

8 §2.1051, §27.53- SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard Requirements: CFR 47§2.1051, §27.53 .

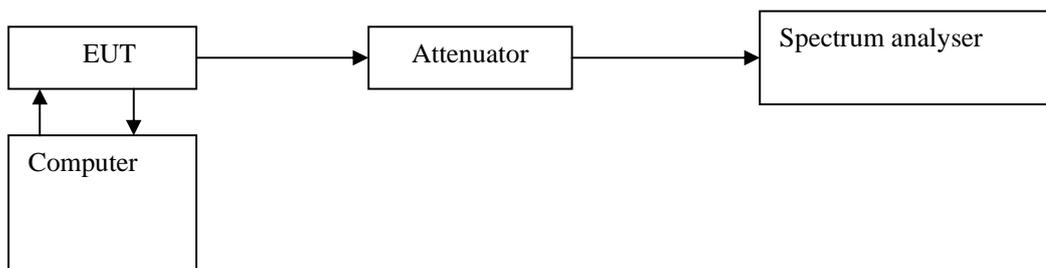
The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in §2.1051.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	N/A	2009-4-10	2010-4-9
YLT	SN-SJ-150 40dB Attenuator	SN-SJ-150	N/A	N/A	N/A
SWA	SWA Packard RF Cable	RFC1/07-1050	N/A	N/A	N/A

Test Procedure

EUT Setup:



REMARKS: Attenuator loss (dB)=40dB, Cable Loss (dB)=4.5dB.

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 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

Environmental Conditions

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

The testing was performed by Wei bin from Oct 26,2009 to Dec 21,2009

Test Result: Pass

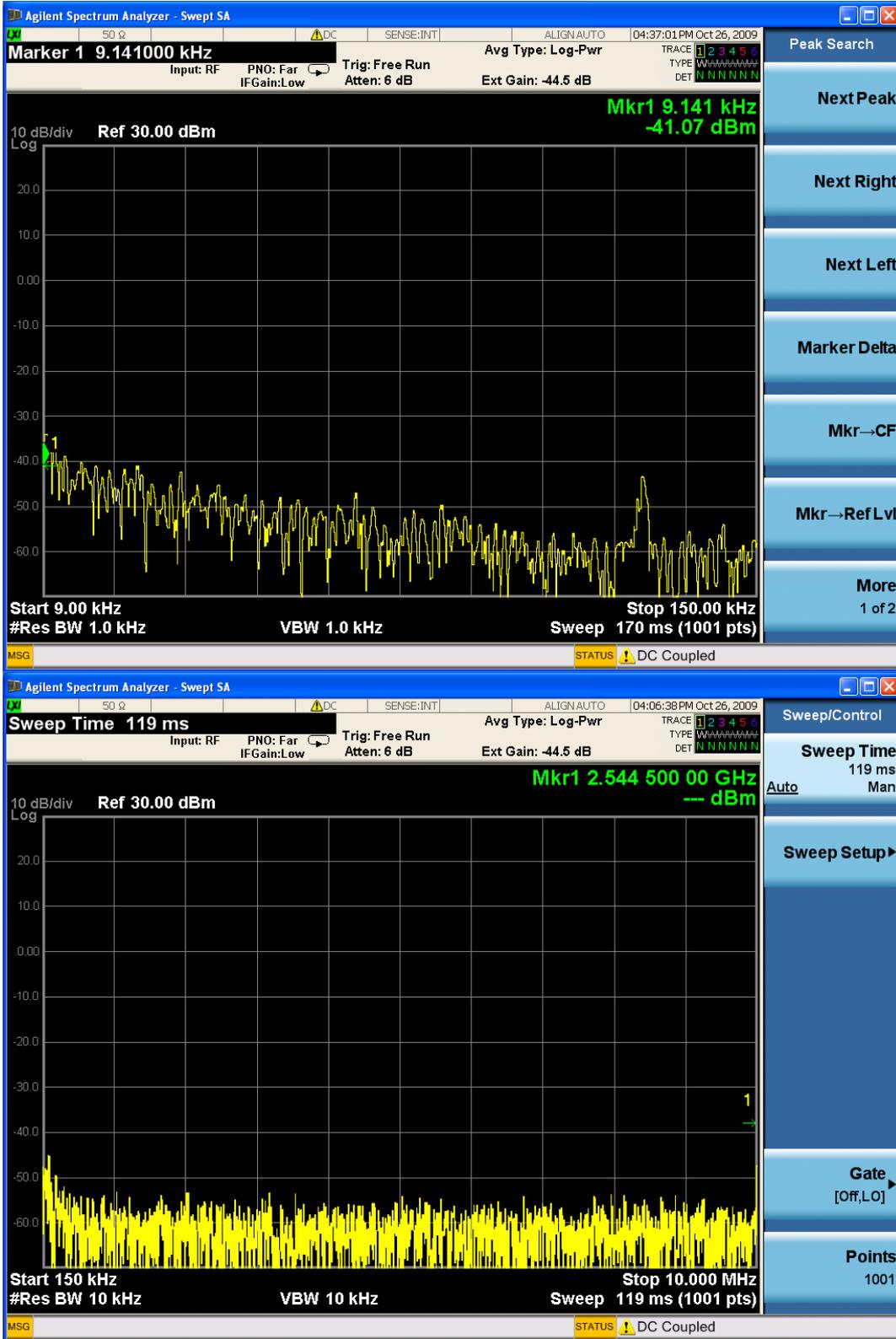
Test Mode: Transmitting OFDMA 802.16e (with QPSK Modulation the worst case antenna 1, occupied bandwidth is 10MHz)

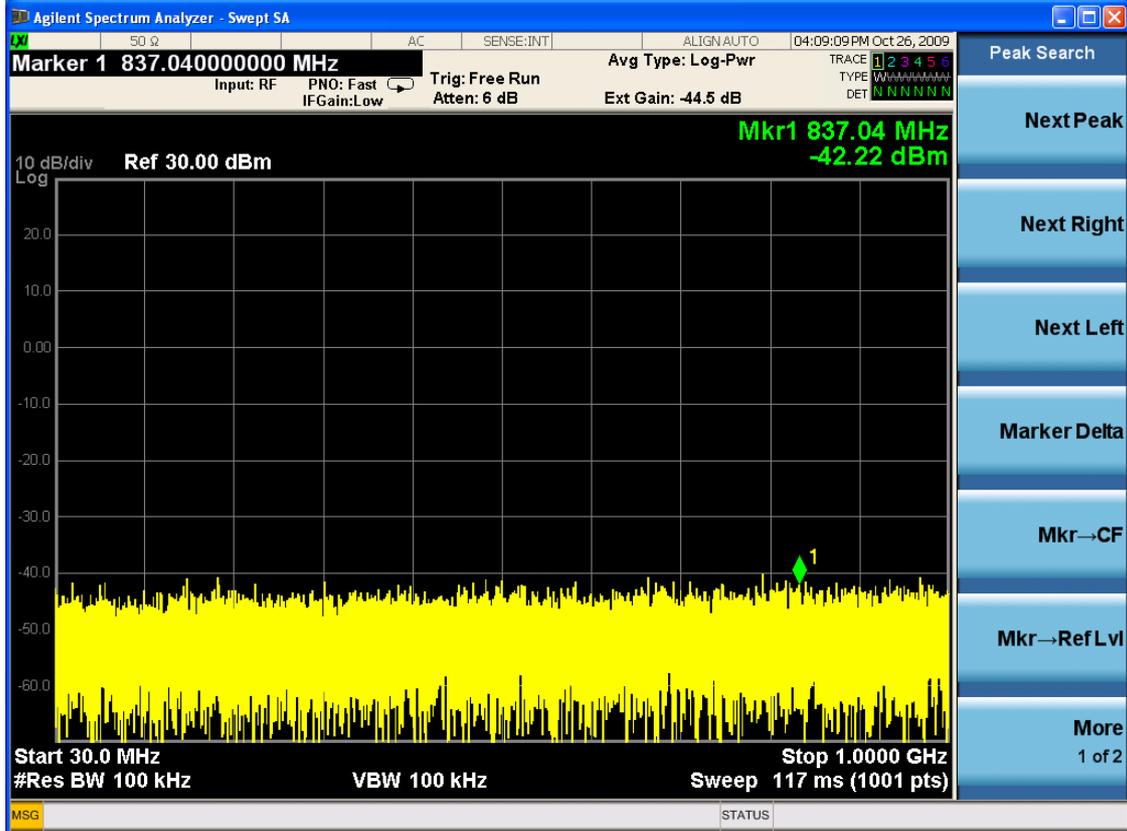
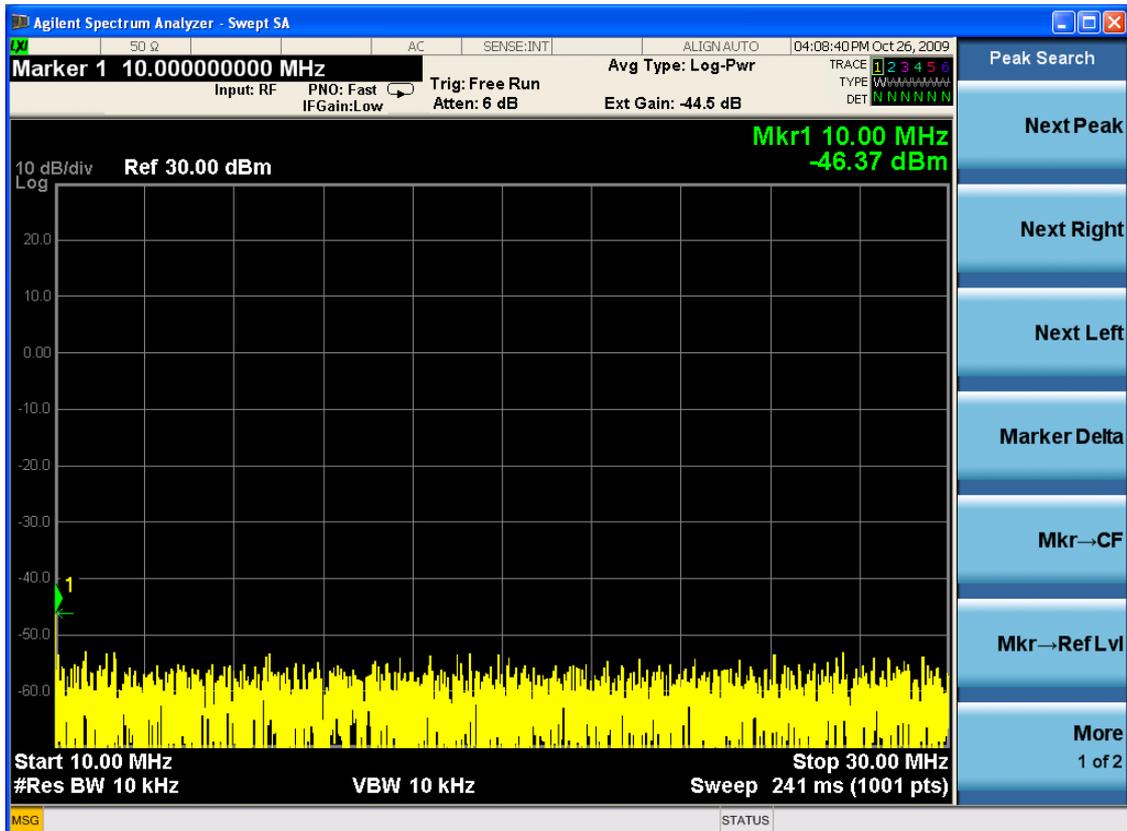
Test Data:

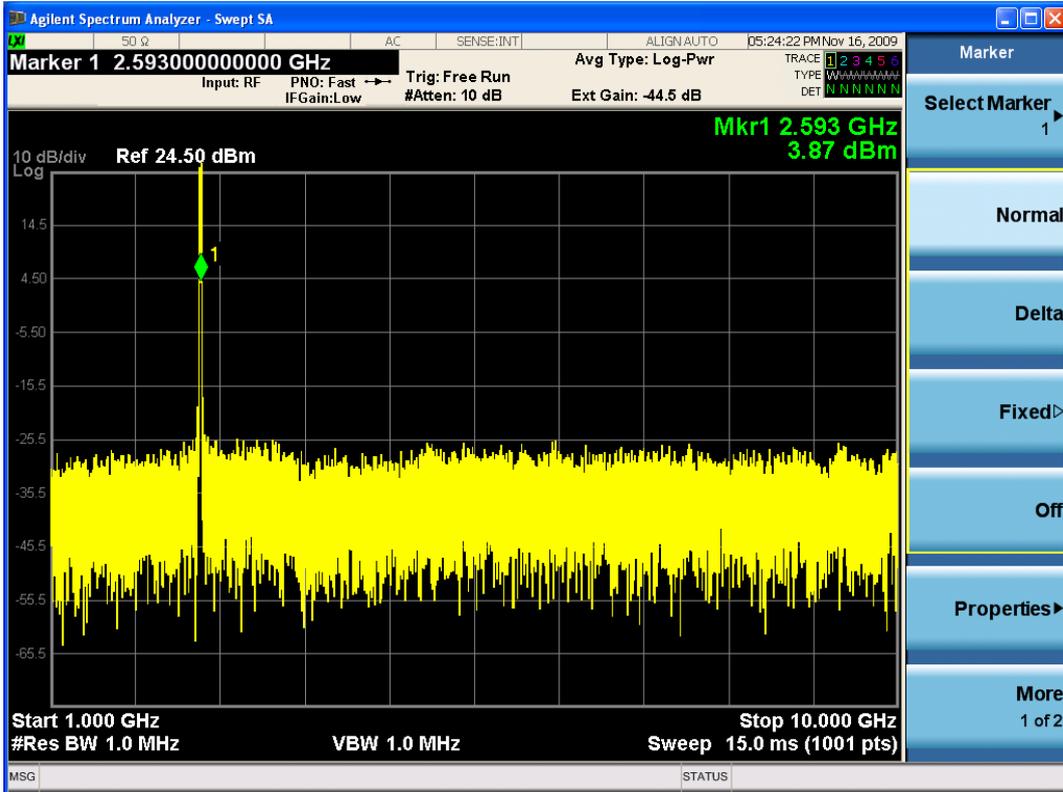
Antenna 1:
Occupied bandwidth is 10MHz.

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-20	-13
	150KHz ~30MHz	2593	10KHz	-20	-13
	30MHz ~1GHz	2593	100KHz	-40.50	-13
	1GHz ~26.5GHz	2593	1MHz	-16.88	-13
Two carriers	9KHz~150KHz	2593	1KHz	-35.52	-13
	150KHz ~30MHz	2593	10KHz	-45.57	-13
	30MHz ~1GHz	2593	100KHz	-31.82	-13
	1GHz ~26.5GHz	2593	1MHz	-20.72	-13

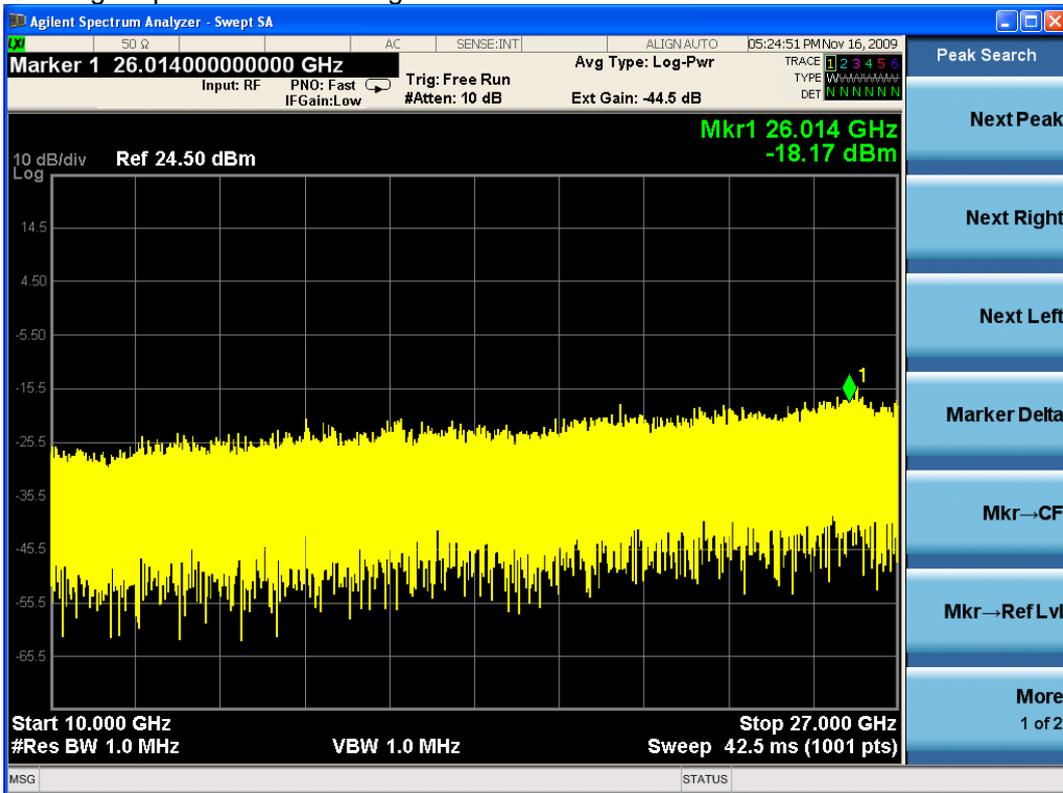
2593 MHz(One carrier)



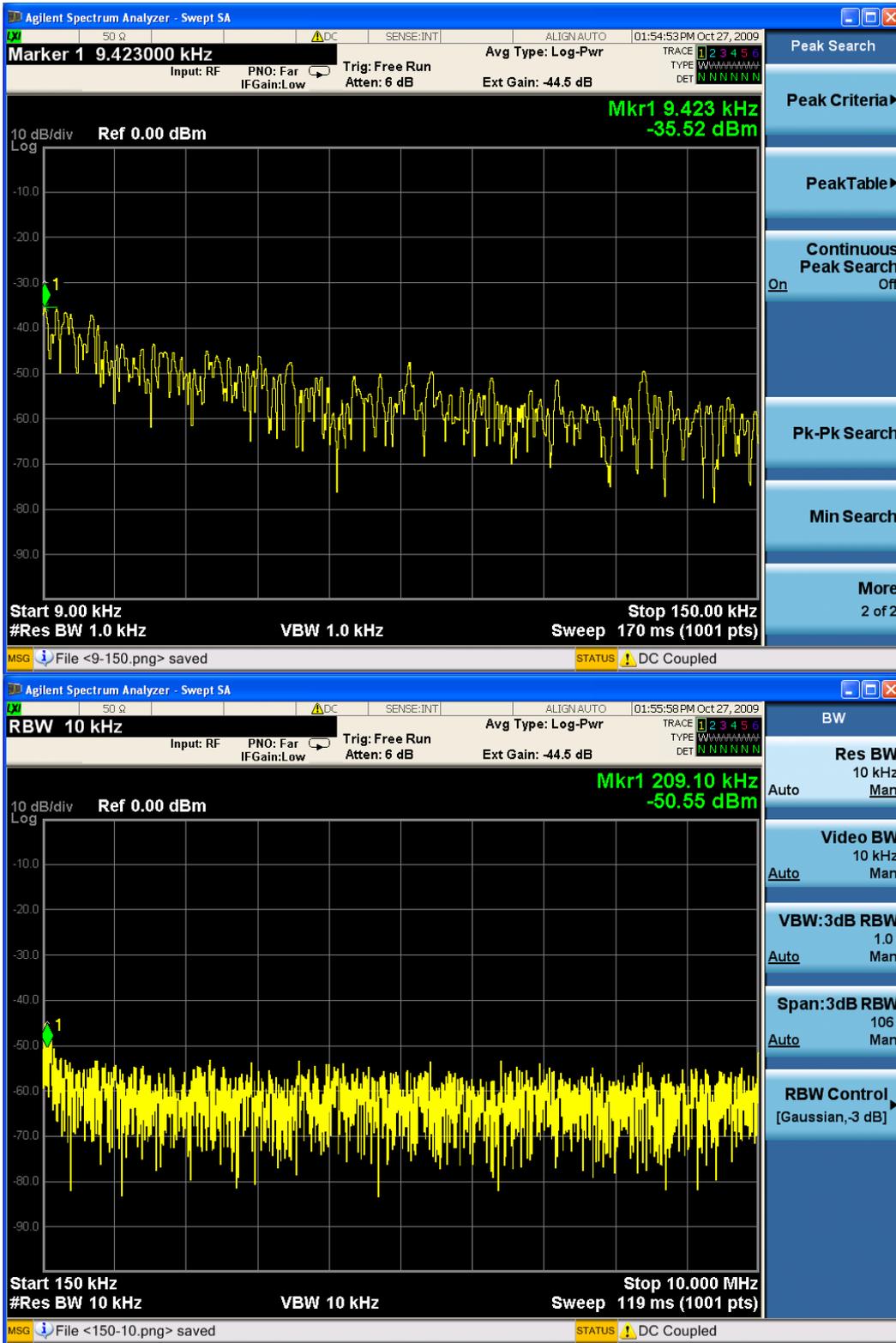


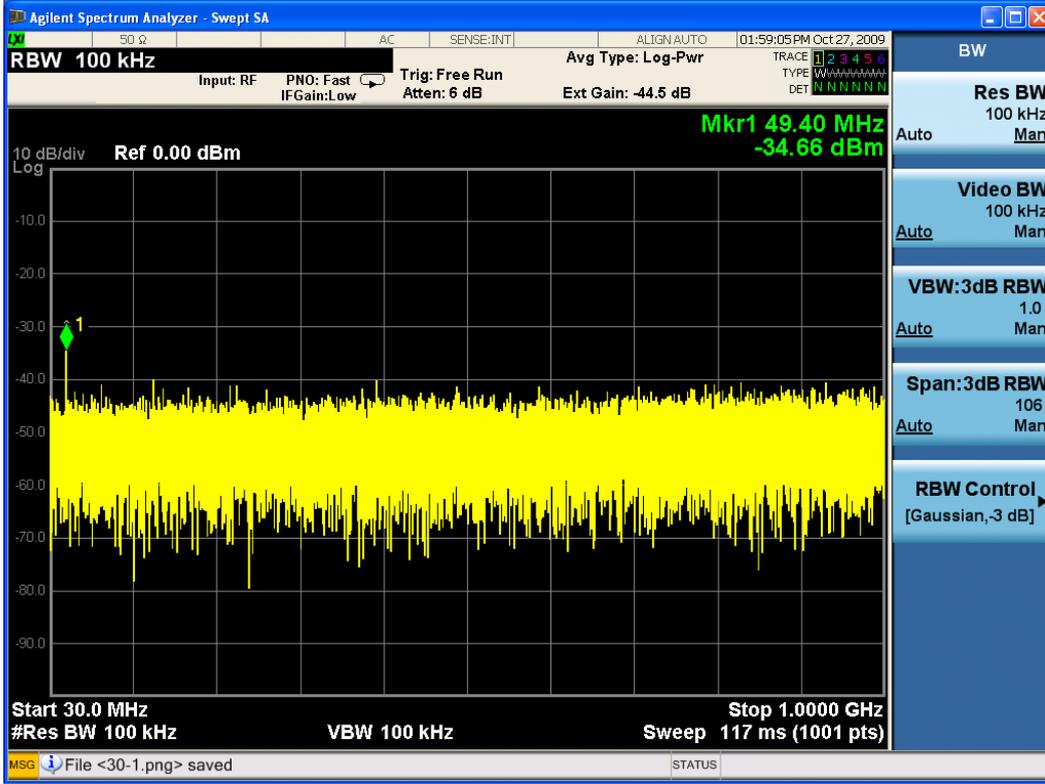
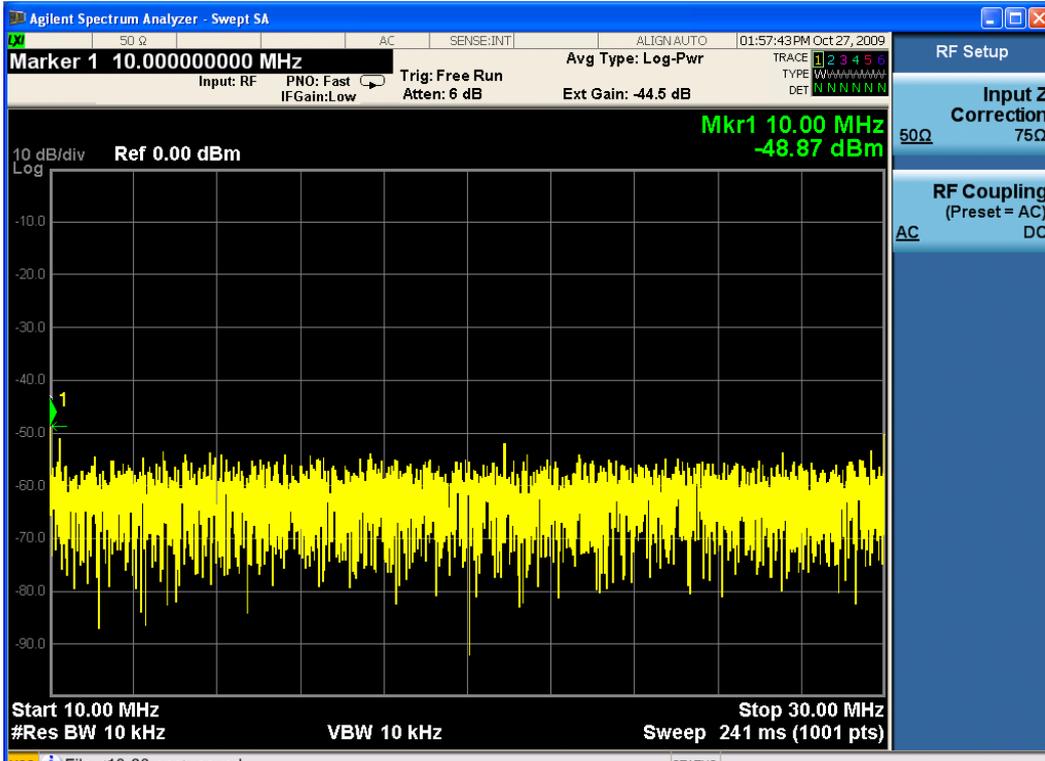


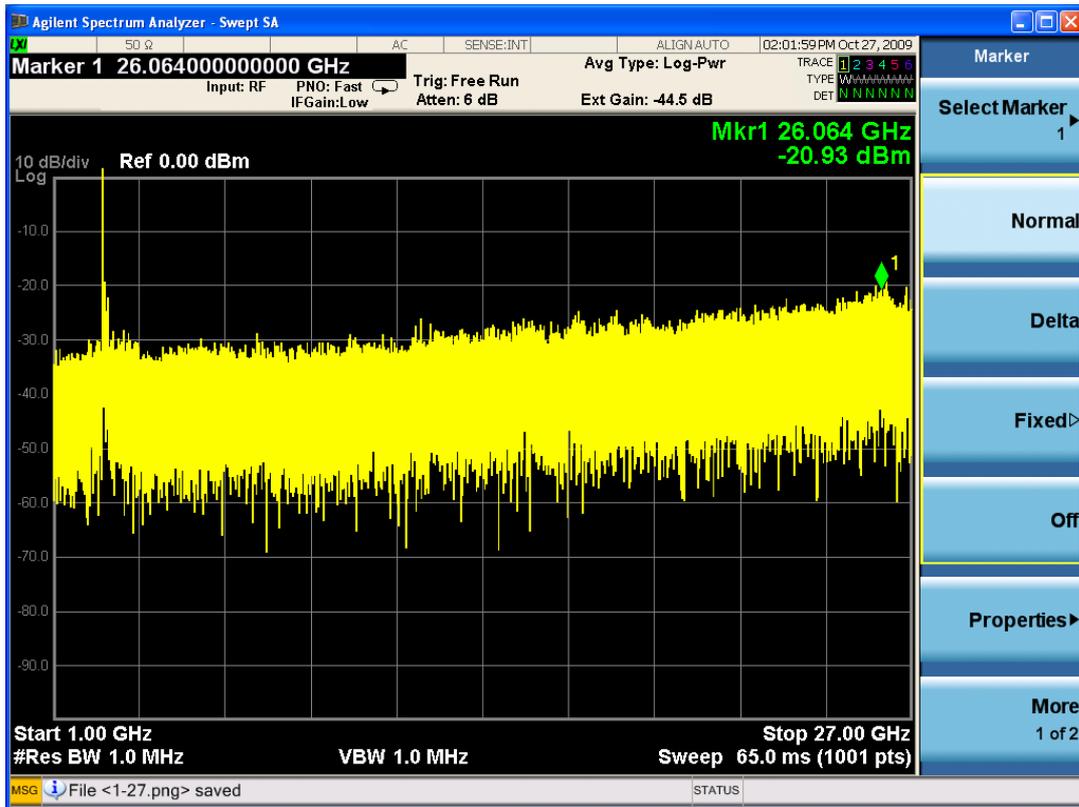
*The higher points are in working block



2593MHz(two carriers)





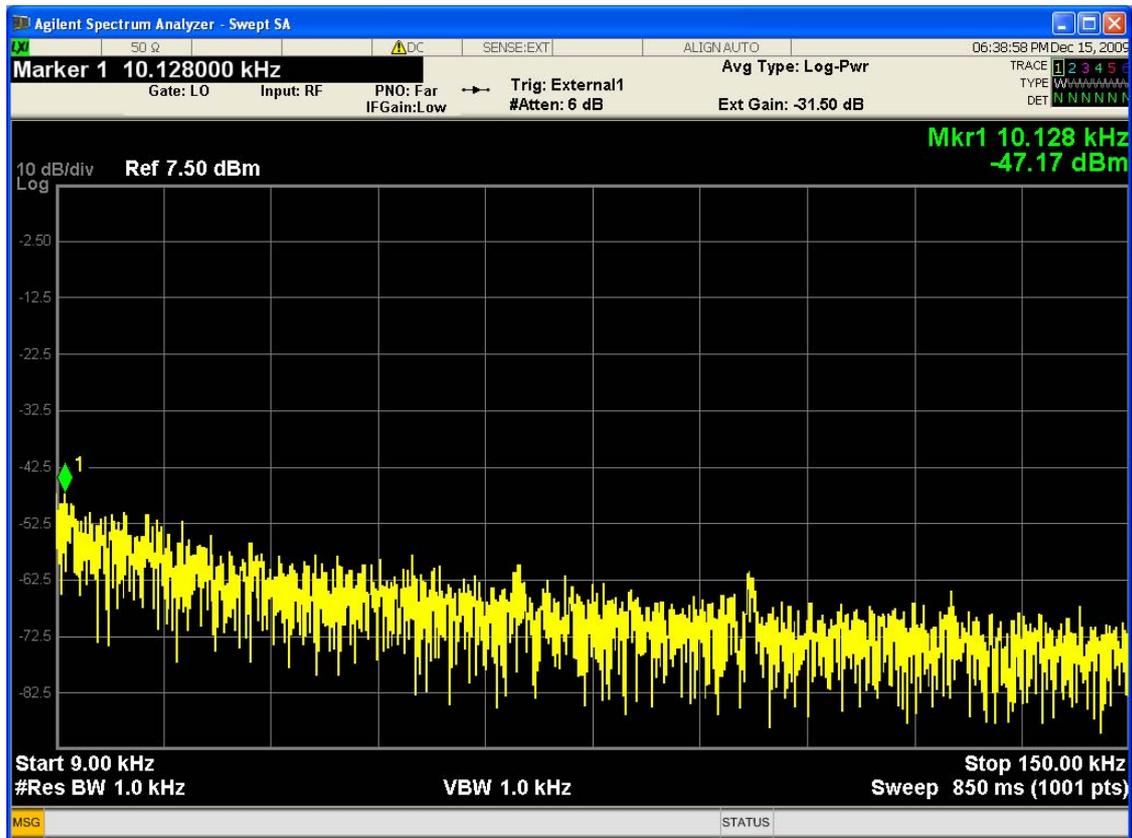


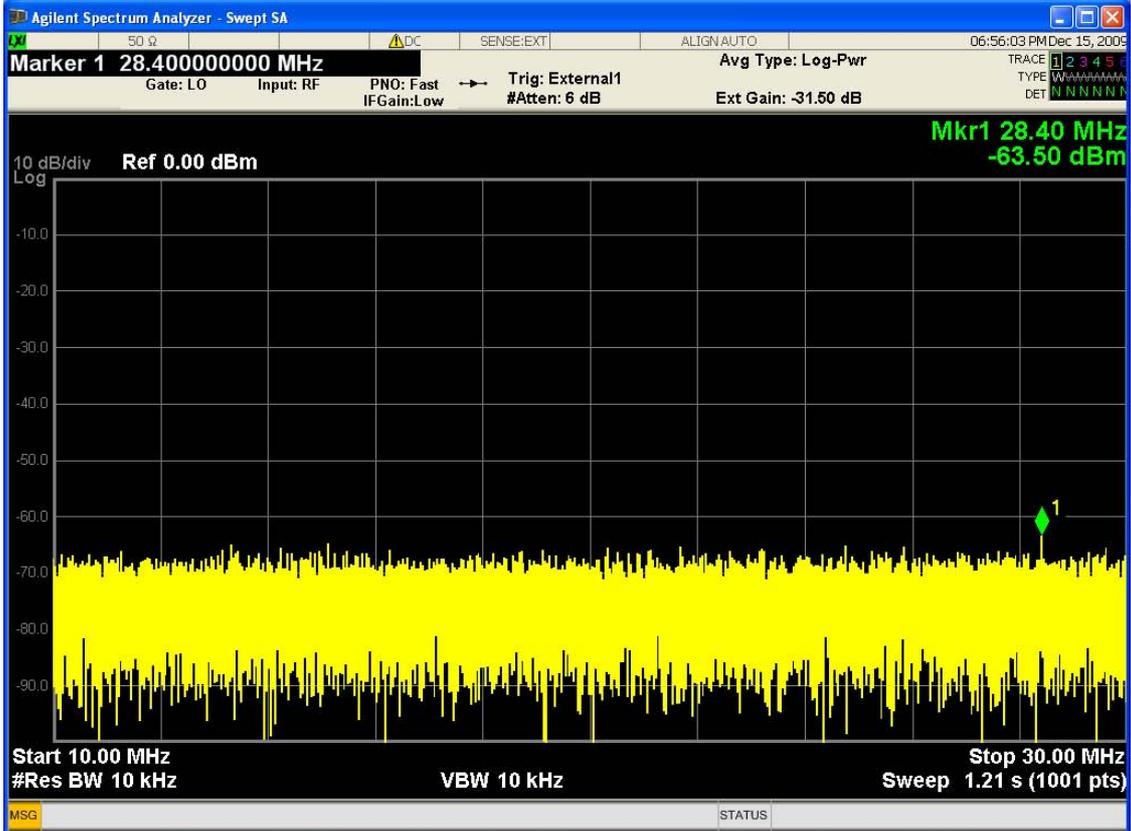
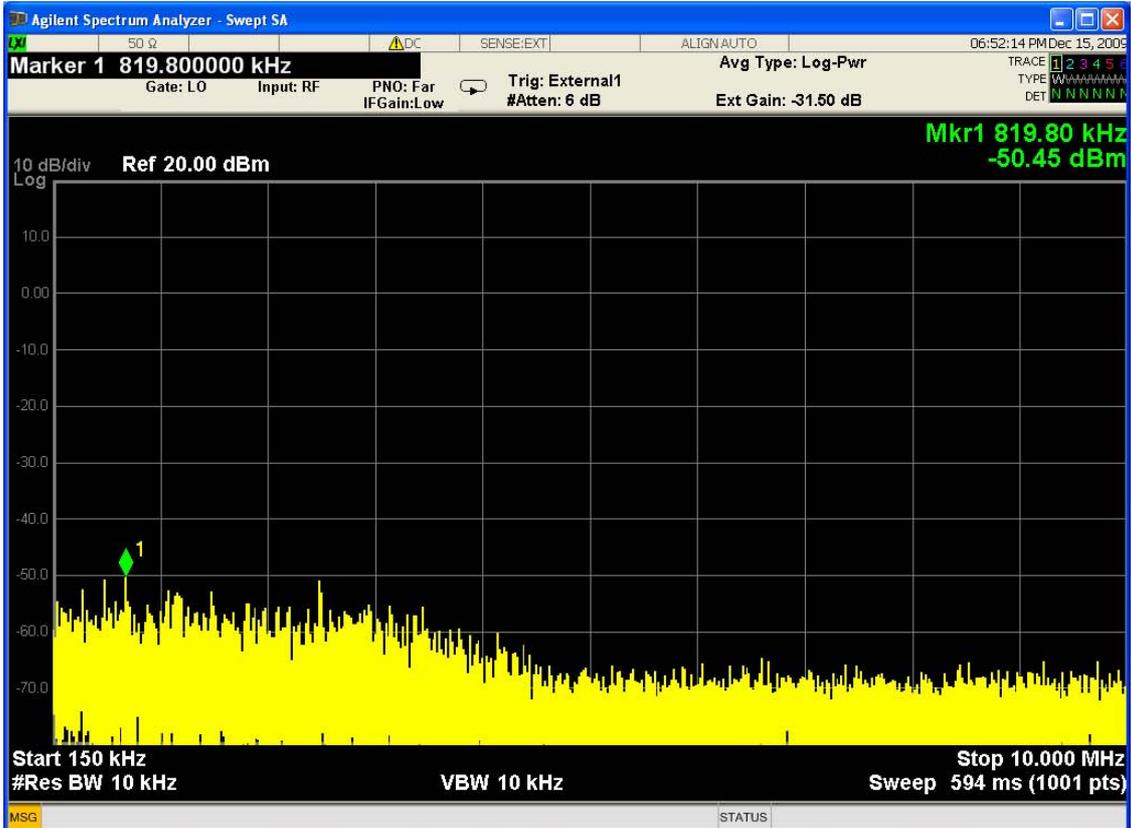
*the higher points are in the working block

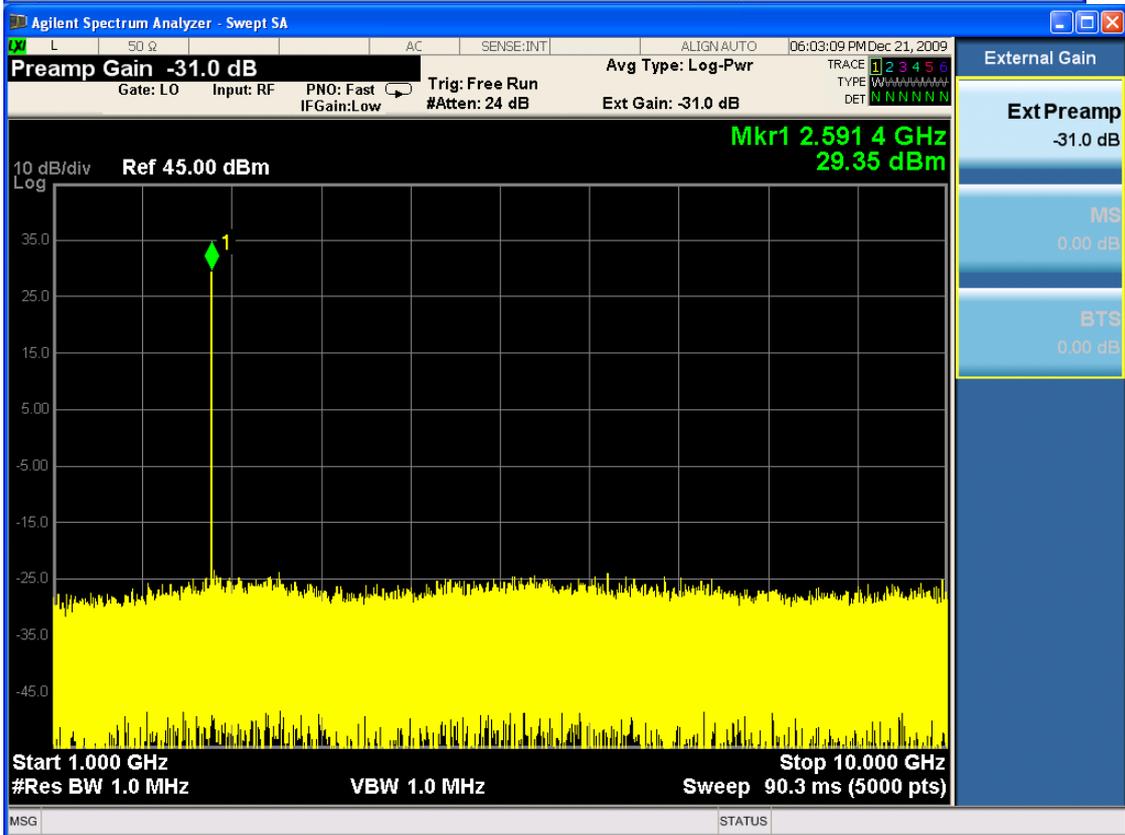
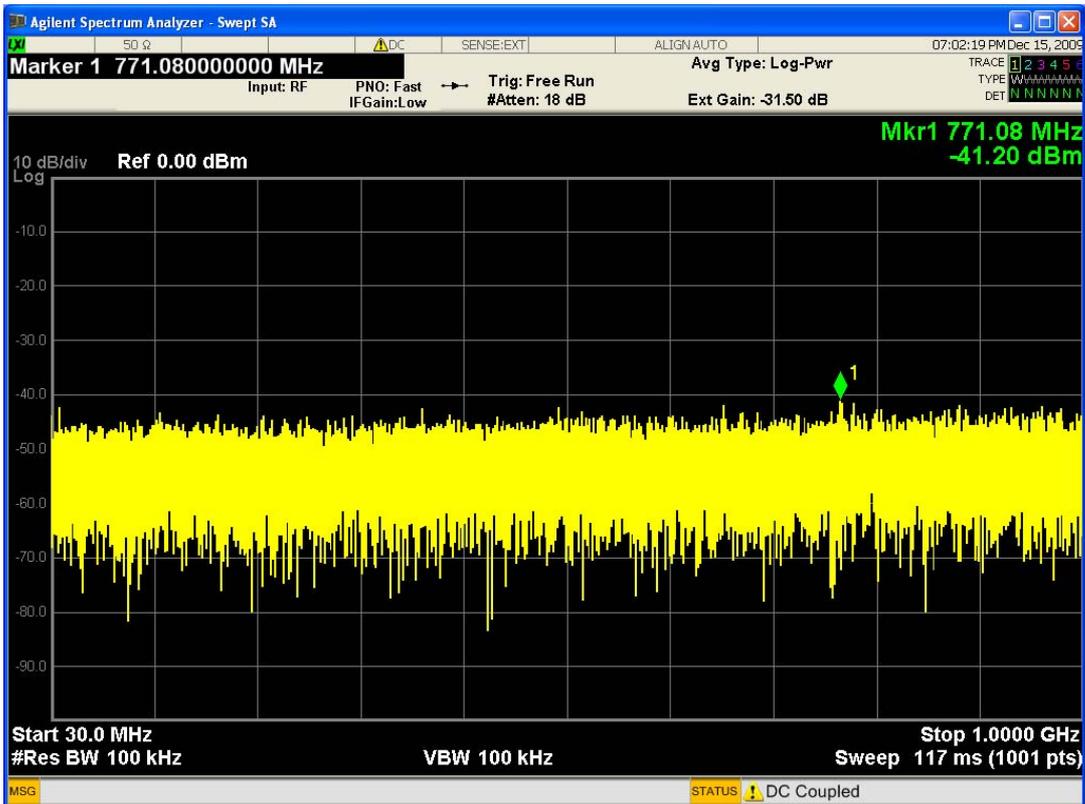
Antenna 1:
Occupied bandwidth is 5 MHz.

