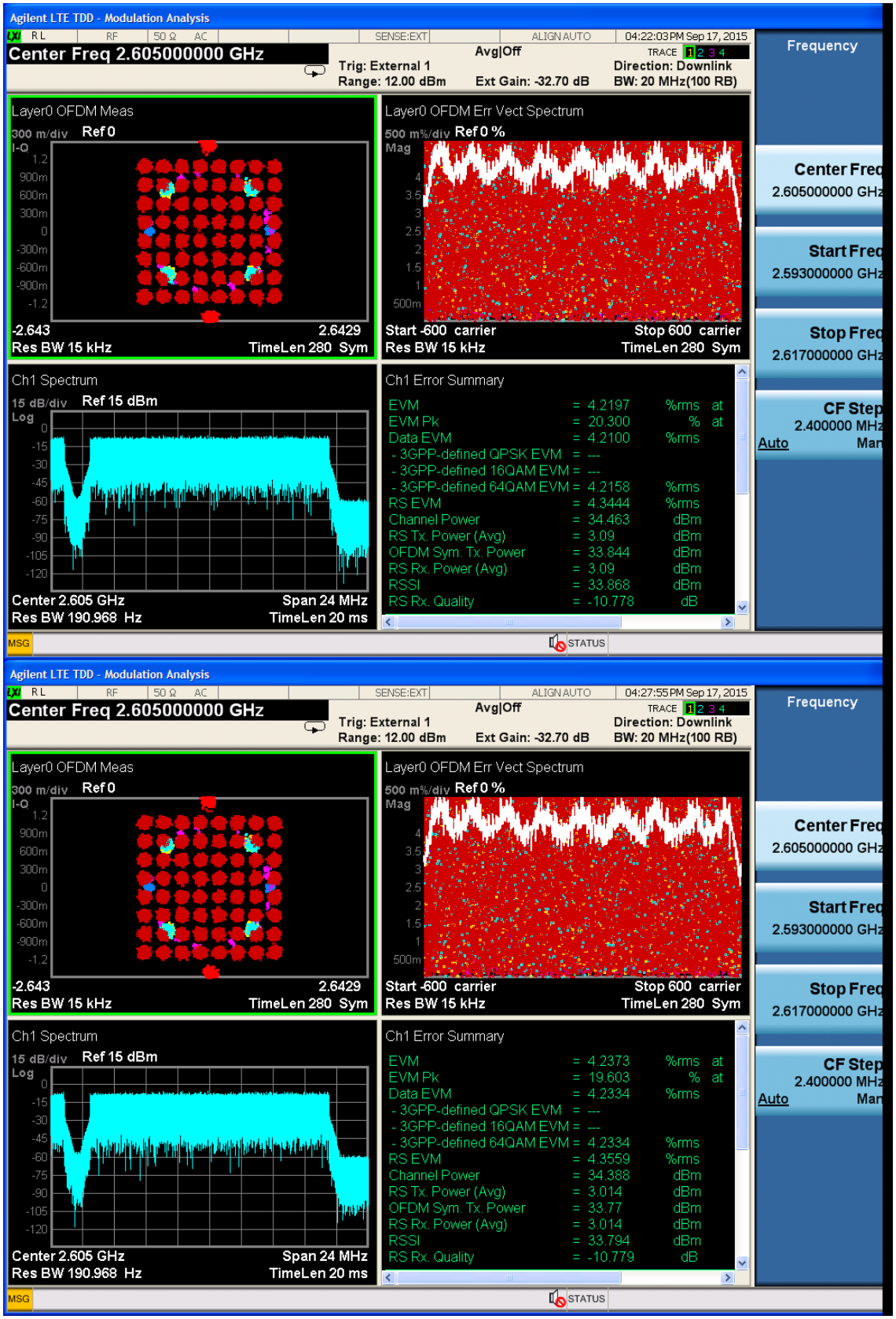
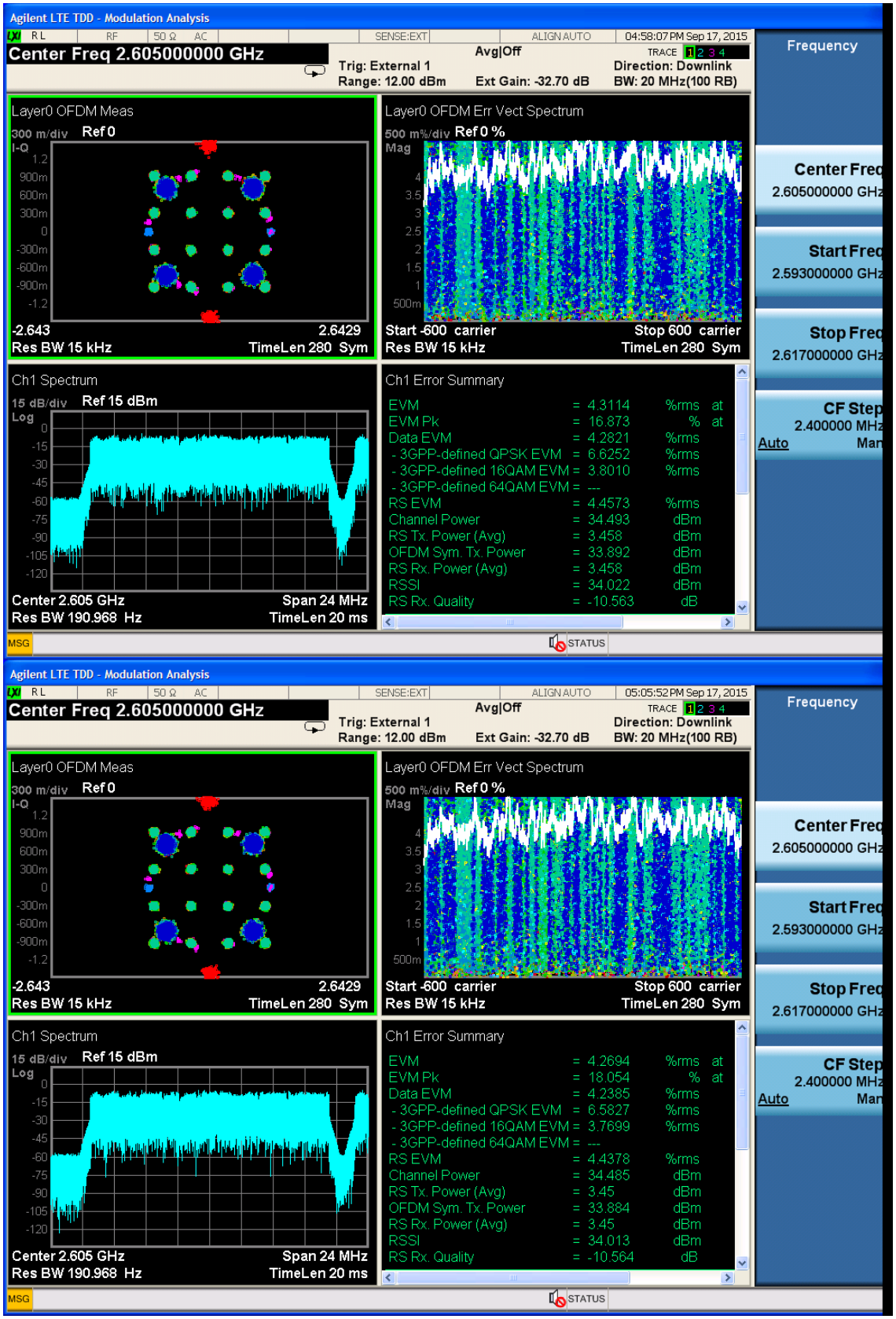
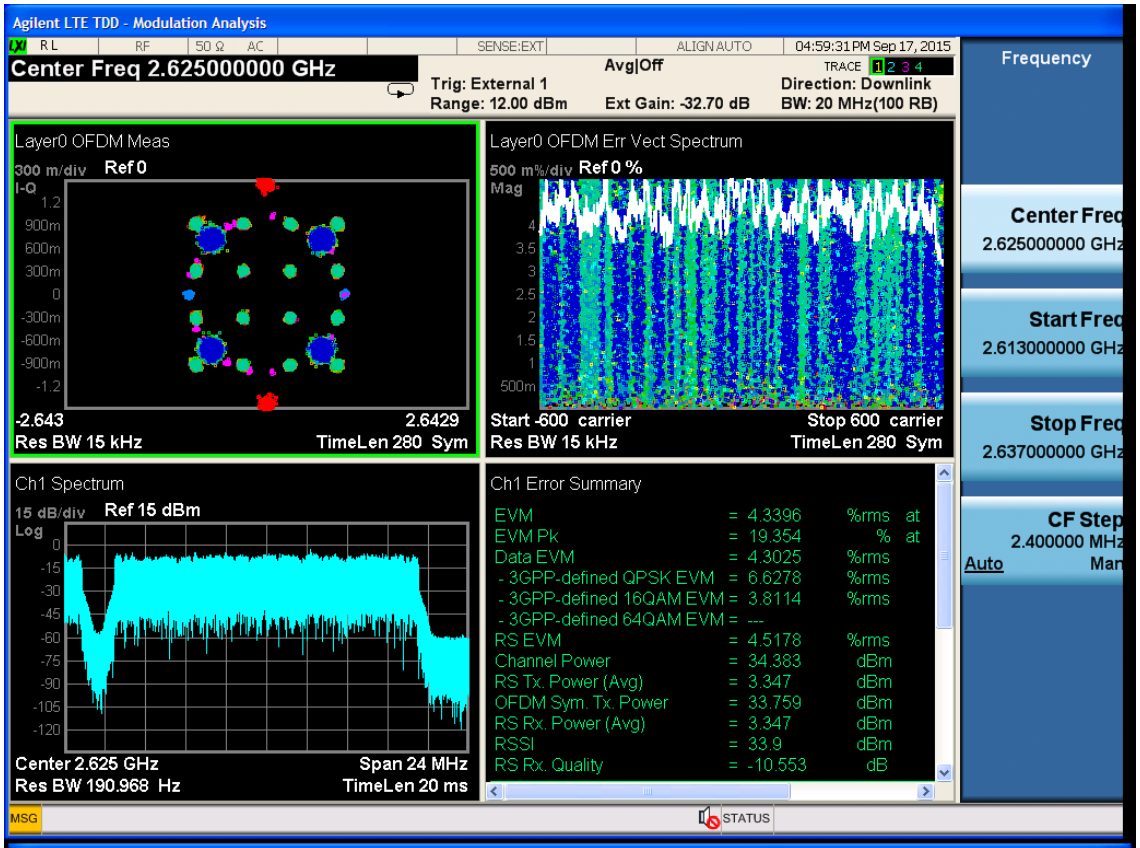
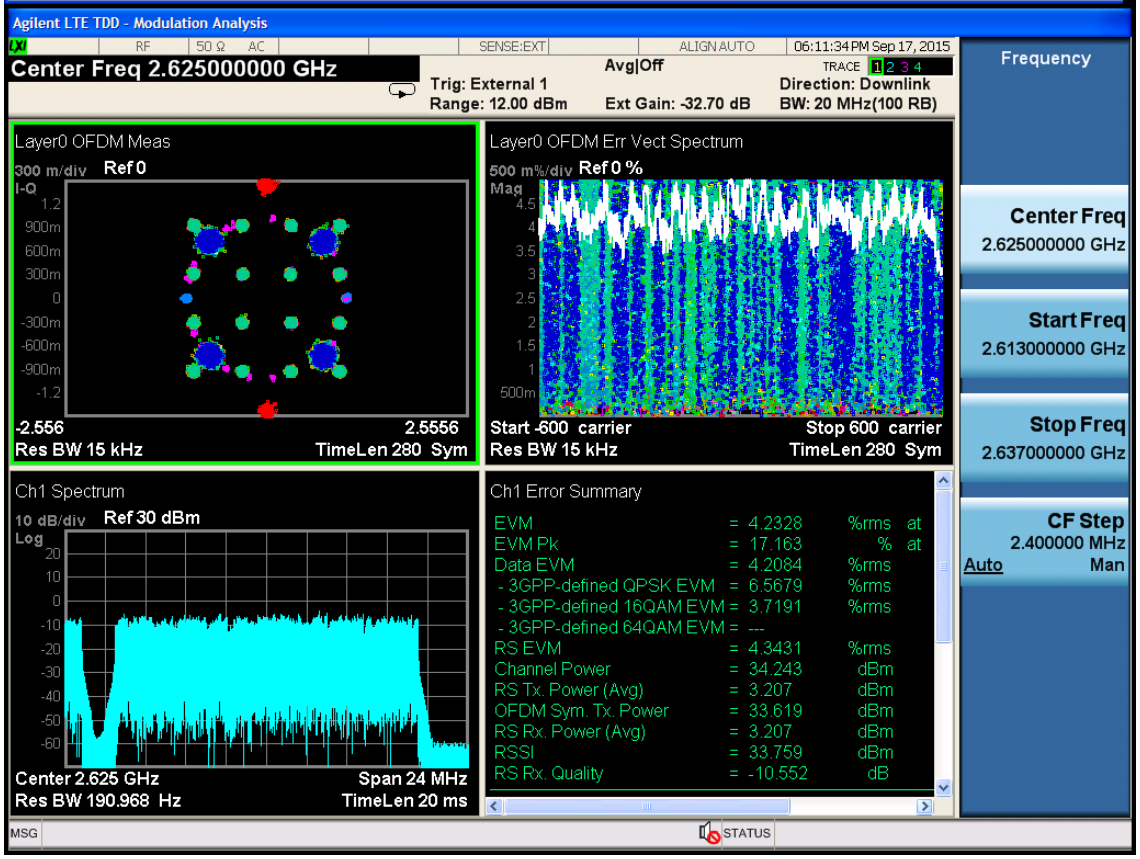
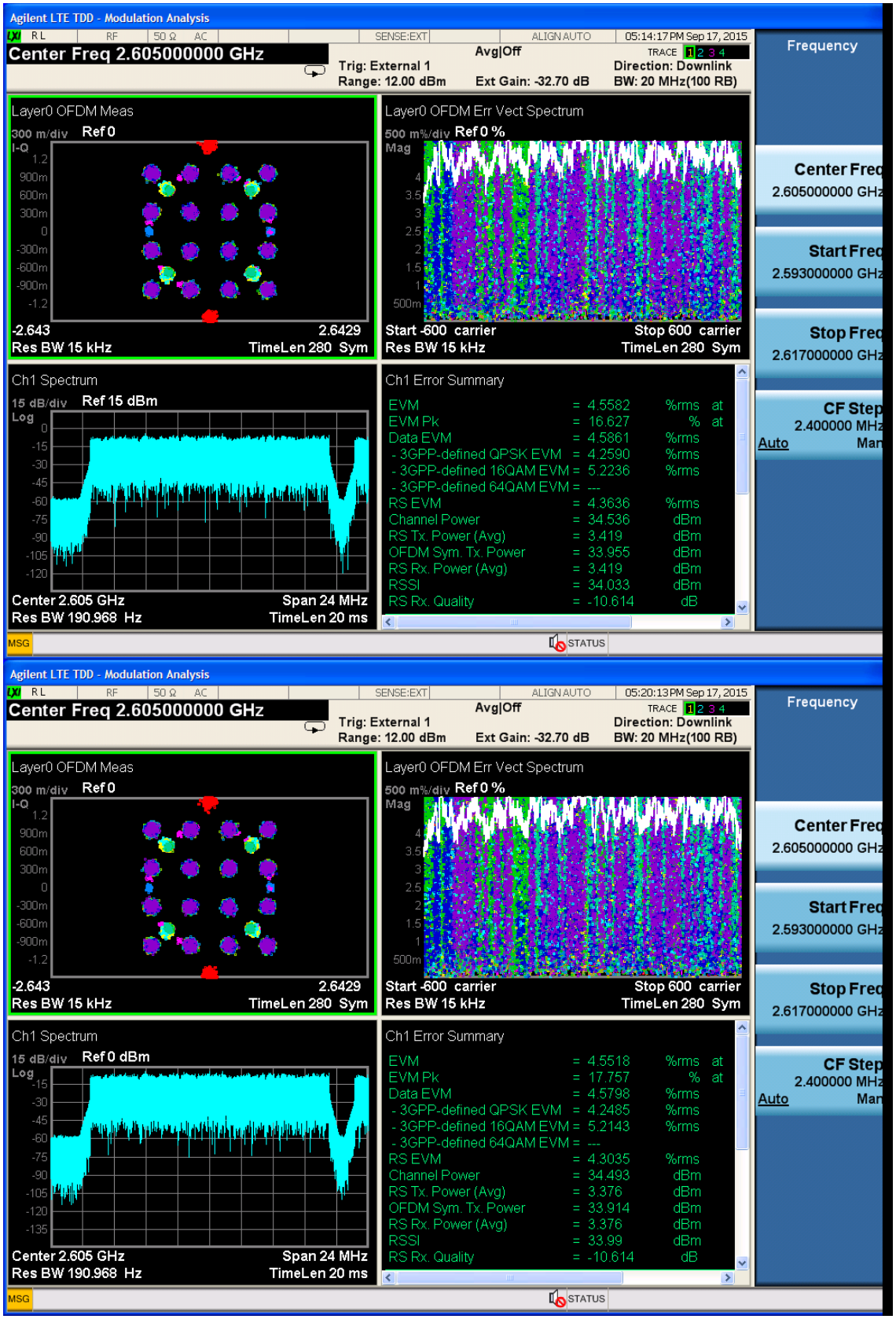
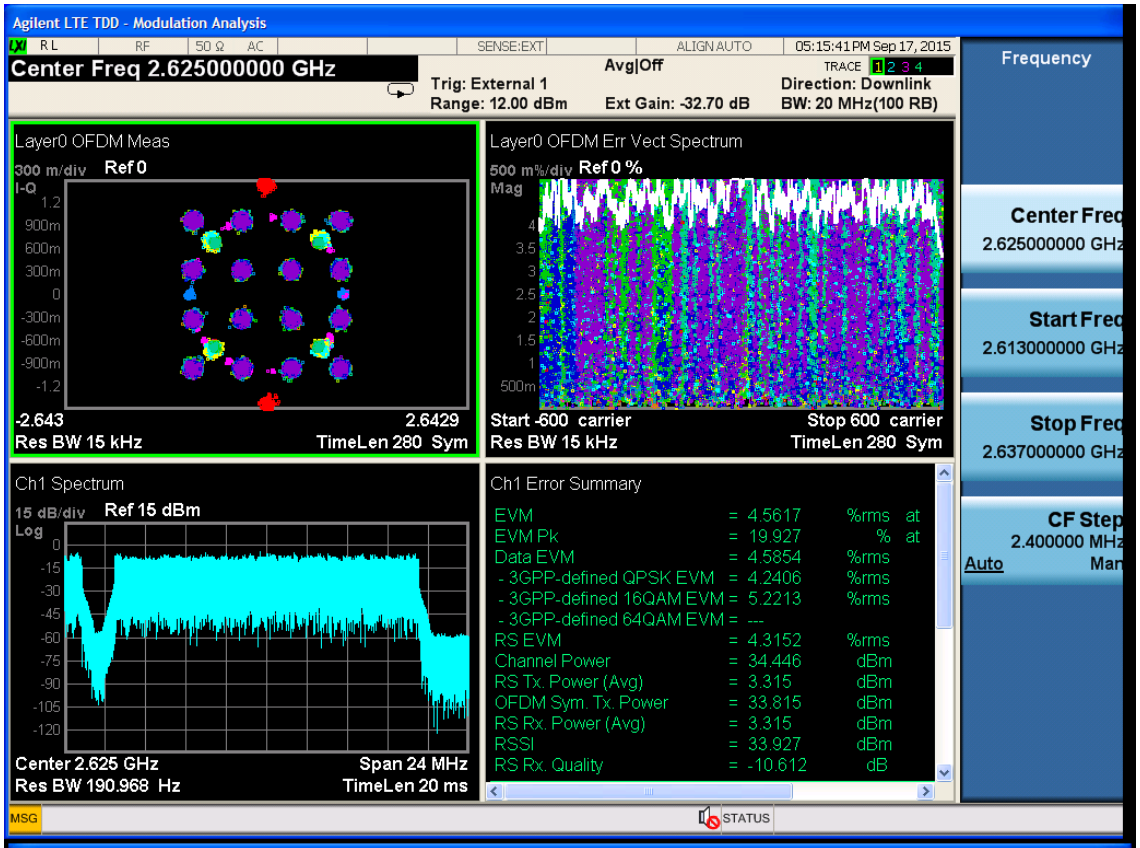

Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
04:22:03 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.2197 %rms at
EVM Pk = 20.300 % at
Data EVM = 4.2100 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.2158 %rms
RS EVM = 4.3444 %rms
Channel Power = 34.463 dBm
RS Tx. Power (Avg) = 3.09 dBm
OFDM Sym. Tx. Power = 33.844 dBm
RS Rx. Power (Avg) = 3.09 dBm
RSSI = 33.868 dBm
RS Rx. Quality = -10.778 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS
Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
04:27:55 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.2373 %rms at
EVM Pk = 19.603 % at
Data EVM = 4.2334 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.2334 %rms
RS EVM = 4.3559 %rms
Channel Power = 34.388 dBm
RS Tx. Power (Avg) = 3.014 dBm
OFDM Sym. Tx. Power = 33.77 dBm
RS Rx. Power (Avg) = 3.014 dBm
RSSI = 33.794 dBm
RS Rx. Quality = -10.779 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS

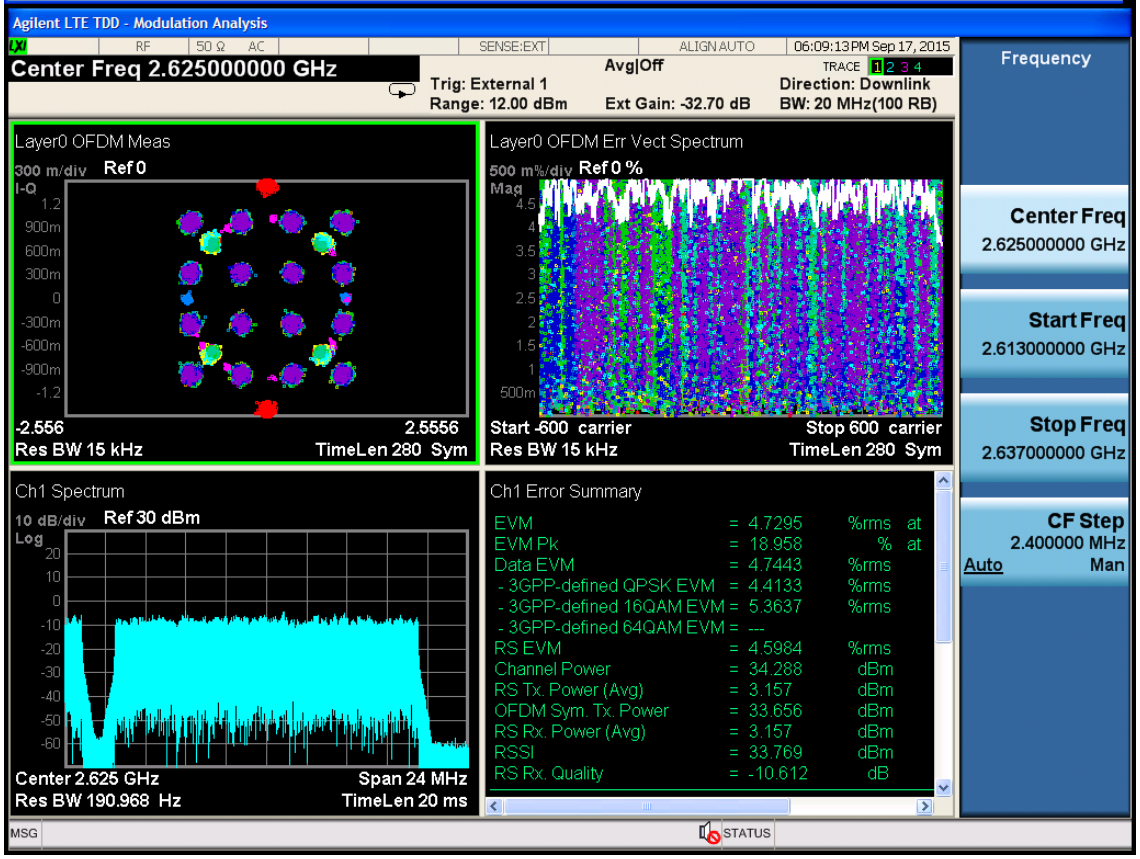

Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
04:58:07 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.3114 %rms at
EVM Pk = 16.873 % at
Data EVM = 4.2821 %rms
- 3GPP-defined QPSK EVM = 6.6252 %rms
- 3GPP-defined 16QAM EVM = 3.8010 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.4573 %rms
Channel Power = 34.493 dBm
RS Tx. Power (Avg) = 3.458 dBm
OFDM Sym. Tx. Power = 33.892 dBm
RS Rx. Power (Avg) = 3.458 dBm
RSSI = 34.022 dBm
RS Rx. Quality = -10.563 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS
Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:05:52 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.2694 %rms at
EVM Pk = 18.054 % at
Data EVM = 4.2385 %rms
- 3GPP-defined QPSK EVM = 6.5827 %rms
- 3GPP-defined 16QAM EVM = 3.7699 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.4378 %rms
Channel Power = 34.485 dBm
RS Tx. Power (Avg) = 3.45 dBm
OFDM Sym. Tx. Power = 33.884 dBm
RS Rx. Power (Avg) = 3.45 dBm
RSSI = 34.013 dBm
RS Rx. Quality = -10.564 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
MSG
STATUS

