

Appendix L. Multi-Tx Simultaneous Transmission Analysis Results

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per KDB Publication 447498 D01v06 section 4.3.2 and IEEE 1528-2013 section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of 1g SAR and 10g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is $\leq 1.6\text{W/kg}$ for 1g SAR and $\leq 4\text{ W/kg}$ for 10g SAR. The different test positions in an exposure condition may be considered collectively to determine SAR exclusion according to the sum of 1g or 10g SAR.

When operating in the same antenna group, Samsung S.LSI TAS algorithm in WWAN directly adds the time-averaged RF exposure from 4G and time-averaged RF exposure from 5G NR. S.LSI algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations within an antenna group is demonstrated in the Part 2 Report during algorithm validation.

This device is enabled with S.LSI Time average SAR algorithm with pre-defined sub6 antenna groups (AG0 and AG1). Simultaneous transmission analysis is performed per antenna groups. Section 14.5 contains analysis to demonstrate the AG0 and AG1 are operate mutually exclusive.

L.1 Sub6 Antenna Groups

S.LSI Time average SAR(TAS) algorithm operates based on pre-defined sub6 antenna groups (AG). Sub6 Tx antennas in the device are grouped based on spatial variation of RF exposure distributions, where the RF exposure of one AG is mutually exclusive from other AG. This is accomplished by demonstrating either of below conditions for all exposure scenarios:

Sum of SAR of one antenna from each of the sub6 AGs and the RF exposure from radios outside TAS is less than regulatory limits. This condition must be demonstrated for all antenna combinations of sub6 AGs. This device supports two sub6 AG: AG0 and AG1, with AG0 having 3 antennas (A, B,C) and AG1 having 5 antennas (E, F,G, I, K). The conditions are verified through the following criteria.

The highest reported SAR at Plimit (or Pmax when Plimit > Pmax) for each antenna should be obtained out of all supported WWAN technologies and frequency bands for each exposure condition. Demonstrate that the sum of reported SAR of antenna from each of the sub6 AGs and the sum of RF exposure of TAS should be less than the regulatory limit as given below for each RSI.

Obtain the worst-case reported SAR for each antenna group (i.e., maximum reported SAR at Plimit (or Pmax when Plimit > Pmax) out of all supported technologies, frequency bands and antennas in AG0 and AG1), denoted as max.SAR.AG0 and max.SAR.AG1, and obtain the worst-case RF exposure, and demonstrate that the sum of these RF exposures meets

$$[\text{Max.SAR.AG0} + \text{Max.SAR.AG1}] + [\text{Max.WLAN} + \text{Max.Bluetooth}] \leq 1.6 \text{ (for 1g SAR or 4.0 for 10g)}$$

If the sum result with each antenna group and BT/WLAN exceeds the FCC SAR limit of 1.6 W/kg 1g ,4.0 W/kg 10g, SAR Simultaneous Transmission evaluation was performed by combining the worst case results of each antenna group with each other using fast volume scan measurements to verify compliance with FCC limits.

AG0, AG1, WLAN/BT are described in the table below.

AG0	
Ant. A	GSM850, UMTS 5, LTE 5/12/13/14/26/71, NR n5/n12/n14/n26/n71
Ant. B	GSM1900, UMTS 2/4, LTE 2/4/7/25/30/38/41/66, NR n2/n7/n25/n30/n38/n41/n66
Ant. C	NR n41 SRS2, NR n48/n77/n78 SRS3

AG1	
Ant. E	GSM850, UMTS 5, LTE 5/12/13/14/26/71, NR n5/n12/n14/n26/n71 NR n48/n77/n78 SRS1
Ant. F	LTE 48, NR n48/n77/n78
Ant. G	NR n41 SRS3, NTN B255
Ant. I	UMTS 2/4, LTE 2/4/7/25/30/38/41/66, NR n2/n7/n25/n30/n38/n41/n66 NR n41/n48/n77/n78 SRS1
Ant. K	mmWave NR n258/n260/n261

WLAN/BT	
Ant. F	WLAN 5 GHz, 6 GHz Ant.1
Ant. G	WLAN 2.4 GHz Ant.1, BT Ant.1
Ant. H	WLAN 2.4 GHz, 5 GHz, 6 GHz Ant.2, BT Ant.2

The TER evaluation between 5G FR2 mmWave and antenna groups (AG0, AG1 and WLAN/BT) has been performed in PD Part 1 report Sec.8 and verified that the FCC limits are complied with under all exposure conditions.