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-47.17	-13
	150KHz ~30MHz	2593	10KHz	-53.45	-13
	30MHz ~1GHz	2593	100KHz	-41.20	-13
	1GHz ~26.5GHz	2593	1MHz	-25.00	-13
Two carriers	9KHz~150KHz	2593	1KHz	-46.97	-13
	150KHz ~10MHz	2593	10KHz	-51.96	-13
	10MHz ~30MHz	2593	10KHz	-54.66	-13
	30MHz ~1GHz	2593	100KHz	-47.68	-13
	1GHz ~26.5GHz	2593	1MHz	-25.00	-13

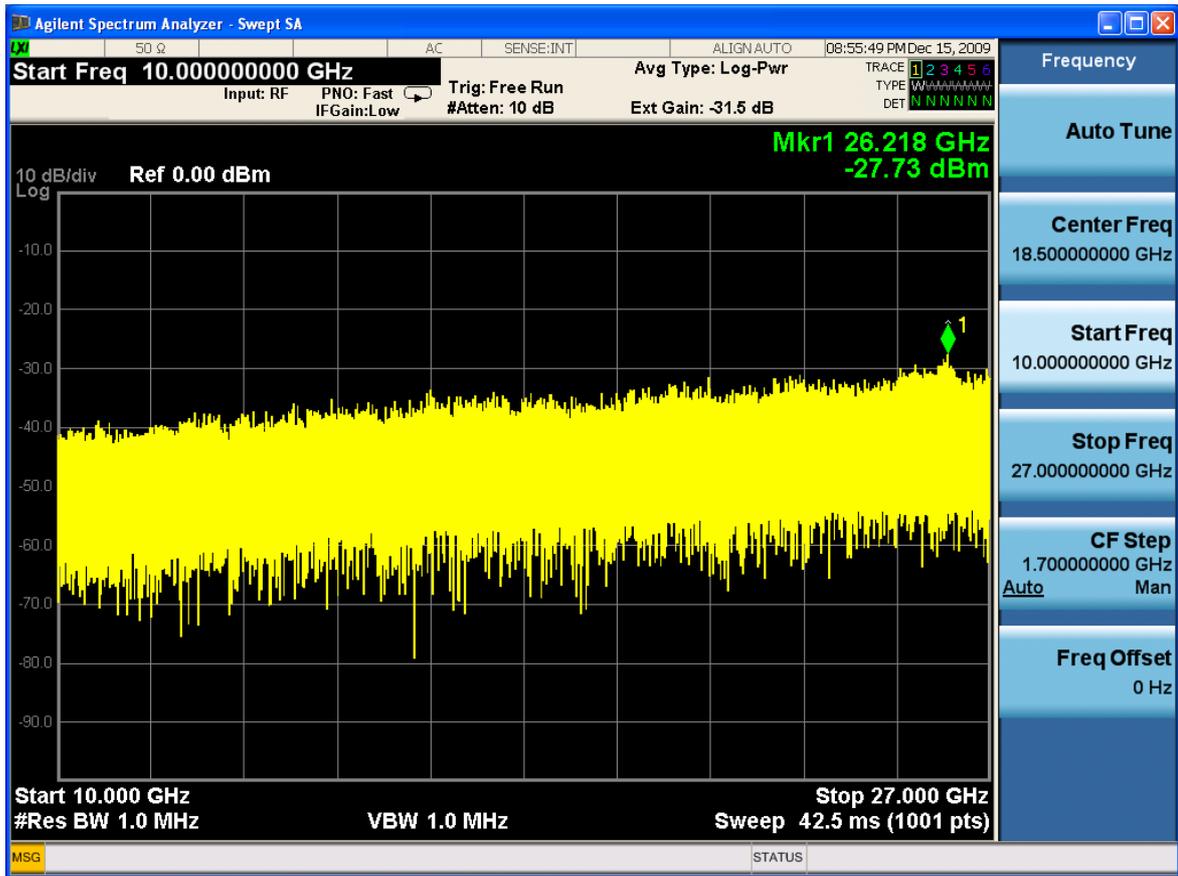
2593MHz (one carrier)



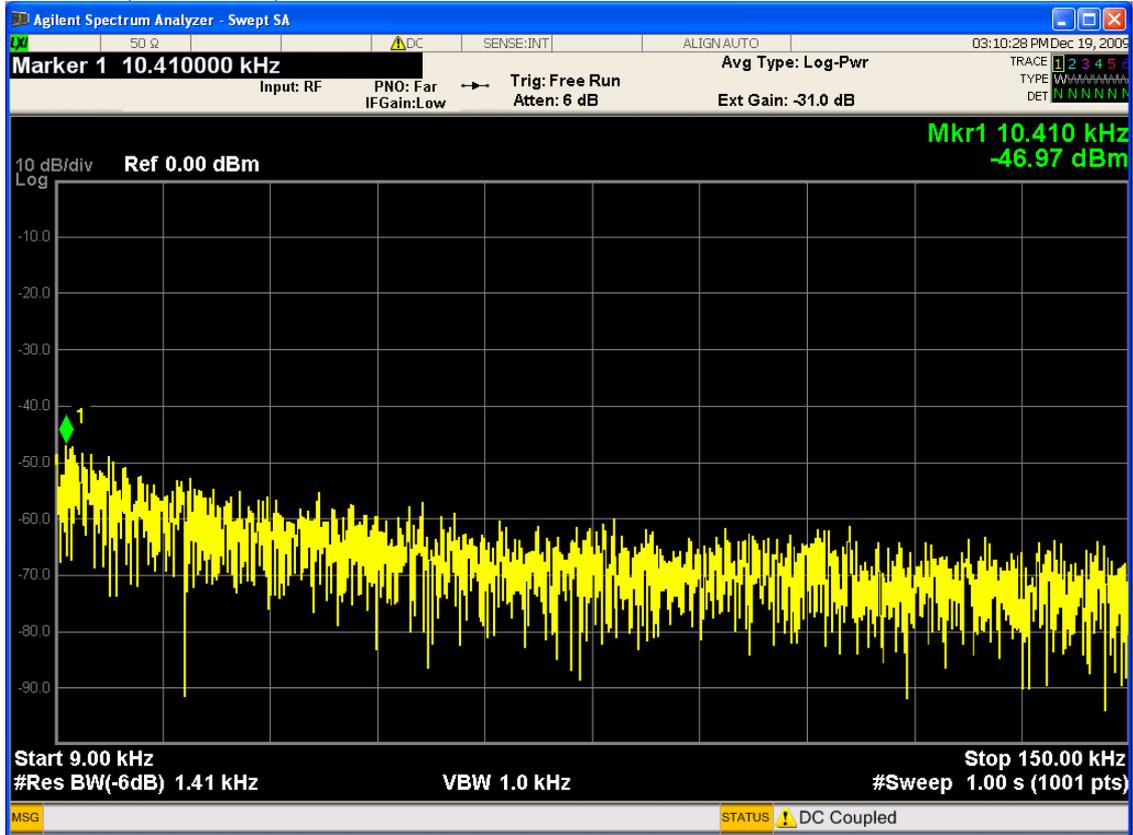


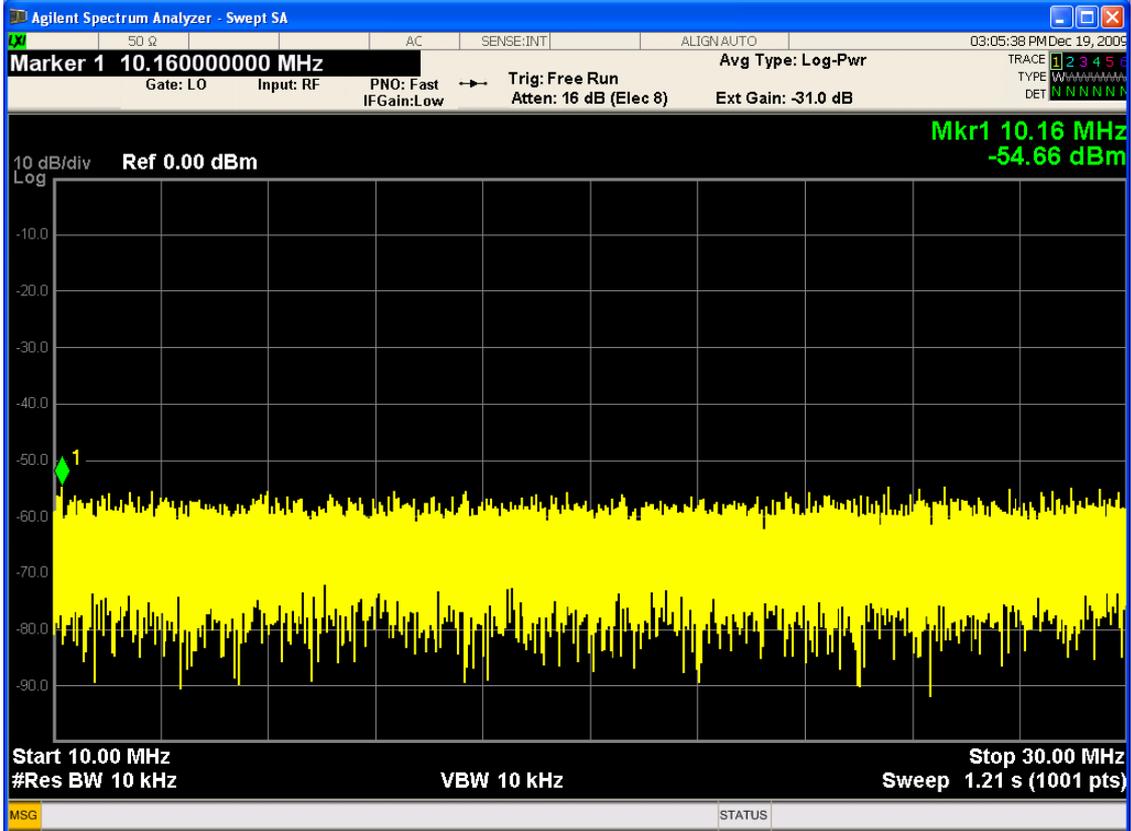
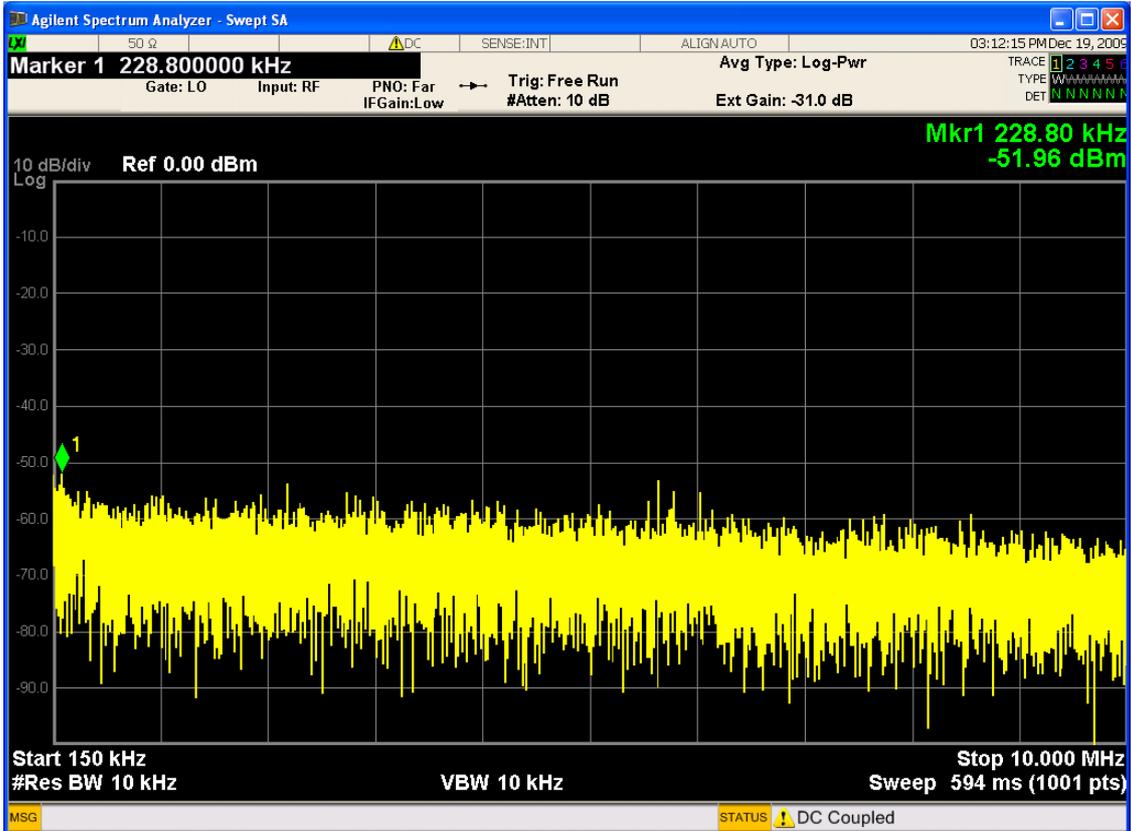


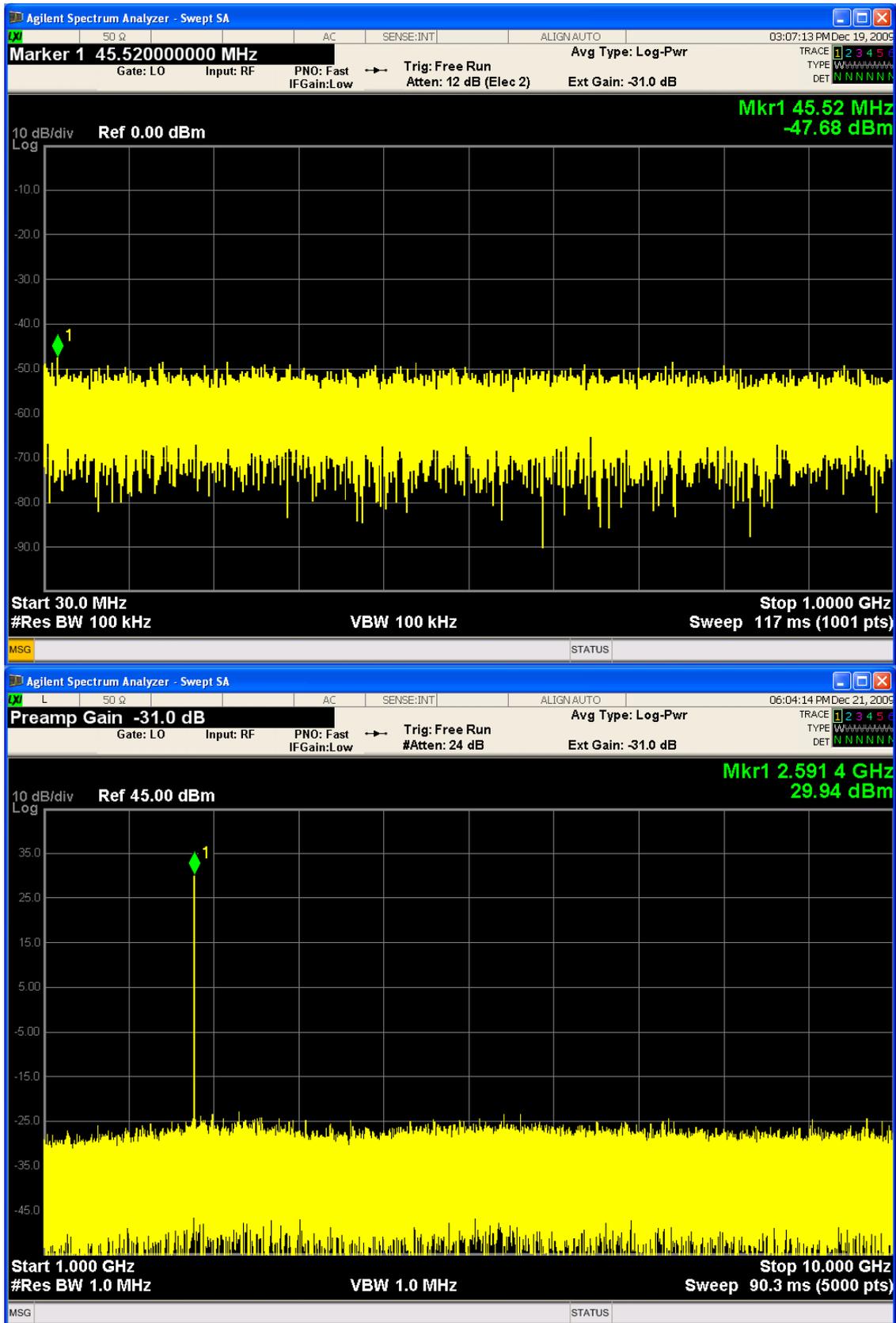
* the highest peak value is in working block

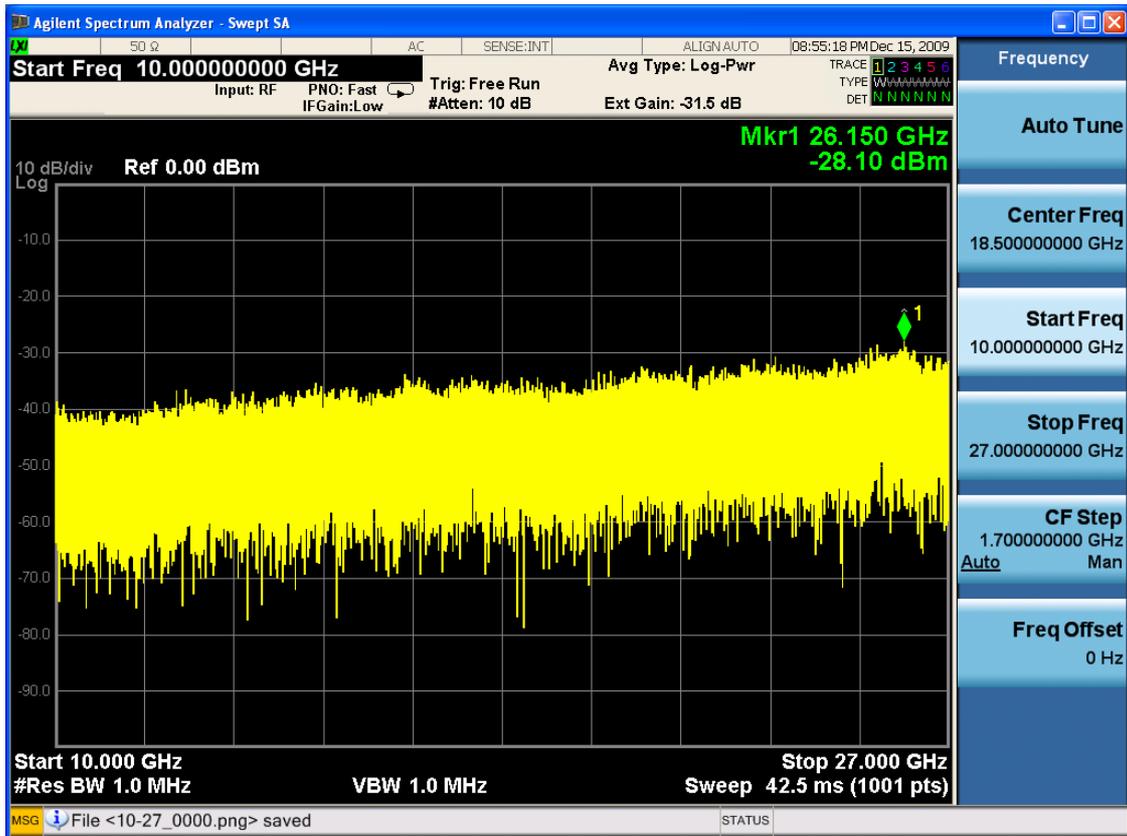


2593MHz(two carriers)





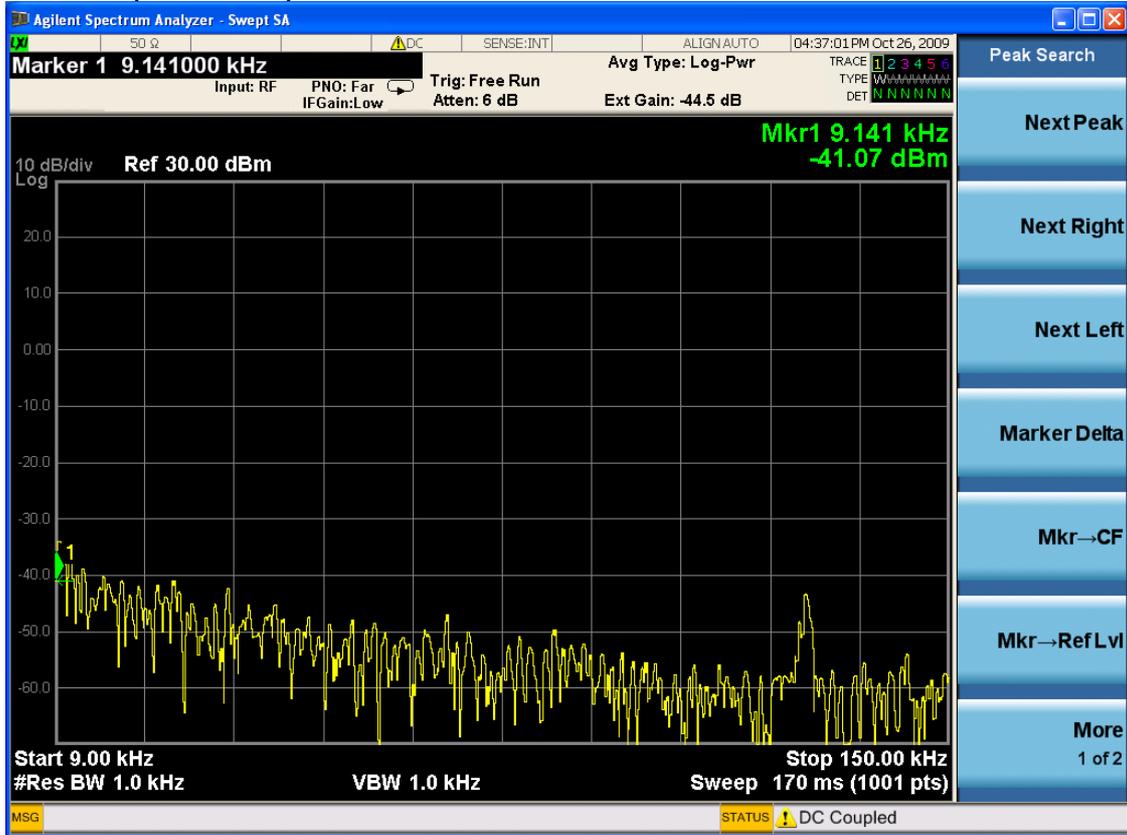


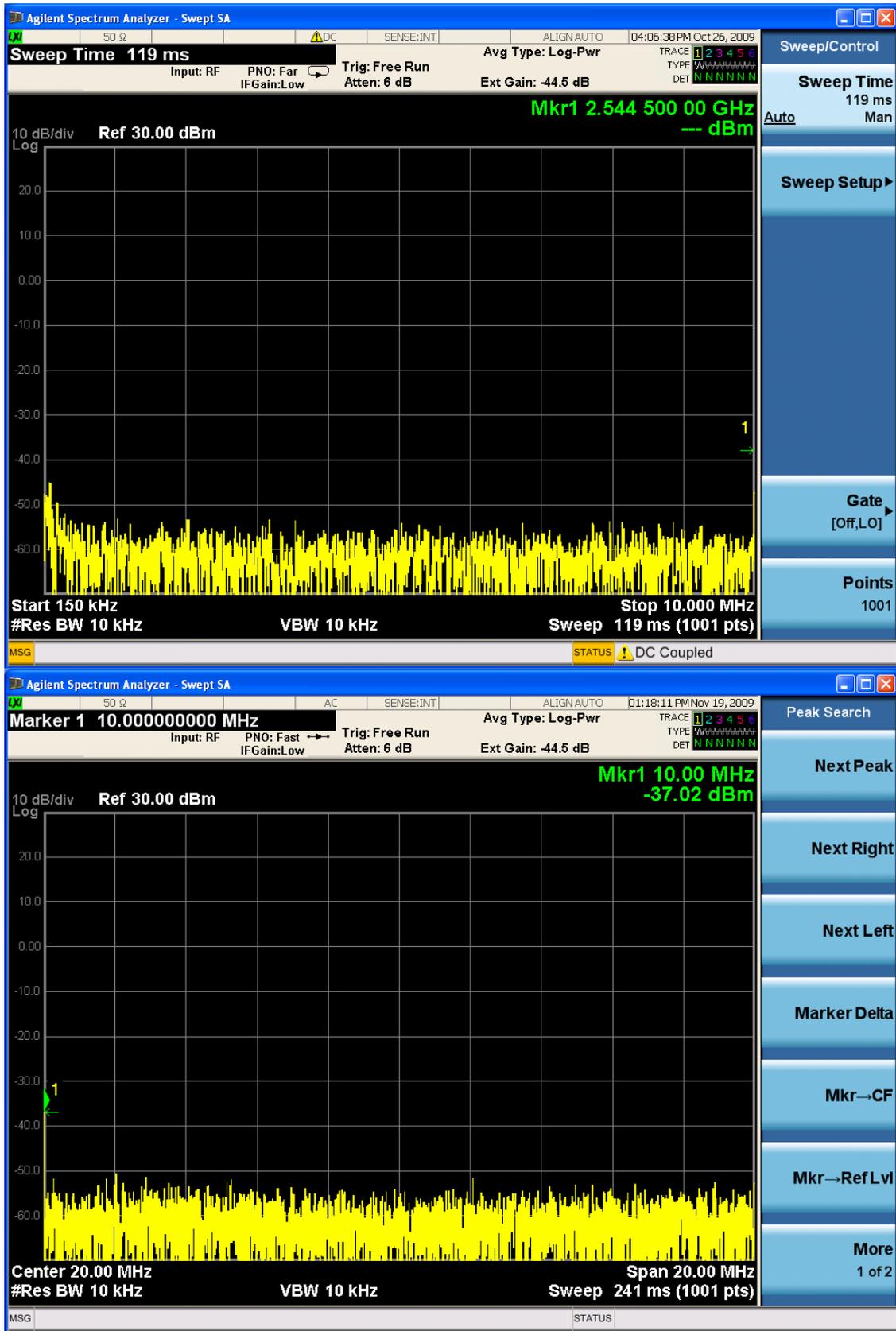


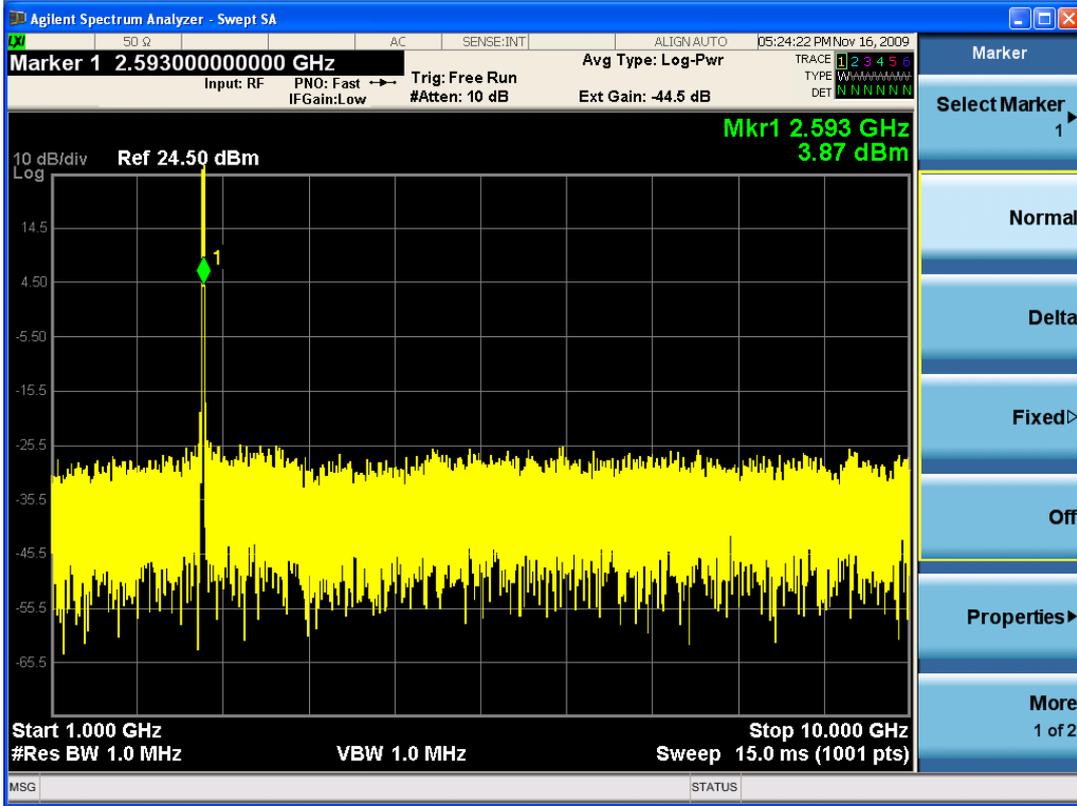
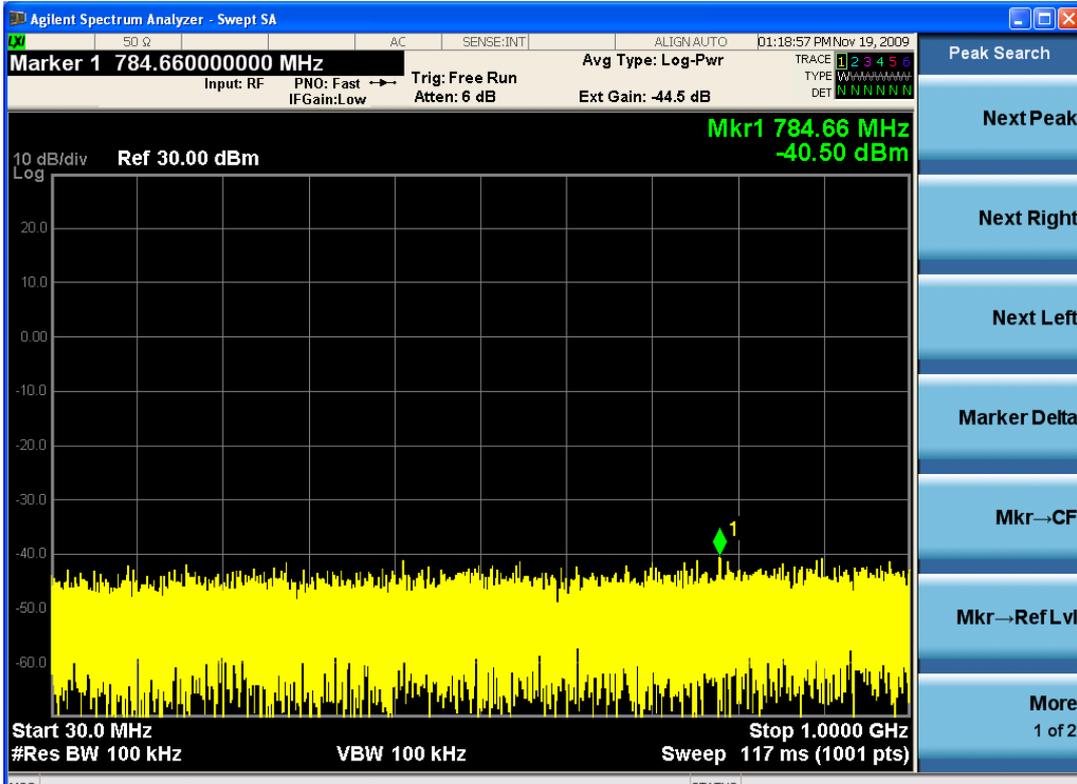
Antenna 2:
Occupied bandwidth is 10MHz.

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-41.07	-13
	150KHz ~10MHz	2593	10KHz	-40.00	-13
	10MHz ~30MHz	2593	10KHz	-37.02	-13
	30MHz ~1GHz	2593	100KHz	-40.50	-13
	1GHz ~26.5GHz	2593	1MHz	-18.17	-13
Two carriers	9KHz~150KHz	2593	1KHz	-35.52	-13
	150KHz ~10MHz	2593	10KHz	-50.55	-13
	10MHz ~30MHz	2593	10KHz	-48.87	-13
	30MHz ~1GHz	2593	100KHz	-34.66	-13
	1GHz ~26.5GHz	2593	1MHz	-14.76	-13

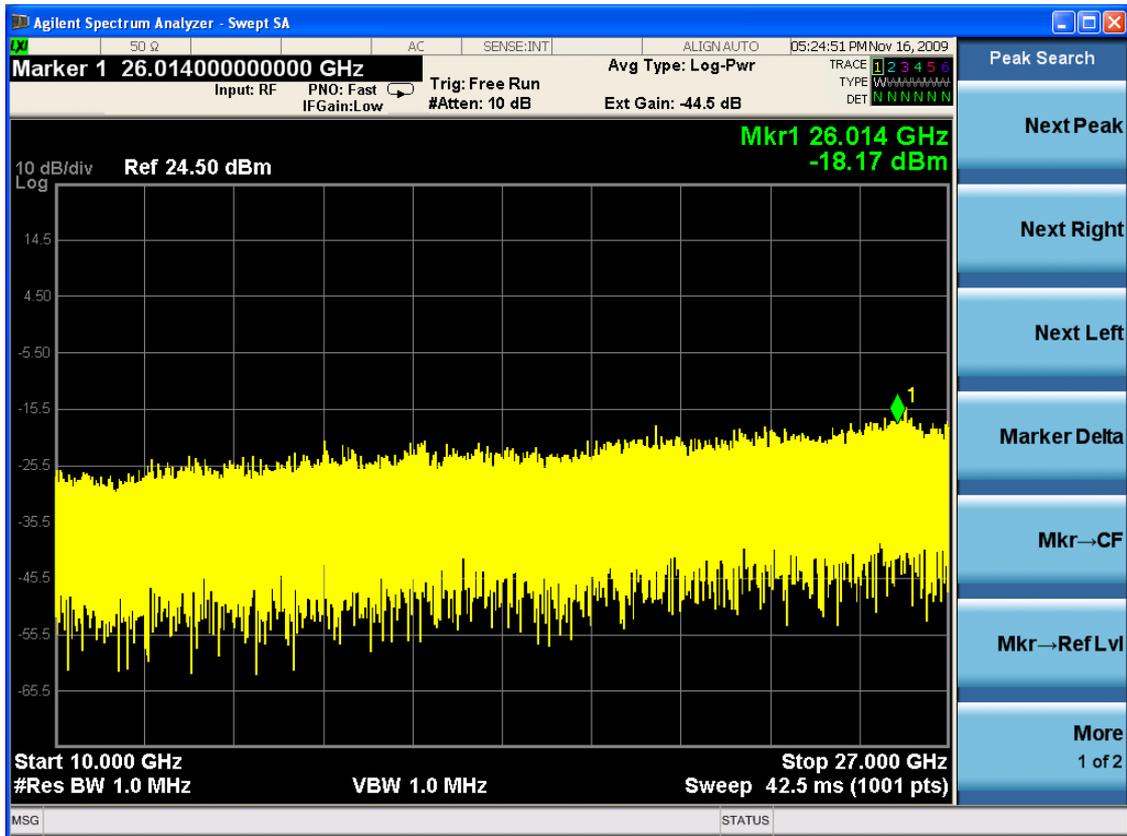
2593 MHz(One carrier)



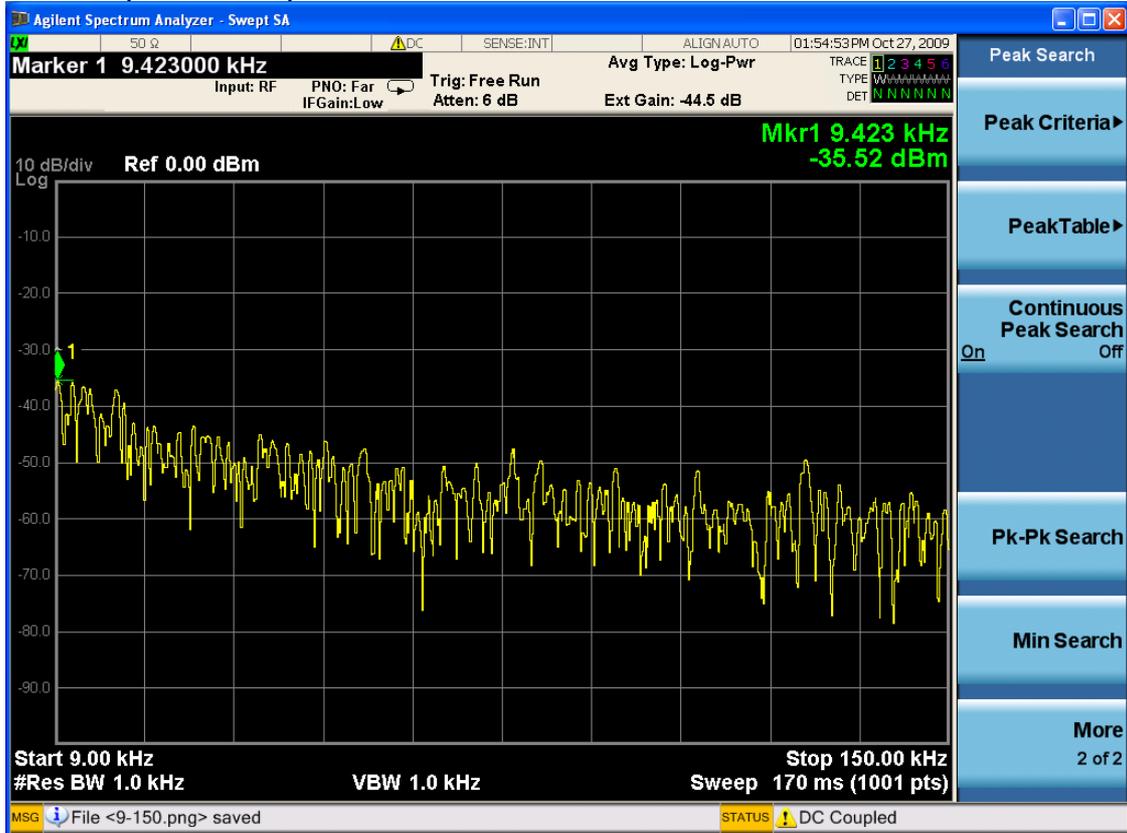


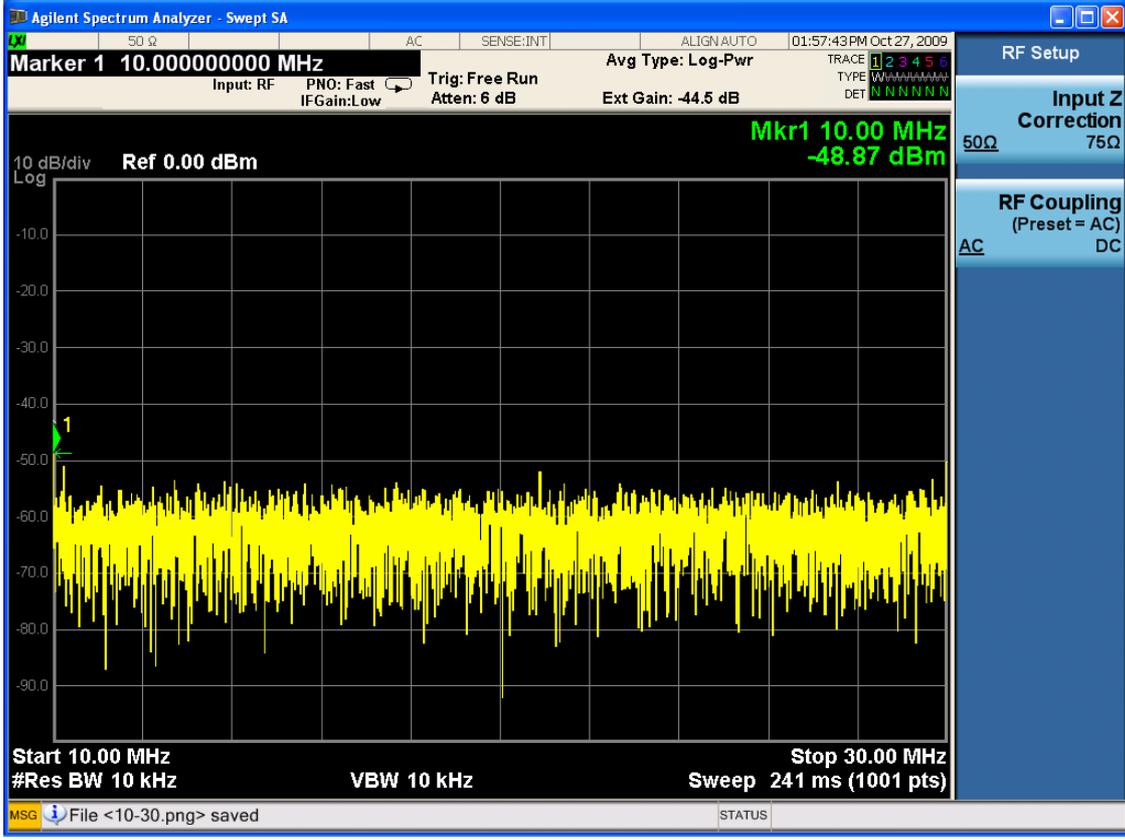
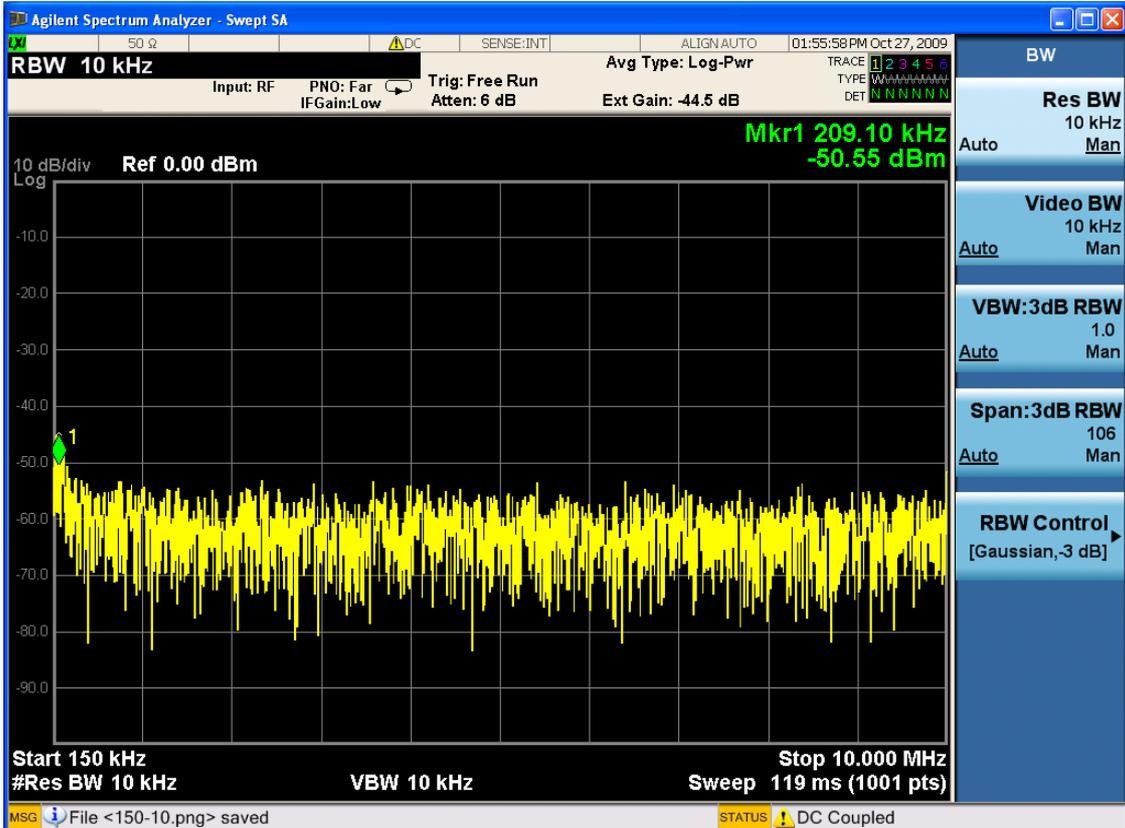


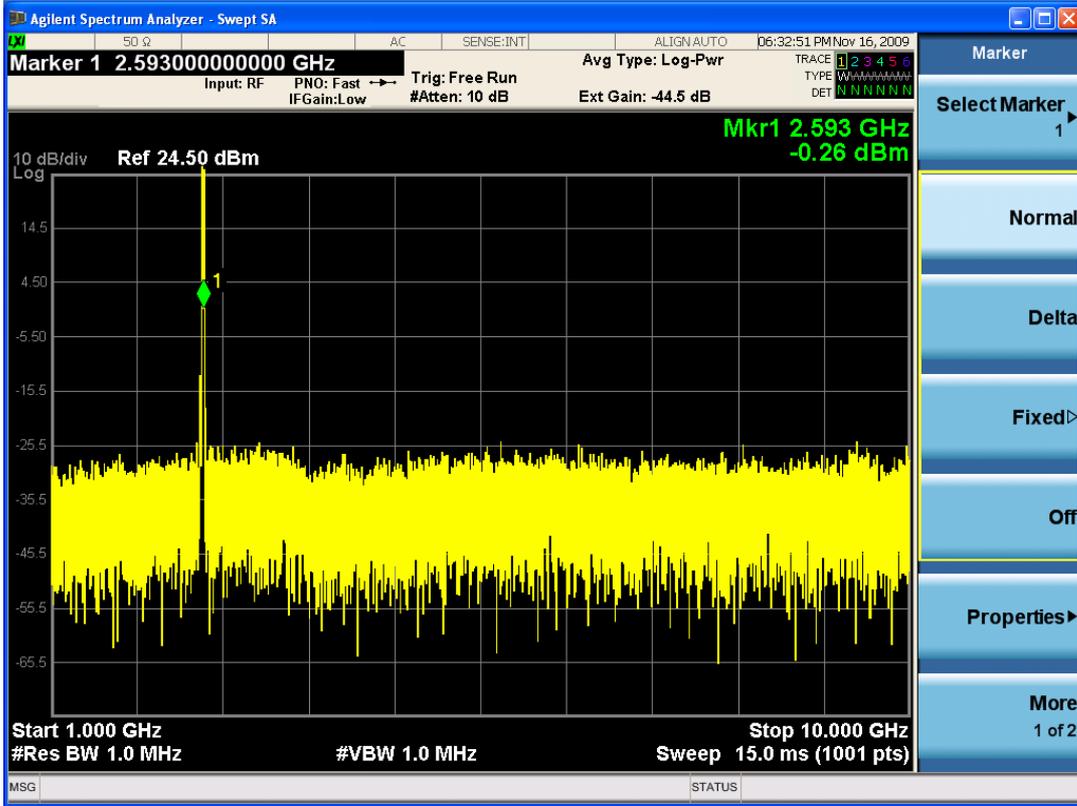
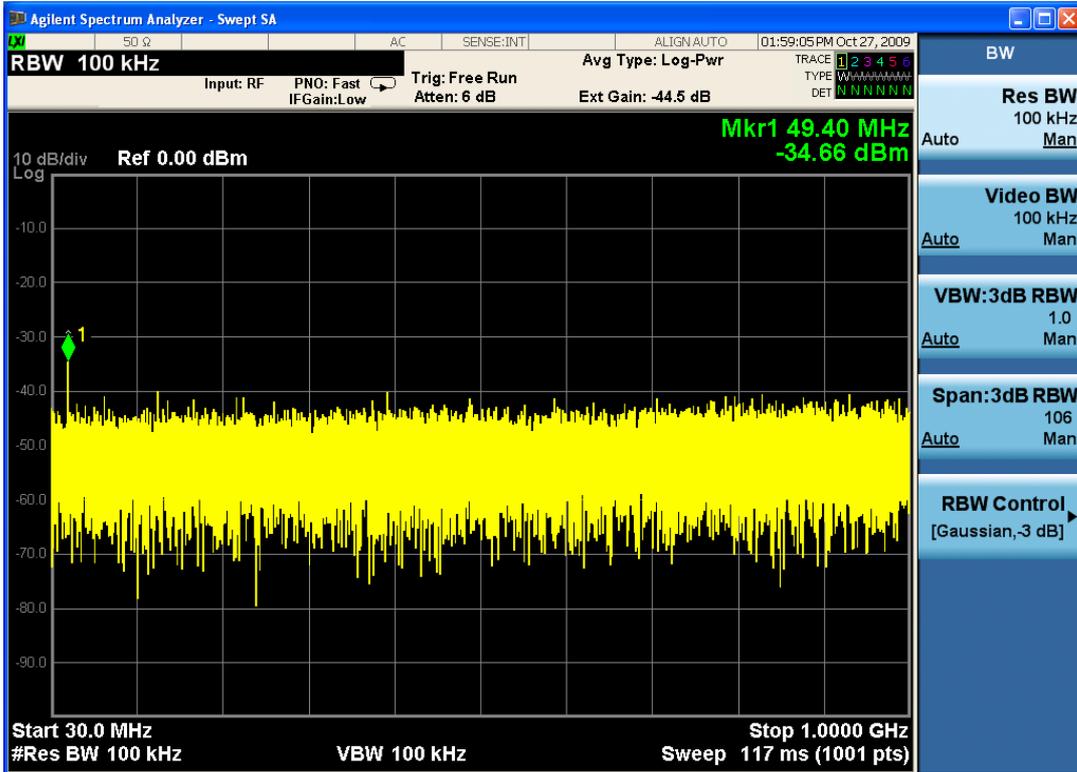
*the highest peak value is in working block



