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Regulatory Compliance Group  
IT R&D Center  
416 Maetan3-Dong,  
Yeongtong-gu, Suwon city,  
Gyeonggi-Do, Korea 443-742

## FCC CFR47 PART 22 & 24 SUBPART CERTIFICATION REPORT

Model Tested: SCH-U750  
FCC ID (Requested): A3LSCHU750  
Report No: FH-114-R1  
Job No: FH-114  
Date issued: June 3, 2010

- Abstract -

All measurement reported here in accordance with FCC Rules, 47CFR  
Part2, Part22, Part24

**Prepared By**

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# MEASUREMENT REPORT

## 1. FCC Certification Information

The following information is in accordance with FCC Rules, 47CFR Part2, Subpart J, Sections 2.1033 – 2.1055.

### 1.1 §2.1033 General Information

- Applicant Name: SAMSUNG ELECTRONICS CO., LTD.
- Address: 416 Maetan3-Dong, Yeongtong-gu, Suwon City  
Gyeonggi-Do, Korea 443-742
  
- FCC ID: A3LSCHU750
  
- Model: SCH-U750
- Quantity: Quantity production is planned
- Emission Designators: 1M28F9W(CDMA), 1M27F9W(PCS CDMA)
  
- Tx Freq. Range: 824.70-848.31MHz (CDMA)  
1851.25-1908.75MHz (PCS CDMA)
  
- Rx Freq. Range: 869.70-893.31MHz (CDMA)  
1931.25-1988.75MHz (PCS CDMA)
  
- Max. Power Rating: 0.147 W ERP CDMA (21.68 dBm)  
0.325 W EIRP PCS (25.12 dBm)
  
- FCC Classification(s): PCS Licensed Portable Tx Held to Ear (PCE)
  
- Equipment (EUT) Type: Cellular/PCS CDMA Phone with Bluetooth and Ev-DO
- Modulation(s): CDMA
- Frequency Tolerance:  $\pm 0.00025\%$  (2.5ppm)
- FCC Rule Part(s): §24(E), §22(H), §2.
- Dates of Test: May 24-25, 2010
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FH-114-R1

## 2. INTRODUCTION

### 2.1 General

These measurement test were conducted at **SAMSUNG ELECTRONICS CO., LTD(SUWON)**.  
The site address is 416 Maetan3-Dong, Yeongtong-gu, Suwon City, Gyeonggi-Do, Korea 443-742  
The site have 1 Fully-anechoic chamber and measurement facility.

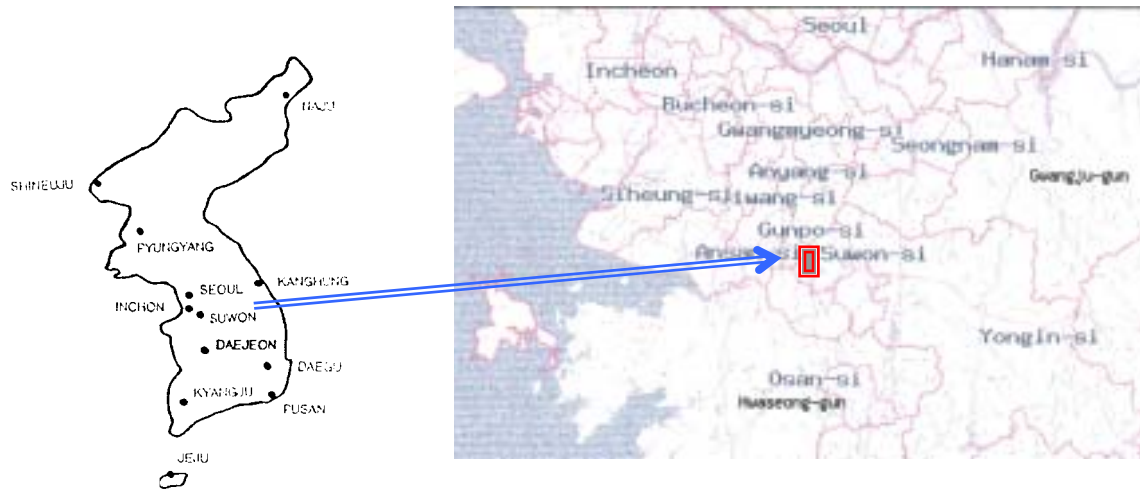
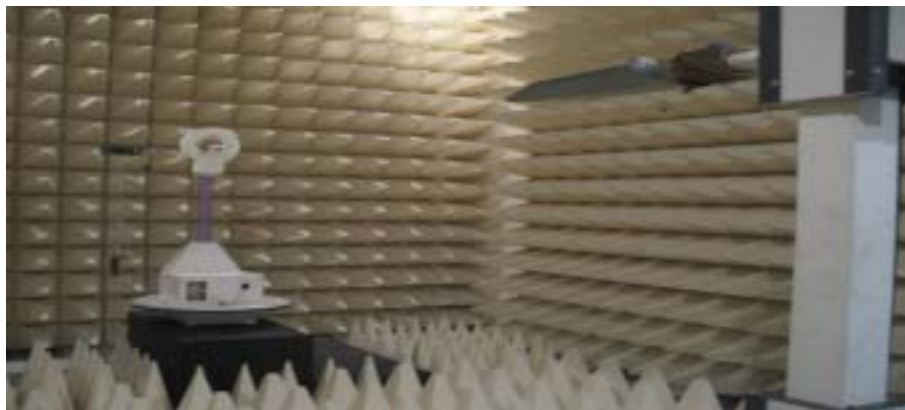


Figure1. Map of the Suwon City area.

#### **Measurement Procedure**

The radiated and spurious measurements were made Fully-anechoic chamber at a 3-meter test range (see Figure2). The equipment under testing was placed on the rotating device at the same height and at a distance of 3-meters from the receive antenna. The rotating device which can rotate horizontal axis was mounted on the turn unit to facilitate rotation around a vertical axis. The measurement was made for each horizontal/vertical position combination with receive antenna horizontally polarized. This measurement was repeated with receive antenna vertically polarized. The substitution antenna will replace the EUT antenna it the same position and in vertical polarization. The frequency of the signal generator shall be set to the frequencies that were measured on the EUT. The signal generator, output level, shall be adjusted until an equal or a known related level to what was measured from the EUT is obtained in the spectrum analyzer. This level was recorded. For readings above 1 GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic antenna are taken into consideration.





### **3. 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.

- End of page -



#### 4. TEST EQUIPMENT LIST

<b>Name Of Equipment</b>	<b>Model</b>	<b>Serial No.</b>	<b>Due Date</b>
Spectrum Analyzer	ESI26	836119/010	2010-10-20
	E4440A(3Hz~26.5GHz)	MY46187454	2011-03-08
	E4440A(3Hz~26.5GHz)	MY41000236	2011-04-13
Network Analyzer	8753E	JP38160590	2010-06-19
Pre-Amplifier	8449B	3008A00691	2010-12-15
Communication test set	8960	MY47510060	2011-03-08
	8960	GB42230535	2010-12-18
Controller	CO2000	CO2000/424	Not Required
Turn Unit	CT0800	CT0800/057	Not Required
Rotating Device	DE3600-RH-PR	DE3600-RH-PR/050	Not Required
Antenna Master	MA4000	MA4000/204	Not Required
Horn Antenna	HF906	360306/011	2010-06-13
Dipole Antenna	UHA 9105	9105-2412	2011-10-06
	UHA 9105	9105-2413	2010-06-13
Power Supply	E3640A	MY40003594	2010-06-19
	E3640A	MY40003595	2010-06-19
	E3632A	MY40022438	2011-03-05
Divider	11636B	51946	2011-06-25
	11636B	51942	2011-07-09
	11636B	56918	2011-08-31
High Pass Filter	WHK/3.0/18G-10SS	492	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Environmental Chamber	SH-241	92000549	2010-11-11
	SH-241	92000548	2010-11-11
Shielded Fully Anechoic Chamber	CHAMBER	ANT0001	Not Required



## 5. DESCRIPTION OF TESTS

### 5.1 Output Power Variation

#### Test Condition to measure the Output Power

This device was tested under all R.C.s and S.O.s and worst case is reported with RC3/SO55, with “All Up” power control bits.

The following procedures were followed according to FCC “SAR Measurement Procedures for 3G Devices”, May 2007.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 5-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH0 and demodulation of RC 3,4 or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH0 data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 5-2 was applied.
5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23MHz	-104
Pilot Ec/Ior	dB	-7
Traffic Ec/Ior	dB	-7.4

**Table 5-1**  
**Parameters for Max. Power for RC1**

Parameter	Units	Value
$\hat{I}_{or}$	dBm/1.23MHz	-86
Pilot Ec/Ior	dB	-7
Traffic Ec/Ior	dB	-7.4

**Table 5-2**  
**Parameters for Max. Power for RC1**

Band	Channel	CDMA2000 RC	SO2	SO55	TDSO SO32 (F-SCH)	TDSO SO32 (F+SCH)	1x EV-DO
Cellular	1013	RC1	25.01	24.99	-	-	-
		RC3	24.94	24.95	24.97	25.04	24.89
	384	RC1	24.95	24.95	-	-	-
		RC3	24.91	24.92	24.87	24.91	24.84
	777	RC1	24.99	25.04	-	-	-
		RC3	24.95	24.96	24.95	25.05	24.98
PCS	25	RC1	25.03	25.02	-	-	-
		RC3	25.04	25.03	25.04	25.05	25.05
	600	RC1	25.02	25.04	-	-	-
		RC3	25.10	25.11	25.08	25.07	25.05
	1175	RC1	25.01	24.97	-	-	-
		RC3	24.99	25.04	24.98	25.06	25.08

**Table 5-3**  
**Maximum Power Output Table for SCH-U750**

## 5.2 Effective Radiated Power / Equivalent Isotropic Radiated Power

### Test Set-up for the ERP/EIRP TEST

Effective Radiated Power Output and Equivalent Isotropic Radiated Power output Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004

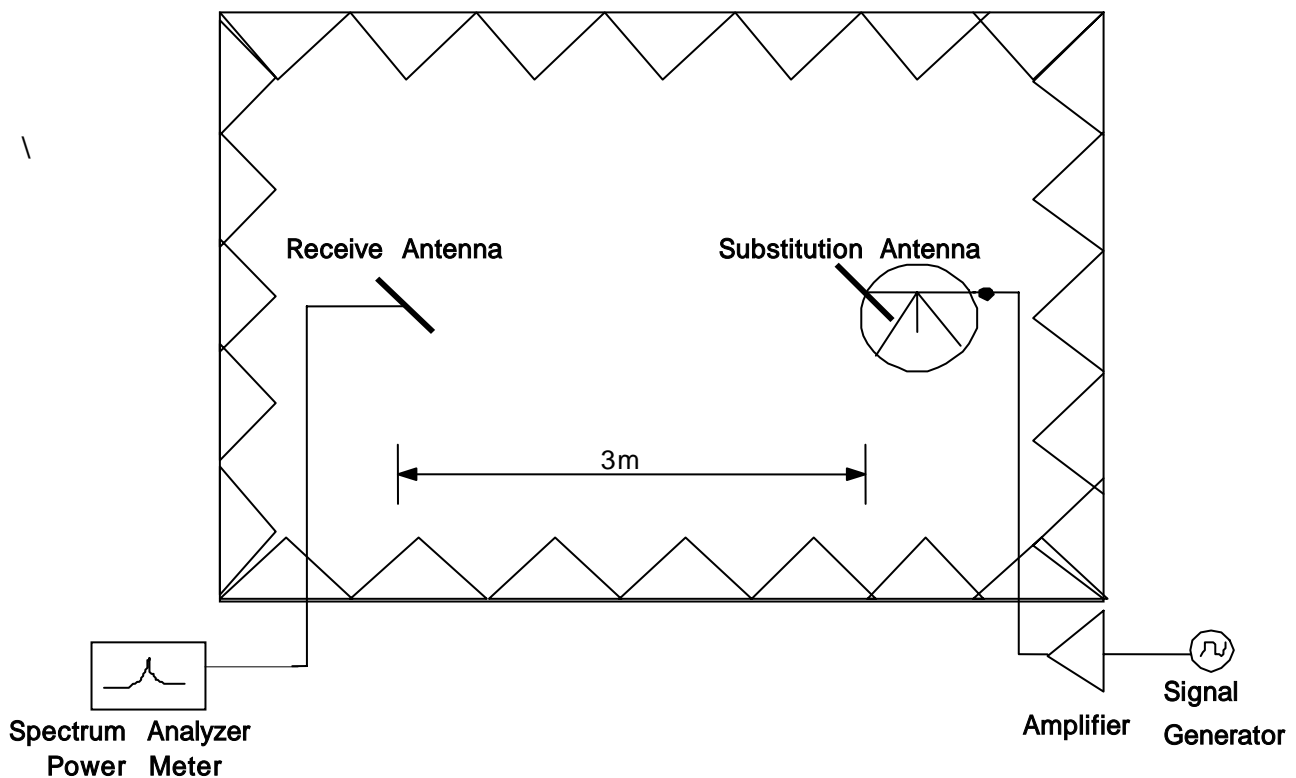


Figure 3. Diagram of ERP/EIRP test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna. The turn unit and rotating device was adjusted for the highest reading on the receive spectrum analyzer. For CDMA & PCS signals, an average detector is used, with RBW=VBW=3MHz, SPAN=10MHz. 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 dipole is measured. The ERP and EIRP are recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

## 5.3 Radiated Spurious & Harmonic Emission

### Test Set-up for the Radiated Emission TEST

Radiated Spurious Emission Measurements by Substitution Method according to ANSI/TIA/EIA-603-C-2004

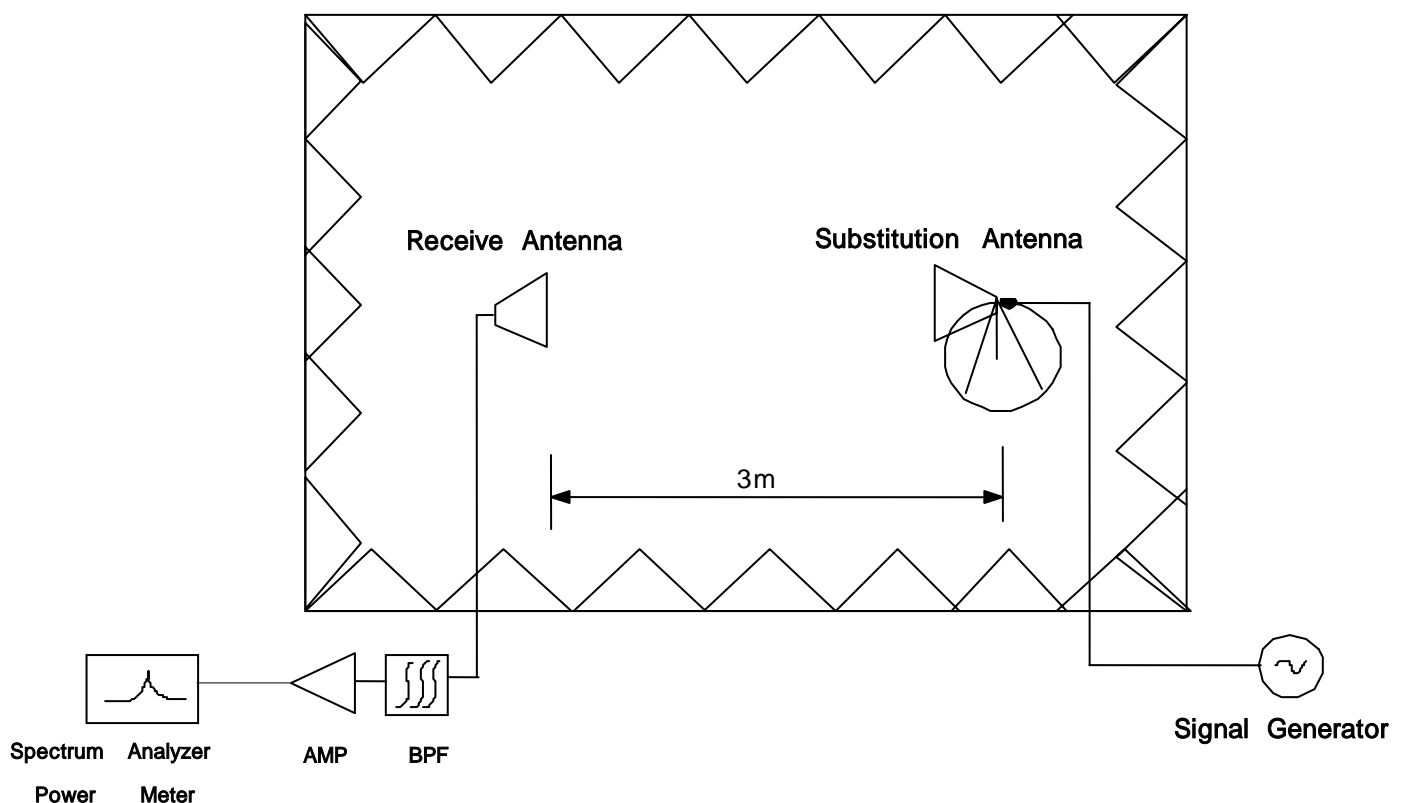


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on the rotating device at 3-meters from the receive antenna. The turn unit and rotating device was adjusted for the highest reading on the receive spectrum analyzer. The Spectrum was investigated from 30MHz to the 10<sup>th</sup> Harmonic of the fundamental. A peak detector is used, with RBW=VBW=1MHz. The value that we could measure was only reported. 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. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.



## **SAMPLE CALCULATION**

### **Example: Channel 600 PCS Mode 2<sup>nd</sup> Harmonic(3760MHz)**

The receive analyzer reading at 3meters with the EUT on the turntable was  $-81.0\text{dBm}$ . The gain of the substituted antenna is  $8.1\text{dBi}$ . The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of  $-81.0\text{dBm}$  of the receive analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is  $2.0\text{dB}$  at 3760MHz. So  $6.1\text{dB}$  is added to the signal generator reading of  $-30.9\text{dBm}$  yielding  $-24.8\text{dBm}$ . The fundamental EIRP was  $25.5\text{dBm}$  so this harmonic was  $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$ .

## **5.4 Peak-Average Ratio**

A peak to average ratio measurement is performed at the conducted port of the EUT. An average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth.

- End of page -

## 5.5 Occupied Bandwidth

### **Test Procedure**

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

Plots of the EUT's occupied bandwidth are shown herein.

## 5.6 Spurious and Harmonic Emissions at Antenna Terminal

### 5.6.1 Occupied Bandwidth Emission Limits

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB.
- (b) Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.
- (c) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (d) The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

– End of page –

BLOCK	Freq. Range (MHz) Transmitter (Tx)	Freq. Range (MHz) Receiver (Rx)
A	1850 – 1865	1930 – 1945
B	1870 – 1885	1950 – 1965
C	1895 – 1910	1975 – 1990
D	1865 – 1870	1945 – 1950
E	1885 – 1890	1965 – 1970
F	1890 – 1895	1970 – 1975

**Table 1. Broadband PCS Service Frequency Blocks**

BLOCK	Freq. Range (MHz) Transmitter (Tx)	Freq. Range (MHz) Receiver (Rx)
A* Low + A	824 – 835	869 – 880
B	835 – 845	880 – 890
A* High	845 – 846.5	890 – 891.5
B*	846.5 – 849	891.5 – 894

**Table 2. Cellular Service Frequency Blocks**

### 5.6.2 Conducted Spurious Emission

**Minimum standard:**

On any frequency outside a license frequency block, the power of any emission shall be attenuated below the transmitter power(P) by at least  $43+10\log (P)$ dB. Limit equivalent to  $-13$ dBm, calculation shown below.

$$43 + 10\log ( 0.333 \text{ W} ) = 38.22\text{dB}$$

$$25.22 \text{ dBm} - 38.22 \text{ dB} = -13 \text{ dBm}$$

**Test Procedure:**

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 1MHz bands immediately outside and adjacent to the edge of the frequency block. The measurements are repeated for the EUT’s highest channel. For the Out-of-Band measurements a 1MHz RBW was used to scan from 10MHz to 10GHz. (PCS Mode : 10MHz to 20GHz). 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.

