HAC TEST REPORT

Test Item: Summary Result HAC Category = M3

REPORT NO.: SA990210L08-4

MODEL NO.: PC36100

RECEIVED: Feb. 23, 2010

TESTED: May 01, 2010

ISSUED: May 03, 2010

APPLICANT: HTC Corporation

ADDRESS: No. 23, Xinghua Rd., Taoyuan City, 330, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT : Smart Phone

MODEL NO. : PC36100

BRAND : HTC

APPLICANT : HTC Corporation

TESTED : May 01, 2010

TEST SAMPLE : ENGINEERING SAMPLE

STANDARDS : FCC Part 20.19
ANSI C63.19 2007

TEST ITEM: RF emissions

The above equipment (Model: PC36100) have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's characteristics under the conditions specified in this report.

PREPARED BY : _Pettie Chen_ **, DATE:** May 03, 2010
Pettie Chen / Specialist

TECHNICAL ACCEPTANCE : _Long Chen_ **, DATE:** May 03, 2010
Responsible for RF   Long Chen / Senior Engineer

APPROVED BY : _Gary Chang_ **, DATE:** May 03, 2010
Gary Chang / Assistant Manager

2. GENERAL INFORMATION
2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone	
MODEL NO.	PC36100	
FCC ID	NM8PC36100	
POWER SUPPLY	3.7Vdc (Battery) 5.0Vdc (Adapter) 5.0Vdc (host equipment)	
CLASSIFICATION	Portable device, production unit	
MODULATION TYPE	OQPSK, HPSK	
FREQUENCY RANGE	824MHz ~ 849MHz (CDMA850) 1850MHz ~ 1910MHz (CDMA1900)	
CHANNEL FREQUENCIES UNDER TEST AND ITS CONDUCTED OUTPUT POWER	CDMA850: 23.78dBm / 824.70MHz for channel 1013 23.96dBm / 836.50MHz for channel 384 23.11dBm / 848.30MHz for channel 777 CDMA1900: 23.92dBm / 1851.25MHz for channel 25 23.79dBm / 1880.00MHz for channel 600 24.48dBm / 1908.75MHz for channel 1175	
HAC RATE CATEGORY	M3	
ANTENNA TYPE	PIFA antenna	
MAX. ANTENNA GAIN	**850MHz:** -3dBi	**1900MHz:** 1.0dBi
DATA CABLE	Refer to NOTE	
I/O PORTS	Refer to user's manual	
ACCESSORY DEVICES	Refer to NOTE	

NOTE:
1. The communicated functions of EUT listed as below:

		850MHz	1900MHz	With WLAN 802.11b/g + BT 2.1 with EDR + GPS
3G	CDMA	√	√	
	1*EVDO	√	√	

2. The EUT has following accessories.

NO.	PRODUCT	BRAND	MANU-FACTURE	MODEL	DESCRIPTION
1	Power Adapter	hTC	Delta	TC U250	I/P: 100-240Vac, 50-60Hz, 200mA
2			Emerson	TC U250	O/P: 5Vdc, 1A
3	USB cable	MEC	-	DC M410	1.4m shielded cable without core (For data transmission & charging use)
4		Foxlink	-		
5	Battery	HT ENERGY	-	RHOD160	Rating: 3.7Vdc, 1500mAh
6		Formosa	-		

3. MEID no.: A100000D98
4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

2.2   DESCRIPTIONOF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
1	Universal Radio Communication Tester	R&S	CMU200	104958	Sep. 15, 2010

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

2.3   GENERAL DESCRIPTION OF APPLIED STANDARDS

According to the specifications of the manufacturer, this product must comply with the requirements of the following standards:

FCC Part 20.19

ANSI C63.19 – 2007

All test items have been performed and recorded as per the above standards.

3. GENERAL INFORMATION OF THE DASY4 SYSTEM

3.1. GENERAL INFORMATION OF TEST EQUIPMENT

DASY4 (software 4.7 Build 80) consists of high precision robot, probe alignment sensor, phantom, robot controller, controlled measurement server and near-field probe. The robot includes six axes that can move to the precision position of the DASY4 software defined. The DASY4 software can define the area that is detected by the probe. The robot is connected to controlled box. Controlled measurement server is connected to the controlled robot box. The DAE includes amplifier, signal multiplexing, AD converter, offset measurement and surface detection. It is connected to the Electro-optical coupler (ECO). The ECO performs the conversion form the optical into digital electric signal of the DAE and transfers data to the PC.

ER3DV6 E-FIELD PROBE

CONSTRUCTION	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges
CALIBRATION	In air from 100MHz to 3.0GHz (absolute accuracy ± 6.0%, k = 2)
FREQUENCY	100MHz to > 6GHz; Linearity: ± 0.2dB (100MHz to 3GHz)
DIRECTIVITY	± 0.2dB in air (rotation around probe axis) ± 0.4dB in air (rotation normal to probe axis)
DYNAMIC RANGE	2V/m to > 1000V/m (M3 or better device readings fall well below diode compression point) Linearity: ± 0.2dB
DIMENSIONS	Overall length: 330mm (Tip: 16mm)
	Tip diameter: 8mm (Body: 12mm)
	Distance from probe tip to dipole centers: 2.5mm

H3DV6 H-FIELD PROBE

CONSTRUCTION Three concentric loop sensors with 3.8mm loop diameters Resistively loaded detector diodes for linear response Built-in shielding against static charges

FREQUENCY 200MHz to 3GHz (absolute accuracy ± 6.0%, k = 2); Output linearized

DIRECTIVITY ± 0.25dB (spherical isotropy error)

DYNAMIC RANGE 10mA/m to 2A/m at 1GHz (M3 or better device readings fall well below diode compression point)

DIMENSIONS Overall length: 330mm (Tip: 40mm)

Tip diameter: 6mm (Body: 12mm)

Distance from probe tip to dipole centers: 3mm

E-FIELD INTERFERENCE < 10% at 3GHz (for plane wave)

NOTE: The Probe parameters have been calibrated by the SPEAG. Please reference "APPENDIX D" for the Calibration Certification Report.

HAC ARCH
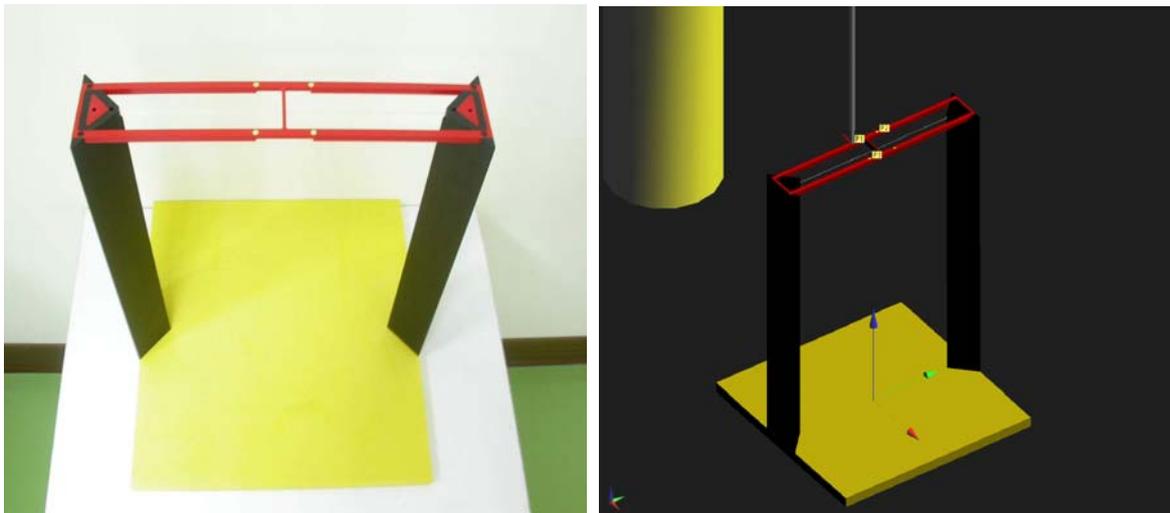
DIMENSIONS 370 x 370 x 370mm

SYSTEM VALIDATION KITS:

CD835V3
Frequency Band: 800 ~ 960MHz (free space)
Return Loss: > 15dB
Calibrated at: 835MHz
Power Capability: 50W continuous
Length & Height: 166 x 330mm

CD1880V3
Frequency Band: 1710 ~ 2000MHz (free space)
Return Loss: > 18dB
Calibrated at: 1880MHz
Power Capability: 50W continuous
Length & Height: 80.8 x 330mm

DEVICE HOLDER

CONSTRUCTION   Supports accurate and reliable positioning of any phone effect on near field <+/- 0.5dB

DATA ACQUISITION ELECTRONICS (DAE)

CONSTRUCTION

The data acquisition electronics (DAE3) consists of a highly sensitive electrometer grade preamplifier with auto-zeroing, a channel and gain-switching multiplex, a fast 16 bit AD converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock. The mechanical probe is mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection. The input impedance of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80dB.

3.2. TEST EQUIPMENT LIST

ITEM	NAME	BRAND	TYPE	SERIES NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
1	SAM Phantom	S & P	SD HAC P01 BA	1034	NA	NA
2	Signal Generator	Anritsu	68247B	984703	May 21, 2009	May 20, 2010
3	E-Field Probe	Speag	ER3DV6	2302	Jun. 23, 2009	Jun. 22, 2010
4	H-Field Probe	Speag	H3DV6	6187	Jun. 24, 2009	Jun. 23, 2010
5	DAE	S & P	DAE	861	Jan. 22, 2010	Jan. 21, 2011
6	Robot Positioner	Staubli Unimation	NA	NA	NA	NA
7	Validation Dipole	S & P	CD835V3	1149	Jan. 12, 2010	Jan. 11, 2011
8	Validation Dipole	S & P	CD1880V3	1032	Jul. 16, 2008	Jul. 15, 2010
9	Power Meter	Agilent	E4416A	GB41291763	Sep. 29, 2009	Sep. 28, 2010
10	Power Sensor	Agilent	E9327A	US40441181	Sep. 29, 2009	Sep. 28, 2010

NOTE: Before starting the measurement, all test equipment shall be warmed up for 30min.

3.3. MEASUREMENT UNCERTAINTY

HAC UNCERTAINTY BUDGET ACCORDING TO ANSI C63.19[1]							
ERROR DESCRIPTION	**UNCERTAINTY VALUE**	**PROBABILITY DISTRIBUTION**	**DIVISOR**	**(Ci) E**	**(Ci) H**	**STD. UNC. E (%)**	**STD. UNC. H (%)**
MEASUREMENT SYSTEM							
Probe calibration	5.1	Normal	1	1	1	5.1	5.1
Axial isotropy	0.5	Rectangular	$\sqrt{3}$	1	1	0.3	0.3
Sensor Displacement	16.5	Rectangular	$\sqrt{3}$	1	0.145	9.5	1.4
Boundary Effects	2.4	Rectangular	$\sqrt{3}$	1	1	1.4	1.4
Linearity	0.6	Rectangular	$\sqrt{3}$	1	1	0.3	0.3
Scaling to Peak Envelope Power	2.0	Rectangular	$\sqrt{3}$	1	1	1.2	1.2
System Detection Limit	1.0	Rectangular	$\sqrt{3}$	1	1	0.6	0.6
Readout Electronics	0.3	Rectangular	$\sqrt{3}$	1	1	0.2	0.2
Response Time	0.8	Rectangular	$\sqrt{3}$	1	1	0.5	0.5
Integration Time	2.6	Rectangular	$\sqrt{3}$	1	1	1.5	1.5
RF Ambient Condition	3.0	Rectangular	$\sqrt{3}$	1	1	1.7	1.7
RF Reflections	12.0	Rectangular	$\sqrt{3}$	1	1	6.9	6.9
Probe Positioner	1.2	Rectangular	$\sqrt{3}$	1	0.67	0.7	0.5
Probe Positioning	4.7	Rectangular	$\sqrt{3}$	1	0.67	2.7	1.8
Extrap. And Interpolation	1.0	Rectangular	$\sqrt{3}$	1	1	0.6	0.6
TEST SAMPLE RELATED							
Device Positioning Vertical	2.6	Normal	1	1	1	2.6	2.6
Device Positioning Lateral	2.6	Normal	1	1	1	2.6	2.6
Device Holder and Phantom	2.4	Rectangular	$\sqrt{3}$	1	1	1.4	1.4
Power Drift	5.0	Rectangular	$\sqrt{3}$	1	1	2.9	2.9
PHANTOM AND SETUP RELATED							
Phantom Thickness	2.4	Rectangular	$\sqrt{3}$	1	0.67	1.4	0.9
COMBINED STD. UNCERTAINTY						14.4	10.7
EXPANDED STD. UNCERTAINTY ON POWER						28.8	21.3
EXPANDED STD. UNCERTAINTY ON FIELD						14.4	10.7

NOTE: Worst-case uncertainty budget for HAC free field assessment according to ANSI C63.19 [1]. The budget is valid for the frequency range 800MHz ~ 3GHz and represents a worst-case analysis. For specific tests and configurations, the uncertainty could be considerably smaller.

