



August 5, 2008

Supplement to EMC test report (Exhibit 6A2) for Motorola portable cellular phone (FCC ID: IHDT56JV2)

Reference:

Correspondence Reference Number: IHD80614

Confirmation Number: 807110614-16

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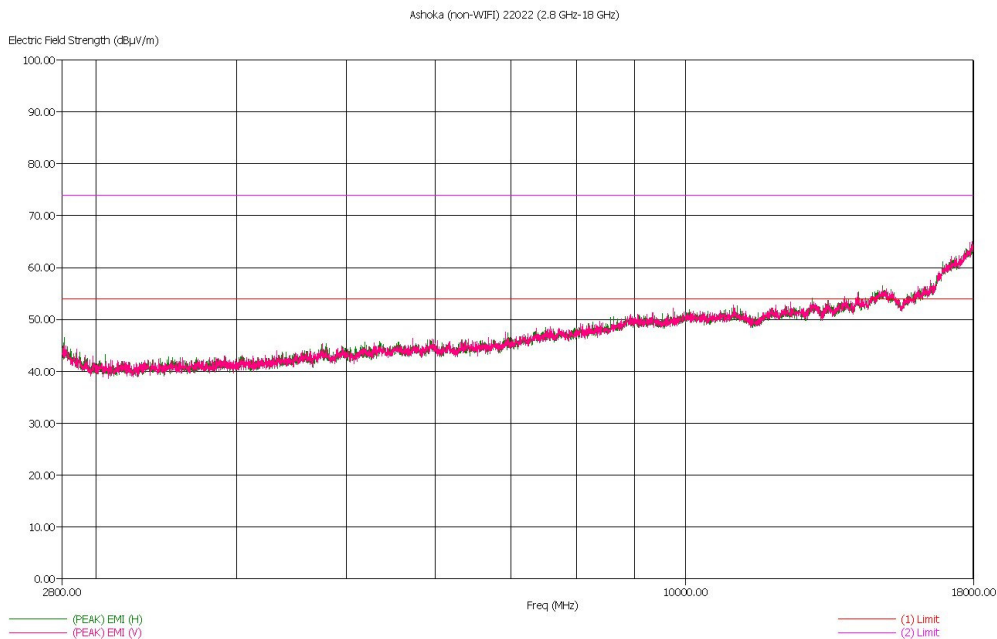
## Noise floor

Taken from test report:

```

Title: FCC 15.247(c)
File: Ashoka 22022 (5.31)(ESU) FCC15.247 BT2400 Tch-low_Y 2008-05-27 -3-18.set
Operator: ADR_AAL_RMC_TLI_hkr001
EUT Type: Ashoka (non-WIFI), FCC ID: IHDT56JV2.
EUT Condition: IMEI: 353976020002618. Board Rev: P2.0
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT channel 0 (2402 MHz) up/do in test mode. Orientation Y=H
EMCO 3115 antenna (3GHz - 18GHz).
    
```

27-05-2008 11:10:35  
Sequence: Preliminary Scan



### 3-18 GHz High Channel Dual Polarization Y

The detector used in our pre-scan tests is the peak detector. In the range from 3-18 GHz we cross the average limit line (54 dBµV/m) from approximately the 16.5 GHz to the 18 GHz range.

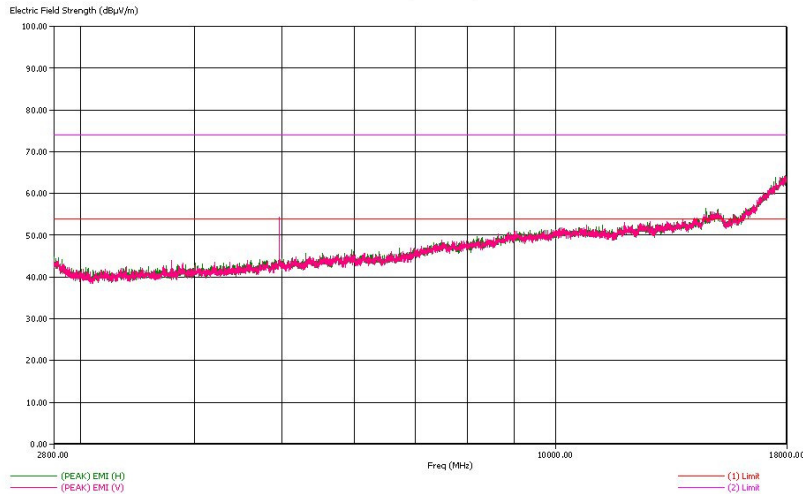
As we do not cross the peak detector limit line applied as per FCC part 15.35(b) shown at 74 dBµV/m, we still have margin to detect any emissions that may occur in the particular ranges. This can be seen from our chamber validation when we apply a signal generator as EUT in the chamber.

Obtained from other products we have the following graphs:



Title: FCC 15.247(c)  
 File: Burns 22103 (5.31)(ESIB) FCC15.247 BT2400 Tch-hgh\_Z 2008-06-26 - 3-18.set  
 Operator: ADR AAL EMC TL1 usv001  
 EUT Type: Burns FCC ID: IHDP56JP1 ESN: 02DB627B  
 EUT Condition: Board Rev: P2, Closed  
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.  
 BT ch: 7B (2480 MHz) up/do in test mode. Orientation Z=H/V  
 EMCO 3115 antenna (3GHz - 18GHz). Peak detector used.

27-06-2008 10:48:05  
 Sequence: Preliminary Scan



Title: FCC 15.247(c)  
 File: Burns 22103 (5.31)(ESIB) FCC15.247 BT2400 Tch-hgh\_Z 2008-06-26 - 3-18 -AV.set  
 Operator: ADR AAL EMC TL1 usv001  
 EUT Type: Burns FCC ID: IHDP56JP1 ESN: 02DB627B  
 EUT Condition: Board Rev: P2, Closed  
 Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.  
 BT ch: 7B (2480 MHz) up/do in test mode. Orientation Z=H/V  
 EMCO 3115 antenna (3GHz - 18GHz). AV detector used.

27-06-2008 11:05:11  
 Sequence: Final Measurements

Burns 22103, hgh-Z - Table

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dBµV/m)	(1) Limit (dBµV/m)	(AVG) Margin Lim1 (dB)	Tlbl Agl (deg)	Pol
4960.00	4960.11	43.22	54.00	-10.78	211.70	H
4960.00	4959.99	42.09	54.00	-11.91	360.00	V
18000.00	17998.50	51.71	54.00	-2.29	358.30	H

### 3-18 GHz High Channel Dual Polarization Z

The test above in the range from 3-18 GHz shows that for a final measurement using the average detector we still have 2.29 dB margins to the average limit line at 18 GHz.

#### Conclusion:

Even though the noise floor looks high in certain frequency ranges the level is measured using peak detector giving satisfied margin to the average emission requirement specified in FCC part 15.209.

We monitor the performance on a regular basis and we also execute update programs to improve performance for our measurements.

In the range from 3 GHz to 18 GHz we currently used our spare antenna as our preferred antenna is out for the yearly calibration cycle and the noise floor measured with this antenna is a little worse than measured with the preferred antenna, however still valid for FCC testing according to the limits specified in FCC part 15.209.