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FCC CFR47 PART 22 & 24 SUBPART CERTIFICATION REPORT

Model Tested: SCH-i910
FCC ID (Requested): A3LSCHI910
Report No: FF-161-R1
Job No: FF-161
Date issued: August 11, 2008

- 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
- Attention: SungJoo KIM, Engineering Manager (QA Lab)
- FCC ID: A3LSCHI910
- Quantity: Quantity production is planned
- Emission Designators: 1M29F9W(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: 0.196 W ERP CDMA (22.92dBm)
0.286 W EIRP PCS (24.57dBm)
- FCC Classification(s): PCS Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Cellular/PCS CDMA Phone with Bluetooth, EvDO and WLAN
- Modulation(s): CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s): §24(E), §22(H), §2.
- Dates of Test: July 31 - August 09, 2008
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FF-161-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.

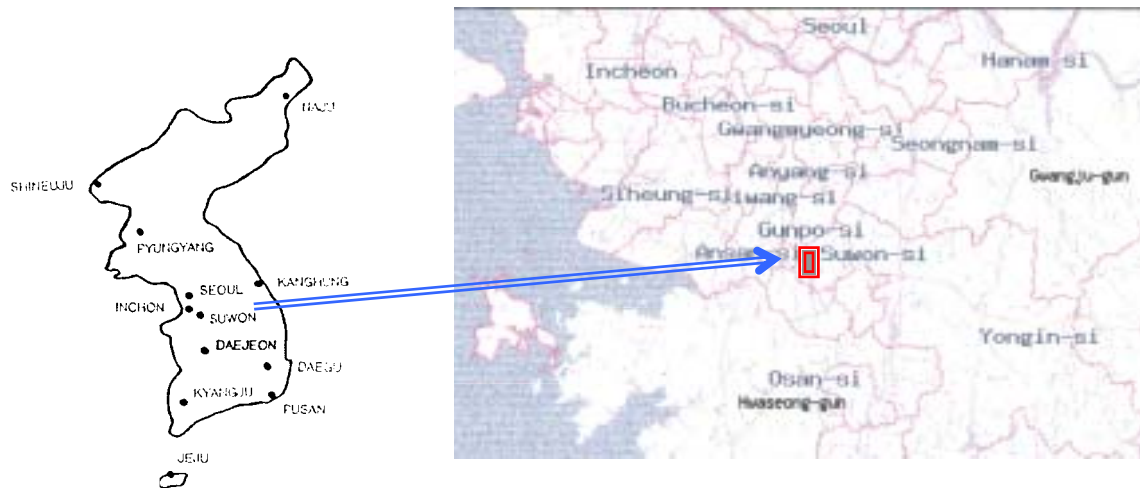


Figure1. Map of the Suwon City area.

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 at 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.

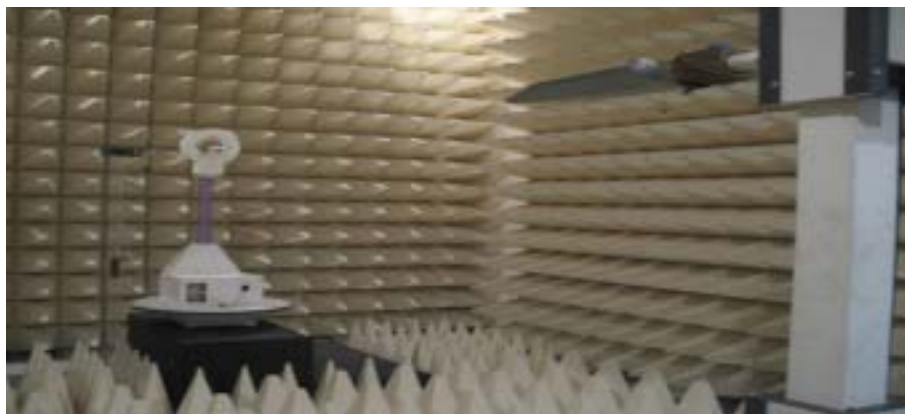


Figure2. Photograph of 3m Fully-Anechoic Chamber

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

Name Of Equipment	Model	Serial No.	Due Date
Spectrum Analyzer	ESI26	836119/010	2008-10-17
	E4440A(3Hz~26.5GHz)	MY46187454	2009-03-03
	E4440A(3Hz~26.5GHz)	MY41000233	2009-07-24
Signal Generator	SMR20	835197/030	2008-12-05
Network Analyzer	8753E	JP38160590	2009-06-20
Power Sensor	8485A	3318A19924	2008-10-01
Power Meter	E4419B	GB41293846	2008-09-06
Pre-Amplifier	8449B	3008A00691	2008-12-24
Communication test set	8960	GB42230535	2009-01-02
	8960	MY47510060	2009-03-03
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	100134	2009-10-24
Dipole Antenna	UHA-9105	9105-2412	2009-11-07
Communication test set	CMU200	109162	2008-10-17
Receive Antenna	HL040	353255/019	2008-09-20
	HL040	353255/020	Not Used
Power Supply	E3640A	MY40003594	2009-06-20
Divider	11636B	51946	Not Required
	11636B	51942	Not Required
High Pass Filter	WHK1.0/15G-10SS	1	Not Required
	WHK3.5/18G-10SS	4	Not Required
Environmental Chamber	SH-241	92000549	2008-11-15
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”, October 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 RC3

Band	Channel	CDMA 2000 RC	1x EV-DO RTAP	1x EV-DO FTAP	1x EV-DO Rev. A RETAP	1x EV-DO Rev. A FETAP	SO2	SO55	TDSO SO32
Cellular	1013	RC1	-	-	-	-	24.30	24.30	-
		RC3	24.20	24.23	24.19	24.38	24.33	24.33	24.18
	384	RC1	-	-	-	-	24.70	24.70	-
		RC3	24.48	24.53	24.39	24.41	24.71	24.71	24.58
	777	RC1	-	-	-	-	24.53	24.54	-
		RC3	24.30	24.37	24.13	24.18	24.55	24.56	24.33
PCS	25	RC1	-	-	-	-	24.12	24.11	-
		RC3	24.10	24.10	24.05	24.18	24.12	24.20	24.13
	600	RC1	-	-	-	-	24.45	24.33	-
		RC3	24.45	24.30	23.86	23.85	24.46	24.46	24.32
	1175	RC1	-	-	-	-	24.20	24.20	-
		RC3	24.17	24.06	23.63	23.64	24.27	24.30	24.18

Table 5-3
Maximum Power Output Table for SCH-i910

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

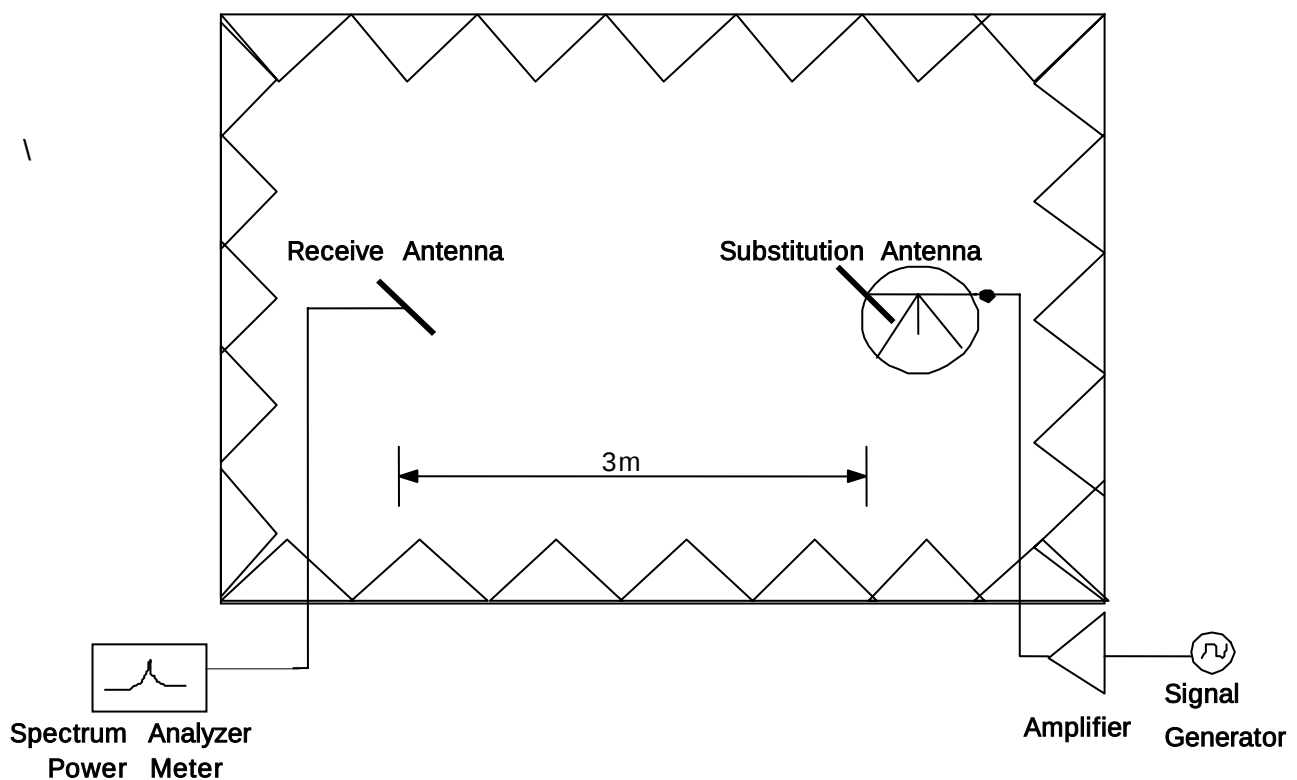


Figure 3. Diagram of ERP/EIRP test Set-up

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

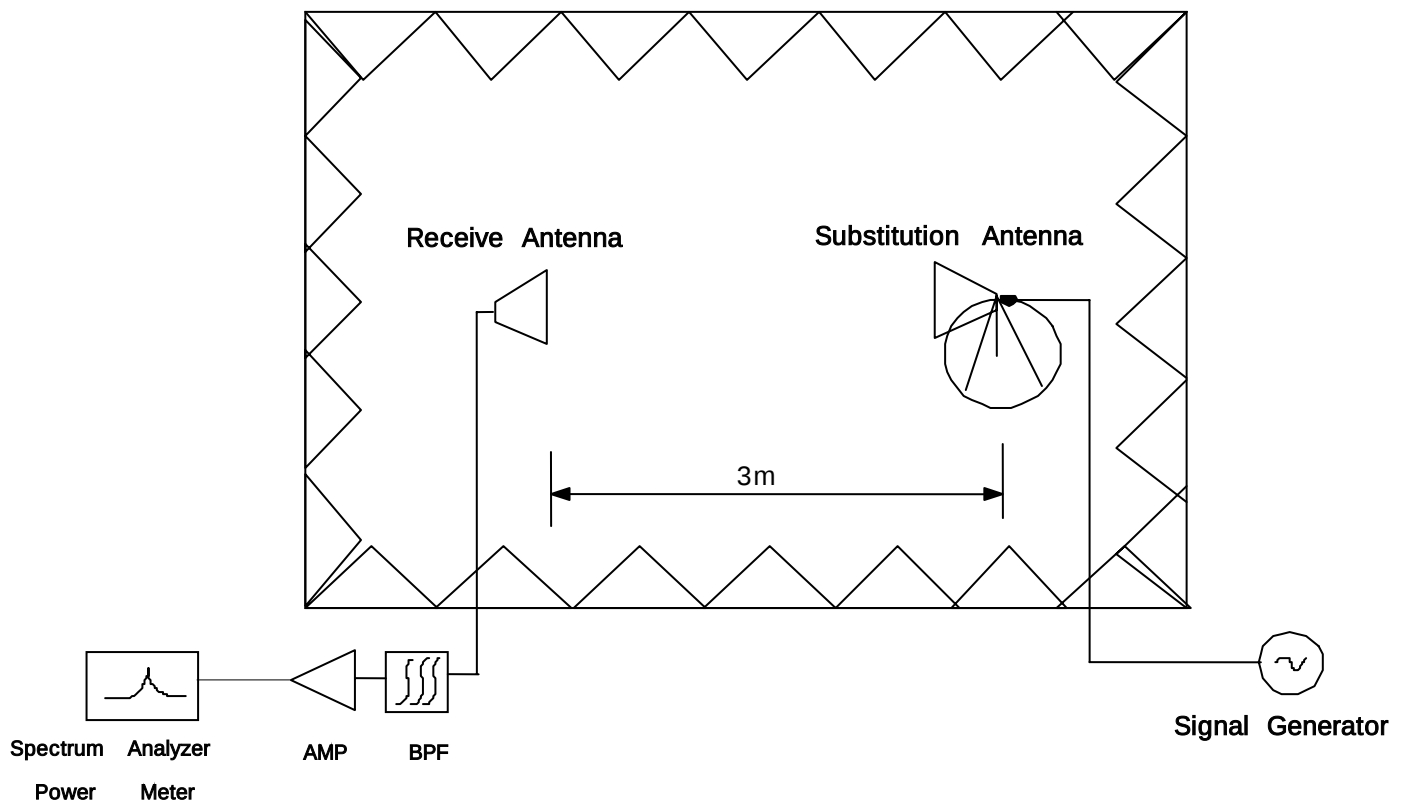


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

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 10th 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 2nd Harmonic(3760MHz)

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

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.

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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 ± 0.00025 ($\pm 2.5\text{ppm}$) 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	23.00	H	-13.73	-0.67	-13.06
		V	-14.05	-0.67	-13.38
836.52	21.00	H	-15.90	-0.73	-15.17
		V	-15.94	-0.73	-15.21
848.31	22.00	H	-16.60	-0.79	-15.81
		V	-15.68	-0.79	-14.89

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-13.14	H	278/90	22.92	0.196	Standard
836.52	-14.89	H	285/90	21.28	0.134	Standard
848.31	-16.14	H	285/90	21.67	0.147	Standard

NOTE : Standard batteries are the only battery options for this phone

- 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	22.00	H	-16.67	9.70	-26.37
		V	-16.67	9.70	-26.37
1880.00	24.00	H	-14.88	9.70	-24.58
		V	-14.84	9.70	-24.54
1908.75	25.00	H	-14.41	9.70	-24.11
		V	-14.08	9.70	-23.78

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-26.68	V	326/100	21.69	0.148	Standard
1880.00	-24.96	V	330/100	23.58	0.228	Standard
1908.75	-24.21	V	266/90	24.57	0.286	Standard

NOTE : Standard batteries are the only battery options for this phone

- 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 : 22.92 dBm = 0.196 W

Modulation Signal : CDMA

$$\text{Limit : } 43 + 10\log_{10}(P) = 35.92 \text{ dBc}$$

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-41.18	V	54.24
	3	2474.10	-68.68	H	76.16
	4	3298.80	-68.43	V	72.37
	5	4123.50	-	-	-
	6	4948.20	-	-	-
	7	5772.90	-	-	-
384	2	1673.04	-46.59	V	58.40
	3	2509.56	-68.12	H	75.79
	4	3346.08	-67.78	V	72.02
	5	4182.68	-	-	-
	6	5019.12	-	-	-
	7	5855.64	-	-	-
777	2	1696.62	-44.19	V	55.70
	3	2544.93	-67.39	H	75.23
	4	3393.24	-68.86	V	72.88
	5	4241.55	-	-	-
	6	5089.86	-	-	-
	7	5938.17	-	-	-

NOTE :

1. "-" Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. The spectrum is measured from 30MHz to the 10th harmonic and All modes of operation were investigated, and the worst-case results are reported..

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 : 24.57 dBm = 0.286 W

Modulation Signal : PCS

Limit : $43 + 10\log_{10}(P) = 37.57$ dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
25	2	3702.50	-66.62	V	69.60
	3	5553.75	-66.84	H	65.09
	4	7405.55	-69.12	H	62.80
	5	9256.25	-	-	-
	6	11107.50	-	-	-
	7	12958.75	-	-	-
600	2	3760.00	-66.96	V	69.25
	3	5640.00	-67.26	H	65.58
	4	7520.00	-68.93	H	63.01
	5	9400.00	-	-	-
	6	11280.00	-	-	-
	7	13160.00	-	-	-
1175	2	3817.50	-60.85	H	63.32
	3	5726.25	-67.35	H	65.00
	4	7635.00	-68.88	V	62.02
	5	9543.75	-	-	-
	6	11452.50	-	-	-
	7	13361.25	-	-	-

NOTE :

1. "-" Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. The spectrum is measured from 30MHz to the 10th harmonic and All modes of operation were investigated, and the worst-case results are reported..

