

APPENDIX E: MULTI-TX AND ANTENNA SAR CONSIDERATIONS

E.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D04v01 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit.

E.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D04v01 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 physical test configuration is ≤ 1.6 W/kg. 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. Alternatively, simultaneous transmission SAR test exclusion may be evaluated using Total Exposure Ratio (TER).

Note:

This device is enabled with the manufacturer's time-averaged method of Tx power control for connectivity radios (WiFi, Bluetooth, NB U-NII and 802.15.4). Co-located connectivity antennas with significant overlap of RF exposure hotspots are grouped into a single cluster. There are three pre-defined antenna clusters (AC): AC0 (Ant WF5B), AC1 (Ant WF7, Ant WF9), and AC2 (Ant WF8).

When operating in the same antenna cluster, the compliance under dynamic transmission condition, including all supported simultaneous transmission scenarios, should be assessed and demonstrated in the TAS Report during algorithm validation. This applies to multiple antennas in the same antenna cluster or different modes transmitting simultaneously in the same antenna cluster. For the evaluation of simultaneous transmission analysis in this report, the highest SAR value across all modes in the same antenna cluster was considered for summation and most conservative to determine simultaneous SAR test exclusions.

The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission were treated independently for this configuration. See section E.4 for more information about the Spatial Separation Analysis.

*The SAR distributions for at least one of the antennas are spatially separated from the other antennas per FCC KDB Publication 248227 Section 6.1 procedures. Therefore, simultaneous transmission was treated independently for this configuration. See section E.5 for more information about the Spatial Separation Analysis.

E.3 Exposure Ratios

Exposure ratio (ER) for different transmitters is calculated as following:

$$ER_{SAR,n} = \frac{SAR_n}{SAR_{limit,n}}, \quad 10 \text{ MHz} < f_u \leq 6 \text{ GHz}$$

$$ER_{APD,n} = \frac{APD_v}{APD_{limit,v}}, \quad 6 \text{ GHz} < f_t \leq 10 \text{ GHz}$$

Where:

- SAR_n is the SAR value for the n -th transmitter/test frequency
- $SAR_{limit,n}$ is the basic restriction limit that is applicable to the n -th transmitter/test frequency
- APD_v is the APD value for the v -th transmitter/test frequency
- $APD_{limit,v}$ is the basic restriction limit that is applicable to the v -th transmitter/test frequency

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E.4 Body SAR Simultaneous Transmission Analysis

Table E-1

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.744	0.105	0.000	0.744*
	Top	0.381	0.184	0.343	0.000	0.000	0.724
	Bottom	0.024	0.016	0.021	0.020	0.000	0.065
	Right	0.606	0.744	0.000	0.742	0.000	0.744*
	Left	0.003	0.003	0.484	0.025	0.000	0.512

Table E-2

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.744	0.087	0.000	0.744*
	Top	0.381	0.054	0.343	0.000	0.000	0.724
	Bottom	0.024	0.003	0.021	0.021	0.000	0.066
	Right	0.606	0.096	0.000	0.238	0.000	0.844
	Left	0.003	0.000	0.484	0.006	0.000	0.493

Table E-3

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.744	0.738	0.000	0.744*
	Top	0.381	0.184	0.343	0.235	0.000	0.724
	Bottom	0.024	0.016	0.021	0.015	0.000	0.045
	Right	0.606	0.744	0.000	0.002	0.000	0.746
	Left	0.003	0.003	0.484	0.208	0.000	0.487

Table E-4

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.744	0.291	0.000	0.744*
	Top	0.381	0.054	0.343	0.065	0.000	0.724
	Bottom	0.024	0.003	0.021	0.006	0.000	0.045
	Right	0.606	0.096	0.000	0.000	0.000	0.606
	Left	0.003	0.000	0.484	0.107	0.000	0.487

Table E-5

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.716	0.105	0.000	0.742*
	Top	0.381	0.184	0.169	0.000	0.000	0.550
	Bottom	0.024	0.016	0.000	0.020	0.000	0.044
	Right	0.606	0.744	0.000	0.742	0.000	0.744*
	Left	0.003	0.003	0.029	0.025	0.000	0.057

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Table-6

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.716	0.087	0.000	0.742*
	Top	0.381	0.054	0.169	0.000	0.000	0.550
	Bottom	0.024	0.003	0.000	0.021	0.000	0.045
	Right	0.606	0.096	0.000	0.238	0.000	0.844
	Left	0.003	0.000	0.029	0.006	0.000	0.038

