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	Author Data <b>Daoud Attayi</b>	Dates of Test <b>August 31- Sep. 23, 2015</b>	Report No <b>RTS-6066-1509-19</b>

## **Annex A: Measurement data and plots**

### **A.1 MIF validation plots**

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Date/Time: 12:00:00 AM

Test Laboratory: BlackBerry RTS

**MIF\_measurements\_08\_31\_15**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 111340110**

Communication System: UID 0, CW; Frequency: 835 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: TCoil Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ; Calibrated: 1/19/2015
- Sensor-Surface: 0mm (Fix Surface), z = 2.5
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/MIF Measurements/MIF\_AM80%\_1KHz\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-1.29 dB		0.00 dB	
PMF	3.80 dB	1.549	0.00 dB	
Detector Level	4.32 dBm		0.00 dB	
RFAIP	3.03 dBm		0.00 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements/MIF\_AM10%\_1KHz\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
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MIF	-9.26 dB		0.00 dB	
PMF	0.78 dB	1.094	0.00 dB	
Detector Level	4.24 dBm		0.00 dB	
RFAIP	-5.02 dBm		0.00 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements/MIF\_AM1%\_1KHz\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-19.22 dB		0.01 dB	
PMF	0.09 dB	1.010	0.00 dB	
Detector Level	4.21 dBm		0.00 dB	
RFAIP	-15.01 dBm		0.01 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements/MIF\_GSM\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB


<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	3.44 dB		0.00 dB	
PMF	9.19 dB	2.881	0.01 dB	
Detector Level	-2.52 dBm		0.00 dB	
RFAIP	0.94 dBm		0.01 dB	(MIF+CF+Detector Level)

**Configuration/MIF**

**Measurements/MIF\_WCDMA\_Voice\_AMR12\_2kps\_Mute\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-25.78 dB		0.08 dB	MIF Low
PMF	0.06 dB	1.007	0.00 dB	
Detector Level	-1.56 dBm		0.00 dB	
RFAIP	-27.34 dBm		0.08 dB	(MIF+CF+Detector Level)

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Date/Time: 12:00:00 AM

Test Laboratory: BlackBerry RTS

**MIF\_WiFi\_measurements\_08\_31\_15**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 111340110**

Communication System: UID 0, 802.11 b (2450) (0); Frequency: 2437 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: TCoil Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ; Calibrated: 1/19/2015
- Sensor-Surface: 0mm (Fix Surface), z = 2.5
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Configuration/MIF Measurements**

**WiFi\_VoIP/MIF\_AM80%\_1KHz\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-1.30 dB		0.00 dB	
PMF	3.81 dB	1.550	0.00 dB	
Detector Level	8.07 dBm		0.00 dB	
RFAIP	6.78 dBm		0.00 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements**

**WiFi\_VoIP/MIF\_AM10%\_1KHz\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
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MIF	-9.30 dB		0.00 dB	
PMF	0.77 dB	1.093	0.00 dB	
Detector Level	8.09 dBm		0.00 dB	
RFAIP	-1.20 dBm		0.01 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements****WiFi\_VoIP/MIF\_AM1%\_1KHz\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-19.26 dB		0.01 dB	
PMF	0.09 dB	1.010	0.00 dB	
Detector Level	8.06 dBm		0.00 dB	
RFAIP	-11.20 dBm		0.01 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11b\_Rate\_1Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-13.06 dB		0.09 dB	
PMF	0.44 dB	1.052	0.04 dB	
Detector Level	5.11 dBm		0.02 dB	
RFAIP	-7.95 dBm		0.11 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11b\_Rate\_2Mbps**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-12.28 dB		0.08 dB	
PMF	0.48 dB	1.056	0.03 dB	
Detector Level	5.22 dBm		0.01 dB	
RFAIP	-7.06 dBm		0.09 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11b\_Rate\_5.5Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB



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Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-9.76 dB		0.06 dB	
PMF	0.67 dB	1.080	0.05 dB	
Detector Level	5.41 dBm		0.01 dB	
RFAIP	-4.35 dBm		0.07 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11b\_Rate\_11Mbps**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-8.99 dB		0.11 dB	
PMF	0.80 dB	1.096	0.04 dB	
Detector Level	5.31 dBm		0.01 dB	
RFAIP	-3.68 dBm		0.12 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11g\_Rate\_6Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.07 dB		0.04 dB	
PMF	0.89 dB	1.108	0.01 dB	
Detector Level	5.83 dBm		0.01 dB	
RFAIP	-4.24 dBm		0.05 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11g\_Rate\_9Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-9.40 dB		0.08 dB	
PMF	1.05 dB	1.129	0.01 dB	
Detector Level	5.70 dBm		0.01 dB	
RFAIP	-3.70 dBm		0.09 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11g\_Rate\_18Mbps**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB



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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.13 dB		0.14 dB	
PMF	1.08 dB	1.132	0.03 dB	
Detector Level	5.52 dBm		0.00 dB	
RFAIP	-2.61 dBm		0.14 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11g\_Rate\_54Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.62 dB		0.13 dB	
PMF	1.91 dB	1.246	0.05 dB	
Detector Level	2.40 dBm		0.01 dB	
RFAIP	-6.23 dBm		0.14 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_6.5Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.94 dB		0.06 dB	
PMF	0.95 dB	1.116	0.02 dB	
Detector Level	4.13 dBm		0.01 dB	
RFAIP	-6.81 dBm		0.06 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_39Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-7.94 dB		0.14 dB	
PMF	1.32 dB	1.164	0.01 dB	
Detector Level	2.02 dBm		0.01 dB	
RFAIP	-5.93 dBm		0.15 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_65Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB



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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-7.91 dB		0.13 dB	
PMF	1.63 dB	1.206	0.01 dB	
Detector Level	0.90 dBm		0.01 dB	
RFAIP	-7.01 dBm		0.14 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11a\_Rate\_6Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.19 dB		0.09 dB	
PMF	0.95 dB	1.116	0.05 dB	
Detector Level	2.92 dBm		0.10 dB	
RFAIP	-7.27 dBm		0.19 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11a\_Rate\_24Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-7.98 dB		0.15 dB	
PMF	1.47 dB	1.184	0.02 dB	
Detector Level	1.95 dBm		0.01 dB	
RFAIP	-6.03 dBm		0.16 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11a\_Rate\_54Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.92 dB		0.11 dB	
PMF	1.77 dB	1.227	0.02 dB	
Detector Level	-0.05 dBm		0.01 dB	
RFAIP	-8.97 dBm		0.12 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_6.5Mbps 2**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB





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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-11.07 dB		0.03 dB	
PMF	1.04 dB	1.128	0.02 dB	
Detector Level	3.06 dBm		0.01 dB	
RFAIP	-8.01 dBm		0.04 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_39Mbps 2**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.14 dB		0.14 dB	
PMF	1.43 dB	1.179	0.04 dB	
Detector Level	1.61 dBm		0.01 dB	
RFAIP	-6.53 dBm		0.14 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11n\_Rate\_65Mbps 2**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.11 dB		0.14 dB	
PMF	1.67 dB	1.212	0.01 dB	
Detector Level	-0.79 dBm		0.01 dB	
RFAIP	-8.89 dBm		0.15 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11ac\_Rate\_6Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.21 dB		0.05 dB	
PMF	0.83 dB	1.101	0.00 dB	
Detector Level	-0.89 dBm		0.02 dB	
RFAIP	-11.10 dBm		0.07 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11ac\_Rate\_9Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB



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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-9.59 dB		0.07 dB	
PMF	0.94 dB	1.114	0.01 dB	
Detector Level	-1.09 dBm		0.01 dB	
RFAIP	-10.68 dBm		0.08 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11ac\_Rate\_18Mbps**


Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.23 dB		0.16 dB	
PMF	0.99 dB	1.121	0.08 dB	
Detector Level	-1.26 dBm		0.00 dB	
RFAIP	-9.50 dBm		0.17 dB	(MIF+CF+Detector Level)

**Configuration/MIF Measurements WiFi\_VoIP/MIF\_802.11ac\_Rate\_54Mbps**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-8.80 dB		0.16 dB	
PMF	1.94 dB	1.250	0.02 dB	
Detector Level	-2.07 dBm		0.01 dB	
RFAIP	-10.87 dBm		0.17 dB	(MIF+CF+Detector Level)

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Date/Time: 12:00:00 AM

Test Laboratory: BlackBerry RTS

**MIF\_VoLTE\_measurements\_09\_23\_15**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161340110**

Communication System: UID 0, LTE 4 (0); Frequency: 1732.5 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: TCoil Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ; Calibrated: 1/19/2015
- Sensor-Surface: 0mm (Fix Surface), z = 2.5
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB1\_Offset0\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-14.84 dB		0.13 dB	
PMF	1.46 dB	1.183	0.17 dB	
Detector Level	8.98 dBm		0.04 dB	
RFAIP	-5.86 dBm		0.17 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB1\_Offset50\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-14.74 dB		0.15 dB	



