



Report No.: RZA2009-1264_22



Part 22


TEST REPORT

Product Name	GSM/GPRS Mobile Phone
Model	W001
FCC ID	XUT-W001
Client	Shenzhen Hongjiayuan Communication Technology CO.,LTD.

TA Technology (Shanghai) Co., Ltd.



GENERAL SUMMARY

Product Name	GSM/GPRS Mobile Phone	Model	W001
FCC ID	XUT-W001	Report No.	RZA2009-1264_22
Client	Shenzhen Hongjiayuan Communication Technology CO.,LTD.		
Manufacturer	Shenzhen Hongjiayuan Communication Technology CO.,LTD.		
Reference Standard(s)	<p>FCC Part 2 Frequency allocations and radio treaty matters; general rules and regulation. (V10.1.06)</p> <p>FCC Part 22 Public Mobile Services. (V10.1.06)</p> <p>ANSI/TIA-603-C Land mobile FM or PM Communications Equipment Measurements and Performance Standards.(2004)</p>		
Conclusion	<p>This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: Pass</p> <div style="text-align: right;">  (Stamp) Date of issue: December 3rd, 2009 </div>		
Comment	The test result only responds to the measured sample.		

Approved by 杨伟中
Yang Weizhong

Revised by 徐凯
Xu kai

Performed by 刘伟
Liu Wei

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1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

1.2. Testing laboratory

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
Post code:	201210
Country:	P. R. China
Contact:	Yang Weizhong
Telephone:	+86-021-50791141/2/3
Fax:	+86-021-50791141/2/3-8000
Website:	http://www.ta-shanghai.com
E-mail:	yangweizhong@ta-shanghai.com

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1.3. Applicant Information

Company: Shenzhen Hongjiayuan Communication Technology CO.,LTD.
Address: Room 2406,Block A of Electronic Science and Technology Building,No.2070,Shennan
Zhong Road,Futian District,Shenzhen City,Guangdong Province,China
City: Shenzhen
Postal Code: /
Country: P.R. China
Contact: Cong Chen
Telephone: +86 755 33366555
Fax: +86 755 33366565

1.4. Manufacturer Information

Company: Shenzhen Hongjiayuan Communication Technology CO.,LTD.
Address: Room 2406,Block A of Electronic Science and Technology Building,No.2070,Shennan
Zhong Road,Futian District,Shenzhen City,Guangdong Province,China
City: Shenzhen
Postal Code: /
Country: P.R. China
Contact: Cong Chen
Telephone: +86 755 33366555
Fax: +86 755 33366565

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1.5. Information of EUT

General information

Device type:	Portable device		
Name of EUT:	GSM/GPRS Mobile Phone		
Device operating configurations:			
IMEI or SN:	355002800004837		
Operating mode(s):	GSM850: (tested)		
Test modulation:	GMSK		
E.R.P	22.21dBm		
Rated Output Power:	GSM850: 33dBm		
GPRS multi-slot class:	12		
Antenna type:	Internal Antenna		
Power supply:	Battery or Charger (AC adaptor)		
Rated Power Supply Voltage:	3.7V		
Extreme Voltage:	Minimum: 3.5V Maximum: 4.2V		
Extreme Temperature:	Lowest: -10°C Highest: +55°C		
Operating frequency range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM850	824.2 ~ 848.8	869.2 ~ 893.8
Hardware version:	E706_V1.2		
Software version:	E706_JJF2IPH18.01.0		

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Auxiliary equipment details

AE1: Battery

Model: W001

Manufacture: Shenzhen Hongjiayuan Communication Technology CO.,LTD.

IMEI or SN: /

AE2: Travel Adapter

Model: HY-SW0500500X

Manufacture: Shenzhen HanYuXun Electronics CO.,LTD.

IMEI or SN: /

Equipment Under Test (EUT) is GSM/GPRS Mobile Phone with integrated antenna. It consists of mobile phone, battery and adaptor (see ANNEX A) and the detail about these is in chapter 1.5 in this report. The EUT supports GSM 850 band in this report.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

1.6. Test Date

The test is performed from September 22, 2009 to November 30, 2009.

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2. Test Information

2.1. Summary of test results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Radiated Power	22.913(a)(2)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	22.917	PASS
5	Frequency Stability	2.1055 / 22.355	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
7	Radiates Spurious Emission	2.1053 / 22.917 (a)	PASS

2.2. RF Power Output

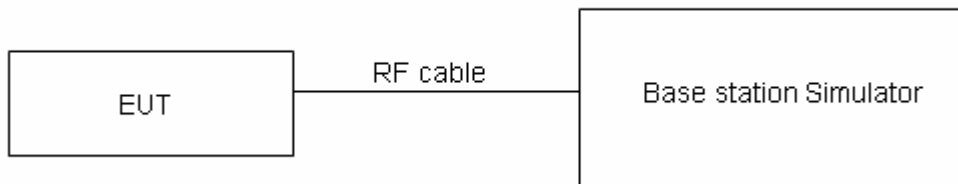
Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation. These measurements have been tested at following channels: 128, 190, and 251 for GSM 850 band.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$. $U = 0.4$ dB.

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Test Results

GSM 850

Channel	Frequency (MHz)	RF Output Power (dBm)
128	824.2	32.26
190	836.6	31.99
251	848.8	31.73

GSM 850 GPRS

Channel	Frequency (MHz)	UL-timeslot(s)	RF Output Power (dBm)
128	824.2	1	32.28
		2	32.16
		3	30.26
		4	30.15
190	836.6	1	32.01
		2	31.92
		3	29.98
		4	29.90
251	848.8	1	31.75
		2	31.64
		3	29.76
		4	29.70

2.3. Effective Radiated Power

Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Methods of Measurement

Test procedure:

The measurement was done according to TIA/EIA 603C.

Step 1:

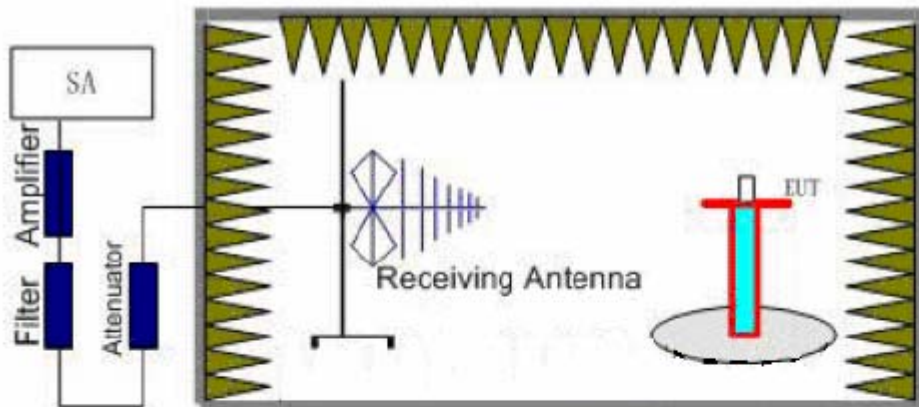
The measurement is carried out in the semi-anechoic chamber. EUT was placed on a 0.8 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used while RBW and VBW are both set to 3MHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.

Step 2:

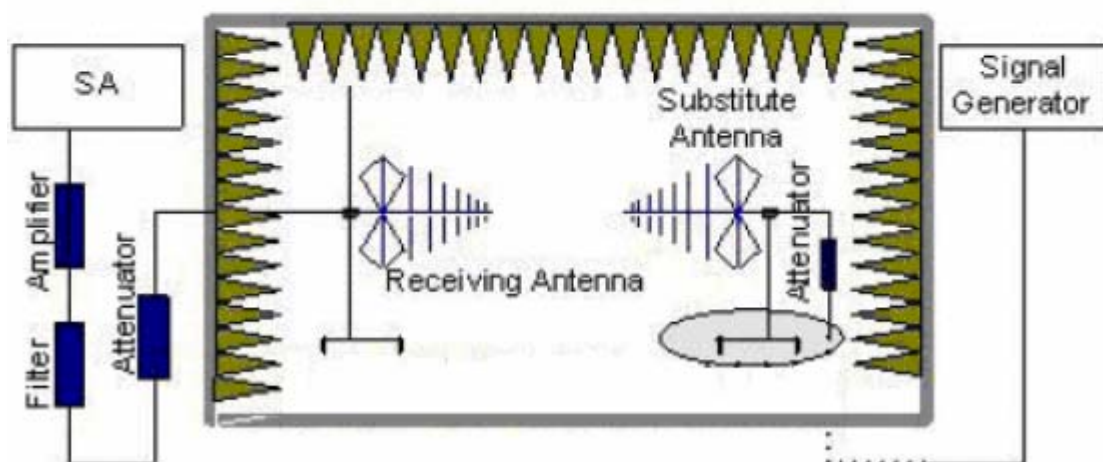
A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a known power S.G. applied through a Tx cable. Then the maximum Analyzer reading is recorded while the antenna was moving up and down. The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

The correction factor (in dB)=S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading – 2.15. Then the EUT's E.R.P. was calculated with the correction factor, E.R.P. = LVL + Correction factor.

Test Setup



Step 1



Step 2

Limits

Rule Part 22.913(a) specifies that "Mobile/portable stations are limited to 7 watts ERP".

GSM 850(ERP)	$\leq 7 \text{ W}$ (38.45 dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$. $U = 1.19 \text{ dB}$

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Test Results

GSM 850

Channel	Frequency (MHz)	ERP (dBm)
128	824.2	19.22
190	836.6	20.25
251	848.8	22.21

2.4. Occupied Bandwidth

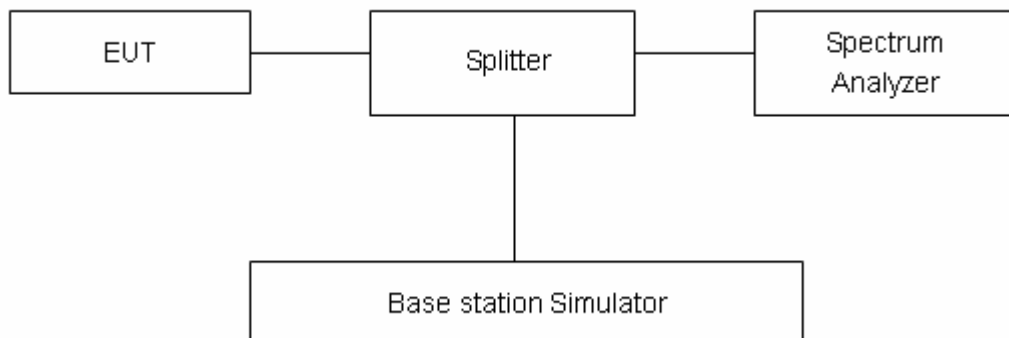
Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 3 kHz on spectrum analyzer. 99% power and -26dBC occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$. $U = 624\text{Hz}$.