3.4. GENERAL DESCRIPTION OF THE HAC EVALUATION

The DASY4 post-processing software (SEMCAD) automatically executes the following procedures to calculate the field units from the micro-volt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity $Norm_i$, a_{i0}, a_{i1}, a_{i2}
                 - Conversion factor $ConvF_i$
                 - Diode compression point dcp_i
Device parameters: - Frequency   F
                 - Crest factor   Cf

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \bullet \frac{cf}{dcp_i}$$

V_i = compensated signal of channel i	(i = x, y, z)
U_i = input signal of channel I	(i = x, y, z)
Cf = crest factor of exciting field	(DASY parameter)
dcp_i = diode compression point	(DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\textbf{\textit{E-field probes:}} \quad E_i = \sqrt{\frac{V_1}{Norm_i \cdot ConvF}}$$

$$\textbf{\textit{H-field probes:}} \quad H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

V_i = compensated signal of channel I   (i = x, y, z)

$Norm_i$ = sensor sensitivity of channel i μV/(V/m)2 for E-field Probes   (i = x, y, z)

ConvF = sensitivity enhancement in solution

a_{ij} = sensor sensitivity factors for H-field probes

F = carrier frequency [GHz]

E_i = electric field strength of channel i in V/m

H_i = magnetic field strength of channel i in A/m

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

E = field strength in V/m

E_{tot} = total field strength in V/m

NOTE: The signal response time is evaluated as the time required by the system to reach 90% of the expected final value after an on/off switch of the power source with an integration time of 500ms and a probe response time of < 5ms. In the current implementation, DASY4 waits longer than 100ms after having reached the grid point before starting a measurement, i.e., the response time uncertainty is negligible.

4. PERFORMANCE CATEGORIES

The ANSI Standard presents performance requirements for acceptable interoperability of hearing aids with wireless communications devices. When these parameters are met, a hearing aid operates acceptably in close proximity to a wireless communications device.

CATEGORY NEAR FIELD	AWF	TELEPHONE RF PARAMETERS < 960MHz			
		E-FIELD EMISSION CW (dBV/m)	E-FIELD EMISSION CW (V/m)	H-FIELD EMISSION CW (dBA/m)	H-FIELD EMISSION CW (A/m)
M1	0	56.0 to 61.0	631.0 to 1122.0	5.6 to 10.6	1.91 to 3.39
	-5	53.5 to 58.5	473.2 to 841.4	3.1 to 8.1	1.43 to 2.54
M2	0	51.0 to 56.0	354.8 to 631.0	0.6 to 5.6	1.07 to 1.91
	-5	48.5 to 53.5	266.1 to 473.2	-1.9 to 3.1	0.80 to 1.43
M3	0	46.0 to 51.0	199.5 to 354.8	-4.4 to 0.6	0.60 to 1.07
	-5	43.5 to 48.5	149.6 to 266.1	-6.9 to -1.9	0.45 to 0.80
M4	0	< 46.0	< 199.5	< -4.4	< 0.60
	-5	< 43.5	< 149.6	< -6.9	< 0.45

CATEGORY NEAR FIELD	AWF	TELEPHONE RF PARAMETERS > 960MHz			
		E-FIELD EMISSION CW (dBV/m)	E-FIELD EMISSION CW (V/m)	H-FIELD EMISSION CW (dBA/m)	H-FIELD EMISSION CW (A/m)
M1	0	46.0 to 51.0	199.5 to 354.8	-4.4 to 0.6	0.60 to 1.07
	-5	43.5 to 48.5	149.6 to 266.1	-6.9 to -1.9	0.45 to 0.80
M2	0	41.0 to 46.0	112.2 to 199.5	-9.4 to -4.4	0.34 to 0.60
	-5	48.5 to 53.5	84.1 to 149.6	-11.9 to -6.9	0.25 to 0.45
M3	0	36.0 to 41.0	63.1 to 112.2	-14.4 to -9.4	0.19 to 0.34
	-5	33.5 to 38.5	47.3 to 84.1	-16.9 to -11.9	0.14 to 0.25
M4	0	< 36.0	< 63.1	< -14.4	< 0.19
	-5	< 33.5	< 47.3	< -16.9	< 0.14

ARTICULATION WEIGHING FACTOR (AWF)

The following AWF factors shall be used for the standard transmission protocols:

| STANDARD	TECHNOLOGY	AWF (dB)
TIA/EIA/IS-2000	CDMA	0
TIA/EIA-136	TDMA (50Hz)	0
iDENTM	TDMA (22 and 11Hz)	0
J-STD-007	GSM (217)	-5
T1/T1P1/3GPP	UMTS (WCDMA)	0

5. SYSTEM CHECK

The measured values (E-field and H-field) were compared with the values provided by the probe manufacturer and must within the allowed tolerance of **25%**.

5.1. VALIDATION STRUCTURE

The input signal was an un-modulated continuous wave. The following points were taken into consideration in performing this check:

- Average Input Power P = 100mW RMS (20dBm RMS) after adjustment for return loss

- The test fixture must meet the 2 wavelength separation criterion

- The proper measurement of the 1cm probe to dipole separation, which is measured from top surface of the dipole to the calibration reference point of the sensor, defined by the probe manufacturer is shown in the following diagram:
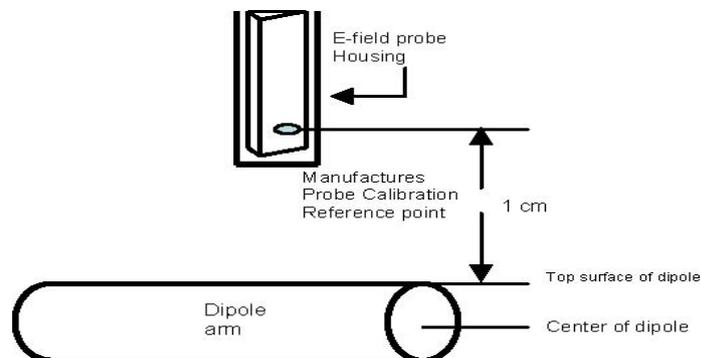
5.2. SYSTEM CHECK PROCEDURE

1. Before you start the system performance check, need only to tell the system with which components (probe type, validation dipole and HAC arch) are performing the system performance check; the system will take care of all parameters.

The system check configuration is shown in the following figure:
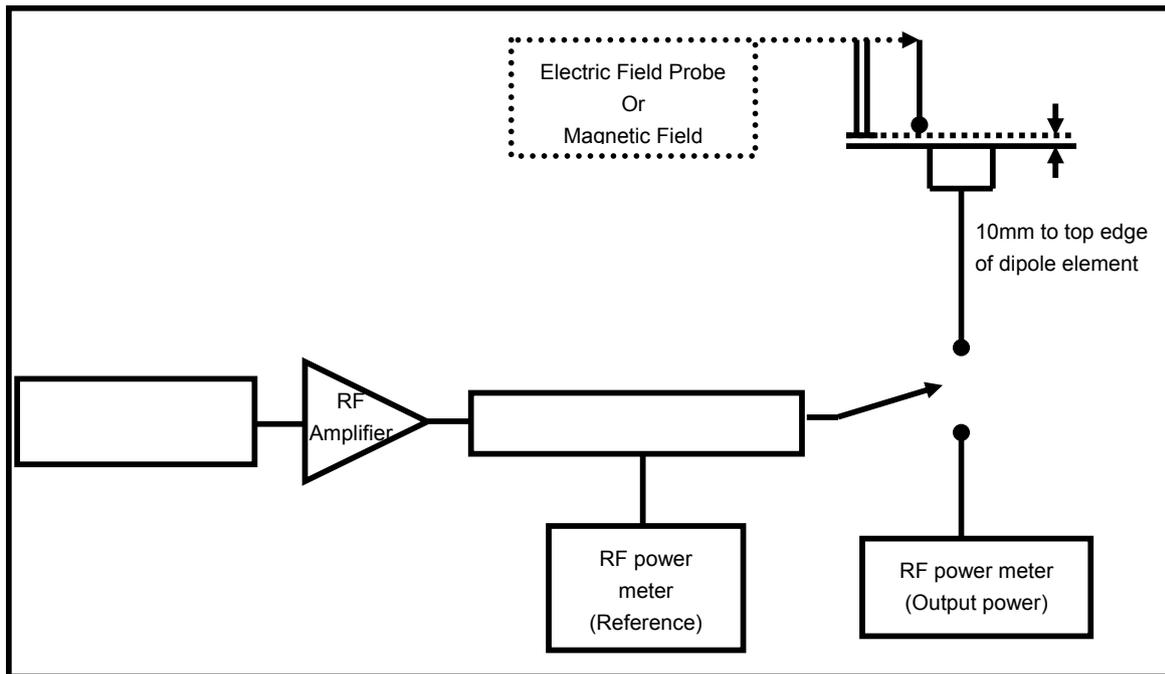
2. The dipole was energized with a 20dBm unmodulated continuous-wave signal.

3. The length of the dipole was scanned with both E-field and H-field probes and the maximum values for each were recorded.

5.3. VALIDATION RESULTS

SYSTEM CHECK						
TEST FREQUENCY (MHz)	**BEGIN TEST SG POWER (mW)**	**REQUIRED E-FILED (V/m)**	**MEASURED E-FILED (V/m)**	**DEVIATION (%)**	**SEPARATION DISTANCE (mm)**	**TESTED DATE**
835	100.0	170.7	138.2	-19.04	10	May 01, 2010
1880	100.0	141.8	111.1	-21.65	10	May 01, 2010
TEST FREQUENCY (MHz)	**BEGIN TEST SG POWER (mW)**	**REQUIRED H-FILED (A/m)**	**MEASURED H-FILED (A/m)**	**DEVIATION (%)**	**SEPARATION DISTANCE (mm)**	**TESTED DATE**
835	100.0	0.465	0.414	-10.97	10	May 01, 2010
1880	100.0	0.467	0.391	-16.27	10	May 01, 2010
TESTED BY	Sam Onn					

NOTE: Please see Appendix for the system validation test data.

6. MODULATION FACTOR

A calibration was made of the modulation response of the probe and its instrumentation chain. This calibration was performed with the field probe, attached to its instrumentation. The response of the probe system to a CW field at the frequency of interest is compared to its response to a modulated signal with equal peak amplitude to that of a CW signal. The field level of the test signals are ensured to be more than 10dB above the ambient level and the noise floor of the instrumentation being used. The ratio of the CW reading to that taken with a modulated reading was applied to the DUT measurements.

This was done using the following procedure:

1. Fixing the probe in a set location relative to a field generating device, such as a reference dipole antenna, as illustrated in the system check procedure.

2. Illuminate the probe using the wireless device connected to the reference dipole with a test signal at the intended measurement frequency, Ensure there is sufficient field coupling between the probe and the antenna so the resulting reading is greater than 10dB above the probe system noise floor but within the systems operating range.

3. Record the amplitude applied to the antenna during transmission and the field strength measured by the E-field probe located near the tip of the dipole antenna.

4. Replace the wireless device with an RF signal generator producing an unmodulated CW signal and set to the wireless device operating frequency.

5. Set the amplitude of the unmodulated signal to equal that recorded from the wireless device.

6. Record the reading of the probe measurement system of the unmodulated signal.

7. The RF signal generator producing an 80%AM signal and set to the wireless device operating frequency. Set the amplitude of the signal to equal that recorded from the wireless device.

8. Record the reading of the probe measurement system of the 80%AM signal.

9. The ratio, in linear units, of the probe reading in Step 3) or 8) to the reading in Step 6) is the E-field modulation factor.

10. Steps 1-9 were repeated at all frequency bands and for both E and H field probes.

NOTE: The ratio of the CW to modulated signal reading is the modulation factor. The modulation factors obtained were applied to readings taken of the actual wireless device, in order to obtain an accurate peak field reading using the formula:
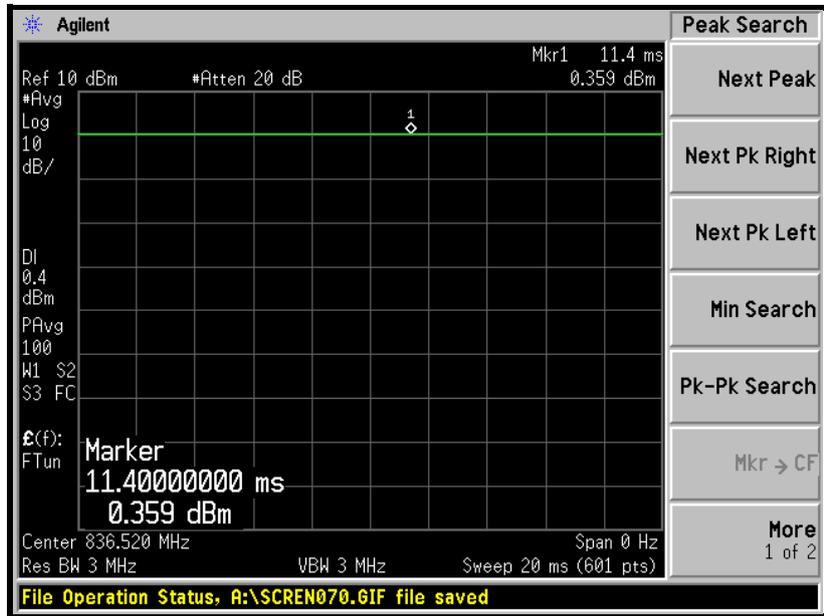
$$\textbf{Peak} = \textbf{20} \cdot \textbf{log}(\textbf{Raw} \cdot \textbf{P}robe\textbf{M}odulation\textbf{F}actor)$$

6.1 MODULATION FACTOR TEST RESULTS

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED E-FILED (V/m)	E-FILED MODULATION FACTOR	TESTED DATE
836.5	CW	Refer to the next three plots	145.2	NA	May 01, 2010
	80% AM		130.5	1.11	
	CDMA		154.1	0.94	

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED H-FILED (A/m)	H-FILED MODULATION FACTOR	TESTED DATE
836.5	CW	Refer to the next three plots	0.422	NA	May 01, 2010
	80% AM		0.396	1.07	
	CDMA		0.464	0.91	

