FCC PART 22H/24E MEASURMENT AND TEST REPORT

For

Everwise Ltd.

**Room 1101-3 Well Tech Center, 7-9 Pat Tat Street,
San Po Kong, Kowloon, Hong Kong**

E.U.T.: 911 Caller

Model Name: 911T

Trade name: 911 HELP NOW

FCC ID: 2AA4W911T13

Report Number: NTC1309284F

Test Date(s): September 23 2013 to September 30 2013

Report Date(s): September 30, 2013

Prepared by

Dongguan NTC Co., Ltd.

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Prepared By

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Rose Hu / Engineer

Approved & Authorized Signer

Sunm Lv / Q.A. Director

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1 GENERAL INFORMATION

1.1 Product Description for Equipment under Test

This is a GSM emergency phone, it's power by 3*1.5V AAA battery. For more details features, please refer to User's Manual.

Manufacturer	:	Prosoyo Technology Ltd.
Address	:	Tai Po Industrial Estate, Gang Zi District, Chang Ping, Dong Guan, Guang Dong, China
Frequency:	:	Cellular Band: 824.2-848.8MHz (TX) 869.2-893.8MHz(RX) PCS Band: 1850.2-1909.8MHz (TX) 1930.2-1989.8MHz(RX)
Modulation	:	GMSK (GSM/PCS)
Max RF Output Power	:	32.50dBm (Cellular Band) 28.88dBm (PCS Band)
Antenna Type	:	PCB
Antenna Gain	:	0dBi (Declaration by manufacturer)
Power Supply	:	3* 1.5V AAA Battery
	:	
Model name	:	911T
Remark	:	N/A

1.2 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Public Mobile Services
Part 24 Subpart E - Personal Communication Services
Applicable Standards: TIA/EIA 603-C, ANSI C63.4-2003.
The radiated testing was performed at an antenna-to-EUT distance of 3 meters..

1.3 Special Accessories

Not available for this EUT intended for grant.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Objective

This type approval report is prepared on behalf of Everwise Ltd. in accordance with Part 2, Subpart J, Part 22 Subpart H, and Part 24 Subpart E of the Federal Communication Commissions rules.
The objective is to determine compliance with FCC rules for output power, occupied bandwidth, and spurious emission at antenna terminal, spurious radiated emission, frequency stability, band edge and radiated margin.

1.6 Test Facility and Location

Accredited by FCC, August 02, 2011
The Certificate Registration Number is 665078.

Accredited by Industry Canada, July 01, 2011
The Certificate Registration Number is 46405-9743.

Dongguan NTC Co., Ltd.

Building D, Gaosheng Science and Technology Park,
Hongtu Road, Nancheng District, Dongguan City,
Guangdong Province, China

1.7 Summary of Test Results

FCC Rules	Description Of Test	Result
§2.1046 §22.913(a) §24.232(c)	RF Output Power	Compliant
§ 2.1049 § 22.905 § 22.917 § 24.238	Occupied Bandwidth	Compliant
§ 2.1055 § 22.355 § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917 (a) § 24.238 (a)	Out of band emission, Band Edge	Compliant
§ 2.1047	Modulation Characteristics	N/A
§ 2.1051 § 22.917 (a) § 24.238 (a)	Spurious Emissions at Antenna Terminal	Compliant
§ 2.1053 § 22.917 (a) § 24.238 (a)	Field Strength of Spurious Radiation	Compliant
§1.1307, §2.1093	RF Exposure (SAR)	Compliant(refer to SAR report please)

* SAR report provide by SIEMIC Testing and Certification Services.

2. RF OUTPUT POWER

2.1 Applicable Standard

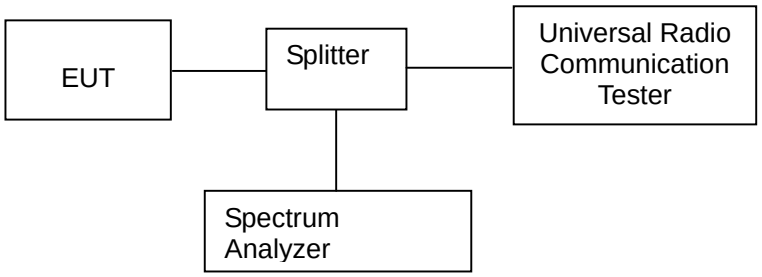
According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (C), in no case may the peak output power of a base station transmitter exceed 2 watt EIRP.

2.2 Test Procedure

Conducted Method:

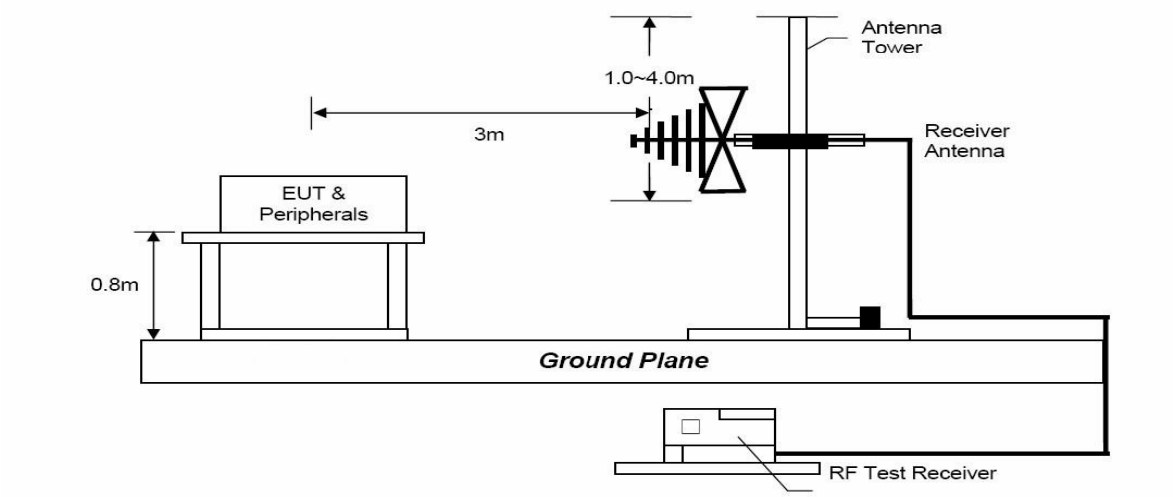
The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a spectrum analysis. Transmitter output was read off the spectrum analysis in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to spectrum analysis reading.



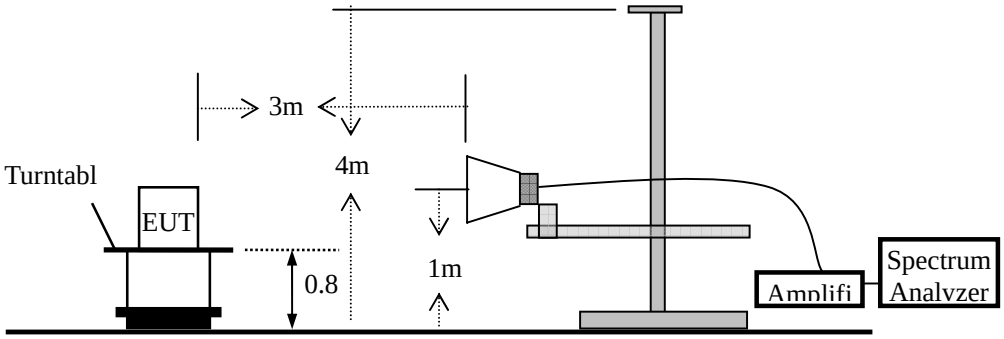
Radiated method:

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 1m to 4m. The reading was recorded and the field strength (E in dBuV/m) was calculated. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB) EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

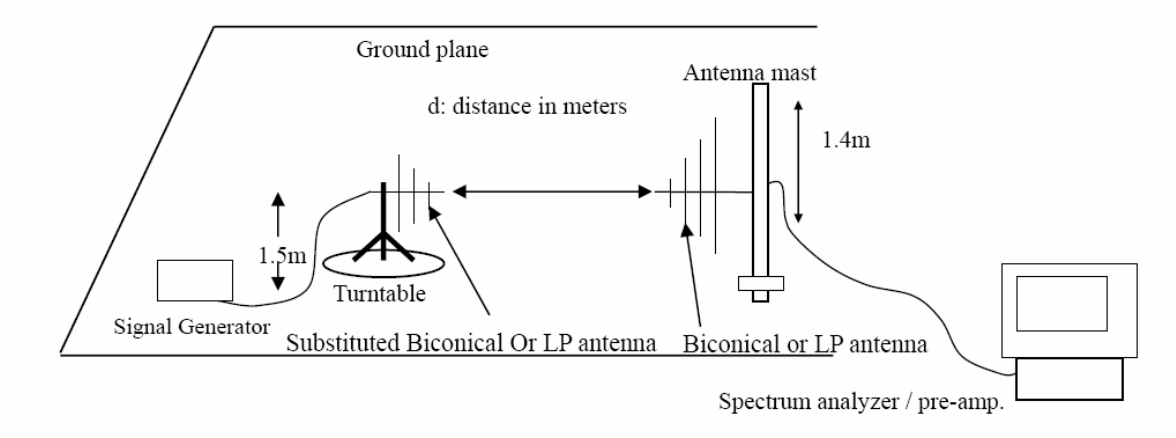
Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-Up, Frequency above 1GHz



Substituted Method Test Set-UP



Conducted Power:

Cellular Band (Part 22H)				
Humidity :		52 %	Temperature :	23 ℃
Test Result:		PASS	Test By:	Sance
Mode	Channel	**Frequency (MHz)**	**Output Power (dBm)**	Tune up power tolerant
GSM 850	128	824.2	32.28	32±1
	189	836.4	32.41	32±1
	251	848.8	32.50	32±1

PCS Band (Part 24E)				
Humidity :		52 %	Temperature :	23 ℃
Test Result:		PASS	Test By:	Rose
Mode	Channel	**Frequency (MHz)**	**Output Power (dBm)**	Tune up power tolerant
GSM 1900	512	1850.2	28.88	29±1
	661	1880.0	28.54	29±1
	810	1909.8	28.51	29±1

Radiated Power (ERP and EIRP)

Cellular Band (Part 22H)							
Humidity :		52 %	Temperature :			23 ℃	
Mode:		GSM850	Test By:			Sance	
Test Result:		PASS					
Channel	**Frequency (MHz)**	**Substituted level (dBm)**	**Polarization (H/V) Antenna**	**Gain Correction (dBi)**	**Cable Loss (dB)**	**Absolute Level (dBm)**	**Limit (dBm)**
128	**824.2**	**21.78**	**H**	**7.86**	**0.9**	**28.74**	**38.45**
		8.65	**V**	**7.86**	**0.9**	**15.61**	**38.45**
189	**836.4**	**22.20**	**H**	**7.81**	**0.9**	**29.11**	**38.45**
		9.81	**V**	**7.81**	**0.9**	**16.72**	**38.45**
251	**848.8**	**22.04**	**H**	**7.81**	**0.9**	**28.95**	**38.45**
		9.68	**V**	**7.81**	**0.9**	**16.59**	**38.45**

PCS Band (Part 24E)							
Humidity :		52 %	Temperature :			23 ℃	
Mode:		GSM1900	Test By:			Sance	
Test Result:		PASS					
Channel	**Frequency (MHz)**	**Substituted level (dBm)**	**Polarization (H/V) Antenna**	**Gain Correction (dBi)**	**Cable Loss (dB)**	**Absolute Level (dBm)**	**Limit (dBm)**
512	**1850.2**	**20.83**	**H**	**8.04**	**2.3**	**26.57**	**33.0**
		19.78	**V**	**8.04**	**2.3**	**25.52**	**33.0**
661	**1880.0**	**21.22**	**H**	**8.06**	**2.3**	**26.98**	**33.0**
		20.25	**V**	**8.06**	**2.3**	**26.01**	**33.0**
810	**1909.8**	**20.94**	**H**	**8.09**	**2.3**	**26.73**	**33.0**
		19.85	**V**	**8.09**	**2.3**	**25.64**	**33.0**

3. Test OCCUPIED BANDWIDTH

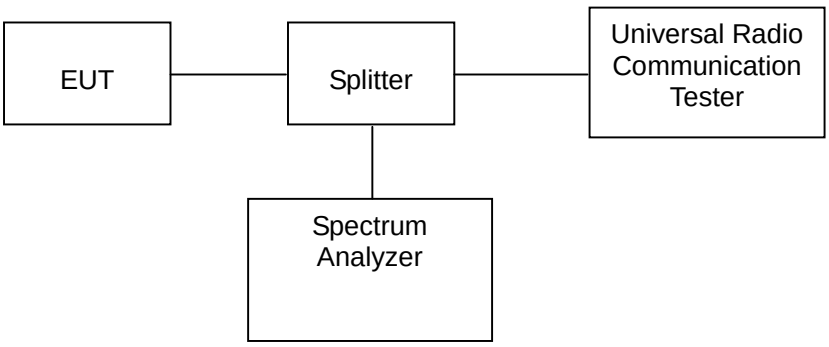
3.1 Applicable Standard

CFR 47 §2.1049, §22.917, §22.905 and §24.238.

