Appendix A. Plots of System Verification

The plots for system verification are shown as follows.

Measurement Report
S01 System Check_H1900_230712
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				1900.0	7.65	1.48	41.8

Hardware Setup

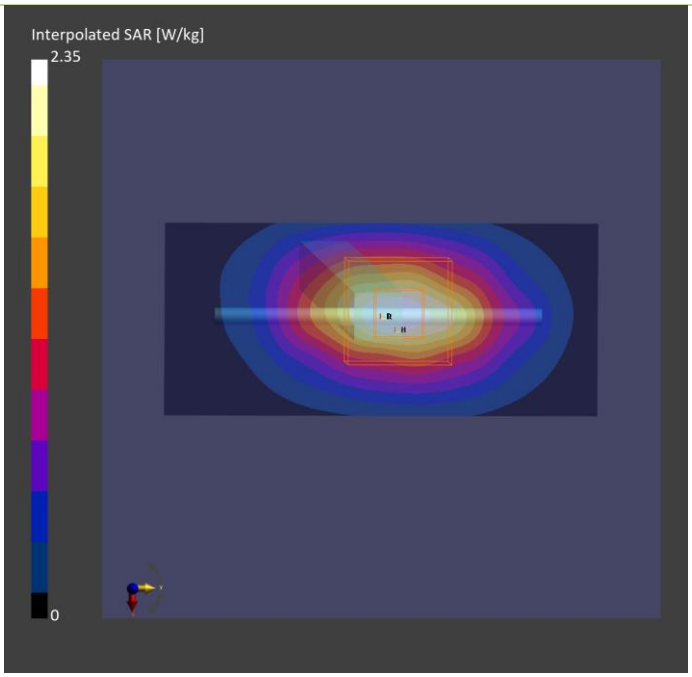
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	1.89	1.92
psSAR10g [W/kg]	0.989	1.02
Power Drift [dB]	-0.01	0.01



Measurement Report
S02 System Check_H1750_230712
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				1750.0	8.03	1.39	42.0

Hardware Setup

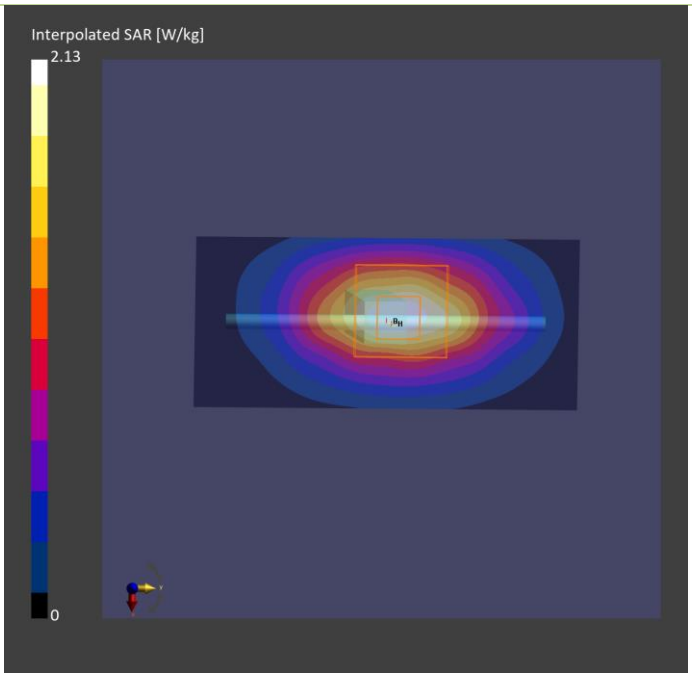
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	1.73	1.75
psSAR10g [W/kg]	0.929	0.940
Power Drift [dB]	0.03	0.04



Measurement Report
S03 System Check_H750_230712
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				750.0	9.09	0.932	43.9

Hardware Setup

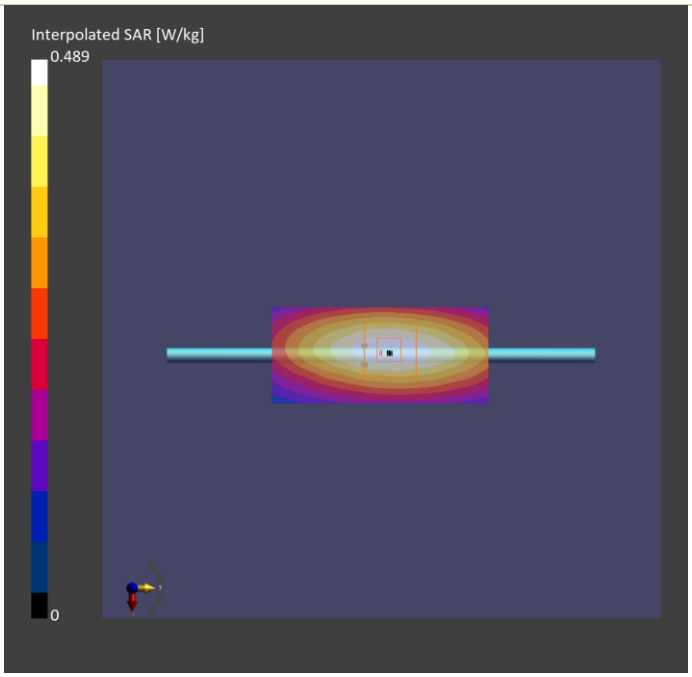
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	45.0 x 90.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	0.427	0.424
psSAR10g [W/kg]	0.286	0.281
Power Drift [dB]	0.01	0.02



Measurement Report
S04 System Check H2450_230711
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				2450.0	7.10	1.80	39.8

Hardware Setup

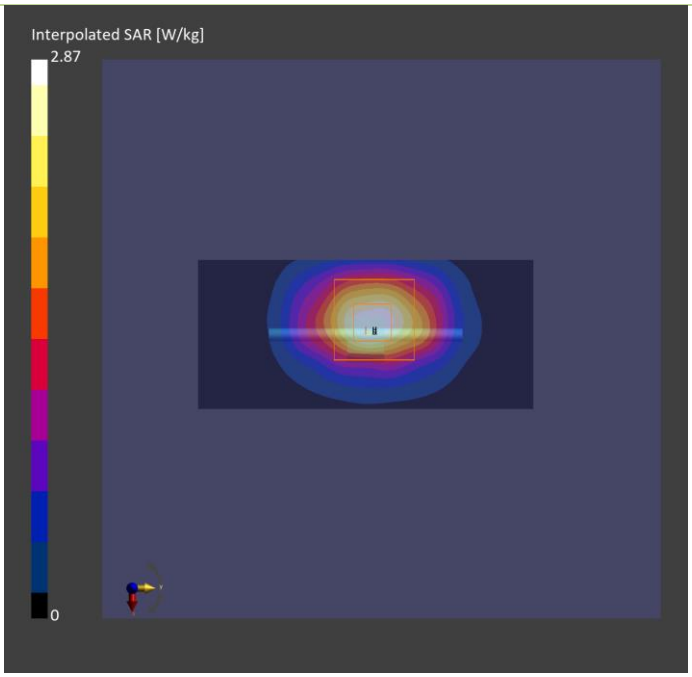
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1988 H06T27N5 , 2023-Jul-11	EX3DV4 - SN7720, 2023-03-23	DAE4 Sn1762, 2022-12-08

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	48.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-11	2023-07-11
psSAR1g [W/kg]	2.24	2.32
psSAR10g [W/kg]	1.08	1.10
Power Drift [dB]	0.01	0.04



Measurement Report
S05 System Check_H5250_230713
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				5250.0	4.89	4.51	36.0

