



*Nemko USA, Inc.*  
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*San Diego, CA 92121-1024*

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**Test Report:** 2007 065693 FCC

**Applicant:** Broadcast Microwave Services  
12367 Crosthwaite Circle Dock 10  
Poway, CA 92064  
(858) 391-3050 x147  
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**Equipment Under Test:** Model: 6GHz Carry-Coder II (CCII)

**FCC ID:** CNVCCII-9L

**In Accordance With:** FCC PART 2 and FCC PART 74 Subpart F

**Tested By:** Nemko USA Inc.  
11696 Sorrento Valley Road  
San Diego, CA 92121-1024

**Date:** July 2, 2007

**Total Number of Pages:** 39

**Nemko USA Inc.**EQUIPMENT: Field Coder II (FCII)  
FCC ID: CNVCCII-9L

REPORT NO.: 2007 065693 FCC

**DOCUMENT HISTORY**

REVISION	DATE	COMMENTS
-	July 2, 2007	Prepared By: F.S.Custodio
-	July 2, 2007	Initial Release: M. T. Krumweide

NOTE: Nemko USA, Inc. hereby makes the following statements so as to conform to Chapter 10 (Test Reports) Requirements of ANSI C63.4: 2003 "Methods and Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz":

- o The unit described in this report was received at Nemko USA, Inc.'s facilities on June 25, 2007. Testing was performed on the unit described in this report on June 25, 2007 to July 2, 2007.
- o The Test Results reported herein apply only to the Unit actually tested, and to substantially identical Units.
- o This report does not imply the endorsement of the Federal Communications Commission (FCC), NVLAP or any other government agency.

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### **APPENDICES**

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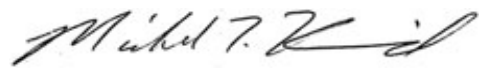
## **CERTIFICATION**

Nemko USA, Inc., an independent Electromagnetic Compatibility (EMC) Test Laboratory, produced this Test Report and performed the Radio Frequency Interference (RFI) testing and data evaluation contained herein.

Nemko USA, Inc.'s measurement facility is currently registered with the United States Federal Communications Commission (FCC) in accordance with the provisions of 47 United States Code (CFR) Part 2, Subpart I, Section 2.948(a). A current description of Nemko USA, Inc.'s measurement facility is on file with the FCC. Nemko USA Inc. has additionally satisfied the FCC that it complies with the requirements set forth in 47 CFR Part 2, Subpart I, Section 2.948(d) regarding the accreditation of EMC laboratories. As a result, the FCC has placed Nemko USA Inc. on its list of EMC laboratories approved to perform Declaration of Conformity (DOC) procedure testing.

The RFI testing, test data collection and test data evaluation were accomplished in accordance with the ANSI C63.4: 2003 Standard, and in accordance with the applicable sections of the FCC rules (47 CFR Parts 2 and 18)." digital devices. The testing was also accomplished in accordance with Industry Canada's ICES-003 standard for unintentional radiating device per EMCAB-3, Issue 3 (May 1998). The administrative summary of this test report provides a description of the test sample

I hereby certify that the test data, test data evaluation, and equipment configurations used to compile this test report are a true and accurate representation of the test sample's radio frequency interference characteristics as of the test date(s), and, for the design of the test sample.



Mike T. Krumweide, EMC Test Supervisor

## Section 1. Summary of Test Results

### General

**All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC PART 2 and FCC PART 74 Subpart F.

### Summary Of Test Data

Name Of Test	Para. No.	Result
RF Power Output	2.1046	PASS
Modulation Characteristics	2.1047	AS REPORTED
Occupied Bandwidth	2.1049	PASS
Spurious Emissions at Antenna Terminals	2.1051	PASS
Field Strength of Spurious Emissions	2.1053	PASS
Frequency Stability	2.1055	PASS

**Footnotes for 2.1047:** EUT is a digitally modulated transmitter. Parts 74 do not express limits or pass/fail criteria for Modulation Characteristics.

### Test Conditions:

**Indoor**                      Temperature:     23.3—24.4 °C  
   Humidity:                 58-60 %

**Outdoor**                      Temperature:     27 °C  
   Humidity:                 47 %

## **Section 2. General Equipment Specification**

**Manufacturer:** Broadcast Microwave Services

**Part No.:** 8014129700 (COFDM Digital Wireless Camera System)

**Model No.:** CCII-9

**FCC ID:** CNVCCII-9L

**Serial No.:** 477 Rev D

**Test Voltage:** 15VDC to EUT

**Frequency Range:** 6.425 GHz to 6.525 GHz

**Date Received In Laboratory:** June 25, 2007

**Nemko Identification No.:** 5693-1

**Antenna:** Frequency Range: 6.4 -- 7.2 GHz  
Antenna Gain: 2 dBi  
BMS Model Number: BMA-2-O  
BMS Part Number: 120103048  
Manufacturer: Peak Antenna  
Manufacturer Model Number: C0675-2

### Section 3. RF Power Output

Para. No.: 2.1046(c)

<b>Test Performed By:</b> F. S. Custodio	<b>Date of Test:</b> 07-02-07
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**Minimum Standard:** Subpart F--Television Broadcast Auxiliary Stations  
 Sec. 74.636 Power limitations.

*(a) On any authorized frequency, transmitter peak output power and the average power delivered to an antenna in this service must be the minimum amount of power necessary to carry out the communications desired and shall not exceed the values listed in the following table. Application of this principle includes, but is not to be limited to, requiring a licensee who replaces one or more of its antennas with larger antennas to reduce its antenna input power by an amount appropriate to compensate for the increased primary lobe gain of the replacement antenna(s). In no event shall the average equivalent isotropically radiated power (EIRP), as referenced to an isotropic radiator, exceed the values specified in the following table. In cases of harmful interference, the Commission may, after notice and opportunity for hearing, order a change in the effective radiated power of this station. The table follows:*

Frequency Band (MHz)	Maximum allowable transmitter power Mobile (W)	Maximum allowable EIRP <sup>2</sup>	
		Fixed (dBW)	Mobile (dBW)
2,025 to 2,110	12.0	+45	+35
2,450 to 2,483.5	12.0	+45	+35
<b>6,425 to 6,525</b>	<b>12.0</b>		<b>+35</b>
<b>6,875 to 7,125</b>	<b>12.0</b>	<b>+55</b>	<b>+35</b>
12,700 to 13,250	1.5	+55	+35
17,700 to 18,600		+55	
18,600 to 18,800 <sup>1</sup>		+35	
18,800 to 19,700		+55	

<sup>1</sup> The power delivered to the antenna is limited to -3 dBW.

<sup>2</sup> Stations licensed based on an application filed before April 16, 2003, for EIRP values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal.

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**Test Results:** EUT complies**Test Conditions:**

Measured at low, mid and high channel, RF setting set to Max using internal source via ASI (Asynchronous Serial Interface) option. Signal bandwidth is set to 8MHz, all modulation (QPSK, 16QAM and 64QAM) were measured but only the worst is reported which is 64QAM. External attenuators and cable used were verified at 41dB between 6425MHz and 6525MHz. Peak and average measurements were made using the Spectrum Analyzer's Channel Power Measurement feature. RBW and VBW are instrument controlled at RBW 100kHz/VBW 300kHz for peak and RBW 100kHz/VBW 1MHz for average. Measurement bandwidth is set to signal bandwidth.

**Measurement Data (watts):**

Conducted Measurement

Modulation	Low Channel		Mid Channel		High Channel	
	Peak	Average	Peak	Average	Peak	Average
<b>QPSK</b>	0.53	0.14	0.63	0.17	0.69	0.19
<b>16QAM</b>	0.53	0.14	0.63	0.17	0.69	0.19
<b>64QAM</b>	0.53	0.14	0.63	0.17	0.69	0.19

EIRP (Antenna=2dBi)

Modulation	Low Channel		Mid Channel		High Channel	
	Peak	Average	Peak	Average	Peak	Average
<b>QPSK</b>	0.84	0.22	1.00	0.27	1.09	0.30
<b>16QAM</b>	0.83	0.22	1.00	0.27	1.09	0.30
<b>64QAM</b>	0.84	0.23	1.00	0.27	1.10	0.30

**Low Channel = 6429MHz**  
**Mid Channel = 6475MHz**  
**High Channel = 6521MHz**





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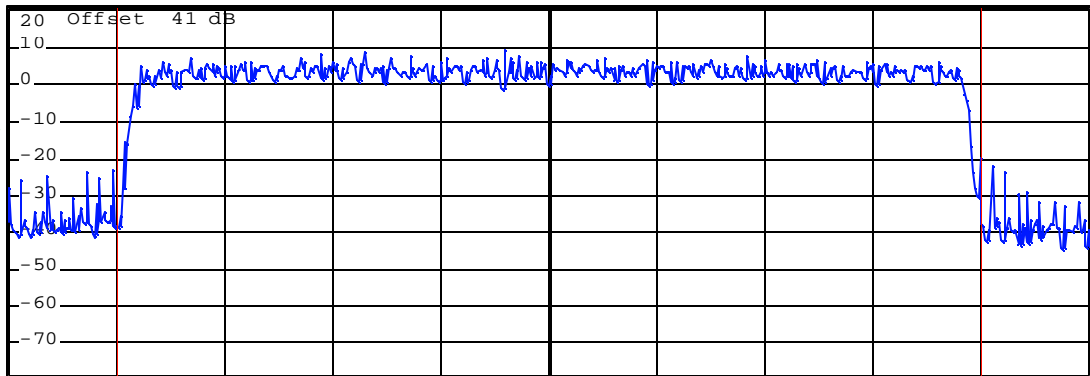


\*RBW 100 kHz  
VBW 1 MHz  
SWT 20 ms

Ref 21 dBm

Att 10 dB

L AV\*  
CLRWR



Center 6.521 GHz 1 MHz/ Span 10 MHz PRN

**Tx Channel**

Bandwidth

8 MHz

Power

22.74 dBm

Date: 2.JUL.2007 13:34:33

**Average Measurement (64QAM High Channel)**  
**Plots Shown Typical of Highest Output Power Measured**  
**22.74 dBm = 0.19 Watts**

## **Section 4. Modulation Characteristics**

**Para. No.: 2.1047**

<b>Test Performed By: Ferdinand S. Custodio</b>	<b>Date of Test: 06-25-2007</b>
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**Minimum Standard:** Part 74 Subpart F

**Test Results:** As Reported. Conducted emission plots captured on the Spectrum Analyzer thru a 40 dB attenuator.

**Measurement Data:** See attached plots to exemplify the three modes of modulation:

Modulation modes are QPSK, 16QAM and 64QAM. All measurements are done on QPSK modulation as it offers the highest Tx robustness among the three. Modulation mode has no evident effect on spurious, power or frequency stability measurements.

