

The Measurement of Conducted Spurious Emissions

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

1. LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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, 2003

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss 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.

4. TEST SETUP

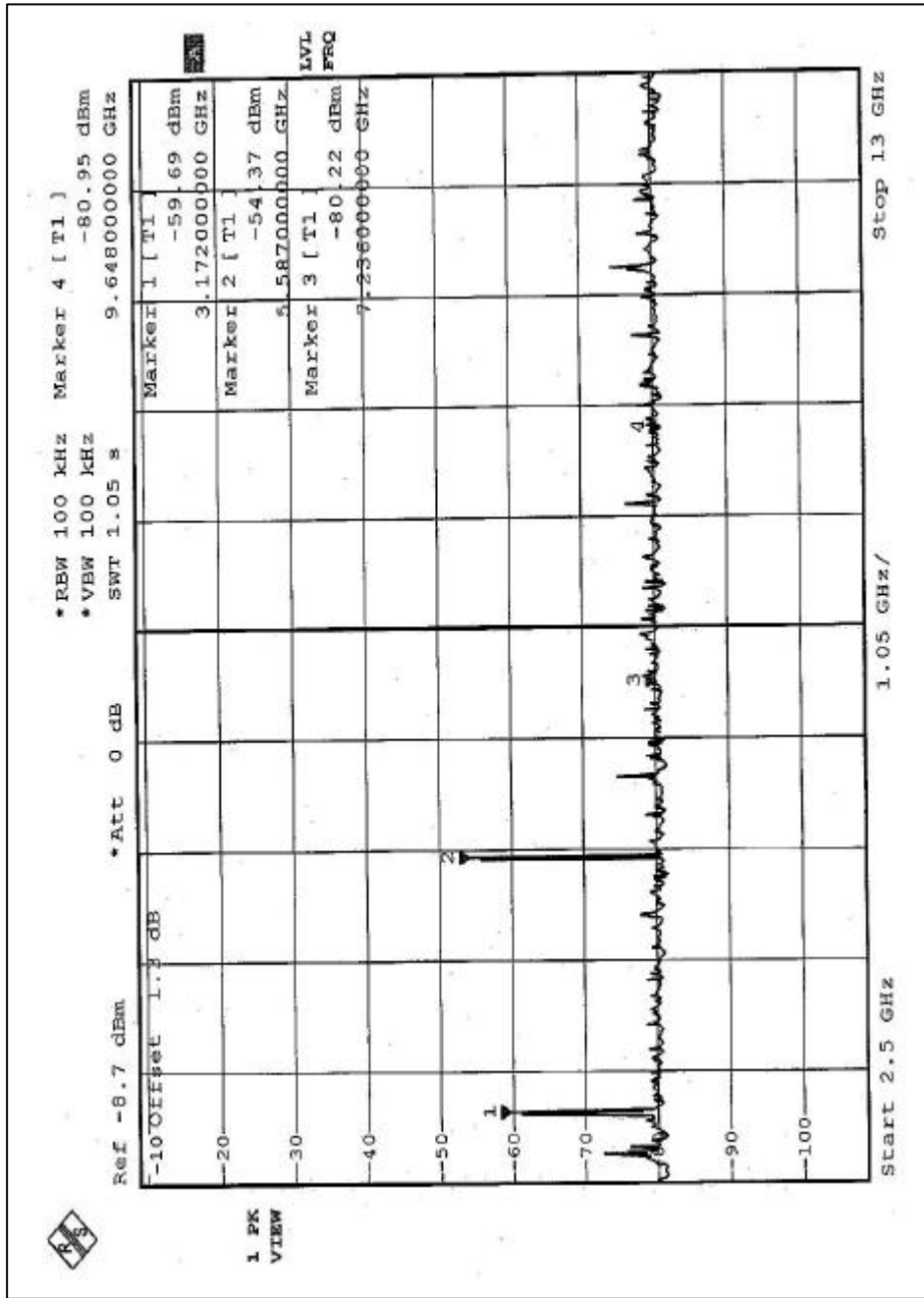


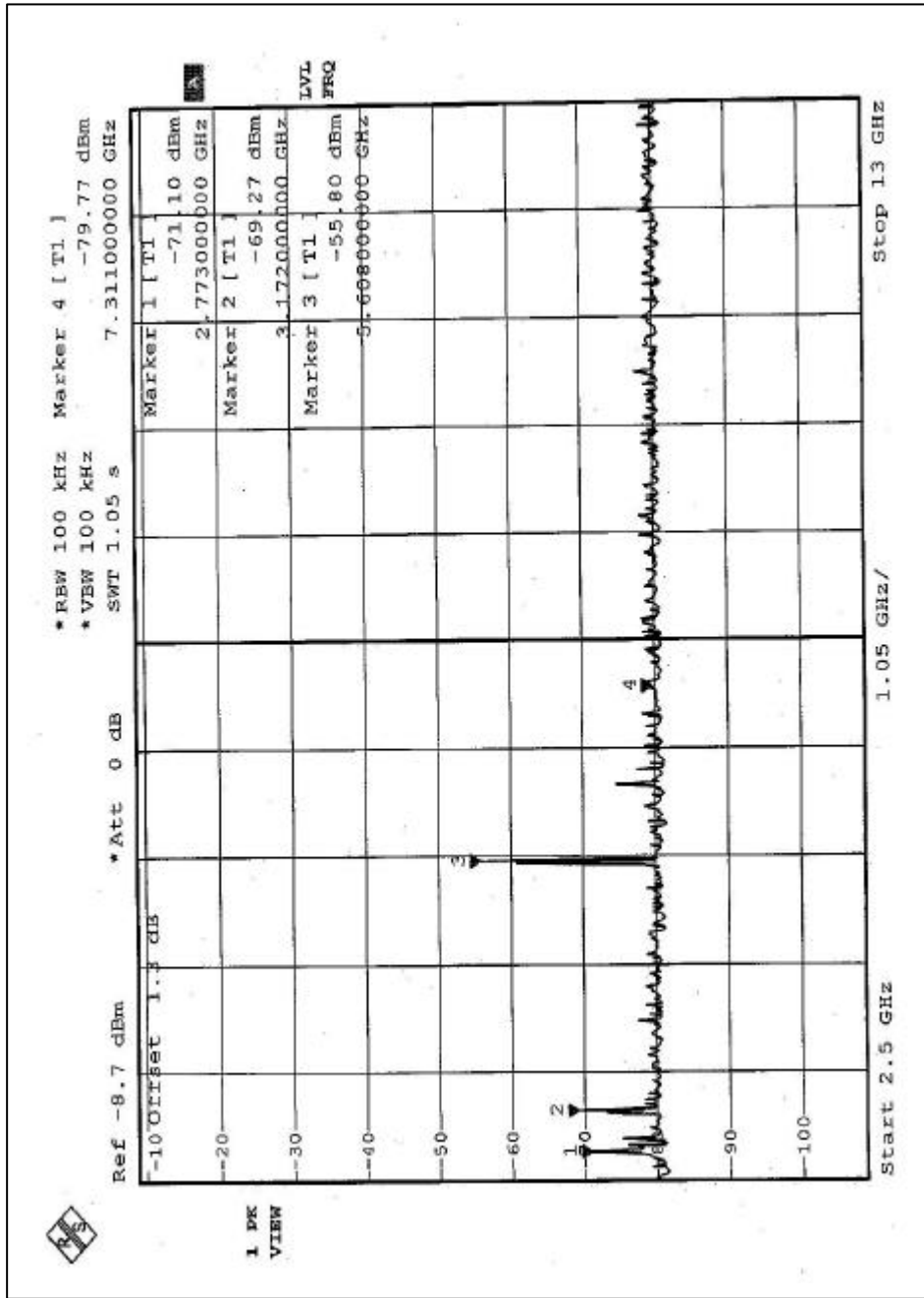
5. EUT OPERATING CONDITIONS

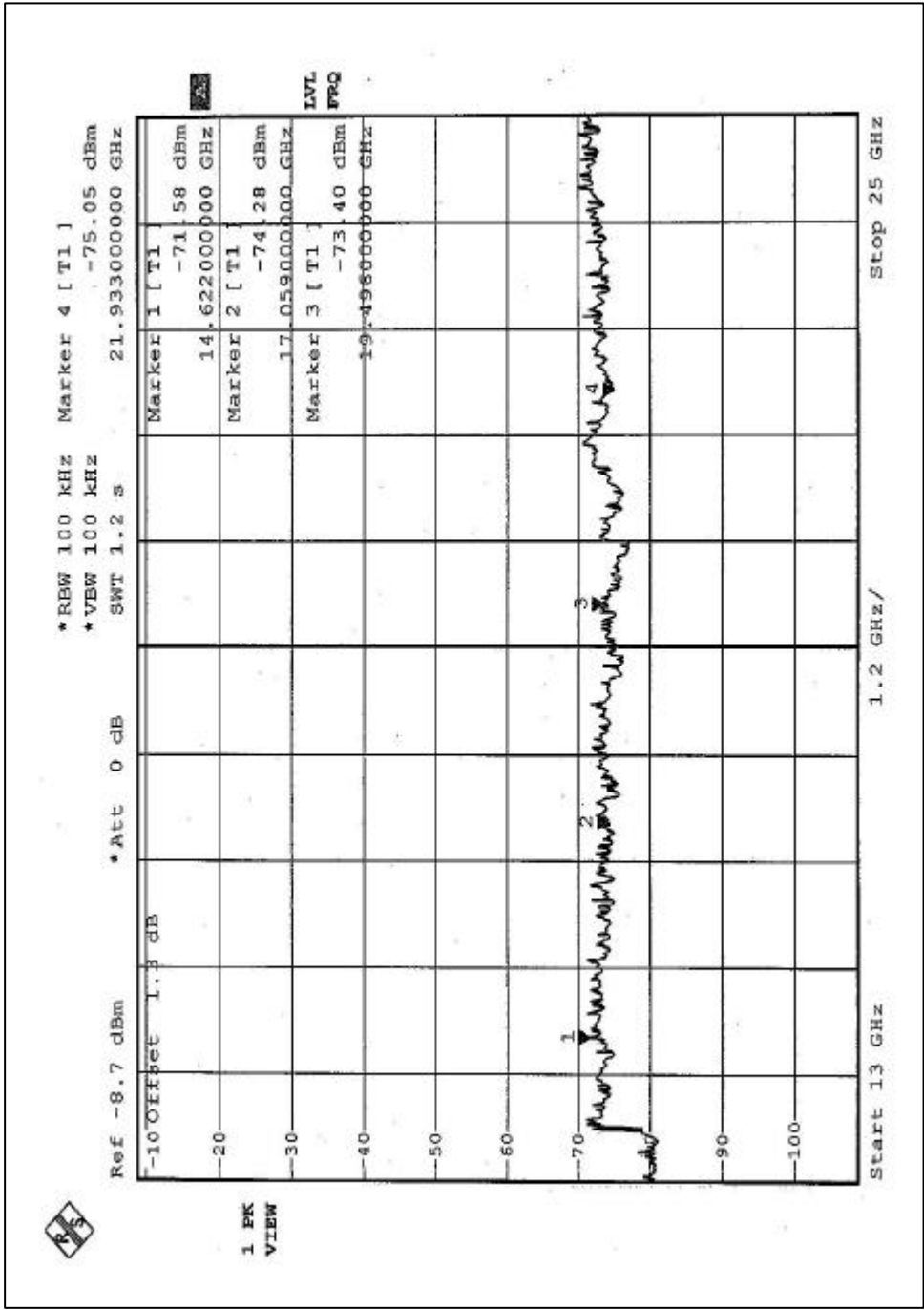
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