3.2 Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 30 kHz (Cellular /PCS) and the 26 dB & 99% bandwidth was recorded.

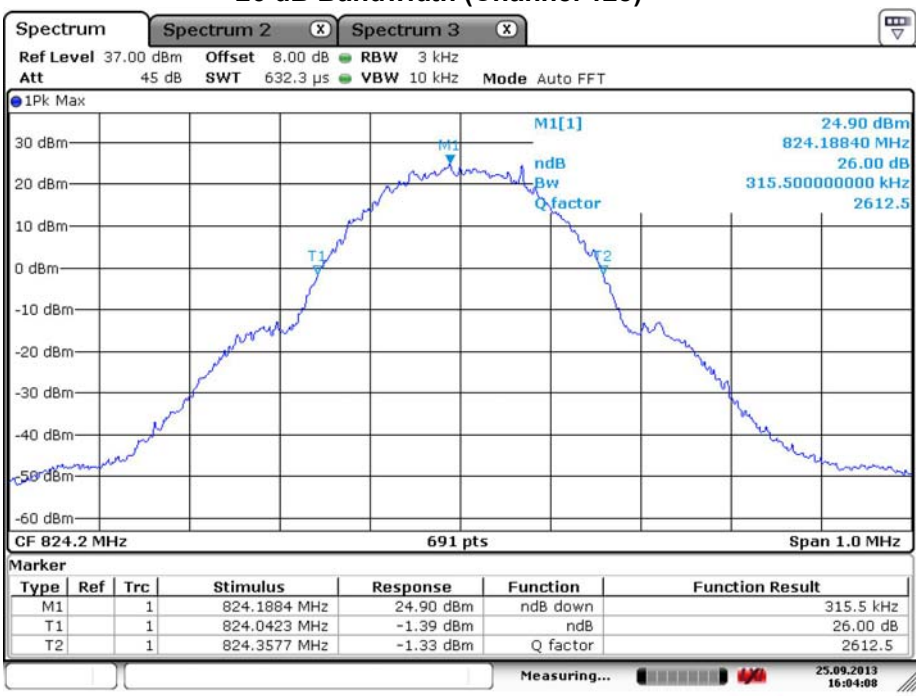


Cellular Band (Part 22H)				
Humidity :		52 %	Temperature :	23 ℃
Test Result:		PASS	Test By:	Sance
Mode	Channel	**Frequency (MHz)**	**99% Power Bandwidth (kHz)**	**26 dB Bandwidth (kHz)**
GSM850	128	824.2	241.6787	315.5000
	189	836.4	243.1259	314.0000
	251	848.8	244.5731	314.0000

PCS Band (Part 24E)				
Humidity :		52 %	Temperature :	23 ℃
Test Result:		PASS	Test By:	Sance
Mode	Channel	**Frequency (MHz)**	**99% Power Bandwidth (kHz)**	**26 dB Bandwidth (kHz)**
GSM1900	512	1850.2	241.6787	314.0000
	661	1880.0	243.1259	315.5000
	810	1909.8	243.1259	314.0000

Cellular Band (Part 22H)

26 dB Bandwidth (Channel 128)



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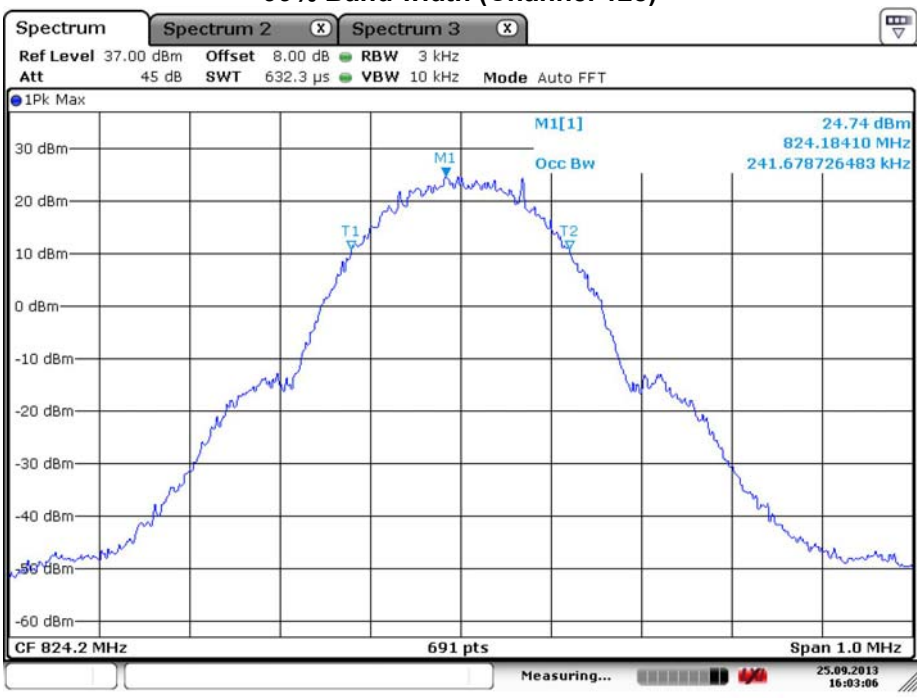
99% Band width (Channel 128)



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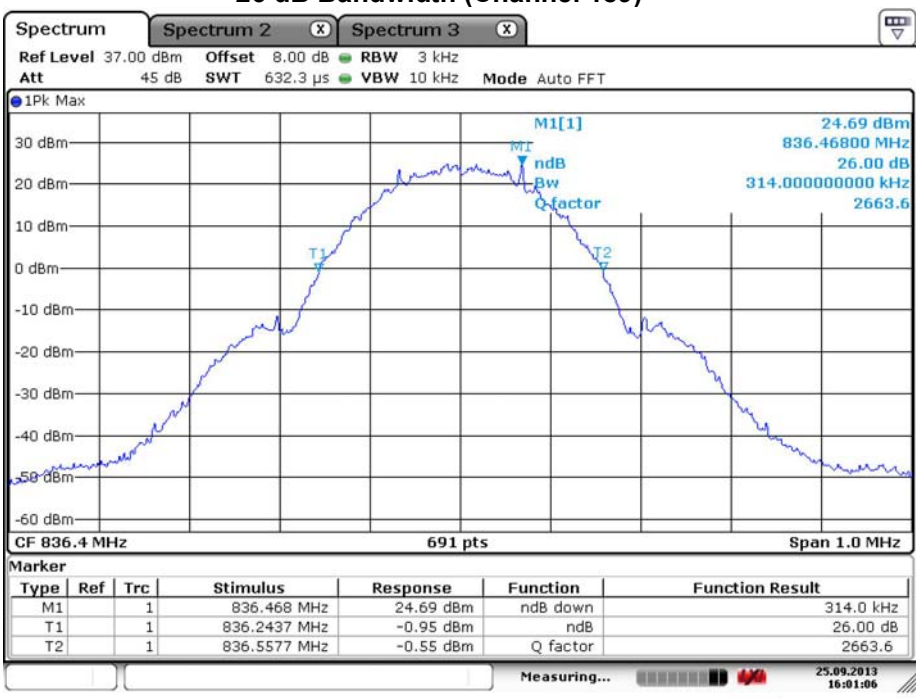
Cellular Band (Part 22H)

26 dB Bandwidth (Channel 189)



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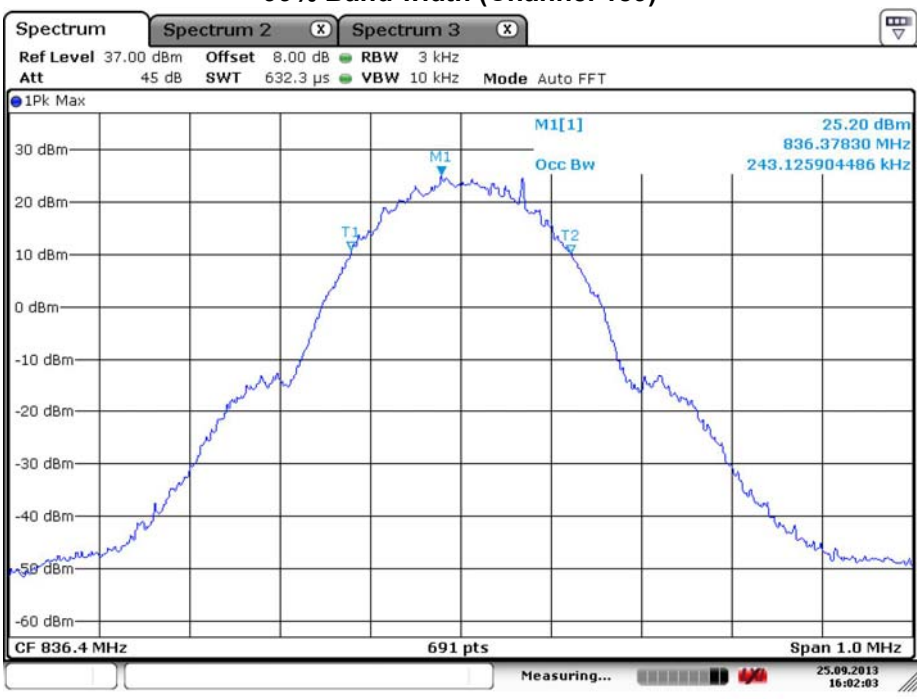
99% Band width (Channel 189)



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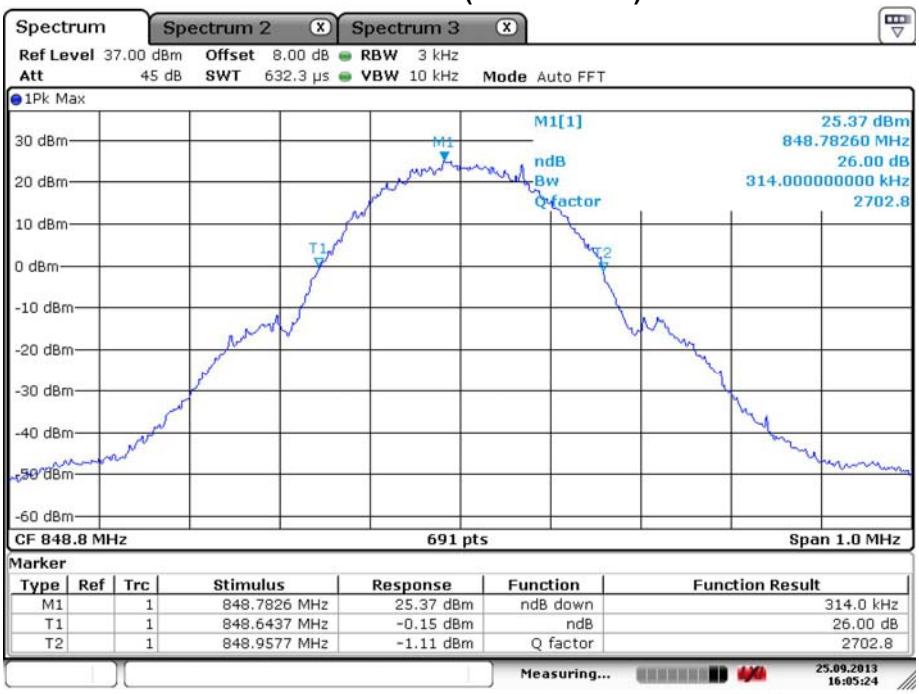
Cellular Band (Part 22H)