Plots are shown herein.

## 5.7 Frequency Stability / Temperature Variation

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is carried from -30°C to +60°C using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% 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 shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025$  ( $\pm 2.5$ ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27°C to provide a reference).
2. The equipment is subjected to an overnight "soak" at -30°C without any power applied.
3. After the overnight "soak" at -30°C (Usually 14~16 hours), 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 and the individual oscillators is made within a three minute interval after applying to the transmitter.
4. Frequency measurements are made at 10°C interval up to room temperature. At least a period of one and one half-hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency measurements are at 10 intervals starting at -30°C up to +60°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after re-applying power to the transmitter.
  - The artificial load is mounted external to the temperature chamber.

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

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## 6. TEST DATA

### 6.1 Effective Radiated Power(E.R.P.)

**Supply Voltage : 3.7VDC**

**Modulation : CDMA**

**Reference level**

Frequency (MHz)	Output (dBm)	Polarization	P/M (dBm)	Ant gain (dBd)	Ref level (dBm)
824.70	21.00	H	-15.56	-0.67	-14.89
		V	-16.40	-0.67	-15.73
836.52	20.00	H	-17.03	-0.73	-16.30
		V	-17.31	-0.73	-16.58
848.31	22.00	H	-17.23	-0.79	-16.44
		V	-16.40	-0.79	-15.61

**Result**

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-14.95	H	296/70	20.94	0.124	Standard
836.52	-15.98	H	293/35	20.32	0.108	Standard
848.31	-16.76	H	298/65	21.68	0.147	Standard
Extended	-17.23	H	298/65	21.25	0.133	Extended

- All modes of operation were investigated, and the worst-case results are reported.

**Radiated measurements at 3 meters by Substitution Method**



## 6.2 Equivalent Isotropic Radiated Power(E.I.R.P.)

Supply Voltage : 3.7VDC

Modulation : PCS

Reference level

Frequency (MHz)	Output (dBm)	Polarization	P/M (dBm)	Ant gain (dBi)	Ref level (dBm)
1851.25	25.00	H	-14.32	9.60	-23.92
		V	-13.91	9.60	-23.51
1880.00	25.00	H	-13.95	9.60	-23.55
		V	-14.32	9.60	-23.92
1908.75	25.00	H	-14.49	9.60	-24.09
		V	-14.17	9.60	-23.77

Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-24.02	H	256/0	24.90	0.309	Standard
1880.00	-23.85	H	100/180	24.70	0.295	Standard
1908.75	-23.97	H	258/10	25.12	0.325	Standard
Extended	-24.15	H	258/10	24.94	0.312	Extended

- All modes of operation were investigated, and the worst-case results are reported.

**Radiated measurements at 3 meters by Substitution Method**



## 6.3 Cellular CDMA Radiated Spurious & Harmonic measurement

### Field Strength of SPURIOUS Radiation

Operating Frequency : 824.70 MHz(Low), 836.52MHz(Middle), 848.31MHz(High)

Measured Output Power : 21.68 dBm = 0.147 W

Modulation Signal : CDMA

$$\text{Limit : } 43 + 10\log_{10}(P) = 34.68 \text{ dBc}$$

### Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-54.42	H	64.00
	3	2474.10	-56.97	H	62.09
	4	3298.80	-66.38	H	68.24
	5	4123.50	-	-	-
	6	4948.20	-	-	-
	7	5772.90	-	-	-
384	2	1673.04	-55.79	H	64.87
	3	2509.56	-53.41	H	58.54
	4	3346.08	-66.73	V	67.95
	5	4182.68	-	-	-
	6	5019.12	-	-	-
	7	5855.64	-	-	-
777	2	1696.62	-50.64	H	59.51
	3	2544.93	-53.71	H	58.95
	4	3393.24	-67.68	V	69.04
	5	4241.55	-	-	-
	6	5089.86	-	-	-
	7	5938.17	-	-	-

### Radiated Spurious Emission measurements at 3 meters by Substitution Method



## 6.4 PCS CDMA Radiated Spurious & Harmonic measurement

### Field Strength of SPURIOUS Radiation

Operating Frequency : 1851.25 MHz(Low), 1880.00 MHz(Middle), 1908.75MHz(High)

Measured Output Power : 25.12 dBm = 0.325 W

Modulation Signal : PCS

**Limit :  $43 + 10\log_{10}(P) = 38.12$  dBc**

### Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
25	2	3702.50	-59.71	H	60.89
	3	5553.75	-63.07	V	58.39
	4	7405.55	-68.68	V	59.84
	5	9256.25	-	-	-
	6	11107.50	-	-	-
	7	12958.75	-	-	-
600	2	3760.00	-57.41	H	58.45
	3	5640.00	-64.02	V	59.06
	4	7520.00	-68.17	V	59.34
	5	9400.00	-	-	-
	6	11280.00	-	-	-
	7	13160.00	-	-	-
1175	2	3817.50	-54.79	H	54.89
	3	5726.25	-63.69	V	58.32
	4	7635.00	-67.25	H	58.08
	5	9543.75	-	-	-
	6	11452.50	-	-	-
	7	13361.25	-	-	-

### **Radiated Spurious Emission measurements at 3 meters by Substitution Method**



## 6.5 CDMA Radiated Spurious & Harmonic Conversion Table

Date : 2010. 05. 25

Test Engineer : JH HAN

Tx Cable loss  
 Tx Horn Ant Gain  
 Tx Level to radiate -13dBm  
 ESI Level received from Tx with -13dBm  
 Tested Level from EUT  
 = ERP+2.15 - (-13 + - )

CH	Har	Frequency (MHz)	Tx C/L dB	Tx Horn Gain dBi	Tx Level dBm	ESI Level : H dBm	ESI Level : V dBm	Tested EUT Level : H dBm	Tested EUT Level : V dBm	Result EUT : H (dBc)	Result EUT : V (dBc)
1013	2	1649.40	-9.02	9.50	-13.50	-27.24	-27.10	-54.42	-57.67	64.00	67.39
	3	2474.10	-11.41	10.70	-12.30	-31.70	-31.45	-56.97	-59.68	62.09	65.05
	4	3298.80	-13.59	12.30	-11.70	-34.96	-35.43	-66.38	-67.03	68.24	68.42
	5	4123.50	-15.15	12.50	-10.30	-38.60	-38.90	-	-	-	-
	6	4948.20	-16.71	12.70	-9.00	-40.65	-40.69	-	-	-	-
	7	5772.90	-18.17	12.90	-7.70	-43.29	-43.30	-	-	-	-
384	2	1673.04	-9.07	9.50	-13.40	-27.74	-28.63	-55.79	-57.09	64.87	65.28
	3	2509.56	-11.43	10.70	-12.30	-31.69	-31.64	-53.41	-55.87	58.54	61.05
	4	3346.08	-13.78	12.30	-11.50	-35.46	-35.60	-67.38	-66.73	68.74	67.95
	5	4182.68	-15.26	12.50	-10.20	-38.67	-39.11	-	-	-	-
	6	5019.12	-16.94	12.70	-8.80	-41.28	-41.32	-	-	-	-
	7	5855.64	-18.23	12.90	-7.70	-43.94	-43.84	-	-	-	-
777	2	1696.62	-9.08	9.50	-13.40	-27.95	-27.75	-50.64	-52.17	59.51	61.24
	3	2544.93	-11.41	10.70	-12.30	-31.58	-32.94	-53.71	-56.75	58.95	60.63
	4	3393.24	-13.82	12.30	-11.50	-35.17	-35.46	-67.81	-67.68	69.46	69.04
	5	4241.55	-15.38	12.50	-10.10	-38.81	-39.07	-	-	-	-
	6	5089.86	-17.06	12.70	-8.60	-41.51	-41.42	-	-	-	-
	7	5938.17	-18.41	12.90	-7.50	-43.83	-43.32	-	-	-	-



## 6.6 PCS Radiated Spurious & Harmonic Conversion Table

Date : 2010. 05. 25

Test Engineer : JH HAN

Tx Cable loss  
 Tx Horn Ant Gain  
 Tx Level to radiate -13dBm  
 ESI Level received from Tx with -13dBm  
 Tested Level from EUT  
 = EIRP - (-13 + - )

CH	Har	Frequency (MHz)	Tx C/L dB	Tx Horn Gain dBi	Tx Level dBm	ESI Level : H dBm	ESI Level : V dBm	Tested EUT Level : H dBm	Tested EUT Level : V dBm	Result EUT : H (dBc)	Result EUT : V (dBc)
25	2	3702.50	-14.91	12.40	-10.50	-36.94	-36.57	-59.71	-59.91	60.89	61.46
	3	5553.75	-17.69	12.90	-8.20	-42.68	-42.80	-65.04	-63.07	60.48	58.39
	4	7405.00	-20.43	10.50	-3.10	-47.33	-46.96	-69.14	-68.68	59.93	59.84
	5	9256.25	-23.63	11.20	-0.60	-51.79	-50.45	-	-	-	-
	6	11107.50	-26.86	11.60	2.30	-54.95	-55.26	-	-	-	-
	7	12958.75	-28.80	12.90	2.90	-58.88	-58.56	-	-	-	-
600	2	3760.00	-15.19	12.40	-10.20	-37.08	-37.05	-57.41	-60.77	58.45	61.84
	3	5640.00	-17.78	12.90	-8.10	-42.73	-43.08	-66.16	-64.02	61.55	59.06
	4	7520.00	-20.67	10.60	-2.90	-47.12	-46.95	-68.71	-68.17	59.71	59.34
	5	9400.00	-23.23	11.60	-1.40	-51.75	-52.22	-	-	-	-
	6	11280.00	-26.34	12.10	1.20	-55.98	-56.30	-	-	-	-
	7	13160.00	-28.12	12.80	2.30	-59.32	-58.91	-	-	-	-
1175	2	3817.50	-14.23	12.40	-11.20	-38.02	-38.68	-54.79	-62.92	54.89	62.36
	3	5726.25	-18.11	13.00	-7.90	-43.48	-43.49	-66.02	-63.69	60.66	58.32
	4	7635.00	-21.16	11.20	-3.00	-47.29	-47.44	-67.25	-67.89	58.08	58.57
	5	9543.75	-23.54	11.70	-1.20	-52.60	-52.08	-	-	-	-
	6	11452.50	-26.84	11.70	2.10	-56.26	-56.23	-	-	-	-
	7	13361.25	-28.23	12.30	2.90	-60.44	-59.84	-	-	-	-



## 6.7 Frequency Stability

### 6.7.1 CDMA Frequency Stability Table

Operating Frequency : 836,520,000 Hz

Channel : 384

Reference Voltage : 3.7VDC

**Deviation Limit :  $\pm 0.00025$  % or 2.5ppm**

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	10.00	836,520,010	0.000001	0.012
100%		-30	10.10	836,520,010	0.000001	0.012
100%		-20	-17.70	836,519,982	-0.000002	-0.021
100%		-10	20.30	836,520,020	0.000002	0.024
100%		0	31.80	836,520,032	0.000004	0.038
100%		+10	-31.00	836,519,969	-0.000004	-0.037
100%		+20	10.00	836,520,010	0.000001	0.012
100%		+30	5.40	836,520,005	0.000001	0.006
100%		+40	36.30	836,520,036	0.000004	0.043
100%		+50	-38.40	836,519,962	-0.000005	-0.046
100%		+60	27.00	836,520,027	0.000003	0.032
85%	3.35	+20	22.70	836,520,023	0.000003	0.027
115%	4.26	+20	-22.50	836,519,978	-0.000003	-0.027
Batt. Endpoint	3.35	+20	22.70	836,520,023	0.000003	0.027

**Note : The temperature is varied from -30 °C to +60 °C using an environmental chamber.**

**The EUT is tested down to the battery end point**



### 6.7.2 PCS Frequency Stability Table

Operating Frequency : 1,880,000,000 Hz

Channel : 600

Reference Voltage : 3.7VDC

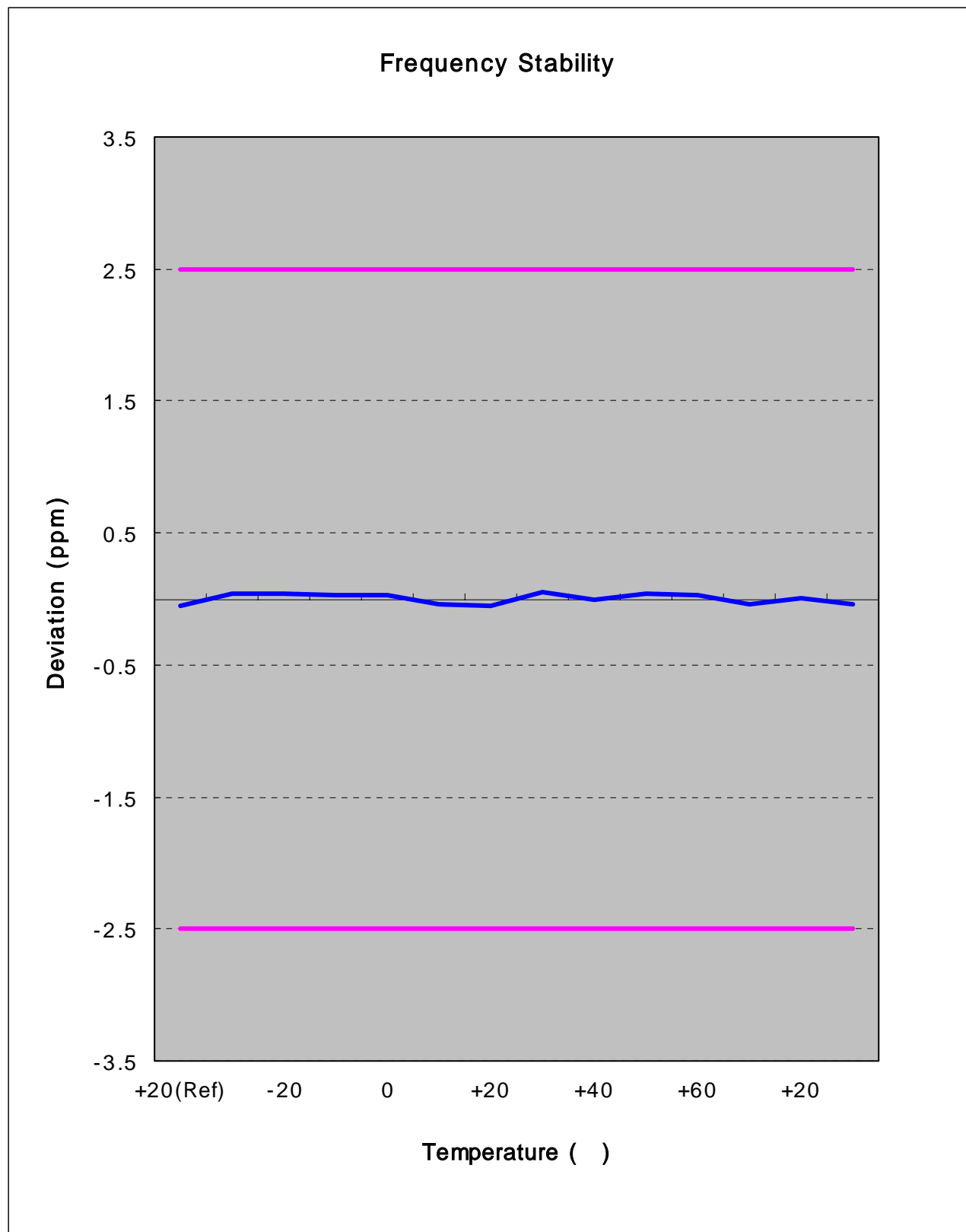
**Deviation Limit :  $\pm 0.00025$  % or 2.5ppm**

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	36.00	1,880,000,036	0.000002	0.019
100%		-30	-9.10	1,879,999,991	0.000000	-0.005
100%		-20	-9.40	1,879,999,991	-0.000001	-0.005
100%		-10	-11.50	1,879,999,989	-0.000001	-0.006
100%		0	29.10	1,880,000,029	0.000002	0.015
100%		+10	-31.30	1,879,999,969	-0.000002	-0.017
100%		+20	36.00	1,880,000,036	0.000002	0.019
100%		+30	38.30	1,880,000,038	0.000002	0.020
100%		+40	-1.40	1,879,999,999	0.000000	-0.001
100%		+50	16.50	1,880,000,017	0.000001	0.009
100%		+60	20.30	1,880,000,020	0.000001	0.011
85%	3.35	+20	-19.60	1,879,999,980	-0.000001	-0.010
115%	4.26	+20	-13.70	1,879,999,986	-0.000001	-0.007
Batt. Endpoint	3.35	+20	-19.60	1,879,999,980	-0.000001	-0.010

**Note : The temperature is varied from -30 °C to +60 °C using an environmental chamber.**

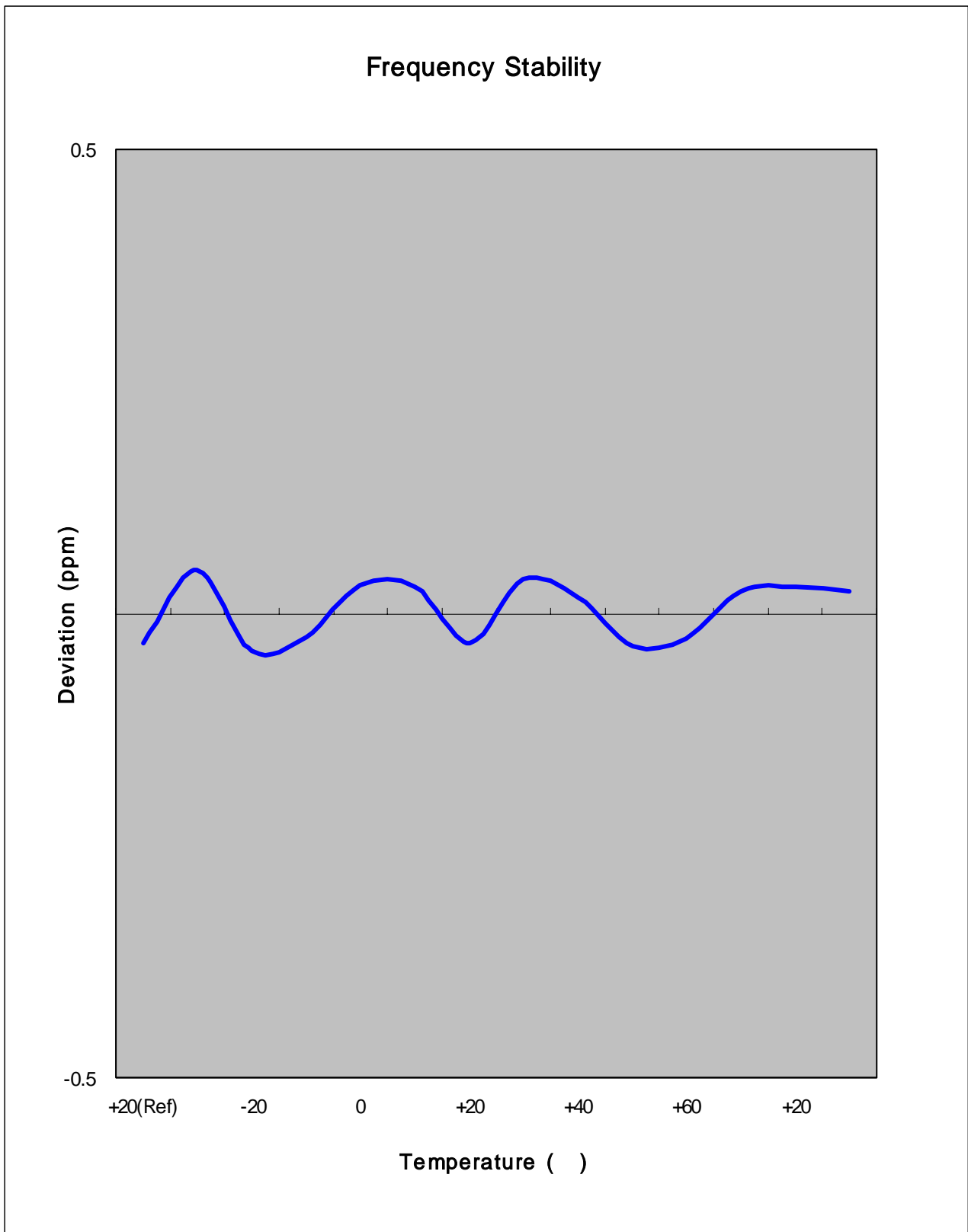
**The EUT is tested down to the battery end point**

