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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-W579+
FCC ID (Requested): A3LSCHW579PLUS
Report No: FE-131-R1
Job No: FE-131
Date issued: July 14 , 2007

- Abstract -

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

Prepared By

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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
- Attention: SungJoo KIM, Engineering Manager (QA Lab)

- FCC ID: A3LSCHW579PLUS
- Quantity: Quantity production is planned
- Emission Designators: 1M26F9W(CDMA), 1M27F9W(PCS CDMA), 248KGXW(GSM1900)

- Tx Freq. Range: 824.70-848.31MHz (CDMA)
1851.25-1908.75MHz (PCS CDMA)
1850.2MHz -1909.8MHz (GSM1900)

- Rx Freq. Range: 869.70-893.31MHz (CDMA)
1931.25-1988.75MHz (PCS CDMA)
1930.2MHz - 1989.8MHz (GSM1900)

- Max. Power Rating: 0.259 W ERP CDMA (24.14dBm)
0.089 W EIRP PCS (19.47dBm)
0.532 W EIRP GSM1900 (27.26dBm)

- FCC Classification(s): Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Dual-Band CDMA and PCS GSM Phone with Bluetooth
- Modulation(s): CDMA
- Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s): §24(E), §22(H), §2.
- Dates of Test: July 06 - 09 , 2007
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FE-131-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.

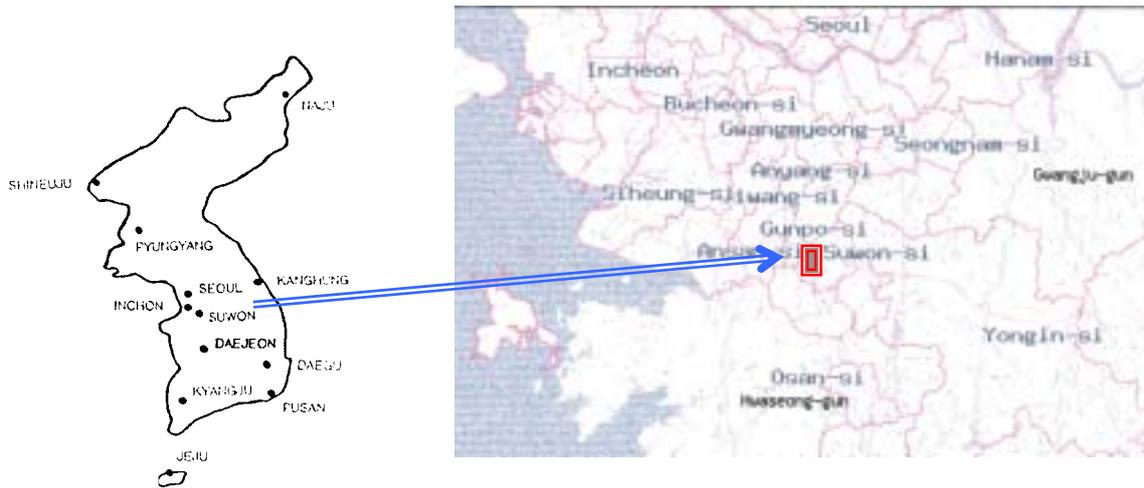


Figure1. Map of the Suwon City area.

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 a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. 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 test antenna shall be raised and lowered, if necessary, to ensure that the maximum signal is still being received. 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.

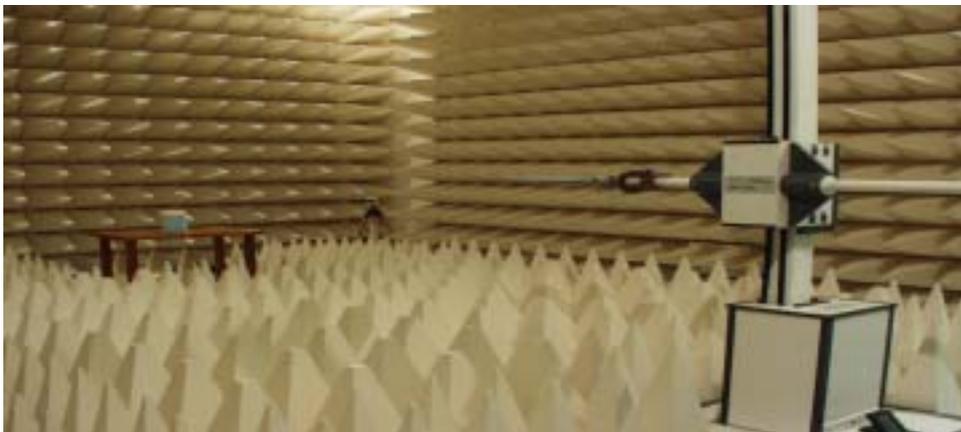


Figure2. Photograph of 3m Fully-Anechoic Chamber



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	ES126	836119/010	2007-10-01
	E4440A(3Hz~26.5GHz)	MY41000236	2008-04-14
	E4440A(3Hz~26.5GHz)	MY41000233	2007-07-21
Signal Generator	SMR20	835197/030	2008-01-11
Amplifier	5S1G4	304866	2007-10-19
Communication test set	8753E	JP38160590	2008-06-26
Power Sensor	8485A	3318A19924	2007-09-24
Power Meter	E4419B	GB41293846	2007-09-06
Pre-Amplifier	8449B	3008A00691	2008-01-02
Communication test set	8960	GB42230535	2008-01-02
	8960	GB42360886	2008-07-03
Antenna Master	MA240	240/618	Not Required
Controller	HD100	100/756	Not Required
Horn Antenna	HF906	100134	2008-05-04
Dipole Antenna	3121C-DB4	9007-588	2008-05-29
Communication test set	CMU200	109162	2007-10-17
Receive Antenna	HL040	353255/019	2007-09-20
	HL040	353255/020	2008-04-25
Spectrum Analyzer	E3640A	MY40003594	2008-06-25
Divider	11636B	51946	Not Required
	11636B	51942	Not Required
High Pass Filter	WHK1.0/15G-10SS	1	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Environmental Chamber	SH-241	92000549	2007-11-16
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 2006.

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
Cellular	1013	RC1	24.39	24.4	-
		RC3	24.55	24.56	24.54
	384	RC1	24.48	24.49	-
		RC3	24.65	24.65	24.58
	777	RC1	24.48	24.47	-
		RC3	24.64	24.64	24.6
PCS	25	RC1	24.36	24.35	-
		RC3	24.48	24.48	24.45
	600	RC1	24.56	24.56	-
		RC3	24.61	24.6	24.55
	1175	RC1	24.35	24.36	-
		RC3	24.49	24.48	24.5

Table 5-3
Maximum Power Output Table for SCH-W579+

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

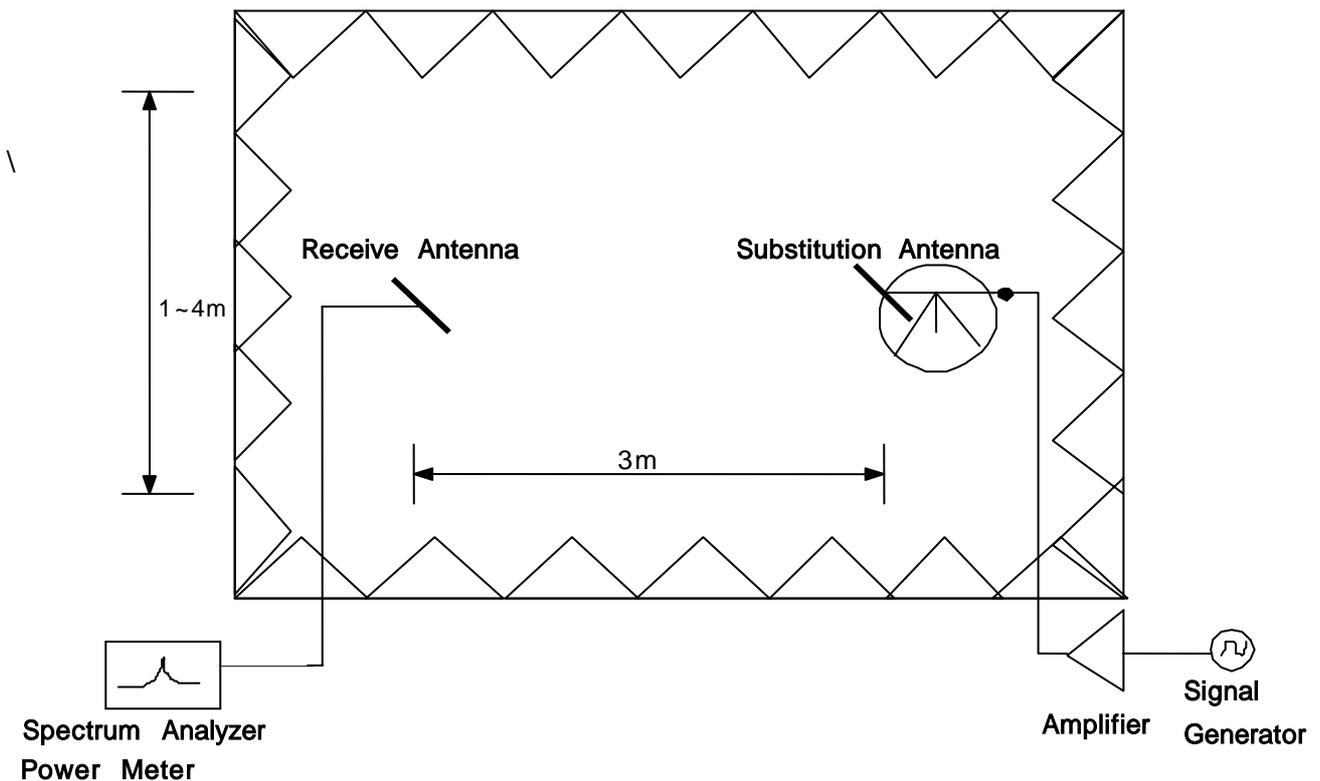


Figure 3. Diagram of ERP/EIRP test Set-up

The EUT was placed on a Non-conducted turntable 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA & 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 is recorded.

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

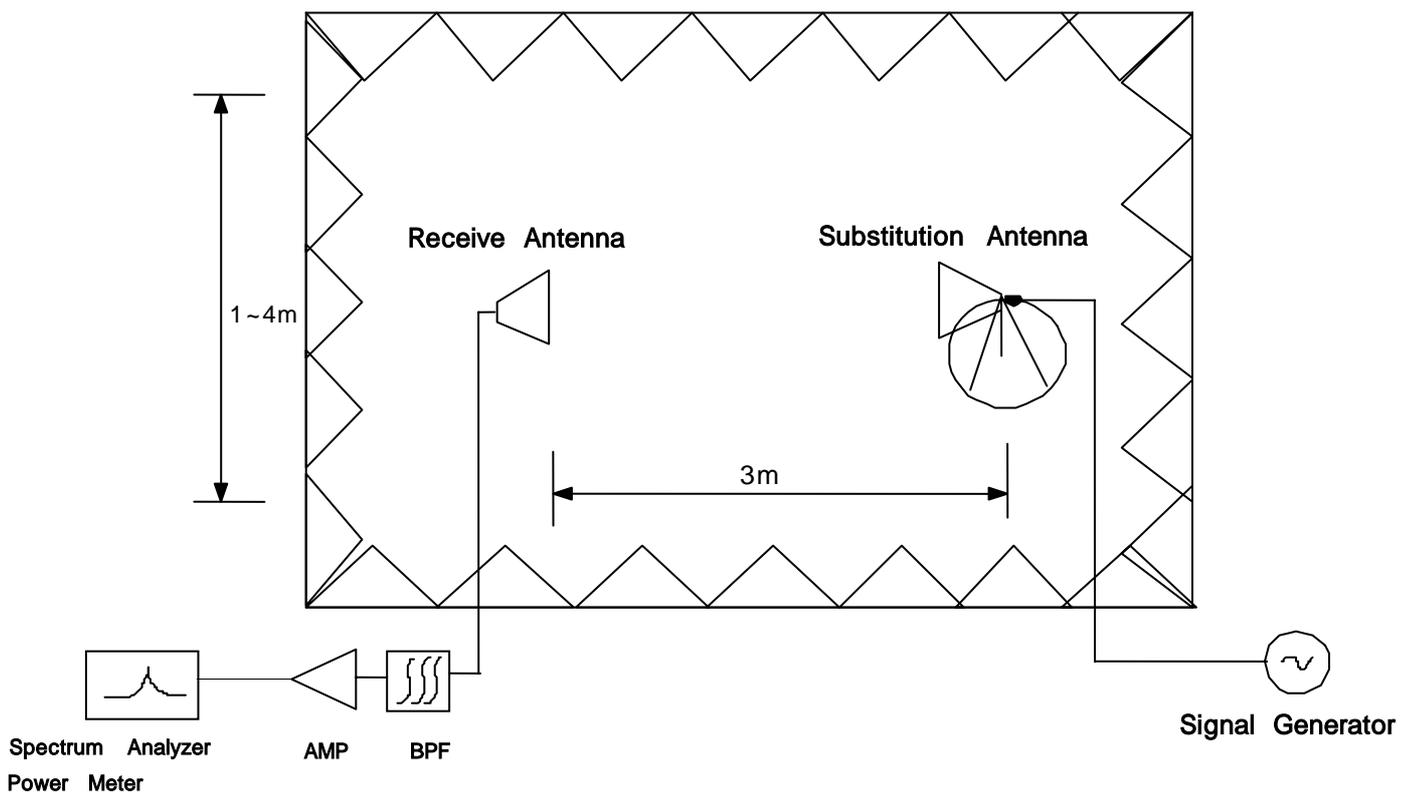


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

The EUT was placed on a Non-conducted turntable 3-meters from the receive antenna. The receive antenna height and turntable rotation 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 $25.5\text{dBm} - (-24.8) = 50.3\text{dBc}$.

- End of page -

5.4 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.

5.5 Spurious and Harmonic Emissions at Antenna Terminal

5.5.1 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

5.5.2 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.

5.6 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.

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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	24.00	H	-14.74	0.00	-14.74
		V	-12.97	0.00	-12.97
836.52	24.00	H	-14.74	0.00	-14.74
		V	-12.97	0.00	-12.97
848.31	24.00	H	-14.74	0.00	-14.74
		V	-12.97	0.00	-12.97

Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.70	-14.65	H1	359	24.09	0.256	Standard
836.52	-14.60	H1	3	24.14	0.259	Standard
848.31	-14.78	H1	1	23.96	0.249	Standard
836.52	-14.97	H1	2	23.77	0.238	Extended

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	24.00	H	-15.41	8.13	-23.54
		V	-15.73	8.13	-23.86
1880.00	24.00	H	-15.46	8.11	-23.57
		V	-15.43	8.11	-23.54
1908.75	24.00	H	-15.33	8.33	-23.66
		V	-14.93	8.33	-23.26

Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1851.25	-29.44	H2	130	18.10	0.065	Standard
1880.00	-28.47	H2	141	19.10	0.081	Standard
1908.75	-28.19	H2	143	19.47	0.089	Standard
1908.75	-30.67	H2	41	16.99	0.050	Extended

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 : 24.14 dBm = 0.259 W

Modulation Signal : CDMA

$$\text{Limit : } 43 + 10\log_{10}(P) = 37.14 \text{ dBc}$$

Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
1013	2	1649.40	-51.64	H1	65.61
	3	2474.10	-61.32	H2	70.80
	4	3298.80	-68.18	V	73.18
	5	4123.50	-	-	-
	6	4948.20	-	-	-
	7	5772.90	-	-	-
384	2	1673.04	-51.27	H1	64.92
	3	2509.56	-63.72	H2	72.71
	4	3346.08	-68.05	V	73.06
	5	4182.68	-	-	-
	6	5019.12	-	-	-
	7	5855.64	-	-	-
777	2	1696.62	-52.59	H1	65.47
	3	2544.93	-65.79	V	74.09
	4	3393.24	-68.30	H1	73.57
	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 : 19.47 dBm = 0.089 W

Modulation Signal : PCS

Limit : $43 + 10\log_{10}(P) = 32.47$ dBc

Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
25	2	3702.50	-56.06	H2	52.61
	3	5553.75	-52.6	H2	43.71
	4	7405.55	-64.79	H2	51.86
	5	9256.25	-68.97	V	52.51
	6	11107.50	-	-	-
	7	12958.75	-	-	-
600	2	3760.00	-47.63	H1	44.12
	3	5640.00	-50.87	H2	42.51
	4	7520.00	-66.77	V	54.67
	5	9400.00	-68.9	H1	52.04
	6	11280.00	-	-	-
	7	13160.00	-	-	-
1175	2	3817.50	-47.68	H2	43.52
	3	5726.25	-49.03	H2	39.65
	4	7635.00	-66.4	H1	53.90
	5	9543.75	-67.25	V	50.66
	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 : 2007.07.07

Test Engineer : JH HAN

Tx Cable loss
 Tx Horn Ant Gain
 Rx Cable loss + HPF Insertion loss + Attenuator
 Pre-Amp gain
 Air loss
 Tested Level from EUT
 = + + -
 = ERP +2.14-

CH	Har	Frequency (MHz)	Tx CL (dB)	Horn Gain (dB)	Tx Level @ (S/G 0dBm)	Tested Level EUT : H (dBm)	Tested Level EUT : V (dBm)	Amplitude of Emission EUT : H (dBm)	Amplitude of Emission EUT : V (dBm)	Result EUT : H (dBc)	Result EUT : V (dBc)
1013	2	1649.40	7.36	8.25	0.89	-51.64	-55.47	-39.33	-43.29	65.61	69.57
	3	2474.10	9.32	9.58	0.26	-61.32	-61.98	-44.52	-44.65	70.80	70.93
	4	3298.80	10.50	9.67	-0.83	-68.04	-68.18	-47.44	-46.90	73.72	73.18
	5	4123.50	12.05	10.59	-1.46	-	-	-	-	-	-
	6	4948.20	13.02	11.00	-2.02	-	-	-	-	-	-
	7	5772.90	14.84	11.36	-3.48	-	-	-	-	-	-
384	2	1673.04	7.56	8.25	0.69	-51.27	-56.21	-38.64	-43.65	64.92	69.93
	3	2509.56	9.42	9.58	0.16	-63.72	-65.36	-46.43	-47.66	72.71	73.94
	4	3346.08	10.54	9.67	-0.87	-68.16	-68.05	-47.43	-46.78	73.71	73.06
	5	4182.68	12.26	10.59	-1.67	-	-	-	-	-	-
	6	5019.12	13.74	11.00	-2.74	-	-	-	-	-	-
	7	5855.64	14.73	11.36	-3.37	-	-	-	-	-	-
777	2	1696.62	7.59	8.25	0.66	-52.59	-53.84	-39.19	-39.97	65.47	66.25
	3	2544.93	9.48	9.58	0.10	-65.51	-65.79	-48.34	-47.81	74.62	74.09
	4	3393.24	10.62	9.67	-0.95	-68.30	-68.95	-47.29	-47.60	73.57	73.88
	5	4241.55	12.20	10.59	-1.61	-	-	-	-	-	-
	6	5089.86	13.99	11.00	-2.99	-	-	-	-	-	-
	7	5938.17	14.94	11.36	-3.58	-	-	-	-	-	-



