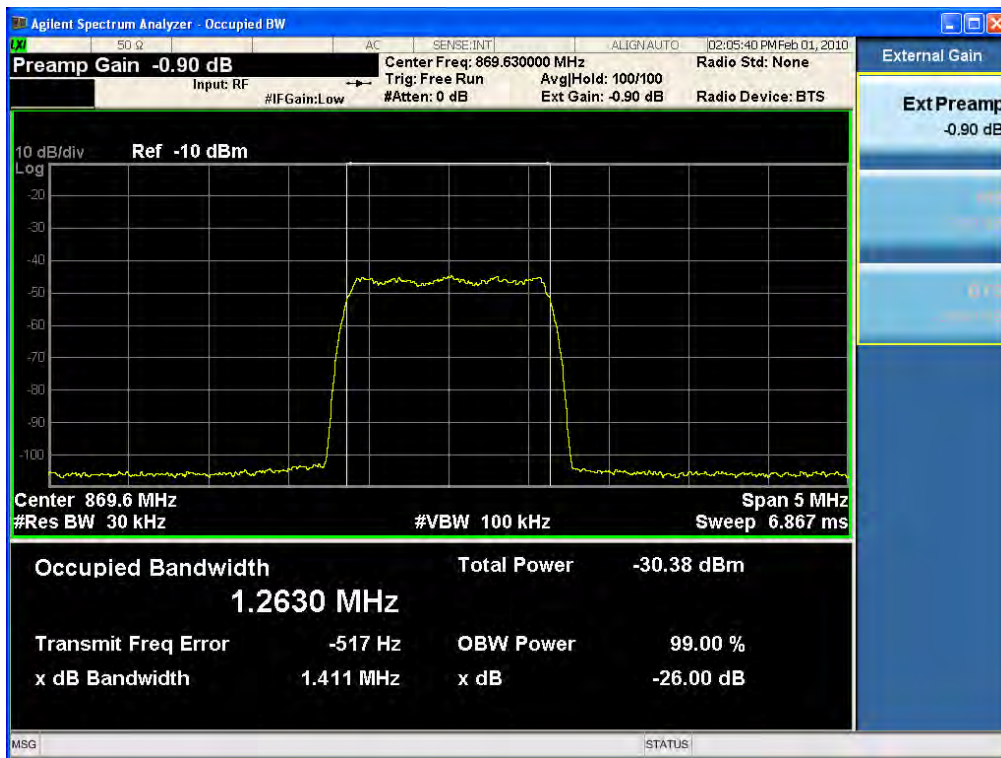
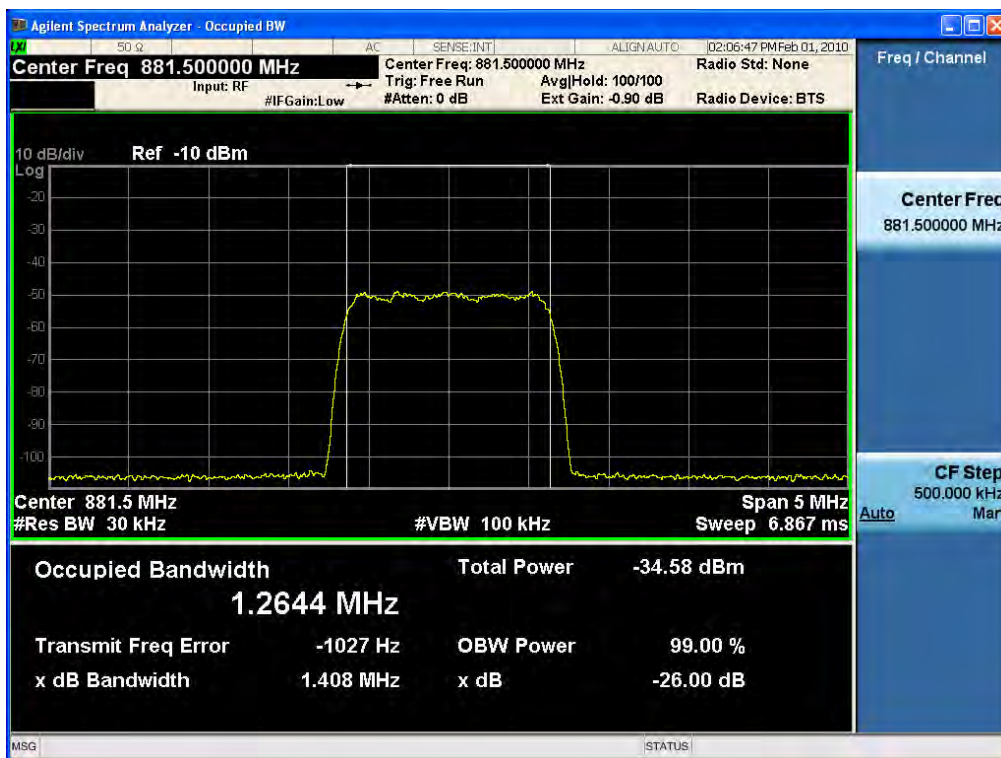


## Downlink Low CH (CDMA) Input Signal



## Downlink Mid CH (CDMA) Input Signal

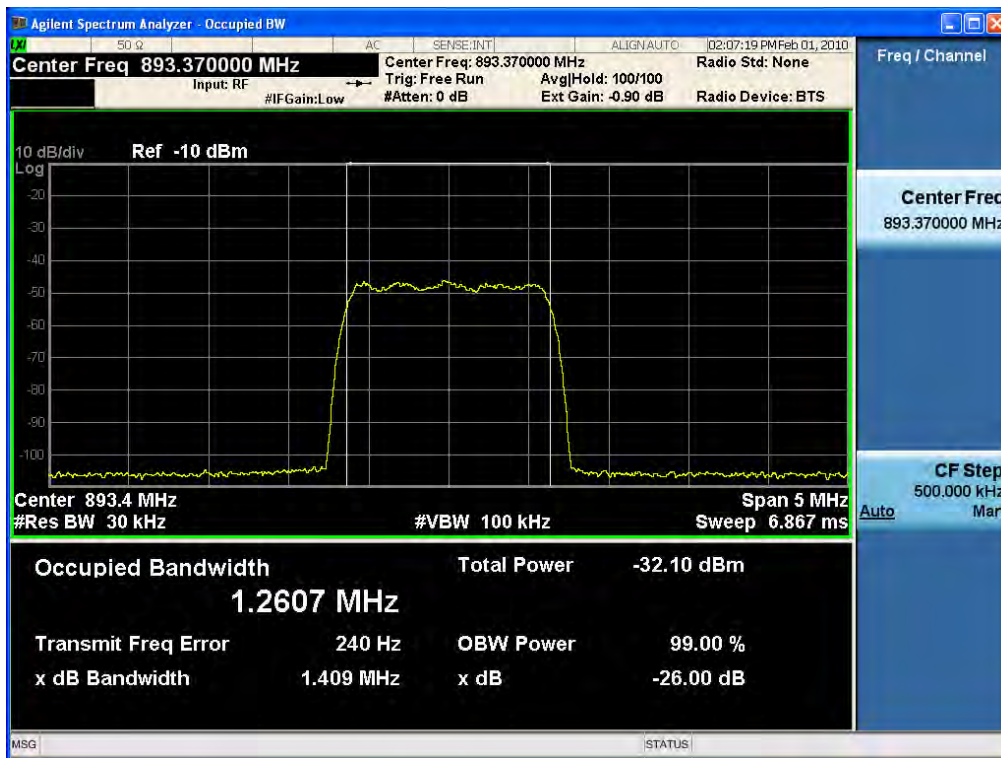


## FCC CERTIFICATION REPORT

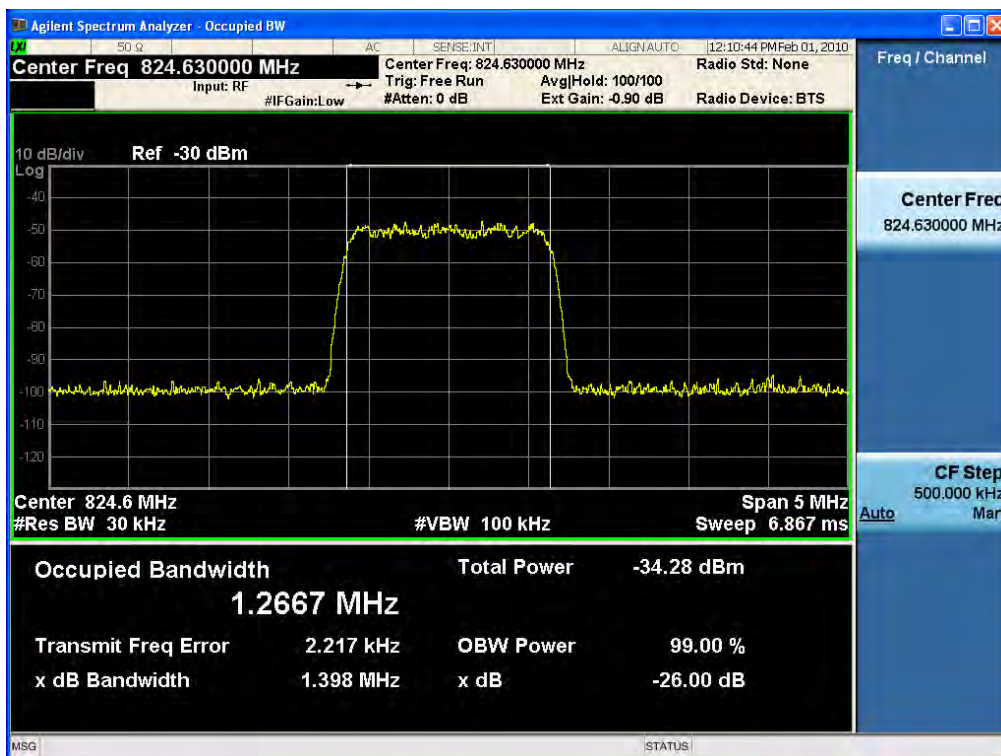
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink High CH (CDMA) Input Signal



## Uplink Low CH (CDMA) Input Signal

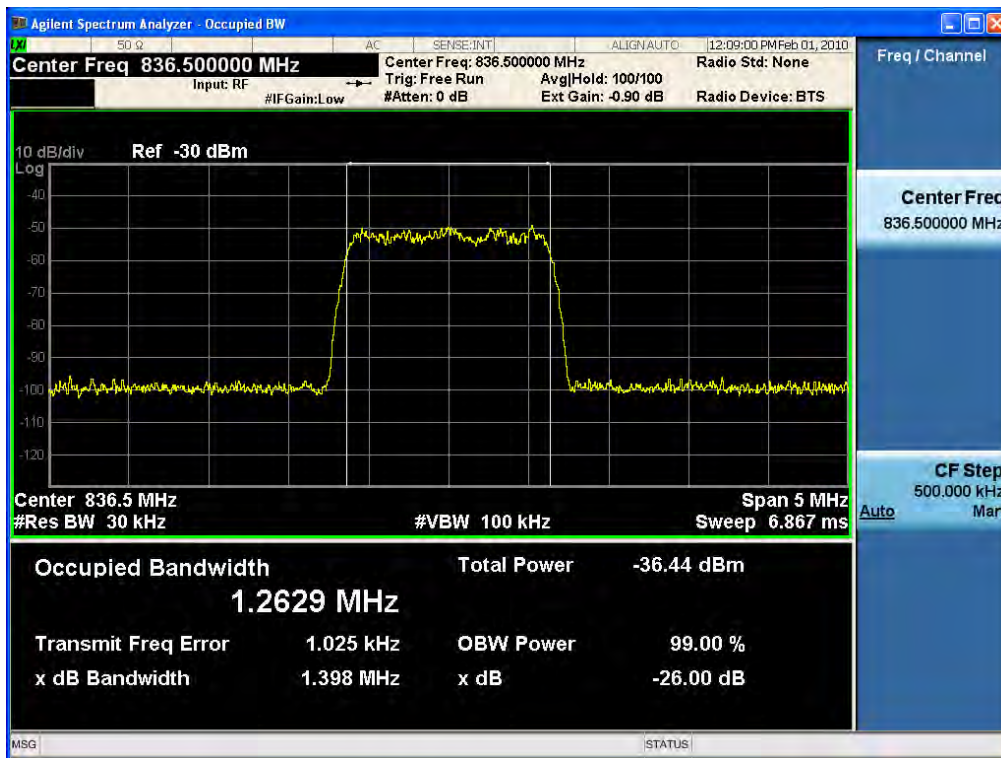


## FCC CERTIFICATION REPORT

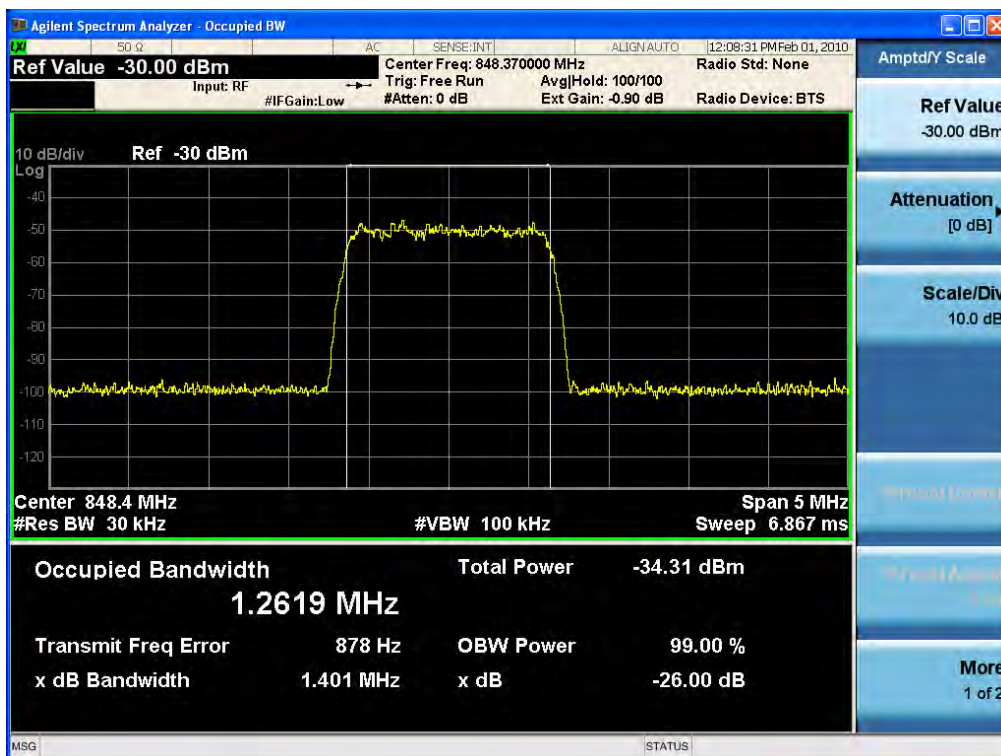
[www.hct.co.kr](http://www.hct.co.kr)

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## Uplink Mid CH (CDMA) Input Signal