TESTED BY	Sam Onn

CW SIGNAL:
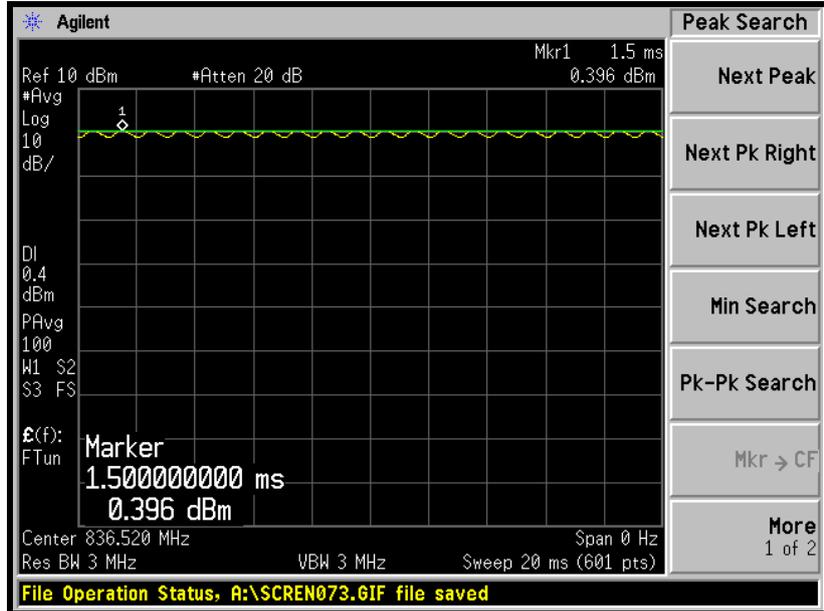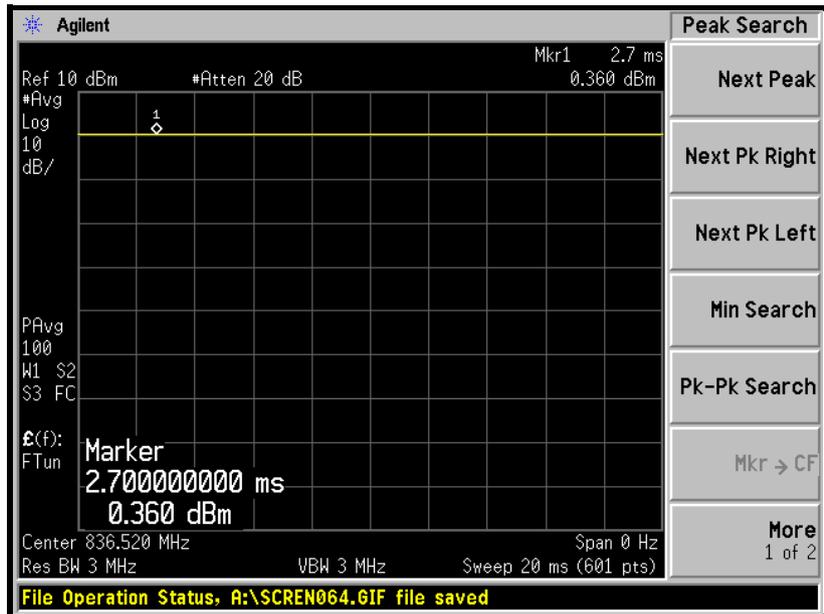
80% AM SIGNAL:

CDMA SIGNAL:

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED E-FILED (V/m)	E-FILED MODULATION FACTOR	TESTED DATE
1880.0	CW	Refer to the next three plots	101.3	NA	May 01, 2010
	80% AM		87.3	1.16	
	CDMA		102.2	0.99	

TEST FREQUENCY (MHz)	PROTOCOL	REFERENCE LEVEL	MEASURED H-FILED (A/m)	H-FILED MODULATION FACTOR	TESTED DATE
1880.0	CW	Refer to the next three plots	0.371	NA	May 01, 2010
	80% AM		0.334	1.11	
	CDMA		0.390	0.95	

TESTED BY	Sam Onn

CW SIGNAL:
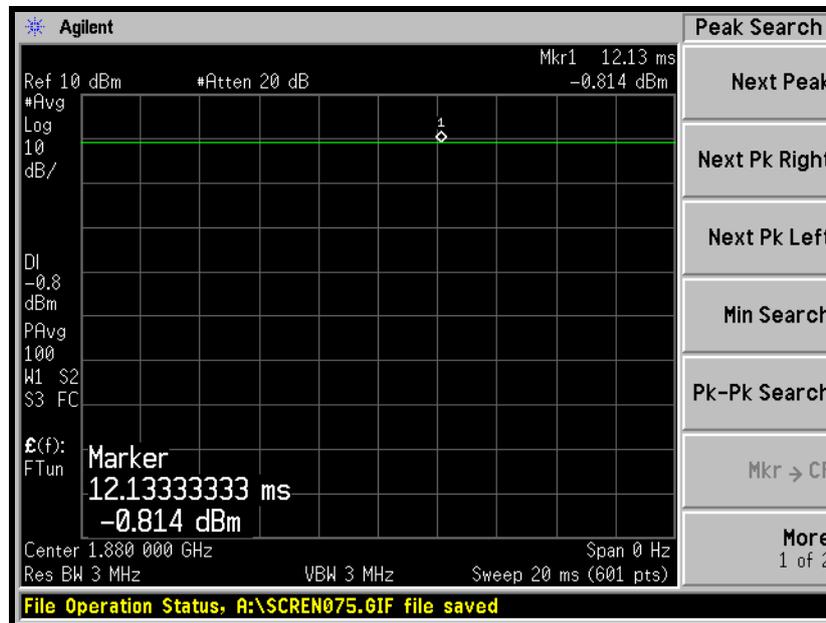
80% AM SIGNAL:
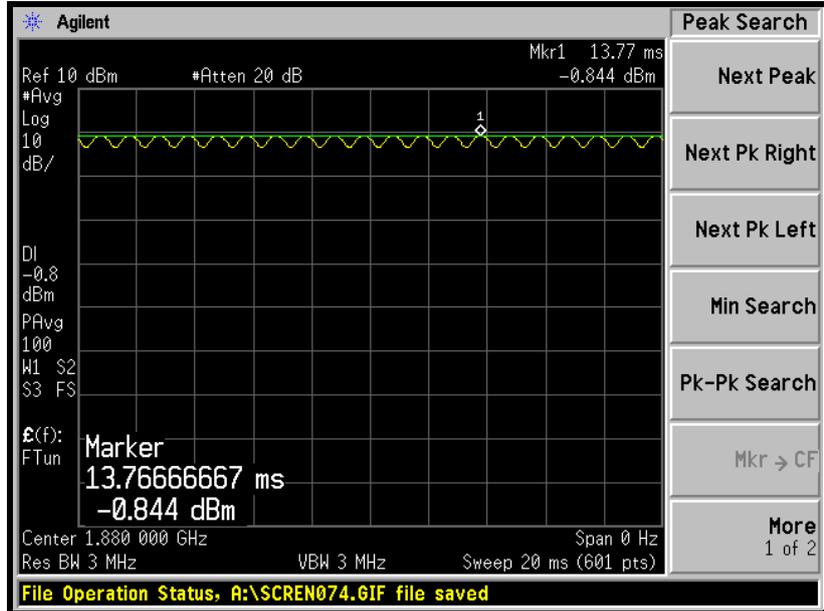
CDMA SIGNAL:
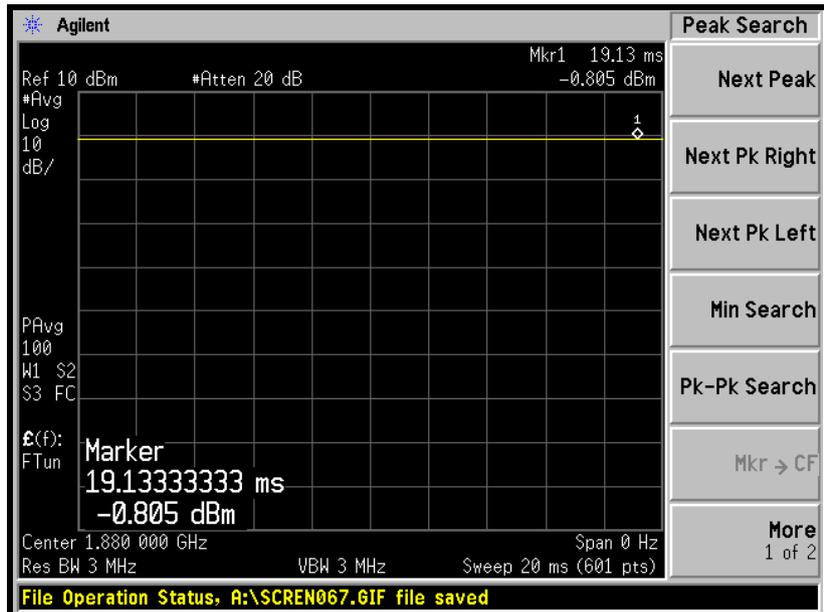
7. RF EMISSION TEST PROCEDURES

7.1. TEST INSTRUCTION

```
┌─────────────────────────────────────┐
│ ◆ Confirm proper operation of probes │
│   and instrumentation                │
│ ◆ Position WD                        │
│ ◆ Configure WD Tx Operation          │
│                                      │
│   Per Section 4.3.1.2.1 (1 ~ 3)      │
└─────────────────────────────────────┘
                  │
                  ▼
┌─────────────────────────────────────┐
│ ◆ Initialize field probe             │
│ ◆ Scan Area                          │
│                                      │        ┌──────────────────────────┐
│   Per Section 4.3.1.2.1 (4)          │        │ Rescan for E or H-Field, │
└─────────────────────────────────────┘        │ as needed                │
                  │                             │                          │
                  ▼                             │ Per Section 4.3.1.2.1 (9)│
┌─────────────────────────────────────┐        └──────────────────────────┘
│ ◆ Identify exclusion area, place     │
│   exclusion block                    │
│ ◆ Rescan open area                   │
│ ◆ Record maximum reading, in V/m     │
│   or A/m                             │
│   Per Section 4.3.1.2.1 (5 ~ 7)      │
└─────────────────────────────────────┘
                  │
                  ▼
          ◇ Both E & H Field ◇ ── NO ──►
            Scanned?
                  │
                 YES
                  ▼
┌─────────────────────────────────────┐
│      Identify & Record Category      │
│                                      │
│   Per Section 4.3.1.2.1 (8) & 7.2    │
└─────────────────────────────────────┘
```

7.2. TEST PROCEDURES

The EUT (Smart Phone) makes a phone call to the GSM base station. Establish the simulation communication configuration rather the actual communication. Then the EUT could continuous the transmission mode. Adjust the PCL of the base station could controlled the EUT to transmitted the maximum output power. The base station also could control the transmission channel.

The recommended procedure for assessing the RF emission value consists of the following steps:

1. Proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed.

2. WD is positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.

3. The center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The WD audio output was positioned tangent (as physically possible) to the measurement plane.

4. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the HAC arch.

5. The measurement system measured the field strength at the reference location.

6. Measurements at 2mm increments in the 5 x 5cm region were performed and recorded. A 360° rotation about the azimuth axis at the maximum interpolated position was measured. For the worst-case condition, the peak reading from this rotation was used in re-evaluating the HAC category.

7. Steps 1-6 were done for both the E and H-Field measurements.

•

7.3. DESCRIPTION OF TEST POSITION AND CONFIGURATIONS
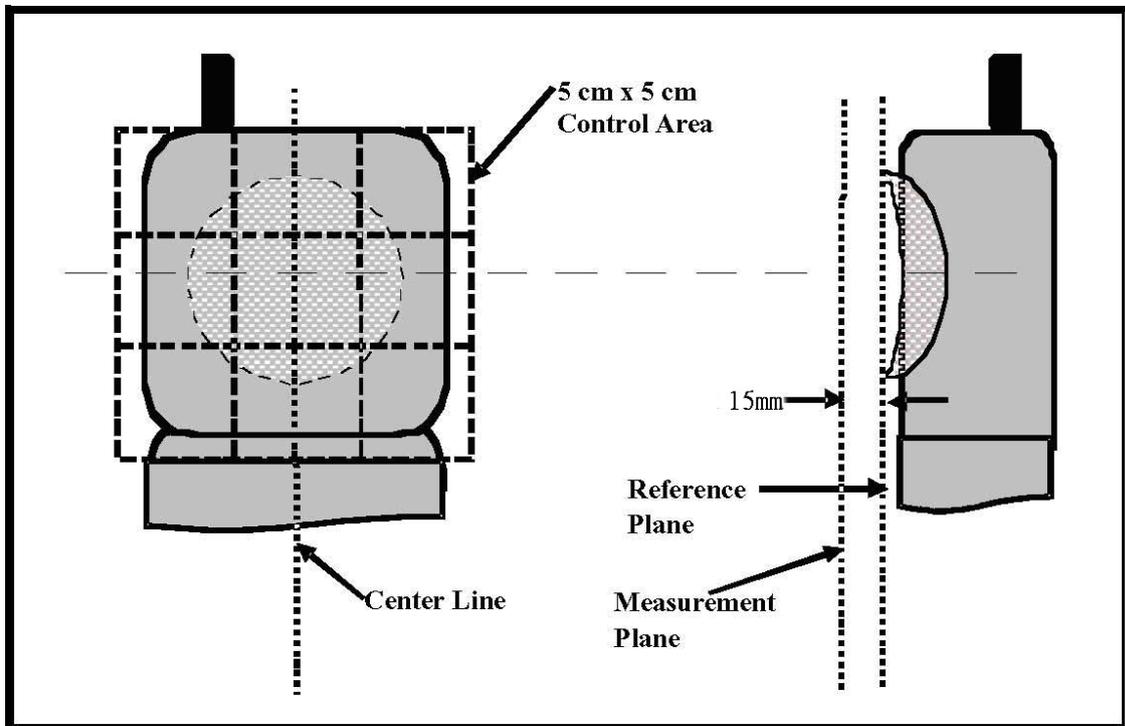
7.4. SUMMARY OF MEASURED HAC RESULTS

