



SAMSUNG ELECTRONICS Co., Ltd.,
Regulatory Compliance Group
IT R&D Center
416, Maetan-3Dong,
Youngtong-Gu, Suwon-city,
Gyeonggi-Do, Korea 442-600

FCC CFR47 PART 24 SUBPART CERTIFICATION REPORT

Model Tested: SGH-S341I
FCC ID (Requested): A3LSGHS341I
Report No: FB-029-R1
Job No: FB-029
Date issued: June 11, 2004

- Abstract -

All measurement reported herein accordance with FCC Rules, 47CFR Part2, Part24.




Prepared By		Date	2004.06.11
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Checked By		Date	2004.06.11
	_____ JH CHOI - Engineer		_____
Authorized By		Date	2004.06.11
	_____ JK CHOI – Senior Manager		_____



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MEASUREMENT REPORT

1. FCC Certification Information

The following information is in accordance with FCC Rules, 47CFR Part 2, Subpart J, Sections 2.1033 – 2.1055.

1.1 §2.1033 General Information

- Applicant Name: SAMSUNG ELECTRONICS CO., LTD.
- Address: 416, Youngtong-3Dong, Youngtong-Gu, Suwon City
Gyeonggi-Do, KOREA 442-600

- Attention: Wallace Oh, Engineering Manager (QA Lab)

- FCC ID: A3LSGHS341I

- Quantity: Quantity production is planned
- Emission Designators: 250KGXW
- Tx Freq. Range: 1850.2MHz -1909.8MHz
- Rx Freq. Range: 1930.2MHz – 1989.8MHz
- Max. Power Rating: 1.589W EIRP GSM1900 (32.01 dBm)
- FCC Classification(s): Licensed Portable Tx Held to Ear (PCE)
- Equipment (EUT) Type: Single modulation GSM1900/PCS Phone
- Frequency Tolerance: $\pm 0.00025\%$ (2.5ppm)
- FCC Rule Part(s): §24(E), §2.
- Dates of Test: June.1, 5-8, 2004
- Place of Test: SAMSUNG Lab,
- Test Report S/N: FB-029-R1

- End of page -

2. INTRODUCTION

2.1 General

These measurement test were conducted at **SAMSUNG ELECTRONICS CO., LTD(SUWON)**. The site address is 416, Maetan-3Dong, Youngtong-Gu, Suwon City, Gyeonggi-Do, KOREA 442-600 The site have 1 Fully-anechoic chamber and measurement facility.

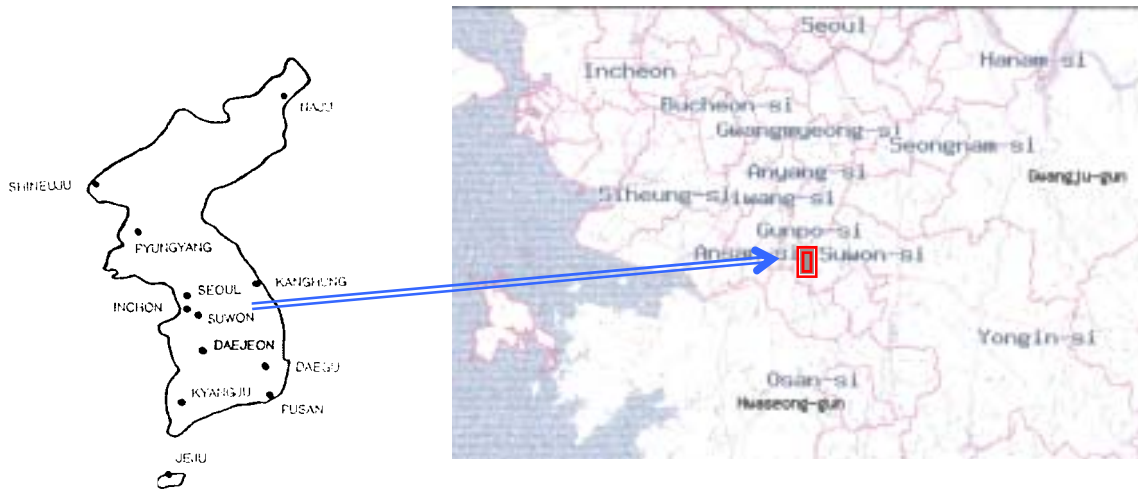


Figure1. Map of the Suwon City area.

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 Non-conducted 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.

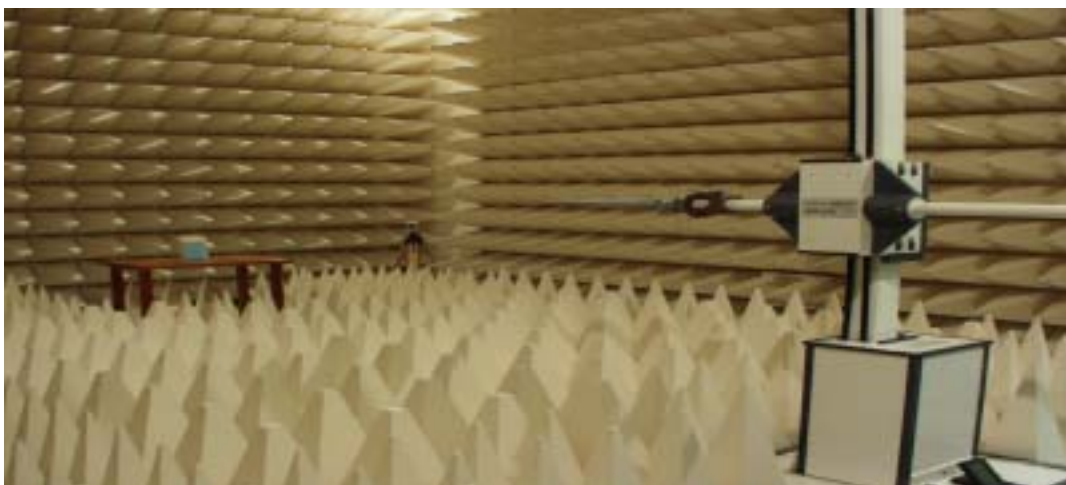


Figure2. Photograph of 3m Fully-Anechoic Chamber



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	ESI26	836119/010	2004-09-15
	E4440A(3Hz~26.5GHz)	MY41000236	2004-11-07
	E4440A(3Hz~26.5GHz)	MY41000233	2004-11-14
Signal Generator	SMIQ03B	83824/021	2005-01-15
	SMR20	835197/030	2005-01-15
Power Meter	E4419B	GB41293846	2004-10-02
Power Sensor	8481B	3318A10325	2004-10-06
	8485A	3318A19924	2004-10-04
Amplifier	5S1G4	304866	2004-11-17
Pre-Amplifier	8449B	3008A00691	2005-01-16
Communication test set	8960	GB42230535	2004-11-17
	8960	GB42360886	2004-11-10
Antenna Master	MA0001	ANT0967	Not Required
Controller	HD100	100/756	Not Required
Environmental Chamber	PL-4S	13005454	2004-08-22
	SH-241	92000548	2004-12-04
	SH-241	92000549	2004-12-04
Horn Antenna	HF906	360306/011	2005-03-11
	HF906	100134	2005-05-02
Dipole Antenna	3121C-DB4	9007-587	2004-10-21
Receive Antenna	HL040	353255/019	2004-07-14
Attenuator	8494A	3308A31997	2005-01-17
	8496A	3308A14426	2005-01-17
Directional Coupler	4278-311-2	B3679637	2005-01-14
	4278-111-2	B103DC8722	2005-01-14
High Pass Filter	WHK1.0/15G-10SS	1	Not Required
	WHK1.0/15G-10SS	1	Not Required
	WHK/3.5/18G-10SS	3	Not Required
	WHK/3.5/18G-10SS	4	Not Required
Shielded Semi-Anechoic Chamber	RF0002	ANT0001	Not Required