Hardware Setup

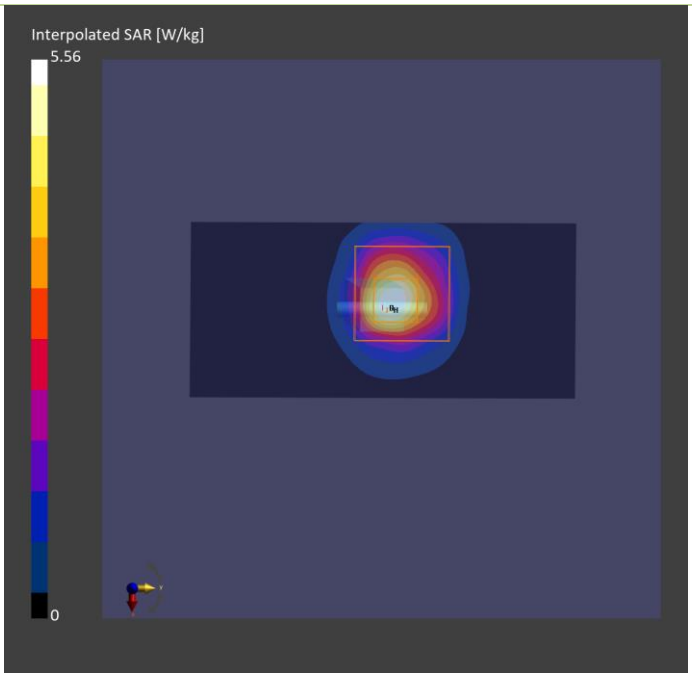
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H51T72N6 , 2023-Jul-13	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-13	2023-07-13
psSAR1g [W/kg]	3.68	4.24
psSAR10g [W/kg]	1.17	1.20
Power Drift [dB]	0.02	0.02



Measurement Report
S06 System Check_H5600_230711
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				5600.0	4.82	4.95	36.4

Hardware Setup

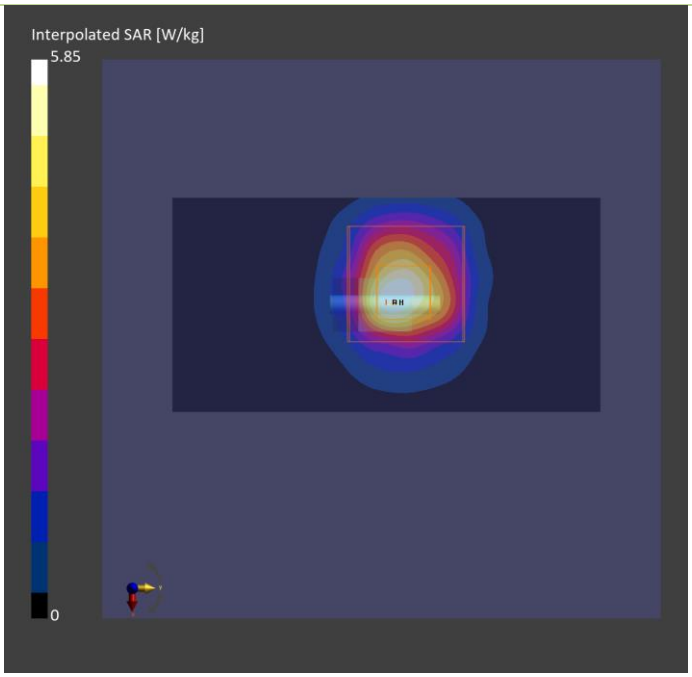
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1988 H51T72N5 , 2023-Jul-11	EX3DV4 - SN7720, 2023-03-23	DAE4 Sn1762, 2022-12-08

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-11	2023-07-11
psSAR1g [W/kg]	4.11	4.52
psSAR10g [W/kg]	1.29	1.28
Power Drift [dB]	-0.01	-0.04



Measurement Report
S07 System Check_H5750_230713
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				5750.0	4.39	5.06	35.2

Hardware Setup

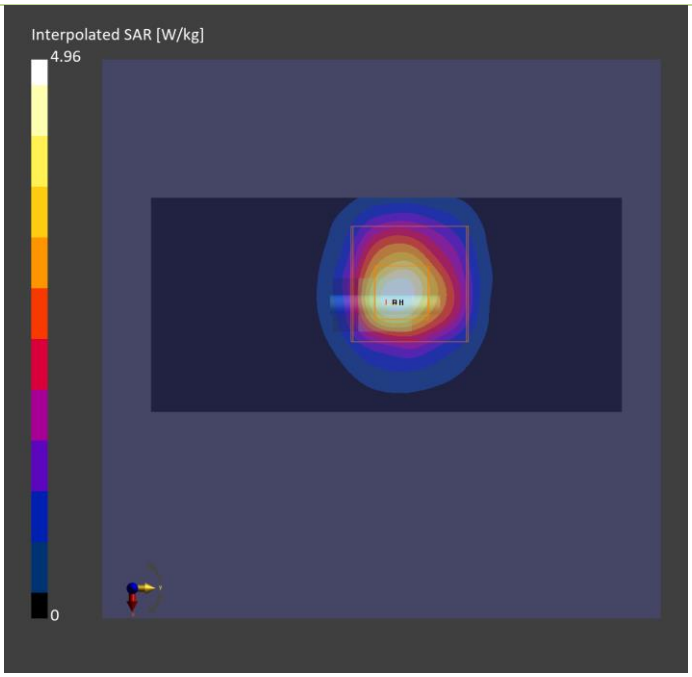
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H51T72N6 , 2023-Jul-13	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	40.0 x 80.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-13	2023-07-13
psSAR1g [W/kg]	3.35	3.85
psSAR10g [W/kg]	1.05	1.10
Power Drift [dB]	-0.03	0.01



Measurement Report
S08 System Check_H2450_230712
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Dipole	10.0 x 10.0 x 300.0		

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat				2450.0	7.39	1.86	41.2

Hardware Setup

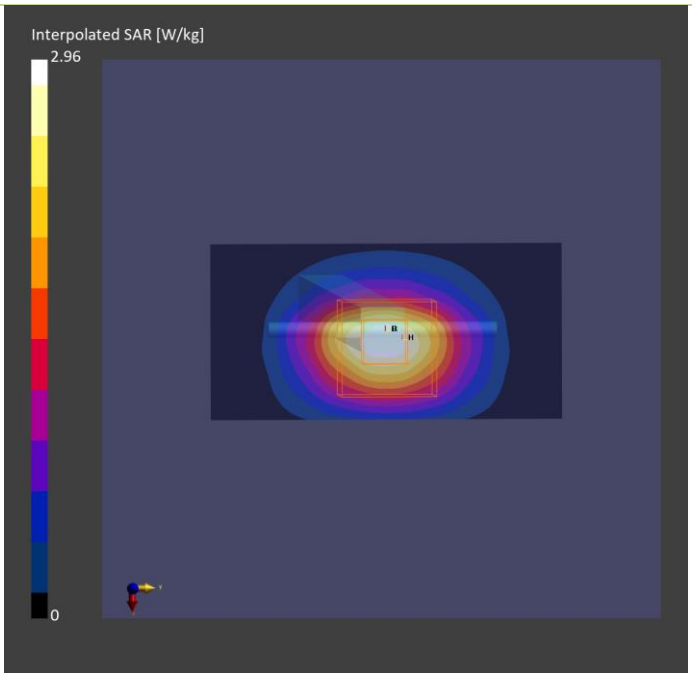
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	44.0 x 88.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	2.31	2.38
psSAR10g [W/kg]	1.11	1.09
Power Drift [dB]	0.01	0.01



Appendix B. Plots of Measurement

The SAR plots for highest measured SAR in each exposure configuration, wireless mode and frequency band combination are shown as follows.

Measurement Report
P01 LTE 2_QPSK20M_Rear Face_0mm_Ch18900_1RB_OS0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Rear Face, 0.00	Band 2	LTE-FDD, 10169-CAF	1880.000, 18900	7.65	1.47	41.9

Hardware Setup

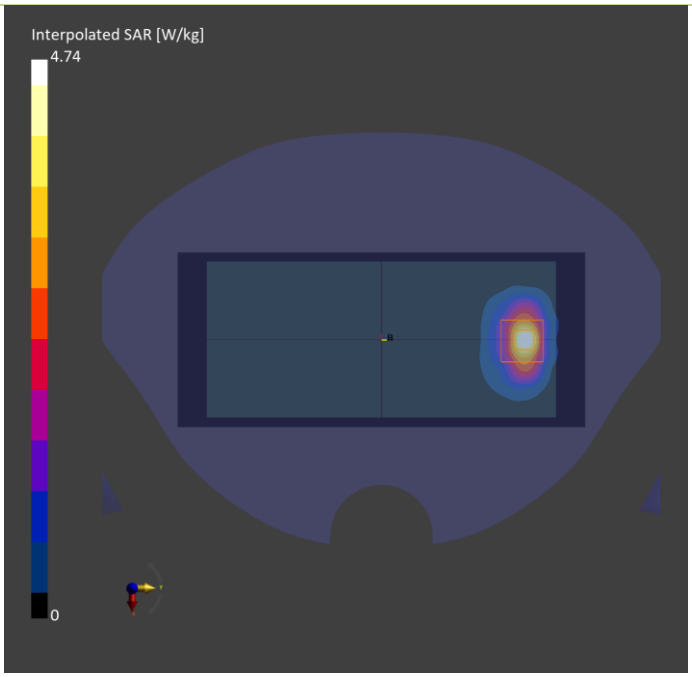
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	3.49	3.65
psSAR10g [W/kg]	1.65	1.79
Power Drift [dB]	-0.03	-0.01
M2/M1 [%]		61.7
Dist 3dB Peak [mm]		8.0