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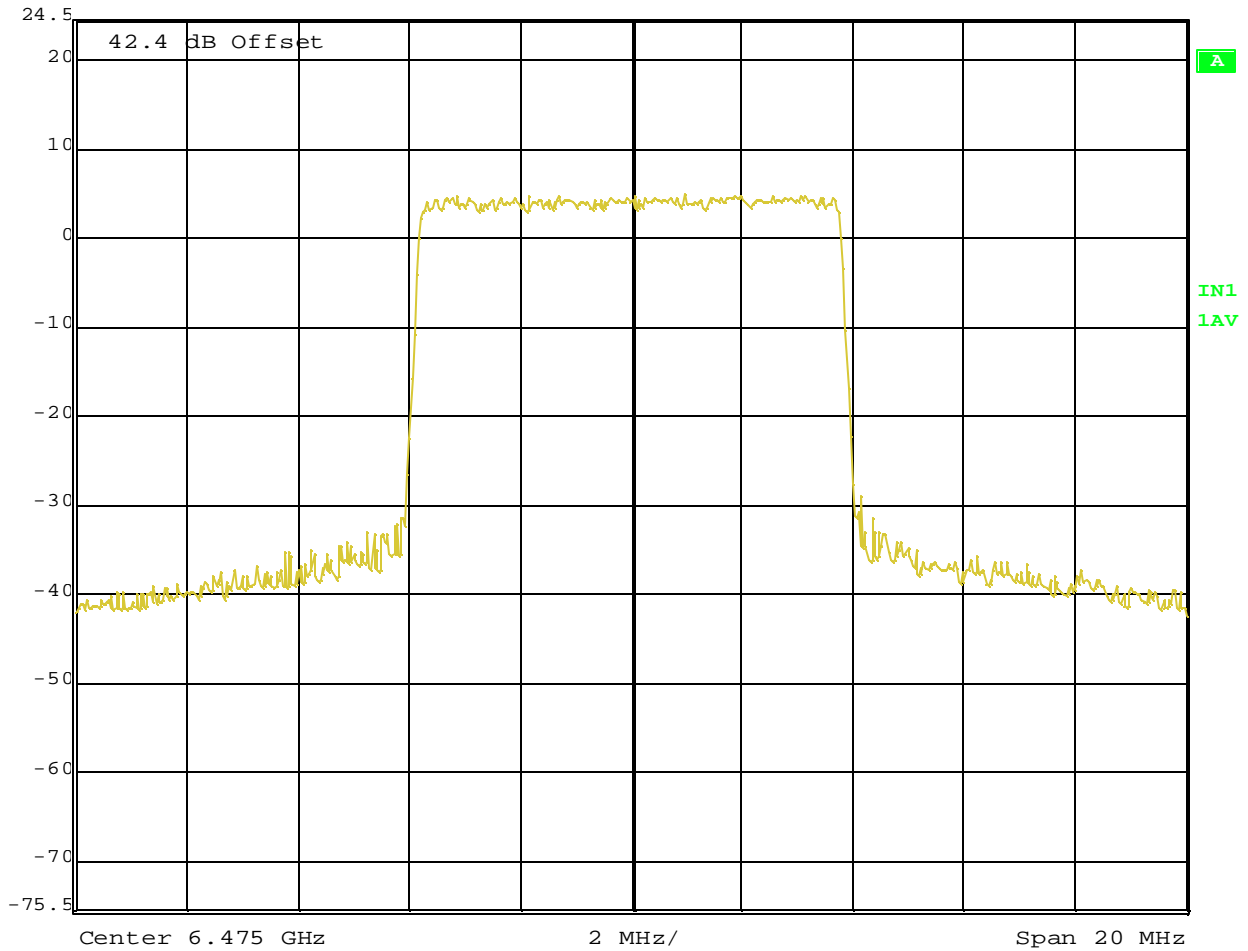
FCC ID: CNVCCII-9L

**Modulation Mode: 64QAM**



Ref Lvl  
24.5 dBm

RBW 100 kHz RF Att 10 dB  
VBW 300 kHz  
SWT 200 ms Unit dBm



Date: 25 JUN. 2007 14:22:33

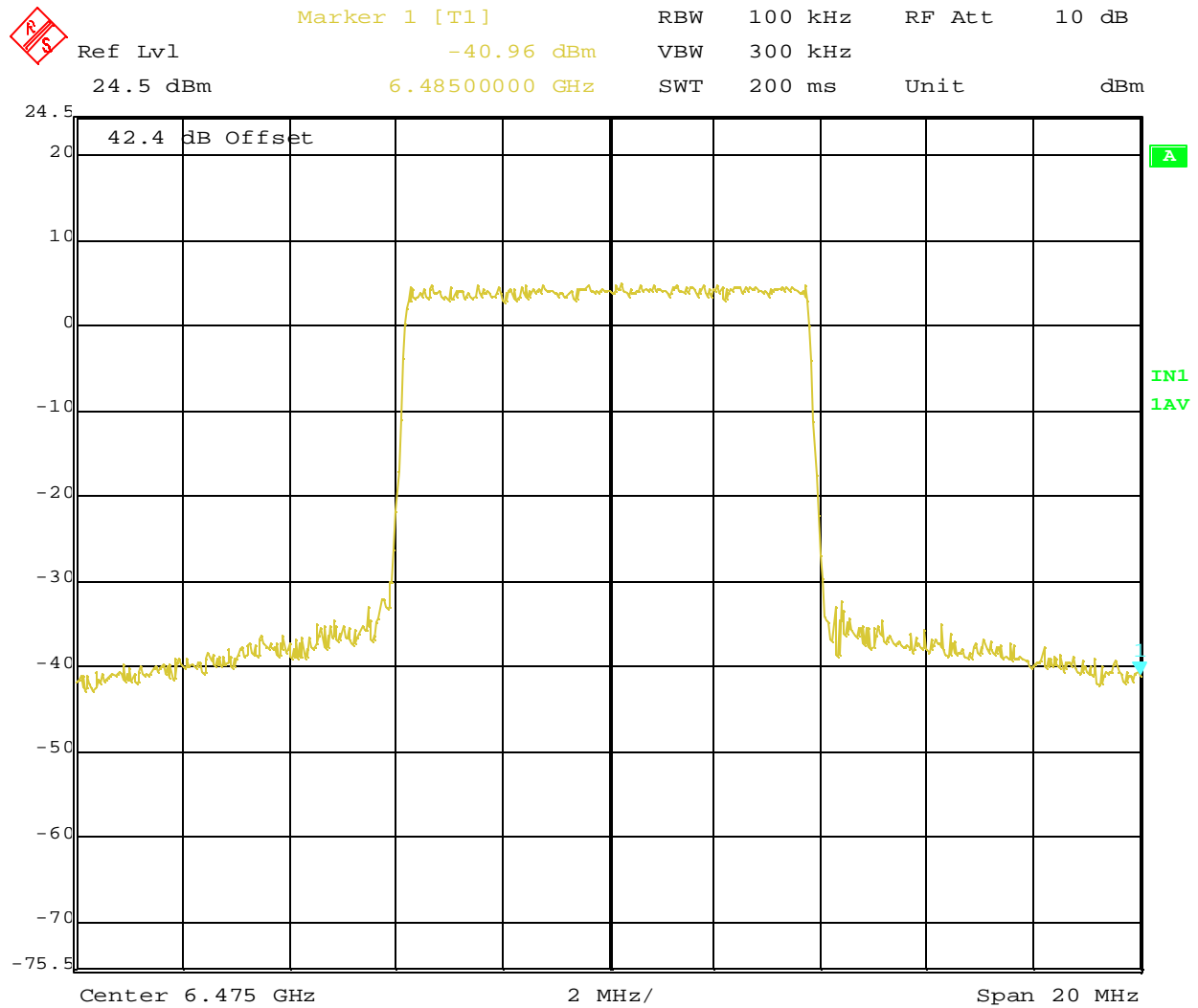
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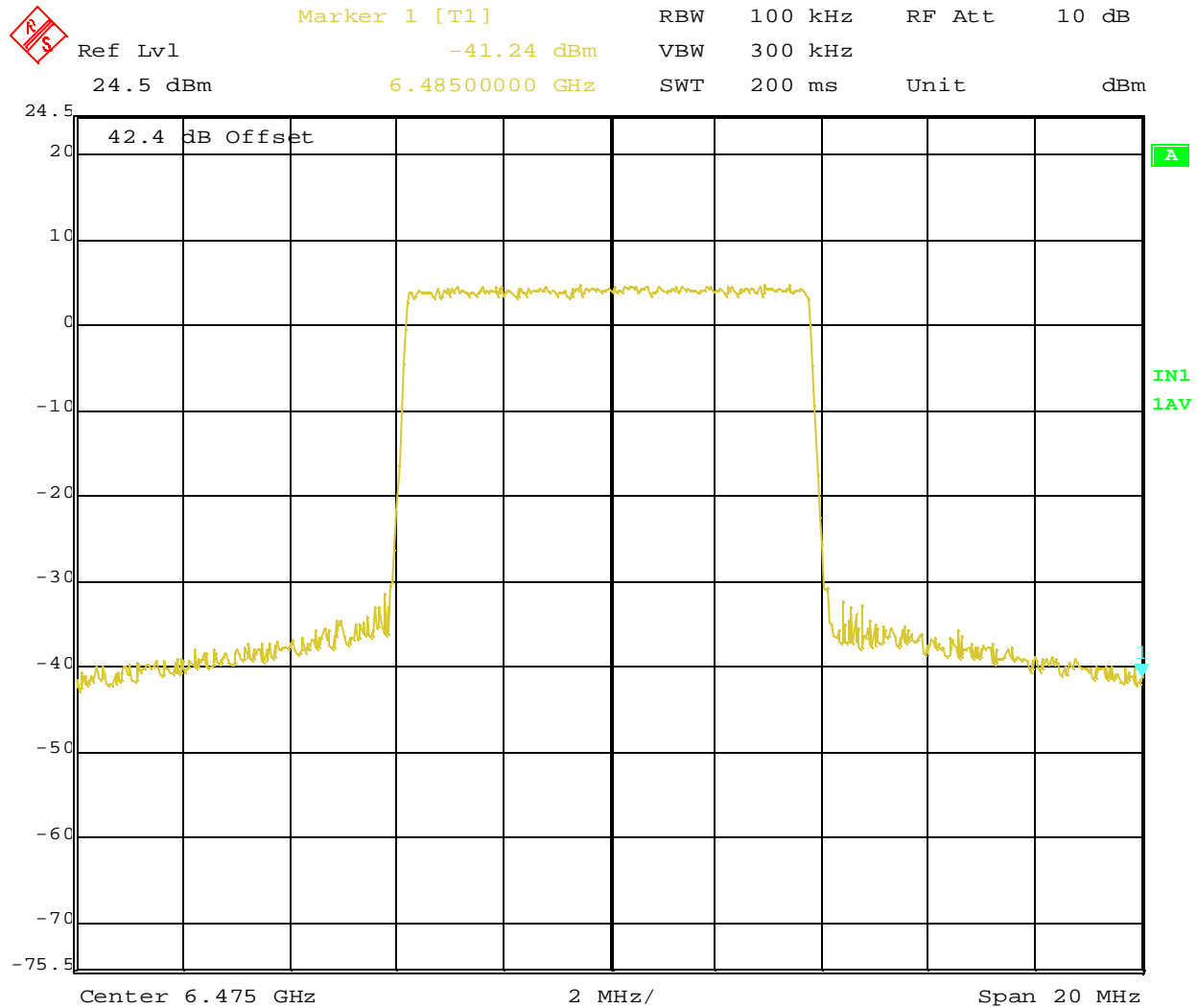
FCC ID: CNVCCII-9L

Modulation Mode: 16QAM



Date: 25.JUN.2007 14:22:00

Modulation Mode: QPSK



Date: 25.JUN.2007 14:21:32

**Section 5. Occupied Bandwidth**

Para. No.: 2.1049

<b>Test Performed By: Ferdinand Custodio</b>	<b>Date of Test: 07-02-2007</b>
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**Minimum Standard:** Part 74.637 (g) Occupied/Authorized bandwidth.