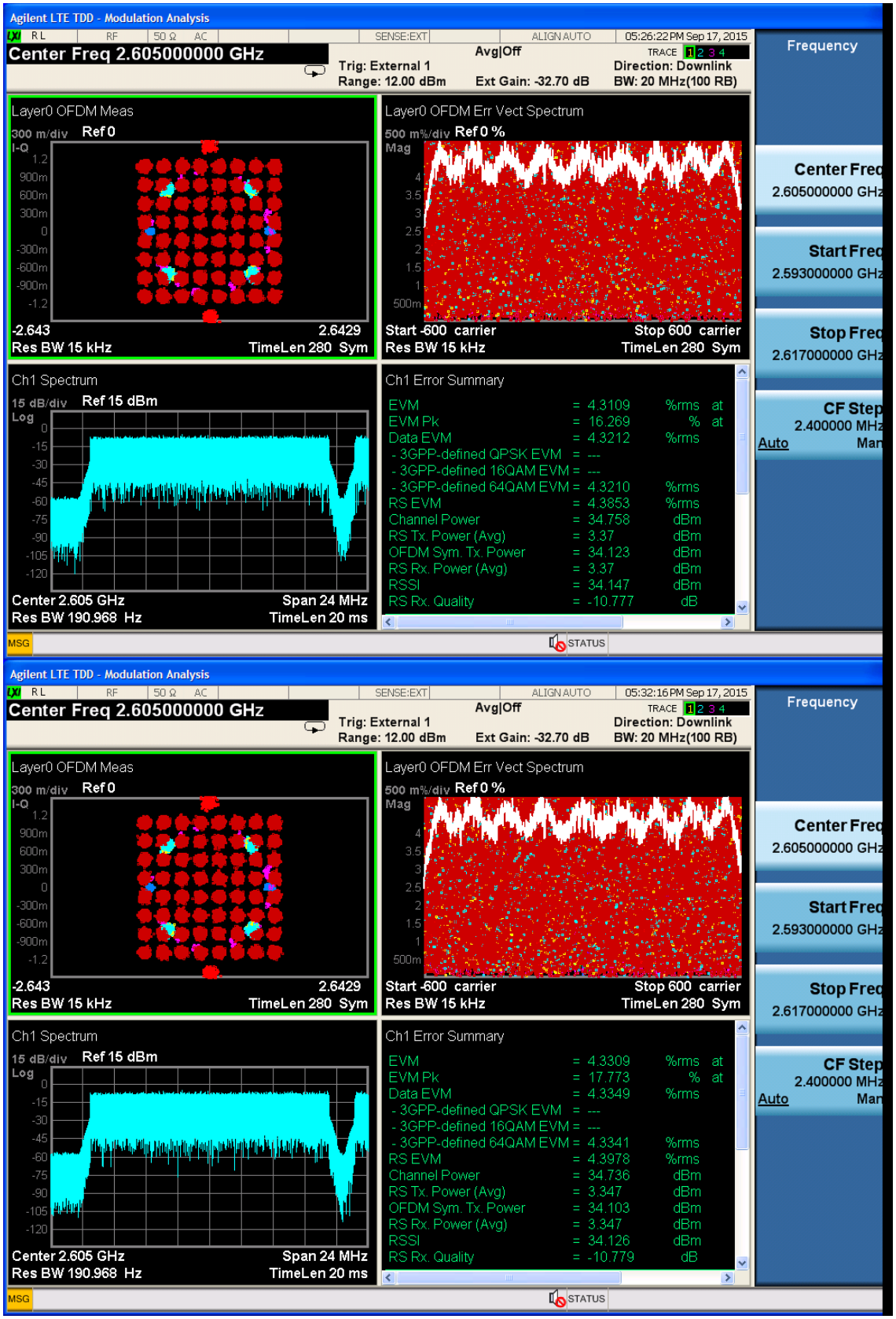

Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
04:59:31 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.3396 %rms at
EVM Pk = 19.354 % at
Data EVM = 4.3025 %rms
- 3GPP-defined QPSK EVM = 6.6278 %rms
- 3GPP-defined 16QAM EVM = 3.8114 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.5178 %rms
Channel Power = 34.383 dBm
RS Tx. Power (Avg) = 3.347 dBm
OFDM Sym. Tx. Power = 33.759 dBm
RS Rx. Power (Avg) = 3.347 dBm
RSSI = 33.9 dBm
RS Rx. Quality = -10.553 dB
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS

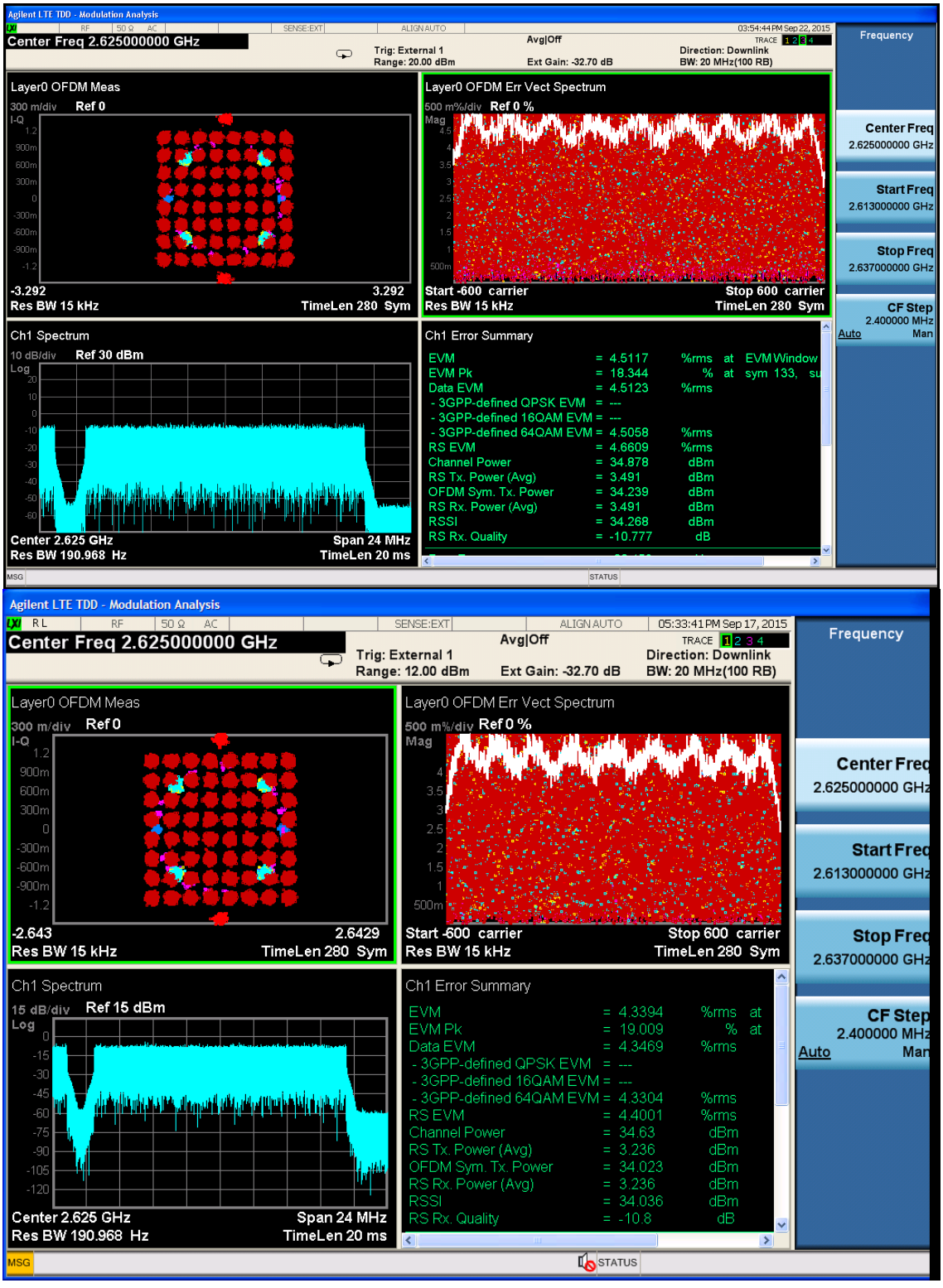

Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
06:11:34 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.2328 %rms at
EVM Pk = 17.163 % at
Data EVM = 4.2084 %rms
- 3GPP-defined QPSK EVM = 6.5679 %rms
- 3GPP-defined 16QAM EVM = 3.7191 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.3431 %rms
Channel Power = 34.243 dBm
RS Tx. Power (Avg) = 3.207 dBm
OFDM Sym. Tx. Power = 33.619 dBm
RS Rx. Power (Avg) = 3.207 dBm
RSSI = 33.759 dBm
RS Rx. Quality = -10.552 dB
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:14:17 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.5582 %rms at
EVM Pk = 16.627 % at
Data EVM = 4.5861 %rms
- 3GPP-defined QPSK EVM = 4.2590 %rms
- 3GPP-defined 16QAM EVM = 5.2236 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.3636 %rms
Channel Power = 34.536 dBm
RS Tx. Power (Avg) = 3.419 dBm
OFDM Sym. Tx. Power = 33.955 dBm
RS Rx. Power (Avg) = 3.419 dBm
RSSI = 34.033 dBm
RS Rx. Quality = -10.614 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
MSG
STATUS
Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:20:13 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 0 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.5518 %rms at
EVM Pk = 17.757 % at
Data EVM = 4.5798 %rms
- 3GPP-defined QPSK EVM = 4.2485 %rms
- 3GPP-defined 16QAM EVM = 5.2143 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.3035 %rms
Channel Power = 34.493 dBm
RS Tx. Power (Avg) = 3.376 dBm
OFDM Sym. Tx. Power = 33.914 dBm
RS Rx. Power (Avg) = 3.376 dBm
RSSI = 33.99 dBm
RS Rx. Quality = -10.614 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:15:41 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.5617 %rms at
EVM Pk = 19.927 % at
Data EVM = 4.5854 %rms
- 3GPP-defined QPSK EVM = 4.2406 %rms
- 3GPP-defined 16QAM EVM = 5.2213 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.3152 %rms
Channel Power = 34.446 dBm
RS Tx. Power (Avg) = 3.315 dBm
OFDM Sym. Tx. Power = 33.815 dBm
RS Rx. Power (Avg) = 3.315 dBm
RSSI = 33.927 dBm
RS Rx. Quality = -10.612 dB
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
06:09:13 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.7295 %rms at
EVM Pk = 18.958 % at
Data EVM = 4.7443 %rms
- 3GPP-defined QPSK EVM = 4.4133 %rms
- 3GPP-defined 16QAM EVM = 5.3637 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 4.5984 %rms
Channel Power = 34.288 dBm
RS Tx. Power (Avg) = 3.157 dBm
OFDM Sym. Tx. Power = 33.656 dBm
RS Rx. Power (Avg) = 3.157 dBm
RSSI = 33.769 dBm
RS Rx. Quality = -10.612 dB
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:26:22 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.3109 %rms at
EVM Pk = 16.269 % at
Data EVM = 4.3212 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.3210 %rms
RS EVM = 4.3853 %rms
Channel Power = 34.758 dBm
RS Tx. Power (Avg) = 3.37 dBm
OFDM Sym. Tx. Power = 34.123 dBm
RS Rx. Power (Avg) = 3.37 dBm
RSSI = 34.147 dBm
RS Rx. Quality = -10.777 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS
Agilent LTE TDD - Modulation Analysis
Center Freq 2.605000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:32:16 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.605 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.3309 %rms at
EVM Pk = 17.773 % at
Data EVM = 4.3349 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.3341 %rms
RS EVM = 4.3978 %rms
Channel Power = 34.736 dBm
RS Tx. Power (Avg) = 3.347 dBm
OFDM Sym. Tx. Power = 34.103 dBm
RS Rx. Power (Avg) = 3.347 dBm
RSSI = 34.126 dBm
RS Rx. Quality = -10.779 dB
Center Freq
2.605000000 GHz
Start Freq
2.593000000 GHz
Stop Freq
2.617000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -32.70 dB
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-3.292
3.292
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
Ch1 Spectrum
10 dB/div Ref 30 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.5117 %rms at EVM Window
EVM Pk = 18.344 % at sym 133, su
Data EVM = 4.5123 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.5058 %rms
RS EVM = 4.6609 %rms
Channel Power = 34.878 dBm
RS Tx. Power (Avg) = 3.491 dBm
OFDM Sym. Tx. Power = 34.239 dBm
RS Rx. Power (Avg) = 3.491 dBm
RSSI = 34.268 dBm
RS Rx. Quality = -10.777 dB
MSG
STATUS
Agilent LTE TDD - Modulation Analysis
Center Freq 2.625000000 GHz
Trig: External 1
Range: 12.00 dBm
Avg|Off
Ext Gain: -32.70 dB
05:33:41 PM Sep 17, 2015
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 0
-2.643
2.6429
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 0 %
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Center Freq
2.625000000 GHz
Start Freq
2.613000000 GHz
Stop Freq
2.637000000 GHz
CF Step
2.400000 MHz
Auto
Man
Ch1 Spectrum
15 dB/div Ref 15 dBm
Center 2.625 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 4.3394 %rms at
EVM Pk = 19.009 % at
Data EVM = 4.3469 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 4.3304 %rms
RS EVM = 4.4001 %rms
Channel Power = 34.63 dBm
RS Tx. Power (Avg) = 3.236 dBm
OFDM Sym. Tx. Power = 34.023 dBm
RS Rx. Power (Avg) = 3.236 dBm
RSSI = 34.036 dBm
RS Rx. Quality = -10.8 dB
MSG
STATUS

6 OCCUPIED BANDWIDTH

Applicable Standard: FCC §2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY51240259	2014.12.01	2015.12.01

*__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 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

