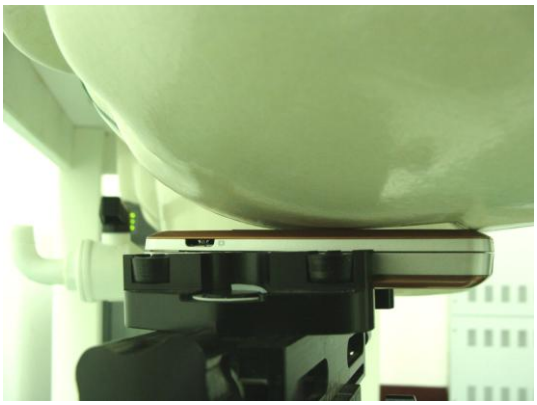
SAR Verification for Phone Holder Position for ZTE F870E (FCC ID: Q78-F870E)

The deviation of verified result for device holder position on the phone sides is very close. Therefore, the device holder may not influence the SAR measurements for this case. The SAR test result, setup photos and SAR plots are as below:

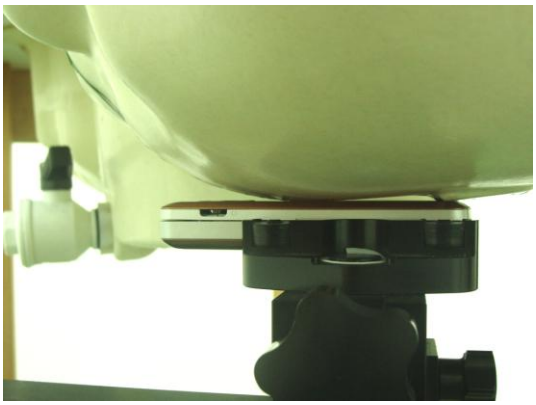
1. Verify SAR Result

Band	Mode	Test Position	Separation Distance (cm)	Channel	DUT Status	SAR_{1g} (W/kg)	Date	Note
GSM850	GSM	Left Cheek	-	251	Slide OFF	**0.677**	10/20	Holds on Lower Side
GSM850	GSM	Left Cheek	-	251	Slide OFF	**0.610**	11/19	Verify for holds on Higher Side
GSM850	GPRS12	Bottom	2.5	251	Slide OFF	**1.24**	10/21	Holds on Lower Side
GSM850	GPRS12	Bottom	2.5	251	Slide OFF	**1.24**	11/19	Verify for holds on Higher Side

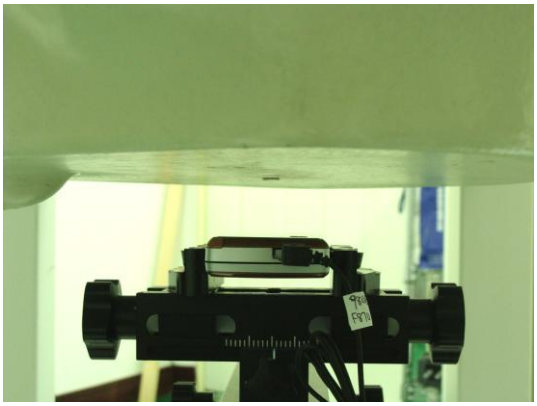
2. Photos of Setup



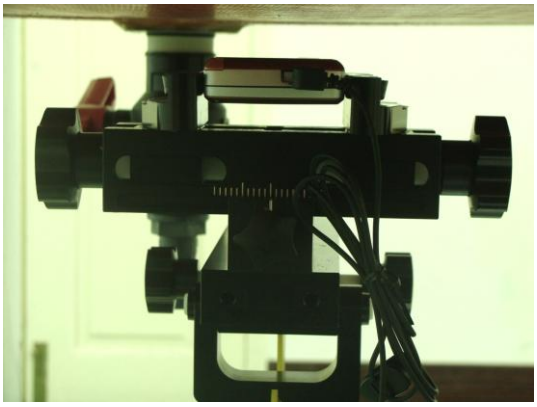
Left Cheek – Holder holds on the Lower Side

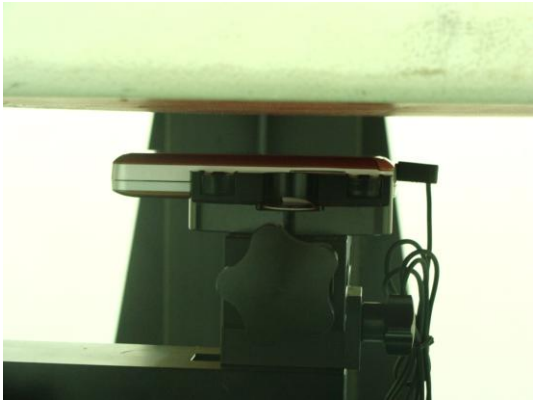


Left Cheek – Holder holds on the Higher Side



Bottom – Holder holds on the Lower Side





Bottom – Holder holds on the Higher Side

3. SAR Plots

<Device Holder holds on the Lower Side>

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2009/10/20

#06 GSM850_Left Cheek Ch251_Slide OFF

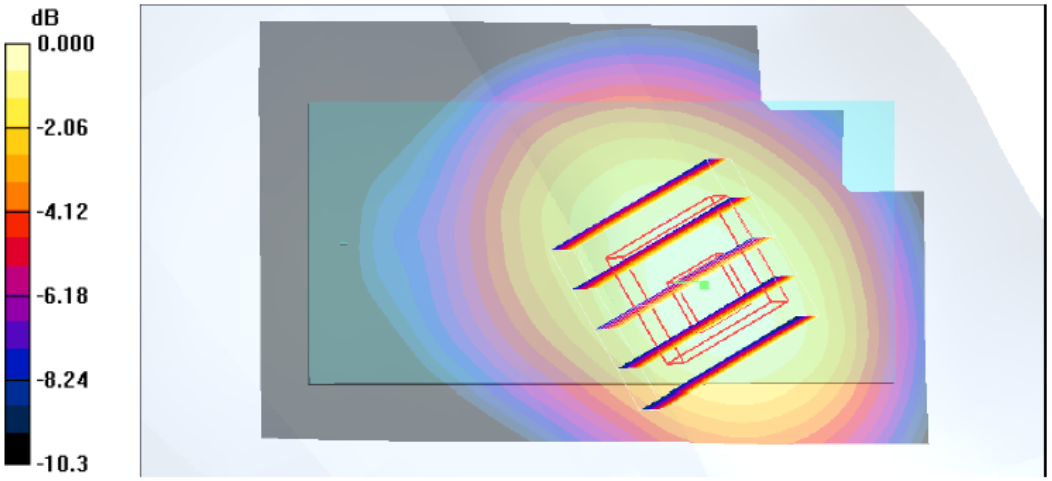
DUT: 981302

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL_850_091020 Medium parameters used: f = 849 MHz; σ = 0.932 mho/m; ε_r = 41.4; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.6 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.3, 6.3, 6.3); Calibrated: 2009/9/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: SAM-Left; Type: QD 000 P40 C; Serial: TP-1477
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.704 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.02 V/m; Power Drift = -0.126 dB
Peak SAR (extrapolated) = 0.925 W/kg
SAR(1 g) = 0.677 mW/g; SAR(10 g) = 0.474 mW/g
Maximum value of SAR (measured) = 0.722 mW/g