Measurement Report
P02 LTE 4_QPSK20M_Rear Face_0mm_Ch20175_1RB_OS0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	FRONT, 0.00	Band 4	LTE-FDD, 10169-CAF	1732.500, 20175	8.03	1.38	42.1

Hardware Setup

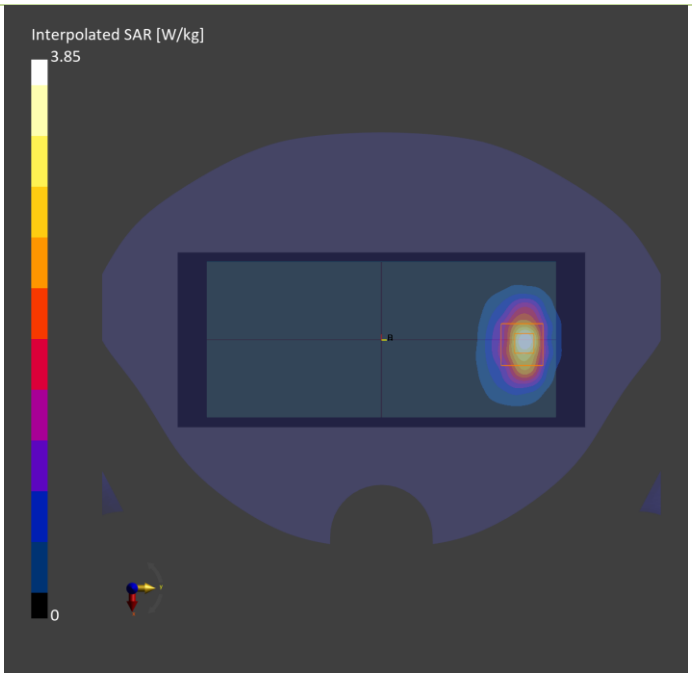
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	2.94	3.08
psSAR10g [W/kg]	1.47	1.57
Power Drift [dB]	0.02	0.01
M2/M1 [%]		62.6
Dist 3dB Peak [mm]		8.7



Measurement Report
P03 LTE 12_QPSK10M_Rear Face_0mm_Ch23095_1RB_OS0
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Rear Face, 0.00	Band 12	LTE-FDD, 10175-CAH	707.500, 23095	9.09	0.919	44.0

Hardware Setup

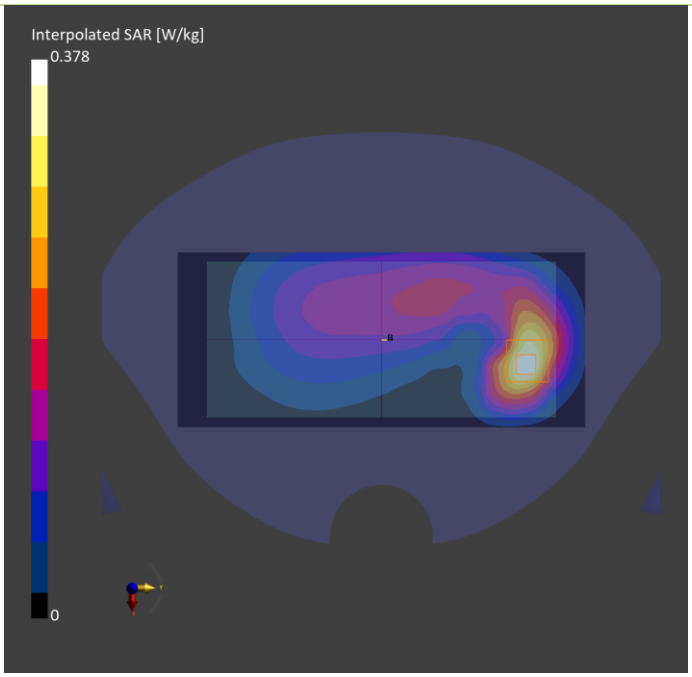
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 210.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12	2023-07-12
psSAR1g [W/kg]	0.318	0.326
psSAR10g [W/kg]	0.197	0.189
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		50.2
Dist 3dB Peak [mm]		10.2



Measurement Report
P04 WLAN2.4G_802.11b_Right Side_0mm_Ch6
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Right Side, 0.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.000, 6	7.1	1.79	39.8

Hardware Setup

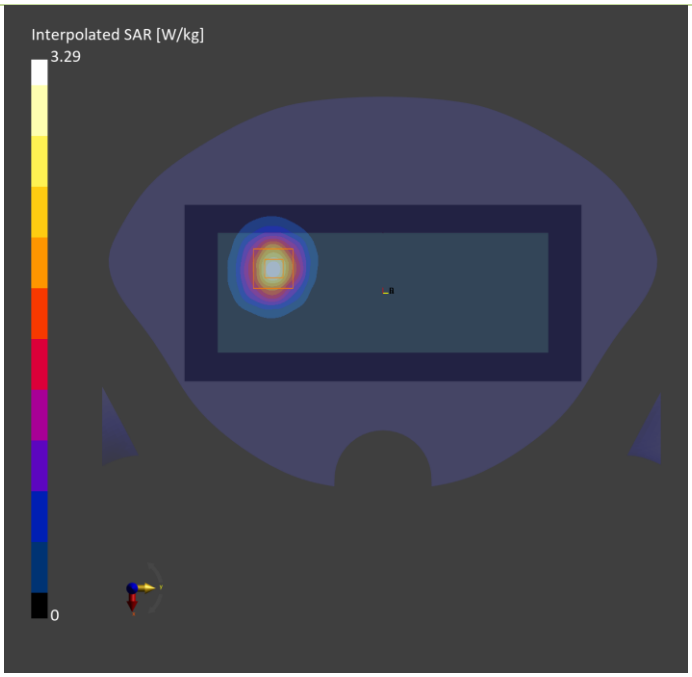
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1988 H06T27N5 , 2023-Jul-11	EX3DV4 - SN7720, 2023-03-23	DAE4 Sn1762, 2022-12-08

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-11	2023-07-11
psSAR1g [W/kg]	2.53	2.45
psSAR10g [W/kg]	1.22	1.24
Power Drift [dB]	0.10	0.03
M2/M1 [%]		53.1
Dist 3dB Peak [mm]		11.7



Measurement Report
P05 WLAN5.3G_802.11n HT40_Right Side_0mm_Ch54
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Right Side, 0.00	WLAN 5GHz	WLAN, 10599-AAD	5270.000, 54	4.89	4.53	36.0

Hardware Setup

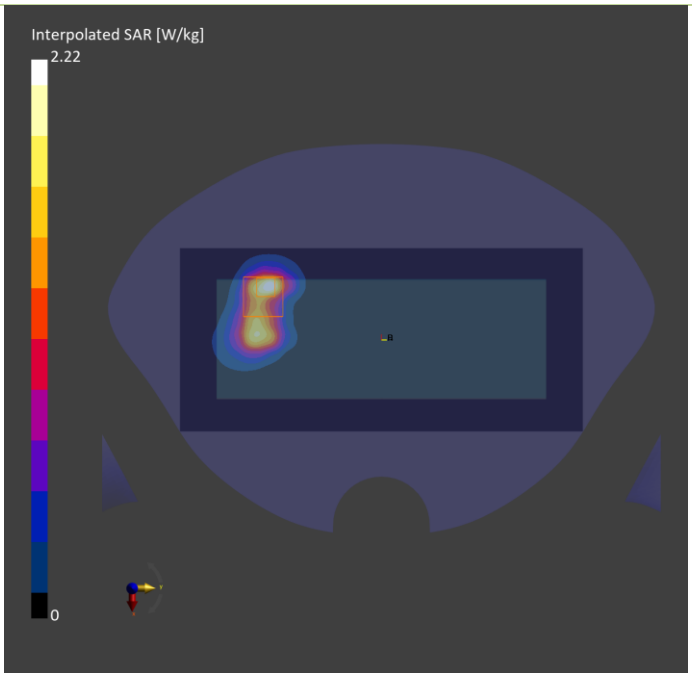
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H51T72N6 , 2023-Jul-13	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 220.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-13	2023-07-13
psSAR1g [W/kg]	1.48	1.59
psSAR10g [W/kg]	0.525	0.503
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		68.0
Dist 3dB Peak [mm]		9.4



