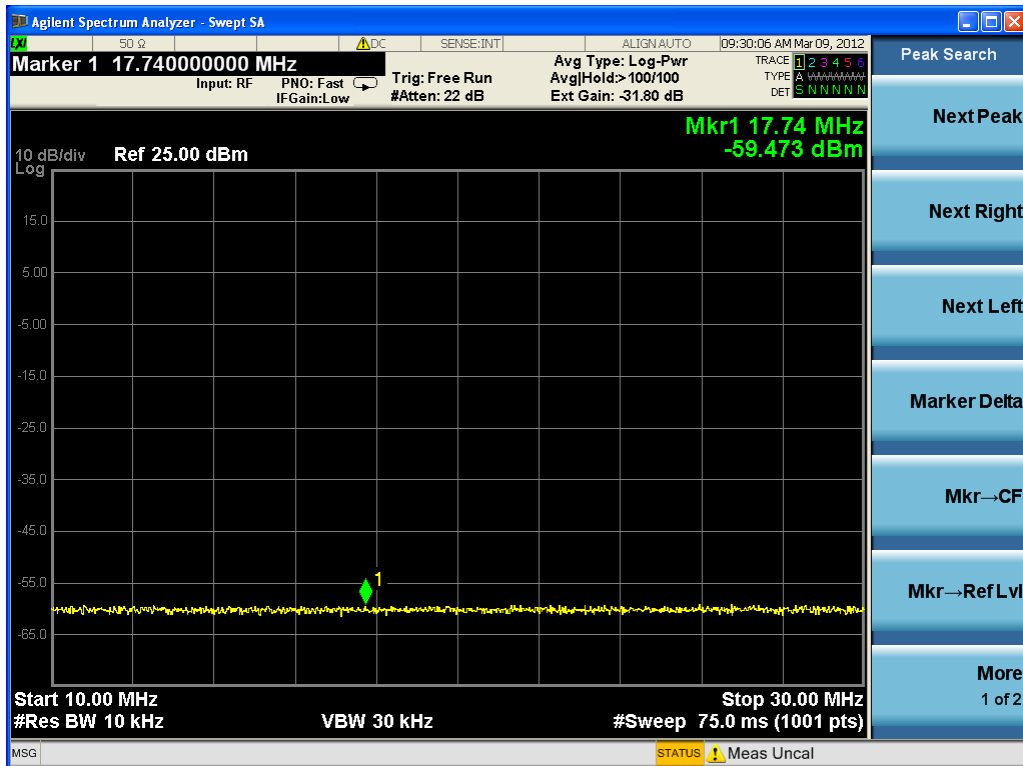
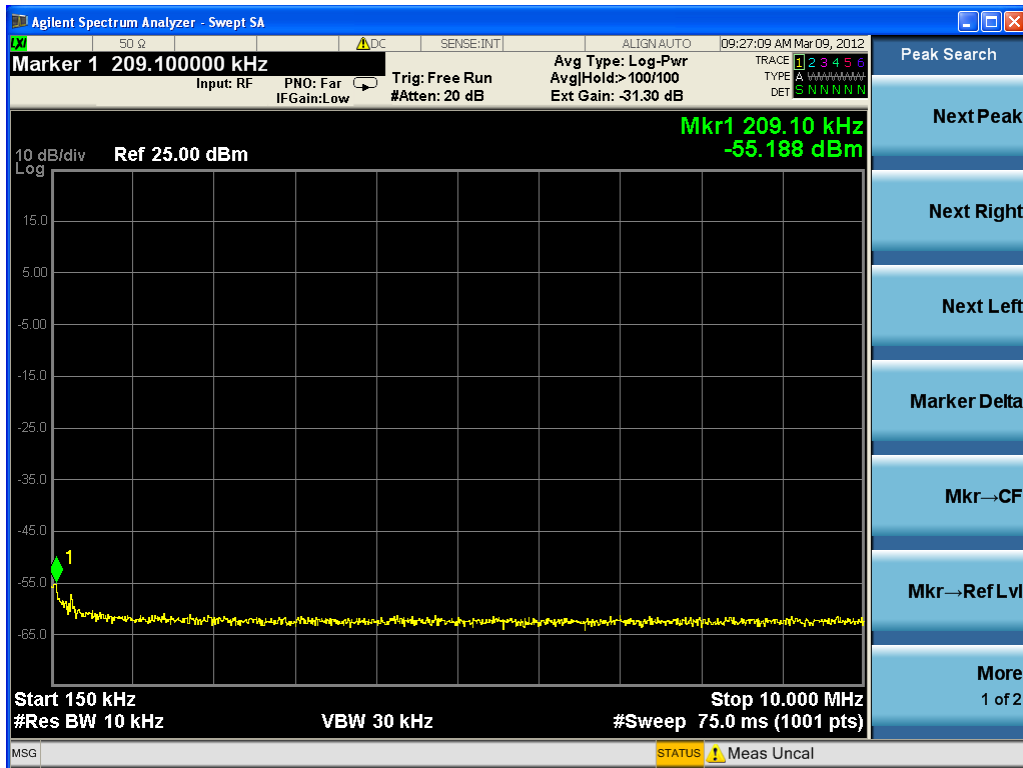
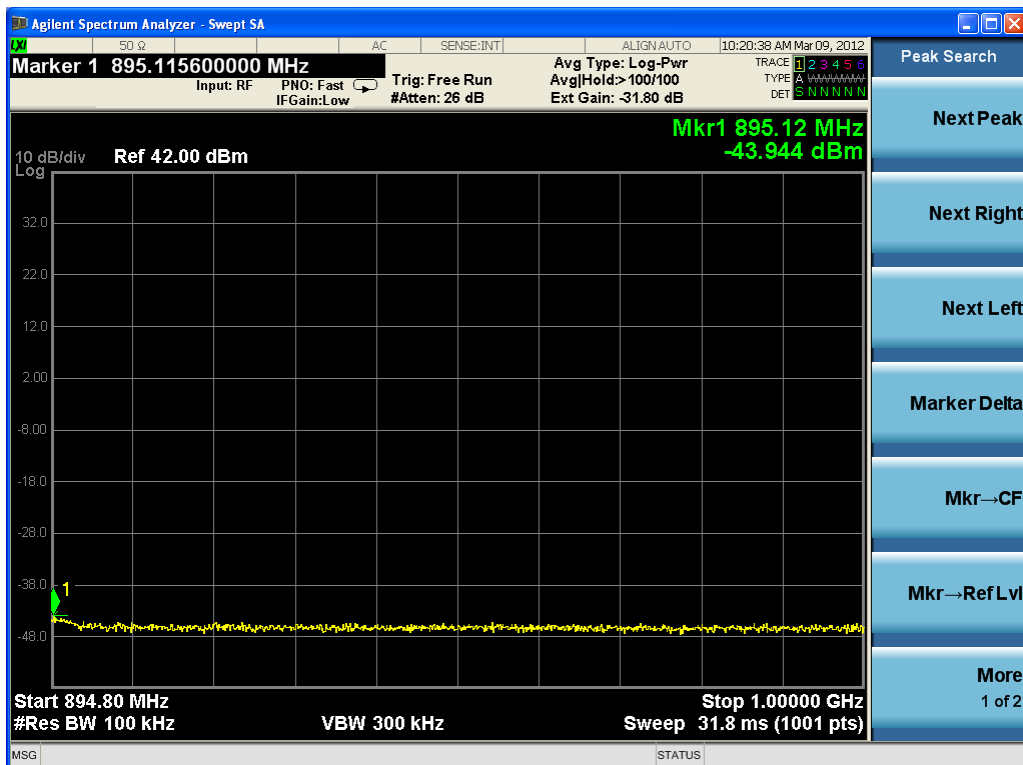
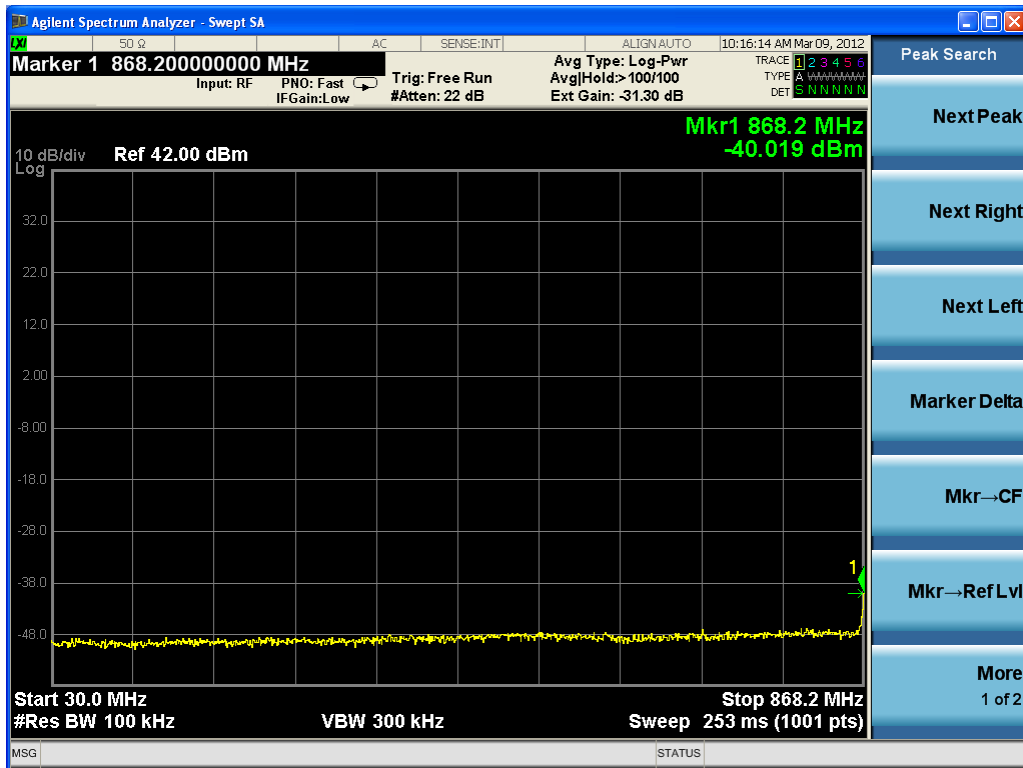
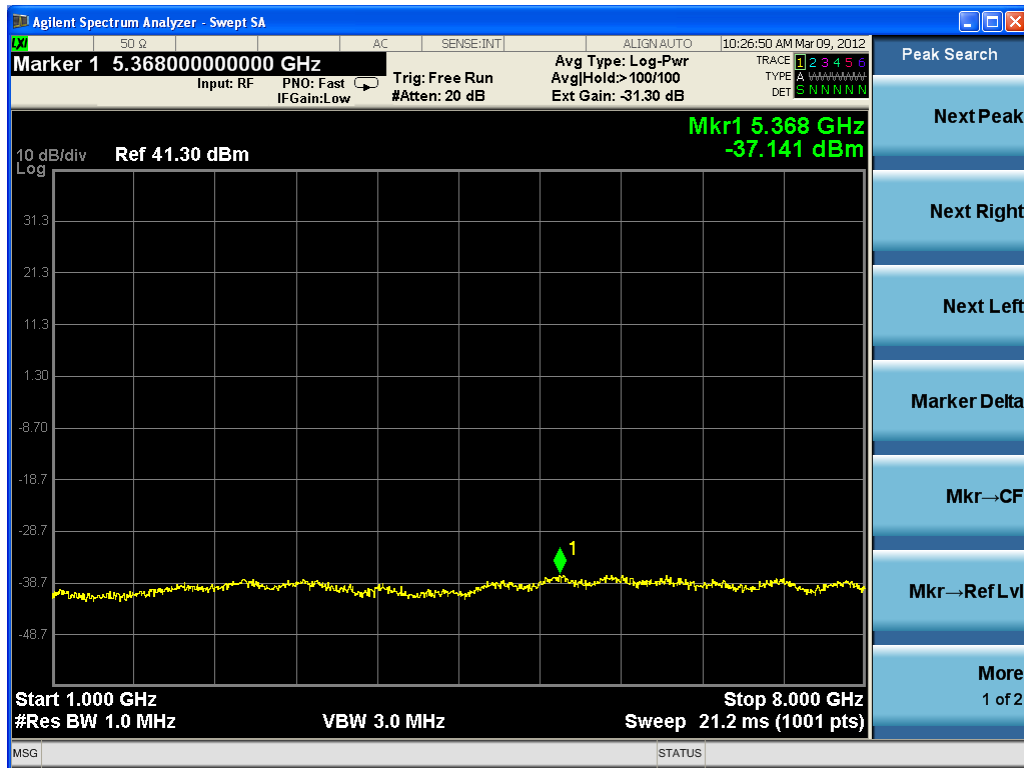


Five carriers



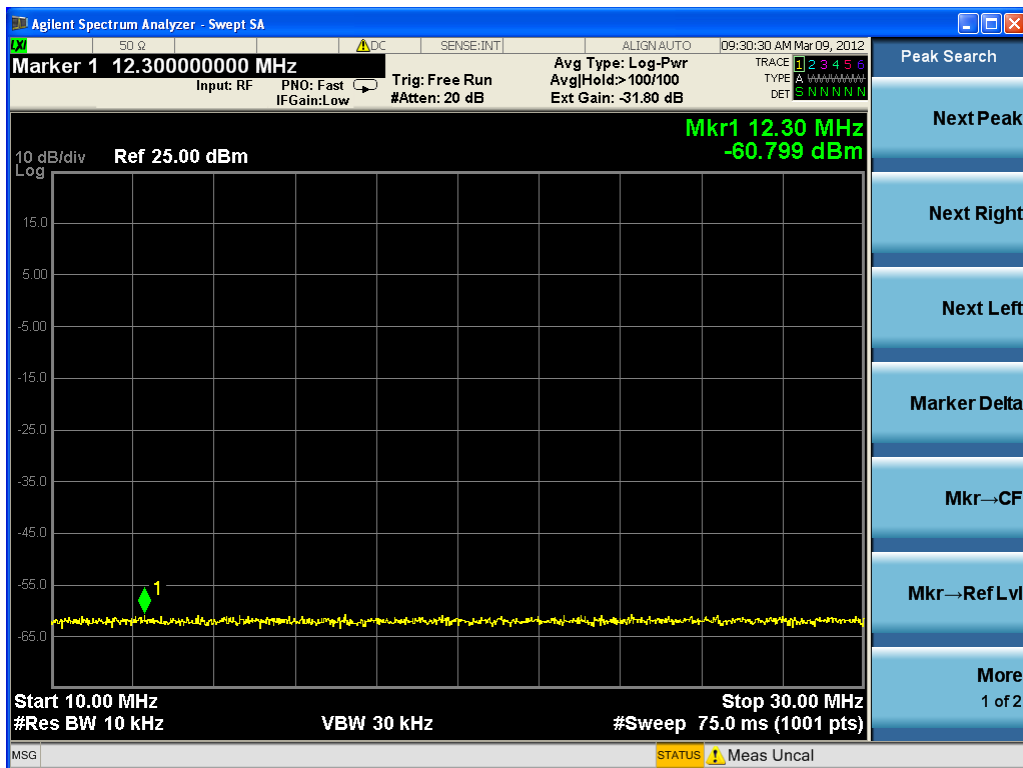
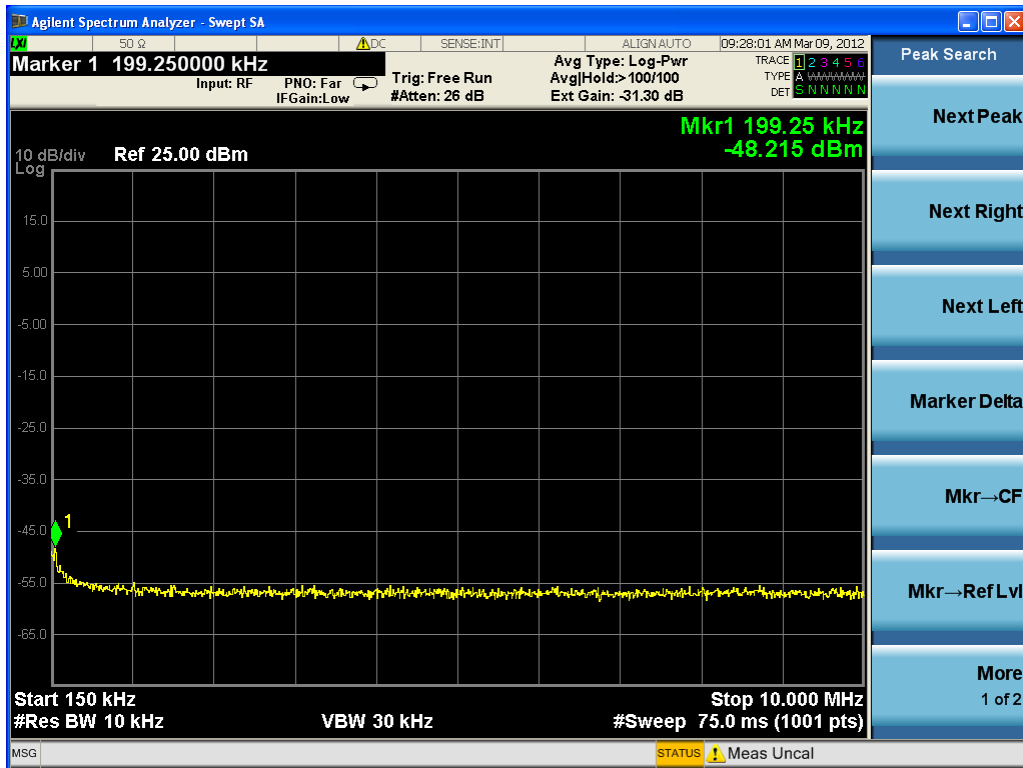


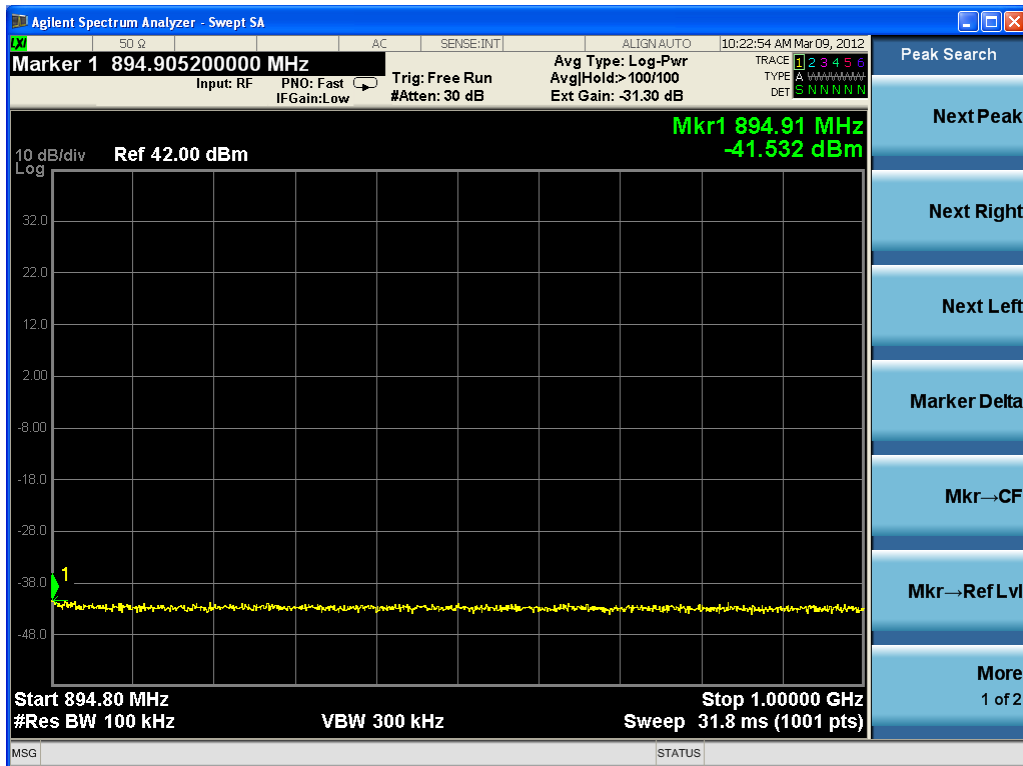
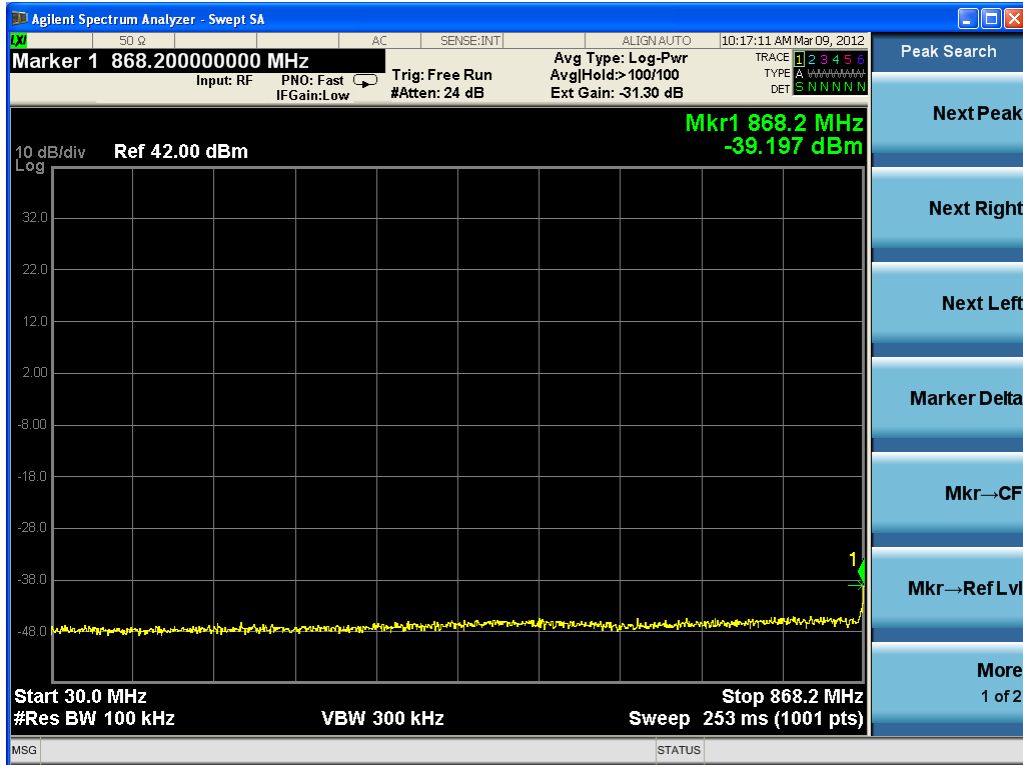