5. DESCRIPTION OF TESTS

5.1 Equivalent Isotropic Radiated Power

Test Set-up for the EIRP TEST

Effective Radiated Power Output and Equivalent Isotropic Radiated Power Measurements by Substitution Method according to ANSI/TIA/EIA-603-A-2001, Aug. 15, 2001:

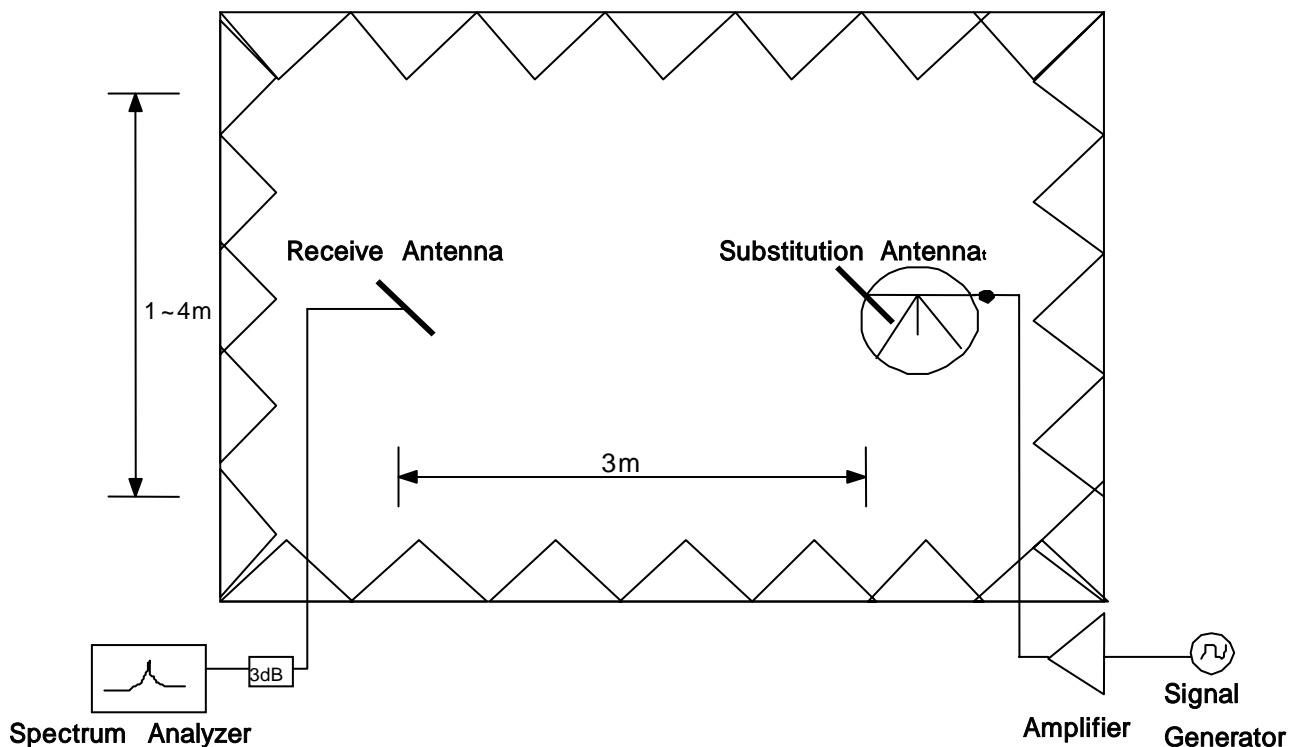


Figure 3. Diagram of ERP/EIRP test Set-up

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 GSM signals, an average detector is used, with RBW=VBW=3MHz, SPAN=10MHz. A Horn antenna (for readings above 1GHz) was substituted in place of the EUT. This Horn 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 Horn is measured. The EIRP is recorded. Between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

5.2 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-A-2001, Aug. 15, 2001

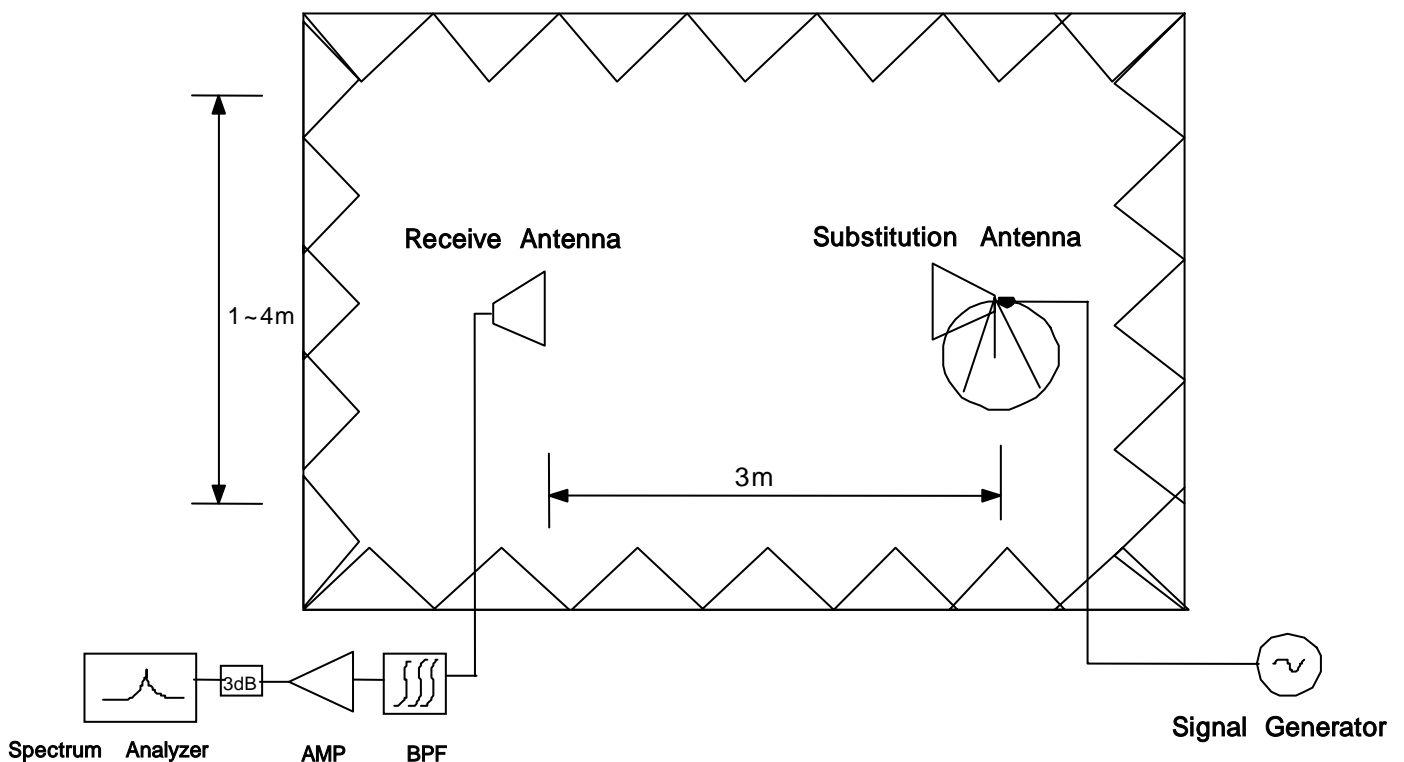


Figure 4. Diagram of Radiated Spurious & Harmonic test Set-up

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 Horn antenna was substituted in place of the EUT. This Horn 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. Between the gain of the horn and an isotropic or dipole antenna are taken into consideration.