Table E-7

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 5 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.716	0.738	0.000	0.742*
	Top	0.381	0.184	0.169	0.235	0.000	0.616
	Bottom	0.024	0.016	0.000	0.015	0.000	0.039
	Right	0.606	0.744	0.000	0.002	0.000	0.746
	Left	0.003	0.003	0.029	0.208	0.000	0.211

Table E-8

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, 6 GHz WIFI MIMO and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.716	0.291	0.000	0.742*
	Top	0.381	0.054	0.169	0.065	0.000	0.550
	Bottom	0.024	0.003	0.000	0.006	0.000	0.030
	Right	0.606	0.096	0.000	0.000	0.000	0.606
	Left	0.003	0.000	0.029	0.107	0.000	0.110

Table E-9

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.441	0.530	0.595	0.069	0.000	0.595*
	Top	0.259	0.157	0.258	0.000	0.000	0.517
	Bottom	0.011	0.012	0.015	0.026	0.000	0.053
	Right	0.299	0.744	0.000	0.492	0.000	0.744*
	Left	0.005	0.003	0.453	0.007	0.000	0.465

Table E-10

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.441	0.530	0.595	0.739	0.000	0.739*
	Top	0.259	0.157	0.258	0.183	0.000	0.517
	Bottom	0.011	0.012	0.015	0.016	0.000	0.028
	Right	0.299	0.744	0.000	0.000	0.000	0.744
	Left	0.005	0.003	0.453	0.094	0.000	0.458

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Table E-11

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.441	0.530	0.504	0.069	0.000	0.530*
	Top	0.259	0.157	0.156	0.000	0.000	0.415
	Bottom	0.011	0.012	0.003	0.026	0.000	0.041
	Right	0.299	0.744	0.000	0.492	0.000	0.744*
	Left	0.005	0.003	0.002	0.007	0.000	0.014

Table E-12

Simultaneous Transmission Scenario with 2.4 GHz Bluetooth TXBF, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.441	0.530	0.504	0.739	0.000	0.739*
	Top	0.259	0.157	0.156	0.183	0.000	0.442
	Bottom	0.011	0.012	0.003	0.016	0.000	0.028
	Right	0.299	0.744	0.000	0.000	0.000	0.744
	Left	0.005	0.003	0.002	0.094	0.000	0.099

Table E-13

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.744	0.069	0.000	0.744*
	Top	0.381	0.157	0.343	0.000	0.000	0.724
	Bottom	0.024	0.012	0.021	0.026	0.000	0.071
	Right	0.606	0.744	0.000	0.492	0.000	0.744*
	Left	0.003	0.003	0.484	0.007	0.000	0.494

Table E-14

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz WIFI Ant WF7 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.744	0.739	0.000	0.744*
	Top	0.381	0.157	0.343	0.183	0.000	0.724
	Bottom	0.024	0.012	0.021	0.016	0.000	0.045
	Right	0.606	0.744	0.000	0.000	0.000	0.744
	Left	0.003	0.003	0.484	0.094	0.000	0.487

Table E-15

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.716	0.069	0.000	0.742*
	Top	0.381	0.157	0.169	0.000	0.000	0.550
	Bottom	0.024	0.012	0.000	0.026	0.000	0.050
	Right	0.606	0.744	0.000	0.492	0.000	0.744*
	Left	0.003	0.003	0.029	0.007	0.000	0.039

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Table E-16

Simultaneous Transmission Scenario with 2.4 GHz WIFI MIMO, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz WIFI Ant WF9 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.716	0.739	0.000	0.742*
	Top	0.381	0.157	0.169	0.183	0.000	0.564
	Bottom	0.024	0.012	0.000	0.016	0.000	0.040
	Right	0.606	0.744	0.000	0.000	0.000	0.744
	Left	0.003	0.003	0.029	0.094	0.000	0.097

Table E-17

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.105	0.562	0.441	0.595	0.000	0.595*
	Top	0.000	0.184	0.259	0.258	0.000	0.517
	Bottom	0.020	0.016	0.011	0.015	0.000	0.051
	Right	0.742	0.744	0.299	0.000	0.000	0.744*
	Left	0.025	0.003	0.005	0.453	0.000	0.483

Table E-18

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.087	0.263	0.441	0.595	0.000	0.595*
	Top	0.000	0.054	0.259	0.258	0.000	0.517
	Bottom	0.021	0.003	0.011	0.015	0.000	0.047
	Right	0.238	0.096	0.299	0.000	0.000	0.537
	Left	0.006	0.000	0.005	0.453	0.000	0.464