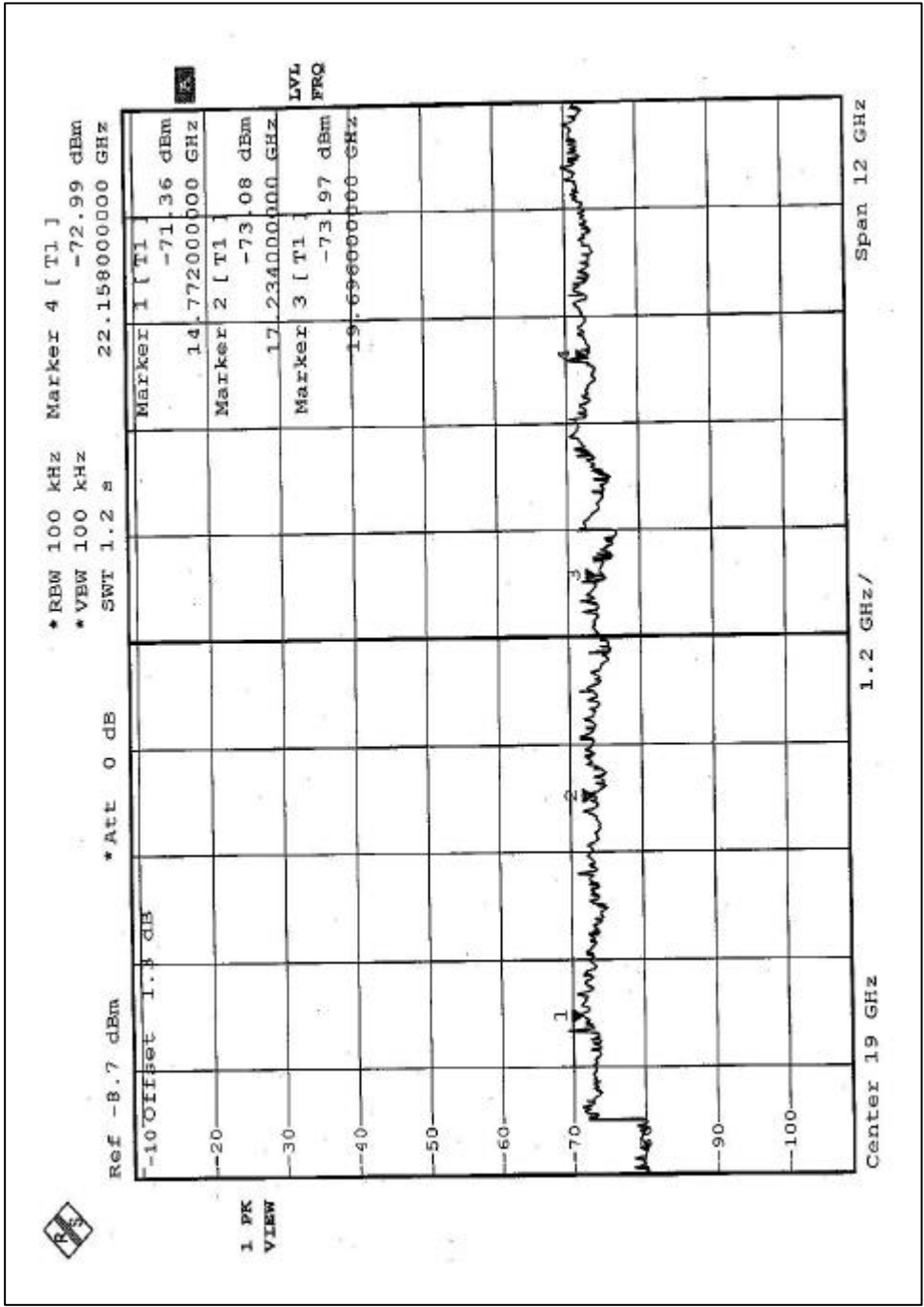
TEST RESULTS – For 802.11b

The spectrum plots are attached on the following 6 pages. It shows compliance with the requirement in part 15.247(C), 15.205 and 15.209.