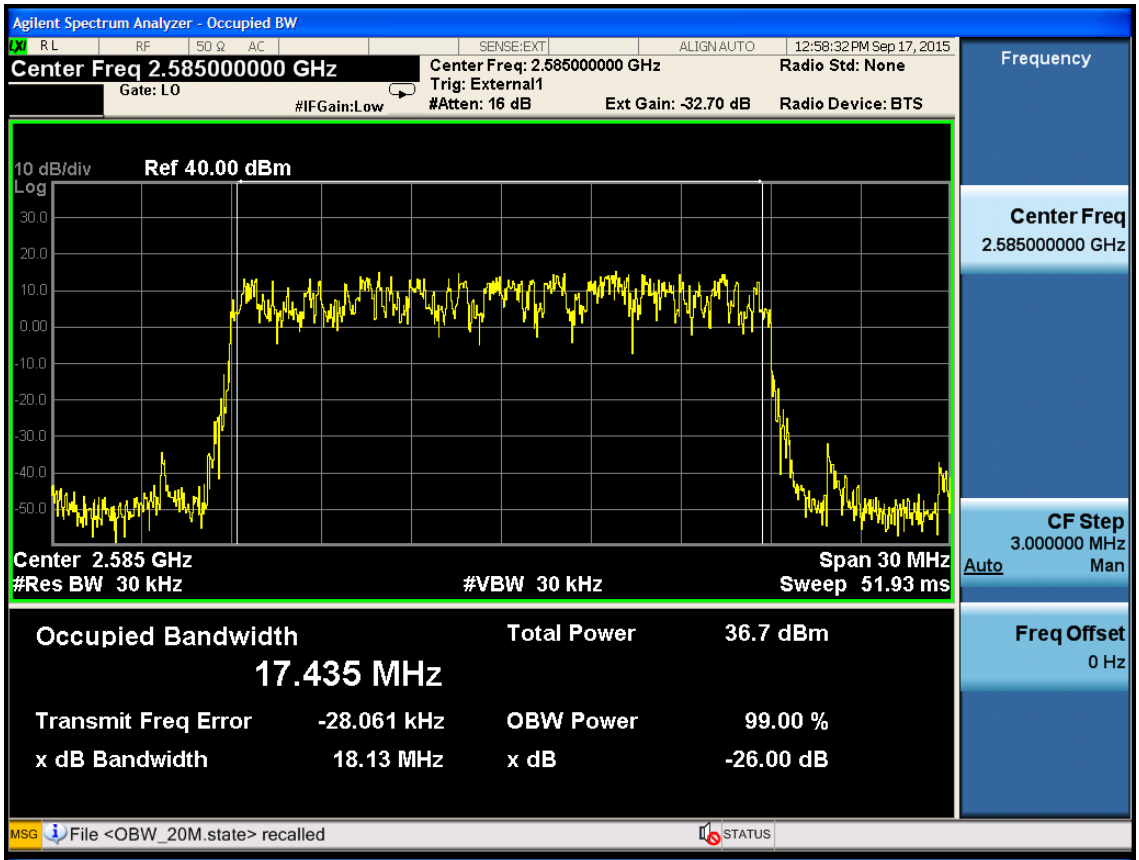
Test Mode: Transmitting LTE

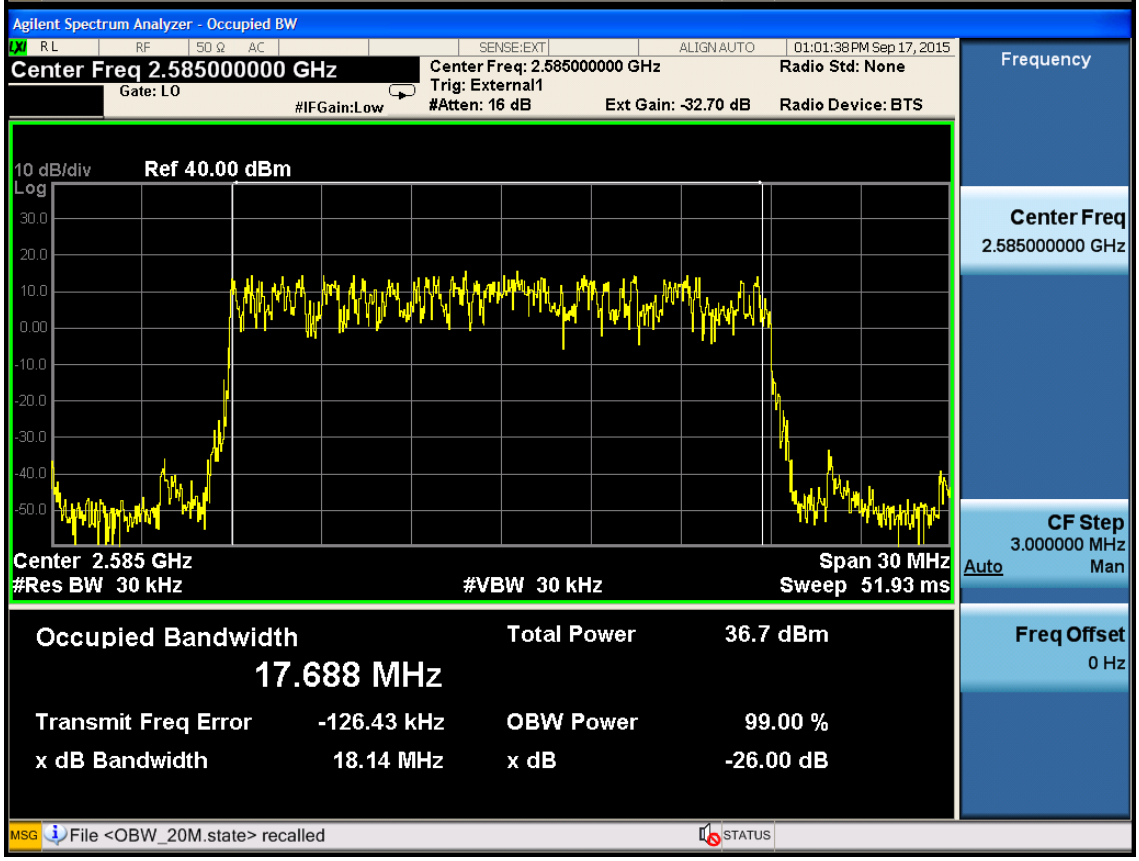
Test Data

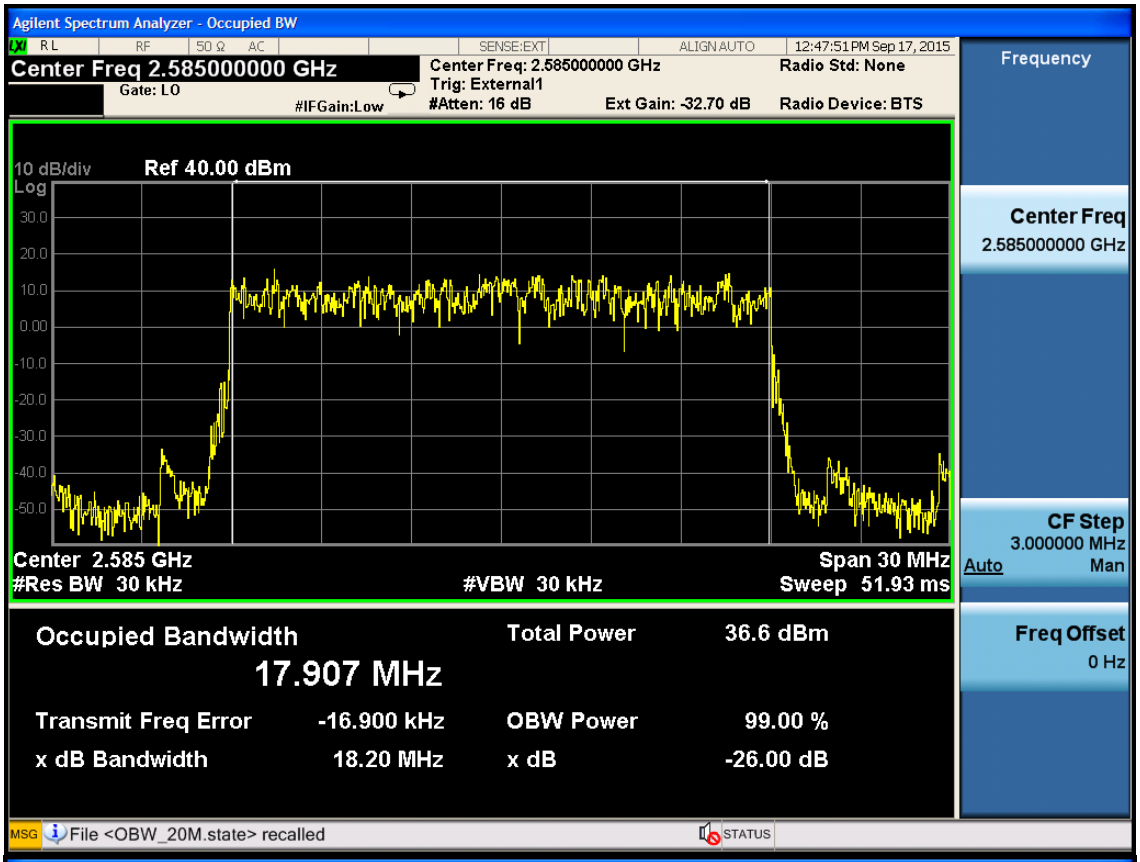
One Carrier

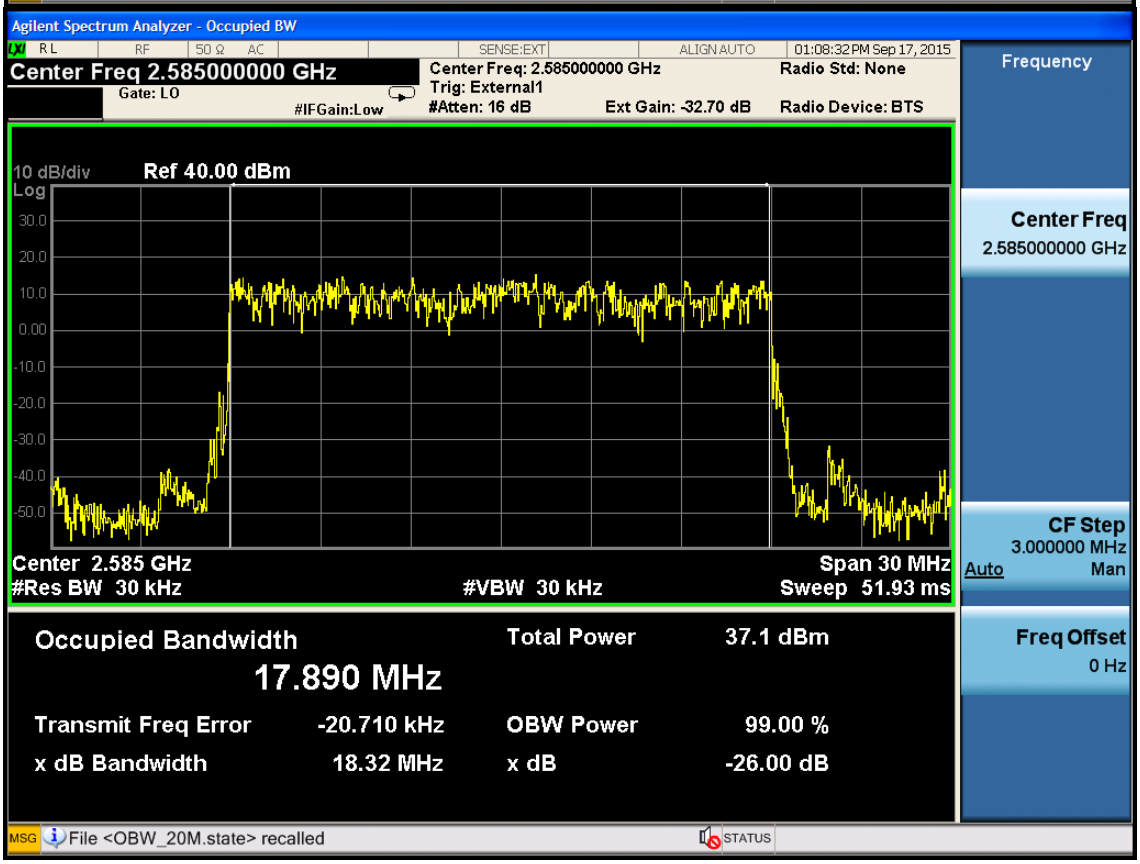
Channel Bandwidth: 20M

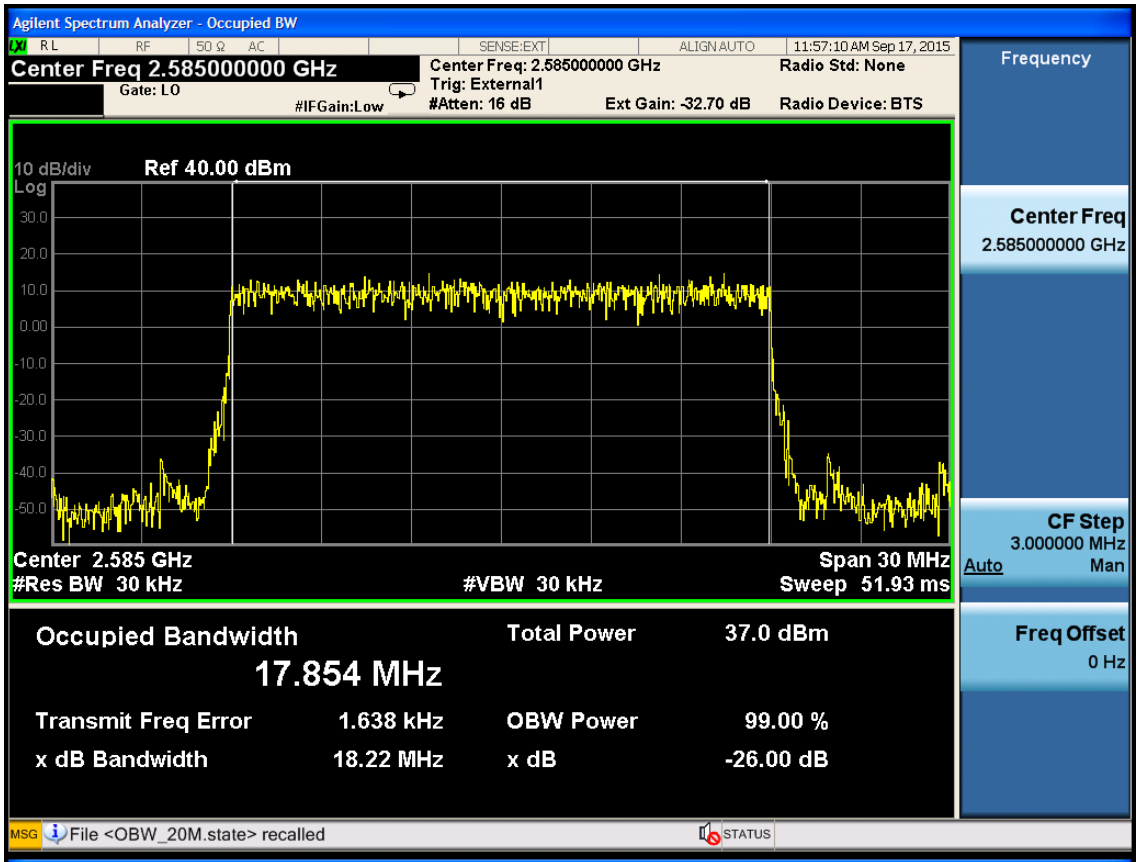
Port	Carrier Freq(MHz)	Occupied Bandwidth(MHz)		
		QPSK	16QAM	64QAM
0	2585	17.44	17.91	17.85
1		17.69	17.89	17.85
0	2605	17.44	17.89	17.86
1		17.44	17.91	17.86
0	2625	17.44	17.89	17.86
1		17.68	17.89	17.86