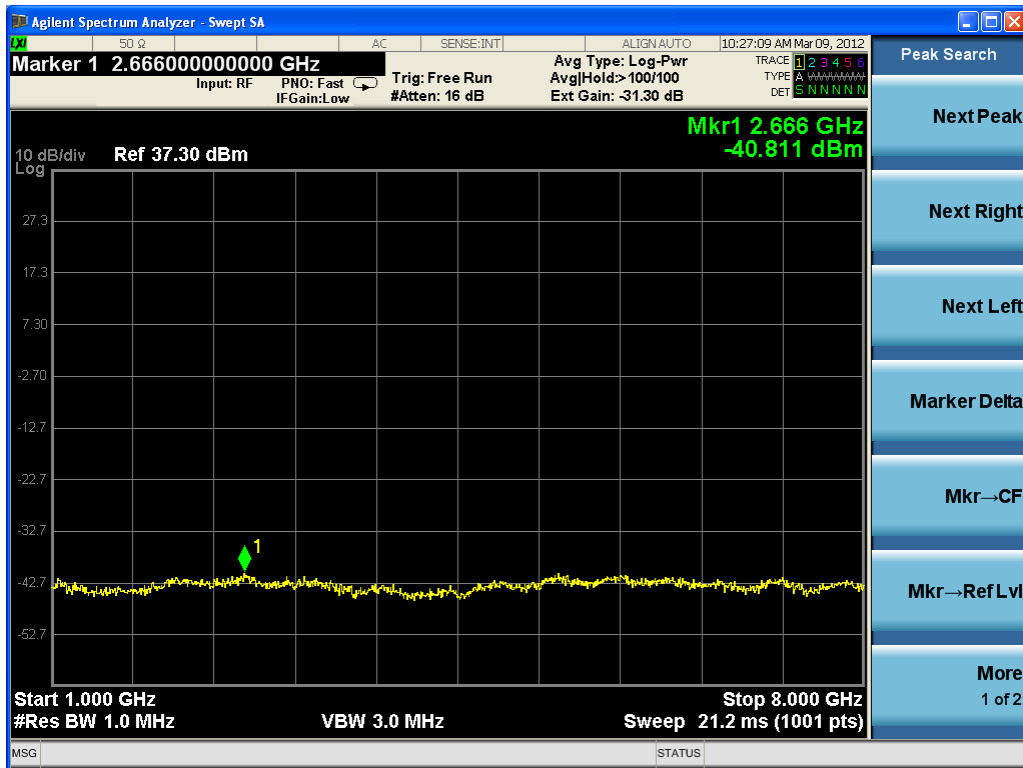


Four carriers





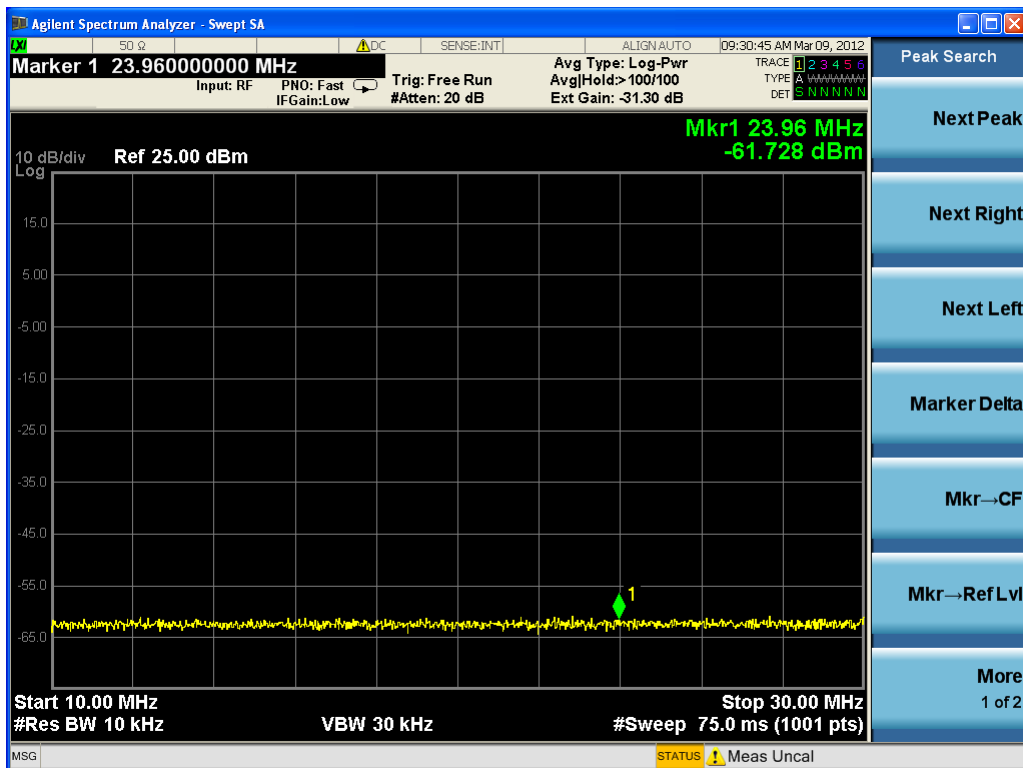
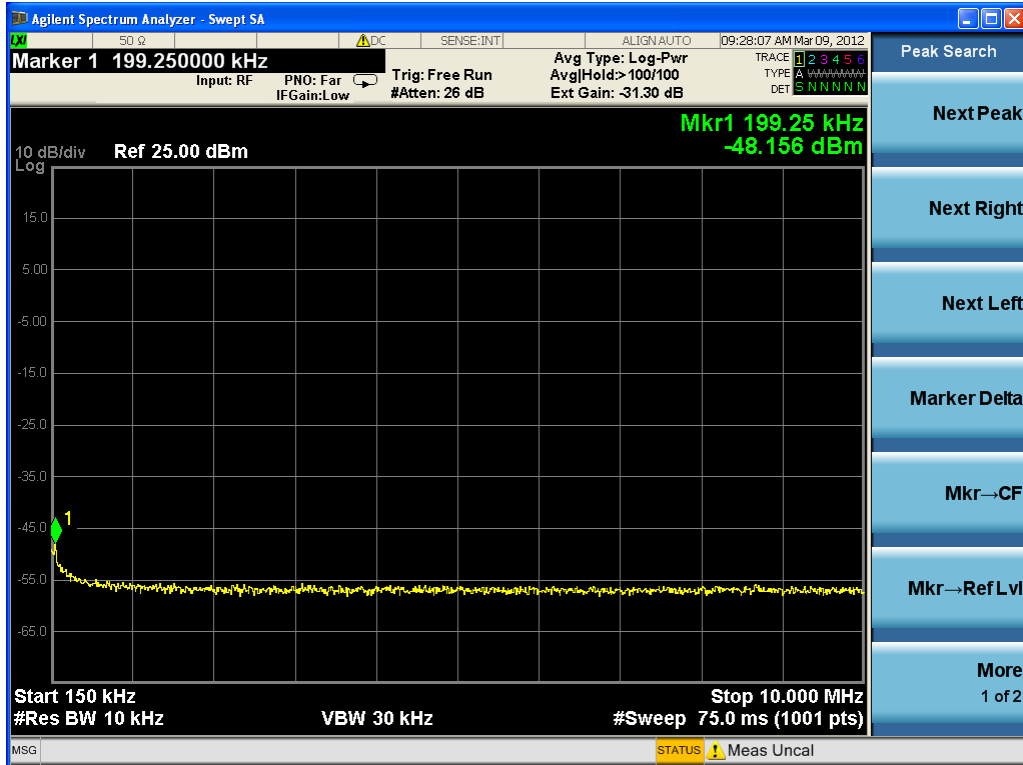


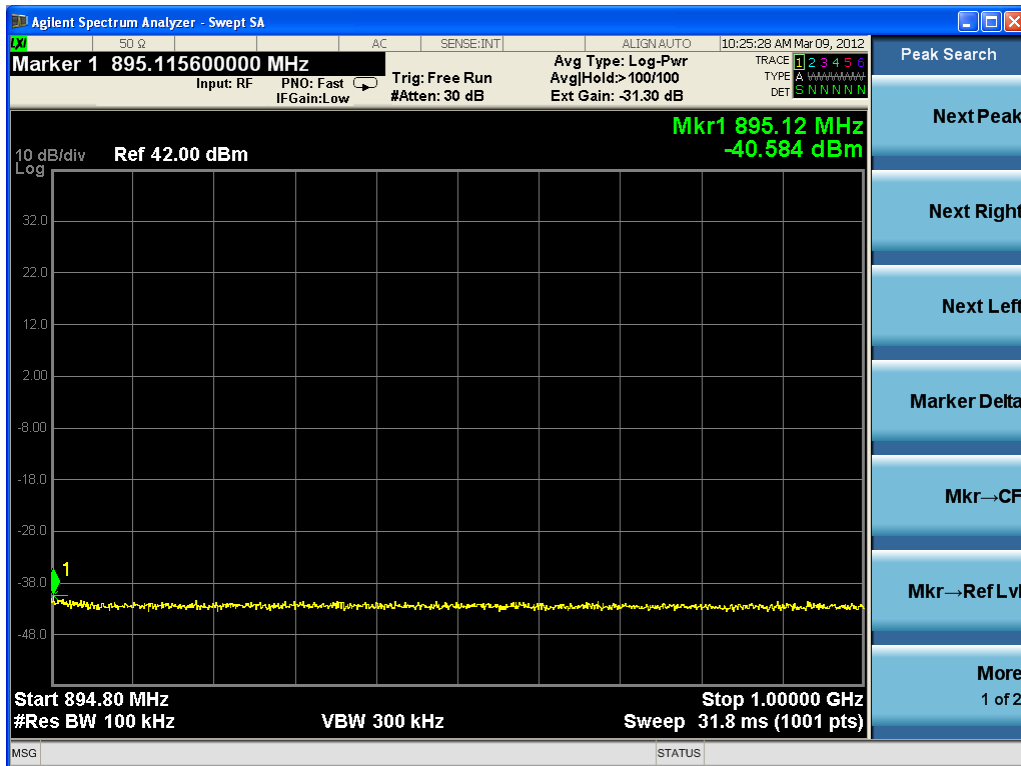
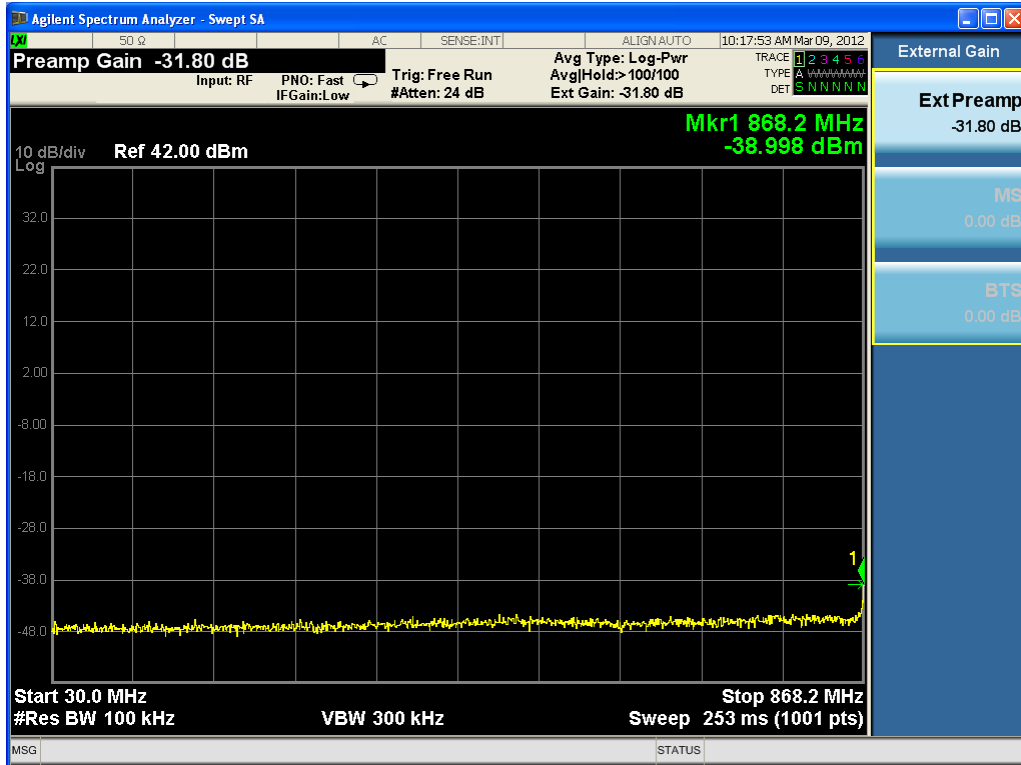


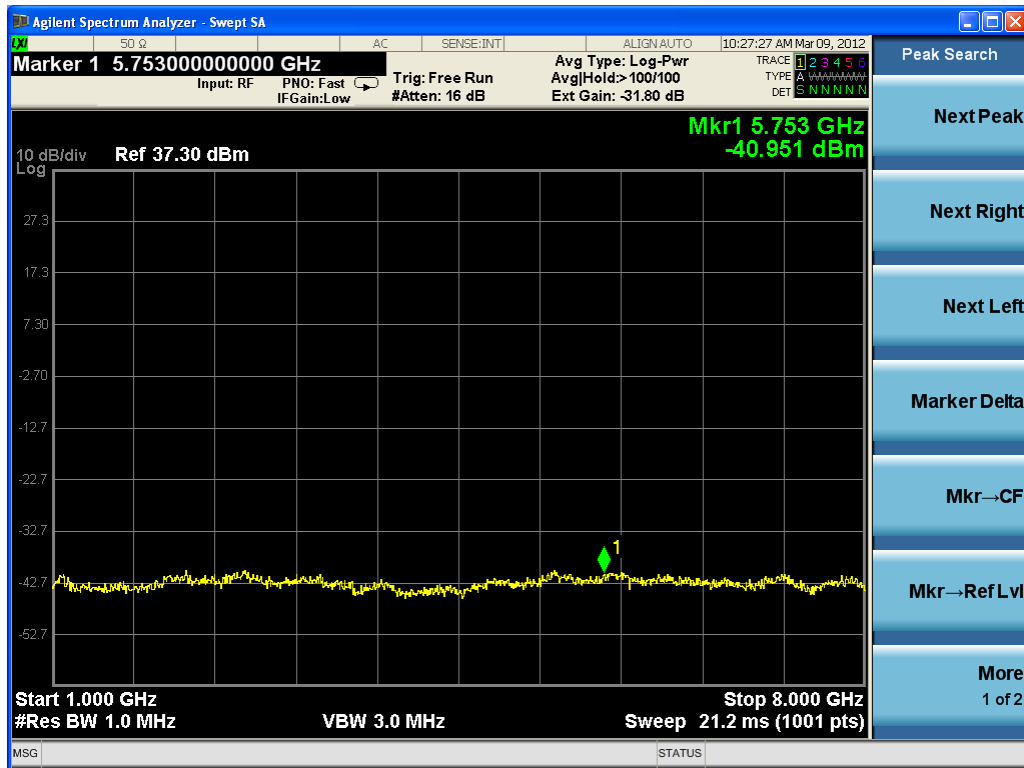
Three carriers





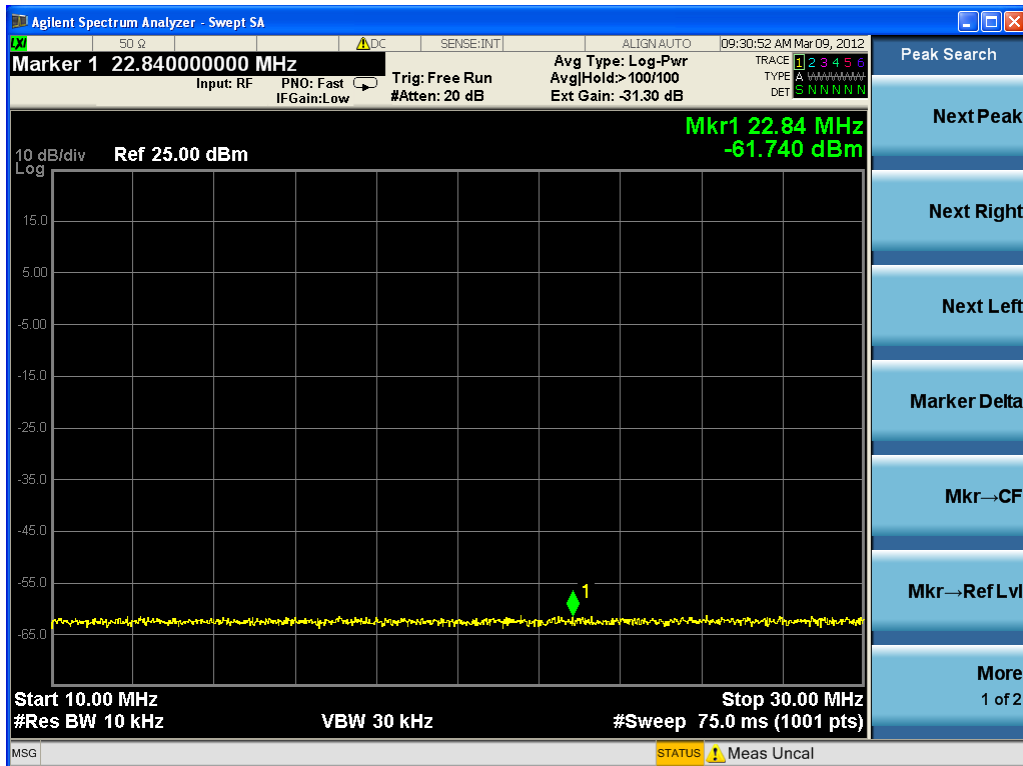
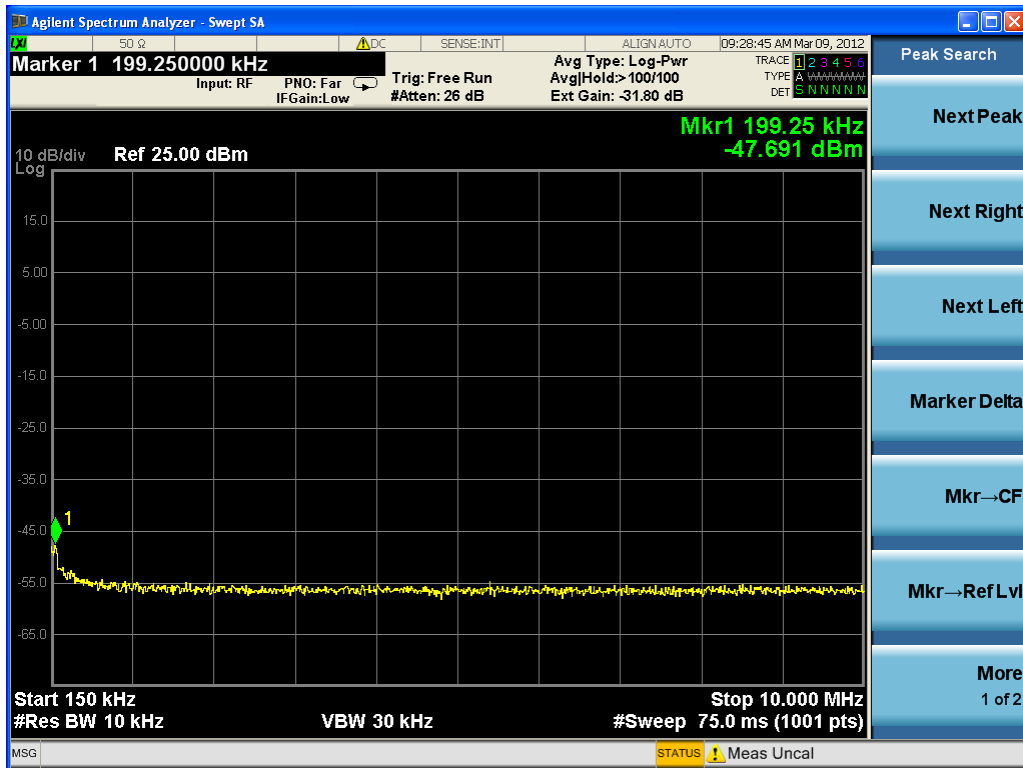


