11.4.1.2 Setup for NR Band

- Select waveform for Setting NR Band (PHY->PUSCH->Enable Transform Precoder)
  - Enable : DFT-s-OFDM, Disable : CP-OFDM

Figure-3

- Select operating band, BW, SCS and Channel.
- Turn the NR Cell On using “ON/OFF” Key.

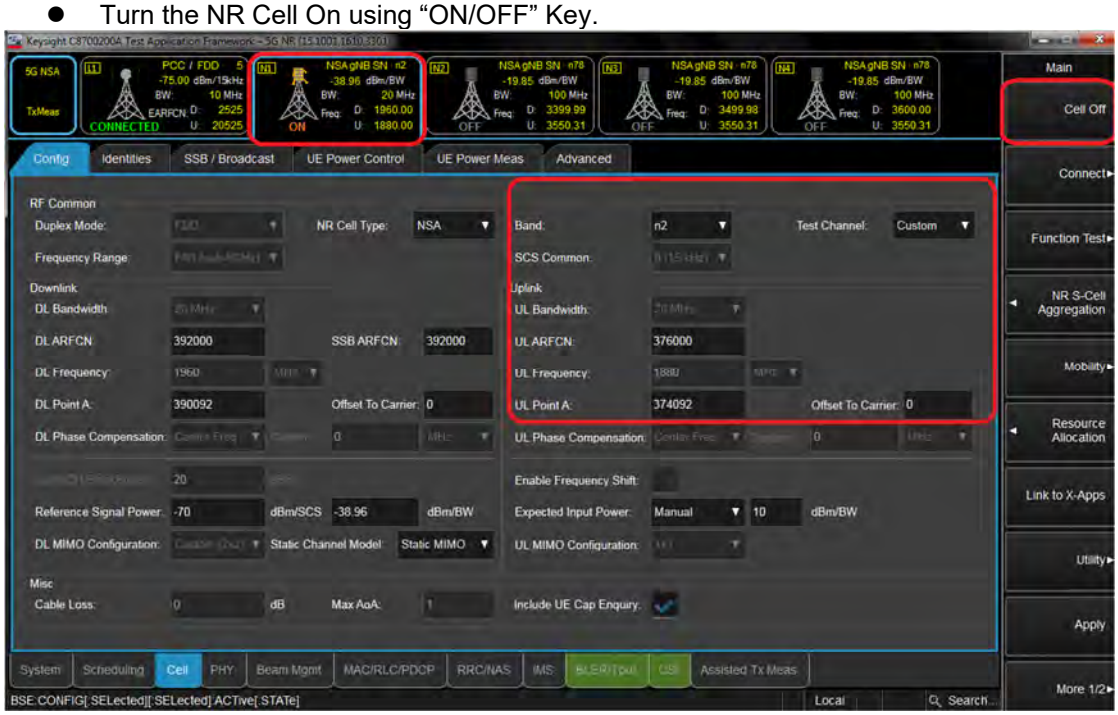


Figure-4

11.4.1.3 Connect NR S-Cell Aggregation

- Click NR S-Cell Aggregation
- Check the Cell 1's DL and UL box(PCC) and than Click Apply.
- Check the message summary If message shows NR Msg 5, It is connected.

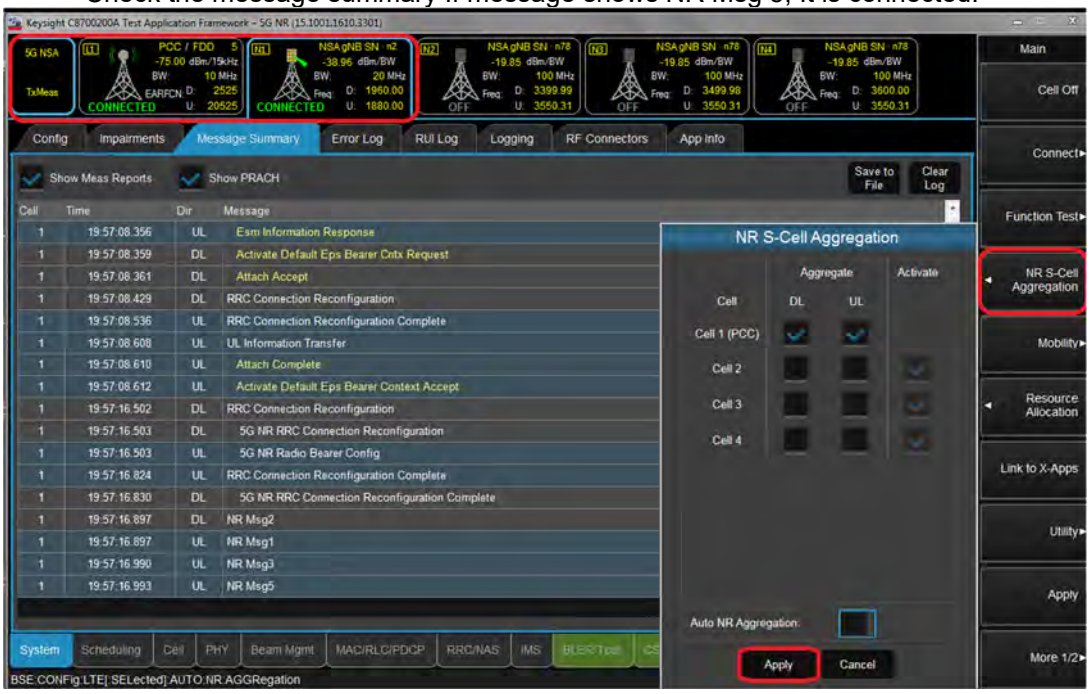


Figure-5

11.4.1.4 Max Power setting

- Click “Cell in the bottom of screen.
- Click “UE Power control” than change UE Power control mode to All Up bits.

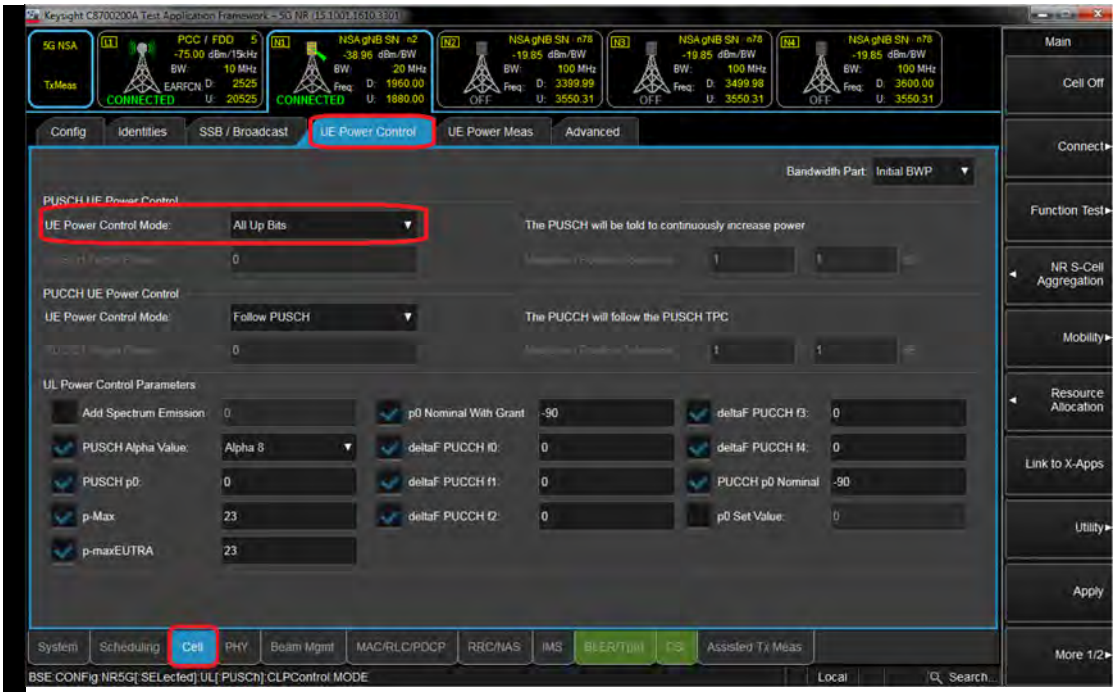


Figure-6

11.4.1.5 Selecting Start RB/Count/MCS

- Select the each test configurating (Start RB, Count, MCS).

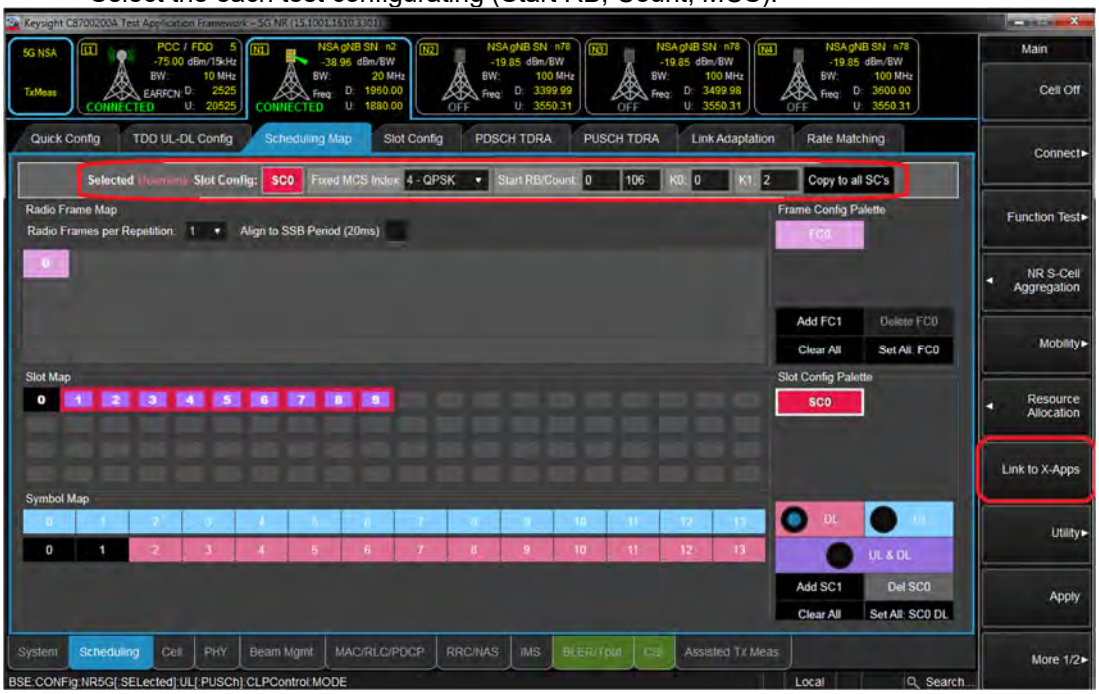


Figure-7

11.3.1.6 View Tx Power

- Click “Link to X-Apps.”(Please refer to Figure-7)
- Select “Channel Power”.

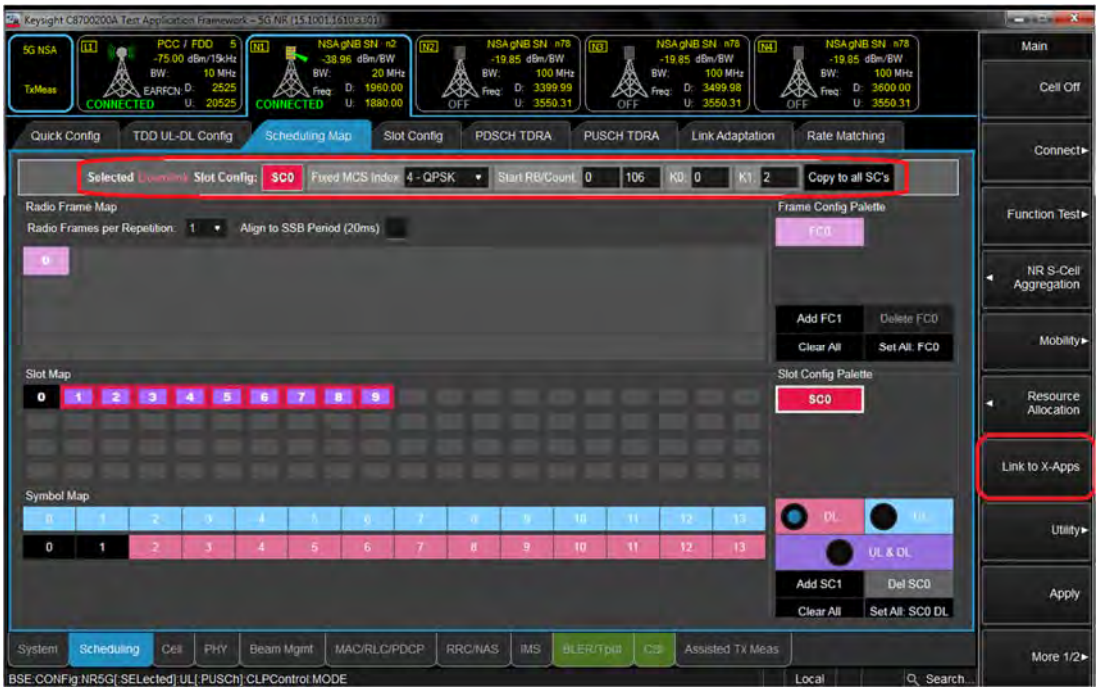

Main
Cell Off
Connect
Function Test
NR S-Cell Aggregation
Mobility
Resource Allocation
Link to X-Apps
Utility
Apply
More 1/2
Quick Config
TDD UL-DL Config
Scheduling Map
Slot Config
PDSCH TDRA
PUSCH TDRA
Link Adaptation
Rate Matching
Slot Config:
SC0
Fixed MCS Index
4 - QPSK
Start RB/Count
Copy to all SC's
Radio Frame Map
Radio Frames per Repetition:
Align to SSB Period (20ms)
Frame Config Palette
FC0
Add FC1
Delete FC0
Clear All
Set All: FC0
Slot Map
Slot Config Palette
SC0
Symbol Map
DL
UL
UL & DL
Add SC1
Del SC0
Clear All
Set All: SC0 DL
System
Scheduling
Cell
PHY
Beam Mgmt
MAC/RLC/PDCP
RRC/NAS
IMS
Assisted Tx Meas
Local
Search...

Figure-8

11.4.2 NR Band Maximum Conducted Power

[NR Band n2 Conducted Power]

NR Band n2 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						370500	376000	381500	
						1852.5 ㎒	1880 ㎒	1907.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	24.20	24.08	24.08	0
				1	13	24.31	24.12	24.10	0
				1	23	24.32	24.14	24.13	0
				12	0	23.48	23.35	23.32	1
				12	7	24.44	24.22	24.27	0
				12	13	23.51	23.31	23.36	1
				25	0	23.49	23.13	23.36	1
			16QAM	1	1	23.70	23.53	23.53	1
		CP	QPSK	1	1	22.93	22.77	22.76	1.5

NR Band n2 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371000	376000	381000	
						1855 ㎒	1880 ㎒	1905 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	24.33	24.16	24.18	0
				1	26	24.40	24.14	24.29	0
				1	50	24.27	24.10	24.14	0
				25	0	23.49	23.31	23.38	1
				25	14	24.39	24.26	24.33	0
				25	27	23.56	23.39	23.44	1
				50	0	23.54	23.36	23.39	1
			16QAM	1	1	23.81	23.61	23.60	1
		CP	QPSK	1	1	22.98	22.84	22.84	1.5

NR Band n2 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371500	376000	380500	
						1857.5 ㎒	1880 ㎒	1902.5 ㎒	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	24.32	24.17	24.15	0
				1	40	24.32	24.16	24.11	0
				1	77	24.31	24.02	24.16	0
				36	0	23.49	23.35	23.28	1
				36	22	24.43	24.21	24.25	0
				36	43	23.50	23.30	23.32	1
				75	0	23.53	23.31	23.30	1
			16QAM	1	1	23.78	23.62	23.63	1
		CP	QPSK	1	1	23.02	22.84	22.82	1.5

NR Band n2 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						372000	376000	380000	
						1860 ㎒	1880 ㎒	1900 ㎒	
20 ㎒	15	DFT-s OFDM	QPSK	1	1	24.30	24.61	24.51	0
				1	53	24.70	24.57	24.47	0
				1	104	24.58	24.50	24.11	0
				50	0	23.74	23.80	23.66	1
				50	28	24.64	24.55	24.46	0
				50	56	23.76	23.65	23.54	1
				100	0	23.72	23.67	23.56	1
			16QAM	1	1	23.49	23.51	23.61	1
		CP	QPSK	1	1	21.62	22.50	22.50	1.5

[NR Band n5 Conducted Power]

NR Band n5 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						165300	167300	169300	
						826.5 ㎒	836.5 ㎒	846.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	24.32	24.18	23.92	0
				1	13	24.15	24.04	23.79	0
				1	23	24.10	24.03	23.75	0
				12	0	23.43	23.37	23.12	1
				12	7	24.24	24.13	23.91	0
				12	13	23.32	23.21	23.01	1
				25	0	23.39	23.30	23.07	1
			16QAM	1	1	23.55	23.56	23.32	1
		CP	QPSK	1	1	22.89	22.80	22.59	1.5

NR Band n5 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						165800		168800	
						829 ㎒		844 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	24.14		24.01	0
				1	26	24.18		23.85	0
				1	50	24.14		23.77	0
				25	0	23.37		23.14	1
				25	14	24.23		23.97	0
				25	27	23.28		23.01	1
				50	0	23.36		23.08	1
			16QAM	1	1	23.58		23.30	1
		CP	QPSK	1	1	22.83		22.64	1.5

NR Band n5 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							167300		
							836.5 MHz		
15 MHz	15	DFT-s OFDM	QPSK	1	1		24.23		0
				1	40		24.08		0
				1	77		23.88		0
				36	0		23.44		1
				36	22		24.19		0
				36	43		23.16		1
				75	0		23.33		1
			16QAM	1	1		23.57		1
		CP	QPSK	1	1		22.85		1.5

NR Band n5 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							167300		
							836.5 MHz		
20 MHz	15	DFT-s OFDM	QPSK	1	1		24.44		0
				1	53		24.51		0
				1	104		24.20		0
				50	0		23.59		1
				50	28		24.56		0
				50	56		23.61		1
				100	0		23.65		1
			16QAM	1	1		23.47		1
		CP	QPSK	1	1		22.46		1.5

NR Band n5 (Cell) at 15 MHz/ 20 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n25 Conducted Power]

NR Band n25 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						370500	376500	382500	
						1852.5 MHz	1882.5 MHz	1912.5 MHz	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	24.21	24.11	24.02	0
				1	13	24.23	24.09	24.02	0
				1	23	24.25	24.10	24.03	0
				12	0	23.46	23.24	23.17	1
				12	7	24.39	24.23	24.11	0
				12	13	23.55	23.35	23.10	1
				25	0	23.48	23.28	23.20	1
			16QAM	1	1	23.64	23.50	22.32	1
		CP	QPSK	1	1	22.62	22.73	21.30	1.5

NR Band n25 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371000	376500	382000	
						1855 MHz	1882.5 MHz	1910 MHz	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	23.60	23.52	24.09	0
				1	26	23.63	23.70	24.40	0
				1	50	23.63	23.53	23.74	0
				25	0	22.74	22.72	23.26	1
				25	14	23.63	23.60	24.20	0
				25	27	22.77	22.71	23.30	1
				50	0	22.73	22.68	23.27	1
			16QAM	1	1	22.90	21.90	22.43	1
		CP	QPSK	1	1	22.16	22.06	22.67	1.5

NR Band n25 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371500	376500	381500	
						1857.5 MHz	1882.5 MHz	1907.5 MHz	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	23.56	23.56	24.00	0
				1	40	23.48	23.53	23.98	0
				1	77	23.58	23.66	24.07	0
				36	0	22.70	22.73	23.22	1
				36	22	23.59	23.63	24.08	0
				36	43	22.70	22.77	23.16	1
				75	0	22.69	22.73	23.22	1
			16QAM	1	1	22.92	22.90	23.26	1
		CP	QPSK	1	1	22.11	22.13	22.53	1.5

NR Band n25 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						372000	376500	381000	
						1860 MHz	1882.5 MHz	1905 MHz	
20 ㎒	15	DFT-s OFDM	QPSK	1	1	23.95	24.06	23.97	0
				1	53	23.92	23.97	24.05	0
				1	104	23.93	23.89	24.02	0
				50	0	23.04	23.04	23.12	1
				50	28	23.94	24.02	24.00	0
				50	56	23.04	22.96	23.19	1
				100	0	23.01	23.02	23.13	1
			16QAM	1	1	22.06	23.24	23.27	1
		CP	QPSK	1	1	22.43	22.51	22.65	1.5

[NR Band n41 Conducted Power]

NR Band n41 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 ㎒	2549.49 ㎒	2592.99 ㎒	2636.49 ㎒	2679.99 ㎒	
20 ㎒	30	DFT-s	QPSK	1	1	23.27	22.43	22.32	23.78	23.72	0
				1	26	23.34	22.13	22.05	23.68	23.54	0
				1	49	23.54	22.37	22.21	23.66	23.49	0
				25	0	22.36	20.79	20.76	22.78	22.66	1
				25	13	23.34	22.20	22.14	23.61	23.56	0
				25	26	22.50	20.71	20.68	22.72	22.62	1
				50	0	22.48	20.80	20.76	22.75	22.64	1
			16QAM	1	1	22.16	22.92	21.72	22.67	22.78	1
		CP	QPSK	1	1	22.09	22.40	22.33	22.29	22.42	1.5

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						503202	513468		523734	534000	
						2516.01 ㎒	2567.34 ㎒		2618.67 ㎒	2670 ㎒	
40 ㎒	30	DFT-s	QPSK	1	1	23.80	23.64		23.67	23.42	0
				1	53	23.92	23.75		23.60	23.52	0
				1	104	23.67	23.87		23.49	23.23	0
				50	0	22.97	22.59		22.63	22.58	1
				50	28	23.96	23.66		23.63	23.55	0
				50	56	22.72	22.74		22.57	22.36	1
				100	0	22.87	22.53		22.58	22.50	1
			16QAM	1	1	22.88	22.44		22.61	22.46	1
		CP	QPSK	1	1	22.41	22.04		22.07	22.05	1.5

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						504204		518598		532998		
						2521.02 ㎒		2592.99 ㎒		2664.99 ㎒		
50 ㎒	30	DFT-s	QPSK	1	1	23.77		23.27		23.49		0
				1	67	23.81		23.67		23.53		0
				1	131	23.51		23.62		23.13		0
				64	0	22.92		22.52		22.54		1
				64	35	23.90		23.72		23.48		0
				64	69	22.74		22.78		22.36		1
				128	0	22.89		22.66		22.44		1
			16QAM	1	1	22.92		22.36		22.38		1
		CP	QPSK	1	1	22.28		21.77		21.89		1.5

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						505200		518598		531996		
						2526 ㎒		2592.99 ㎒		2659.98 ㎒		
60 ㎒	30	DFT-s	QPSK	1	1	23.83		23.13		23.32		0
				1	81	23.82		23.83		23.61		0
				1	160	23.49		23.45		23.11		0
				81	0	22.86		22.58		22.53		1
				81	41	23.83		23.78		23.60		0
				81	81	22.70		22.73		22.35		1
				162	0	22.81		22.64		22.50		1
			16QAM	1	1	22.83		22.16		22.15		1
		CP	QPSK	1	1	22.32		21.69		21.73		1.5

NR Band n41 _80 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						507204				529998	
						2536.02 ㎒				2649.99 ㎒	
80 ㎒	30	DFT-s	QPSK	1	1	23.72				23.62	0
				1	109	23.74				23.68	0
				1	215	23.65				23.09	0
				108	0	22.85				22.48	1
				108	55	23.73				23.58	0
				108	109	22.56				22.32	1
				216	0	22.57				22.46	1
			16QAM	1	1	22.80				22.59	1
		CP	QPSK	1	1	22.30				22.09	1.5

NR Band n41 _90 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						508200				528996	
						2541 ㎒				2644.98 ㎒	
90 ㎒	30	DFT-s	QPSK	1	1	23.73				23.45	0
				1	123	23.72				23.66	0
				1	243	23.68				23.04	0
				120	0	22.74				22.47	1
				120	63	23.66				23.61	0
				120	125	22.51				22.41	1
				243	0	22.57				22.47	1
			16QAM	1	1	22.97				22.66	1
		CP	QPSK	1	1	22.30				22.01	1.5

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
								518598			
								2592.99 ㎒			
100 ㎒	30	DFT-s	QPSK	1	1			24.00			0
				1	137			23.76			0
				1	271			23.77			0
				135	0			22.87			1
				135	69			23.71			0
				135	138			22.82			1
				270	0			22.87			1
			16QAM	1	1			23.02			1
		CP	QPSK	1	1			22.62			1.5

NR Band n41 at 100 ㎒ Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n66 Conducted Power]

NR Band n66 _5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						342500	346820	351160	355500	
						1712.5 ㎒	1734.1 ㎒	1755.8 ㎒	1777.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	24.50	24.32	24.17	24.13	0
				1	13	24.44	24.33	24.17	24.15	0
				1	23	24.45	24.30	24.13	24.10	0
				12	0	23.63	23.50	23.39	23.30	1
				12	7	24.56	24.42	24.35	24.23	0
				12	13	23.63	23.52	23.36	23.31	1
				25	0	23.65	23.49	23.45	23.31	1
			16QAM	1	1	23.78	23.63	23.61	23.50	1
		CP	QPSK	1	1	23.08	22.68	22.54	22.70	1.5

NR Band n66 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						343000	347000	351000	355000	
						1715 ㎒	1735 ㎒	1755 ㎒	1775 ㎒	
10 ㎒	15	DFT-s OFDM	PI/2 BPSK	1	1	24.52	24.41	24.23	24.17	0
				1	26	24.71	24.52	24.36	24.21	0
				1	50	24.43	24.32	24.13	24.05	0
				25	0	23.69	23.55	23.42	23.35	1
				25	14	24.60	24.44	24.30	24.20	0
				25	27	23.68	23.45	23.36	23.27	1
				50	0	23.67	23.58	23.44	23.28	1
			16QAM	1	1	23.88	23.82	23.63	23.58	1
		CP	QPSK	1	1	23.24	23.12	23.01	22.92	1.5

NR Band n66 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						343500	347160	350820	354500	
						1717.5 MHz	1735.8 MHz	1754.1 MHz	1772.5 MHz	
15 MHz	15	DFT-s OFDM	QPSK	1	1	24.54	24.43	24.31	24.19	0
				1	40	24.40	24.35	24.14	24.13	0
				1	77	24.45	24.31	24.22	24.13	0
				36	0	23.67	23.63	23.45	23.38	1
				36	22	24.55	24.45	24.33	24.24	0
				36	43	23.62	23.53	23.37	23.29	1
				75	0	23.65	23.61	23.40	23.37	1
			16QAM	1	1	23.83	23.86	23.66	23.54	1
		CP	QPSK	1	1	23.18	23.13	23.00	22.79	1.5

NR Band n66 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						344000	349000		354000	
						1720 MHz	1745 MHz		1770 MHz	
20 MHz	15	DFT-s OFDM	QPSK	1	1	24.61	24.52		24.32	0
				1	53	24.48	24.31		24.15	0
				1	104	24.43	24.23		24.18	0
				50	0	23.73	23.62		23.40	1
				50	28	24.58	24.40		24.29	0
				50	56	23.63	23.55		23.31	1
				100	0	23.66	23.54		23.39	1
			16QAM	1	1	23.93	23.85		23.63	1
		CP	QPSK	1	1	23.26	23.09		22.95	1.5

[NR Band n71 Conducted Power]

NR Band n71 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133100	136100	139100	
						665.5 ㎒	680.5 ㎒	695.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	24.37	24.51	24.55	0
				1	13	24.26	24.42	24.43	0
				1	23	24.24	24.36	24.34	0
				12	0	23.53	23.55	23.75	1
				12	7	24.39	24.44	24.53	0
				12	13	23.43	23.46	23.63	1
				25	0	23.46	23.54	23.70	1
			16QAM	1	1	23.70	23.80	23.91	1
		CP	QPSK	1	1	23.04	23.11	23.30	1.5

NR Band n71 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133600	136100	138600	
						668 ㎒	680.5 ㎒	693 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	24.32	24.39	24.43	0
				1	26	24.39	24.51	24.72	0
				1	50	24.21	24.43	24.43	0
				25	0	23.55	23.63	23.71	1
				25	14	24.37	24.43	24.53	0
				25	27	23.39	23.57	23.57	1
				50	0	23.47	23.51	23.72	1
			16QAM	1	1	23.64	23.80	23.80	1
		CP	QPSK	1	1	22.97	23.11	23.13	1.5

NR Band n71 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						134100		138100	
						670.5 ㎒		690.5 ㎒	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	24.26		24.51	0
				1	40	24.22		24.49	0
				1	77	24.39		24.43	0
				36	0	23.54		23.71	1
				36	22	24.38		24.58	0
				36	43	23.43		23.59	1
				75	0	23.50		23.71	1
			16QAM	1	1	23.62		23.82	1
		CP	QPSK	1	1	22.95		23.19	1.5

NR Band n71 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 ㎒		
20 ㎒	15	DFT-s OFDM	QPSK	1	1		24.33		0
				1	53		24.60		0
				1	104		24.46		0
				50	0		23.65		1
				50	28		24.49		0
				50	56		23.63		1
				100	0		23.45		1
			16QAM	1	1		23.67		1
		CP	QPSK	1	1		22.91		1.5

NR Band n71 at 20 ㎒ Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

11.4.3 NR Band Reduced Conducted Power (Grip sensor activated)

[NR Band n2 Conducted Power]

NR Band n2 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						370500	376000	381500	
						1852.5 ㎒	1880 ㎒	1907.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	14.33	14.16	14.13	0
				1	13	14.34	14.14	14.12	0
				1	23	14.40	14.13	14.17	0
				12	0	14.47	14.23	14.25	0
				12	7	14.51	14.29	14.28	0
				12	13	14.48	14.29	14.31	0
				25	0	14.42	14.28	14.28	0
			16QAM	1	1	14.55	14.46	14.48	0
		CP	QPSK	1	1	14.35	14.19	14.21	0

NR Band n2 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371000	376000	381000	
						1855 ㎒	1880 ㎒	1905 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	14.37	14.16	14.20	0
				1	26	14.40	14.16	14.34	0
				1	50	14.34	14.14	14.15	0
				25	0	14.47	14.28	14.32	0
				25	14	14.50	14.28	14.36	0
				25	27	14.55	14.32	14.39	0
				50	0	14.56	14.33	14.31	0
			16QAM	1	1	14.78	14.52	14.53	0
		CP	QPSK	1	1	14.47	14.24	14.24	0

NR Band n2 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371500	376000	380500	
						1857.5 ㎒	1880 ㎒	1902.5 ㎒	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	14.44	14.25	14.23	0
				1	40	14.38	14.17	14.21	0
				1	77	14.36	14.10	14.17	0
				36	0	14.52	14.37	14.33	0
				36	22	14.52	14.31	14.36	0
				36	43	14.53	14.28	14.36	0
				75	0	14.55	14.36	14.37	0
			16QAM	1	1	14.73	14.63	14.57	0
		CP	QPSK	1	1	14.49	14.35	14.24	0

NR Band n2 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						372000	376000	380000	
						1860 ㎒	1880 ㎒	1900 ㎒	
20 ㎒	15	DFT-s OFDM	QPSK	1	1	14.71	14.69	14.60	0
				1	53	14.66	14.62	14.62	0
				1	104	14.56	14.55	14.39	0
				50	0	14.72	14.65	14.56	0
				50	28	14.66	14.70	14.54	0
				50	56	14.67	14.59	14.55	0
				100	0	14.69	14.67	14.61	0
			16QAM	1	1	14.65	14.52	14.23	0
		CP	QPSK	1	1	13.71	13.72	13.71	0

[NR Band n5 Conducted Power]

NR Band n5 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						165300	167300	169300	
						826.5 ㎒	836.5 ㎒	846.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	16.40	16.30	16.04	0
				1	13	16.25	16.23	15.89	0
				1	23	16.22	16.17	15.87	0
				12	0	16.42	16.36	16.08	0
				12	7	16.33	16.29	16.00	0
				12	13	16.32	16.25	15.93	0
				25	0	16.38	16.29	16.06	0
			16QAM	1	1	16.51	16.45	16.32	0
		CP	QPSK	1	1	16.45	16.36	16.14	0

NR Band n5 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						165800		168800	
						829 ㎒		844 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	16.29		16.13	0
				1	26	16.33		15.98	0
				1	50	16.28		15.88	0
				25	0	16.47		16.22	0
				25	14	16.43		16.13	0
				25	27	16.31		16.04	0
				50	0	16.40		16.14	0
			16QAM	1	1	16.53		16.30	0
		CP	QPSK	1	1	16.33		16.12	0

NR Band n5 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							167300		
							836.5 ㎒		
15 ㎒	15	DFT-s OFDM	QPSK	1	1		16.33		0
				1	40		16.20		0
				1	77		16.03		0
				36	0		16.42		0
				36	22		16.31		0
				36	43		16.23		0
				75	0		16.36		0
			16QAM	1	1		16.56		0
		CP	QPSK	1	1		16.31		0

NR Band n5 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							167300		
							836.5 ㎒		
20 ㎒	15	DFT-s OFDM	QPSK	1	1		16.53		0
				1	53		16.74		0
				1	104		16.60		0
				50	0		16.67		0
				50	28		16.71		0
				50	56		16.69		0
				100	0		16.75		0
			16QAM	1	1		16.01		0
		CP	QPSK	1	1		16.01		0

NR Band n5 (Cell) at 15 ㎒/ 20 ㎒ Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n25 Conducted Power]

NR Band n25 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						370500	376500	382500	
						1852.5 MHz	1882.5 MHz	1912.5 MHz	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	14.35	14.11	14.13	0
				1	13	14.40	14.11	14.14	0
				1	23	14.41	14.17	14.06	0
				12	0	14.48	14.24	14.22	0
				12	7	14.53	14.25	14.27	0
				12	13	14.57	14.30	14.30	0
				25	0	14.52	14.28	14.24	0
			16QAM	1	1	14.67	14.45	14.31	0
		CP	QPSK	1	1	14.43	14.22	14.22	0

NR Band n25 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371000	376500	382000	
						1855 MHz	1882.5 MHz	1910 MHz	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	13.66	13.58	14.10	0
				1	26	13.64	13.82	14.31	0
				1	50	13.58	13.64	14.19	0
				25	0	13.65	13.74	14.25	0
				25	14	13.74	13.78	14.32	0
				25	27	13.70	13.81	14.34	0
				50	0	13.67	13.77	14.30	0
			16QAM	1	1	13.90	13.90	14.30	0
		CP	QPSK	1	1	13.60	13.61	14.07	0

NR Band n25 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						371500	376500	381500	
						1857.5 MHz	1882.5 MHz	1907.5 MHz	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	13.61	13.68	14.10	0
				1	40	13.54	13.66	14.13	0
				1	77	13.50	13.80	14.12	0
				36	0	13.67	13.82	14.26	0
				36	22	13.64	13.83	14.27	0
				36	43	13.63	13.71	14.23	0
				75	0	13.66	13.81	14.30	0
			16QAM	1	1	13.84	13.92	14.33	0
		CP	QPSK	1	1	13.64	13.70	14.07	0

NR Band n25 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						372000	376500	381000	
						1860 MHz	1882.5 MHz	1905 MHz	
20 ㎒	15	DFT-s OFDM	QPSK	1	1	14.02	14.01	14.05	0
				1	53	13.99	14.14	14.11	0
				1	104	13.98	13.92	14.03	0
				50	0	14.12	14.03	14.10	0
				50	28	14.10	14.16	14.12	0
				50	56	14.08	13.99	14.14	0
				100	0	14.13	13.98	14.21	0
			16QAM	1	1	14.05	14.24	14.24	0
		CP	QPSK	1	1	14.31	14.35	14.51	0

[NR Band n41 Conducted Power]

NR Band n41 _20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						501204	509898	518598	527298	535998	
						2506.02 ㎒	2549.49 ㎒	2592.99 ㎒	2636.49 ㎒	2679.99 ㎒	
20 ㎒	30	DFT-s	QPSK	1	1	13.54	13.75	13.72	13.79	13.79	0
				1	26	13.51	13.57	13.59	13.69	13.70	0
				1	49	13.70	13.58	13.57	13.66	13.53	0
				25	0	13.47	13.72	13.65	13.73	13.77	0
				25	13	13.52	13.65	13.55	13.66	13.77	0
				25	26	13.67	13.61	13.61	13.67	13.72	0
				50	0	13.49	13.62	13.61	13.73	13.74	0
			16QAM	1	1	13.43	13.71	13.75	13.77	13.71	0
		CP	QPSK	1	1	13.47	13.60	13.66	13.86	13.81	0

NR Band n41 _40 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						503202	513468		523734	534000	
						2516.01 ㎒	2567.34 ㎒		2618.67 ㎒	2670 ㎒	
40 ㎒	30	DFT-s	QPSK	1	1	13.80	14.07		14.07	14.09	0
				1	53	13.79	13.94		13.98	13.85	0
				1	104	14.04	13.82		13.92	13.74	0
				50	0	13.86	13.93		14.05	13.94	0
				50	28	14.07	13.97		14.13	13.97	0
				50	56	14.14	13.96		13.91	13.81	0
				100	0	14.07	14.02		14.09	14.03	0
			16QAM	1	1	13.71	14.16		14.21	14.15	0
		CP	QPSK	1	1	13.79	14.08		14.05	14.14	0

NR Band n41 _50 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						504204		518598		532998		
						2521.02 ㎒		2592.99 ㎒		2664.99 ㎒		
50 ㎒	30	DFT-s	QPSK	1	1	13.30		13.43		13.83		0
				1	67	13.56		13.47		13.47		0
				1	131	13.63		13.56		13.69		0
				64	0	13.55		13.66		13.58		0
				64	35	13.65		13.63		13.49		0
				64	69	13.65		13.46		13.43		0
				128	0	13.73		13.59		13.48		0
			16QAM	1	1	13.26		13.48		13.65		0
		CP	QPSK	1	1	13.31		13.64		13.78		0

NR Band n41 _60 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)						MPR [dB]
						505200		518598		531996		
						2526 ㎒		2592.99 ㎒		2659.98 ㎒		
60 ㎒	30	DFT-s	QPSK	1	1	13.32		13.45		13.67		0
				1	81	13.64		13.61		13.56		0
				1	160	13.68		13.51		13.32		0
				81	0	13.52		13.66		13.77		0
				81	41	13.64		13.43		13.64		0
				81	81	13.86		13.67		13.47		0
				162	0	13.71		13.75		13.74		0
			16QAM	1	1	13.28		13.47		13.69		0
		CP	QPSK	1	1	13.28		13.63		13.81		0

NR Band n41 _80 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						507204				529998	
						2536.02 MHz				2649.99 MHz	
80 MHz	30	DFT-s	QPSK	1	1	13.54				13.88	0
				1	109	13.81				13.64	0
				1	215	13.68				13.54	0
				108	0	13.65				13.81	0
				108	55	13.84				13.68	0
				108	109	13.76				13.56	0
				216	0	13.72				13.78	0
			16QAM	1	1	13.59				13.87	0
		CP	QPSK	1	1	13.45				13.88	0

NR Band n41 _90 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
						508200				528996	
						2541 MHz				2644.98 MHz	
90 MHz	30	DFT-s	QPSK	1	1	13.64				13.75	0
				1	123	13.82				13.56	0
				1	243	13.53				13.61	0
				120	0	13.53				13.66	0
				120	63	13.88				13.83	0
				120	125	13.63				13.60	0
				243	0	13.79				13.88	0
			16QAM	1	1	13.33				13.76	0
		CP	QPSK	1	1	13.33				13.77	0

NR Band n41 _100 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)					MPR [dB]
								518598			
								2592.99 ㎒			
100 ㎒	30	DFT-s	QPSK	1	1			13.56			0
				1	137			13.48			0
				1	271			13.30			0
				135	0			13.46			0
				135	69			13.50			0
				135	138			13.42			0
				270	0			13.24			0
			16QAM	1	1			13.55			0
		CP	QPSK	1	1			13.86			0

NR Band n41 at 100 ㎒ Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

[NR Band n66 Conducted Power]

NR Band n66 _5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						342500	346820	351160	355500	
						1712.5 ㎒	1734.1 ㎒	1755.8 ㎒	1777.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	14.51	14.36	14.26	14.16	0
				1	13	14.47	14.42	14.26	14.18	0
				1	23	14.45	14.33	14.23	14.11	0
				12	0	14.57	14.53	14.35	14.3	0
				12	7	14.60	14.50	14.39	14.29	0
				12	13	14.58	14.48	14.39	14.3	0
				25	0	14.62	14.50	14.40	14.27	0
			16QAM	1	1	14.74	14.67	14.55	14.4	0
		CP	QPSK	1	1	14.45	14.06	14.02	14.07	0

NR Band n66 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						343000	347000	351000	355000	
						1715 ㎒	1735 ㎒	1755 ㎒	1775 ㎒	
10 ㎒	15	DFT-s OFDM	PI/2 BPSK	1	1	14.54	14.51	14.32	14.19	0
				1	26	14.71	14.65	14.50	14.25	0
				1	50	14.40	14.34	14.20	14.15	0
				25	0	14.65	14.59	14.42	14.23	0
				25	14	14.65	14.56	14.43	14.16	0
				25	27	14.64	14.57	14.43	14.20	0
				50	0	14.67	14.53	14.37	14.26	0
			16QAM	1	1	14.82	14.71	14.57	14.37	0
		CP	QPSK	1	1	14.61	14.63	14.45	14.23	0

NR Band n66 _ 15 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						343500	347160	350820	354500	
						1717.5 MHz	1735.8 MHz	1754.1 MHz	1772.5 MHz	
15 MHz	15	DFT-s OFDM	QPSK	1	1	14.55	14.50	14.33	14.2	0
				1	40	14.44	14.32	14.22	14.07	0
				1	77	14.45	14.36	14.23	14.11	0
				36	0	14.61	14.50	14.39	14.28	0
				36	22	14.60	14.51	14.33	14.17	0
				36	43	14.54	14.41	14.27	14.23	0
				75	0	14.58	14.49	14.34	14.27	0
			16QAM	1	1	14.81	14.78	14.60	14.48	0
		CP	QPSK	1	1	14.63	14.53	14.32	14.24	0

NR Band n66 _ 20 MHz Bandwidth

Bandwidth	SCS(kHz)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)				MPR [dB]
						344000	349000		354000	
						1720 MHz	1745 MHz		1770 MHz	
20 MHz	15	DFT-s OFDM	QPSK	1	1	14.67	14.54		14.29	0
				1	53	14.55	14.33		14.10	0
				1	104	14.45	14.33		14.09	0
				50	0	14.73	14.57		14.28	0
				50	28	14.63	14.46		14.26	0
				50	56	14.56	14.48		14.24	0
				100	0	14.66	14.53		14.33	0
			16QAM	1	1	14.91	14.74		14.53	0
		CP	QPSK	1	1	14.66	14.54		14.29	0

[NR Band n71 Conducted Power]

NR Band n71 _ 5 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133100	136100	139100	
						665.5 ㎒	680.5 ㎒	695.5 ㎒	
5 ㎒	15	DFT-s OFDM	QPSK	1	1	14.06	14.16	14.31	0
				1	13	13.88	14.06	14.17	0
				1	23	13.83	14.07	14.07	0
				12	0	14.04	14.26	14.36	0
				12	7	13.98	14.21	14.28	0
				12	13	13.91	14.13	14.25	0
				25	0	14.02	14.18	14.33	0
			16QAM	1	1	14.22	14.41	14.25	0
		CP	QPSK	1	1	14.04	14.20	14.34	0

NR Band n71 _ 10 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						133600	136100	138600	
						668 ㎒	680.5 ㎒	693 ㎒	
10 ㎒	15	DFT-s OFDM	QPSK	1	1	13.91	14.01	14.11	0
				1	26	14.13	14.25	14.35	0
				1	50	13.76	14.04	14.13	0
				25	0	14.08	14.20	14.37	0
				25	14	14.02	14.09	14.22	0
				25	27	14.01	14.01	14.13	0
				50	0	14.02	14.15	14.22	0
			16QAM	1	1	14.23	14.31	14.35	0
		CP	QPSK	1	1	13.99	14.07	14.16	0

NR Band n71 _ 15 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
						134100		138100	
						670.5 ㎒		690.5 ㎒	
15 ㎒	15	DFT-s OFDM	QPSK	1	1	13.92		14.25	0
				1	40	13.95		14.25	0
				1	77	14.00		14.20	0
				36	0	14.14		14.38	0
				36	22	14.09		14.33	0
				36	43	14.05		14.37	0
				75	0	14.11		14.36	0
			16QAM	1	1	14.18		14.51	0
		CP	QPSK	1	1	14.02		14.33	0

NR Band n71 _ 20 ㎒ Bandwidth

Bandwidth	SCS(㎑)	OFDM	Modulation	RB Size	RB Offset	Max. Average Power (dBm)			MPR [dB]
							136100		
							680.5 ㎒		
20 ㎒	15	DFT-s OFDM	QPSK	1	1		13.78		0
				1	53		14.02		0
				1	104		13.92		0
				50	0		13.87		0
				50	28		13.88		0
				50	56		13.92		0
				100	0		13.95		0
			16QAM	1	1		13.94		0
		CP	QPSK	1	1		13.71		0

NR Band n71 at 20 ㎒ Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

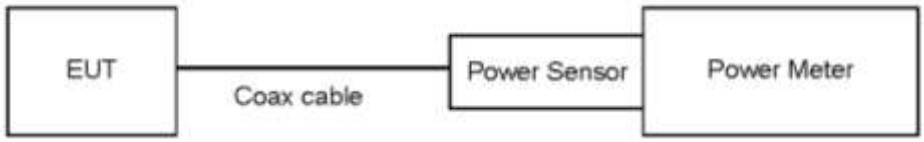
11.5 WIFI Conducted Power measurement method

Un-Licensed bands (DTS Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 558074 v05 - Section 8.3.2.3 - ANSI 63.10-2013 - Section 11.9.2.3

Test Procedure
1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup

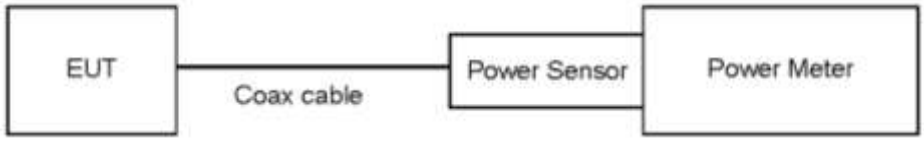


Un-Licensed bands (NII Band)

Test Description	Test Procedure Used
Conducted Output Power	- KDB 789033 D02 v02r01 - Section E.3.a

Test Procedure
1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



11.5.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power

Mode	Frequency [㎒]	Channel	IEEE 802.11 (2.4 ㎓) Average RF Conducted Power [dBm]		
			Ant.1	Ant.2	MIMO
802.11b	2 412	1	19.55	19.43	22.50
	2 437	6	19.65	19.66	22.67
	2 462	11	19.73	19.73	22.74
802.11g	2 412	1	17.64	17.54	20.60
	2 437	6	17.89	17.77	20.84
	2 462	11	16.60	16.77	19.69
802.11n (HT20)	2 412	1	16.38	15.97	19.19
	2 437	6	16.47	16.40	19.44
	2 462	11	14.99	15.47	18.25
802.11ac	2 412	1	16.26	15.92	19.10
	2 437	6	16.53	16.40	19.48
	2 462	11	14.99	15.49	18.26

11.5.2 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (Grip Active)

Mode	Frequency [㎒]	Channel	IEEE 802.11 (2.4 ㎓) Average RF Conducted Power [dBm]		
			Ant.1	Ant.2	MIMO
802.11b	2 412	1	10.26	10.00	13.14
	2 437	6	10.63	10.24	13.45
	2 462	11	10.22	10.16	13.20
802.11g	2 412	1	9.21	9.08	12.16
	2 437	6	9.64	9.31	12.49
	2 462	11	9.25	9.27	12.27
802.11n (HT20)	2 412	1	8.87	8.79	11.84
	2 437	6	9.33	9.03	12.19
	2 462	11	8.89	8.97	11.94
802.11ac	2 412	1	8.93	8.77	11.86
	2 437	6	9.23	8.99	12.12
	2 462	11	8.92	8.93	11.94
802.11ax(SU)	2 412	1	9.47	9.27	12.38
	2 437	6	9.86	9.49	12.69
	2 462	11	9.55	9.47	12.52

11.5.3 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (RSDB)

Mode	Frequency [㎒]	Channel	IEEE 802.11 (2.4 ㎓) Average RF Conducted Power [dBm]		
			Ant.1	Ant.2	MIMO
802.11b	2 412	1	16.43	15.72	19.10
	2 437	6	16.80	16.29	19.56
	2 462	11	16.27	16.17	19.23
802.11g	2 412	1	14.21	13.82	17.03
	2 437	6	14.62	14.19	17.42
	2 462	11	14.16	14.09	17.14
802.11n (HT20)	2 412	1	12.84	12.75	15.81
	2 437	6	13.26	12.95	16.12
	2 462	11	12.85	12.86	15.87
802.11ac	2 412	1	12.84	12.78	15.82
	2 437	6	13.28	12.98	16.14
	2 462	11	12.90	12.86	15.89
802.11ax(SU)	2 412	1	11.38	11.23	14.32
	2 437	6	11.74	11.53	14.65
	2 462	11	11.63	11.58	14.62

11.5.4 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (mmWave Grip with RSDB Grip)

Mode	Frequency [㎒]	Channel	IEEE 802.11 (2.4 ㎓) Average RF Conducted Power [dBm]		
			Ant.1	Ant.2	MIMO
802.11b	2 412	1	8.12	8.03	11.09
	2 437	6	8.47	8.33	11.41
	2 462	11	8.23	8.20	11.23
802.11g	2 412	1	7.16	7.08	10.13
	2 437	6	7.55	7.36	10.47
	2 462	11	7.24	7.28	10.27
802.11n (HT20)	2 412	1	6.80	6.76	9.79
	2 437	6	7.26	7.02	10.15
	2 462	11	6.88	6.97	9.94
802.11ac	2 412	1	6.77	6.75	9.77
	2 437	6	7.22	7.05	10.15
	2 462	11	6.94	6.93	9.95
802.11ax(SU)	2 412	1	7.37	7.26	10.33
	2 437	6	7.83	7.53	10.69
	2 462	11	7.47	7.49	10.49

11.5.5 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (mmWave Grip with RSDB)

Mode	Frequency [㎒]	Channel	IEEE 802.11 (2.4 ㎓) Average RF Conducted Power [dBm]		
			Ant.1	Ant.2	MIMO
802.11b	2 412	1	7.31	7.11	10.22
	2 437	6	7.63	7.55	10.60
	2 462	11	7.47	7.35	10.42
802.11g	2 412	1	6.57	6.48	9.54
	2 437	6	6.91	6.83	9.88
	2 462	11	6.68	6.76	9.73
802.11n (HT20)	2 412	1	6.14	6.10	9.13
	2 437	6	6.54	6.44	9.50
	2 462	11	6.27	6.48	9.39

11.5.4 IEEE 802.11 (5 GHz) Maximum Conducted Power

Frequency [㎒]	Channel	IEEE 802.11 a(20 ㎒ BW) Conducted Power [dBm]		
		Ant.1	Ant.2	MIMO
5 180	36	15.68	16.90	19.34
5 200	40	15.72	17.04	19.44
5 240	48	15.93	17.04	19.53
5 260	52	15.92	16.82	19.41
5 300	60	16.00	16.88	19.47
5 320	64	15.79	16.85	19.36
5 500	100	15.82	16.38	19.12
5 600	120	15.88	16.89	19.42
5 720	144	16.09	16.21	19.16
5 745	149	16.44	16.22	19.34
5 785	157	16.72	15.88	19.33
5 825	165	16.47	15.13	18.86

Frequency [㎒]	Channel	IEEE 802.11 ac(80 ㎒ BW) Conducted Power [dBm]		
		Ant.1	Ant.2	MIMO
5210	42	12.38	13.19	15.82
5290	58	12.43	13.18	15.84
5530	106	12.36	13.06	15.74
5610	122	11.92	12.98	15.50
5690	138	12.19	12.83	15.54
5775	155	12.77	12.27	15.54

11.5.5 IEEE 802.11 (5 GHz) Reduced Conducted Power (Grip Active)

Frequency [㎒]	Channel	IEEE 802.11 ac(80 ㎒ BW) Conducted Power [dBm]	
		Ant.1	Ant.2
5210	42	8.60	8.03
5290	58	8.55	8.36
5530	106	8.30	7.12
5610	122	8.49	7.05
5690	138	8.37	7.85
5775	155	8.62	7.68

11.5.6 IEEE 802.11 (5 GHz) Reduced Conducted Power (RSDB)

Frequency [㎒]	Channel	IEEE 802.11 a(20 ㎒ BW) Conducted Power [dBm]	
		Ant.1	Ant.2
5 180	36	14.53	14.33
5 200	40	14.85	14.37
5 220	44	14.72	14.43
5 240	48	14.62	14.09
5 260	52	14.70	13.99
5 280	56	14.42	13.88
5 300	60	14.65	14.26
5 320	64	14.51	13.86
5 500	100	14.51	13.39
5 580	116	14.74	13.37
5 600	120	14.81	13.41
5 620	124	14.67	13.31
5 720	144	15.01	13.55
5 745	149	14.85	13.72
5 785	157	14.88	13.68
5 825	165	14.56	13.17

11.5.7 IEEE 802.11 (5 GHz) Reduced Conducted Power (RSDB with Grip Active)

Frequency [㎒]	Channel	IEEE 802.11 ac(80 ㎒ BW) Conducted Power [dBm]	
		Ant.1	Ant.2
5210	42	6.67	6.13
5290	58	6.93	6.45
5530	106	6.59	5.21
5610	122	6.44	5.07
5690	138	6.45	5.74
5775	155	6.79	5.67

11.5.8 IEEE 802.11 (5 GHz) Reduced Conducted Power (mmWave with Grip Active)

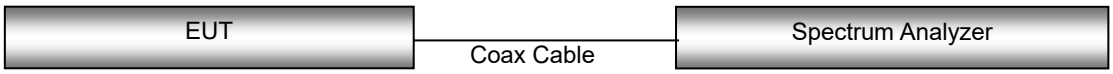
Frequency [㎒]	Channel	IEEE 802.11 ac(80 ㎒ BW) Conducted Power [dBm]	
		Ant.1	Ant.2
5210	42	7.47	6.96
5290	58	7.82	7.55
5530	106	7.31	6.16
5610	122	7.12	5.96
5690	138	7.12	6.86
5775	155	7.32	6.86

11.4.9 IEEE 802.11 (5 GHz) Reduced Conducted Power (mmWave + RSDB with Grip)

Frequency [㎒]	Channel	IEEE 802.11 ac(80 ㎒ BW) Conducted Power [dBm]	
		Ant.1	Ant.2
5210	42	5.55	5.01
5290	58	5.89	5.63
5530	106	5.27	4.22
5610	122	5.23	4.00
5690	138	5.33	5.07
5775	155	5.44	4.93

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:
▪ Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
▪ For transmission mode with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
▪ For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
▪ For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

Test Configuration



11.6 Bluetooth Conducted Power

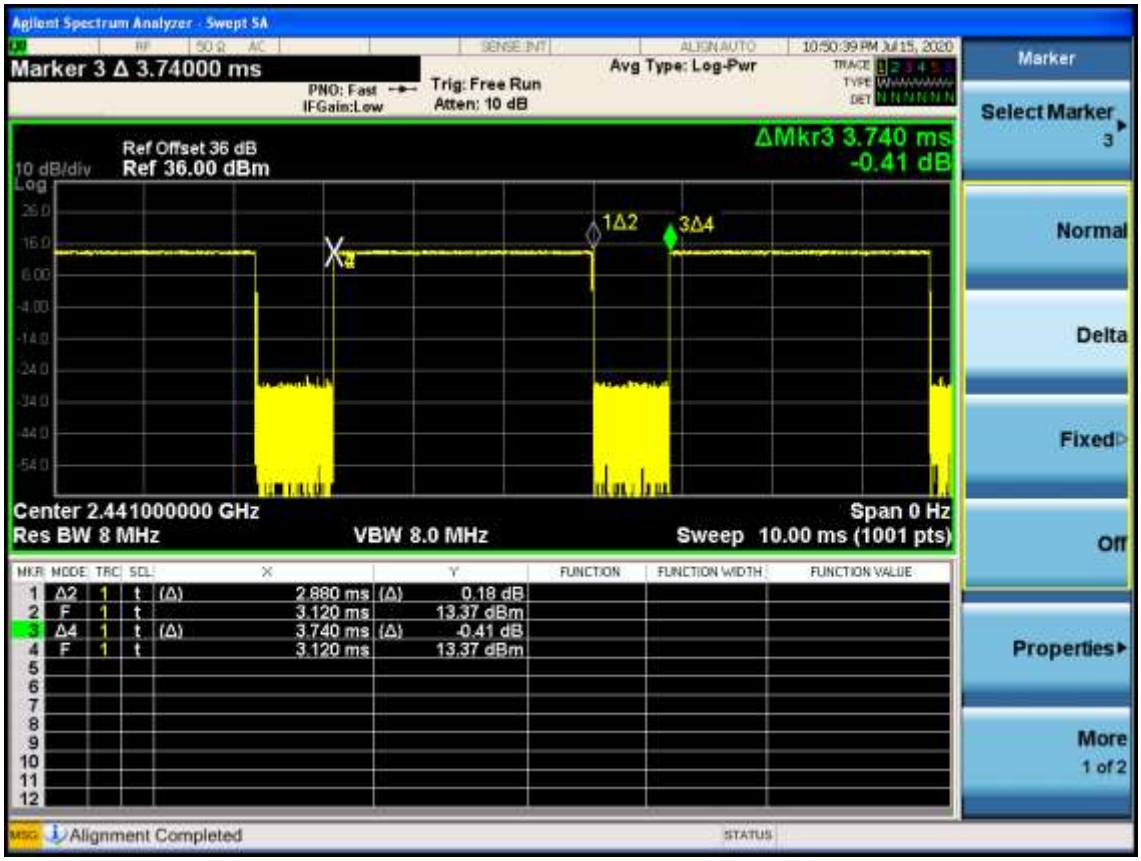
The Burst averaged-conducted power (Maximum)

Mode	Channel	Bluetooth Power [dBm]	
		Ant1	Ant2
DH5	0	13.82	13.05
	39	14.18	14.58
	78	13.71	14.37
2-DH5	0	12.85	12.08
	39	13.21	13.58
	78	12.79	13.44
3-DH5	0	12.87	12.08
	39	13.23	13.64
	78	12.84	13.44

The Burst averaged-conducted power Grip sensor active (Reduced)

Mode	Channel	Bluetooth Power [dBm]	
		Ant1	Ant2
DH5	0	5.006	3.726
	39	4.861	4.911
	78	5.156	4.896
2-DH5	0	4.141	3.271
	39	4.726	4.836
	78	5.016	5.026
3-DH5	0	4.151	3.291
	39	4.676	4.806
	78	4.991	4.951

Per October 2016 TCB Workshop Notes:
When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.
Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth protocol. DH5 mode is the highest duty cycle and conducted power. SAR test were performed at DH5 mode.