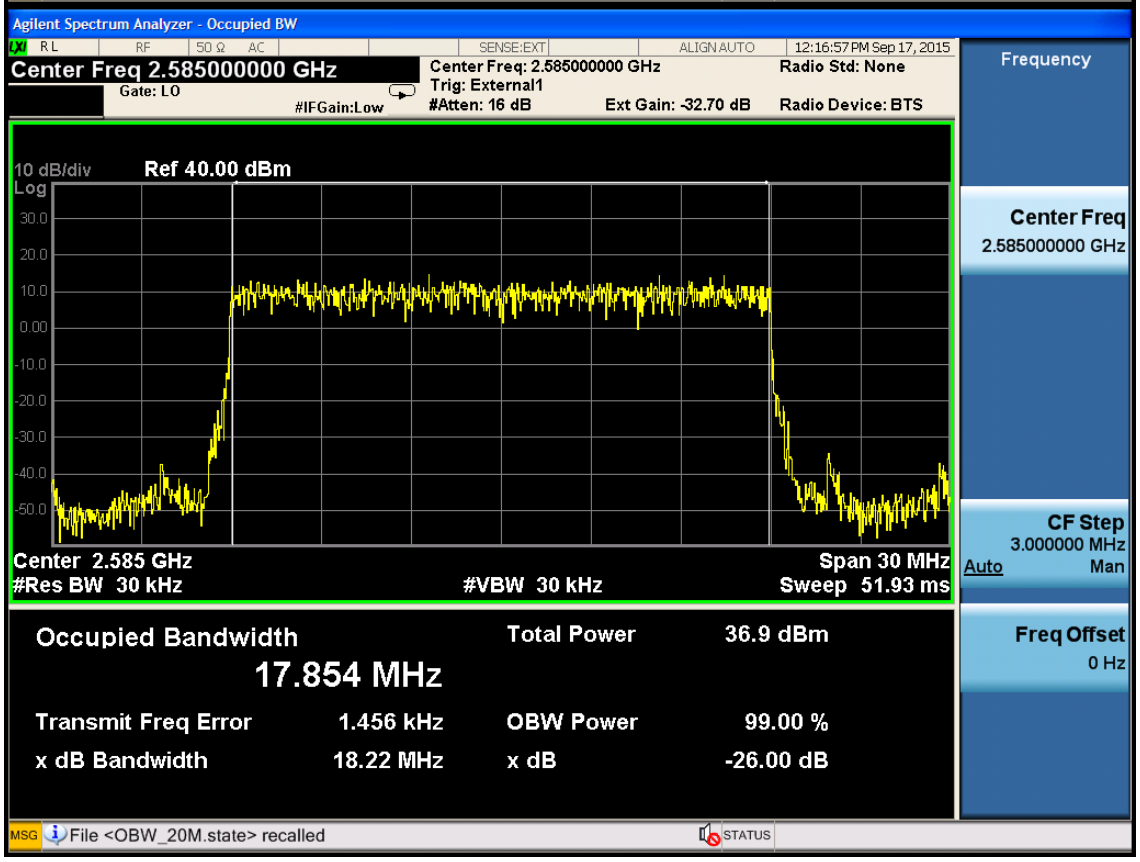

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
12:58:32 PM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.435 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-28.061 kHz
OBW Power
99.00 %
x dB Bandwidth
18.13 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

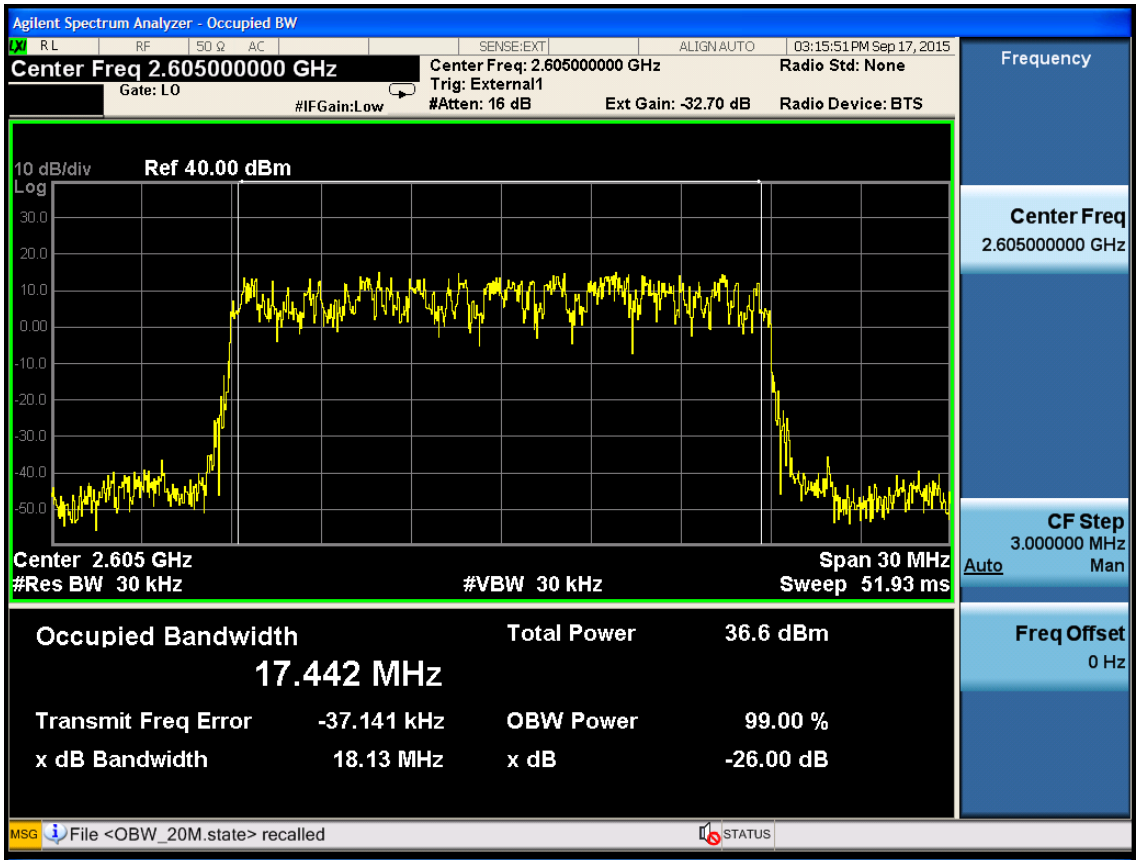

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
01:01:38 PM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.688 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-126.43 kHz
OBW Power
99.00 %
x dB Bandwidth
18.14 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

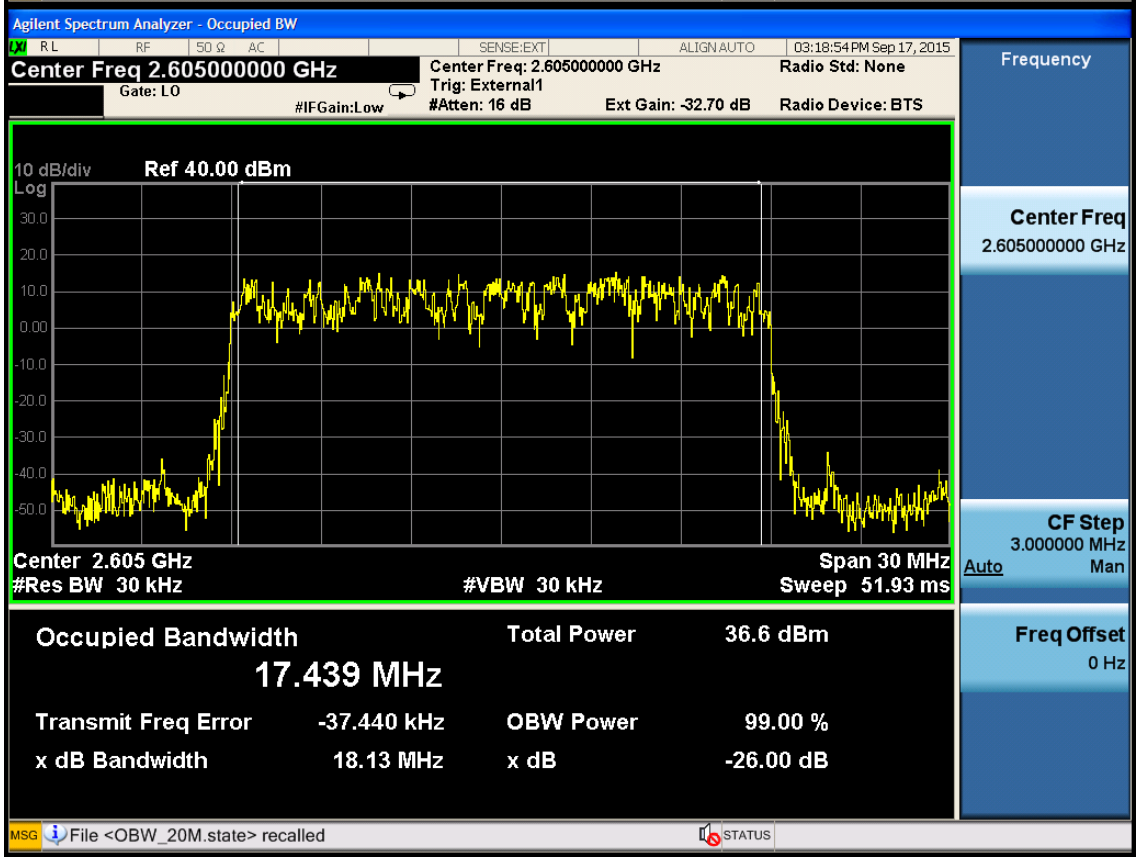

Agilent Spectrum Analyzer - Occupied BW
RL RF 50 Ω AC SENSE:EXT ALIGN AUTO 12:47:51 PM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.907 MHz
Total Power 36.6 dBm
Transmit Freq Error -16.900 kHz
OBW Power 99.00 %
x dB Bandwidth 18.20 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
File <OBW_20M.state> recalled
STATUS

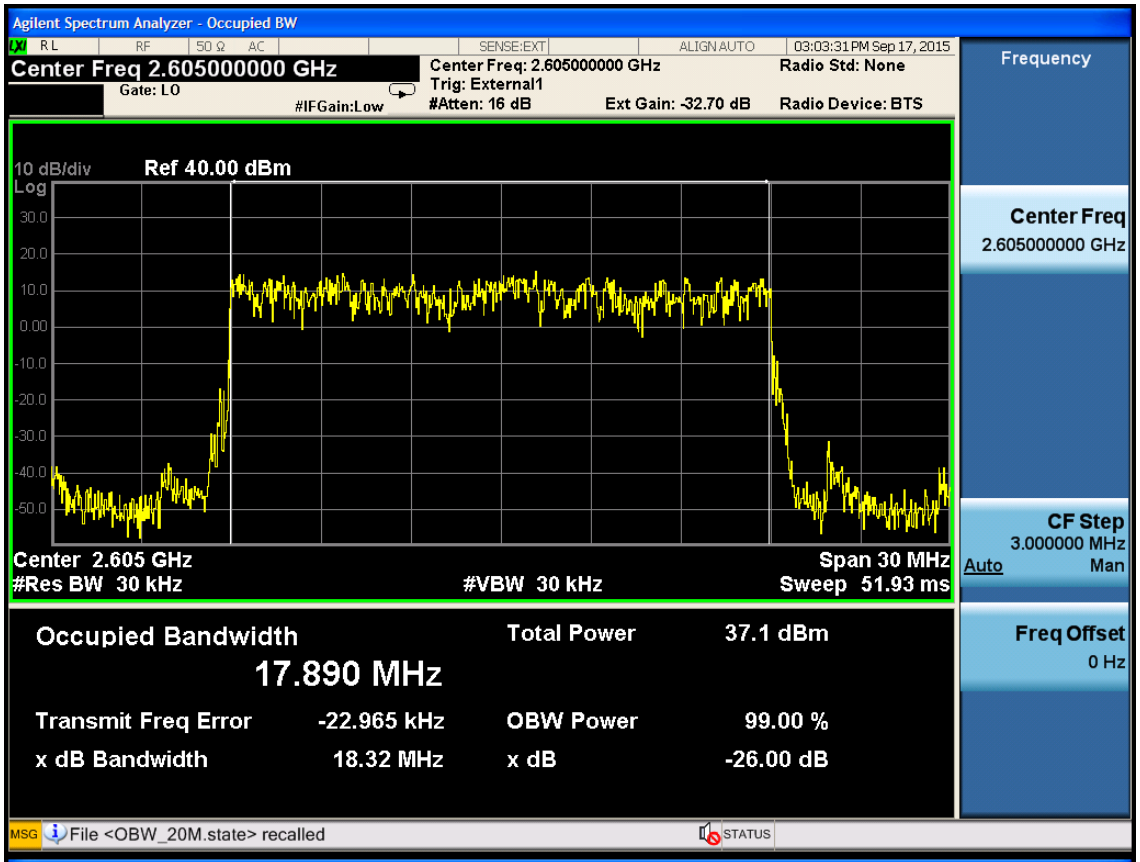

Agilent Spectrum Analyzer - Occupied BW
RL RF 50 Ω AC SENSE:EXT ALIGN AUTO 01:08:32 PM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.890 MHz
Total Power 37.1 dBm
Transmit Freq Error -20.710 kHz
OBW Power 99.00 %
x dB Bandwidth 18.32 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
File <OBW_20M.state> recalled
STATUS