L.2 Head SAR Simultaneous Transmission Analysis

The Maximum measurement result for AG0 [W/kg]				
Position	Ant. A	Ant. B	Ant. C	Max.AG0
Left Touch	0.242	0.143	0.205	0.242
Left Tilt	0.160	0.074	0.000	0.160
Right Touch	0.354	0.131	0.003	0.354
Right Tilt	0.168	0.110	0.000	0.168

The Maximum measurement result for AG1 [W/kg]					
Position	Ant. E	Ant. F	Ant. G	Ant. I	Max.AG1
Left Touch	0.313	0.171	0.258	0.858	0.858
Left Tilt	0.114	0.133	0.046	0.176	0.176
Right Touch	0.618	0.617	0.512	0.316	0.618
Right Tilt	0.206	0.417	0.614	0.065	0.614

The measurement result for WLAN [W/kg]						
Position	WLAN 2.4 GHz Ant. G	WLAN 2.4 GHz Ant. H	WLAN 2.4 GHz Ant. G+H	WLAN 5 GHz Ant. F	WLAN 5 GHz Ant. H	WLAN 5 GHz Ant. F+H
Left Touch	0.152	0.296	0.471	0.129	0.204	0.198
Left Tilt	0.201	0.188	0.574	0.138	0.163	0.179
Right Touch	0.300	0.149	0.412	0.344	0.093	0.370
Right Tilt	0.309	0.135	0.476	0.352	0.098	0.394

The measurement result for WLAN/BT [W/kg]						
Position	WLAN 6 GHz Ant. F	WLAN 6 GHz Ant. H	WLAN 6 GHz Ant. F+H	BT Ant. G	BT Ant. H	BT Ant. G+H
Left Touch	0.033	0.146	0.179	0.141	0.288	0.162
Left Tilt	0.038	0.003	0.041	0.185	0.196	0.208
Right Touch	0.161	0	0.161	0.233	0.076	0.255
Right Tilt	0.072	0	0.072	0.229	0.068	0.204

Summation for Main Head SAR [W/kg]			
Position	Max. AG0	Max. AG1	Main Max
Left Touch	0.242	0.858	1.100
Left Tilt	0.160	0.176	0.336
Right Touch	0.354	0.618	0.972
Right Tilt	0.168	0.614	0.782

Simultaneous Transmission analysis for Head SAR [W/kg]							
Position	AG0+AG1 +BT Ant.G	AG0+AG1 +BT Ant.H	AG0+AG1 +BT Ant .G+H	AG0+AG1 +WLAN	AG0+AG1 +WLAN+ BT Ant. G	AG0+AG1 +WLAN+ BT Ant. H	AG0+AG1 +WLAN+BT Ant.G+H
Left Touch	1.241	1.388	1.262	1.571	1.537	1.592	1.466
Left Tilt	0.521	0.532	0.544	0.910	0.709	0.711	0.723
Right Touch	1.205	1.048	1.227	1.384	1.575	1.418	1.597
Right Tilt	1.011	0.850	0.986	1.258	1.405	1.244	1.380

L.3 Hotspot/BodyWorn Filp Open SAR Simultaneous Transmission Analysis

The Maximum measurement result for AG0 [W/kg]				
Position	Ant. A	Ant. B	Ant. C	Max.AG0
Rear	1.068	1.144	0.555	1.144
Front	0.799	0.848	0.580	0.848
Left		0.340	0.727	0.727
Right	0.752			0.752
Top				
Bottom	0.973	1.121	0.079	1.121

The Maximum measurement result for AG1 [W/kg]					
Position	Ant. E	Ant. F	Ant.G	Ant.I	Max.AG1
Rear	0.591	0.383	0.365	0.883	0.883
Front	0.471	0.578	0.134	0.827	0.827
Left	0.886	0.560	0.043		0.886
Right				1.082	1.082
Top	0.046	0.649	0.418	0.257	0.649
Bottom					