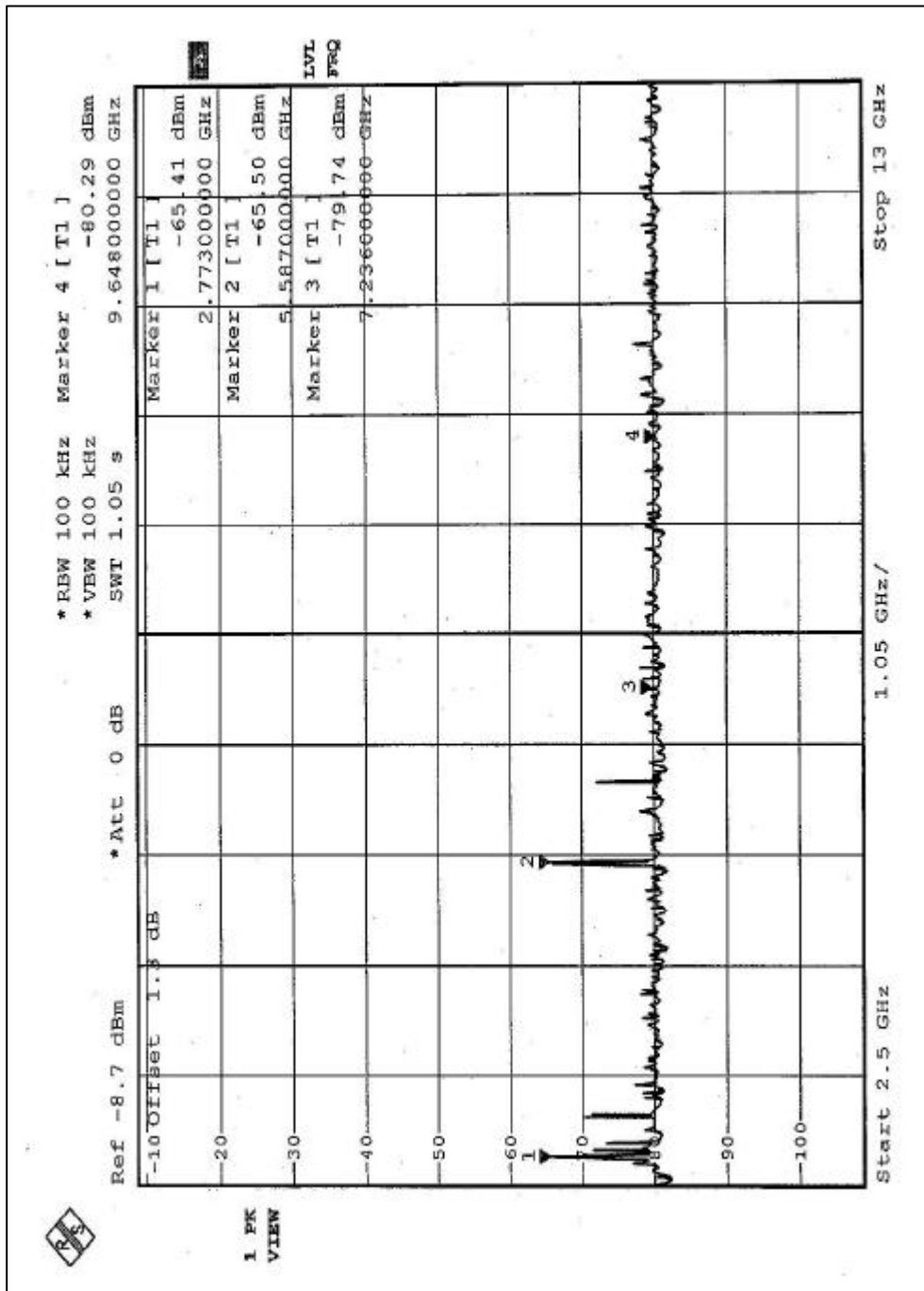


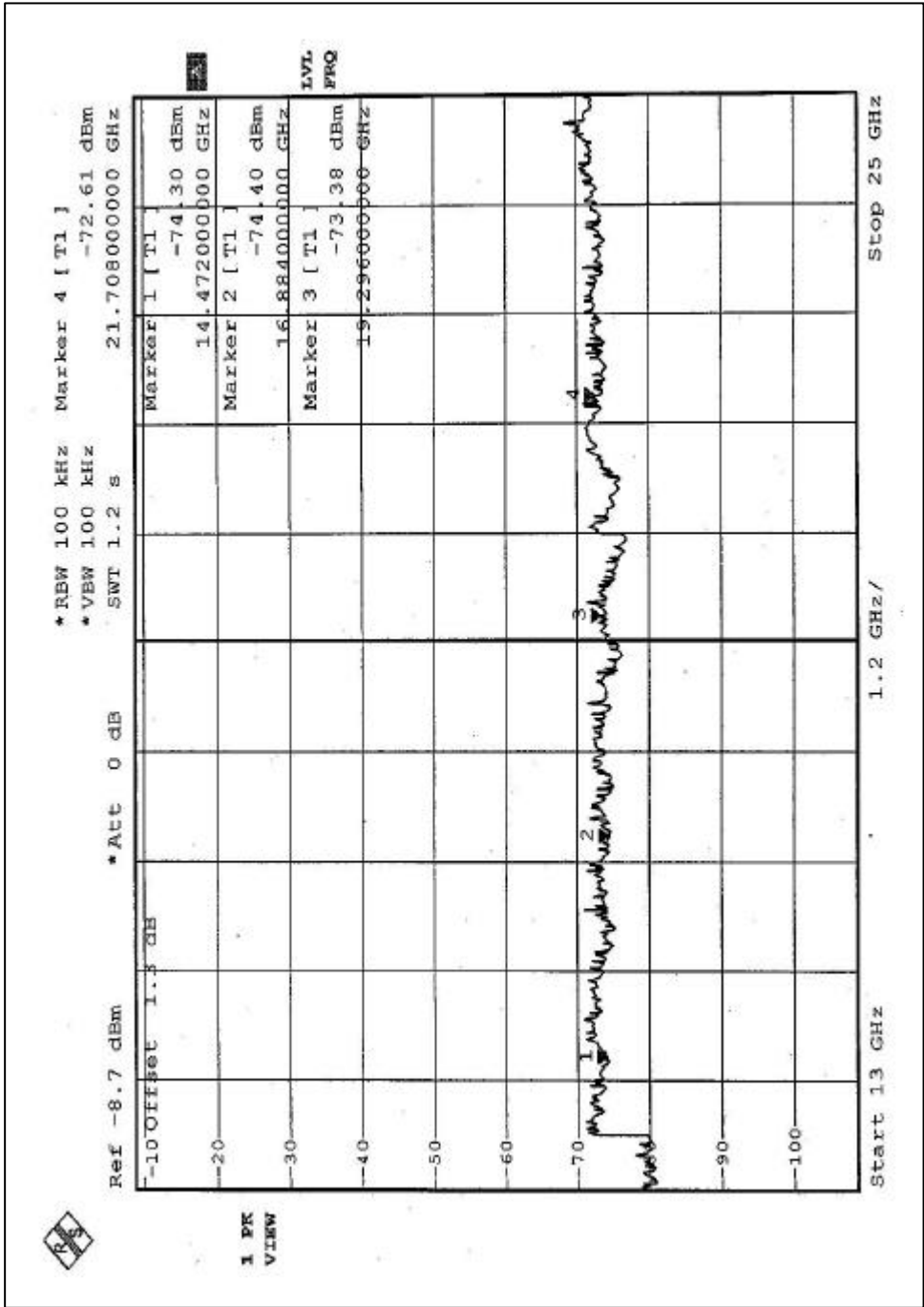


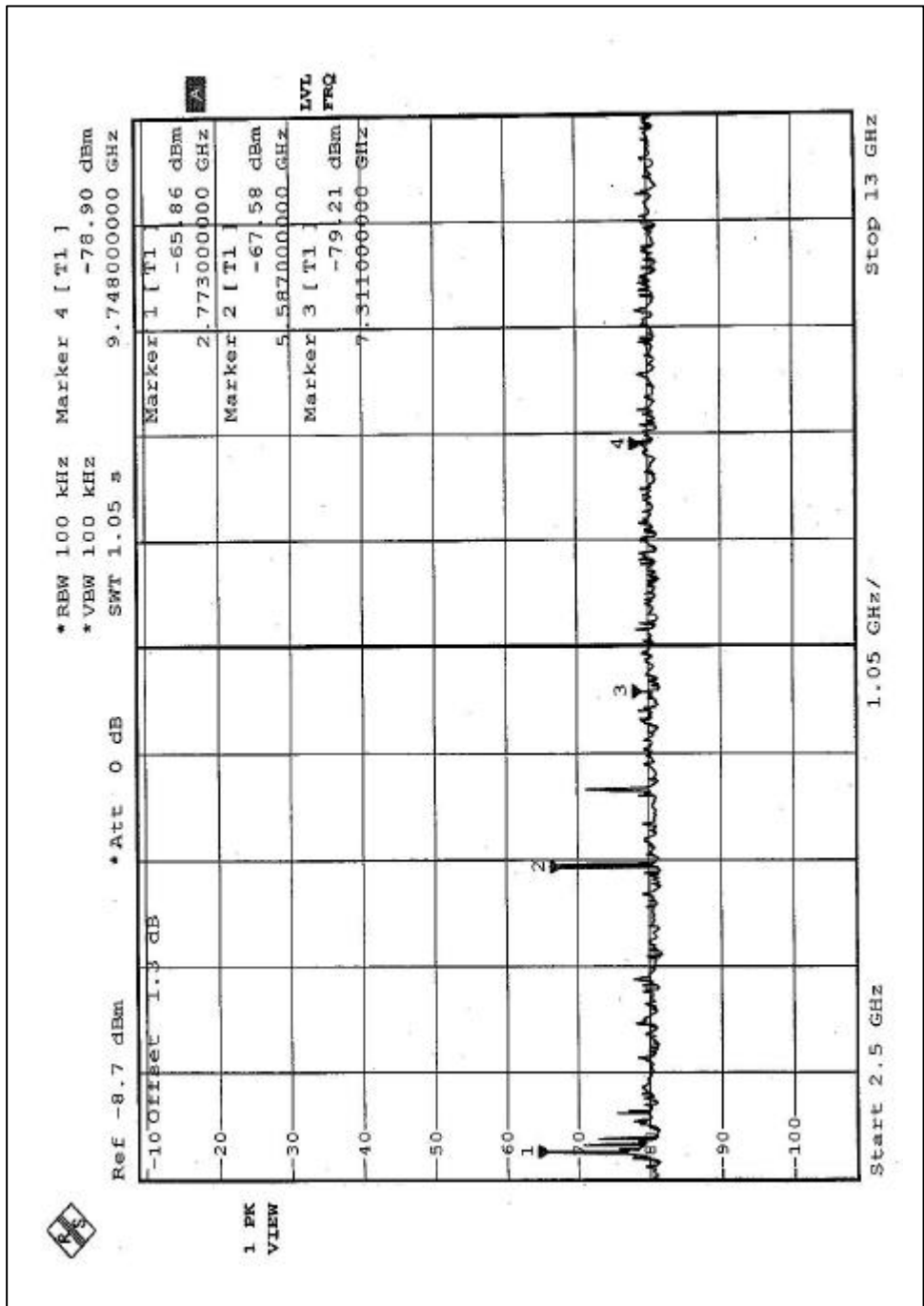


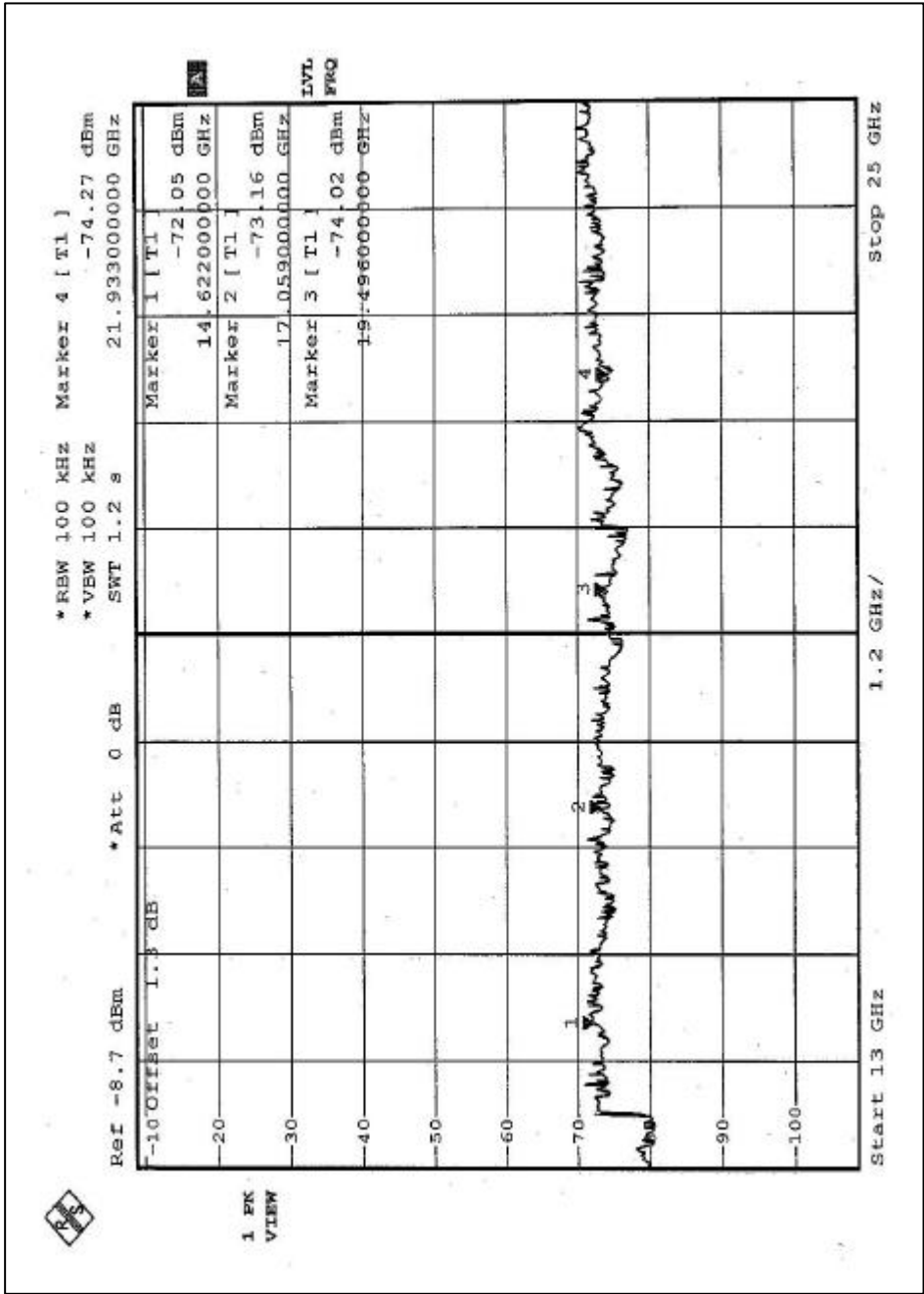
TEST RESULTS – For 802.11g

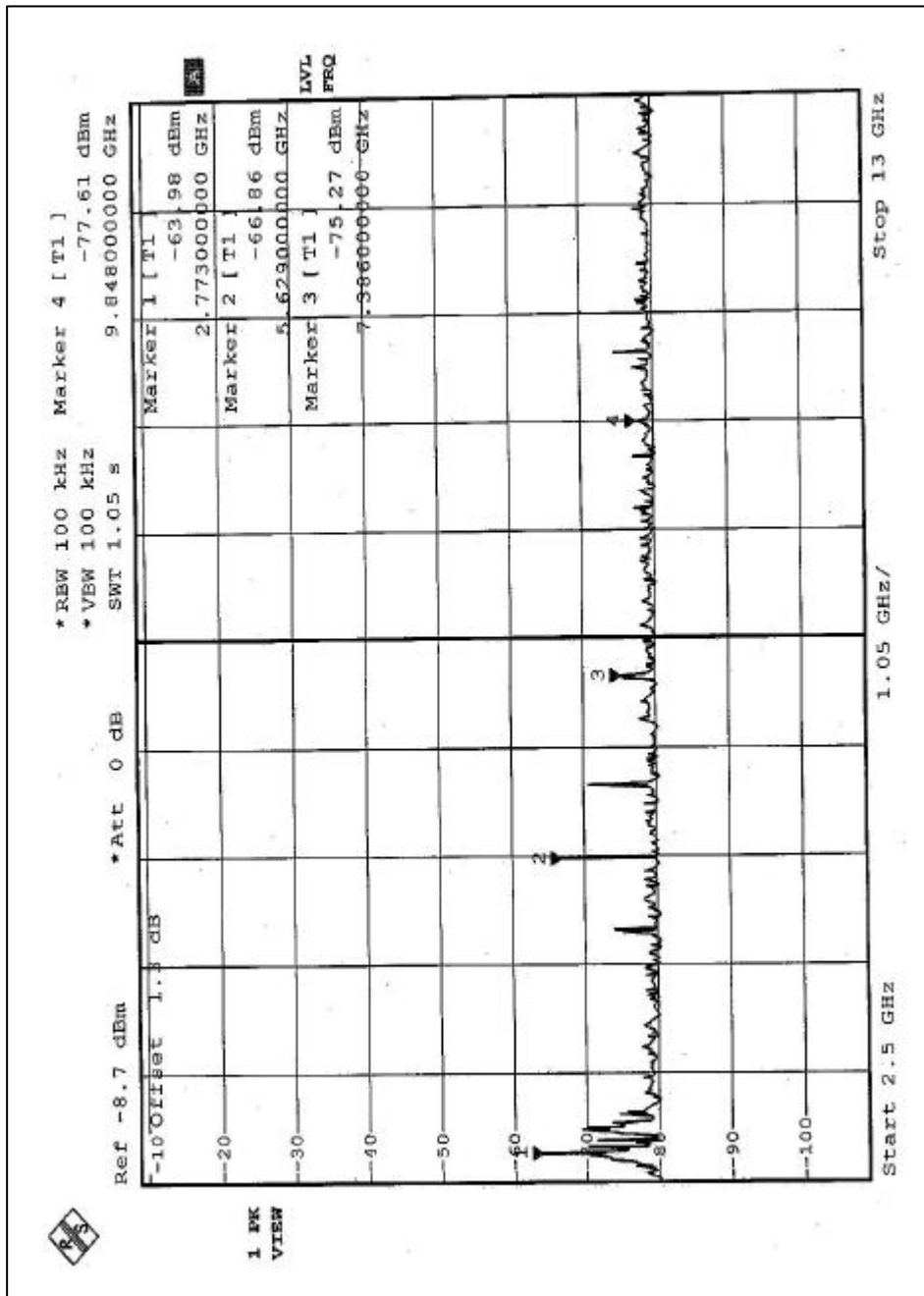
The spectrum plots are attached on the following 6 pages. It shows compliance with the requirement in part 15.247(C), 15.205 and 15.209.