Table E-19

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.105	0.562	0.441	0.504	0.000	0.562*
	Top	0.000	0.184	0.259	0.156	0.000	0.415
	Bottom	0.020	0.016	0.011	0.003	0.000	0.039
	Right	0.742	0.744	0.299	0.000	0.000	0.744*
	Left	0.025	0.003	0.005	0.002	0.000	0.032

Table E-20

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.087	0.263	0.441	0.504	0.000	0.504*
	Top	0.000	0.054	0.259	0.156	0.000	0.415
	Bottom	0.021	0.003	0.011	0.003	0.000	0.035
	Right	0.238	0.096	0.299	0.000	0.000	0.537
	Left	0.006	0.000	0.005	0.002	0.000	0.013

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Table E-21

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	5 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF7 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.738	0.595	0.562	0.441	0.000	0.738*
	Top	0.235	0.258	0.184	0.259	0.000	0.517
	Bottom	0.015	0.015	0.016	0.011	0.000	0.031
	Right	0.002	0.000	0.744	0.299	0.000	0.746
	Left	0.208	0.453	0.003	0.005	0.000	0.458

Table-22

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	6 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF7 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.291	0.595	0.263	0.441	0.000	0.595*
	Top	0.065	0.258	0.054	0.259	0.000	0.517
	Bottom	0.006	0.015	0.003	0.011	0.000	0.026
	Right	0.000	0.000	0.096	0.299	0.000	0.299
	Left	0.107	0.453	0.000	0.005	0.000	0.458

Table E-23

Simultaneous Transmission Scenario with 5 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	5 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF9 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.738	0.504	0.562	0.441	0.000	0.738*
	Top	0.235	0.156	0.184	0.259	0.000	0.494
	Bottom	0.015	0.003	0.016	0.011	0.000	0.031
	Right	0.002	0.000	0.744	0.299	0.000	0.746
	Left	0.208	0.002	0.003	0.005	0.000	0.213

Table E-24

Simultaneous Transmission Scenario with 6 GHz WIFI MIMO, 2.4 GHz Bluetooth TXBF and WPT

Simult Tx	Configuration	6 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF9 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.291	0.504	0.263	0.441	0.000	0.945
	Top	0.065	0.156	0.054	0.259	0.000	0.415
	Bottom	0.006	0.003	0.003	0.011	0.000	0.017
	Right	0.000	0.000	0.096	0.299	0.000	0.299
	Left	0.107	0.002	0.000	0.005	0.000	0.112

Table E-25

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.105	0.562	0.441	0.000	0.744*
	Top	0.343	0.000	0.184	0.259	0.000	0.602
	Bottom	0.021	0.020	0.016	0.011	0.000	0.057
	Right	0.000	0.742	0.744	0.299	0.000	0.744*
	Left	0.484	0.025	0.003	0.005	0.000	0.514

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Table E-26

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.087	0.263	0.441	0.000	0.744*
	Top	0.343	0.000	0.054	0.259	0.000	0.602
	Bottom	0.021	0.021	0.003	0.011	0.000	0.053
	Right	0.000	0.238	0.096	0.299	0.000	0.537
	Left	0.484	0.006	0.000	0.005	0.000	0.495

Table E-27

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.738	0.562	0.441	0.000	0.744*
	Top	0.343	0.235	0.184	0.259	0.000	0.602
	Bottom	0.021	0.015	0.016	0.011	0.000	0.037
	Right	0.000	0.002	0.744	0.299	0.000	0.746
	Left	0.484	0.208	0.003	0.005	0.000	0.489

Table E-28

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.291	0.263	0.441	0.000	0.744*
	Top	0.343	0.065	0.054	0.259	0.000	0.602
	Bottom	0.021	0.006	0.003	0.011	0.000	0.032
	Right	0.000	0.000	0.096	0.299	0.000	0.299
	Left	0.484	0.107	0.000	0.005	0.000	0.489

Table E-29

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.105	0.595	0.000	0.742*
	Top	0.381	0.184	0.000	0.258	0.000	0.639
	Bottom	0.024	0.016	0.020	0.015	0.000	0.059
	Right	0.606	0.744	0.742	0.000	0.000	0.744*
	Left	0.003	0.003	0.025	0.453	0.000	0.481

Table E-30

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.087	0.595	0.000	0.742*
	Top	0.381	0.054	0.000	0.258	0.000	0.639
	Bottom	0.024	0.003	0.021	0.015	0.000	0.060
	Right	0.606	0.096	0.238	0.000	0.000	0.844
	Left	0.003	0.000	0.006	0.453	0.000	0.462

