The Measurement of Conducted Spurious Emissions

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

1. LIMITS OF CONDUCTED SPURIOUS EMISSIONS EASUREMENT

Below 20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth, see Section 15.247(c)). Emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the limits specified in Section 15.209(a) (see Section 15.205(c)).

2. TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP	1093.4495.30	Dec. 19, 2004
HIGH PASS FILTER	WHK3.1/18G- 10SS	SN4	Jun. 12, 2004

NOTE:

3. TEST PROCEDURE

2.5GHz~13GHz:

The transmitter output was connected to the spectrum analyzer via a low lose cable and a high pass filter. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

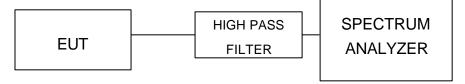
13GHz~25GHz:

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

^{1.} The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4. TEST SETUP

2.5GHz~13GHz:



13GHz~25GHz:



5. EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

TEST RESULTS – For 802.11b	
The spectrum plots are attached on the following 2 pages. the requirement in part 15.247(C),.15.205 and 15.209.	It shows compliance with

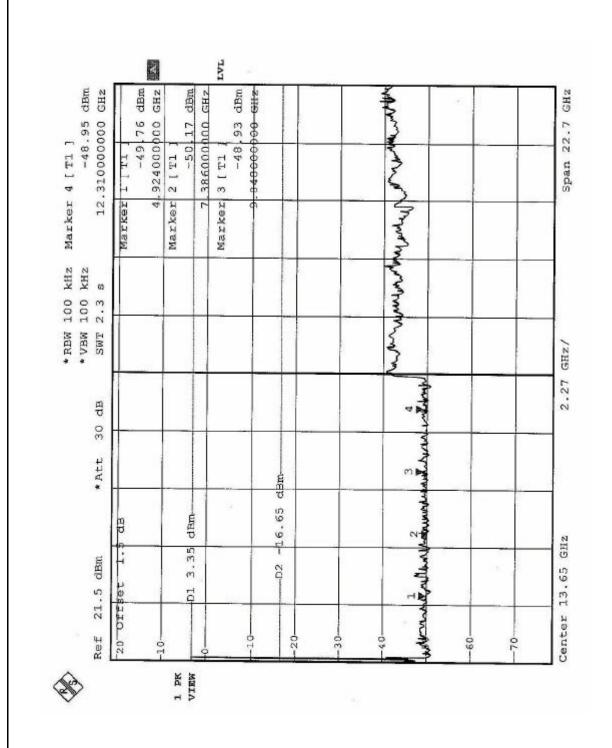
Ch1 LVL el, 4.82400000 GHz Marker 2 [T1] Stop 25 GHZ 12.060000000 GHz -50.88 dBm -49 93 dBm 236000000 GHZ -48 58 dBm Marker 4 [T1] Marker 3 [Tl *RBW 100 kHz *VBW 100 kHz 2.3 8 SWT 2.27 GHz/ 30 dB Ref 21.5 dBm Start 2.3 GHz 1 PK VIEW

Ch11 -49.66 dBm 4.924000000 GHz Marker 2 [T1] 12.310000000 GHz -49 20 dBm 7.386000000 GHZ Stop 25 GHz -49 65 dBm 9, 04000000 502 Marker 4 [T]] Marker 3 [T1 * RBW 100 kHz * VBW 100 kHz SWT 2.3 2.27 GHz/ 30 dB -11.09 dBm Ref 21.5 dBm Start 2.3 GHz 1 PK VIEW

TEST RESULTS – For 802.11g	
The spectrum plots are attached on the following 2 pages. the requirement in part 15.247(C),.15.205 and 15.209.	It shows compliance with