*(g) The maximum bandwidth which will be authorized per frequency assignment is set out in the table which follows. Regardless of the maximum authorized bandwidth specified for each frequency band, the Commission reserves the right to issue a license for less than the maximum bandwidth if it appears that less bandwidth would be sufficient to support an applicant's intended communications.*

<b>Frequency Band (MHz)</b>	<b>Maximum authorized bandwidth (MHz)</b>
1,990 to 2,110	18
6,425 to 6,525	25
6,875 to 7,125	25
12,700 to 13,250	25
17,700 to 19,700	80

**Test Results:** EUT Complies. Conductive emission plots captured on the Spectrum Analyzer thru a 40 dB attenuator.**Test Data:** See attached plots. The EUT has a selectable RF Bandwidth of 6, 7 and 8MHz (Digital COFDM). The EUT was investigated using low, mid and high channel on all modulations (QPSK, 16QAM and 64QAM). The resulting plots submitted here represent each bandwidth since identical results were obtained on all configurations represented.

QPSK 8 MHz Bandwidth

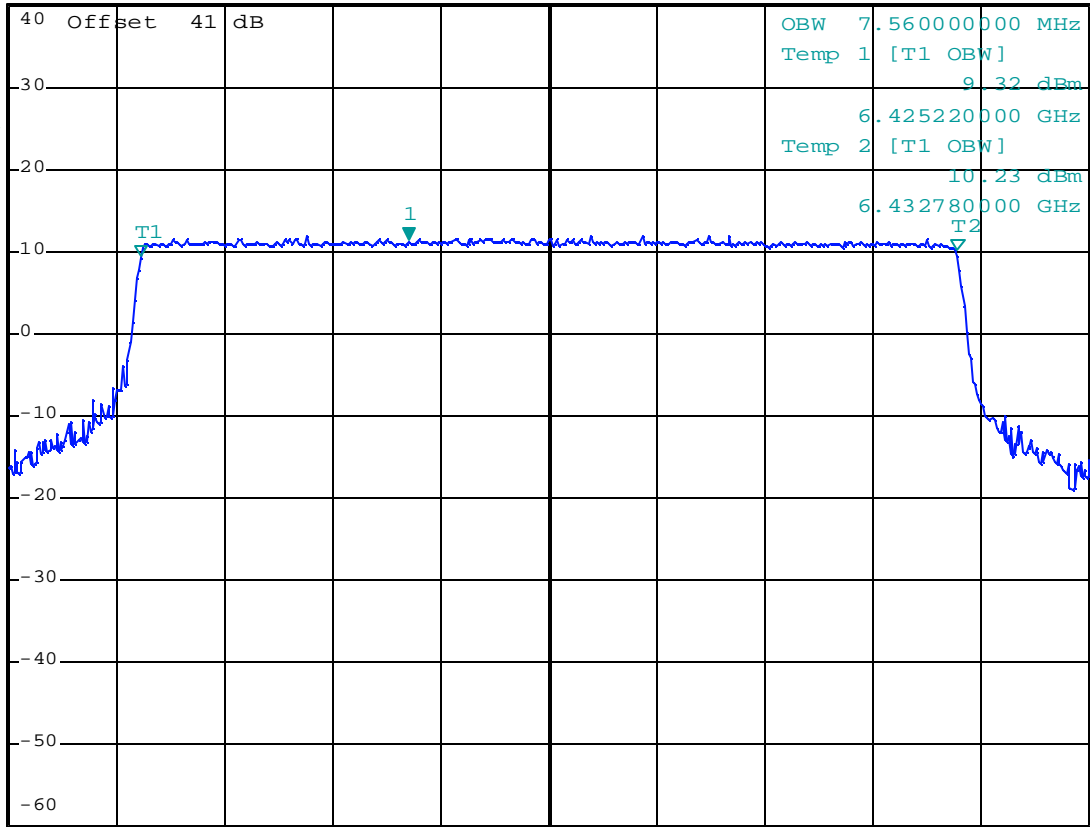


\*RBW 100 kHz Marker 1 [T1 ]  
VBW 300 kHz 11.50 dBm  
\*SWT 200 ms 6.427700000 GHz

Ref 40 dBm

Att 20 dB

1 PK\*  
AVG



Center 6.429 GHz

1 MHz/

Span 10 MHz

Date: 2.JUL.2007 14:50:50



QPSK 7 MHz Bandwidth

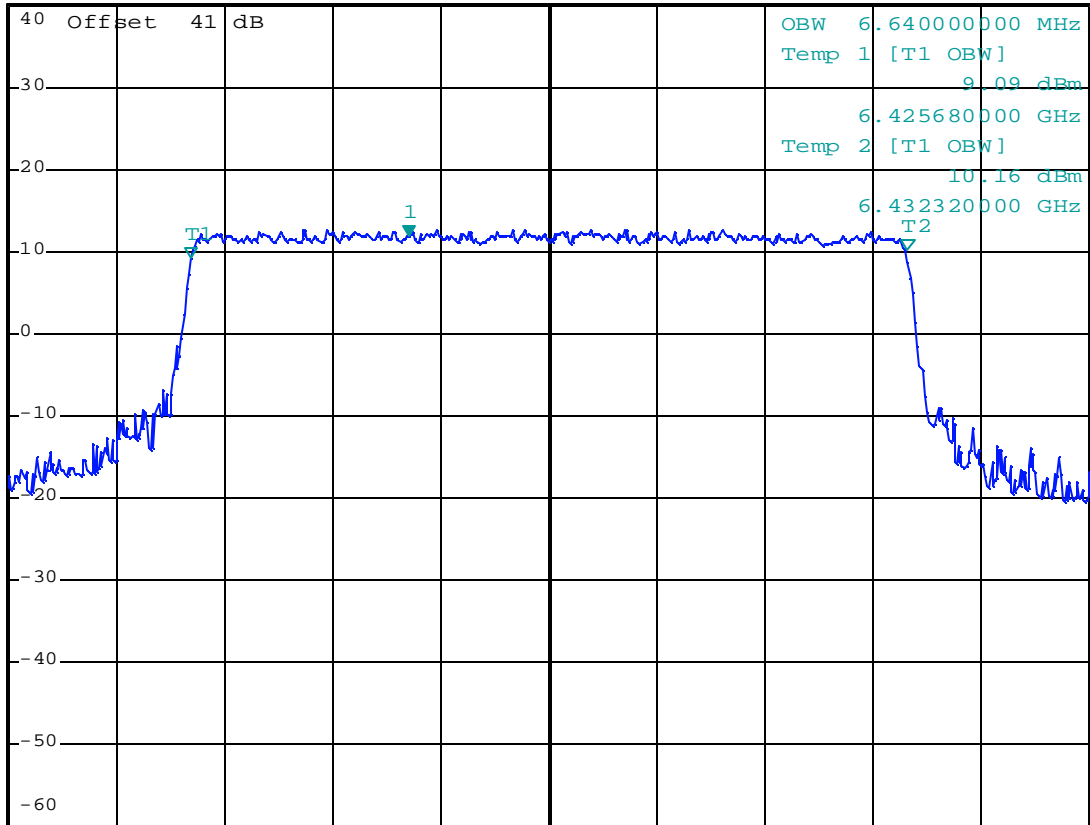


\*RBW 100 kHz    Marker 1 [T1 ]  
VBW 300 kHz                    11.69 dBm  
\*SWT 200 ms                    6.427700000 GHz

Ref 40 dBm

Att 20 dB

L PK\*  
AVG



Center 6.429 GHz

1 MHz/

Span 10 MHz

Date: 2.JUL.2007 14:51:44

QPSK 6 MHz Bandwidth

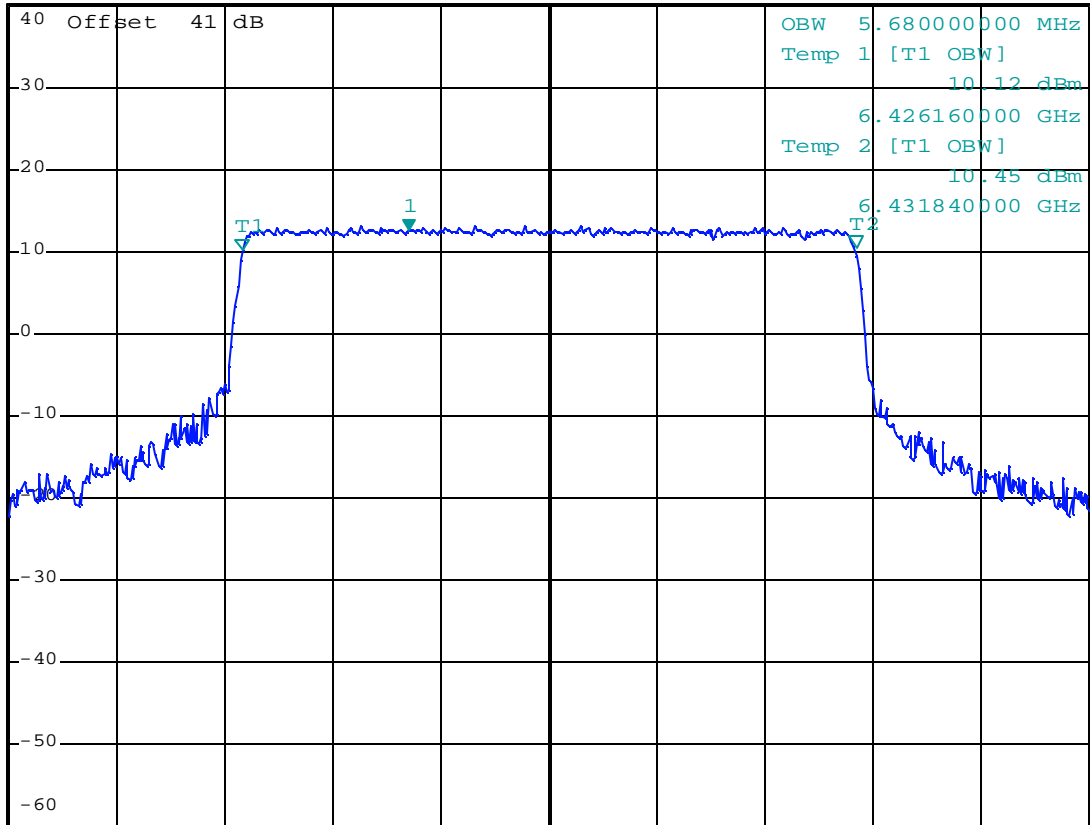


\*RBW 100 kHz    Marker 1 [T1 ]  
VBW 300 kHz                    12.67 dBm  
\*SWT 200 ms                    6.427700000 GHz

Ref 40 dBm

Att 20 dB

L PK\*  
AVG



Center 6.429 GHz

1 MHz/

Span 10 MHz

Date: 2.JUL.2007 14:52:14

## Section 6. Spurious Emissions At Antenna Terminals

Para. No.: 2.1051

Test Performed By: Ferdinand Custodio	Date of Test: 07-02-2007
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**Minimum Standard:** Part 74.637 Emissions and emission limitations

*(a) The mean power of emissions shall be attenuated below the mean transmitter power ( $P_{MEAN}$ ) in accordance with the following schedule:*