SAMPLE CALCULATION

Example: Channel 661 , Second Harmonic(3760.00MHz)

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 3760.00MHz . 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 -

5.3 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.

5.4 Spurious and Harmonic Emissions at Antenna Terminal

5.4.1 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

5.4.2 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 -13dBm, calculation shown below.

$$43 + 10\log(1.589 \text{ W}) = 45.01 \text{ dB}$$

$$32.01\text{dBm} - 45.01 \text{ dB} = -13 \text{ dBm}$$

Compliance with the out-of-band emissions requirement is based on test being performed with an analyzer resolution bandwidth of 1MHz. However in the 1MHz band immediately outside and adjacent to the frequency block a resolution bandwidth of at least 1% of the fundamental emissions bandwidth may be employed.

In case of GSM : $0.01 * 273\text{KHz} = 2.73\text{KHz}$
 A Resolution BW of 3KHz was used for measurement at the band edges.



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 -13dBm 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 20GHz. A display line was placed at -13dBm to show compliance. The high, lowest and a middle channel were tested for out of band measurements.

Plots are shown herein.

- End of page -

5.5 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 ± 0.0001 (± 1 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room
2. temperature(25°C to 27°C to provide a reference).
3. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
4. 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.
5. 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.
6. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
7. Frequency measurements are at 10 intervals starting at 30°C up to +50°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.
8. 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 Equivalent Isotropic Radiated Power (E.I.R.P.)

Supply Voltage : 3.7VDC

Modulation : PCS 1900

Reference level

Frequency (MHz)	Output (dBm)	Polarization	S/A (dBm)	Ant gain (dBi)	Ref level (dBm)
1880.00	27.00	H	-12.83	7.99	-20.82
		V	-12.77	7.99	-20.76

Result

Frequency (MHz)	From EUT Tested level (dBm)	Polarization (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-16.04	H2	135	31.78	1.507	Standard
1880.00	-16.22	H2	137	31.60	1.445	Standard
1909.80	-15.81	H2	135	32.01	1.589	Standard

Radiated measurements at 3 meters by Substitution Method

6.2 Radiated Spurious & Harmonic measurement

Field Strength of SPURIOUS Radiation

Operating Frequency : 1850.2 MHz(Low), 1880.00 MHz(Middle), 1909.80 MHz(High)

Measured Output Power : 32.01 dBm = 1.589 W

Modulation Signal : GSM1900

Limit : $43 + 10\log_{10}(P) = 45.01$ dBc

Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
512	2	3700.40	-60.34	H2	69.05
	3	5550.60	-63.42	H1	68.03
	4	7400.80	-68.25	H2	68.37
	5	9251.00	-67.74	V	63.56
	6	11101.20	-	-	-
	7	12951.40	-	-	-
	8	14801.60	-	-	-
661	2	3760.00	-60.18	H2	69.91
	3	5640.00	-64.05	H2	68.88
	4	7520.00	-67.16	H2	67.03
	5	9400.00	-68.02	H1	64.00
	6	11280.00	-	-	-
	7	13160.00	-	-	-
	8	15040.00	-	-	-
810	2	3819.60	-58.66	H2	68.11
	3	5729.40	-64.62	H1	67.85
	4	7639.20	-67.18	H1	67.37
	5	9549.00	-68.15	V	63.02
	6	11458.80	-	-	-
	7	13368.60	-	-	-
	8	15278.40	-	-	-

Radiated Spurious Emission measurements at 3 meters by Substitution Method



6.3 Radiated Spurious & Harmonic Conversion Table

Date : 2004 . 06 . 05 .

Test Engineer : SY KIM

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)
512	2	3700.40	11.22	8.77	7.55	-60.34	-64.35	-50.80	-36.43	69.05	72.28
	3	5550.60	14.62	10.26	5.64	-63.42	-64.63	-36.02	-37.86	68.03	69.87
	4	7400.80	16.81	10.51	3.70	-68.25	-68.17	-36.36	-37.71	68.37	69.72
	5	9251.00	19.24	11.67	2.43	-68.22	-67.74	-32.04	-31.55	64.05	63.56
	6	11101.20	21.43	13.19	1.76	-	-	-	-	-	-
	7	12951.40	24.17	12.90	-1.27	-	-	-	-	-	-
	8	14801.60	26.63	14.34	-2.29	-	-	-	-	-	-
661	2	3760.00	11.63	8.77	7.14	-60.18	-63.20	-37.90	-40.04	69.91	72.05
	3	5640.00	14.19	10.26	6.07	-64.05	-64.83	-36.87	-37.53	68.88	69.54
	4	7520.00	17.08	10.51	3.43	-67.16	-67.70	-35.02	-36.83	67.03	68.84
	5	9400.00	19.39	11.67	2.28	-68.02	-68.09	-31.99	-32.28	64.00	64.29
	6	11280.00	21.38	13.19	1.81	-	-	-	-	-	-
	7	13160.00	24.36	12.90	-1.46	-	-	-	-	-	-
	8	15040.00	27.30	14.34	-2.96	-	-	-	-	-	-
810	2	3819.60	11.64	8.77	7.13	-58.66	-60.12	-36.10	-36.97	68.11	68.98
	3	5729.40	14.55	10.26	5.71	-64.62	-65.99	-35.84	-37.33	67.85	69.34
	4	7639.20	17.33	10.51	3.18	-67.18	-67.58	-35.36	-36.78	67.37	68.79
	5	9549.00	19.73	11.67	1.94	-68.25	-68.15	-31.25	-31.01	63.26	63.02
	6	11458.80	21.76	13.19	1.43	-	-	-	-	-	-
	7	13368.60	24.68	12.90	-1.78	-	-	-	-	-	-
	8	15278.40	27.60	14.34	-3.26	-	-	-	-	-	-