## Uplink High CH (CDMA) Input Signal

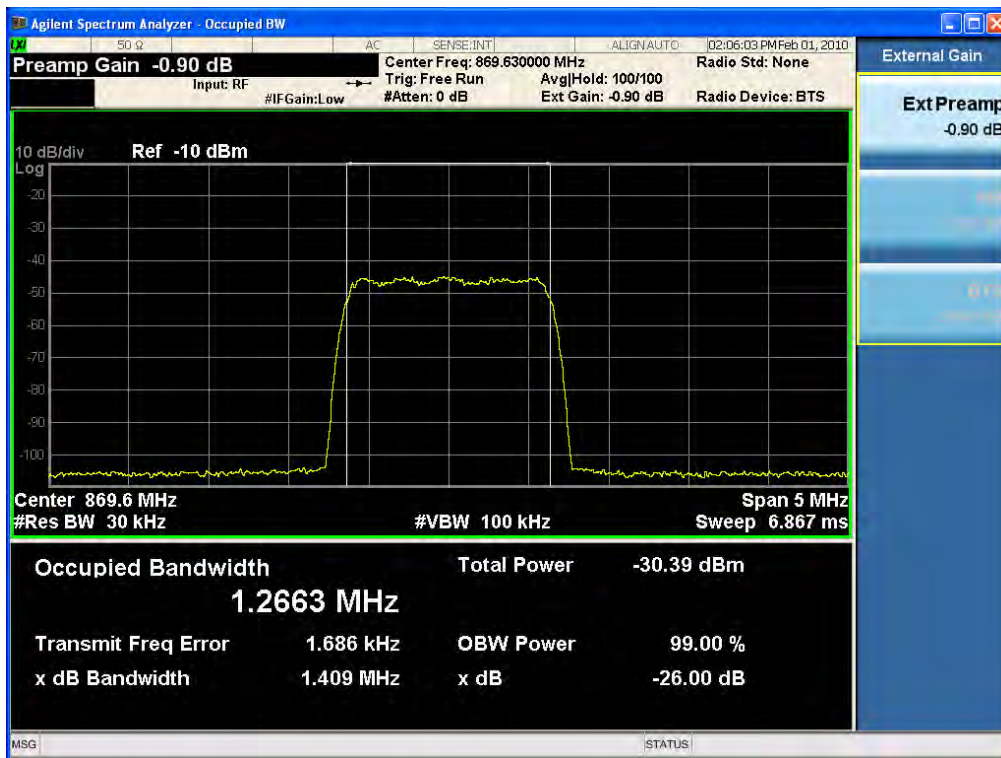


## FCC CERTIFICATION REPORT

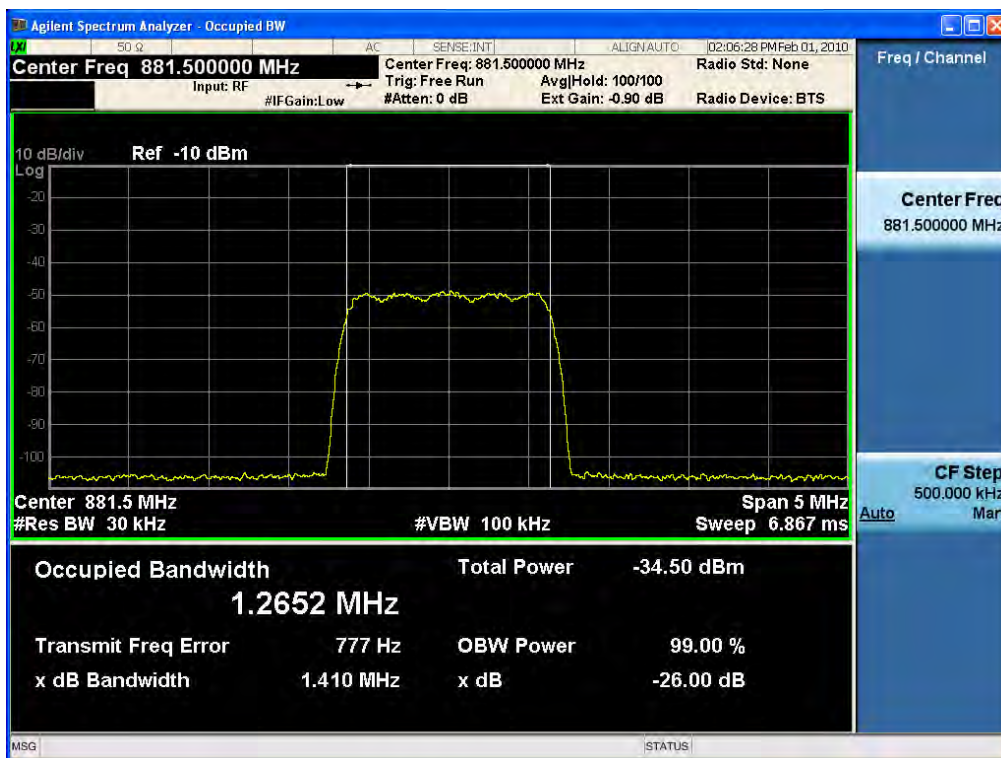
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink Low CH (CDMA EVDO) Input Signal



## Downlink Mid CH (CDMA EVDO) Input Signal

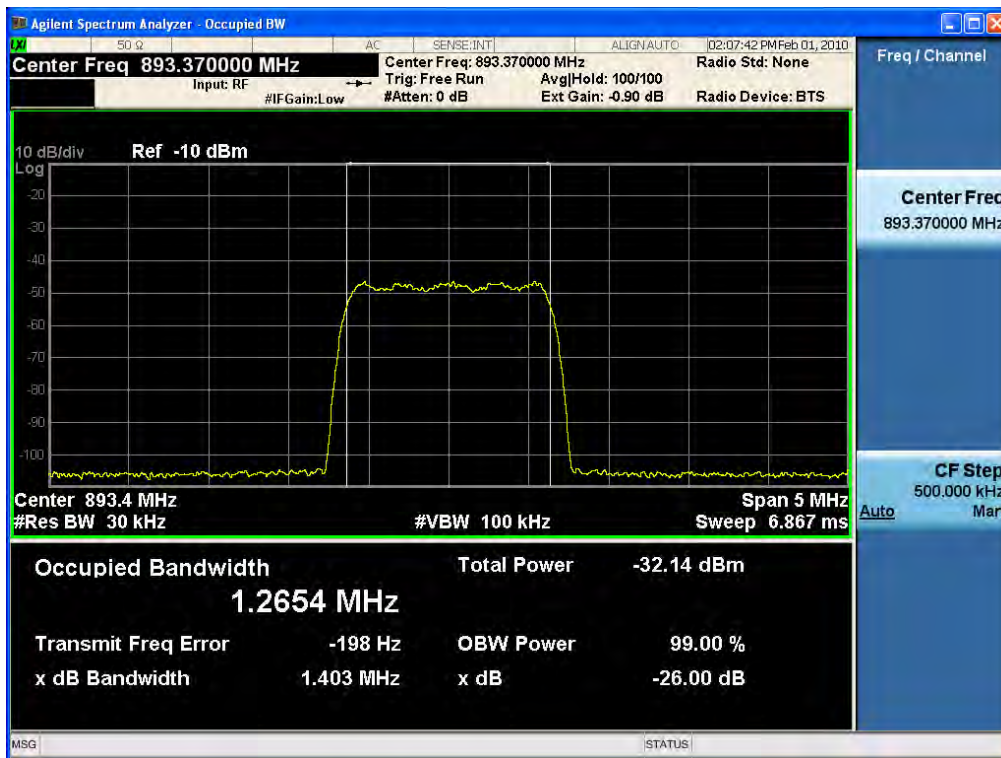


### FCC CERTIFICATION REPORT

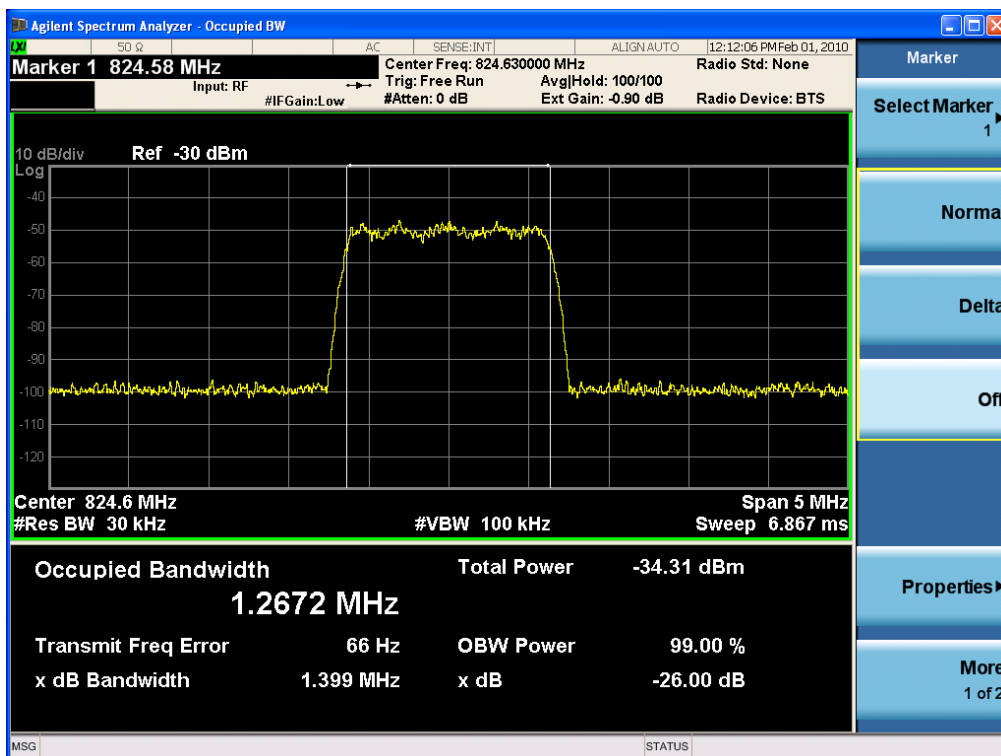
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink High CH (CDMA EVDO) Input Signal



## Uplink Low CH (CDMA EVDO) Input Signal

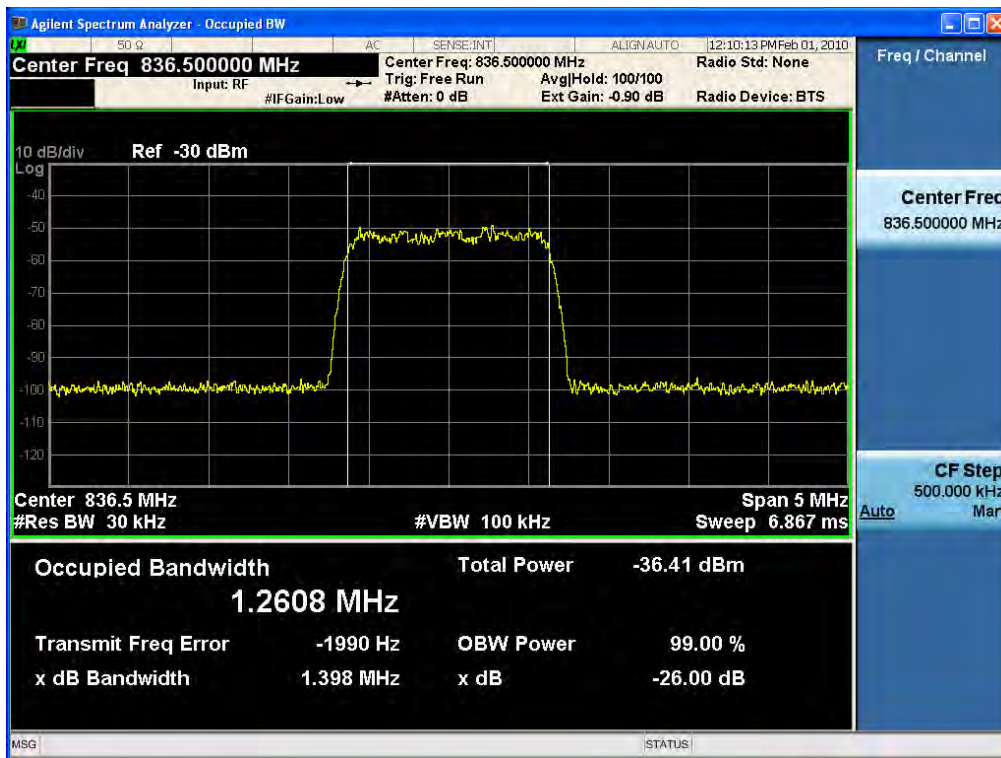


## FCC CERTIFICATION REPORT

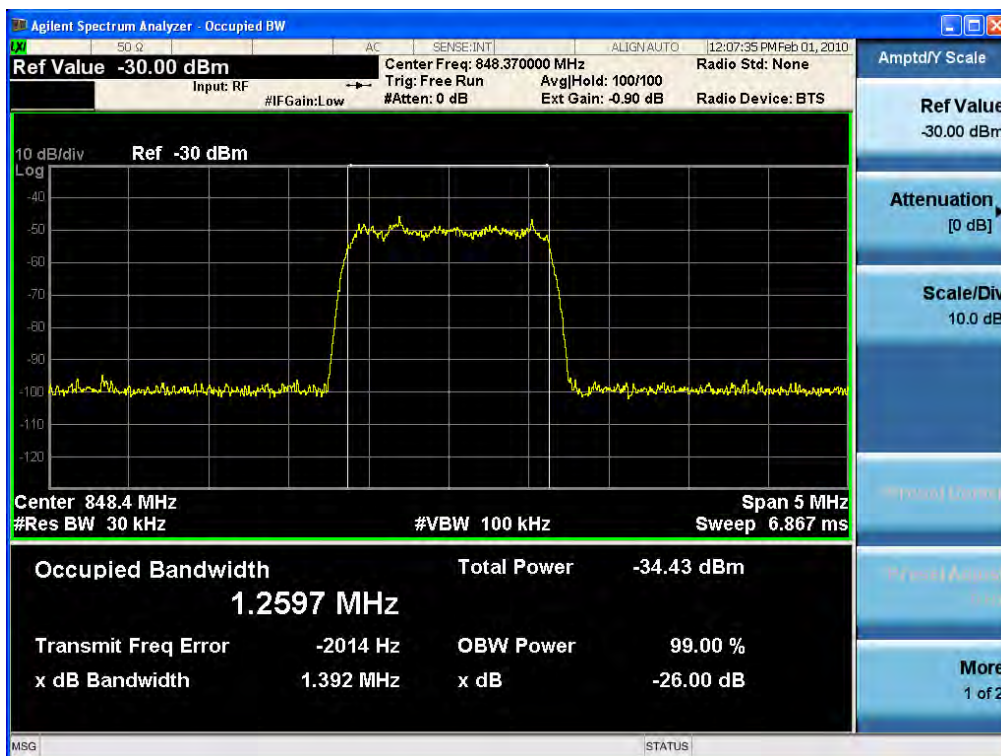
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Uplink Mid CH (CDMA EVDO) Input Signal



## Uplink High CH (CDMA EVDO) Input Signal



### FCC CERTIFICATION REPORT

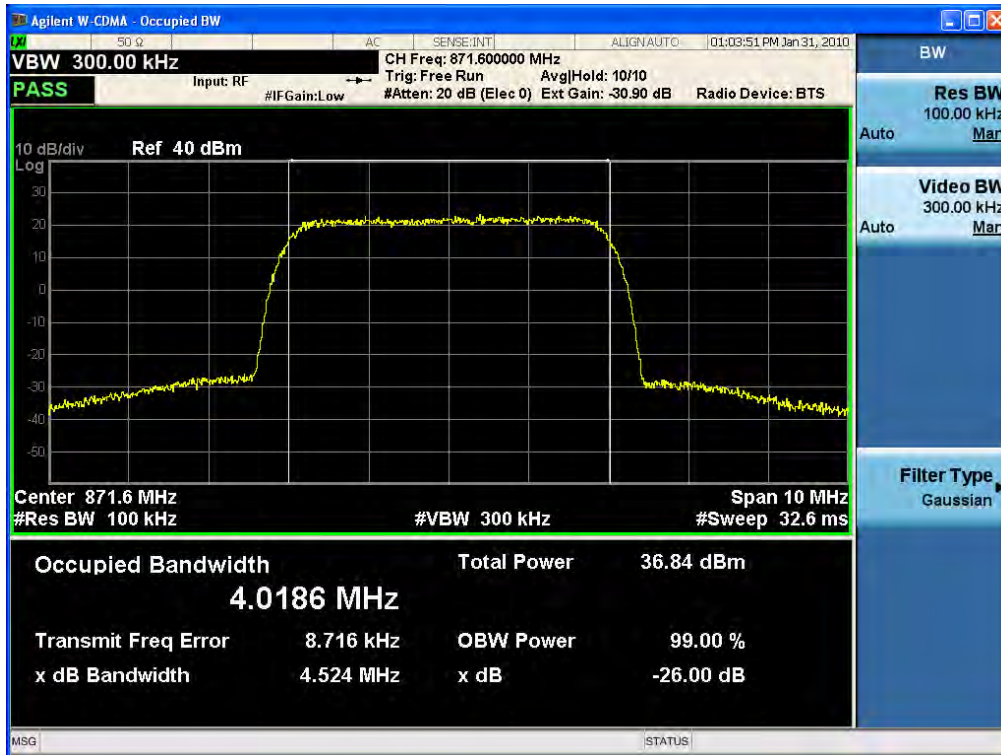
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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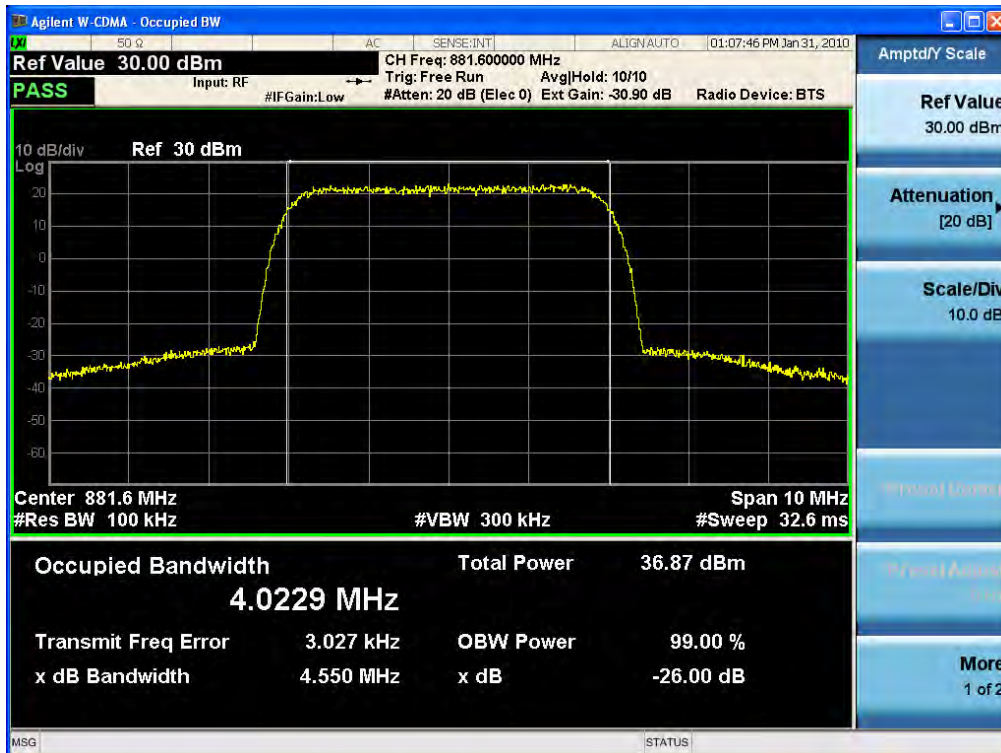