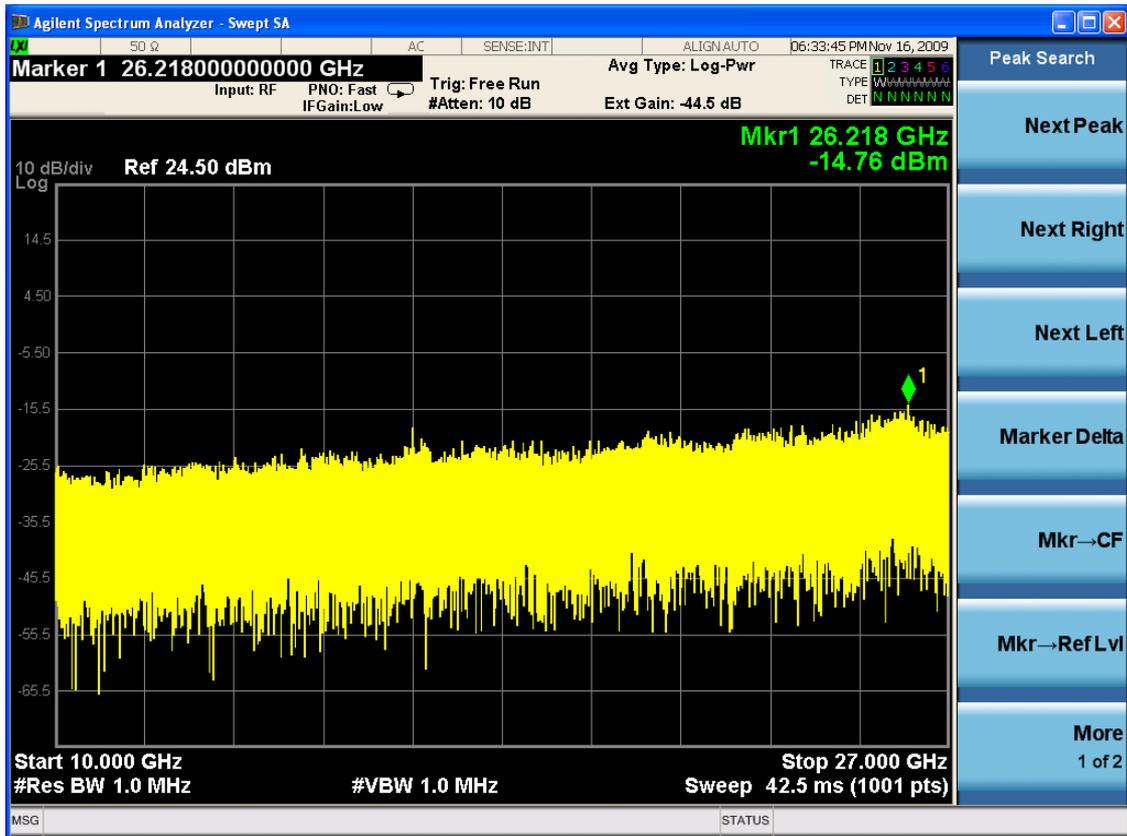
2593MHz(two carriers)







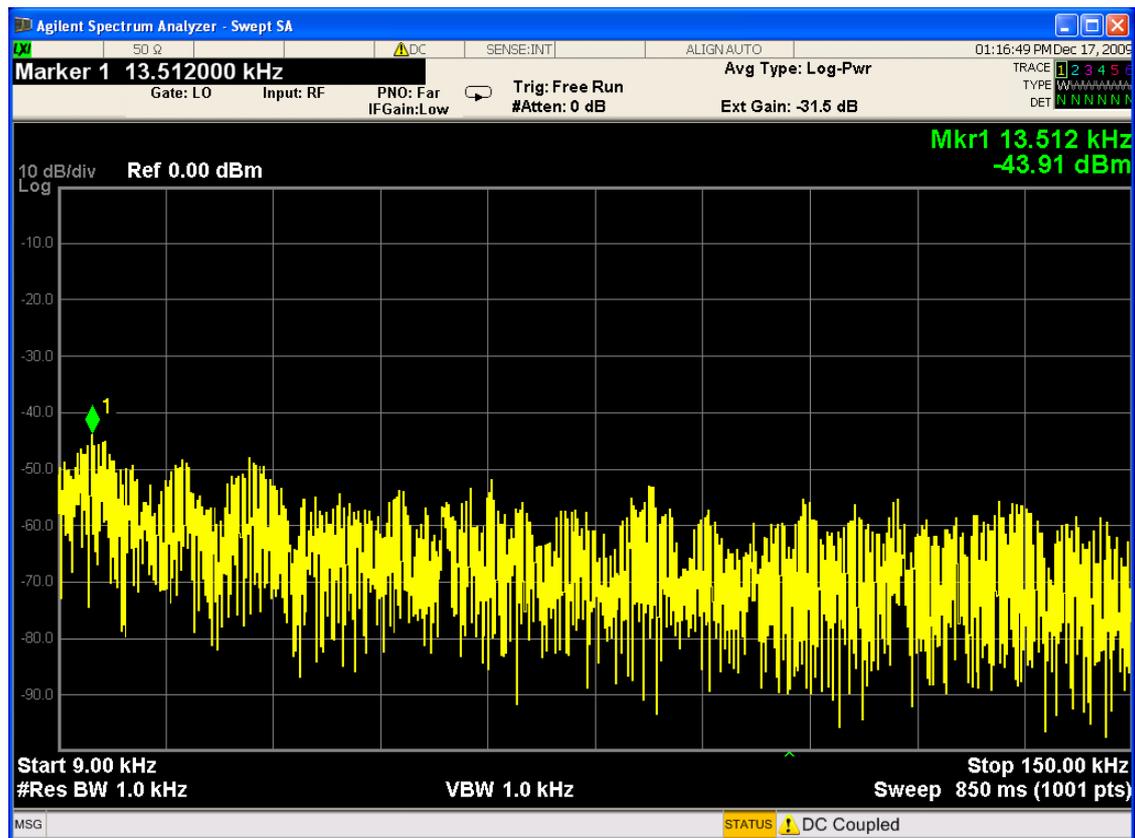
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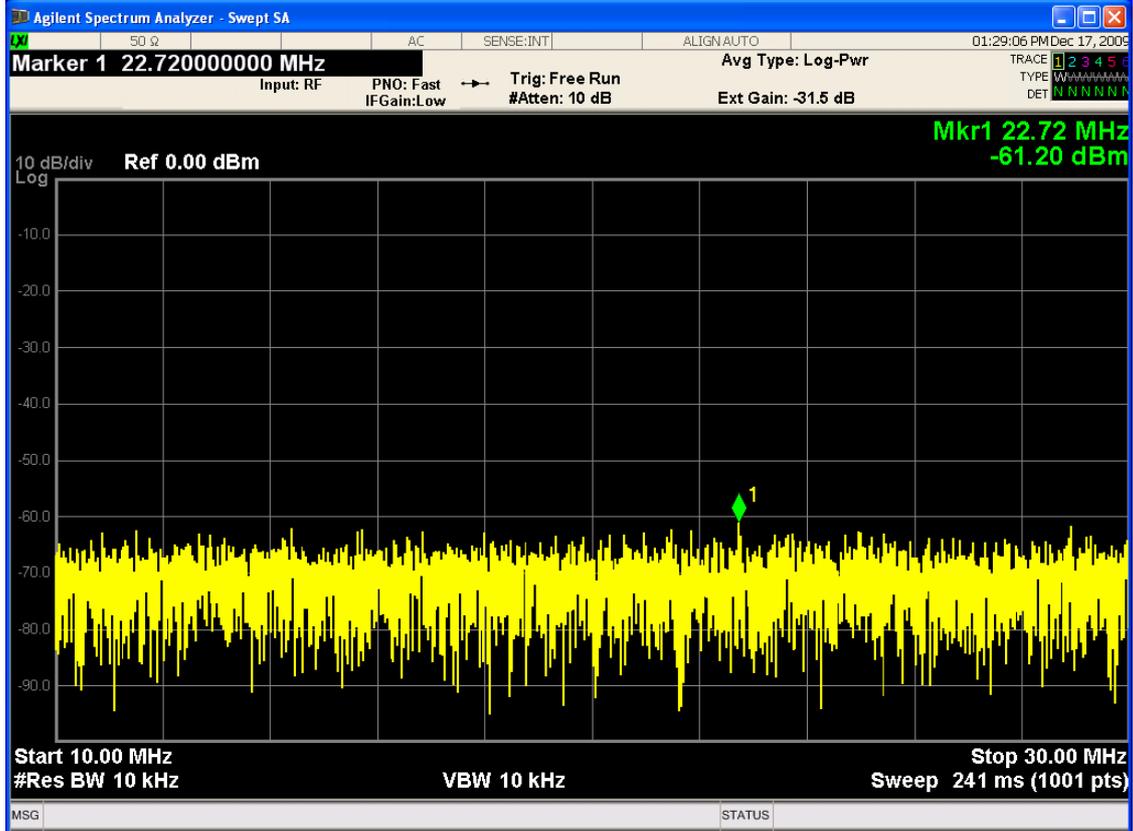
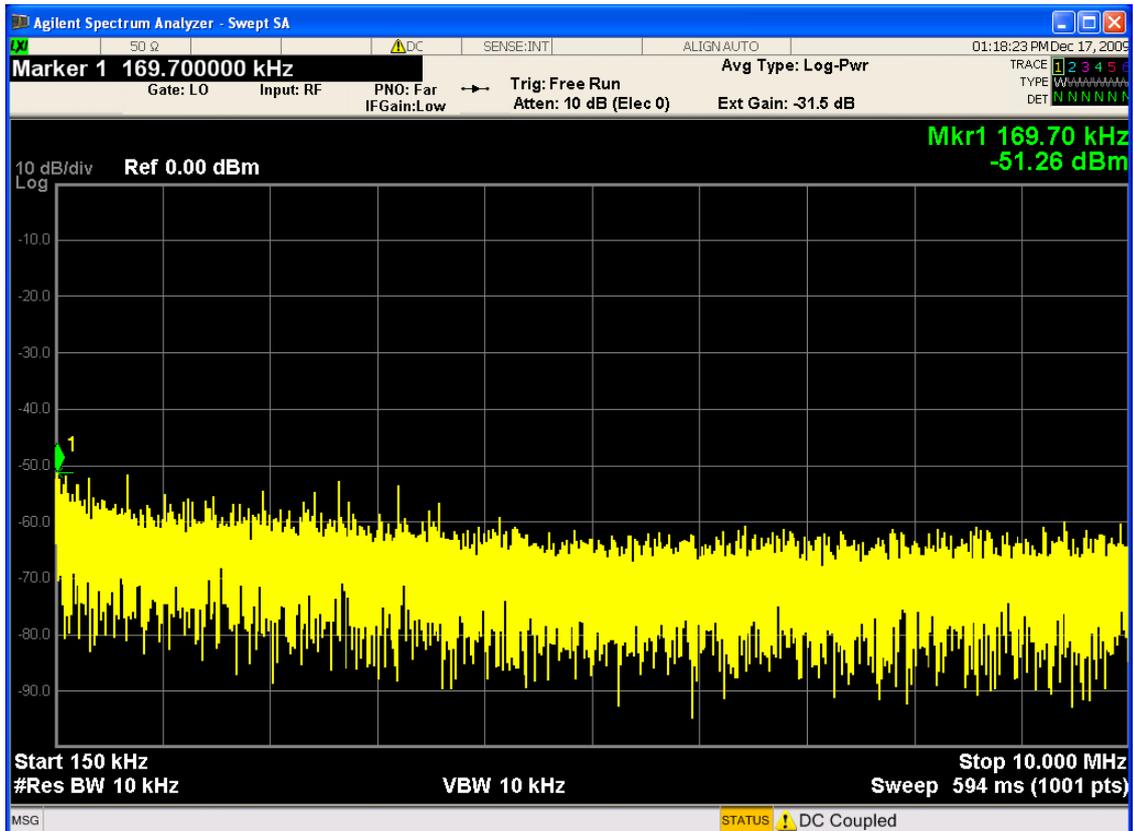


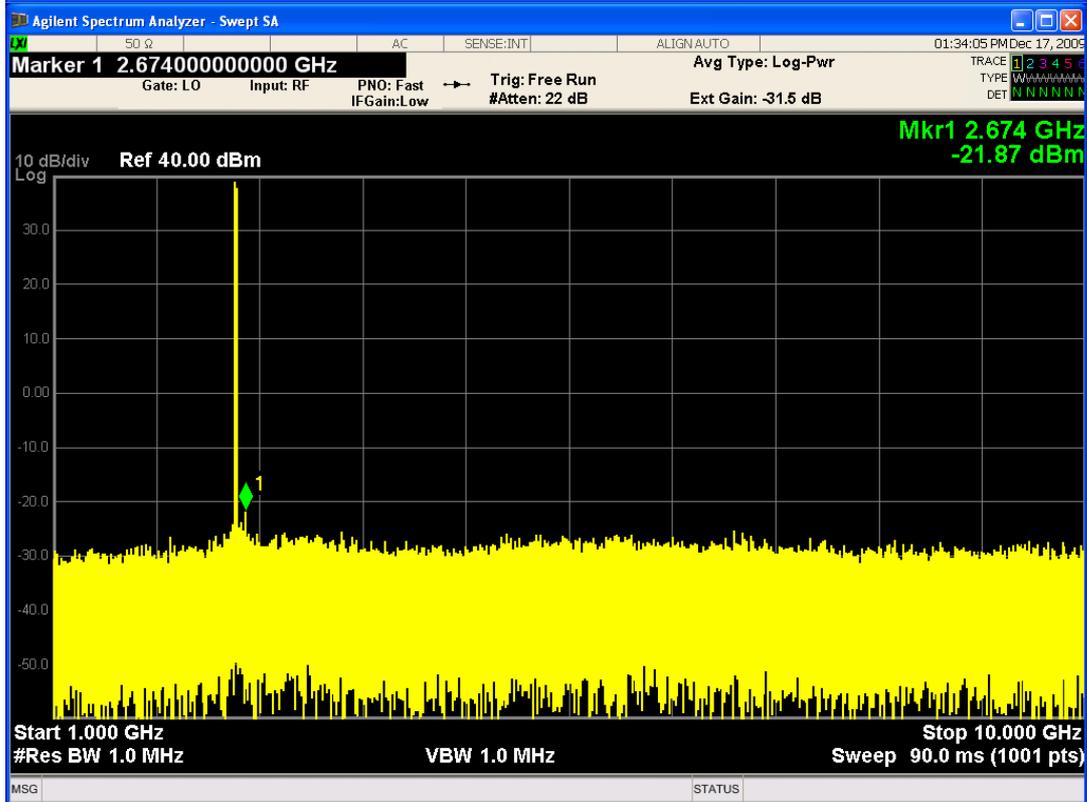
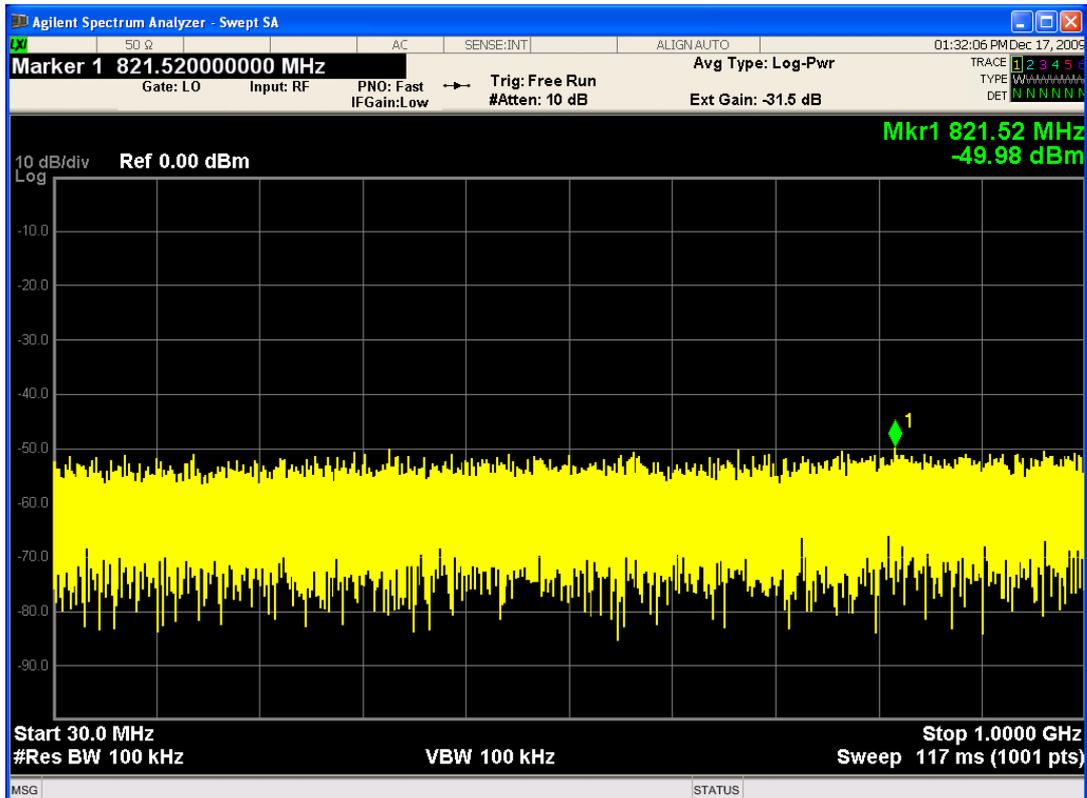
Antenna 2:
Occupied bandwidth is 5 MHz.

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-47.17	-13
	150KHz ~30MHz	2593	10KHz	-53.45	-13
	30MHz ~1GHz	2593	100KHz	-41.20	-13
	1GHz ~26.5GHz	2593	1MHz	-21.87	-13
Two carriers	9KHz~150KHz	2593	1KHz	-43.41	-13
	150KHz ~10MHz	2593	10KHz	-54.45	-13
	10MHz ~30MHz	2593	10KHz	-53.40	-13
	30MHz ~1GHz	2593	100KHz	-48.50	-13
	1GHz ~26.5GHz	2593	1MHz	-25.00	-13

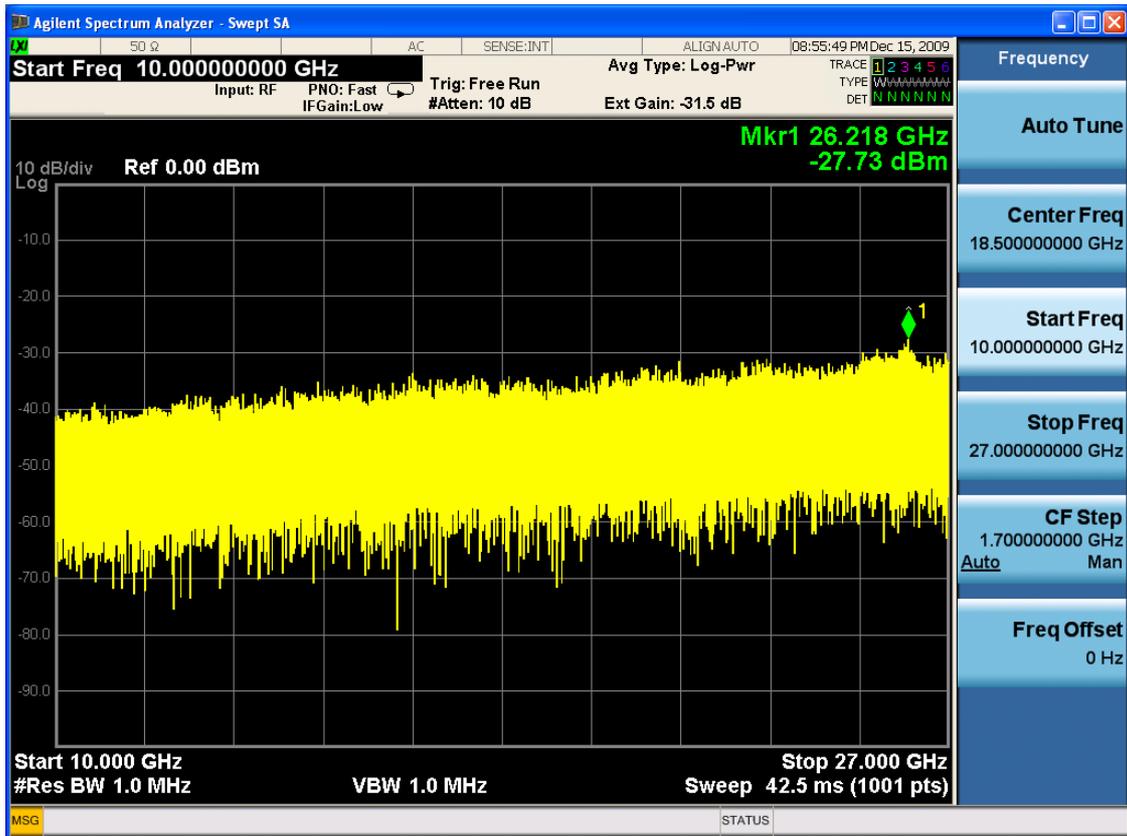
2593MHz (one carrier)



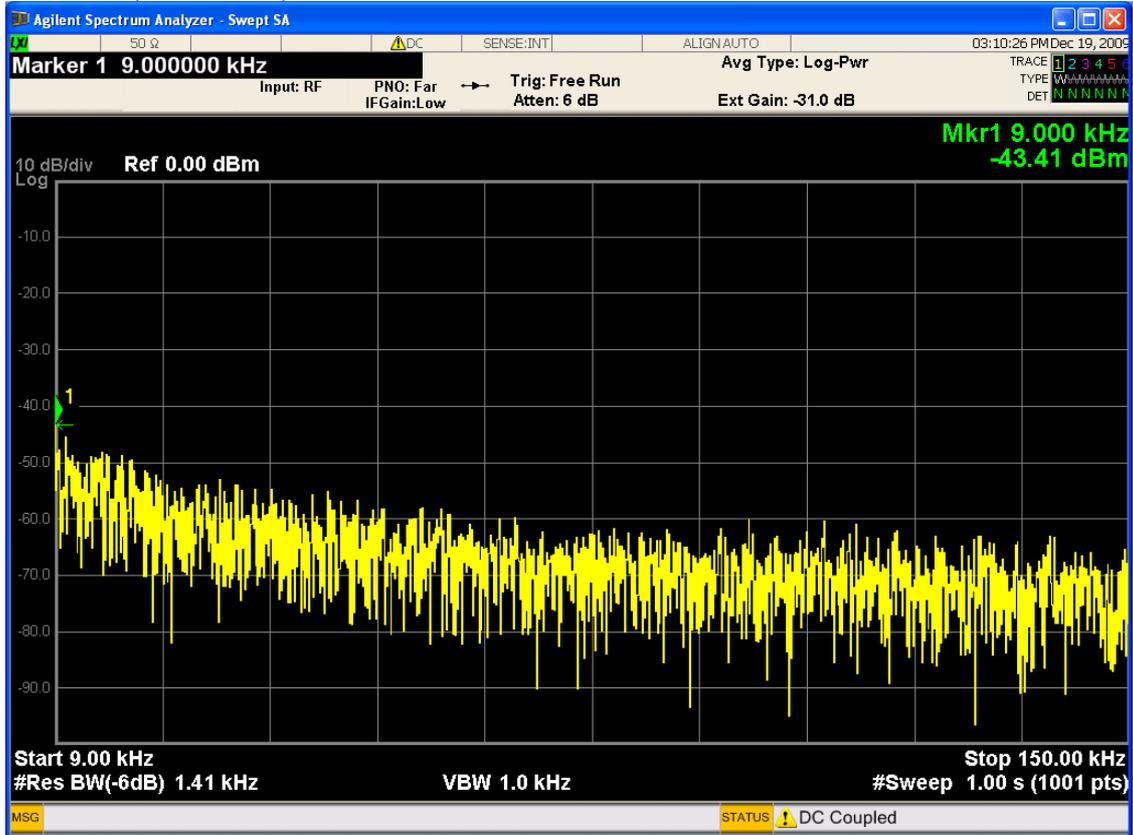


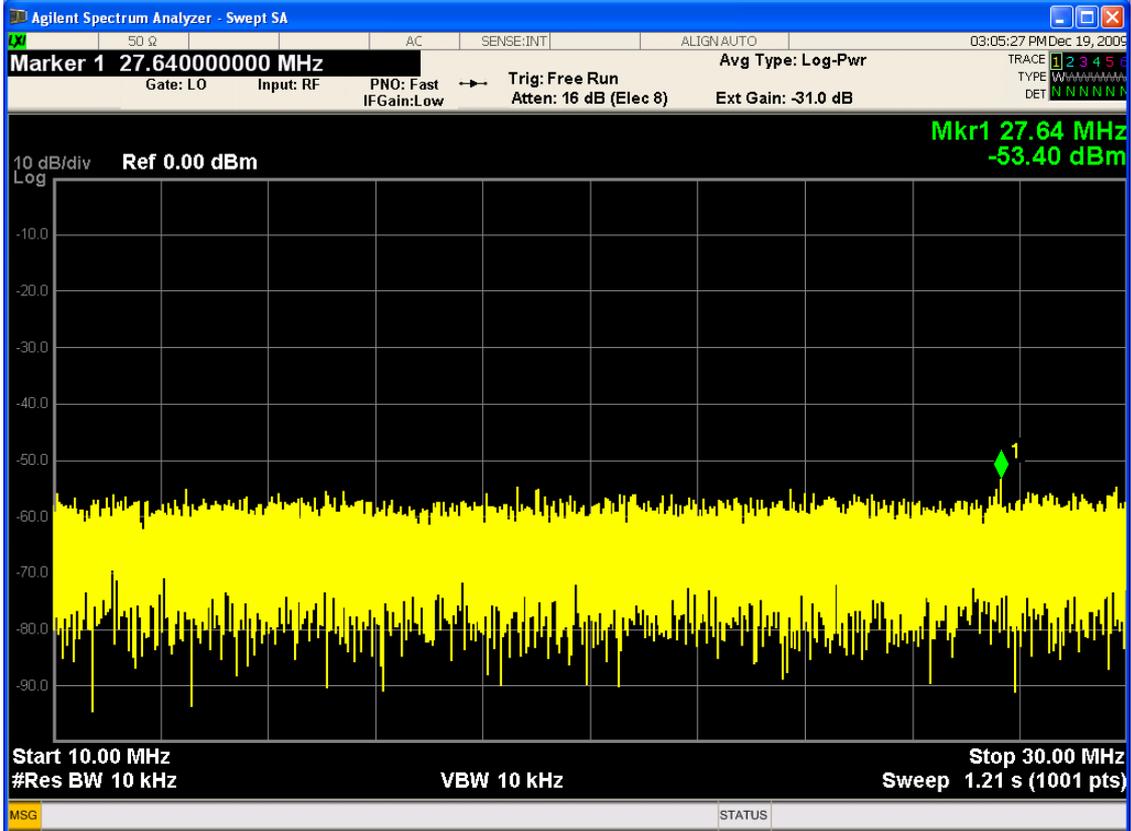
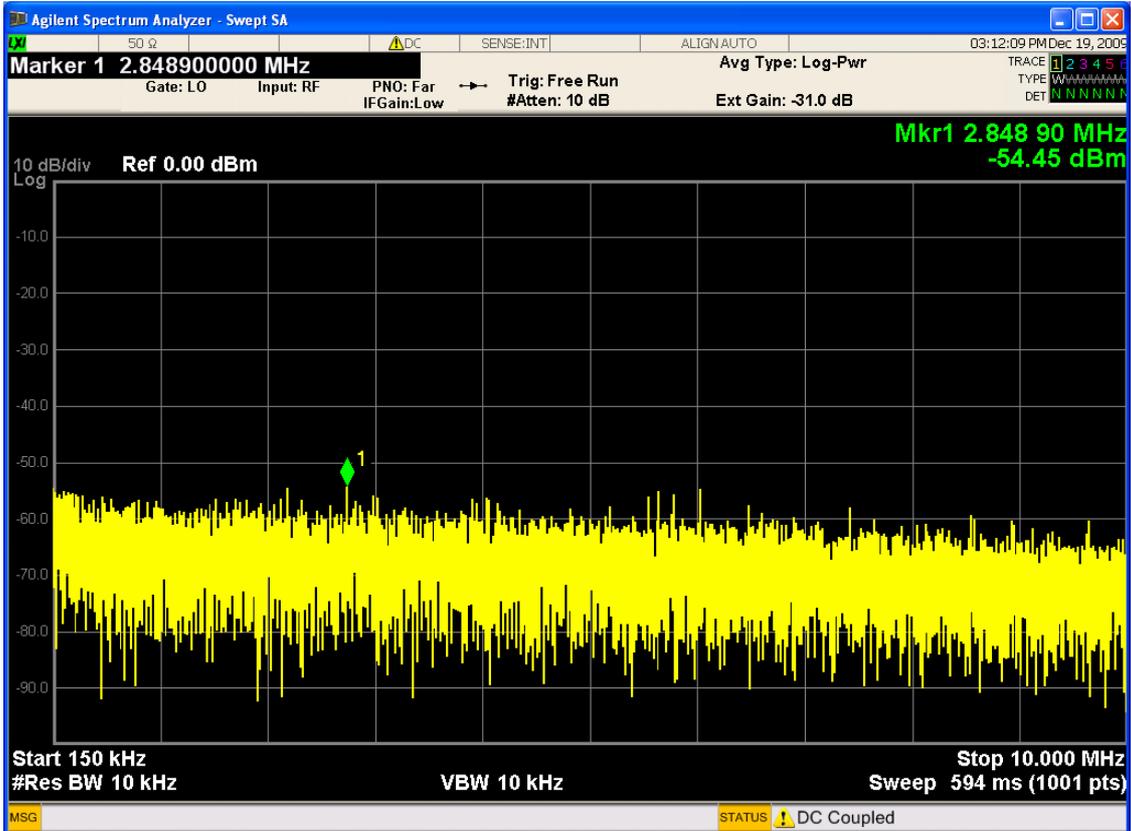


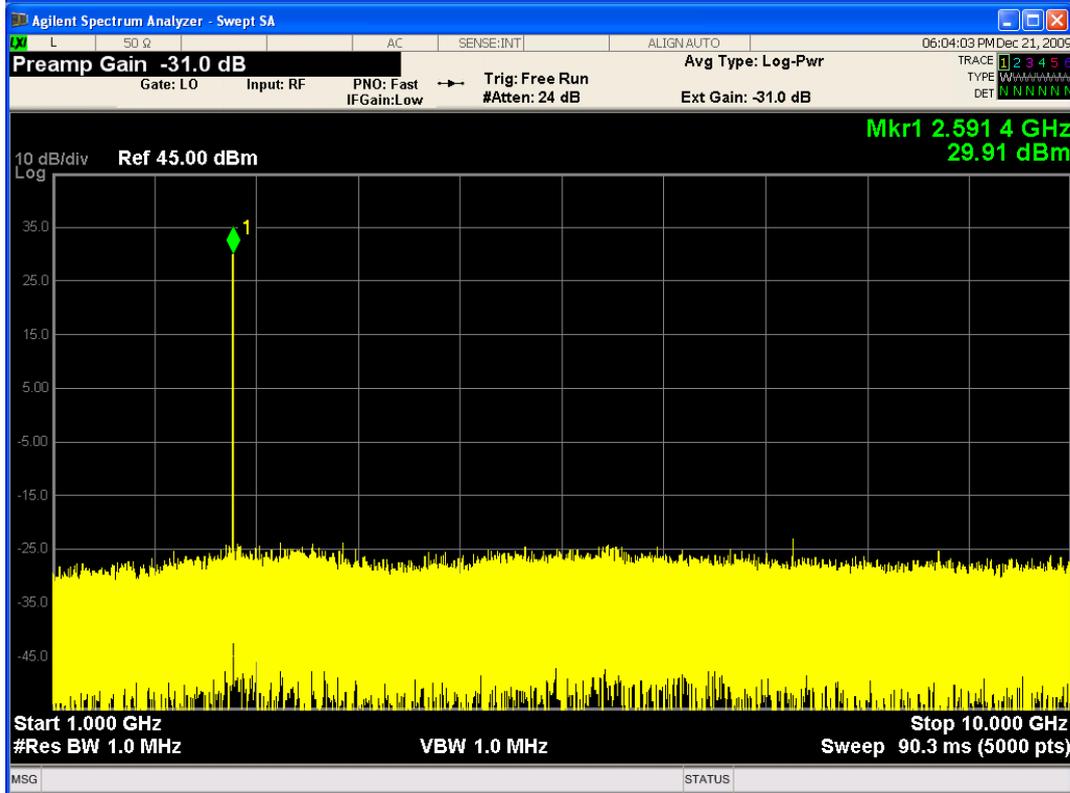
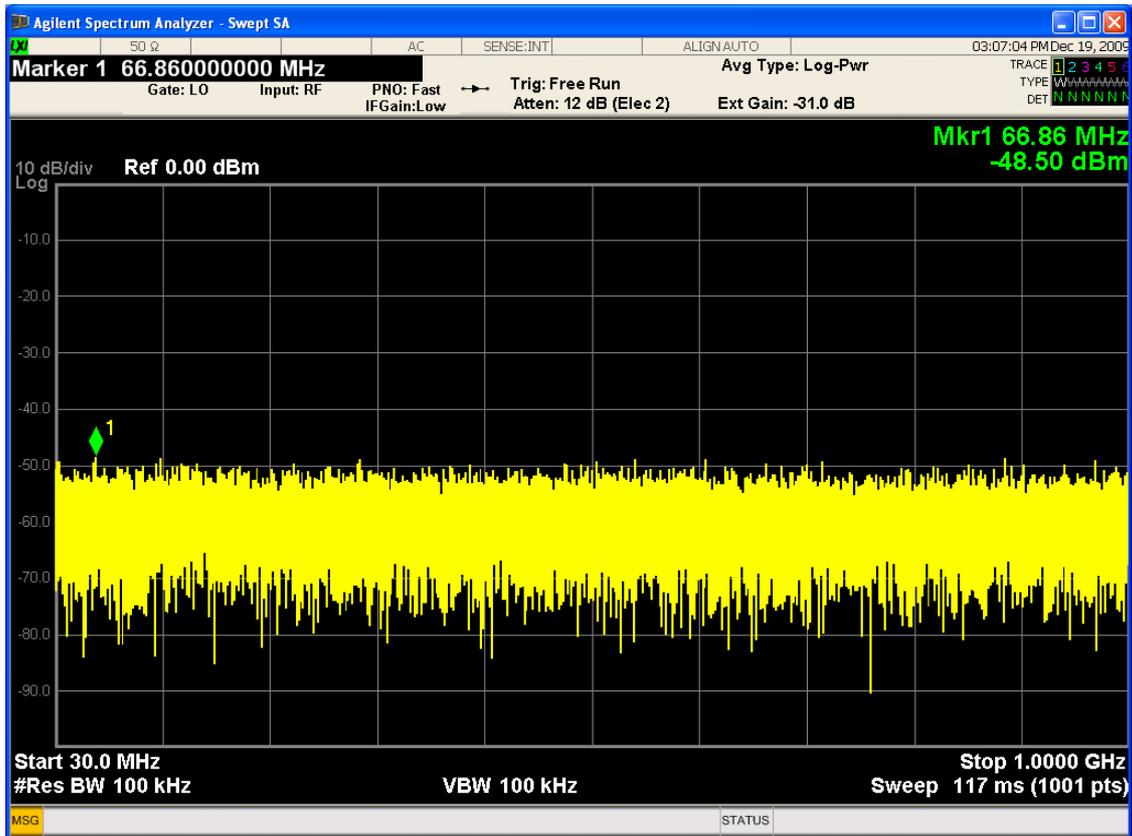
*the highest peak value is in working block



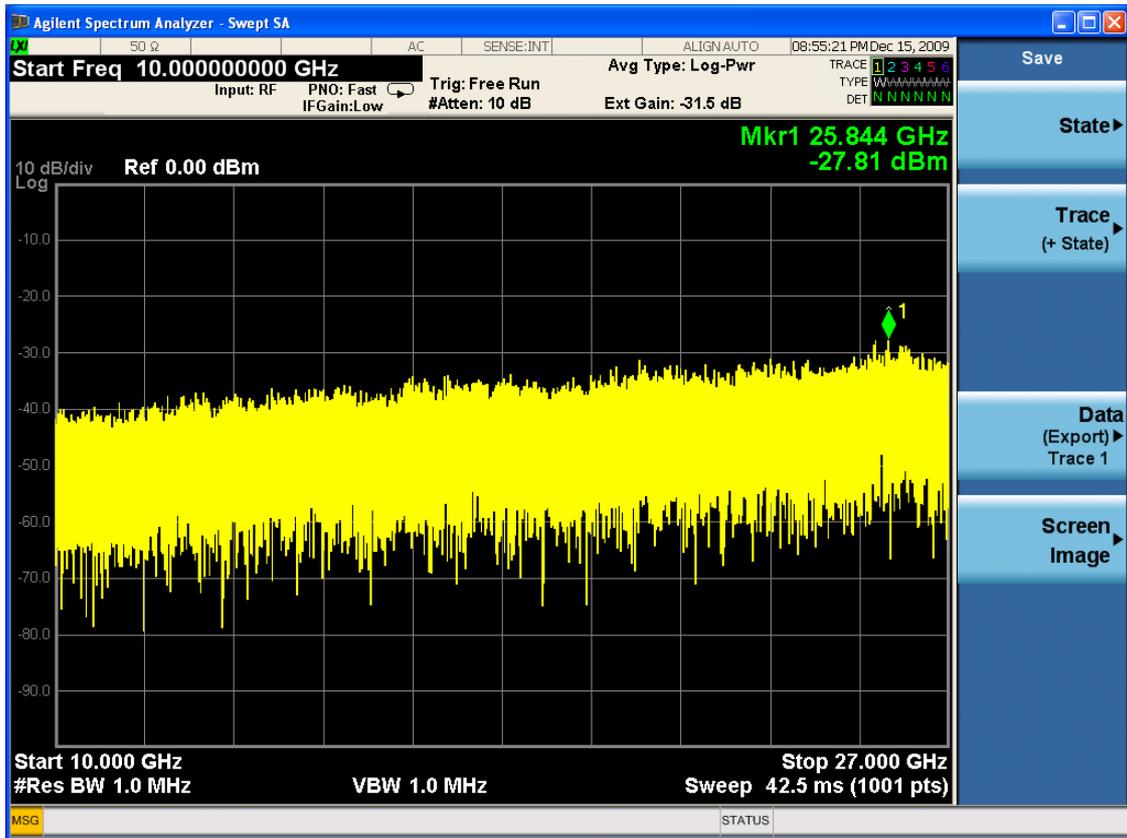
2593MHz (two carriers)







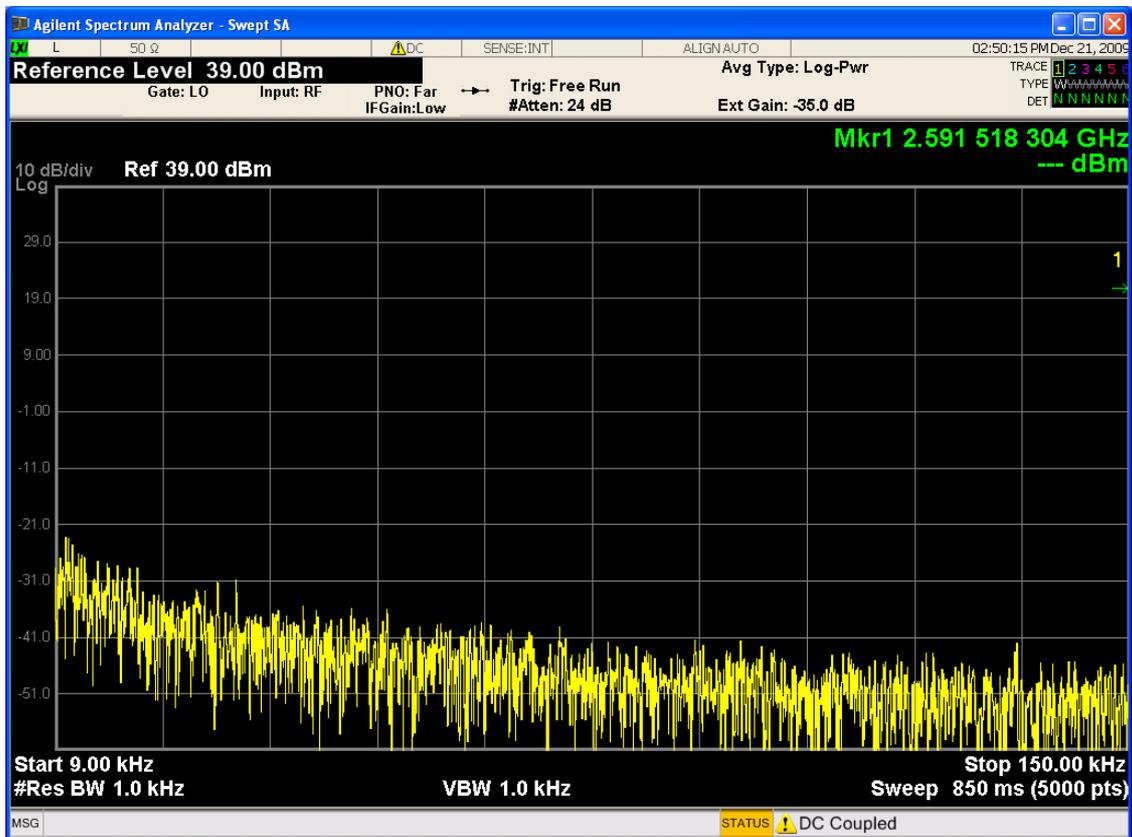
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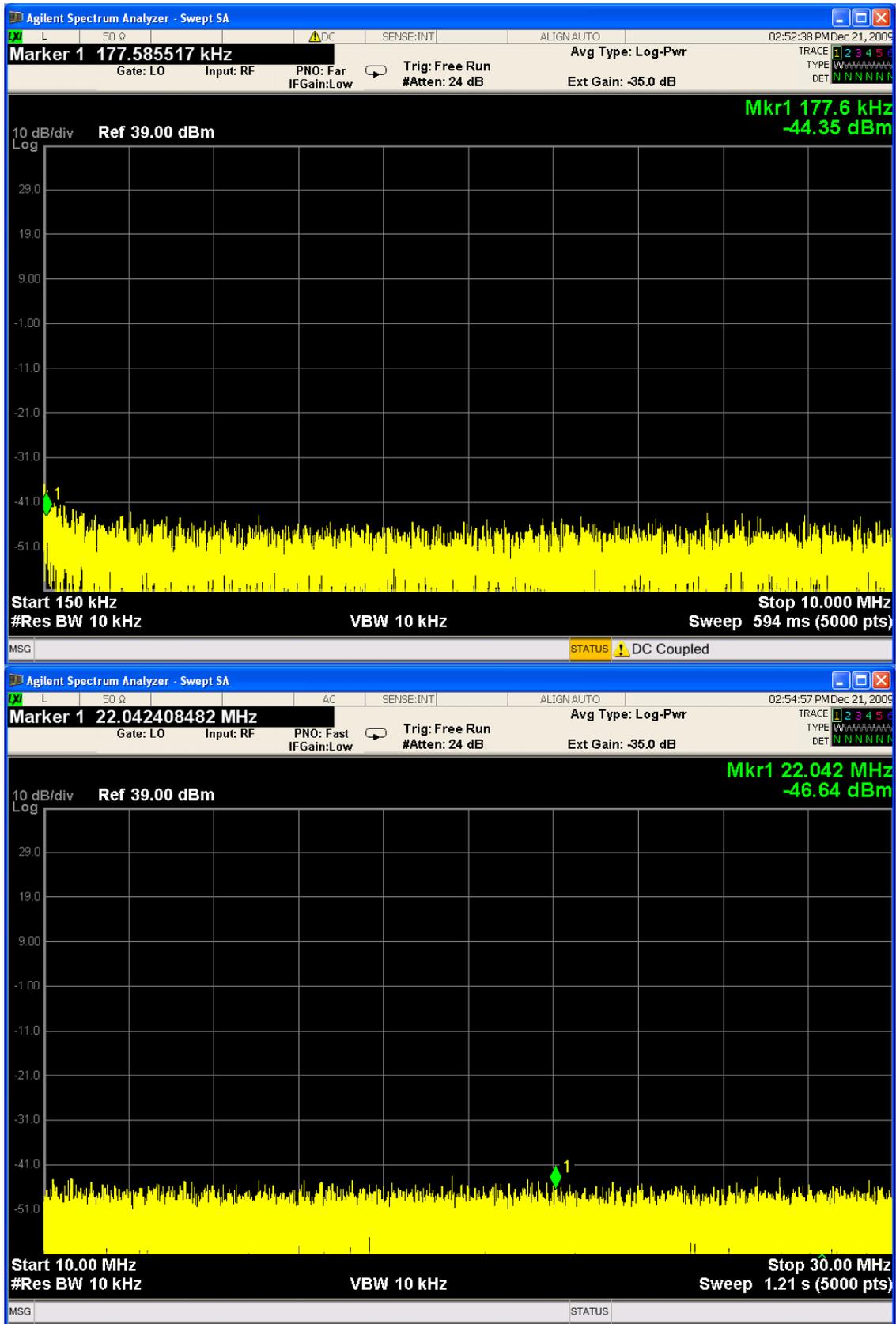