*(1) When using frequency modulation:*

*(i) On any frequency removed from the assigned (center) frequency by more than 50% up to and including 100% of the authorized bandwidth: At least 25 dB in any 100 kHz reference bandwidth ( $B_{REF}$ );*

*(ii) On any frequency removed from the assigned (center) frequency by more than 100% up to and including 250% of the authorized bandwidth: At least 35 dB in any 100 kHz reference bandwidth;*

*(iii) On any frequency removed from the assigned (center) frequency by more than 250% of the authorized bandwidth: At least  $43 + 10 \log_{10} (P_{MEAN} \text{ in watts})$  dB, or 80 dB, whichever is the lesser attenuation, in any 100 kHz reference bandwidth.*

*(2) When using transmissions employing digital modulation techniques:*

*(i) For operating frequencies below 15 GHz, in any 4 kHz reference bandwidth ( $B_{REF}$ ), the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 50 decibels:*

$$A = 35 + 0.8 (G - 50) + 10 \text{ Log}_{10} B.$$

*(Attenuation greater than 80 decibels is not required.)*

*Where:*

*A = Attenuation (in decibels) below the mean output power level.*

*G = Percent removed from the carrier frequency.*

*B = Authorized bandwidth in megahertz.*

*(c) For purposes of compliance with the emission limitation requirements of this section:*

*(3) For demonstrating compliance with the attenuation requirements for frequency modulation and digital modulation in paragraph (a) of this section, the resolution bandwidth ( $B_{RES}$ ) of the measuring equipment used for measurements removed from the center frequency by more*

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*than 250 percent of the authorized bandwidth shall be 100 kHz for operating frequencies below 1 GHz, and 1 MHz for operating frequencies above 1 GHz. The resolution bandwidth for frequencies removed from the center frequency by less than 250 percent of the authorized bandwidth shall be the reference bandwidth ( $B_{REF}$ ) specified in the individual emission limitations, but may be reduced to not less than one percent of the authorized bandwidth ( $B$ ), adjusted upward to the nearest greater resolution bandwidth available on the measuring equipment. In all cases, if  $B_{RES}$  and  $B_{REF}$  are not equal, then the attenuation requirement must be increased (or decreased) as determined by a factor of  $10 \log_{10} [(B_{REF} \text{ in megahertz}) / (B_{RES} \text{ in megahertz})]$  decibels, where a positive factor indicates an increase in the attenuation requirement and a negative factor indicates a decrease in the attenuation requirement.*

### Test Results:

EUT Complies. Conductive emission plots captured on the Spectrum Analyzer thru a 40 dB attenuator.. Emissions were investigated from 30 MHz to 40 GHz .

### Test Data:

See attached Plots (balance in Appendix).

RF setting set to Max using internal source via ASI (Asynchronous Serial Interface) option. Signal bandwidth is set to 8MHz. External attenuators and cable used were verified at 41dB between 6.425GHz and 6.525GHz

For each channel investigated, the reference level used is the Mean Output Power (Average) measured under RF Power Output Test. A compliance factor of  $10 \log (B_{ref}/B_{res})$  was used for using 100kHz RBW to calculate the mask:

$$\begin{aligned} A &= 35 + 0.8(G - 50) + 10 \log 12 + 10 \log (4/100) \\ &= 80 + (-13.98) \\ &= 66 \text{ db attenuation @ 100kHz RBW} \end{aligned}$$

The EUT was investigated using all three modulation schemes but identical results were obtained for all mode of operations.

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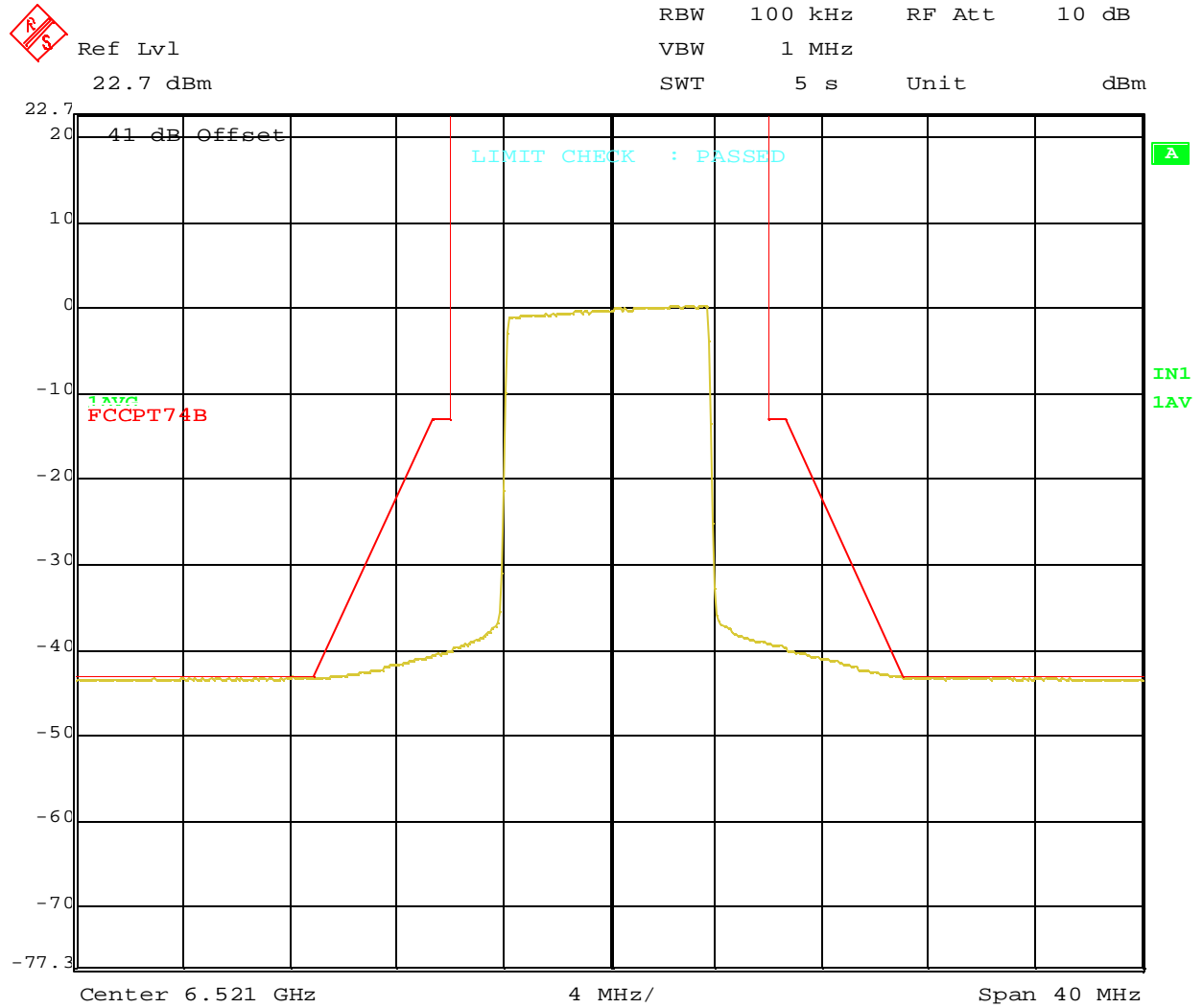
REPORT NO.: 2007 065693 FCC

FCC ID: CNVCCII-9L

Emission Mask Endpoints Part 74.637(C)(3):

BW = 12 MHz, REF LVL = Mean Output Power

## High Channel 6521 MHz 64QAM



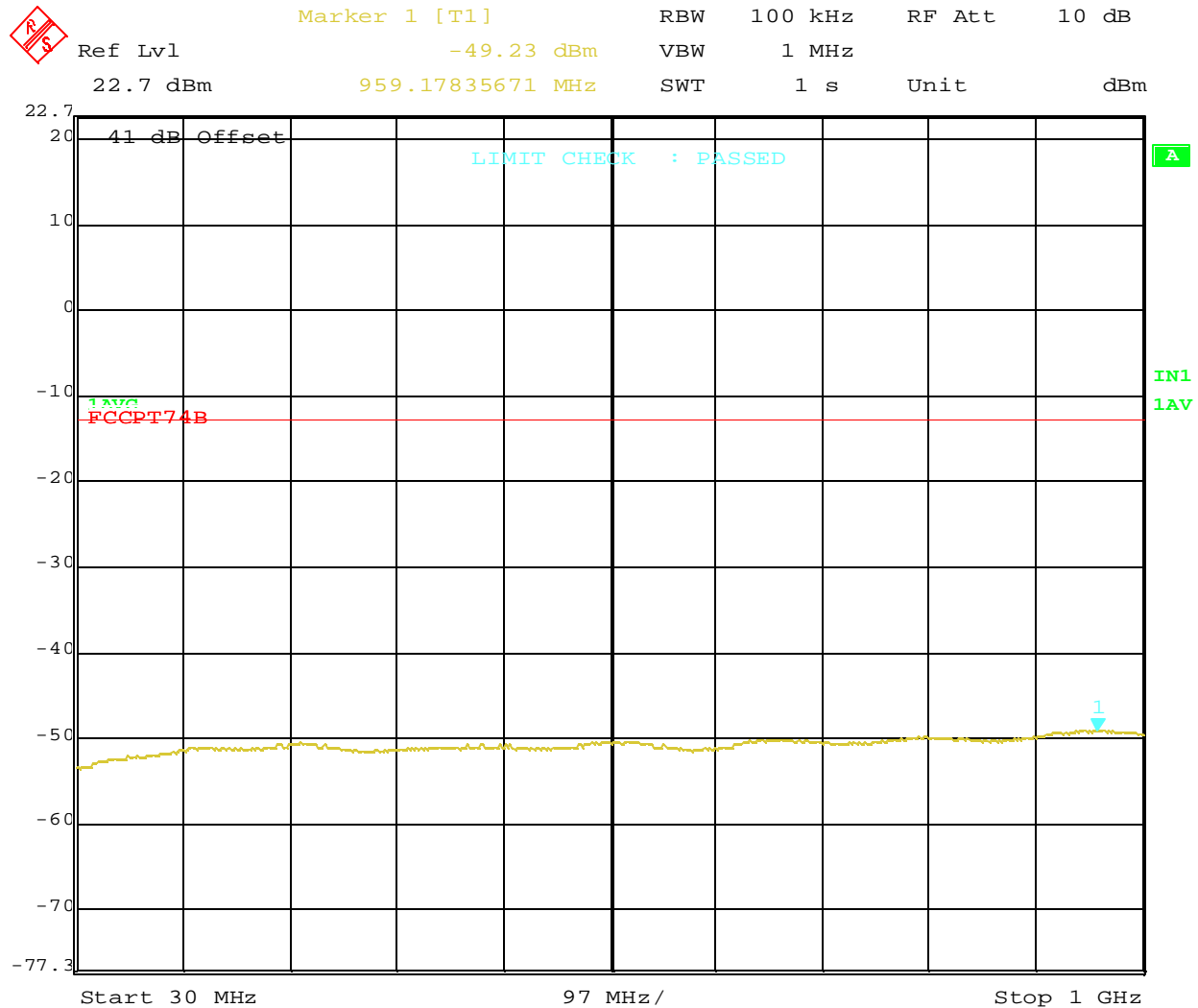
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FCC ID: CNVCCII-9L



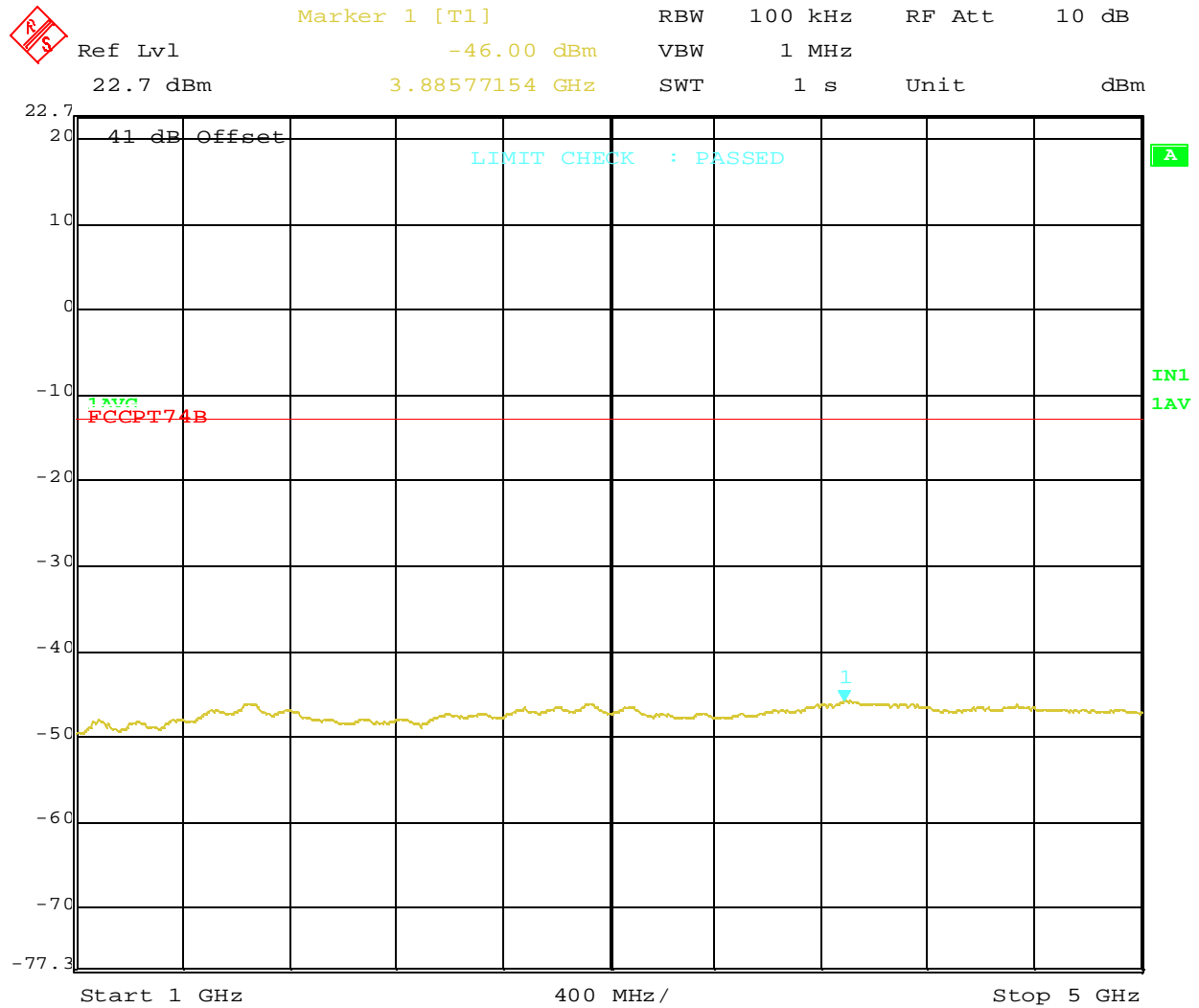
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EQUIPMENT: Field Coder II (FCII)

REPORT NO.: 2007 065693 FCC

FCC ID: CNVCCII-9L



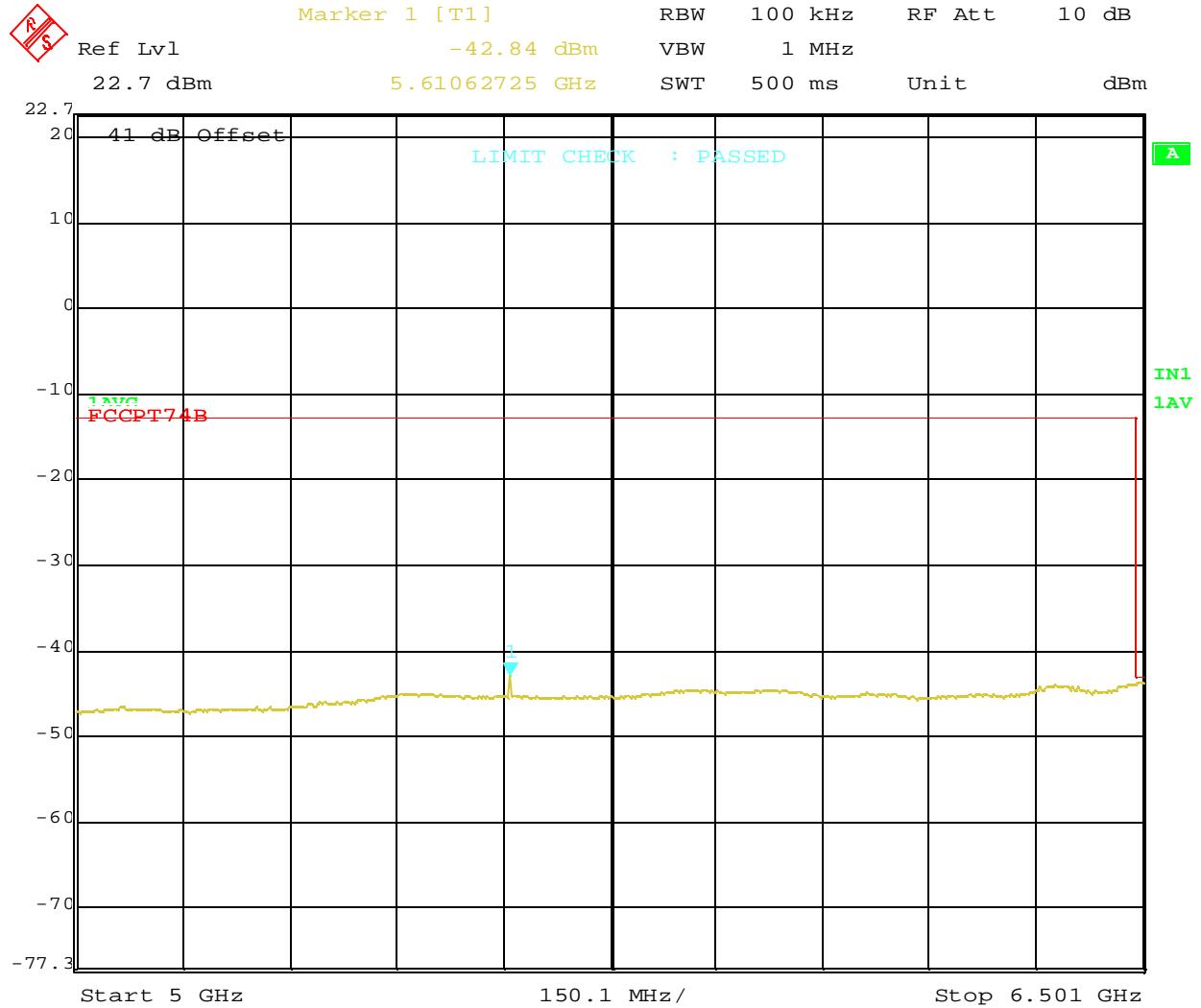
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FCC ID: CNVCCII-9L



Date: 2.JUL.2007 12:46:45

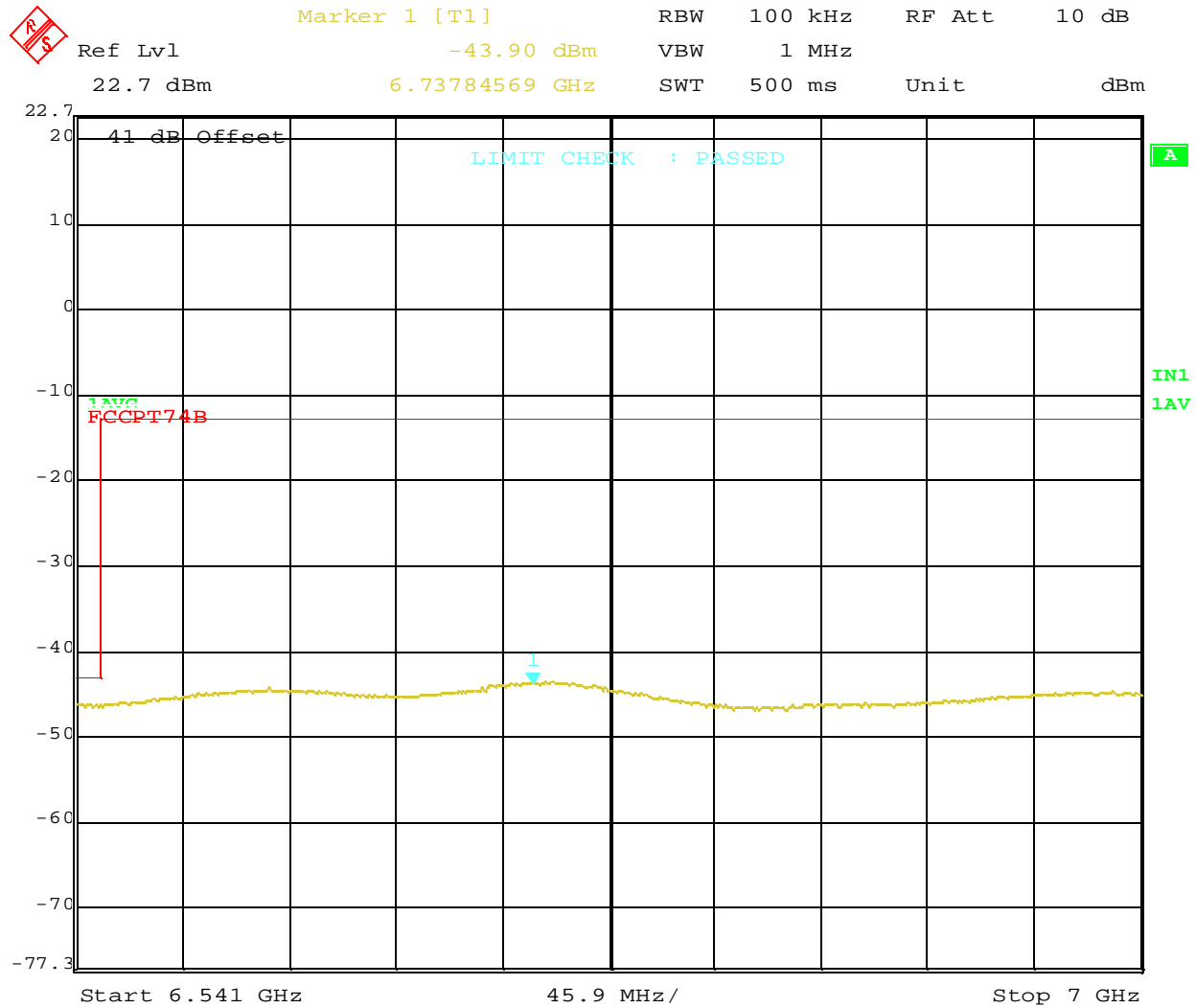


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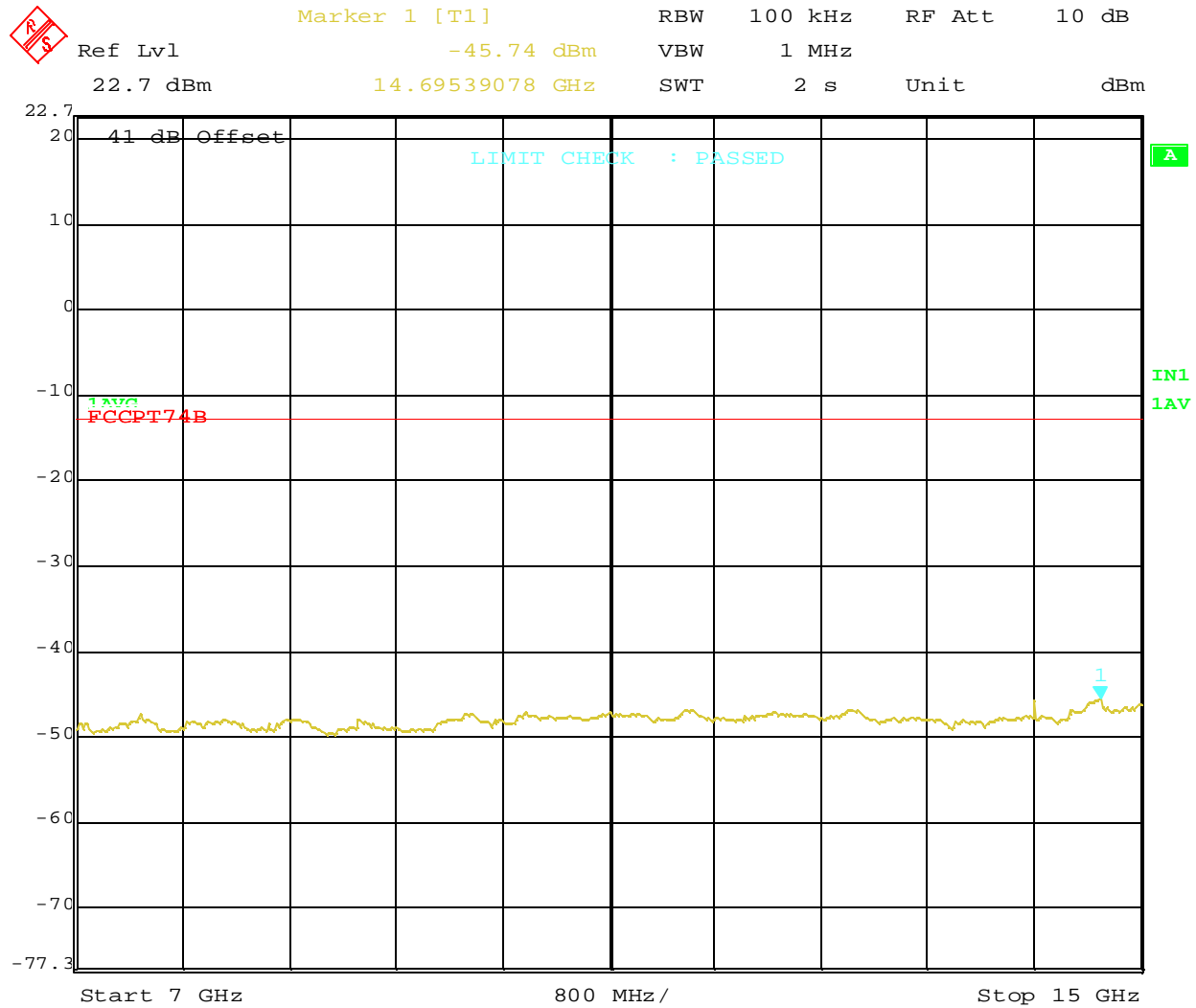
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REPORT NO.: 2007 065693 FCC

FCC ID: CNVCCII-9L



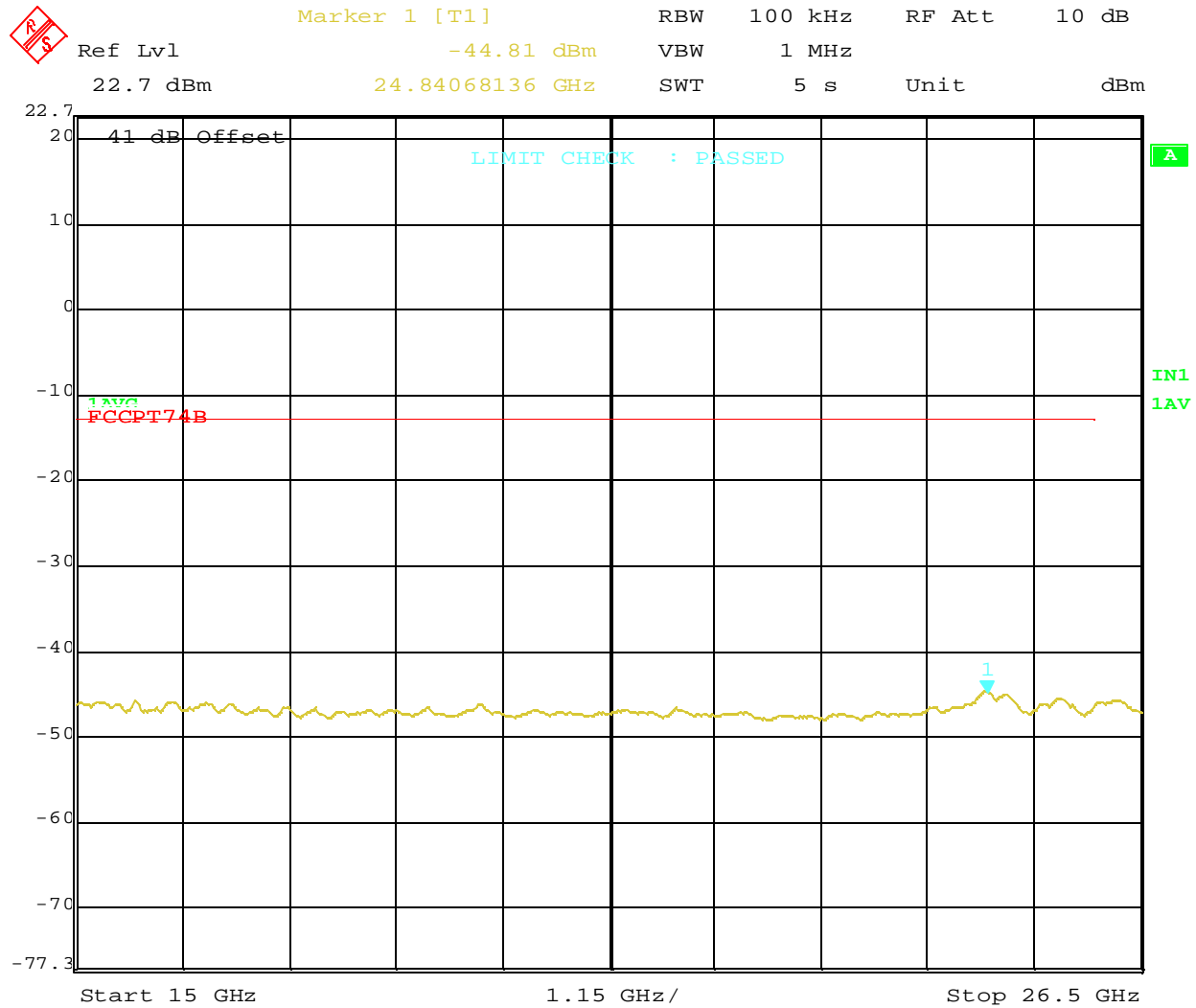
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Nemko USA Inc.

EQUIPMENT: Field Coder II (FCII)

REPORT NO.: 2007 065693 FCC

FCC ID: CNVCCII-9L

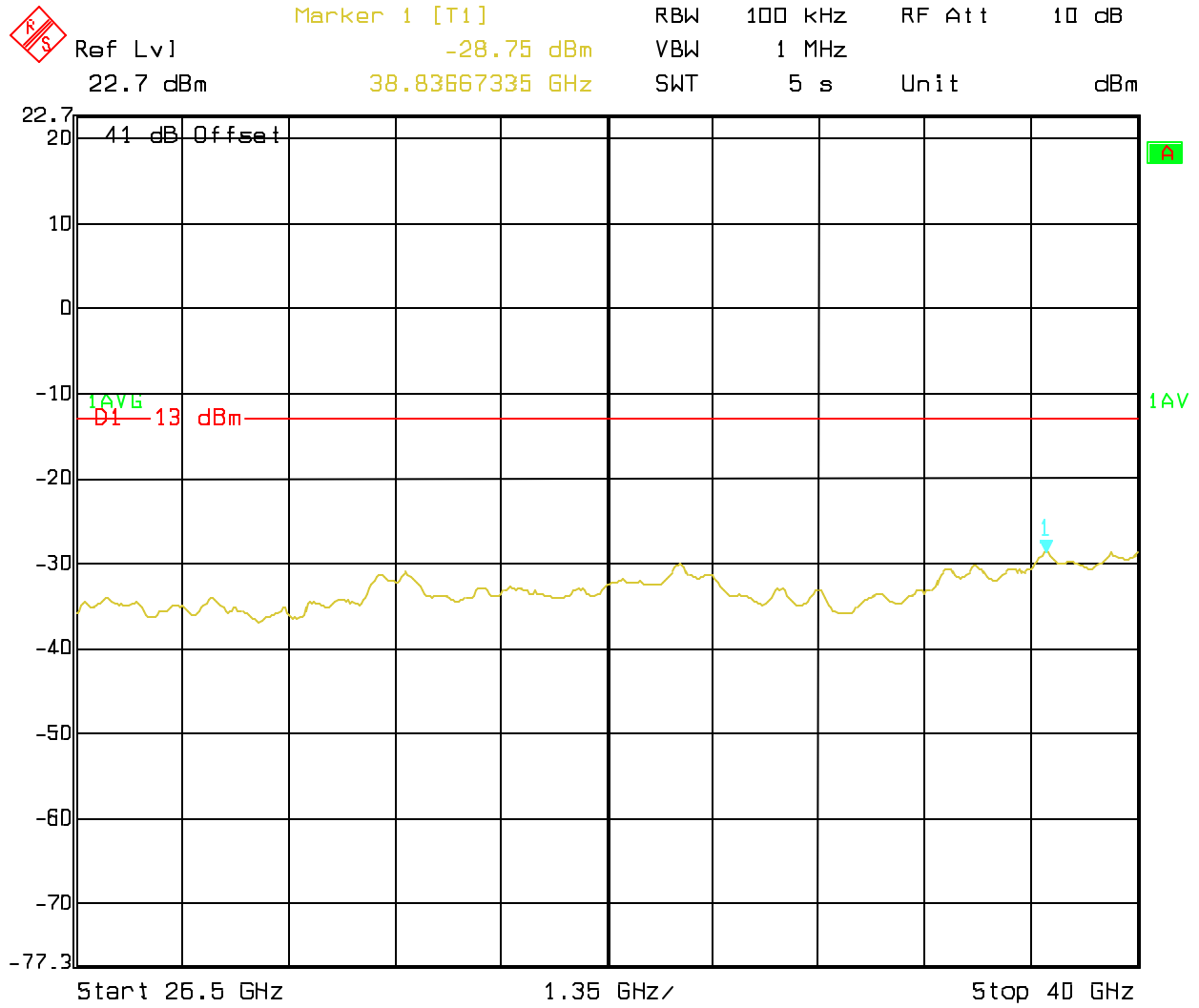


Date: 2.JUL.2007 13:06:03

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Date: 02.JUN.2007 16:05:09

**Section 7. Field Strength of Spurious**

Para. No.: 2.1053

<b>Test Performed By: Ferdinand Custodio</b>	<b>Date of Test: 06-27-2007</b>
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**Minimum Standard:** Part 74.637

**Test Results:** EUT Complies. Emissions were searched from 30 MHz to 40 GHz with the antenna port terminated into a 50Ohm load. No spurious emissions level within 20dB of the limit was observed. All emissions measured were proved by substitution method.

**Test Data:** See attached tables.

Quasi-peak measurements with a RBW =VBW = 100 kHz below 1GHz otherwise 1MHz.

Measured Frequency (MHz)	Antenna Polarization (H/V)	Meter Reading (dBuV)
64.18	V	27
69.96	V	28.5
120	V	19.9
219.4	H	19.7

**Results—Substitution Method**

Target Frequency	Target Level (dBuV/m)	Antenna Gain (dipole)	Cable Loss	Signal Generator (dBm)	Total (EIRP) dBm	Specs (dBm)	Margin (dBm)
64.18	27	0	1	-59.88	-60.88	-13	-47.88
69.96	28.5	0	1	-58.38	-59.38	-13	-46.38
120	19.9	0	1	-78.5	-79.5	-13	-66.5
219.4	19.7	0	1	-73.52	-74.52	-13	-61.52

Location: South OATS, T = 27°C, 47% R.H. 3 meters

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EQUIPMENT: Field Coder II (FCII)

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## Section 8. Frequency Stability

Para. No.: 2.1055

<b>Test Performed By: F.S.Custodio</b>	<b>Date of Test: 06-28-2007</b>
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**Minimum Standard:** 2.1055 Frequency Stability vs Temperature Variation and Power Supply Voltage Variation.

**Minimum Standard:** Part 74.661

**Test Results:** 20940 Hz difference which corresponds to 3.2 ppm  
 Limit = 0.005 % = 50 ppm

### Measurement Data:

Part 2.1055 (-30°C to +50°C)		High Channel		
Spectrum Analyzer @ 100KHz RBW, 1MHZ VBW		Monitored Frequency: 6.5248978 GHz		
Worst case variation:		20940.0 Hz (>Set freq.)	*Red are negative numbers	
		20040.0 Hz (<Set freq.)		
Temp.Set Point	Time	85% of Vnom Frequency ? (GHz) Difference (GHz)	Vnom=15VDC Frequency ? (GHz) Difference (GHz)	115% of Vnom Frequency ? (GHz) Difference (GHz)
Temp.Actual				
-30 -29.9	8:30AM	6.52491874 0.000020940	6.52491874 0.000020940	6.52491874 0.000020940
-20 -20	9:30AM	6.52490123 0.000003430	6.52490123 0.000003430	6.52490123 0.000003430
-10 -9.9	10:30AM	6.52490156 0.000003760	6.52490156 0.000003760	6.52490156 0.000003760
0 0	11:30AM	6.5249002 0.000002400	6.5249002 0.000002400	6.5249002 0.000002400
10 10	12:30PM	6.5248998 0.000002000	6.5248998 0.000002000	6.5248998 0.000002000
20 20.1	1:30PM	6.5248978 0.000000000	6.5248978 0.000000000	6.5248978 0.000000000
30 30	2:30PM	6.5248891 0.000008700	6.5248891 0.000008700	6.5248891 0.000008700
40 39.9	3:30PM	6.5248821 0.000015700	6.5248821 0.000015700	6.5248821 0.000015700
50 49.9	4:30PM	6.5248776 0.000020040	6.5248776 0.000020040	6.5248776 0.000020040

**Nemko USA Inc.**

EQUIPMENT: Field Coder II (FCII)

REPORT NO.: 2007 065693 FCC

FCC ID: CNVCCII-9L

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**Section 9. Test Equipment List**

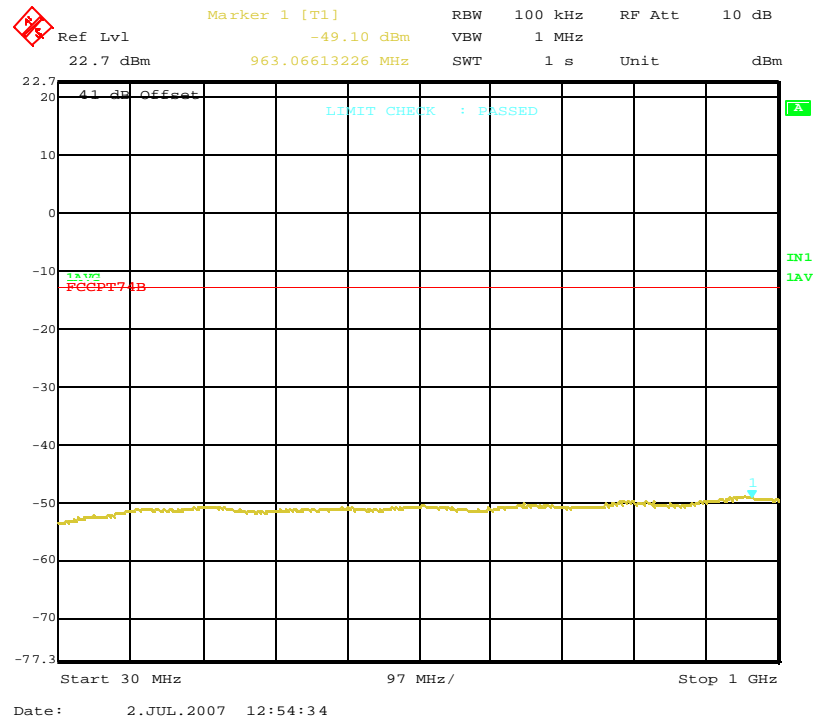
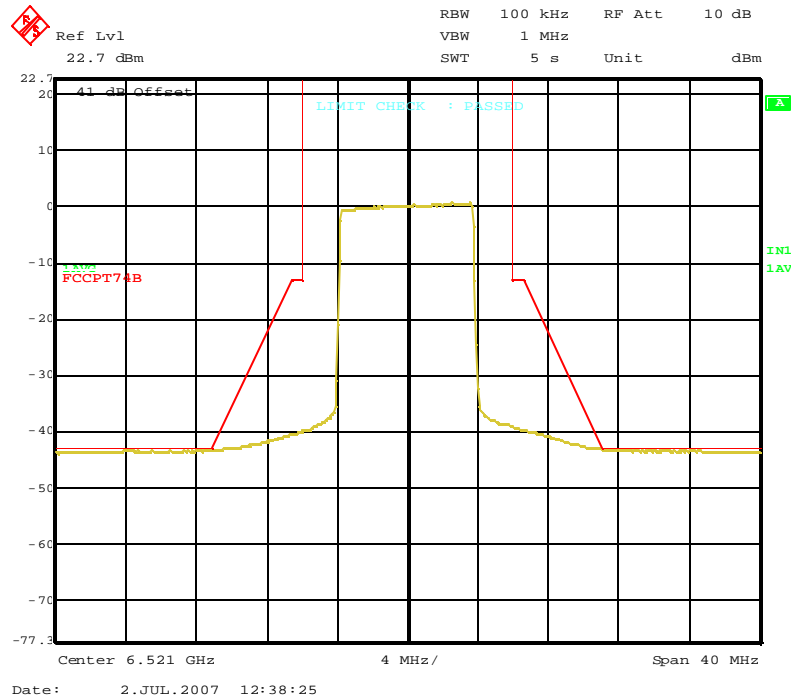
Nemko ID	Device	Manufacturer	Model	Serial Number	Cal Date	Cal Due Date
898	EMI Receiver	HP	8546A	3625A00348	1/18/2007	01/18/08
899	RF Filter Section	HP	85460A	3448A00288	1/18/2007	01/18/08
110	Antenna, LPA	Electrometrics	LPA-25	1217	12/18/06	12/18/07
897	Spectrum Analyzer	Rohde & Schwarz	FSP	837620/009	8/11/2006	8/11/2007
836	Signal Generator	HP	E8254A	US41140229	7/27/2006	07/27/07
835	Spectrum Analyzer	Rohde & Schwarz	RHDFSEK	829058/005	6/20/2007	06/20/08
N149	Environmental Chamber	Cincinnati Sub-Zero	ZPHS-32-2-2-H/AC	ZP0552665	5/30/2007	5/30/2008
765	Antenna Set, Dipole	EMCO	3121C	1214	6/27/06	6/27/07
529	Antenna, DRWG	EMCO	3115	2505	8/31/2006	08/31/07
915	EMI Test Receiver 20 Hz- 26.5	Rohde & Schwarz	1088.7490.26	837491/0002	2/6/2007	02/06/08
128	Antenna, Bicon	EMCO	3104	2882	11/10/2006	11/10/07