0 dB = 0.722mW/g

<Device Holder holds on the Higher Side>

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2009/11/19

#06 GSM850_Left Cheek Ch251_Slide OFF_Verify

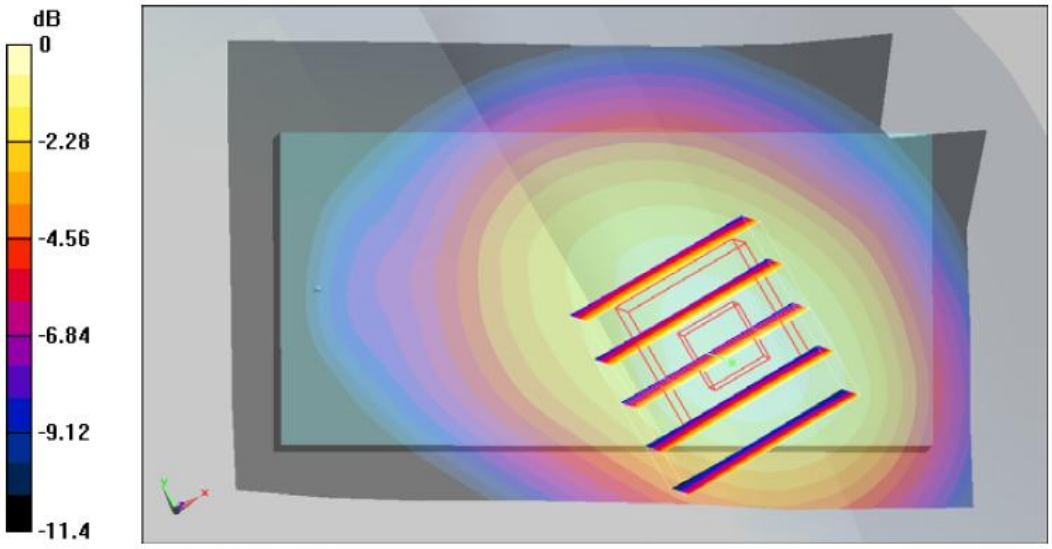
DUT: 981302

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: HSL_850_091119 Medium parameters used: f = 849 MHz; σ = 0.976 mho/m; ε_r = 42.1; ρ = 1000 kg/m^3
Ambient Temperature：22.6 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.3, 6.3, 6.3); Calibrated: 2009/9/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: SAM - Front; Type: SAM; Serial: TP-1446
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Ch251/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 0.640 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.19 V/m; Power Drift = 0.181 dB
Peak SAR (extrapolated) = 0.845 W/kg
SAR(1 g) = 0.610 mW/g; SAR(10 g) = 0.420 mW/g
Maximum value of SAR (measured) = 0.661 mW/g



0 dB = 0.661mW/g

<Device Holder holds on the Lower Side>

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2009/10/21

#16 GSM850_GPRS12_Bottom_2.5cm_ Ch251_Slide OFF

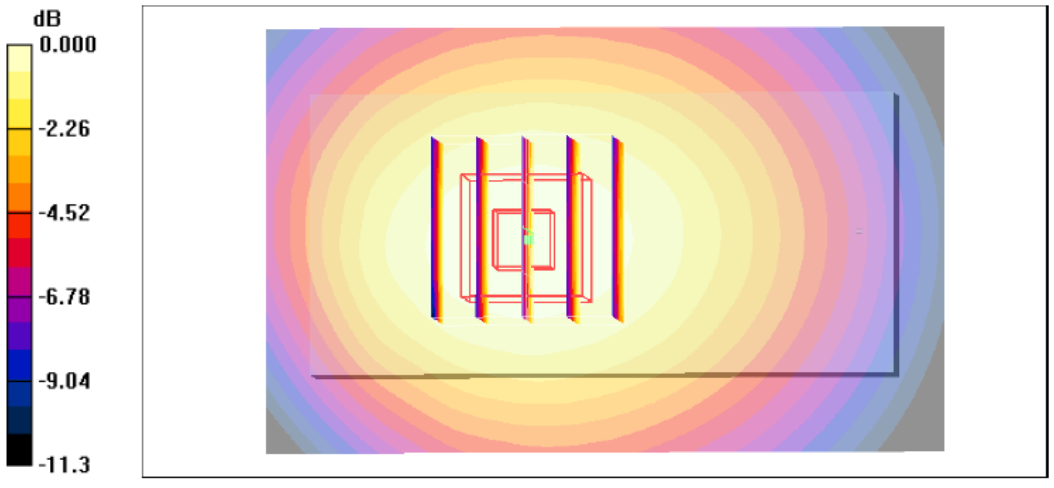
DUT: 981302

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: MSL_850_091021 Medium parameters used: f = 849 MHz; σ = 0.999 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature：22.5 ℃; Liquid Temperature：21.3 ℃