## Plots of Occupied Bandwidth (99 %)

### Downlink Low CH WCDMA



### Downlink Mid CH WCDMA

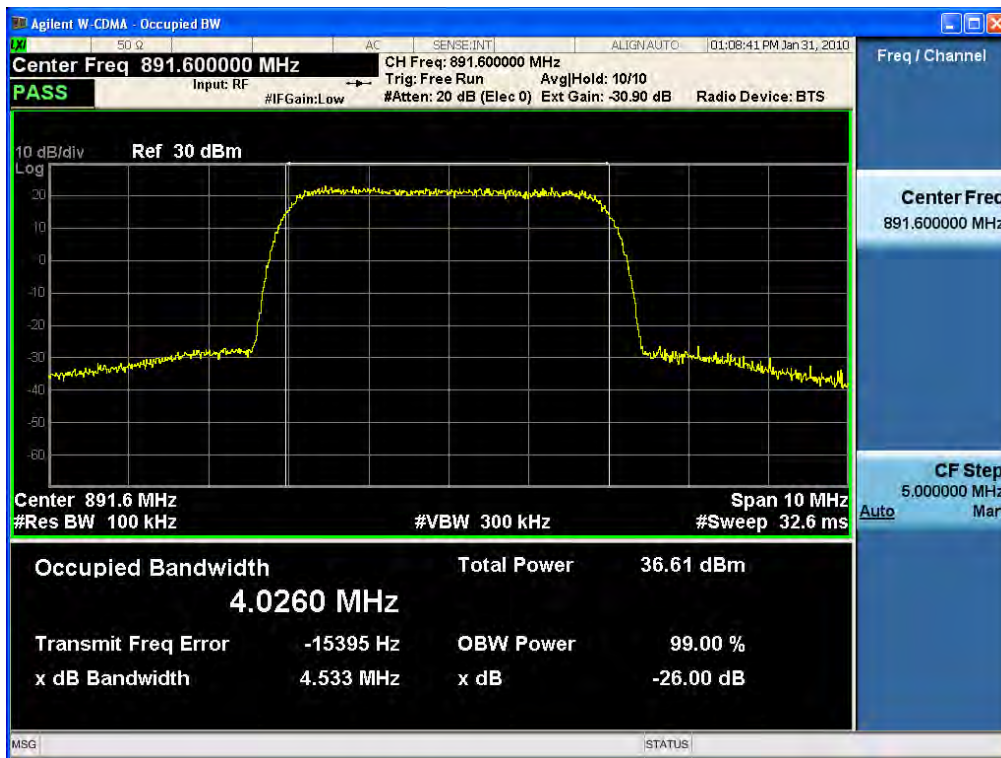


#### FCC CERTIFICATION REPORT

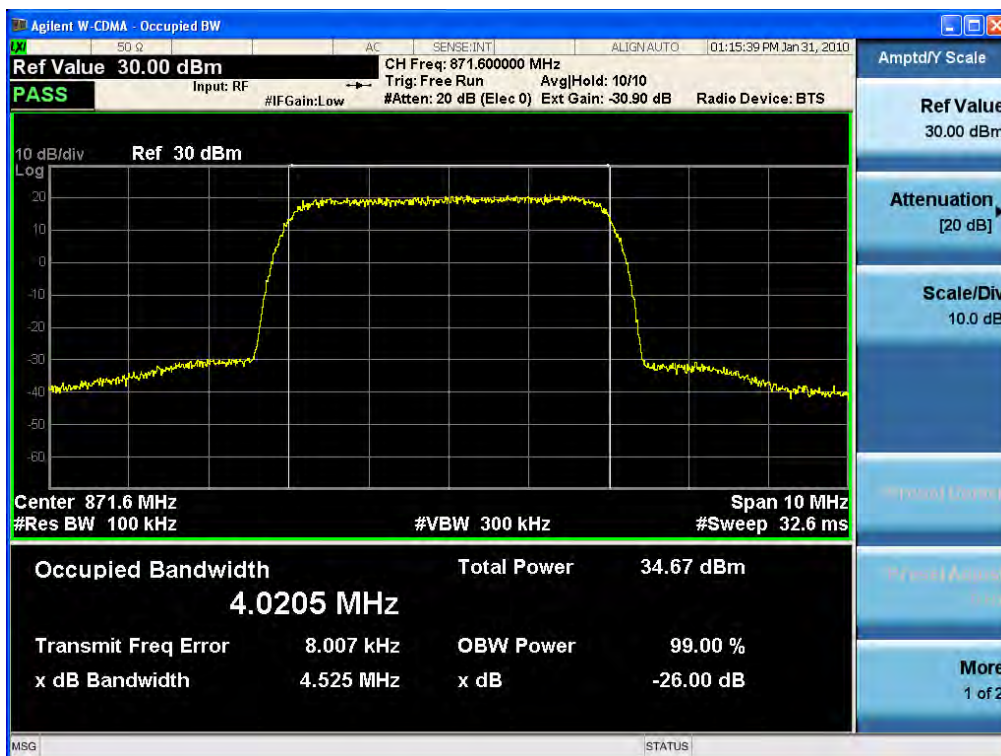
[www.hct.co.kr](http://www.hct.co.kr)

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## Downlink High CH WCDMA



## Downlink Low CH WCDMA HSDPA

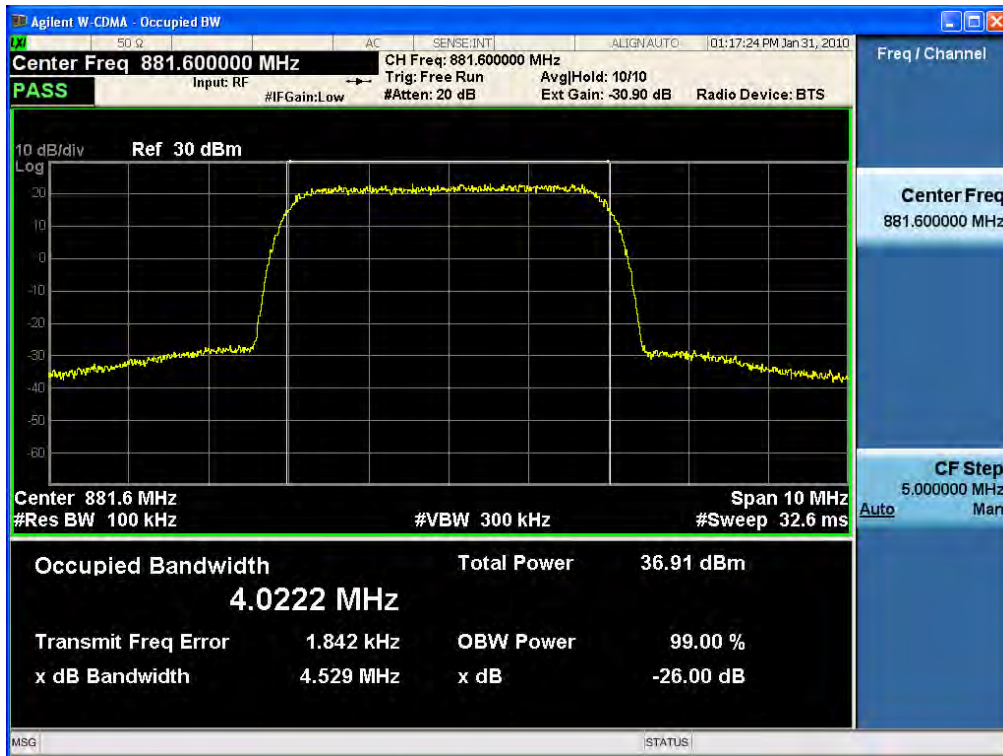


## FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink Mid CH WCDMA HSDPA



## Downlink High CH WCDMA HSDPA

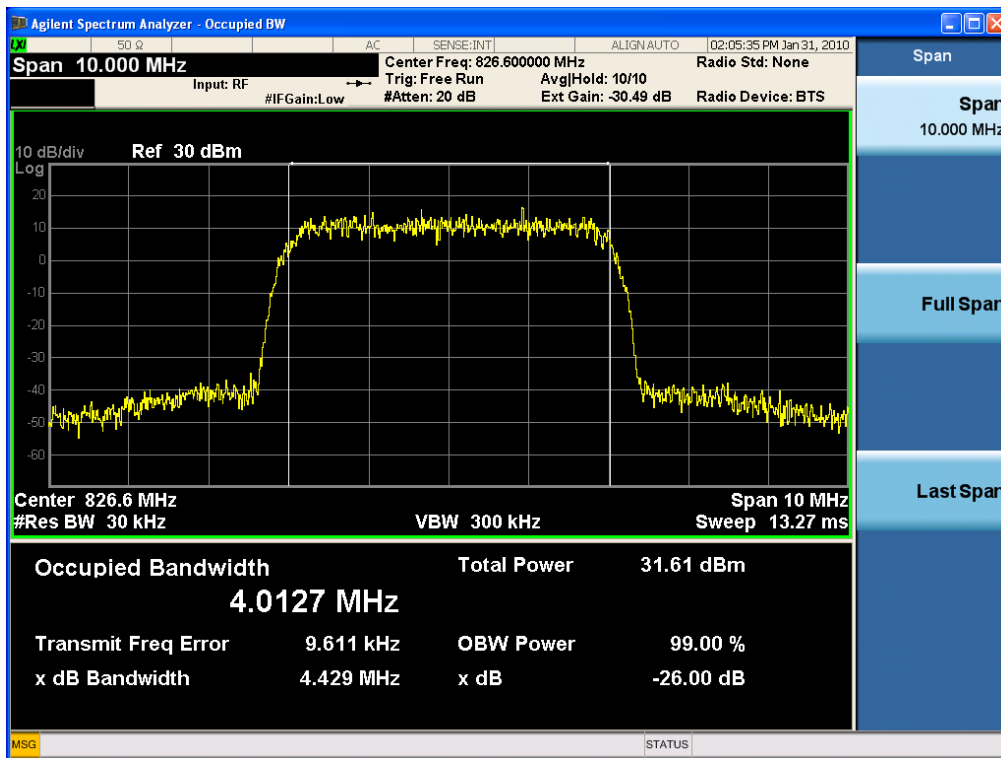


## FCC CERTIFICATION REPORT

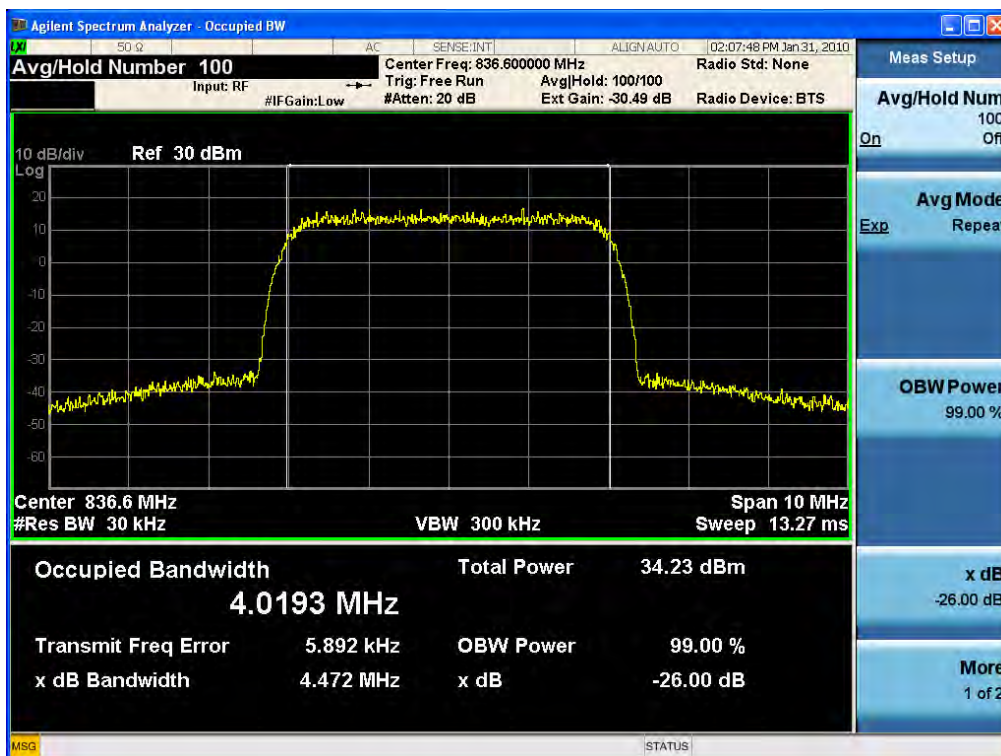
[www.hct.co.kr](http://www.hct.co.kr)

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## Uplink Low CH WCDMA



## Uplink Mid CH WCDMA

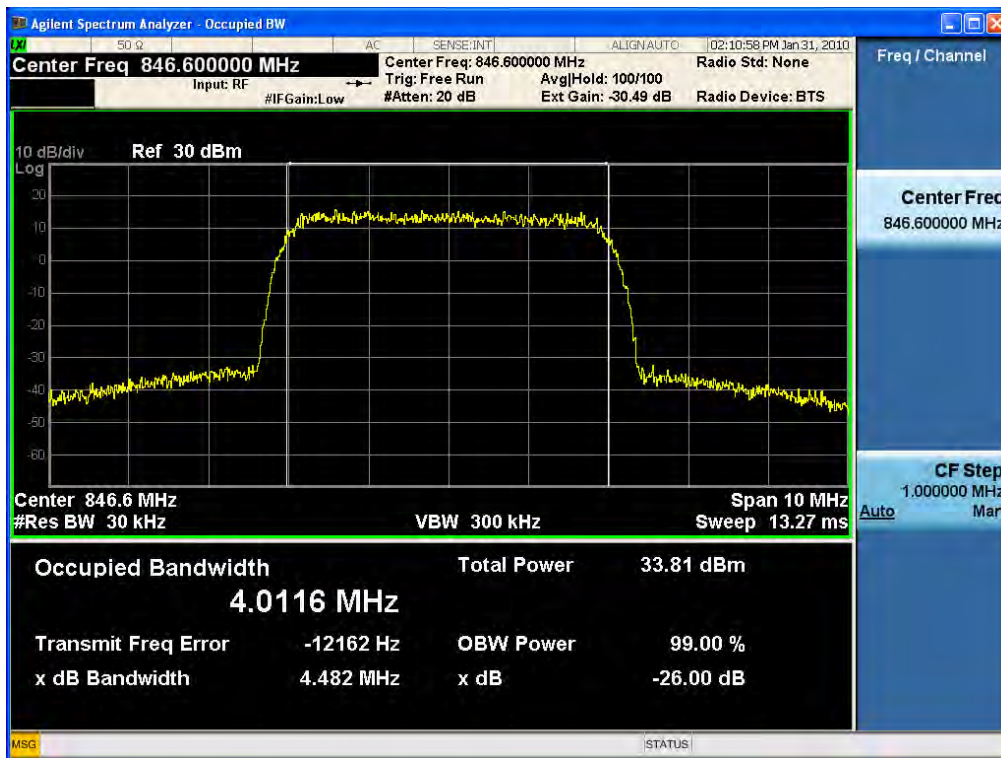


### FCC CERTIFICATION REPORT

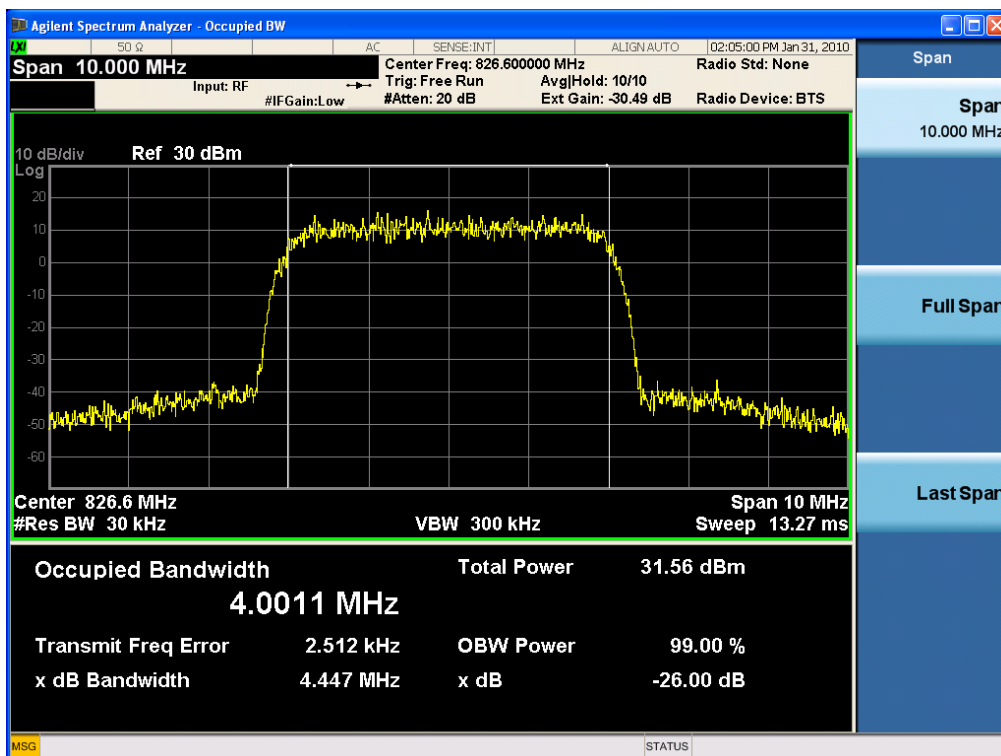
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Uplink High CH WCDMA