E-FIELD EMISSION

ENVIRONMENTAL CONDITION	Air Temperature：23.1°C, Humidity：57%RH								
TESTED BY	Sam Onn			**DATE**		May 01, 2010			
FREQ. (MHz)	**CHAN.**	**MODE**	**CONDUCTED POWER (dBm)**	**DRIFT (dB)**	**MEASURED PMF**	**EXCLUDED CELLS**	**PEAK FIELD (V/m)**	**RATING**	**REMARK**
824.70 (Low)	1013	CDMA 850	23.78	-0.003	0.94	7, 8, 9	63.7	M4	Note 2
836.52 (Mid.)	384		23.96	-0.110		7, 8, 9	72.3	M4	Note 2
848.31 (High)	777		23.11	-0.024		7, 8, 9	63.2	M4	Note 2
836.52 (Mid.)	384		23.96	0.068		7, 8, 9	71.7	M4	Note 3

NOTE:

1. WiFi/WiMAX/BT are disabled during HAC test.

2. The LCD back-light "OFF" & battery 1 (Manufactory: HT ENERGY) are the worst case for measurement.

3. The LCD back-light "OFF" & battery 2 (Manufactory: Formosa) are the worst case for measurement.

4. Please see the Appendix A for the measured data and test plots.

5. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

ENVIRONMENTAL CONDITION	Air Temperature：23.1°C, Humidity：57%RH								
TESTED BY	Sam Onn			DATE		May 01, 2010			
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (V/m)	RATING	REMARK
1851.25 (Low)	25	CDMA 1900	23.92	-0.075	0.99	6, 8, 9	68.1	M3	Note 2
1880.00 (Mid.)	600		23.79	0.112		6, 8, 9	82.7	M3	Note 2
1908.75 (High)	1175		23.48	-0.072		6, 8, 9	77.7	M3	Note 2
1880.00 (Mid.)	600		23.79	-0.047		6, 8, 9	82.4	M3	Note 3

NOTE:

1. WiFi/WiMAX/BT are disabled during HAC test.

2. The LCD back-light "OFF" & battery 1 (Manufactory: HT ENERGY) are the worst case for measurement.

3. The LCD back-light "OFF" & battery 2 (Manufactory: Formosa) are the worst case for measurement.

4. Please see the Appendix A for the measured data and test plots.

5. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

H-FIELD EMISSION

ENVIRONMENTAL CONDITION	Air Temperature：23.1°C, Humidity：57%RH							
TESTED BY	Sam Onn			**DATE**		May 01, 2010		

FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING	REMARK
824.70 (Low)	1013		23.78	0.057		4, 7, 8	0.150	M4	Note 2
836.52 (Mid.)	384	CDMA 850	23.96	0.011	0.91	4, 7, 8	0.157	M4	Note 2
848.31 (High)	777		23.11	-0.042		4, 7, 8	0.146	M4	Note 2
836.52 (Mid.)	384		23.96	-0.107		4, 7, 8	0.156	M4	Note 3

NOTE:

1. WiFi/WiMAX/BT are disabled during HAC test.

2. The LCD back-light "OFF" & battery 1 (Manufactory: HT ENERGY) are the worst case for measurement.

3. The LCD back-light "OFF" & battery 2 (Manufactory: Formosa) are the worst case for measurement.

4. Please see the Appendix A for the measured data and test plots.

5. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

ENVIRONMENTAL CONDITION	Air Temperature：23.1°C, Humidity：57%RH								
TESTED BY	Sam Onn			DATE		May 01, 2010			
FREQ. (MHz)	CHAN.	MODE	CONDUCTED POWER (dBm)	DRIFT (dB)	MEASURED PMF	EXCLUDED CELLS	PEAK FIELD (A/m)	RATING	REMARK
1851.25 (Low)	25	CDMA 1900	23.92	-0.034	0.95	4, 7, 8	0.224	M3	Note 2
1880.00 (Mid.)	600		23.79	-0.010		4, 7, 8	0.253	M3	Note 2
1908.75 (High)	1175		23.48	-0.119		4, 7, 8	0.242	M3	Note 2
1880.00 (Mid.)	600		23.79	-0.046		4, 7, 8	0.252	M3	Note 3

NOTE:

1. WiFi/WiMAX/BT are disabled during HAC test.

2. The LCD back-light "OFF" & battery 1 (Manufactory: HT ENERGY) are the worst case for measurement.

3. The LCD back-light "OFF" & battery 2 (Manufactory: Formosa) are the worst case for measurement.

4. Please see the Appendix A for the measured data and test plots.

5. The variation of the EUT conducted power measured before and after HAC testing should not over 5%.

8. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

---END---

Test Laboratory: Bureau Veritas ADT

E_CDMA850-Ch1013

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 824.7 MHz

Communication System: CDMA850 ; Frequency: 824.7 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch1013/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
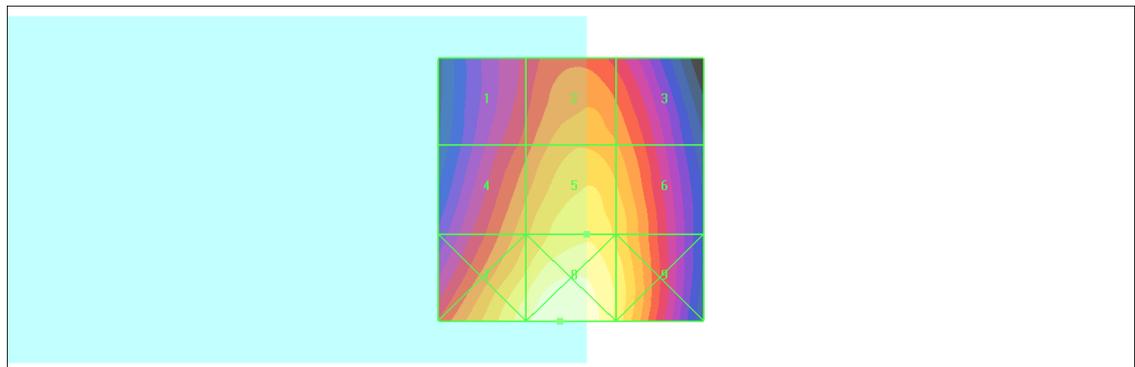Maximum value of peak Total field = 63.7 V/m
Probe Modulation Factor = 0.940
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 80.6 V/m; Power Drift = -0.003 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.4 M4	**58.3 M4**	**57.1 M4**
Grid 4	Grid 5	Grid 6
57.6 M4	**63.7 M4**	**62.1 M4**
Grid 7	Grid 8	Grid 9
64.7 M4	**69.1 M4**	**65.9 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA850-Ch384

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch384 /Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = `72.3` V/m
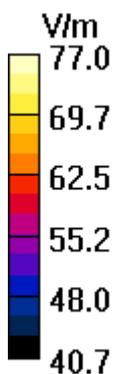Probe Modulation Factor = 0.940
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 93.4 V/m; Power Drift = -0.110 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
62.2 M4	**67.3 M4**	**65.5 M4**
Grid 4	Grid 5	Grid 6
67.0 M4	**72.3 M4**	**69.9 M4**
Grid 7	Grid 8	Grid 9
74.0 M4	**78.2 M4**	**72.2 M4**
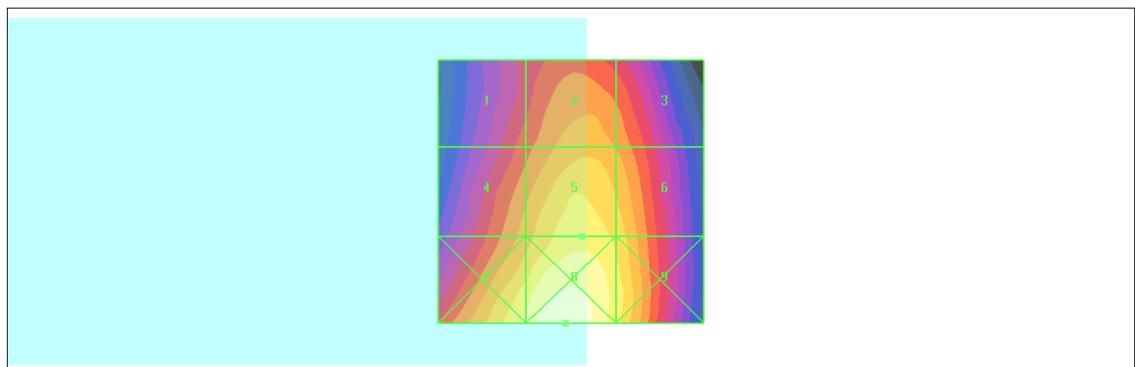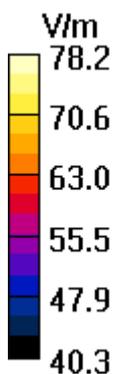
Test Laboratory: Bureau Veritas ADT

E_CDMA850-Ch777

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 848.3 MHz

Communication System: CDMA850 ; Frequency: 848.3 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch777/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
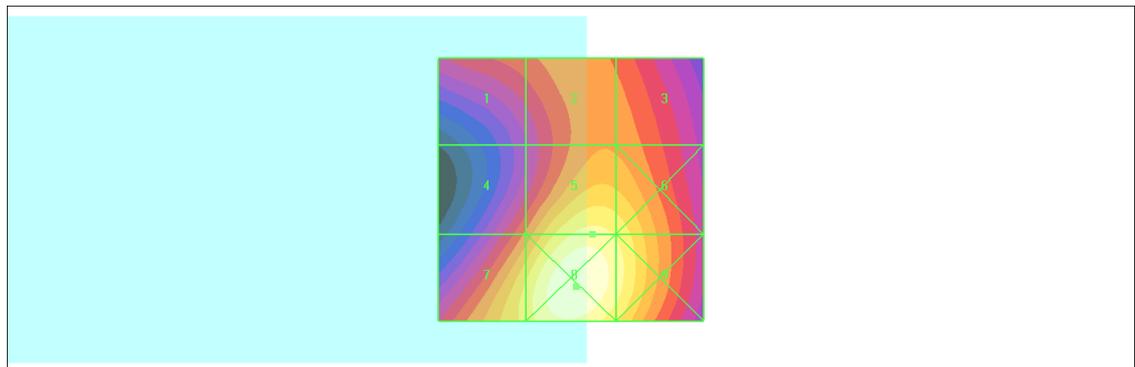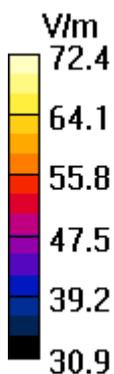Maximum value of peak Total field = 63.2 V/m
Probe Modulation Factor = 0.940
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 82.5 V/m; Power Drift = -0.024 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
55.6 M4	**59.0 M4**	**57.0 M4**
Grid 4	Grid 5	Grid 6
60.2 M4	**63.2 M4**	**60.3 M4**
Grid 7	Grid 8	Grid 9
67.1 M4	**68.8 M4**	**62.4 M4**

Test Laboratory: Bureau Veritas ADT

E_CDMA850-Ch384 bat2

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
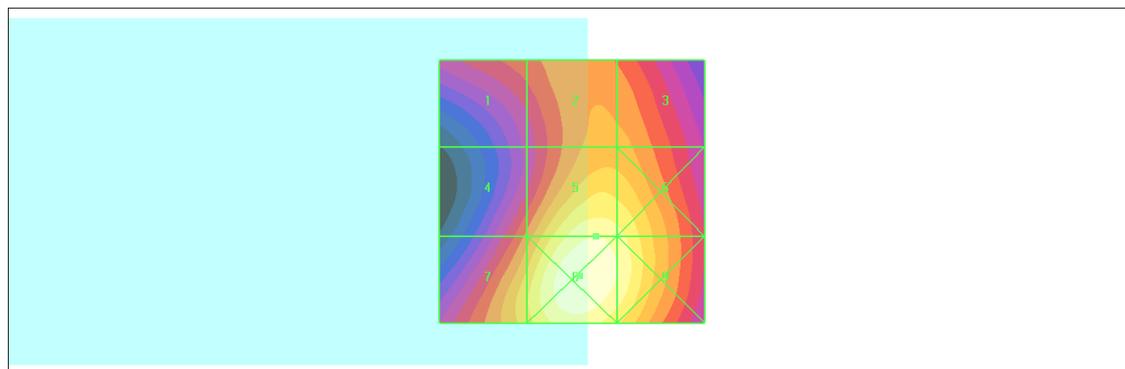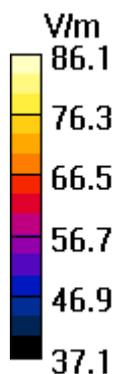Maximum value of peak Total field = 71.7 V/m
Probe Modulation Factor = 0.940
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 92.6 V/m; Power Drift = 0.068 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
61.4 M4	**67.2 M4**	**65.2 M4**
Grid 4	Grid 5	Grid 6
66.9 M4	**71.7 M4**	**69.3 M4**
Grid 7	Grid 8	Grid 9
73.9 M4	**77.0 M4**	**72.0 M4**

