



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

FCC CFR47 PART 22 SUBPART CERTIFICATION REPORT

Model Tested:	SCH-B199
FCC ID (Requested):	A3LSCHB199
Report No:	FG-339-R1
Job No:	FG-339
Date issued:	December 2, 2009

- Abstract -

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

Prepared By

KJ KWON - Test Engineer

Authorized 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: A3LSCHB199

- Model: SCH-B199
- Quantity: Quantity production is planned
- Emission Designators: 1M29F9W(CDMA)
 - Tx Freq. Range: 824.70-848.31MHz (CDMA)
 - Rx Freq. Range: 869.70-893.31MHz (CDMA)
 - Max. Power Rating: 0.090 W ERP CDMA (19.56 dBm)
 - FCC Classification(s): Licensed Non-Broadcast Transmitter Held to Ear(TNE)
 - Equipment (EUT) Type: Cellular CDMA Phone
 - Modulation(s): CDMA
 - Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
 - FCC Rule Part(s): §2(H), §.
 - Dates of Test: November 26-27, 2009
 - Place of Test: SAMSUNG Lab,
 - Test Report S/N: FG-339-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.



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	2010-10-20
	E4440A(3Hz~26.5GHz)	MY46187454	2010-03-06
	E4440A(3Hz~26.5GHz)	MY41000236	2010-04-14
Network Analyzer	8753E	JP38160590	2010-06-19
Pre-Amplifier	8449B	3008A00691	2009-12-15
Communication test set	8960	MY47510060	2010-03-06
	8960	GB42230535	2009-12-18
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	2010-03-06
Divider	11636B	51946	Not Required
	11636B	56913	Not Required
	11636B	56918	Not Required
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”.

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
Cellular	1013	RC1	24.62	24.62
		RC3	24.62	24.63
	384	RC1	24.60	24.64
		RC3	24.66	24.66
	777	RC1	24.64	24.63
		RC3	24.63	24.63

Table 5-3
Maximum Power Output Table for SCH-B199

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

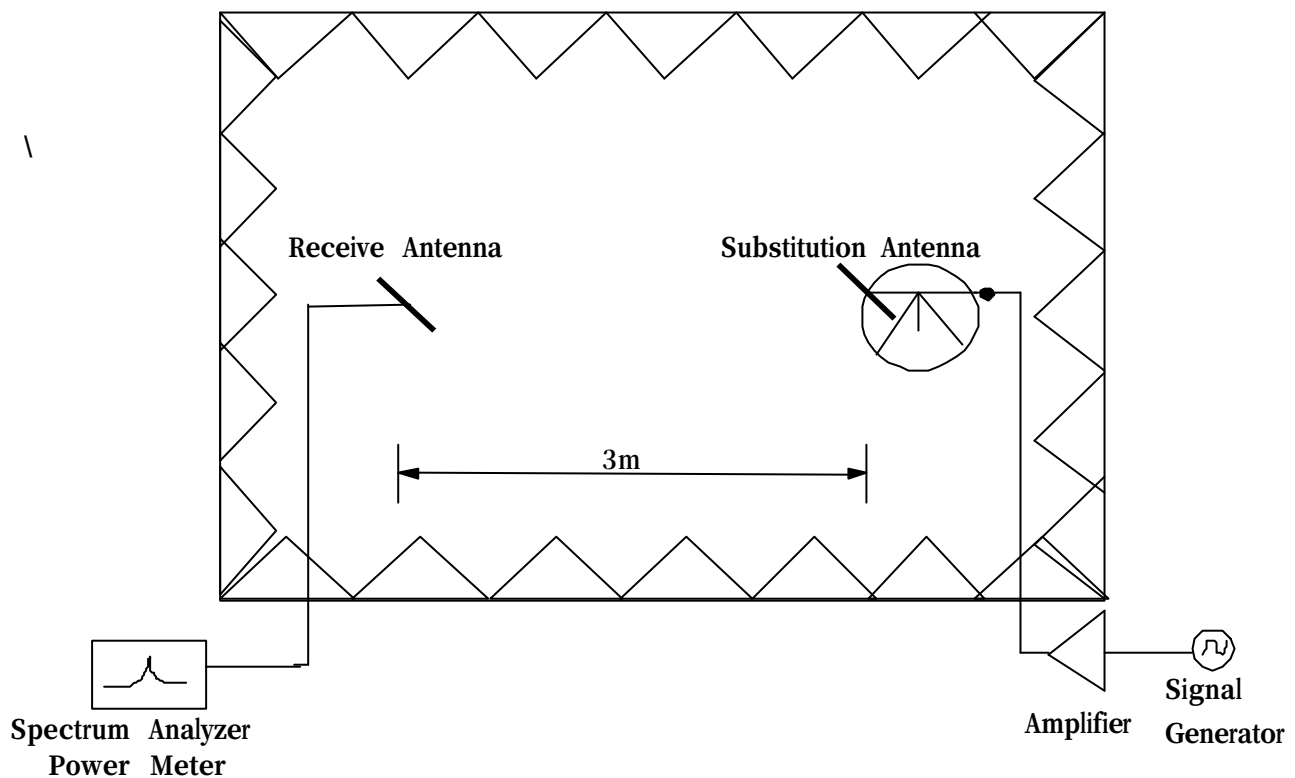


Figure 3. Diagram of ERP/EIRP test Set-up

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

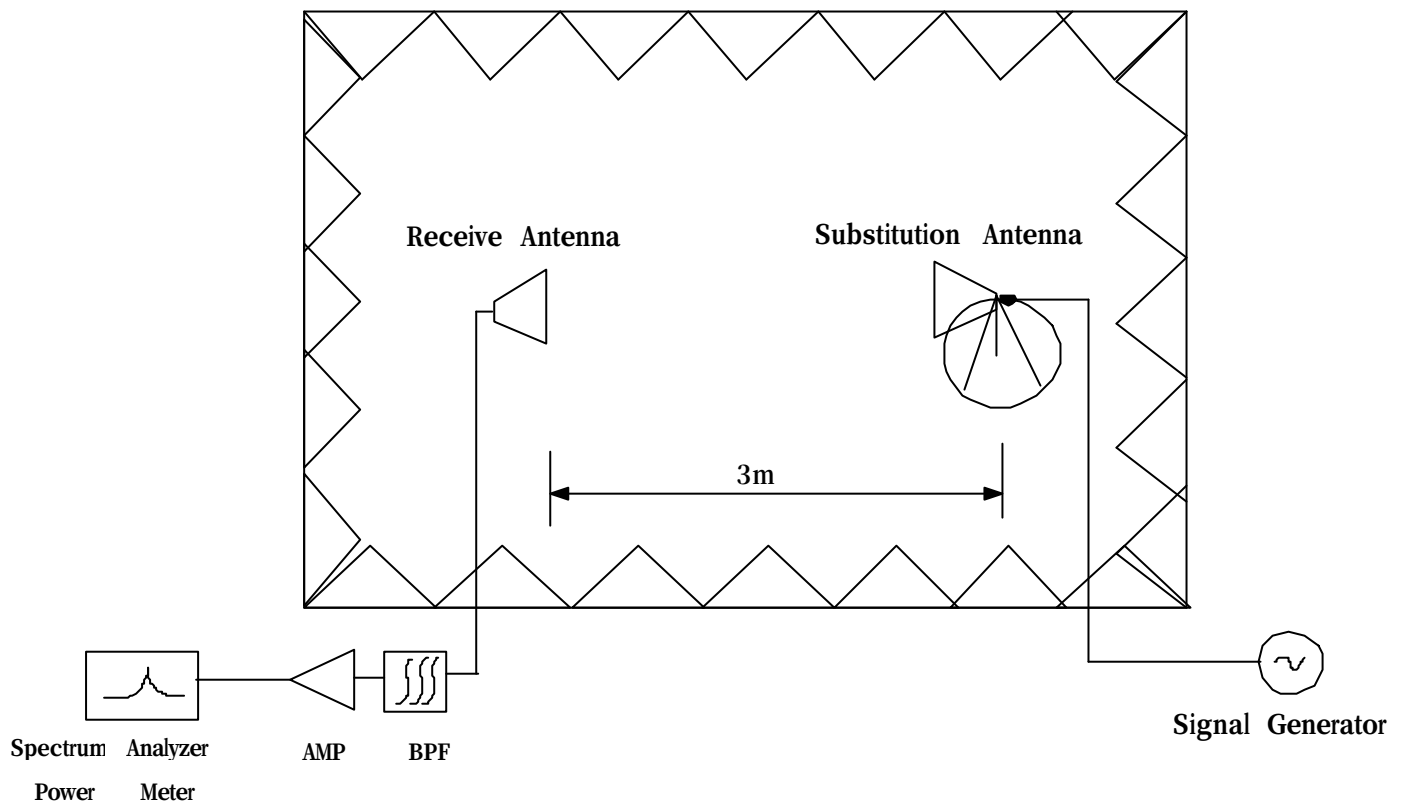


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

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 $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$.

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.

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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 1. 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 (± 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.

– End of page –

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	19.00	H	-17.48	-0.67	-16.81
		V	-17.68	-0.67	-17.01
836.52	17.00	H	-20.89	-0.73	-20.16
		V	-20.42	-0.73	-19.69
848.31	20.00	H	-20.63	-0.79	-19.84
		V	-19.31	-0.79	-18.52

■Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-17.27	H	287/90	18.54	0.071	Standard
836.52	-19.96	H	289/55	17.20	0.052	Standard
848.31	-20.28	H	277/90	19.56	0.090	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 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 : 19.56 dBm = 0.090 W

Modulation Signal : CDMA

Limit : $43 + 10\log_{10}(P) = 32.56$ dBc

■Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-55.17	H	62.63
	3	2474.10	-66.11	H	69.11
	4	3298.80	-66.84	H	66.17
	5	4123.50	-	-	-
	6	4948.20	-	-	-
	7	5772.90	-	-	-
384	2	1673.04	-57.39	H	64.35
	3	2509.56	-66.68	V	69.74
	4	3346.08	-66.52	H	65.76
	5	4182.68	-	-	-
	6	5019.12	-	-	-
	7	5855.64	-	-	-
777	2	1696.62	-62.87	H	69.62
	3	2544.93	-66.81	H	69.02
	4	3393.24	-67.52	V	66.76
	5	4241.55	-	-	-
	6	5089.86	-	-	-
	7	5938.17	-	-	-

Radiated Spurious Emission measurements at 3 meters by Substitution Method

6.3 CDMA Radiated Spurious & Harmonic Conversion Table

Date : November 27, 2009

Test Engineer : KJ KWON

- ① Tx Cable loss
- ② Tx Horn Ant Gain
- ③ Tx Level to radiate -13dBm
- ④ ESI Level received from Tx with -13dBm
- ⑤ Tested Level from EUT
- ⑥ = ERP+2.15 - (-13 +⑤ - ④)

CH	Har	Frequency (MHz)	① Tx C/L dB	②Tx Horn Gain dBi	③Tx Level dBm	④ ESI Level : H dBm	④ ESI Level : V dBm	⑤Test ed EUT Level : H dBm	⑤Test ed EUT Level : V dBm	⑥ Result EUT : H (dBc)	⑥ Result EUT : V (dBc)
1013	2	1649.40	-9.02	9.50	-13.50	-27.24	-27.10	-55.17	-58.36	62.63	65.96
	3	2474.10	-11.41	10.70	-12.30	-31.70	-31.45	-66.11	-67.89	69.11	71.14
	4	3298.80	-13.59	12.30	-11.70	-34.96	-35.43	-66.84	-66.90	66.58	66.17
	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	-57.39	-59.17	64.35	65.24
	3	2509.56	-11.43	10.70	-12.30	-31.69	-31.64	-66.99	-66.68	70.00	69.74
	4	3346.08	-13.78	12.30	-11.50	-35.46	-35.60	-66.52	-66.85	65.76	65.95
	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	-62.87	-63.55	69.62	70.50
	3	2544.93	-11.41	10.70	-12.30	-31.58	-32.94	-66.81	-67.26	69.93	69.02
	4	3393.24	-13.82	12.30	-11.50	-35.17	-35.46	-67.53	-67.52	67.06	66.76
	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	-	-	-	-

6.4 Frequency Stability

6.4.1 CDMA Frequency Stability Table

Operating Frequency : 836,520,000 Hz

Channel : 384

Reference Voltage : 3.7VDC

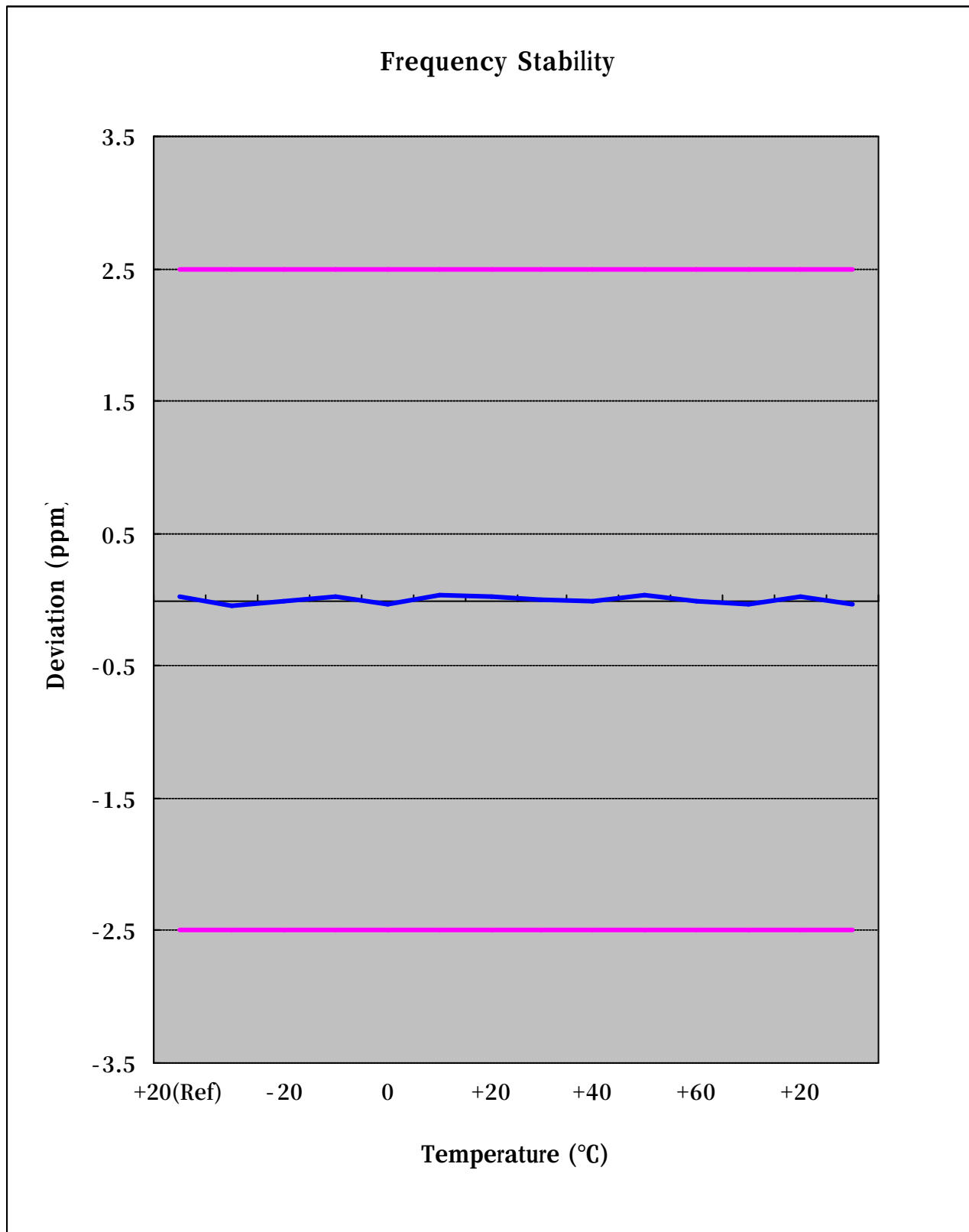
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	19.60	836,520,020	0.000002	0.023
100%		-30	-18.50	836,519,982	-0.000002	-0.022
100%		-20	-27.40	836,519,973	-0.000003	-0.033
100%		-10	-35.10	836,519,965	-0.000004	-0.042
100%		0	22.10	836,520,022	0.000003	0.026
100%		+10	14.30	836,520,014	0.000002	0.017
100%		+20	19.60	836,520,020	0.000002	0.023
100%		+30	1.10	836,520,001	0.000000	0.001
100%		+40	0.80	836,520,001	0.000000	0.001
100%		+50	14.00	836,520,014	0.000002	0.017
100%		+60	31.00	836,520,031	0.000004	0.037
85%	3.25	+20	-36.30	836,519,964	-0.000004	-0.043
115%	4.26	+20	2.30	836,520,002	0.000000	0.003
Batt. Endpoint	3.25	+20	-36.30	836,519,964	-0.000004	-0.043

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

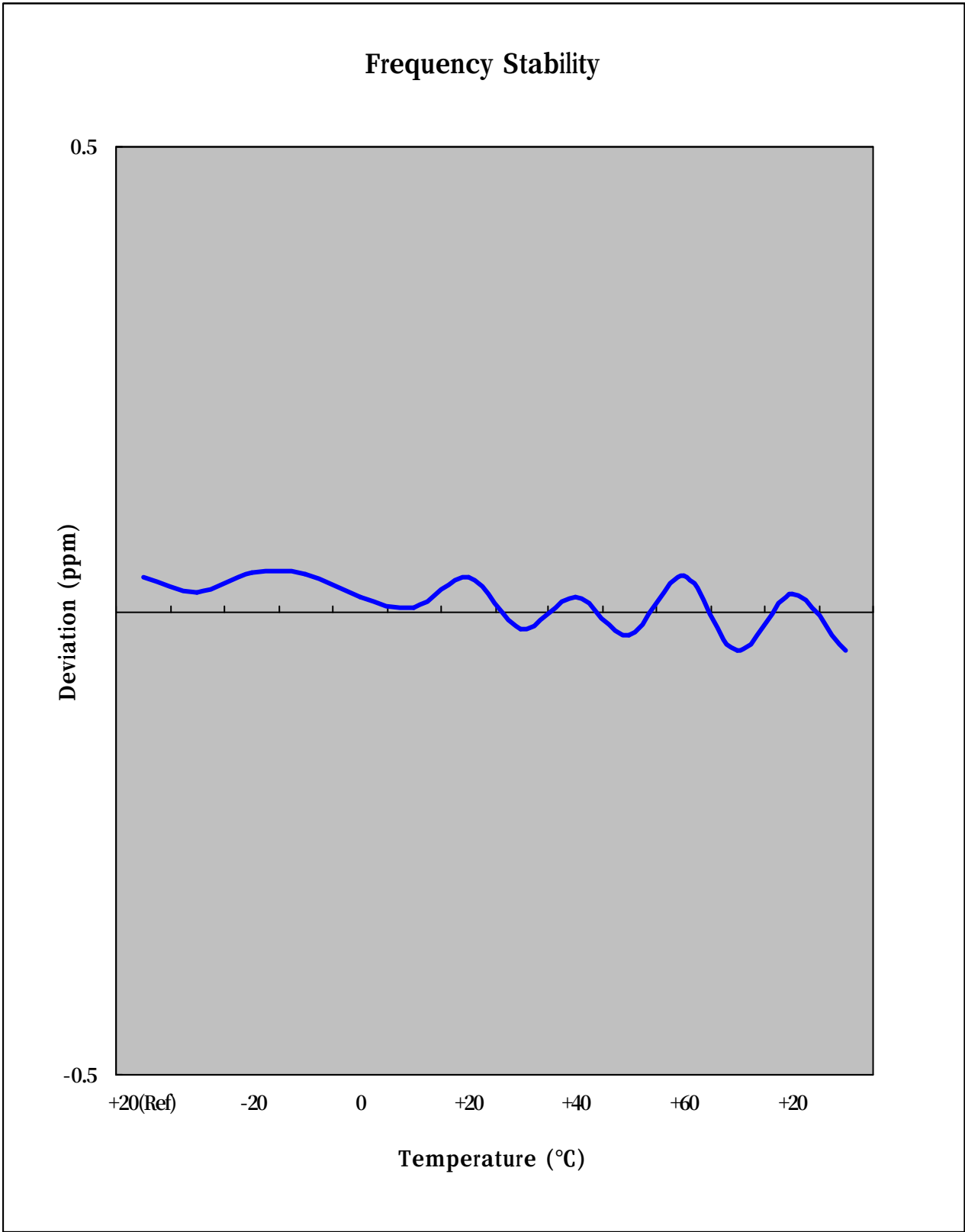
The EUT is tested down to the battery end point

6.4.2 CDMA Frequency Stability Graph



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Zoom In



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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)

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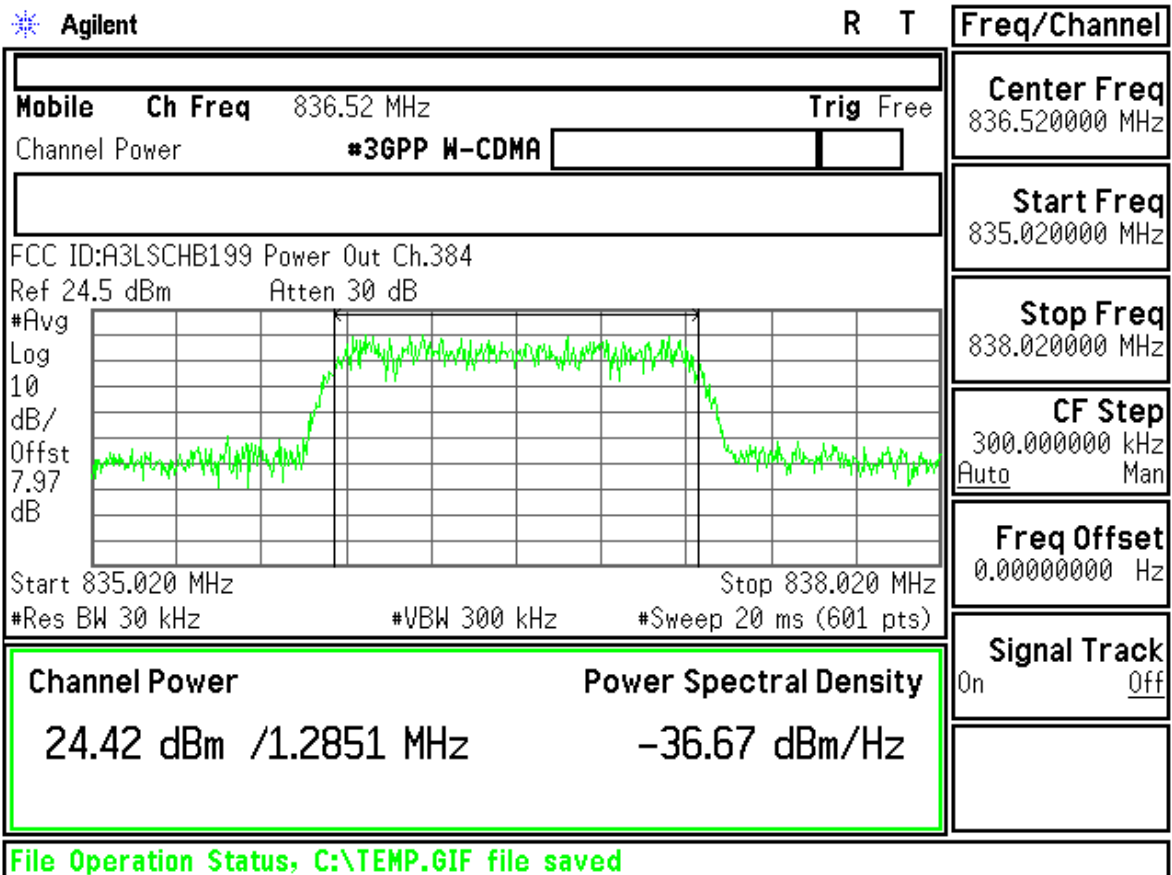
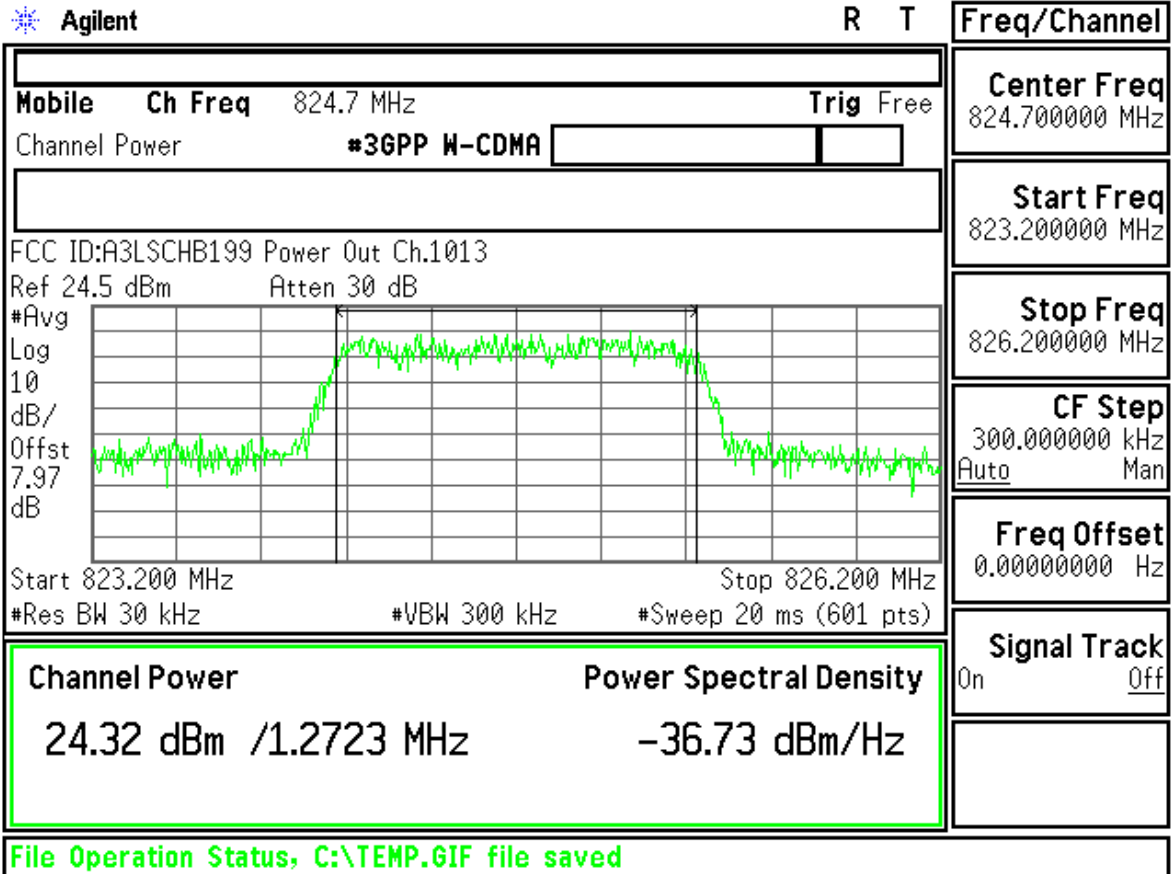
8. CONCLUSION

The data collected shows that the SAMSUNG Cellular CDMA Phone.
FCC ID : A3LSCHB199 complies with all the requirements of Parts 2, 22 of the FCC Rules.

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9. TEST PLOTS

A3LSCHB199CDMA



Agilent

R T

Freq/Channel

Mobile Ch Freq 848.31 MHz Trig Free
 Channel Power #3GPP W-CDMA

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

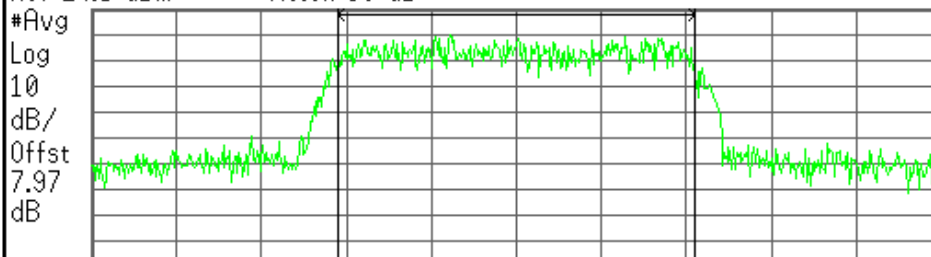
Stop Freq
849.810000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHB199 Power Out Ch.777
 Ref 24.5 dBm Atten 30 dB



Start 846.810 MHz Stop 849.810 MHz
 #Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

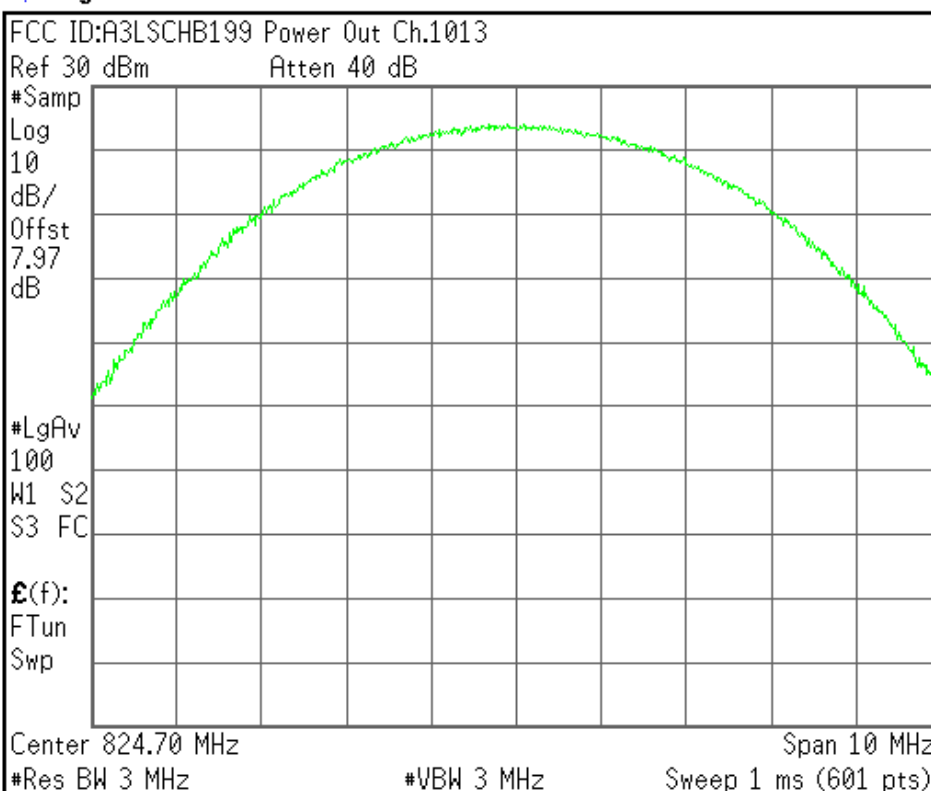
Channel Power Power Spectral Density
 24.54 dBm /1.2631 MHz -36.48 dBm/Hz

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

Agilent

R T

Freq/Channel



Center Freq
824.700000 MHz

Start Freq
819.700000 MHz

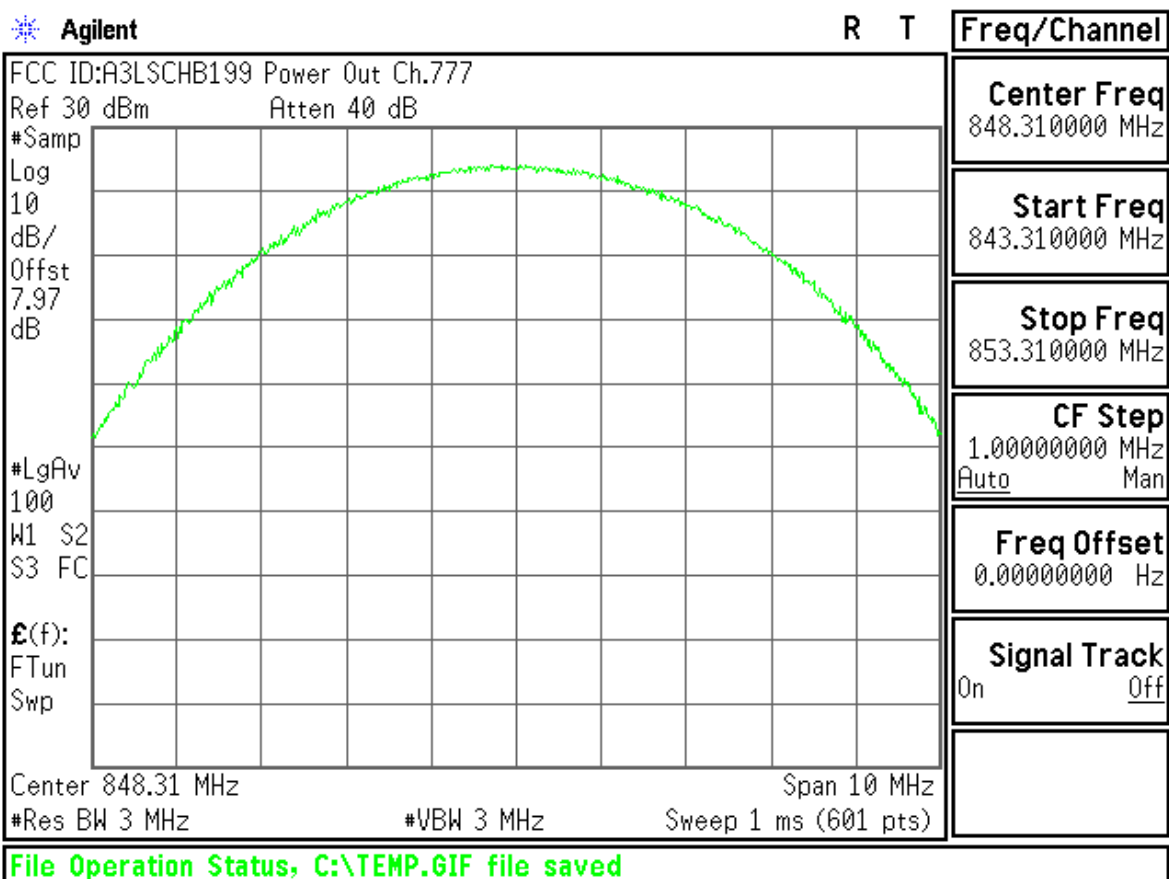
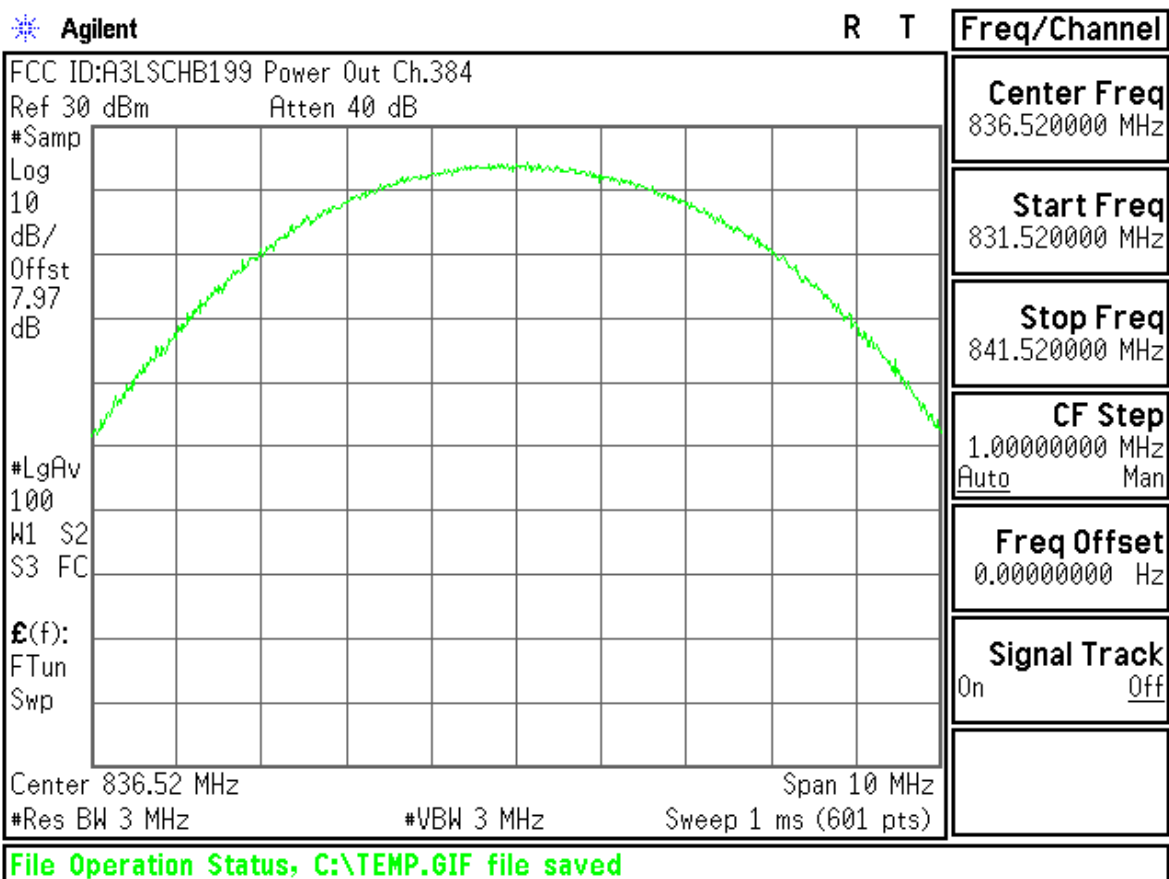
Stop Freq
829.700000 MHz

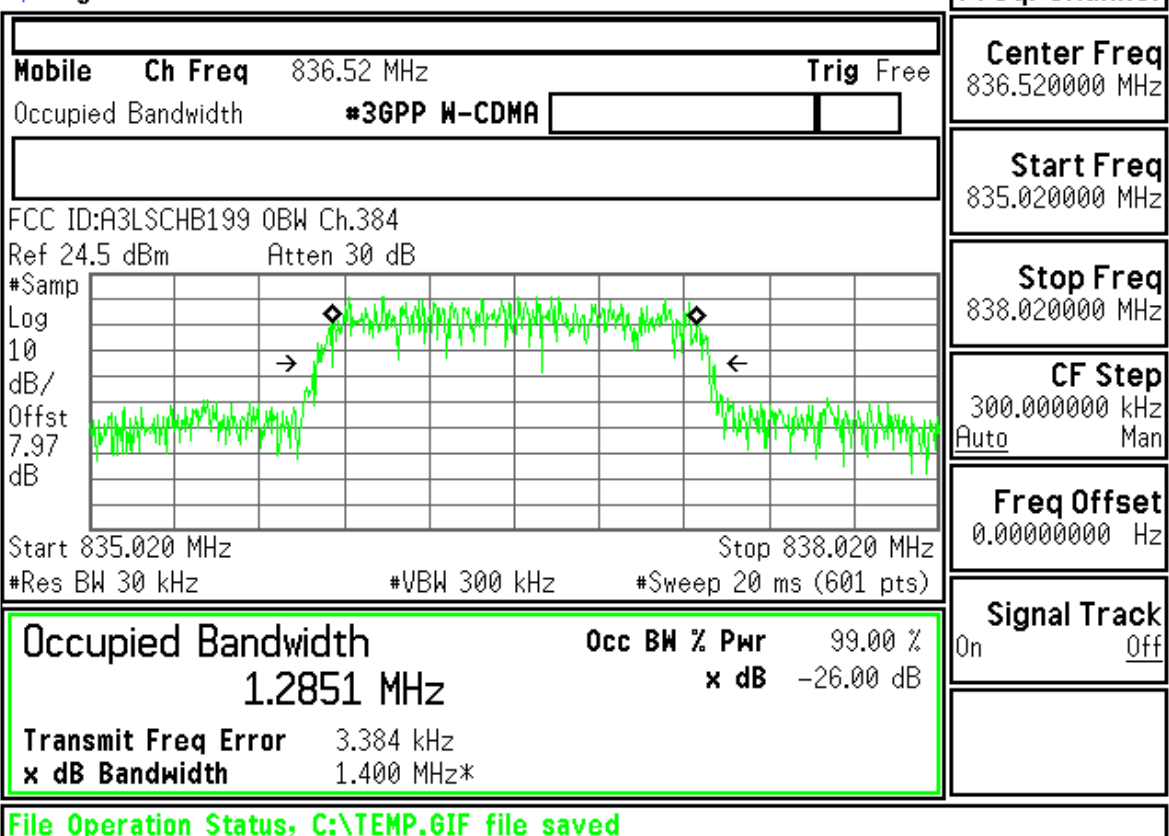
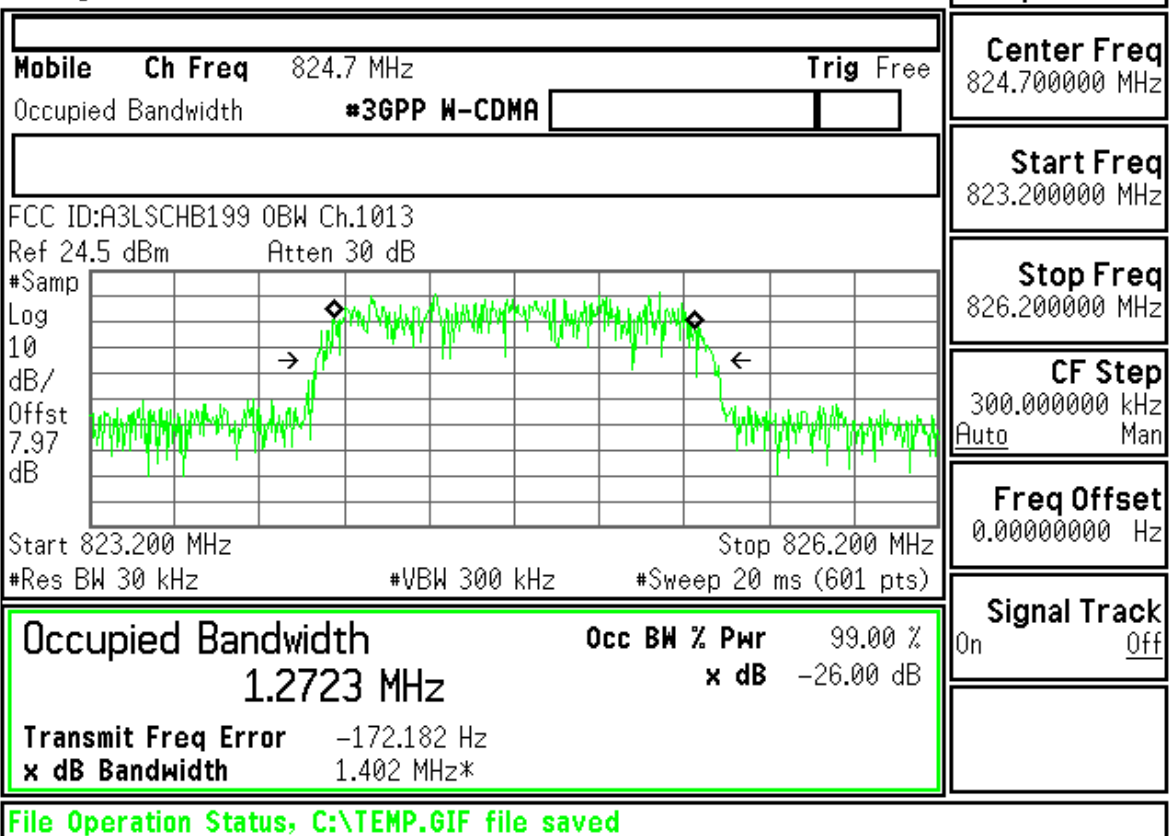
CF Step
1.00000000 MHz
Auto Man

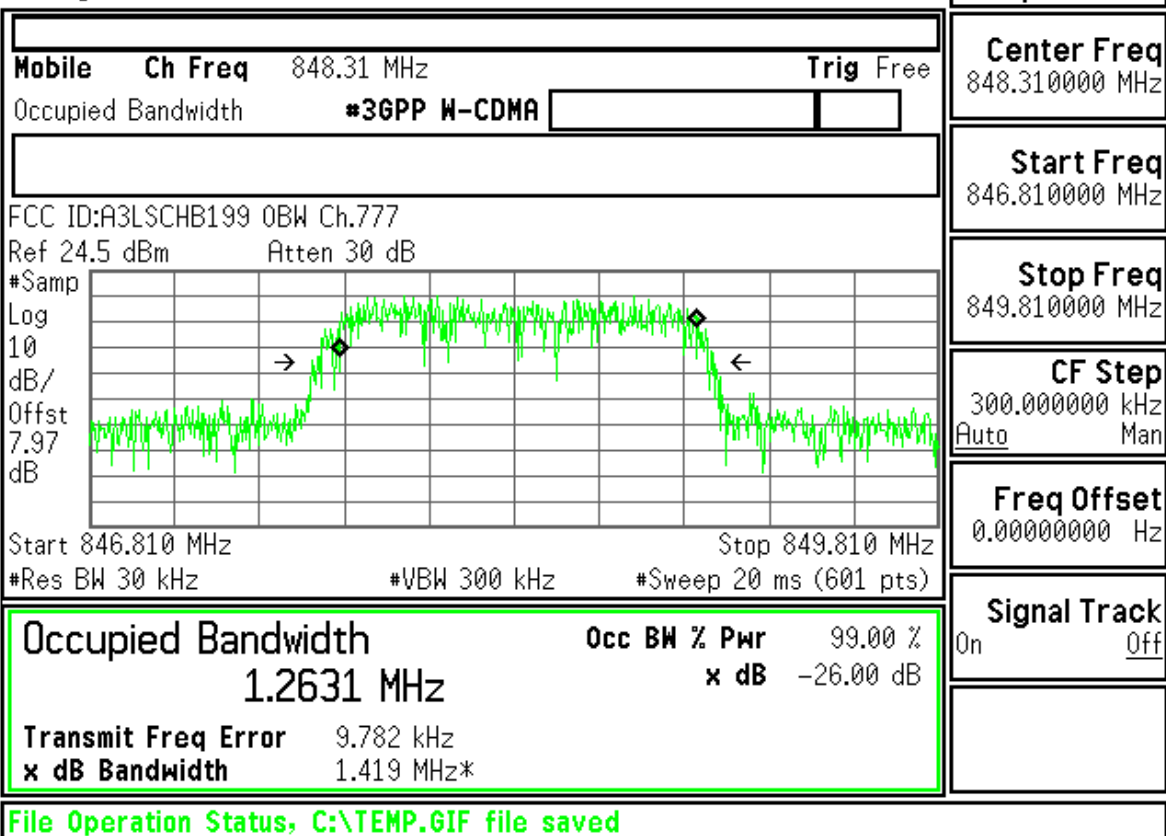
Freq Offset
0.00000000 Hz

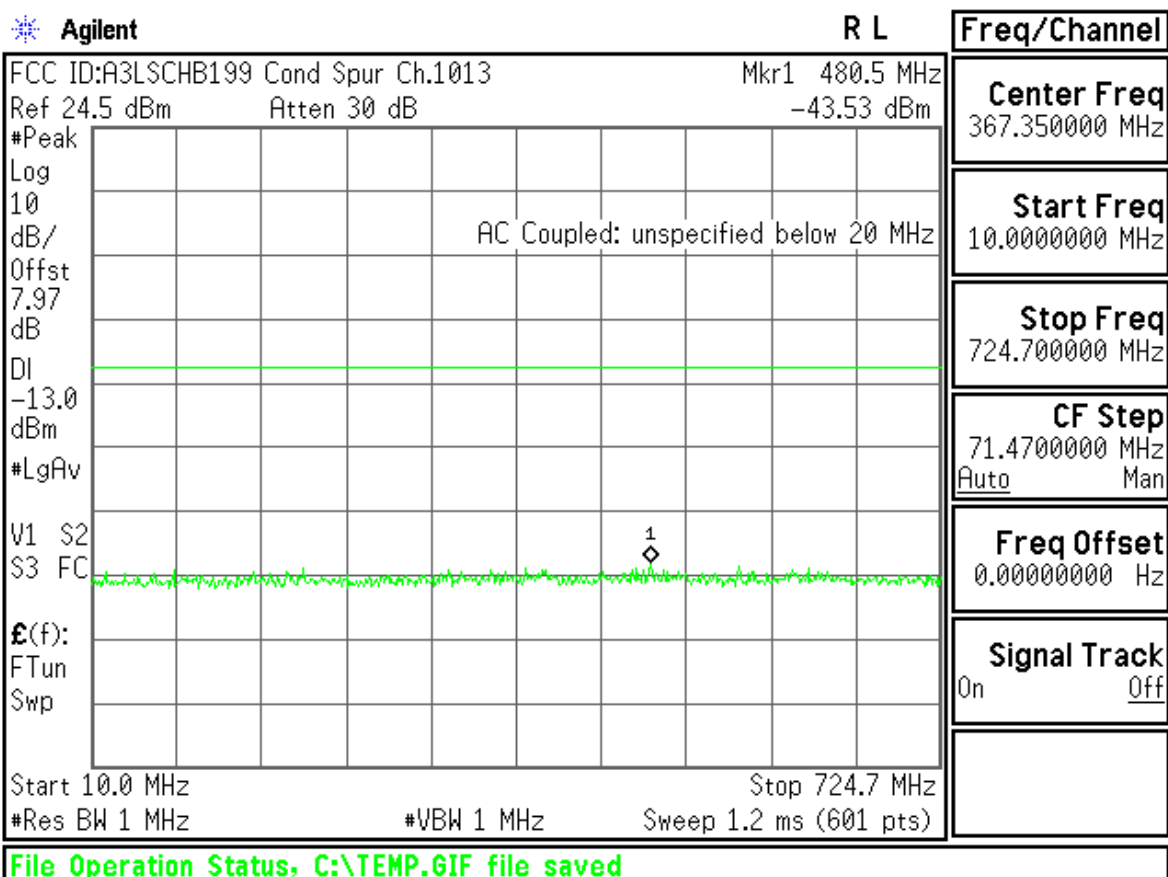
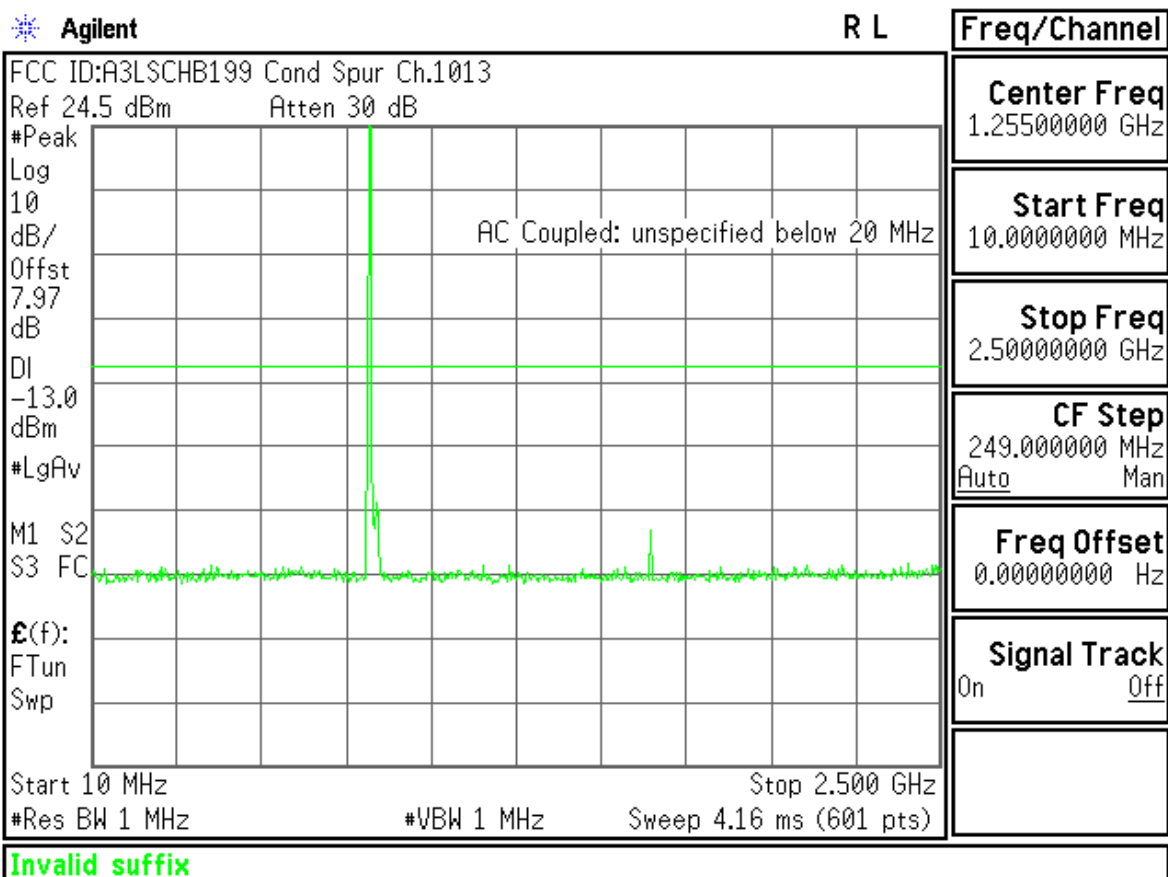
Signal Track
On Off

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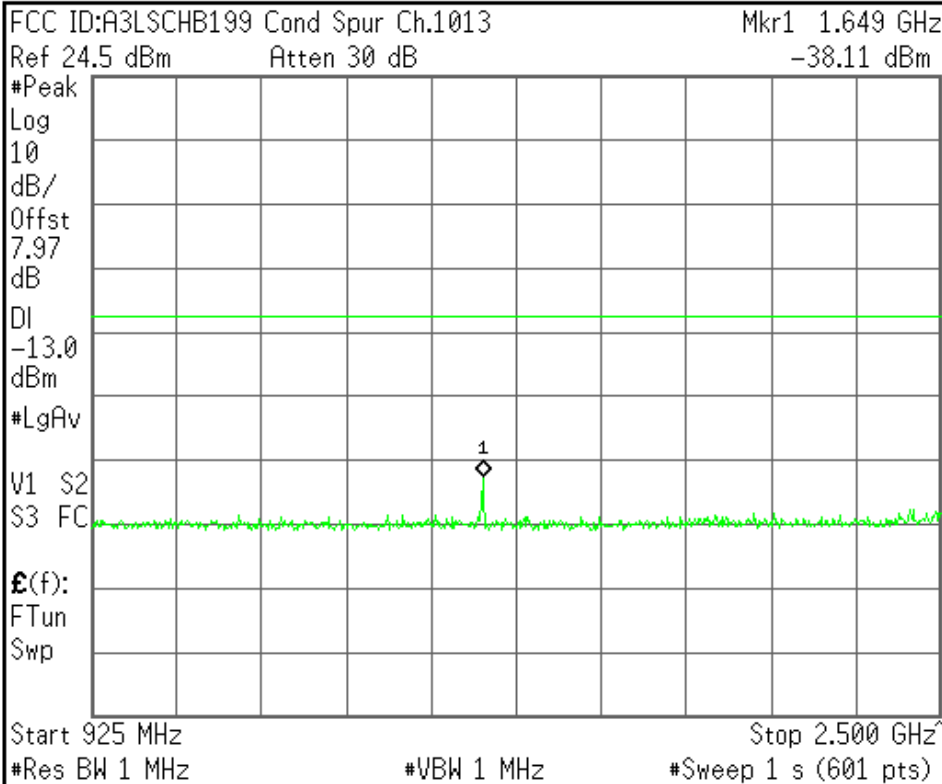




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R L

Freq/Channel



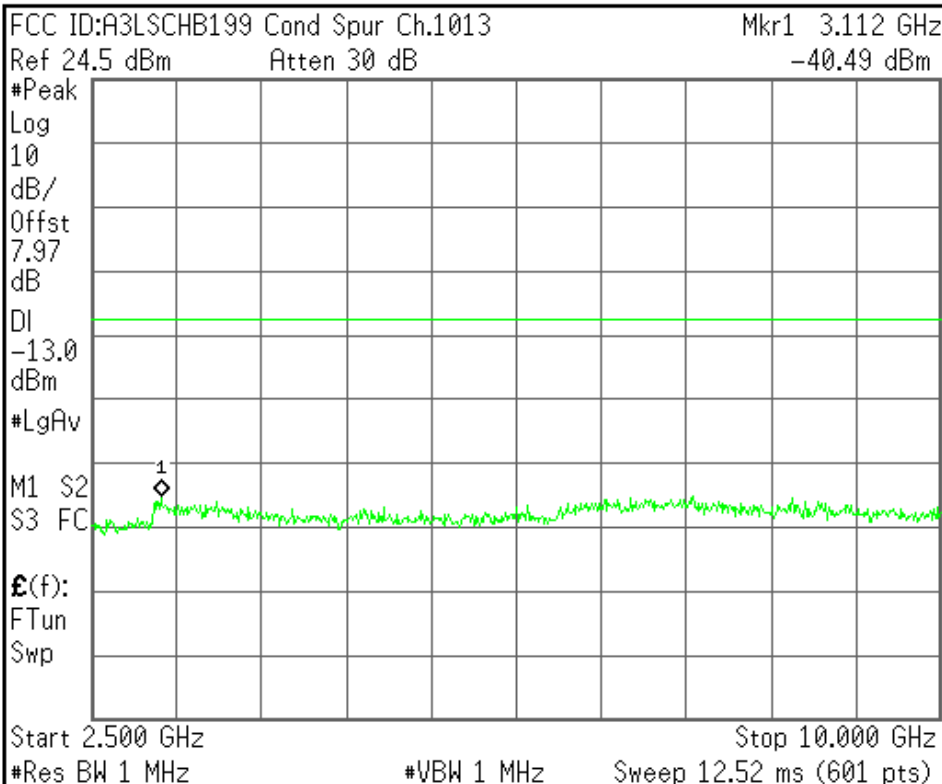
Center Freq
1.71235000 GHz
Start Freq
924.700000 MHz
Stop Freq
2.50000000 GHz
CF Step
157.530000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

Suffix not allowed

Agilent

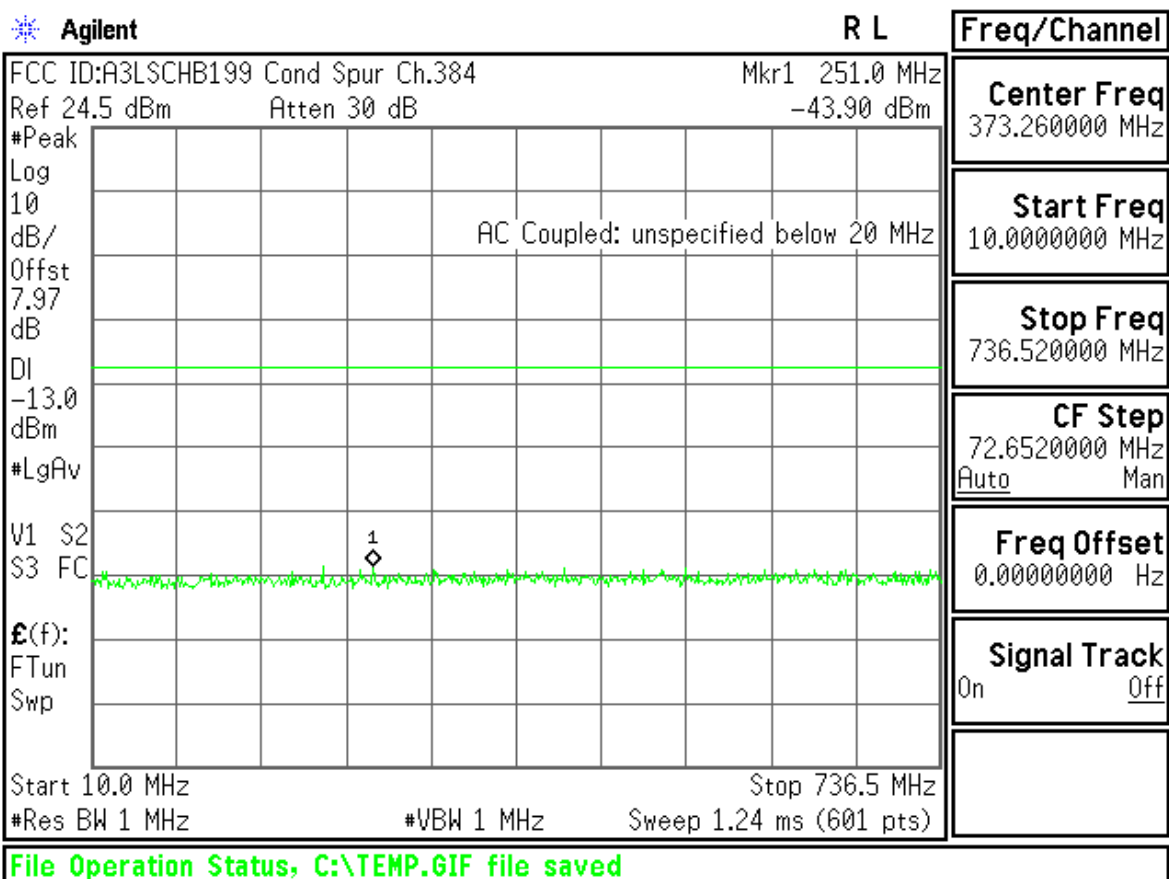
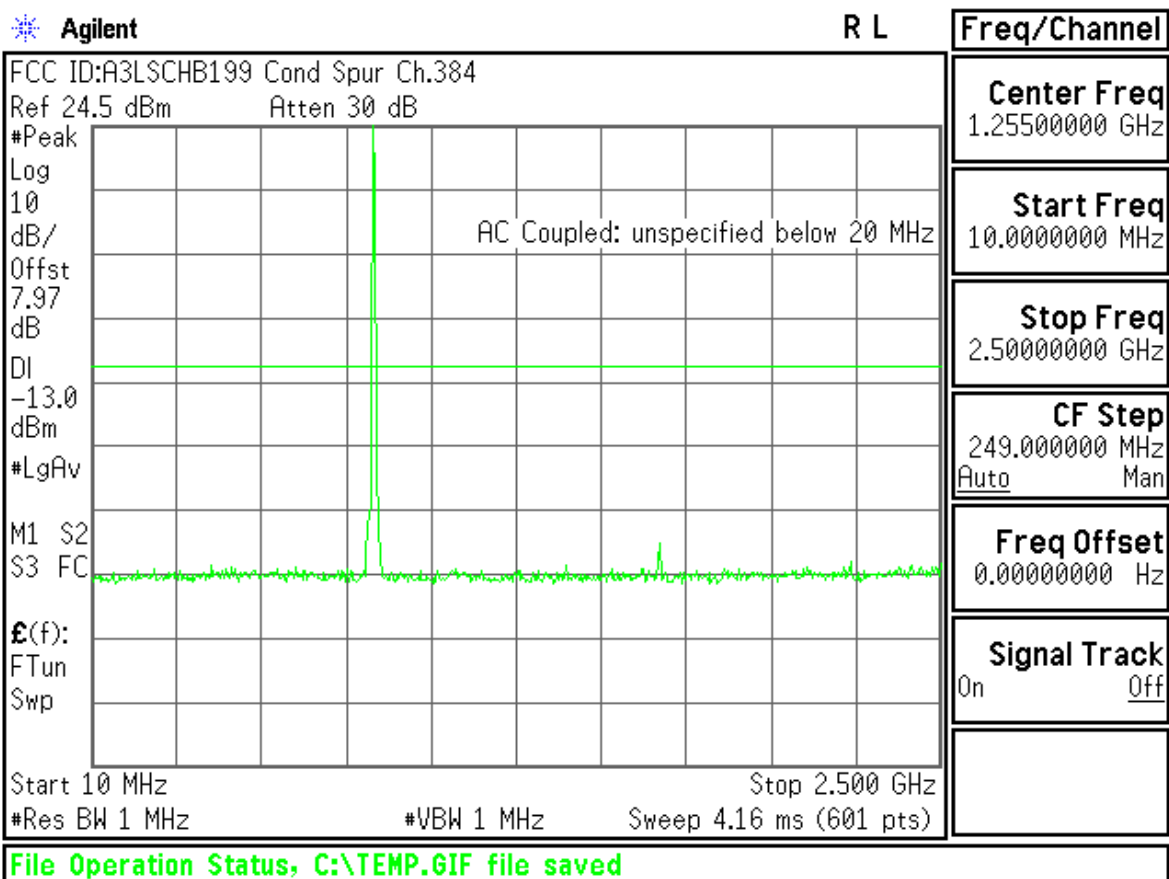
R L

Freq/Channel



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

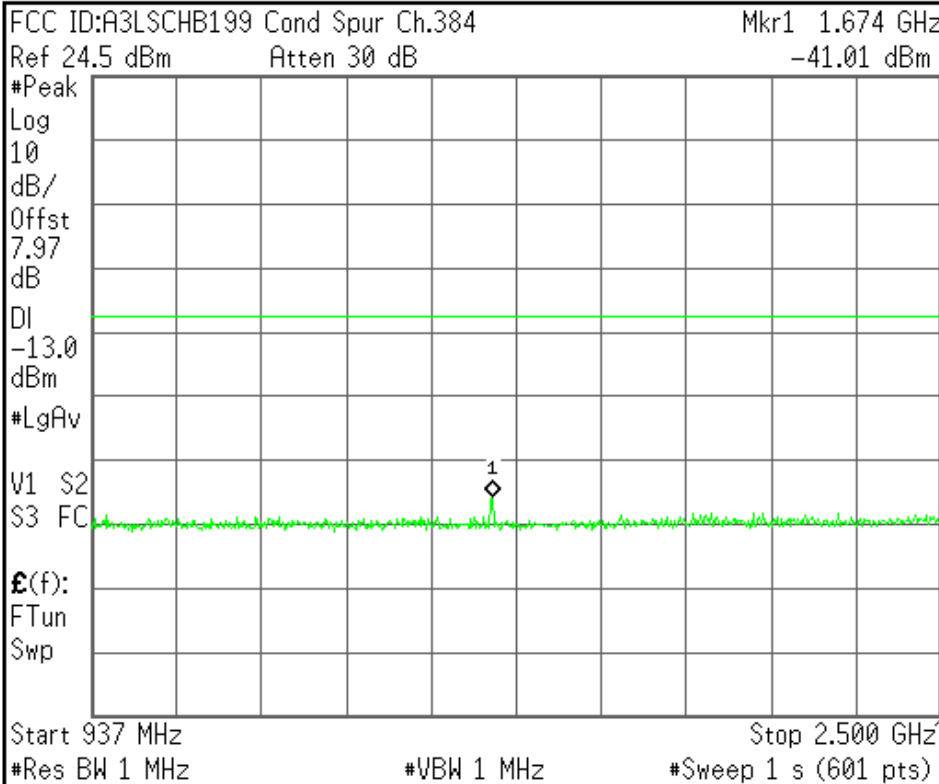
File Operation Status, C:\TEMP.GIF file saved



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R L

Freq/Channel



Center Freq
 1.71826000 GHz

Start Freq
 936.520000 MHz

Stop Freq
 2.50000000 GHz

CF Step
 156.348000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

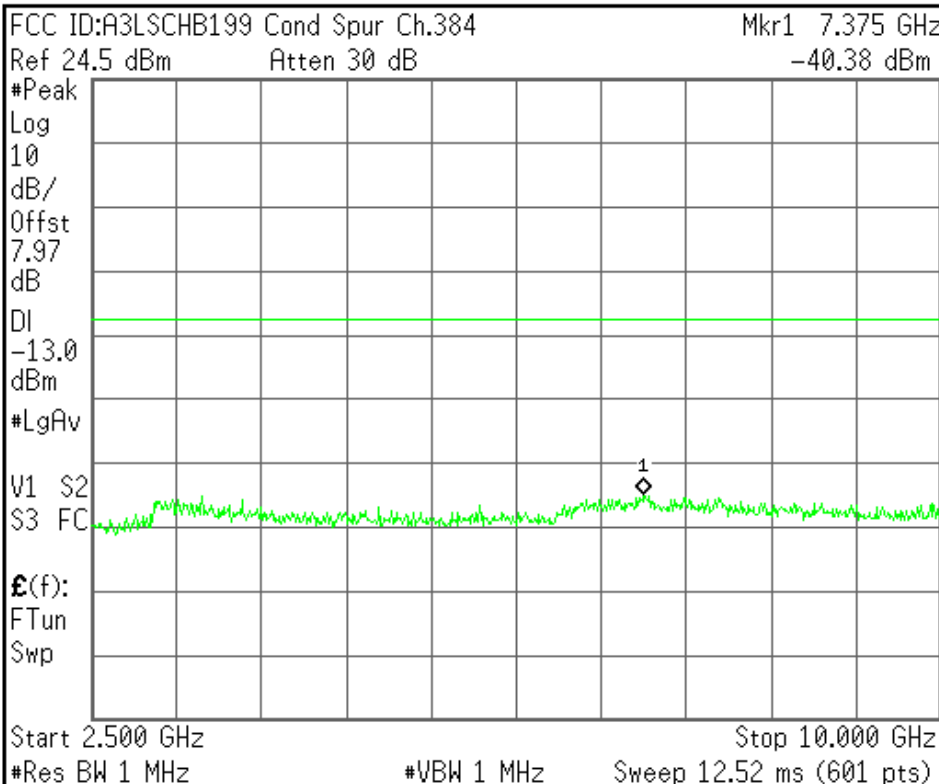
Signal Track
 On Off

Suffix not allowed

Agilent

R T

Freq/Channel



Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.00000000 GHz

CF Step
 750.000000 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:A3LSCHB199 Cond Spur Ch.777

Ref 24.5 dBm

Atten 30 dB

#Peak

Log

10

dB/

Offst

7.97

dB

DI

-13.0

dBm

#LgAv

M1 S2

S3 FC

£(f):

FTun

Swp

Start 10 MHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

Stop 2.500 GHz

AC Coupled: unspecified below 20 MHz

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

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

Agilent

R L

Freq/Channel

FCC ID:A3LSCHB199 Cond Spur Ch.777

Ref 24.5 dBm

Atten 30 dB

Mkr1 496.1 MHz

-43.83 dBm

#Peak

Log

10

dB/

Offst

7.97

dB

DI

-13.0

dBm

#LgAv

V1 S2

S3 FC

£(f):

FTun

Swp

Start 10.0 MHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 1.24 ms (601 pts)

Stop 748.3 MHz

AC Coupled: unspecified below 20 MHz

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

Center Freq

379.155000 MHz

Start Freq

10.0000000 MHz

Stop Freq

748.310000 MHz

CF Step

73.8310000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

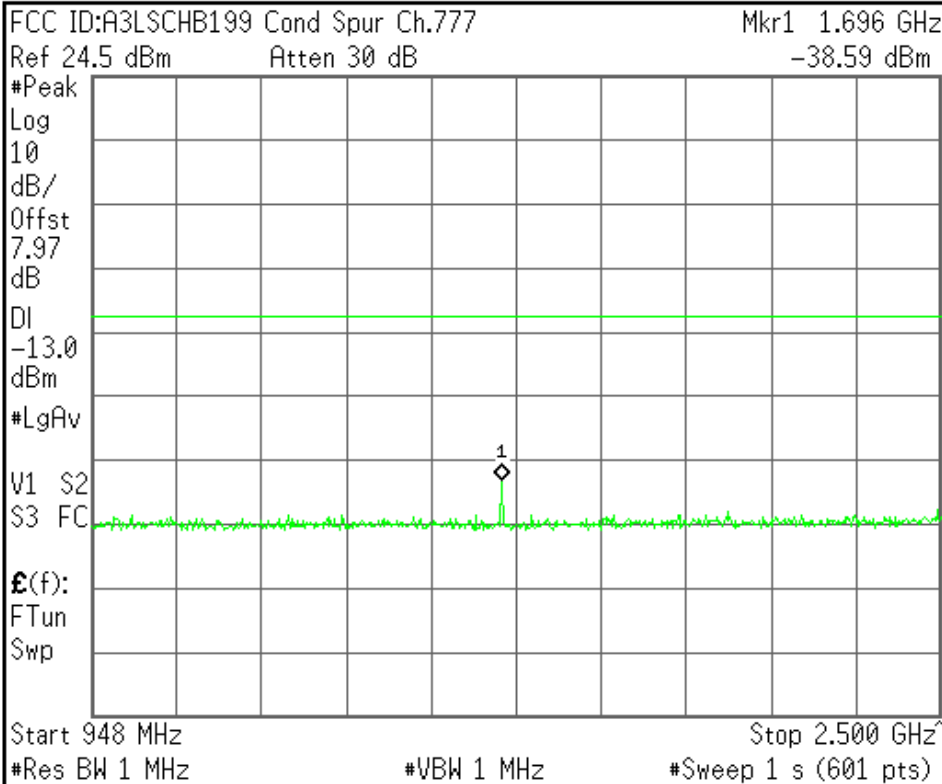
On

Off

Agilent

R L

Freq/Channel



Center Freq
1.72415500 GHz

Start Freq
948.310000 MHz

Stop Freq
2.50000000 GHz

CF Step
155.169000 MHz
Auto Man

Freq Offset
0.00000000 Hz

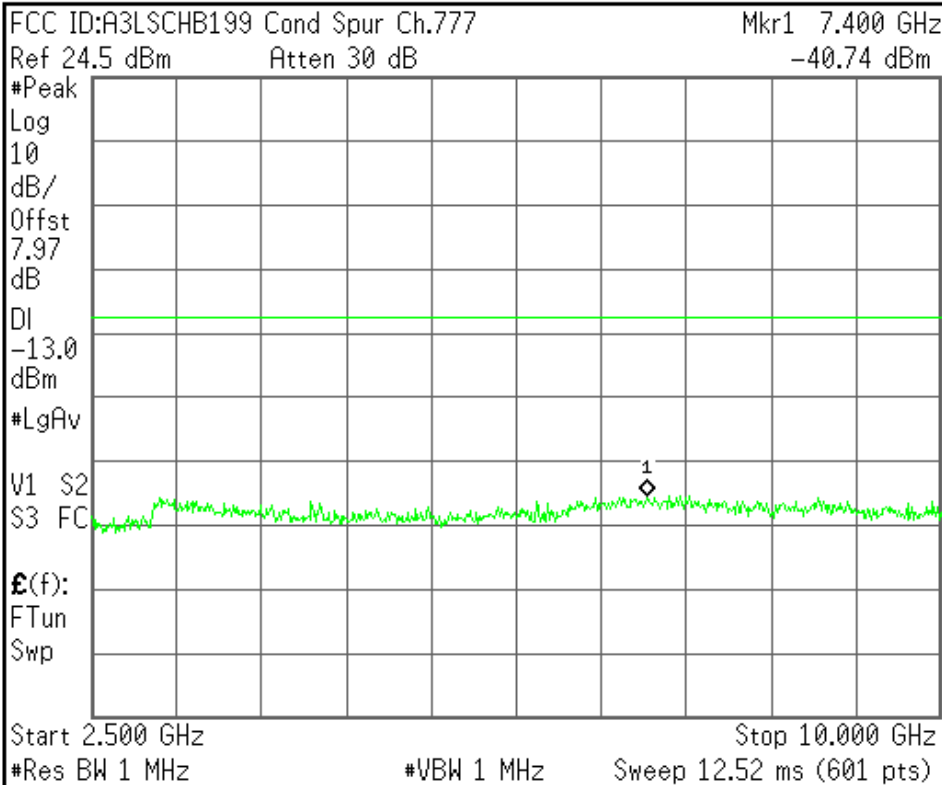
Signal Track
On Off

Suffix not allowed

Agilent

R T

Freq/Channel



Center Freq
6.25000000 GHz

Start Freq
2.50000000 GHz

Stop Freq
10.00000000 GHz

CF Step
750.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

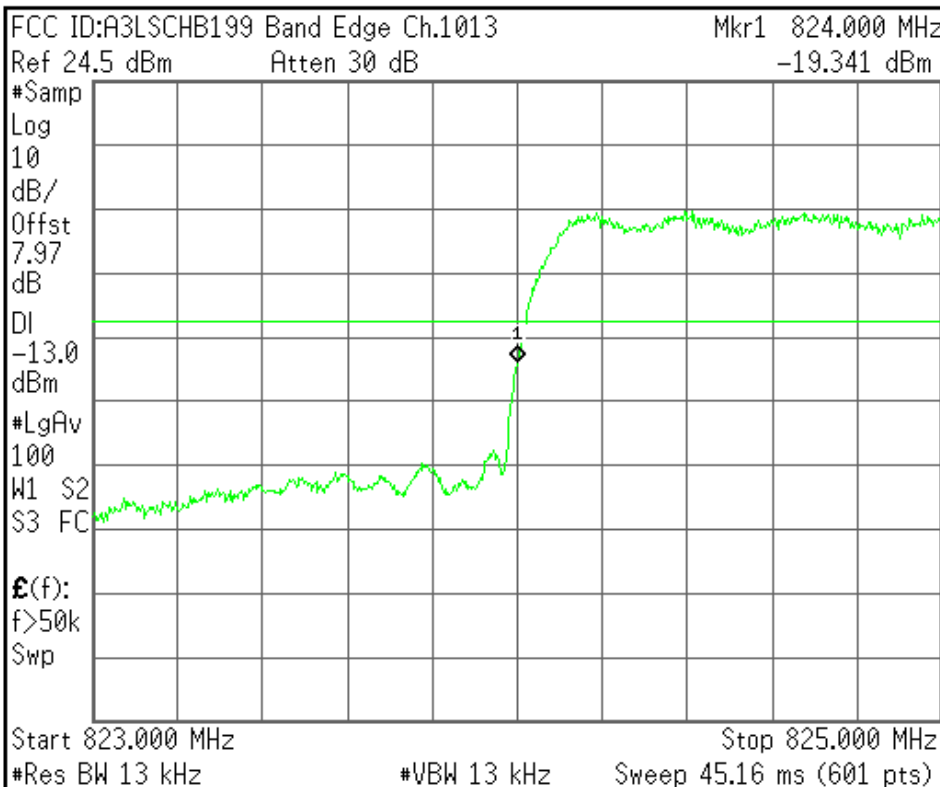
Signal Track
On Off

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

Agilent

R T

Freq/Channel



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

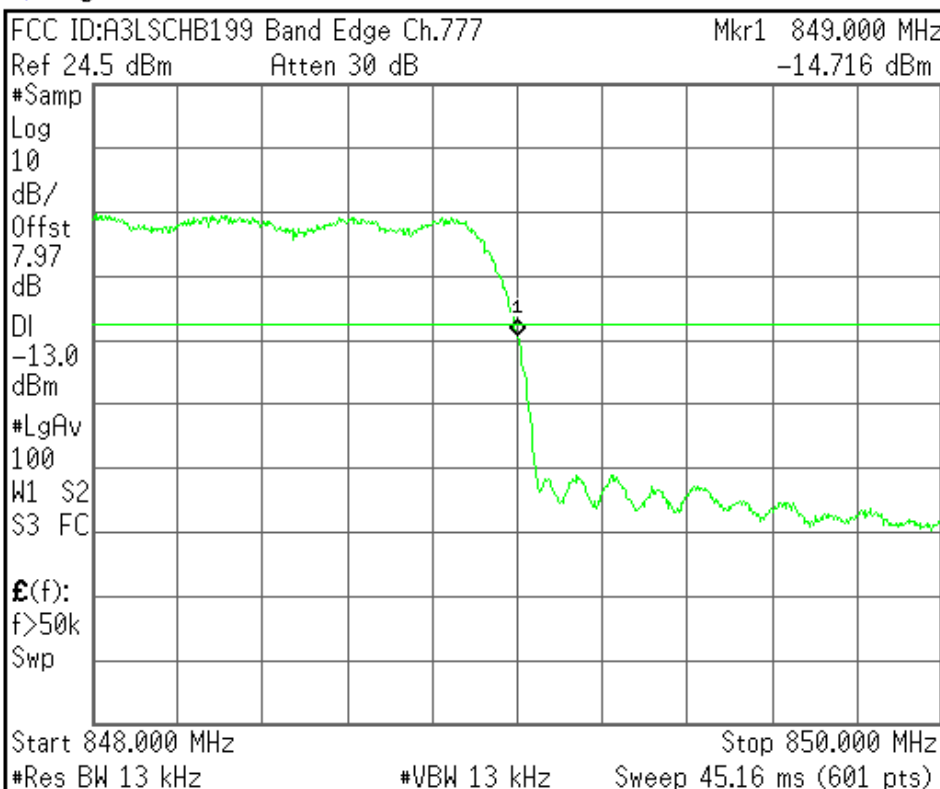
Signal Track
On Off

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

FCC ID:A3LSCHB199 4MHz Span Ch.1013

Mkr1 822.880 MHz

Ref 24.5 dBm

Atten 30 dB

-33.485 dBm

#Samp

Log

10

dB/

Offst

7.97

dB

DI

-13.0

dBm

#LgAv

100

W1 S2

S3 FC

$\mathcal{E}(f)$:

f>50k

Swp

Start 819.000 MHz

Stop 823.000 MHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 1.56 ms (601 pts)

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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

Agilent

R T

Freq/Channel

FCC ID:A3LSCHB199 4MHz Span Ch.777

Mkr1 850.013 MHz

Ref 24.5 dBm

Atten 30 dB

-34.703 dBm

#Samp

Log

10

dB/

Offst

7.97

dB

DI

-13.0

dBm

#LgAv

100

W1 S2

S3 FC

$\mathcal{E}(f)$:

f>50k

Swp

Start 850.000 MHz

Stop 854.000 MHz

#Res BW 100 kHz

#VBW 100 kHz

Sweep 1.56 ms (601 pts)

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

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