Radiated Spurious Emission measurements at 3 meters by Substitution Method

6.5 CDMA Radiated Spurious & Harmonic Conversion Table

Date : July 31, 2008

Test Engineer : SH ONG

Tx Cable loss
Tx Horn Ant Gain
Tx Level to radiate -13dBm
ESI Level received from Tx with -13dBm
Tested Level from EUT
= ERP+2.14 – (-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	-8.82	9.50	-13.70	-25.92	-25.43	-43.64	-41.18	56.21	54.24
	3	2474.10	-11.14	10.70	-12.60	-31.01	-31.15	-68.68	-69.72	76.16	77.06
	4	3298.80	-13.37	12.30	-11.90	-34.18	-34.55	-68.59	-68.43	72.90	72.37
	5	4123.50	-14.90	12.50	-10.60	-37.63	-37.32	-	-	-	-
	6	4948.20	-16.77	12.70	-8.90	-39.50	-39.23	-	-	-	-
	7	5772.90	-18.24	12.90	-7.70	-41.52	-42.18	-	-	-	-
384	2	1673.04	-8.89	9.50	-13.60	-26.82	-26.51	-46.73	-46.59	58.40	58.57
	3	2509.56	-11.30	10.70	-12.40	-30.82	-30.90	-68.12	-68.59	75.79	76.18
	4	3346.08	-13.23	12.30	-12.10	-34.27	-34.19	-67.80	-67.78	72.02	72.08
	5	4182.68	-15.03	12.50	-10.50	-36.98	-37.13	-	-	-	-
	6	5019.12	-17.37	12.70	-8.30	-39.97	-40.10	-	-	-	-
	7	5855.64	-18.51	12.90	-7.40	-43.15	-42.29	-	-	-	-
777	2	1696.62	-8.86	9.50	-13.60	-26.97	-26.98	-44.85	-44.19	56.37	55.70
	3	2544.93	-11.34	10.70	-12.40	-30.65	-30.99	-67.39	-68.08	75.23	75.58
	4	3393.24	-13.31	12.30	-12.00	-34.18	-34.47	-69.36	-68.86	73.67	72.88
	5	4241.55	-15.10	12.50	-10.40	-37.23	-37.26	-	-	-	-
	6	5089.86	-17.35	12.70	-8.40	-40.39	-40.12	-	-	-	-
	7	5938.17	-18.38	12.90	-7.50	-42.23	-42.50	-	-	-	-

6.6 PCS Radiated Spurious & Harmonic Conversion Table

Date : July 31, 2008

Test Engineer : SH ONG

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 : H dBm	Result EUT : H (dBc)	Result EUT : V (dBc)
25	2	3702.50	-13.91	12.40	-11.50	-36.82	-36.64	-67.31	-66.62	70.11	69.60
	3	5553.75	-18.04	12.90	-7.90	-41.37	-41.37	-66.84	-67.91	65.09	66.16
	4	7405.00	-20.27	10.50	-3.20	-45.94	-45.35	-69.12	-69.44	62.80	63.71
	5	9256.25	-23.06	11.20	-1.10	-51.85	-49.57	-	-	-	-
	6	11107.50	-25.92	11.60	1.30	-54.92	-54.59	-	-	-	-
	7	12958.75	-28.16	12.90	2.30	-56.76	-56.49	-	-	-	-
600	2	3760.00	-14.05	12.40	-11.40	-37.50	-36.99	-67.13	-66.96	69.25	69.59
	3	5640.00	-18.03	12.90	-7.90	-41.30	-41.76	-67.26	-68.74	65.58	66.60
	4	7520.00	-20.41	10.60	-3.20	-45.54	-45.69	-68.93	-69.23	63.01	63.16
	5	9400.00	-22.44	11.60	-2.20	-51.20	-50.63	-	-	-	-
	6	11280.00	-26.22	12.10	1.10	-54.35	-54.25	-	-	-	-
	7	13160.00	-27.70	12.80	1.90	-57.39	-57.52	-	-	-	-
1175	2	3817.50	-14.59	12.40	-10.80	-37.15	-37.91	-60.85	-64.80	63.32	66.51
	3	5726.25	-18.34	13.00	-7.70	-41.97	-41.90	-67.35	-68.31	65.00	66.03
	4	7635.00	-20.39	11.20	-3.80	-46.12	-46.48	-69.36	-68.88	62.86	62.02
	5	9543.75	-23.07	11.70	-1.60	-50.91	-50.34	-	-	-	-
	6	11452.50	-26.21	11.70	1.50	-54.31	-54.64	-	-	-	-
	7	13361.25	-27.83	12.30	2.50	-58.60	-58.83	-	-	-	-

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 : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	-12.70	836,519,987	-0.000002	-0.015
100%		-30	5.46	836,520,005	0.000001	0.007
100%		-20	24.16	836,520,024	0.000003	0.029
100%		-10	16.43	836,520,016	0.000002	0.020
100%		0	-4.52	836,519,995	-0.000001	-0.005
100%		+10	-14.70	836,519,985	-0.000002	-0.018
100%		+20	-12.70	836,519,987	-0.000002	-0.015
100%		+30	13.80	836,520,014	0.000002	0.016
100%		+40	16.74	836,520,017	0.000002	0.020
100%		+50	-18.40	836,519,982	-0.000002	-0.022
100%		+60	-19.40	836,519,981	-0.000002	-0.023
85%	3.50	+20	17.65	836,520,018	0.000002	0.021
115%	4.26	+20	18.57	836,520,019	0.000002	0.022
Batt. Endpoint	3.50	+20	17.65	836,520,018	0.000002	0.021

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

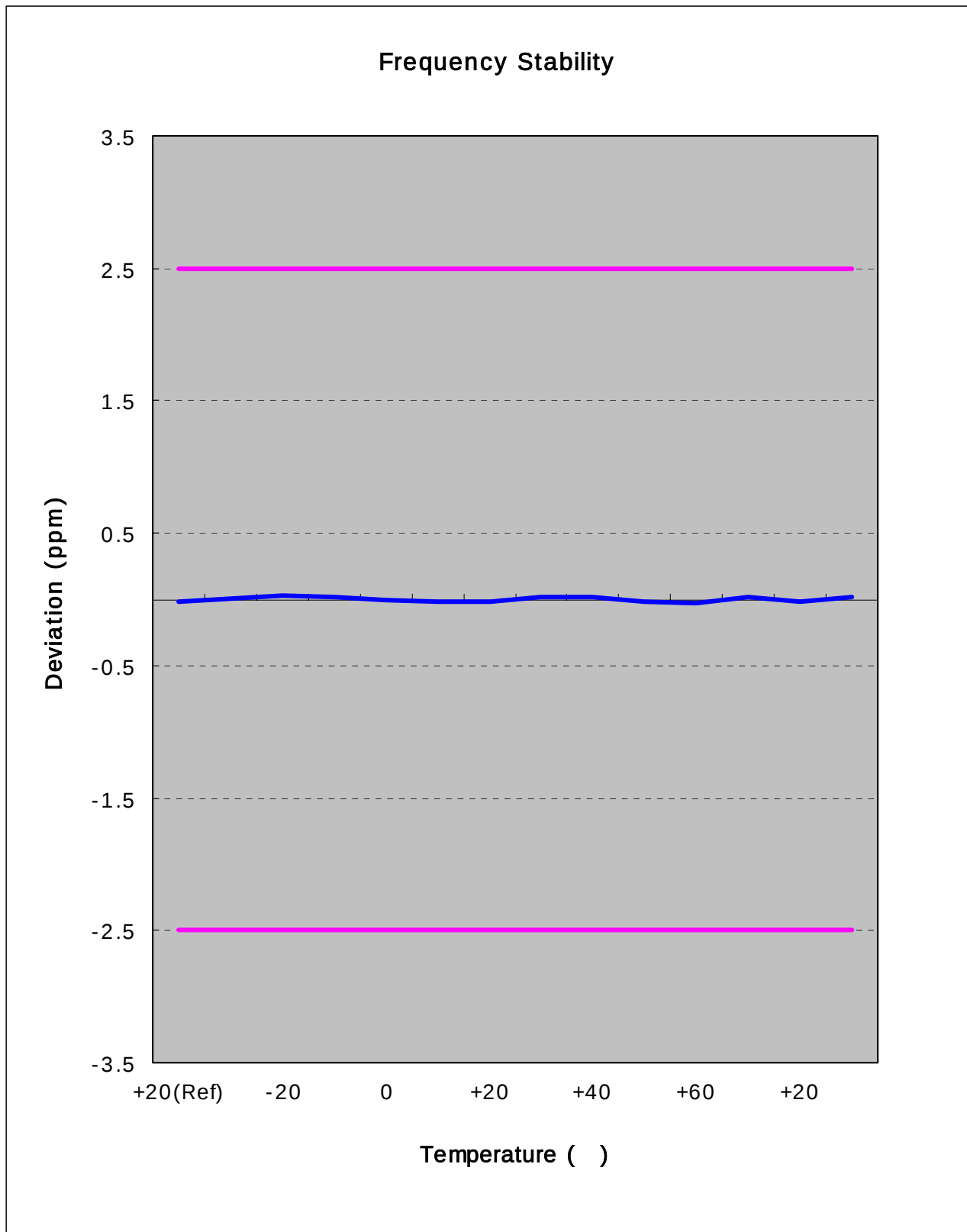
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	10.20	1,880,000,010	0.000001	0.005
100%		-30	-2.60	1,879,999,997	0.000000	-0.001
100%		-20	18.30	1,880,000,018	0.000001	0.010
100%		-10	9.40	1,880,000,009	0.000001	0.005
100%		0	0.57	1,880,000,001	0.000000	0.000
100%		+10	-3.70	1,879,999,996	0.000000	-0.002
100%		+20	10.20	1,880,000,010	0.000001	0.005
100%		+30	6.80	1,880,000,007	0.000000	0.004
100%		+40	-3.74	1,879,999,996	0.000000	-0.002
100%		+50	3.48	1,880,000,003	0.000000	0.002
100%		+60	-21.40	1,879,999,979	-0.000001	-0.011
85%	3.50	+20	-12.32	1,879,999,988	-0.000001	-0.007
115%	4.26	+20	-15.47	1,879,999,985	-0.000001	-0.008
Batt. Endpoint	3.50	+20	-12.32	1,879,999,988	-0.000001	-0.007

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

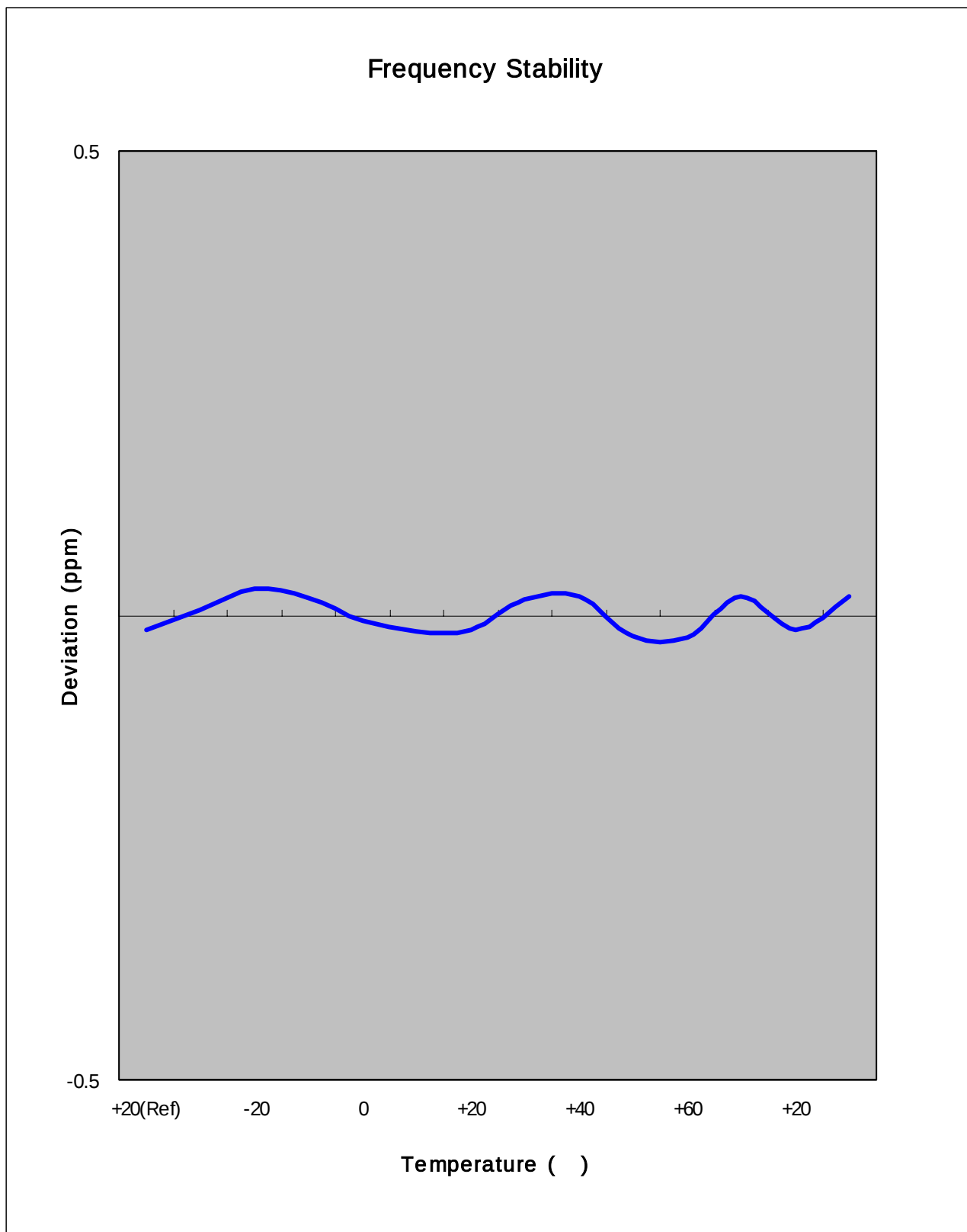
The EUT is tested down to the battery end point

6.7.3 CDMA Frequency Stability Graph



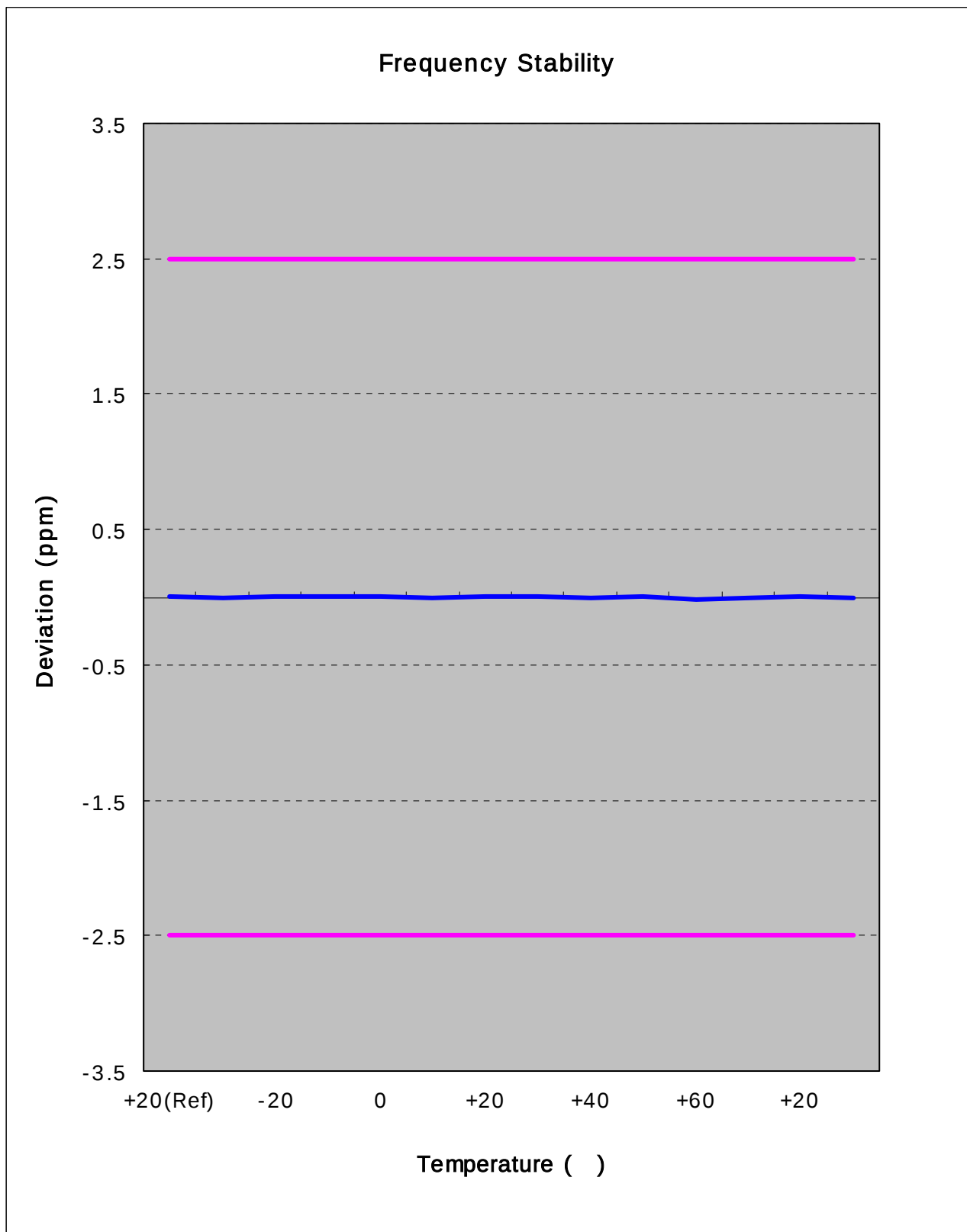
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Zoom In



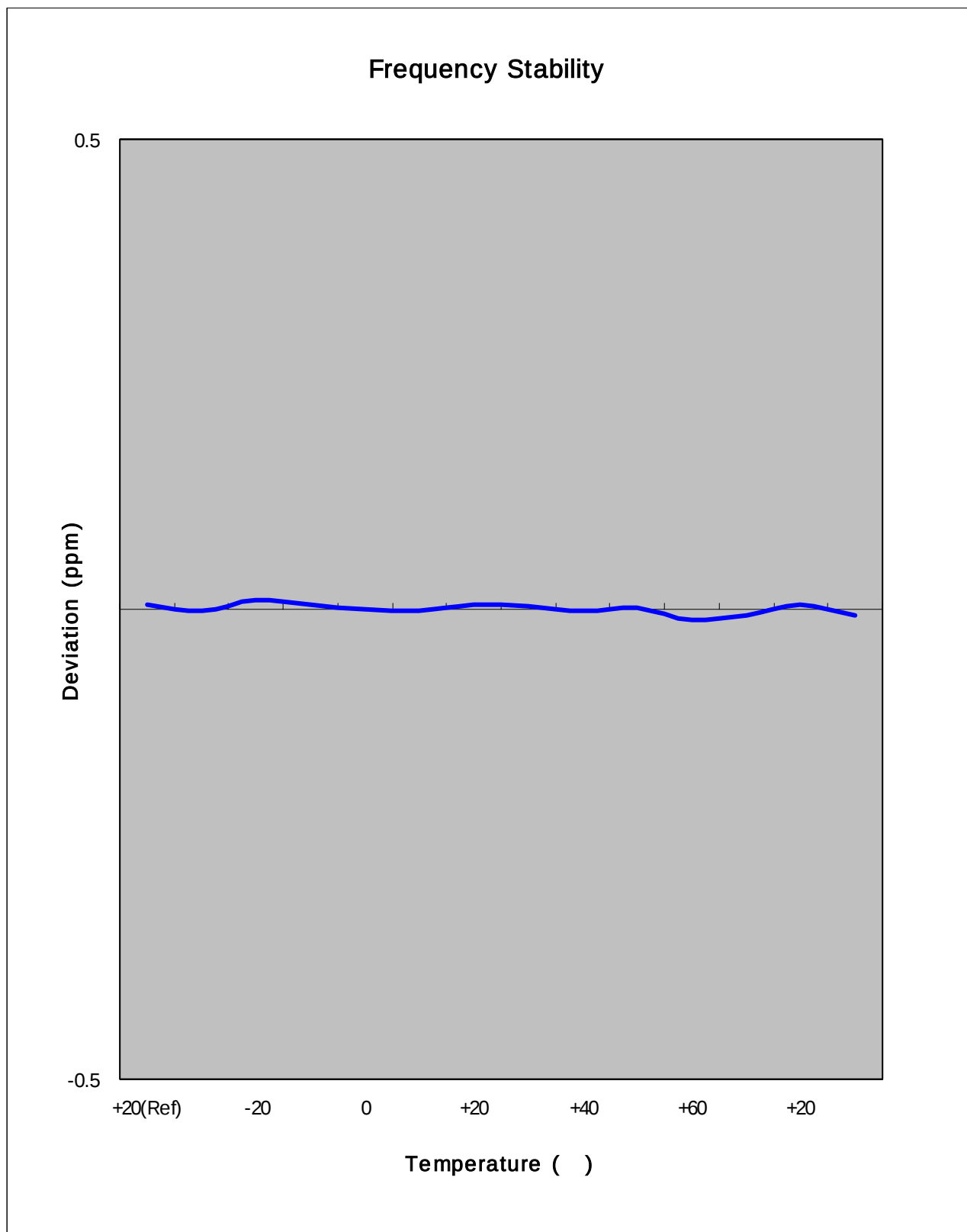
– End of page –

6.7.4 PCS Frequency Stability Graph



– End of page –

Zoom In



- End of page -

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, EvDO and WLAN

FCC ID : A3LSCHI910 complies with all the requirements of Parts 2, 22, 24 of the FCC Rules.

