

FCC CDMA REPORT

Certification

Applicant Name:
Telit Communications S.p.A.**Address:**
Viale Stazione di Prosecco 5/b Trieste 34010 Italy**Date of Issue:**

July 21, 2015

Test Site/Location:HCT CO., LTD., 74, Seoicheon-ro 578beon-gil,
Majang-myeon, Icheon-si, Gyeonggi-do, Korea**Report No.:** HCT-R-1506-F067-1**HCT FRN:** 0005866421**FCC ID:** RI7DE921**APPLICANT:** Telit Communications S.p.A.**FCC Model(s):** DE921
EUT Type: CDMA Module
FCC Rule Part(s): §90.691
FCC Classification: PCS Licensed Transmitter (PCB)

Mode	Tx Frequency (MHz)	Emission Designator	Conducted output power	
			Max. Power (W)	Max. Power (dBm)
CDMA	817.90-822.75	1M28F9W	0.279	24.45
CDMA EVDO_Rev.0		1M28F9W	0.258	24.11
CDMA EVDO_Rev.A		1M28F9W	0.259	24.13

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)



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Approved by
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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1506-F067	July 15, 2015	- First Approval Report
HCT-R-1506-F067-1	July 21, 2015	-Revised the Conducted power table on Page.1

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name: Telit Communications S.p.A.

Address: Viale Stazione di Prosecco 5/b Trieste 34010 Italy

FCC ID: RI7DE921

Application Type: Certification

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): §90.691

EUT Type: CDMA Module

FCC Model(s): DE921

Tx Frequency: 817.90 — 822.75 MHz (CDMA)

Conducted Output Power: 0.279 W CDMA (24.45 dBm)/ 0.258 W CDMA EVDO_Rev.0 (24.11 dBm)
/ 0.259 W CDMA EVDO_Rev.A (24.13 dBm)

Emission Designator(s): 1M28F9W (CDMA)/ 1M28F9W (CDMA EVDO_Rev.0)/ 1M28F9W (CDMA EVDO_Rev.A)

Date(s) of Tests: June 08, 2015 ~ July 15, 2015

Antenna Specification Manufacturer: Wilson Electronics
Antenna type: General Vehicular External Antenna
Peak Gain: 5.12 dBi

2. INTRODUCTION

2.1. EUT DESCRIPTION

The Telit Communications S.p.A.DE921CDMA Module consists of Cellular CDMA, EVDO, EVDO_Rev.0 and EVDO_Rev.A

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the **74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.**

3. DESCRIPTION OF TESTS

3.1 ERP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-D-2010 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using RMS detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_{d(dBm)} = P_{g(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dB)}$$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

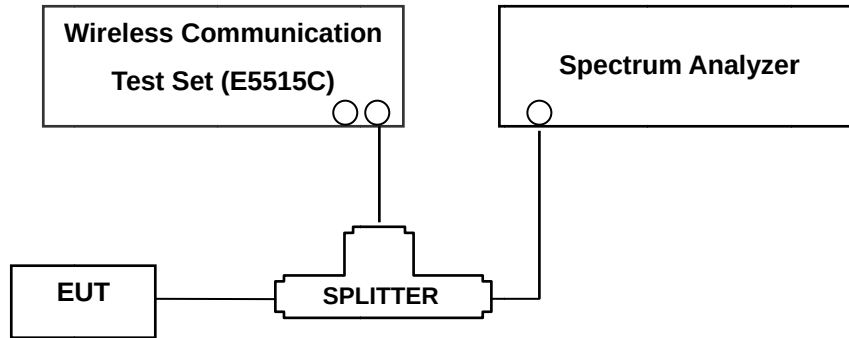
Radiated spurious emissions

1. Frequency Range : 30 MHz ~ 10th Harmonics of highest channel fundamental frequency.
2. The EUT was setup to maximum output power. The 100 kHz RBW was used to scan from 30 MHz to 1 GHz. Also, the 1 MHz RBW was used to scan from 1 GHz to 10 GHz(Cellular CDMA). The high, low and a middle channel were tested for out of band measurements.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

3.2 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 4.2..

The EUT makes a call to the communication simulator. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational range.)

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

3.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The EUT was setup to maximum output power at its lowest channel. The Resolution BW of the analyzer is set to <1 % of the emission bandwidth to show compliance with the – 13 dBm limit, in the 1 MHz bands immediately outside and adjacent to the edge of the frequency block. The 1 MHz RBW was used to scan from 10 MHz to 10 GHz. (GSM1900 Mode: 10 MHz to 20 GHz). A display line was placed at – 13 dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

- Band Edge Requirement : In the 1MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

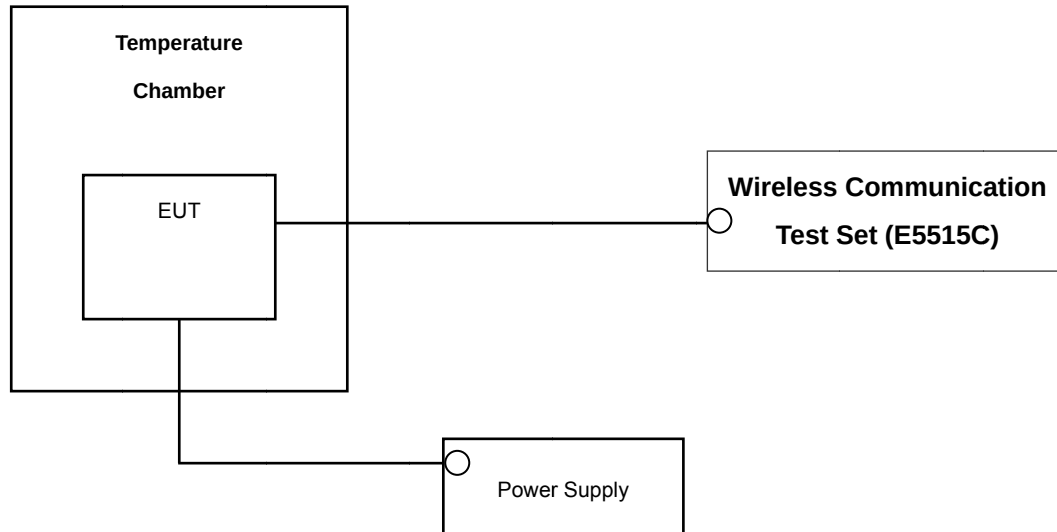
Note : This device was tested under all R.C.s and S.O.s and worst case is reported with 'All Up' power control bits.

NOTES: The analyzer plot offsets were determined by below conditions.

- For CDMA, total offset 26.7 dB = 20 dB attenuator + 6 dB Splitter + 0.7 dB RF cables,

3.4 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-D-2010 section 2.2.2.

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from battery end point to 100 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification — the frequency stability of the transmitter shall be maintained within $\pm 0.000\ 25\ \%$ ($\pm 2.5\ \text{ppm}$) of the center frequency (Cellular CDMA).

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

NOTE: The EUT is tested down to the battery endpoint.

Note : This device was tested under all R.C.s and S.O.s and worst case is reported with ‘All Up’ power control bits.

4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	N1921A/ Power Sensor	MY45241059	Annual	07/09/2016
Agilent	N1911A/ Power Meter	MY45100523	Annual	07/09/2016
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/04/2015
Wainwright	WHK1.2/15G-10EF/H.P.F	4	Annual	04/27/2016
Wainwright	WHK3.3/18G-10EF/H.P.F	2	Annual	04/27/2016
Hewlett Packard	11667B / Power Splitter	10545	Annual	02/16/2016
Hewlett Packard	11667B / Power Splitter	11275	Annual	04/29/2016
Digital	EP-3010/ Power Supply	3110117	Annual	10/29/2015
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/23/2017
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	03/23/2017
Korea Engineering	KR-1005L / Chamber	KRAC05063-3CH	Annual	10/29/2015
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	09/01/2016
Schwarzbeck	BBHA 9120D/ Horn Antenna	1299	Biennial	05/15/2017
Schwarzbeck	BBHA 9170/ Horn Antenna(15~40GHz)	BBHA9170342	Biennial	04/30/2017
Schwarzbeck	BBHA 9170/ Horn Antenna(15~35GHz)	BBHA9170124	Biennial	3/23/2017
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	03/18/2016
WEINSCHTEL	ATTENUATOR	BR0592	Annual	10/22/2015
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/04/2016
Agilent	8960 (E5515C)/ Base Station	MY48360222	Annual	08/26/2015
Agilent	N9020A/Spectrum Analyzer	MY51110085	Annual	06/30/2016

5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1051	Occupied Bandwidth	N/A	CONDUCTED	PASS
2.1051, 90.691	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	$< 50 + 10\log_{10} (P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5KHz of Block Edge		PASS
2.1046	Conducted Output Power	N/A		PASS
2.1055, 90.213	Frequency stability / variation of ambient temperature	$< 2.5 \text{ ppm}$		PASS
90.635	Effective Radiated Power	$< 100 \text{ Watts max. ERP}$	RADIATED	PASS
2.1053, 90.691	Radiated Spurious and Harmonic Emissions	$< 43 + 10\log_{10} (P[\text{Watts}])$ for all out-of band emissions		PASS

6. SAMPLE CALCULATION

A. ERP Sample Calculation

Mode	Ch./ Freq.		Measured Level(dBm)	Substitute LEVEL(dBm)	Ant. Gain	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	573	820.33	-32.96	28.98	-10.61	0.88	V	0.056	17.49

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.
- 2) During the test , the turntable is rotated and the antenna height is also varied from 1 to 4 meters until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (ERP).

B. Emission Designator

CDMA Emission Designator

Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz

(Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

EVDO Emission Designator

Emission Designator = 1M27F9W

CDMA BW = 1.27 MHz

(Measured at the 99% power bandwidth)

F = Frequency Modulation

9 = Composite Digital Info

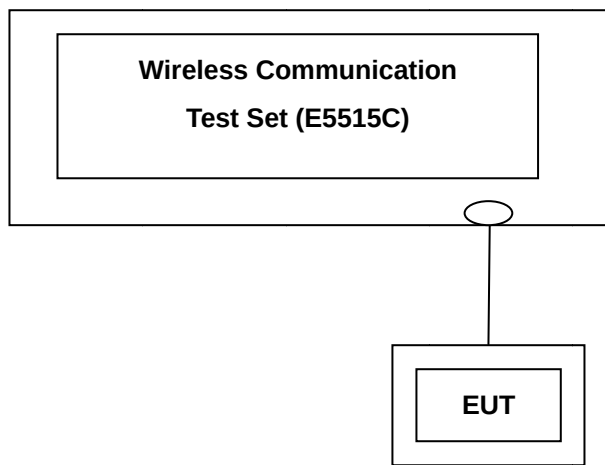
W = Combination (Audio/Data)

7. TEST DATA

7.1 CONDUCTED OUTPUT POWER

Conducted Output Power was tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r02, October 17, 2014, Section 5.2.