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PMF	1.50 dB	1.188	0.18 dB	
Detector Level	8.70 dBm		0.05 dB	
RFAIP	-6.04 dBm		0.20 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB1\_Offset99\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-14.68 dB		0.26 dB	
PMF	1.48 dB	1.186	0.21 dB	
Detector Level	8.60 dBm		0.06 dB	
RFAIP	-6.07 dBm		0.33 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB50\_Offset0\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-21.24 dB		0.01 dB	
PMF	0.17 dB	1.020	0.00 dB	
Detector Level	8.01 dBm		0.00 dB	
RFAIP	-13.23 dBm		0.02 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB50\_Offset50\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-21.23 dB		0.02 dB	
PMF	0.17 dB	1.020	0.00 dB	
Detector Level	8.17 dBm		0.00 dB	
RFAIP	-13.06 dBm		0.03 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_QPSK\_RB100\_Offset0\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-21.88 dB		0.02 dB	



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PMF	0.15 dB	1.018	0.00 dB	
Detector Level	8.13 dBm		0.00 dB	
RFAIP	-13.75 dBm		0.02 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB1\_Offset0\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.42 dB		0.23 dB	
PMF	2.45 dB	1.326	0.13 dB	
Detector Level	8.00 dBm		0.04 dB	
RFAIP	-2.41 dBm		0.28 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB1\_Offset50\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.41 dB		0.17 dB	
PMF	2.46 dB	1.328	0.10 dB	
Detector Level	7.89 dBm		0.01 dB	
RFAIP	-2.53 dBm		0.18 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB1\_Offset99\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.32 dB		0.44 dB	
PMF	2.51 dB	1.335	0.12 dB	
Detector Level	7.91 dBm		0.03 dB	
RFAIP	-2.41 dBm		0.47 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB24\_Offset0\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB



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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-16.54 dB		0.08 dB	
PMF	0.53 dB	1.063	0.03 dB	
Detector Level	6.78 dBm		0.01 dB	
RFAIP	-9.76 dBm		0.09 dB	(MIF+CF+Detector Level)

### **Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB24\_Offset76\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-16.38 dB		0.09 dB	
PMF	0.57 dB	1.068	0.02 dB	
Detector Level	6.98 dBm		0.00 dB	
RFAIP	-9.39 dBm		0.09 dB	(MIF+CF+Detector Level)

### **Measurements/MIF\_VoLTE\_20MHz\_BW\_16QAM\_RB100\_Offset0\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-17.69 dB		0.06 dB	
PMF	0.34 dB	1.040	0.01 dB	
Detector Level	6.95 dBm		0.02 dB	
RFAIP	-10.74 dBm		0.07 dB	(MIF+CF+Detector Level)

### **Measurements/MIF\_VoLTE\_15MHz\_BW\_16QAM\_RB1\_Offset74\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.07 dB		0.02 dB	
PMF	2.27 dB	1.299	0.29 dB	
Detector Level	7.97 dBm		0.04 dB	
RFAIP	-2.10 dBm		0.07 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_10MHz\_BW\_16QAM\_RB1\_Offset49\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.10 dB		0.06 dB	
PMF	2.32 dB	1.307	0.11 dB	
Detector Level	8.32 dBm		0.03 dB	
RFAIP	-1.78 dBm		0.10 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_5MHz\_BW\_16QAM\_RB1\_Offset24\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.74 dB		0.40 dB	
PMF	2.57 dB	1.345	0.25 dB	
Detector Level	7.99 dBm		0.04 dB	
RFAIP	-2.75 dBm		0.44 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_3MHz\_BW\_16QAM\_RB1\_Offset14\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.22 dB		0.09 dB	
PMF	2.15 dB	1.281	0.19 dB	
Detector Level	7.92 dBm		0.03 dB	
RFAIP	-2.30 dBm		0.13 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_1.4MHz\_BW\_16QAM\_RB1\_Offset5\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-14.89 dB		0.23 dB	
PMF	1.34 dB	1.167	0.16 dB	
Detector Level	8.68 dBm		0.05 dB	

RFAIP                      -6.21 dBm                                      0.28 dB      (MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_Narrow\_Band\_Codec\_4.75kbits\_15MHz\_BW\_16Q  
 AM\_RB1\_Offset74\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.06 dB		0.03 dB	
PMF	2.28 dB	1.301	0.11 dB	
Detector Level	7.99 dBm		0.02 dB	
RFAIP	-2.07 dBm		0.06 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_Narrow\_Band\_Codec\_7.4kbits\_15MHz\_BW\_16Q  
 AM\_RB1\_Offset74\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.06 dB		0.07 dB	
PMF	2.31 dB	1.305	0.14 dB	
Detector Level	7.90 dBm		0.03 dB	
RFAIP	-2.16 dBm		0.10 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_Narrow\_Band\_Codec\_12.2kbits\_15MHz\_BW\_16Q  
 AM\_RB1\_Offset74\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

Quantity	Value [log]	[linear]	Fluctuation	Remark
MIF	-10.09 dB		0.06 dB	
PMF	2.35 dB	1.310	0.09 dB	
Detector Level	7.91 dBm		0.03 dB	
RFAIP	-2.17 dBm		0.09 dB	(MIF+CF+Detector Level)

**Measurements/MIF\_VoLTE\_Wide\_Band\_Codec\_6.6kbits\_15MHz\_BW\_16QAM  
 \_RB1\_Offset74\_Measurement**

Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB





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<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.07 dB		0.04 dB	
PMF	2.30 dB	1.303	0.09 dB	
Detector Level	7.92 dBm		0.06 dB	
RFAIP	-2.15 dBm		0.10 dB	(MIF+CF+Detector Level)

### **Measurements/MIF\_VoLTE\_Wide\_Band\_Codec\_15.85kbps\_15MHz\_BW\_16QAM\_RB1\_Offset74\_Measurement**


Calibration Factors: 1.095, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.04 dB		0.06 dB	
PMF	2.34 dB	1.310	0.19 dB	
Detector Level	7.82 dBm		0.04 dB	
RFAIP	-2.22 dBm		0.10 dB	(MIF+CF+Detector Level)


### **Measurements/MIF\_VoLTE\_Wide\_Band\_Codec\_23.85kbps\_15MHz\_BW\_16QAM\_RB1\_Offset74\_Measurement**

Calibration Factors: 1.096, 1.095; MIF Scale: 0.00 dB; Coupling Factor (CF): 0.00 dB

<b>Quantity</b>	<b>Value [log]</b>	<b>[linear]</b>	<b>Fluctuation</b>	<b>Remark</b>
MIF	-10.05 dB		0.10 dB	
PMF	2.34 dB	1.309	0.22 dB	
Detector Level	7.82 dBm		0.05 dB	
RFAIP	-2.24 dBm		0.15 dB	(MIF+CF+Detector Level)

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## A.2 Dipole validation

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Date/Time: 8/31/2015 9:22:38 AM

Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_validation\_08\_31\_15**

**DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: 1011**

Communication System: UID 0, CW For MIF; Frequency: 835 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**CD835 Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD835 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 102.2 V/m; Power Drift = 0.04 dB


PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 108.4 V/m

**Near-field category: M4 (AWF 0 dB)**

PMF scaled E-field

<b>Grid 1 M4</b> <b>91.88 V/m</b>	<b>Grid 2 M4</b> <b>97.19 V/m</b>	<b>Grid 3 M4</b> <b>97.22 V/m</b>
<b>Grid 4 M4</b> <b>57.74 V/m</b>	<b>Grid 5 M4</b> <b>59.11 V/m</b>	<b>Grid 6 M4</b> <b>58.88 V/m</b>

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<b>Grid 7 M4</b> <b>103.4 V/m</b>	<b>Grid 8 M4</b> <b>108.4 V/m</b>	<b>Grid 9 M4</b> <b>108.1 V/m</b>
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**Cursor:**

Total = 108.4 V/m

E Category: M4

Location: -2.5, 78, 9.7 mm

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Date/Time: 8/31/2015 9:35:14 AM

Test Laboratory: BlackBerry RTS

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: 1008**

Communication System: UID 0, CW For MIF; Frequency: 1880 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)


**CD1880 Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD1880 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 141.3 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.