### 6.7.3 CDMA Frequency Stability Graph



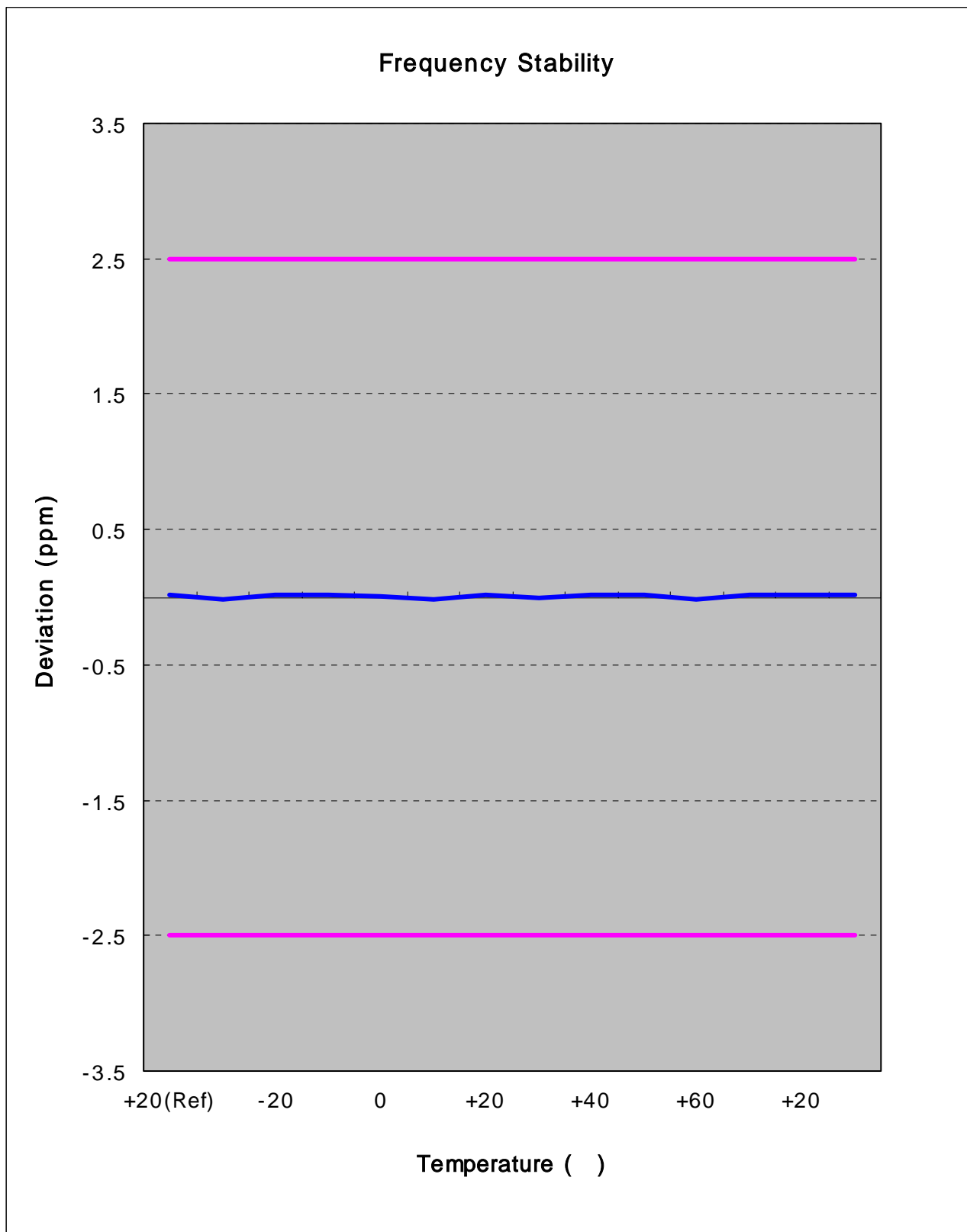
- End of page -

Zoom In



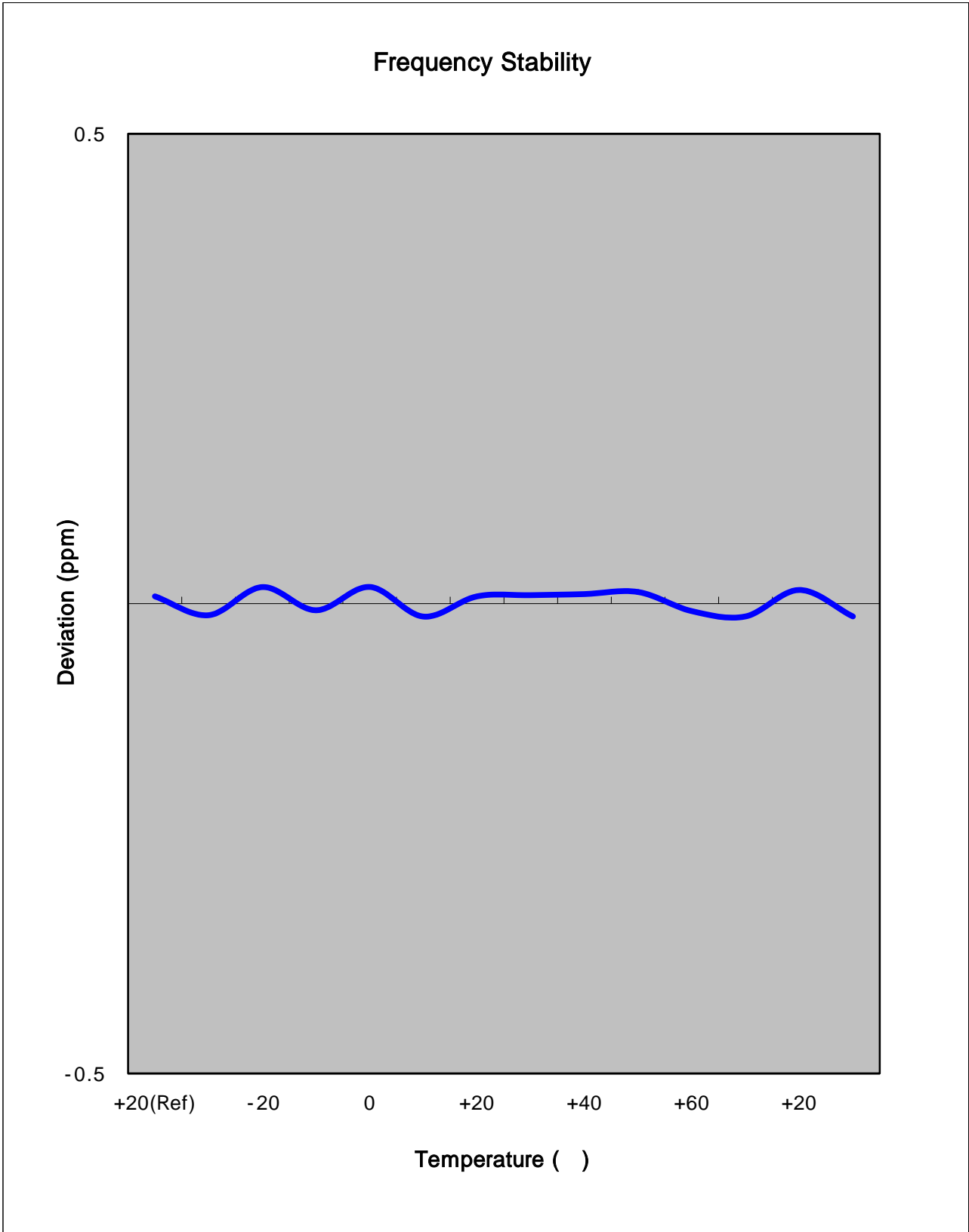
- End of page -

### 6.7.4 PCS Frequency Stability Graph



– End of page –

**Zoom In**



## 7. SAMPLE CALCULATION

### 7.1 Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination(Audio/Data)

(Measured at the 99.75% power bandwidth)

– End of page –



## **8. CONCLUSION**

The data collected shows that the SAMSUNG Cellular/PCS CDMA Phone with Bluetooth and Ev-DO FCC ID : A3LSCHU750 complies with all the requirements of Parts 2, 22, 24 of the FCC Rules.

- End of page -

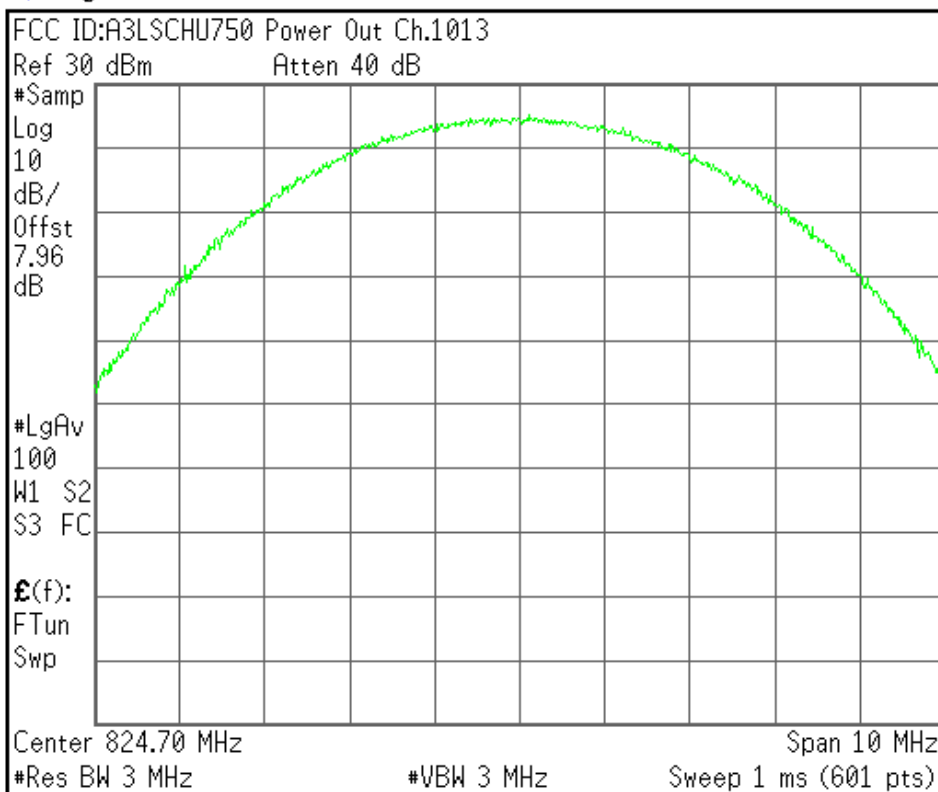


## 9. TEST PLOTS

Agilent

R T

Freq/Channel



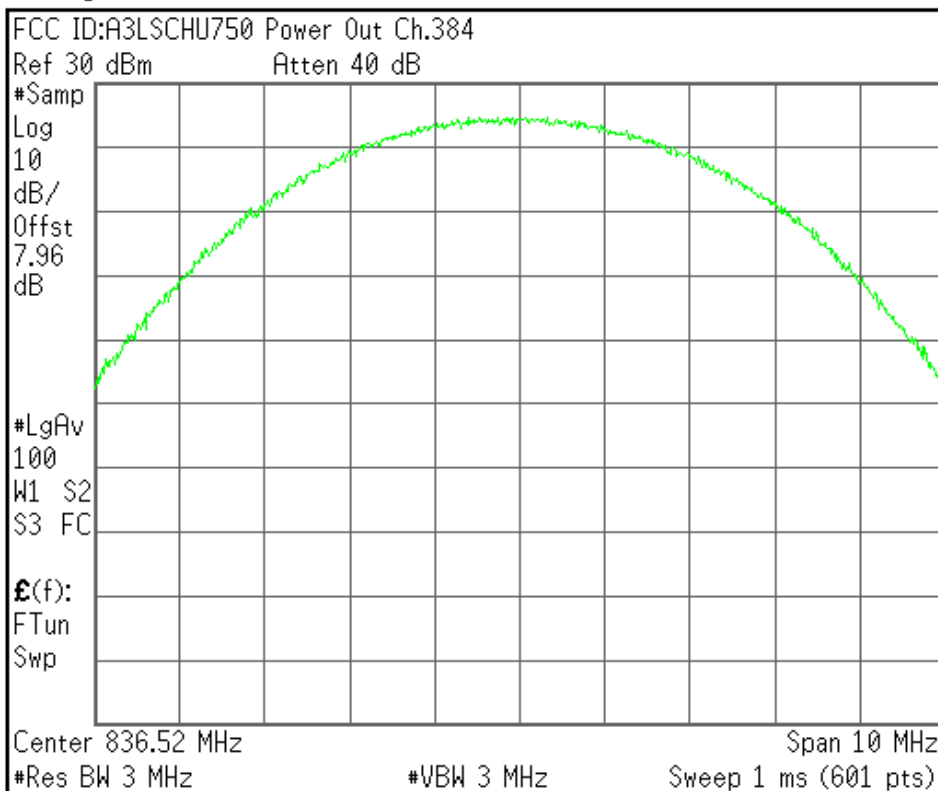
<b>Center Freq</b> 824.700000 MHz
<b>Start Freq</b> 819.700000 MHz
<b>Stop Freq</b> 829.700000 MHz
<b>CF Step</b> 1.00000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

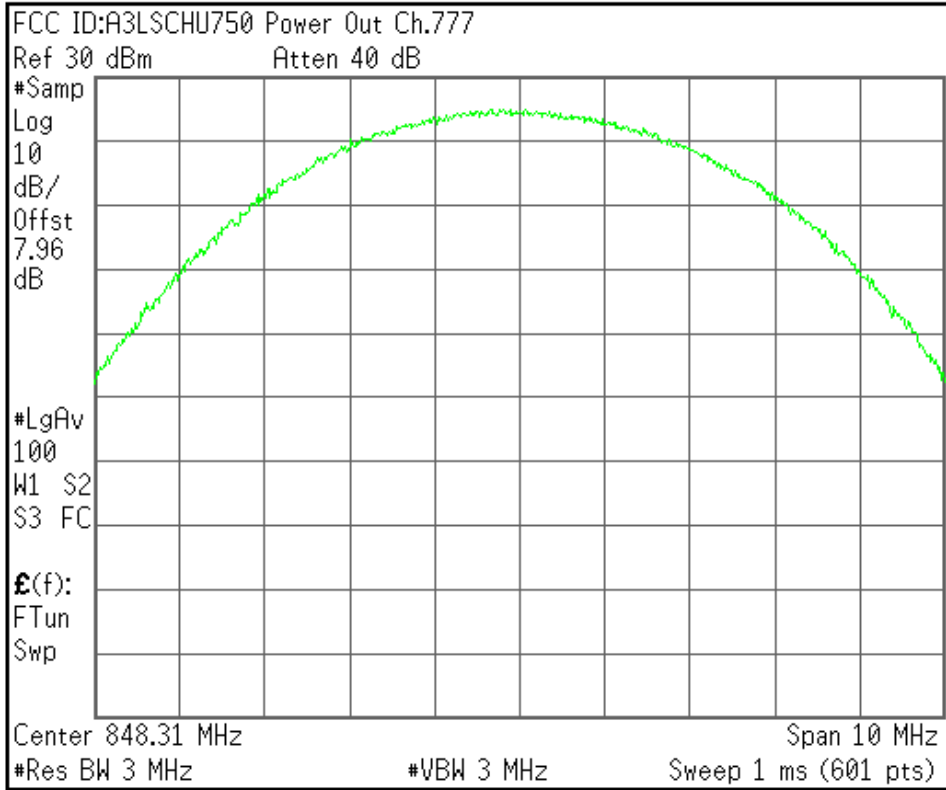
R T

Freq/Channel



<b>Center Freq</b> 836.520000 MHz
<b>Start Freq</b> 831.520000 MHz
<b>Stop Freq</b> 841.520000 MHz
<b>CF Step</b> 1.00000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved



<b>Center Freq</b> 848.310000 MHz
<b>Start Freq</b> 843.310000 MHz
<b>Stop Freq</b> 853.310000 MHz
<b>CF Step</b> 1.00000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

**File Operation Status, C:\TEMP.GIF file saved**

Agilent

R T

**Ch Freq** 824.7 MHz **Trig** Free

Occupied Bandwidth

FCC ID:A3LSCHU750 0BW Ch.1013  
Ref 25 dBm Atten 30 dB

#Samp  
Log  
10  
dB/  
Offst  
7.96  
dB

Center 824.700 MHz Span 3 MHz  
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
1.2817 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	10.672 kHz	
<b>x dB Bandwidth</b>	1.389 MHz*	

**Freq/Channel**

**Center Freq**  
824.700000 MHz

**Start Freq**  
823.200000 MHz

**Stop Freq**  
826.200000 MHz

**CF Step**  
300.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R

**Ch Freq** 836.52 MHz **Trig** Free

Occupied Bandwidth

FCC ID:A3LSCHU750 0BW Ch.384  
Ref 25 dBm Atten 30 dB

#Samp  
Log  
10  
dB/  
Offst  
7.96  
dB

Center 836.520 MHz Span 3 MHz  
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

<b>Occupied Bandwidth</b>	<b>Occ BW % Pwr</b>	99.00 %
1.2563 MHz	<b>x dB</b>	-26.00 dB
<b>Transmit Freq Error</b>	1.345 kHz	
<b>x dB Bandwidth</b>	1.405 MHz*	