The measurement result for WLAN [W/kg]						
Position	WLAN 2.4 GHz Ant. G	WLAN 2.4 GHz Ant. H	WLAN 2.4 GHz Ant. G+H	WLAN 5 GHz Ant. F	WLAN 5 GHz Ant. H	WLAN 5 GHz Ant. F+H
Rear	0.167	0.079	0.614	0.447	0.273	0.423
Front	0.130	0.209	0.361	0.317	0.164	0.452
Left	0.035		0.045	0.869		0.969
Right		0.036	0.073		0.127	0.108
Top	0.427	0.158	0.999	0.445	0.095	0.520
Bottom						

The measurement result for WLAN/BT [W/kg]						
Position	WLAN 6 GHz Ant. F	WLAN 6 GHz Ant. H	WLAN 6 GHz Ant. F+H	BT Ant. G	BT Ant. H	BT Ant. G+H
Rear	0.025	0.015	0.04	0.223	0.147	0.364
Front	0.033	0.000	0.033	0.236	0.271	0.416
Left	0.104		0.104	0.052		0.034
Right		0.075	0.075		0.046	0.032
Top	0.045	0.000	0.045	0.766	0.274	0.773
Bottom						

Simultaneous Transmission analysis for Hotspot/BodyWorn Filp Open SAR [W/kg]							
Position	AG0+AG1 +BT Ant.G	AG0+AG1 +BT Ant.H	AG0+AG1 +BT Ant .G+H	AG0+AG1 +WLAN	AG0+AG1 +WLAN+ BT Ant. G	AG0+AG1 +WLAN+ BT Ant. H	AG0+AG1 +WLAN+BT Ant.G+H
Rear	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1
Front	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1
Left	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1
Right	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1	Sec. L.6.1
Top	1.415	0.923	1.422	Sec. L.6.1	Sec. L.6.1	1.443	Sec. L.6.1
Bottom	1.121	1.121	1.121	1.121	1.121	1.121	1.121

L.4 Hotspot/BodyWorn Filp Closed SAR Simultaneous Transmission Analysis

The Maximum measurement result for AG0 [W/kg]								
Position	Ant. A	Ant. B	Ant. C	Ant. E	Ant. F	Ant. G	Ant. I	Max.AG0
Rear	1.040	1.031	0.258	0.116	0.053	0.037	0.287	1.040
Front	0.207	0.165	0.085	0.335	0.533	0.211	0.620	0.620
Left		0.404	0.515	0.516	0.451	0.019		0.516
Right	0.796						1.089	1.089
Top			0.074	0.022		0.001	0.033	0.074
Bottom	0.749	1.009	0.103	0.180	0.567	0.154	0.216	1.009

The measurement result for WLAN [W/kg]						
Position	WLAN 2.4 GHz Ant. G	WLAN 2.4 GHz Ant. H	WLAN 2.4 GHz Ant. G+H	WLAN 5 GHz Ant. F	WLAN 5 GHz Ant. H	WLAN 5 GHz Ant. F+H
Rear	0.041	0.082	0.100	0.075	0.034	0.168
Front	0.166	0.074	0.298	0.317	0.189	0.498
Left	0.048		0.078	0.876		0.958
Right		0.034	0.062		0.169	0.17
Top						
Bottom	0.381	0.122	0.729	0.537	0.136	0.592

The measurement result for WLAN/BT [W/kg]						
Position	WLAN 6 GHz Ant. F	WLAN 6 GHz Ant. H	WLAN 6 GHz Ant. F+H	BT Ant. G	BT Ant. H	BT Ant. G+H
Rear	0.000	0.012	0.012	0.037	0.124	0.054
Front	0.017	0.000	0.017	0.221	0.237	0.34
Left	0.050		0.050	0.027		0.053
Right		0.037	0.037		0.078	0.026
Top						
Bottom	0.000	0.003	0.003	0.441	0.223	0.538

