

17.4 Body-Worn Accessory Exposure Conditions

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	0.685	1.056	0.465	1.056
Back	1.296	1.296	0.871	1.296

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front	0.016	0.356	0.359	0.390	0.390
Back	0.891	0.891	0.875	0.892	0.892

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

NO	1	2	3	4	5	2+4 Summed 1g SAR (W/kg)	2+5 Summed 1g SAR (W/kg)	WLAN+BT worse case Summed 1g SAR (W/kg)
Test Position	WLAN2.4GHz Ant6+8 1g SAR (W/kg)	WLAN5GHz Ant5+8 1g SAR (W/kg)	WLAN6GHz Ant5+8 1g SAR (W/kg)	BT Ant6 1g SAR (W/kg)	BT Ant8 1g SAR (W/kg)			
Front	0.180	0.245	0.096	0.139	0.131	0.384	0.376	0.384
Back	0.380	0.392	0.371	0.259	0.253	0.651	0.645	0.651

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG1	AG0	WLAN/BT worst case	AG0+AG1+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.390	1.056	0.384	1.83
Back	0.892	1.296	0.651	2.84

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Front					
Ant combination	AG0	AG1	WLAN/BT worst case	AG0+AG1+WLAN +BT worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	0.685	0.016	0.384	1.09	-
Ant0-Ant4	0.685	0.356	0.384	1.43	-
Ant0-Ant5	0.685	0.359	0.384	1.43	-
Ant0-Ant7	0.685	0.390	0.384	1.46	-
Ant1-Ant3	1.056	0.016	0.384	1.46	-
Ant1-Ant4	1.056	0.356	0.384	1.80	Case 1
Ant1-Ant5	1.056	0.359	0.384	1.80	Case 2
Ant1-Ant7	1.056	0.390	0.384	1.83	Case 3
Ant9-Ant3	0.465	0.016	0.384	0.87	-
Ant9-Ant4	0.465	0.356	0.384	1.21	-
Ant9-Ant5	0.465	0.359	0.384	1.21	-
Ant9-Ant7	0.465	0.390	0.384	1.24	-

Back					
Ant combination	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	1.296	0.891	0.651	2.84	Case 4
Ant0-Ant4	1.296	0.891	0.651	2.84	Case 5
Ant0-Ant5	1.296	0.875	0.651	2.82	Case 6
Ant0-Ant7	1.296	0.892	0.651	2.84	Case 7
Ant1-Ant3	1.296	0.891	0.651	2.84	Case 8
Ant1-Ant4	1.296	0.891	0.651	2.84	Case 9
Ant1-Ant5	1.296	0.875	0.651	2.82	Case 10
Ant1-Ant7	1.296	0.892	0.651	2.84	Case 11
Ant9-Ant3	0.871	0.891	0.651	2.41	Case 12
Ant9-Ant4	0.871	0.891	0.651	2.41	Case 13
Ant9-Ant5	0.871	0.875	0.651	2.40	Case 14
Ant9-Ant7	0.871	0.892	0.651	2.41	Case 15

<Sensor off>

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT:
<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front	0.303	0.331	0.115	0.331
Back	0.376	0.386	0.144	0.386

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front	0.052	0.299	0.228	0.081	0.299
Back	0.233	0.654	0.500	0.146	0.654

<WLAN2.4GHz/5GHz/6GHz/BT Worse-case SAR

NO	1	2	3	WLAN/BT worse case Summed 1g SAR (W/kg)
Test Position	WLAN2.4GHz Ant6+8 1g SAR (W/kg)	WLAN5GHz Ant5+8 1g SAR (W/kg)	WLAN6GHz Ant5+8 1g SAR (W/kg)	
Front	0.189	0.327	0.065	0.327
Back	0.269	0.791	0.202	0.791

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case>:

Test Position	AG1	AG0	WLAN/BT worst case	AG1+AG0+WLAN +BT worse case
	1g SAR (W/kg)	1g SAR (W/kg)	Summed 1g SAR (W/kg)	Summed 1g SAR (W/kg)
Front	0.299	0.331	0.327	0.96
Back	0.654	0.386	0.791	1.83

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Back					
Ant combination	AG0	AG1	WLAN/BT worst case	AG1+AG0+WLAN +BT worst case	Note
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
Ant0-Ant3	0.376	0.233	0.791	1.40	-
Ant0-Ant4	0.376	0.654	0.791	1.82	Case 3
Ant0-Ant5	0.376	0.500	0.791	1.67	Case 4
Ant0-Ant7	0.376	0.146	0.791	1.31	-
Ant1-Ant3	0.386	0.233	0.791	1.41	-
Ant1-Ant4	0.386	0.654	0.791	1.83	Case 1
Ant1-Ant5	0.386	0.500	0.791	1.68	Case 2
Ant1-Ant7	0.386	0.146	0.791	1.32	-
Ant9-Ant3	0.144	0.233	0.791	1.17	-
Ant9-Ant4	0.144	0.654	0.791	1.59	-
Ant9-Ant5	0.144	0.500	0.791	1.44	-
Ant9-Ant7	0.144	0.146	0.791	1.08	-

17.5 Product specific 10g SAR Exposure Conditions

Remark:

- For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:
<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	Ant9	MAX
Front		3.103		3.103
Back	2.513	3.207	1.784	3.207
Left Side				0.000
Right Side			2.101	2.101
Top Side				0.000
Bottom Side		3.378		3.378

<AG1 maximum reported SAR>:

Test Position	Ant3	Ant4	Ant5	Ant7	MAX
Front					0.000
Back	2.446	2.481	1.165		2.481
Left Side					0.000
Right Side				2.466	2.466
Top Side		2.559	2.551		2.559
Bottom Side					0.000

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>

NO	1	2	3	WLAN/BT worse case Summed 10g SAR (W/kg)
Test Position	WLAN2.4GHz Ant6+8	WLAN5GHz Ant5+8	WLAN6GHz Ant5+8	
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Front		0.433	0.232	0.433
Back	0.496	0.256	0.186	0.496
Left Side				0.000
Right Side	0.955	0.603	0.294	0.955
Top Side		0.995	0.662	0.995
Bottom Side				0.000

<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case+NFC>:

Test Position	AG1	AG0	WLAN/BT worse case	NFC	AG0+AG1+WLAN +BT worse case+NFC
	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)
Front	0.000	3.103	0.433	0.002	3.54
Back	2.481	3.207	0.496	0.021	6.21
Left Side	0.000	0.000	0.000	0.001	0.00
Right Side	2.466	2.101	0.955	0.001	5.52
Top Side	2.559	0.000	0.995	0.001	3.56
Bottom Side	0.000	3.378	0.000	0.001	3.38

Note: The results marked yellow in above table refers to the detailed analysis corresponding to each position below tables.

Back						
Ant combination	AG0	AG1	WLAN+BT worse case	NFC	AG0+AG1+WLAN +BT worse case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant3	2.513	2.446	0.496	0.021	5.48	Case 1
Ant0-Ant4	2.513	2.481	0.496	0.021	5.51	Case 2
Ant0-Ant5	2.513	1.165	0.496	0.021	4.20	Case 3
Ant0-Ant7	2.513		0.496	0.021	3.03	-
Ant1-Ant3	3.207	2.446	0.496	0.021	6.17	Case 4
Ant1-Ant4	3.207	2.481	0.496	0.021	6.21	Case 5
Ant1-Ant5	3.207	1.165	0.496	0.021	4.89	Case 6
Ant1-Ant7	3.207		0.496	0.021	3.72	-
Ant9-Ant3	1.784	2.446	0.496	0.021	4.75	Case 7
Ant9-Ant4	1.784	2.481	0.496	0.021	4.78	Case 8
Ant9-Ant5	1.784	1.165	0.496	0.021	3.47	-
Ant9-Ant7	1.784		0.496	0.021	2.30	-

Right Side						
Ant combination	AG0	AG1	WLAN+BT worse case	NFC	AG1+AG0+WLAN +BT worse case+NFC	Note
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Ant0-Ant3			0.955	0.001	0.96	-
Ant0-Ant4			0.955	0.001	0.96	-
Ant0-Ant5			0.955	0.001	0.96	-
Ant0-Ant7		2.466	0.955	0.001	3.42	-
Ant1-Ant3			0.955	0.001	0.96	-
Ant1-Ant4			0.955	0.001	0.96	-
Ant1-Ant5			0.955	0.001	0.96	-
Ant1-Ant7		2.466	0.955	0.001	3.42	-
Ant9-Ant3	2.101		0.955	0.001	3.06	-
Ant9-Ant4	2.101		0.955	0.001	3.06	-
Ant9-Ant5	2.101		0.955	0.001	3.06	-
Ant9-Ant7	2.101	2.466	0.955	0.001	5.52	Case 9

<Sensor off>

General Note: The unit of SAR evaluation is W/kg.

Simultaneous Transmission Evaluation of WWAN+WLAN+BT+NFC:

<AG0 maximum reported SAR>:

Test Position	Ant0	Ant1	MAX
Back	2.513	0.881	2.513

<AG1 maximum reported SAR>:

Test Position	Ant4	Ant5	MAX
Back	0.345	0.288	0.345

<WLAN2.4GHz/5GHz/6GHz+BT Worse-case SAR>:

NO	1	2	3	WLAN/BT worse case
Test Position	WLAN2.4GHz Ant6+8	WLAN5GHz Ant5+8	WLAN6GHz Ant5+8	Summed 10g SAR (W/kg)
	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	
Back	0.528	0.693	0.286	0.693

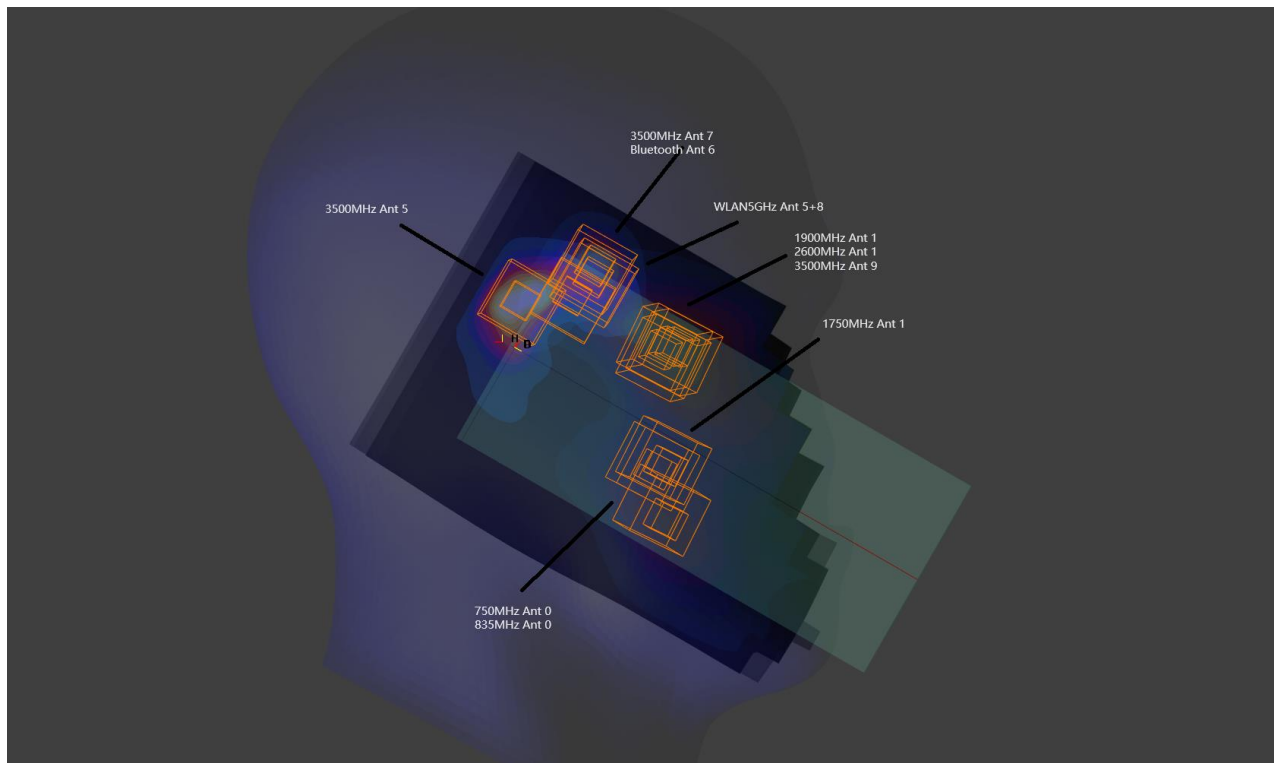
<Simultaneous Transmission analysis of AG0 + AG1 + WLAN+BT Worse-case+NFC>:

Test Position	AG1	AG0	Wlan/BT worst case	AG0+AG1+WLAN +BT worse case
	10g SAR (W/kg)	10g SAR (W/kg)	Summed 10g SAR (W/kg)	Summed 10g SAR (W/kg)
Back	0.345	2.513	0.693	3.55

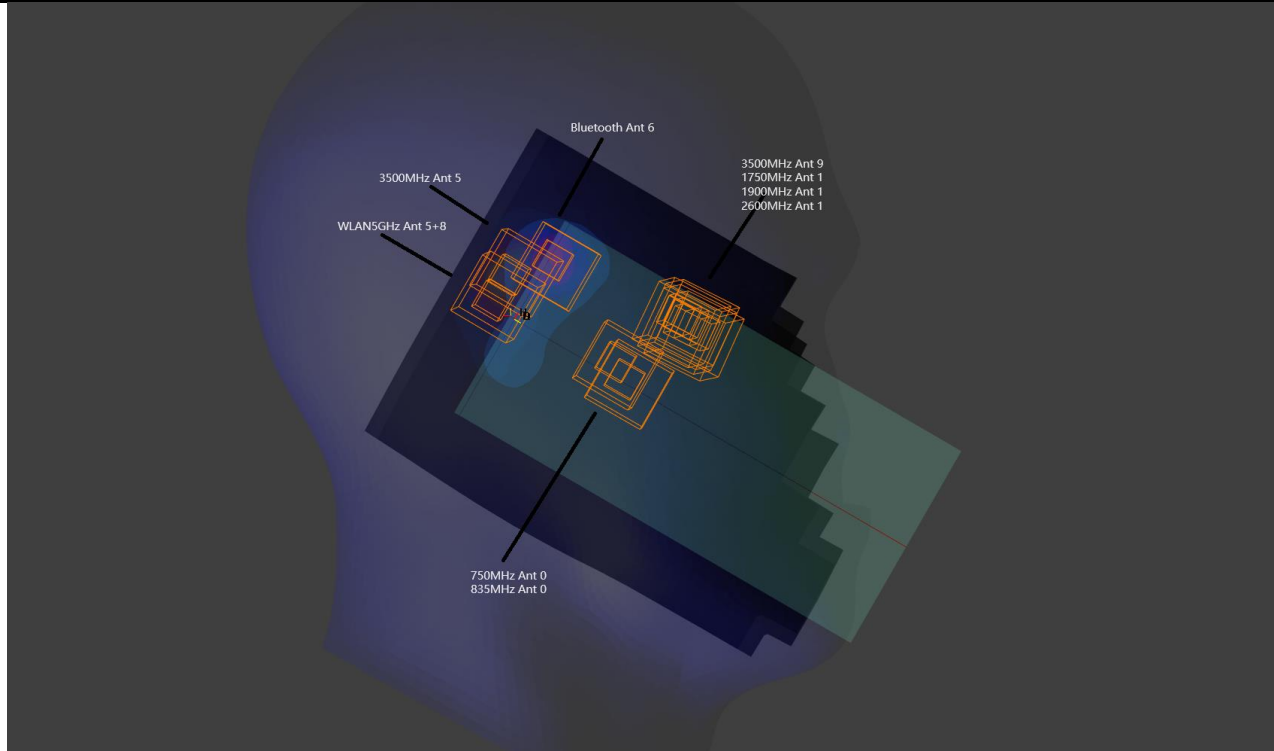
17.6 SPLSR Evaluation and Analysis

General Note:

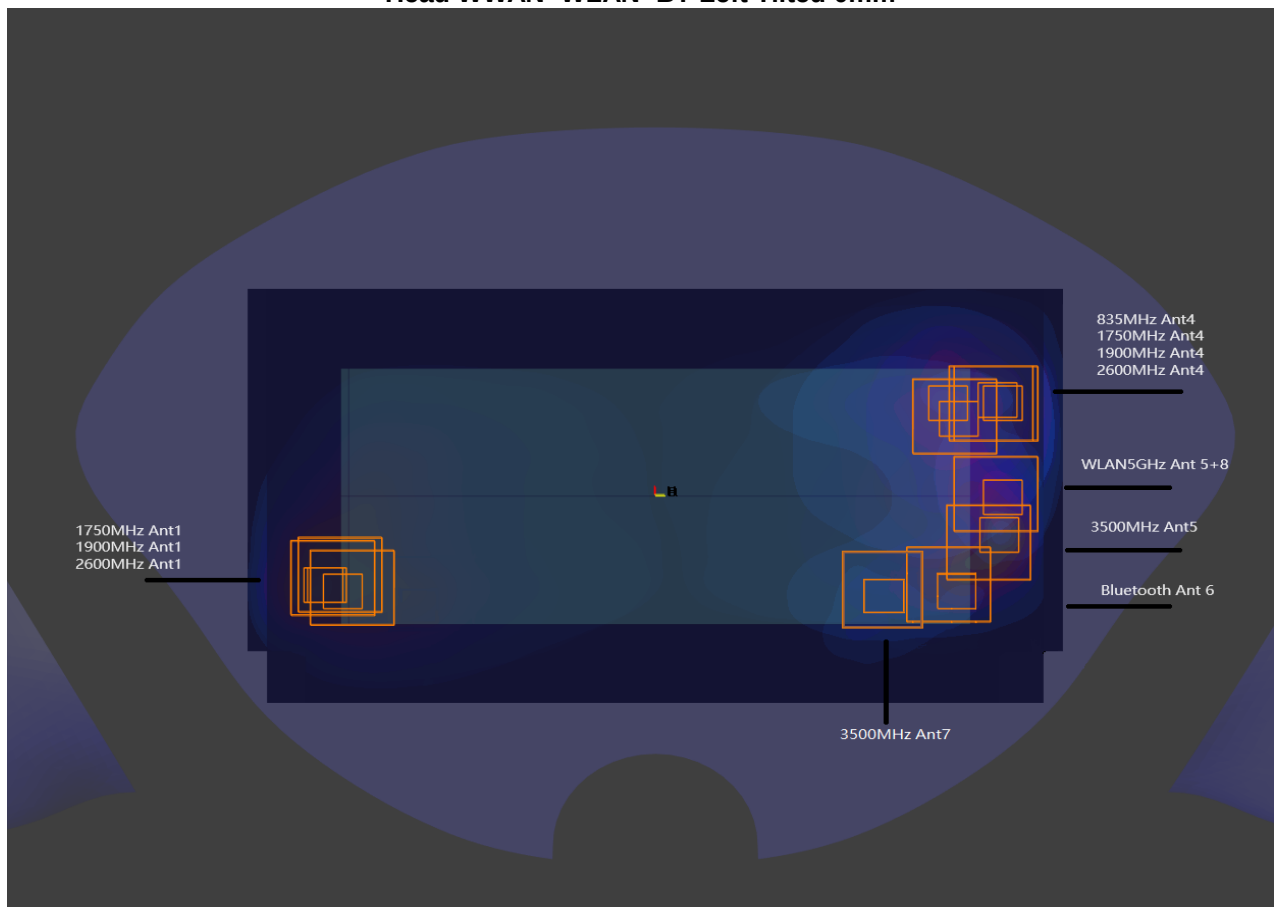
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR_1 + SAR_2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WWAN ant5/BT Antenna 6/8 was summed algebraically with the AG1 for the purposes of hybrid SPLSR combination and they are located at the top of the device
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.
5. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.
6. The axis peak locations refer to Section 17.7.