**Freq/Channel**

**Center Freq**  
836.520000 MHz

**Start Freq**  
835.020000 MHz

**Stop Freq**  
838.020000 MHz

**CF Step**  
300.000000 kHz  
Auto Man

**Freq Offset**  
0.00000000 Hz

**Signal Track**  
On Off

File Operation Status, C:\TEMP.GIF file saved

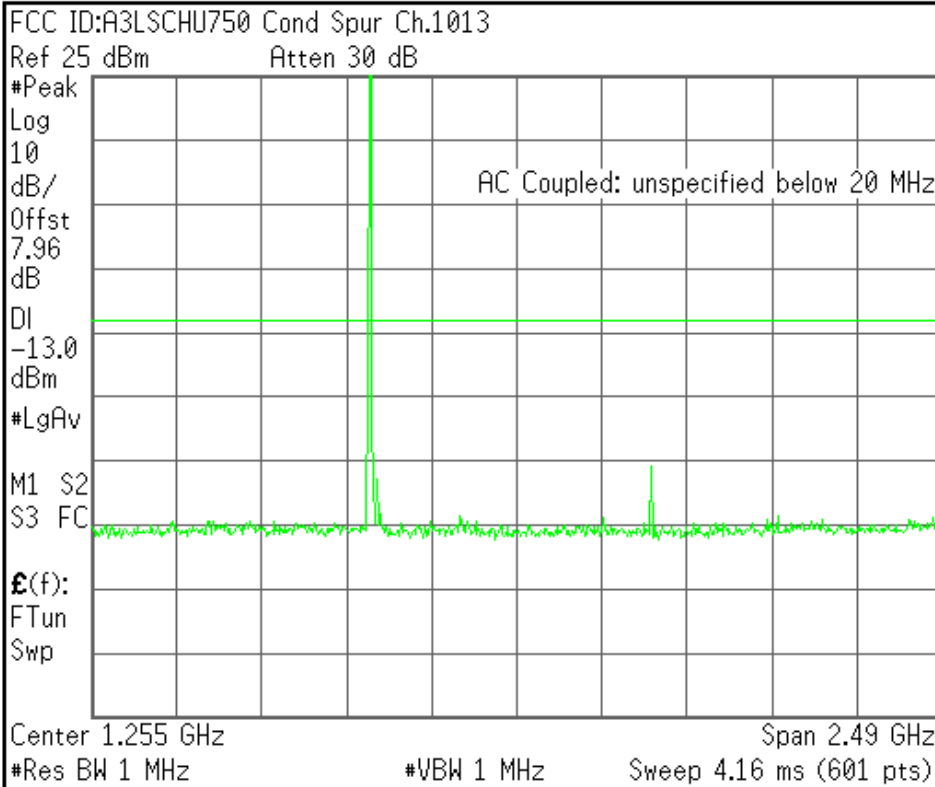
<b>Ch Freq</b> 848.31 MHz		<b>Trig</b> Free	
Occupied Bandwidth			
FCC ID:A3LSCHU750 0BW Ch.777 Ref 25 dBm      Atten 30 dB			
#Samp Log 10 dB/ Offst 7.96 dB			
Center 848.310 MHz		Span 3 MHz	
#Res BW 30 kHz		#VBW 300 kHz      #Sweep 20 ms (601 pts)	
<b>Occupied Bandwidth</b> 1.2801 MHz		<b>Occ BW % Pwr</b> 99.00 % <b>x dB</b> -26.00 dB	
<b>Transmit Freq Error</b> -4.019 kHz			
<b>x dB Bandwidth</b> 1.381 MHz*			
<b>File Operation Status, C:\TEMP.GIF file saved</b>			

<b>Freq/Channel</b>	
<b>Center Freq</b>	848.310000 MHz
<b>Start Freq</b>	846.810000 MHz
<b>Stop Freq</b>	849.810000 MHz
<b>CF Step</b>	300.000000 kHz Auto      Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On      Off

Agilent

R L

Freq/Channel



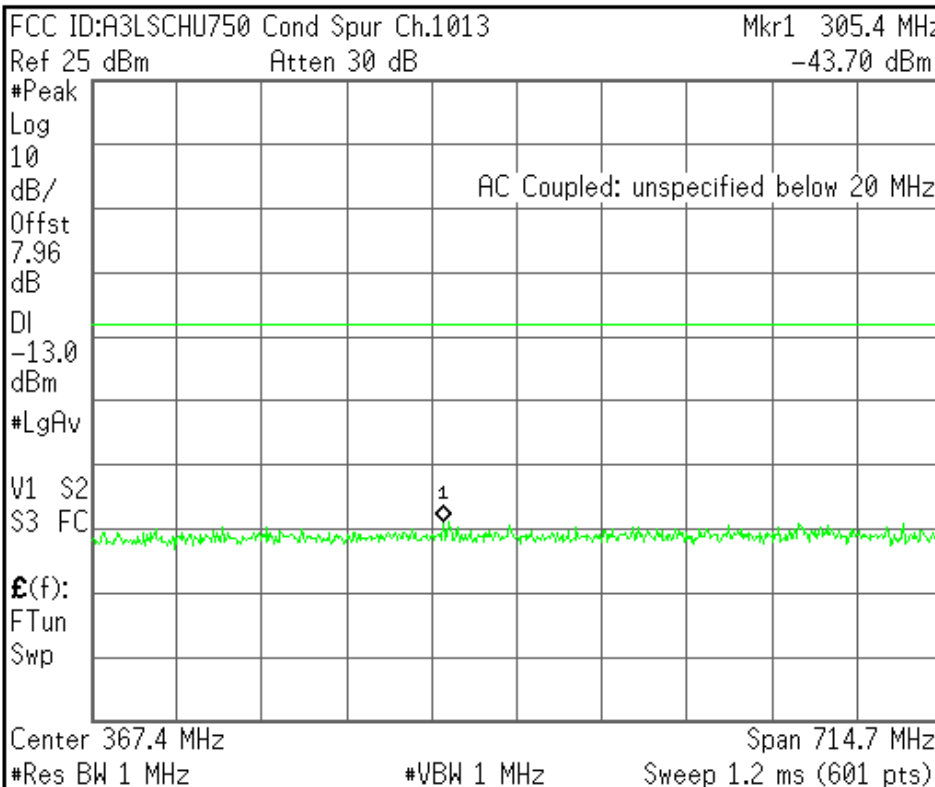
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<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 249.000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Invalid suffix

Agilent

R L

Freq/Channel



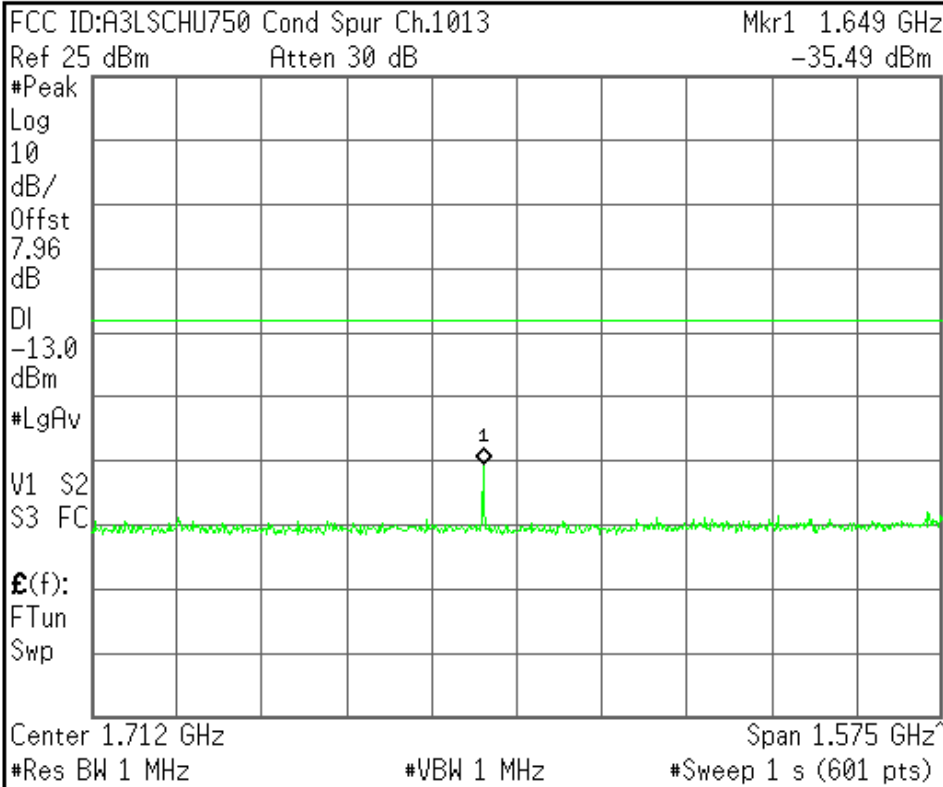
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<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 724.700000 MHz
<b>CF Step</b> 71.4700000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



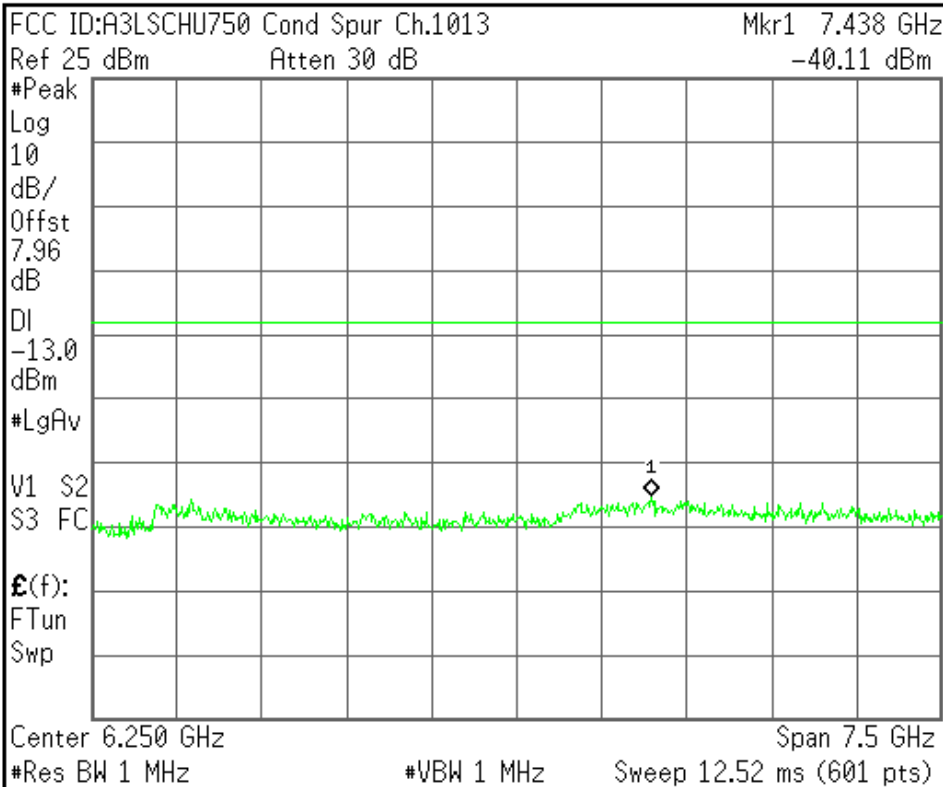
<b>Center Freq</b> 1.71235000 GHz
<b>Start Freq</b> 924.700000 MHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 157.530000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Suffix not allowed

Agilent

R T

Freq/Channel



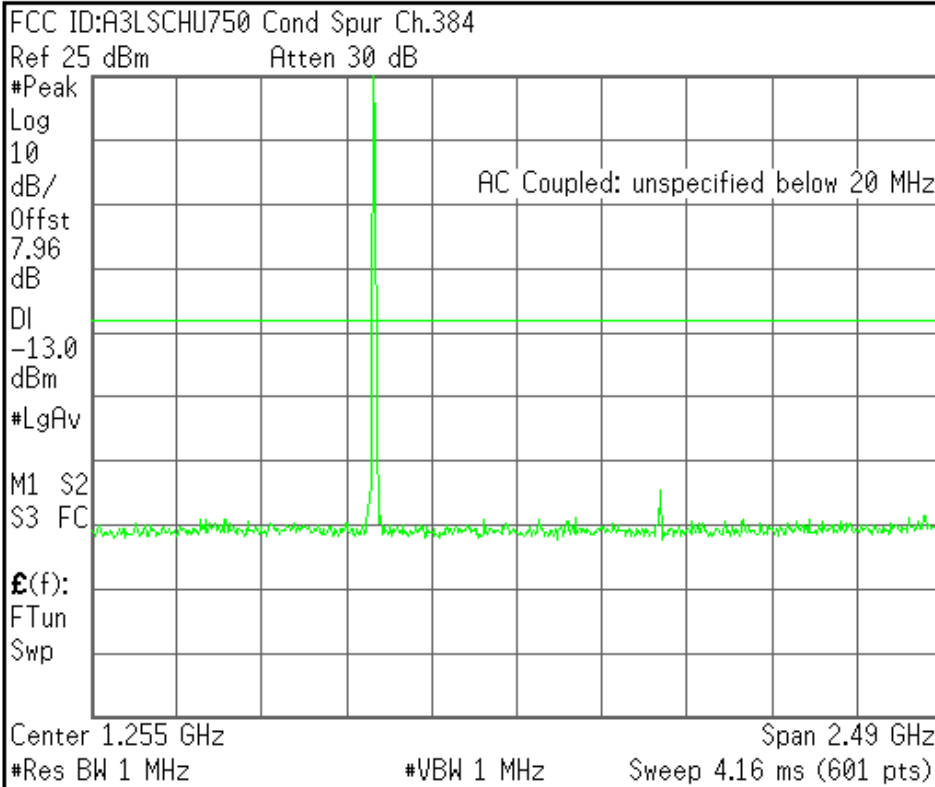
<b>Center Freq</b> 6.25000000 GHz
<b>Start Freq</b> 2.50000000 GHz
<b>Stop Freq</b> 10.00000000 GHz
<b>CF Step</b> 750.000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



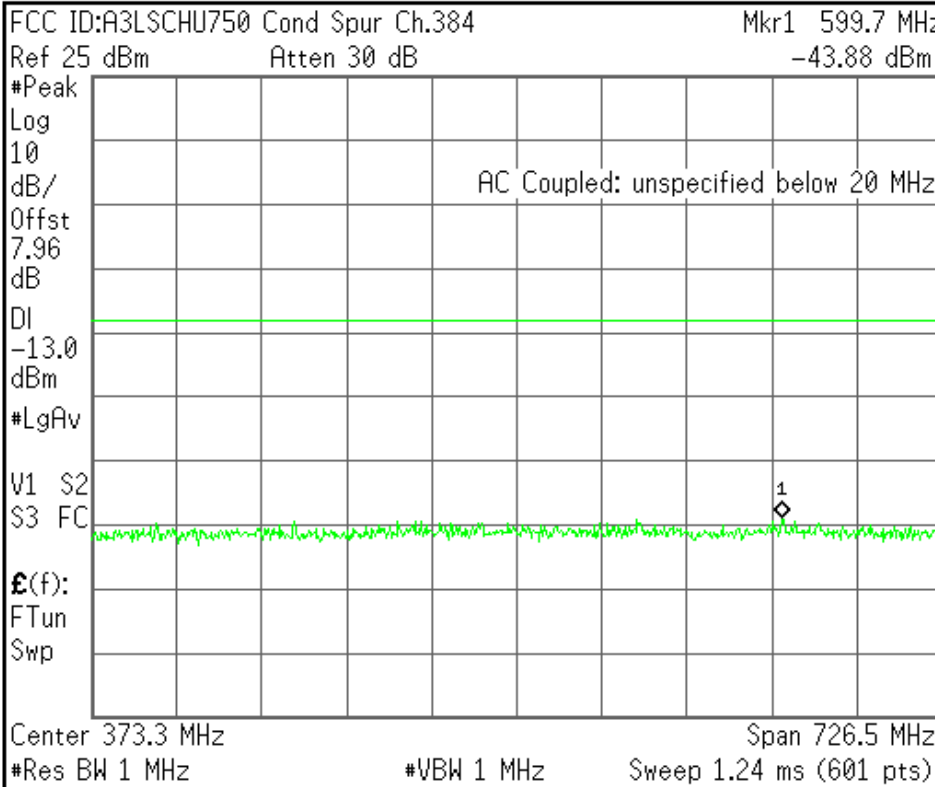
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<b>Start Freq</b> 10.0000000 MHz
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<b>CF Step</b> 249.000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



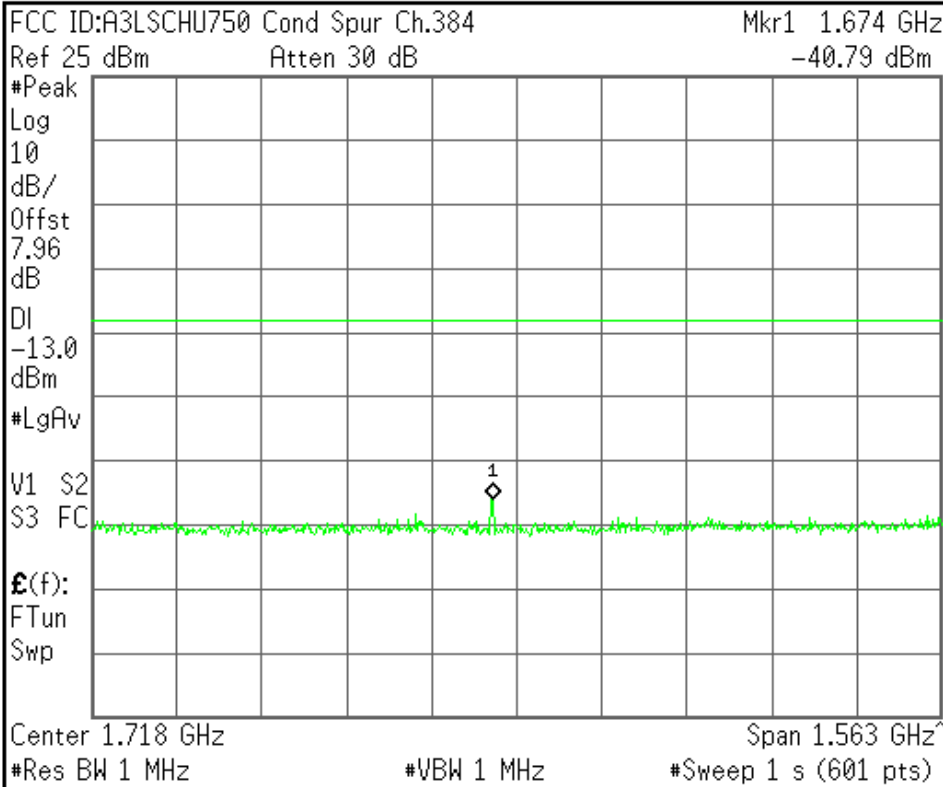
<b>Center Freq</b> 373.260000 MHz
<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 736.520000 MHz
<b>CF Step</b> 72.6520000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