Simultaneous Transmission analysis for Hotspot/BodyWorn Filp Closed SAR [W/kg]							
Position	AG0+AG1 +BT Ant.G	AG0+AG1 +BT Ant.H	AG0+AG1 +BT Ant. G+H	AG0+AG1 +WLAN	AG0+AG1 +WLAN+ BT Ant. G	AG0+AG1 +WLAN+ BT Ant. H	AG0+AG1 +WLAN+BT Ant.G+H
Rear	1.077	1.164	1.094	1.208	1.245	1.332	1.262
Front	0.841	0.857	0.960	1.118	1.339	1.355	1.458
Left	0.543	0.516	0.569	1.474	1.501	1.474	1.527
Right	1.089	1.167	1.115	1.259	1.259	1.337	1.285
Top	0.074	0.074	0.074	0.074	0.074	0.074	0.074
Bottom	1.450	1.232	1.547	Sec. L.6.2	Sec. L.6.2	Sec. L.6.2	Sec. L.6.2

L.5 Phablet SAR Simultaneous Transmission Analysis

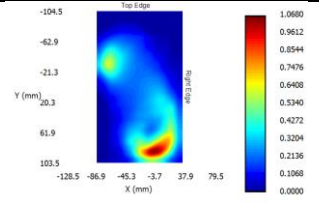
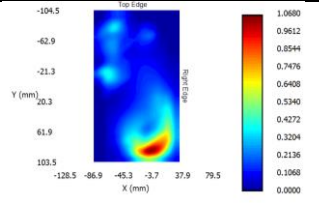
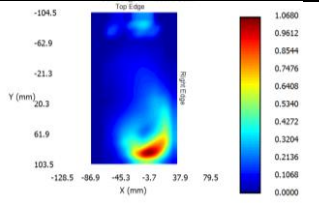
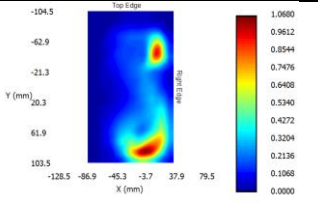
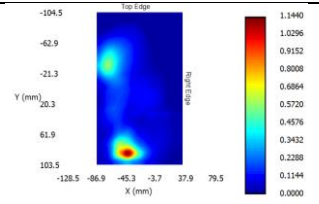
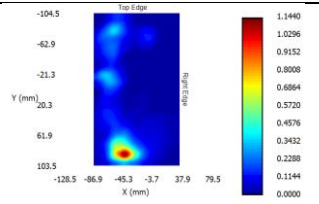
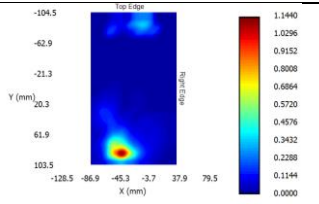
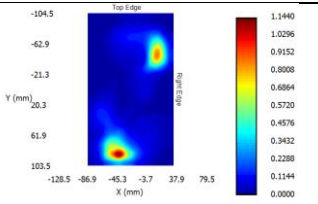
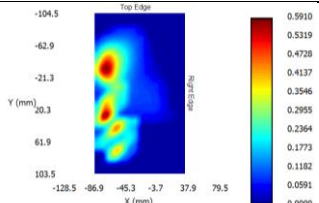
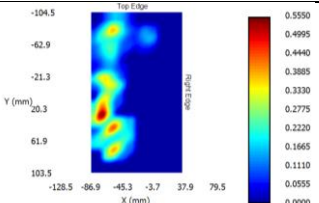
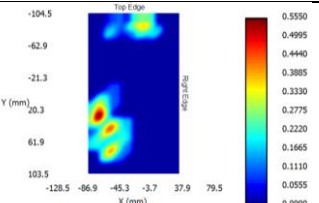
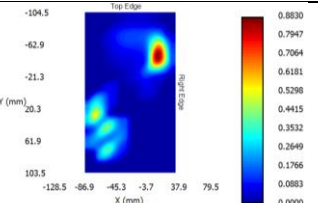
Position	NFC [W/kg]	Worst [W/kg]
Rear	0.00000445	0.00000445
Front	0.0000051	0.0000051
Left	0.0000210	0.0000210
Right	0.00000253	0.00000253
Top	0.000000688	0.000000688
Bottom	0.0000000291	0.0000000291

L.6 Fast Volume Scan Combine Analysis

According to the antenna group-based SAR evaluation, it has been sufficiently demonstrated that AG0 is mutually exclusive with AG1 and that SAR limits are not exceeded even in simultaneous transmission scenarios for all antenna group combinations.