Measurement Report
P06 WLAN5.6G_802.11n HT40_Right Side_0mm_Ch110
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Right Side, 0.00	WLAN 5GHz	WLAN, 10599-AAD	5550.000, 110	4.82	4.90	36.4

Hardware Setup

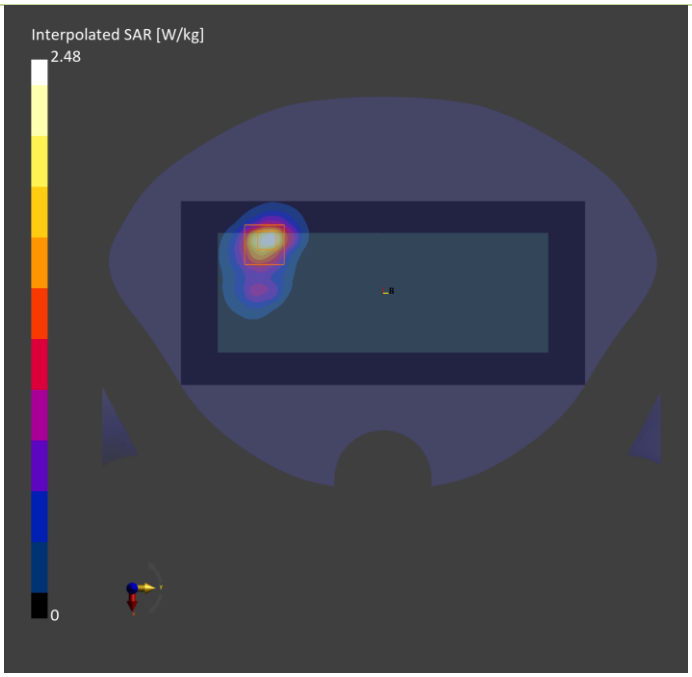
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1988 H51T72N5 , 2023-Jul-11	EX3DV4 - SN7720, 2023-03-23	DAE4 Sn1762, 2022-12-08

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 220.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-11	2023-07-11
psSAR1g [W/kg]	1.75	1.99
psSAR10g [W/kg]	0.604	0.633
Power Drift [dB]	0.01	0.01
M2/M1 [%]		62.2
Dist 3dB Peak [mm]		7.2



Measurement Report
P07 WLAN5.8G_802.11n HT40_Top Side_0mm_Ch151
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Top Side, 0.00	WLAN 5GHz	WLAN, 10599-AAD	5755.000, 151	4.39	5.07	35.2

Hardware Setup

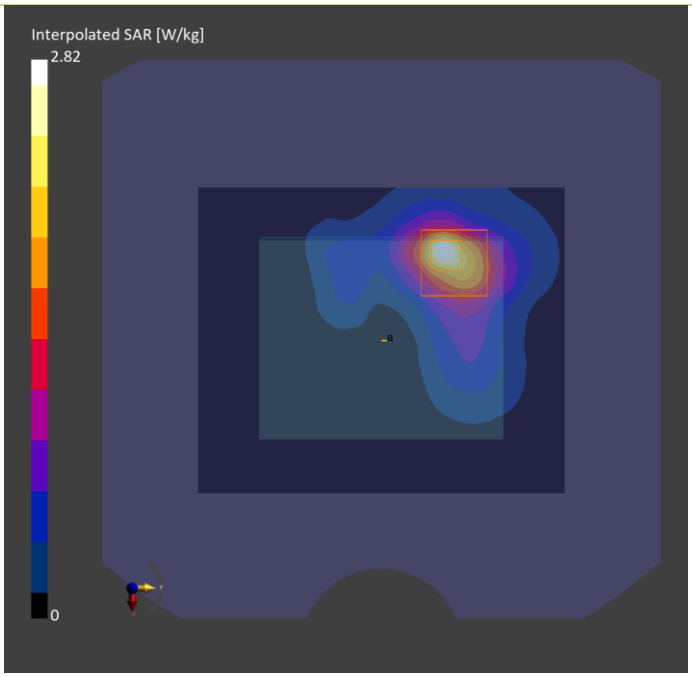
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H51T72N6 , 2023-Jul-13	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	100.0 x 120.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-13	2023-07-13
psSAR1g [W/kg]	1.92	1.80
psSAR10g [W/kg]	0.687	0.634
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		63.6
Dist 3dB Peak [mm]		6.6



Measurement Report
P08 BT_BDR_Right Side_0mm_Ch39
Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
BEOE-WTW-P23060395	180.0 x 80.0 x 65.0		Phone

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat,	Right Side, 0.00	ISM 2.4 GHz Band	Bluetooth, 10032-CAA	2441.000, 39	7.39	1.85	41.2

Hardware Setup

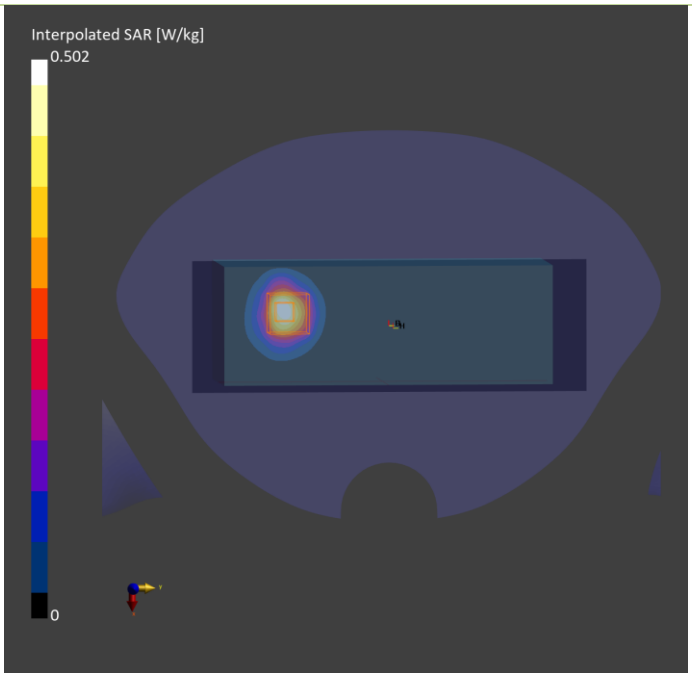
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V8.0 (30deg probe tilt) -	1982 H06T27N6 , 2023-Jul-12	EX3DV4 - SN7797, 2022-12-12	DAE4 Sn1590, 2022-09-22

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	72.0 x 216.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-07-12,	2023-07-12
psSAR1g [W/kg]	0.394	0.385
psSAR10g [W/kg]	0.188	0.184
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		49.0
Dist 3dB Peak [mm]		8.5



Appendix D. Maximum Target Conducted Power

The maximum conducted average power (Unit: dBm) including tune-up tolerance is shown as below.

