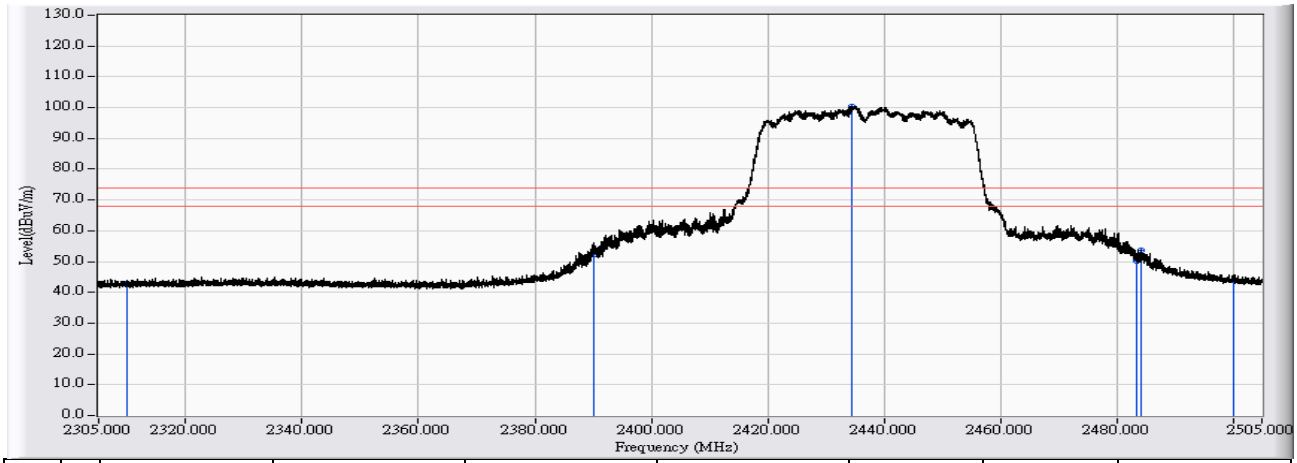
Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_PK	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2437MHz**

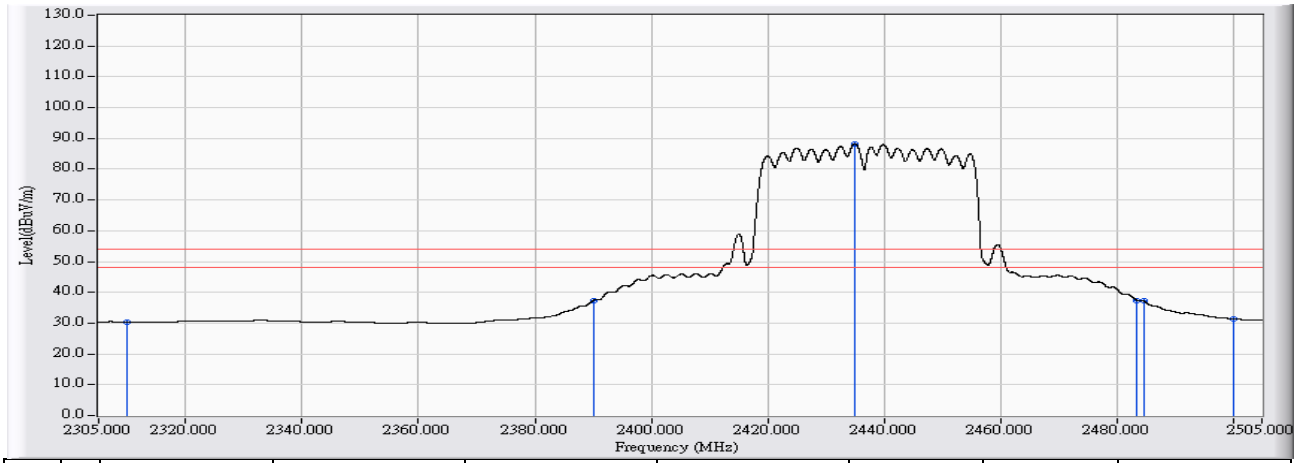


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	31.782	42.797	-31.203	74.000	PEAK
2		2390.000	11.544	40.898	52.442	-21.558	74.000	PEAK
3	*	2434.507	11.843	88.632	100.475	26.475	74.000	PEAK
4		2483.500	12.172	38.068	50.240	-23.760	74.000	PEAK
5		2484.122	12.176	41.457	53.633	-20.367	74.000	PEAK
6		2500.000	12.274	31.744	44.019	-29.981	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_AV	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2437MHz**

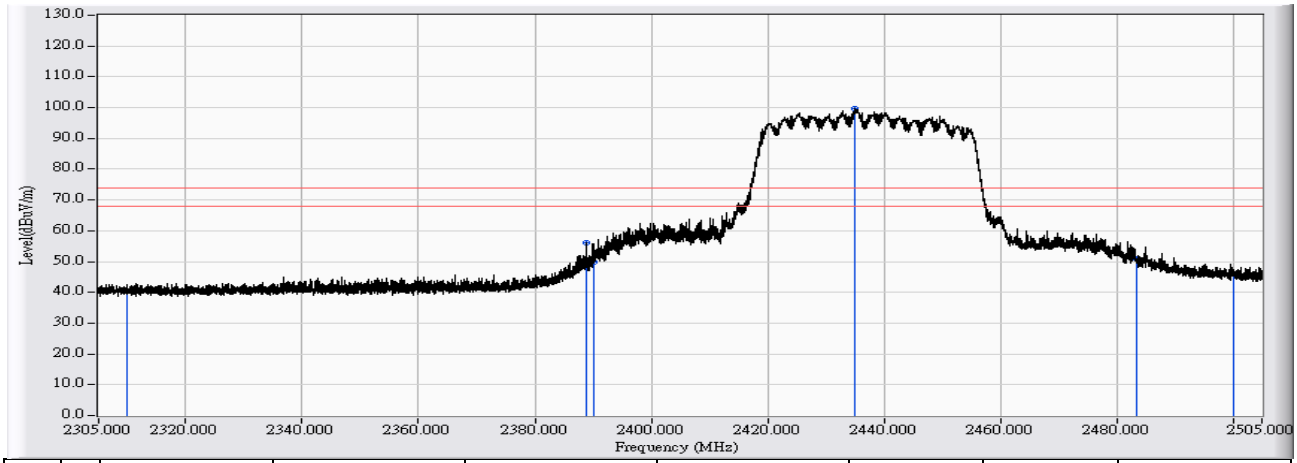


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	19.338	30.353	-23.647	54.000	AVERAGE
2		2390.000	11.544	25.838	37.382	-16.618	54.000	AVERAGE
3	*	2435.007	11.847	76.498	88.344	34.344	54.000	AVERAGE
4		2483.500	12.172	25.195	37.367	-16.633	54.000	AVERAGE
5		2484.622	12.180	25.000	37.180	-16.820	54.000	AVERAGE
6		2500.000	12.274	19.165	31.440	-22.560	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_PK	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2437MHz**

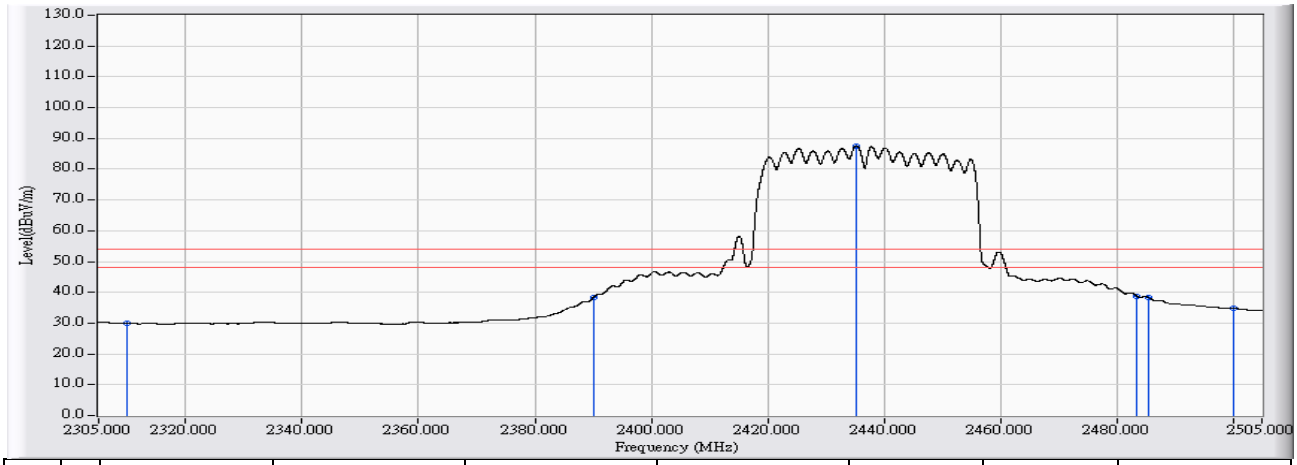


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	29.440	40.455	-33.545	74.000	PEAK
2		2388.752	11.536	44.615	56.151	-17.849	74.000	PEAK
3		2390.000	11.544	38.324	49.868	-24.132	74.000	PEAK
4	*	2434.927	11.846	87.695	99.541	25.541	74.000	PEAK
5		2483.500	12.172	38.756	50.928	-23.072	74.000	PEAK
6		2500.000	12.274	33.654	45.929	-28.071	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_AV	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2437MHz**

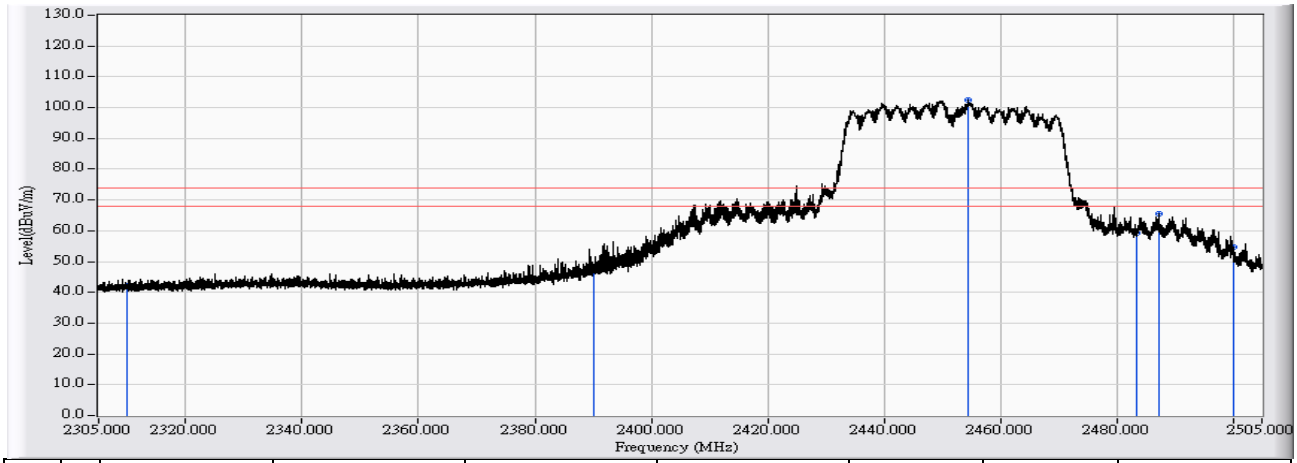


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	18.877	29.892	-24.108	54.000	AVERAGE
2		2390.000	11.544	26.748	38.292	-15.708	54.000	AVERAGE
3	*	2435.307	11.848	75.784	87.632	33.632	54.000	AVERAGE
4		2483.500	12.172	26.581	38.753	-15.247	54.000	AVERAGE
5		2485.402	12.185	26.233	38.418	-15.582	54.000	AVERAGE
6		2500.000	12.274	22.564	34.839	-19.161	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_PK	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2452MHz**

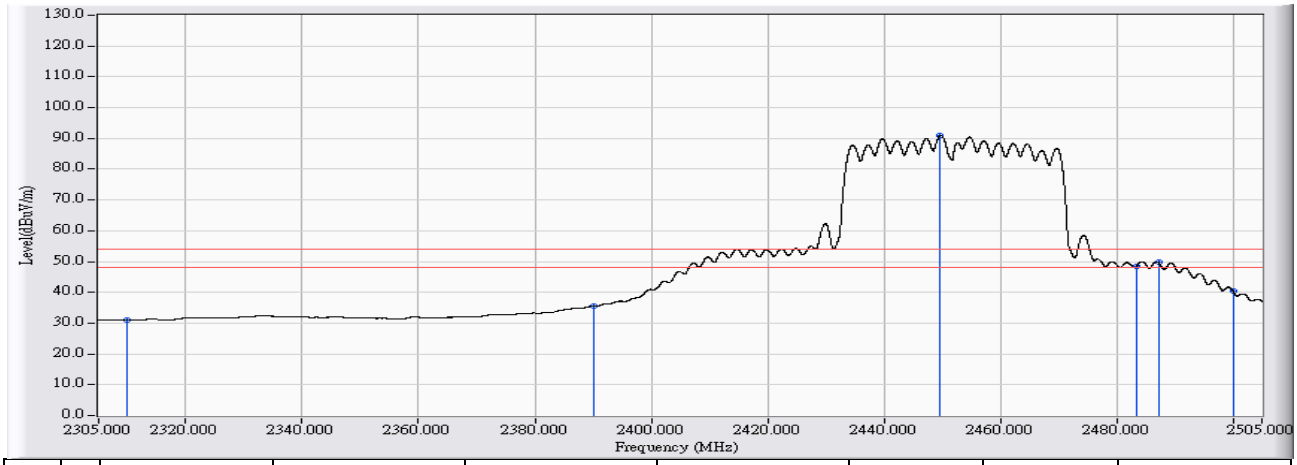


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	31.011	42.026	-31.974	74.000	PEAK
2		2390.000	11.544	36.664	48.208	-25.792	74.000	PEAK
3	*	2454.445	11.977	90.475	102.452	28.452	74.000	PEAK
4		2483.500	12.172	47.119	59.291	-14.709	74.000	PEAK
5		2487.242	12.197	53.186	65.383	-8.617	74.000	PEAK
6		2500.000	12.274	42.371	54.646	-19.354	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_AV	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2452MHz**

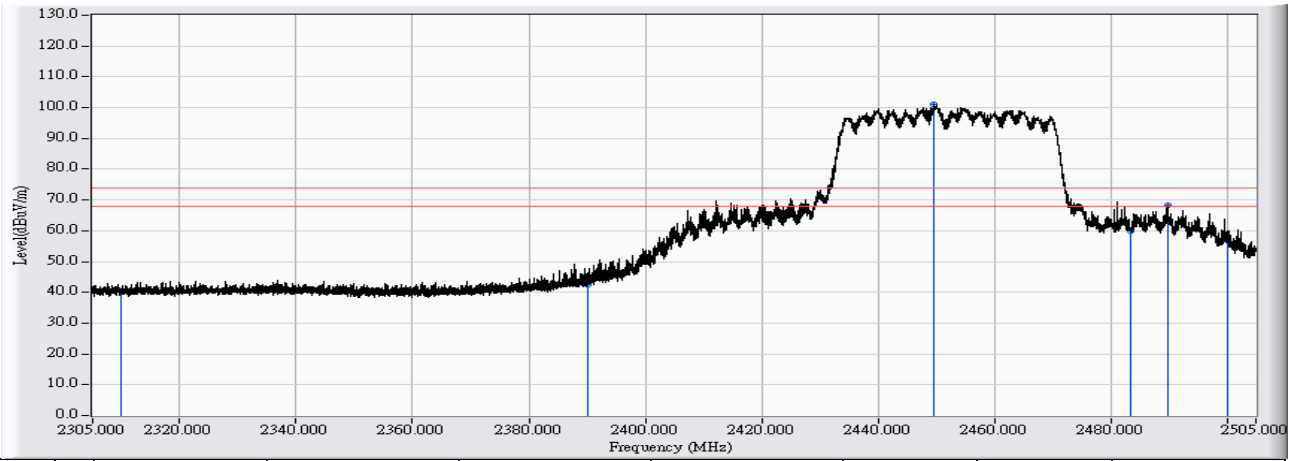


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	20.092	31.107	-22.893	54.000	AVERAGE
2		2390.000	11.544	23.905	35.449	-18.551	54.000	AVERAGE
3	*	2449.725	11.945	78.981	90.926	36.926	54.000	AVERAGE
4		2483.500	12.172	36.392	48.564	-5.436	54.000	AVERAGE
5		2487.182	12.197	37.488	49.685	-4.315	54.000	AVERAGE
6		2500.000	12.274	28.217	40.492	-13.508	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_PK	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2452MHz**

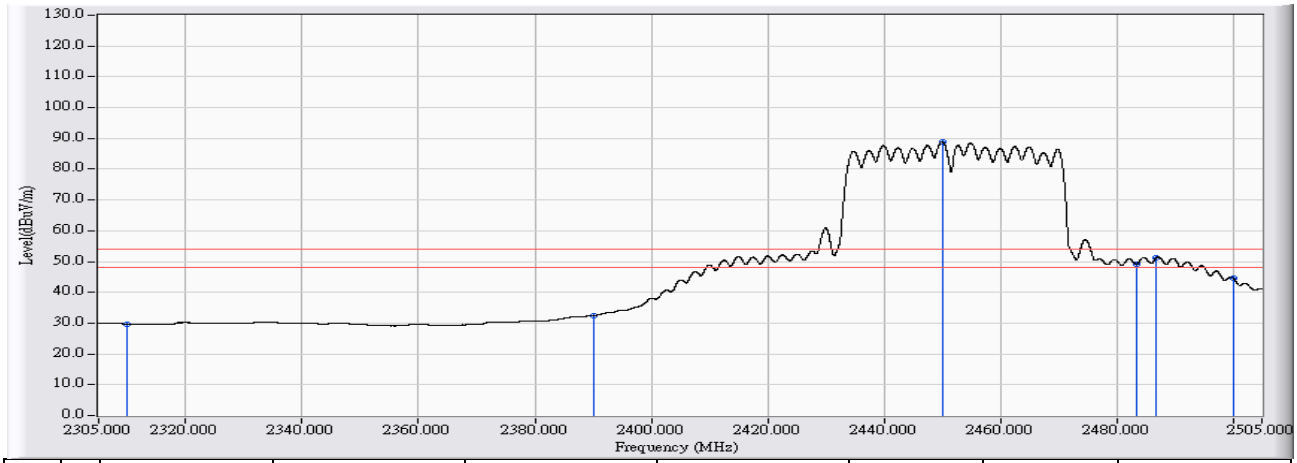


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	29.571	40.586	-33.414	74.000	PEAK
2		2390.000	11.544	31.020	42.564	-31.436	74.000	PEAK
3	*	2449.525	11.944	89.169	101.113	27.113	74.000	PEAK
4		2483.500	12.172	47.801	59.973	-14.027	74.000	PEAK
5		2489.801	12.214	56.011	68.225	-5.775	74.000	PEAK
6		2500.000	12.274	44.529	56.804	-17.196	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Site : CB4-H	**Time : 2017/08/07**
Limit : FCC_SpartC_15.247_03M_AV	**Margin : 6**
Probe : CB4_FCC_EFS_B091_1-18GHz_3M_0117 - VERTICAL	**Power : AC 120V/60Hz**
EUT : UHD751-P	**Note : Mode 2: Tx_MIMO Mode_ 802.11n(40M)_2452MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2310.000	11.014	18.674	29.689	-24.311	54.000	AVERAGE
2		2390.000	11.544	20.969	32.513	-21.487	54.000	AVERAGE
3	*	2450.025	11.948	77.051	88.998	34.998	54.000	AVERAGE
4		2483.500	12.172	36.929	49.101	-4.899	54.000	AVERAGE
5		2486.862	12.194	38.999	51.193	-2.807	54.000	AVERAGE
6		2500.000	12.274	32.487	44.762	-9.238	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. DTS Bandwidth

7.1. Test Equipment

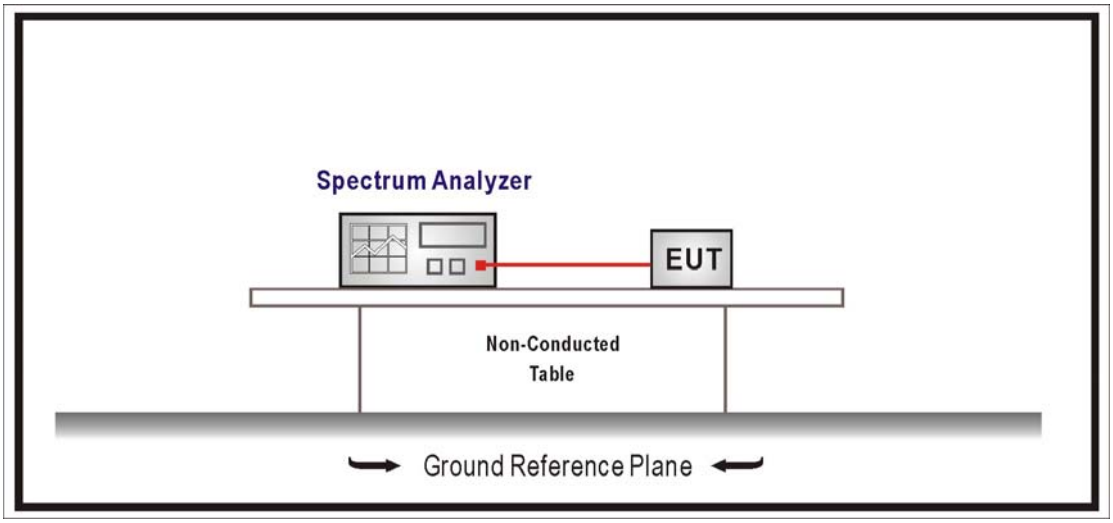
The following test equipments are used during the test:

DTS Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested procedure section 8.1 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the VBW≧3xRBW, Sweep Time=Auto, Set Peak Detector.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

7.6. Uncertainty

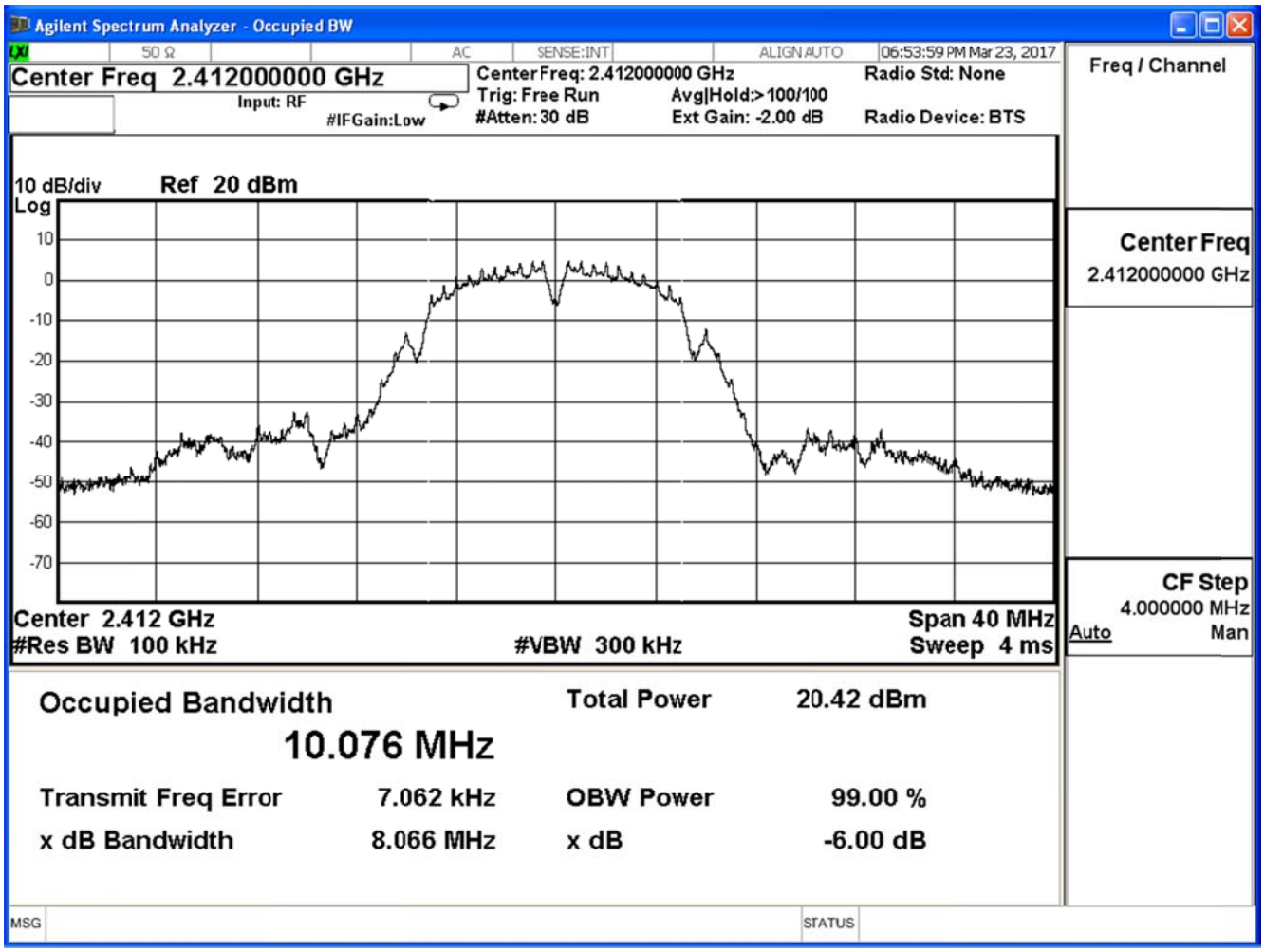
The measurement uncertainty is defined as ±150Hz

7.7. Test Result

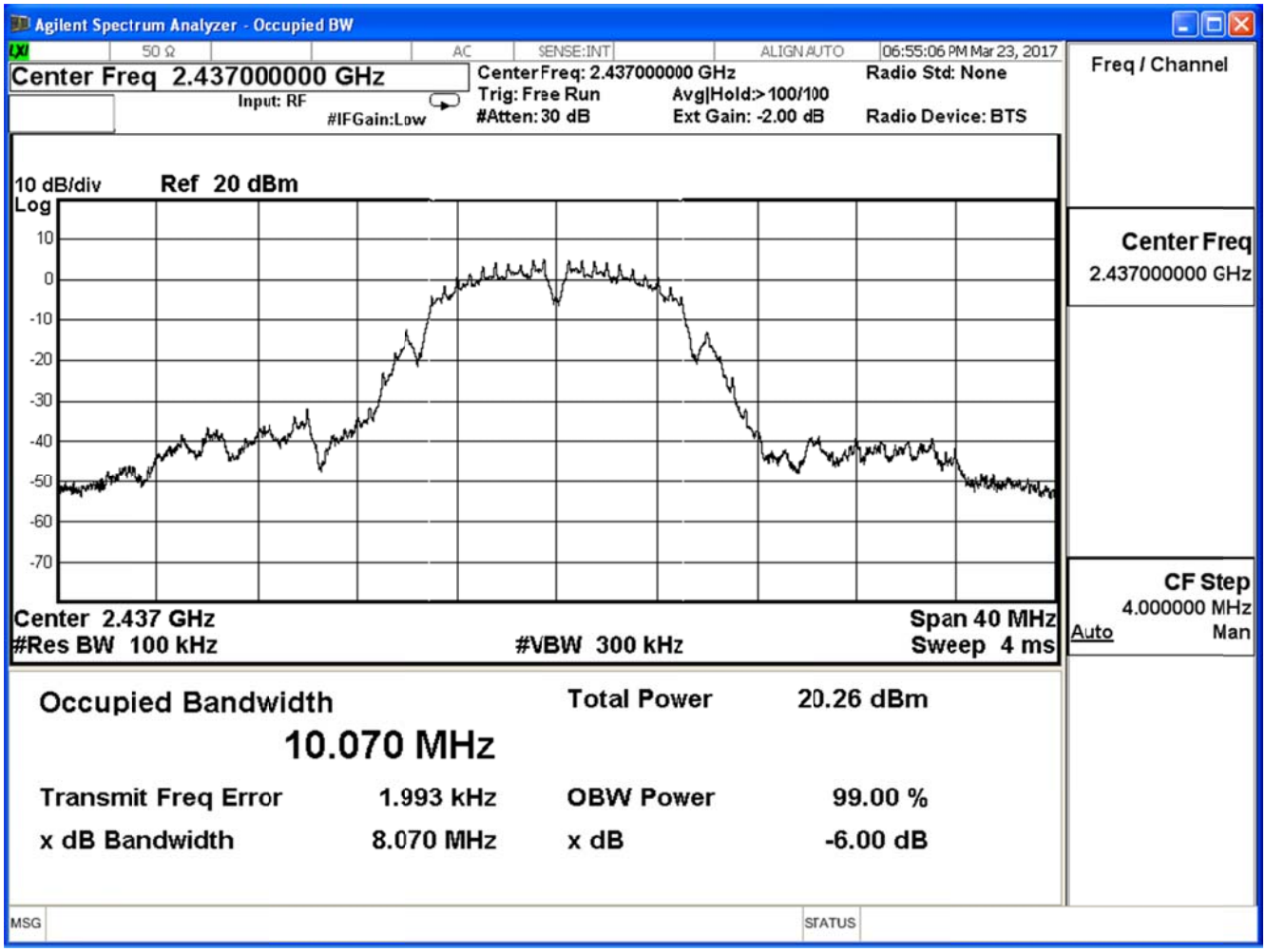
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	8.066	≧0.5	Pass
6	2437	8.070	≧0.5	Pass
11	2462	8.079	≧0.5	Pass