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Table E-31

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.105	0.504	0.000	0.742*
	Top	0.381	0.184	0.000	0.156	0.000	0.537
	Bottom	0.024	0.016	0.020	0.003	0.000	0.047
	Right	0.606	0.744	0.742	0.000	0.000	0.744*
	Left	0.003	0.003	0.025	0.002	0.000	0.030

Table E-32

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5B ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.087	0.504	0.000	0.742*
	Top	0.381	0.054	0.000	0.156	0.000	0.537
	Bottom	0.024	0.003	0.021	0.003	0.000	0.048
	Right	0.606	0.096	0.238	0.000	0.000	0.844
	Left	0.003	0.000	0.006	0.002	0.000	0.011

Table E-33

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.738	0.595	0.000	0.742*
	Top	0.381	0.184	0.235	0.258	0.000	0.639
	Bottom	0.024	0.016	0.015	0.015	0.000	0.039
	Right	0.606	0.744	0.002	0.000	0.000	0.746
	Left	0.003	0.003	0.208	0.453	0.000	0.456

Table E-34

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.291	0.595	0.000	0.742*
	Top	0.381	0.054	0.065	0.258	0.000	0.639
	Bottom	0.024	0.003	0.006	0.015	0.000	0.039
	Right	0.606	0.096	0.000	0.000	0.000	0.606
	Left	0.003	0.000	0.107	0.453	0.000	0.456

Table E-35

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.738	0.504	0.000	0.742*
	Top	0.381	0.184	0.235	0.156	0.000	0.616
	Bottom	0.024	0.016	0.015	0.003	0.000	0.039
	Right	0.606	0.744	0.002	0.000	0.000	0.746
	Left	0.003	0.003	0.208	0.002	0.000	0.211

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Table E-36

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.291	0.504	0.000	0.742*
	Top	0.381	0.054	0.065	0.156	0.000	0.537
	Bottom	0.024	0.003	0.006	0.003	0.000	0.030
	Right	0.606	0.096	0.000	0.000	0.000	0.606
	Left	0.003	0.000	0.107	0.002	0.000	0.110

Table E-37

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.105	0.562	0.441	0.000	0.716*
	Top	0.169	0.000	0.184	0.259	0.000	0.428
	Bottom	0.000	0.020	0.016	0.011	0.000	0.036
	Right	0.000	0.742	0.744	0.299	0.000	0.744*
	Left	0.029	0.025	0.003	0.005	0.000	0.059

Table E-38

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.087	0.263	0.441	0.000	0.716*
	Top	0.169	0.000	0.054	0.259	0.000	0.428
	Bottom	0.000	0.021	0.003	0.011	0.000	0.032
	Right	0.000	0.238	0.096	0.299	0.000	0.537
	Left	0.029	0.006	0.000	0.005	0.000	0.040

Table E-39

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.738	0.562	0.441	0.000	0.738*
	Top	0.169	0.235	0.184	0.259	0.000	0.494
	Bottom	0.000	0.015	0.016	0.011	0.000	0.031
	Right	0.000	0.002	0.744	0.299	0.000	0.746
	Left	0.029	0.208	0.003	0.005	0.000	0.213

Table E-40

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 2.4 GHz Bluetooth and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF8 ER	2.4 GHz Bluetooth Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.291	0.263	0.441	0.000	0.716*
	Top	0.169	0.065	0.054	0.259	0.000	0.428
	Bottom	0.000	0.006	0.003	0.011	0.000	0.017
	Right	0.000	0.000	0.096	0.299	0.000	0.299
	Left	0.029	0.107	0.000	0.005	0.000	0.112

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Table E-41

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.504	0.069	0.000	0.742*
	Top	0.381	0.157	0.156	0.000	0.000	0.537
	Bottom	0.024	0.012	0.003	0.026	0.000	0.053
	Right	0.606	0.744	0.000	0.492	0.000	0.744*
	Left	0.003	0.003	0.002	0.007	0.000	0.012

Table E-42

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF9 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.504	0.739	0.000	0.742*
	Top	0.381	0.157	0.156	0.183	0.000	0.564
	Bottom	0.024	0.012	0.003	0.016	0.000	0.040
	Right	0.606	0.744	0.000	0.000	0.000	0.744
	Left	0.003	0.003	0.002	0.094	0.000	0.097

Table E-43

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.595	0.069	0.000	0.742*
	Top	0.381	0.157	0.258	0.000	0.000	0.639
	Bottom	0.024	0.012	0.015	0.026	0.000	0.065
	Right	0.606	0.744	0.000	0.492	0.000	0.744*
	Left	0.003	0.003	0.453	0.007	0.000	0.463