6.6 PCS Radiated Spurious & Harmonic Conversion Table

Date : 2007.07.07

Test Engineer : JH HAN

Tx Cable loss
 Tx Horn Ant Gain
 Rx Cable loss + HPF Insertion loss + Attenuator
 Pre-Amp gain
 Air loss
 Tested Level from EUT
 = + + -
 = EIRP -

CH	Har	Frequency (MHz)	Tx CL (dB)	Horn Gain (dB)	Tx Level @ (S/G 10dBm)	Tested Level EUT : H (dBm)	Tested Level EUT : V (dBm)	Amplitude of Emission EUT : H (dBm)	Amplitude of Emission EUT : V (dBm)	Result EUT : H (dBc)	Result EUT : V (dBc)
25	2	3702.50	11.18	9.62	8.44	-56.06	-59.43	-33.14	-35.45	52.61	54.92
	3	5553.75	14.56	11.05	6.49	-52.60	-54.61	-24.24	-26.35	43.71	45.82
	4	7405.00	17.49	11.70	4.21	-64.79	-66.12	-32.39	-34.08	51.86	53.55
	5	9256.25	20.06	12.38	2.32	-69.31	-68.97	-33.19	-33.04	52.66	52.51
	6	11107.50	22.21	13.52	1.31	-	-	-	-	-	-
	7	12958.75	24.14	13.03	-1.11	-	-	-	-	-	-
600	2	3760.00	11.48	9.62	8.14	-47.63	-50.28	-24.65	-26.48	44.12	45.95
	3	5640.00	14.82	11.05	6.23	-50.87	-53.62	-23.04	-25.56	42.51	45.03
	4	7520.00	17.84	11.70	3.86	-67.55	-66.77	-35.58	-35.20	55.05	54.67
	5	9400.00	20.38	12.38	2.00	-68.90	-69.30	-32.57	-33.20	52.04	52.67
	6	11280.00	22.52	13.52	1.00	-	-	-	-	-	-
	7	13160.00	24.62	13.03	-1.59	-	-	-	-	-	-
1175	2	3817.50	11.71	9.62	7.91	-47.68	-50.51	-24.05	-26.75	43.52	46.22
	3	5726.25	14.83	11.05	6.22	-49.03	-53.11	-20.18	-24.54	39.65	44.01
	4	7635.00	18.09	11.70	3.61	-66.40	-68.22	-34.43	-36.86	53.90	56.33
	5	9543.75	20.83	12.38	1.55	-69.49	-67.25	-33.64	-31.19	53.11	50.66
	6	11452.50	22.17	13.52	1.35	-	-	-	-	-	-
	7	13361.25	24.55	13.03	-1.52	-	-	-	-	-	-



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)	-20.35	836,519,980	-0.000002	-0.024
100%		-30	-10.84	836,519,989	-0.000001	-0.013
100%		-20	-8.31	836,519,992	-0.000001	-0.010
100%		-10	-13.50	836,519,987	-0.000002	-0.016
100%		0	11.57	836,520,012	0.000001	0.014
100%		+10	-9.12	836,519,991	-0.000001	-0.011
100%		+20	-20.35	836,519,980	-0.000002	-0.024
100%		+30	7.10	836,520,007	0.000001	0.008
100%		+40	-10.84	836,519,989	-0.000001	-0.013
100%		+50	-30.40	836,519,970	-0.000004	-0.036
100%		+60	-21.75	836,519,978	-0.000003	-0.026
85%	3.35	+20	13.74	836,520,014	0.000002	0.016
115%	4.26	+20	-11.04	836,519,989	-0.000001	-0.013
Batt. Endpoint	3.35	+20	13.74	836,520,014	0.000002	0.016

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

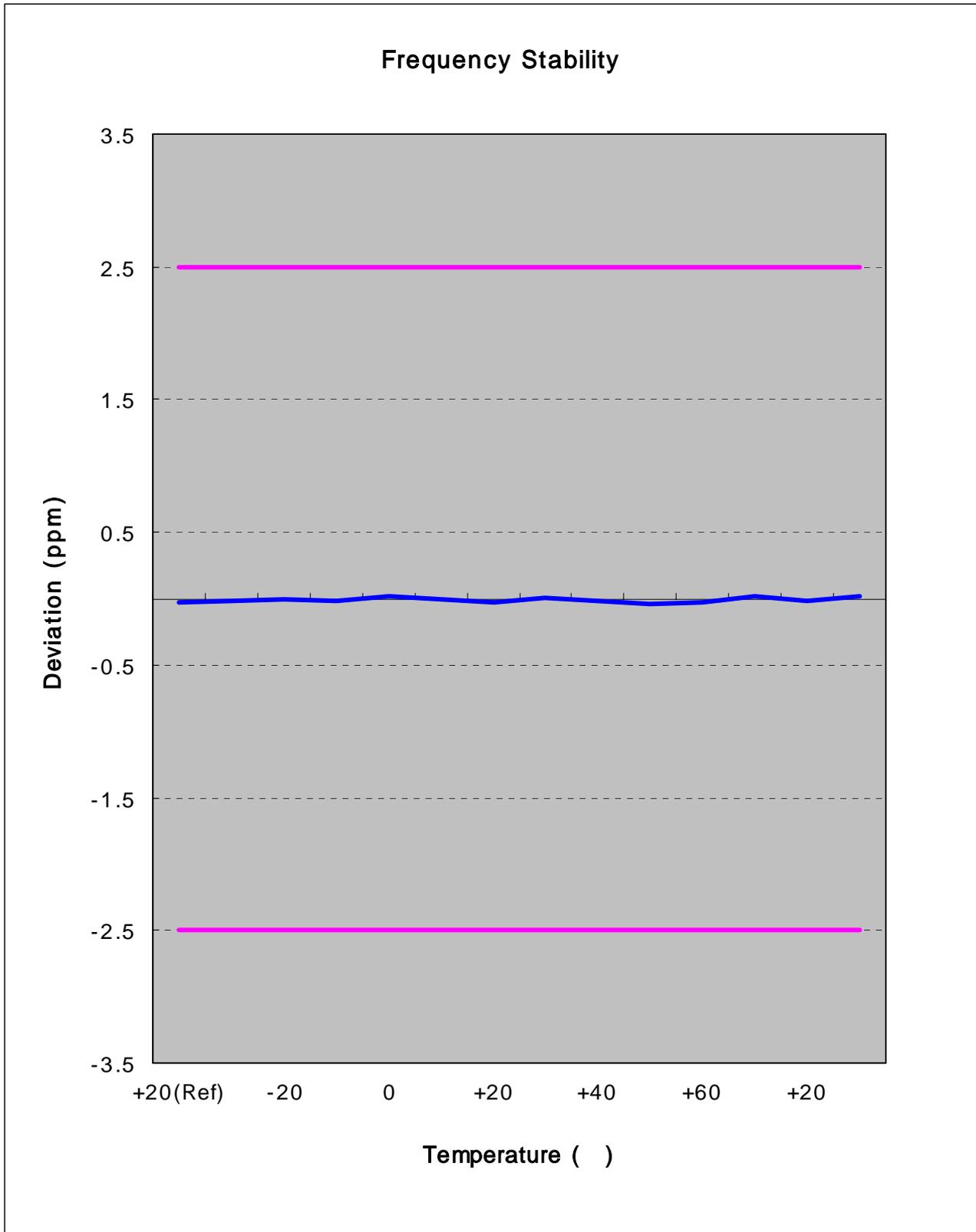
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	-20.40	1,879,999,980	-0.000001	-0.011
100%		-30	-34.89	1,879,999,965	-0.000002	-0.019
100%		-20	-11.06	1,879,999,989	-0.000001	-0.006
100%		-10	14.51	1,880,000,015	0.000001	0.008
100%		0	18.20	1,880,000,018	0.000001	0.010
100%		+10	-24.68	1,879,999,975	-0.000001	-0.013
100%		+20	-20.40	1,879,999,980	-0.000001	-0.011
100%		+30	-9.41	1,879,999,991	-0.000001	-0.005
100%		+40	13.54	1,880,000,014	0.000001	0.007
100%		+50	22.60	1,880,000,023	0.000001	0.012
100%		+60	-10.05	1,879,999,990	-0.000001	-0.005
85%		3.35	+20	25.14	1,880,000,025	0.000001
115%	4.26	+20	-11.41	1,879,999,989	-0.000001	-0.006
Batt. Endpoint	3.35	+20	25.14	1,880,000,025	0.000001	0.013

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

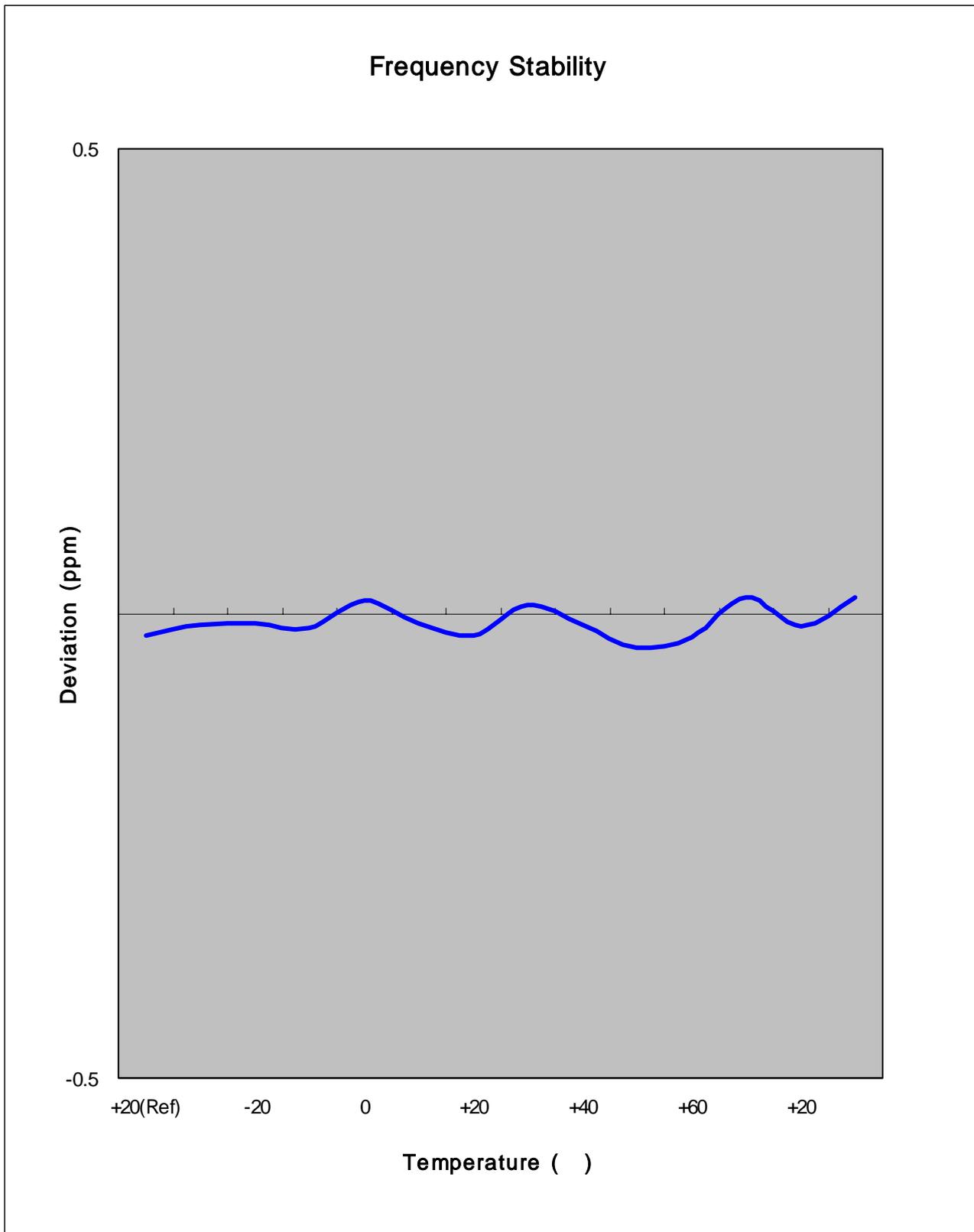
The EUT is tested down to the battery end point