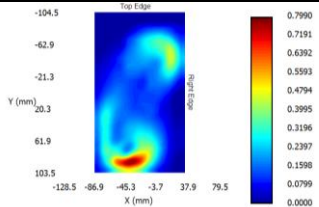
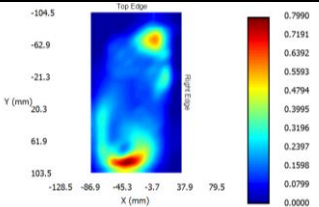
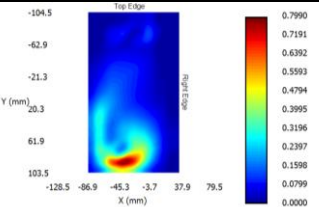
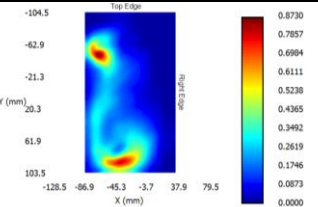
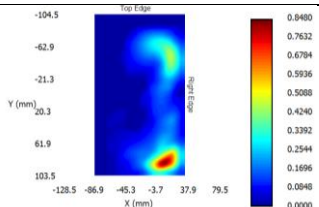
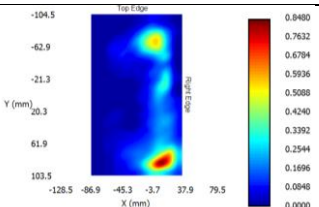
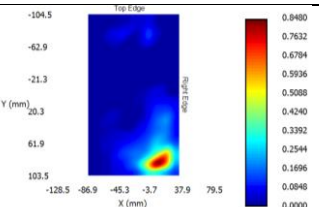
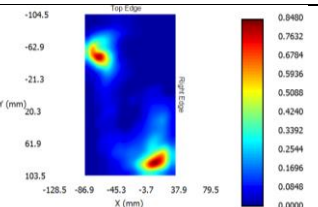
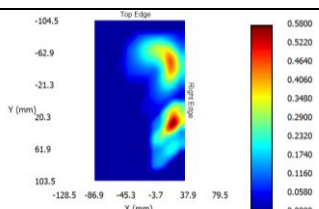
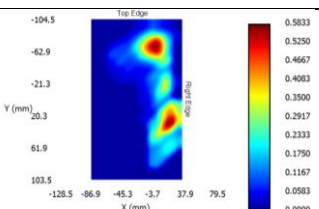
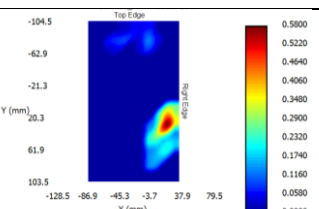
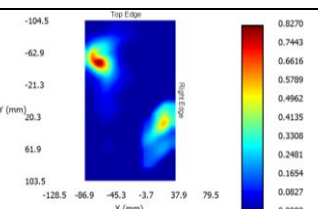
L.6.1 Body Open

L.6.1.1 Rear

	Ant. E 0.591 [W/kg]	Ant. F 0.383 [W/kg]	Ant. G 0.365 [W/kg]	Ant. I 0.883 [W/kg]
Ant. A 1.068 [W/kg]				
	1.068 [W/kg]	1.068 [W/kg]	1.068 [W/kg]	1.068 [W/kg]
Ant. B 1.144 [W/kg]				
	1.144 [W/kg]	1.114 [W/kg]	1.144 [W/kg]	1.144 [W/kg]
Ant. C 0.555 [W/kg]				
	0.591 [W/kg]	0.555 [W/kg]	0.555 [W/kg]	0.883 [W/kg]

Each antenna is independent Exposure assessment of each antenna combination has little influence on each other.