A base station simulator was used to establish communication with The EUT. The base station simulator parameters were set to produce the maximum power from the EUT. This device was tested under all configurations and the highest power is reported. Conducted Output Powers of EUT are reported below.



Band	Channel	SO2	SO2	SO55	SO55	TDSO	1xEVDO Rev.0	1xEVDO Rev.0	1xEVDO Rev.A	1xEVDO Rev.A
		RC1 (dBm)	RC3 (dBm)	RC1 (dBm)	RC3 (dBm)	RC3 (dBm)	(FTAP) (dBm)	(RTAP) (dBm)	(FETAP) (dBm)	(RETAP) (dBm)
CDMA	476	24.45	24.41	24.43	24.41	24.43	24.11	24.09	24.04	24.13
	573	24.38	24.34	24.35	24.35	24.35	23.95	24.02	24.03	23.95
	670	24.33	24.31	24.32	24.29	24.31	23.91	23.95	23.97	23.93

(Maximum Conducted Output Powers)

Note : Detecting mode is average.

7.2EFFECTIVE RADIATED POWER

(CDMA Mode)

Mode	Ch./ Freq.		Measured Level (dBm)	Substitute LEVEL (dBm)	Ant. Gain (dBd)	C.L	Pol.	ERP	
	channel	Freq.(MHz)						W	dBm
CDMA	476	817.90	-32.62	29.10	-10.61	0.87	V	0.058	17.62
	573	820.33	-32.97	28.97	-10.61	0.88	V	0.056	17.48
	670	822.75	-33.66	28.31	-10.59	0.88	V	0.048	16.84
EVDO_Rev.0	476	817.90	-32.68	29.04	-10.61	0.87	V	0.057	17.56
	573	820.33	-33.24	28.70	-10.61	0.88	V	0.053	17.21
	670	822.75	-34.03	27.94	-10.59	0.88	V	0.044	16.47
EVDO_Rev.A	476	817.90	-32.80	28.92	-10.61	0.87	V	0.055	17.44
	573	820.33	-33.27	28.67	-10.61	0.88	V	0.052	17.18
	670	822.75	-34.06	27.91	-10.59	0.88	V	0.044	16.44

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW $\geq$ OBW, VBW $\geq$ 3 x RBW. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

This device was tested under all configurations and the highest power is reported. Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is in y plane in CDMA mode, CDMA EVDO_Rev.0 mode and CDMA EVDO_Rev.A mode. Also worst case of detecting Antenna is in vertical polarization in CDMA mode, CDMA EVDO_Rev.0 mode and CDMA EVDO_Rev.A mode.

7.3 RADIATED SPURIOUS EMISSIONS

7.3.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

☐ MEASURED OUTPUT POWER: 17.62 dBm = 0.058 W
☐ MODULATION SIGNAL: CDMA
☐ DISTANCE: 3 meters
☐ LIMIT: $43 + 10 \log_{10} (W) =$ 30.62 dBc

Ch.	Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBd)	Substitute Level [dBm]	C.L	Pol.	ERP (dBm)	dBc
476 (817.9)	1,635.80	-45.72	9.55	-53.57	1.28	H	-45.30	62.92
	2,453.70	-53.74	10.48	-58.84	1.60	V	-49.96	67.58
	3,271.60	-49.80	12.05	-54.59	1.83	V	-44.37	61.99
573 (820.3)	1,640.65	-45.91	9.63	-53.97	1.28	H	-45.62	63.24
	2,460.98	-56.74	10.54	-61.84	1.62	V	-52.92	70.54
	3,281.30	-49.39	12.11	-54.09	1.82	V	-43.80	61.42
670 (822.8)	1,645.50	-43.55	9.71	-51.59	1.29	H	-43.17	60.79
	2,468.25	-52.50	10.54	-57.68	1.60	V	-48.74	66.36
	3,291.00	-48.51	12.18	-53.61	1.84	V	-43.27	60.89

NOTES: 1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA/EIA-603-D-2010 June 24, 2010:
2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

7.4OCCUPIED BANDWIDTH

Band	Channel	Frequency(MHz)	Data (MHz)
CDMA	476	817.9	1.2810
	573	820.3	1.2760
	670	822.8	1.2756
CDMA EVDO_Rev.0	476	817.9	1.2689
	573	820.3	1.2762
	670	822.8	1.2710
CDMA EVDO_Rev.A	476	817.9	1.2779
	573	820.3	1.2715
	670	822.8	1.2705

- Plots of the EUT's Occupied Bandwidth are shown Page 19 ~ 23.

7.5CONDUCTED SPURIOUS EMISSIONS

Band	Channel	Frequency of Maximum Harmonic (GHz)	Maximum Data (dBm)
CDMA	476	3.175016	-31.661
	573	3.156130	-31.434
	670	6.125000	-32.356

- Plots of the EUT's Conducted Spurious Emissions are shown Page 29 ~ 32.

7.5.1 Band Edge

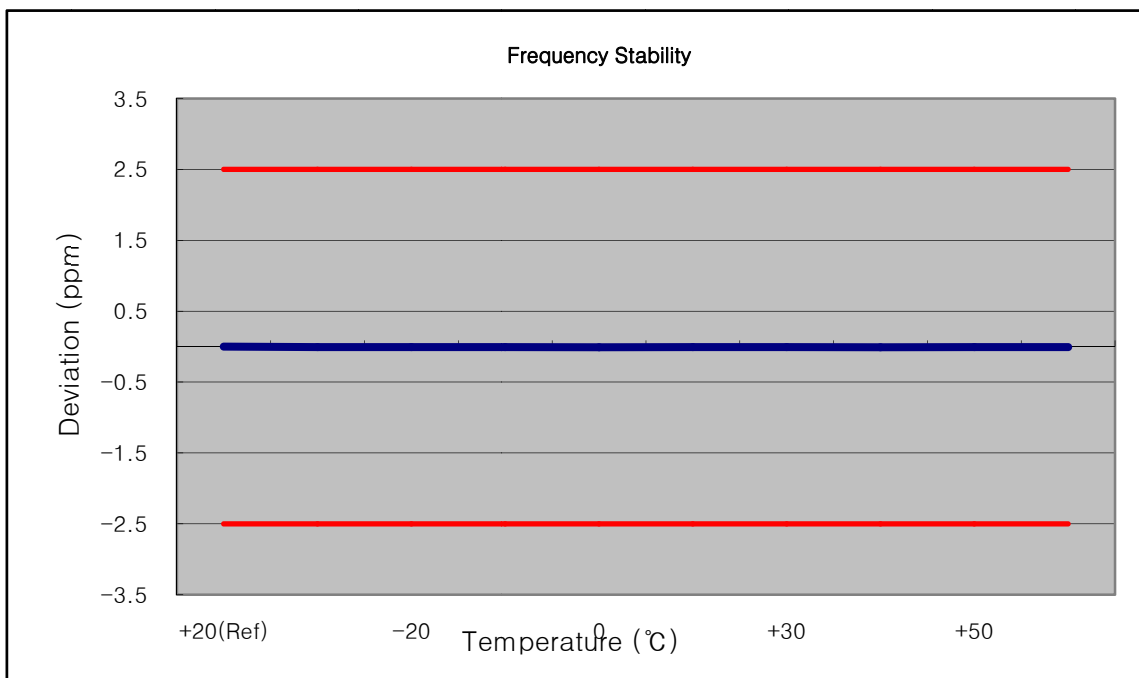
- Plots of the EUT's Band Edge are shown Page 23 ~ 29.

7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

7.6.1 RADIATED SPURIOUS EMISSIONS (CDMA Mode)

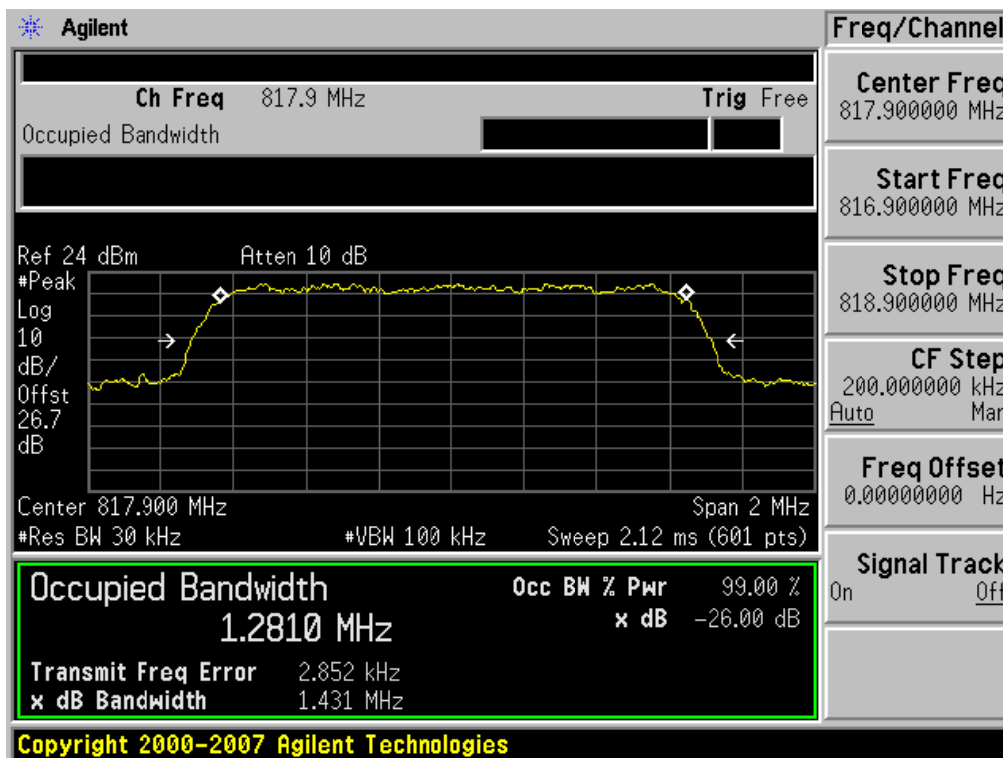
■ OPERATING FREQUENCY: 820.325,000 Hz
 ■ CHANNEL: 573
 ■ REFERENCE VOLTAGE: 3.80 VDC
 ■ DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.80	+20(Ref)	820 325 006	0	0.000 000	0.000
100%		-30	820 325 000	-5.78	-0.000 001	-0.007
100%		-20	820 325 001	-5.07	-0.000 001	-0.006
100%		-10	820 324 999	-6.38	-0.000 001	-0.008
100%		0	820 324 999	-6.52	-0.000 001	-0.008
100%		+10	820 325 000	-5.62	-0.000 001	-0.007
100%		+30	820 324 999	-6.45	-0.000 001	-0.008
100%		+40	820 324 999	-7.22	-0.000 001	-0.009
100%		+50	820 325 000	-5.48	-0.000 001	-0.007
Batt. Endpoint	3.23	+20	820 325 000	-6.18	-0.000 001	-0.008

