

Reference Test Report Number: ULR-TC568820300000040F

APPENDIX A: PLOTS FOR SAR MEASUREMENT

WiFi-2.4GHz

Measurement Report for Device, FRONT, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), Channel 6 (2437.0MHz) CHAIN-0

Device Under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device, Mistral	51.0 x 26.0 x 1.63		WiFi Module

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, HSL	FRONT, 5.00	WLAN 2.4GHz	WLAN, 10012-CAB	2437.0, 6	7.59	1.80	39.2

Hardware Setup

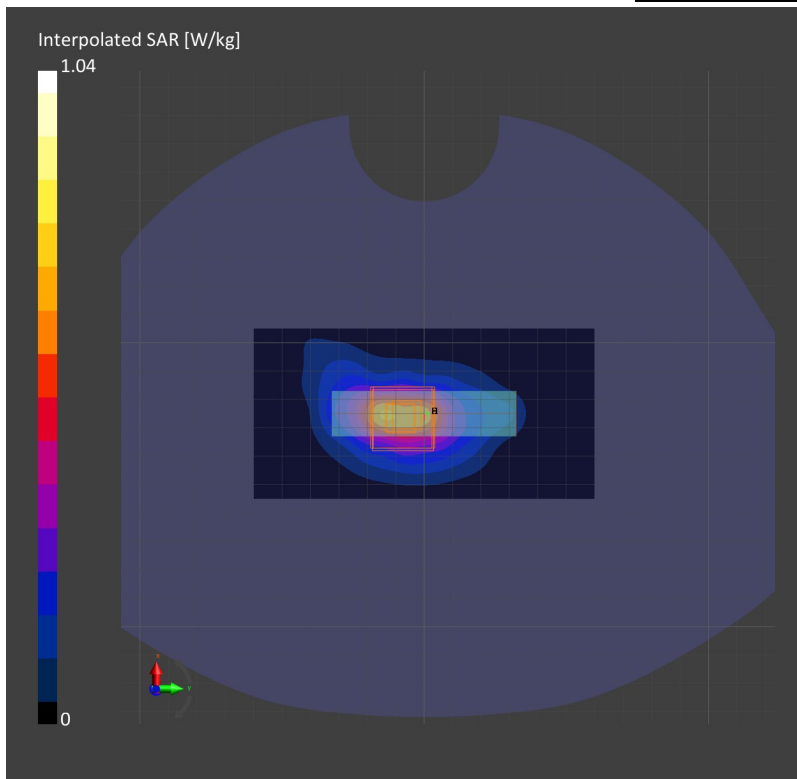
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Sep-01	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	No
Grading Ratio	n/a	n/a
MAIA	N/A	N/A
Surface Detection	6-point verification	6-point verification
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-09-01, 10:53	2020-09-01, 11:04
psSAR1g [W/Kg]	0.530	0.557
psSAR10g [W/Kg]	0.258	0.275
Power Drift [dB]	-0.09	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		
TDist 3dB Peak [mm]		



Measurement Report for Device, FRONT, WLAN 2.4GHz, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps), Channel 1 (2412.0 MHz) CHAIN-1

Device Under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device, Mistral	51.0 x 26.0 x 1.63.0		WiFi Module

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, HSL	FRONT, 5.00	WLAN 2.4GHz	WLAN, 10012-CAB	2412.0, 1	7.59	1.80	39.2

