

APPENDIX D SIMULTANEOUS NUMERICAL CALCULATIONS

D.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.




D.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 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 the 1g SAR for all the simultaneous transmitting antennas in a specific a physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR (“-”).

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

For inter-band ULCA and EN-DC, LTE B26 Ant A SAR represents LTE B5 Ant A and LTE B25 Ant A SAR represents LTE B2 Ant A since their frequency ranges are overlapped and they share the same transmission path and signal characteristics.

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D.3 Head SAR Simultaneous Transmission Analysis

Table D-1
Simultaneous Transmission Scenarios of WLAN/BT (Held to Ear)

Configuration	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)
	1	2	3	4	5
Right Cheek	0.154*	0.488	0.231	0.477	0.515
Right Tilt	0.154	0.208	0.047	0.477*	0.515*
Left Cheek	0.154*	0.488*	0.105	0.253	0.185
Left Tilt	0.154*	0.130	0.022	0.037	0.040

Configuration	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)
	2	4	5	2+5	3	3+1	3+4	3+5	3+1+4	3+1+5	
Right Cheek	0.488	0.477	0.515	1.003	0.231	0.385	0.708	0.746	0.862	0.900	1.003
Right Tilt	0.208	0.477	0.515	0.723	0.047	0.201	0.524	0.562	0.678	0.716	0.723
Left Cheek	0.488	0.253	0.185	0.673	0.105	0.259	0.358	0.290	0.512	0.444	0.673
Left Tilt	0.130	0.037	0.040	0.170	0.022	0.176	0.059	0.062	0.213	0.216	0.216

Table D-2
Simultaneous Transmission Scenario with WLAN/BT (Held to Ear)

Configuration	Ant A SAR (W/kg)	Ant B SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Ant A + WLAN/BT SAR (W/kg)	Ant B + WLAN/BT SAR (W/kg)
	Head SAR	0.432	0.059	1.003	1.435
Right Cheek	0.222	0.033	0.723	0.945	0.756
Left Cheek	0.325	0.059	0.673	0.998	0.732
Left Tilt	0.210	0.059	0.216	0.426	0.275

Table D-3
Standalone data for Inter-Band ULCA and EN-DC SAR (Held to Ear)

Configuration	A	A	A	A	F	A	A	F
	LTE Band 12 SAR (W/kg)	LTE Band 13 SAR (W/kg)	LTE Band 26 (Cell) SAR (W/kg)	LTE Band 66/4 (AWS) SAR (W/kg)	LTE Band 4 (AWS) SAR (W/kg)	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)
	6	7	8	9	10	11	13	15
Right Cheek	0.090	0.223	0.258	0.097	0.238	0.089	0.220	0.323
Right Tilt	0.056	0.126	0.133	0.068	0.324	0.056	0.135	0.616
Left Cheek	0.102	0.165	0.208	0.201	0.378	0.195	0.202	0.601
Left Tilt	0.066	0.114	0.140	0.066	0.392	0.060	0.131	0.905



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Table D-4
Simultaneous Transmission Scenario of Inter-Band ULCA (Held to Ear)

Configuration	LTE Band 2 (PCS) Ant A + LTE Band 4 (AWS) Ant F SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 5 (Cell) Ant A SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 12 Ant A SAR (W/kg)	Inter-Band ULCA Worst-case Combination SAR (W/kg)
	11+10	9+8	9+6	
Right Cheek	0.327	0.355	0.187	0.355
Right Tilt	0.380	0.201	0.124	0.380
Left Cheek	0.573	0.409	0.303	0.573
Left Tilt	0.452	0.206	0.132	0.452

Table D-5
Simultaneous Transmission Scenario with Inter-Band ULCA and WLAN/BT (Held to Ear)

Configuration	Inter-Band ULCA Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Inter-Band ULCA + WLAN/BT Worst-Case Combinations SAR (W/kg)
Right Cheek	0.355	1.003	1.358
Right Tilt	0.380	0.723	1.103
Left Cheek	0.573	0.673	1.246
Left Tilt	0.452	0.216	0.668