6.7.3 CDMA Frequency Stability Graph



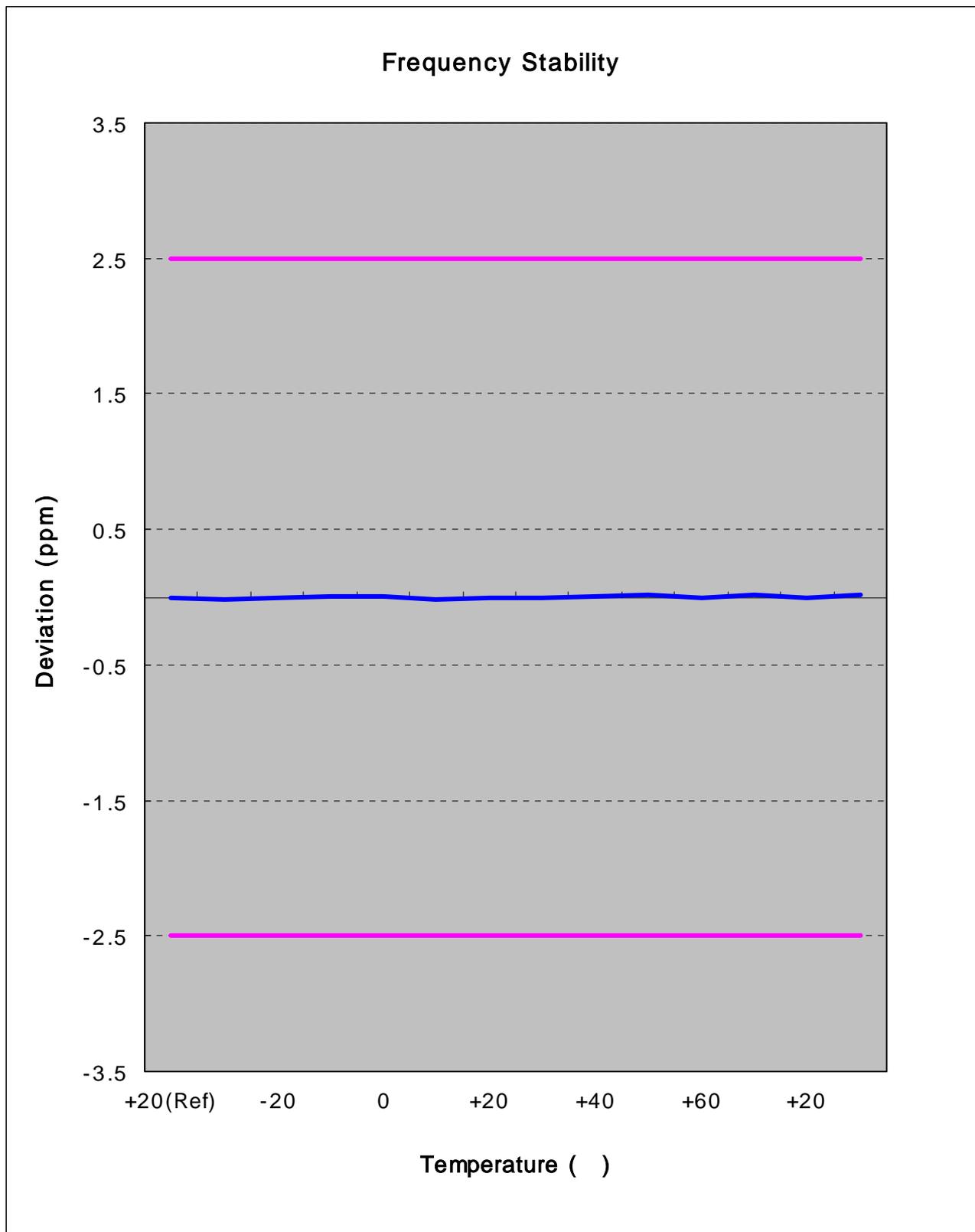
– End of page –

Zoom In



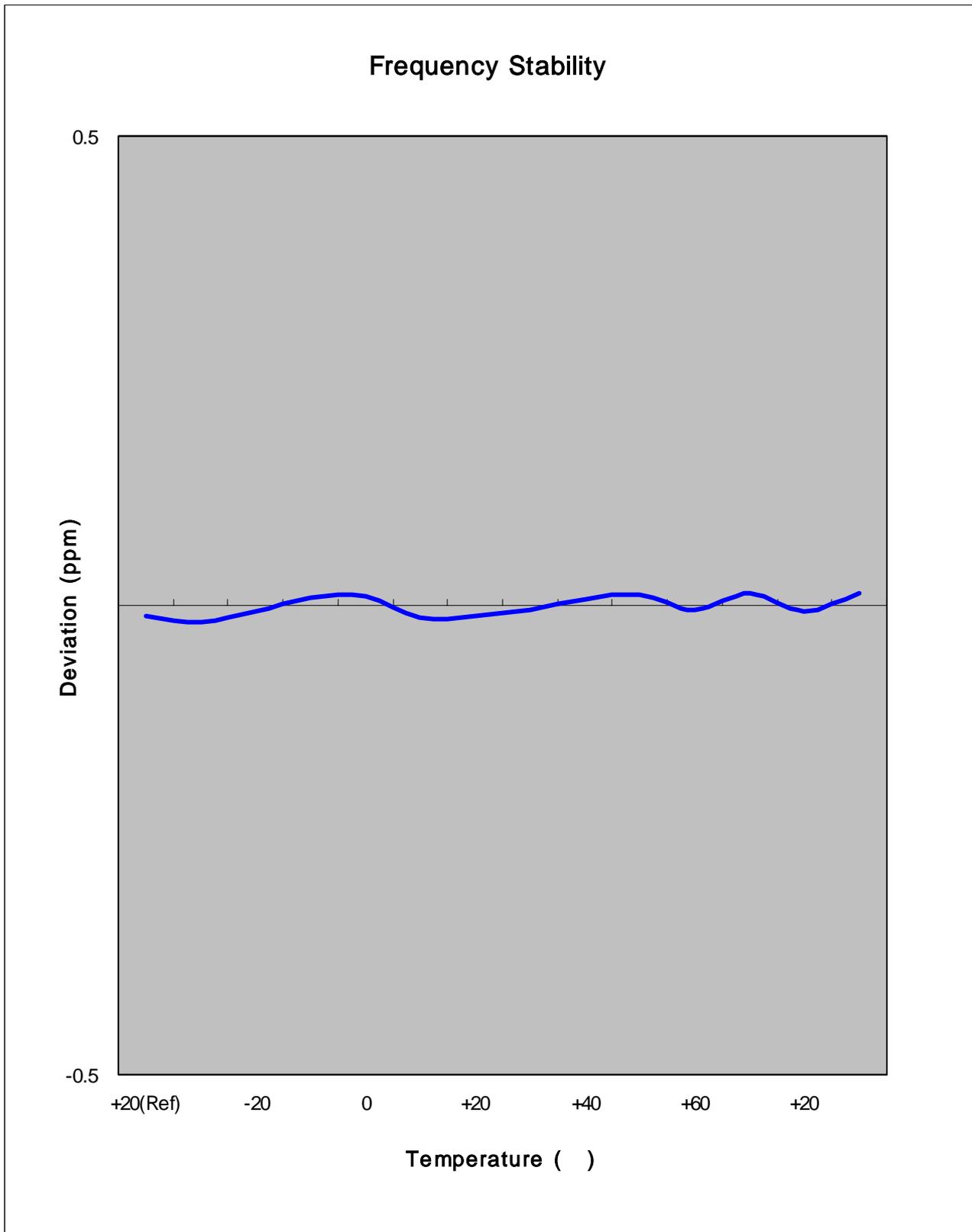
- End of page -

6.7.4 PCS Frequency Stability Graph



– End of page –

Zoom In



- End of page -

7. SAMPLE CALCULATION

7.1 Emission Designator

Emission Designator = 1M25F9W

Calculation : 2M + 2DK

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 –



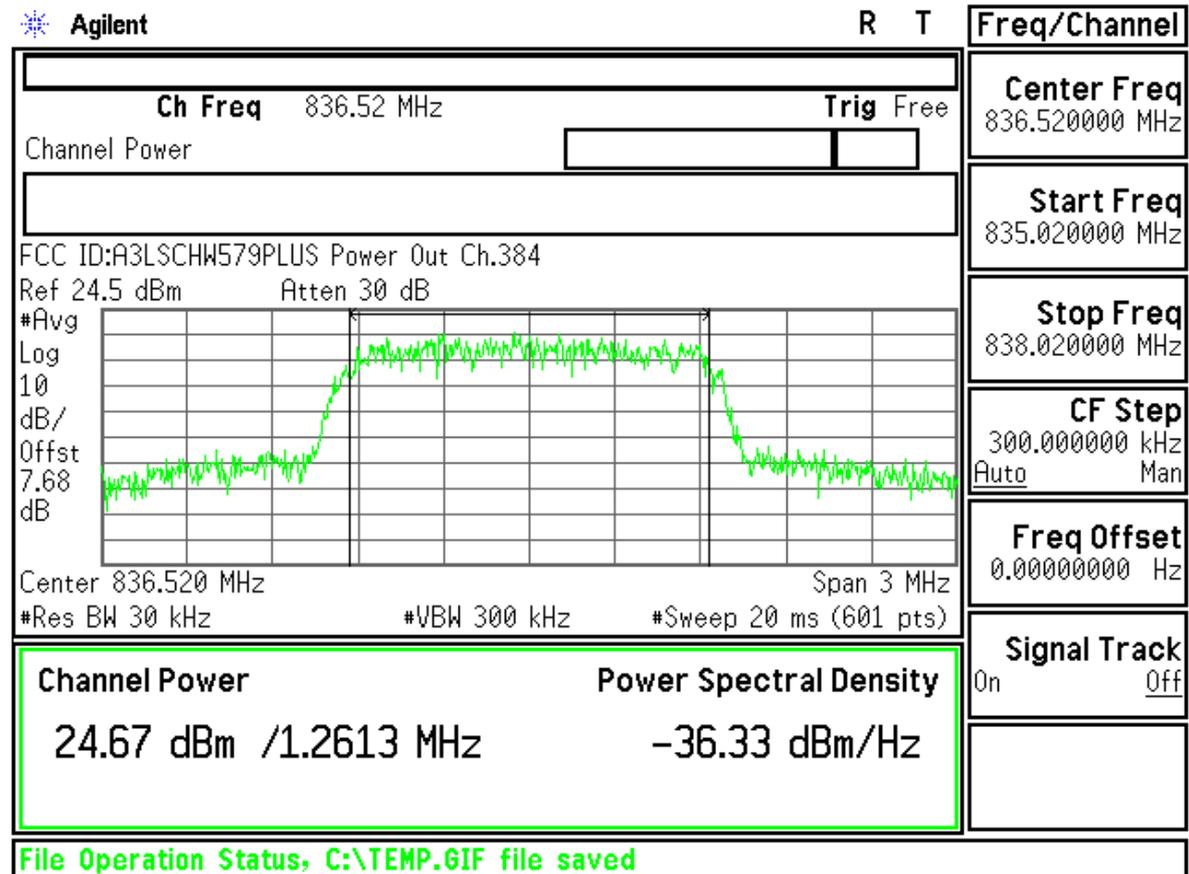
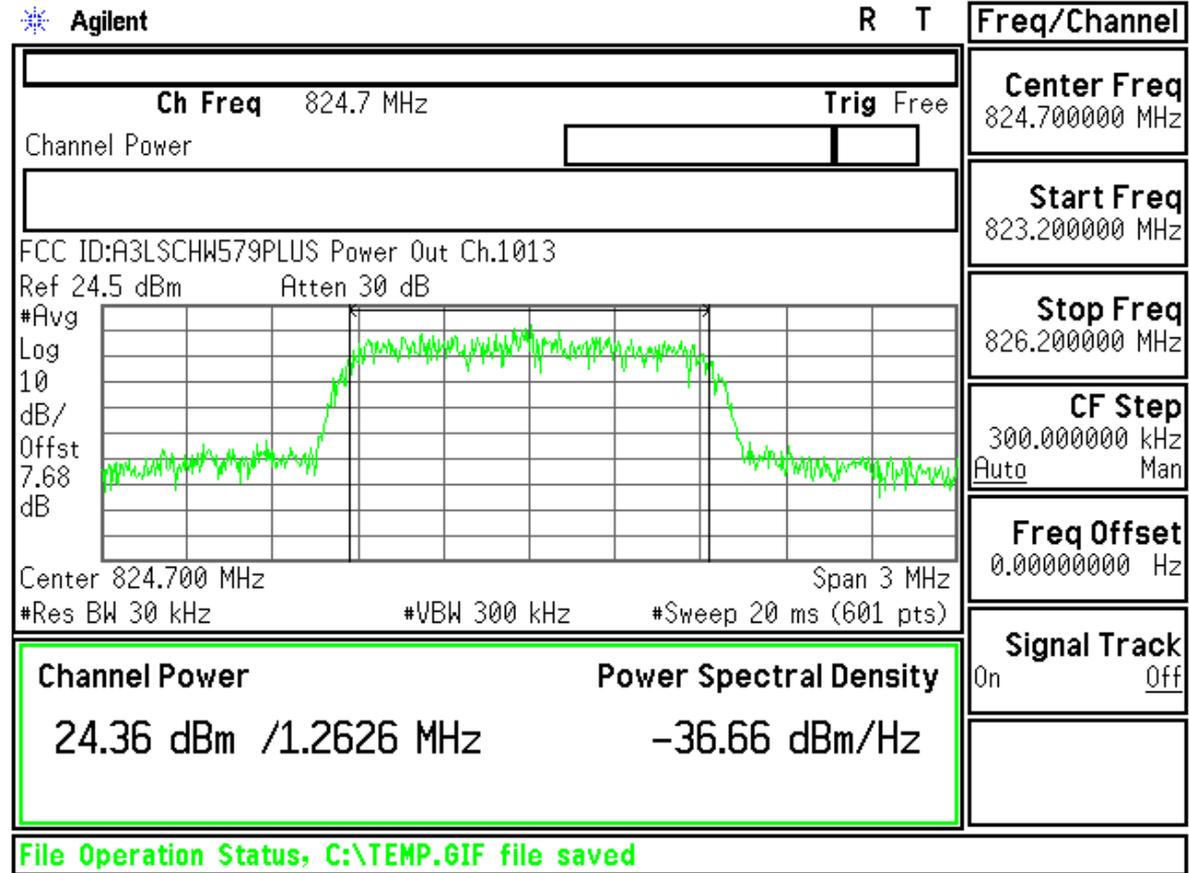
8. CONCLUSION

The data collected shows that the SAMSUNG Dual-Band CDMA Phone with Bluetooth
FCC ID : A3LSCHW579PLUS 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

Ch Freq 848.31 MHz Trig Free

Channel Power

Center Freq
848.310000 MHz

Start Freq
846.810000 MHz

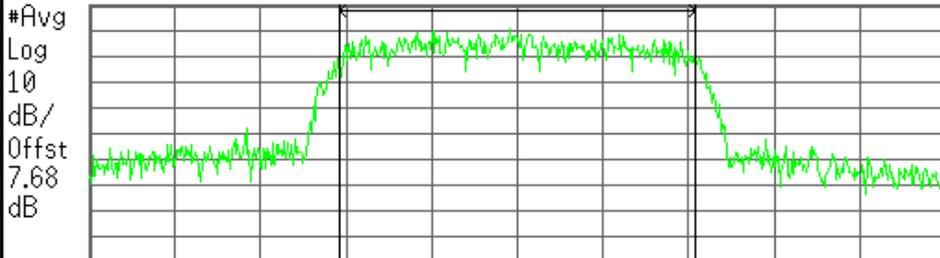
Stop Freq
849.810000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHW579PLUS Power Out Ch.777
Ref 24.5 dBm Atten 30 dB



Center 848.310 MHz Span 3 MHz
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

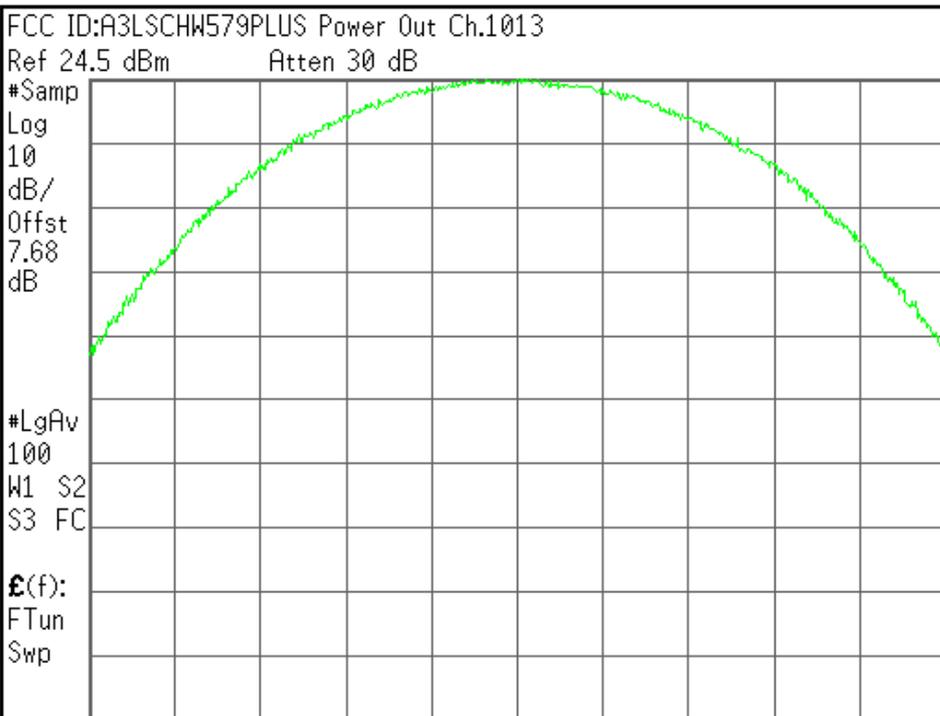
Channel Power	Power Spectral Density
24.63 dBm /1.2423 MHz	-36.31 dBm/Hz

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

Agilent

R T

Freq/Channel



Center 824.70 MHz Span 10 MHz
#Res BW 3 MHz #VBW 3 MHz Sweep 1 ms (601 pts)

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

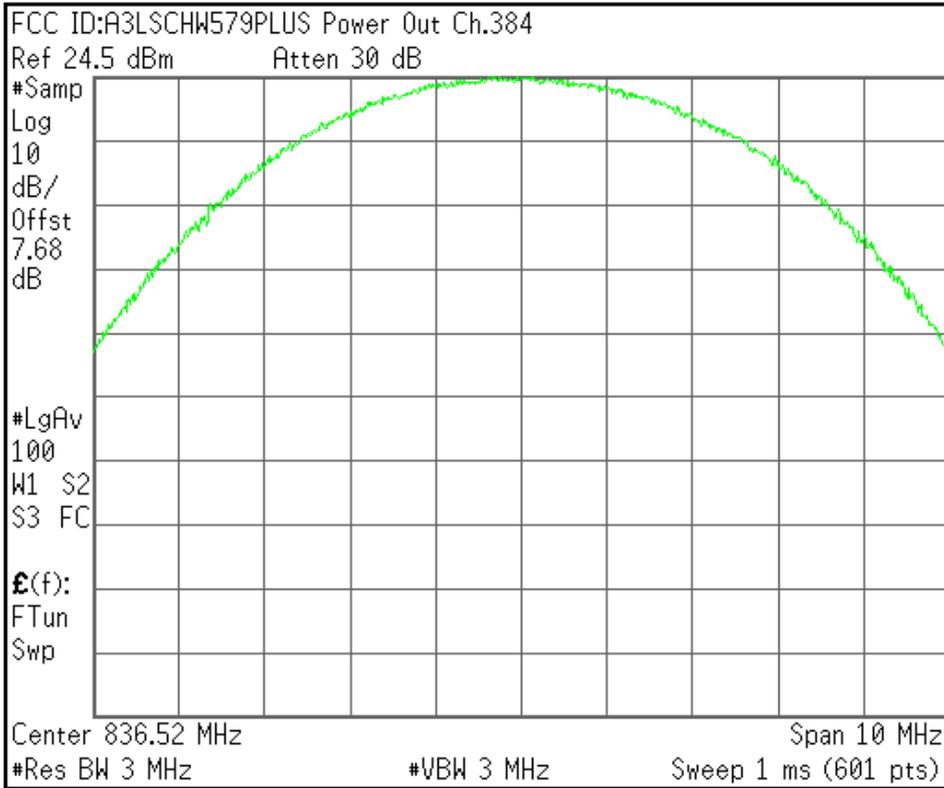
Signal Track
On Off

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

Agilent

R T

Freq/Channel



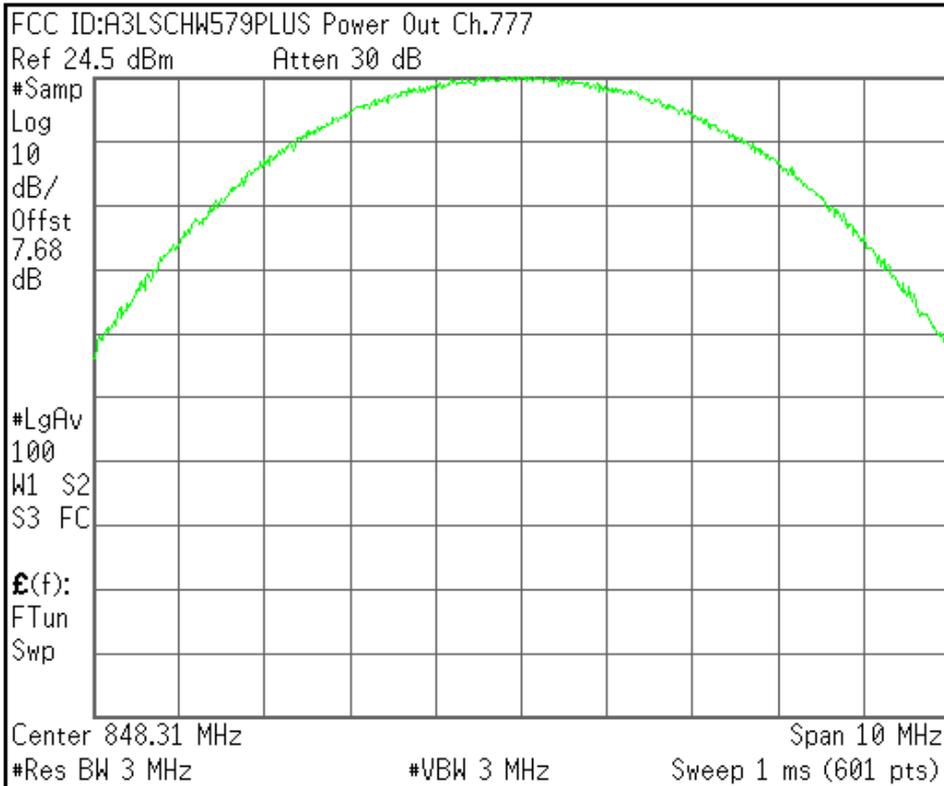
Center Freq 836.520000 MHz
Start Freq 831.520000 MHz
Stop Freq 841.520000 MHz
CF Step 1.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

Agilent

R T

Freq/Channel



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

Freq/Channel

Ch Freq 824.7 MHz **Trig** Free

Occupied Bandwidth

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

FCC ID:A3LSCHW579PLUS 0BW Ch.1013
Ref 24.5 dBm Atten 30 dB



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

Signal Track
On Off

Occupied Bandwidth 1.2626 MHz **Occ BW % Pwr** 99.00 %
x dB Bandwidth 1.381 MHz* **x dB** -26.00 dB

Transmit Freq Error 3.315 kHz

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

Agilent

R T

Freq/Channel

Ch Freq 836.52 MHz **Trig** Free

Occupied Bandwidth

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

FCC ID:A3LSCHW579PLUS 0BW Ch.384
Ref 24.5 dBm Atten 30 dB



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

Signal Track
On Off

Occupied Bandwidth 1.2613 MHz **Occ BW % Pwr** 99.00 %
x dB Bandwidth 1.389 MHz* **x dB** -26.00 dB