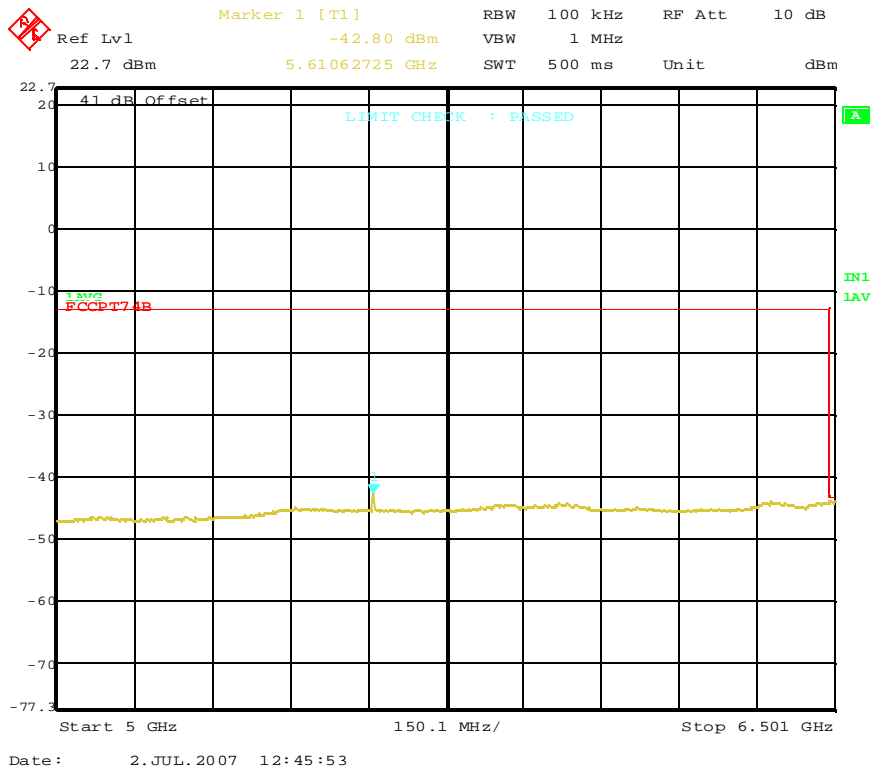
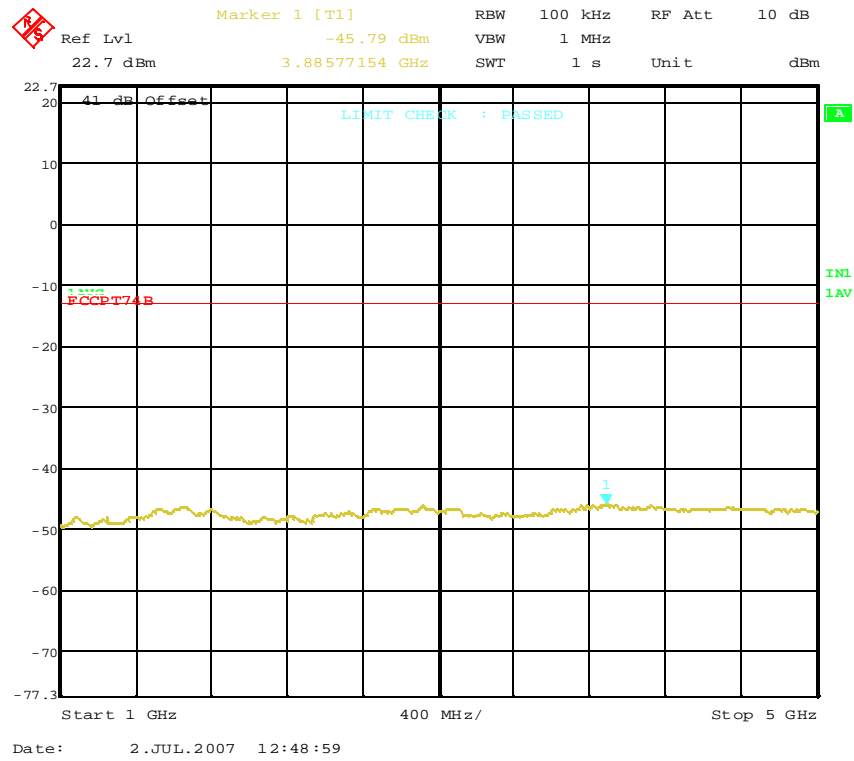


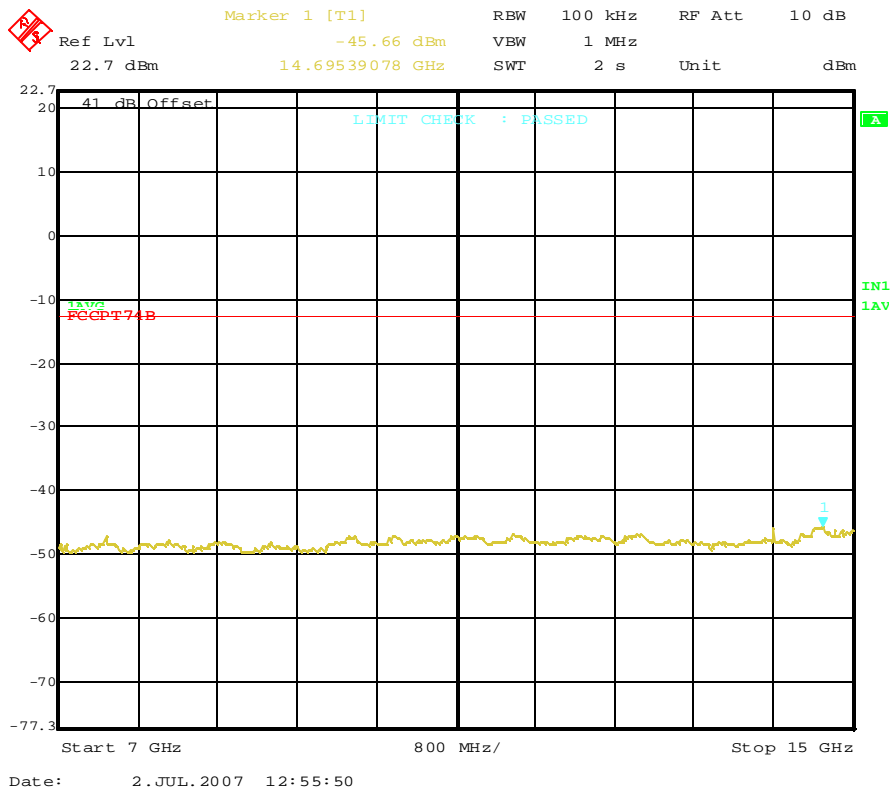
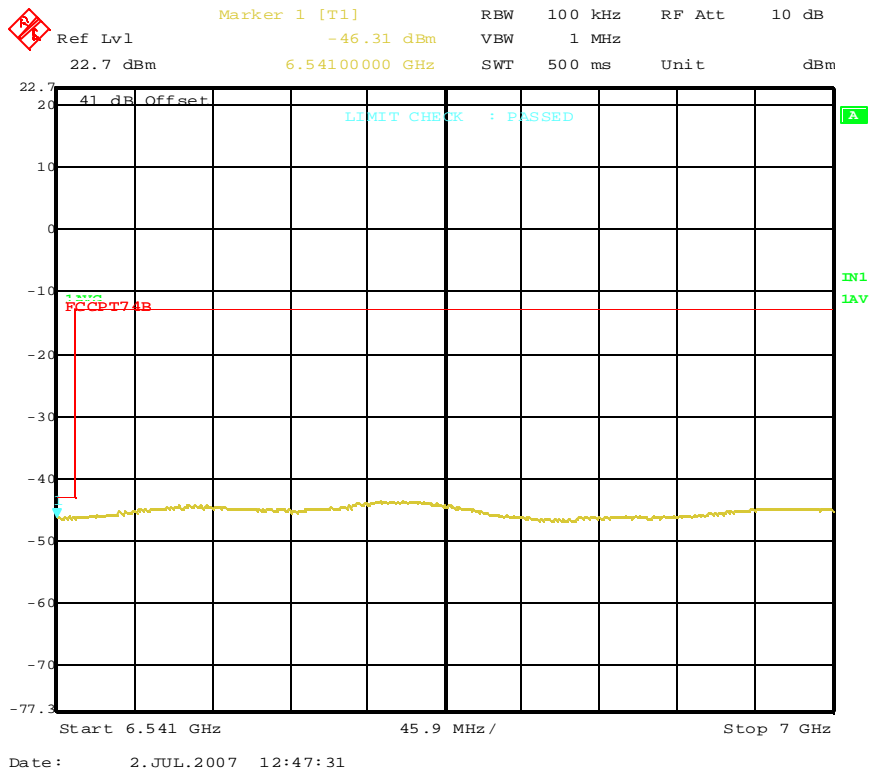
Appendix A.

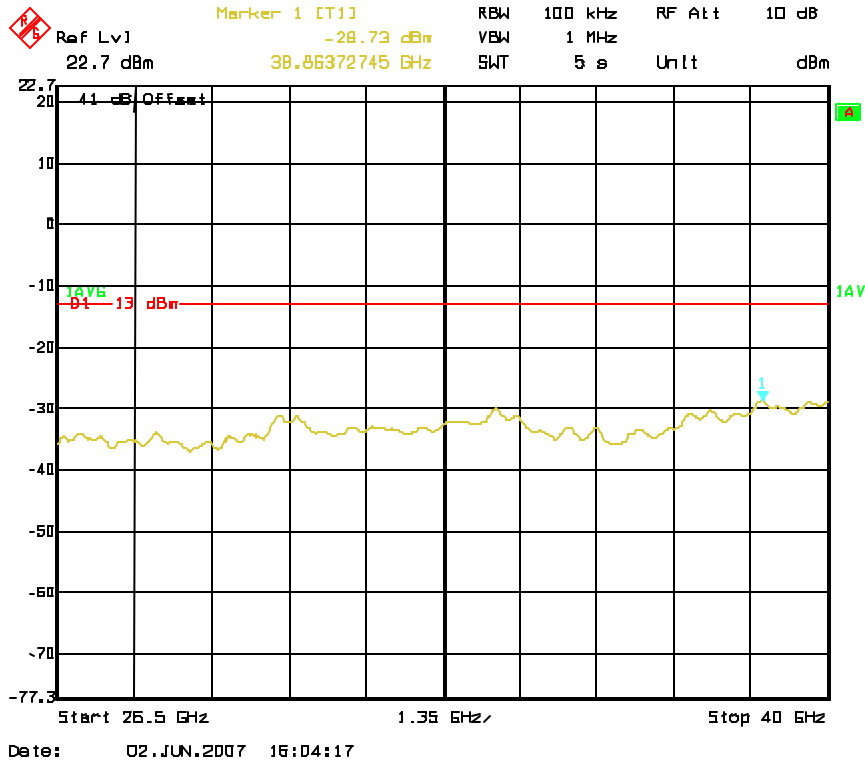
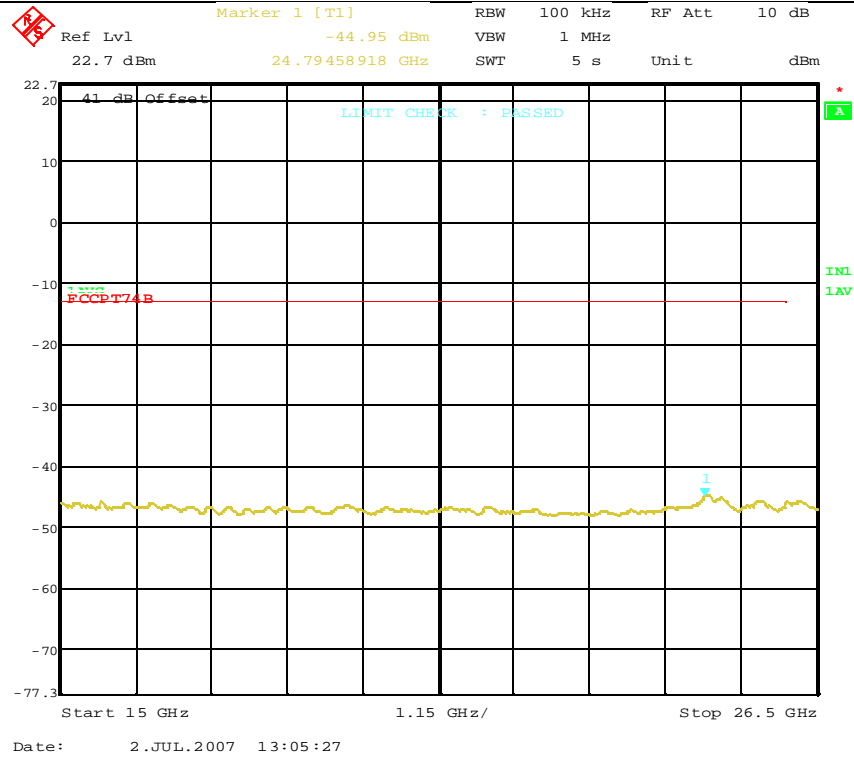
Appendix A. Spurious Emissions At Antenna Terminals

High Channel (6521MHz) QPSK









High Channel (6521MHz) 16QAM