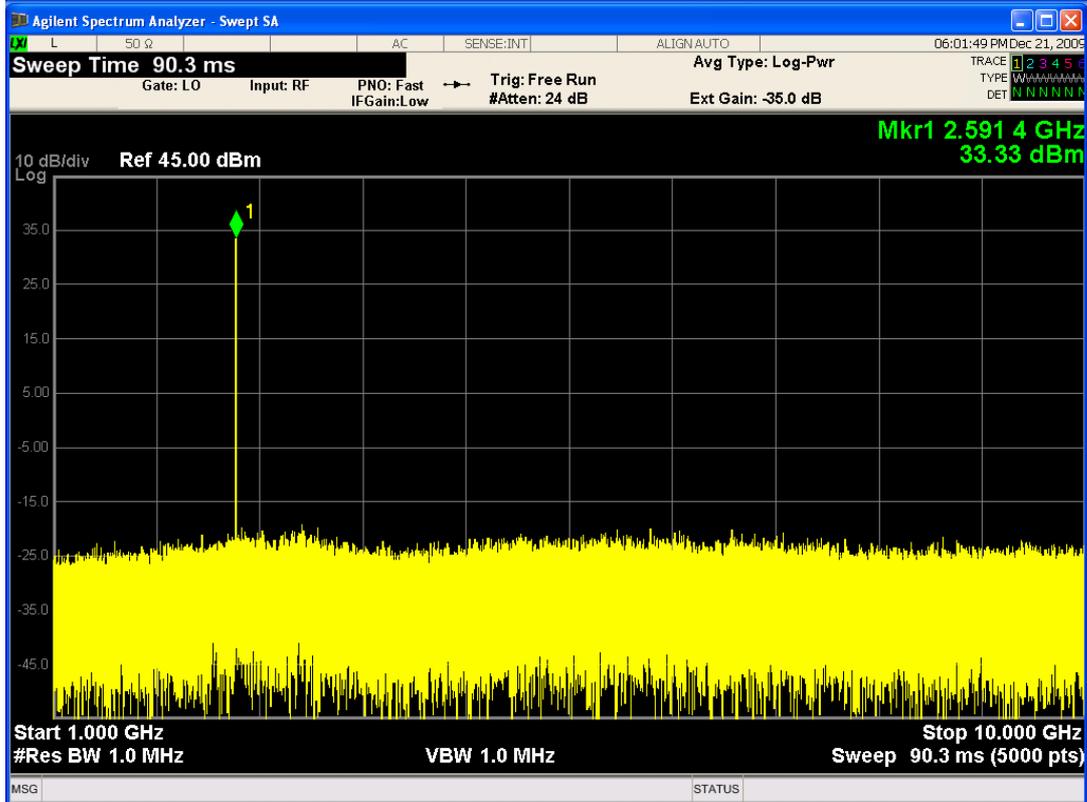
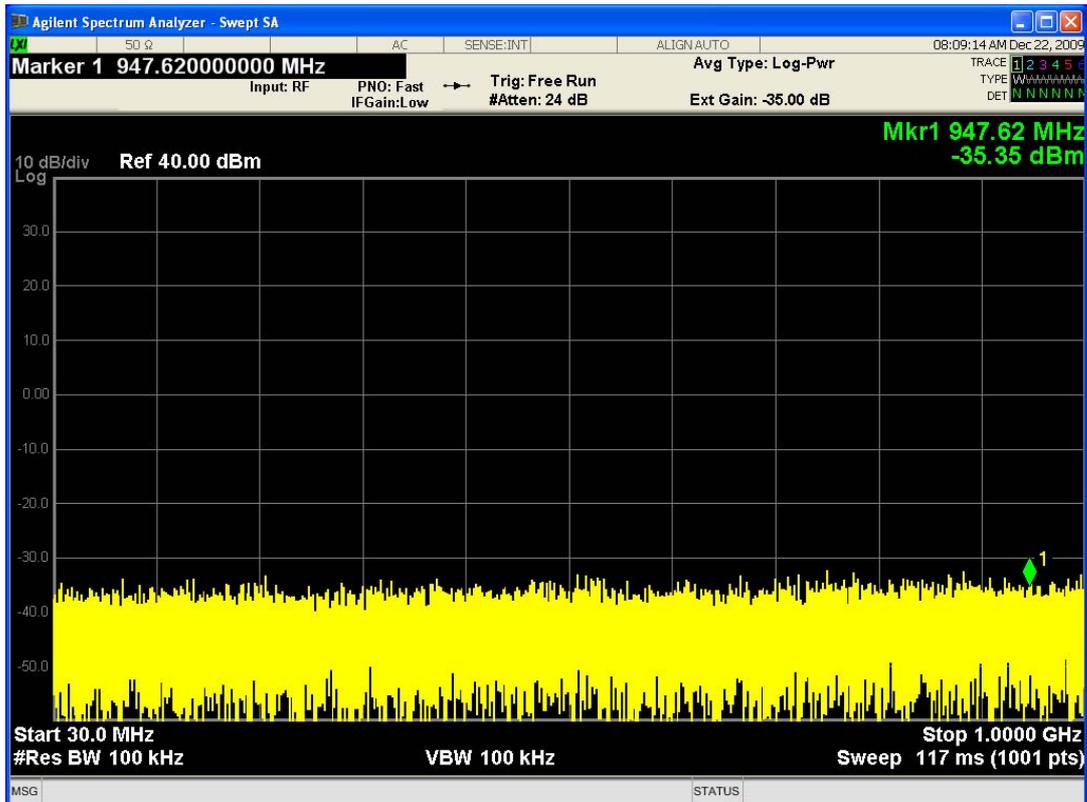
MIMO test
Occupied bandwidth is 5MHz

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-21.00	-13
	150KHz ~10MHz	2593	10KHz	-44.35	-13
	10MHz ~30MHz	2593	10KHz	-46.64	-13
	30MHz ~1GHz	2593	100KHz	-35.35	-13
	1GHz ~26.5GHz	2593	1MHz	-15.00	-13
Two carriers	9KHz~150KHz	2593	1KHz	-21.00	-13
	150KHz ~10MHz	2593	10KHz	-42.44	-13
	10MHz ~30MHz	2593	10KHz	-46.64	-13
	30MHz ~1GHz	2593	100KHz	-35.35	-13
	1GHz ~26.5GHz	2593	1MHz	-15.00	-13

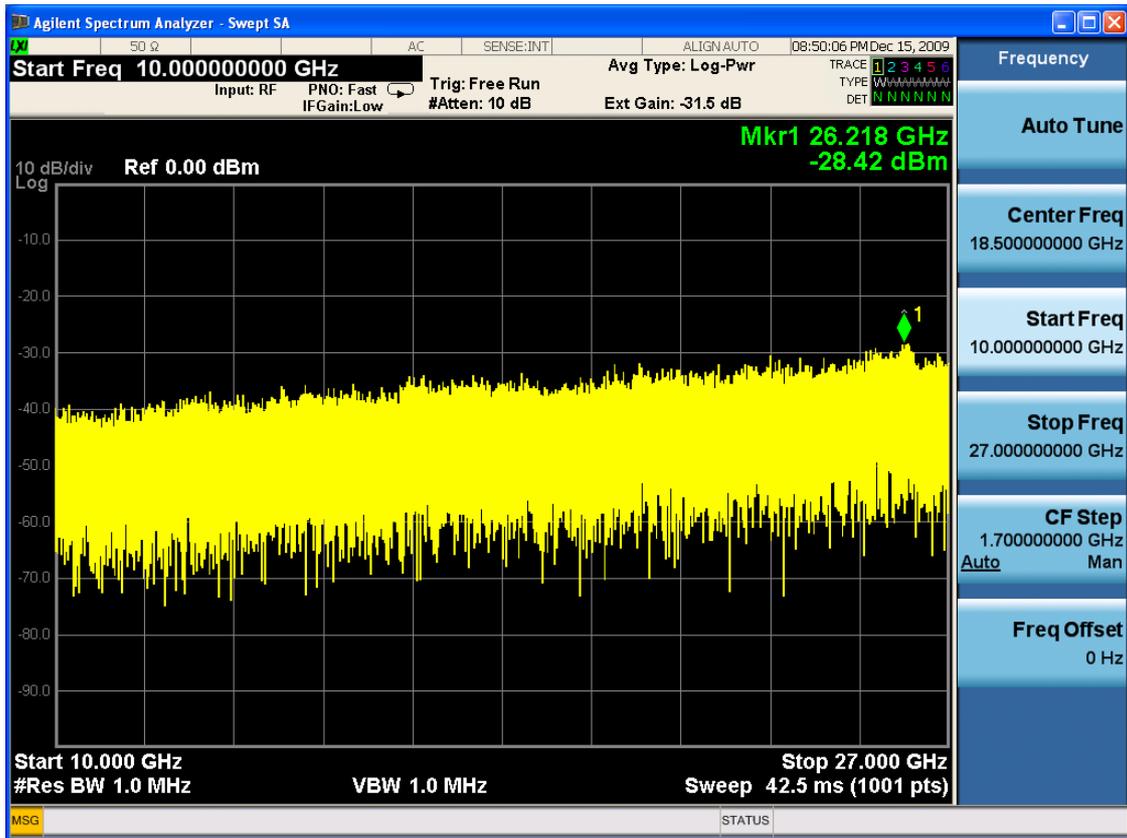
2593MHz(one carrier)



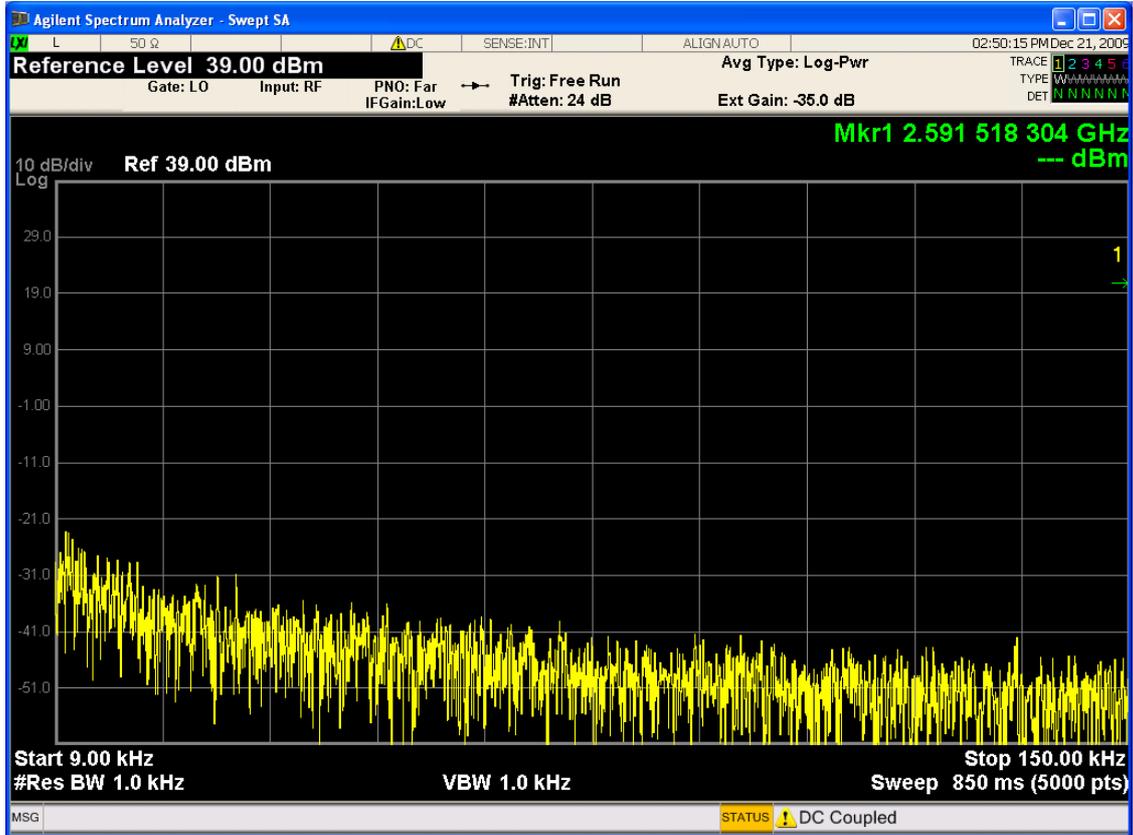


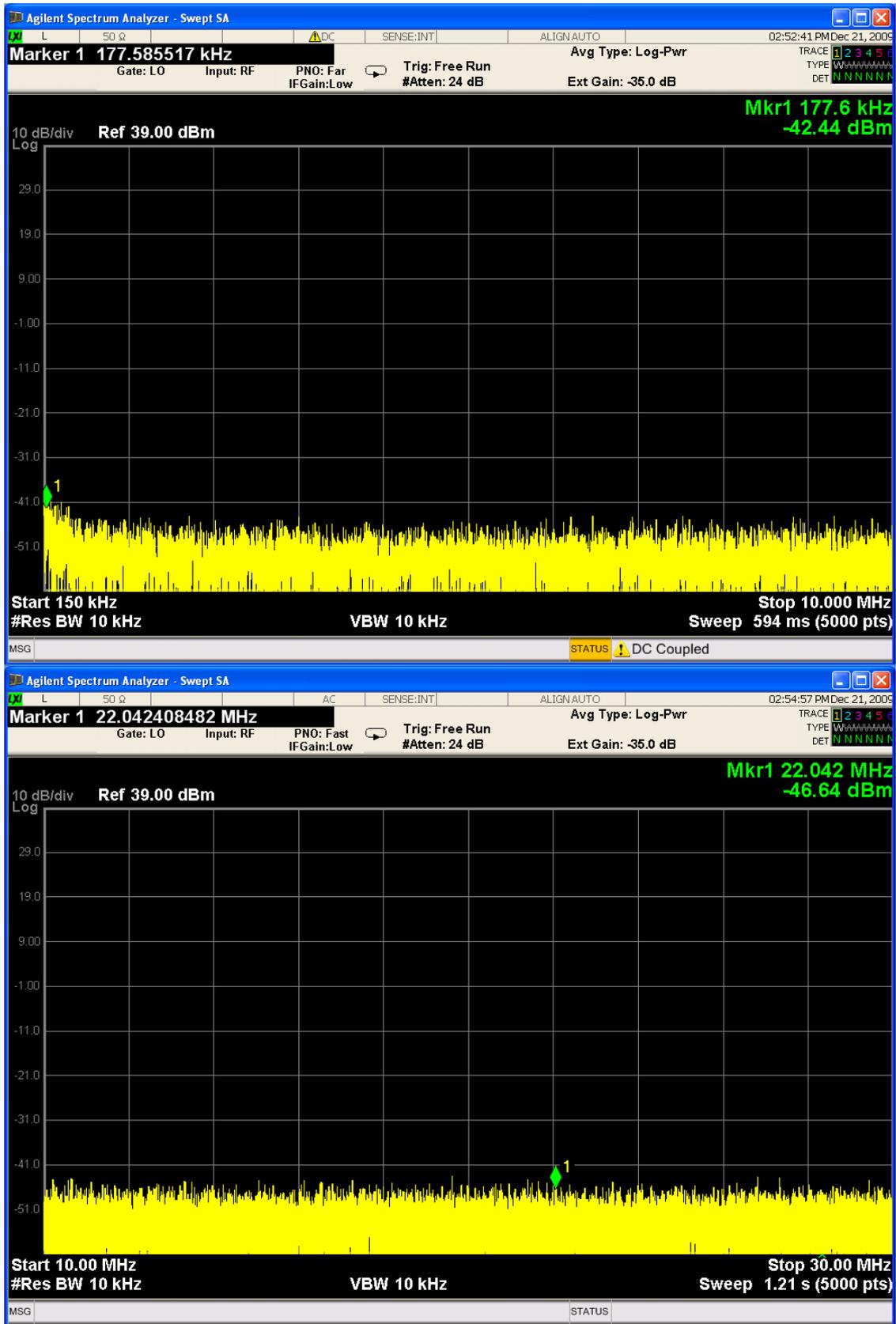


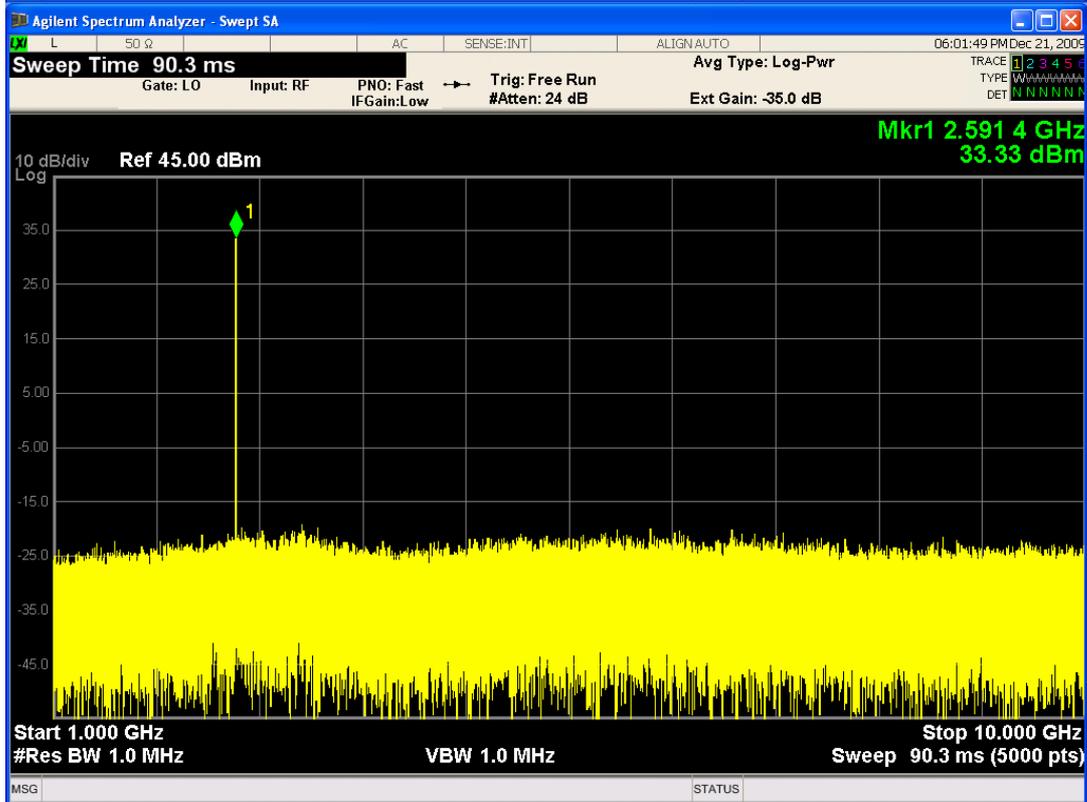
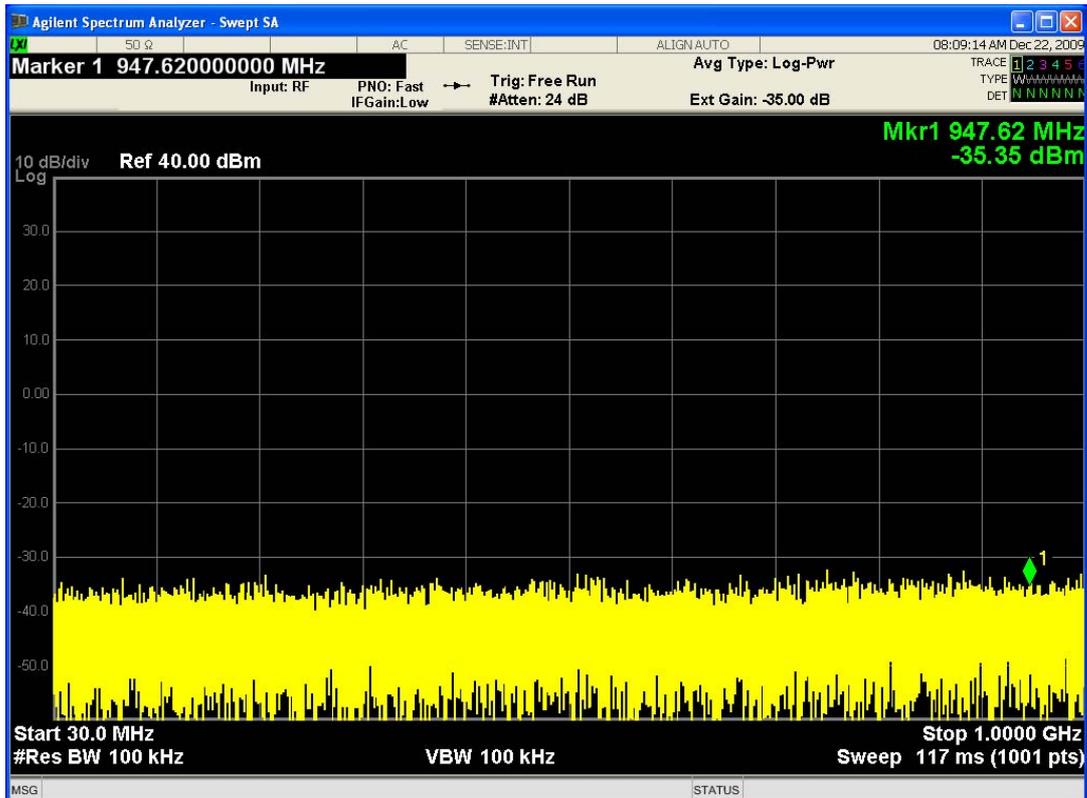
*The highest peak value is in working block



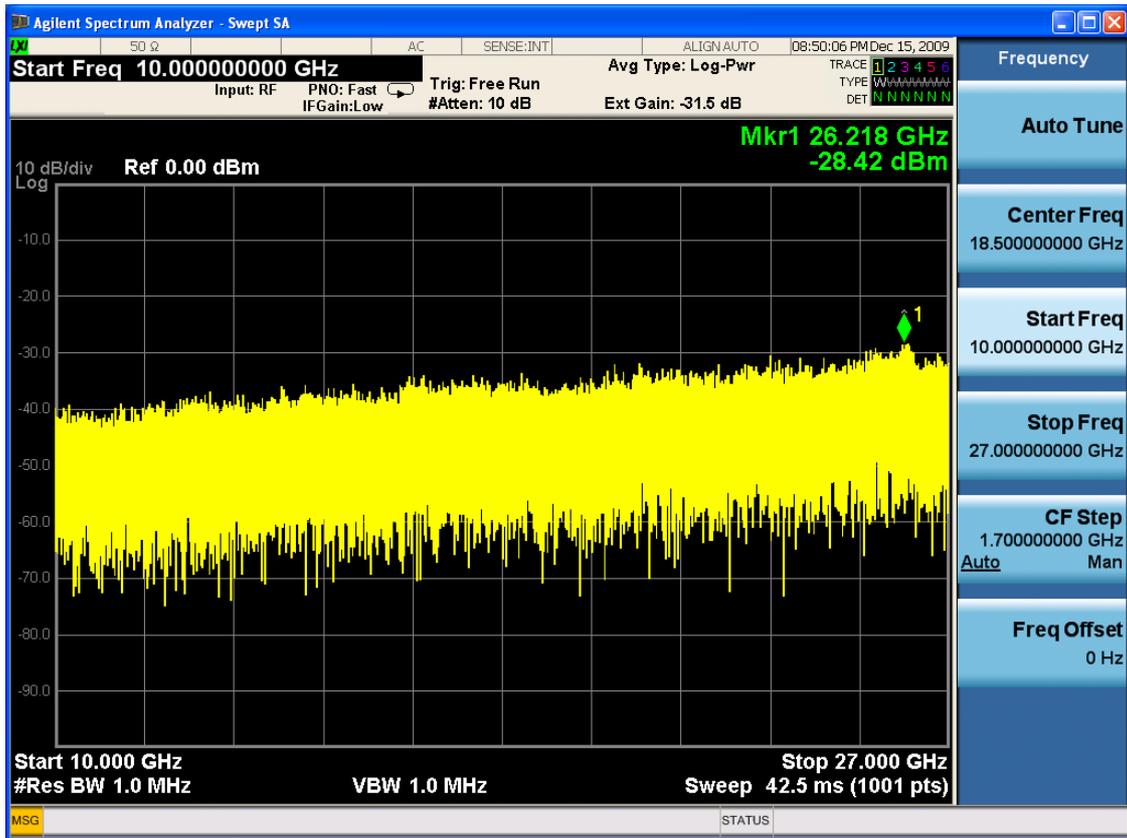
Two carriers







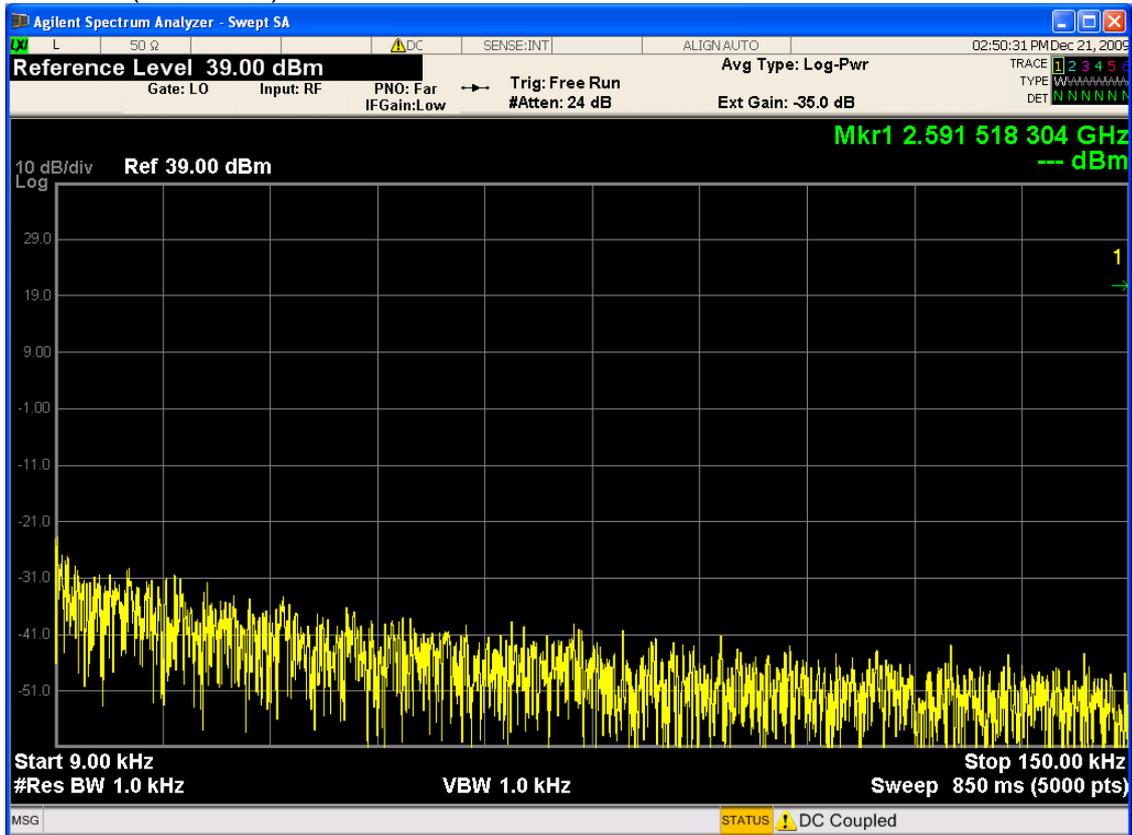
*the highest peak value is in working block

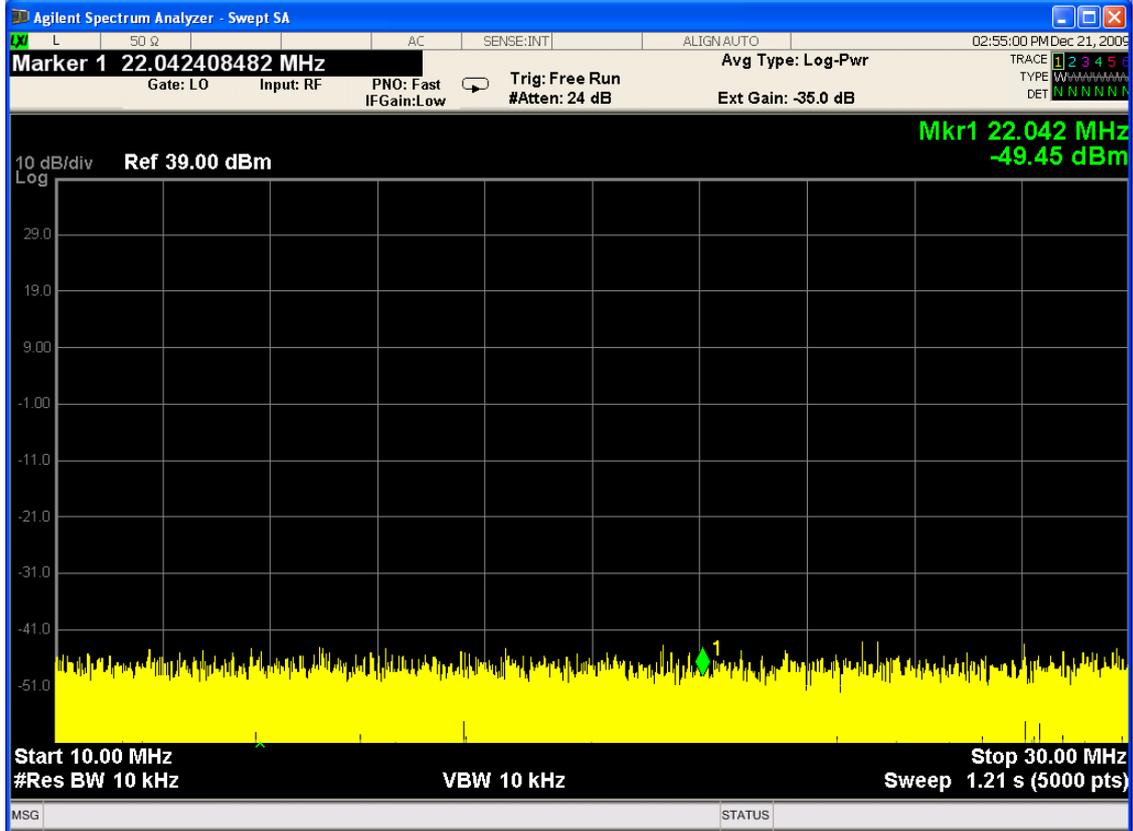
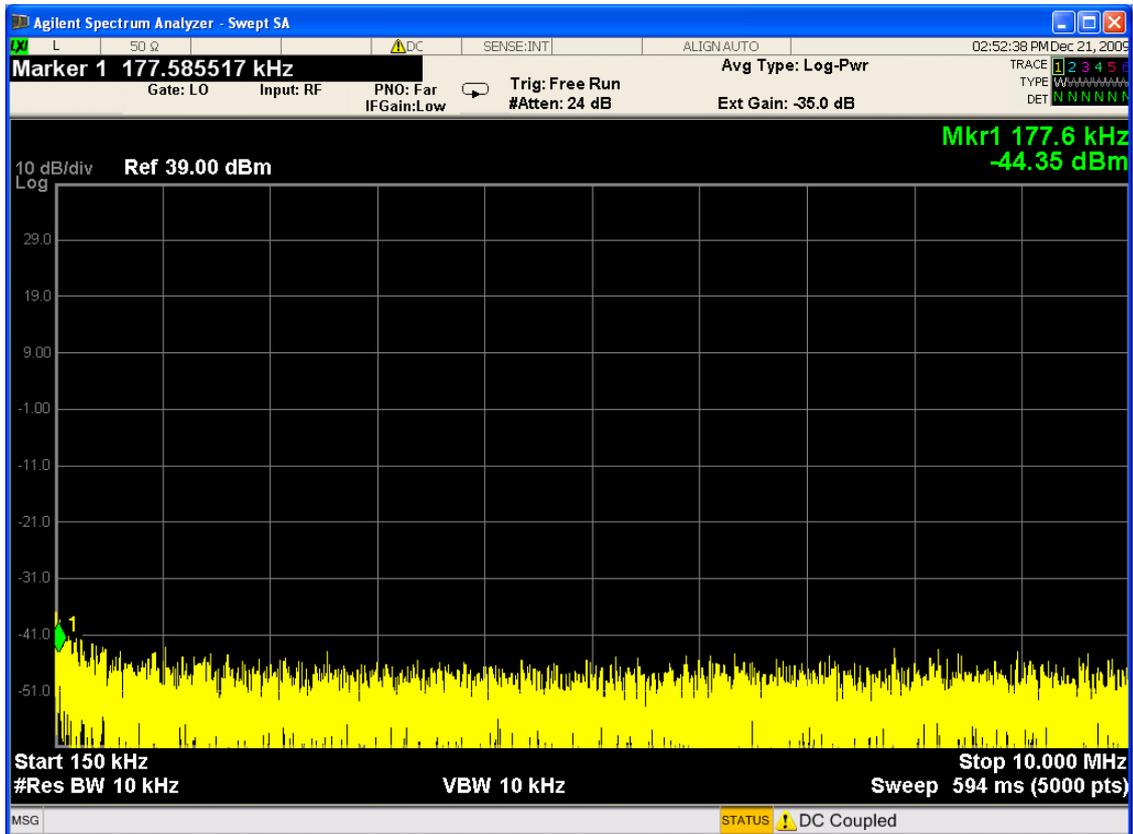


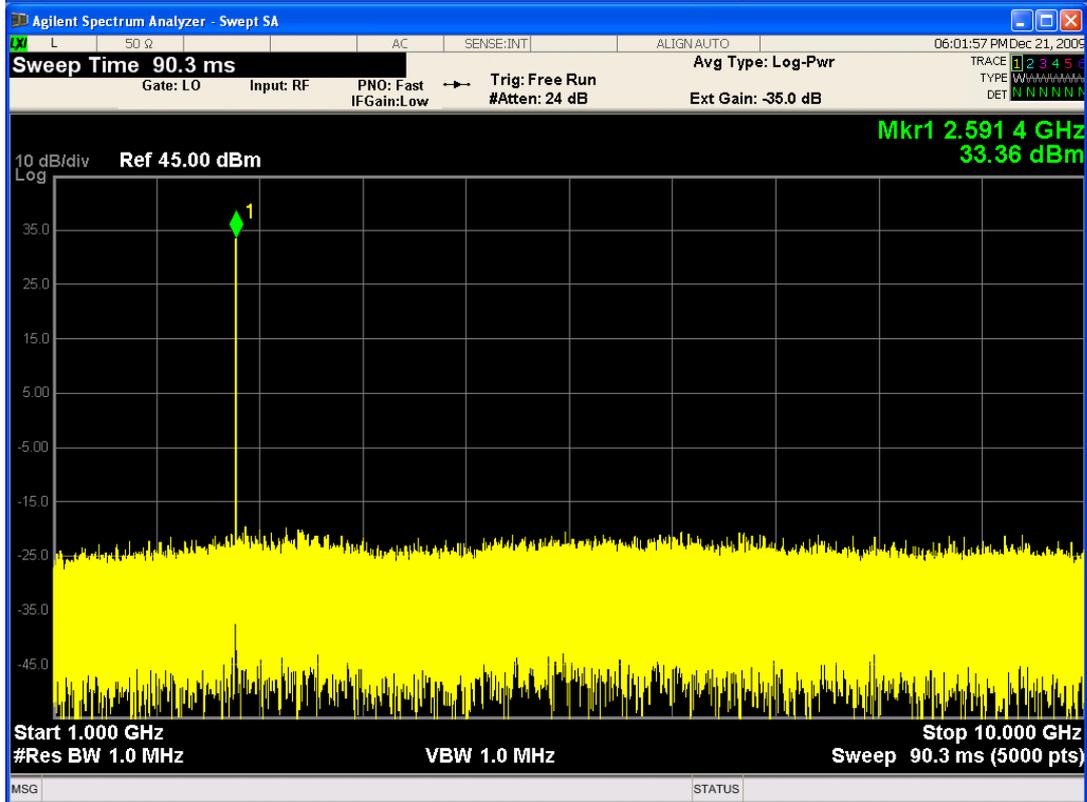
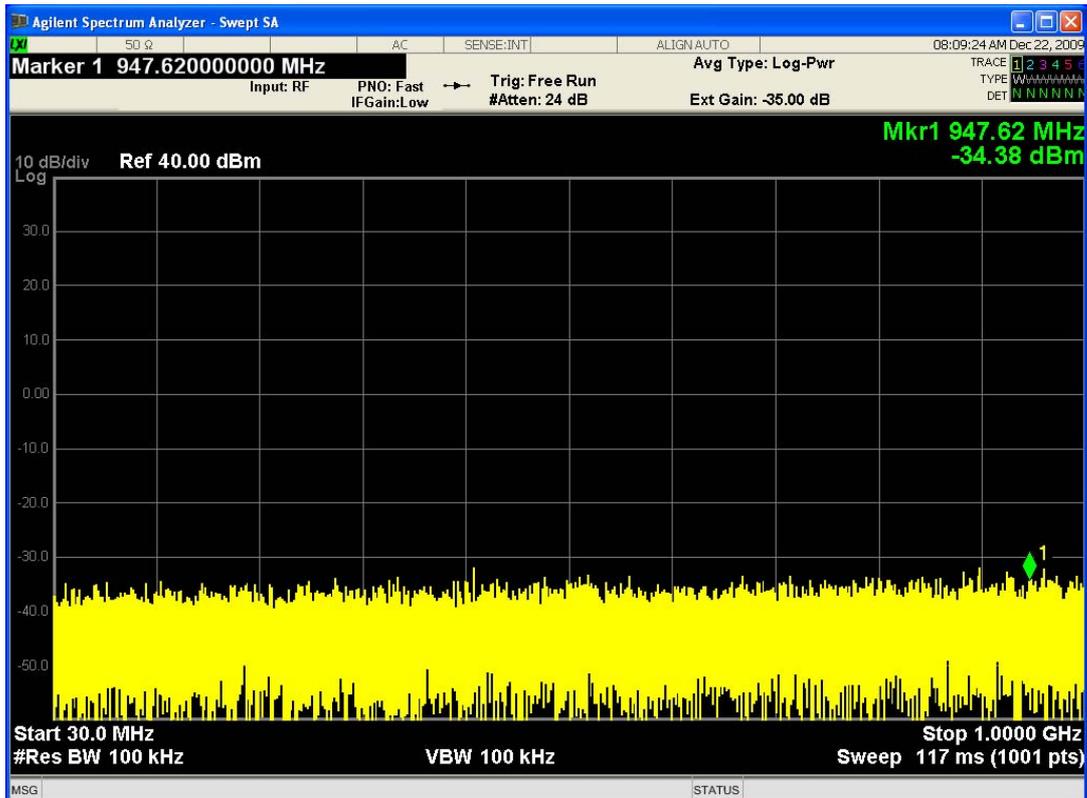
Occupied bandwidth is 10MHz

Carrier	Freq. range	Channel	RBW	Measured value(Max in dBm)	Limit (dBm)
Single carrier	9KHz~150KHz	2593	1KHz	-21.00	-13
	150KHz ~10MHz	2593	10KHz	-44.35	-13
	10MHz ~30MHz	2593	10KHz	-49.45	-13
	30MHz ~1GHz	2593	100KHz	-34.38	-13
	1GHz ~26.5GHz	2593	1MHz	-15.00	-13
Two carriers	9KHz~150KHz	2593	1KHz	-21.00	-13
	150KHz ~10MHz	2593	10KHz	-42.44	-13
	10MHz ~30MHz	2593	10KHz	-49.45	-13
	30MHz ~1GHz	2593	100KHz	-34.38	-13
	1GHz ~26.5GHz	2593	1MHz	-20.72	-13

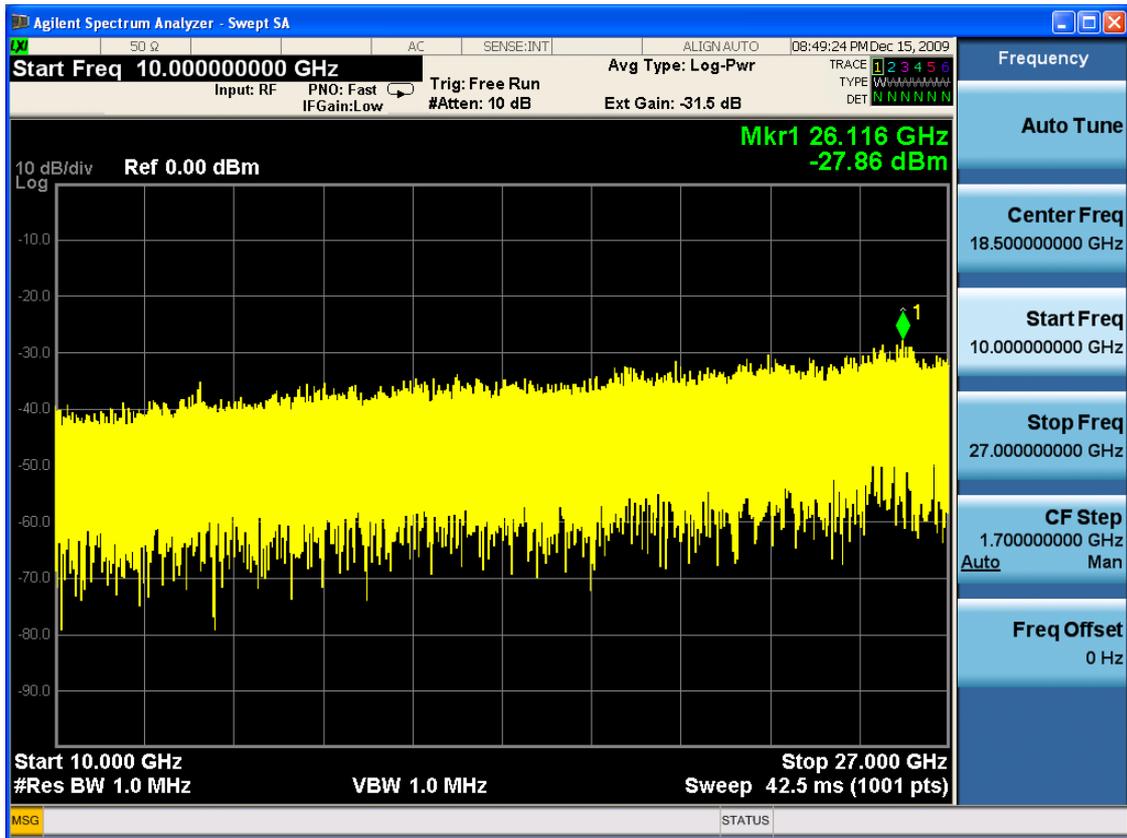
2593MHz (one carrier)



