MC75A6
SAR Test Plan

KDB 974053

Rev3b 11June2010

EUT information

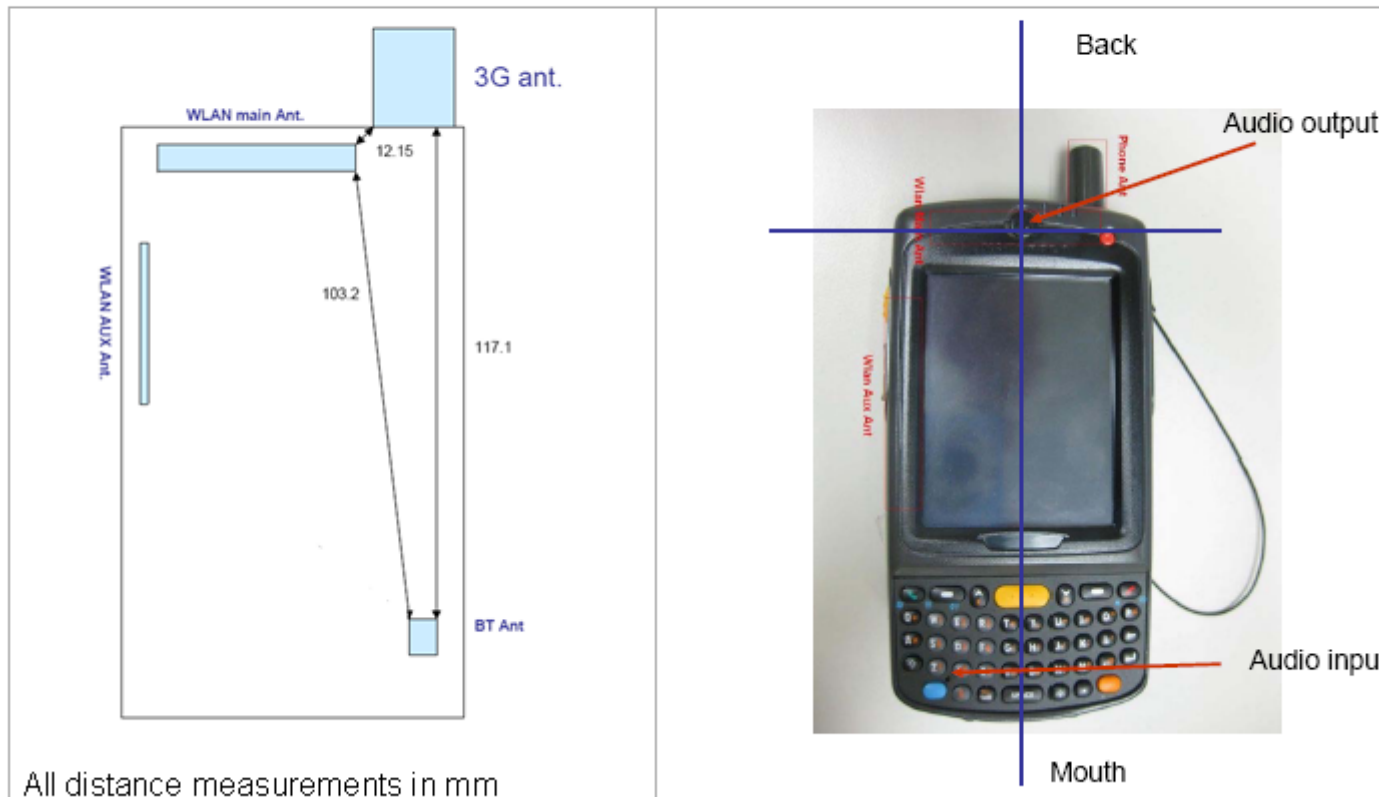| Product	EDA (Enterprise Digital Assistant)
FCC ID	**H9PMC75A6**
This product contains 3 RF transmitters	
Transmitter 1 (WWAN)	• 850 Band GSM/GPRS /EGPRS (class 10) / max. output power: 32.6 dBm • 1900 Band GSM/GPRS /EGPRS (class 10) / max. output power: 29.7dBm • 850 Band WCDMA/HSDPA Release 5 / max. output power: 23.1 dBm • 1900 Band WCDMA/HSDPA Release 5 / max. output power: 23.4 dBm
Transmitter 2 (WLAN)	• 802.11b / max. average output power: 14.2 dBm • 802.11g / max. average output power: 15.2 dBm • 802.11a / max. average output power: 10 dBm Note Antenna: WLAN1 for TX only, WLAN 2 used for RX diversity
Transmitter 3 (Bluetooth)	Bluetooth 2.0 EDR / max. output power: 3.6dBm