A - 4

Test Laboratory: Bureau Veritas ADT

E_CDMA1900-Ch25

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1851.25 MHz

Communication System: CDMA1900 ; Frequency: 1851.25 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
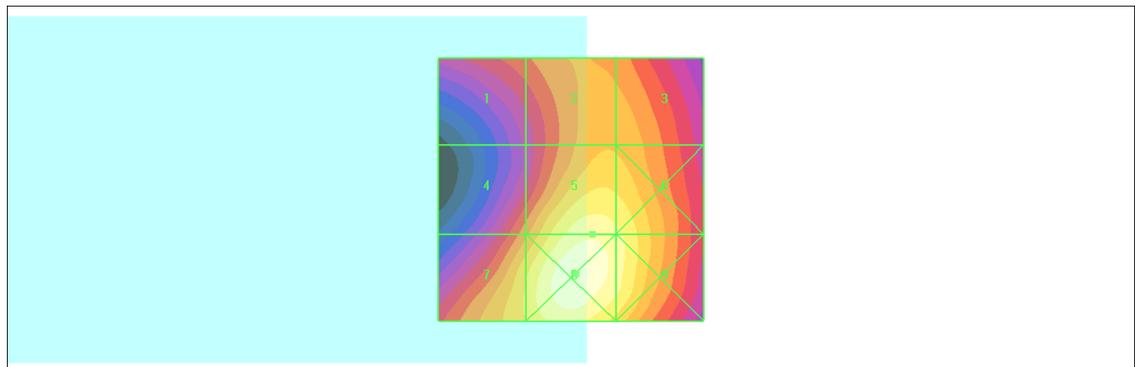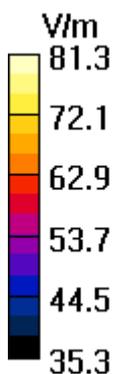Maximum value of peak Total field = 68.1 V/m
Probe Modulation Factor = 0.990
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 75.7 V/m; Power Drift = -0.075 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1 **55.1 M4**	Grid 2 **58.4 M4**	Grid 3 **58.2 M4**
Grid 4 **56.7 M4**	Grid 5 **68.1 M3**	Grid 6 **66.5 M3**
Grid 7 **65.6 M3**	Grid 8 **72.4 M3**	Grid 9 **68.4 M3**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900-Ch600

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
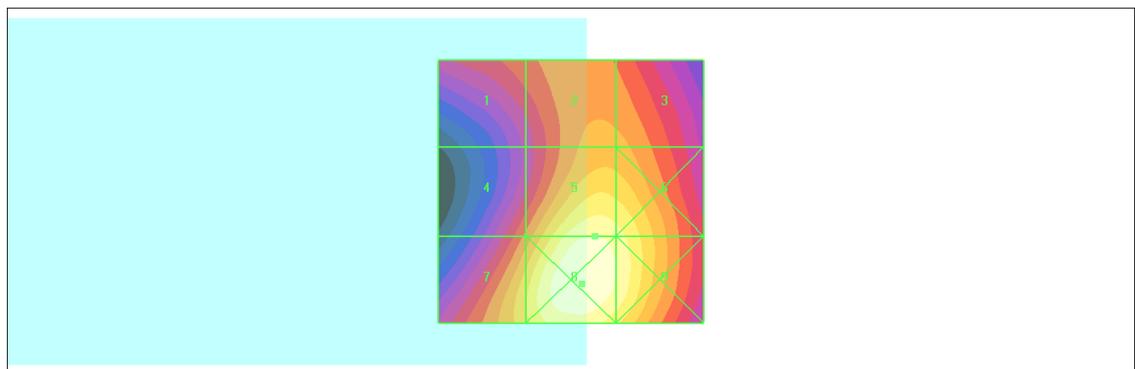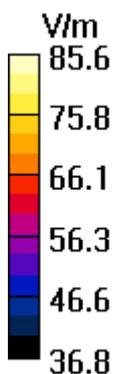Maximum value of peak Total field = 82.7 V/m
Probe Modulation Factor = 0.990
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 91.1 V/m; Power Drift = 0.112 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
65.5 M3	**71.4 M3**	**71.3 M3**
Grid 4	Grid 5	Grid 6
67.8 M3	**82.7 M3**	**80.9 M3**
Grid 7	Grid 8	Grid 9
76.0 M3	**86.1 M3**	**82.9 M3**

A - 6

Test Laboratory: Bureau Veritas ADT

E_CDMA1900-Ch1175

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1908.75 MHz

Communication System: CDMA1900 ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
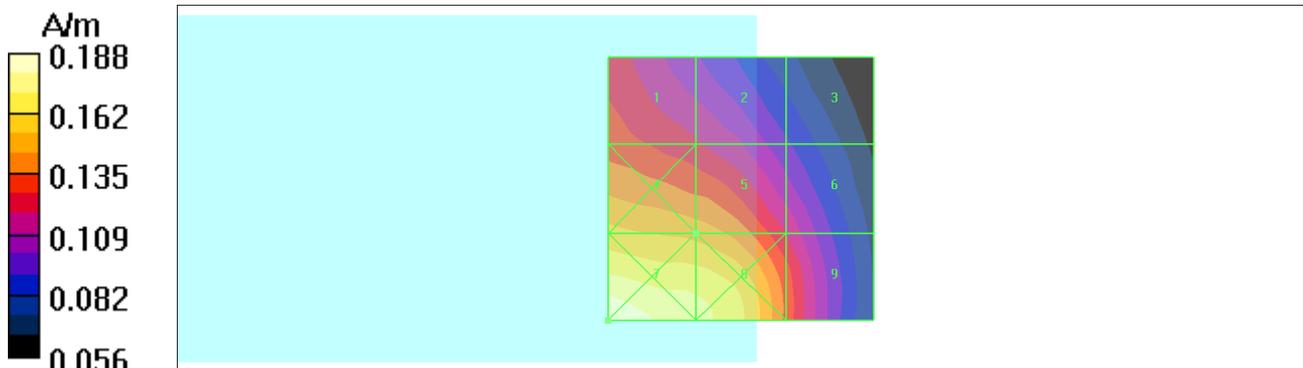Maximum value of peak Total field = 77.7 V/m
Probe Modulation Factor = 0.990
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 89.6 V/m; Power Drift = -0.072 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
62.4 M4	**68.8 M3**	**68.7 M3**
Grid 4	Grid 5	Grid 6
65.3 M3	**77.7 M3**	**76.1 M3**
Grid 7	Grid 8	Grid 9
72.7 M3	**81.3 M3**	**76.9 M3**

Test Laboratory: Bureau Veritas ADT

E_CDMA1900-Ch600 Bat2

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3 ;
Phantom section: E Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Ch600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
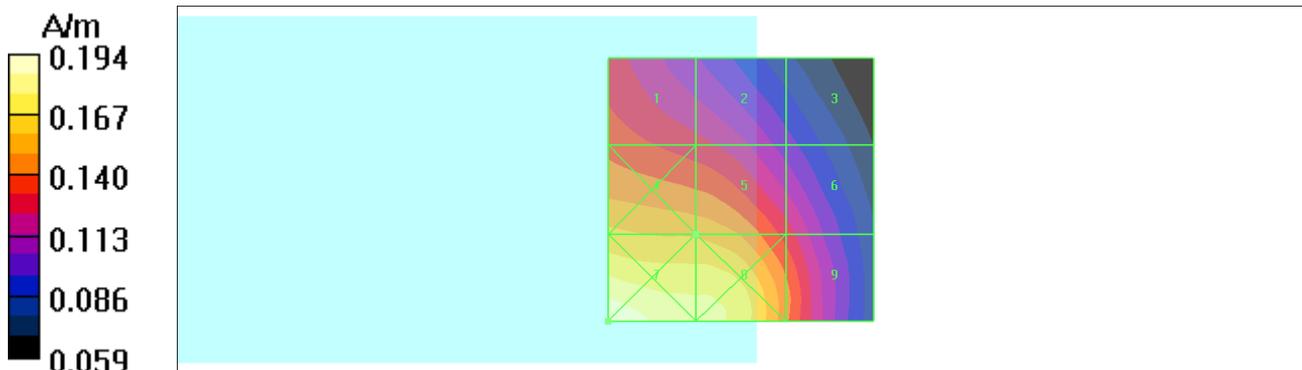Maximum value of peak Total field = 82.4 V/m
Probe Modulation Factor = 0.990
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 91.7 V/m; Power Drift = -0.047 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
65.2 M3	**71.2 M3**	**70.7 M3**
Grid 4	Grid 5	Grid 6
67.2 M3	**82.4 M3**	**80.6 M3**
Grid 7	Grid 8	Grid 9
75.8 M3	**85.6 M3**	**82.3 M3**

Test Laboratory: Bureau Veritas ADT

H_CDMA850-Ch1013

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 824.7 MHz

Communication System: CDMA850 ; Frequency: 824.7 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch1013/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
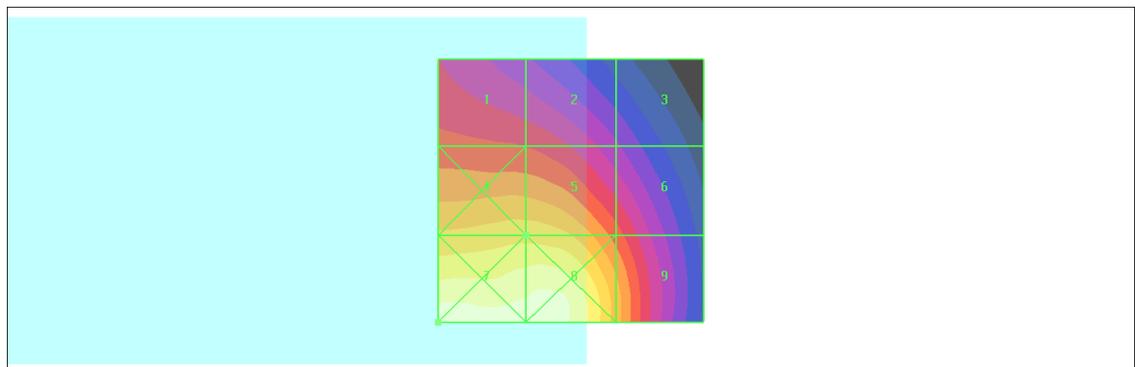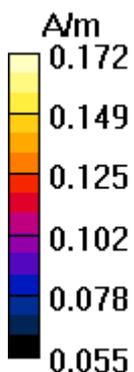Maximum value of peak Total field = 0.150 A/m
Probe Modulation Factor = 0.910
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.157 A/m; Power Drift = 0.057 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.132 M4	**0.119 M4**	**0.093 M4**
Grid 4	Grid 5	Grid 6
0.156 M4	**0.150 M4**	**0.118 M4**
Grid 7	Grid 8	Grid 9
0.188 M4	**0.173 M4**	**0.133 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850-Ch384

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
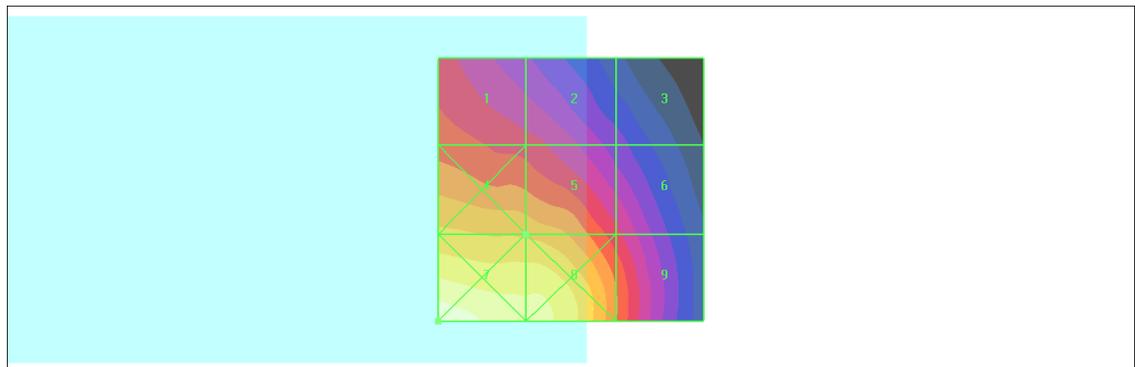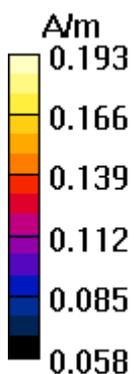Maximum value of peak Total field = 0.157 A/m
Probe Modulation Factor = 0.910
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.169 A/m; Power Drift = 0.011 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.137 M4	**0.126 M4**	**0.100 M4**
Grid 4	Grid 5	Grid 6
0.161 M4	**0.157 M4**	**0.128 M4**
Grid 7	Grid 8	Grid 9
0.194 M4	**0.180 M4**	**0.144 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA850-Ch777

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 848.3 MHz

Communication System: CDMA850 ; Frequency: 848.3 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch777/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
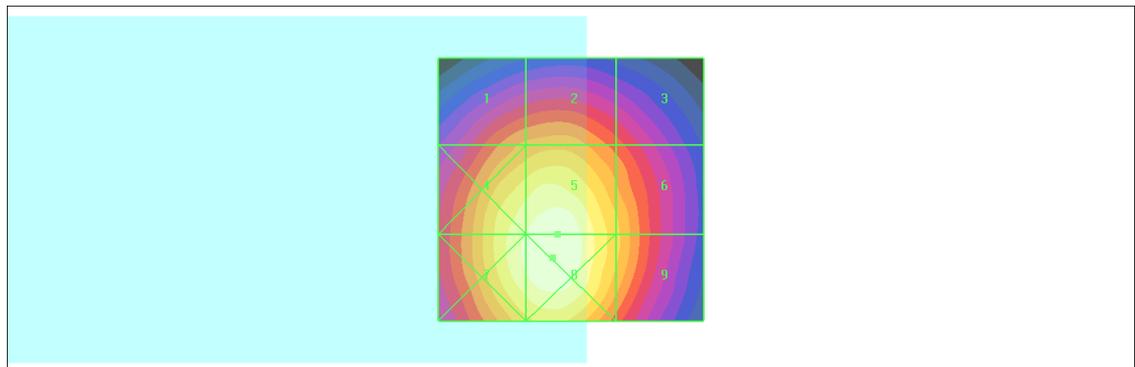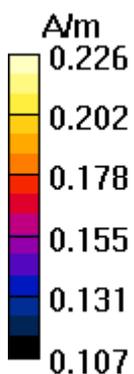Maximum value of peak Total field = 0.146 A/m
Probe Modulation Factor = 0.910
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.162 A/m; Power Drift = -0.042 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.121 M4	**0.117 M4**	**0.096 M4**
Grid 4	Grid 5	Grid 6
0.146 M4	**0.146 M4**	**0.122 M4**
Grid 7	Grid 8	Grid 9
0.172 M4	**0.168 M4**	**0.137 M4**