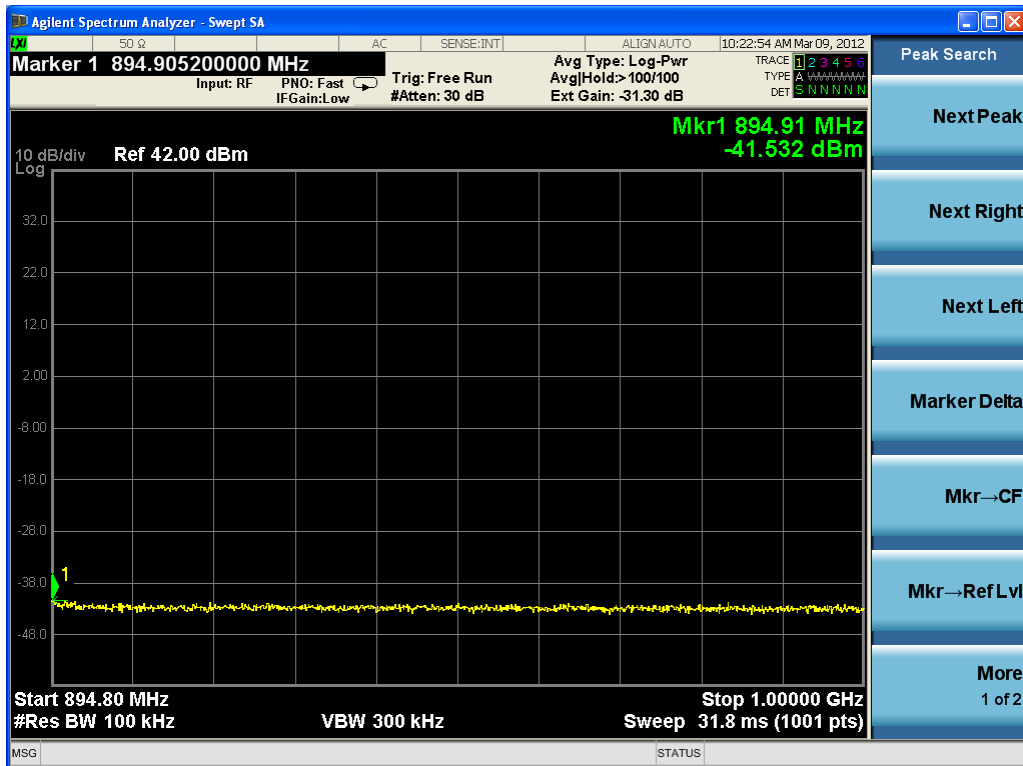
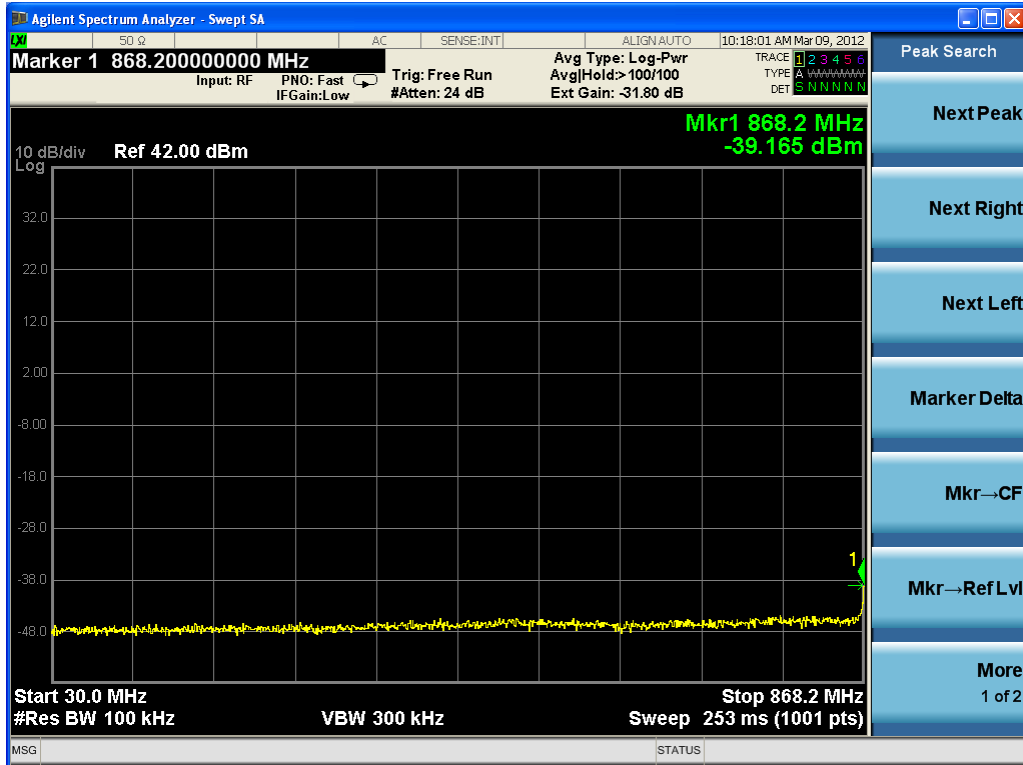


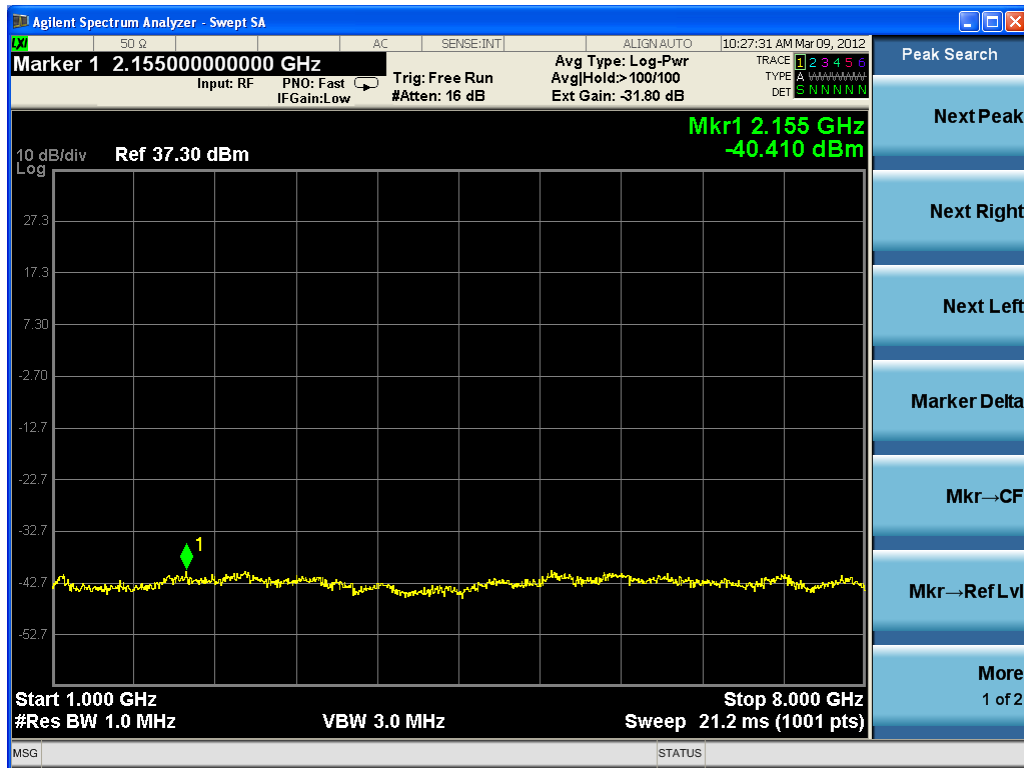


Two carriers



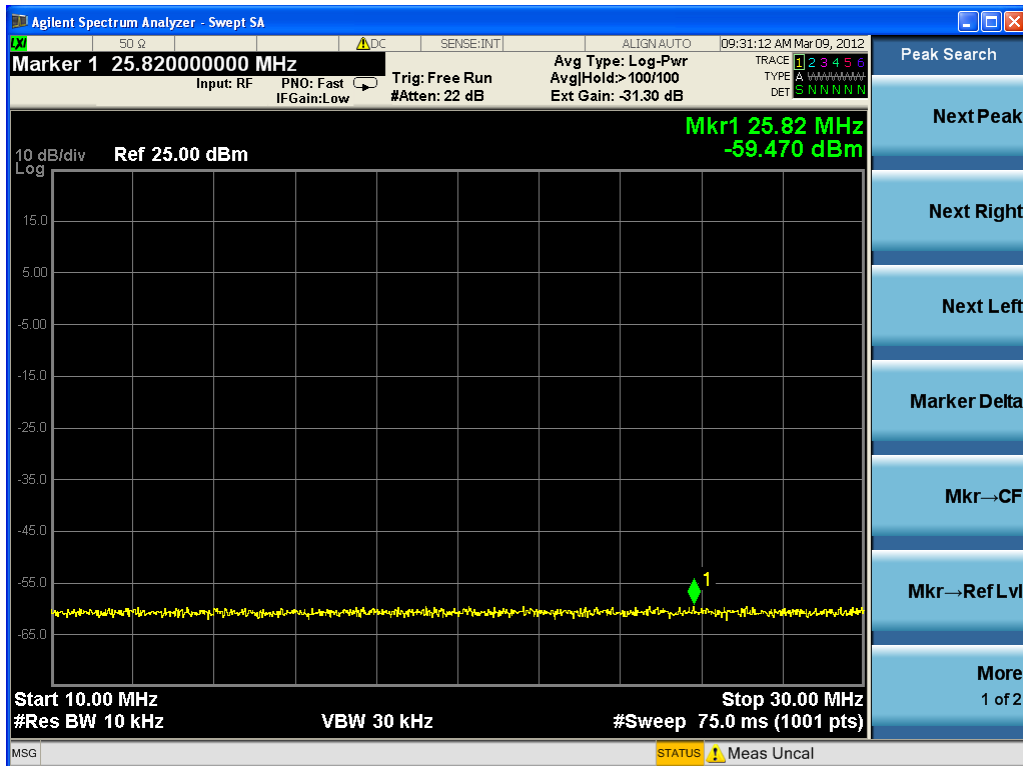
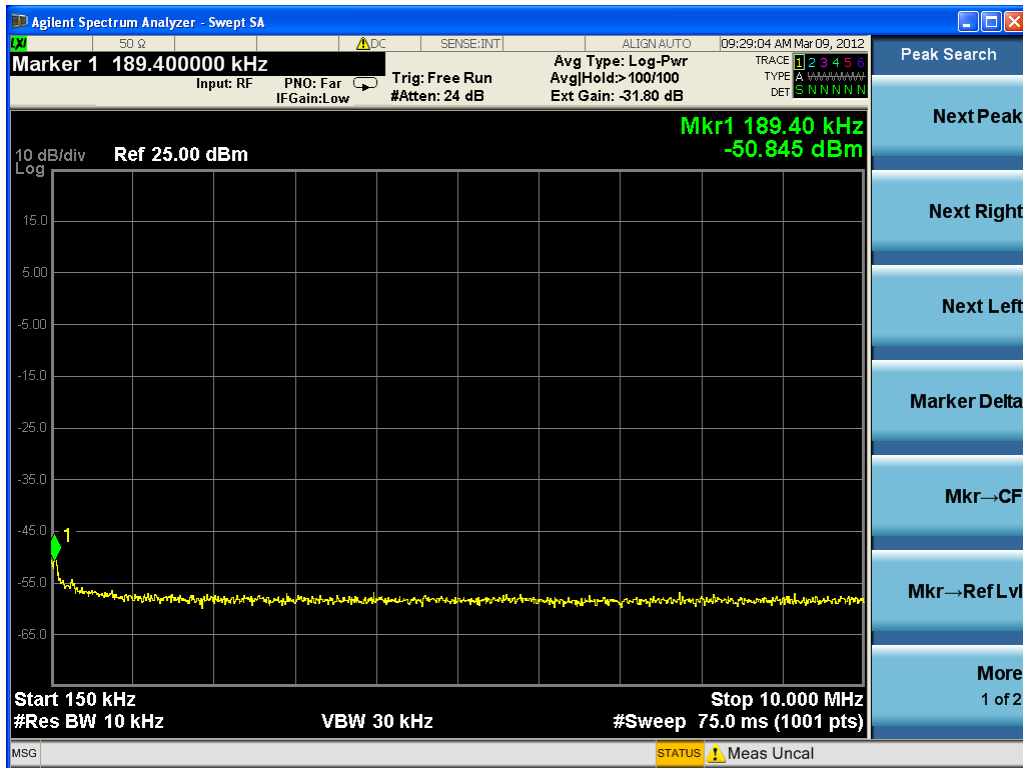


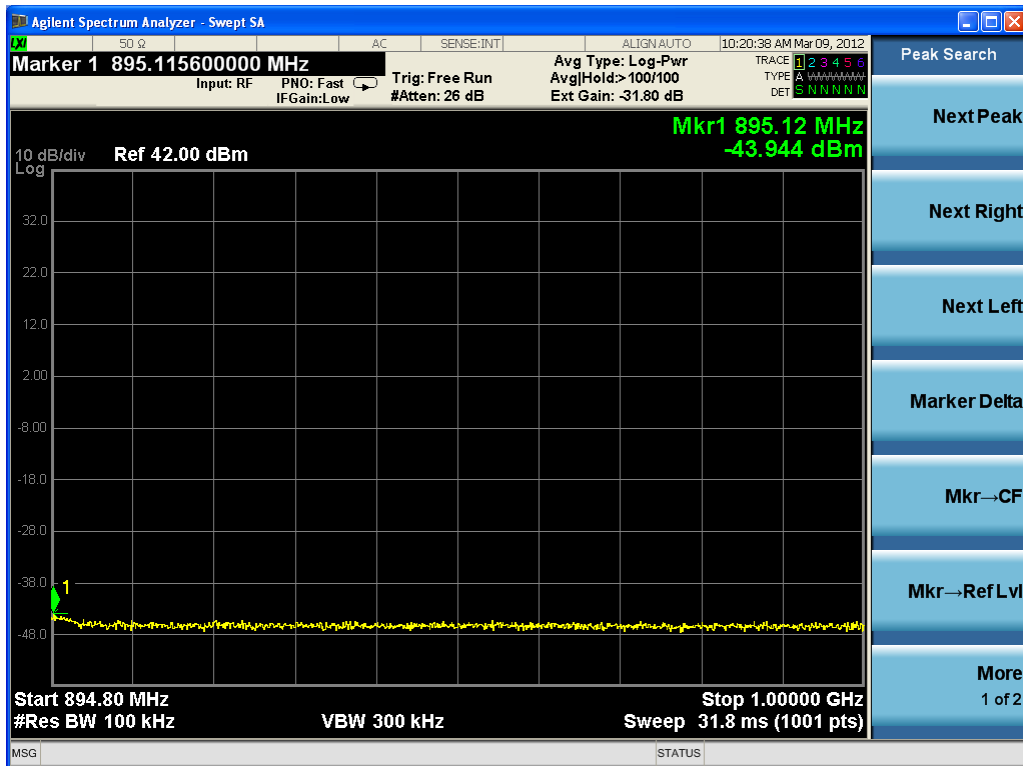
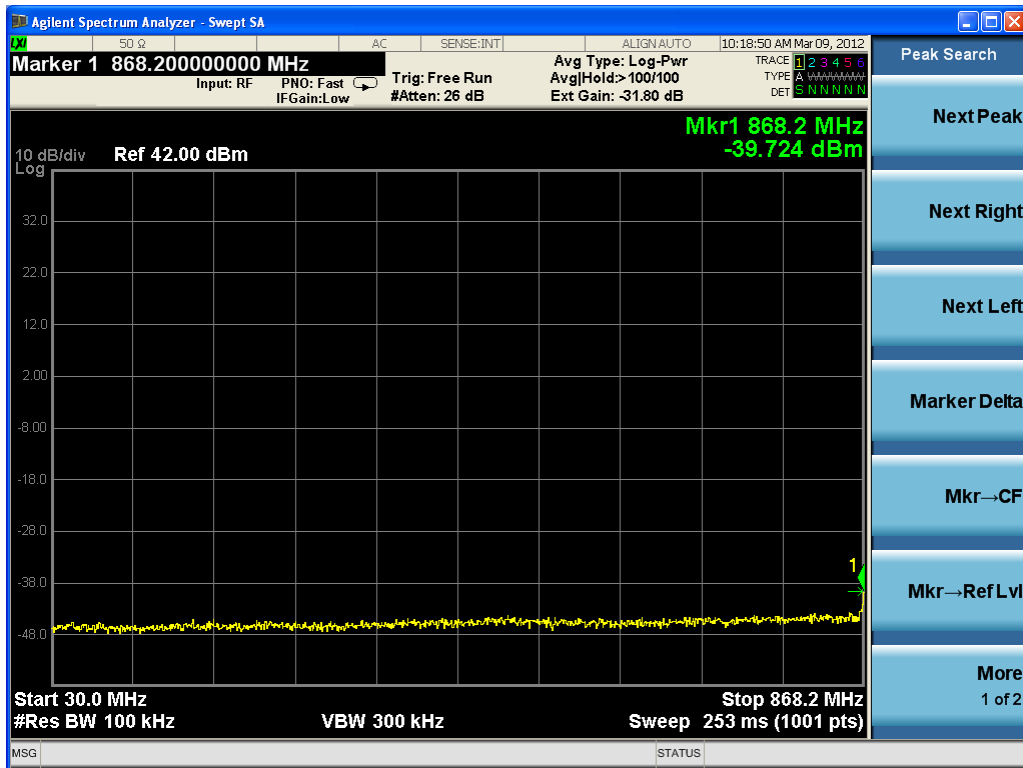