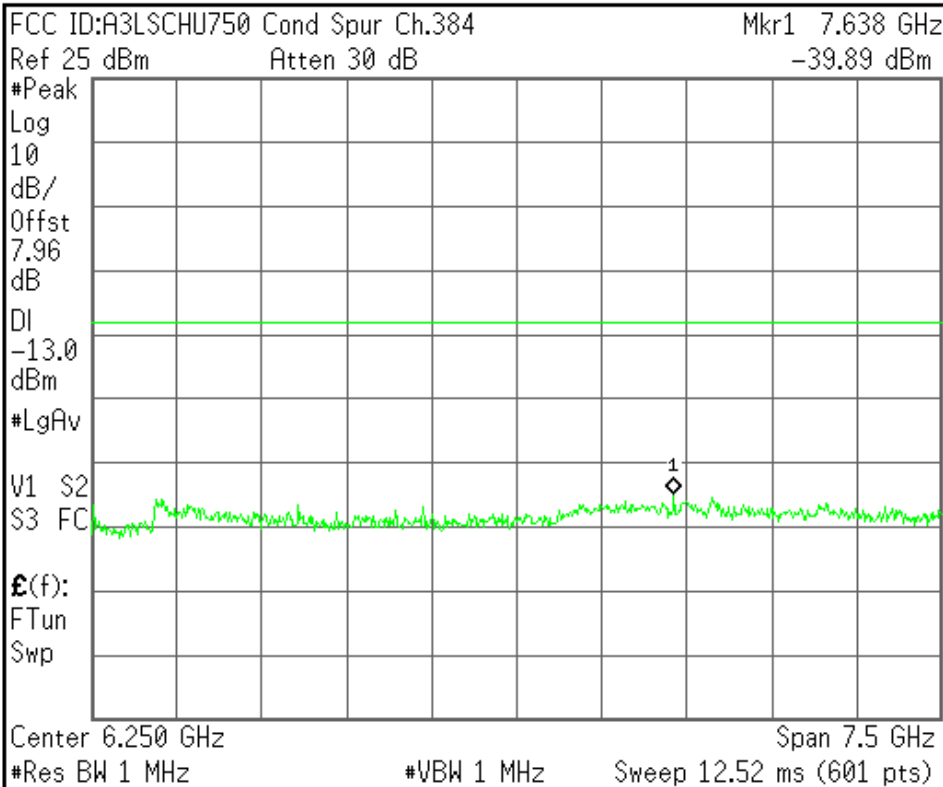
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<b>Start Freq</b>	936.520000 MHz
<b>Stop Freq</b>	2.50000000 GHz
<b>CF Step</b>	156.348000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

Suffix not allowed

Agilent

R L

Freq/Channel



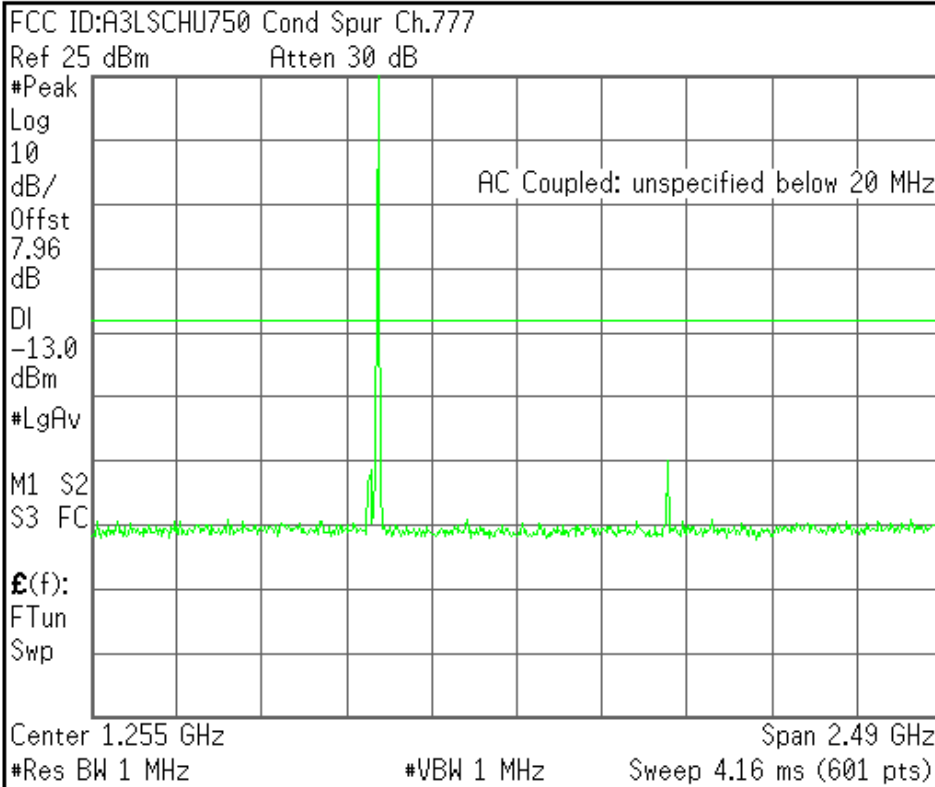
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<b>Start Freq</b>	2.50000000 GHz
<b>Stop Freq</b>	10.00000000 GHz
<b>CF Step</b>	750.000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



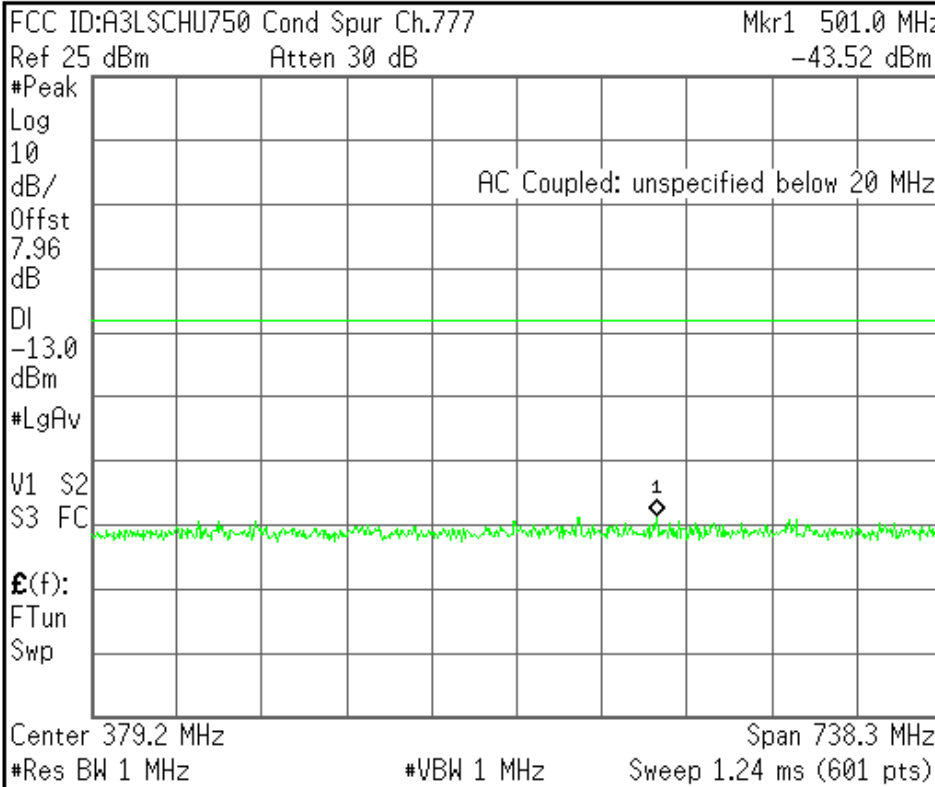
<b>Center Freq</b>	1.25500000 GHz
<b>Start Freq</b>	10.0000000 MHz
<b>Stop Freq</b>	2.50000000 GHz
<b>CF Step</b>	249.000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



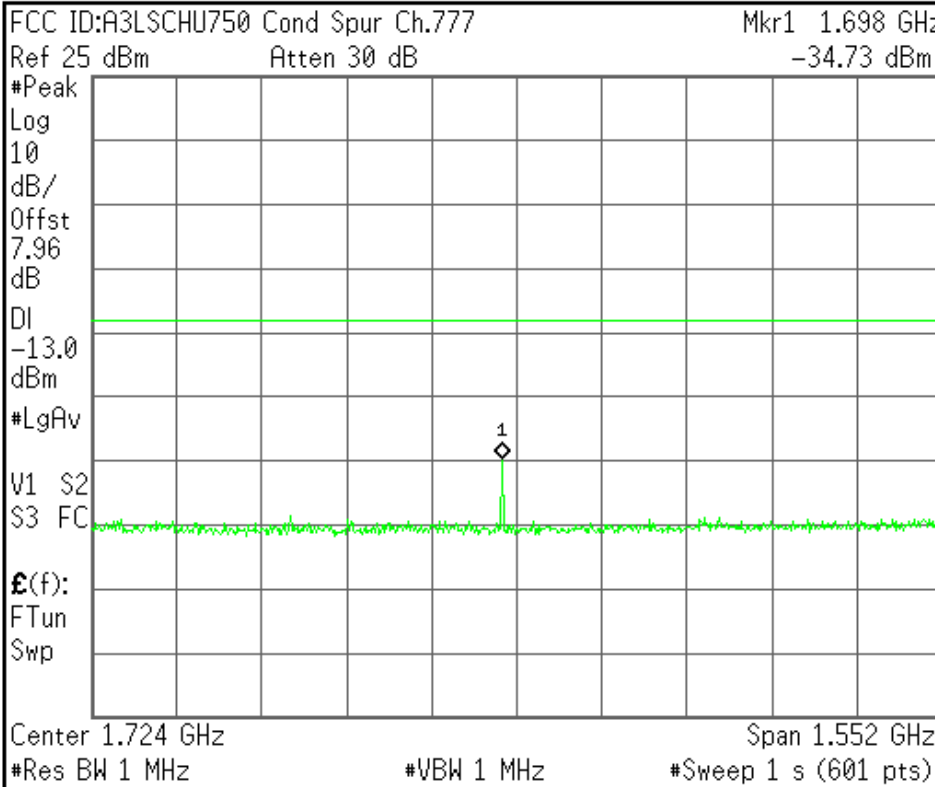
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<b>Stop Freq</b>	748.310000 MHz
<b>CF Step</b>	73.8310000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



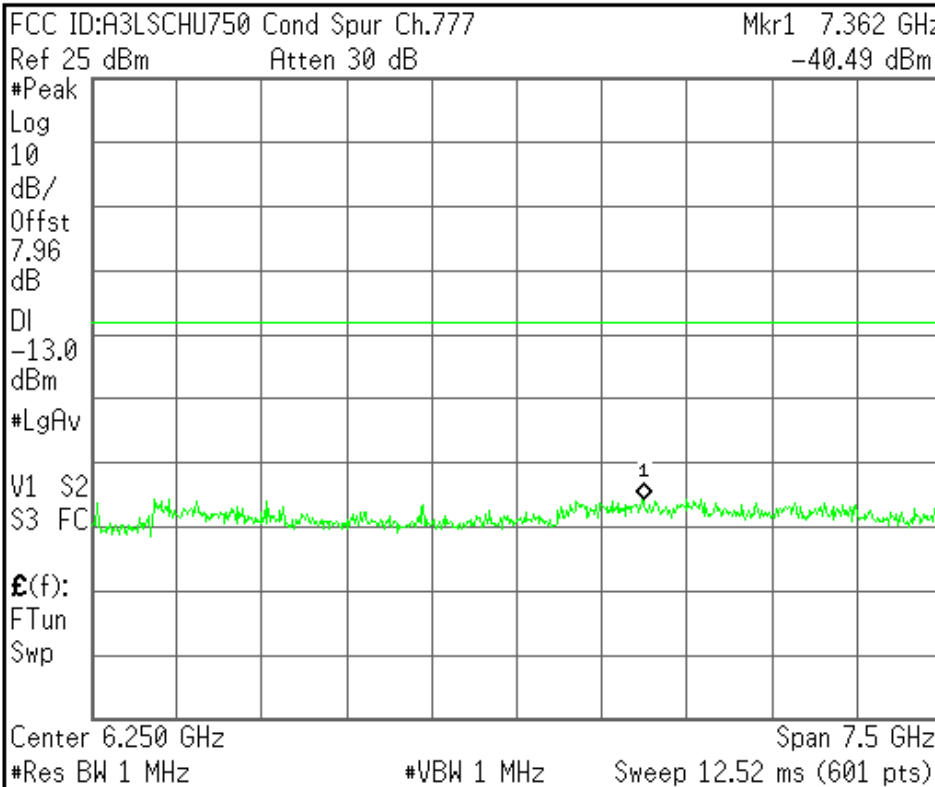
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<b>Start Freq</b>	948.310000 MHz
<b>Stop Freq</b>	2.50000000 GHz
<b>CF Step</b>	155.169000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

Suffix not allowed

Agilent

R T

Freq/Channel



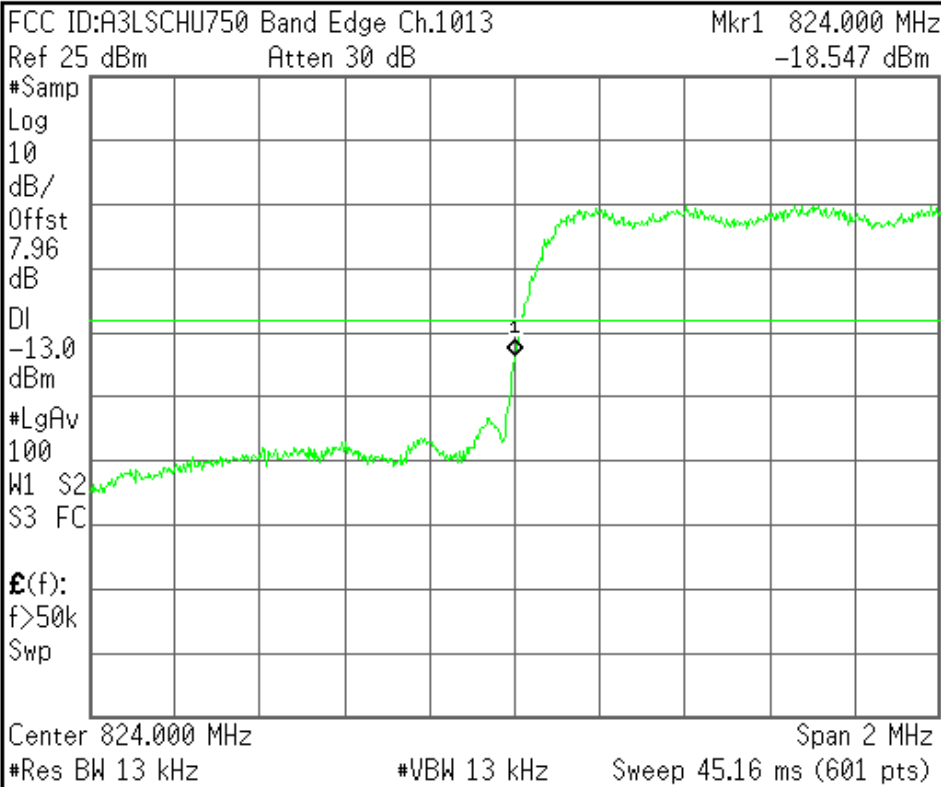
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<b>Stop Freq</b>	10.00000000 GHz
<b>CF Step</b>	750.000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



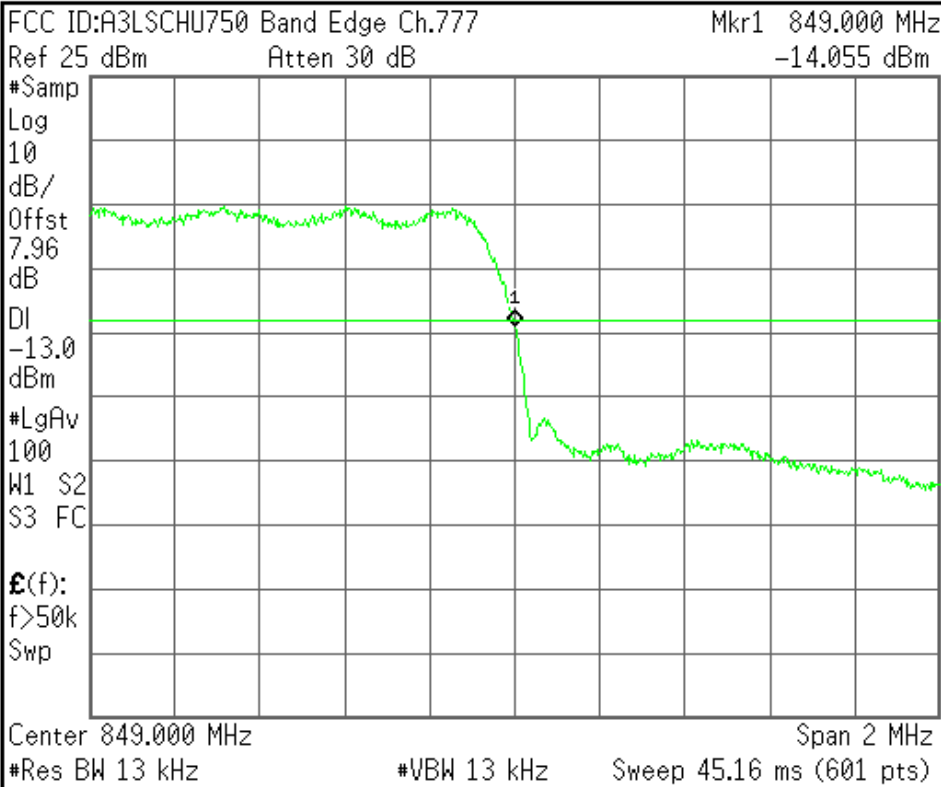
<b>Center Freq</b> 824.000000 MHz
<b>Start Freq</b> 823.000000 MHz
<b>Stop Freq</b> 825.000000 MHz
<b>CF Step</b> 200.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Invalid suffix

Agilent

R L

Freq/Channel



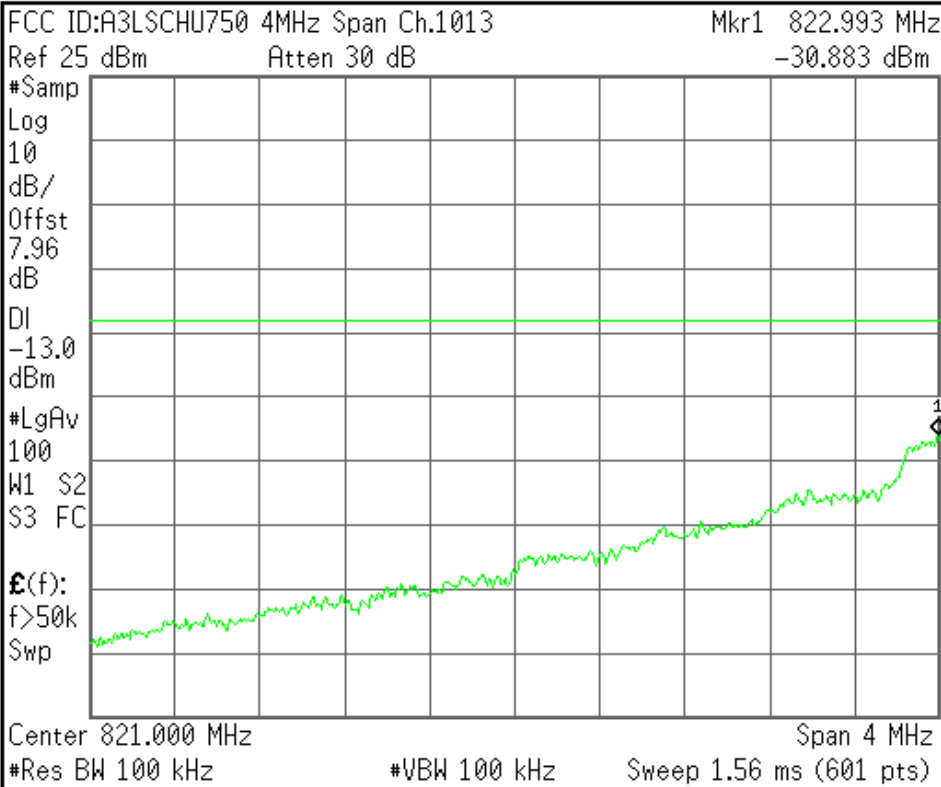
<b>Center Freq</b> 849.000000 MHz
<b>Start Freq</b> 848.000000 MHz
<b>Stop Freq</b> 850.000000 MHz
<b>CF Step</b> 200.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Invalid suffix

Agilent

R T

Freq/Channel



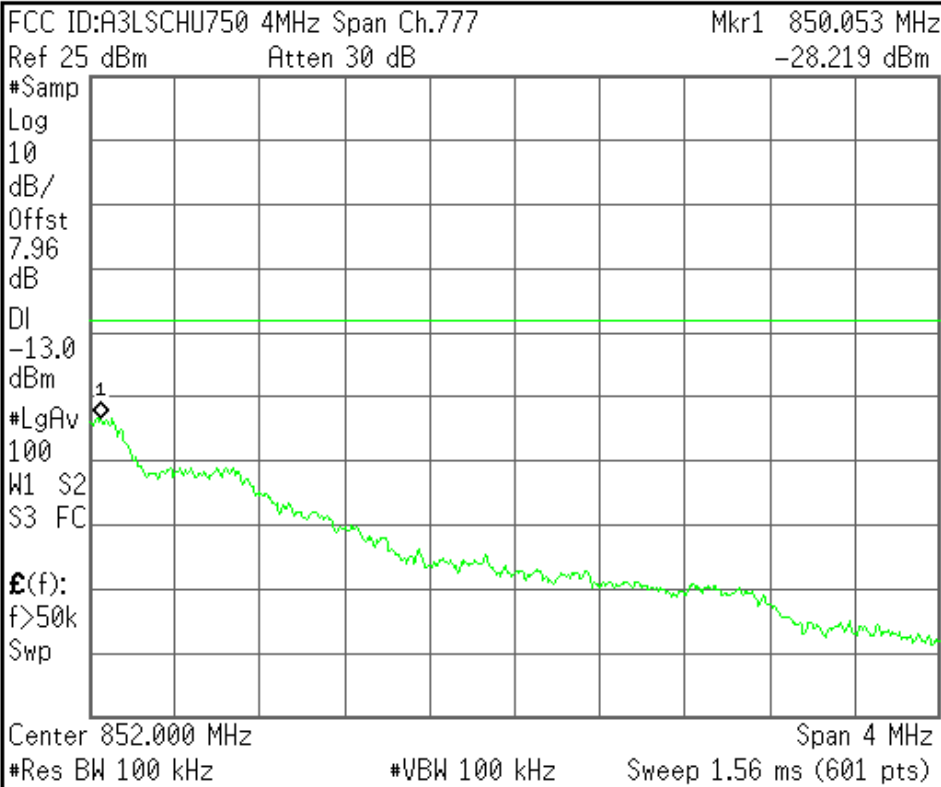
<b>Center Freq</b> 821.000000 MHz
<b>Start Freq</b> 819.000000 MHz
<b>Stop Freq</b> 823.000000 MHz
<b>CF Step</b> 400.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



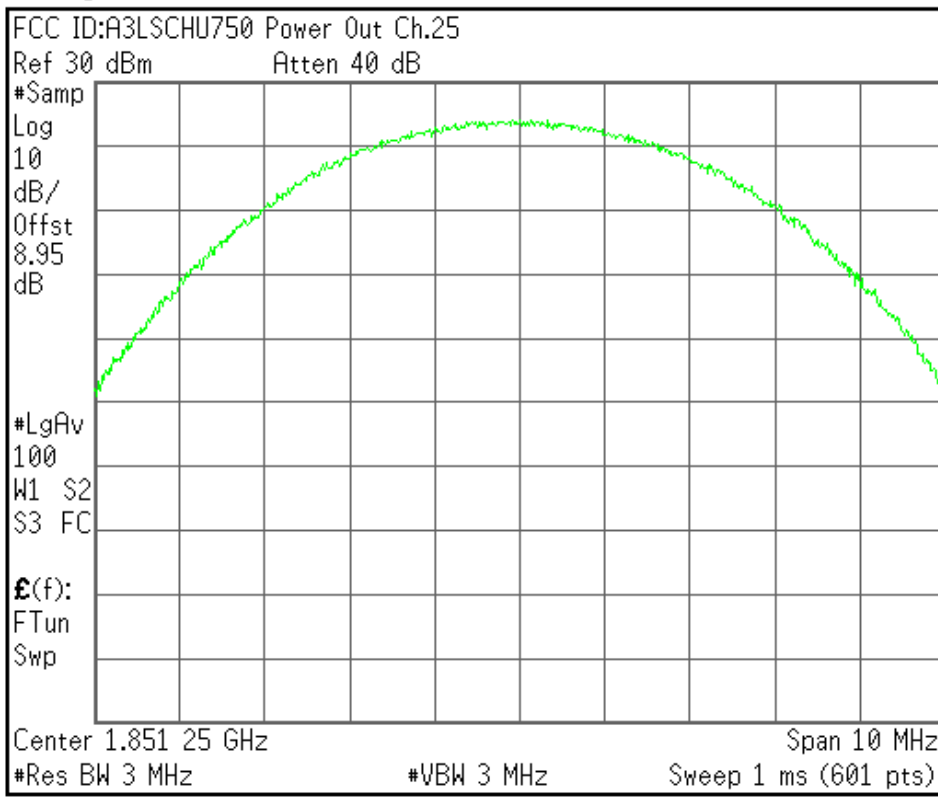
<b>Center Freq</b> 852.000000 MHz
<b>Start Freq</b> 850.000000 MHz
<b>Stop Freq</b> 854.000000 MHz
<b>CF Step</b> 400.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



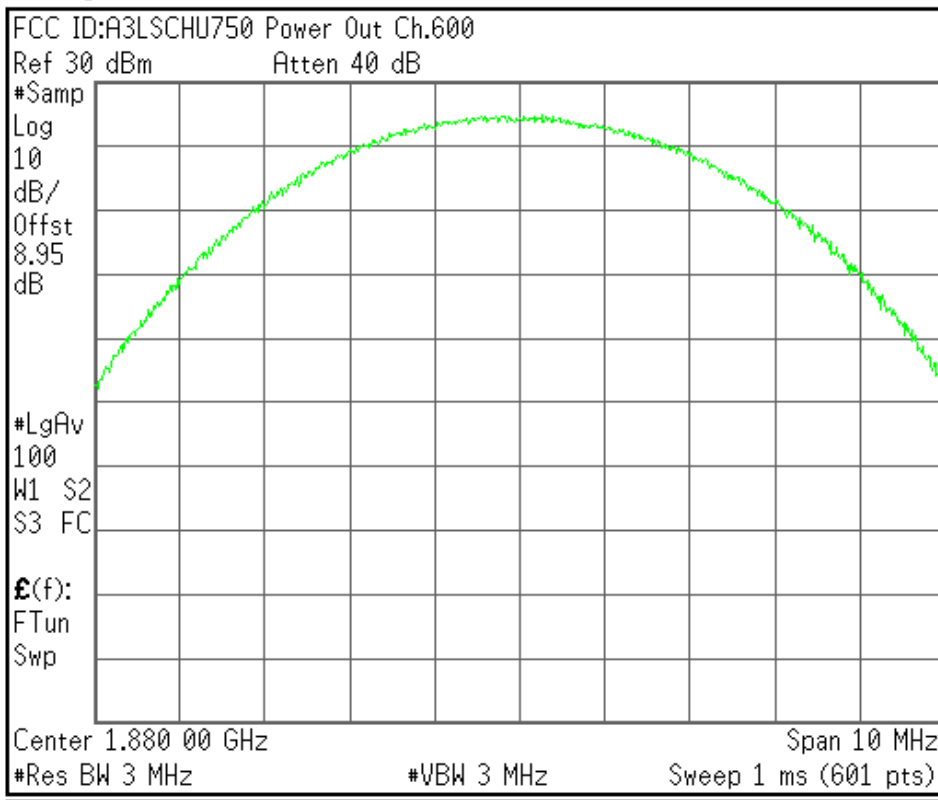
<b>Center Freq</b>	1.85125000 GHz
<b>Start Freq</b>	1.84625000 GHz
<b>Stop Freq</b>	1.85625000 GHz
<b>CF Step</b>	1.00000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

File Operation Status, C:\TEMP.GIF file saved

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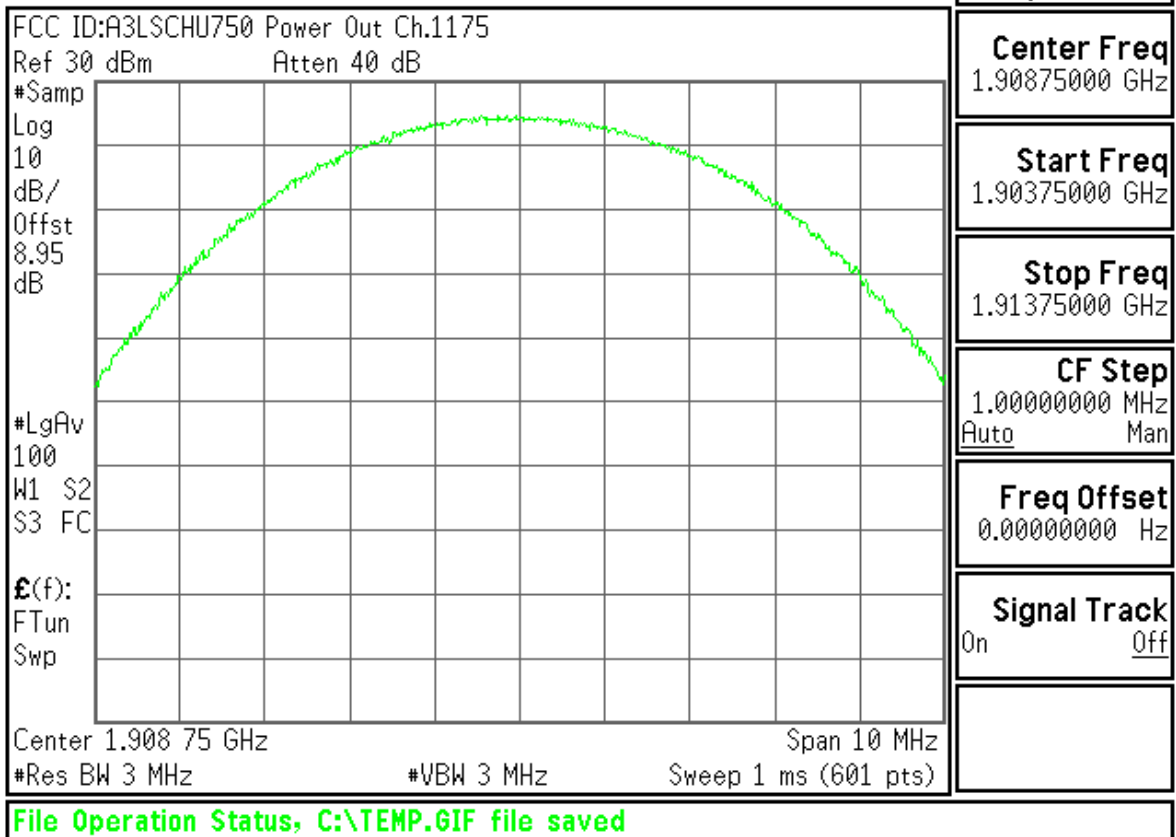
R T

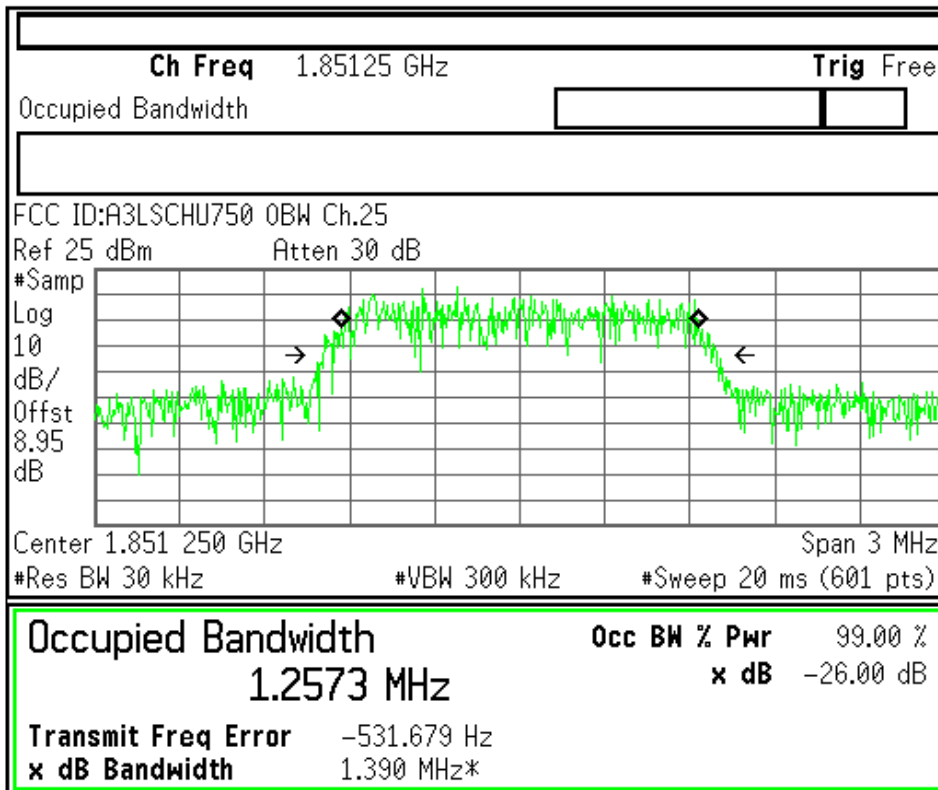
Freq/Channel



<b>Center Freq</b>	1.88000000 GHz
<b>Start Freq</b>	1.87500000 GHz
<b>Stop Freq</b>	1.88500000 GHz
<b>CF Step</b>	1.00000000 MHz Auto Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On Off

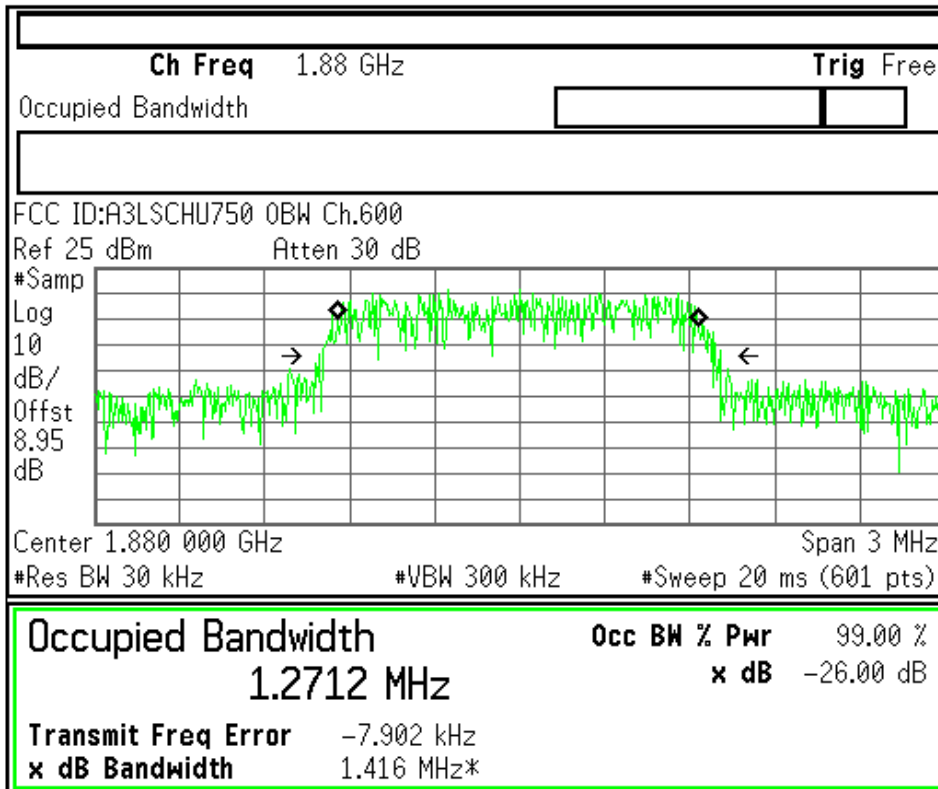
File Operation Status, C:\TEMP.GIF file saved





<b>Freq/Channel</b>
<b>Center Freq</b> 1.85125000 GHz
<b>Start Freq</b> 1.84975000 GHz
<b>Stop Freq</b> 1.85275000 GHz
<b>CF Step</b> 300.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved



<b>Freq/Channel</b>
<b>Center Freq</b> 1.88000000 GHz
<b>Start Freq</b> 1.87850000 GHz
<b>Stop Freq</b> 1.88150000 GHz
<b>CF Step</b> 300.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

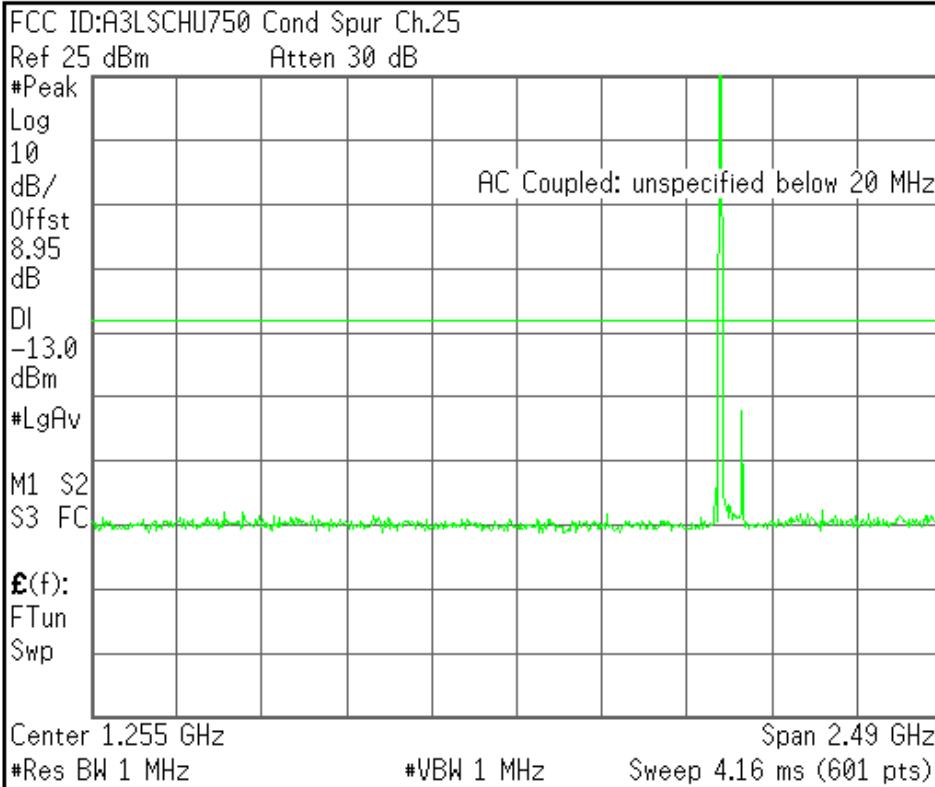
<b>Ch Freq</b> 1.90875 GHz		<b>Trig</b> Free	
Occupied Bandwidth			
FCC ID:A3LSCHU750 0BW Ch.1175 Ref 25 dBm      Atten 30 dB			
#Samp Log 10 dB/ Offst 8.95 dB			
Center 1.908 750 GHz		Span 3 MHz	
#Res BW 30 kHz		#VBW 300 kHz      #Sweep 20 ms (601 pts)	
<b>Occupied Bandwidth</b> 1.2732 MHz		<b>Occ BW % Pwr</b> 99.00 % <b>x dB</b> -26.00 dB	
<b>Transmit Freq Error</b> 1.641 kHz		<b>x dB Bandwidth</b> 1.408 MHz*	
<b>File Operation Status, C:\TEMP.GIF file saved</b>			