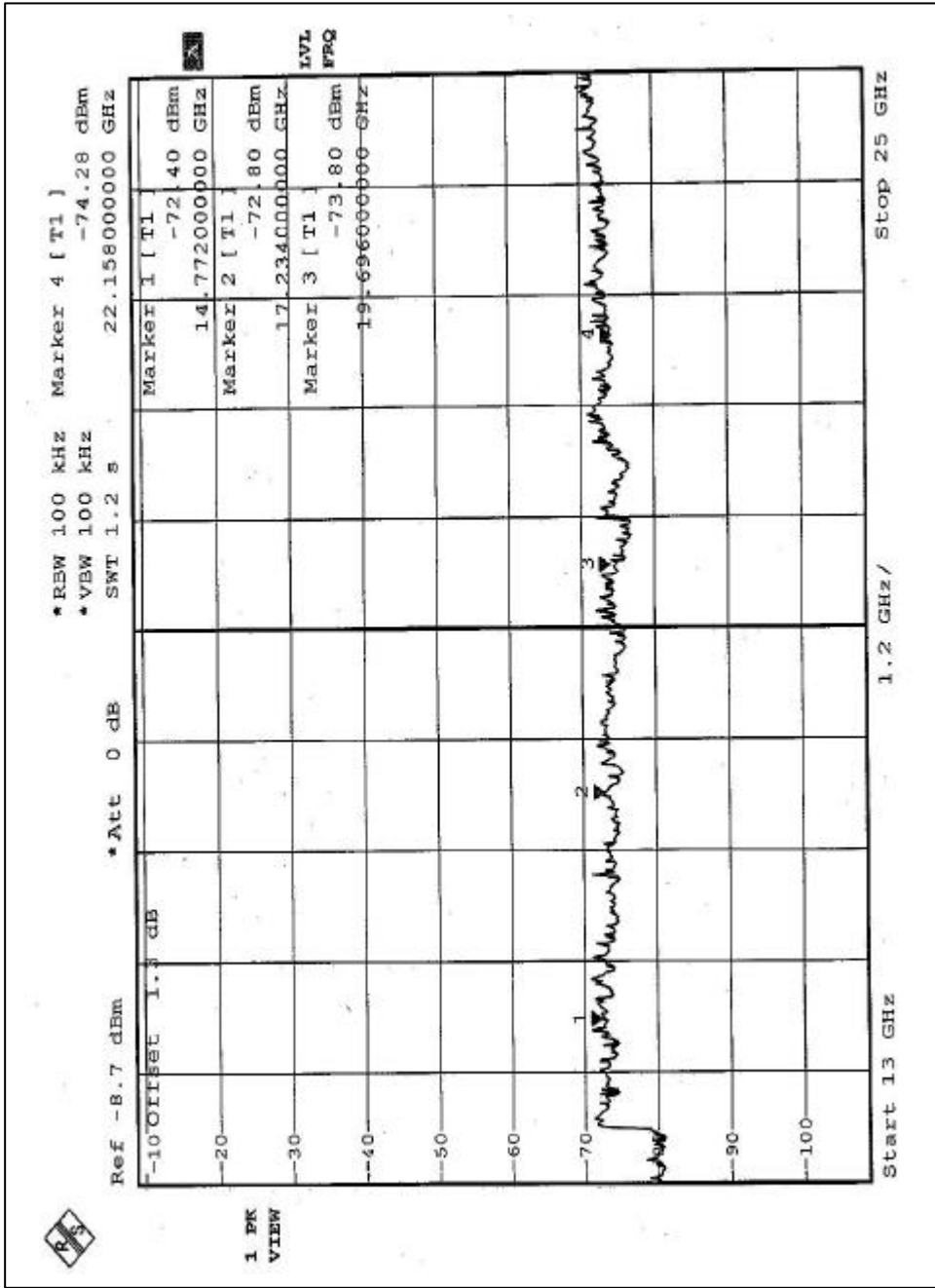








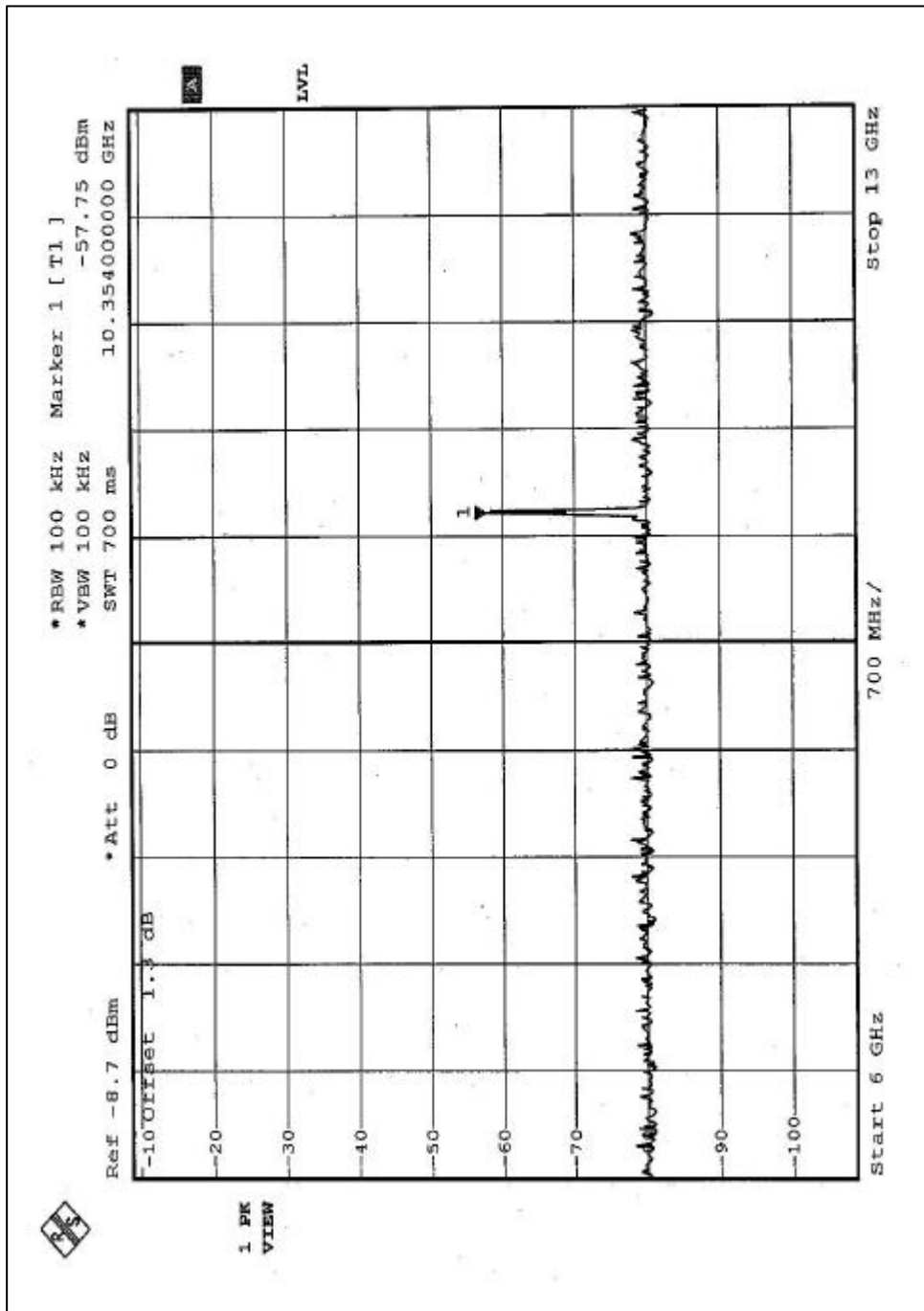


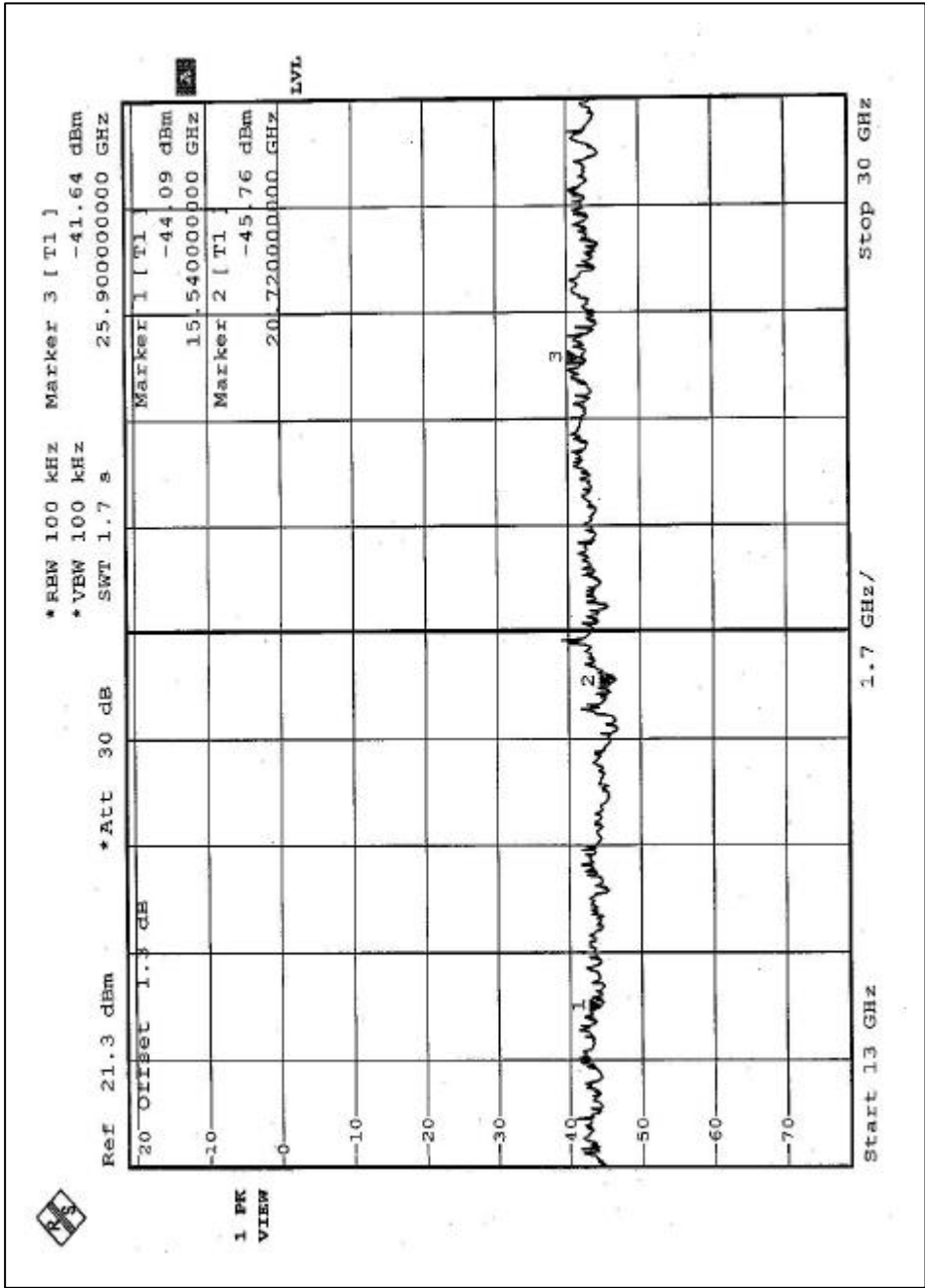


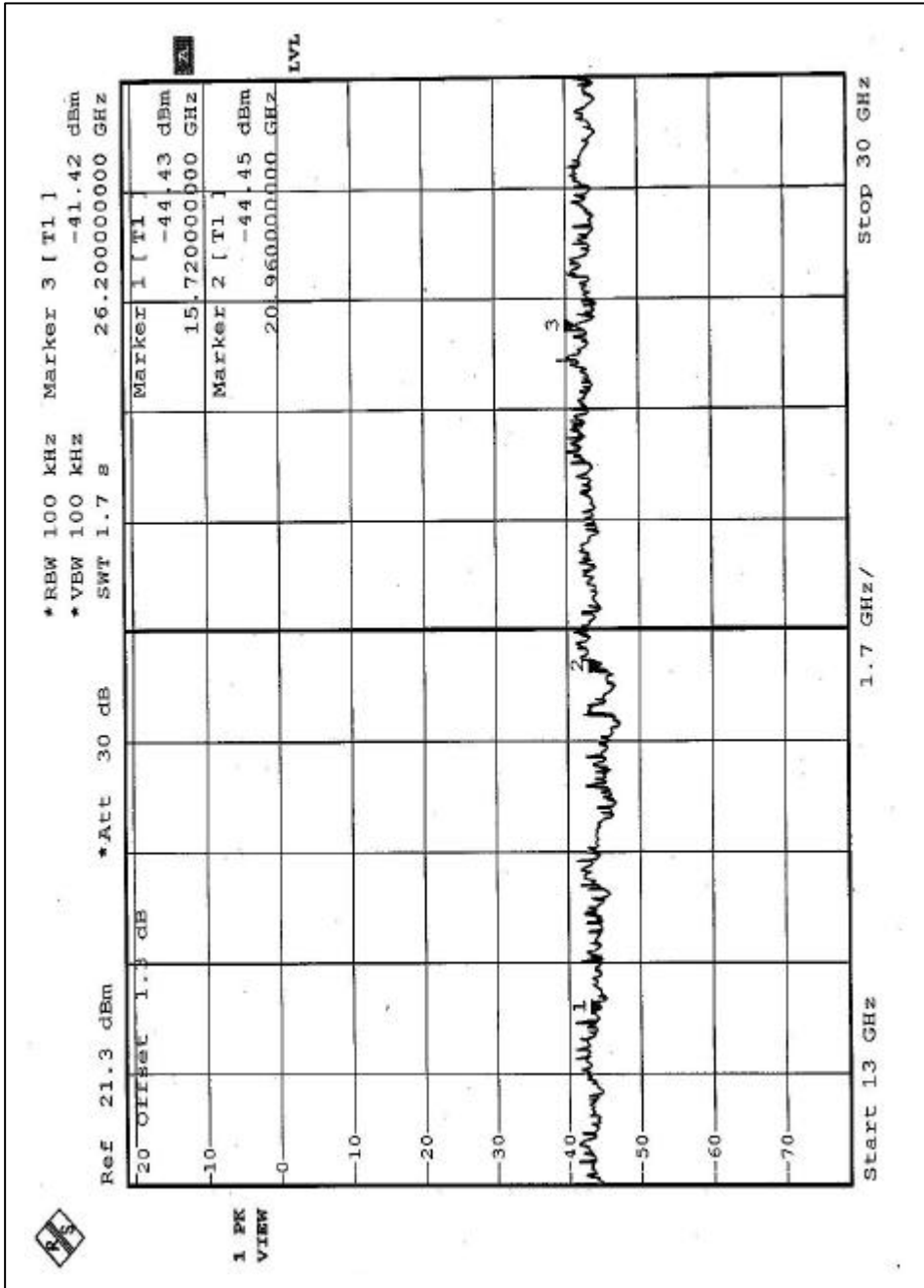
FOR FREQUENCY 5.15~5.35GHz

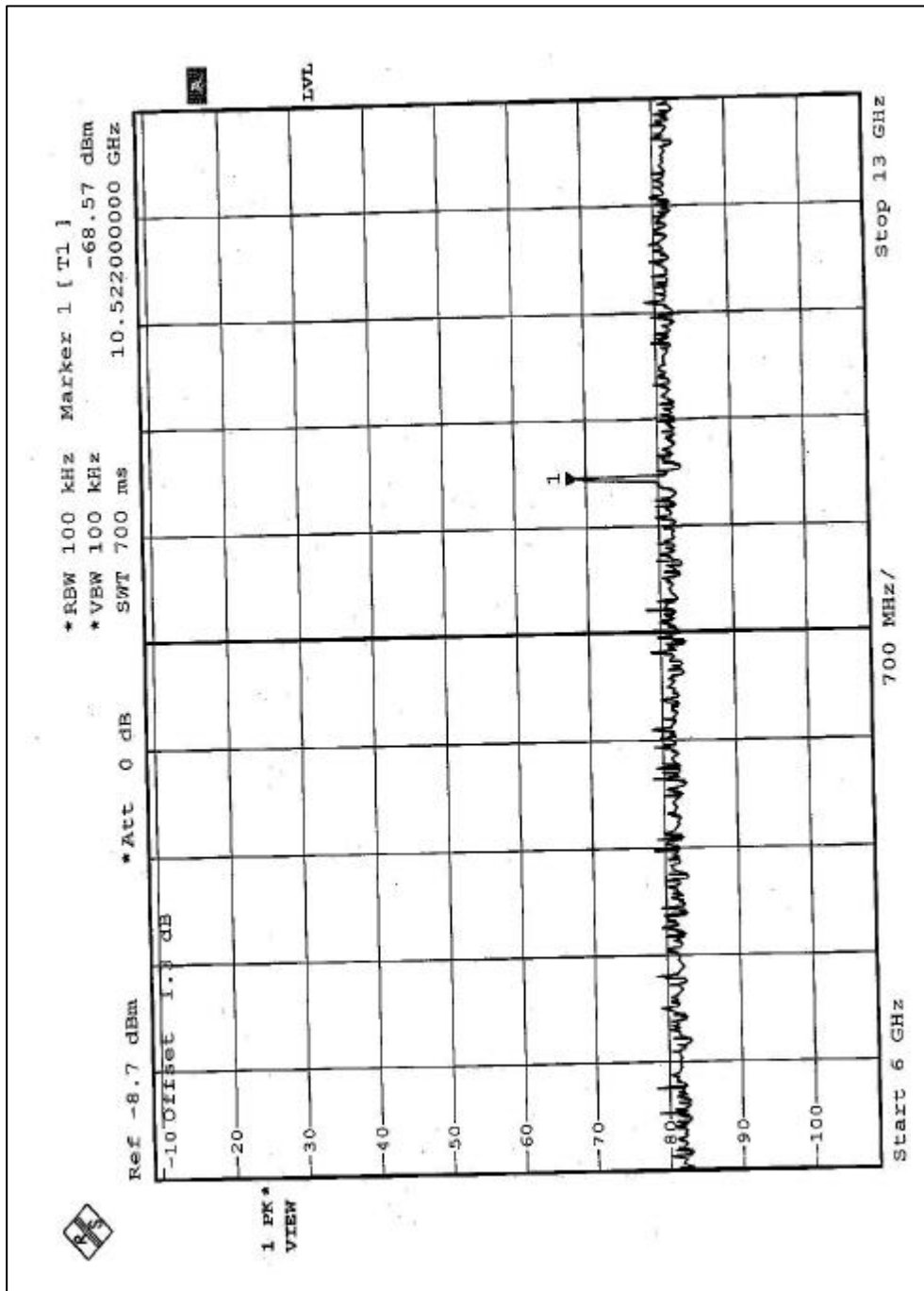