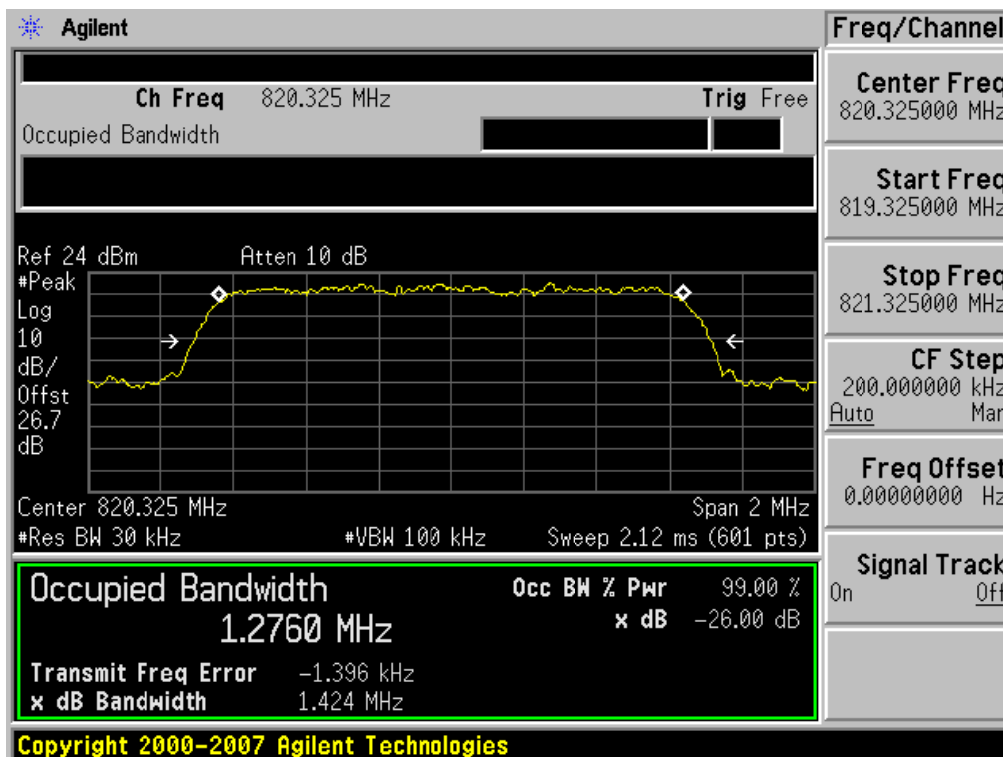


8. TEST PLOTS

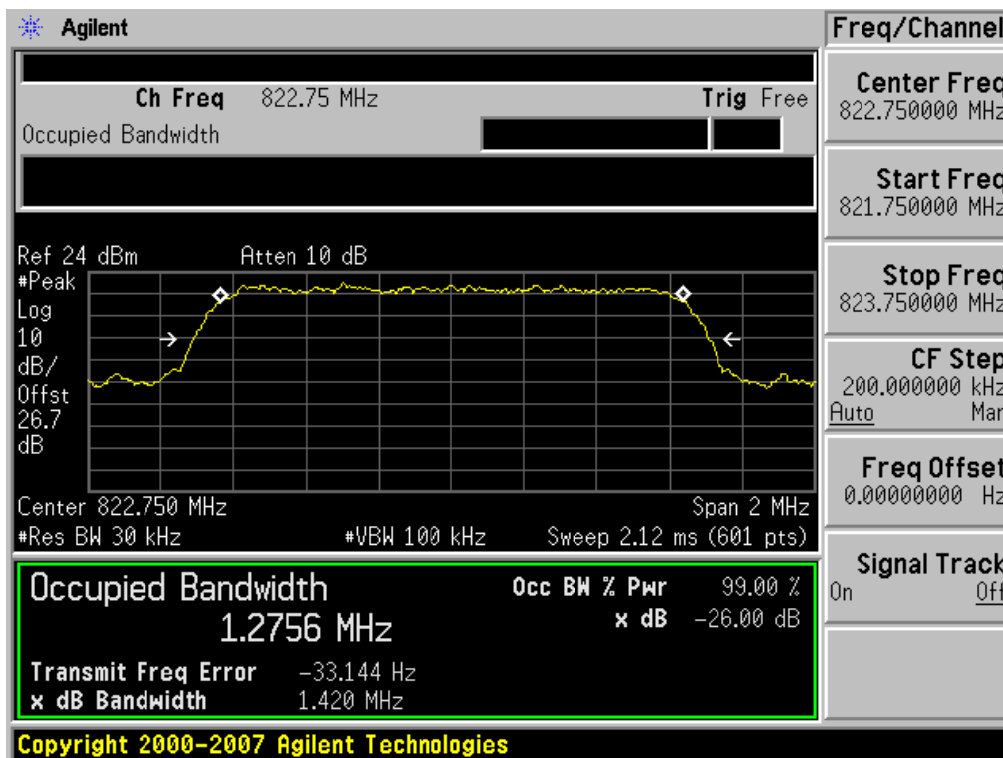
■ Secondary MODE (476 CH.) Occupied Bandwidth



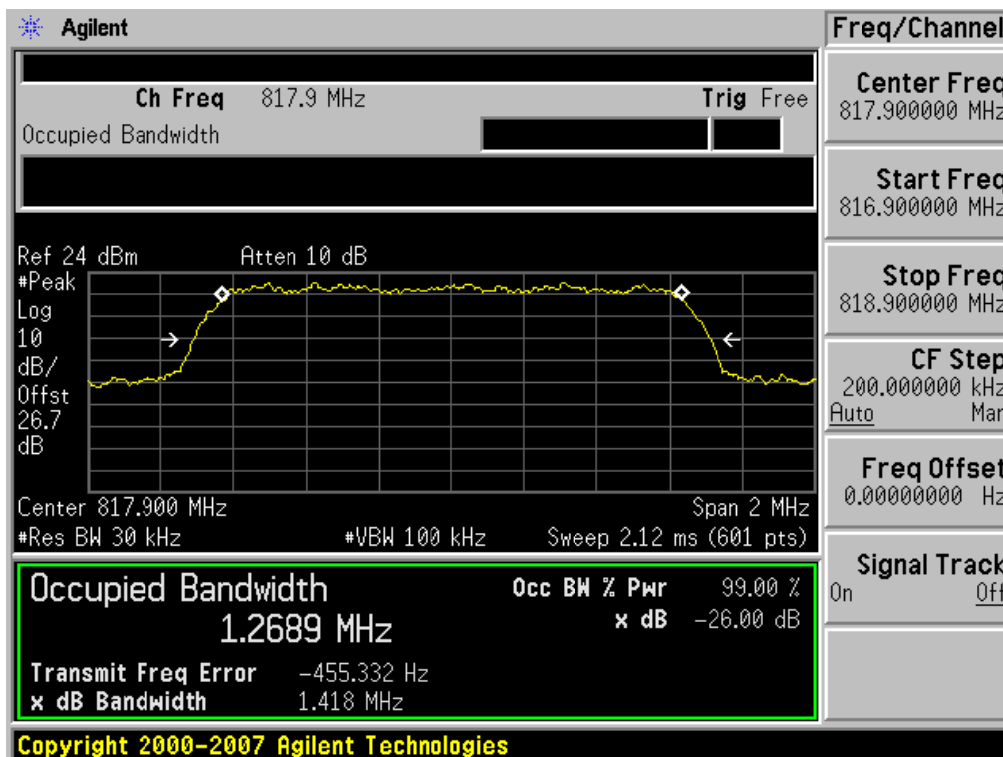
■ Secondary MODE (573 CH.) Occupied Bandwidth



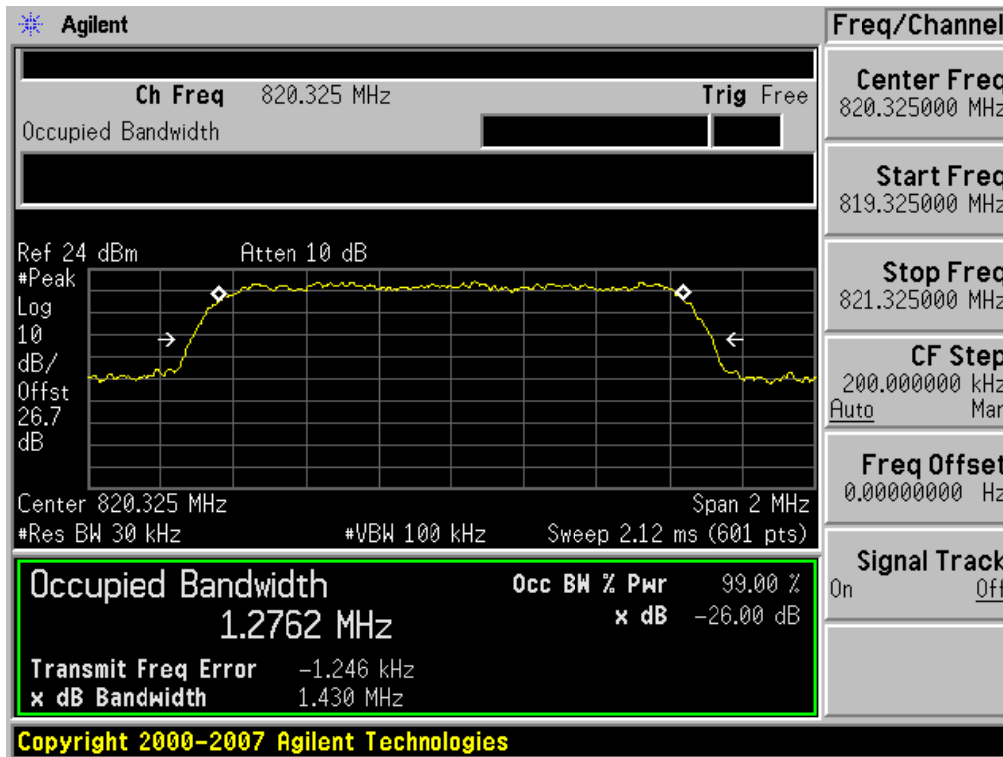
■ Secondary MODE (670 CH.) Occupied Bandwidth