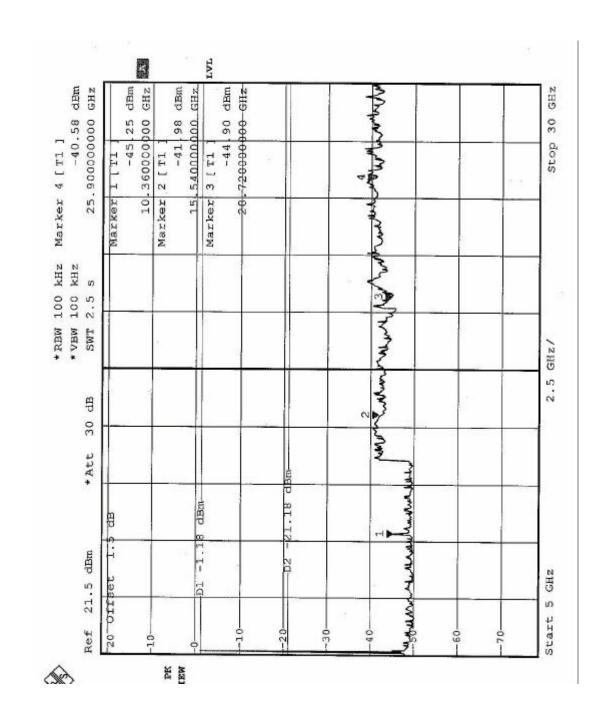
Ch1 IVL 4.824000b00 GHZ Stop 25 GHz 12.06000000 GHz -49,34 dBm -50 42 dBm Marker 4 [T1] Marker 2 [T1 Marker 3 [T1 and three productions through the * RBW 100 kHz * VBW 100 kHz SWT 2.3 S 2.27 GHz/ * Att -17.96 dBm dBm-2.04 Ref 21.5 dBm Start 2.3 GHz -20-1 PK VIEW





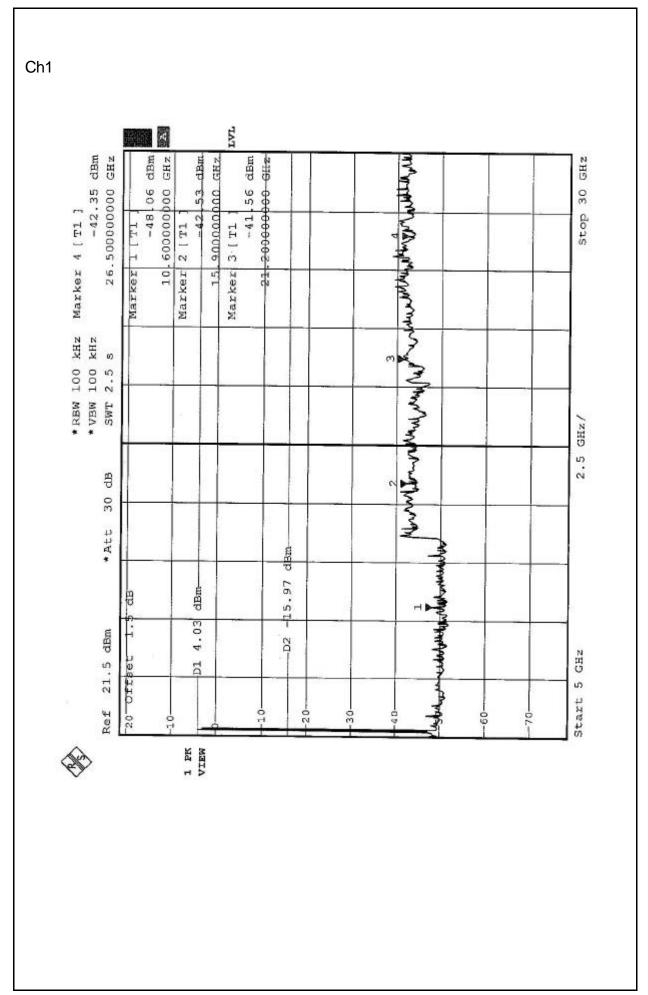
TEST RESULTS – For 802.11a Normal mode	
The spectrum plots are attached on the following 2 pages. the requirement in part 15.247(C),.15.205 and 15.209.	It shows compliance with