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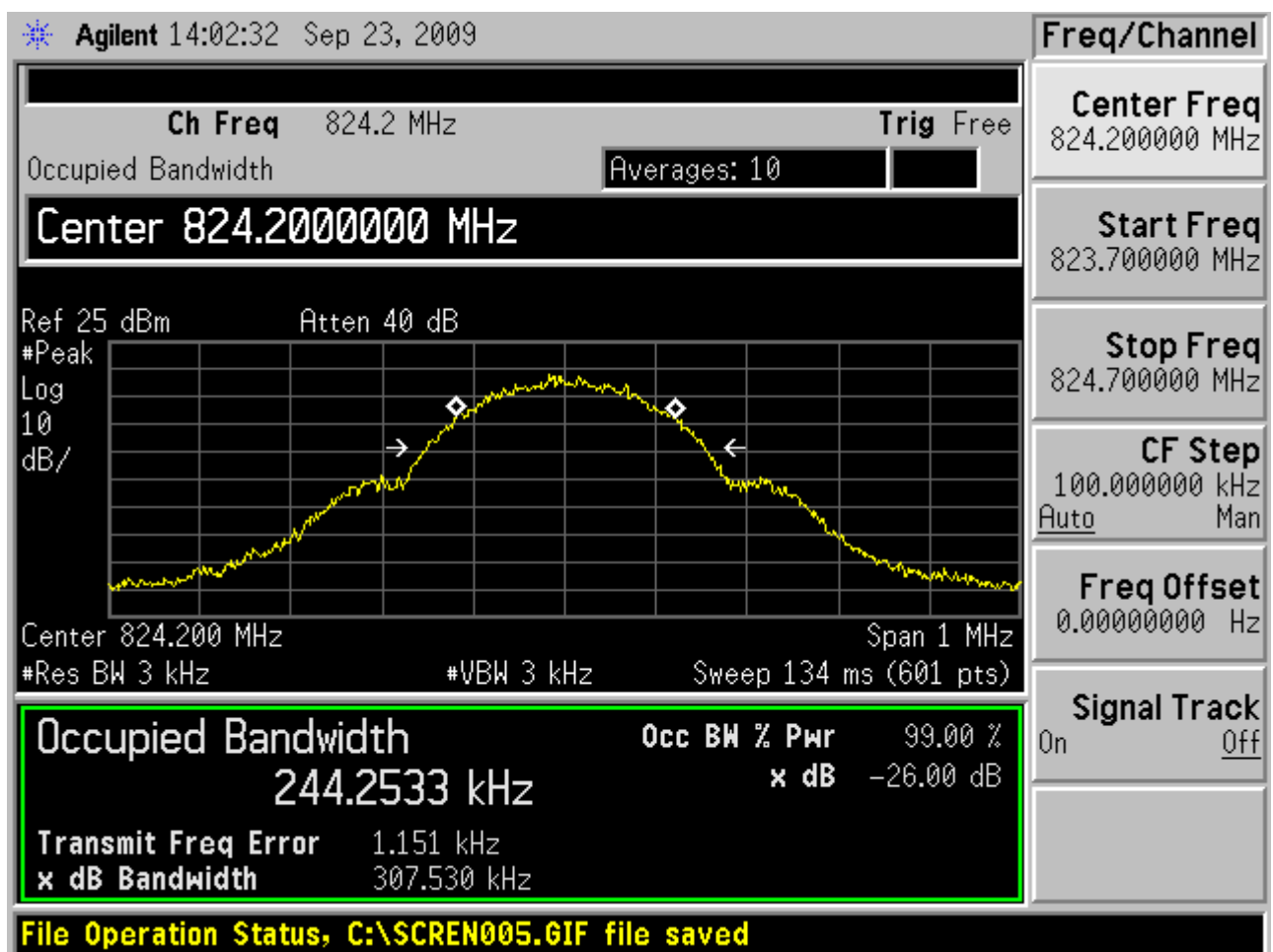
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Test Results:

GSM 850

Channel	Frequency (MHz)	99% Power Bandwidth (kHz)	-26dBc Bandwidth(kHz)
128	824.2	244.2533	307.530
190	836.6	245.4987	310.496
251	848.8	245.7605	308.875

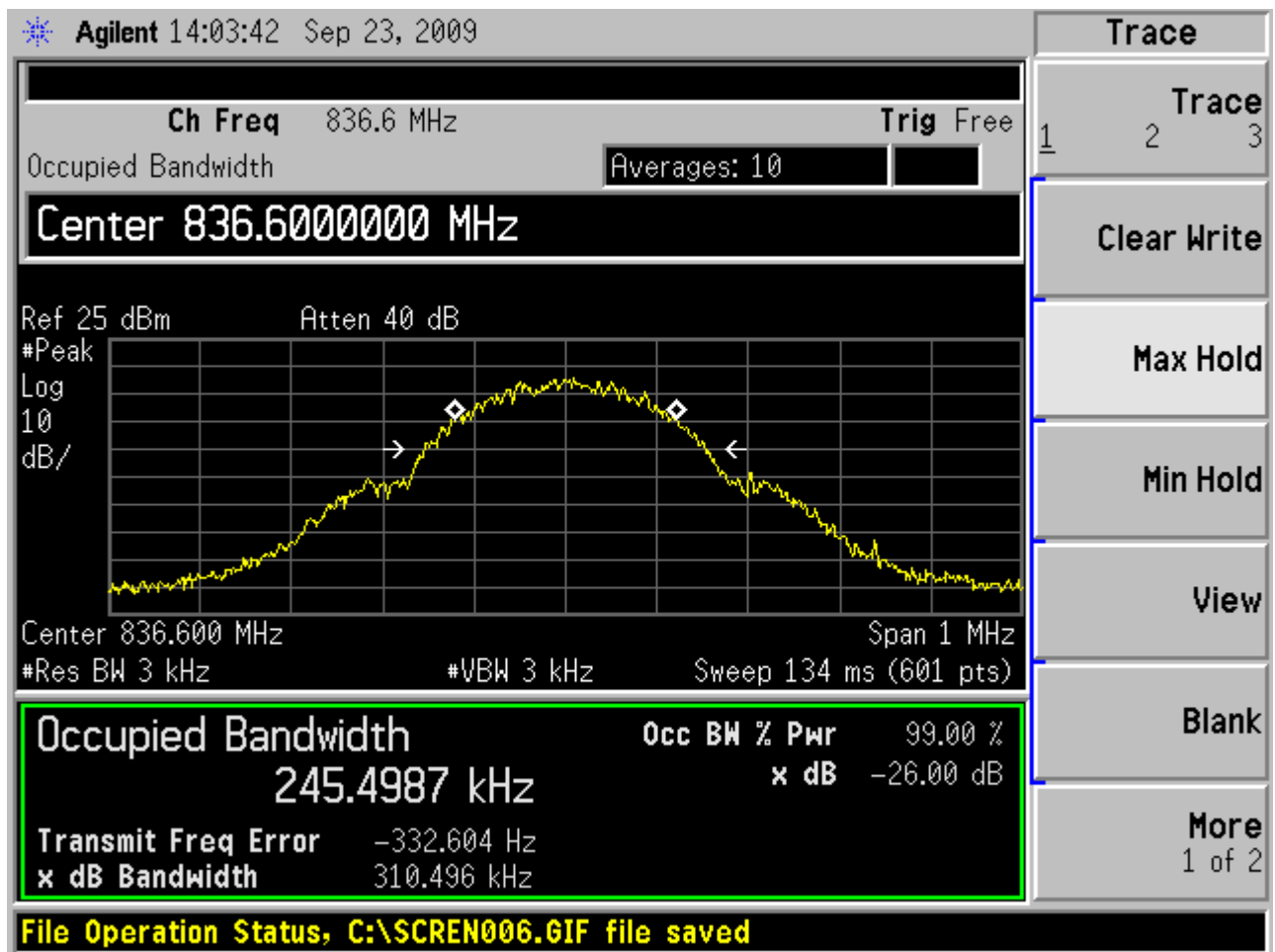


GSM 850 CH128 Occupied Bandwidth

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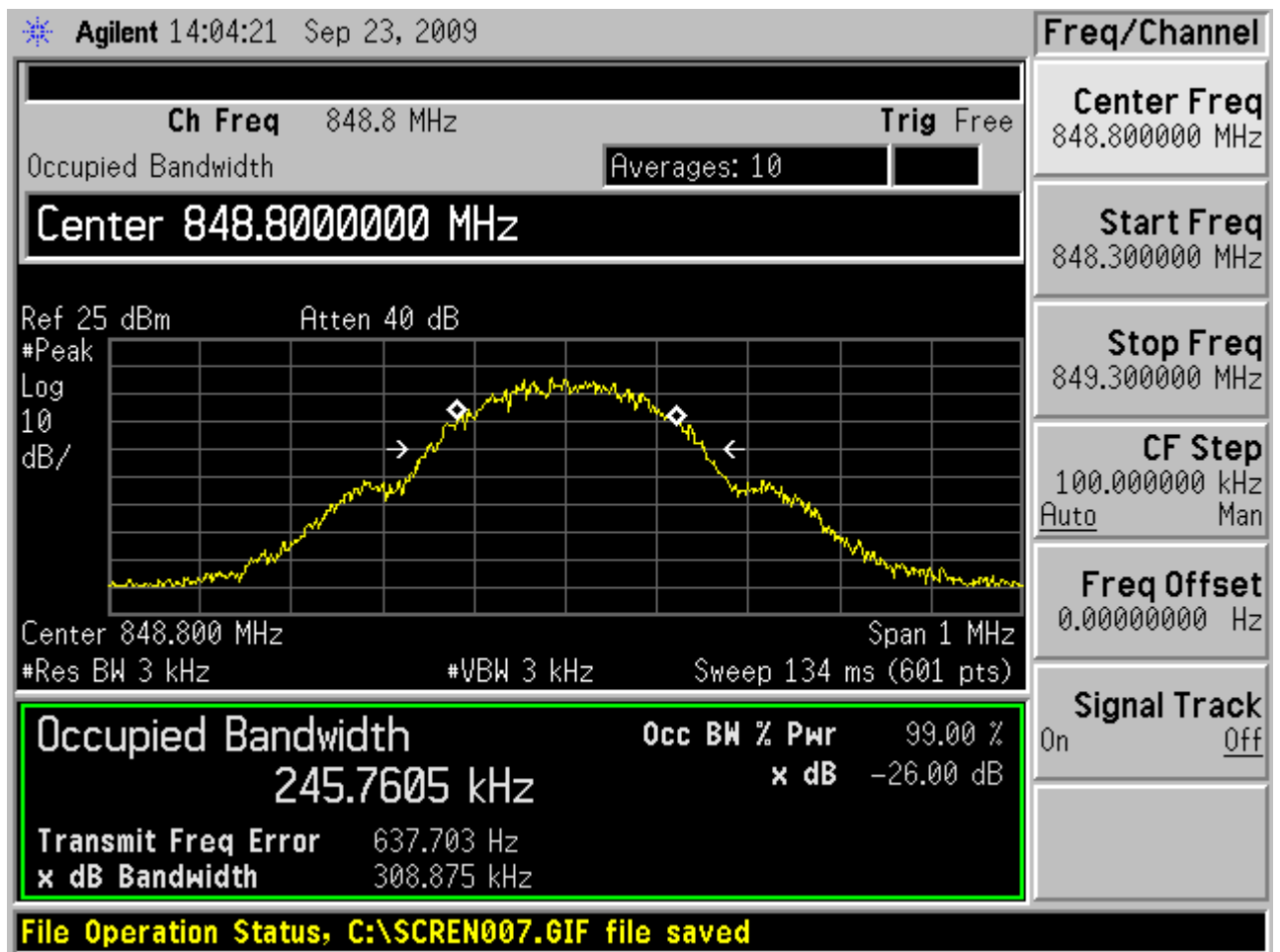
GSM 850 CH190 Occupied Bandwidth

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GSM 850 CH251 Occupied Bandwidth

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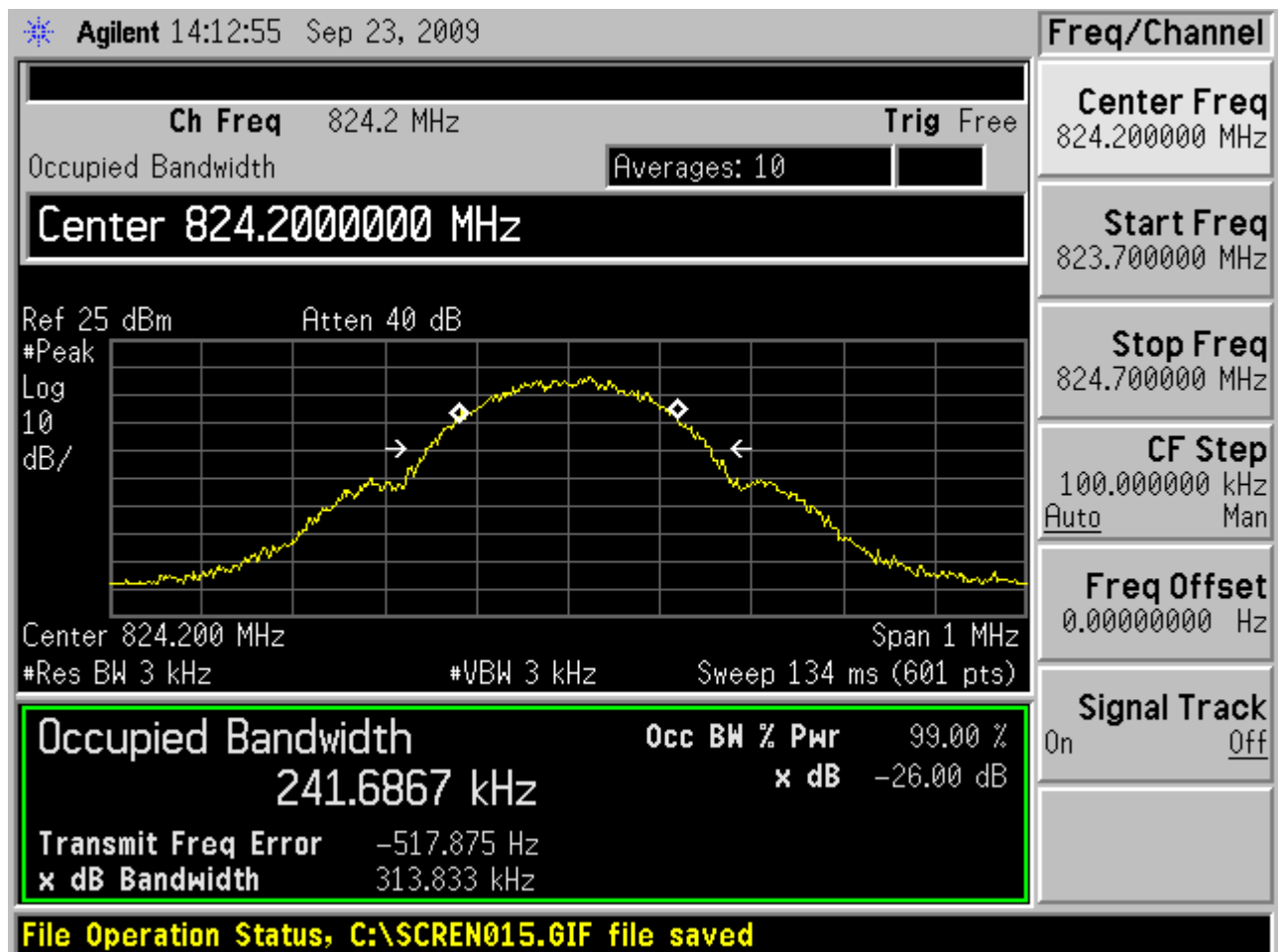
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GSM 850 GPRS