LTE Max. Tune-up Power (Full)		
Mode	QPSK	16QAM
	Maximum Target Power	Maximum Target Power
LTE 2	23.0	22.0
LTE 4	22.5	21.5
LTE 12	23.5	22.5

Tune-up Power (Full)			
WLAN 2.4GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11b	1	2412	20.5
	6	2437	20.5
	11	2462	20.5
802.11g	1	2412	20.0
	6	2437	20.0
	11	2462	17.0
802.11n HT20	1	2412	20.0
	6	2437	20.0
	11	2462	17.0

Tune-up Power (Full)			
Bluetooth			
Mode	Channel	Frequency	Ant 0 Max Tune up
BR / EDR	0	2402	12.0
	39	2441	12.0
	78	2480	12.0
LE	0	2402	9.0
	19	2440	9.0
	39	2480	9.0

Tune-up Power (Full)			
WLAN 5.2GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	36	5180	19.5
	40	5200	19.5
	44	5220	19.5
	48	5240	19.5
802.11n HT20	36	5180	19.5
	40	5200	19.5
	44	5220	19.5
	48	5240	19.5
802.11n HT40	38	5190	20.0
	46	5230	15.5
802.11ac VHT20	36	5180	19.5
	40	5200	19.5
	44	5220	19.5
	48	5240	19.5
802.11ac VHT40	38	5190	20.0
	46	5230	15.5
802.11ac VHT80	42	5210	14.0

Tune-up Power (Full)			
WLAN 5.3GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	52	5260	19.5
	56	5280	19.5
	60	5300	19.5
	64	5320	19.5
802.11n HT20	52	5260	19.5
	56	5280	19.5
	60	5300	19.5
	64	5320	19.5
802.11n HT40	54	5270	20.0
	62	5310	15.5
802.11ac VHT20	52	5260	19.5
	56	5280	19.5
	60	5300	19.5
	64	5320	19.5
802.11ac VHT40	54	5270	20.0
	62	5310	15.5
802.11ac VHT80	58	5290	14.0

Tune-up Power (Full)			
WLAN 5.6GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	100	5500	19.5
	116	5580	19.5
	120	5600	19.5
	124	5620	19.5
	132	5660	15.5
	140	5700	15.5
802.11n HT20	100	5500	19.5
	116	5580	19.5
	120	5600	19.5
	124	5620	19.5
	132	5660	19.5
	140	5700	15.5
802.11n HT40	102	5510	17.0
	110	5550	20.0
	118	5590	20.0
	126	5630	20.0
	134	5670	18.0
802.11ac VHT20	100	5500	19.5
	116	5580	19.5
	120	5600	19.5
	124	5620	19.5
	132	5660	19.5
	140	5700	15.5
802.11ac VHT40	102	5510	17.0
	110	5550	20.0
	118	5590	20.0
	126	5630	20.0
	134	5670	18.0
802.11ac VHT80	106	5530	15.0
	122	5610	19.0

Tune-up Power (Full)			
WLAN 5.8GHz			
Mode	Channel	Frequency	SISO Ant 0 Max Tune up
802.11a	149	5745	19.5
	153	5765	19.5
	157	5785	19.5
	161	5805	19.5
	165	5825	19.5
802.11n HT20	149	5745	19.5
	153	5765	19.5
	157	5785	19.5
	161	5805	19.5
	165	5825	19.5
802.11n HT40	151	5755	20.0
	159	5795	20.0
802.11ac VHT20	149	5745	19.5
	153	5765	19.5
	157	5785	19.5
	161	5805	19.5
	165	5825	19.5
802.11ac VHT40	151	5755	20.0
	159	5795	20.0
802.11ac VHT80	155	5775	19.0

Appendix E. Measured Conducted Power Result

The measuring conducted power (Unit: dBm) are shown as below.

LTE Conducted Power (Full)

LTE Band 2

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		18700	18900	19100	
		Frequence (MHz)		1860	1880	1900	
20M	QPSK	1	0	22.42	22.53	22.43	0
		1	50	22.36	22.48	22.41	0
		1	99	22.32	22.45	22.39	0
		50	0	21.46	21.59	21.38	1
		50	25	21.17	21.36	21.14	1
		50	50	21.49	21.45	21.42	1
		100	0	21.54	21.55	21.55	1
20M	16QAM	1	0	21.42	21.58	21.46	1
		1	50	21.36	21.58	21.57	1
		1	99	21.47	21.51	21.48	1
		50	0	20.57	20.57	20.68	2
		50	25	20.41	20.31	20.21	2
		50	50	20.52	20.72	20.55	2
		100	0	20.77	20.61	20.69	2
BW	MCS Index	Channel		18675	18900	19125	3GPP MPR
		Frequence (MHz)		1857.5	1880	1902.5	
15M	QPSK	1	0	22.38	22.46	22.37	0
		1	37	22.37	22.40	22.33	0
		1	74	22.27	22.31	22.28	0
		36	0	21.41	21.52	21.47	1
		36	19	21.32	21.44	21.32	1
		36	39	21.32	21.36	21.34	1
		75	0	21.37	21.42	21.41	1
15M	16QAM	1	0	21.41	21.51	21.53	1
		1	37	21.49	21.51	21.50	1
		1	74	21.35	21.54	21.39	1
		36	0	20.67	20.72	20.64	2
		36	19	20.51	20.62	20.37	2
		36	39	20.45	20.49	20.63	2
		75	0	20.52	20.70	20.51	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18650	18900	19150	3GPP MPR
		Frequence (MHz)		1855	1880	1905	
10M	QPSK	1	0	22.29	22.39	22.33	0
		1	24	22.22	22.31	22.24	0
		1	49	22.09	22.21	22.10	0
		25	0	21.28	21.33	21.23	1
		25	12	21.29	21.41	21.36	1
		25	25	21.32	21.39	21.26	1
		50	0	21.28	21.37	21.24	1
10M	16QAM	1	0	21.52	21.39	21.49	1
		1	24	21.46	21.49	21.45	1
		1	49	21.26	21.28	21.38	1
		25	0	20.40	20.57	20.43	2
		25	12	20.36	20.45	20.46	2
		25	25	20.46	20.40	20.53	2
		50	0	20.28	20.64	20.28	2
BW	MCS Index	Channel		18625	18900	19175	3GPP MPR
		Frequence (MHz)		1852.5	1880	1907.5	
5M	QPSK	1	0	22.39	22.41	22.33	0
		1	12	22.26	22.35	22.33	0
		1	24	22.14	22.23	22.15	0
		12	0	21.39	21.42	21.40	1
		12	6	21.18	21.27	21.25	1
		12	13	21.17	21.23	21.17	1
		25	0	21.33	21.43	21.37	1
5M	16QAM	1	0	21.66	21.45	21.45	1
		1	12	21.46	21.57	21.36	1
		1	24	21.41	21.30	21.16	1
		12	0	20.67	20.44	20.45	2
		12	6	20.33	20.32	20.46	2
		12	13	20.40	20.35	20.26	2
		25	0	20.36	20.65	20.63	2

LTE Conducted Power (Full)							
LTE Band 2							
BW	MCS Index	Channel		18615	18900	19185	3GPP MPR
		Frequence (MHz)		1851.5	1880	1908.5	
3M	QPSK	1	0	22.14	22.23	22.12	0
		1	7	22.33	22.34	22.31	0
		1	14	22.26	22.29	22.22	0
		8	0	21.22	21.32	21.30	1
		8	3	21.22	21.29	21.27	1
		8	7	21.19	21.24	21.12	1
		15	0	21.26	21.27	21.23	1
3M	16QAM	1	0	21.35	21.31	21.16	1
		1	7	21.52	21.43	21.31	1
		1	14	21.29	21.49	21.44	1
		8	0	20.52	20.33	20.44	2
		8	3	20.24	20.50	20.56	2
		8	7	20.40	20.53	20.17	2
		15	0	20.43	20.27	20.29	2
BW	MCS Index	Channel		18607	18900	19193	3GPP MPR
		Frequence (MHz)		1850.7	1880	1909.3	
1.4M	QPSK	1	0	22.11	22.21	22.08	0
		1	2	22.25	22.32	22.28	0
		1	5	22.13	22.23	22.11	0
		3	0	22.16	22.28	22.23	0
		3	1	22.22	22.32	22.26	0
		3	3	22.04	22.09	22.08	0
		6	0	21.12	21.21	21.13	1
1.4M	16QAM	1	0	21.22	21.50	21.26	1
		1	2	21.39	21.62	21.33	1
		1	5	21.15	21.40	21.23	1
		3	0	21.24	21.37	21.29	1
		3	1	21.40	21.49	21.31	1
		3	3	21.24	21.13	21.18	1
		6	0	20.34	20.51	20.15	2

LTE Conducted Power (Full)