6.4 Frequency Stability

6.4.1 Frequency Stability Table

Operating Frequency : 1,880,000,000 Hz

Channel : 661

Reference Voltage : 3.7VDC

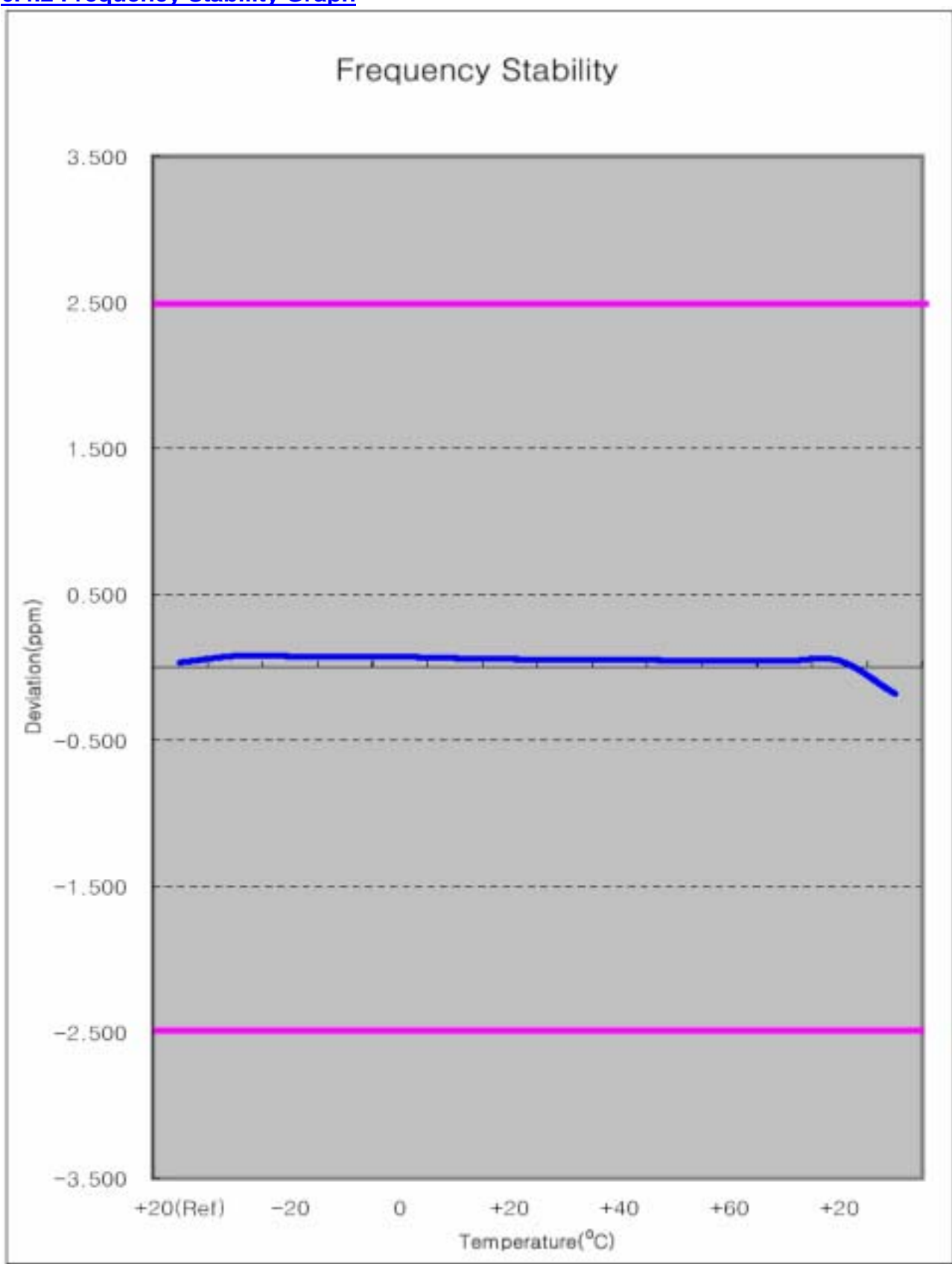
Deviation Limit : ± 0.00025 % or 2.5ppm

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency Error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	63	1,880,000,063	0.000003	0.034
100%		-30	147	1,880,000,147	0.000008	0.078
100%		-20	144	1,880,000,144	0.000008	0.077
100%		-10	145	1,880,000,145	0.000008	0.077
100%		0	137	1,880,000,137	0.000007	0.073
100%		+10	119	1,880,000,119	0.000006	0.063
100%		+20	107	1,880,000,107	0.000006	0.057
100%		+30	102	1,880,000,102	0.000005	0.054
100%		+40	96	1,880,000,096	0.000005	0.051
100%		+50	92	1,880,000,092	0.000005	0.049
100%		+60	83	1,880,000,083	0.000004	0.044
85%	3.15	+20	81	1,880,000,081	0.000004	0.043
115%	4.26	+20	86	1,880,000,086	0.000005	0.046
Batt.Endpoint	2.70	+20	-338	1,879,999,662	-0.000018	-0.180

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

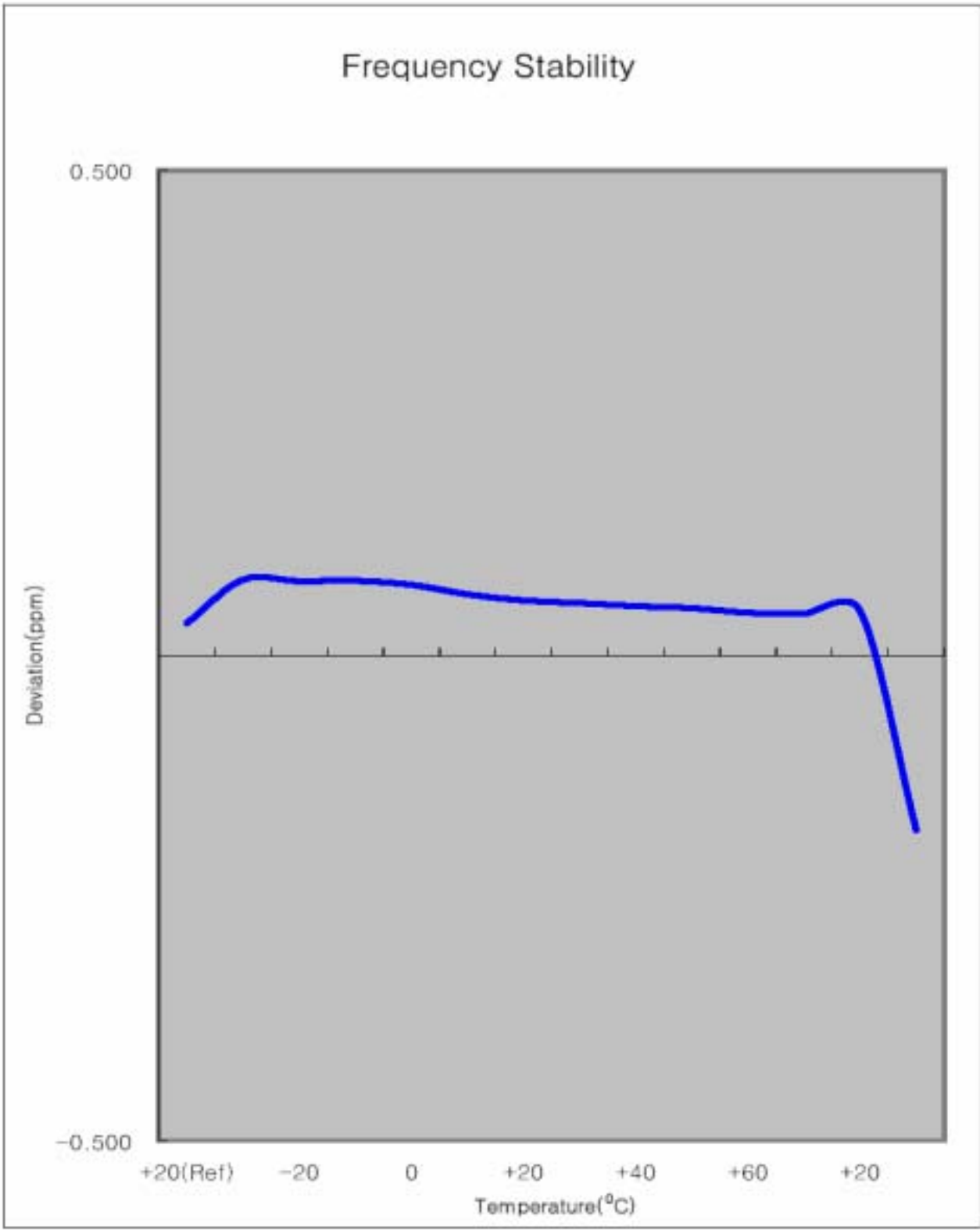
The EUT is tested down to the battery end point.