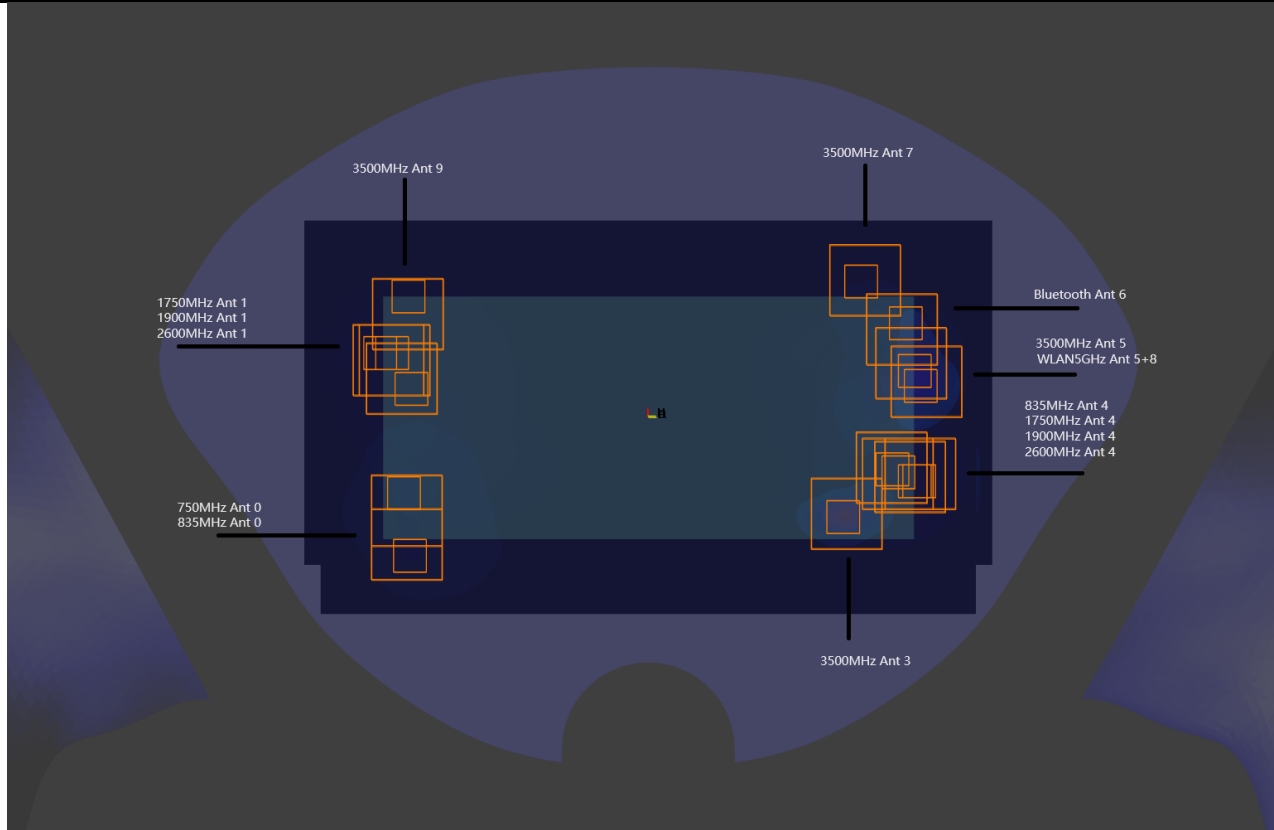
Head WWAN+WLAN+BT Left Cheek 0mm



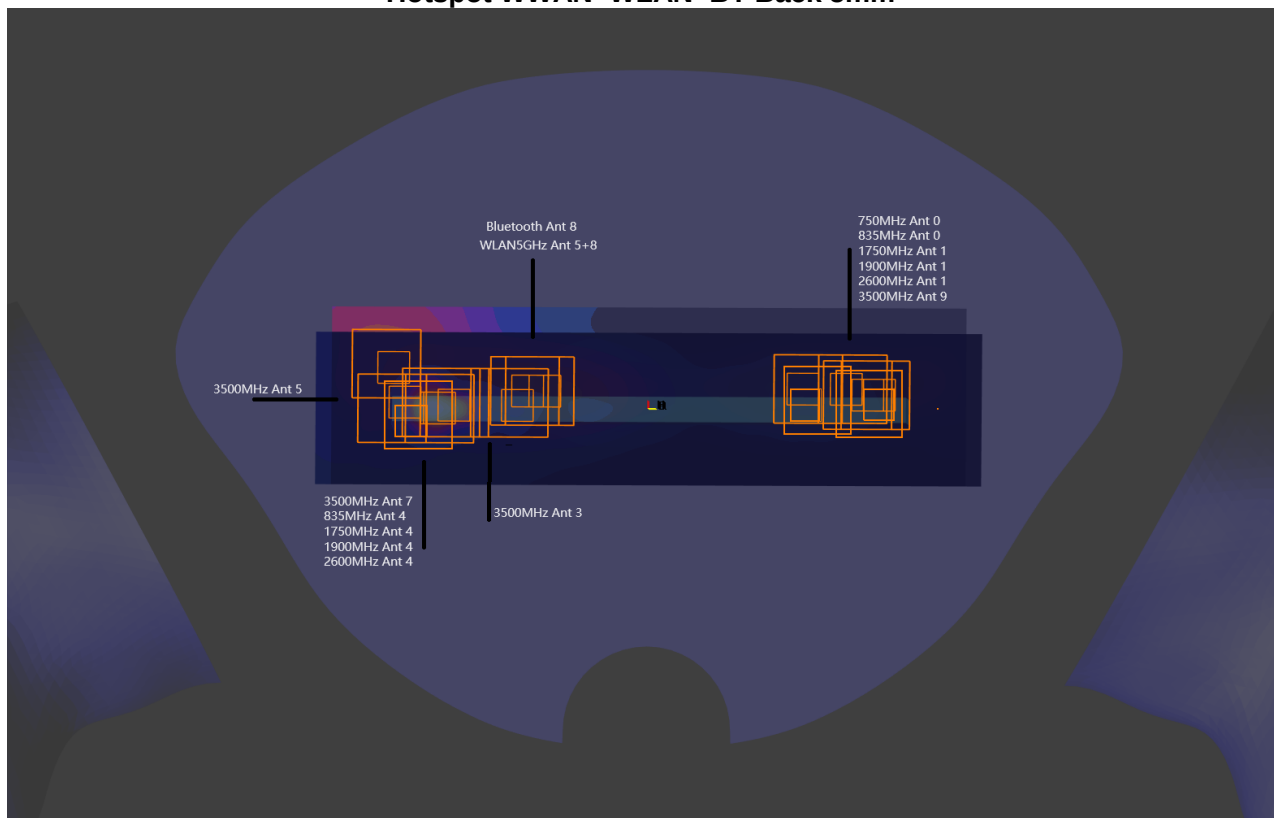
Head WWAN+WLAN+BT Left Tilted 0mm



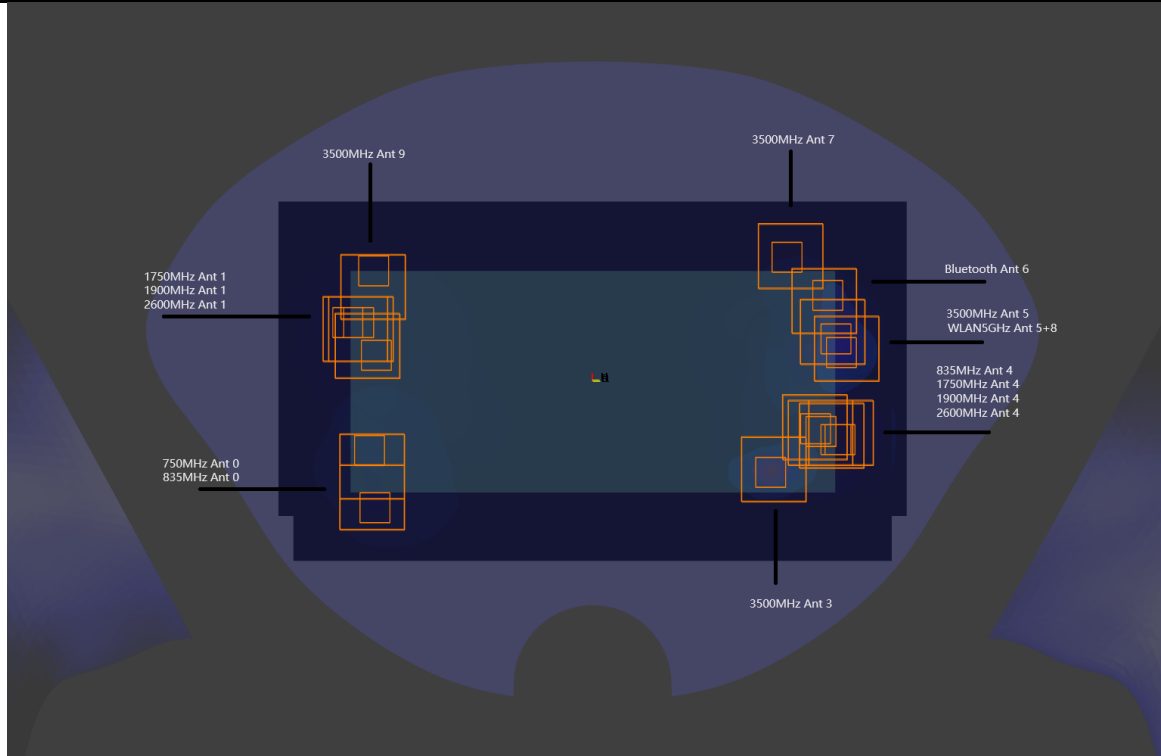
Hotspot WWAN+WLAN+BT Front 5mm



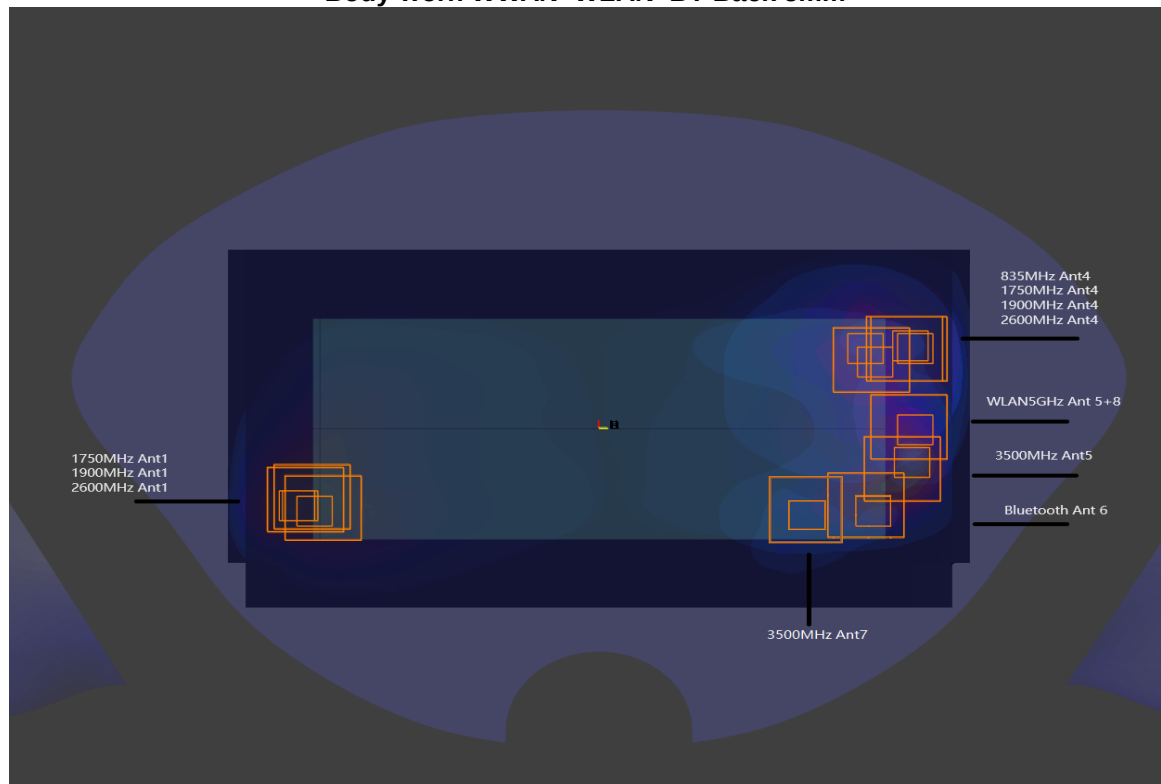
Hotspot WWAN+WLAN+BT Back 5mm



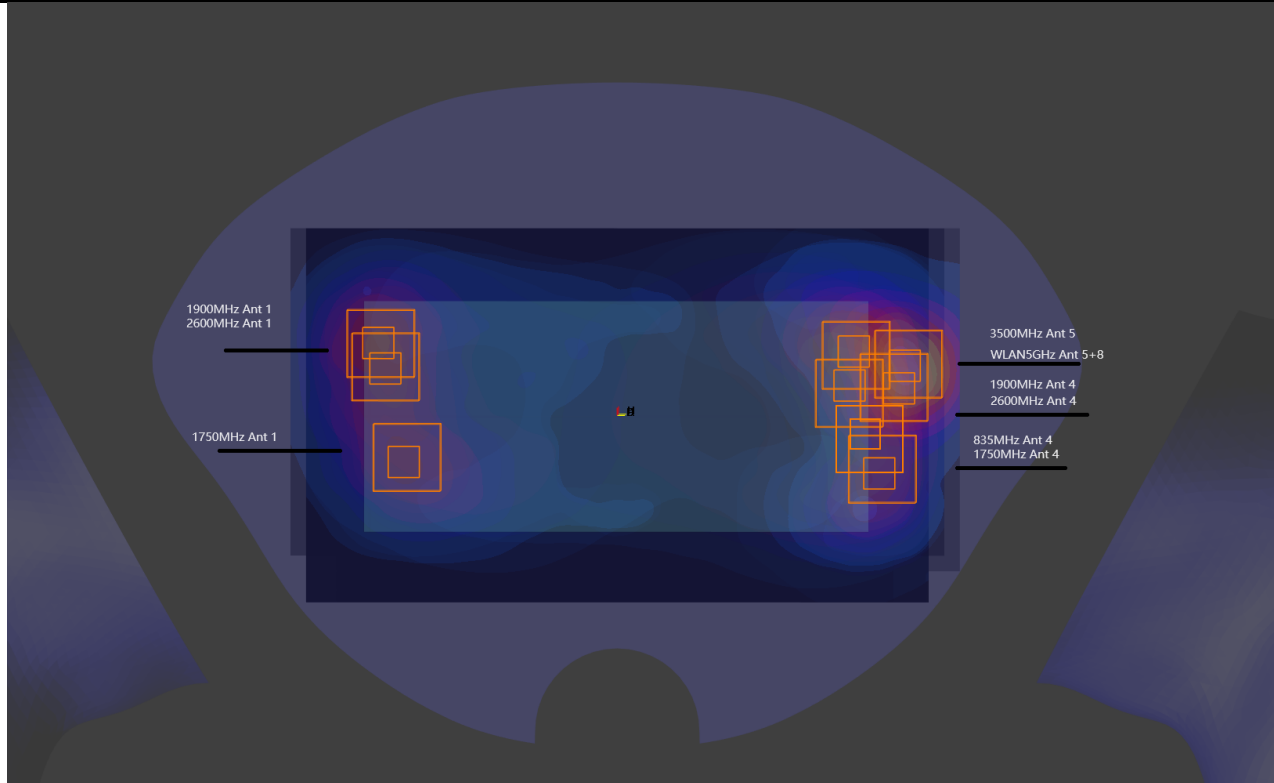
Hotspot WWAN+WLAN+BT Right Side 5mm



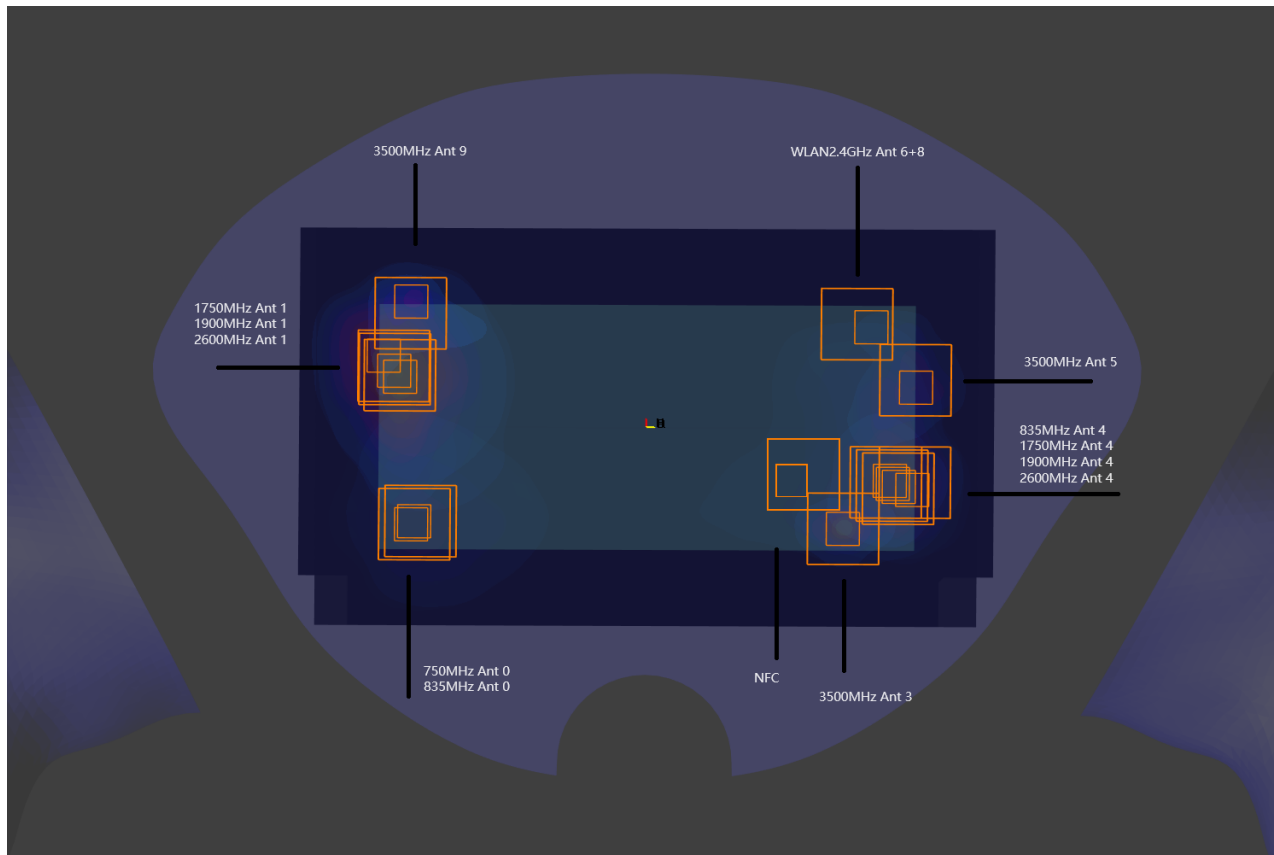
Body-worn WWAN+WLAN+BT Back 5mm



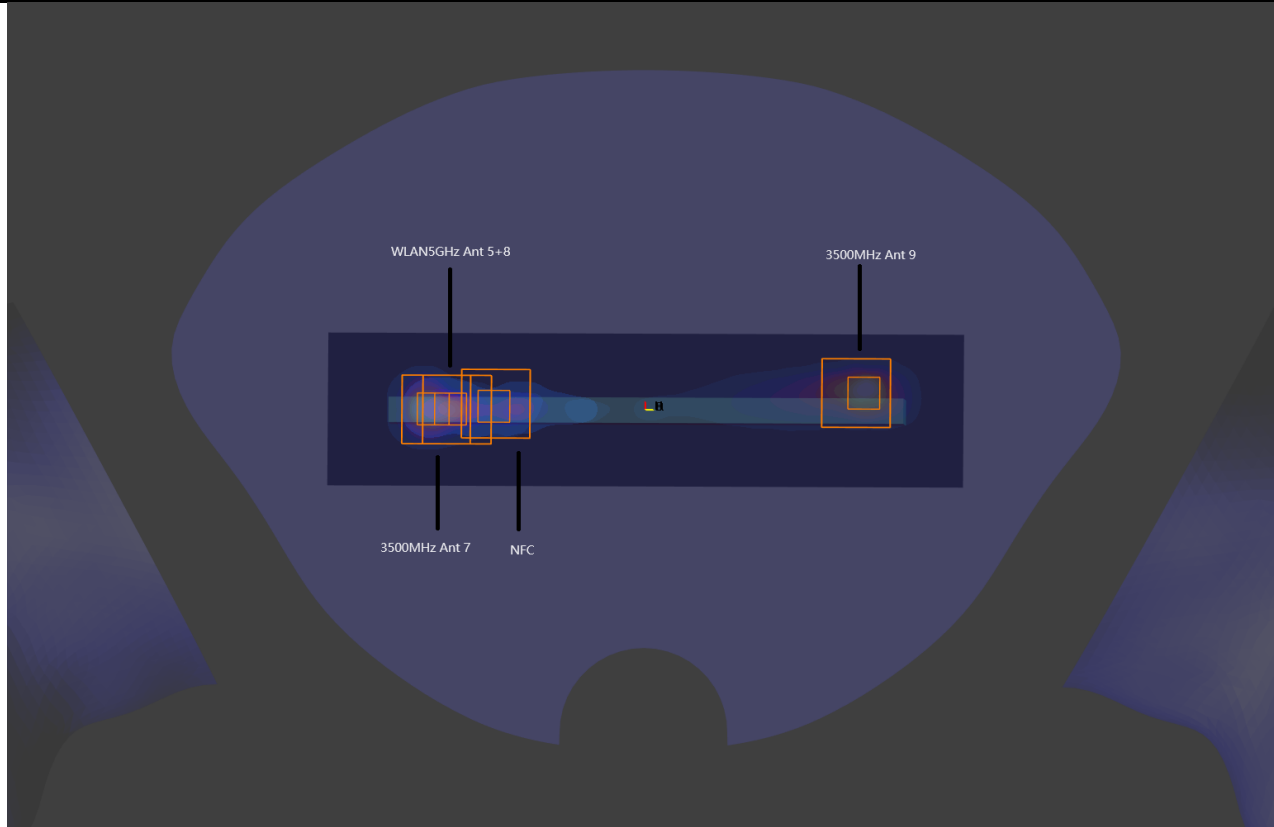
Body-worn WWAN+WLAN+BT Front 5mm



Body-worn WWAN+WLAN Back 18mm



Extremity WWAN+WLAN+NFC Back 0mm



Extremity WWAN+WLAN+NFC Right Side 0mm

<Head>

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	81.2	1.67	0.03	Not required
Ant 5		0.757	1.403	0mm	13.6	325.3	-171.1				
WLAN 5G		0.393		0mm							
BT		0.253		0mm							
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	67.3	1.67	0.03	Not required
Ant 5		0.757	1.403	0mm							
WLAN 5G		0.393		0mm	49.6	324.6	-171.5				
BT		0.253		0mm							
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	76.7	1.67	0.03	Not required
Ant 5		0.757	1.403	0mm							
WLAN 5G		0.393		0mm							
BT		0.253		0mm	26.1	327.2	-171.8				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	83.1	1.81	0.03	Not required
Ant 7		0.890	1.536	0mm	34	337.2	-171.1				
WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm							
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	67.3	1.81	0.04	Not required