Transmit Freq Error 6.528 kHz

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

Agilent

R T

Freq/Channel

Ch Freq 848.31 MHz Trig Free

Occupied Bandwidth

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:A3LSCHW579PLUS 0BW Ch.777

Ref 24.5 dBm Atten 30 dB



Center 848.310 MHz Span 3 MHz
#Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)

Occupied Bandwidth 1.2423 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -2.852 kHz
x dB Bandwidth 1.388 MHz*

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

Agilent

R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Rx Spurious Emission Mkr1 889.00 MHz
Ref -50 dBm #Atten 0 dB -90.88 dBm

Center Freq
881.500000 MHz

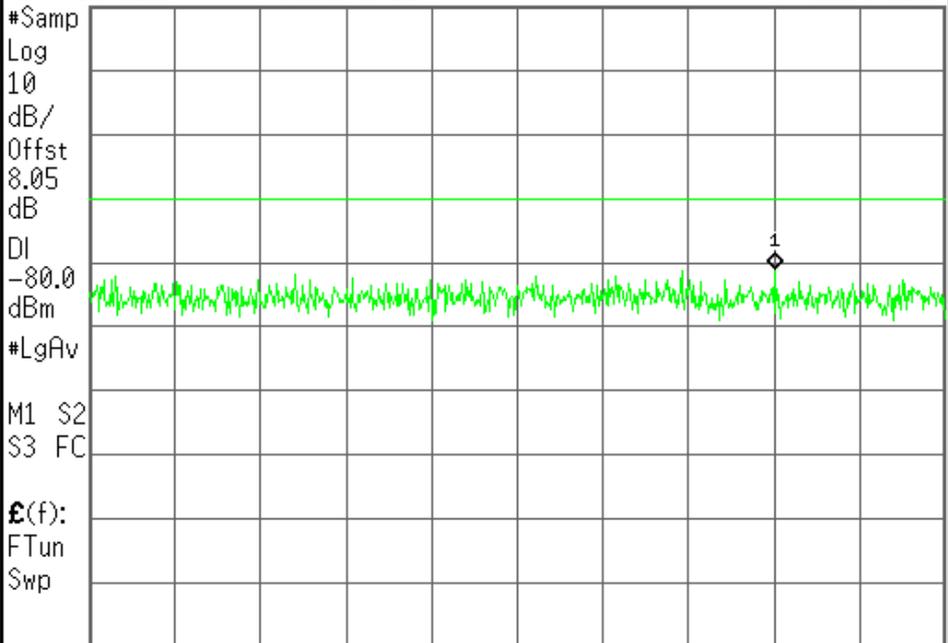
Start Freq
869.000000 MHz

Stop Freq
894.000000 MHz

CF Step
2.50000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off



Center 881.50 MHz Span 25 MHz
#Res BW 30 kHz #VBW 300 kHz #Sweep 1 s (601 pts)

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

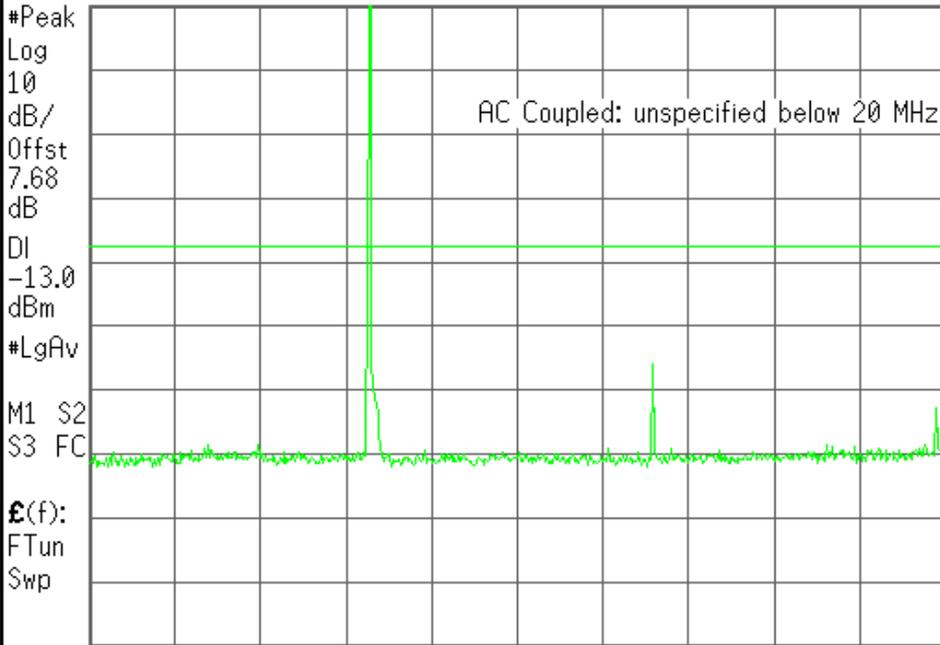
Agilent

R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.1013

Ref 24.5 dBm Atten 30 dB



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)

Invalid suffix

Agilent

R T

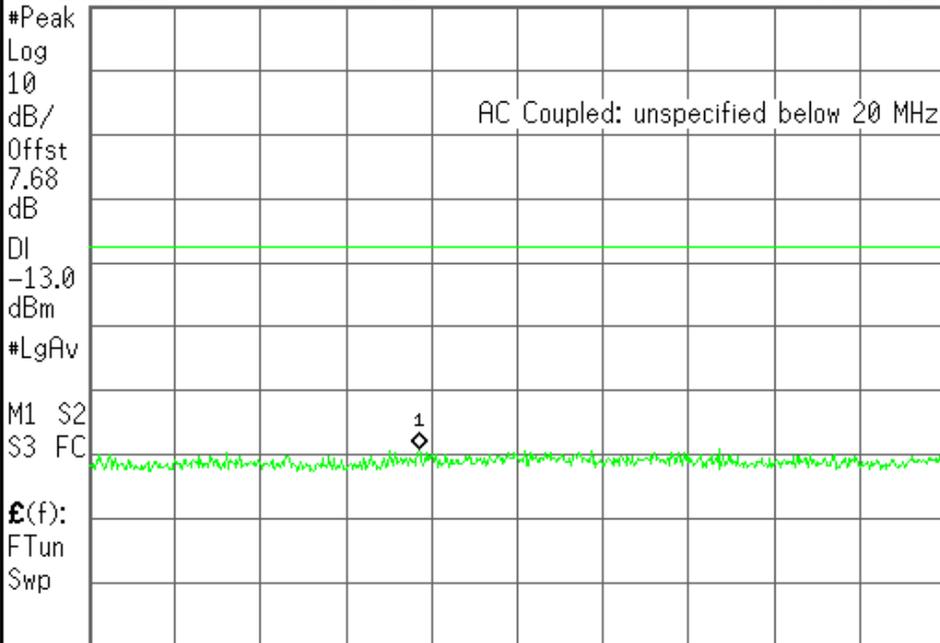
Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.1013

Mkr1 285.2 MHz

Ref 24.5 dBm Atten 30 dB

-44.53 dBm



Center Freq
367.350000 MHz

Start Freq
10.0000000 MHz

Stop Freq
724.700000 MHz

CF Step
71.4700000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

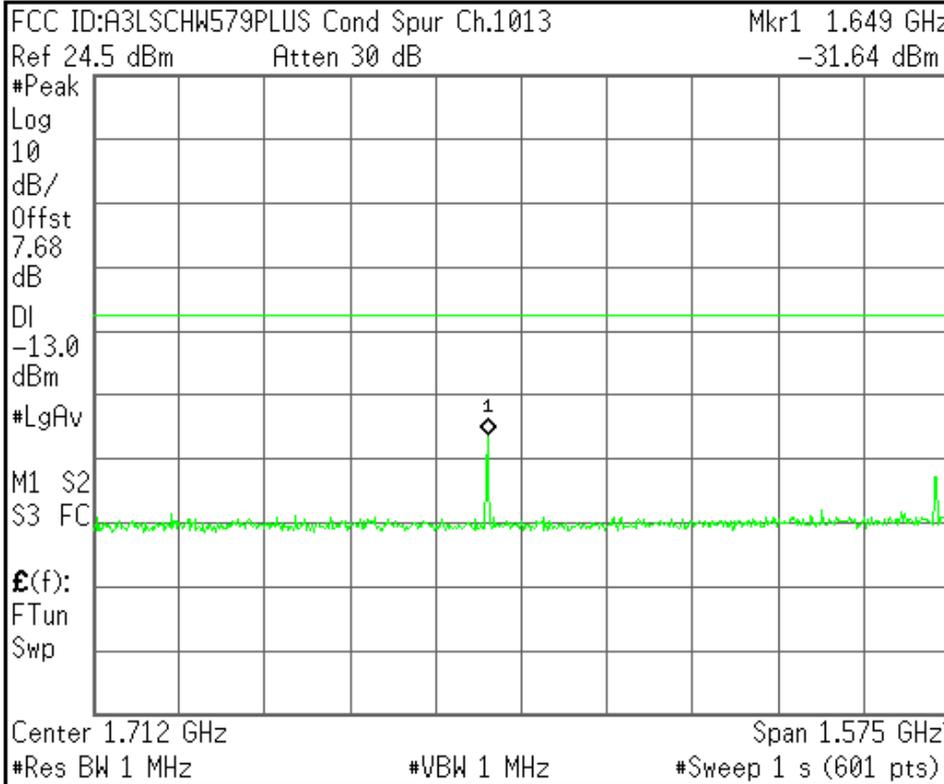
Center 367.4 MHz Span 714.7 MHz
#Res BW 1 MHz #VBW 1 MHz Sweep 1.2 ms (601 pts)

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

Agilent

R T

Freq/Channel



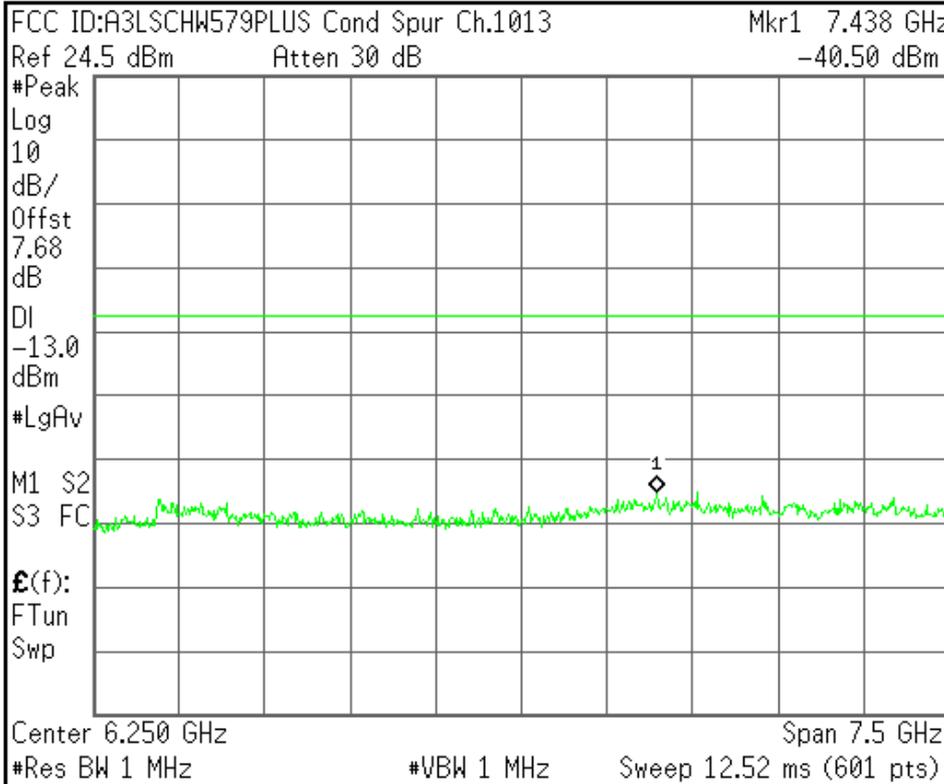
Center Freq 1.71235000 GHz
Start Freq 924.700000 MHz
Stop Freq 2.50000000 GHz
CF Step 157.530000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Suffix not allowed

Agilent

R 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

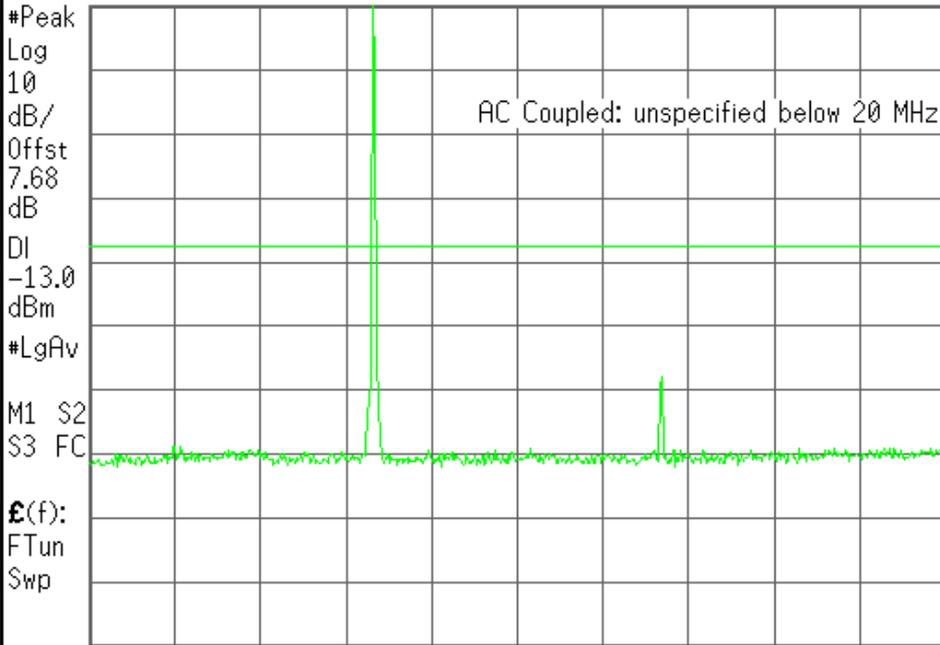
Agilent

R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.384

Ref 24.5 dBm Atten 30 dB



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

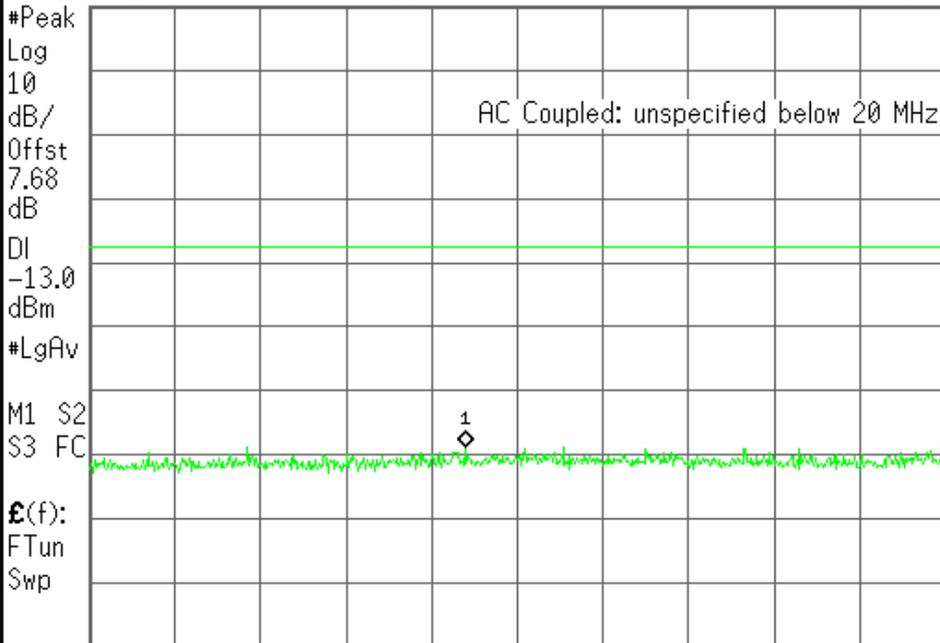
Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.384

Mkr1 328.5 MHz

Ref 24.5 dBm Atten 30 dB

-44.27 dBm



Center Freq
373.260000 MHz

Start Freq
10.00000000 MHz

Stop Freq
736.520000 MHz

CF Step
72.6520000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

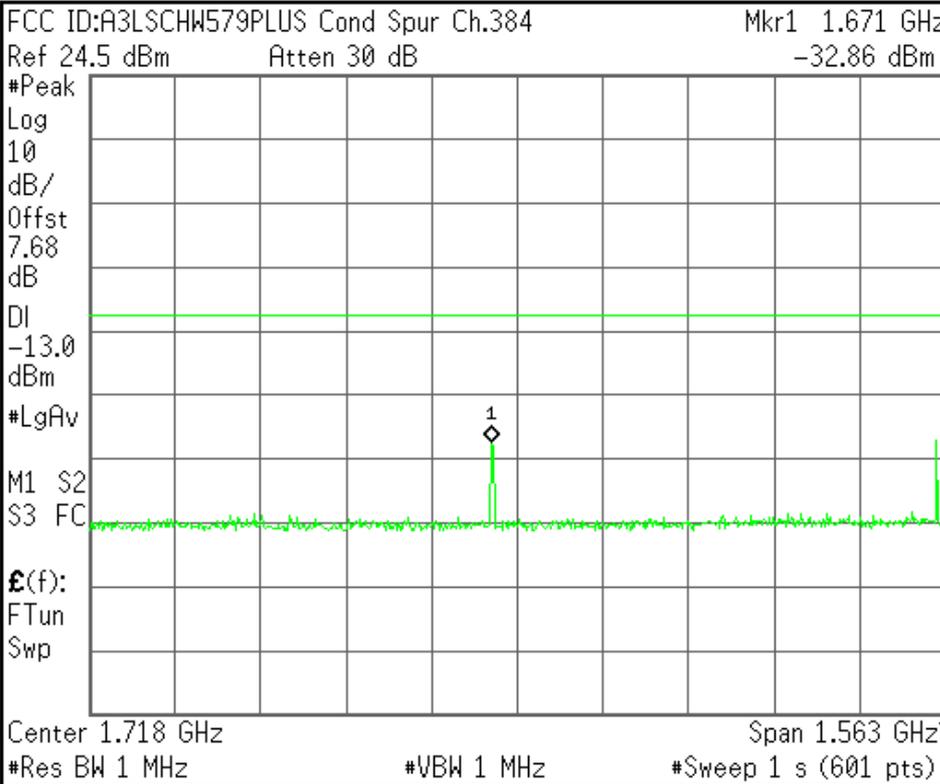
Center 373.3 MHz Span 726.5 MHz
#Res BW 1 MHz #VBW 1 MHz Sweep 1.24 ms (601 pts)