26 dB Bandwidth (Channel 251)



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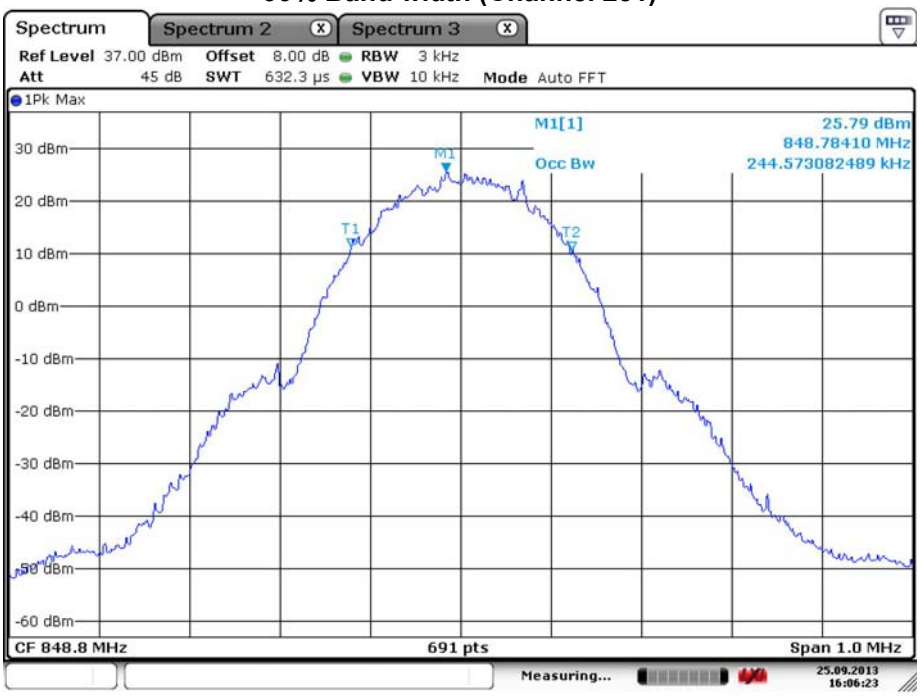
99% Band width (Channel 251)



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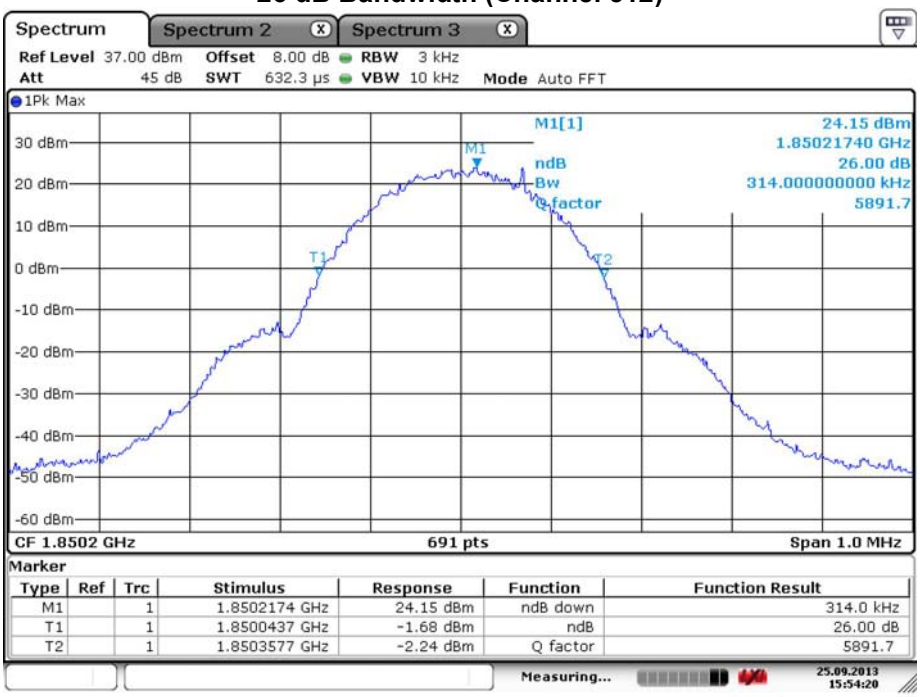
PCS Band (Part 24H)

26 dB Bandwidth (Channel 512)



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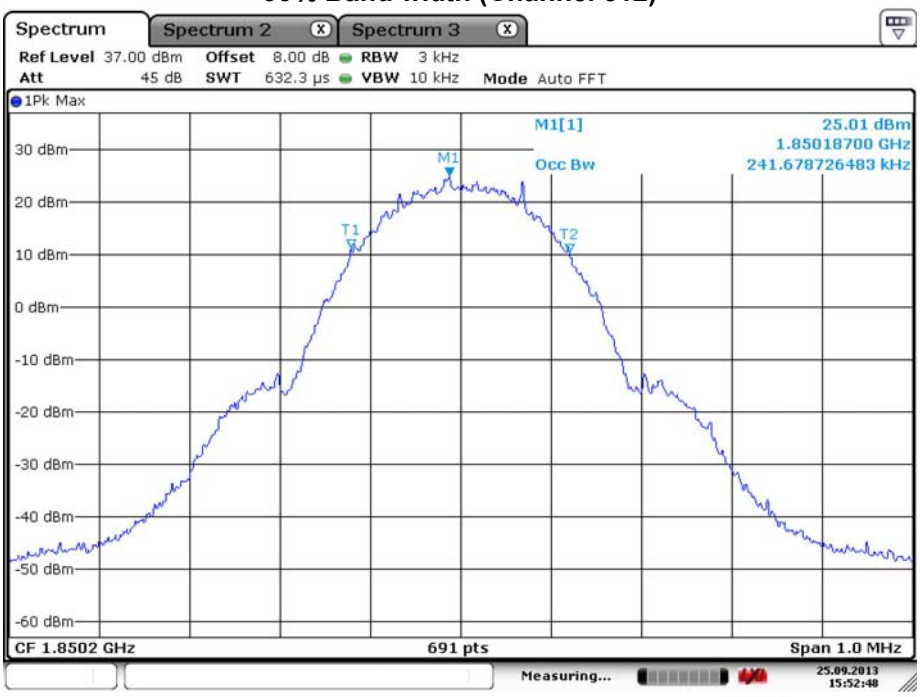
99% Band width (Channel 512)



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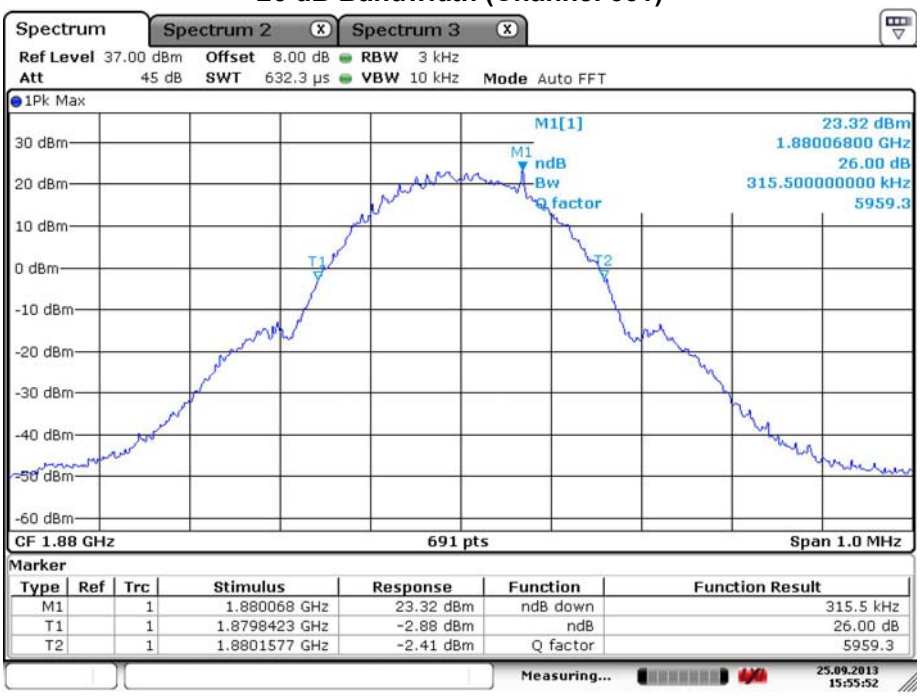
PCS Band (Part 24H)

26 dB Bandwidth (Channel 661)



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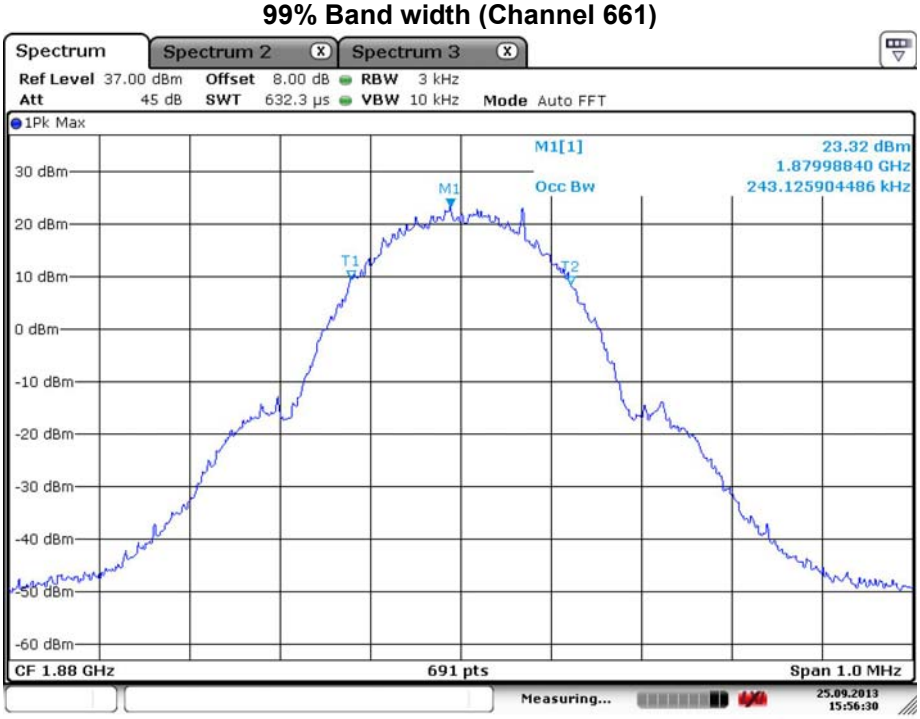
99% Band width (Channel 661)