L.6.1.2 Front

	Ant. E 0.471 [W/kg]	Ant. F 0.578 [W/kg]	Ant. G 0.134 [W/kg]	Ant. I 0.827 [W/kg]
Ant. A 0.799 [W/kg]				
	0.799 [W/kg]	0.799 [W/kg]	0.799 [W/kg]	0.873 [W/kg]
Ant. B 0.848 [W/kg]				
	0.848 [W/kg]	0.848 [W/kg]	0.848 [W/kg]	0.848 [W/kg]
Ant. C 0.580 [W/kg]				
	0.580 [W/kg]	0.5833 [W/kg]	0.58 [W/kg]	0.827 [W/kg]

Each antenna is independent Exposure assessment of each antenna combination has little influence on each other.

L.6.1.2 Simultaneous Evaluation

L.6.1.2.1 Summation Rear

	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A	1.068	1.291	1.215	1.432	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1
Ant. B	1.144	1.367	1.291	1.508	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1	Sec. L.6.1.2.1.1
Ant. C	0.555	0.778	0.702	0.919	1.169	1.225	1.149	1.366
Ant. E	0.591	0.814	0.738	0.955	1.205	1.261	1.185	1.402
Ant. F	0.383	0.606	0.530	0.747	0.997	1.053	0.977	1.194
Ant. G	0.365	0.588	0.512	0.729	0.979	1.035	0.959	1.176
Ant. I	0.883	1.106	1.030	1.247	1.497	1.553	1.477	Sec. L.6.1.2.1.1

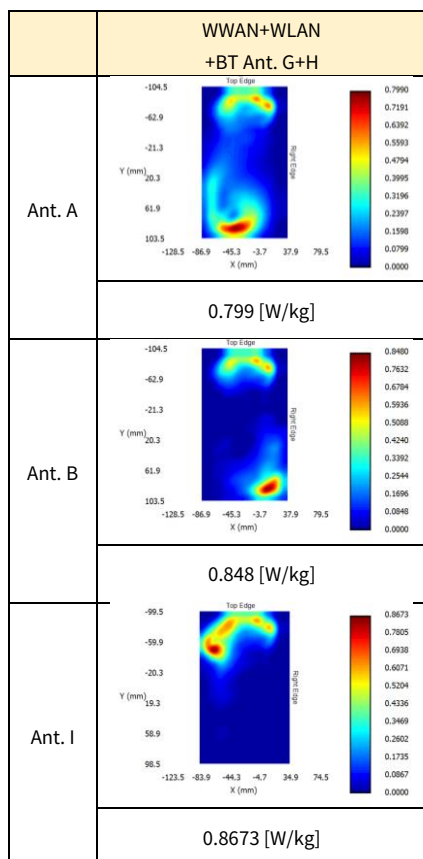
L.6.1.2.1.1 Combined Result for Rear Side

	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A	1.068 [W/kg]	1.071 [W/kg]	1.068 [W/kg]	1.068 [W/kg]
Ant. B	1.144 [W/kg]	1.147 [W/kg]	1.144 [W/kg]	1.144 [W/kg]
Ant. I				0.8926 [W/kg]

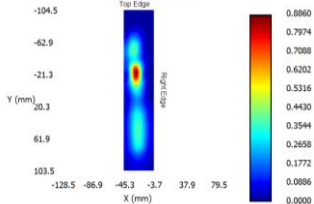
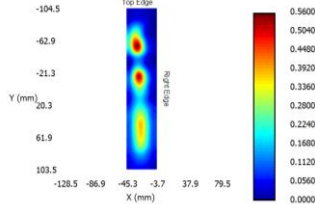
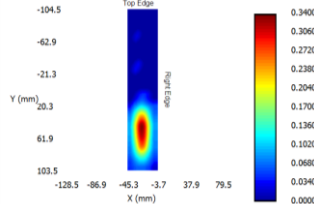
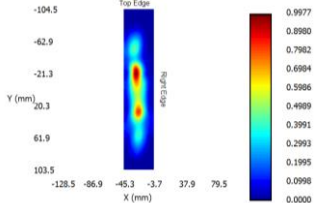
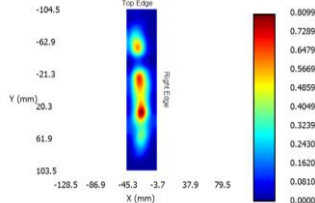
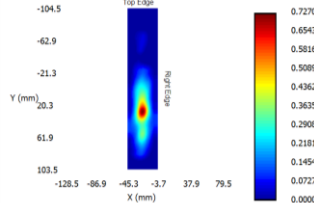
L.6.1.2.2 Summation Front