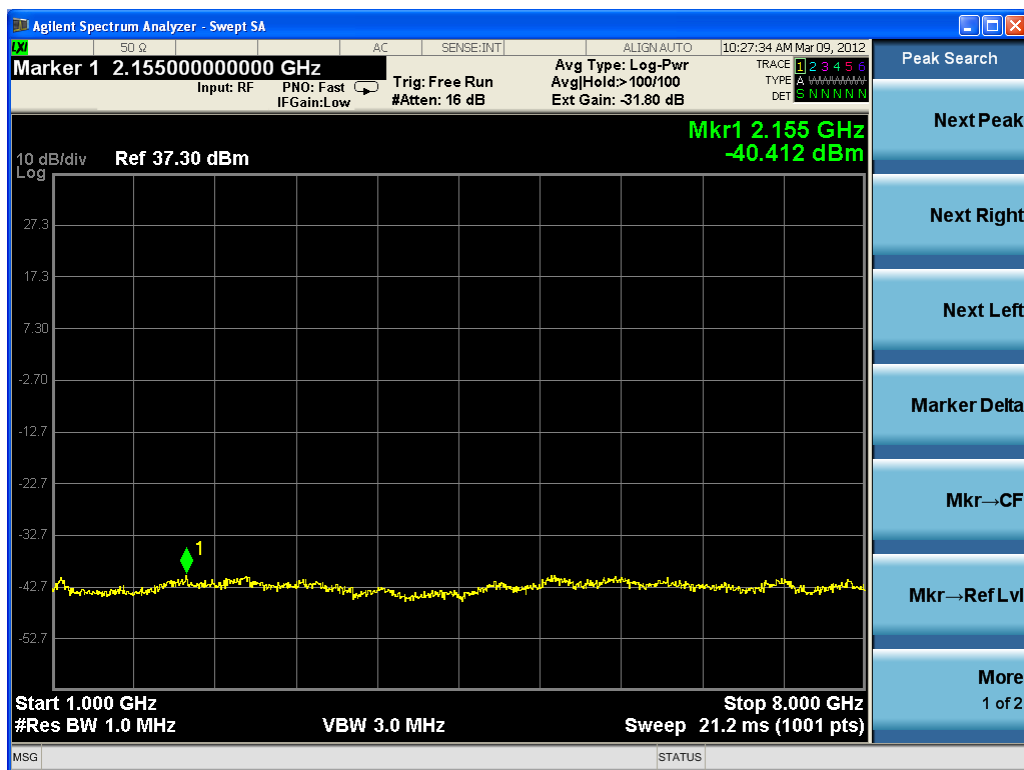
One carrier











## 5.6 OCCUPIED BANDWIDTH

**Applicable Standard:** FCC §2.1049 §22.917

### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

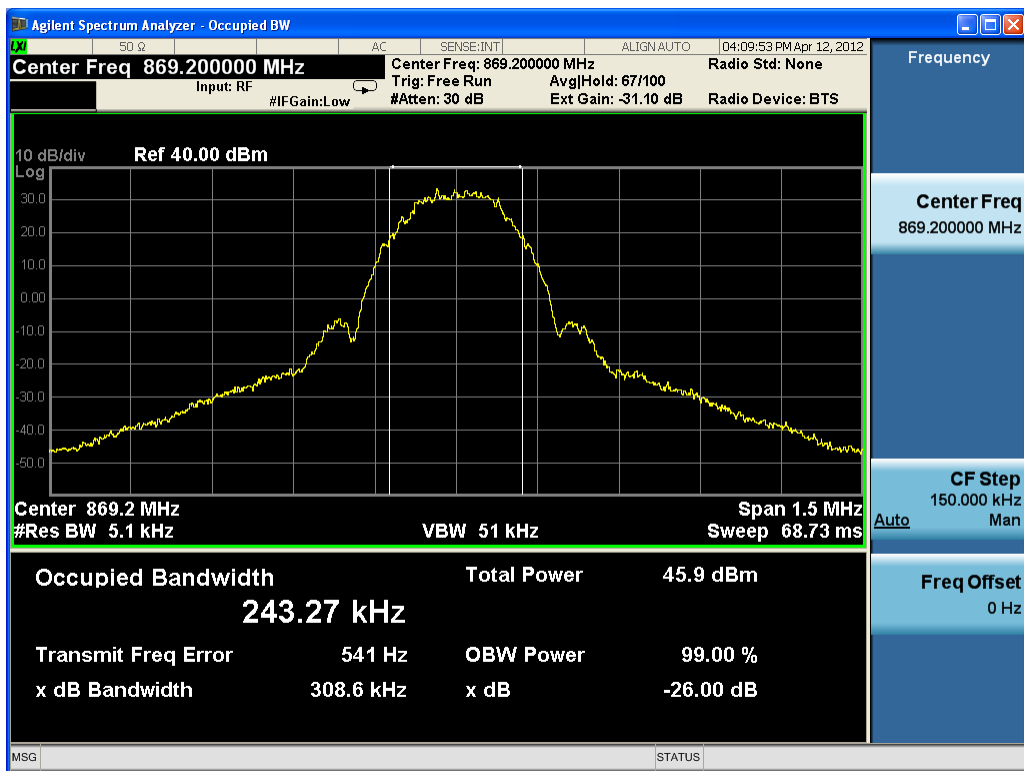
The RF out of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. 99%Power bandwidth was recorded.

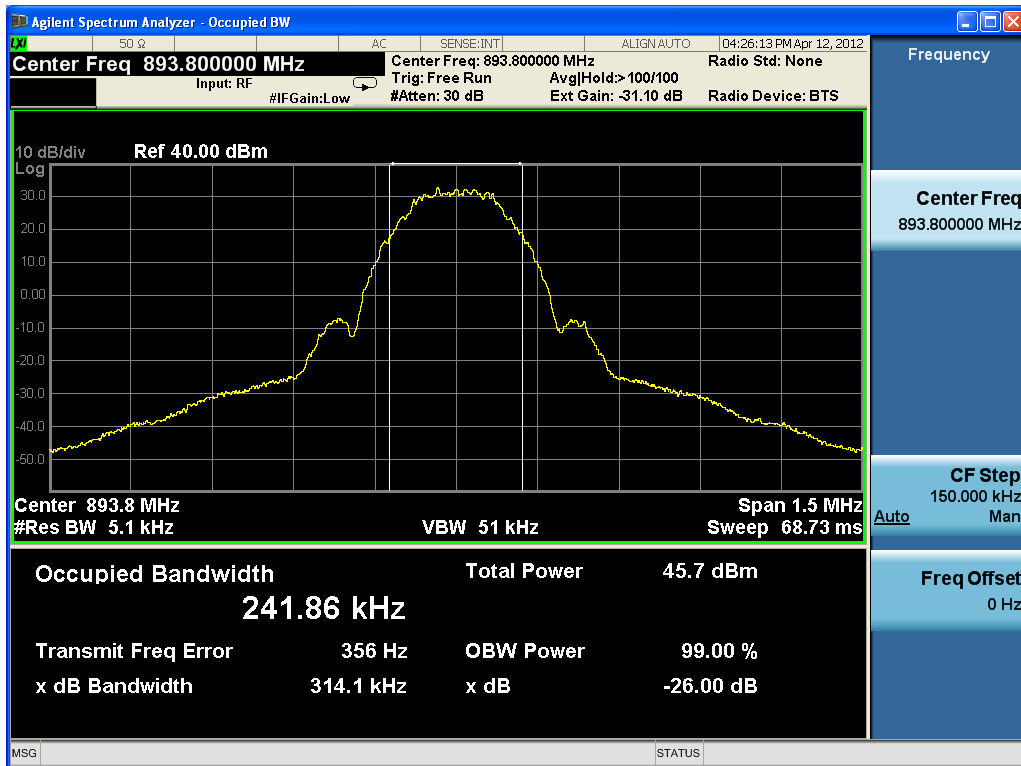
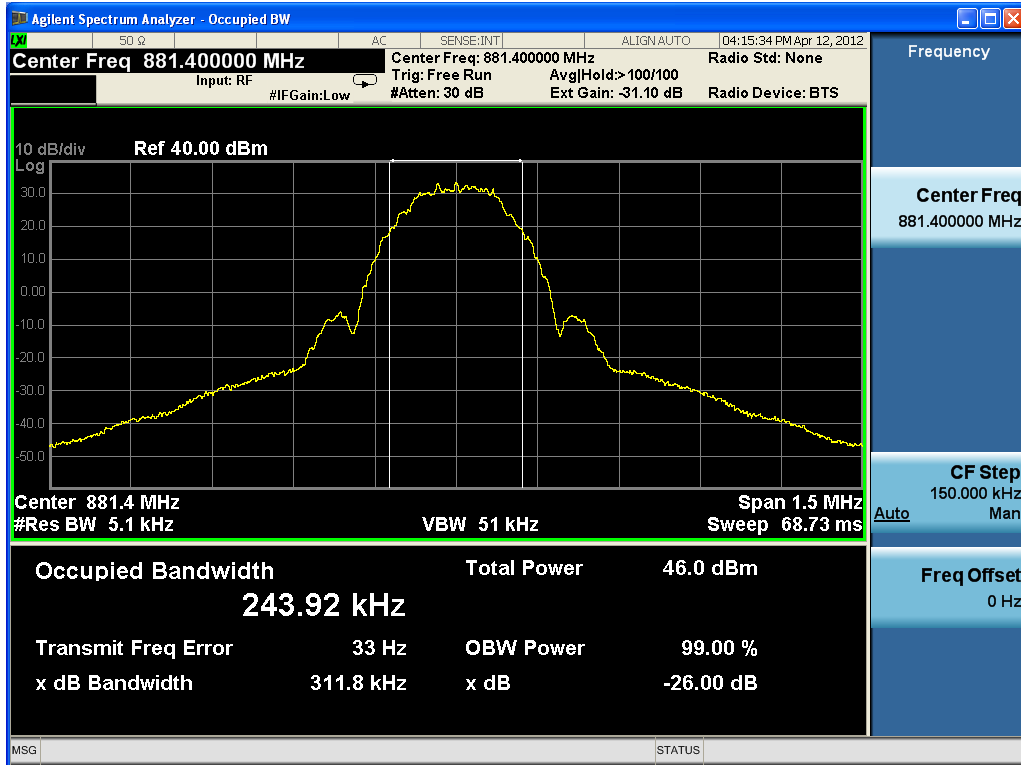
### Environmental Conditions

Temperature:	20 ° C
Relative Humidity:	53%
ATM Pressure:	1009mbar

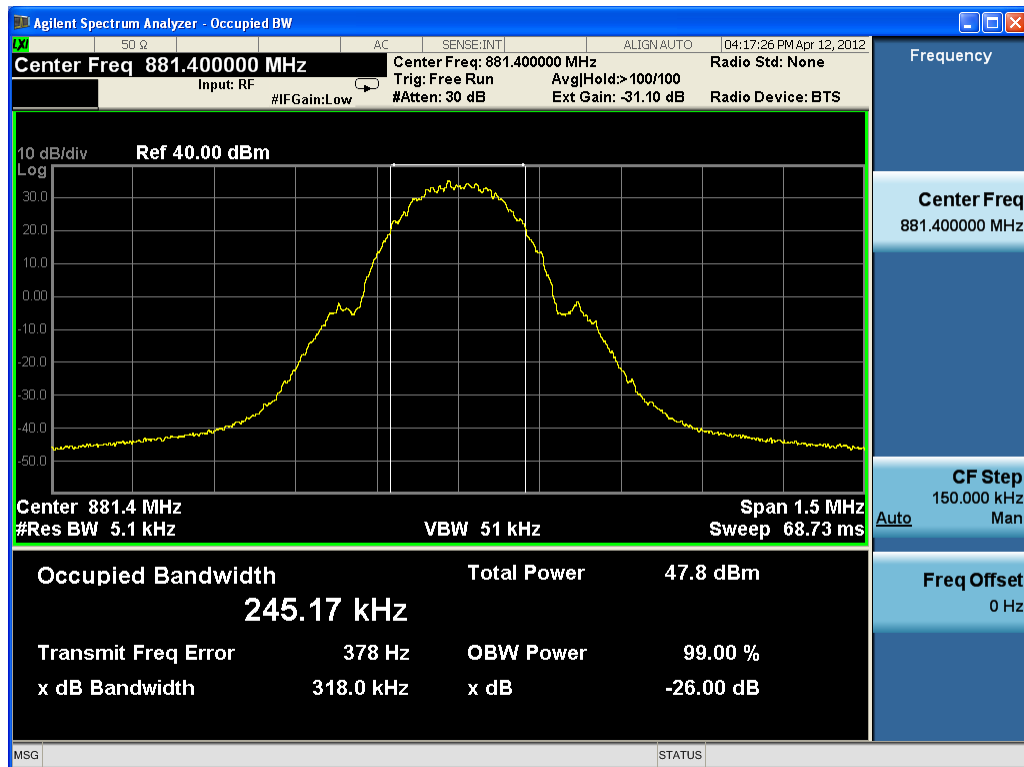
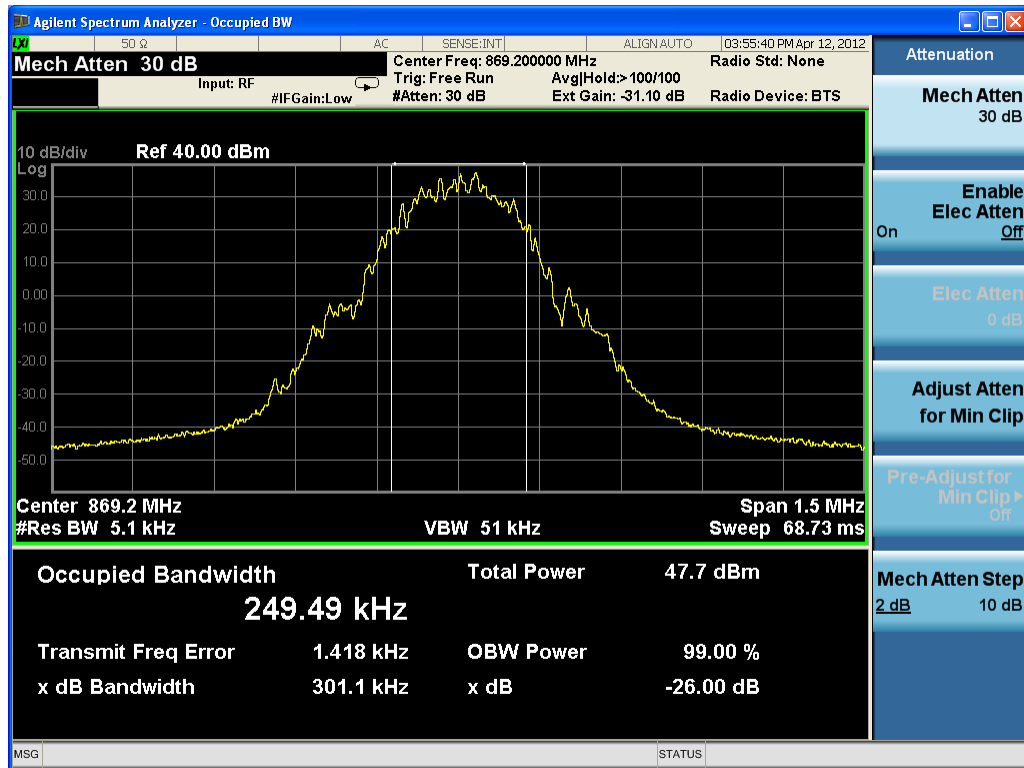
**Test Result:** Pass**Test Mode:** Transmitting GSM**Test Data**

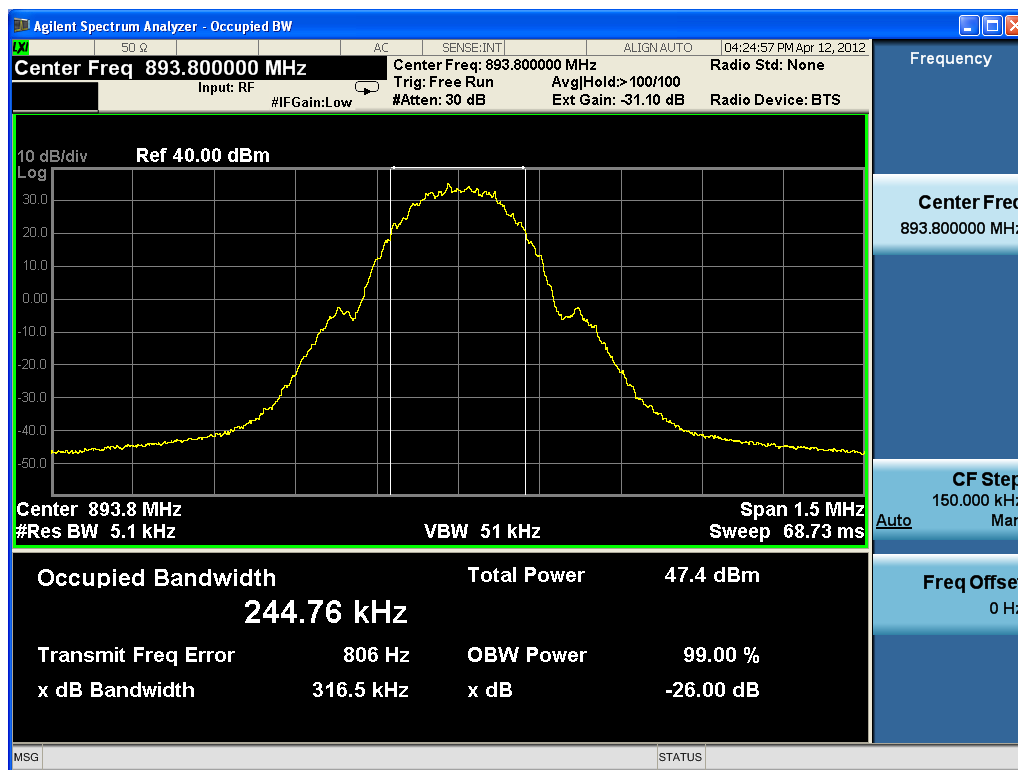
Modulation	Frequency (MHz)	99% Power Bandwidth (KHz)	Limit (KHz)
8PSK	869.2/881.4/893.8	243.27/243.92/241.86	250





Modulation	Frequency (MHz)	99% Power Bandwidth (KHz)	Limit (KHz)
GMSK	869.2/881.4/893.8	249.49/245.17/244.76	250





## 5.7 BAND EDGES

### Applicable Standard: FCC §2.1051

According to §2.1051, 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. The limit (dBm) should  $< P - (43 + 10 \log (P)) = -13 \text{ dBm}$ .

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements , traceable to NIST.

### 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.

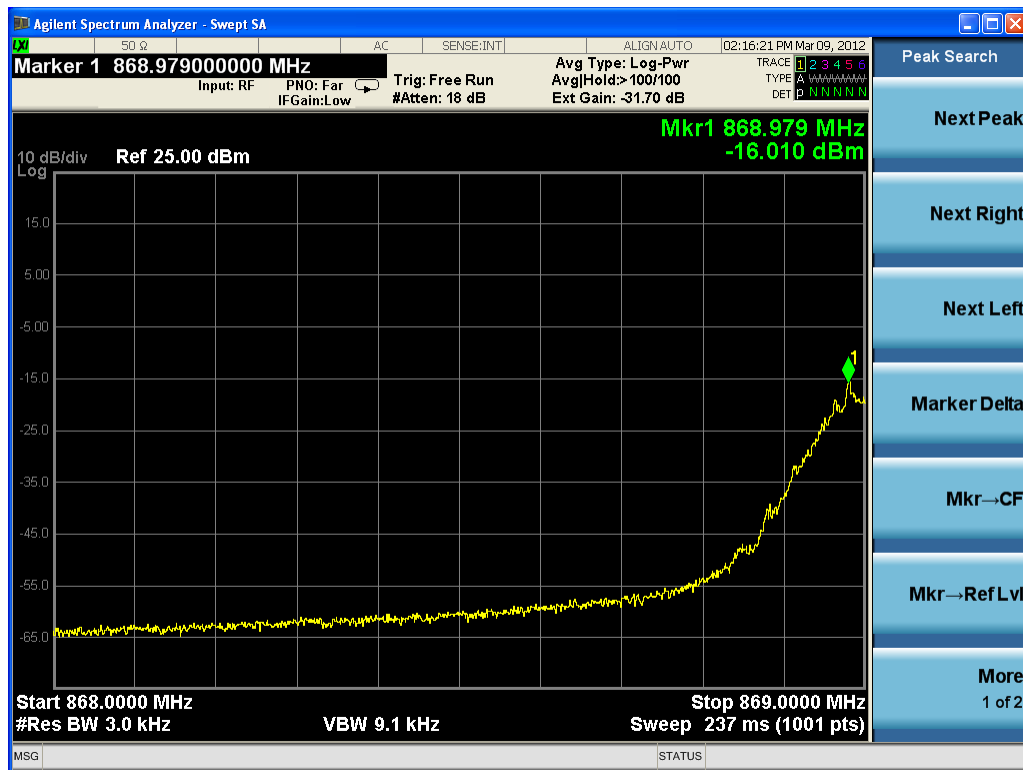
### Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53%
ATM Pressure:	1009mbar