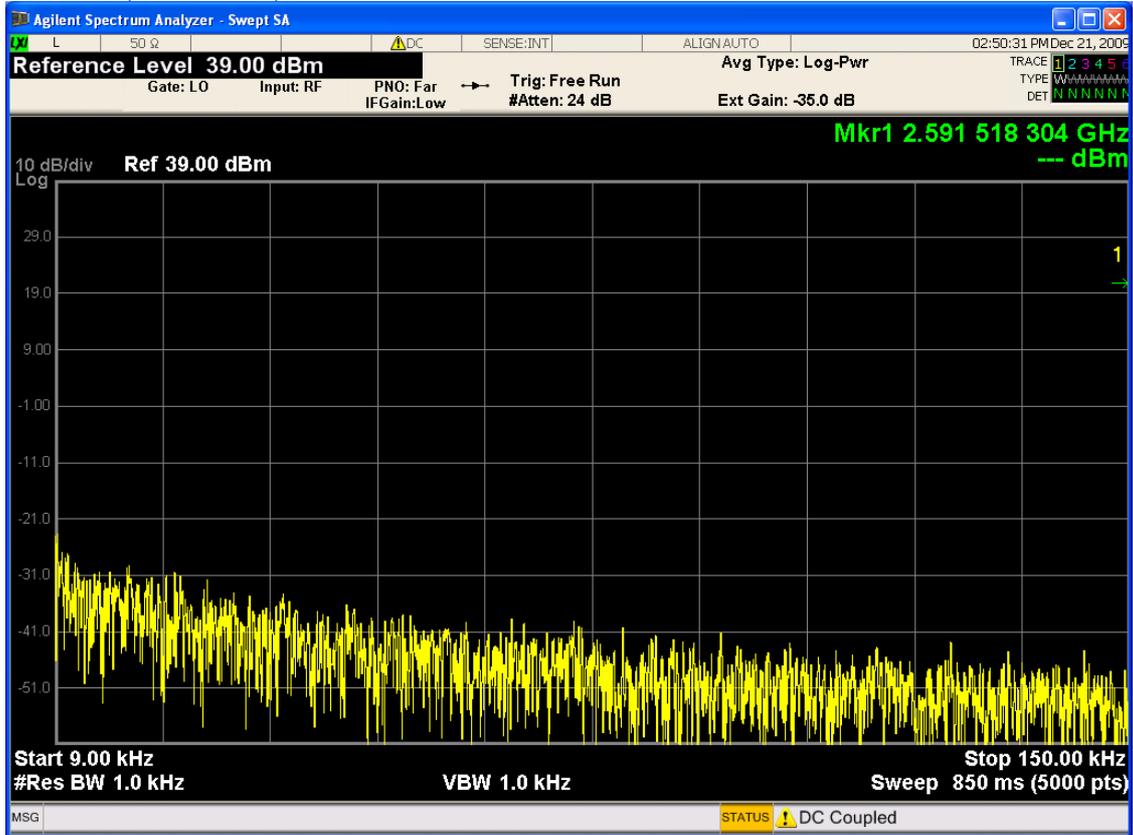


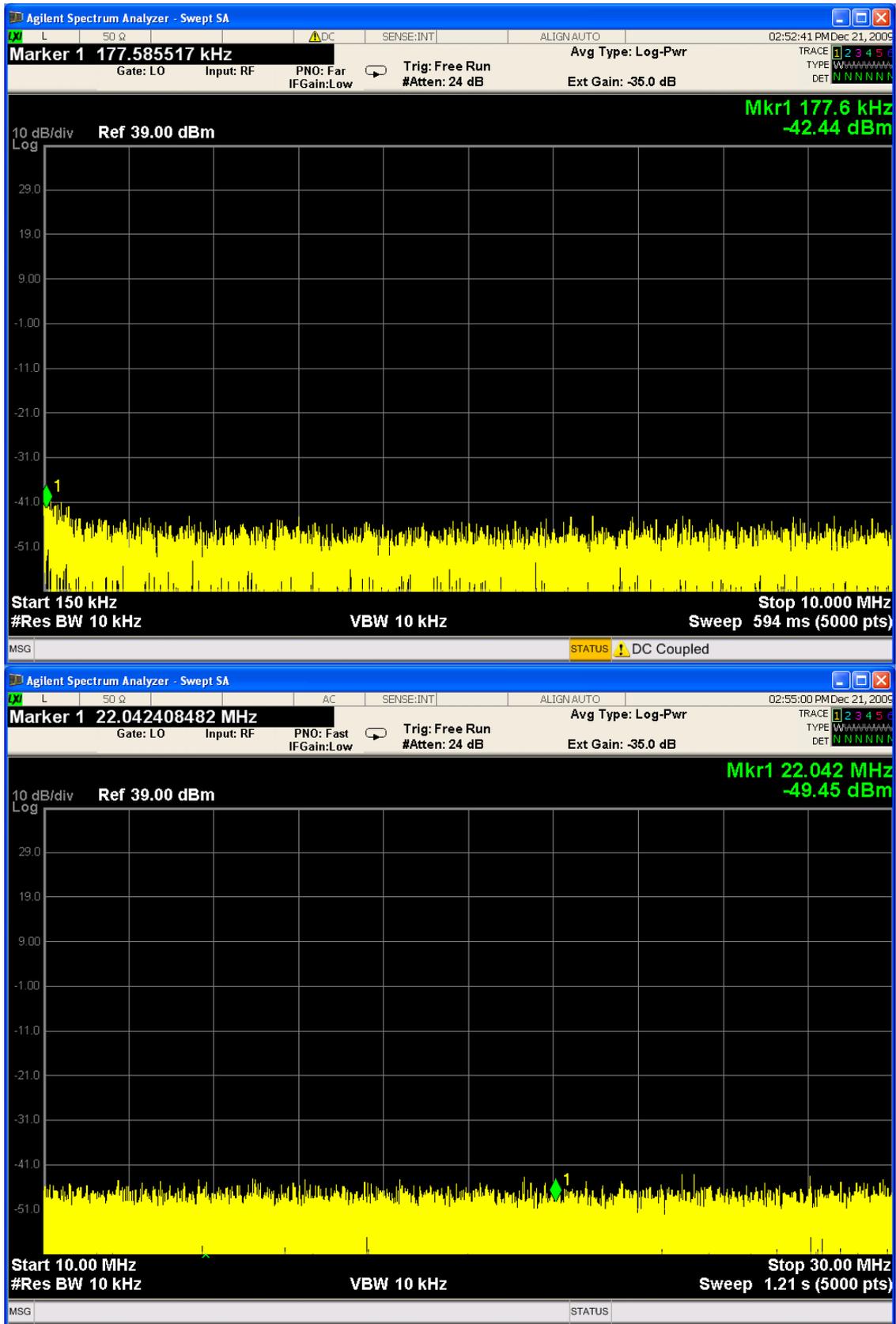


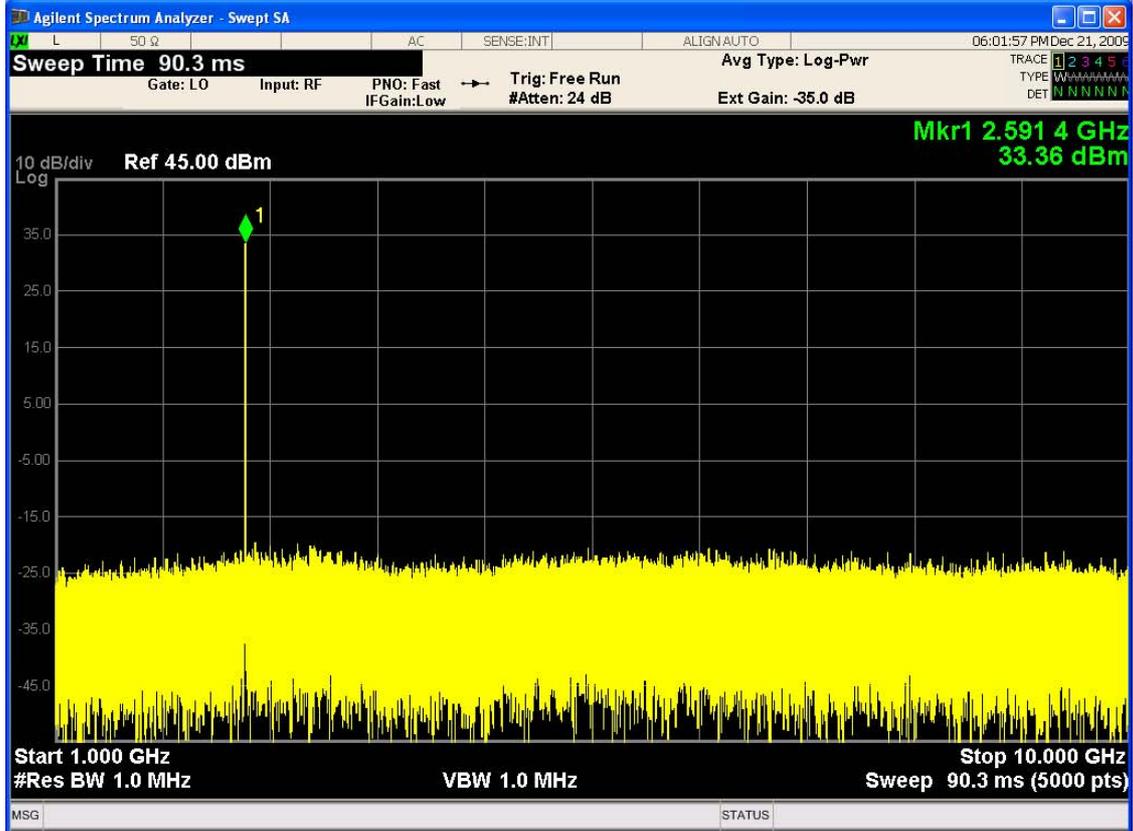
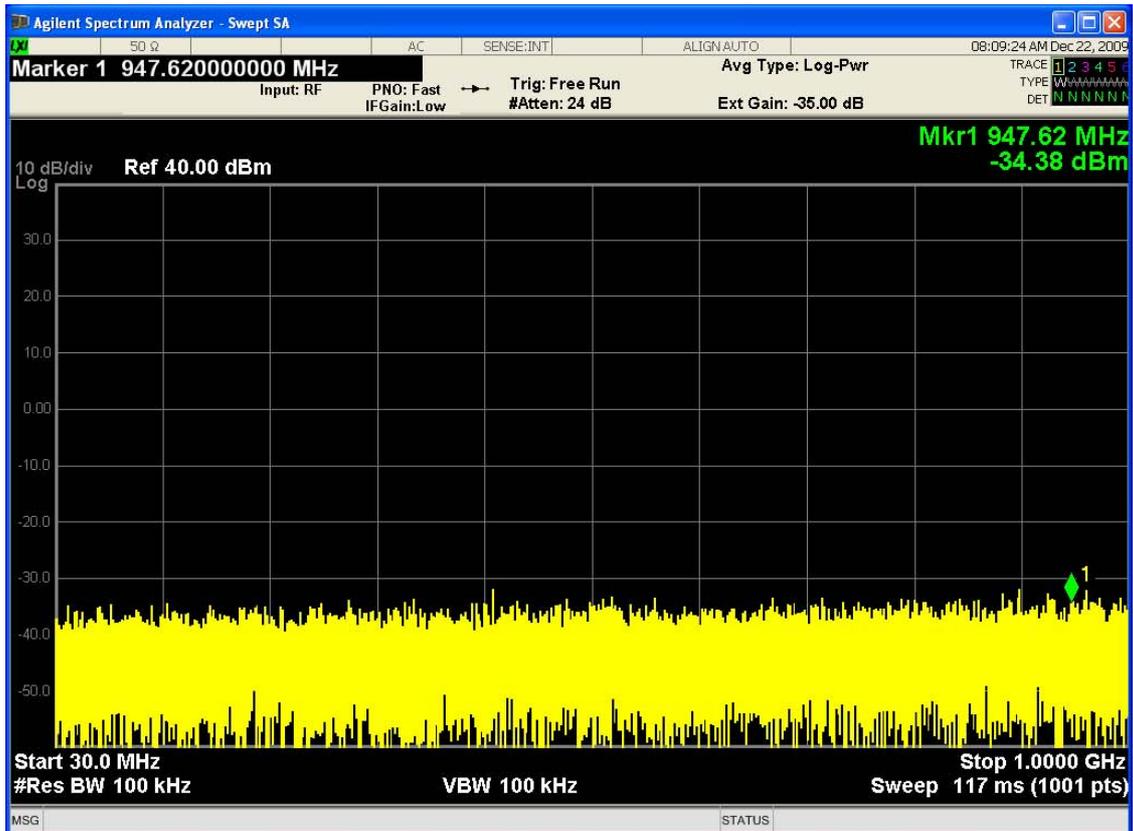
*the highest peak value is in working block

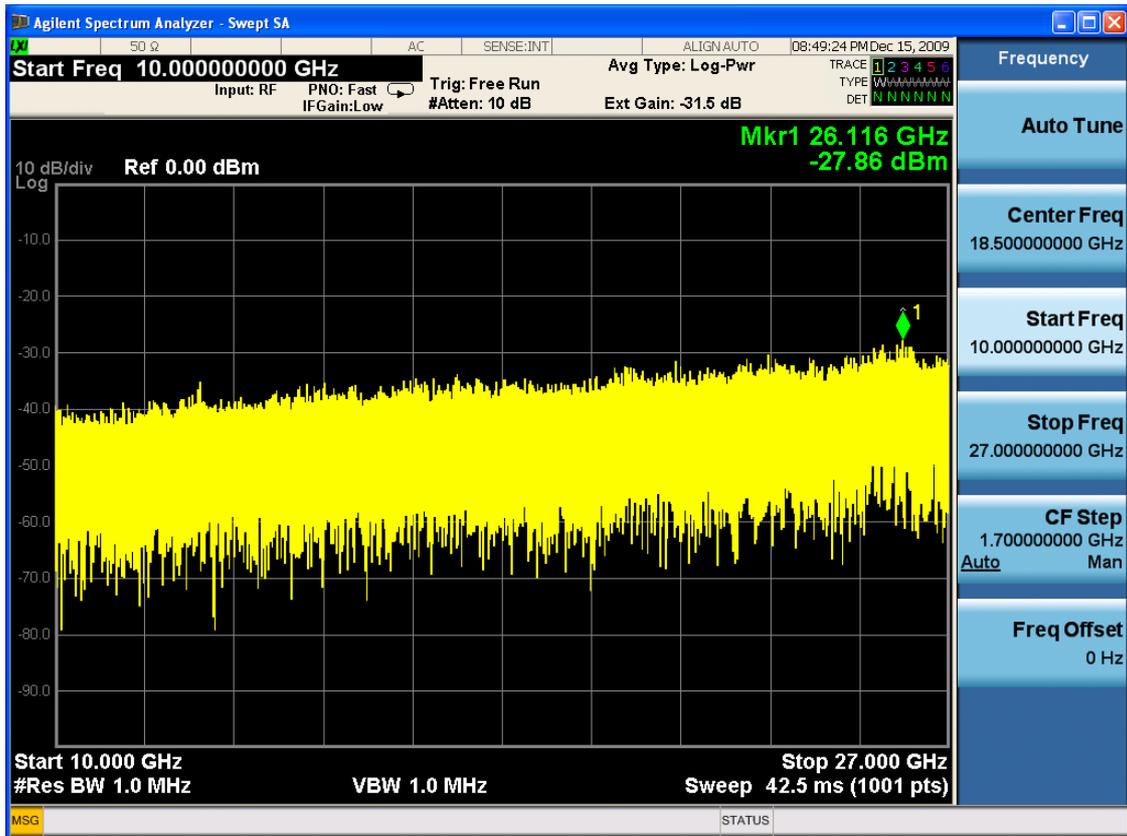


2593MHz(two carriers)









9 §2.1049-OCCUPIED BANDWIDTH

Applicable Standard Requirements: CFR 47, Section 2.1049

Test Equipment List and Details :

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	N/A	2009-4-10	2010-4-9
YLT	SN-SJ-150 40dB Attenuator	SN-SJ-150	N/A	N/A	N/A
SWA	SWA Packard RF Cable	RFC1/07-1050	N/A	N/A	N/A

Test Procedure

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

The resolution bandwidth of the spectrum analyzer was set at 100 kHz and 99% Power bandwidth was recorded.

Environmental Conditions

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

The testing was performed by Wei bin during Oct 27, 2009 to Dec 19,2009.

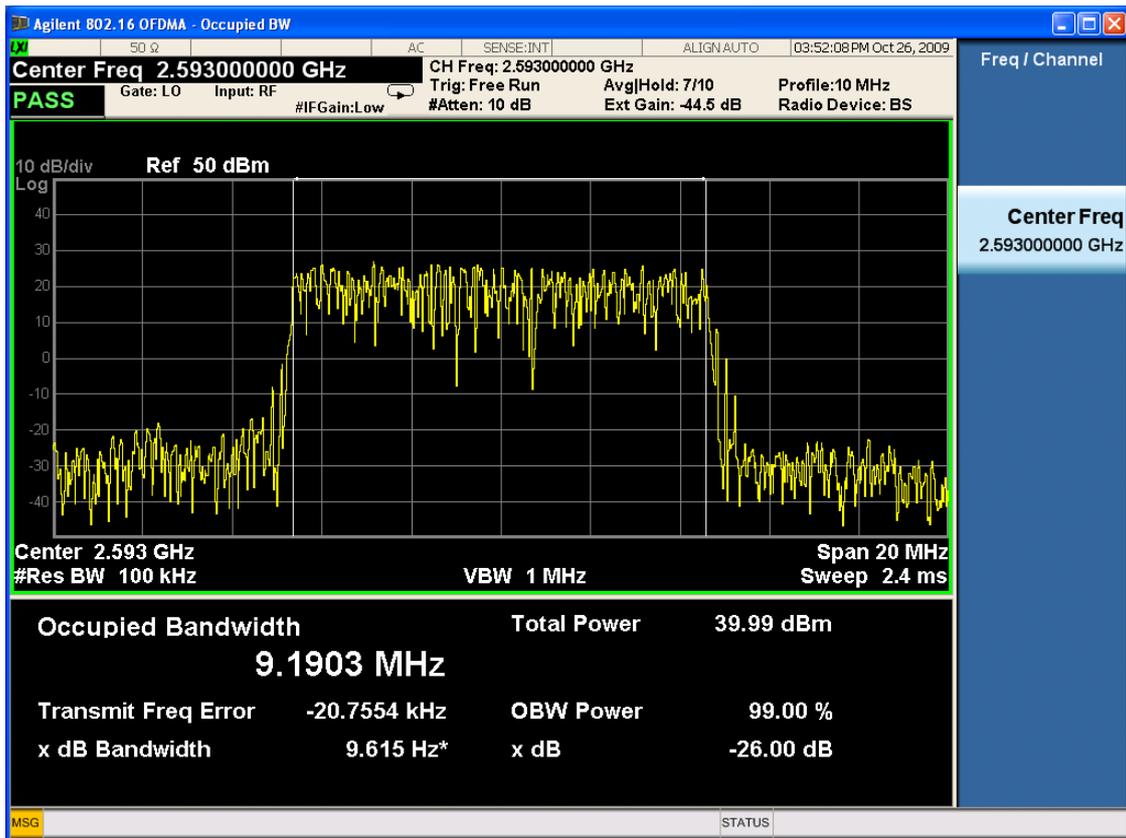
Test Result: Pass

Test Mode: Transmitting OFDMA 802.16e

Test Data

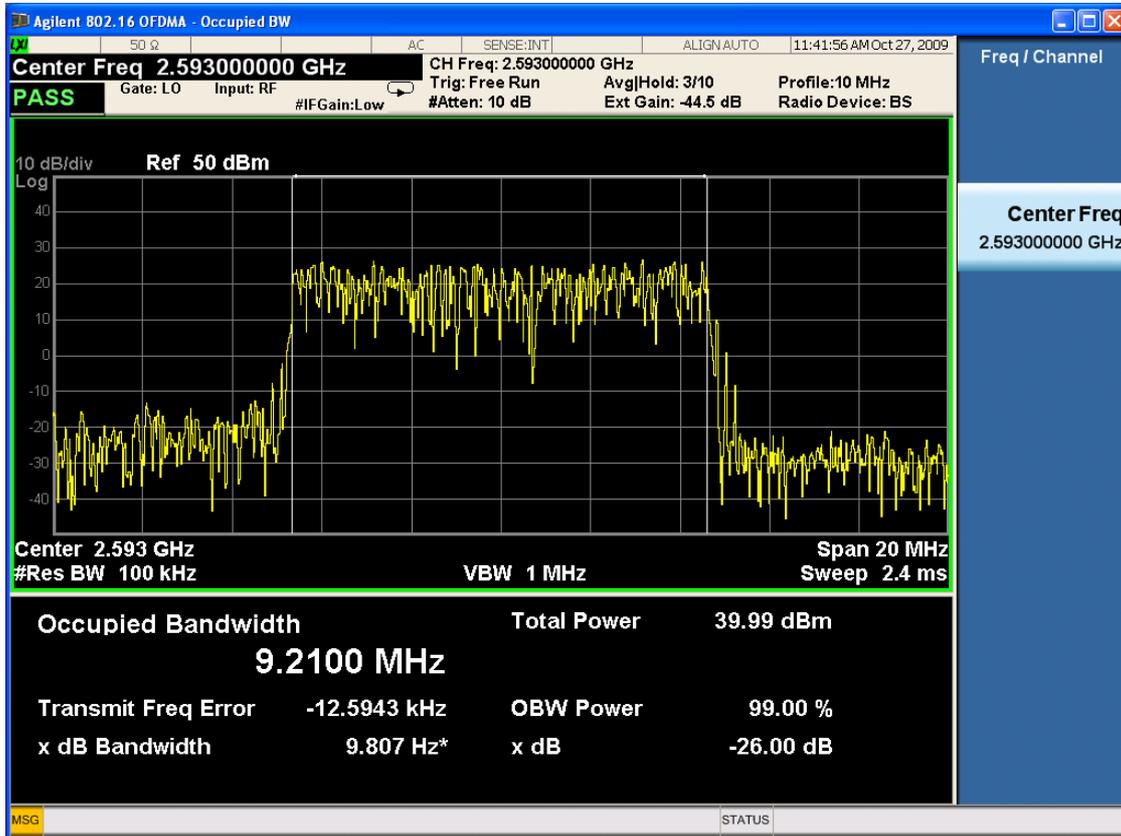
Antenna 1:
Occupied bandwidth is 10MHz
One carrier (modulation: QPSK)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.1903	<10



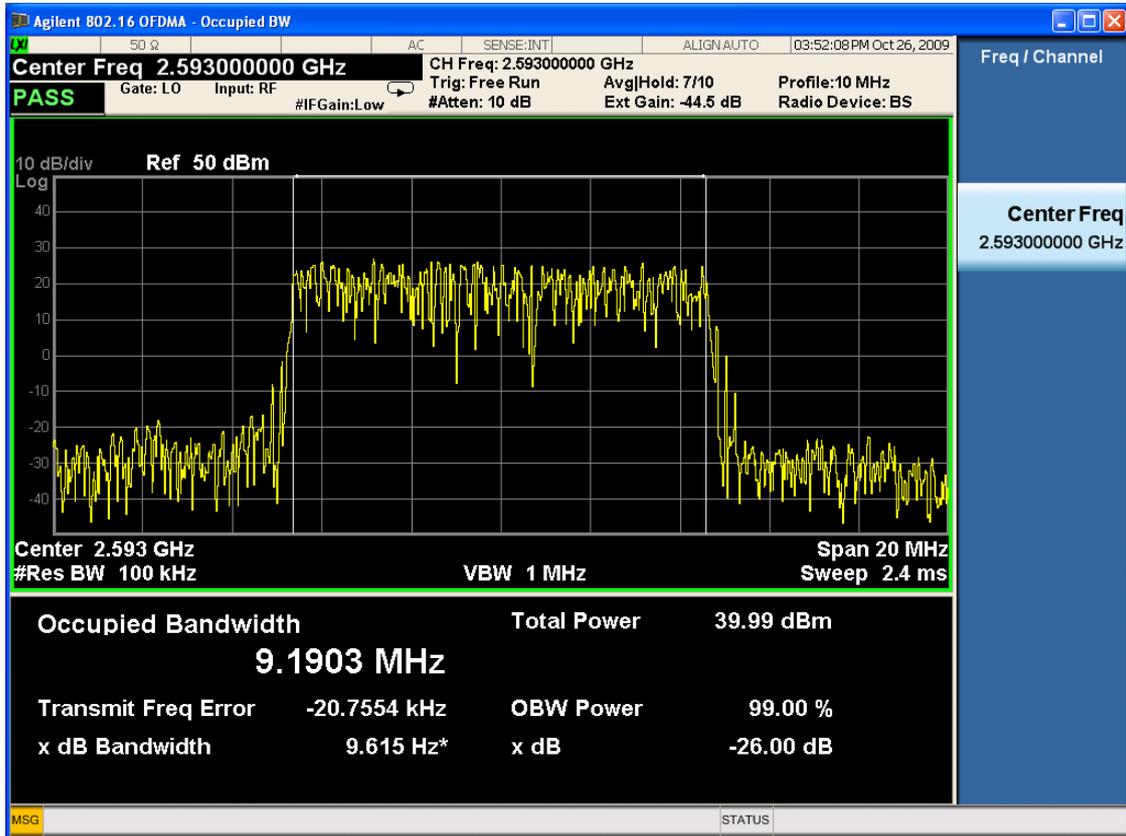
One carrier (modulation: 16QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.2100	<10



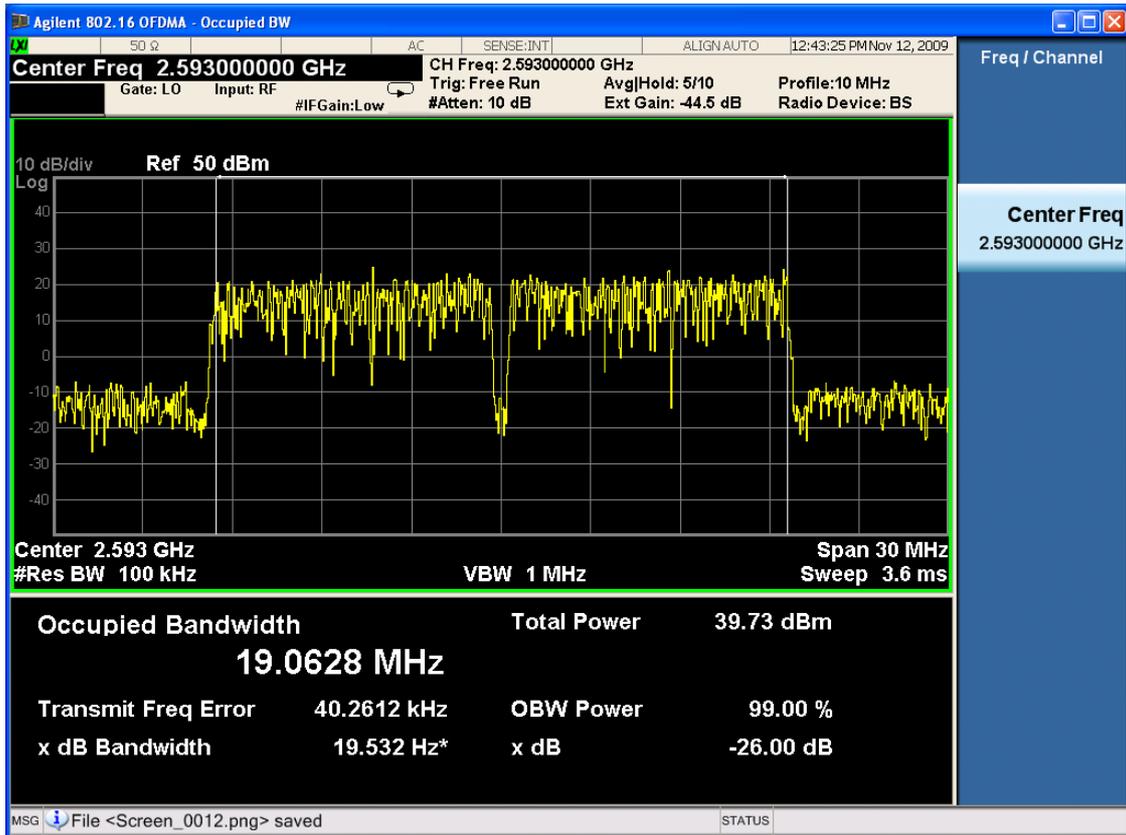
One carrier (modulation: 64QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.1903	<10



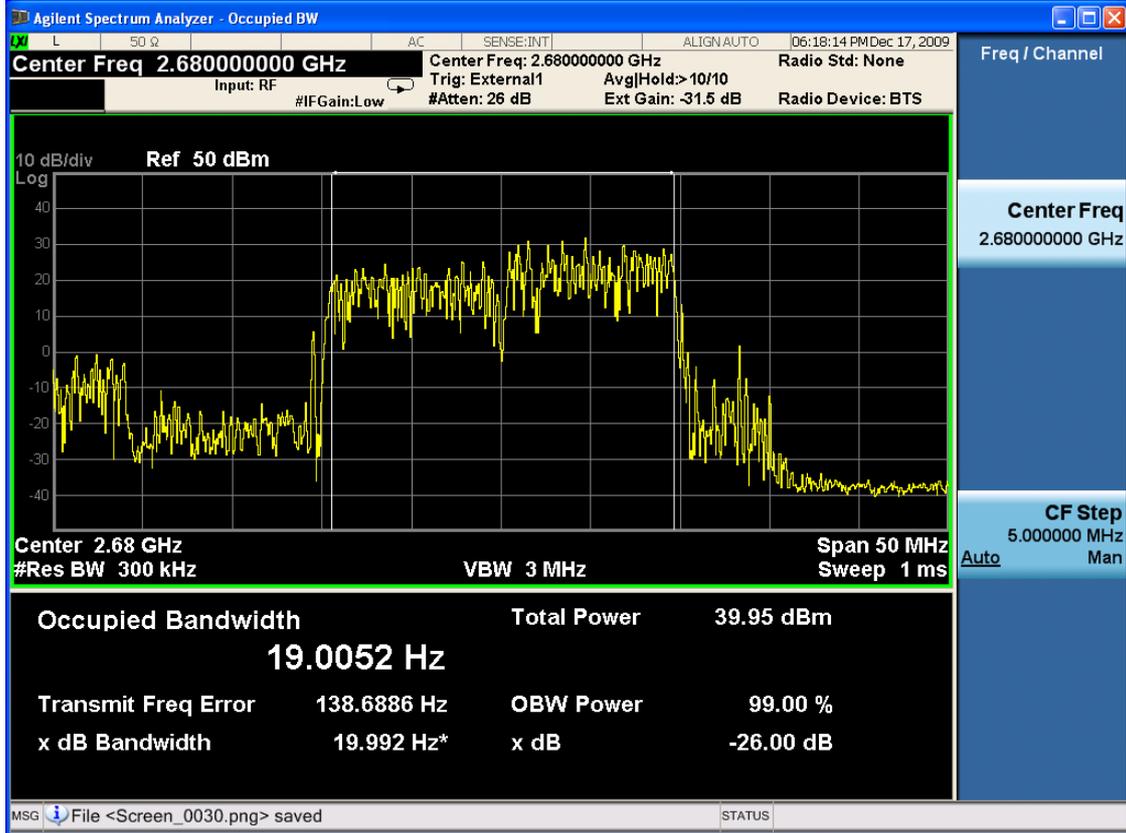
Two carriers (modulation:QPSK)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	19.1838	<20



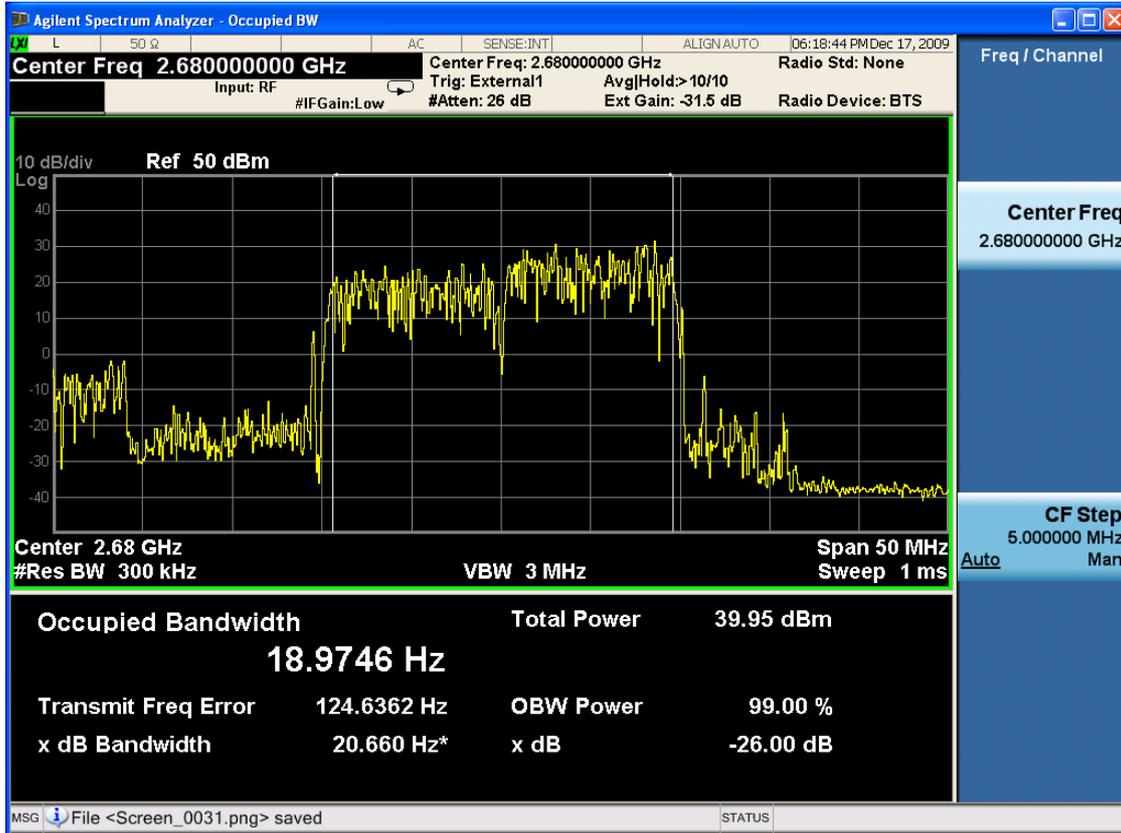
Two carriers (modulation:16QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	19.0052	<20



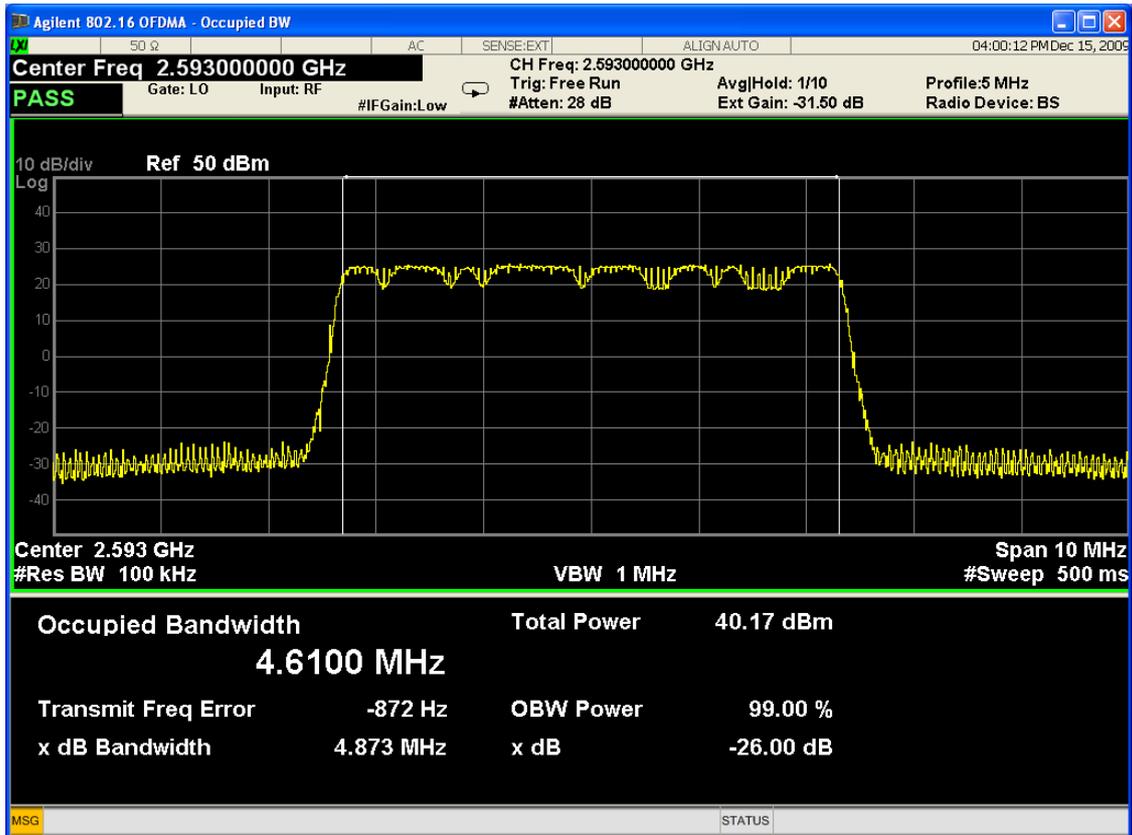
Two carriers (modulation:64QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	18.9746	<20



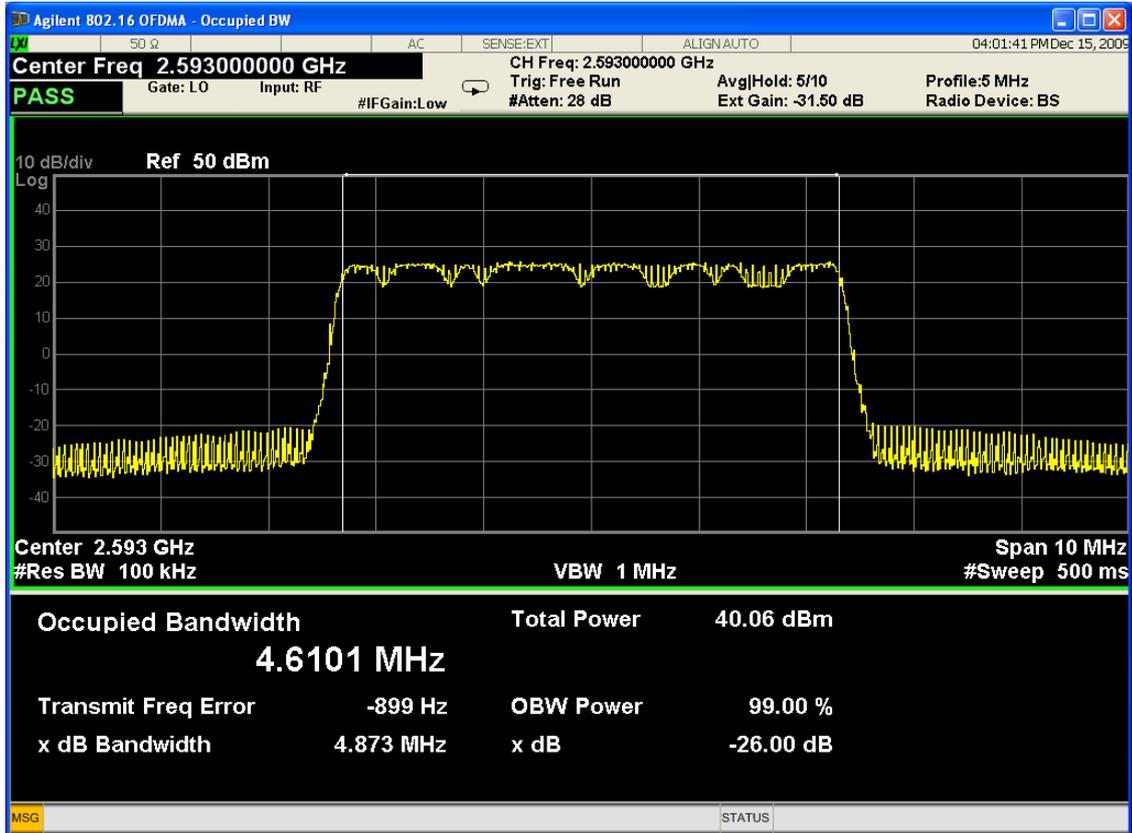
Occupied bandwidth is 5MHz
One carrier(modulation: QPSK):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6100	<5



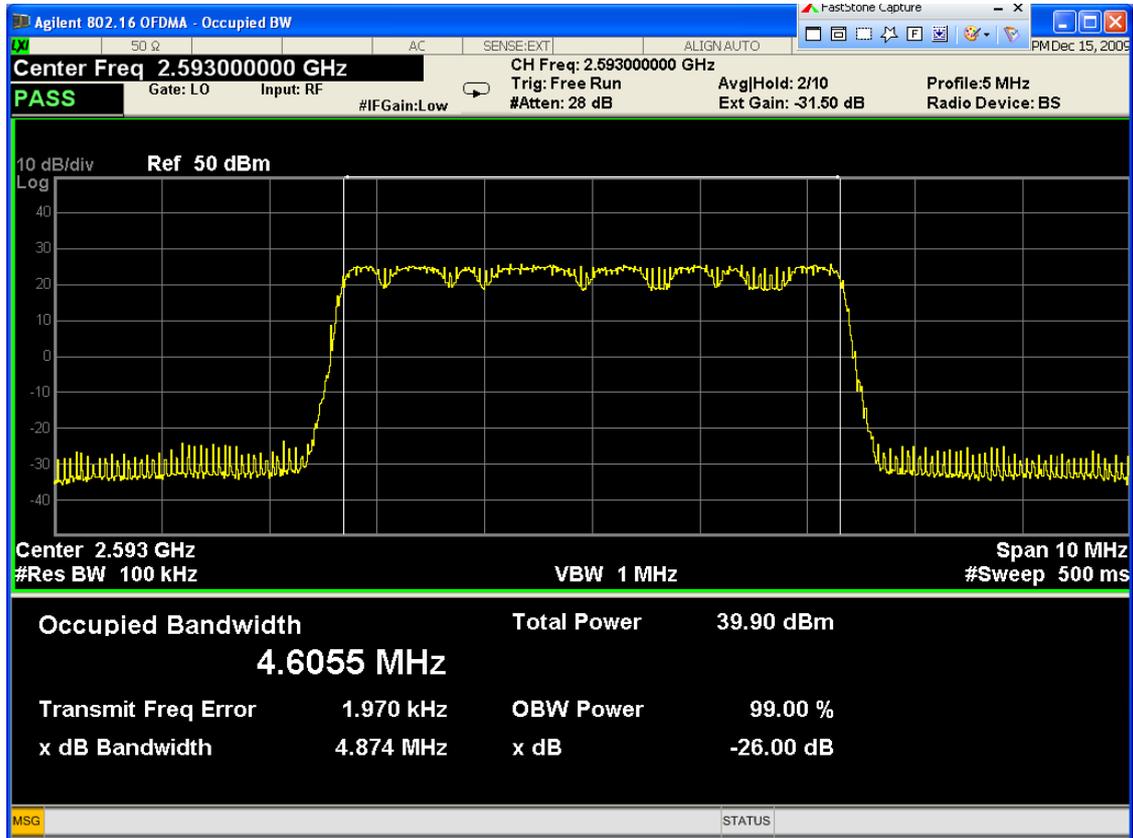
One carrier(modulation: 16QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6101	<5



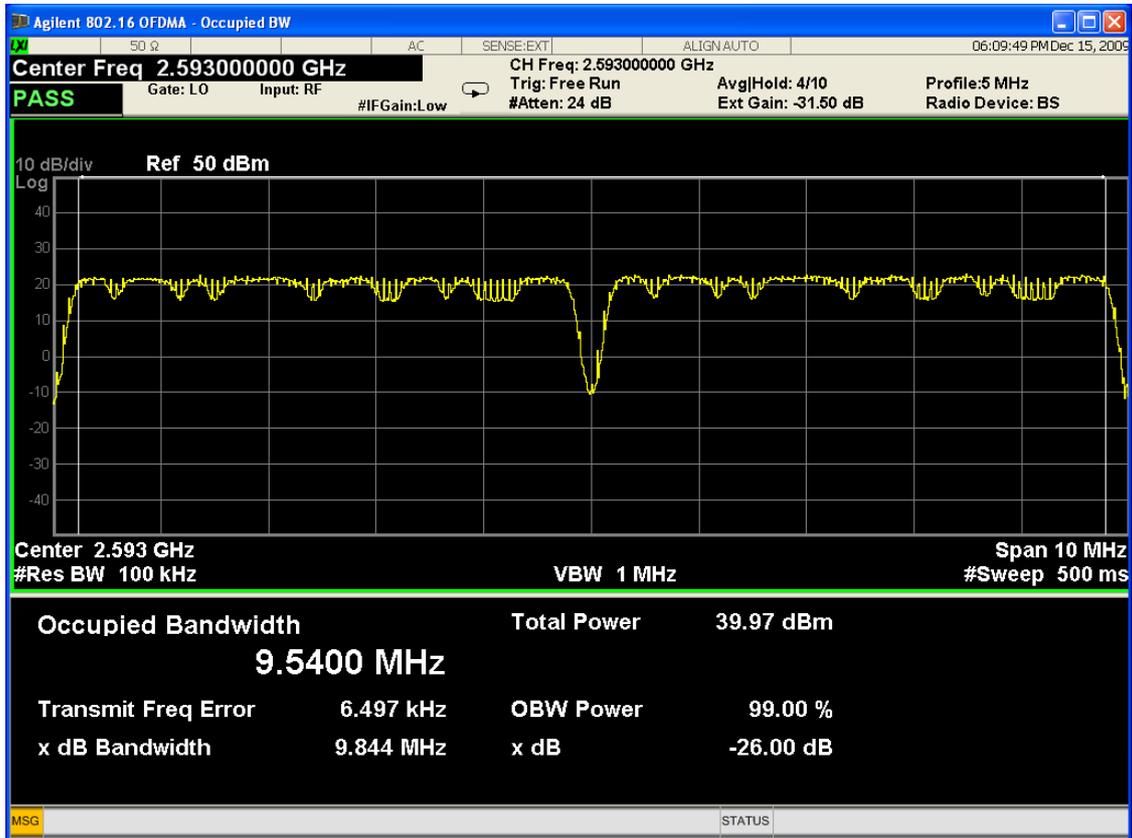
One carrier(modulation: 64QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6055	<5



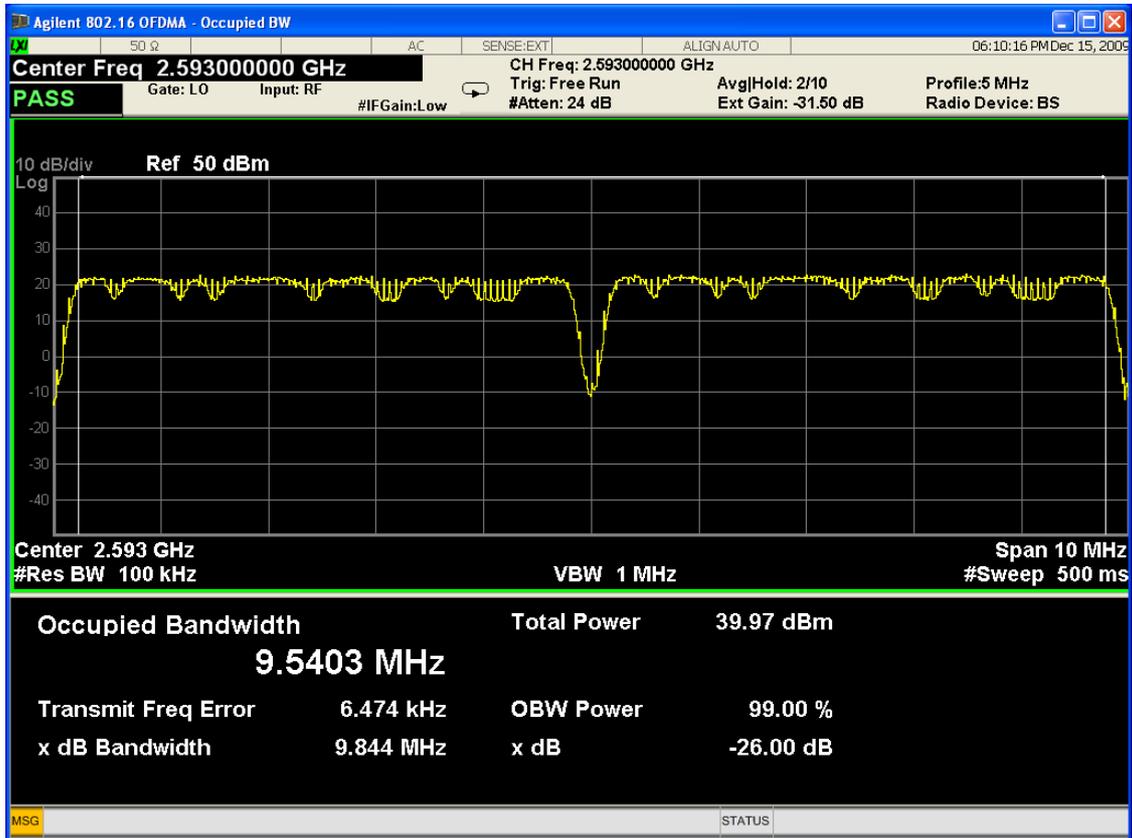
Two carrier(modulation: QPSK):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5400	<10



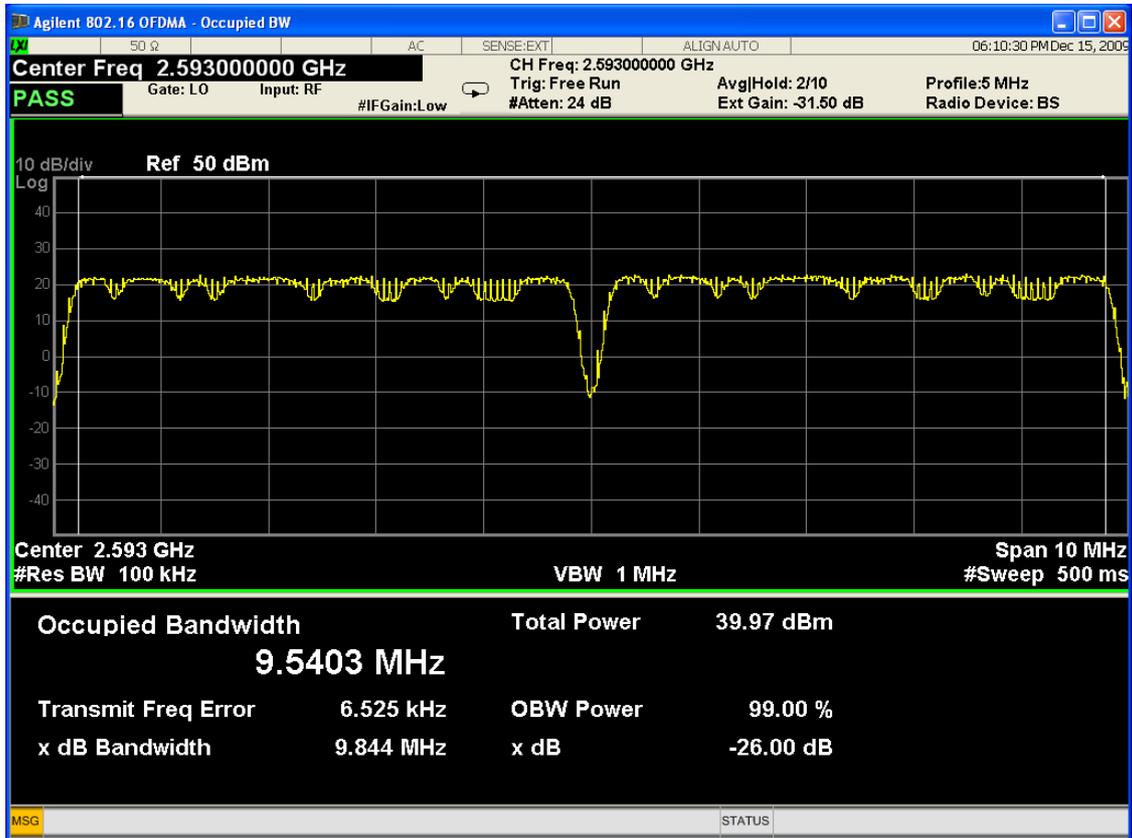
Two carriers(modulation: 16QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5403	<10