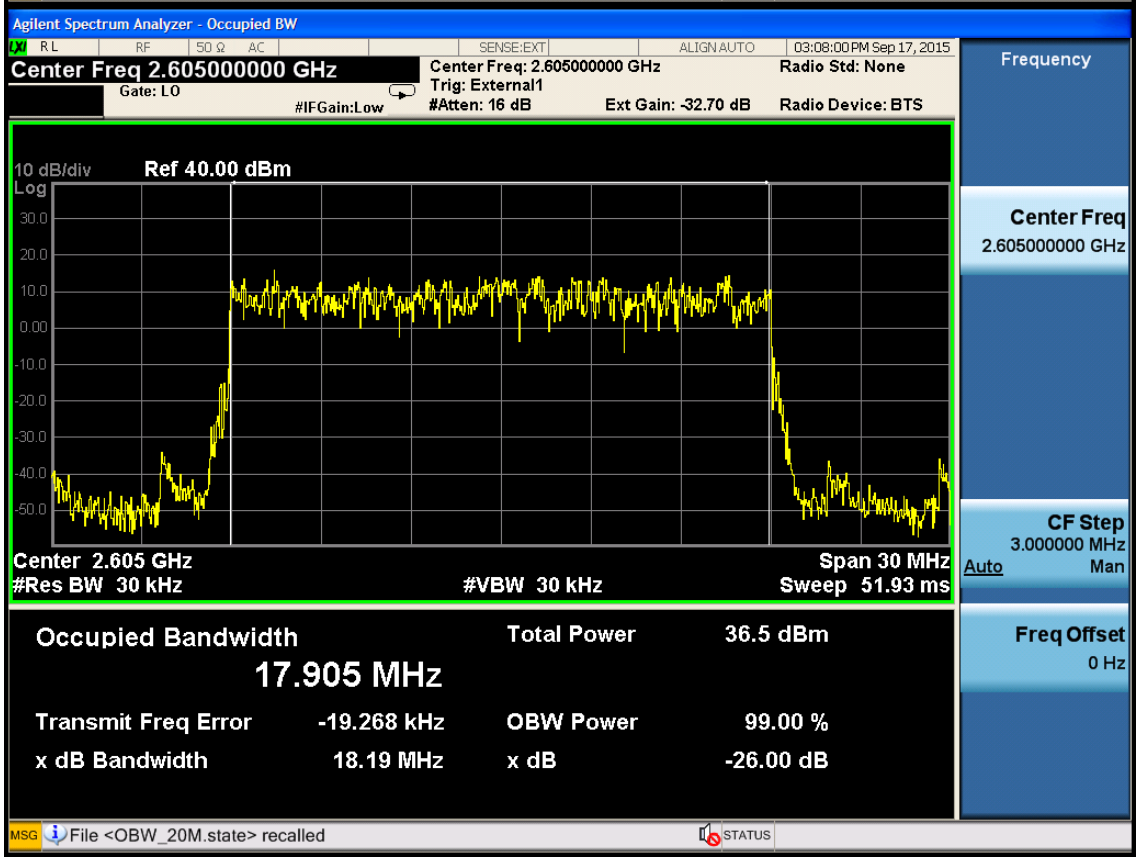

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
11:57:10 AM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.854 MHz
Total Power
37.0 dBm
Freq Offset
0 Hz
Transmit Freq Error
1.638 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

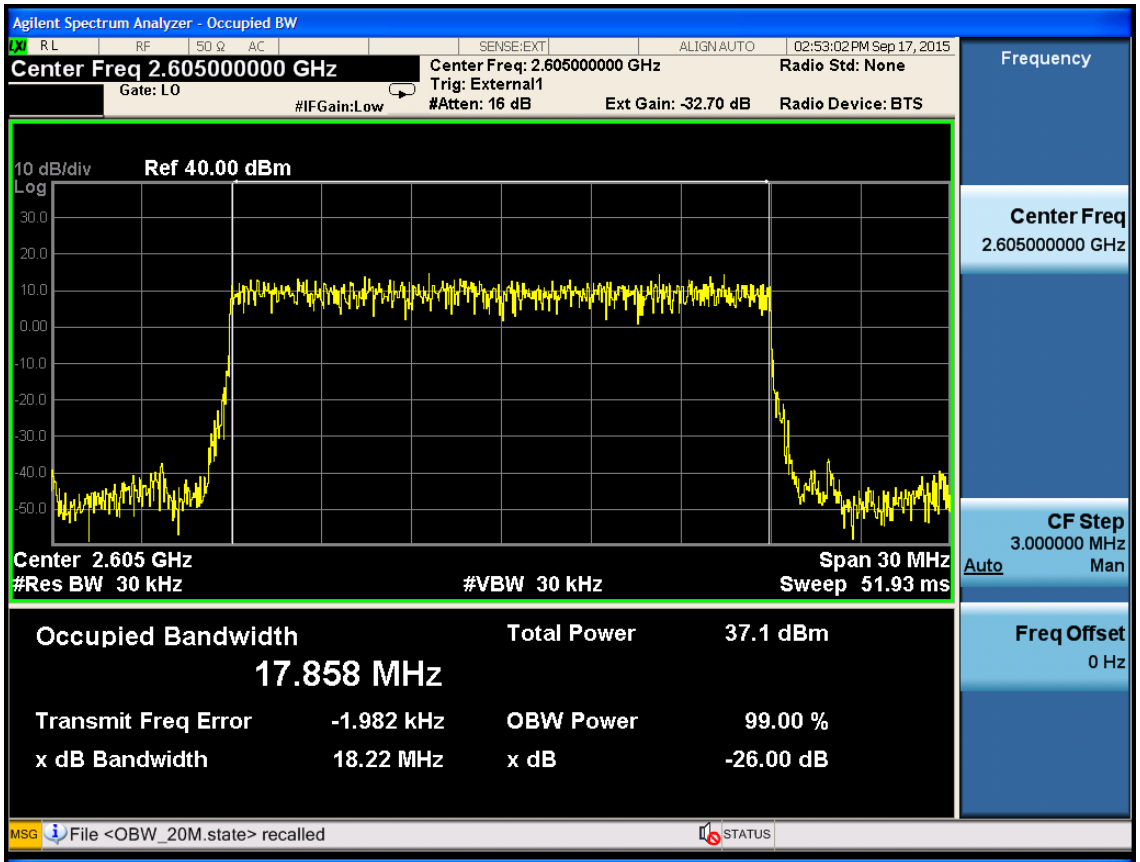

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
12:16:57 PM Sep 17, 2015
Center Freq 2.585000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.585000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.585000000 GHz
Center 2.585 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.854 MHz
Total Power
36.9 dBm
Freq Offset
0 Hz
Transmit Freq Error
1.456 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

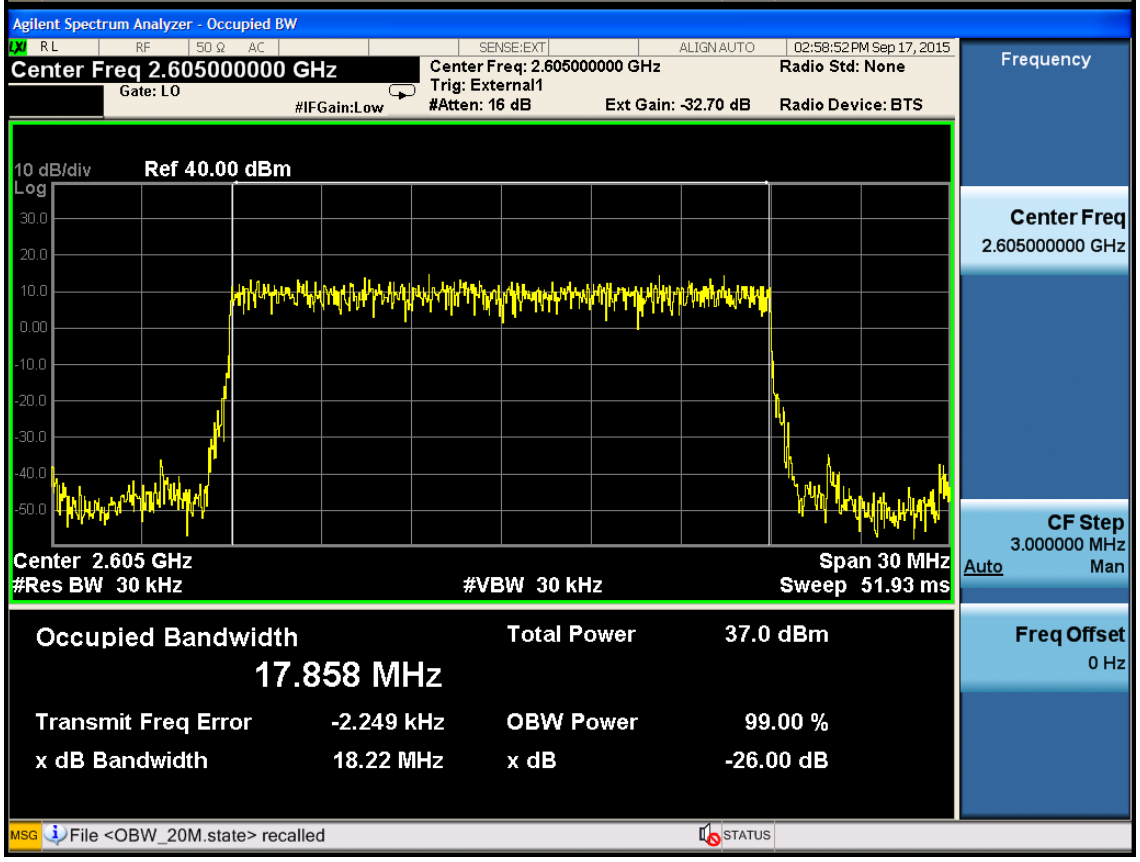

Agilent Spectrum Analyzer - Occupied BW
RL RF 50 Ω AC SENSE:EXT ALIGN AUTO 03:15:51 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.442 MHz
Total Power 36.6 dBm
Transmit Freq Error -37.141 kHz
OBW Power 99.00 %
x dB Bandwidth 18.13 MHz
x dB -26.00 dB
Center Freq
2.605000000 GHz
CF Step
3.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG File <OBW_20M.state> recalled
STATUS

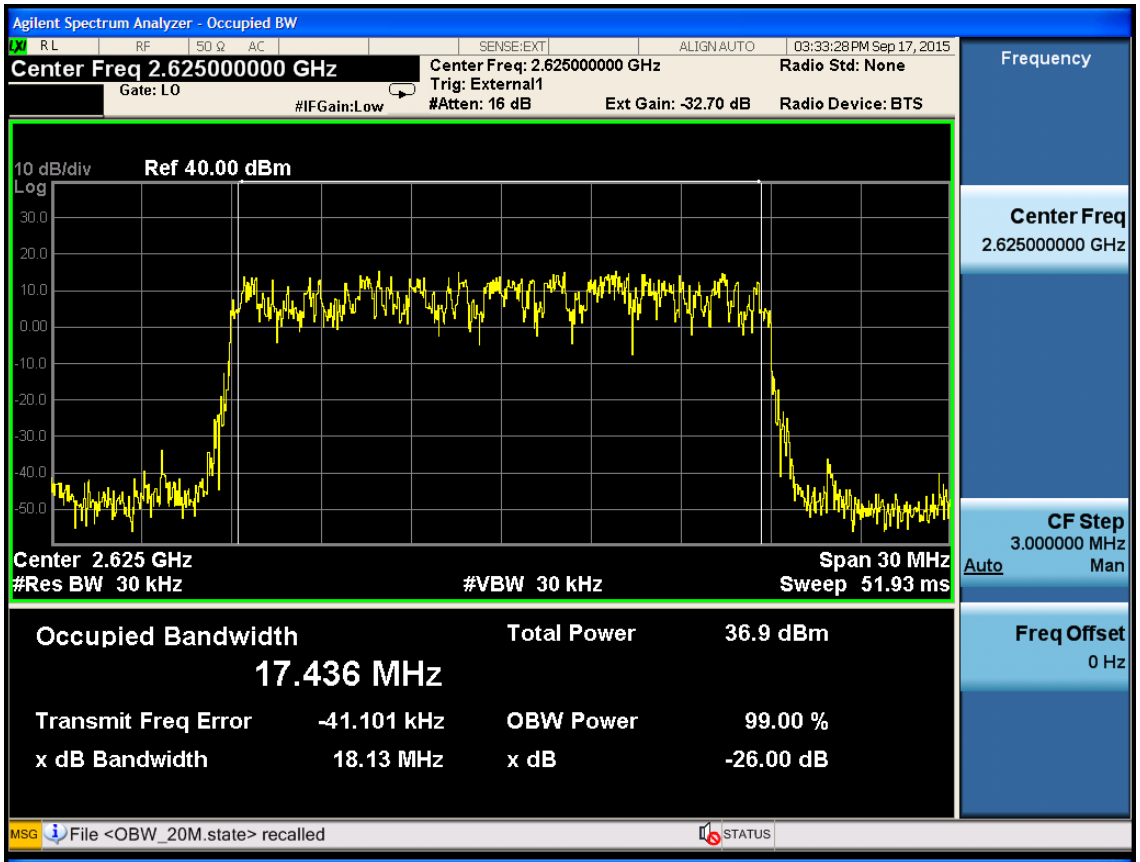

Agilent Spectrum Analyzer - Occupied BW
RL RF 50 Ω AC SENSE:EXT ALIGN AUTO 03:18:54 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.439 MHz
Total Power 36.6 dBm
Transmit Freq Error -37.440 kHz
OBW Power 99.00 %
x dB Bandwidth 18.13 MHz
x dB -26.00 dB
Center Freq
2.605000000 GHz
CF Step
3.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG File <OBW_20M.state> recalled
STATUS