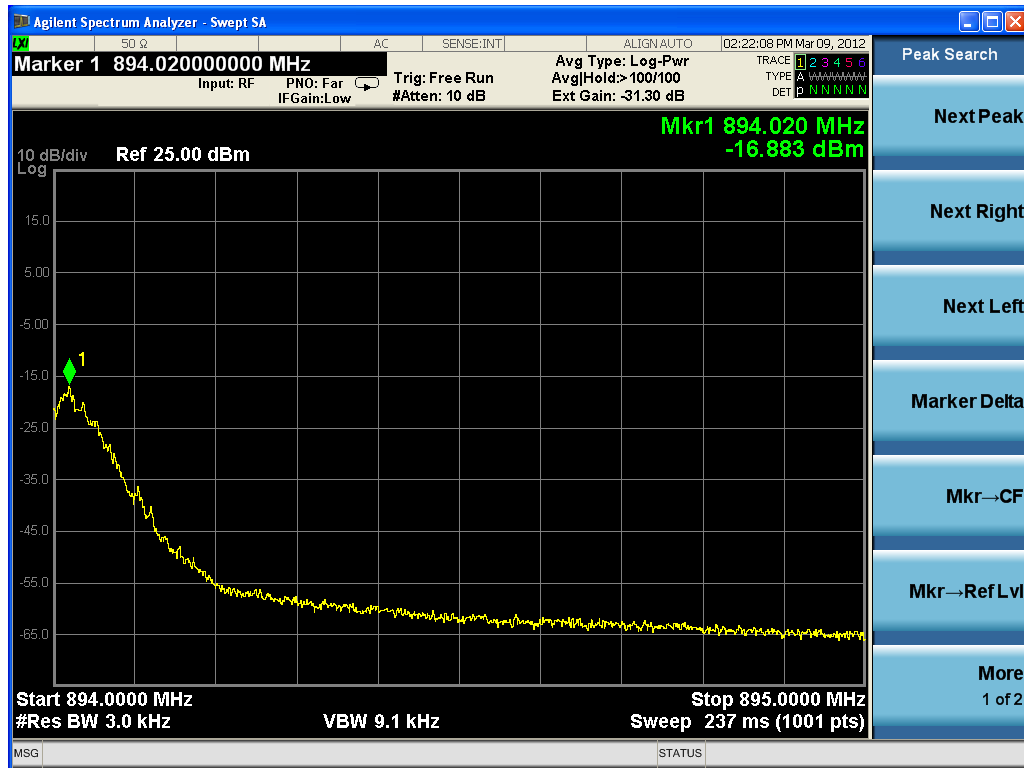
**Test Result:** Pass**Test Mode:** Transmitting GSM**Test Data**

For six carriers

Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2/869.8/ 870.4 /871 /871.6/ 872.2	-16.010	-13.00
890.8/891.4/892/892.6/893.2/893.8	-16.883	-13.00

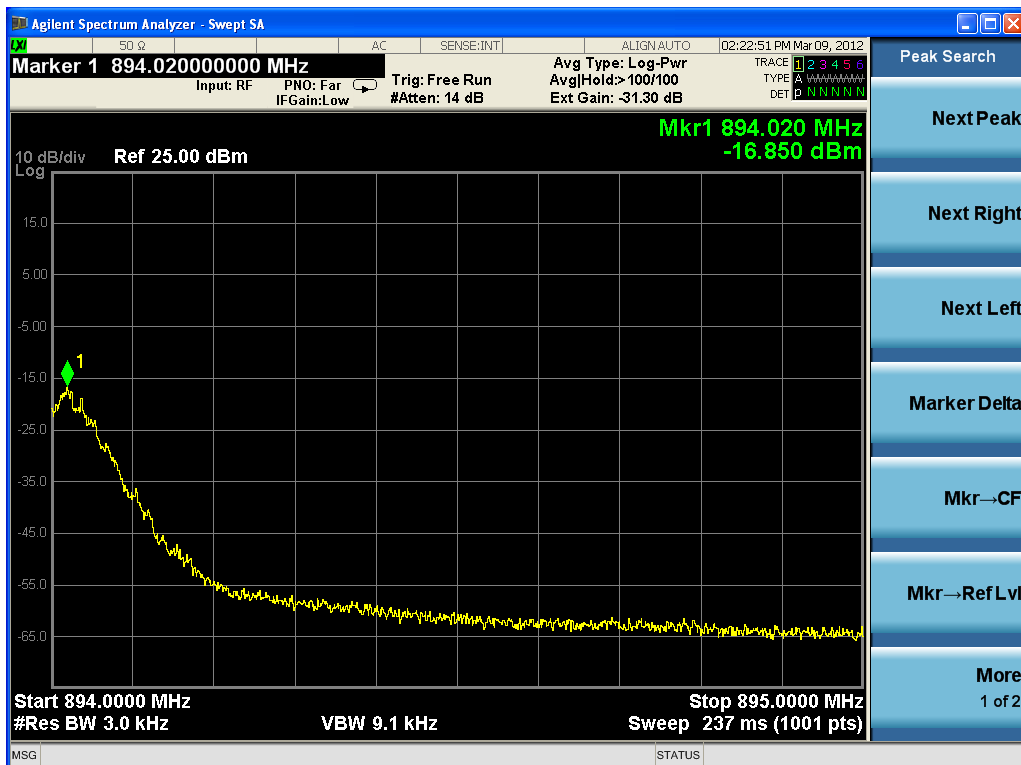
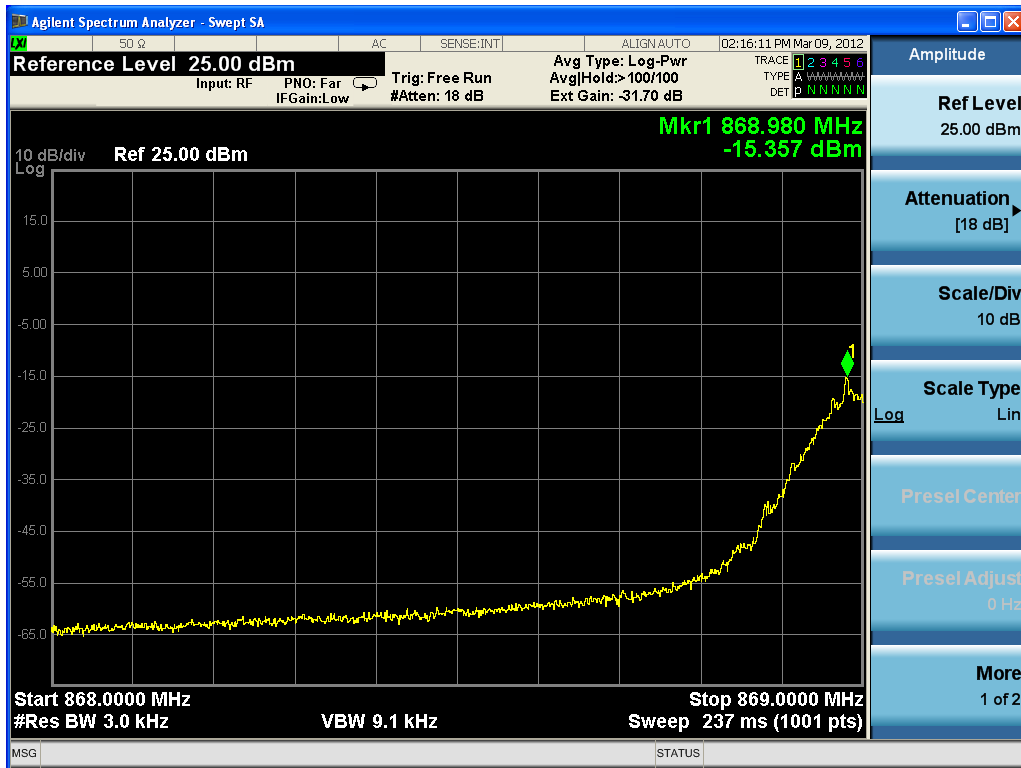






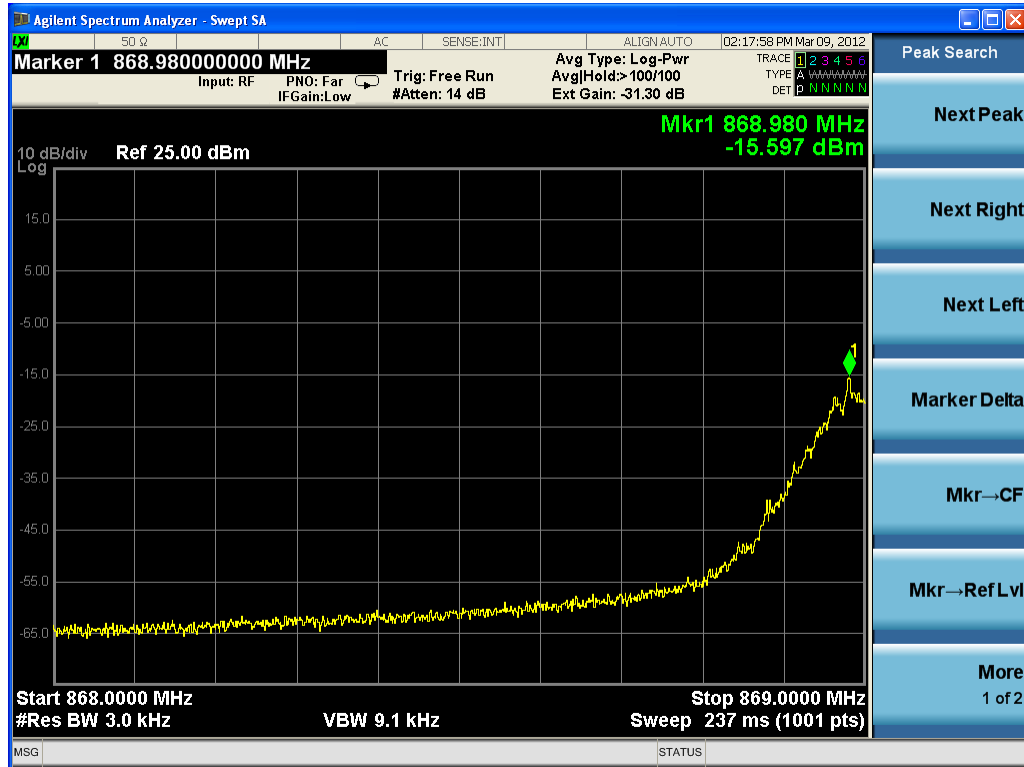
For five carriers

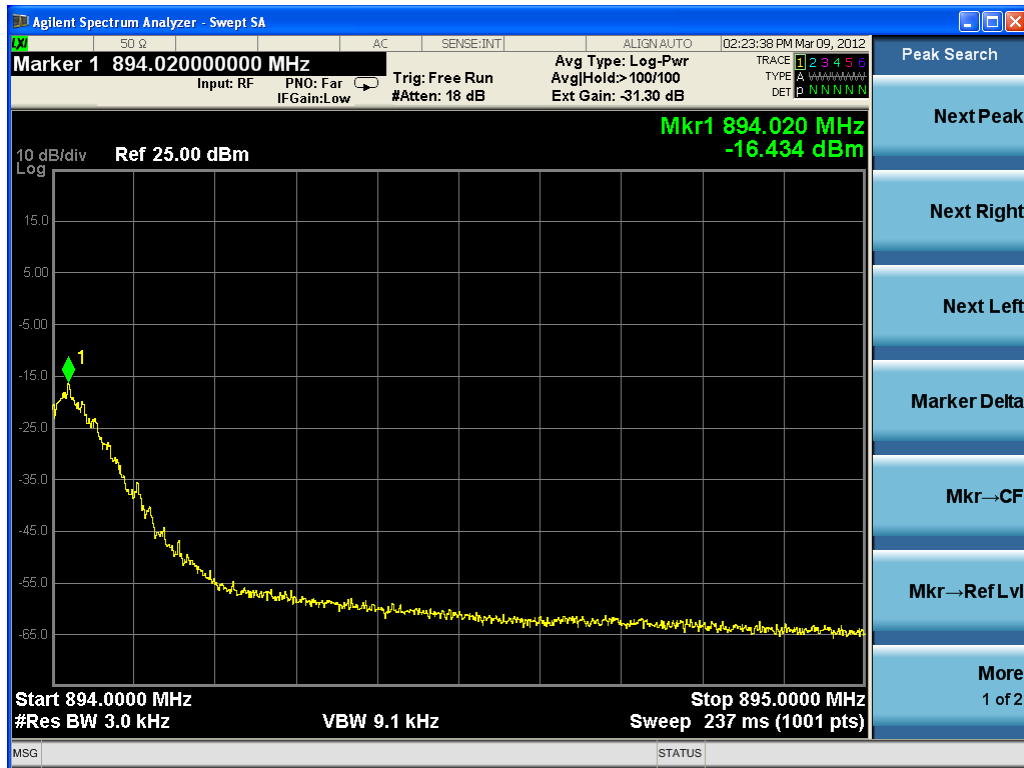
Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2/869.8/ 870.4 /871 /871.6	-15.357	-13.00
891.4/892/892.6/893.2/893.8	-16.850	-13.00



For four carriers

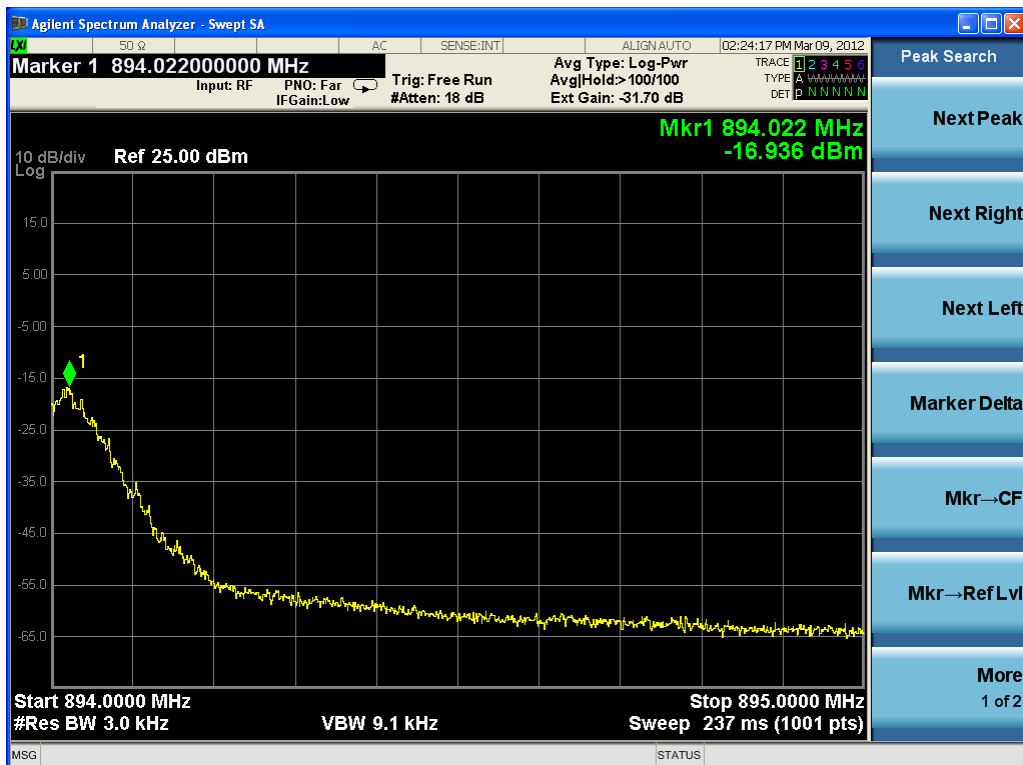
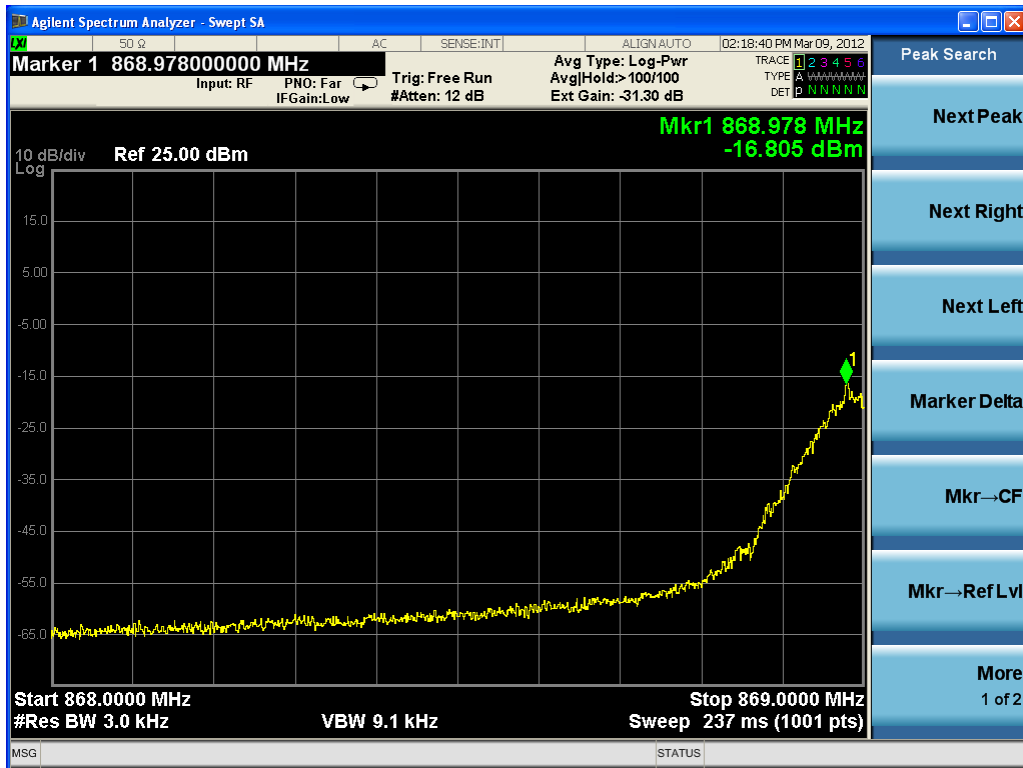
Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2/869.8/ 870.4 /871	-15.597	-13.00
892/892.6/893.2/893.8	-16.434	-13.00





For three carriers

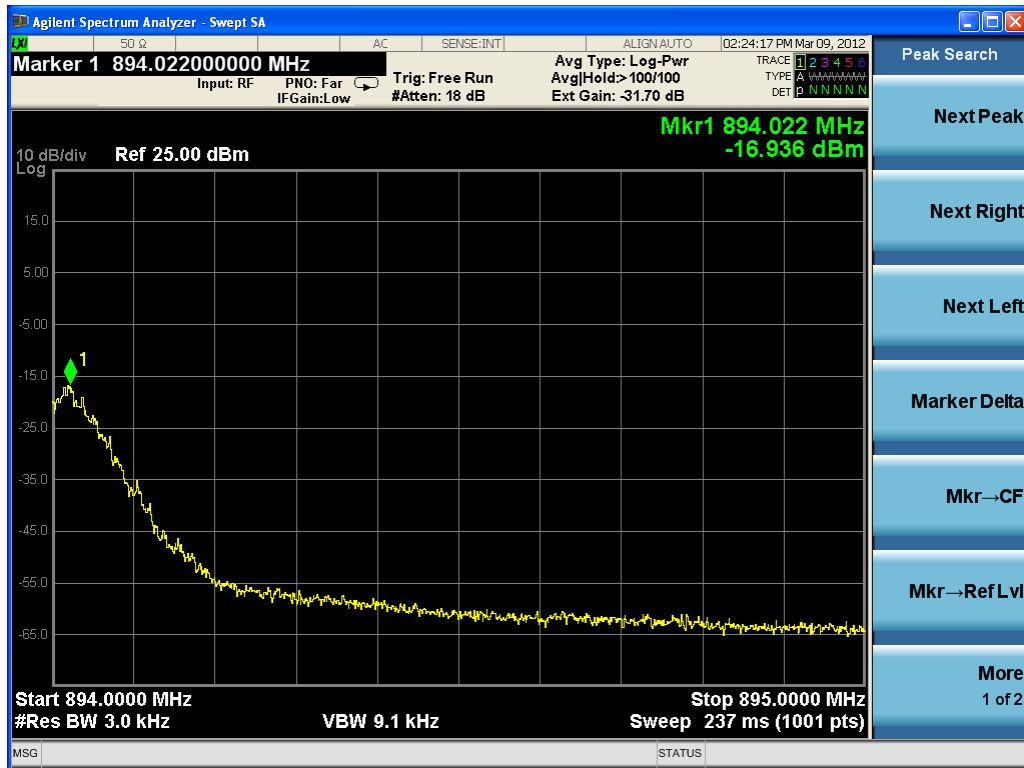
Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2/869.8/ 870.4	-16.805	-13.00
892.6/893.2/893.8	-16.936	-13.00