Table D-6
Simultaneous Transmission Scenario of EN-DC (Held to Ear)

Configuration	NR Band n5 (Cell) Ant A + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n5 (Cell) Ant A + LTE Band 66/4 (AWS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 5 (Cell) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 12 Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 13 Ant A SAR (W/kg)	EN-DC Worst-case Combination SAR (W/kg)
	13+11	13+9	15+11	15+8	15+6	15+7	
Right Cheek	0.309	0.317	0.412	0.581	0.413	0.546	0.581
Right Tilt	0.191	0.203	0.672	0.749	0.672	0.742	0.749
Left Cheek	0.397	0.403	0.796	0.809	0.703	0.766	0.809
Left Tilt	0.191	0.197	0.965	1.045	0.971	1.019	1.045



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Table D-7
Simultaneous Transmission Scenario with EN-DC and WLAN/BT (Held to Ear)

	Configuration	EN-DC Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	EN-DC + WLAN/BT Worst-Case Combinations SAR (W/kg)
Head SAR	Right Cheek	0.581	1.003	1.584
	Right Tilt	0.749	0.723	1.472
	Left Cheek	0.809	0.673	1.482
	Left Tilt	1.045	0.216	1.261

D.4 Body-Worn Simultaneous Transmission Analysis

Table D-8
Simultaneous Transmission Scenarios of WLAN/BT (Body-worn at 1.5 cm)

Configuration	2.4 GHz WLAN Ant 2 at 14dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO at 15 dBm SAR (W/kg)
	1	2	3	4	5	6	7	8
Back	0.075	0.146	0.224	0.111	0.064	0.189	0.274	0.095

Configuration	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm + 5 GHz WLAN MIMO at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 at 14dBm + 5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 at 14dBm + 5 GHz WLAN MIMO at 15 dBm SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)
	3	6	7	4+8	5	5+2	5+6	5+7	5+1+6	5+1+8	
Back	0.224	0.189	0.274	0.206	0.064	0.210	0.253	0.338	0.328	0.234	0.338



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Table D-9
Simultaneous Transmission Scenario with WLAN/BT (Body-worn at 1.5 cm)

	Configuration	Ant A SAR (W/kg)	Ant B SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Ant A + WLAN/BT SAR (W/kg)	Ant B + WLAN/BT SAR (W/kg)
Body-worn	Back	0.923	0.194	0.338	1.261	0.532

Table D-10
Standalone data for Inter-Band ULCA and EN-DC SAR (Body-worn at 1.5 cm)

Mode		4G/5G SAR (W/kg)	
6	LTE Band 12	0.178	A
7	LTE Band 13	0.298	A
8	LTE Band 26 (Cell)	0.277	A
9	LTE Band 66/4 (AWS)	0.590	A
10	LTE Band 4 (AWS)	0.235	F
11	LTE Band 25 (PCS)	0.475	A
13	NR Band n5 (Cell)	0.304	A
16	NR Band n66 (AWS)	0.251	F

Table D-11
Simultaneous Transmission Scenario of Inter-Band ULCA (Body-worn at 1.5 cm)

Configuration	LTE Band 2 (PCS) Ant A + LTE Band 4 (AWS) Ant F SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 5 (Cell) Ant A SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 12 Ant A SAR (W/kg)	Inter-Band ULCA Worst-case Combination SAR (W/kg)
	11+10	9+8	9+6	
Back	0.710	0.867	0.768	0.867

Table D-12
Simultaneous Transmission Scenario with Inter-Band ULCA and WLAN/BT (Body-worn at 1.5 cm)

	Configuration	Inter-Band ULCA Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Inter-Band ULCA + WLAN/BT Worst-Case Combinations SAR (W/kg)
Body-worn	Back	0.867	0.338	1.205



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Table D-13
Simultaneous Transmission Scenario of EN-DC (Body-Worn at 1.5 cm)

Configuration	NR Band n5 (Cell) Ant A + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n5 (Cell) Ant A + LTE Band 66/4 (AWS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 5 (Cell) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 12 Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 13 Ant A SAR (W/kg)	EN-DC Worst-case Combination SAR (W/kg)
	13+11	13+9	16+11	16+8	16+6	16+7	
Back	0.779	0.894	0.726	0.528	0.429	0.549	0.894