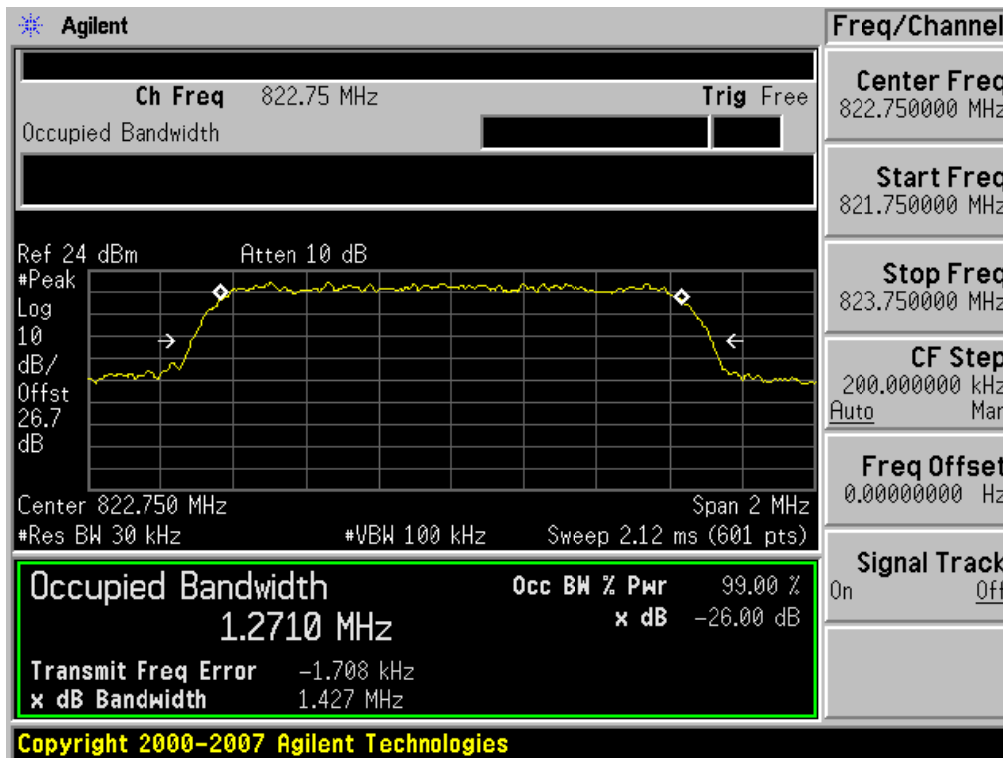
■ SecondaryEVDO_Rev.0MODE (476 CH.) Occupied Bandwidth



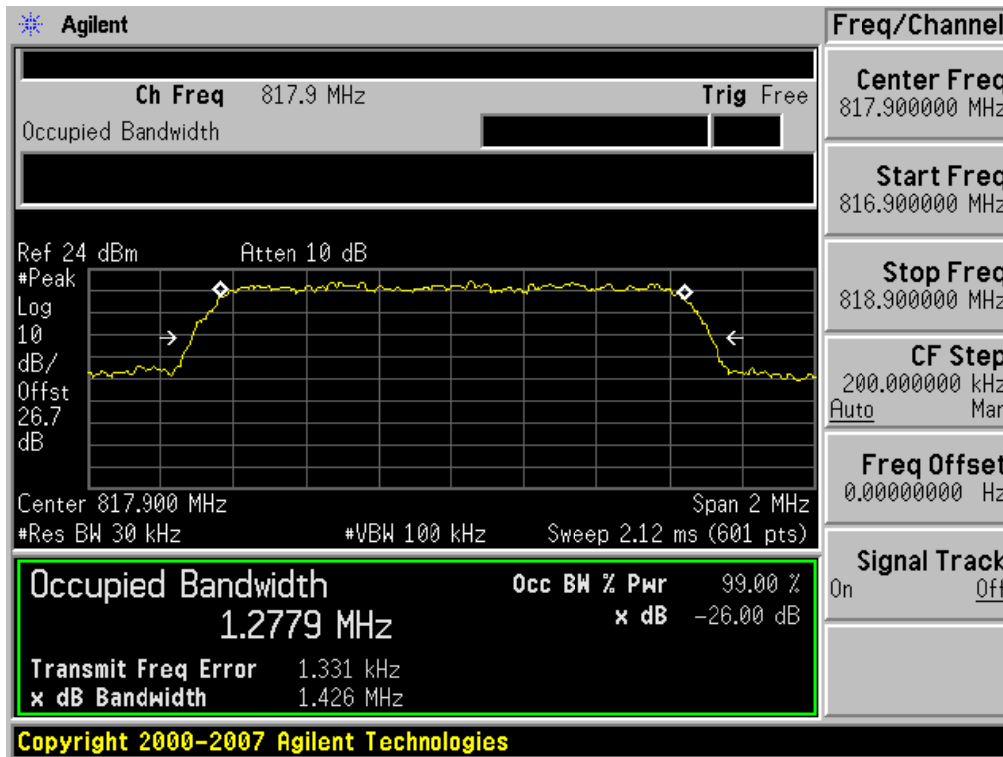
■ SecondaryEVDO_Rev.0MODE (573 CH.) Occupied Bandwidth



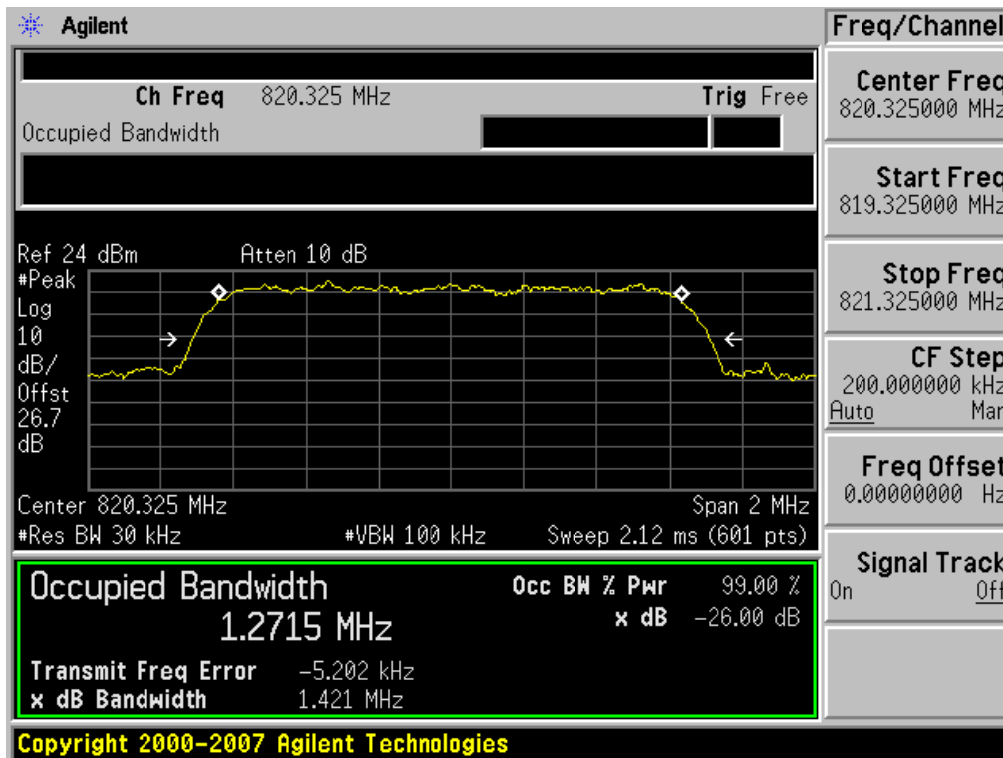
■ SecondaryEVDO_Rev.0MODE (670 CH.) Occupied Bandwidth



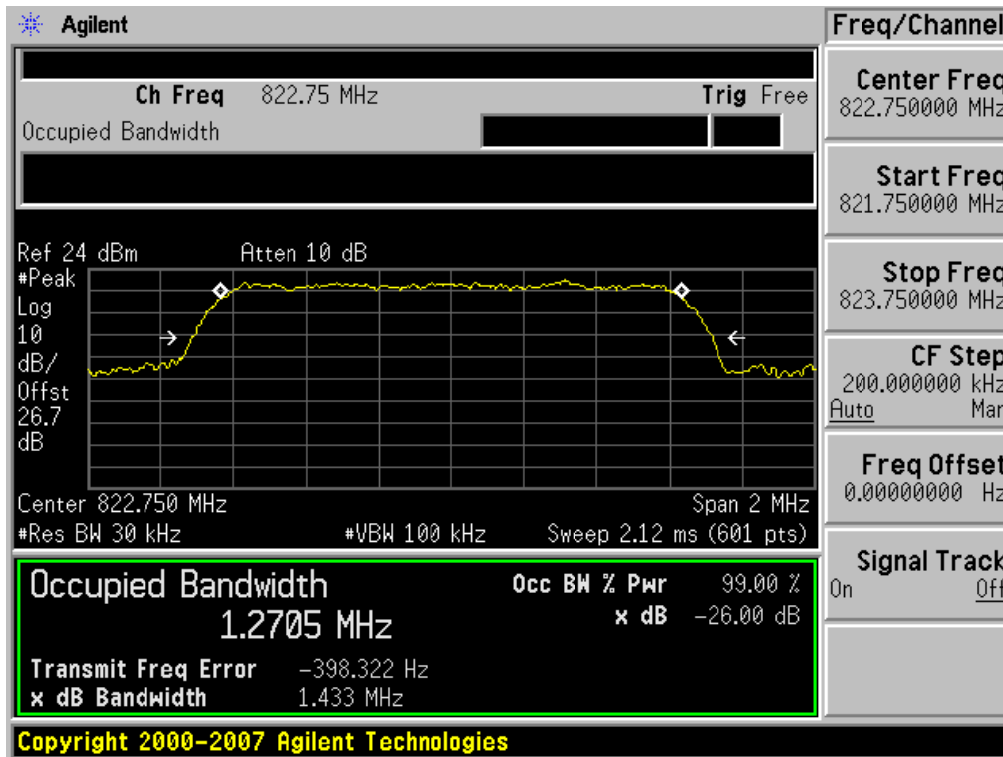
■ SecondaryEVDO_Rev.AMODE (476 CH.) Occupied Bandwidth