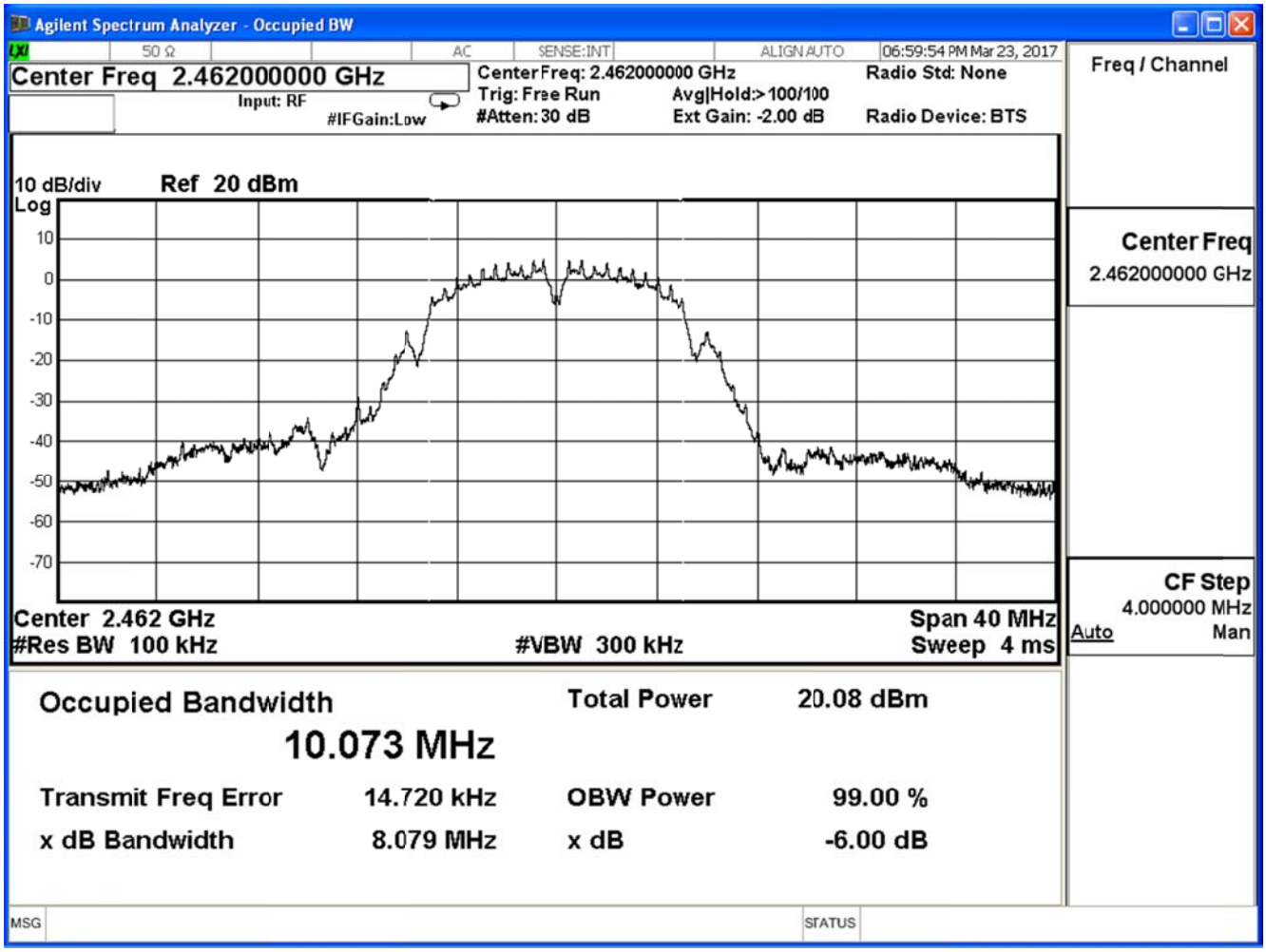
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:55:06 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.070 MHz
Total Power
20.26 dBm
Transmit Freq Error
1.993 kHz
OBW Power
99.00 %
x dB Bandwidth
8.070 MHz
x dB
-6.00 dB
MSG
STATUS

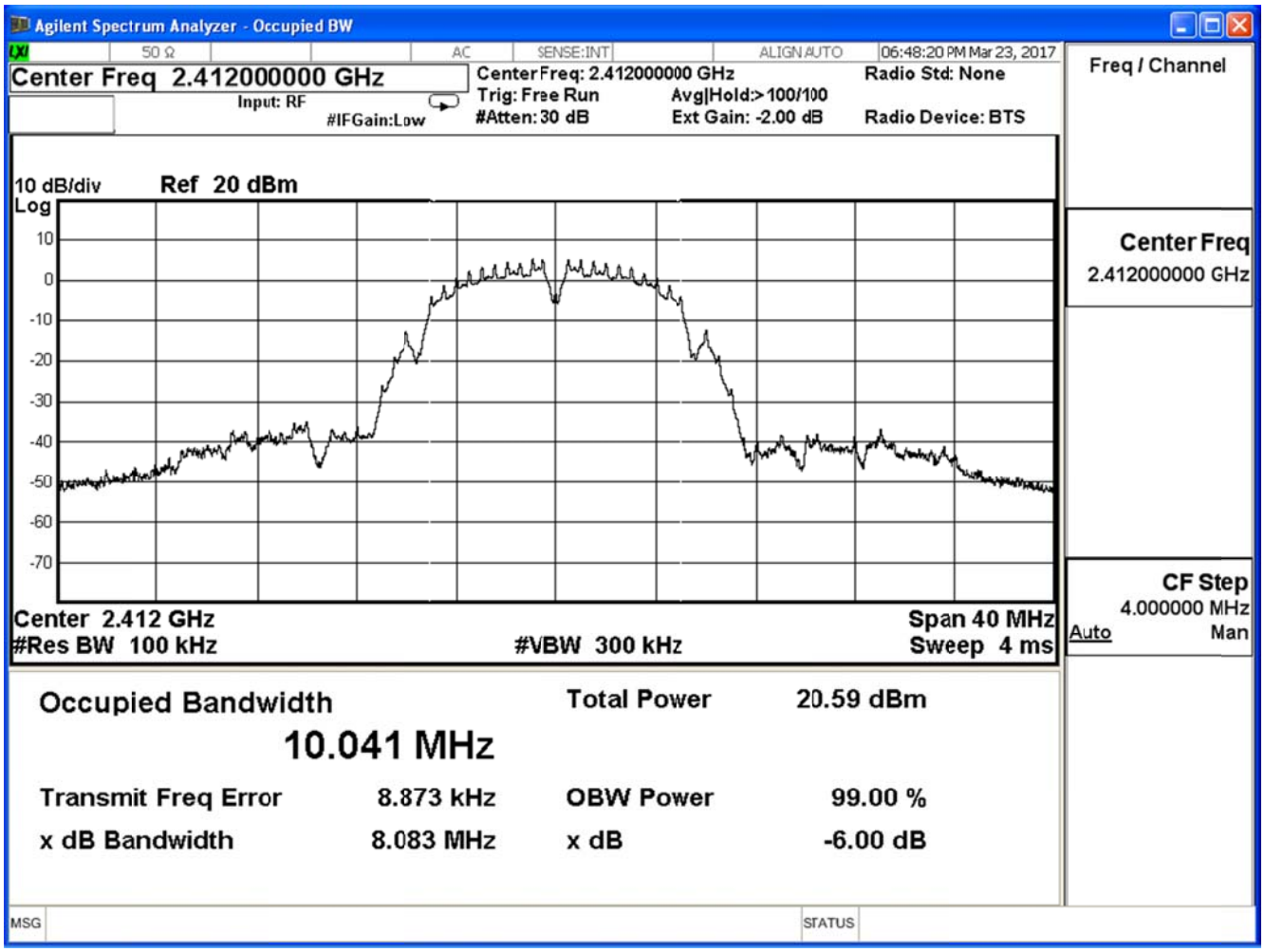
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:59:54 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.073 MHz
Total Power
20.08 dBm
Transmit Freq Error
14.720 kHz
OBW Power
99.00 %
x dB Bandwidth
8.079 MHz
x dB
-6.00 dB
MSG
STATUS

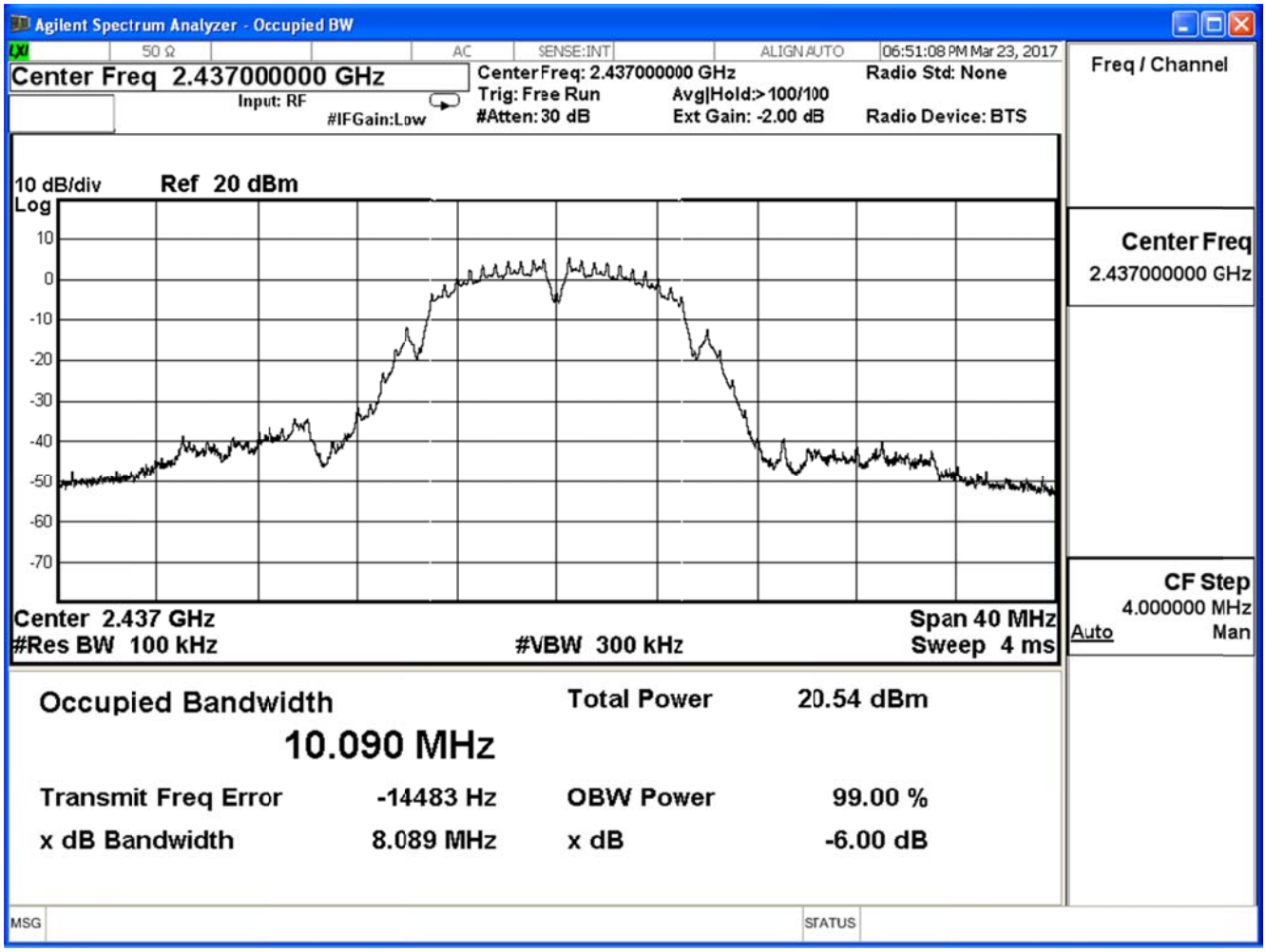
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	8.083	≧0.5	Pass
6	2437	8.089	≧0.5	Pass
11	2462	8.081	≧0.5	Pass

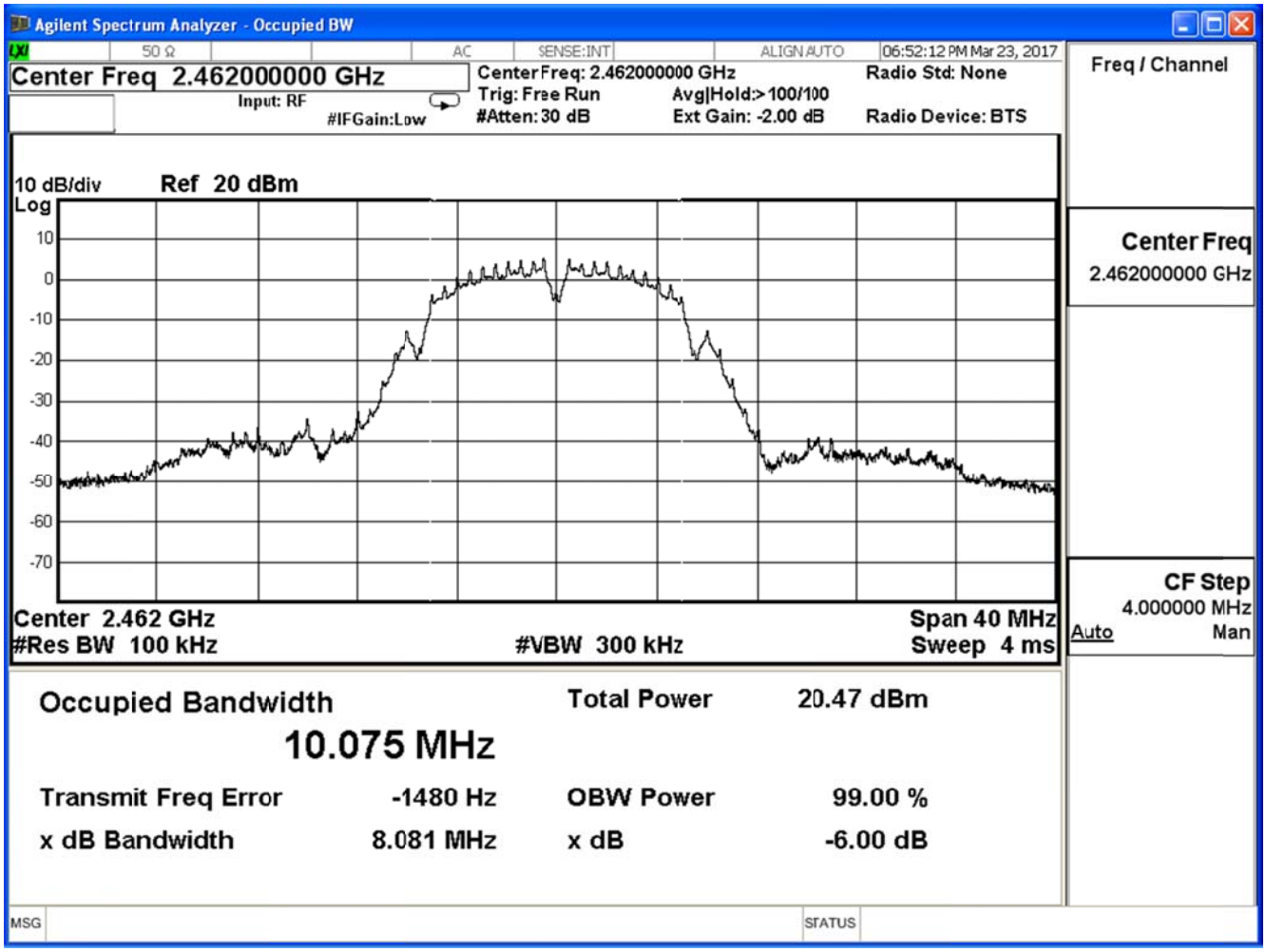
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:51:08 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.090 MHz
Total Power
20.54 dBm
Transmit Freq Error
-14483 Hz
OBW Power
99.00 %
x dB Bandwidth
8.089 MHz
x dB
-6.00 dB
MSG
STATUS

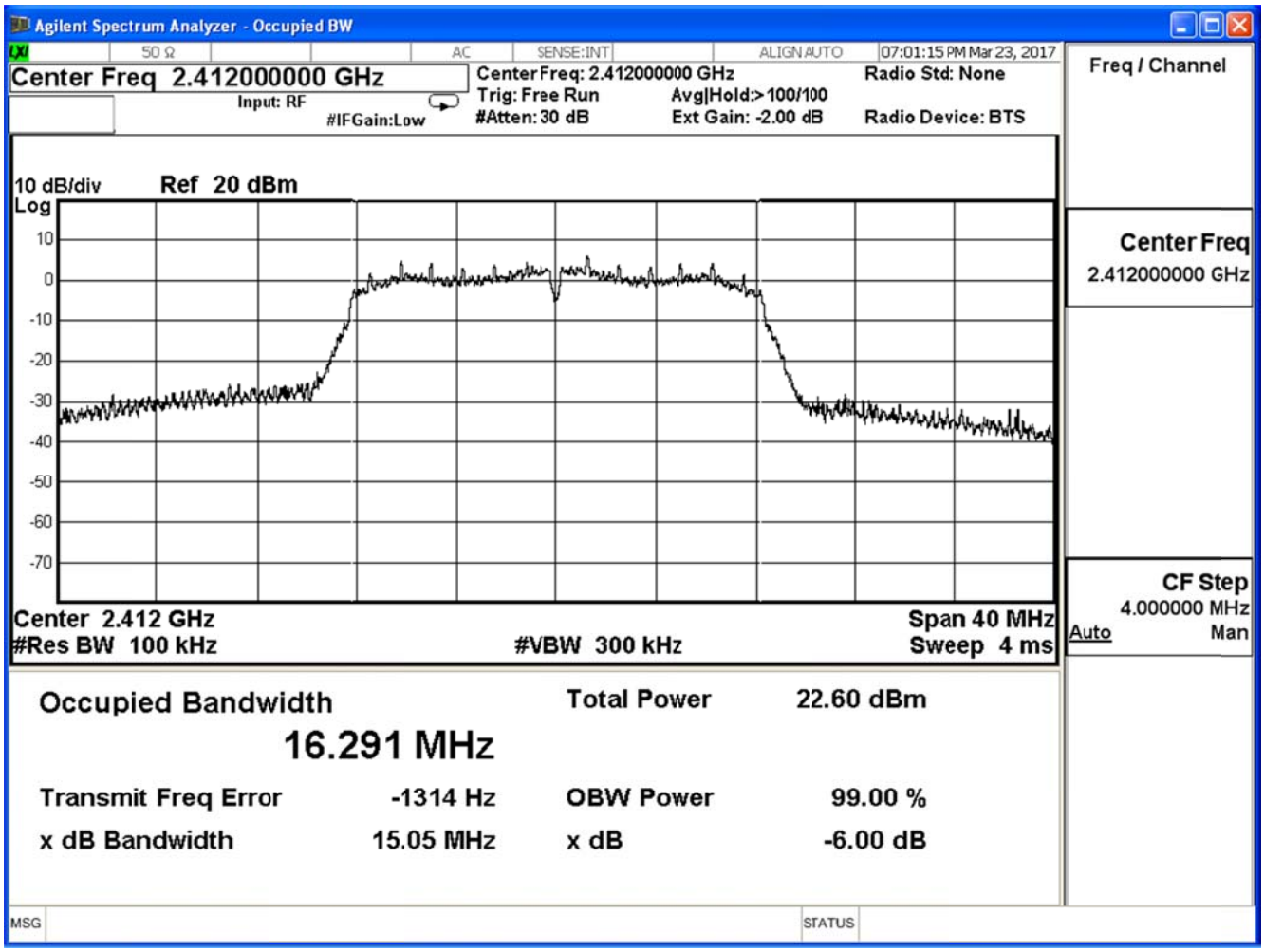
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:52:12 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.075 MHz
Total Power
20.47 dBm
Transmit Freq Error
-1480 Hz
OBW Power
99.00 %
x dB Bandwidth
8.081 MHz
x dB
-6.00 dB
MSG
STATUS

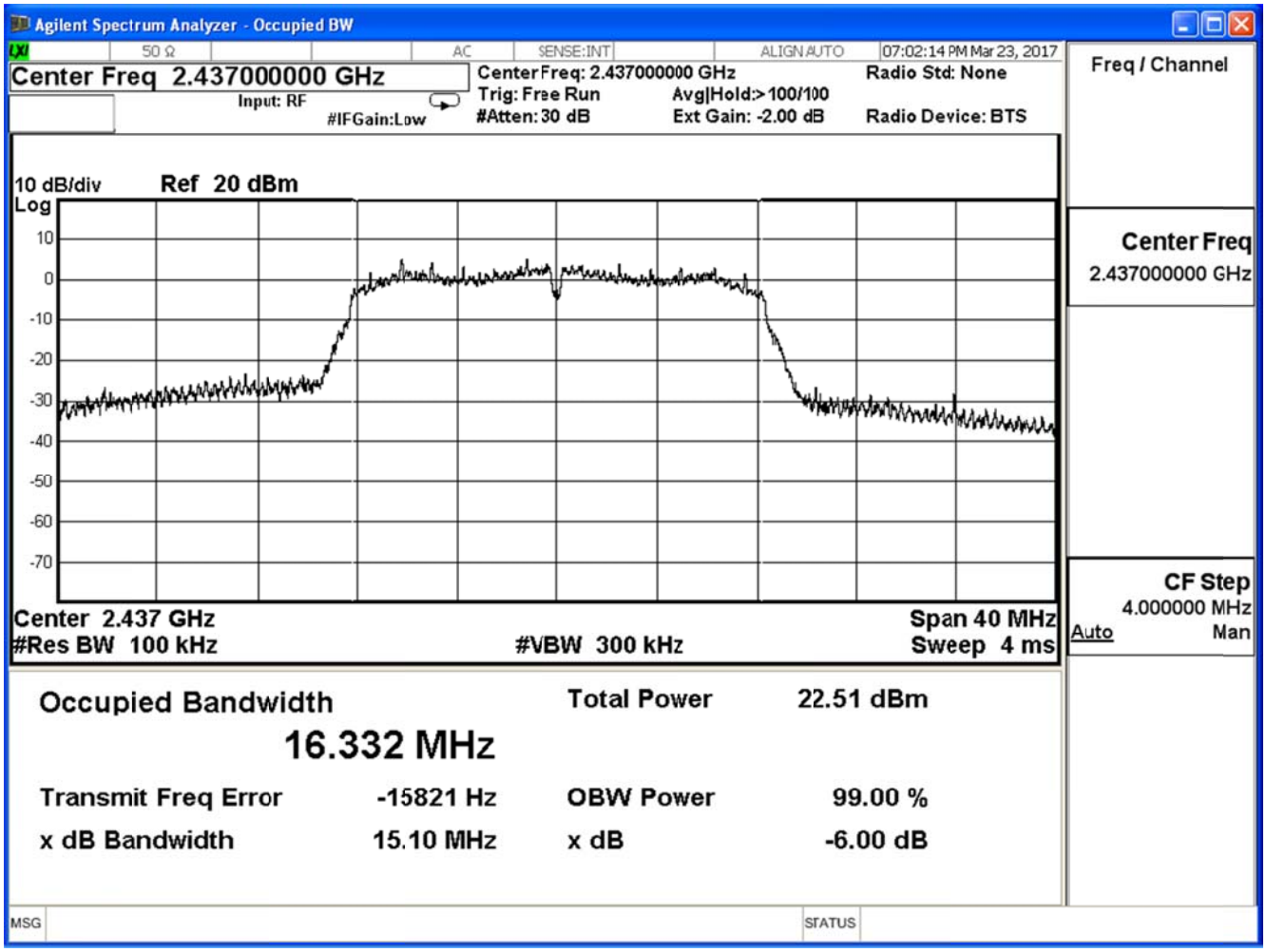
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.050	≧0.5	Pass
6	2437	15.100	≧0.5	Pass
11	2462	15.070	≧0.5	Pass

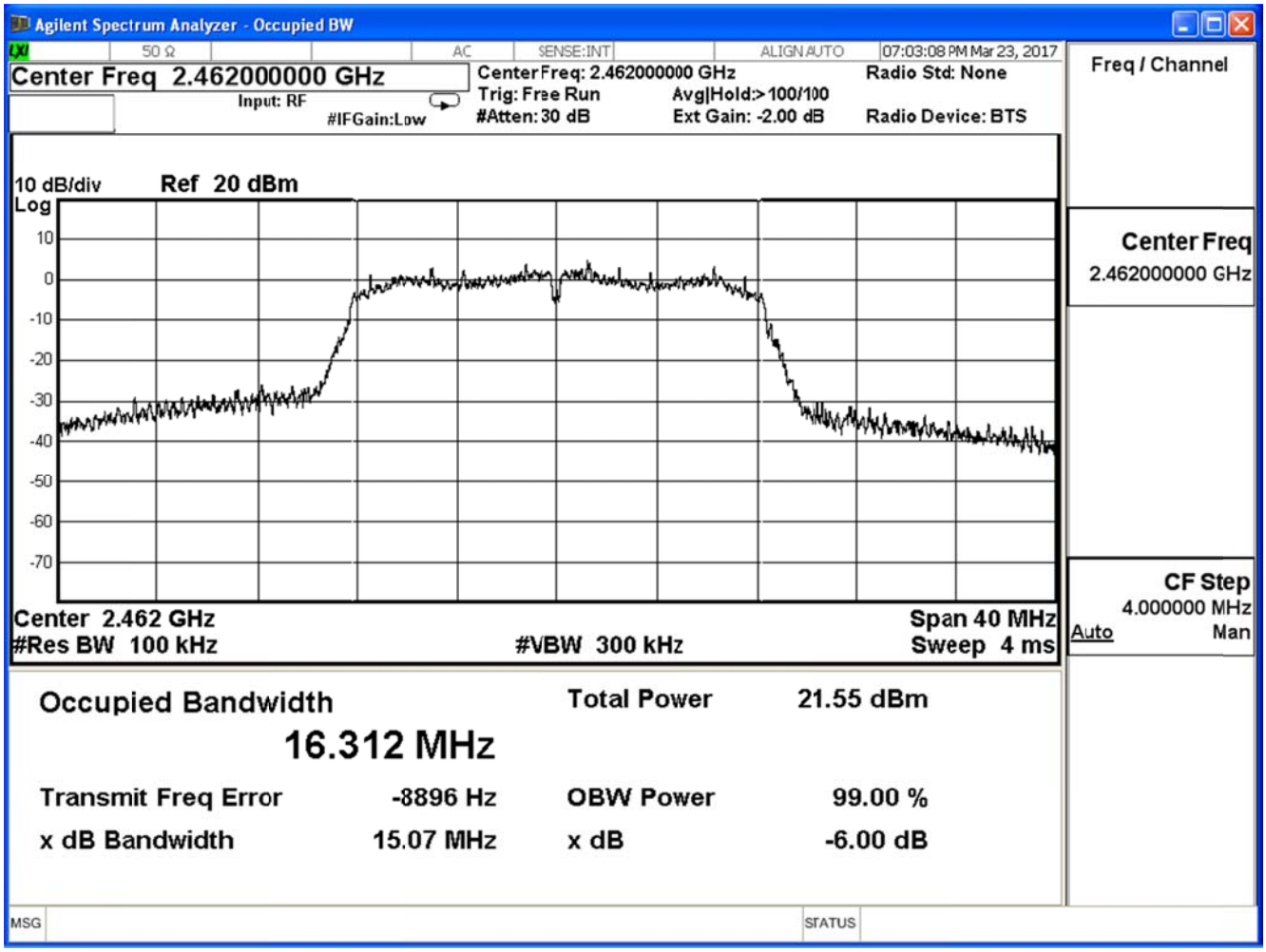
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:02:14 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.332 MHz
Total Power
22.51 dBm
Transmit Freq Error
-15821 Hz
OBW Power
99.00 %
x dB Bandwidth
15.10 MHz
x dB
-6.00 dB
MSG
STATUS

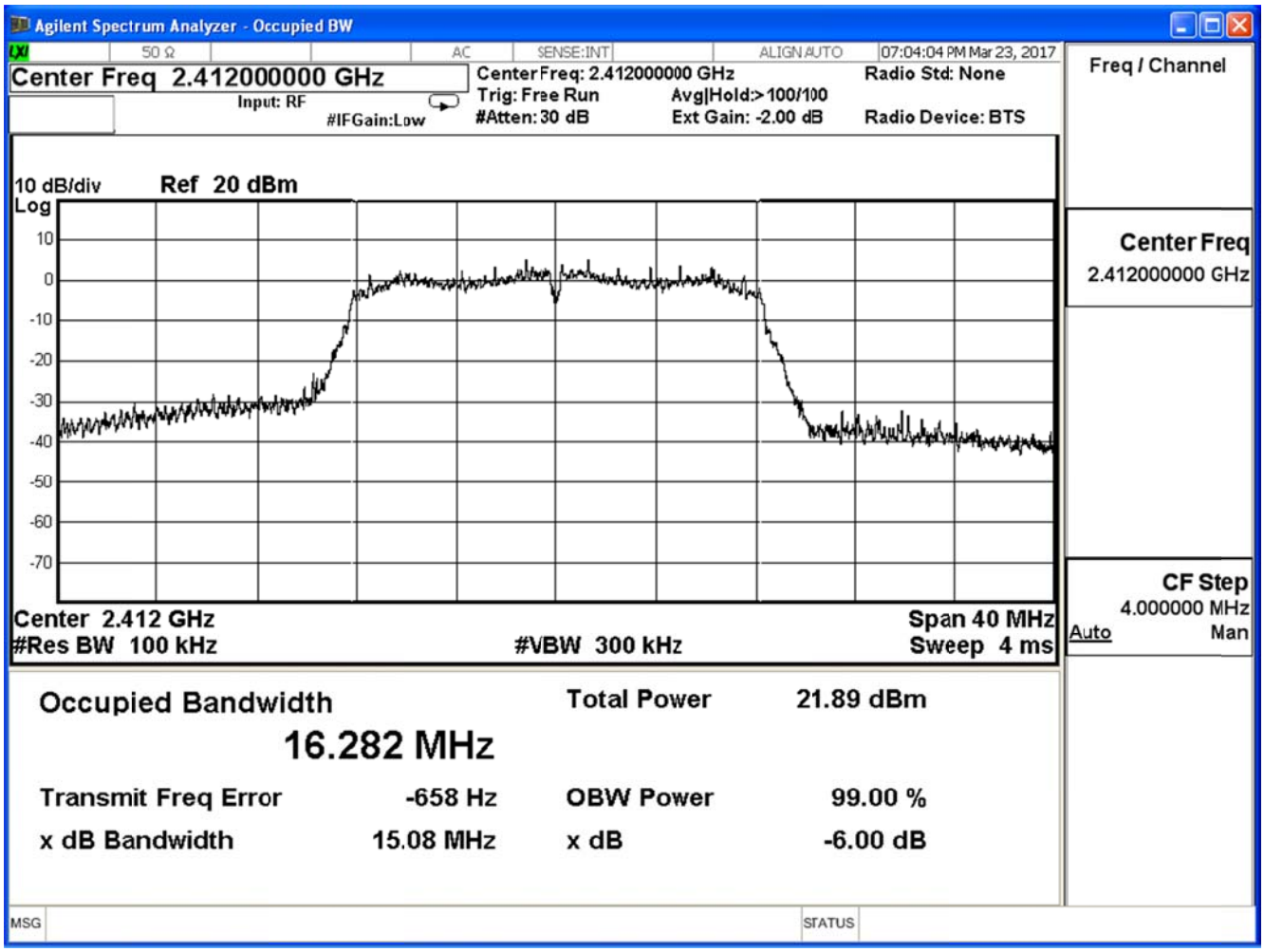
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:03:08 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.312 MHz
Total Power
21.55 dBm
Transmit Freq Error
-8896 Hz
OBW Power
99.00 %
x dB Bandwidth
15.07 MHz
x dB
-6.00 dB
MSG
STATUS