TEST RESULTS – For 802.11a, Normal mode

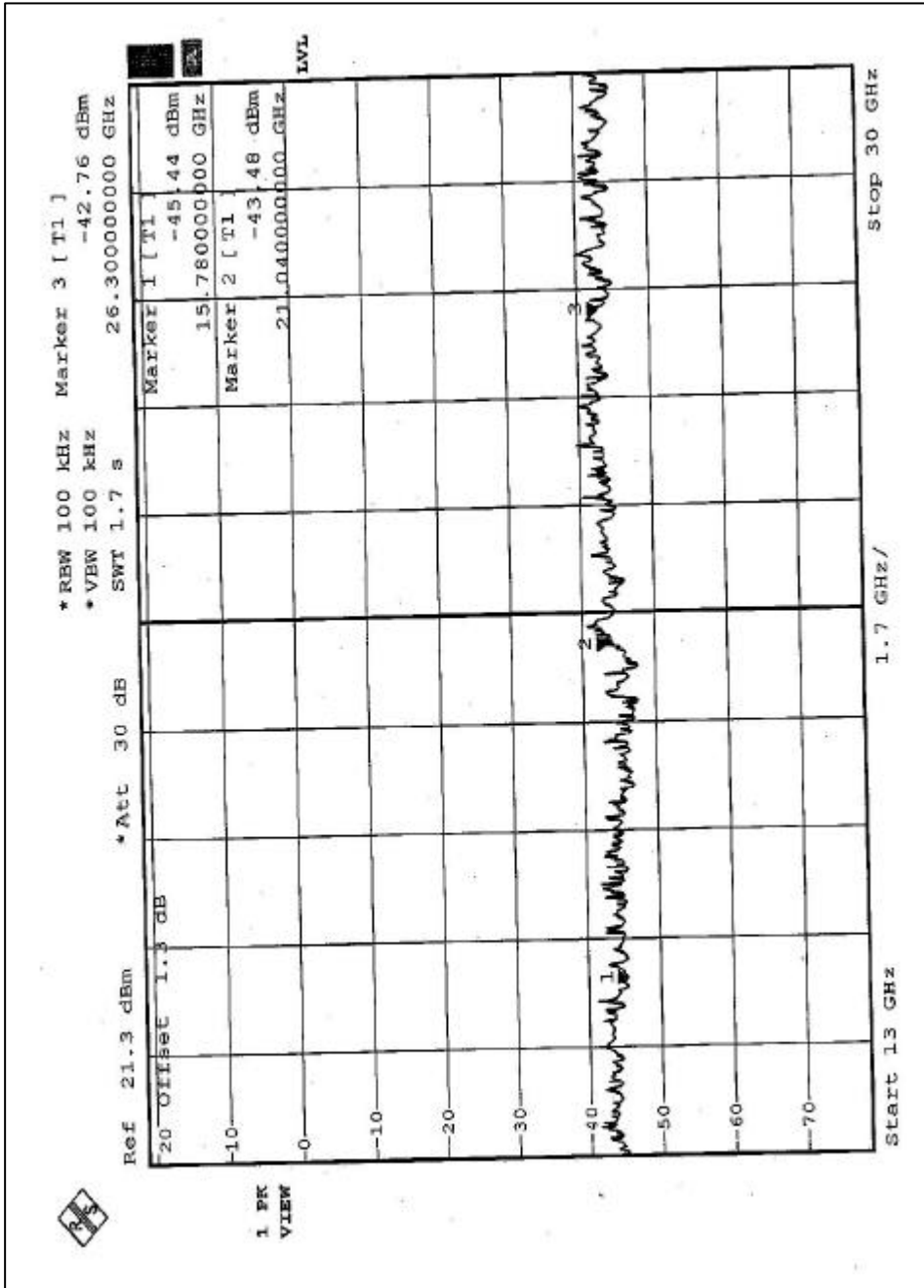
The spectrum plots are attached on the following 8 pages. It shows compliance with the requirement in part 15.407 (E), 15.205 and 15.209.

