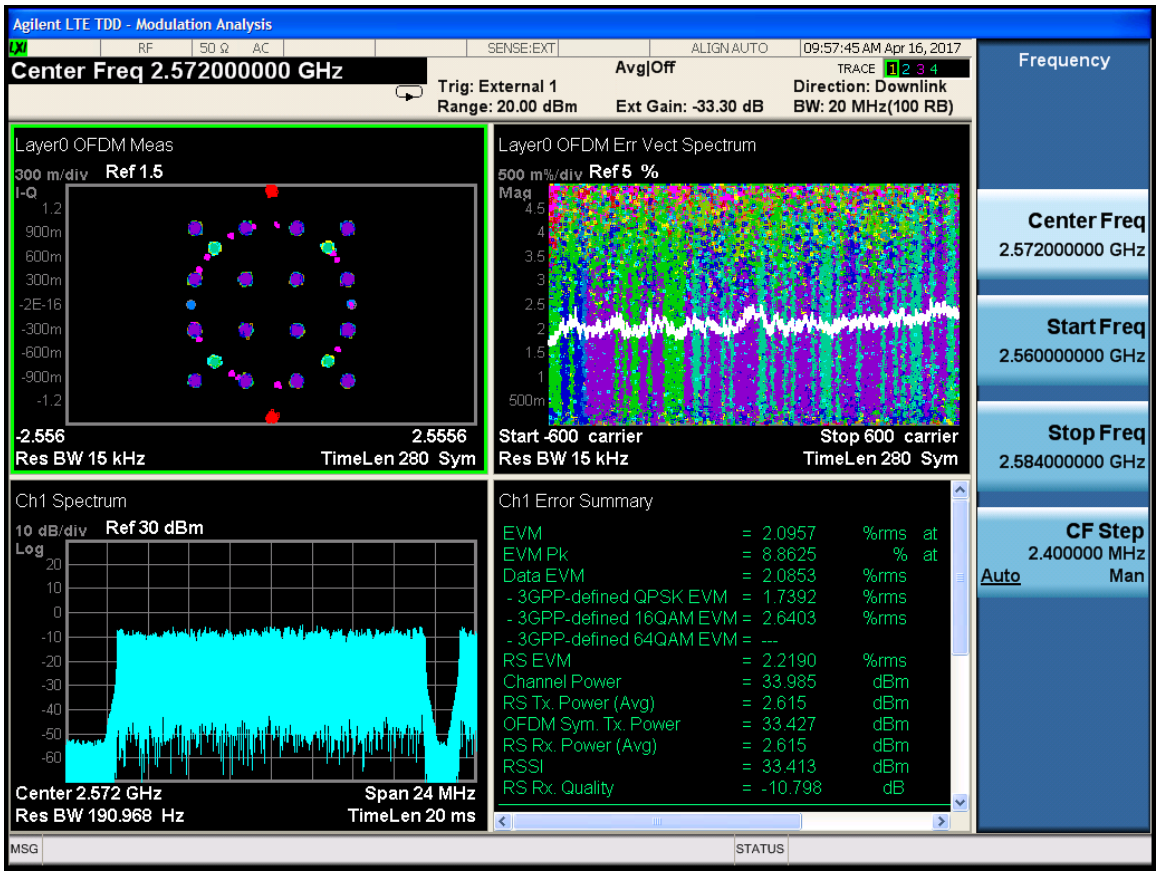
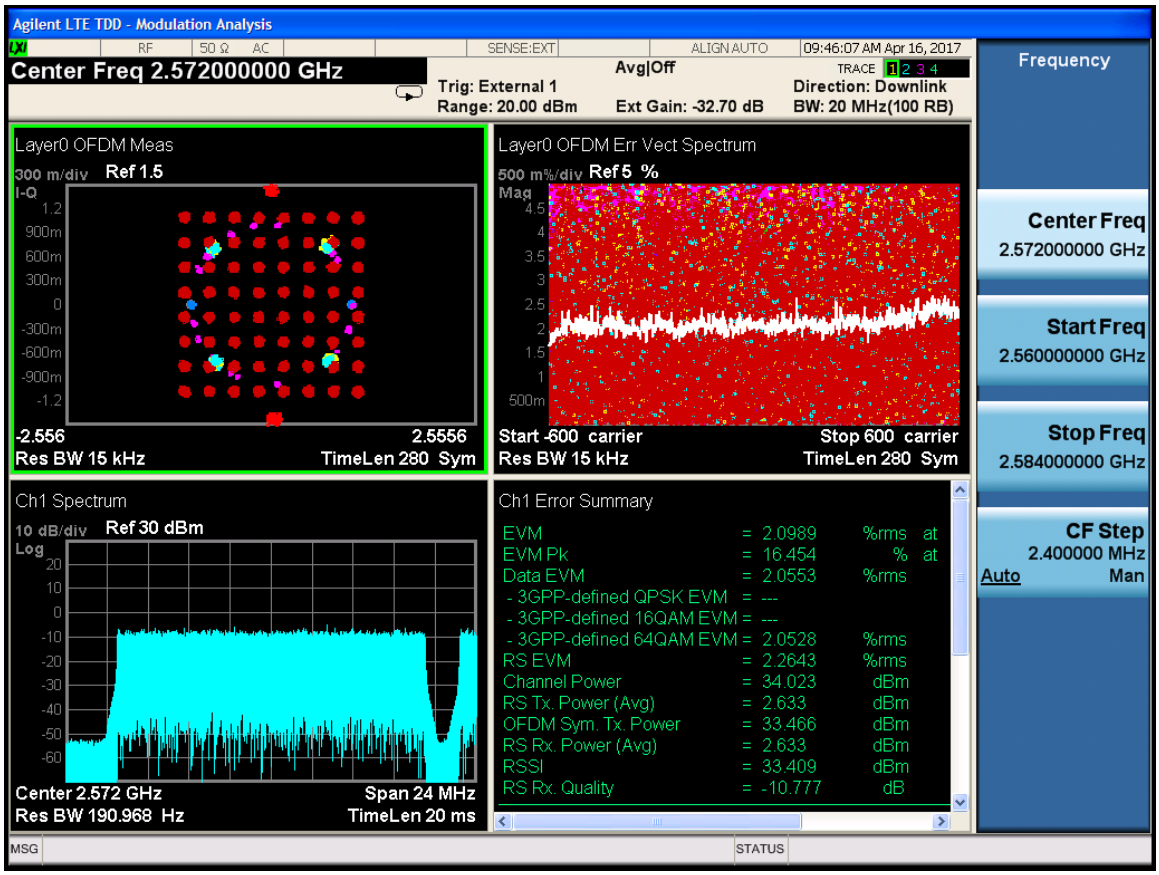
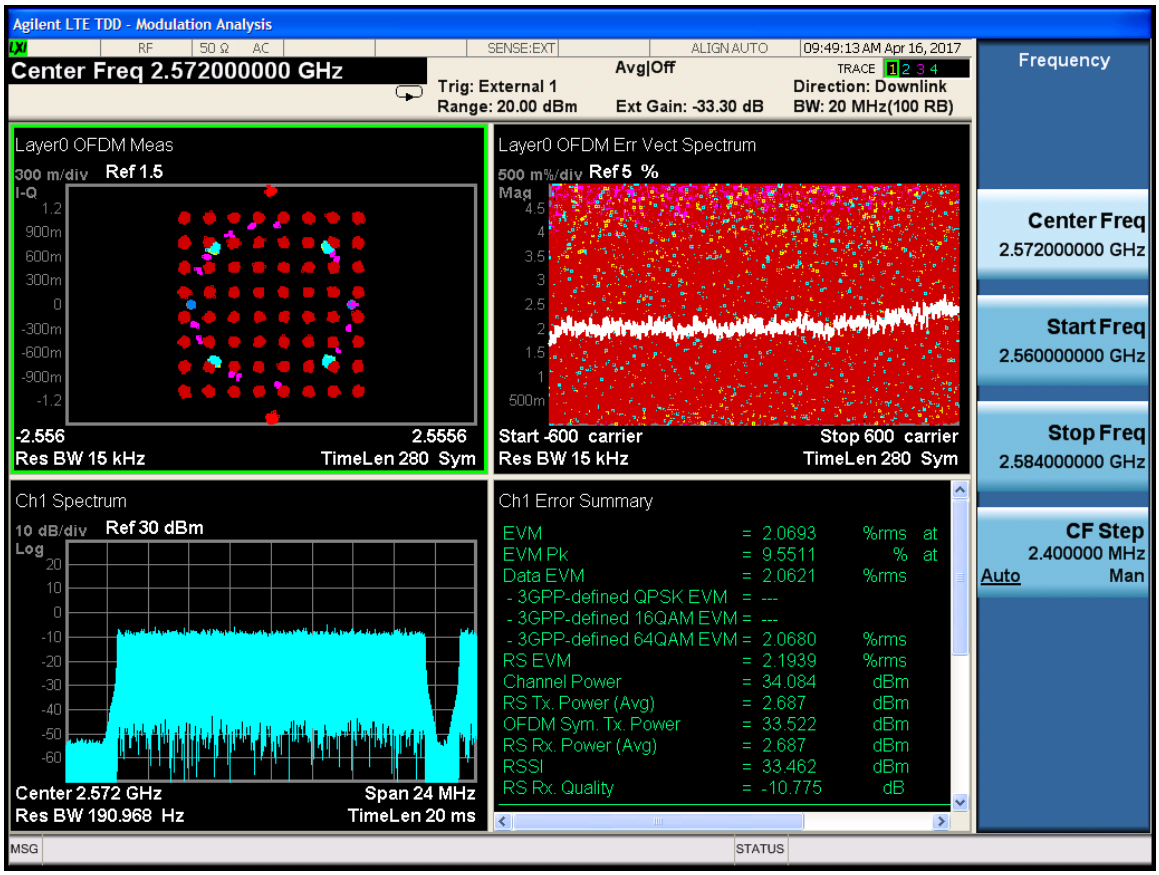
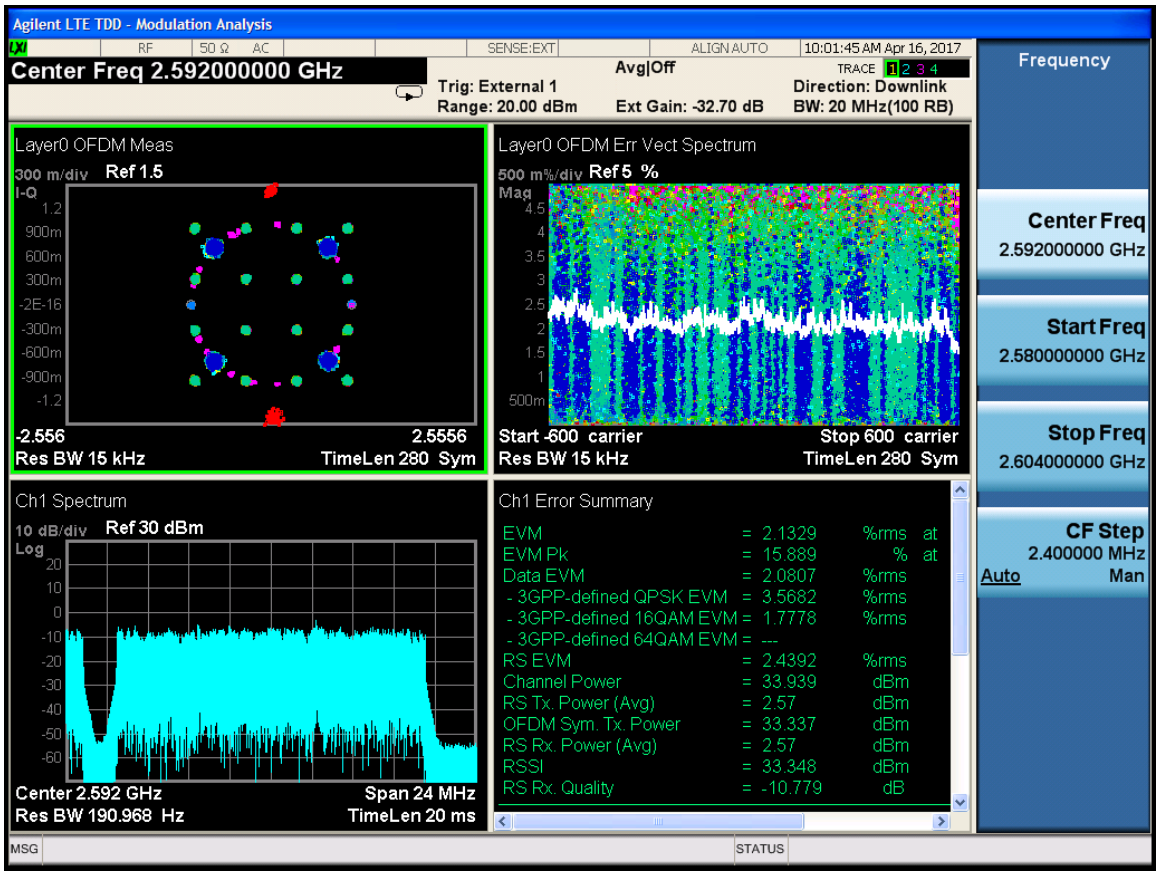
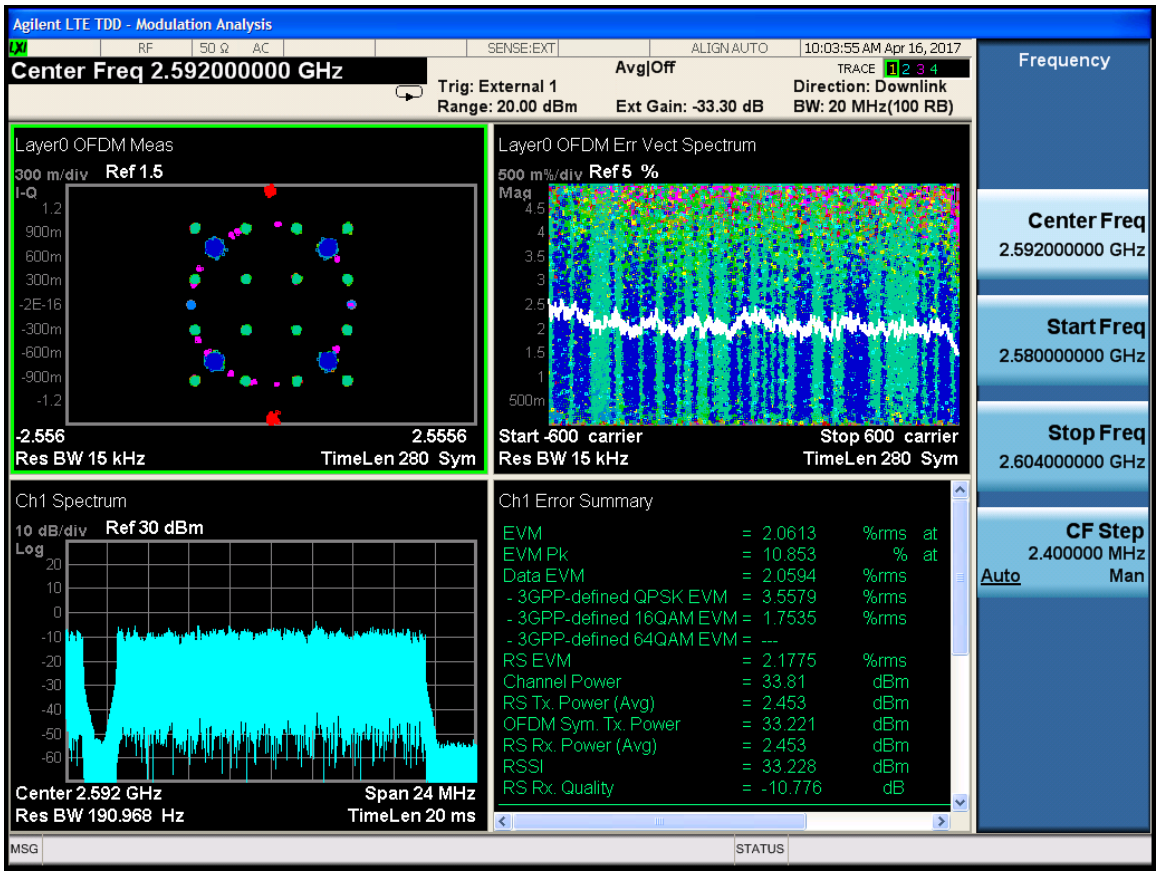
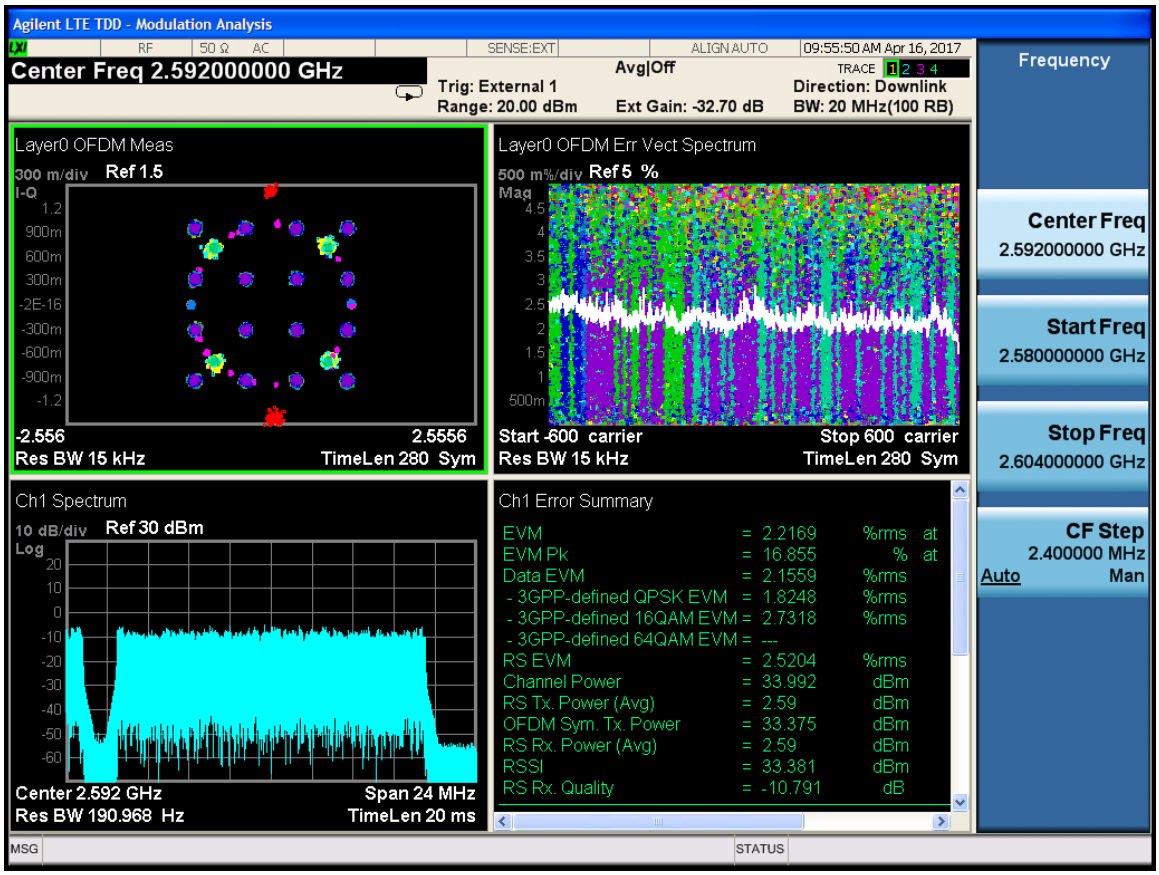

Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:57:45 AM Apr 16, 2017
Center Freq 2.572000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -33.30 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
-2E-16
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.572 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.0957 %rms at
EVM Pk = 8.8625 % at
Data EVM = 2.0853 %rms
- 3GPP-defined QPSK EVM = 1.7392 %rms
- 3GPP-defined 16QAM EVM = 2.6403 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 2.2190 %rms
Channel Power = 33.985 dBm
RS Tx. Power (Avg) = 2.615 dBm
OFDM Sym. Tx. Power = 33.427 dBm
RS Rx. Power (Avg) = 2.615 dBm
RSSI = 33.413 dBm
RS Rx. Quality = -10.798 dB
Center Freq
2.572000000 GHz
Start Freq
2.560000000 GHz
Stop Freq
2.584000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS

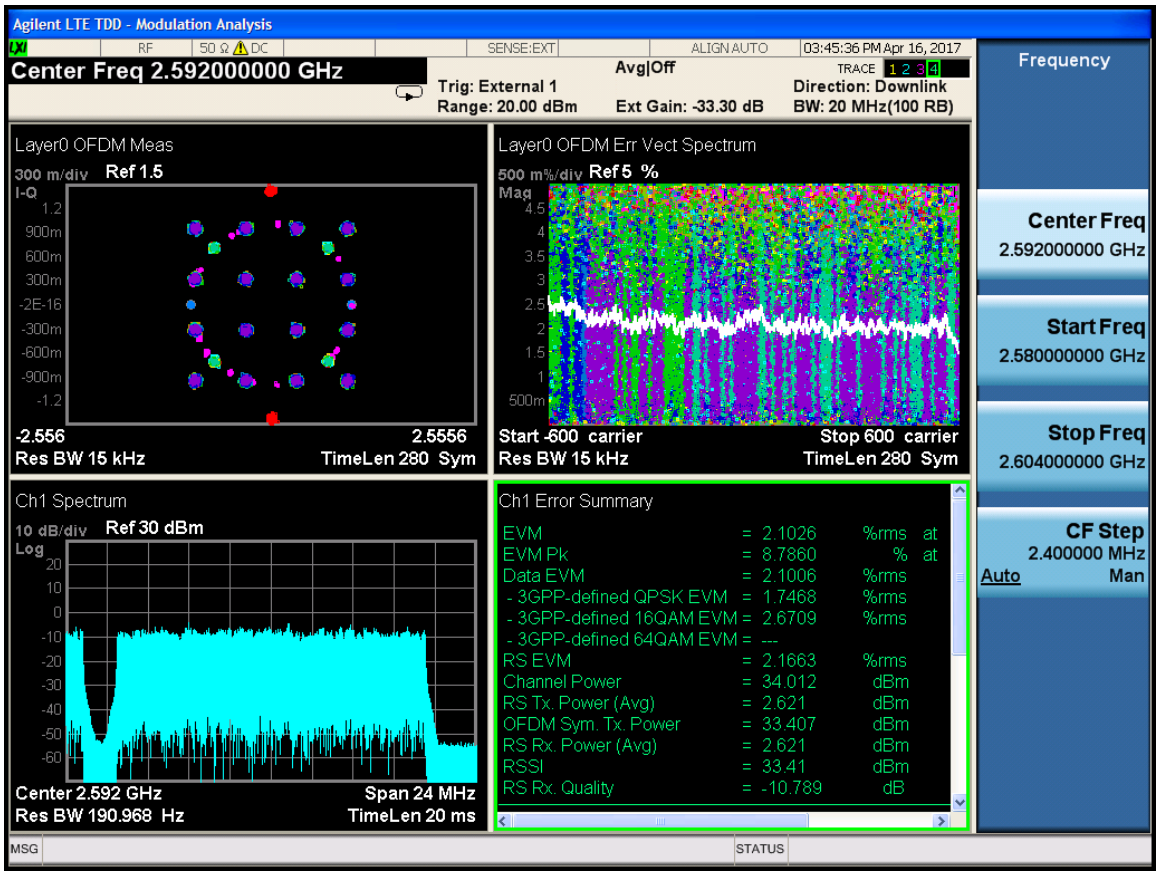

Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:46:07 AM Apr 16, 2017
Center Freq 2.572000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -32.70 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
0
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.572 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.0989 %rms at
EVM Pk = 16.454 % at
Data EVM = 2.0553 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 2.0528 %rms
RS EVM = 2.2643 %rms
Channel Power = 34.023 dBm
RS Tx. Power (Avg) = 2.633 dBm
OFDM Sym. Tx. Power = 33.466 dBm
RS Rx. Power (Avg) = 2.633 dBm
RSSI = 33.409 dBm
RS Rx. Quality = -10.777 dB
Center Freq
2.572000000 GHz
Start Freq
2.560000000 GHz
Stop Freq
2.584000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS

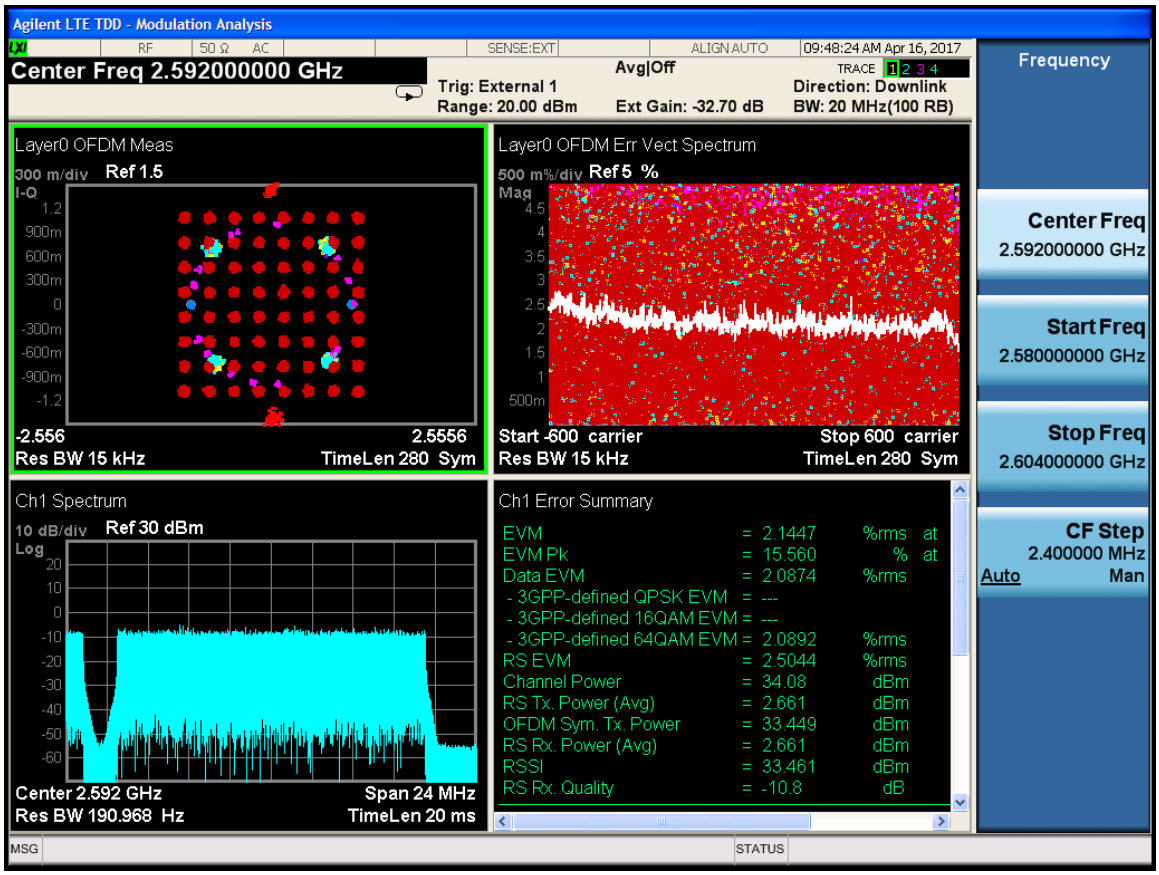

Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:49:13 AM Apr 16, 2017
Center Freq 2.572000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -33.30 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
0
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Center Freq
2.572000000 GHz
Start Freq
2.560000000 GHz
Stop Freq
2.584000000 GHz
CF Step
2.400000 MHz
Auto
Man
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.572 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.0693 %rms at
EVM Pk = 9.5511 % at
Data EVM = 2.0621 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 2.0680 %rms
RS EVM = 2.1939 %rms
Channel Power = 34.084 dBm
RS Tx. Power (Avg) = 2.687 dBm
OFDM Sym. Tx. Power = 33.522 dBm
RS Rx. Power (Avg) = 2.687 dBm
RSSI = 33.462 dBm
RS Rx. Quality = -10.775 dB
MSG
STATUS