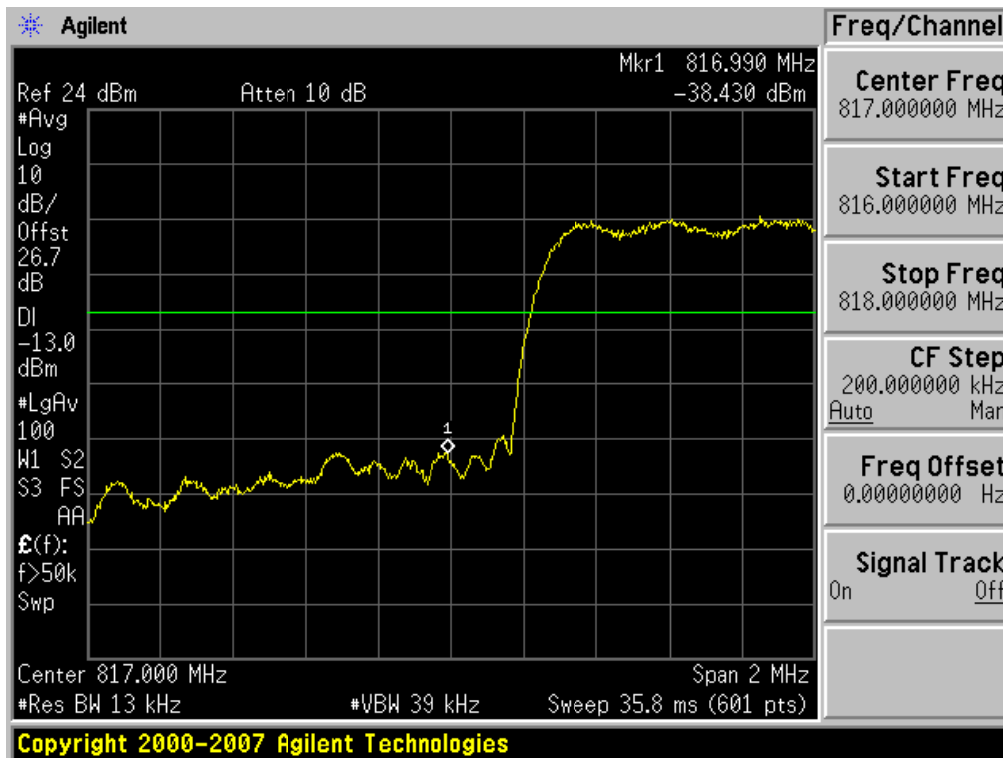
■ SecondaryEVDO_Rev.AMODE (573 CH.) Occupied Bandwidth



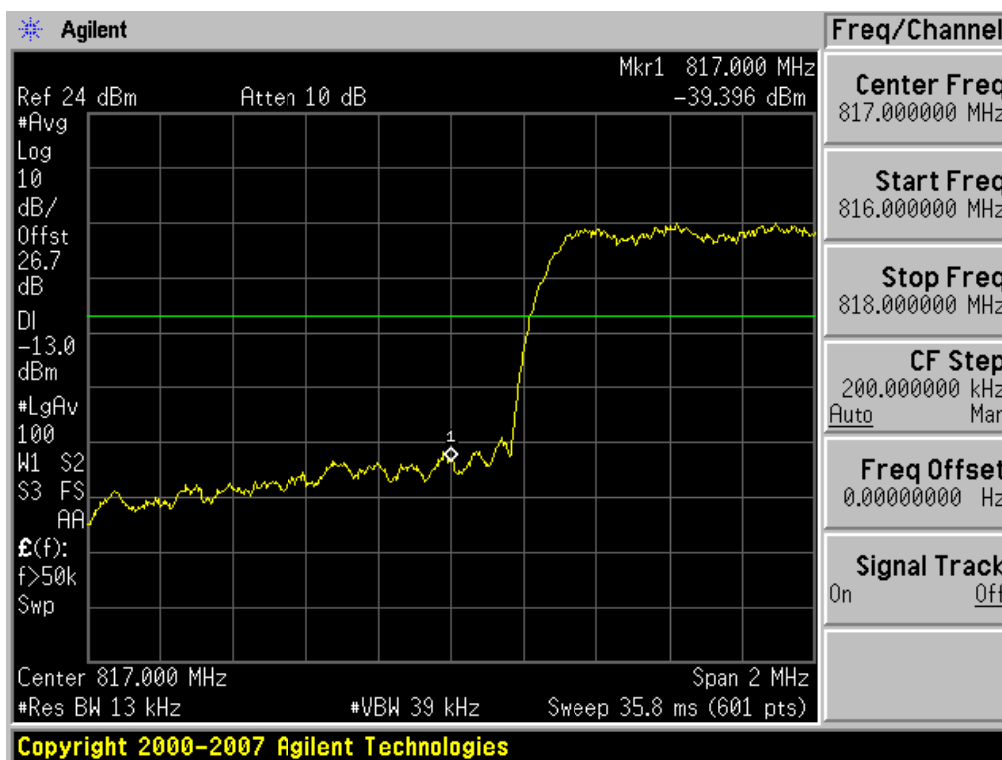
■ SecondaryEVDO_Rev.AMODE (670 CH.) Occupied Bandwidth



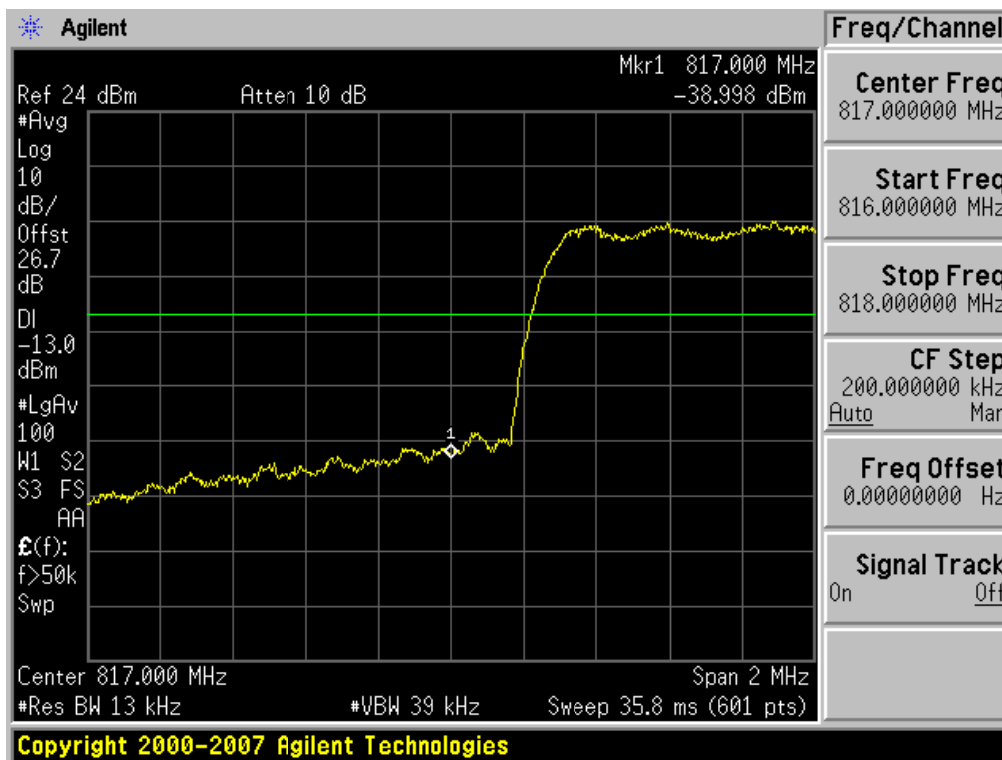
■ Secondary MODE (476 CH.) Block Edge



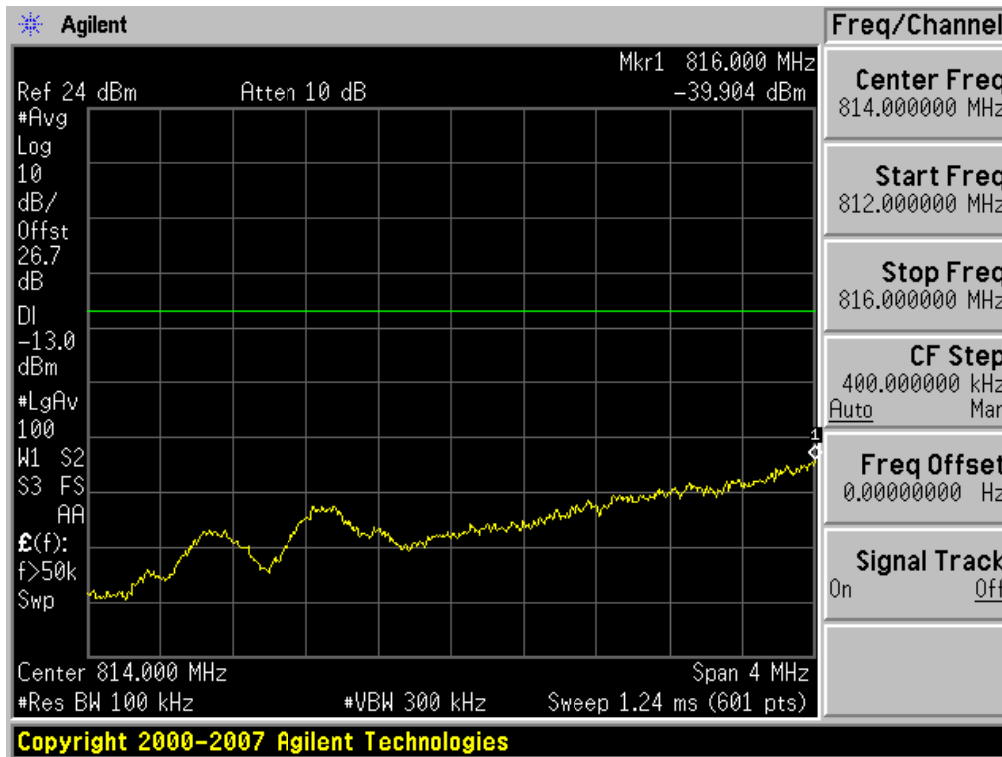
■ SecondaryEVDO_Rev.0 MODE (476 CH.) Block Edge