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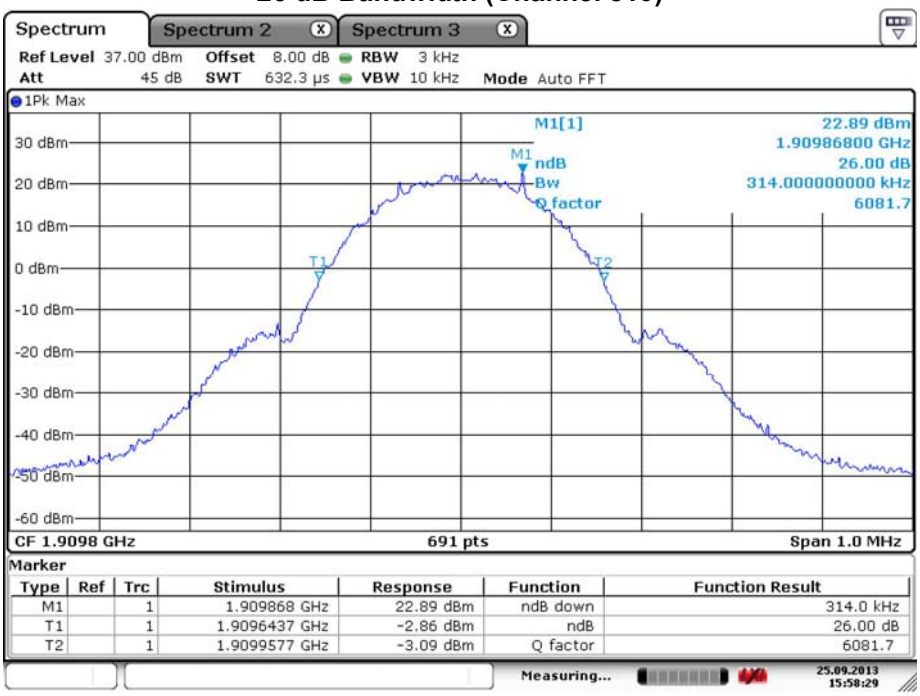
PCS Band (Part 24H)

26 dB Bandwidth (Channel 810)



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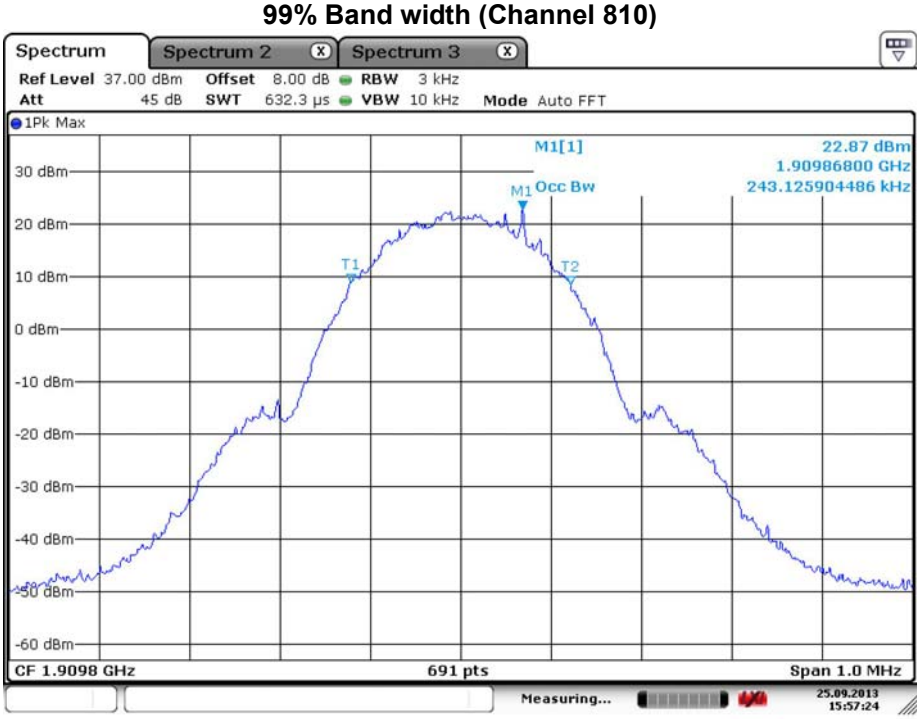
99% Band width (Channel 810)



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4. FREQUENCY STABILITY

4.1 Applicable Standard

CFR47 § 2.1055 (a), § 2.1055 (d), §22.355, §24.235

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

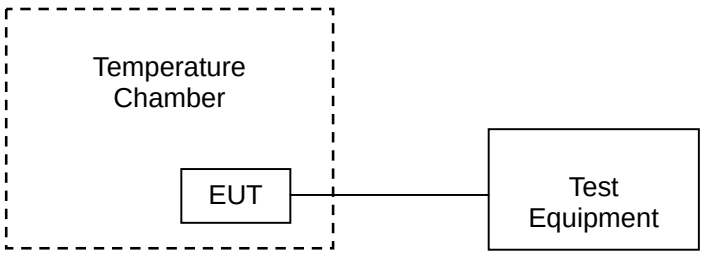
According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

4.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 30 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.



Cellular Band			
Humidity :	52 %	Temperature :	23 ℃
Mode:	GSM850	Test By:	Sance
Test Result:	PASS		

Middle channel, f_o =836.4MHz;

Temperature (℃)	Power Supplied (Vdc)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	4.5	23	0.028	2.5
0		27	0.032	2.5
10		26	0.031	2.5
20		24	0.029	2.5
30		28	0.033	2.5
40		25	0.030	2.5
50		29	0.035	2.5
25	4.5	26	0.031	2.5
	4.2	24	0.029	2.5
	5.0	29	0.035	2.5

Note: The manufacturer declared that the EUT could work within temperature range -10℃ to 50℃ and voltage range DC 4.2V to DC 5.0V. The nominal voltage is DC 4.5V.

PCS Band			
Humidity :	52 %	Temperature :	23 ℃
Mode:	GSM1900	Test By:	Sance
Test Result:	PASS		

Middle channel, f_o =1880.0MHz;

Temperature (℃)	Power Supplied (Vdc)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10	4.5	-19	-0.010	2.5
0		-15	-0.008	2.5
10		-18	-0.010	2.5
20		-15	-0.008	2.5
30		-17	-0.009	2.5
40		-21	-0.011	2.5
50		-16	-0.009	2.5
25	4.5	-16	-0.009	2.5
	4.2	-20	-0.011	2.5
	5.0	-19	-0.010	2.5

Note: The manufacturer declared that the EUT could work within temperature range -10℃ to 50℃ and voltage range DC 4.2V to DC 5.0V. The nominal voltage is DC 4.5V.

5. BAND EDGES

5.1 Applicable Standard

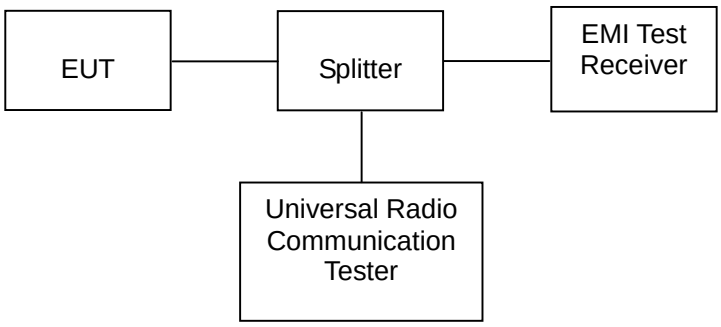
According to § 22.917(a), the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to §24.238(a), the power of any emissions 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.

5.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 3 kHz.



Cellular Band			
Humidity :	52 %	Temperature :	23 ℃
Test Result:	PASS	Test By:	Sance
Mode	GSM850		
Frequency (MHz)	**Emission (dBm)**		Limit **(dBm)**
824	-13.87		-13
849	-13.82		-13

Note: 1. Correction Factor(dB)=10log(1% Emission BW/RBW)≈0.22

2. Band Edge= Measurement Value + Correction Factor (dB)

3. Offset= External attenuator+cable loss+10log(1%Emission BW/RBW)=8.0dB

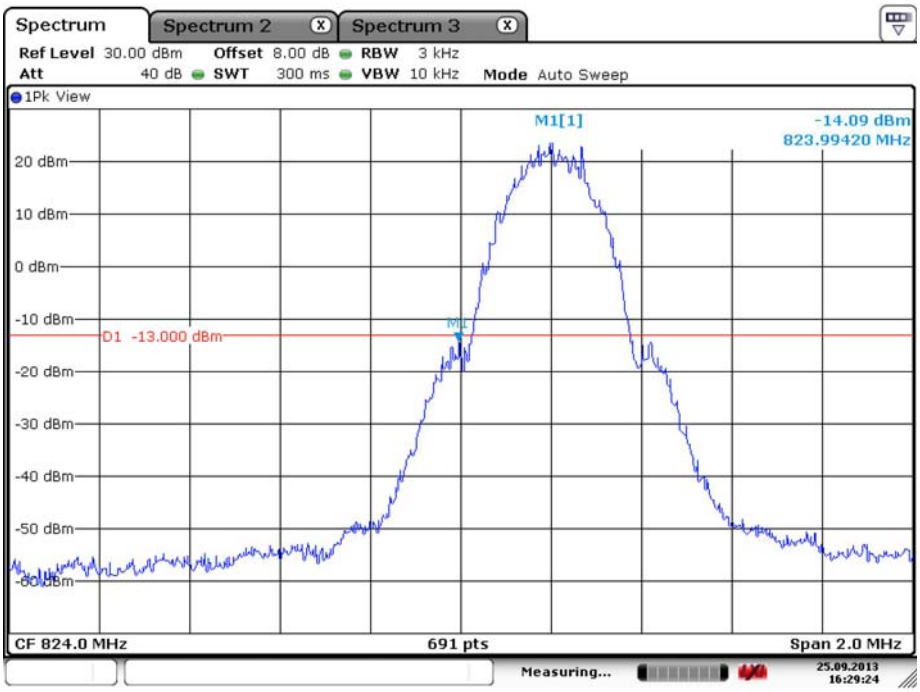
PCS Band			
Humidity :	52 %	Temperature :	23 ℃
Test Result:	PASS	Test By:	Sance
Mode	GSM1900		
Frequency (MHz)	**Emission (dBm)**		Limit **(dBm)**
1850	-14.54		-13
1910	-15.57		-13

Note: 1. Correction Factor(dB)=10log(1% Emission BW/RBW)≈0.22

2. Band Edge= Measurement Value + Correction Factor (dB)

3. Offset=External attenuator+cable loss+10log(1%Emission BW/RBW)=8.0dB

Cellular Band, Low Channel (GSM)



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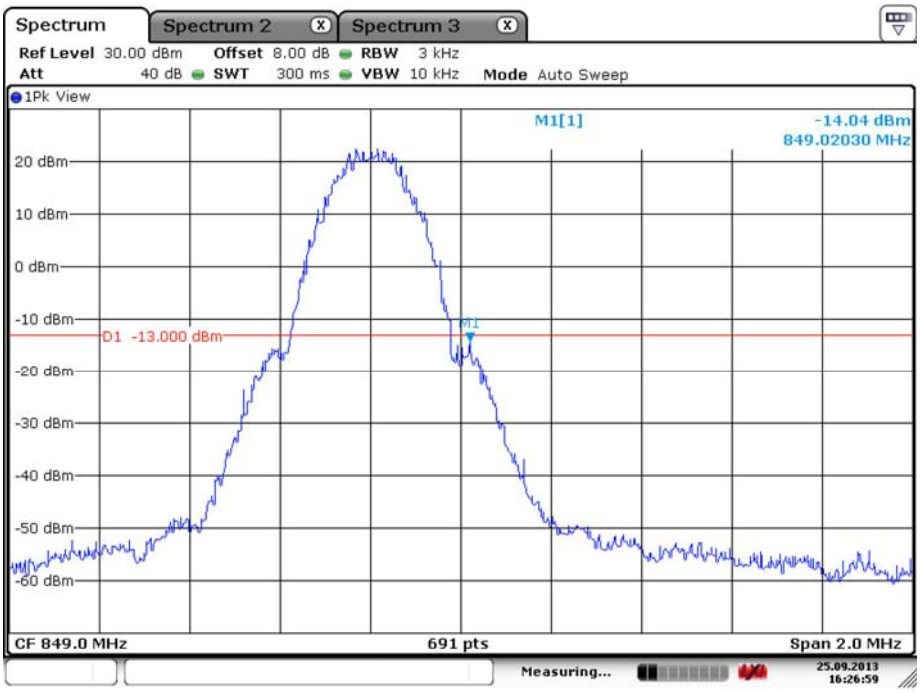
Cellular Band, High Channel (GSM)