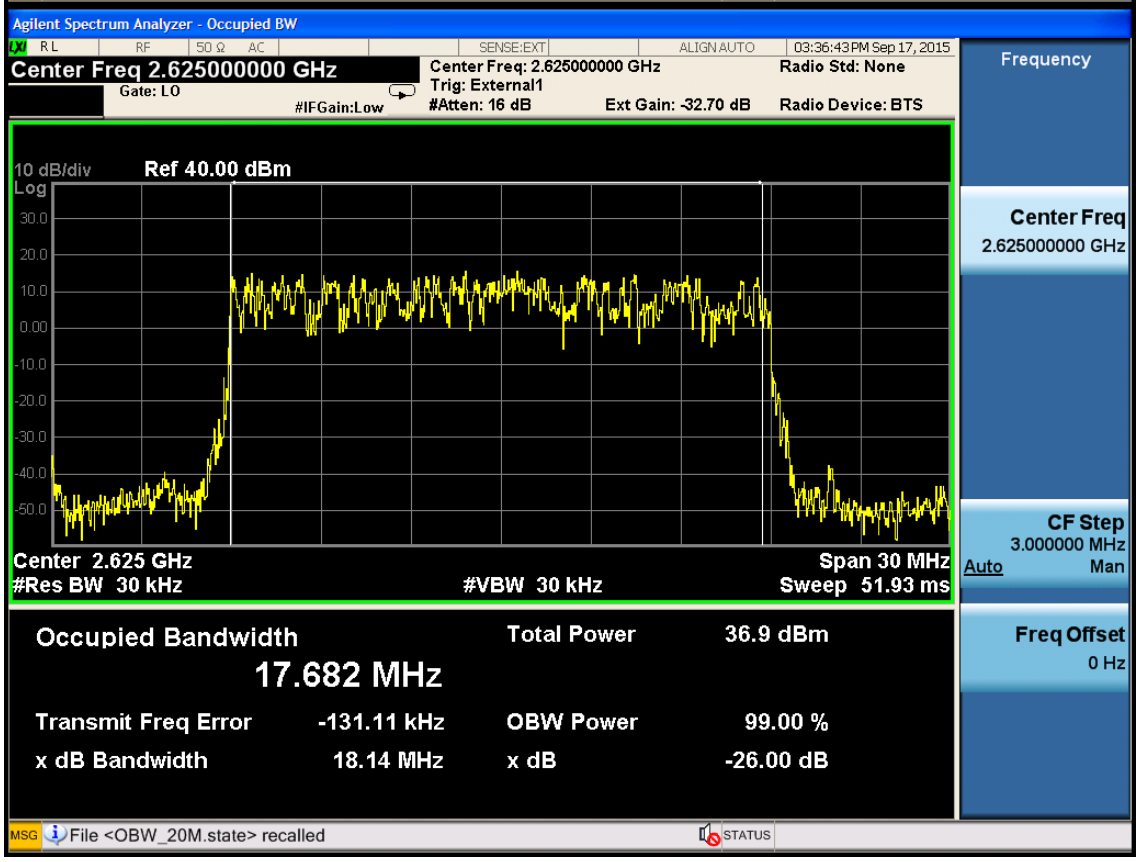

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:03:31 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.605000000 GHz
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.890 MHz
Total Power
37.1 dBm
Freq Offset
0 Hz
Transmit Freq Error
-22.965 kHz
OBW Power
99.00 %
x dB Bandwidth
18.32 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

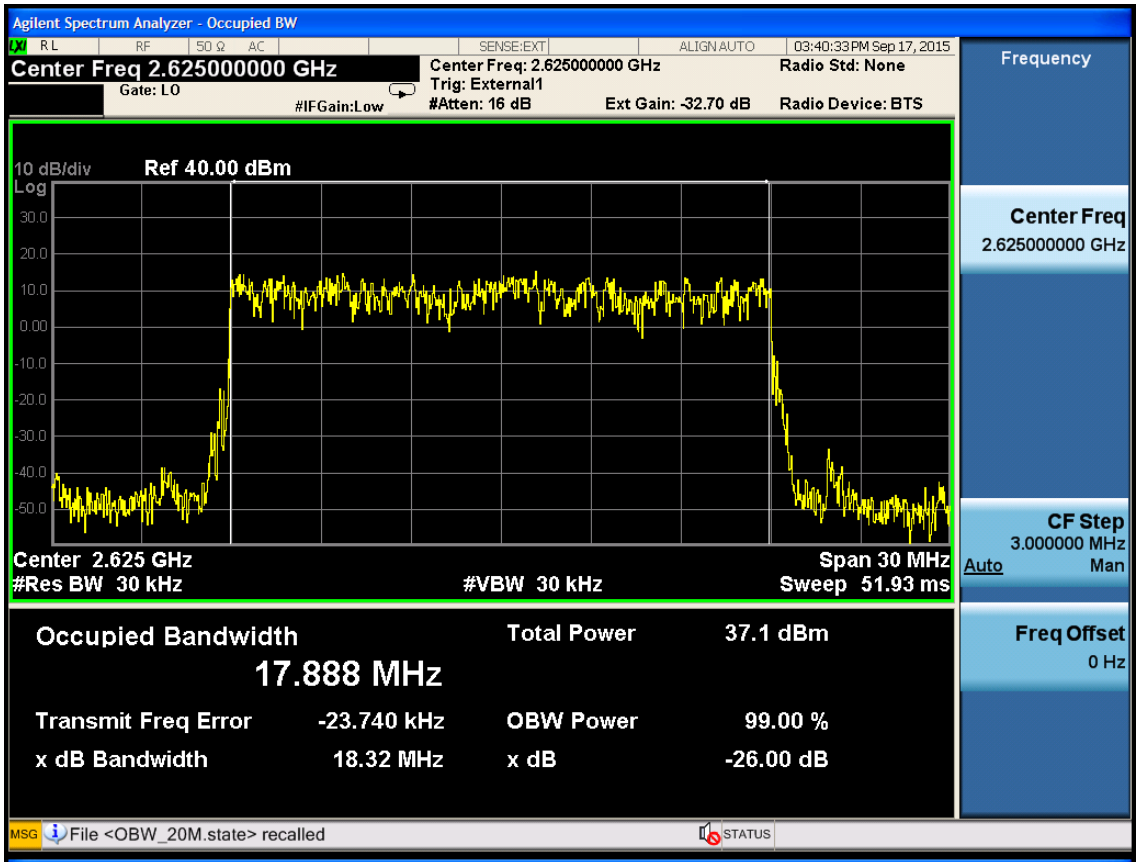

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:08:00 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.605000000 GHz
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.905 MHz
Total Power
36.5 dBm
Freq Offset
0 Hz
Transmit Freq Error
-19.268 kHz
OBW Power
99.00 %
x dB Bandwidth
18.19 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

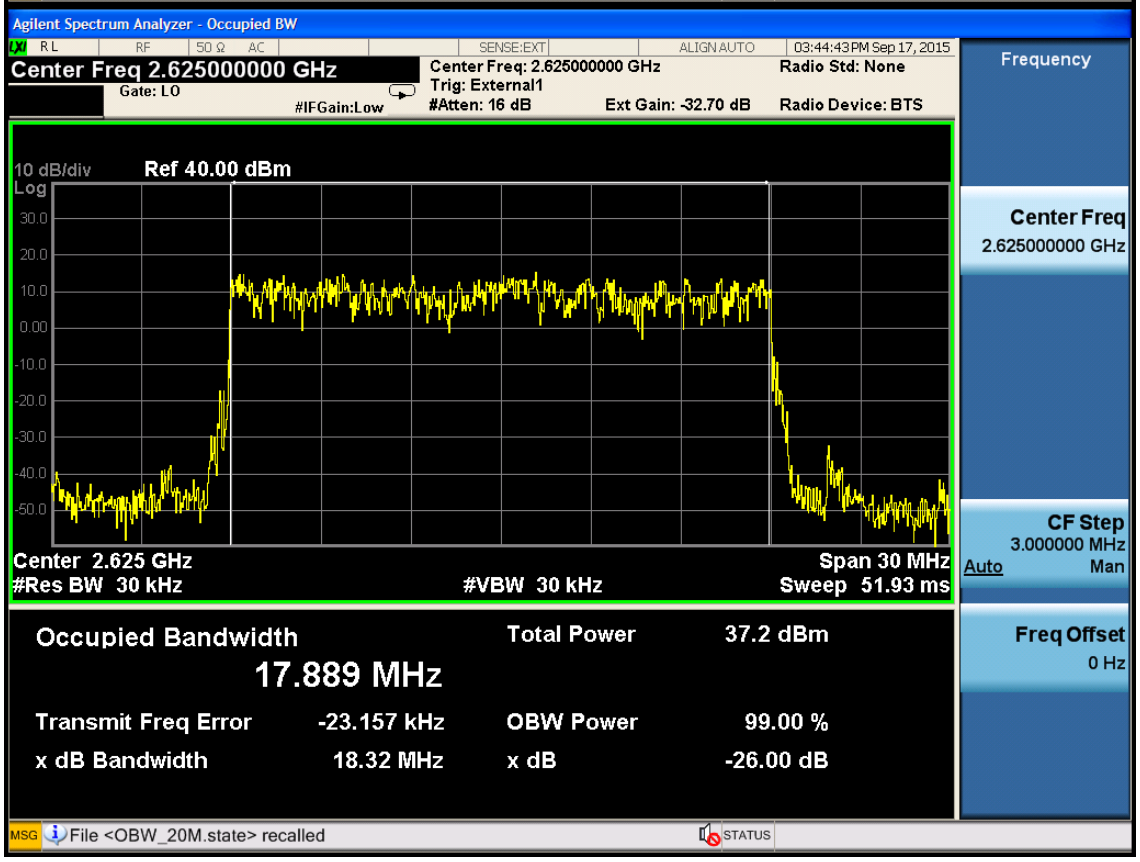

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
02:53:02 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.605000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.858 MHz
Total Power
37.1 dBm
Transmit Freq Error
-1.982 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

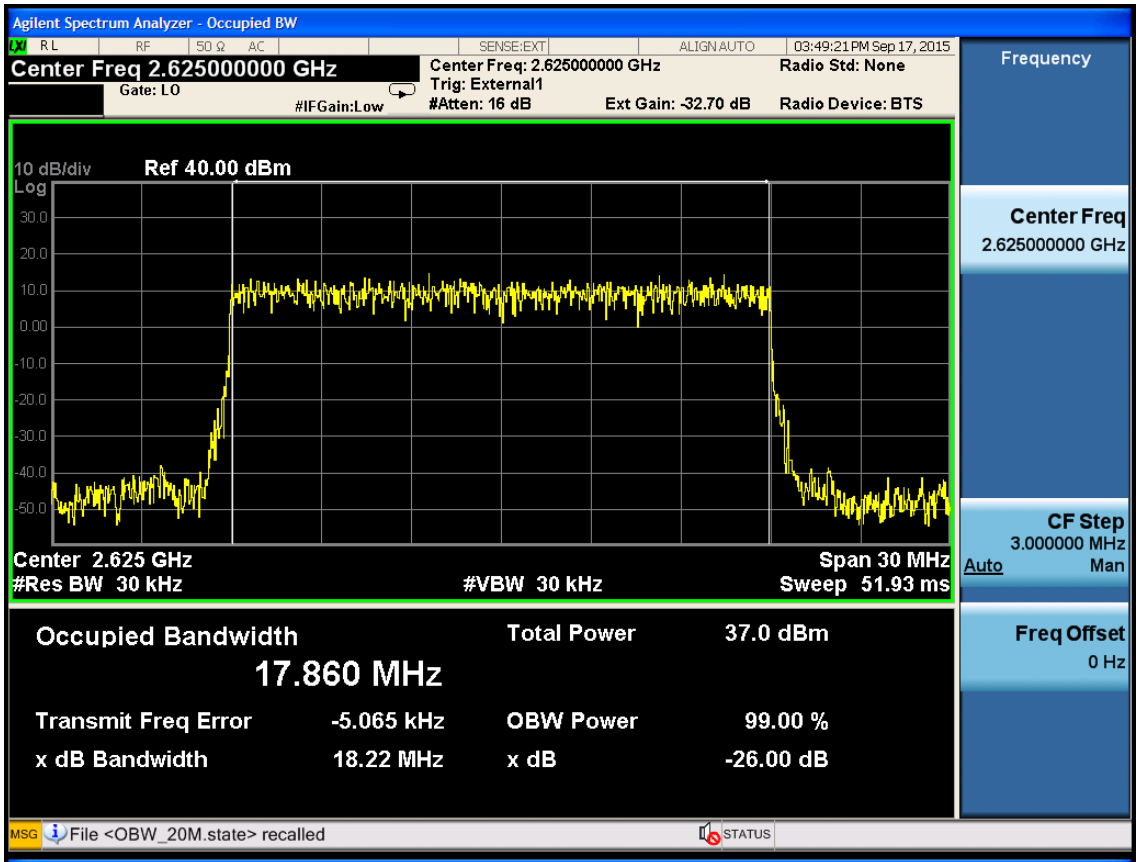

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
02:58:52 PM Sep 17, 2015
Center Freq 2.605000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.605000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.605 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.605000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.858 MHz
Total Power
37.0 dBm
Transmit Freq Error
-2.249 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