6.4.2 Frequency Stability Graph



- End of page -

Zoom In



- End of page -



7. CONCLUSION

The data collected shows that the SAMSUNG GSM1900 PCS Phone FCC ID : A3LSGHS341I complies with all the requirements of Parts 2,24 of the FCC Rules.

- End of page -



8. TEST PLOTS

- End of page -

Ch Freq 1.9098 GHz Trig Free
 Occupied Bandwidth

Center Freq
1.90980000 GHz

Start Freq
1.90930000 GHz

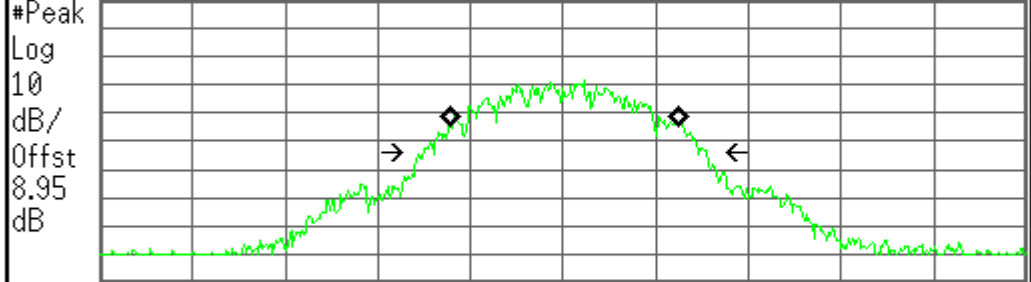
Stop Freq
1.91030000 GHz

CF Step
100.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

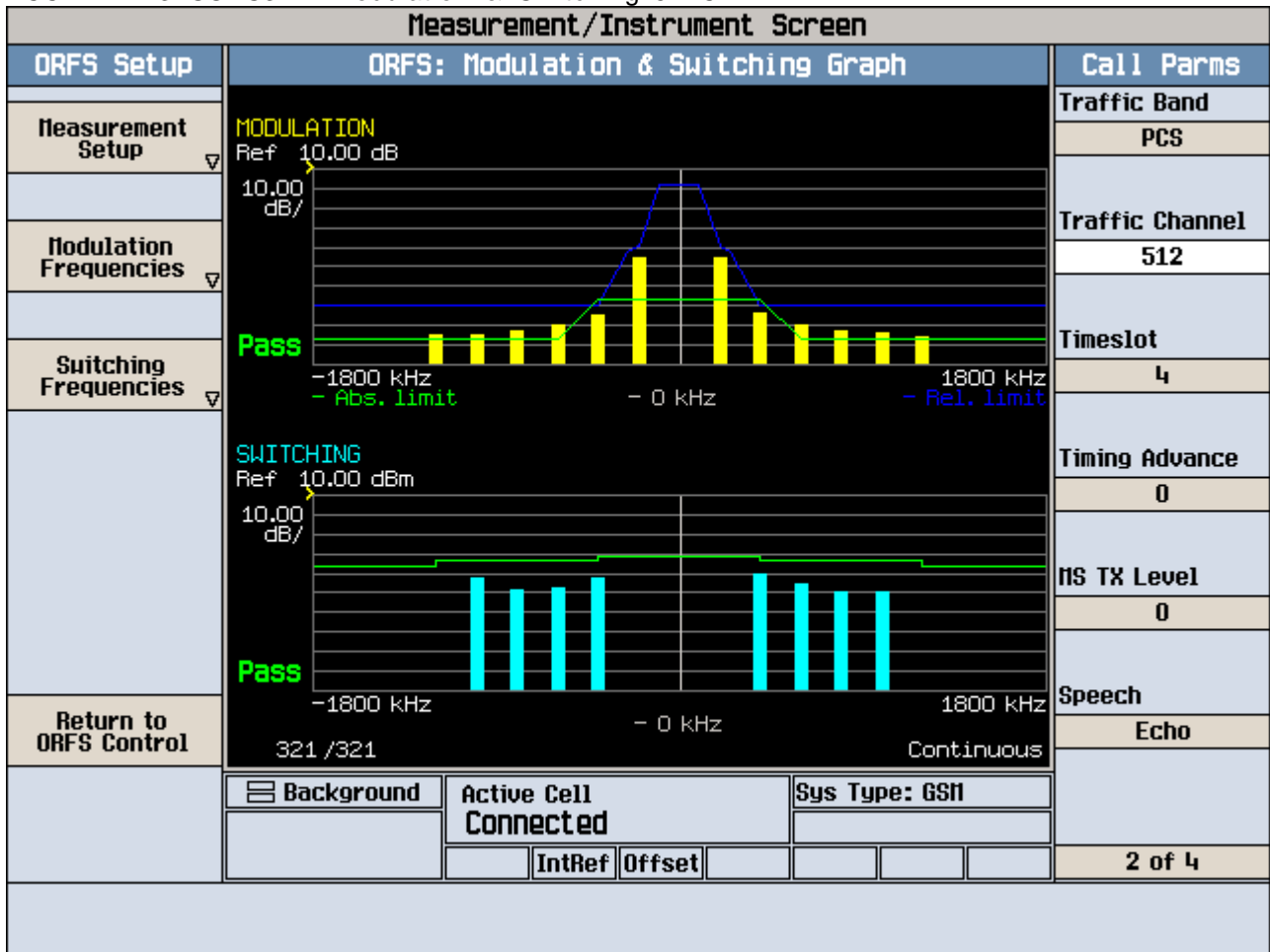
Signal Track
On Off

FCC ID:A3LSGHS341I 0BW ch.810
 Ref 30 dBm Atten 40 dB



Center 1.909 800 GHz Span 1 MHz
 #Res BW 3 kHz #VBW 3 kHz Sweep 134 ms (601 pts)