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E-field emissions = 85.24 V/m  
**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field

<b>Grid 1 M3</b> <b>81.03 V/m</b>	<b>Grid 2 M3</b> <b>85.24 V/m</b>	<b>Grid 3 M3</b> <b>85.24 V/m</b>
<b>Grid 4 M3</b> <b>66.62 V/m</b>	<b>Grid 5 M3</b> <b>68.42 V/m</b>	<b>Grid 6 M3</b> <b>68.32 V/m</b>
<b>Grid 7 M3</b> <b>78.93 V/m</b>	<b>Grid 8 M3</b> <b>83.76 V/m</b>	<b>Grid 9 M3</b> <b>83.76 V/m</b>

**Cursor:**  
Total = 85.24 V/m  
E Category: M3  
Location: -3.5, -31, 9.7 mm

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Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_validation\_08\_31\_15\_2300-2600**

Date/Time: 8/31/2015 10:47:02 AM

Test Laboratory: BlackBerry RTS

**DUT: HAC Dipole 2450 MHz; Type: CD2450V3;**

Communication System: UID 0, CW (0); Frequency: 2300 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**2300 MHz Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance) 2/E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 90.25 V/m; Power Drift = -0.00 dB  
PMR not calibrated. PMF = 1.000 is applied.  
E-field emissions = 91.28 V/m  
**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field



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Grid 1 <b>M3</b> <b>86.12 V/m</b>	Grid 2 <b>M3</b> <b>90.18 V/m</b>	Grid 3 <b>M3</b> <b>90.13 V/m</b>
Grid 4 <b>M3</b> <b>82.52 V/m</b>	Grid 5 <b>M3</b> <b>85.15 V/m</b>	Grid 6 <b>M3</b> <b>84.87 V/m</b>
Grid 7 <b>M3</b> <b>85.62 V/m</b>	Grid 8 <b>M3</b> <b>91.28 V/m</b>	Grid 9 <b>M3</b> <b>91.27 V/m</b>

**Cursor:**

Total = 91.28 V/m

E Category: M3

Location: -3, 27.5, 9.7 mm

Date/Time: 8/31/2015 9:50:09 AM

**DUT: HAC Dipole 2450 MHz; Type: CD2450V3**

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

**DASY Configuration:**

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**CD2450 Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 90.18 V/m; Power Drift = 0.03 dB  
 PMR not calibrated. PMF = 1.000 is applied.  
 E-field emissions = 88.96 V/m  
**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>85.44 V/m</b>	Grid 2 <b>M3</b> <b>88.92 V/m</b>	Grid 3 <b>M3</b> <b>88.80 V/m</b>
Grid 4 <b>M3</b> <b>81.31 V/m</b>	Grid 5 <b>M3</b> <b>83.63 V/m</b>	Grid 6 <b>M3</b> <b>83.16 V/m</b>
Grid 7 <b>M3</b> <b>83.07 V/m</b>	Grid 8 <b>M3</b> <b>88.96 V/m</b>	Grid 9 <b>M3</b> <b>88.96 V/m</b>

**Cursor:**

Total = 88.96 V/m  
 E Category: M3  
 Location: -3.5, 28, 9.7 mm

Date/Time: 8/31/2015 10:51:04 AM

Test Laboratory: BlackBerry RTS

**DUT: HAC Dipole 2450 MHz; Type: CD2450V3**

Communication System: UID 0, CW (0); Frequency: 2600 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: RF Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 9.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;



- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

**2600 MHz Dipole E-Field measurement (E-field scan for ANSI C63.19-2011 compliance) 2 2/E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1):**

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 79.05 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 84.83 V/m

**Near-field category: M3 (AWF 0 dB)**

PMF scaled E-field

Grid 1 <b>M3</b> <b>82.39 V/m</b>	Grid 2 <b>M3</b> <b>84.83 V/m</b>	Grid 3 <b>M3</b> <b>84.55 V/m</b>
Grid 4 <b>M3</b> <b>79.04 V/m</b>	Grid 5 <b>M3</b> <b>80.48 V/m</b>	Grid 6 <b>M3</b> <b>79.82 V/m</b>
Grid 7 <b>M3</b> <b>76.16 V/m</b>	Grid 8 <b>M3</b> <b>81.51 V/m</b>	Grid 9 <b>M3</b> <b>81.51 V/m</b>

**Cursor:**

Total = 84.83 V/m

E Category: M3

Location: -1.5, -22, 9.7 mm



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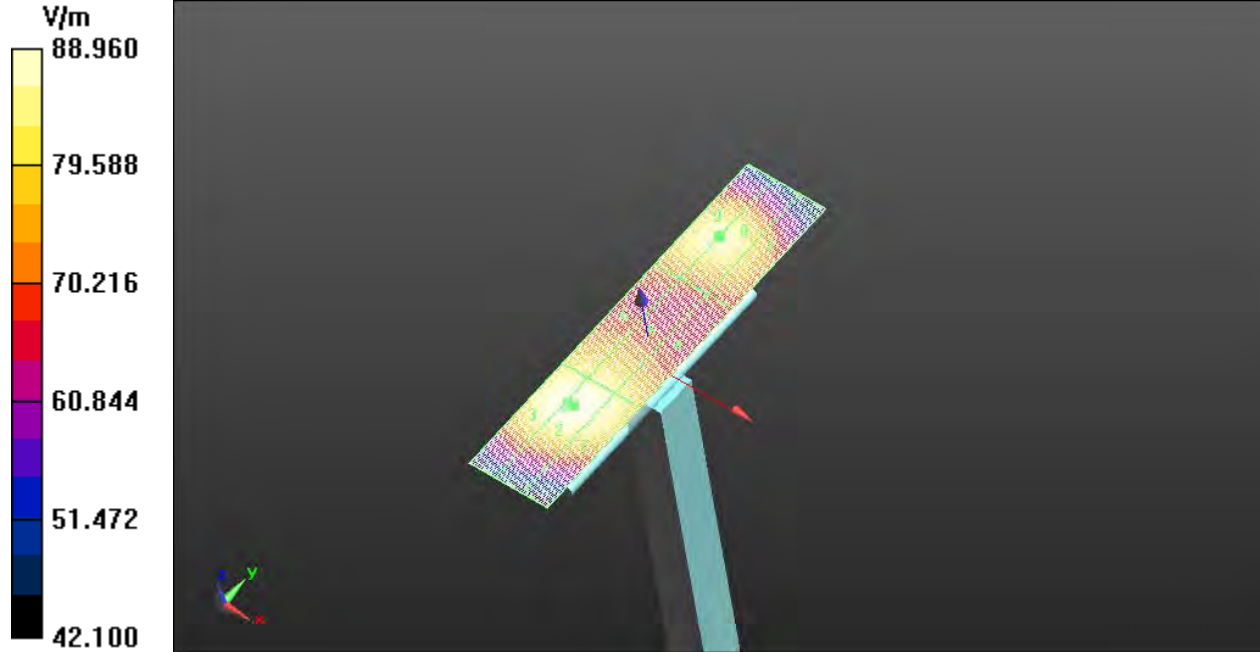
**August 31- Sep. 23, 2015**

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FCC ID

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for the BlackBerry® Smartphone RHK211LW (STV100-1)**

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Author Data

**Daoud Attayi**

Dates of Test

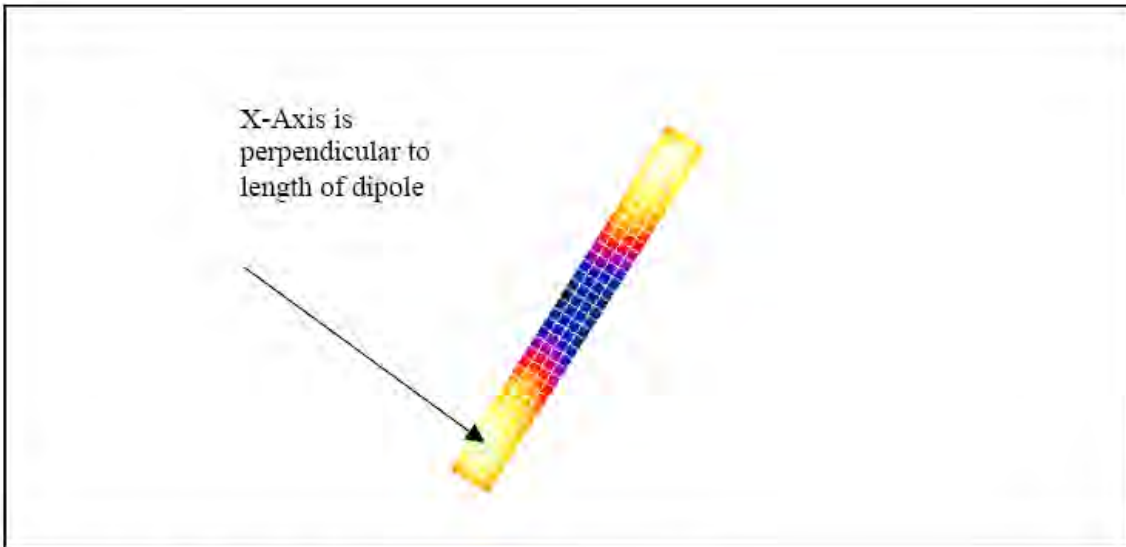
**August 31- Sep. 23, 2015**

Report No

**RTS-6066-1509-19**

FCC ID

**L6ARHK210LW**



The green line in this figure shows the axis along which the points lie.