A - 3

Test Laboratory: Bureau Veritas ADT

H_CDMA850-Ch384 Bat2

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
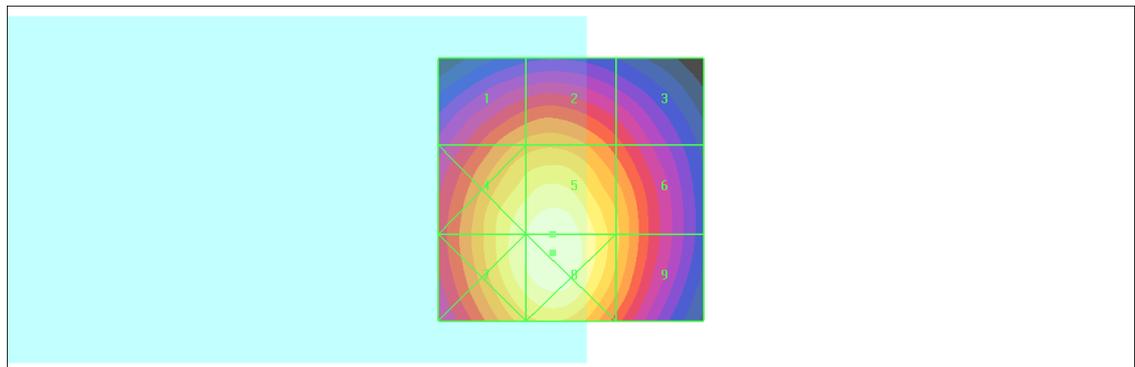Maximum value of peak Total field = 0.156 A/m
Probe Modulation Factor = 0.910
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.168 A/m; Power Drift = -0.107 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.136 M4	**0.125 M4**	**0.099 M4**
Grid 4	Grid 5	Grid 6
0.160 M4	**0.156 M4**	**0.125 M4**
Grid 7	Grid 8	Grid 9
0.193 M4	**0.179 M4**	**0.141 M4**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch25

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1851.25 MHz

Communication System: CDMA1900 ; Frequency: 1851.25 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
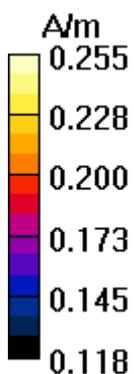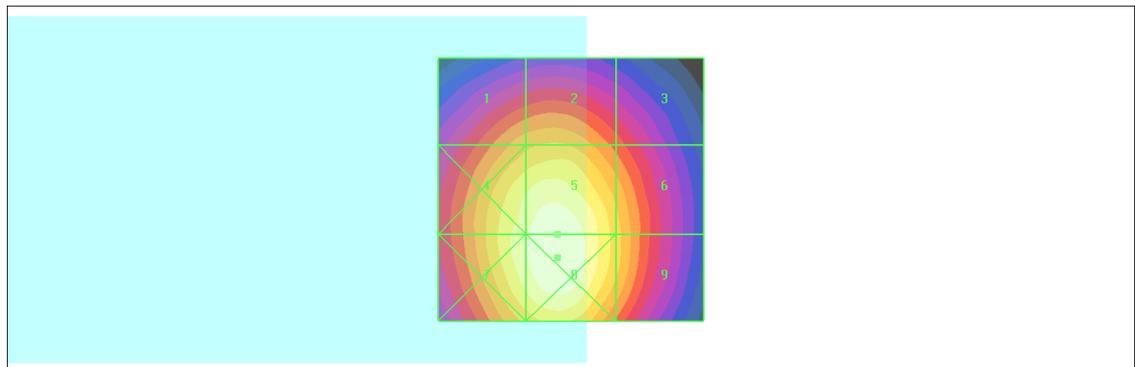Maximum value of peak Total field = 0.224 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.269 A/m; Power Drift = -0.034 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.189 M4	**0.192 M3**	**0.175 M4**
Grid 4	Grid 5	Grid 6
0.219 M3	**0.224 M3**	**0.197 M3**
Grid 7	Grid 8	Grid 9
0.220 M3	**0.226 M3**	**0.197 M3**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch600

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
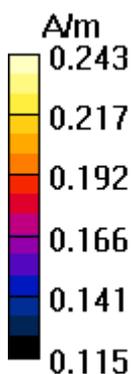Maximum value of peak Total field = 0.253 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.304 A/m; Power Drift = -0.010 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.214 M3	**0.217 M3**	**0.196 M3**
Grid 4	Grid 5	Grid 6
0.246 M3	**0.253 M3**	**0.221 M3**
Grid 7	Grid 8	Grid 9
0.247 M3	**0.255 M3**	**0.221 M3**

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch1175

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1908.75 MHz

Communication System: CDMA1900 ; Frequency: 1908.75 MHz ; Duty Cycle: 1:1Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
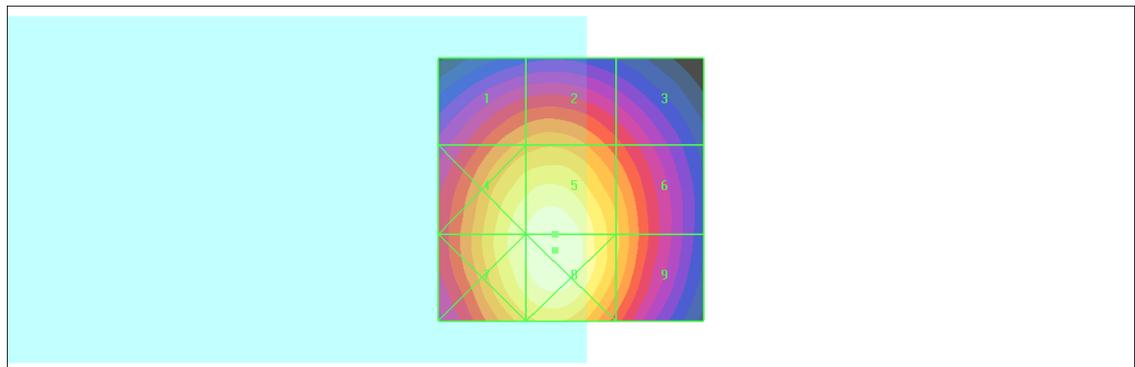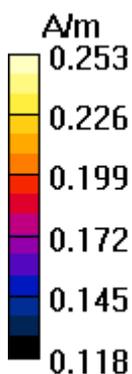Maximum value of peak Total field = 0.242 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.296 A/m; Power Drift = -0.119 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.207 M3	**0.210 M3**	**0.189 M4**
Grid 4	Grid 5	Grid 6
0.234 M3	**0.242 M3**	**0.213 M3**
Grid 7	Grid 8	Grid 9
0.235 M3	**0.243 M3**	**0.213 M3**

A - 7

Test Laboratory: Bureau Veritas ADT

H_CDMA1900-Ch600 Bat2

DUT: Pocket Pc Phone ; Type: PC36100 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz ; Duty Cycle: 1:1 Modulation type: OQPSK
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3 ;
Phantom section: H Device Section ;
Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ;   ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device Ch600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
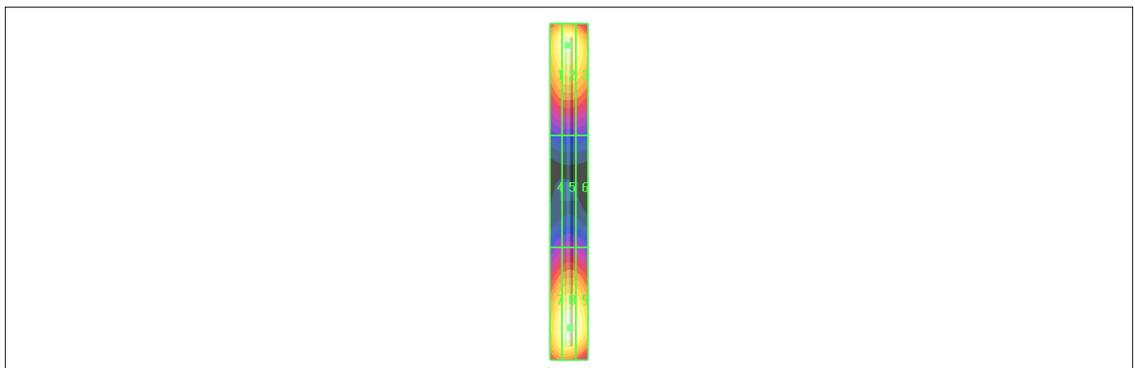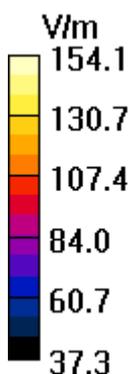Maximum value of peak Total field = 0.252 A/m
Probe Modulation Factor = 0.950
Device Reference Point: 0.000, 0.000, 353.7 mm
Reference Value = 0.302 A/m; Power Drift = -0.046 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.212 M3	**0.216 M3**	**0.194 M3**
Grid 4	Grid 5	Grid 6
0.245 M3	**0.252 M3**	**0.220 M3**
Grid 7	Grid 8	Grid 9
0.246 M3	**0.253 M3**	**0.220 M3**

A - 8

Test Laboratory: Bureau Veritas ADT

E_Dipole_WD_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

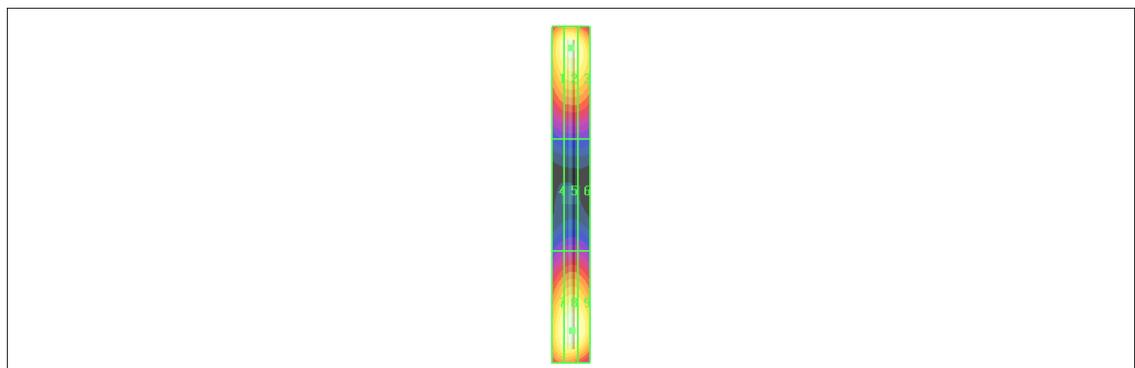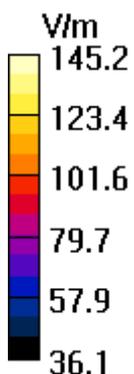Maximum value of peak Total field = 154.1 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 115.4 V/m; Power Drift = -0.148 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
146.7 M4	**149.0 M4**	**143.7 M4**
Grid 4	Grid 5	Grid 6
81.1 M4	**84.0 M4**	**82.1 M4**
Grid 7	Grid 8	Grid 9
148.5 M4	**154.1 M4**	**150.4 M4**

V/m	
	154.1
	130.7
	107.4
	84.0
	60.7
	37.3

Test Laboratory: Bureau Veritas ADT

E_Dipole_CW_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: CW ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
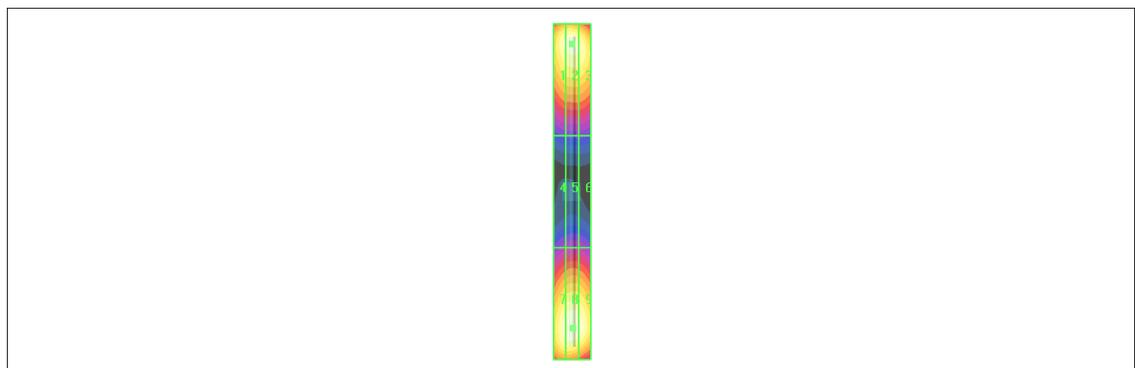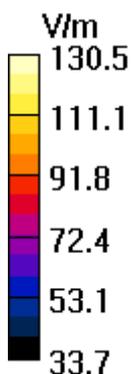Maximum value of peak Total field = 145.2 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 109.2 V/m; Power Drift = -0.022 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
139.3 M4	**142.1 M4**	**138.7 M4**
Grid 4	Grid 5	Grid 6
76.9 M4	**79.8 M4**	**78.7 M4**
Grid 7	Grid 8	Grid 9
140.7 M4	**145.2 M4**	**142.8 M4**