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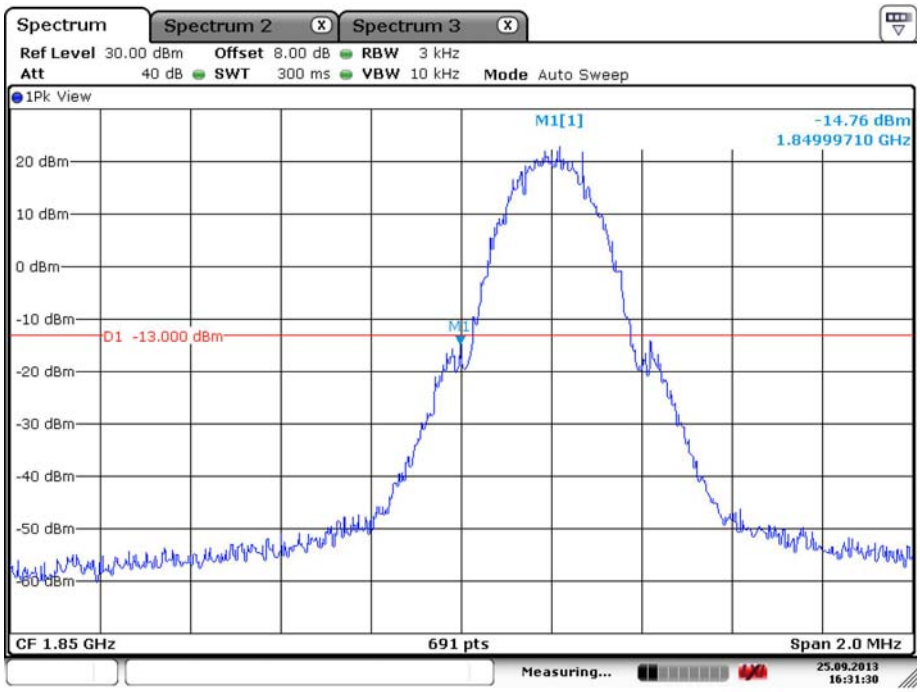
PCS Band, Low Channel (GSM)



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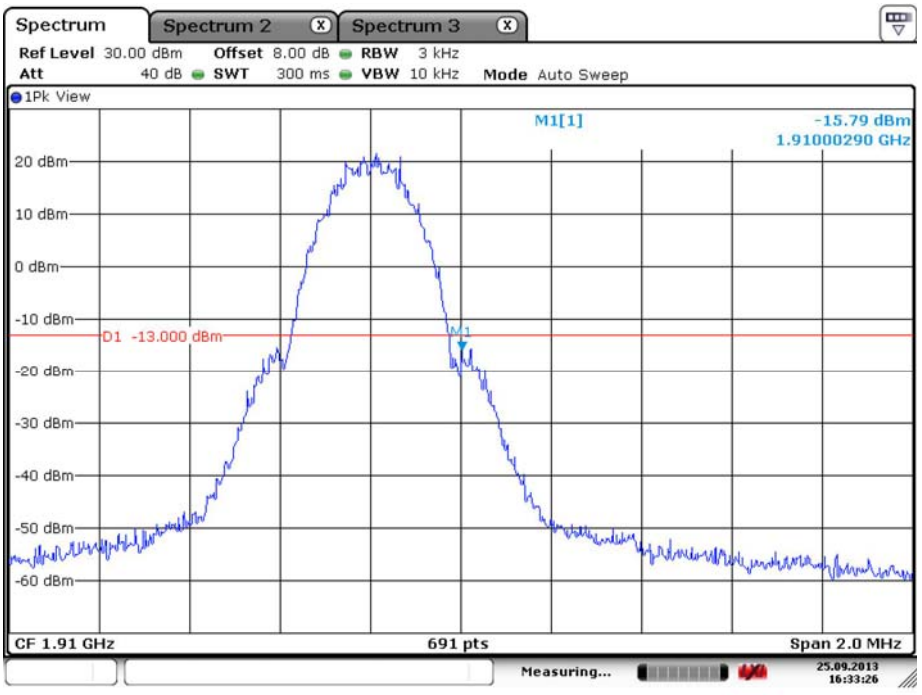
PCS Band, High Channel (GSM)



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6. MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7. SPURIOUS EMISSIONS AT ANTENNA TERMINALS

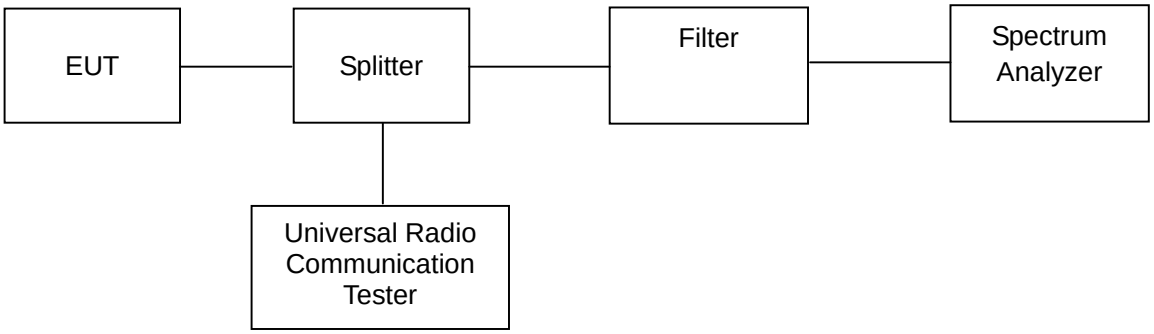
7.1 Applicable Standards

CFR 47 §2.1051, §22.917(a) and §24.238(a).

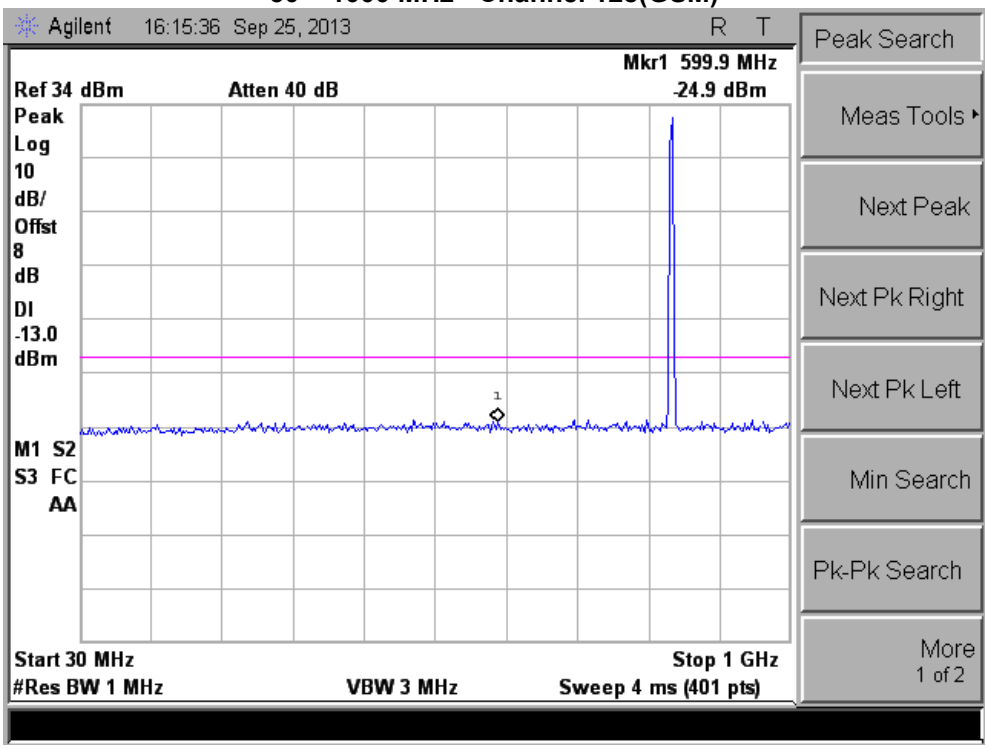
The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1051.

7.2 Test Procedure

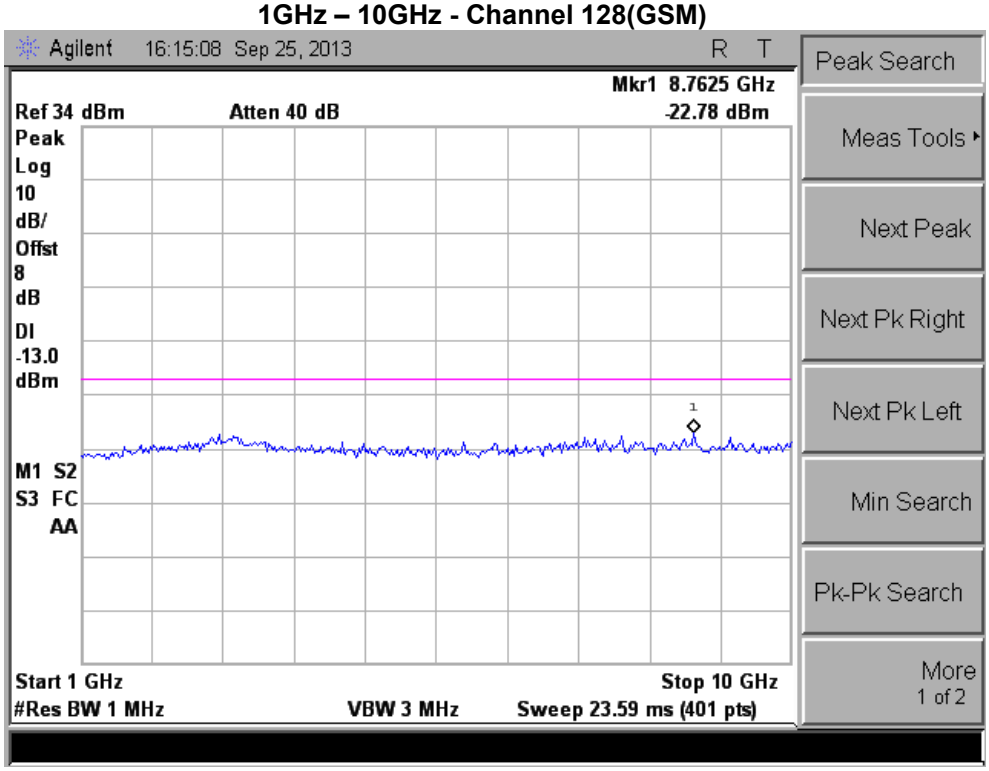
The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate
attenuation. The resolution bandwidth of the spectrum analyzer was set at 1000 kHz. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.