#### **Comparison of 5mm and 2mm step sizes**

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types ( $< 0.4\%$  for E and  $0\%$  for H), demonstrating that 5mm is sufficient. The plots follow.



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**Lab: RIM Testing Services (RTS)**

**Dipole Validation 1880 MHz\_E-Field 07\_14\_05**

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of Total (measured) = 134.8 V/m

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):**

Measurement grid: dx=5mm, dy=5mm  
Maximum value of Total field (slot averaged) = 131.0 V/m

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

E in V/m (Time averaged)    E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
<b>123.2</b>	<b>138.1</b>	<b>138.4</b>	<b>123.2</b>	<b>138.1</b>	<b>138.4</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>80.9</b>	<b>92.3</b>	<b>92.2</b>	<b>80.9</b>	<b>92.3</b>	<b>92.2</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>119.8</b>	<b>131.0</b>	<b>130.7</b>	<b>119.8</b>	<b>131.0</b>	<b>130.7</b>

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Author Data  
**Daoud Attayi**

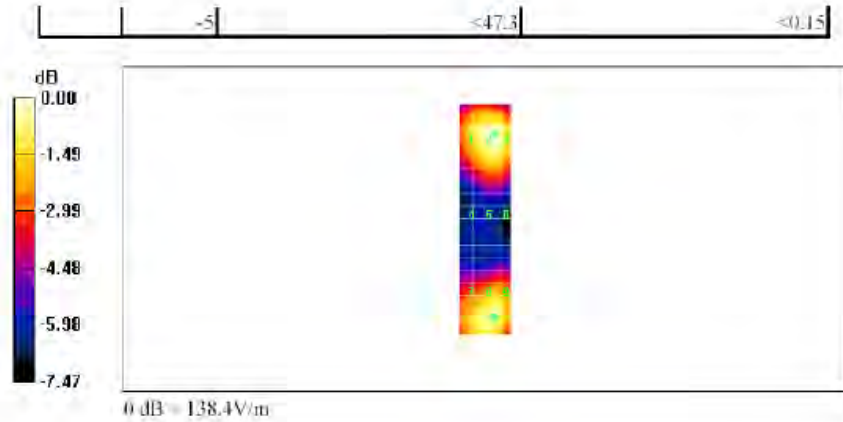
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Date/Time: 14/07/2005 11:44:51 AM

**Lab: RIM Testing Services (RTS)****Dipole Validation 1880 MHz\_2mm step\_E-Field 07\_14\_05****DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1  
 Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total (measured) = 138.0 V/m

**E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):**

Measurement grid: dx=2mm, dy=2mm  
 Maximum value of Total field (slot averaged) = 131.2 V/m

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

E in V/m (Time averaged)    E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
<b>123.1</b>	<b>138.6</b>	<b>138.6</b>	<b>123.1</b>	<b>138.6</b>	<b>138.6</b>
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
<b>81.4</b>	<b>92.1</b>	<b>91.6</b>	<b>81.4</b>	<b>92.1</b>	<b>91.6</b>
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
<b>121.3</b>	<b>131.2</b>	<b>131.0</b>	<b>121.3</b>	<b>131.2</b>	<b>131.0</b>

Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Author Data  
**Daoud Attayi**

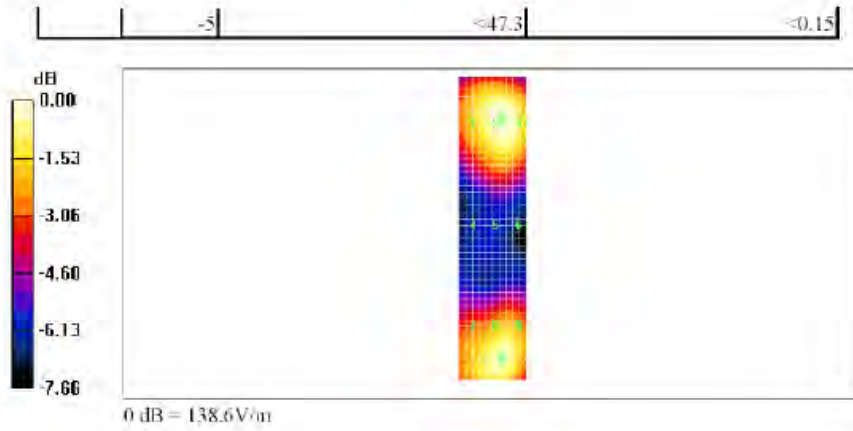
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### A.3 RF emission field plots



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Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 850\_slider closed**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz,  
Frequency: 848.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM850 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 54.07 V/m; Power Drift = -0.23 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 37.65 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>35.04 dBV/m</b>	Grid 2 <b>M4</b> <b>36 dBV/m</b>	Grid 3 <b>M4</b> <b>36.58 dBV/m</b>
Grid 4 <b>M4</b>	Grid 5 <b>M4</b>	Grid 6 <b>M4</b>

<b>35.11 dBV/m</b>	<b>37.65 dBV/m</b>	<b>36.1 dBV/m</b>
Grid 7 M4	Grid 8 M4	Grid 9 M4
<b>35.01 dBV/m</b>	<b>37.11 dBV/m</b>	<b>35.87 dBV/m</b>

**Cursor:**  
 Total = 37.65 dBV/m  
 E Category: M4  
 Location: -5, 0, 8.7 mm

**Device E-Field GSM850 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 59.58 V/m; Power Drift = -0.14 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 37.89 dBV/m  
**Emission category: M4**

MIF scaled E-field

Grid 1 M4	Grid 2 M4	Grid 3 M4
<b>36.88 dBV/m</b>	<b>37.78 dBV/m</b>	<b>36.83 dBV/m</b>
Grid 4 M4	Grid 5 M4	Grid 6 M4
<b>36.96 dBV/m</b>	<b>37.89 dBV/m</b>	<b>37.74 dBV/m</b>
Grid 7 M4	Grid 8 M4	Grid 9 M4
<b>36.64 dBV/m</b>	<b>37.97 dBV/m</b>	<b>36.78 dBV/m</b>

**Cursor:**  
 Total = 37.97 dBV/m  
 E Category: M4  
 Location: -4, 10, 8.7 mm

**Device E-Field GSM850 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid**

**Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
 Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 64.94 V/m; Power Drift = 0.01 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 38.20 dBV/m  
**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>36.59 dBV/m</b>	Grid 2 <b>M4</b> <b>38.15 dBV/m</b>	Grid 3 <b>M4</b> <b>38.19 dBV/m</b>
Grid 4 <b>M4</b> <b>36.54 dBV/m</b>	Grid 5 <b>M4</b> <b>38.2 dBV/m</b>	Grid 6 <b>M4</b> <b>38.23 dBV/m</b>
Grid 7 <b>M4</b> <b>36.27 dBV/m</b>	Grid 8 <b>M4</b> <b>37.42 dBV/m</b>	Grid 9 <b>M4</b> <b>37.32 dBV/m</b>

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**

Total = 38.23 dBV/m

E Category: M4

Location: -9, -0.5, 8.7 mm

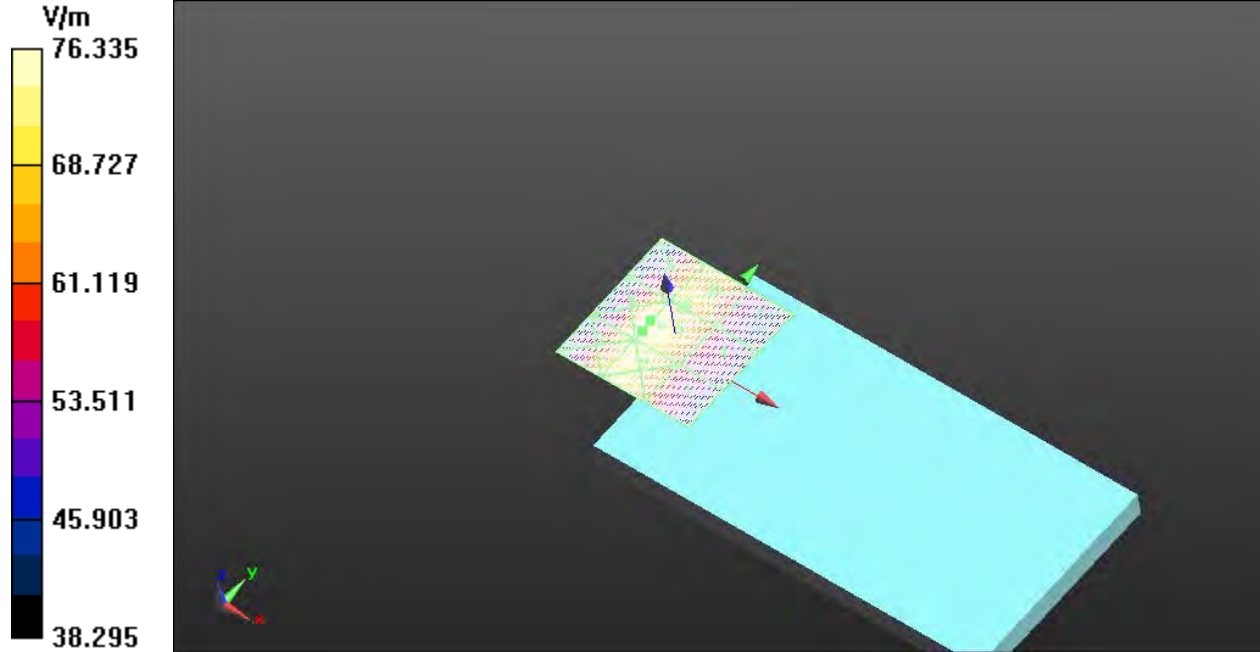



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Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 850\_slider closed\_telecoil center**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 850; Frequency: 848.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM850 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan\_Telecoil\_center/Hearing Aid Compatibility Test**