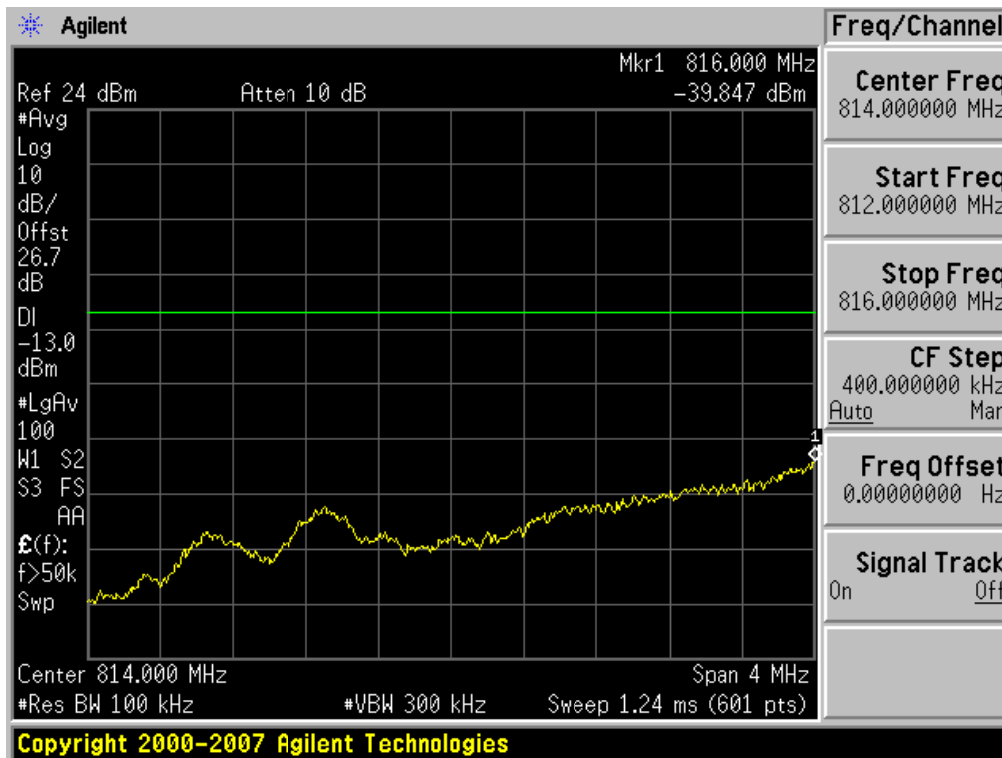
■ SecondaryEVDO_Rev.A MODE (476 CH.) Block Edge



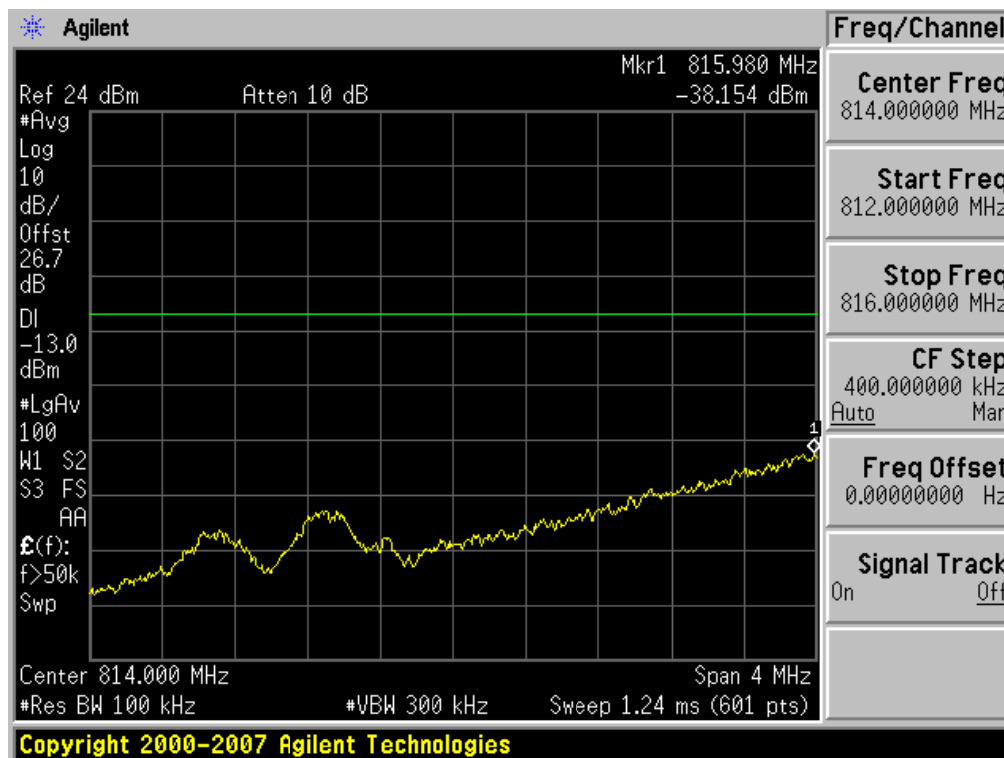
■ Secondary MODE (476 CH.) 4 MHz Span



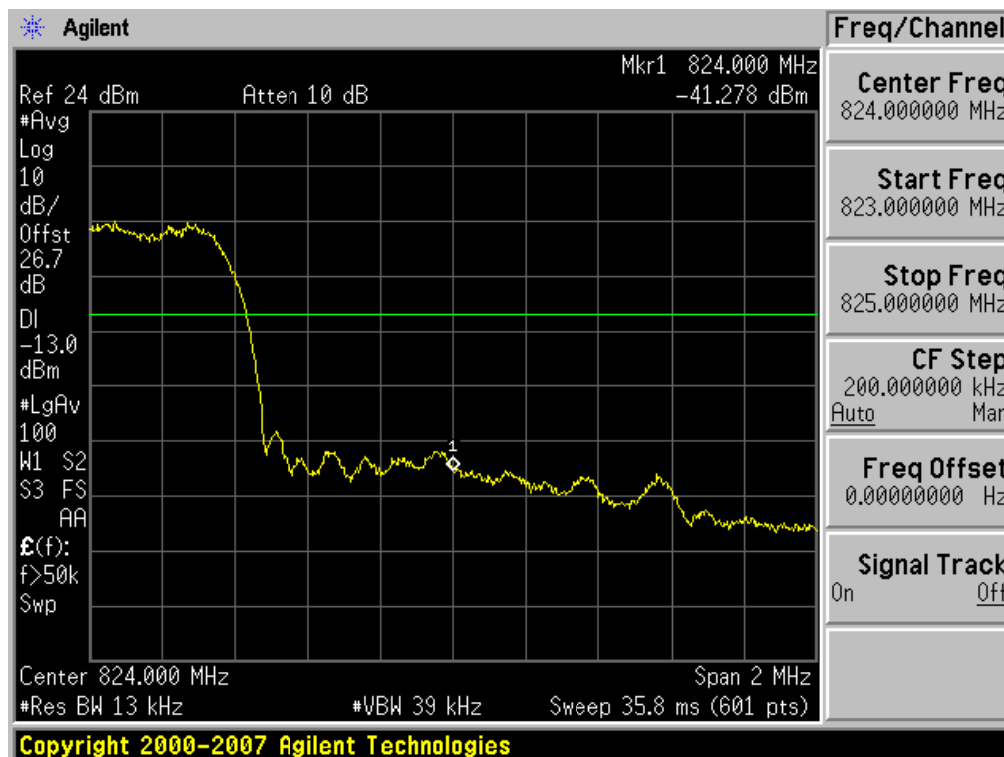
■ SecondaryEVDO_Rev.0MODE (476 CH.) 4 MHz Span



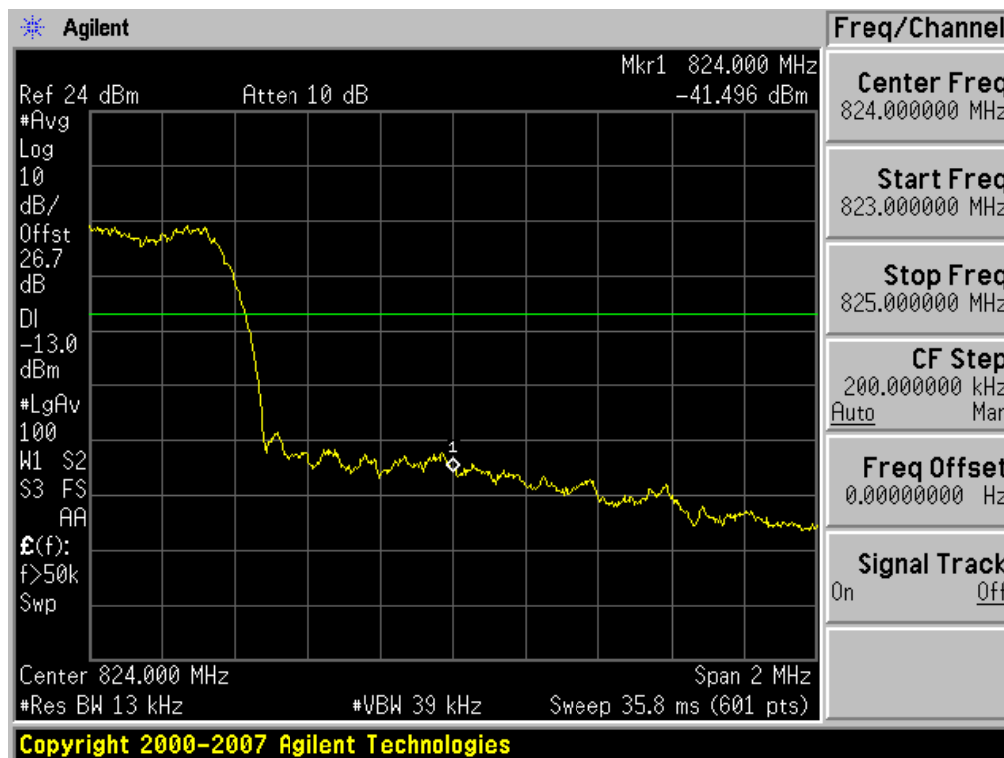
■ SecondaryEVDO_Rev.AMODE (476 CH.) 4 MHz Span



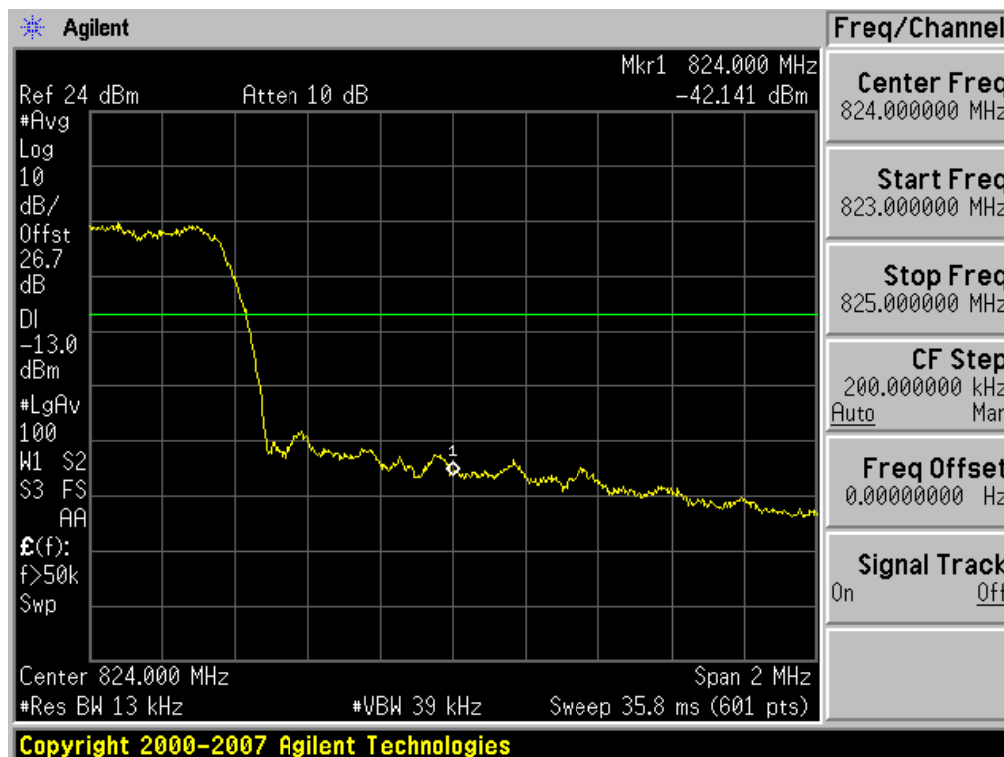
■ Secondary MODE (670 CH.) Block Edge



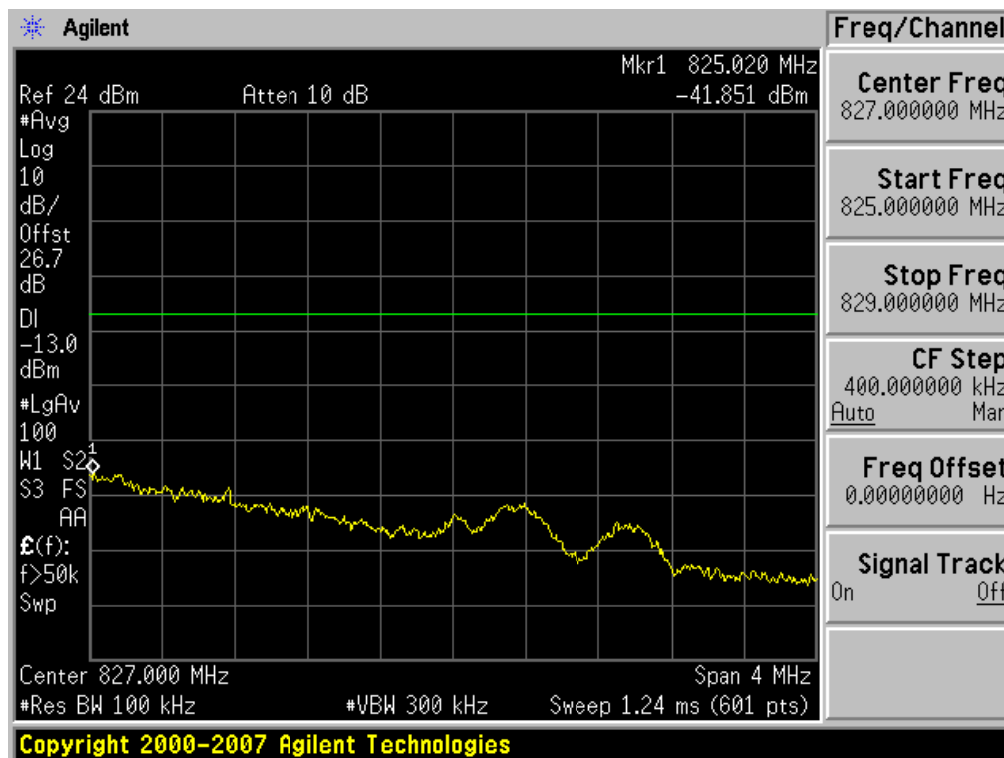
■ SecondaryEVDO_Rev.0 MODE (670 CH.) Block Edge



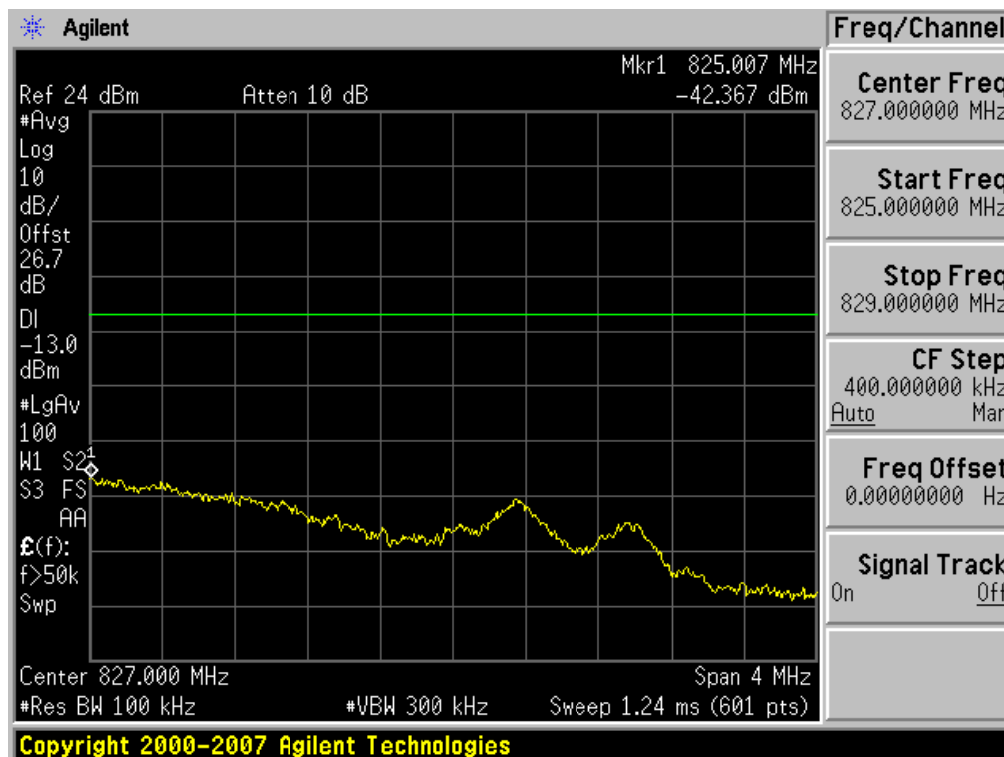
■ SecondaryEVDO_Rev.A MODE (670 CH.) Block Edge



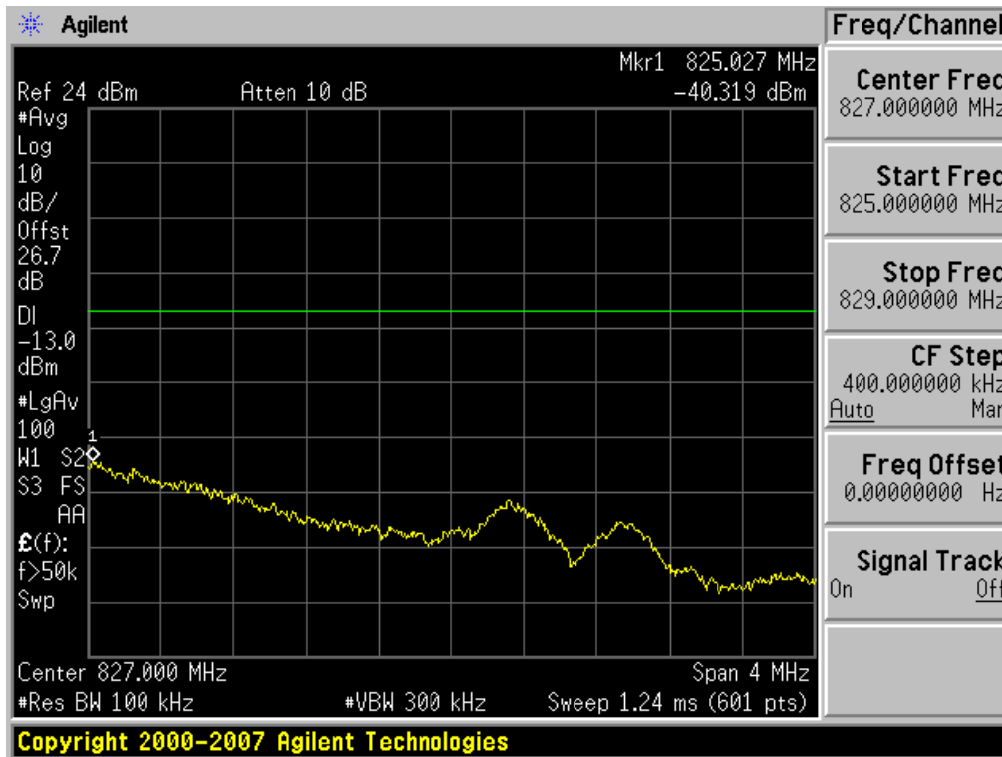
■ Secondary MODE (670 CH.) 4 MHz Span



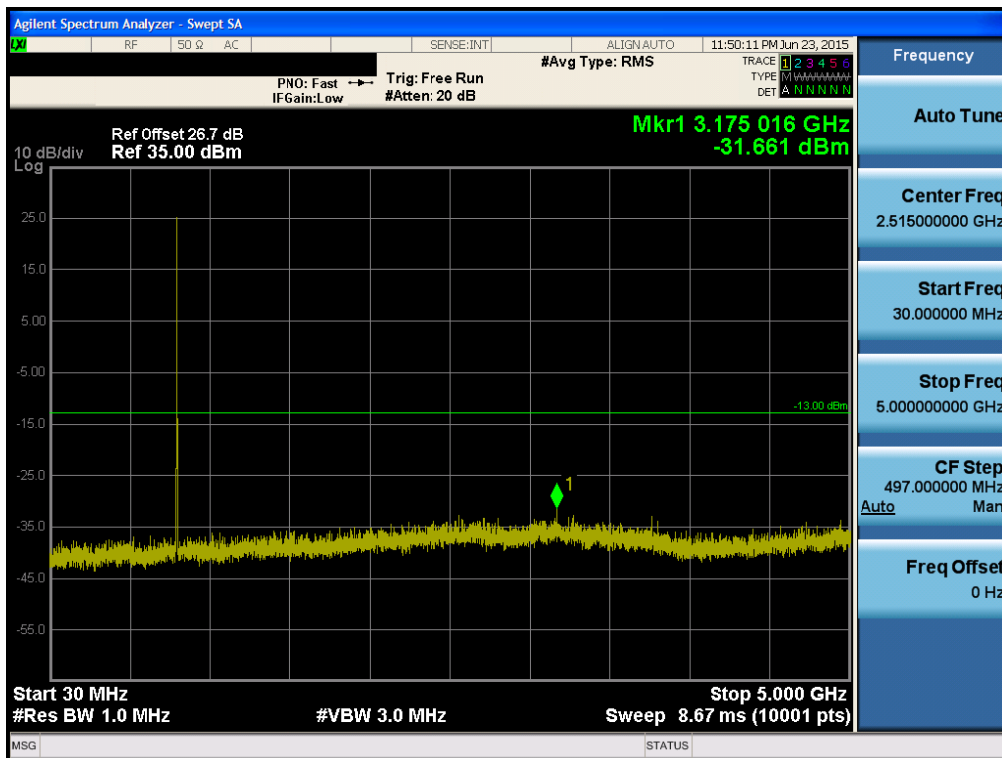
■ SecondaryEVDO_Rev.0MODE (670 CH.) 4 MHz Span