For two carriers

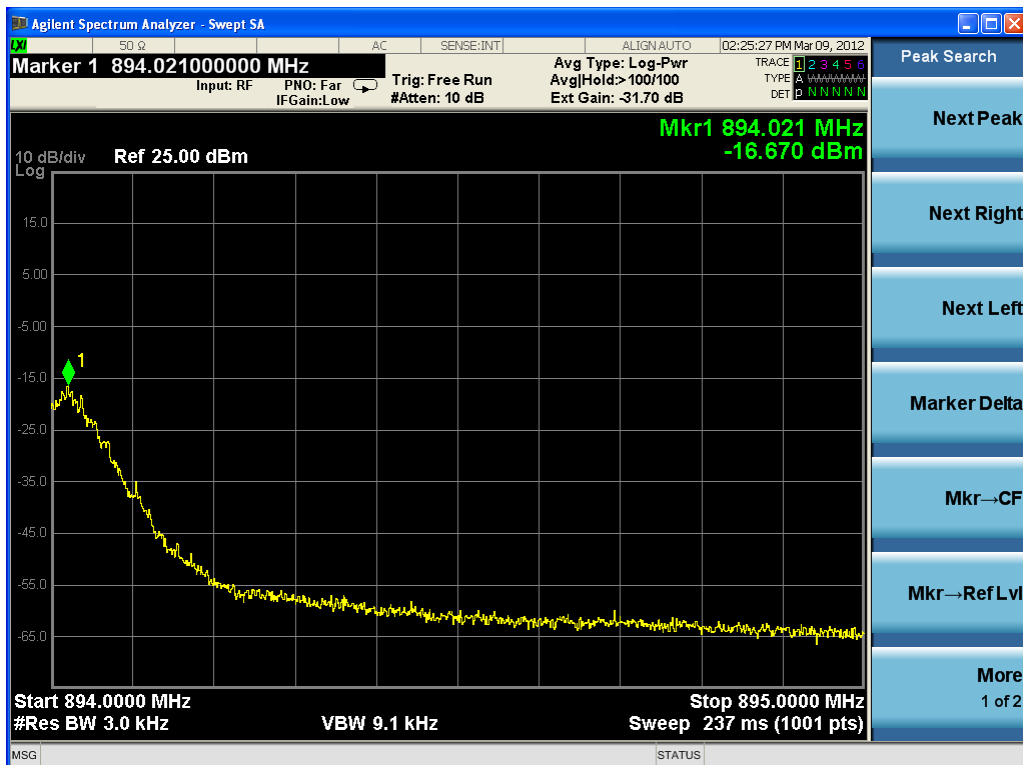
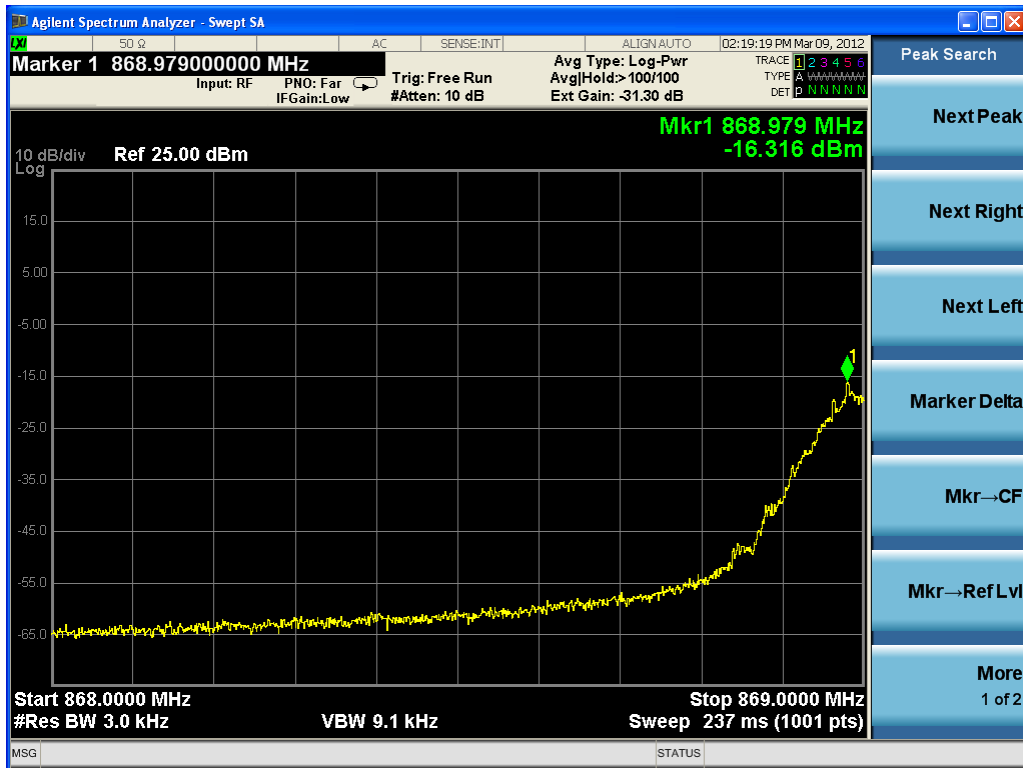
Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2/869.8	-16.358	-13.00
893.2/893.8	-16.936	-13.00





For One carrier

Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
869.2	-16.316	-13.00
893.8	-16.670	-13.00





## 5.8 FREQUENCY STABILITY

**Applicable Standard:** FCC § 2.1055, § 22.355

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	EW0470	06113028	2012-1-26	2013-1-26
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### 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 a Spectrum Analyzer 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 150 minutes, the frequency output was recorded from the counter.

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

### Environmental Conditions

Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

**Test Result:** Pass

**Test Mode:** Transmitting GSM

## Test Data

### Frequency Stability Versus Temperature

Frequency Stability vs Temperature					
Temperature (°C)	Power Supplied (V <sub>dc</sub> )	Frequency Measure Error ( Hz)	Error ( ppm)	Limit ( ppm)	Result
B(869.2MHz)					
-40	-48	-0.69	-0.00079	0.02	PASS
-30	-48	0.77	0.00089	0.02	PASS
-20	-48	-0.56	-0.00064	0.02	PASS
-10	-48	-0.54	-0.00062	0.02	PASS
0	-48	-0.45	-0.00052	0.02	PASS
10	-48	0.44	0.00051	0.02	PASS
20	-48	0.47	0.00054	0.02	PASS
30	-48	0.37	0.00043	0.02	PASS
40	-48	-0.69	-0.00079	0.02	PASS
50	-48	-1.06	-0.00122	0.02	PASS
55	-48	-1.16	-0.00133	0.02	PASS
M(881.4M)					
-40	-48	0.48	0.00054	0.02	PASS
-30	-48	0.69	0.00078	0.02	PASS
-20	-48	-0.55	-0.00062	0.02	PASS

-10	-48	-0.79	-0.00090	0.02	PASS
0	-48	-1.42	-0.00161	0.02	PASS
10	-48	1.58	0.00179	0.02	PASS
20	-48	0.38	0.00043	0.02	PASS
30	-48	1.35	0.00153	0.02	PASS
40	-48	-0.42	-0.00048	0.02	PASS
50	-48	1.86	0.00211	0.02	PASS
55	-48	1.93	0.00219	0.02	PASS
T(893.8M)					
-40	-48	0.69	0.00077	0.02	PASS
-30	-48	0.57	0.00064	0.02	PASS
-20	-48	-0.64	-0.00072	0.02	PASS
-10	-48	-0.75	-0.00084	0.02	PASS
0	-48	1.18	0.00132	0.02	PASS
10	-48	-1.41	-0.00158	0.02	PASS
20	-48	-0.43	-0.00048	0.02	PASS
30	-48	0.47	0.00053	0.02	PASS
40	-48	-0.77	-0.00086	0.02	PASS
50	-48	-1.24	-0.00139	0.02	PASS
55	-48	0.62	0.00069	0.02	PASS

## Frequency Stability Versus Voltage

Frequency Stability vs. Voltage					
Voltage V <sub>dc</sub>	Temperature °C	Frequency Measure Error Hz	Error ppm	Limit ppm	Result
B(869.2MHz)					
40	20	0.46	0.00053	0.02	PASS
43	20	-0.78	-0.00090	0.02	PASS
45	20	0.54	0.00062	0.02	PASS
47	20	-1.68	-0.00193	0.02	PASS
49	20	-0.96	-0.00110	0.02	PASS
51	20	-0.53	-0.00061	0.02	PASS
53	20	-1.51	-0.00174	0.02	PASS
55	20	-0.77	-0.00089	0.02	PASS
57	20	-0.58	-0.00067	0.02	PASS

M(881.4M)					
40	20	-1.89	-0.00214	0.02	PASS
43	20	-1.45	-0.00165	0.02	PASS
45	20	-1.36	-0.00154	0.02	PASS
47	20	1.68	0.00191	0.02	PASS
49	20	1.56	0.00177	0.02	PASS
51	20	0.58	0.00066	0.02	PASS
53	20	0.96	0.00109	0.02	PASS
55	20	-1.69	-0.00192	0.02	PASS
57	20	-1.94	-0.00220	0.02	PASS
T(893.8M)					
40	20	-0.69	-0.00077	0.02	PASS
43	20	1.22	0.00136	0.02	PASS
45	20	-0.35	-0.00039	0.02	PASS
47	20	-0.49	-0.00055	0.02	PASS
49	20	-0.69	-0.00077	0.02	PASS
51	20	1.05	0.00117	0.02	PASS
53	20	-0.68	-0.00076	0.02	PASS
55	20	-0.83	-0.00093	0.02	PASS
57	20	-0.91	-0.00102	0.02	PASS

## 6 DUAL-MODE OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§2.1046 ,§22.913	Transmitter output Power	Compliant
§2.1091 ,§1.1037	RF Exposure	Compliant
§2.1047	Modulation Characteristic	Compliant
§2.1053, §22.917	Spurious Radiated Emissions	Compliant
§2.1051, §22.917	Spurious Emissions AT Antenna Terminals	Compliant
§2.1049 §22.917	Occupied Bandwidth	Compliant
§2.1051, §22.917	Band Edge	Compliant
§ 2.1055, §22.355	Frequency stability	Compliant

## 6.1 TRANSMITTER OUTPUT POWER

**Applicable Standard:** FCC §2.1046 §22.913

According to FCC §2.1046 & 22.913, the ERP (equivalent radiated power) must not exceed 500 Watts.

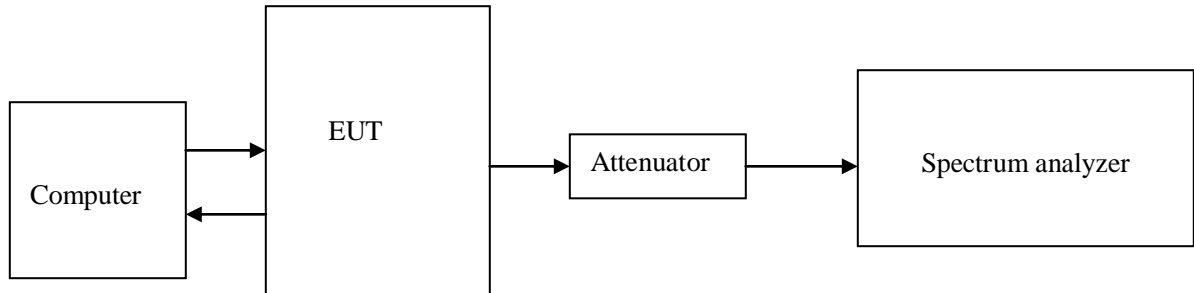
### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attests that all

calibration has been performed per the NVLAP requirements, traceable to NIST.

## Test Procedure



The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. External attenuation Loss is 30dB, Cable Loss is about 2dB

## Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

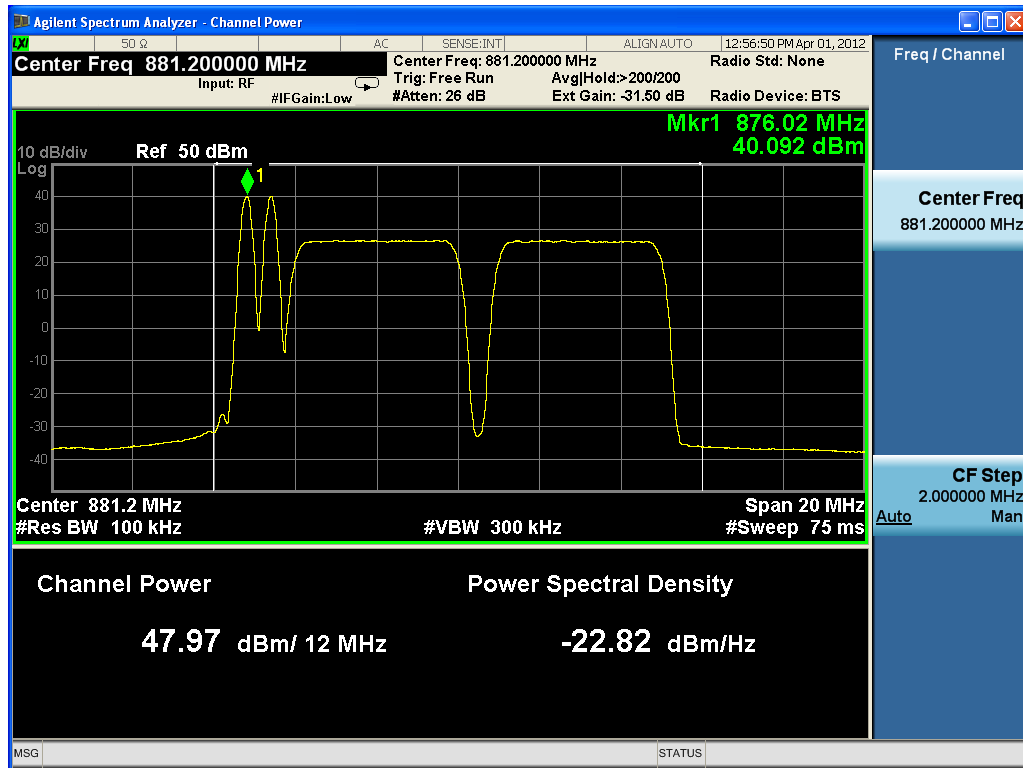
**Test Result:** Pass

**Test Mode:** Transmitting 2GSMTRX and 2UMTS carriers and 4GSMTRX and 1UMTS carriers

## Test Data:

2GSMTRX and 2UMTS carriers

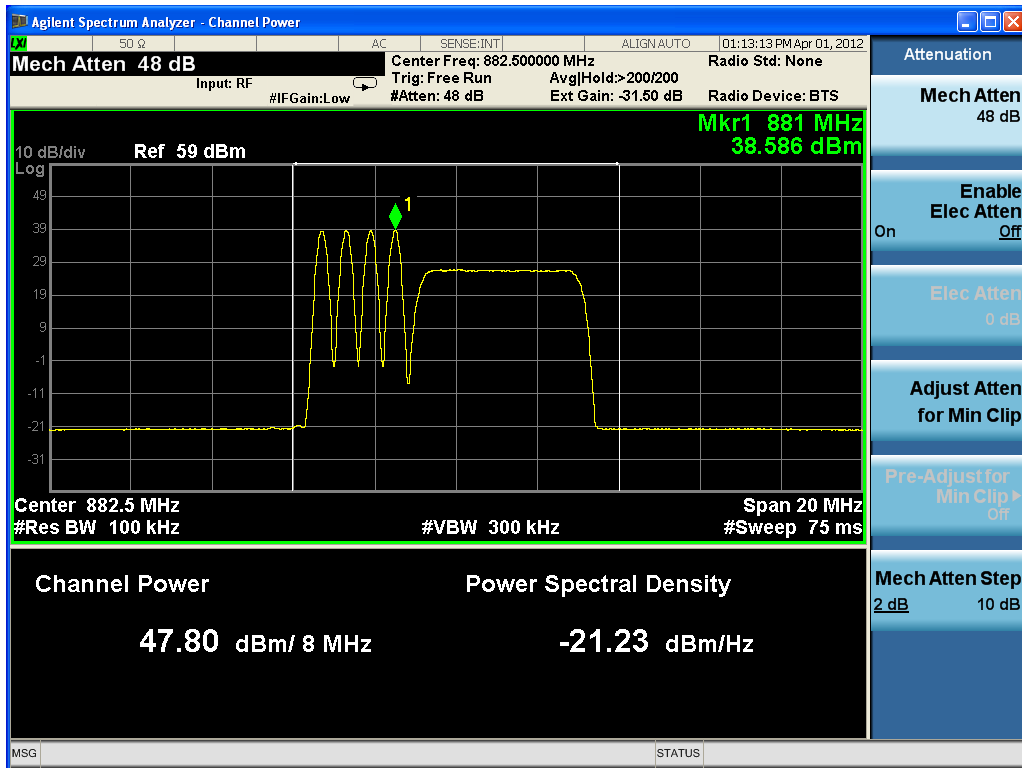
Center Freq. (MHz)	Frequency (MHz)	Max output Power (dBm)
881.2	881.2	47.97



#### 4GSMTRX and 1UMTS carriers

Center Freq. (MHz)	Frequency (MHz)	Max output Power (dBm)
882.5	882.5	47.80





## 6.2 RF EXPOSURE

**Applicable standard:** FCC §2.1091 §1.1037

### Limit

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated. Limits for Maximum Permissible Exposure (MPE)

**(B) Limits for General Population/Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

### Test Data

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \text{EIRP} / 4\pi R^2$$

Where: S = power density

EIRP= equivalent isotropically radiated power=ERP+2.15dB

R = distance to the center of radiation of the antenna= [(ERP+2.15dB)/4πS]<sup>1/2</sup>

Maximum EIRP, In general, the equivalent isotropically radiated power (EIRP) of base transmitters and cellular repeaters must not exceed 500 Watts.

Frequency is between 300MHz and 1500MHz, and the Maximum

$$S=894/1500=0.596\text{mW/cm}^2, R=3.31\text{m}.$$

This equipment should be installed and operated with minimum distance 3.31m between the radiator& your body.

**Test Result: pass**

## 6.3 SPURIOUS RADIATED EMISSIONS

**Applicable Standard:** FCC CFR 47, §2.1053

### Test Equipment List and Details

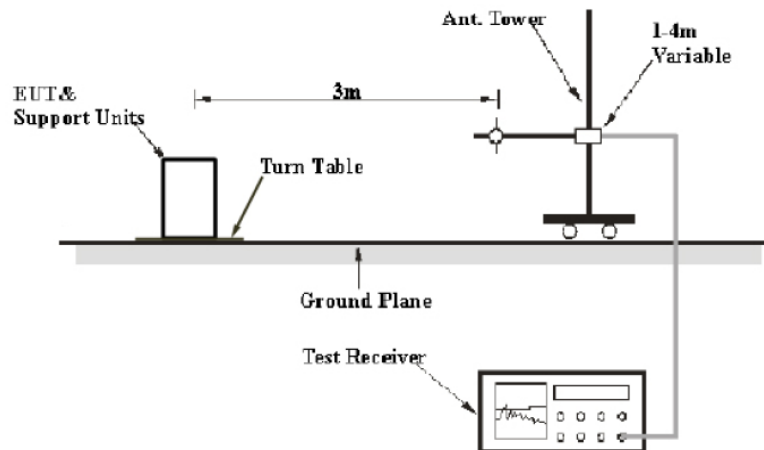
Manufacturer	Equipment	Model	Serial Number	Last Cal.	Cal. Interval
R&S	SIGNAL GENERATOR	SMR20	A00017351	2011-9-26	1 year
Albatross	Anechoic Chamber	3m Site	A00017354	2011-11-2	1 year
R&S	EMI Test Receiver	ESIB26	100058	2011-10-29	1 year
R&S	Ultra Breitband Antennas	HL562	100022	2011-7-29	1 year
R&S	Double-Ridged Waveguide Horn Antenna	HF906	100032	2011-7-29	1 year
R&S	Double-Ridged Waveguide Horn Antenna	HF906	100446	2011-7-29	1 year
SCHWARZ-BECK	Biconical Antenna	VUBA9117	9117-122	2011-7-29	1 year

#### Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiated emissions measurement at the EMC lab. is 3.6dB.

#### EUT Setup



The radiated emission tests were performed in the 3-meter Chamber, using the setup accordance with the FCC part 2.1053. The specification used was the FCC 2.1053 limits.

## Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =  $10 \lg(\text{TX pwr in Watts}/0.001)$  - the absolute level

Spurious attenuation limit in dB =  $43 + 10 \lg P$  (power out in Watts)

The resolution bandwidth of the spectrum analyzer was set at 1 percent as specified for 30MHz to 1GHz scanning, set at 1MHz for 1GHz to 20GHz scanning.