**(101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm  
Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 65.07 V/m; Power Drift = -0.11 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 37.63 dBV/m

**Emission category: M4**

MIF scaled E-field

Grid 1 <b>M4</b> <b>36.6 dBV/m</b>	Grid 2 <b>M4</b> <b>37.56 dBV/m</b>	Grid 3 <b>M4</b> <b>37.34 dBV/m</b>
Grid 4 <b>M4</b> <b>36.54 dBV/m</b>	Grid 5 <b>M4</b> <b>37.63 dBV/m</b>	Grid 6 <b>M4</b> <b>37.48 dBV/m</b>



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<b>Grid 7 M4</b> <b>36.53 dBV/m</b>	<b>Grid 8 M4</b> <b>37.64 dBV/m</b>	<b>Grid 9 M4</b> <b>37.48 dBV/m</b>
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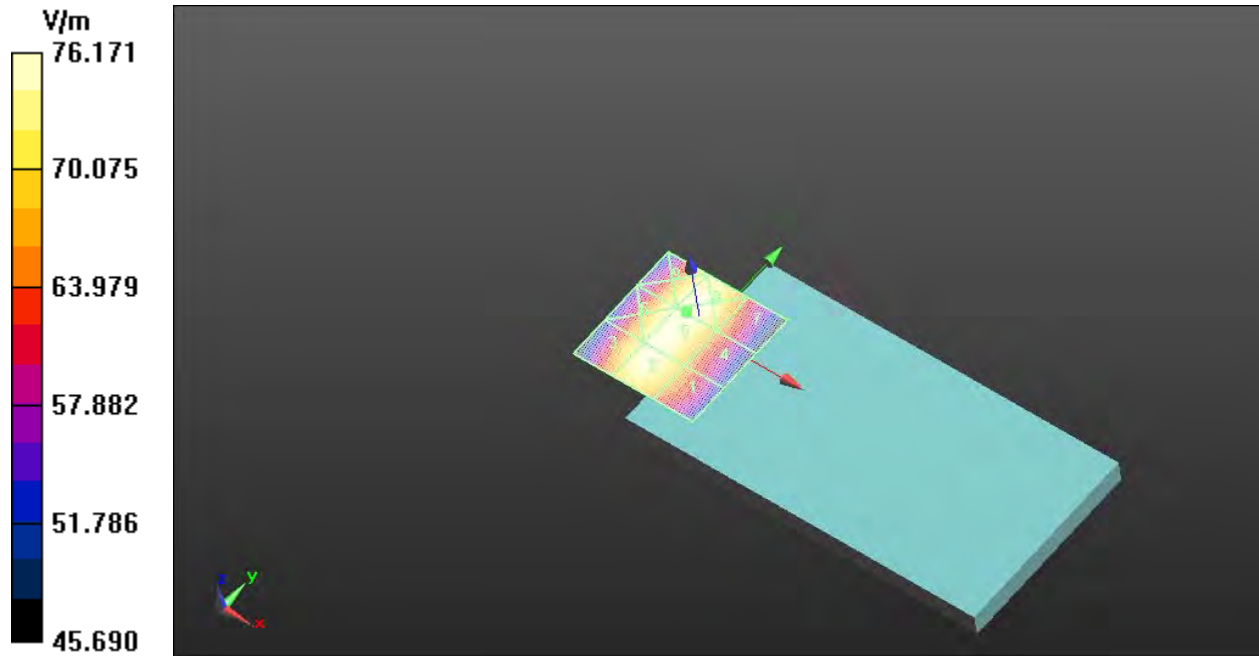
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m


**Cursor:**

Total = 37.64 dBV/m

E Category: M4

Location: -4.5, -0.5, 8.7 mm



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Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 1900\_slider closed**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz,  
Frequency: 1909.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM 1900 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 19.49 V/m; Power Drift = 0.11 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 31.81 dBV/m

**Emission category: M3**

MIF scaled E-field

Grid 1 <b>M3</b> <b>31.81 dBV/m</b>	Grid 2 <b>M3</b> <b>32.37 dBV/m</b>	Grid 3 <b>M3</b> <b>31.92 dBV/m</b>
Grid 4 <b>M4</b> <b>27.78 dBV/m</b>	Grid 5 <b>M4</b> <b>29.39 dBV/m</b>	Grid 6 <b>M4</b> <b>29.39 dBV/m</b>

<b>Grid 7 M4</b> <b>26.6 dBV/m</b>	<b>Grid 8 M3</b> <b>30.84 dBV/m</b>	<b>Grid 9 M3</b> <b>30.86 dBV/m</b>
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**Cursor:**  
 Total = 32.37 dBV/m  
 E Category: M3  
 Location: 0, -25, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 21.57 V/m; Power Drift = 0.09 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 32.94 dBV/m

**Emission category: M3**


MIF scaled E-field

<b>Grid 1 M3</b> <b>32.94 dBV/m</b>	<b>Grid 2 M3</b> <b>34.17 dBV/m</b>	<b>Grid 3 M3</b> <b>33.91 dBV/m</b>
<b>Grid 4 M4</b> <b>28.99 dBV/m</b>	<b>Grid 5 M3</b> <b>31.37 dBV/m</b>	<b>Grid 6 M3</b> <b>31.37 dBV/m</b>
<b>Grid 7 M4</b> <b>25.88 dBV/m</b>	<b>Grid 8 M4</b> <b>28.92 dBV/m</b>	<b>Grid 9 M4</b> <b>29.01 dBV/m</b>

**Cursor:**  
 Total = 34.17 dBV/m  
 E Category: M3  
 Location: -3, -25, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm



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		FCC ID <b>L6ARHK210LW</b>	

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 20.81 V/m; Power Drift = 0.06 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 31.09 dBV/m  
**Emission category: M3**

MIF scaled E-field

Grid 1 <b>M3</b> <b>31.09 dBV/m</b>	Grid 2 <b>M3</b> <b>32.99 dBV/m</b>	Grid 3 <b>M3</b> <b>32.9 dBV/m</b>
Grid 4 <b>M4</b> <b>27.71 dBV/m</b>	Grid 5 <b>M3</b> <b>31.07 dBV/m</b>	Grid 6 <b>M3</b> <b>31.11 dBV/m</b>
Grid 7 <b>M4</b> <b>27.83 dBV/m</b>	Grid 8 <b>M4</b> <b>29.03 dBV/m</b>	Grid 9 <b>M4</b> <b>29.64 dBV/m</b>

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**  
Total = 32.99 dBV/m  
E Category: M3  
Location: -5.5, -25, 8.7 mm