Ant 7		0.890	1.536	0mm							
WLAN 5G		0.393		0mm	49.6	324.6	-171.5				
BT Ant 6		0.253		0mm							
Ant 0	Left Cheek	0.270	0.270	0mm	58.9	257.9	-171.9	76.7	1.81	0.03	Not required
Ant 7		0.890	1.536	0mm							
WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm	26.1	327.2	-171.8				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Left Cheek	0.183	0.183	0mm	60.8	258.5	-171.3	83.1	1.72	0.03	Not required
Ant 7		0.890	1.536	0mm	34	337.2	-171.1				
WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm							
Ant 1	Left Cheek	0.183	0.183	0mm	60.8	258.5	-171.3	67.0	1.72	0.03	Not required
Ant 7		0.890	1.536	0mm							
WLAN 5G		0.393		0mm	49.6	324.6	-171.5				
BT Ant 6		0.253		0mm							
Ant 1	Left Cheek	0.183	0.183	0mm	60.8	258.5	-171.3	77.0	1.72	0.03	Not required
Ant 7		0.890	1.536	0mm							
WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm	26.1	327.2	-171.8				
No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Left Cheek	0.131	0.131	0mm	60.9	263.1	-171.7	78.8	1.67	0.03	Not required
Ant 7		0.890	1.536	0mm	34	337.2	-171.1				
WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm							
Ant 9	Left Cheek	0.131	0.131	0mm	60.9	263.1	-171.7	62.5	1.67	0.03	Not required
Ant 7		0.890	1.536	0mm							
WLAN 5G		0.393		0mm	49.6	324.6	-171.5				
BT Ant 6		0.253		0mm							
Ant 9	Left Cheek	0.131	0.131	0mm	60.9	263.1	-171.7	72.9	1.67	0.03	Not required
Ant 7		0.890	1.536	0mm							