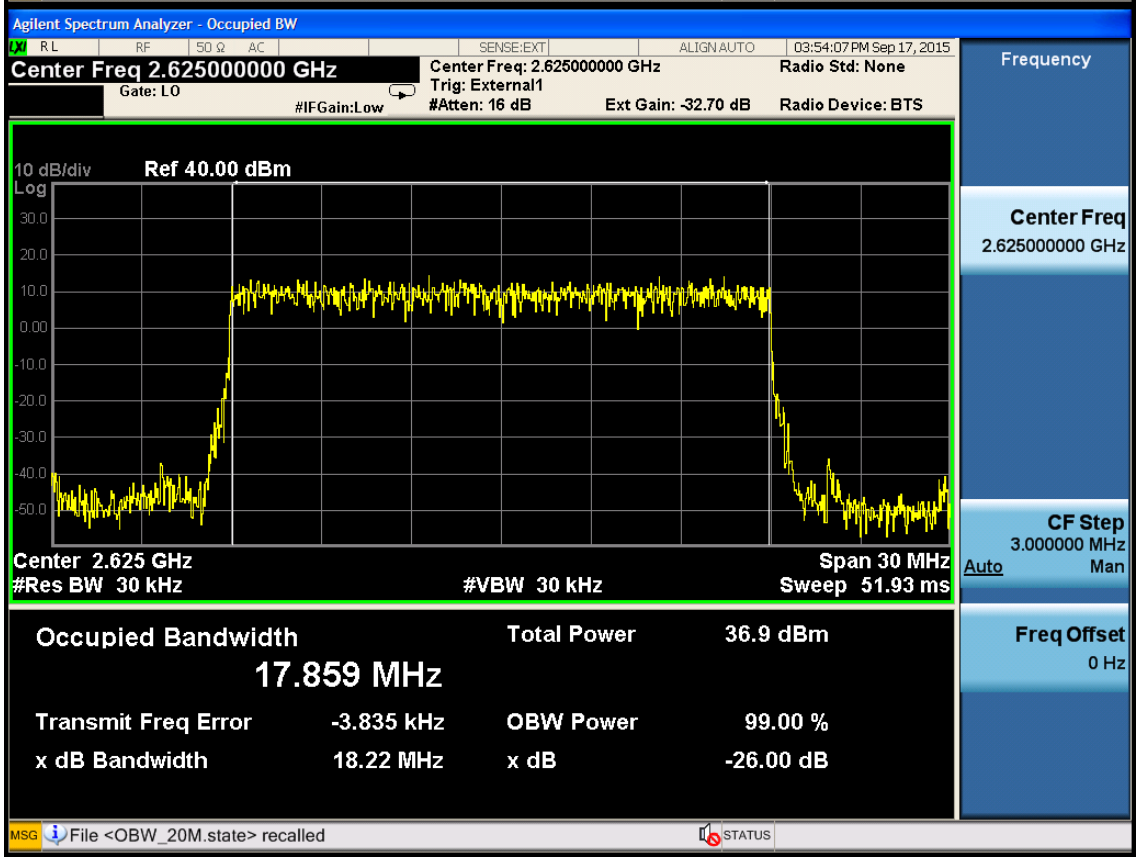

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:33:28 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.436 MHz
Total Power
36.9 dBm
Transmit Freq Error
-41.101 kHz
OBW Power
99.00 %
x dB Bandwidth
18.13 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
File <OBW_20M.state> recalled
STATUS


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:36:43 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.682 MHz
Total Power
36.9 dBm
Transmit Freq Error
-131.11 kHz
OBW Power
99.00 %
x dB Bandwidth
18.14 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
File <OBW_20M.state> recalled
STATUS


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:40:33 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.888 MHz
Total Power
37.1 dBm
Transmit Freq Error
-23.740 kHz
OBW Power
99.00 %
x dB Bandwidth
18.32 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:44:43 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.889 MHz
Total Power
37.2 dBm
Transmit Freq Error
-23.157 kHz
OBW Power
99.00 %
x dB Bandwidth
18.32 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

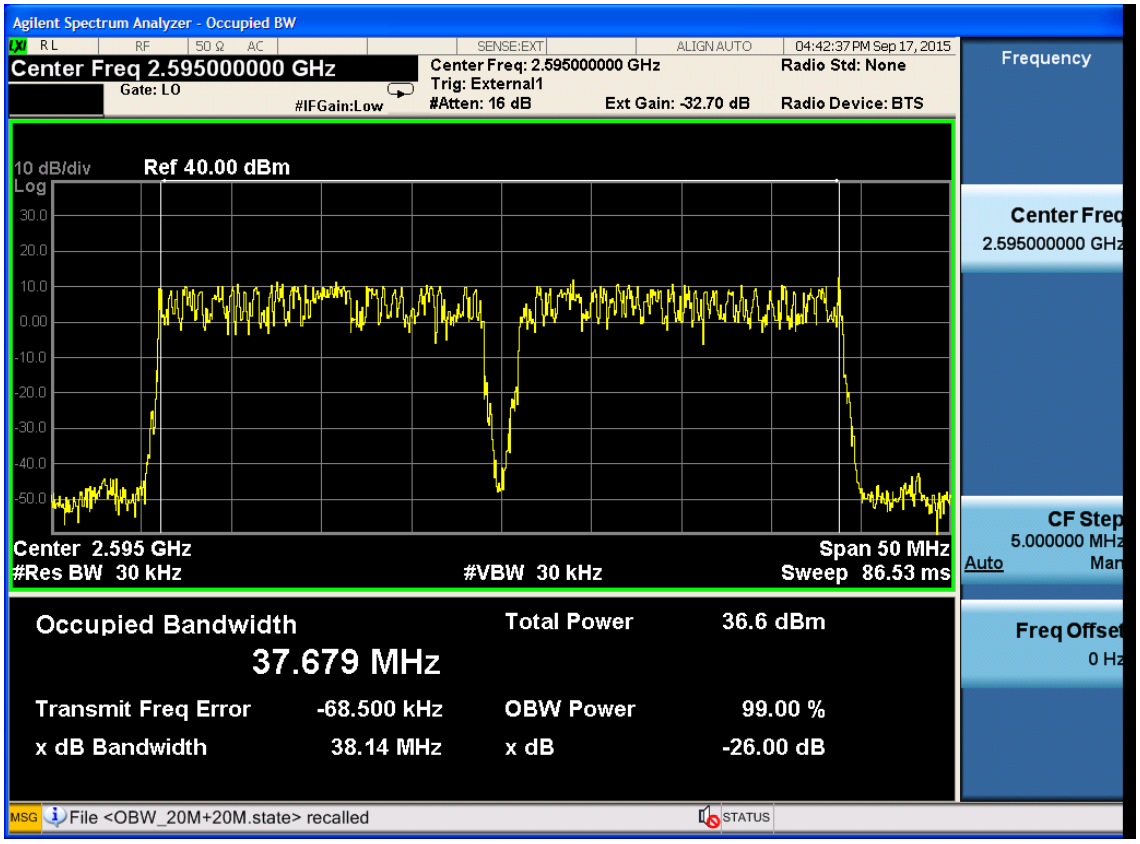

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:49:21 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.860 MHz
Total Power
37.0 dBm
Transmit Freq Error
-5.065 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

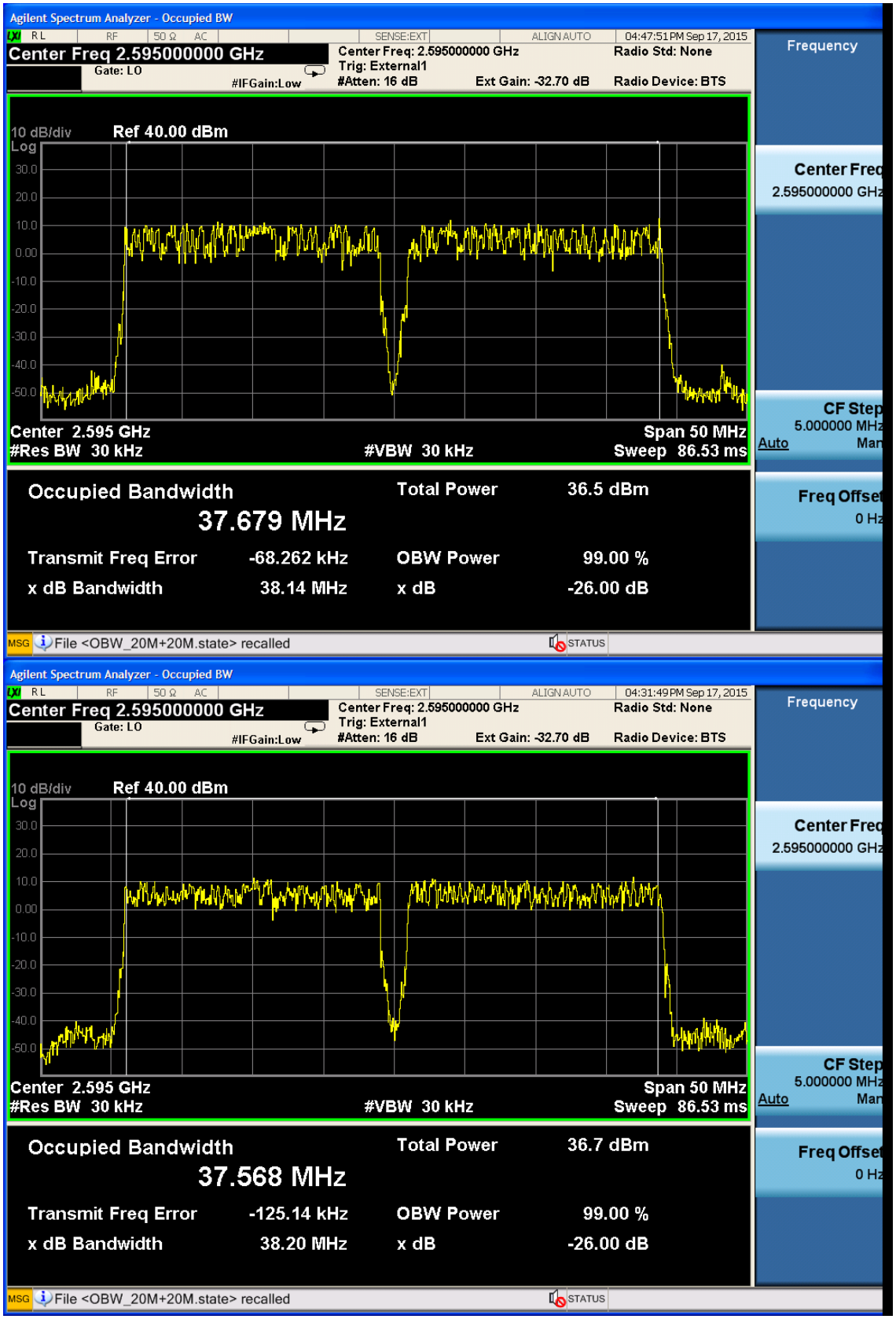

Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:54:07 PM Sep 17, 2015
Center Freq 2.625000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.625000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 2.625 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Center Freq
2.625000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.859 MHz
Total Power
36.9 dBm
Transmit Freq Error
-3.835 kHz
OBW Power
99.00 %
x dB Bandwidth
18.22 MHz
x dB
-26.00 dB
MSG
File <OBW_20M.state> recalled
STATUS

Two Carrier

Channel Bandwidth: 20M+20M

Port	Carrier Freq. c1+c2(MHz)	Occupied Bandwidth(MHz)		
		QPSK	16QAM	64QAM
0	2585+2605	37.68	37.57	37.7
1		37.68	37.66	37.7
0	2605+2625	37.54	37.61	37.67
1		37.64	37.63	37.66




Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
04:47:51 PM Sep 17, 2015
Center Freq 2.595000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.595000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.595000000 GHz
Center 2.595 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 50 MHz
Sweep 86.53 ms
CF Step
5.000000 MHz
Auto
Man
Occupied Bandwidth
37.679 MHz
Total Power
36.5 dBm
Freq Offset
0 Hz
Transmit Freq Error
-68.262 kHz
OBW Power
99.00 %
x dB Bandwidth
38.14 MHz
x dB
-26.00 dB
MSG
File <OBW_20M+20M.state> recalled
STATUS
Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
04:31:49 PM Sep 17, 2015
Center Freq 2.595000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.595000000 GHz
Trig: External1
#Atten: 16 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center Freq
2.595000000 GHz
Center 2.595 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 50 MHz
Sweep 86.53 ms
CF Step
5.000000 MHz
Auto
Man
Occupied Bandwidth
37.568 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-125.14 kHz
OBW Power
99.00 %
x dB Bandwidth
38.20 MHz
x dB
-26.00 dB
MSG
File <OBW_20M+20M.state> recalled
STATUS