Table D-14
Simultaneous Transmission Scenario with EN-DC and WLAN/BT (Body-Worn at 1.5 cm)

	Configuration	EN-DC Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	EN-DC + WLAN/BT Worst-Case Combinations SAR (W/kg)
Body-worn	Back	0.894	0.338	1.232

D.5 Hotspot SAR Simultaneous Transmission Analysis

Table D-15
Simultaneous Transmission Scenarios of WLAN/BT (Hotspot at 1.0 cm)

Configuration	2.4 GHz WLAN Ant 2 at 14dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 at 12dBm SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO at 15 dBm SAR (W/kg)
	1	2	3	4	5	6	7	8	9
Back	0.189	0.401	0.477	0.287	0.134	0.108*	0.051	0.168	0.133
Front	0.189*	0.056	0.477*	0.287*	0.116	0.108*	0.051*	0.168*	0.133*
Top	0.189*	0.144	0.081	0.287*	0.024	-	-	0.168*	0.133*
Bottom	-	-	-	-	-	-	-	-	-
Right	-	-	-	-	-	-	-	-	-
Left	0.189*	0.016	0.374	0.287*	0.188	0.108	0.051*	0.168*	0.133*

Configuration	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm + 5 GHz WLAN MIMO at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz Bluetooth + 5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 at 14dBm + 5 GHz WLAN Ant 1 at 12dBm SAR (W/kg)	2.4 GHz Bluetooth + 2.4 GHz WLAN Ant 2 at 14dBm + 5 GHz WLAN MIMO at 15 dBm SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)
	3	6	8	4+9	5	5+2	5+6	5+8	5+1+7	5+1+9	
Back	0.477	0.108	0.168	0.420	0.134	0.535	0.242	0.302	0.374	0.456	0.535
Front	0.477	0.108	0.168	0.420	0.116	0.172	0.224	0.284	0.356	0.438	0.477
Top	0.081	0.000	0.168	0.420	0.024	0.168	0.024	0.192	0.213	0.346	0.420
Bottom	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Right	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-
Left	0.374	0.108	0.168	0.420	0.188	0.204	0.296	0.356	0.428	0.510	0.510



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Table D-16
Simultaneous Transmission Scenarios with WLAN/BT (Hotspot at 1.0 cm)

	Configuration	Ant A SAR (W/kg)	Ant B SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Ant A + WLAN/BT SAR (W/kg)	Ant B + WLAN/BT SAR (W/kg)
Hotspot SAR	Back	0.811	0.275	0.535	1.346	0.810
	Front	0.594	0.239	0.477	1.071	0.716
	Top	0.000	0.000	0.420	0.420	0.420
	Bottom	1.174	0.482	-	1.174	0.482
	Right	0.636	0.000	-	0.636	0.000
	Left	0.440	0.184	0.510	0.950	0.694

Table D-17
Standalone data for Inter-Band ULCA and EN-DC SAR (Hotspot at 1.0 cm)

Configuration	A	A	A	A	F	A	A	F
	LTE Band 12 SAR (W/kg)	LTE Band 13 SAR (W/kg)	LTE Band 26 (Cell) SAR (W/kg)	LTE Band 66/4 (AWS) SAR (W/kg)	LTE Band 4 (AWS) SAR (W/kg)	LTE Band 25 (PCS) SAR (W/kg)	NR Band n5 (Cell) SAR (W/kg)	NR Band n66 (AWS) SAR (W/kg)
	6	7	8	9	10	11	13	15
Back	0.255	0.407	0.497	0.497	0.103	0.422	0.488	0.457
Front	0.182	0.333	0.341	0.372	0.074	0.313	0.370	0.344
Top	-	-	-	-	0.173	-	-	0.787
Bottom	0.070	0.127	0.161	0.747	-	0.795	0.206	-
Right	0.169	0.272	0.352	0.045	0.023	0.031	0.436	0.189
Left	0.130	0.237	0.166	0.109	-	0.132	0.173	-