	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A	0.799	1.035	1.07	1.215	1.251	1.487	1.522	Sec. L.6.1.2.2.1
Ant. B	0.848	1.084	1.119	1.264	1.300	1.536	1.571	Sec. L.6.1.2.2.1
Ant. C	0.580	0.816	0.851	0.996	1.032	1.268	1.303	1.448
Ant. E	0.471	0.707	0.742	0.887	0.923	1.159	1.194	1.339
Ant. F	0.578	0.814	0.849	0.994	1.030	1.266	1.301	1.446
Ant. G	0.134	0.370	0.405	0.550	0.586	0.822	0.857	1.002
Ant. I	0.827	1.063	1.098	1.243	1.279	1.515	1.550	Sec. L.6.1.2.2.1

L.6.1.2.2.1 Combined Result for Front Side



L.6.1.3 Combined Result for Left Side

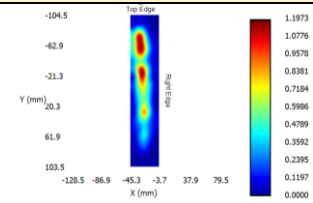
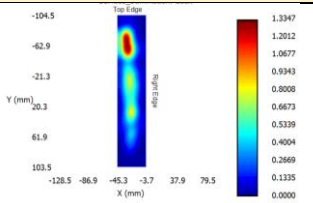
	Ant. E 0.886 [W/kg]	Ant. F 0.560 [W/kg]	Ant. G 0.043 [W/kg]	Ant. I
Ant. A	N/A	N/A	N/A	N/A
Ant. B 0.340 [W/kg]				N/A
	0.866 [W/kg]	0.560 [W/kg]	0.34 [W/kg]	
Ant. C 0.727 [W/kg]				N/A
	0.9977 [W/kg]	0.8099 [W/kg]	0.727 [W/kg]	

Each antenna is independent Exposure assessment of each antenna combination has little influence on each other.(Except Ant. C+E, Ant. C+F)

L.6.1.2.3 Summation Left

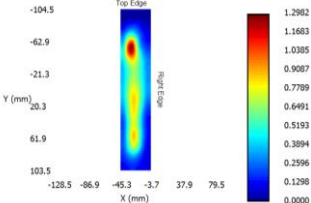
	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. B	0.340	0.392	0.34	0.374	1.309	1.36	1.309	1.343
Ant. G	0.047	0.099	0.047	0.081	1.016	1.07	1.016	1.050
Ant. C+E	0.9977	1.050	0.998	1.032	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1
Ant. C+F	0.8099	0.862	0.810	0.844	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1	Sec .L.6.1.2.3.1

L.6.1.2.3.1 Combined Left

	Ant. C+E	Ant. C+F
WWAN + Worst WLAN+BT		
	1.1973 [W/kg]	1.3347 [W/kg]

L.6.1.2.4 Right

L.6.1.1.4 Combined Result for Right Side

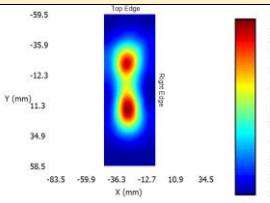
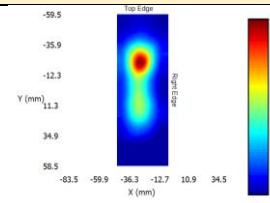
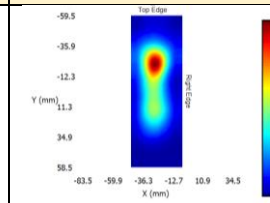
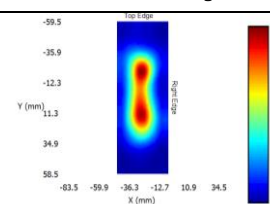
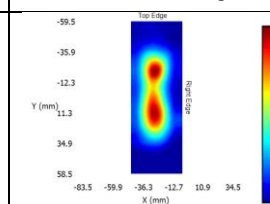
	Ant. E	Ant. F	Ant. G	Ant. I 1.082 [W/kg]
Ant. A 0.752 [W/kg]	N/A	N/A	N/A	
Ant. B	N/A	N/A	N/A	N/A
Ant. C	N/A	N/A	N/A	N/A