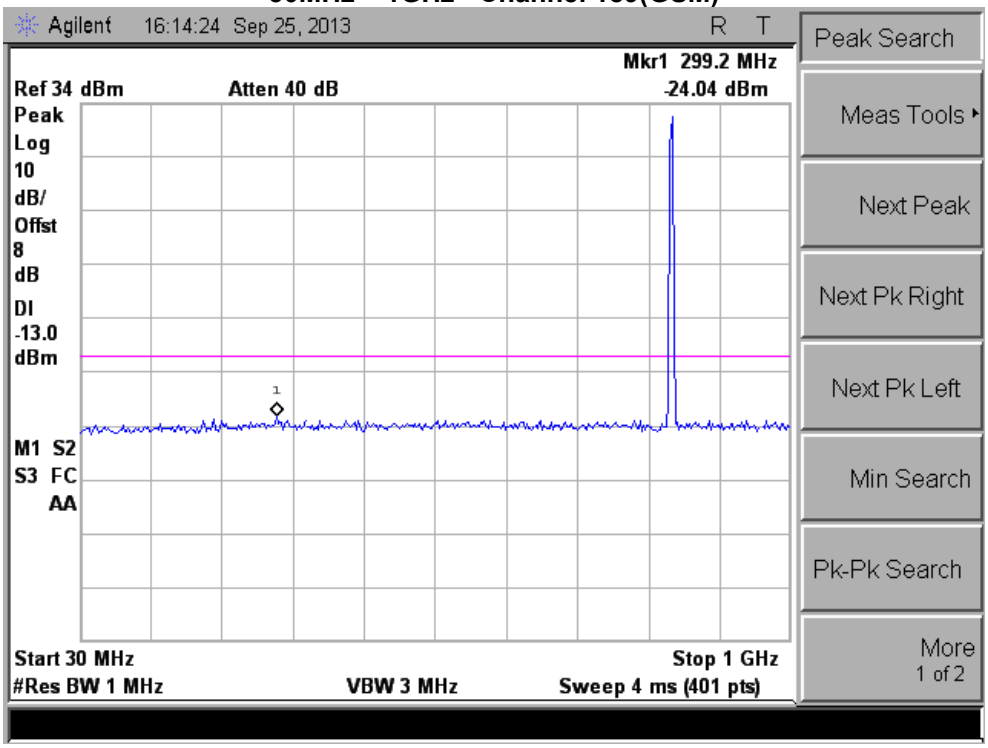
Cellular Band (Part 22H)
30 – 1000 MHz - Channel 128(GSM)



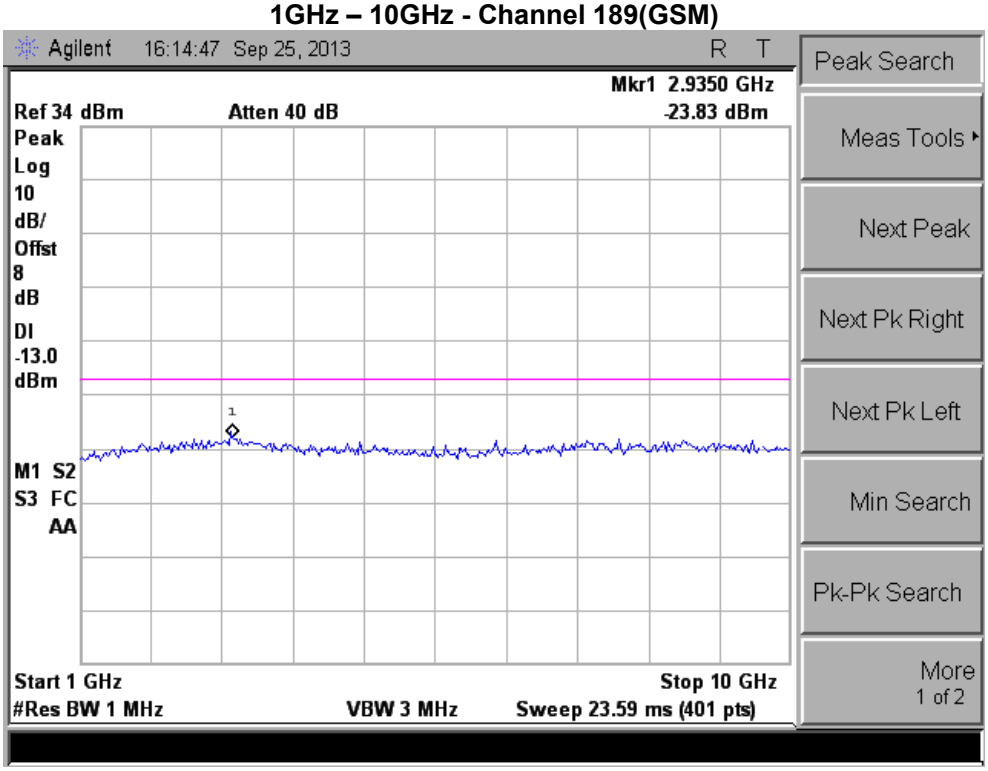
1GHz – 10GHz - Channel 128(GSM)



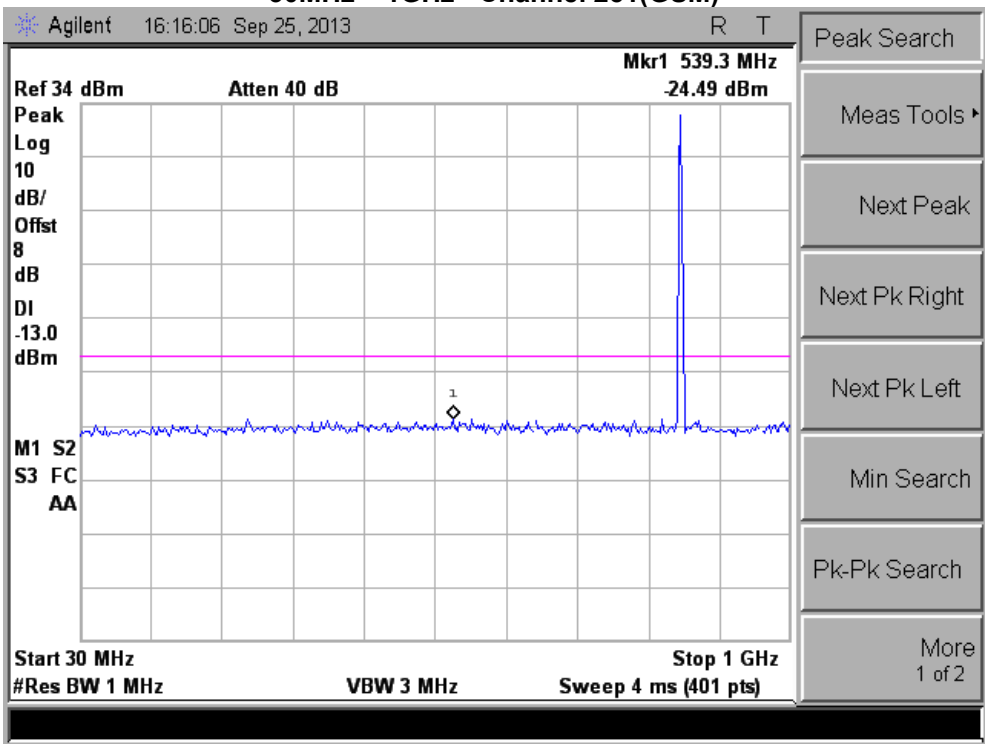
30MHz – 1GHz - Channel 189(GSM)



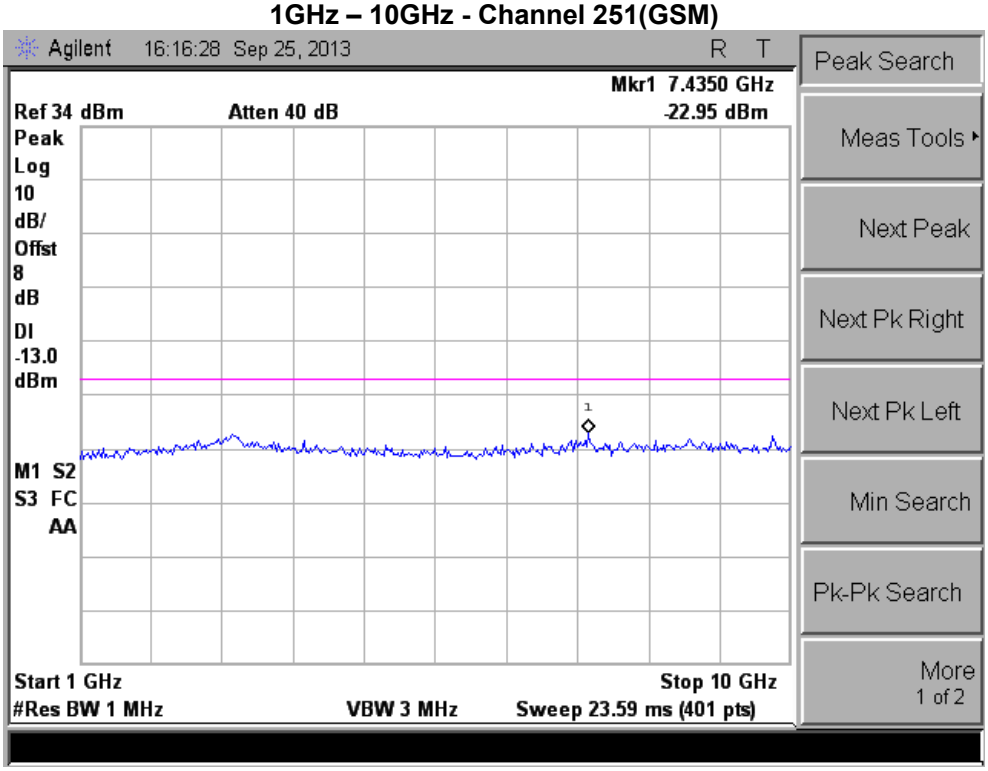
1GHz – 10GHz - Channel 189(GSM)



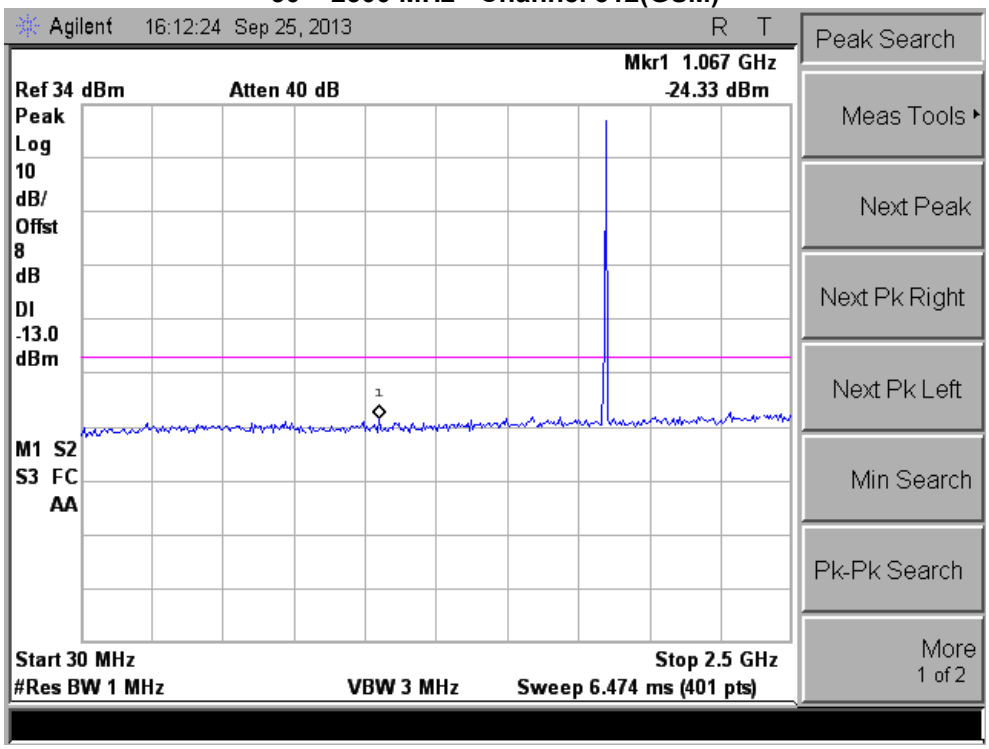
30MHz – 1GHz - Channel 251(GSM)