## Uplink Low CH WCDMA HSDPA

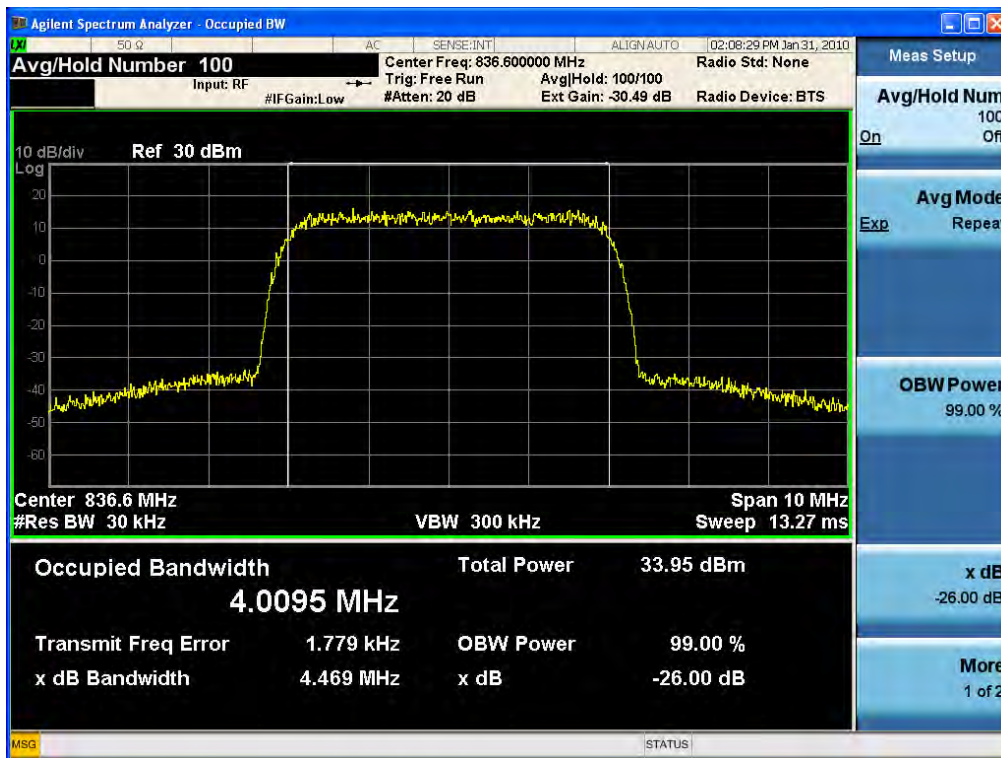


### FCC CERTIFICATION REPORT

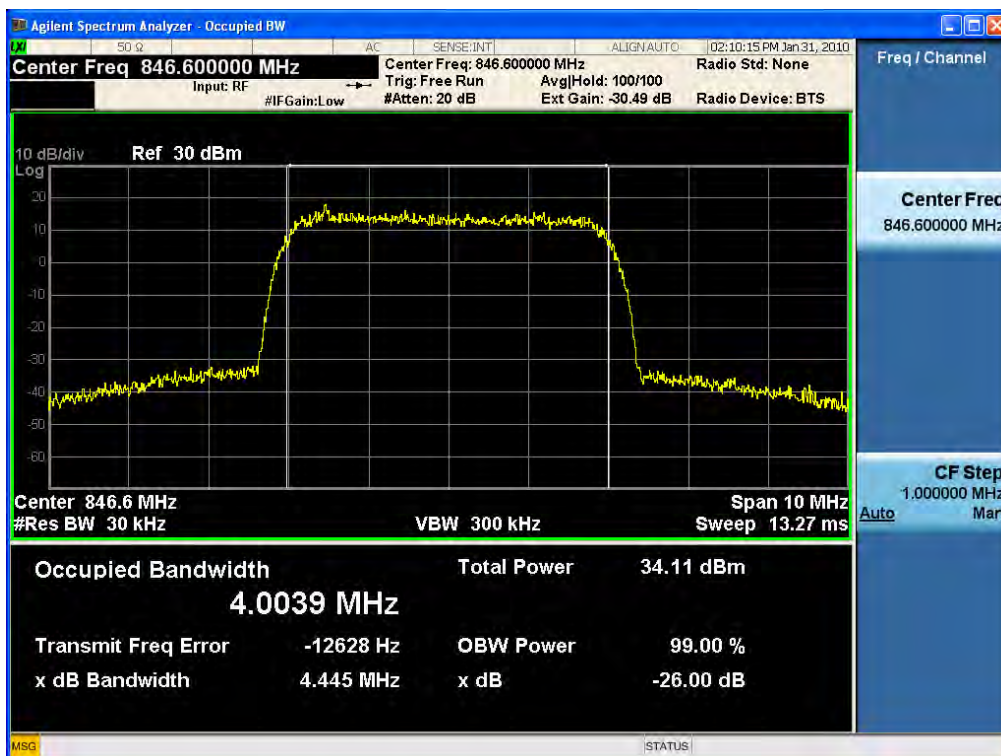
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Uplink Mid CH WCDMA HSDPA



## Uplink High CH WCDMA HSDPA



## FCC CERTIFICATION REPORT

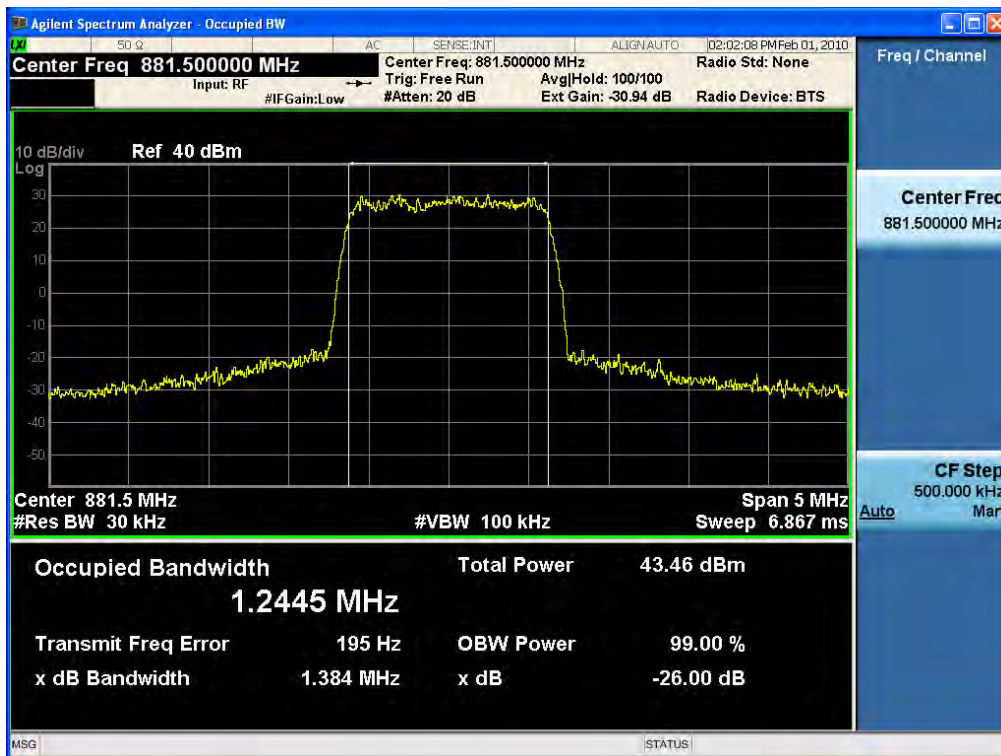
[www.hct.co.kr](http://www.hct.co.kr)

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## Downlink Low CH CDMA



## Downlink Mid CH CDMA

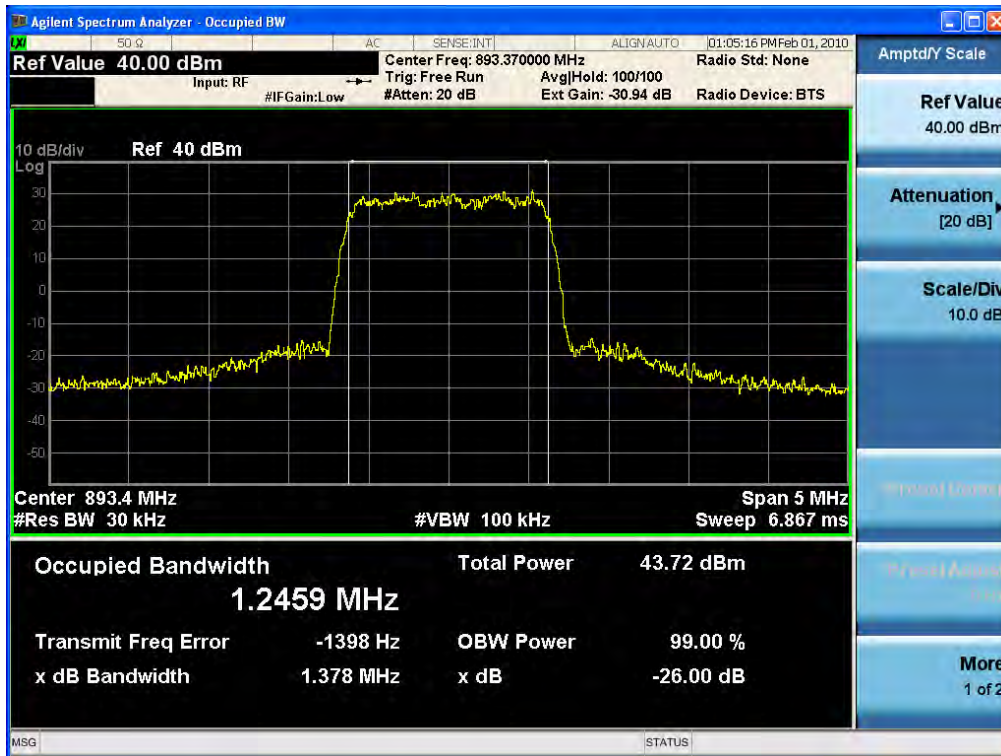


## FCC CERTIFICATION REPORT

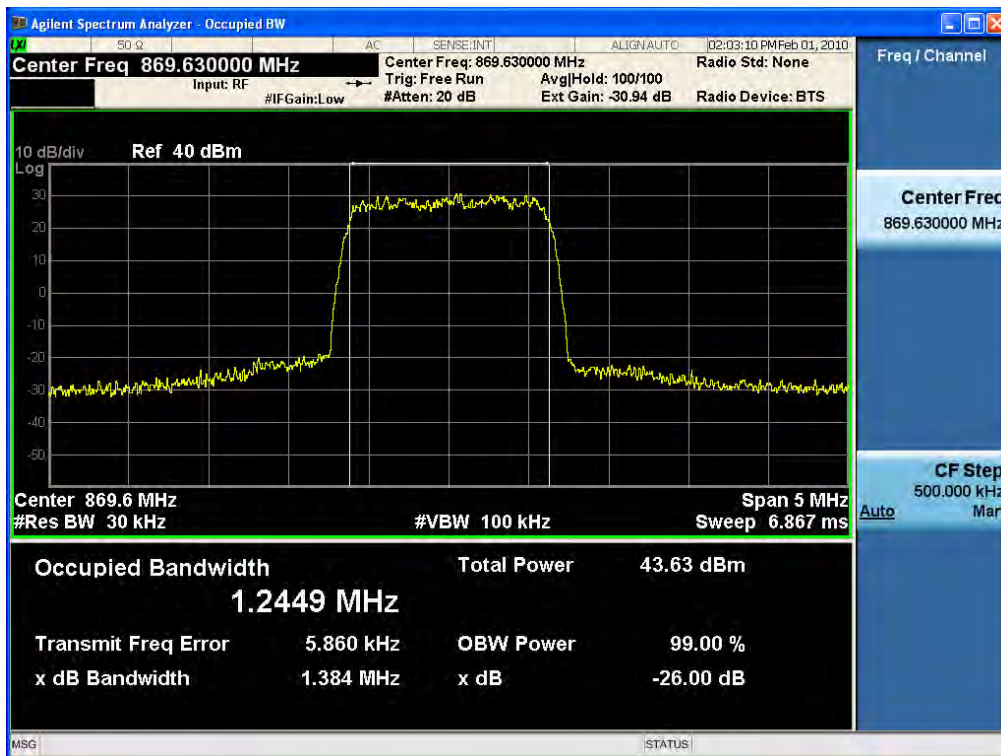
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink High CH CDMA



## Downlink Low CH CDMA EVDO

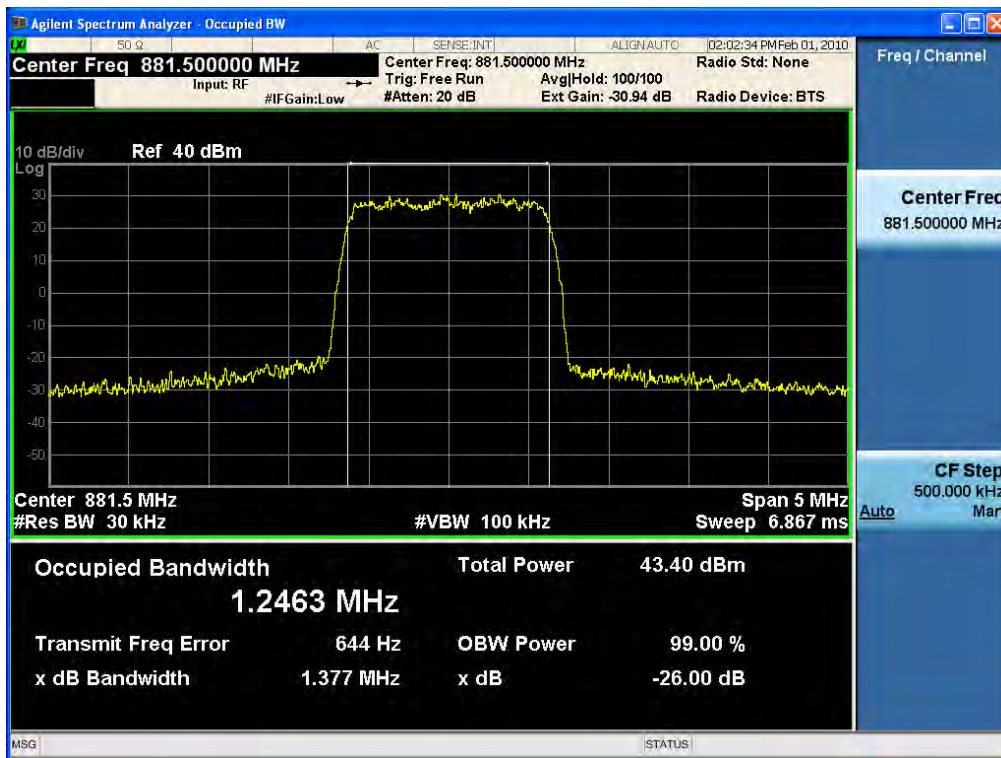


## FCC CERTIFICATION REPORT

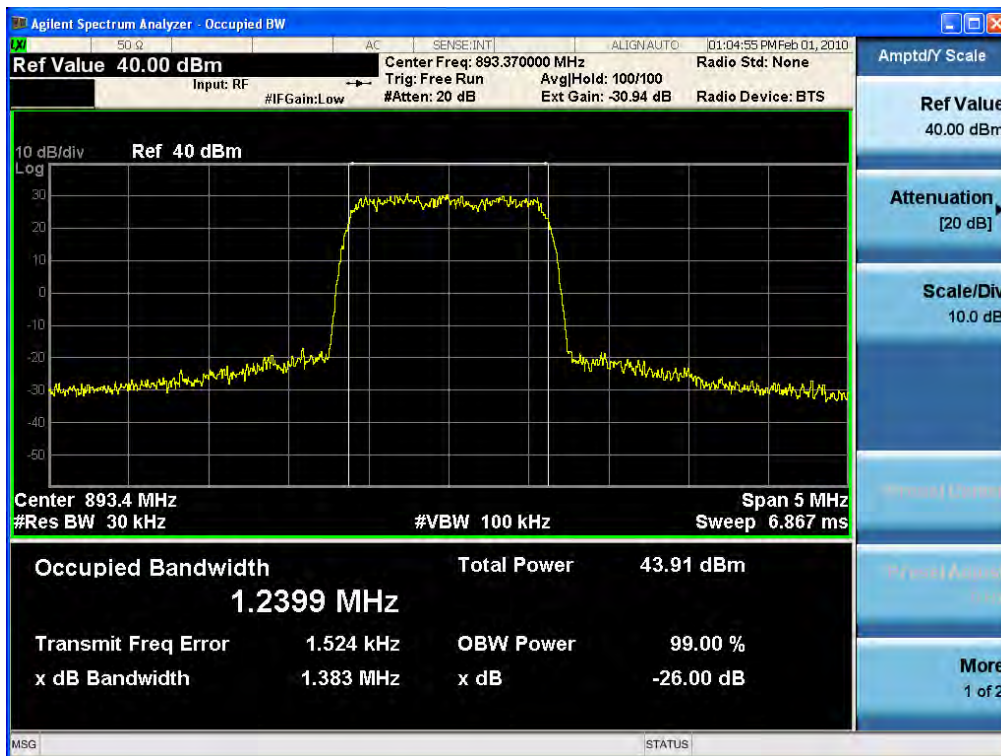
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Downlink Mid CH CDMA EVDO