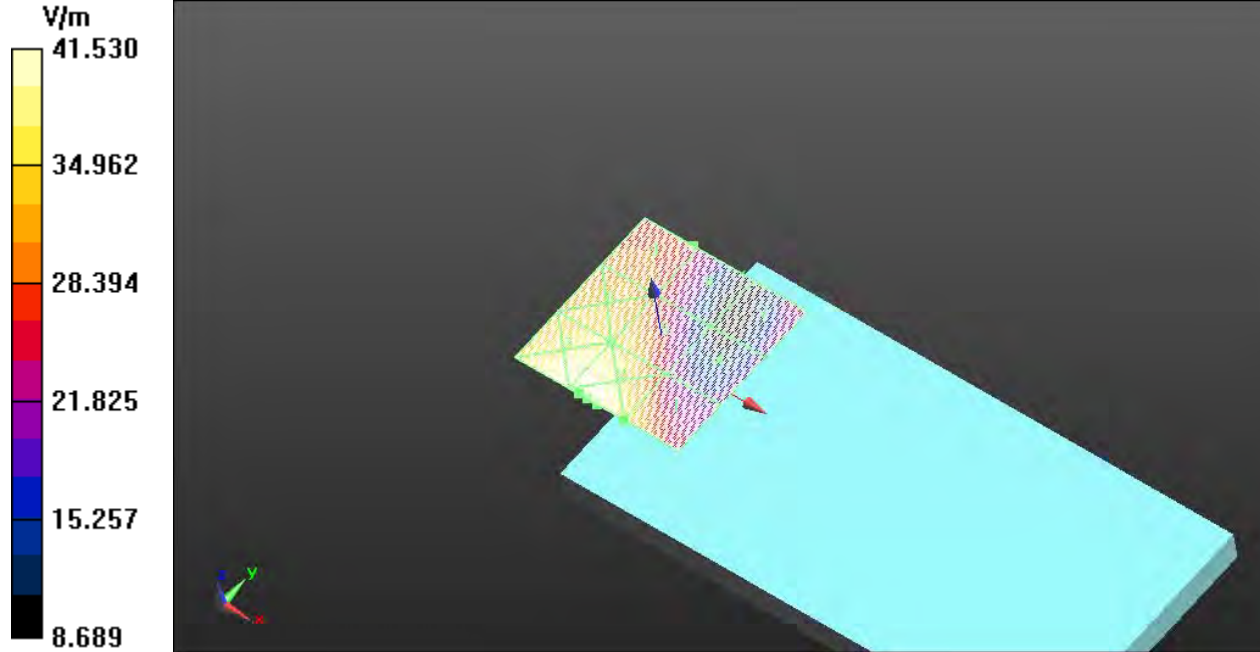



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Date/Time: 8/31/2015 3:04:33 PM

Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 1900\_slider closed\_Telecoil center**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 1900; Frequency: 1880 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: RF Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM 1900 measurement with ER probe\_slider closed/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Mid\_Chan\_Telecoil center/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 21.32 V/m; Power Drift = 0.12 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 33.74 dBV/m

**Emission category: M3**

MIF scaled E-field

<b>Grid 1 M3</b> <b>33.74 dBV/m</b>	<b>Grid 2 M3</b> <b>34.83 dBV/m</b>	<b>Grid 3 M3</b> <b>34.52 dBV/m</b>
<b>Grid 4 M3</b> <b>31.62 dBV/m</b>	<b>Grid 5 M3</b> <b>33.23 dBV/m</b>	<b>Grid 6 M3</b> <b>33.08 dBV/m</b>



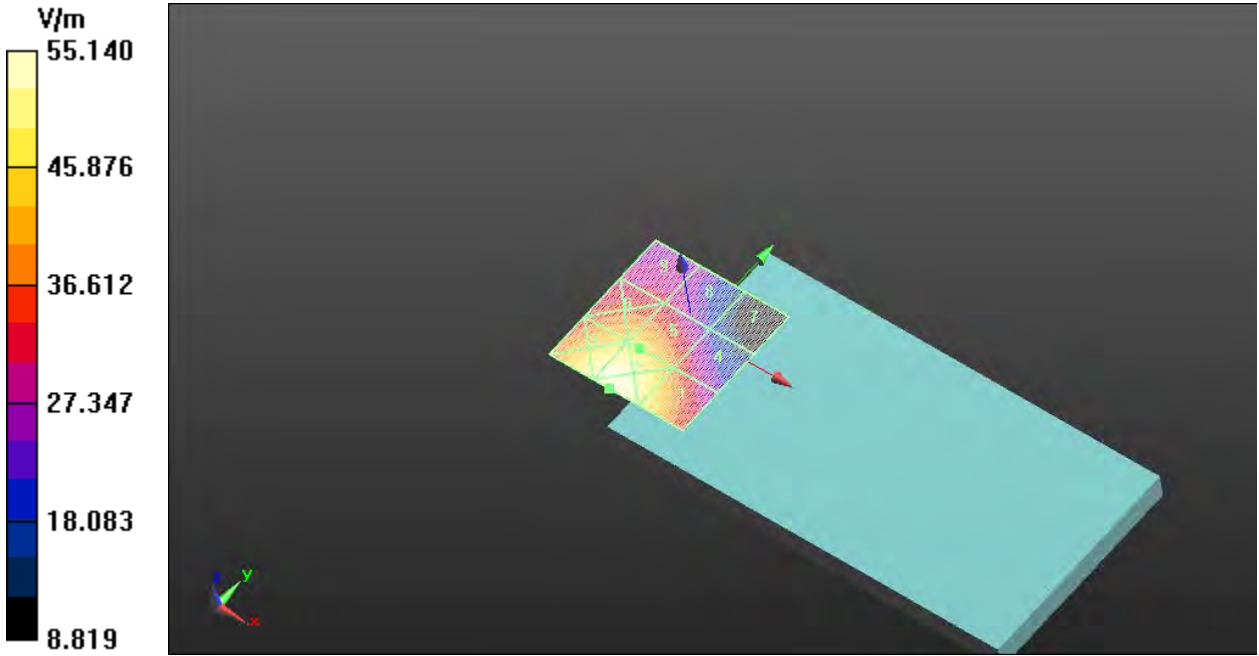
Author Data <b>Daoud Attayi</b>	Dates of Test <b>August 31- Sep. 23, 2015</b>	Report No <b>RTS-6066-1509-19</b>	FCC ID <b>L6ARHK210LW</b>
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<b>Grid 7 M4</b> <b>26.35 dBV/m</b>	<b>Grid 8 M3</b> <b>30.06 dBV/m</b>	<b>Grid 9 M3</b> <b>30.13 dBV/m</b>
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Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**

Total = 34.83 dBV/m  
E Category: M3  
Location: -2.5, -35, 8.7 mm



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<b>Daoud Attayi</b>	<b>August 31- Sep. 23, 2015</b>	<b>RTS-6066-1509-19</b>	<b>L6ARHK210LW</b>	

Date/Time: 8/31/2015 3:45:56 PM

Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 850\_slider open**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 850; Frequency: 824.2 MHz, Frequency: 836.8 MHz, Frequency: 848.8 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: RF Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS2 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM850 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 56.86 V/m; Power Drift = -0.06 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 36.46 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>35.46 dBV/m</b>	<b>Grid 2 M4</b> <b>36.42 dBV/m</b>	<b>Grid 3 M4</b> <b>36.27 dBV/m</b>
<b>Grid 4 M4</b> <b>35.55 dBV/m</b>	<b>Grid 5 M4</b> <b>36.46 dBV/m</b>	<b>Grid 6 M4</b> <b>36.31 dBV/m</b>

<b>Grid 7 M4</b> <b>35.31 dBV/m</b>	<b>Grid 8 M4</b> <b>36.32 dBV/m</b>	<b>Grid 9 M4</b> <b>36.1 dBV/m</b>
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**Cursor:**  
 Total = 36.46 dBV/m  
 E Category: M4  
 Location: -4, -1, 8.7 mm

**Device E-Field GSM850 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 44.85 V/m; Power Drift = -0.05 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 34.56 dBV/m


**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>33.3 dBV/m</b>	<b>Grid 2 M4</b> <b>34.43 dBV/m</b>	<b>Grid 3 M4</b> <b>34.37 dBV/m</b>
<b>Grid 4 M4</b> <b>33.4 dBV/m</b>	<b>Grid 5 M4</b> <b>34.56 dBV/m</b>	<b>Grid 6 M4</b> <b>34.47 dBV/m</b>
<b>Grid 7 M4</b> <b>33.22 dBV/m</b>	<b>Grid 8 M4</b> <b>34.43 dBV/m</b>	<b>Grid 9 M4</b> <b>34.34 dBV/m</b>

**Cursor:**  
 Total = 34.56 dBV/m  
 E Category: M4  
 Location: -5, 0.5, 8.7 mm

**Device E-Field GSM850 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

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		FCC ID <b>L6ARHK210LW</b>	

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 63.69 V/m; Power Drift = 0.03 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 37.56 dBV/m  
**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>36.52 dBV/m</b>	<b>Grid 2 M4</b> <b>37.51 dBV/m</b>	<b>Grid 3 M4</b> <b>37.37 dBV/m</b>
<b>Grid 4 M4</b> <b>36.61 dBV/m</b>	<b>Grid 5 M4</b> <b>37.56 dBV/m</b>	<b>Grid 6 M4</b> <b>37.47 dBV/m</b>
<b>Grid 7 M4</b> <b>36.25 dBV/m</b>	<b>Grid 8 M4</b> <b>37.43 dBV/m</b>	<b>Grid 9 M4</b> <b>37.3 dBV/m</b>