Table E-44

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	2.4 GHz Bluetooth Ant WF7 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.595	0.739	0.000	0.742*
	Top	0.381	0.157	0.258	0.183	0.000	0.639
	Bottom	0.024	0.012	0.015	0.016	0.000	0.040
	Right	0.606	0.744	0.000	0.000	0.000	0.744
	Left	0.003	0.003	0.453	0.094	0.000	0.456

Table E-45

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.441	0.530	0.069	0.000	0.744*
	Top	0.343	0.259	0.157	0.000	0.000	0.602
	Bottom	0.021	0.011	0.012	0.026	0.000	0.059
	Right	0.000	0.299	0.744	0.492	0.000	0.744*
	Left	0.484	0.005	0.003	0.007	0.000	0.496

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Table E-46

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	NB U-NII Ant WF7 ER	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.739	0.441	0.530	0.000	0.744*
	Top	0.343	0.183	0.259	0.157	0.000	0.602
	Bottom	0.021	0.016	0.011	0.012	0.000	0.033
	Right	0.000	0.000	0.299	0.744	0.000	0.744
	Left	0.484	0.094	0.005	0.003	0.000	0.489

Table E-47

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.441	0.530	0.069	0.000	0.716*
	Top	0.169	0.259	0.157	0.000	0.000	0.428
	Bottom	0.000	0.011	0.012	0.026	0.000	0.038
	Right	0.000	0.299	0.744	0.492	0.000	0.744*
	Left	0.029	0.005	0.003	0.007	0.000	0.041

Table E-48

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 2.4 GHz Bluetooth, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	NB U-NII Ant WF7 ER	2.4 GHz Bluetooth Ant WF8 ER	NB U-NII Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.739	0.441	0.530	0.000	0.739*
	Top	0.169	0.183	0.259	0.157	0.000	0.442
	Bottom	0.000	0.016	0.011	0.012	0.000	0.028
	Right	0.000	0.000	0.299	0.744	0.000	0.744
	Left	0.029	0.094	0.005	0.003	0.000	0.099

Table E-49

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5B ER	802.15.4 Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.105	0.708	0.000	0.742*
	Top	0.381	0.184	0.000	0.391	0.000	0.772
	Bottom	0.024	0.016	0.020	0.023	0.000	0.067
	Right	0.606	0.744	0.742	0.003	0.000	0.747*
	Left	0.003	0.003	0.025	0.537	0.000	0.565

Table E-50

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5B ER	802.15.4 Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.087	0.708	0.000	0.742*
	Top	0.381	0.054	0.000	0.391	0.000	0.772
	Bottom	0.024	0.003	0.021	0.023	0.000	0.068
	Right	0.606	0.096	0.238	0.003	0.000	0.847
	Left	0.003	0.000	0.006	0.537	0.000	0.546

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Table E-51

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF5B ER	802.15.4 Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.105	0.693	0.000	0.742*
	Top	0.381	0.184	0.000	0.190	0.000	0.571
	Bottom	0.024	0.016	0.020	0.008	0.000	0.052
	Right	0.606	0.744	0.742	0.000	0.000	0.744*
	Left	0.003	0.003	0.025	0.004	0.000	0.032

Table E-52

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF5B ER	802.15.4 Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.087	0.693	0.000	0.742*
	Top	0.381	0.054	0.000	0.190	0.000	0.571
	Bottom	0.024	0.003	0.021	0.008	0.000	0.053
	Right	0.606	0.096	0.238	0.000	0.000	0.844
	Left	0.003	0.000	0.006	0.004	0.000	0.013

Table E-53

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF7 ER	802.15.4 Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.738	0.708	0.000	0.742*
	Top	0.381	0.184	0.235	0.391	0.000	0.772
	Bottom	0.024	0.016	0.015	0.023	0.000	0.047
	Right	0.606	0.744	0.002	0.003	0.000	0.747
	Left	0.003	0.003	0.208	0.537	0.000	0.540

Table E-54

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF7 ER	802.15.4 Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.291	0.708	0.000	0.742*
	Top	0.381	0.054	0.065	0.391	0.000	0.772
	Bottom	0.024	0.003	0.006	0.023	0.000	0.047
	Right	0.606	0.096	0.000	0.003	0.000	0.609
	Left	0.003	0.000	0.107	0.537	0.000	0.540

Table E-55

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF8 ER	5 GHz WIFI Ant WF7 ER	802.15.4 Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.562	0.738	0.693	0.000	0.742*
	Top	0.381	0.184	0.235	0.190	0.000	0.616
	Bottom	0.024	0.016	0.015	0.008	0.000	0.039
	Right	0.606	0.744	0.002	0.000	0.000	0.746
	Left	0.003	0.003	0.208	0.004	0.000	0.211

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Table E-56

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF8 ER	6 GHz WIFI Ant WF7 ER	802.15.4 Ant WF9 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.263	0.291	0.693	0.000	0.742*
	Top	0.381	0.054	0.065	0.190	0.000	0.571
	Bottom	0.024	0.003	0.006	0.008	0.000	0.032
	Right	0.606	0.096	0.000	0.000	0.000	0.606
	Left	0.003	0.000	0.107	0.004	0.000	0.110

Table E-57

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.105	0.562	0.437	0.000	0.744*
	Top	0.343	0.000	0.184	0.292	0.000	0.635
	Bottom	0.021	0.020	0.016	0.002	0.000	0.057
	Right	0.000	0.742	0.744	0.349	0.000	0.744*
	Left	0.484	0.025	0.003	0.002	0.000	0.512

Table E-58

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.087	0.263	0.437	0.000	0.744*
	Top	0.343	0.000	0.054	0.292	0.000	0.635
	Bottom	0.021	0.021	0.003	0.002	0.000	0.045
	Right	0.000	0.238	0.096	0.349	0.000	0.587
	Left	0.484	0.006	0.000	0.002	0.000	0.492

Table E-59

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.738	0.562	0.437	0.000	0.744*
	Top	0.343	0.235	0.184	0.292	0.000	0.635
	Bottom	0.021	0.015	0.016	0.002	0.000	0.037
	Right	0.000	0.002	0.744	0.349	0.000	0.746
	Left	0.484	0.208	0.003	0.002	0.000	0.487

Table E-60

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.291	0.263	0.437	0.000	0.744*
	Top	0.343	0.065	0.054	0.292	0.000	0.635
	Bottom	0.021	0.006	0.003	0.002	0.000	0.024
	Right	0.000	0.000	0.096	0.349	0.000	0.349
	Left	0.484	0.107	0.000	0.002	0.000	0.486

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Table E-61

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF5B ER	5 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.105	0.562	0.437	0.000	0.716*
	Top	0.169	0.000	0.184	0.292	0.000	0.461
	Bottom	0.000	0.020	0.016	0.002	0.000	0.036
	Right	0.000	0.742	0.744	0.349	0.000	0.744*
	Left	0.029	0.025	0.003	0.002	0.000	0.057

Table E-62

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF5B ER	6 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.087	0.263	0.437	0.000	0.716*
	Top	0.169	0.000	0.054	0.292	0.000	0.461
	Bottom	0.000	0.021	0.003	0.002	0.000	0.024
	Right	0.000	0.238	0.096	0.349	0.000	0.587
	Left	0.029	0.006	0.000	0.002	0.000	0.037

Table E-63

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 5 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	5 GHz WIFI Ant WF7 ER	5 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.738	0.562	0.437	0.000	0.738*
	Top	0.169	0.235	0.184	0.292	0.000	0.527
	Bottom	0.000	0.015	0.016	0.002	0.000	0.031
	Right	0.000	0.002	0.744	0.349	0.000	0.746
	Left	0.029	0.208	0.003	0.002	0.000	0.211

Table E-64

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 6 GHz WIFI MIMO, 802.15.4 and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	6 GHz WIFI Ant WF7 ER	6 GHz WIFI Ant WF8 ER	802.15.4 Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.291	0.263	0.437	0.000	0.716*
	Top	0.169	0.065	0.054	0.292	0.000	0.461
	Bottom	0.000	0.006	0.003	0.002	0.000	0.009
	Right	0.000	0.000	0.096	0.349	0.000	0.349
	Left	0.029	0.107	0.000	0.002	0.000	0.109

Table E-65

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	802.15.4 Ant WF7 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.708	0.069	0.000	0.742*
	Top	0.381	0.157	0.391	0.000	0.000	0.772
	Bottom	0.024	0.012	0.023	0.026	0.000	0.073
	Right	0.606	0.744	0.003	0.492	0.000	0.747*
	Left	0.003	0.003	0.537	0.007	0.000	0.547

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Table E-66

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	802.15.4 Ant WF7 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.708	0.739	0.000	0.742*
	Top	0.381	0.157	0.391	0.183	0.000	0.772
	Bottom	0.024	0.012	0.023	0.016	0.000	0.047
	Right	0.606	0.744	0.003	0.000	0.000	0.747
	Left	0.003	0.003	0.537	0.094	0.000	0.540

Table E-67

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	802.15.4 Ant WF9 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.693	0.069	0.000	0.742*
	Top	0.381	0.157	0.190	0.000	0.000	0.571
	Bottom	0.024	0.012	0.008	0.026	0.000	0.058
	Right	0.606	0.744	0.000	0.492	0.000	0.744*
	Left	0.003	0.003	0.004	0.007	0.000	0.014