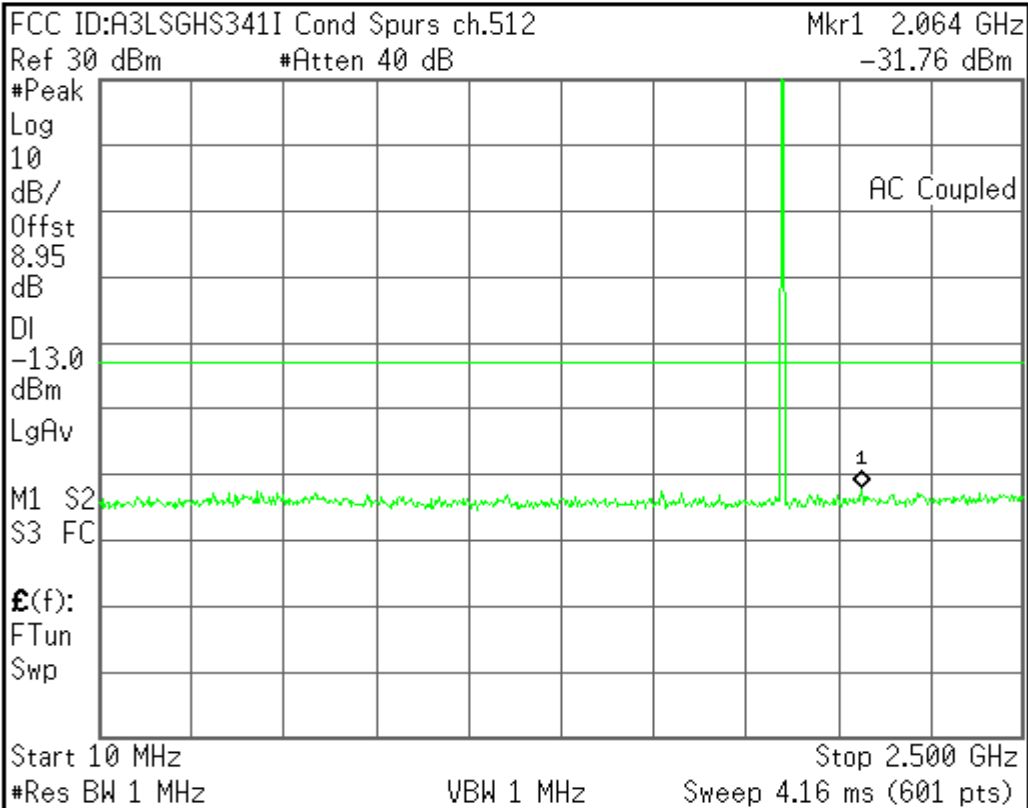
Occupied Bandwidth 249.7787 kHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 2.044 kHz
x dB Bandwidth 310.594 kHz



Agilent

L

Freq/Channel



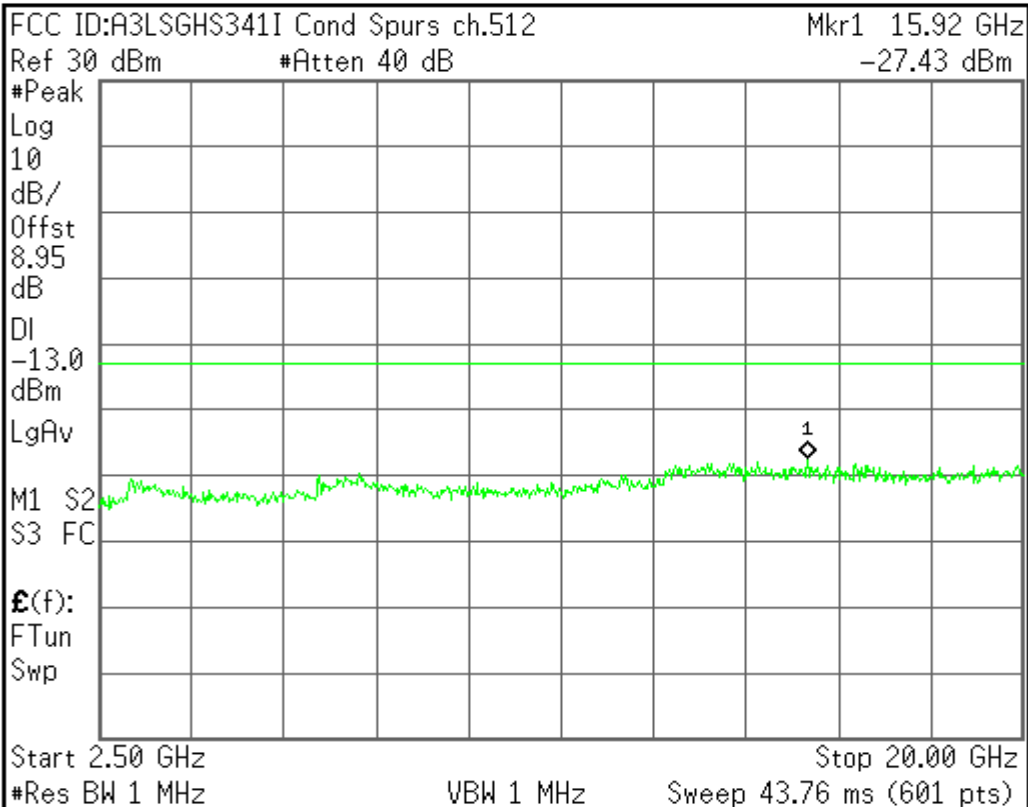
Center Freq 1.25500000 GHz
Start Freq 10.0000000 MHz
Stop Freq 2.50000000 GHz
CF Step 249.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Agilent

L

Freq/Channel



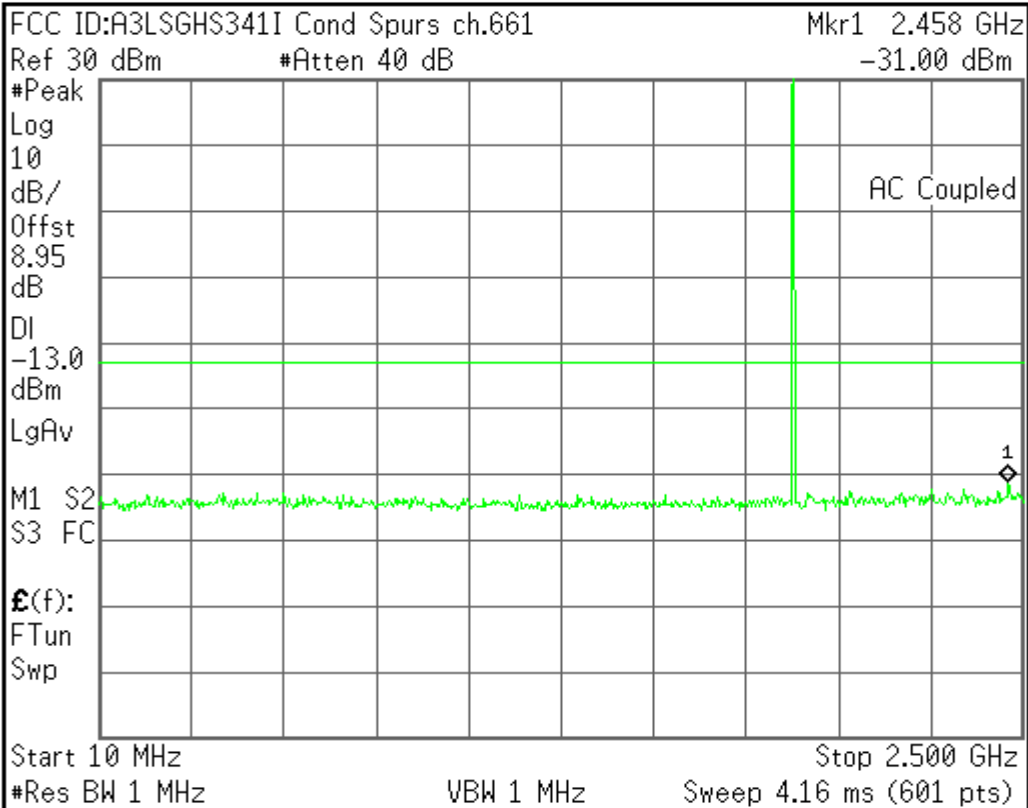
Center Freq 11.2500000 GHz
Start Freq 2.50000000 GHz
Stop Freq 20.0000000 GHz
CF Step 1.75000000 GHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Freq/Channel