Channel	Frequency (MHz)	99% Power Bandwidth (kHz)	-26dBc Bandwidth(kHz)
128	824.2	241.6867	313.833
190	836.6	241.8615	308.684
251	848.8	244.3786	316.040



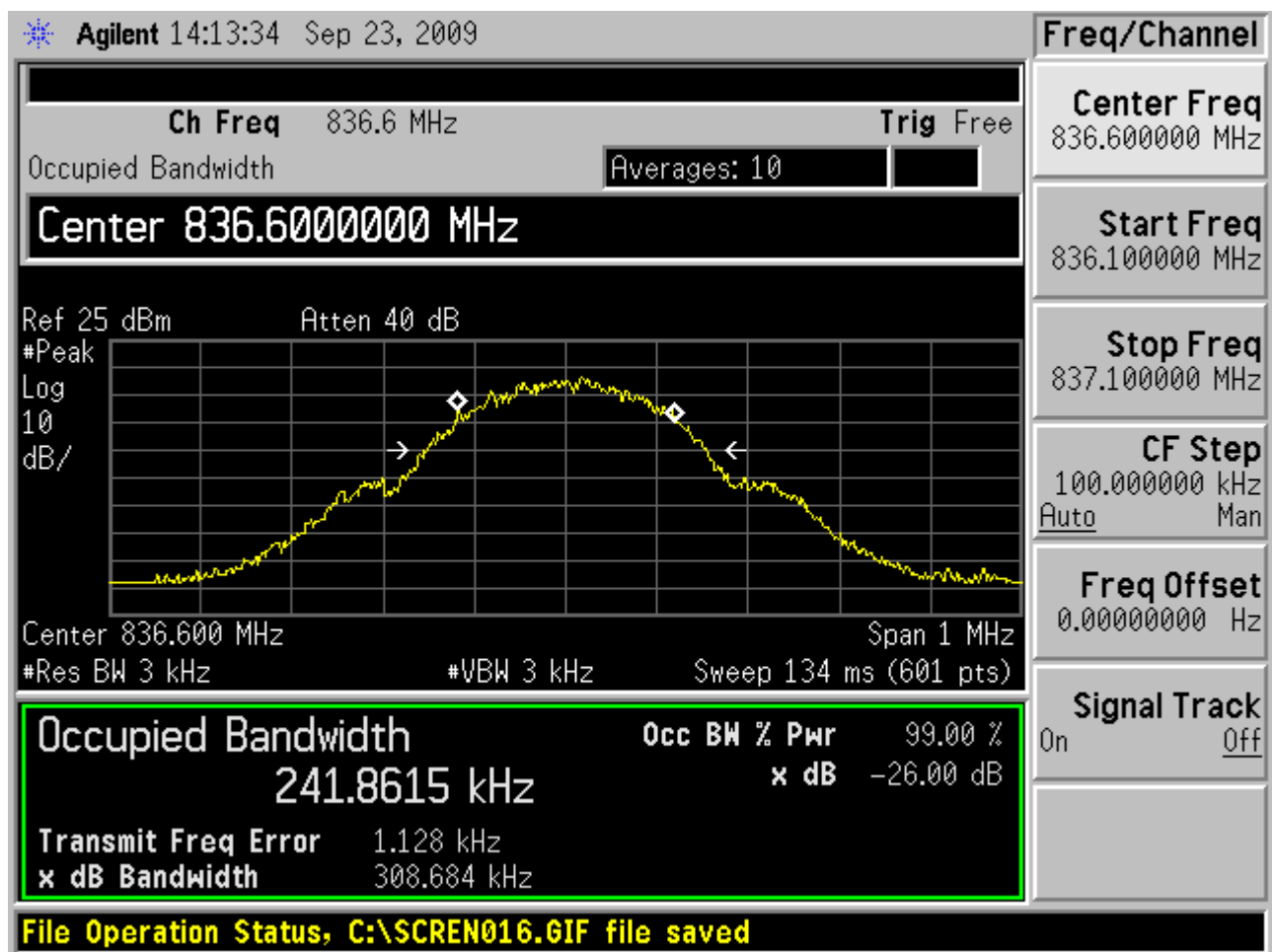
GSM 850 CH128 Occupied Bandwidth

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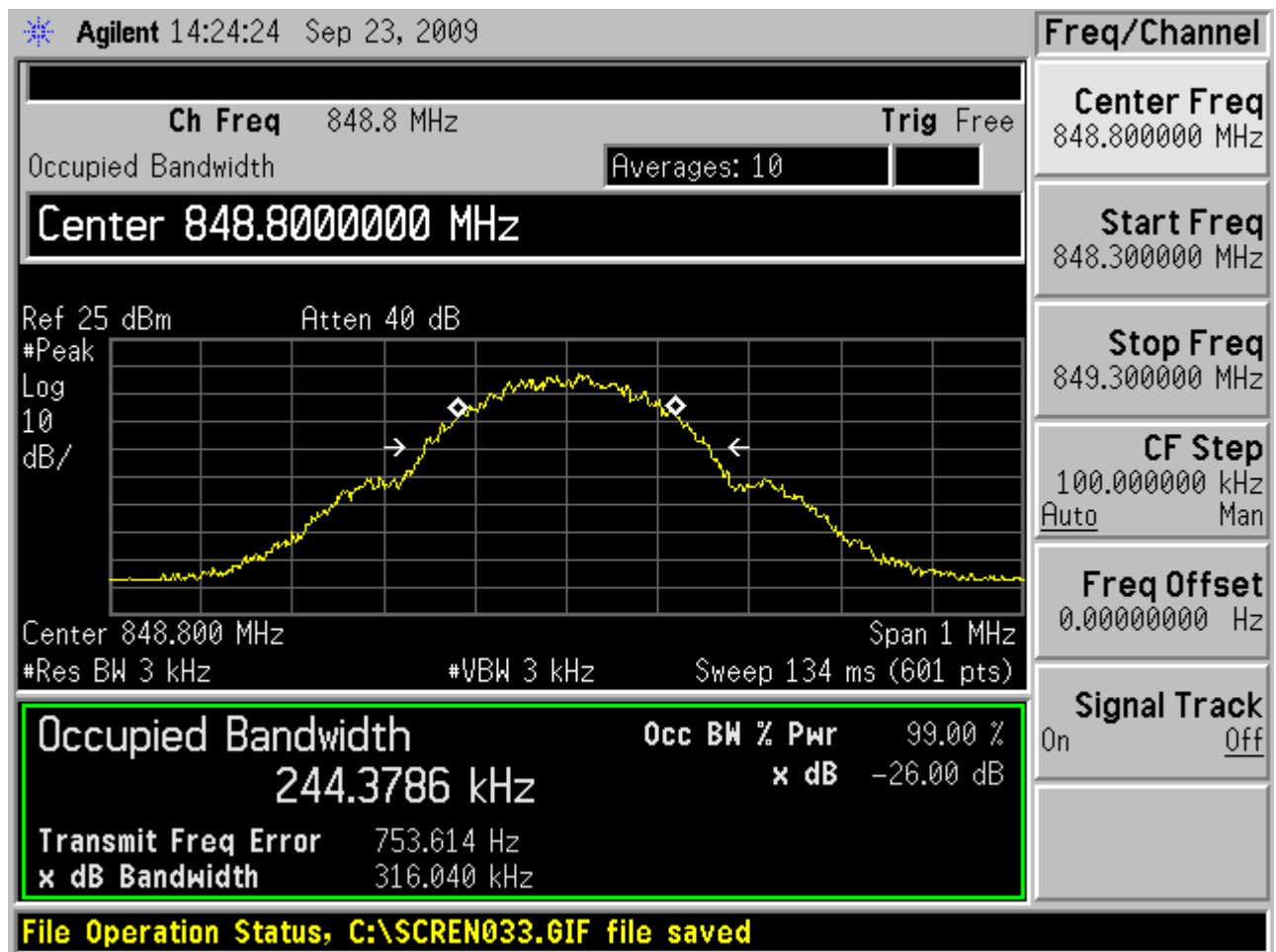
GSM 850 CH190 Occupied Bandwidth

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GSM 850 CH251 Occupied Bandwidth

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2.5. Band Edge Compliance

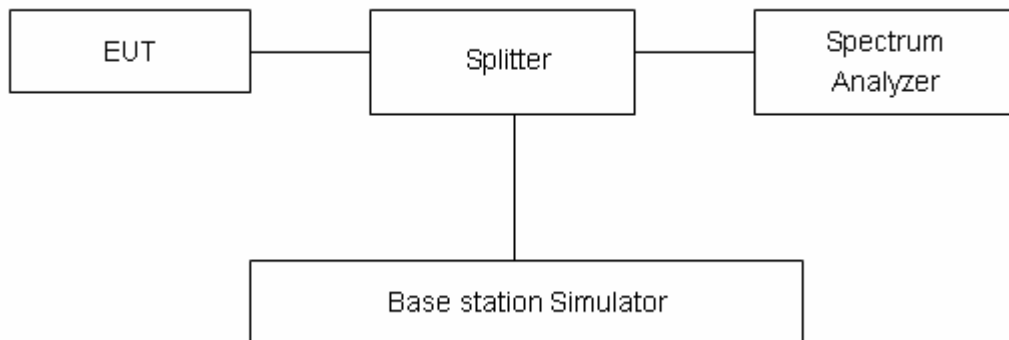
Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The peak detector is used and RBW is set to 3kHz on spectrum analyzer. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 22.917(a) specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB."

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$. $U = 0.684$ dB.