V/m
145.2
123.4
101.6
79.7
57.9
36.1

Date/Time: 2010/5/1 09:26:22

Test Laboratory: Bureau Veritas ADT

E_Dipole_AM_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: AM ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: σ = 0 mho/m, $ε_r$ = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
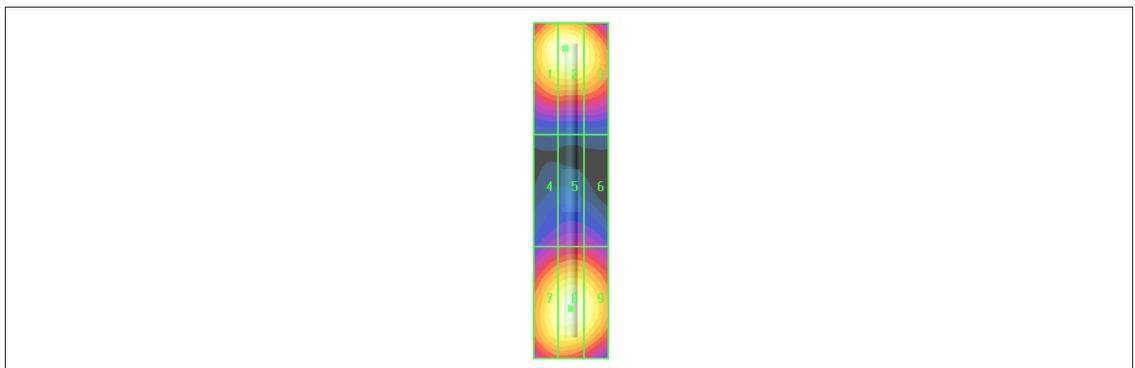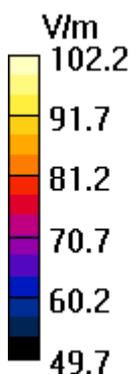Maximum value of peak Total field = 130.5 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 98.9 V/m; Power Drift = -0.009 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
126.3 M4	**127.9 M4**	**125.5 M4**
Grid 4	Grid 5	Grid 6
71.0 M4	**73.2 M4**	**72.3 M4**
Grid 7	Grid 8	Grid 9
127.4 M4	**130.5 M4**	**128.9 M4**

A - 3

Test Laboratory: Bureau Veritas ADT

E_Dipole_WD_1880

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
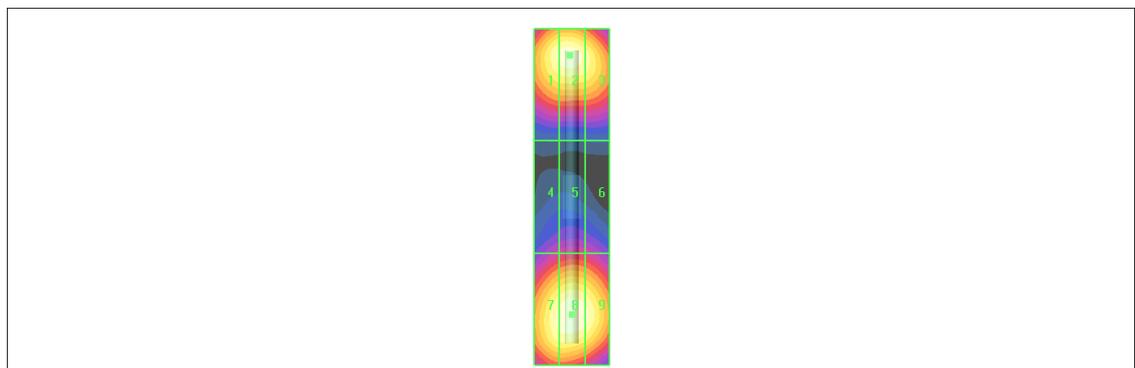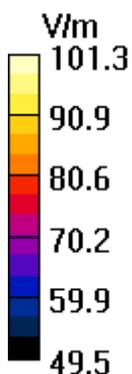Maximum value of peak Total field = 102.2 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 101.7 V/m; Power Drift = -0.029 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
101.4 M3	**102.2 M3**	**98.0 M3**
Grid 4	Grid 5	Grid 6
71.4 M3	**74.0 M3**	**73.2 M3**
Grid 7	Grid 8	Grid 9
98.9 M3	**101.5 M3**	**99.5 M3**

A - 4

Test Laboratory: Bureau Veritas ADT

E_Dipole_CW_1880MHz

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
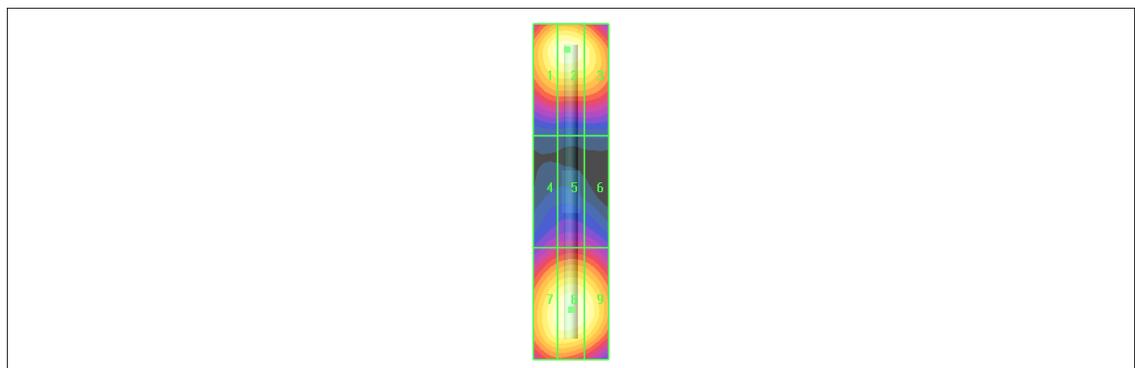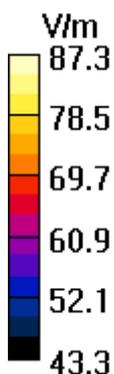Maximum value of peak Total field = 101.3 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 101.1 V/m; Power Drift = -0.020 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
98.9 M3	**100.2 M3**	**96.8 M3**
Grid 4	Grid 5	Grid 6
71.9 M3	**73.9 M3**	**72.6 M3**
Grid 7	Grid 8	Grid 9
99.1 M3	**101.3 M3**	**99.1 M3**

A - 5

Test Laboratory: Bureau Veritas ADT

E_Dipole_AM_1880MHz

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: AM ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 87.3 V/m
Probe Modulation Factor = 1.00
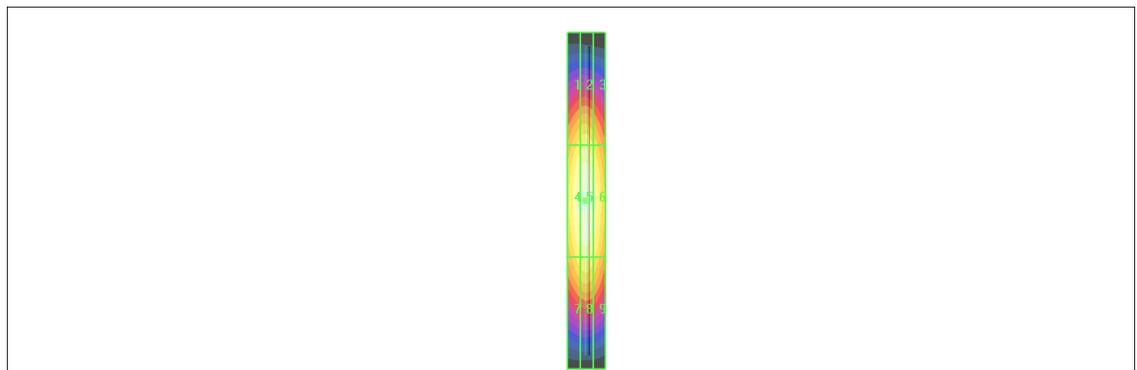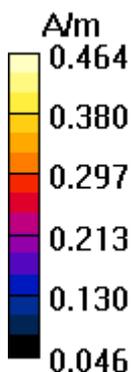Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 87.4 V/m; Power Drift = -0.005 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
85.7 M3	**86.6 M3**	**83.8 M3**
Grid 4	Grid 5	Grid 6
62.8 M4	**64.4 M3**	**63.4 M3**
Grid 7	Grid 8	Grid 9
85.9 M3	**87.3 M3**	**85.7 M3**

A - 6

Test Laboratory: Bureau Veritas ADT

H_WD_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: CDMA850 ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
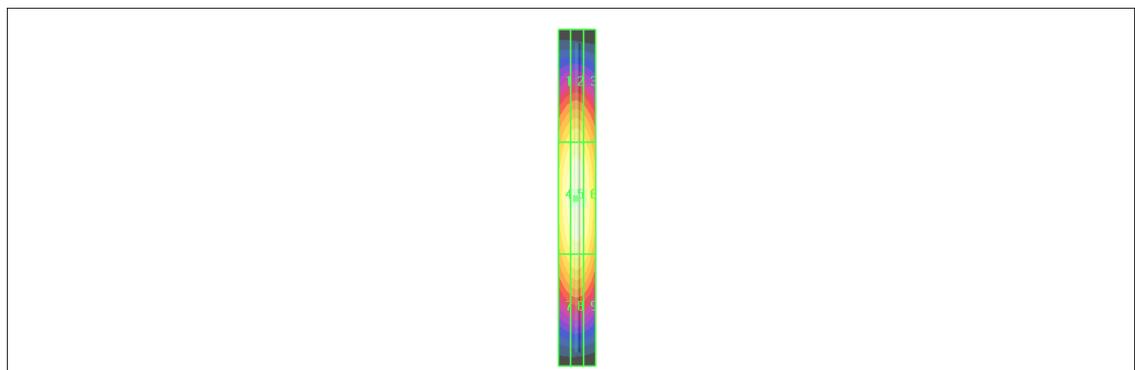Maximum value of peak Total field = 0.464 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.487 A/m; Power Drift = -0.096 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.395 M4	**0.408 M4**	**0.380 M4**
Grid 4	Grid 5	Grid 6
0.449 M4	**0.464 M4**	**0.435 M4**
Grid 7	Grid 8	Grid 9
0.401 M4	**0.416 M4**	**0.392 M4**

Test Laboratory: Bureau Veritas ADT

H_CW_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: CW ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
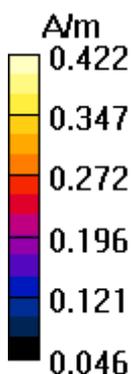Maximum value of peak Total field = 0.422 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.446 A/m; Power Drift = -0.058 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.366 M4	**0.375 M4**	**0.357 M4**
Grid 4	Grid 5	Grid 6
0.412 M4	**0.422 M4**	**0.404 M4**
Grid 7	Grid 8	Grid 9
0.367 M4	**0.379 M4**	**0.363 M4**

A/m
0.422
0.347
0.272
0.196
0.121
0.046

A - 8

Test Laboratory: Bureau Veritas ADT

H_Dipole_AM_836.52MHz

DUT: HAC-Dipole 835 MHz ; Type: D835V3 ; Serial: 1149 ; Test Frequency: 836.52 MHz

Communication System: AM ; Frequency: 836.52 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
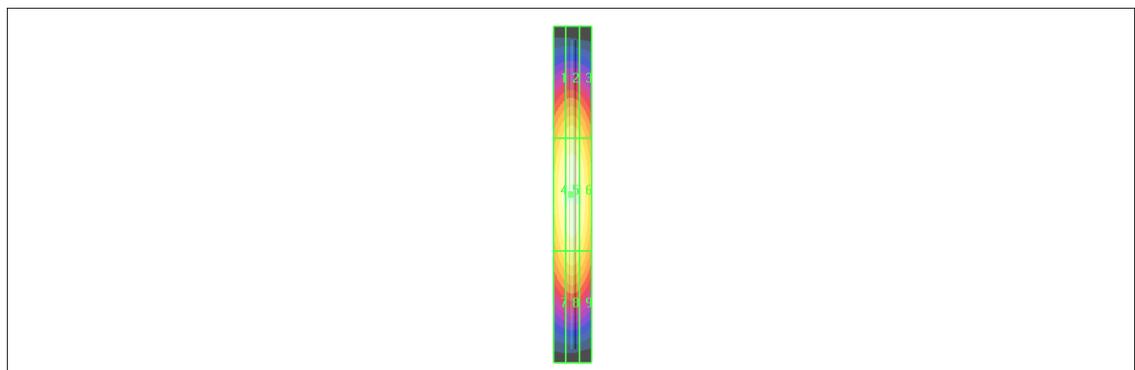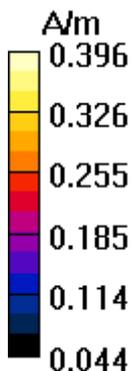Maximum value of peak Total field = 0.396 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.417 A/m; Power Drift = -0.004 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.342 M4	**0.351 M4**	**0.334 M4**
Grid 4	Grid 5	Grid 6
0.386 M4	**0.396 M4**	**0.379 M4**
Grid 7	Grid 8	Grid 9
0.343 M4	**0.355 M4**	**0.340 M4**

A - 9

Test Laboratory: Bureau Veritas ADT

H_Dipole_WD_1880MHz

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CDMA1900 ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: OQPSK
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