Operating condition

EDA supporting:
- GSM/ WCDMA (850/1900) Voice and data
- WiFi 802.11abg
- Bluetooth

MC75A6	Head			Body		
	Voice	Data	Simultanous Transmitters	Voice	Data	Simultanous Transmitters
GSM	Yes	No	Yes 802.11abg BT	Yes	Yes	Yes 802.11abg BT
GPRS	No	No	N/A	No	Yes Multi Slot Class 10	Yes BT
EGPRS	No	No	N/A	No	Yes Multi Slot Class 10	Yes BT
WCDMA (rel99)	Yes	No	Yes 802.11abg BT	Yes	Yes	Yes 802.11abg BT
HSDPA (rel5)	No	No	N/A	No	Yes	Yes BT
WCDMA + HSDPA	Yes	Yes	Yes 802.11abg BT	Yes	Yes	Yes 802.11abg BT
802.11abg	Yes	Yes	Yes GSM / WCDMA BT	Yes	Yes	Yes GSM / WCDMA / GPRS / EGPRS 802.11abg
DTM	N/A	N/A	N/A	N/A	N/A	N/A
BT	No	Yes	Yes GSM / WCDMA 802.11abg	Yes	Yes	Yes GSM / WCDMA / GPRS / EGPRS 802.11abg

Antenna Location

3G ant.

WLAN main Ant.

12.15

WLAN AUX Ant.

103.2

117.1

BT Ant

All distance measurements in mm

Back

Audio output

Phone Ant

Wlan Main Ant

Wlan Aux Ant

Audio input

Mouth

Distance between each pair of transmitting antennas

Antenna A	Antenna B	Distance mm
WWAN	WLAN	12.1
WWAN	BT	117.1
WLAN	BT	103.2

Terminal Options

Keyboard	Scanner	Batteries
Qwerty Numeric	1D Scanner 2 D Imager	2.5X Li-Lon battery 1.5X Li-Lon battery 82-71364-06 4800mAh 82-71364-05 3600mA

Accessories - II (Holster) for Body SAR

Hard Holster: SG-MC7011110-02R

Terminal can only fit into holster, display facing holster

Belt clip has metal spring

Accessories - II (Holster) for Body SAR

Soft Holster: SG-MC7521215-01R

Terminal – Fits in with keypad at the front

Belt clip has metal spring

Test Plan (Tracking Number KDB 974053)

1.

The following configurations were identified to cover the above options of keyboard and Scanner:

EUT1: 2D (BB) with QWERTY
EUT2: 1D with numeric
EUT3: 2D with numeric
EUT4: 1D with QWERTY

2D with Qwerty   1D with Numeric   2D with Numeric   1D with Qwerty

2.

Pre-test scans performed to assess impact on battery options. SAR readings were not impacted by battery change.
Agreed that formal tests would be performed with 1.5X battery pack option.

Test Plan (cont.)

3. Zoom SAR scans performed on the following 2 configs
    a. EUT1: 2D (BB) with QWERTY
    b. EUT2: 1D with numeric

Results review: 2D Imager and QWERTY keyboard identified as worst case – This config would be used for the formal SAR test and main report.

4. Test reduction:
    - Additional Zoom and Volume scans in <u>WORST CASE MODE</u> and <u>Highest SAR Channels</u>

Agreed on the following:

Configs

EUT2: 1D with numeric
EUT3: 2D with numeric
EUT4: 1D with QWERTY

Band / channels

WCDMA 1900 (L ,M, H) + 802.11a (Ch64)
WCDMA 1900 (L, M, H) + 802.11a (Ch100)

Mode

Left Head Tilt