## Test Results Summary: PASS

## Environmental Conditions

Temperature:	26°C
Relative Humidity:	60 %
ATM Pressure:	1009 mbar

## Test data

Indicated		Test Antenna	Substituted		Cable Loss(dB)	Effective radiated power (dBm)	Dipole Antenna	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (GHz)	Amp. (dB $\mu$ V)	Polar H/V	Level (dBm)	Antenna Gain Correction						
33.887776	23.08	V	-36	-42.03	0.3	-78.33	2.15	-80.48	-13	67.48
125.250501	22.74	V	-64.26	-10.46	0.8	-75.52	2.15	-77.67	-13	64.67
148.577154	23.36	V	-62.59	-6.46	1	-70.05	2.15	-72.2	-13	59.2
593.727455	27.02	V	-68.97	-1.21	2	-72.18	2.15	-74.33	-13	61.33
895.03006	78.46	V	-18.73	-1.54	2.5	-22.77	2.15	-24.92	-13	11.92
2755.51102	53.66	V	-48.59	7.95	4.4	-45.04	2.15	-47.19	-13	34.19
30	22.38	H	-30.36	-43.49	0.3	-74.15	2.15	-76.3	-13	63.3
138.857715	22.27	H	-69.77	-8.42	1	-79.19	2.15	-81.34	-13	68.34
150.521042	23.61	H	-68.43	-5.7	1	-75.13	2.15	-77.28	-13	64.28
644.268537	26.85	H	-74.04	-1.09	2.1	-77.23	2.15	-79.38	-13	66.38
893.086172	78.5	H	-18.59	-1.54	2.5	-22.63	2.15	-24.78	-13	11.78
2791.58317	53.68	H	-54.72	7.95	4.5	-51.27	2.15	-53.42	-13	40.42

### Radiation emission spurious below 3GHz

Indicated		Test Antenna	Substituted		Cable Loss(dB)	Effective radiated power (dBm)	Dipole Antenna	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (GHz)	Amp. (dB $\mu$ V)	Polar H/V	Level (dBm)	Antenna Gain Correction						
4811.62325	41.88	V	-65.72	9.15	5.9	-62.47	2.15	-64.62	-13	51.62
6142.28457	47.82	V	-59.65	9.05	6.8	-57.4	2.15	-59.55	-13	46.55
6991.98397	48.96	V	-59.21	9.25	7.3	-57.26	2.15	-59.41	-13	46.41
7541.58317	50.02	V	-62.33	9.25	7.7	-60.78	2.15	-62.93	-13	49.93
9846.19239	55.41	V	-53.41	9.95	8.9	-52.36	2.15	-54.51	-13	41.51
12646.2926	56.48	V	-53.22	12.15	9.9	-50.97	2.15	-53.12	-13	40.12
3801.60321	40.63	H	-63.06	7.75	5.2	-60.51	2.15	-62.66	-13	49.66
4731.46293	42.01	H	-61.42	9.15	5.8	-58.07	2.15	-60.22	-13	47.22
6182.36473	47.9	H	-55.49	9.05	6.9	-53.34	2.15	-55.49	-13	42.49
7622.24449	49.3	H	-59.33	9.25	7.8	-57.88	2.15	-60.03	-13	47.03
9869.23848	55.92	H	-53.02	9.95	8.8	-51.87	2.15	-54.02	-13	41.02
12404.3086	56.89	H	-55.26	12.05	9.9	-53.11	2.15	-55.26	-13	42.26

### Radiation emission spurious above 3GHz

## 6.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

**Applicable Standard:** FCC§2.1051, §22.917

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

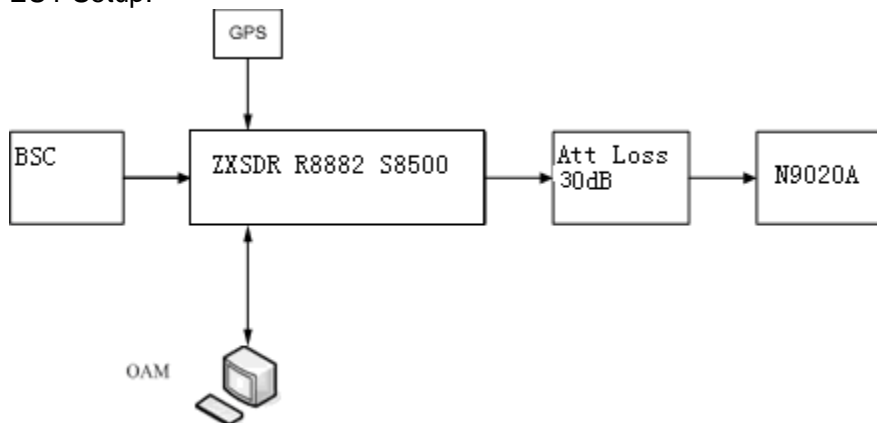
### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

EUT Setup:



REMARKS: Attenuator loss (dB)=30dB, Cable Loss (dB)=2dB.

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100KHz for 30MHz to 1GHz band, set at 1MHz for 1GHz to 10GHz band. Sufficient scans were taken to

show any out of band emissions up to 10th harmonic.

## Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

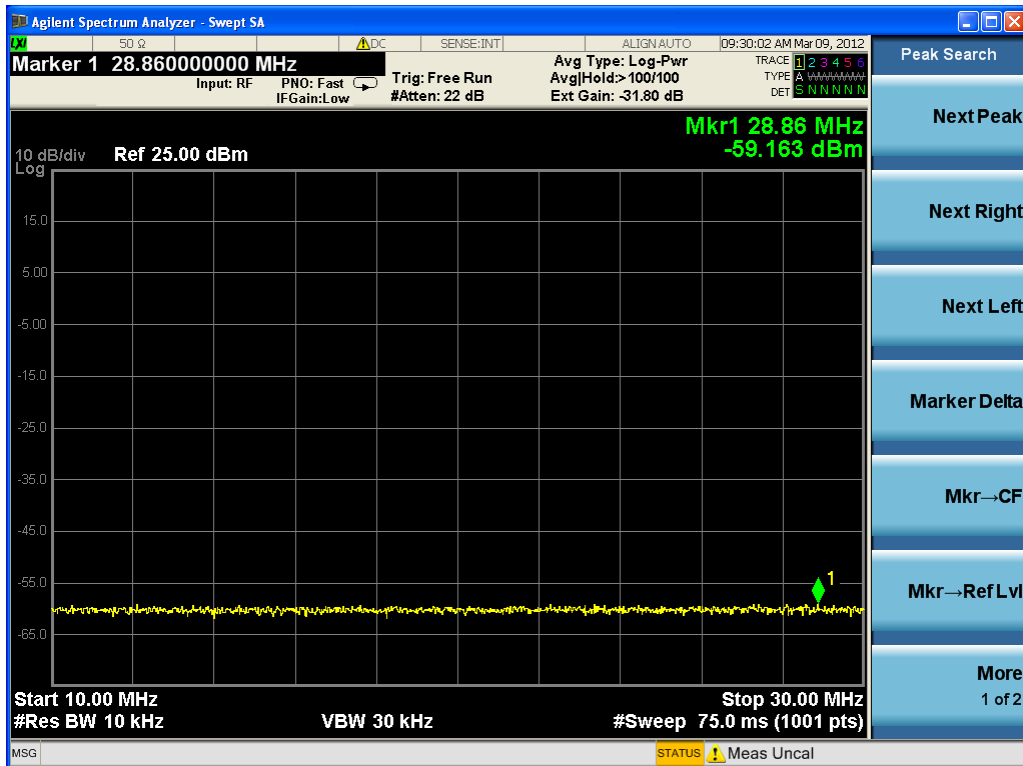
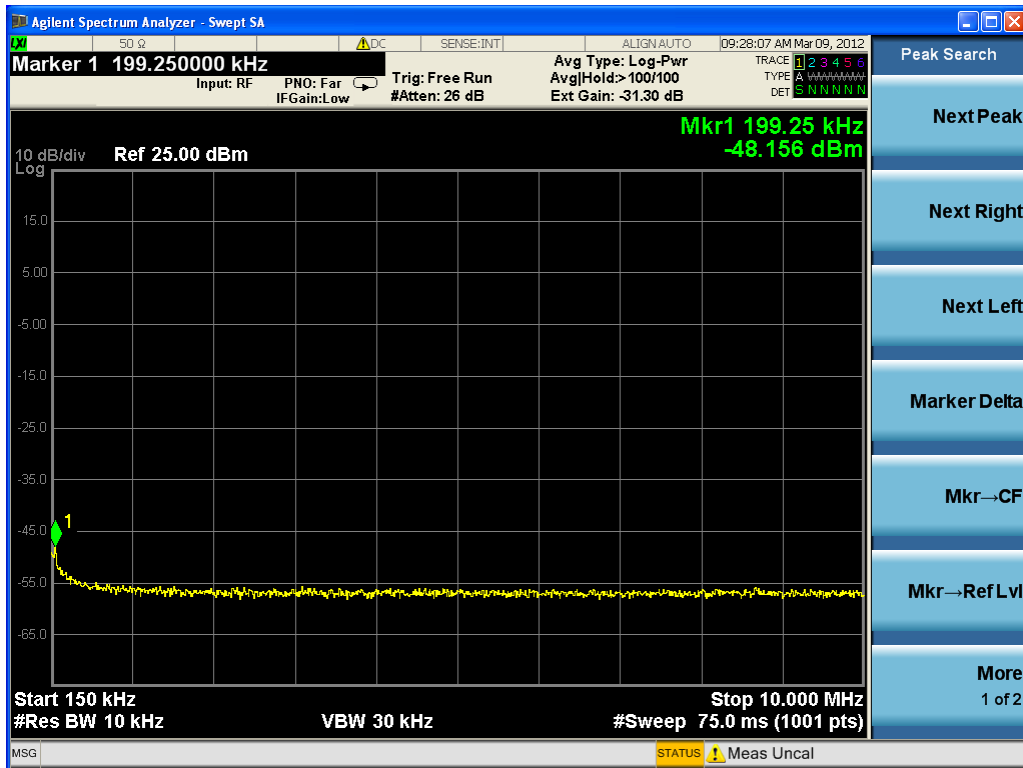
**Test Result:** Pass

**Test Mode:** Transmitting 2GSMTRX and 2UMTS carriers and 4GSMTRX and 1UMTS carriers

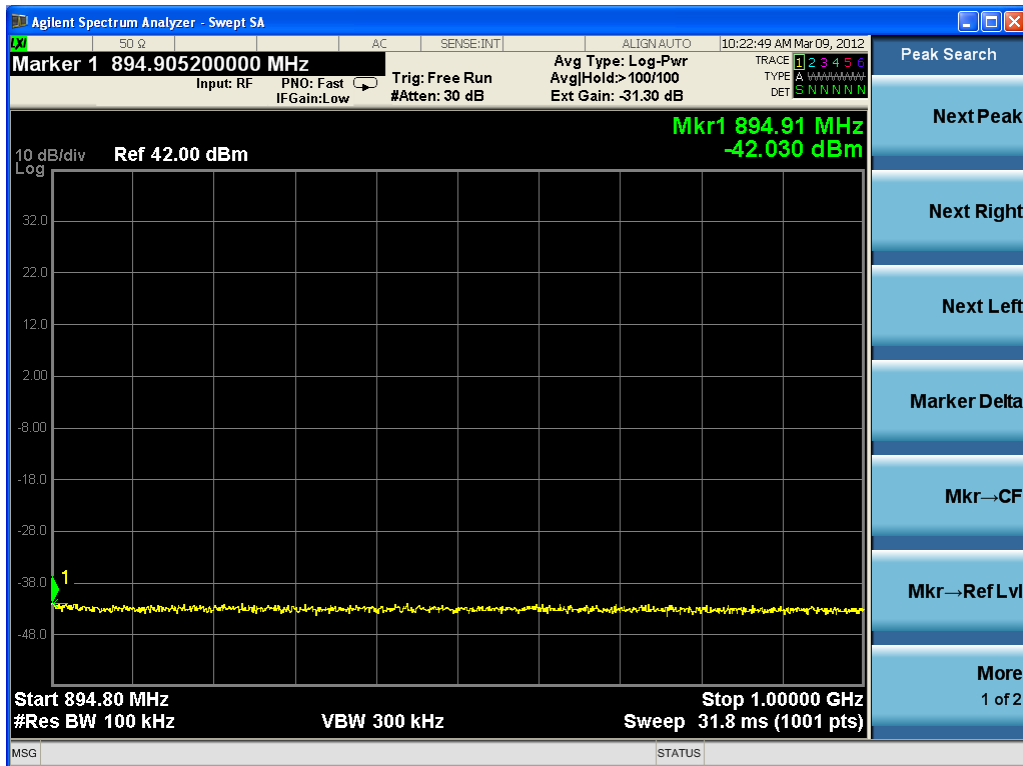
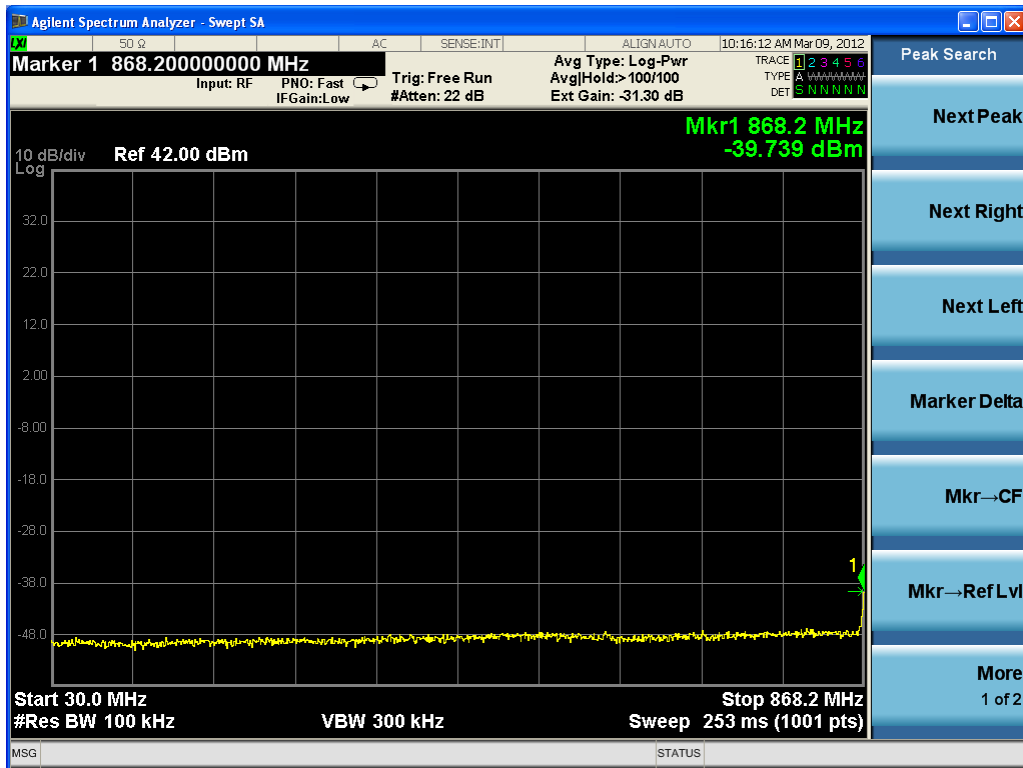
## Test Data:

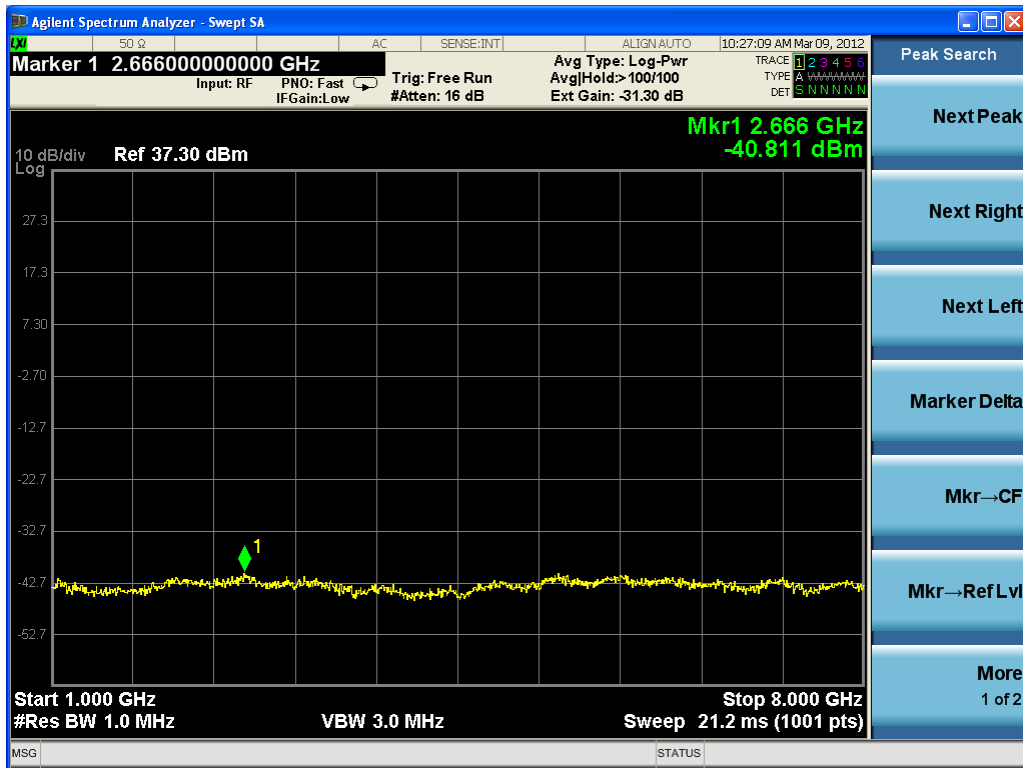
2GSMTRX and 2UMTS carriers



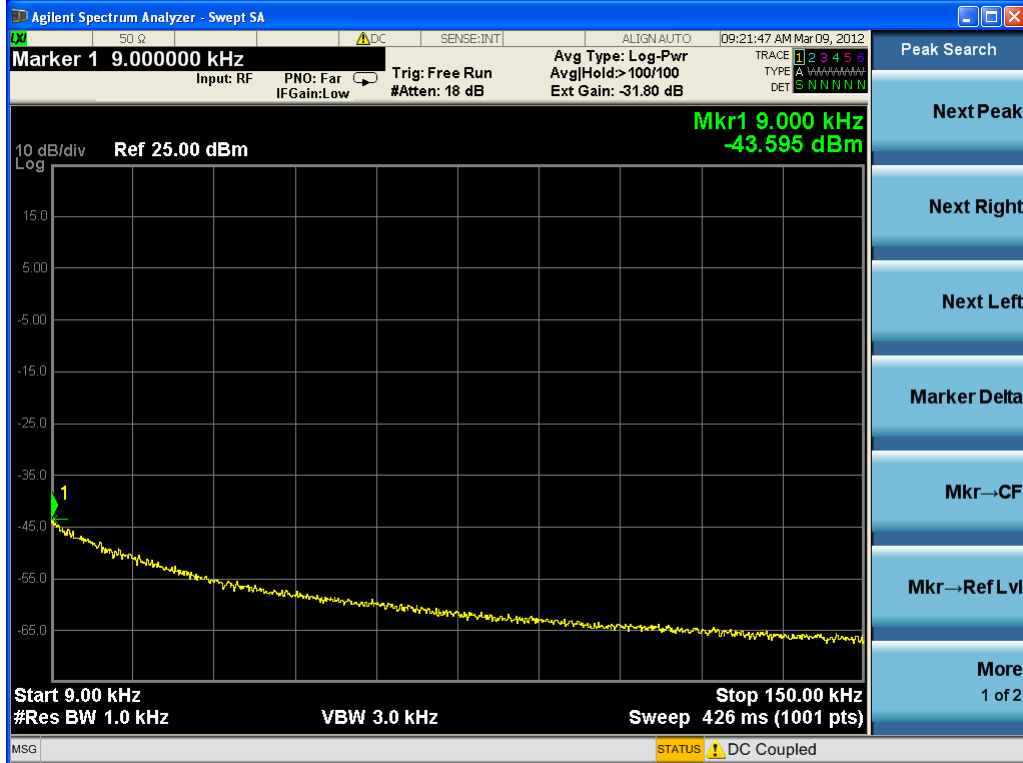


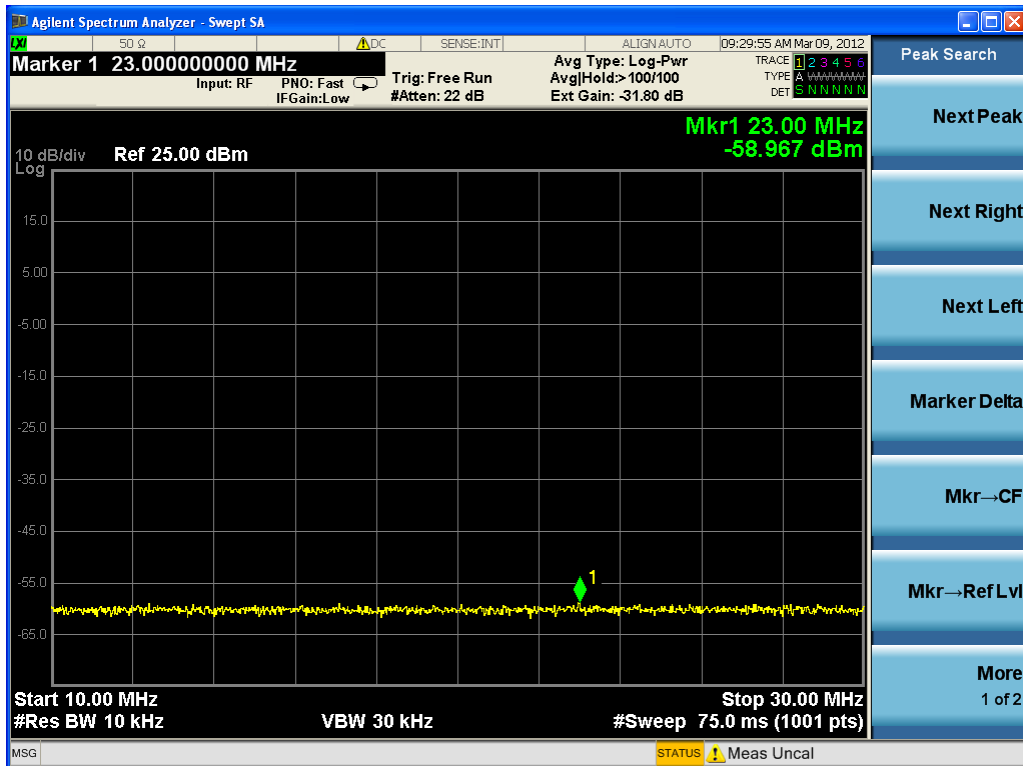
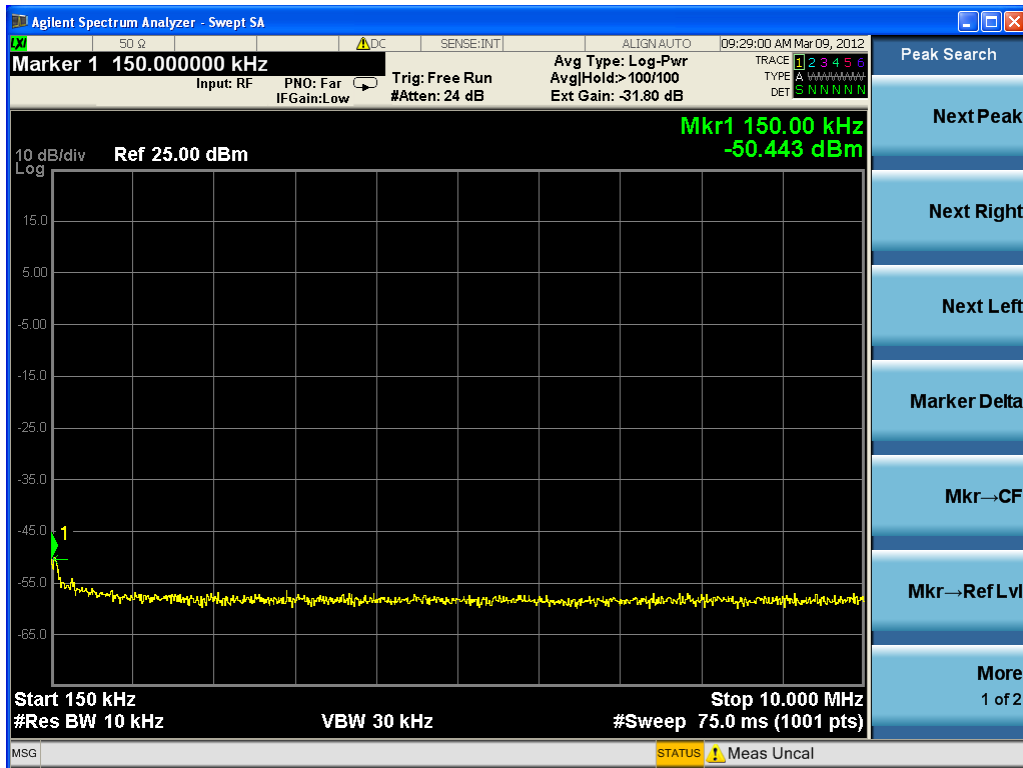


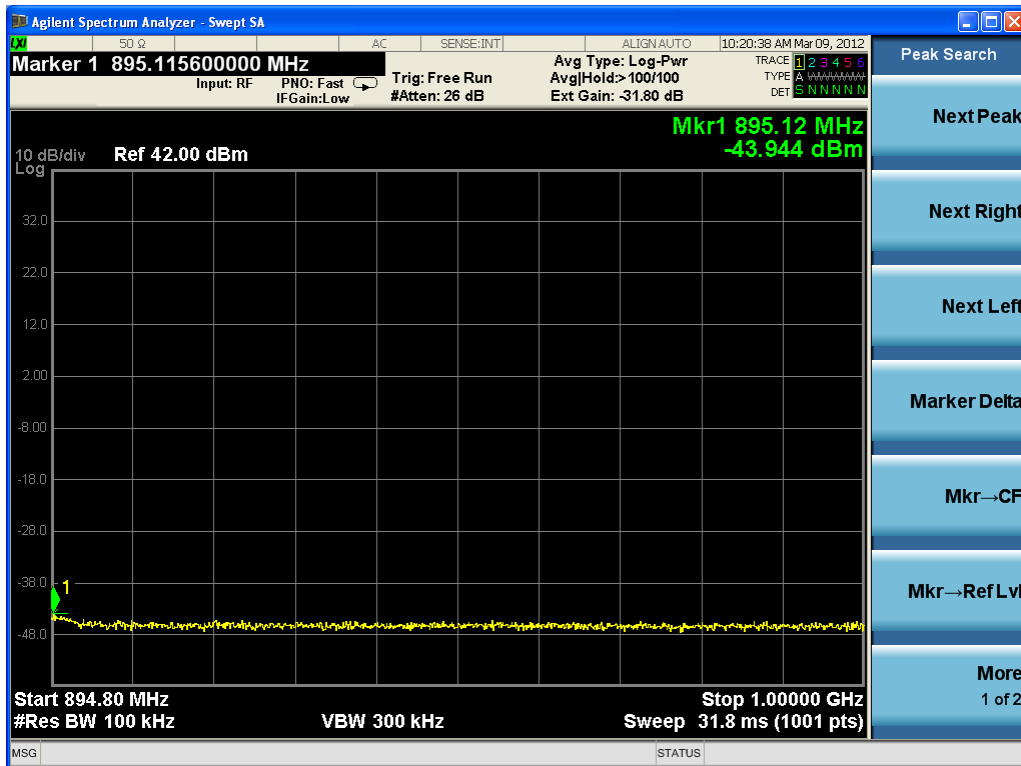
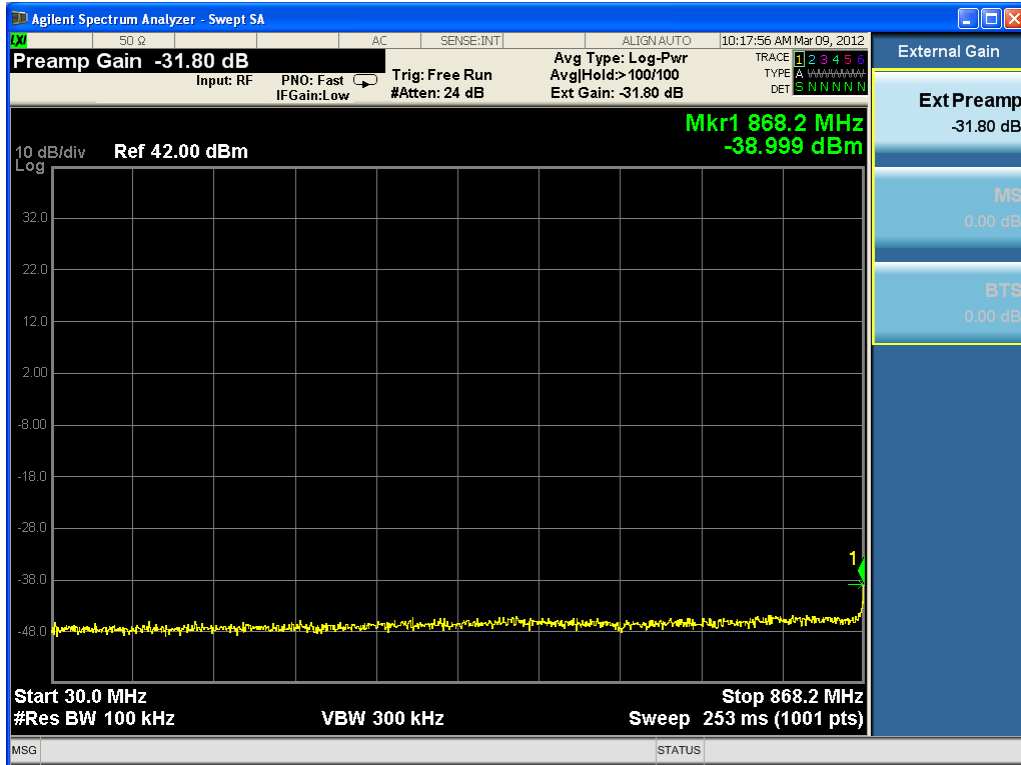


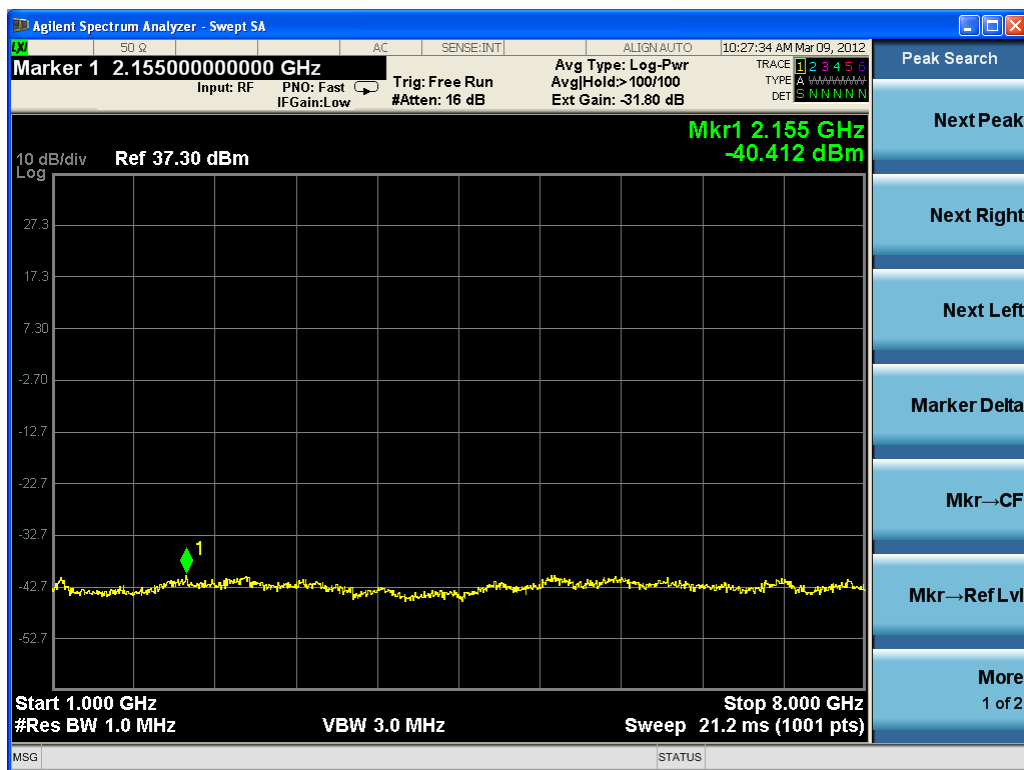


4GSMTRX and 1UMTS carriers









## 6.5 OCCUPIED BANDWIDTH

**Applicable Standard:** FCC §2.1049 §22.917

### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### Test Procedure

The RF out of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation. 99%Power bandwidth was recorded.

### Environmental Conditions

Temperature:	20 ° C
Relative Humidity:	53%
ATM Pressure:	1009mbar

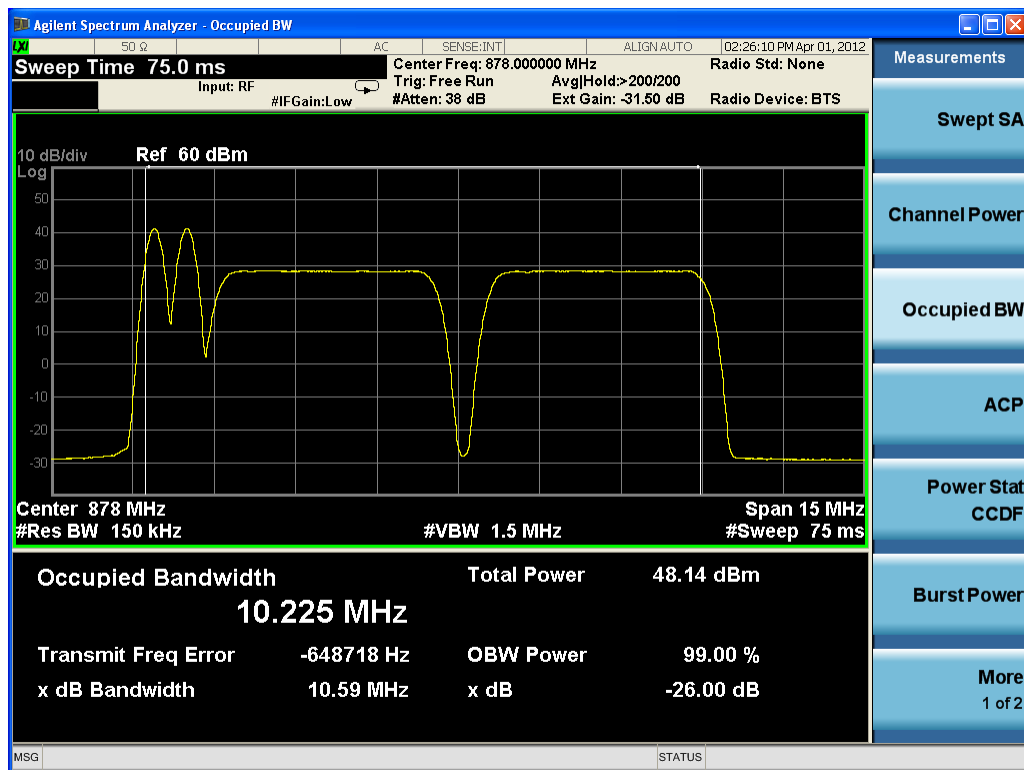
**Test Result:** Pass

**Test Mode:** Transmitting 2GSMTRX and 2UMTS carriers and 4GSMTRX and 1UMTS carriers

**Test Data**

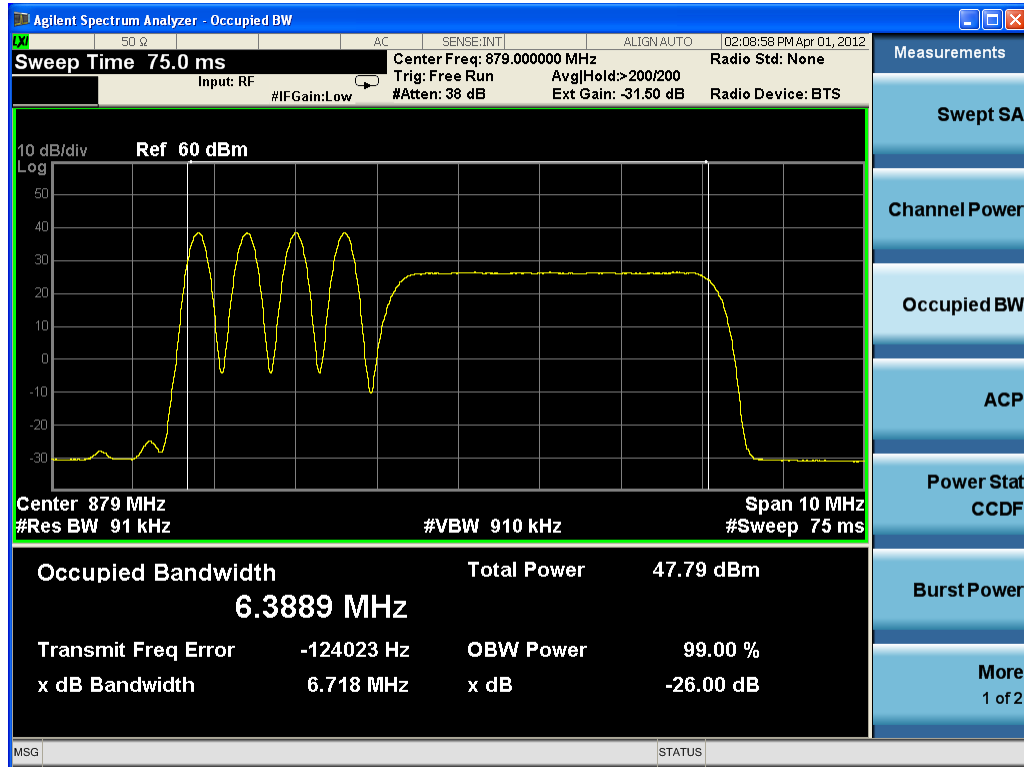
2GSMTRX and 2UMTS carriers

Frequency (MHz)	99% Power Bandwidth (MHz)
878	10.225



## 4GSMTRX and 1UMTS carrier

Frequency (MHz)	99% Power Bandwidth (MHz)
879	6.3889





## 6.6 BAND EDGES

### Applicable Standard: FCC §2.1051

According to §2.1051, 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. The limit (dBm) should  $< P - (43 + 10 \log(P)) = -13 \text{ dBm}$ .

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY48011941	2011-4-8	2012-4-7
Atten	30dB Attenuator	ATSI150-4-30	11300110201221	2011-7-11	2012-7-11
Forstar	Forstar RF Cable	002	1034	2011-4-8	2012-4-7

**\*statement of traceability:** ZTE Corporation Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

### 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.

### Test Data Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53%
ATM Pressure:	1009mbar

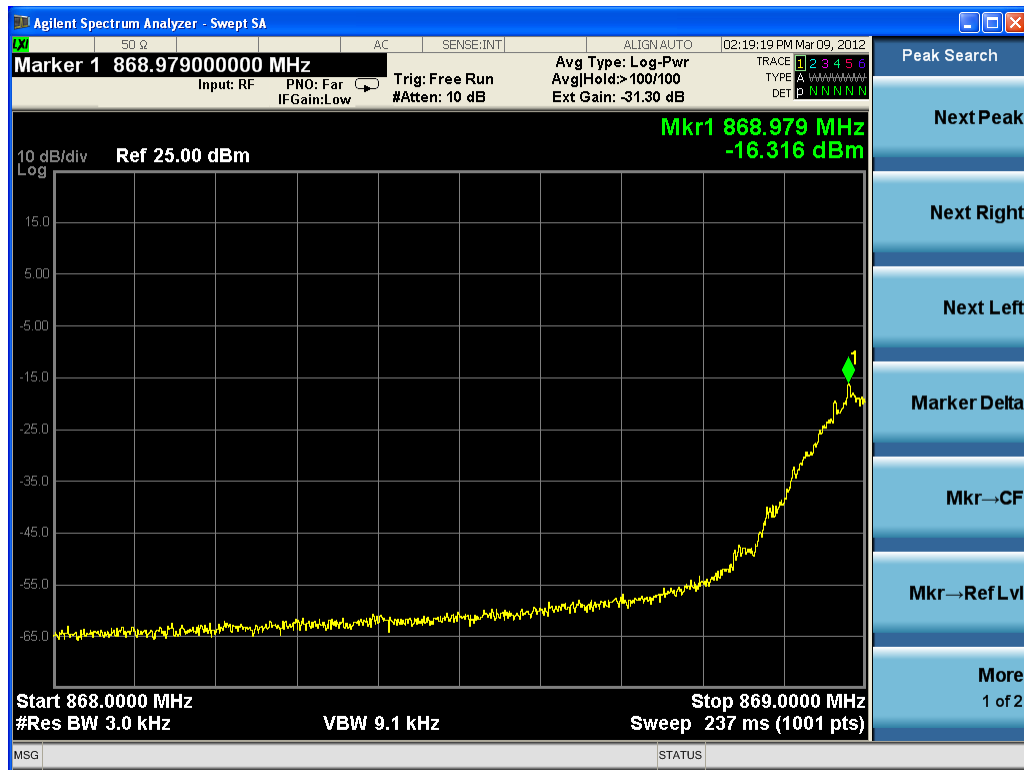
**Test Result:** Pass

**Test Mode:** Transmitting 2GSMTRX and 2UMTS carriers and 4GSMTRX and 1UMTS carriers

**Test Data**

2GSMTRX and 2UMTS carriers

Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
868-869	-16.316	-13.00
894-895	-16.670	-13.00





4GSMTRX and 1UMTS carrier

Frequency channel	Max bandedge Emission (dBm)	Limit (dBm)
868-869	-16.123	-13.00
894-895	-16.252	-13.00