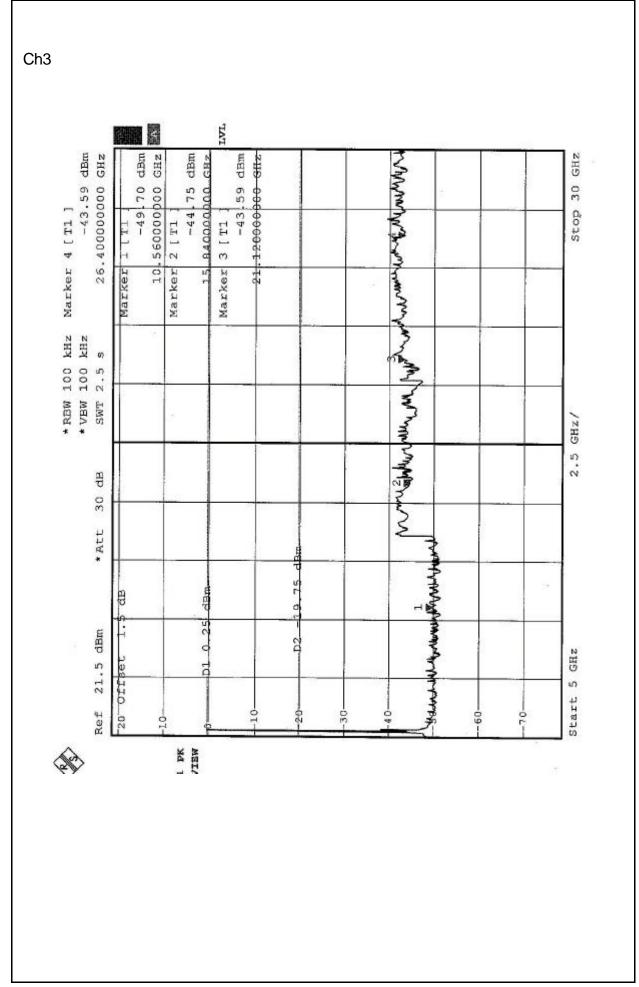




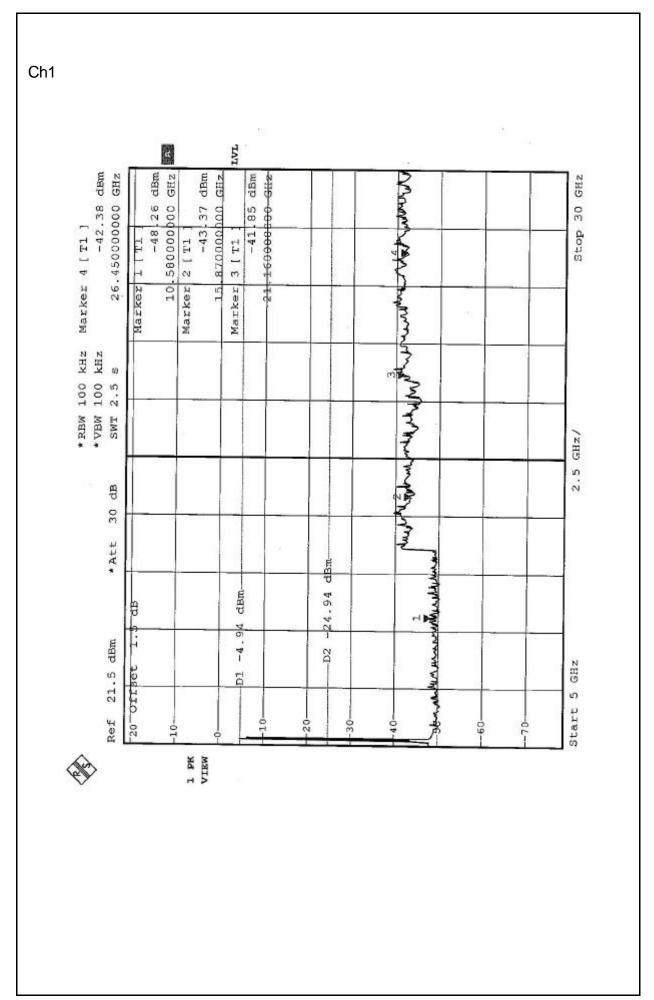
Ch8 IVL rd. -42.02 dBm 28.725000000 GHz Stop 30 GHz 11.490000000 GHz -41.35 dBm 22, 900000000 GHZ--42.24 dBm Marker 4 [T1] Marker 3 [T1 Marker 2 [Tl * RBW 100 KHZ * VBW 100 KHZ SWT 2.5 s 2.5 GHz/ 30 dB * Att -13.21 dBm 6.79 Ref 21.5 dBm -02 Start 5 GHz 1 PK VIEW

TEST RESULTS – For 802.11a Turbo mode (Dynamic)	
The spectrum plots are attached on the following 2 pages. the requirement in part 15.247(C),.15.205 and 15.209.	It shows compliance with





TEST RESULTS – For 802.11a Turbo mode (Static)	
The spectrum plots are attached on the following 2 pages. the requirement in part 15.247(C),.15.205 and 15.209.	It shows compliance with



Ch3 IM Stop 30 GHz 11. 6000000000 GHz -40.79 dBm 29.000000000 GHz 17 400000000 GHz -41.01 dBm 23, 2000000000 GHZ Marker 4 [Tl] Marker 2 [T1 Marker 3 [T1 * RBW 100 kHz * VBW 100 kHz SWT 2.5 2.5 GHz/ 30 dB * Att -14.46 dbm dBm-5.54 20 Offset 1. 21.5 dBm Start 5 GHz -10-1 PK VIEW