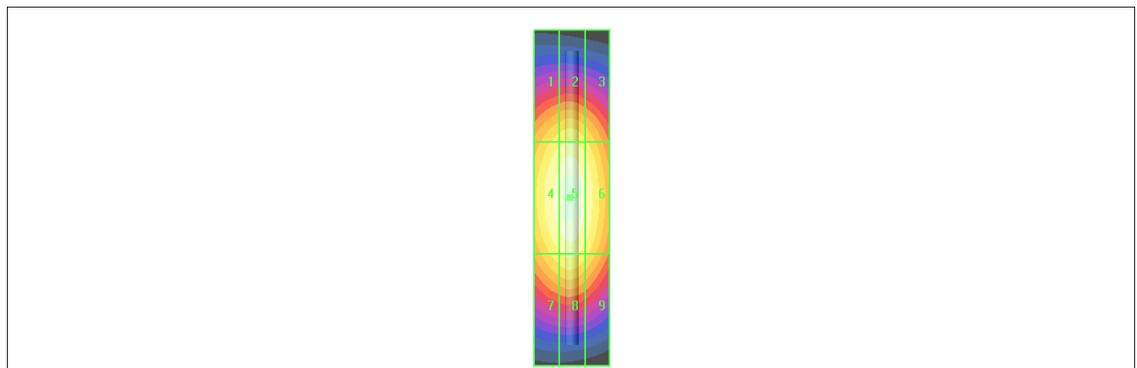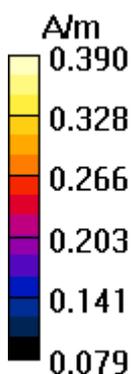Maximum value of peak Total field = 0.390 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.413 A/m; Power Drift = -0.016 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.341 M2	**0.351 M2**	**0.332 M3**
Grid 4	Grid 5	Grid 6
0.379 M2	**0.390 M2**	**0.369 M2**
Grid 7	Grid 8	Grid 9
0.344 M2	**0.356 M2**	**0.336 M3**

Test Laboratory: Bureau Veritas ADT

H_Dipole_CW_1880

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
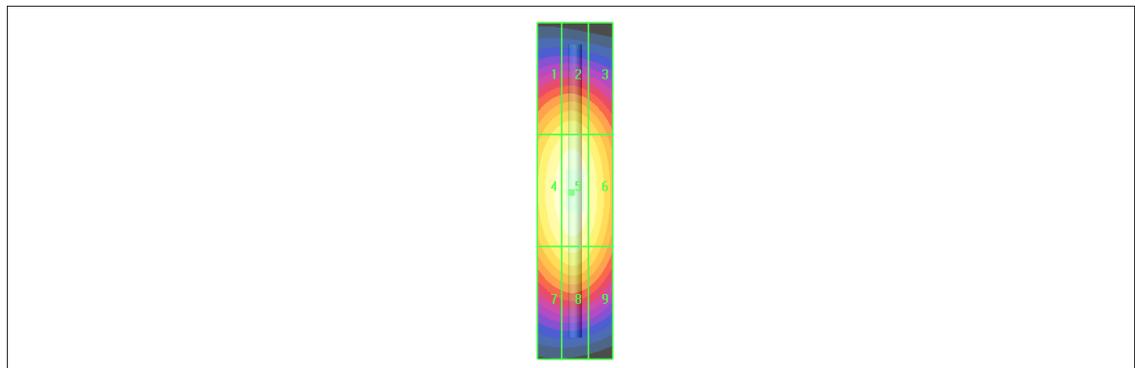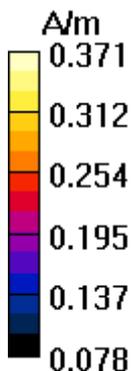Maximum value of peak Total field = 0.371 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.390 A/m; Power Drift = -0.004 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.329 M3	**0.335 M3**	**0.318 M3**
Grid 4	Grid 5	Grid 6
0.364 M2	**0.371 M2**	**0.353 M2**
Grid 7	Grid 8	Grid 9
0.333 M3	**0.341 M2**	**0.324 M3**

A - 11

Test Laboratory: Bureau Veritas ADT

H_Dipole_AM_1880MHz

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: AM ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: AM
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
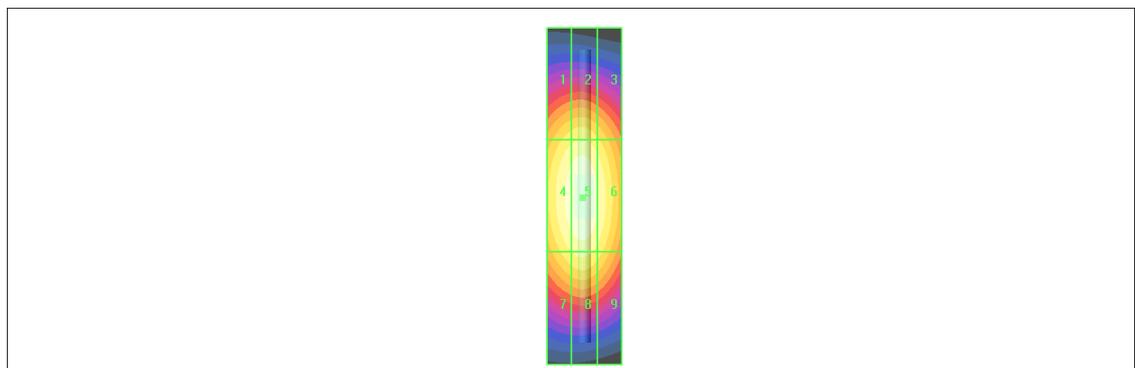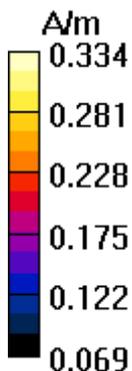Maximum value of peak Total field = 0.334 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.350 A/m; Power Drift = 0.014 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.294 M3	**0.301 M3**	**0.284 M3**
Grid 4	Grid 5	Grid 6
0.326 M3	**0.334 M3**	**0.316 M3**
Grid 7	Grid 8	Grid 9
0.298 M3	**0.306 M3**	**0.291 M3**

A - 12

Test Laboratory: Bureau Veritas ADT

E_835MHz

DUT: HAC-Dipole 835 MHz ; Type: CD835V3 ; Serial: 1149 ; Test Frequency: 835 MHz

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, $ε_r$ = 1; ρ = 1000 kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
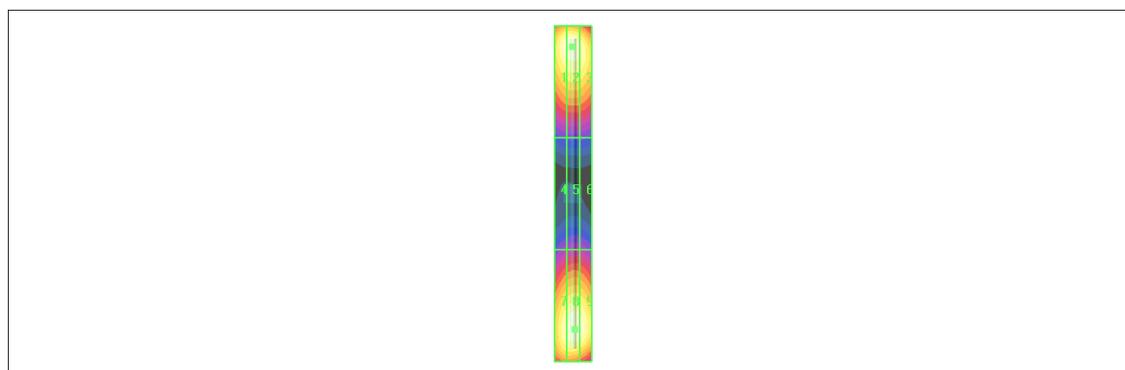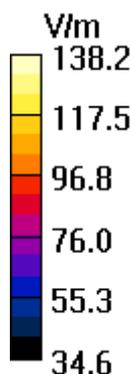Maximum value of peak Total field = 138.2 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 104.7 V/m; Power Drift = -0.041 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
135.3 M4	**137.1 M4**	**132.8 M4**
Grid 4	Grid 5	Grid 6
74.0 M4	**76.8 M4**	**75.8 M4**
Grid 7	Grid 8	Grid 9
133.0 M4	**138.2 M4**	**136.2 M4**

V/m
138.2
117.5
96.8
76.0
55.3
34.6

A - 1

Test Laboratory: Bureau Veritas ADT

E_1880MHz

DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Phantom section: E Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: ER3DV6 - SN2302 ; ConvF(1, 1, 1) ; Calibrated: 2009/6/23
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
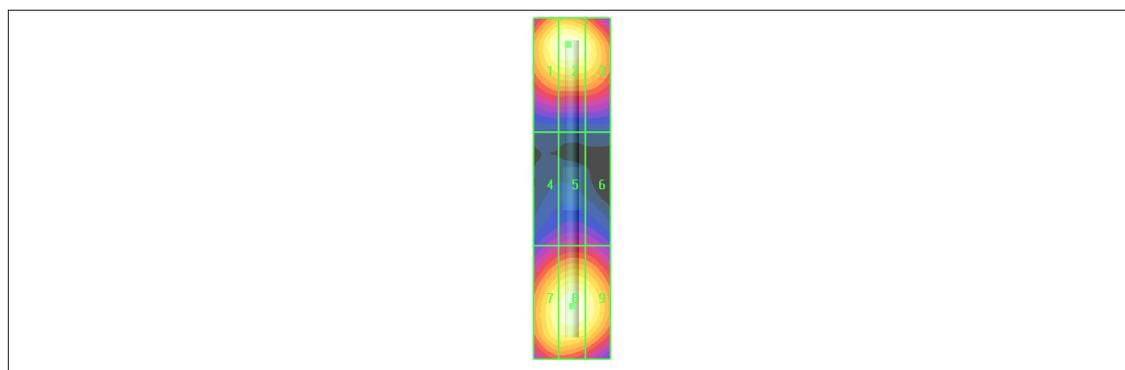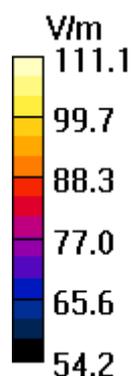Maximum value of peak Total field = 111.1 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 110.5 V/m; Power Drift = -0.011 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
109.6 M3	**111.1 M3**	**106.9 M3**
Grid 4	Grid 5	Grid 6
78.0 M3	**80.6 M3**	**79.5 M3**
Grid 7	Grid 8	Grid 9
107.8 M3	**110.7 M3**	**108.5 M3**

A - 2

Test Laboratory: Bureau Veritas ADT

H_835MHz

DUT: HAC-Dipole 835 MHz ; Type: CD835V3 ; Serial: 1149 ; Test Frequency: 835 MHz

Communication System: CW ; Frequency: 835 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
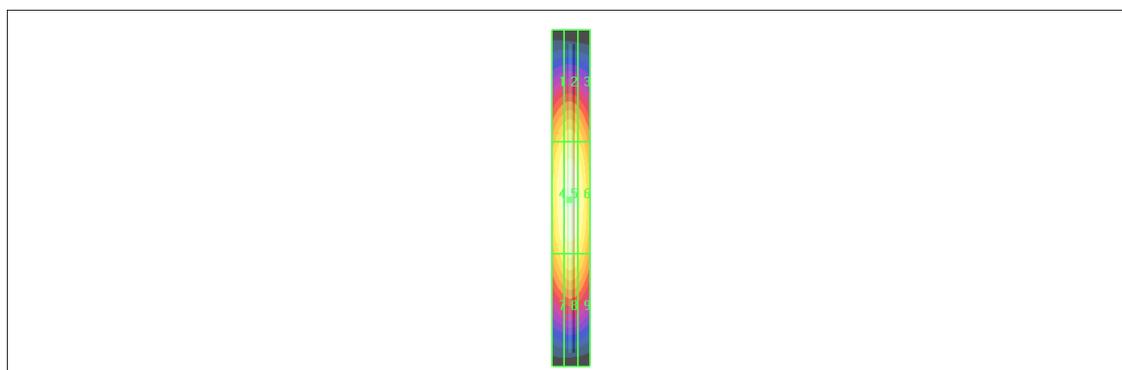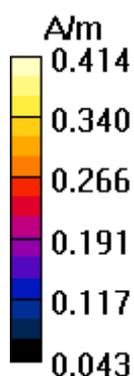Maximum value of peak Total field = 0.414 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.441 A/m; Power Drift = -0.141 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.357 M4	**0.365 M4**	**0.347 M4**
Grid 4	Grid 5	Grid 6
0.404 M4	**0.414 M4**	**0.395 M4**
Grid 7	Grid 8	Grid 9
0.361 M4	**0.372 M4**	**0.357 M4**

A - 3

Test Laboratory: Bureau Veritas ADT

H_1880MHz
DUT: HAC Dipole 1880 MHz ; Type: CD1880V3 ; Serial: 1032 ; Test Frequency: 1880 MHz

Communication System: CW ; Frequency: 1880 MHz; Duty Cycle: 1:1; Modulation type: CW
Medium: Air;Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom section: H Dipole Section   Measurement Standard: DASY4 (High Precision Assessment);

DASY4 Configuration:
- Probe: H3DV6 - SN6187 ; ; Calibrated: 2009/6/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn861; Calibrated: 2010/1/22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA; Serial: TP-1202
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.391 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, 354.7 mm
Reference Value = 0.412 A/m; Power Drift = -0.027 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.347 M2	**0.354 M2**	**0.337 M3**
Grid 4	Grid 5	Grid 6
0.384 M2	**0.391 M2**	**0.371 M2**
Grid 7	Grid 8	Grid 9
0.351 M2	**0.357 M2**	**0.338 M3**