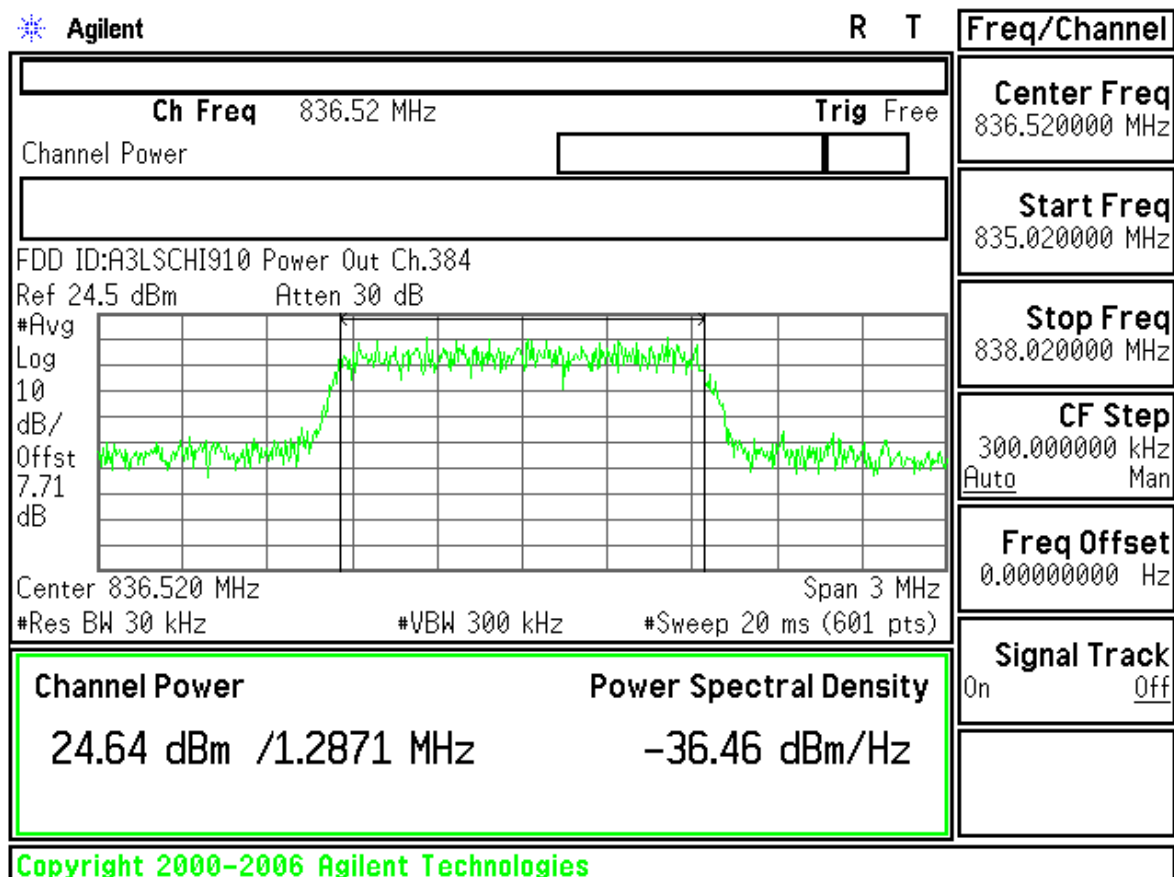
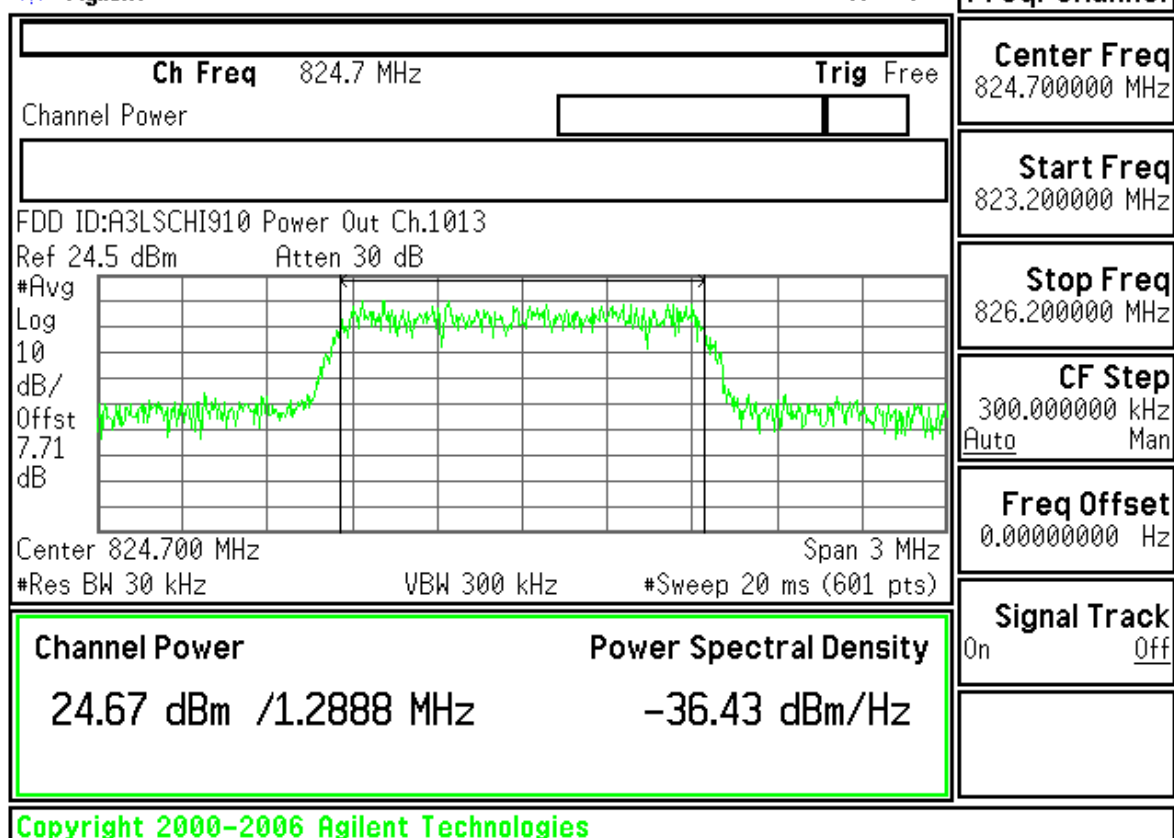
- End of page -

9. TEST PLOTS



Agilent

R T



Agilent

R T

Freq/Channel

Ch Freq 848.31 MHz Trig Free

Channel Power

FCC ID:A3LSCHI910 Power Out Ch.777

Ref 24.5 dBm

Atten 30 dB

#Avg

Log

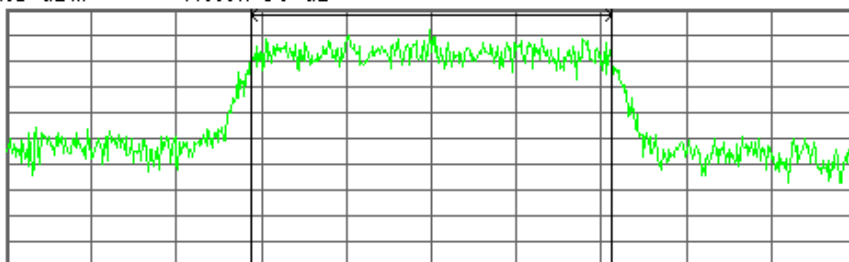
10

dB/

Offst

7.71

dB



Center 848.310 MHz

Span 3 MHz

#Res BW 30 kHz

#VBW 300 kHz

#Sweep 20 ms (601 pts)

Channel Power

24.52 dBm /1.2646 MHz

Power Spectral Density

-36.50 dBm/Hz

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

Stop Freq
849.810000 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 T

Freq/Channel

FCC ID:A3LSCHI910 Power Out Ch.1013

Ref 24.5 dBm

Atten 30 dB

#Samp

Log

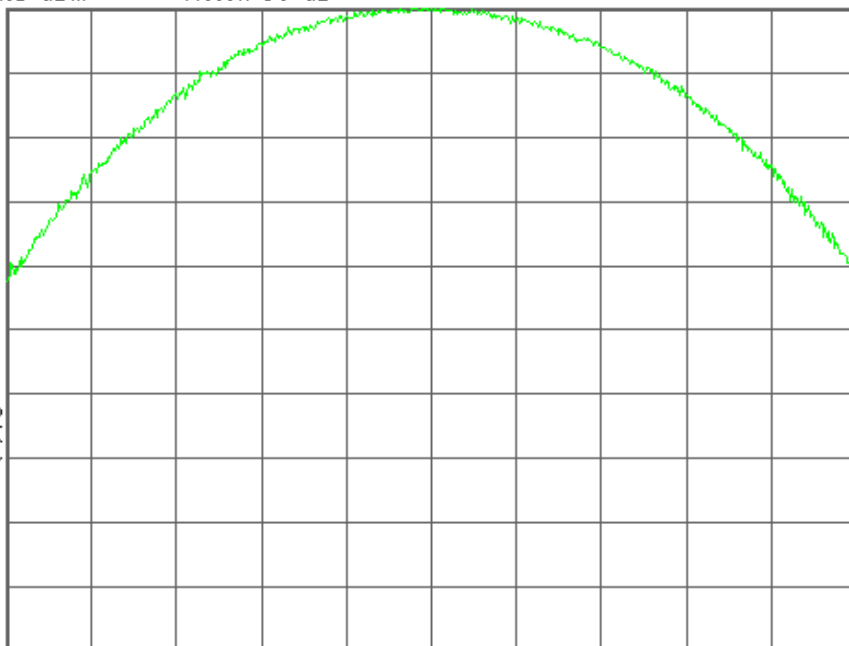
10

dB/

Offst

7.71

dB



Center 824.70 MHz

Span 10 MHz

#Res BW 3 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

#LgAv

100

W1 S2

S3 FC

E(f):

FTun

Swp

Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

Stop Freq
829.700000 MHz

CF Step
1.00000000 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

FCC ID:A3LSCHI910 Power Out Ch.384

Ref 24.5 dBm

Atten 30 dB

#Samp

Log

10

dB/

Offst

7.71

dB

#LgAv

100

W1 S2

S3 FC

$E(f)$:

FTun

Swp

Center 836.52 MHz

Span 10 MHz

#Res BW 3 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Center Freq

836.520000 MHz

Start Freq

831.520000 MHz

Stop Freq

841.520000 MHz

CF Step

1.00000000 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

FCC ID:A3LSCHI910 Power Out Ch.777

Ref 24.5 dBm

Atten 30 dB

#Samp

Log

10

dB/

Offst

7.71

dB

#LgAv

100

W1 S2

S3 FC

$E(f)$:

FTun

Swp

Center 848.31 MHz

Span 10 MHz

#Res BW 3 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Center Freq

848.310000 MHz

Start Freq

843.310000 MHz

Stop Freq

853.310000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

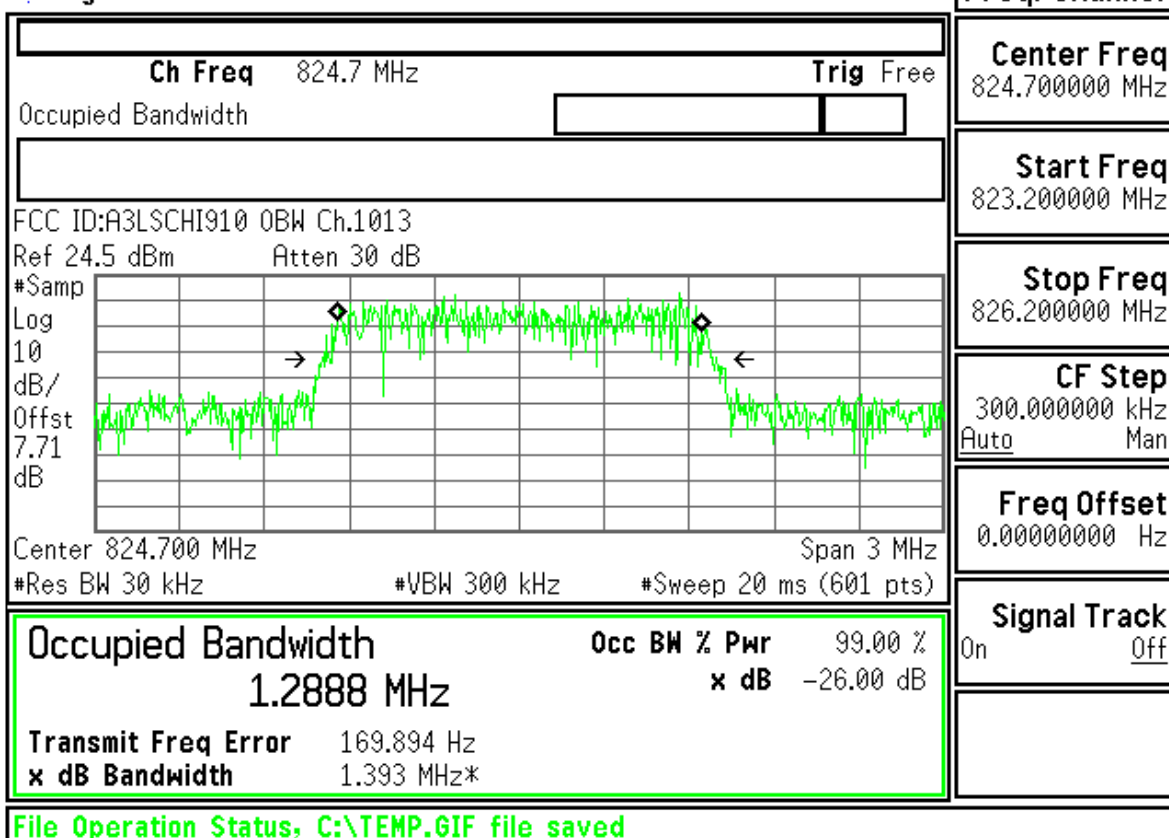
On

Off

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

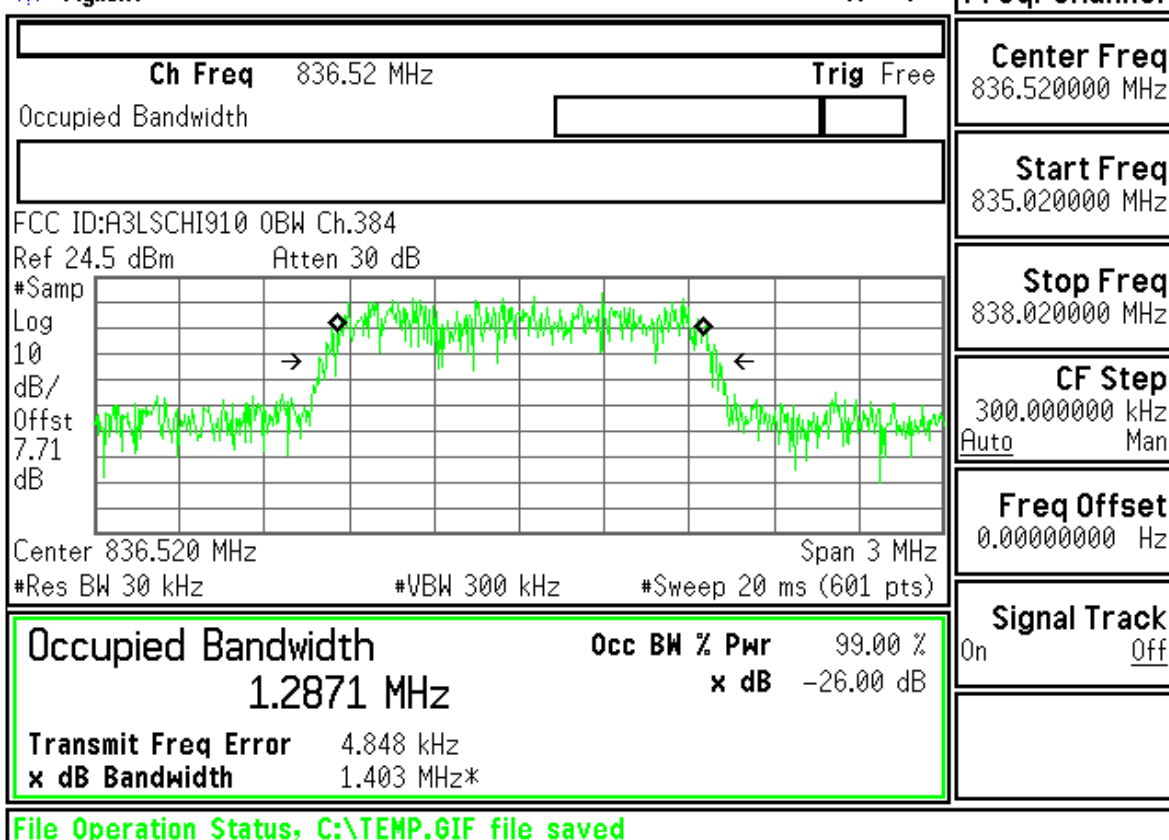
Agilent

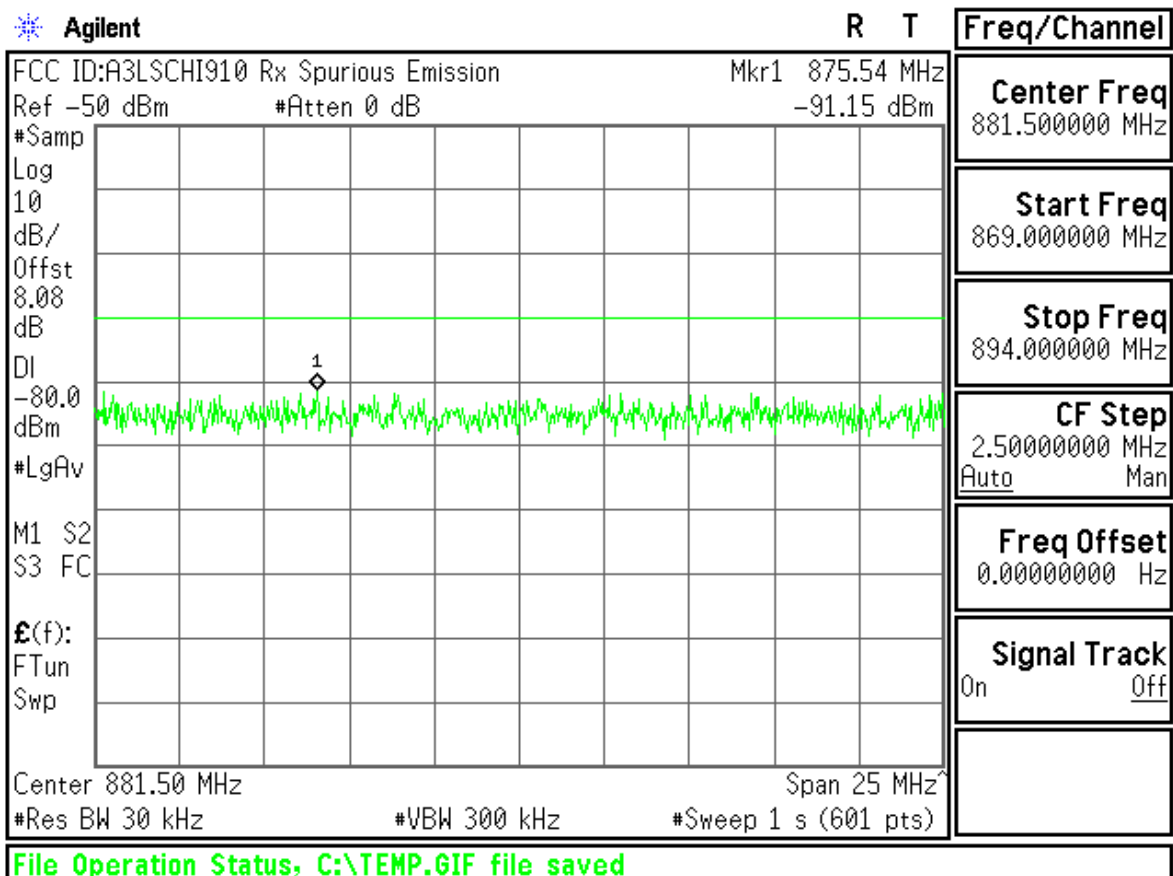
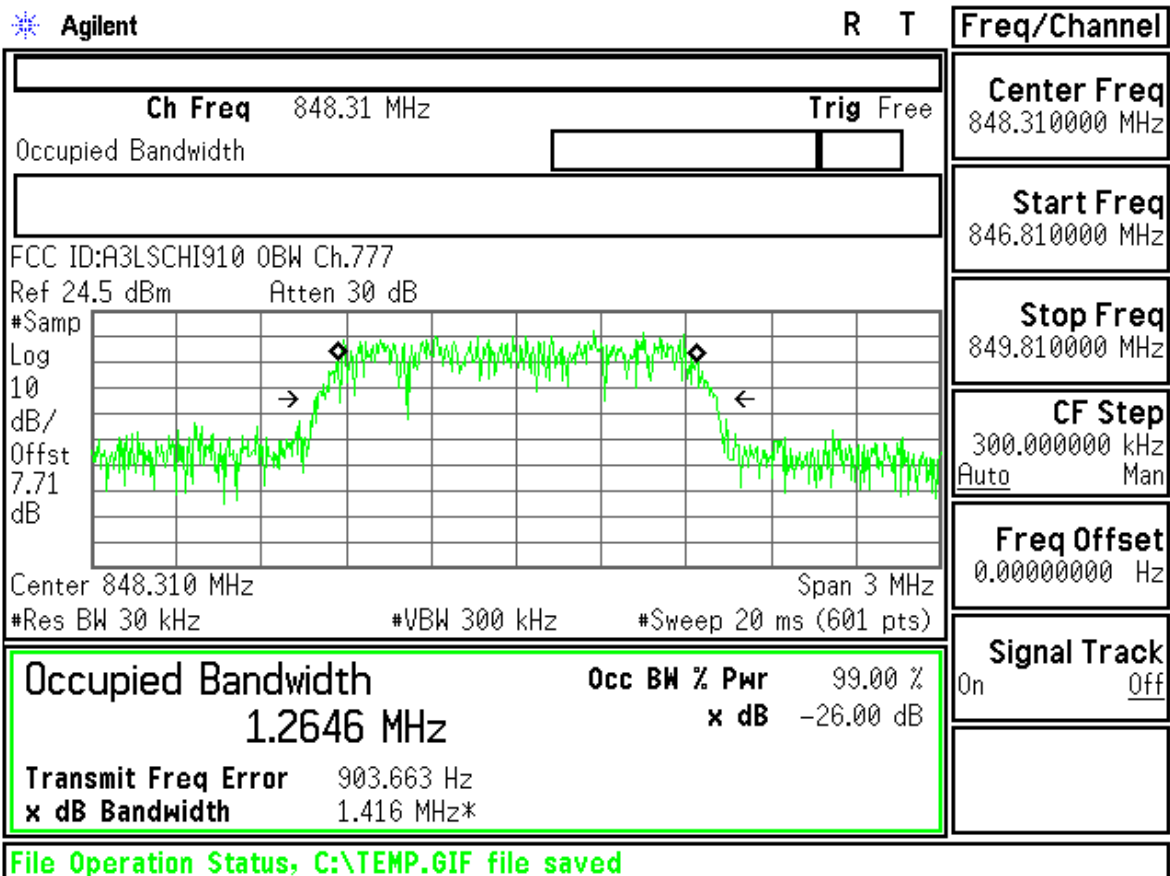
R T



Agilent

R T





Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.1013

Ref 24.5 dBm Atten 30 dB

#Peak

Log

10

dB/

Offst

7.71

dB

DI

-13.0

dBm

#LgAv

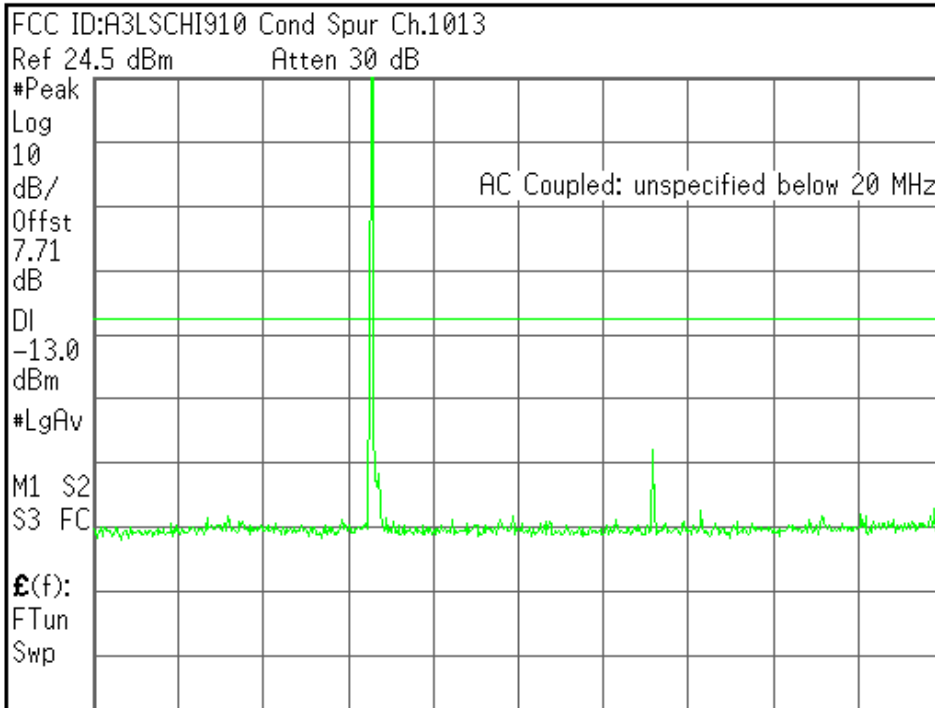
M1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp



Center 1.255 GHz Span 2.49 GHz
#Res BW 1 MHz #VBW 1 MHz Sweep 4.16 ms (601 pts)

Invalid suffix

Center Freq
1.25500000 GHz

Start Freq
10.00000000 MHz

Stop Freq
2.50000000 GHz

CF Step
249.0000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.1013

Ref 24.5 dBm Atten 30 dB

Mkr1 819.7 MHz

-26.58 dBm

#Peak

Log

10

dB/

Offst

7.71

dB

DI

-13.0

dBm

#LgAv

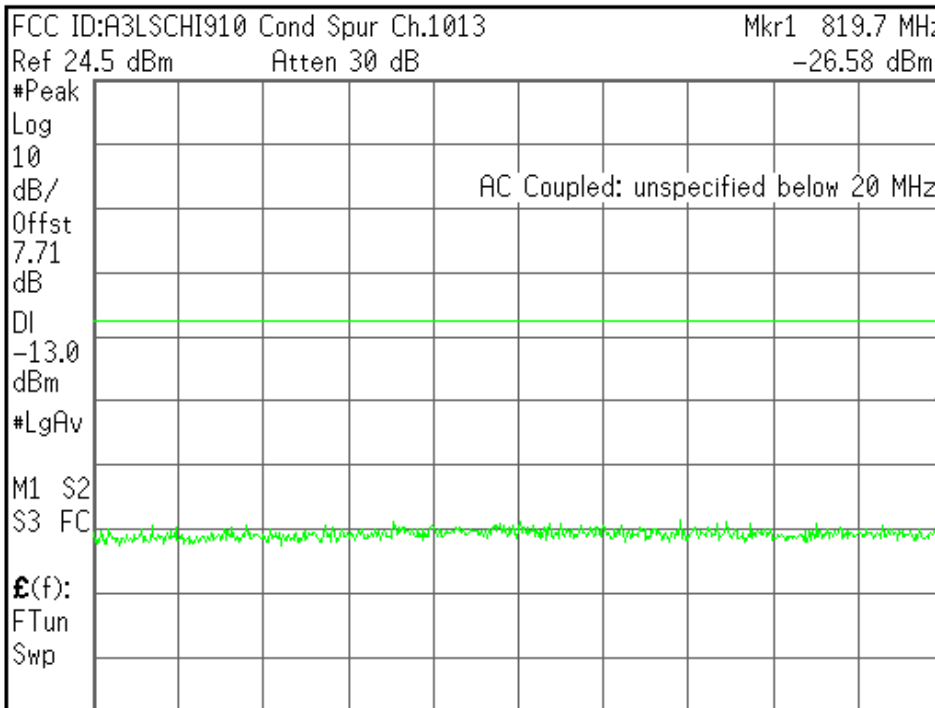
M1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp



Center 414.8 MHz Span 809.7 MHz
#Res BW 1 MHz #VBW 1 MHz Sweep 1.36 ms (601 pts)

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

Center Freq
414.850000 MHz

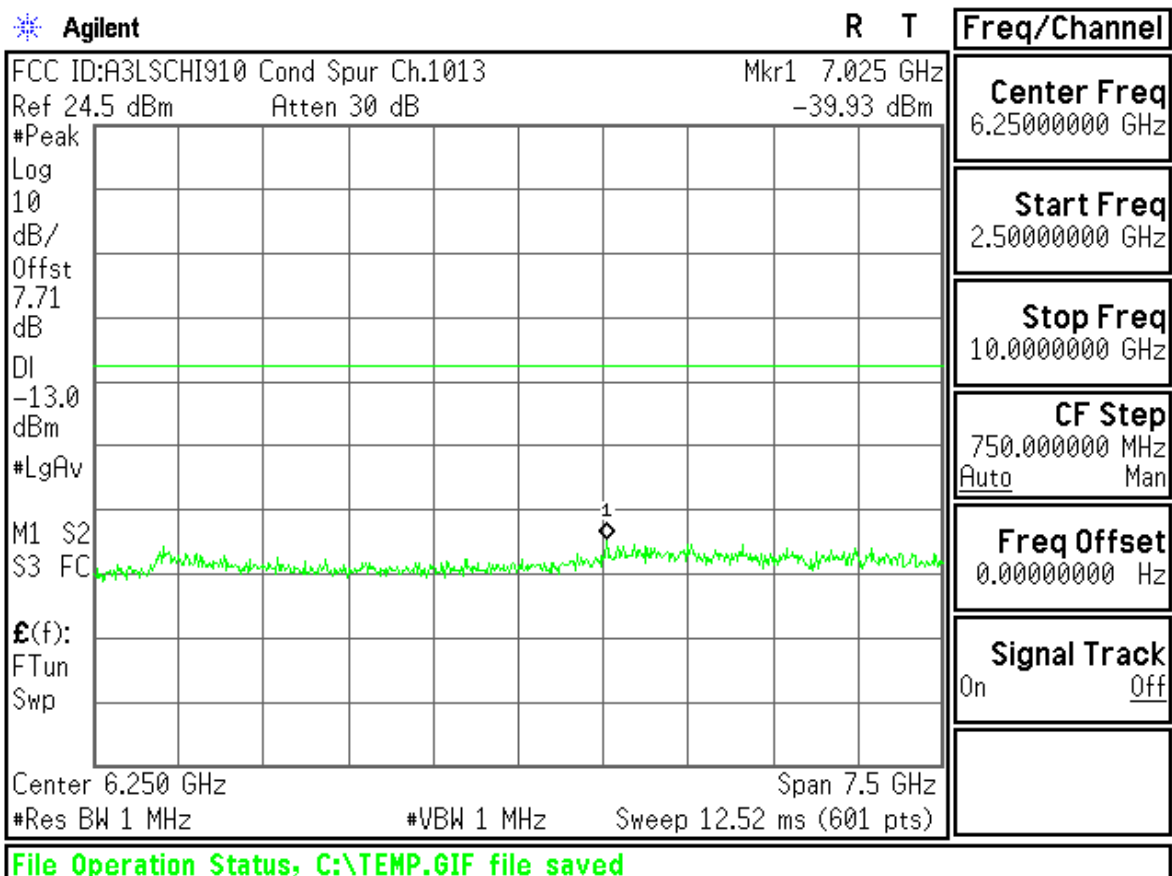
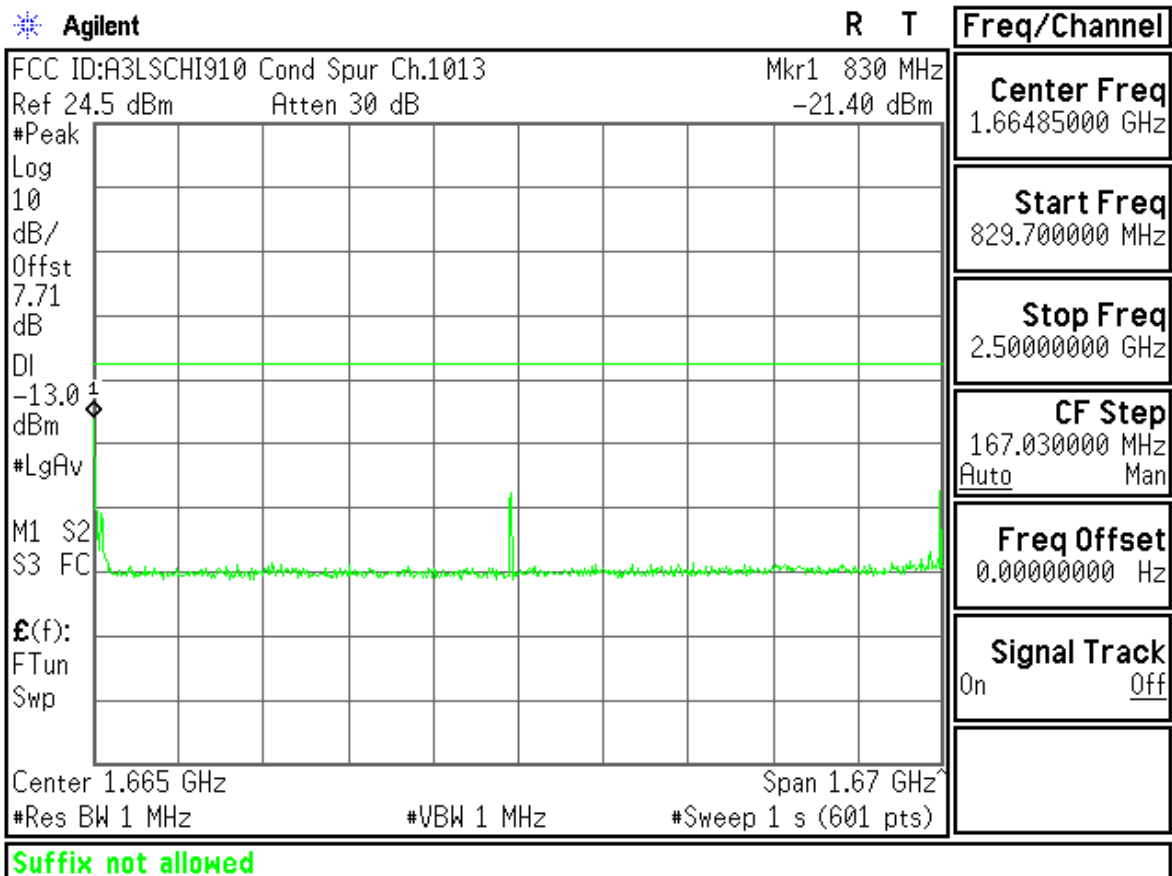
Start Freq
10.00000000 MHz

Stop Freq
819.700000 MHz

CF Step
80.9700000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.384

Ref 24.5 dBm Atten 30 dB

#Peak

Log

10

dB/

Offst

7.71

dB

DI

-13.0

dBm

#LgAv

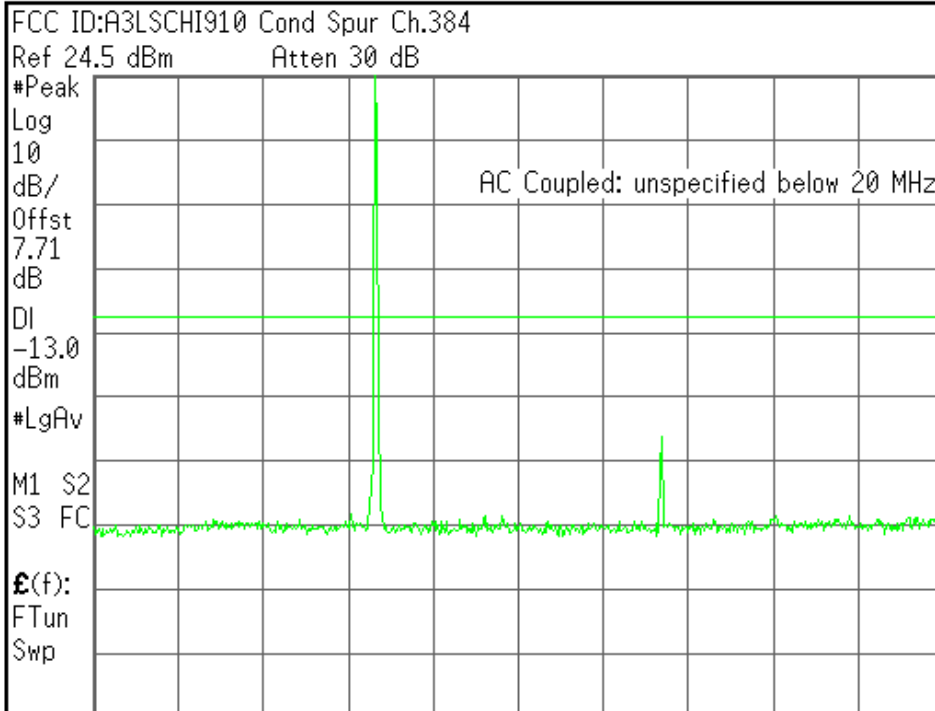
M1 S2

S3 FC

$E(f)$:

FTun

Swp



Center 1.255 GHz

#Res BW 1 MHz

#VBW 1 MHz

Span 2.49 GHz

Sweep 4.16 ms (601 pts)