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

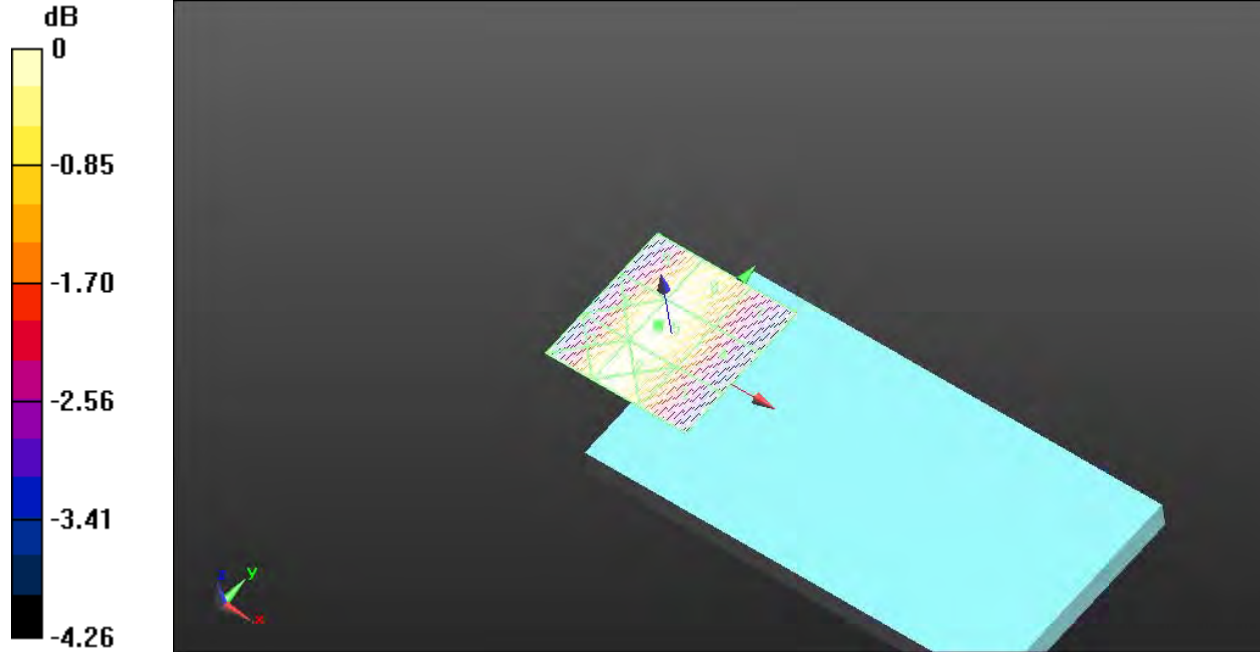
**Cursor:**  
Total = 37.56 dBV/m  
E Category: M4  
Location: -5, 0, 8.7 mm

Author Data  
**Daoud Attayi**

Dates of Test  
**August 31- Sep. 23, 2015**


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0 dB = 66.56 V/m = 36.46 dBV/m



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Date/Time: 8/31/2015 4:01:48 PM

Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 850\_slider open\_telecoil center**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 850; Frequency: 848.8 MHz  
 Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
 Phantom section: RF Section  
 Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM850 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan\_Telecoil center/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
 Reference Value = 64.43 V/m; Power Drift = 0.01 dB  
 Applied MIF = 3.44 dB  
 RF audio interference level = 37.60 dBV/m

**Emission category: M4**

MIF scaled E-field

<b>Grid 1 M4</b> <b>36.41 dBV/m</b>	<b>Grid 2 M4</b> <b>37.61 dBV/m</b>	<b>Grid 3 M4</b> <b>37.35 dBV/m</b>
<b>Grid 4 M4</b> <b>36.44 dBV/m</b>	<b>Grid 5 M4</b> <b>37.6 dBV/m</b>	<b>Grid 6 M4</b> <b>37.49 dBV/m</b>



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Author Data

**Daoud Attayi**

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<b>Grid 7 M4</b>	<b>Grid 8 M4</b>	<b>Grid 9 M4</b>
<b>36.45 dBV/m</b>	<b>37.52 dBV/m</b>	<b>37.41 dBV/m</b>

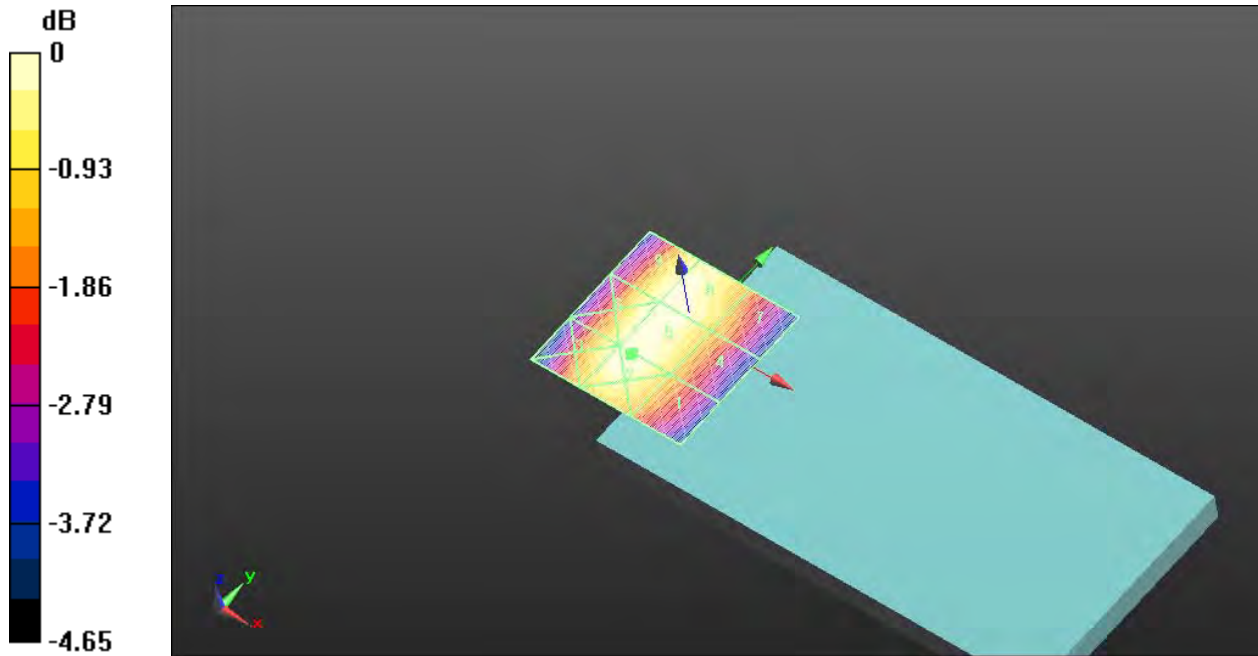
Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**


Total = 37.61 dBV/m

E Category: M4

Location: -4, -19.5, 8.7 mm



0 dB = 75.92 V/m = 37.61 dBV/m

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Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 1900\_slider open**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 1900; Frequency: 1850.2 MHz, Frequency: 1880 MHz,  
Frequency: 1909.8 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM 1900 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Low\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 34.07 V/m; Power Drift = -0.03 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 33.64 dBV/m

**Emission category: M3**

MIF scaled E-field

Grid 1 <b>M3</b> <b>31.45 dBV/m</b>	Grid 2 <b>M3</b> <b>33.03 dBV/m</b>	Grid 3 <b>M3</b> <b>33.05 dBV/m</b>
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<b>Grid 4 M4</b> <b>29.93 dBV/m</b>	<b>Grid 5 M3</b> <b>33.53 dBV/m</b>	<b>Grid 6 M3</b> <b>33.57 dBV/m</b>
<b>Grid 7 M4</b> <b>28.83 dBV/m</b>	<b>Grid 8 M3</b> <b>33.61 dBV/m</b>	<b>Grid 9 M3</b> <b>33.64 dBV/m</b>

**Cursor:**

Total = 33.64 dBV/m  
E Category: M3  
Location: -10, 15, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Mid\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 34.08 V/m; Power Drift = -0.08 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 33.25 dBV/m

**Emission category: M3**

MIF scaled E-field

<b>Grid 1 M3</b> <b>31.83 dBV/m</b>	<b>Grid 2 M3</b> <b>33.41 dBV/m</b>	<b>Grid 3 M3</b> <b>33.36 dBV/m</b>
<b>Grid 4 M4</b> <b>29.93 dBV/m</b>	<b>Grid 5 M3</b> <b>33.25 dBV/m</b>	<b>Grid 6 M3</b> <b>33.29 dBV/m</b>
<b>Grid 7 M4</b> <b>28.61 dBV/m</b>	<b>Grid 8 M3</b> <b>33.2 dBV/m</b>	<b>Grid 9 M3</b> <b>33.24 dBV/m</b>