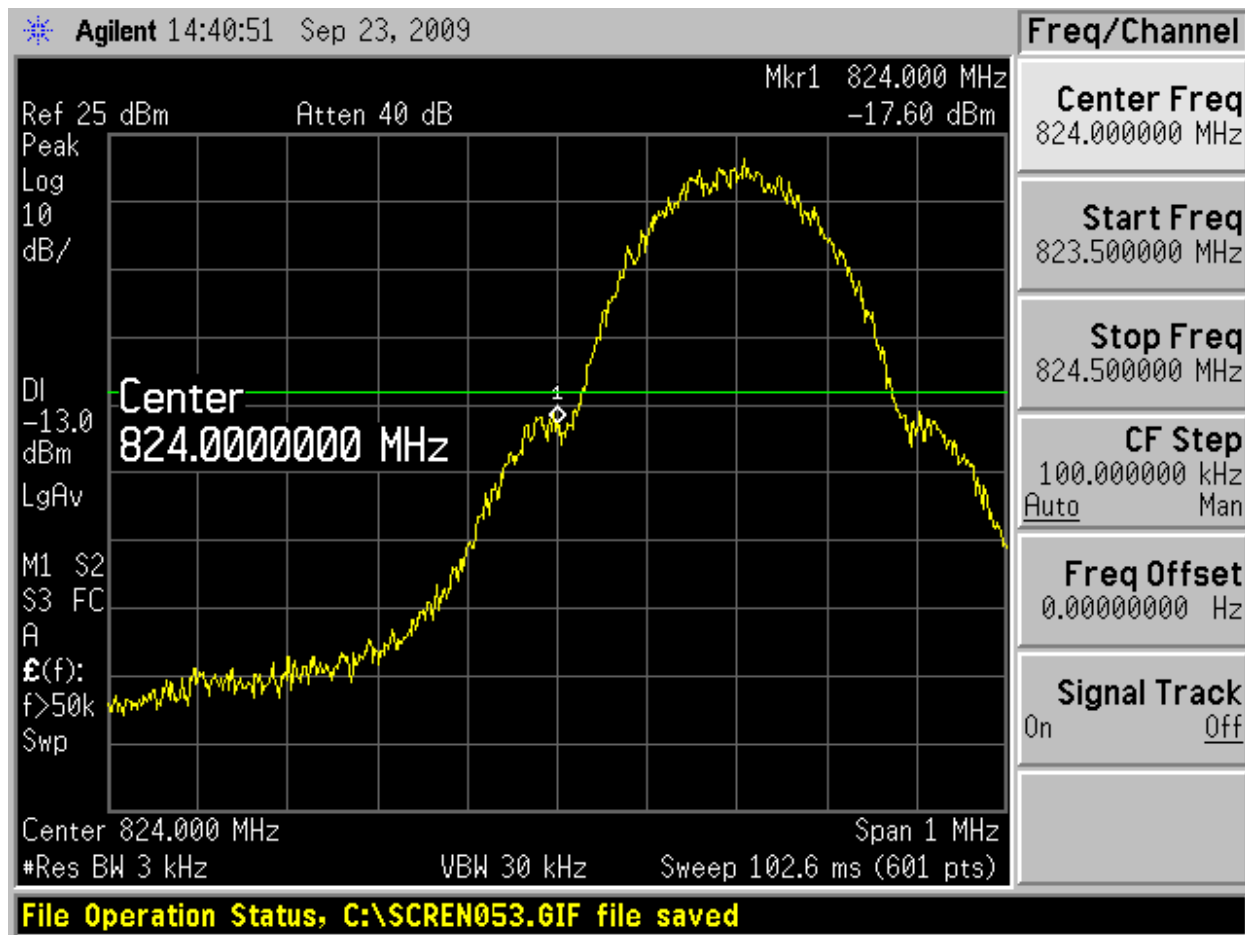
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Test Results:

GSM 850

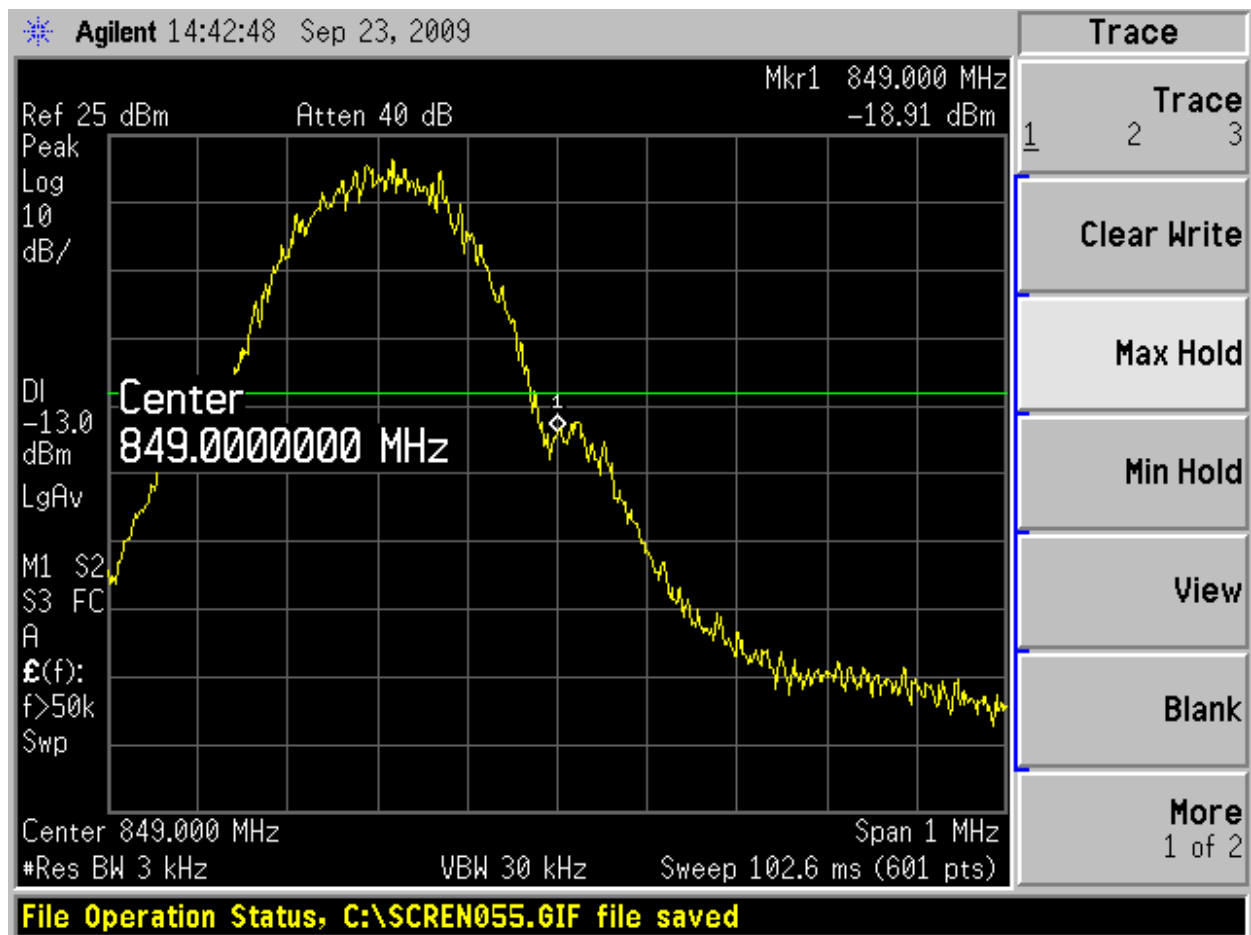


GSM 850 128 Channel

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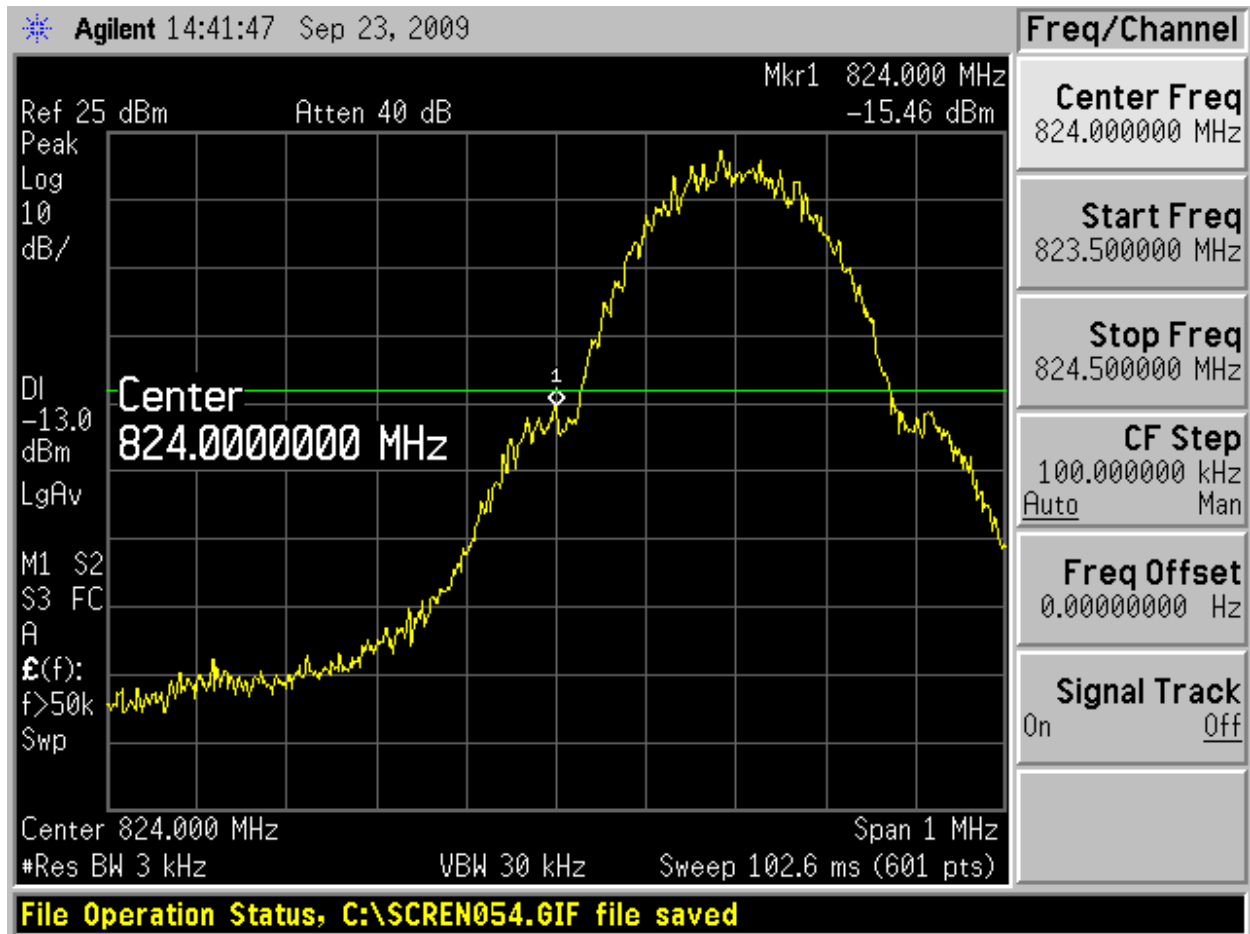
GSM 850 251 Channel

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GSM 850 GPRS



GSM 850 GPRS 128 Channel

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GSM 850 GPRS 251 Channel

2.6. Frequency Stability

Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -20°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to -20°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -20°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

2. Frequency Stability (Voltage Variation)

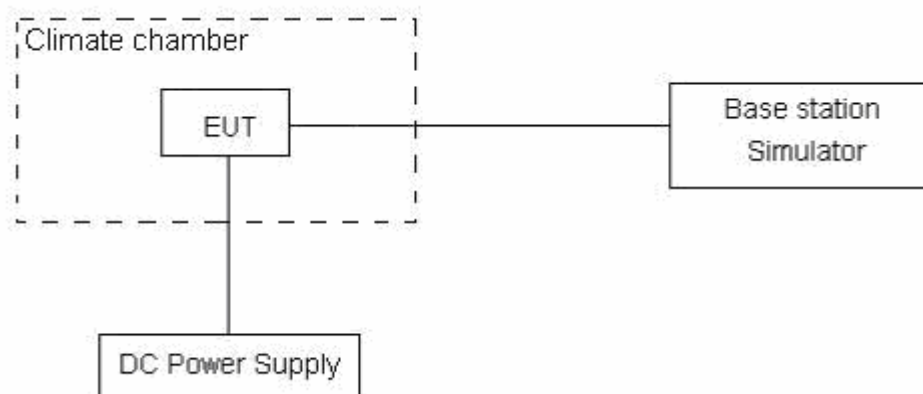
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.5 V and 4.2 V, with a nominal voltage of 3.7V.

Test setup



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Limits

According to the FCC Part 22 standard, the frequency stability of the carrier shall be accurate to within 2.5 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 22.355 Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limits	≤ 2.5 ppm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$. $U = 0.01$ ppm.