WLAN 5G		0.393		0mm							
BT Ant 6		0.253		0mm	26.1	327.2	-171.8				

No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Left Tilted	0.162	0.162	0mm	38.5	273.3	-173.3	58.5	1.67	0.04	Not required
Ant 5		0.892	1.504	0mm	12.8	325.8	-171				
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm							
Ant 0	Left Tilted	0.162	0.162	0mm	38.5	273.3	-173.3	65.8	1.67	0.03	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm	-1	325.8	-169.2				
BT Ant 6		0.231		0mm							
Ant 0	Left Tilted	0.162	0.162	0mm	38.5	273.3	-173.3	60.3	1.67	0.04	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm	20.1	330.7	-171.3				
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Left Tilted	0.120	0.120	0mm	12.8	268.9	-170.8	55.3	1.62	0.04	Not required
Ant 5		0.892	1.504	0mm	3.4	323.4	-170				
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm							
Ant 1	Left Tilted	0.120	0.120	0mm	12.8	268.9	-170.8	58.6	1.62	0.04	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm	-1	325.8	-169.2				
BT Ant 6		0.231		0mm							
Ant 1	Left Tilted	0.120	0.120	0mm	12.8	268.9	-170.8	62.2	1.62	0.03	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm	20.1	330.7	-171.3				
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Left Tilted	0.188	0.188	0mm	24.5	270.4	-171.6	56.6	1.69	0.04	Not required
Ant 5		0.892	1.504	0mm	12.8	325.8	-171				
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm							
Ant 9	Left Tilted	0.188	0.188	0mm	24.5	270.4	-171.6	61.0	1.69	0.04	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm	-1	325.8	-169.2				
BT Ant 6		0.231		0mm							
Ant 9	Left Tilted	0.188	0.188	0mm	24.5	270.4	-171.6	60.5	1.69	0.04	Not required
Ant 5		0.892	1.504	0mm							
WLAN 5G		0.381		0mm							
BT Ant 6		0.231		0mm	20.1	330.7	-171.3				



<Hotspot>

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	162.4	1.73	0.01	Not required
Ant 4		0.250	0.688	5mm	-52.5	74.2	-204				
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	169.7	1.73	0.01	Not required
Ant 4		0.250	0.688	5mm							
WLAN 5G		0.299		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	156.4	1.73	0.01	Not required
Ant 4		0.250	0.688	5mm							
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm	3	78	-204				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	168.4	1.67	0.01	Not required
Ant 5		0.188	0.626	5mm	-15	89	-204				
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	169.7	1.67	0.01	Not required
Ant 5		0.188	0.626	5mm							
WLAN 5G		0.299		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	156.4	1.67	0.01	Not required
Ant 5		0.188	0.626	5mm							
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm	3	78	-204				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	149.6	1.68	0.01	Not required
Ant 7		0.196	0.634	5mm	10	71	-204				
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	169.7	1.68	0.01	Not required
Ant 7		0.196	0.634	5mm							
WLAN 5G		0.299		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.041	1.041	5mm	3.1	-78.4	-204	156.4	1.68	0.01	Not required
Ant 7		0.196	0.634	5mm							
WLAN 5G		0.299		5mm							
BT Ant 6		0.139		5mm	3	78	-204				



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No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.446	5mm	-5	-73	-204	133.4	2.74	0.03	Not required
Ant 3		0.627		5mm	5	60	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.446	5mm	-5	-73	-204	158.9	2.74	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.446	5mm	-5	-73	-204	159.7	2.74	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.449	5mm	-5	-73	-204	146.1	2.75	0.03	Not required
Ant 4		0.630		5mm	-10.5	73	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.449	5mm	-5	-73	-204	158.9	2.75	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.449	5mm	-5	-73	-204	159.7	2.75	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.465	5mm	-5	-73	-204	156.5	2.76	0.03	Not required
Ant 5		0.646		5mm	-38	80	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.465	5mm	-5	-73	-204	158.9	2.76	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.465	5mm	-5	-73	-204	159.7	2.76	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.266	5mm	-5	-73	-204	147.7	2.56	0.03	Not required
Ant 7		0.447		5mm	-65	62	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.266	5mm	-5	-73	-204	158.9	2.56	0.03	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 0	Back	1.296	1.266	5mm	-5	-73	-204	159.7	2.56	0.03	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				



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No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.247	1.446	5mm	-34.5	-70.6	-204	136.4	2.69	0.03	Not required
Ant 3		0.627		5mm	5	60	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.446	5mm	-34.5	-70.6	-204	153.6	2.69	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.446	5mm	-34.5	-70.6	-204	150.9	2.69	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.9 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.247	1.449	5mm	-34.5	-70.6	-204	145.6	2.70	0.03	Not required
Ant 4		0.630		5mm	-10.5	73	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.449	5mm	-34.5	-70.6	-204	153.6	2.70	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.449	5mm	-34.5	-70.6	-204	150.9	2.70	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.247	1.465	5mm	-34.5	-70.6	-204	150.6	2.71	0.03	Not required
Ant 5		0.646		5mm	-38	80	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.465	5mm	-34.5	-70.6	-204	153.6	2.71	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.465	5mm	-34.5	-70.6	-204	150.9	2.71	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.11 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.247	1.266	5mm	-34.5	-70.6	-204	136.1	2.51	0.03	Not required
Ant 7		0.447		5mm	-65	62	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.266	5mm	-34.5	-70.6	-204	153.6	2.51	0.03	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 1	Back	1.247	1.266	5mm	-34.5	-70.6	-204	150.9	2.51	0.03	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				



No.12 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.137	1.446	5mm	-63	-71	-204	147.6	2.58	0.03	Not required
Ant 3		0.627		5mm	5	60	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.446	5mm	-63	-71	-204	156.5	2.58	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.446	5mm	-63	-71	-204	150.3	2.58	0.03	Not required
Ant 3		0.627		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.13 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.137	1.449	5mm	-63	-71	-204	153.3	2.59	0.03	Not required
Ant 4		0.630		5mm	-10.5	73	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.449	5mm	-63	-71	-204	156.5	2.59	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.449	5mm	-63	-71	-204	150.3	2.59	0.03	Not required
Ant 4		0.630		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.14 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.137	1.465	5mm	-63	-71	-204	153.1	2.60	0.03	Not required
Ant 5		0.646		5mm	-38	80	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.465	5mm	-63	-71	-204	156.5	2.60	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.465	5mm	-63	-71	-204	150.3	2.60	0.03	Not required
Ant 5		0.646		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				
No.15 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.137	1.266	5mm	-63	-71	-204	133.0	2.40	0.03	Not required
Ant 7		0.447		5mm	-65	62	-204				
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.266	5mm	-63	-71	-204	156.5	2.40	0.02	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm	-35	83	-204				
BT Ant 6		0.286		5mm							
Ant 9	Back	1.137	1.266	5mm	-63	-71	-204	150.3	2.40	0.02	Not required
Ant 7		0.447		5mm							
WLAN 5G		0.533		5mm							
BT Ant 6		0.286		5mm	-54	79	-204				

No.16 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Right Side	0.231	1.451	5mm	-31.4	22.8	-204	92.0	1.68	0.02	Not required
Ant 7		0.627		5mm	-25	-69	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 0	Right Side	0.231	1.451	5mm	-31.4	22.8	-204	84.0	1.68	0.03	Not required
Ant 7		0.627		5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 0	Right Side	0.231	1.451	5mm	-31.4	22.8	-204	68.0	1.68	0.03	Not required
Ant 7		0.627		5mm							
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm	-25.8	-45	-204				
No.17 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Right Side	0.269	1.451	5mm	-32	50.2	-204	119.4	1.72	0.02	Not required
Ant 7		0.627		5mm	-25	-69	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 1	Right Side	0.269	1.451	5mm	-32	50.2	-204	111.4	1.72	0.02	Not required
Ant 7		0.627		5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 1	Right Side	0.269	1.451	5mm	-32	50.2	-204	95.4	1.72	0.02	Not required
Ant 7		0.627		5mm							
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm	-25.8	-45	-204				
No.18 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.274	0.824	5mm	-32.2	69	-204	143.1	2.10	0.02	Not required
Ant 3		0.000		5mm	-27.4	-74	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	0.824	5mm	-32.2	69	-204	130.2	2.10	0.02	Not required
Ant 3		0.000		5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	0.824	5mm	-32.2	69	-204	114.2	2.10	0.03	Not required
Ant 3		0.000		5mm							
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm	-25.8	-45	-204				
No.19 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.274	0.900	5mm	-32.2	69	-204	94.5	2.17	0.03	Not required
Ant 4		0.076		5mm	-29.8	-25.5	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	0.900	5mm	-32.2	69	-204	130.2	2.17	0.02	Not required
Ant 4		0.076		5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	0.900	5mm	-32.2	69	-204	114.2	2.17	0.03	Not required
Ant 4		0.076		5mm							
WLAN 5G		0.565		5mm							



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BT Ant 8		0.259		5mm	-25.8	-45	-204				
No.20 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	133.2	2.18	0.02	Not required
Ant 5		0.084	0.908	5mm	-25	-64	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	130.2	2.18	0.02	Not required
Ant 5		0.084	0.908	5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	114.2	2.18	0.03	Not required
Ant 5		0.084	0.908	5mm							
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm	-25.8	-45	-204				
No.21 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	138.2	2.73	0.03	Not required
Ant 7		0.627	1.451	5mm	-25	-69	-204				
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	130.2	2.73	0.03	Not required
Ant 7		0.627	1.451	5mm							
WLAN 5G		0.565		5mm	-25.8	-61	-204				
BT Ant 8		0.259		5mm							
Ant 9	Right Side	1.274	1.274	5mm	-32.2	69	-204	114.2	2.73	0.04	Not required
Ant 7		0.627	1.451	5mm							
WLAN 5G		0.565		5mm							
BT Ant 8		0.259		5mm	-25.8	-45	-204				



<Body-worn>

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	162.4	1.80	0.01	Not required
Ant 4		0.356	0.740	5mm	-52.5	74.2	-204				
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	169.7	1.80	0.01	Not required
Ant 4		0.356	0.740	5mm							
WLAN 5G		0.245		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	156.4	1.80	0.02	Not required
Ant 4		0.356	0.740	5mm							
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm	3	78	-204				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	168.4	1.80	0.01	Not required
Ant 5		0.359	0.743	5mm	-15	89	-204				
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	169.7	1.80	0.01	Not required
Ant 5		0.359	0.743	5mm							
WLAN 5G		0.245		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	156.4	1.80	0.02	Not required
Ant 5		0.359	0.743	5mm							
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm	3	78	-204				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	149.6	1.83	0.02	Not required
Ant 7		0.390	0.774	5mm	10	71	-204				
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	169.7	1.83	0.01	Not required
Ant 7		0.390	0.774	5mm							
WLAN 5G		0.245		5mm	-25	89	-204				
BT Ant 6		0.139		5mm							
Ant 1	Front	1.056	1.056	5mm	3.1	-78.4	-204	156.4	1.83	0.02	Not required
Ant 7		0.390	0.774	5mm							
WLAN 5G		0.245		5mm							
BT Ant 6		0.139		5mm	3	78	-204				