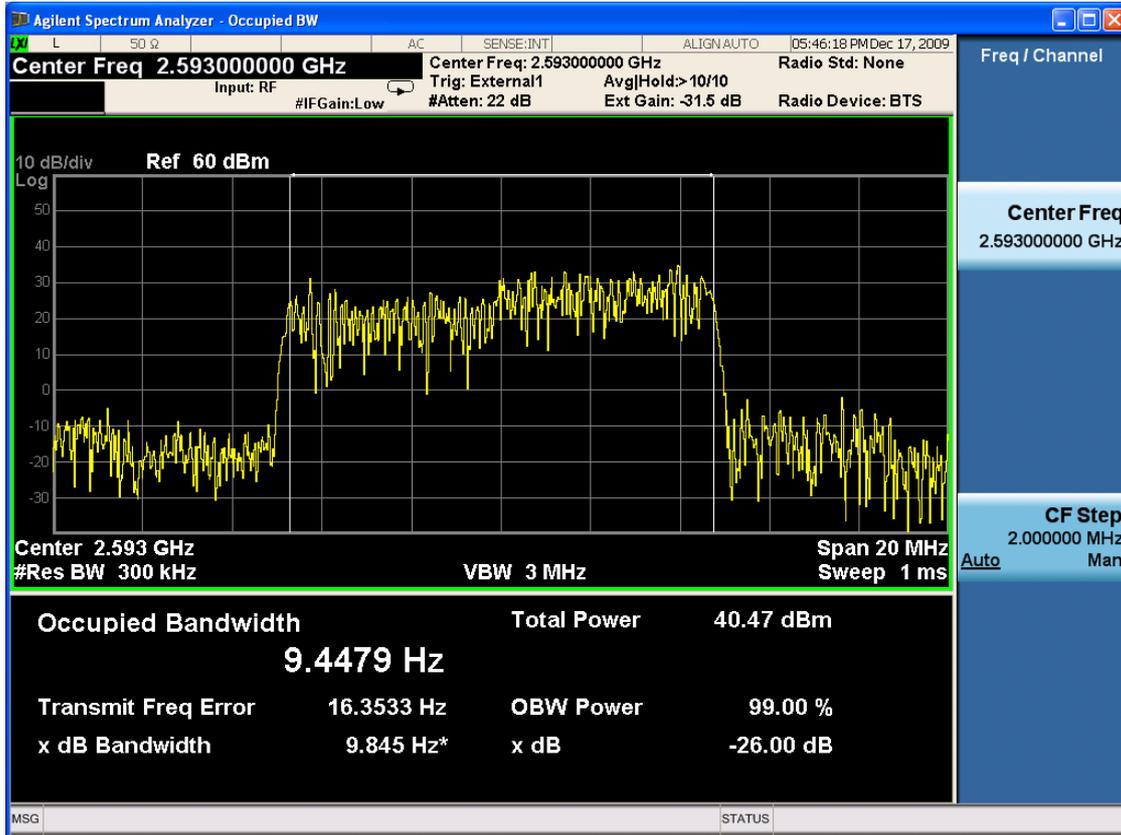
Two carriers(modulation: 64QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5403	<10



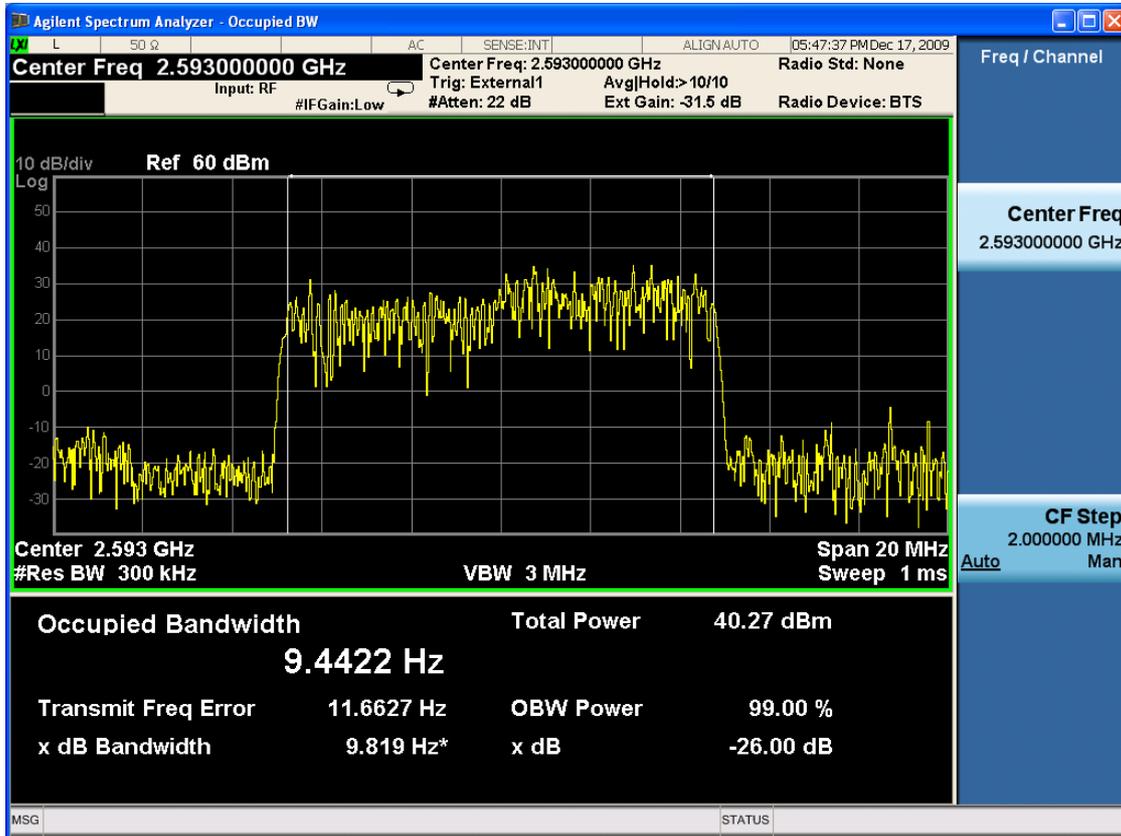
Antenna 2:
Occupied bandwidth is 10MHz
One carrier (modulation: QPSK)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.4479	<10



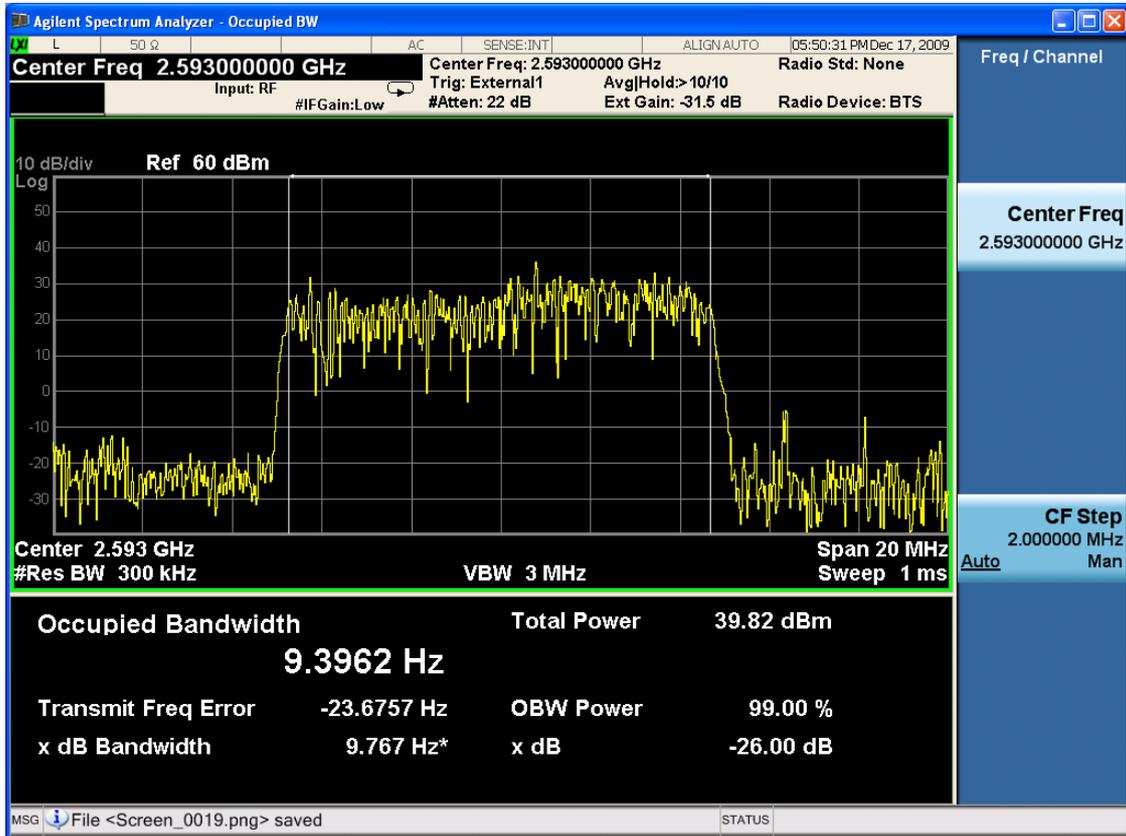
One carrier (modulation: 16QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.4422	<10



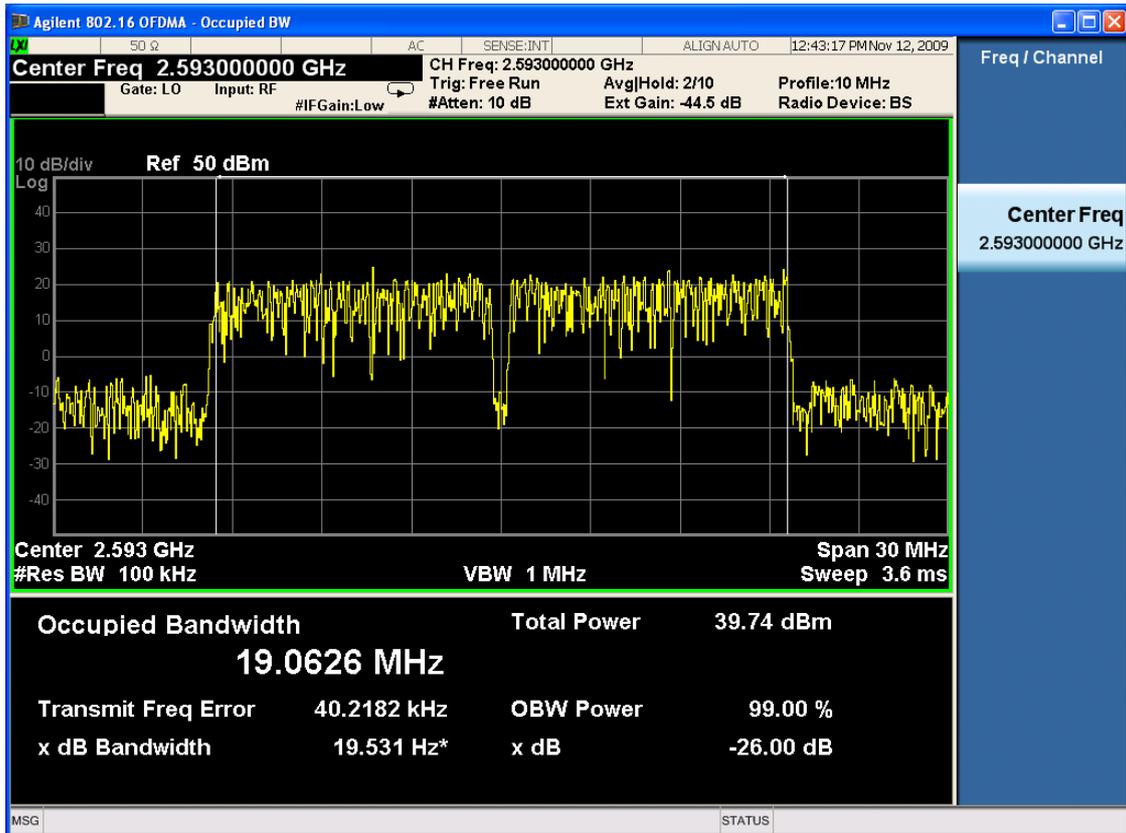
One carrier (modulation: 64QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.3962	<10



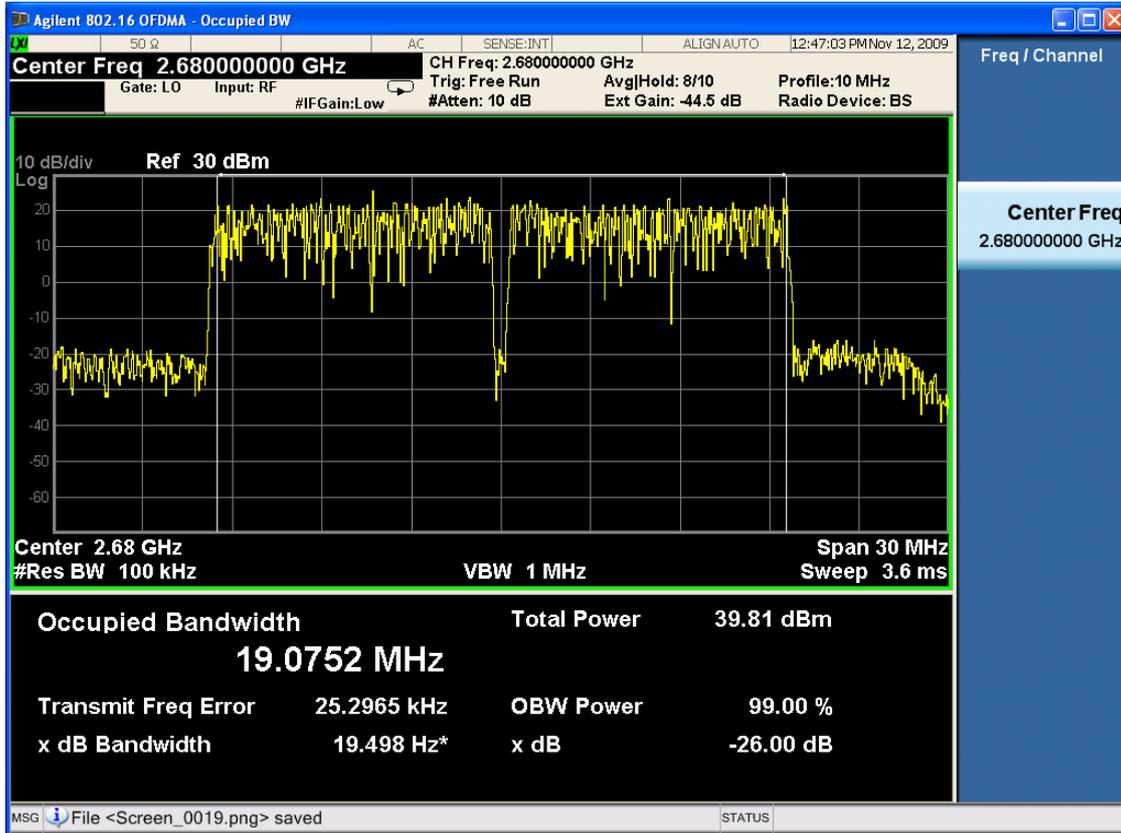
Two carriers (modulation:QPSK)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	19.0626	<20



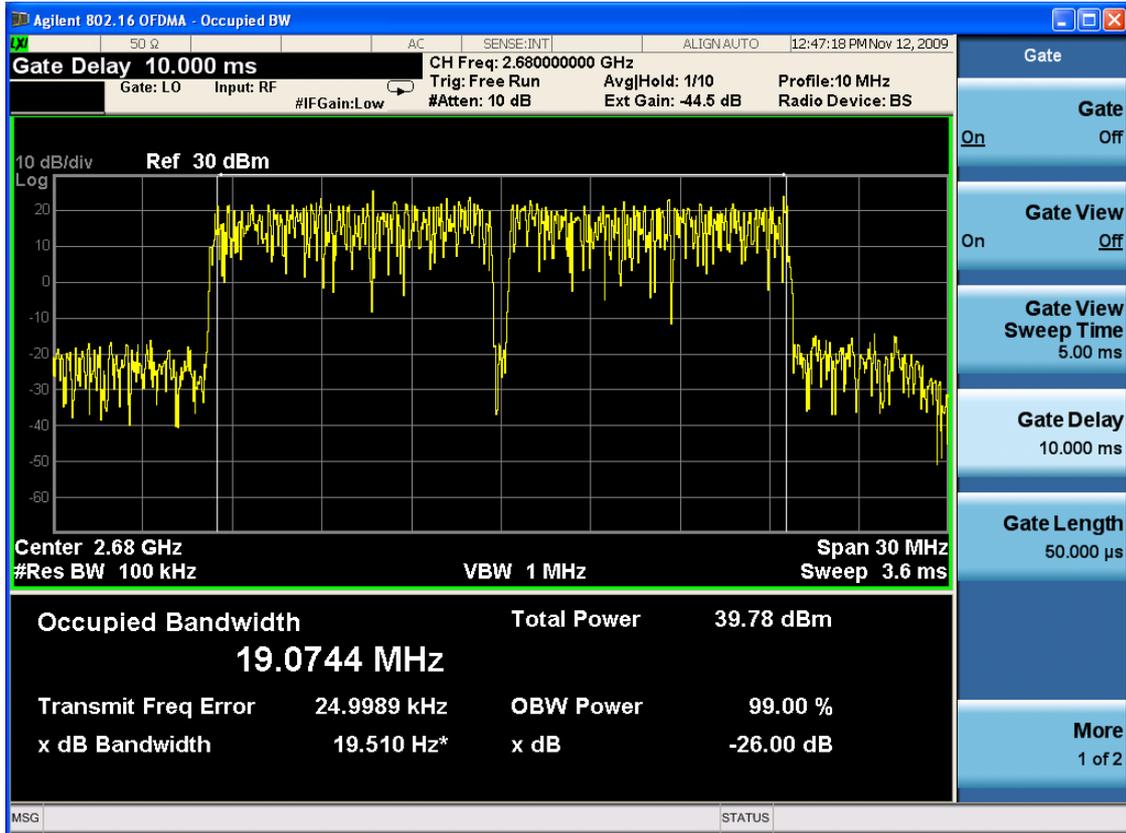
Two carriers (modulation:16QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	19.0752	<20



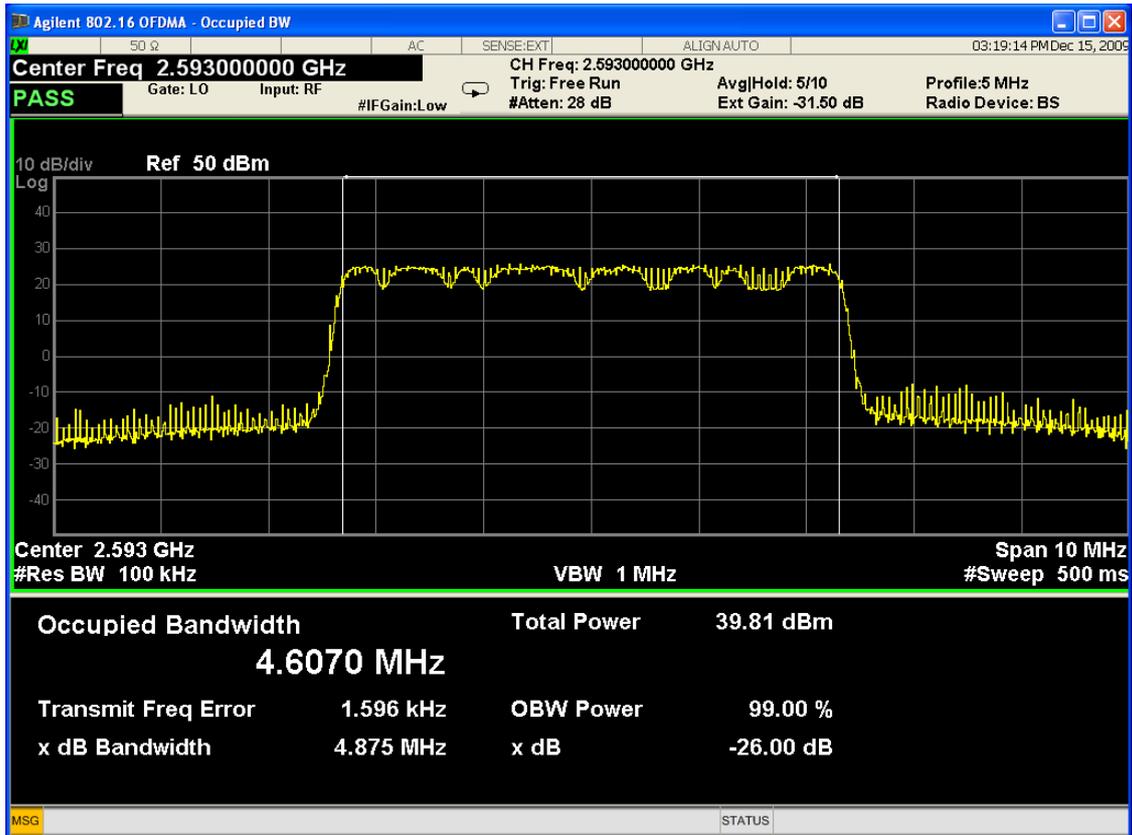
Two carriers (modulation:64QAM)

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	19.0744	<20



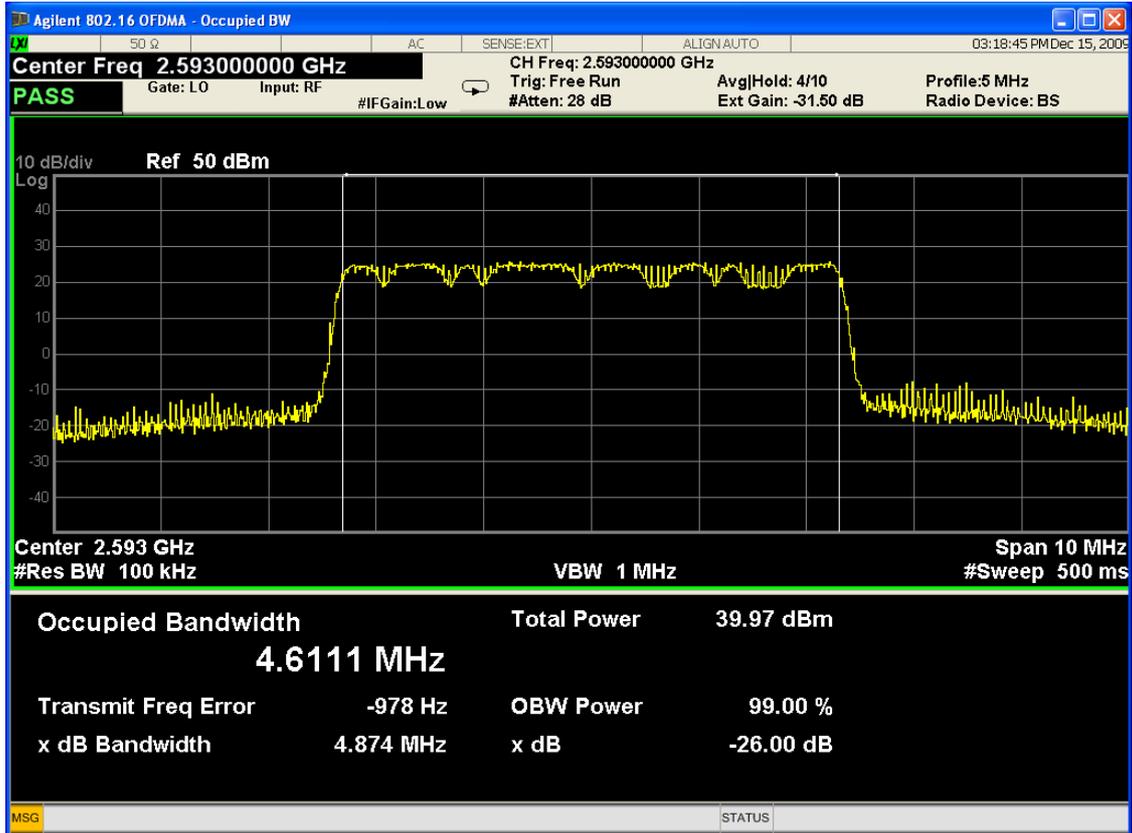
Occupied bandwidth is 5MHz
One carrier(modulation: QPSK):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6070	<5



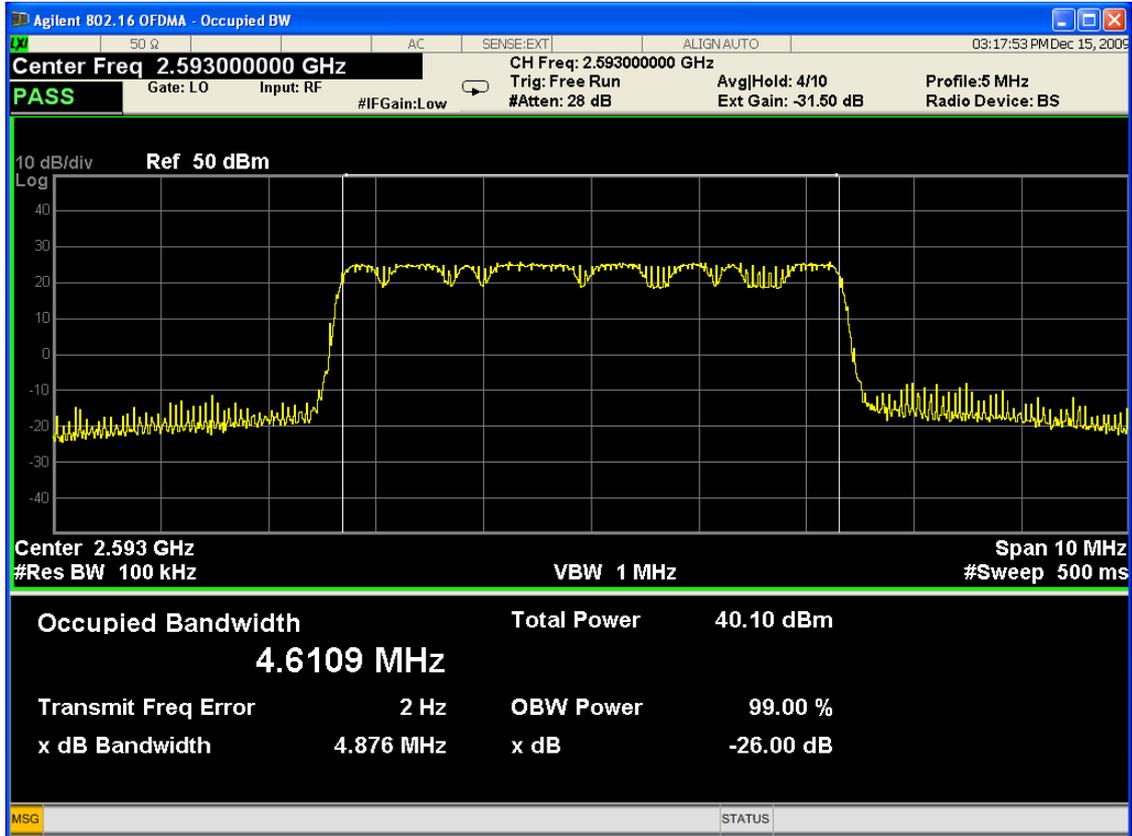
One carrier(modulation: 16QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6111	<5



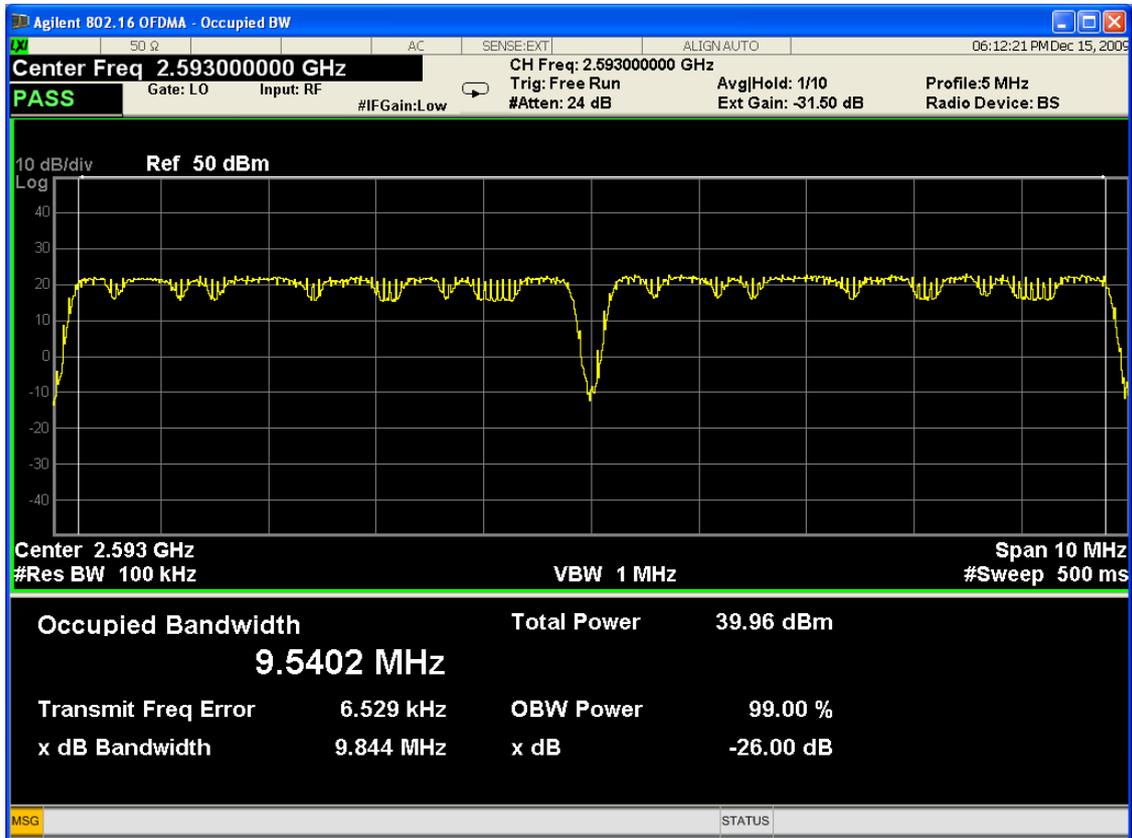
One carrier (modulation: 64QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	4.6109	<5



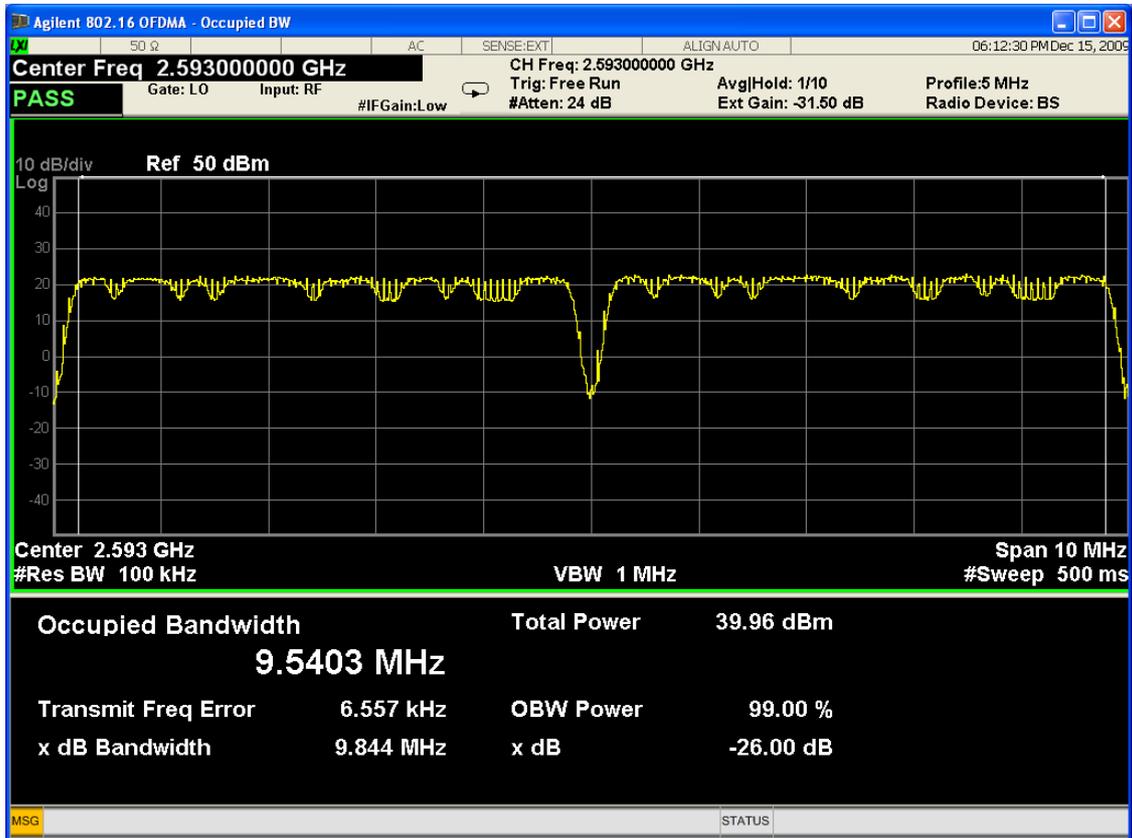
Two carriers (modulation: QPSK):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5402	<10



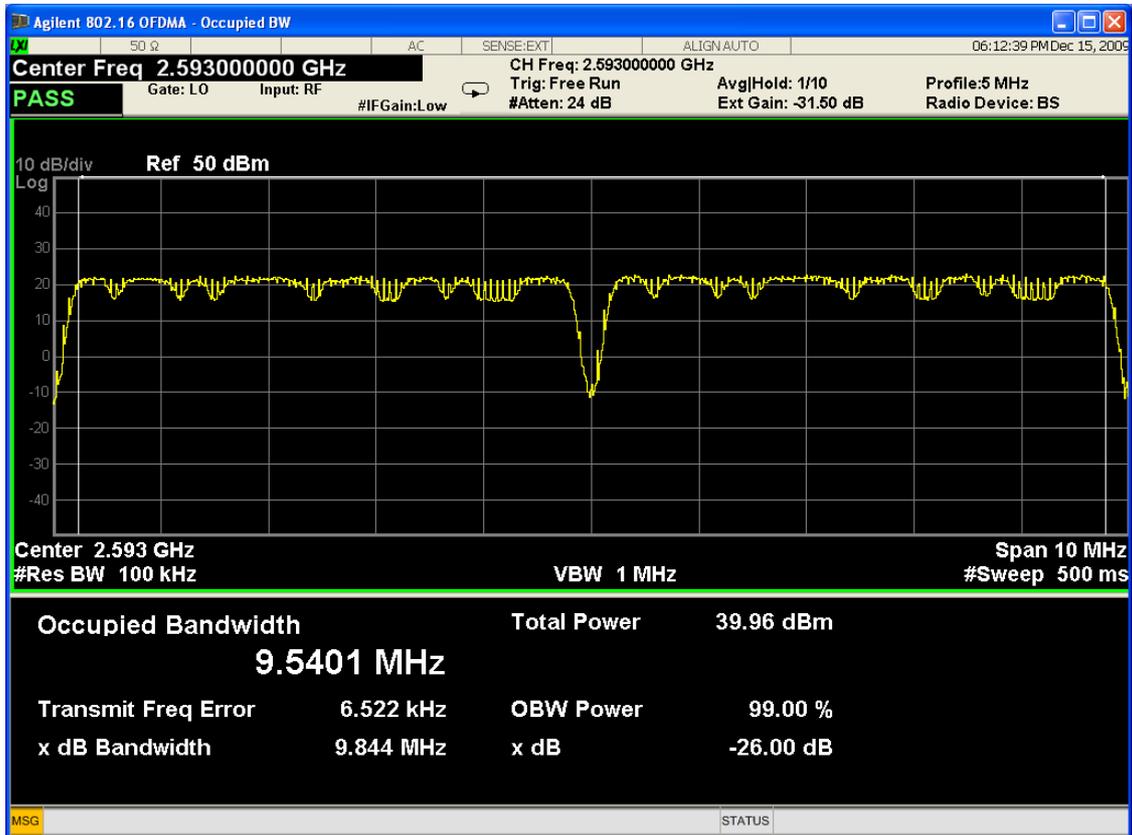
Two carriers (modulation: 16QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5403	<10



Two carriers (modulation: 64QAM):

Frequency (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
2593	9.5401	<10



10 §27.53-BAND EDGES

Applicable Standard

According to §27.53, 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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	N/A	2009-4-10	2010-4-9
YLT	SN-SJ-150 40dB Attenuator	SN-SJ-150	N/A	N/A	N/A
SWA	SWA Packard RF Cable	RFC1/07-1050	N/A	N/A	N/A

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.

Environmental Conditions

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

The testing was performed by Wei bin , during Oct 27, 2009 to Dec 19,2009

Test Result: Pass

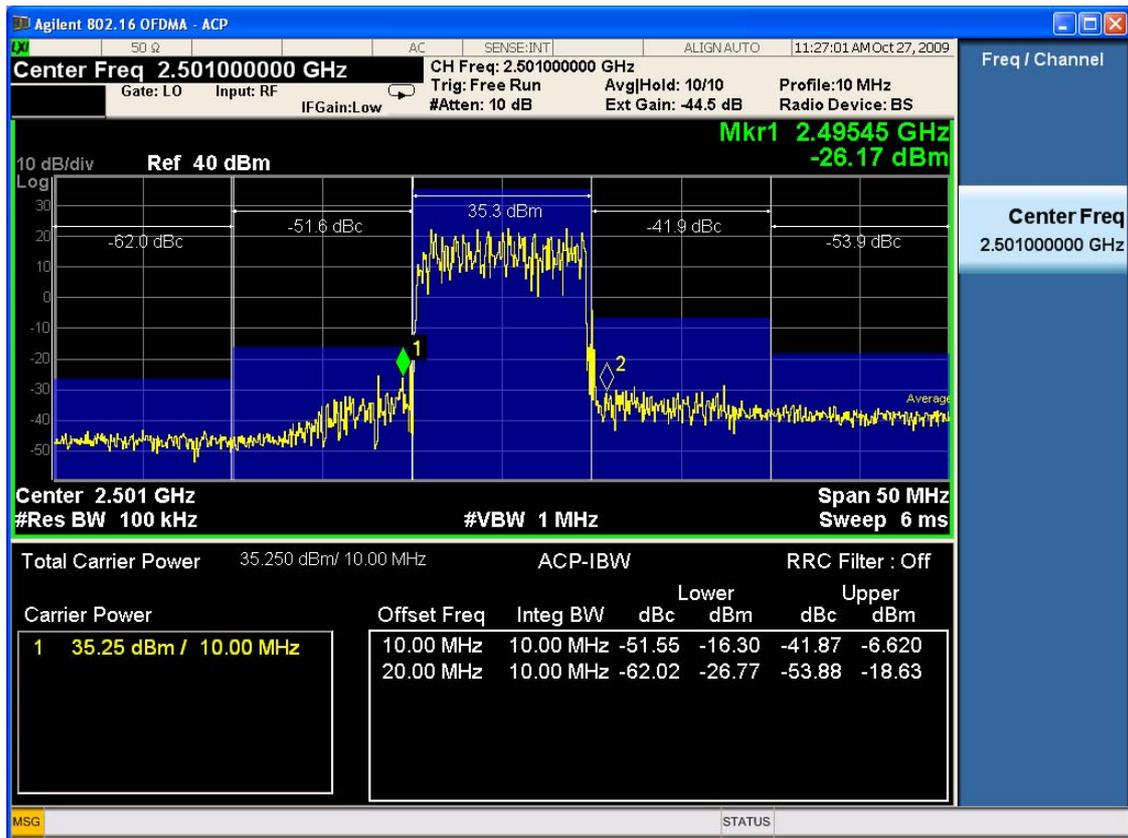
Test Mode: Transmitting OFDMA 802.16e

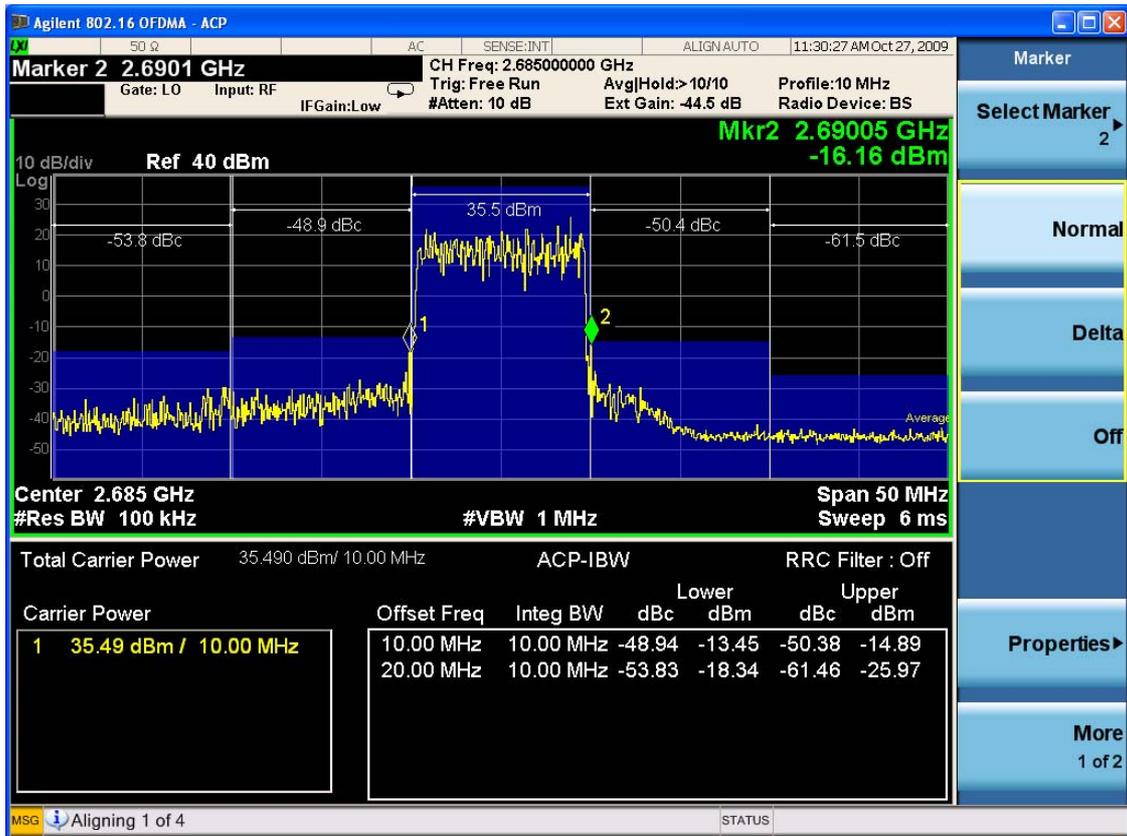
Test Data

Antenna 1:

One carrier(modulation is QPSK, Occupied bandwidth is 10MHz)

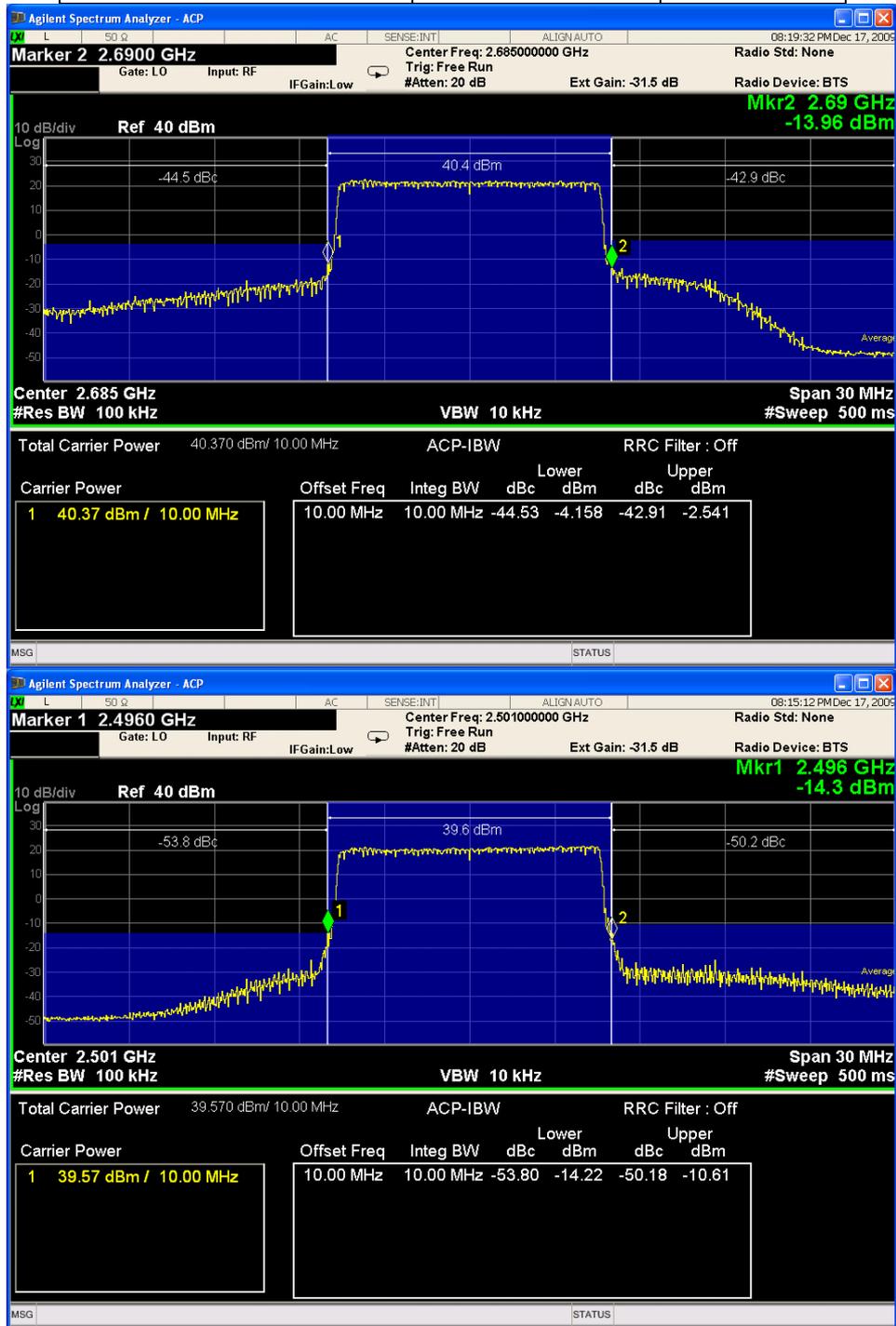
Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-26.17/-16.16	-13.00