Hardware Setup

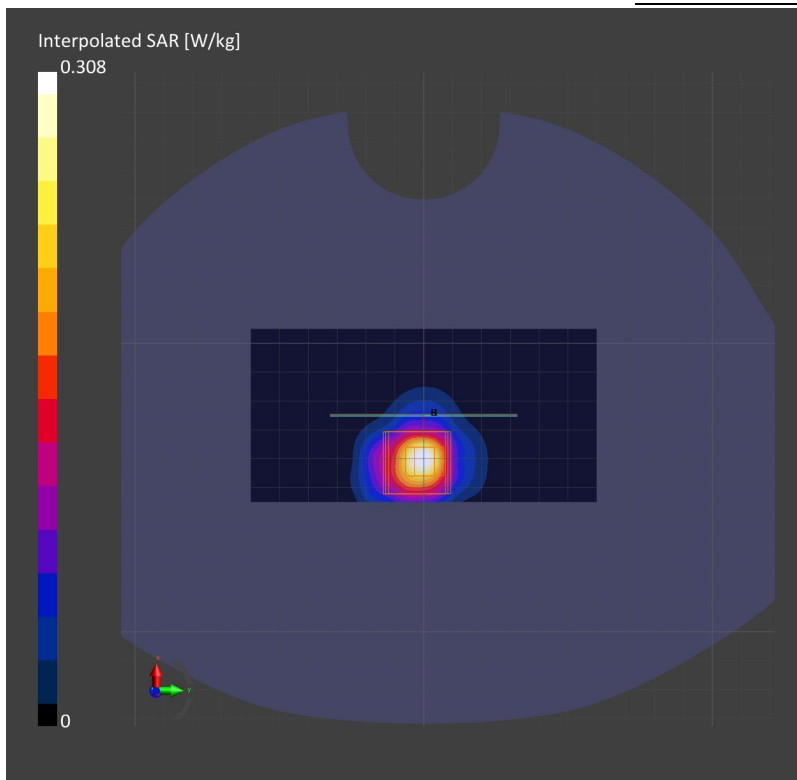
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Sep-01	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	No
Grading Ratio	n/a	n/a
MAIA	N/A	N/A
Surface Detection	6-point verification	6-point verification
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-09-01, 12:58	2020-09-01, 13:03
psSAR1g [W/Kg]	0.112	0.114
psSAR10g [W/Kg]	0.049	0.050
Power Drift [dB]	0.04	-0.00
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		
TDist 3dB Peak [mm]		



Bluetooth-EDR

Measurement Report for Device, FRONT, ISM 2.4 GHz Band, IEEE 802.15.1 Bluetooth (GFSK, DH1), Channel 0 (2402.0 MHz)

Device Under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device, Mistral	51.0 x 26.0 x 1.63		WiFi Module

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, HSL	FRONT, 5.00	ISM 2.4 GHz Band	Bluetooth, 10030-CAA	2402.0, 0	7.59	1.80	39..2

Hardware Setup

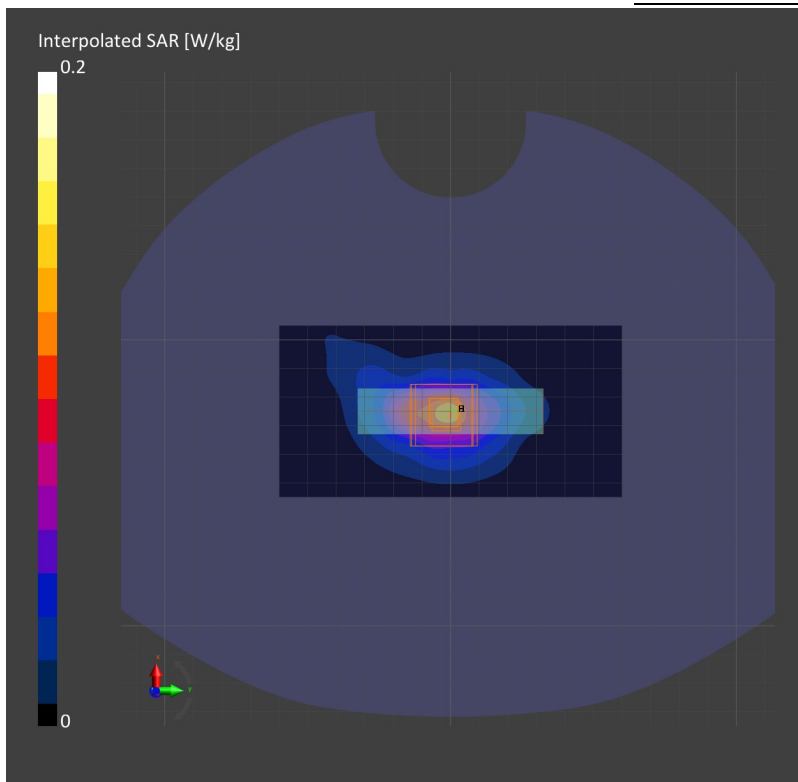
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Sep-01	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 5.0
Sensor Surface [mm]	3.0	1.4
Graded Grid	No	No
Grading Ratio	n/a	n/a
MAIA	N/A	N/A
Surface Detection	6-point verification	6-point verification
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-09-01, 15:25	2020-09-01, 15:29
psSAR1g [W/Kg]	0.094	0.099
psSAR10g [W/Kg]	0.045	0.049
Power Drift [dB]	-0.01	-0.05
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		
TDist 3dB Peak [mm]		



WiFi-5GHz

Measurement Report for Device, FRONT, U-NII-1, U-NII-2A, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps), Channel 64 (5320.0 MHz) CHAIN-0

Device Under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device, Mistral	51.0 x 26.0 x 1.63		WiFi Module

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, HSL	FRONT, 5.00	U-NII-1, U-NII-2A	WLAN, 10062-CAC	5320.0, 64	5.14	4.79	35.5

Hardware Setup

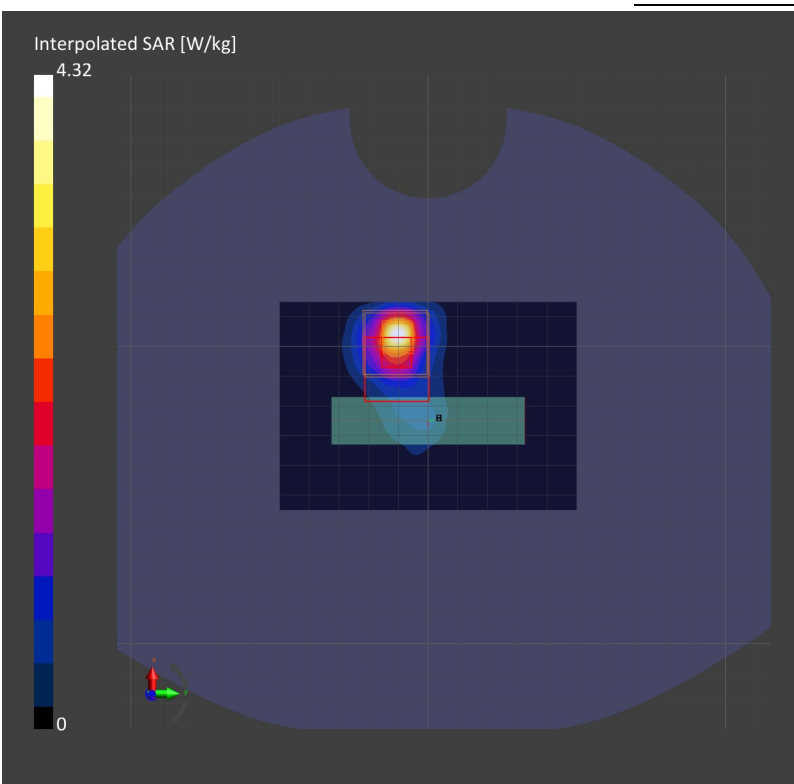
Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Sep-02	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 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
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	VMS + 6p	VMS + 6p
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-09-02, 10:43	2020-09-02, 10:51
psSAR1g [W/Kg]	0.652	0.689
psSAR10g [W/Kg]	0.167	0.194
Power Drift [dB]	-0.04	0.11
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		64.5
TDist 3dB Peak [mm]		6.1



Measurement Report for Device, FRONT, U-NII-1, U-NII-2A, IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps), Channel 64 (5320.0 MHz) CHAIN-1

Device Under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
Device, Mistral	51.0 x 26.0 x 1.63		WiFi Module

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, HSL	FRONT, 5.00	U-NII-1, U-NII-2A	WLAN, 10062-CAC	5320.0, 64	5.14	4.79	35.5

Hardware Setup

Phantom	TSL, Measured Date	Probe, Calibration Date	DAE, Calibration Date
Twin-SAM V4.0 (30deg probe tilt) - 1351	HBBL-600-10000 Charge:xxxx, 2020-Sep-02	EX3DV4 - SN7374, 2019-10-28	DAE4 Sn640, 2019-10-11

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	60.0 x 100.0	22.0 x 22.0 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
Graded Grid	No	Yes
Grading Ratio	n/a	1.4
MAIA	N/A	N/A
Surface Detection	6-point verification	6-point verification
Scan Method	Measured	Measured

Measurement Results

	Area Scan	Zoom Scan
Date	2020-09-02, 11:22	2020-09-02, 11:29
psSAR1g [W/Kg]	0.377	0.458
psSAR10g [W/Kg]	0.104	0.129
Power Drift [dB]	-0.07	-0.07
Power Scaling	Disabled	Disabled
Scaling Factor [dB]		
TSL Correction	No correction	No correction
M2/M1 [%]		
TDist 3dB Peak [mm]		