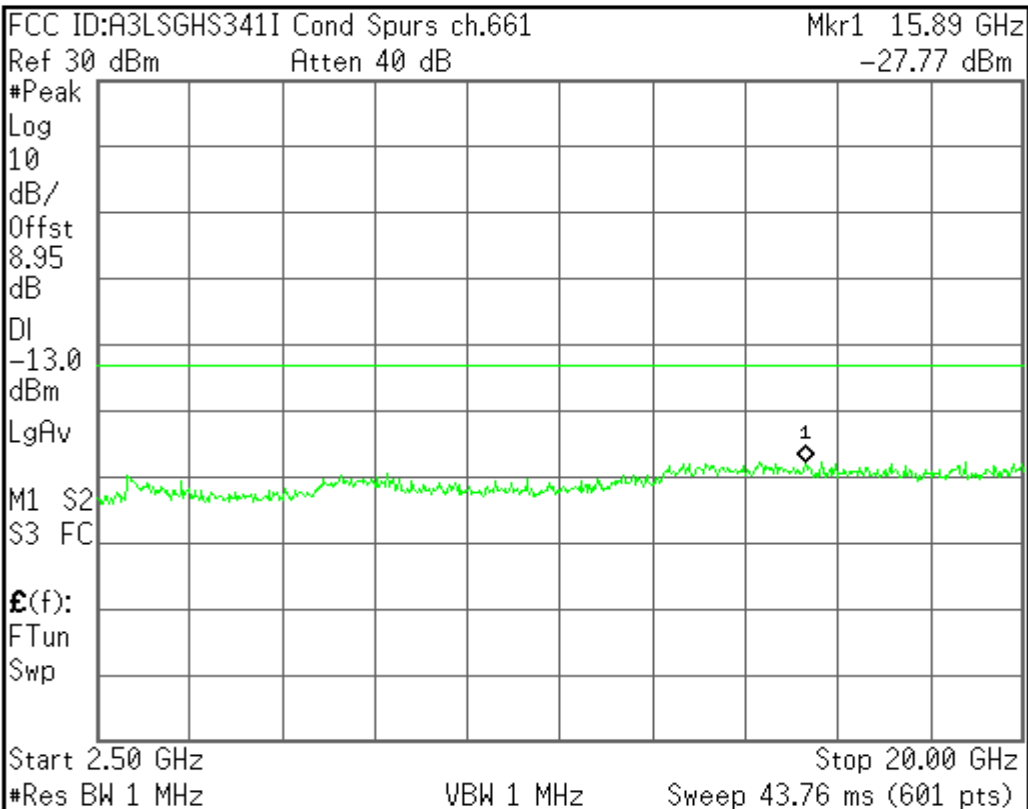
Center Freq 1.25500000 GHz
Start Freq 10.0000000 MHz
Stop Freq 2.50000000 GHz
CF Step 249.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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L

Freq/Channel



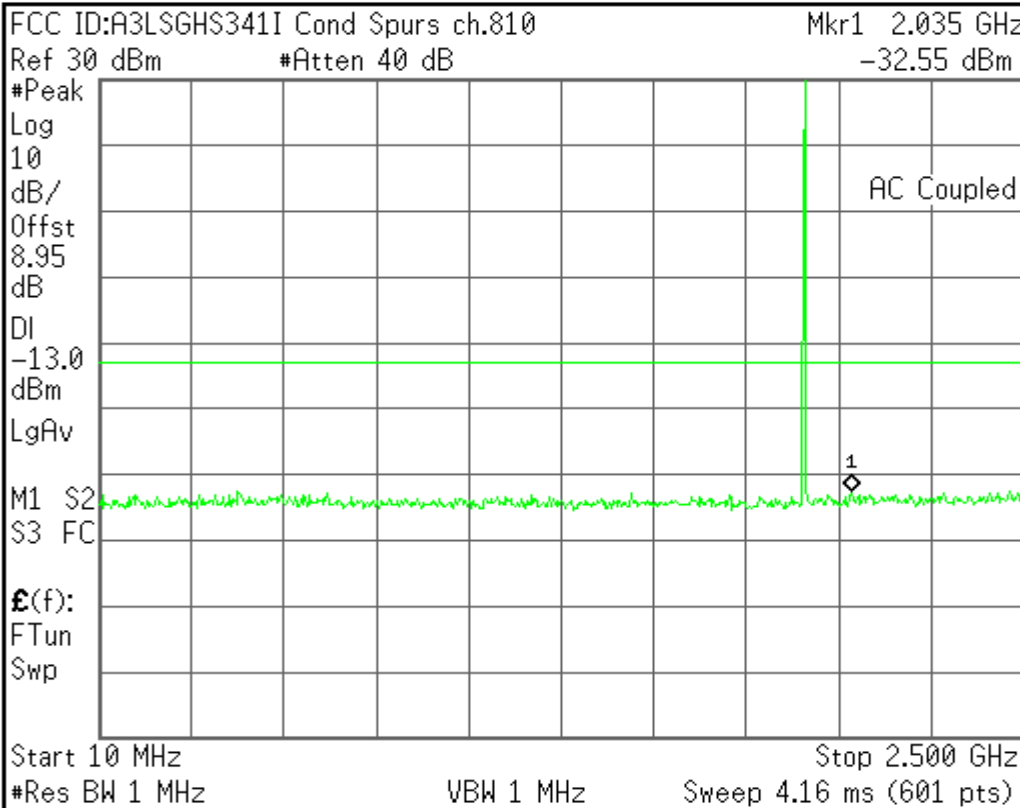
Center Freq 11.2500000 GHz
Start Freq 2.50000000 GHz
Stop Freq 20.0000000 GHz
CF Step 1.75000000 GHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Freq/Channel



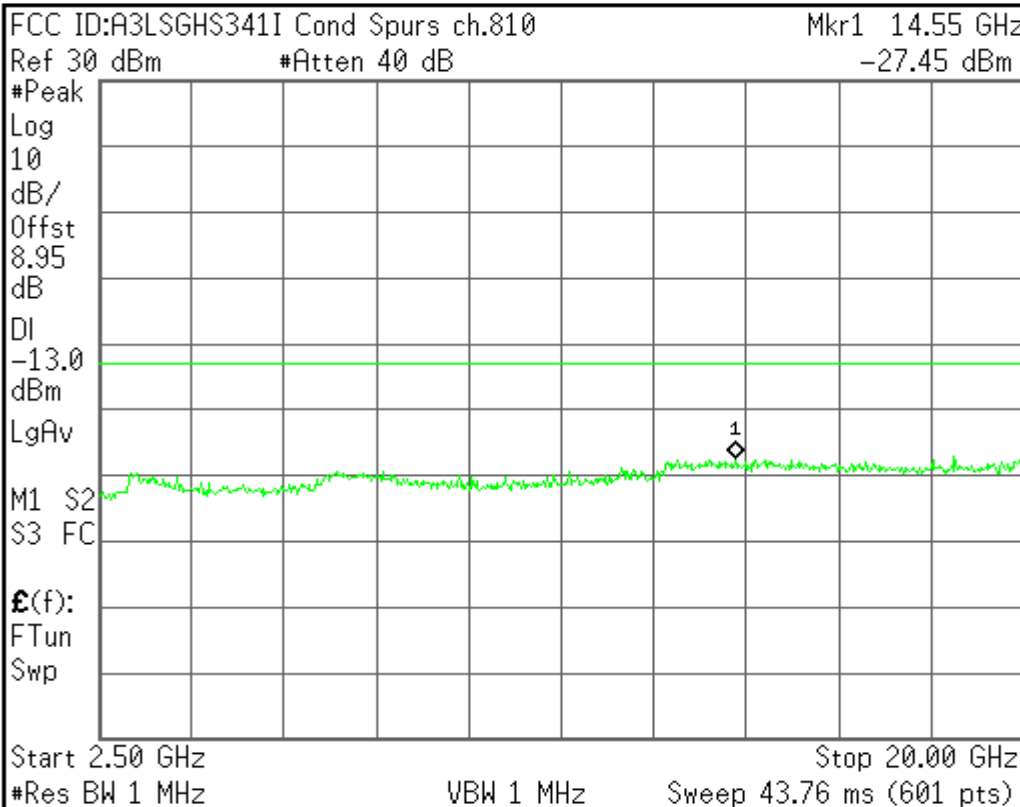
Center Freq 1.25500000 GHz
Start Freq 10.0000000 MHz
Stop Freq 2.50000000 GHz
CF Step 249.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Freq/Channel