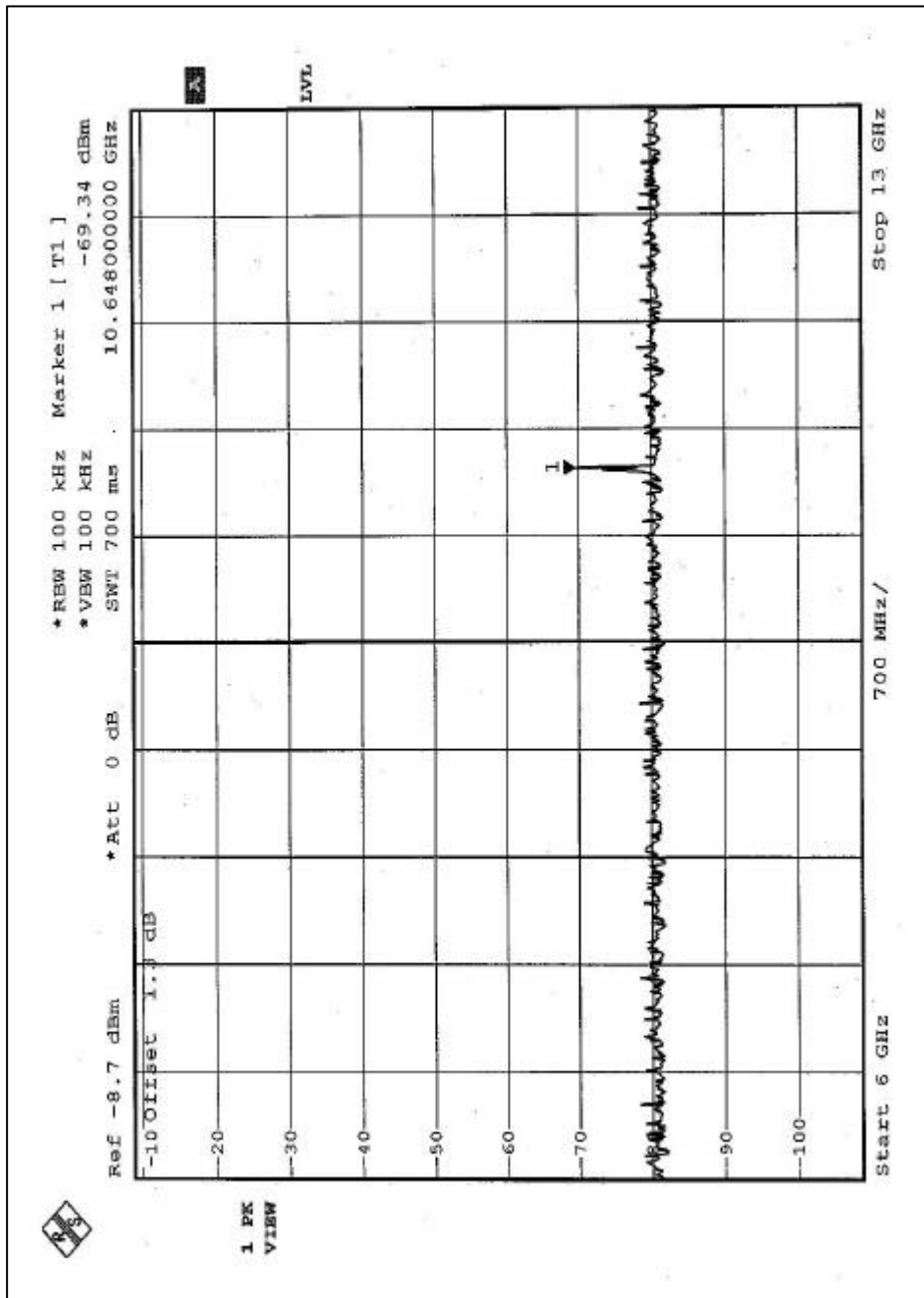


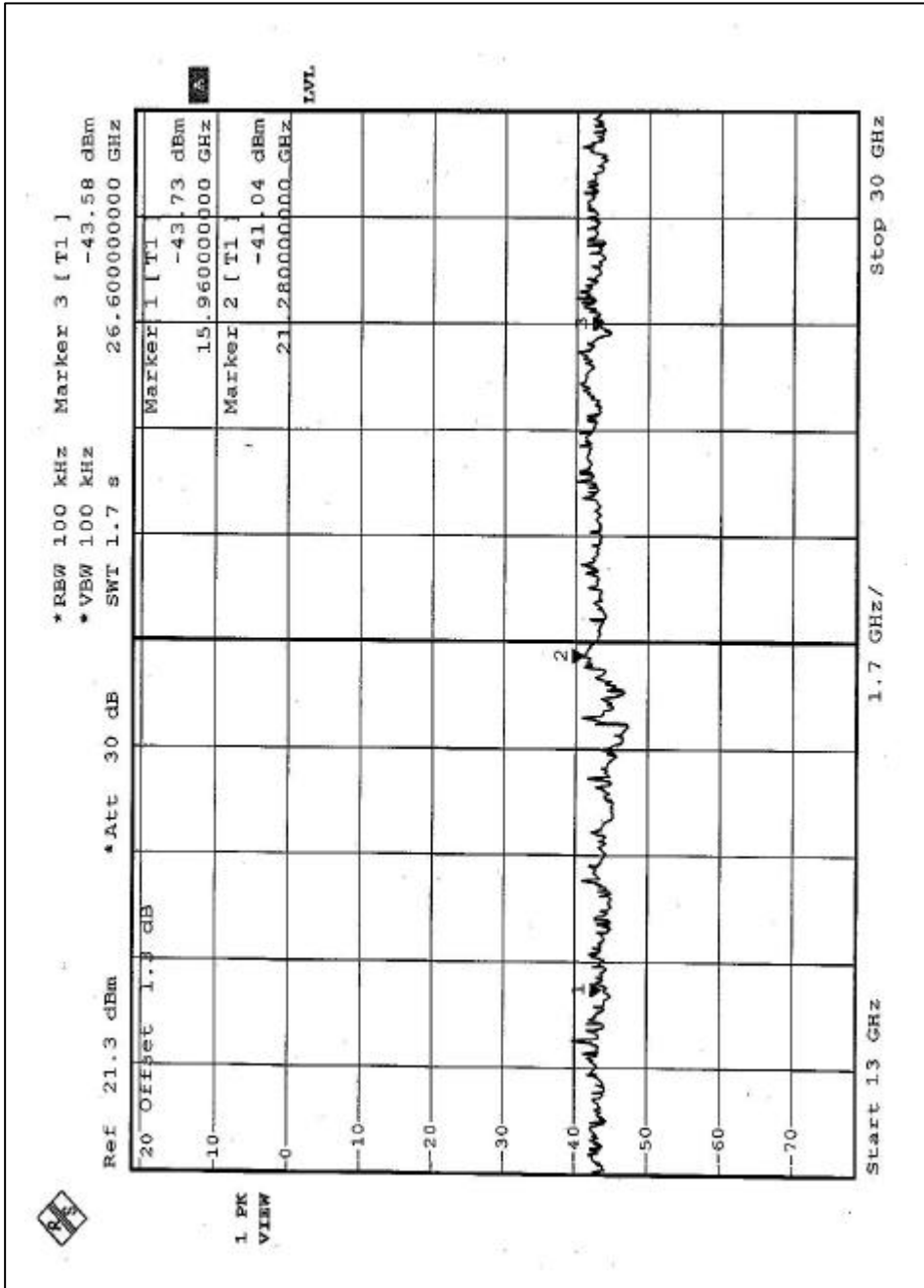






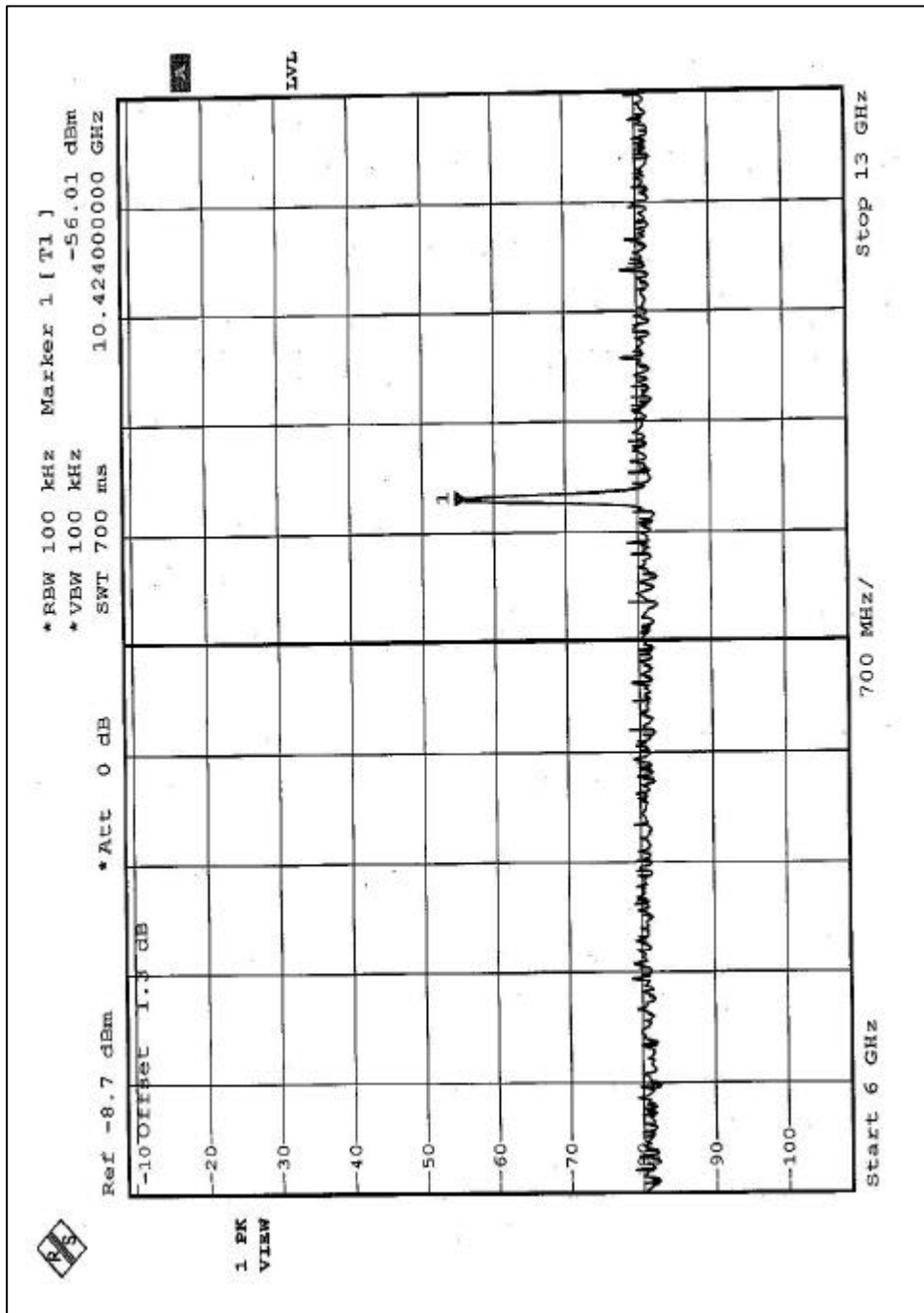


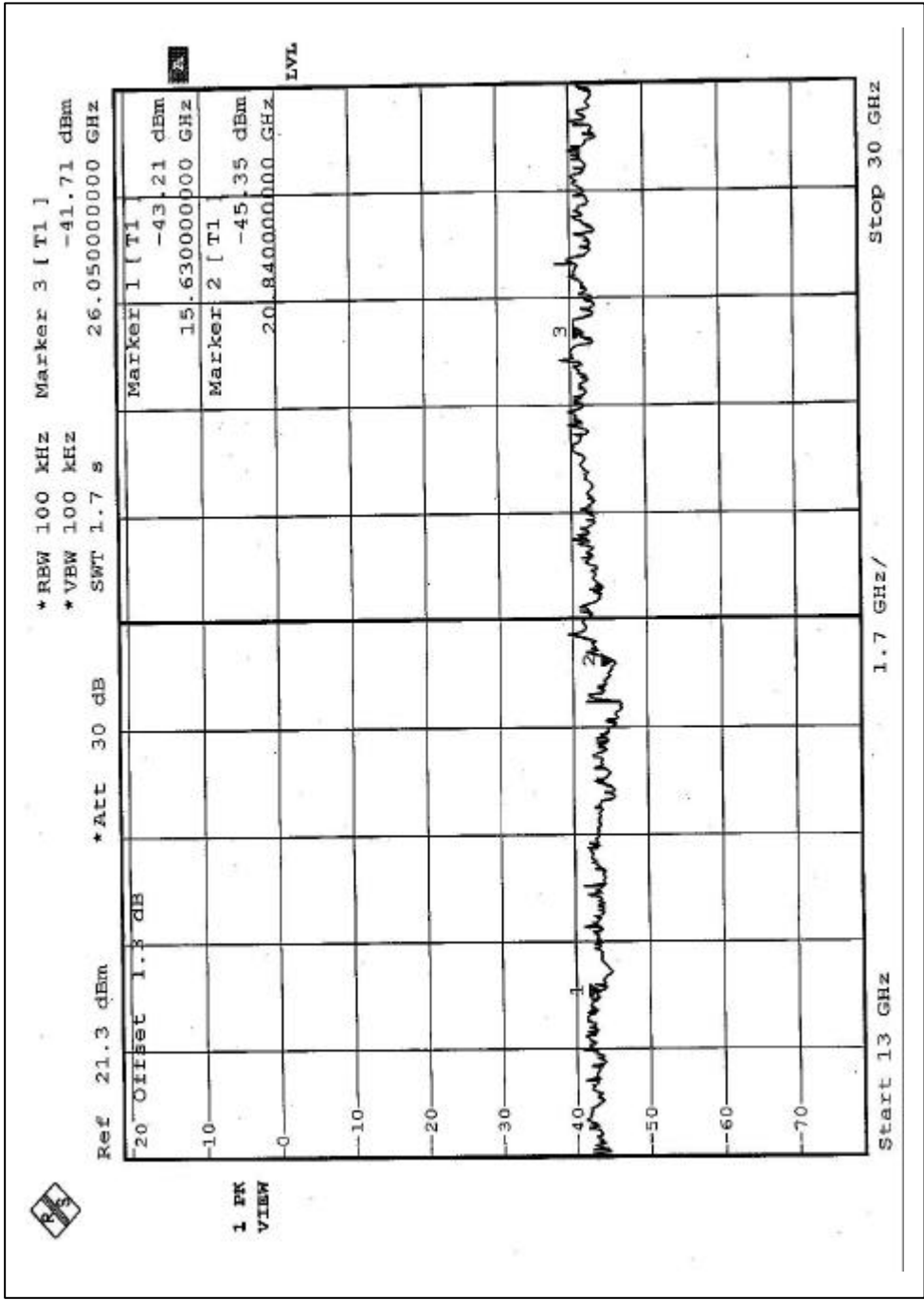


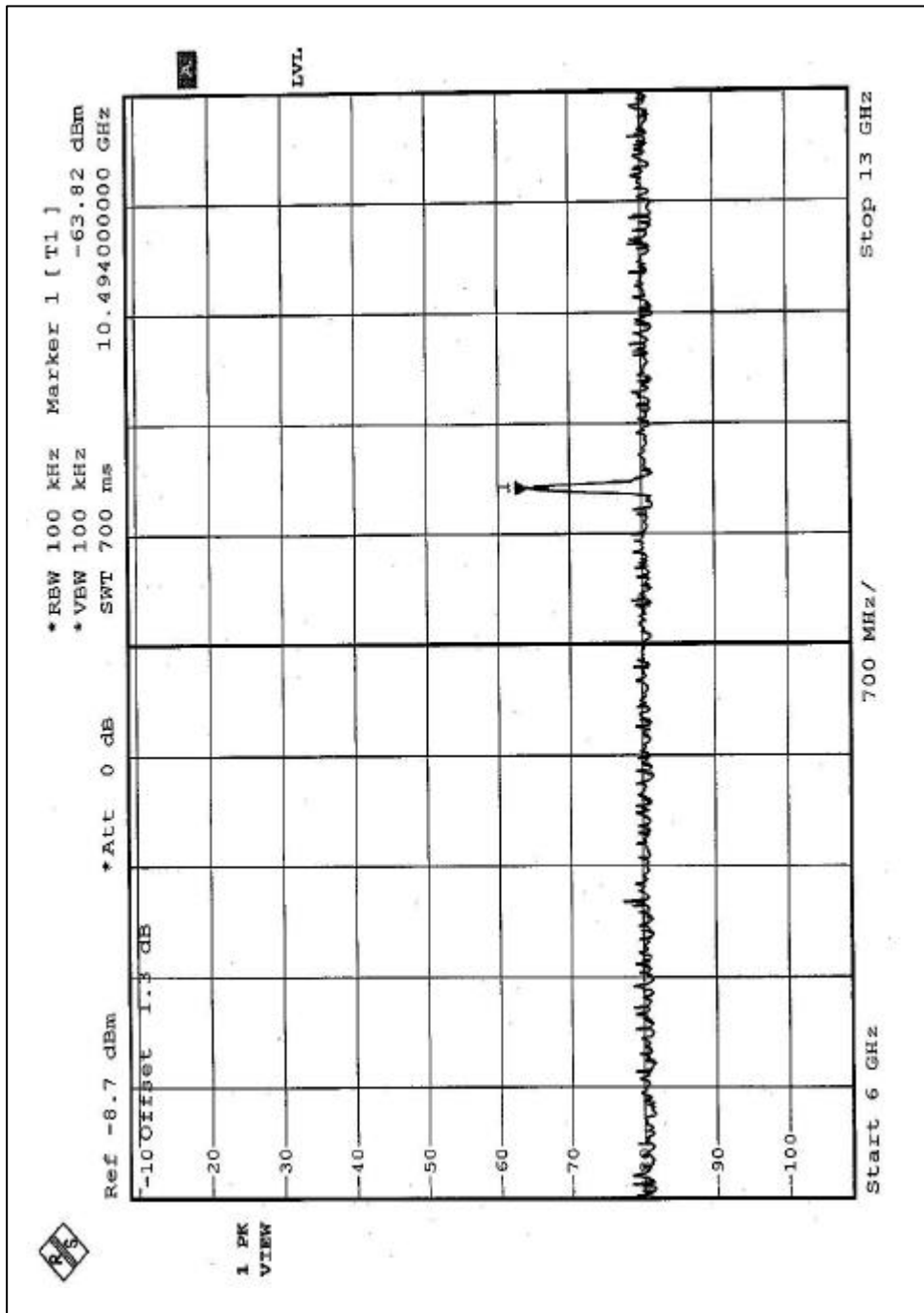


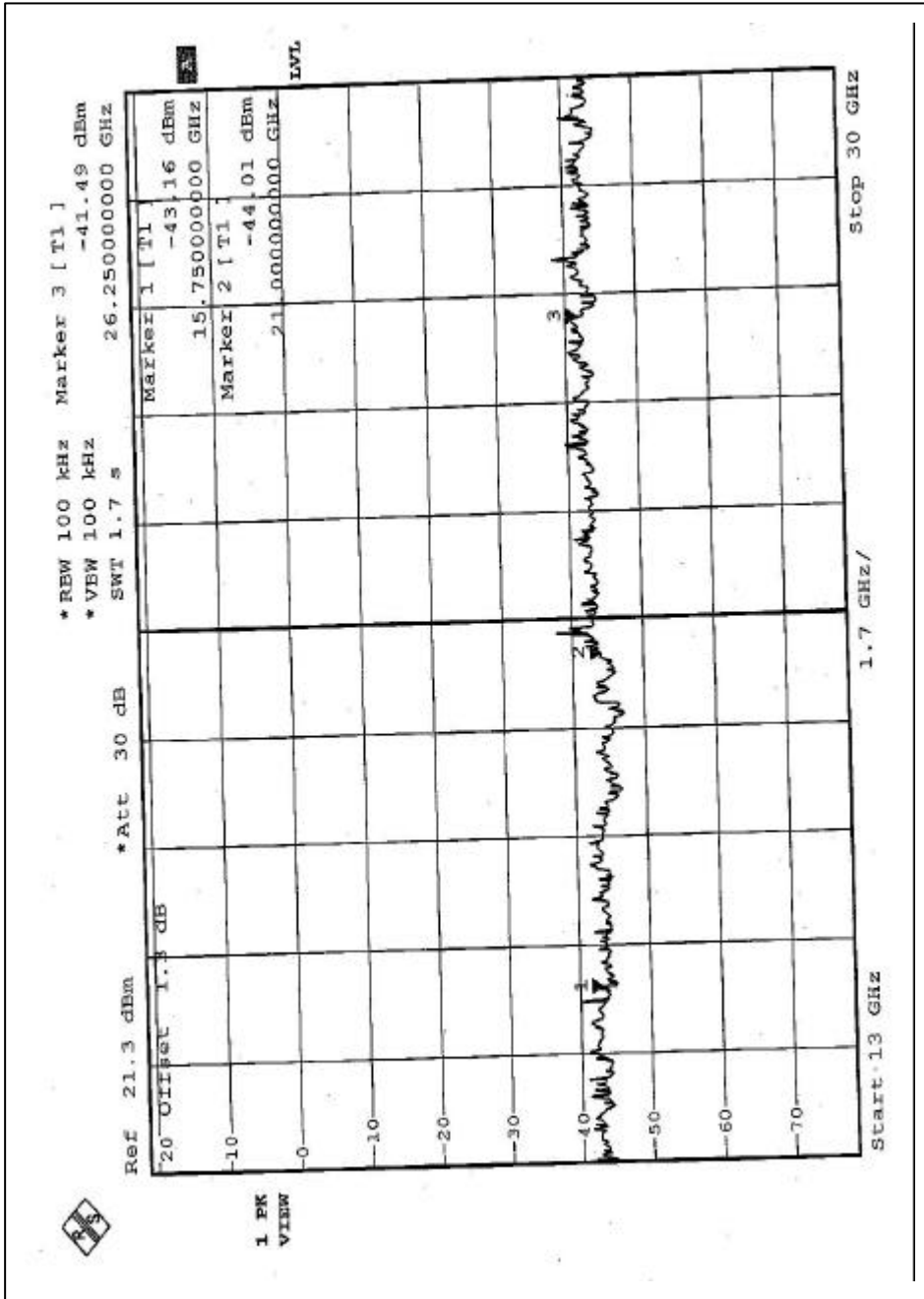