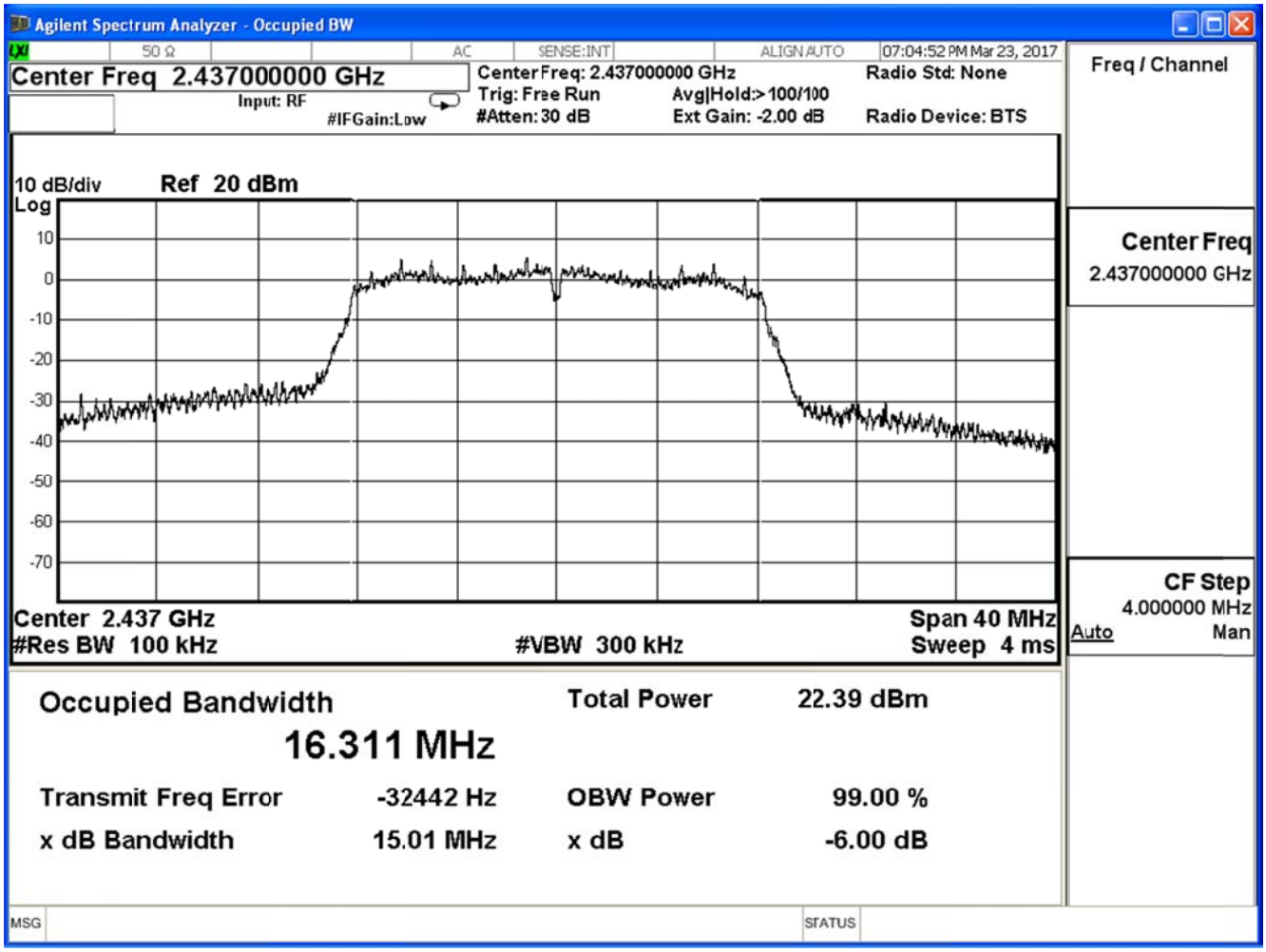
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.080	≧0.5	Pass
6	2437	15.010	≧0.5	Pass
11	2462	15.070	≧0.5	Pass

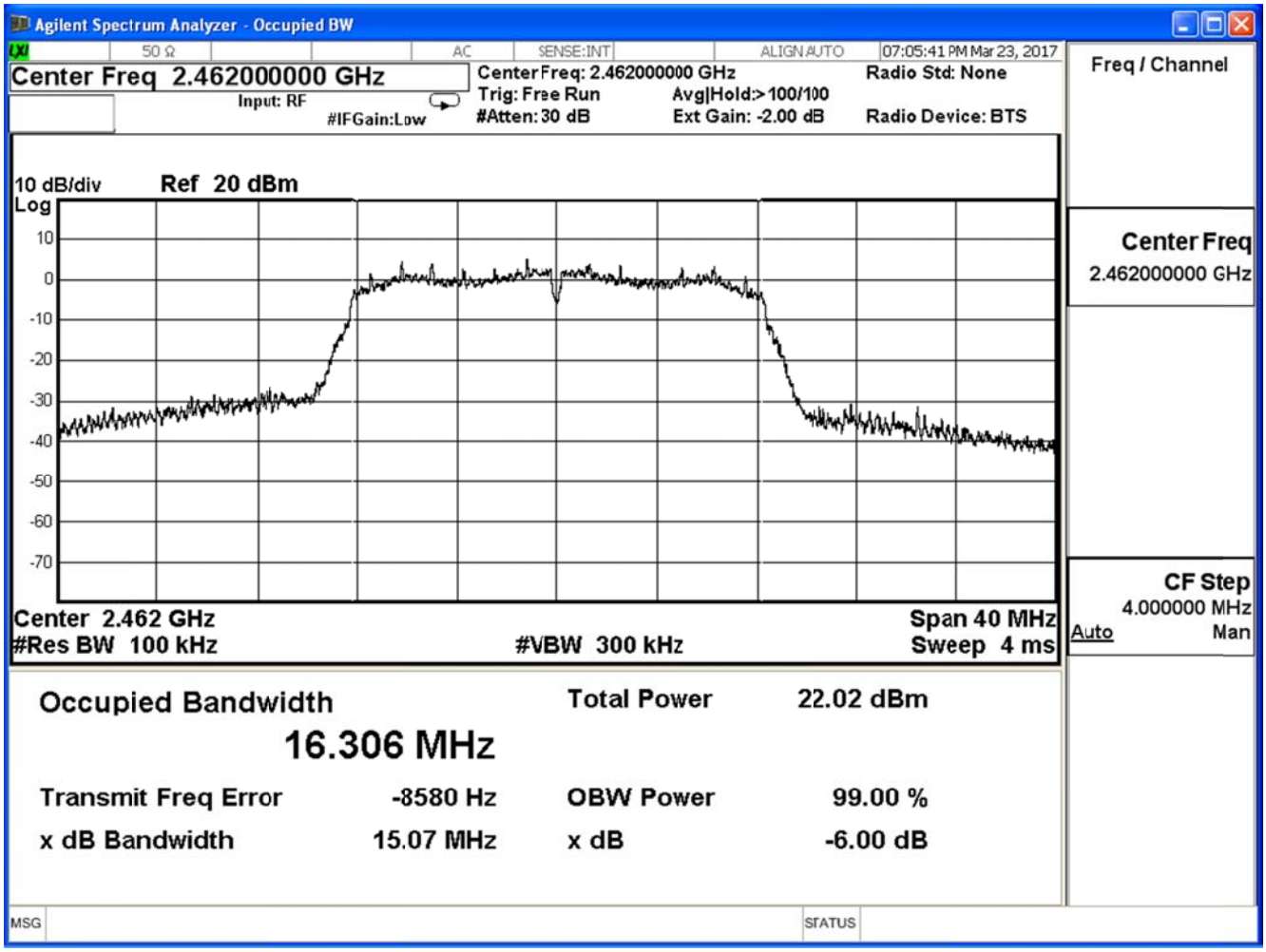
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:04:52 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.311 MHz
Total Power
22.39 dBm
Transmit Freq Error
-32442 Hz
OBW Power
99.00 %
x dB Bandwidth
15.01 MHz
x dB
-6.00 dB
MSG
STATUS

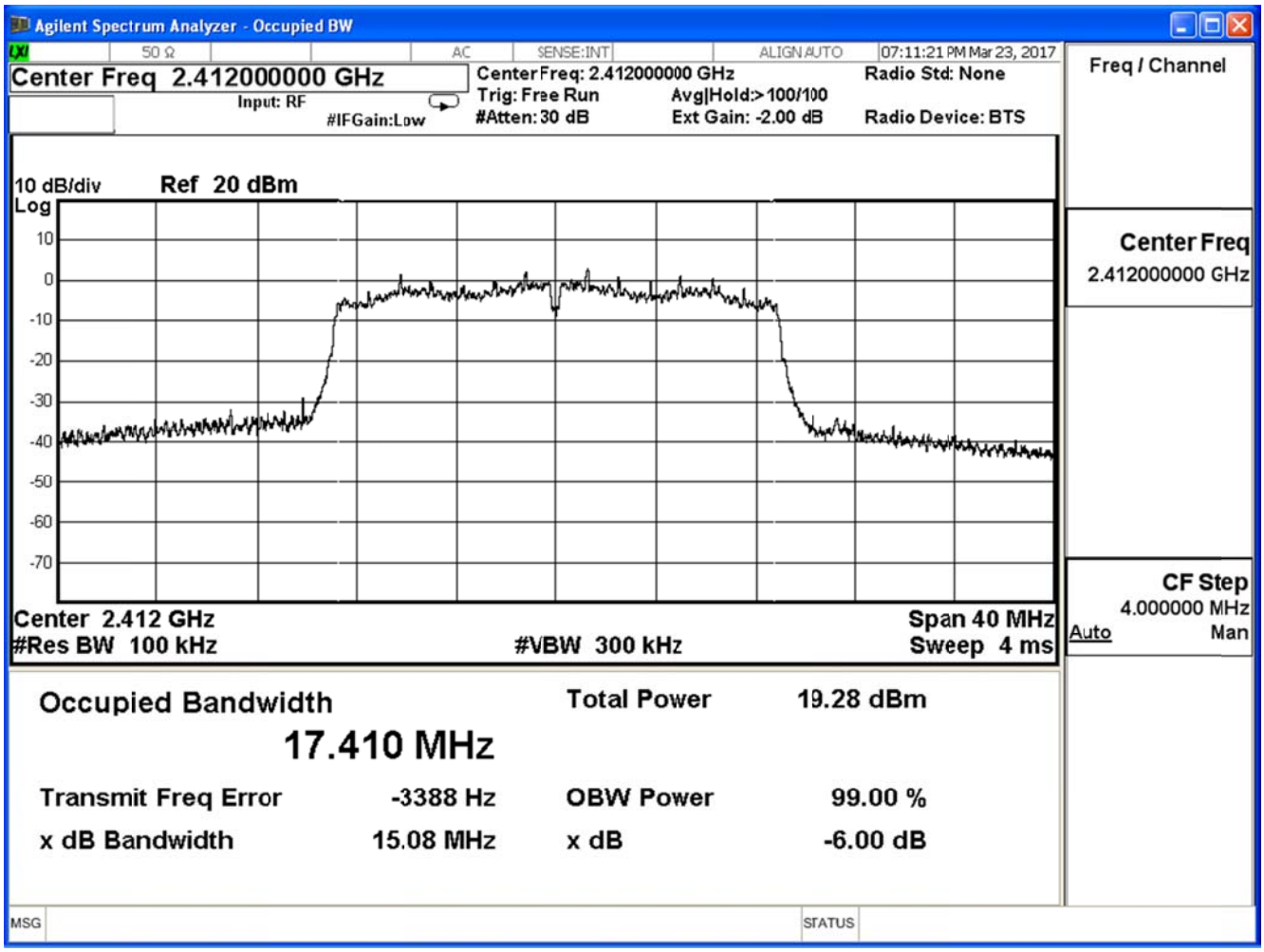
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:05:41 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.306 MHz
Total Power
22.02 dBm
Transmit Freq Error
-8580 Hz
OBW Power
99.00 %
x dB Bandwidth
15.07 MHz
x dB
-6.00 dB
MSG
STATUS

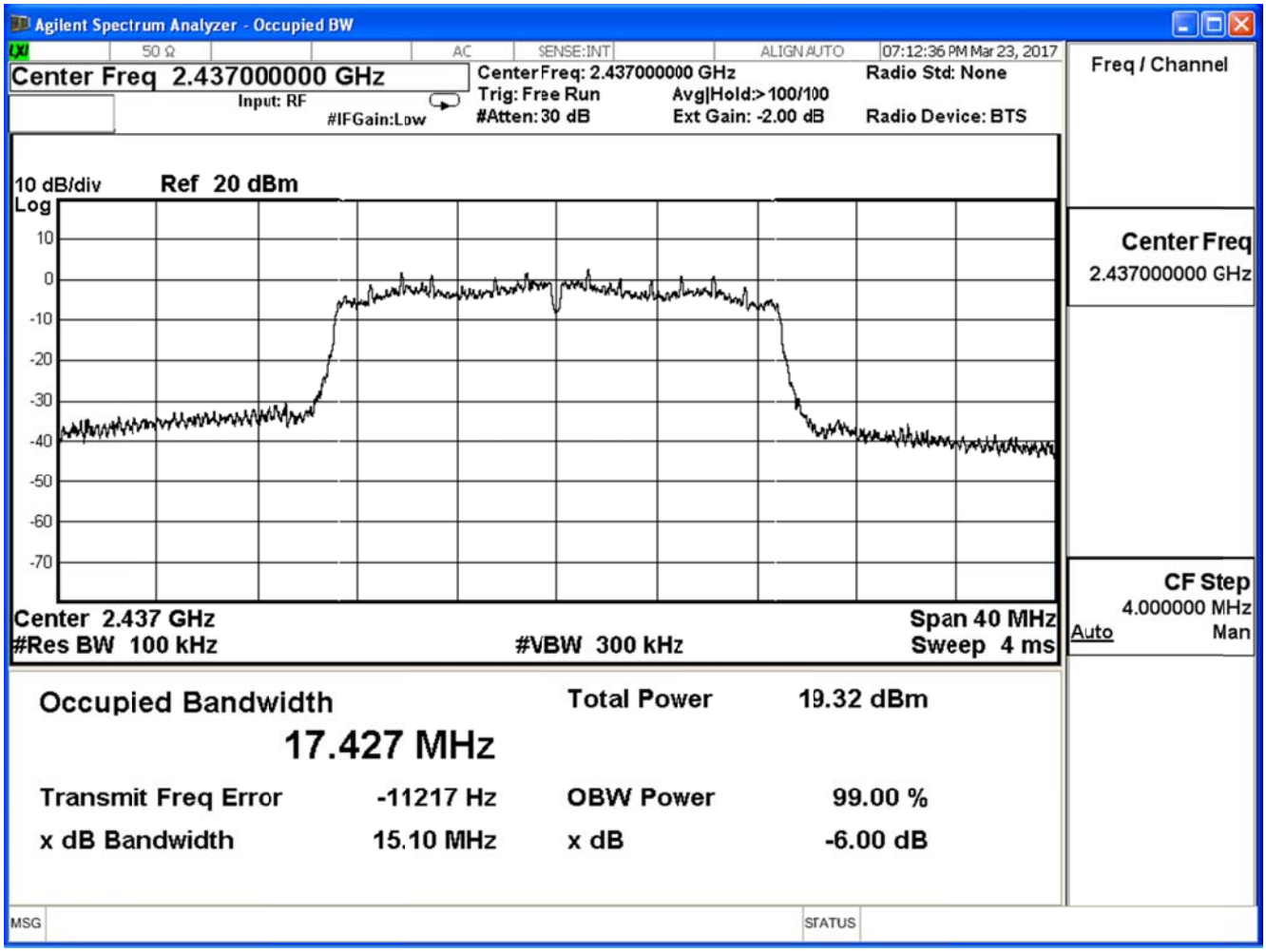
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_20M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.080	≧0.5	Pass
6	2437	15.100	≧0.5	Pass
11	2462	15.010	≧0.5	Pass

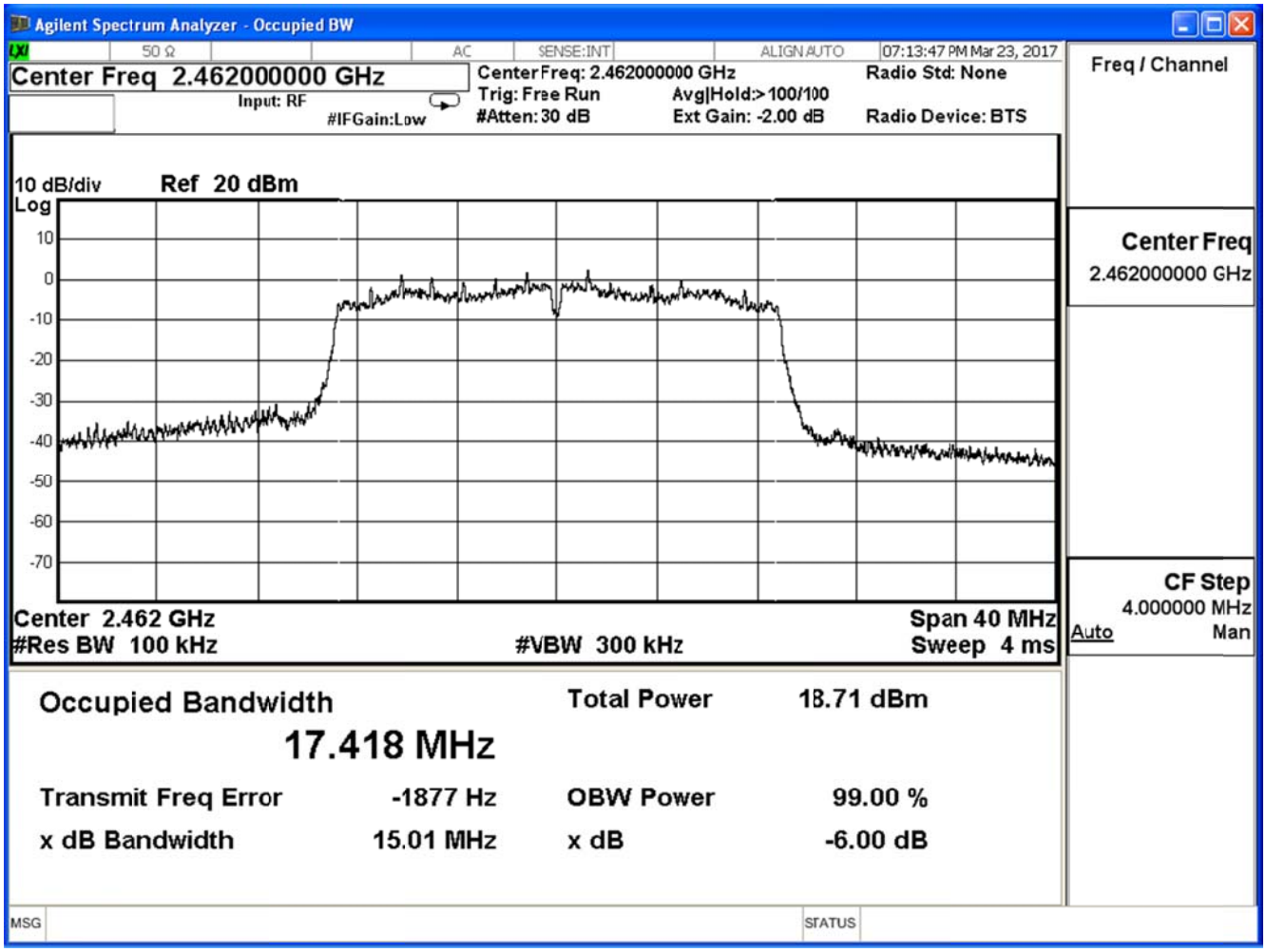
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:12:36 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.427 MHz
Total Power
19.32 dBm
Transmit Freq Error
-11217 Hz
OBW Power
99.00 %
x dB Bandwidth
15.10 MHz
x dB
-6.00 dB
MSG
STATUS

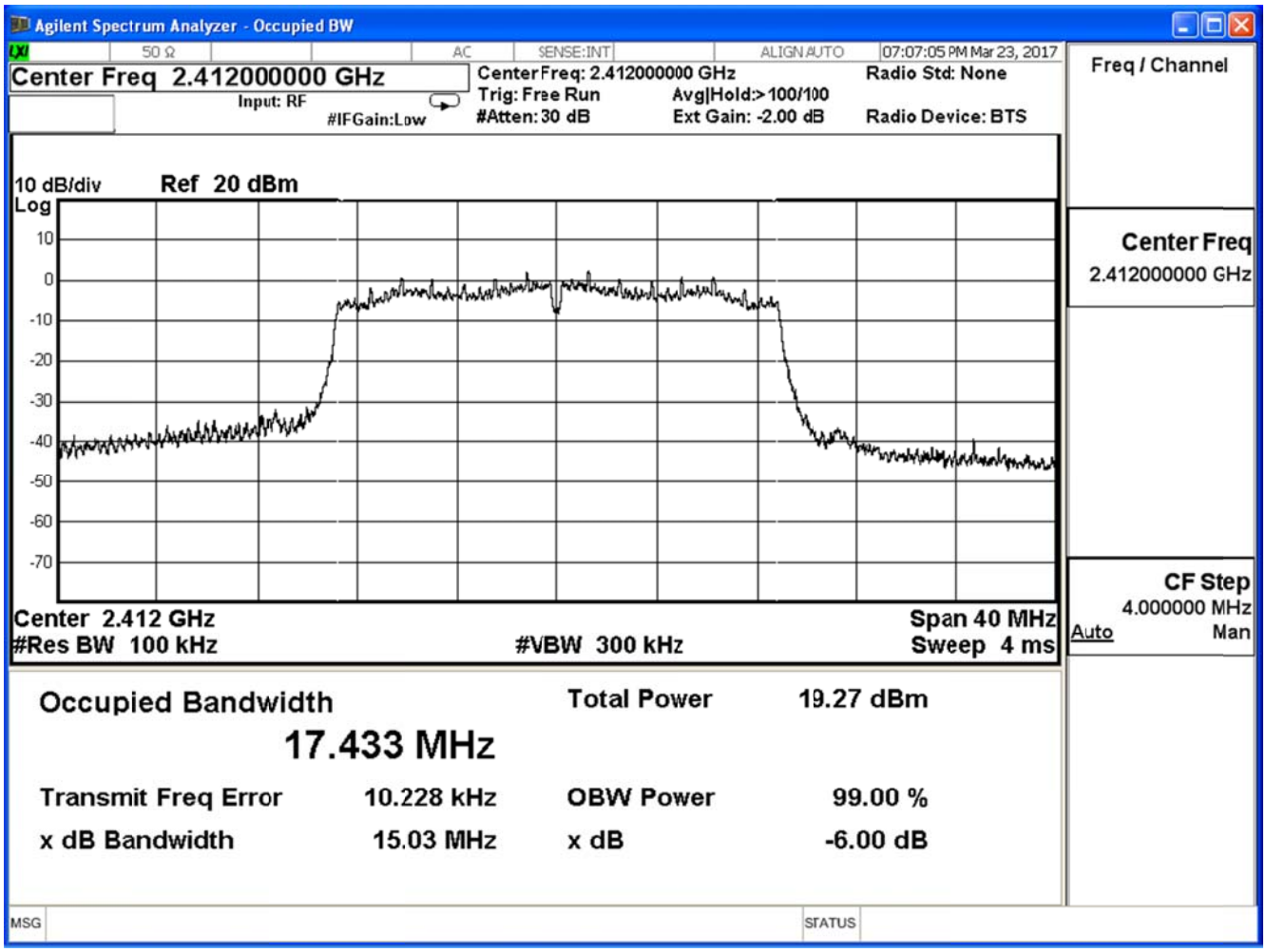
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:13:47 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.418 MHz
Total Power
18.71 dBm
Transmit Freq Error
-1877 Hz
OBW Power
99.00 %
x dB Bandwidth
15.01 MHz
x dB
-6.00 dB
MSG
STATUS

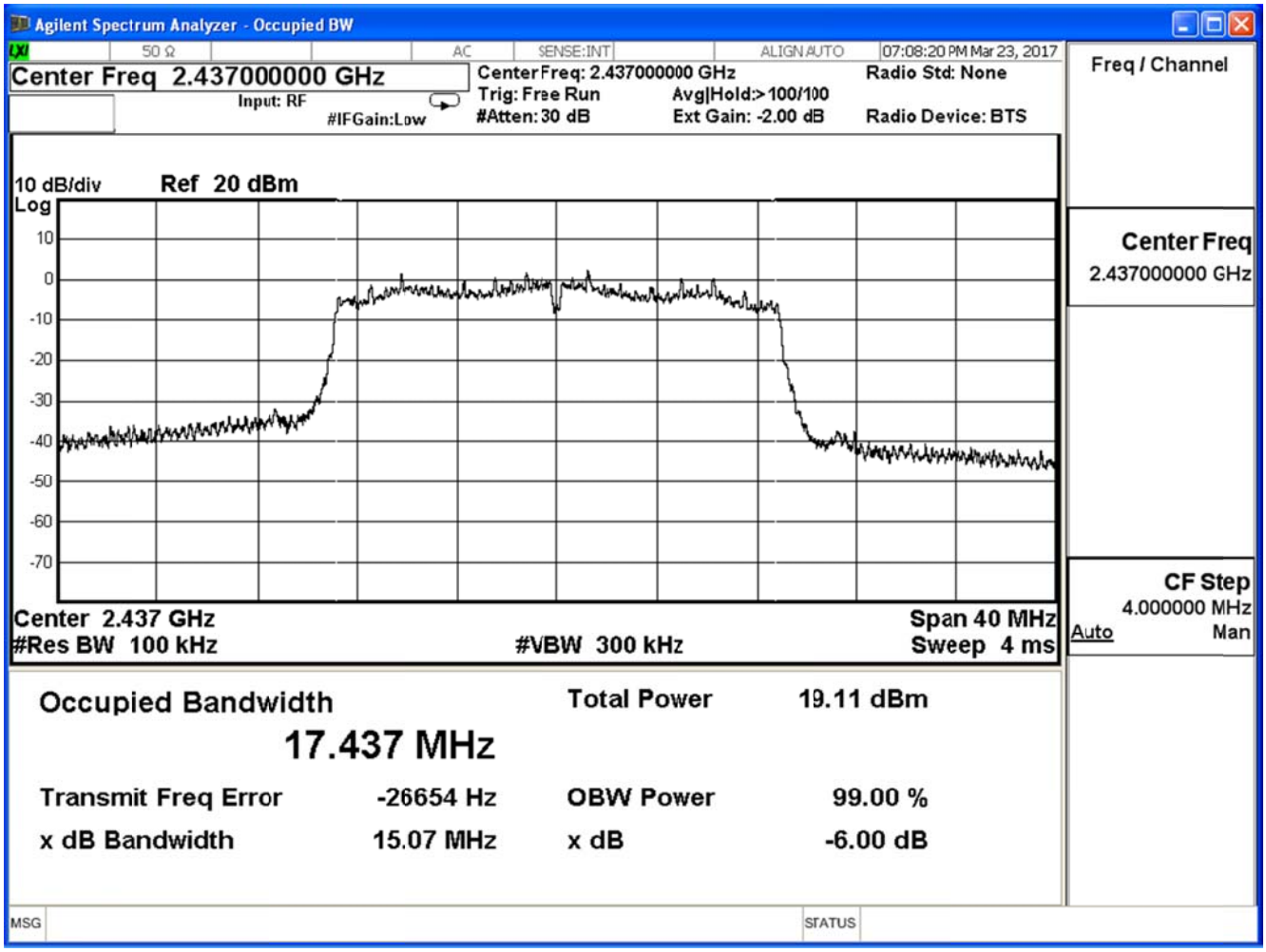
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_20M (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	15.030	≧0.5	Pass
6	2437	15.070	≧0.5	Pass
11	2462	15.070	≧0.5	Pass

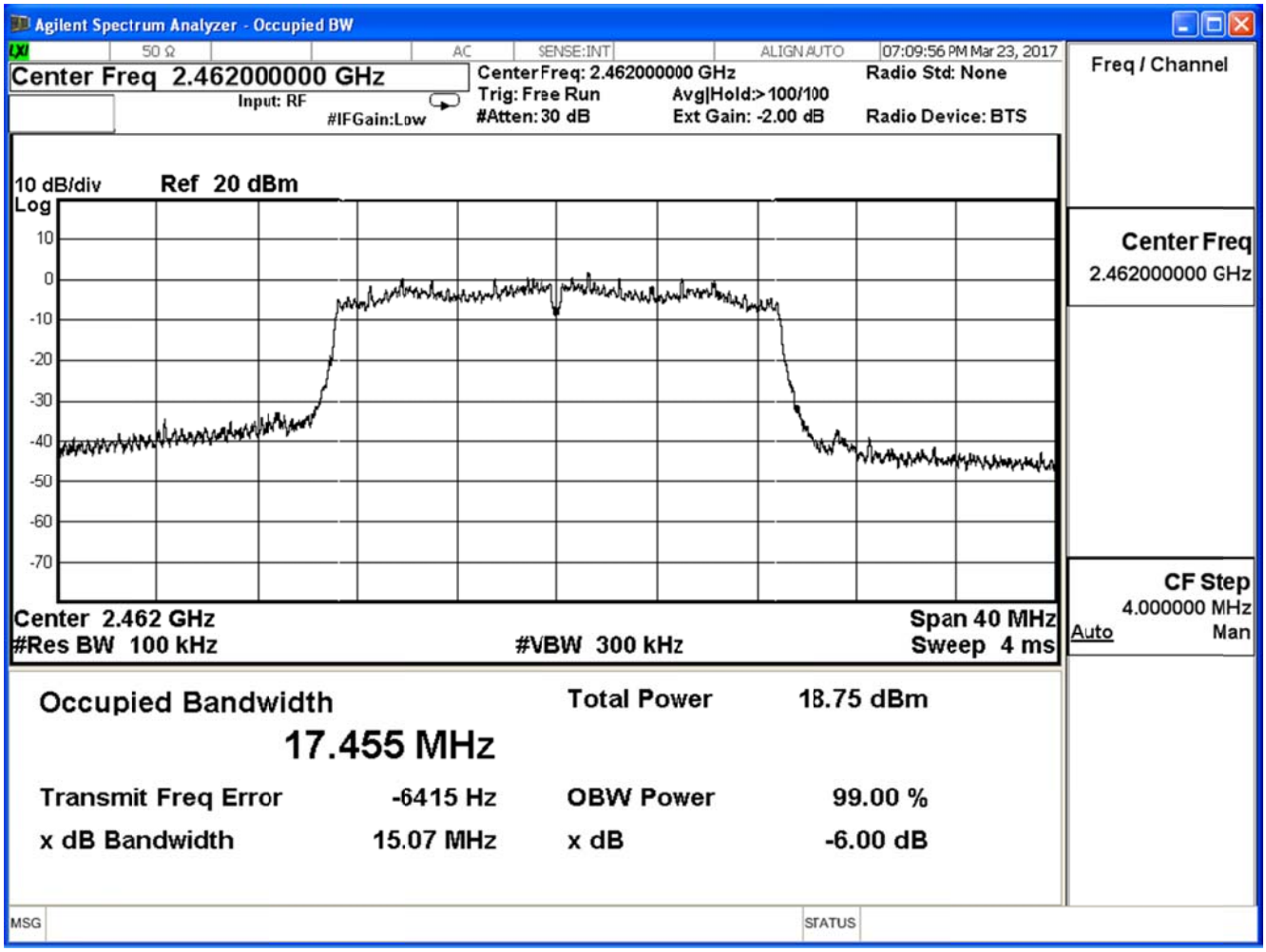
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:08:20 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.437 MHz
Total Power
19.11 dBm
Transmit Freq Error
-26654 Hz
OBW Power
99.00 %
x dB Bandwidth
15.07 MHz
x dB
-6.00 dB
MSG
STATUS

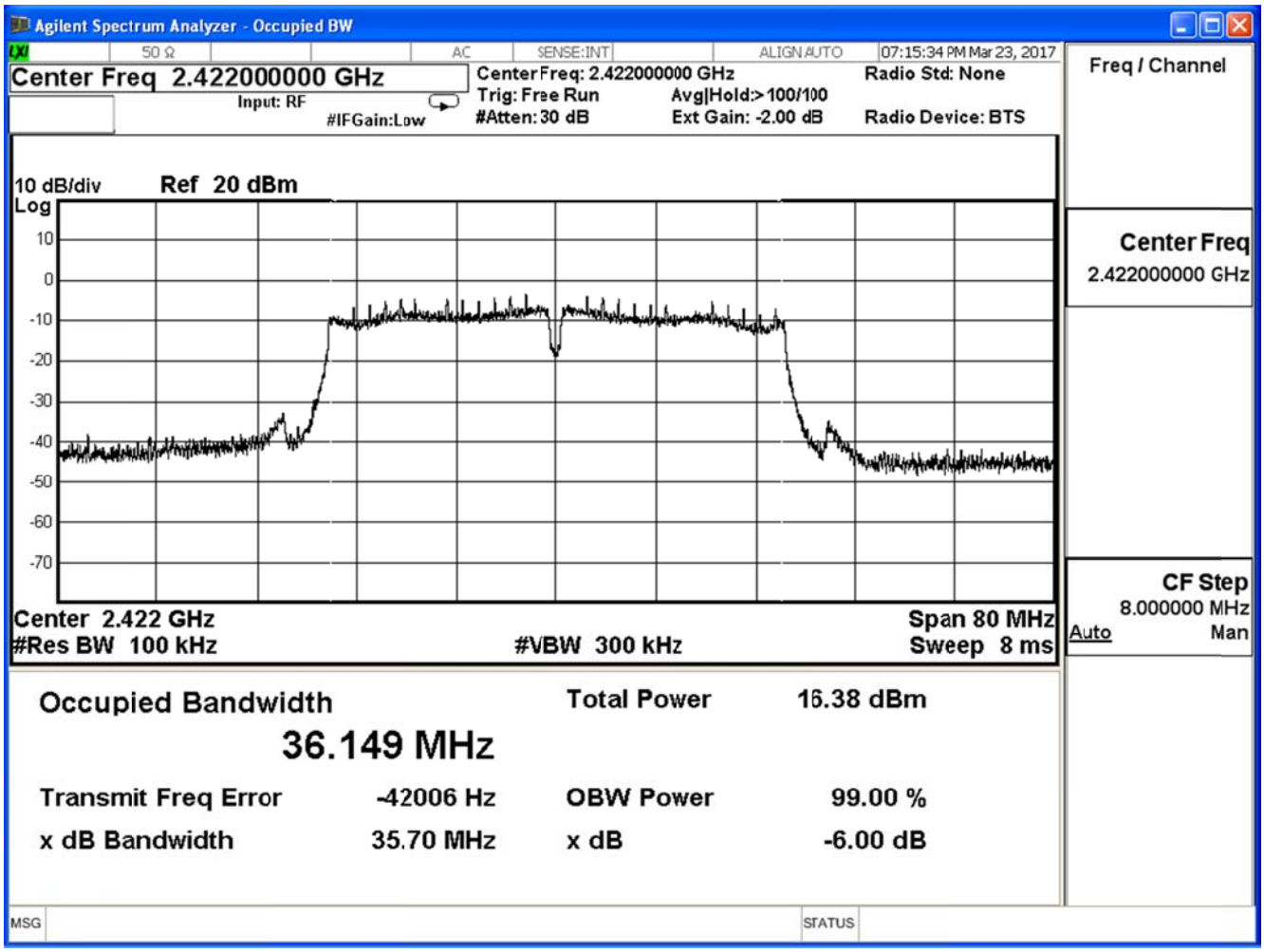
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:09:56 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.455 MHz
Total Power
18.75 dBm
Transmit Freq Error
-6415 Hz
OBW Power
99.00 %
x dB Bandwidth
15.07 MHz
x dB
-6.00 dB
MSG
STATUS

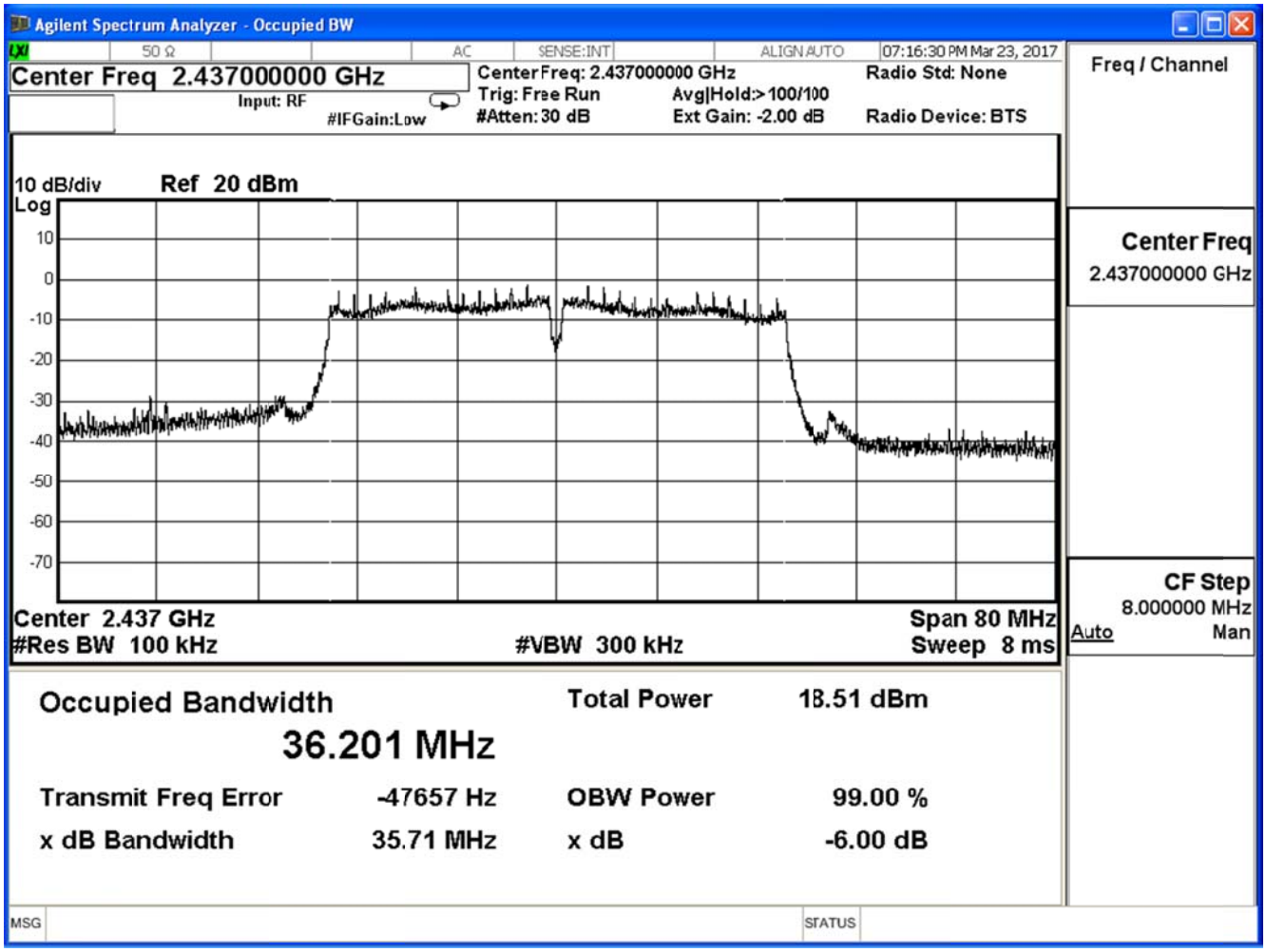
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_40M (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.700	≧0.5	Pass
6	2437	35.710	≧0.5	Pass
9	2452	35.730	≧0.5	Pass

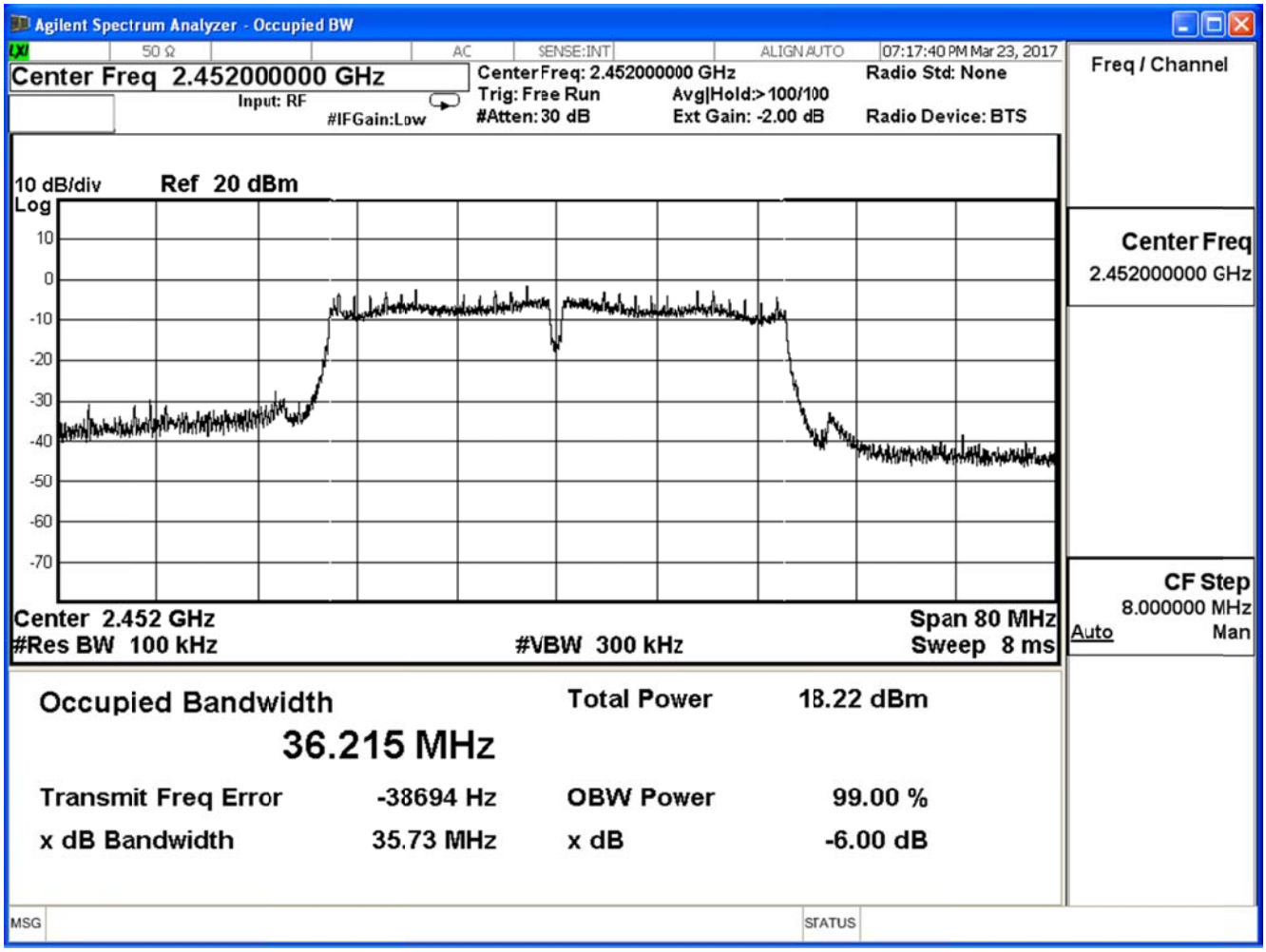
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:16:30 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80 MHz
Sweep 8 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.201 MHz
Total Power
18.51 dBm
Transmit Freq Error
-47657 Hz
OBW Power
99.00 %
x dB Bandwidth
35.71 MHz
x dB
-6.00 dB
MSG
STATUS

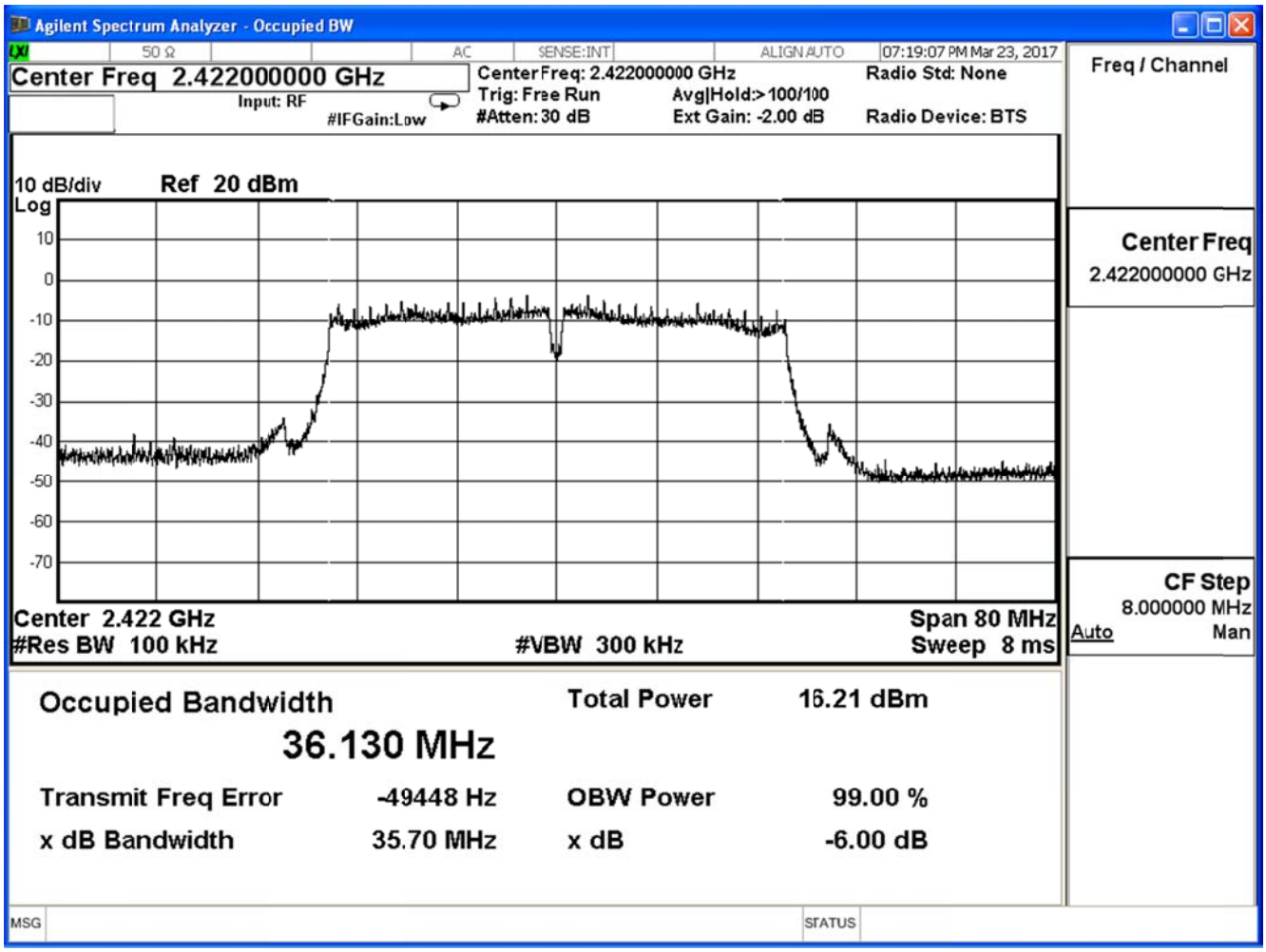
Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:17:40 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80 MHz
Sweep 8 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.215 MHz
Total Power
18.22 dBm
Transmit Freq Error
-38694 Hz
OBW Power
99.00 %
x dB Bandwidth
35.73 MHz
x dB
-6.00 dB
MSG
STATUS

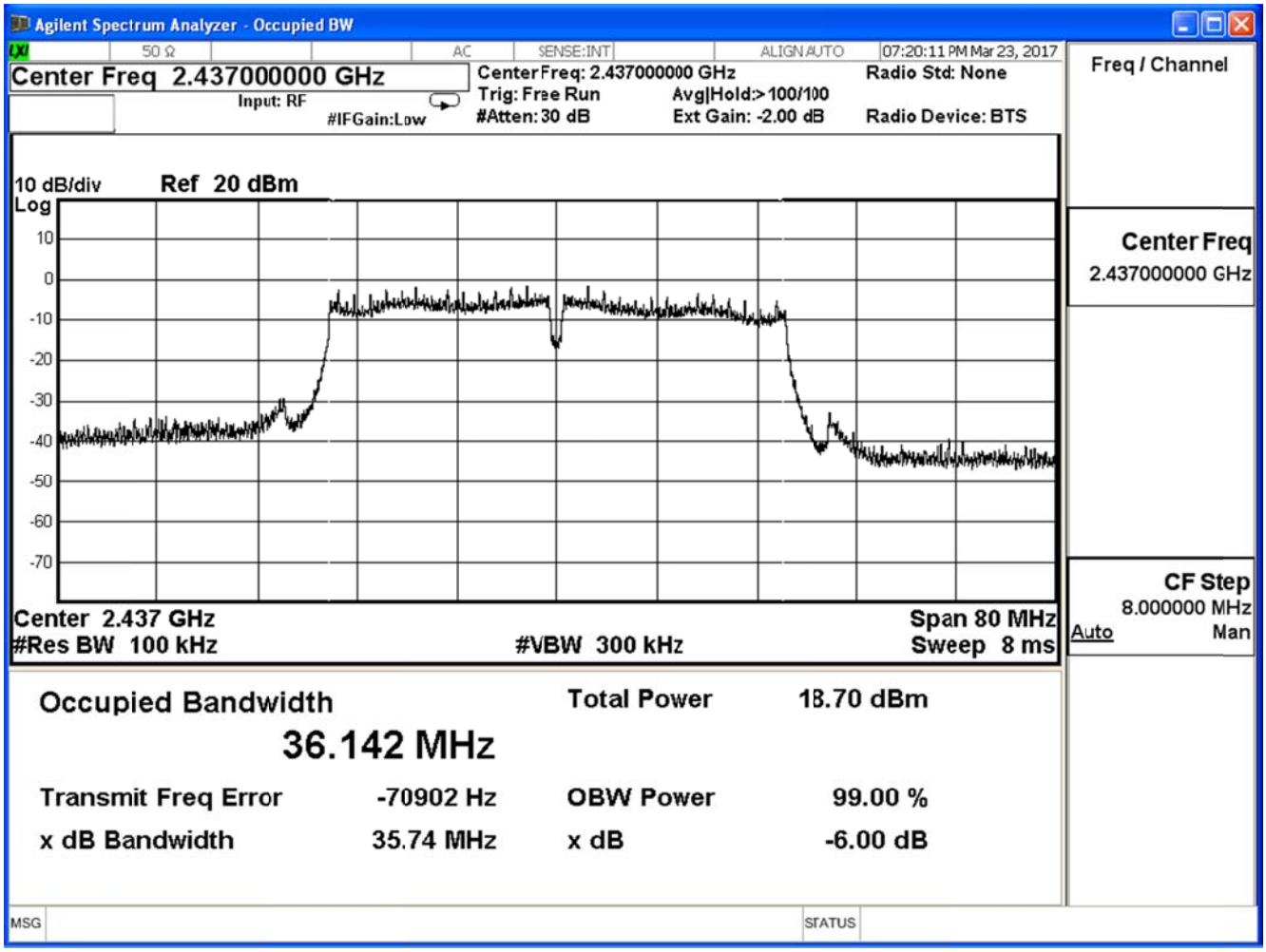
Product	UHD751-P		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11n_40M (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	35.700	≧0.5	Pass
6	2437	35.740	≧0.5	Pass
9	2452	36.340	≧0.5	Pass

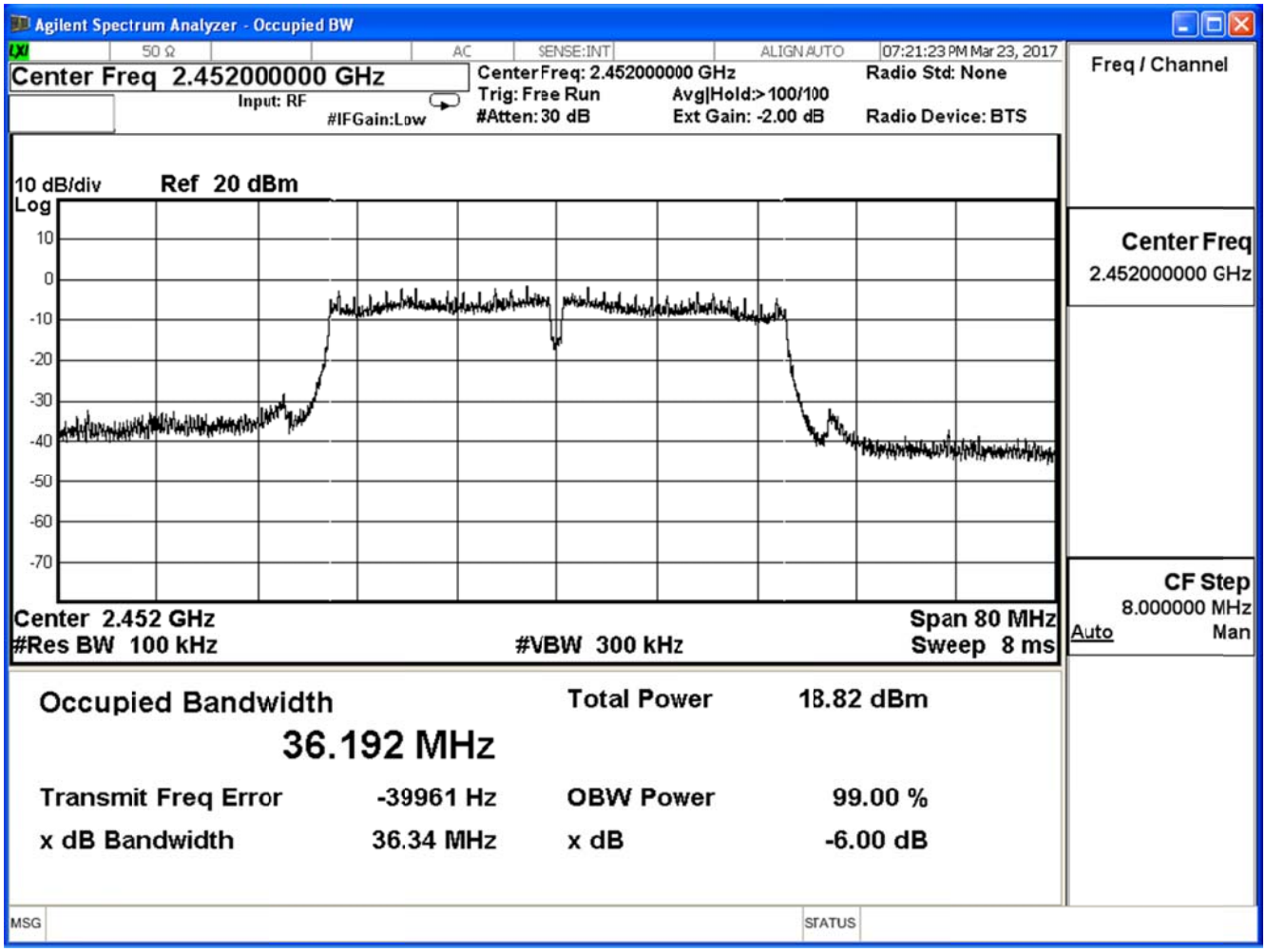
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:20:11 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80 MHz
Sweep 8 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.142 MHz
Total Power
18.70 dBm
Transmit Freq Error
-70902 Hz
OBW Power
99.00 %
x dB Bandwidth
35.74 MHz
x dB
-6.00 dB
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:21:23 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80 MHz
Sweep 8 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.192 MHz
Total Power
18.82 dBm
Transmit Freq Error
-39961 Hz
OBW Power
99.00 %
x dB Bandwidth
36.34 MHz
x dB
-6.00 dB
MSG
STATUS

8. Occupied Bandwidth

8.1. Test Equipment

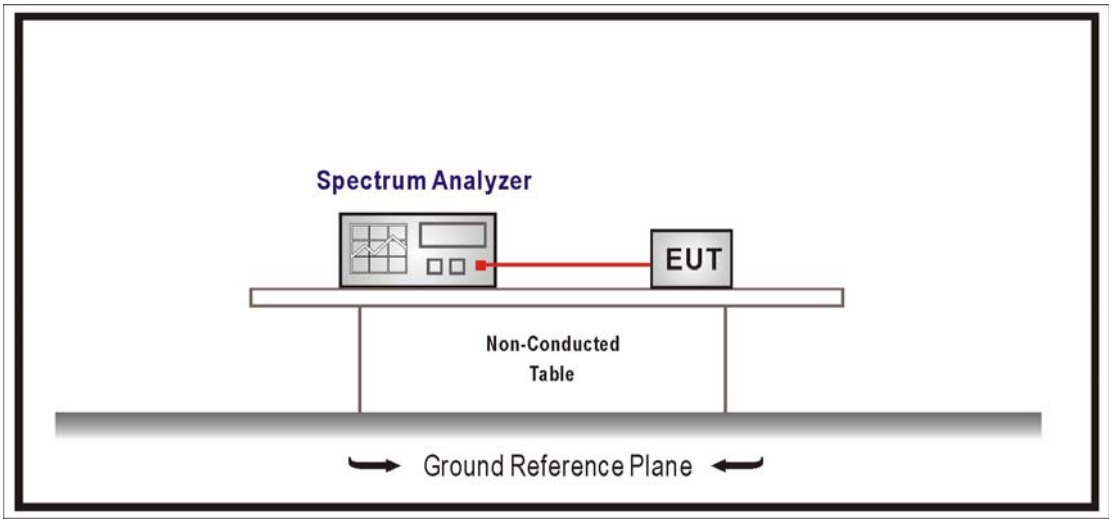
The following test equipments are used during the test:

Occupied Bandwidth / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

8.2. Test Setup



8.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 1-5% of the OBW, Set the VBW≧3xRBW, Sweep Time=Auto.

8.4. Limits

NA

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

8.6. Uncertainty

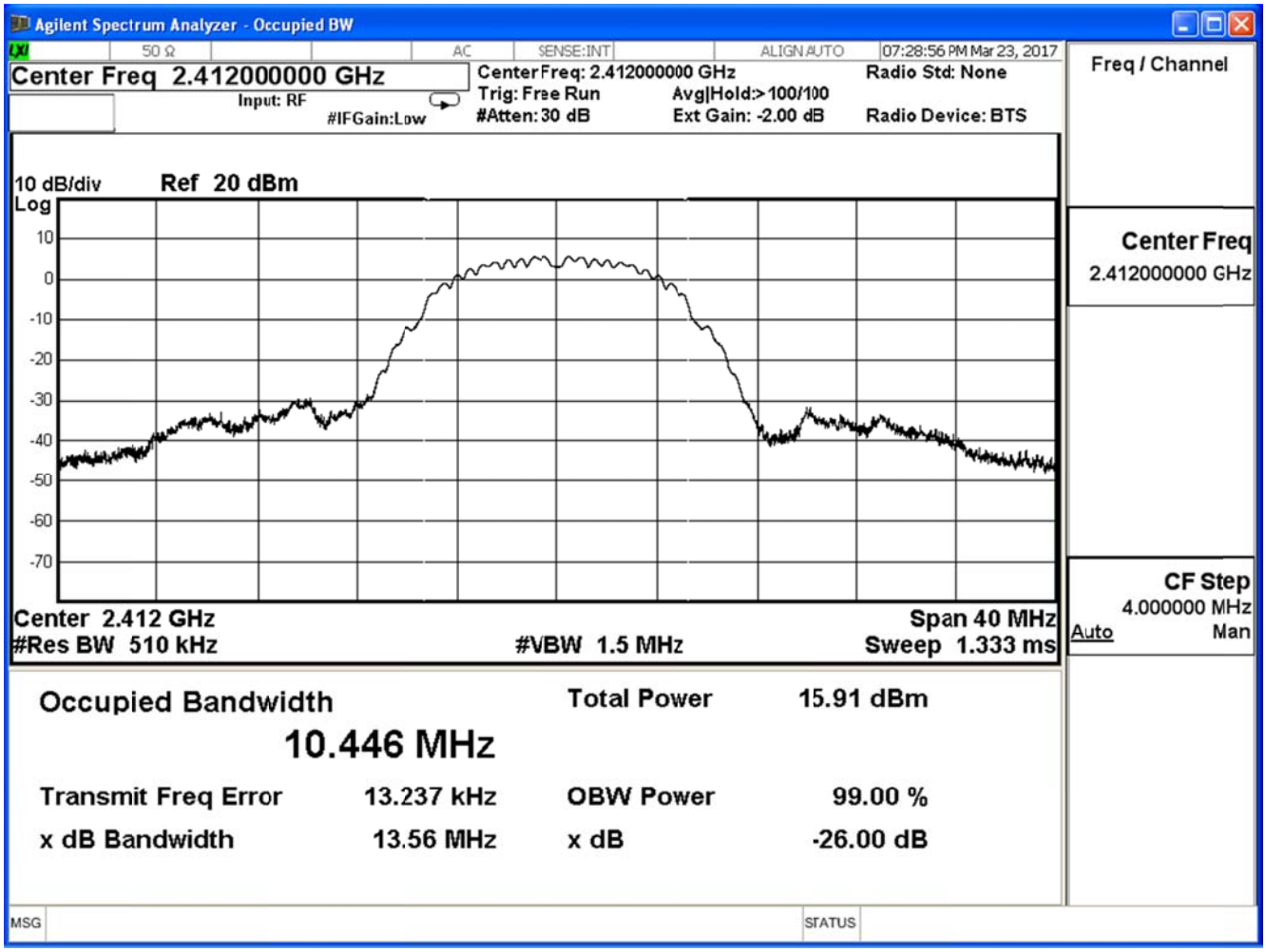
The measurement uncertainty is defined as ±150Hz

8.7. Test Result

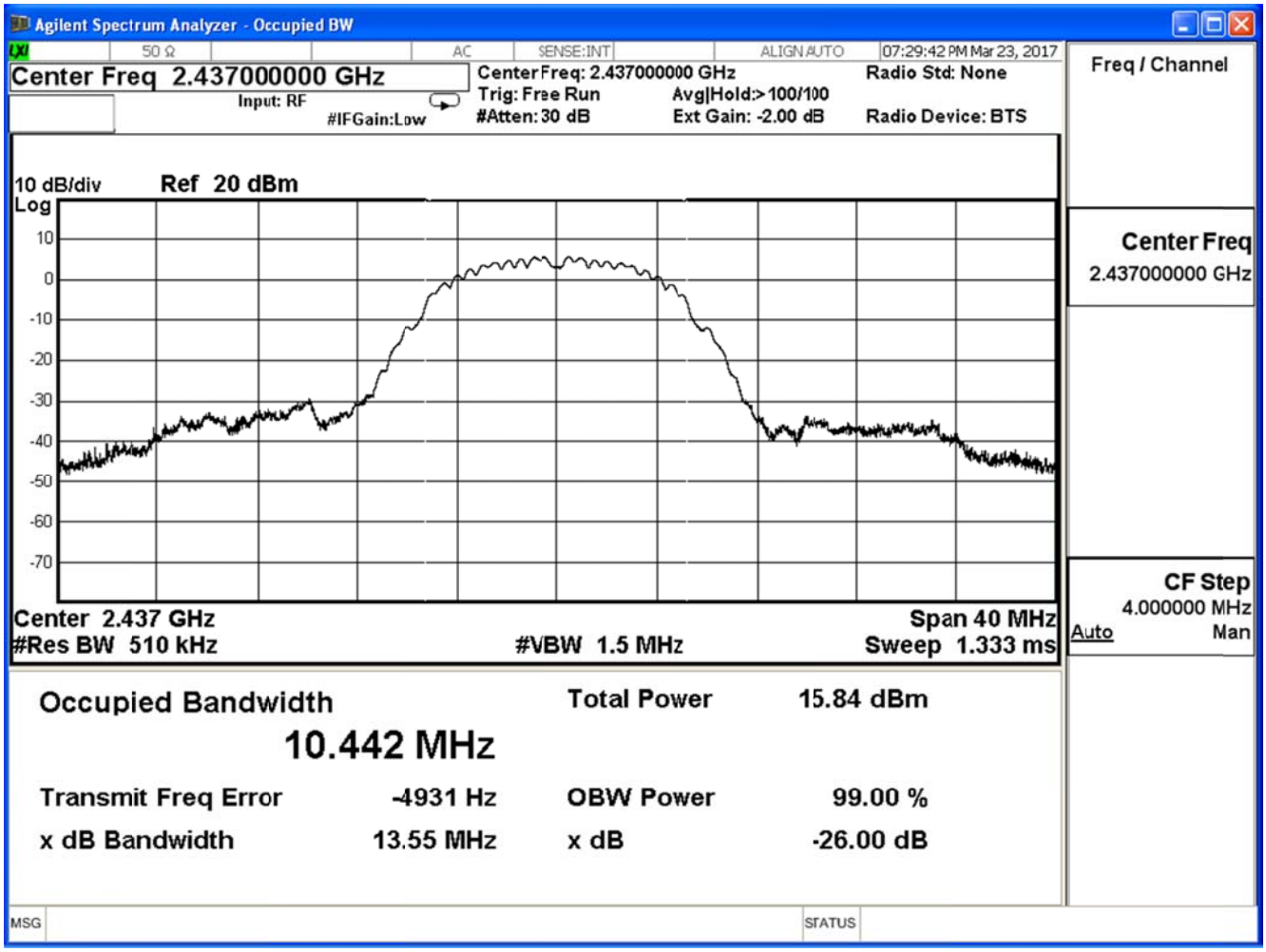
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	10.446	--	Pass
6	2437	10.442	--	Pass
11	2462	10.454	--	Pass

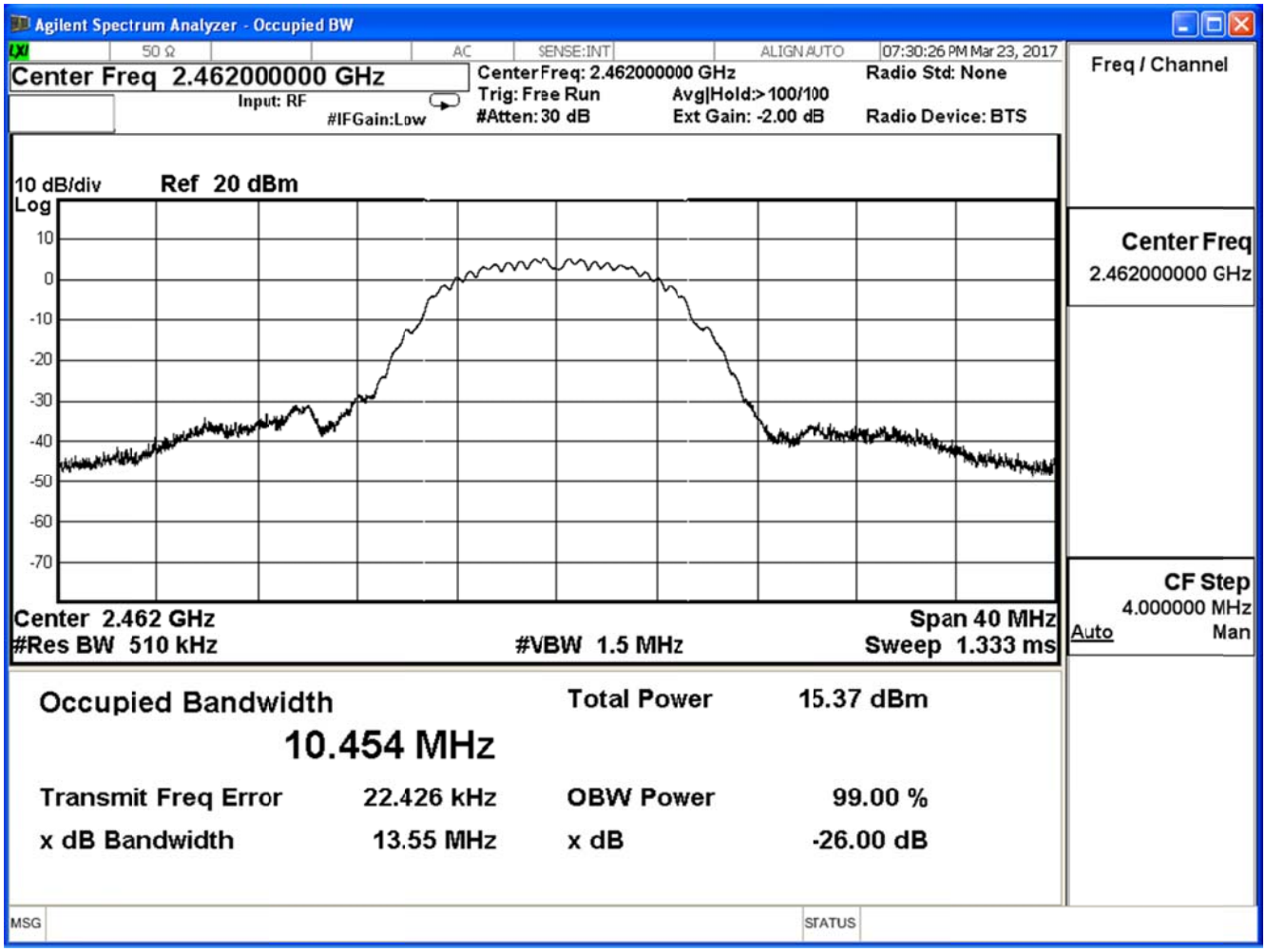
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:29:42 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.442 MHz
Total Power
15.84 dBm
Transmit Freq Error
-4931 Hz
OBW Power
99.00 %
x dB Bandwidth
13.55 MHz
x dB
-26.00 dB
MSG
STATUS

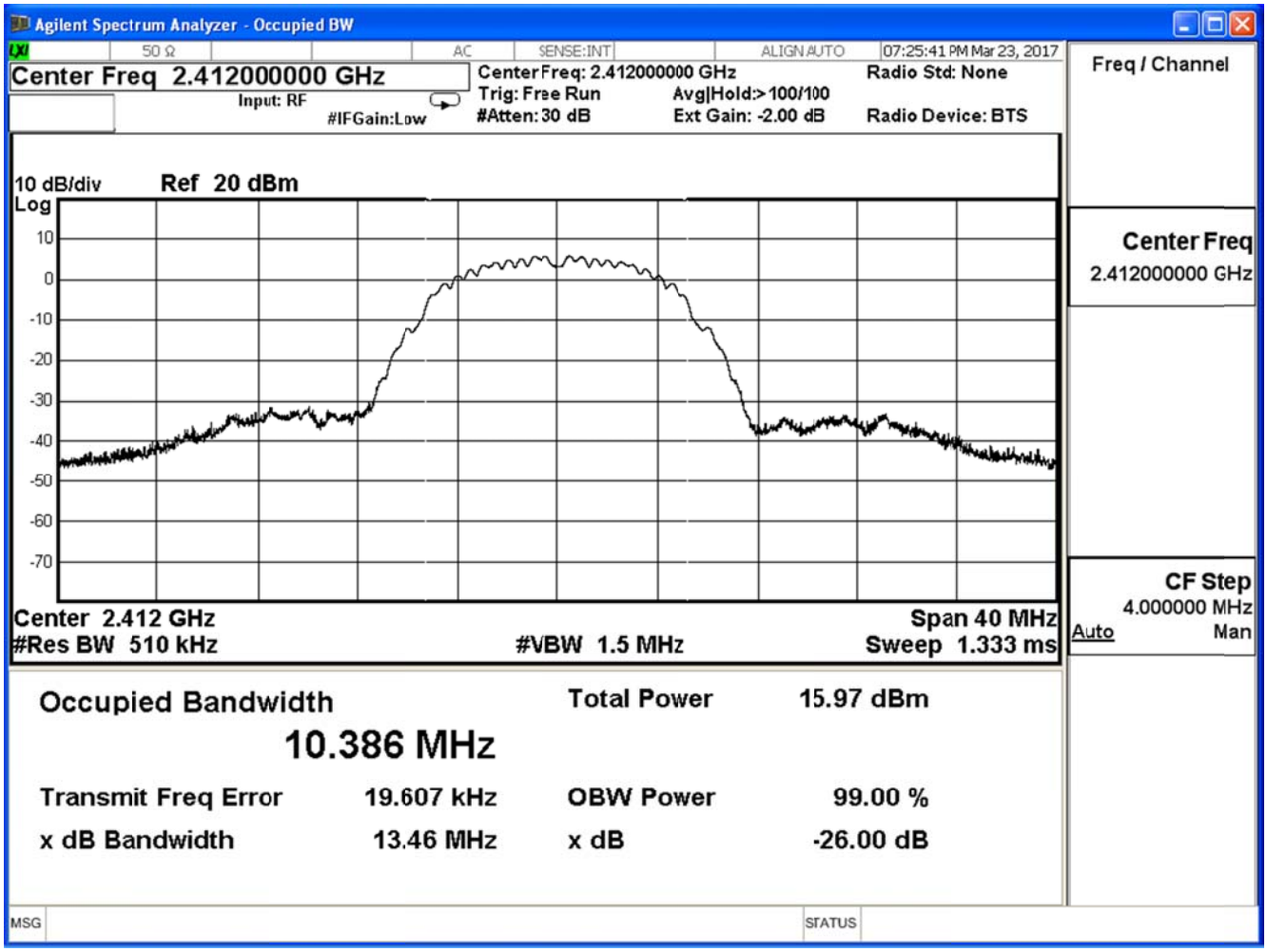
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:30:26 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.454 MHz
Total Power
15.37 dBm
Transmit Freq Error
22.426 kHz
OBW Power
99.00 %
x dB Bandwidth
13.55 MHz
x dB
-26.00 dB
MSG
STATUS

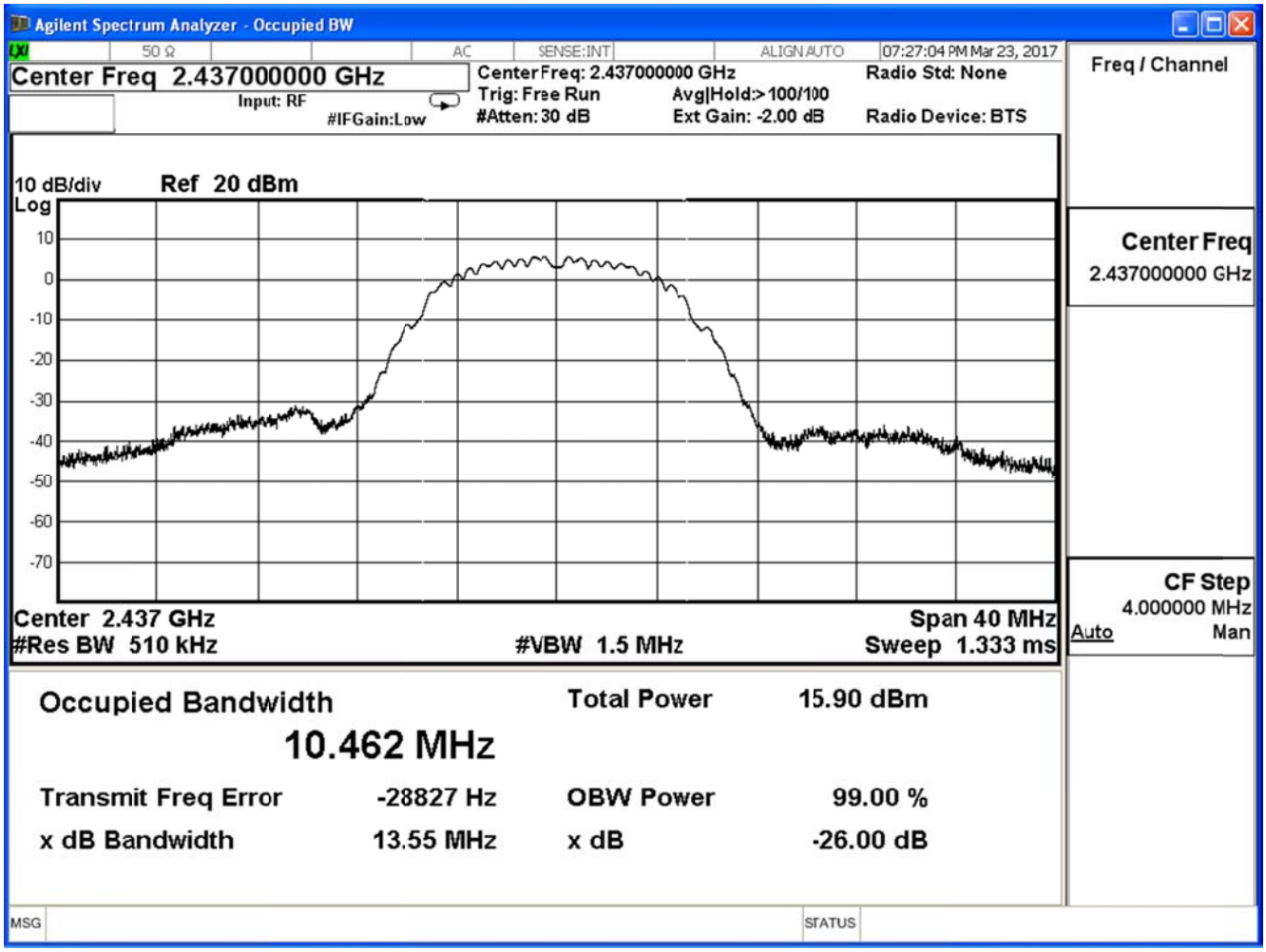
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	10.386	--	Pass
6	2437	10.462	--	Pass
11	2462	10.468	--	Pass

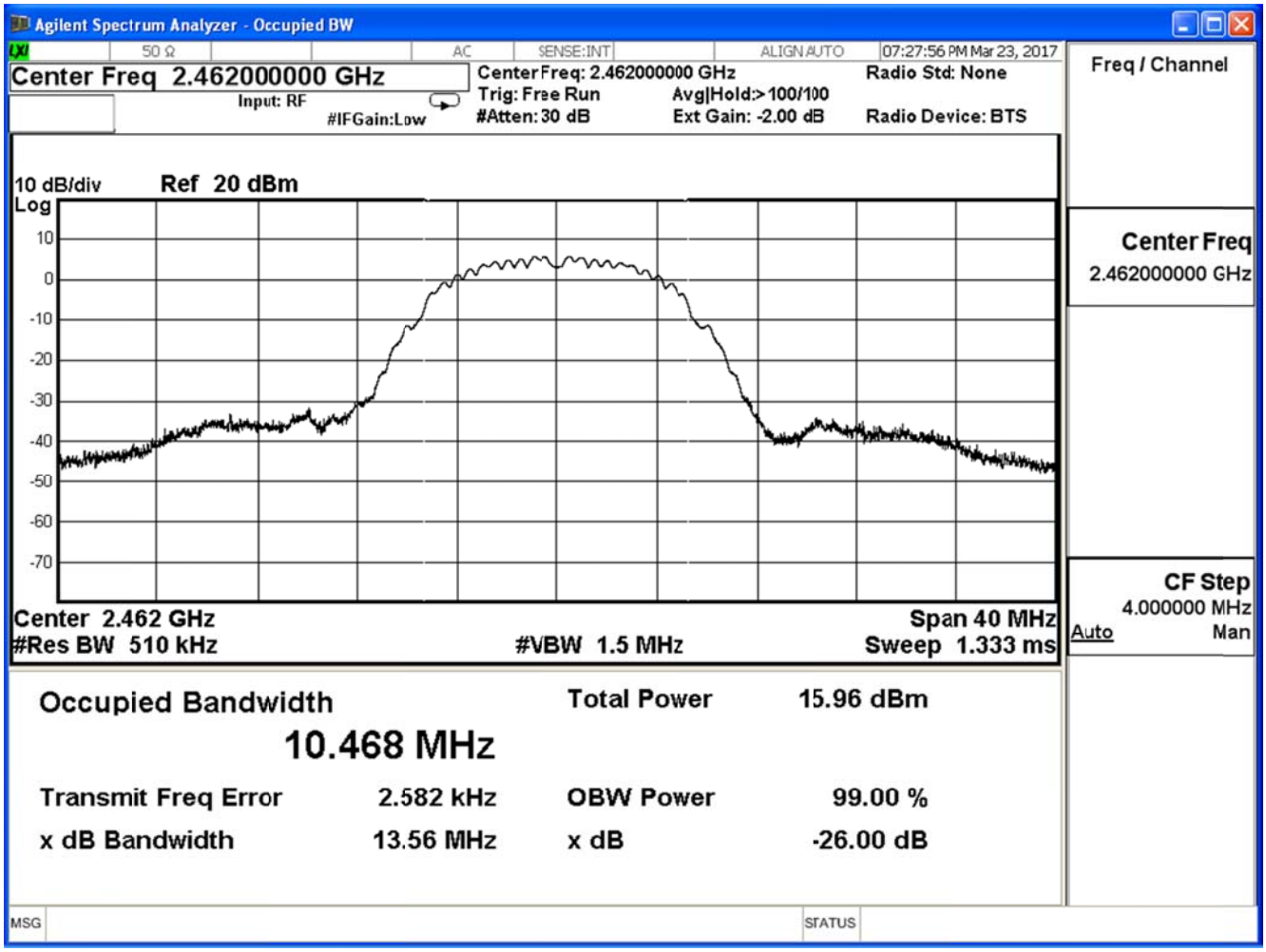
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:27:04 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.462 MHz
Total Power
15.90 dBm
Transmit Freq Error
-28827 Hz
OBW Power
99.00 %
x dB Bandwidth
13.55 MHz
x dB
-26.00 dB
MSG
STATUS

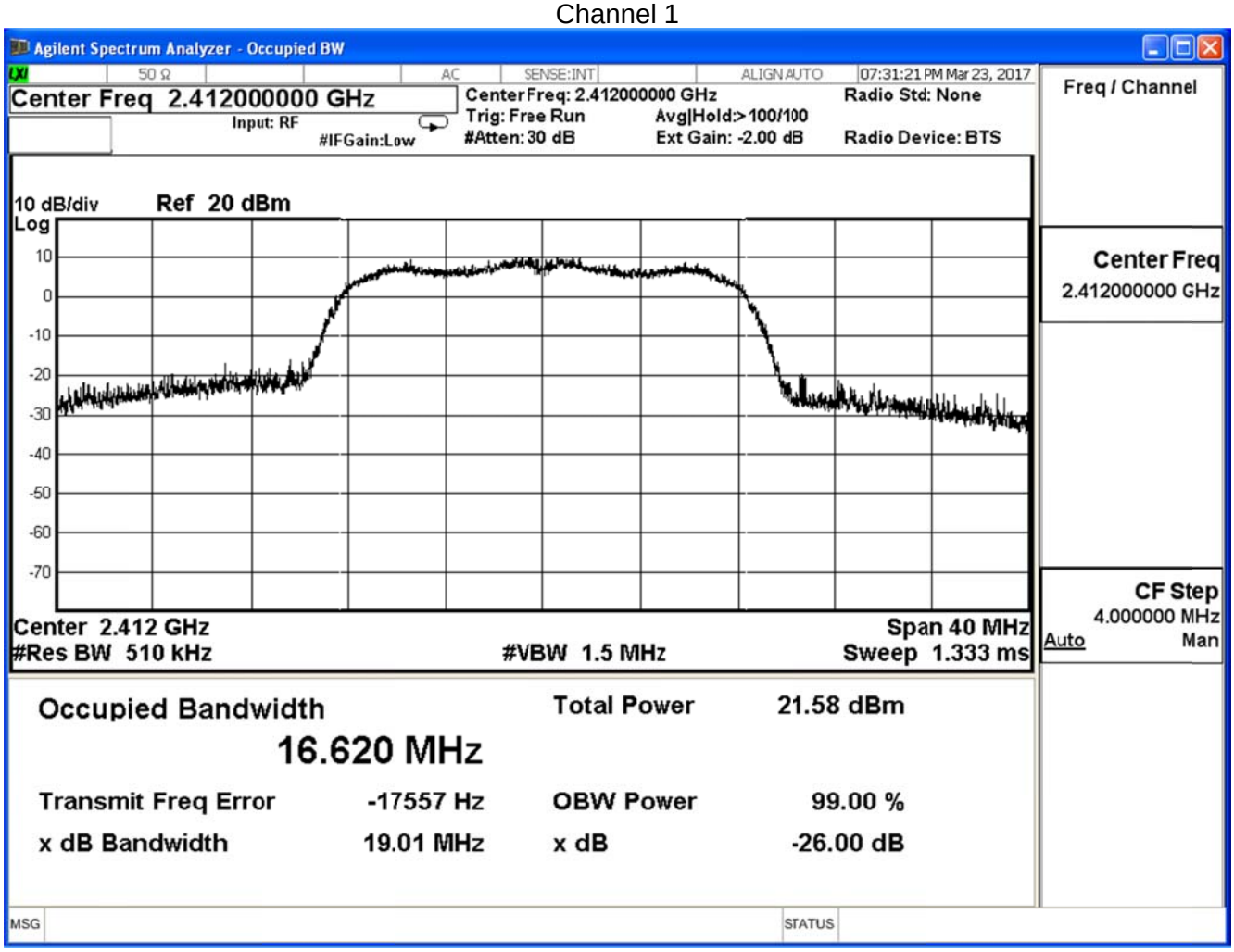
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:27:56 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
10.468 MHz
Total Power
15.96 dBm
Transmit Freq Error
2.582 kHz
OBW Power
99.00 %
x dB Bandwidth
13.56 MHz
x dB
-26.00 dB
MSG
STATUS

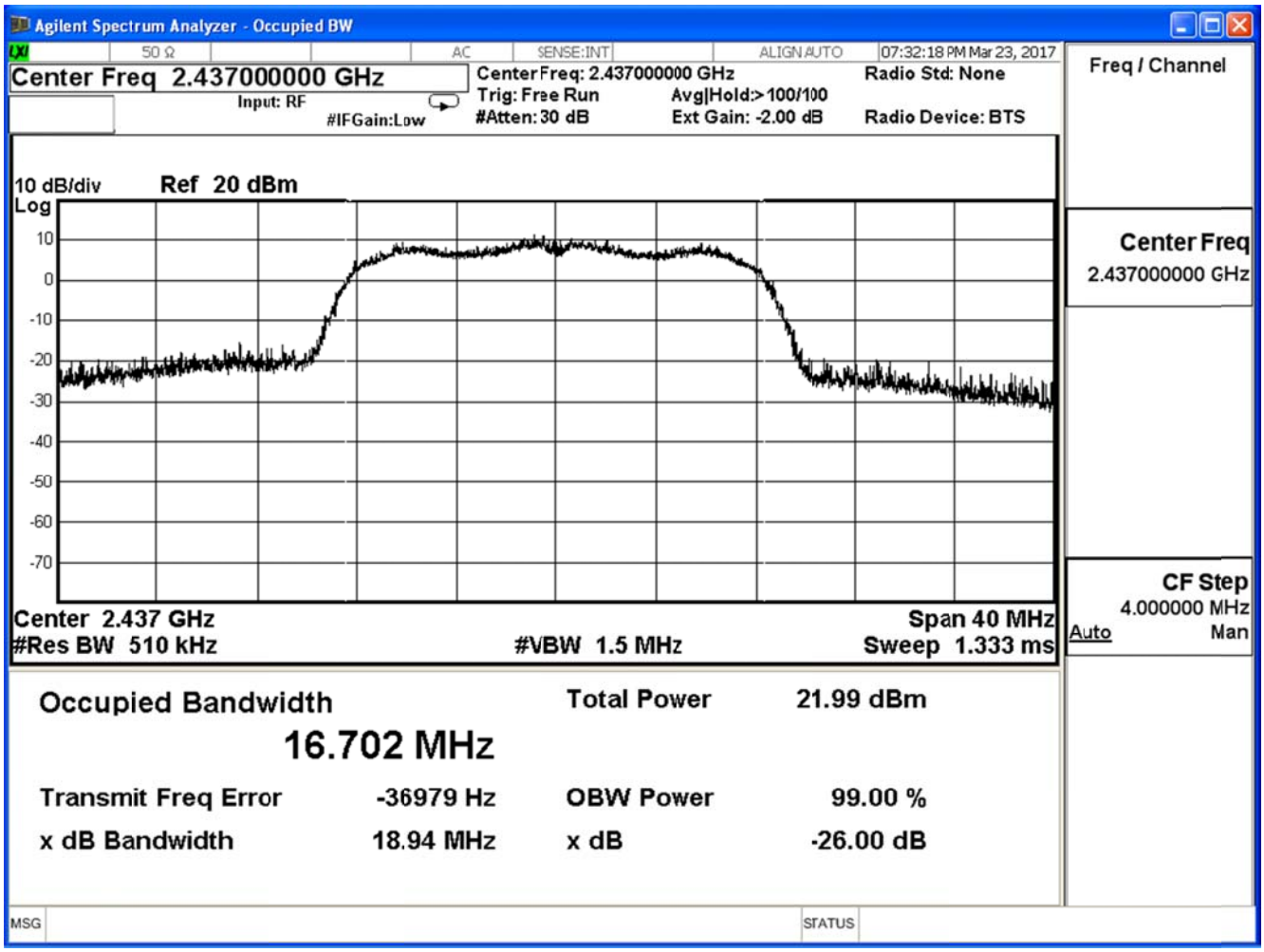
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.620	--	Pass
6	2437	16.702	--	Pass
11	2462	16.734	--	Pass

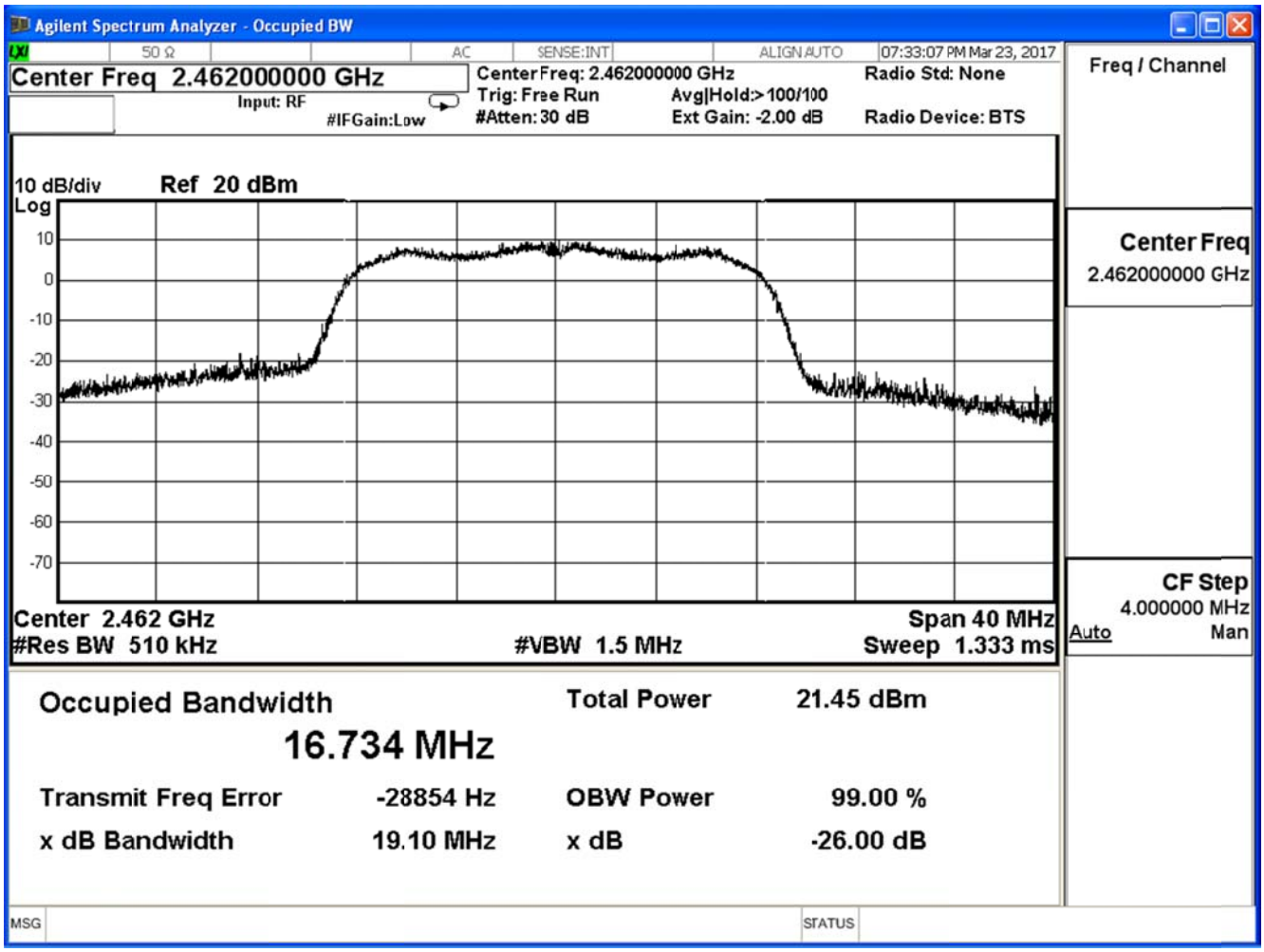
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:32:18 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.702 MHz
Total Power
21.99 dBm
Transmit Freq Error
-36979 Hz
OBW Power
99.00 %
x dB Bandwidth
18.94 MHz
x dB
-26.00 dB
MSG
STATUS

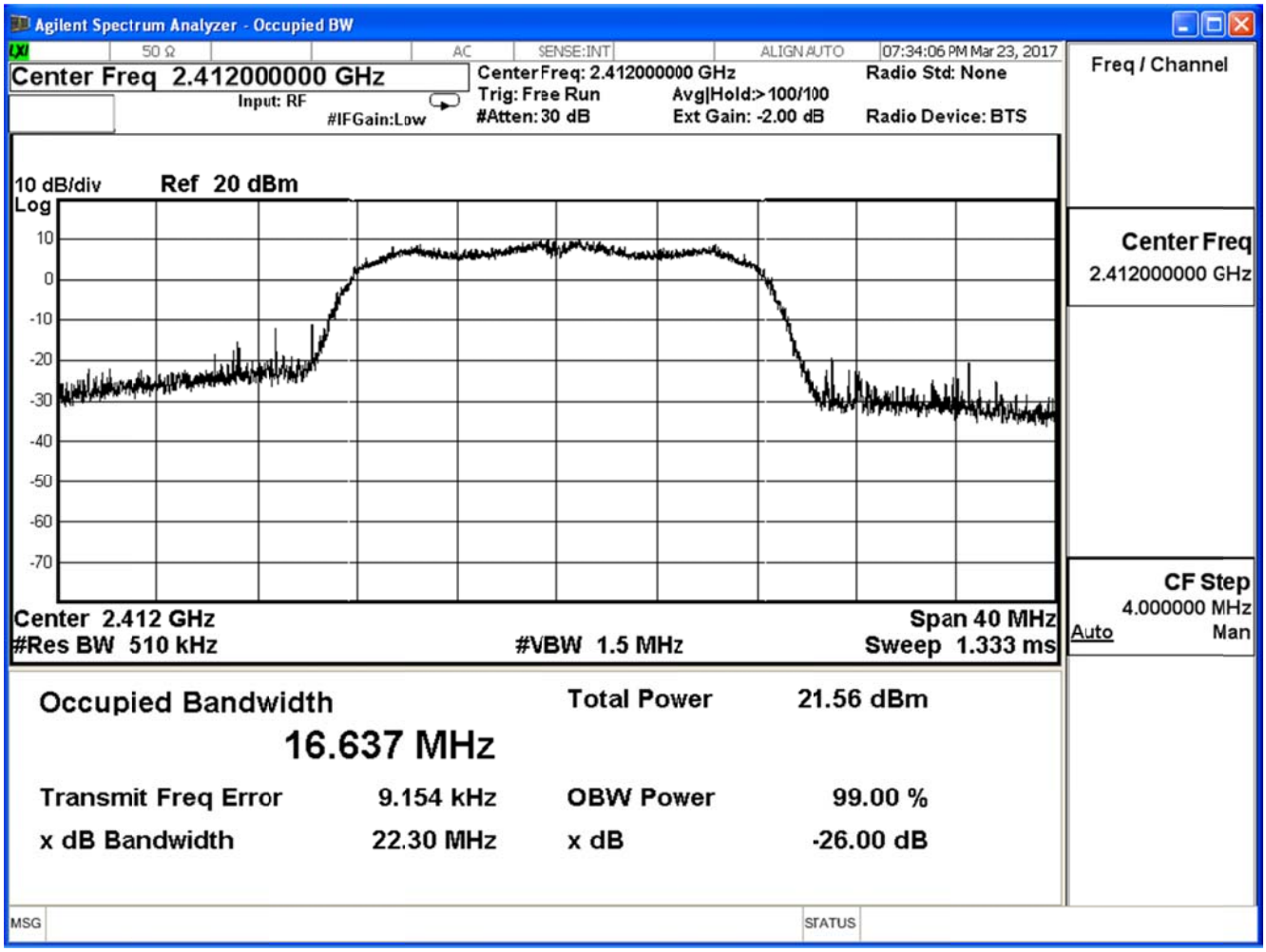
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:33:07 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.734 MHz
Total Power
21.45 dBm
Transmit Freq Error
-28854 Hz
OBW Power
99.00 %
x dB Bandwidth
19.10 MHz
x dB
-26.00 dB
MSG
STATUS

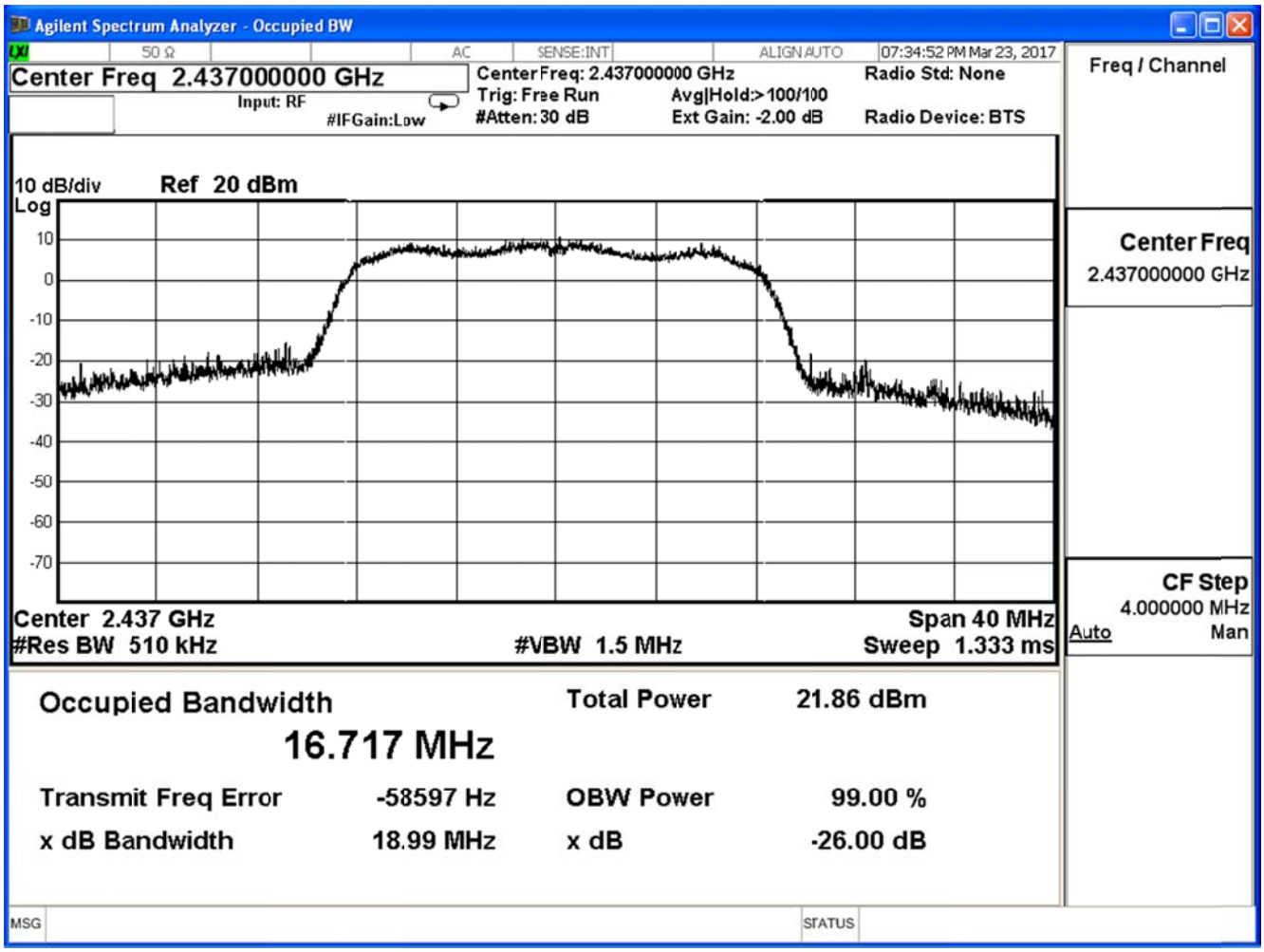
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

802.11 g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	16.637	--	Pass
6	2437	16.717	--	Pass
11	2462	16.678	--	Pass

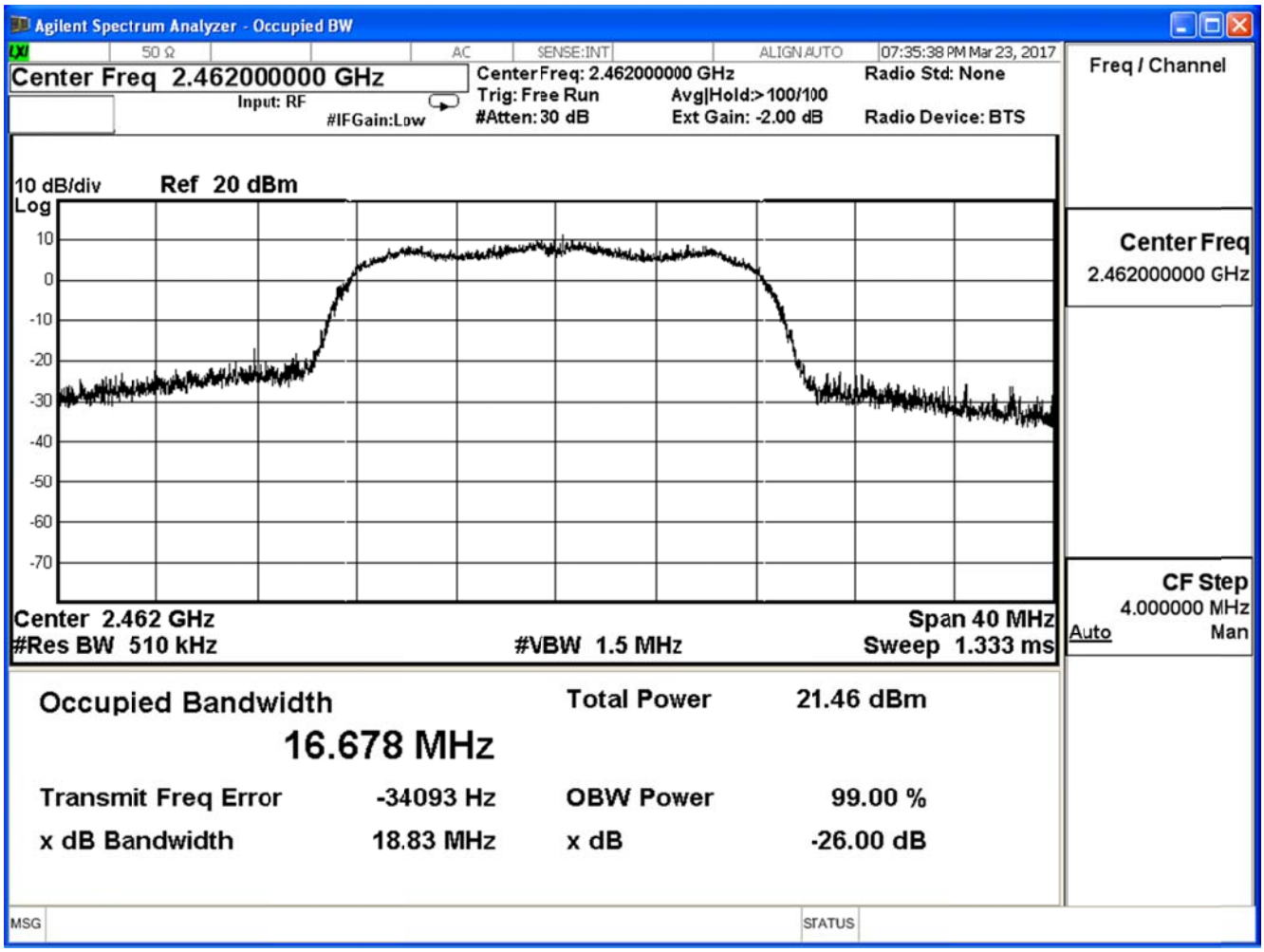
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:34:52 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.717 MHz
Total Power
21.86 dBm
Transmit Freq Error
-58597 Hz
OBW Power
99.00 %
x dB Bandwidth
18.99 MHz
x dB
-26.00 dB
MSG
STATUS

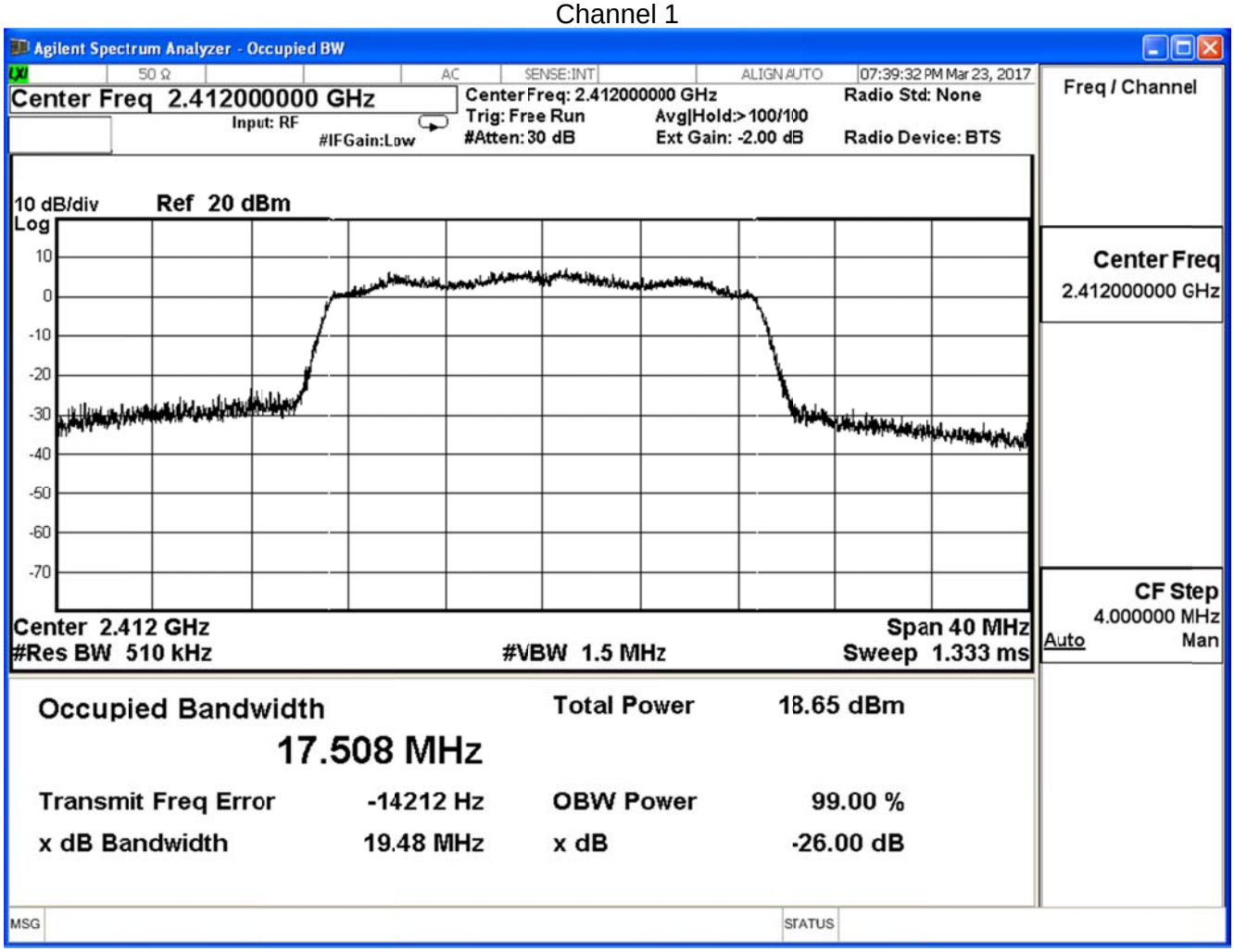
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:35:38 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
16.678 MHz
Total Power
21.46 dBm
Transmit Freq Error
-34093 Hz
OBW Power
99.00 %
x dB Bandwidth
18.83 MHz
x dB
-26.00 dB
MSG
STATUS

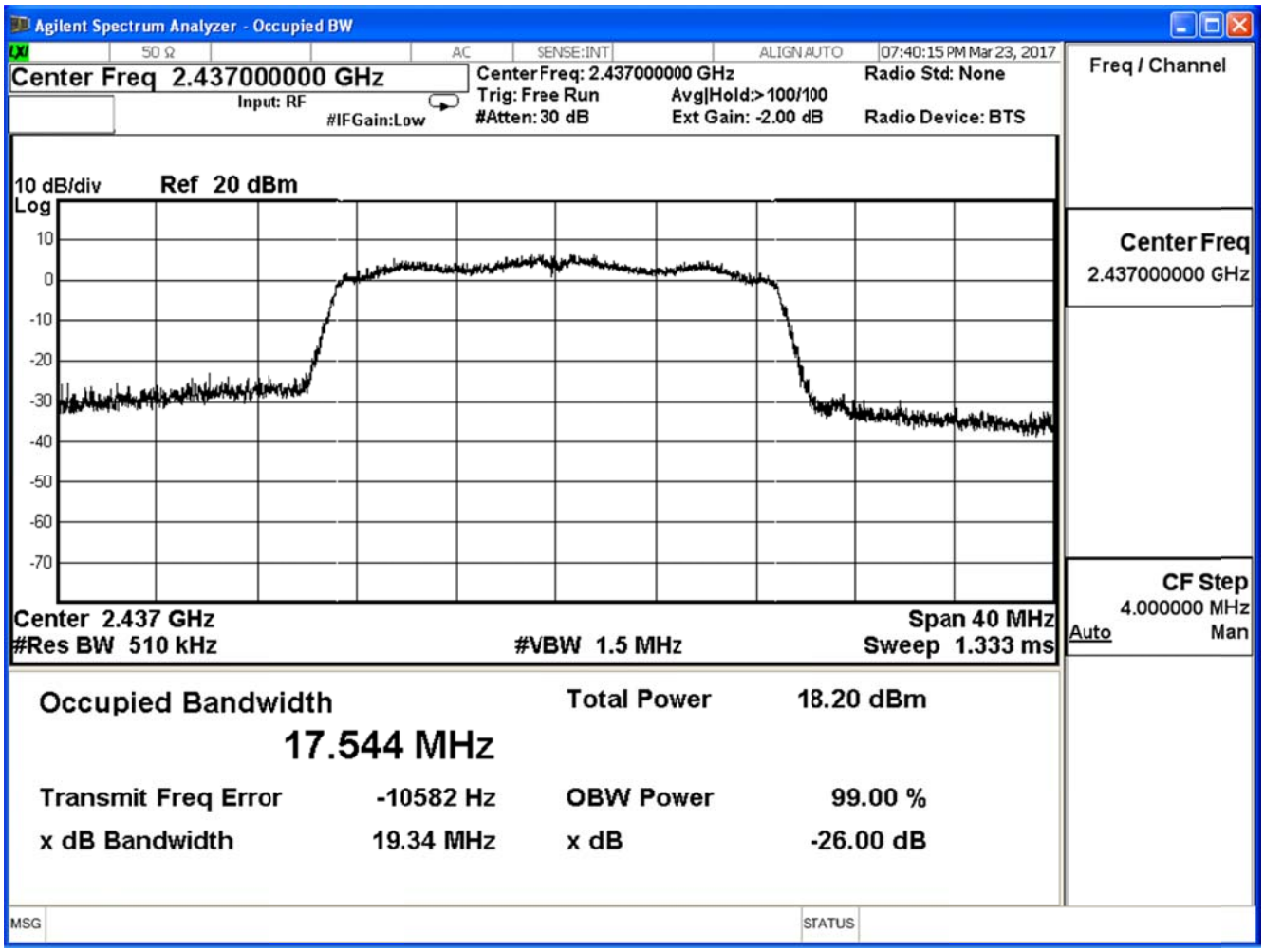
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level(MHz)	Limit (MHz)	Result
1	2412	17.508	--	Pass
6	2437	17.544	--	Pass
11	2462	17.511	--	Pass

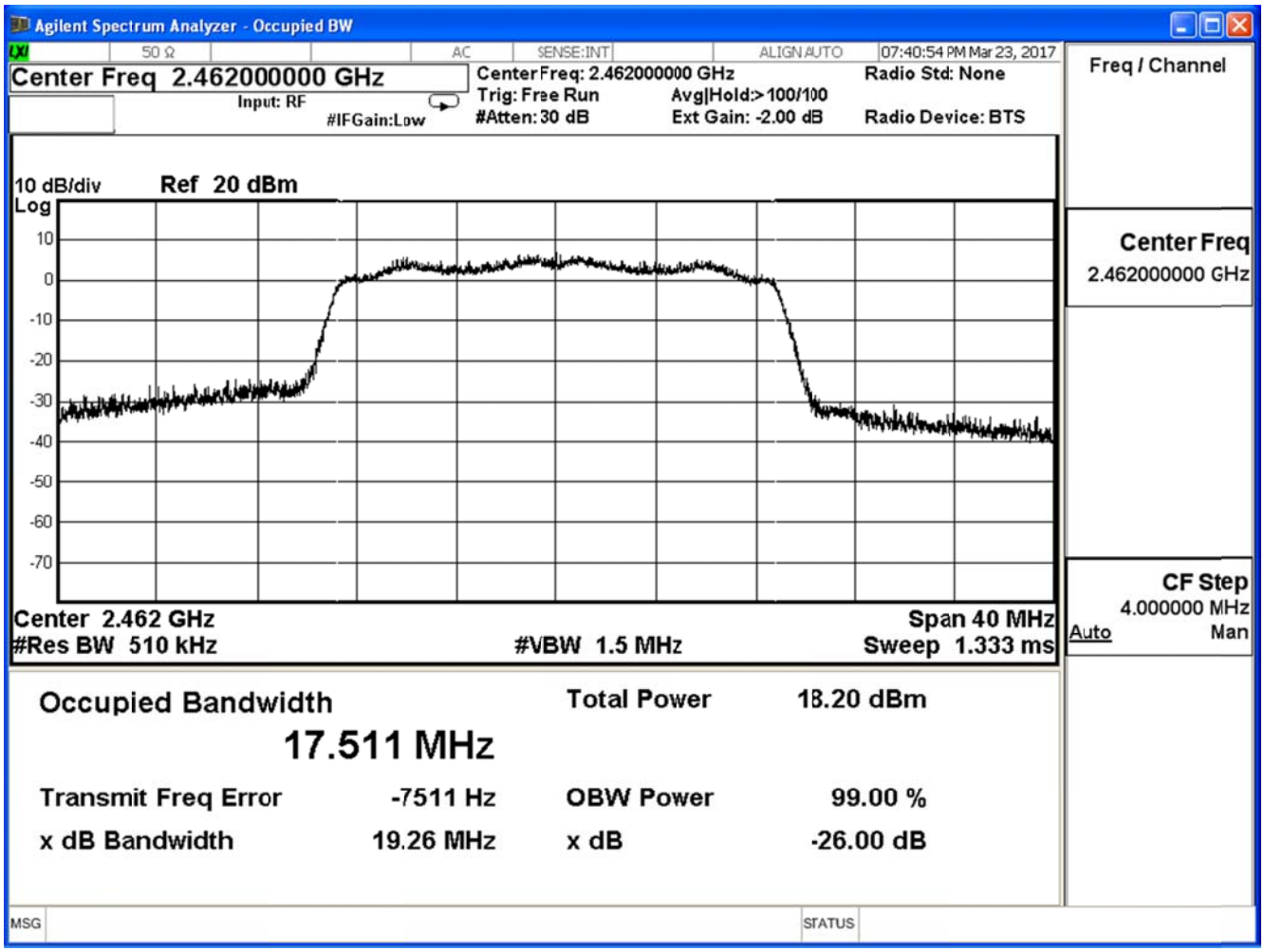
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:40:15 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.544 MHz
Total Power
18.20 dBm
Transmit Freq Error
-10582 Hz
OBW Power
99.00 %
x dB Bandwidth
19.34 MHz
x dB
-26.00 dB
MSG
STATUS

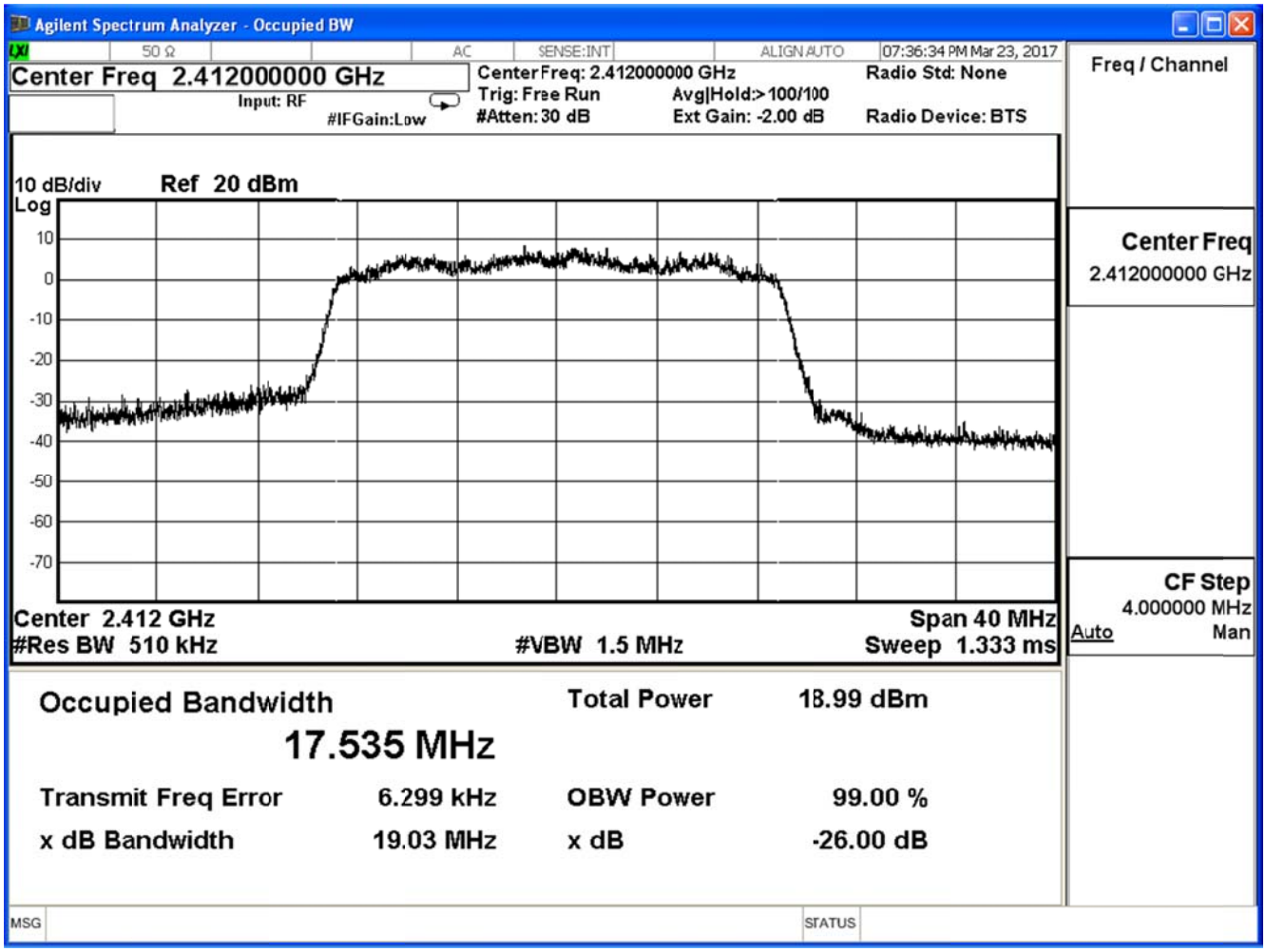
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:40:54 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.511 MHz
Total Power
18.20 dBm
Transmit Freq Error
-7511 Hz
OBW Power
99.00 %
x dB Bandwidth
19.26 MHz
x dB
-26.00 dB
MSG
STATUS

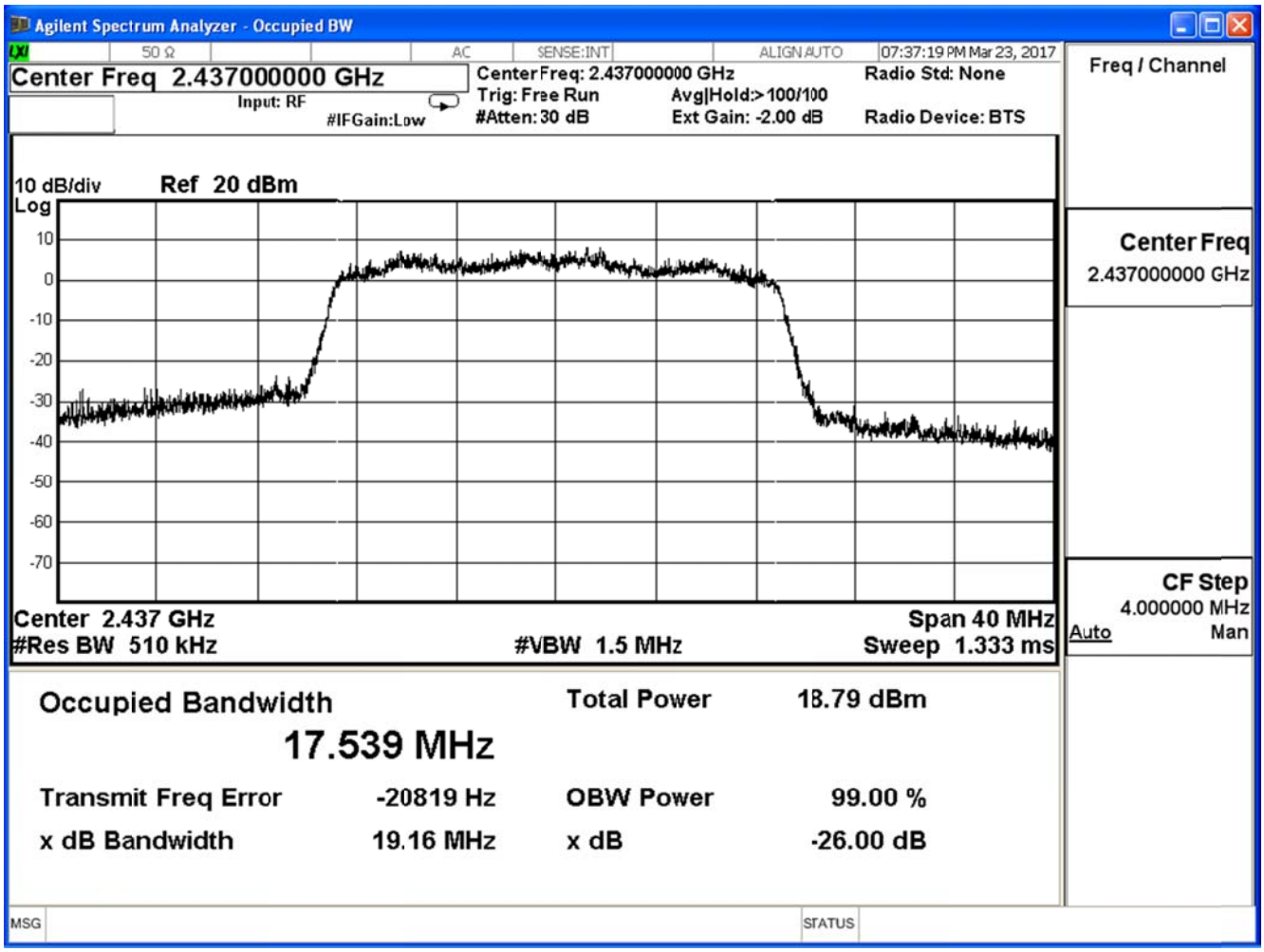
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
1	2412	17.535	--	Pass
6	2437	17.539	--	Pass
11	2462	17.529	--	Pass

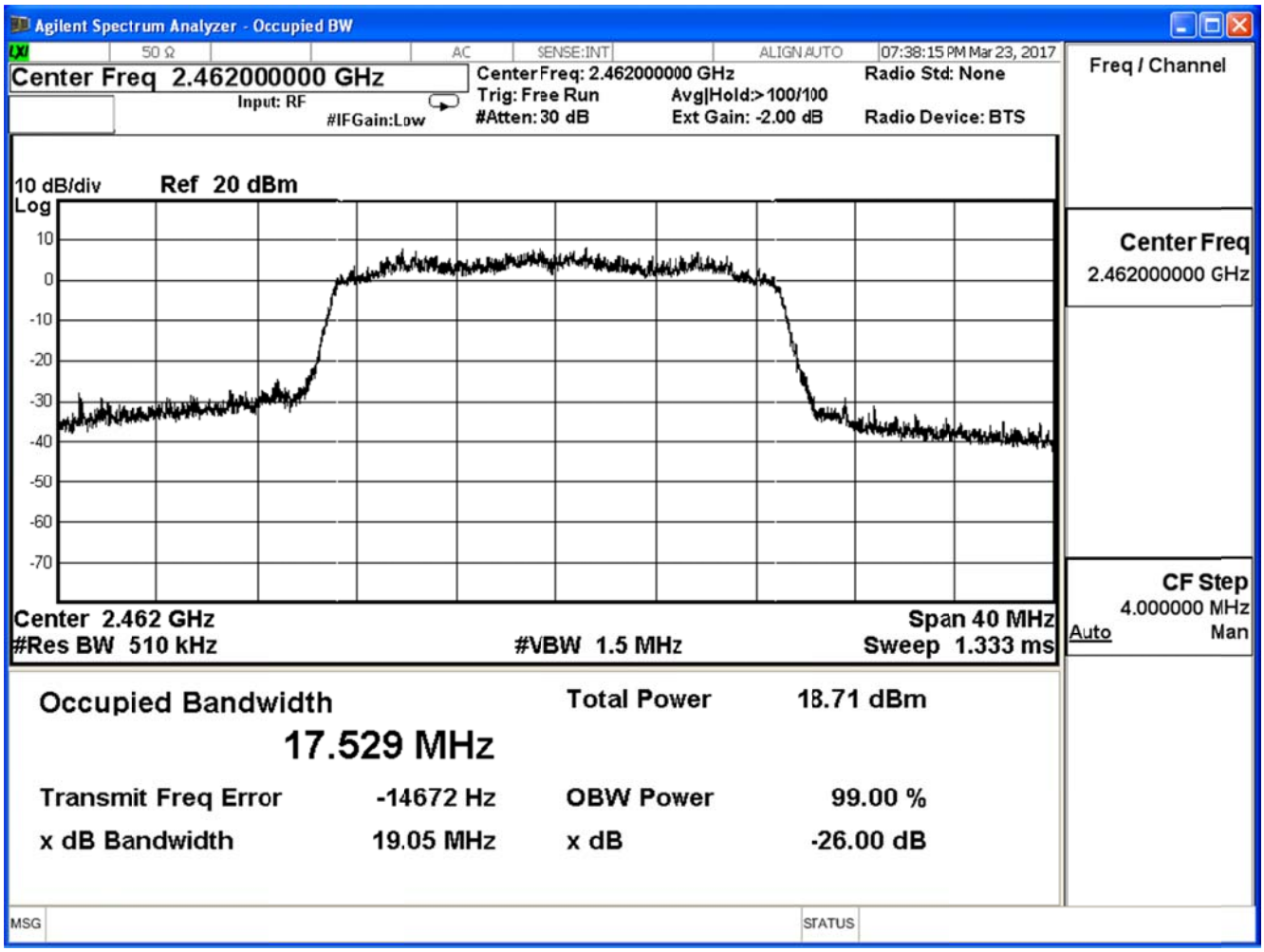
Channel 1



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:37:19 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.539 MHz
Total Power
18.79 dBm
Transmit Freq Error
-20819 Hz
OBW Power
99.00 %
x dB Bandwidth
19.16 MHz
x dB
-26.00 dB
MSG
STATUS

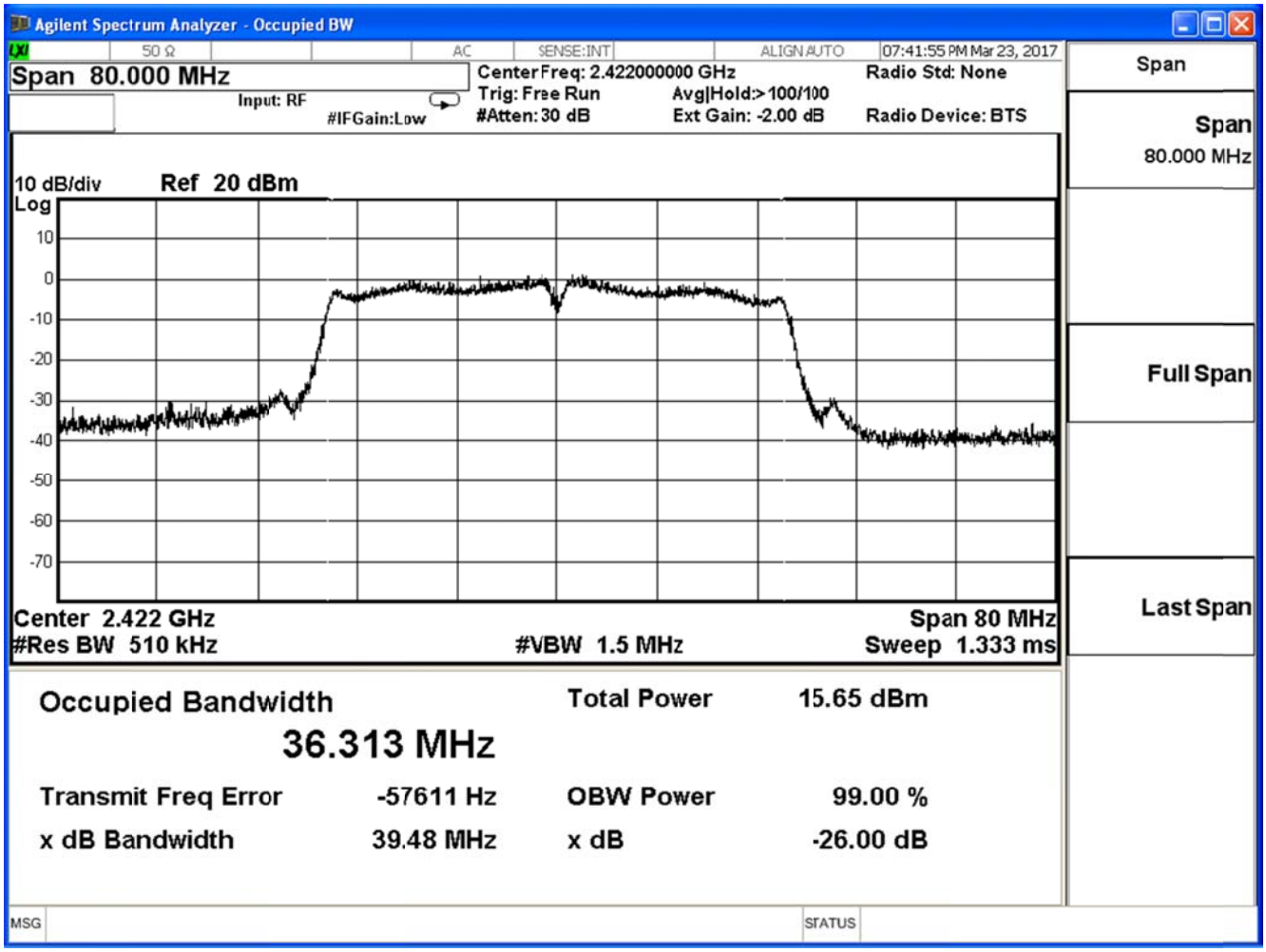
Channel 11


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:38:15 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
CF Step
4.000000 MHz
Auto
Man
Occupied Bandwidth
17.529 MHz
Total Power
18.71 dBm
Transmit Freq Error
-14672 Hz
OBW Power
99.00 %
x dB Bandwidth
19.05 MHz
x dB
-26.00 dB
MSG
STATUS

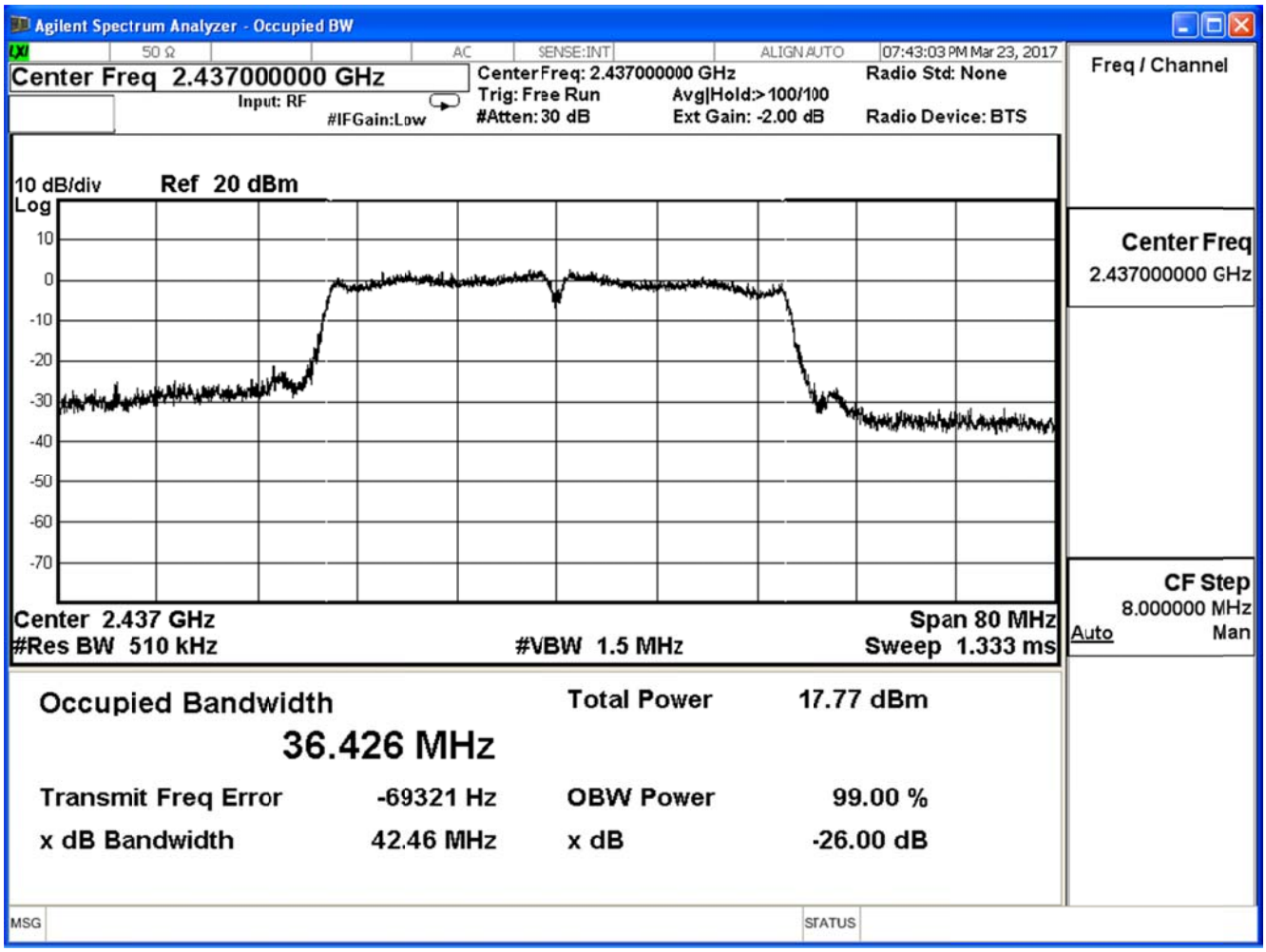
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.313	--	Pass
6	2437	36.426	--	Pass
9	2452	36.511	--	Pass

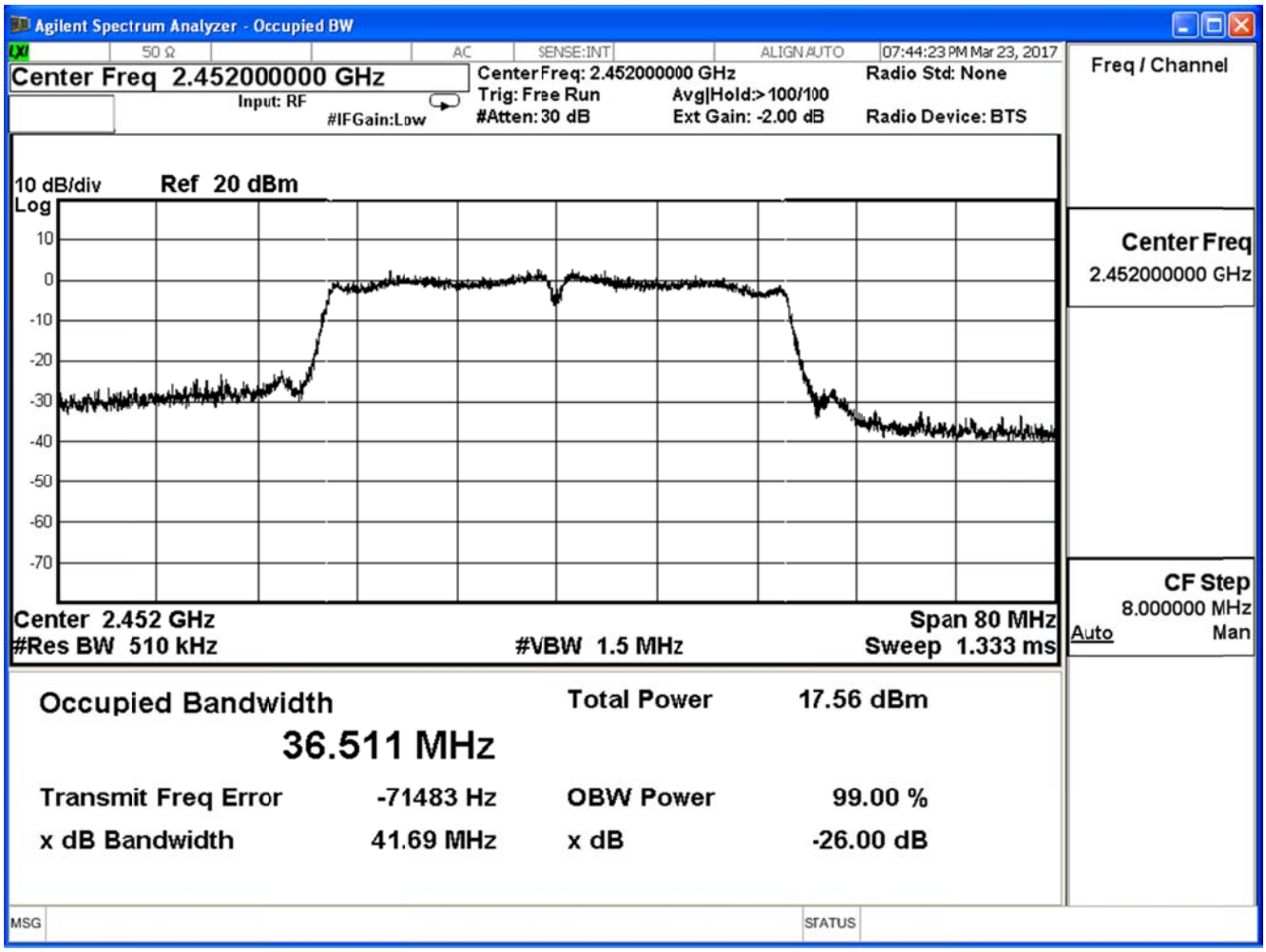
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:43:03 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.426 MHz
Total Power
17.77 dBm
Transmit Freq Error
-69321 Hz
OBW Power
99.00 %
x dB Bandwidth
42.46 MHz
x dB
-26.00 dB
MSG
STATUS

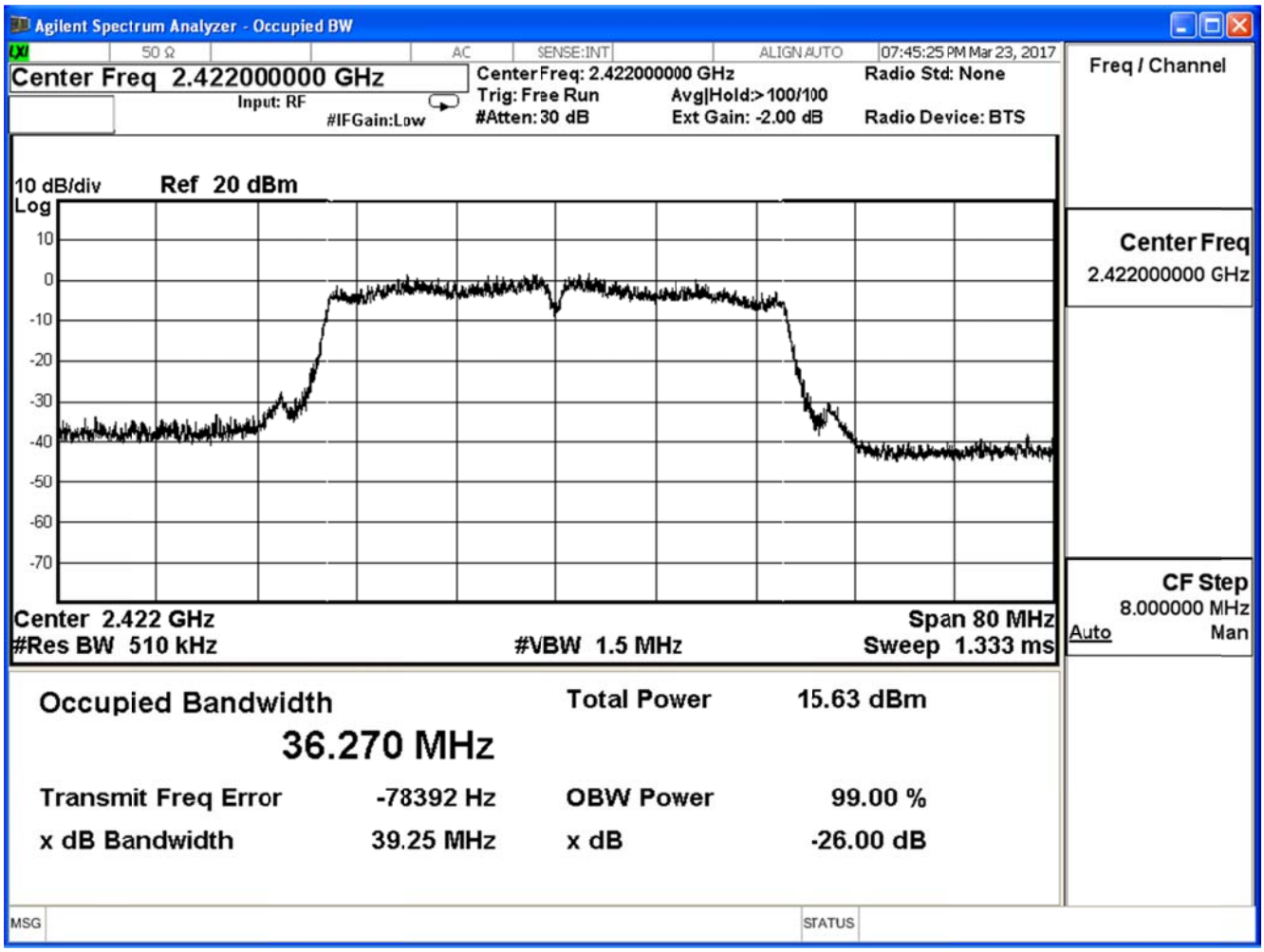
Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:44:23 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.511 MHz
Total Power
17.56 dBm
Transmit Freq Error
-71483 Hz
OBW Power
99.00 %
x dB Bandwidth
41.69 MHz
x dB
-26.00 dB
MSG
STATUS

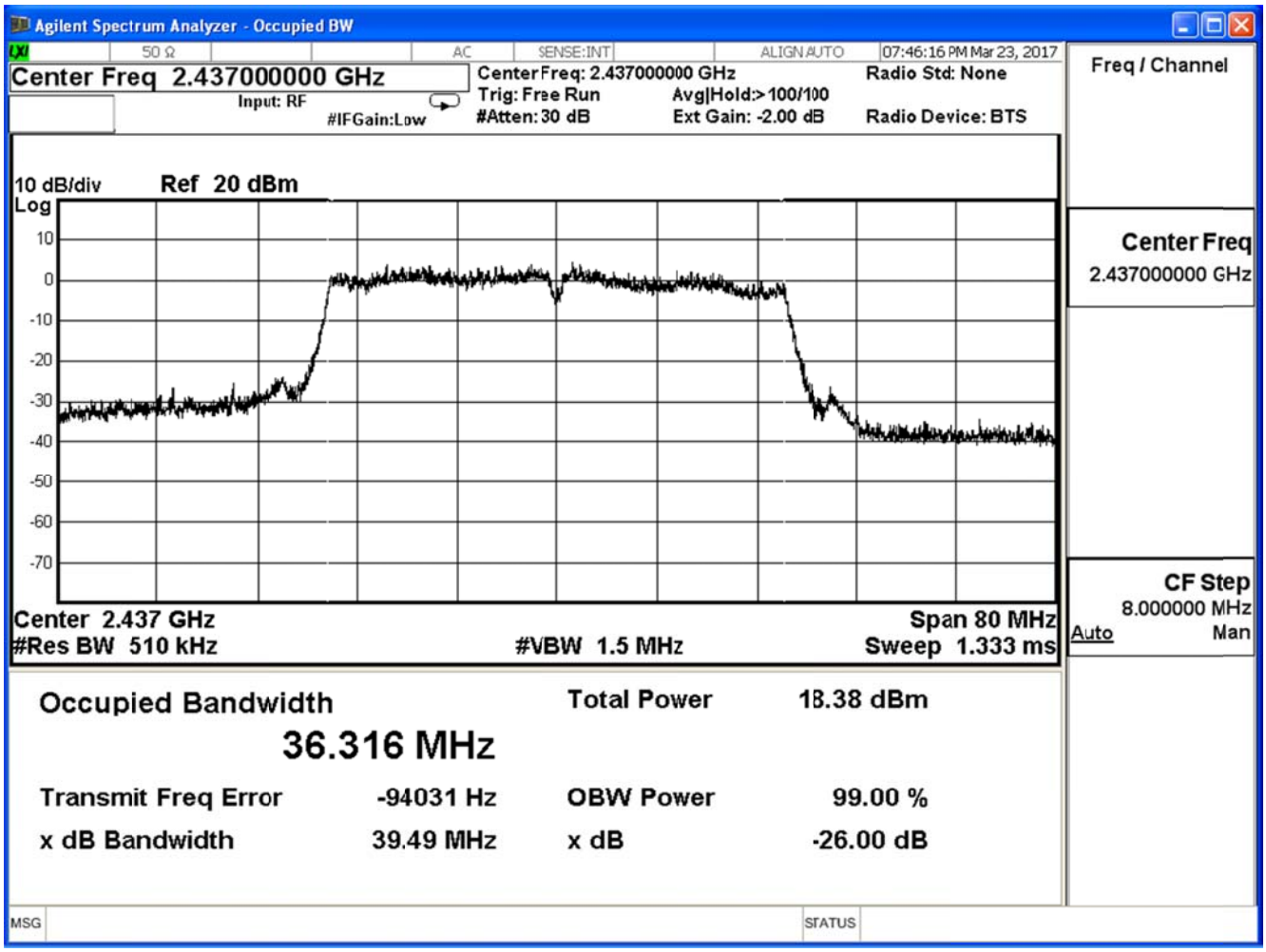
Product	UHD751-P		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
3	2422	36.270	--	Pass
6	2437	36.316	--	Pass
9	2452	36.396	--	Pass

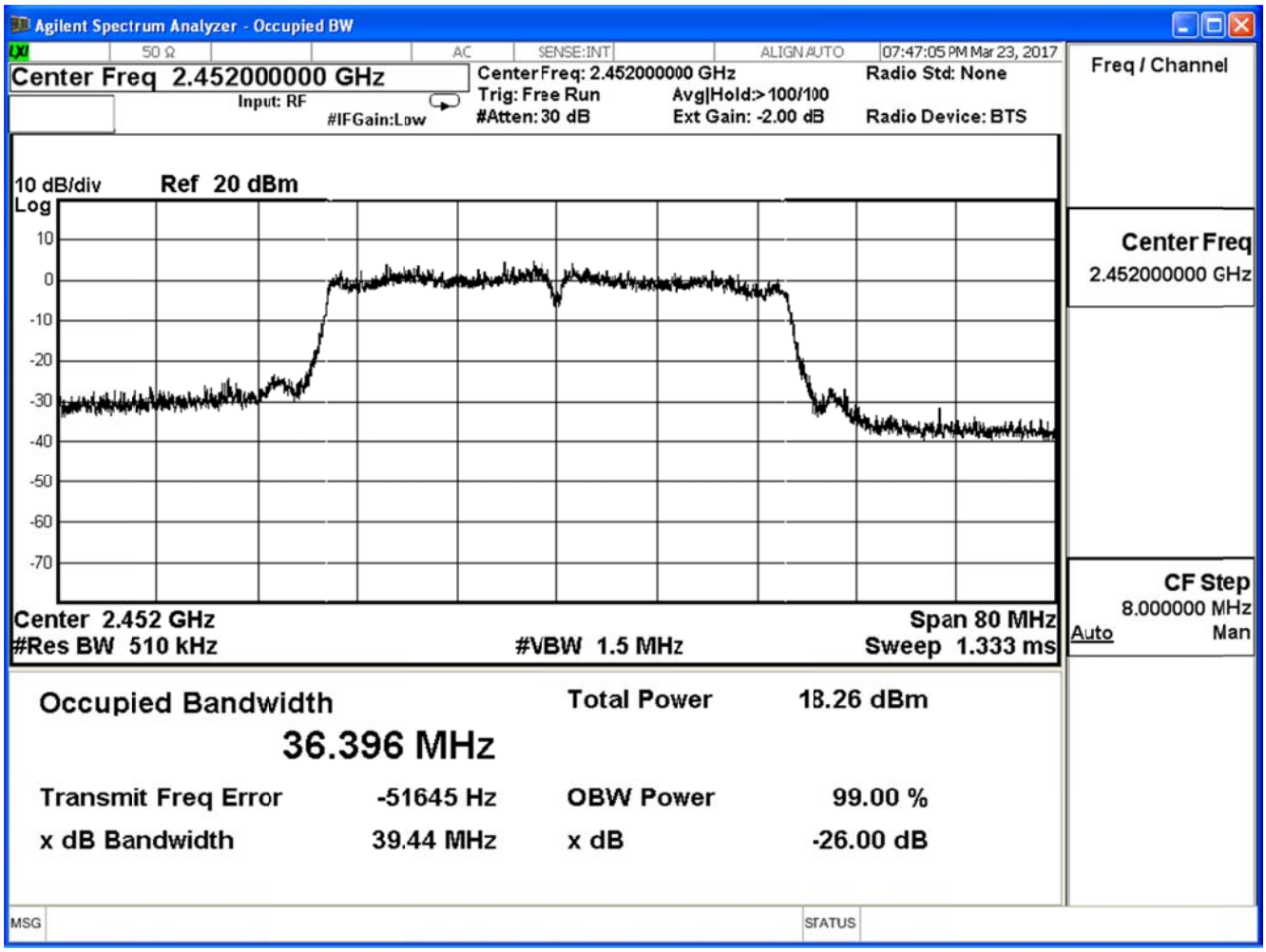
Channel 3



Channel 6


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:46:16 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.316 MHz
Total Power
18.38 dBm
Transmit Freq Error
-94031 Hz
OBW Power
99.00 %
x dB Bandwidth
39.49 MHz
x dB
-26.00 dB
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Occupied BW
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:47:05 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 20 dBm
10
0
-10
-20
-30
-40
-50
-60
-70
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
36.396 MHz
Total Power
18.26 dBm
Transmit Freq Error
-51645 Hz
OBW Power
99.00 %
x dB Bandwidth
39.44 MHz
x dB
-26.00 dB
MSG
STATUS

9. Power Density

9.1. Test Equipment

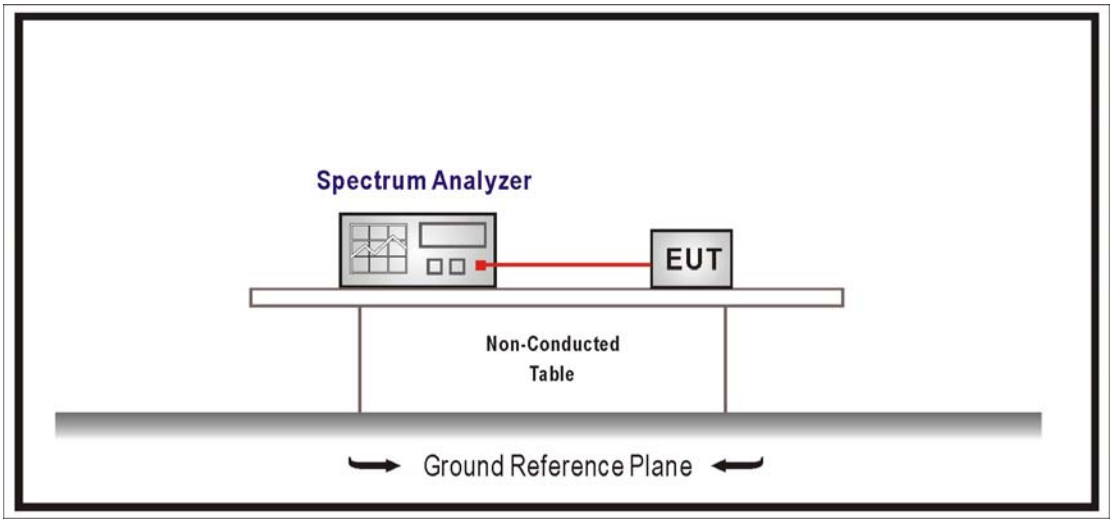
The following test equipment is used during the test:

Power Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

9.2. Test Setup



9.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.4. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB558074 D01 V04 for compliance to FCC 47CFR 15.247 requirements.
Set 3KHz ≦RBW≦100 kHz, Set VBW≧3xRBW, Sweep time=Auto, Set Peak detector.