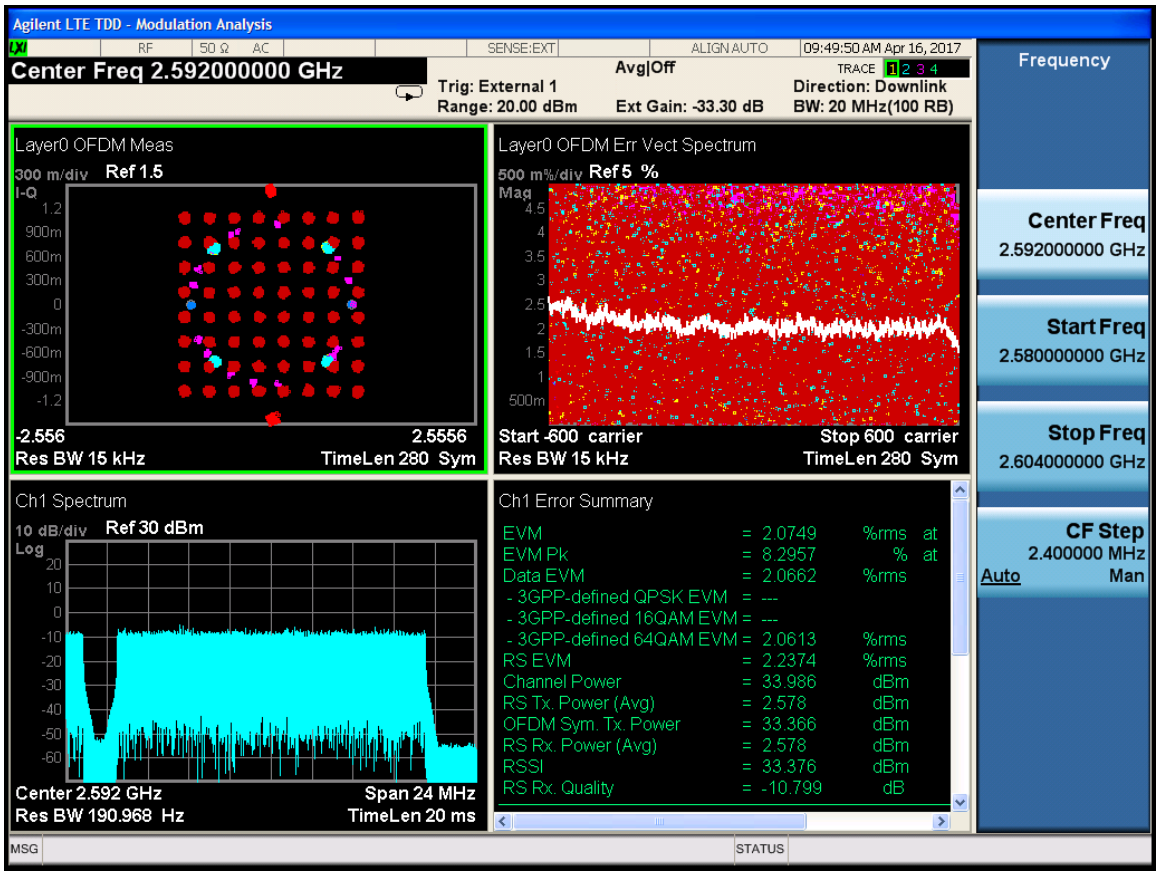

Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
10:01:45 AM Apr 16, 2017
Center Freq 2.592000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -32.70 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
-2E-16
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.592 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.1329 %rms at
EVM Pk = 15.889 % at
Data EVM = 2.0807 %rms
- 3GPP-defined QPSK EVM = 3.5682 %rms
- 3GPP-defined 16QAM EVM = 1.7778 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 2.4392 %rms
Channel Power = 33.939 dBm
RS Tx. Power (Avg) = 2.57 dBm
OFDM Sym. Tx. Power = 33.337 dBm
RS Rx. Power (Avg) = 2.57 dBm
RSSI = 33.348 dBm
RS Rx. Quality = -10.779 dB
Center Freq
2.592000000 GHz
Start Freq
2.580000000 GHz
Stop Freq
2.604000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
10:03:55 AM Apr 16, 2017
Center Freq 2.592000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -33.30 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
-2E-16
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.592 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.0613 %rms at
EVM Pk = 10.853 % at
Data EVM = 2.0594 %rms
- 3GPP-defined QPSK EVM = 3.5579 %rms
- 3GPP-defined 16QAM EVM = 1.7535 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 2.1775 %rms
Channel Power = 33.81 dBm
RS Tx. Power (Avg) = 2.453 dBm
OFDM Sym. Tx. Power = 33.221 dBm
RS Rx. Power (Avg) = 2.453 dBm
RSSI = 33.228 dBm
RS Rx. Quality = -10.776 dB
Center Freq
2.592000000 GHz
Start Freq
2.580000000 GHz
Stop Freq
2.604000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:55:50 AM Apr 16, 2017
Center Freq 2.592000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -32.70 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
-2E-16
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.592 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.2169 %rms at
EVM Pk = 16.855 % at
Data EVM = 2.1559 %rms
- 3GPP-defined QPSK EVM = 1.8248 %rms
- 3GPP-defined 16QAM EVM = 2.7318 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 2.5204 %rms
Channel Power = 33.992 dBm
RS Tx. Power (Avg) = 2.59 dBm
OFDM Sym. Tx. Power = 33.375 dBm
RS Rx. Power (Avg) = 2.59 dBm
RSSI = 33.381 dBm
RS Rx. Quality = -10.791 dB
Center Freq
2.592000000 GHz
Start Freq
2.580000000 GHz
Stop Freq
2.604000000 GHz
CF Step
2.400000 MHz
Auto
Man
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
03:45:36 PM Apr 16, 2017
Center Freq 2.592000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -33.30 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
-2E-16
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Center Freq
2.592000000 GHz
Start Freq
2.580000000 GHz
Stop Freq
2.604000000 GHz
CF Step
2.400000 MHz
Auto
Man
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.592 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.1026 %rms at
EVM Pk = 8.7860 % at
Data EVM = 2.1006 %rms
- 3GPP-defined QPSK EVM = 1.7468 %rms
- 3GPP-defined 16QAM EVM = 2.6709 %rms
- 3GPP-defined 64QAM EVM = ---
RS EVM = 2.1663 %rms
Channel Power = 34.012 dBm
RS Tx. Power (Avg) = 2.621 dBm
OFDM Sym. Tx. Power = 33.407 dBm
RS Rx. Power (Avg) = 2.621 dBm
RSSI = 33.41 dBm
RS Rx. Quality = -10.789 dB
MSG
STATUS


Agilent LTE TDD - Modulation Analysis
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
09:48:24 AM Apr 16, 2017
Center Freq 2.592000000 GHz
Trig: External 1
Range: 20.00 dBm
Avg|Off
Ext Gain: -32.70 dB
TRACE 1 2 3 4
Direction: Downlink
BW: 20 MHz(100 RB)
Frequency
Layer0 OFDM Meas
300 m/div Ref 1.5
I-Q
1.2
900m
600m
300m
0
-300m
-600m
-900m
-1.2
-2.556
2.5556
Res BW 15 kHz
TimeLen 280 Sym
Layer0 OFDM Err Vect Spectrum
500 m%/div Ref 5 %
Mag
4.5
4
3.5
3
2.5
2
1.5
1
500m
Start -600 carrier
Stop 600 carrier
Res BW 15 kHz
TimeLen 280 Sym
Ch1 Spectrum
10 dB/div Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.592 GHz
Span 24 MHz
Res BW 190.968 Hz
TimeLen 20 ms
Ch1 Error Summary
EVM = 2.1447 %rms at
EVM Pk = 15.560 % at
Data EVM = 2.0874 %rms
- 3GPP-defined QPSK EVM = ---
- 3GPP-defined 16QAM EVM = ---
- 3GPP-defined 64QAM EVM = 2.0892 %rms
RS EVM = 2.5044 %rms
Channel Power = 34.08 dBm
RS Tx. Power (Avg) = 2.661 dBm
OFDM Sym. Tx. Power = 33.449 dBm
RS Rx. Power (Avg) = 2.661 dBm
RSSI = 33.461 dBm
RS Rx. Quality = -10.8 dB
Center Freq
2.592000000 GHz
Start Freq
2.580000000 GHz
Stop Freq
2.604000000 GHz
CF Step
2.400000 MHz
Auto
Man
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	MY51240239	2016.11.28	2017.11.28

*__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

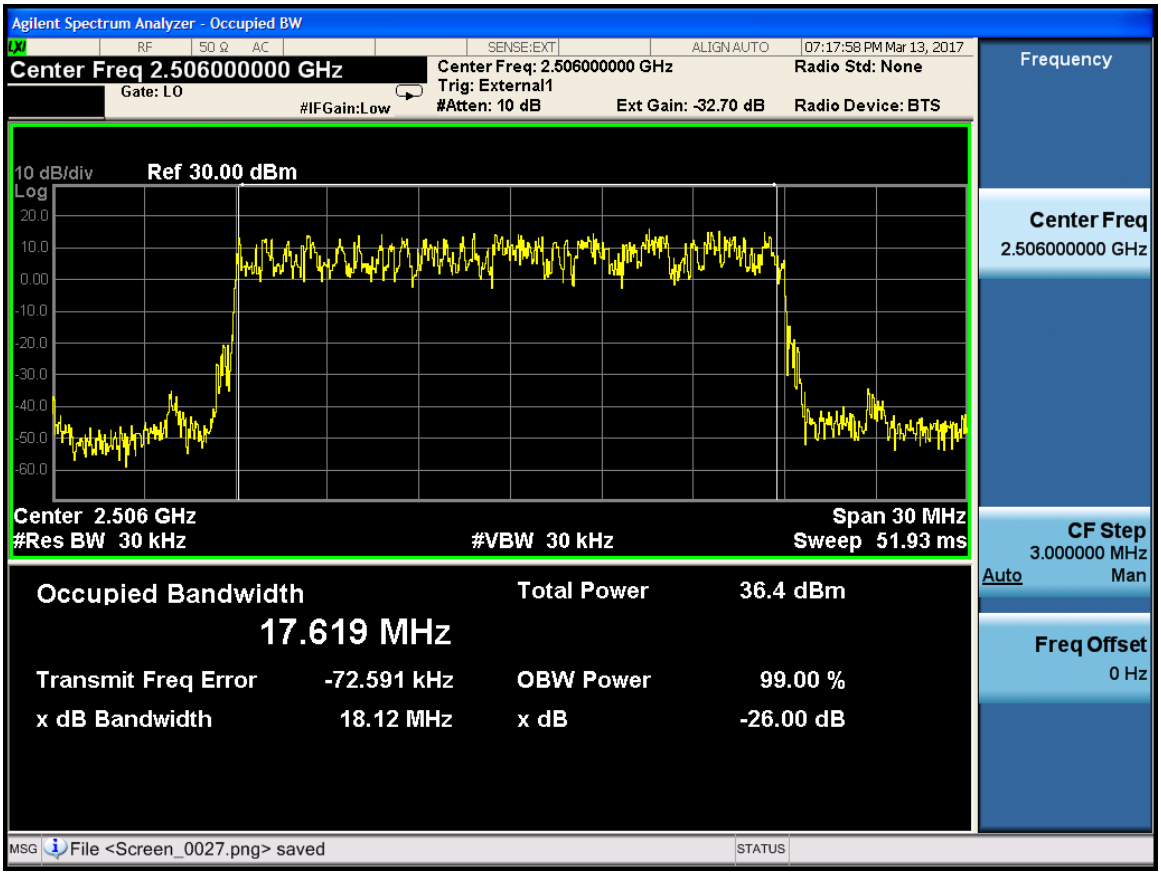
Test Data

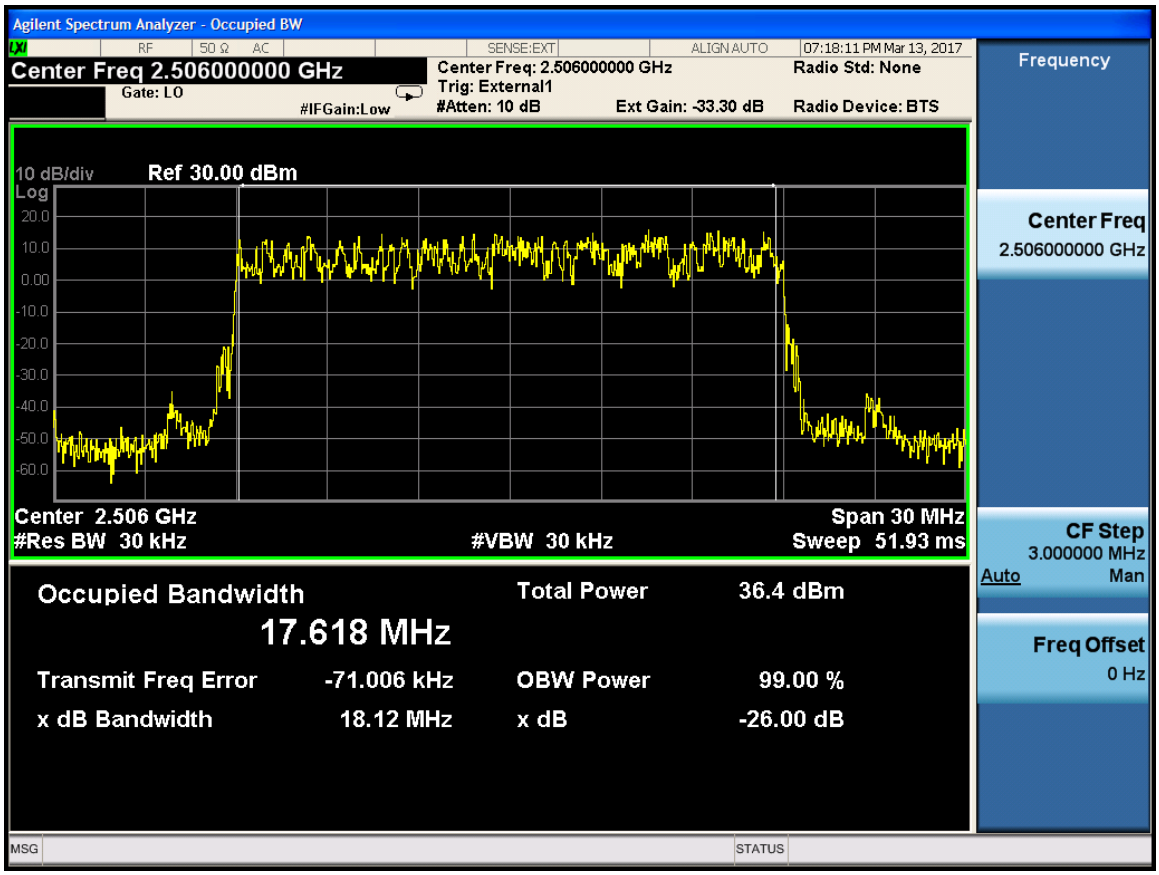
One Carrier

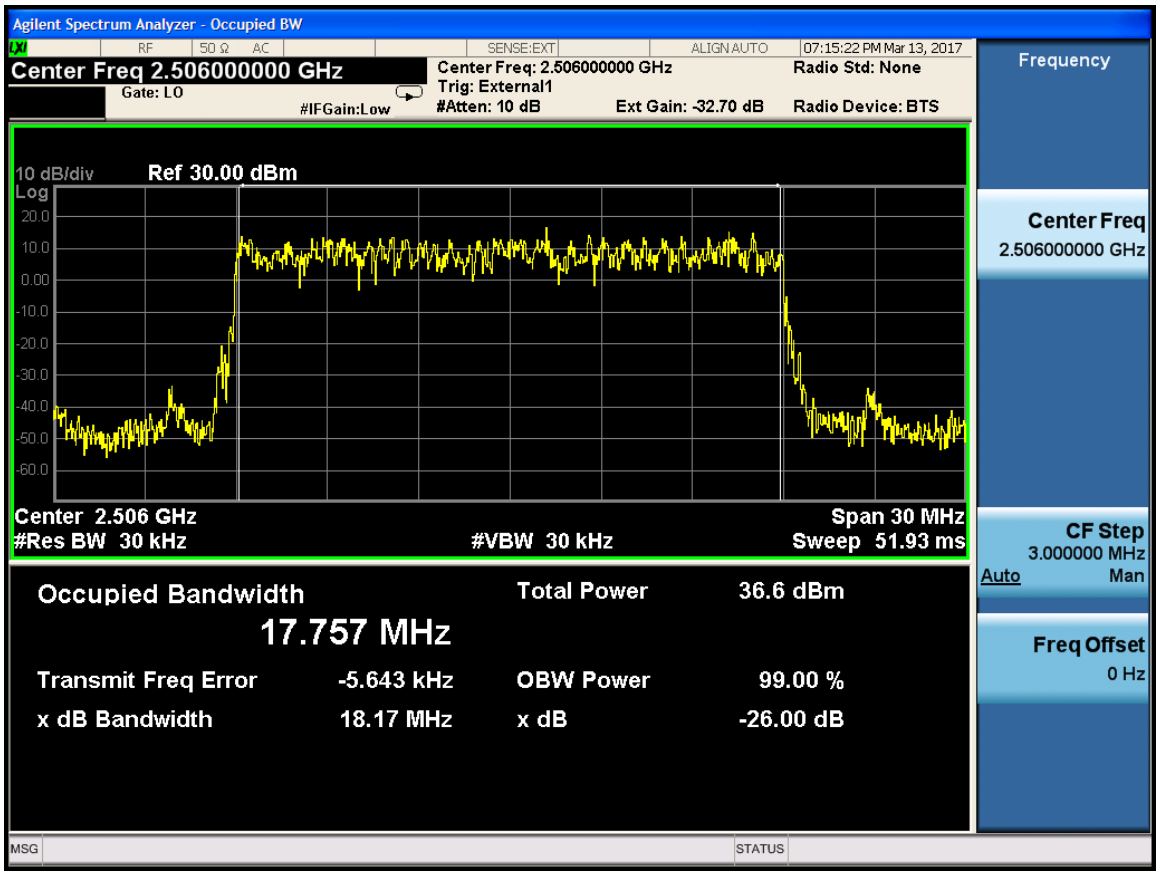
Channel Bandwidth: 20M

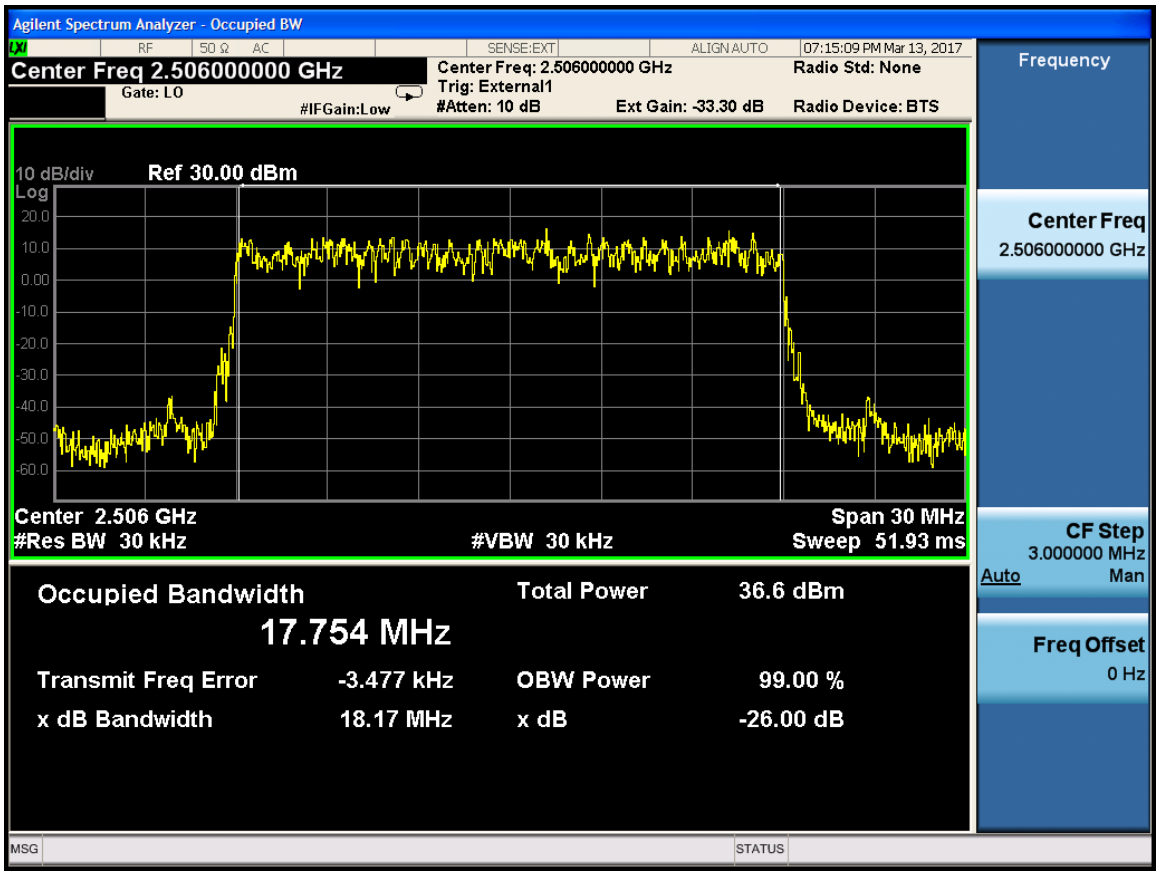
Port	Carrier Freq(MHz)	Occupied Bandwidth(MHz)		
		QPSK	16QAM	64QAM
0	2506	17.62	17.76	17.85
1		17.62	17.75	17.85
0	2549	17.62	17.76	17.85

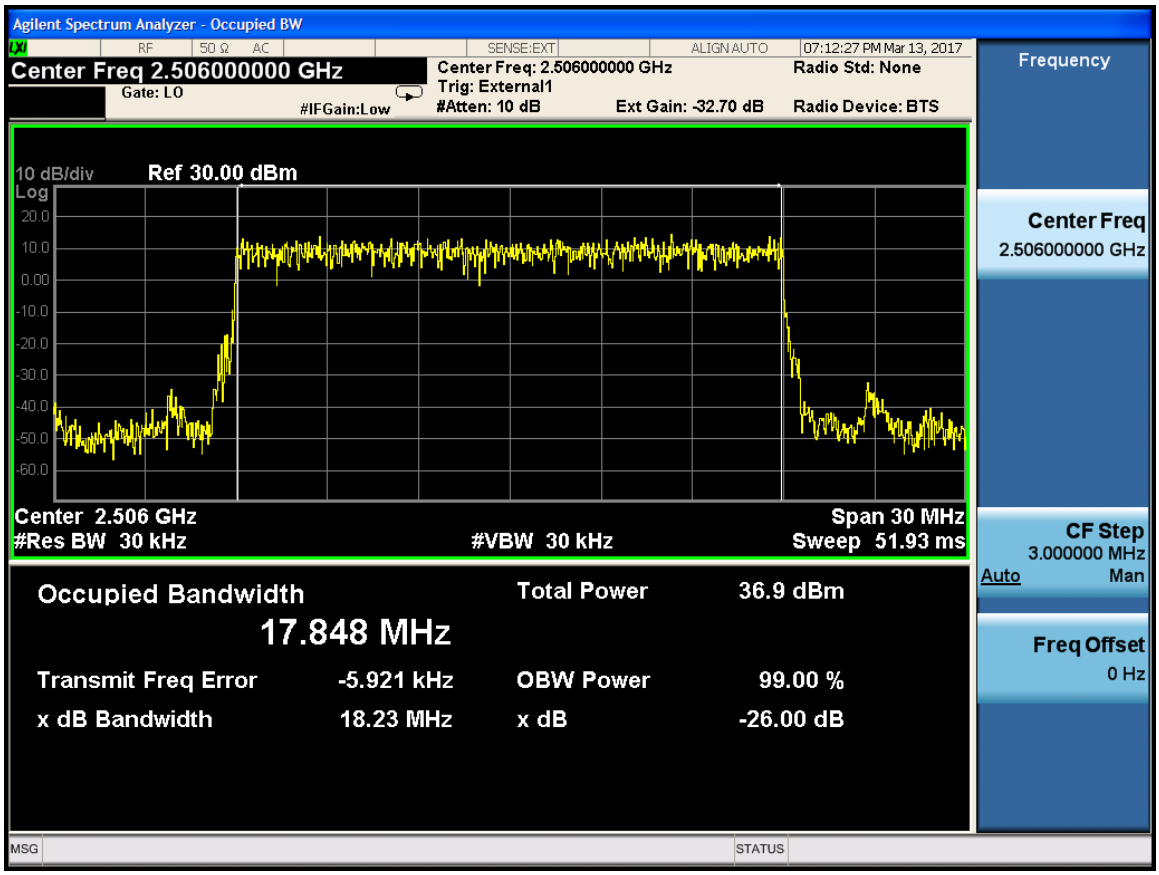
Port	Carrier Freq(MHz)	Occupied Bandwidth(MHz)		
		QPSK	16QAM	64QAM
1		17.61	17.76	17.85
0	2592	17.6	17.75	17.85
1		17.6	17.75	17.85

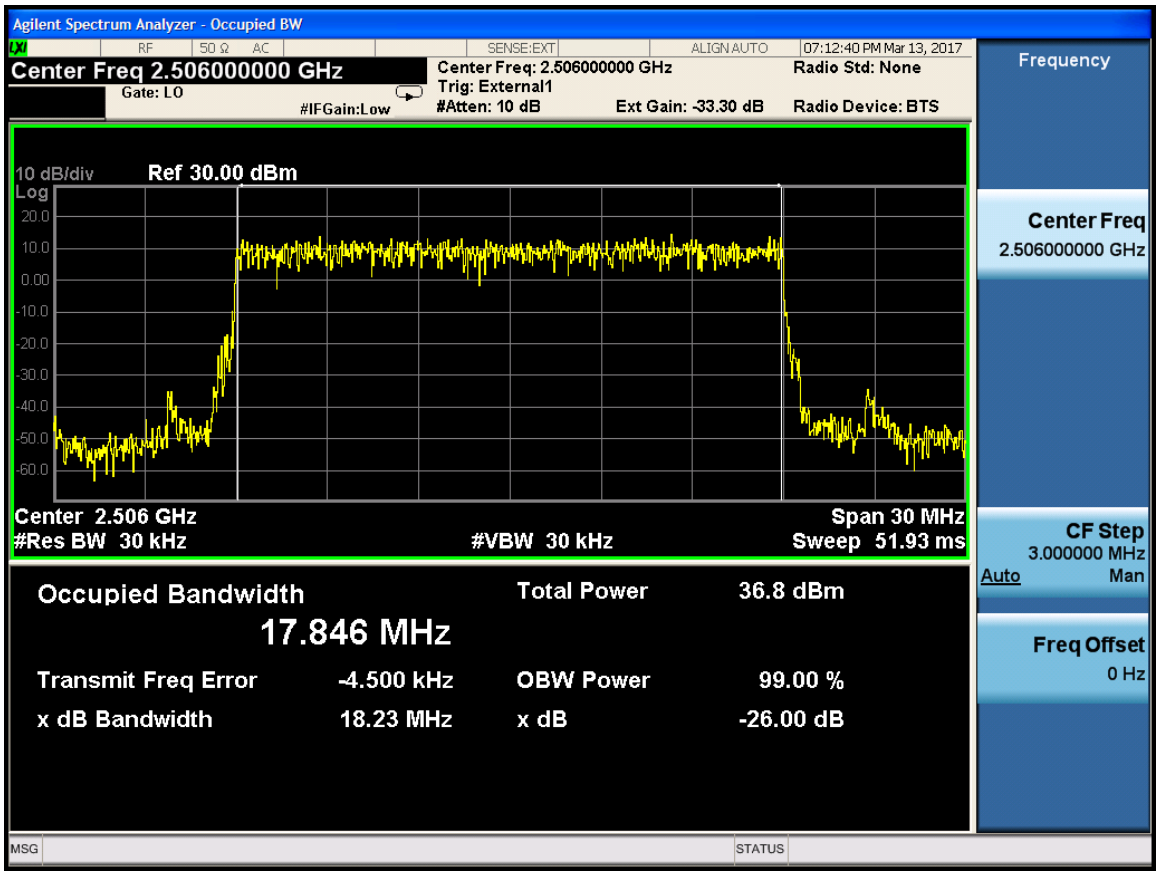


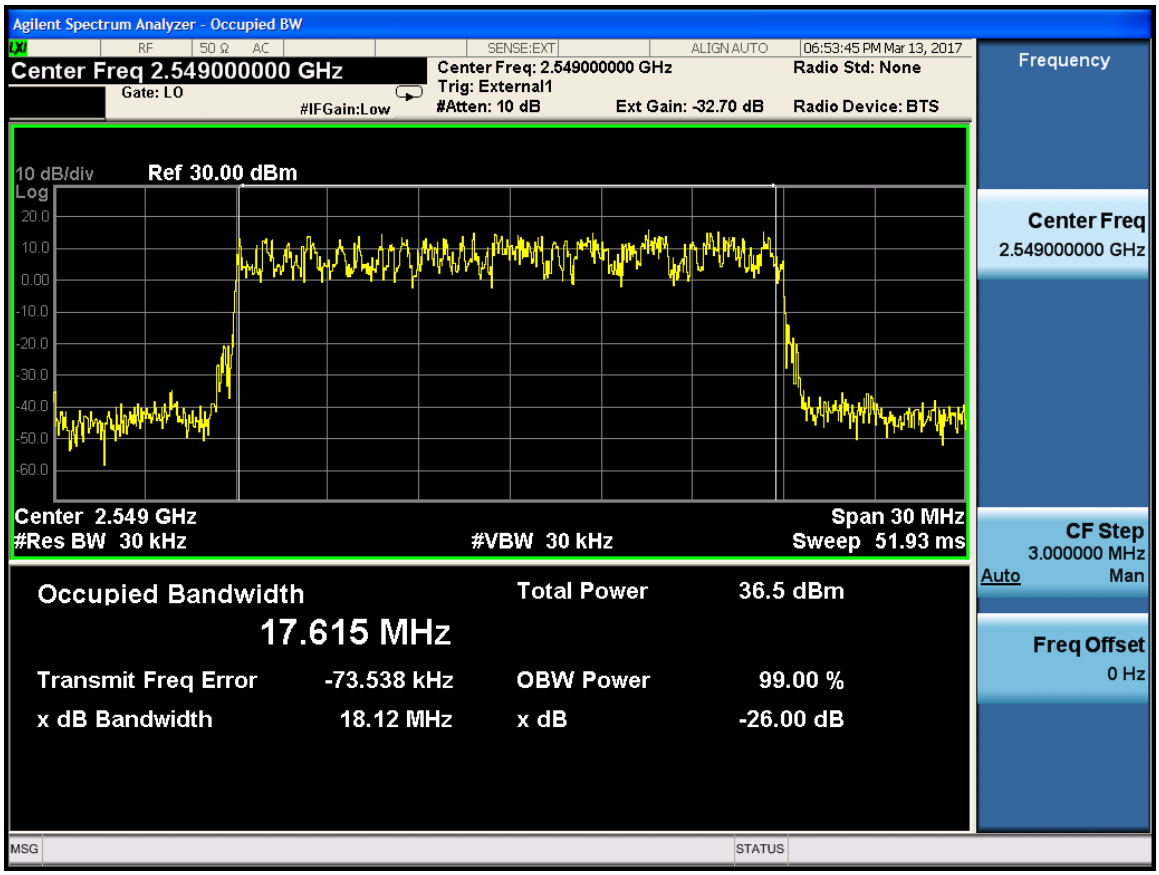

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:18:11 PM Mar 13, 2017
Center Freq 2.506000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.506 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.618 MHz
Total Power 36.4 dBm
Transmit Freq Error -71.006 kHz
OBW Power 99.00 %
x dB Bandwidth 18.12 MHz
x dB -26.00 dB
Center Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

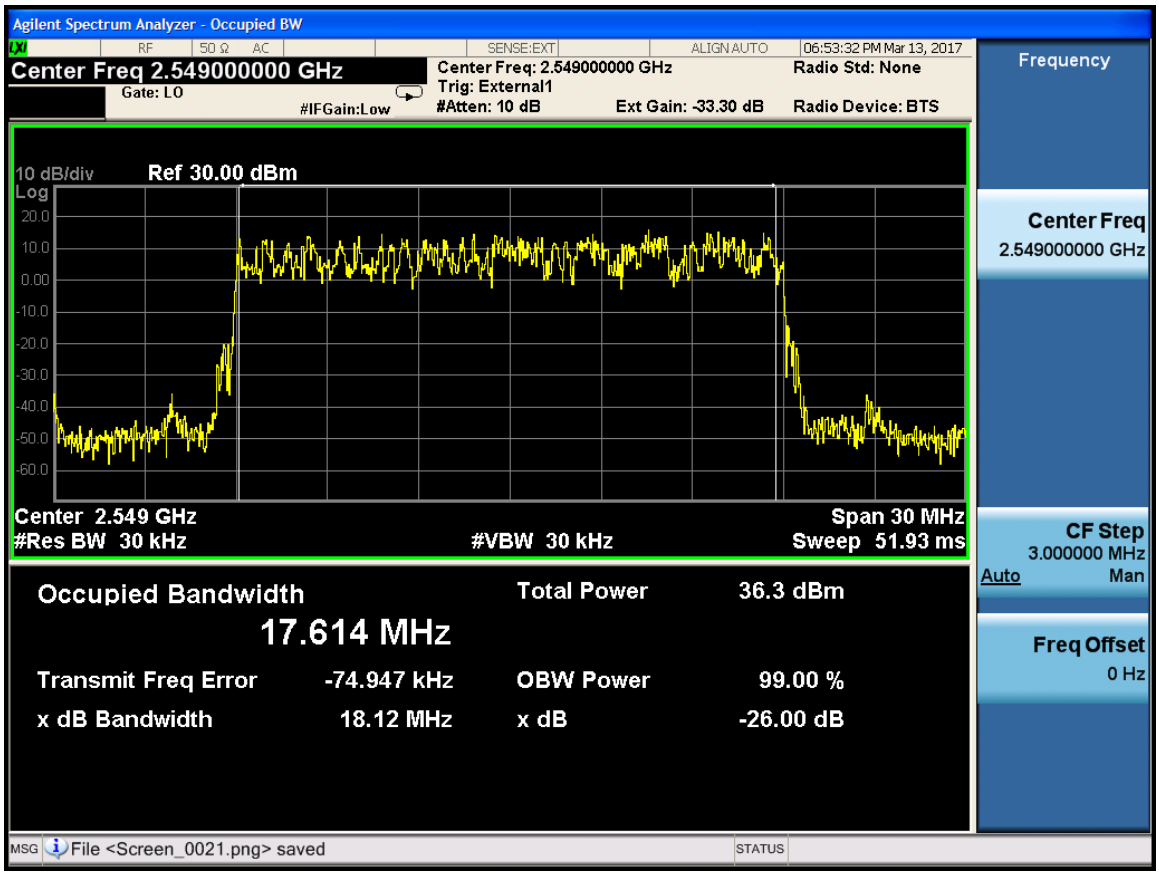

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:15:22 PM Mar 13, 2017
Center Freq 2.506000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.506 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.757 MHz
Total Power 36.6 dBm
Transmit Freq Error -5.643 kHz
OBW Power 99.00 %
x dB Bandwidth 18.17 MHz
x dB -26.00 dB
Center Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