Center Freq
1.25500000 GHz

Start Freq
10.00000000 MHz

Stop Freq
2.50000000 GHz

CF Step
249.0000000 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

FCC ID:A3LSCHI910 Cond Spur Ch.384

Ref 24.5 dBm Atten 30 dB

Mkr1 831.5 MHz

-25.99 dBm

#Peak

Log

10

dB/

Offst

7.71

dB

DI

-13.0

dBm

#LgAv

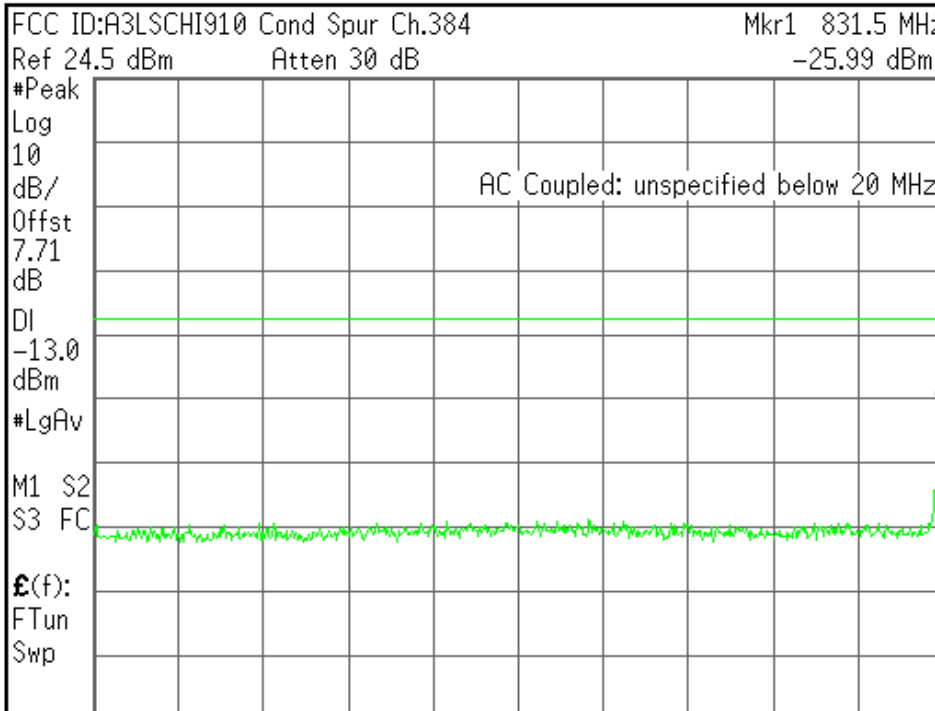
M1 S2

S3 FC

$E(f)$:

FTun

Swp



Center 420.8 MHz

#Res BW 1 MHz

#VBW 1 MHz

Span 821.5 MHz

Sweep 1.4 ms (601 pts)

Center Freq
420.760000 MHz

Start Freq
10.00000000 MHz

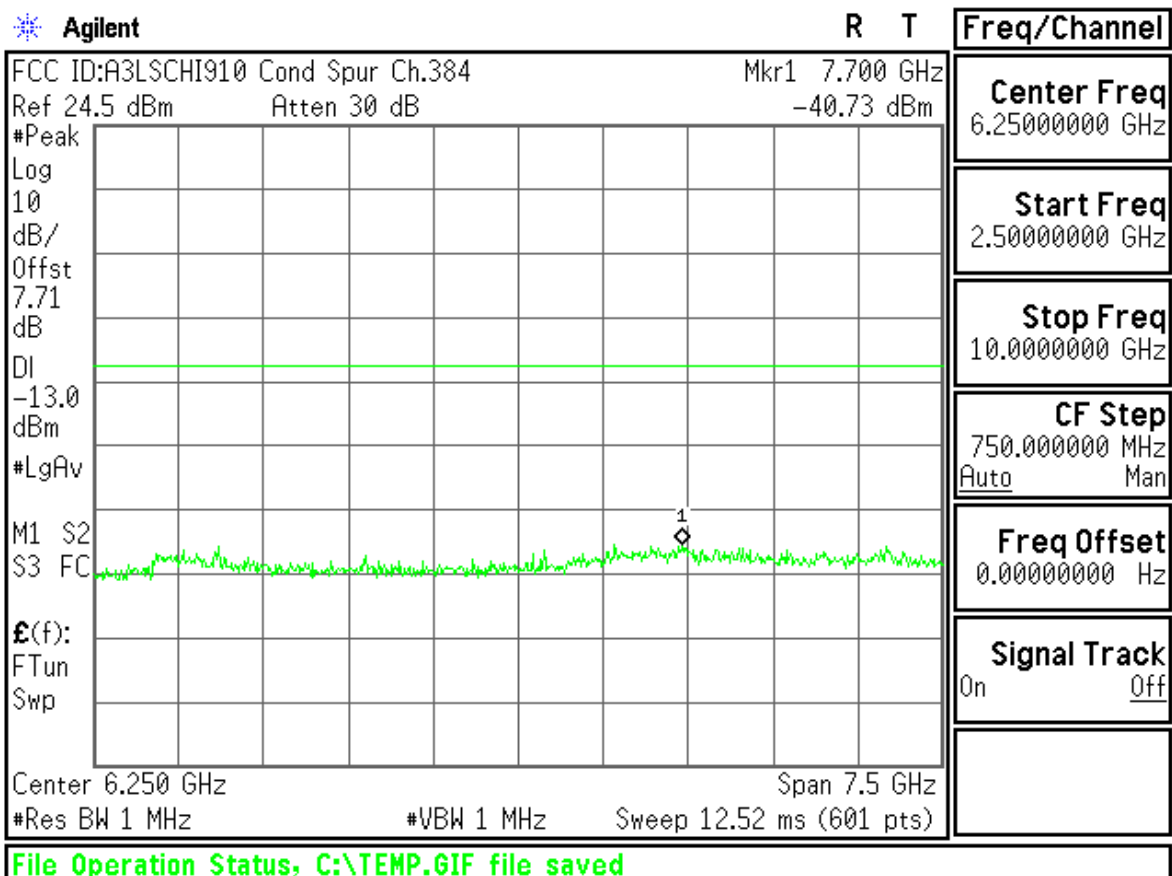
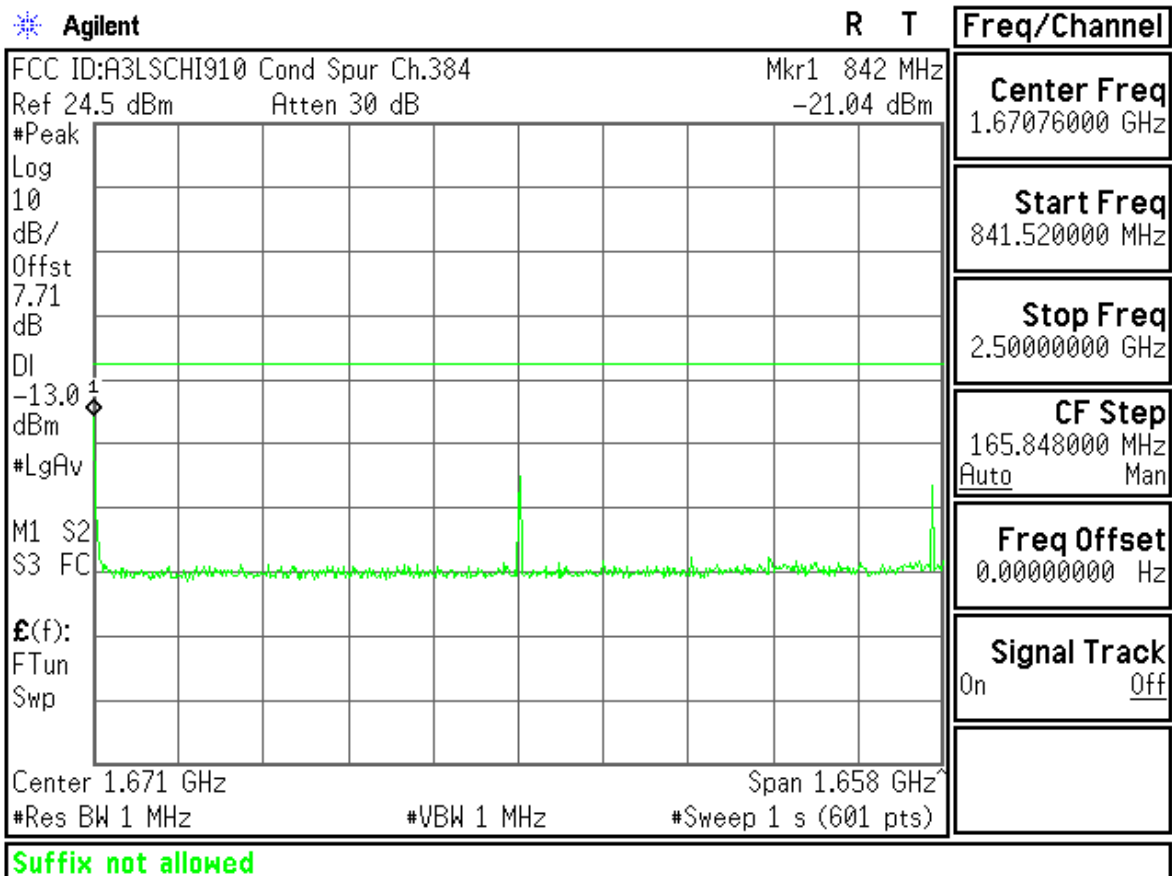
Stop Freq
831.520000 MHz

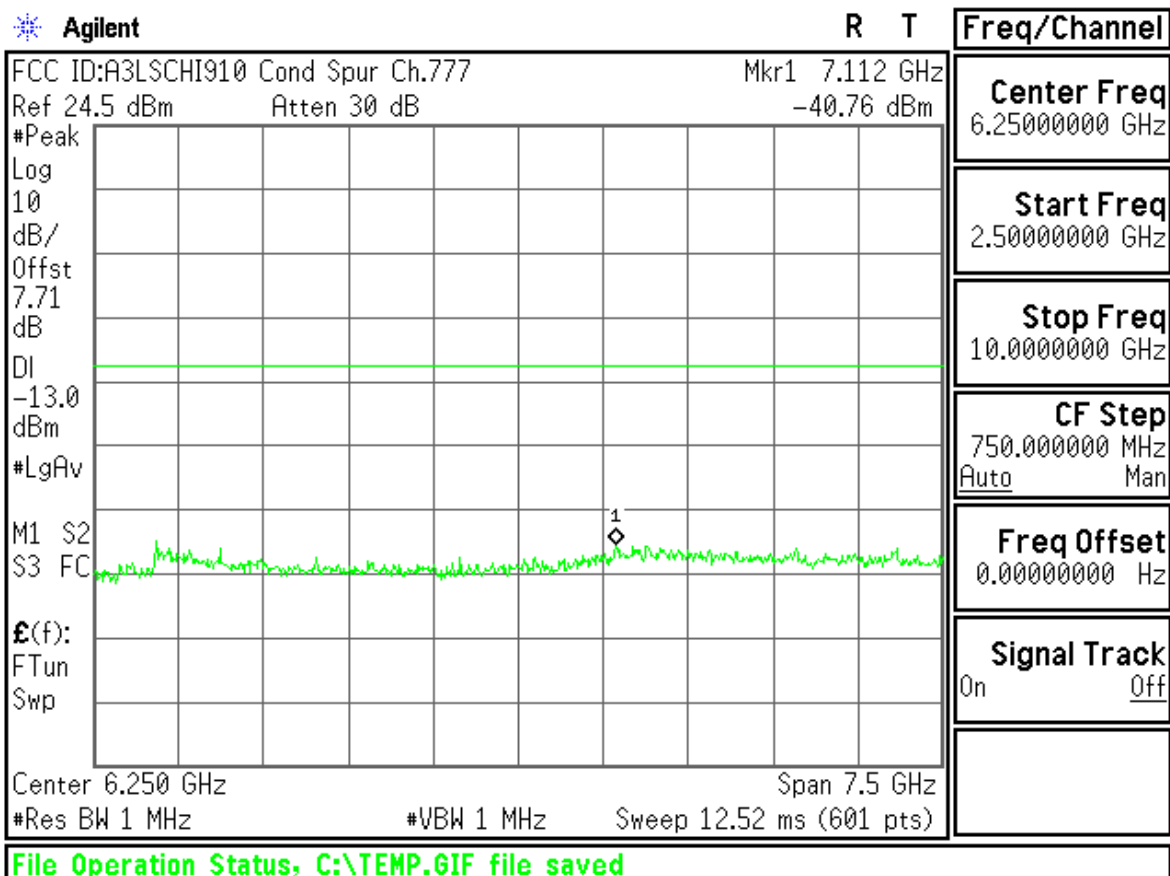
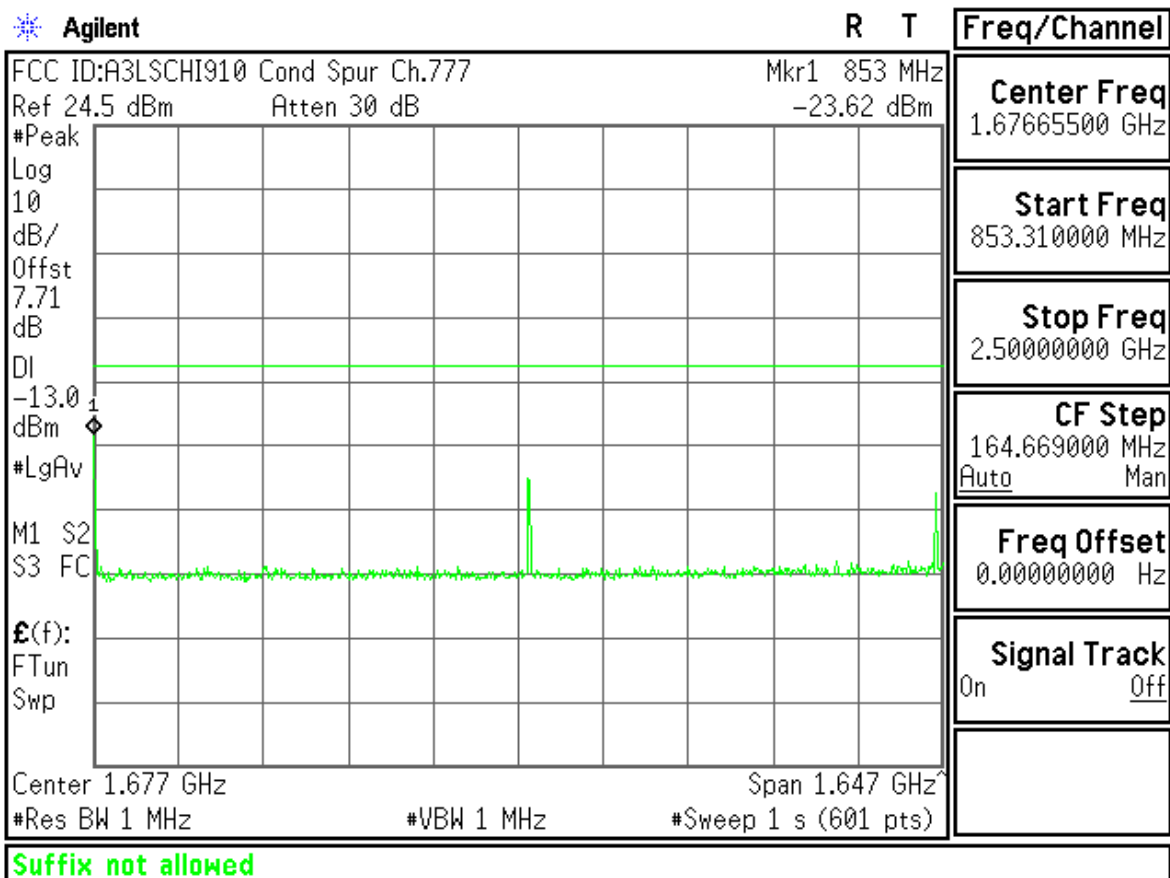
CF Step
82.1520000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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