No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	133.4	2.84	0.04	Not required
Ant 3		0.891		5mm	5	60	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	158.9	2.84	0.03	Not required
Ant 3		0.891		5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	159.7	2.84	0.03	Not required
Ant 3		0.891		5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.5 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	146.1	2.84	0.03	Not required
Ant 4		0.891		5mm	-10.5	73	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	158.9	2.84	0.03	Not required
Ant 4		0.891		5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.542	5mm	-5	-73	-204	159.7	2.84	0.03	Not required
Ant 4		0.891		5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.6 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.526	5mm	-5	-73	-204	156.5	2.82	0.03	Not required
Ant 5		0.875		5mm	-38	80	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.526	5mm	-5	-73	-204	158.9	2.82	0.03	Not required
Ant 5		0.875		5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.526	5mm	-5	-73	-204	159.7	2.82	0.03	Not required
Ant 5		0.875		5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.7 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	1.296	1.543	5mm	-5	-73	-204	147.7	2.84	0.03	Not required
Ant 7		0.892		5mm	-65	62	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.543	5mm	-5	-73	-204	158.9	2.84	0.03	Not required
Ant 7		0.892		5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 0	Back	1.296	1.543	5mm	-5	-73	-204	159.7	2.84	0.03	Not required
Ant 7		0.892		5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				



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No.8 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	136.4	2.84	0.04	Not required
Ant 3		0.891	1.542	5mm	5	60	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	153.6	2.84	0.03	Not required
Ant 3		0.891	1.542	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	150.9	2.84	0.03	Not required
Ant 3		0.891	1.542	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.9 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	145.6	2.84	0.03	Not required
Ant 4		0.891	1.542	5mm	-10.5	73	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	153.6	2.84	0.03	Not required
Ant 4		0.891	1.542	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	150.9	2.84	0.03	Not required
Ant 4		0.891	1.542	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.10 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	150.6	2.82	0.03	Not required
Ant 5		0.875	1.526	5mm	-38	80	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	153.6	2.82	0.03	Not required
Ant 5		0.875	1.526	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	150.9	2.82	0.03	Not required
Ant 5		0.875	1.526	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.11 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	136.1	2.84	0.04	Not required
Ant 7		0.892	1.543	5mm	-65	62	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	153.6	2.84	0.03	Not required
Ant 7		0.892	1.543	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 1	Back	1.296	1.296	5mm	-34.5	-70.6	-204	150.9	2.84	0.03	Not required
Ant 7		0.892	1.543	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.12 Band	Position	SAR 1g	Summed	Gap	SAR peak location (mm)			3D	Summed	SPLSR	Simultaneous



		SAR (W/kg)			X	Y	Z	distance (mm)	SAR (W/kg)		
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	147.6	2.41	0.03	Not required
Ant 3		0.891	1.542	5mm	5	60	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	156.5	2.41	0.02	Not required
Ant 3		0.891	1.542	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	150.3	2.41	0.02	Not required
Ant 3		0.891	1.542	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.13 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	153.3	2.41	0.02	Not required
Ant 4		0.891	1.542	5mm	-10.5	73	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	156.5	2.41	0.02	Not required
Ant 4		0.891	1.542	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	150.3	2.41	0.02	Not required
Ant 4		0.891	1.542	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.14 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	153.1	2.40	0.02	Not required
Ant 5		0.875	1.526	5mm	-38	80	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	156.5	2.40	0.02	Not required
Ant 5		0.875	1.526	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	150.3	2.40	0.02	Not required
Ant 5		0.875	1.526	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				
No.15 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	133.0	2.41	0.03	Not required
Ant 7		0.892	1.543	5mm	-65	62	-204				
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	156.5	2.41	0.02	Not required
Ant 7		0.892	1.543	5mm							
WLAN 5G		0.392		5mm	-35	83	-204				
BT Ant 6		0.259		5mm							
Ant 9	Back	0.871	0.871	5mm	-63	-71	-204	150.3	2.41	0.03	Not required
Ant 7		0.892	1.543	5mm							
WLAN 5G		0.392		5mm							
BT Ant 6		0.259		5mm	-54	79	-204				

Sensor Off

No.1 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.386	0.386	18mm	-8	-69	-204	142.5	1.83	0.02	Not required
Ant 4		0.654	1.445	18mm	-11.5	73.5	-204				
WLAN 5G		0.791		18mm							
Ant 1	Back	0.386	0.386	18mm	-8	-69	-204	161.1	1.83	0.02	Not required
Ant 4		0.654	1.445	18mm							
WLAN 5G		0.791		18mm	-34	90	-204				
No.2 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	0.386	0.386	18mm	-40	-72.5	-204	159.7	1.68	0.01	Not required
Ant 5		0.500	1.291	18mm	-47	87	-204				
WLAN 5G		0.791		18mm							
Ant 1	Back	0.386	0.386	18mm	-40	-72.5	-204	162.6	1.68	0.01	Not required
Ant 5		0.500	1.291	18mm							
WLAN 5G		0.791		18mm	-34	90	-204				
No.3 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	0.376	0.376	18mm	-6.5	-78	-204	151.6	1.82	0.02	Not required
Ant 4		0.654	1.445	18mm	-11.5	73.5	-204				
WLAN 5G		0.791		18mm							
Ant 0	Back	0.376	0.376	18mm	-6.5	-78	-204	170.2	1.82	0.01	Not required
Ant 4		0.654	1.445	18mm							
WLAN 5G		0.791		18mm	-34	90	-204				
No.4 Band	Position	SAR 1g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	0.376	0.376	18mm	-6.5	-78	-204	169.9	1.67	0.01	Not required
Ant 5		0.500	1.291	18mm	-47	87	-204				
WLAN 5G		0.791		18mm							
Ant 0	Back	0.376	0.376	18mm	-6.5	-78	-204	170.2	1.67	0.01	Not required
Ant 5		0.500	1.291	18mm							
WLAN 5G		0.791		18mm	-34	90	-204				

<Extremity>

No.1 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	2.513	2.963	0mm	3.9	-71.6	-204	149.6	5.48	0.09	Not required
Ant 3		2.446		0mm	5	78	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 0	Back	2.513	2.963	0mm	3.9	-71.6	-204	166.4	5.48	0.08	Not required
Ant 3		2.446		0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 0	Back	2.513	2.963	0mm	3.9	-71.6	-204	150.6	5.48	0.09	Not required
Ant 3		2.446		0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.2 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	2.513	2.998	0mm	3.9	-71.6	-204	153.7	5.51	0.08	Not required
Ant 4		2.481		0mm	-10	81.5	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 0	Back	2.513	2.998	0mm	3.9	-71.6	-204	166.4	5.51	0.08	Not required
Ant 4		2.481		0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 0	Back	2.513	2.998	0mm	3.9	-71.6	-204	150.6	5.51	0.09	Not required
Ant 4		2.481		0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.3 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 0	Back	2.513	1.682	0mm	3.9	-71.6	-204	157.3	4.20	0.05	Not required
Ant 5		1.165		0mm	-38	80	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 0	Back	2.513	1.682	0mm	3.9	-71.6	-204	166.4	4.20	0.05	Not required
Ant 5		1.165		0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 0	Back	2.513	1.682	0mm	3.9	-71.6	-204	150.6	4.20	0.06	Not required
Ant 5		1.165		0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.4 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	3.207	2.963	0mm	-35	-71	-204	154.3	6.17	0.10	Not required
Ant 3		2.446		0mm	5	78	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 1	Back	3.207	2.963	0mm	-35	-71	-204	156.3	6.17	0.10	Not required
Ant 3		2.446		0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 1	Back	3.207	2.963	0mm	-35	-71	-204	155.5	6.17	0.10	Not required
Ant 3		2.446		0mm							



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WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.5 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	154.5	6.21	0.10	Not required
Ant 4		2.481	2.998	0mm	-10	81.5	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	156.3	6.21	0.10	Not required
Ant 4		2.481	2.998	0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	155.5	6.21	0.10	Not required
Ant 4		2.481	2.998	0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.6 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	151.0	4.89	0.07	Not required
Ant 5		1.165	1.682	0mm	-38	80	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	156.3	4.89	0.07	Not required
Ant 5		1.165	1.682	0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 1	Back	3.207	3.207	0mm	-35	-71	-204	155.5	4.89	0.07	Not required
Ant 5		1.165	1.682	0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.7 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	163.3	4.75	0.06	Not required
Ant 3		2.446	2.963	0mm	5	78	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	154.3	4.75	0.07	Not required
Ant 3		2.446	2.963	0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	164.6	4.75	0.06	Not required
Ant 3		2.446	2.963	0mm							
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				
No.8 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	160.8	4.78	0.07	Not required
Ant 4		2.481	2.998	0mm	-10	81.5	-204				
WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm							
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	154.3	4.78	0.07	Not required
Ant 4		2.481	2.998	0mm							
WLAN 2.4G		0.496		0mm	-55	84	-204				
NFC		0.021		0mm							
Ant 9	Back	1.784	1.784	0mm	-64	-70	-204	164.6	4.78	0.06	Not required
Ant 4		2.481	2.998	0mm							



WLAN 2.4G		0.496		0mm							
NFC		0.021		0mm	6	79	-204				

No.9 Band	Position	SAR 10g SAR (W/kg)	Summed	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Ant 9	Right Side	2.101	3.422	0mm	-31.4	69	-204	137.1	5.52	0.09	Not required
Ant 7		2.466		0mm	-25	-68	-204				
WLAN 2.4G		0.955		0mm							
NFC		0.001		0mm							
Ant 9	Right Side	2.101	3.422	0mm	-31.4	69	-204	136.1	5.52	0.10	Not required
Ant 7		2.466		0mm							
WLAN 2.4G		0.955		0mm	-25.8	-67	-204				
NFC		0.001		0mm							
Ant 9	Right Side	2.101	3.422	0mm	-31.4	69	-204	136.6	5.52	0.10	Not required
Ant 7		2.466		0mm							
WLAN 2.4G		0.955		0mm							
NFC		0.001		0mm	-25.5	-67.5	-204				



17.7 Maximum Reported SAR and SAR Peak Locations

General Note:

1. The maximum reported 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>

Left Cheek																
Band		Ant0			Ant1			Ant5			Ant7			Ant9		
GSM850	SAR (W/kg)	0.251														
	Axis	55	256.8	-172.7												
GSM1900	SAR (W/kg)				< 0.001											
	Axis				60.9	258.1	-171.3									
WCDMA II	SAR (W/kg)				0.149											
	Axis				60.8	258.5	-171.3									
WCDMA IV	SAR (W/kg)				0.183											
	Axis				59.2	247.9	-170.2									
WCDMA V	SAR (W/kg)	0.27														
	Axis	56	255.4	-172.5												
LTE Band 12	SAR (W/kg)	0.178														
	Axis	58.9	257.9	-171.9												
LTE Band 13	SAR (W/kg)	0.262														
	Axis	57.6	255.6	-171.5												
LTE Band 25	SAR (W/kg)				0.12											
	Axis				60.6	249.5	-171.3									
LTE Band 26	SAR (W/kg)	0.19														
	Axis	54.6	256.4	-172.1												
LTE Band 66	SAR (W/kg)				0.171											
	Axis				59.6	248.6	-170									
LTE Band 7	SAR (W/kg)				0.146											
	Axis				62.1	249.2	-171.1									
LTE Band 41	SAR (W/kg)				0.082											
	Axis				62.6	248.5	-171.3									
LTE Band 42	SAR (W/kg)							0.727								
	Axis							13.6	325.3	-171.1						
FR1 n2	SAR (W/kg)				0.098											
	Axis				60.8	247.8	-171.3									
FR1 n26	SAR (W/kg)	0.141														
	Axis	54.6	256.4	-172.1												
FR1 n66	SAR (W/kg)				0.118											
	Axis				59.8	248.6	-170									
FR1 n7	SAR (W/kg)				0.109											
	Axis				62.9	248.9	-171.1									
FR1 n78	SAR (W/kg)							0.757			0.89			0.131		
	Axis							6.1	324.1	-170.3	34	337.2	-171.1	60.9	273.1	-171.7

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.378		
	Axis	25.7	328.6	-171.7

WLAN5GHz Ant5+8	SAR (W/kg)	0.393		
	Axis	49.6	324.6	-171.5

WLAN6GHz Ant5+8	SAR (W/kg)	0.181		
	Axis	3.6	317.6	-169.9



BT Ant6	SAR (W/kg)	0.253		
	Axis	26.1	327.2	-171.8

BT Ant8	SAR (W/kg)	0.149		
	Axis	58	321.8	-170.6

Left Tilted												
Band		Ant0			Ant1			Ant5			Ant9	
GSM850	SAR (W/kg)	0.138										
	Axis	39.5	272.8	-173.3								
GSM1900	SAR (W/kg)				< 0.001							
	Axis				28.6	269.2	-172					
WCDMA II	SAR (W/kg)				0.088							
	Axis				28.1	270.2	-172					
WCDMA IV	SAR (W/kg)				0.077							
	Axis				12.6	262.2	-170.8					
WCDMA V	SAR (W/kg)	0.151										
	Axis	39.2	271.6	-173.3								
LTE Band 12	SAR (W/kg)	0.104										
	Axis	41.6	270.3	-173.4								
LTE Band 13	SAR (W/kg)	0.162										
	Axis	41.8	271.1	-173.4								
LTE Band 25	SAR (W/kg)				0.1							
	Axis				28.8	270	-172					
LTE Band 26	SAR (W/kg)	0.104										
	Axis	39.8	273.1	-173.3								
LTE Band 66	SAR (W/kg)				0.081							
	Axis				12.8	268.9	-170.8					
LTE Band 7	SAR (W/kg)				0.12							
	Axis				30.5	271.9	-172					
LTE Band 41	SAR (W/kg)				0.065							
	Axis				30.2	270.2	-172					
LTE Band 42	SAR (W/kg)							0.892				
	Axis							12.8	325.8	-171		
FR1 n2	SAR (W/kg)				0.059							
	Axis				27.5	271	-172					
FR1 n26	SAR (W/kg)	0.08										
	Axis	38.5	273.3	-173.3								
FR1 n66	SAR (W/kg)				0.062							
	Axis				12.9	268.2	-170.8					
FR1 n7	SAR (W/kg)				0.086							
	Axis				30.6	270.2	-172					
FR1 n78	SAR (W/kg)							0.882			0.188	
	Axis							3.4	323.4	-170	24.5	270.4 -171.6

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.301		
	Axis	22.7	329.2	-171.5

WLAN5GHz Ant5+8	SAR (W/kg)	0.381		
	Axis	-1	325.8	-169.2

WLAN6GHz Ant5+8	SAR (W/kg)	0.359		
	Axis	4	318.3	-170

BT Ant6	SAR (W/kg)	0.231		
	Axis	20.1	330.7	-171.3

BT Ant8	SAR (W/kg)	0.125		
	Axis	33.1	335.5	-171.3



<Hotspot>

Front												
Band		Ant1			Ant4			Ant5			Ant7	
GSM850	SAR (W/kg)											
	Axis											
GSM1900	SAR (W/kg)	0.973										
	Axis	3.6	-86.5	-204								
WCDMA II	SAR (W/kg)	0.656										
	Axis	3.2	-87.2	-204								
WCDMA IV	SAR (W/kg)	0.784										
	Axis	3.9	-87.6	-204								
WCDMA V	SAR (W/kg)											
	Axis											
LTE Band 12	SAR (W/kg)											
	Axis											
LTE Band 13	SAR (W/kg)											
	Axis											
LTE Band 25	SAR (W/kg)	0.705			0.243							
	Axis	3.5	-87	-204	-52	75	-204					
LTE Band 26	SAR (W/kg)				0.25							
	Axis				-47.5	78	-204					
LTE Band 66	SAR (W/kg)	0.661			0.214							
	Axis	3.5	-87	-204	-53.5	88.5	-204					
LTE Band 7	SAR (W/kg)	1.041			0.195							
	Axis	3	-79	-204	-54	89	-204					
LTE Band 41	SAR (W/kg)	0.76			0.185							
	Axis	3	-79	-204	-52.2	89.2	-204					
LTE Band 42	SAR (W/kg)							0.171				
	Axis							-15	89	-204		
FR1 n2	SAR (W/kg)	0.67			0.182							
	Axis	3.2	-86.2	-204	-52.5	74.2	-204					
FR1 n26	SAR (W/kg)				0.215							
	Axis				-48	78.2	-204					
FR1 n66	SAR (W/kg)	0.838			0.215							
	Axis	3.3	-85.6	-204	-53.6	88.1	-204					
FR1 n7	SAR (W/kg)	0.729			0.182							
	Axis	3.1	-78.4	-204	-52.6	89.9	-204					
FR1 n78	SAR (W/kg)							0.188			0.196	
	Axis							-15	89	-204	10	71 -204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.276		
	Axis	13	40	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.299		
	Axis	-25	89	-204

BT Ant6	SAR (W/kg)	0.139		
	Axis	3	78	-204

BT Ant8	SAR (W/kg)	0.131		
	Axis	15	33	-204



Back																			
Band		Ant0			Ant1			Ant4			Ant5			Ant7			Ant3		
GSM850	SAR (W/kg)	1.066																	
	Axis	-5.2	-74.6	-204															
GSM1900	SAR (W/kg)				1.044														
	Axis				-47	-78.5	-204												
WCDMA II	SAR (W/kg)				0.89														
	Axis				-47.9	-78.2	-204												
WCDMA IV	SAR (W/kg)				0.988														
	Axis				-41	-85.2	-204												
WCDMA V	SAR (W/kg)	1.296																	
	Axis	-5.9	-74	-204															
LTE Band 12	SAR (W/kg)	0.922																	
	Axis	17	-73.5	-204															
LTE Band 13	SAR (W/kg)	1.112																	
	Axis	17.5	-73.2	-204															
LTE Band 25	SAR (W/kg)				0.959			0.621											
	Axis				-47.5	-78	-204	-10	73.5	-204									
LTE Band 26	SAR (W/kg)	1.206						0.618											
	Axis	-5.5	-73.5	-204				-8.5	75	-204									
LTE Band 66	SAR (W/kg)				0.98			0.628											
	Axis				-41.5	-84	-204	-8.5	85.5	-204									
LTE Band 7	SAR (W/kg)				1.247			0.617											
	Axis				-34	-71	-204	-5	81	-204									
LTE Band 41	SAR (W/kg)				0.974			0.627											
	Axis				-34.5	-70.6	-204	-5.5	81.3	-204									
LTE Band 42	SAR (W/kg)										0.646								
	Axis										-36	87	-204						
FR1 n2	SAR (W/kg)				0.974			0.615											
	Axis				-47	-78.6	-204	-10.5	73	-204									
FR1 n26	SAR (W/kg)	0.882						0.625											
	Axis	-5	-73	-204				-8	75.6	-204									
FR1 n66	SAR (W/kg)				1.042			0.622											
	Axis				-41.1	-84.5	-204	-9	85	-204									
FR1 n7	SAR (W/kg)				0.998			0.63											
	Axis				-34.5	-71.5	-204	-5.6	81.5	-204									
FR1 n78	SAR (W/kg)										0.45			0.447			0.627		
	Axis										-38	80	-204	-65	62	-204	5	60	-204
																	-63	-71	-204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.671		
	Axis	-55	69	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.533		
	Axis	-35	83	-204

BT Ant6	SAR (W/kg)	0.286		
	Axis	-54	79	-204

BT Ant8	SAR (W/kg)	0.268		
	Axis	-63	49	-204



Right Side																			
Band		Ant0			Ant1			Ant3			Ant4			Ant5			Ant7		
GSM850	SAR (W/kg)	0.107																	
	Axis	-30.3	25.5	-204															
GSM1900	SAR (W/kg)				0.267														
	Axis				-29	71	-204												
WCDMA II	SAR (W/kg)				0.164														
	Axis				-29.8	72.1	-204												
WCDMA IV	SAR (W/kg)				0.214														
	Axis				-29.3	69.5	-204												
WCDMA V	SAR (W/kg)	0.126																	
	Axis	-31	23.7	-204															
LTE Band 12	SAR (W/kg)	0.165																	
	Axis	-31.4	22.8	-204															
LTE Band 13	SAR (W/kg)	0.231																	
	Axis	-31.4	23.5	-204															
LTE Band 25	SAR (W/kg)				0.228						0.061								
	Axis				-29	72	-204				-30.6	-34.5	-204						
LTE Band 26	SAR (W/kg)	0.114									0.074								
	Axis	-31.4	25.8	-204							-29.8	-25.5	-204						
LTE Band 66	SAR (W/kg)				0.217						0.034								
	Axis				-29.8	69	-204				-30.6	-37.5	-204						
LTE Band 7	SAR (W/kg)				0.237						0.026								
	Axis				-32.2	50	-204				-36.2	-81	-204						
LTE Band 41	SAR (W/kg)				0.173						0.038								
	Axis				-31.4	61	-204				-35.4	-78	-204						
LTE Band 42	SAR (W/kg)													0.036					
	Axis													31.4	-49	-204			
FR1 n2	SAR (W/kg)				0.24						0.05								
	Axis				-29.2	71.8	-204				-30.2	-34.9	-204						
FR1 n26	SAR (W/kg)	0.086									0.076								
	Axis	-31.9	25.5	-204							-29.5	-25.9	-204						
FR1 n66	SAR (W/kg)				0.269						0.029								
	Axis				-29.5	69	-204				-30	-37	-204						
FR1 n7	SAR (W/kg)				0.203						0.027								
	Axis				-32	50.2	-204				-36	-81.3	-204						
FR1 n78	SAR (W/kg)							< 0.001						0.084			0.627		
	Axis							-27.4	-74	-204				-25	-64	-204	-25	-69	-204
																	-32.2	69	-204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.487		
	Axis	-26.6	-43	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.565		
	Axis	-25.8	-61	-204