## Downlink High CH CDMA EVDO

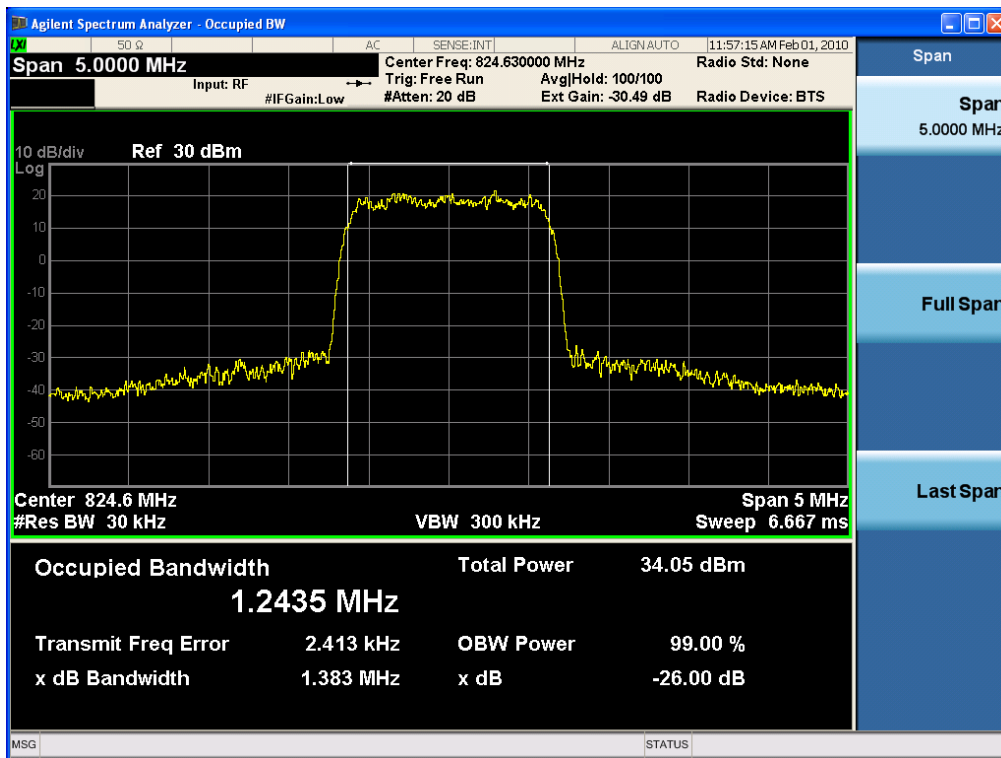


## FCC CERTIFICATION REPORT

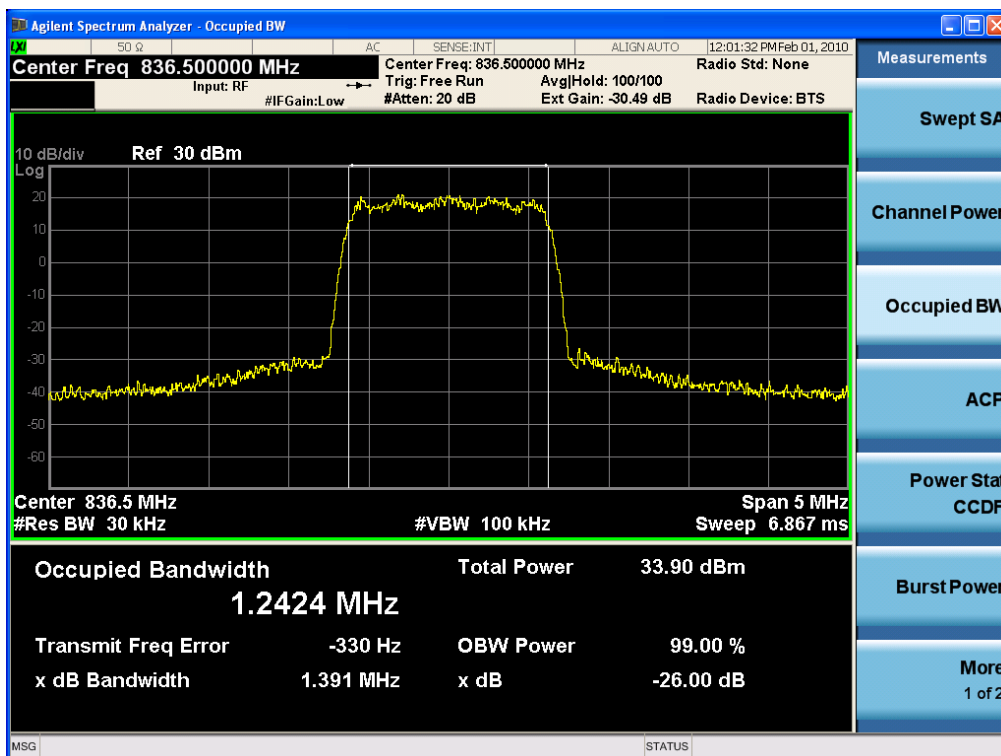
[www.hct.co.kr](http://www.hct.co.kr)

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## Uplink Low CH CDMA



## Uplink Mid CH CDMA

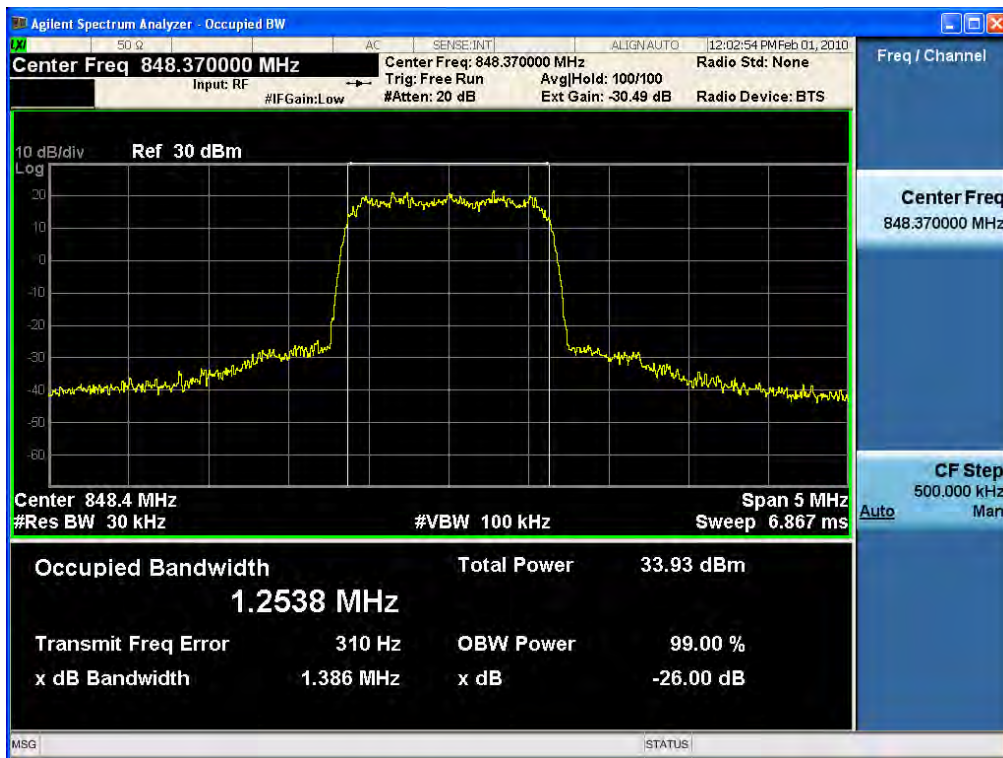


### FCC CERTIFICATION REPORT

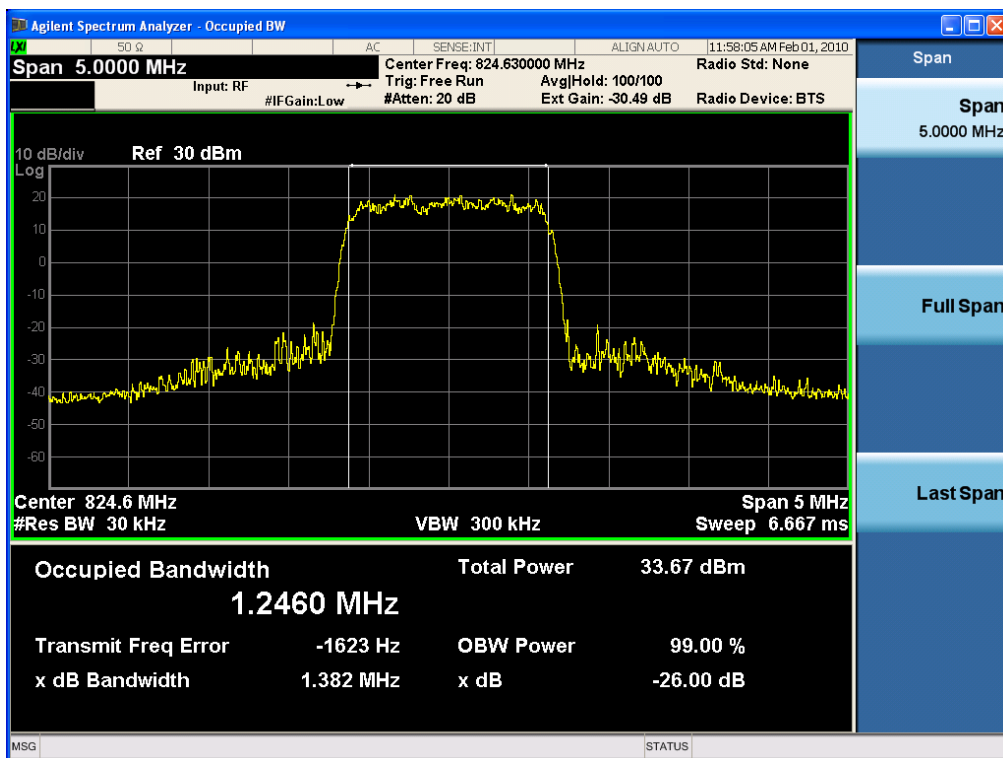
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Uplink High CH CDMA



## Uplink Low CH CDMA EVDO

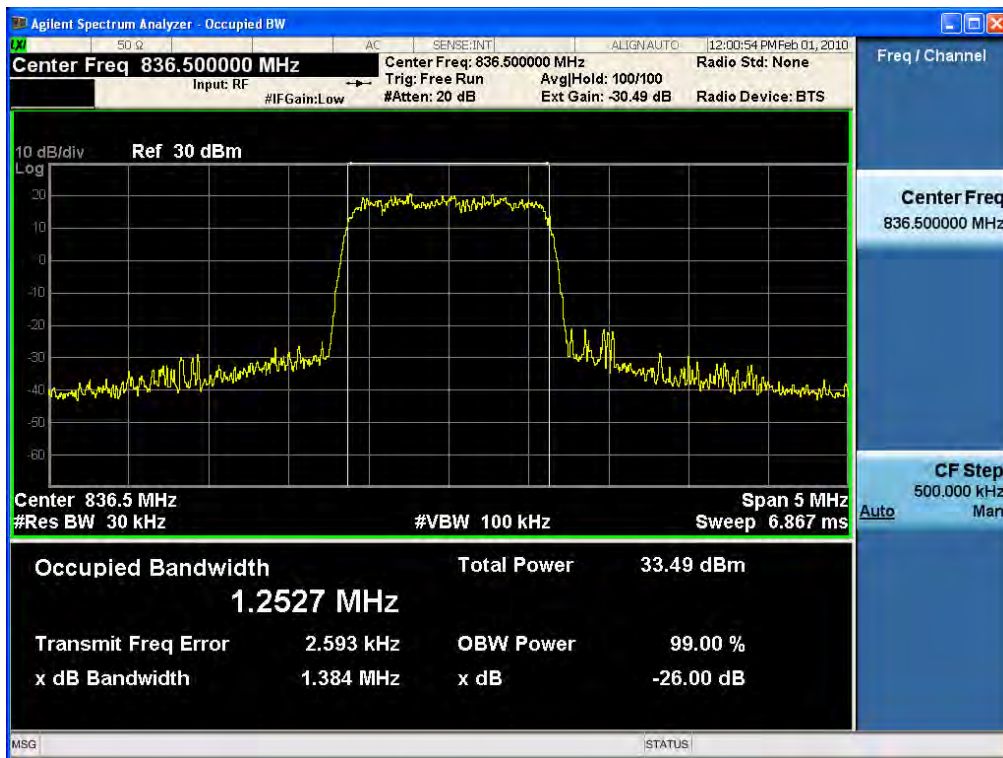


### FCC CERTIFICATION REPORT

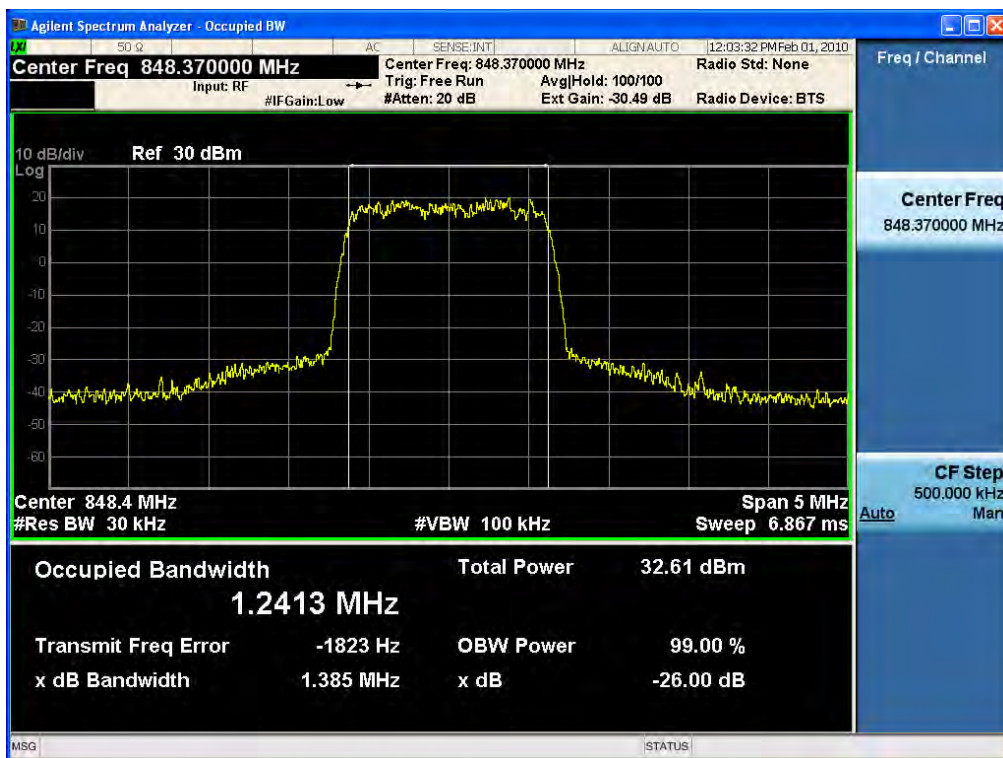
[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Uplink Mid CH CDMA EVDO



## Uplink High CH CDMA EVDO



## FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## 7. SPURIOUS AND HARMONIC EMISSION AT ANTENNA TERMINAL

**Test Requirement(s): § 2.1051 Measurements required: Spurious emissions at antenna terminals:**

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§ 22.917(a), Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

**Test Procedures:** A modulated carrier generated by the signal generator carrier was connected to either the Uplink or Downlink RF port at a maximum level as determined by the OEM A spectrum analyzer was connected to either the Uplink or Downlink port depending on the circuitry being measured. The spectrum was investigated from 30 MHz to the 26.5 GHz of the carrier.

**Test Results:** The EUT complies with the requirements of this section. There were no detectable spurious emissions for this EUT.