DASY4 Configuration:
- Probe: ET3DV6 - SN1787; ConvF(6.09, 6.09, 6.09); Calibrated: 2009/5/26
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: SAM-Right; Type: QD 000 P40 C; Serial: TP-1383
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Ch251/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.31 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.5 V/m; Power Drift = -0.022 dB
Peak SAR (extrapolated) = 1.62 W/kg
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.895 mW/g
Maximum value of SAR (measured) = 1.32 mW/g



0 dB = 1.32mW/g

<Device Holder holds on the Higher Side>

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2009/11/19

#16 GSM8500_GPRS12_Bottom_2.5cm_ Ch251_Slide OFF_Verify

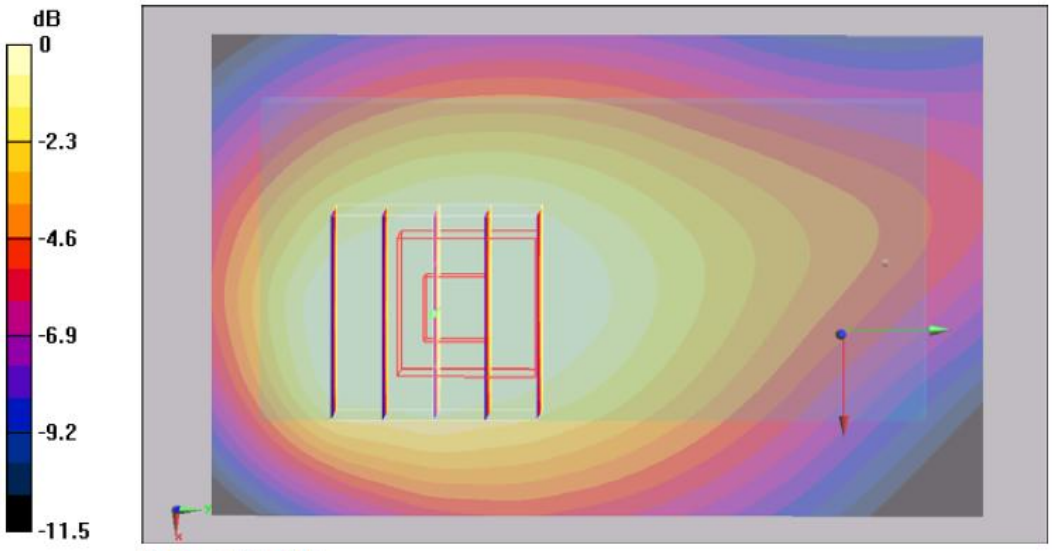
DUT: 981302

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:2
Medium: MSL_850_091119 Medium parameters used: f = 849 MHz; σ = 0.998 mho/m; ε_r = 54.3; ρ = 1000 kg/m^3
Ambient Temperature：22.6 ℃; Liquid Temperature：21.4 ℃

DASY5 Configuration:
- Probe: ET3DV6 - SN1788; ConvF(6.08, 6.08, 6.08); Calibrated: 2009/9/23
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn778; Calibrated: 2009/9/18
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1029
- Measurement SW: DASY5, V5.0 Build 125; SEMCAD X Version 13.4 Build 125

Ch251/Area Scan (51x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 1.52 mW/g

Ch251/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.5 V/m; Power Drift = 0.181 dB
Peak SAR (extrapolated) = 1.71 W/kg
SAR(1 g) = 1.24 mW/g; SAR(10 g) = 0.876 mW/g
Maximum value of SAR (measured) = 1.31 mW/g



0 dB = 1.31mW/g