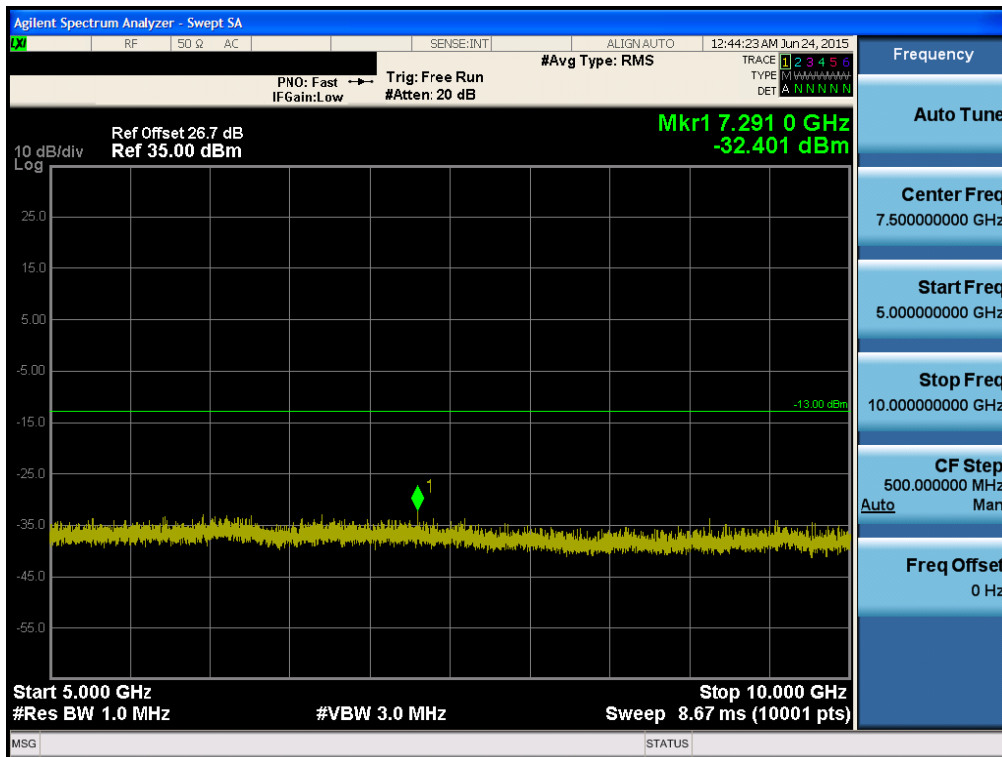
■ SecondaryEVDO_Rev.AMODE (670 CH.) 4 MHz Span



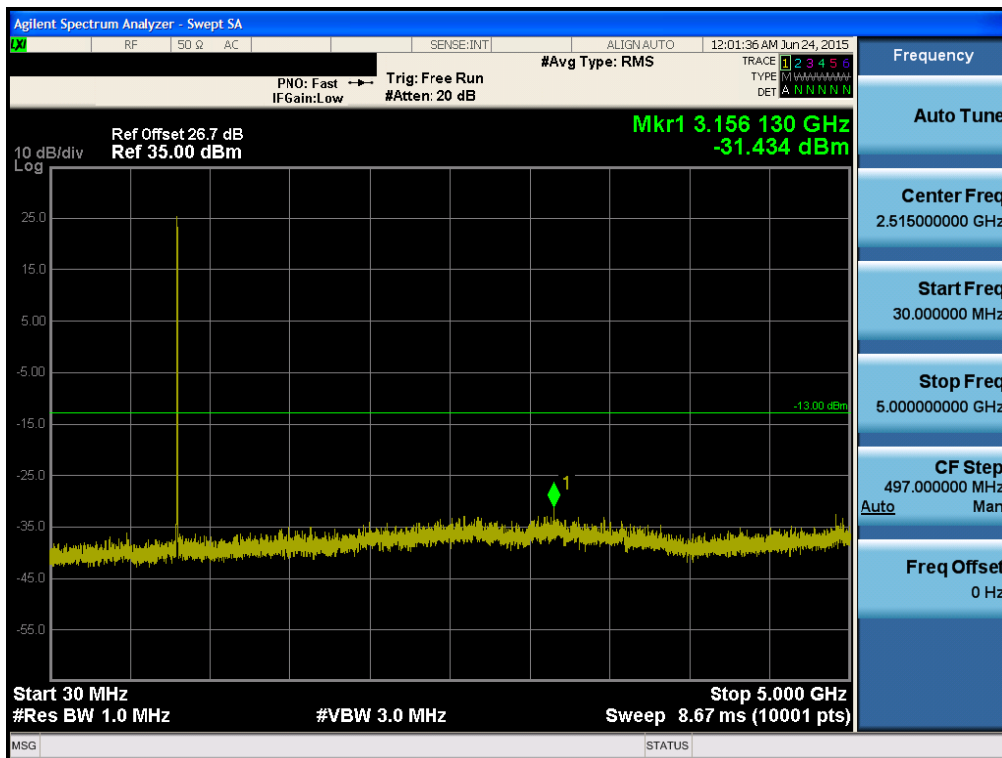
■ Secondary MODE (476 CH.) Conducted Spurious Emissions- 1



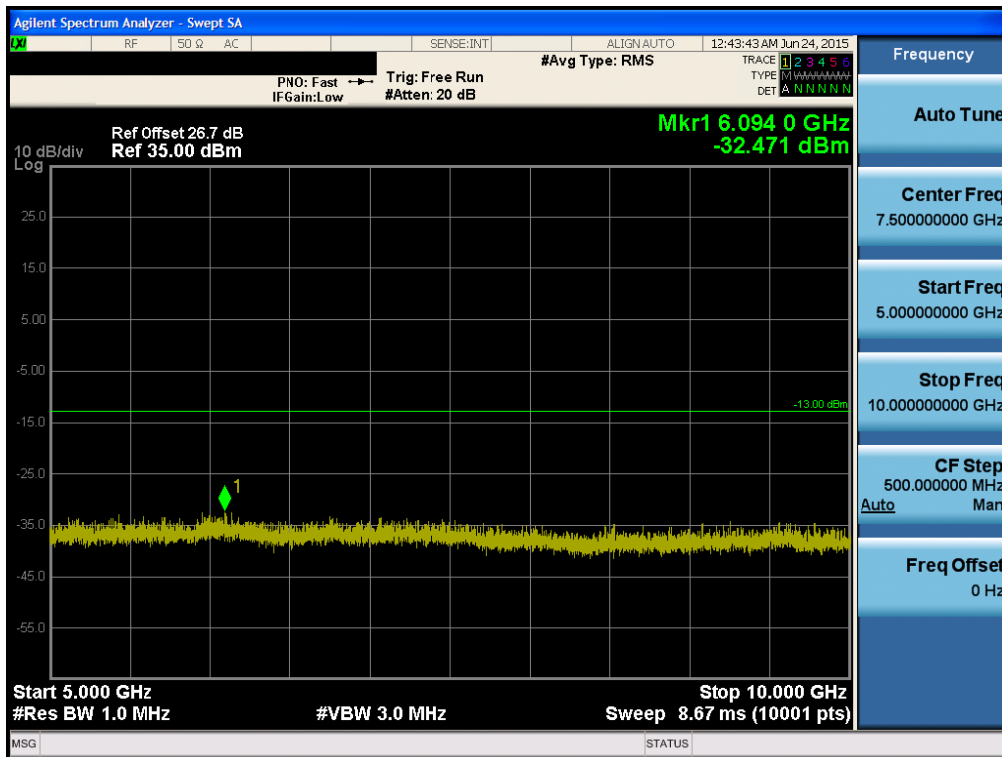
■ Secondary MODE (476 CH.) Conducted Spurious Emissions– 2



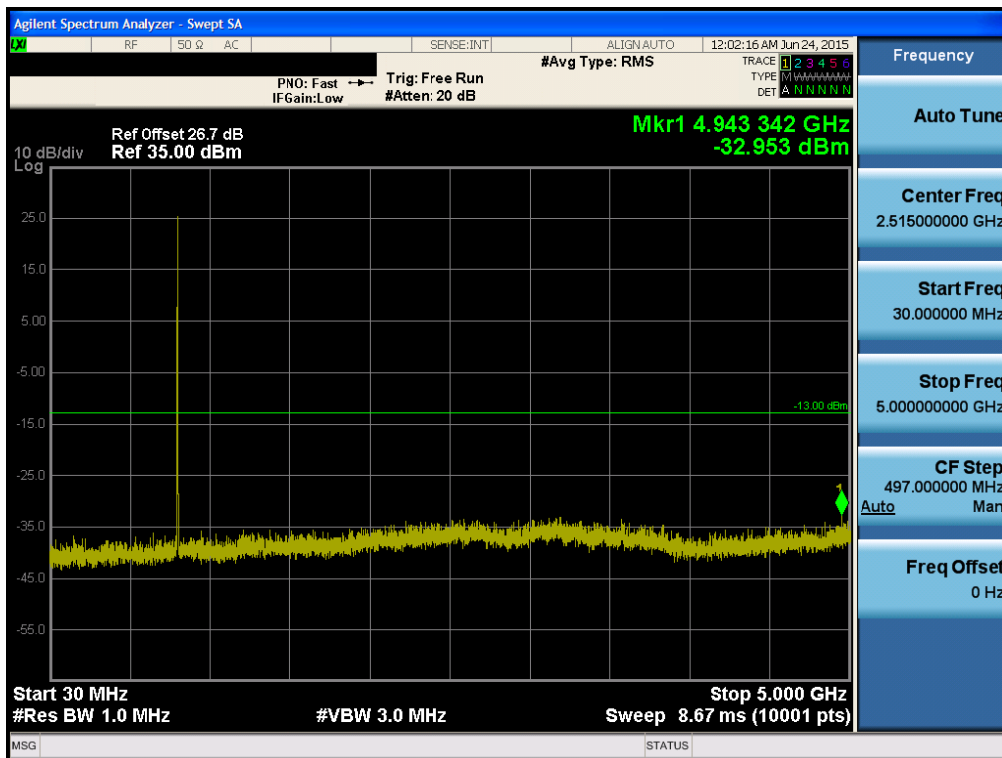
■ Secondary MODE (573 CH.) Conducted Spurious Emissions– 1



■ Secondary MODE (573 CH.) Conducted Spurious Emissions– 2



■ Secondary MODE (670 CH.) Conducted Spurious Emissions– 1



■ Secondary MODE (670 CH.) Conducted Spurious Emissions– 2