Test Result

Temperature (° C)	Test Results (ppm) / 3.7 V Power supply
	Channel 190
-20	0.05
-10	0.04
0	-0.04
10	0.03
20	-0.04
30	0.03
40	-0.04
50	0.04

Voltage (V)	Test Results(ppm) / 20° C
	Channel 190
4.2	-0.03
3.5	-0.05

2.7. Spurious Emissions at Antenna Terminals

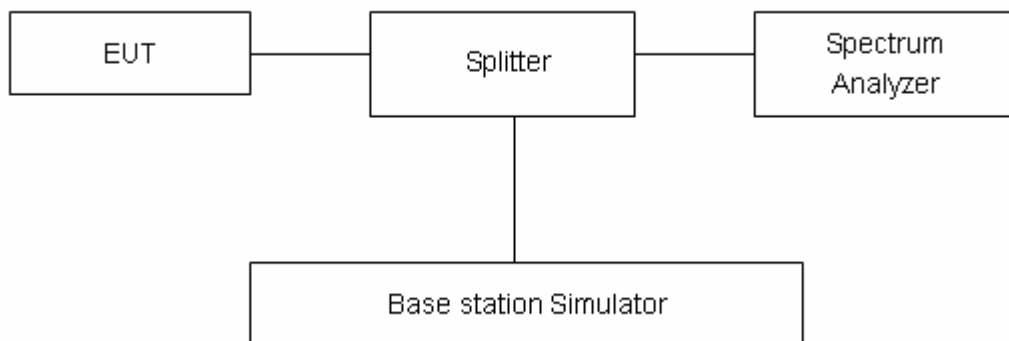
Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

Test setup



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

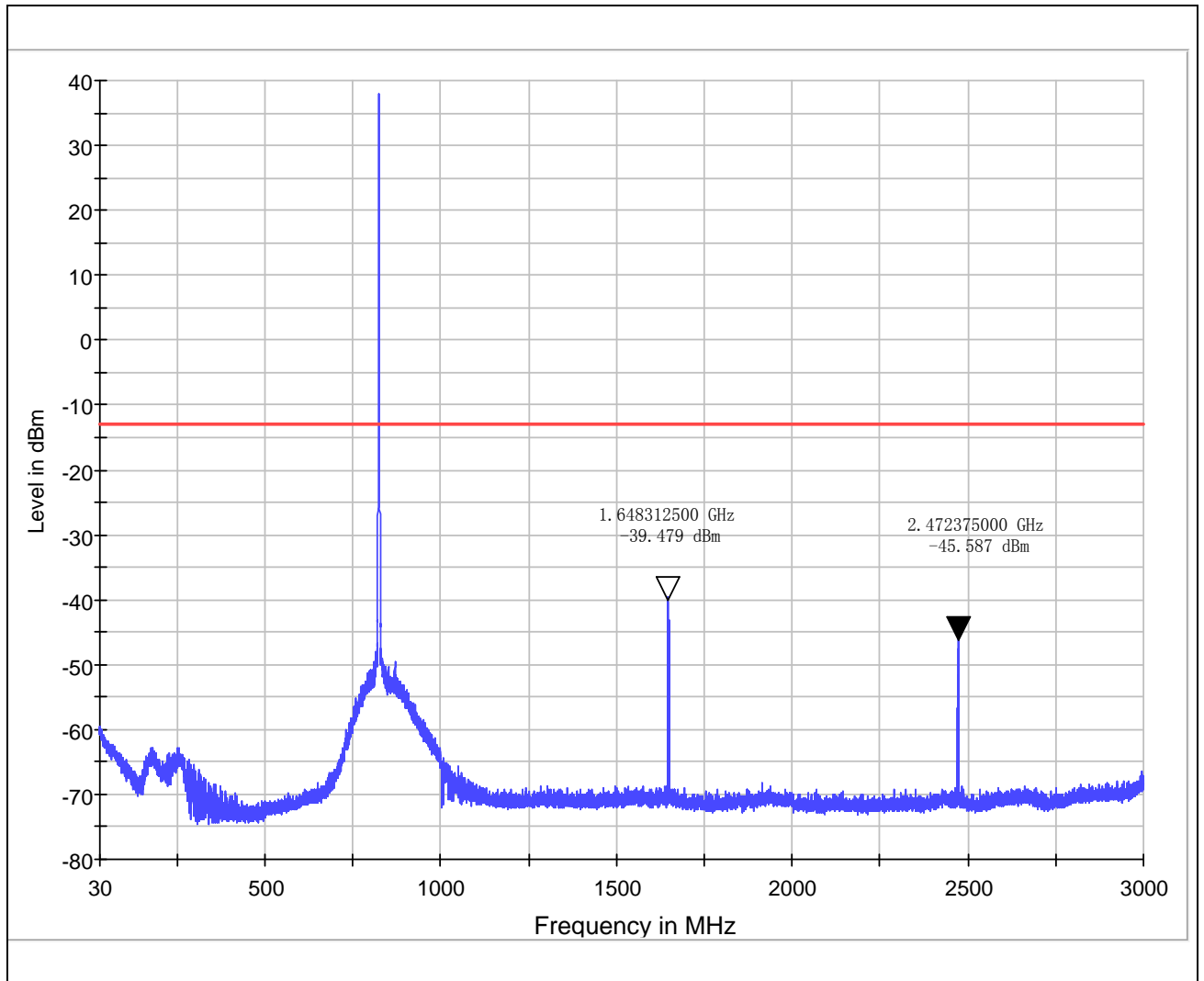
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Test Results:

GSM 850 CH128

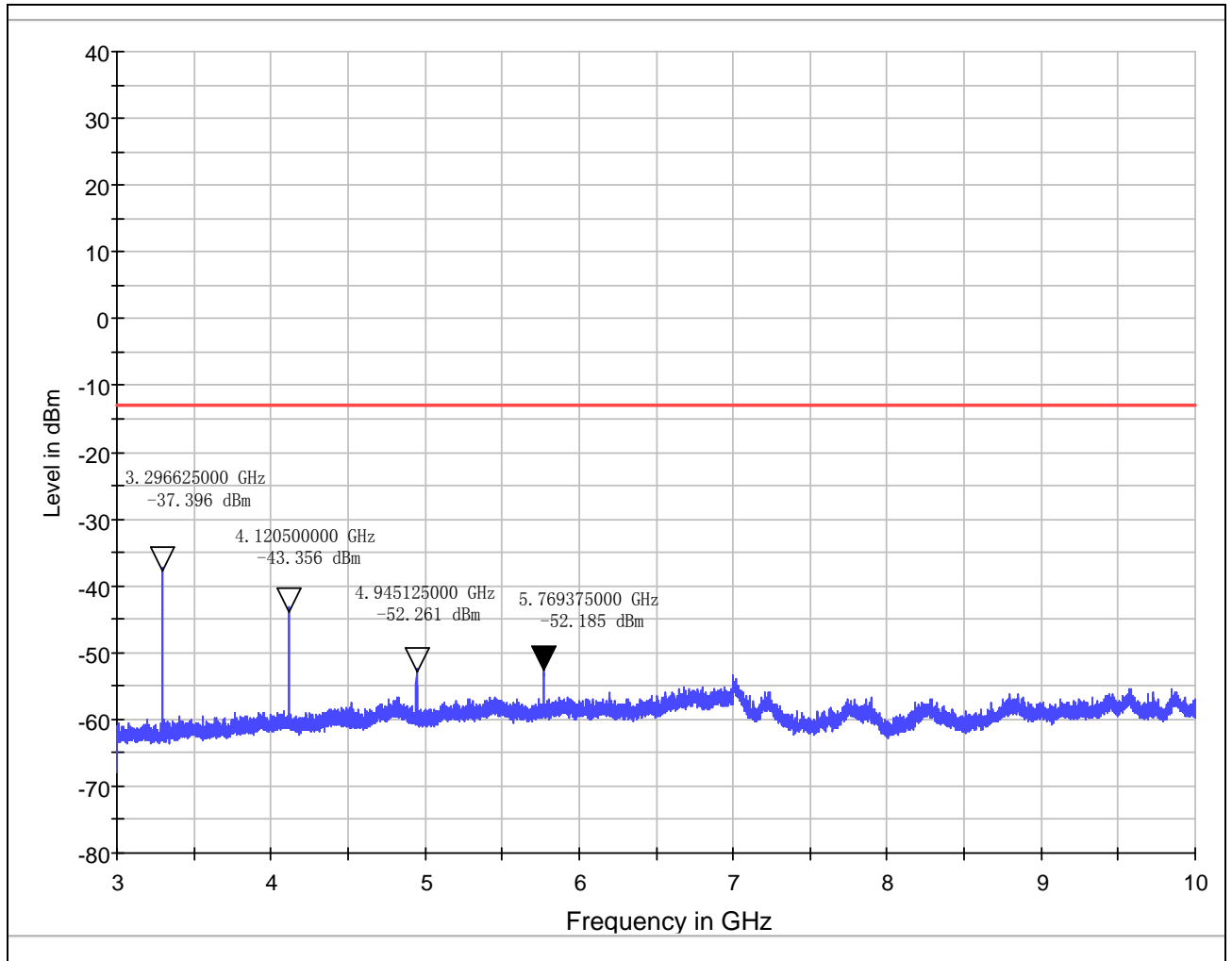


Note: The signal beyond the limit is carrier
GSM 850 128 Channel 30MHz~3GHz

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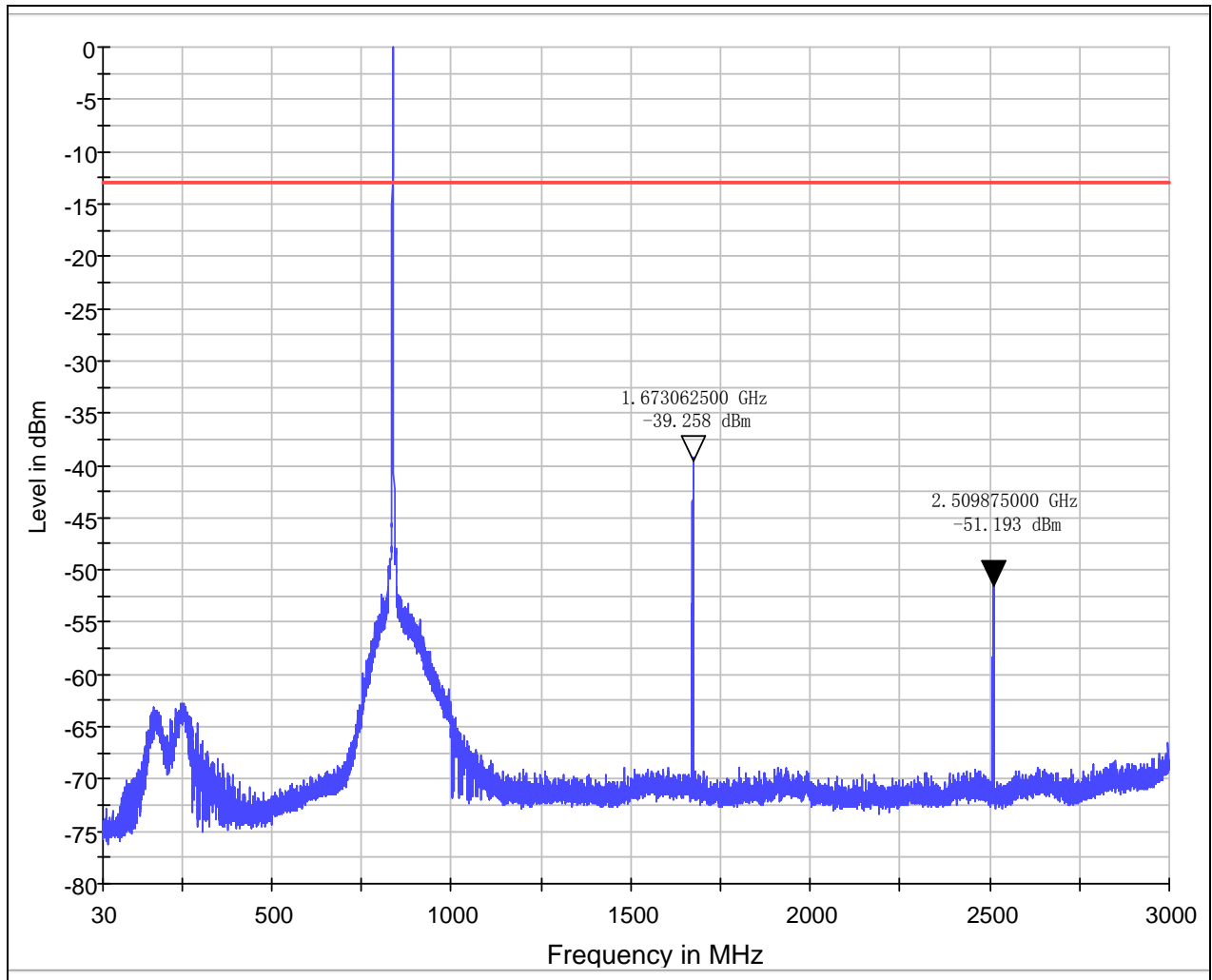
GSM 850 128 Channel 3GHz~10GHz