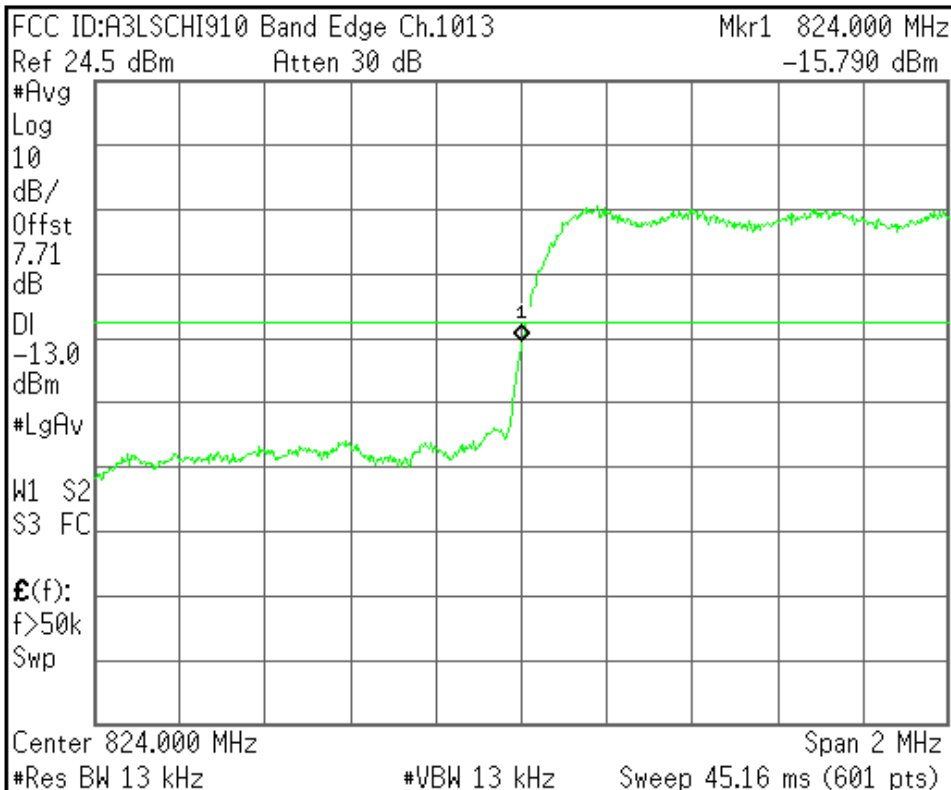




Agilent

R T

Freq/Channel



Center Freq
824.000000 MHz

Start Freq
823.000000 MHz

Stop Freq
825.000000 MHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

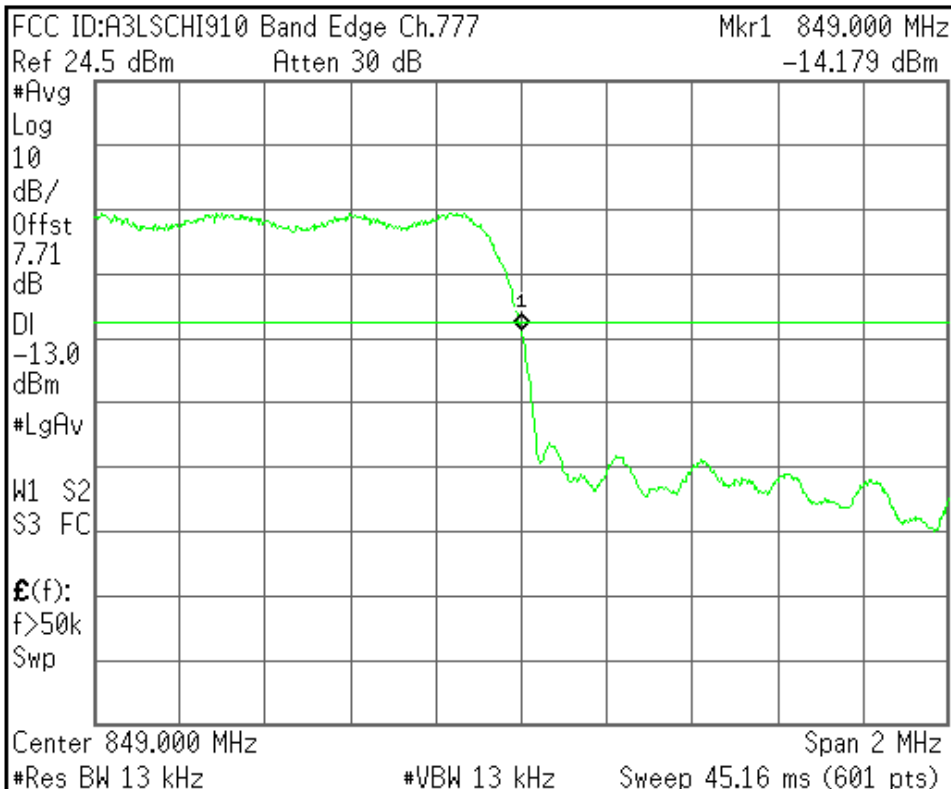
Signal Track
On Off

Invalid suffix

Agilent

R T

Freq/Channel



Center Freq
849.000000 MHz

Start Freq
848.000000 MHz

Stop Freq
850.000000 MHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

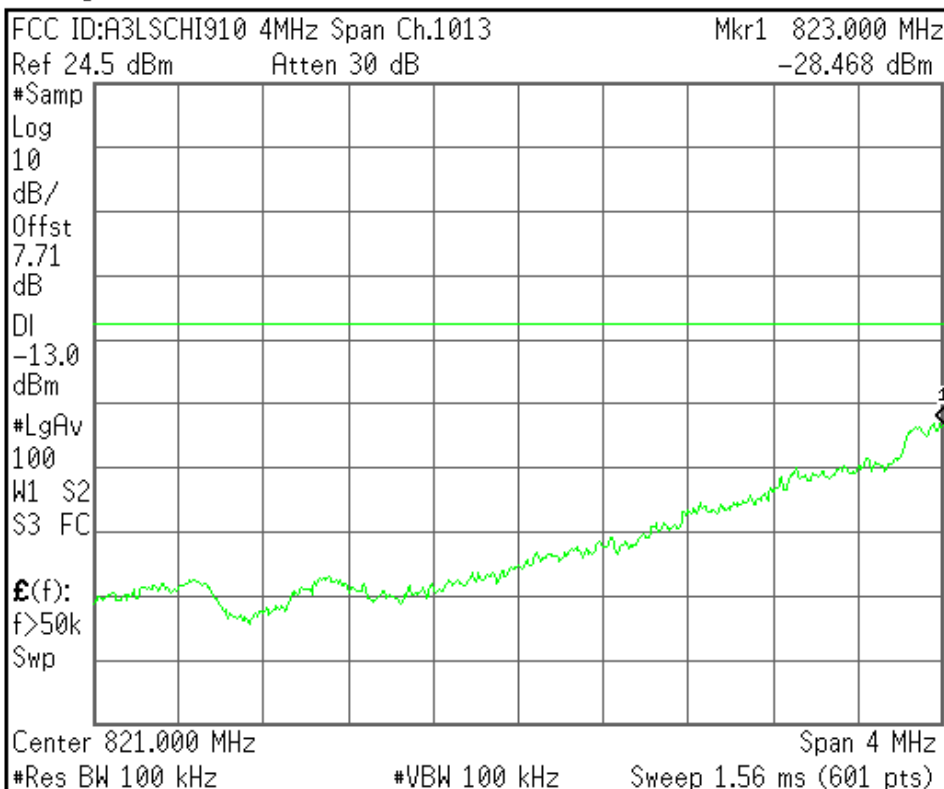
Signal Track
On Off

Invalid suffix

Agilent

R T

Freq/Channel



Center Freq
821.000000 MHz

Start Freq
819.000000 MHz

Stop Freq
823.000000 MHz

CF Step
400.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

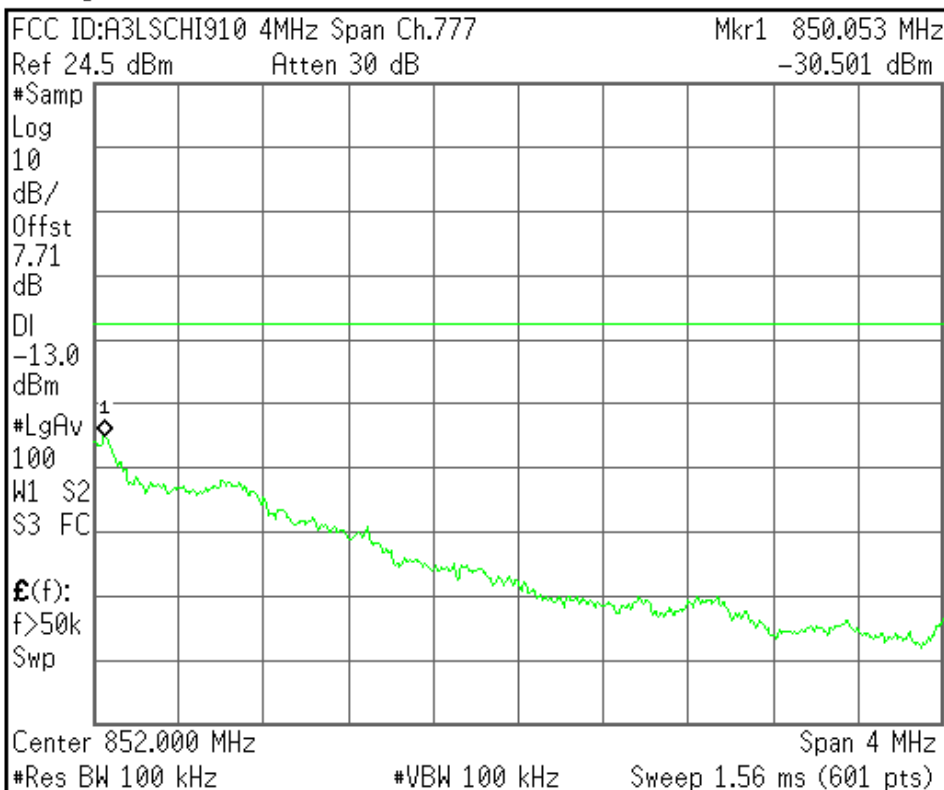
Signal Track
On Off

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

Agilent

R T

Freq/Channel



Center Freq
852.000000 MHz

Start Freq
850.000000 MHz

Stop Freq
854.000000 MHz

CF Step
400.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

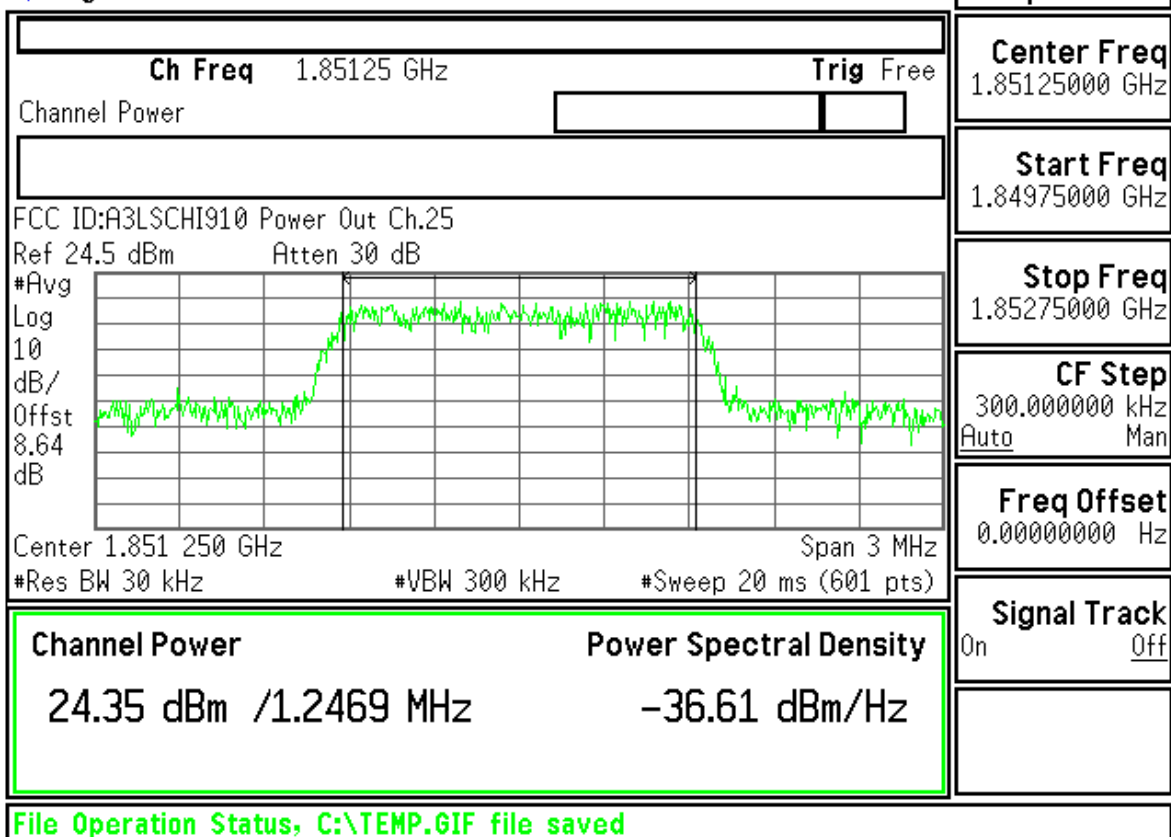
Signal Track
On Off

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



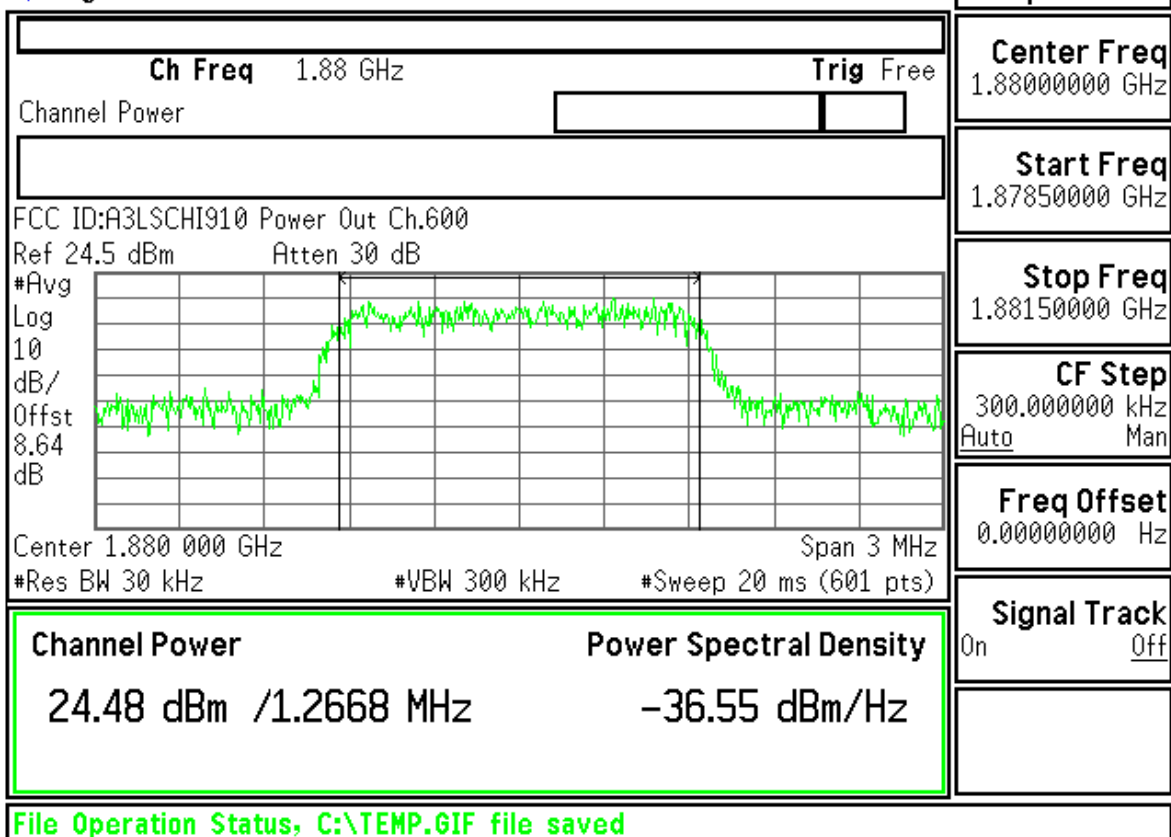
R T

Freq/Channel

**Center Freq**
1.85125000 GHz**Start Freq**
1.84975000 GHz**Stop Freq**
1.85275000 GHz**CF Step**
300.000000 kHz
Auto Man**Freq Offset**
0.00000000 Hz**Signal Track**
On Off

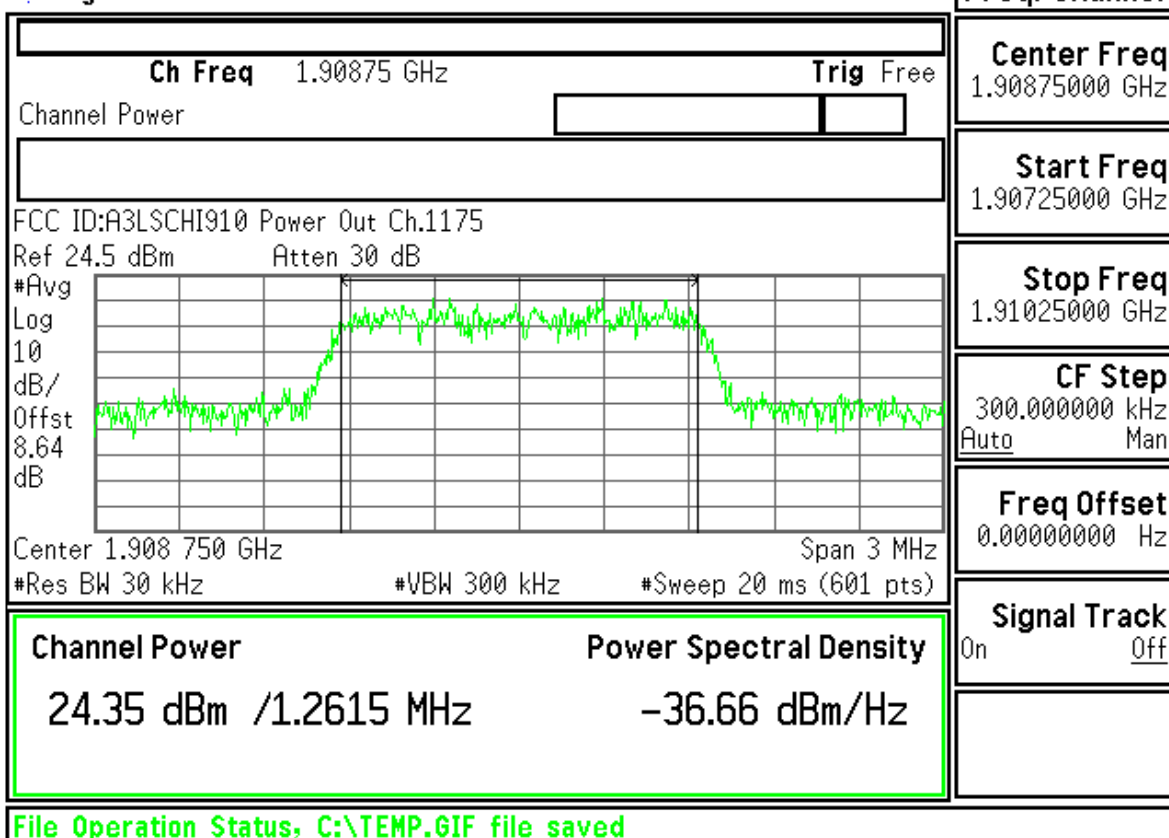
R T

Freq/Channel

**Center Freq**
1.88000000 GHz**Start Freq**
1.87850000 GHz**Stop Freq**
1.88150000 GHz**CF Step**
300.000000 kHz
Auto Man**Freq Offset**
0.00000000 Hz**Signal Track**
On Off

Agilent

R T



Freq/Channel

Center Freq
1.90875000 GHz

Start Freq
1.90725000 GHz

Stop Freq
1.91025000 GHz

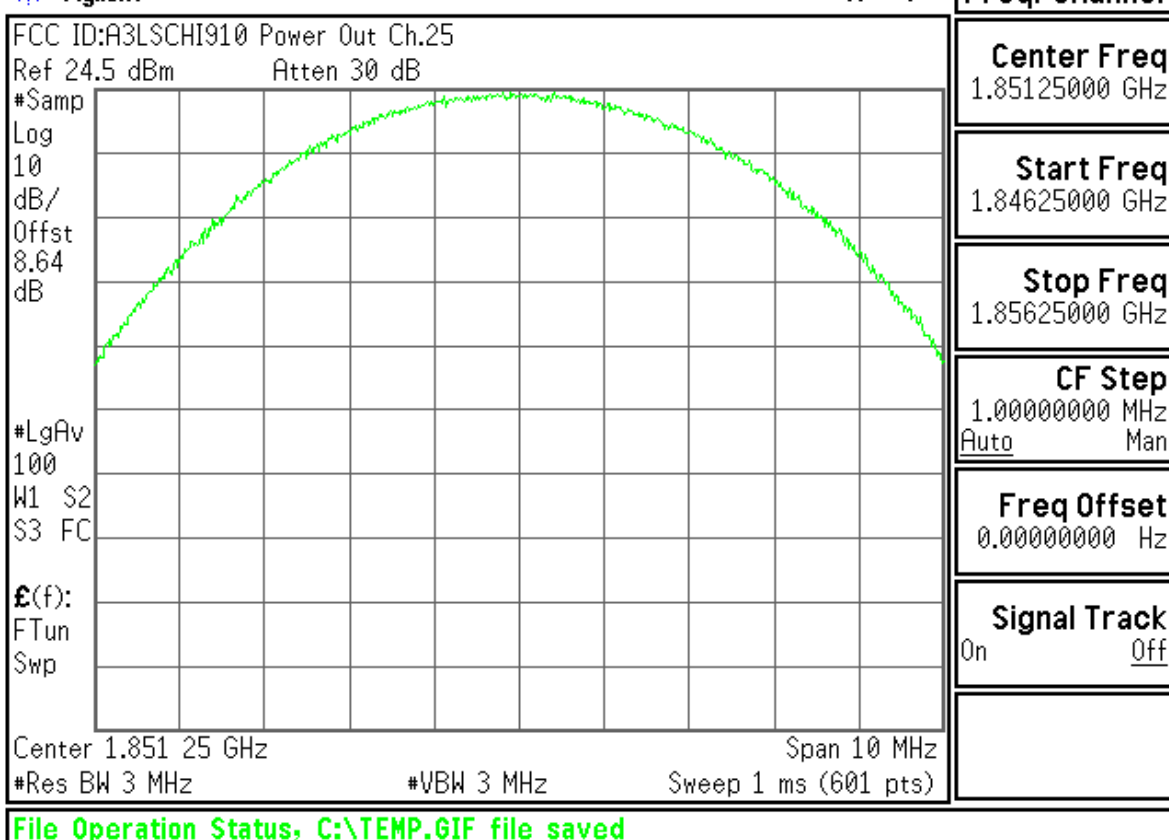
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent

R T



Center Freq
1.85125000 GHz

Start Freq
1.84625000 GHz

Stop Freq
1.85625000 GHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Power Out Ch.600

Ref 24.5 dBm

Atten 30 dB

#Samp

Log

10

dB/

Offst

8.64

dB

#LgAv

100

W1 S2

S3 FC

$E(f)$:

FTun

Swp

Center 1.880 00 GHz

Span 10 MHz

#Res BW 3 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Center Freq

1.88000000 GHz

Start Freq

1.87500000 GHz

Stop Freq

1.88500000 GHz

CF Step

1.00000000 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

FDD ID:A3LSCHI910 Power Out Ch.1175

Ref 24.5 dBm

Atten 30 dB

#Samp

Log

10

dB/

Offst

8.64

dB

#LgAv

100

S1 W2

S3 FC

$E(f)$:

FTun

Swp

Center 1.908 75 GHz

Span 10 MHz

#Res BW 3 MHz

#VBW 3 MHz

Sweep 1 ms (601 pts)

Center Freq

1.90875000 GHz

Start Freq

1.90375000 GHz

Stop Freq

1.91375000 GHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

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Agilent

R T

Freq/Channel

Ch Freq 1.85125 GHz Trig Free
Occupied Bandwidth

Center Freq
1.85125000 GHz

Start Freq
1.84975000 GHz

Stop Freq
1.85275000 GHz

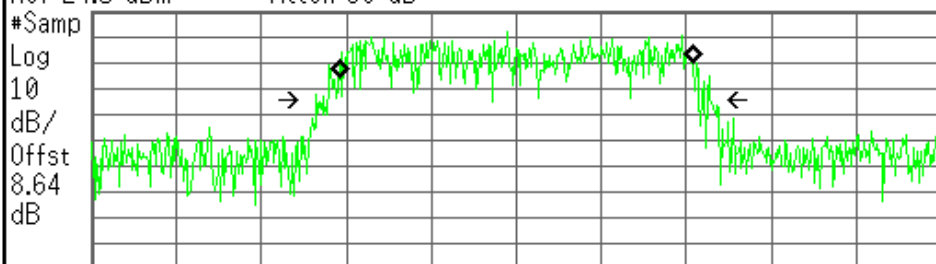
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHI910 0BW Ch.25

Ref 24.5 dBm Atten 30 dB



Center 1.851 250 GHz Span 3 MHz
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Occupied Bandwidth 1.2469 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 456.590 Hz
x dB Bandwidth 1.392 MHz*

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

Agilent

R T

Freq/Channel

Ch Freq 1.88 GHz Trig Free
Occupied Bandwidth

Center Freq
1.88000000 GHz

Start Freq
1.87850000 GHz

Stop Freq
1.88150000 GHz

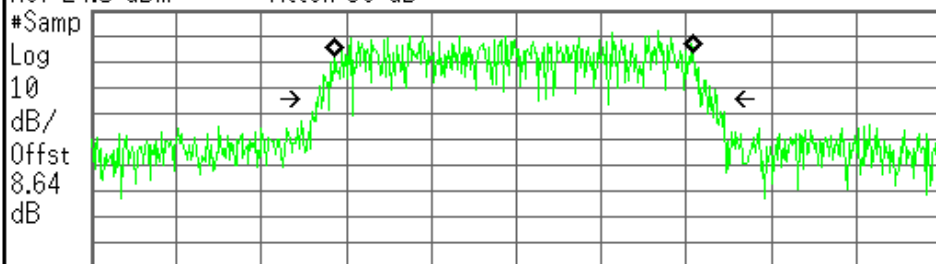
CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHI910 0BW Ch.600

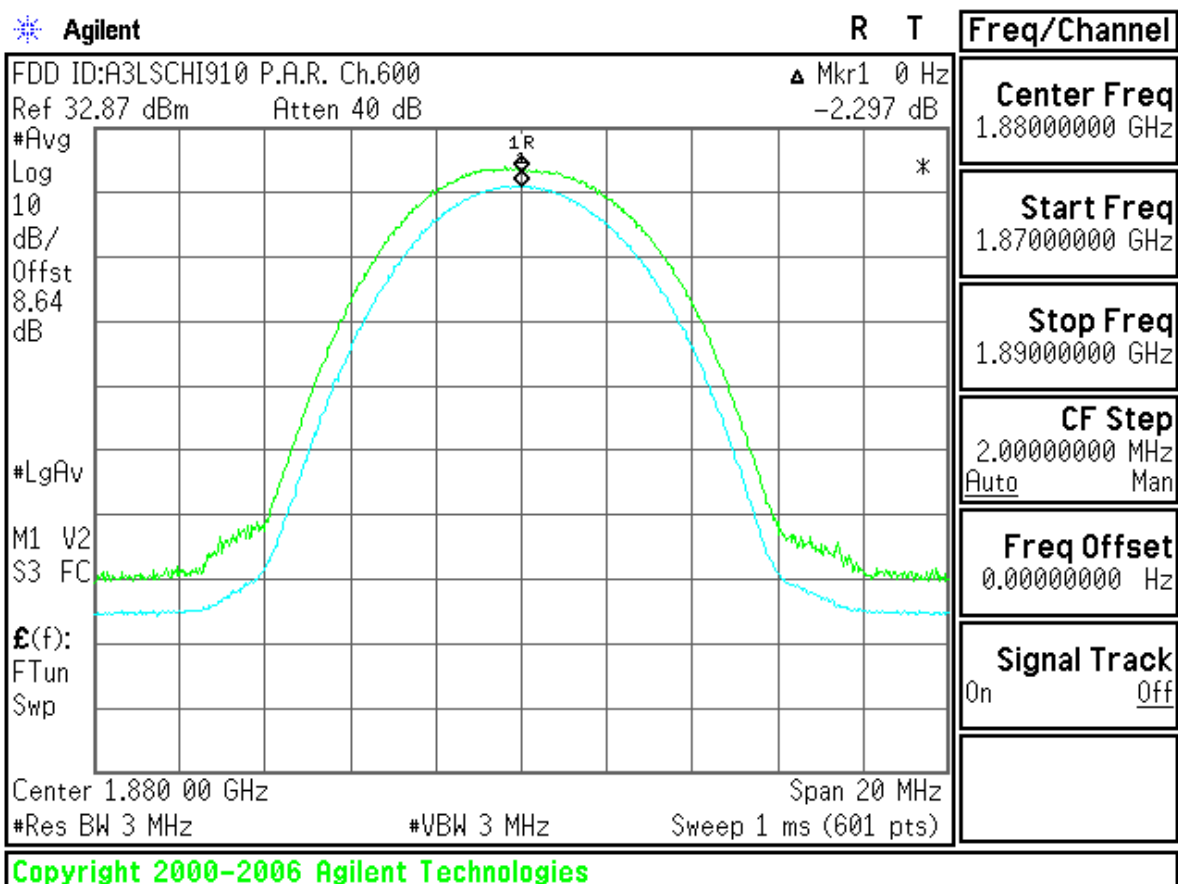
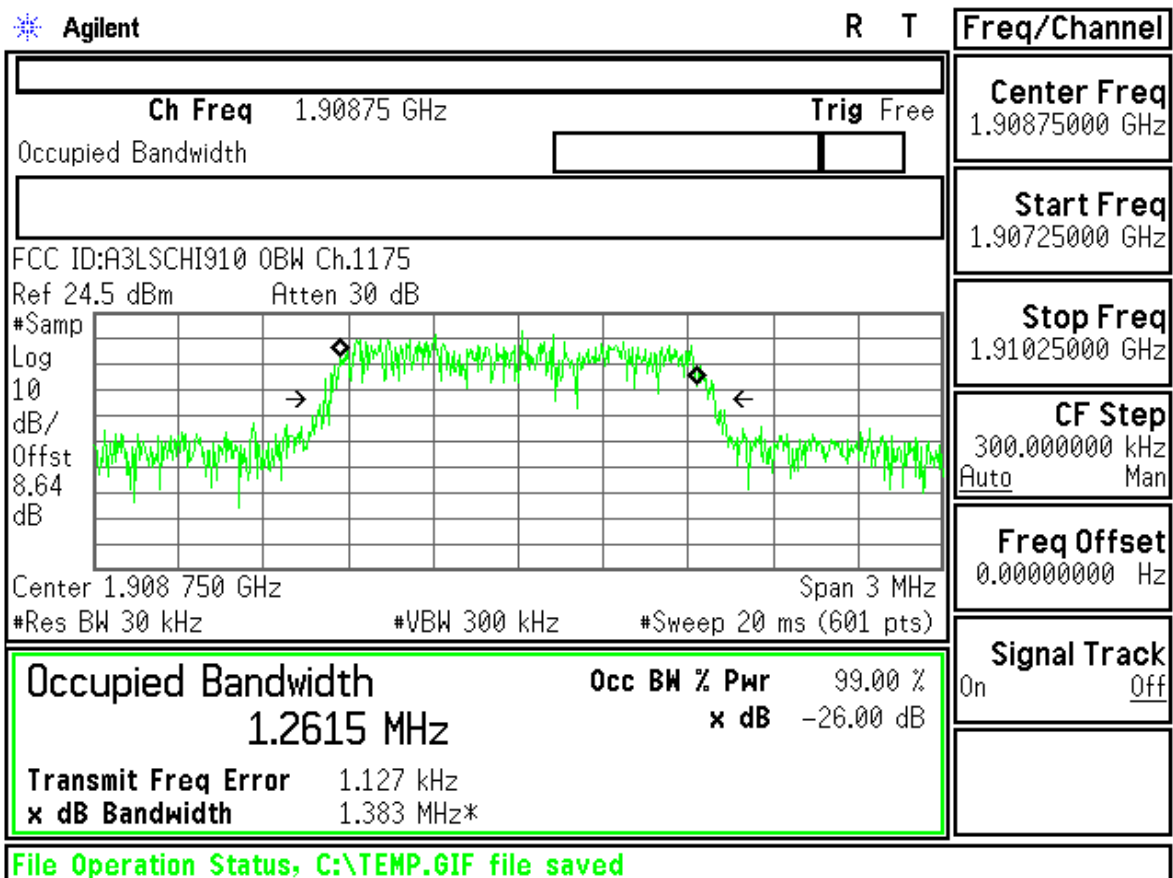
Ref 24.5 dBm Atten 30 dB



Center 1.880 000 GHz Span 3 MHz
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Occupied Bandwidth 1.2668 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error -7.952 kHz
x dB Bandwidth 1.404 MHz*

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



Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.25

Ref 24.5 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp

AC Coupled: unspecified below 20 MHz

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

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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

Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.25

Mkr1 1.846 GHz

Ref 24.5 dBm

Atten 30 dB

-16.35 dBm

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center Freq

928.125000 MHz

Start Freq

10.0000000 MHz

Stop Freq

1.84625000 GHz

CF Step

183.625000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 928 MHz

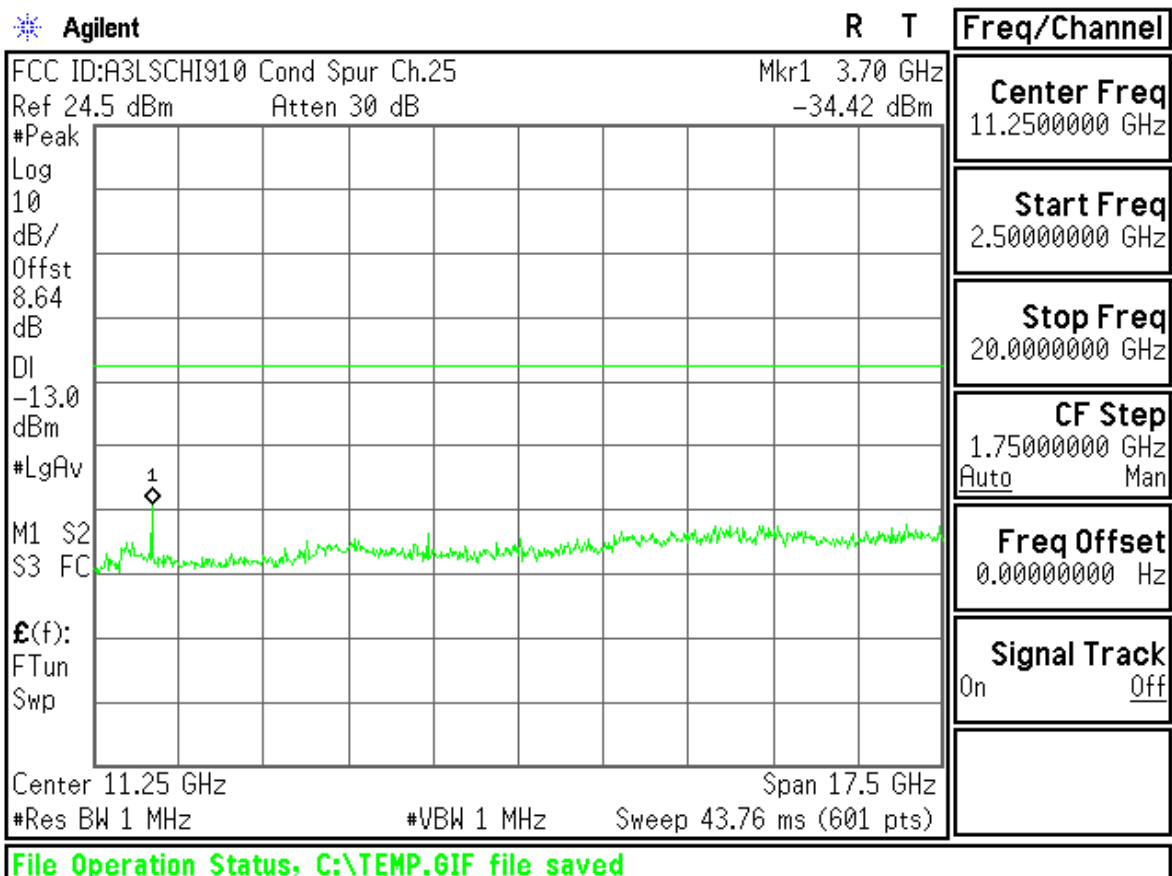
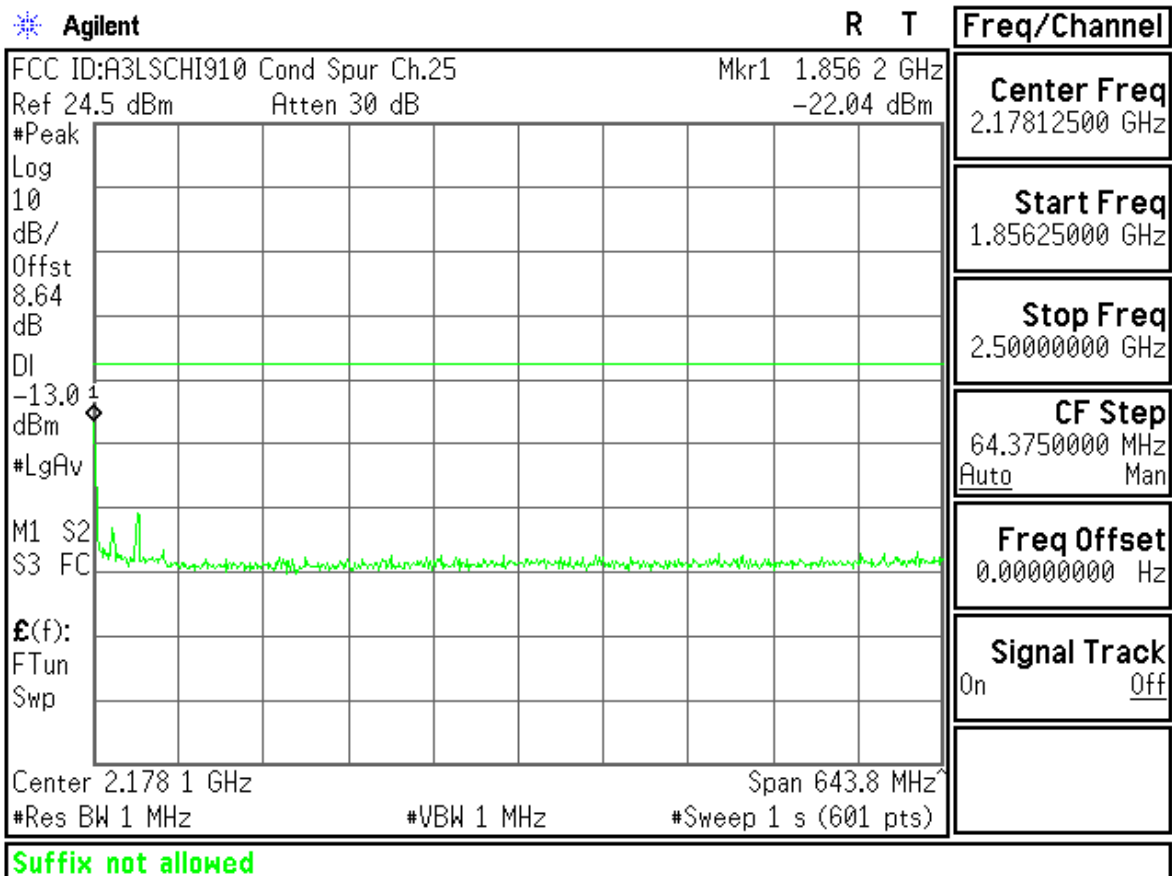
Span 1.836 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 3.08 ms (601 pts)

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



Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.600

Ref 24.5 dBm Atten 30 dB

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center Freq

1.25500000 GHz

Start Freq

10.00000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.0000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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

Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.600

Mkr1 1.875 GHz

Ref 24.5 dBm Atten 30 dB

-16.52 dBm

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center Freq

942.500000 MHz

Start Freq

10.00000000 MHz

Stop Freq

1.87500000 GHz

CF Step

186.5000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 942 MHz

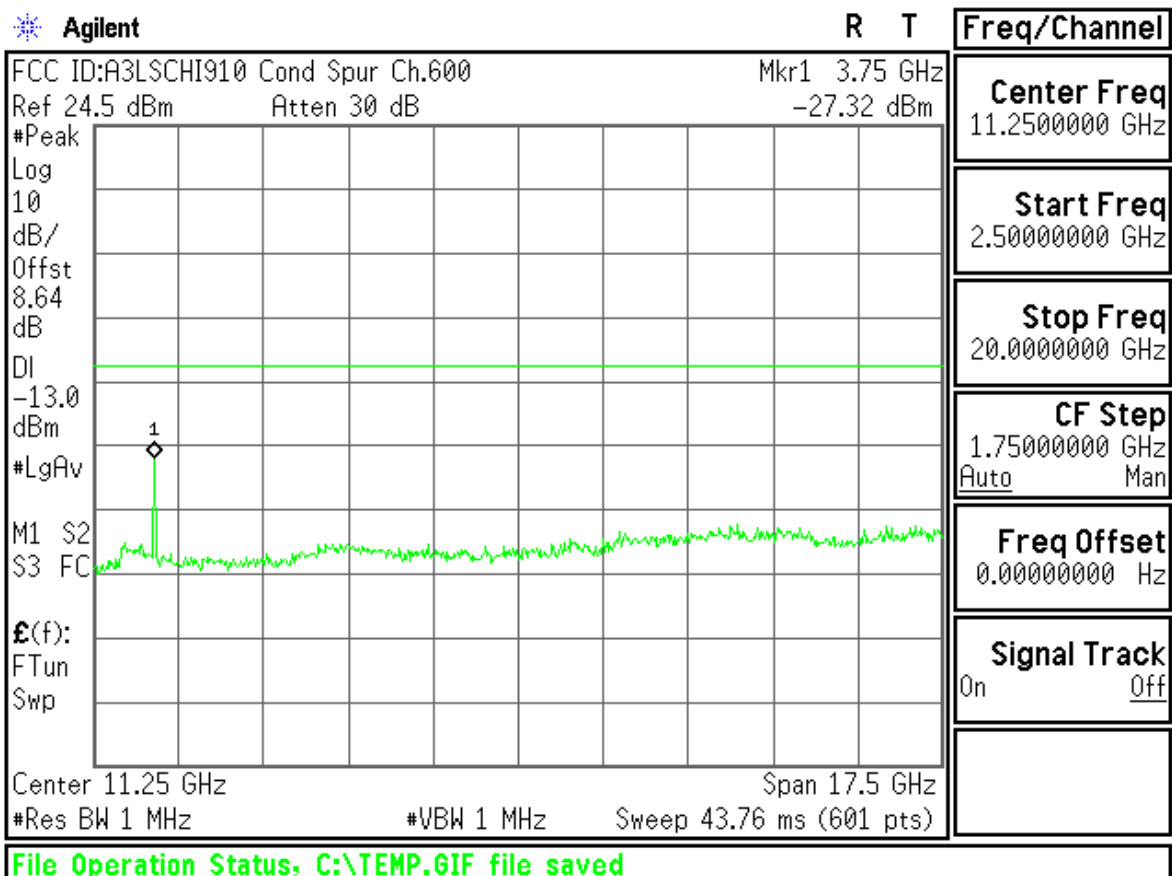
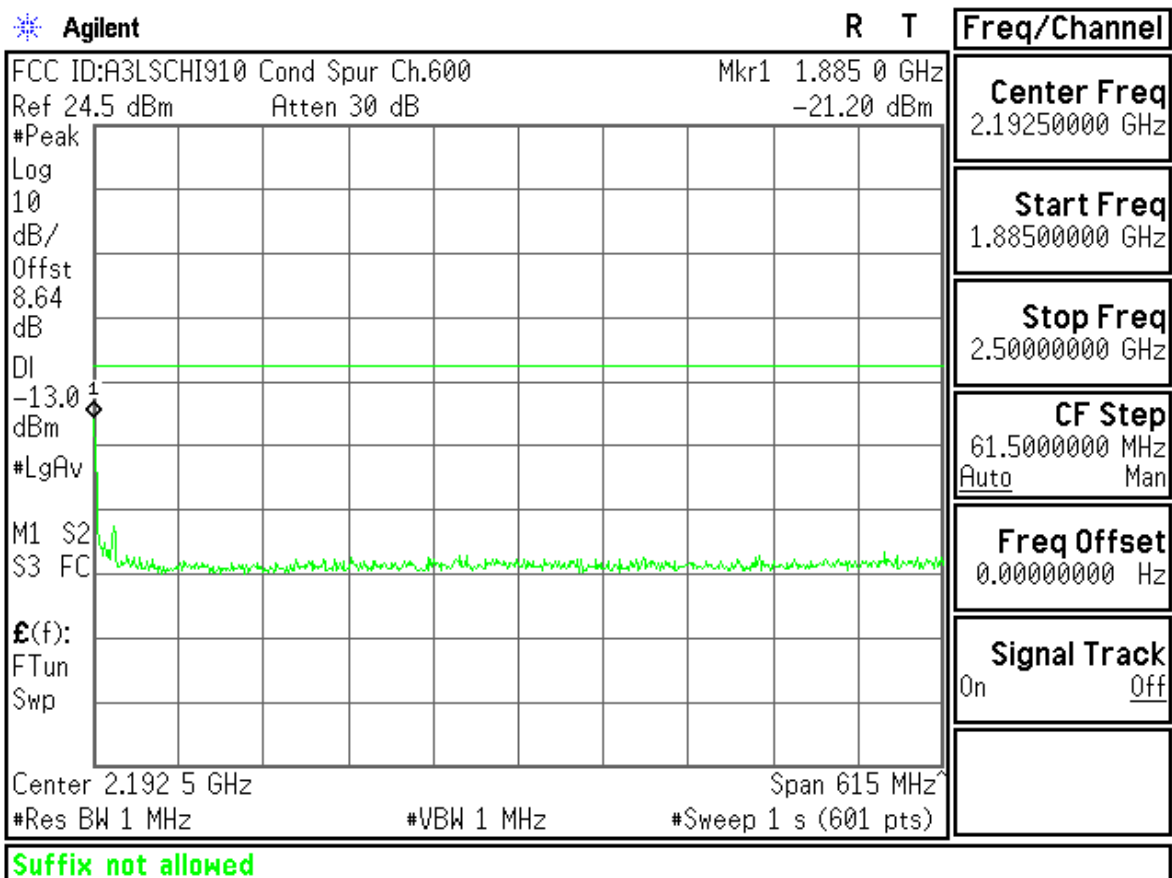
Span 1.865 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 3.12 ms (601 pts)

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



Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.1175

Ref 24.5 dBm Atten 30 dB

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

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

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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

Agilent

R T

Freq/Channel

FCC ID:A3LSCHI910 Cond Spur Ch.1175

Mkr1 1.904 GHz

Ref 24.5 dBm Atten 30 dB

-16.08 dBm

#Peak

Log

10

dB/

Offst

8.64

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

AC Coupled: unspecified below 20 MHz

Center Freq

956.875000 MHz

Start Freq

10.0000000 MHz

Stop Freq

1.90375000 GHz

CF Step

189.375000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 957 MHz

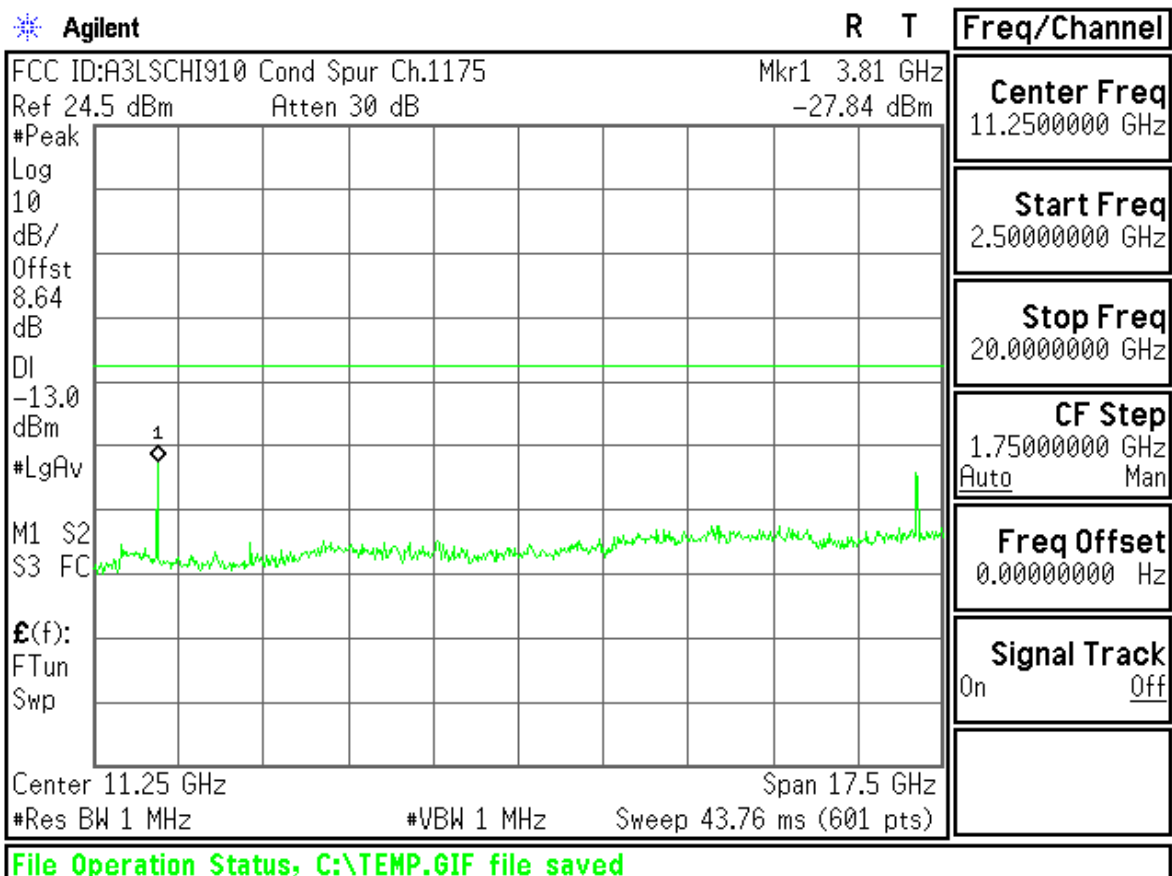
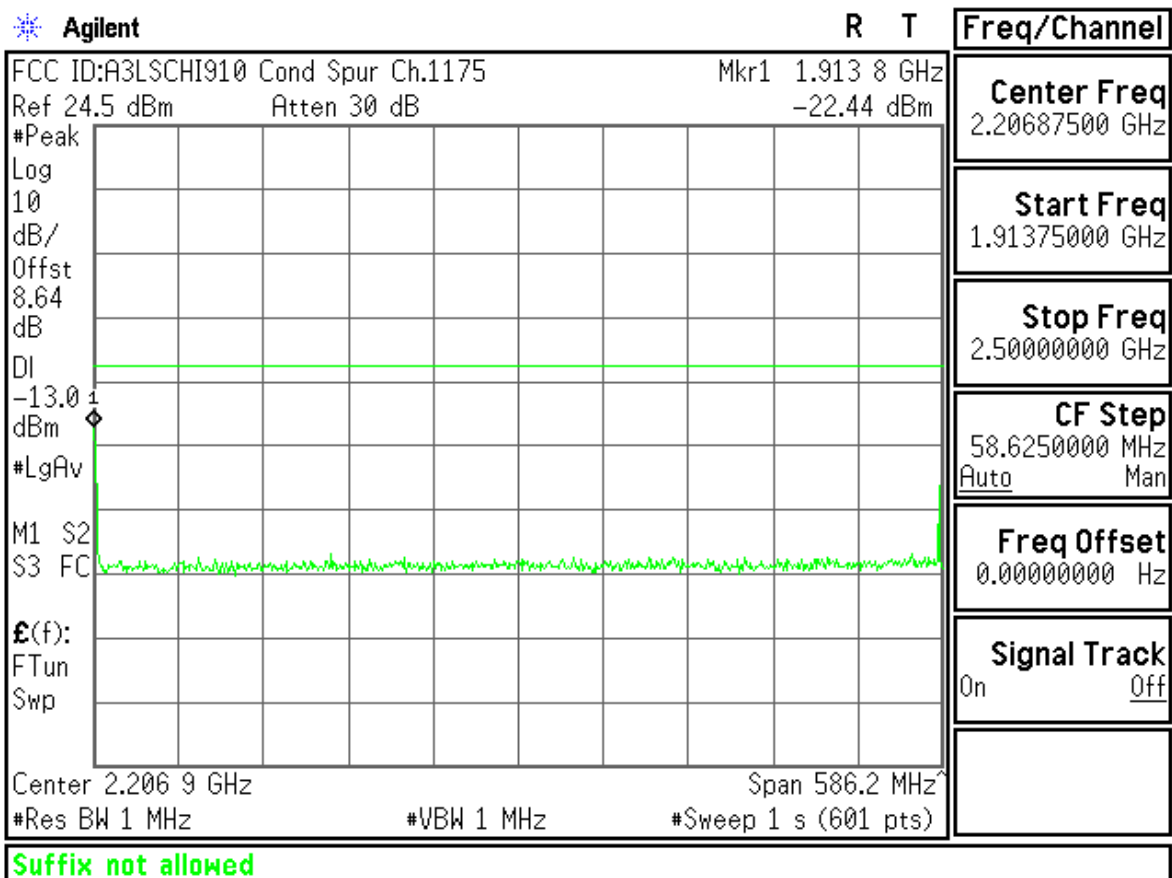
Span 1.894 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 3.16 ms (601 pts)

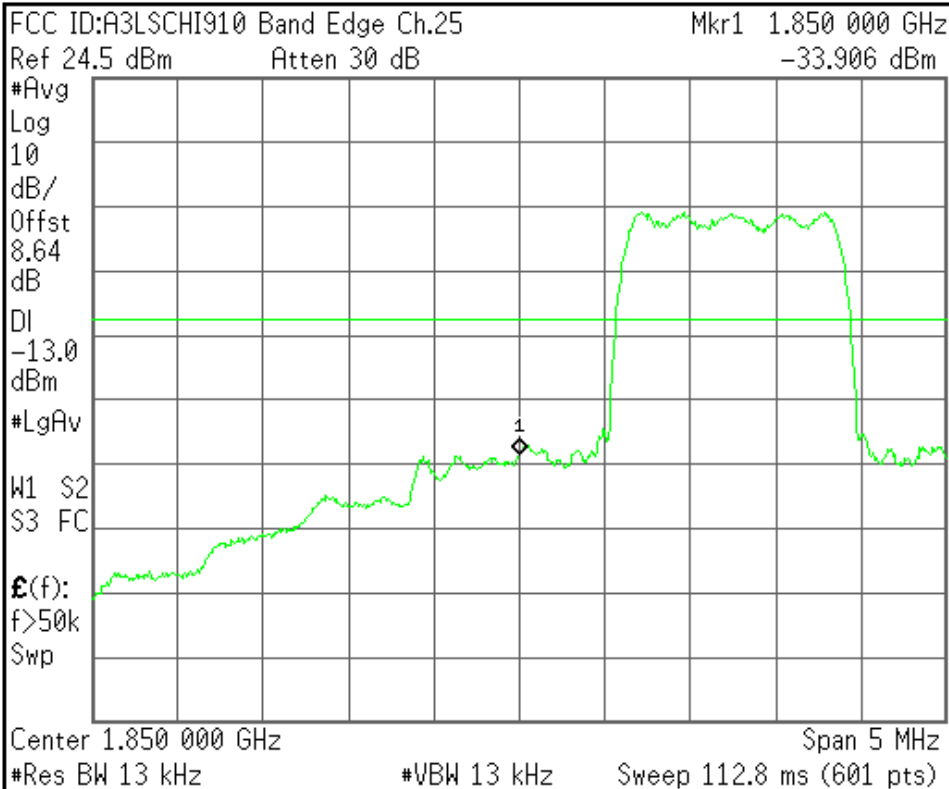
File Operation Status, C:\TEMP.GIF file saved



Agilent

R T

Freq/Channel



Center Freq
1.85000000 GHz

Start Freq
1.84750000 GHz

Stop Freq
1.85250000 GHz

CF Step
500.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

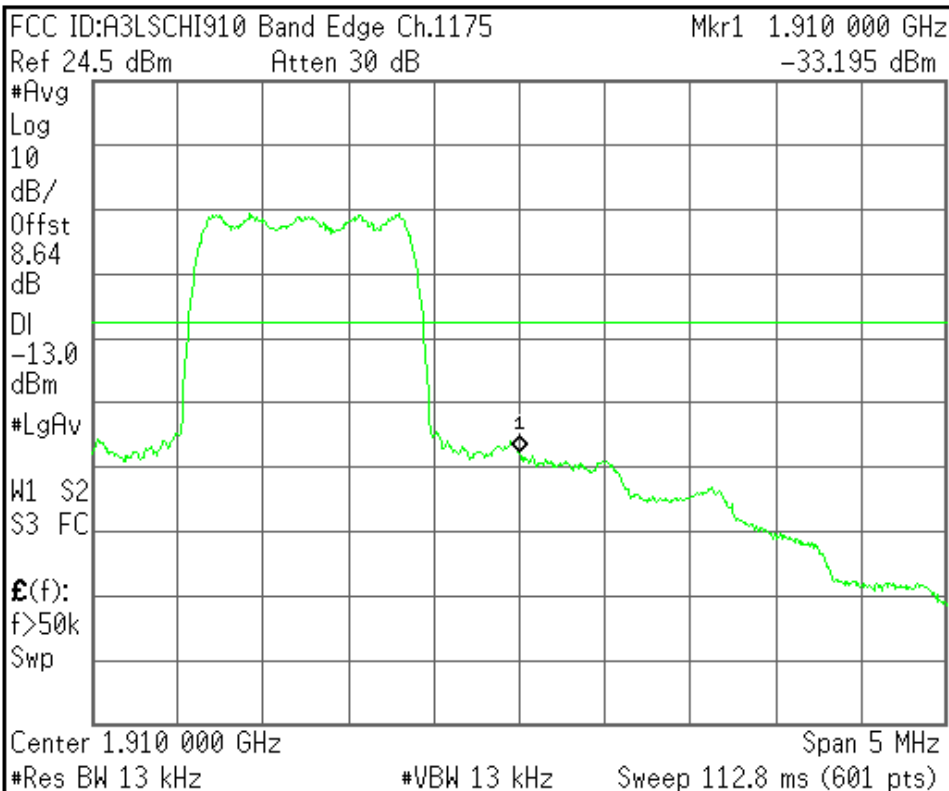
Signal Track
On Off

Invalid suffix

Agilent

R T

Freq/Channel



Center Freq
1.91000000 GHz

Start Freq
1.90750000 GHz

Stop Freq
1.91250000 GHz

CF Step
500.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Invalid suffix