**Cursor:**

Total = 33.41 dBV/m  
E Category: M3  
Location: -6.5, -25, 8.7 mm

**Device E-Field GSM 1900 measurement with ER probe\_slider open/E Scan -**

**ER3D - 2011: 15 mm from Probe Center to the Device\_High\_Chan/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 29.78 V/m; Power Drift = 0.10 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 33.35 dBV/m

**Emission category: M3**

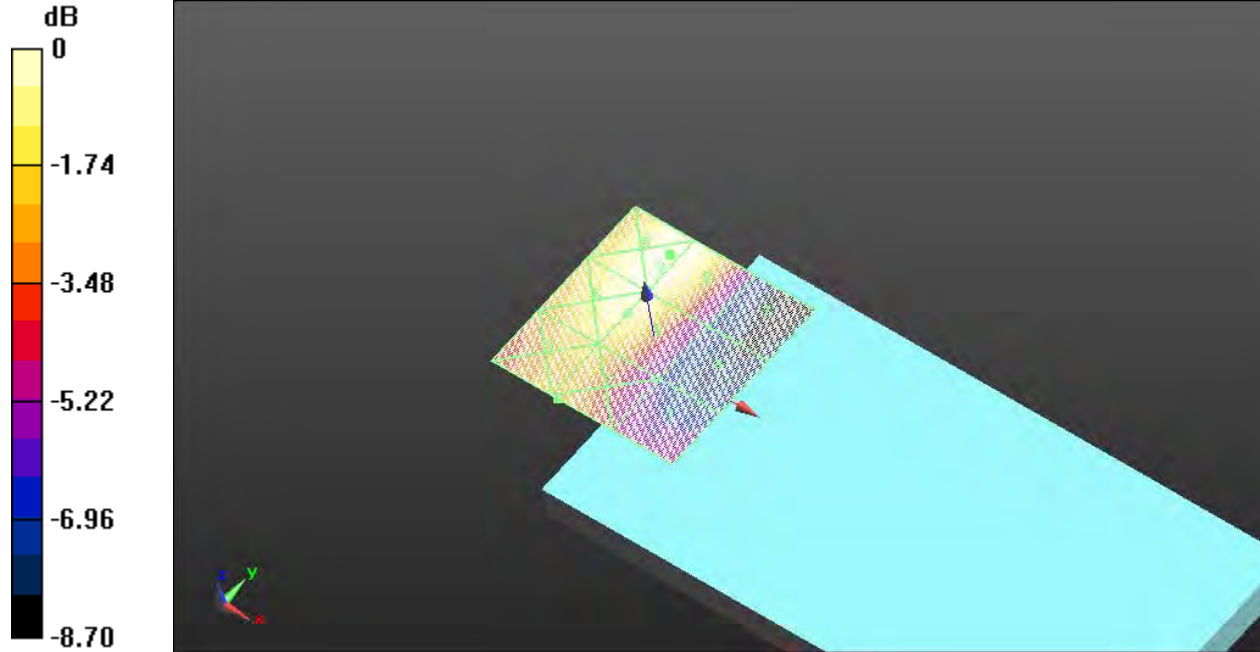
MIF scaled E-field

<b>Grid 1 M4</b> <b>29.9 dBV/m</b>	<b>Grid 2 M3</b> <b>32.1 dBV/m</b>	<b>Grid 3 M3</b> <b>32.22 dBV/m</b>
<b>Grid 4 M4</b> <b>28.15 dBV/m</b>	<b>Grid 5 M3</b> <b>33.12 dBV/m</b>	<b>Grid 6 M3</b> <b>33.21 dBV/m</b>
<b>Grid 7 M4</b> <b>28.11 dBV/m</b>	<b>Grid 8 M3</b> <b>33.35 dBV/m</b>	<b>Grid 9 M3</b> <b>33.4 dBV/m</b>


Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**

Total = 33.40 dBV/m  
E Category: M3  
Location: -10.5, 19, 8.7 mm



0 dB = 48.11 V/m = 33.64 dBV/m

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Date/Time: 8/31/2015 4:06:50 PM

Test Laboratory: BlackBerry RTS

**HAC RF\_E-Field\_GSM 1900\_slider open\_telecoil center**

**DUT: BlackBerry Smartphone; Type: Sample ; Serial: 1161504665**

Communication System: UID 0, GSM 1900; Frequency: 1850.2 MHz  
Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>  
Phantom section: RF Section  
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2011)

DASY Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/19/2015;
- Sensor-Surface: (Fix Surface), z = 8.7
- Electronics: DAE4 Sn881; Calibrated: 1/13/2015
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

**Device E-Field GSM 1900 measurement with ER probe\_slider open/E Scan - ER3D - 2011: 15 mm from Probe Center to the Device\_Low\_Chan\_Telecoil center/Hearing Aid Compatibility Test (101x101x1):** Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm  
Reference Value = 32.95 V/m; Power Drift = 0.09 dB  
Applied MIF = 3.44 dB  
RF audio interference level = 33.38 dBV/m

**Emission category: M3**

MIF scaled E-field

<b>Grid 1 M3</b> <b>31.92 dBV/m</b>	<b>Grid 2 M3</b> <b>32.91 dBV/m</b>	<b>Grid 3 M3</b> <b>32.76 dBV/m</b>
<b>Grid 4 M3</b> <b>30.87 dBV/m</b>	<b>Grid 5 M3</b> <b>33.15 dBV/m</b>	<b>Grid 6 M3</b> <b>33.16 dBV/m</b>



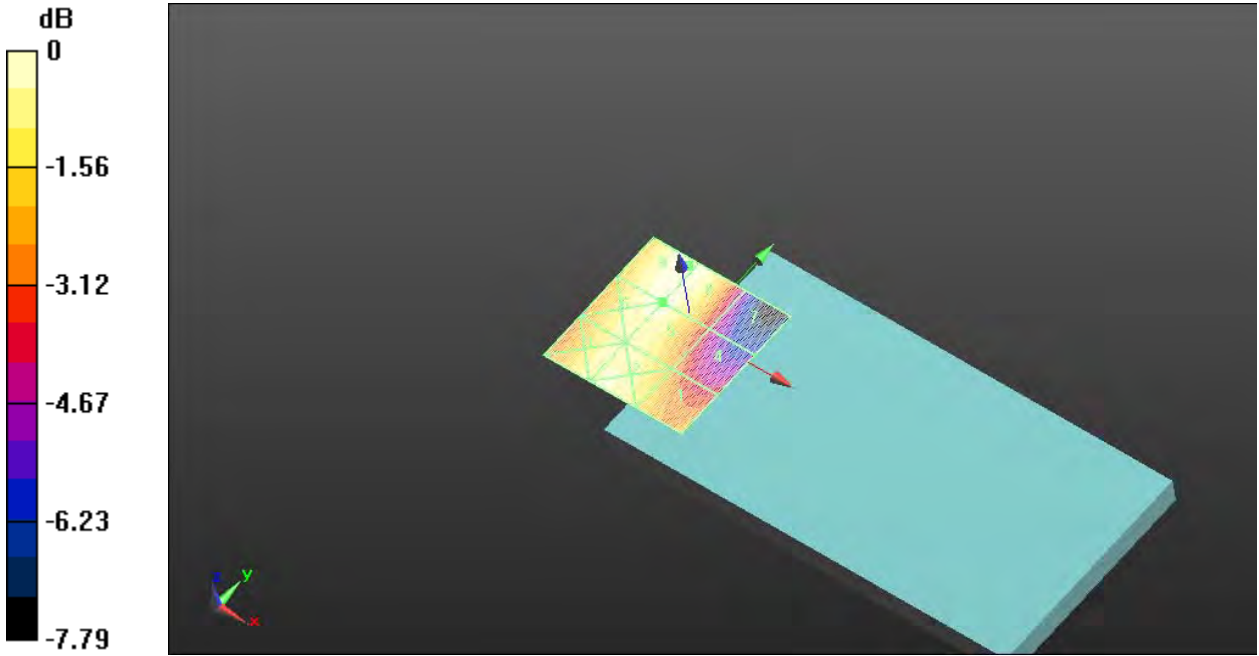
Author Data <b>Daoud Attayi</b>	Dates of Test <b>August 31- Sep. 23, 2015</b>	Report No <b>RTS-6066-1509-19</b>	FCC ID <b>L6ARHK210LW</b>
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<b>Grid 7 M4</b> <b>29.49 dBV/m</b>	<b>Grid 8 M3</b> <b>33.34 dBV/m</b>	<b>Grid 9 M3</b> <b>33.38 dBV/m</b>
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Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

**Cursor:**

Total = 33.38 dBV/m  
 E Category: M3  
 Location: -10.5, 12.5, 8.7 mm



0 dB = 46.65 V/m = 33.38 dBV/m