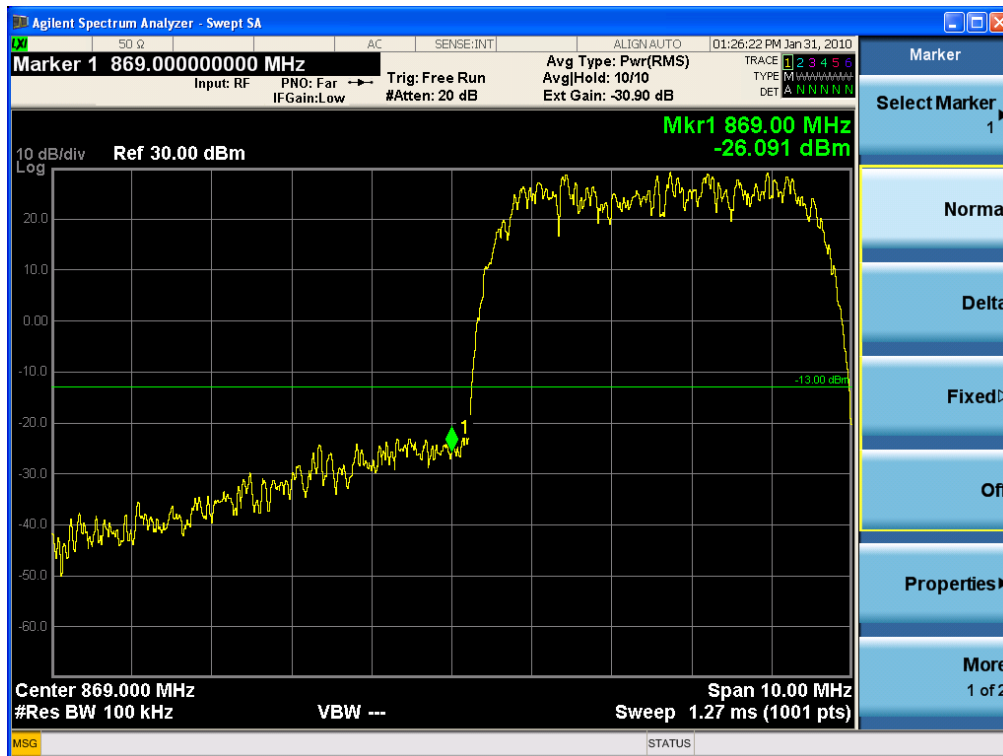
**Test Results:** The EUT complies with the requirements of this section. There were no detectable spurious emissions for this EUT.

FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X4O-ICS-F0837

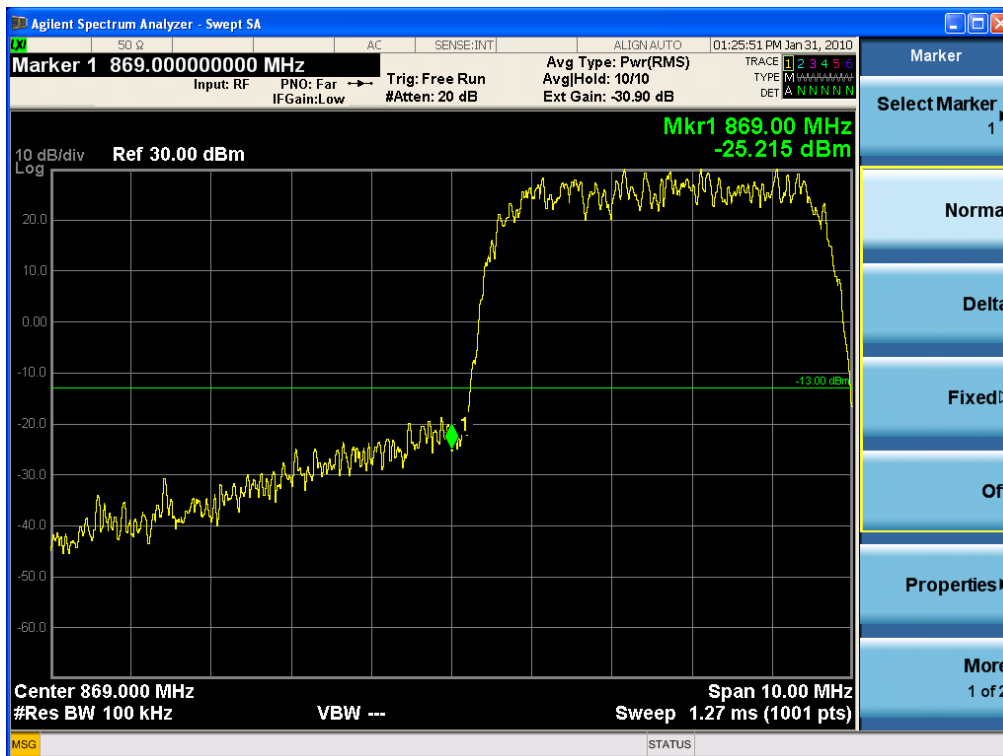


## Plots of BAND EDGE

(Downlink Low CH-WCDMA)



(Downlink High CH- WCDMA)



### FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

Test Report No.  
HCTR1001FR09

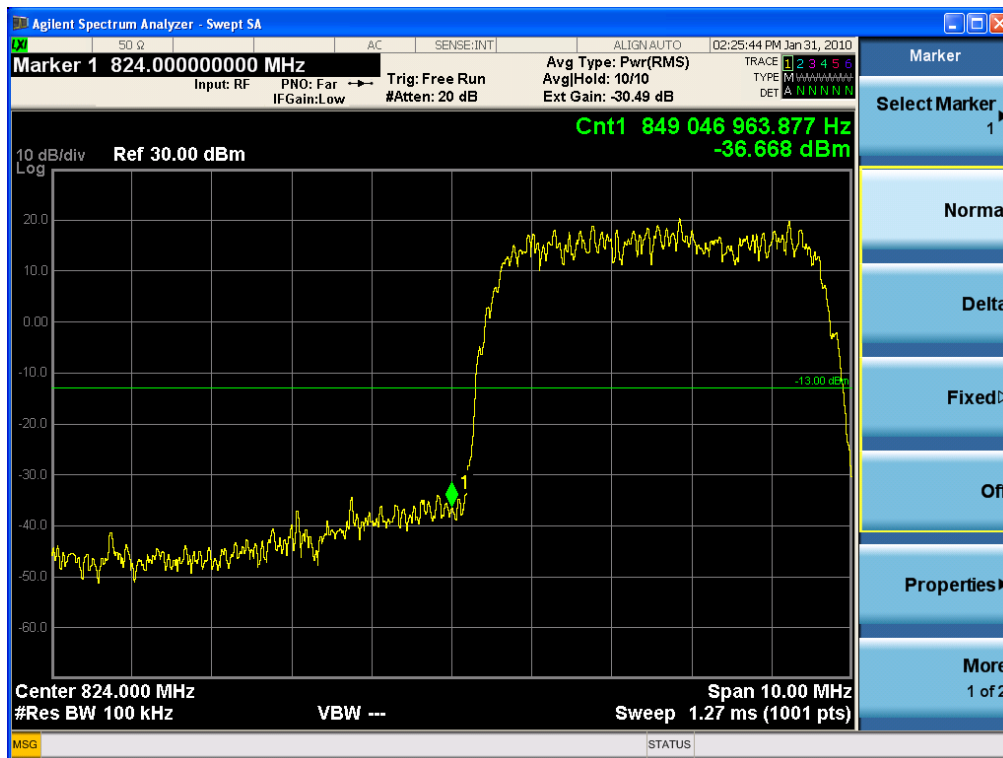
Date of Issue:  
January 31, 2010

EUT Type:  
ICS-Digital Relay

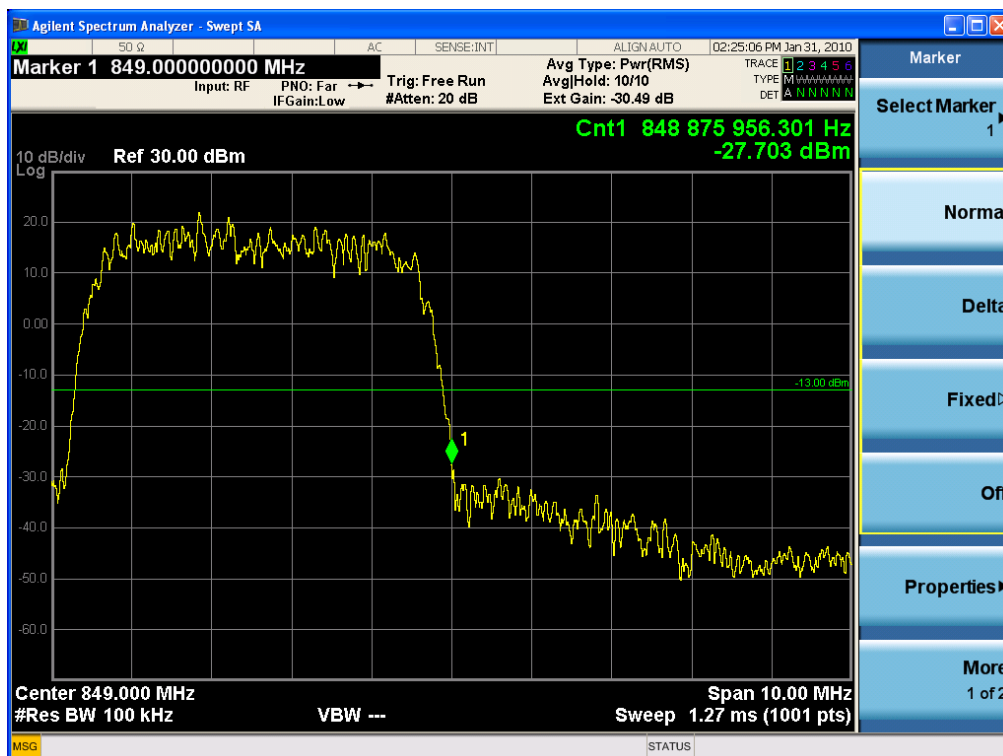
FCC ID:  
X40-ICS-F0837



(Uplink Low CH- WCDMA)

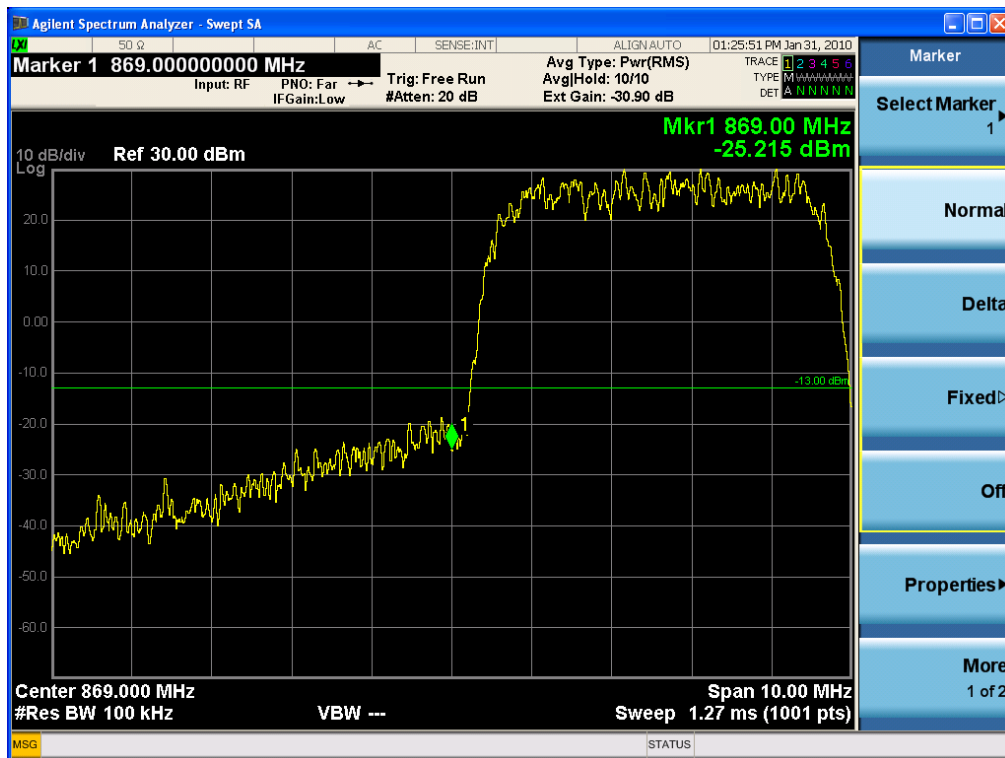


(Uplink High CH- WCDMA)



FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837

## (Downlink Low CH-WCDMA HSDPA)



## (Downlink High CH- WCDMA HSDPA)



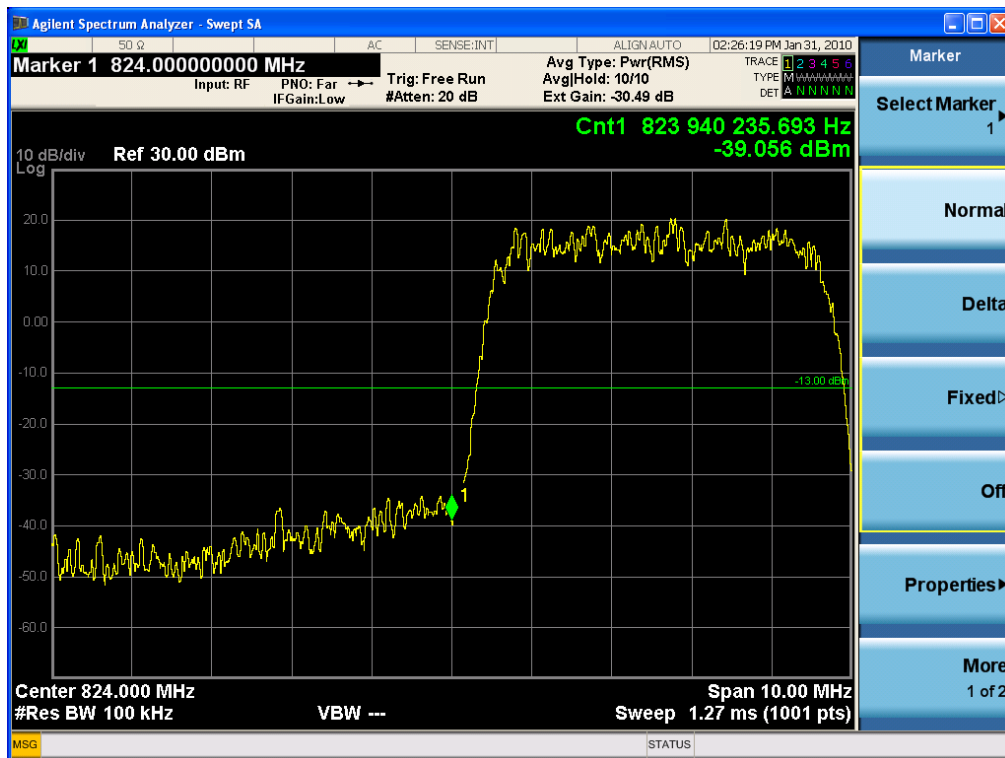
### FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

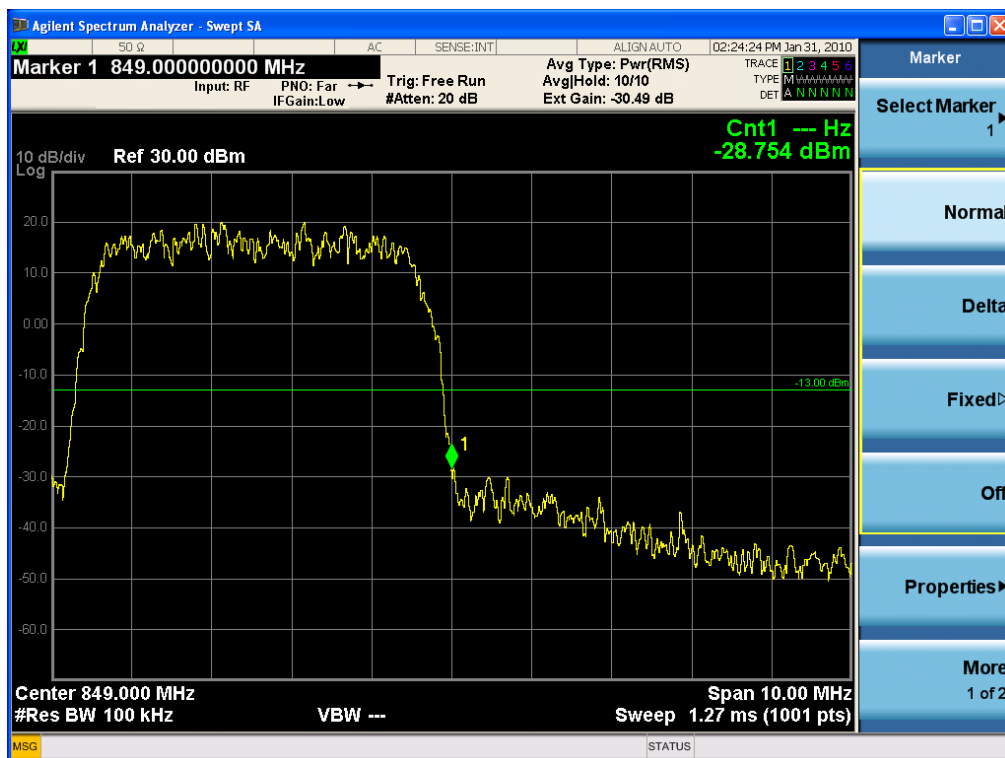
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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(Uplink Low CH- WCDMA HSDPA)



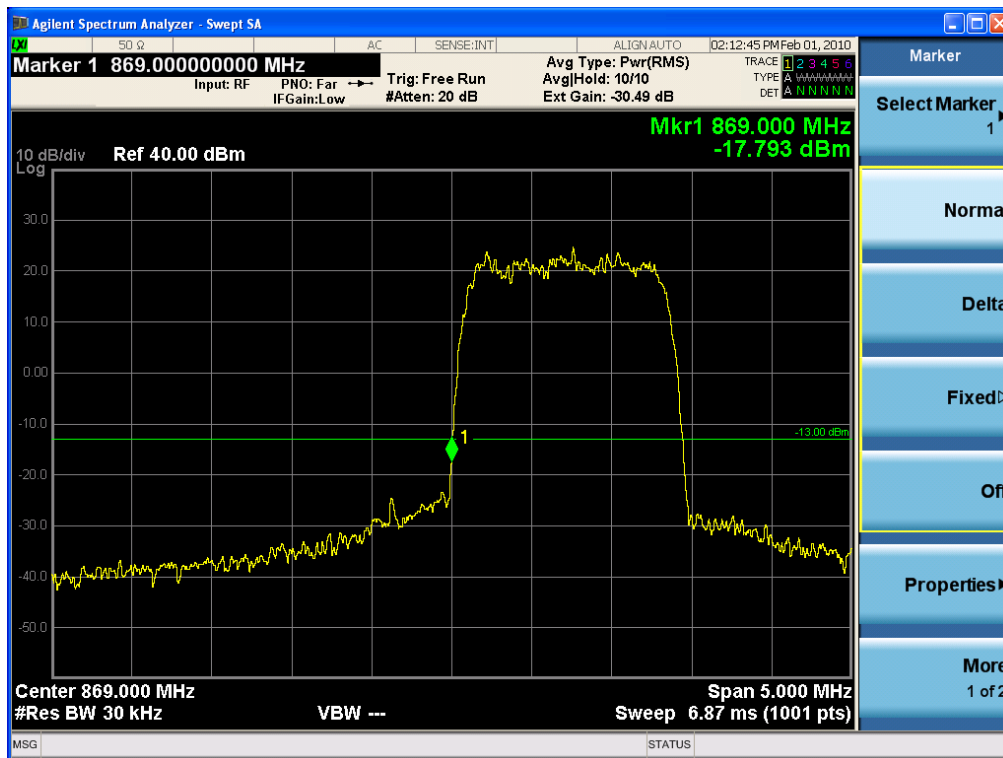
(Uplink High CH- WCDMA HSDPA)



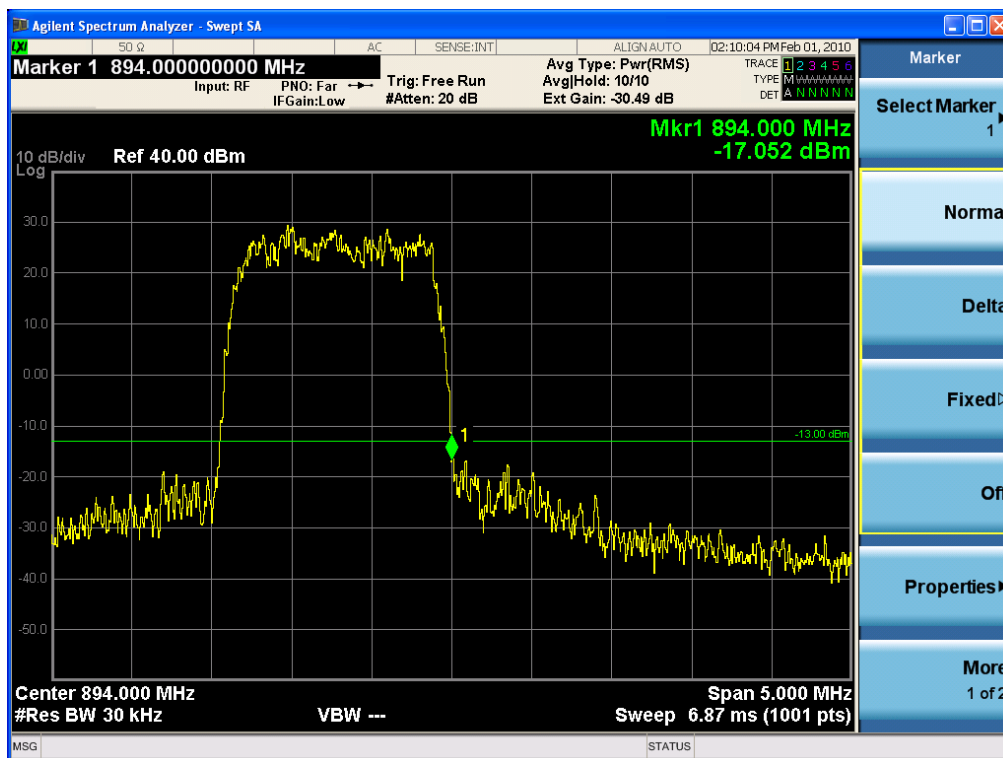
FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837



(Downlink Low CH-CDMA)

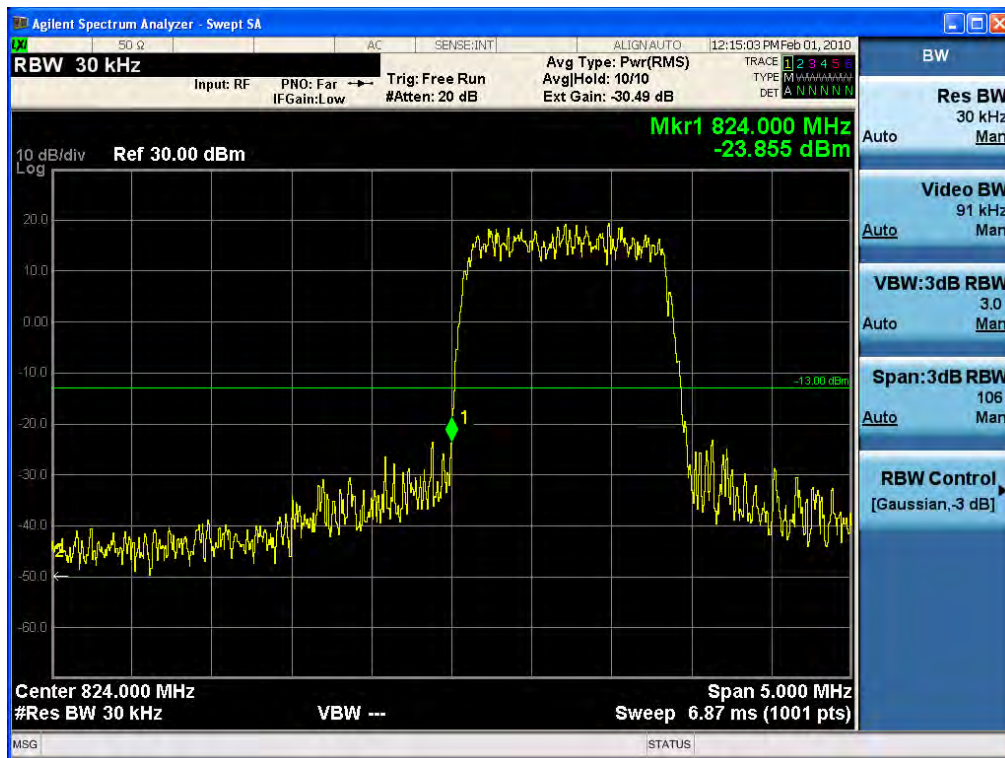


(Downlink High CH- CDMA)

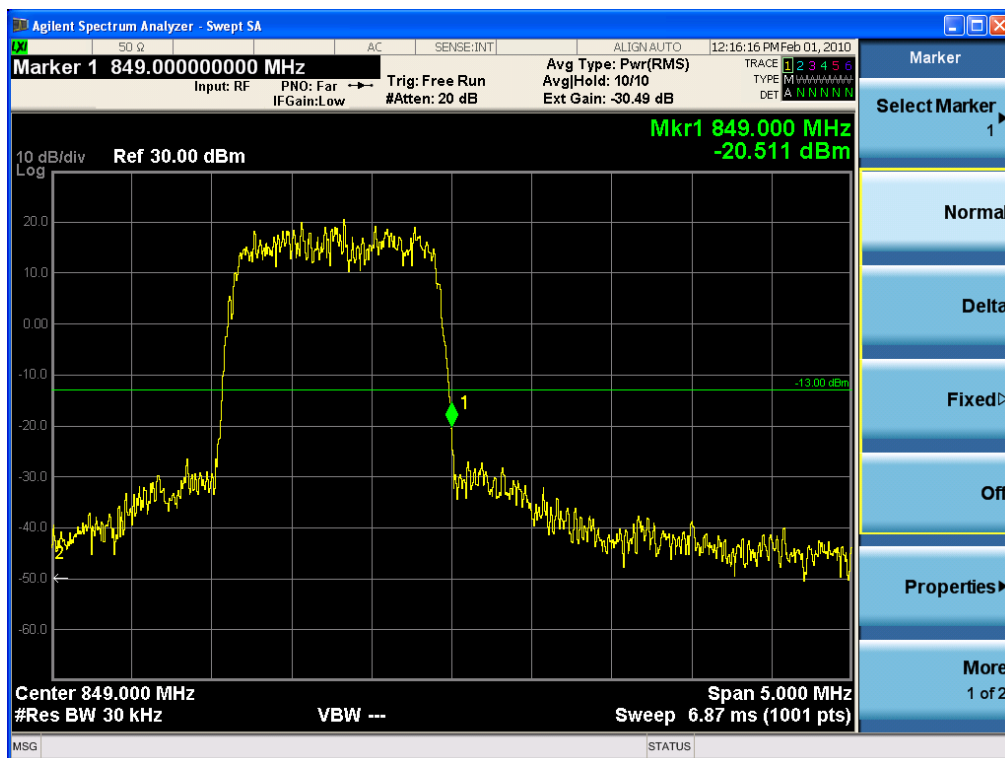


FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837

(Uplink Low CH- CDMA)

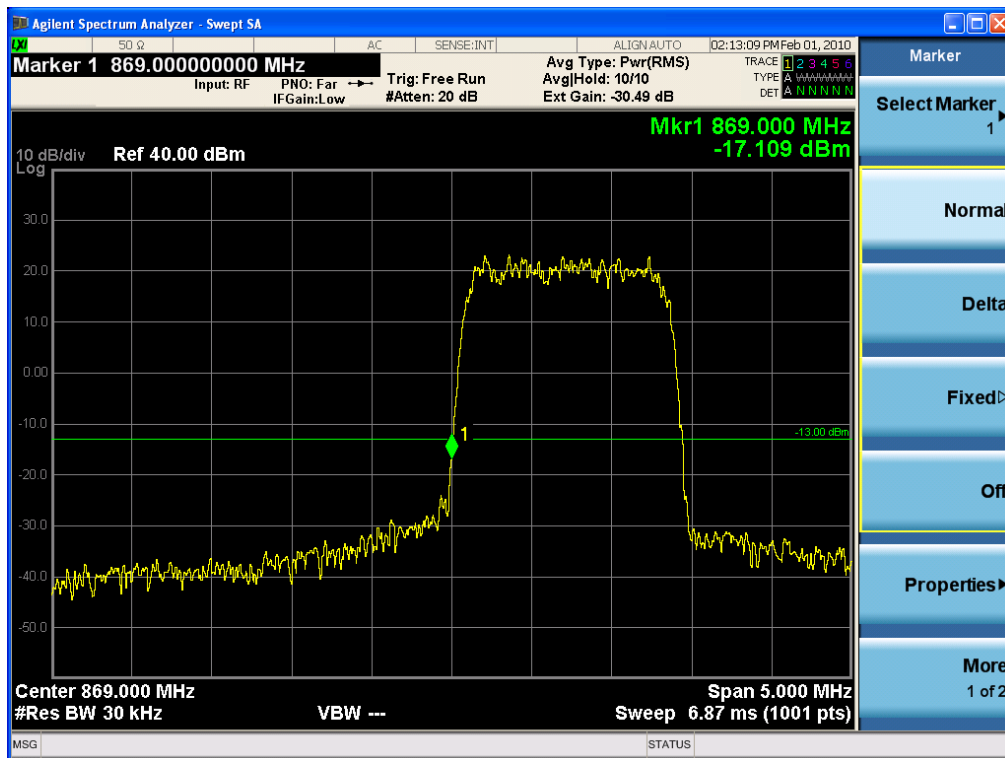


(Uplink High CH- CDMA)

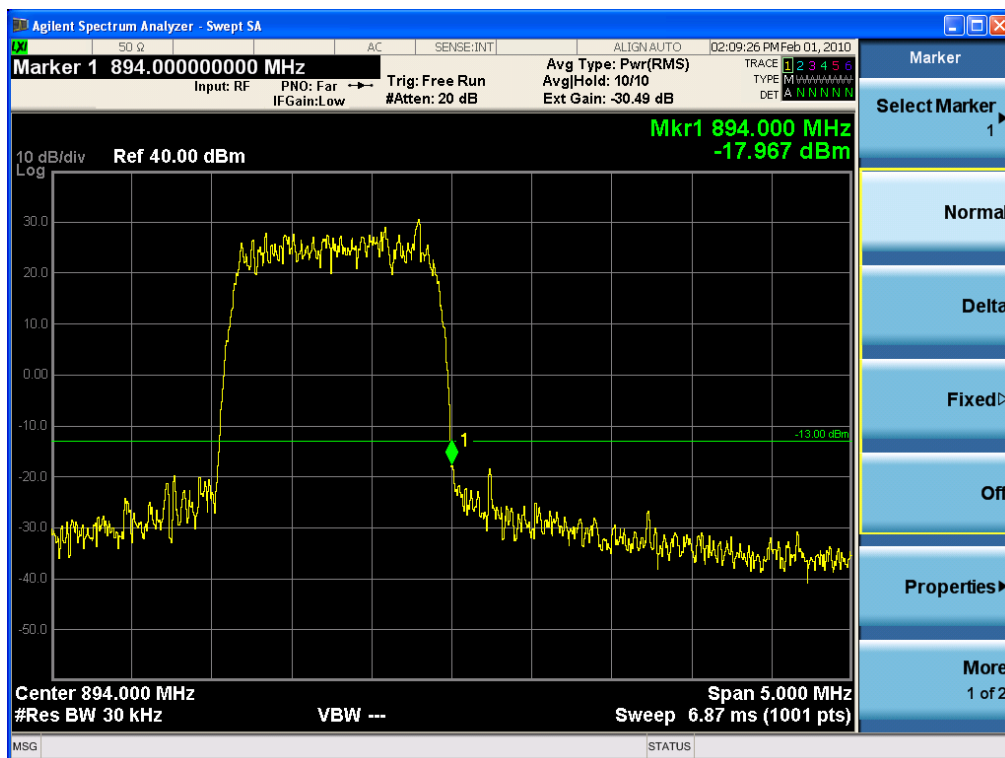


FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837

## (Downlink Low CH-CDMA EVDO)

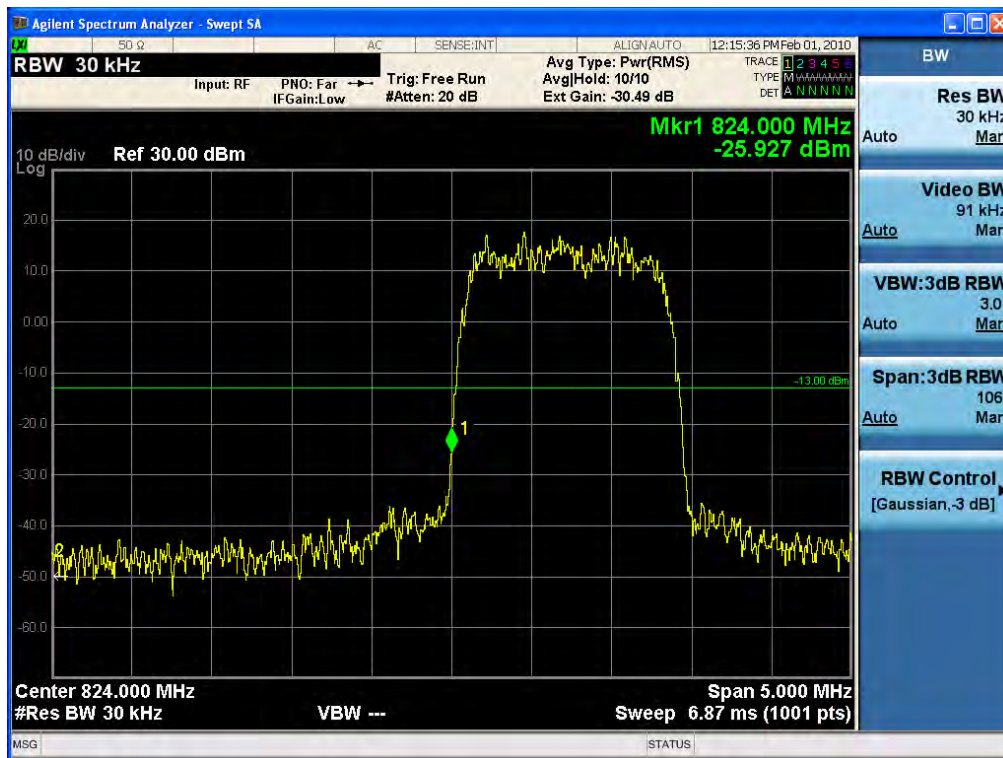


## (Downlink High CH- CDMA EVDO)

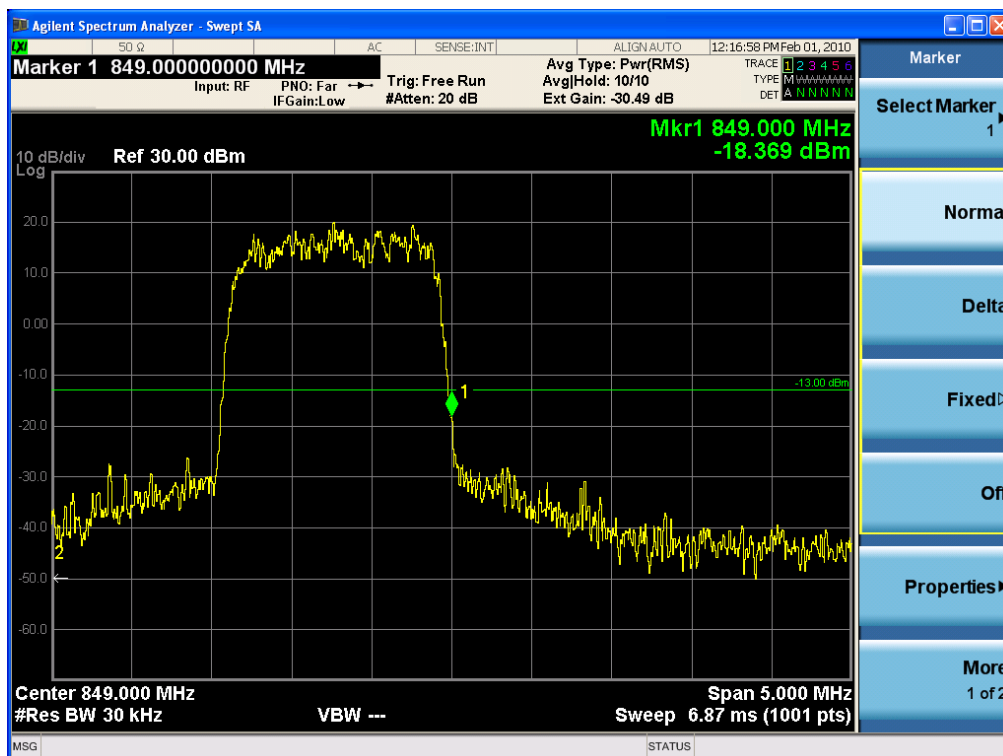


FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837

(Uplink Low CH- CDMA EVDO)



(Uplink High CH- CDMA EVDO)



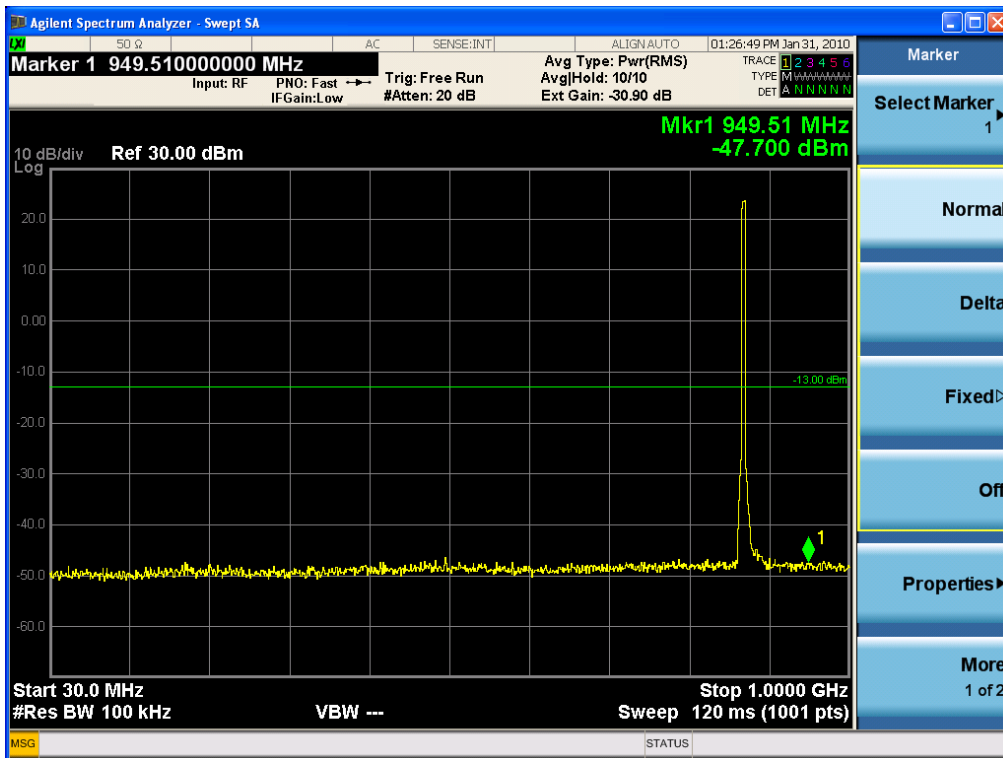
## FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

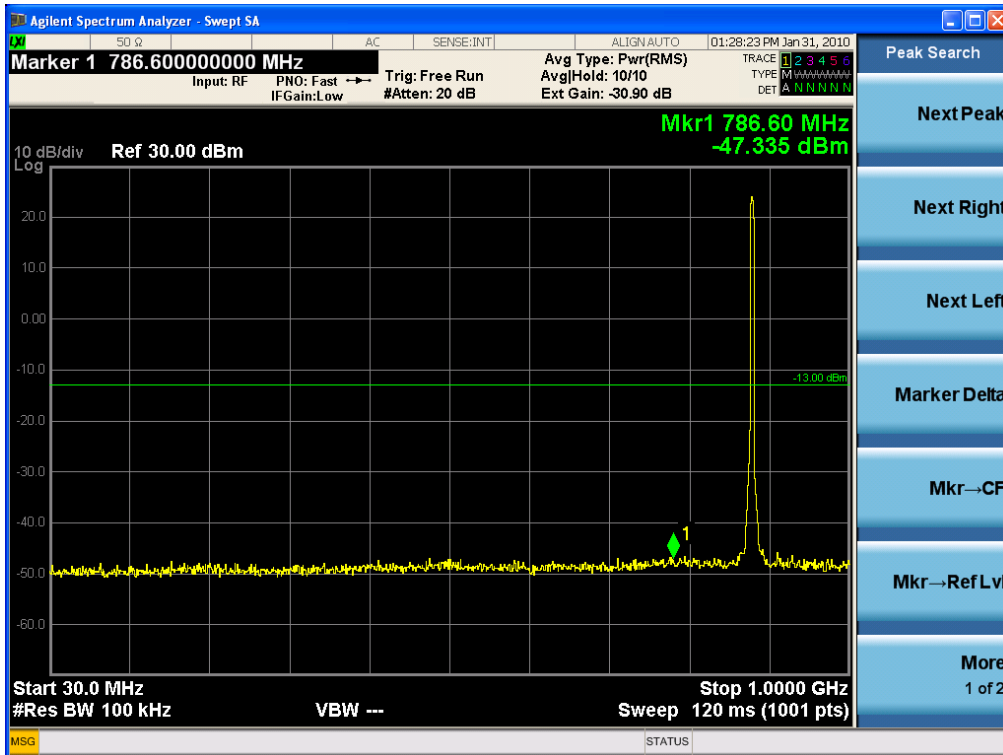
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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## Plots of Spurious Emission

### Conducted Spurious Emissions Downlink Low CH (30 MHz – 1 GHz-WCDMA)

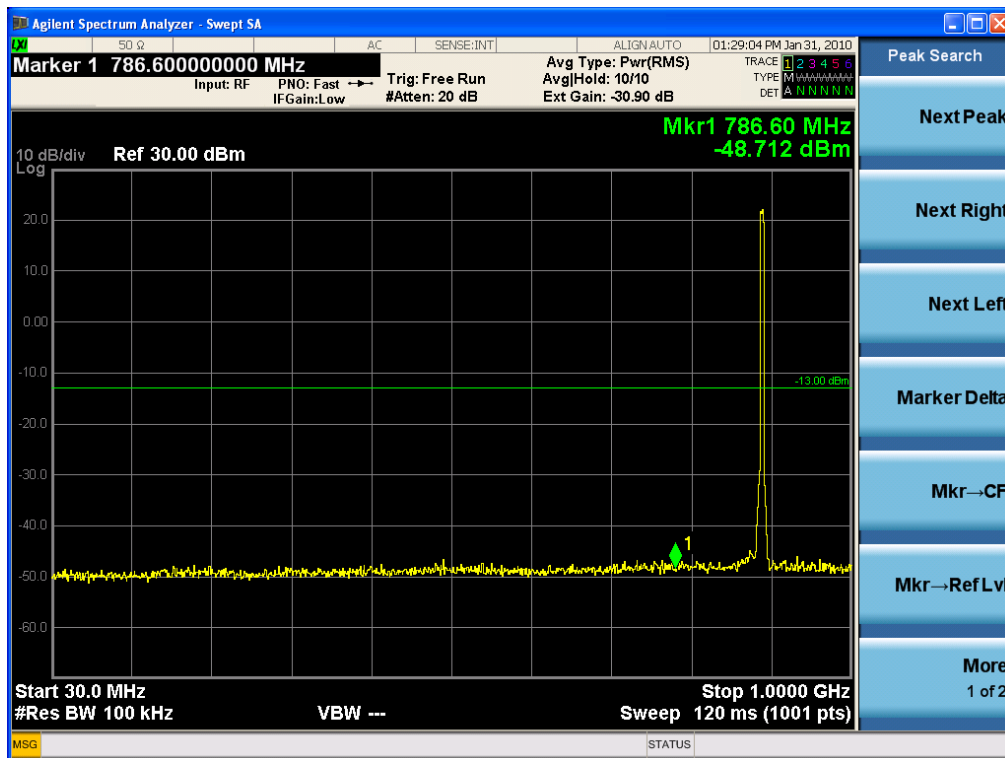


### Conducted Spurious Emissions Downlink Mid CH (30 MHz – 1 GHz- WCDMA)

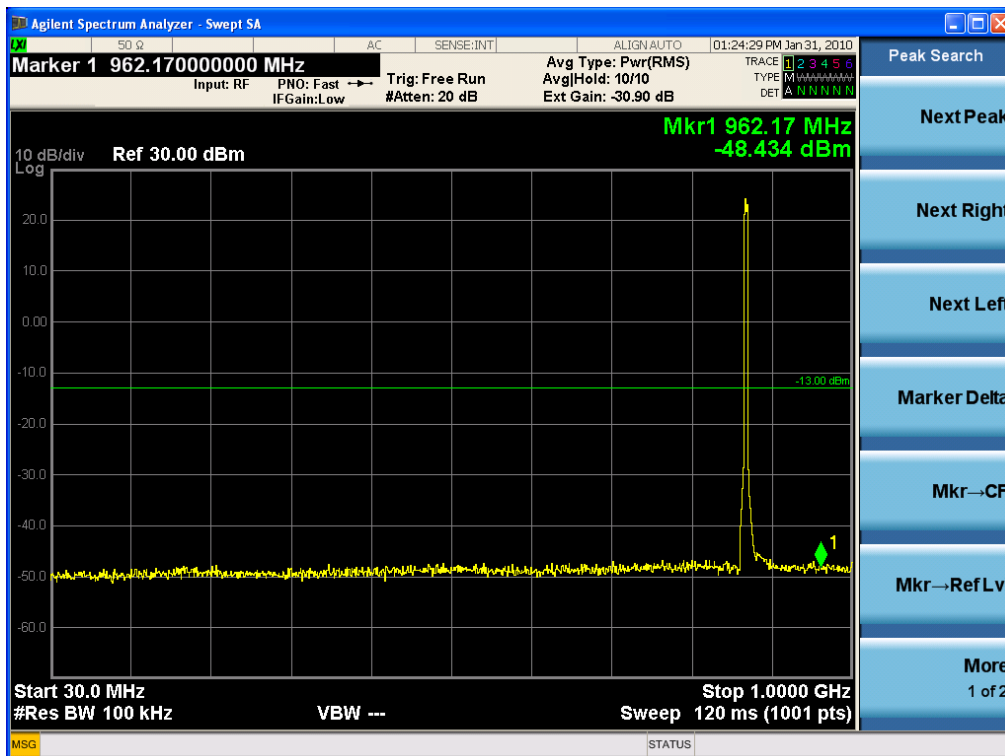


FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837

## Conducted Spurious Emissions Downlink High CH (30 MHz – 1 GHz- WCDMA)



## Conducted Spurious Emissions Downlink Low CH (30 MHz – 1 GHz-WCDMA HSDPA)



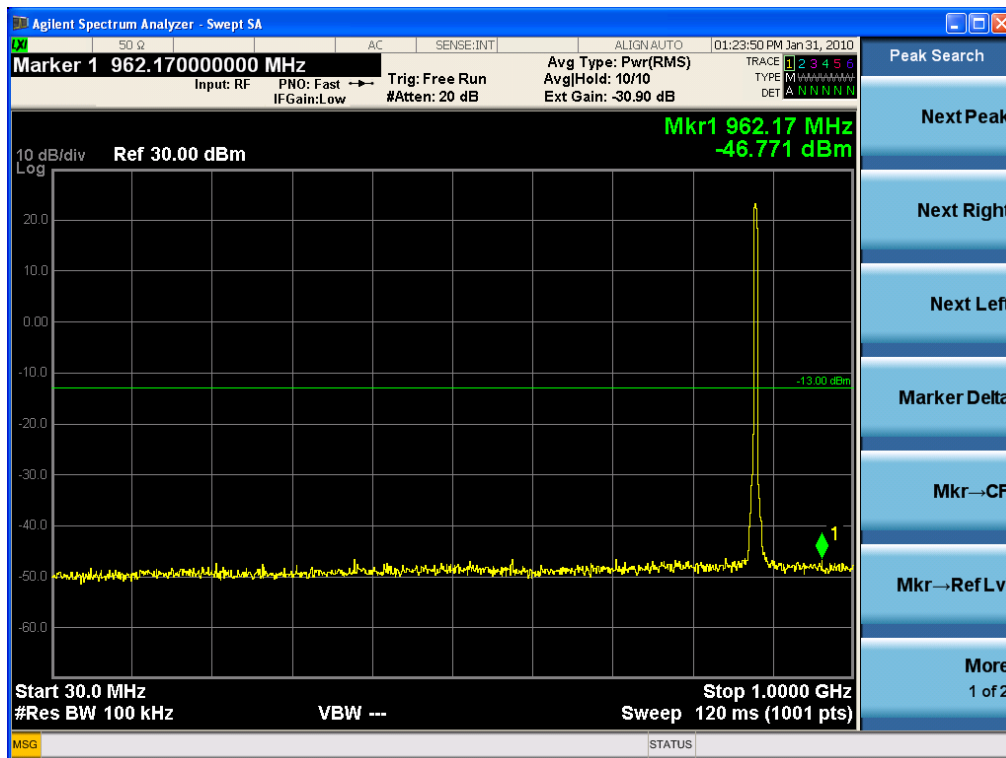
### FCC CERTIFICATION REPORT

[www.hct.co.kr](http://www.hct.co.kr)

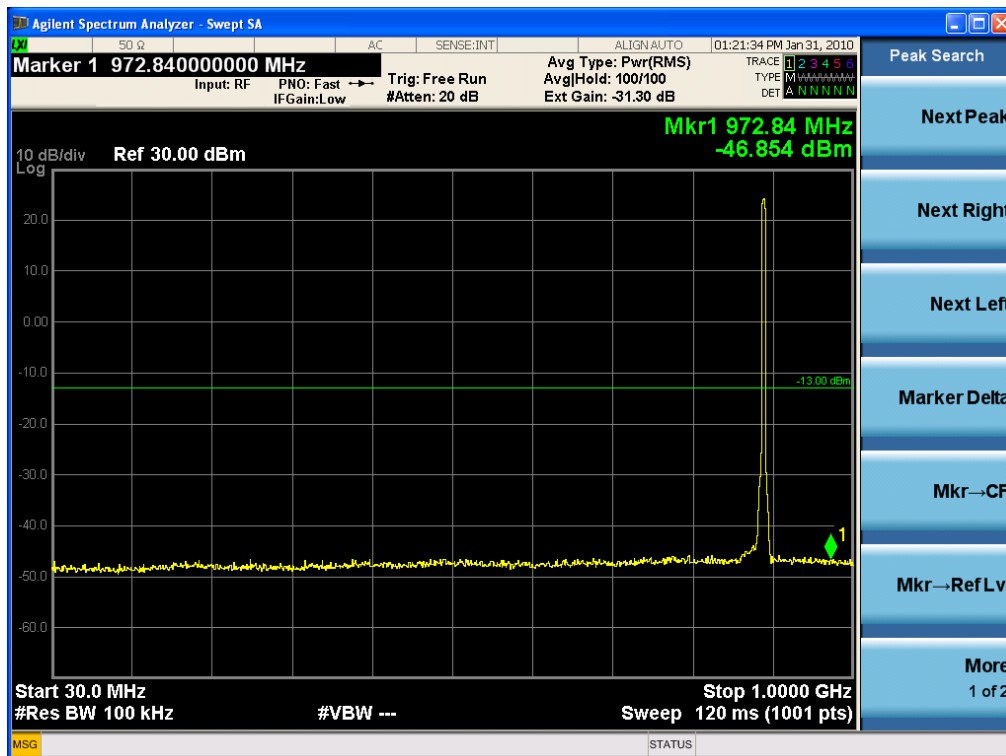
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837
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### Conducted Spurious Emissions Downlink Mid CH (30 MHz – 1 GHz- WCDMA HSDPA)



### Conducted Spurious Emissions Downlink High CH (30 MHz – 1 GHz- WCDMA HSDPA)



FCC CERTIFICATION REPORT			<a href="http://www.hct.co.kr">www.hct.co.kr</a>
Test Report No. HCTR1001FR09	Date of Issue: January 31, 2010	EUT Type: ICS-Digital Relay	FCC ID: X40-ICS-F0837