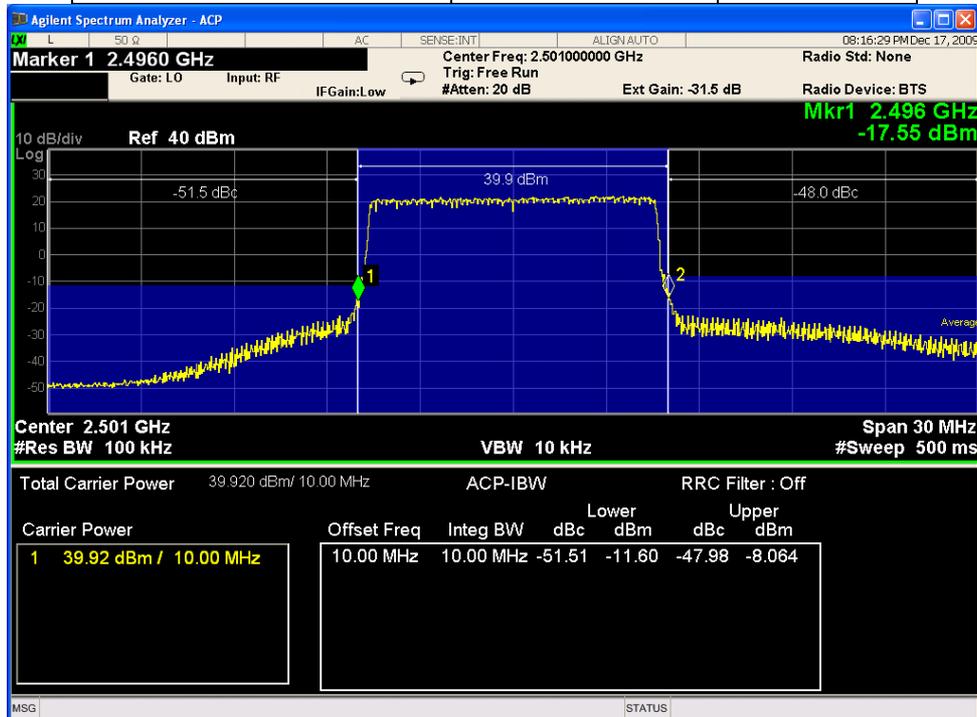
One carrier(modulation is 16QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-13.96/-14.3	-13.00



One carrier(modulation is 64QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-17.55/-13.87	-13.00



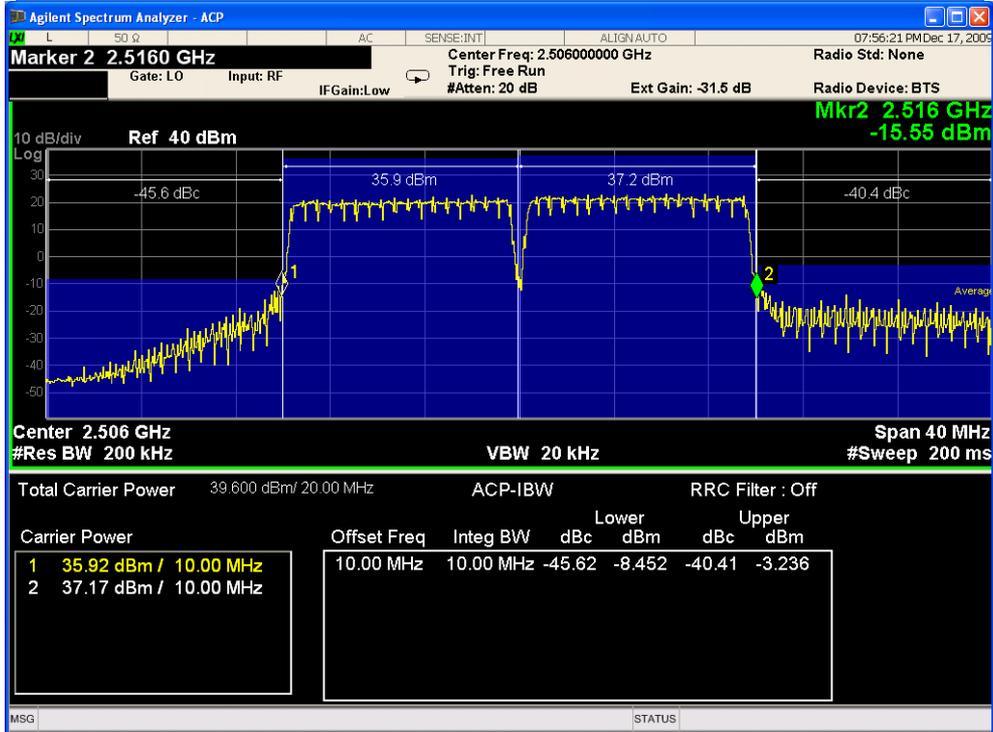
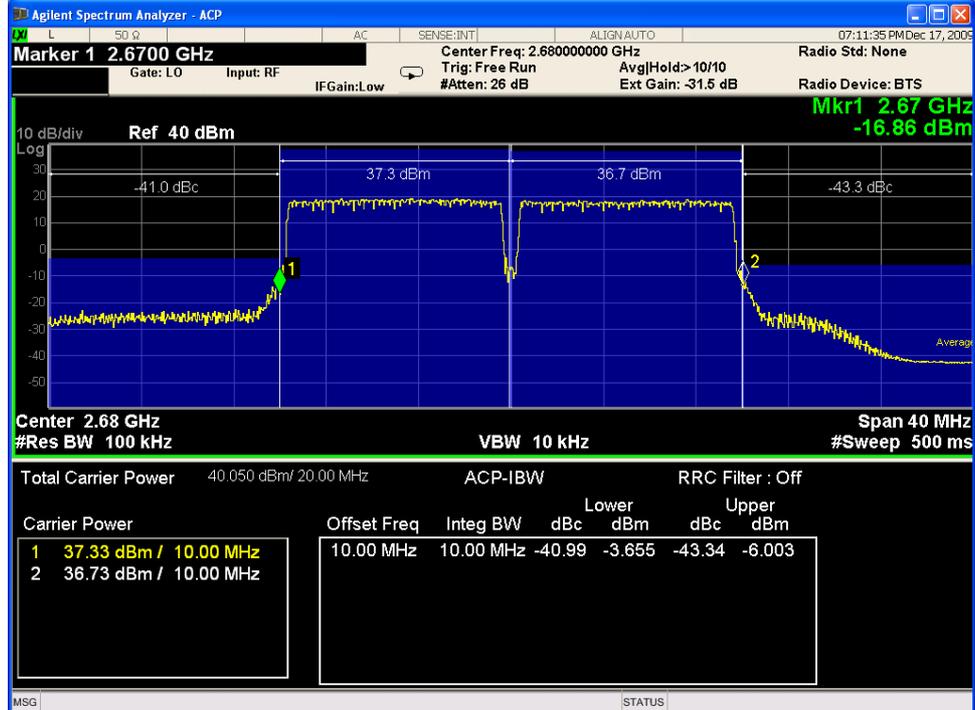
Two carriers (modulation is QPSK, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-21.91/-20.69	-13.00



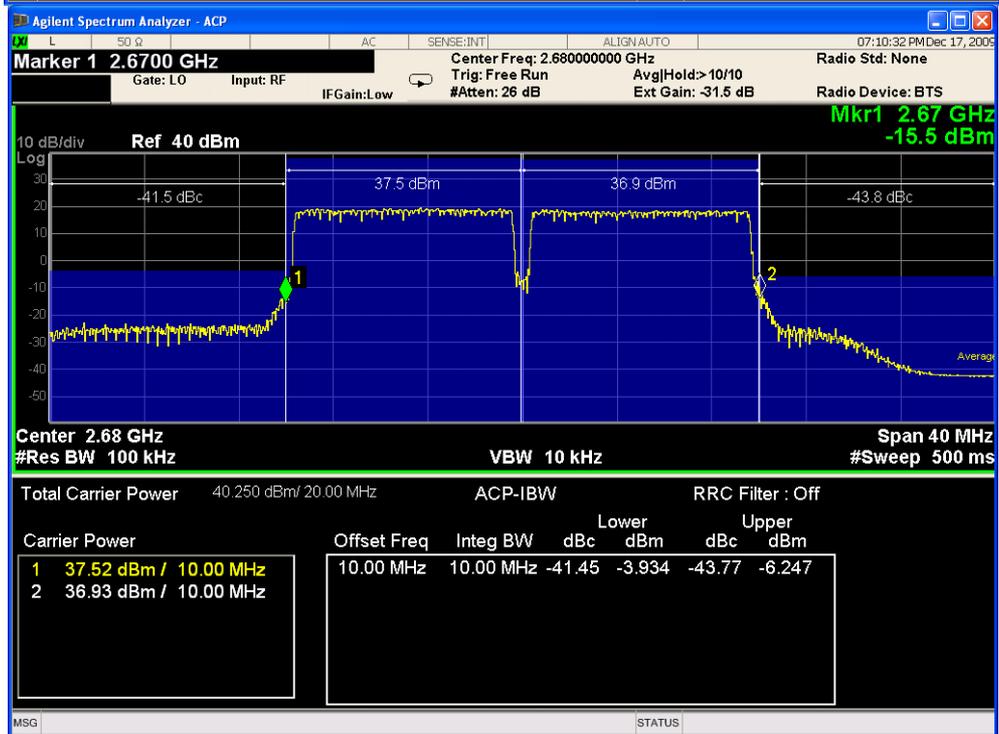
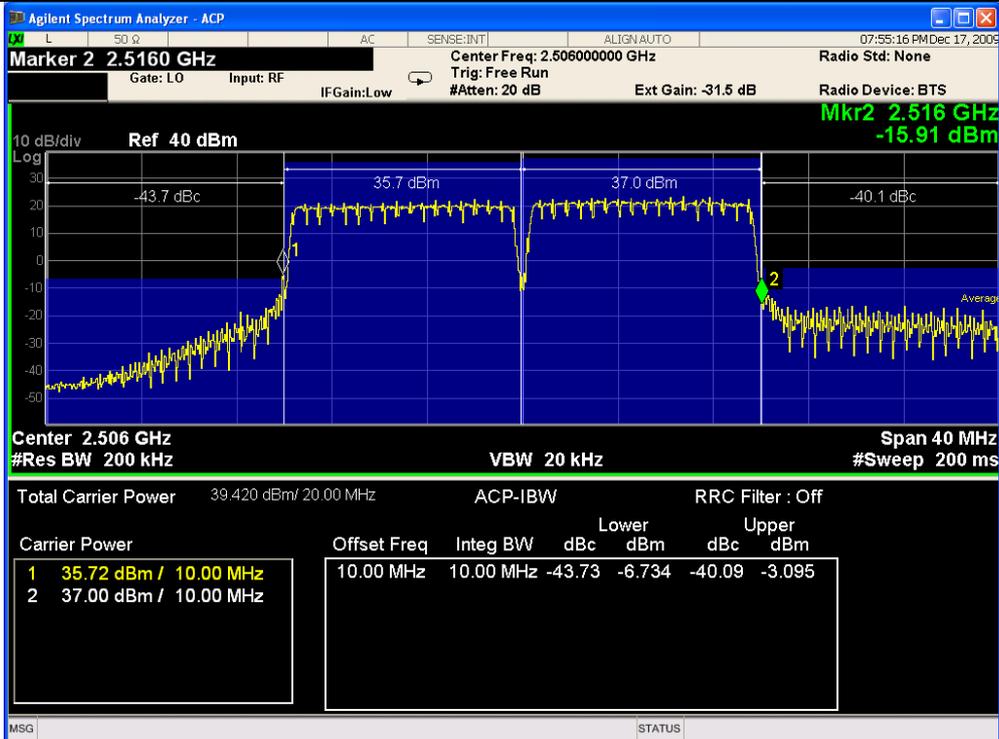
Two carriers (modulation is 16QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-15.55/-16.86	-13.00



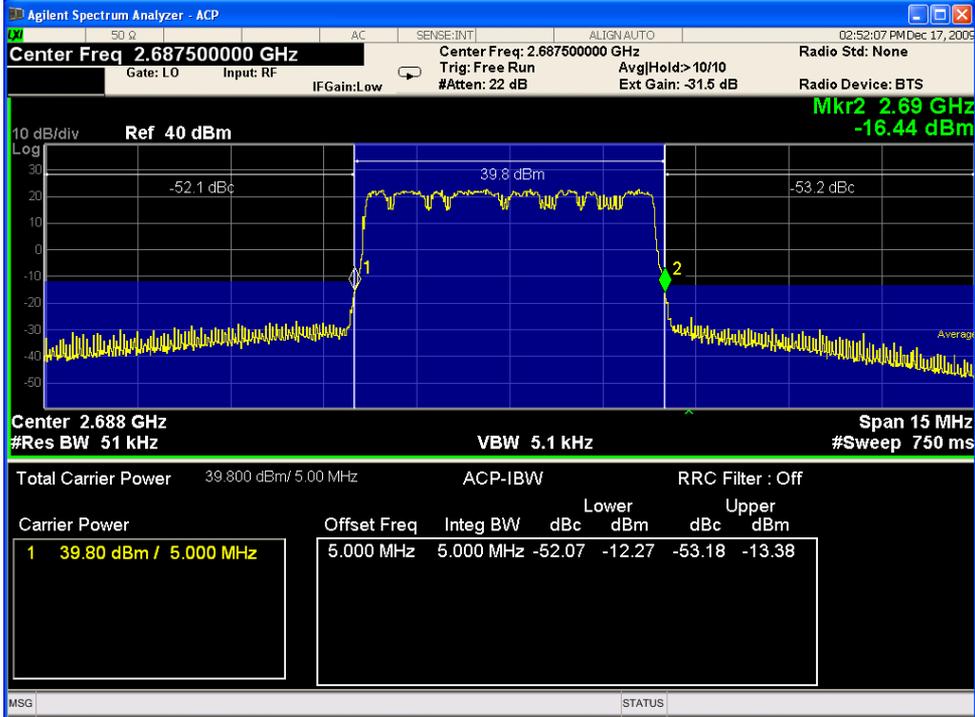
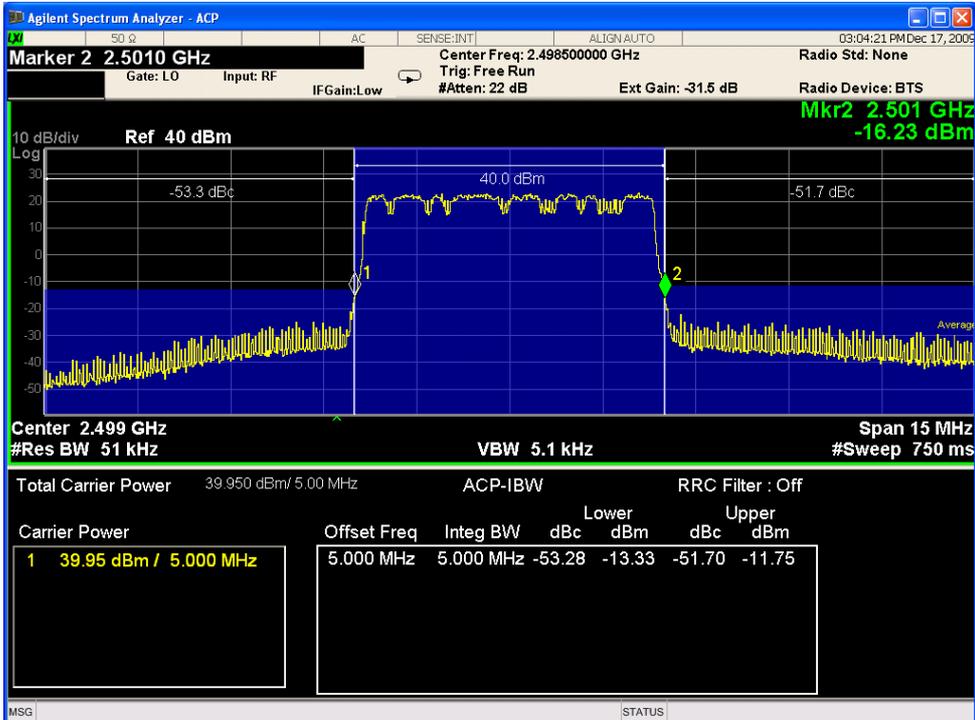
Two carriers (modulation is 64QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-15.91/-15.5	-13.00



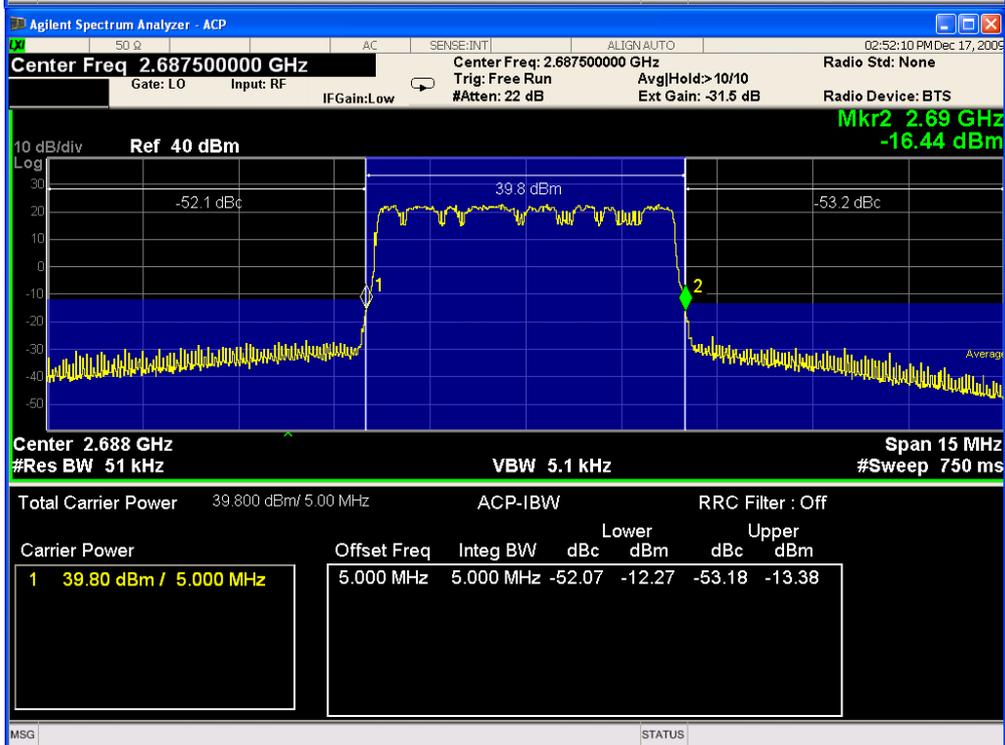
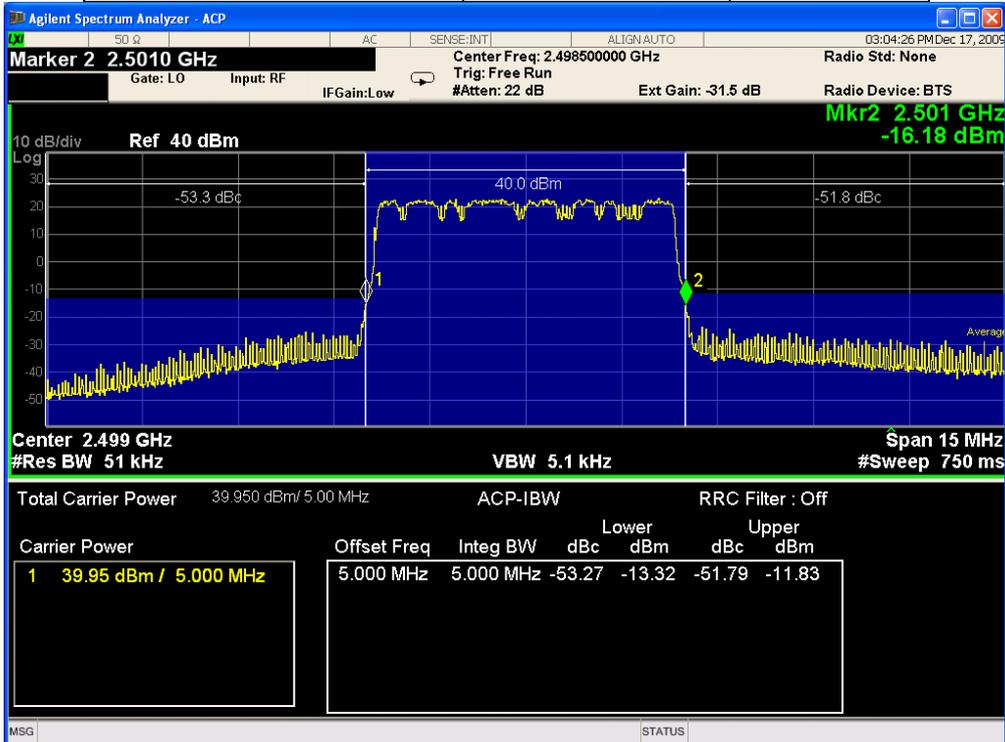
One carrier(modulation is QPSK, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.23/-16.44	-13.00



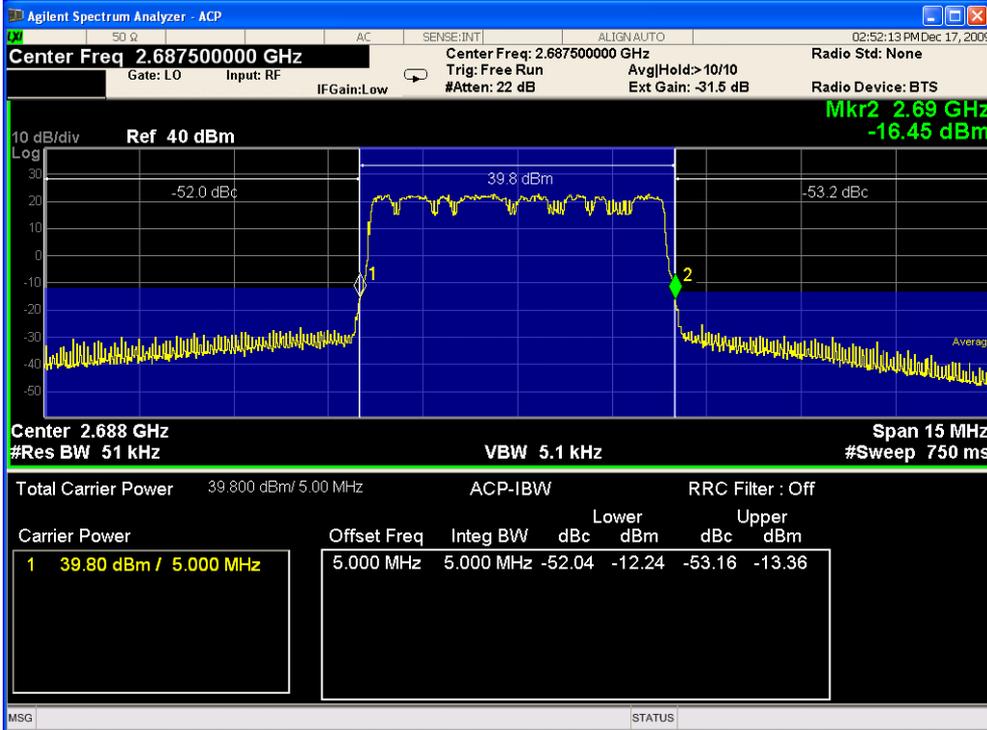
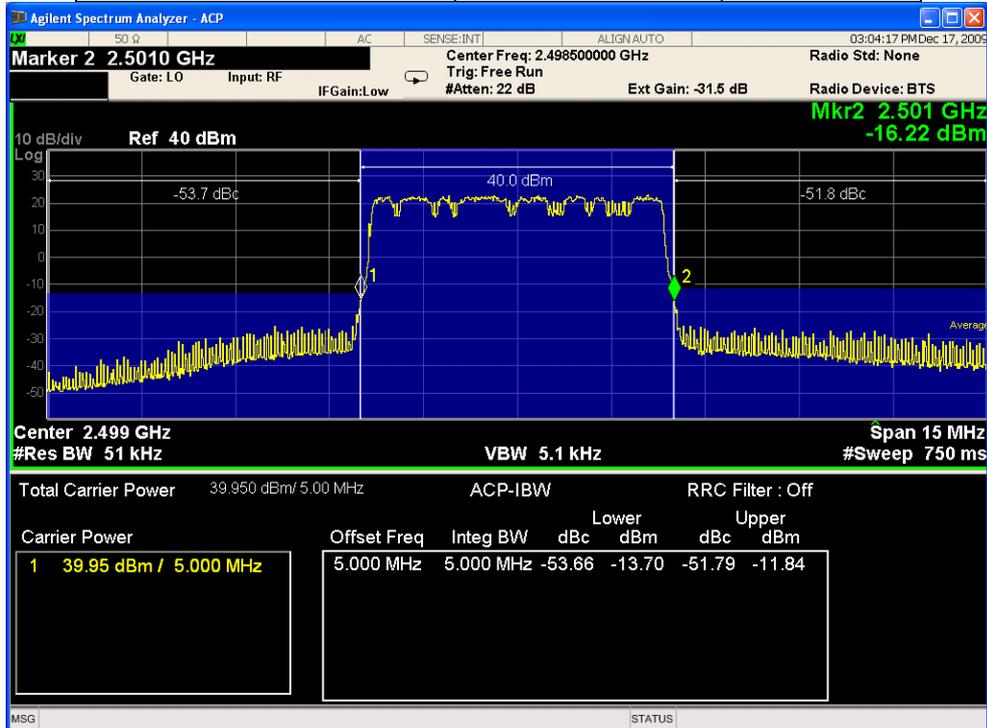
One carrier(modulation is 16QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.18/-16.44	-13.00



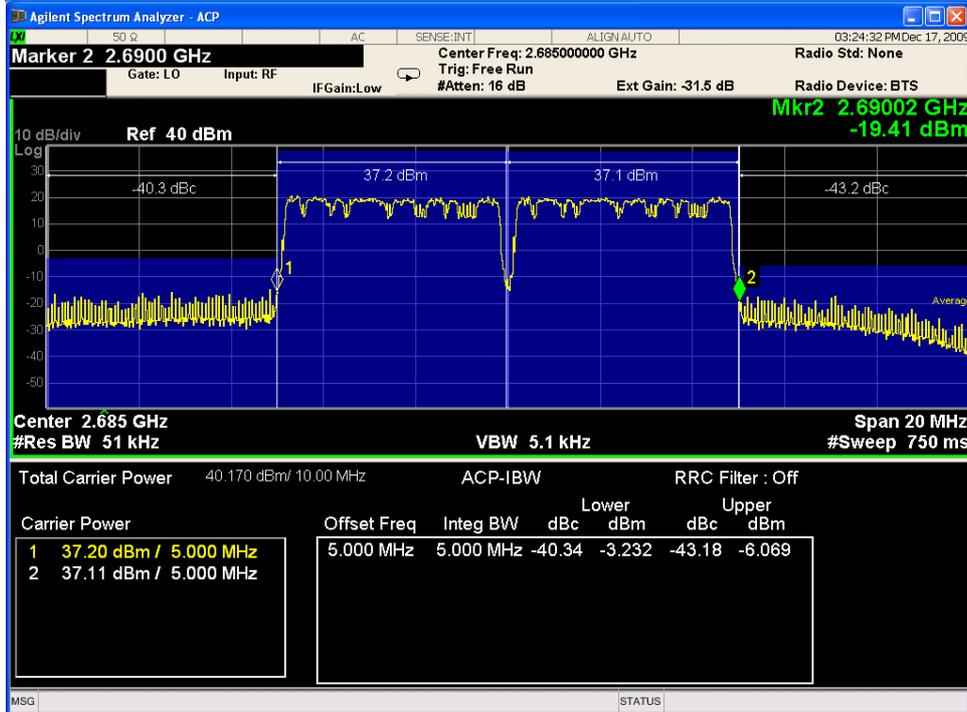
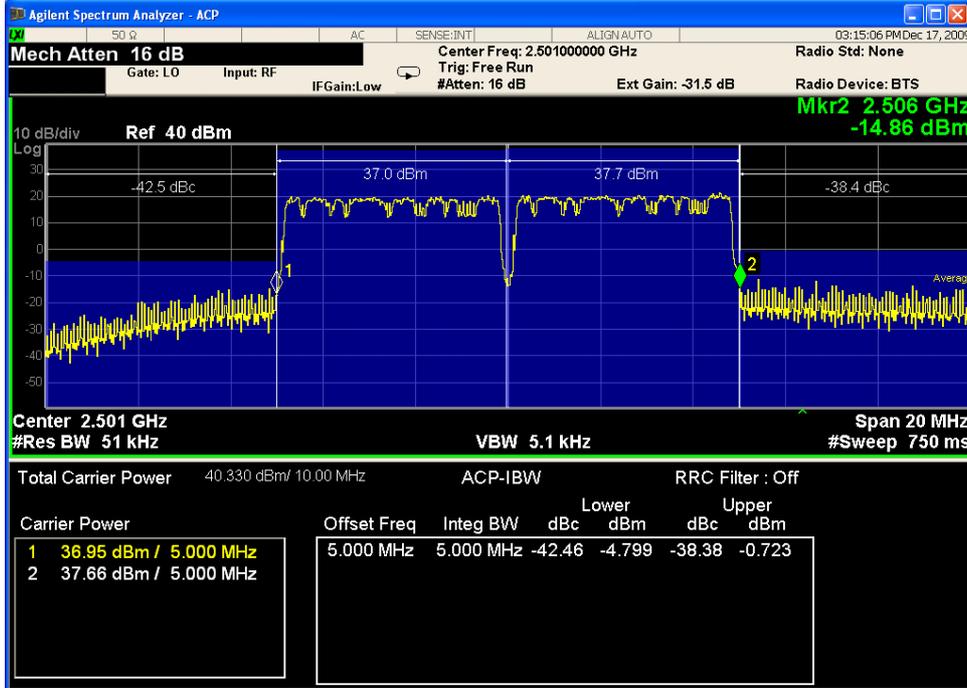
One carrier(modulation is 64QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.22/-16.45	-13.00



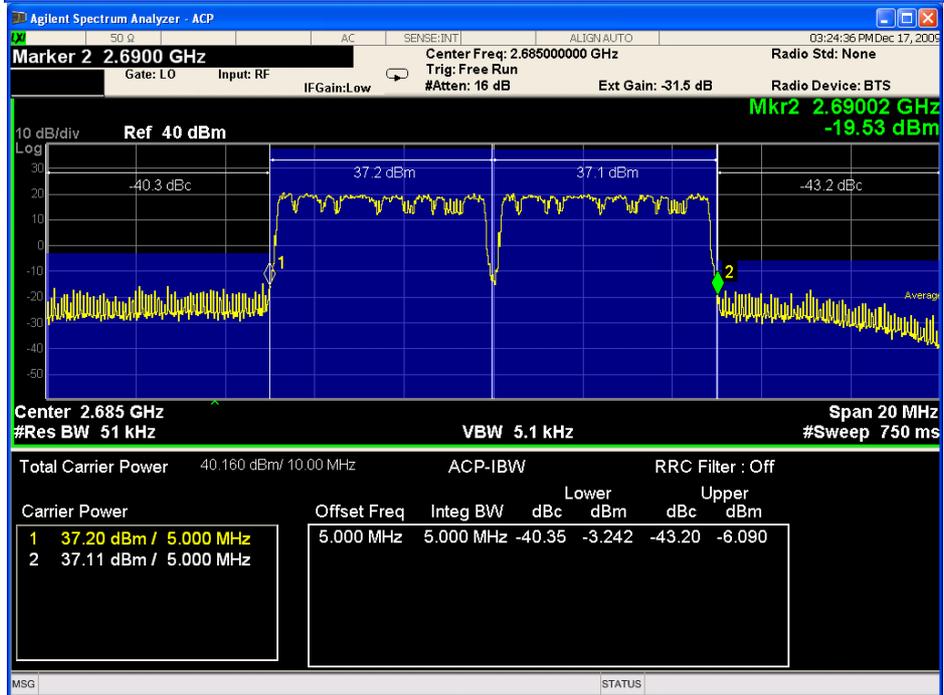
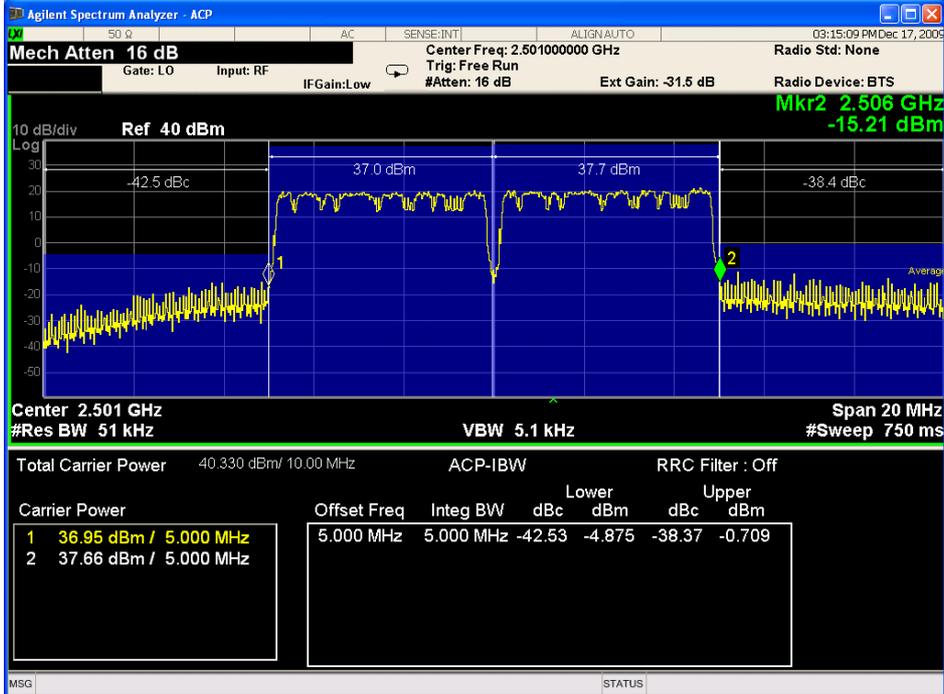
Two carriers (modulation is QPSK, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-14.86/-19.41	-13.00



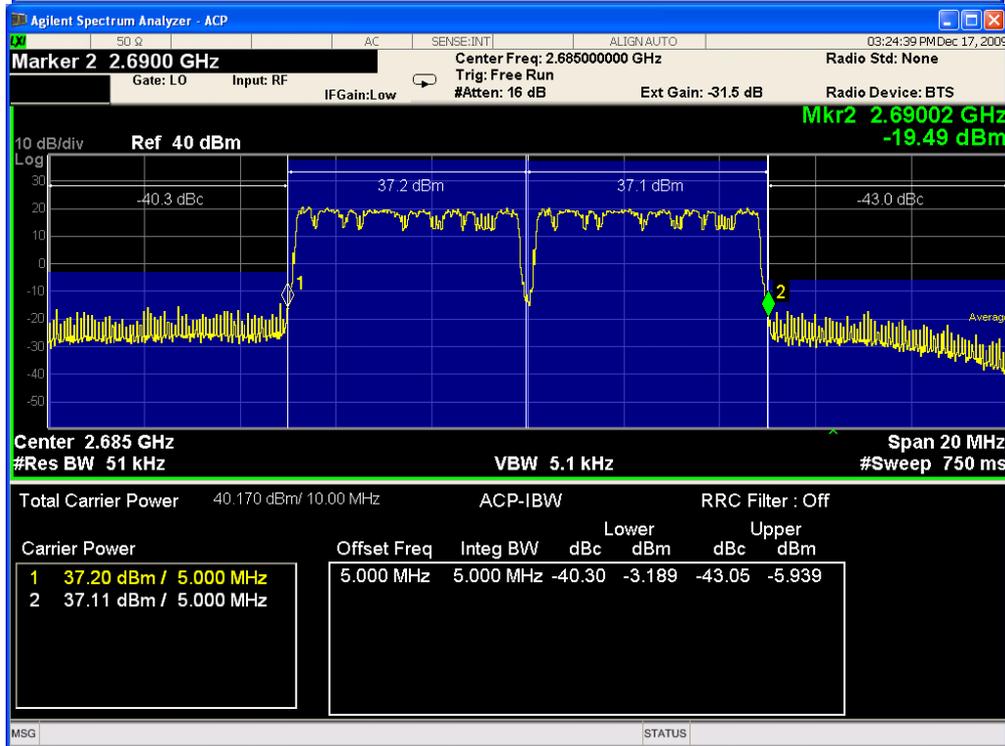
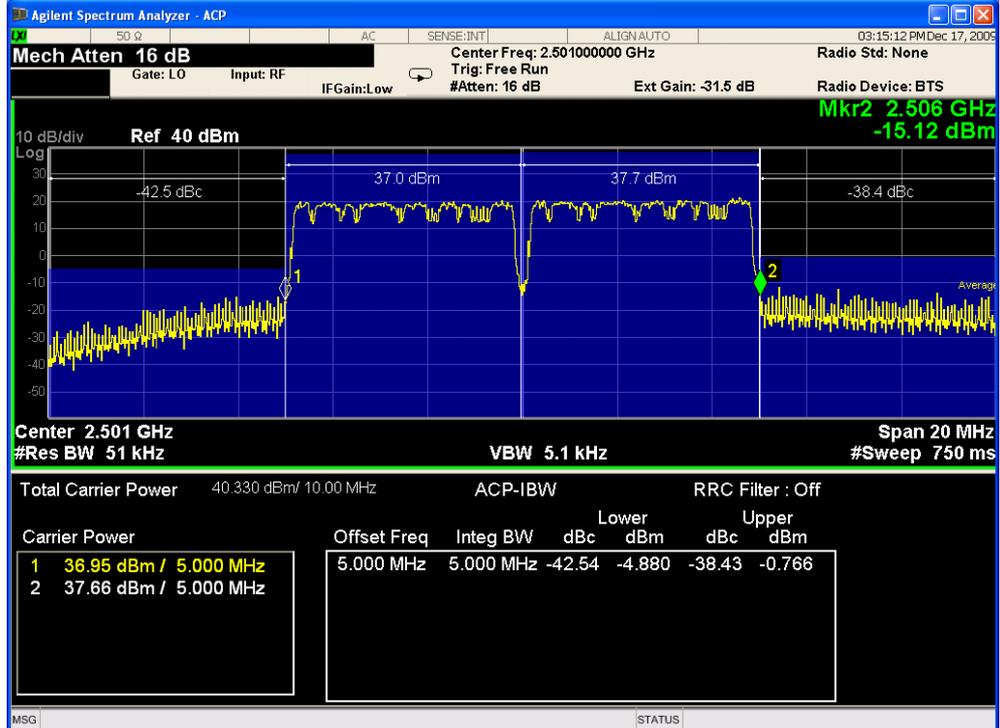
Two carriers (modulation is 16QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-15.21/-19.53	-13.00



Two carriers (modulation is 64QAM, Occupied bandwidth is 5MHz)

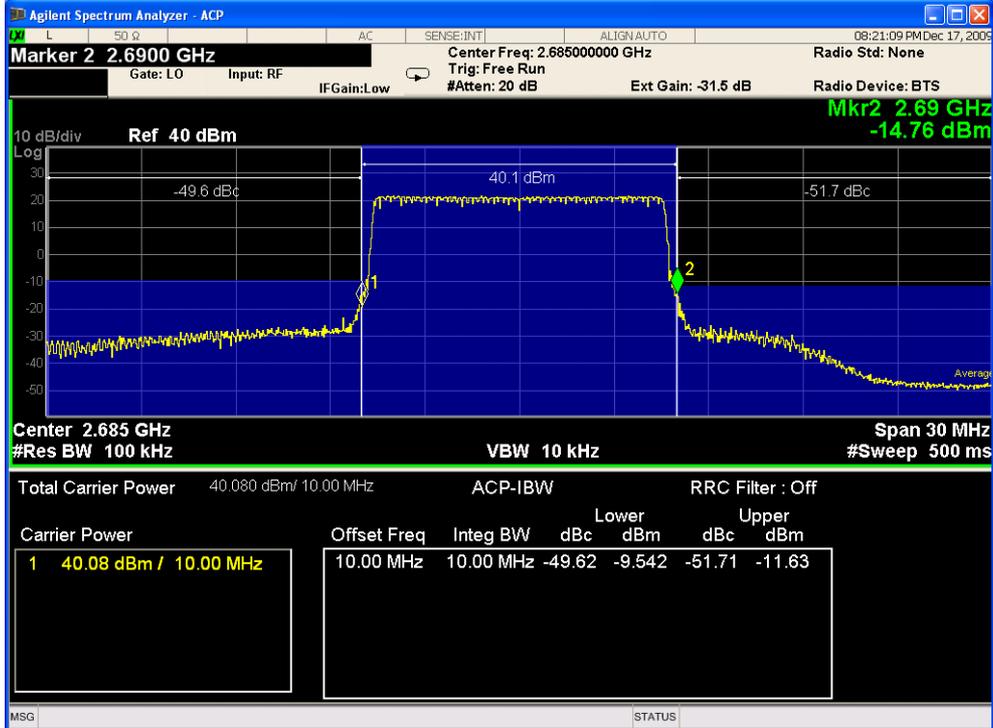
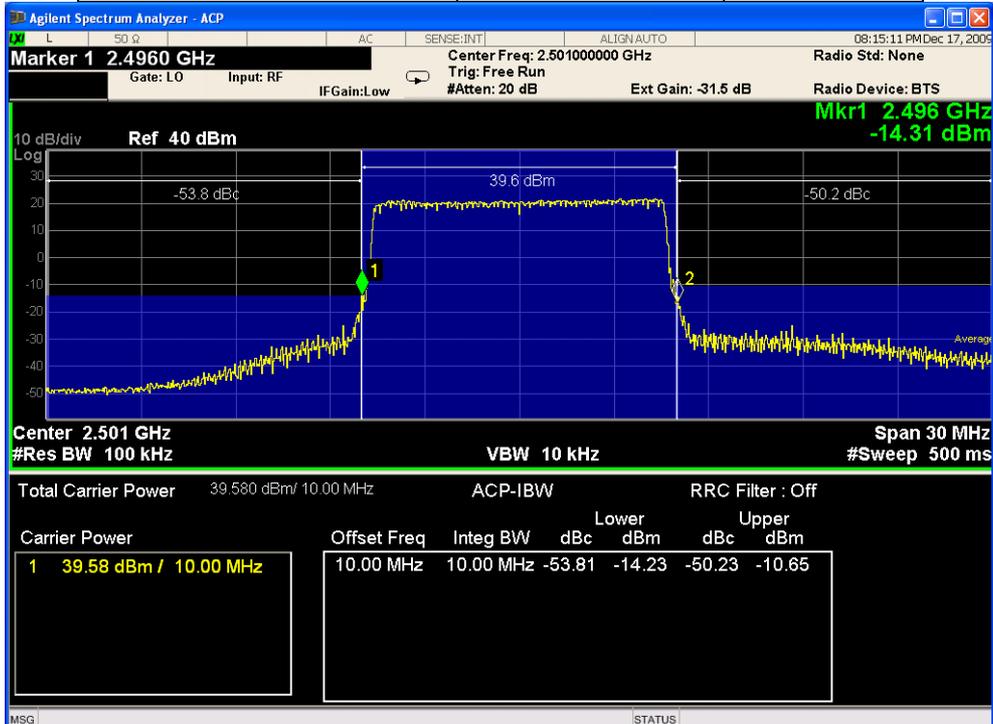
Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-15.12/-19.49	-13.00



Antenna 2:

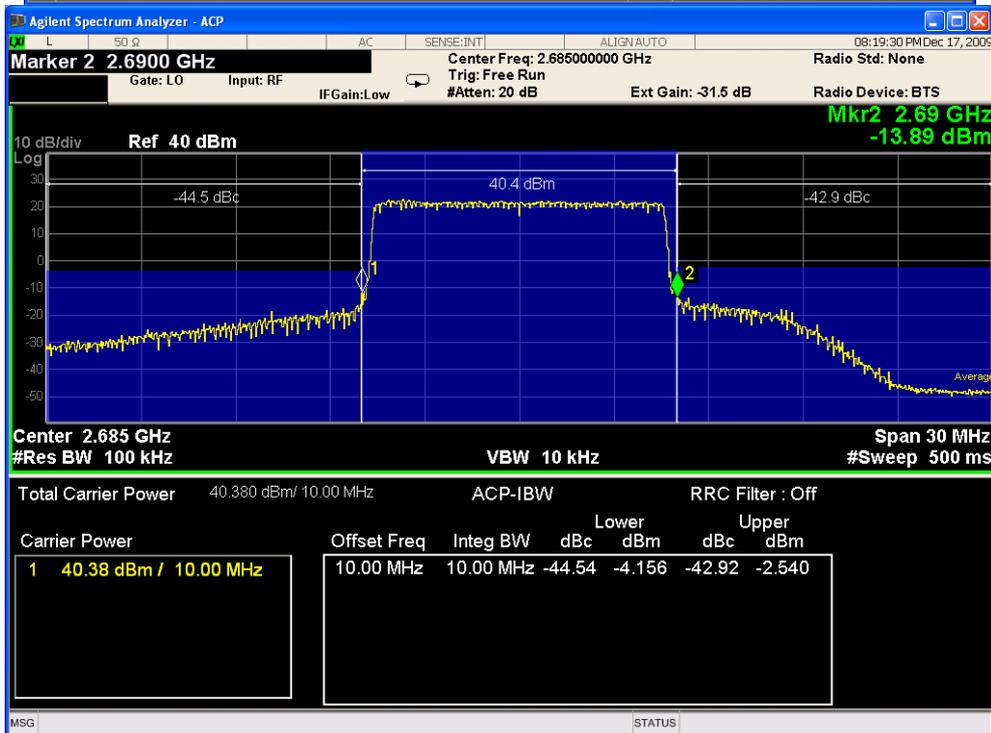
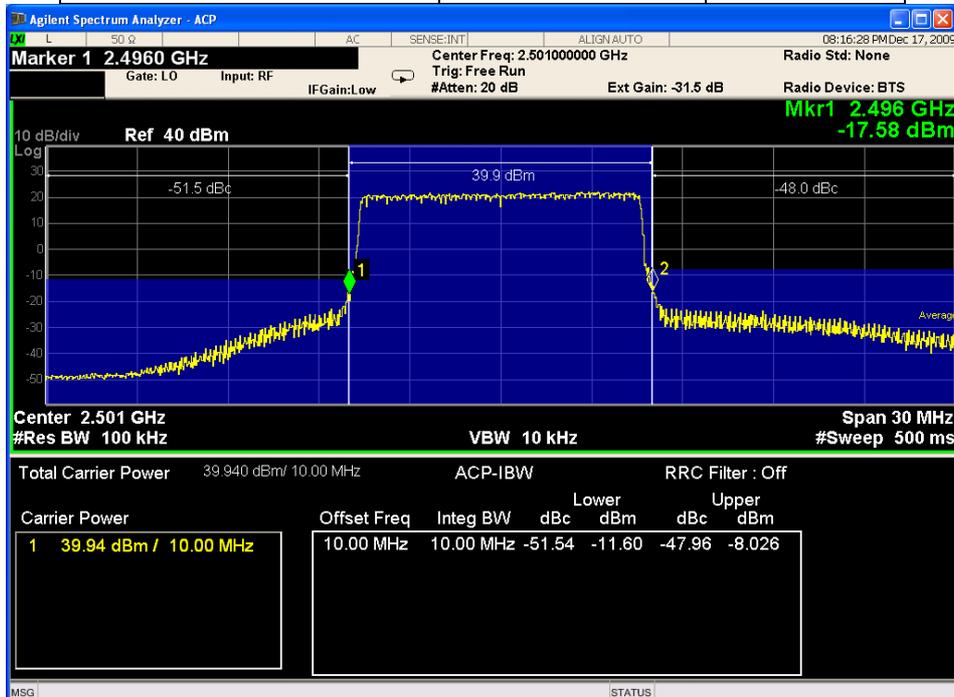
One carrier(modulation is QPSK, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-14.31/-14.76	-13.00



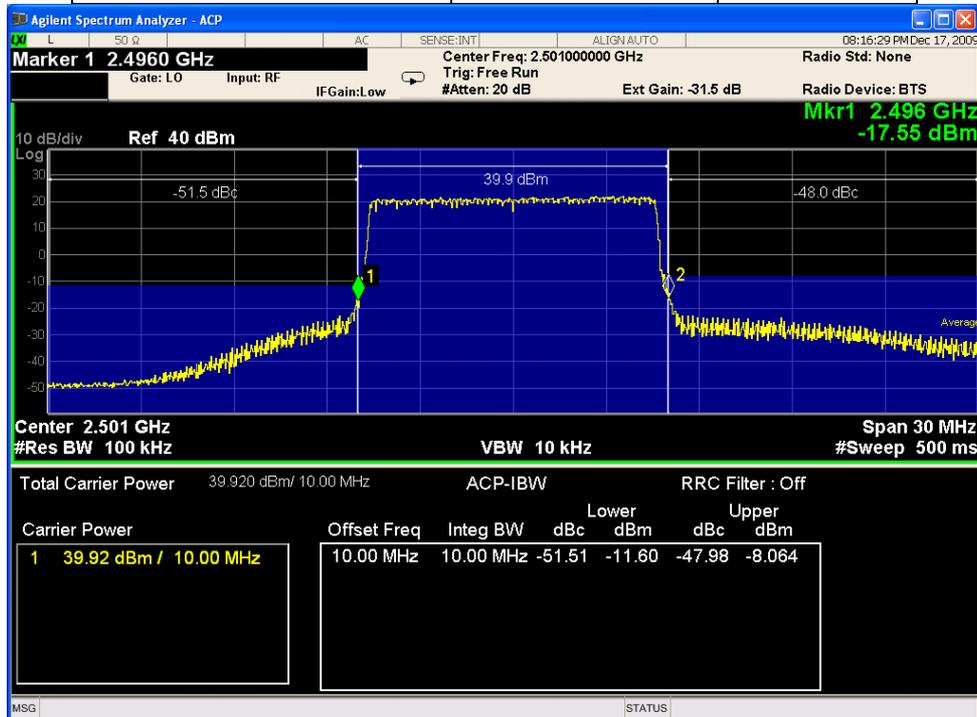
One carrier(modulation is 16QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-17.58/-13.89	-13.00



One carrier(modulation is 64QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-17.55/-13.85	-13.00



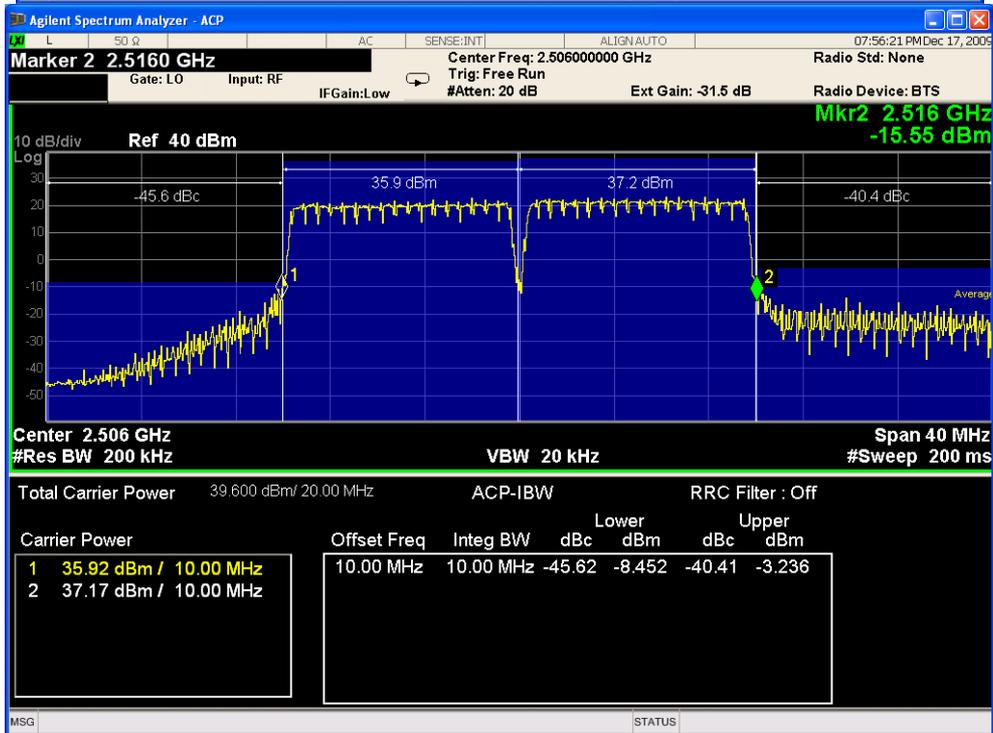
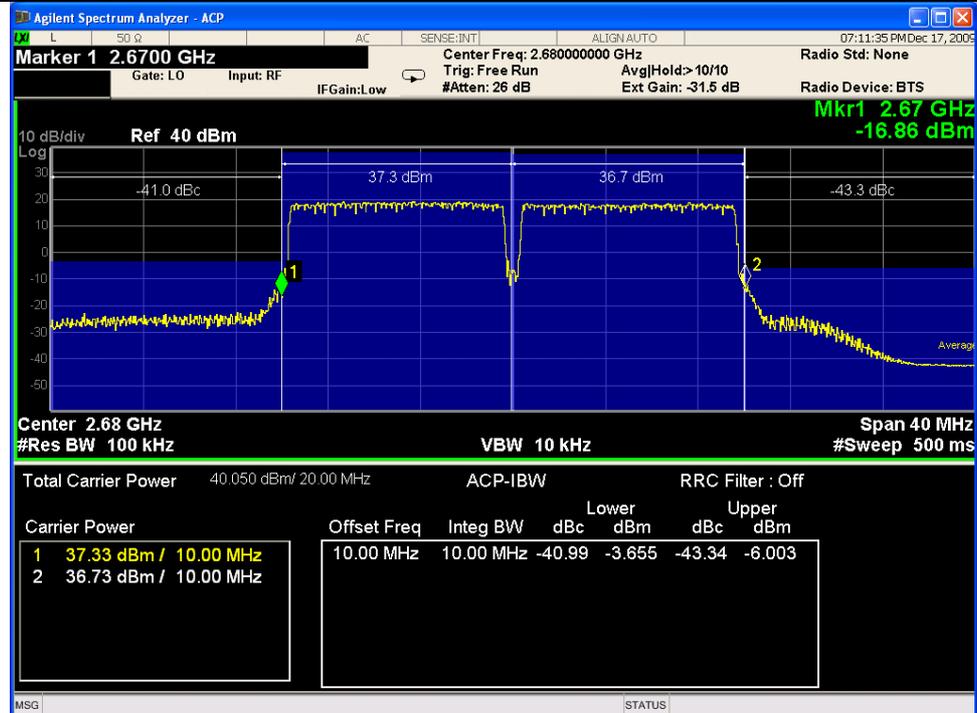
Two carriers (modulation is QPSK, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-21.91/-20.69	-13.00



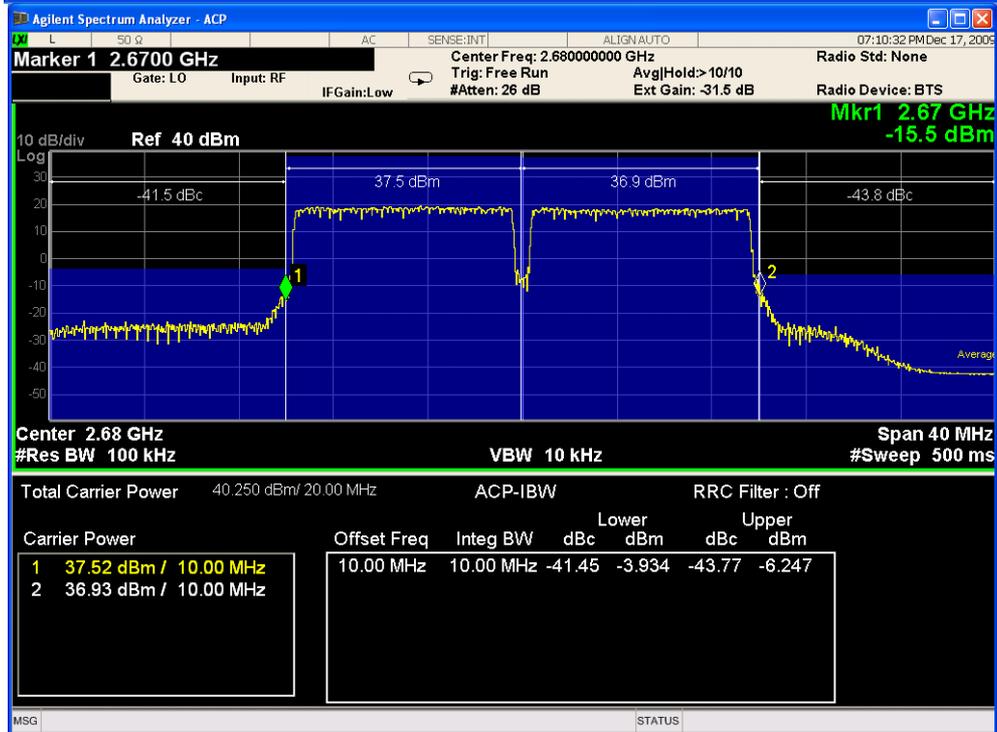
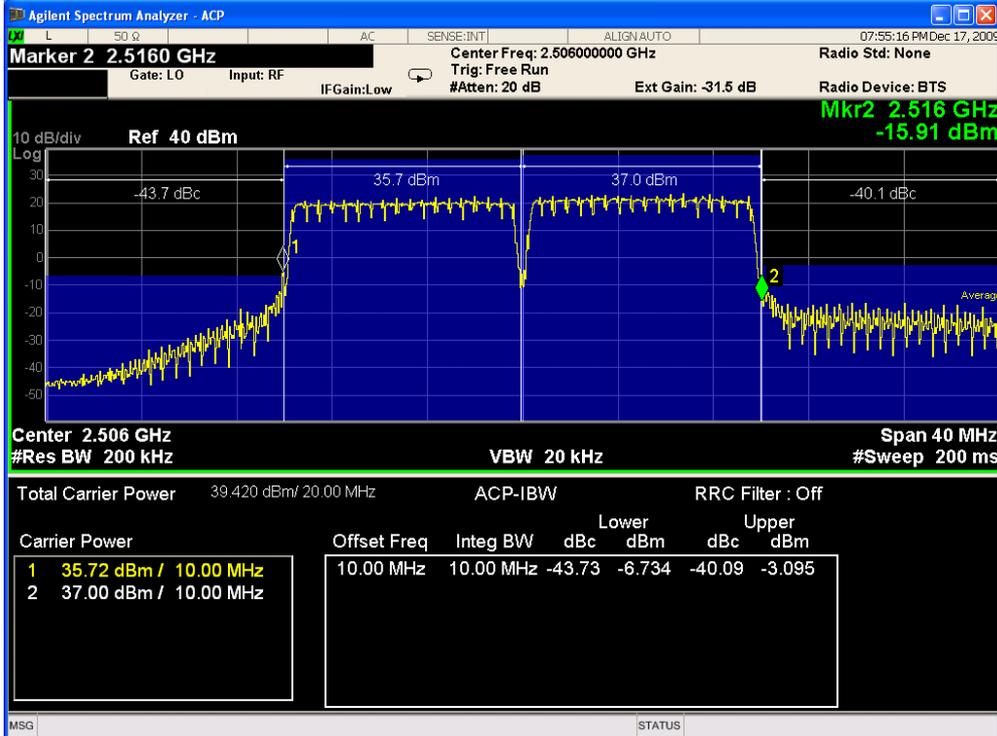
Two carriers (modulation is 16QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-15.55/-16.86	-13.00



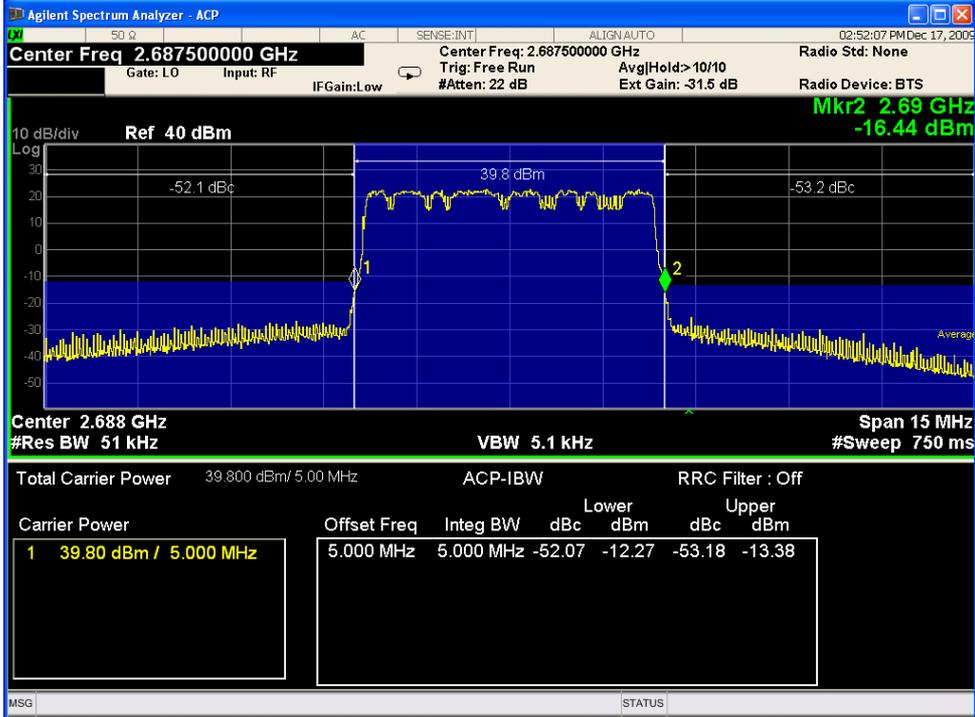
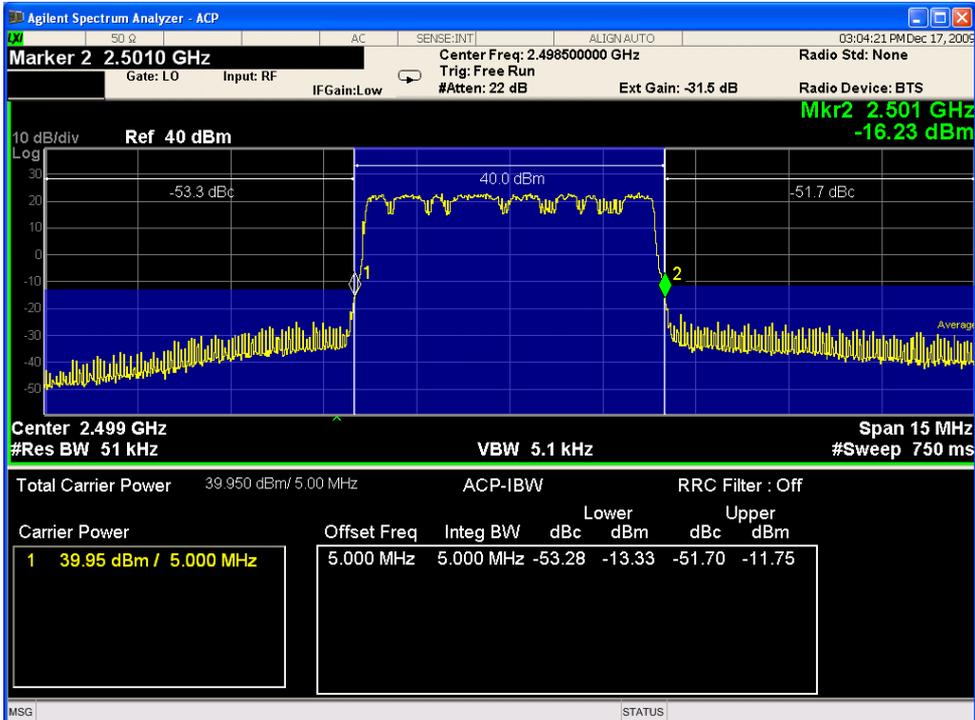
Two carriers (modulation is 64QAM, Occupied bandwidth is 10MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2506/2680	-15.91/-15.5	-13.00



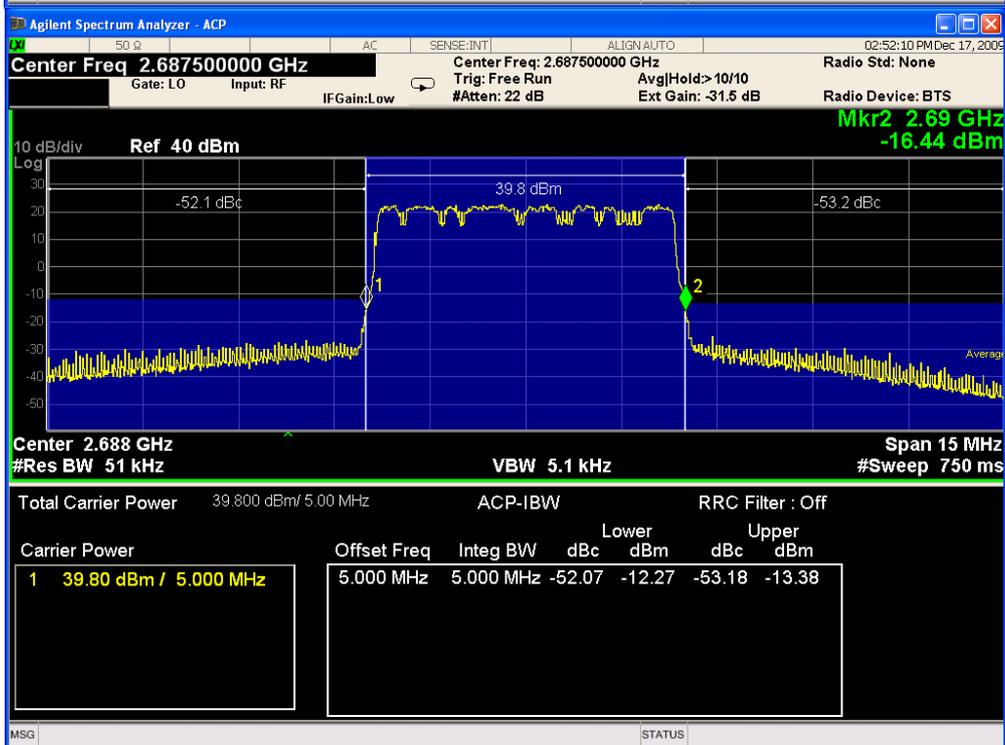
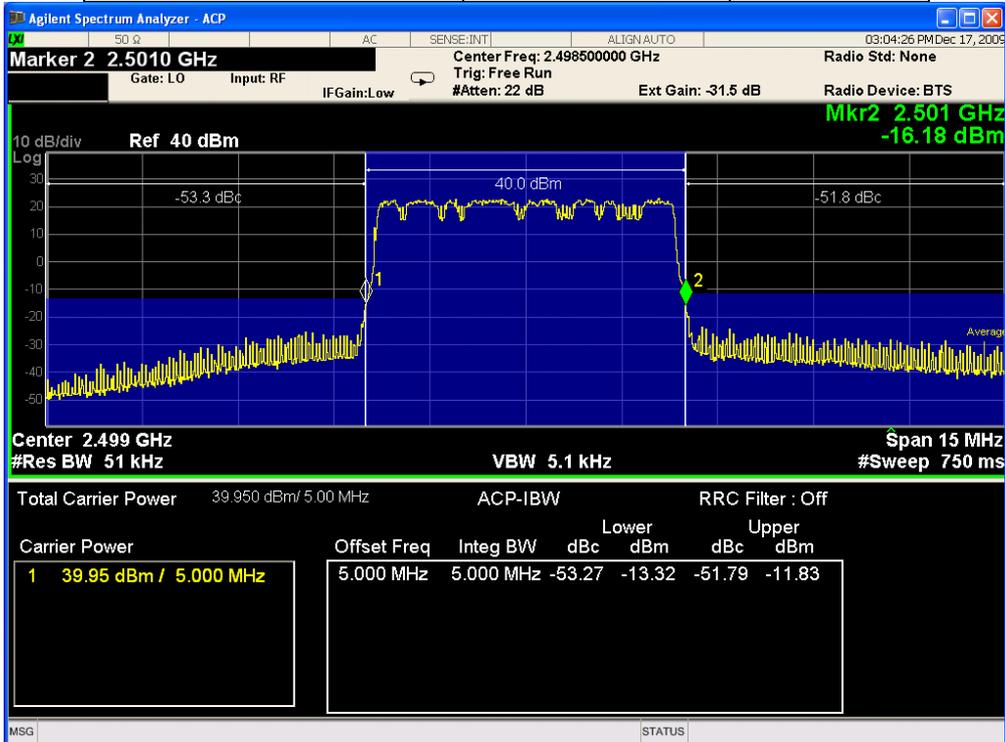
One carrier(modulation is QPSK, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.23/-16.44	-13.00



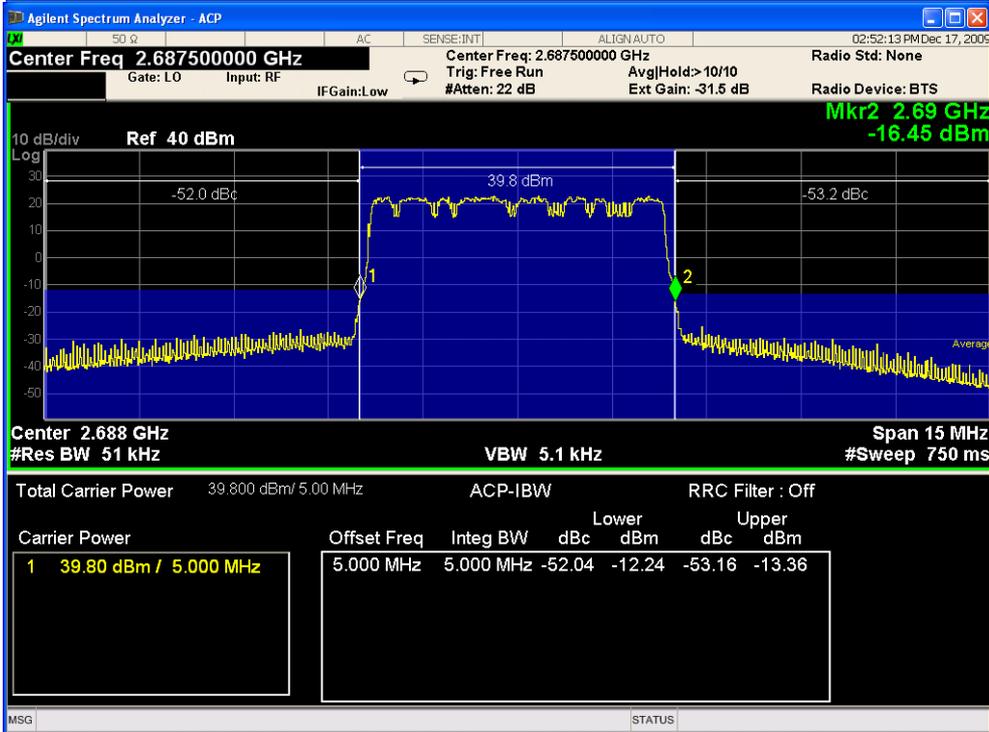
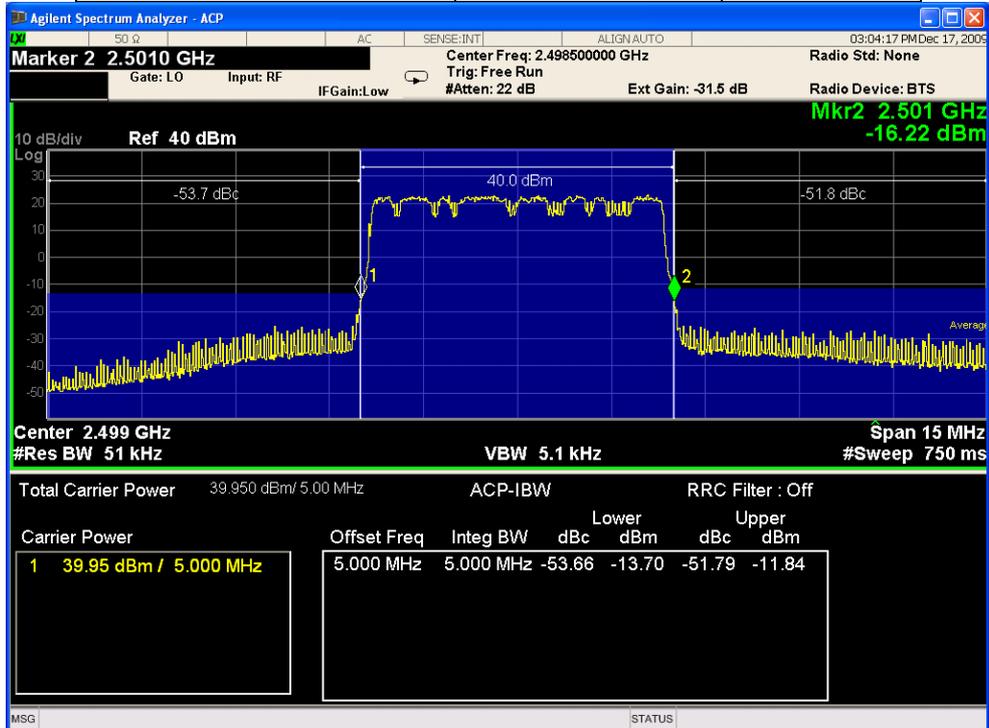
One carrier(modulation is 16QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.18/-16.44	-13.00



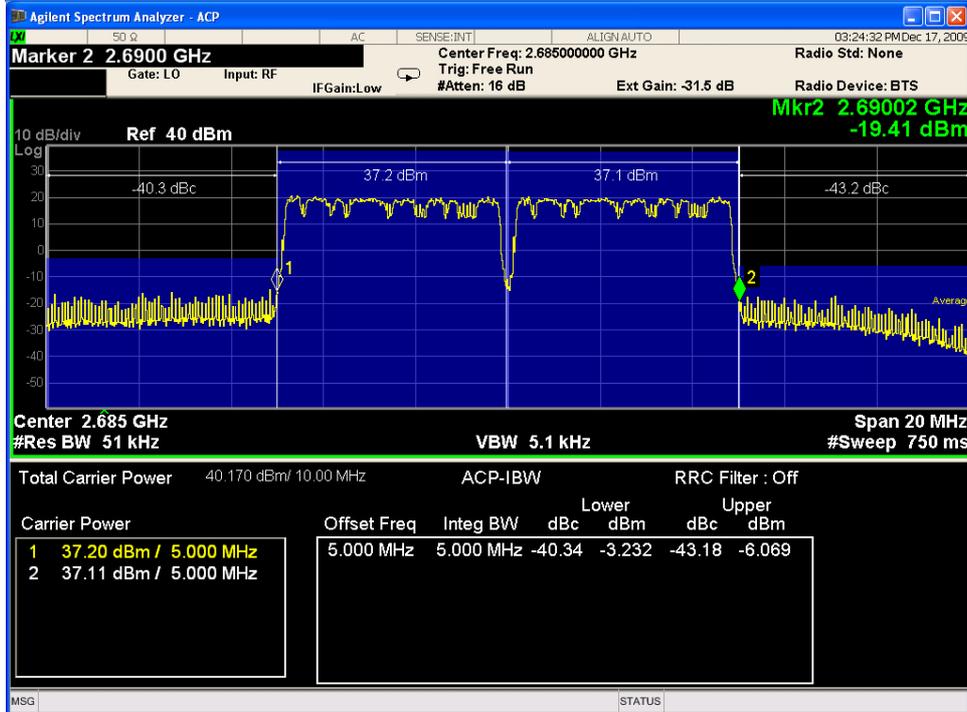
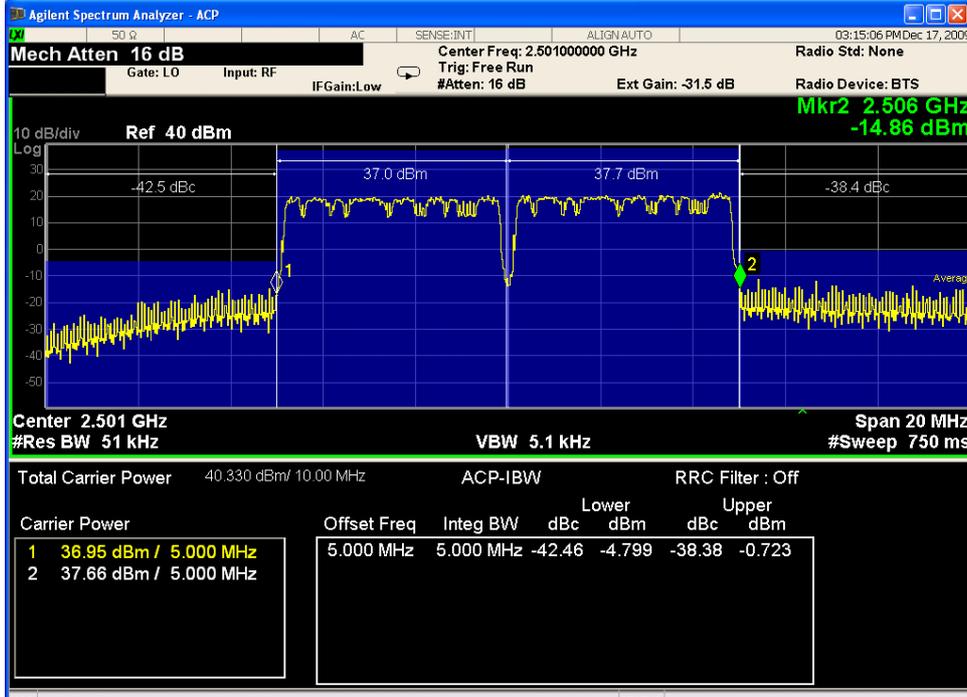
One carrier(modulation is 64QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2498.5/2687.5	-16.22/-16.45	-13.00



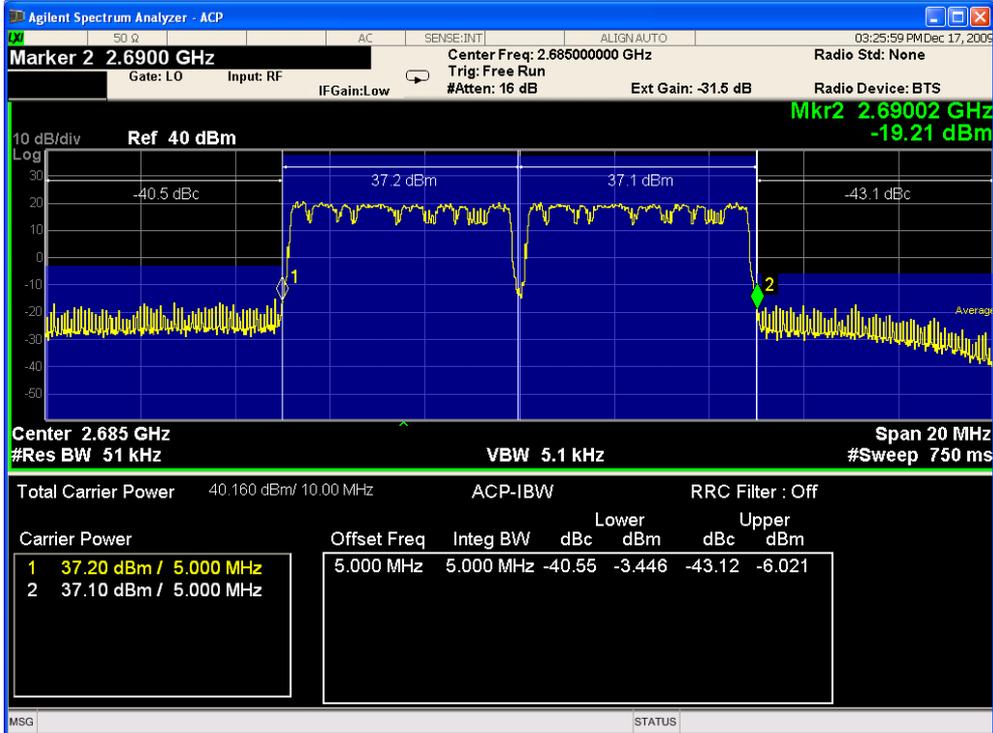
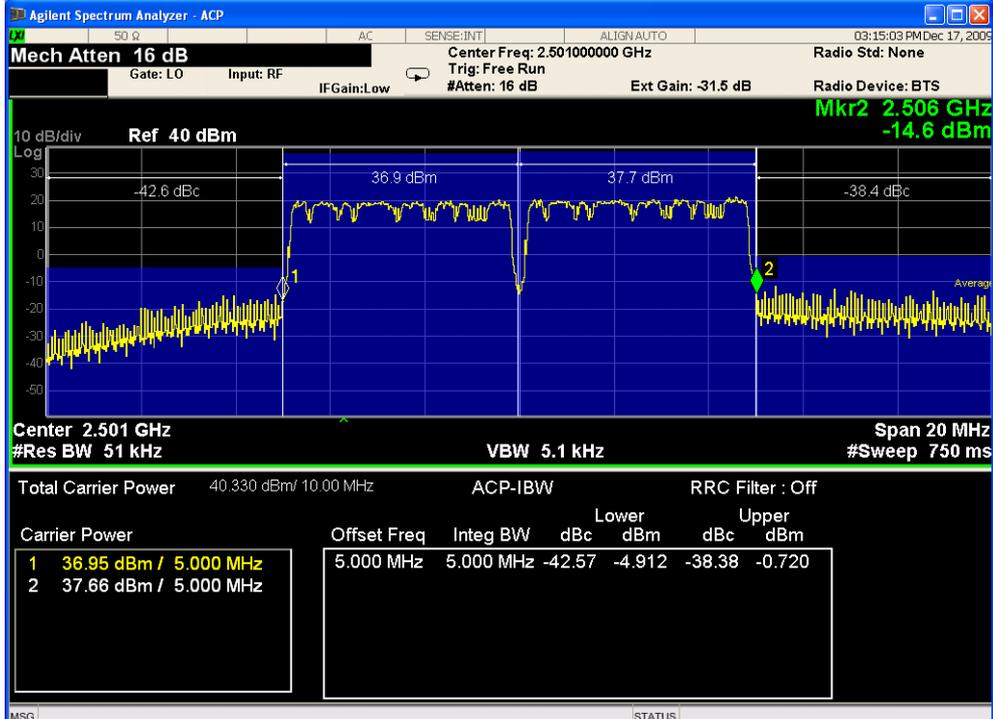
Two carriers (modulation is QPSK, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-14.86/-19.41	-13.00



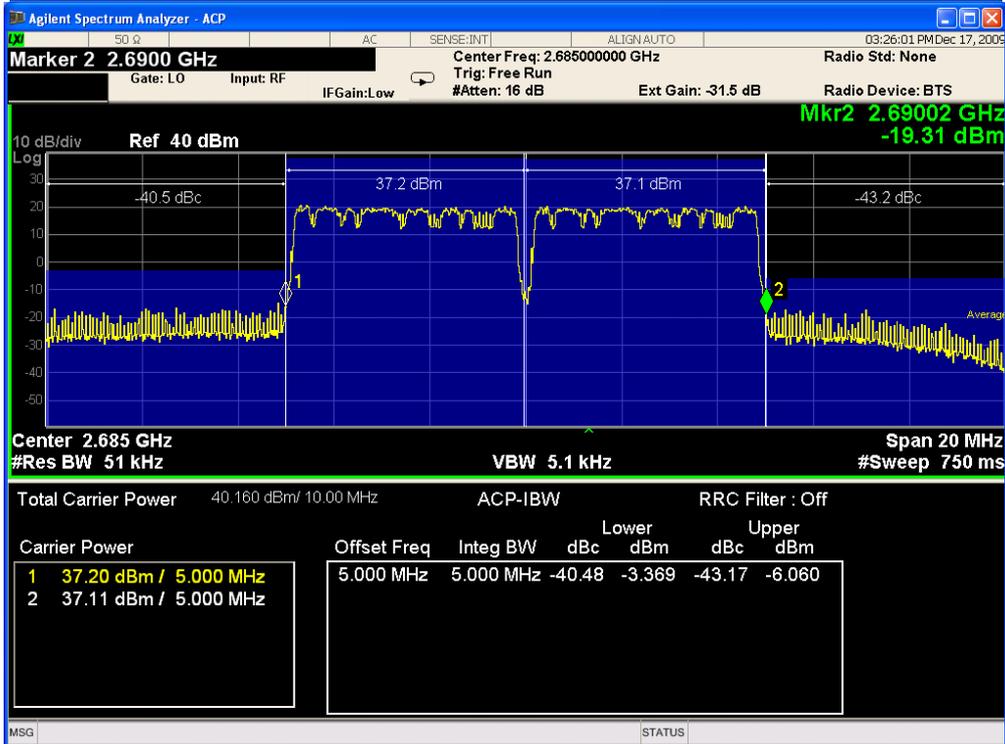
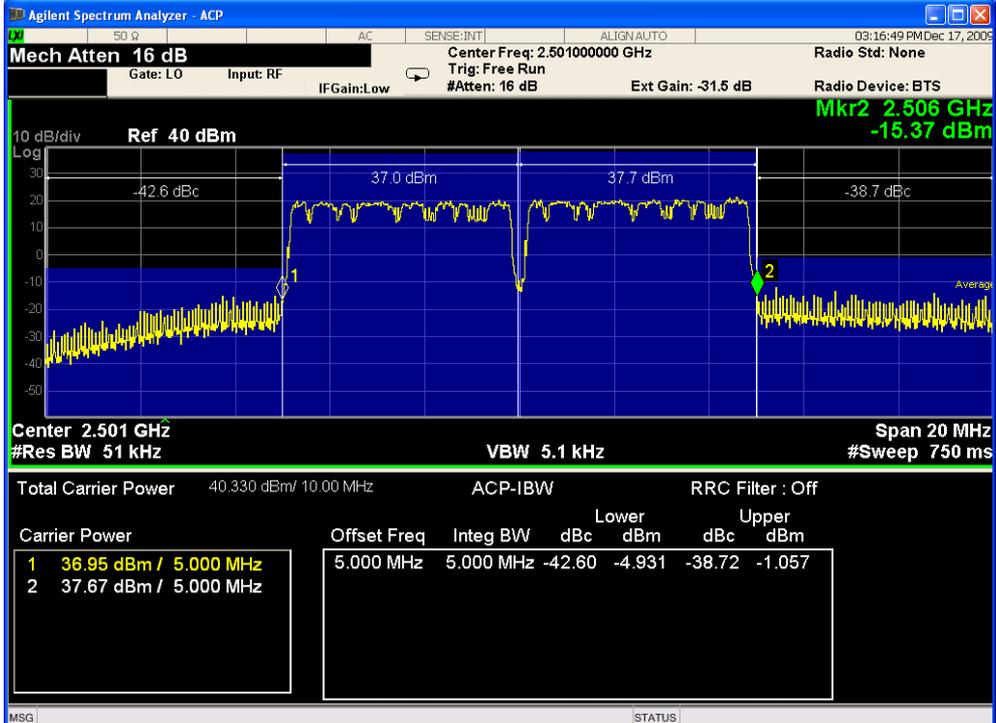
Two carriers (modulation is 16QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-14.60/-19.21	-13.00



Two carriers (modulation is 64QAM, Occupied bandwidth is 5MHz)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
2501/2685	-15.37/-19.31	-13.00



11 §2.1055 (a), §2.1055 (d), §27.54 - FREQUENCY STABILITY

Applicable Standard

Requirements: FCC § 2.1055 (a), Part 27.54 following:

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation. The limit of the tolerance of the frequency is +/-0.02 PPM, so the limit in HZ are below:

frequency	limit
2501 MHZ	+/- 50.02 HZ
2593 MHZ	+/- 51.86 HZ
2685 MHZ	+/- 53.70 HZ

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Spectrum Analyzer	N9020A	N/A	2009-4-10	2009-4-9
GZ-ESPEC	Temperature Chamber	EW0470	6113028	2009.5.27	2010-5-26

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external AC 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 AC 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 +/-20% of the nominal value and then working in normal working conditions for about two hours; The output frequency was recorded for each voltage.

Environmental Conditions

Normal temp.	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

The testing was performed by Wei bin, during Oct 27, 2009 to Dec 19, 2009

Test Result: Pass

Test Mode: Transmitting OFDMA 802.16e

Test Data

Frequency Stability versus Temperature

Frequency Stability vs. Temperature				
Temperature °C	Power Supplied Vdc	Frequency Measure Error Hz	Error ppm	Limit 0.02ppm
f=2501MHz				
-40	-48	1.2	0.0004798	PASS
-30	-48	1.9	0.0007597	PASS
-20	-48	0.66	0.0002639	PASS
-10	-48	0.58	0.0002319	PASS
0	-48	1.2	0.0004798	PASS
10	-48	0.79	0.0003159	PASS
20	-48	0.99	0.0003958	PASS
30	-48	0.45	0.0001799	PASS
40	-48	1.2	0.0004798	PASS
50	-48	1.3	0.0005198	PASS
55	-48	0.52	0.0002079	PASS
f=2593MHz				
-40	-48	0.87	0.000336	PASS
-30	-48	0.85	0.000328	PASS
-20	-48	0.88	0.000339	PASS
-10	-48	1	0.000386	PASS
0	-48	0.079	3.05E-05	PASS
10	-48	1.7	0.000656	PASS
20	-48	0.31	0.00012	PASS
30	-48	0.88	0.000339	PASS
40	-48	0.19	7.33E-05	PASS
50	-48	1.1	0.000424	PASS
55	-48	0.87	0.000336	PASS
f=2685MHz				
-40	-48	1.6	0.000596	PASS
-30	-48	1.4	0.000521	PASS
-20	-48	1	0.000372	PASS
-10	-48	1	0.000372	PASS
0	-48	0.81	0.000302	PASS

10	-48	1.2	0.000447	PASS
20	-48	0.91	0.000339	PASS
30	-48	1.1	0.00041	PASS
40	-48	1.3	0.000484	PASS
50	-48	0.86	0.00032	PASS
55	-48	0.59	0.00022	PASS

Frequency Stability Versus Voltage

Frequency Stability vs. Voltage				
VoltageVdc	Temperature °C	Frequency Measure Error Hz	Error ppm	Limit 0.02ppm
f=2501MHz				
-40	20	-2.7	-0.001079568	PASS
-44	20	-2	-0.00079968	PASS
-47	20	-2.1	-0.000839664	PASS
-50	20	-2.9	-0.001159536	PASS
-53	20	-2.9	-0.001159536	PASS
-56	20	-2.7	-0.001079568	PASS
-57	20	-2.8	-0.001119552	PASS
f=2593MHz				
-40	20	-0.86	-0.00033	PASS
-44	20	-3.1	-0.0012	PASS
-47	20	-2.9	-0.00112	PASS
-50	20	-3	-0.00116	PASS
-53	20	-2.8	-0.00108	PASS
-56	20	-2.4	-0.00093	PASS
-57	20	-2	-0.00077	PASS
f=2685MHz				
-40	20	-0.13	-4.84171E-05	PASS
-44	20	-1.8	-0.000670391	PASS
-47	20	-1.1	-0.000409683	PASS
-50	20	-1	-0.000372439	PASS
-53	20	-0.35	-0.000130354	PASS
-56	20	-0.13	-4.84171E-05	PASS
-57	20	-1.8	-0.000670391	PASS