LTE Band 4

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20050	20175	20300	
		Frequence (MHz)		1720	1732.5	1745	
20M	QPSK	1	0	22.40	22.48	22.45	0
		1	50	22.34	22.43	22.40	0
		1	99	22.32	22.41	22.38	0
		50	0	21.27	21.36	21.33	1
		50	25	21.21	21.30	21.27	1
		50	50	21.22	21.31	21.28	1
		100	0	21.18	21.27	21.24	1
20M	16QAM	1	0	21.44	21.45	21.41	1
		1	50	21.38	21.43	21.35	1
		1	99	21.34	21.39	21.31	1
		50	0	20.33	20.42	20.39	2
		50	25	20.33	20.42	20.39	2
		50	50	20.37	20.46	20.43	2
		100	0	20.30	20.39	20.36	2
BW	MCS Index	Channel		20025	20175	20325	3GPP MPR
		Frequence (MHz)		1717.5	1732.5	1747.5	
15M	QPSK	1	0	22.34	22.44	22.44	0
		1	37	22.27	22.36	22.38	0
		1	74	22.26	22.41	22.34	0
		36	0	21.26	21.27	21.25	1
		36	19	21.15	21.30	21.19	1
		36	39	21.15	21.23	21.22	1
		75	0	21.12	21.19	21.20	1
15M	16QAM	1	0	21.50	21.62	21.52	1
		1	37	21.67	21.76	21.68	1
		1	74	21.54	21.60	21.52	1
		36	0	20.26	20.39	20.32	2
		36	19	20.30	20.42	20.31	2
		36	39	20.31	20.43	20.35	2
		75	0	20.25	20.35	20.36	2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		20000	20175	20350	3GPP MPR
		Frequence (MHz)		1715	1732.5	1750	
10M	QPSK	1	0	22.28	22.40	22.39	0
		1	24	22.21	22.30	22.36	0
		1	49	22.25	22.31	22.23	0
		25	0	21.25	21.19	21.14	1
		25	12	21.15	21.27	21.07	1
		25	25	21.11	21.09	21.16	1
		50	0	21.07	21.16	21.14	1
10M	16QAM	1	0	21.45	21.59	21.40	1
		1	24	21.65	21.63	21.65	1
		1	49	21.49	21.51	21.40	1
		25	0	20.15	20.36	20.26	2
		25	12	20.21	20.42	20.26	2
		25	25	20.18	20.31	20.29	2
		50	0	20.11	20.33	20.34	2
BW	MCS Index	Channel		19975	20175	20375	3GPP MPR
		Frequence (MHz)		1712.5	1732.5	1752.5	
5M	QPSK	1	0	22.33	22.40	22.34	0
		1	12	22.23	22.25	22.33	0
		1	24	22.19	22.31	22.09	0
		12	0	21.18	21.23	21.06	1
		12	6	21.05	21.21	21.01	1
		12	13	21.14	21.09	21.05	1
		25	0	21.04	21.18	21.07	1
5M	16QAM	1	0	21.40	21.52	21.50	1
		1	12	21.54	21.72	21.61	1
		1	24	21.44	21.48	21.37	1
		12	0	20.23	20.27	20.32	2
		12	6	20.21	20.32	20.25	2
		12	13	20.22	20.29	20.22	2
		25	0	20.22	20.24	20.30	2

LTE Conducted Power (Full)							
LTE Band 4							
BW	MCS Index	Channel		19965	20175	20385	3GPP MPR
		Frequence (MHz)		1711.5	1732.5	1753.5	
3M	QPSK	1	0	22.27	22.44	22.44	0
		1	7	22.15	22.29	22.26	0
		1	14	22.12	22.27	22.32	0
		8	0	21.14	21.19	21.25	1
		8	3	21.08	21.15	21.19	1
		8	7	21.14	21.09	21.16	1
		15	0	21.01	21.05	21.07	1
3M	16QAM	1	0	21.39	21.56	21.47	1
		1	7	21.58	21.76	21.67	1
		1	14	21.39	21.47	21.43	1
		8	0	20.17	20.30	20.29	2
		8	3	20.20	20.29	20.25	2
		8	7	20.26	20.34	20.22	2
		15	0	20.12	20.23	20.32	2
BW	MCS Index	Channel		19957	20175	20393	3GPP MPR
		Frequence (MHz)		1710.7	1732.5	1754.3	
1.4M	QPSK	1	0	22.20	22.35	22.31	0
		1	2	22.15	22.24	22.24	0
		1	5	22.16	22.34	22.25	0
		3	0	22.18	22.13	22.16	0
		3	1	22.04	22.25	22.17	0
		3	3	22.13	22.11	22.21	0
		6	0	21.11	21.16	21.11	1
1.4M	16QAM	1	0	21.45	21.48	21.43	1
		1	2	21.52	21.67	21.66	1
		1	5	21.42	21.54	21.41	1
		3	0	21.15	21.34	21.18	1
		3	1	21.24	21.33	21.19	1
		3	3	21.20	21.38	21.24	1
		6	0	20.24	20.22	20.21	2

LTE Conducted Power (Full)

LTE Band 12

BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		23060	23095	23130	
		Frequence (MHz)		704	707.5	711	
10M	QPSK	1	0	23.06	23.15	23.06	0
		1	24	22.97	23.11	22.88	0
		1	49	22.79	22.99	22.84	0
		25	0	22.33	22.35	22.24	1
		25	12	22.05	22.06	22.02	1
		25	25	21.82	21.84	21.73	1
		50	0	22.17	22.22	22.12	1
10M	16QAM	1	0	22.15	22.14	22.10	1
		1	24	21.85	21.87	21.76	1
		1	49	22.12	22.14	22.03	1
		25	0	21.04	21.06	20.95	2
		25	12	20.96	20.98	20.87	2
		25	25	21.03	21.05	20.94	2
		50	0	20.78	20.80	20.69	2
BW	MCS Index	Channel		23035	23095	23155	3GPP MPR
		Frequence (MHz)		701.5	707.5	713.5	
5M	QPSK	1	0	23.01	23.02	22.90	0
		1	12	22.91	22.94	22.81	0
		1	24	22.74	22.71	22.64	0
		12	0	21.83	21.85	21.78	1
		12	6	21.90	21.91	21.77	1
		12	13	21.74	21.78	21.64	1
		25	0	21.76	21.69	21.66	1
5M	16QAM	1	0	22.31	22.33	22.22	1
		1	12	21.80	21.77	21.75	1
		1	24	22.03	22.08	21.97	1
		12	0	21.04	21.06	20.88	2
		12	6	20.92	20.95	20.86	2
		12	13	21.02	21.05	20.85	2
		25	0	20.72	20.79	20.61	2

LTE Conducted Power (Full)							
LTE Band 12							
BW	MCS Index	Channel		23025	23095	23165	3GPP MPR
		Frequence (MHz)		700.5	707.5	714.5	
3M	QPSK	1	0	22.88	22.96	22.75	0
		1	7	22.86	22.89	22.77	0
		1	14	22.66	22.62	22.63	0
		8	0	21.68	21.83	21.66	1
		8	3	21.84	21.77	21.71	1
		8	7	21.62	21.68	21.49	1
		15	0	21.67	21.56	21.56	1
3M	16QAM	1	0	22.26	22.29	22.12	1
		1	7	21.73	21.76	21.67	1
		1	14	21.88	21.94	21.94	1
		8	0	20.98	20.93	20.81	2
		8	3	20.82	20.88	20.85	2
		8	7	20.92	20.99	20.78	2
		15	0	20.64	20.75	20.48	2
BW	MCS Index	Channel		23017	23095	23173	3GPP MPR
		Frequence (MHz)		699.7	707.5	715.3	
1.4M	QPSK	1	0	22.98	23.00	22.64	0
		1	2	22.80	22.89	22.63	0
		1	5	22.72	22.60	22.50	0
		3	0	21.74	21.84	21.54	0
		3	1	21.75	21.77	21.63	0
		3	3	21.69	21.75	21.51	0
		6	0	21.76	21.61	21.54	1
1.4M	16QAM	1	0	22.30	22.23	22.13	1
		1	2	21.78	21.74	21.74	1
		1	5	21.97	21.93	21.83	1
		3	0	21.02	21.02	20.87	1
		3	1	20.87	20.87	20.81	1
		3	3	20.93	21.01	20.81	1
		6	0	20.70	20.75	20.55	2

Conducted Power (Full)			
WLAN2.4GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11b	1	2412	20.06
	6	2437	20.25
	11	2462	20.14
802.11g	1	2412	18.95
	6	2437	19.87
	11	2462	16.94
802.11n HT20	1	2412	18.77
	6	2437	19.72
	11	2462	16.81

Conducted Power (Full)			
Bluetooth Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
BR / EDR	0	2402	10.83
	39	2441	11.59
	78	2480	10.84
LE	0	2402	7.67
	19	2440	8.36
	39	2480	8.56

Conducted Power (Full)			
WLAN 5.3GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	52	5260	19.44
	56	5280	19.41
	60	5300	19.39
	64	5320	19.35
802.11n HT20	52	5260	19.11
	56	5280	19.22
	60	5300	19.13
	64	5320	19.07
802.11n HT40	54	5270	19.67
	62	5310	14.81
802.11ac VHT20	52	5260	19.33
	56	5280	19.37
	60	5300	19.35
	64	5320	19.29
802.11ac VHT40	54	5270	19.92
	62	5310	15.04
802.11ac VHT80	58	5290	13.73

Conducted Power (Full)			
WLAN 5.6GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	100	5500	19.28
	116	5580	19.22
	120	5600	19.21
	124	5620	19.19
	132	5660	15.44
	140	5700	15.03
802.11n HT20	100	5500	18.98
	116	5580	18.91
	120	5600	19.45
	124	5620	19.41
	132	5660	19.39
	140	5700	14.96
802.11n HT40	102	5510	16.29
	110	5550	19.38
	118	5590	19.22
	126	5630	19.29
	134	5670	17.54
802.11ac VHT20	100	5500	19.25
	116	5580	19.17
	120	5600	19.35
	124	5620	19.31
	132	5660	19.29
	140	5700	15.22
802.11ac VHT40	102	5510	16.53
	110	5550	19.62
	118	5590	19.37
	126	5630	19.35
	134	5670	17.79
802.11ac VHT80	106	5530	14.86
	122	5610	18.52

Conducted Power (Full)			
WLAN 5.8GHz Ant 0			
Mode	Channel	Frequency	SISO Ant 0 Avg. Power
802.11a	149	5745	19.23
	153	5765	19.31
	157	5785	19.28
	161	5805	19.36
	165	5825	19.26
802.11n HT20	149	5745	18.89
	153	5765	18.79
	157	5785	18.83
	161	5805	18.88
	165	5825	18.84
802.11n HT40	151	5755	19.48
	159	5795	19.51
802.11ac VHT20	149	5745	19.15
	153	5765	19.11
	157	5785	19.18
	161	5805	19.21
	165	5825	19.09
802.11ac VHT40	151	5755	19.74
	159	5795	19.77
802.11ac VHT80	155	5775	18.51

Appendix F. SAR Test Result

SAR Results for Extremity Exposure Condition.

Note:
1. SAR testing for WLAN / BT was performed on the maximum power mode.
2. SAR testing for LTE was performed on the maximum power mode.
3. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

Extremity SAR Test Result

System & Position								SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 2	QPSK20M	Front Face	0	18900	1	0	-	1.00	23.00	22.53	1.11	0.11	0.02	0.02
1	LTE 2	QPSK20M	Rear Face	0	18900	1	0	-	1.00	23.00	22.53	1.11	-0.01	1.79	1.99
	LTE 2	QPSK20M	Left Side	0	18900	1	0	-	1.00	23.00	22.53	1.11	-0.05	0.075	0.08
	LTE 2	QPSK20M	Right Side	0	18900	1	0	-	1.00	23.00	22.53	1.11	0.19	0.044	0.05
	LTE 2	QPSK20M	Top Side	0	18900	1	0	-	1.00	23.00	22.53	1.11	0.01	0.318	0.35
	LTE 2	QPSK20M	Bottom Side	0	18900	1	0	-	1.00	23.00	22.53	1.11	0	<0.001	0.00
	LTE 2	QPSK20M	Front Face	0	18900	50	0	-	1.00	22.00	21.59	1.10	0	<0.001	0.00
	LTE 2	QPSK20M	Rear Face	0	18900	50	0	-	1.00	22.00	21.59	1.10	-0.05	1.26	1.39
	LTE 2	QPSK20M	Left Side	0	18900	50	0	-	1.00	22.00	21.59	1.10	0.18	0.056	0.06
	LTE 2	QPSK20M	Right Side	0	18900	50	0	-	1.00	22.00	21.59	1.10	-0.02	0.034	0.04
	LTE 2	QPSK20M	Top Side	0	18900	50	0	-	1.00	22.00	21.59	1.10	-0.19	0.247	0.27
	LTE 2	QPSK20M	Bottom Side	0	18900	50	0	-	1.00	22.00	21.59	1.10	0	<0.001	0.00
	LTE 2	QPSK20M	Rear Face	0	18700	1	0	-	1.00	23.00	22.42	1.14	0.01	1.72	1.96
	LTE 2	QPSK20M	Rear Face	0	19100	1	0	-	1.00	23.00	22.43	1.14	0.15	1.62	1.85
	LTE 4	QPSK20M	Front Face	0	20175	1	0	-	1.00	22.50	22.48	1.00	0.18	0.059	0.06
2	LTE 4	QPSK20M	Rear Face	0	20175	1	0	-	1.00	22.50	22.48	1.00	0.01	1.57	1.57
	LTE 4	QPSK20M	Left Side	0	20175	1	0	-	1.00	22.50	22.48	1.00	0.07	0.089	0.09
	LTE 4	QPSK20M	Right Side	0	20175	1	0	-	1.00	22.50	22.48	1.00	0.01	0.067	0.07
	LTE 4	QPSK20M	Top Side	0	20175	1	0	-	1.00	22.50	22.48	1.00	-0.15	0.192	0.19
	LTE 4	QPSK20M	Bottom Side	0	20175	1	0	-	1.00	22.50	22.48	1.00	0	<0.001	0.00
	LTE 4	QPSK20M	Front Face	0	20175	50	0	-	1.00	21.50	21.36	1.03	-0.19	0.048	0.05
	LTE 4	QPSK20M	Rear Face	0	20175	50	0	-	1.00	21.50	21.36	1.03	0.05	1.23	1.27
	LTE 4	QPSK20M	Left Side	0	20175	50	0	-	1.00	21.50	21.36	1.03	0.01	0.077	0.08
	LTE 4	QPSK20M	Right Side	0	20175	50	0	-	1.00	21.50	21.36	1.03	0.18	0.054	0.06
	LTE 4	QPSK20M	Top Side	0	20175	50	0	-	1.00	21.50	21.36	1.03	0.1	0.156	0.16
	LTE 4	QPSK20M	Bottom Side	0	20175	50	0	-	1.00	21.50	21.36	1.03	0	<0.001	0.00
	LTE 4	QPSK20M	Rear Face	0	20050	1	0	-	1.00	22.50	22.40	1.02	-0.19	1.49	1.52
	LTE 4	QPSK20M	Rear Face	0	20300	1	0	-	1.00	22.50	22.45	1.01	0.08	1.45	1.46