Table D-18
Simultaneous Transmission Scenario of Inter-Band ULCA (Hotspot at 1.0 cm)

Configuration	LTE Band 2 (PCS) Ant A + LTE Band 4 (AWS) Ant F SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 5 (Cell) Ant A SAR (W/kg)	LTE Band 66/4 (AWS) Ant A + LTE Band 12 Ant A SAR (W/kg)	Inter-Band ULCA Worst-case Combination SAR (W/kg)
	11+10	9+8	9+6	
Back	0.525	0.994	0.752	0.994
Front	0.387	0.713	0.554	0.713
Top	0.173	0.000	0.000	0.173
Bottom	0.795	0.908	0.817	0.908
Right	0.054	0.397	0.214	0.397
Left	0.132	0.275	0.239	0.275



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Table D-19
Simultaneous Transmission Scenario with Inter-Band ULCA and WLAN/BT (Hotspot at 1.0 cm)



	Configuration	Inter-Band ULCA Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Inter-Band ULCA + WLAN/BT Worst-Case Combinations SAR (W/kg)
Hotspot SAR	Back	0.994	0.535	1.529
	Front	0.713	0.477	1.190
	Top	0.173	0.420	0.593
	Bottom	0.908	-	0.908
	Right	0.397	-	0.397
	Left	0.275	0.510	0.785

Table D-20
Simultaneous Transmission Scenario of EN-DC (Hotspot at 1.0 cm)

Configuration	NR Band n5 (Cell) Ant A + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n5 (Cell) Ant A + LTE Band 66/4 (AWS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 2 (PCS) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 5 (Cell) Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 12 Ant A SAR (W/kg)	NR Band n66 (AWS) Ant F + LTE Band 13 Ant A SAR (W/kg)	EN-DC Worst-case Combination SAR (W/kg)
	13+11	13+9	15+11	15+8	15+6	15+7	
Back	0.910	0.985	0.879	0.954	0.712	0.864	0.985
Front	0.683	0.742	0.657	0.685	0.526	0.677	0.742
Top	0.000	0.000	0.787	0.787	0.787	0.787	0.787
Bottom	1.001	0.953	0.795	0.161	0.070	0.127	1.001
Right	0.467	0.481	0.220	0.541	0.358	0.461	0.541
Left	0.305	0.282	0.132	0.166	0.130	0.237	0.305

Table D-21
Simultaneous Transmission Scenario with EN-DC and WLAN/BT (Hotspot at 1.0 cm)

	Configuration	EN-DC Worst-case Combination SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	EN-DC + WLAN/BT Worst-Case Combinations SAR (W/kg)
Hotspot SAR	Back	0.985	0.535	1.520
	Front	0.742	0.477	1.219
	Top	0.787	0.420	1.207
	Bottom	1.001	-	1.001
	Right	0.541	-	0.541
	Left	0.305	0.510	0.815

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D.6 Phablet Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table D-22
Simultaneous Transmission Scenarios of WLAN/BT

Configuration	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)
	1	2
Back	0.774	1.027
Front	1.197*	1.331*
Top	-	1.331*
Bottom	-	-
Right	-	-
Left	1.197	1.331

Configuration	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)
	1	2	
Back	0.774	1.027	1.027
Front	1.197	1.331	1.331
Top	0.000	1.331	1.331
Bottom	0.000	0.000	-
Right	0.000	0.000	-
Left	1.197	1.331	1.331






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Table D-23
Simultaneous Transmission Scenarios with WLAN/BT

	Configuration	Ant A SAR (W/kg)	Ant B SAR (W/kg)	WLAN/BT Worst-case Combination SAR (W/kg)	Ant A + WLAN/BT SAR (W/kg)	Ant B + WLAN/BT SAR (W/kg)
Phablet SAR	Back	1.805	1.362	1.027	2.832	2.389
	Front	1.634	0.985	1.331	2.965	2.316
	Top	-	-	1.331	1.331	1.331
	Bottom	2.234	1.102	-	2.234	1.102
	Right	0.466	-	-	0.466	-
	Left	1.209	1.152	1.331	2.540	2.483

D.7 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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