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GSM 850 CH190

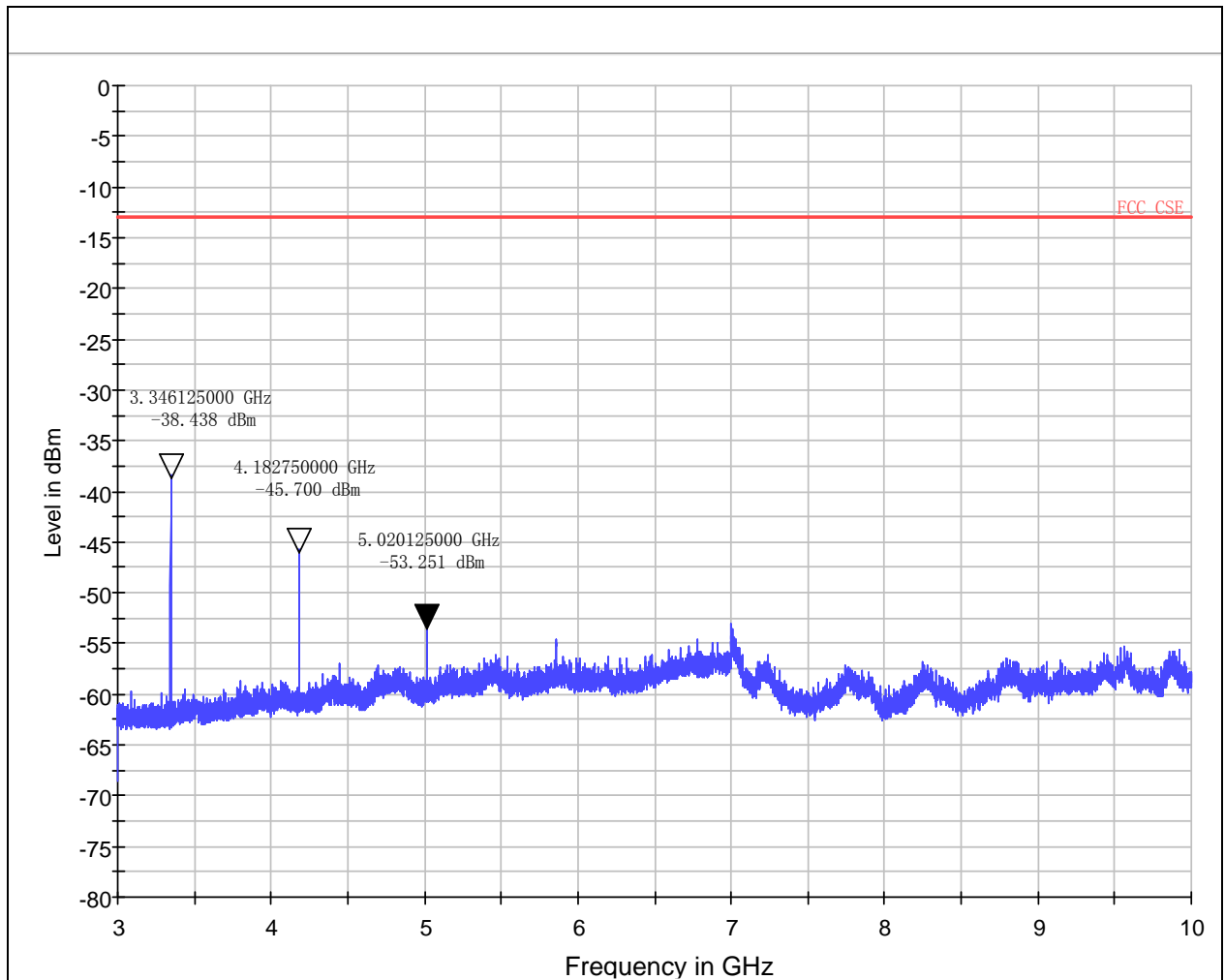


Note: The signal beyond the limit is carrier
GSM 850 190 Channel 30MHz~3GHz

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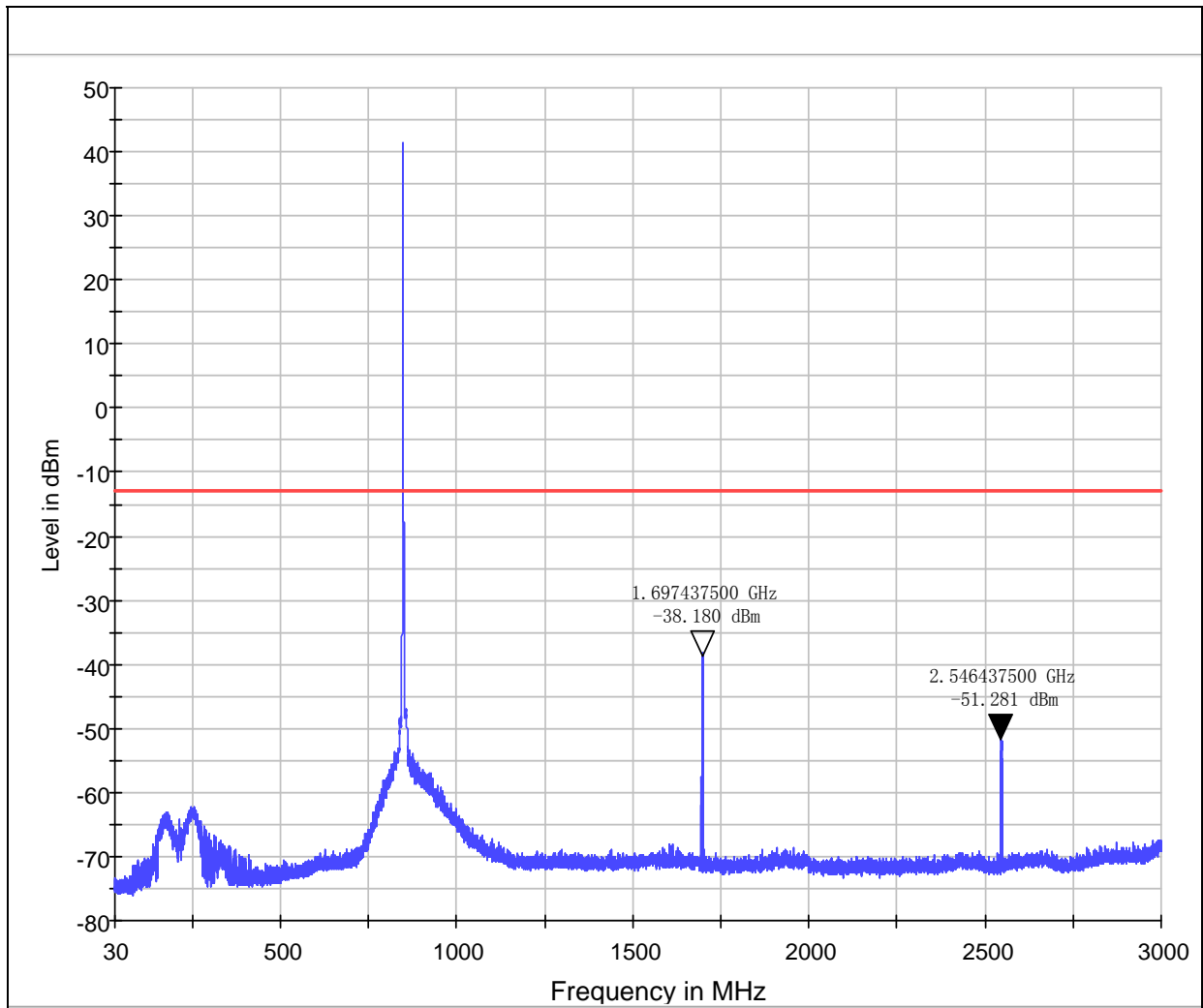
GSM 850 190 Channel 3GHz~10GHz

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GSM 850 CH251



Note: The signal beyond the limit is carrier
GSM 850 251 Channel 30MHz~3GHz

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2.8. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity	Pressure
24°C	50%	101.5kPa

Method of Measurement

The measurements procedures in TIA -603C are used.

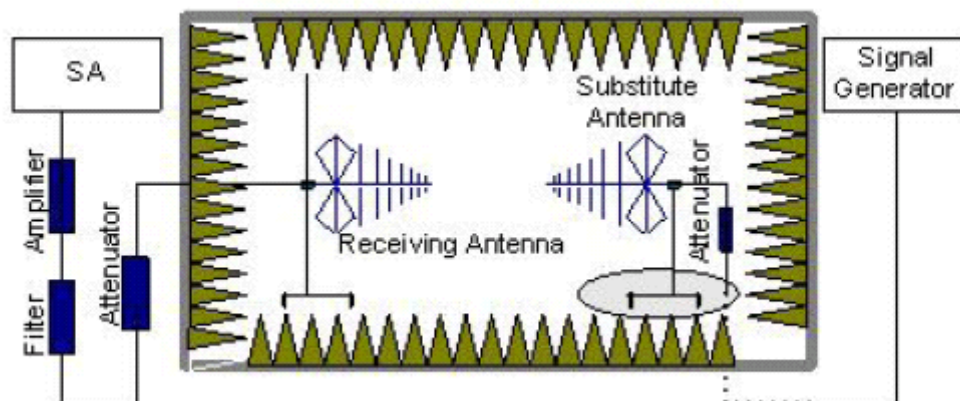
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The measurement will be conducted at three channels 128, 190, 251 of GSM850.

The procedure of Radiates Spurious Emission is as follows:

1. Pre-calibration

In an fully anechoic chamber, A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted at a 3 meter test distance from the receive antenna. An RF signal source is connected to the dipole with a Tx cable that has been constructed to not interfere with radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to input of dipole, and the power received (P_r) is recorded from the spectrum analyzer.

“Reference Path loss” is established as $P_{in} - P_r - \text{Tx cable loss} + \text{Substitution antenna gain}$.



2. EUT Test

EUT was placed on a 1.5 meter high non – conductive table at a 3 meter test distance from the receive antenna. The height of receiving antenna is 1.5 m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the table and adjusting the receiving antenna polarization. The measurement is carried out using a spectrum analyzer .The radiated emission measurements of all non-harmonic and harmonic of the transmit frequency from 30MHz to the 10th harmonic were measured with peak detector and 1MHz bandwidth. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency. If the harmonic could not be detected above the noise floor, the ambient level was recorded.

The level of the spurious emissions can be calculated through the level of the signal generator,

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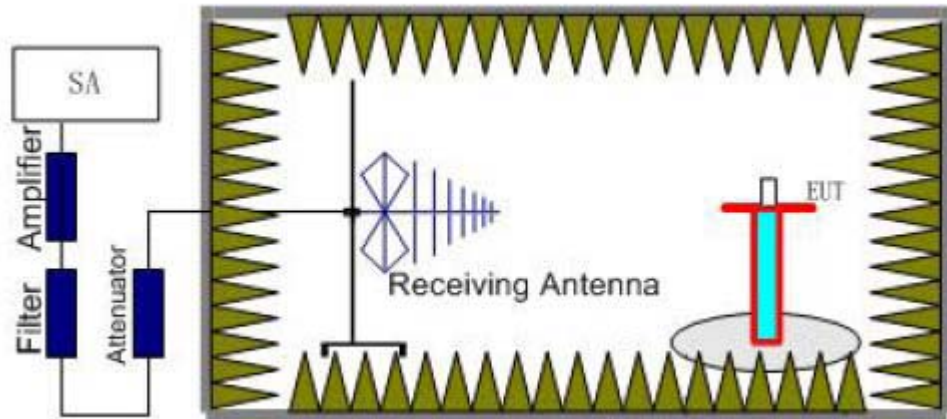
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cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

Calculation procedure:

$RSE = Rx \text{ (dBm)} + \text{Reference Path loss}$

Rx: reading of the receiver



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$. $U = 3.16$ dB.