TEST RESULTS – For 802.11a, Turbo mode

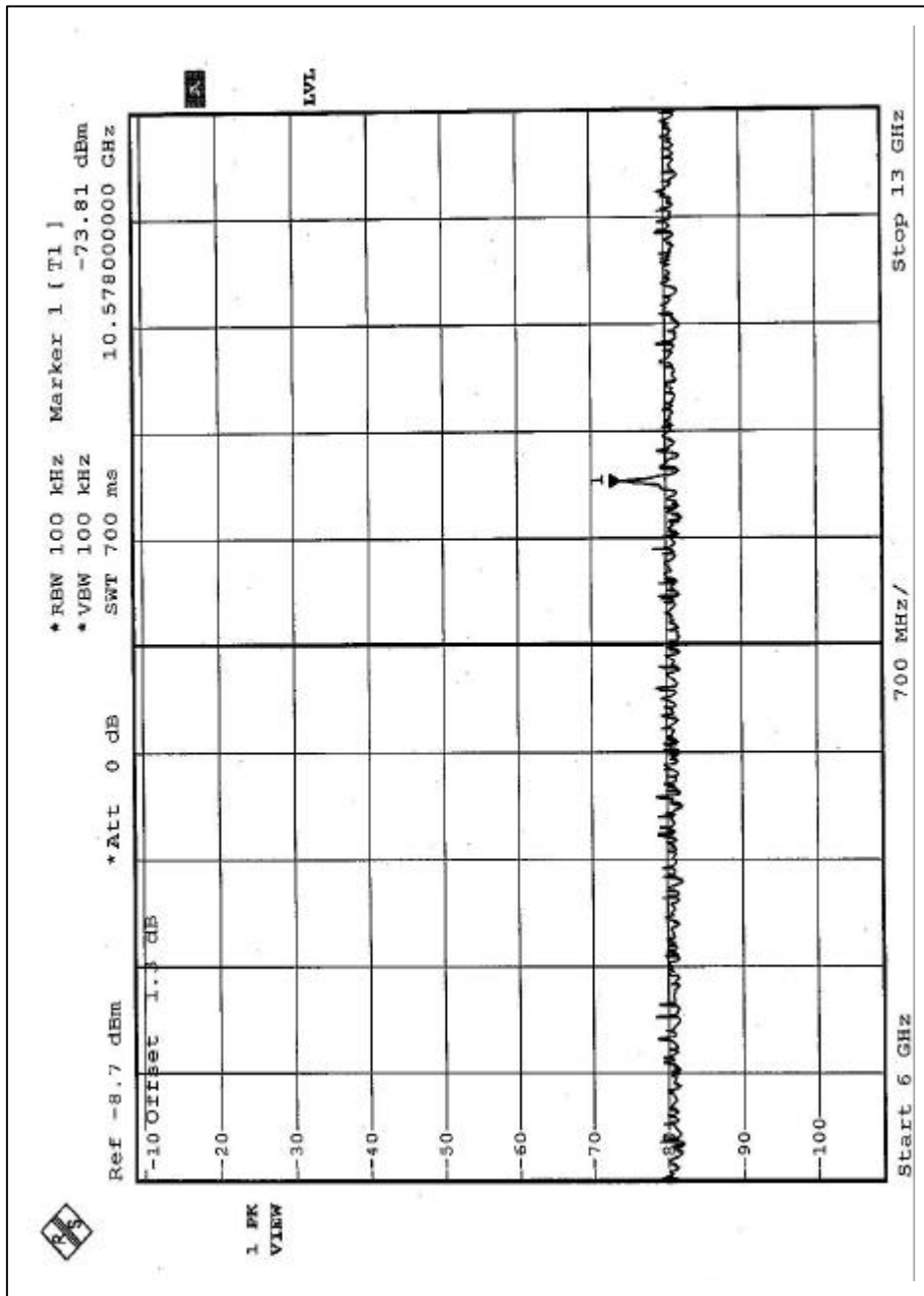
The spectrum plots are attached on the following 6 pages. It shows compliance with the requirement in part 15.407 (E), 15.205 and 15.209.