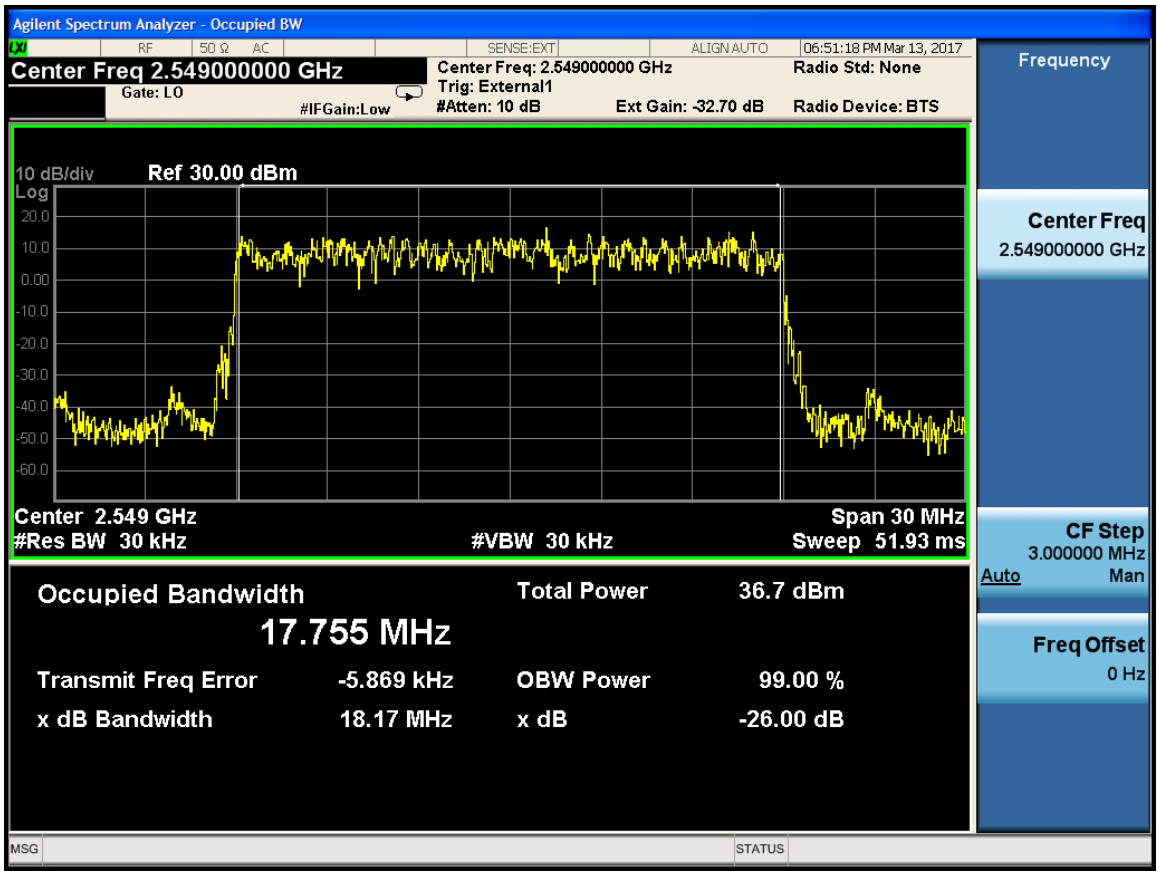

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:15:09 PM Mar 13, 2017
Center Freq 2.506000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.506 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.754 MHz
Total Power 36.6 dBm
Transmit Freq Error -3.477 kHz
OBW Power 99.00 %
x dB Bandwidth 18.17 MHz
x dB -26.00 dB
Center Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

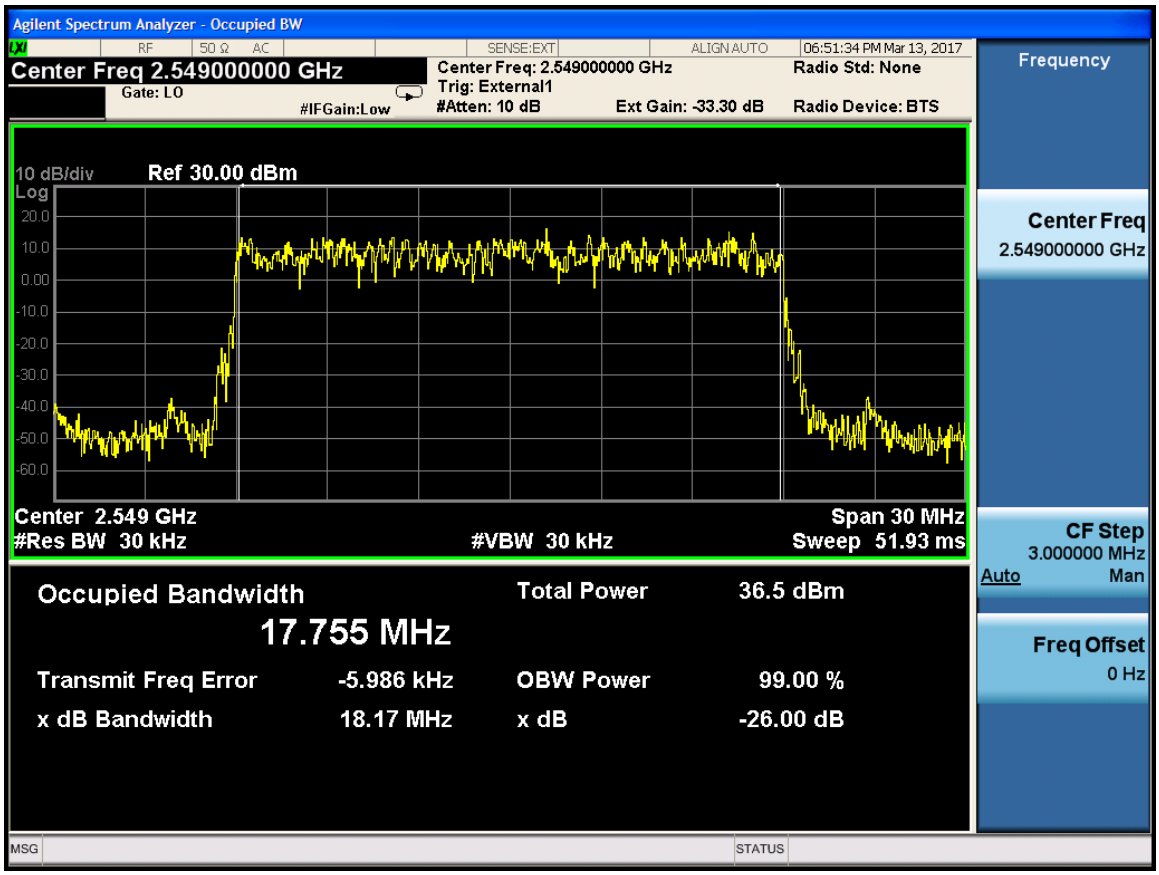

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:12:27 PM Mar 13, 2017
Center Freq 2.506000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.506 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.848 MHz
Total Power 36.9 dBm
Transmit Freq Error -5.921 kHz
OBW Power 99.00 %
x dB Bandwidth 18.23 MHz
x dB -26.00 dB
Center Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

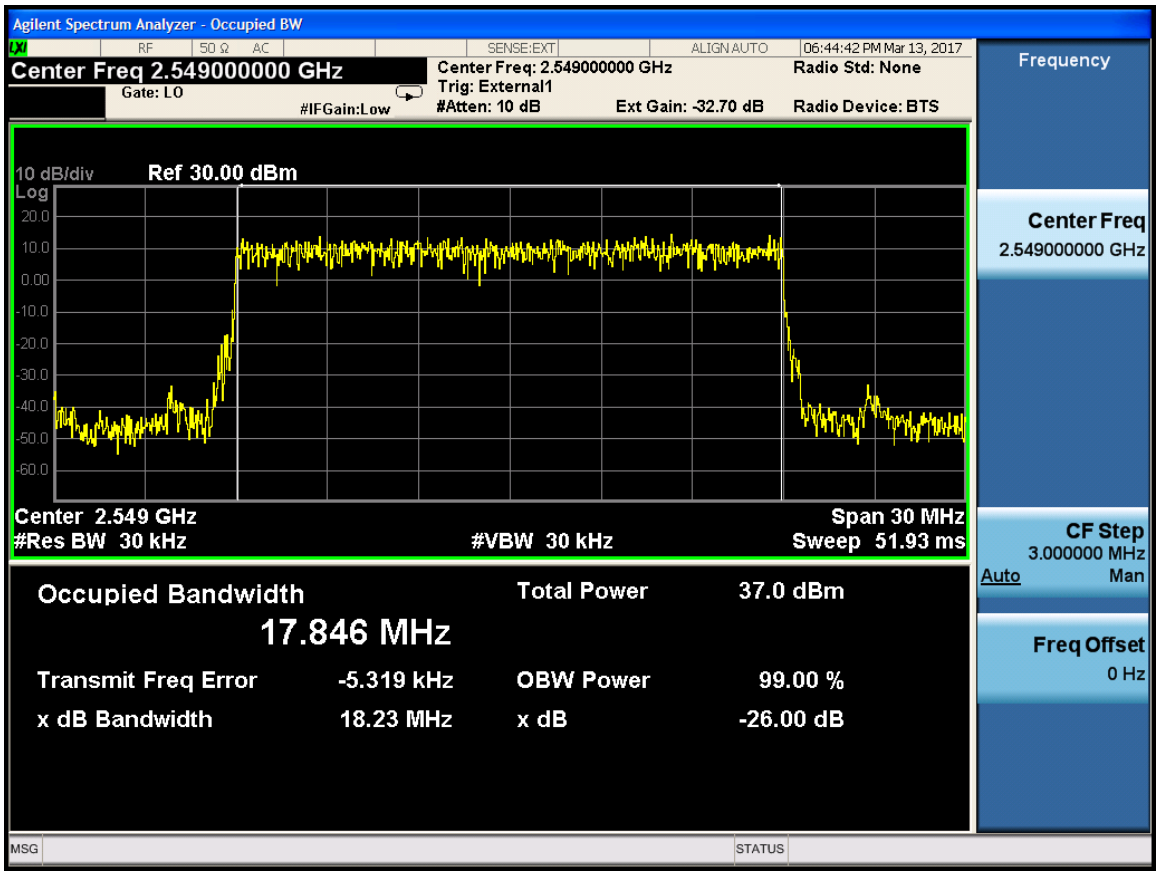

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:12:40 PM Mar 13, 2017
Center Freq 2.506000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.506 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.846 MHz
Total Power 36.8 dBm
Transmit Freq Error -4.500 kHz
OBW Power 99.00 %
x dB Bandwidth 18.23 MHz
x dB -26.00 dB
Center Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

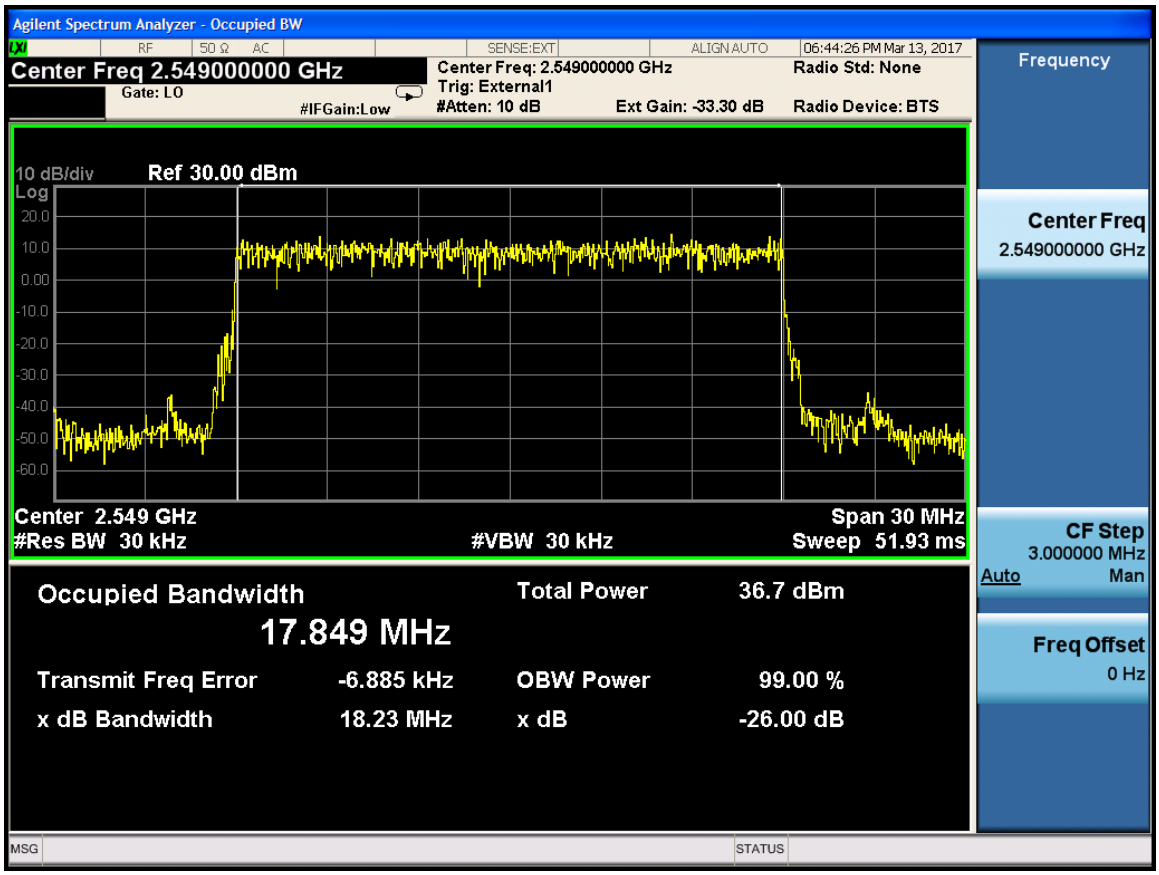

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:53:45 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.615 MHz
Total Power
36.5 dBm
Freq Offset
0 Hz
Transmit Freq Error
-73.538 kHz
OBW Power
99.00 %
x dB Bandwidth
18.12 MHz
x dB
-26.00 dB
MSG
STATUS

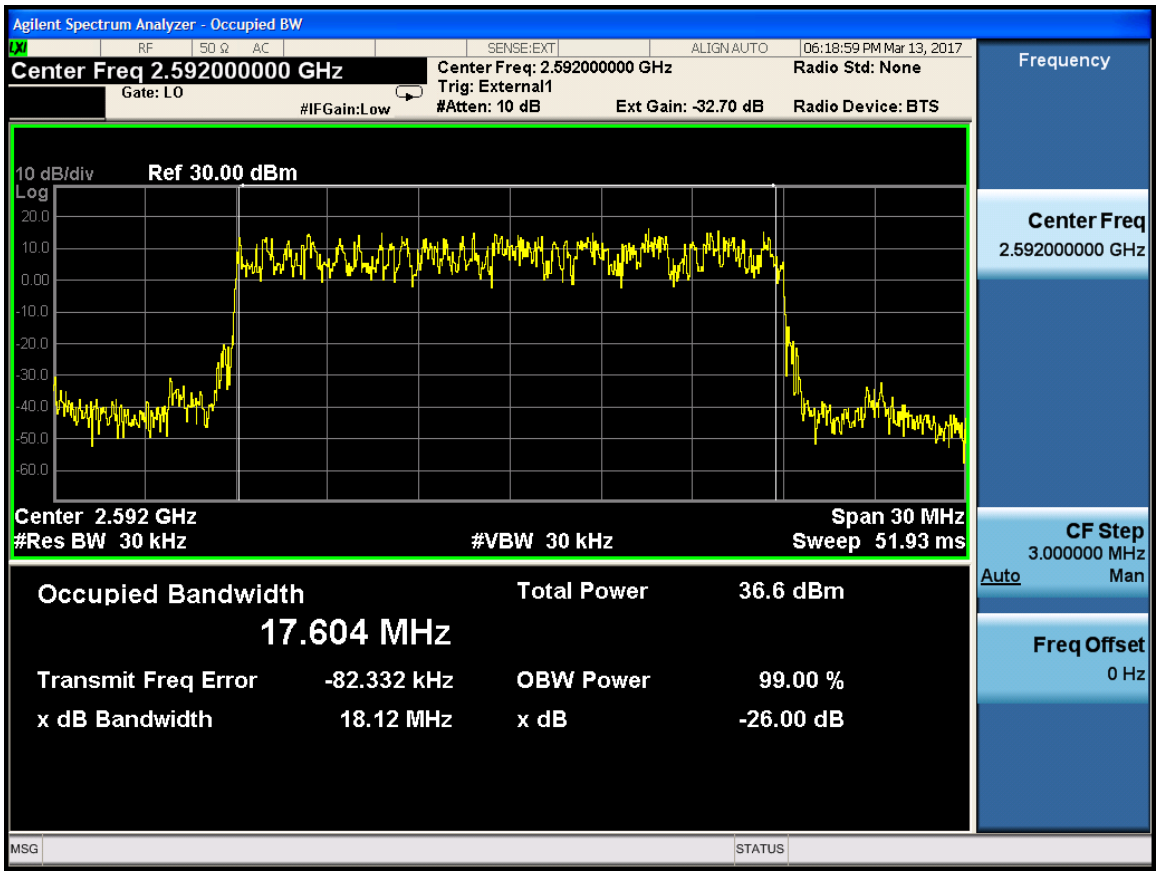

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:53:32 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.614 MHz
Total Power 36.3 dBm
Transmit Freq Error -74.947 kHz
OBW Power 99.00 %
x dB Bandwidth 18.12 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
File <Screen_0021.png> saved
STATUS

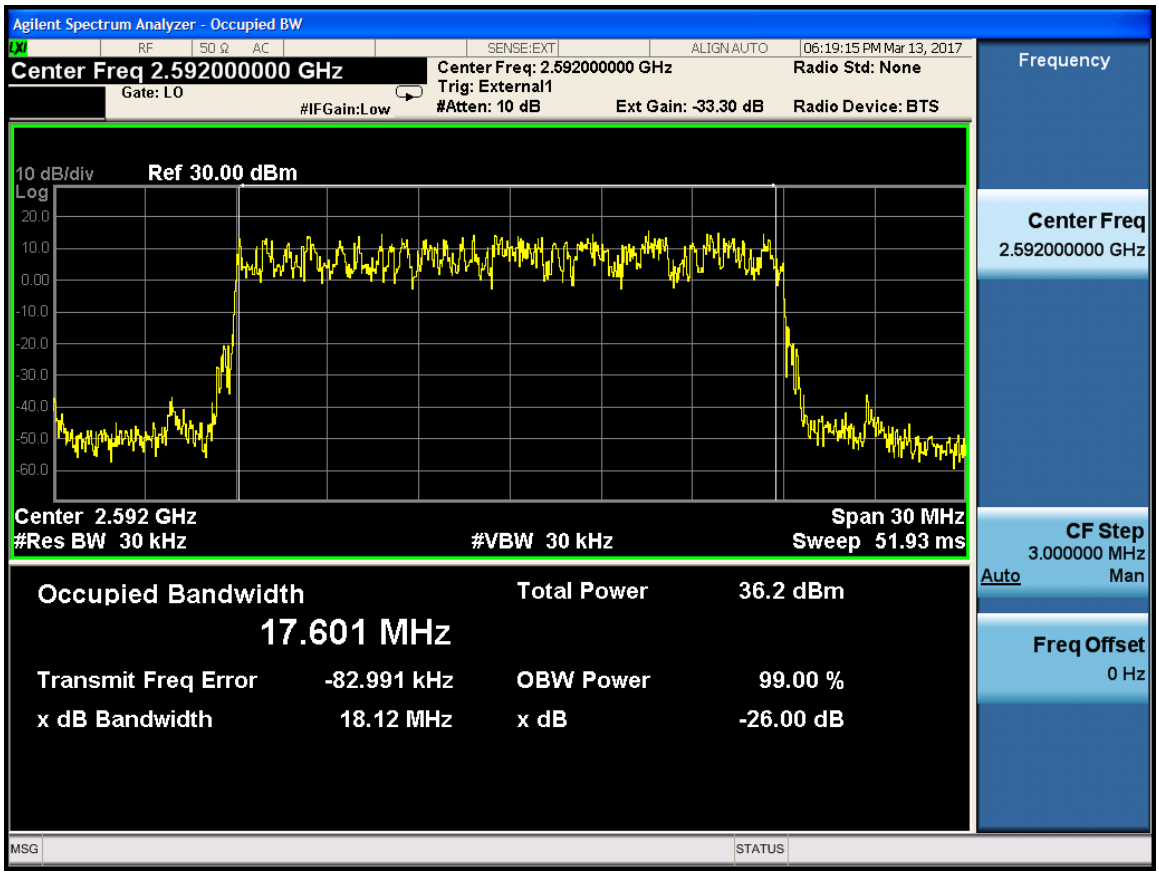

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:51:18 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.755 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-5.869 kHz
OBW Power
99.00 %
x dB Bandwidth
18.17 MHz
x dB
-26.00 dB
MSG
STATUS

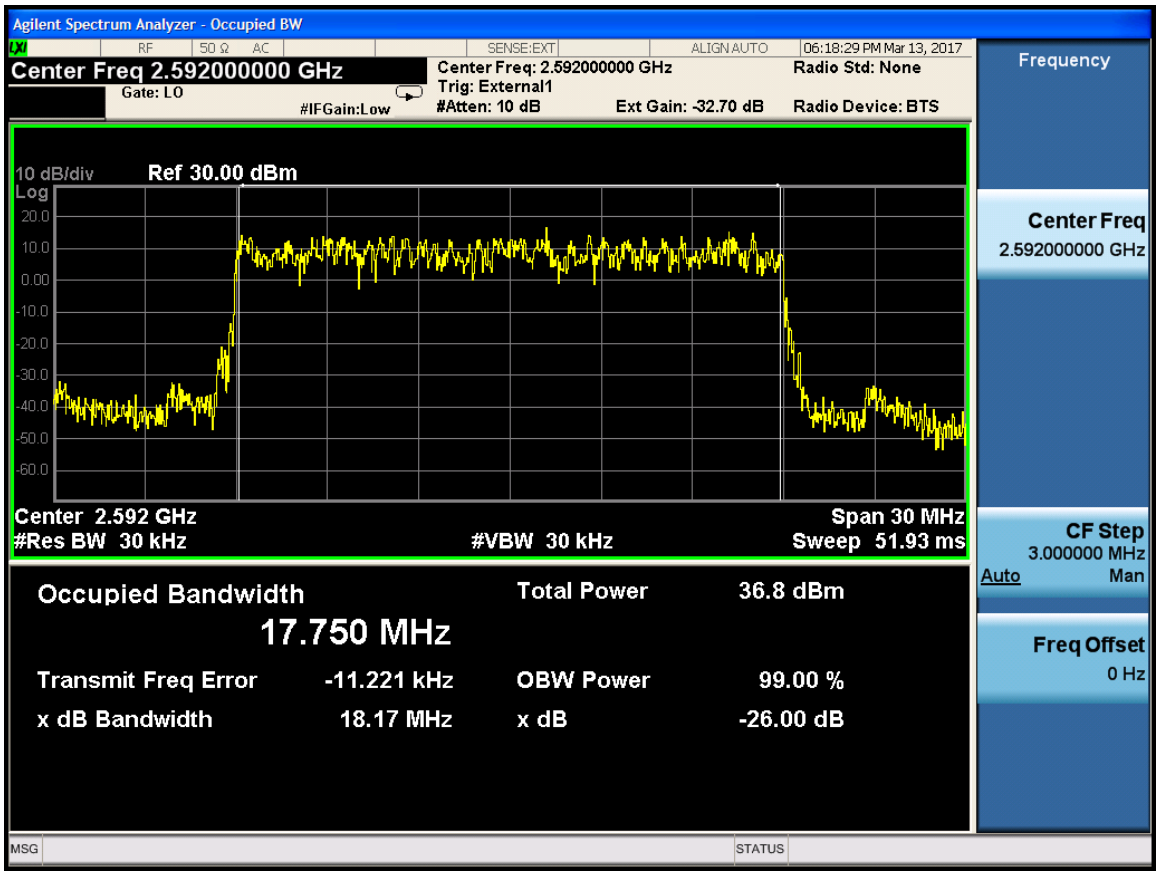

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:51:34 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.755 MHz
Total Power 36.5 dBm
Transmit Freq Error -5.986 kHz
OBW Power 99.00 %
x dB Bandwidth 18.17 MHz
x dB -26.00 dB
Center Freq
2.549000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

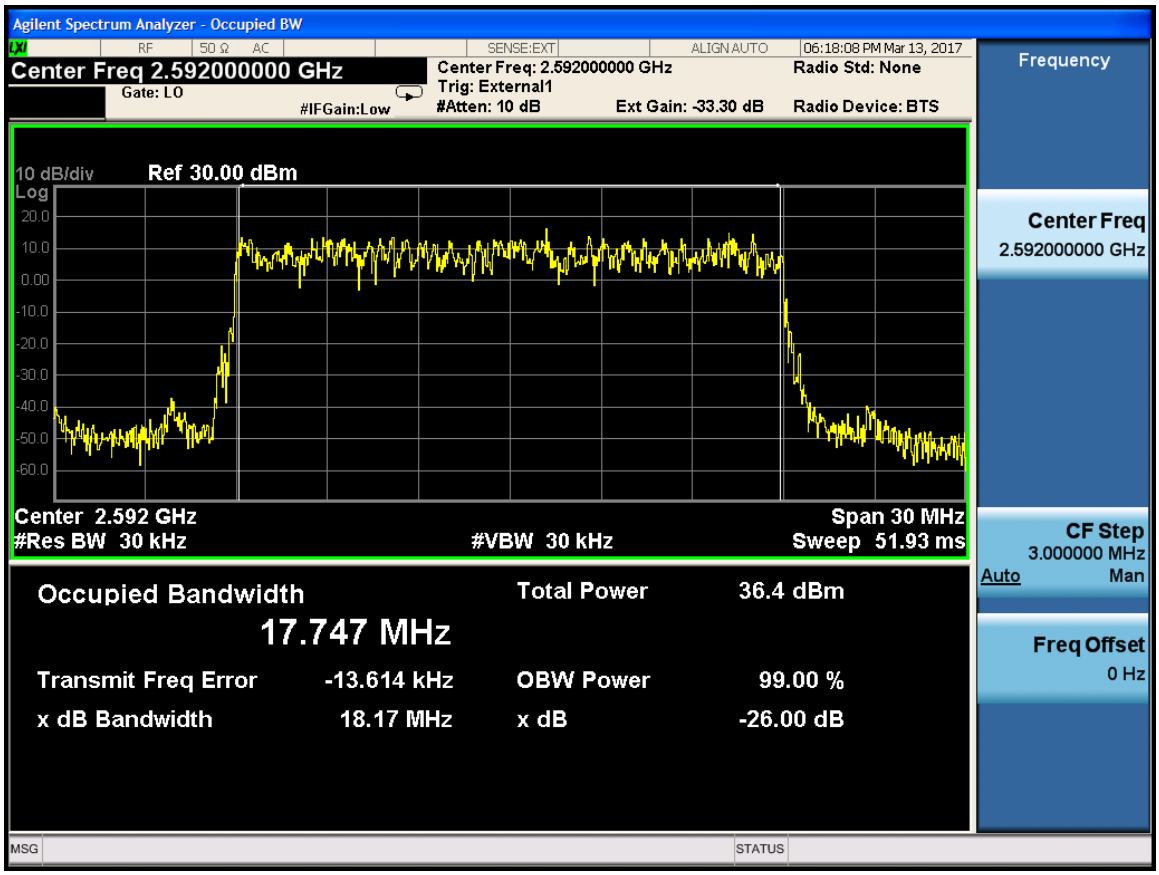

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:44:42 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.846 MHz
Total Power
37.0 dBm
Transmit Freq Error
-5.319 kHz
OBW Power
99.00 %
x dB Bandwidth
18.23 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

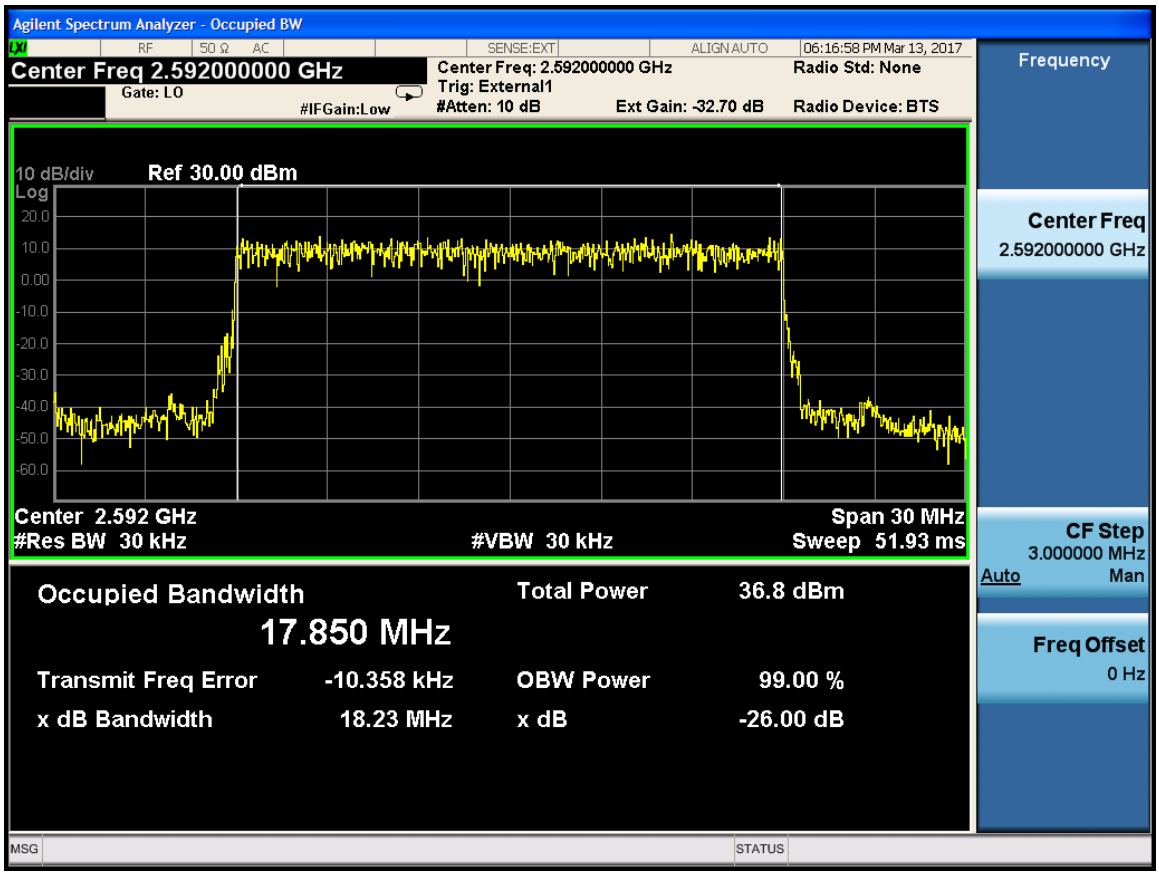

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:44:26 PM Mar 13, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.849 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-6.885 kHz
OBW Power
99.00 %
x dB Bandwidth
18.23 MHz
x dB
-26.00 dB
MSG
STATUS

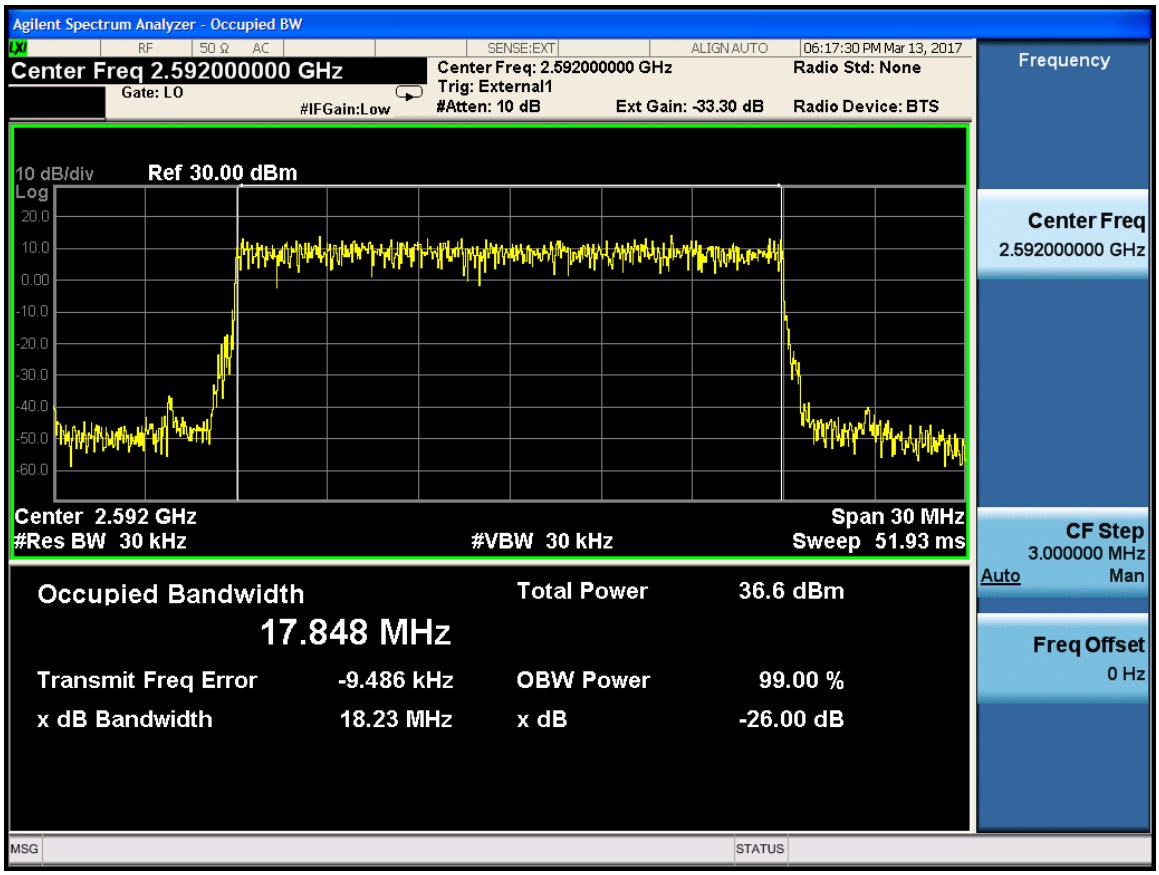

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
06:18:59 PM Mar 13, 2017
Center Freq 2.592000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.592000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.592 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.604 MHz
Total Power 36.6 dBm
Transmit Freq Error -82.332 kHz
OBW Power 99.00 %
x dB Bandwidth 18.12 MHz
x dB -26.00 dB
Center Freq
2.592000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
06:19:15 PM Mar 13, 2017
Center Freq 2.592000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.592000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.592000000 GHz
Center 2.592 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.601 MHz
Total Power 36.2 dBm
Transmit Freq Error -82.991 kHz
OBW Power 99.00 %
x dB Bandwidth 18.12 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
06:18:29 PM Mar 13, 2017
Center Freq 2.592000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.592000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center 2.592 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
Occupied Bandwidth
17.750 MHz
Total Power 36.8 dBm
Transmit Freq Error -11.221 kHz
OBW Power 99.00 %
x dB Bandwidth 18.17 MHz
x dB -26.00 dB
Center Freq
2.592000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
06:18:08 PM Mar 13, 2017
Center Freq 2.592000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.592000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.592000000 GHz
Center 2.592 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
17.747 MHz
Total Power 36.4 dBm
Transmit Freq Error -13.614 kHz
OBW Power 99.00 %
x dB Bandwidth 18.17 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

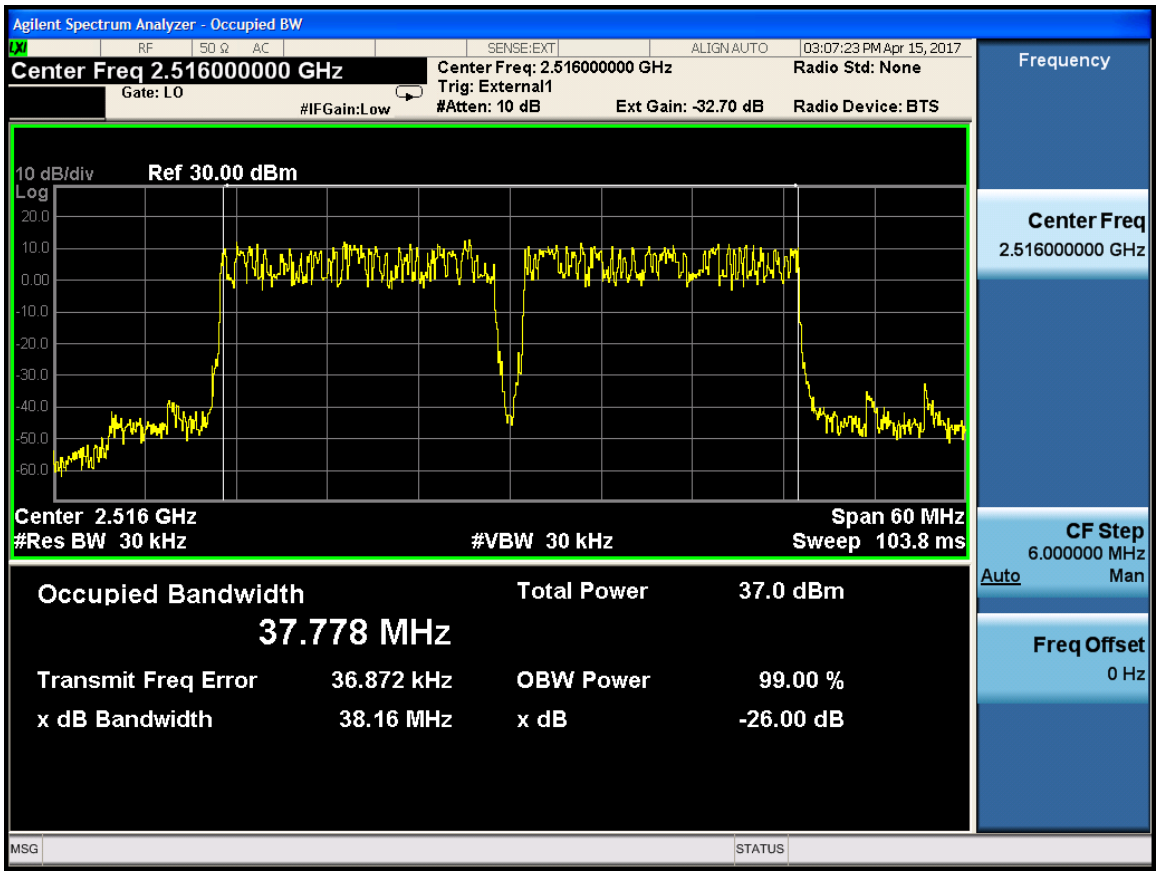

Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
06:16:58 PM Mar 13, 2017
Center Freq 2.592000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.592000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.592000000 GHz
Center 2.592 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 30 MHz
Sweep 51.93 ms
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
Occupied Bandwidth
17.850 MHz
Total Power 36.8 dBm
Transmit Freq Error -10.358 kHz
OBW Power 99.00 %
x dB Bandwidth 18.23 MHz
x dB -26.00 dB
MSG
STATUS

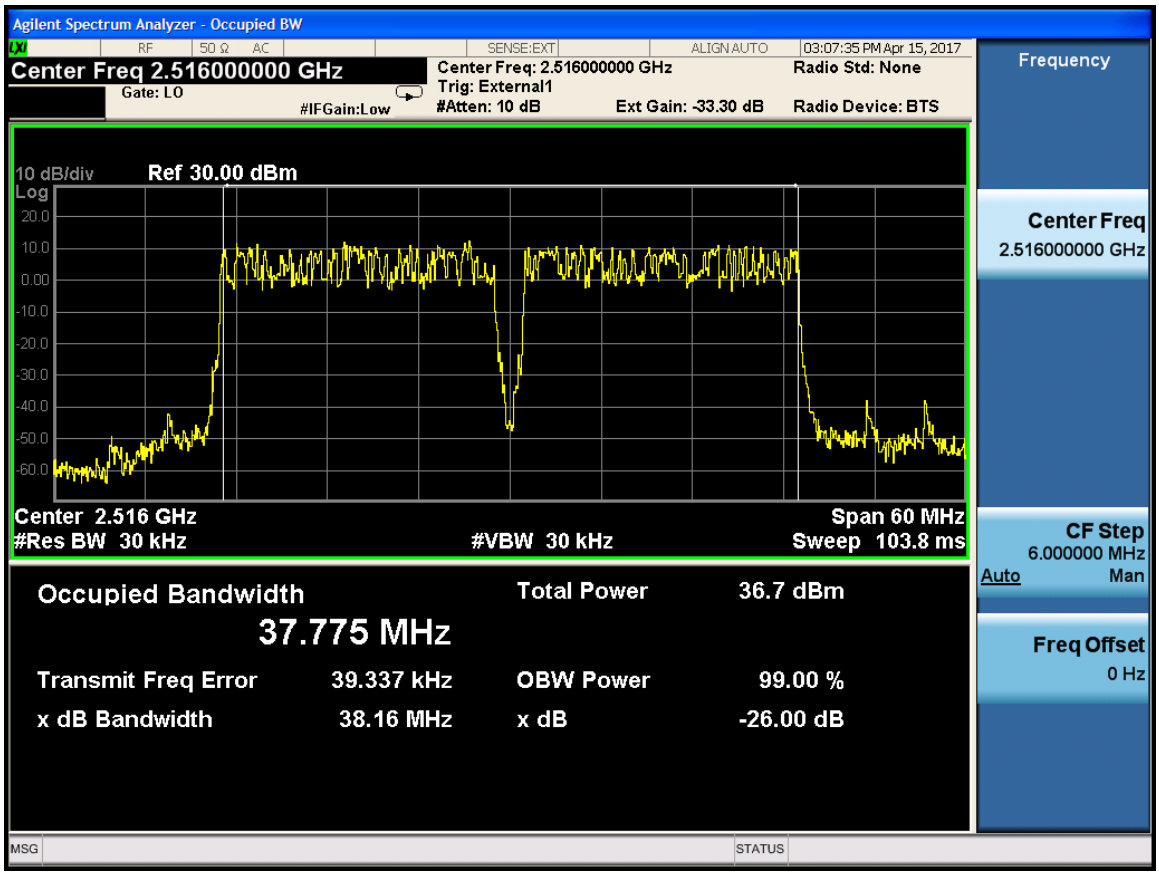


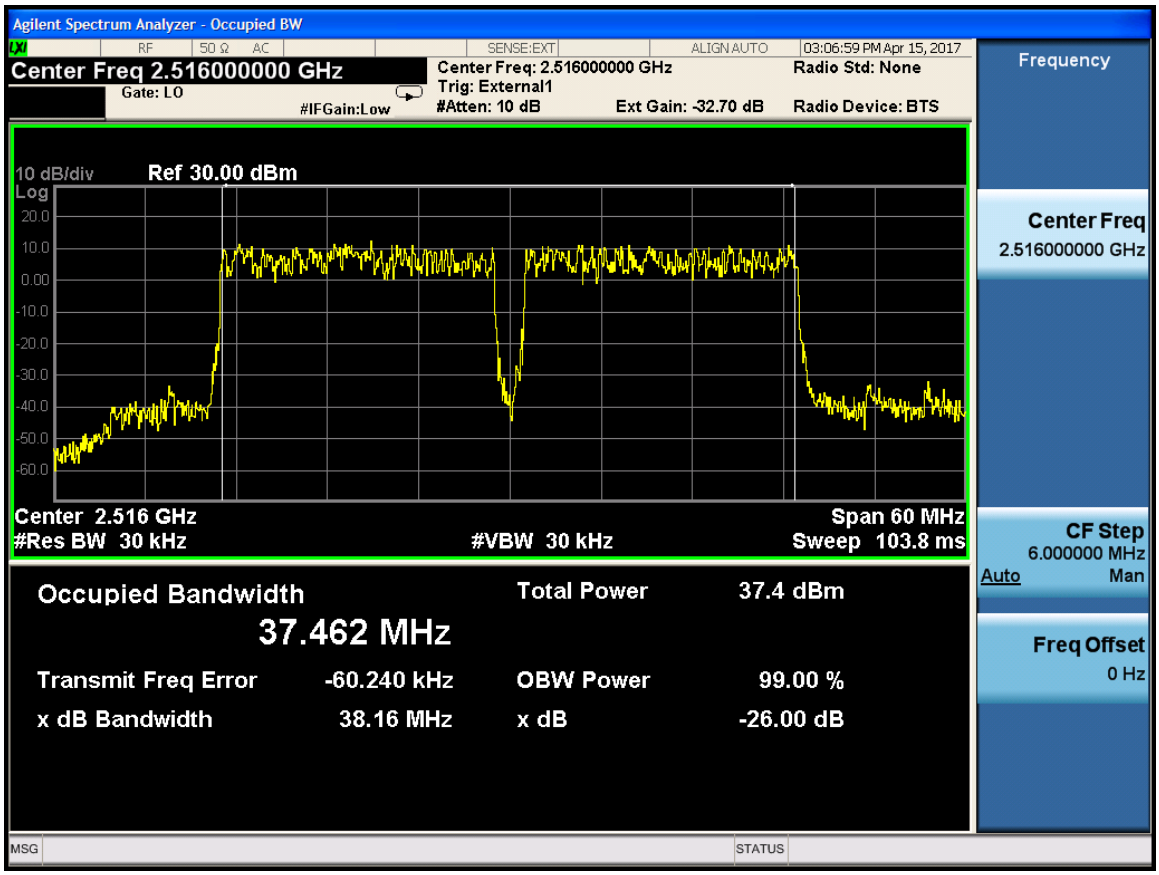
Two Carrier

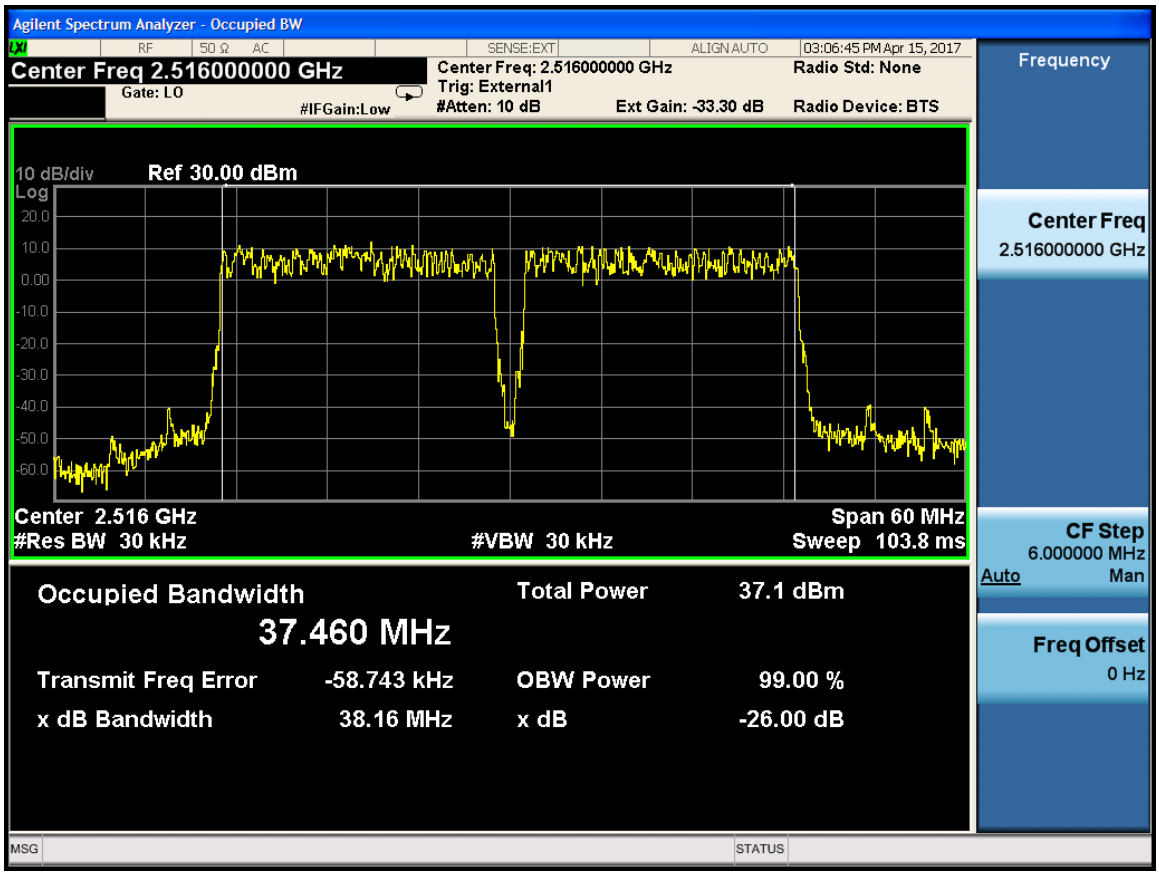
Channel Bandwidth: 20M+20M

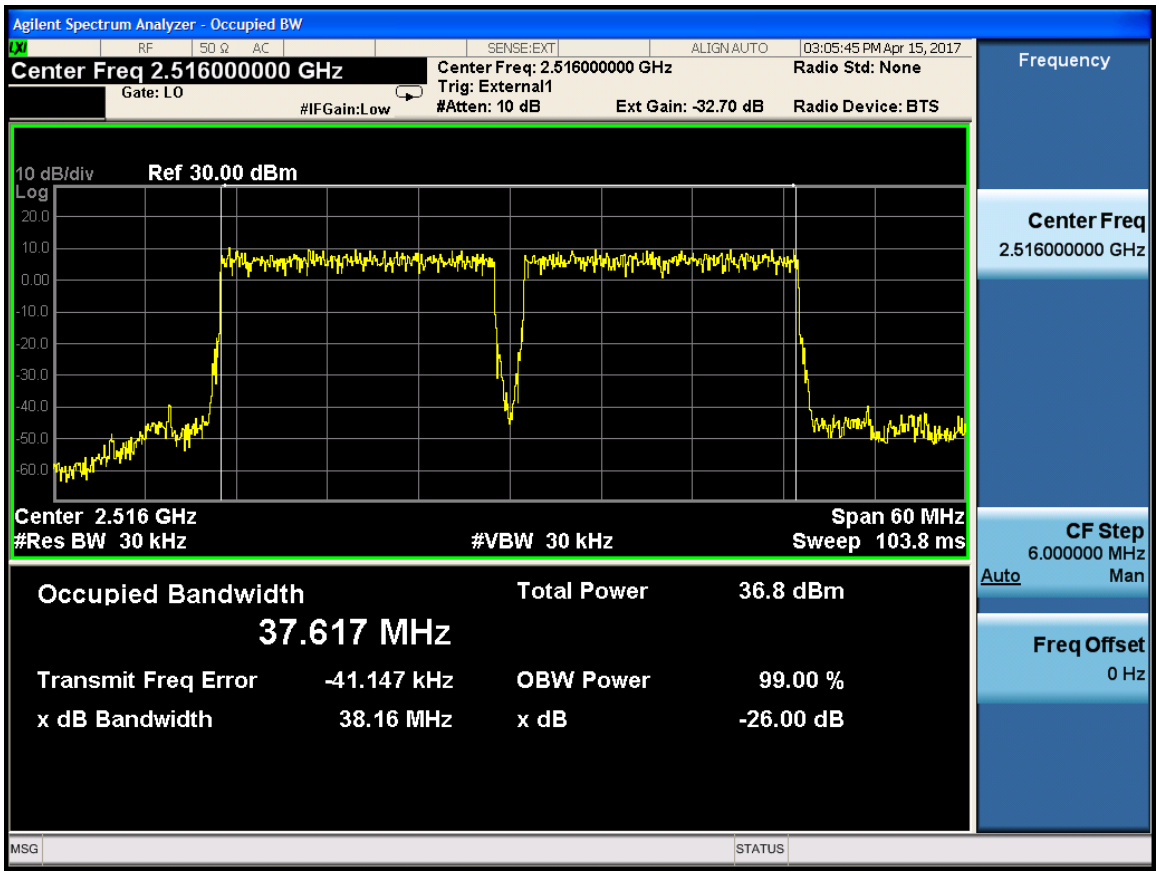
Port	Carrier Freq. c1+c2(MHz)	Occupied Bandwidth(MHz)		
		QPSK	16QAM	64QAM
0	2506+2526	37.78	37.46	37.62
1		37.78	37.46	37.62
0	2539+2559	37.63	37.64	37.62
1		37.63	37.64	37.63
0	2582+2592	37.62	37.64	37.61
1		37.62	37.64	37.61

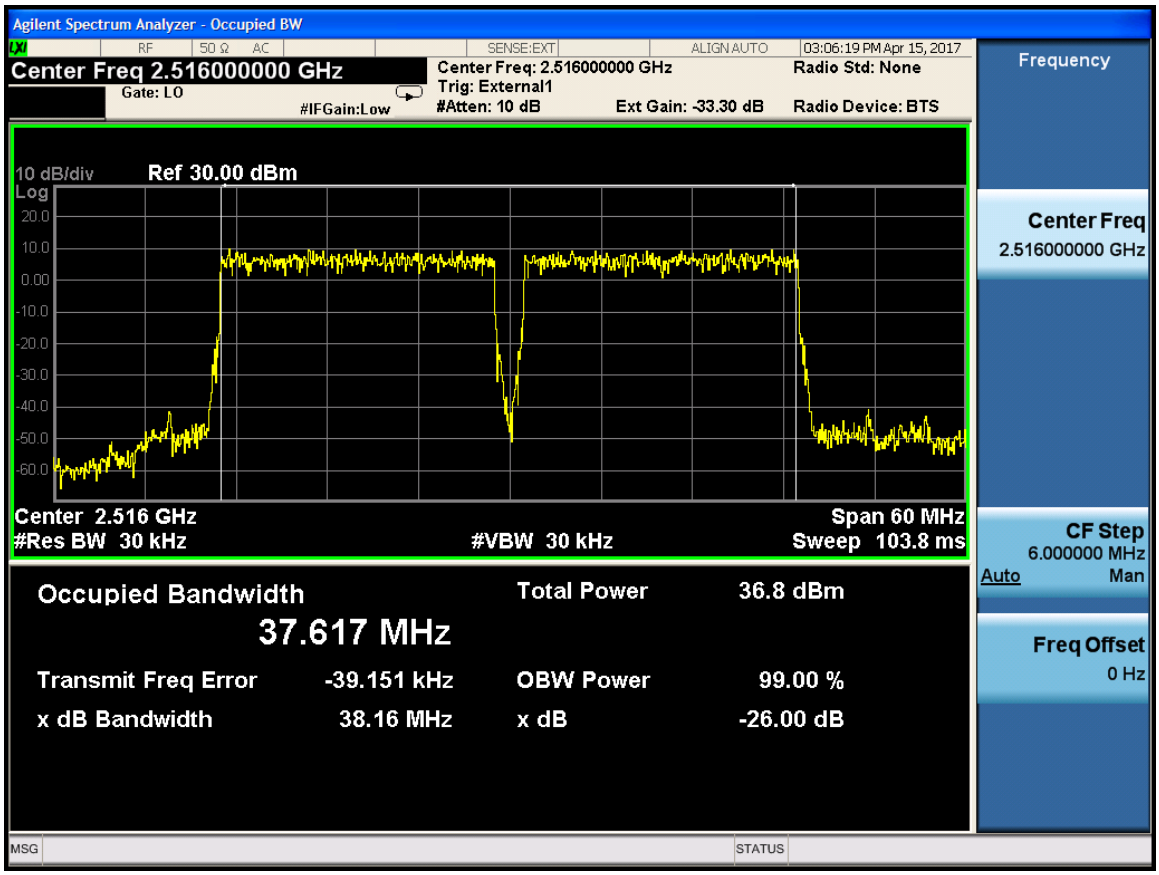

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:07:23 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.778 MHz
Total Power
37.0 dBm
Transmit Freq Error
36.872 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

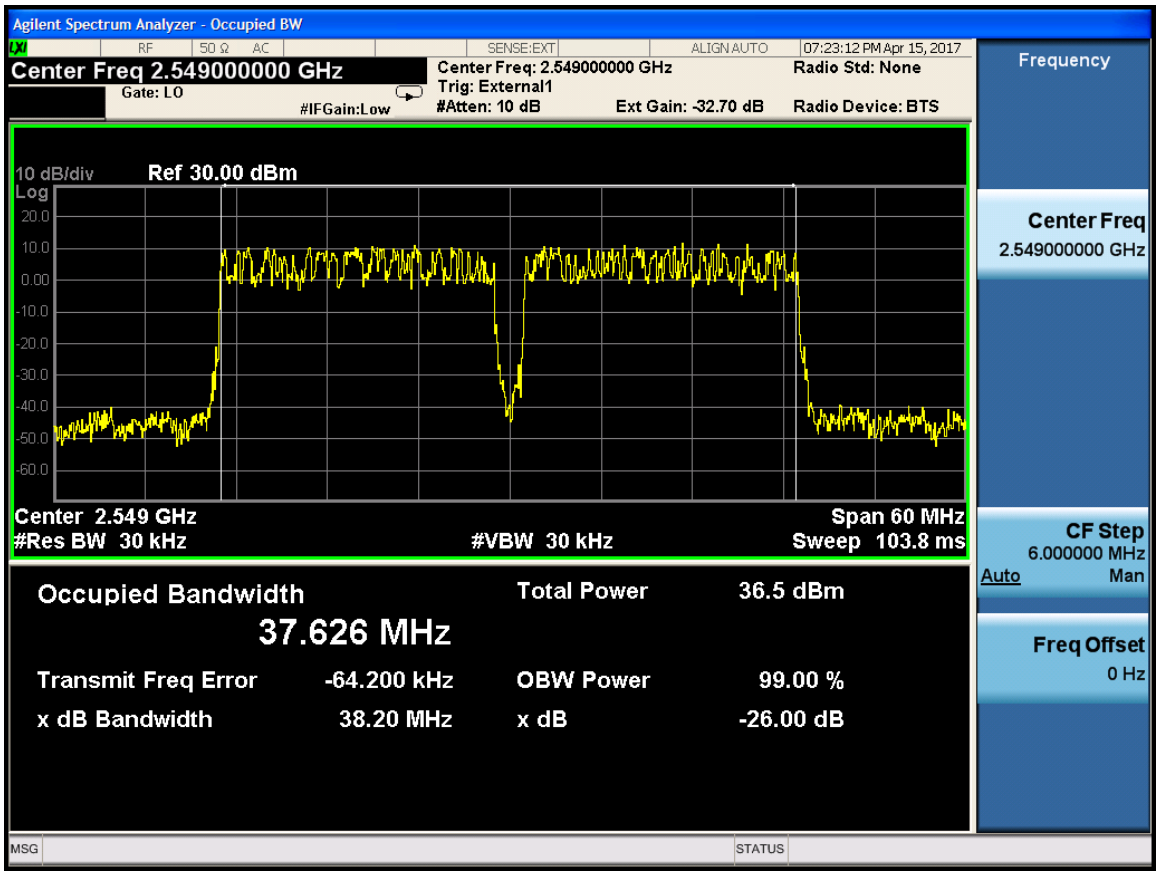

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:07:35 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.775 MHz
Total Power
36.7 dBm
Transmit Freq Error
39.337 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

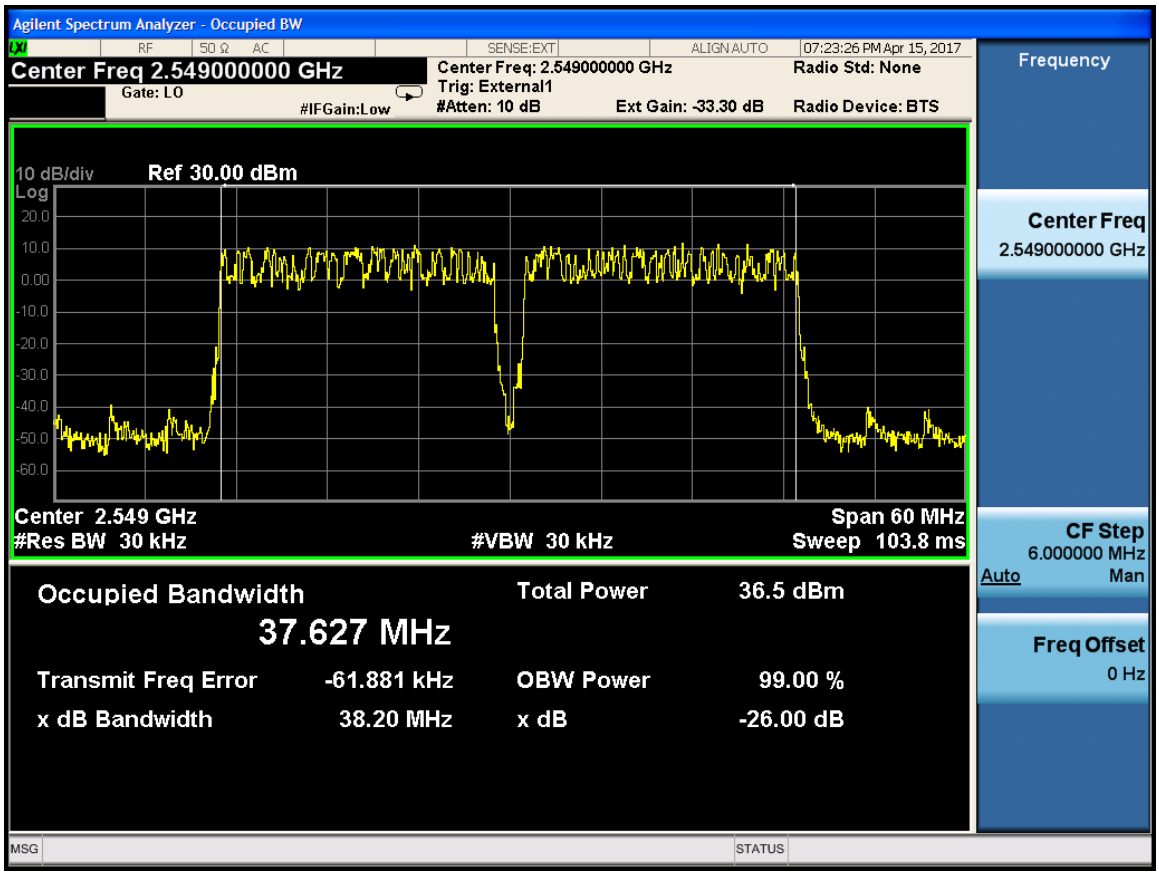

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:06:59 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.462 MHz
Total Power
37.4 dBm
Transmit Freq Error
-60.240 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

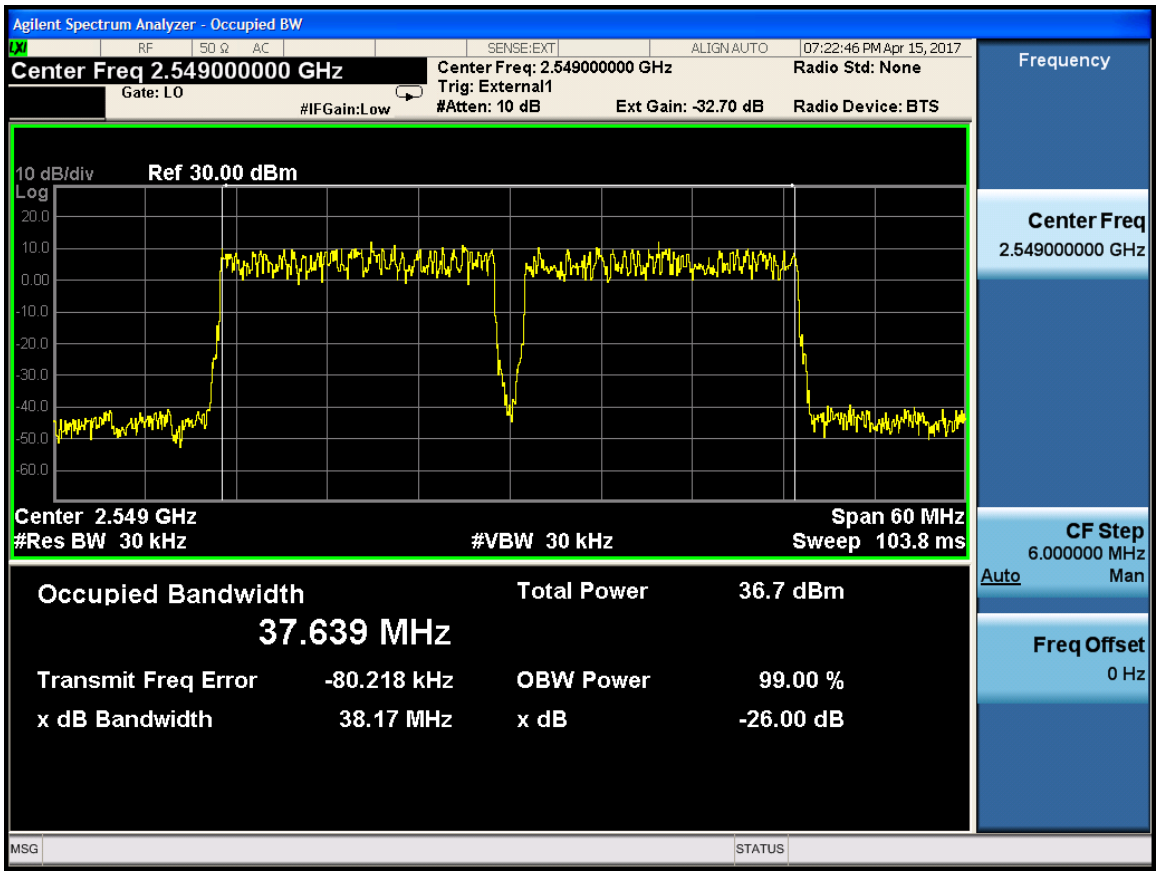

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:06:45 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.460 MHz
Total Power
37.1 dBm
Freq Offset
0 Hz
Transmit Freq Error
-58.743 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
MSG
STATUS

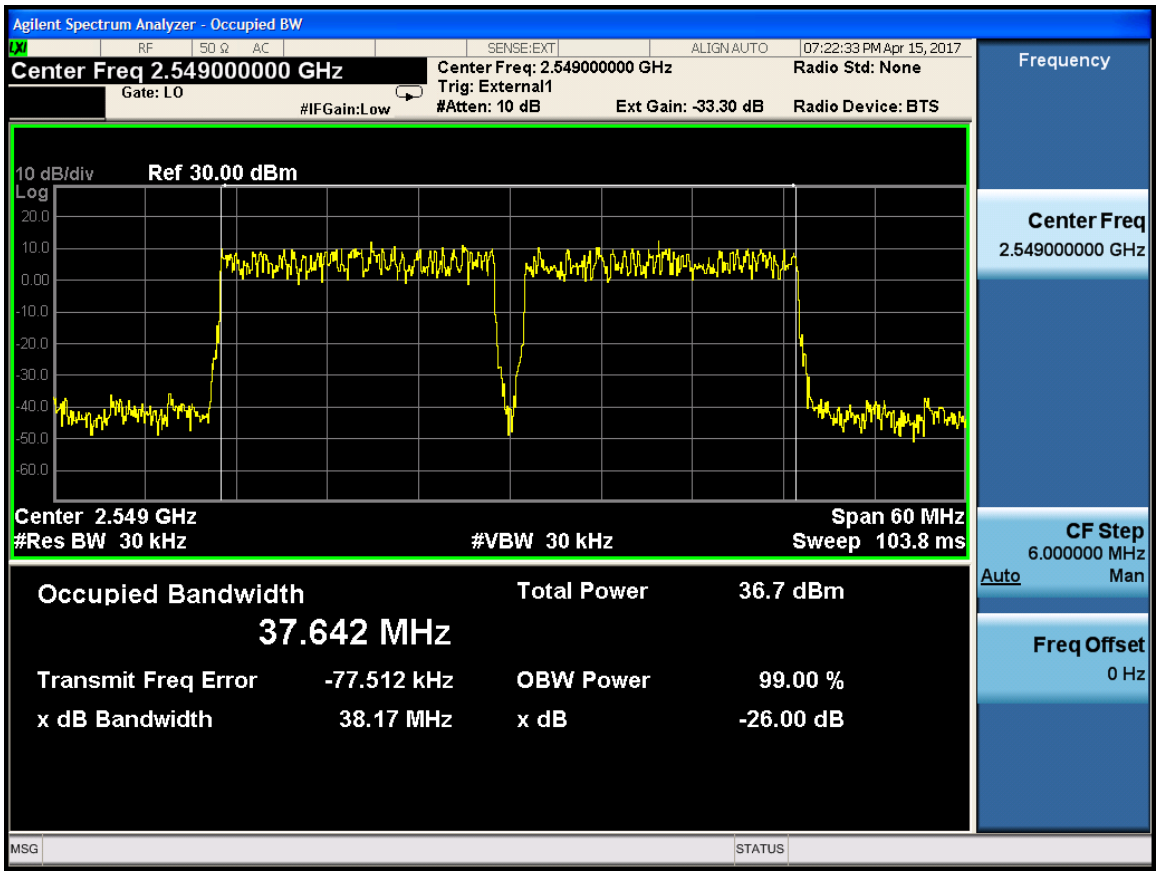

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:05:45 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.617 MHz
Total Power
36.8 dBm
Transmit Freq Error
-41.147 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

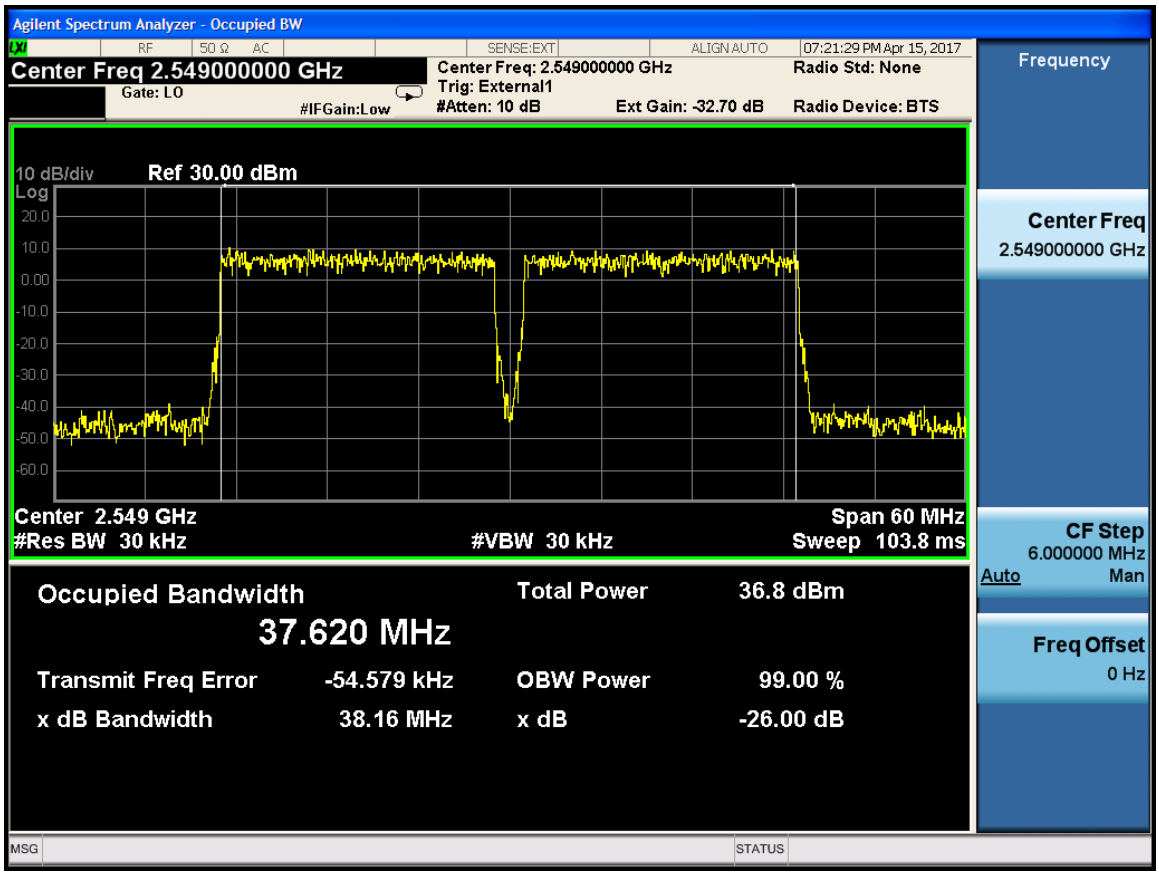

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
03:06:19 PM Apr 15, 2017
Center Freq 2.516000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.516000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.516000000 GHz
Center 2.516 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.617 MHz
Total Power
36.8 dBm
Freq Offset
0 Hz
Transmit Freq Error
-39.151 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
MSG
STATUS

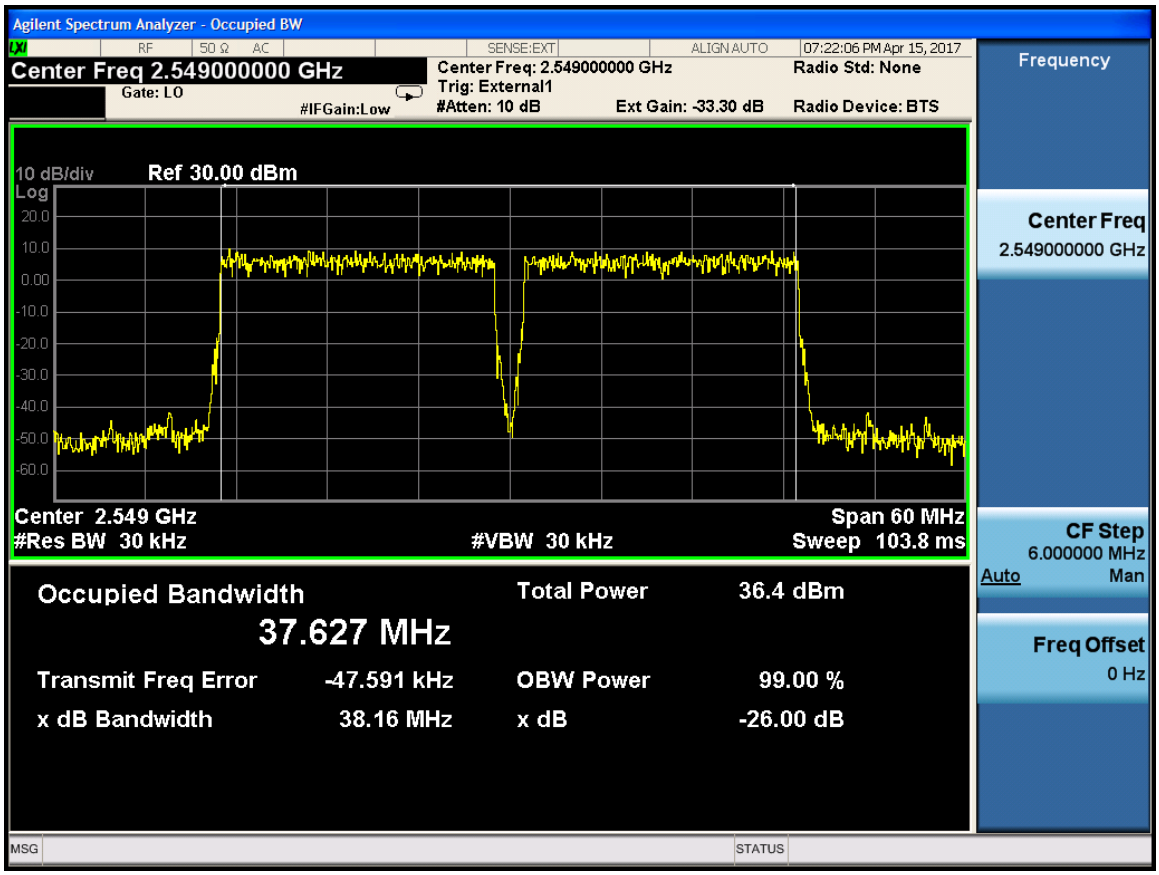

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:23:12 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.626 MHz
Total Power
36.5 dBm
Freq Offset
0 Hz
Transmit Freq Error
-64.200 kHz
OBW Power
99.00 %
x dB Bandwidth
38.20 MHz
x dB
-26.00 dB
MSG
STATUS

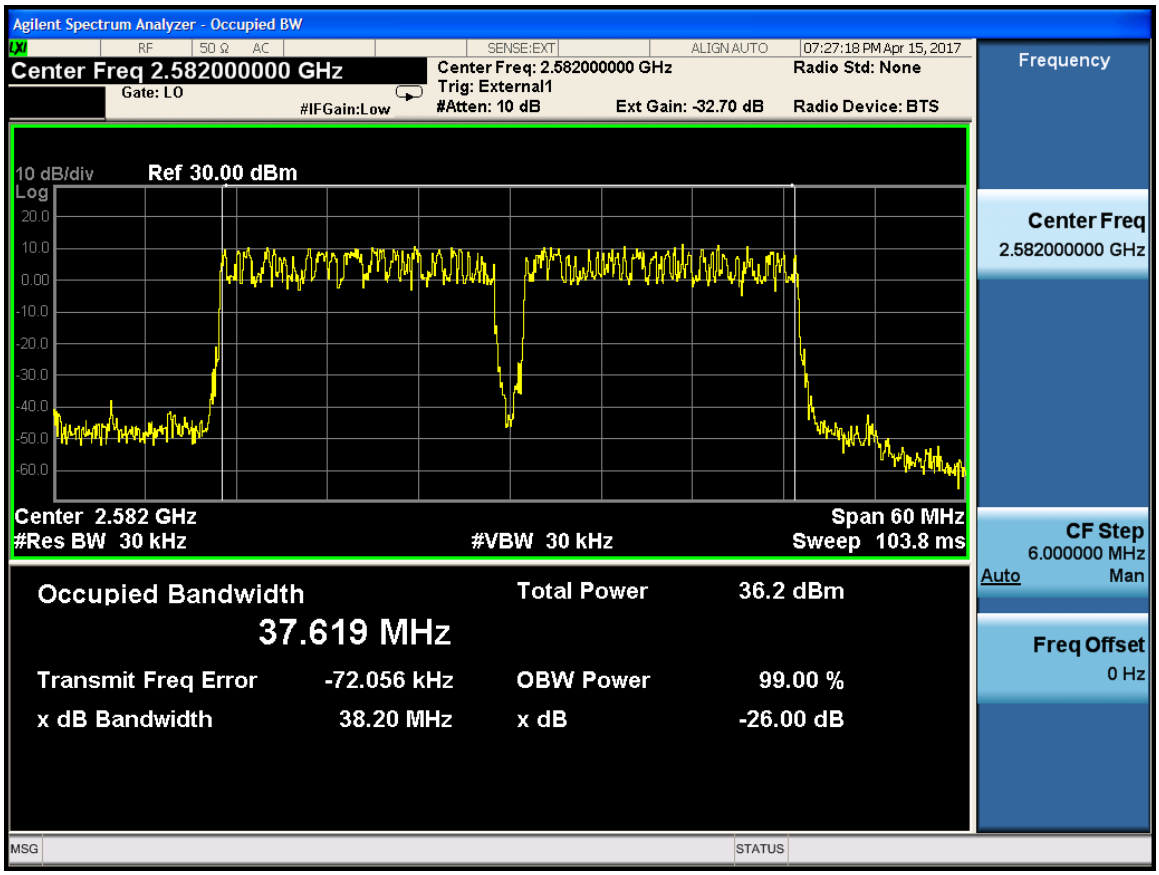

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:23:26 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.627 MHz
Total Power 36.5 dBm
Transmit Freq Error -61.881 kHz
OBW Power 99.00 %
x dB Bandwidth 38.20 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

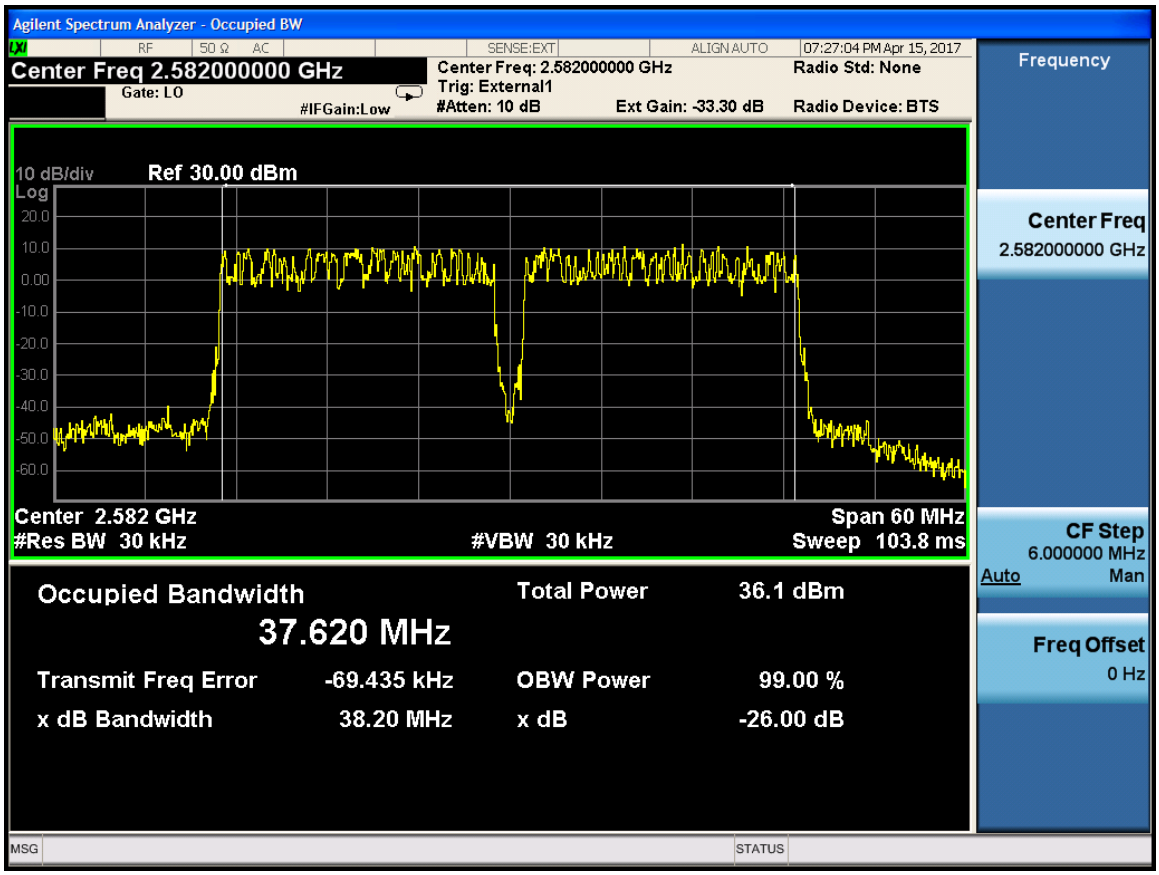

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:22:46 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.639 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-80.218 kHz
OBW Power
99.00 %
x dB Bandwidth
38.17 MHz
x dB
-26.00 dB
MSG
STATUS

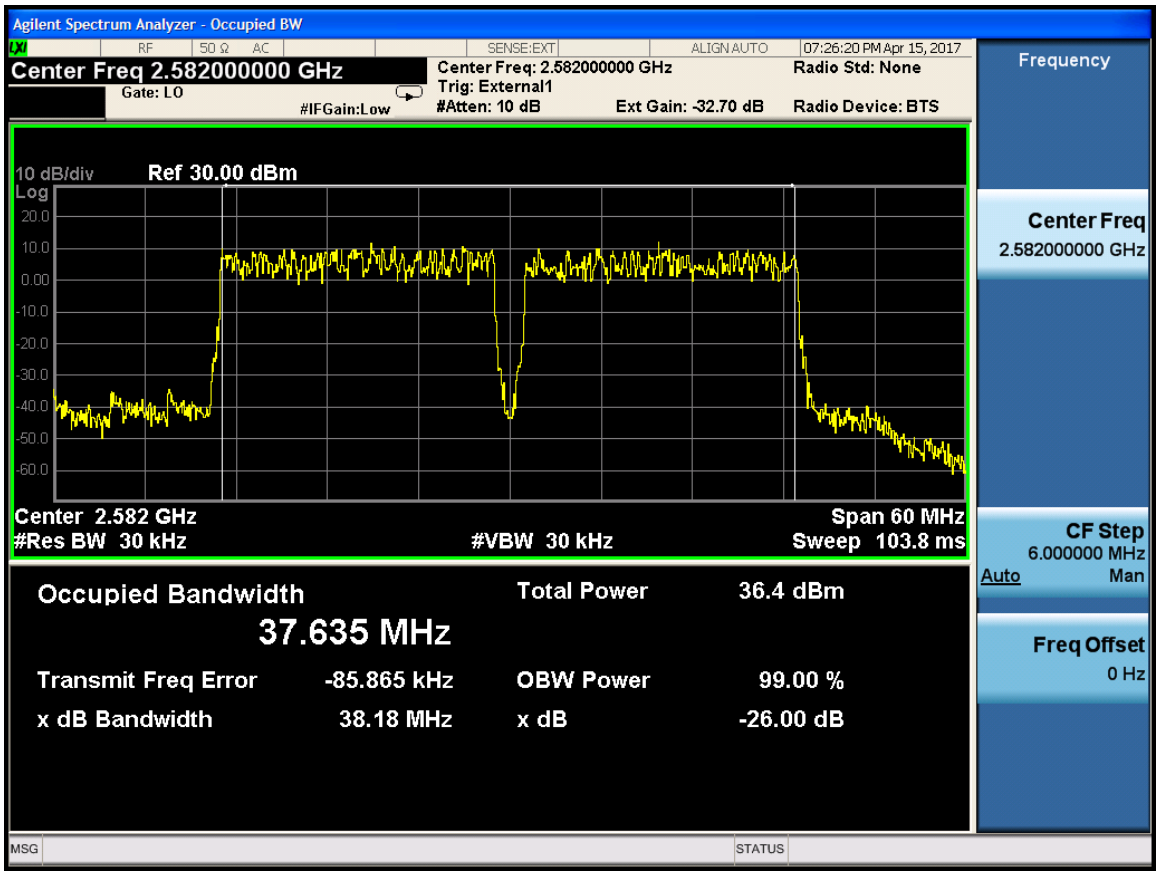

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:22:33 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.642 MHz
Total Power
36.7 dBm
Freq Offset
0 Hz
Transmit Freq Error
-77.512 kHz
OBW Power
99.00 %
x dB Bandwidth
38.17 MHz
x dB
-26.00 dB
MSG
STATUS

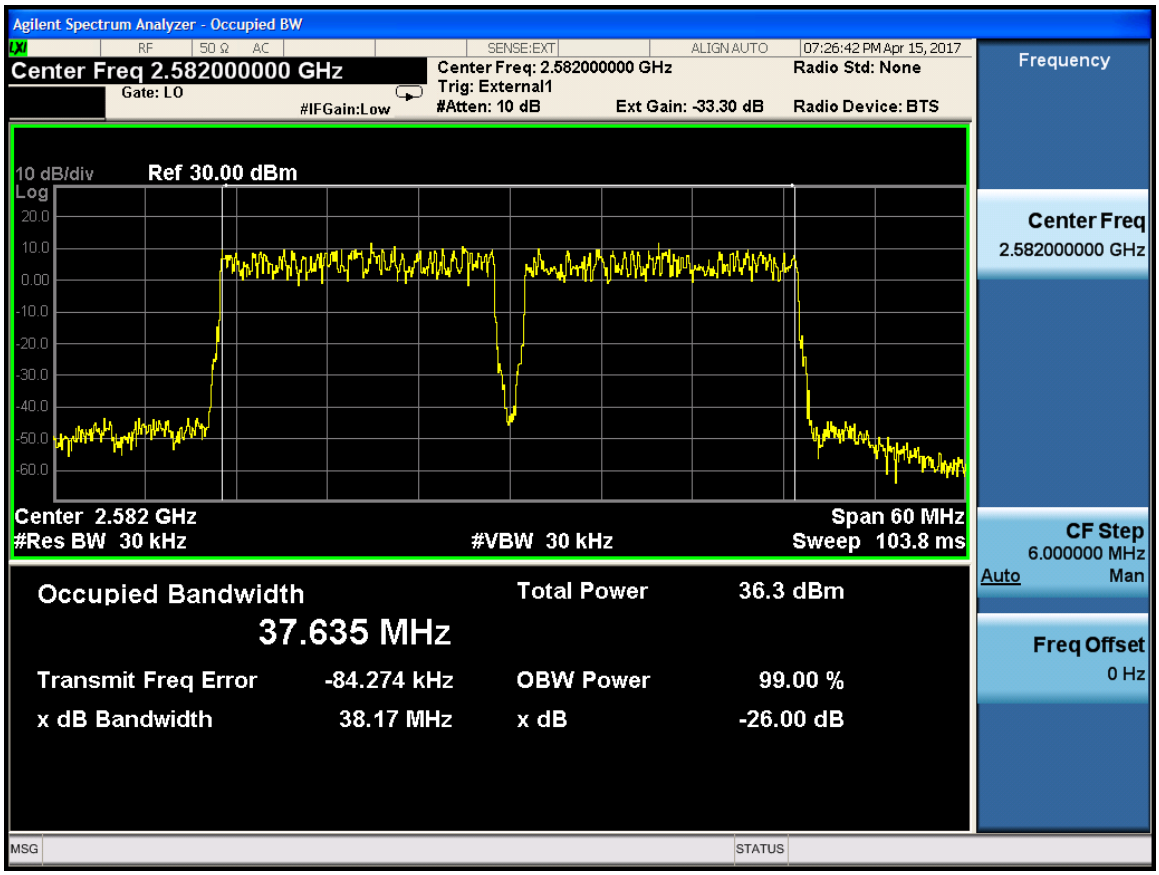

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:21:29 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.620 MHz
Total Power
36.8 dBm
Freq Offset
0 Hz
Transmit Freq Error
-54.579 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
MSG
STATUS

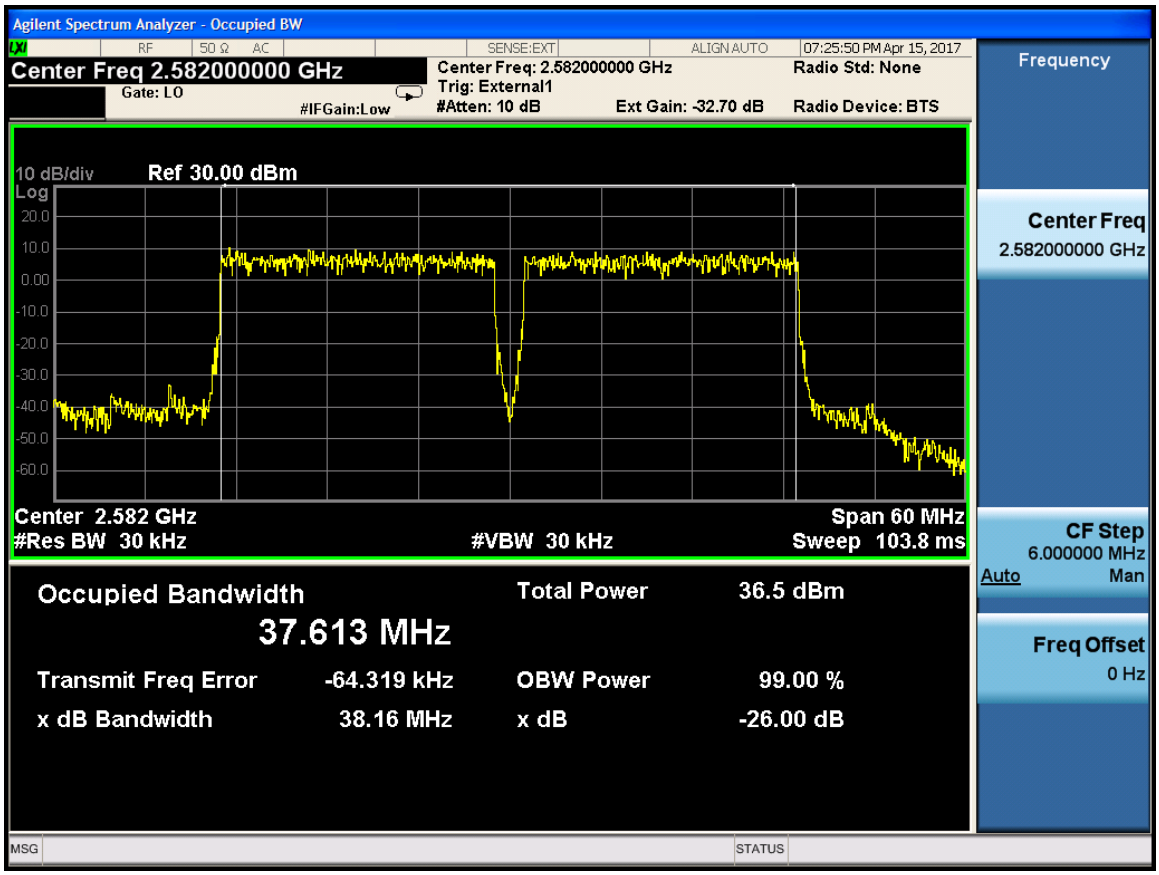

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:22:06 PM Apr 15, 2017
Center Freq 2.549000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.549000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.549000000 GHz
Center 2.549 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.627 MHz
Total Power
36.4 dBm
Transmit Freq Error
-47.591 kHz
OBW Power
99.00 %
x dB Bandwidth
38.16 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS

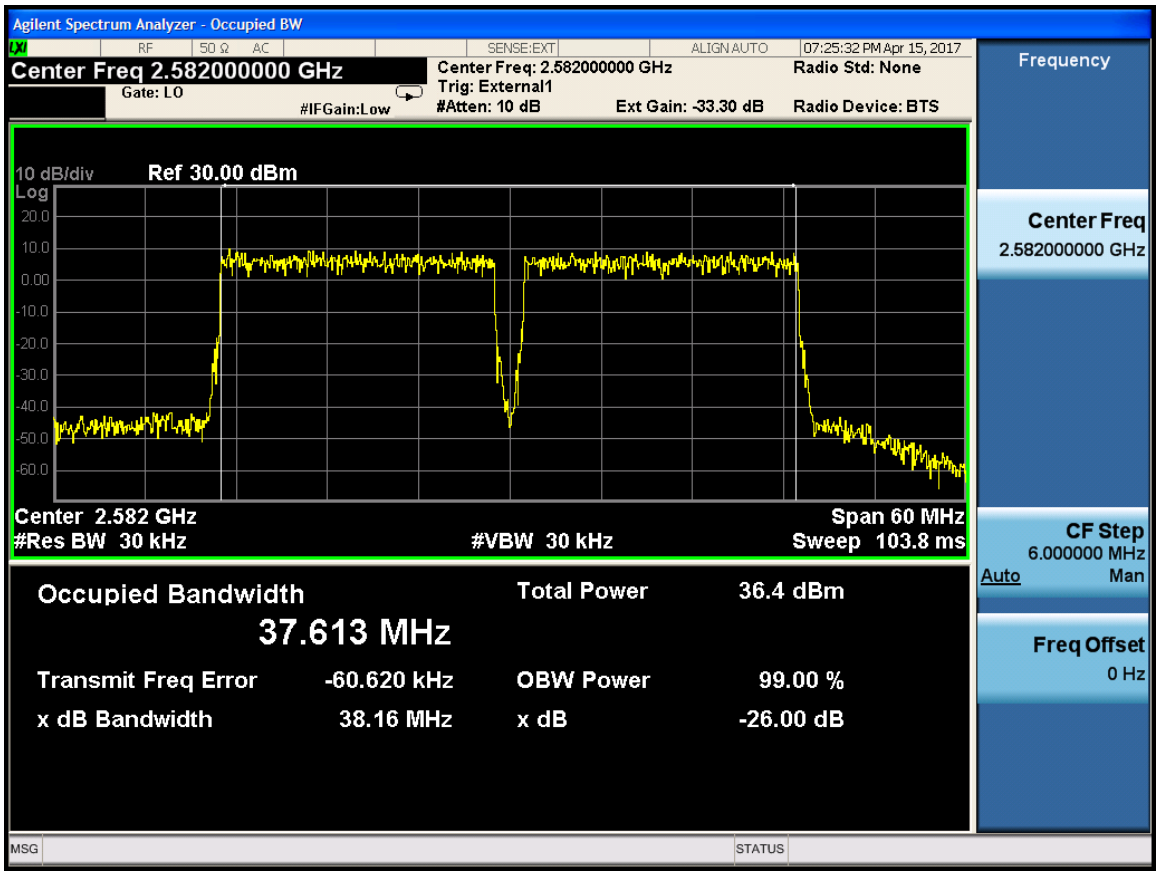

Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:27:18 PM Apr 15, 2017
Center Freq 2.582000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.582000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.582000000 GHz
Center 2.582 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.619 MHz
Total Power
36.2 dBm
Transmit Freq Error
-72.056 kHz
OBW Power
99.00 %
x dB Bandwidth
38.20 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:27:04 PM Apr 15, 2017
Center Freq 2.582000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.582000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.582000000 GHz
Center 2.582 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.620 MHz
Total Power
36.1 dBm
Transmit Freq Error
-69.435 kHz
OBW Power
99.00 %
x dB Bandwidth
38.20 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:26:20 PM Apr 15, 2017
Center Freq 2.582000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.582000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.582000000 GHz
Center 2.582 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.635 MHz
Total Power
36.4 dBm
Freq Offset
0 Hz
Transmit Freq Error
-85.865 kHz
OBW Power
99.00 %
x dB Bandwidth
38.18 MHz
x dB
-26.00 dB
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:26:42 PM Apr 15, 2017
Center Freq 2.582000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.582000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.582000000 GHz
Center 2.582 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.635 MHz
Total Power
36.3 dBm
Freq Offset
0 Hz
Transmit Freq Error
-84.274 kHz
OBW Power
99.00 %
x dB Bandwidth
38.17 MHz
x dB
-26.00 dB
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:25:50 PM Apr 15, 2017
Center Freq 2.582000000 GHz
Gate: LO
#IFGain:Low
Center Freq: 2.582000000 GHz
Trig: External1
#Atten: 10 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
Center Freq
2.582000000 GHz
Center 2.582 GHz
#Res BW 30 kHz
#VBW 30 kHz
Span 60 MHz
Sweep 103.8 ms
CF Step
6.000000 MHz
Auto
Man
Occupied Bandwidth
37.613 MHz
Total Power 36.5 dBm
Freq Offset
0 Hz
Transmit Freq Error -64.319 kHz
OBW Power 99.00 %
x dB Bandwidth 38.16 MHz
x dB -26.00 dB
MSG
STATUS



7 SPURIOUS EMISSIONS AT PORTENNA TERMINALS

Applicable Standard: FCC§2.1051, §27.53

For digital base stations, the attenuation shall be not less than 43+10log (P) dB, unless a documented interference complaint is received from an adjacent channel licensee with an overlapping Geographic Service Area. Mobile Satellite Service licensees operating on frequencies below 2495MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS No.1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Provided applicable deadline, then the following additional attenuation requirements shall apply.

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

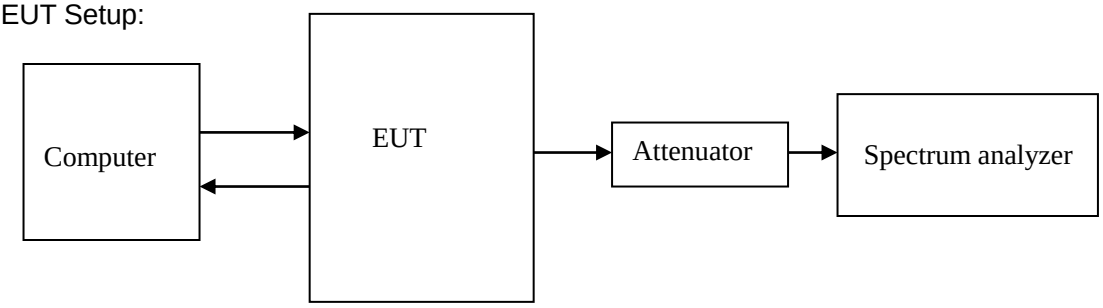
Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	MXA Series Spectrum Analyzer	N9020A	MY51240239	2016.11.28	2017.11.28
Agilent	MXA Series Spectrum Analyze	N9030A	MY53310566	2017.03.15	2018.03.15

*__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:



The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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

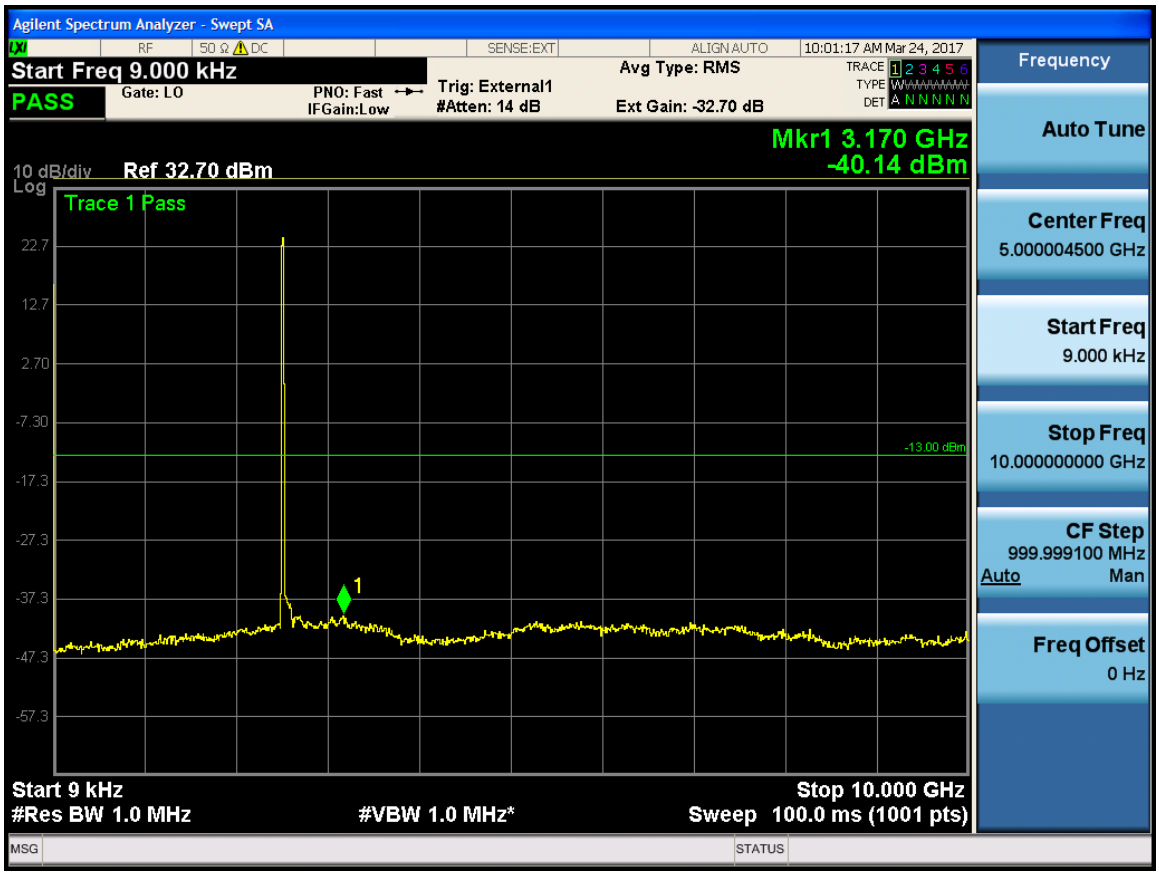
Test Mode: Transmitting LTE

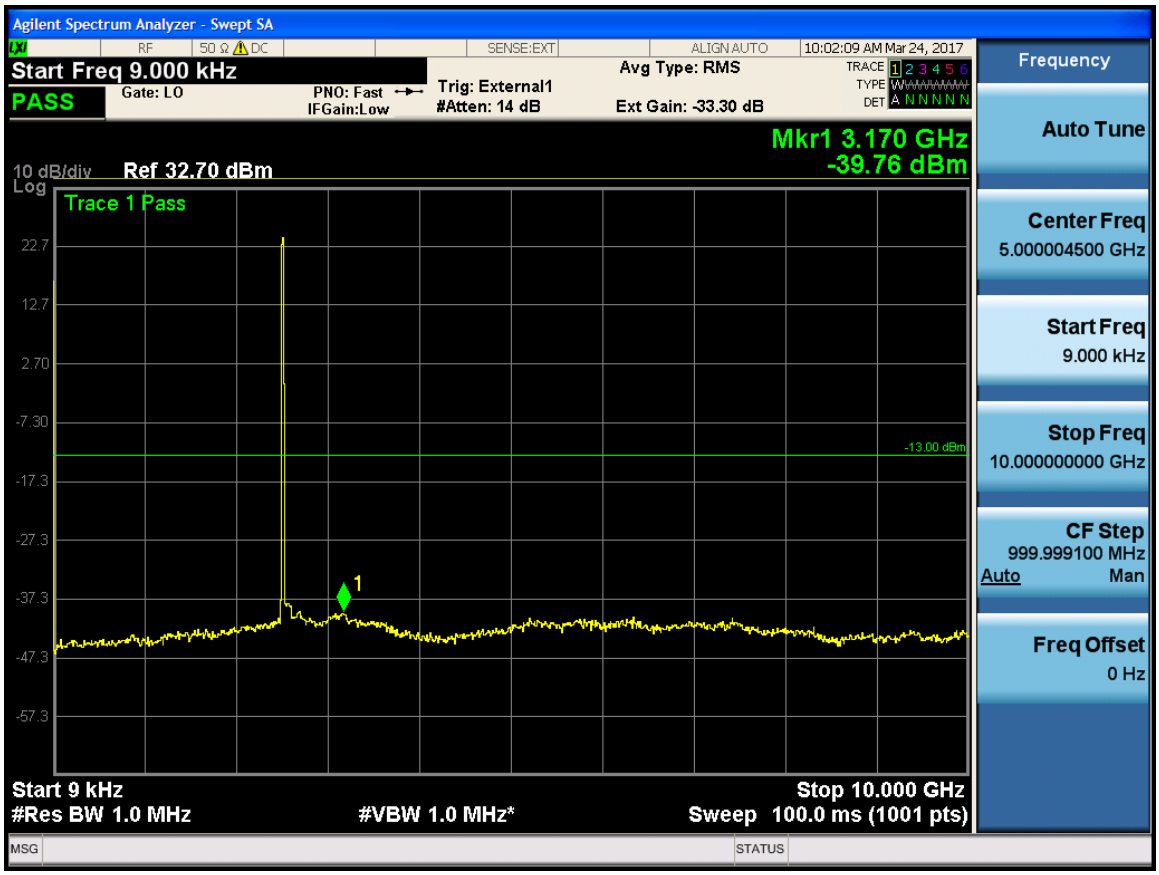
Test Data:

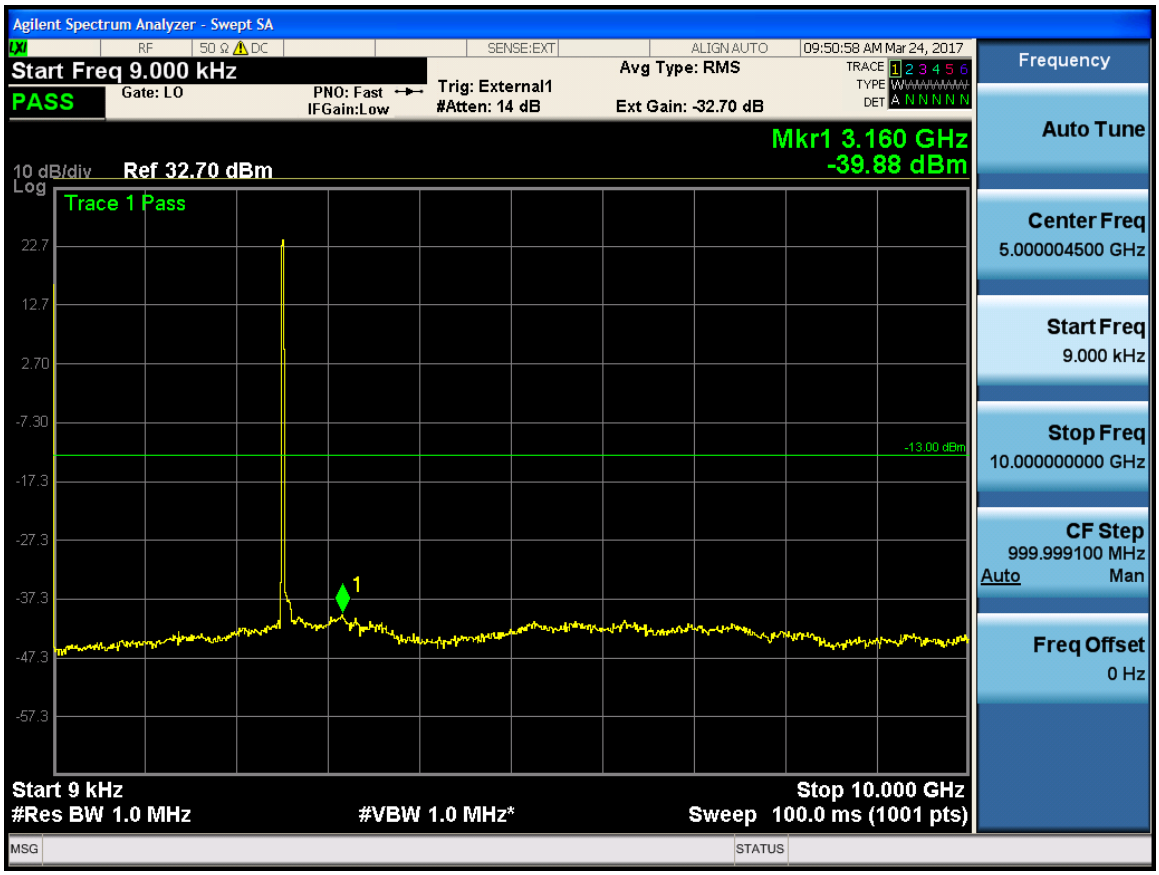
One Carrier

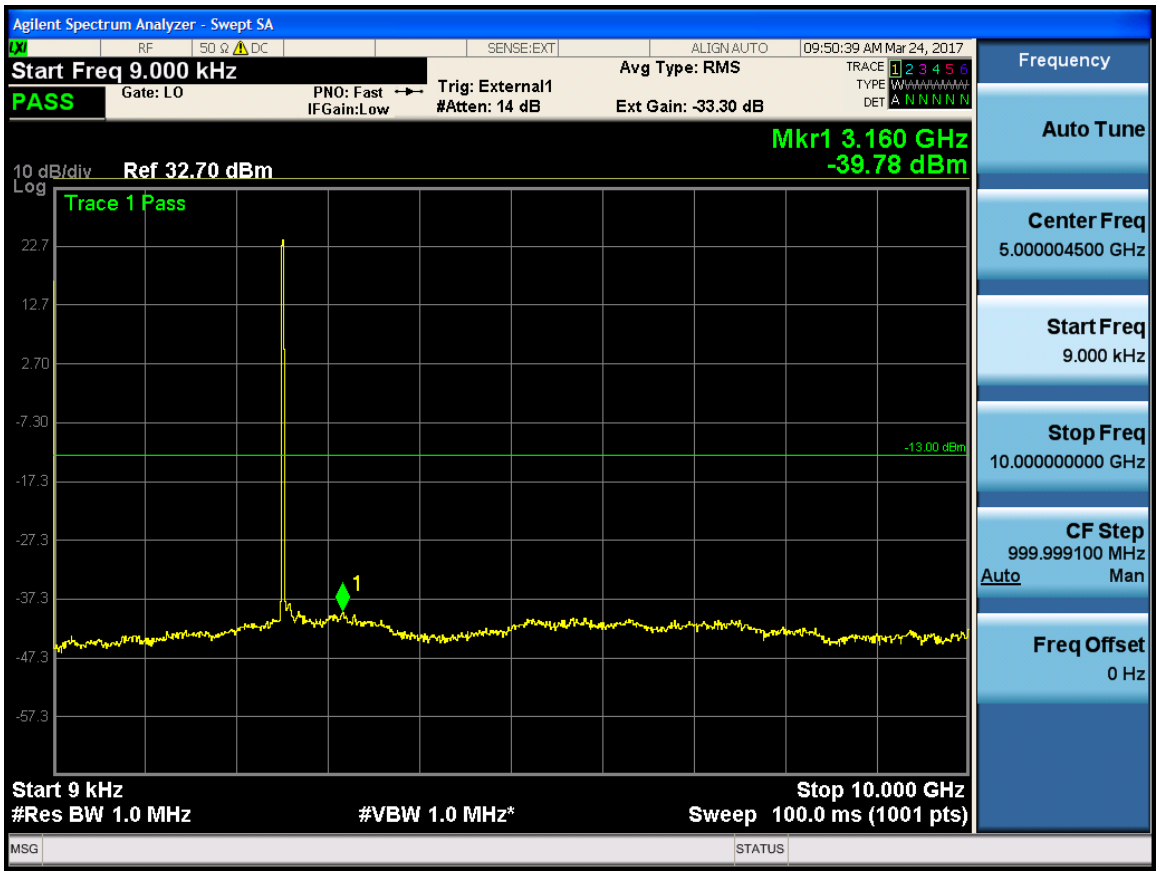
Channel Bandwidth: 20M

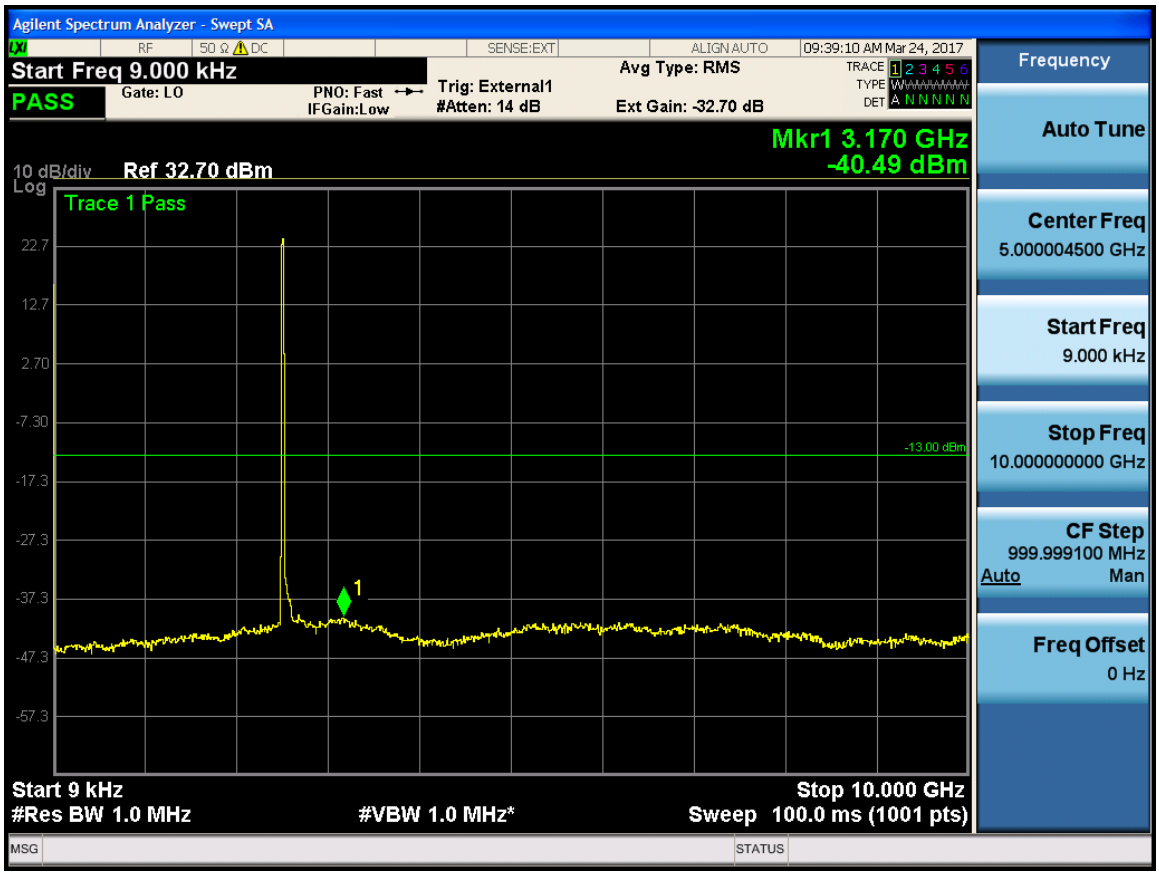
Port	Carrier Freq(MHz)	Spurious Emissions								
		QPSK			16QAM			64QAM		
		9k-10G	10G-26.5G	Band Edge	9k-10G	10G-26.5G	Band Edge	9k-10G	10G-26.5G	Band Edge
0	2506	-40.14	-36.14	-18.48	-39.88	-36.22	-18.89	-40.49	-36.28	-19.03
1		-39.76	-35.6	-19.53	-39.78	-35.64	-19.07	-39.48	-35.68	-19.32
0	2549	-40.15	-36.49	-18.09	-40.33	-36.17	-18.86	-40.32	-36.1	-18.86
1		-39.39	-35.59	-18.87	-39.13	-35.42	-19.21	-39.64	-35.53	-19.22
0	2592	-40.23	-36.15	-17.84	-40.24	-35.83	-19.51	-42.47	-36.07	-19.38
1		-39.62	-35.44	-18.73	-41.83	-35.49	-19.73	-41.42	-35.47	-19.82

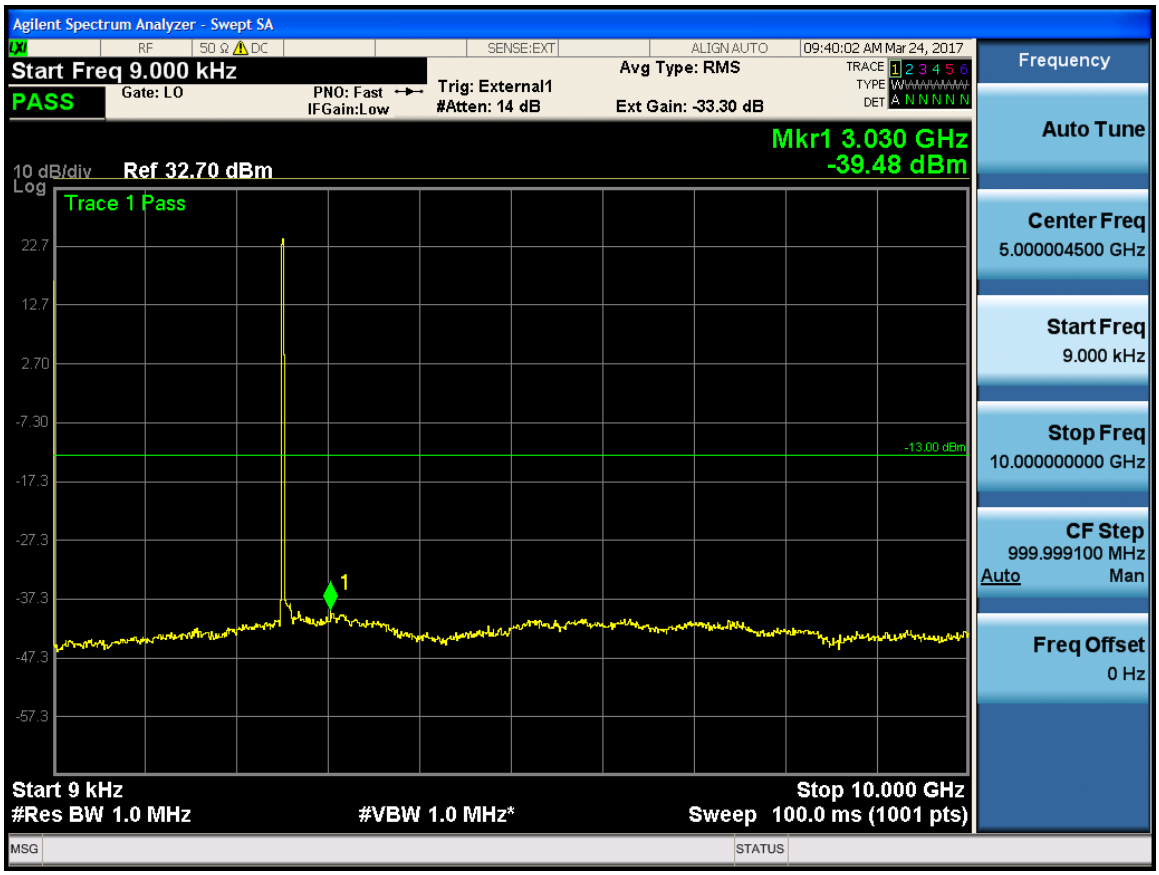

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
10:01:17 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-40.14 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

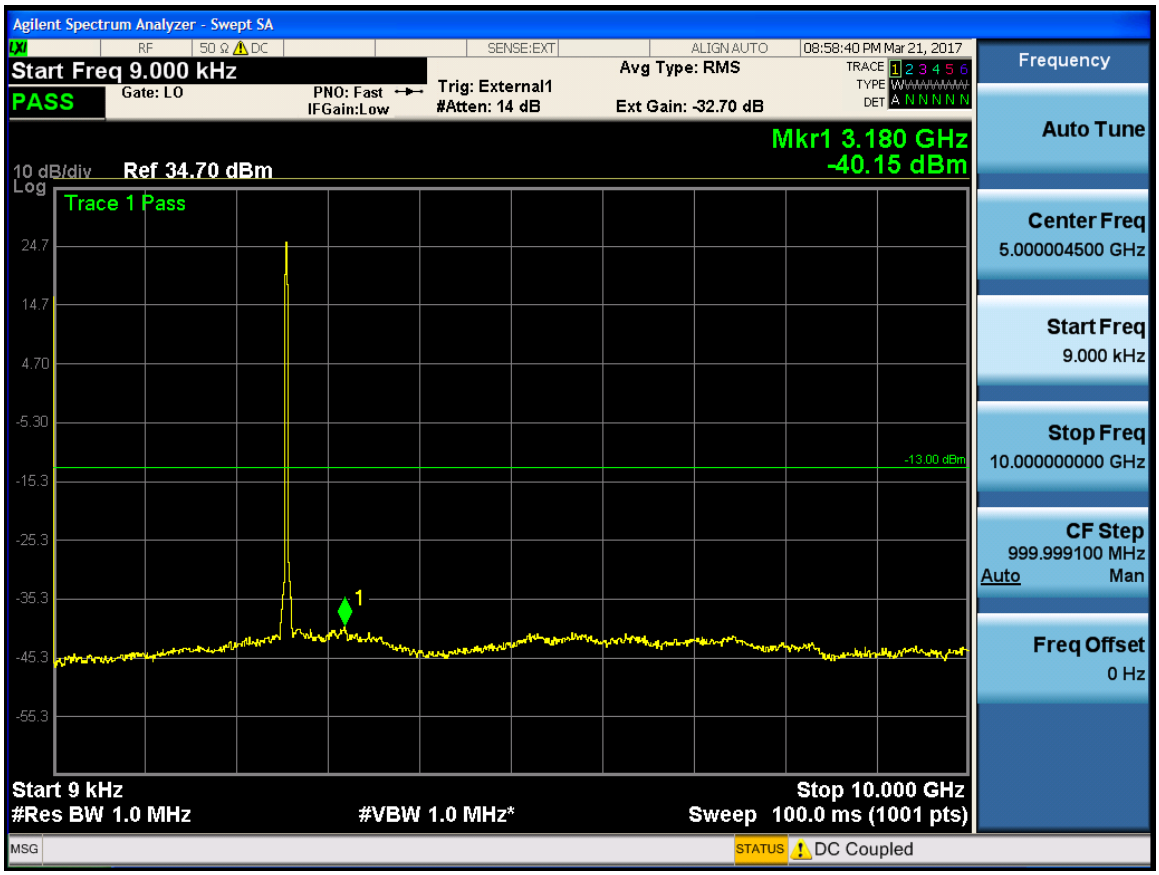

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
10:02:09 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-39.76 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

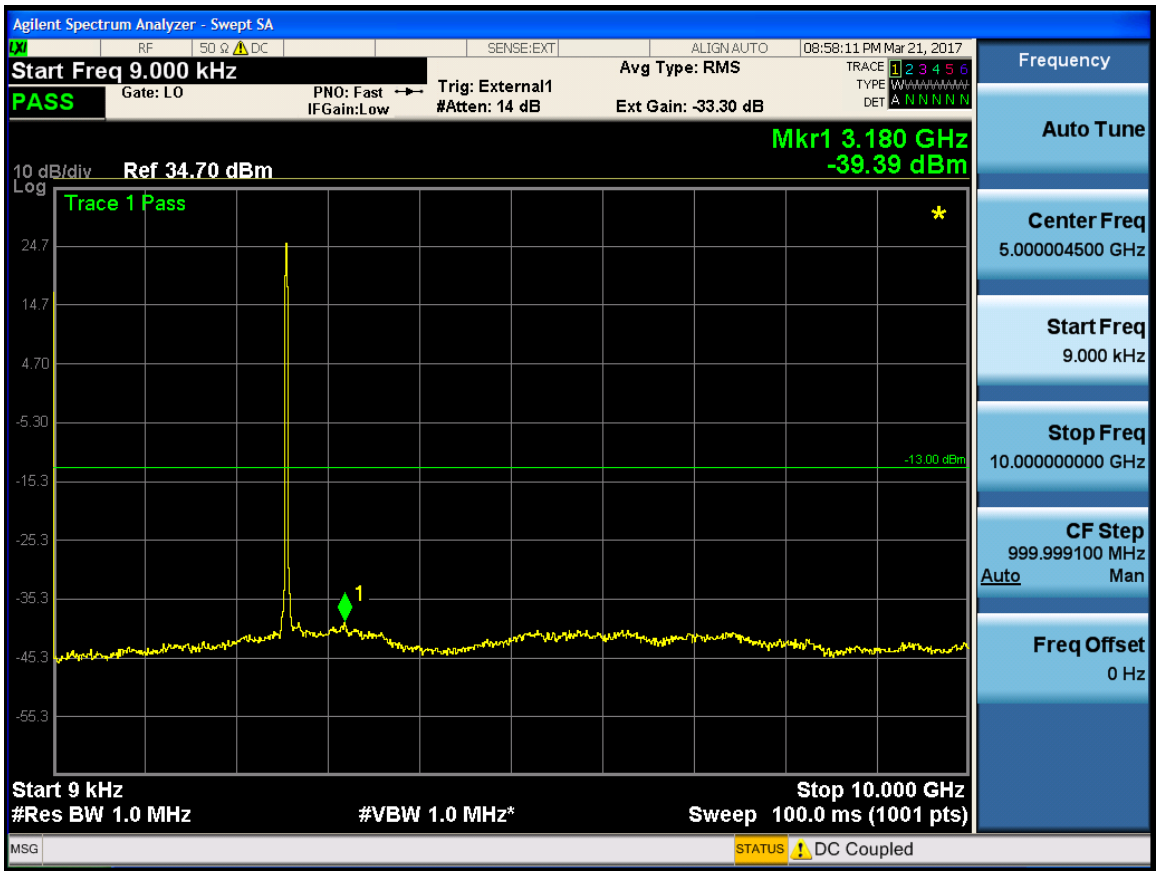

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
09:50:58 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 3.160 GHz
-39.88 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

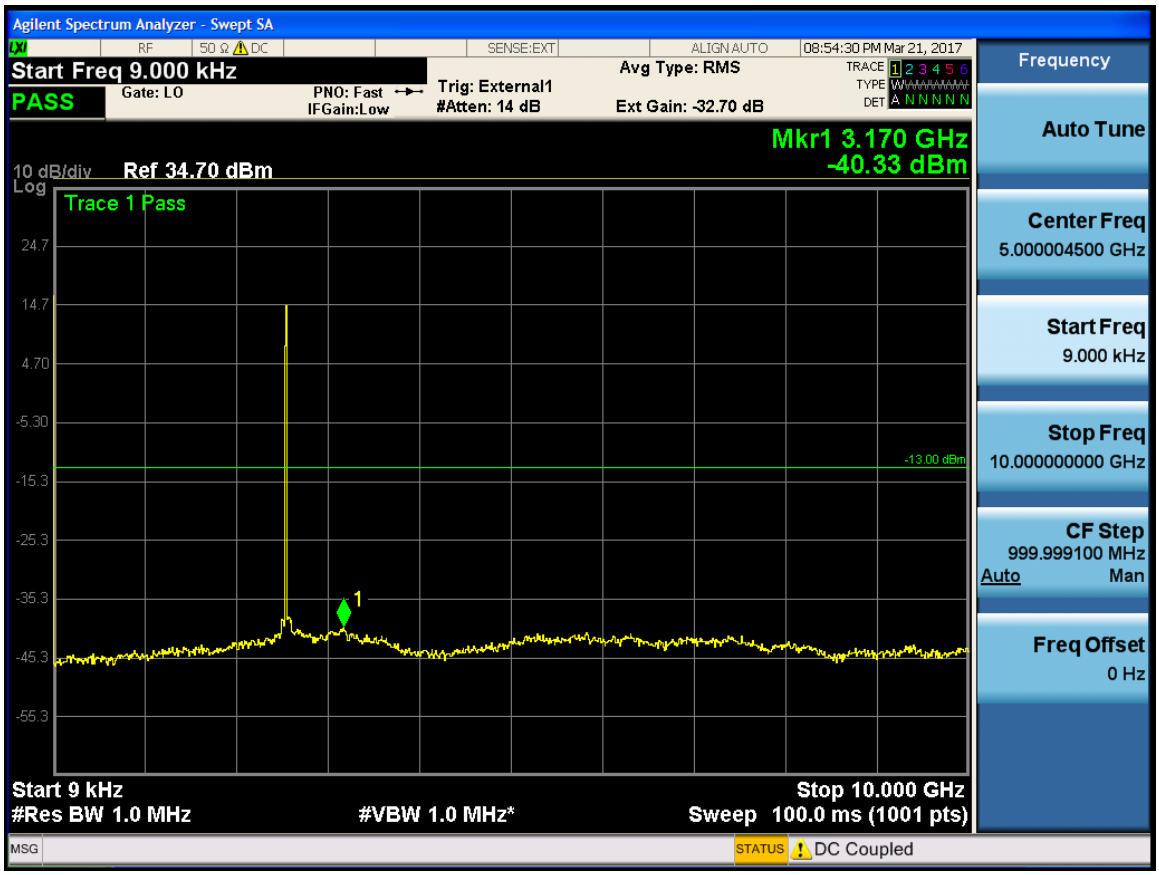

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
09:50:39 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.160 GHz
-39.78 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

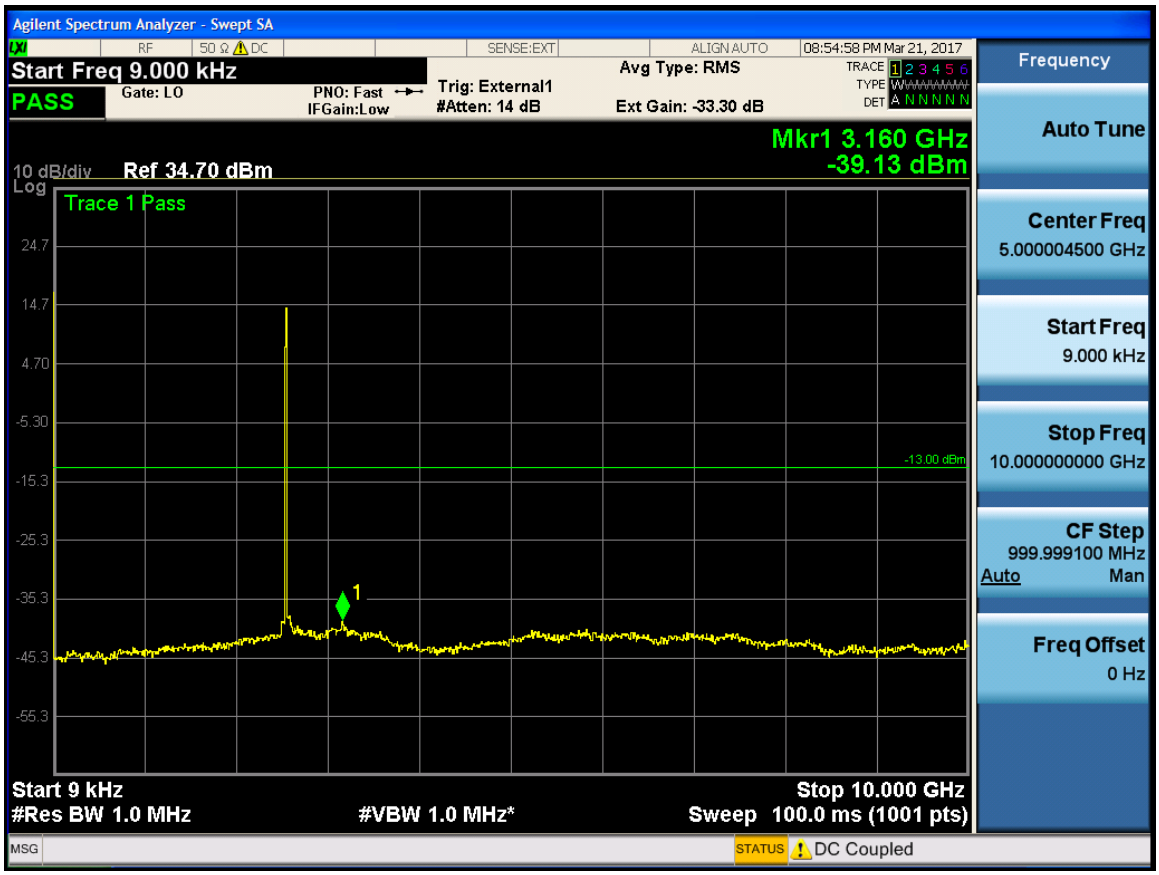

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
09:39:10 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 3.170 GHz
-40.49 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

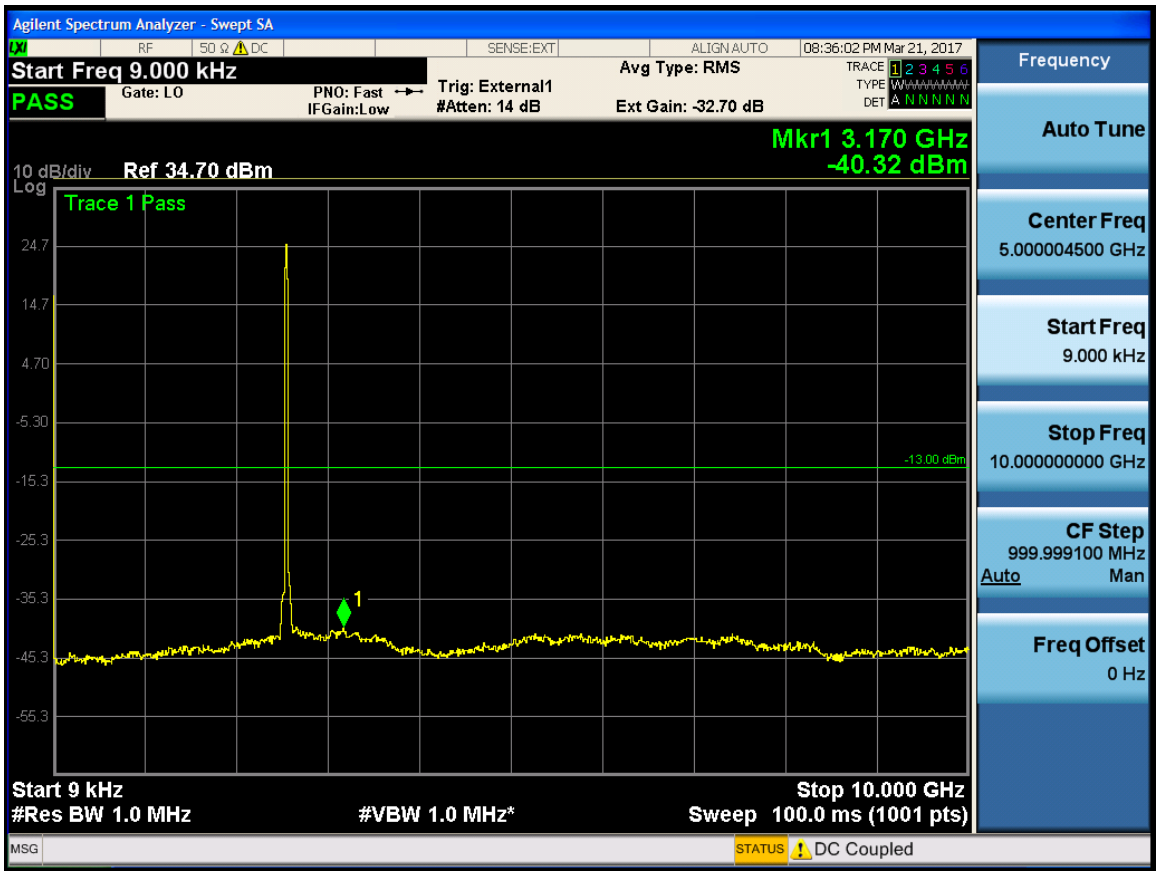

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
09:40:02 AM Mar 24, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.030 GHz
-39.48 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

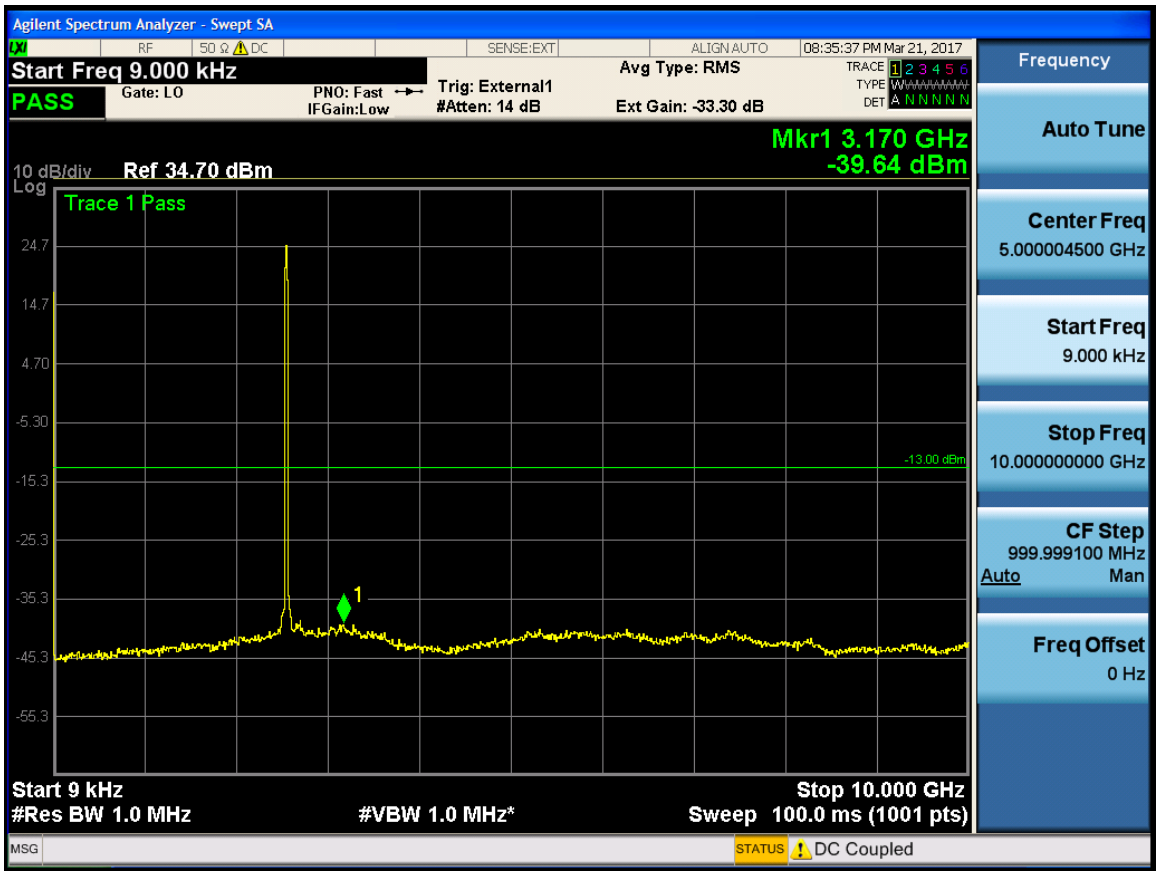

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:58:40 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.180 GHz
-40.15 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

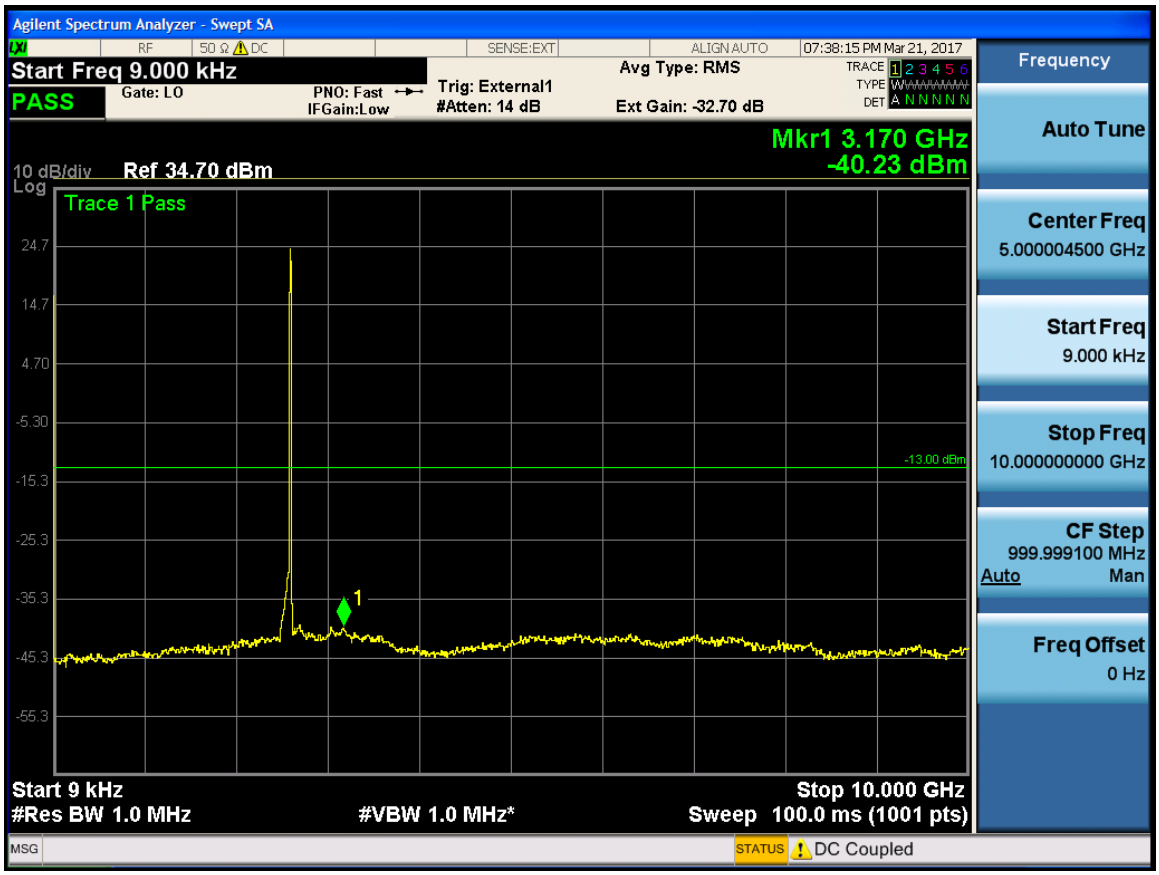

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:58:11 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.180 GHz
-39.39 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

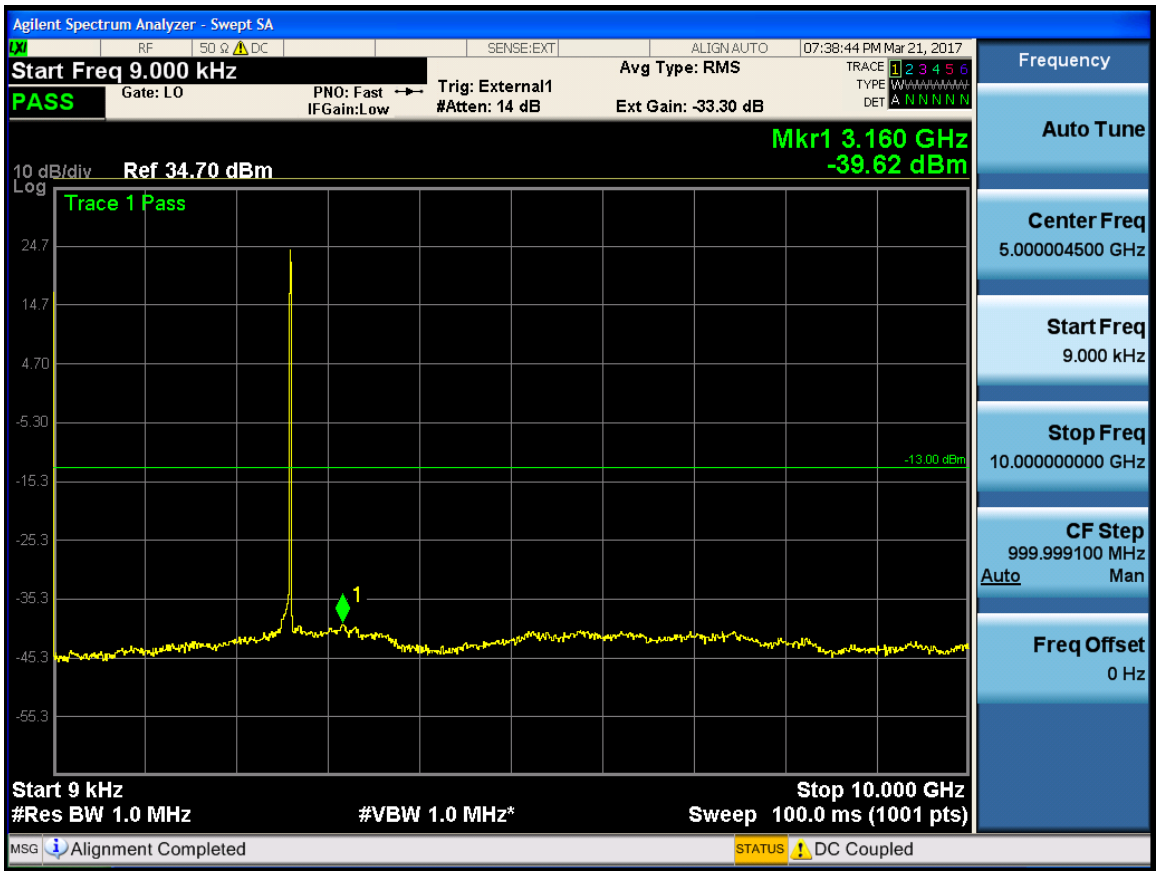

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:54:30 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-40.33 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

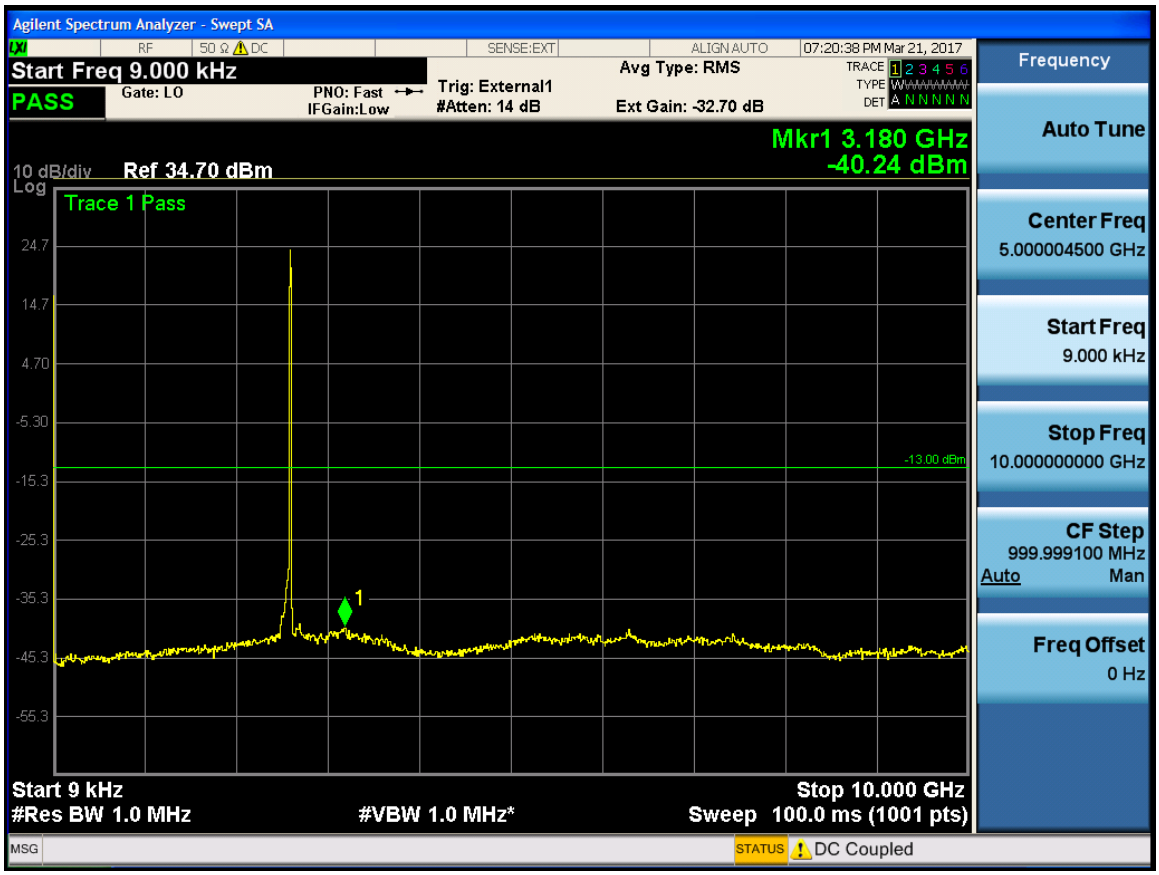

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:54:58 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.160 GHz
-39.13 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

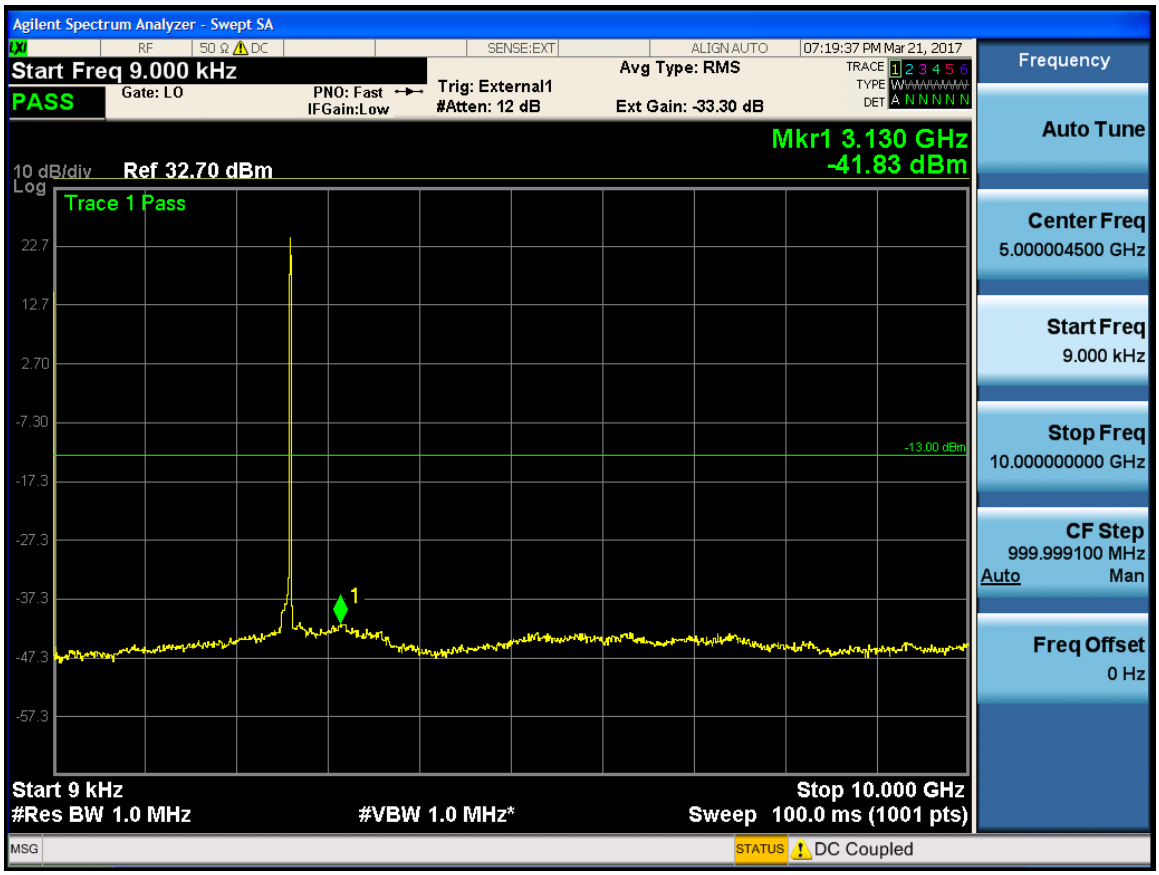

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:36:02 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-40.32 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

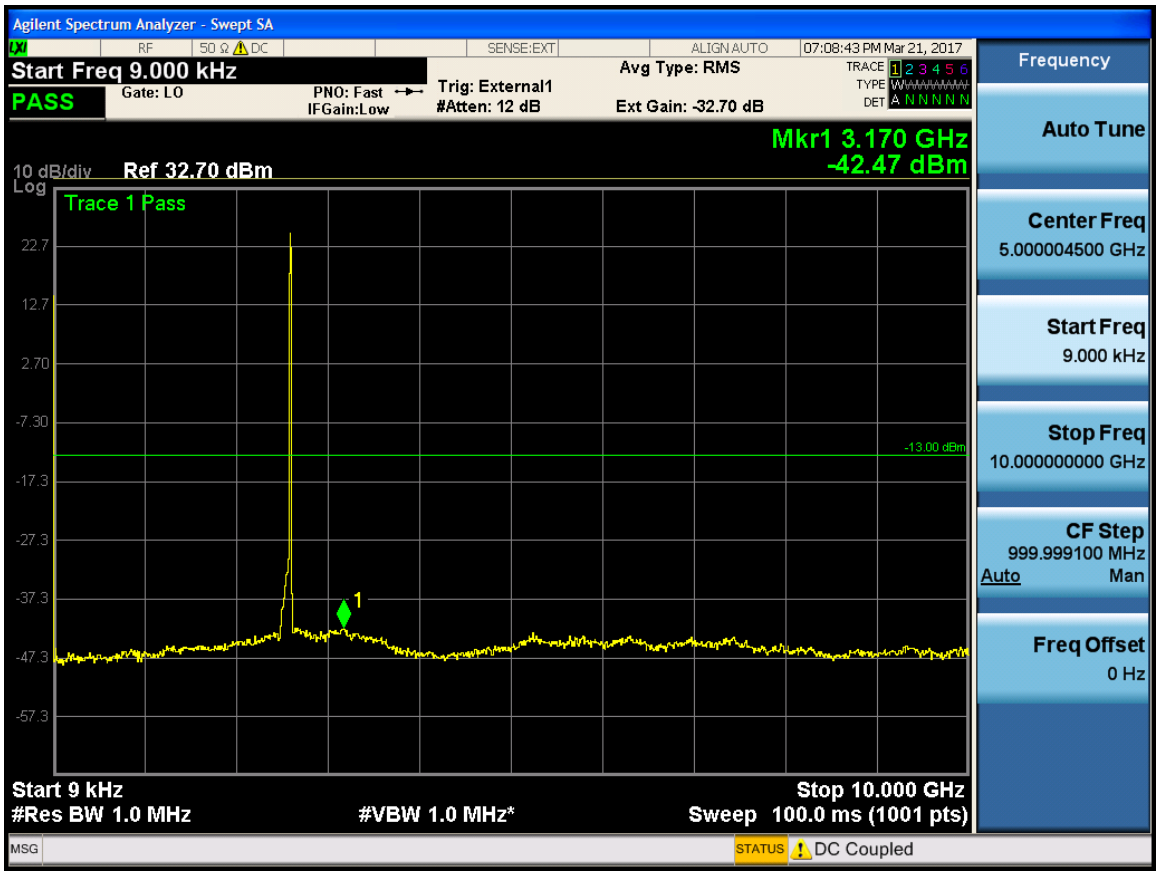

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
08:35:37 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-39.64 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz

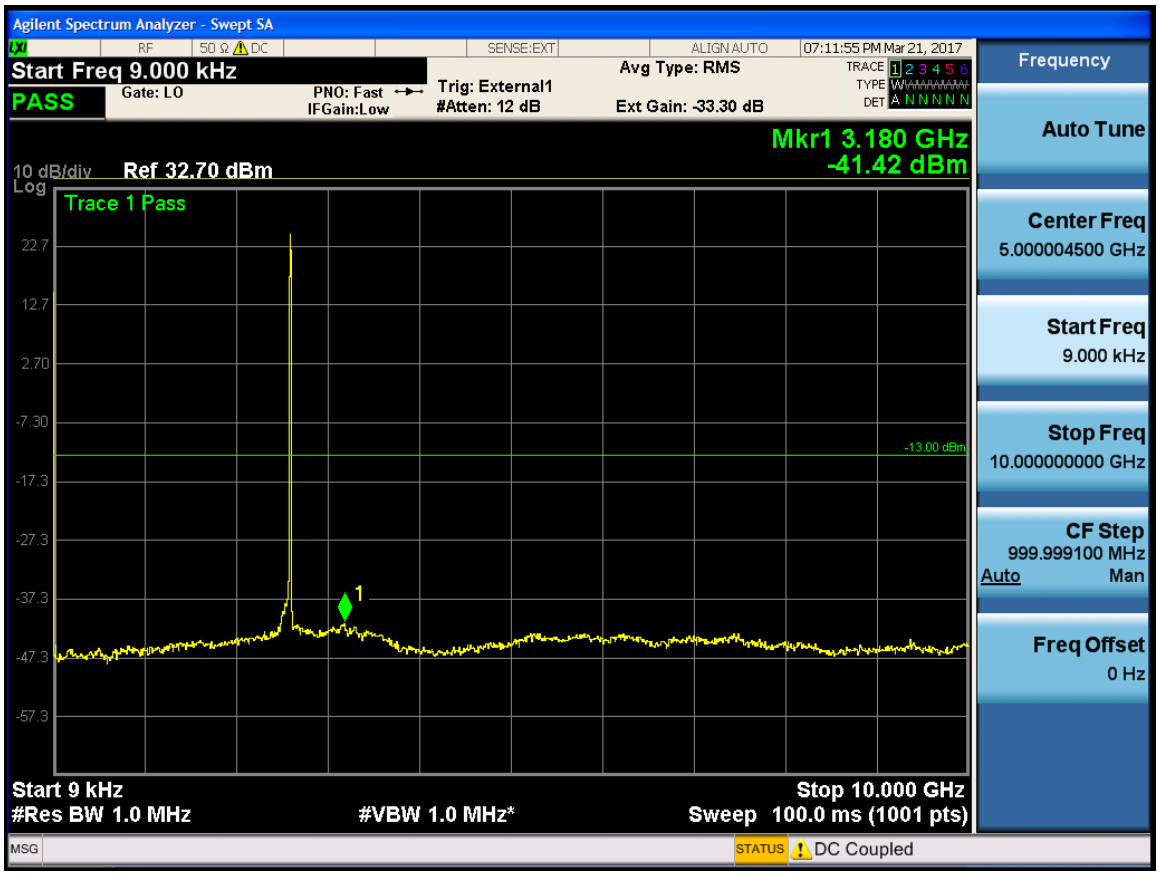

Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:38:15 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.170 GHz
-40.23 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:38:44 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.160 GHz
-39.62 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
Alignment Completed
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:20:38 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 14 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.180 GHz
-40.24 dBm
10 dB/div
Log
Ref 34.70 dBm
Trace 1 Pass
24.7
14.7
4.70
-5.30
-15.3
-25.3
-35.3
-45.3
-55.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:19:37 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 12 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 3.130 GHz
-41.83 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:08:43 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 12 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET A N N N N N
Mkr1 3.170 GHz
-42.47 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
RF
50 Ω DC
SENSE:EXT
ALIGN AUTO
07:11:55 PM Mar 21, 2017
Start Freq 9.000 kHz
PASS
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
#Atten: 12 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 3.180 GHz
-41.42 dBm
10 dB/div
Log
Ref 32.70 dBm
Trace 1 Pass
22.7
12.7
2.70
-7.30
-17.3
-27.3
-37.3
-47.3
-57.3
-13.00 dBm
1
Start 9 kHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 10.000 GHz
Sweep 100.0 ms (1001 pts)
MSG
STATUS
DC Coupled
Frequency
Auto Tune
Center Freq
5.000004500 GHz
Start Freq
9.000 kHz
Stop Freq
10.000000000 GHz
CF Step
999.999100 MHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:07:33 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.394 5 GHz
-36.14 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:07:48 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 23.629 0 GHz
-35.60 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:06:51 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.427 5 GHz
-36.22 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:07:04 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 23.629 0 GHz
-35.64 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:05:57 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.411 0 GHz
-36.28 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:06:10 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.361 5 GHz
-35.68 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:11:48 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.427 5 GHz
-36.49 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:12:01 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.741 0 GHz
-35.59 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:11:01 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.411 0 GHz
-36.17 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:11:29 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.427 5 GHz
-35.42 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:10:08 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.394 5 GHz
-36.10 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:10:39 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.411 0 GHz
-35.53 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:15:34 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 23.629 0 GHz
-36.15 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

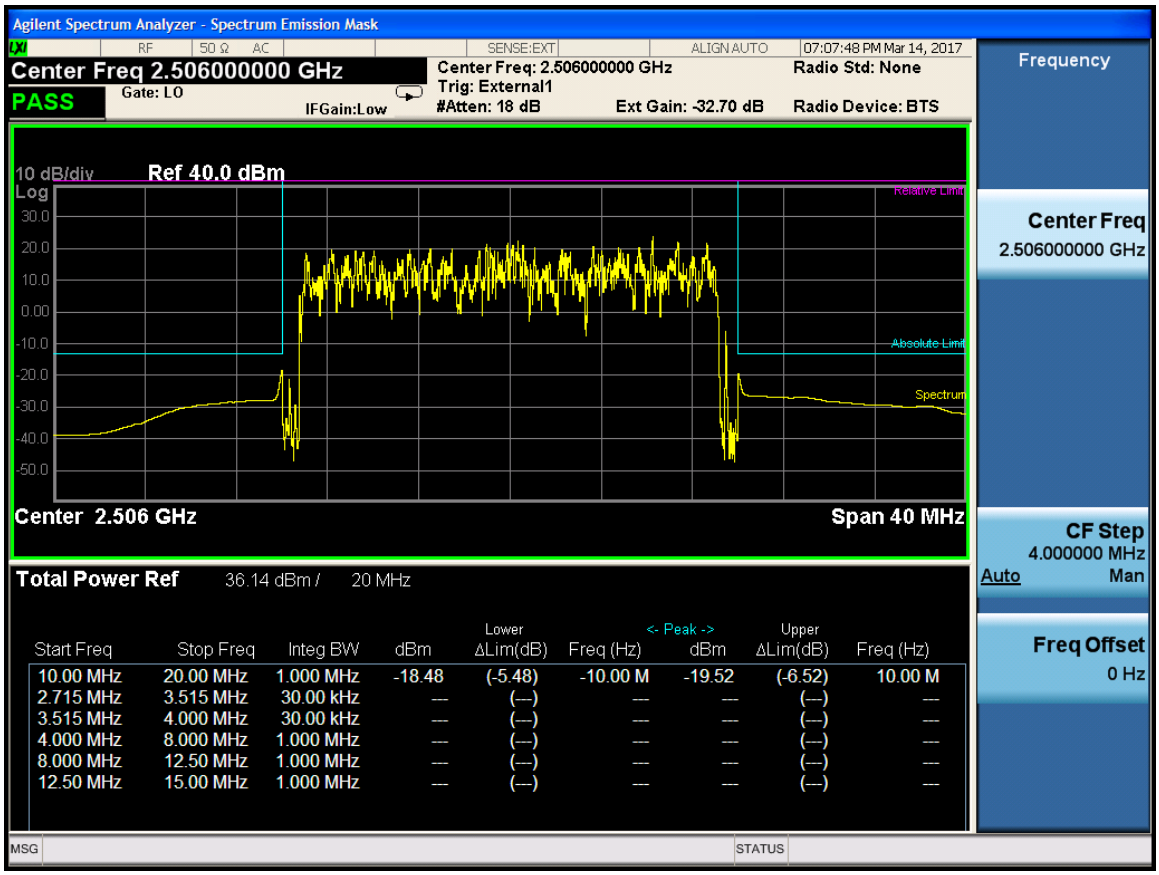

Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:15:45 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.411 0 GHz
-35.44 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

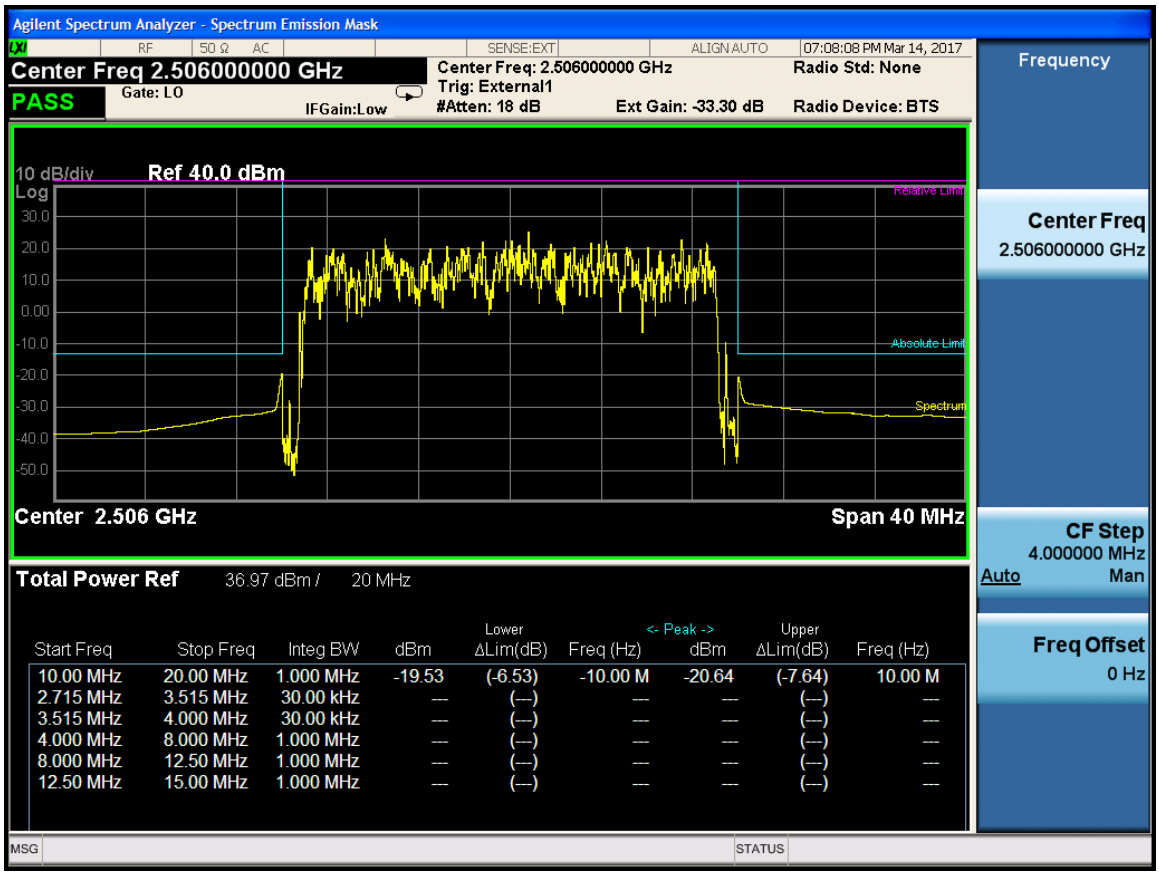

Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:15:06 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.411 0 GHz
-35.83 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

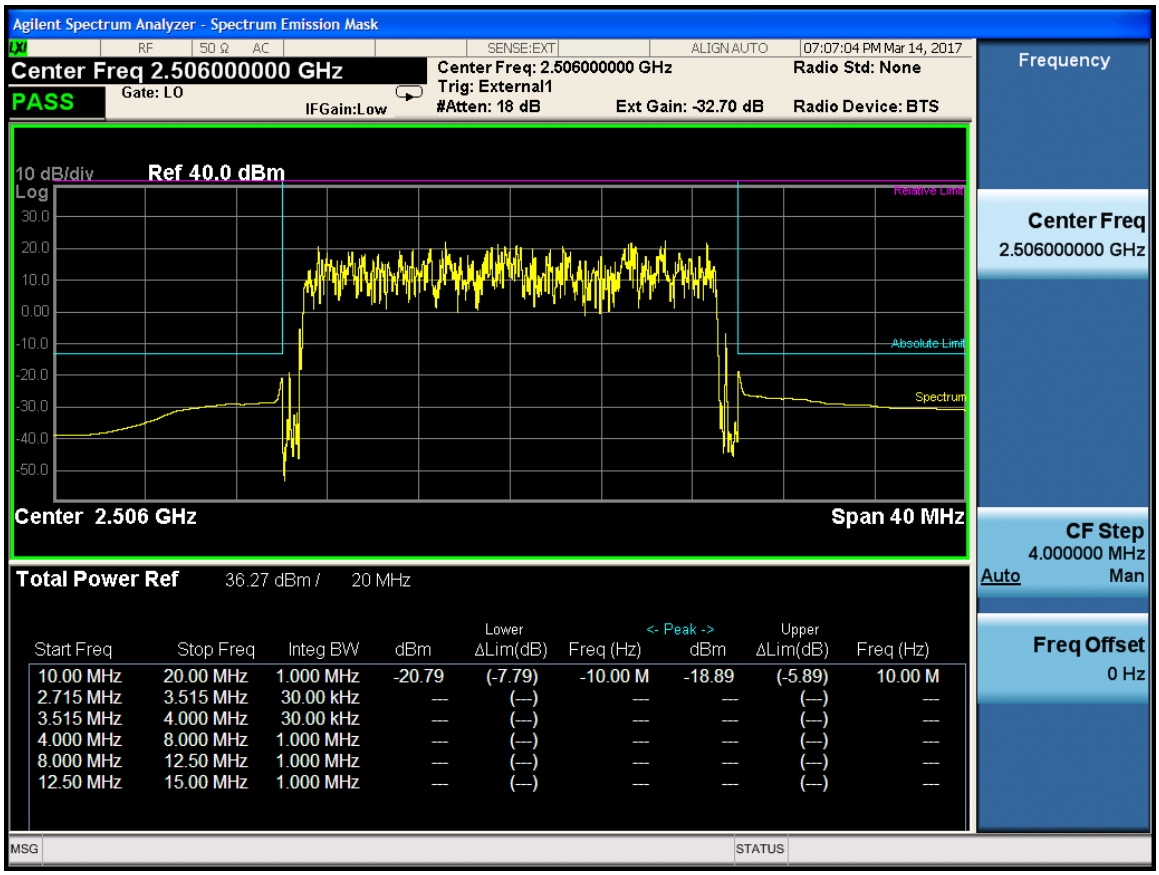

Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:15:17 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.444 0 GHz
-35.49 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

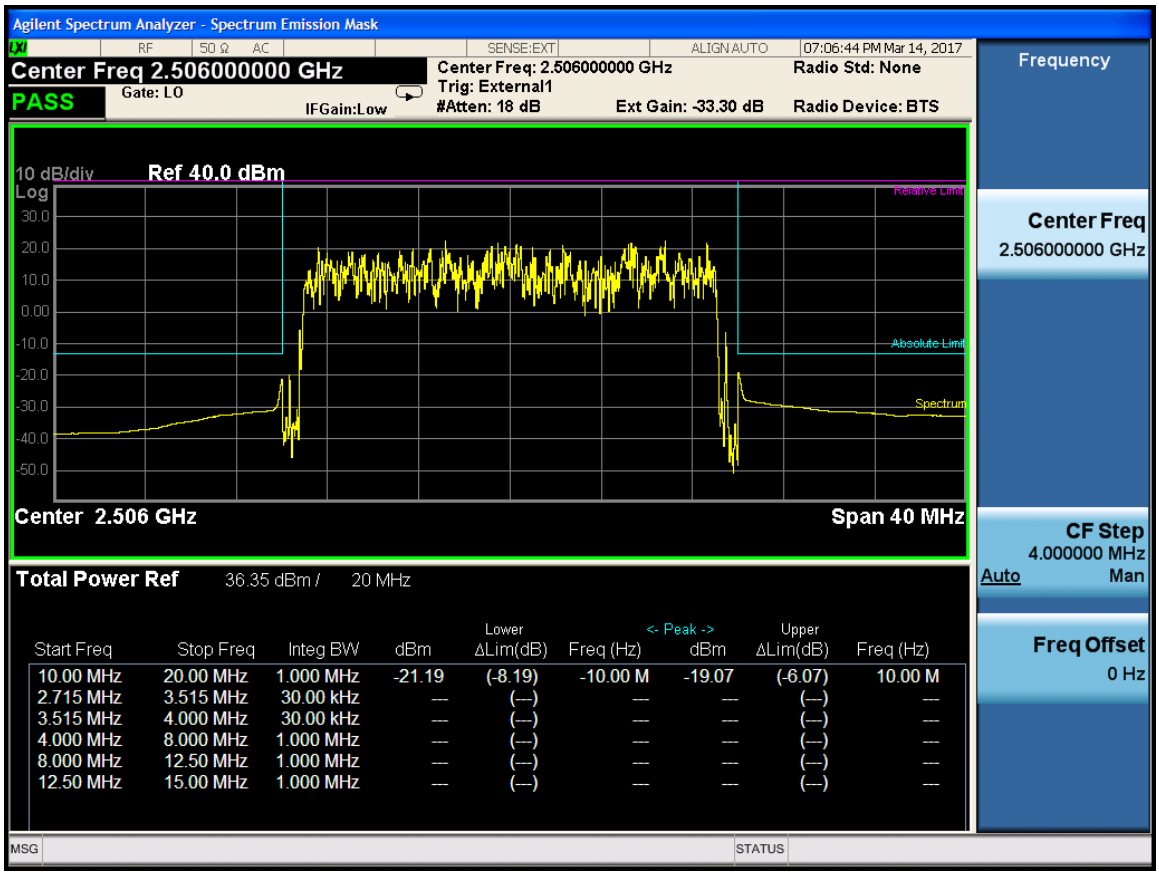

Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:14:23 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -32.70 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.741 0 GHz
-36.07 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

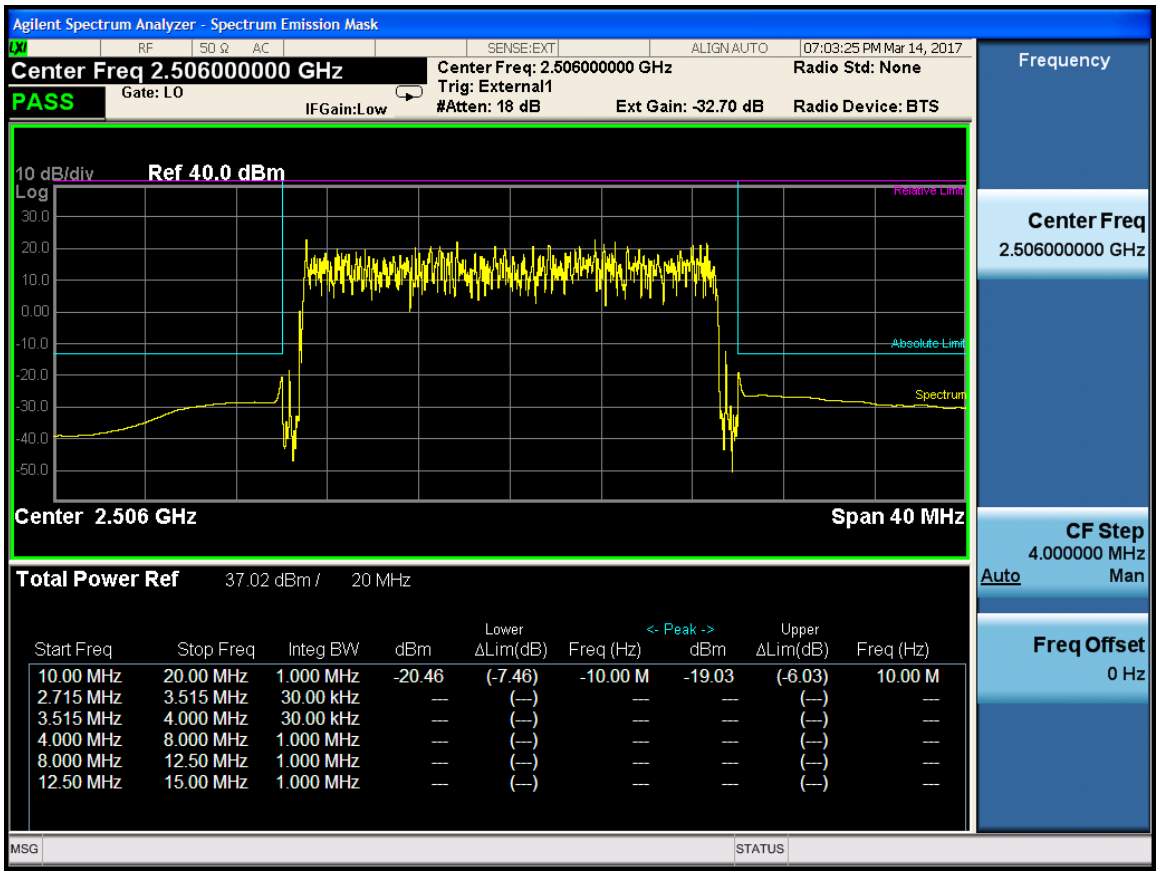

Agilent Spectrum Analyzer - Swept SA
(Prototype - Limited Sale Allowed)
RF
50 Ω AC
CORREC
SENSE:EXT
ALIGN AUTO
04:14:50 PM Apr 16, 2017
Start Freq 10.000000000 GHz
Gate: LO
PNO: Fast
IFGain:Low
Trig: External1
Atten: 8 dB
Avg Type: RMS
Ext Gain: -33.30 dB
TRACE 1 2 3 4 5 6
TYPE W
DET A N N N N N
Mkr1 25.444 0 GHz
-35.47 dBm
10 dB/div
Log
Ref 30.00 dBm
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-13.00 dBm
1
Start 10.000 GHz
#Res BW 1.0 MHz
#VBW 1.0 MHz*
Stop 26.500 GHz
Sweep 330.0 ms (1001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
18.250000000 GHz
Start Freq
10.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
1.650000000 GHz
Auto
Man
Freq Offset
0 Hz

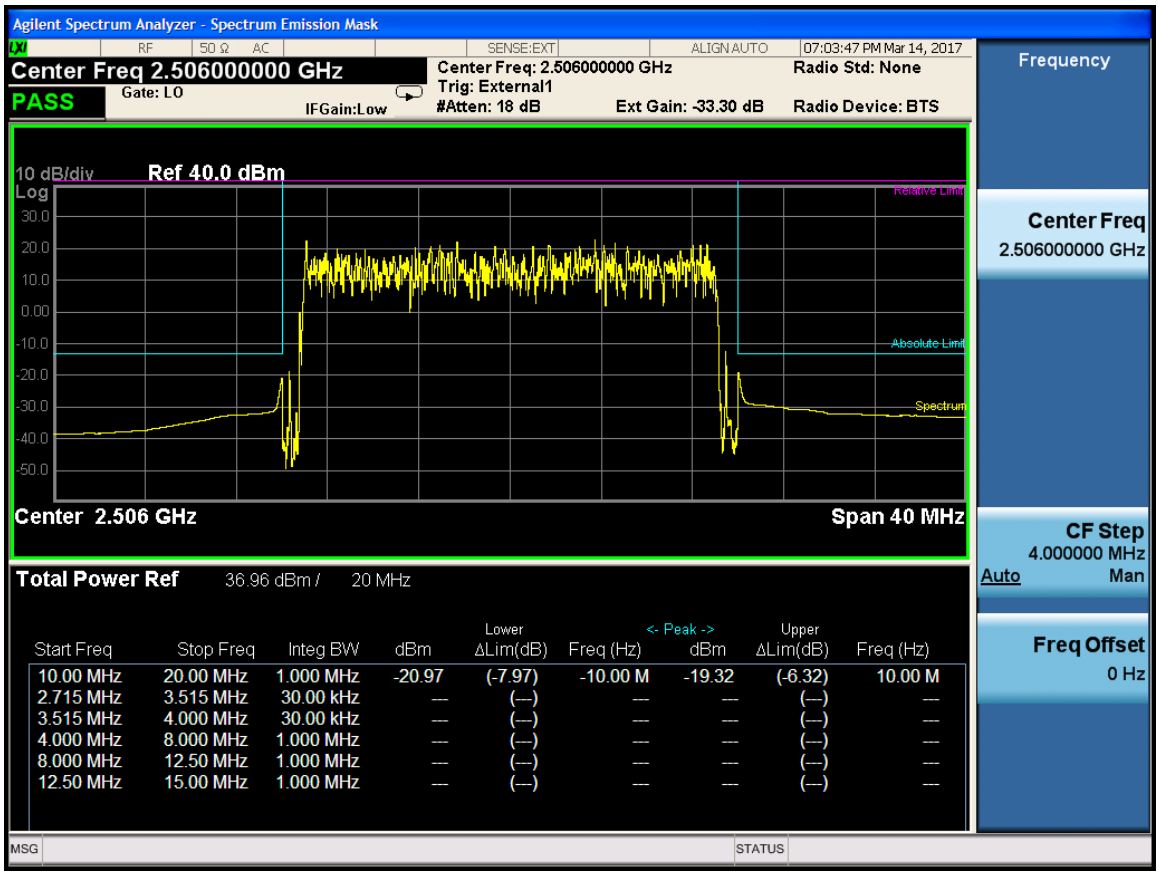

Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
07:07:48 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
36.14 dBm /
20 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
10.00 MHz 20.00 MHz 1.000 MHz -18.48 (-5.48) -10.00 M -19.52 (-6.52) 10.00 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
07:08:08 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
36.97 dBm /
20 MHz
Start Freq
Stop Freq
Integ BW
dBm
Lower ΔLim(dB)
Freq (Hz)
<- Peak ->
dBm
Upper ΔLim(dB)
Freq (Hz)
10.00 MHz 20.00 MHz 1.000 MHz -19.53 (-6.53) -10.00 M -20.64 (-7.64) 10.00 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
07:07:04 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
36.27 dBm /
20 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
10.00 MHz 20.00 MHz 1.000 MHz -20.79 (-7.79) -10.00 M -18.89 (-5.89) 10.00 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
07:06:44 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref 36.35 dBm / 20 MHz
Start Freq | Stop Freq | Integ BW | dBm | Lower ΔLim(dB) | Lower Freq (Hz) | <- Peak -> dBm | Upper ΔLim(dB) | Upper Freq (Hz)
10.00 MHz | 20.00 MHz | 1.000 MHz | -21.19 | (-8.19) | -10.00 M | -19.07 | (-6.07) | 10.00 M
2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | ---
4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | ---
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF 50 Ω AC
SENSE:EXT
ALIGN AUTO
07:03:25 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -32.70 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
37.02 dBm /
20 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
10.00 MHz 20.00 MHz 1.000 MHz -20.46 (-7.46) -10.00 M -19.03 (-6.03) 10.00 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
STATUS


Agilent Spectrum Analyzer - Spectrum Emission Mask
RF
50 Ω AC
SENSE:EXT
ALIGN AUTO
07:03:47 PM Mar 14, 2017
Center Freq 2.506000000 GHz
PASS
Gate: LO
IFGain:Low
Center Freq: 2.506000000 GHz
Trig: External1
#Atten: 18 dB
Ext Gain: -33.30 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 40.0 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Relative Limit
Absolute Limit
Spectrum
Center 2.506 GHz
Span 40 MHz
Center Freq
2.506000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Total Power Ref
36.96 dBm /
20 MHz
Lower
<- Peak ->
Upper
Start Freq
Stop Freq
Integ BW
dBm
ΔLim(dB)
Freq (Hz)
dBm
ΔLim(dB)
Freq (Hz)
10.00 MHz 20.00 MHz 1.000 MHz -20.97 (-7.97) -10.00 M -19.32 (-6.32) 10.00 M
2.715 MHz 3.515 MHz 30.00 kHz --- (---) --- --- (---) ---
3.515 MHz 4.000 MHz 30.00 kHz --- (---) --- --- (---) ---
4.000 MHz 8.000 MHz 1.000 MHz --- (---) --- --- (---) ---
8.000 MHz 12.50 MHz 1.000 MHz --- (---) --- --- (---) ---
12.50 MHz 15.00 MHz 1.000 MHz --- (---) --- --- (---) ---
MSG
STATUS