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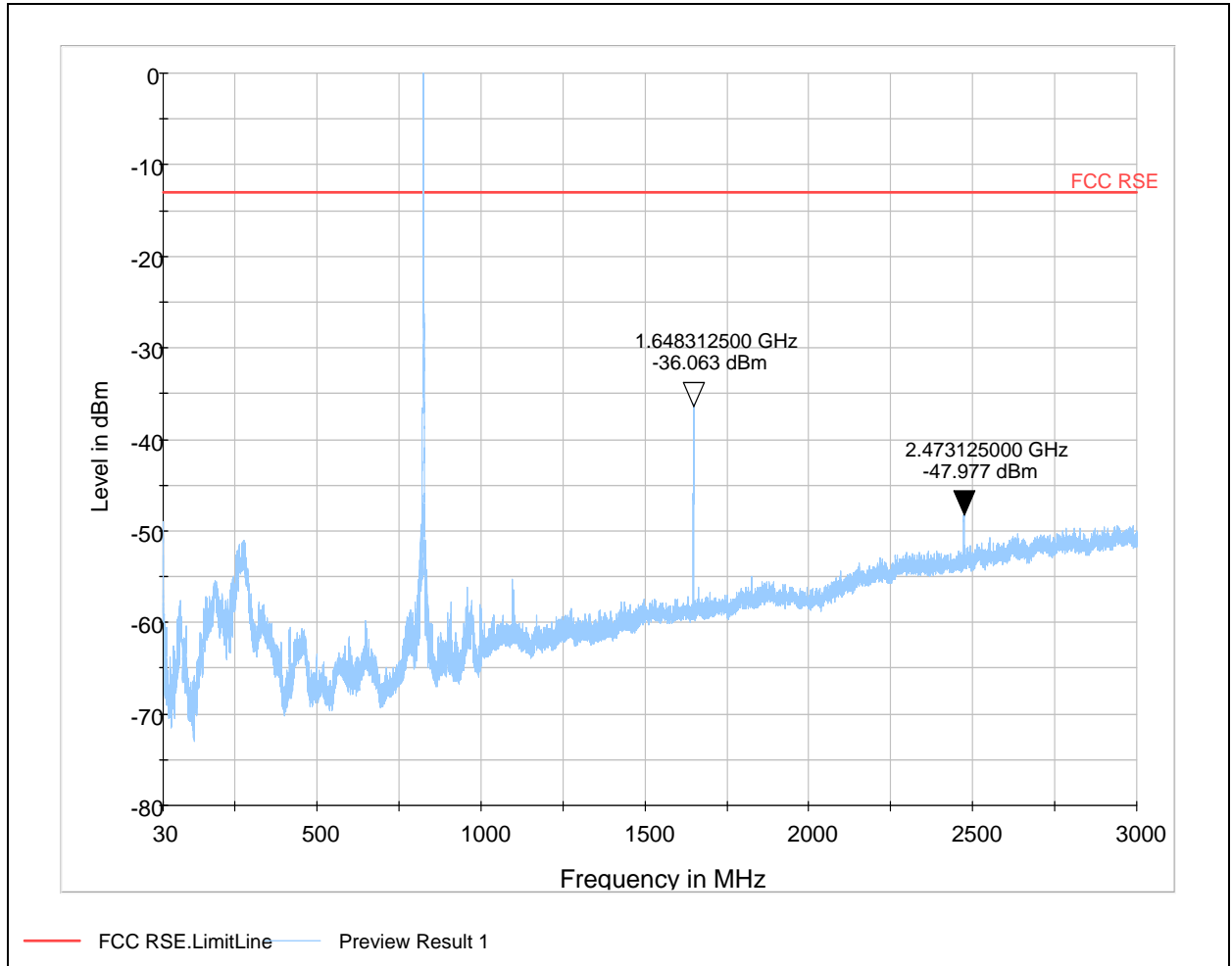
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Test Result

GSM850 CH128



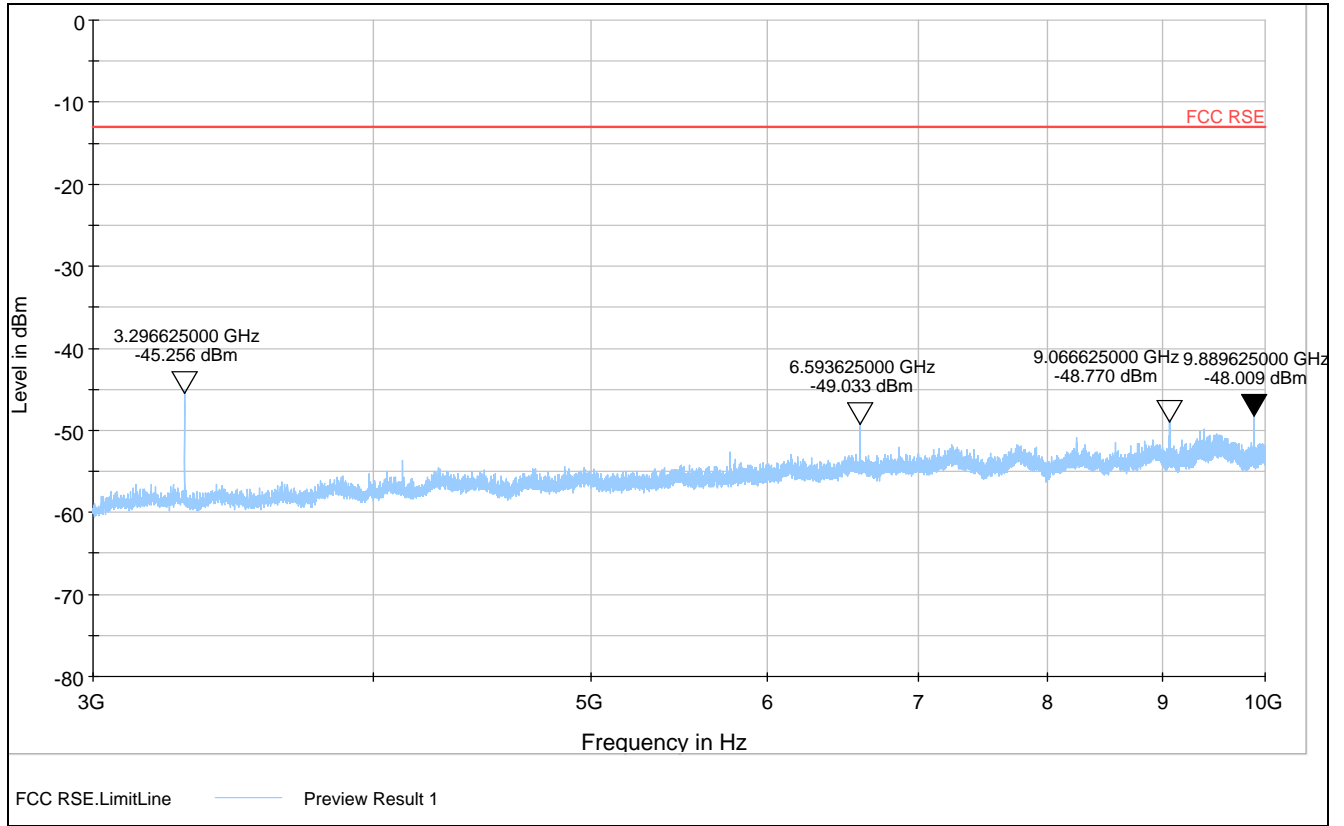
Note: The signal beyond the limit is carrier.
GSM 850 128 Channel 30MHz~3GHz

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GSM 850 128 Channel 3GHz ~10GHz

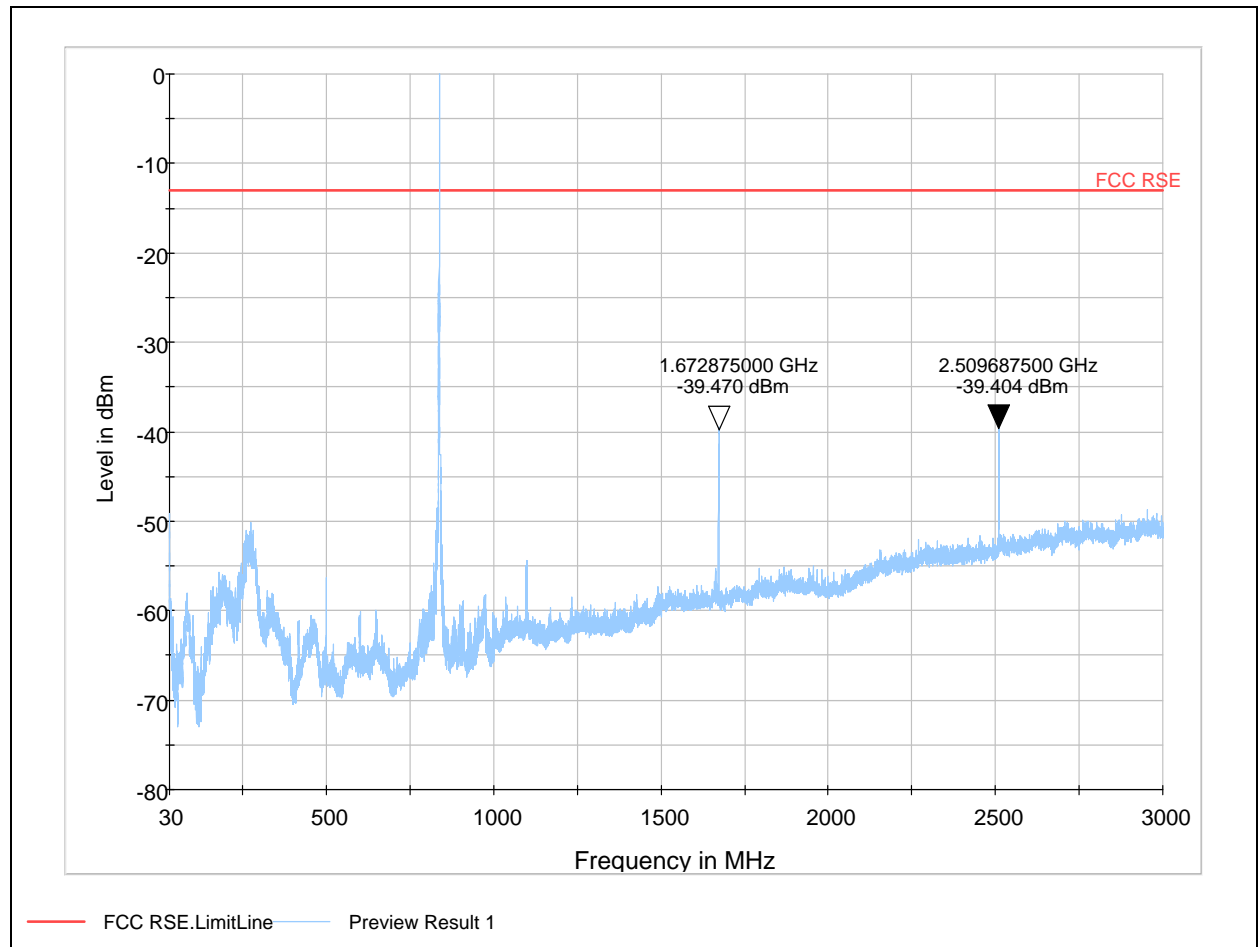
Harmonic	TX ch.128 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Turntable Azimuth(degree)
2	1648.3125	-36.063	-13	23.063	90
3	2473.125	-47.977	-13	34.977	90
4	3296.625	-45.256	-13	32.256	180
8	6593.625	-49.033	-13	36.033	180
11	9066.625	-48.770	-13	35.770	225
12	9889.625	-48.009	-13	35.009	180

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GSM 850 CH190



Note: The signal beyond the limit is carrier.