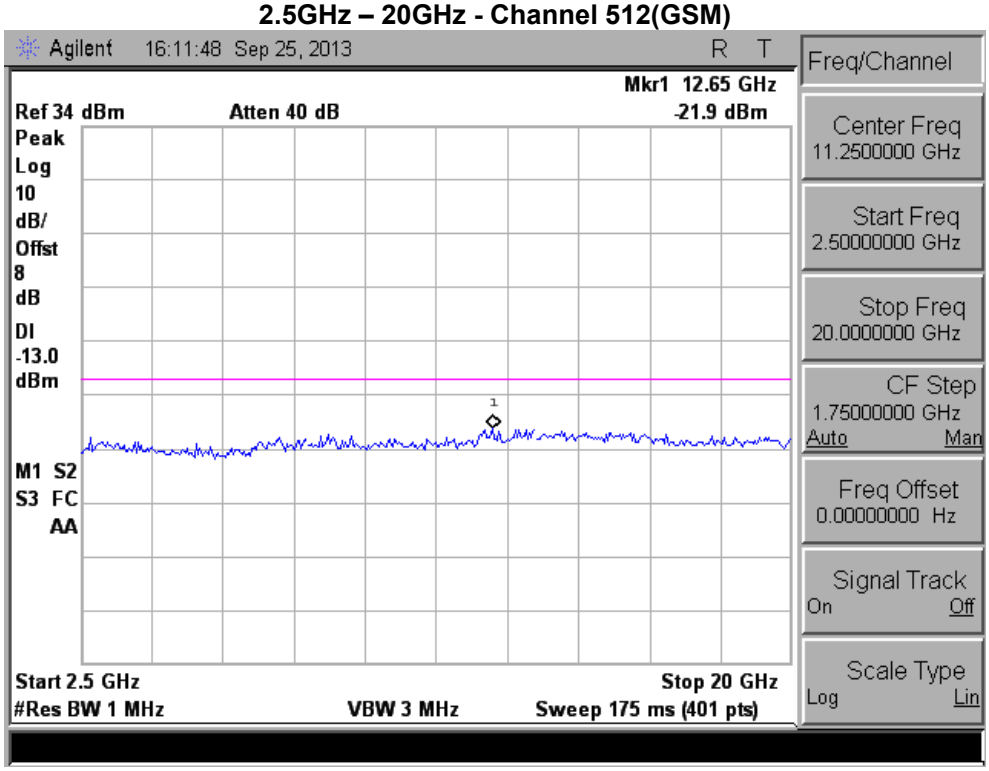
1GHz – 10GHz - Channel 251(GSM)



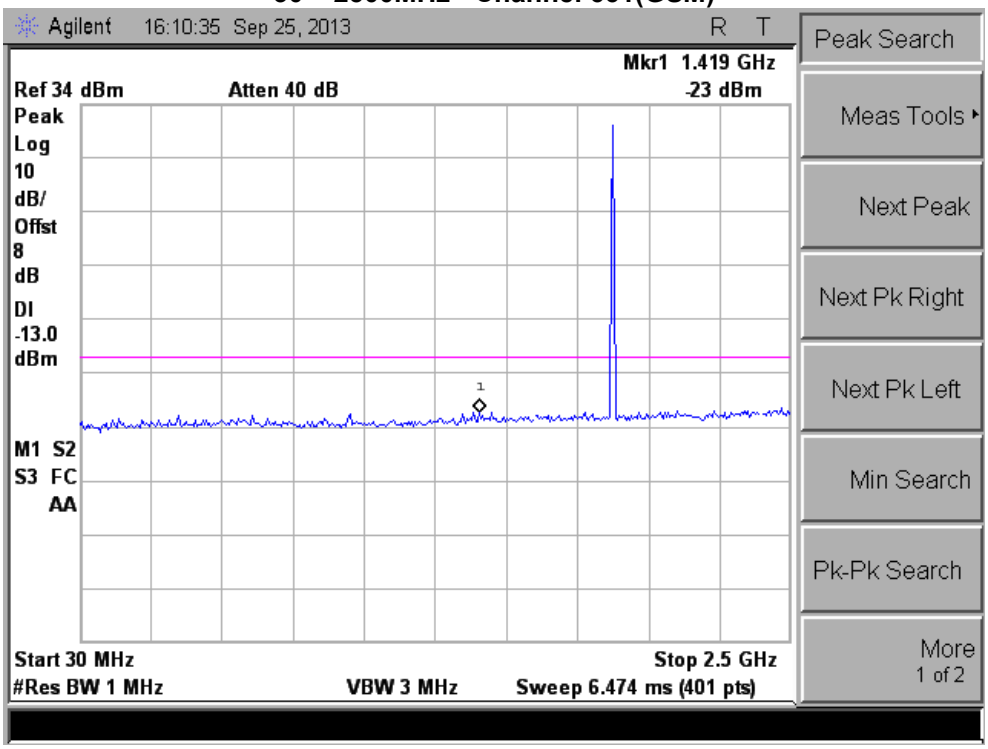
PCS Band (Part24E)
30 – 2500 MHz - Channel 512(GSM)



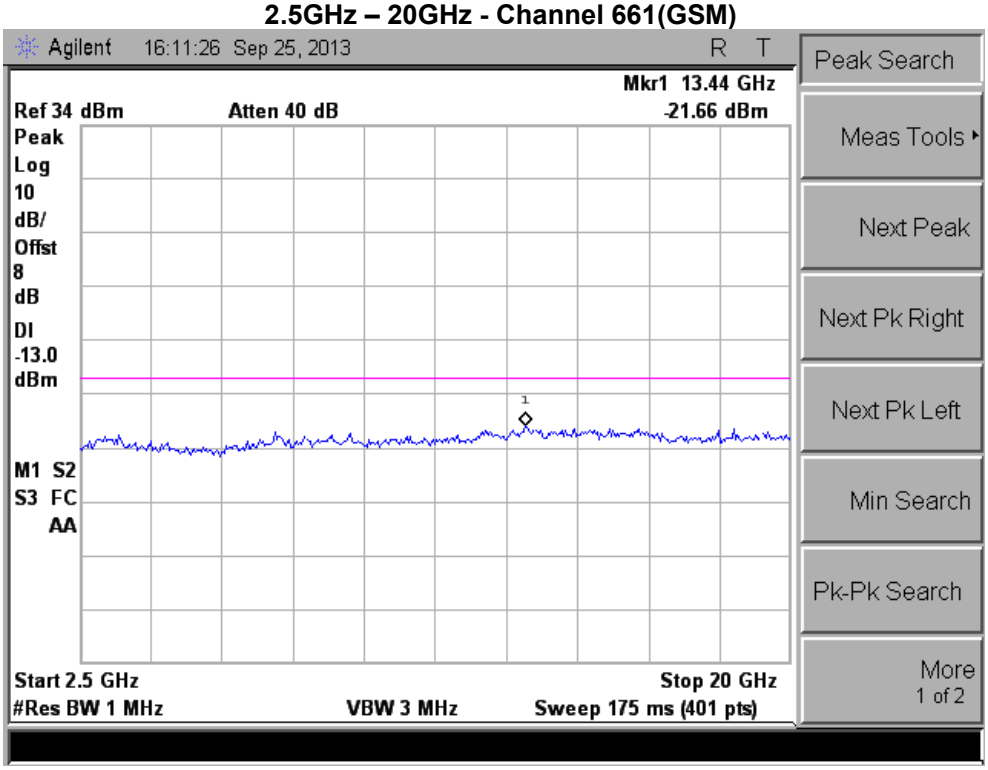
2.5GHz – 20GHz - Channel 512(GSM)



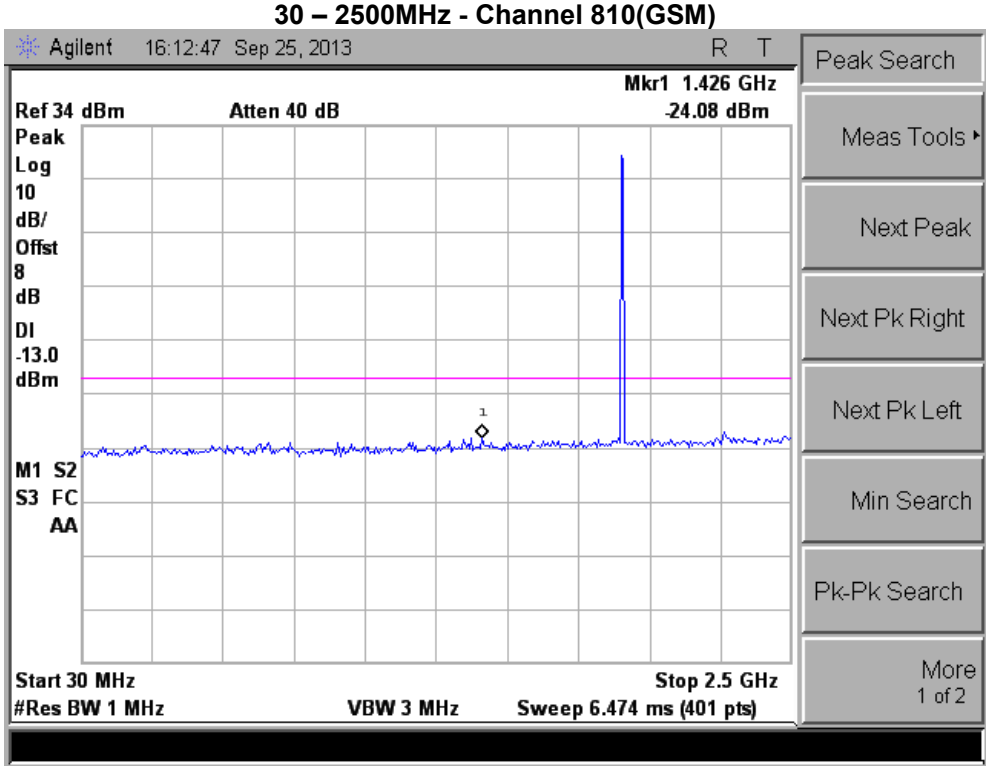
30 – 2500MHz - Channel 661(GSM)



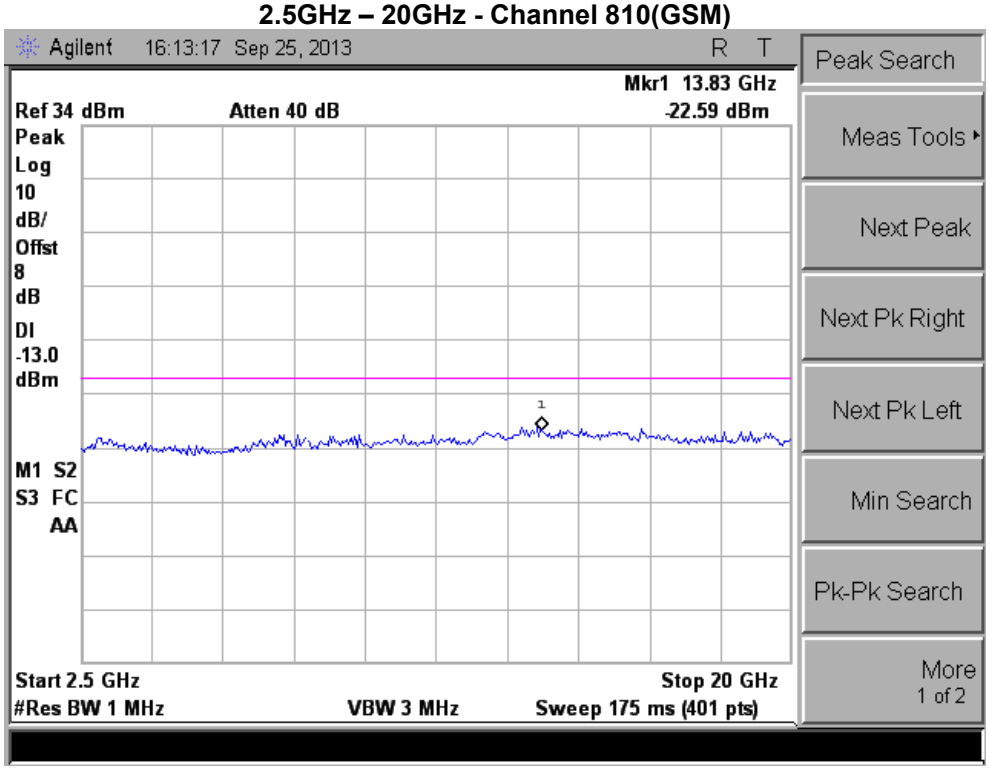
2.5GHz – 20GHz - Channel 661(GSM)