<b>Freq/Channel</b>	
<b>Center Freq</b>	1.90875000 GHz
<b>Start Freq</b>	1.90725000 GHz
<b>Stop Freq</b>	1.91025000 GHz
<b>CF Step</b>	300.000000 kHz Auto      Man
<b>Freq Offset</b>	0.00000000 Hz
<b>Signal Track</b>	On      Off

Agilent

R L

Freq/Channel



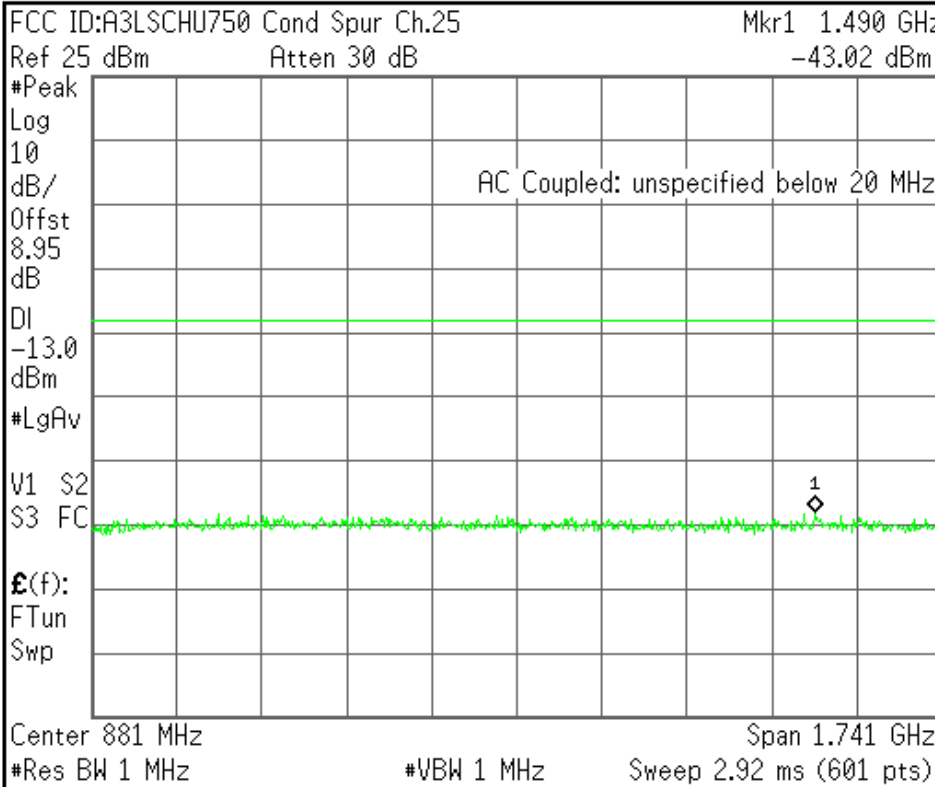
<b>Center Freq</b> 1.25500000 GHz
<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 249.000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



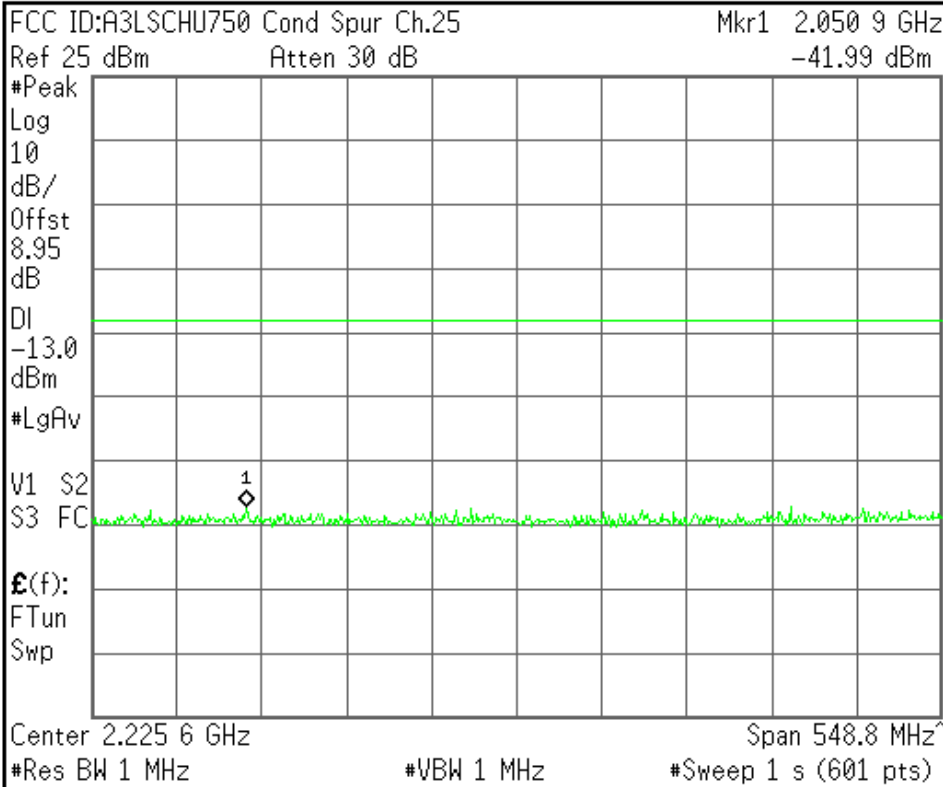
<b>Center Freq</b> 880.625000 MHz
<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 1.75125000 GHz
<b>CF Step</b> 174.125000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



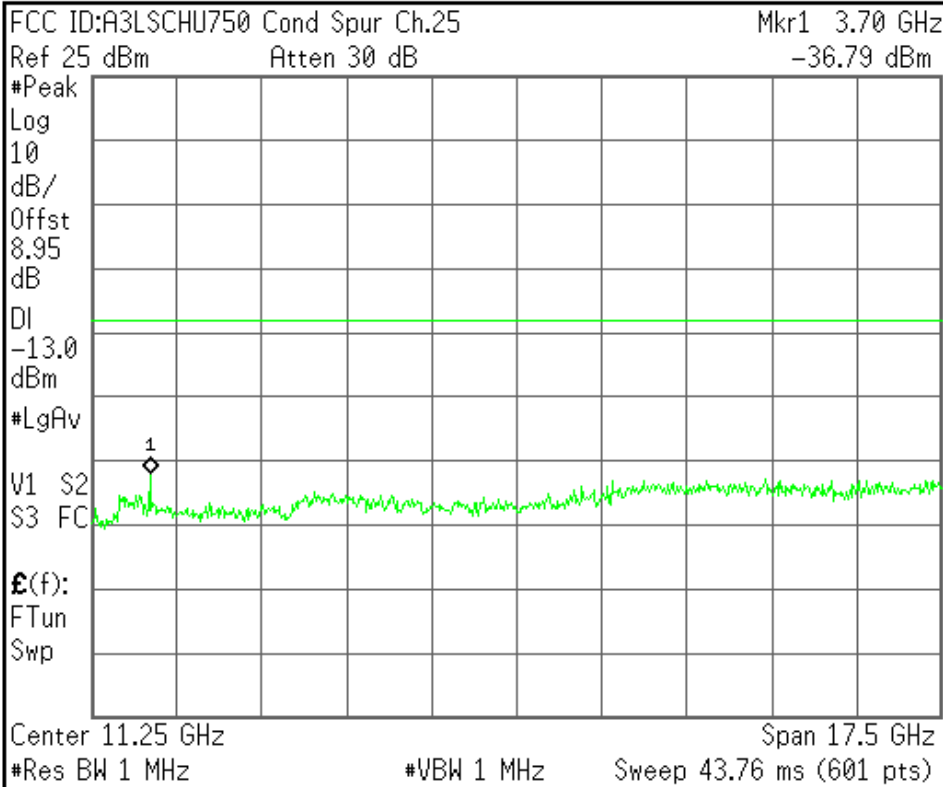
<b>Center Freq</b> 2.22562500 GHz
<b>Start Freq</b> 1.95125000 GHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 54.8750000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Suffix not allowed

Agilent

R T

Freq/Channel



<b>Center Freq</b> 11.2500000 GHz
<b>Start Freq</b> 2.50000000 GHz
<b>Stop Freq</b> 20.0000000 GHz
<b>CF Step</b> 1.75000000 GHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel

FCC ID:A3LSCHU750 Cond Spur Ch.600

Ref 25 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

$\mathcal{E}(f)$ :

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

Center Freq  
1.25500000 GHz

Start Freq  
10.0000000 MHz

Stop Freq  
2.50000000 GHz

CF Step  
249.000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

Signal Track  
On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel

FCC ID:A3LSCHU750 Cond Spur Ch.600

Ref 25 dBm

Atten 30 dB

Mkr1 134 MHz

-42.35 dBm

#Peak

Log

10

dB/

Offst

8.95

dB

DI

-13.0

dBm

#LgAv

V1 S2

S3 FC

$\mathcal{E}(f)$ :

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center 895 MHz

Span 1.77 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 2.96 ms (601 pts)

Center Freq  
895.000000 MHz

Start Freq  
10.0000000 MHz

Stop Freq  
1.78000000 GHz

CF Step  
177.000000 MHz  
Auto Man

Freq Offset  
0.00000000 Hz

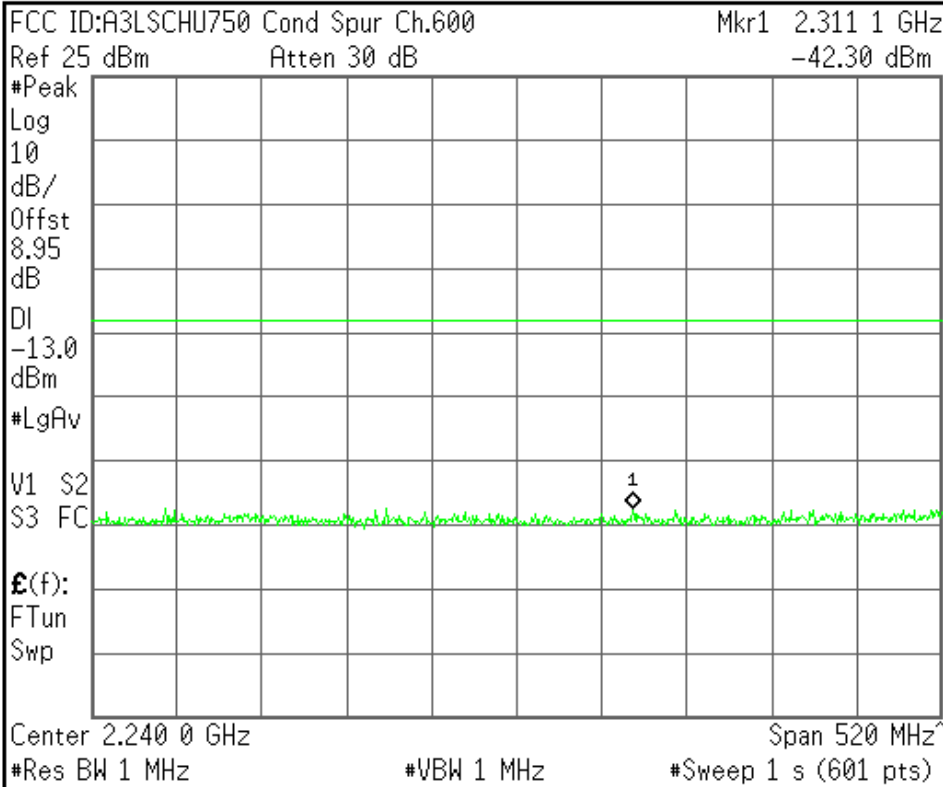
Signal Track  
On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



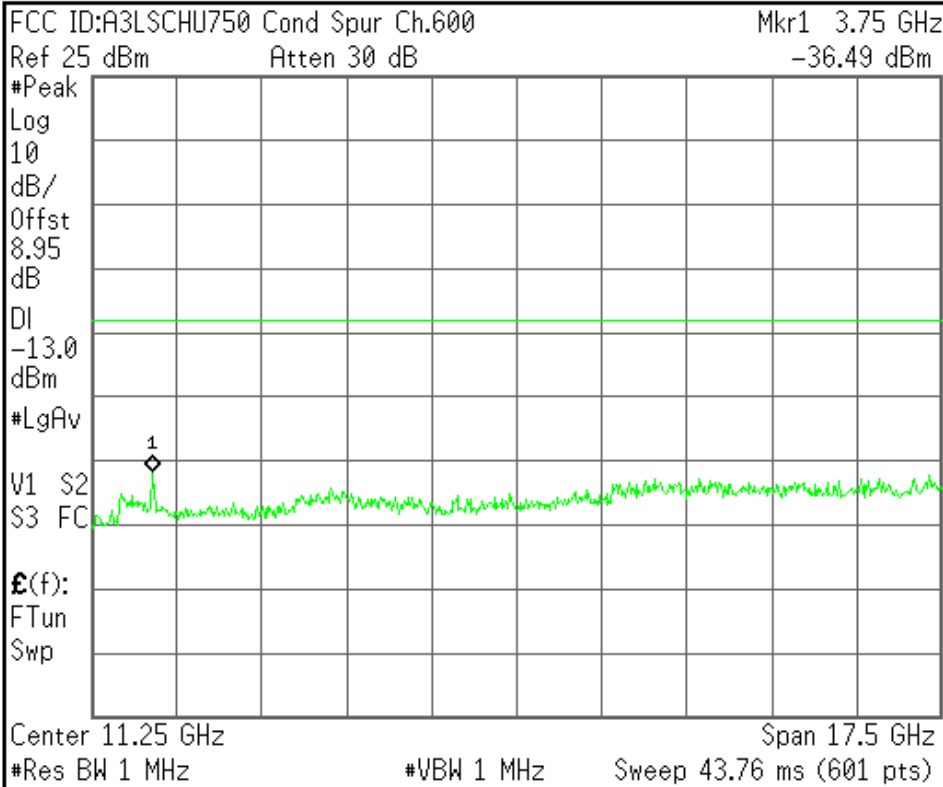
<b>Center Freq</b> 2.24000000 GHz
<b>Start Freq</b> 1.98000000 GHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 52.00000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Suffix not allowed

Agilent

R T

Freq/Channel



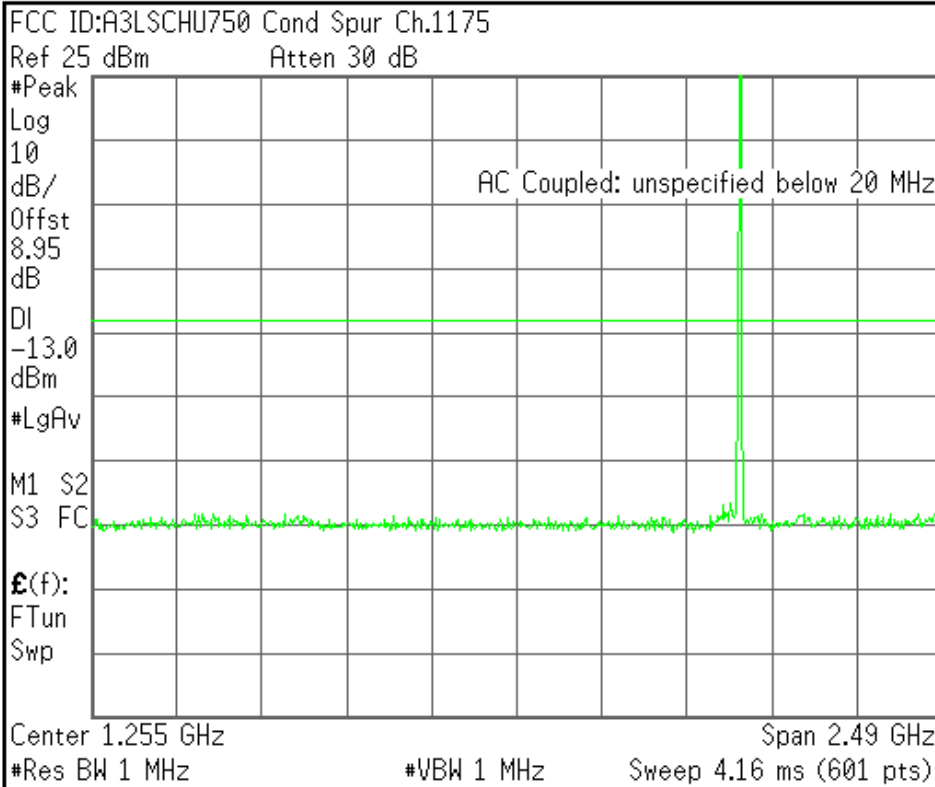
<b>Center Freq</b> 11.25000000 GHz
<b>Start Freq</b> 2.50000000 GHz
<b>Stop Freq</b> 20.00000000 GHz
<b>CF Step</b> 1.75000000 GHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



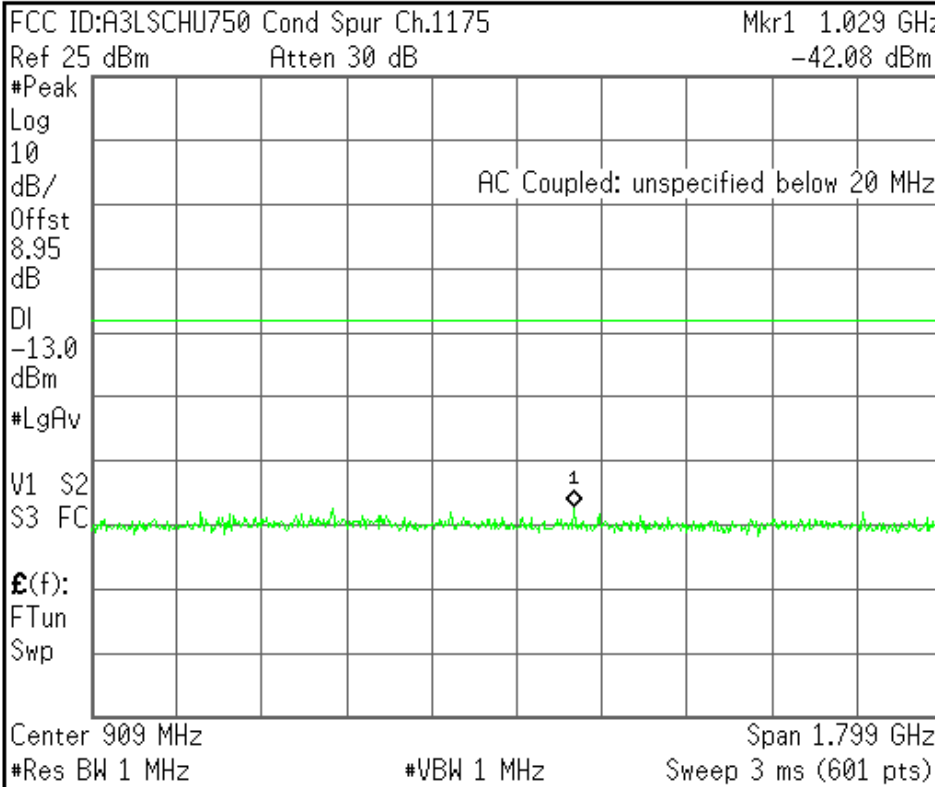
<b>Center Freq</b> 1.25500000 GHz
<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 249.000000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L