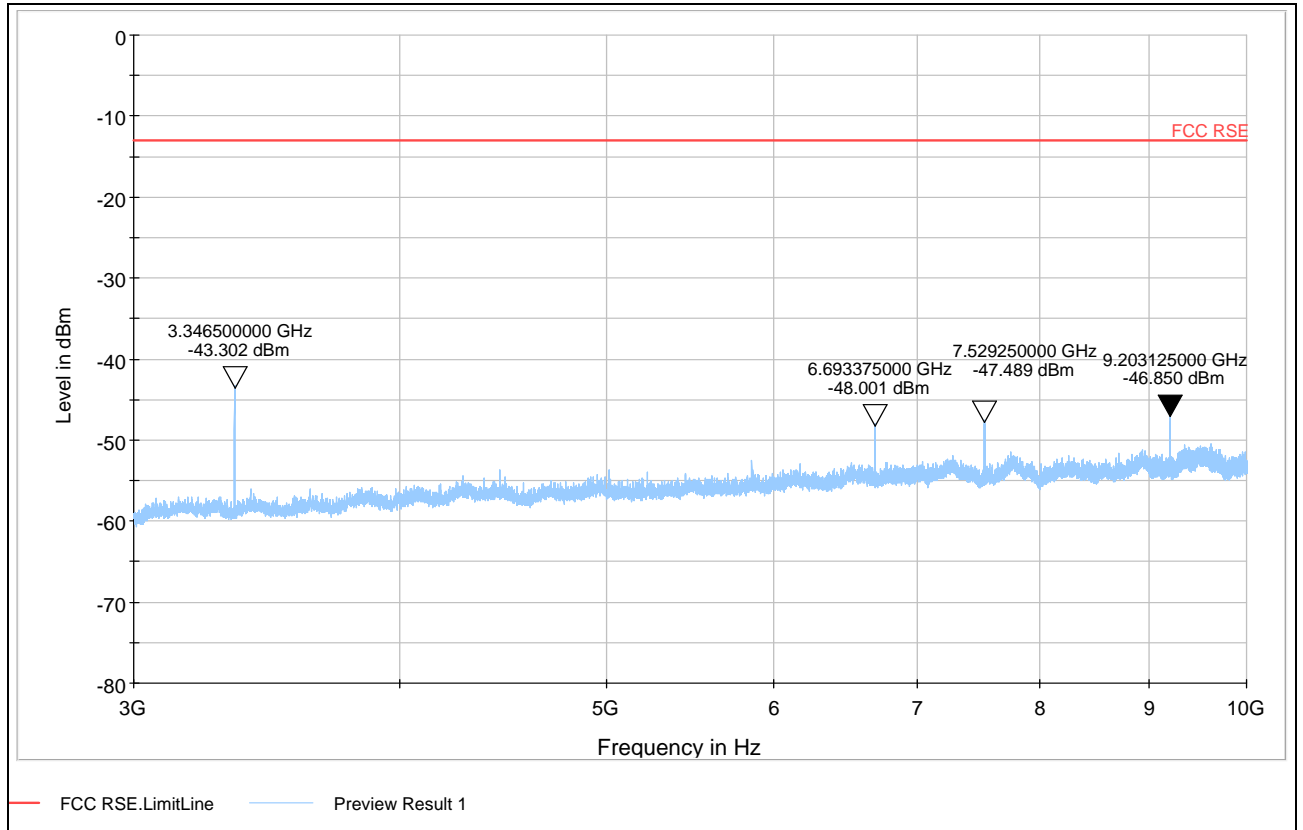
GSM 850 190 Channel 30MHz~3GHz

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GSM 850 190 Channel 3GHz ~10GHz

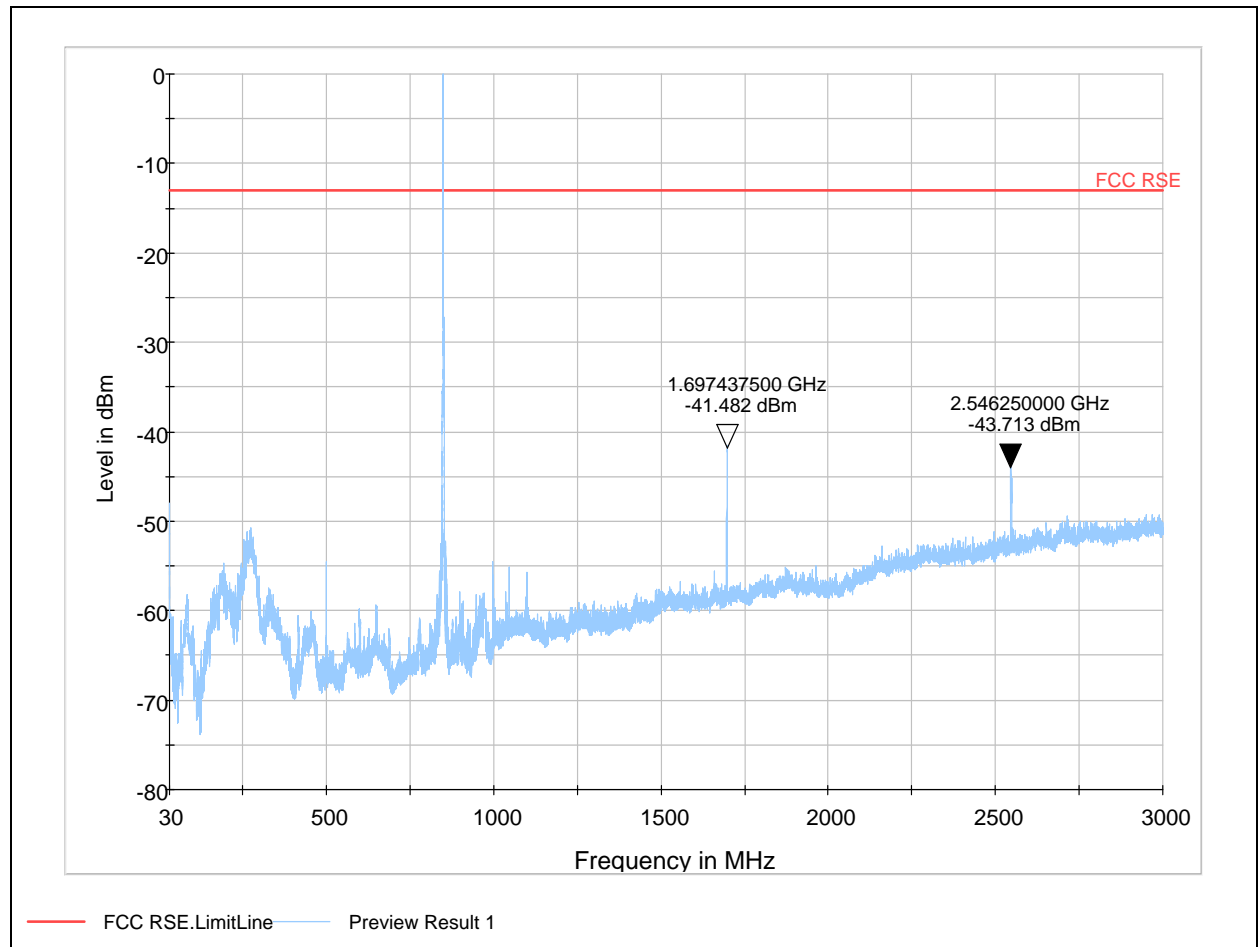
Harmonic	TX ch.190 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Turntable Azimuth(degree)
2	1672.8750	-39.470	-13	26.470	90
3	2509.6875	-39.404	-13	26.404	135
4	3346.5000	-43.302	-13	30.302	180
8	6693.3750	-48.001	-13	35.001	270
9	7529.2500	-47.489	-13	34.489	180
11	9203.1250	-46.850	-13	33.850	180

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GSM 850 CH251



Note: The signal beyond the limit is carrier.

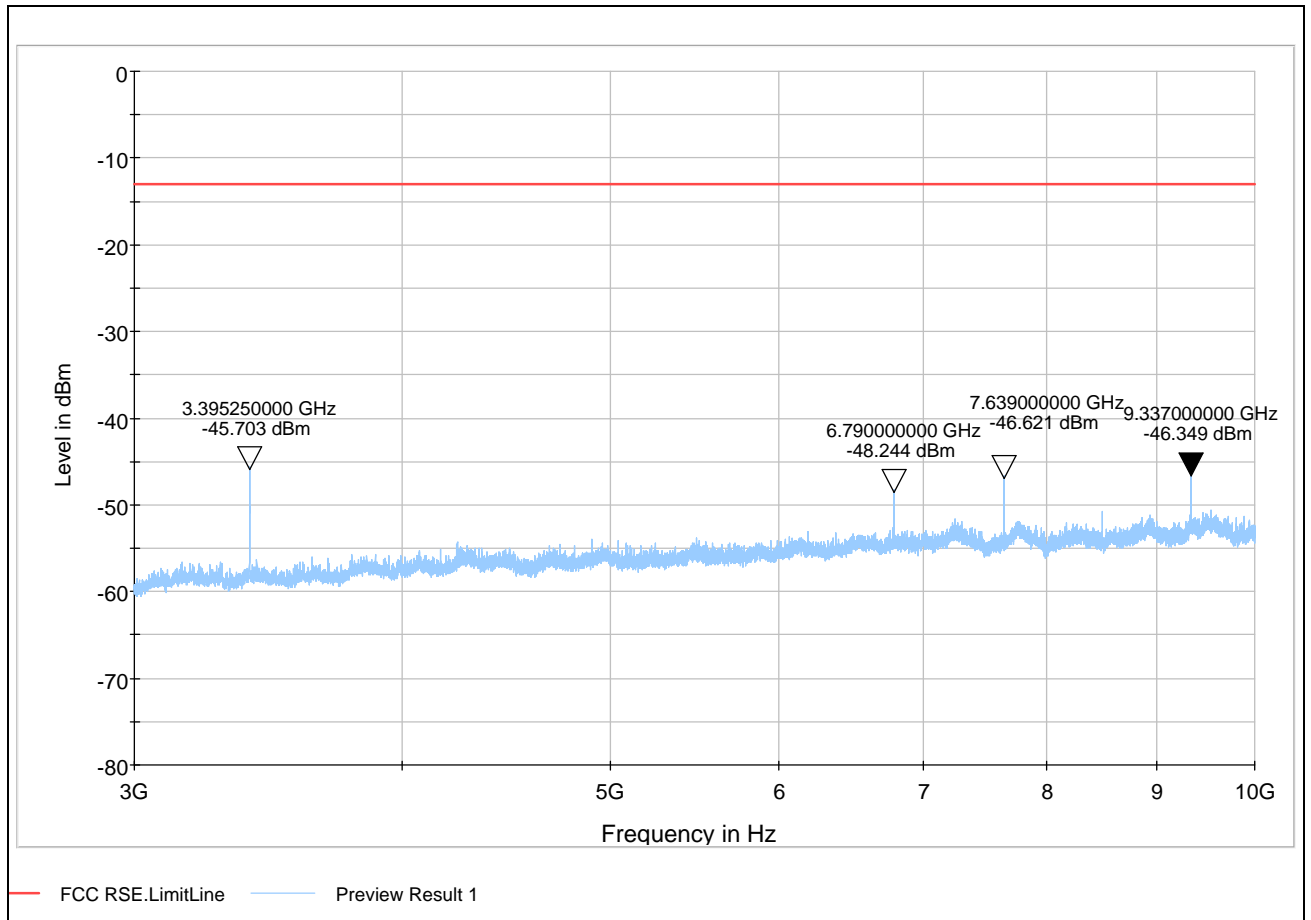
GSM 850 251 Channel 30MHz~3GHz

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GSM 850 251 Channel 3GHz ~10GHz

Harmonic	TX ch.251 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Turntable Azimuth(degree)
	1697.4375	-41.482	-13	28.482	0
	2546.2500	-43.713	-13	30.713	135
	3395.2500	-45.703	-13	32.703	225
	6790.0000	-48.244	-13	35.244	90
	7639.0000	-46.621	-13	33.621	90
	9337.0000	-46.349	-13	33.349	225

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3. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Valid Period
01	Base Station Simulator	CMU200	R&S	118133	2009-06-02	One year
02	Base Station Simulator	E5515C	Agilent	GB46490218	2008-09-14	One year
03	Signal Analyzer	FSV	R&S	100815	2009-06-29	One year
04	Signal generator	SMR27	R&S	1606.6000.02	2009-06-29	One year
05	Spectrum Analyzer	E4445A	Agilent	MY46181166	2009-06-08	One year
06	EMI Test Receiver	ESCI	R&S	100948	2009-07-02	One year
07	Trilog Antenna	VULB 9163	SCHWARZB ECK	9163-391	2009-05-14	One year
08	Horn Antenna	HF907	R&S	100126	2009-05-20	One year
09	Biconical Antenna	VUBA 9117	SCHWARZB ECK	9117-225	2009-05-14	One year
10	Quad-Ridge Horn Antenna	3164-03	ETS-Lindgren	1064	2009-05-20	One year
11	Power Splitter	11667A	Agilent	52960	NA	NA
12	DC Power Supply	GPS-3030D	GM	E877677	NA	NA
13	Climatic Chamber	ESS-SDH401	YIN HE	2006001	2009-02-23	One year
14	Semi-Anechoic Chamber	9.6*6.7*6.6m	ETS-Lindgren	NA	NA	NA
15	OTA Fully-Anechoic Chamber	7.4*3.6*3.6m	ETS-Lindgren	3658	NA	NA
16	EMI test software	ES-K1	R&S	NA	NA	NA
17	OTA test software	EMQuest	ETS-Lindgren	NA	NA	NA

*****END OF REPORT BODY*****

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Picture 1-1 EUT



Picture 1-2 EUT
Picture 1 EUT

A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup