

GSM 850: GPRS-FDD (TDMA, GMSK, TN 0-1), CHEEK

Exposure Conditions

Band	GSM 850	TSL Permittivity	42.3
Frequency [MHz] Channel Number	836.600 190	TSL Conductivity [S/m]	0.957
Group UID	GSM 10024-DAC	Phantom Section TSL	RightHead HSL
Conversion Factor	9.03	Test Distance [mm]	0.00

Hardware Setup

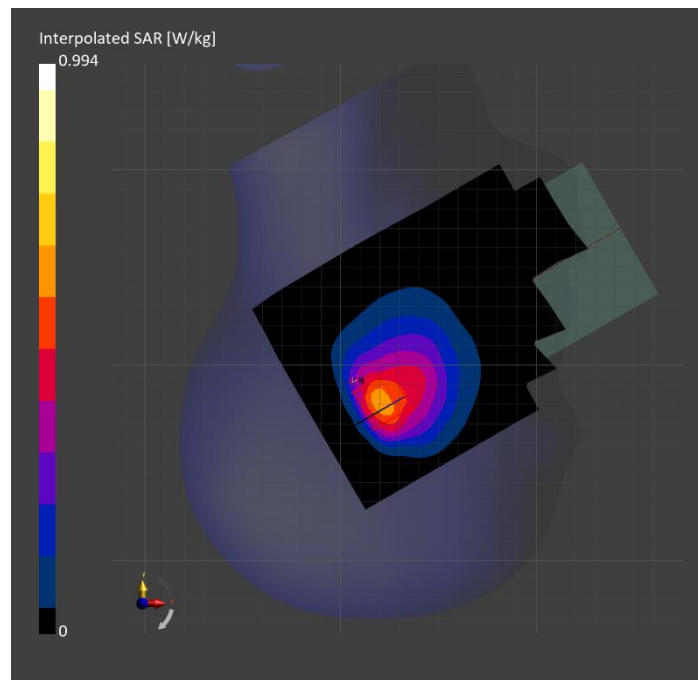
Probe Calibration Date	EX3DV4 - SN7448 2024-02-07	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1784 2024-05-02	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		71.0
Dist 3dB Peak [mm]		6.1
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	0.994 [16.6, -324.7, -176.5]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.532	0.491
psSAR10g [W/Kg]	0.338	0.301
Power Drift [dB]	N/A	0.02



Band 4: UMTS-FDD (WCDMA), TILT

Exposure Conditions

Band	Band 4	TSL Permittivity	42.7
Frequency [MHz] Channel Number	1712.400 1312	TSL Conductivity [S/m]	1.30
Group UID	WCDMA 10011-CAC	Phantom Section TSL	RightHead HSL
Conversion Factor	8.98	Test Distance [mm]	0.00

Hardware Setup

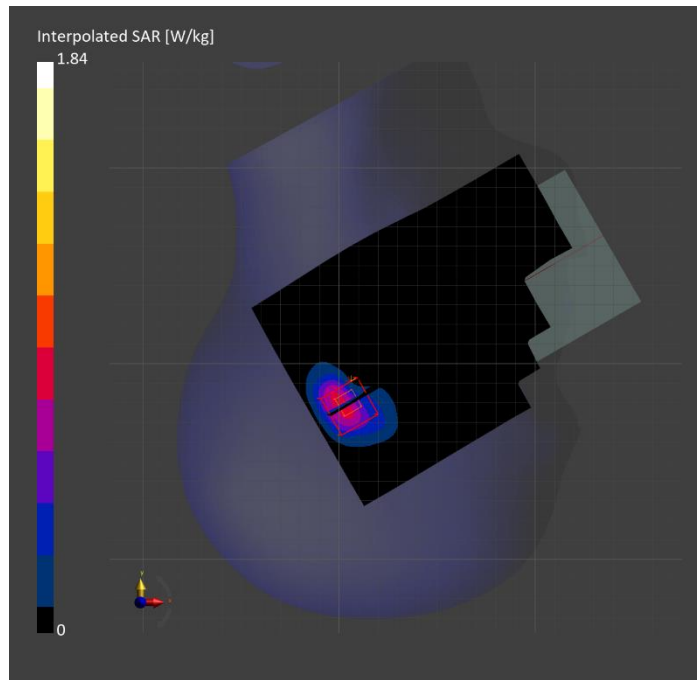
Probe Calibration Date	EX3DV4 - SN3989 2024-01-09	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1433 2024-02-08	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	4.6 x 4.6 x 1.4
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		81.6
Dist 3dB Peak [mm]		6.5
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.84 [4.1, -318.4, -173.1]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.668	0.847
psSAR10g [W/Kg]	0.337	0.390
Power Drift [dB]	0.07	0.00



Band 30: LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK) AntennaCfg:SISO, CHEEK

Exposure Conditions

Band	Band 30	TSL Permittivity	38.2
Frequency [MHz] Channel Number	2310.000 27710	TSL Conductivity [S/m]	1.71
Group UID	LTE-FDD 10108-CAH	Phantom Section TSL	RightHead HSL
Conversion Factor	7.98	Test Distance [mm]	0.00

Hardware Setup

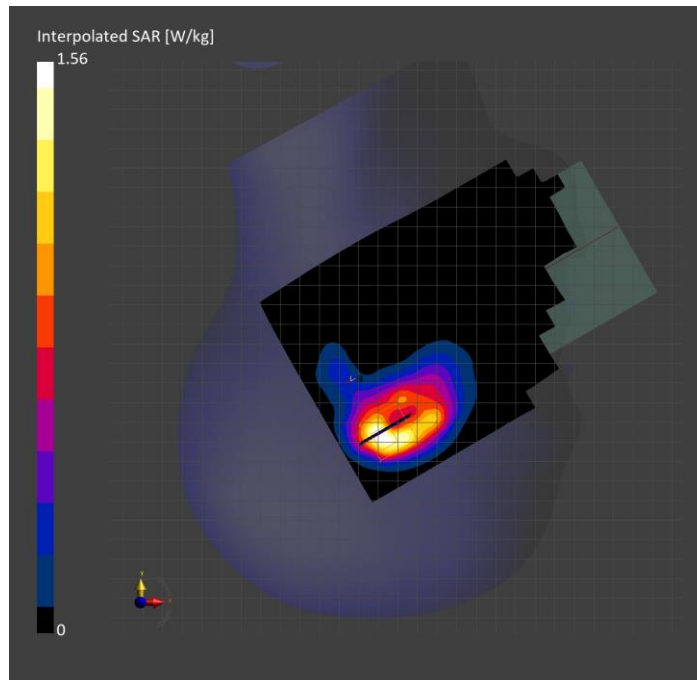
Probe Calibration Date	EX3DV4 - SN3991 2023-10-12	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1380 2024-02-09	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		6.8
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.56 [19.3, -337.3, -173.9]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.604	0.651
psSAR10g [W/Kg]	0.299	0.294
Power Drift [dB]	N/A	0.04



**Band n5: 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz) RBPosition:Low
AntennaCfg:SISO, CHEEK**

Exposure Conditions

Band	Band n5	TSL Permittivity	42.3
Frequency [MHz] Channel Number	836.500 167300	TSL Conductivity [S/m]	0.957
Group UID	5G NR FR1 FDD 10931-AAC	Phantom Section TSL	RightHead HSL
Conversion Factor	9.03	Test Distance [mm]	0.00

Hardware Setup

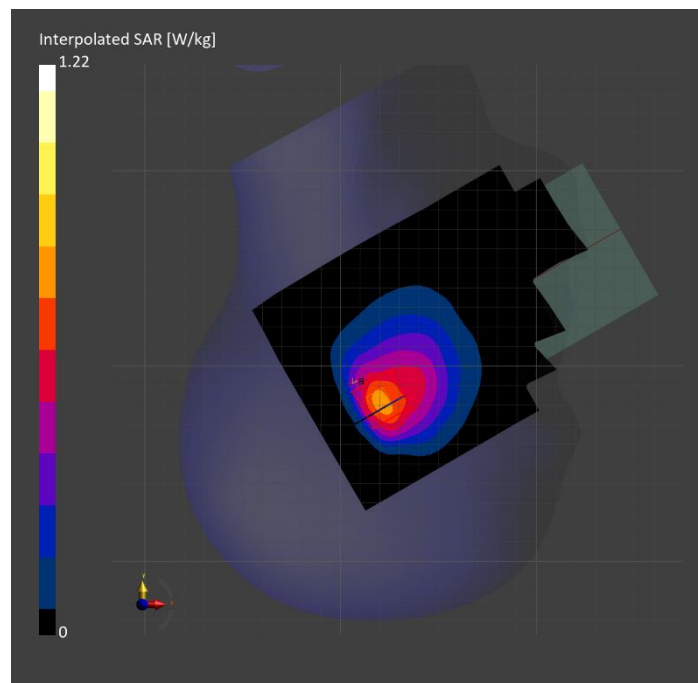
Probe Calibration Date	EX3DV4 - SN7448 2024-02-07	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1784 2024-05-02	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 210.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	6.0 x 6.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		70.4
Dist 3dB Peak [mm]		6.1
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.22 [16.1, -323.9, -176.5]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.640	0.597
psSAR10g [W/Kg]	0.409	0.365
Power Drift [dB]	N/A	0.02



WLAN 2.4GHz: IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle), CHEEK

Exposure Conditions

Band	WLAN 2.4GHz	TSL Permittivity	39.4
Frequency [MHz] Channel Number	2437.000 6	TSL Conductivity [S/m]	1.72
Group UID	WLAN 10415-AAA	Phantom Section TSL	LeftHead HSL
Conversion Factor	7.18	Test Distance [mm]	0.00

Hardware Setup

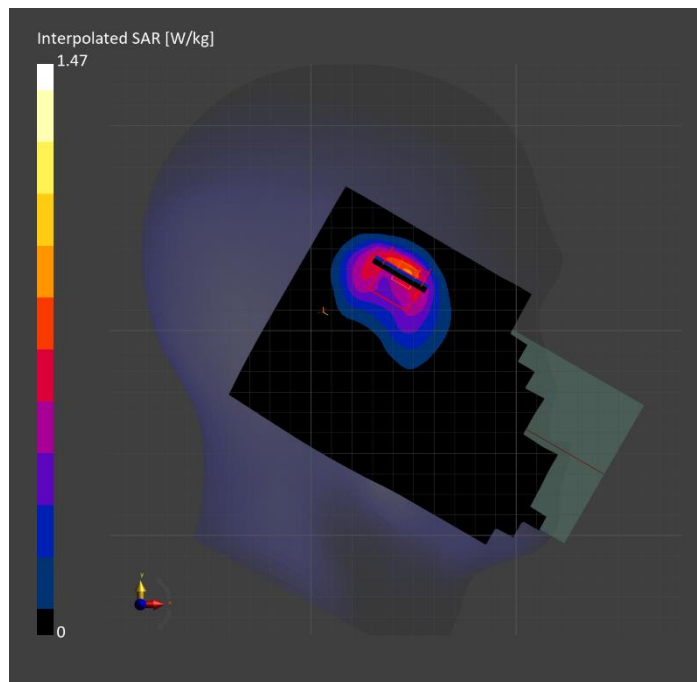
Probe Calibration Date	EX3DV4 - SN3772 2024-02-07	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1258 2024-03-12	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4
Graded Grid	N/A	Yes
M2/M1 [%]		76.8
Dist 3dB Peak [mm]		7.3
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.46 [45.1, 330.1, -174.4]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.637	0.647
psSAR10g [W/Kg]	0.324	0.327
Power Drift [dB]	-0.05	-0.01



WLAN 5GHz: IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle), CHEEK

Exposure Conditions

Band	WLAN 5GHz	TSL Permittivity	35.2
Frequency [MHz] Channel Number	5610.000 122	TSL Conductivity [S/m]	4.93
Group UID	WLAN 10544-AAD	Phantom Section TSL	RightHead HSL
Conversion Factor	4.93	Test Distance [mm]	0.00

Hardware Setup

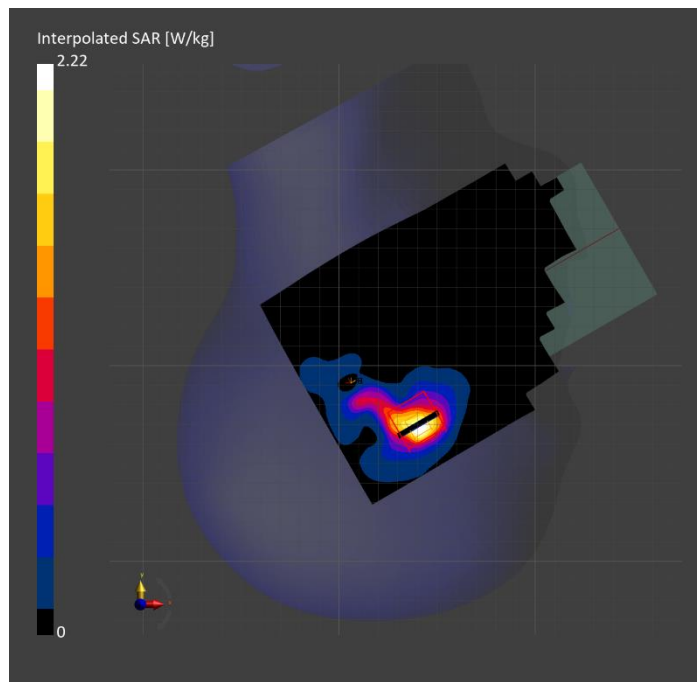
Probe Calibration Date	EX3DV4 - SN3902 2024-03-12	Phantom	Twin-SAM V5.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1799 2023-04-04	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 200.0	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
Graded Grid	N/A	Yes
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		6.7
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	2.22 [41.2, -331.8, -174.5]

Measurement Results

	Area Scan	Zoom Scan
psSAR1g [W/Kg]	0.534	0.537
psSAR10g [W/Kg]	0.190	0.186
Power Drift [dB]	0.02	-0.15



U-NII-6: IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), CHEEK

Exposure Conditions

Band	U-NII-6	TSL Permittivity	32.8
Frequency [MHz] Channel Number	6505.000 111	TSL Conductivity [S/m]	6.09
Group UID	WLAN 10755-AAC	Phantom Section TSL	RightHead HSL
Conversion Factor	4.63	Test Distance [mm]	0.00

Hardware Setup

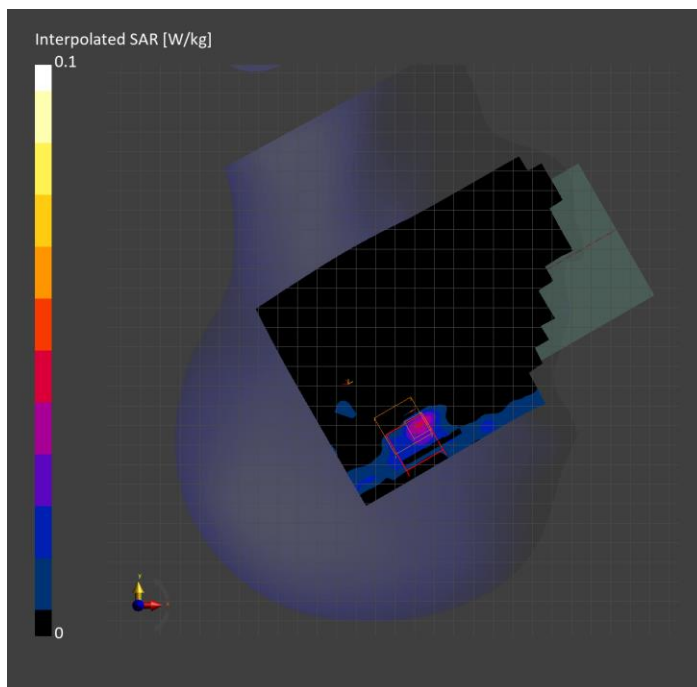
Probe Calibration Date	EX3DV4 - SN7587 2024-04-15	Phantom	Twin-SAM V8.0 (30deg probe tilt)
DAE Calibration Date	DAE4 Sn1797 2024-05-02	TSL Type	HBBL-600-10000
Software Version	16.2.4.2524		

Scan Setup

	Area Scan	Zoom Scan 1	Zoom Scan 2
Grid Extents [mm]	119.0 x 204.0	22.0 x 22.0 x 22.0	22.0 x 22.0 x 22.0
Grid Steps [mm]	8.5 x 8.5	3.4 x 3.4 x 1.4	3.4 x 3.4 x 1.4
Sensor Surface [mm]	3.0	1.4	1.4
Graded Grid	N/A	Yes	Yes
M2/M1 [%]		55.3	53.0
Dist 3dB Peak [mm]		4.1	4.1
Peak SAR [W/kg] SAR Peak Location [mm]	N/A	1.18 [42.6, -330.7, -174.5]	0.890 [42.9, -331.1, -174.5]

Measurement Results

	Area Scan	Zoom Scan 1	Zoom Scan 2	APD 1	APD 2
psSAR1g [W/Kg]	0.030	0.030	0.029	N/A	N/A
psSAR8g [W/Kg]	0.011	0.008	0.009	N/A	N/A
psSAR10g [W/Kg]	0.01	0.008	0.006	N/A	N/A
psAPD (4.0cm ² , sq.) [W/m ²]	N/A	N/A	N/A	0.156	0.173
Power Drift [dB]	-2.20	2.13	-0.24	N/A	N/A



U-NII-7: IEEE 802.11ax (160MHz, MCS0, 99pc duty cycle), EDGE LEFT

Exposure Conditions

Band	U-NII-7	Phantom Section	5G
Frequency [MHz] Channel Number	6665.0 143	Conversion Factor	1.0
Group UID	WLAN, 10755-AAC	Position Test Distance [mm]	EDGE LEFT 2.00

Hardware Setup

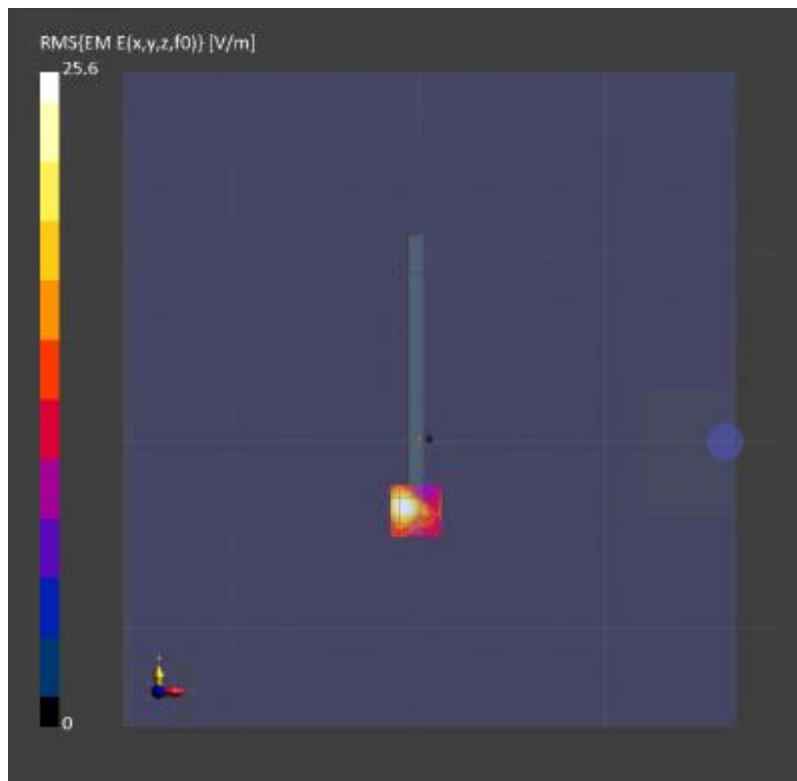
Probe Calibration Date	EUmmWV4 - SN9619_F1-55GHz 2024-03-08	Phantom	mmWave xxxx
DAE Calibration Date	DAE4 Sn1472 2024-01-16	Medium	Air -
Software Version	3.2.0.1840		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.041 x 0.041	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.553
psPDtot+ [W/m ²]	0.645
psPDmod+ [W/m ²]	0.714
E _{max} [V/m]	25.6
Power Drift [dB]	-0.03



FR2 Band n260: CW, EDGE LEFT

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	37050.0 2229167	Conversion Factor	1.0
Group UID	CW, 0--	Position Test Distance [mm]	EDGE LEFT 2.00

Hardware Setup

Probe Calibration Date	EUmmWV4 - SN9589_F1-55GHz 2023-09-05	Phantom	mmWave xxxx
DAE Calibration Date	DAE4ip Sn1621 2024-04-12	Medium	Air -
Software Version	3.2.0.1840		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.25 x 0.25	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	0.331
psPDtot+ [W/m ²]	0.340
psPDmod+ [W/m ²]	0.348
E _{max} [V/m]	17.1
H _{max} [A/m]	0.063
Power Drift [dB]	0.04