Freq/Channel



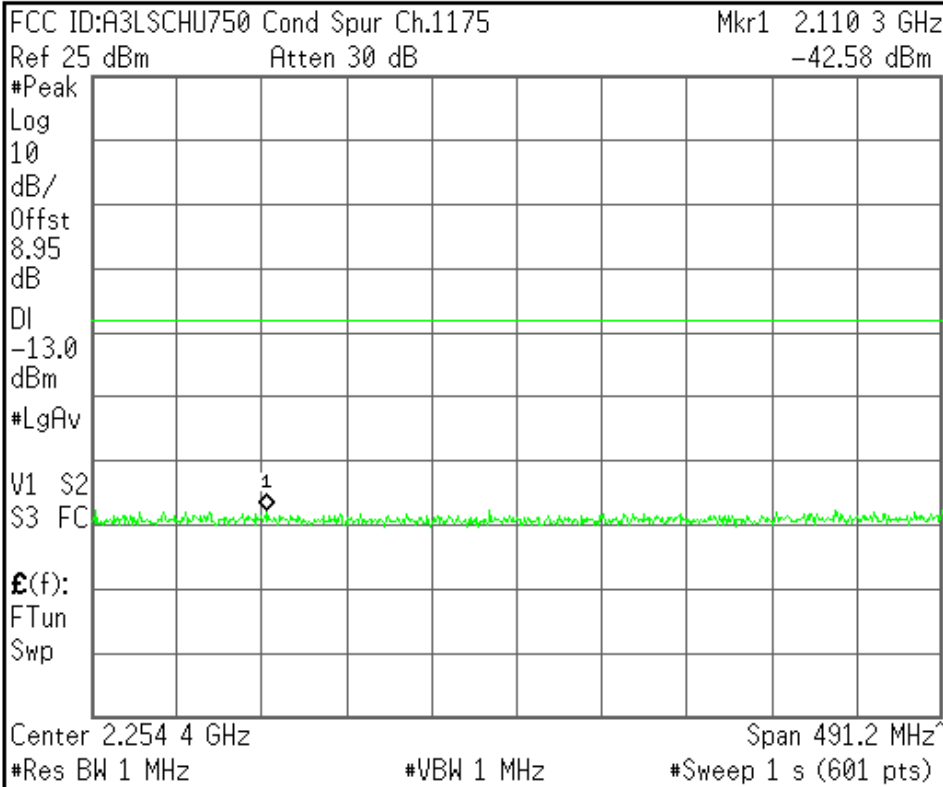
<b>Center Freq</b> 909.375000 MHz
<b>Start Freq</b> 10.0000000 MHz
<b>Stop Freq</b> 1.80875000 GHz
<b>CF Step</b> 179.875000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



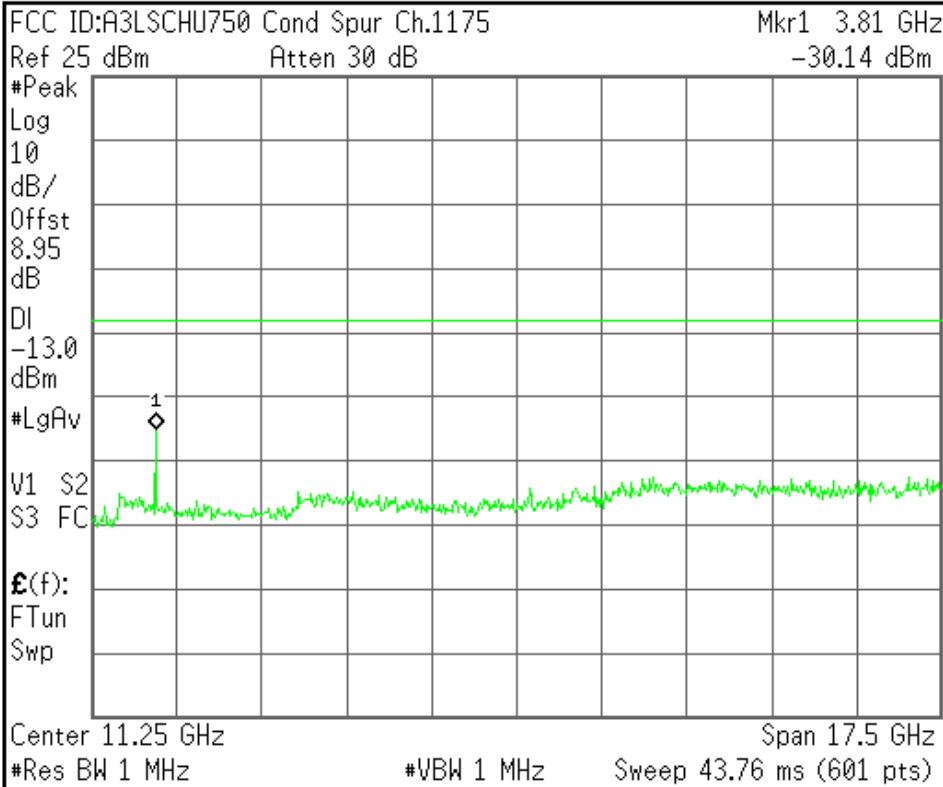
<b>Center Freq</b> 2.25437500 GHz
<b>Start Freq</b> 2.00875000 GHz
<b>Stop Freq</b> 2.50000000 GHz
<b>CF Step</b> 49.1250000 MHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Suffix not allowed

Agilent

R T

Freq/Channel



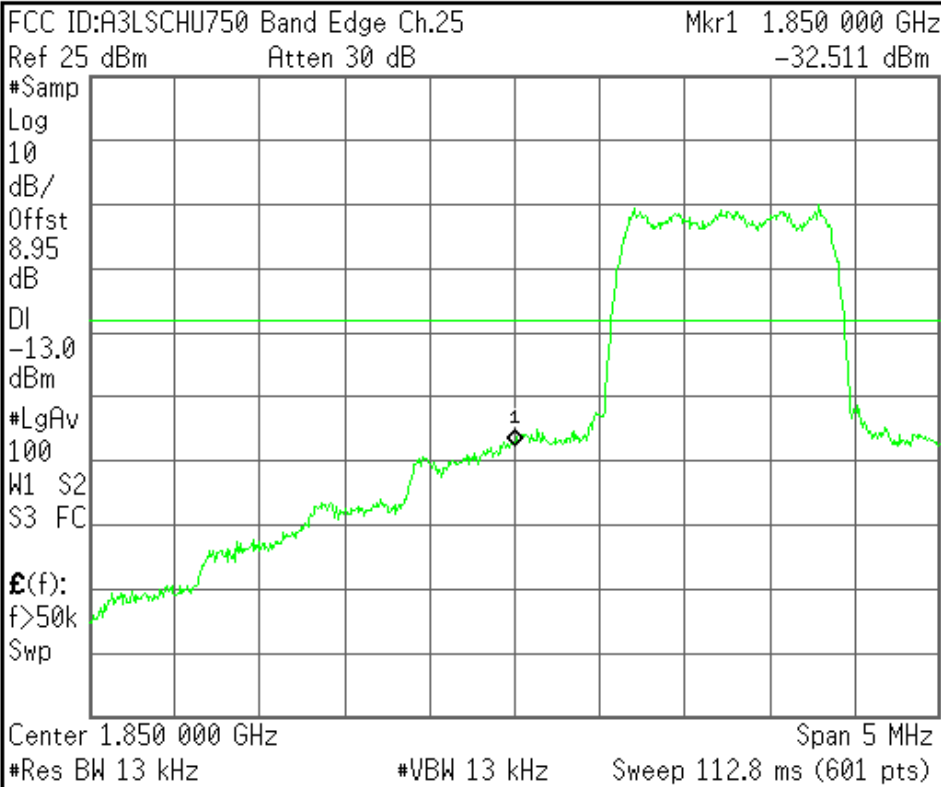
<b>Center Freq</b> 11.2500000 GHz
<b>Start Freq</b> 2.50000000 GHz
<b>Stop Freq</b> 20.0000000 GHz
<b>CF Step</b> 1.75000000 GHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R T

Freq/Channel



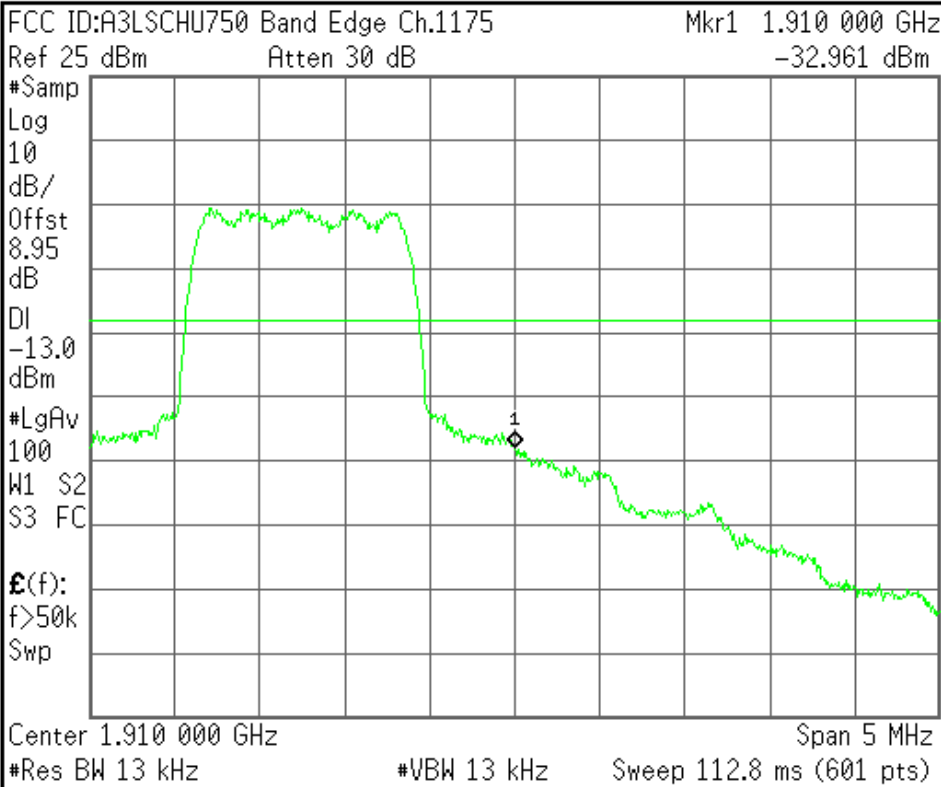
<b>Center Freq</b> 1.85000000 GHz
<b>Start Freq</b> 1.84750000 GHz
<b>Stop Freq</b> 1.85250000 GHz
<b>CF Step</b> 500.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Invalid suffix

Agilent

R T

Freq/Channel



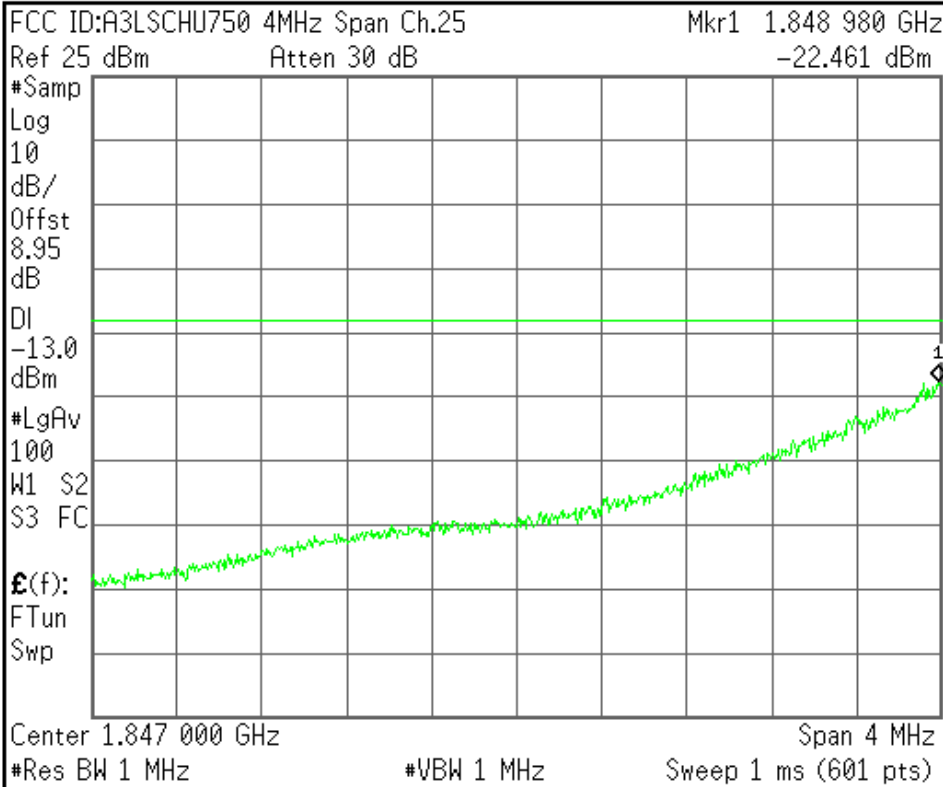
<b>Center Freq</b> 1.91000000 GHz
<b>Start Freq</b> 1.90750000 GHz
<b>Stop Freq</b> 1.91250000 GHz
<b>CF Step</b> 500.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

Invalid suffix

Agilent

R T

Freq/Channel



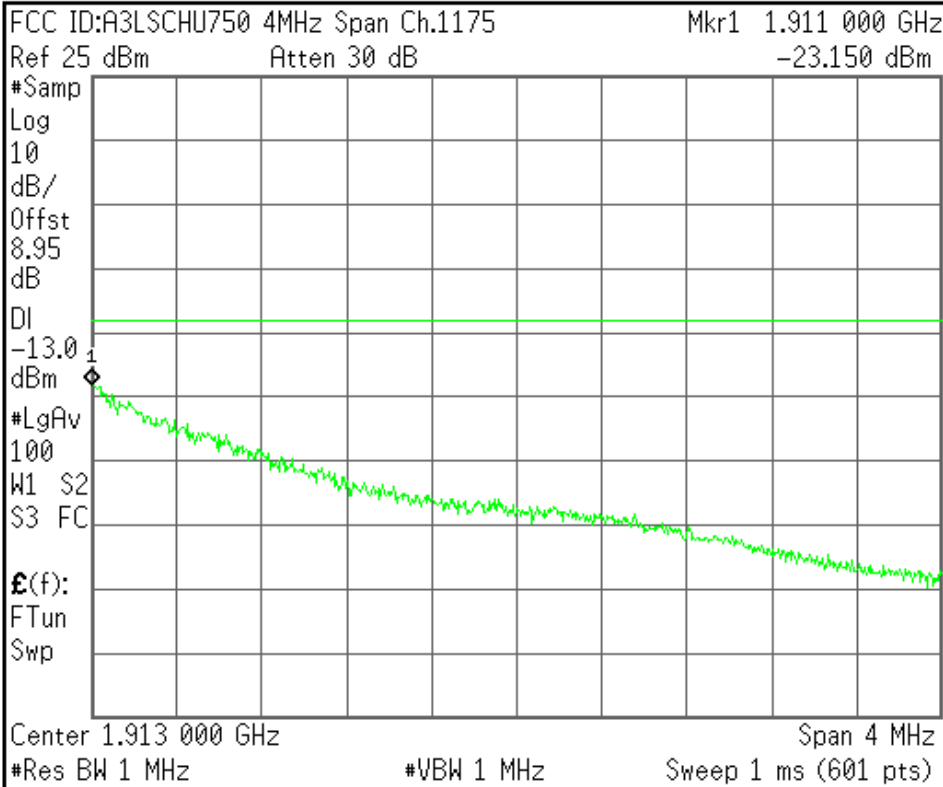
<b>Center Freq</b> 1.84700000 GHz
<b>Start Freq</b> 1.84500000 GHz
<b>Stop Freq</b> 1.84900000 GHz
<b>CF Step</b> 400.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

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R T

Freq/Channel

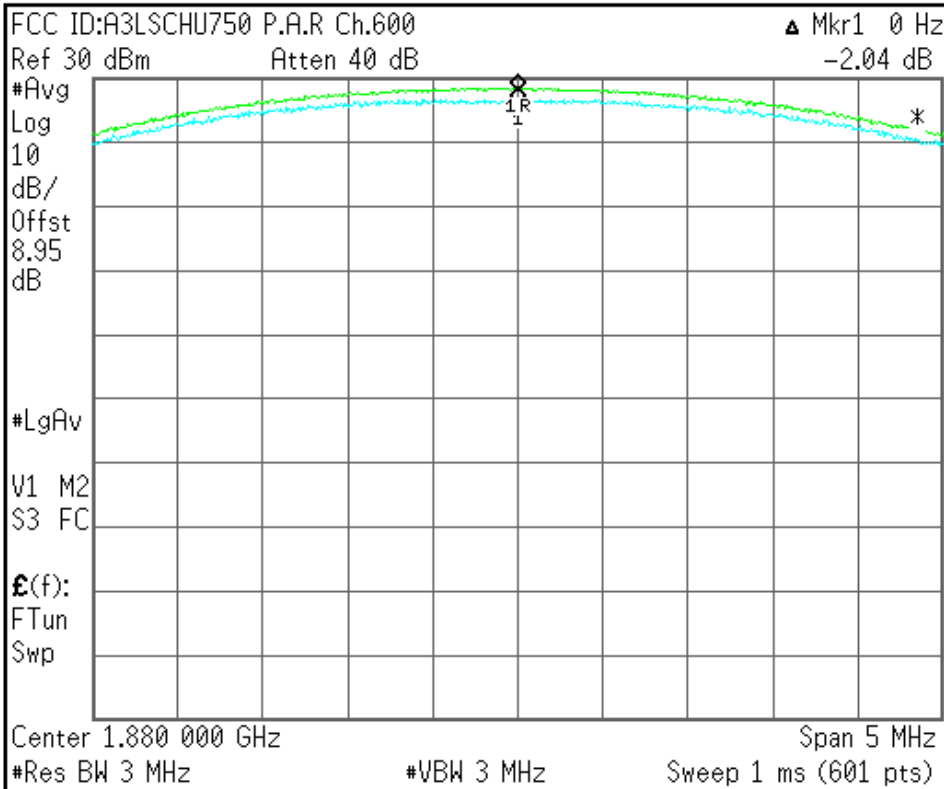


<b>Center Freq</b> 1.91300000 GHz
<b>Start Freq</b> 1.91100000 GHz
<b>Stop Freq</b> 1.91500000 GHz
<b>CF Step</b> 400.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved

Agilent

R L



<b>Freq/Channel</b>
<b>Center Freq</b> 1.88000000 GHz
<b>Start Freq</b> 1.87750000 GHz
<b>Stop Freq</b> 1.88250000 GHz
<b>CF Step</b> 500.000000 kHz Auto Man
<b>Freq Offset</b> 0.00000000 Hz
<b>Signal Track</b> On Off

File Operation Status, C:\TEMP.GIF file saved