30 – 2500MHz - Channel 810(GSM)



2.5GHz – 20GHz - Channel 810(GSM)



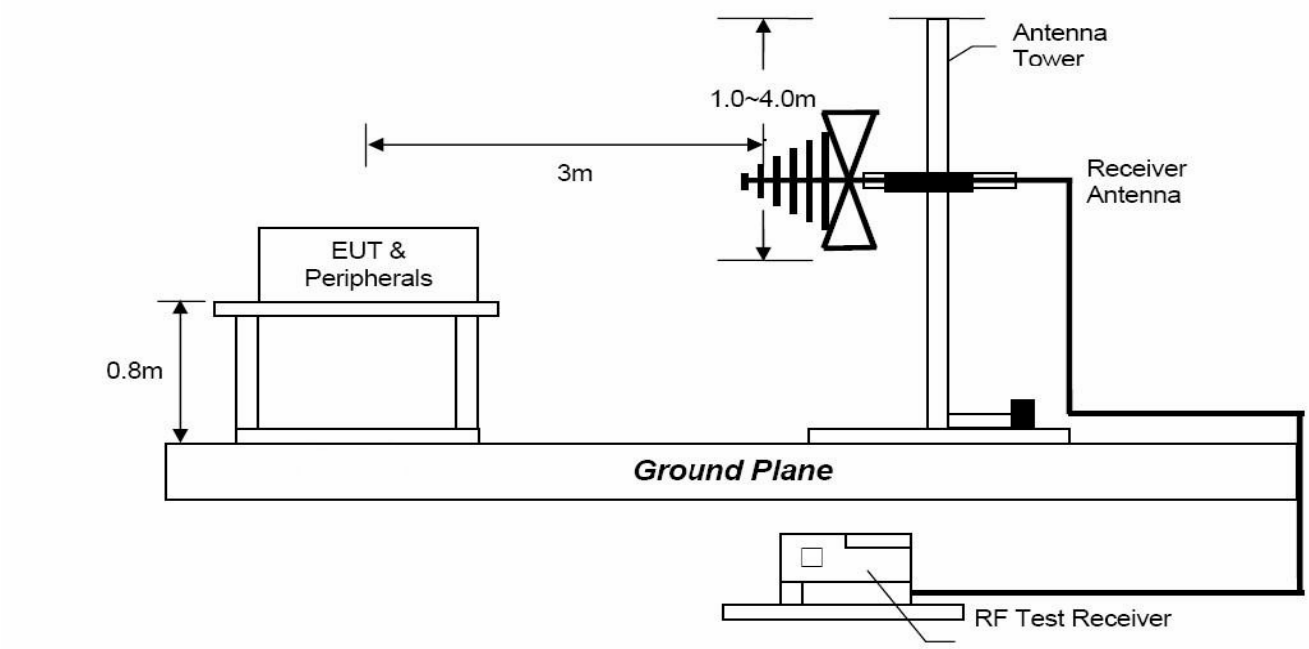
8. FIELD STRENGTH OF SPURIOUS RADIATED EMISSIONS

8.1 Applicable Standards

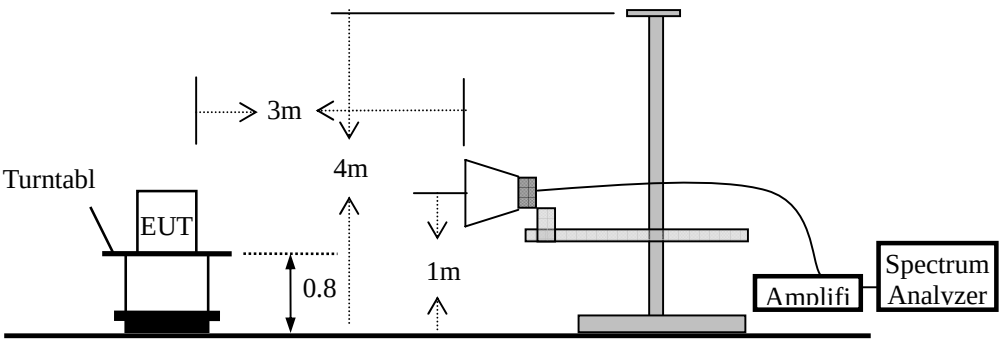
According to FCC §2.1053
FCC §22.917(a),§24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm)

8.2 Test of Block Diagram of configuration

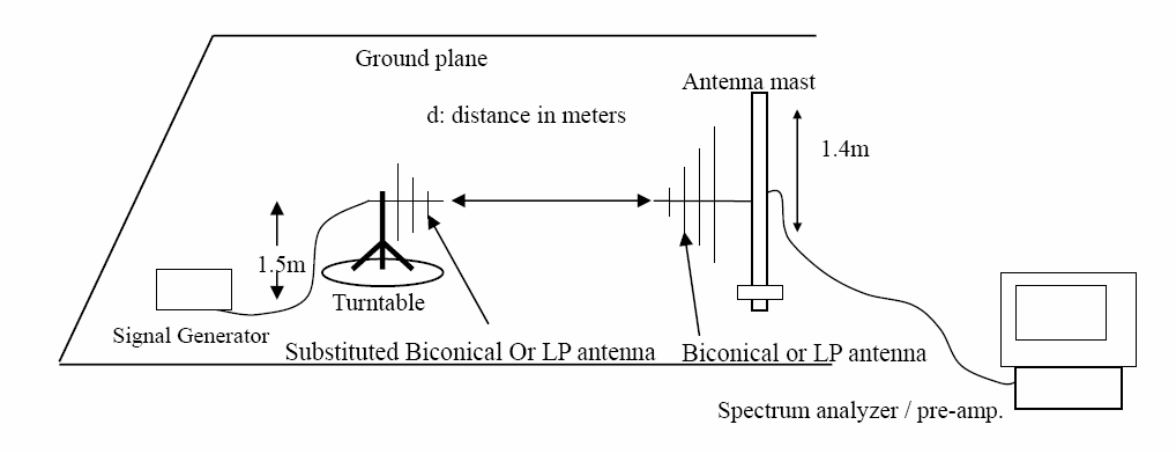
Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-Up, Frequency above 1GHz



Substituted Method Test Set-UP



8.3 Test Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. EIRP = S.G. output (dBm) + Antenna Gain(dBi) – Cable Loss (dB)

Cellular Band (Part 22H)							
Humidity :		52 %	Temperature :			23 ℃	
Mode:		GSM850	Test By:			Sance	
Test Result:		PASS					
Channel	Frequency (MHz)	Substituted level (dBm)	Polarization (H/V) Antenna	Gain Correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
128	1648.4	-36.20	H	8.26	2.1	-42.36	-13.00
	1648.4	-33.10	V	8.26	2.1	-39.26	-13.00
	2472.6	-33.15	H	9.2	2.6	-39.75	-13.00
	2472.6	-29.12	V	9.2	2.6	-35.72	-13.00
	3296.8	-49.92	H	10.2	3.4	-56.72	-13.00
	3296.8	-51.05	V	10.2	3.4	-57.85	-13.00
189	1672.4	-38.80	H	8.26	2.1	-44.96	-13.00
	1672.4	-34.36	V	8.26	2.1	-40.52	-13.00
	2509.2	-34.63	H	9.2	2.6	-41.23	-13.00
	2509.2	-31.08	V	9.2	2.6	-37.68	-13.00
	3345.6	-49.45	H	10.2	3.5	-56.15	-13.00
	3345.6	-50.77	V	10.2	3.5	-57.47	-13.00
251	1697.6	-37.64	H	8.24	2.1	-43.78	-13.00
	1697.6	-35.33	V	8.24	2.1	-41.47	-13.00
	2546.4	-34.79	H	9.3	2.6	-41.49	-13.00
	2546.4	-30.14	V	9.3	2.6	-36.84	-13.00
	3395.2	-49.63	H	10.3	3.5	-56.43	-13.00
	3395.2	-50.31	V	10.3	3.5	-57.11	-13.00

Note: Spurious emissions below 1000MHz were found more than 20dB below limit line.

PCS Band (Part 24E)							
Humidity :		52 %	Temperature :			23 ℃	
Mode:		GSM1900	Test By:			Sance	
Test Result:		PASS					
Channel	**Frequency (MHz)**	**Substituted level (dBm)**	**Polarization (H/V) Antenna**	**Gain Correction (dBi)**	**Cable Loss (dB)**	**Absolute Level (dBm)**	**Limit (dBm)**
512	3700.4	-36.98	H	10.5	3.8	-43.68	-13.00
	3700.4	-31.19	V	10.5	3.8	-37.89	-13.00
	5550.6	-31.34	H	11.1	5.2	-37.24	-13.00
	5550.6	-29.02	V	11.1	5.2	-34.92	-13.00
	7400.8	-42.05	H	10.1	6.5	-45.65	-13.00
	7400.8	-43.13	V	10.1	6.5	-46.73	-13.00
661	3760	-37.66	H	10.5	3.9	-44.26	-13.00
	3760	-32.58	V	10.5	3.9	-39.18	-13.00
	5640	-31.11	H	11.1	5.3	-36.91	-13.00
	5640	-29.30	V	11.1	5.3	-35.10	-13.00
	7520	-43.29	H	10.1	6.6	-46.79	-13.00
	7520	-42.92	V	10.1	6.6	-46.42	-13.00
810	3819.6	-36.38	H	10.6	4.0	-42.98	-13.00
	3819.6	-31.14	V	10.6	4.0	-37.74	-13.00
	5729.4	-30.52	H	11.2	5.3	-36.42	-13.00
	5729.4	-28.35	V	11.2	5.3	-34.25	-13.00
	7639.2	-42.03	H	10.2	6.7	-45.53	-13.00
	7639.2	-42.97	V	10.2	6.7	-46.47	-13.00

Note: Spurious emissions below 1000MHz were found more than 20dB below limit line.

9. RF Exposure

9.1 Applicable Standards

§1.1307 and §2.1093.

9.2 Test Result

Compliance

The EUT is a portable device, thus requires SAR evaluation; please refer to SAR Report that issue by SIEMIC Testing and Certification Services.

10. Test Equipment List

Description	Manfucaturer	Model Number	Serial Number	Calibration Date	Calibration Due Date
Receiver	Rohde & Schwarz	ESCI7	100837	Nov.05, 2012	Nov.04 2013
DC Power Source	HUA YI	HY5003-2	N/A	Nov. 05, 2012	Nov. 04, 2013
Temperature & Humidity Chamber	TOS STAR	TOS-831B	20071117	May 23, 2013	May 22, 2014
Spectrum Analyzer	Agilent	E7405A	MY45118807	May. 14, 2012	May. 13, 2014
Spectrum Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 26, 2012	Nov. 25, 2013
Universal Radio Communication Tester	Rohde & Schwarz	CMU200	123259	Nov. 18, 2012	Nov. 17, 2013
Pre-Amplifier	HP	8447D	1145A00203	Nov. 05, 2012	Nov. 04, 2013
Broadband Antenna	Schwarzbeck	VULB9162	9162-010	Nov. 28, 2012	Nov. 27, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-372	Oct. 24, 2012	Oct. 23, 2013
Horn Antenna	COM-Power	AH-118	071078	Nov. 17, 2012	Nov. 16, 2013
Pre-Amplifier	Agilent	8449B	3008A02964	Dec. 19, 2012	Dec. 18, 2013
Cable	HUBER+SUHNER	CBL2-NN-1M	22320001	Nov. 05, 2012	Nov. 04, 2013