Duty Cycle

= (BT-On time /BT-Full time) =(2.880/3.740) = 0.770 (DH5)

Duty factor= 1/Duty cycle : 1.298

12. System Verification

12.1 Tissue Verification

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ε_r	Target Conductivity σ (S/m)	Target Dielectric Constant, ε_r	% dev σ	% dev ε
06/17/2020	20.8	750H	705	0.855	42.637	0.889	42.174	-3.82	1.10
			710	0.860	42.482	0.890	42.148	-3.37	0.79
			750	0.900	42.052	0.893	41.940	0.78	0.27
06/18/2020	21.3	750H	705	0.869	42.575	0.889	42.174	-2.25	0.95
			710	0.873	42.468	0.890	42.148	-1.91	0.76
			750	0.913	41.930	0.893	41.940	2.24	-0.02
06/19/2020	20.0	750H	705	0.871	42.720	0.889	42.174	-2.02	1.29
			710	0.877	42.641	0.890	42.148	-1.46	1.17
			750	0.918	42.154	0.893	41.940	2.80	0.51
06/03/2020	21.6	750H	750	0.892	42.031	0.893	41.940	-0.11	0.22
			785	0.928	41.539	0.896	41.758	3.57	-0.52
06/04/2020	21.8	835H	820	0.926	42.970	0.899	41.577	3.00	3.35
			835	0.941	42.782	0.900	41.500	4.56	3.09
			850	0.954	42.603	0.916	41.500	4.15	2.66
06/19/2020	20.4	835H	785	0.898	42.555	0.896	41.758	0.22	1.91
			800	0.913	42.378	0.897	41.680	1.78	1.67
			835	0.939	41.952	0.900	41.500	4.33	1.09
06/03/2020	21.6	835H	820	0.925	42.931	0.899	41.577	2.89	3.26
			835	0.941	42.739	0.900	41.500	4.56	2.99
			850	0.953	42.552	0.916	41.500	4.04	2.53
06/15/2020	19.8	835H	820	0.902	42.654	0.899	41.577	0.33	2.59
			835	0.916	42.397	0.900	41.500	1.78	2.16
			850	0.926	42.249	0.916	41.500	1.09	1.80
06/05/2020	21.5	1800H	1710	1.294	40.202	1.348	40.144	-4.01	0.14
			1750	1.332	40.117	1.371	40.080	-2.84	0.09
			1800	1.379	39.988	1.400	40.000	-1.50	-0.03
06/11/2020	21.0	1800H	1710	1.291	40.181	1.348	40.144	-4.23	0.09
			1750	1.329	40.118	1.371	40.080	-3.06	0.09
			1800	1.374	39.956	1.400	40.000	-1.86	-0.11
06/16/2020	21.3	1800H	1710	1.294	40.257	1.348	40.144	-4.01	0.28
			1750	1.331	40.150	1.371	40.080	-2.92	0.17
			1800	1.378	40.008	1.400	40.000	-1.57	0.02
07/10/2020	20.5	1800H	1710	1.295	40.294	1.348	40.144	-3.93	0.37
			1750	1.332	40.183	1.371	40.080	-2.84	0.26
			1800	1.379	40.040	1.400	40.000	-1.50	0.10
07/10/2020	19.9	1800H	1710	1.290	40.221	1.348	40.144	-4.30	0.19
			1750	1.325	40.141	1.371	40.080	-3.36	0.15
			1800	1.373	39.984	1.400	40.000	-1.93	-0.04
06/05/2020	21.5	1900H	1850	1.343	39.397	1.400	40.000	-4.07	-1.51
			1900	1.395	39.144	1.400	40.000	-0.36	-2.14
			1910	1.403	39.070	1.400	40.000	0.21	-2.33

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ε_r	Target Conductivity σ (S/m)	Target Dielectric Constant, ε_r	% dev σ	% dev ε
06/12/2020	20.3	1900H	1850	1.415	39.529	1.400	40.000	1.07	-1.18
			1900	1.465	39.351	1.400	40.000	4.64	-1.62
			1910	1.469	39.302	1.400	40.000	4.93	-1.74
06/24/2020	21.2	1900H	1850	1.348	40.446	1.400	40.000	-3.71	1.11
			1900	1.404	40.300	1.400	40.000	0.29	0.75
			1910	1.410	40.276	1.400	40.000	0.71	0.69
07/09/2020	20.6	1900H	1850	1.389	39.199	1.400	40.000	-0.79	-2.00
			1900	1.439	38.998	1.400	40.000	2.79	-2.51
			1910	1.451	38.913	1.400	40.000	3.64	-2.72
06/18/2020	20.9	2300H	2300	1.642	39.959	1.667	39.470	-1.50	1.24
			2310	1.648	39.952	1.676	39.452	-1.67	1.27
			2350	1.691	39.875	1.711	39.380	-1.17	1.26
			2360	1.706	39.804	1.720	39.362	-0.81	1.12
06/18/2020	21.0	2450H	2400	1.754	39.581	1.756	39.290	-0.11	0.74
			2450	1.818	39.412	1.800	39.200	1.00	0.54
			2500	1.872	39.215	1.855	39.140	0.92	0.19
06/19/2020	21.0	2450H	2400	1.744	40.066	1.756	39.290	-0.68	1.98
			2450	1.81	39.906	1.800	39.200	0.56	1.80
			2500	1.863	39.750	1.855	39.140	0.43	1.56
06/29/2020	21.2	2450H	2400	1.744	40.096	1.756	39.290	-0.68	2.05
			2450	1.807	39.940	1.800	39.200	0.39	1.89
			2500	1.862	39.768	1.855	39.140	0.38	1.60
06/29/2020	21.2	2450H	2400	1.751	40.089	1.756	39.290	-0.28	2.03
			2450	1.816	39.906	1.800	39.200	0.89	1.80
			2500	1.867	39.711	1.855	39.140	0.65	1.46
06/30/2020	21.2	2450H	2400	1.731	38.673	1.756	39.290	-1.42	-1.57
			2450	1.795	38.448	1.800	39.200	-0.44	-1.92
			2500	1.848	38.252	1.855	39.140	-0.38	-2.27
06/22/2020	20.9	2450H	2400	1.747	39.637	1.756	39.290	-0.51	0.88
			2450	1.811	39.443	1.800	39.200	0.61	0.62
			2500	1.861	39.266	1.855	39.140	0.32	0.32
07/10/2020	19.4	2450H	2400	1.756	40.110	1.756	39.290	0.00	2.09
			2450	1.815	39.916	1.800	39.200	0.83	1.83
			2500	1.865	39.740	1.855	39.140	0.54	1.53
07/10/2020	19.4	2450H	2400	1.746	40.081	1.756	39.290	-0.57	2.01
			2450	1.808	39.915	1.800	39.200	0.44	1.82
			2500	1.860	39.735	1.855	39.140	0.27	1.52
07/08/2020	19.8	2600H	2500	1.852	38.270	1.855	39.140	-0.16	-2.22
			2600	1.947	37.856	1.964	39.010	-0.87	-2.96
			2690	2.049	37.542	2.062	38.894	-0.63	-3.48
06/10/2020	21.4	2600H	2500	1.847	38.192	1.855	39.140	-0.43	-2.42
			2600	1.943	37.732	1.964	39.010	-1.07	-3.28
			2690	2.032	37.505	2.062	38.894	-1.45	-3.57

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ε_r	Target Conductivity σ (S/m)	Target Dielectric Constant, ε_r	% dev σ	% dev ε
07/07/2020	21.0	2600H	2500	1.849	38.298	1.855	39.140	-0.32	-2.15
			2600	1.941	37.805	1.964	39.010	-1.17	-3.09
			2690	2.052	37.512	2.062	38.894	-0.48	-3.55
07/08/2020	21.5	2600H	2500	1.850	38.319	1.855	39.140	-0.27	-2.10
			2600	1.941	37.842	1.964	39.010	-1.17	-2.99
			2690	2.047	37.576	2.062	38.894	-0.73	-3.39
07/31/2020	21.6	2600H	2500	1.867	39.257	1.855	39.140	+ 0.65	+ 0.30
			2600	1.958	38.874	1.964	39.010	- 0.31	- 0.35
			2690	2.065	38.534	2.062	38.894	+ 0.15	- 0.93
06/29/2020	21.2	5180H-5825H	5180	4.526	36.941	4.635	36.010	-2.35	2.59
			5250	4.642	36.673	4.706	35.930	-1.36	2.07
			5280	4.712	36.951	4.737	35.894	-0.53	2.94
			5320	4.686	36.119	4.778	35.846	-1.93	0.76
			5500	4.880	36.608	4.963	35.640	-1.67	2.72
			5600	4.927	36.013	5.065	35.530	-2.72	1.36
			5750	5.195	36.079	5.219	35.360	-0.46	2.03
			5800	5.096	35.686	5.270	35.300	-3.30	1.09
			5825	5.138	36.332	5.296	35.270	-2.98	3.01
06/30/2020	20.8	5180H-5825H	5180	4.646	37.107	4.635	36.010	0.24	3.05
			5250	4.767	37.047	4.706	35.930	1.30	3.11
			5280	4.871	36.699	4.737	35.894	2.83	2.24
			5320	4.942	36.605	4.778	35.846	3.43	2.12
			5500	4.930	36.654	4.963	35.640	-0.66	2.85
			5600	5.053	36.492	5.065	35.530	-0.24	2.71
			5750	5.224	36.600	5.219	35.360	0.10	3.51
			5800	5.283	36.380	5.270	35.300	0.25	3.06
			5825	5.243	35.996	5.296	35.270	-1.00	2.06
06/30/2020	20.3	5180H-5825H	5180	4.479	36.987	4.635	36.010	-3.37	2.71
			5250	4.617	36.702	4.706	35.930	-1.89	2.15
			5280	4.593	36.720	4.737	35.894	-3.04	2.30
			5320	4.612	37.150	4.778	35.846	-3.47	3.64
			5500	4.848	36.952	4.963	35.640	-2.32	3.68
			5600	4.919	36.676	5.065	35.530	-2.88	3.23
			5750	5.105	36.442	5.219	35.360	-2.18	3.06
			5800	5.059	37.034	5.270	35.300	-4.00	4.91
			5825	5.123	36.497	5.296	35.270	-3.27	3.48
06/29/2020	20.5	5180H-5825H	5180	4.468	37.245	4.635	36.010	-3.60	3.43
			5250	4.610	37.487	4.706	35.930	-2.04	4.33
			5280	4.742	36.835	4.737	35.894	0.11	2.62
			5320	4.817	36.524	4.778	35.846	0.82	1.89
			5500	4.792	36.679	4.963	35.640	-3.45	2.92
			5600	4.863	36.516	5.065	35.530	-3.99	2.78
			5750	5.004	36.696	5.219	35.360	-4.12	3.78
			5800	5.133	36.499	5.270	35.300	-2.60	3.40

			5825	5.104	36.212	5.296	35.270	-3.63	2.67

Table for Head Tissue Verification									
Date of Tests	Tissue Temp. (°C)	Tissue Type	Freq. (MHz)	Measured Conductivity σ (S/m)	Measured Dielectric Constant, ε_r	Target Conductivity σ (S/m)	Target Dielectric Constant, ε_r	% dev σ	% dev ε
07/02/2020	20.9	5180H-5825H	5180	4.619	36.412	4.635	36.010	-0.35	1.12
			5250	4.785	36.424	4.706	35.930	1.53	1.37
			5280	4.744	36.518	4.737	35.894	0.15	1.74
			5320	4.817	36.732	4.778	35.846	0.82	2.47
			5500	4.976	36.448	4.963	35.640	0.26	2.27
			5600	5.030	36.078	5.065	35.530	-0.83	1.54
			5750	5.277	36.002	5.219	35.360	0.98	1.82
			5800	5.226	36.374	5.270	35.300	-0.83	3.04
			5825	5.306	35.816	5.296	35.270	0.19	1.55
07/01/2020	19.6	5180H-5825H	5180	4.589	36.376	4.635	36.010	-0.99	1.02
			5250	4.856	36.584	4.706	35.930	3.19	1.82
			5280	4.661	36.548	4.737	35.894	-1.60	1.82
			5320	4.857	36.868	4.778	35.846	1.65	2.85
			5500	5.012	36.633	4.963	35.640	0.99	2.79
			5600	5.050	36.038	5.065	35.530	-0.30	1.43
			5750	5.351	36.046	5.219	35.360	2.53	1.94
			5800	5.189	36.480	5.270	35.300	-1.54	3.34
			5825	5.237	35.918	5.296	35.270	-1.11	1.84
07/09/2020	20.0	5180H-5600H	5180	4.539	36.137	4.635	36.010	-2.07	0.35
			5250	4.619	36.006	4.706	35.930	-1.85	0.21
			5280	4.643	35.983	4.737	35.894	-1.98	0.25
			5320	4.689	35.935	4.778	35.846	-1.86	0.25
			5500	4.881	35.678	4.963	35.640	-1.65	0.11
			5600	5.00	35.538	5.065	35.530	-1.28	0.02

12.2 System Verification

SAR measurement was prior to assessment, the system is verified to the ± 10 % of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;
SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

* Input Power: 50 mW

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR_{1g} (SPEAG)	50 mW Measured SAR_{1g}	1 W Normalized SAR_{1g}	Deviation	Limit	Plot No
[㎒]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]	
750	06/17/2020	3076	1014	Head	21.0	20.8	8.25	0.423	8.46	+ 2.55	± 10	V1
750	06/18/2020	3076		Head	21.6	21.3	8.25	0.427	8.54	+ 3.52	± 10	V2
750	06/19/2020	1630		Head	20.2	20.0	8.25	0.402	8.04	- 2.55	± 10	V3
750	06/03/2020	3076		Head	21.8	21.6	8.25	0.418	8.36	+ 1.33	± 10	V4
835	06/04/2020	3076	441	Head	22.0	21.8	9.69	0.502	10.04	+ 3.61	± 10	V5
835	06/19/2020	3076		Head	20.8	20.4	9.69	0.468	9.36	- 3.41	± 10	V6
835	06/03/2020	3076		Head	21.8	21.6	9.69	0.506	10.12	+ 4.44	± 10	V7
835	06/15/2020	1630		Head	20.0	19.8	9.69	0.502	10.04	+ 3.61	± 10	V8
1 800	06/05/2020	3076	2d015	Head	21.7	21.5	38.5	1.88	37.6	- 2.34	± 10	V9
1 800	06/11/2020	3076		Head	21.2	21.0	38.5	1.85	37	- 3.90	± 10	V10
1 800	06/16/2020	3076		Head	21.5	21.3	38.5	1.91	38.2	- 0.78	± 10	V11
1 800	07/10/2020	7370		Head	20.8	20.5	38.5	1.97	39.4	+ 2.34	± 10	V12
1 800	07/10/2020	3903		Head	20.1	19.9	38.5	1.89	37.8	- 1.82	± 10	V13
1 900	06/05/2020	3076	5d061	Head	21.7	21.5	40.0	1.92	38.4	- 4.00	± 10	V14
1 900	06/12/2020	3076		Head	20.5	20.3	40.0	2.15	43	+ 7.50	± 10	V15
1 900	06/24/2020	3076		Head	21.4	21.2	40.0	1.9	38	- 5.00	± 10	V16
1 900	07/09/2020	3903		Head	20.7	20.6	40.0	1.92	38	- 5.00	± 10	V17
2 300	06/18/2020	3903	1010	Head	21.2	21.0	48.5	2.42	48.4	- 0.21	± 10	V18
2 450	06/18/2020	3968	743	Head	21.2	21.0	52.3	2.53	50.6	- 3.25	± 10	V19
2 450	06/19/2020	3968		Head	21.2	21.0	52.3	2.52	50.4	- 3.63	± 10	V20
2 450	06/29/2020	3903		Head	21.4	21.2	52.3	2.49	49.8	- 4.78	± 10	V21
2 450	06/29/2020	3903		Head	21.4	21.2	52.3	2.5	50	- 4.40	± 10	V22
2 450	06/30/2020	3903		Head	21.4	21.2	52.3	2.59	51.8	- 0.96	± 10	V23
2 450	06/22/2020	3968	743	Head	21.1	20.9	52.3	2.53	50.6	- 3.25	± 10	V24
2 450	07/10/2020	3968		Head	19.8	19.4	52.3	2.65	53	+ 1.34	± 10	V25
2 450	07/10/2020	3968		Head	19.8	19.4	52.3	2.66	53.2	1.72	± 10	V26
2 600	07/08/2020	3903	1106	Head	20.1	19.8	56.5	2.73	54.6	- 3.36	± 10	V27
2 600	06/10/2020	3903		Head	21.6	21.4	56.5	2.74	54.8	- 3.01	± 10	V28
2 600	07/07/2020	3968		Head	21.4	21.0	56.5	2.88	57.6	+ 1.95	± 10	V29
2 600	07/08/2020	3968		Head	21.8	21.5	56.5	2.88	57.6	+ 1.95	± 10	V30
2 600	07/31/2020	3797		Head	21.6	21.4	56.5	2.97	59.4	+ 5.13	± 10	V51

Freq.	Date	Probe (S/N)	Dipole (S/N)	Liquid	Amb. Temp.	Liquid Temp.	1 W Target SAR_{1g} (SPEAG)	50 mW Measured SAR_{1g}	1 W Normalized SAR_{1g}	Deviation	Limit	Plot No
[㎒]					[°C]	[°C]	[W/kg]	[W/kg]	[W/kg]	[%]	[%]	
5 250	06/29/2020	3968	1107	Head	21.4	21.2	81.6	4.07	81.4	- 0.25	± 10	V31
5 250	06/30/2020	3968		Head	21.1	20.8	81.6	3.88	77.6	- 4.90	± 10	V32
5 250	06/30/2020	7370		Head	20.5	20.3	81.6	3.98	79.6	- 2.45	± 10	V33
5 250	06/29/2020	7370		Head	20.7	20.5	81.6	4.15	83	1.72	± 10	V34
5 250	07/02/2020	7370		Head	21.1	20.9	81.6	4.18	83.6	+ 2.45	± 10	V35
5 250	07/01/2020	3968		Head	19.7	19.6	81.6	3.99	79.8	- 2.21	± 10	V36
5 250	07/09/2020	3968		Head	20.2	20.0	81.6	4.11	82.2	+ 0.74	± 10	V37
5 600	06/29/2020	3968		Head	21.4	21.2	84.0	4.09	81.8	- 2.62	± 10	V38
5 600	06/30/2020	3968		Head	21.1	20.8	84.0	4.2	84	+ 0.00	± 10	V39
5 600	06/30/2020	7370		Head	20.5	20.3	84.0	4.07	81.4	- 3.10	± 10	V40
5 600	06/29/2020	7370		Head	20.7	20.5	84.0	4.32	86.4	2.86	± 10	V41
5 600	07/02/2020	7370		Head	21.1	20.9	84.0	3.91	78.2	- 6.90	± 10	V42
5 600	07/01/2020	3968	1107	Head	19.7	19.6	84.0	4.39	87.8	+ 4.52	± 10	V43
5 600	07/09/2020	3968		Head	20.2	20.0	84.0	4.32	86.4	+ 2.86	± 10	V44
5 750	06/29/2020	3968		Head	21.4	21.2	80.9	4.06	81.2	+ 0.37	± 10	V45
5 750	06/30/2020	3968		Head	21.1	20.8	80.9	4.06	81.2	+ 0.37	± 10	V46
5 750	06/30/2020	7370		Head	20.5	20.3	80.9	3.85	77	- 4.82	± 10	V47
5 750	06/29/2020	7370		Head	20.7	20.5	80.9	4.09	81.8	1.11	± 10	V48
5 750	07/02/2020	7370		Head	21.1	20.9	80.9	4.07	81.4	+ 0.62	± 10	V49
5 750	07/01/2020	3968		Head	19.7	19.6	80.9	3.87	77.4	- 4.33	± 10	V50

13. SAR Test Data Summary

WCDMA Band5 Body SAR 1g														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.													
836.6	4183	RMC	24.50	23.71	-0.19	Rear	Inactive	1:1	17	32	0.594	1.199	0.713	-
836.6	4183	RMC	24.50	23.71	-0.12	Right	Inactive	1:1	8	32	0.141	1.199	0.169	-
836.6	4183	RMC	24.50	23.71	0.02	Top	Inactive	1:1	23	32	0.357	1.199	0.428	-
836.6	4183	RMC	24.50	23.71	0.04	Left	N/A	1:1	0	32	0.121	1.199	0.145	-
826.4	4132	RMC	18.50	17.67	-0.16	Rear	Active	1:1	0	32	0.718	1.211	0.869	-
836.6	4183	RMC	18.50	17.70	-0.12	Rear	Active	1:1	0	32	0.702	1.202	0.844	
846.6	4233	RMC	18.50	17.56	-0.12	Rear	Active	1:1	0	32	0.600	1.242	0.745	
836.6	4183	RMC	18.50	17.70	-0.08	Right	Active	1:1	0	32	0.132	1.202	0.159	-
826.4	4132	RMC	18.50	17.67	-0.15	Top	Active	1:1	0	32	0.781	1.211	**0.945**	1
836.6	4183	RMC	18.50	17.70	-0.14	Top	Active	1:1	0	32	0.745	1.202	0.896	-
846.6	4233	RMC	18.50	17.56	-0.14	Top	Active	1:1	0	32	0.717	1.242	0.890	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

WCDMA Band4 Body SAR 1g														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.													
1 732.4	1412	RMC	24.50	23.80	-0.17	Rear	Inactive	1:1	17	0	0.642	1.175	0.754	-
1 732.4	1412	RMC	24.50	23.80	-0.01	Right	Inactive	1:1	8	0	0.160	1.175	0.188	-
1 712.4	1312	RMC	24.50	23.99	0.02	Top	Inactive	1:1	23	0	0.665	1.125	0.748	-
1 732.4	1412	RMC	24.50	23.80	0.06	Top	Inactive	1:1	23	0	0.681	1.175	0.800	-
1 752.6	1513	RMC	24.50	23.87	0.01	Top	Inactive	1:1	23	0	0.703	1.156	0.813	-
1 732.4	1412	RMC	24.50	23.80	0.17	Left	N/A	1:1	0	0	0.113	1.175	0.133	-
1 712.4	1312	RMC	14.50	13.95	0.16	Rear	Active	1:1	0	0	0.775	1.135	0.880	-
1 732.4	1412	RMC	14.50	13.73	0.15	Rear	Active	1:1	0	0	0.812	1.194	0.970	-
1 752.6	1513	RMC	14.50	13.82	0.14	Rear	Active	1:1	0	0	0.814	1.169	0.952	-
1 732.4	1412	RMC	14.50	13.73	-0.17	Right	Active	1:1	0	0	0.096	1.194	0.115	-
1 712.4	1312	RMC	14.50	13.95	0.12	Top	Active	1:1	0	0	0.788	1.135	0.894	-
1 732.4	1412	RMC	14.50	13.73	0.16	Top	Active	1:1	0	0	0.788	1.194	0.941	-
1 752.6	1513	RMC	14.50	13.82	0.18	Top	Active	1:1	0	0	0.759	1.169	0.888	-
1 752.6	1513	RMC	14.50	13.82	0.12	Rear	Active	1:1	0	0	0.834	1.169	**0.975**	2 *
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram						

Note: * Data entry indicate Variability measurement.

WCDMA Band2 Body SAR 1g														
Frequency		Mode	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.													
1 852.4	9262	RMC	24.50	23.31	-0.12	Rear	Inactive	1:1	17	48	0.743	1.315	0.977	-
1 880.0	9400	RMC	24.50	23.59	-0.13	Rear	Inactive	1:1	17	48	0.787	1.233	0.970	-
1 907.6	9538	RMC	24.50	23.75	-0.11	Rear	Inactive	1:1	17	48	0.675	1.189	0.802	-
1 880.0	9400	RMC	24.50	23.59	0.02	Right	Inactive	1:1	8	48	0.238	1.233	0.293	-
1 852.4	9262	RMC	24.50	23.31	0.06	Top	Inactive	1:1	23	48	0.721	1.315	0.948	-
1 880.0	9400	RMC	24.50	23.59	0.01	Top	Inactive	1:1	23	48	0.829	1.233	**1.022**	3
1 907.6	9538	RMC	24.50	23.75	0.06	Top	Inactive	1:1	23	48	0.774	1.189	0.920	
1 880.0	9400	RMC	24.50	23.59	0.12	Left	N/A	1:1	0	48	0.197	1.233	0.243	-
1 852.4	9262	RMC	14.50	13.69	0.15	Rear	Active	1:1	0	48	0.696	1.205	0.839	-
1 880.0	9400	RMC	14.50	13.56	0.17	Rear	Active	1:1	0	48	0.669	1.242	0.831	-
1 907.6	9538	RMC	14.50	13.72	0.16	Rear	Active	1:1	0	48	0.570	1.197	0.682	-
1 880.0	9400	RMC	14.50	13.56	-0.10	Right	Active	1:1	0	48	0.159	1.242	0.197	-
1 880.0	9400	RMC	14.50	13.56	0.15	Top	Active	1:1	0	48	0.498	1.242	0.618	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram					

LTE Band 7 Body SAR 1g																	
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2510	20850	QPSK	20	23.00	21.95	0.19	Rear	Inactive	0	1	49	1:1	17	28	0.225	1.274	0.287	-
2510	20850	QPSK	20	22.00	21.09	-0.14	Rear	Inactive	1	50	25	1:1	17	28	0.185	1.233	0.228	-
2510	20850	QPSK	20	23.00	21.95	0.05	Right	Inactive	0	1	49	1:1	8	28	0.135	1.274	0.172	-
2510	20850	QPSK	20	22.00	21.09	0.05	Right	Inactive	1	50	25	1:1	8	28	0.110	1.233	0.136	-
2510	20850	QPSK	20	23.00	21.95	-0.12	Top	Inactive	0	1	49	1:1	23	28	0.370	1.274	0.471	-
2510	20850	QPSK	20	22.00	21.09	-0.15	Top	Inactive	1	50	25	1:1	23	28	0.305	1.233	0.376	-
2510	20850	QPSK	20	23.00	21.95	-0.05	Left	N/A	0	1	49	1:1	0	28	0.200	1.274	0.255	-
2510	20850	QPSK	20	22.00	21.09	0.12	Left	N/A	1	50	25	1:1	0	28	0.165	1.233	0.203	-
2 535	21100	QPSK	20	13.00	11.98	0.19	Rear	Active	0	1	49	1:1	0	28	0.471	1.265	0.596	-
2 535	21100	QPSK	20	13.00	12.05	-0.13	Rear	Active	0	50	25	1:1	0	28	0.493	1.245	0.614	-
2 535	21100	QPSK	20	13.00	11.98	0.08	Right	Active	0	1	49	1:1	0	28	0.078	1.265	0.099	-
2 535	21100	QPSK	20	13.00	12.05	0.10	Right	Active	0	50	25	1:1	0	28	0.085	1.245	0.106	-
2 535	21100	QPSK	20	13.00	11.98	-0.19	Top	Active	0	1	49	1:1	0	28	0.613	1.265	0.775	-
2 535	21100	QPSK	20	13.00	12.05	-0.11	Top	Active	0	50	25	1:1	0	28	0.647	1.245	**0.805**	4

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LTE Band 12 Body SAR 1g																		
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
707.5	23095	QPSK	10	25.80	24.87	-0.14	Rear	Inactive	0	1	0	1:1	17	28	0.409	1.239	0.507	-
707.5	23095	QPSK	10	24.80	23.98	-0.19	Rear	Inactive	1	25	0	1:1	17	28	0.322	1.208	0.389	-
707.5	23095	QPSK	10	25.80	24.87	-0.16	Right	Inactive	0	1	0	1:1	8	28	0.100	1.239	0.124	-
707.5	23095	QPSK	10	24.80	23.98	-0.07	Right	Inactive	1	25	0	1:1	8	28	0.079	1.208	0.095	-
707.5	23095	QPSK	10	25.80	24.87	-0.12	Top	Inactive	0	1	0	1:1	23	28	0.224	1.239	0.277	-
707.5	23095	QPSK	10	24.80	23.98	-0.15	Top	Inactive	1	25	0	1:1	23	28	0.177	1.208	0.214	-
707.5	23095	QPSK	10	25.80	24.87	-0.16	Left	N/A	0	1	0	1:1	0	28	0.144	1.239	0.178	-
707.5	23095	QPSK	10	24.80	23.98	0.04	Left	N/A	1	25	0	1:1	0	28	0.111	1.208	0.134	-
707.5	23095	QPSK	10	17.00	15.85	-0.07	Rear	Active	0	1	0	1:1	0	28	0.569	1.303	**0.742**	-
707.5	23095	QPSK	10	17.00	15.87	-0.16	Rear	Active	0	25	0	1:1	0	28	0.569	1.297	0.738	5
707.5	23095	QPSK	10	17.00	15.85	0.01	Right	Active	0	1	0	1:1	0	28	0.038	1.303	0.050	-
707.5	23095	QPSK	10	17.00	15.87	-0.04	Right	Active	0	25	0	1:1	0	28	0.039	1.297	0.051	-
707.5	23095	QPSK	10	17.00	15.85	-0.15	Top	Active	0	1	0	1:1	0	28	0.543	1.303	0.708	-
707.5	23095	QPSK	10	17.00	15.87	-0.11	Top	Active	0	25	0	1:1	0	28	0.552	1.297	0.716	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE Band 13 Body SAR 1g																	
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
782	23230	QPSK	10	25.00	24.17	-0.18	Rear	Inactive	0	1	49	1:1	17	4	0.462	1.211	0.559	-
782	23230	QPSK	10	24.00	23.30	-0.18	Rear	Inactive	1	25	24	1:1	17	4	0.380	1.175	0.446	-
782	23230	QPSK	10	25.00	24.17	-0.06	Right	Inactive	0	1	49	1:1	8	4	0.092	1.211	0.111	-
782	23230	QPSK	10	24.00	23.30	-0.03	Right	Inactive	1	25	24	1:1	8	4	0.076	1.175	0.089	-
782	23230	QPSK	10	25.00	24.17	-0.12	Top	Inactive	0	1	49	1:1	23	4	0.350	1.211	0.424	-
782	23230	QPSK	10	24.00	23.30	-0.06	Top	Inactive	1	25	24	1:1	23	4	0.283	1.175	0.332	-
782	23230	QPSK	10	25.00	24.17	0.08	Left	N/A	0	1	49	1:1	0	4	0.116	1.211	0.140	-
782	23230	QPSK	10	24.00	23.30	0.04	Left	N/A	1	25	24	1:1	0	4	0.097	1.175	0.114	-
782	23230	QPSK	10	17.00	16.09	-0.13	Rear	Active	0	1	49	1:1	0	4	0.534	1.233	0.658	-
782	23230	QPSK	10	17.00	16.25	-0.19	Rear	Active	0	25	24	1:1	0	4	0.572	1.189	0.680	-
782	23230	QPSK	10	17.00	16.09	-0.15	Right	Active	0	1	49	1:1	0	4	0.042	1.233	0.052	-
782	23230	QPSK	10	17.00	16.25	-0.19	Right	Active	0	25	24	1:1	0	4	0.044	1.189	0.052	-
782	23230	QPSK	10	17.00	16.09	-0.12	Top	Active	0	1	49	1:1	0	4	0.612	1.233	0.755	-
782	23230	QPSK	10	17.00	16.25	-0.16	Top	Active	0	25	24	1:1	0	4	0.658	1.189	**0.782**	6
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE Band 14 Body SAR 1g																	
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
793	23330	QPSK	10	25.50	24.20	-0.11	Rear	Inactive	0	1	0	1:1	17	68	0.580	1.349	0.782	-
793	23330	QPSK	10	24.50	23.28	-0.10	Rear	Inactive	1	25	12	1:1	17	68	0.457	1.324	0.605	-
793	23330	QPSK	10	25.50	24.20	-0.13	Right	Inactive	0	1	0	1:1	8	68	0.124	1.349	0.167	-
793	23330	QPSK	10	24.50	23.28	-0.08	Right	Inactive	1	25	12	1:1	8	68	0.107	1.324	0.142	-
793	23330	QPSK	10	25.50	24.20	-0.08	Top	Inactive	0	1	0	1:1	23	68	0.378	1.349	0.510	-
793	23330	QPSK	10	24.50	23.28	-0.05	Top	Inactive	1	25	12	1:1	23	68	0.379	1.324	0.502	-
793	23330	QPSK	10	25.50	24.20	-0.10	Left	N/A	0	1	0	1:1	0	68	0.135	1.349	0.182	-
793	23330	QPSK	10	24.50	23.28	0.01	Left	N/A	1	25	12	1:1	0	68	0.111	1.324	0.147	-
793	23330	QPSK	10	17.00	16.03	-0.14	Rear	Active	0	1	0	1:1	0	68	0.556	1.250	0.695	-
793	23330	QPSK	10	17.00	16.08	-0.14	Rear	Active	0	25	12	1:1	0	68	0.636	1.236	**0.786**	7
793	23330	QPSK	10	17.00	16.03	0.11	Right	Active	0	1	0	1:1	0	68	0.057	1.250	0.071	-
793	23330	QPSK	10	17.00	16.08	0.16	Right	Active	0	25	12	1:1	0	68	0.061	1.236	0.075	-
793	23330	QPSK	10	17.00	16.03	0.13	Top	Active	0	1	0	1:1	0	68	0.498	1.250	0.623	-
793	23330	QPSK	10	17.00	16.08	-0.06	Top	Active	0	25	12	1:1	0	68	0.556	1.236	0.687	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE Band 25 Body SAR 1g																		
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
1860	26140	QPSK	20	25.00	24.10	-0.13	Rear	Inactive	0	1	0	1:1	17	88	0.856	1.230	1.053	-
1882.5	26365	QPSK	20	25.00	24.11	-0.12	Rear	Inactive	0	1	0	1:1	17	88	0.897	1.227	**1.101**	8
1905	26590	QPSK	20	25.00	24.18	-0.10	Rear	Inactive	0	1	49	1:1	17	88	0.789	1.208	0.953	-
1860	26140	QPSK	20	24.00	23.18	-0.11	Rear	Inactive	1	50	25	1:1	17	88	0.707	1.208	0.854	-
1882.5	26365	QPSK	20	24.00	23.17	-0.17	Rear	Inactive	1	50	25	1:1	17	88	0.724	1.211	0.876	-
1905	26590	QPSK	20	24.00	23.19	-0.13	Rear	Inactive	1	50	49	1:1	17	88	0.712	1.205	0.858	-
1905	26590	QPSK	20	24.00	23.10	-0.16	Rear	Inactive	1	100	0	1:1	17	88	0.643	1.230	0.791	-
1905	26590	QPSK	20	25.00	24.18	-0.02	Right	Inactive	0	1	49	1:1	8	88	0.240	1.208	0.290	-
1905	26590	QPSK	20	24.00	23.19	-0.04	Right	Inactive	1	50	49	1:1	8	88	0.179	1.205	0.216	-
1860	26140	QPSK	20	25.00	24.10	0.03	Top	Inactive	0	1	0	1:1	23	88	0.823	1.230	1.013	-
1882.5	26365	QPSK	20	25.00	24.11	-0.03	Top	Inactive	0	1	0	1:1	23	88	0.879	1.227	1.079	-
1905	26590	QPSK	20	25.00	24.18	0.02	Top	Inactive	0	1	49	1:1	23	88	0.835	1.208	1.009	-
1860	26140	QPSK	20	24.00	23.18	-0.04	Top	Inactive	1	50	25	1:1	23	88	0.724	1.208	0.874	-
1882.5	26365	QPSK	20	24.00	23.17	0.01	Top	Inactive	1	50	25	1:1	23	88	0.759	1.211	0.919	-
1905	26590	QPSK	20	24.00	23.19	0.03	Top	Inactive	1	50	49	1:1	23	88	0.710	1.205	0.856	-
1905	26590	QPSK	20	24.00	23.10	-0.01	Top	Inactive	1	100	0	1:1	23	88	0.718	1.230	0.883	-
1905	26590	QPSK	20	25.00	24.18	0.10	Left	N/A	0	1	49	1:1	0	88	0.114	1.208	0.138	-
1905	26590	QPSK	20	24.00	23.19	0.10	Left	N/A	1	50	49	1:1	0	88	0.089	1.205	0.107	-
1860	26140	QPSK	20	15.00	14.05	0.02	Rear	Active	0	1	99	1:1	0	88	0.696	1.245	0.866	-
1882.5	26365	QPSK	20	15.00	14.10	-0.01	Rear	Active	0	1	99	1:1	0	88	0.680	1.230	0.837	-
1905	26590	QPSK	20	15.00	14.08	0.04	Rear	Active	0	1	49	1:1	0	88	0.649	1.236	0.802	-
1860	26140	QPSK	20	15.00	14.22	0.01	Rear	Active	0	50	25	1:1	0	88	0.726	1.197	0.869	-
1882.5	26365	QPSK	20	15.00	14.23	0.04	Rear	Active	0	50	25	1:1	0	88	0.713	1.194	0.851	-
1905	26590	QPSK	20	15.00	14.17	0.01	Rear	Active	0	50	25	1:1	0	88	0.676	1.211	0.818	-
1882.5	26365	QPSK	20	15.00	14.11	0.03	Rear	Active	0	100	0	1:1	0	88	0.700	1.227	0.859	-
1882.5	26365	QPSK	20	15.00	14.10	0.13	Right	Active	0	1	99	1:1	0	88	0.144	1.230	0.177	-
1882.5	26365	QPSK	20	15.00	14.23	0.19	Right	Active	0	50	25	1:1	0	88	0.153	1.194	0.183	-
1882.5	26365	QPSK	20	15.00	14.10	-0.04	Top	Active	0	1	99	1:1	0	88	0.498	1.230	0.613	-
1882.5	26365	QPSK	20	15.00	14.23	-0.01	Top	Active	0	50	25	1:1	0	88	0.542	1.194	0.647	-
1882.5	26365	QPSK	20	25.00	24.11	-0.04	Rear	Inactive	0	1	0	1:1	17	88	0.874	1.227	1.073	*

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Note: * Data entry indicate Variability measurement.

LTE Band 26 Body SAR 1g																		
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
831.5	26865	QPSK	15	25.50	24.25	-0.13	Rear	Inactive	0	1	0	1:1	17	32	0.498	1.334	**0.664**	9
831.5	26865	QPSK	15	24.50	23.31	-0.13	Rear	Inactive	1	36	18	1:1	17	32	0.410	1.315	0.539	-
831.5	26865	QPSK	15	25.50	24.25	-0.06	Right	Inactive	0	1	0	1:1	8	32	0.133	1.334	0.177	-
831.5	26865	QPSK	15	24.50	23.31	-0.05	Right	Inactive	1	36	18	1:1	8	32	0.120	1.315	0.158	-
831.5	26865	QPSK	15	25.50	24.25	-0.10	Top	Inactive	0	1	0	1:1	23	32	0.357	1.334	0.476	-
831.5	26865	QPSK	15	24.50	23.31	-0.17	Top	Inactive	1	36	18	1:1	23	32	0.299	1.315	0.393	-
831.5	26865	QPSK	15	25.50	24.25	-0.01	Left	N/A	0	1	0	1:1	0	32	0.147	1.334	0.196	-
831.5	26865	QPSK	15	24.50	23.31	0.04	Left	N/A	1	36	18	1:1	0	32	0.126	1.315	0.166	-
831.5	26865	QPSK	15	17.00	15.94	-0.17	Rear	Active	0	1	74	1:1	0	32	0.387	1.276	0.494	-
831.5	26865	QPSK	15	17.00	16.00	-0.16	Rear	Active	0	36	39	1:1	0	32	0.410	1.259	0.516	-
831.5	26865	QPSK	15	17.00	15.94	-0.04	Right	Active	0	1	74	1:1	0	32	0.057	1.276	0.073	-
831.5	26865	QPSK	15	17.00	16.00	-0.10	Right	Active	0	36	39	1:1	0	32	0.057	1.259	0.072	-
831.5	26865	QPSK	15	17.00	15.94	-0.17	Top	Active	0	1	74	1:1	0	32	0.461	1.276	0.588	-
831.5	26865	QPSK	15	17.00	16.00	-0.18	Top	Active	0	36	39	1:1	0	32	0.486	1.259	0.612	-
ULCA(LTE 5B)																		
836.5	20525	QPSK PCC	10	25.50	24.29	-0.10	Rear	Inactive	0	1	0	1:1	0	32	0.544	1.321	0.719	-
829.3	20453	QPSK SCC	5					Inactive	0	1	24	1:1	0	32				
836.5	20525	QPSK PCC	10	17.00	15.81	-0.16	Rear	Active	0	1	49	1:1	0	32	0.579	1.315	0.762	36
843.7	20597	QPSK SCC	5					Active	0	1	0	1:1	0	32				
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE Band 30 Body SAR 1g																		
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 310	27710	QPSK	10	23.30	22.49	-0.05	Rear	Inactive	0	1	0	1:1	17	4	0.365	1.205	0.440	-
2 310	27710	QPSK	10	22.30	21.53	-0.13	Rear	Inactive	1	25	12	1:1	17	4	0.298	1.194	0.356	-
2 310	27710	QPSK	10	23.30	22.49	-0.10	Right	Inactive	0	1	0	1:1	8	4	0.121	1.205	0.146	-
2 310	27710	QPSK	10	22.30	21.53	-0.03	Right	Inactive	1	25	12	1:1	8	4	0.096	1.194	0.115	-
2 310	27710	QPSK	10	23.30	22.49	-0.04	Top	Inactive	0	1	0	1:1	23	4	0.432	1.205	0.521	-
2 310	27710	QPSK	10	22.30	21.53	-0.04	Top	Inactive	1	25	12	1:1	23	4	0.346	1.194	0.413	-
2 310	27710	QPSK	10	23.30	22.49	0.01	Left	N/A	0	1	0	1:1	0	4	0.344	1.205	0.415	-
2 310	27710	QPSK	10	22.30	21.53	-0.05	Left	N/A	1	25	12	1:1	0	4	0.274	1.194	0.327	-
2 310	27710	QPSK	10	13.50	12.69	0.01	Rear	Active	0	1	0	1:1	0	4	0.549	1.205	0.662	-
2 310	27710	QPSK	10	13.50	12.65	0.02	Rear	Active	0	25	12	1:1	0	4	0.637	1.216	0.775	-
2 310	27710	QPSK	10	13.50	12.69	0.12	Right	Active	0	1	0	1:1	0	4	0.068	1.205	0.082	-
2 310	27710	QPSK	10	13.50	12.65	0.12	Right	Active	0	25	12	1:1	0	4	0.068	1.216	0.083	-
2 310	27710	QPSK	10	13.50	12.69	0.06	Top	Active	0	1	0	1:1	0	4	0.673	1.205	0.811	-
2 310	27710	QPSK	10	13.50	12.65	0.08	Top	Active	0	25	12	1:1	0	4	0.690	1.216	**0.839**	10
2 310	27710	QPSK	10	13.50	12.69	0.12	Top	Active	0	50	0	1:1	0	4	0.671	1.205	0.809	
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

LTE TDD Band 41 Body SAR 1g (Ant State:28)																	
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																
Power Class 3																	
2 593.0	40620	QPSK	20	25.50	24.71	-0.18	Rear	Inactive	0	1	49	1:1.58	17	0.262	1.199	0.314	-
2 593.0	40620	QPSK	20	24.50	23.87	-0.13	Rear	Inactive	1	50	25	1:1.58	17	0.216	1.156	0.250	-
2 593.0	40620	QPSK	20	25.50	24.71	-0.13	Right	Inactive	0	1	49	1:1.58	8	0.154	1.199	0.185	-
2 593.0	40620	QPSK	20	24.50	23.87	-0.11	Right	Inactive	1	50	25	1:1.58	8	0.126	1.156	0.146	-
2 593.0	40620	QPSK	20	25.50	24.71	-0.02	Top	Inactive	0	1	49	1:1.58	23	0.356	1.199	0.427	-
2 593.0	40620	QPSK	20	24.50	23.87	0.03	Top	Inactive	1	50	25	1:1.58	23	0.292	1.156	0.338	-
2 593.0	40620	QPSK	20	25.50	24.71	0.21	Left	N/A	0	1	49	1:1.58	0	0.142	1.199	0.170	-
2 593.0	40620	QPSK	20	24.50	23.87	0.18	Left	N/A	1	50	25	1:1.58	0	0.111	1.156	0.128	-
2506	39750	QPSK	20	15.00	14.08	0.07	Rear	Active	0	1	0	1:1.58	0	0.749	1.236	0.926	-
2549.5	40185	QPSK	20	15.00	14.17	0.01	Rear	Active	0	1	0	1:1.58	0	0.706	1.211	0.855	-
2593	40620	QPSK	20	15.00	14.33	0.01	Rear	Active	0	1	49	1:1.58	0	0.608	1.167	0.709	-
2636.5	41550	QPSK	20	15.00	14.09	0.01	Rear	Active	0	1	49	1:1.58	0	0.444	1.233	0.547	-
2680	41490	QPSK	20	15.00	13.96	0.01	Rear	Active	0	1	49	1:1.58	0	0.505	1.271	0.642	-
2506	39750	QPSK	20	15.00	14.17	0.01	Rear	Active	0	50	0	1:1.58	0	0.765	1.211	**0.926**	-
2549.5	40185	QPSK	20	15.00	14.24	0.01	Rear	Active	0	50	25	1:1.58	0	0.711	1.191	0.847	-
2593	40620	QPSK	20	15.00	14.35	0.01	Rear	Active	0	50	25	1:1.58	0	0.623	1.161	0.724	-
2636.5	41550	QPSK	20	15.00	14.24	0.01	Rear	Active	0	50	25	1:1.58	0	0.451	1.191	0.537	-
2680	41490	QPSK	20	15.00	13.99	0.01	Rear	Active	0	50	25	1:1.58	0	0.514	1.262	0.649	-
2593	40620	QPSK	20	15.00	14.30	0.04	Rear	Active	0	100	0	1:1.58	0	0.627	1.175	0.737	-
2593	40620	QPSK	20	15.00	14.33	-0.12	Right	Active	0	1	49	1:1.58	0	0.055	1.167	0.064	-
2593	40620	QPSK	20	15.00	14.35	-0.11	Right	Active	0	50	25	1:1.58	0	0.056	1.161	0.065	-
2506	39750	QPSK	20	15.00	14.08	0.14	Top	Active	0	1	0	1:1.58	0	0.705	1.236	0.871	-
2549.5	40185	QPSK	20	15.00	14.17	0.11	Top	Active	0	1	0	1:1.58	0	0.678	1.211	0.821	-
2593	40620	QPSK	20	15.00	14.33	-0.02	Top	Active	0	1	49	1:1.58	0	0.637	1.167	0.743	-
2636.5	41550	QPSK	20	15.00	14.09	0.16	Top	Active	0	1	49	1:1.58	0	0.446	1.233	0.550	-
2680	41490	QPSK	20	15.00	13.96	0.13	Top	Active	0	1	49	1:1.58	0	0.467	1.271	0.593	-
2506	39750	QPSK	20	15.00	14.17	0.12	Top	Active	0	50	0	1:1.58	0	0.714	1.211	0.864	-
2549.5	40185	QPSK	20	15.00	14.24	0.04	Top	Active	0	50	25	1:1.58	0	0.695	1.191	0.828	-
2593	40620	QPSK	20	15.00	14.35	0.16	Top	Active	0	50	25	1:1.58	0	0.780	1.161	0.906	11
2636.5	41550	QPSK	20	15.00	14.24	0.08	Top	Active	0	50	25	1:1.58	0	0.468	1.191	0.558	-
2680	41490	QPSK	20	15.00	13.99	0.06	Top	Active	0	50	25	1:1.58	0	0.447	1.262	0.564	-
2593	40620	QPSK	20	15.00	14.30	-0.06	Top	Active	0	100	0	1:1.58	0	0.375	1.175	0.441	-
2593	40620	QPSK	20	15.00	14.35	0.17	Top	Active	0	50	25	1:1.58	0	0.764	1.161	0.887	*
PCC: 2393	40620	QPSK	20	25.5	25.21	0.03	Top	Inactive	0	1	0	1:1.58	23	0.402	1.068	0.430	
SCC 2573.2	40422		20						0	1	99						
PCC: 2393	40620	QPSK	20	15	14.83	0.02	Top	Active	0	1	0	1:1.58	0	0.742	1.040	0.772	
SCC 2573.2	40422		20						0	1	99						
Power class 2 (HPUE)																	
2593	40620	QPSK	20	28.00	27.43	0.01	Top	Inactive	0	1	49	1:1.58	23	0.462	1.140	0.527	**
PCC: 2393	40620	QPSK	20	28	27.78	-0.01	Top	Inactive	0	1	0	1:1.58	23	0.477	1.052	0.502	
SCC 2573.2	40422		20						0	1	99						
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Note: * Data entry indicate Variability measurement.
** Data entry indicate LTE 41 Power Class 2(HPUE)
When Power reduction is applied to LTE B41 PC 2(HPUE), The power level of LTE B41 PC2 became same as the reduction power of LTE B41 PC3

LTE Band 66 Body SAR 1g																		
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
1 720	132072	QPSK	20	25.00	23.71	-0.11	Rear	Inactive	0	1	0	1:1	17	8	0.621	1.346	0.836	-
1 745	132322	QPSK	20	25.00	23.93	-0.14	Rear	Inactive	0	1	49	1:1	17	8	0.709	1.279	0.907	-
1 770	132572	QPSK	20	25.00	24.03	-0.10	Rear	Inactive	0	1	0	1:1	17	8	0.681	1.250	0.851	-
1 720	132072	QPSK	20	24.00	23.18	-0.17	Rear	Inactive	0	50	25	1:1	17	8	0.555	1.208	0.670	-
1 745	132322	QPSK	20	24.00	23.05	-0.11	Rear	Inactive	1	100	0	1:1	17	8	0.572	1.245	0.712	-
1 770	132572	QPSK	20	25.00	24.03	0.01	Right	Inactive	0	1	0	1:1	8	8	0.165	1.250	0.206	-
1 720	132072	QPSK	20	24.00	23.18	-0.02	Right	Inactive	1	50	25	1:1	8	8	0.144	1.208	0.174	-
1 720	132072	QPSK	20	25.00	23.71	-0.01	Top	Inactive	0	1	0	1:1	23	8	0.736	1.346	0.991	-
1 745	132322	QPSK	20	25.00	23.93	0.02	Top	Inactive	0	1	49	1:1	23	8	0.781	1.279	0.999	-
1 770	132572	QPSK	20	25.00	24.03	0.02	Top	Inactive	0	1	0	1:1	23	8	0.657	1.250	0.821	-
1 720	132072	QPSK	20	25.00	23.18	-0.01	Top	Inactive	0	50	25	1:1	23	8	0.470	1.521	0.715	-
1 745	132322	QPSK	20	24.00	23.05	0.05	Top	Inactive	1	100	0	1:1	23	8	0.641	1.245	0.798	-
1 770	132572	QPSK	20	25.00	24.03	0.05	Left	N/A	0	1	0	1:1	0	8	0.157	1.250	0.196	-
1 720	132072	QPSK	20	24.00	23.18	0.12	Left	N/A	1	50	25	1:1	0	8	0.157	1.208	0.190	-
1 720	132072	QPSK	20	15.00	13.88	-0.02	Rear	Active	0	1	49	1:1	0	8	0.792	1.294	1.025	-
1 745	132322	QPSK	20	15.00	13.95	-0.03	Rear	Active	0	1	49	1:1	0	8	0.810	1.274	1.032	-
1 770	132572	QPSK	20	15.00	14.09	-0.01	Rear	Active	0	1	0	1:1	0	8	0.810	1.233	0.999	-
1 720	132072	QPSK	20	15.00	14.15	-0.04	Rear	Active	0	50	25	1:1	0	8	0.827	1.216	1.006	-
1 745	132322	QPSK	20	15.00	14.14	-0.02	Rear	Active	0	50	25	1:1	0	8	0.831	1.219	1.013	-
1 770	132572	QPSK	20	15.00	14.26	-0.01	Rear	Active	0	50	25	1:1	0	8	0.815	1.186	0.966	-
1 770	132572	QPSK	20	15.00	14.17	-0.01	Rear	Active	0	100	0	1:1	0	8	0.799	1.211	0.967	-
1 770	132572	QPSK	20	15.00	14.09	0.14	Right	Active	0	1	0	1:1	0	8	0.104	1.233	0.128	-
1 770	132572	QPSK	20	15.00	14.26	0.13	Right	Active	0	50	25	1:1	0	8	0.111	1.186	0.132	-
1 720	132072	QPSK	20	15.00	13.88	-0.07	Top	Active	0	1	49	1:1	0	8	0.803	1.294	1.039	-
1 745	132322	QPSK	20	15.00	13.95	0.02	Top	Active	0	1	49	1:1	0	8	0.833	1.274	**1.061**	-
1 770	132572	QPSK	20	15.00	14.09	-0.05	Top	Active	0	1	0	1:1	0	8	0.804	1.233	0.991	-
1 720	132072	QPSK	20	15.00	14.15	-0.03	Top	Active	0	50	25	1:1	0	8	0.855	1.216	1.040	-
1 745	132322	QPSK	20	15.00	14.14	-0.01	Top	Active	0	50	25	1:1	0	8	0.856	1.219	1.043	-
1 770	132572	QPSK	20	15.00	14.26	-0.08	Top	Active	0	50	25	1:1	0	8	0.821	1.186	0.974	-
1 770	132572	QPSK	20	15.00	14.17	0.01	Top	Active	0	100	0	1:1	0	8	0.770	1.211	0.932	-
1 745	132322	QPSK	20	15.00	14.14	-0.11	Top	Active	0	50	25	1:1	0	8	0.863	1.219	1.052	12 *
ULCA(LTE 66B)																		
1745	132322	QPSK	PCC	15	25.0	24.10	0.07	Top	Inactive	0	1	0	1:1	0	8	0.832	1.230	1.024	-
1735.7	132229	QPSK	SCC	5					Inactive	0	1	24	1:1	0	8				
1745	132322	QPSK	PCC	15	15.00	14.08	0.13	Top	Active	0	36	0	1:1	0	8	0.753	1.236	0.931	-
1735.7	132229	QPSK	SCC	5					Active	0	12	11	1:1	0	8				
ULCA(LTE 66C)																		
1745	132322	QPSK	PCC	20	25.00	24.38	0.07	Top	Inactive	0	1	0	1:1	0	8	0.838	1.153	0.967	37
1725.2	132124	QPSK	SCC	20					Inactive	0	1	99	1:1	0	8				
1745	132322	QPSK	PCC	20	15.00	14.33	0.14	Top	Active	0	50	0	1:1	0	8	0.741	1.167	0.865	-
1725.2	132124	QPSK	SCC	20					Active	0	50	49	1:1	0	8				

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Note: * Data entry indicate Variability measurement.

LTE Band 71 Body SAR 1g																	
Frequency		Mode	BW	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
683	133322	QPSK	20	25.80	24.72	-0.07	Rear	Inactive	0	1	49	1:1	17	40	0.424	1.282	0.544	-
683	133322	QPSK	20	24.80	23.83	-0.10	Rear	Inactive	1	50	0	1:1	17	40	0.346	1.250	0.433	-
683	133322	QPSK	20	25.80	24.72	-0.13	Right	Inactive	0	1	49	1:1	8	40	0.106	1.282	0.136	-
683	133322	QPSK	20	24.80	23.83	-0.09	Right	Inactive	1	50	0	1:1	8	40	0.085	1.250	0.106	-
683	133322	QPSK	20	25.80	24.72	0.01	Top	Inactive	0	1	49	1:1	23	40	0.302	1.282	0.387	-
683	133322	QPSK	20	24.80	23.83	-0.11	Top	Inactive	1	50	0	1:1	23	40	0.297	1.250	0.371	-
683	133322	QPSK	20	25.80	24.72	-0.01	Left	N/A	0	1	49	1:1	0	40	0.131	1.282	0.168	-
683	133322	QPSK	20	24.80	23.83	0.01	Left	N/A	1	50	0	1:1	0	40	0.105	1.250	0.131	-
683	133322	QPSK	20	15.0	13.91	-0.17	Rear	Active	0	1	0	1:1	0	40	0.442	1.285	**0.568**	13
683	133322	QPSK	20	15.0	14.03	-0.16	Rear	Active	0	50	25	1:1	0	40	0.441	1.250	0.551	-
683	133322	QPSK	20	15.0	13.91	-0.05	Right	Active	0	1	0	1:1	0	40	0.048	1.285	0.062	-
683	133322	QPSK	20	15.0	14.03	0.02	Right	Active	0	50	25	1:1	0	40	0.046	1.250	0.058	-
683	133322	QPSK	20	15.0	13.91	-0.14	Top	Active	0	1	0	1:1	0	40	0.363	1.285	0.467	-
683	133322	QPSK	20	15.0	14.03	-0.15	Top	Active	0	50	25	1:1	0	40	0.368	1.250	0.460	-
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NR Band n5 Body SAR 1g																	
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.51	-0.01	Rear	Inactive	0	1	104	1:1	17	4	0.417	1.119	0.467	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.56	-0.04	Rear	Inactive	0	50	28	1:1	17	4	0.418	1.107	0.463	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.51	0.10	Right	Inactive	0	1	104	1:1	8	4	0.115	1.119	0.129	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.56	-0.01	Right	Inactive	0	50	28	1:1	8	4	0.128	1.107	0.142	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.51	0.10	Top	Inactive	0	1	104	1:1	23	4	0.337	1.119	0.377	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.56	0.11	Top	Inactive	0	50	28	1:1	23	4	0.315	1.107	0.349	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.51	0.15	Left	N/A	0	1	104	1:1	0	4	0.155	1.119	0.174	-
836.5	167300	DFT-s OFDM QPSK	20	25.00	24.56	-0.16	Left	N/A	0	50	28	1:1	0	4	0.169	1.107	0.187	-
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.74	0.10	Rear	Active	0	1	53	1:1	0	4	0.485	1.062	0.515	-
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.71	-0.07	Rear	Active	0	50	28	1:1	0	4	0.400	1.069	0.428	-
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.74	-0.15	Right	Active	0	1	53	1:1	0	4	0.071	1.062	0.075	-
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.71	-0.16	Right	Active	0	50	28	1:1	0	4	0.069	1.069	0.074	-
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.74	0.10	Top	Active	0	1	53	1:1	0	4	0.559	1.062	0.593	14
836.5	167300	DFT-s OFDM QPSK	20	17.00	16.71	0.09	Top	Active	0	50	28	1:1	0	4	0.529	1.069	0.566	-
836.5	167300	CP QPSK	20	17.00	16.01	-0.04	Top	Active	0	1	1	1:1	0	4	0.544	1.256	**0.683**	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

NR Band n25 Body SAR 1g																		
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.06	-0.11	Rear	Inactive	0	1	1	1:1	17	48	0.569	1.242	0.707	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.02	-0.10	Rear	Inactive	1	50	28	1:1	17	48	0.549	1.253	0.688	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.06	0.08	Right	Inactive	0	1	1	1:1	8	48	0.107	1.242	0.133	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.02	-0.04	Right	Inactive	1	50	28	1:1	8	48	0.096	1.253	0.120	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.06	0.04	Top	Inactive	0	1	1	1:1	23	48	0.517	1.242	0.642	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.02	0.03	Top	Inactive	1	50	28	1:1	23	48	0.551	1.253	0.690	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.06	0.12	Left	N/A	0	1	1	1:1	0	48	0.080	1.242	0.099	-
1882.5	376500	DFT-s OFDM QPSK	20	25.00	24.02	0.05	Left	N/A	1	50	28	1:1	0	48	0.098	1.253	0.123	-
1860	372000	DFT-s OFDM QPSK	20	15.00	14.02	0.16	Rear	Active	0	1	1	1:1	0	48	0.712	1.253	0.892	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.14	0.17	Rear	Active	0	1	53	1:1	0	48	0.817	1.219	0.996	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.11	0.10	Rear	Active	0	1	53	1:1	0	48	0.847	1.227	**1.040**	-
1860	372000	DFT-s OFDM QPSK	20	15.00	14.12	0.18	Rear	Active	0	50	0	1:1	0	48	0.723	1.225	0.885	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.03	0.19	Rear	Active	0	50	28	1:1	0	48	0.745	1.250	0.931	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.12	0.13	Rear	Active	0	50	56	1:1	0	48	0.754	1.225	0.923	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.21	0.07	Rear	Active	0	100	0	1:1	0	48	0.778	1.199	0.933	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.14	0.10	Right	Active	0	1	53	1:1	0	48	0.052	1.219	0.063	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.16	0.19	Right	Active	0	50	28	1:1	0	48	0.048	1.213	0.058	-
1860	372000	DFT-s OFDM QPSK	20	15.00	14.02	0.15	Top	Active	0	1	1	1:1	0	48	0.780	1.253	0.977	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.14	0.10	Top	Active	0	1	53	1:1	0	48	0.786	1.219	0.958	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.11	0.17	Top	Active	0	1	53	1:1	0	48	0.741	1.227	0.910	-
1860	372000	DFT-s OFDM QPSK	20	15.00	14.12	0.04	Top	Active	0	50	0	1:1	0	48	0.773	1.225	0.947	-
1882.5	376500	DFT-s OFDM QPSK	20	15.00	14.03	0.19	Top	Active	0	50	28	1:1	0	48	0.471	1.250	0.589	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.12	0.16	Top	Active	0	50	56	1:1	0	48	0.720	1.225	0.882	-
1905	381000	DFT-s OFDM QPSK	20	15.00	14.21	0.15	Top	Active	0	100	0	1:1	0	48	0.507	1.199	0.608	-
1905	381000	CP QPSK	20	15.00	14.51	0.17	Rear	Active	0	1	1	1:1	0	48	0.883	1.119	0.988	15
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

NR Band n41 Body SAR 1g																		
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
2592.99	518598	DFT-s OFDM QPSK	100	25.00	24.00	0.17	Rear	Inactive	0	1	1	1:4.0	4	12	0.873	1.259	1.099	16
2592.99	518598	DFT-s OFDM QPSK	100	25.00	23.71	0.18	Rear	Inactive	0	135	69	1:4.0	4	12	0.790	1.346	1.063	-
2592.99	518598	DFT-s OFDM QPSK	100	24.00	22.87	-0.15	Rear	Inactive	1	270	0	1:4.0	4	12	0.554	1.297	0.719	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	24.00	0.17	Top	Inactive	0	1	1	1:4.0	7	12	0.561	1.259	0.706	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	23.71	-0.10	Top	Inactive	0	135	69	1:4.0	7	12	0.579	1.346	0.779	-
2592.99	518598	DFT-s OFDM QPSK	100	24.00	22.87	0.11	Top	Inactive	1	270	0	1:4.0	7	12	0.41	1.297	0.532	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	24.00	0.14	Left	N/A	0	1	1	1:4.0	0	12	0.402	1.259	0.506	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	23.71	0.11	Left	N/A	0	135	69	1:4.0	0	12	0.301	1.346	0.405	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	24.00	-0.13	Right	N/A	0	1	1	1:4.0	0	12	0.00736	1.259	0.009	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	23.71	0.01	Right	N/A	0	135	69	1:4.0	0	12	0.012	1.346	0.016	-
2592.99	518598	DFT-s OFDM QPSK	100	15.00	13.56	-0.19	Rear	Active	0	1	1	1:4.0	0	12	0.303	1.393	0.422	-
2592.99	518598	DFT-s OFDM QPSK	100	15.00	13.50	-0.17	Rear	Active	0	135	69	1:4.0	0	12	0.285	1.413	0.403	-
2592.99	518598	DFT-s OFDM QPSK	100	15.00	13.56	-0.16	Top	Active	0	1	1	1:4.0	0	12	0.268	1.393	0.373	-
2592.99	518598	DFT-s OFDM QPSK	100	15.00	13.50	-0.10	Top	Active	0	135	69	1:4.0	0	12	0.249	1.413	0.352	-
2592.99	518598	CP QPSK	100	23.50	22.62	-0.11	Rear	Inactive	1.5	1	1	1:4.0	4	12	0.594	1.225	0.727	-
2592.99	518598	DFT-s OFDM QPSK	100	25.00	24.00	-0.10	Rear	Inactive	0	1	1	1:4.0	4	12	0.856	1.259	1.078	*
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population								Body 1.6 W/kg Averaged over 1 gram										

Note: * Data entry indicate Variability measurement.

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NR Band n66 Body SAR 1g																		
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
1745	349000	DFT-s OFDM QPSK	20	25.00	24.02	-0.12	Rear	Inactive	0	1	53	1:1	17	0	0.452	1.253	0.566	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.13	-0.13	Rear	Inactive	0	50	28	1:1	17	0	0.417	1.222	0.509	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.02	0.10	Right	Inactive	0	1	53	1:1	8	0	0.059	1.253	0.074	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.13	0.15	Right	Inactive	0	50	28	1:1	8	0	0.056	1.222	0.068	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.02	0.05	Top	Inactive	0	1	53	1:1	23	0	0.350	1.253	0.439	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.13	0.11	Top	Inactive	0	50	28	1:1	23	0	0.355	1.222	0.434	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.02	0.01	Left	N/A	0	1	53	1:1	0	0	0.051	1.253	0.064	-
1745	349000	DFT-s OFDM QPSK	20	25.00	24.13	0.13	Left	N/A	0	50	28	1:1	0	0	0.076	1.222	0.093	-
1720	344000	DFT-s OFDM QPSK	20	15.00	14.20	0.04	Rear	Active	0	1	1	1:1	0	0	0.847	1.202	1.018	17
1745	349000	DFT-s OFDM QPSK	20	15.00	14.21	-0.01	Rear	Active	0	1	1	1:1	0	0	0.811	1.199	0.973	
1770	354000	DFT-s OFDM QPSK	20	15.00	14.06	-0.04	Rear	Active	0	1	1	1:1	0	0	0.832	1.242	**1.033**	
1720	344000	DFT-s OFDM QPSK	20	15.00	14.24	0.01	Rear	Active	0	50	0	1:1	0	0	0.842	1.191	1.003	
1745	349000	DFT-s OFDM QPSK	20	15.00	14.31	-0.10	Rear	Active	0	50	0	1:1	0	0	0.833	1.172	0.976	
1770	354000	DFT-s OFDM QPSK	20	15.00	14.13	-0.14	Rear	Active	0	50	0	1:1	0	0	0.834	1.222	1.019	
1745	349000	DFT-s OFDM QPSK	20	15.00	14.22	0.04	Rear	Active	0	100	0	1:1	0	0	0.814	1.197	0.974	-
1745	349000	DFT-s OFDM QPSK	20	15.00	14.21	0.16	Right	Active	0	1	1	1:1	0	0	0.105	1.199	0.126	-
1745	349000	DFT-s OFDM QPSK	20	15.00	14.31	-0.19	Right	Active	0	50	0	1:1	0	0	0.090	1.172	0.105	-
1720	344000	DFT-s OFDM QPSK	20	15.00	14.20	0.13	Top	Active	0	1	1	1:1	0	0	0.779	1.202	0.937	-
1745	349000	DFT-s OFDM QPSK	20	15.00	14.21	0.13	Top	Active	0	1	1	1:1	0	0	0.780	1.199	0.936	-
1770	354000	DFT-s OFDM QPSK	20	15.00	14.06	0.16	Top	Active	0	1	1	1:1	0	0	0.766	1.242	0.951	-
1720	344000	DFT-s OFDM QPSK	20	15.00	14.24	0.05	Top	Active	0	50	0	1:1	0	0	0.778	1.191	0.927	-
1745	349000	DFT-s OFDM QPSK	20	15.00	14.31	0.06	Top	Active	0	50	0	1:1	0	0	0.787	1.172	0.923	-
1770	354000	DFT-s OFDM QPSK	20	15.00	14.13	0.16	Top	Active	0	50	0	1:1	0	0	0.775	1.222	0.947	-
1745	349000	DFT-s OFDM QPSK	20	15.00	14.22	0.16	Top	Active	0	100	0	1:1	0	0	0.767	1.197	0.918	-
1745	349000	CP QPSK	20	15.00	14.23	-0.09	Rear	Active	0	1	1	1:1	0	0	0.833	1.194	0.995	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population									Body 1.6 W/kg Averaged over 1 gram									

NR Band n71 BodySAR 1g																		
Frequency		Mode	Band Width	Tune-Up Limit (dB)	Meas. Power (dB)	Power Drift (dB)	Test Position	Sensor	MPR (dB)	RB Size	RB Offset	Duty Cycle	Distance (mm)	Ant. State	Meas. SAR (W/kg)	Scaling Factor	Scaled SAR (W/kg)	Plot No.
MHz	Ch.																	
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.60	0.02	Rear	Inactive	0	1	53	1:1	17	44	0.242	1.230	0.298	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.49	-0.01	Rear	Inactive	0	50	28	1:1	17	44	0.282	1.262	0.356	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.60	-0.01	Right	Inactive	0	1	53	1:1	8	44	0.063	1.230	0.078	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.49	-0.10	Right	Inactive	0	50	28	1:1	8	44	0.063	1.262	0.079	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.60	-0.08	Top	Inactive	0	1	53	1:1	23	44	0.167	1.230	0.205	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.49	-0.09	Top	Inactive	0	50	28	1:1	23	44	0.167	1.262	0.211	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.60	-0.18	Left	N/A	0	1	53	1:1	0	44	0.135	1.230	0.166	-
680.5	136100	DFT-s OFDM QPSK	20	25.50	24.49	-0.09	Left	N/A	0	50	28	1:1	0	44	0.123	1.262	0.155	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	14.02	-0.09	Rear	Active	0	1	53	1:1	0	44	0.241	1.253	0.302	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	13.92	-0.16	Rear	Active	0	50	56	1:1	0	44	0.206	1.282	0.264	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	14.02	-0.01	Right	Active	0	1	53	1:1	0	44	0.023	1.253	0.029	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	13.92	-0.04	Right	Active	0	50	56	1:1	0	44	0.021	1.282	0.027	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	14.02	0.10	Top	Active	0	1	53	1:1	0	44	0.327	1.253	0.410	-
680.5	136100	DFT-s OFDM QPSK	20	15.00	13.92	0.13	Top	Active	0	1	56	1:1	0	44	0.291	1.282	0.373	-
680.5	136100	CP QPSK	20	15.00	13.71	0.04	Top	Active	0	1	1	1:1	0	44	0.472	1.346	**0.635**	18
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Wi-Fi (DTS) Body SAR 1g																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 462	11	802.11b	20	1	20.00	19.73	-0.04	Rear	Ant1	Inactive	99.9	10	0.597	0.365	1.064	1.001	0.389	-
2 462	11	802.11b	20	1	20.00	19.73	0.07	Right	Ant1	Inactive	99.9	8	1.03	0.599	1.064	1.001	0.638	-
2 462	11	802.11b	20	1	20.00	19.73	0.05	Top	Ant1	Inactive	99.9	15	0.221	0.134	1.064	1.001	0.143	-
2 462	11	802.11b	20	1	20.00	19.73	0.09	Right Corner	Ant1	Inactive	99.9	13	0.309	0.185	1.064	1.001	0.197	-
2 437	6	802.11b	20	1	11.00	10.63	0.01	Rear	Ant1	Active	99.9	0	0.664	0.316	1.089	1.001	0.344	-
2 437	6	802.11b	20	1	11.00	10.63	0.09	Right	Ant1	Active	99.9	0	0.871	0.446	1.089	1.001	0.486	-
2 437	6	802.11b	20	1	11.00	10.63	0.14	Top	Ant1	Active	99.9	0	0.251	0.196	1.089	1.001	0.214	-
2 437	6	802.11b	20	1	11.00	10.63	-0.08	Right Corner	Ant1	Active	99.9	0	0.235	0.152	1.089	1.001	0.166	-
2 462	11	802.11b	20	1	20.00	19.73	0.01	Rear	Ant2	Inactive	99.9	11	0.249	0.150	1.064	1.001	0.160	-
2 462	11	802.11b	20	1	20.00	19.73	0.11	Left	Ant2	Inactive	99.9	7	0.315	0.188	1.064	1.001	0.200	-
2 462	11	802.11b	20	1	20.00	19.73	0.11	Top	Ant2	Inactive	99.9	14	0.027	0.015	1.064	1.001	0.016	-
2 462	11	802.11b	20	1	20.00	19.73	0.03	Left Corner	Ant2	Inactive	99.9	12	0.0266	0.016	1.064	1.001	0.017	-
2 437	6	802.11b	20	1	11.00	10.24	0.01	Rear	Ant2	Active	99.9	0	0.867	0.339	1.191	1.001	0.404	-
2 437	6	802.11b	20	1	11.00	10.24	0.11	Right	Ant2	Active	99.9	0	0.565	0.212	1.191	1.001	0.253	-
2 437	6	802.11b	20	1	11.00	10.24	-0.10	Top	Ant2	Active	99.9	0	0.0426	0.014	1.191	1.001	0.017	-
2 437	6	802.11b	20	1	11.00	10.24	0.15	Left Corner	Ant2	Active	99.9	0	0.0416	0.030	1.191	1.001	0.036	-
2 462	11	802.11b	20	1	23.00	22.74	0.16	Rear	MIMO	Inactive	99.9	10	0.139	0.092	1.064	1.001	0.098	-
2 462	11	802.11b	20	1	23.00	22.74	-0.13	Left	MIMO	Inactive	99.9	7	0.218	0.130	1.064	1.001	0.138	-
2 462	11	802.11b	20	1	23.00	22.74	0.07	Right	MIMO	Inactive	99.9	8	1.11	0.633	1.064	1.001	**0.674**	19
2 462	11	802.11b	20	1	23.00	22.74	-0.13	Top	MIMO	Inactive	99.9	15	0.127	0.073	1.064	1.001	0.078	-
2 462	11	802.11b	20	1	23.00	22.74		Left Corner	MIMO	Inactive	99.9	12	0.0302		1.064	1.001		-
2 462	11	802.11b	20	1	23.00	22.74		Right Corner	MIMO	Inactive	99.9	13	0.183		1.064	1.001		-
2 437	6	802.11b	20	1	14.00	13.45	0.01	Rear	MIMO	Active	99.9	0	0.741	0.332	1.191	1.001	0.396	-
2 437	6	802.11b	20	1	14.00	13.45	0.03	Left	MIMO	Active	99.9	0	0.469	0.230	1.191	1.001	0.274	-
2 437	6	802.11b	20	1	14.00	13.45	0.09	Right	MIMO	Active	99.9	0	0.751	0.331	1.191	1.001	0.395	-
2 437	6	802.11b	20	1	14.00	13.45	-0.08	Top	MIMO	Active	99.9	0	0.269	0.187	1.191	1.001	0.223	-
2 437	6	802.11b	20	1	14.00	13.45		Left Corner	MIMO	Active	99.9	0	0.117		1.191	1.001		-
2 437	6	802.11b	20	1	14.00	13.45		Right Corner	MIMO	Active	99.9	0	0.191		1.191	1.001		-

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Note: The reported SAR for MIMO mode is scaled up by Ant 1 based on Higher scaled factor.

Wi-Fi (DTS) Body SAR 1g - RSDB																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 437	6	802.11b	20	1	17.00	16.80	0.07	Rear	Ant1	Inactive	99.9	10	0.244	0.144	1.047	1.001	0.151	-
2 437	6	802.11b	20	1	17.00	16.80	-0.06	Right	Ant1	Inactive	99.9	8	0.41	0.231	1.047	1.001	0.242	20
2 437	6	802.11b	20	1	17.00	16.80	0.18	Top	Ant1	Inactive	99.9	15	0.157	0.090	1.047	1.001	0.094	-
2 437	6	802.11b	20	1	17.00	16.80	0.13	Right Corner	Ant1	Inactive	99.9	13	0.128	0.076	1.047	1.001	0.080	-
2 437	6	802.11b	20	1	9.00	8.47	0.01	Rear	Ant1	Active	99.9	0	0.507	0.198	1.130	1.001	0.224	-
2 437	6	802.11b	20	1	9.00	8.47	0.11	Right	Ant1	Active	99.9	0	0.513	0.205	1.130	1.001	0.232	-
2 437	6	802.11b	20	1	9.00	8.47	0.05	Top	Ant1	Active	99.9	0	0.193	0.122	1.130	1.001	0.138	-
2 437	6	802.11b	20	1	9.00	8.47	-0.01	Right Corner	Ant1	Active	99.9	0	0.0529	0.028	1.130	1.001	0.032	-
2 437	6	802.11b	20	1	17.00	16.29	0.01	Rear	Ant2	Inactive	99.9	11	0.214	0.120	1.178	1.001	0.141	-
2 437	6	802.11b	20	1	17.00	16.29	0.04	Left	Ant2	Inactive	99.9	7	0.291	0.171	1.178	1.001	0.202	-
2 437	6	802.11b	20	1	17.00	16.29	0.01	Top	Ant2	Inactive	99.9	14	0.0189	0.011	1.178	1.001	0.013	-
2 437	6	802.11b	20	1	17.00	16.29	0.05	Left Corner	Ant2	Inactive	99.9	12	0.0232	0.013	1.178	1.001	0.015	-
2 437	6	802.11b	20	1	9.00	8.33	0.01	Rear	Ant2	Active	99.9	0	0.458	0.202	1.167	1.002	0.236	-
2 437	6	802.11b	20	1	9.00	8.33	0.07	Left	Ant2	Active	99.9	0	0.442	0.159	1.167	1.001	0.186	-
2 437	6	802.11b	20	1	9.00	8.33	0.01	Top	Ant2	Active	99.9	0	0.0249	0.00643	1.167	1.001	0.008	-
2 437	6	802.11b	20	1	9.00	8.33	0.09	Left Corner	Ant2	Active	99.9	0	0.0777	0.027	1.167	1.001	0.032	-
2 437	6	802.11b	20	1	20.00	19.56	-0.19	Rear	MIMO	Inactive	99.9	10	0.191	0.103	1.178	1.001	0.121	-
2 437	6	802.11b	20	1	20.00	19.56	0.11	Left	MIMO	Inactive	99.9	7	0.324	0.182	1.178	1.001	0.215	-
2 437	6	802.11b	20	1	20.00	19.56	0.14	Right	MIMO	Inactive	99.9	8	0.301	0.165	1.178	1.001	0.195	-
2 437	6	802.11b	20	1	20.00	19.56	0.08	Top	MIMO	Inactive	99.9	15	0.0396	0.019	1.178	1.001	0.022	-
2 437	6	802.11b	20	1	20.00	19.56		Left Corner	MIMO	Inactive	99.9	12	0.0291		1.178	1.001		-
2 437	6	802.11b	20	1	20.00	19.56		Right Corner	MIMO	Inactive	99.9	13	0.0694		1.178	1.001		-
2 437	6	802.11b	20	1	12.00	11.41	0.01	Rear	MIMO	Active	99.9	0	0.616	0.213	1.167	1.001	0.249	-
2 437	6	802.11b	20	1	12.00	11.41	0.17	Left	MIMO	Active	99.9	0	0.54	0.223	1.167	1.001	**0.261**	-
2 437	6	802.11b	20	1	12.00	11.41	0.16	Right	MIMO	Active	99.9	0	0.325	0.141	1.167	1.001	0.165	-
2 437	6	802.11b	20	1	12.00	11.41	0.14	Top	MIMO	Active	99.9	0	0.127	0.063	1.167	1.001	0.074	-
2 437	6	802.11b	20	1	12.00	11.41		Left Corner	MIMO	Active	99.9	0	0.073		1.167	1.001		-
2 437	6	802.11b	20	1	12.00	11.41		Right Corner	MIMO	Active	99.9	0	0.18		1.167	1.001		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (DTS) Body SAR 1g –mmWave																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 437	6	802.11b	20	1	9.00	8.47	0.01	Rear	Ant1	Active	99.9	0	0.507	0.198	1.130	1.001	0.224	-
2 437	6	802.11b	20	1	9.00	8.47	0.11	Right	Ant1	Active	99.9	0	0.513	0.205	1.130	1.001	0.232	-
2 437	6	802.11b	20	1	9.00	8.47	0.05	Top	Ant1	Active	99.9	0	0.193	0.122	1.130	1.001	0.138	-
2 437	6	802.11b	20	1	9.00	8.47	0.01	Right Corner	Ant1	Active	99.9	0	0.0529		1.130	1.001		-
2 437	6	802.11b	20	1	9.00	8.33	0.01	Rear	Ant2	Active	99.9	0	0.458	0.202	1.167	1.002	0.236	-
2 437	6	802.11b	20	1	9.00	8.33	0.07	Left	Ant2	Active	99.9	0	0.442		1.167	1.001		-
2 437	6	802.11b	20	1	9.00	8.33	0.01	Top	Ant2	Active	99.9	0	0.0249	0.00643	1.167	1.001	0.008	-
2 437	6	802.11b	20	1	9.00	8.33	0.09	Left Corner	Ant2	Active	99.9	0	0.0777		1.167	1.001		-
2 437	6	802.11b	20	1	12.00	11.41	0.01	Rear	MIMO	Active	99.9	0	0.616	0.213	1.167	1.001	**0.249**	21
2 437	6	802.11b	20	1	12.00	11.41	0.17	Left	MIMO	Active	99.9	0	0.54		1.167	1.001		-
2 437	6	802.11b	20	1	12.00	11.41	0.16	Right	MIMO	Active	99.9	0	0.325	0.141	1.167	1.001	0.165	-
2 437	6	802.11b	20	1	12.00	11.41	0.14	Top	MIMO	Active	99.9	0	0.127	0.063	1.167	1.001	0.074	-
2 437	6	802.11b	20	1	12.00	11.41		Left Corner	MIMO	Active	99.9	0	0.073		1.167	1.001		-
2 437	6	802.11b	20	1	12.00	11.41		Right Corner	MIMO	Active	99.9	0	0.18		1.167	1.001		-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

Wi-Fi (DTS) Body SAR 1g – RSDB with mmWave																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
2 437	6	802.11b	20	1	8.00	7.63	0.01	Rear	Ant1	Active	99.9	0	0.282	0.114	1.089	1.001	0.124	-
2 437	6	802.11b	20	1	8.00	7.63	0.12	Right	Ant1	Active	99.9	0	0.367	0.168	1.089	1.001	**0.183**	22
2 437	6	802.11b	20	1	8.00	7.63	0.01	Top	Ant1	Active	99.9	0	0.162	0.066	1.089	1.001	0.072	-
2 437	6	802.11b	20	1	8.00	7.63		Right Corner	Ant1	Active	99.9	0	0.0894		1.089	1.001		-
2 437	6	802.11b	20	1	8.00	7.55	0.01	Rear	Ant2	Active	99.9	0	0.249	0.126	1.109	1.001	0.140	-
2 437	6	802.11b	20	1	8.00	7.55		Left	Ant2	Active	99.9	0	0.201		1.109	1.001		-
2 437	6	802.11b	20	1	8.00	7.55	0.01	Top	Ant2	Active	99.9	0	0.0185	0.00494	1.109	1.001	0.005	-
2 437	6	802.11b	20	1	8.00	7.55		Left Corner	Ant2	Active	99.9	0	0.021		1.109	1.001		-
2 437	6	802.11b	20	1	11.0	10.6	0.01	Rear	MIMO	Active	99.9	0	0.349	0.152	1.109	1.001	0.169	-
2 437	6	802.11b	20	1	11.0	10.6		Left	MIMO	Active	99.9	0	0.162		1.109	1.001		-
2 437	6	802.11b	20	1	11.0	10.6	0.13	Right	MIMO	Active	99.9	0	0.344	0.153	1.109	1.001	0.170	-
2 437	6	802.11b	20	1	11.0	10.6	0.01	Top	MIMO	Active	99.9	0	0.164	0.058	1.109	1.001	0.064	-
2 437	6	802.11b	20	1	11.0	10.6		Left Corner	MIMO	Active	99.9	0	0.0257		1.109	1.001		-
2 437	6	802.11b	20	1	11.0	10.6		Right Corner	MIMO	Active	99.9	0	0.0989		1.109	1.001		-

ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population	Body 1.6 W/kg Averaged over 1 gram

Wi-Fi (NII) Body SAR 1g UNII 2A																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5300	60	802.11a	20	6	18.0	16.00	0.15	Rear	Ant1	Inactive	99.2	10	0.52	0.220	1.585	1.008	0.351	-
5300	60	802.11a	20	6	18.0	16.00	0.12	Right	Ant1	Inactive	99.2	8	1.67	0.721	1.585	1.008	**1.152**	-
5300	60	802.11a	20	6	18.0	16.00	-0.12	Top	Ant1	Inactive	99.2	15	0.197	0.091	1.585	1.008	0.145	-
5300	60	802.11a	20	6	18.0	16.00	0.04	Right Corner	Ant1	Inactive	99.2	13	0.59	0.266	1.585	1.008	0.425	-
5290	58	802.11ac	80	MCS0	9.0	8.55	0.01	Rear	Ant1	Active	99.7	0	1.18	0.285	1.109	1.003	0.317	-
5290	58	802.11ac	80	MCS0	9.0	8.55	0.15	Right	Ant1	Active	99.7	0	2.36	0.746	1.109	1.003	0.830	23
5290	58	802.11ac	80	MCS0	9.0	8.55	-0.15	Top	Ant1	Active	99.7	0	0.325	0.123	1.109	1.003	0.137	-
5290	58	802.11ac	80	MCS0	9.0	8.55		Right Corner	Ant1	Active	99.7	0	0.69		1.109	1.003		-
5300	60	802.11a	20	6	18.0	16.88	-0.10	Rear	Ant2	Inactive	99.2	11	0.161	0.071	1.294	1.008	0.093	-
5300	60	802.11a	20	6	18.0	16.88	0.14	Left	Ant2	Inactive	99.2	7	0.369	0.160	1.294	1.008	0.209	-
5300	60	802.11a	20	6	18.0	16.88	0.16	Top	Ant2	Inactive	99.2	14	0.256	0.108	1.294	1.008	0.141	-
5300	60	802.11a	20	6	18.0	16.88	-0.18	Left Corner	Ant2	Inactive	99.2	12	0.0929	0.040	1.294	1.008	0.052	-
5290	58	802.11ac	80	MCS0	9.0	8.36	0.01	Rear	Ant2	Active	99.7	0	0.643	0.279	1.159	1.003	0.324	-
5290	58	802.11ac	80	MCS0	9.0	8.36	0.16	Left	Ant2	Active	99.7	0	0.849	0.322	1.159	1.003	0.374	-
5290	58	802.11ac	80	MCS0	9.0	8.36	0.15	Top	Ant2	Active	99.7	0	0.271	0.077	1.159	1.003	0.090	-
5290	58	802.11ac	80	MCS0	9.0	8.36		Left Corner	Ant2	Active	99.7	0	0.253		1.159	1.003		-
5300	60	802.11a	20	6	21.0	19.47	0.16	Rear	MIMO	Inactive	99.2	11	0.277	0.125	1.585	1.008	0.200	-
5300	60	802.11a	20	6	21.0	19.47	-0.14	Left	MIMO	Inactive	99.2	7	0.365	0.159	1.585	1.008	0.254	-
5 260	52	802.11a	20	6	21.0	19.41	-0.18	Right	MIMO	Inactive	99.2	8	1.51	0.616	1.585	1.008	0.984	-
5300	60	802.11a	20	6	21.0	19.47	-0.16	Right	MIMO	Inactive	99.2	8	1.63	0.715	1.585	1.008	1.142	-
5300	60	802.11a	20	6	21.0	19.47	-0.04	Top	MIMO	Inactive	99.2	15	0.192	0.092	1.585	1.008	0.147	-
5300	60	802.11a	20	6	21.0	19.47		Left Corner	MIMO	Inactive	99.2	12	0.0852		1.585	1.008		-
5300	60	802.11a	20	6	21.0	19.47		Right Corner	MIMO	Inactive	99.2	13	0.466		1.585	1.008		-
5290	58	802.11ac	80	MCS0	12.0	11.47	0.10	Rear	MIMO	Active	99.7	0	0.444	0.174	1.159	1.003	0.202	-
5290	58	802.11ac	80	MCS0	12.0	11.47		Left	MIMO	Active	99.7	0	0.31		1.159	1.003		-
5290	58	802.11ac	80	MCS0	12.0	11.47	-0.16	Right	MIMO	Active	99.7	0	1.15	0.535	1.159	1.003	0.622	-
5290	58	802.11ac	80	MCS0	12.0	11.47	0.16	Top	MIMO	Active	99.7	0	0.177	0.078	1.159	1.003	0.091	-
5290	58	802.11ac	80	MCS0	12.0	11.47	0.01	Left Corner	MIMO	Active	99.7	0	0.143		1.159	1.003		-
5290	58	802.11ac	80	MCS0	12.0	11.47	-0.14	Right Corner	MIMO	Active	99.7	0	0.564	0.191	1.159	1.003	0.222	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population																	Body 1.6 W/kg Averaged over 1 gram	

Wi-Fi (NII) Body SAR 1g UNII 2C																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5720	144	802.11a	20	6	18.0	16.09	-0.07	Rear	Ant1	Inactive	99.2	10	0.407	0.157	1.552	1.008	0.246	-
5720	144	802.11a	20	6	18.0	16.09	0.15	Right	Ant1	Inactive	99.2	8	1.34	0.562	1.552	1.008	**0.879**	-
5720	144	802.11a	20	6	18.0	16.09	0.15	Top	Ant1	Inactive	99.2	15	0.159	0.071	1.552	1.008	0.111	-
5720	144	802.11a	20	6	18.0	16.09	0.06	Right Corner	Ant1	Inactive	99.2	13	0.404	0.172	1.552	1.008	0.269	-
5610	122	802.11ac	80	MCS0	9.0	8.49	0.01	Rear	Ant1	Active	99.7	0	1.39	0.325	1.125	1.003	0.366	-
5610	122	802.11ac	80	MCS0	9.0	8.49	0.01	Right	Ant1	Active	99.7	0	1.6	0.467	1.125	1.003	0.527	-
5610	122	802.11ac	80	MCS0	9.0	8.49	-0.18	Top	Ant1	Active	99.7	0	0.237	0.088	1.125	1.003	0.099	-
5610	122	802.11ac	80	MCS0	9.0	8.49		Right Corner	Ant1	Active	99.7	0	0.763		1.125	1.003		-
5600	120	802.11a	20	6	18.0	16.89	0.02	Rear	Ant2	Inactive	99.2	11	0.236	0.098	1.291	1.008	0.128	-
5600	120	802.11a	20	6	18.0	16.89	0.13	Left	Ant2	Inactive	99.2	7	0.59	0.239	1.291	1.008	0.311	-
5600	120	802.11a	20	6	18.0	16.89	0.11	Top	Ant2	Inactive	99.2	8	0.369	0.145	1.291	1.008	0.189	-
5600	120	802.11a	20	6	18.0	16.89	0.07	Left Corner	Ant2	Inactive	99.2	8	0.198	0.083	1.291	1.008	0.108	-
5690	138	802.11ac	80	MCS0	9.0	7.85	0.01	Rear	Ant2	Active	99.7	0	0.696	0.282	1.303	1.003	0.369	-
5690	138	802.11ac	80	MCS0	9.0	7.85	0.15	Left	Ant2	Active	99.7	0	0.544	0.212	1.303	1.003	0.277	-
5690	138	802.11ac	80	MCS0	9.0	7.85	0.19	Top	Ant2	Active	99.7	0	0.136	0.033	1.303	1.003	0.043	-
5690	138	802.11ac	80	MCS0	9.0	7.85		Left Corner	Ant2	Active	99.7	0	0.355		1.303	1.003		-
5600	120	802.11a	20	6	21.0	19.42	-0.03	Rear	MIMO	Inactive	99.2	11	0.216	0.098	1.552	1.008	0.153	-
5600	120	802.11a	20	6	21.0	19.42	-0.07	Left	MIMO	Inactive	99.2	7	0.315	0.137	1.552	1.008	0.214	-
5600	120	802.11a	20	6	21.0	19.42	-0.15	Right	MIMO	Inactive	99.2	8	1.39	0.581	1.552	1.008	0.909	24
5720	144	802.11a	20	6	21.0	19.42	-0.04	Right	MIMO	Inactive	99.2	8	1.23	0.511	1.552	1.008	0.799	-
5600	120	802.11a	20	6	21.0	19.42	-0.19	Top	MIMO	Inactive	99.2	15	0.155	0.073	1.552	1.008	0.114	
5600	120	802.11a	20	6	21.0	19.42		Left Corner	MIMO	Inactive	99.2	12	0.209		1.552	1.008		-
5600	120	802.11a	20	6	21.0	19.42		Right Corner	MIMO	Inactive	99.2	13	0.389		1.552	1.008		-
5690	138	802.11ac	80	MCS0	12.0	11.13	0.01	Rear	MIMO	Active	99.7	0	0.431	0.105	1.303	1.003	0.137	-
5690	138	802.11ac	80	MCS0	12.0	11.13	0.17	Left	MIMO	Active	99.7	0	0.109	0.074	1.303	1.003	0.097	-
5690	138	802.11ac	80	MCS0	12.0	11.13	-0.11	Right	MIMO	Active	99.7	0	0.524	0.182	1.303	1.003	0.238	-
5690	138	802.11ac	80	MCS0	12.0	11.13	0.17	Top	MIMO	Active	99.7	0	0.106	0.029	1.303	1.003	0.038	-
5690	138	802.11ac	80	MCS0	12.0	11.13		Left Corner	MIMO	Active	99.7	0	0.239		1.303	1.003		-
5690	138	802.11ac	80	MCS0	12.0	11.13		Right Corner	MIMO	Active	99.7	0	0.348		1.303	1.003		-
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Wi-Fi (NII) Body SAR 1g UNII 3																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5785	157	802.11a	20	6	18.0	16.72	0.13	Rear	Ant1	Inactive	99.2	10	0.41	0.159	1.343	1.008	0.215	-
5785	157	802.11a	20	6	18.0	16.72	0.05	Right	Ant1	Inactive	99.2	8	1.3	0.542	1.343	1.008	**0.734**	25
5785	157	802.11a	20	6	18.0	16.72	0.13	Top	Ant1	Inactive	99.2	15	0.15	0.065	1.343	1.008	0.088	-
5785	157	802.11a	20	6	18.0	16.72	0.05	Right Corner	Ant1	Inactive	99.2	13	0.404	0.171	1.343	1.008	0.231	-
5775	155	802.11ac	80	MCS0	9.0	8.62	0.01	Rear	Ant1	Active	99.7	0	0.892	0.181	1.091	1.003	0.198	-
5775	155	802.11ac	80	MCS0	9.0	8.62	0.11	Right	Ant1	Active	99.7	0	1.14	0.378	1.091	1.003	0.414	-
5775	155	802.11ac	80	MCS0	9.0	8.62	0.01	Top	Ant1	Active	99.7	0	0.141	0.047	1.091	1.003	0.051	-
5775	155	802.11ac	80	MCS0	9.0	8.62		Right Corner	Ant1	Active	99.7	0	0.694		1.091	1.003		-
5745	149	802.11a	20	6	18.0	16.22	0.14	Rear	Ant2	Inactive	99.2	11	0.154	0.057	1.507	1.008	0.087	-
5745	149	802.11a	20	6	18.0	16.22	0.15	Left	Ant2	Inactive	99.2	7	0.346	0.137	1.507	1.008	0.208	-
5745	149	802.11a	20	6	18.0	16.22	0.10	Top	Ant2	Inactive	99.2	14	0.202	0.081	1.507	1.008	0.123	-
5745	149	802.11a	20	6	18.0	16.22	0.14	Left Corner	Ant2	Inactive	99.2	12	0.166	0.068	1.507	1.008	0.103	-
5775	155	802.11ac	80	MCS0	9.0	7.68	0.01	Rear	Ant2	Active	99.7	0	0.632	0.216	1.355	1.003	0.294	-
5775	155	802.11ac	80	MCS0	9.0	7.68	0.14	Right	Ant2	Active	99.7	0	0.548	0.198	1.355	1.003	0.269	-
5775	155	802.11ac	80	MCS0	9.0	7.68	0.01	Top	Ant2	Active	99.7	0	0.115	0.027	1.355	1.003	0.037	-
5775	155	802.11ac	80	MCS0	9.0	7.68	0.19	Left Corner	Ant2	Active	99.7	0	0.26	0.095	1.355	1.003	0.129	-
5745	149	802.11a	20	6	21.0	19.34	-0.19	Rear	MIMO	Inactive	99.2	11	0.144	0.069	1.507	1.008	0.105	-
5745	149	802.11a	20	6	21.0	19.34		Left	MIMO	Inactive	99.2	7	0.468		1.507	1.008		-
5745	149	802.11a	20	6	21.0	19.34	-0.11	Right	MIMO	Inactive	99.2	8	0.966	0.401	1.507	1.008	0.609	-
5745	149	802.11a	20	6	21.0	19.34	0.04	Top	MIMO	Inactive	99.2	15	0.108	0.052	1.507	1.008	0.079	-
5745	149	802.11a	20	6	21.0	19.34		Left Corner	MIMO	Inactive	99.2	12	0.169		1.507	1.008		-
5745	149	802.11a	20	6	21.0	19.34		Right Corner	MIMO	Inactive	99.2	13	0.299		1.507	1.008		-
5775	155	802.11ac	80	MCS0	12.0	11.19	0.10	Rear	MIMO	Active	99.2	0	0.244	0.109	1.355	1.003	0.148	-
5775	155	802.11ac	80	MCS0	12.0	11.19		Left	MIMO	Active	99.7	0	0.049		1.355	1.003		-
5775	155	802.11ac	80	MCS0	12.0	11.19	-0.14	Right	MIMO	Active	99.7	0	0.636	0.233	1.355	1.003	0.317	-
5775	155	802.11ac	80	MCS0	12.0	11.19	0.10	Top	MIMO	Active	99.7	0	0.0697	0.026	1.355	1.003	0.035	-
5775	155	802.11ac	80	MCS0	12.0	11.19	-0.19	Left Corner	MIMO	Active	99.7	0	0.189	0.061	1.355	1.003	0.083	-
5775	155	802.11ac	80	MCS0	12.0	11.19	0.11	Right Corner	MIMO	Active	99.7	0	0.377	0.167	1.355	1.003	0.227	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2A - RSDB																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5260	52	802.11a	20	6	15.0	14.70	0.10	Rear	Ant1	Inactive	99.2	10	0.358	0.149	1.072	1.008	0.161	-
5260	52	802.11a	20	6	15.0	14.70	0.13	Right	Ant1	Inactive	99.2	8	1.29	0.522	1.072	1.008	**0.564**	26
5260	52	802.11a	20	6	15.0	14.70	-0.13	Top	Ant1	Inactive	99.2	15	0.136	0.063	1.072	1.008	0.068	-
5260	52	802.11a	20	6	15.0	14.70	0.01	Right Corner	Ant1	Inactive	99.2	13	0.343	0.158	1.072	1.008	0.171	-
5290	58	802.11ac	80	MCS0	7.0	6.93	0.01	Rear	Ant1	Active	99.7	0	0.818	0.219	1.016	1.003	0.223	-
5290	58	802.11ac	80	MCS0	7.0	6.93	0.11	Right	Ant1	Active	99.7	0	0.967	0.339	1.016	1.003	0.345	-
5290	58	802.11ac	80	MCS0	7.0	6.93	0.01	Top	Ant1	Active	99.7	0	0.187	0.073	1.016	1.003	0.074	-
5290	58	802.11ac	80	MCS0	7.0	6.93	0.01	Right Corner	Ant1	Active	99.7	0	0.521	0.193	1.016	1.003	0.197	-
5300	60	802.11a	20	6	15.0	14.26	0.01	Rear	Ant2	Inactive	99.2	11	0.129	0.042	1.186	1.008	0.050	-
5300	60	802.11a	20	6	15.0	14.26	0.12	Left	Ant2	Inactive	99.2	7	0.272	0.109	1.186	1.008	0.130	-
5300	60	802.11a	20	6	15.0	14.26	-0.06	Top	Ant2	Inactive	99.2	14	0.143	0.058	1.186	1.008	0.069	-
5300	60	802.11a	20	6	15.0	14.26	-0.04	Left Corner	Ant2	Inactive	99.2	12	0.0654	0.029	1.186	1.008	0.035	-
5290	58	802.11ac	80	MCS0	7.0	6.45	0.01	Rear	Ant2	Active	99.7	0	0.501	0.264	1.135	1.003	0.300	-
5290	58	802.11ac	80	MCS0	7.0	6.45		Left	Ant2	Active	99.7	0	0.325		1.135	1.003		-
5290	58	802.11ac	80	MCS0	7.0	6.45	0.10	Top	Ant2	Active	99.7	0	0.123	0.046	1.135	1.003	0.052	-
5290	58	802.11ac	80	MCS0	7.0	6.45		Left Corner	Ant2	Active	99.7	0	0.0962		1.135	1.003		-
5300	60	802.11a	20	6	18.0	17.47	-0.15	Rear	MIMO	Inactive	99.2	11	0.153	0.074	1.186	1.008	0.088	-
5300	60	802.11a	20	6	18.0	17.47	-0.10	Left	MIMO	Inactive	99.2	7	0.277	0.114	1.186	1.008	0.136	-
5300	60	802.11a	20	6	18.0	17.47	-0.14	Right	MIMO	Inactive	99.2	8	1.11	0.485	1.186	1.008	0.580	-
5300	60	802.11a	20	6	18.0	17.47	-0.13	Top	MIMO	Inactive	99.2	15	0.123	0.059	1.186	1.008	0.071	-
5300	60	802.11a	20	6	18.0	17.47		Left Corner	MIMO	Inactive	99.2	12	0.0508		1.186	1.008		-
5300	60	802.11a	20	6	18.0	17.47		Right Corner	MIMO	Inactive	99.2	13	0.263		1.186	1.008		-
5290	58	802.11ac	80	MCS0	10.0	9.71	0.10	Rear	MIMO	Active	99.2	0	0.281	0.133	1.135	1.003	0.151	-
5290	58	802.11ac	80	MCS0	10.0	9.71		Left	MIMO	Active	99.7	0	0.152		1.135	1.003		-
5290	58	802.11ac	80	MCS0	10.0	9.71	-0.17	Right	MIMO	Active	99.7	0	0.647	0.279	1.135	1.003	0.318	-
5290	58	802.11ac	80	MCS0	10.0	9.71	0.15	Top	MIMO	Active	99.7	0	0.181	0.080	1.135	1.003	0.091	-
5290	58	802.11ac	80	MCS0	10.0	9.71	-0.12	Left Corner	MIMO	Active	99.7	0	0.041	0.027	1.135	1.003	0.031	-
5290	58	802.11ac	80	MCS0	10.0	9.71		Right Corner	MIMO	Active	99.7	0	0.205		1.135	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2C - RSDB																	
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5600	120	802.11a	20	6	15.0	14.81	-0.10	Rear	Ant1	Inactive	99.2	10	0.353	0.147	1.045	1.008	0.155	-
5600	120	802.11a	20	6	15.0	14.81	0.16	Right	Ant1	Inactive	99.2	8	1.37	0.543	1.045	1.008	**0.572**	27
5600	120	802.11a	20	6	15.0	14.81	-0.10	Top	Ant1	Inactive	99.2	15	0.153	0.069	1.045	1.008	0.073	-
5600	120	802.11a	20	6	15.0	14.81	0.04	Right Corner	Ant1	Inactive	99.2	13	0.325	0.143	1.045	1.008	0.151	-
5530	106	802.11ac	80	MCS0	7.0	6.59	0.01	Rear	Ant1	Active	99.7	0	0.96	0.224	1.099	1.003	0.247	-
5530	106	802.11ac	80	MCS0	7.0	6.59	0.12	Right	Ant1	Active	99.7	0	0.759	0.272	1.099	1.003	0.300	-
5530	106	802.11ac	80	MCS0	7.0	6.59		Top	Ant1	Active	99.7	0	0.214		1.099	1.003		-
5530	106	802.11ac	80	MCS0	7.0	6.59		Right Corner	Ant1	Active	99.7	0	0.589		1.099	1.003		-
5600	120	802.11a	20	6	15.0	13.41	0.19	Rear	Ant2	Inactive	99.2	11	0.157	0.063	1.442	1.008	0.092	-
5600	120	802.11a	20	6	15.0	13.41	0.16	Left	Ant2	Inactive	99.2	7	0.444	0.164	1.442	1.008	0.238	-
5600	120	802.11a	20	6	15.0	13.41	0.16	Top	Ant2	Inactive	99.2	14	0.246	0.097	1.442	1.008	0.141	-
5600	120	802.11a	20	6	15.0	13.41	0.10	Left Corner	Ant2	Inactive	99.2	12	0.113	0.048	1.442	1.008	0.070	-
5690	138	802.11ac	80	MCS0	7.0	5.74	0.01	Rear	Ant2	Active	99.7	0	0.388	0.139	1.337	1.003	0.186	-
5690	138	802.11ac	80	MCS0	7.0	5.74		Left	Ant2	Active	99.7	0	0.29		1.337	1.003		-
5690	138	802.11ac	80	MCS0	7.0	5.74	-0.19	Top	Ant2	Active	99.7	0	0.0967	0.020	1.337	1.003	0.027	-
5690	138	802.11ac	80	MCS0	7.0	5.74		Left Corner	Ant2	Active	99.7	0	0.216		1.337	1.003		-
5720	144	802.11a	20	6	18.0	17.35	-0.10	Rear	MIMO	Inactive	99.2	11	0.116	0.052	1.442	1.008	0.076	-
5720	144	802.11a	20	6	18.0	17.35		Left	MIMO	Inactive	99.2	7	0.298		1.442	1.008		-
5720	144	802.11a	20	6	18.0	17.35	-0.16	Right	MIMO	Inactive	99.2	8	0.686	0.289	1.442	1.008	0.420	-
5720	144	802.11a	20	6	18.0	17.35	-0.11	Top	MIMO	Inactive	99.2	15	0.0713	0.035	1.442	1.008	0.051	-
5720	144	802.11a	20	6	18.0	17.35		Left Corner	MIMO	Inactive	99.2	12	0.108		1.442	1.008		-
5720	144	802.11a	20	6	18.0	17.35		Right Corner	MIMO	Inactive	99.2	13	0.192		1.442	1.008		-
5690	138	802.11ac	80	MCS0	10.0	9.12	0.01	Rear	MIMO	Active	99.2	0	0.319	0.071	1.337	1.003	0.095	-
5690	138	802.11ac	80	MCS0	10.0	9.12		Left	MIMO	Active	99.7	0	0.0726		1.337	1.003		-
5690	138	802.11ac	80	MCS0	10.0	9.12	-0.13	Right	MIMO	Active	99.7	0	0.374	0.150	1.337	1.003	0.201	-
5690	138	802.11ac	80	MCS0	10.0	9.12	-0.08	Top	MIMO	Active	99.7	0	0.0847	0.020	1.337	1.003	0.027	-
5690	138	802.11ac	80	MCS0	10.0	9.12		Left Corner	MIMO	Active	99.7	0	0.160		1.337	1.003		-
5690	138	802.11ac	80	MCS0	10.0	9.12		Right Corner	MIMO	Active	99.7	0	0.312		1.337	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 3 - RSDB																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5785	157	802.11a	20	6	15.0	14.88	0.01	Rear	Ant1	Inactive	99.2	10	0.282	0.110	1.028	1.008	0.114	-
5785	157	802.11a	20	6	15.0	14.88	0.17	Right	Ant1	Inactive	99.2	8	0.981	0.391	1.028	1.008	**0.405**	28
5785	157	802.11a	20	6	15.0	14.88	0.17	Top	Ant1	Inactive	99.2	15	0.102	0.049	1.028	1.008	0.051	-
5785	157	802.11a	20	6	15.0	14.88	-0.11	Right Corner	Ant1	Inactive	99.2	13	0.247	0.110	1.028	1.008	0.114	-
5775	155	802.11ac	80	MCS0	7.0	6.79	0.01	Rear	Ant1	Active	99.7	0	0.937	0.205	1.050	1.003	0.216	-
5775	155	802.11ac	80	MCS0	7.0	6.79		Right	Ant1	Active	99.7	0	0.673		1.050	1.003		-
5775	155	802.11ac	80	MCS0	7.0	6.79	0.01	Top	Ant1	Active	99.7	0	0.0974	0.030	1.050	1.003	0.032	-
5775	155	802.11ac	80	MCS0	7.0	6.79		Right Corner	Ant1	Active	99.7	0	0.474		1.050	1.003		-
5745	149	802.11a	20	6	15.0	13.72	0.01	Rear	Ant2	Inactive	99.2	11	0.095	0.035	1.343	1.008	0.047	-
5745	149	802.11a	20	6	15.0	13.72	0.17	Left	Ant2	Inactive	99.2	7	0.159	0.062	1.343	1.008	0.084	-
5745	149	802.11a	20	6	15.0	13.72	0.16	Top	Ant2	Inactive	99.2	14	0.092	0.035	1.343	1.008	0.047	-
5745	149	802.11a	20	6	15.0	13.72	-0.18	Left Corner	Ant2	Inactive	99.2	12	0.0389	0.015	1.343	1.008	0.020	-
5775	155	802.11ac	80	MCS0	7.0	5.67	0.01	Rear	Ant2	Active	99.7	0	0.391	0.106	1.358	1.003	0.144	-
5775	155	802.11ac	80	MCS0	7.0	5.67	0.10	Left	Ant2	Active	99.7	0	0.259	0.080	1.358	1.003	0.109	-
5775	155	802.11ac	80	MCS0	7.0	5.67		Top	Ant2	Active	99.7	0	0.0678		1.358	1.003		-
5775	155	802.11ac	80	MCS0	7.0	5.67		Left Corner	Ant2	Active	99.7	0	0.145		1.358	1.003		-
5745	149	802.11a	20	6	18.0	17.33	-0.12	Rear	MIMO	Inactive	99.2	11	0.106	0.048	1.008	1.343	0.065	-
5745	149	802.11a	20	6	18.0	17.33		Left	MIMO	Inactive	99.2	7	0.367		1.008	1.343		-
5745	149	802.11a	20	6	18.0	17.33	-0.11	Right	MIMO	Inactive	99.2	8	0.670	0.278	1.008	1.343	0.376	-
5745	149	802.11a	20	6	18.0	17.33	-0.16	Top	MIMO	Inactive	99.2	15	0.069	0.032	1.008	1.343	0.043	-
5745	149	802.11a	20	6	18.0	17.33	-0.17	Left Corner	MIMO	Inactive	99.2	12	0.112	0.051	1.008	1.343	0.069	-
5745	149	802.11a	20	6	18.0	17.33		Right Corner	MIMO	Inactive	99.2	13	0.190		1.008	1.343		-
5775	155	802.11ac	80	MCS0	10.0	9.28	0.10	Rear	MIMO	Active	99.2	0	0.319	0.064	1.003	1.358	0.087	-
5775	155	802.11ac	80	MCS0	10.0	9.28		Left	MIMO	Active	99.7	0	0.0291		1.003	1.358		-
5775	155	802.11ac	80	MCS0	10.0	9.28	0.14	Right	MIMO	Active	99.7	0	0.428	0.140	1.003	1.358	0.191	-
5775	155	802.11ac	80	MCS0	10.0	9.28	0.10	Top	MIMO	Active	99.7	0	0.065	0.017	1.003	1.358	0.023	-
5775	155	802.11ac	80	MCS0	10.0	9.28	-0.11	Left Corner	MIMO	Active	99.7	0	0.114	0.040	1.003	1.358	0.054	-
5775	155	802.11ac	80	MCS0	10.0	9.28	-0.13	Right Corner	MIMO	Active	99.7	0	0.233	0.109	1.003	1.358	0.148	-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2A – mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5290	58	802.11ac	80	MCS0	8.00	7.82	0.01	Rear	Ant1	Active	99.7	0	0.442	0.157	1.042	1.003	0.164	-
5290	58	802.11ac	80	MCS0	8.00	7.82	0.12	Right	Ant1	Active	99.7	0	1.93	0.616	1.042	1.003	**0.644**	29
5290	58	802.11ac	80	MCS0	8.00	7.82	-0.01	Top	Ant1	Active	99.7	0	0.204	0.091	1.042	1.003	0.095	-
5290	58	802.11ac	80	MCS0	8.00	7.82		Right Corner	Ant1	Active	99.7	0	0.606		1.042	1.003		-
5290	58	802.11ac	80	MCS0	8.00	7.55	0.01	Rear	Ant2	Active	99.7	0	0.466	0.113	1.109	1.003	0.126	-
5290	58	802.11ac	80	MCS0	8.00	7.55		Left	Ant2	Active	99.7	0	0.594		1.109	1.003		-
5290	58	802.11ac	80	MCS0	8.00	7.55	0.16	Top	Ant2	Active	99.7	0	0.276	0.075	1.109	1.003	0.083	-
5290	58	802.11ac	80	MCS0	8.00	7.55		Left Corner	Ant2	Active	99.7	0	0.115		1.109	1.003		-
5290	58	802.11ac	80	MCS0	11.00	10.70	0.01	Rear	MIMO	Active	99.7	0	0.483	0.133	1.109	1.003	0.148	-
5290	58	802.11ac	80	MCS0	11.00	10.70		Left	MIMO	Active	99.7	0	0.44		1.109	1.003		-
5290	58	802.11ac	80	MCS0	11.00	10.70	0.04	Right	MIMO	Active	99.7	0	1.54	0.475	1.109	1.003	0.528	-
5290	58	802.11ac	80	MCS0	11.00	10.70	0.08	Top	MIMO	Active	99.7	0	0.208	0.061	1.109	1.003	0.068	-
5290	58	802.11ac	80	MCS0	11.00	10.70		Left Corner	MIMO	Active	99.7	0	0.0653		1.109	1.003		-
5290	58	802.11ac	80	MCS0	11.00	10.70		Right Corner	MIMO	Active	99.7	0	0.449		1.109	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2C – mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5530	106	802.11ac	80	MCS0	8.00	7.31	0.01	Rear	Ant1	Active	99.7	0	0.657	0.196	1.172	1.003	0.230	-
5530	106	802.11ac	80	MCS0	8.00	7.31	0.05	Right	Ant1	Active	99.7	0	1.46	0.480	1.172	1.003	**0.564**	30
5530	106	802.11ac	80	MCS0	8.00	7.31	0.12	Top	Ant1	Active	99.7	0	0.214	0.089	1.172	1.003	0.105	-
5530	106	802.11ac	80	MCS0	8.00	7.31		Right Corner	Ant1	Active	99.7	0	0.52		1.172	1.003		-
5690	138	802.11ac	80	MCS0	8.00	6.86	0.01	Rear	Ant2	Active	99.7	0	0.401	0.192	1.300	1.003	0.250	-
5690	138	802.11ac	80	MCS0	8.00	6.86		Left	Ant2	Active	99.7	0	0.175		1.300	1.003		-
5690	138	802.11ac	80	MCS0	8.00	6.86	0.04	Top	Ant2	Active	99.7	0	0.134	0.042	1.300	1.003	0.055	-
5690	138	802.11ac	80	MCS0	8.00	6.86		Left Corner	Ant2	Active	99.7	0	0.0869		1.300	1.003		-
5690	138	802.11ac	80	MCS0	11.00	10.00	0.01	Rear	MIMO	Active	99.7	0	0.489	0.106	1.300	1.003	0.138	-
5690	138	802.11ac	80	MCS0	11.00	10.00		Left	MIMO	Active	99.7	0	0.155		1.300	1.003		-
5690	138	802.11ac	80	MCS0	11.00	10.00	0.12	Right	MIMO	Active	99.7	0	0.782	0.223	1.300	1.003	0.291	-
5690	138	802.11ac	80	MCS0	11.00	10.00	0.10	Top	MIMO	Active	99.7	0	0.105	0.029	1.300	1.003	0.038	-
5690	138	802.11ac	80	MCS0	11.00	10.00		Left Corner	MIMO	Active	99.7	0	0.0428		1.300	1.003		-
5690	138	802.11ac	80	MCS0	11.00	10.00		Right Corner	MIMO	Active	99.7	0	0.411		1.300	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population																	Body 1.6 W/kg Averaged over 1 gram	

Wi-Fi (NII) Body SAR 1g UNII 3 – mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5775	155	802.11ac	80	MCS0	8.00	7.32	0.01	Rear	Ant1	Active	99.7	0	0.533	0.153	1.169	1.003	0.179	-
5775	155	802.11ac	80	MCS0	8.00	7.32	0.11	Right	Ant1	Active	99.7	0	0.976	0.297	1.169	1.003	**0.348**	31
5775	155	802.11ac	80	MCS0	8.00	7.32	0.01	Top	Ant1	Active	99.7	0	0.112	0.043	1.169	1.003	0.050	-
5775	155	802.11ac	80	MCS0	8.00	7.32		Right Corner	Ant1	Active	99.7	0	0.449		1.169	1.003		-
5775	155	802.11ac	80	MCS0	8.00	6.86	0.01	Rear	Ant2	Active	99.7	0	0.621	0.169	1.300	1.003	0.220	-
5775	155	802.11ac	80	MCS0	8.00	6.86		Left	Ant2	Active	99.7	0	0.0758		1.300	1.003		-
5775	155	802.11ac	80	MCS0	8.00	6.86	0.08	Top	Ant2	Active	99.7	0	0.0711	0.022	1.300	1.003	0.029	-
5775	155	802.11ac	80	MCS0	8.00	6.86		Left Corner	Ant2	Active	99.7	0	0.0269		1.300	1.003		-
5775	155	802.11ac	80	MCS0	11.00	10.11	0.01	Rear	MIMO	Active	99.7	0	0.388	0.151	1.300	1.003	0.197	-
5775	155	802.11ac	80	MCS0	11.00	10.11		Left	MIMO	Active	99.7	0	0.0609		1.300	1.003		-
5775	155	802.11ac	80	MCS0	11.00	10.11	-0.12	Right	MIMO	Active	99.7	0	0.697	0.230	1.300	1.003	0.300	-
5775	155	802.11ac	80	MCS0	11.00	10.11	0.01	Top	MIMO	Active	99.7	0	0.107	0.046	1.300	1.003	0.060	-
5775	155	802.11ac	80	MCS0	11.00	10.11		Left Corner	MIMO	Active	99.7	0	0.0351		1.300	1.003		-
5775	155	802.11ac	80	MCS0	11.00	10.11		Right Corner	MIMO	Active	99.7	0	0.567		1.300	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2A – RSDB with mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5290	58	802.11ac	80	MCS0	6.00	5.89	0.01	Rear	Ant1	Active	99.7	0	0.609	0.138	1.026	1.003	0.142	-
5290	58	802.11ac	80	MCS0	6.00	5.89	0.19	Right	Ant1	Active	99.7	0	0.663	0.316	1.026	1.003	**0.325**	32
5290	58	802.11ac	80	MCS0	6.00	5.89	0.10	Top	Ant1	Active	99.7	0	0.219	0.072	1.026	1.003	0.074	-
5290	58	802.11ac	80	MCS0	6.00	5.89	0.12	Right Corner	Ant1	Active	99.7	0	0.357	0.176	1.026	1.003	0.181	-
5290	58	802.11ac	80	MCS0	6.00	5.63	0.01	Rear	Ant2	Active	99.7	0	0.418	0.137	1.089	1.003	0.150	-
5290	58	802.11ac	80	MCS0	6.00	5.63		Left	Ant2	Active	99.7	0	0.275		1.089	1.003		-
5290	58	802.11ac	80	MCS0	6.00	5.63	0.01	Top	Ant2	Active	99.7	0	0.034	0.022	1.089	1.003	0.024	-
5290	58	802.11ac	80	MCS0	6.00	5.63		Left Corner	Ant2	Active	99.7	0	0.0763		1.089	1.003		-
5290	58	802.11ac	80	MCS0	9.00	8.77	0.01	Rear	MIMO	Active	99.7	0	0.582	0.111	1.089	1.003	0.121	-
5290	58	802.11ac	80	MCS0	9.00	8.77		Left	MIMO	Active	99.7	0	0.228		1.089	1.003		-
5290	58	802.11ac	80	MCS0	9.00	8.77	0.17	Right	MIMO	Active	99.7	0	0.82	0.293	1.089	1.003	0.320	-
5290	58	802.11ac	80	MCS0	9.00	8.77	0.18	Top	MIMO	Active	99.7	0	0.0951	0.039	1.089	1.003	0.043	-
5290	58	802.11ac	80	MCS0	9.00	8.77		Left Corner	MIMO	Active	99.7	0	0.0442		1.089	1.003		-
5290	58	802.11ac	80	MCS0	9.00	8.77		Right Corner	MIMO	Active	99.7	0	0.329		1.089	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 2C – RSDB with mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5690	138	802.11ac	80	MCS0	6.00	5.33	0.01	Rear	Ant1	Active	99.7	0	0.539	0.105	1.167	1.003	0.123	-
5690	138	802.11ac	80	MCS0	6.00	5.33	0.10	Right	Ant1	Active	99.7	0	0.538	0.231	1.167	1.003	**0.270**	33
5690	138	802.11ac	80	MCS0	6.00	5.33	0.07	Top	Ant1	Active	99.7	0	0.0527	0.019	1.167	1.003	0.022	-
5690	138	802.11ac	80	MCS0	6.00	5.33	0.16	Right Corner	Ant1	Active	99.7	0	0.366	0.185	1.167	1.003	0.217	-
5690	138	802.11ac	80	MCS0	6.00	5.07	0.10	Rear	Ant2	Active	99.7	0	0.303	0.114	1.239	1.003	0.142	-
5690	138	802.11ac	80	MCS0	6.00	5.07		Left	Ant2	Active	99.7	0	0.133		1.239	1.003		-
5690	138	802.11ac	80	MCS0	6.00	5.07	0.10	Top	Ant2	Active	99.7	0	0.0262	0.00971	1.239	1.003	0.012	-
5690	138	802.11ac	80	MCS0	6.00	5.07		Left Corner	Ant2	Active	99.7	0	0.0506		1.239	1.003		-
5690	138	802.11ac	80	MCS0	9.00	8.21	0.10	Rear	MIMO	Active	99.7	0	0.511	0.080	1.239	1.003	0.099	-
5690	138	802.11ac	80	MCS0	9.00	8.21	0.14	Left	MIMO	Active	99.7	0	0.0606	0.032	1.239	1.003	0.040	-
5690	138	802.11ac	80	MCS0	9.00	8.21	0.19	Right	MIMO	Active	99.7	0	0.379	0.116	1.239	1.003	0.144	-
5690	138	802.11ac	80	MCS0	9.00	8.21	-0.10	Top	MIMO	Active	99.7	0	0.0405	0.015	1.239	1.003	0.019	-
5690	138	802.11ac	80	MCS0	9.00	8.21		Left Corner	MIMO	Active	99.7	0	0.0347		1.239	1.003		-
5690	138	802.11ac	80	MCS0	9.00	8.21		Right Corner	MIMO	Active	99.7	0	0.188		1.239	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

Wi-Fi (NII) Body SAR 1g UNII 3 – RSDB with mmWave																		
Frequency		Mode	Band width (MHz)	Data Rate (Mbps)	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config.	Sensor	Duty Cycle	Distance (mm)	Area Scan Peak SAR (W/kg)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.																	
5775	155	802.11ac	80	MCS0	6.00	5.44	0.10	Rear	Ant1	Active	99.7	0	0.689	0.111	1.138	1.003	0.127	-
5775	155	802.11ac	80	MCS0	6.00	5.44	0.14	Right	Ant1	Active	99.7	0	0.418	0.179	1.138	1.003	**0.204**	34
5775	155	802.11ac	80	MCS0	6.00	5.44	0.01	Top	Ant1	Active	99.7	0	0.0323	0.013	1.138	1.003	0.015	-
5775	155	802.11ac	80	MCS0	6.00	5.44	0.14	Right Corner	Ant1	Active	99.7	0	0.296	0.151	1.138	1.003	0.172	-
5775	155	802.11ac	80	MCS0	6.00	4.93	0.10	Rear	Ant2	Active	99.7	0	0.378	0.104	1.279	1.003	0.133	-
5775	155	802.11ac	80	MCS0	6.00	4.93		Left	Ant2	Active	99.7	0	0.0519		1.279	1.003		-
5775	155	802.11ac	80	MCS0	6.00	4.93	0.18	Top	Ant2	Active	99.7	0	0.0112	0.00436	1.279	1.003	0.006	-
5775	155	802.11ac	80	MCS0	6.00	4.93		Left Corner	Ant2	Active	99.7	0	0.0207		1.279	1.003		-
5775	155	802.11ac	80	MCS0	9.00	8.20	0.01	Rear	MIMO	Active	99.7	0	0.581	0.085	1.279	1.003	0.109	-
5775	155	802.11ac	80	MCS0	9.00	8.20	0.10	Left	MIMO	Active	99.7	0	0.0357	0.019	1.279	1.003	0.024	-
5775	155	802.11ac	80	MCS0	9.00	8.20	0.07	Right	MIMO	Active	99.7	0	0.308	0.100	1.279	1.003	0.128	-
5775	155	802.11ac	80	MCS0	9.00	8.20	0.10	Top	MIMO	Active	99.7	0	0.0475	0.012	1.279	1.003	0.015	-
5775	155	802.11ac	80	MCS0	9.00	8.20		Left Corner	MIMO	Active	99.7	0	0.0212		1.279	1.003		-
5775	155	802.11ac	80	MCS0	9.00	8.20		Right Corner	MIMO	Active	99.7	0	0.164		1.279	1.003		-
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population													Body 1.6 W/kg Averaged over 1 gram					

DSS Body SAR 1g														
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Power Drift (dB)	Test Position	Ant Config	Sensor	Distance (mm)	Meas. SAR (W/kg)	Scaling Factor	Scaling Factor (Duty)	Reported SAR (W/kg)	Plot No.
MHz	Ch.													
2 441	39	Bluetooth DH5	15.00	14.18	-0.09	Rear	Ant1	Inactive	10	0.064	1.208	1.298	0.100	-
2 441	39	Bluetooth DH5	15.00	14.18	-0.03	Right	Ant1	Inactive	8	0.091	1.208	1.298	0.143	-
2 441	39	Bluetooth DH5	15.00	14.18	-0.14	Top	Ant1	Inactive	15	0.038	1.208	1.298	0.060	-
2 441	39	Bluetooth DH5	15.00	14.18	0.03	Right Corner	Ant1	Inactive	13	0.036	1.208	1.298	0.056	-
2 480	78	Bluetooth DH5	5.20	5.156	0.01	Rear	Ant1	Active	0	0.068	1.010	1.298	0.089	-
2 480	78	Bluetooth DH5	5.20	5.156	-0.15	Right	Ant1	Active	0	0.103	1.010	1.298	0.135	-
2 480	78	Bluetooth DH5	5.20	5.156	0.14	Top	Ant1	Active	0	0.040	1.010	1.298	0.052	-
2 480	78	Bluetooth DH5	5.20	5.156	-0.19	Right Corner	Ant1	Active	0	0.030	1.010	1.298	0.039	-
2 441	39	Bluetooth DH5	15.00	14.58	-0.12	Rear	Ant2	Inactive	11	0.066	1.102	1.298	0.094	-
2 441	39	Bluetooth DH5	15.00	14.58	0.10	Left	Ant2	Inactive	7	0.129	1.102	1.298	**0.184**	35
2 441	39	Bluetooth DH5	15.00	14.58	-0.18	Top	Ant2	Inactive	14	0.018	1.102	1.298	0.026	-
2 441	39	Bluetooth DH5	15.00	14.58	-0.17	Left Corner	Ant2	Inactive	12	0.016	1.102	1.298	0.023	-
2 441	39	Bluetooth DH5	5.20	4.911	0.01	Rear	Ant2	Active	0	0.091	1.069	1.298	0.126	-
2 441	39	Bluetooth DH5	5.20	4.911	-0.13	Right	Ant2	Active	0	0.109	1.069	1.298	0.151	-
2 441	39	Bluetooth DH5	5.20	4.911	0.01	Top	Ant2	Active	0	0.00	1.069	1.298	0.000	-
2 441	39	Bluetooth DH5	5.20	4.911	0.04	Left Corner	Ant2	Active	0	0.017	1.069	1.298	0.024	
ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population										Body 1.6 W/kg Averaged over 1 gram				

13.2 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in FCC KDB Publication 616217 D04v01r02 and KDB Publication 447498 D01v06
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis. the maximum tune-up tolerance limit.
7. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4.3 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
8. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D01v06 was applied to determine SAR test exclusion for adjacent edge configurations.

UMTS Notes:

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA(HSDPA/HSUPA/DC-HSDPA) SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is $\leq$ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.

LTE Notes:

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:
   When the reported SAR is ≤ 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.
   Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is ≤ 0.6 W/kg then testing at the other channels is not required for such test configurations.
6. TDD LTE (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S subframes using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4**,** the duty factor using extended cyclic prefix is 0.633(cf=1.58).
7. SAR test reduction is applied using the following criteria:
   Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is >0.8 W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are >0.8 W/kg, testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation <1.45 W/kg. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is <1.45 W/kg and its output power is not more than 0.5 dB higher than that a QPSK. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is <1.45 W/kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
8. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.
9. This device supports LTE Carrier Aggregation (CA) in the downlink Per FCC KDB publication 941225 D05A v01r02, SAR for LTE DL CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

NR Notes:

1. NR implementation of n71/n5/n26/n2/n25/4/n66 and n41 is limited to EN-DC operations only, with LTE Bands acting as anchor bands.
2. SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
3. Due to test setup limitations, SAR testing for NR was performed using FTM mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test report. This device additionally supports some EN-DC connections where additional LTE Carriers are added on the downlink only.
5. 4The device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results.Additional Tuner states were evaluated per April 2019 TCB Workshop guidance.
6. NR modulations and RB Size/Offsets were selected for testing such that configurations with the highest ouuput power were evaluated for SAR tests.
7. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 25%. SAR testing was performed using FTM mode with a 25% duty cycle applied to match final duty cycle.

WLAN Notes:

8. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHzWiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR.
9. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHzWiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode were not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.
10. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg or all test channels were measured.
11. The device was configured to transmit continuously at the required data rated, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11. for the time-domain plot and calculation for duty factor of the device.

14. Simultaneous SAR Analysis

14.1 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Active)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.404	1.243	No
	Left		0.274	0.274	No
	Right	0.197	0.487	0.684	No
	Top	0.618	0.223	0.841	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
WCDMA Band 4	Rear	0.975	0.404	1.379	No
	Left		0.274	0.274	No
	Right	0.115	0.487	0.602	No
	Top	0.941	0.223	1.164	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
WCDMA Band 5	Rear	0.869	0.404	1.273	No
	Left		0.274	0.274	No
	Right	0.159	0.487	0.646	No
	Top	0.945	0.223	1.168	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 7	Rear	0.596	0.404	1.000	No
	Left		0.274	0.274	No
	Right	0.106	0.487	0.593	No
	Top	0.805	0.223	1.028	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 12	Rear	0.742	0.404	1.146	No
	Left		0.274	0.274	No
	Right	0.051	0.487	0.538	No
	Top	0.716	0.223	0.939	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 13	Rear	0.680	0.404	1.084	No
	Left		0.274	0.274	No
	Right	0.052	0.487	0.539	No
	Top	0.782	0.223	1.005	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.404	1.190	No
	Left		0.274	0.274	No
	Right	0.075	0.487	0.562	No
	Top	0.687	0.223	0.910	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 25	Rear	0.867	0.404	1.271	No
	Left		0.274	0.274	No
	Right	0.183	0.487	0.670	No
	Top	0.647	0.223	0.870	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 26	Rear	0.516	0.404	0.920	No
	Left		0.274	0.274	No
	Right	0.073	0.487	0.560	No
	Top	0.612	0.223	0.835	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 30	Rear	0.775	0.404	1.179	No
	Left		0.274	0.274	No
	Right	0.083	0.487	0.570	No
	Top	0.839	0.223	1.062	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 41	Rear	0.926	0.404	1.330	No
	Left		0.274	0.274	No
	Right	0.065	0.487	0.552	No
	Top	0.906	0.223	1.129	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 66	Rear	1.032	0.404	1.436	No
	Left		0.274	0.274	No
	Right	0.132	0.487	0.619	No
	Top	1.061	0.223	1.284	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
LTE Band 71	Rear	0.568	0.404	0.972	No
	Left		0.274	0.274	No
	Right	0.062	0.487	0.549	No
	Top	0.467	0.223	0.690	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.404	0.919	No
	Left		0.274	0.274	No
	Right	0.075	0.487	0.562	No
	Top	0.593	0.223	0.816	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
NR n25	Rear	1.040	0.404	1.444	No
	Left		0.274	0.274	No
	Right	0.063	0.487	0.550	No
	Top	0.977	0.223	1.200	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
NR n41	Rear	0.422	0.404	0.826	No
	Left		0.274	0.274	No
	Right		0.487	0.487	No
	Top	0.373	0.223	0.596	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
NR n66	Rear	1.033	0.404	1.437	No
	Left		0.274	0.274	No
	Right	0.126	0.487	0.613	No
	Top	0.951	0.223	1.174	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No
NR n71	Rear	0.302	0.404	0.706	No
	Left		0.274	0.274	No
	Right	0.029	0.487	0.516	No
	Top	0.410	0.223	0.633	No
	Left Corner		0.036	0.036	No
	Right Corner		0.166	0.166	No

14.2 Simultaneous Transmission Scenario with 2.4 GHz WLAN (Inactive)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.389	1.366	No
	Left	0.243	0.201	0.444	No
	Right	0.293	0.674	0.967	No
	Top	1.022	0.143	1.165	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
WCDMA Band 4	Rear	0.754	0.389	1.143	No
	Left	0.133	0.201	0.334	No
	Right	0.188	0.674	0.862	No
	Top	0.813	0.143	0.956	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
WCDMA Band 5	Rear	0.713	0.389	1.102	No
	Left	0.145	0.201	0.346	No
	Right	0.169	0.674	0.843	No
	Top	0.428	0.143	0.571	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 7	Rear	0.287	0.389	0.676	No
	Left	0.255	0.201	0.456	No
	Right	0.172	0.674	0.846	No
	Top	0.471	0.143	0.614	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 12	Rear	0.507	0.389	0.896	No
	Left	0.178	0.201	0.379	No
	Right	0.124	0.674	0.798	No
	Top	0.277	0.143	0.420	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 13	Rear	0.559	0.389	0.948	No
	Left	0.140	0.201	0.341	No
	Right	0.111	0.674	0.785	No
	Top	0.424	0.143	0.567	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.389	1.171	No
	Left	0.182	0.201	0.383	No
	Right	0.167	0.674	0.841	No
	Top	0.510	0.143	0.653	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 25	Rear	1.101	0.389	1.490	No
	Left	0.138	0.201	0.339	No
	Right	0.290	0.674	0.964	No
	Top	1.079	0.143	1.222	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 26	Rear	0.664	0.389	1.053	No
	Left	0.196	0.201	0.397	No
	Right	0.177	0.674	0.851	No
	Top	0.476	0.143	0.619	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 30	Rear	0.440	0.389	0.829	No
	Left	0.415	0.201	0.616	No
	Right	0.146	0.674	0.820	No
	Top	0.521	0.143	0.664	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 41	Rear	0.314	0.389	0.703	No
	Left	0.170	0.201	0.371	No
	Right	0.185	0.674	0.859	No
	Top	0.427	0.143	0.570	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 66	Rear	0.907	0.389	1.296	No
	Left	0.196	0.201	0.397	No
	Right	0.206	0.674	0.880	No
	Top	0.999	0.143	1.142	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
LTE Band 71	Rear	0.544	0.389	0.933	No
	Left	0.168	0.201	0.369	No
	Right	0.136	0.674	0.810	No
	Top	0.387	0.143	0.530	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.389	0.856	No
	Left	0.187	0.201	0.388	No
	Right	0.142	0.674	0.816	No
	Top	0.377	0.143	0.520	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
NR n25	Rear	0.707	0.389	1.096	No
	Left	0.123	0.201	0.324	No
	Right	0.133	0.674	0.807	No
	Top	0.690	0.143	0.833	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
NR n41	Rear	1.099	0.389	1.488	No
	Left	0.506	0.201	0.707	No
	Right	0.016	0.674	0.690	No
	Top	0.779	0.143	0.922	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
NR n66	Rear	0.566	0.389	0.955	No
	Left	0.093	0.201	0.294	No
	Right	0.074	0.674	0.748	No
	Top	0.439	0.143	0.582	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No
NR n71	Rear	0.356	0.389	0.745	No
	Left	0.166	0.201	0.367	No
	Right	0.079	0.674	0.753	No
	Top	0.211	0.143	0.354	No
	Left Corner		0.017	0.017	No
	Right Corner		0.197	0.197	No

14.3 Simultaneous Transmission Scenario with 5 GHz WLAN (Active)

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.368	1.207	No
	Left		0.374	0.374	No
	Right	0.197	0.829	1.026	No
	Top	0.618	0.137	0.755	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
WCDMA Band 4	Rear	0.975	0.368	1.343	No
	Left		0.374	0.374	No
	Right	0.115	0.829	0.944	No
	Top	0.941	0.137	1.078	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
WCDMA Band 5	Rear	0.869	0.368	1.237	No
	Left		0.374	0.374	No
	Right	0.159	0.829	0.988	No
	Top	0.945	0.137	1.082	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 7	Rear	0.596	0.368	0.964	No
	Left		0.374	0.374	No
	Right	0.106	0.829	0.935	No
	Top	0.805	0.137	0.942	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 12	Rear	0.742	0.368	1.110	No
	Left		0.374	0.374	No
	Right	0.051	0.829	0.880	No
	Top	0.716	0.137	0.853	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 13	Rear	0.680	0.368	1.048	No
	Left		0.374	0.374	No
	Right	0.052	0.829	0.881	No
	Top	0.782	0.137	0.919	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.368	1.154	No
	Left		0.374	0.374	No
	Right	0.075	0.829	0.904	No
	Top	0.687	0.137	0.824	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 25	Rear	0.867	0.368	1.235	No
	Left		0.374	0.374	No
	Right	0.183	0.829	1.012	No
	Top	0.647	0.137	0.784	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 26	Rear	0.516	0.368	0.884	No
	Left		0.374	0.374	No
	Right	0.073	0.829	0.902	No
	Top	0.612	0.137	0.749	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 30	Rear	0.775	0.368	1.143	No
	Left		0.374	0.374	No
	Right	0.083	0.829	0.912	No
	Top	0.839	0.137	0.976	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 41	Rear	0.926	0.368	1.294	No
	Left		0.374	0.374	No
	Right	0.065	0.829	0.894	No
	Top	0.906	0.137	1.043	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 66	Rear	1.032	0.368	1.400	No
	Left		0.374	0.374	No
	Right	0.132	0.829	0.961	No
	Top	1.061	0.137	1.198	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
LTE Band 71	Rear	0.568	0.368	0.936	No
	Left		0.374	0.374	No
	Right	0.062	0.829	0.891	No
	Top	0.467	0.137	0.604	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.368	0.883	No
	Left		0.374	0.374	No
	Right	0.075	0.829	0.904	No
	Top	0.593	0.137	0.730	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
NR n25	Rear	1.040	0.368	1.408	No
	Left		0.374	0.374	No
	Right	0.063	0.829	0.892	No
	Top	0.977	0.137	1.114	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
NR n41	Rear	0.422	0.368	0.790	No
	Left		0.374	0.374	No
	Right		0.829	0.829	No
	Top	0.373	0.137	0.510	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
NR n66	Rear	1.033	0.368	1.401	No
	Left		0.374	0.374	No
	Right	0.126	0.829	0.955	No
	Top	0.951	0.137	1.088	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No
NR n71	Rear	0.302	0.368	0.670	No
	Left		0.374	0.374	No
	Right	0.029	0.829	0.858	No
	Top	0.410	0.137	0.547	No
	Left Corner		0.129	0.129	No
	Right Corner		0.829	0.829	No

14.4 Simultaneous Transmission Scenario with 5 GHz WLAN (Inactive)

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.351	1.328	No
	Left	0.243	0.311	0.554	No
	Right	0.293	1.153	1.446	No
	Top	1.022	0.189	1.211	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
WCDMA Band 4	Rear	0.754	0.351	1.105	No
	Left	0.133	0.311	0.444	No
	Right	0.188	1.153	1.341	No
	Top	0.813	0.189	1.002	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
WCDMA Band 5	Rear	0.713	0.351	1.064	No
	Left	0.145	0.311	0.456	No
	Right	0.169	1.153	1.322	No
	Top	0.428	0.189	0.617	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 7	Rear	0.287	0.351	0.638	No
	Left	0.255	0.311	0.566	No
	Right	0.172	1.153	1.325	No
	Top	0.471	0.189	0.660	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 12	Rear	0.507	0.351	0.858	No
	Left	0.178	0.311	0.489	No
	Right	0.124	1.153	1.277	No
	Top	0.277	0.189	0.466	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 13	Rear	0.559	0.351	0.910	No
	Left	0.140	0.311	0.451	No
	Right	0.111	1.153	1.264	No
	Top	0.424	0.189	0.613	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.351	1.133	No
	Left	0.182	0.311	0.493	No
	Right	0.167	1.153	1.320	No
	Top	0.510	0.189	0.699	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 25	Rear	1.101	0.351	1.452	No
	Left	0.138	0.311	0.449	No
	Right	0.290	1.153	1.443	No
	Top	1.079	0.189	1.268	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 26	Rear	0.664	0.351	1.015	No
	Left	0.196	0.311	0.507	No
	Right	0.177	1.153	1.330	No
	Top	0.476	0.189	0.665	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 30	Rear	0.440	0.351	0.791	No
	Left	0.415	0.311	0.726	No
	Right	0.146	1.153	1.299	No
	Top	0.521	0.189	0.710	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 41	Rear	0.314	0.351	0.665	No
	Left	0.170	0.311	0.481	No
	Right	0.185	1.153	1.338	No
	Top	0.427	0.189	0.616	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 66	Rear	0.907	0.351	1.258	No
	Left	0.196	0.311	0.507	No
	Right	0.206	1.153	1.359	No
	Top	0.999	0.189	1.188	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
LTE Band 71	Rear	0.544	0.351	0.895	No
	Left	0.168	0.311	0.479	No
	Right	0.136	1.153	1.289	No
	Top	0.387	0.189	0.576	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.351	0.818	No
	Left	0.187	0.311	0.498	No
	Right	0.142	1.153	1.295	No
	Top	0.377	0.189	0.566	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
NR n25	Rear	0.707	0.351	1.058	No
	Left	0.123	0.311	0.434	No
	Right	0.133	1.153	1.286	No
	Top	0.690	0.189	0.879	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
NR n41	Rear	1.099	0.351	1.450	No
	Left	0.506	0.311	0.817	No
	Right	0.016	1.153	1.169	No
	Top	0.779	0.189	0.968	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
NR n66	Rear	0.566	0.351	0.917	No
	Left	0.093	0.311	0.404	No
	Right	0.074	1.153	1.227	No
	Top	0.439	0.189	0.628	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No
NR n71	Rear	0.356	0.351	0.707	No
	Left	0.166	0.311	0.477	No
	Right	0.079	1.153	1.232	No
	Top	0.211	0.189	0.400	No
	Left Corner		0.108	0.108	No
	Right Corner		0.426	0.426	No

14.5 Simultaneous Transmission Scenario with 5GHz WLAN and Bluetooth (active)

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.368	0.126	1.333	No
	Left		0.374	0.204	0.578	No
	Right	0.197	0.829	0.244	1.270	No
	Top	0.618	0.137	0.075	0.830	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
WCDMA Band 4	Rear	0.975	0.368	0.126	1.469	No
	Left		0.374	0.204	0.578	No
	Right	0.115	0.829	0.244	1.188	No
	Top	0.941	0.137	0.075	1.153	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
WCDMA Band 5	Rear	0.869	0.368	0.126	1.363	No
	Left		0.374	0.204	0.578	No
	Right	0.159	0.829	0.244	1.232	No
	Top	0.945	0.137	0.075	1.157	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 7	Rear	0.596	0.368	0.126	1.090	No
	Left		0.374	0.204	0.578	No
	Right	0.106	0.829	0.244	1.179	No
	Top	0.805	0.137	0.075	1.017	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 12	Rear	0.742	0.368	0.126	1.236	No
	Left		0.374	0.204	0.578	No
	Right	0.051	0.829	0.244	1.124	No
	Top	0.716	0.137	0.075	0.928	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 13	Rear	0.680	0.368	0.126	1.174	No
	Left		0.374	0.204	0.578	No
	Right	0.052	0.829	0.244	1.125	No
	Top	0.782	0.137	0.075	0.994	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.368	0.126	1.280	No
	Left		0.374	0.204	0.578	No
	Right	0.075	0.829	0.244	1.148	No
	Top	0.687	0.137	0.075	0.899	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 25	Rear	0.867	0.368	0.126	1.361	No
	Left		0.374	0.204	0.578	No
	Right	0.183	0.829	0.244	1.256	No
	Top	0.647	0.137	0.075	0.859	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 26	Rear	0.516	0.368	0.126	1.010	No
	Left		0.374	0.204	0.578	No
	Right	0.073	0.829	0.244	1.146	No
	Top	0.612	0.137	0.075	0.824	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 30	Rear	0.775	0.368	0.126	1.269	No
	Left		0.374	0.204	0.578	No
	Right	0.083	0.829	0.244	1.156	No
	Top	0.839	0.137	0.075	1.051	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 41	Rear	0.926	0.368	0.126	1.420	No
	Left		0.374	0.204	0.578	No
	Right	0.065	0.829	0.244	1.138	No
	Top	0.906	0.137	0.075	1.118	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 66	Rear	1.032	0.368	0.126	1.526	No
	Left		0.374	0.204	0.578	No
	Right	0.132	0.829	0.244	1.205	No
	Top	1.061	0.137	0.075	1.273	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
LTE Band 71	Rear	0.568	0.368	0.126	1.062	No
	Left		0.374	0.204	0.578	No
	Right	0.062	0.829	0.244	1.135	No
	Top	0.467	0.137	0.075	0.679	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth .(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.368	0.126	1.009	No
	Left		0.374	0.204	0.578	No
	Right	0.075	0.829	0.244	1.148	No
	Top	0.593	0.137	0.075	0.805	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
NR n25	Rear	1.040	0.368	0.126	1.534	No
	Left		0.374	0.204	0.578	No
	Right	0.063	0.829	0.244	1.136	No
	Top	0.977	0.137	0.075	1.189	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
NR n41	Rear	0.422	0.368	0.126	0.916	No
	Left		0.374	0.204	0.578	No
	Right		0.829	0.244	1.073	No
	Top	0.373	0.137	0.075	0.585	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
NR n66	Rear	1.033	0.368	0.126	1.527	No
	Left		0.374	0.204	0.578	No
	Right	0.126	0.829	0.244	1.199	No
	Top	0.951	0.137	0.075	1.163	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No
NR n71	Rear	0.302	0.368	0.126	0.796	No
	Left		0.374	0.204	0.578	No
	Right	0.029	0.829	0.244	1.102	No
	Top	0.410	0.137	0.075	0.622	No
	Left Corner		0.129	0.031	0.160	No
	Right Corner		0.829	0.066	0.895	No

14.6 Simultaneous Transmission Scenario with 5GHz WLAN and Bluetooth (inactive)

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.351	0.100	1.428	No
	Left	0.243	0.311	0.184	0.738	No
	Right	0.293	1.153	0.143	1.589	No
	Top	1.022	0.189	0.060	1.271	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
WCDMA Band 4	Rear	0.754	0.351	0.100	1.205	No
	Left	0.133	0.311	0.184	0.628	No
	Right	0.188	1.153	0.143	1.484	No
	Top	0.813	0.189	0.060	1.062	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
WCDMA Band 5	Rear	0.713	0.351	0.100	1.164	No
	Left	0.145	0.311	0.184	0.640	No
	Right	0.169	1.153	0.143	1.465	No
	Top	0.428	0.189	0.060	0.677	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 7	Rear	0.287	0.351	0.100	0.738	No
	Left	0.255	0.311	0.184	0.750	No
	Right	0.172	1.153	0.143	1.468	No
	Top	0.471	0.189	0.060	0.720	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 12	Rear	0.507	0.351	0.100	0.958	No
	Left	0.178	0.311	0.184	0.673	No
	Right	0.124	1.153	0.143	1.420	No
	Top	0.277	0.189	0.060	0.526	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 13	Rear	0.559	0.351	0.100	1.010	No
	Left	0.140	0.311	0.184	0.635	No
	Right	0.111	1.153	0.143	1.407	No
	Top	0.424	0.189	0.060	0.673	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.351	0.100	1.233	No
	Left	0.182	0.311	0.184	0.677	No
	Right	0.167	1.153	0.143	1.463	No
	Top	0.510	0.189	0.060	0.759	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 25	Rear	1.101	0.351	0.100	1.552	No
	Left	0.138	0.311	0.184	0.633	No
	Right	0.290	1.153	0.143	1.586	No
	Top	1.079	0.189	0.060	1.328	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 26	Rear	0.664	0.351	0.100	1.115	No
	Left	0.196	0.311	0.184	0.691	No
	Right	0.177	1.153	0.143	1.473	No
	Top	0.476	0.189	0.060	0.725	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 30	Rear	0.440	0.351	0.100	0.891	No
	Left	0.415	0.311	0.184	0.910	No
	Right	0.146	1.153	0.143	1.442	No
	Top	0.521	0.189	0.060	0.770	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 41	Rear	0.314	0.351	0.100	0.765	No
	Left	0.170	0.311	0.184	0.665	No
	Right	0.185	1.153	0.143	1.481	No
	Top	0.427	0.189	0.060	0.676	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 66	Rear	0.907	0.351	0.100	1.358	No
	Left	0.196	0.311	0.184	0.691	No
	Right	0.206	1.153	0.143	1.502	No
	Top	0.999	0.189	0.060	1.248	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
LTE Band 71	Rear	0.544	0.351	0.100	0.995	No
	Left	0.168	0.311	0.184	0.663	No
	Right	0.136	1.153	0.143	1.432	No
	Top	0.387	0.189	0.060	0.636	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No

Simultaneous Tx	Configurations	Main (W/kg)	5 GHz WLAN (W/kg)	Bluetooth .(W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.351	0.100	0.918	No
	Left	0.187	0.311	0.184	0.682	No
	Right	0.142	1.153	0.143	1.438	No
	Top	0.377	0.189	0.060	0.626	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
NR n25	Rear	0.707	0.351	0.100	1.158	No
	Left	0.123	0.311	0.184	0.618	No
	Right	0.133	1.153	0.143	1.429	No
	Top	0.690	0.189	0.060	0.939	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
NR n41	Rear	1.099	0.351	0.100	1.550	No
	Left	0.506	0.311	0.184	1.001	No
	Right	0.016	1.153	0.143	1.312	No
	Top	0.779	0.189	0.060	1.028	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
NR n66	Rear	0.566	0.351	0.100	1.017	No
	Left	0.093	0.311	0.184	0.588	No
	Right	0.074	1.153	0.143	1.370	No
	Top	0.439	0.189	0.060	0.688	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No
NR n71	Rear	0.356	0.351	0.100	0.807	No
	Left	0.166	0.311	0.184	0.661	No
	Right	0.079	1.153	0.143	1.375	No
	Top	0.211	0.189	0.060	0.460	No
	Left Corner		0.108	0.023	0.131	No
	Right Corner		0.426	0.056	0.482	No

14.7 Simultaneous Transmission Scenario with 2.4GHz WLAN and 5GHz WLAN (active)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.404	0.368	1.611	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.197	0.487	0.829	1.513	No
	Top	0.618	0.223	0.137	0.978	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
WCDMA Band 4	Rear	0.975	0.404	0.368	1.747	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.115	0.487	0.829	1.431	No
	Top	0.941	0.223	0.137	1.301	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
WCDMA Band 5	Rear	0.869	0.404	0.368	1.641	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.159	0.487	0.829	1.475	No
	Top	0.945	0.223	0.137	1.305	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 7	Rear	0.596	0.404	0.368	1.368	No
	Left		0.274	0.374	0.648	No
	Right	0.106	0.487	0.829	1.422	No
	Top	0.805	0.223	0.137	1.165	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 12	Rear	0.742	0.404	0.368	1.514	No
	Left		0.274	0.374	0.648	No
	Right	0.051	0.487	0.829	1.367	No
	Top	0.716	0.223	0.137	1.076	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 13	Rear	0.680	0.404	0.368	1.452	No
	Left		0.274	0.374	0.648	No
	Right	0.052	0.487	0.829	1.368	No
	Top	0.782	0.223	0.137	1.142	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.404	0.368	1.558	No
	Left		0.274	0.374	0.648	No
	Right	0.075	0.487	0.829	1.391	No
	Top	0.687	0.223	0.137	1.047	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 25	Rear	0.867	0.404	0.368	1.639	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.183	0.487	0.829	1.499	No
	Top	0.647	0.223	0.137	1.007	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 26	Rear	0.516	0.404	0.368	1.288	No
	Left		0.274	0.374	0.648	No
	Right	0.073	0.487	0.829	1.389	No
	Top	0.612	0.223	0.137	0.972	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 30	Rear	0.775	0.404	0.368	1.547	No
	Left		0.274	0.374	0.648	No
	Right	0.083	0.487	0.829	1.399	No
	Top	0.839	0.223	0.137	1.199	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 41	Rear	0.926	0.404	0.368	1.698	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.065	0.487	0.829	1.381	No
	Top	0.906	0.223	0.137	1.266	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 66	Rear	1.032	0.404	0.368	1.804	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.132	0.487	0.829	1.448	No
	Top	1.061	0.223	0.137	1.421	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
LTE Band 71	Rear	0.568	0.404	0.368	1.340	No
	Left		0.274	0.374	0.648	No
	Right	0.062	0.487	0.829	1.378	No
	Top	0.467	0.223	0.137	0.827	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.404	0.368	1.287	No
	Left		0.274	0.374	0.648	No
	Right	0.075	0.487	0.829	1.391	No
	Top	0.593	0.223	0.137	0.953	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
NR n25	Rear	1.040	0.404	0.368	1.812	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.063	0.487	0.829	1.379	No
	Top	0.977	0.223	0.137	1.337	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
NR n41	Rear	0.422	0.404	0.368	1.194	No
	Left		0.274	0.374	0.648	No
	Right		0.487	0.829	1.316	No
	Top	0.373	0.223	0.137	0.733	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
NR n66	Rear	1.033	0.404	0.368	1.805	See the sec 14.9 Table
	Left		0.274	0.374	0.648	No
	Right	0.126	0.487	0.829	1.442	No
	Top	0.951	0.223	0.137	1.311	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No
NR n71	Rear	0.302	0.404	0.368	1.074	No
	Left		0.274	0.374	0.648	No
	Right	0.029	0.487	0.829	1.345	No
	Top	0.410	0.223	0.137	0.770	No
	Left Corner		0.036	0.129	0.165	No
	Right Corner		0.166	0.829	0.995	No

14.8 Simultaneous Transmission Scenario with 2.4GHz and 5GHz WLAN(inactive)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.389	0.351	1.717	See the sec 14.10 Table
	Left	0.243	0.201	0.311	0.755	No
	Right	0.293	0.674	1.153	2.120	See the sec 14.10 Table
	Top	1.022	0.143	0.189	1.354	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
WCDMA Band 4	Rear	0.754	0.389	0.351	1.494	No
	Left	0.133	0.201	0.311	0.645	No
	Right	0.188	0.674	1.153	2.015	See the sec 14.10 Table
	Top	0.813	0.143	0.189	1.145	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
WCDMA Band 5	Rear	0.713	0.389	0.351	1.453	No
	Left	0.145	0.201	0.311	0.657	No
	Right	0.169	0.674	1.153	1.996	See the sec 14.10 Table
	Top	0.428	0.143	0.189	0.760	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 7	Rear	0.287	0.389	0.351	1.027	No
	Left	0.255	0.201	0.311	0.767	No
	Right	0.172	0.674	1.153	1.999	See the sec 14.10 Table
	Top	0.471	0.143	0.189	0.803	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 12	Rear	0.507	0.389	0.351	1.247	No
	Left	0.178	0.201	0.311	0.690	No
	Right	0.124	0.674	1.153	1.951	See the sec 14.10 Table
	Top	0.277	0.143	0.189	0.609	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 13	Rear	0.559	0.389	0.351	1.299	No
	Left	0.140	0.201	0.311	0.652	No
	Right	0.111	0.674	1.153	1.938	See the sec 14.10 Table
	Top	0.424	0.143	0.189	0.756	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.389	0.351	1.522	No
	Left	0.182	0.201	0.311	0.694	No
	Right	0.167	0.674	1.153	1.994	See the sec 14.10 Table
	Top	0.510	0.143	0.189	0.842	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 25	Rear	1.101	0.389	0.351	1.841	See the sec 14.10 Table
	Left	0.138	0.201	0.311	0.650	No
	Right	0.290	0.674	1.153	2.117	See the sec 14.10 Table
	Top	1.079	0.143	0.189	1.411	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 26	Rear	0.664	0.389	0.351	1.404	No
	Left	0.196	0.201	0.311	0.708	No
	Right	0.177	0.674	1.153	2.004	See the sec 14.10 Table
	Top	0.476	0.143	0.189	0.808	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 30	Rear	0.440	0.389	0.351	1.180	No
	Left	0.415	0.201	0.311	0.927	No
	Right	0.146	0.674	1.153	1.973	See the sec 14.10 Table
	Top	0.521	0.143	0.189	0.853	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 41	Rear	0.314	0.389	0.351	1.054	No
	Left	0.170	0.201	0.311	0.682	No
	Right	0.185	0.674	1.153	2.012	See the sec 14.10 Table
	Top	0.427	0.143	0.189	0.759	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 66	Rear	0.907	0.389	0.351	1.647	See the sec 14.10 Table
	Left	0.196	0.201	0.311	0.708	No
	Right	0.206	0.674	1.153	2.033	See the sec 14.10 Table
	Top	0.999	0.143	0.189	1.331	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
LTE Band 71	Rear	0.544	0.389	0.351	1.284	No
	Left	0.168	0.201	0.311	0.680	No
	Right	0.136	0.674	1.153	1.963	See the sec 14.10 Table
	Top	0.387	0.143	0.189	0.719	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.389	0.351	1.207	No
	Left	0.187	0.201	0.311	0.699	No
	Right	0.142	0.674	1.153	1.969	See the sec 14.10 Table
	Top	0.377	0.143	0.189	0.709	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
NR n25	Rear	0.707	0.389	0.351	1.447	No
	Left	0.123	0.201	0.311	0.635	No
	Right	0.133	0.674	1.153	1.960	See the sec 14.10 Table
	Top	0.690	0.143	0.189	1.022	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
NR n41	Rear	1.099	0.389	0.351	1.839	See the sec 14.10 Table
	Left	0.506	0.201	0.311	1.018	No
	Right	0.016	0.674	1.153	1.843	See the sec 14.10 Table
	Top	0.779	0.143	0.189	1.111	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
NR n66	Rear	0.566	0.389	0.351	1.306	No
	Left	0.093	0.201	0.311	0.605	No
	Right	0.074	0.674	1.153	1.901	See the sec 14.10 Table
	Top	0.439	0.143	0.189	0.771	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No
NR n71	Rear	0.356	0.389	0.351	1.096	No
	Left	0.166	0.201	0.311	0.678	No
	Right	0.079	0.674	1.153	1.906	See the sec 14.10 Table
	Top	0.211	0.143	0.189	0.543	No
	Left Corner		0.017	0.108	0.125	No
	Right Corner		0.197	0.426	0.623	No

14.9 Simultaneous Transmission Scenario with 2.4GHz and 5GHz WLAN(active) - RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.249	0.300	1.388	No
	Left		0.261	0.300	0.561	No
	Right	0.197	0.232	0.345	0.774	No
	Top	0.618	0.138	0.091	0.847	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
WCDMA Band 4	Rear	0.975	0.249	0.300	1.524	No
	Left		0.261	0.300	0.561	No
	Right	0.115	0.232	0.345	0.692	No
	Top	0.941	0.138	0.091	1.170	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
WCDMA Band 5	Rear	0.869	0.249	0.300	1.418	No
	Left		0.261	0.300	0.561	No
	Right	0.159	0.232	0.345	0.736	No
	Top	0.945	0.138	0.091	1.174	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 7	Rear	0.596	0.249	0.300	1.145	No
	Left		0.261	0.300	0.561	No
	Right	0.106	0.232	0.345	0.683	No
	Top	0.805	0.138	0.091	1.034	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 12	Rear	0.742	0.249	0.300	1.291	No
	Left		0.261	0.300	0.561	No
	Right	0.051	0.232	0.345	0.628	No
	Top	0.716	0.138	0.091	0.945	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 13	Rear	0.680	0.249	0.300	1.229	No
	Left		0.261	0.300	0.561	No
	Right	0.052	0.232	0.345	0.629	No
	Top	0.782	0.138	0.091	1.011	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.249	0.300	1.335	No
	Left		0.261	0.300	0.561	No
	Right	0.075	0.232	0.345	0.652	No
	Top	0.687	0.138	0.091	0.916	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 25	Rear	0.867	0.249	0.300	1.416	No
	Left		0.261	0.300	0.561	No
	Right	0.183	0.232	0.345	0.760	No
	Top	0.647	0.138	0.091	0.876	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 26	Rear	0.516	0.249	0.300	1.065	No
	Left		0.261	0.300	0.561	No
	Right	0.073	0.232	0.345	0.650	No
	Top	0.612	0.138	0.091	0.841	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 30	Rear	0.775	0.249	0.300	1.324	No
	Left		0.261	0.300	0.561	No
	Right	0.083	0.232	0.345	0.660	No
	Top	0.839	0.138	0.091	1.068	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 41	Rear	0.926	0.249	0.300	1.475	No
	Left		0.261	0.300	0.561	No
	Right	0.065	0.232	0.345	0.642	No
	Top	0.906	0.138	0.091	1.135	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 66	Rear	1.032	0.249	0.300	1.581	No
	Left		0.261	0.300	0.561	No
	Right	0.132	0.232	0.345	0.709	No
	Top	1.061	0.138	0.091	1.290	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
LTE Band 71	Rear	0.568	0.249	0.300	1.117	No
	Left		0.261	0.300	0.561	No
	Right	0.062	0.232	0.345	0.639	No
	Top	0.467	0.138	0.091	0.696	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.249	0.300	1.064	No
	Left		0.261	0.300	0.561	No
	Right	0.075	0.232	0.345	0.652	No
	Top	0.593	0.138	0.091	0.822	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
NR n25	Rear	1.040	0.249	0.300	1.589	No
	Left		0.261	0.300	0.561	No
	Right	0.063	0.232	0.345	0.640	No
	Top	0.977	0.138	0.091	1.206	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
NR n41	Rear	0.422	0.249	0.300	0.971	No
	Left		0.261	0.300	0.561	No
	Right		0.232	0.345	0.577	No
	Top	0.373	0.138	0.091	0.602	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
NR n66	Rear	1.033	0.249	0.300	1.582	No
	Left		0.261	0.300	0.561	No
	Right	0.126	0.232	0.345	0.703	No
	Top	0.951	0.138	0.091	1.180	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No
NR n71	Rear	0.302	0.249	0.300	0.851	No
	Left		0.261	0.300	0.561	No
	Right	0.029	0.232	0.345	0.606	No
	Top	0.410	0.138	0.091	0.639	No
	Left Corner		0.032	0.300	0.332	No
	Right Corner		0.032	0.197	0.229	No

14.10 Simultaneous Transmission Scenario with 2.4GHz and 5GHz WLAN(inactive) - RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.151	0.161	1.289	No
	Left	0.243	0.215	0.239	0.697	No
	Right	0.293	0.242	0.580	1.115	No
	Top	1.022	0.094	0.141	1.257	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
WCDMA Band 4	Rear	0.754	0.151	0.161	1.066	No
	Left	0.133	0.215	0.239	0.587	No
	Right	0.188	0.242	0.580	1.010	No
	Top	0.813	0.094	0.141	1.048	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
WCDMA Band 5	Rear	0.713	0.151	0.161	1.025	No
	Left	0.145	0.215	0.239	0.599	No
	Right	0.169	0.242	0.580	0.991	No
	Top	0.428	0.094	0.141	0.663	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 7	Rear	0.287	0.151	0.161	0.599	No
	Left	0.255	0.215	0.239	0.709	No
	Right	0.172	0.242	0.580	0.994	No
	Top	0.471	0.094	0.141	0.706	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 12	Rear	0.507	0.151	0.161	0.819	No
	Left	0.178	0.215	0.239	0.632	No
	Right	0.124	0.242	0.580	0.946	No
	Top	0.277	0.094	0.141	0.512	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 13	Rear	0.559	0.151	0.161	0.871	No
	Left	0.140	0.215	0.239	0.594	No
	Right	0.111	0.242	0.580	0.933	No
	Top	0.424	0.094	0.141	0.659	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.151	0.161	1.094	No
	Left	0.182	0.215	0.239	0.636	No
	Right	0.167	0.242	0.580	0.989	No
	Top	0.510	0.094	0.141	0.745	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 25	Rear	1.101	0.151	0.161	1.413	No
	Left	0.138	0.215	0.239	0.592	No
	Right	0.290	0.242	0.580	1.112	No
	Top	1.079	0.094	0.141	1.314	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 26	Rear	0.664	0.151	0.161	0.976	No
	Left	0.196	0.215	0.239	0.650	No
	Right	0.177	0.242	0.580	0.999	No
	Top	0.476	0.094	0.141	0.711	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 30	Rear	0.440	0.151	0.161	0.752	No
	Left	0.415	0.215	0.239	0.869	No
	Right	0.146	0.242	0.580	0.968	No
	Top	0.521	0.094	0.141	0.756	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 41	Rear	0.314	0.151	0.161	0.626	No
	Left	0.170	0.215	0.239	0.624	No
	Right	0.185	0.242	0.580	1.007	No
	Top	0.427	0.094	0.141	0.662	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 66	Rear	0.907	0.151	0.161	1.219	No
	Left	0.196	0.215	0.239	0.650	No
	Right	0.206	0.242	0.580	1.028	No
	Top	0.999	0.094	0.141	1.234	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
LTE Band 71	Rear	0.544	0.151	0.161	0.856	No
	Left	0.168	0.215	0.239	0.622	No
	Right	0.136	0.242	0.580	0.958	No
	Top	0.387	0.094	0.141	0.622	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.151	0.161	0.779	No
	Left	0.187	0.215	0.239	0.641	No
	Right	0.142	0.242	0.580	0.964	No
	Top	0.377	0.094	0.141	0.612	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
NR n25	Rear	0.707	0.151	0.161	1.019	No
	Left	0.123	0.215	0.239	0.577	No
	Right	0.133	0.242	0.580	0.955	No
	Top	0.690	0.094	0.141	0.925	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
NR n41	Rear	1.099	0.151	0.161	1.411	No
	Left	0.506	0.215	0.239	0.960	No
	Right	0.016	0.242	0.580	0.838	No
	Top	0.779	0.094	0.141	1.014	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
NR n66	Rear	0.566	0.151	0.161	0.878	No
	Left	0.093	0.215	0.239	0.547	No
	Right	0.074	0.242	0.580	0.896	No
	Top	0.439	0.094	0.141	0.674	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No
NR n71	Rear	0.356	0.151	0.161	0.668	No
	Left	0.166	0.215	0.239	0.620	No
	Right	0.079	0.242	0.580	0.901	No
	Top	0.211	0.094	0.141	0.446	No
	Left Corner		0.015	0.070	0.085	No
	Right Corner		0.080	0.171	0.251	No

14.11 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant1) WLAN and Bluetooth(chain0) . (active)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.404	0.366	0.089	1.698	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.197		0.829	0.244	1.270	No
	Top	0.618	0.017	0.137	0.075	0.847	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
WCDMA Band 4	Rear	0.975	0.404	0.366	0.089	1.834	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.115		0.829	0.244	1.188	No
	Top	0.941	0.017	0.137	0.075	1.170	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
WCDMA Band 5	Rear	0.869	0.404	0.366	0.089	1.728	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.159		0.829	0.244	1.232	No
	Top	0.945	0.017	0.137	0.075	1.174	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 7	Rear	0.596	0.404	0.366	0.089	1.455	No
	Left		0.253			0.253	No
	Right	0.106		0.829	0.244	1.179	No
	Top	0.805	0.017	0.137	0.075	1.034	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 12	Rear	0.742	0.404	0.366	0.089	1.601	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.051		0.829	0.244	1.124	No
	Top	0.716	0.017	0.137	0.075	0.945	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 13	Rear	0.680	0.404	0.366	0.089	1.539	No
	Left		0.253			0.253	No
	Right	0.052		0.829	0.244	1.125	No
	Top	0.782	0.017	0.137	0.075	1.011	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.404	0.366	0.089	1.645	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.075		0.829	0.244	1.148	No
	Top	0.687	0.017	0.137	0.075	0.916	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 25	Rear	0.867	0.404	0.366	0.089	1.726	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.183		0.829	0.244	1.256	No
	Top	0.647	0.017	0.137	0.075	0.876	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 26	Rear	0.516	0.404	0.366	0.089	1.375	No
	Left		0.253			0.253	No
	Right	0.073		0.829	0.244	1.146	No
	Top	0.612	0.017	0.137	0.075	0.841	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 30	Rear	0.775	0.404	0.366	0.089	1.634	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.083		0.829	0.244	1.156	No
	Top	0.839	0.017	0.137	0.075	1.068	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 41	Rear	0.926	0.404	0.366	0.089	1.785	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.065		0.829	0.244	1.138	No
	Top	0.906	0.017	0.137	0.075	1.135	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 66	Rear	1.032	0.404	0.366	0.089	1.891	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.132		0.829	0.244	1.205	No
	Top	1.061	0.017	0.137	0.075	1.290	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
LTE Band 71	Rear	0.568	0.404	0.366	0.089	1.427	No
	Left		0.253			0.253	No
	Right	0.062		0.829	0.244	1.135	No
	Top	0.467	0.017	0.137	0.075	0.696	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.404	0.366	0.089	1.374	No
	Left		0.253			0.253	No
	Right	0.075		0.829	0.244	1.148	No
	Top	0.593	0.017	0.137	0.075	0.822	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
NR n25	Rear	1.040	0.404	0.366	0.089	1.899	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.063		0.829	0.244	1.136	No
	Top	0.977	0.017	0.137	0.075	1.206	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
NR n41	Rear	0.422	0.404	0.366	0.089	1.281	No
	Left		0.253			0.253	No
	Right			0.829	0.244	1.073	No
	Top	0.373	0.017	0.137	0.075	0.602	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
NR n66	Rear	1.033	0.404	0.366	0.089	1.892	See the sec 14.13 Table
	Left		0.253			0.253	No
	Right	0.126		0.829	0.244	1.199	No
	Top	0.951	0.017	0.137	0.075	1.180	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No
NR n71	Rear	0.302	0.404	0.366	0.089	1.161	No
	Left		0.253			0.253	No
	Right	0.029		0.829	0.244	1.102	No
	Top	0.410	0.017	0.137	0.075	0.639	No
	Left Corner		0.036			0.036	No
	Right Corner			0.829	0.066	0.895	No

14.12 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant1) WLAN and Bluetooth(chain0). (inactive)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.160	0.351	0.100	1.588	No
	Left	0.243	0.201			0.444	No
	Right	0.293		1.153	0.143	1.589	No
	Top	1.022	0.016	0.146	0.060	1.244	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
WCDMA Band 4	Rear	0.754	0.160	0.351	0.100	1.365	No
	Left	0.133	0.201			0.334	No
	Right	0.188		1.153	0.143	1.484	No
	Top	0.813	0.016	0.146	0.060	1.035	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
WCDMA Band 5	Rear	0.713	0.160	0.351	0.100	1.324	No
	Left	0.145	0.201			0.346	No
	Right	0.169		1.153	0.143	1.465	No
	Top	0.428	0.016	0.146	0.060	0.650	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 7	Rear	0.287	0.160	0.351	0.100	0.898	No
	Left	0.255	0.201			0.456	No
	Right	0.172		1.153	0.143	1.468	No
	Top	0.471	0.016	0.146	0.060	0.693	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 12	Rear	0.507	0.160	0.351	0.100	1.118	No
	Left	0.178	0.201			0.379	No
	Right	0.124		1.153	0.143	1.420	No
	Top	0.277	0.016	0.146	0.060	0.499	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 13	Rear	0.559	0.160	0.351	0.100	1.170	No
	Left	0.140	0.201			0.341	No
	Right	0.111		1.153	0.143	1.407	No
	Top	0.424	0.016	0.146	0.060	0.646	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.160	0.351	0.100	1.393	No
	Left	0.182	0.201			0.383	No
	Right	0.167		1.153	0.143	1.463	No
	Top	0.510	0.016	0.146	0.060	0.732	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 25	Rear	1.101	0.160	0.351	0.100	1.712	See the sec 14.14 Table
	Left	0.138	0.201			0.339	No
	Right	0.290		1.153	0.143	1.586	No
	Top	1.079	0.016	0.146	0.060	1.301	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 26	Rear	0.664	0.160	0.351	0.100	1.275	No
	Left	0.196	0.201			0.397	No
	Right	0.177		1.153	0.143	1.473	No
	Top	0.476	0.016	0.146	0.060	0.698	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 30	Rear	0.440	0.160	0.351	0.100	1.051	No
	Left	0.415	0.201			0.616	No
	Right	0.146		1.153	0.143	1.442	No
	Top	0.521	0.016	0.146	0.060	0.743	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 41	Rear	0.314	0.160	0.351	0.100	0.925	No
	Left	0.170	0.201			0.371	No
	Right	0.185		1.153	0.143	1.481	No
	Top	0.427	0.016	0.146	0.060	0.649	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 66	Rear	0.907	0.160	0.351	0.100	1.518	No
	Left	0.196	0.201			0.397	No
	Right	0.206		1.153	0.143	1.502	No
	Top	0.999	0.016	0.146	0.060	1.221	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
LTE Band 71	Rear	0.544	0.160	0.351	0.100	1.155	No
	Left	0.168	0.201			0.369	No
	Right	0.136		1.153	0.143	1.432	No
	Top	0.387	0.016	0.146	0.060	0.609	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.160	0.351	0.100	1.078	No
	Left	0.187	0.201			0.388	No
	Right	0.142		1.153	0.143	1.438	No
	Top	0.377	0.016	0.146	0.060	0.599	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
NR n25	Rear	0.707	0.160	0.351	0.100	1.318	No
	Left	0.123	0.201			0.324	No
	Right	0.133		1.153	0.143	1.429	No
	Top	0.690	0.016	0.146	0.060	0.912	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
NR n41	Rear	1.099	0.160	0.351	0.100	1.710	See the sec 14.14 Table
	Left	0.506	0.201			0.707	No
	Right	0.016		1.153	0.143	1.312	No
	Top	0.779	0.016	0.146	0.060	1.001	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
NR n66	Rear	0.566	0.160	0.351	0.100	1.177	No
	Left	0.093	0.201			0.294	No
	Right	0.074		1.153	0.143	1.370	No
	Top	0.439	0.016	0.146	0.060	0.661	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No
NR n71	Rear	0.356	0.160	0.351	0.100	0.967	No
	Left	0.166	0.201			0.367	No
	Right	0.079		1.153	0.143	1.375	No
	Top	0.211	0.016	0.146	0.060	0.433	No
	Left Corner		0.017			0.017	No
	Right Corner			0.426	0.056	0.482	No

14.13 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant1) WLAN and Bluetooth(chain0) .(active) -RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.236	0.247	0.089	1.411	No
	Left		0.186			0.186	No
	Right	0.197		0.345	0.244	0.786	No
	Top	0.618	0.008	0.074	0.075	0.775	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
WCDMA Band 4	Rear	0.975	0.236	0.247	0.089	1.547	No
	Left		0.186			0.186	No
	Right	0.115		0.345	0.244	0.704	No
	Top	0.941	0.008	0.074	0.075	1.098	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
WCDMA Band 5	Rear	0.869	0.236	0.247	0.089	1.441	No
	Left		0.186			0.186	No
	Right	0.159		0.345	0.244	0.748	No
	Top	0.945	0.008	0.074	0.075	1.102	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 7	Rear	0.596	0.236	0.247	0.089	1.168	No
	Left		0.186			0.186	No
	Right	0.106		0.345	0.244	0.695	No
	Top	0.805	0.008	0.074	0.075	0.962	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 12	Rear	0.742	0.236	0.247	0.089	1.314	No
	Left		0.186			0.186	No
	Right	0.051		0.345	0.244	0.640	No
	Top	0.716	0.008	0.074	0.075	0.873	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 13	Rear	0.680	0.236	0.247	0.089	1.252	No
	Left		0.186			0.186	No
	Right	0.052		0.345	0.244	0.641	No
	Top	0.782	0.008	0.074	0.075	0.939	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.236	0.247	0.089	1.358	No
	Left		0.186			0.186	No
	Right	0.075		0.345	0.244	0.664	No
	Top	0.687	0.008	0.074	0.075	0.844	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 25	Rear	0.867	0.236	0.247	0.089	1.439	No
	Left		0.186			0.186	No
	Right	0.183		0.345	0.244	0.772	No
	Top	0.647	0.008	0.074	0.075	0.804	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 26	Rear	0.516	0.236	0.247	0.089	1.088	No
	Left		0.186			0.186	No
	Right	0.073		0.345	0.244	0.662	No
	Top	0.612	0.008	0.074	0.075	0.769	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 30	Rear	0.775	0.236	0.247	0.089	1.347	No
	Left		0.186			0.186	No
	Right	0.083		0.345	0.244	0.672	No
	Top	0.839	0.008	0.074	0.075	0.996	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 41	Rear	0.926	0.236	0.247	0.089	1.498	No
	Left		0.186			0.186	No
	Right	0.065		0.345	0.244	0.654	No
	Top	0.906	0.008	0.074	0.075	1.063	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 66	Rear	1.032	0.236	0.247	0.089	1.604	Yes
	Left		0.186			0.186	No
	Right	0.132		0.345	0.244	0.721	No
	Top	1.061	0.008	0.074	0.075	1.218	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
LTE Band 71	Rear	0.568	0.236	0.247	0.089	1.140	No
	Left		0.186			0.186	No
	Right	0.062		0.345	0.244	0.651	No
	Top	0.467	0.008	0.074	0.075	0.624	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.236	0.247	0.089	1.087	No
	Left		0.186			0.186	No
	Right	0.075		0.345	0.244	0.664	No
	Top	0.593	0.008	0.074	0.075	0.750	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
NR n25	Rear	1.040	0.236	0.247	0.089	1.612	Yes
	Left		0.186			0.186	No
	Right	0.063		0.345	0.244	0.652	No
	Top	0.977	0.008	0.074	0.075	1.134	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
NR n41	Rear	0.422	0.236	0.247	0.089	0.994	No
	Left		0.186			0.186	No
	Right			0.345	0.244	0.589	No
	Top	0.373	0.008	0.074	0.075	0.530	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
NR n66	Rear	1.033	0.236	0.247	0.089	1.605	Yes
	Left		0.186			0.186	No
	Right	0.126		0.345	0.244	0.715	No
	Top	0.951	0.008	0.074	0.075	1.108	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No
NR n71	Rear	0.302	0.236	0.247	0.089	0.874	No
	Left		0.186			0.186	No
	Right	0.029		0.345	0.244	0.618	No
	Top	0.410	0.008	0.074	0.075	0.567	No
	Left Corner		0.032			0.032	No
	Right Corner			0.197	0.066	0.263	No

14.14 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant1) WLAN and Bluetooth(chain0). (inactive) - RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.142	0.161	0.100	1.380	No
	Left	0.243	0.202			0.445	No
	Right	0.293		0.573	0.143	1.009	No
	Top	1.022	0.013	0.073	0.060	1.168	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
WCDMA Band 4	Rear	0.754	0.142	0.161	0.100	1.157	No
	Left	0.133	0.202			0.335	No
	Right	0.188		0.573	0.143	0.904	No
	Top	0.813	0.013	0.073	0.060	0.959	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
WCDMA Band 5	Rear	0.713	0.142	0.161	0.100	1.116	No
	Left	0.145	0.202			0.347	No
	Right	0.169		0.573	0.143	0.885	No
	Top	0.428	0.013	0.073	0.060	0.574	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 7	Rear	0.287	0.142	0.161	0.100	0.690	No
	Left	0.255	0.202			0.457	No
	Right	0.172		0.573	0.143	0.888	No
	Top	0.471	0.013	0.073	0.060	0.617	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 12	Rear	0.507	0.142	0.161	0.100	0.910	No
	Left	0.178	0.202			0.380	No
	Right	0.124		0.573	0.143	0.840	No
	Top	0.277	0.013	0.073	0.060	0.423	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 13	Rear	0.559	0.142	0.161	0.100	0.962	No
	Left	0.140	0.202			0.342	No
	Right	0.111		0.573	0.143	0.827	No
	Top	0.424	0.013	0.073	0.060	0.570	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.142	0.161	0.100	1.185	No
	Left	0.182	0.202			0.384	No
	Right	0.167		0.573	0.143	0.883	No
	Top	0.510	0.013	0.073	0.060	0.656	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 25	Rear	1.101	0.142	0.161	0.100	1.504	No
	Left	0.138	0.202			0.340	No
	Right	0.290		0.573	0.143	1.006	No
	Top	1.079	0.013	0.073	0.060	1.225	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 26	Rear	0.664	0.142	0.161	0.100	1.067	No
	Left	0.196	0.202			0.398	No
	Right	0.177		0.573	0.143	0.893	No
	Top	0.476	0.013	0.073	0.060	0.622	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 30	Rear	0.440	0.142	0.161	0.100	0.843	No
	Left	0.415	0.202			0.617	No
	Right	0.146		0.573	0.143	0.862	No
	Top	0.521	0.013	0.073	0.060	0.667	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 41	Rear	0.314	0.142	0.161	0.100	0.717	No
	Left	0.170	0.202			0.372	No
	Right	0.185		0.573	0.143	0.901	No
	Top	0.427	0.013	0.073	0.060	0.573	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 66	Rear	0.907	0.142	0.161	0.100	1.310	No
	Left	0.196	0.202			0.398	No
	Right	0.206		0.573	0.143	0.922	No
	Top	0.999	0.013	0.073	0.060	1.145	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
LTE Band 71	Rear	0.544	0.142	0.161	0.100	0.947	No
	Left	0.168	0.202			0.370	No
	Right	0.136		0.573	0.143	0.852	No
	Top	0.387	0.013	0.073	0.060	0.533	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.142	0.161	0.100	0.870	No
	Left	0.187	0.202			0.389	No
	Right	0.142		0.573	0.143	0.858	No
	Top	0.377	0.013	0.073	0.060	0.523	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
NR n25	Rear	0.707	0.142	0.161	0.100	1.110	No
	Left	0.123	0.202			0.325	No
	Right	0.133		0.573	0.143	0.849	No
	Top	0.690	0.013	0.073	0.060	0.836	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
NR n41	Rear	1.099	0.142	0.161	0.100	1.502	No
	Left	0.506	0.202			0.708	No
	Right	0.016		0.573	0.143	0.732	No
	Top	0.779	0.013	0.073	0.060	0.925	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
NR n66	Rear	0.566	0.142	0.161	0.100	0.969	No
	Left	0.093	0.202			0.295	No
	Right	0.074		0.573	0.143	0.790	No
	Top	0.439	0.013	0.073	0.060	0.585	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No
NR n71	Rear	0.356	0.142	0.161	0.100	0.759	No
	Left	0.166	0.202			0.368	No
	Right	0.079		0.573	0.143	0.795	No
	Top	0.211	0.013	0.073	0.060	0.357	No
	Left Corner		0.015			0.015	No
	Right Corner			0.171	0.056	0.227	No

14.15 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant2) WLAN and Bluetooth(chain0) . (active)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.404	0.368	0.089	1.700	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.197			0.244	0.441	No
	Top	0.618	0.017	0.089	0.075	0.799	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
WCDMA Band 4	Rear	0.975	0.404	0.368	0.089	1.836	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.115			0.244	0.359	No
	Top	0.941	0.017	0.089	0.075	1.122	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
WCDMA Band 5	Rear	0.869	0.404	0.368	0.089	1.730	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.159			0.244	0.403	No
	Top	0.945	0.017	0.089	0.075	1.126	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 7	Rear	0.596	0.404	0.368	0.089	1.457	No
	Left		0.253	0.374		0.627	No
	Right	0.106			0.244	0.350	No
	Top	0.805	0.017	0.089	0.075	0.986	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 12	Rear	0.742	0.404	0.368	0.089	1.603	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.051			0.244	0.295	No
	Top	0.716	0.017	0.089	0.075	0.897	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 13	Rear	0.680	0.404	0.368	0.089	1.541	No
	Left		0.253	0.374		0.627	No
	Right	0.052			0.244	0.296	No
	Top	0.782	0.017	0.089	0.075	0.963	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.404	0.368	0.089	1.647	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.075			0.244	0.319	No
	Top	0.687	0.017	0.089	0.075	0.868	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 25	Rear	0.867	0.404	0.368	0.089	1.728	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.183			0.244	0.427	No
	Top	0.647	0.017	0.089	0.075	0.828	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 26	Rear	0.516	0.404	0.368	0.089	1.377	No
	Left		0.253	0.374		0.627	No
	Right	0.073			0.244	0.317	No
	Top	0.612	0.017	0.089	0.075	0.793	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 30	Rear	0.775	0.404	0.368	0.089	1.636	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.083			0.244	0.327	No
	Top	0.839	0.017	0.089	0.075	1.020	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 41	Rear	0.926	0.404	0.368	0.089	1.787	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.065			0.244	0.309	No
	Top	0.906	0.017	0.089	0.075	1.087	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 66	Rear	1.032	0.404	0.368	0.089	1.893	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.132			0.244	0.376	No
	Top	1.061	0.017	0.089	0.075	1.242	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
LTE Band 71	Rear	0.568	0.404	0.368	0.089	1.429	No
	Left		0.253	0.374		0.627	No
	Right	0.062			0.244	0.306	No
	Top	0.467	0.017	0.089	0.075	0.648	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.404	0.368	0.089	1.376	No
	Left		0.253	0.374		0.627	No
	Right	0.075			0.244	0.319	No
	Top	0.593	0.017	0.089	0.075	0.774	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
NR n25	Rear	1.040	0.404	0.368	0.089	1.901	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.063			0.244	0.307	No
	Top	0.977	0.017	0.089	0.075	1.158	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
NR n41	Rear	0.422	0.404	0.368	0.089	1.283	No
	Left		0.253	0.374		0.627	No
	Right				0.244	0.244	No
	Top	0.373	0.017	0.089	0.075	0.554	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
NR n66	Rear	1.033	0.404	0.368	0.089	1.894	See the sec 14.17 Table
	Left		0.253	0.374		0.627	No
	Right	0.126			0.244	0.370	No
	Top	0.951	0.017	0.089	0.075	1.132	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No
NR n71	Rear	0.302	0.404	0.368	0.089	1.163	No
	Left		0.253	0.374		0.627	No
	Right	0.029			0.244	0.273	No
	Top	0.410	0.017	0.089	0.075	0.591	No
	Left Corner		0.036	0.129		0.165	No
	Right Corner				0.066	0.066	No

14.16 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant2) WLAN and Bluetooth(chain0). (inactive)

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.160	0.128	0.100	1.365	No
	Left	0.243	0.201	0.311		0.755	No
	Right	0.293			0.143	0.436	No
	Top	1.022	0.016	0.189	0.060	1.287	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
WCDMA Band 4	Rear	0.754	0.160	0.128	0.100	1.142	No
	Left	0.133	0.201	0.311		0.645	No
	Right	0.188			0.143	0.331	No
	Top	0.813	0.016	0.189	0.060	1.078	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
WCDMA Band 5	Rear	0.713	0.160	0.128	0.100	1.101	No
	Left	0.145	0.201	0.311		0.657	No
	Right	0.169			0.143	0.312	No
	Top	0.428	0.016	0.189	0.060	0.693	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 7	Rear	0.287	0.160	0.128	0.100	0.675	No
	Left	0.255	0.201	0.311		0.767	No
	Right	0.172			0.143	0.315	No
	Top	0.471	0.016	0.189	0.060	0.736	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 12	Rear	0.507	0.160	0.128	0.100	0.895	No
	Left	0.178	0.201	0.311		0.690	No
	Right	0.124			0.143	0.267	No
	Top	0.277	0.016	0.189	0.060	0.542	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 13	Rear	0.559	0.160	0.128	0.100	0.947	No
	Left	0.140	0.201	0.311		0.652	No
	Right	0.111			0.143	0.254	No
	Top	0.424	0.016	0.189	0.060	0.689	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.160	0.128	0.100	1.170	No
	Left	0.182	0.201	0.311		0.694	No
	Right	0.167			0.143	0.310	No
	Top	0.510	0.016	0.189	0.060	0.775	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 25	Rear	1.101	0.160	0.128	0.100	1.489	No
	Left	0.138	0.201	0.311		0.650	No
	Right	0.290			0.143	0.433	No
	Top	1.079	0.016	0.189	0.060	1.344	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 26	Rear	0.664	0.160	0.128	0.100	1.052	No
	Left	0.196	0.201	0.311		0.708	No
	Right	0.177			0.143	0.320	No
	Top	0.476	0.016	0.189	0.060	0.741	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 30	Rear	0.440	0.160	0.128	0.100	0.828	No
	Left	0.415	0.201	0.311		0.927	No
	Right	0.146			0.143	0.289	No
	Top	0.521	0.016	0.189	0.060	0.786	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 41	Rear	0.314	0.160	0.128	0.100	0.702	No
	Left	0.170	0.201	0.311		0.682	No
	Right	0.185			0.143	0.328	No
	Top	0.427	0.016	0.189	0.060	0.692	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 66	Rear	0.907	0.160	0.128	0.100	1.295	No
	Left	0.196	0.201	0.311		0.708	No
	Right	0.206			0.143	0.349	No
	Top	0.999	0.016	0.189	0.060	1.264	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
LTE Band 71	Rear	0.544	0.160	0.128	0.100	0.932	No
	Left	0.168	0.201	0.311		0.680	No
	Right	0.136			0.143	0.279	No
	Top	0.387	0.016	0.189	0.060	0.652	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.160	0.128	0.100	0.855	No
	Left	0.187	0.201	0.311		0.699	No
	Right	0.142			0.143	0.285	No
	Top	0.377	0.016	0.189	0.060	0.642	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
NR n25	Rear	0.707	0.160	0.128	0.100	1.095	No
	Left	0.123	0.201	0.311		0.635	No
	Right	0.133			0.143	0.276	No
	Top	0.690	0.016	0.189	0.060	0.955	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
NR n41	Rear	1.099	0.160	0.128	0.100	1.487	No
	Left	0.506	0.201	0.311		1.018	No
	Right	0.016			0.143	0.159	No
	Top	0.779	0.016	0.189	0.060	1.044	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
NR n66	Rear	0.566	0.160	0.128	0.100	0.954	No
	Left	0.093	0.201	0.311		0.605	No
	Right	0.074			0.143	0.217	No
	Top	0.439	0.016	0.189	0.060	0.704	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No
NR n71	Rear	0.356	0.160	0.128	0.100	0.744	No
	Left	0.166	0.201	0.311		0.678	No
	Right	0.079			0.143	0.222	No
	Top	0.211	0.016	0.189	0.060	0.476	No
	Left Corner		0.017	0.108		0.125	No
	Right Corner				0.056	0.056	No

14.17 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant2) WLAN and Bluetooth(chain0) .(active) -RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.839	0.236	0.300	0.089	1.464	No
	Left		0.186	0.300		0.486	No
	Right	0.197			0.244	0.441	No
	Top	0.618	0.008	0.052	0.075	0.753	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
WCDMA Band 4	Rear	0.975	0.236	0.300	0.089	1.600	Yes
	Left		0.186	0.300		0.486	No
	Right	0.115			0.244	0.359	No
	Top	0.941	0.008	0.052	0.075	1.076	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
WCDMA Band 5	Rear	0.869	0.236	0.300	0.089	1.494	No
	Left		0.186	0.300		0.486	No
	Right	0.159			0.244	0.403	No
	Top	0.945	0.008	0.052	0.075	1.080	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 7	Rear	0.596	0.236	0.300	0.089	1.221	No
	Left		0.186	0.300		0.486	No
	Right	0.106			0.244	0.350	No
	Top	0.805	0.008	0.052	0.075	0.940	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 12	Rear	0.742	0.236	0.300	0.089	1.367	No
	Left		0.186	0.300		0.486	No
	Right	0.051			0.244	0.295	No
	Top	0.716	0.008	0.052	0.075	0.851	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 13	Rear	0.680	0.236	0.300	0.089	1.305	No
	Left		0.186	0.300		0.486	No
	Right	0.052			0.244	0.296	No
	Top	0.782	0.008	0.052	0.075	0.917	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.786	0.236	0.300	0.089	1.411	No
	Left		0.186	0.300		0.486	No
	Right	0.075			0.244	0.319	No
	Top	0.687	0.008	0.052	0.075	0.822	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 25	Rear	0.867	0.236	0.300	0.089	1.492	No
	Left		0.186	0.300		0.486	No
	Right	0.183			0.244	0.427	No
	Top	0.647	0.008	0.052	0.075	0.782	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 26	Rear	0.516	0.236	0.300	0.089	1.141	No
	Left		0.186	0.300		0.486	No
	Right	0.073			0.244	0.317	No
	Top	0.612	0.008	0.052	0.075	0.747	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 30	Rear	0.775	0.236	0.300	0.089	1.400	No
	Left		0.186	0.300		0.486	No
	Right	0.083			0.244	0.327	No
	Top	0.839	0.008	0.052	0.075	0.974	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 41	Rear	0.926	0.236	0.300	0.089	1.551	No
	Left		0.186	0.300		0.486	No
	Right	0.065			0.244	0.309	No
	Top	0.906	0.008	0.052	0.075	1.041	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 66	Rear	1.032	0.236	0.300	0.089	1.657	Yes
	Left		0.186	0.300		0.486	No
	Right	0.132			0.244	0.376	No
	Top	1.061	0.008	0.052	0.075	1.196	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
LTE Band 71	Rear	0.568	0.236	0.300	0.089	1.193	No
	Left		0.186	0.300		0.486	No
	Right	0.062			0.244	0.306	No
	Top	0.467	0.008	0.052	0.075	0.602	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.515	0.236	0.300	0.089	1.140	No
	Left		0.186	0.300		0.486	No
	Right	0.075			0.244	0.319	No
	Top	0.593	0.008	0.052	0.075	0.728	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
NR n25	Rear	1.040	0.236	0.300	0.089	1.665	Yes
	Left		0.186	0.300		0.486	No
	Right	0.063			0.244	0.307	No
	Top	0.977	0.008	0.052	0.075	1.112	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
NR n41	Rear	0.422	0.236	0.300	0.089	1.047	No
	Left		0.186	0.300		0.486	No
	Right				0.244	0.244	No
	Top	0.373	0.008	0.052	0.075	0.508	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
NR n66	Rear	1.033	0.236	0.300	0.089	1.658	Yes
	Left		0.186	0.300		0.486	No
	Right	0.126			0.244	0.370	No
	Top	0.951	0.008	0.052	0.075	1.086	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No
NR n71	Rear	0.302	0.236	0.300	0.089	0.927	No
	Left		0.186	0.300		0.486	No
	Right	0.029			0.244	0.273	No
	Top	0.410	0.008	0.052	0.075	0.545	No
	Left Corner		0.032	0.300		0.332	No
	Right Corner				0.066	0.066	No

14.18 Simultaneous Transmission Scenario with 2.4GHz(chain1), 5GHz(Ant2) WLAN and Bluetooth(chain0). (inactive) - RSDB

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
WCDMA Band 2	Rear	0.977	0.142	0.092	0.100	1.311	No
	Left	0.243	0.202	0.239		0.684	No
	Right	0.293			0.143	0.436	No
	Top	1.022	0.013	0.141	0.060	1.236	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
WCDMA Band 4	Rear	0.754	0.142	0.092	0.100	1.088	No
	Left	0.133	0.202	0.239		0.574	No
	Right	0.188			0.143	0.331	No
	Top	0.813	0.013	0.141	0.060	1.027	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
WCDMA Band 5	Rear	0.713	0.142	0.092	0.100	1.047	No
	Left	0.145	0.202	0.239		0.586	No
	Right	0.169			0.143	0.312	No
	Top	0.428	0.013	0.141	0.060	0.642	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 7	Rear	0.287	0.142	0.092	0.100	0.621	No
	Left	0.255	0.202	0.239		0.696	No
	Right	0.172			0.143	0.315	No
	Top	0.471	0.013	0.141	0.060	0.685	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 12	Rear	0.507	0.142	0.092	0.100	0.841	No
	Left	0.178	0.202	0.239		0.619	No
	Right	0.124			0.143	0.267	No
	Top	0.277	0.013	0.141	0.060	0.491	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 13	Rear	0.559	0.142	0.092	0.100	0.893	No
	Left	0.140	0.202	0.239		0.581	No
	Right	0.111			0.143	0.254	No
	Top	0.424	0.013	0.141	0.060	0.638	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR (W/kg)	Volumetric Scanning SAR (Yes/No)
LTE Band 14	Rear	0.782	0.142	0.092	0.100	1.116	No
	Left	0.182	0.202	0.239		0.623	No
	Right	0.167			0.143	0.310	No
	Top	0.510	0.013	0.141	0.060	0.724	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 25	Rear	1.101	0.142	0.092	0.100	1.435	No
	Left	0.138	0.202	0.239		0.579	No
	Right	0.290			0.143	0.433	No
	Top	1.079	0.013	0.141	0.060	1.293	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 26	Rear	0.664	0.142	0.092	0.100	0.998	No
	Left	0.196	0.202	0.239		0.637	No
	Right	0.177			0.143	0.320	No
	Top	0.476	0.013	0.141	0.060	0.690	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 30	Rear	0.440	0.142	0.092	0.100	0.774	No
	Left	0.415	0.202	0.239		0.856	No
	Right	0.146			0.143	0.289	No
	Top	0.521	0.013	0.141	0.060	0.735	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 41	Rear	0.314	0.142	0.092	0.100	0.648	No
	Left	0.170	0.202	0.239		0.611	No
	Right	0.185			0.143	0.328	No
	Top	0.427	0.013	0.141	0.060	0.641	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 66	Rear	0.907	0.142	0.092	0.100	1.241	No
	Left	0.196	0.202	0.239		0.637	No
	Right	0.206			0.143	0.349	No
	Top	0.999	0.013	0.141	0.060	1.213	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
LTE Band 71	Rear	0.544	0.142	0.092	0.100	0.878	No
	Left	0.168	0.202	0.239		0.609	No
	Right	0.136			0.143	0.279	No
	Top	0.387	0.013	0.141	0.060	0.601	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No

Simultaneous Tx	Configurations	Main (W/kg)	2.4 GHz WLAN (W/kg)	5 GHz WLAN (W/kg)	Bluetooth (W/kg)	∑ 1-g SAR(W/kg)	Volumetric Scanning SAR (Yes/No)
NR n5	Rear	0.467	0.142	0.092	0.100	0.801	No
	Left	0.187	0.202	0.239		0.628	No
	Right	0.142			0.143	0.285	No
	Top	0.377	0.013	0.141	0.060	0.591	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
NR n25	Rear	0.707	0.142	0.092	0.100	1.041	No
	Left	0.123	0.202	0.239		0.564	No
	Right	0.133			0.143	0.276	No
	Top	0.690	0.013	0.141	0.060	0.904	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
NR n41	Rear	1.099	0.142	0.092	0.100	1.433	No
	Left	0.506	0.202	0.239		0.947	No
	Right	0.016			0.143	0.159	No
	Top	0.779	0.013	0.141	0.060	0.993	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
NR n66	Rear	0.566	0.142	0.092	0.100	0.900	No
	Left	0.093	0.202	0.239		0.534	No
	Right	0.074			0.143	0.217	No
	Top	0.439	0.013	0.141	0.060	0.653	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No
NR n71	Rear	0.356	0.142	0.092	0.100	0.690	No
	Left	0.166	0.202	0.239		0.607	No
	Right	0.079			0.143	0.222	No
	Top	0.211	0.013	0.141	0.060	0.425	No
	Left Corner		0.015	0.070		0.085	No
	Right Corner				0.056	0.056	No

When the antenna separation distance was >50 mm, an estimated SAR of 0.4 W/kg was used to determine the simultaneous transmission SAR exclusion for test positions exclude per FCC KDB Publication 447498D01v06

14.7.2 Volumetric Scanning SAR Evaluation

Per FCC KDB 865664 Sec 2.7.6. Simultaneous transmission SAR measurement
1) The measurement resolution of Area scan / Volume scan used for the highest frequency measurements to be applied to all volume scans

2) The volume scan measurement area is large enough to cover the entire Transmitters that can be transmitted simultaneously.

3) Each communication mode is performed volume scan separately.

4) All the enlarged zoom scans are processed, by means of superposition, using the volume scan post-processing procedures to determine the 1-g SAR for the aggregate SAR distribution.
5) The volume scan measurement result is scaled up to the highest scaled factor among the measured multi-band modes.

Main + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant1) + Bluetooth(chain0)

Volumetric Scanning SAR Test Case Plot # V1								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 745	132322	LTE Band 66	15.00	13.95	Rear	1.274		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 530	106	5 GHz WiFi - RSDB	7.0	6.59	Rear	1.099		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			15.00	13.95	Rear	1.274	0.669	0.852

Volumetric Scanning SAR Test Case Plot # V2								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 905	381000	NR Band n25	15.00	14.02	Rear	1.253		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 530	106	5 GHz WiFi - RSDB	7.0	6.59	Rear	1.099		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			7.00	5.996	Rear	1.260	0.962	1.212

Volumetric Scanning SAR Test Case Plot # V3								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 770	354000	NR Band n66	15.00	14.06	Rear	1.242		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 530	106	5 GHz WiFi - RSDB	7.0	6.59	Rear	1.099		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			7.00	5.996	Rear	1.260	0.854	1.076

Main + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant2) + Bluetooth(chain0)

Volumetric Scanning SAR Test Case Plot # V4								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 752.6	1513	WCDMA Band 4	14.50	13.82	Rear	1.169		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 290	58	5 GHz WiFi - RSDB	7.00	6.45	Rear	1.135		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			15.00	13.95	Rear	1.260	0.836	1.053

Volumetric Scanning SAR Test Case Plot # V5								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 745	132322	LTE Band 66	15.00	13.95	Rear	1.274		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 290	58	5 GHz WiFi - RSDB	7.00	6.45	Rear	1.135		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			15.00	13.95	Rear	1.274	0.669	0.852

Volumetric Scanning SAR Test Case Plot # V6								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 905	381000	NR Band n25	15.00	14.02	Rear	1.253		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 290	58	5 GHz WiFi - RSDB	7.00	6.45	Rear	1.135		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			7.00	5.996	Rear	1.260	0.963	1.213

Volumetric Scanning SAR Test Case Plot # V7								
Frequency		Mode	Tune-Up Limit (dBm)	Meas. Power (dBm)	Test Position	Scaling Factor	Meas. SAR (W/kg)	Reported SAR (W/kg)
MHz	Ch.							
1 770	354000	NR Band n66	15.00	14.06	Rear	1.242		
2 437	6	2.4GHz WiFi - RSDB	9.00	8.33	Rear	1.167		
5 290	58	5 GHz WiFi - RSDB	7.00	6.45	Rear	1.135		
2 480	78	Bluetooth	7.00	5.996	Rear	1.260		
Volumetric Scanning SAR			7.00	5.996	Rear	1.260	0.854	1.076

14.7.4 Simultaneous Transmission Conclusion

The above numerical summed SAR Results and volumetric measurement results for simultaneous transmission are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit.

15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 ㎒ to 6 ㎓, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.

2) When the original highest measured 1g SAR is ≥ 0.80 W/kg or 10g SAR ≥ 2.0W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg for 1g SAR or ≥ 3.625 W/kg for 10g SAR (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg for 1g SAR or ≥3.75 W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

SAR measurement variability Results

Frequency		Mode/Band	Configuration	Measured SAR	Repeated SAR	SAR Ratio
㎒	Channel			(W/kg)	(W/kg)	
1 752.6	1513	UMTS 1700	Rear	0.814	0.834	1.02
1 745	132322	LTE Band 66	Top	0.856	0.863	1.01
1882.5	26365	LTE Band 25	Rear	0.897	0.874	1.03
2592.99	518598	NR Band 41	Rear	0.873	0.856	1.02

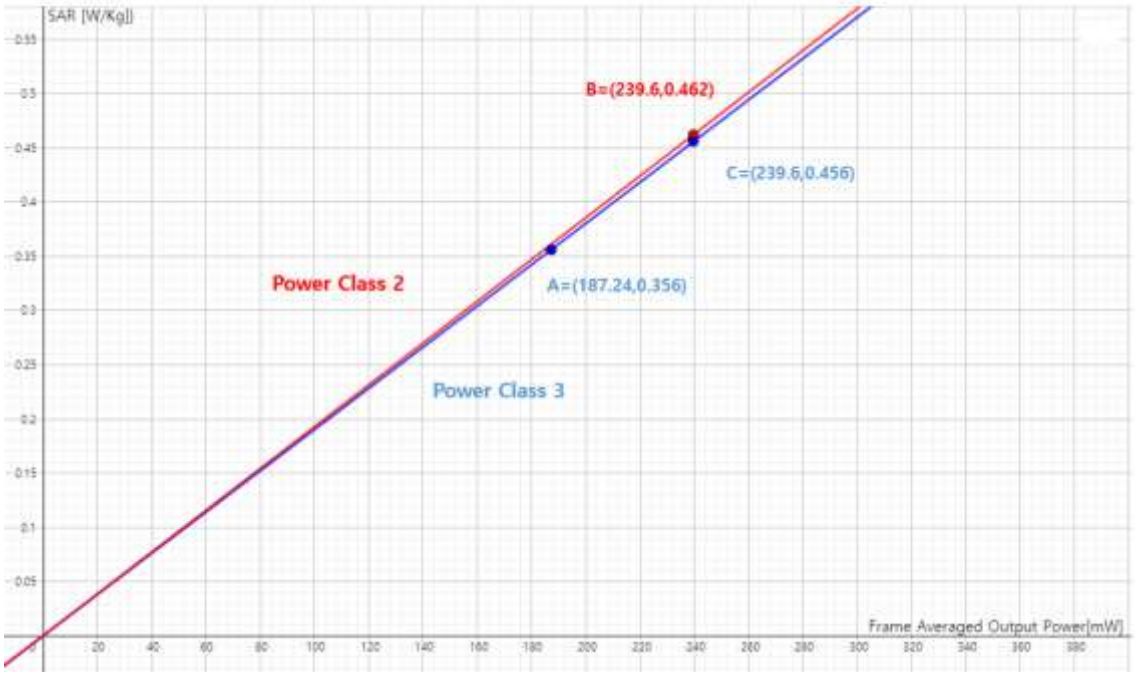
16. LTE Band 41 Power Class 2 and Power class 3 Linearity

This Device Supports Power Class 2 and Power Class 3 operations for LTE band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg

LTE Band 41 Body Rear Linearity Data Table (Sensor inactive)		
Configurations	LTE Band41 PC3	LTE Band41 PC2
Maximum Allowed Output Power[dBm]	25.00	28.00
Measured Output Power[dBm]	24.71	27.43
Measured SAR[W/kg]	0.356	0.462
Measured Power[mW]	295.801	553.35
Duty Cycle	63.30%	43.30%
Frame Averaged Output Power[mW]	187.24	239.6
deviation from expected linearity(%)		-1.39%



17. Dynamic Antenna tuner testing

This Device applies Qualcomm chipset solution's Dynamic Antenna tuning technology to some 3G / 4G bands. Dynamic Antenna tuning was tested in accordance with the April 2019 FCC TCBC Workshop nots.

Per 2019, April TCBC Workshop document

- 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.
- Additional single point SAR (time-sweep) measurements were evaluated for other tuner states to determine that the other configurations would result in equivalent or lower SAR values.
- 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
- Total number tuner states divided evenly among each supported band /air interface and exposure condition combination
  if any single point SAR measurement result is > 1.2 W/kg for a band/exposure condition combination set, all supported tuner states are evaluated with single point SAR measurements for the combination.
  Tuner state is established remotely so that the device is not moved for the entire series of single point SAR measurements for the tuner states in each combination

To evaluate all the tuner states, the 120 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination

The following test procedures were followed to demonstrate that the SAR results in Section 13 represented the appropriate SAR test conditions. For bands with Antenna Impedance tunner implemented, SAR was measured according to the required FCC SAR test procedures with the Antenna Impedance tuning active to allow the device to automatically to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other impedance matching.

This Device supports LTE capabilities with overlapping transmission frequency ranges.
LTE Band 4 (1 710.7 MHz ~ 1 754.3 MHz) is covered by LTE Band 66 (1 710.7 MHz ~ 1 779.3 MHz)
LTE Band 5(824.7 MHz ~ 848.3 MHz) is covered by LTE Band 26 (814.7 MHz ~ 848.3 MHz)
LTE Band 2 (1 850.7 MHz ~ 1 909.3 MHz) is covered by LTE Band 25 (1 850.7 MHz ~ 1 914.3 MHz)
NR Band n2(1 852.5 MHz ~ 1 907.5 MHz) is covered by NR Band n25 (1852.5 MHz ~ 1912.5 MHz)

WCDMA B5		WCDMA B4		WCDMA B2	
Grip sensor Backoff		Grip sensor Backoff		Max	
Test Position	Back	Test Position	Back	Test Position	Top
Spacing	0mm	Spacing	0mm	Spacing	23mm
Frequency (MHz)	826.4	Frequency (MHz)	1752.6	Frequency (MHz)	1880
Channel	4132	Channel	1513	Channel	9400
Measured 1g SAR (W/kg)	0.781	Measured 1g SAR (W/kg)	0.834	Measured 1g SAR (W/kg)	0.829
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-Tune(32)	0.835	Auto-Tune(0)	0.977	Auto-Tune(48)	0.907
0 (Default)	0.600	0 (Default)	0.977	0 (Default)	0.3
1	0.544	2	0.911	3	0.541
18	0.309	19	0.057	20	0.01
35	0.082	36	0.722	37	0.905
52	0.428	53	0.058	54	0.018
69	0.612	70	0.091	71	0.011
86	0.044	87	0.737	88	0.885
103	0.603	104	0.971	105	0.308

LTE B71		LTE B12		LTE B13	
Grip sensor Backoff		Grip sensor Backoff		Grip sensor Backoff	
Test Position	Back	Test Position	Back	Test Position	Top
Spacing	0mm	Spacing	0mm	Spacing	0mm
Frequency (MHz)	683	Frequency (MHz)	707.5	Frequency (MHz)	782
Channel	133322	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.442	Measured 1g SAR (W/kg)	0.569	Measured 1g SAR (W/kg)	0.658
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-Tune(40)	0.536	Auto-Tune(28)	0.662	Auto-Tune(4)	0.838
0 (Default)	0.219	0 (Default)	0.531	0 (Default)	0.61
4	0.136	5	0.457	6	0.49
21	0.021	22	0.371	23	0.084
38	0.536	39	0.551	40	0.582
55	0.078	56	0.342	57	0.249
72	0.049	73	0.254	74	0.111
89	0.012	90	0.242	91	0.156
106	0.149	107	0.29	108	0.438

LTE B14		LTE B5/26		LTE B4/66	
Grip sensor Backoff		Max		Grip sensor Backoff	
Test Position	Back	Test Position	Back	Test Position	Top
Spacing	0mm	Spacing	17mm	Spacing	0mm
Frequency (MHz)	793	Frequency (MHz)	831.5	Frequency (MHz)	1745
Channel	23330	Channel	26865	Channel	132322
Measured 1g SAR (W/kg)	0.636	Measured 1g SAR (W/kg)	0.498	Measured 1g SAR (W/kg)	0.833
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-Tune(68)	0.784	Auto-Tune(32)	0.599	Auto-Tune(8)	0.993
0 (Default)	0.479	0 (Default)	0.028	0 (Default)	0.621
7	0.139	8	0.156	9	0.903
24	0.105	25	0.143	26	0.317
41	0.296	42	0.376	43	0.628
58	0.26	59	0.183	60	0.153
75	0.15	76	0.171	77	0.02
92	0.164	93	0.178	94	0.031
109	0.224	110	0.356	111	0.385

LTE B2/25		LTE B30		LTE B7	
Max		Grip sensor Backoff		Grip sensor Backoff	
Test Position	Back	Test Position	Top	Test Position	Top
Spacing	17mm	Spacing	0mm	Spacing	0mm
Frequency (MHz)	1882.5	Frequency (MHz)	2310	Frequency (MHz)	2535
Channel	26365	Channel	27710	Channel	21100
Measured 1g SAR (W/kg)	0.897	Measured 1g SAR (W/kg)	0.690	Measured 1g SAR (W/kg)	0.647
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-Tune(88)	1.19	Auto-Tune(4)	0.785	Auto-Tune(28)	0.802
0 (Default)	0.413	0 (Default)	0.655	0 (Default)	0.61
10	0.304	11	0.504	12	0.504
27	0.475	28	0.562	29	0.799
44	0.617	45	0.638	46	0.583
61	0.011	62	0.033	63	0.011
78	0.462	79	0.483	80	0.769
95	0.031	96	0.021	97	0.007
112	0.746	113	0.654	114	0.68

LTE B41(PC3)		NR n5		NR n2/25	
Grip sensor Backoff		Grip sensor Backoff		Grip sensor Backoff	
Test Position	Top	Test Position	Top	Test Position	Back
Spacing	0mm	Spacing	0mm	Spacing	0mm
Frequency (MHz)	2593	Frequency (MHz)	836.5	Frequency (MHz)	1905
Channel	40620	Channel	167300	Channel	381000
Measured 1g SAR (W/kg)	0.78	Measured 1g SAR (W/kg)	0.559	Measured 1g SAR (W/kg)	0.883
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-tune(28)	0.904	Auto-tune(4)	0.726	Auto-tune(48)	1.01
0 (Default)	0.662	0 (Default)	0.572	0 (Default)	0.72
13	0.515	14	0.201	15	0.024
30	0.836	31	0.424	32	0.669
47	0.445	48	0.491	49	0.987
64	0.078	65	0.211	66	0.053
81	0.635	82	0.32	83	0.583
98	0.012	99	0.017	100	0.009
115	0.119	116	0.433	117	0.018

NR n41		NR n66		NR n71	
Max		Grip sensor Backoff		Grip sensor Backoff	
Test Position	Rear	Test Position	Back	Test Position	Top
Spacing	4mm	Spacing	0mm	Spacing	0mm
Frequency (MHz)	2592.99	Frequency (MHz)	1720	Frequency (MHz)	680.5
Channel	518598	Channel	344000	Channel	136100
Measured 1g SAR (W/kg)	0.873	Measured 1g SAR (W/kg)	0.847	Measured 1g SAR (W/kg)	0.473
Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)		Average Value of time Sweep (W/kg)	
Auto-tune(12)	1.03	Auto-tune(0)	1.06	Auto-tune(44)	0.535
0 (Default)	0.95	0 (Default)	1.06	0 (Default)	0.482
16	0.94	17	0.099	18	0.501
33	0.918	34	0.698	35	0.008
50	0.924	51	0.066	52	0.223
67	0.928	68	0.102	69	0.077
84	0.94	85	0.955	86	0.165
101	0.913	102	1.01	103	0.479
118	0.914	119	0.067	120	0.231

18. Measurement Uncertainty

The measured SAR was <1.5 W/Kg for 1g SAR and <3.75 W/Kg For 10g SAR for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04,the extended measurement uncertainty analysis per IEEE1528-2013 was not required.

19. SAR Test Equipment

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
SPEAG	Triple Modular Phantom	-	N/A	N/A	N/A
SPEAG	SAM Phantom	-	N/A	N/A	N/A
HP	SAR System Control PC	-	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F01/ 5K08A1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F12/ 5K9GA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59CHA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F17/ 59RAA1/ C/ 01	N/A	N/A	N/A
Staubli	CS8Cspeag-TX90	F11/5K3RA1/C/01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F01/ 5K08A1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F12/ 5K9GA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59CHA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F17/ 59RAA1/ A/ 01	N/A	N/A	N/A
Staubli	TX90 XLspeag	F11/5K3RA1/A/01	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	01.13P 00679	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1206 0513	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	010963	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	011578	N/A	N/A	N/A
Staubli	Teach Pendant (Joystick)	S-1203 0309	N/A	N/A	N/A
SPEAG	DAE4	1417	02/26/2020	Annual	02/26/2021
SPEAG	DAE4	466	04/22/2020	Annual	04/22/2021
SPEAG	DAE4	869	09/19/2019	Annual	09/19/2020
SPEAG	DAE4	868	09/04/2019	Annual	09/04/2020
SPEAG	DAE4	648	05/25/2020	Annual	05/25/2021
SPEAG	E-Field Probe EX3DV4	3903	03/25/2020	Annual	03/25/2021
SPEAG	E-Field Probe EX3DV4	3968	09/27/2019	Annual	09/27/2020
SPEAG	E-Field Probe ES3DV3	3076	07/23/2019	Annual	07/23/2020
SPEAG	E-Field Probe ET3DV6	1630	02/26/2020	Annual	02/26/2021
SPEAG	E-Field Probe EX3DV4	7370	08/29/2019	Annual	08/29/2020
SPEAG	Dipole D750V3	1014	05/19/2020	Annual	05/19/2021
SPEAG	Dipole D835V2	441	08/23/2019	Annual	08/23/2020
SPEAG	Dipole D1800V2	2d015	09/19/2019	Annual	09/19/2020
SPEAG	Dipole D1900V2	5d061	01/21/2020	Annual	01/21/2021
SPEAG	Dipole D2300V2	1010	08/26/2019	Annual	08/26/2020
SPEAG	Dipole D2450V2	743	02/20/2020	Annual	02/20/2021
SPEAG	Dipole D2600V2	1106	09/19/2019	Annual	09/19/2020
SPEAG	Dipole D5GHzV2	1107	09/26/2019	Annual	09/26/2020
Agilent	Power Meter E4419B	MY41291386	10/07/2019	Annual	10/07/2020
Agilent	Power Meter N1911A	MY45101406	09/10/2019	Annual	09/10/2020
Agilent	Power Sensor 8481A	SG1091286	10/07/2019	Annual	10/07/2020
Agilent	Power Sensor 8481A	MY41090873	10/07/2019	Annual	10/07/2020
Agilent	Power Sensor N1921A	MY55220026	09/06/2019	Annual	09/06/2020
SPEAG	DAKS 3.5	1038	03/24/2020	Annual	03/24/2021
H.P	Network Analyzer /8753ES	JP39240221	01/28/2020	Annual	01/28/2021
Agilent	WIRELESS COMMUNICATION E5515C	MY48361100	10/07/2019	Annual	10/07/2020
Agilent	WIRELESS COMMUNICATION E5515C	MY48360252	08/07/2019	Annual	08/07/2020
Agilent	WIRELESS COMMUNICATION E5515C	GB44051865	06/04/2019	Annual	06/04/2020
Agilent	WIRELESS COMMUNICATION E5515C	GB44051865	06/01/2020	Annual	06/01/2021

Manufacturer	Type / Model	S/N	Calib. Date	Calib.Interval	Calib.Due
Agilent	Signal Generator N5182A	MY47070230	05/06/2020	Annual	05/06/2021
Agilent	11636B/Power Divider	58698	02/28/2020	Annual	02/28/2021
TESTO	175-H1/Thermometer	40331936309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331939309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331915309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331922309	01/29/2020	Annual	01/29/2021
TESTO	175-H1/Thermometer	40331949309	01/29/2020	Annual	01/29/2021
EMPOWER	RF Power Amplifier	1084	07/23/2019	Annual	07/23/2020
EMPOWER	RF Power Amplifier	1011	10/08/2019	Annual	10/08/2020
MICRO LAB	LP Filter / LA-15N	10453	10/07/2019	Annual	10/07/2020
MICRO LAB	LP Filter / LA-30N	-	10/07/2019	Annual	10/07/2020
MICRO LAB	LP Filter / LA-60N	32011	10/07/2019	Annual	10/07/2020
Agilent	Attenuator (3dB) 8693B	MY39260298	09/18/2019	Annual	09/18/2020
HP	Attenuator (20dB) 8493C	09271	09/18/2019	Annual	09/18/2020
Agilent	Directional Bridge	3140A03878	06/12/2019	Annual	06/12/2020
Agilent	Directional Bridge	3140A03878	06/08/2020	Annual	06/08/2021
Agilent	MXA Signal Analyzer N9020A	MY50510407	10/29/2019	Annual	10/29/2020
HP	Dual Directional Coupler	16072	10/07/2019	Annual	10/07/2020
Anritsu	Radio Communication Tester MT8820C	6201074225	03/02/2020	Annual	03/02/2021
Anritsu	Radio Communication Tester MT8820C	6200695605	05/06/2020	Annual	05/06/2021
Anritsu	Radio Communication Tester MT8820C	6200628628	09/20/2019	Annual	09/20/2020
Anritsu	Radio Communication Tester MT8821C	6201502997	08/09/2019	Annual	08/09/2020
Anritsu	Radio Communication Tester MT8821C	6262044720	01/06/2020	Annual	01/06/2021
Anritsu	Radio Communication Tester MT8821C	6201588559	02/11/2020	Annual	02/11/2021
Anritsu	Radio Communication Tester MT8821C	6261849028	03/03/2020	Annual	03/03/2021
Anritsu	Radio Communication Test Station MT8000A	6262036812	01/06/2020	Annual	01/06/2021
Keysight	UXM 5G Wireless Test Set E7515B	MY60102101	05/29/2020	Annual	05/29/2021
R&S	Bluetooth CBT	100272	03/02/2020	Annual	03/02/2021

1. The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

20. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the abortion and distribution of electromagnetic energy in the body are very complex phenomena the depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

21. References

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Appendix

Please refer to test setup photo file no. as follows.

Appendix A. DUT Ant. Information & Test SETUP PHOTO
Appendix B. SAR Test Plots
Appendix C. Dipole Verification Plots
Appendix D. SAR Tissue Characterization
Appendix E. SAR System Validation
Appendix F. Probe Calibration Data
Appendix G. Dipole Calibration Data
Appendix H. Power reduction verification

Appendix B. – SAR Test Plots

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.8 ℃
Ambient Temperature:	22.0 ℃
Test Date:	06/04/2020
Plot No.:	1

DUT: SM-T878U; Type: Bar

Communication System: UID 0, WCDMA850 (0); Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 826.4 MHz; σ = 0.933 S/m; ε_r = 42.89; ρ = 1000 kg/m^3
Phantom section: Flat Section

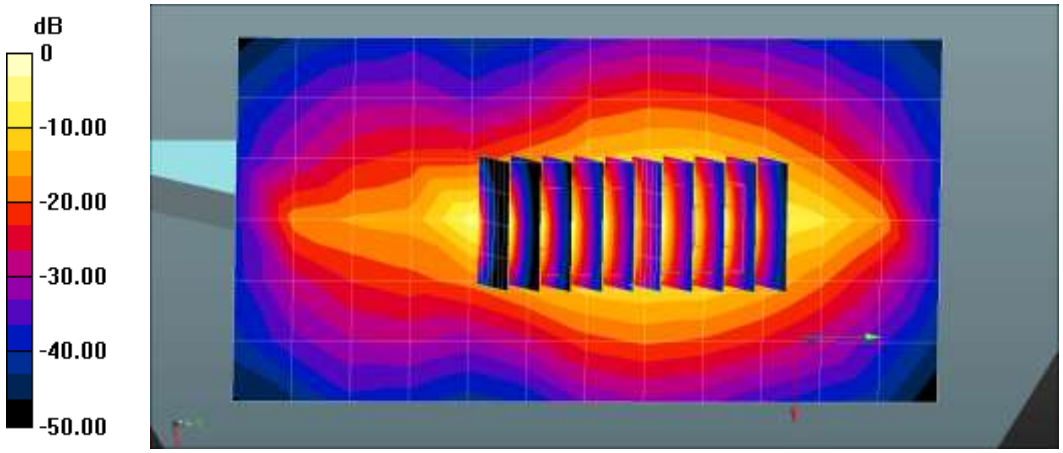
DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22) @ 826.4 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

SM-T878U/WCDMA B5 Body Top 4132ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.23 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.68 W/kg
SAR(1 g) = 0.766 W/kg; SAR(10 g) = 0.327 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

SM-T878U/WCDMA B5 Body Top 4132ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 33.23 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.13 W/kg
SAR(1 g) = 0.781 W/kg; SAR(10 g) = 0.367 W/kg
Maximum value of SAR (measured) = 1.14 W/kg

SM-T878U/WCDMA B5 Body Top 4132ch/Area Scan (61x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.20 W/kg



0 dB = 1.20 W/kg = 0.79 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.7 ℃
Test Date:	06/05/2020
Plot No.:	2

DUT: SM-T878U; Type: Bar;

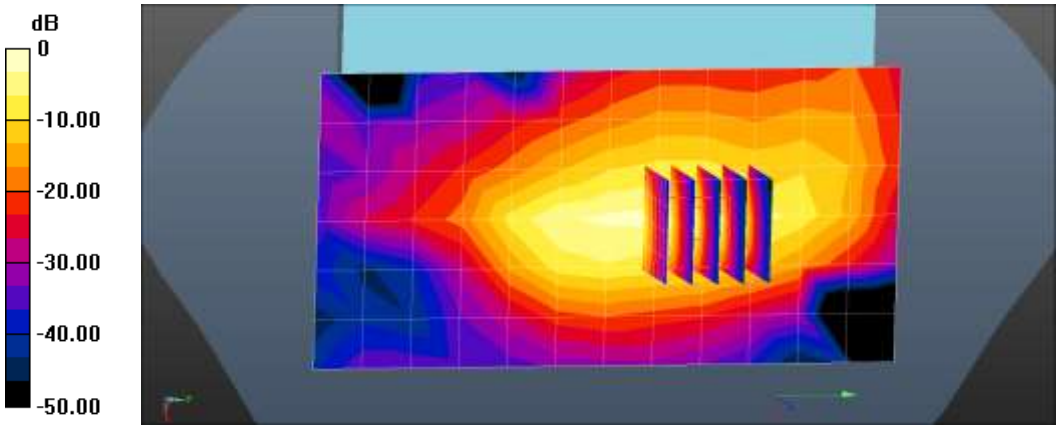
Communication System: UID 0, WCDMA IV (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.337 S/m; ε_r = 40.108; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34) @ 1752.6 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B4 Body Rear 1513ch/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.30 W/kg

WCDMA B4 Body Rear 1513ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.47 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.43 W/kg
SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.339 W/kg
Smallest distance from peaks to all points 3 dB below = 5.8 mm
Ratio of SAR at M2 to SAR at M1 = 34.8%



0 dB = 1.30 W/kg = 1.13 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.7 ℃
Test Date:	06/05/2020
Plot No.:	3

DUT: SM-T878U; Type: Bar;

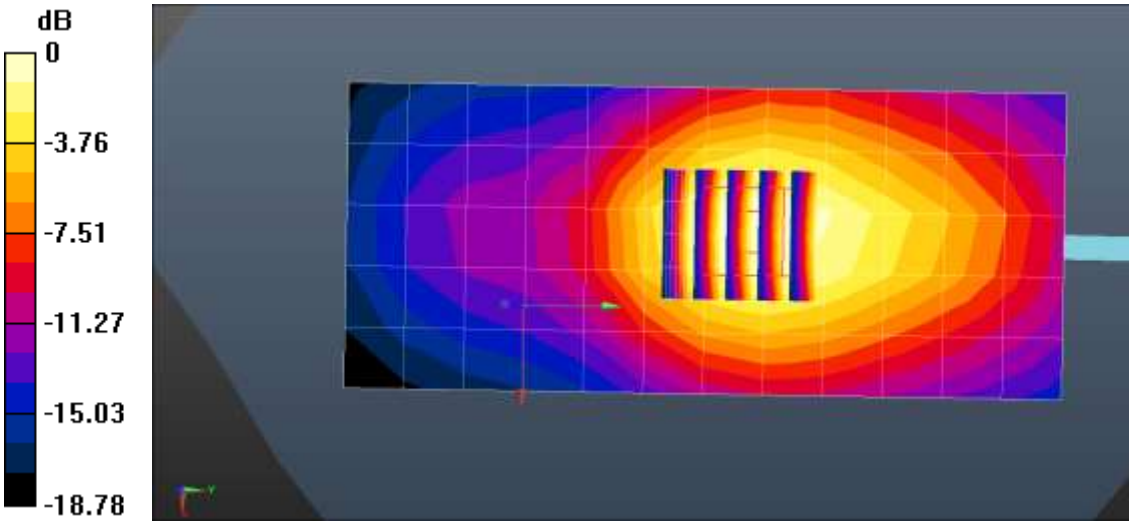
Communication System: UID 0, WCDMA1900 (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.371 S/m; ε_r = 39.311; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1) @ 1880 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

WCDMA B2 Body Top 9400ch/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.919 W/kg

WCDMA B2 Body Top 9400ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.30 W/kg
SAR(1 g) = 0.829 W/kg; SAR(10 g) = 0.500 W/kg
Smallest distance from peaks to all points 3 dB below = 17.9 mm
Ratio of SAR at M2 to SAR at M1 = 63%
Maximum value of SAR (measured) = 0.992 W/kg



0 dB = 0.919 W/kg = -0.37 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.4 ℃
Test Date:	07/07/2020
Plot No.:	4

DUT: SM-T878U; Type: Bar

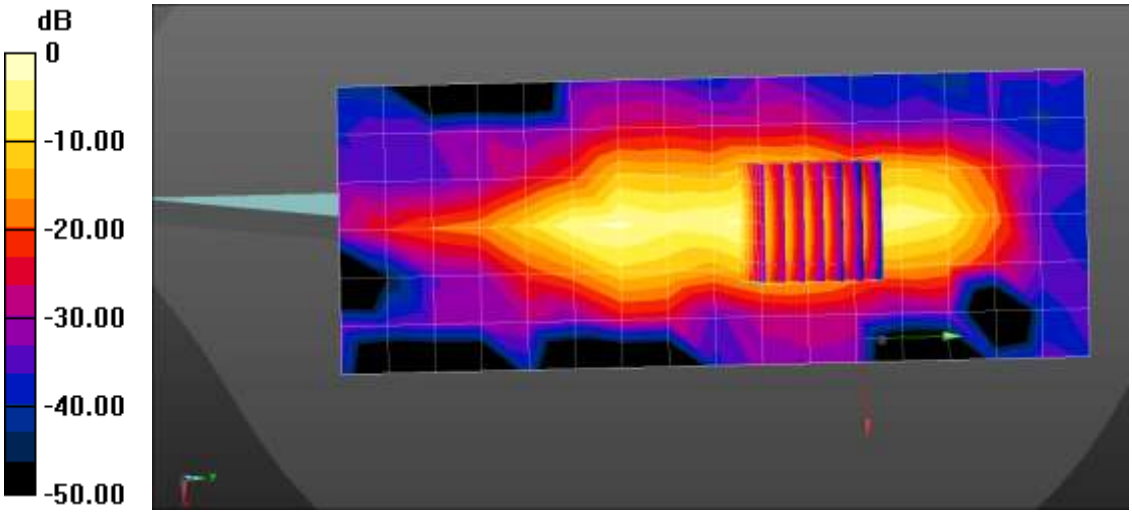
Communication System: UID 0, LTE Band7 (0); Frequency: 2535 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2535 MHz; σ = 1.886 S/m; ε_r = 38.167; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.41, 7.41, 7.41) @ 2535 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 7 Body Top QPSK 20MHz 50RB 25offset 21100ch/Area Scan (7x17x1):
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.62 W/kg

LTE Band 7 Body Top QPSK 20MHz 50RB 25offset 21100ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 16.97 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.94 W/kg
SAR(1 g) = 0.647 W/kg; SAR(10 g) = 0.224 W/kg
Smallest distance from peaks to all points 3 dB below = 4.1 mm
Ratio of SAR at M2 to SAR at M1 = 20.4%
Maximum value of SAR (measured) = 1.81 W/kg



0 dB = 1.62 W/kg = 2.08 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.8 ℃
Ambient Temperature:	21.0 ℃
Test Date:	06/17/2020
Plot No.:	5

DUT: SM-T878U; Type: Bar;

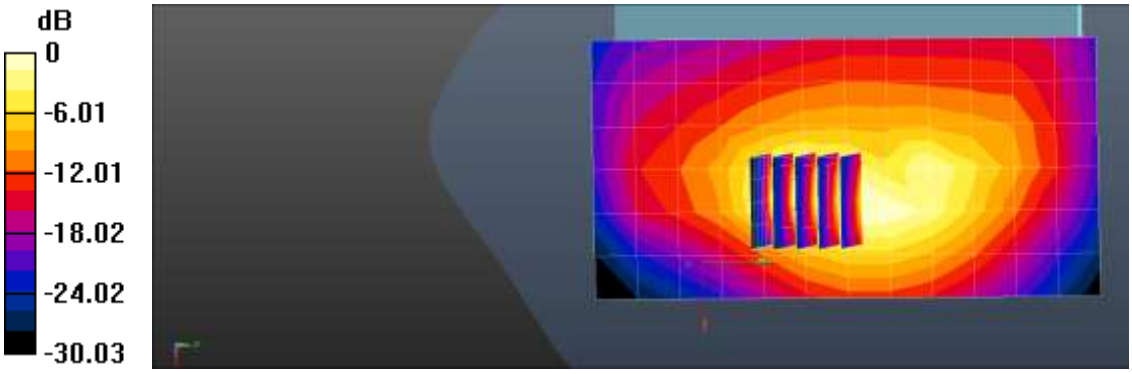
Communication System: UID 0, LTE Band 12 (0); Frequency: 707.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.859 S/m; ε_r = 42.56; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52) @ 707.5 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 12 Body Rear QPSK 10MHz 25RB 0offset 23095ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.337 W/kg

LTE Band 12 Body Rear QPSK 10MHz 25RB 0offset 23095ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.53 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 2.39 W/kg
SAR(1 g) = 0.569 W/kg; SAR(10 g) = 0.216 W/kg
Smallest distance from peaks to all points 3 dB below = 5.8 mm
Ratio of SAR at M2 to SAR at M1 = 27.2%
Maximum value of SAR (measured) = 0.886 W/kg



0 dB = 0.337 W/kg = -4.73 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/03/2020
Plot No.:	6

DUT: SM-T878U; Type: Bar;

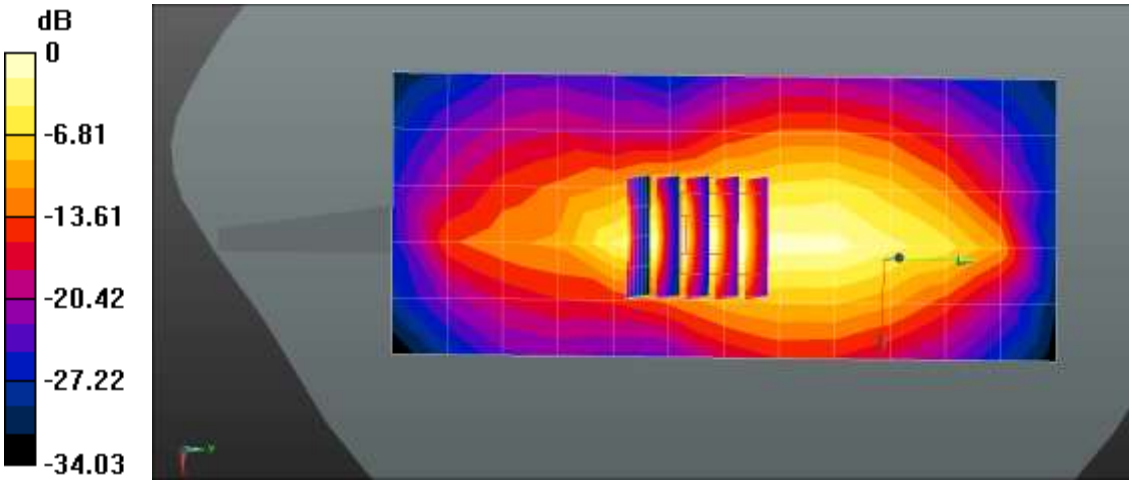
Communication System: UID 0, LTE Band 13 (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 782 MHz; σ = 0.925 S/m; ε_r = 41.578; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52) @ 782 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 13 Body Top QPSK 10MHz 25RB 24offset 23230ch/Area Scan (6x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.832 W/kg

LTE Band 13 Body Top QPSK 10MHz 25RB 24offset 23230ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.31 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.658 W/kg; SAR(10 g) = 0.280 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 33.9%
Maximum value of SAR (measured) = 1.02 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.4 ℃
Ambient Temperature:	20.8 ℃
Test Date:	06/19/2020
Plot No.:	7

DUT: SM-T878U; Type: Bar;
Procedure Name: LTE Band 14 Body Rear QPSK 10MHz 25RB 12offset 23330ch

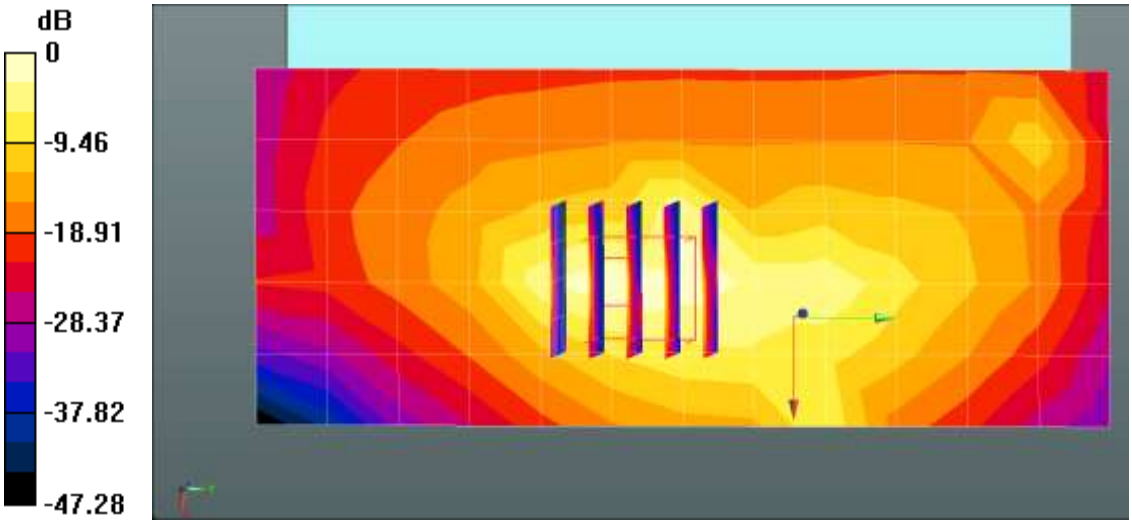
Communication System: UID 0, LTE Band 14 (0); Frequency: 793 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 793 MHz; σ = 0.907 S/m; ε_r = 42.459; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52) @ 793 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 14 Body Rear QPSK 10MHz 25RB 12offset 23330ch/Area Scan (6x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.05 W/kg

LTE Band 14 Body Rear QPSK 10MHz 25RB 12offset 23330ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.97 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 2.80 W/kg
SAR(1 g) = 0.636 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 1.05 W/kg



0 dB = 1.05 W/kg = 0.21 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.5 ℃
Test Date:	06/12/2020
Plot No.:	8

DUT: SM-T878U; Type: Bar;

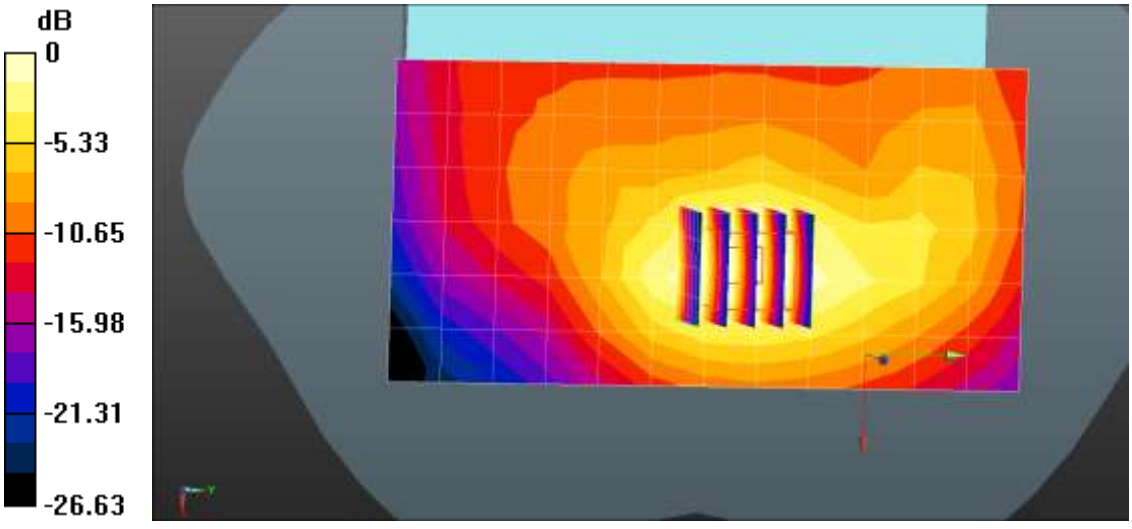
Communication System: UID 0, LTE Band 25 (0); Frequency: 1882.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.449 S/m; ε_r = 39.438; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1) @ 1882.5 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 25 Body Rear QPSK 20MHz 1RB 0offset 26365ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.983 W/kg

LTE Band 25 Body Rear QPSK 20MHz 1RB 0offset 26365ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.50 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 1.43 W/kg
SAR(1 g) = 0.897 W/kg; SAR(10 g) = 0.529 W/kg
Smallest distance from peaks to all points 3 dB below = 14.8 mm
Ratio of SAR at M2 to SAR at M1 = 62%
Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 0.983 W/kg = -0.08 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/03/2020
Plot No.:	9

DUT: SM-T878U; Type: Bar;

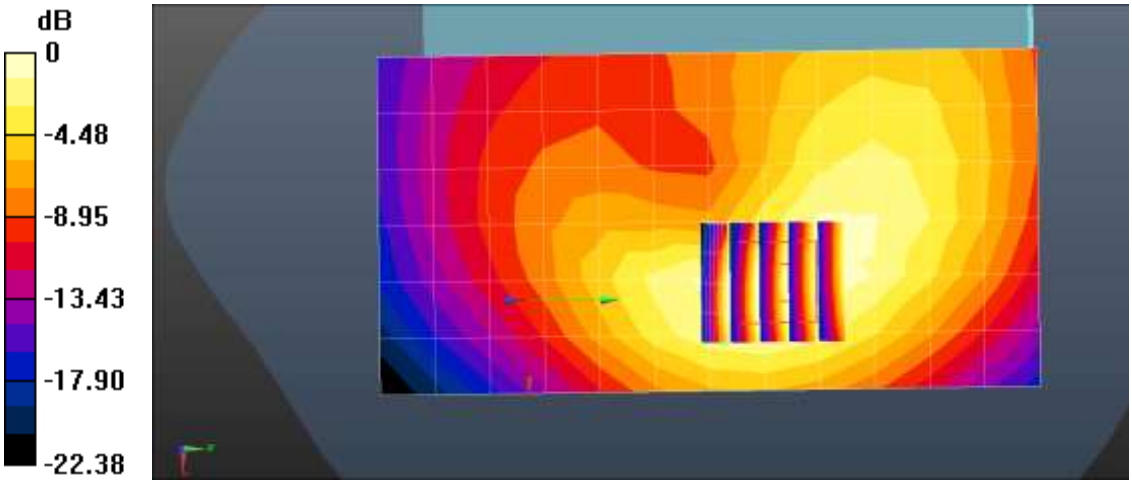
Communication System: UID 0, LTE Band 26 (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.937 S/m; ε_r = 42.782; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22) @ 831.5 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.561 W/kg

LTE Band 26 Body Rear QPSK 15MHz 1RB 0offset 26865ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.38 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.754 W/kg
SAR(1 g) = 0.498 W/kg; SAR(10 g) = 0.322 W/kg
Smallest distance from peaks to all points 3 dB below = 15.1 mm
Ratio of SAR at M2 to SAR at M1 = 66%
Maximum value of SAR (measured) = 0.587 W/kg



0 dB = 0.561 W/kg = -2.51 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.9 ℃
Ambient Temperature:	21.2 ℃
Test Date:	06/18/2020
Plot No.:	10

DUT: SM-T878U; Type: Bar

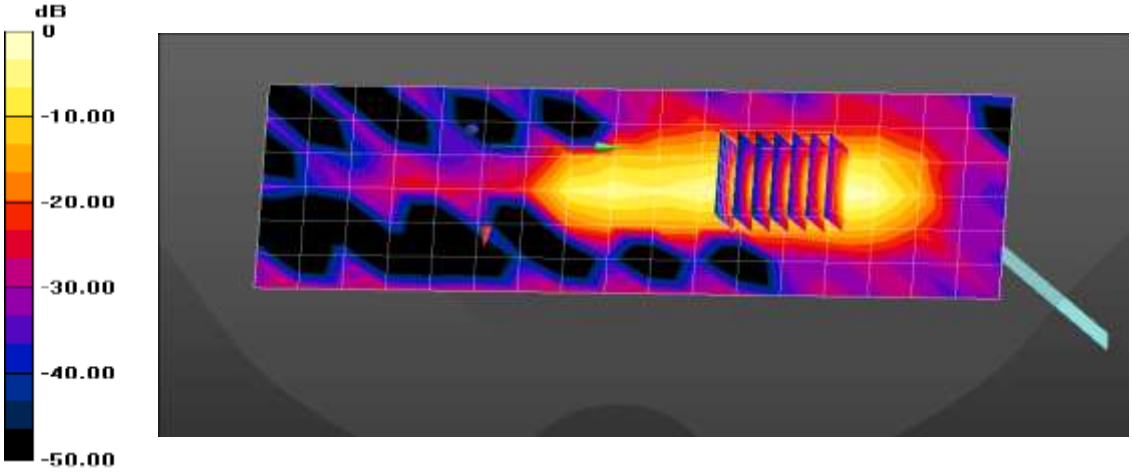
Communication System: UID 0, LTE Band 30 (0); Frequency: 2310 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2310 MHz; σ = 1.65 S/m; ε_r = 39.953; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.91, 7.91, 7.91) @ 2310 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 9/19/2019
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band30 Body Top QPSK 10MHz 25RB 12offset 27710ch/Area Scan (7x18x1):
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.50 W/kg

LTE Band30 Body Top QPSK 10MHz 25RB 12offset 27710ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 17.52 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 2.56 W/kg
SAR(1 g) = 0.690 W/kg; SAR(10 g) = 0.274 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 26.5%
Maximum value of SAR (measured) = 1.72 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.8 ℃
Ambient Temperature:	20.1 ℃
Test Date:	07/08/2020
Plot No.:	11

DUT: SM-T878U; Type: Bar

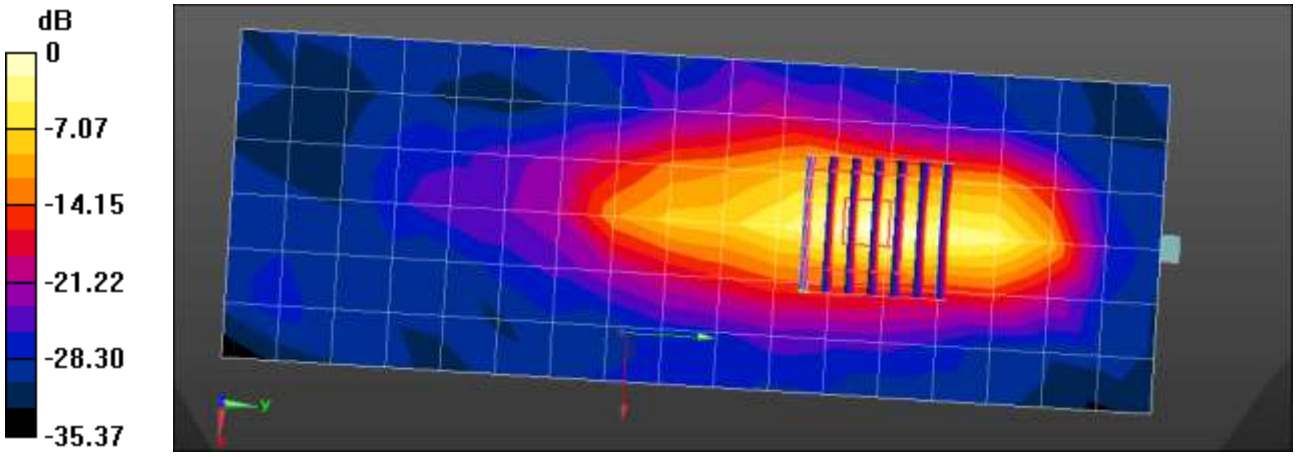
Communication System: UID 0, LTE Band41 (0); Frequency: 2593 MHz;Duty Cycle: 1:1.58016
Medium parameters used (interpolated): f = 2593 MHz; σ = 1.938 S/m; ε_r = 37.854; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.49, 7.49, 7.49) @ 2593 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 9/19/2019
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band41 Body Top QPSK 20MHz 50RB 25offset 40620ch/Area Scan (7x18x1):
Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.74 W/kg

LTE Band41 Body Top QPSK 20MHz 50RB 25offset 40620ch/Zoom Scan (7x7x7)/Cube 0:
Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.29 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 3.34 W/kg
SAR(1 g) = 0.780 W/kg; SAR(10 g) = 0.247 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 22.1%
Maximum value of SAR (measured) = 2.00 W/kg



0 dB = 1.74 W/kg = 2.41 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.2 ℃
Test Date:	06/11/2020
Plot No.:	12

DUT: SM-T878U; Type: Bar;

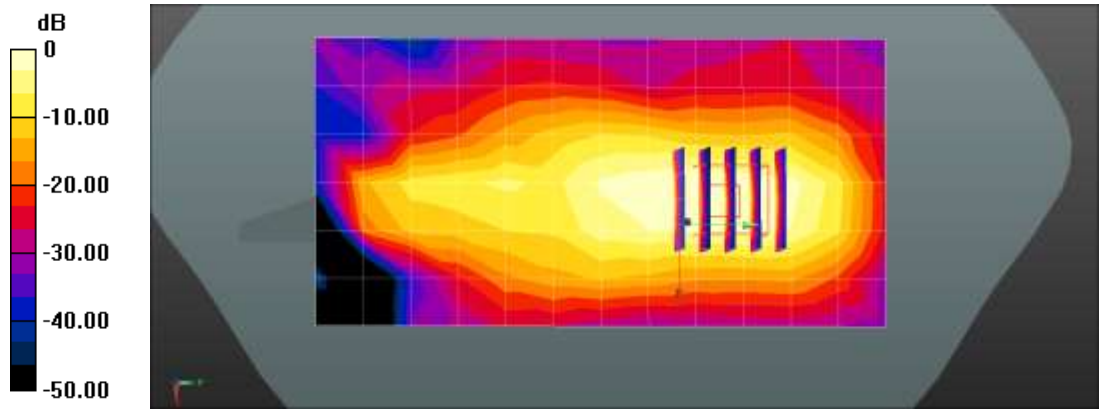
Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.326 S/m; ε_r = 40.126; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34) @ 1745 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 66 Body Top QPSK 20MHz 50RB 25offset 132322ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.595 W/kg

LTE Band 66 Body Top QPSK 20MHz 50RB 25offset 132322ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.26 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.72 W/kg
SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.331 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 30.7%
Maximum value of SAR (measured) = 1.45 W/kg



0 dB = 0.595 W/kg = -2.26 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.3 ℃
Ambient Temperature:	21.6 ℃
Test Date:	06/18/2020
Plot No.:	13

DUT: SM-T878U; Type: Bar;

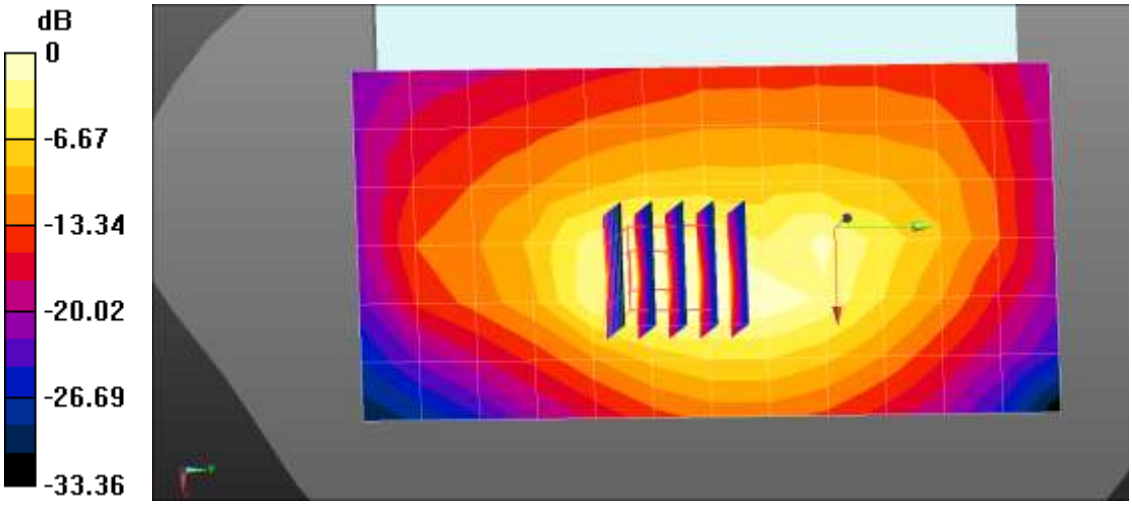
Communication System: UID 0, LTE Band 71 (0); Frequency: 683 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 683 MHz; σ = 0.851 S/m; ε_r = 42.759; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52) @ 683 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

LTE Band 71 Body Rear QPSK 20MHz 1RB 0offset 133322ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.215 W/kg

LTE Band 71 Body Rear QPSK 20MHz 1RB 0offset 133322ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.29 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 2.07 W/kg
SAR(1 g) = 0.442 W/kg; SAR(10 g) = 0.158 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 22.7%
Maximum value of SAR (measured) = 0.774 W/kg



0 dB = 0.215 W/kg = -6.67 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.8 ℃
Ambient Temperature:	20.0 ℃
Test Date:	06/15/2020
Plot No.:	14

DUT: SM-T878U; Type: Bar

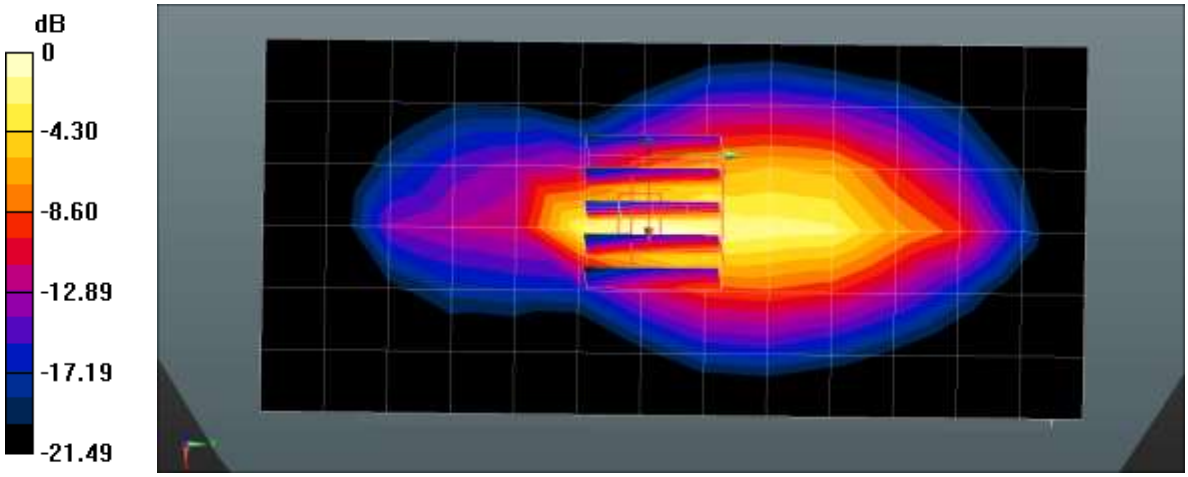
Communication System: UID 0, NR (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.917 S/m; ε_r = 42.382; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ET3DV6 - SN1630; ConvF(6.96, 6.96, 6.96) @ 836.5 MHz; Calibrated: 2020-02-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2019-09-04
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4);

NR n5 Body Top DFTS QPSK 20MHz 1RB 53offset 167300ch/Area Scan (7x14x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.631 W/kg

NR n5 Body Top DFTS QPSK 20MHz 1RB 53offset 167300ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 26.25 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 2.04 W/kg
SAR(1 g) = 0.559 W/kg; SAR(10 g) = 0.236 W/kg
Smallest distance from peaks to all points 3 dB below = 4.8 mm
Ratio of SAR at M2 to SAR at M1 = 30%
Maximum value of SAR (measured) = 0.720 W/kg



0 dB = 0.720 W/kg = -1.43 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.4 ℃
Test Date:	06/24/2020
Plot No.:	15

DUT: SM-T878U; Type: Bar;

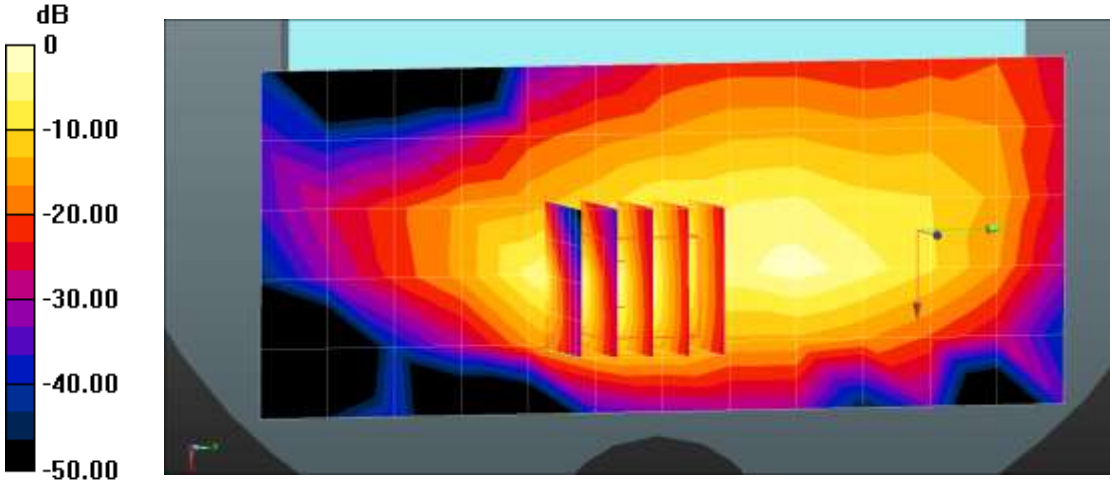
Communication System: UID 0, NR Band 25 (0); Frequency: 1905 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1905 MHz; σ = 1.408 S/m; ε_r = 40.288; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1) @ 1905 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n25 Body Rear CP QPSK 20MHz 1RB 1offset 381000ch/Area Scan (6x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.34 W/kg

NR Band n25 Body Rear CP QPSK 20MHz 1RB 1offset 381000ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.620 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.13 W/kg
SAR(1 g) = 0.883 W/kg; SAR(10 g) = 0.363 W/kg
Smallest distance from peaks to all points 3 dB below = 5.8 mm
Ratio of SAR at M2 to SAR at M1 = 39.1%
Maximum value of SAR (measured) = 1.39 W/kg



0dB = 1.34 W/kg = 1.26 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.5 ℃
Ambient Temperature:	21.6 ℃
Test Date:	06/10/2019
Plot No.:	16

DUT: SM-T878U; Type: Bar

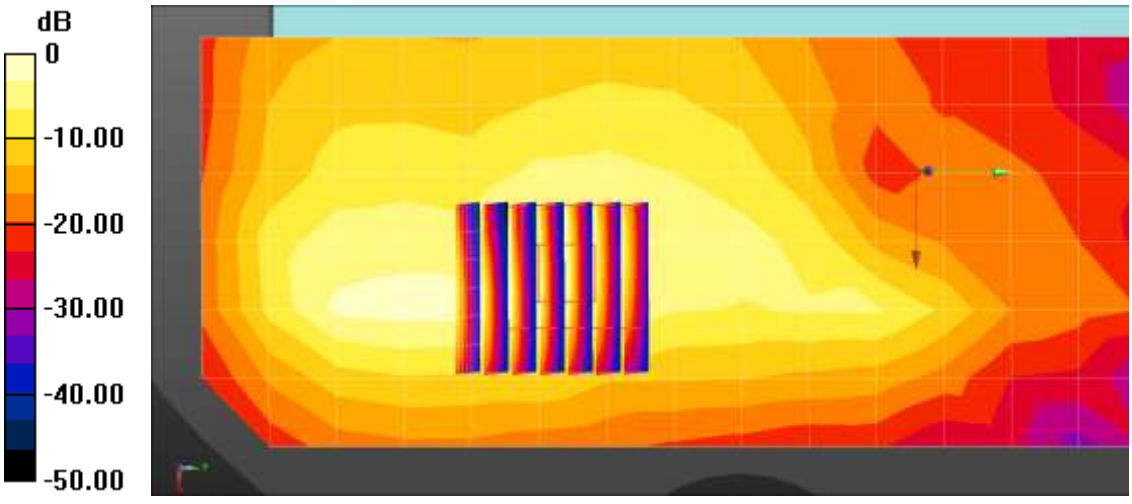
Communication System: UID 0, NR band n41 (0); Frequency: 2592.99 MHz;Duty Cycle: 1:4.00037
Medium parameters used (interpolated): f = 2592.99 MHz; σ = 1.941 S/m; ε_r = 37.891; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.49, 7.49, 7.49); Calibrated: 2020-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

SM-T878U/NR n41 Body Rear DFT-s QPSK 100MHz 1RB 1offset 518598ch/Area Scan (7x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.26 W/kg

SM-T878U/NR n41 Body Rear DFT-s QPSK 100MHz 1RB 1offset 518598ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.685 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 2.53 W/kg
SAR(1 g) = 0.873 W/kg; SAR(10 g) = 0.339 W/kg
Maximum value of SAR (measured) = 1.75 W/kg



0 dB = 1.26 W/kg = 1.01 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.3 ℃
Ambient Temperature:	21.5 ℃
Test Date:	06/16/2020
Plot No.:	17

DUT: SM-T878U; Type: Bar;

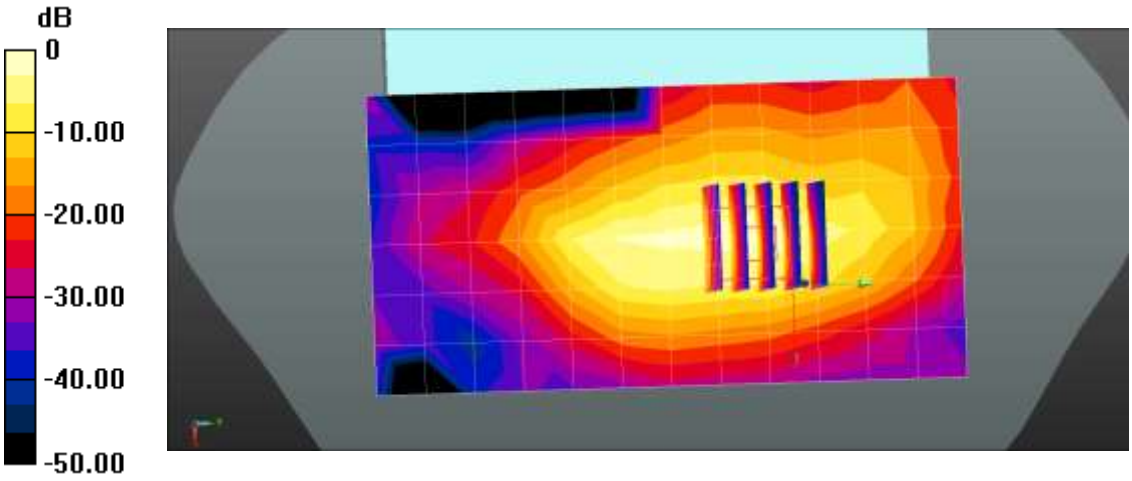
Communication System: UID 0, NR Band 66 (0); Frequency: 1720 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1720 MHz; σ = 1.305 S/m; ε_r = 40.229; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34) @ 1720 MHz; Calibrated: 2019-07-23
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

NR Band n66 Body Rear DFT-s QPSK 20MHz 1RB 1offset 344000ch/Area Scan (7x13x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.13 W/kg

NR Band n66 Body Rear DFT-s QPSK 20MHz 1RB 1offset 344000ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.01 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.48 W/kg
SAR(1 g) = 0.847 W/kg; SAR(10 g) = 0.344 W/kg
Smallest distance from peaks to all points 3 dB below = 6.4 mm
Ratio of SAR at M2 to SAR at M1 = 35.2%
Maximum value of SAR (measured) = 1.30 W/kg



0 dB = 1.13 W/kg = 0.51 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.0 ℃
Ambient Temperature:	20.2 ℃
Test Date:	06/19/2020
Plot No.:	18

DUT: SM-T878U; Type: Bar

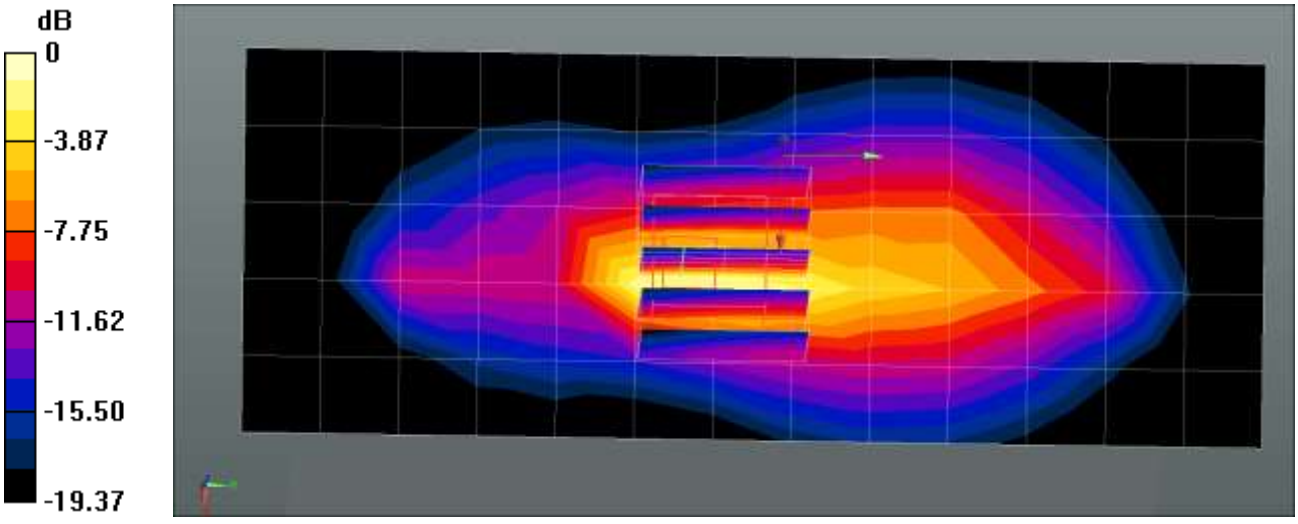
Communication System: UID 0, NR (0); Frequency: 680.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 680.5 MHz; σ = 0.846 S/m; ε_r = 42.912; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: ET3DV6 - SN1630; ConvF(7.22, 7.22, 7.22) @ 680.5 MHz; Calibrated: 2020-02-26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2019-09-04
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4);

NR n71 Body Top CP QPSK 20MHz 1RB 1offset 136100ch/Area Scan (6x14x1):
Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.446 W/kg

NR n71 Body Top CP QPSK 20MHz 1RB 1offset 136100ch/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.56 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 1.81 W/kg
SAR(1 g) = 0.472 W/kg; SAR(10 g) = 0.178 W/kg
Maximum value of SAR (measured) = 0.592 W/kg



0 dB = 0.592 W/kg = -2.28 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.4 ℃
Test Date:	06/29/2020
Plot No.:	19

DUT: SM-T878U; Type: Bar

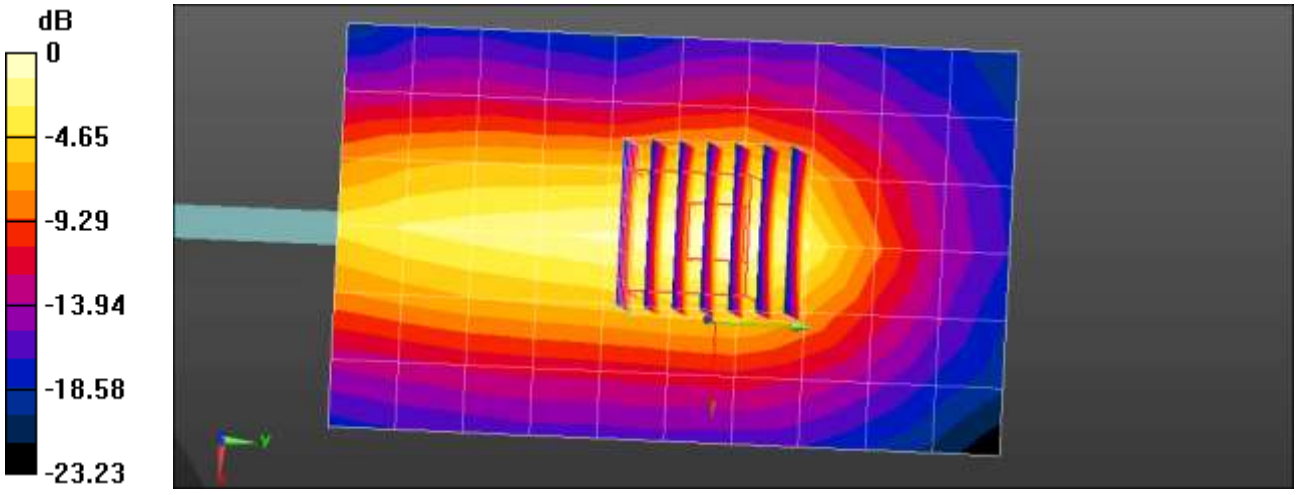
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2462 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2462 MHz; σ = 1.818 S/m; ε_r = 39.907; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2462 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 9/19/2019
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Body Right 1Mbps 11ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.04 W/kg

802.11b Body Right 1Mbps 11ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 12.89 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.37 W/kg
SAR(1 g) = 0.633 W/kg; SAR(10 g) = 0.301 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 47.3%
Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.04 W/kg = 0.17 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.2 ℃
Test Date:	06/19/2020
Plot No.:	20

DUT: SM-T878U; Type: Bar

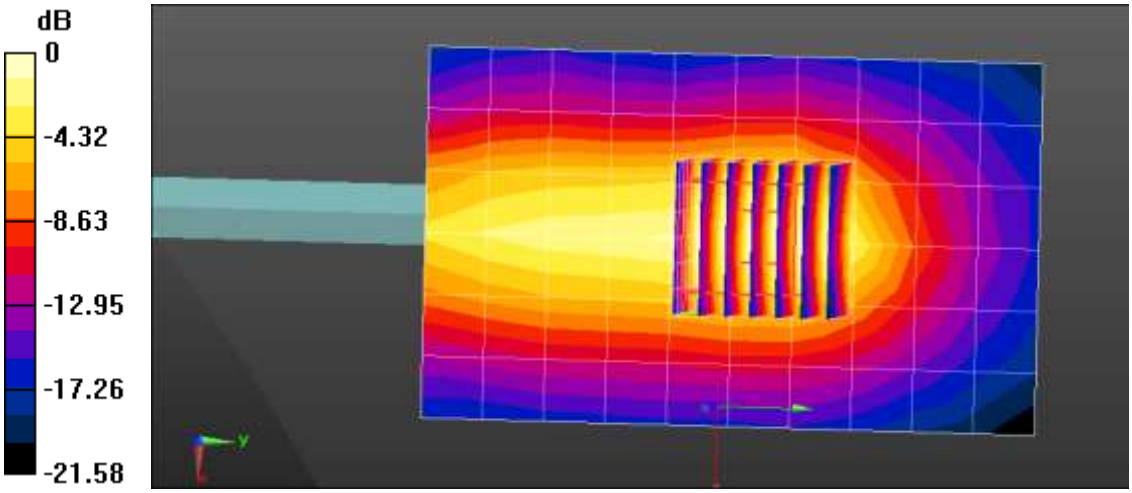
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.791 S/m; ε_r = 39.955; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Body Right 1Mbps 6ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.378 W/kg

802.11b Body Right 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.743 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 0.494 W/kg
SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.111 W/kg
Smallest distance from peaks to all points 3 dB below = 9.2 mm
Ratio of SAR at M2 to SAR at M1 = 47.5%
Maximum value of SAR (measured) = 0.388 W/kg



0 dB = 0.378 W/kg = -4.22 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.2 ℃
Test Date:	06/29/2020
Plot No.:	21

DUT: SM-T878U; Type: Bar

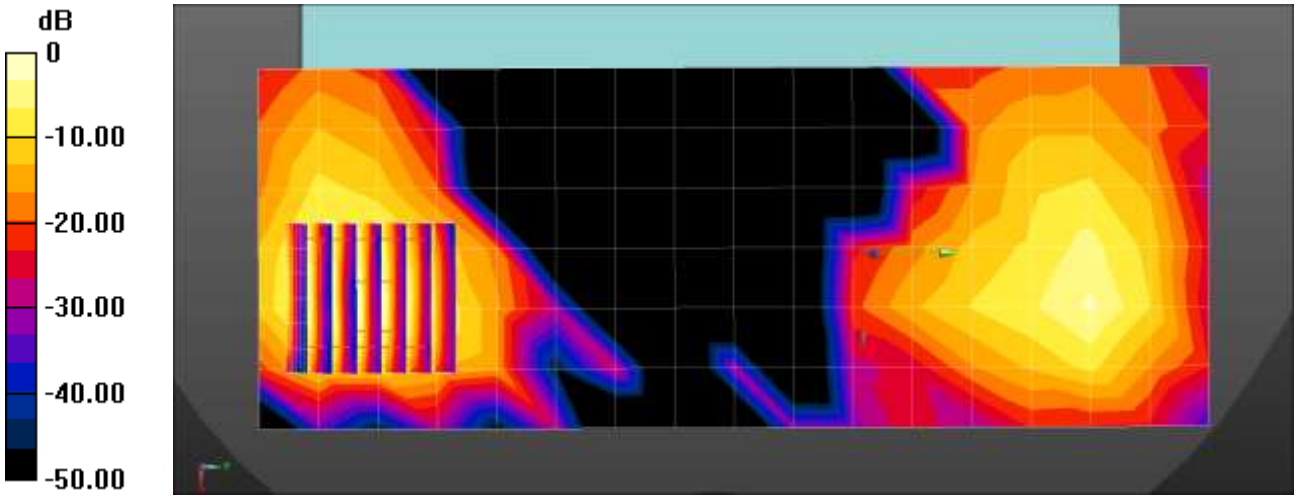
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.797 S/m; ε_r = 39.935; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65); Calibrated: 2020-03-25;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Body Rear 1Mbps 6ch/Area Scan (7x17x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.529 W/kg

802.11b Body Rear 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.837 W/kg
SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.486 W/kg



0 dB = 0.529 W/kg = -2.77 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.4 ℃
Test Date:	06/30/2020
Plot No.:	22

DUT: SM-T878U; Type: Bar

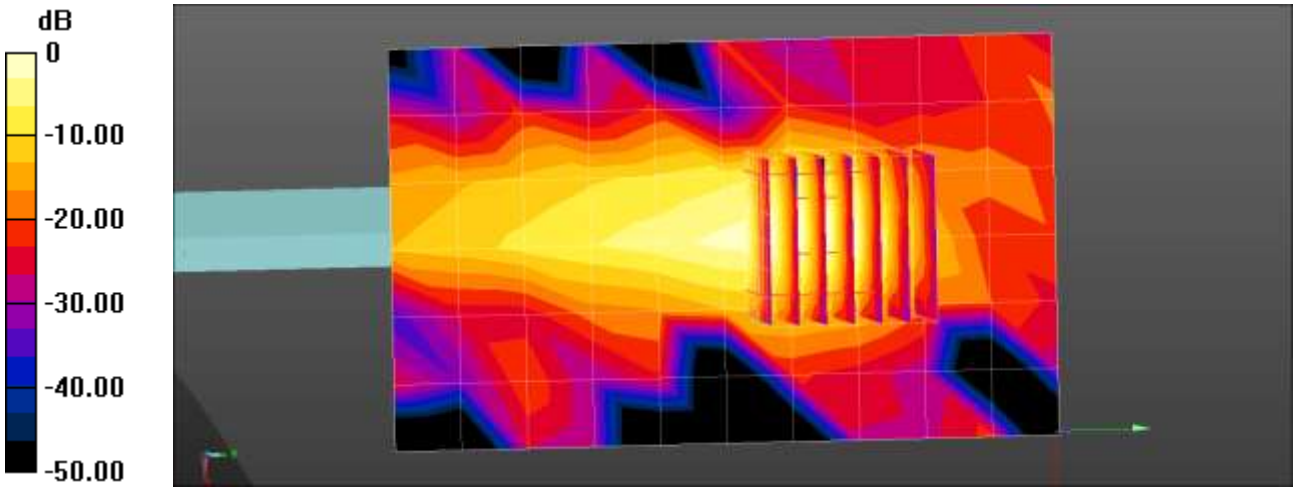
Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2437 MHz; σ = 1.779 S/m; ε_r = 38.53; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2437 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 9/19/2019
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

802.11b Body Right 1Mbps 6ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.264 W/kg

802.11b Body Right 1Mbps 6ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.157 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.611 W/kg
SAR(1 g) = 0.168 W/kg; SAR(10 g) = 0.057 W/kg
Smallest distance from peaks to all points 3 dB below = 5 mm
Ratio of SAR at M2 to SAR at M1 = 27.4%
Maximum value of SAR (measured) = 0.381 W/kg



0 dB = 0.264 W/kg = -5.78 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Tablet
Liquid Temperature: 21.2 ℃
Ambient Temperature: 21.4 ℃
Test Date: 06/29/2020
Plot No.: 23

DUT: SM-T878U; Type: Bar

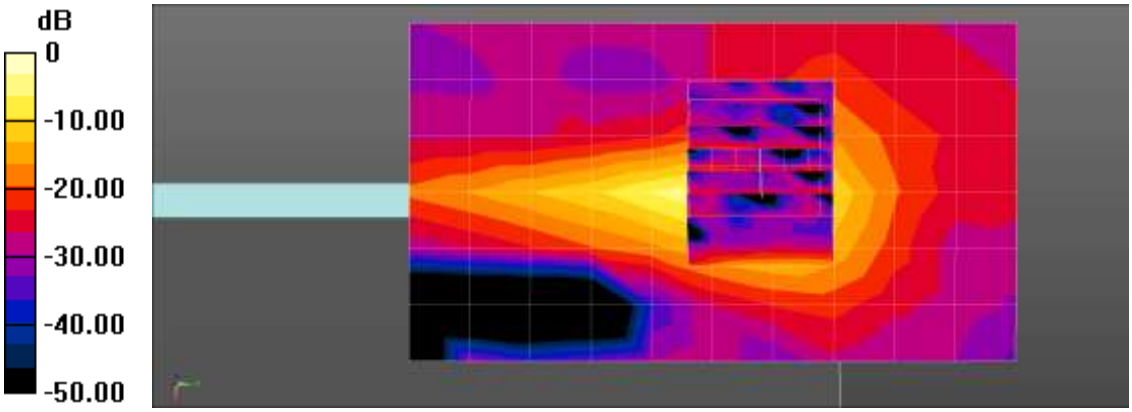
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5290 MHz; σ = 4.729 S/m; ε_r = 35.836; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11ac80 Body Right MCS0 58ch Grip 0mm/Area Scan (7x11x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.15 W/kg

802.11ac80 Body Right MCS0 58ch Grip 0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 7.876 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 6.23 W/kg
SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.161 W/kg
Maximum value of SAR (measured) = 2.67 W/kg



0 dB = 2.67 W/kg = 4.27 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.3 ℃
Ambient Temperature:	20.5 ℃
Test Date:	06/30/2020
Plot No.:	24

DUT: SM-T878U; Type: Bar;

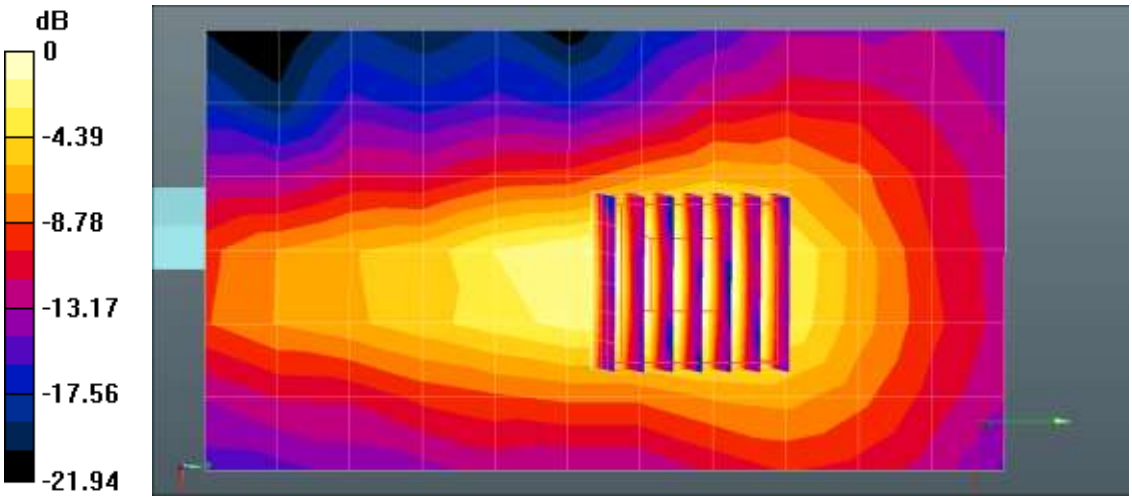
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.926 S/m; ε_r = 36.676; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.51, 4.51, 4.51) @ 5600 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11a20 Body Right 6Mbps 120ch/Area Scan (7x12x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.10 W/kg

802.11a20 Body Right 6Mbps 120ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 14.41 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 2.45 W/kg
SAR(1 g) = 0.581 W/kg; SAR(10 g) = 0.201 W/kg
Maximum value of SAR (measured) = 1.41 W/kg



0 dB = 1.10 W/kg = 0.41 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.2 ℃
Ambient Temperature:	21.4 ℃
Test Date:	06/29/2020
Plot No.:	25

DUT: SM-T878U; Type: Bar

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 5.164 S/m; ε_r = 35.936; ρ = 1000 kg/m^3
Phantom section: Flat Section

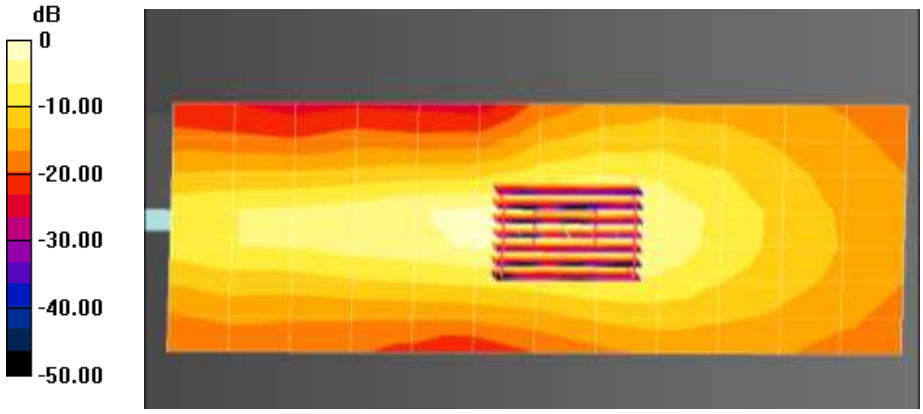
DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5785 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Body Right 6Mbps 157ch Max 8mm/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.03 W/kg

802.11a Body Right 6Mbps 157ch Max 8mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 11.92 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.72 W/kg
SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.187 W/kg
Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.8 ℃
Ambient Temperature:	21.1 ℃
Test Date:	06/30/2020
Plot No.:	26

DUT: SM-T878U; Type: Bar

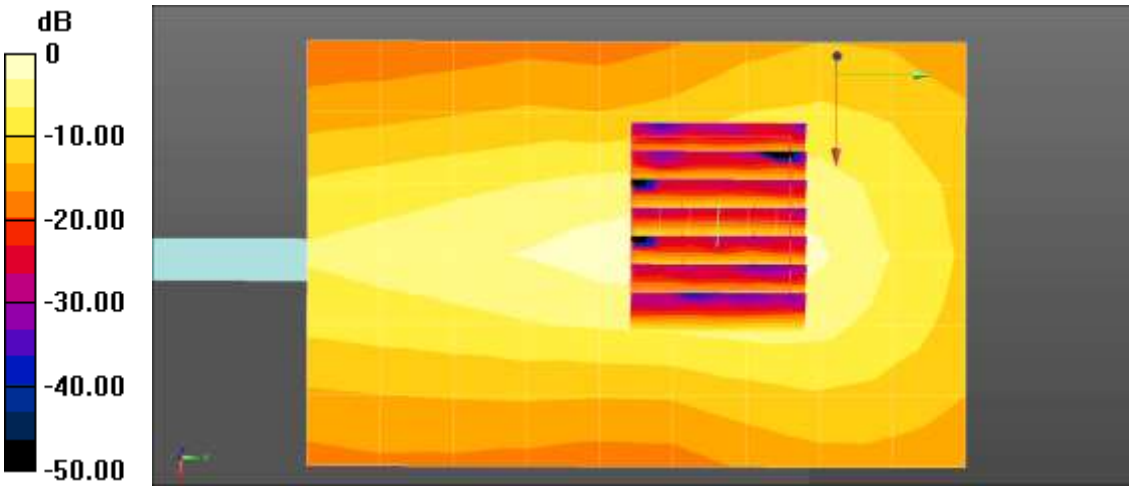
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5260 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5260 MHz; σ = 4.777 S/m; ε_r = 36.803; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5260 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Body Right 6Mbps 52ch Max 8mm/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.19 W/kg

802.11a Body Right 6Mbps 52ch Max 8mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.11 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 2.40 W/kg
SAR(1 g) = 0.522 W/kg; SAR(10 g) = 0.183 W/kg
Maximum value of SAR (measured) = 1.29 W/kg



0 dB = 1.29 W/kg = 1.11 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.8 ℃
Ambient Temperature:	21.1 ℃
Test Date:	06/30/2020
Plot No.:	27

DUT: SM-T878U; Type: Bar

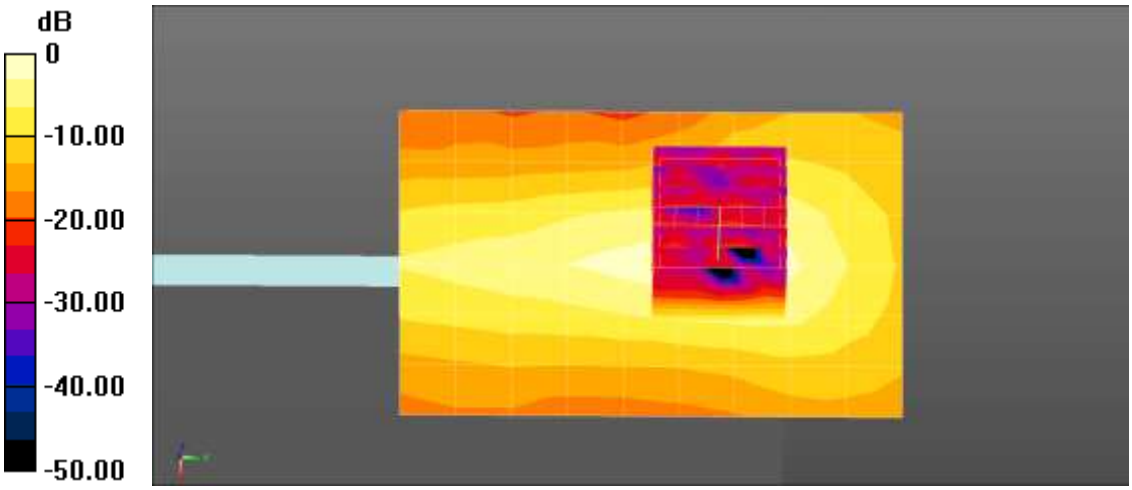
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.053 S/m; ε_r = 36.492; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Body Right 6Mbps 120ch Max 8mm/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.32 W/kg

802.11a Body Right 6Mbps 120ch Max 8mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 13.60 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 2.63 W/kg
SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.185 W/kg
Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.8 ℃
Ambient Temperature:	21.1 ℃
Test Date:	06/30/2020
Plot No.:	28

DUT: SM-T878U; **Type: Bar**

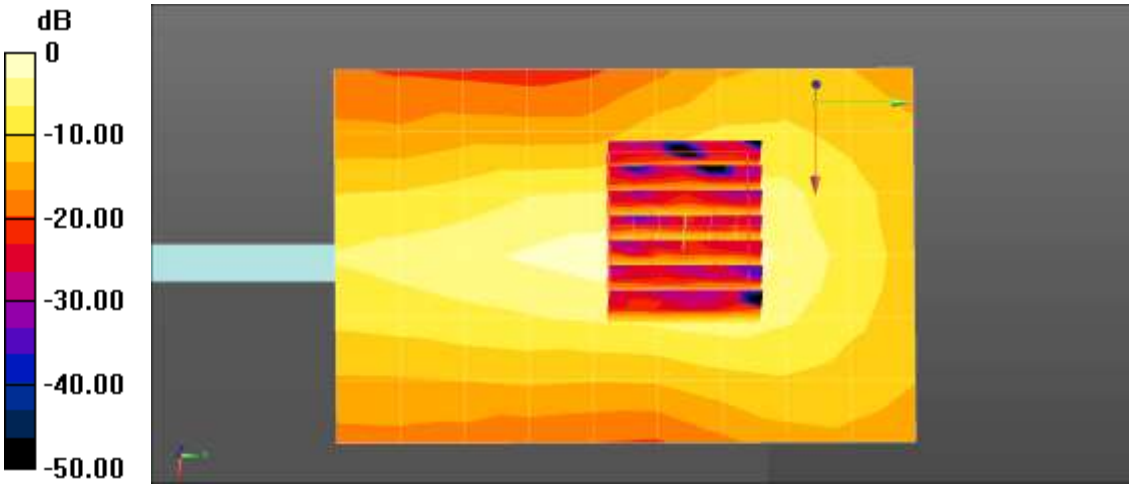
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5785 MHz; σ = 5.154 S/m; ε_r = 36.265; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5785 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11a Body Right 6Mbps 157ch Max 8mm/Area Scan (7x10x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.933 W/kg

802.11a Body Right 6Mbps 157ch Max 8mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 9.864 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 1.98 W/kg
SAR(1 g) = 0.391 W/kg; SAR(10 g) = 0.132 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 55.8%
Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg = -0.01 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.9 ℃
Ambient Temperature:	21.1 ℃
Test Date:	07/02/2020
Plot No.:	29

DUT: SM-T878U; Type: Bar;

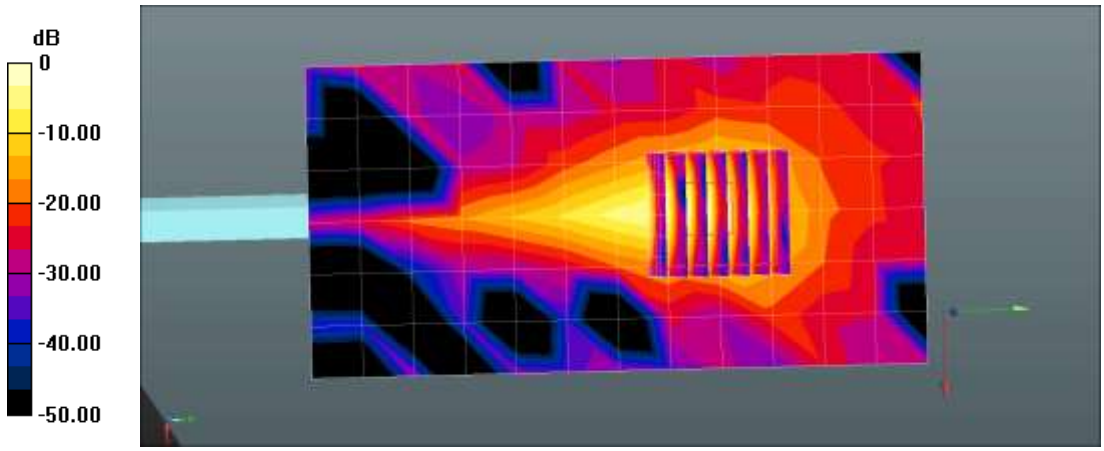
Communication System: UID 0, WiFI5GHz ac80 (0); Frequency: 5290 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5290 MHz; σ = 4.849 S/m; ε_r = 36.641; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.18, 5.18, 5.18) @ 5290 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11ac80 Body Right MCS0 58ch/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.76 W/kg

802.11ac80 Body Right MCS0 58ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 6.522 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 4.48 W/kg
SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 1.92 W/kg



0 dB = 1.76 W/kg = 2.44 dBW/kg

Test Laboratory: HCT CO., LTD
EUT Type: Tablet
Liquid Temperature: 20.9 ℃
Ambient Temperature: 21.1 ℃
Test Date: 07/02/2020
Plot No.: 30

DUT: SM-T878U; Type: Bar;

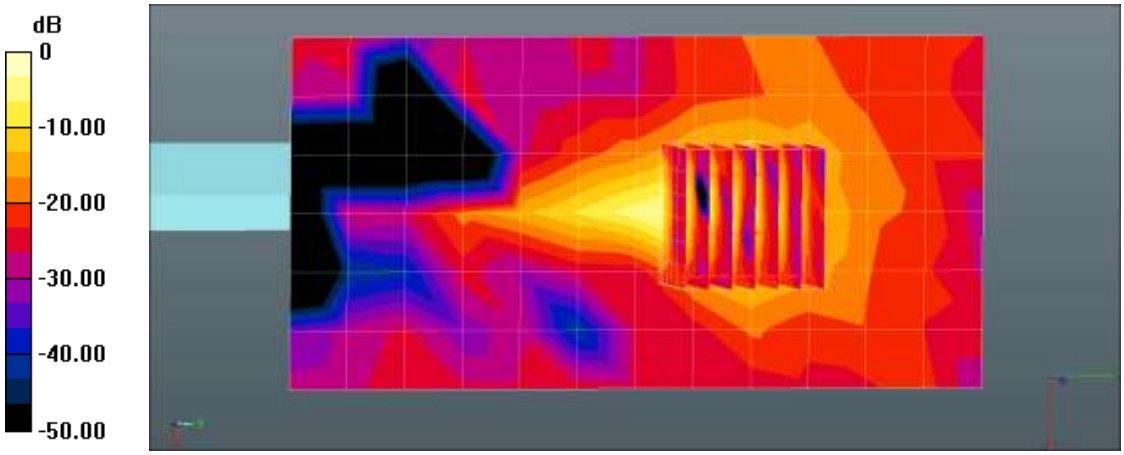
Communication System: UID 0, WiFI5GHz ac80 (0); Frequency: 5530 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5530 MHz; σ = 5.038 S/m; ε_r = 36.365; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.51, 4.51, 4.51) @ 5530 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11ac80 Body Right MCS0 106ch/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.18 W/kg

802.11ac80 Body Right MCS0 106ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 5.310 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 4.02 W/kg
SAR(1 g) = 0.480 W/kg; SAR(10 g) = 0.104 W/kg
Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.18 W/kg = 0.73 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	20.9 ℃
Ambient Temperature:	21.1 ℃
Test Date:	07/02/2020
Plot No.:	31

DUT: SM-T878U; Type: Bar;

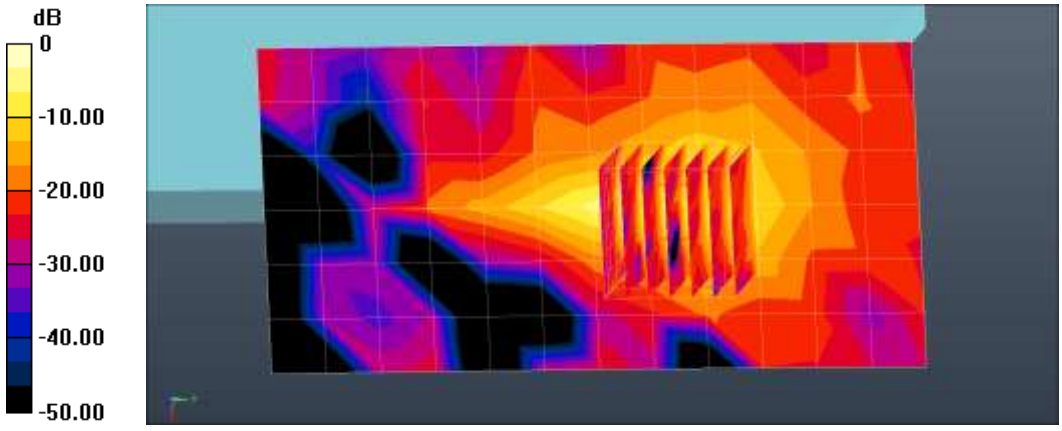
Communication System: UID 0, WiFI5GHz ac80 (0); Frequency: 5775 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5775 MHz; σ = 5.399 S/m; ε_r = 35.834; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5775 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

802.11ac80 Body Right MCS0 155ch/Area Scan (7x13x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.896 W/kg

802.11ac80 Body Right MCS0 155ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.169 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 2.47 W/kg
SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.064 W/kg
Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 0.896 W/kg = -0.48 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.7 ℃
Test Date:	07/01/2020
Plot No.:	32

DUT: SM-T878U; Type: Bar

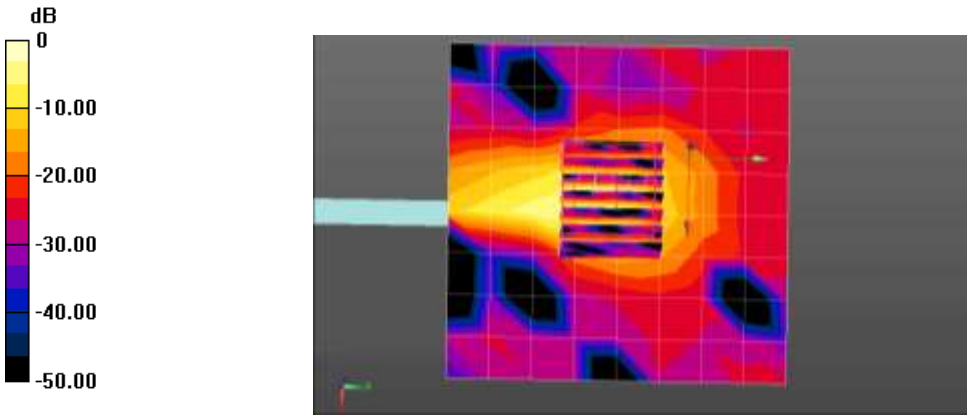
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5290 MHz; σ = 4.903 S/m; ε_r = 36.462; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11ac80 Body Right MCS0 58ch Grip 0mm/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.589 W/kg

802.11ac80 Body Right MCS0 58ch Grip 0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.700 V/m; Power Drift = 0.19 dB
Peak SAR (extrapolated) = 2.32 W/kg
SAR(1 g) = 0.316 W/kg; SAR(10 g) = 0.070 W/kg
Maximum value of SAR (measured) = 0.923 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.7 ℃
Test Date:	07/01/2020
Plot No.:	33

DUT: SM-T878U; Type: Bar

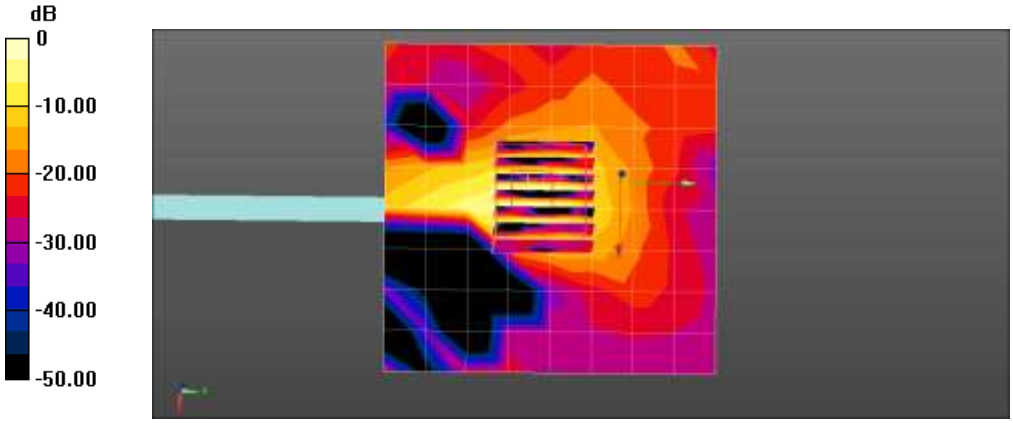
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5690 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5690 MHz; σ = 5.233 S/m; ε_r = 35.52; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5690 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11ac80 Body Right MCS0 138ch Grip 0mm/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.490 W/kg

802.11ac80 Body Right MCS0 138ch Grip 0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 4.348 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 1.91 W/kg
SAR(1 g) = 0.231 W/kg; SAR(10 g) = 0.051 W/kg
Maximum value of SAR (measured) = 0.694 W/kg



0 dB = 0.694 W/kg = -1.59 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.6 ℃
Ambient Temperature:	19.7 ℃
Test Date:	07/01/2020
Plot No.:	34

DUT: SM-T878U; Type: Bar

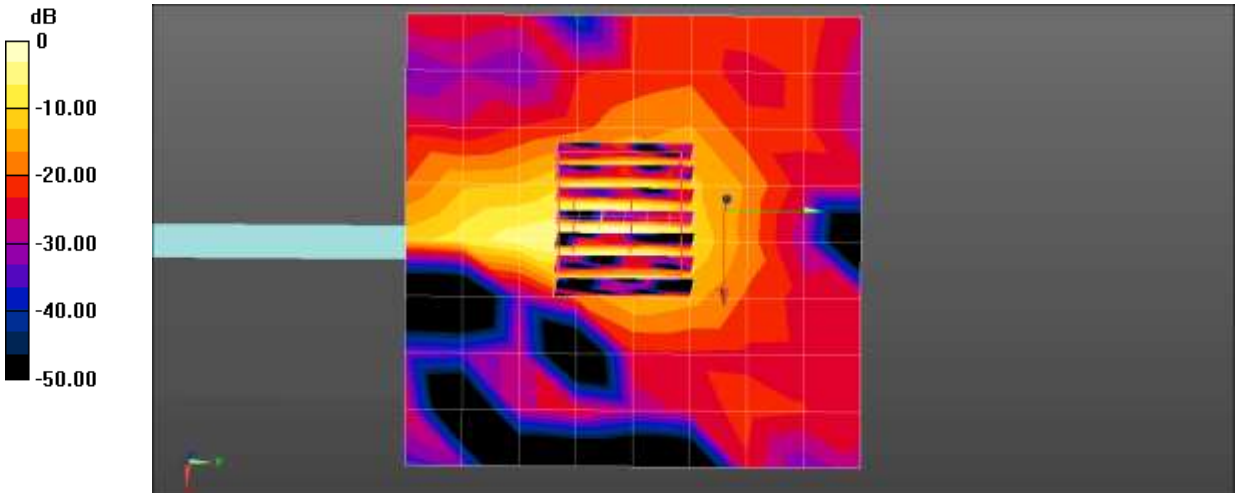
Communication System: UID 0, WIFI 5GHz (0); Frequency: 5775 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5775 MHz; σ = 5.353 S/m; ε_r = 35.976; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5775 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

802.11ac80 Body Right MCS0 155ch Grip 0mm/Area Scan (9x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.372 W/kg

802.11ac80 Body Right MCS0 155ch Grip 0mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 3.541 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 1.44 W/kg
SAR(1 g) = 0.179 W/kg; SAR(10 g) = 0.039 W/kg
Maximum value of SAR (measured) = 0.539 W/kg



0 dB = 0.539 W/kg = -2.68 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	19.4 ℃
Ambient Temperature:	19.8 ℃
Test Date:	07/10/2020
Plot No.:	35

DUT: SM-T878U; Type: Bar

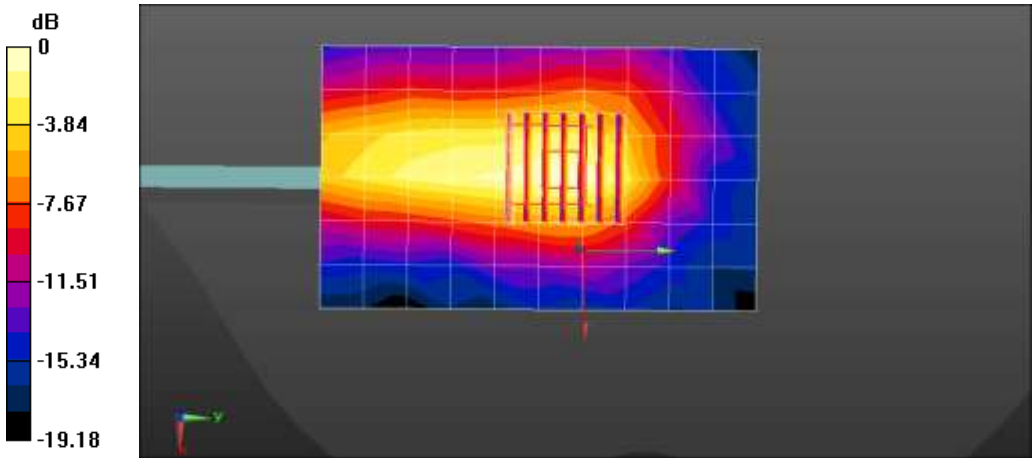
Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz;Duty Cycle: 1: 1.298
Medium parameters used (interpolated): f = 2441 MHz; σ = 1.799 S/m; ε_r = 39.48; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2441 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 9/19/2019
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

SM-T878U/Bluetooth Body Left DH5 39ch/Area Scan (7x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.202 W/kg

SM-T878U/Bluetooth Body Left DH5 39ch/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.489 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.276 W/kg
SAR(1 g) = 0.129 W/kg; SAR(10 g) = 0.062 W/kg
Maximum value of SAR (measured) = 0.220 W/kg



0 dB = 0.202 W/kg = -6.94 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.6 ℃
Ambient Temperature:	21.8 ℃
Test Date:	06/03/2020
Plot No.:	36

DUT: SM-T878U; Type: Bar

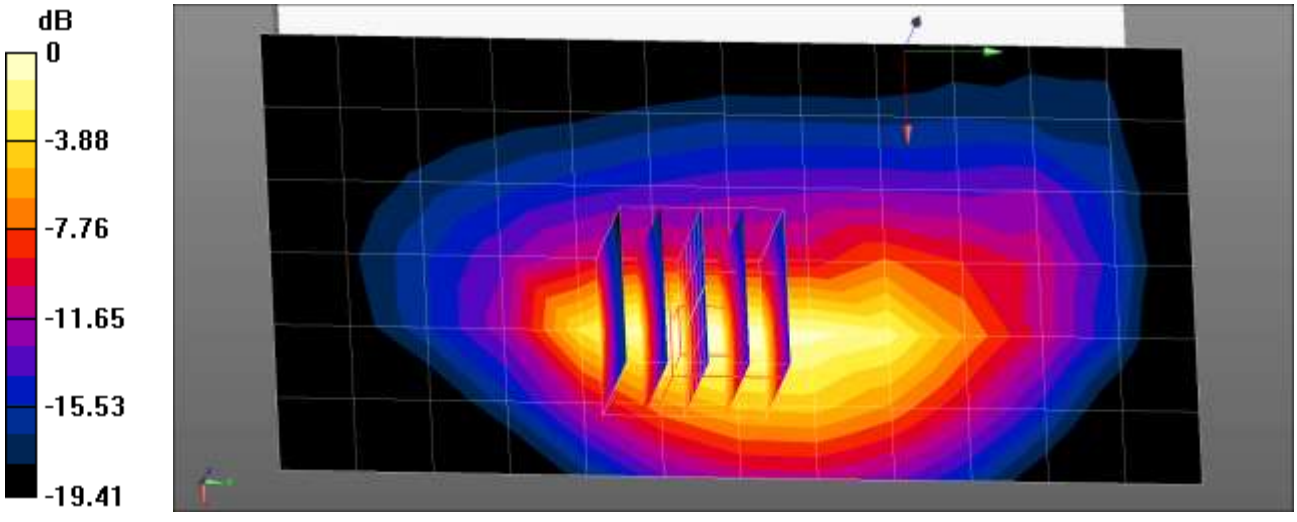
Communication System: UID 0, LTE Band 5 (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.942 S/m; ε_r = 42.721; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22) @ 836.5 MHz;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 5 Rear 10MHz QPSK 1RB 49offset ULCA/Area Scan (7x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.891 W/kg

LTE Band 5 Rear 10MHz QPSK 1RB 49offset ULCA/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.31 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.78 W/kg
SAR(1 g) = 0.579 W/kg; SAR(10 g) = 0.272 W/kg
Maximum value of SAR (measured) = 0.856 W/kg



0 dB = 0.856 W/kg = −0.68 dBW/kg

Test Laboratory:	HCT CO., LTD
EUT Type:	Tablet
Liquid Temperature:	21.0 ℃
Ambient Temperature:	21.2 ℃
Test Date:	06/11/2020
Plot No.:	37

DUT: SM-T878U; Type: Bar

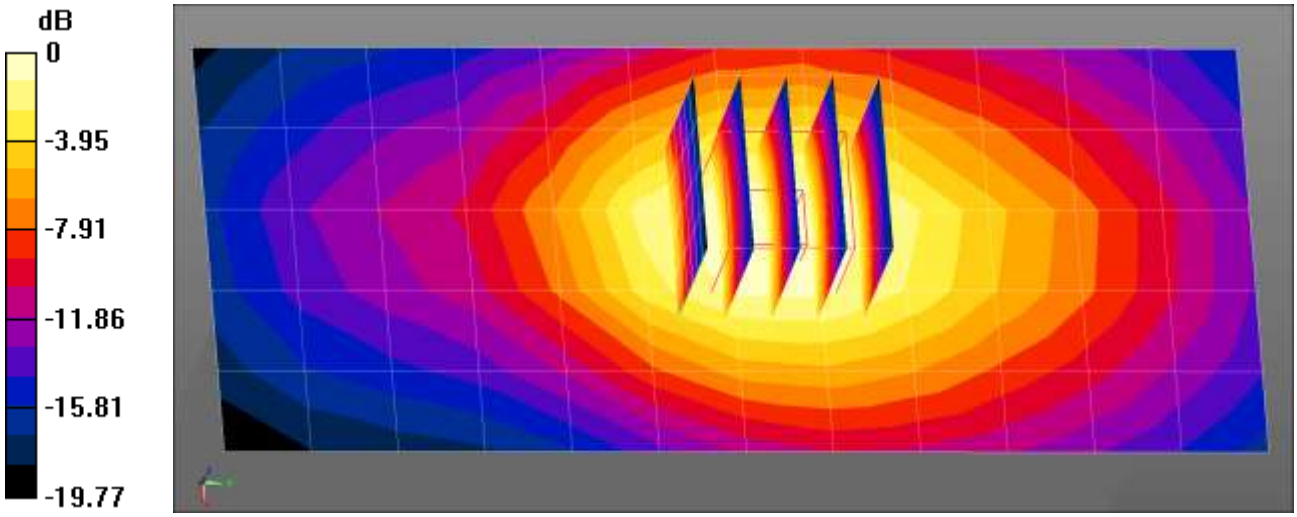
Communication System: UID 0, LTE Band 66(20MHz FCC) (0); Frequency: 1745 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1745 MHz; σ = 1.326 S/m; ε_r = 40.126; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34) @ 1745 MHz;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

LTE Band 66 Top 20MHz QPSK 1RB 0offset ULCA/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.886 W/kg

LTE Band 66 Top 20MHz QPSK 1RB 0offset ULCA/Zoom Scan (5x5x7)/Cube 0:
Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.24 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.28 W/kg
SAR(1 g) = 0.838 W/kg; SAR(10 g) = 0.512 W/kg
Maximum value of SAR (measured) = 0.999 W/kg



0 dB = 0.886 W/kg = −0.52 dBW/kg

Multi-Band Volume Scan : SAR

Multi-Band Configurations: #V1

LTE B66 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant1) + Bluetooth(chain0)

Test Date: 07/10/2020 Ambient Temperature: 20.8°C Liquid Temperature:20.5°C

Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1800MHz Medium parameters used (interpolated): f = 1745 MHz; σ = 1.329 S/m; ε_r = 40.196; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7370; ConvF(8.43, 8.43, 8.43) @ 1745 MHz; Calibrated: 8/29/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 5/25/2020
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5530 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5530 MHz; σ = 4.92 S/m; ε_r = 35.645; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5530 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°CCommunication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1.298; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

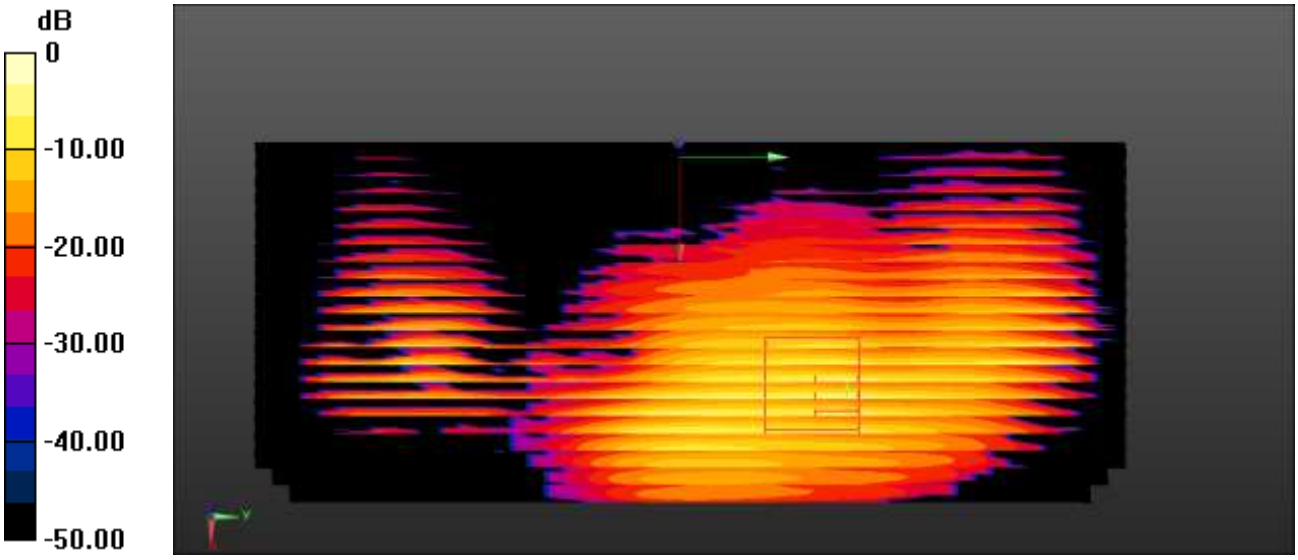
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (interpolated) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

Multi-Band Configurations: #V2

NR n25 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant1) + Bluetooth(chain0)

Test Date: 07/09/2020 Ambient Temperature: 20.7°C Liquid Temperature:20.6°C

Communication System: UID 0, NR Band 25 (0); Frequency: 1905 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1900MHz Medium parameters used (interpolated): f = 1905 MHz; σ = 1.34 S/m; ε_r = 38.955; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3903; ConvF(8.31, 8.31, 8.31) @ 1905 MHz; Calibrated: 3/25/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2/26/2020
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5530 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5530 MHz; σ = 4.92 S/m; ε_r = 35.645; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5530 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

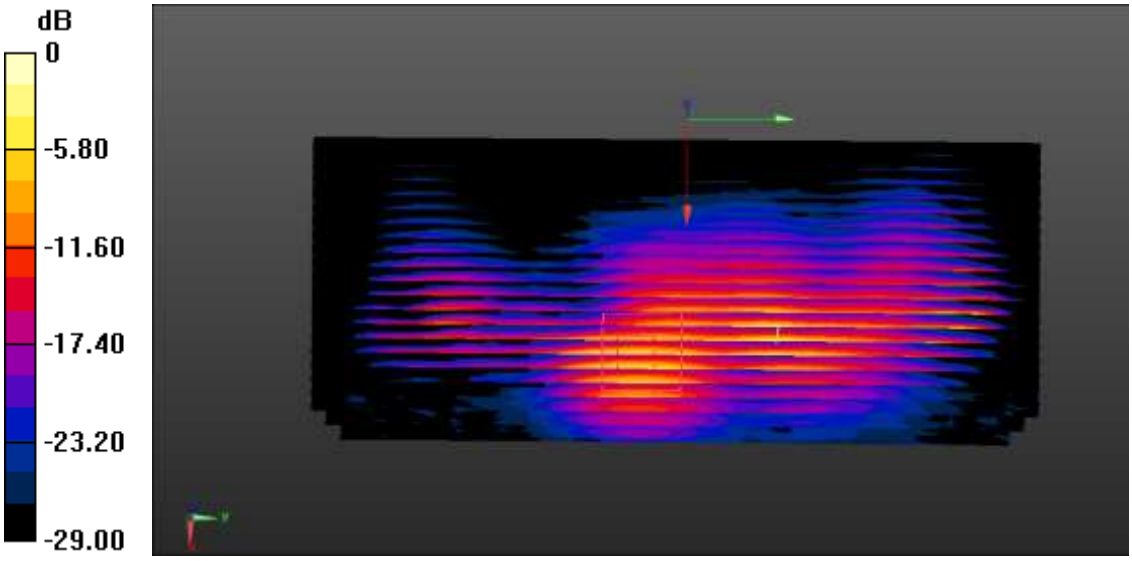
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.962 W/kg; SAR(10 g) = 0.382 W/kg
Maximum value of SAR (interpolated) = 3.13 W/kg



0 dB = 3.13 W/kg = 4.96 dBW/kg

Multi-Band Configurations: #V3

NR n66 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant1) + Bluetooth(chain0)

Test Date: 07/10/2020 Ambient Temperature: 20.1°C Liquid Temperature:19.9°C

Communication System: UID 0, NR Band 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1800MHz Medium parameters used: f = 1770 MHz; σ = 1.345 S/m; ε_r = 40.036; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3903; ConvF(8.62, 8.62, 8.62) @ 1770 MHz; Calibrated: 3/25/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2/26/2020
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5530 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5530 MHz; σ = 4.92 S/m; ε_r = 35.645; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5530 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

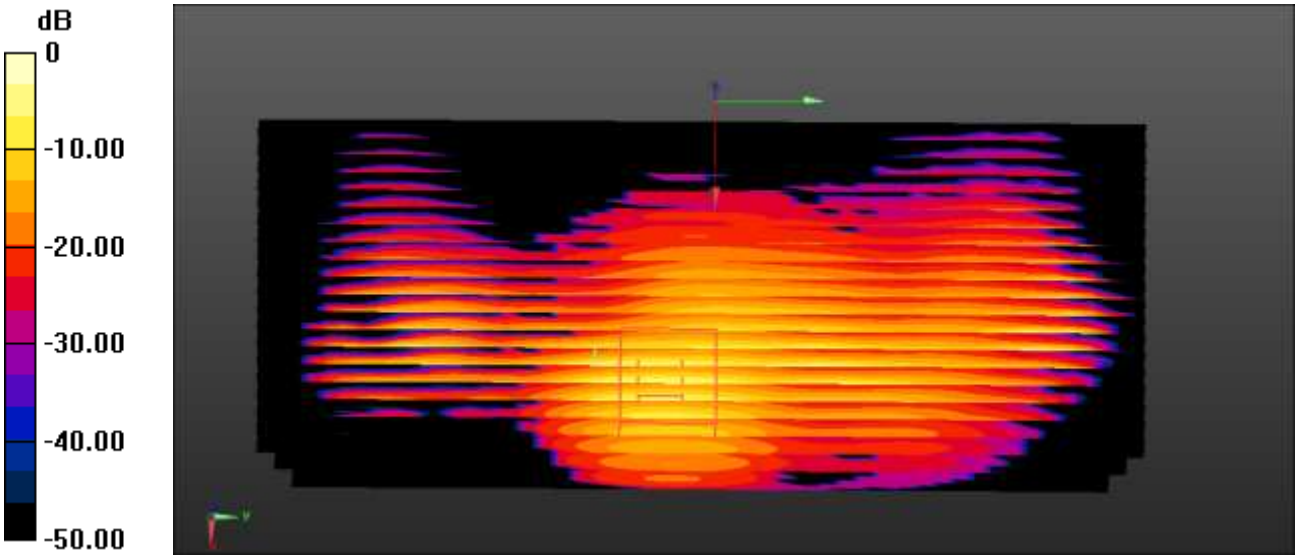
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.348 W/kg
Maximum value of SAR (interpolated) = 3.13 W/kg



0 dB = 3.13 W/kg = 4.96 dBW/kg

Multi-Band Configurations: #V4

WCDMA B4 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant2) + Bluetooth(chain0)

Test Date: 07/10/2020 Ambient Temperature: 20.1°C Liquid Temperature:19.9°C

Communication System: UID 0, WCDMA 1700 (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1800MHz Medium parameters used (interpolated): f = 1752.6 MHz; σ = 1.33 S/m; ε_r = 40.141; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3903; ConvF(8.62, 8.62, 8.62) @ 1752.6 MHz; Calibrated: 3/25/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2/26/2020
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5290 MHz; σ = 4.659 S/m; ε_r = 35.971; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

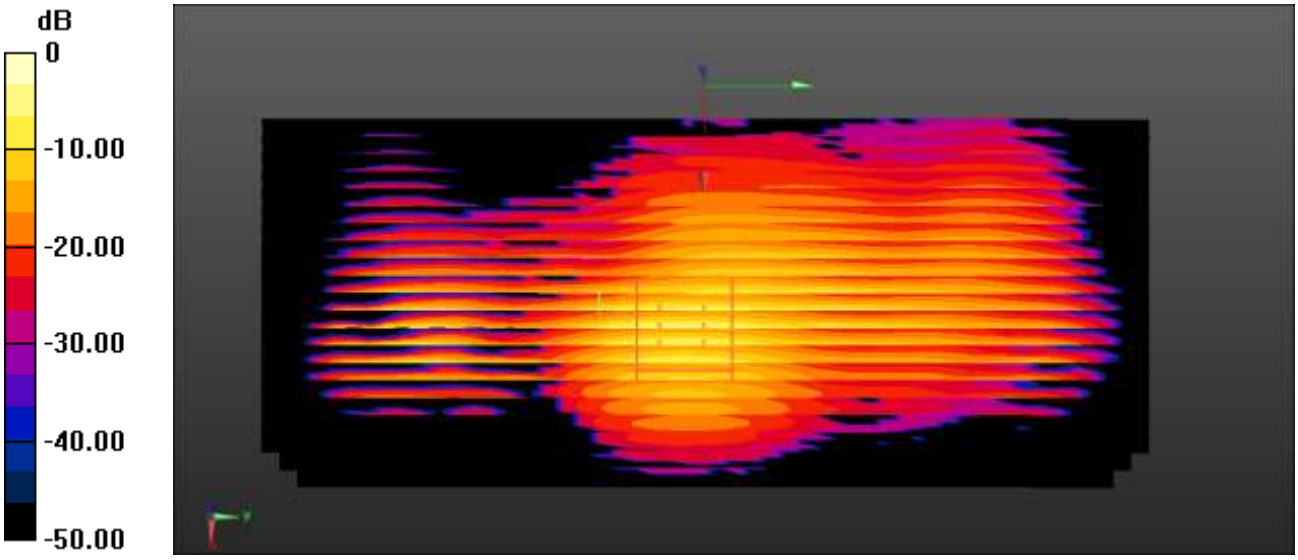
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.344 W/kg
Maximum value of SAR (interpolated) = 2.65 W/kg



0 dB = 2.65 W/kg = 4.23 dBW/kg

Multi-Band Configurations: #V5

LTE B66 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant2) + Bluetooth(chain0)

Test Date: 07/10/2020 Ambient Temperature: 20.8°C Liquid Temperature:20.5°C

Communication System: UID 0, LTE Band 66 (0); Frequency: 1745 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1800MHz Medium parameters used (interpolated): f = 1745 MHz; σ = 1.329 S/m; ε_r = 40.196; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

- Probe: EX3DV4 - SN7370; ConvF(8.43, 8.43, 8.43) @ 1745 MHz; Calibrated: 8/29/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 5/25/2020
- Phantom: Twin-SAM V4.0 Right; Type: QD 000 P40 CC; Serial: xxxx

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5290 MHz; σ = 4.659 S/m; ε_r = 35.971; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

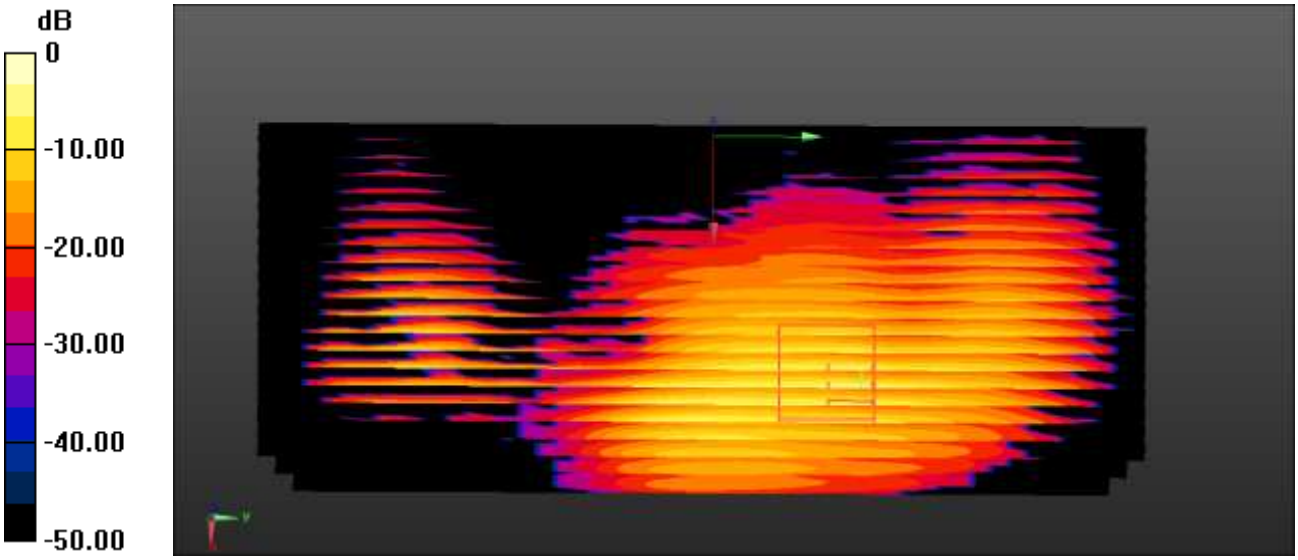
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.669 W/kg; SAR(10 g) = 0.277 W/kg
Maximum value of SAR (interpolated) = 2.39 W/kg



0 dB = 2.39 W/kg = 3.78 dBW/kg

Multi-Band Configurations: #V6

NR n25 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant2) + Bluetooth(chain0)

Test Date: 07/09/2020 Ambient Temperature: 20.7°C Liquid Temperature:20.6°C

Communication System: UID 0, NR Band 25 (0); Frequency: 1905 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1900MHz Medium parameters used (interpolated): f = 1905 MHz; σ = 1.34 S/m; ε_r = 38.955; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3903; ConvF(8.31, 8.31, 8.31) @ 1905 MHz; Calibrated: 3/25/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2/26/2020
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5290 MHz; σ = 4.659 S/m; ε_r = 35.971; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

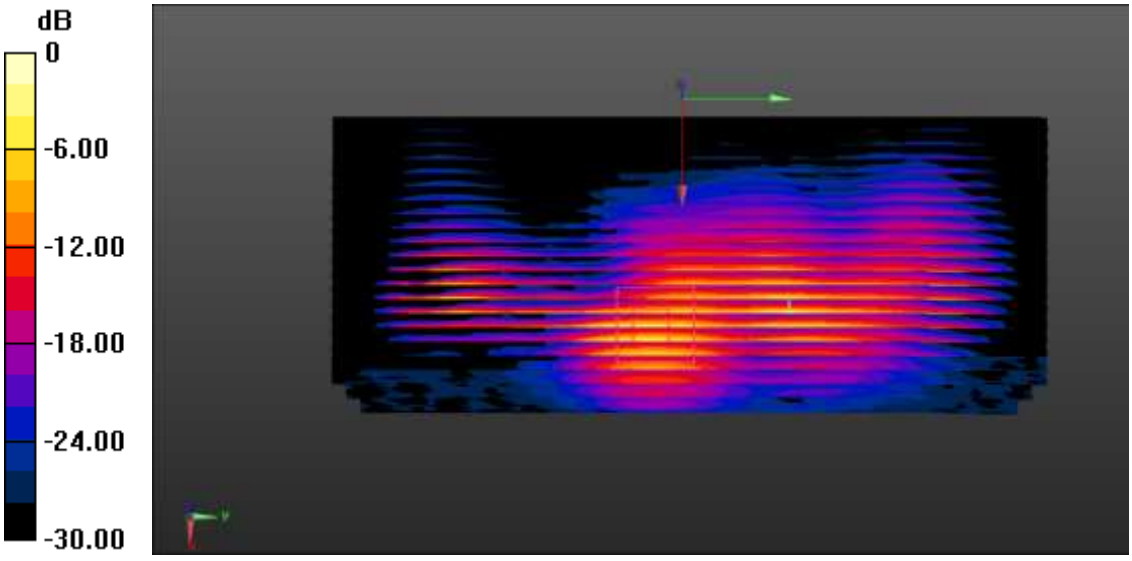
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.963 W/kg; SAR(10 g) = 0.382 W/kg
Maximum value of SAR (interpolated) = 3.13 W/kg



0 dB = 3.13 W/kg = 4.96 dBW/kg

Multi-Band Configurations: #V7

NR n66 + 2.4GHz WiFi(chain1)+ 5GHz WiFi(Ant2) + Bluetooth(chain0)

Test Date: 07/10/2020 Ambient Temperature: 20.1°C Liquid Temperature:19.9°C

Communication System: UID 0, NR Band 66 (0); Frequency: 1770 MHz; Duty Cycle: 1:1; PMF: 1.12202e-005
Medium: 1800MHz Medium parameters used: f = 1770 MHz; σ = 1.345 S/m; ε_r = 40.036; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3903; ConvF(8.62, 8.62, 8.62) @ 1770 MHz; Calibrated: 3/25/2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2/26/2020
- Phantom: SAM with CRP v5.0_Front; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/09/2020 Ambient Temperature: 20.2°C Liquid Temperature:20.0°C

Communication System: UID 0, WIFI 5GHz (0); Frequency: 5290 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 5GHz Medium parameters used (interpolated): f = 5290 MHz; σ = 4.659 S/m; ε_r = 35.971; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5290 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, 2450MHz FCC (0); Frequency: 2437 MHz; Duty Cycle: 1:1; PMF: 1
Medium: 2450MHz Medium parameters used (interpolated): f = 2437 MHz; σ = 1.792 S/m; ε_r = 39.967; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

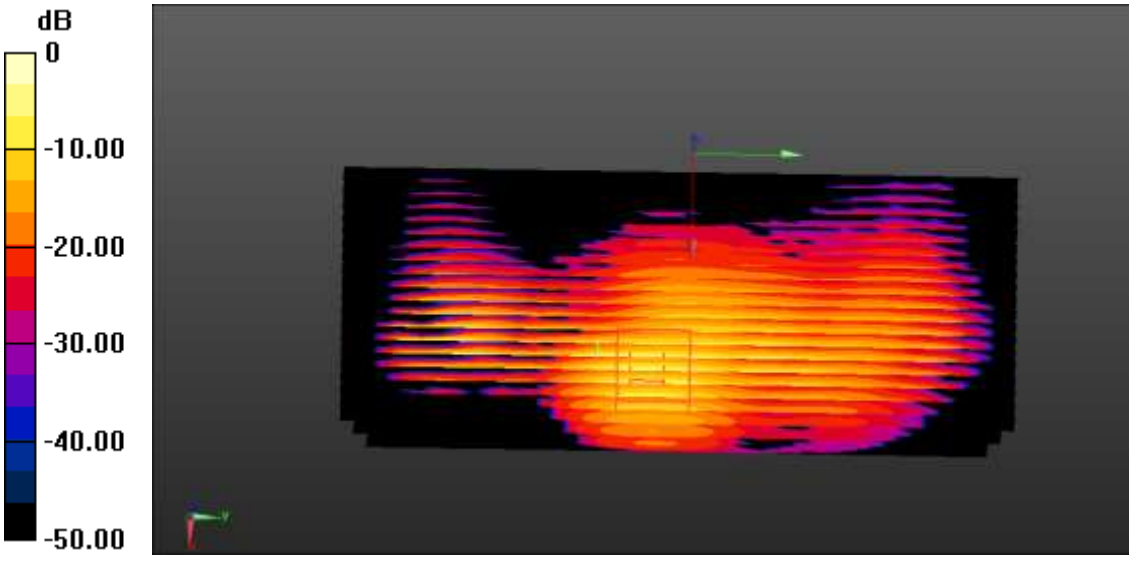
- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2437 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Test Date: 07/10/2020 Ambient Temperature: 19.8°C Liquid Temperature:19.4°C

Communication System: UID 0, Bluetooth (0); Frequency: 2480 MHz; Duty Cycle: 1: 1.298; PMF: 1
Medium: 2450MHz Medium parameters used: f = 2480 MHz; σ = 1.838 S/m; ε_r = 39.818; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2480 MHz; Calibrated: 9/27/2019
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left); Type: QD 000 P40 CC; Serial: xxxx
- Measurement SW: DASY52, Version 52.10 (4)

Multi Band Result:
SAR(1 g) = 0.854 W/kg; SAR(10 g) = 0.348 W/kg
Maximum value of SAR (interpolated) = 3.13 W/kg



0 dB = 3.13 W/kg = 4.96 dBW/kg

Appendix C. – Dipole Verification Plots

■ **Verification Data (750 ㎒ Head) V1**

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.8 ℃
Test Date: 06/17/2020

DUT: Dipole 750 MHz D750V3; Type: D750V3

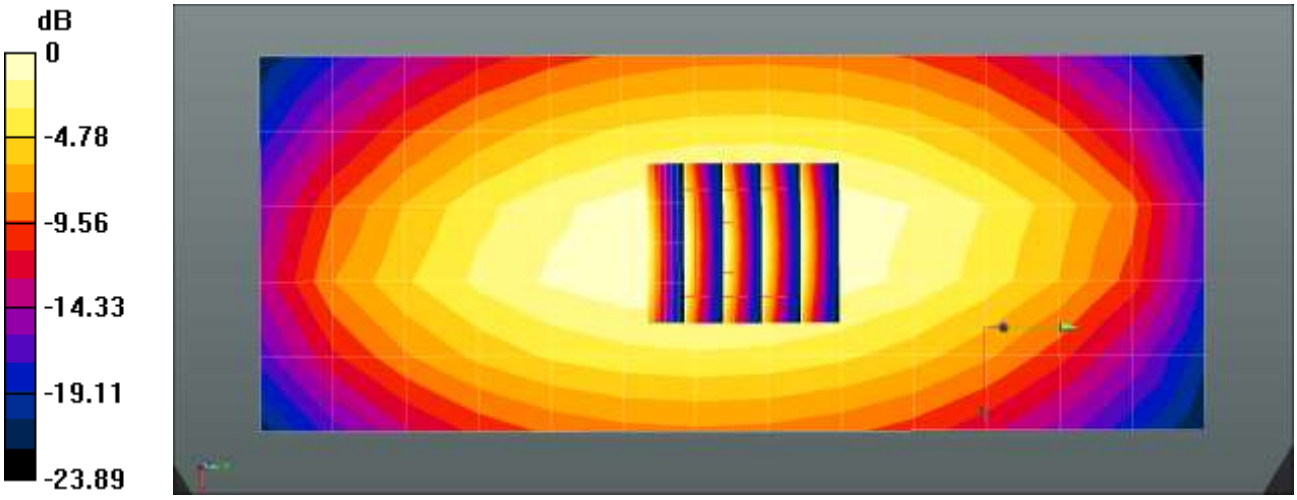
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.9 S/m; ε_r = 42.052; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.440 W/kg

Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.69 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.610 W/kg
SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.284 W/kg
Maximum value of SAR (measured) = 0.490 W/kg



0 dB = 0.440 W/kg = -3.56 dBW/kg

■ ■ **Verification Data (750 MHz Head) V2**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.3℃
Test Date:	06/18/2020

DUT: Dipole 750 MHz D750V3; Type: D750V3

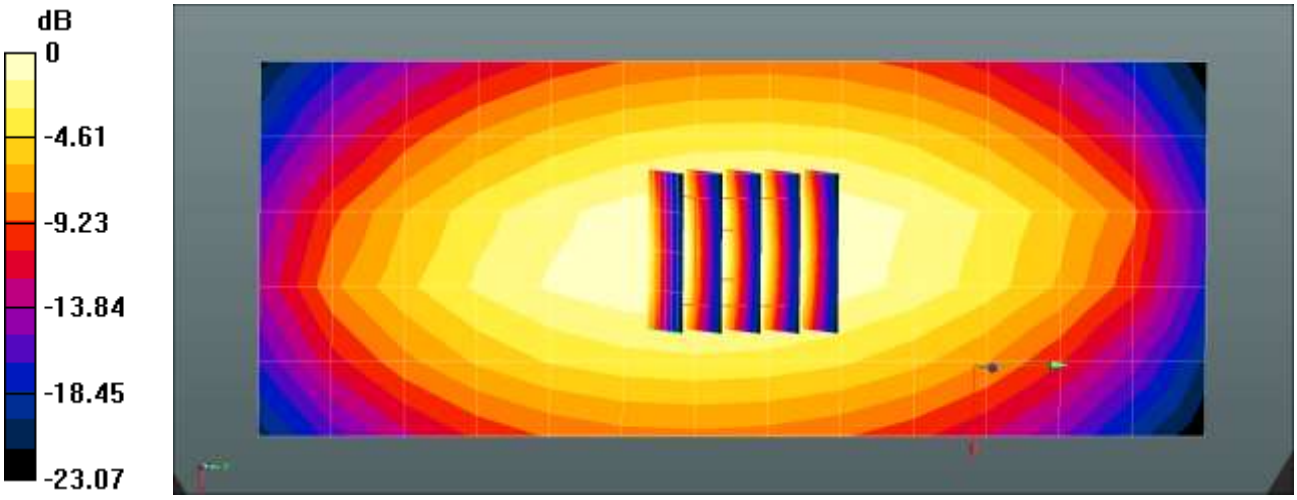
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.913 S/m; ε_r = 41.93; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.437 W/kg

Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.07 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.617 W/kg
SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.287 W/kg
Maximum value of SAR (measured) = 0.496 W/kg



0 dB = 0.437 W/kg = -3.60 dBW/kg

■ **Verification Data (750 ㎒ Head) V3**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0℃
Test Date:	06/19/2020

DUT: Dipole 750 MHz D750V3; Type: D750V3

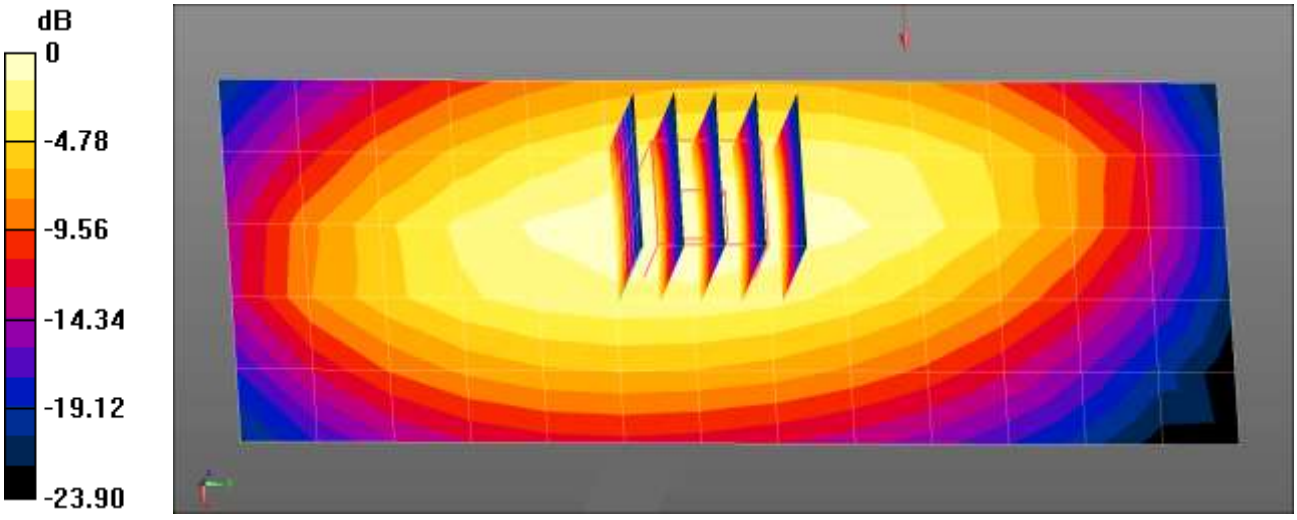
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.918 S/m; ε_r = 42.154; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1630; ConvF(7.22, 7.22, 7.22) @ 750 MHz;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2019-09-04
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.435 W/kg

Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.69 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.581 W/kg
SAR(1 g) = 0.402 W/kg; SAR(10 g) = 0.268 W/kg
Maximum value of SAR (measured) = 0.435 W/kg



0 dB = 0.435 W/kg = -3.62 dBW/kg

Verification Data (750 ㎒ Head) V4

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6℃
Test Date:	06/03/2020

DUT: Dipole 750 MHz D750V3; Type: D750V3

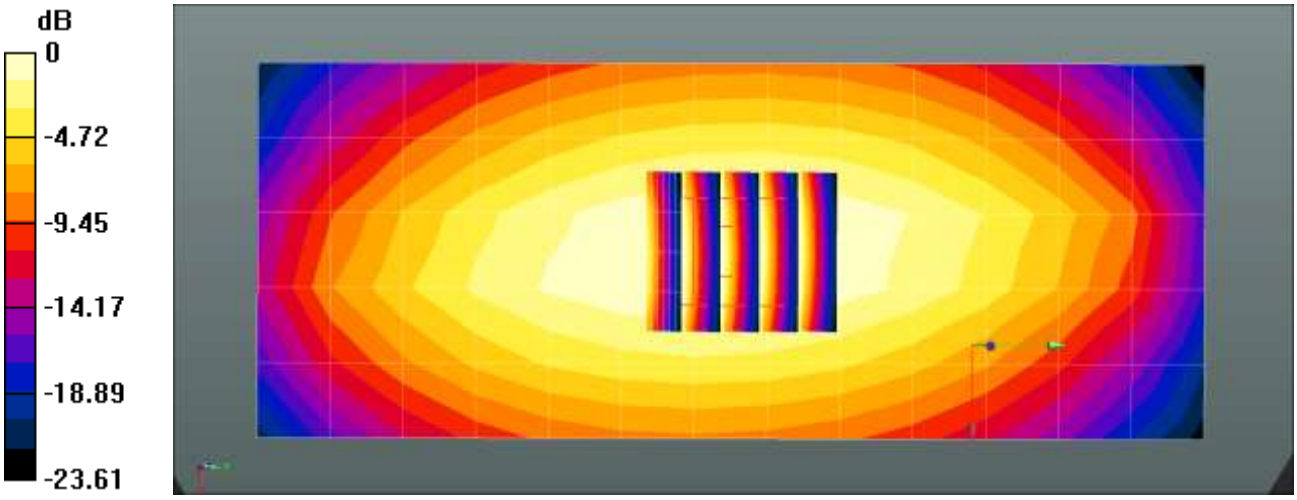
Communication System: UID 0, CW (0); Frequency: 750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 750 MHz; σ = 0.892 S/m; ε_r = 42.031; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.52, 6.52, 6.52); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/750MHz Head Verification/Area Scan (6x14x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.426 W/kg

Dipole/750MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.30 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 0.604 W/kg
SAR(1 g) = 0.418 W/kg; SAR(10 g) = 0.281 W/kg
Maximum value of SAR (measured) = 0.486 W/kg



0 dB = 0.426 W/kg = -3.71 dBW/kg

■ **Verification Data (835 ㎒ Head) V5**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.8 ℃
Test Date:	06/04/2020

DUT: Dipole 835 MHz D835V2; Type: D835V2

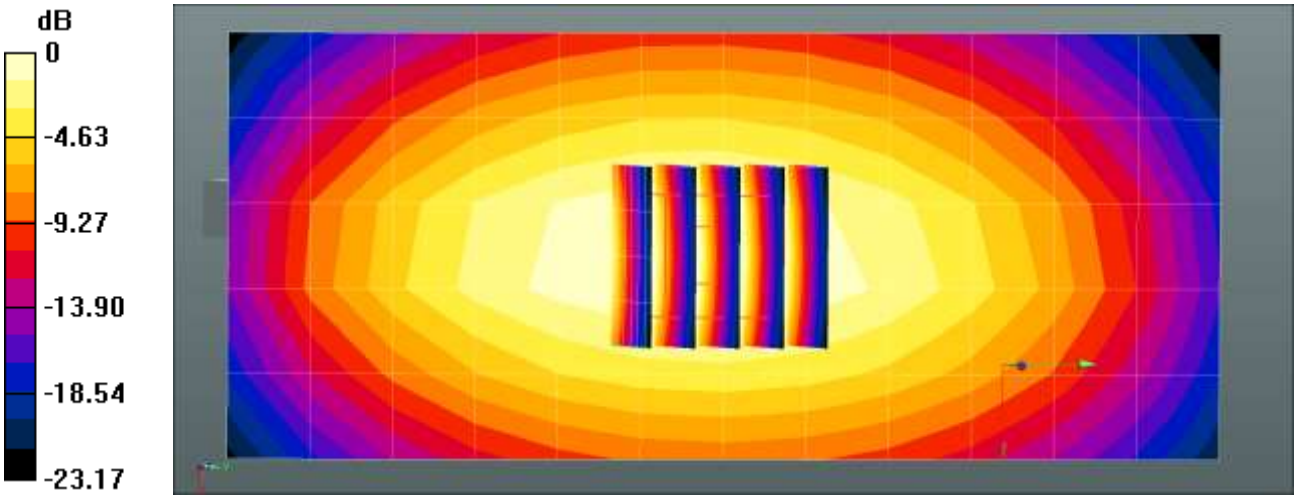
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.941 S/m; ε_r = 42.782; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.535 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.75 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.744 W/kg
SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.329 W/kg
Maximum value of SAR (measured) = 0.587 W/kg



0 dB = 0.535 W/kg = -2.72 dBW/kg

■ **Verification Data (835 ㎒ Head) V6**

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 20.4 ℃
Test Date: 06/19/2020

DUT: Dipole 835 MHz D835V2; Type: D835V2

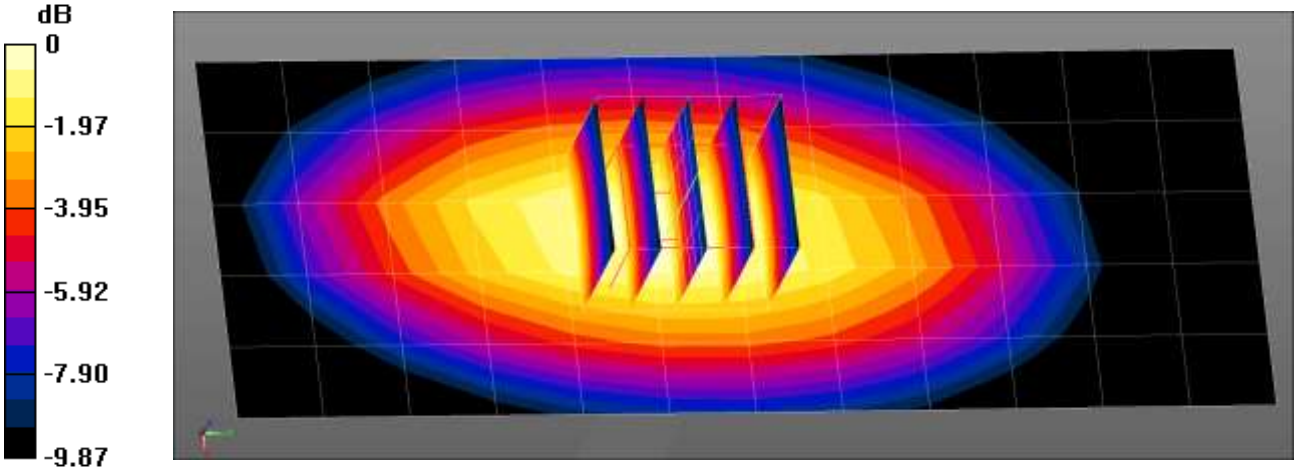
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.939 S/m; ε_r = 41.952; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22) @ 835 MHz;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.489 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.13 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.666 W/kg
SAR(1 g) = 0.468 W/kg; SAR(10 g) = 0.318 W/kg
Maximum value of SAR (measured) = 0.540 W/kg



0 dB = 0.540 W/kg = -2.68 dBW/kg

■ **Verification Data (835 ㎒ Head) V7**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.6 ℃
Test Date:	06/03/2020

DUT: Dipole 835 MHz D835V2; Type: D835V2

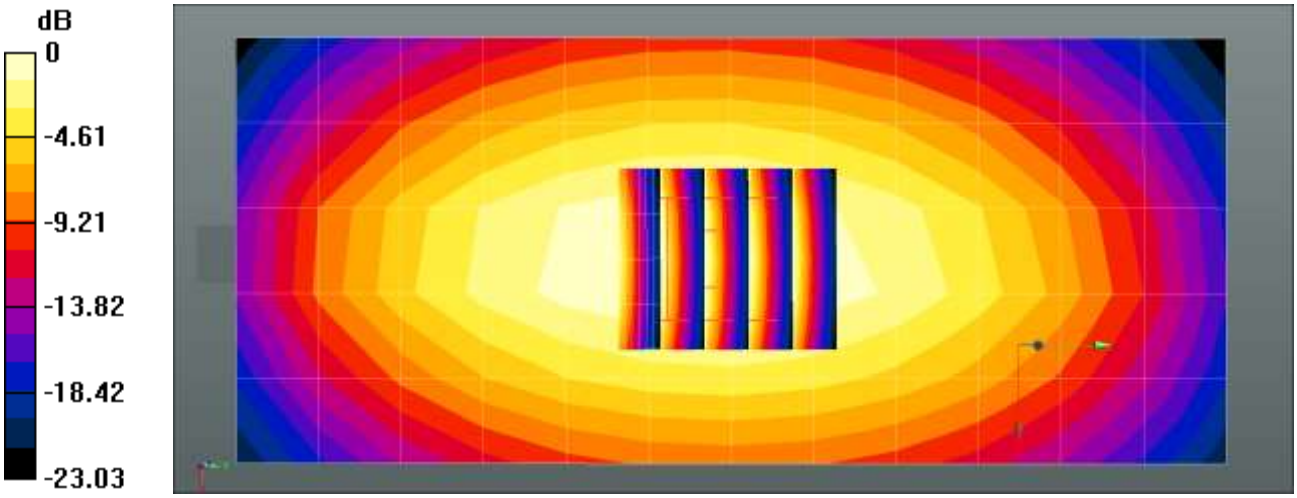
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.941 S/m; ε_r = 42.739; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(6.22, 6.22, 6.22); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.534 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.62 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.751 W/kg
SAR(1 g) = 0.506 W/kg; SAR(10 g) = 0.331 W/kg
Maximum value of SAR (measured) = 0.593 W/kg



0 dB = 0.534 W/kg = -2.72 dBW/kg

■ **Verification Data (835 ㎒ Head) V8**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.8 ℃
Test Date:	06/15/2020

DUT: Dipole 835 MHz D835V2; Type: D835V2

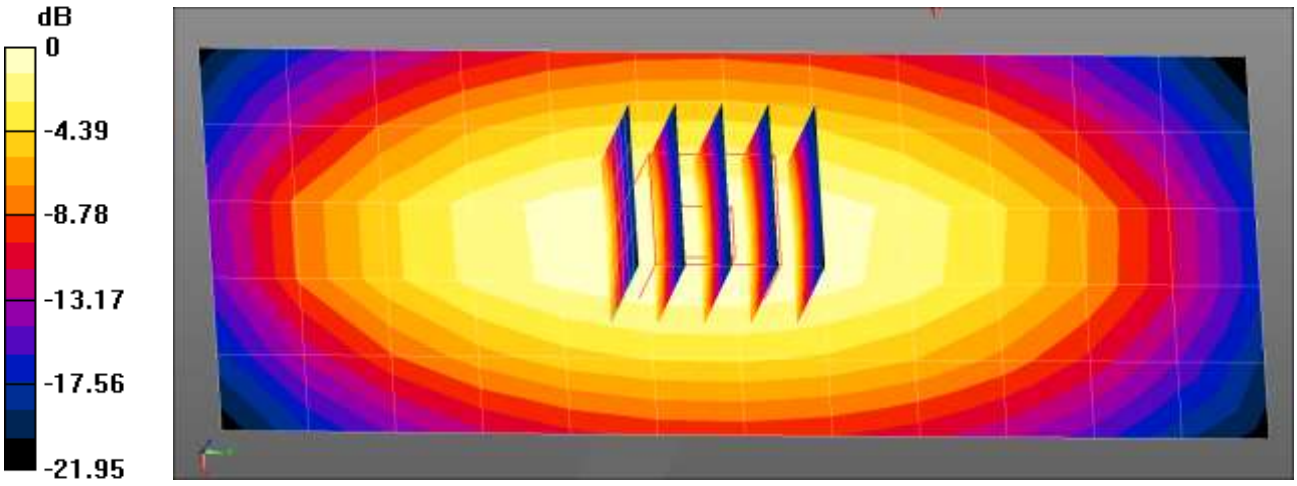
Communication System: UID 0, CW (0); Frequency: 835 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 835 MHz; σ = 0.916 S/m; ε_r = 42.397; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ET3DV6 - SN1630; ConvF(6.96, 6.96, 6.96) @ 835 MHz;
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn868; Calibrated: 2019-09-04
- Phantom: SAM with CRP v5.0_2020_06_09
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/835MHz Head Verification/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.472 W/kg

Dipole/835MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.75 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.738 W/kg
SAR(1 g) = 0.502 W/kg; SAR(10 g) = 0.327 W/kg
Maximum value of SAR (measured) = 0.545 W/kg



0 dB = 0.472 W/kg = -3.26 dBW/kg

■ **Verification Data (1 800 ㎒ Head)** **V9**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	06/05/2020

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2

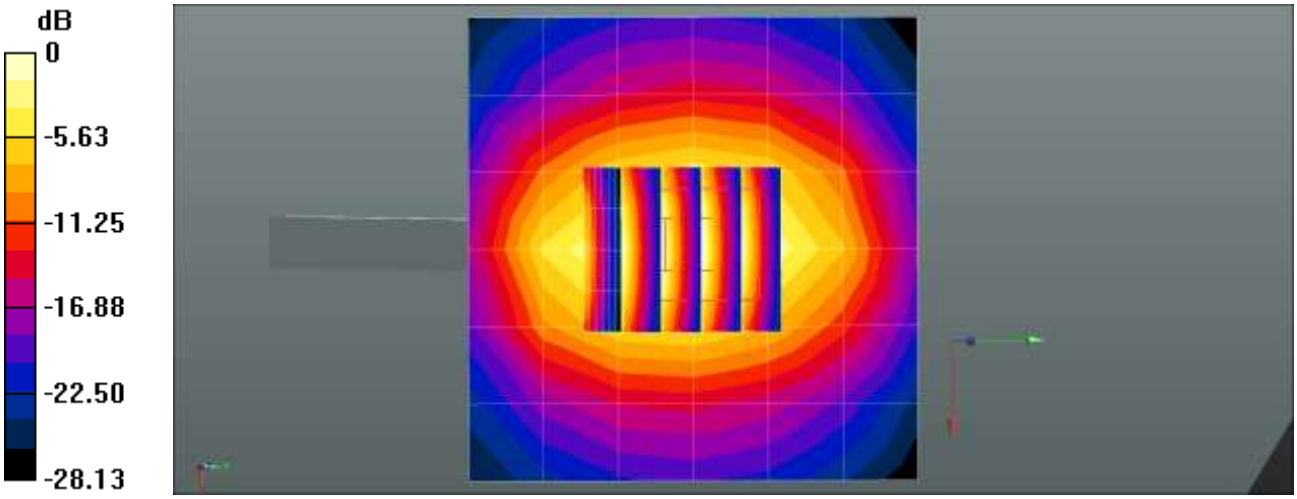
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.379 S/m; ε_r = 39.988; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1800MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.37 W/kg

Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 42.53 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 3.33 W/kg
SAR(1 g) = 1.88 W/kg; SAR(10 g) = 1 W/kg
Maximum value of SAR (measured) = 2.33 W/kg



0 dB = 2.37 W/kg = 3.74 dBW/kg

■ **Verification Data (1 800 ㎒ Head) V10**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	06/11/2020

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2

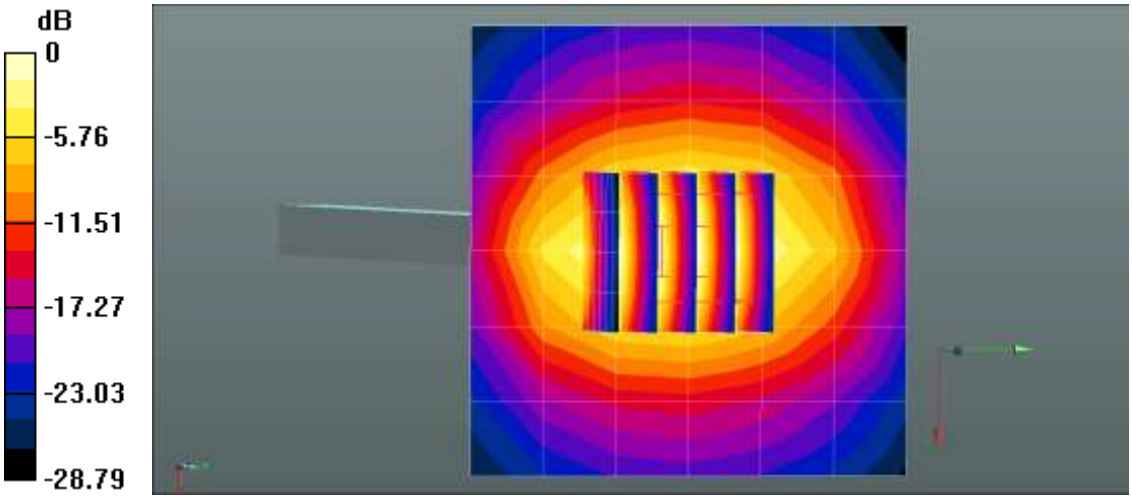
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.374 S/m; ε_r = 39.956; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1800MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.34 W/kg

Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 42.54 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.27 W/kg
SAR(1 g) = 1.85 W/kg; SAR(10 g) = 0.989 W/kg
Maximum value of SAR (measured) = 2.30 W/kg



0 dB = 2.34 W/kg = 3.69 dBW/kg

■ **Verification Data (1 800 ㎒ Head) V11**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.3 ℃
Test Date:	06/16/2020

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2

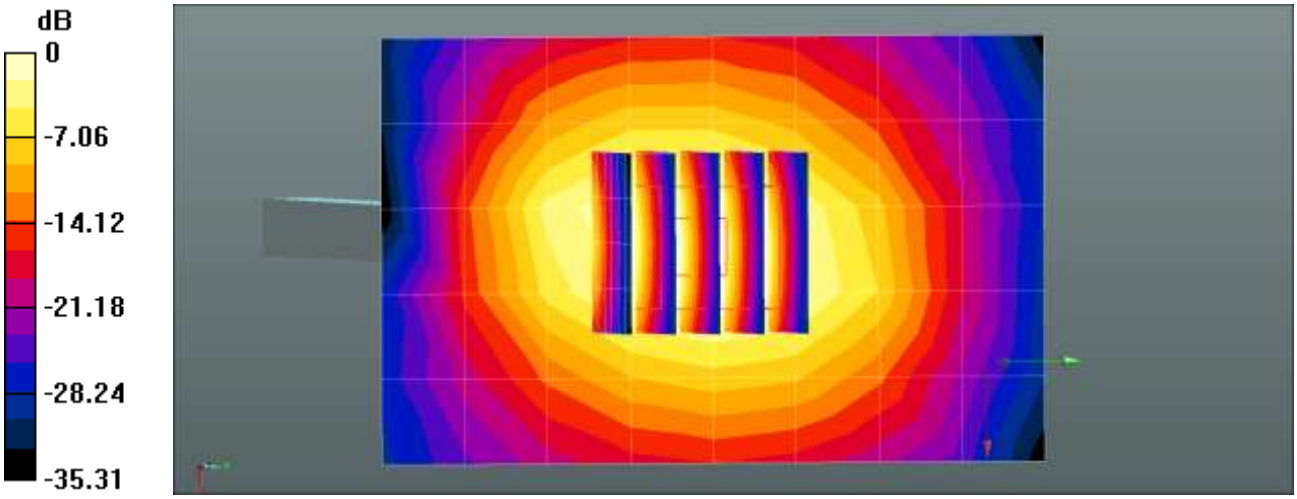
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.378 S/m; ε_r = 40.008; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.34, 5.34, 5.34); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.74 W/kg

Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 42.98 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.40 W/kg
SAR(1 g) = 1.91 W/kg; SAR(10 g) = 1.01 W/kg
Maximum value of SAR (measured) = 2.40 W/kg



0 dB = 1.74 W/kg = 2.40 dBW/kg

■ **Verification Data (1 800 ㎒ Head)** **V12**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	07/10/2020

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

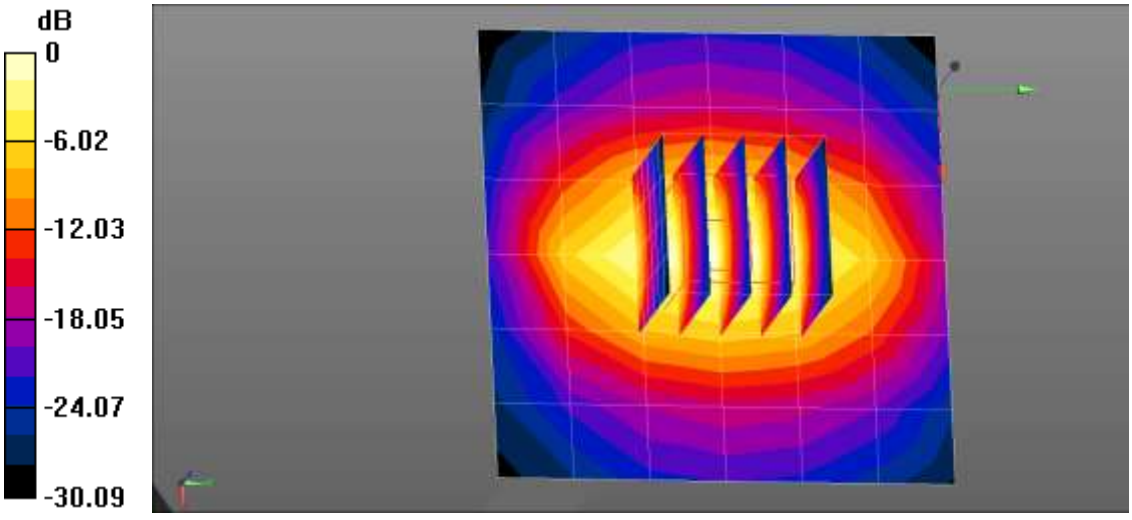
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.379 S/m; ε_r = 40.04; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7370; ConvF(8.43, 8.43, 8.43) @ 1800 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn648; Calibrated: 2020-05-25
- Phantom: Twin-SAM V4.0 Right
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1 800 MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 3.12 W/kg

Dipole/1 800 MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 49.17 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.80 W/kg
SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.02 W/kg
Maximum value of SAR (measured) = 3.15 W/kg



0 dB = 3.12 W/kg = 4.94 dBW/kg

■ **Verification Data (1 800 ㎒ Head)** **V13**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.9 ℃
Test Date:	07/10/2020

DUT: Dipole 1800 MHz D1800V2; Type: D1800V2

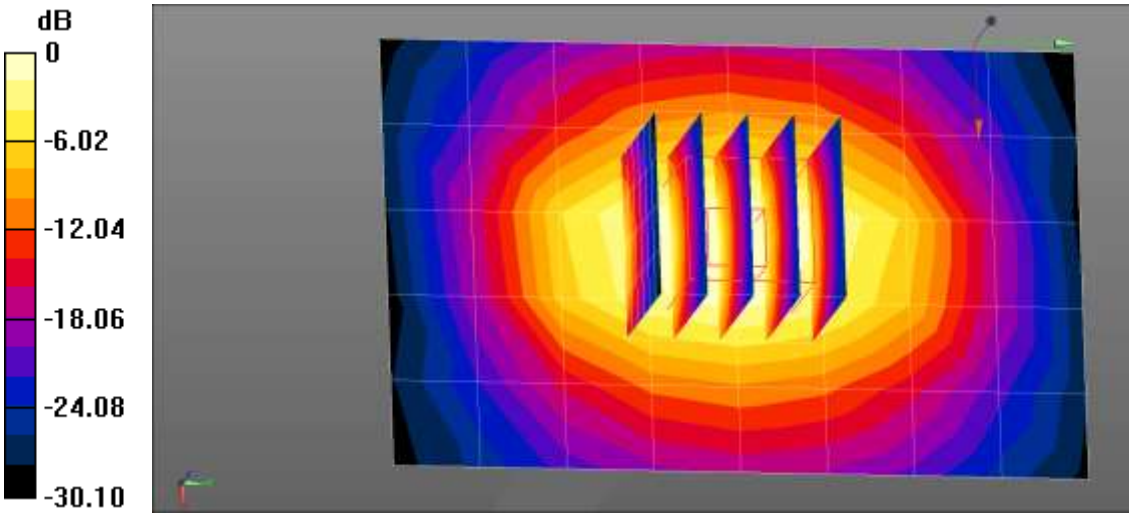
Communication System: UID 0, CW (0); Frequency: 1800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1800 MHz; σ = 1.373 S/m; ε_r = 39.984; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.62, 8.62, 8.62) @ 1800 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1800MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.26 W/kg

Dipole/1800MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.78 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.52 W/kg
SAR(1 g) = 1.89 W/kg; SAR(10 g) = 1 W/kg
Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg

■ **Verification Data (1 900 ㎒ Head) V14**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	06/05/2020

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

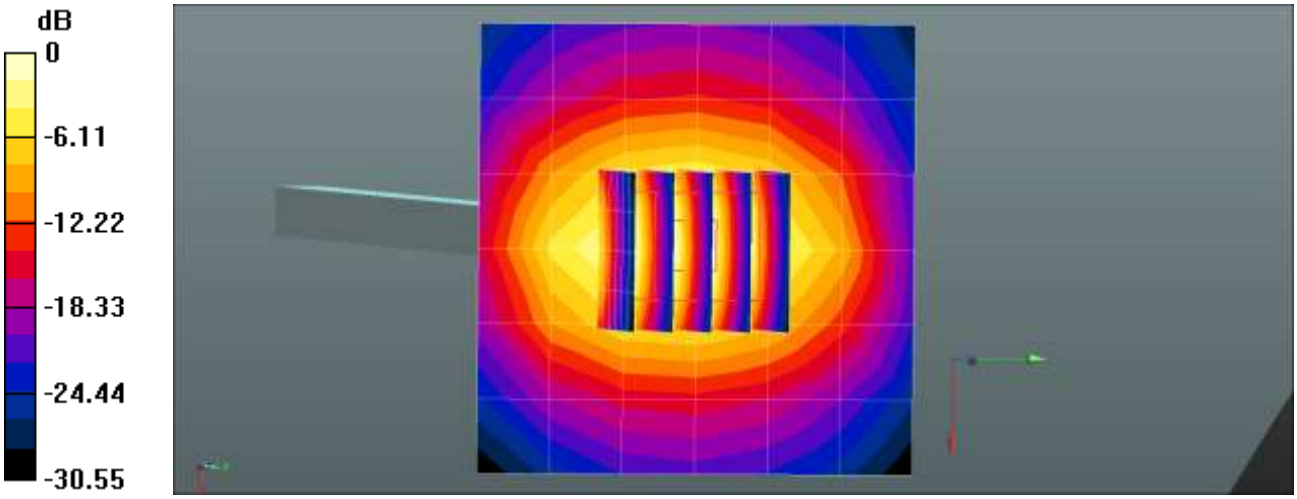
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.395 S/m; ε_r = 39.144; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.44 W/kg

Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 43.24 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.44 W/kg
SAR(1 g) = 1.92 W/kg; SAR(10 g) = 1 W/kg
Maximum value of SAR (measured) = 2.42 W/kg



0 dB = 2.44 W/kg = 3.87 dBW/kg

■ **Verification Data (1 900 ㎒ Head) V15**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	06/12/2020

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

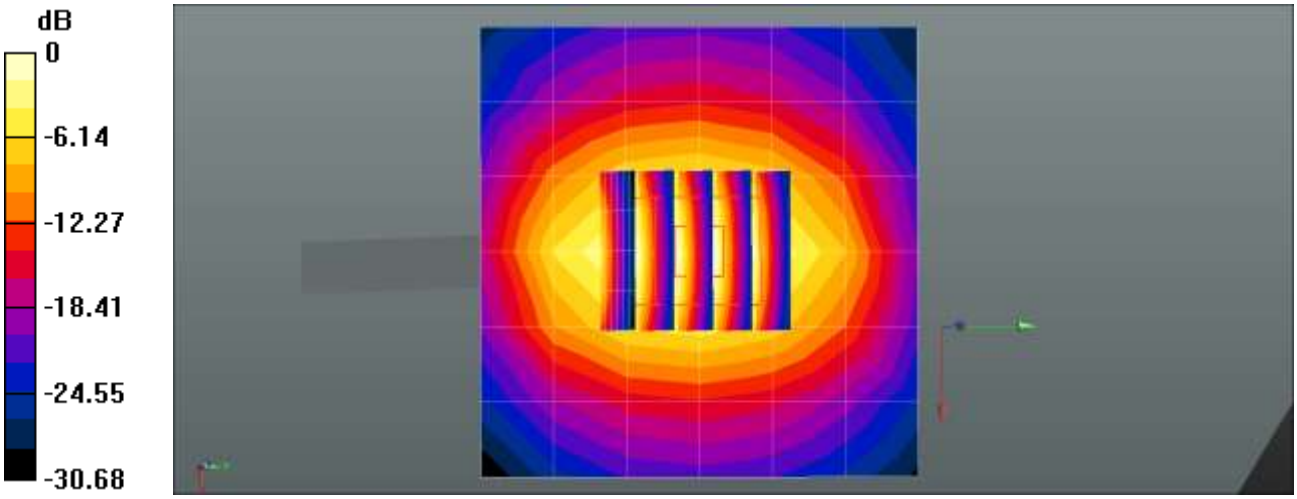
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.465 S/m; ε_r = 39.351; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1900MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.73 W/kg

Dipole/1900MHz Head Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 44.47 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.93 W/kg
SAR(1 g) = 2.15 W/kg; SAR(10 g) = 1.11 W/kg
Maximum value of SAR (measured) = 2.74 W/kg



0 dB = 2.73 W/kg = 4.37 dBW/kg

■ **Verification Data (1 900 ㎒ Head) V16**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/24/2020

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

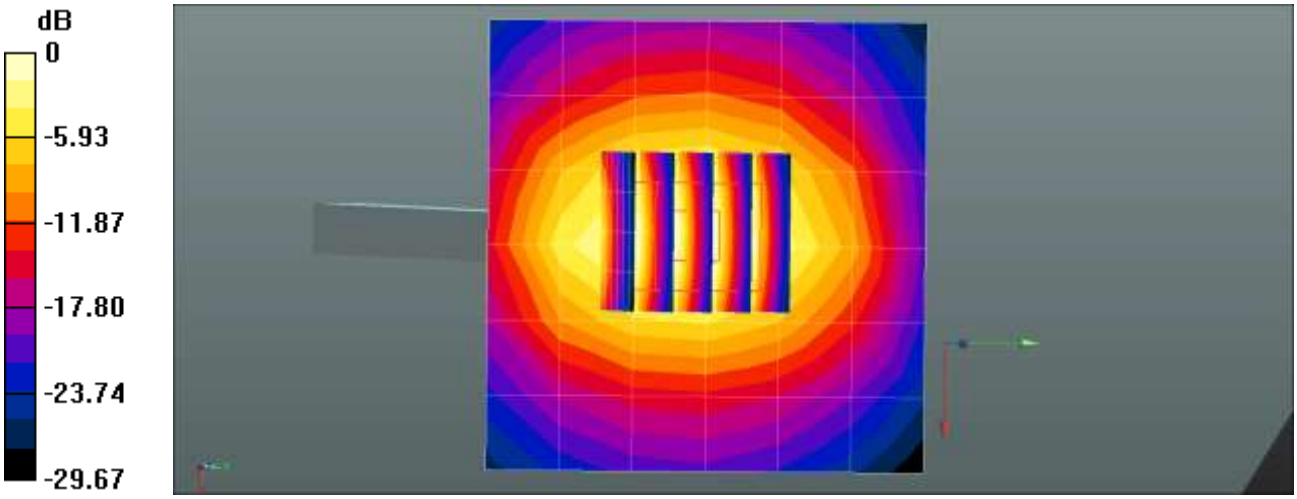
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.404 S/m; ε_r = 40.3; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3076; ConvF(5.1, 5.1, 5.1); Calibrated: 2019-07-23;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1900MHz Head Verification(NR n25)/Area Scan (7x7x1): Measurement grid:
dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.26 W/kg

Dipole/1900MHz Head Verification(NR n25)/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
dx=8mm, dy=8mm, dz=5mm
Reference Value = 41.76 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 3.41 W/kg
SAR(1 g) = 1.9 W/kg; SAR(10 g) = 1 W/kg
Maximum value of SAR (measured) = 2.41 W/kg



0 dB = 2.26 W/kg = 3.54 dBW/kg

■ **Verification Data (1 900 ㎒ Head)** **V17**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.6 ℃
Test Date:	07/09/2020

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2

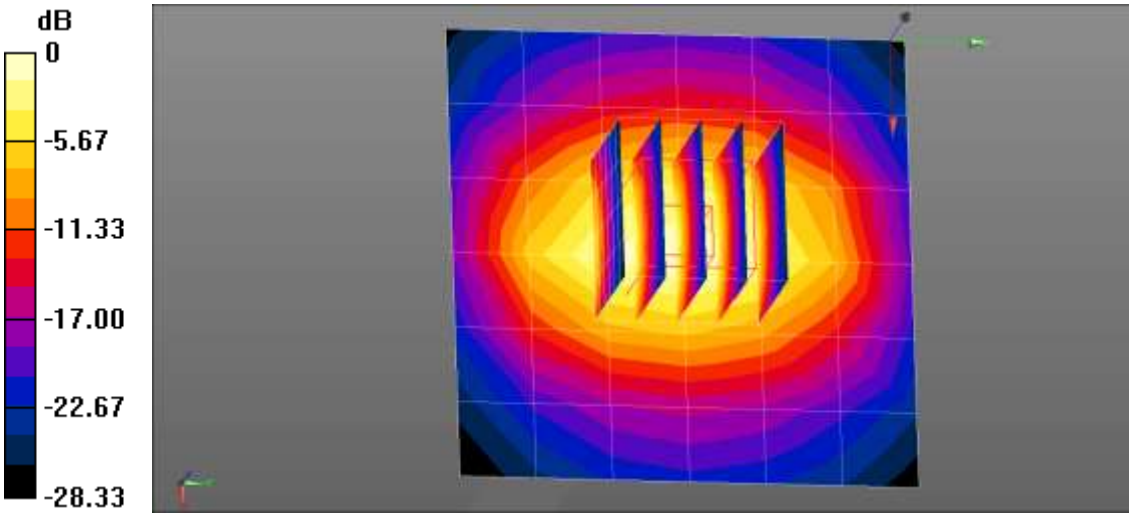
Communication System: UID 0, CW (0); Frequency: 1900 MHz;Duty Cycle: 1:1
Medium parameters used: f = 1900 MHz; σ = 1.439 S/m; ε_r = 38.998; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(8.31, 8.31, 8.31) @ 1900 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0_Front
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/1900MHz Head Verification(NR n25)/Area Scan (7x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 2.84 W/kg

Dipole/1900MHz Head Verification(NR n25)/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 45.90 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 3.64 W/kg
SAR(1 g) = 1.92 W/kg; SAR(10 g) = 0.997 W/kg
Maximum value of SAR (measured) = 3.04 W/kg



0 dB = 2.84 W/kg = 4.53 dBW/kg

■ **Verification Data (2 300 ㎒ Head)** **V18**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	06/18/2020

DUT: Dipole 2300 MHz D2300V2; Type: D2300V3

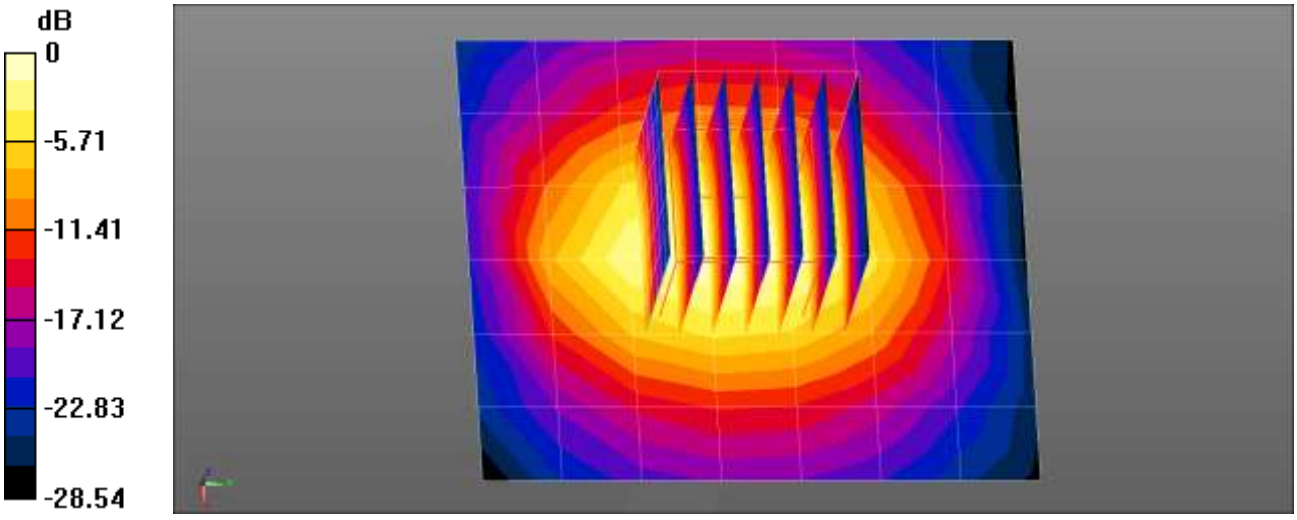
Communication System: UID 0, CW (0); Frequency: 2300 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2300 MHz; σ = 1.642 S/m; ε_r = 39.959; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.91, 7.91, 7.91) @ 2300 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2300MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.94 W/kg

Dipole/2300MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.20 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 5.24 W/kg
SAR(1 g) = 2.42 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 4.09 W/kg



0 dB = 3.94 W/kg = 5.96 dBW/kg

■ **Verification Data (2 450 ㎒ Head)** **V19**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	06/18/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

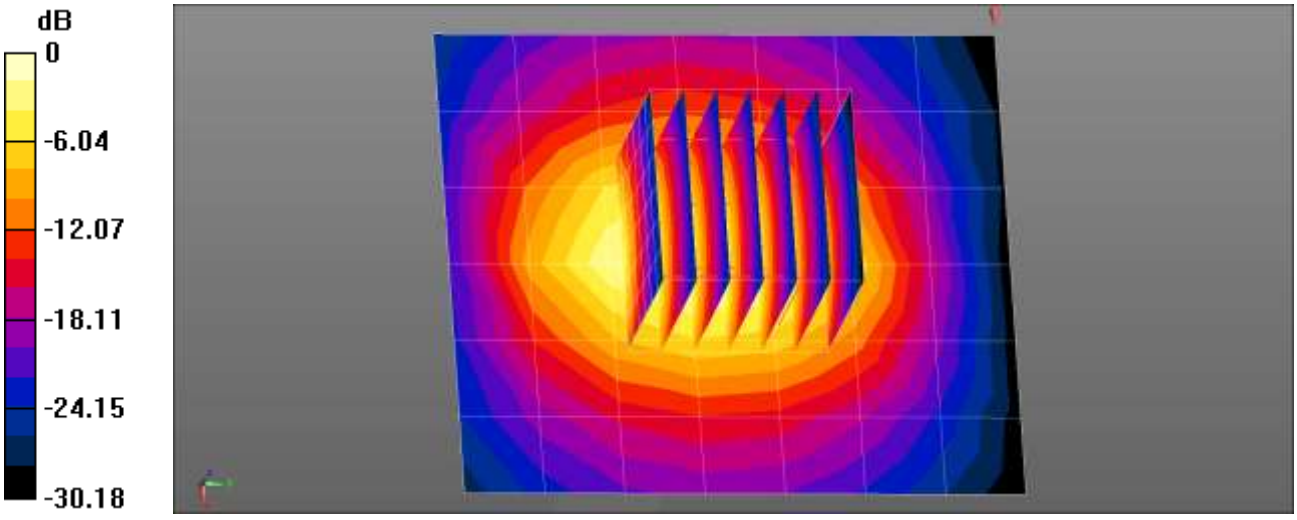
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.818 S/m; ε_r = 39.412; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.28 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.22 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.54 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 4.31 W/kg



0 dB = 4.28 W/kg = 6.31 dBW/kg

■ **Verification Data (2 450 ㎒ Head)** **V20**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	06/19/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

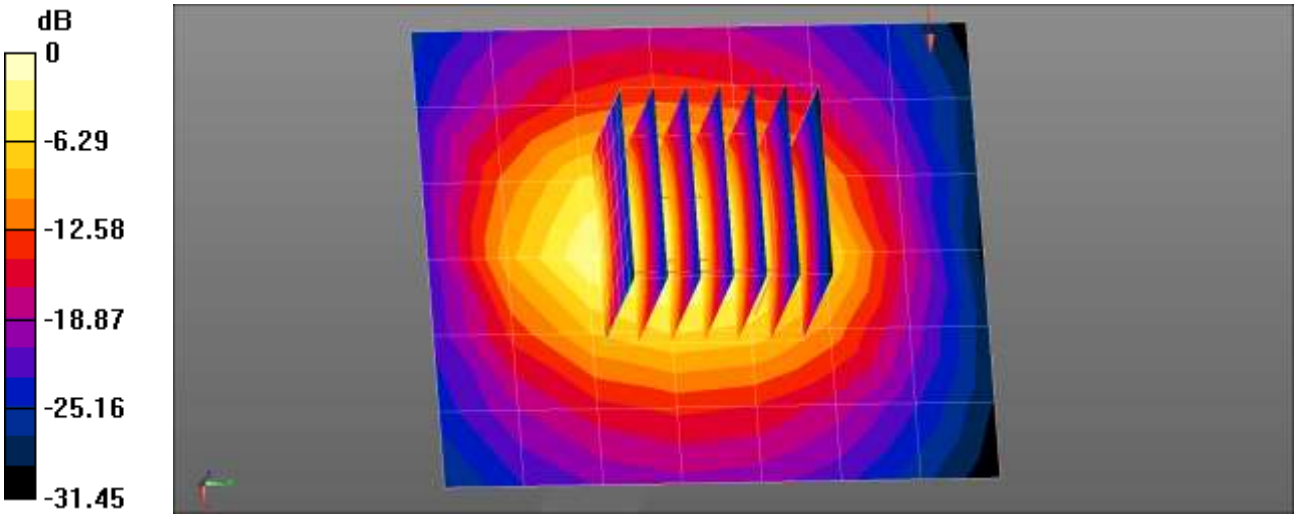
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.81 S/m; ε_r = 39.906; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.23 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.21 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 5.58 W/kg
SAR(1 g) = 2.52 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 4.34 W/kg



0 dB = 4.23 W/kg = 6.26 dBW/kg

■ **Verification Data (2 450 ㎒ Head)** **V21**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/29/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

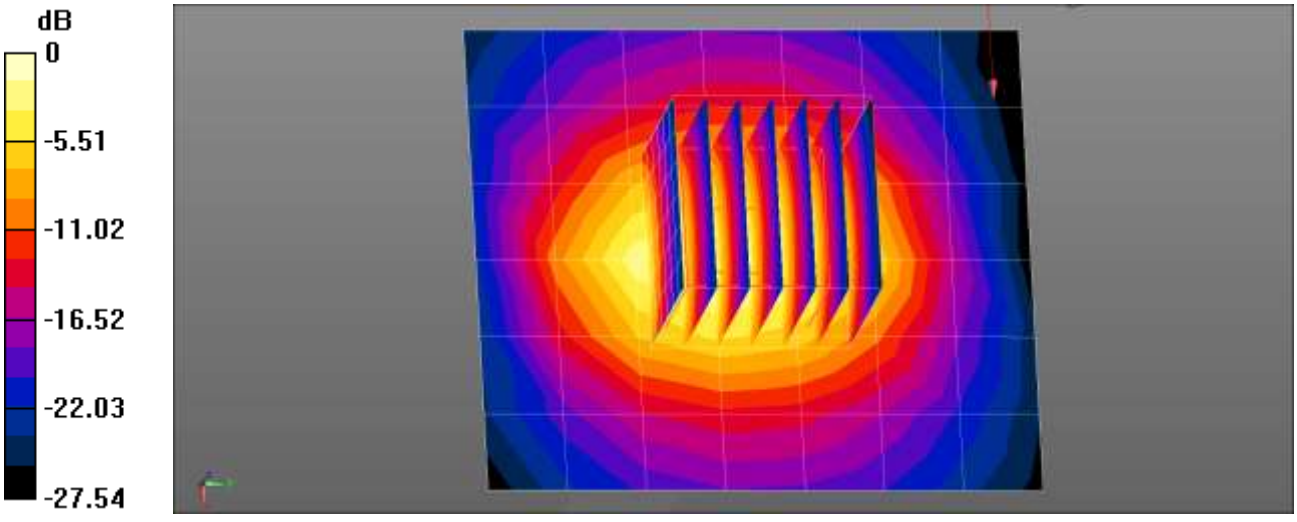
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.807 S/m; ε_r = 39.94; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.27 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.57 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 5.57 W/kg
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 4.33 W/kg



0 dB = 4.27 W/kg = 6.30 dBW/kg

■ **Verification Data (2 450 MHz Head) V22**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/29/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.816 S/m; ε_r = 39.906; ρ = 1000 kg/m^3
Phantom section: Flat Section

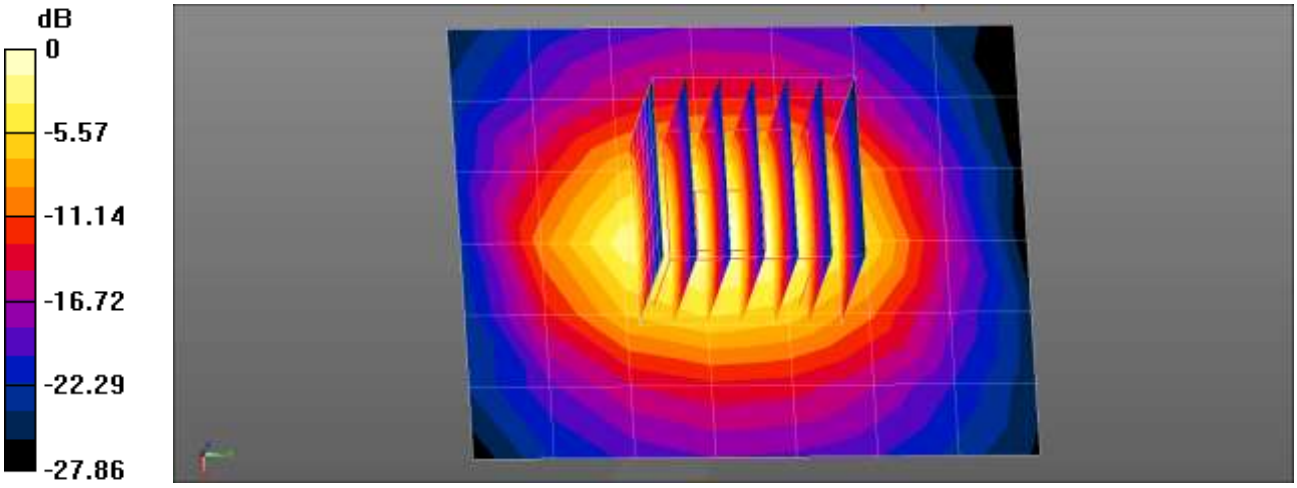
DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 4.30 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.50 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 5.57 W/kg
SAR(1 g) = 2.5 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 4.35 W/kg



0 dB = 4.30 W/kg = 6.34 dBW/kg

■ **Verification Data (2 450 ㎒ Head) V23**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/30/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

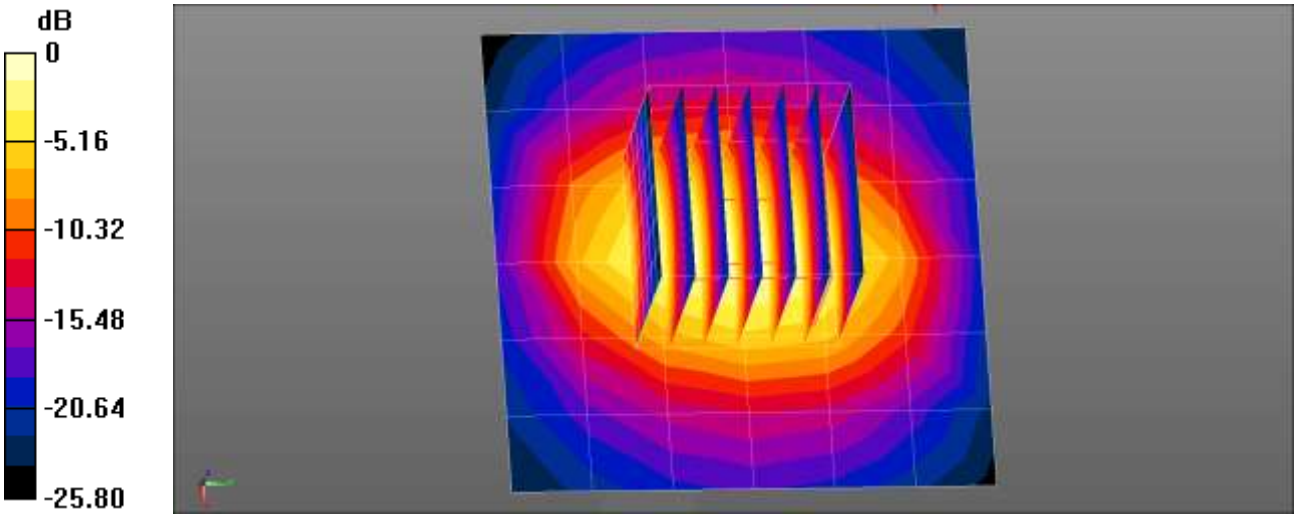
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2450 MHz; σ = 1.795 S/m; ε_r = 38.448; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.65, 7.65, 7.65) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.48 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.24 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 5.83 W/kg
SAR(1 g) = 2.59 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.56 W/kg



0 dB = 4.48 W/kg = 6.52 dBW/kg

Verification Data (2 450 MHz Head) V24

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.9 ℃
Test Date:	06/22/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

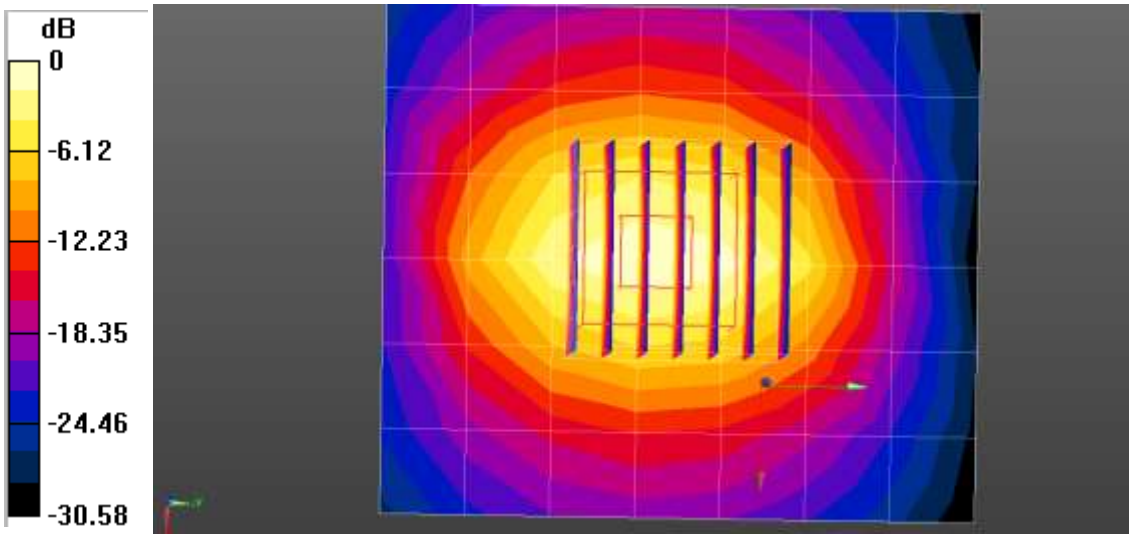
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.811 S/m; ε_r = 39.443; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.27 W/kg

Dipole/2450MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 50.18 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 5.60 W/kg
SAR(1 g) = 2.53 W/kg; SAR(10 g) = 1.15 W/kg
Smallest distance from peaks to all points 3 dB below = 8.9 mm
Ratio of SAR at M2 to SAR at M1 = 45%
Maximum value of SAR (measured) = 4.35 W/kg



0 dB = 4.27 W/kg = 6.31 dBW/kg

Verification Data (2 450 ㎒ Head) V25

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.4 ℃
Test Date:	07/10/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

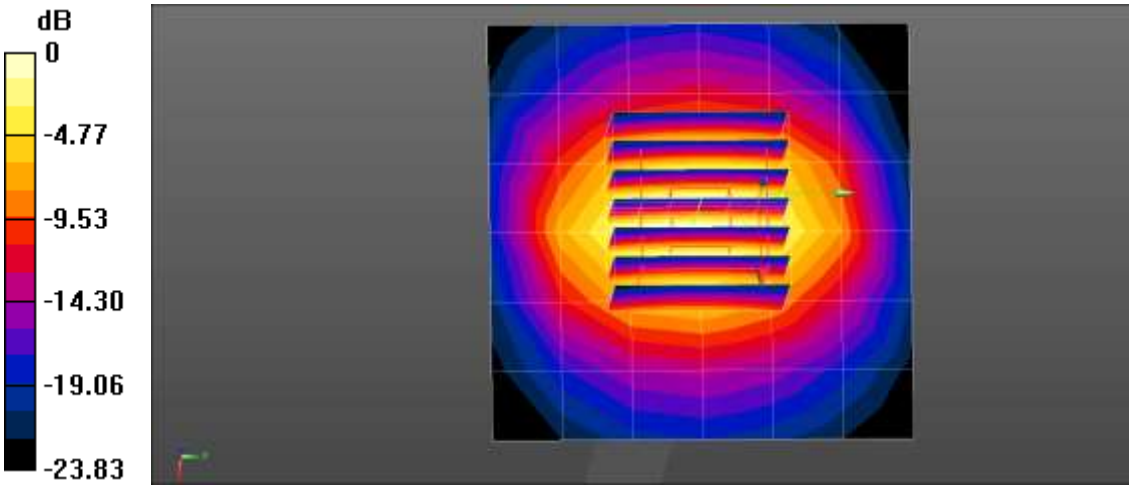
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.815 S/m; ε_r = 39.916; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.49 W/kg

Dipole/2450MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.77 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 5.77 W/kg
SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.2 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 45.4%
Maximum value of SAR (measured) = 4.59 W/kg



0 dB = 4.59 W/kg = 6.62 dBW/kg

Verification Data (2 450 MHz Head) V26

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.4
Test Date:	07/10/2020

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2

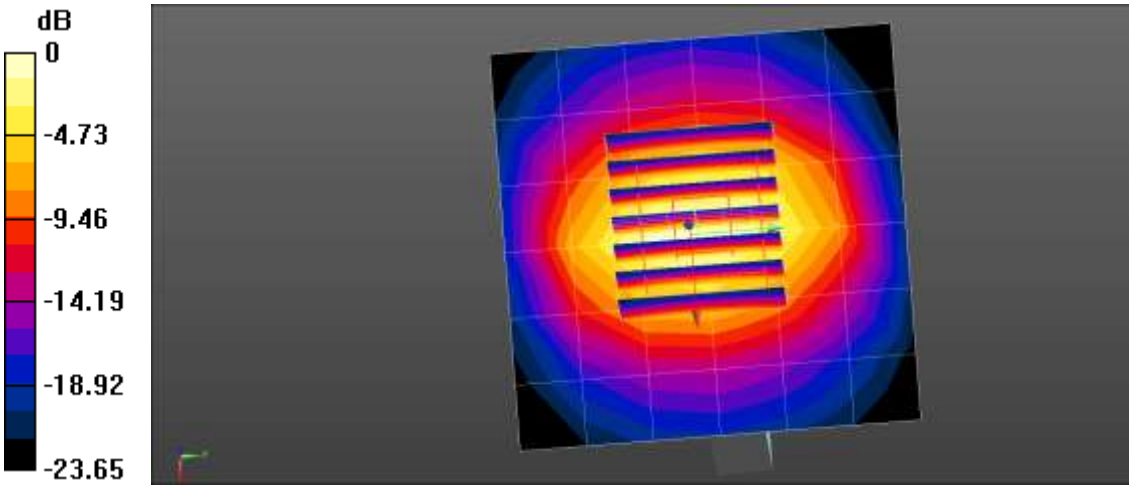
Communication System: UID 0, CW (0); Frequency: 2450 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 2450 MHz; σ = 1.808 S/m; ε_r = 39.915; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.6, 7.6, 7.6) @ 2450 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0(Left-Left)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2450MHz Verification/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.53 W/kg

Dipole/2450MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.38 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 5.77 W/kg
SAR(1 g) = 2.66 W/kg; SAR(10 g) = 1.21 W/kg
Smallest distance from peaks to all points 3 dB below = 9 mm
Ratio of SAR at M2 to SAR at M1 = 45.5%
Maximum value of SAR (measured) = 4.58 W/kg



0 dB = 4.58 W/kg = 6.61 dBW/kg

■ **Verification Data (2 600 ㎒ Head)** **V27**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.8 ℃
Test Date:	07/08/2020

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

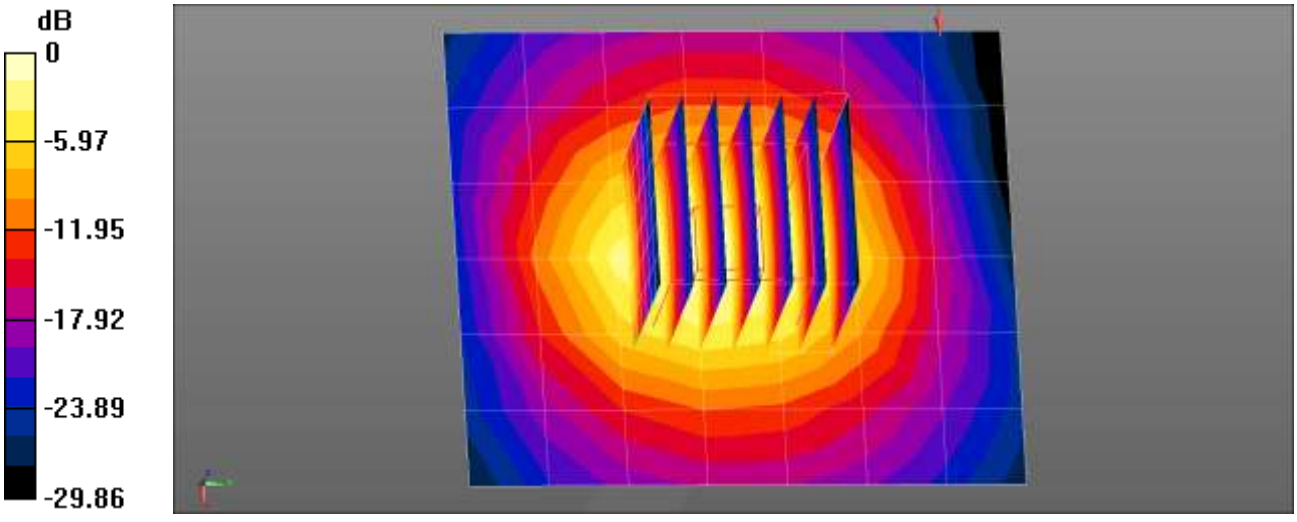
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.947 S/m; ε_r = 37.856; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.49, 7.49, 7.49) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2600MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.69 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.69 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 6.23 W/kg
SAR(1 g) = 2.73 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 4.85 W/kg



0 dB = 4.69 W/kg = 6.71 dBW/kg

■ **Verification Data (2 600 ㎒ Head) V28**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.4℃
Test Date:	06/10/2020

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

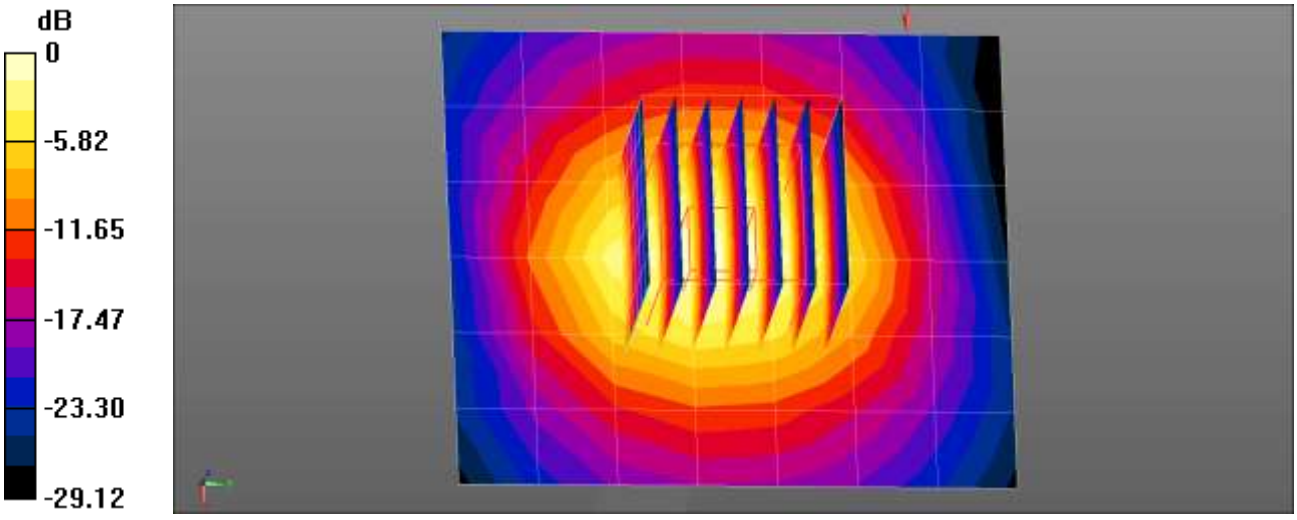
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.943 S/m; ε_r = 37.732; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3903; ConvF(7.49, 7.49, 7.49) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn869; Calibrated: 2019-09-19
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2600MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.73 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.68 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 6.25 W/kg
SAR(1 g) = 2.74 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 4.87 W/kg



0 dB = 4.73 W/kg = 6.75 dBW/kg

■ **Verification Data (2 600 ㎒ Head)** **V29**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.0 ℃
Test Date:	07/07/2020

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

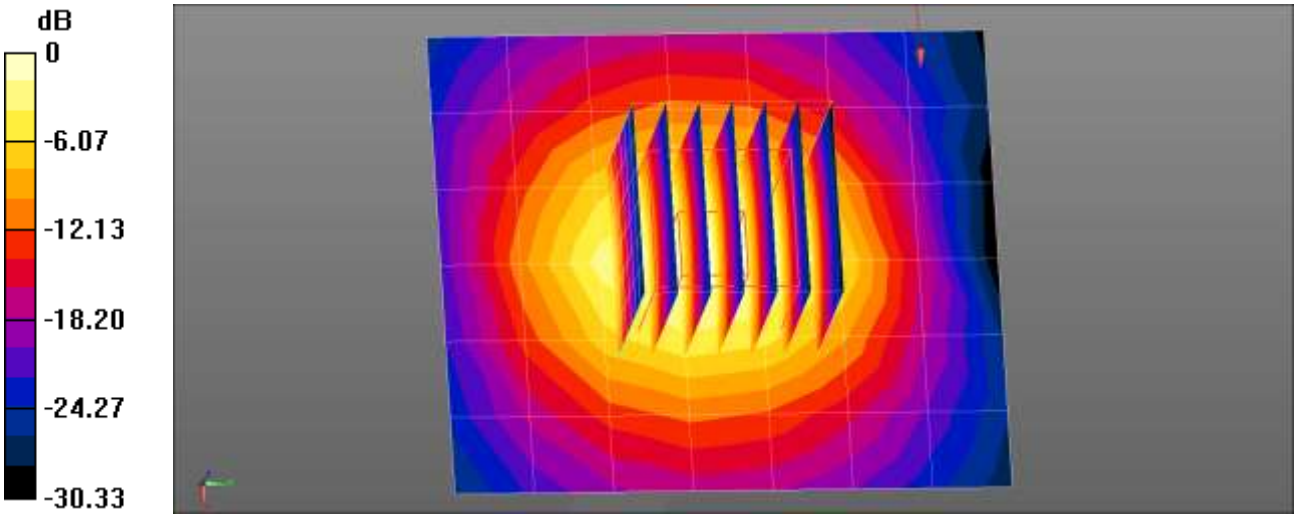
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.941 S/m; ε_r = 37.805; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.41, 7.41, 7.41) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2600MHz Head Verification/Area Scan (7x8x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.91 W/kg

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 54.21 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 6.57 W/kg
SAR(1 g) = 2.88 W/kg; SAR(10 g) = 1.27 W/kg
Maximum value of SAR (measured) = 5.12 W/kg



0 dB = 4.91 W/kg = 6.91 dBW/kg

■ **Verification Data (2 600 ㎒ Head)** **V30**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.5 ℃
Test Date:	07/08/2020

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

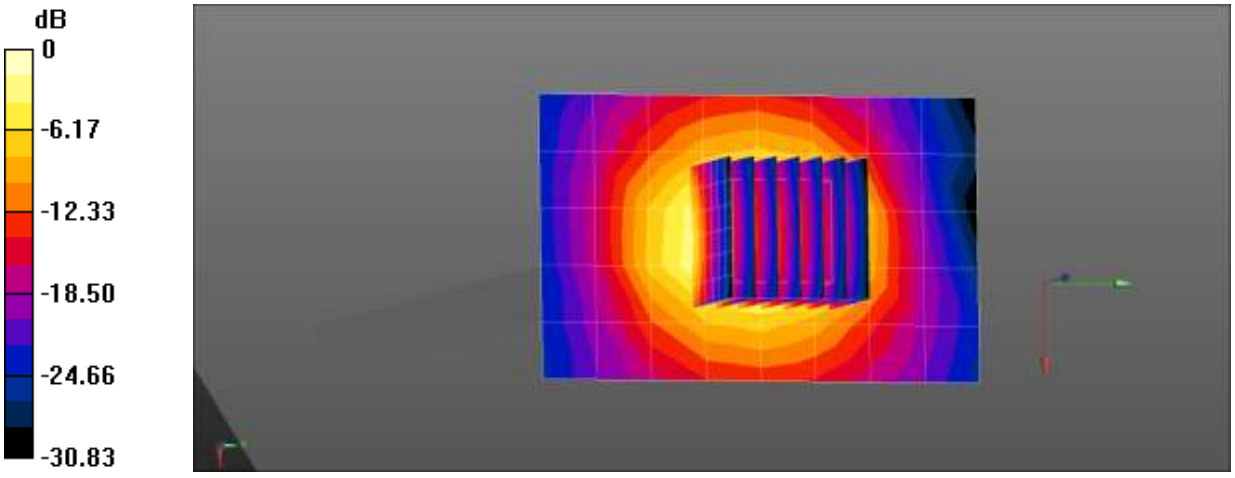
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.944 S/m; ε_r = 37.843; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(7.41, 7.41, 7.41); Calibrated: 2019-09-27;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0(Left-Left)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.23 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 6.24 W/kg
SAR(1 g) = 2.67 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.78 W/kg

Dipole/2600MHz Head Verification/Area Scan (6x9x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 3.51 W/kg



0 dB = 4.78 W/kg = 6.80 dBW/kg

■ **Verification Data (5 250 ㎒ Head) V31**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

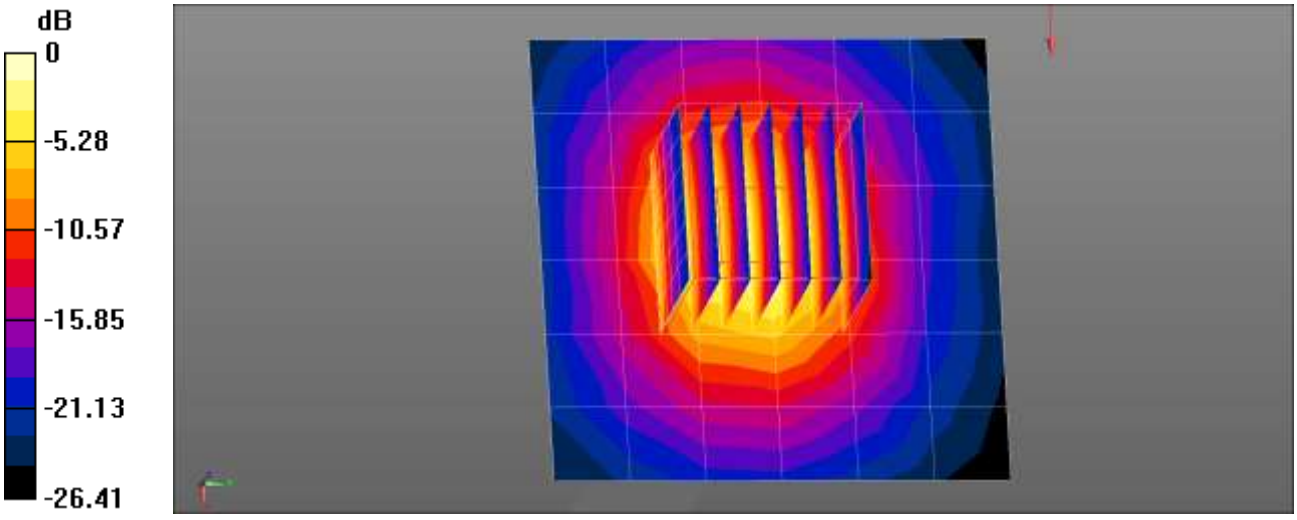
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.642 S/m; ε_r = 36.673; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.44 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.79 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.14 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 9.44 W/kg = 9.75 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V32**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

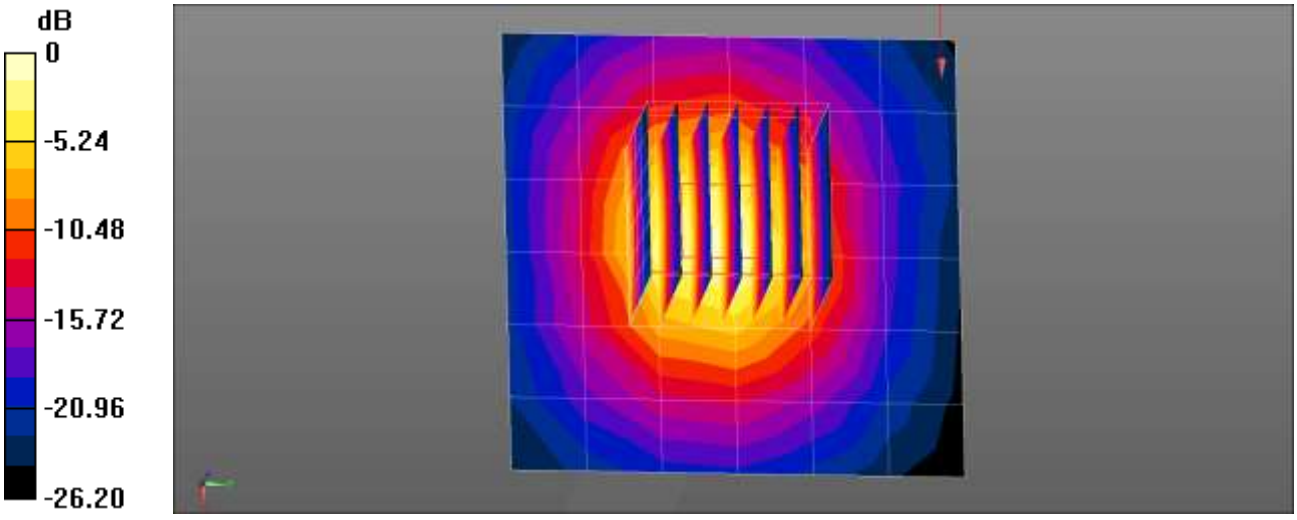
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.767 S/m; ε_r = 37.047; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 8.94 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 47.56 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 18.3 W/kg
SAR(1 g) = 3.88 W/kg; SAR(10 g) = 1.1 W/kg
Maximum value of SAR (measured) = 9.98 W/kg



0 dB = 8.94 W/kg = 9.51 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V33**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5250MHz Head Verification

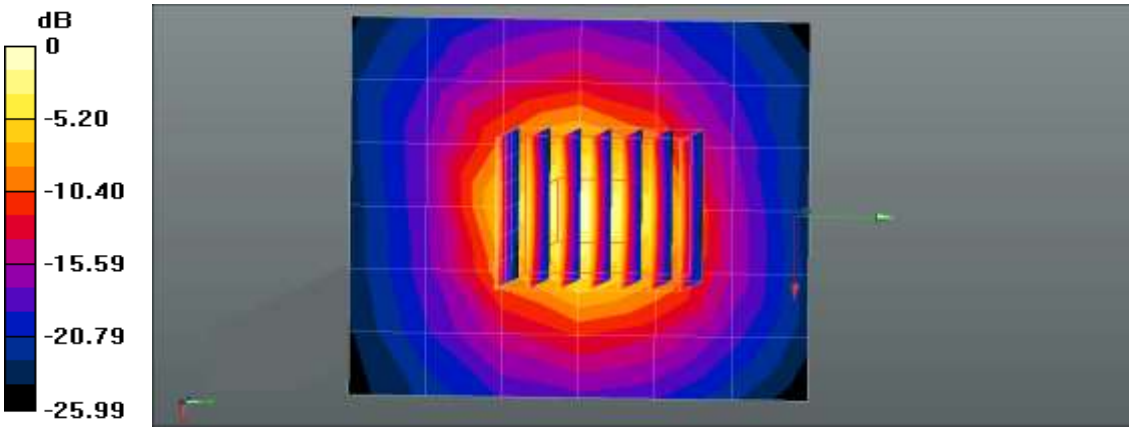
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.623 S/m; ε_r = 36.702; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.18, 5.18, 5.18) @ 5250 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.0 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 51.24 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 3.98 W/kg; SAR(10 g) = 1.14 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 63.9%
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.0 W/kg = 10.02 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V34**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5250MHz Head Verification

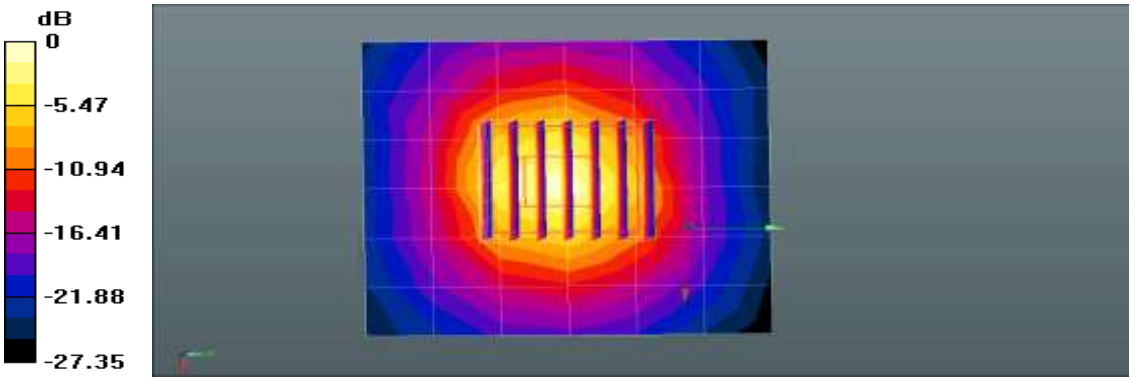
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.617 S/m; ε_r = 37.487; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.18, 5.18, 5.18) @ 5250 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.95 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 51.60 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 17.4 W/kg
SAR(1 g) = 4.15 W/kg; SAR(10 g) = 1.18 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 63.5%
Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 9.95 W/kg = 9.98 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V35**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.9℃
Test Date:	07/02/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

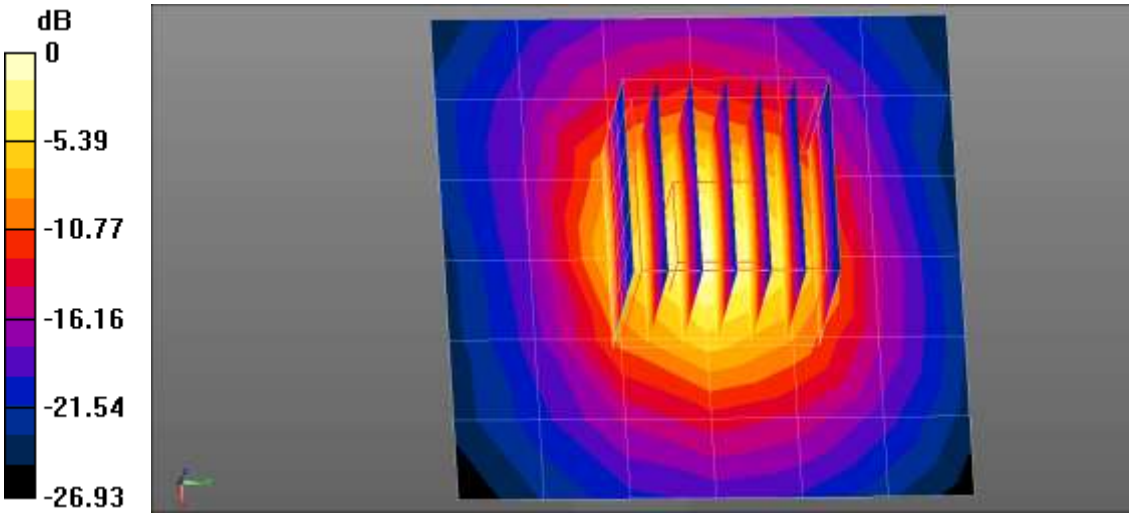
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.785 S/m; ε_r = 36.424; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7370; ConvF(5.18, 5.18, 5.18) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5250MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.5 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 51.83 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 16.8 W/kg
SAR(1 g) = 4.18 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.5 W/kg = 10.23 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V36**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.6 ℃
Test Date:	07/01/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

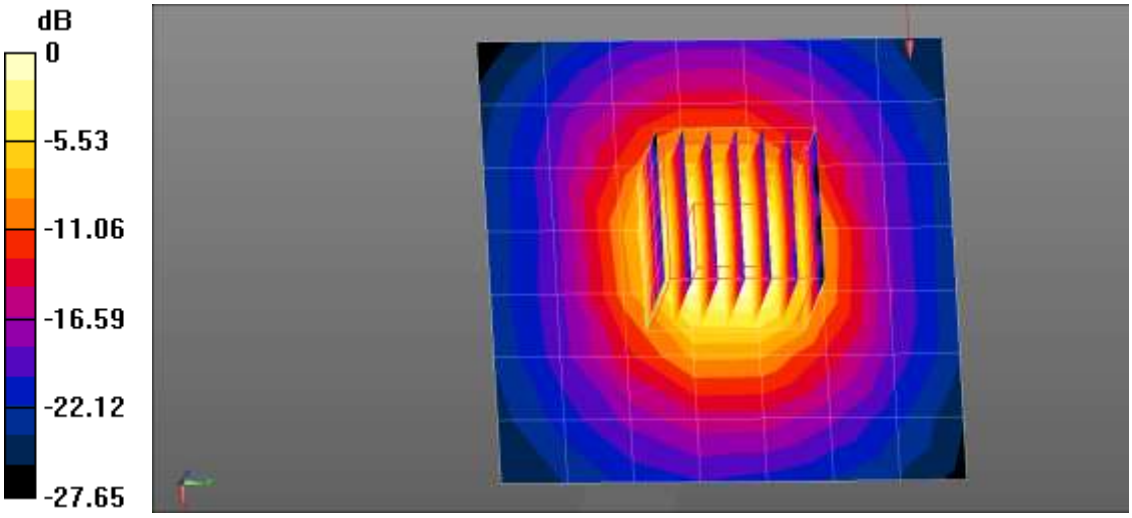
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5250 MHz; σ = 4.862 S/m; ε_r = 36.584; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5250MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.59 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 50.46 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 19.1 W/kg
SAR(1 g) = 3.99 W/kg; SAR(10 g) = 1.12 W/kg
Maximum value of SAR (measured) = 10.4 W/kg



0 dB = 6.59 W/kg = 8.19 dBW/kg

■ **Verification Data (5 250 ㎒ Head)** **V37**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0 ℃
Test Date:	07/09/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

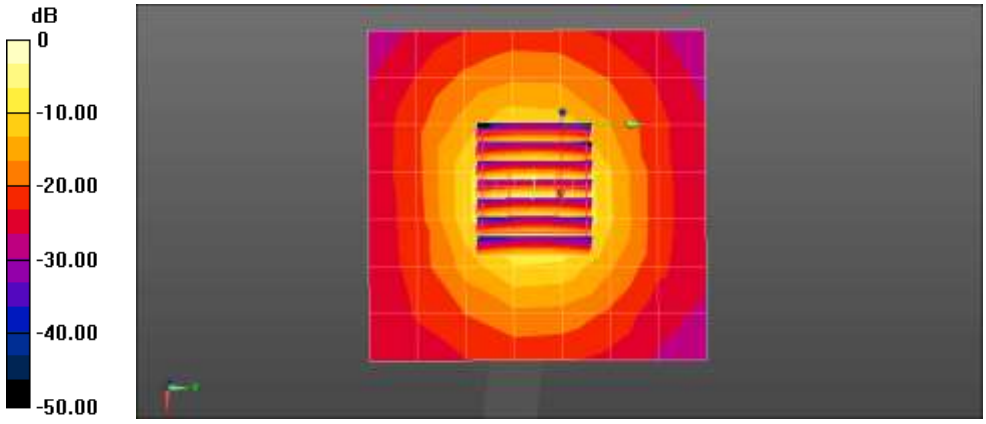
Communication System: UID 0, CW (0); Frequency: 5250 MHz;Duty Cycle: 1:1
Medium parameters used (interpolated): f = 5250 MHz; σ = 4.619 S/m; ε_r = 36.006; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.57, 5.57, 5.57) @ 5250 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5250MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.43 W/kg

Dipole/5250MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 52.32 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 19.7 W/kg
SAR(1 g) = 4.11 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 10.9 W/kg = 10.37 dBW/kg

■ **Verification Data (5 600 ㎒ Head) V38**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

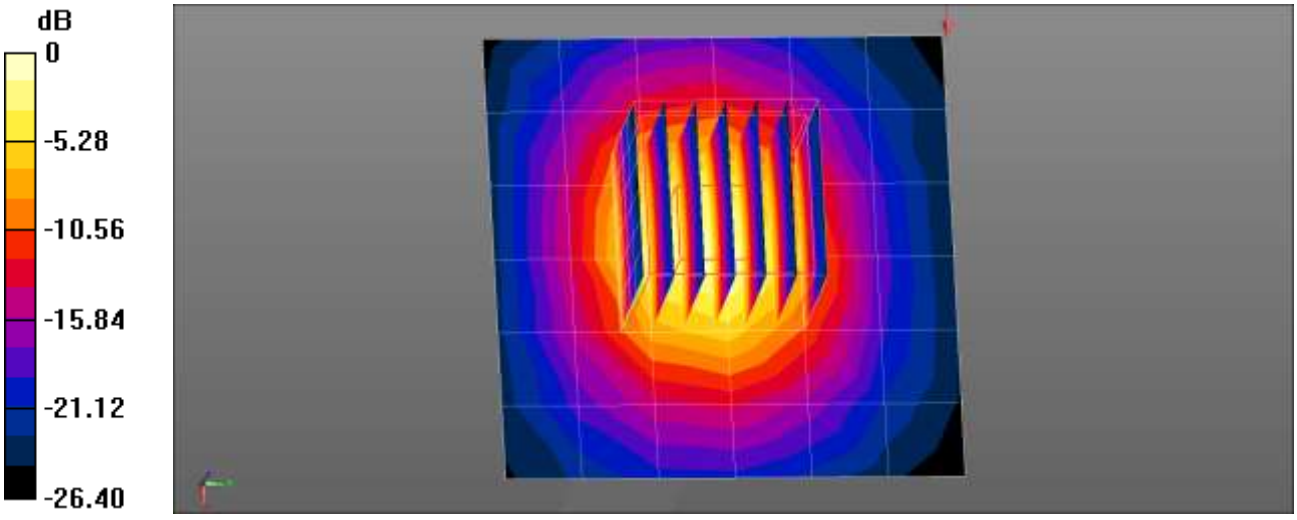
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.927 S/m; ε_r = 36.013; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.0 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.75 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 20.7 W/kg
SAR(1 g) = 4.09 W/kg; SAR(10 g) = 1.16 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.0 W/kg = 10.00 dBW/kg

■ **Verification Data (5 600 ㎒ Head) V39**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

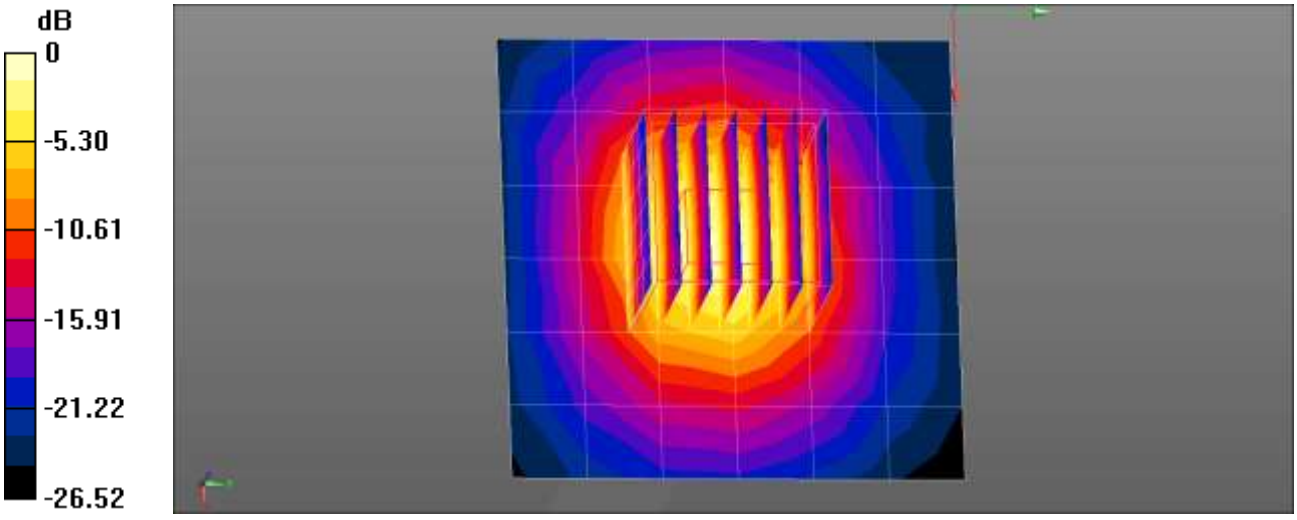
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.053 S/m; ε_r = 36.492; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.3 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.89 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 21.2 W/kg
SAR(1 g) = 4.2 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 10.3 W/kg = 10.11 dBW/kg

■ **Verification Data (5 600 ㎒ Head)** **V40**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5600MHz Head Verification

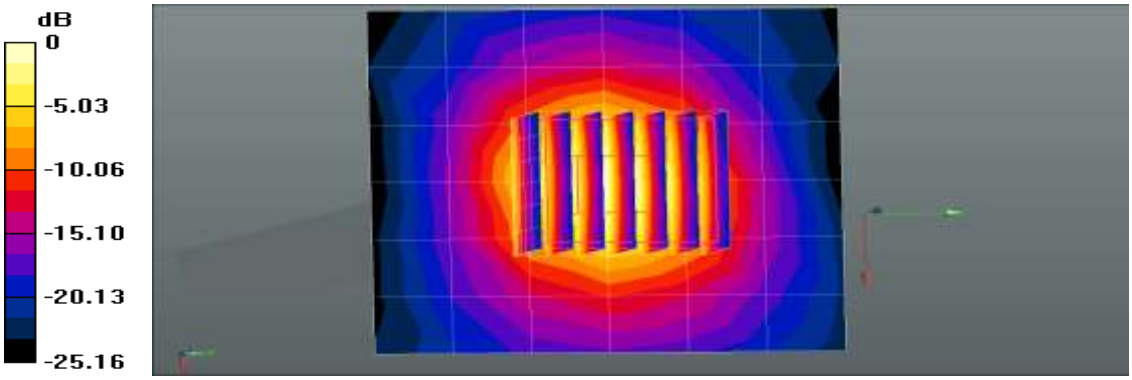
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.926 S/m; ε_r = 36.676; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.51, 4.51, 4.51) @ 5600 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.5 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 50.94 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 18.7 W/kg
SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.18 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 60.4%
Maximum value of SAR (measured) = 10.6 W/kg



0 dB = 10.5 W/kg = 10.19 dBW/kg

■ **Verification Data (5 600 ㎒ Head)** **V41**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5600MHz Head Verification

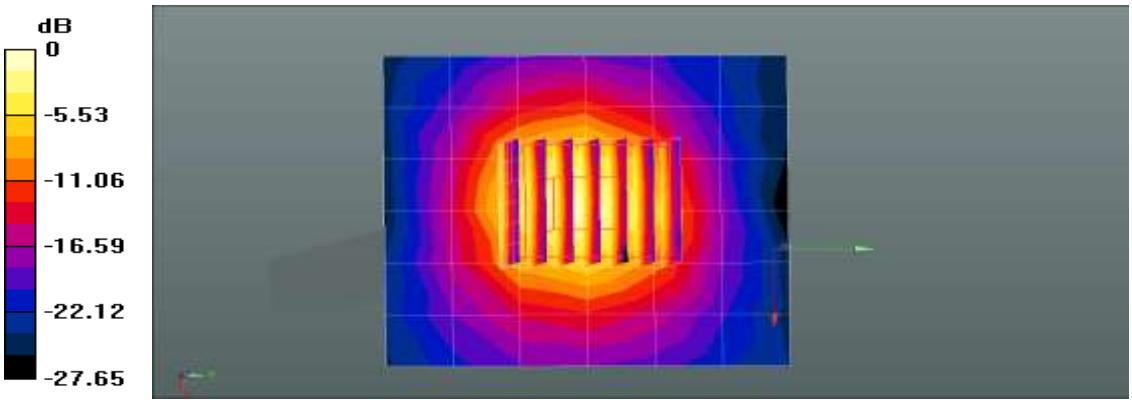
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 4.87 S/m; ε_r = 36.516; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.51, 4.51, 4.51) @ 5600 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.8 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 52.27 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 19.4 W/kg
SAR(1 g) = 4.32 W/kg; SAR(10 g) = 1.23 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 61.2%
Maximum value of SAR (measured) = 11.2 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

■ **Verification Data (5 600 ㎒ Head)** **V42**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.9 ℃
Test Date:	07/02/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

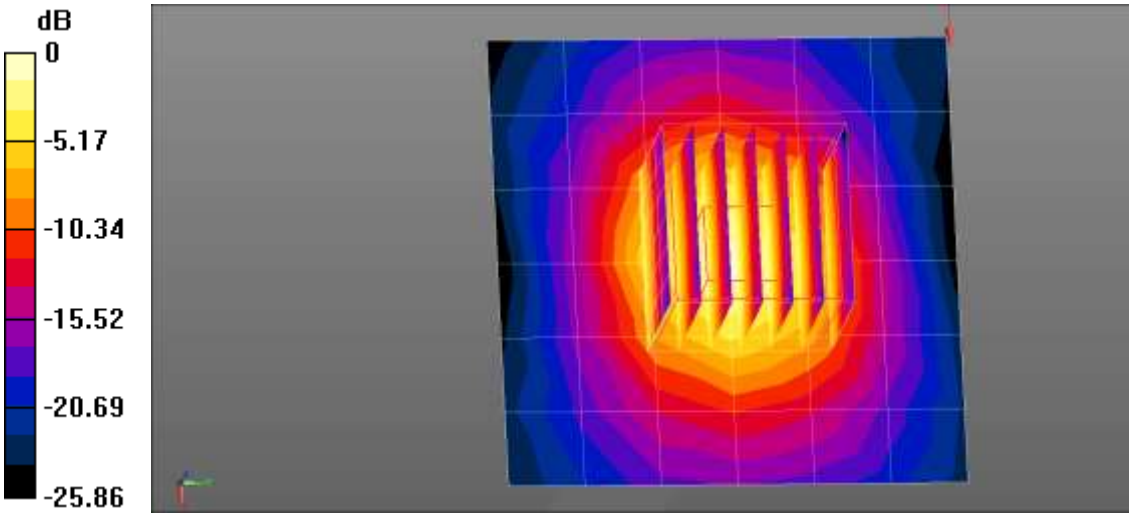
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.03 S/m; ε_r = 36.078; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.51, 4.51, 4.51) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5600MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.1 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.36 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 17.9 W/kg
SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.1 W/kg = 10.05 dBW/kg

■ **Verification Data (5 600 ㎒ Head)** **V43**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.6 ℃
Test Date:	07/01/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

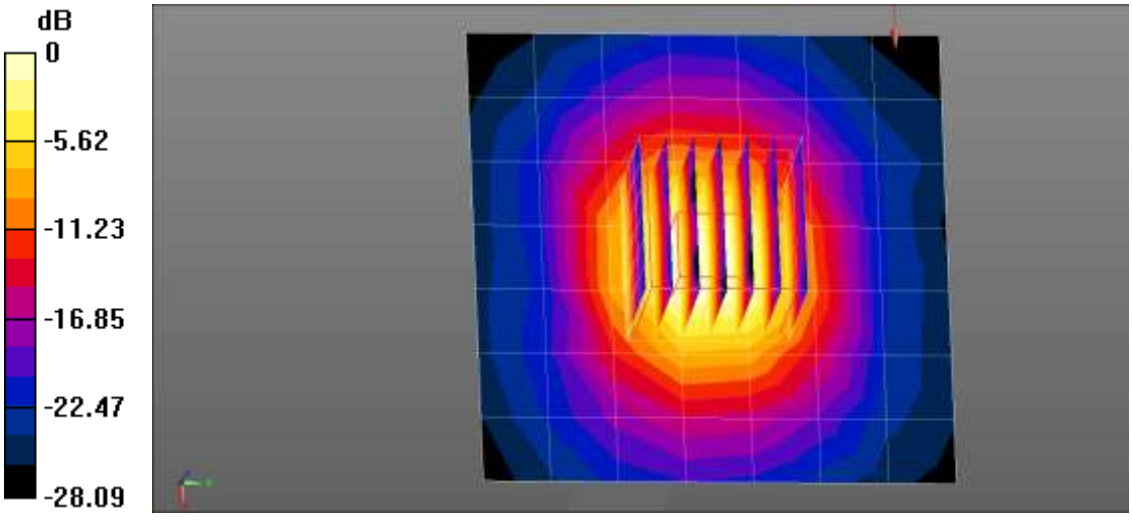
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5.057 S/m; ε_r = 36.038; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.49 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 52.54 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 22.5 W/kg
SAR(1 g) = 4.39 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 11.6 W/kg



0 dB = 7.49 W/kg = 8.75 dBW/kg

■ **Verification Data (5 600 ㎒ Head)** **V44**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.0 ℃
Test Date:	07/09/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

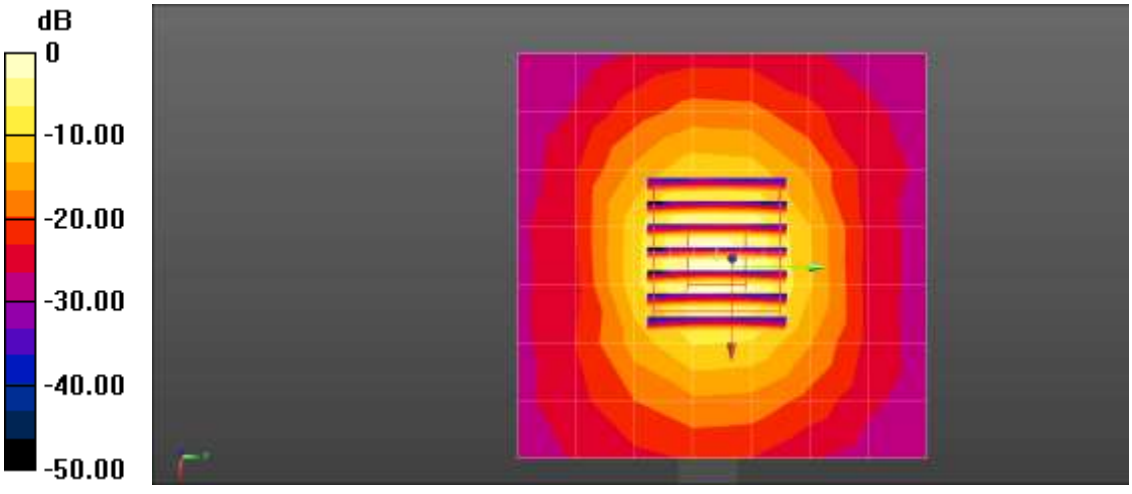
Communication System: UID 0, CW (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5600 MHz; σ = 5 S/m; ε_r = 35.538; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN3968; ConvF(4.84, 4.84, 4.84) @ 5600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 4/22/2020
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5600MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 7.34 W/kg

Dipole/5600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 52.53 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 22.5 W/kg
SAR(1 g) = 4.32 W/kg; SAR(10 g) = 1.18 W/kg
Smallest distance from peaks to all points 3 dB below = 6.8 mm
Ratio of SAR at M2 to SAR at M1 = 57.3%
Maximum value of SAR (measured) = 11.7 W/kg



0 dB = 11.7 W/kg = 10.68 dBW/kg

■ **Verification Data (5 750 ㎒ Head)** **V45**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	21.2 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

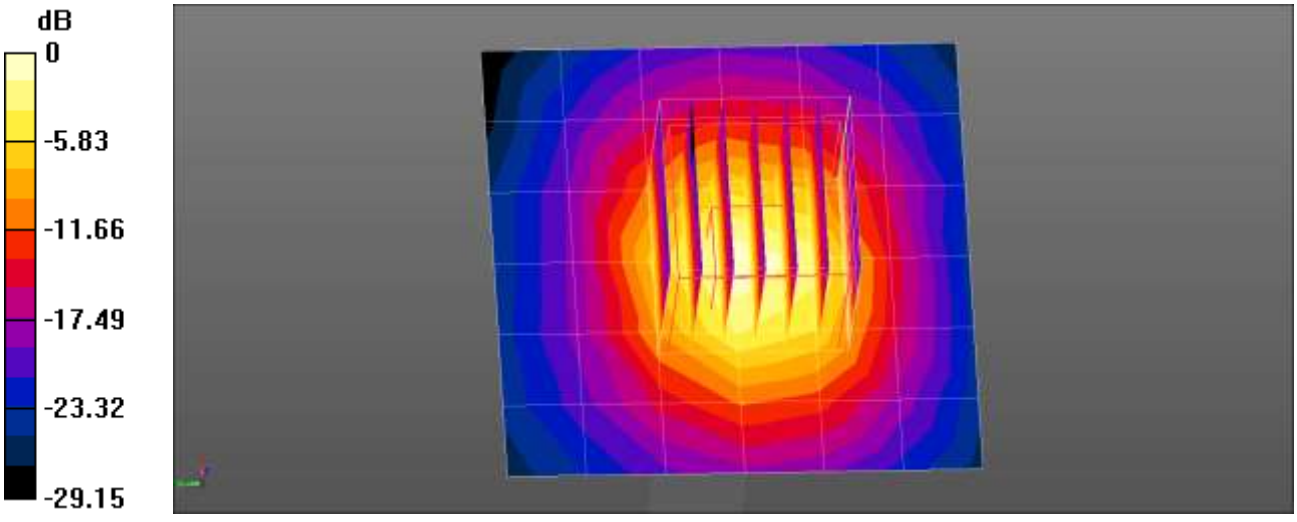
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.195 S/m; ε_r = 36.079; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 9.92 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.58 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 21.8 W/kg
SAR(1 g) = 4.06 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 10.9 W/kg



0 dB = 9.92 W/kg = 9.96 dBW/kg

■ **Verification Data (5 750 ㎒ Head)** **V46**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.8 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

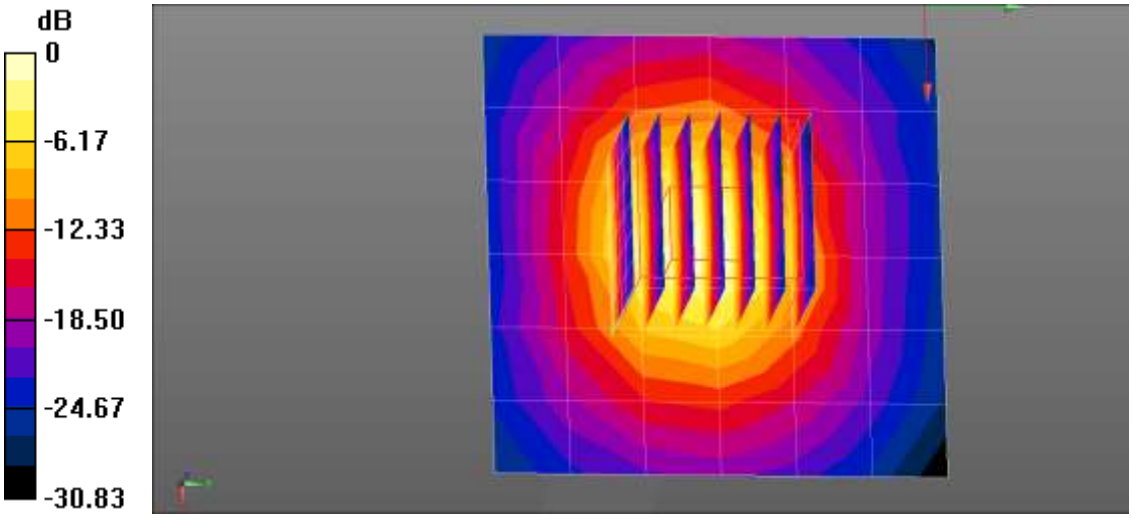
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.224 S/m; ε_r = 36.6; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.0 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.45 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 22.0 W/kg
SAR(1 g) = 4.06 W/kg; SAR(10 g) = 1.13 W/kg
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 10.0 W/kg = 10.00 dBW/kg

■ **Verification Data (5 750 ㎒ Head)** **V47**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.3 ℃
Test Date:	06/30/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5750MHz Head Verification

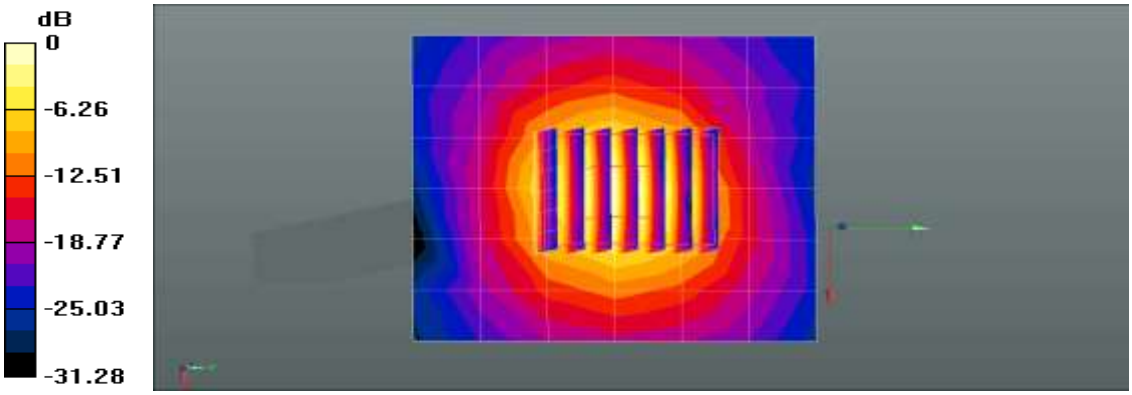
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.112 S/m; ε_r = 36.442; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5750 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.1 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.13 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 17.8 W/kg
SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.09 W/kg
Smallest distance from peaks to all points 3 dB below = 7.4 mm
Ratio of SAR at M2 to SAR at M1 = 60.5%
Maximum value of SAR (measured) = 10.2 W/kg



0 dB = 10.1 W/kg = 10.03 dBW/kg

■ **Verification Data (5 750 ㎒ Head) V48**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.5 ℃
Test Date:	06/29/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:xxx
Procedure Name: 5750MHz Head Verification

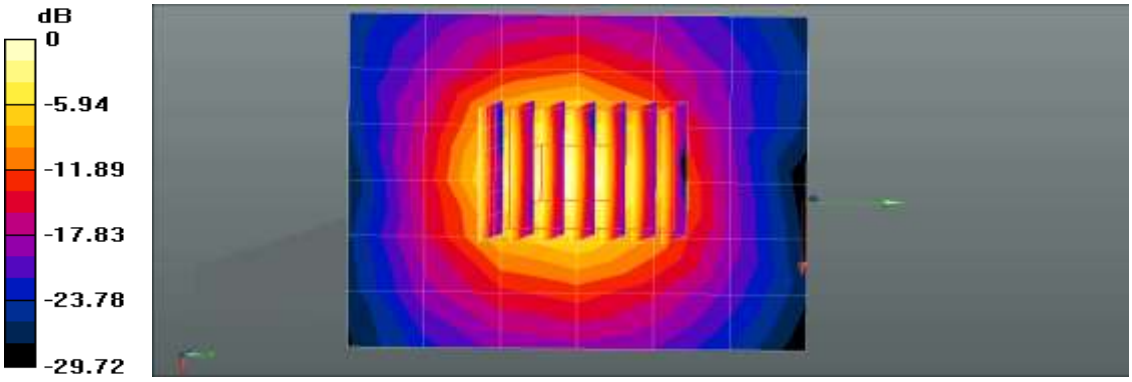
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.011 S/m; ε_r = 36.696; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5750 MHz; Calibrated: 2019-08-29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0; Type: QD000P40CD; Serial: TP:xxxx
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Dipole/5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.3 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 50.31 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 19.3 W/kg
SAR(1 g) = 4.09 W/kg; SAR(10 g) = 1.15 W/kg
Smallest distance from peaks to all points 3 dB below = 7.2 mm
Ratio of SAR at M2 to SAR at M1 = 60%
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.3 W/kg = 10.13 dBW/kg

■ **Verification Data (5 750 MHz Head) V49**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	20.9℃
Test Date:	07/02/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

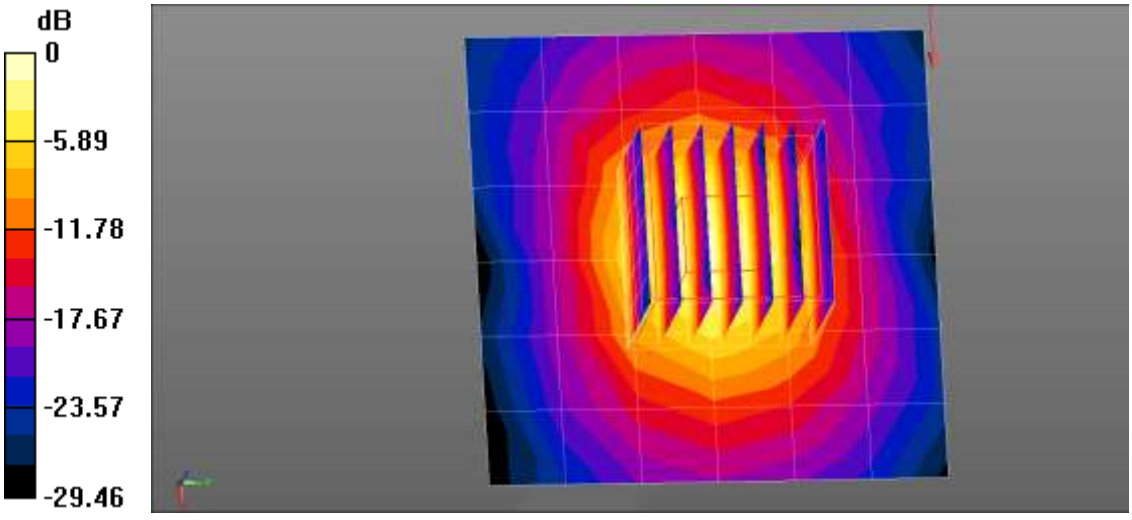
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.277 S/m; ε_r = 36.002; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN7370; ConvF(4.75, 4.75, 4.75) @ 5750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1417; Calibrated: 2020-02-26
- Phantom: SAM with CRP v5.0
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5750MHz Head Verification/Area Scan (7x7x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 10.6 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.60 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 18.8 W/kg
SAR(1 g) = 4.07 W/kg; SAR(10 g) = 1.14 W/kg
Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.6 W/kg = 10.24 dBW/kg

■ **Verification Data (5 750 ㎒ Head) V50**

Test Laboratory:	HCT CO., LTD
Input Power	0.05 W
Liquid Temp:	19.6 ℃
Test Date:	07/01/2020

DUT: Dipole D5GHzV2; Type: D5GHzV2

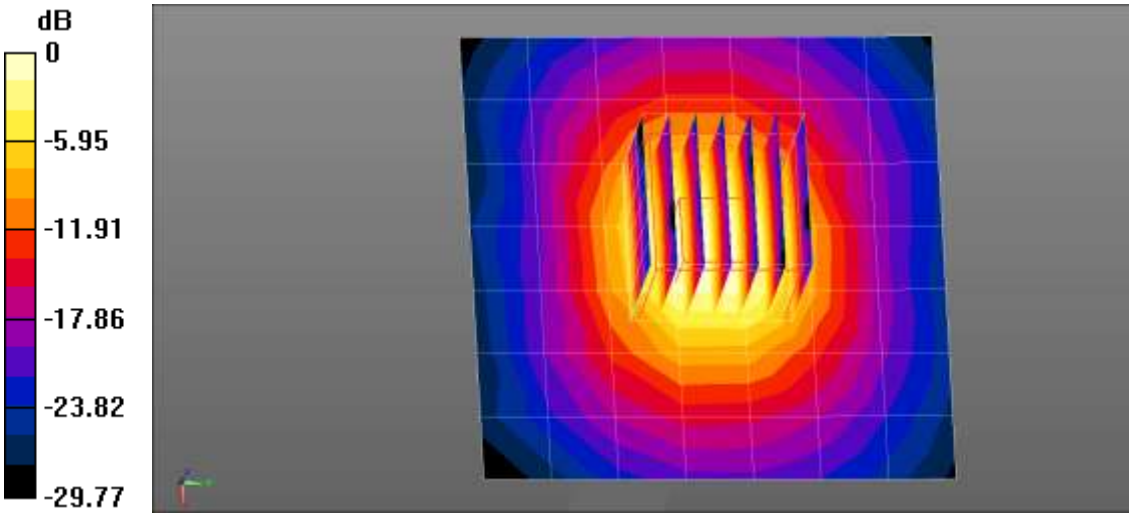
Communication System: UID 0, CW (0); Frequency: 5750 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5750 MHz; σ = 5.359 S/m; ε_r = 36.046; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3968; ConvF(5.1, 5.1, 5.1) @ 5750 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn466; Calibrated: 2020-04-22
- Phantom: Twin-SAM V4.0 (Left-Right)
- Measurement SW: DASY52, Version 52.10 (4);

Dipole/5750MHz Head Verification/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 6.75 W/kg

Dipole/5750MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.30 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 20.7 W/kg
SAR(1 g) = 3.87 W/kg; SAR(10 g) = 1.08 W/kg
Maximum value of SAR (measured) = 10.4 W/kg



0 dB = 6.75 W/kg = 8.30 dBW/kg

■ **Verification Data (2600 ㎒ Head) V51**

Test Laboratory: HCT CO., LTD
Input Power 0.05 W
Liquid Temp: 21.6 ℃
Test Date: 07/31/2020

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2

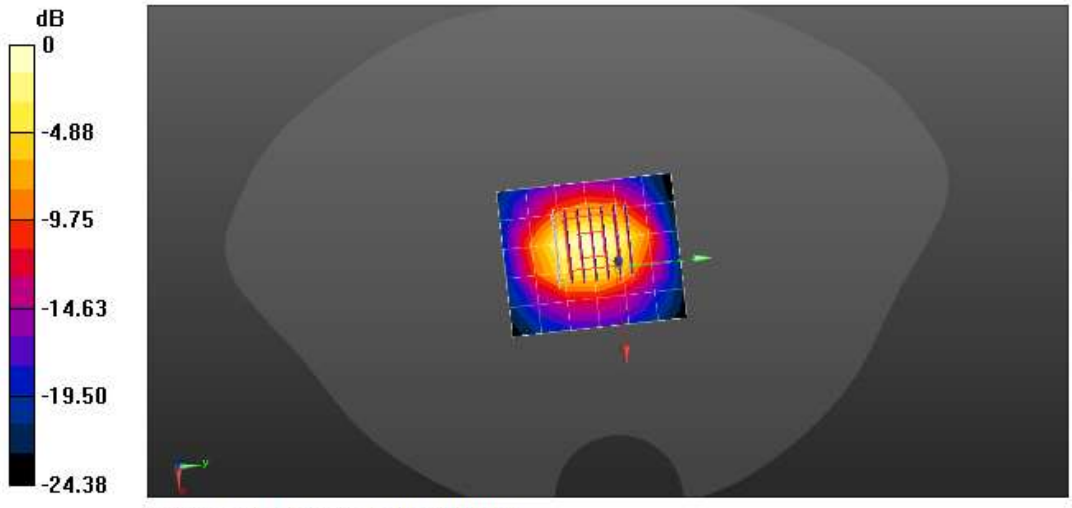
Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium parameters used: f = 2600 MHz; σ = 1.958 S/m; ε_r = 38.874; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: EX3DV4 - SN3797; ConvF(7.2, 7.2, 7.2) @ 2600 MHz;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn652; Calibrated: 2/3/2020
- Phantom: Twin-SAM V4.0 (20deg probe tilt)_1588_20200429
- Measurement SW: DASY52, Version 52.10 (4);

Dipole /2600MHz Head Verification/Area Scan (6x7x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 4.85 W/kg

Dipole /2600MHz Head Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.84 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 7.08 W/kg
SAR(1 g) = 2.97 W/kg; SAR(10 g) = 1.27 W/kg
Smallest distance from peaks to all points 3 dB below = 8 mm
Ratio of SAR at M2 to SAR at M1 = 41.6%
Maximum value of SAR (measured) = 5.43 W/kg



0 dB = 4.85 W/kg = 6.86 dBW/kg

Appendix D. – SAR Tissue Characterization

The brain and muscle mixtures consist of a viscous gel using hydrox-ethyl cellulose (HEC) gelling agent and
saline solution (see Table 3.1). Preservation with a bacteriacide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for
the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.

Ingredients (% by weight)	Frequency (MHz)											
	750		835		1 750		1 900		2 450 – 2 700		5 200 - 5 800	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	41.1	51.7	40.45	53.06	52.6	68.8	54.9	70.17	71.88	73.2	65.52	78.66
Salt (NaCl)	1.4	0.9	1.45	0.94	0.4	0.2	0.18	0.39	0.16	0.1	0.0	0.0
Sugar	57.0	47.2	57.0	44.9	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
HEC	0.2	0	1.0	1.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
Bactericide	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.97	0.0	17.24	10.67
DGBE	0.0	0.0	0.0	0.0	47	31	44.92	29.44	7.99	26.7	0.0	0.0
Diethylene glycol hexyl ether	-	-	-	-	-	-	-	-	-	-	-	-

Salt:	99 % Pure Sodium Chloride	Sugar:	98 % Pure Sucrose
Water:	De-ionized, 16M resistivity	HEC:	Hydroxyethyl Cellulose
DGBE:	99 % Di(ethylene glycol) butyl ether,[2-(2-butoxyethoxy) ethanol]		
Triton X-100(ultra-pure):	Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl] ether		

Composition of the Tissue Equivalent Matter

Appendix E. – SAR Tissue Characterization

Per FCC KCB 865664 D02v01r02, SAR system validation status should be document to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in IEEE 1528-2013 and FCC KDB 865664 D01v01r04. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.
A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

SAR System No.	Probe	Probe Type	Probe Calibration Point		Dipole	Date	Dielectric Parameters		CW Validation			Modulation Validation		
							Measured Permittivity	Measured Conductivity	Sensitivity	Probe Linearity	Probe Isotropy	MOD. Type	Duty Factor	PAR
12	7370	EX3DV4	Head	750	1014	2019-09-11	41.7	0.87	PASS	PASS	PASS	N/A	N/A	N/A
1	3863	EX3DV4	Body	750	1014	2019-06-07	55.6	0.98	PASS	PASS	PASS	N/A	N/A	N/A
12	7370	EX3DV4	Head	835	441	2019-09-11	41.6	0.91	PASS	PASS	PASS	N/A	N/A	N/A
12	7370	EX3DV4	Head	835	441	2019-09-11	41.6	0.91	PASS	PASS	PASS	GMSK	PASS	N/A
3	3797	EX3DV4	Body	835	441	2019-12-10	55.3	0.98	PASS	PASS	PASS	GMSK	PASS	N/A
11	3076	ES3DV3	Body	835	441	2019-09-03	55.5	0.97	PASS	PASS	PASS	GMSK	PASS	N/A
1	3863	EX3DV4	Body	835	441	2019-09-03	55.4	0.97	PASS	PASS	PASS	N/A	N/A	N/A
11	3076	ES3DV3	Head	1750	2d015	2019-10-01	40.1	1.39	PASS	PASS	PASS	N/A	N/A	N/A
1	3863	EX3DV4	Body	1750	2d015	2019-10-01	53.5	1.52	PASS	PASS	PASS	N/A	N/A	N/A
9	3968	EX3DV4	Body	1750	2d015	2019-10-11	53.5	1.52	PASS	PASS	PASS	N/A	N/A	N/A
3	3797	EX3DV4	Head	1900	5d061	2020-01-31	40.1	1.42	PASS	PASS	PASS	GMSK	PASS	N/A
3	3797	EX3DV4	Body	1900	5d061	2020-01-31	53.3	1.53	PASS	PASS	PASS	GMSK	PASS	N/A
9	3968	EX3DV4	Head	2450	743	2020-03-02	39.4	1.81	PASS	PASS	PASS	OFDM	N/A	PASS
1	3863	EX3DV4	Head	2450	743	2020-03-02	39.4	1.81	PASS	PASS	PASS	OFDM	N/A	PASS
9	3968	EX3DV4	Body	2450	743	2020-03-02	52.8	1.94	PASS	PASS	PASS	OFDM	N/A	PASS
1	3863	EX3DV4	Body	2450	743	2020-03-02	52.8	1.94	PASS	PASS	PASS	OFDM	N/A	PASS
1	3863	EX3DV4	Head	2600	1106	2019-12-05	39.2	1.96	PASS	PASS	PASS	TDD	PASS	N/A
1	3863	EX3DV4	Body	2600	1106	2019-09-28	52.4	2.16	PASS	PASS	PASS	TDD	PASS	N/A
3	3797	EX3DV4	Head	2600	1106	2019-09-28	39.2	1.96	PASS	PASS	PASS	TDD	PASS	N/A
12	7370	EX3DV4	Head	5250	1107	2019-10-11	35.6	4.71	PASS	PASS	PASS	OFDM	N/A	PASS
12	7370	EX3DV4	Head	5600	1107	2019-10-11	35.3	5.04	PASS	PASS	PASS	OFDM	N/A	PASS
12	7370	EX3DV4	Head	5750	1107	2019-10-11	35.8	5.25	PASS	PASS	PASS	OFDM	N/A	PASS
9	3968	EX3DV4	Head	5250	1107	2019-10-11	35.6	4.71	PASS	PASS	PASS	OFDM	N/A	PASS
9	3968	EX3DV4	Head	5600	1107	2019-10-11	35.3	5.04	PASS	PASS	PASS	OFDM	N/A	PASS
9	3968	EX3DV4	Head	5750	1107	2019-10-11	35.8	5.25	PASS	PASS	PASS	OFDM	N/A	PASS
8	3967	EX3DV4	Body	5250	1107	2020-03-11	48.8	5.36	PASS	PASS	PASS	OFDM	N/A	PASS
8	3967	EX3DV4	Body	5600	1107	2020-03-11	48.3	5.78	PASS	PASS	PASS	OFDM	N/A	PASS
8	3967	EX3DV4	Body	5750	1107	2020-03-11	48.4	5.95	PASS	PASS	PASS	OFDM	N/A	PASS

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Note;
All measurement were performed using probes calibrated for CW signal only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04. SAR system were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to KDB 865664 D01v01r04.