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

Agilent

R T

Freq/Channel



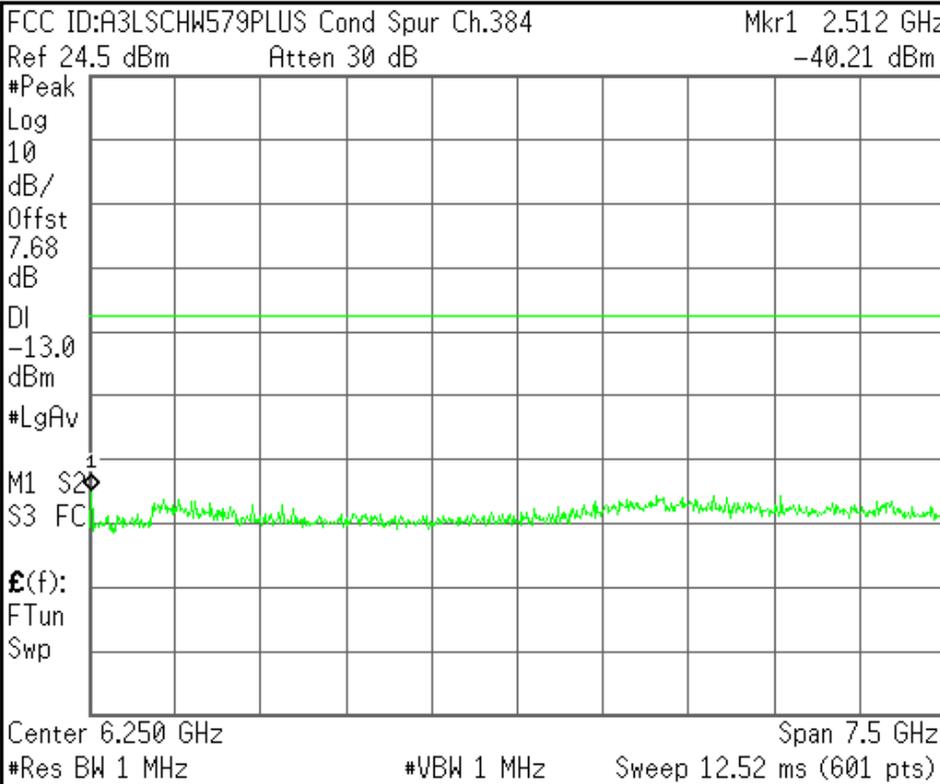
Center Freq 1.71826000 GHz
Start Freq 936.520000 MHz
Stop Freq 2.50000000 GHz
CF Step 156.348000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Suffix not allowed

Agilent

R T

Freq/Channel



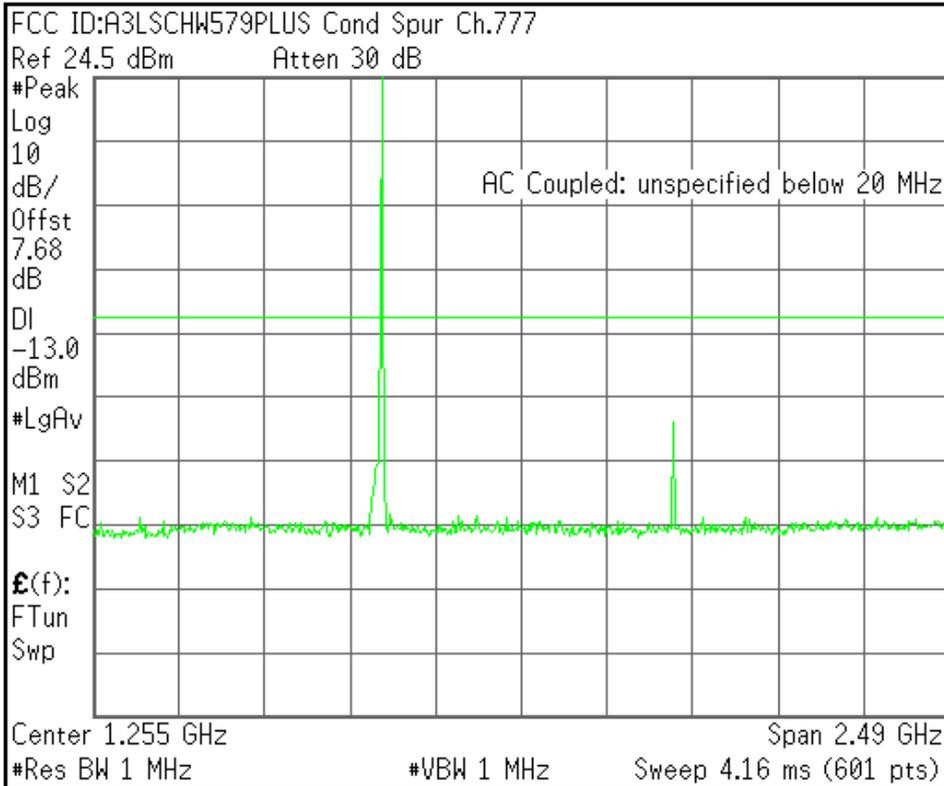
Center Freq 6.25000000 GHz
Start Freq 2.50000000 GHz
Stop Freq 10.00000000 GHz
CF Step 750.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

Agilent

R T

Freq/Channel



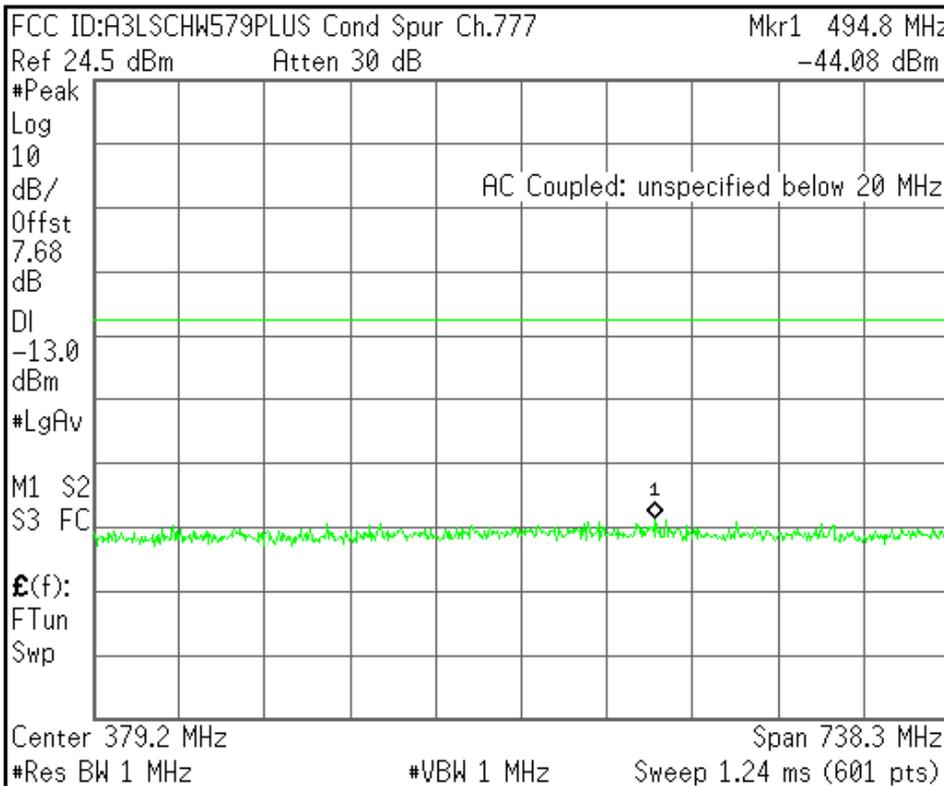
Center Freq	1.25500000 GHz
Start Freq	10.00000000 MHz
Stop Freq	2.50000000 GHz
CF Step	249.000000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

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

Agilent

R T

Freq/Channel



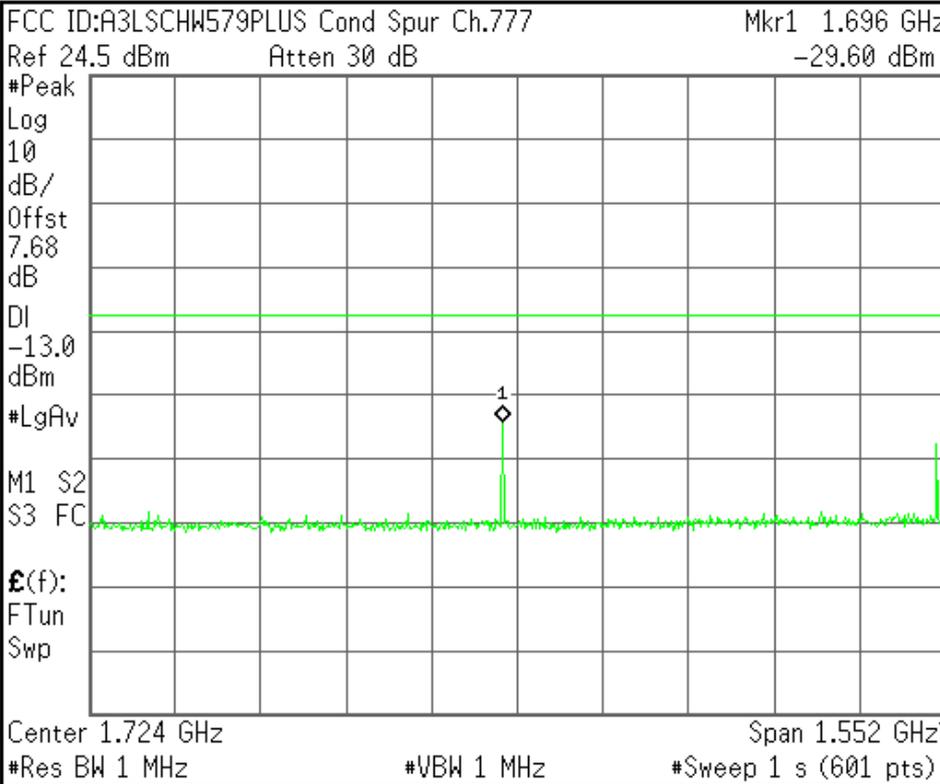
Center Freq	379.155000 MHz
Start Freq	10.00000000 MHz
Stop Freq	748.310000 MHz
CF Step	73.8310000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

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

Agilent

R T

Freq/Channel



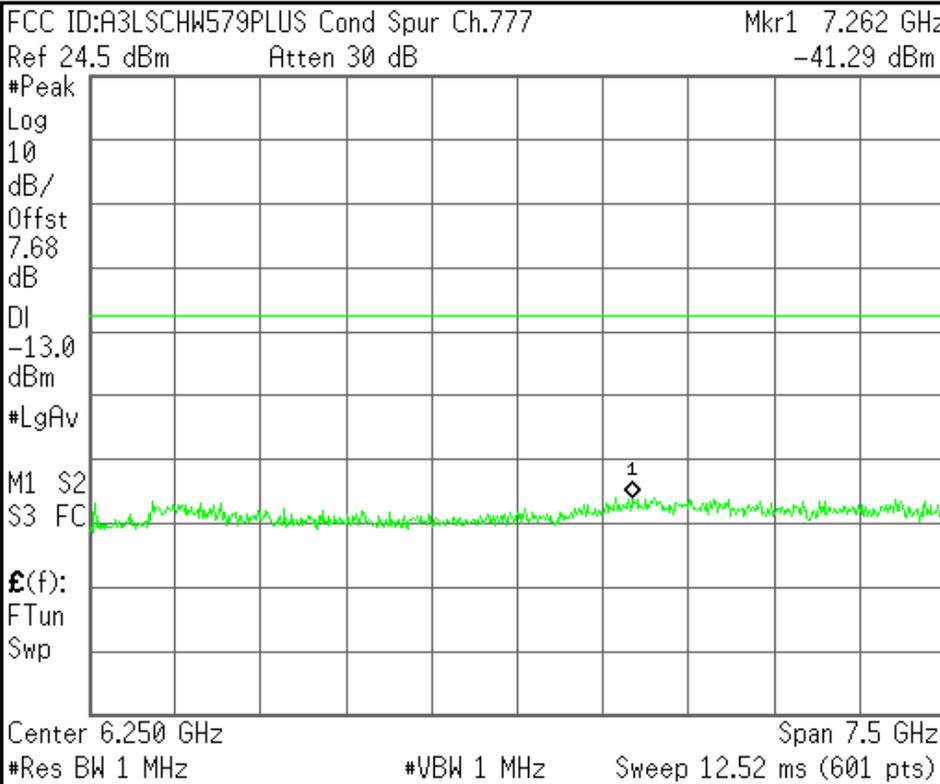
Center Freq 1.72415500 GHz
Start Freq 948.310000 MHz
Stop Freq 2.50000000 GHz
CF Step 155.169000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Suffix not allowed

Agilent

R T

Freq/Channel



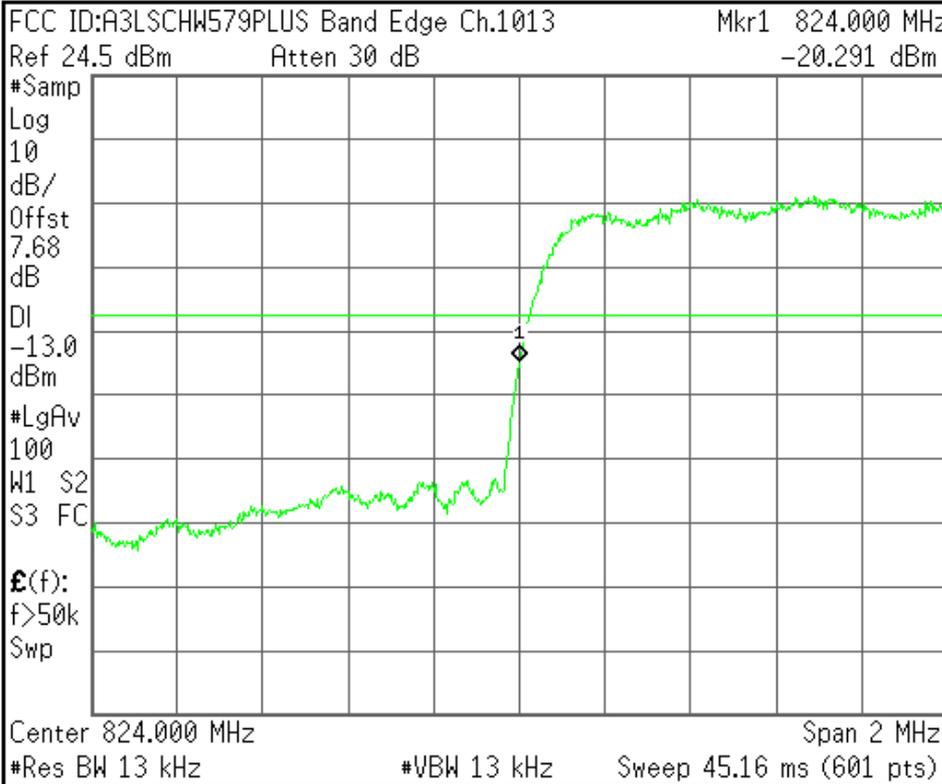
Center Freq 6.25000000 GHz
Start Freq 2.50000000 GHz
Stop Freq 10.00000000 GHz
CF Step 750.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

Agilent

R T

Freq/Channel



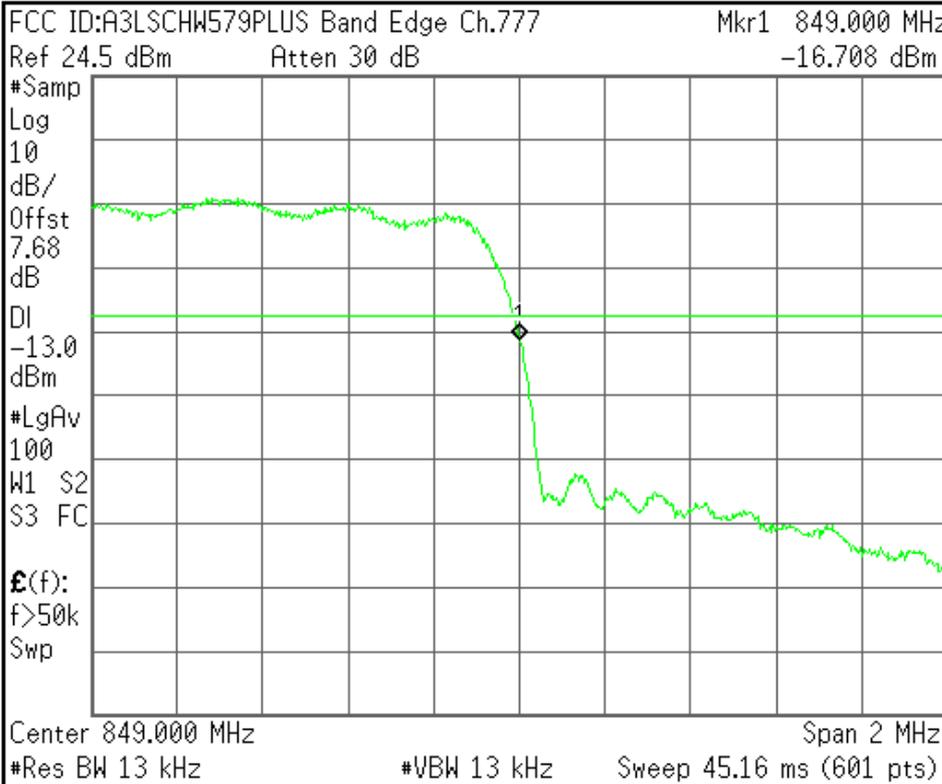
Center Freq 824.000000 MHz
Start Freq 823.000000 MHz
Stop Freq 825.000000 MHz
CF Step 200.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

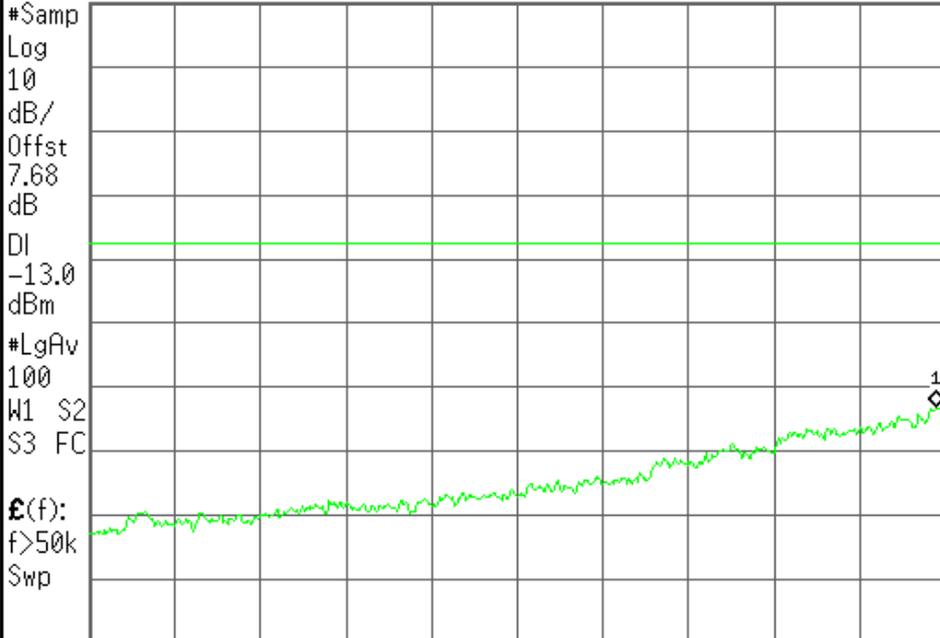
Agilent

R T

Freq/Channel

FCC ID:A3LSCHW579PLUS 4MHz Span Ch.1013 Mkr1 822.960 MHz

Ref 24.5 dBm Atten 30 dB -38.558 dBm



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

Center 821.000 MHz Span 4 MHz

#Res BW 100 kHz #VBW 100 kHz Sweep 1.56 ms (601 pts)

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

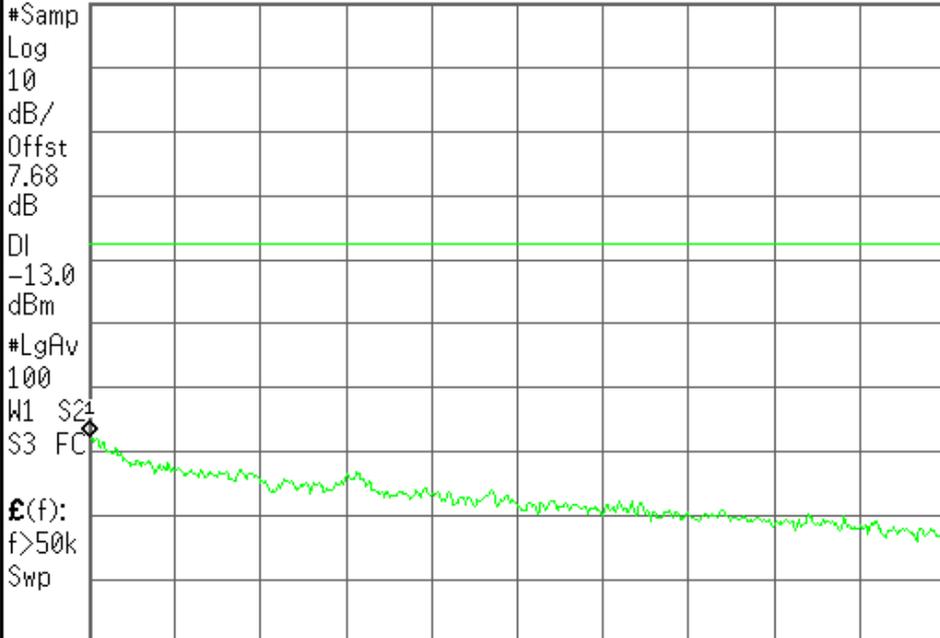
Agilent

R T

Freq/Channel

FCC ID:A3LSCHW579PLUS 4MHz Span Ch.777 Mkr1 850.000 MHz

Ref 24.5 dBm Atten 30 dB -43.251 dBm



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

Center 852.000 MHz Span 4 MHz

#Res BW 100 kHz #VBW 100 kHz Sweep 1.56 ms (601 pts)

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

Agilent

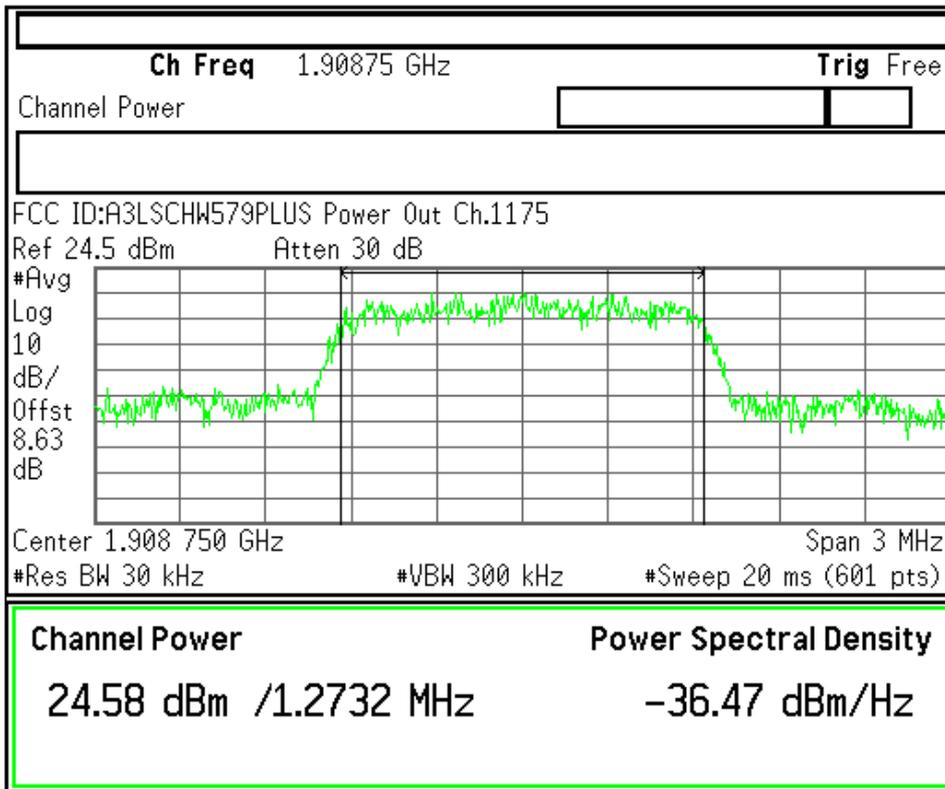
R T

<p>Ch Freq 1.85125 GHz Trig Free</p> <p>Channel Power <input type="text"/></p>		<p>Freq/Channel</p> <p>Center Freq 1.85125000 GHz</p> <p>Start Freq 1.84975000 GHz</p> <p>Stop Freq 1.85275000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>FCC ID:A3LSCHW579PLUS Power Out Ch.25 Ref 24.5 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 8.63 dB</p> <p>Center 1.851 250 GHz Span 3 MHz #Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)</p>		
<p>Channel Power 24.53 dBm /1.2483 MHz</p>	<p>Power Spectral Density -36.44 dBm/Hz</p>	
<p>File Operation Status, C:\TEMP.GIF file saved</p>		

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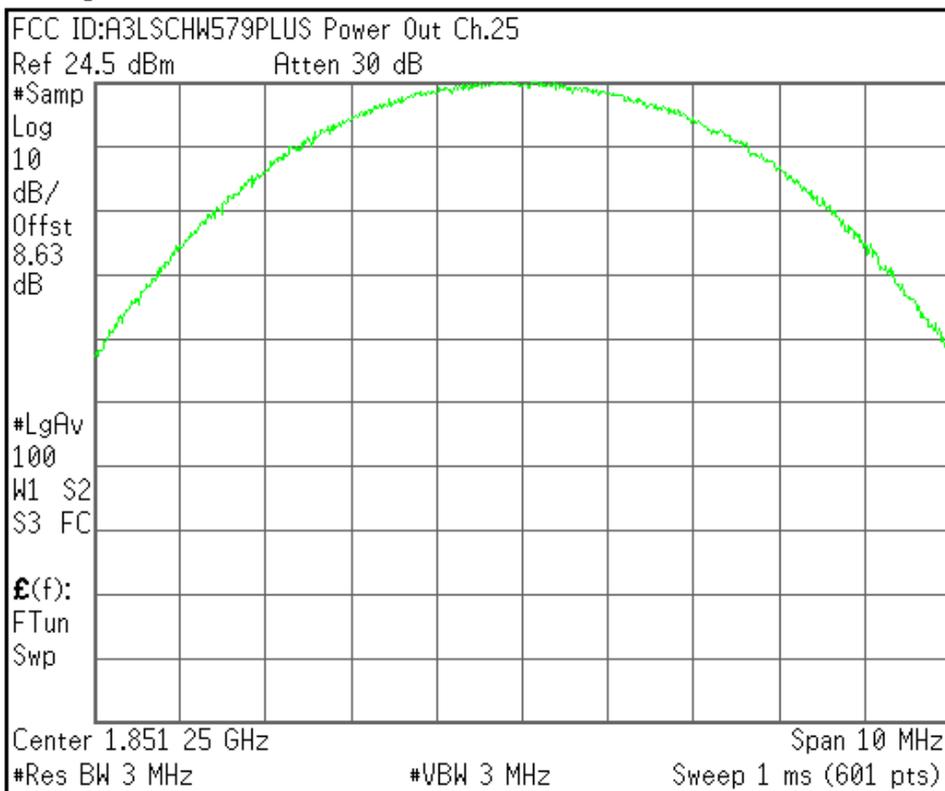
R T

<p>Ch Freq 1.88 GHz Trig Free</p> <p>Channel Power <input type="text"/></p>		<p>Freq/Channel</p> <p>Center Freq 1.88000000 GHz</p> <p>Start Freq 1.87850000 GHz</p> <p>Stop Freq 1.88150000 GHz</p> <p>CF Step 300.000000 kHz Auto Man</p> <p>Freq Offset 0.00000000 Hz</p> <p>Signal Track On Off</p>
<p>FCC ID:A3LSCHW579PLUS Power Out Ch.600 Ref 24.5 dBm Atten 30 dB</p> <p>#Avg Log 10 dB/ Offst 8.63 dB</p> <p>Center 1.880 000 GHz Span 3 MHz #Res BW 30 kHz #VBW 300 kHz #Sweep 20 ms (601 pts)</p>		
<p>Channel Power 24.62 dBm /1.2599 MHz</p>	<p>Power Spectral Density -36.39 dBm/Hz</p>	
<p>File Operation Status, C:\TEMP.GIF file saved</p>		



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

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



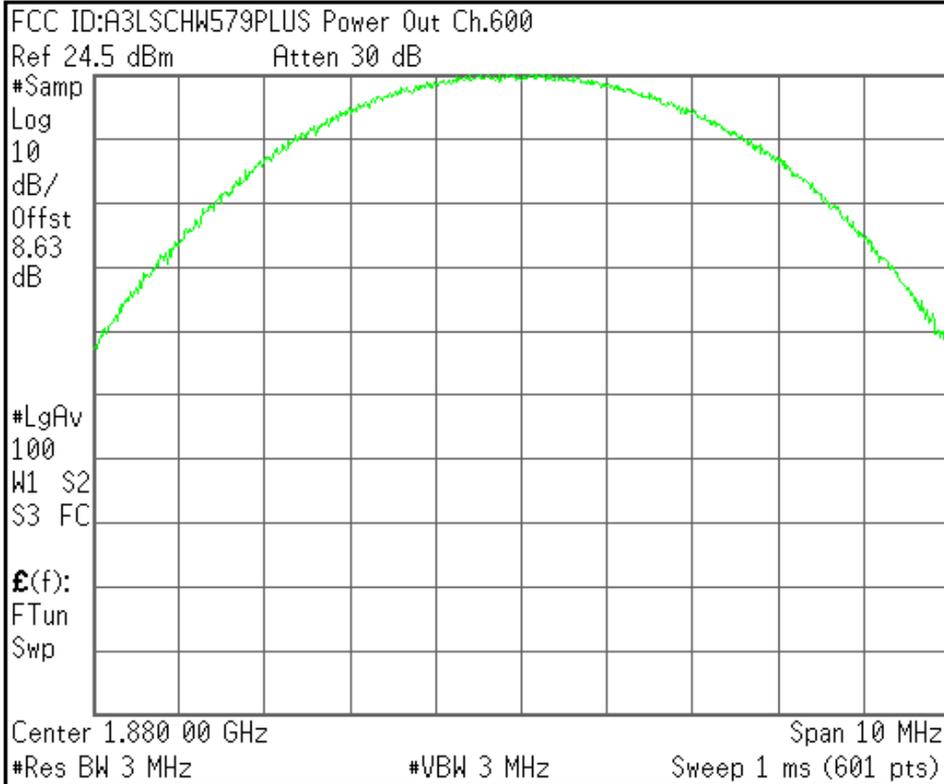
Freq/Channel
Center Freq 1.85125000 GHz
Start Freq 1.84625000 GHz
Stop Freq 1.85625000 GHz
CF Step 1.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

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R T

Freq/Channel



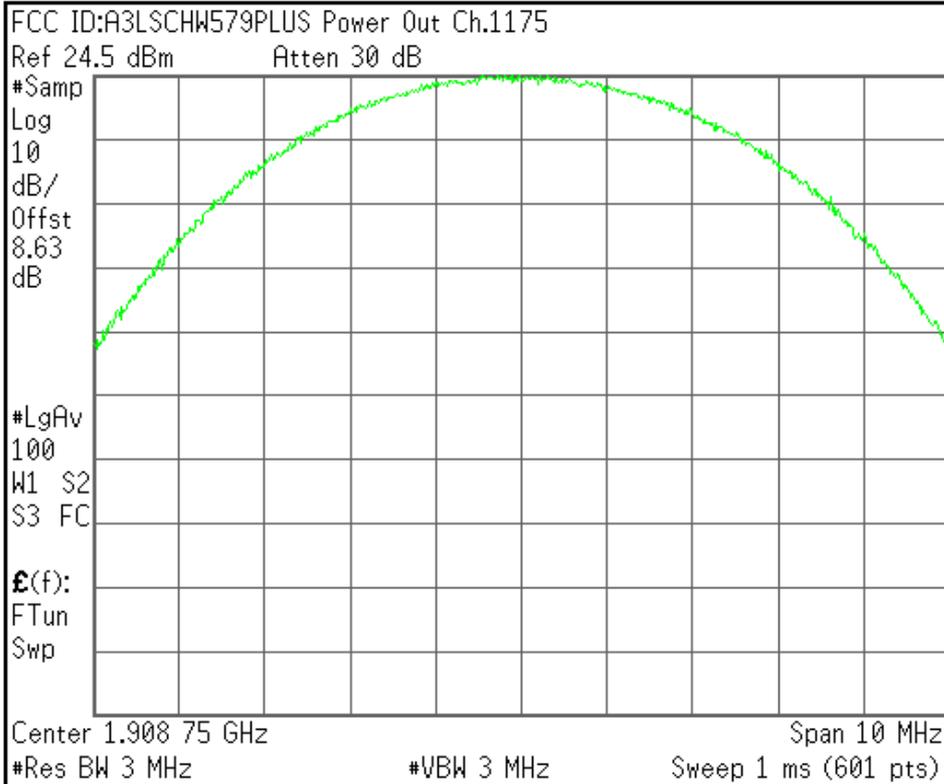
Center Freq 1.88000000 GHz
Start Freq 1.87500000 GHz
Stop Freq 1.88500000 GHz
CF Step 1.00000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

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Freq/Channel



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

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

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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:A3LSCHW579PLUS 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 1.2483 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -1.147 kHz
x dB Bandwidth 1.414 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

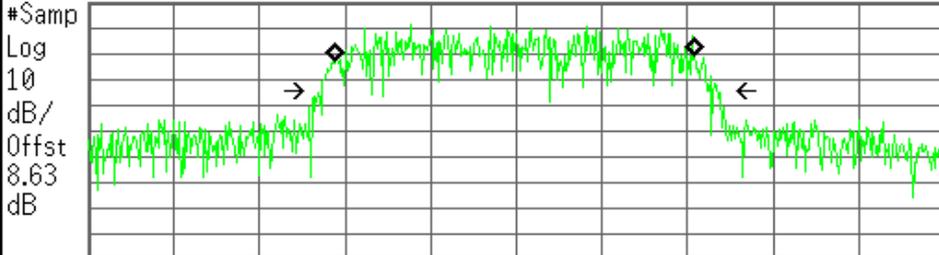
Stop Freq
1.88150000 GHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

FCC ID:A3LSCHW579PLUS 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 1.2599 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB

Transmit Freq Error -4.473 kHz
x dB Bandwidth 1.386 MHz*

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

Ch Freq 1.90875 GHz		Trig Free	
Occupied Bandwidth		<input type="text"/>	
FCC ID:A3LSCHW579PLUS 0BW Ch.1175 Ref 24.5 dBm Atten 30 dB			
#Samp Log 10 dB/ Offst 8.63 dB			
Center 1.908 750 GHz		Span 3 MHz	
#Res BW 30 kHz		#VBW 300 kHz #Sweep 20 ms (601 pts)	
Occupied Bandwidth 1.2732 MHz		Occ BW % Pwr 99.00 % x dB -26.00 dB	
Transmit Freq Error -2.640 kHz			
x dB Bandwidth 1.379 MHz*			
File Operation Status, C:\TEMP.GIF file saved			

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

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R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.25

Ref 24.5 dBm Atten 30 dB

#Peak

Log

10

dB/

Offst

8.63

dB

DI

-13.0

dBm

#LgAv

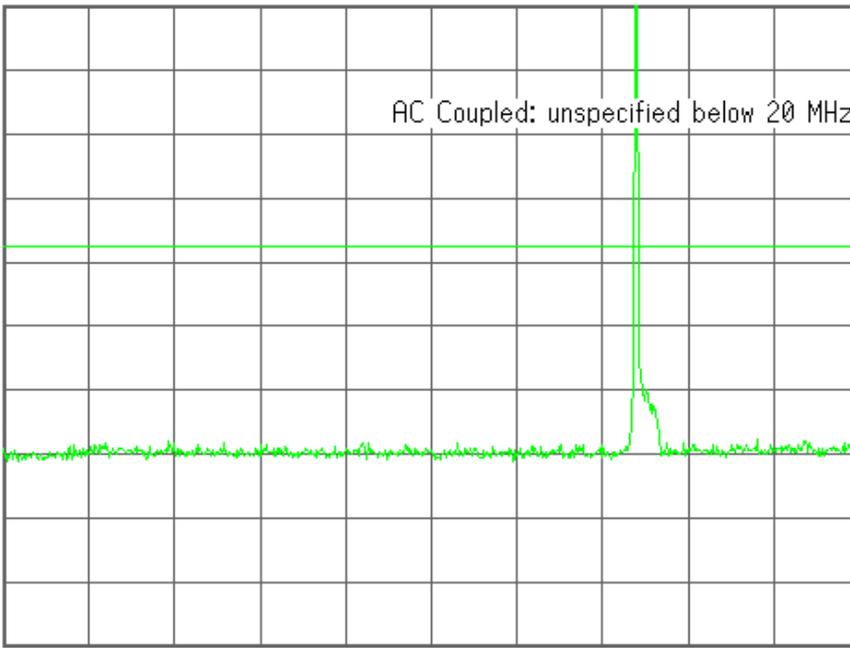
M1 S2

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)

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

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R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.25

Mkr1 1.571 GHz

Ref 24.5 dBm Atten 30 dB

-42.87 dBm

#Peak

Log

10

dB/

Offst

8.63

dB

DI

-13.0

dBm

#LgAv

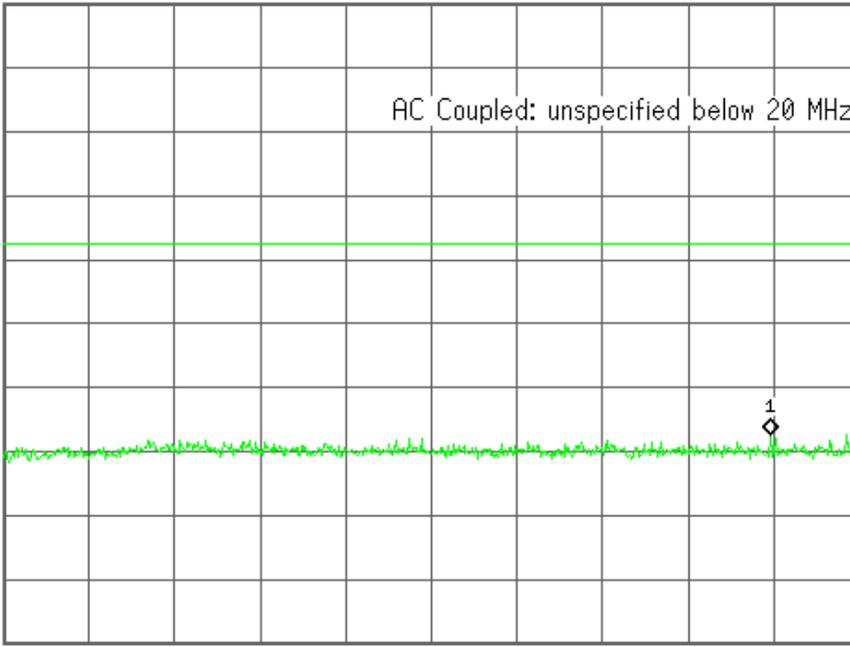
M1 S2

S3 FC

$\mathcal{E}(f)$:

FTun

Swp



Center 881 MHz

Span 1.741 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 2.92 ms (601 pts)

Center Freq
880.625000 MHz

Start Freq
10.00000000 MHz

Stop Freq
1.75125000 GHz

CF Step
174.125000 MHz
Auto Man

Freq Offset
0.00000000 Hz

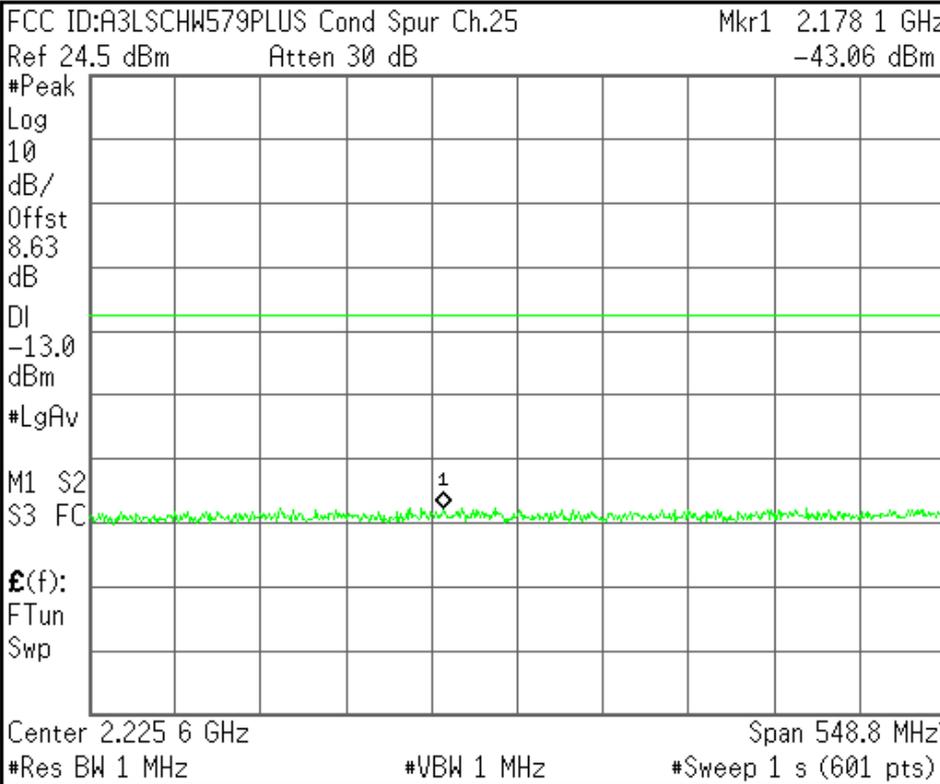
Signal Track
On Off

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

Agilent

R T

Freq/Channel



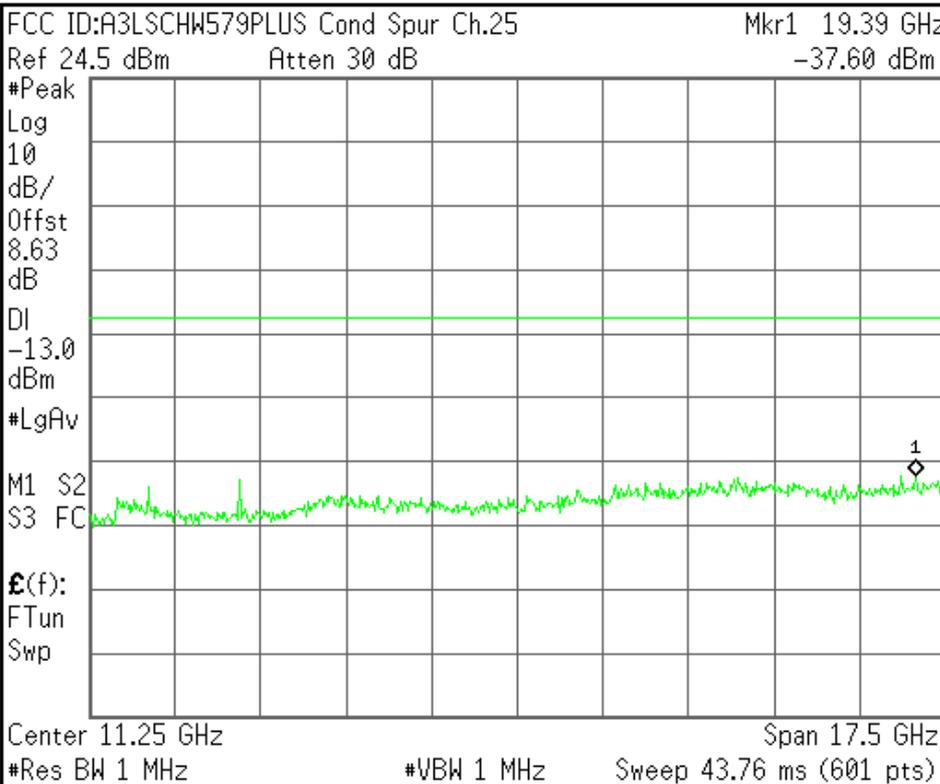
Center Freq 2.22562500 GHz
Start Freq 1.95125000 GHz
Stop Freq 2.50000000 GHz
CF Step 54.8750000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Suffix not allowed

Agilent

R T

Freq/Channel



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

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

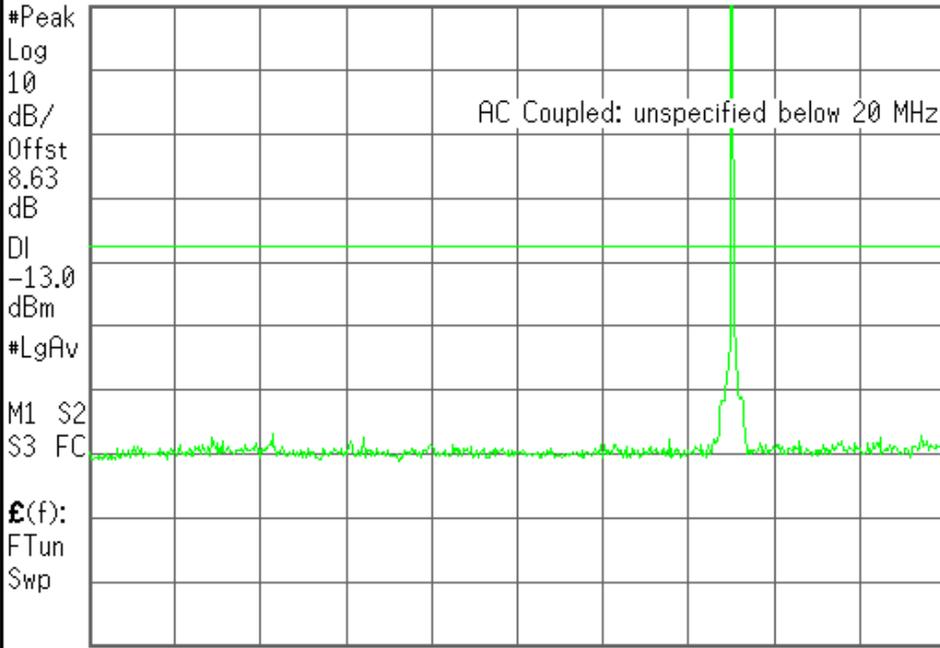
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R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.600

Ref 24.5 dBm Atten 30 dB



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

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R T

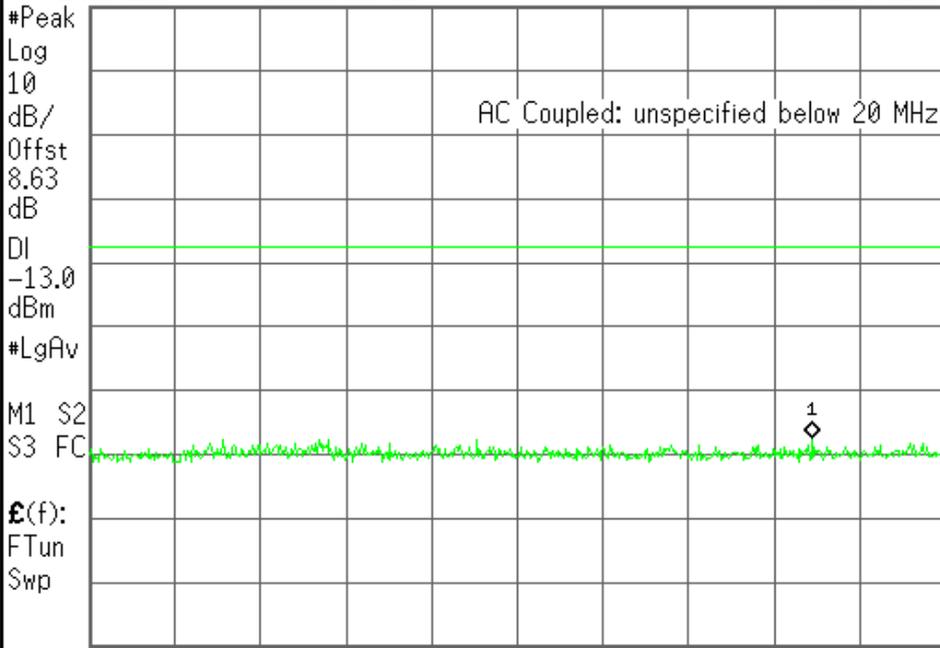
Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.600

Mkr1 1.506 GHz

Ref 24.5 dBm Atten 30 dB

-42.96 dBm



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

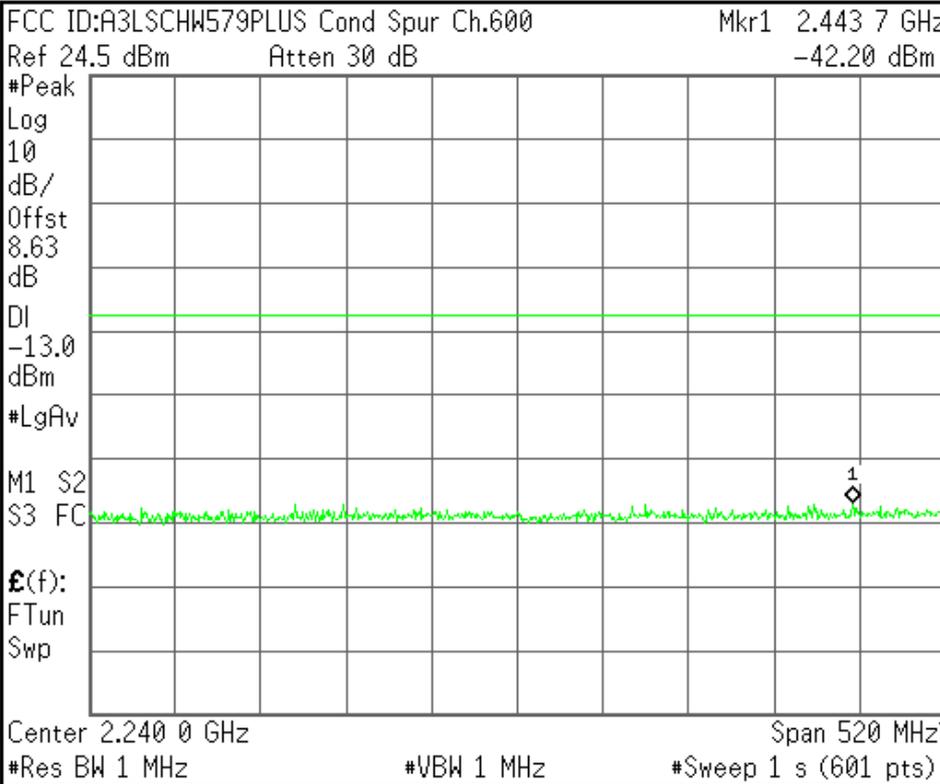
Signal Track
On Off

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

Agilent

R T

Freq/Channel



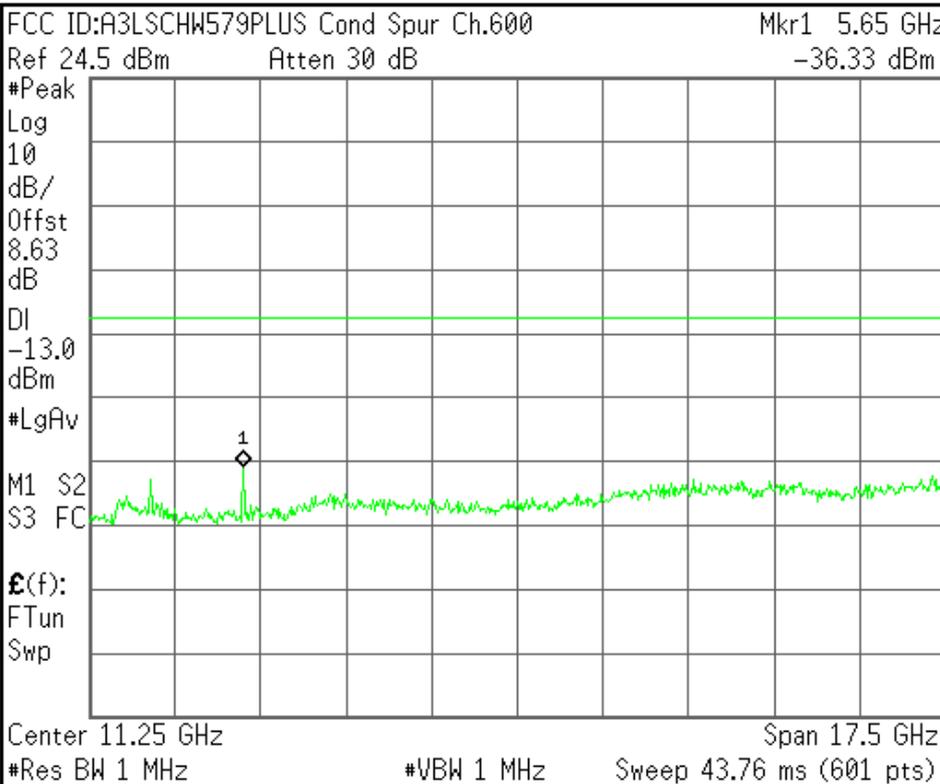
Center Freq 2.24000000 GHz
Start Freq 1.98000000 GHz
Stop Freq 2.50000000 GHz
CF Step 52.0000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Suffix not allowed

Agilent

R T

Freq/Channel



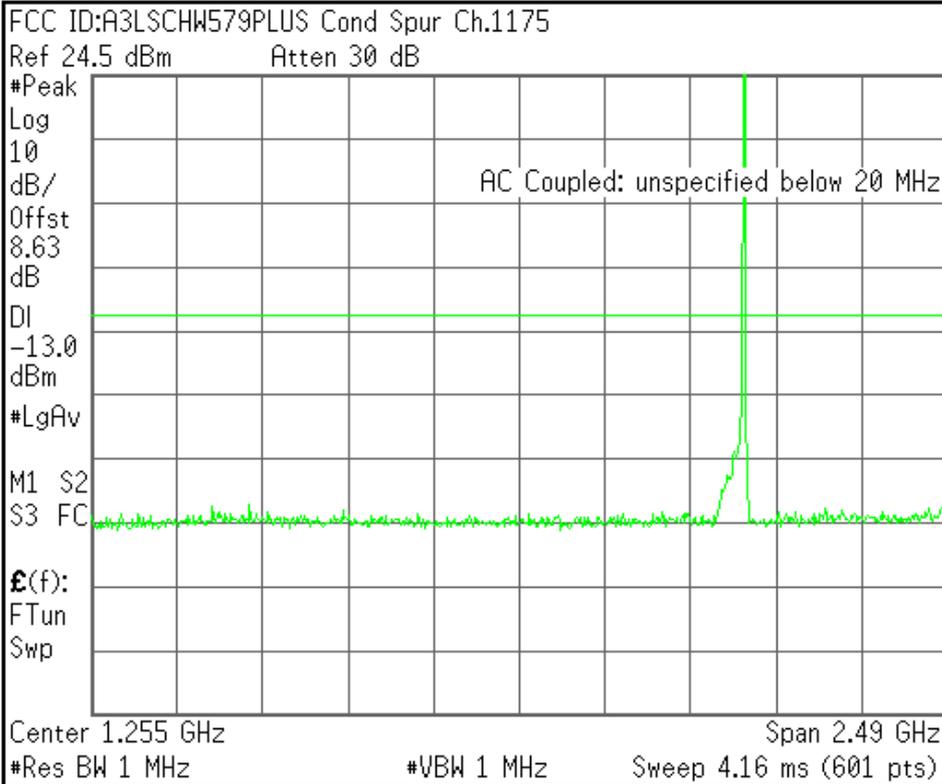
Center Freq 11.2500000 GHz
Start Freq 2.50000000 GHz
Stop Freq 20.0000000 GHz
CF Step 1.75000000 GHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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