Table E-68

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF8 ER	NB U-NII Ant WF8 ER	802.15.4 Ant WF9 ER	NB U-NII Ant WF7 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.742	0.530	0.693	0.739	0.000	0.742*
	Top	0.381	0.157	0.190	0.183	0.000	0.571
	Bottom	0.024	0.012	0.008	0.016	0.000	0.040
	Right	0.606	0.744	0.000	0.000	0.000	0.744
	Left	0.003	0.003	0.004	0.094	0.000	0.097

Table E-69

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	802.15.4 Ant WF8 ER	NB U-NII Ant WF8 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.437	0.530	0.069	0.000	0.744*
	Top	0.343	0.292	0.157	0.000	0.000	0.635
	Bottom	0.021	0.002	0.012	0.026	0.000	0.059
	Right	0.000	0.349	0.744	0.492	0.000	0.744*
	Left	0.484	0.002	0.003	0.007	0.000	0.494

Table E-70

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF7 ER	NB U-NII Ant WF7 ER	802.15.4 Ant WF8 ER	NB U-NII Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.744	0.739	0.437	0.530	0.000	0.744*
	Top	0.343	0.183	0.292	0.157	0.000	0.635
	Bottom	0.021	0.016	0.002	0.012	0.000	0.033
	Right	0.000	0.000	0.349	0.744	0.000	0.744
	Left	0.484	0.094	0.002	0.003	0.000	0.487

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Table E-71

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	802.15.4 Ant WF8 ER	NB U-NII Ant WF8 ER	NB U-NII Ant WF5B ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.437	0.530	0.069	0.000	0.716*
	Top	0.169	0.292	0.157	0.000	0.000	0.461
	Bottom	0.000	0.002	0.012	0.026	0.000	0.038
	Right	0.000	0.349	0.744	0.492	0.000	0.744*
	Left	0.029	0.002	0.003	0.007	0.000	0.039

Table E-72

Simultaneous Transmission Scenario with 2.4 GHz WIFI, 802.15.4, NB U-NII TXBF and WPT

Simult Tx	Configuration	2.4 GHz WIFI Ant WF9 ER	NB U-NII Ant WF7 ER	802.15.4 Ant WF8 ER	NB U-NII Ant WF8 ER	WPT ER	Σ ER
		1	2	3	4	5	1+2+3+4+5
Body SAR	Back	0.716	0.739	0.437	0.530	0.000	0.739*
	Top	0.169	0.183	0.292	0.157	0.000	0.475
	Bottom	0.000	0.016	0.002	0.012	0.000	0.028
	Right	0.000	0.000	0.349	0.744	0.000	0.744
	Left	0.029	0.094	0.002	0.003	0.000	0.097

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E.5 Spatial Separation Analysis

Per FCC KDB Publication 248227, antennas may be considered spatially separated when the aggregate SAR from multiple antennas at any location in the combined SAR distribution is either ≤ 1.2 W/kg where at least 90% of the SAR is attributed to a single SAR distribution or ≤ 0.4 W/kg where no more than one SAR distribution is contributing > 0.1 W/kg.

Spatial separation was determined by inspection of the area scan SAR distributions to confirm that at all locations, SAR was < 1.2 W/kg, where at least 90% of the SAR is attributed to a single SAR distribution. See below for illustrations of the spatial separated antennas considered.

E.5.1 Back Side Spatial Separation Analysis

Figure E-1
Back Side Spatial Separation for Antenna WF5B and Antenna WF8

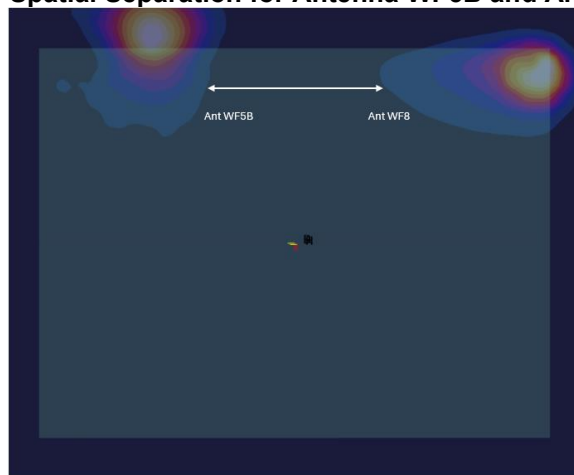
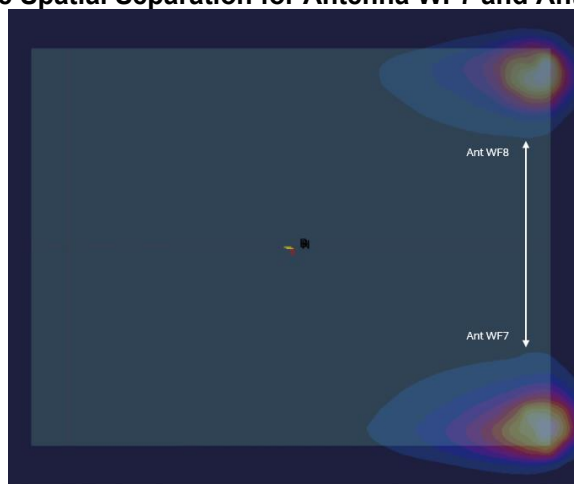