	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A+I	1.2982	1.2982	1.3442	1.3302	1.4252	1.4252	1.4712	1.4572

L.6.1.2.5 Top

	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. E	0.046	0.812	0.320	0.819	1.045	1.332	0.840	1.339
Ant. F	0.649	1.415	0.923	1.422	Sec. L.6.1.2.5.1	Sec. L.6.1.2.5.1	1.443	Sec. L.6.1.2.5.1
Ant. G	0.418	1.184	0.692	1.191	1.417	Sec. L.6.1.2.5.1	1.212	Sec. L.6.1.2.5.1
Ant. I	0.257	1.023	0.531	1.030	1.256	1.543	1.051	1.550

L.6.1.2.5.1 Combined Top

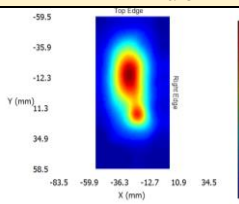
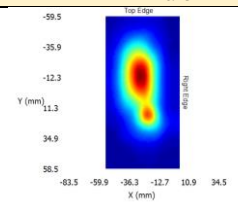
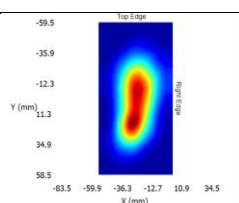
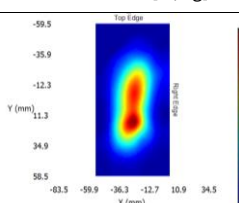
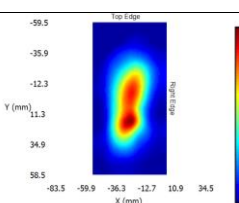
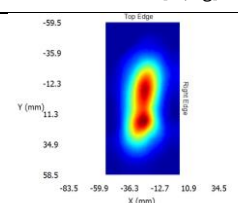
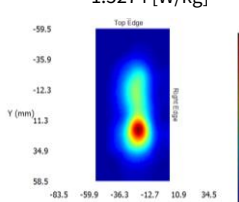
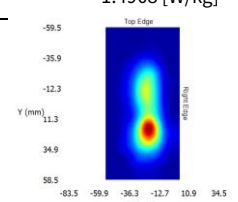
	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. G+H
Ant. F	 1.1041 [W/kg]	 1.5945 [W/kg]	 1.5914 [W/kg]
Ant. G	N/A	 1.2006 [W/kg]	 1.1859 [W/kg]

L.6.2 Body Close

L.6.2.1 Bottom

	WWAN	WWAN +BT Ant. G	WWAN +BT Ant. H	WWAN +BT Ant. G+H	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A	0.749	1.190	0.972	1.287	1.478	Sec. L.6.2.1.1	1.564	Sec. L.6.2.1.1
Ant. B	1.009	1.450	1.232	1.547	Sec. L.6.2.1.1	Sec. L.6.2.1.1	Sec. L.6.2.1.1	Sec. L.6.2.1.1
Ant. C	0.103	0.544	0.326	0.641	0.832	1.136	0.918	1.233
Ant. E	0.180	0.621	0.403	0.718	0.909	1.213	0.995	1.310
Ant. F	0.567	1.008	0.790	1.105	1.296	1.600	1.382	Sec. L.6.2.1.1
Ant. G	0.154	0.595	0.377	0.692	0.883	1.187	0.969	1.284
Ant. I	0.216	0.657	0.439	0.754	0.945	1.249	1.031	1.346

L.6.2.1.1 Combined Bottom

	WWAN +WLAN	WWAN+WLAN +BT Ant. G	WWAN+WLAN +BT Ant. H	WWAN+WLAN +BT Ant. G+H
Ant. A	N/A	 1.1519 [W/kg]	N/A	 1.1943 [W/kg]
Ant. B	 1.519 [W/kg]	 1.5274 [W/kg]	 1.2726 [W/kg]	 1.4908 [W/kg]
Ant. F	N/A	 1.233 [W/kg]	N/A	 1.2387 [W/kg]