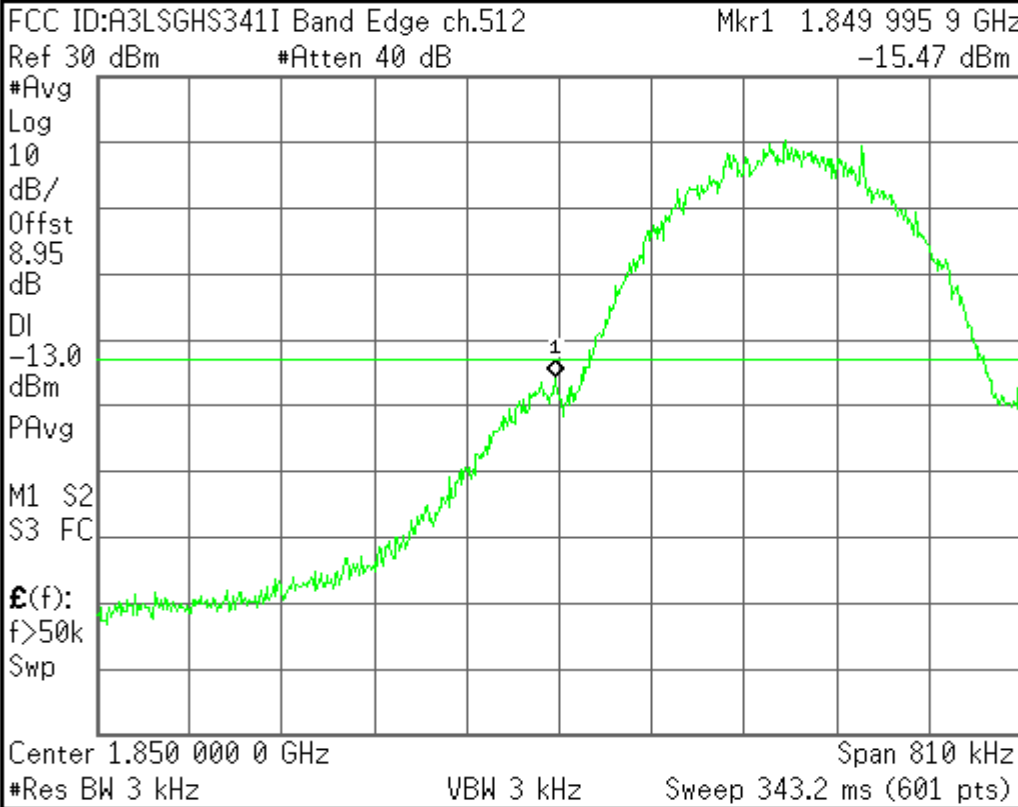
Center Freq 11.2500000 GHz
Start Freq 2.50000000 GHz
Stop Freq 20.0000000 GHz
CF Step 1.75000000 GHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Freq/Channel



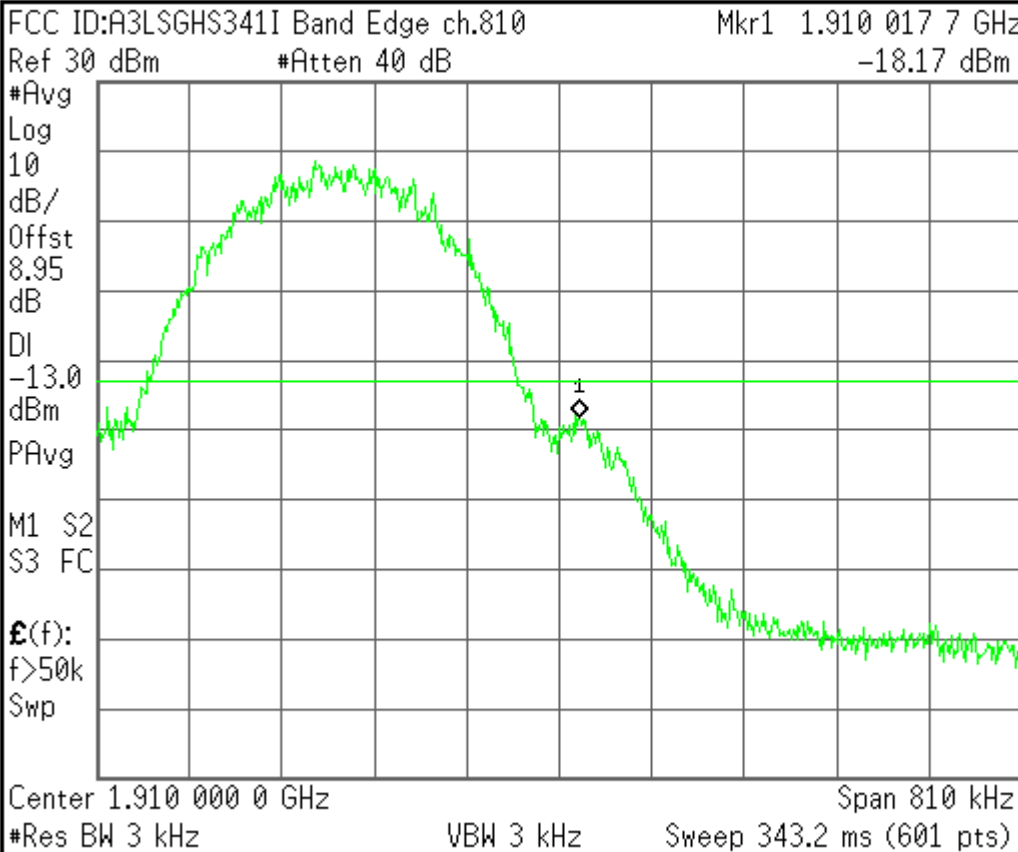
Center Freq 1.85000000 GHz
Start Freq 1.84959500 GHz
Stop Freq 1.85040500 GHz
CF Step 81.0000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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Center Freq 1.91000000 GHz
Start Freq 1.90959500 GHz
Stop Freq 1.91040500 GHz
CF Step 81.0000000 kHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

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