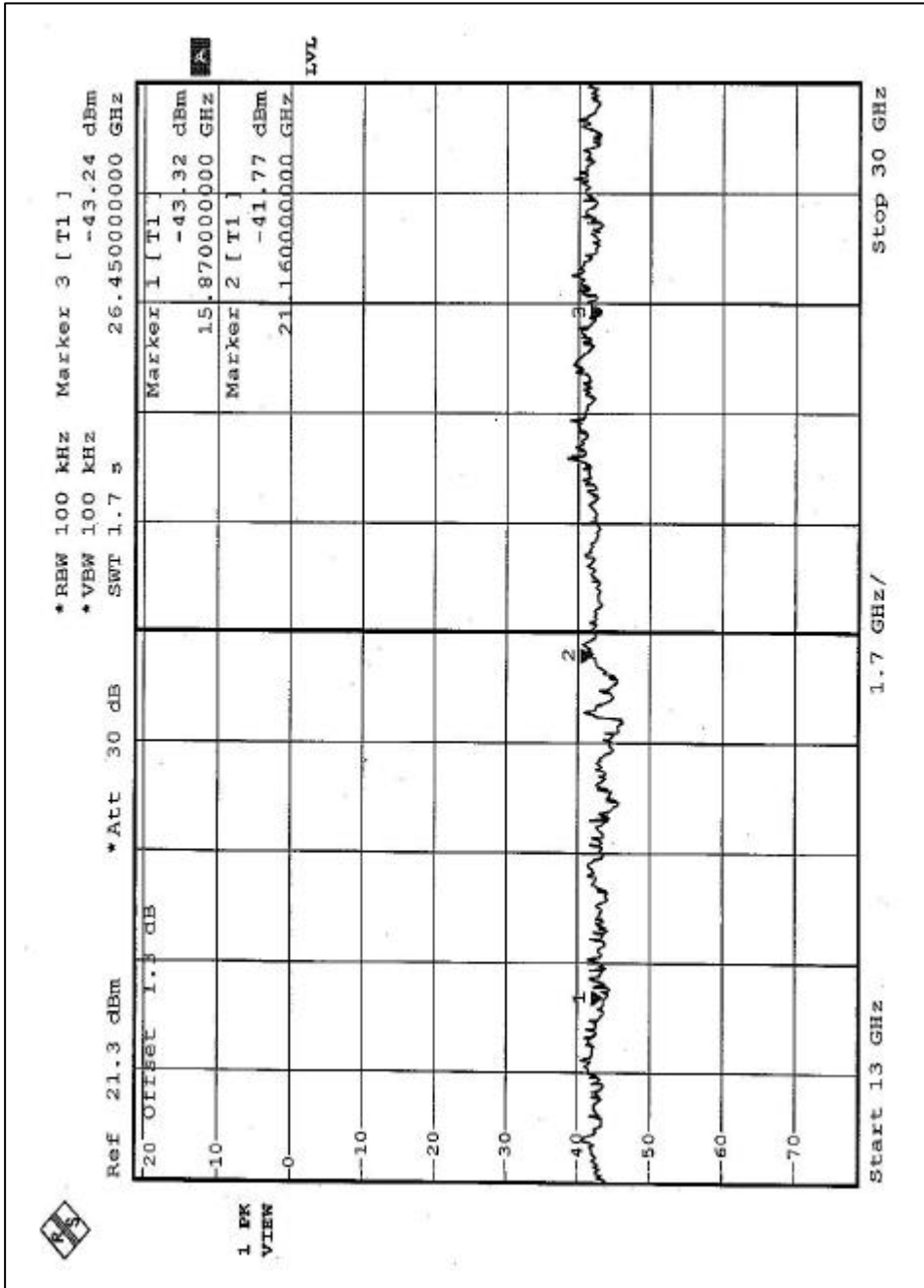








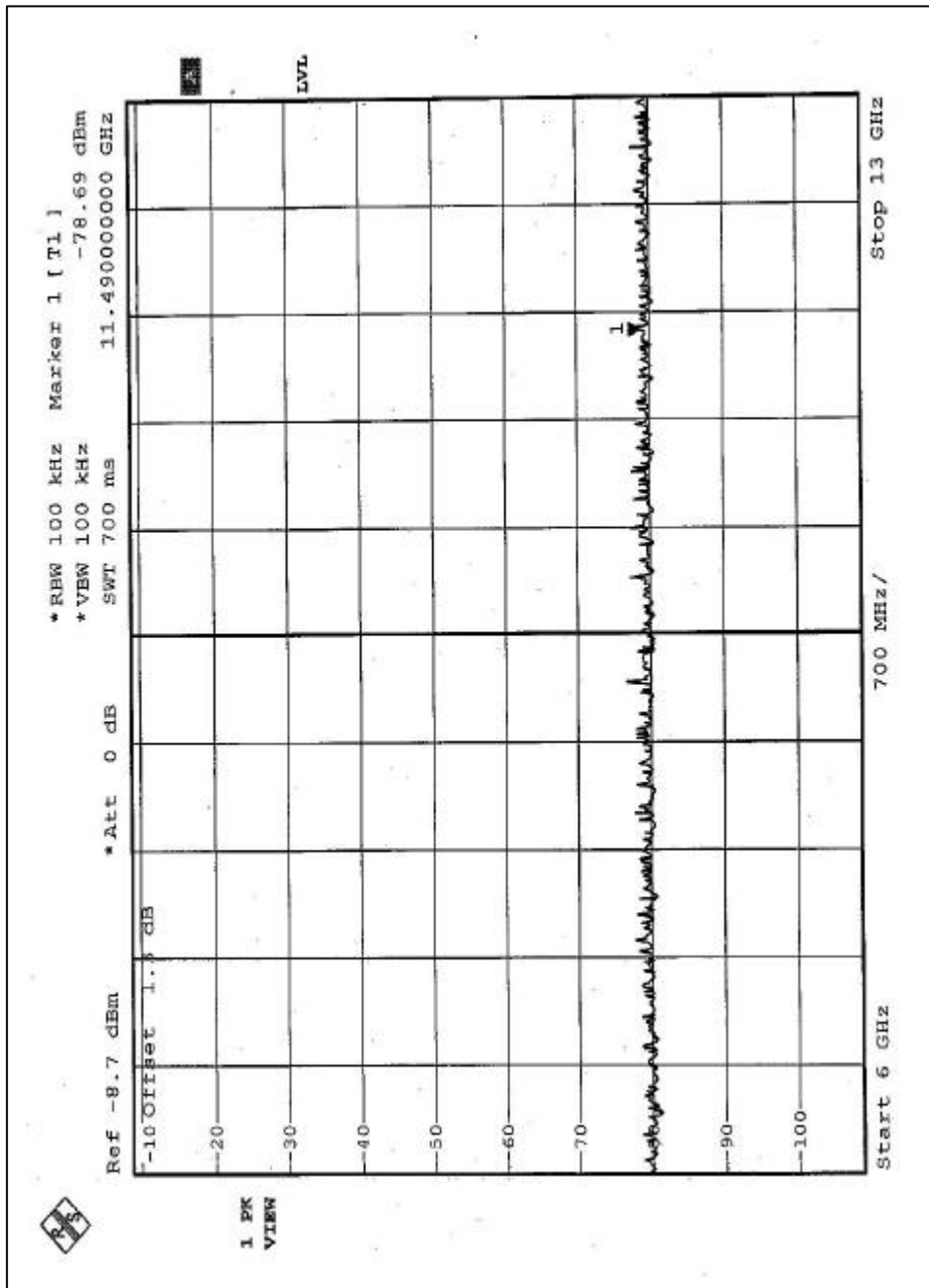


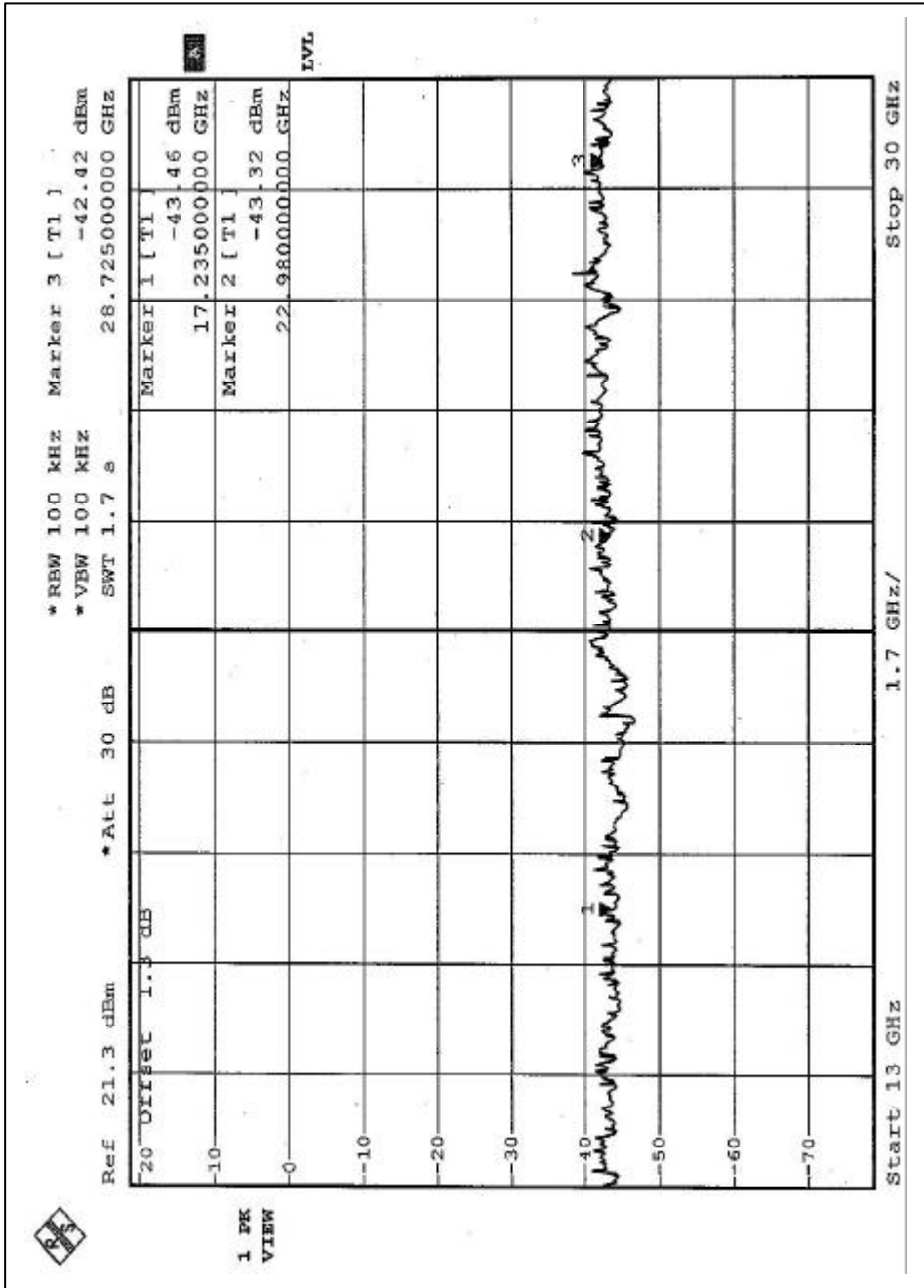


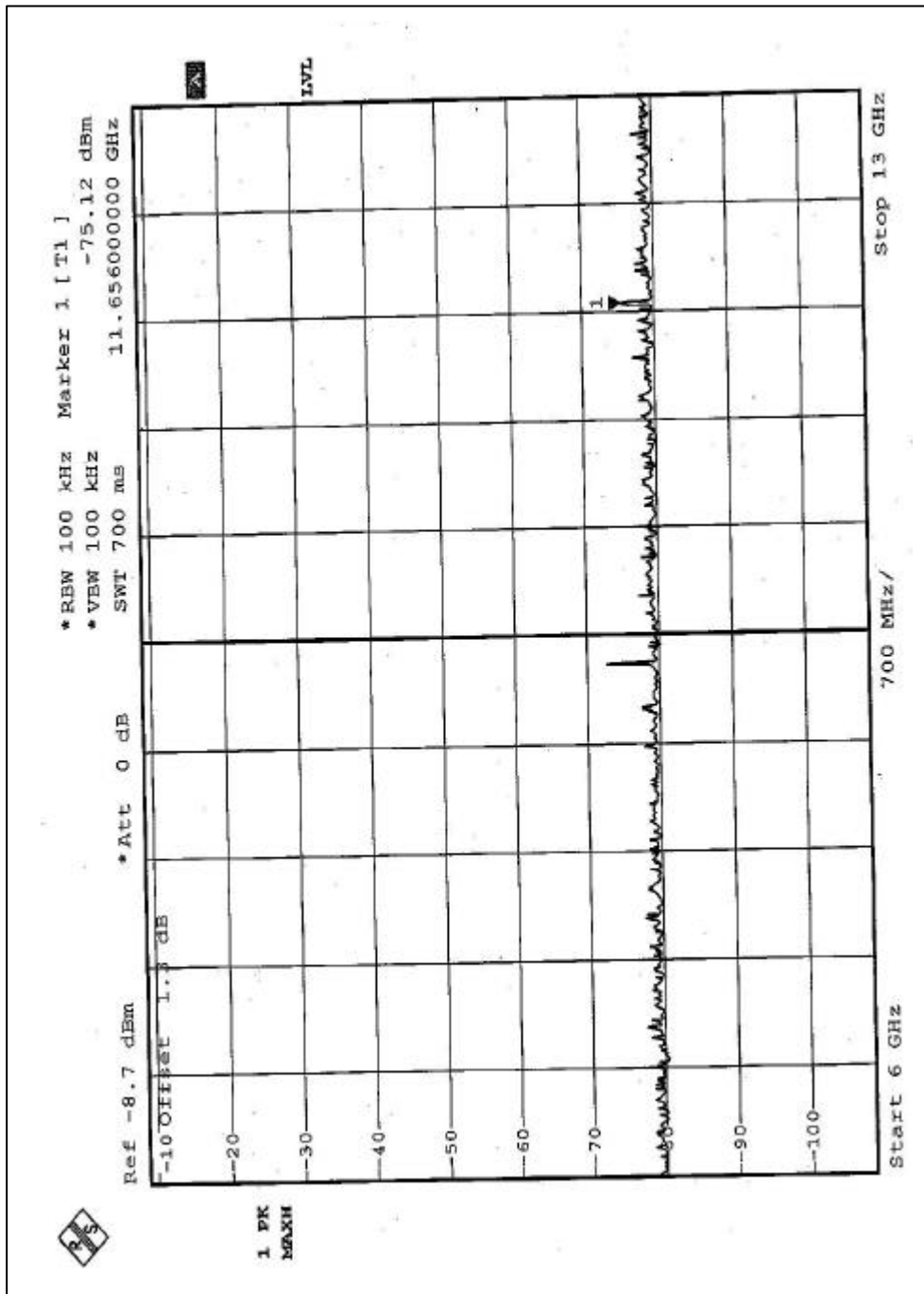
FOR FREQUENCY 5.725~5.850GHz

TEST RESULTS – For 802.11a, Normal mode

The spectrum plots are attached on the following 4 pages. It shows compliance with the requirement in part 15.247(C), 15.205 and 15.209.









*RBW 100 kHz Marker 3 [T1]

*VBW 100 kHz -42.92 dBm

*Att 30 dB SWT 1.7 s 29.125000000 GHz

Ref 21.3 dBm

20 OFFSET 1.3 dB

Marker 1 [T1] -44.12 dBm

-10 17.475000000 GHz

Marker 2 [T1] -42.61 dBm

-0 23.300000000 GHz

-10

-20

-30

-40

-50

-60

-70

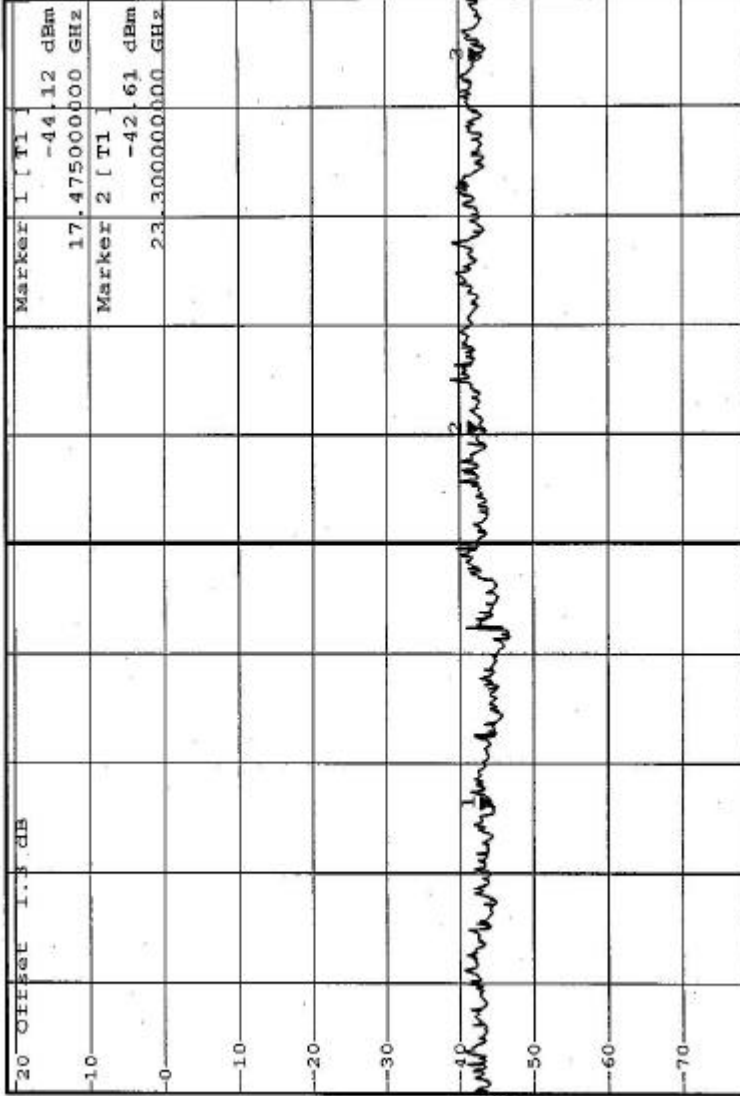
Start 13 GHz

1.7 GHz/

Stop 30 GHz

1 PK
VIEW

INVL



TEST RESULTS – For 802.11a, Turbo mode

The spectrum plots are attached on the following 4 pages. It shows compliance with the requirement in part 15.247(C), 15.205 and 15.209.