Agilent

R T

Freq/Channel



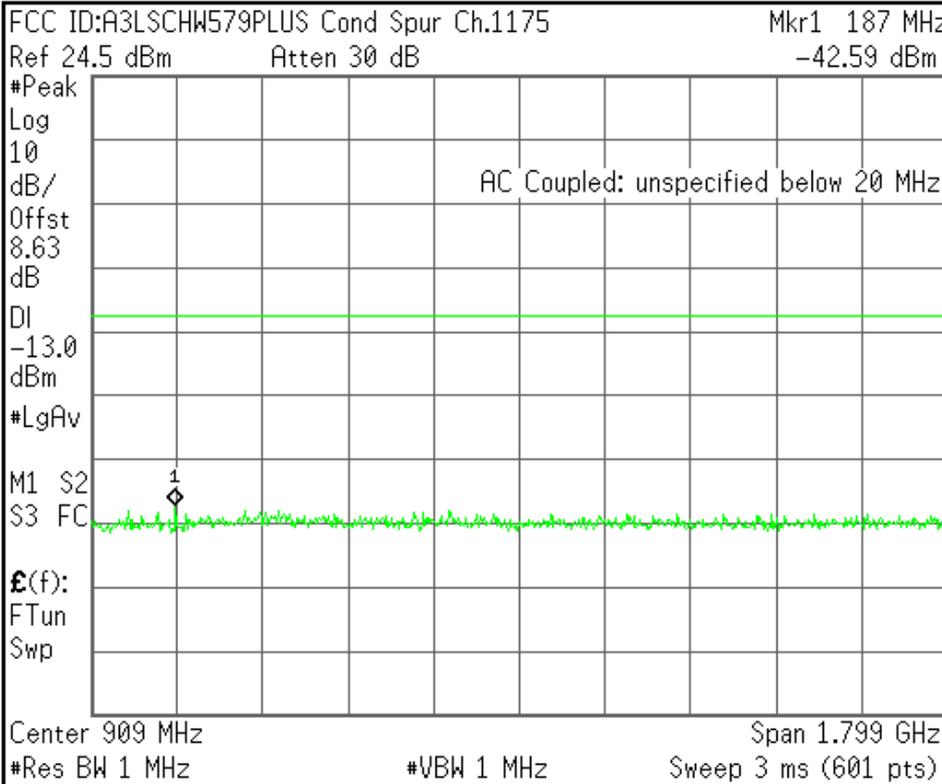
Center Freq	1.25500000 GHz
Start Freq	10.00000000 MHz
Stop Freq	2.50000000 GHz
CF Step	249.0000000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

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

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R T

Freq/Channel



Center Freq	909.375000 MHz
Start Freq	10.00000000 MHz
Stop Freq	1.80875000 GHz
CF Step	179.875000 MHz Auto Man
Freq Offset	0.00000000 Hz
Signal Track	On Off

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

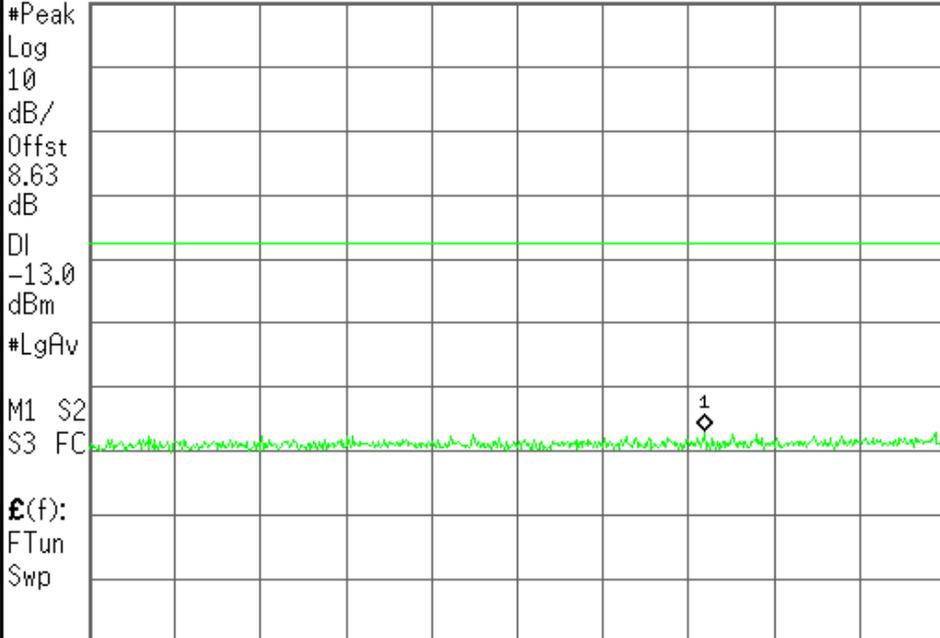
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Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.1175 Mkr1 2.361 6 GHz

Ref 24.5 dBm Atten 30 dB -42.40 dBm



Center Freq
2.25437500 GHz

Start Freq
2.00875000 GHz

Stop Freq
2.50000000 GHz

CF Step
49.1250000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 2.254 4 GHz Span 491.2 MHz

#Res BW 1 MHz #VBW 1 MHz #Sweep 1 s (601 pts)

Suffix not allowed

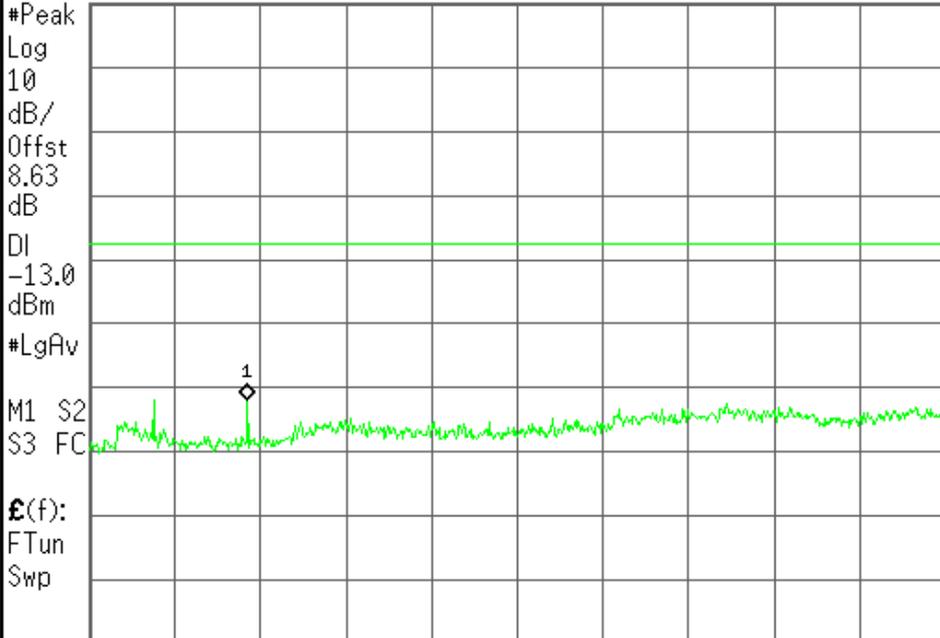
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R T

Freq/Channel

FCC ID:A3LSCHW579PLUS Cond Spur Ch.1175 Mkr1 5.74 GHz

Ref 24.5 dBm Atten 30 dB -37.47 dBm



Center Freq
11.2500000 GHz

Start Freq
2.50000000 GHz

Stop Freq
20.00000000 GHz

CF Step
1.75000000 GHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 11.25 GHz Span 17.5 GHz

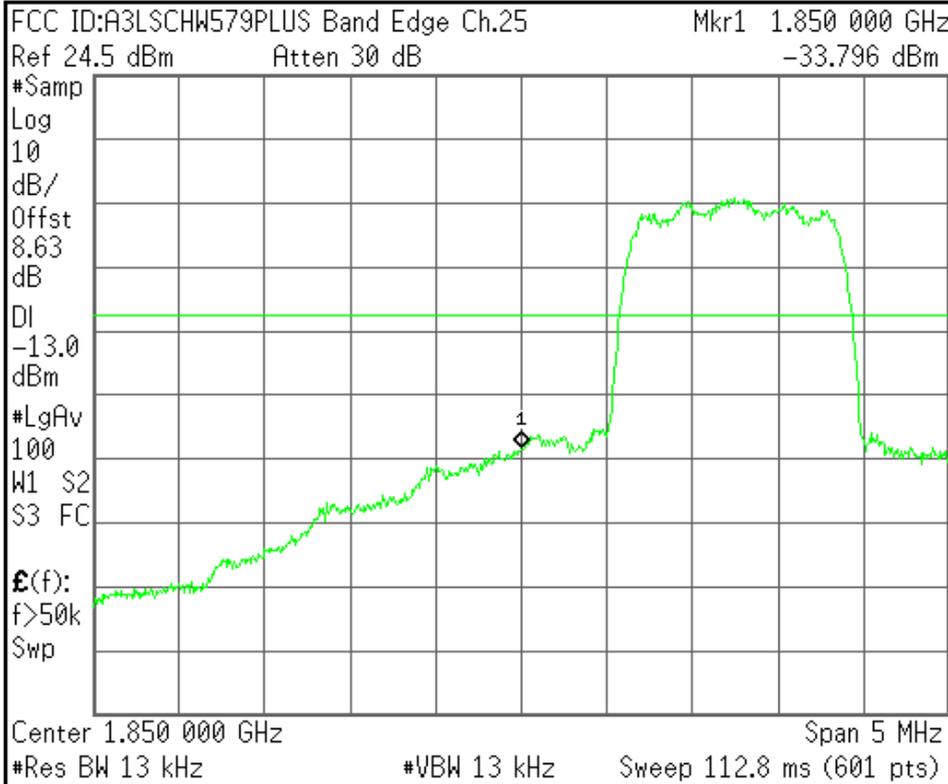
#Res BW 1 MHz #VBW 1 MHz Sweep 43.76 ms (601 pts)

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

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R T

Freq/Channel



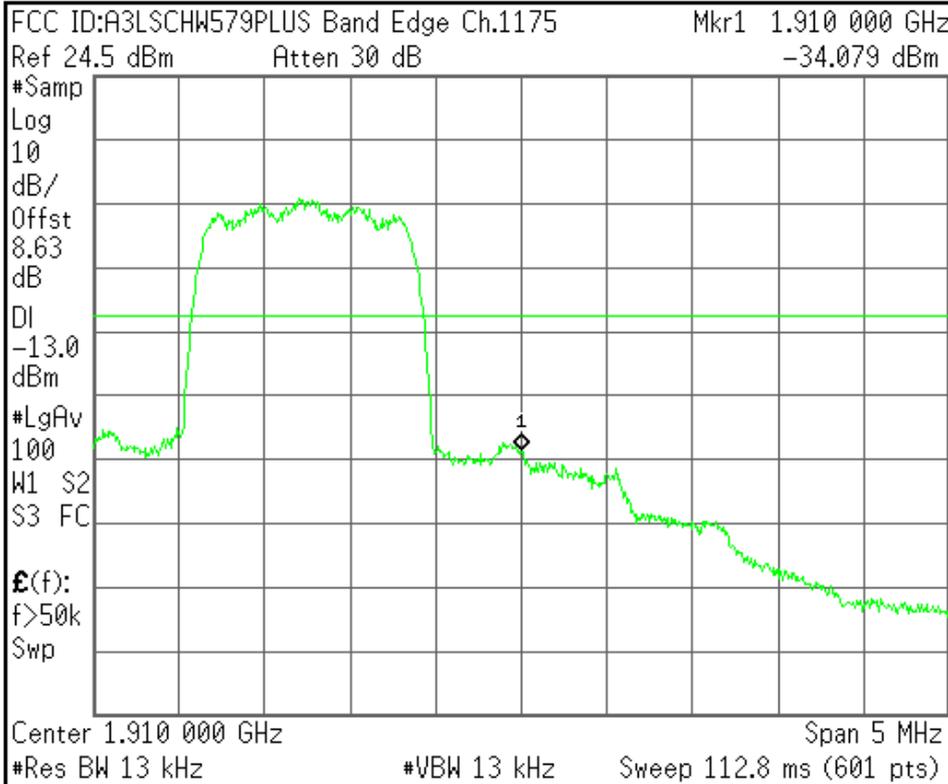
Center Freq 1.85000000 GHz
Start Freq 1.84750000 GHz
Stop Freq 1.85250000 GHz
CF Step 500.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Invalid suffix

Agilent

R T

Freq/Channel



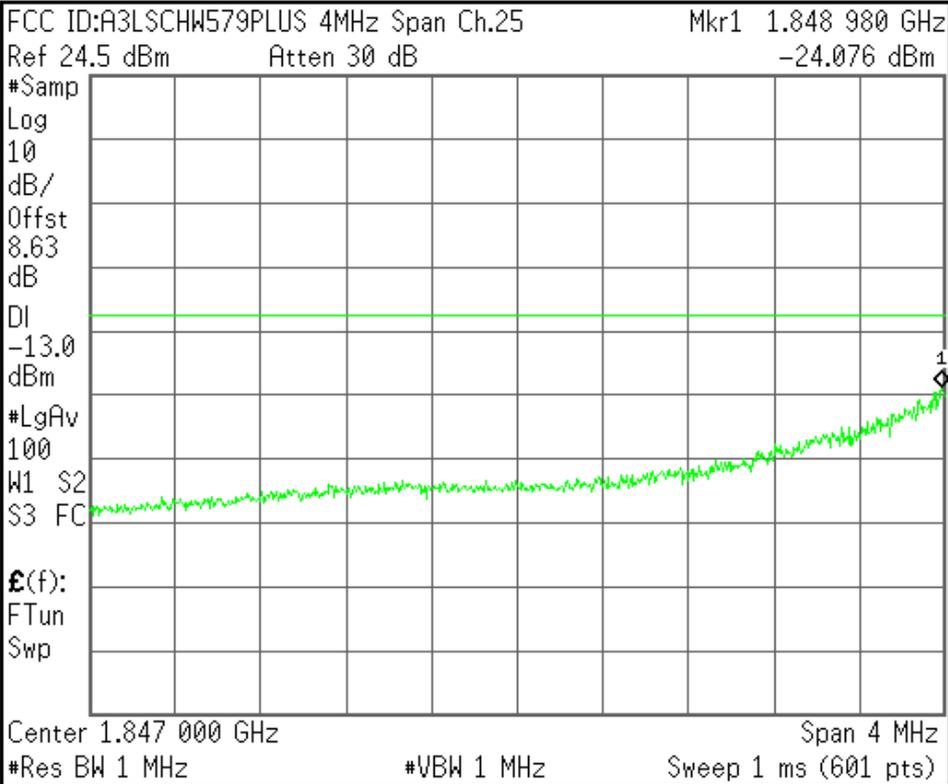
Center Freq 1.91000000 GHz
Start Freq 1.90750000 GHz
Stop Freq 1.91250000 GHz
CF Step 500.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

Invalid suffix

Agilent

R T

Freq/Channel



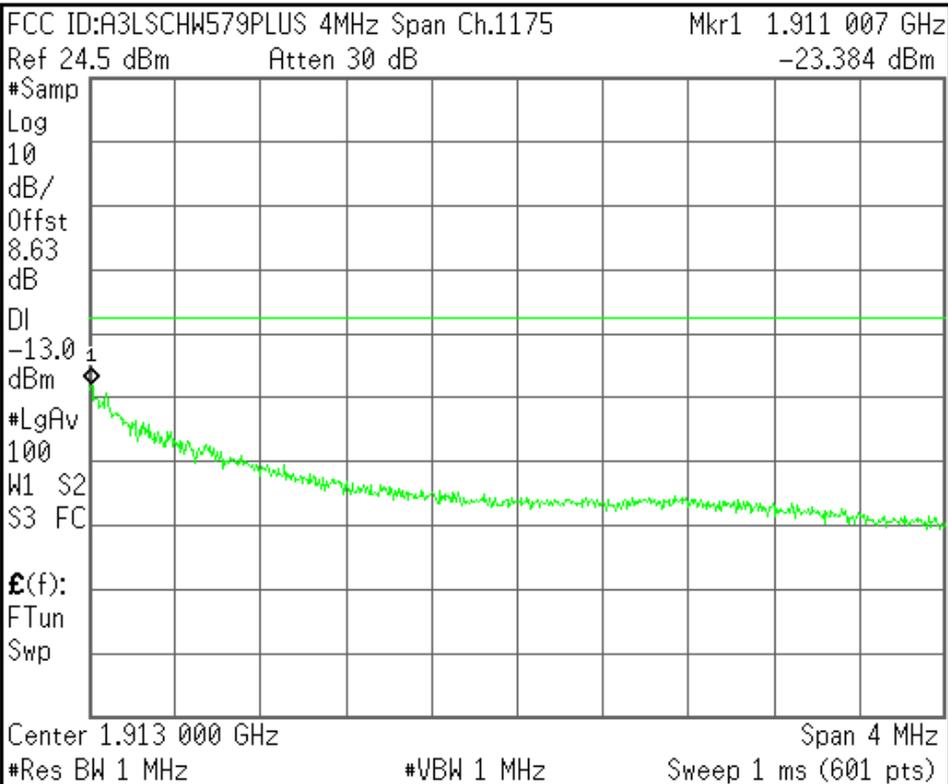
Center Freq 1.84700000 GHz
Start Freq 1.84500000 GHz
Stop Freq 1.84900000 GHz
CF Step 400.000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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R T

Freq/Channel



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

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