BT Ant6	SAR (W/kg)	0.054		
	Axis	-21	-54	-204

BT Ant8	SAR (W/kg)	0.259		
	Axis	-25.8	-45	-204



<Body-worn>

Front												
Band		Ant1			Ant4			Ant5			Ant7	
GSM850	SAR (W/kg)											
	Axis											
GSM1900	SAR (W/kg)	0.973										
	Axis	3.6	-86.5	-204								
WCDMA II	SAR (W/kg)	0.964										
	Axis	3.2	-87.2	-204								
WCDMA IV	SAR (W/kg)	1.012										
	Axis	3.9	-87.6	-204								
WCDMA V	SAR (W/kg)											
	Axis											
LTE Band 12	SAR (W/kg)											
	Axis											
LTE Band 13	SAR (W/kg)											
	Axis											
LTE Band 25	SAR (W/kg)	0.997			0.346							
	Axis	3.5	-87	-204	-52	75	-204					
LTE Band 26	SAR (W/kg)				0.356							
	Axis				-47.5	78	-204					
LTE Band 66	SAR (W/kg)	0.883			0.291							
	Axis	3.5	-87	-204	-53.5	88.5	-204					
LTE Band 7	SAR (W/kg)	1.029			0.286							
	Axis	3	-79	-204	-54	89	-204					
LTE Band 41	SAR (W/kg)	0.938			0.262							
	Axis	3	-79	-204	-52.2	89.2	-204					
LTE Band 42	SAR (W/kg)							0.228				
	Axis							-15	89	-204		
FR1 n2	SAR (W/kg)	1.056			0.262							
	Axis	3.2	-86.2	-204	-52.5	74.2	-204					
FR1 n26	SAR (W/kg)				0.306							
	Axis				-48	78.2	-204					
FR1 n66	SAR (W/kg)	1.034			0.324							
	Axis	3.3	-85.6	-204	-53.6	88.1	-204					
FR1 n7	SAR (W/kg)	0.927			0.257							
	Axis	3.1	-78.4	-204	-52.6	89.9	-204					
FR1 n78	SAR (W/kg)							0.359			0.39	
	Axis							-15	89	-204	10	71 -204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.18		
	Axis	13	40	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.245		
	Axis	-25	89	-204

WLAN6GHz Ant5+8	SAR (W/kg)	0.096		
	Axis	-25	85.9	-204

BT Ant6	SAR (W/kg)	0.139		
	Axis	3	78	-204

BT Ant8	SAR (W/kg)	0.131		
	Axis	15	33	-204



Back																					
Band		Ant0			Ant1			Ant4			Ant5			Ant7			Ant3		Ant9		
GSM850	SAR (W/kg)	1.066																			
	Axis	-5.2	-74.6	-204																	
GSM1900	SAR (W/kg)				1.044																
	Axis				-47	-78.5	-204														
WCDMA II	SAR (W/kg)				1.266																
	Axis				-47.9	-78.2	-204														
WCDMA IV	SAR (W/kg)																				
	Axis				-41	-85.2	-204														
WCDMA V	SAR (W/kg)	1.26																			
	Axis	-5.9	-74	-204																	
LTE Band 12	SAR (W/kg)	0.922																			
	Axis	17	-73.5	-204																	
LTE Band 13	SAR (W/kg)	1.112																			
	Axis	17.5	-73.2	-204																	
LTE Band 25	SAR (W/kg)				1.285			0.888													
	Axis				-47.5	-78	-204	-10	73.5	-204											
LTE Band 26	SAR (W/kg)	1.206						0.884													
	Axis	-5.5	-73.5	-204				-8.5	75	-204											
LTE Band 66	SAR (W/kg)				1.277			0.864													
	Axis				-41.5	-84	-204	-8.5	85.5	-204											
LTE Band 7	SAR (W/kg)				1.264			0.866													
	Axis				-34	-71	-204	-5	81	-204											
LTE Band 41	SAR (W/kg)				1.203			0.886													
	Axis				-34.5	-70.6	-204	-5.5	81.3	-204											
LTE Band 42	SAR (W/kg)										0.875										
	Axis										-36	87	-204								
FR1 n2	SAR (W/kg)				1.296			0.888													
	Axis				-47	-78.6	-204	-10.5	73	-204											
FR1 n26	SAR (W/kg)	0.856						0.889													
	Axis	-5	-73	-204				-8	75.6	-204											
FR1 n66	SAR (W/kg)				1.289			0.891													
	Axis				-41.1	-84.5	-204	-9	85	-204											
FR1 n7	SAR (W/kg)				1.268			0.882													
	Axis				-34.5	-71.5	-204	-5.6	81.5	-204											
FR1 n78	SAR (W/kg)										0.858			0.892			0.891		0.871		
	Axis										-38	80	-204	-65	62	-204	5	60	-204	-63	-71

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.38		
	Axis	-55	69	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.392		
	Axis	-35	83	-204

WLAN6GHz Ant5+8	SAR (W/kg)	0.371		
	Axis	-41.1	84.2	-204

BT Ant6	SAR (W/kg)	0.259		
	Axis	-54	79	-204

BT Ant8	SAR (W/kg)	0.253		
	Axis	-63	49	-204



Sensor Off

Back									
Band		Ant1			Ant4			Ant5	
GSM850	SAR (W/kg)								
	Axis								
GSM1900	SAR (W/kg)								
	Axis								
WCDMA II	SAR (W/kg)	0.339							
	Axis	-40	-72.5	-204					
WCDMA IV	SAR (W/kg)	0.386							
	Axis	-38.5	-73	-204					
WCDMA V	SAR (W/kg)								
	Axis								
LTE Band 12	SAR (W/kg)								
	Axis								
LTE Band 13	SAR (W/kg)								
	Axis								
LTE Band 25	SAR (W/kg)	0.353			0.413				
	Axis	-40	-73.5	-204	-37	73.5	-204		
LTE Band 26	SAR (W/kg)				0.167				
	Axis				-11.5	73.5	-204		
LTE Band 66	SAR (W/kg)	0.35			0.421				
	Axis	-29.5	-73.5	-204	-10	87	-204		
LTE Band 7	SAR (W/kg)	0.265			0.654				
	Axis	-8	-69	-204	-6	83	-204		
LTE Band 41	SAR (W/kg)				0.403				
	Axis				-25	76	-204		
LTE Band 42	SAR (W/kg)							0.5	
	Axis							-41	92 -204
FR1 n2	SAR (W/kg)	0.23			0.308				
	Axis	-38	-73	-204	-37.5	74	-204		
FR1 n26	SAR (W/kg)				0.123				
	Axis				-12	74.5	-204		
FR1 n66	SAR (W/kg)	0.227			0.306				
	Axis	-31.5	-74	-204	-10	85	-204		
FR1 n7	SAR (W/kg)	0.211			0.414				
	Axis	-15	-72	-204	-20	78	-204		
FR1 n78	SAR (W/kg)							0.42	
	Axis							-47	87 -204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.269		
	Axis	-54	77	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.791		
	Axis	-34	90	-204

<Extremity>

Back															
Band		Ant0			Ant1			Ant4			Ant5			Ant3	
GSM850	SAR (W/kg)														
	Axis														
GSM1900	SAR (W/kg)														
	Axis														
WCDMA II	SAR (W/kg)				1.588										
	Axis				-40.2	-73.6	-204								
WCDMA IV	SAR (W/kg)				2.776										
	Axis				-41.6	-75.5	-204								
WCDMA V	SAR	2.513													



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	(W/kg)																		
	Axis	3.9	-71.6	-204															
LTE Band 12	SAR (W/kg)																		
	Axis																		
LTE Band 13	SAR (W/kg)																		
	Axis																		
LTE Band 25	SAR (W/kg)				3.07			2.187											
	Axis				-40	-73.5	-204	-10	83.5	-204									
LTE Band 26	SAR (W/kg)	2.21																	
	Axis	3.5	-72	-204															
LTE Band 66	SAR (W/kg)				3.207			2.481											
	Axis				-41.5	-75	-204	-10	82.2	-204									
LTE Band 7	SAR (W/kg)				1.696			2.334											
	Axis				-35	-71	-204	-6	82	-204									
LTE Band 41	SAR (W/kg)							2.312											
	Axis							-6	82	-204									
LTE Band 42	SAR (W/kg)										1.165								
	Axis										-38	80	-204						
FR1 n2	SAR (W/kg)				1.987			2.452											
	Axis				-40.2	-73.6	-204	-10	83	-204									
FR1 n26	SAR (W/kg)																		
	Axis																		
FR1 n66	SAR (W/kg)				2.448			2.469											
	Axis				-42	-75.2	-204	-10	81.5	-204									
FR1 n7	SAR (W/kg)							1.97											
	Axis							-6.5	83.4	-204									
FR1 n78	SAR (W/kg)										1.157			2.446			1.784		
	Axis										-35	83	-207	5	78	-204	-64	-70	-204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.496		
	Axis	-55	84	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.256		
	Axis	-34	82	-204

WLAN6GHz Ant5+8	SAR (W/kg)	0.186		
	Axis	-40.3	85.9	-204

NFC	SAR (W/kg)	0.021		
	Axis	6	79	-204

Right Side								
Band			SAR (W/kg)			Ant7		
FR1 n78			2.466			2.101		
			Axis			-25	-68	-204
						-31.4	69	-204

WLAN2.4GHz Ant6+8	SAR (W/kg)	0.955		
	Axis	-25.8	-50	-204

WLAN5GHz Ant5+8	SAR (W/kg)	0.603		
	Axis	-25	-65	-204

WLAN6GHz Ant5+8	SAR (W/kg)	0.294		
	Axis	-24.2	-68	-204

NFC	SAR (W/kg)	0.001		
	Axis	-25.5	-67.5	-204

18. Supplemental Tuner Tests Results

General Note:

1. This device implements impedance tuner (208 states) antenna tuning techniques in the LTE Band 5/12/13/17/26, and 5GNR n5/26 for ANT0.
2. LTE B17 / B5 SAR test was covered by LTE B12 / B26; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced.
3. 5GNR n26 SAR test was covered by 5GNR n5; according to April 2015 TCB workshop, SAR test for overlapping NR bands can be reduced.
4. Per 2019, April TCBC Workshop titled "RF Exposure Procedures", the following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions.
 - 1) SAR is measured according to required procedures with dynamic tuner active allowing device to automatically tune. Auto-tune state determined by device during normal SAR measurement verified and listed alongside the reported SAR results.
 - 2) Total number tuner states divided evenly among each supported band / air interface and exposure condition combination.
 - 3) 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).
 - 4) Single point measurements performed at the peak SAR location of the highest measured SAR configuration for each combination. SAR probe remains stationary throughout the entire series of single point measurements for each combination.
 - 5) If any single point SAR measurement result is > 1.2 W/kg for 1gSAR (or > 3.0 W/kg for 10gSAR) for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
5. The above test procedures were followed to demonstrate that the SAR results in Section 16 represented 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.
6. To evaluate all of the tuner states, the 208 tuner states for ANT0 is 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. When the single point SAR or 1g SAR was > 1.2 W/kg or 10g SAR was > 3.0 W/kg for a particular band / mode / exposure condition, point SAR measurements were made for all tuner states.
7. According to KDB 648474 D04 v01r03, in order to reduce the number of SAR tests required to demonstrate compliance for the numerous tuning states, certain SAR screening procedures were considered to identify the higher SAR between body-worn and hotspot scenarios that need normally required SAR measurements and allow SAR test reduction for the lower SAR conditions.
8. According to KDB 648474 D04 v01r03, 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.
9. 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 G.

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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

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