Figure E-2
Back Side Spatial Separation for Antenna WF7 and Antenna WF8



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Figure E-3
Back Side Spatial Separation for Antenna WF9 and Antenna WF8

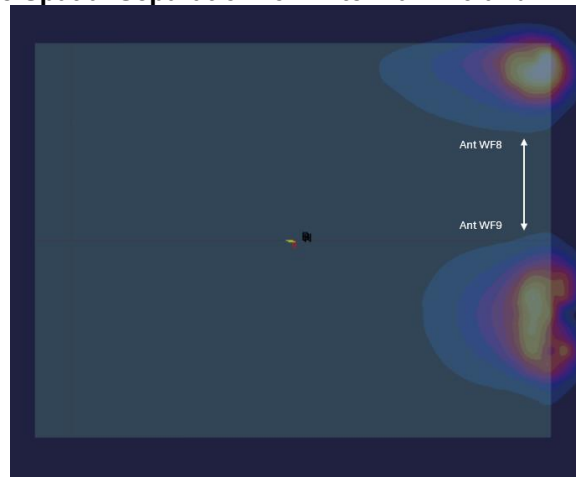
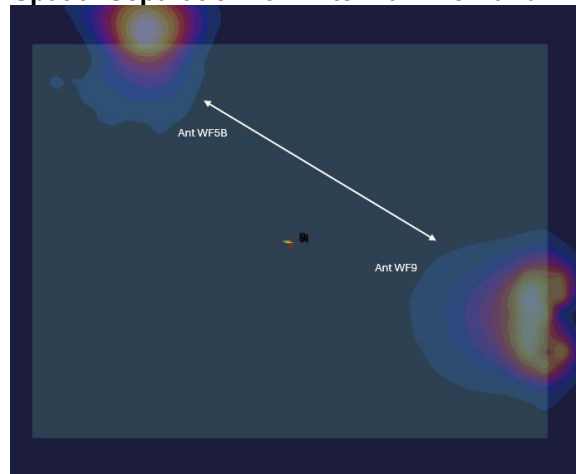
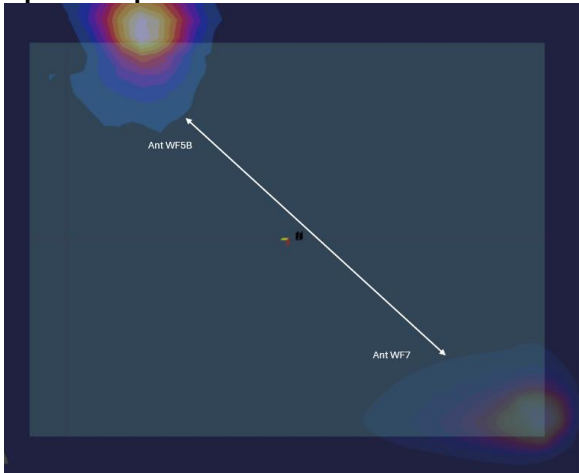


Figure E-4
Back Side Spatial Separation for Antenna WF5B and Antenna WF9



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Figure E-5
Back Side Spatial Separation for Antenna WF5B and Antenna WF7

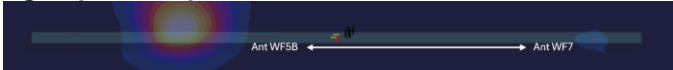


E.5.2 Right Edge Spatial Separation Analysis

Figure E-6
Right Edge Spatial Separation for Antenna WF5B and Antenna WF8



Figure E-7
Right Edge Spatial Separation for Antenna WF5B and Antenna WF7



E.6 Simultaneous Transmission Conclusion

The above numerical summed TER results for all the worst-case simultaneous transmission conditions were below the TER 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 D04v01.

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