Extremity SAR Test Result

System & Position								SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	LTE 12	QPSK10M	Front Face	0	23095	1	0	-	1.00	23.50	23.15	1.08	0.12	0.1	0.11
3	LTE 12	QPSK10M	Rear Face	0	23095	1	0	-	1.00	23.50	23.15	1.08	0.02	0.189	0.20
	LTE 12	QPSK10M	Left Side	0	23095	1	0	-	1.00	23.50	23.15	1.08	0.1	0.056	0.06
	LTE 12	QPSK10M	Right Side	0	23095	1	0	-	1.00	23.50	23.15	1.08	0.02	0.175	0.19
	LTE 12	QPSK10M	Top Side	0	23095	1	0	-	1.00	23.50	23.15	1.08	-0.18	0.056	0.06
	LTE 12	QPSK10M	Bottom Side	0	23095	1	0	-	1.00	23.50	23.15	1.08	0	<0.001	0.00
	LTE 12	QPSK10M	Front Face	0	23095	25	0	-	1.00	22.50	22.35	1.04	-0.09	0.07	0.07
	LTE 12	QPSK10M	Rear Face	0	23095	25	0	-	1.00	22.50	22.35	1.04	0.12	0.145	0.15
	LTE 12	QPSK10M	Left Side	0	23095	25	0	-	1.00	22.50	22.35	1.04	-0.01	0.041	0.04
	LTE 12	QPSK10M	Right Side	0	23095	25	0	-	1.00	22.50	22.35	1.04	0.19	0.133	0.14
	LTE 12	QPSK10M	Top Side	0	23095	25	0	-	1.00	22.50	22.35	1.04	-0.08	0.043	0.04
	LTE 12	QPSK10M	Bottom Side	0	23095	25	0	-	1.00	22.50	22.35	1.04	0	<0.001	0.00
	LTE 12	QPSK10M	Rear Face	0	23060	1	0	-	1.00	23.50	23.06	1.11	-0.01	0.179	0.20
	LTE 12	QPSK10M	Rear Face	0	23130	1	0	-	1.00	23.50	23.06	1.11	-0.1	0.177	0.20
	WLAN2.4G	802.11b	Front Face	0	6			97.12	1.03	20.50	20.25	1.06	0.05	0.058	0.06
	WLAN2.4G	802.11b	Rear Face	0	6			97.12	1.03	20.50	20.25	1.06	-0.03	0.22	0.24
	WLAN2.4G	802.11b	Left Side	0	6			97.12	1.03	20.50	20.25	1.06	0.1	0.061	0.07
4	WLAN2.4G	802.11b	Right Side	0	6			97.12	1.03	20.50	20.25	1.06	0.03	1.24	1.35
	WLAN2.4G	802.11b	Top Side	0	6			97.12	1.03	20.50	20.25	1.06	0.05	0.365	0.40
	WLAN2.4G	802.11b	Bottom Side	0	6			97.12	1.03	20.50	20.25	1.06	0	<0.001	0.00
	WLAN2.4G	802.11b	Right Side	0	1			97.12	1.03	20.50	20.06	1.11	0.02	1.17	1.34
	WLAN2.4G	802.11b	Right Side	0	11			97.12	1.03	20.50	20.14	1.09	-0.11	1.01	1.13
	WLAN5.3G	802.11n HT40	Front Face	0	54			91.74	1.09	20.00	19.67	1.08	-0.15	0.092	0.11
	WLAN5.3G	802.11n HT40	Rear Face	0	54			91.74	1.09	20.00	19.67	1.08	-0.16	0.17	0.20
	WLAN5.3G	802.11n HT40	Left Side	0	54			91.74	1.09	20.00	19.67	1.08	0.04	0.041	0.05
5	WLAN5.3G	802.11n HT40	Right Side	0	54			91.74	1.09	20.00	19.67	1.08	0.02	0.503	0.59
	WLAN5.3G	802.11n HT40	Top Side	0	54			91.74	1.09	20.00	19.67	1.08	0.08	0.411	0.48
	WLAN5.3G	802.11n HT40	Bottom Side	0	54			91.74	1.09	20.00	19.67	1.08	0	<0.001	0.00
	WLAN5.3G	802.11n HT40	Right Side	0	62			91.74	1.09	15.50	14.81	1.17	0.02	0.094	0.12

Extremity SAR Test Result

System & Position								SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	RB#	RB offset	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaled SAR-10g (W/kg)
	WLAN5.6G	802.11n HT40	Front Face	0	110			91.74	1.09	20.00	19.38	1.15	0.01	0.098	0.12
	WLAN5.6G	802.11n HT40	Rear Face	0	110			91.74	1.09	20.00	19.38	1.15	-0.09	0.244	0.31
	WLAN5.6G	802.11n HT40	Left Side	0	110			91.74	1.09	20.00	19.38	1.15	0.05	0.052	0.07
6	WLAN5.6G	802.11n HT40	Right Side	0	110			91.74	1.09	20.00	19.38	1.15	0.01	0.633	0.79
	WLAN5.6G	802.11n HT40	Top Side	0	110			91.74	1.09	20.00	19.38	1.15	0.07	0.475	0.60
	WLAN5.6G	802.11n HT40	Bottom Side	0	110			91.74	1.09	20.00	19.38	1.15	0	<0.001	0.00
	WLAN5.6G	802.11n HT40	Right Side	0	102			91.74	1.09	17.00	16.29	1.18	-0.08	0.247	0.32
	WLAN5.6G	802.11n HT40	Right Side	0	118			91.74	1.09	20.00	19.22	1.20	0.1	0.547	0.72
	WLAN5.6G	802.11n HT40	Right Side	0	126			91.74	1.09	20.00	19.29	1.18	-0.14	0.571	0.73
	WLAN5.6G	802.11n HT40	Right Side	0	134			91.74	1.09	18.00	17.54	1.11	0.12	0.383	0.46
	WLAN5.8G	802.11n HT40	Front Face	0	159			91.74	1.09	20.00	19.51	1.12	-0.11	0.056	0.07
	WLAN5.8G	802.11n HT40	Rear Face	0	159			91.74	1.09	20.00	19.51	1.12	-0.06	0.304	0.37
	WLAN5.8G	802.11n HT40	Left Side	0	159			91.74	1.09	20.00	19.51	1.12	-0.1	0.046	0.06
	WLAN5.8G	802.11n HT40	Right Side	0	159			91.74	1.09	20.00	19.51	1.12	0.12	0.532	0.65
	WLAN5.8G	802.11n HT40	Top Side	0	159			91.74	1.09	20.00	19.51	1.12	0.13	0.557	0.68
	WLAN5.8G	802.11n HT40	Bottom Side	0	159			91.74	1.09	20.00	19.51	1.12	0	<0.001	0.00
7	WLAN5.8G	802.11n HT40	Top Side	0	151			91.74	1.09	20.00	19.48	1.13	0.01	0.634	0.78
	BT	BDR	Front Face	0	39			77.36	1.29	12.00	11.59	1.10	0	<0.001	0.00
	BT	BDR	Rear Face	0	39			77.36	1.29	12.00	11.59	1.10	-0.03	0.022	0.03
	BT	BDR	Left Side	0	39			77.36	1.29	12.00	11.59	1.10	0	<0.001	0.00
8	BT	BDR	Right Side	0	39			77.36	1.29	12.00	11.59	1.10	0.01	0.184	0.26
	BT	BDR	Top Side	0	39			77.36	1.29	12.00	11.59	1.10	0	<0.001	0.00
	BT	BDR	Bottom Side	0	39			77.36	1.29	12.00	11.59	1.10	-0.19	0.041	0.06
	BT	BDR	Right Side	0	0			77.36	1.29	12.00	10.83	1.31	-0.14	0.143	0.24
	BT	BDR	Right Side	0	78			77.36	1.29	12.00	10.84	1.31	-0.03	0.15	0.25

Appendix H. Analysis of Simultaneous Transmission.

The analysis of simultaneous transmission SAR are shown as below.

<Possibilities of Simultaneous Transmission>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Extremity Exposure Condition
A	WWAN + WLAN 2.4G + WLAN 5G + BT + NFC	Yes

Simultaneous Transmission SAR Evaluation (Extremity)							
Band	Position	1	2	3	4	5	A(1+2+3+4+5)
		Max WWAN	Max WLAN 2.4GHz	Max WLAN 5GHz	Max BT Ant 0	NFC	Summimg result
		10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg	10g SAR W/kg
LTE 2	Front Face	0.02	0.06	0.12	0.00	0.00	0.20
	Rear Face	1.99	0.24	0.37	0.03	0.00	2.63
	Left Side	0.08	0.07	0.07	0.00	0.00	0.22
	Right Side	0.05	1.35	0.79	0.26	0.00	2.45
	Top Side	0.35	0.40	0.78	0.00	0.00	1.53
	Bottom Side	0.00	0.00	0.00	0.06	0.00	0.06
LTE 4	Front Face	0.06	0.06	0.12	0.00	0.00	0.24
	Rear Face	1.57	0.24	0.37	0.03	0.00	2.21
	Left Side	0.09	0.07	0.07	0.00	0.00	0.23
	Right Side	0.07	1.35	0.79	0.26	0.00	2.47
	Top Side	0.19	0.40	0.78	0.00	0.00	1.37
	Bottom Side	0.00	0.00	0.00	0.06	0.00	0.06
LTE 12	Front Face	0.11	0.06	0.12	0.00	0.00	0.29
	Rear Face	0.20	0.24	0.37	0.03	0.00	0.84
	Left Side	0.06	0.07	0.07	0.00	0.00	0.20
	Right Side	0.19	1.35	0.79	0.26	0.00	2.59
	Top Side	0.06	0.40	0.78	0.00	0.00	1.24
	Bottom Side	0.00	0.00	0.00	0.06	0.00	0.06