9.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2015

9.6. Uncertainty

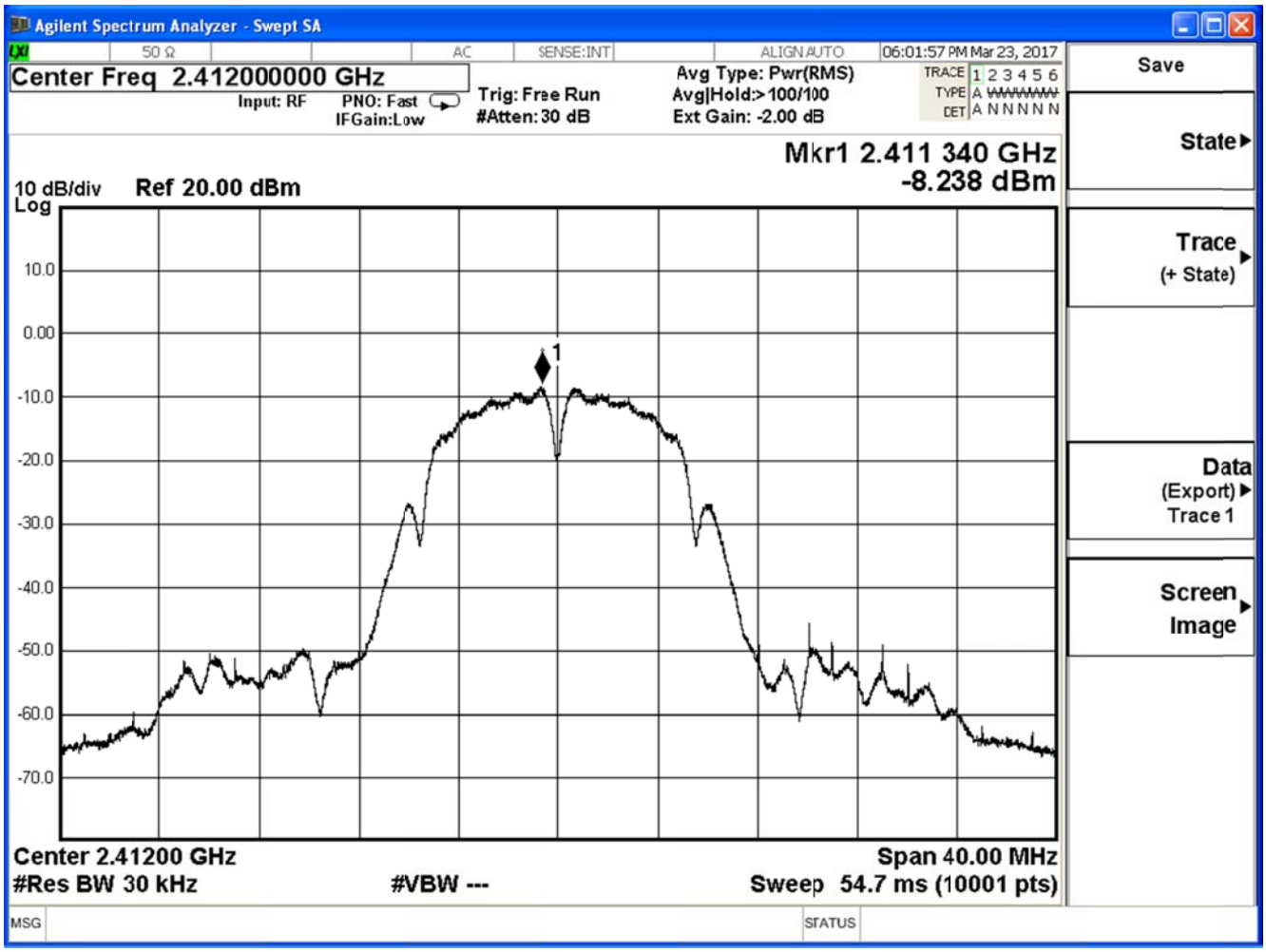
The measurement uncertainty is defined as ±1.27dB.

9.7. Test Result

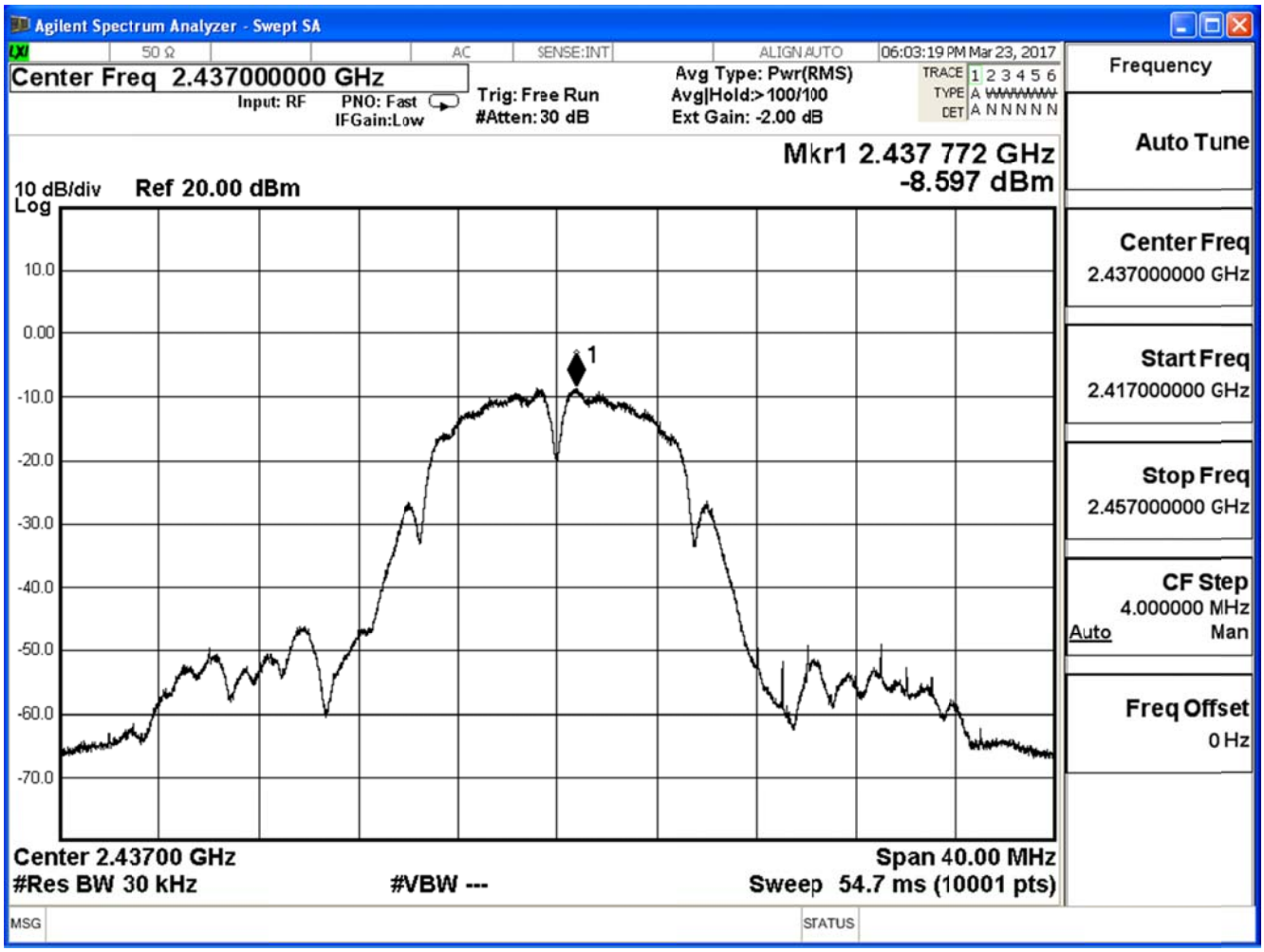
Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.238	≦8	Pass
6	2437	-8.597	≦8	Pass
11	2462	-8.665	≦8	Pass

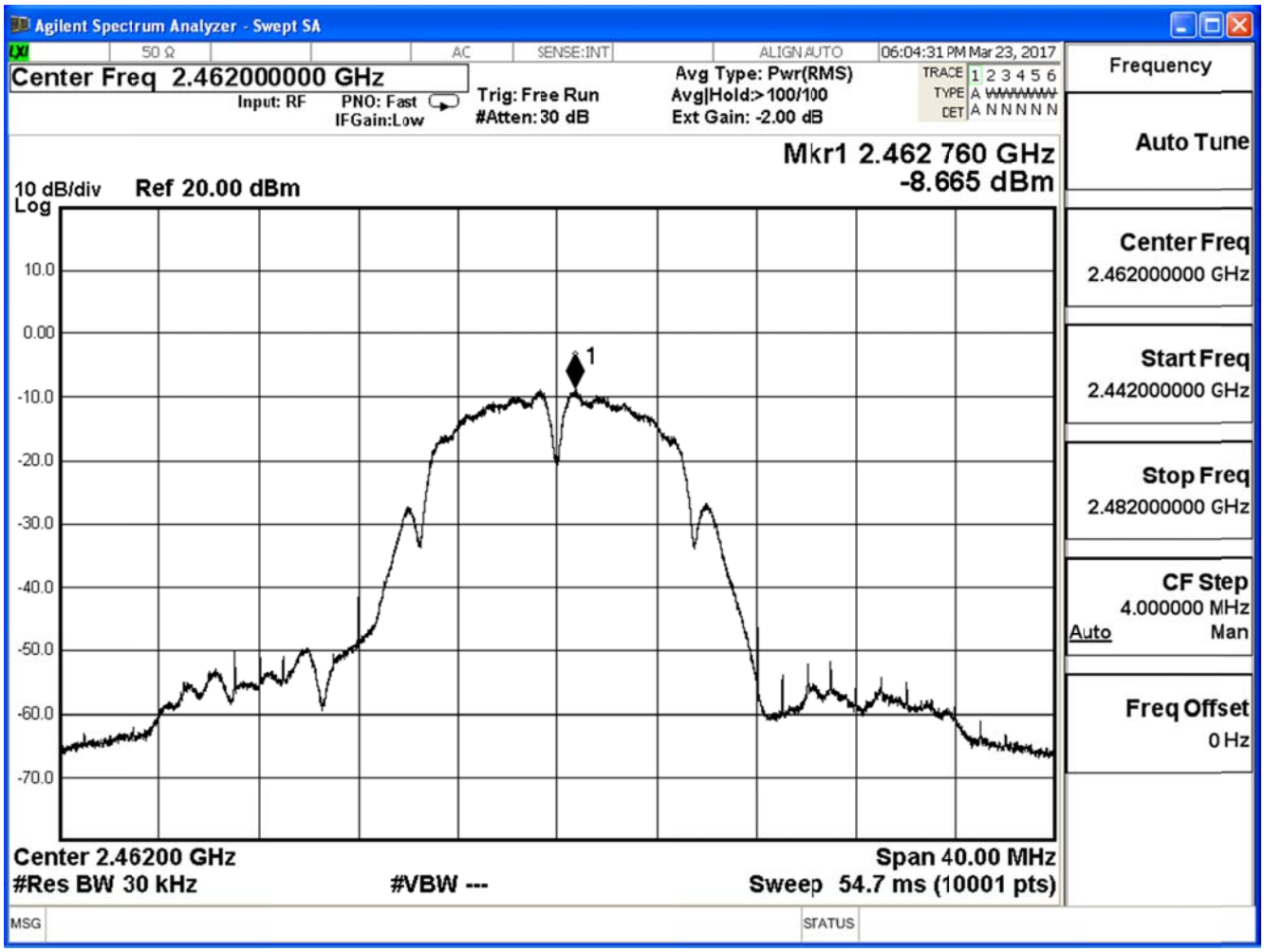
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:03:19 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 772 GHz
-8.597 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

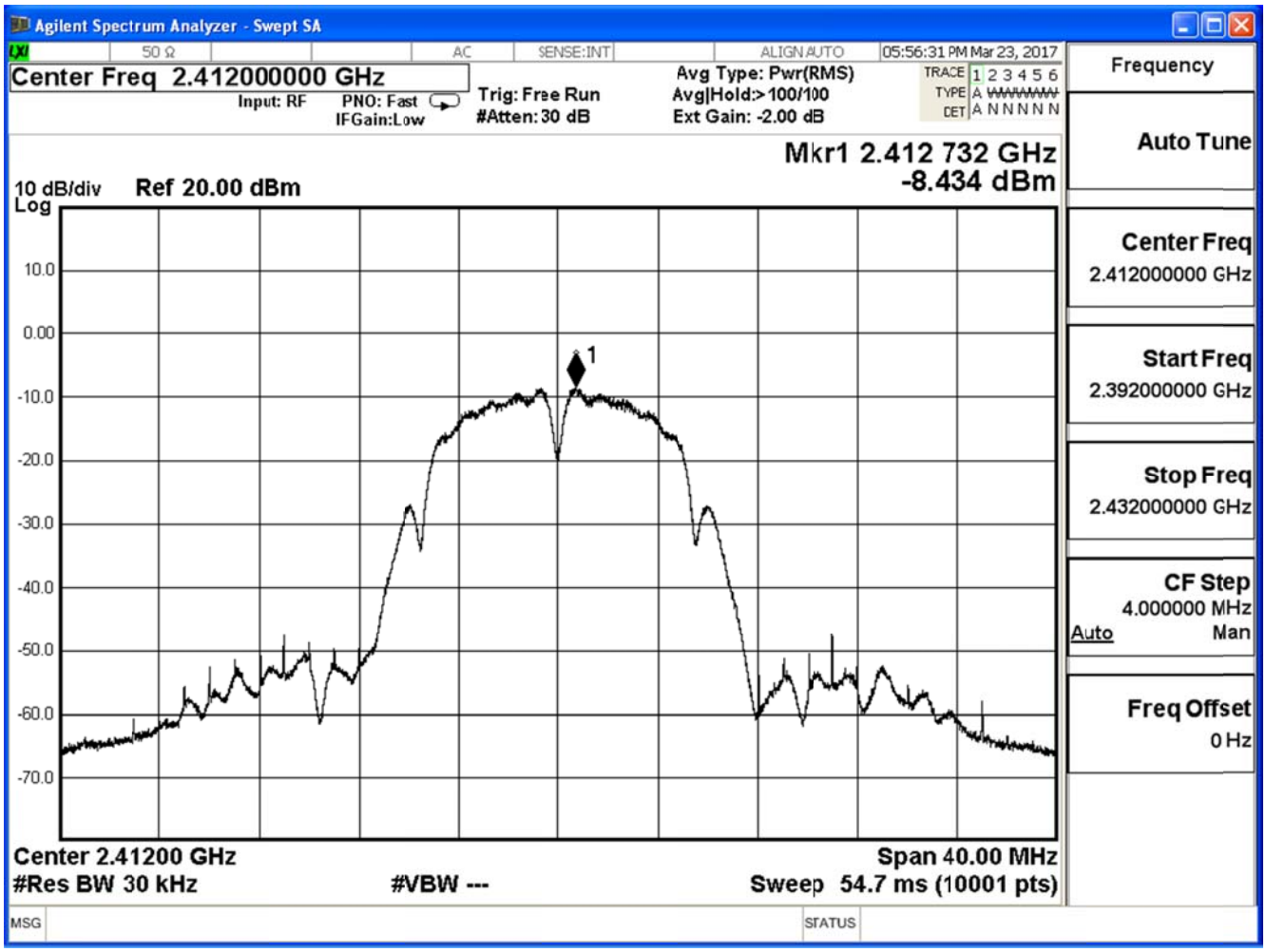
Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:04:31 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.462 760 GHz
-8.665 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

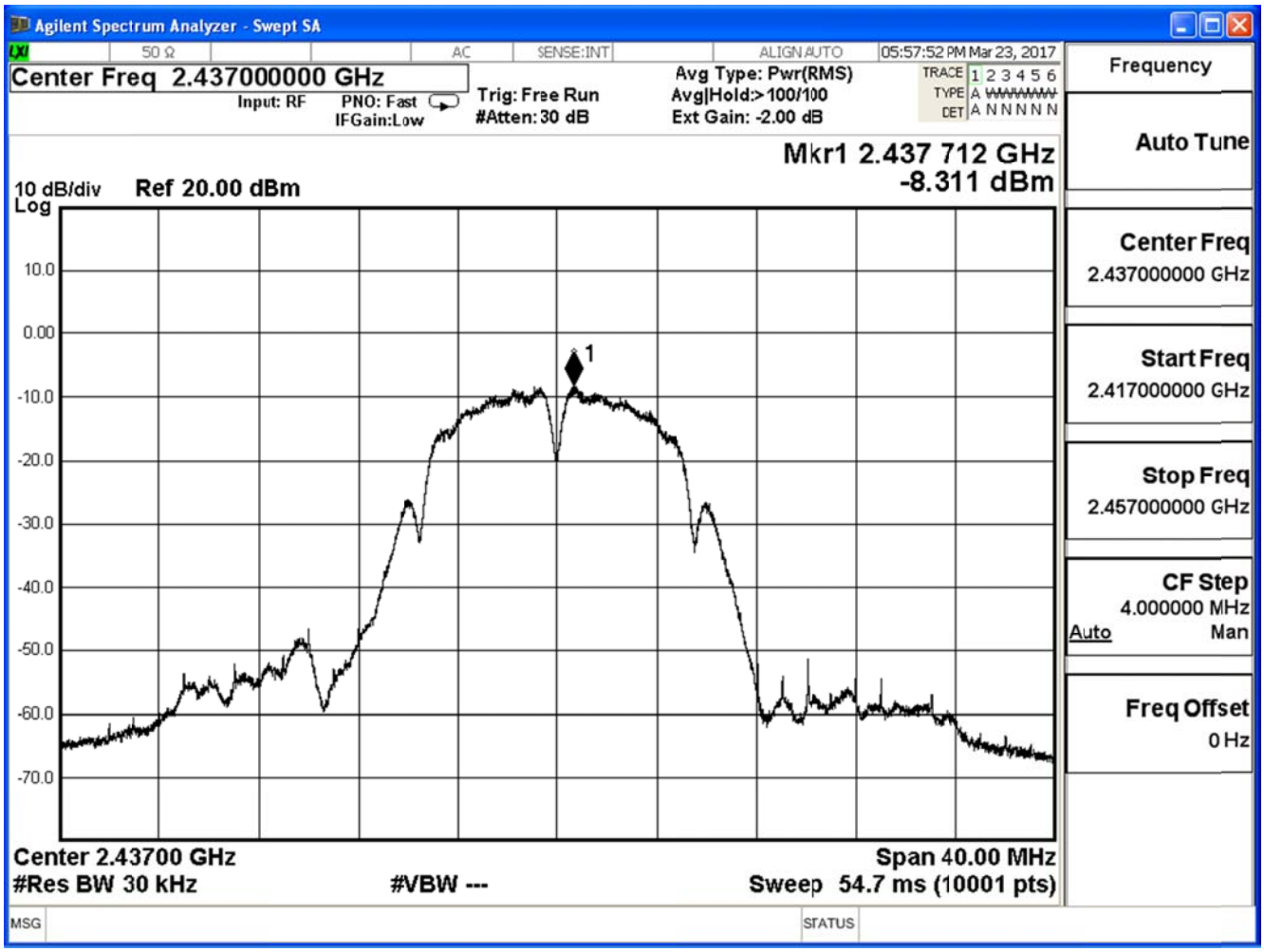
Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-8.434	≦8	Pass
6	2437	-8.311	≦8	Pass
11	2462	-8.549	≦8	Pass

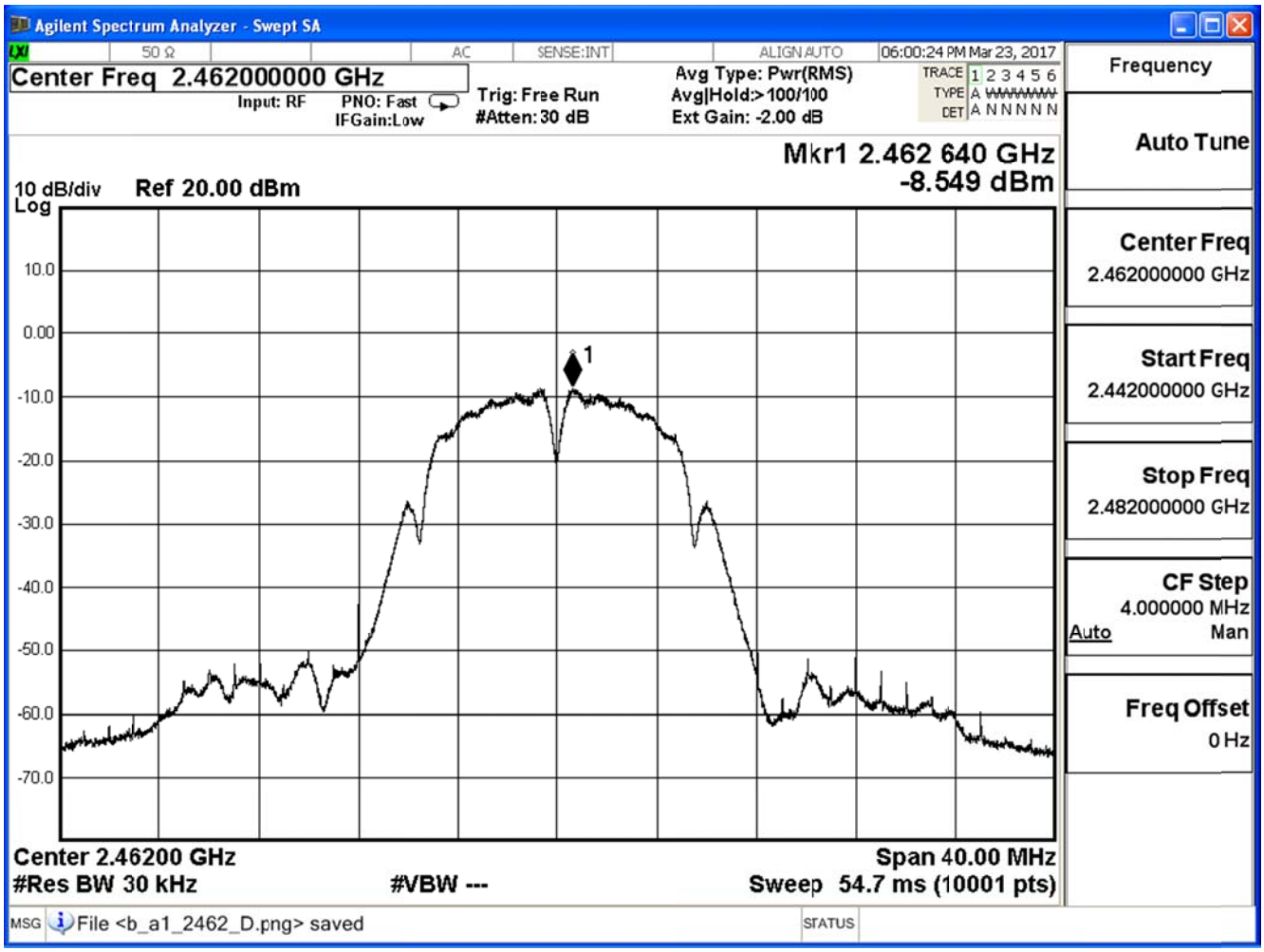
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:57:52 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 712 GHz
-8.311 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

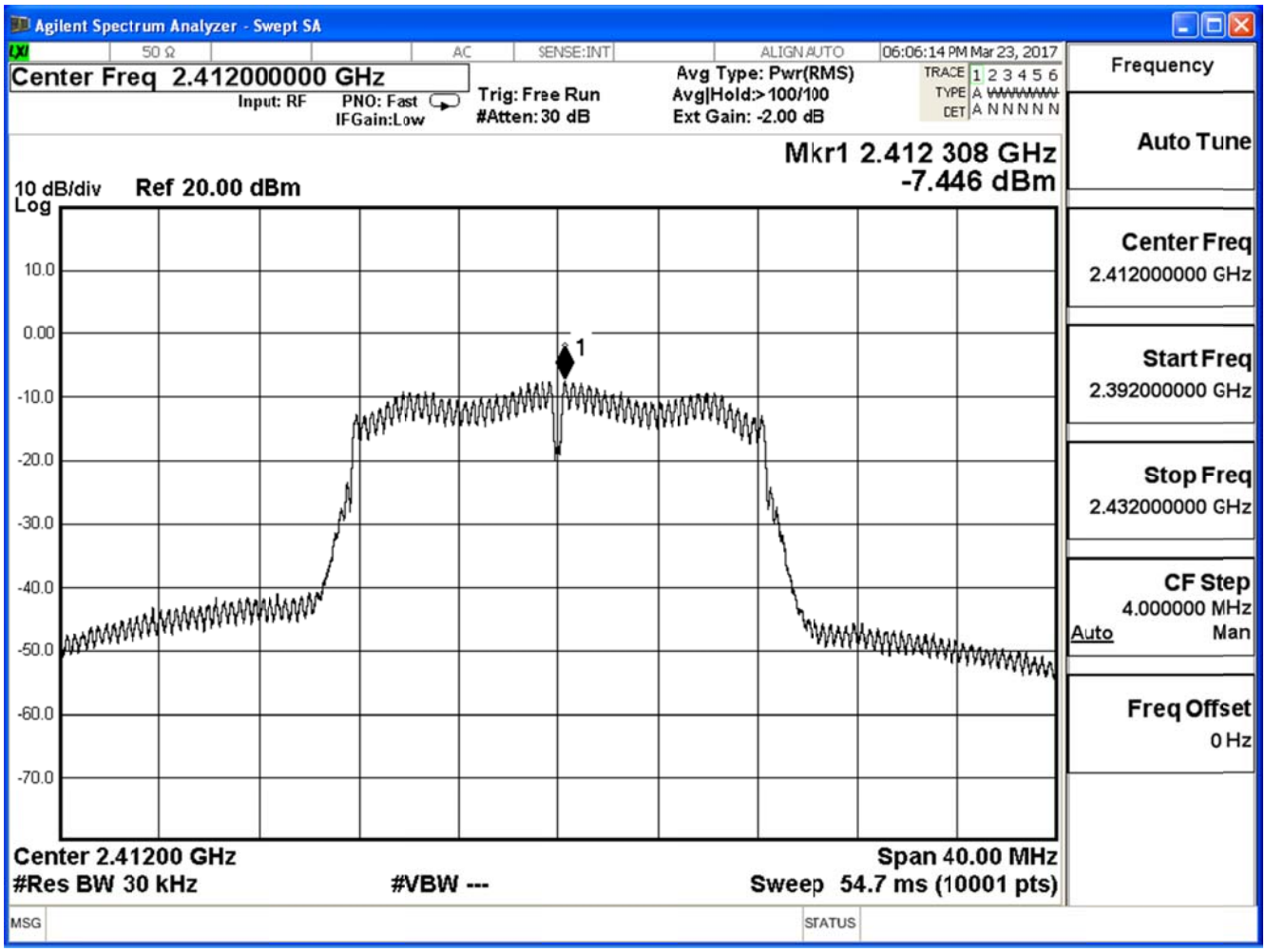
Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:00:24 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.462 640 GHz
-8.549 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
File <b_a1_2462_D.png> saved
STATUS
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

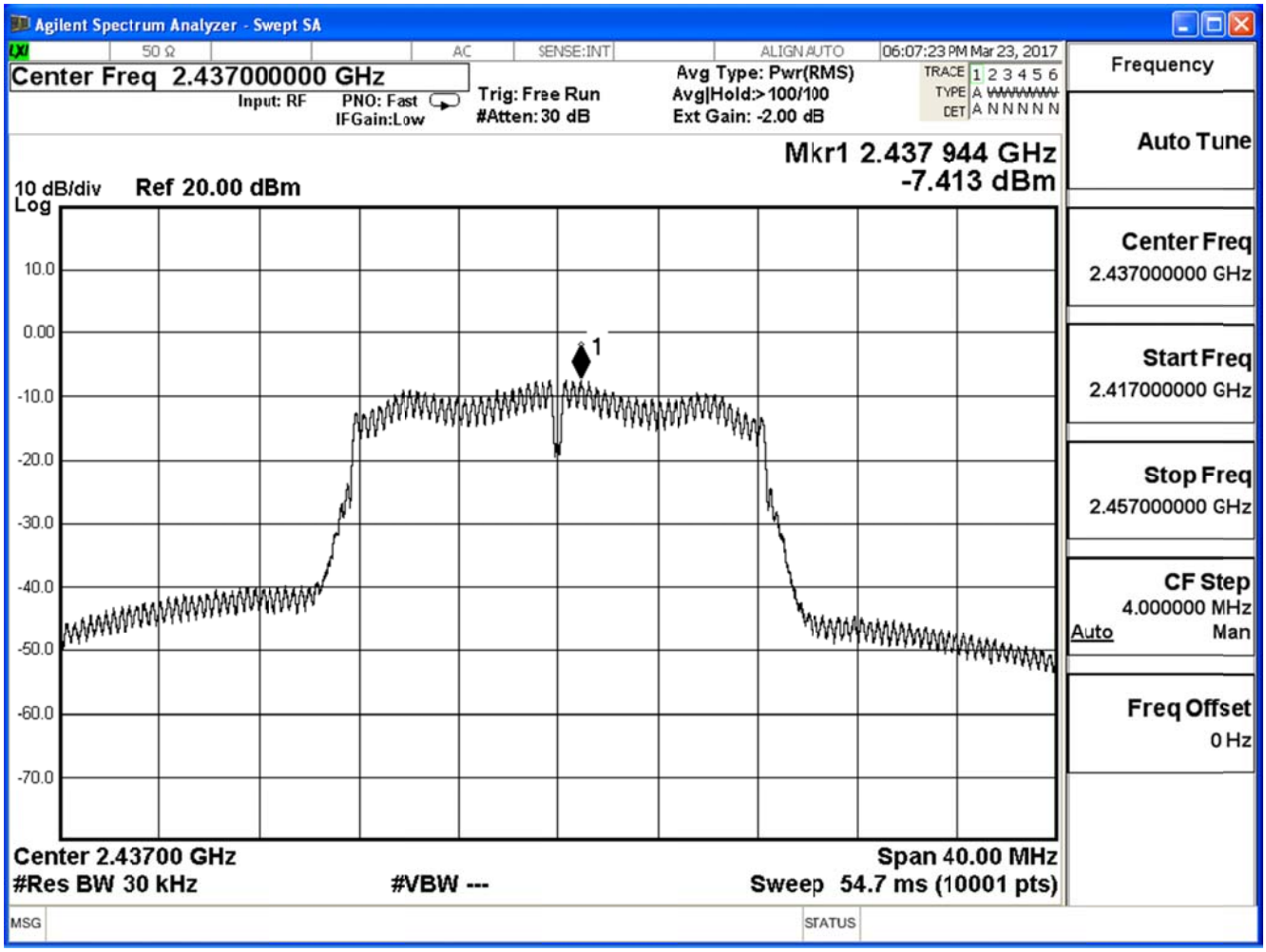
Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.446	≦8	Pass
6	2437	-7.413	≦8	Pass
11	2462	-7.813	≦8	Pass

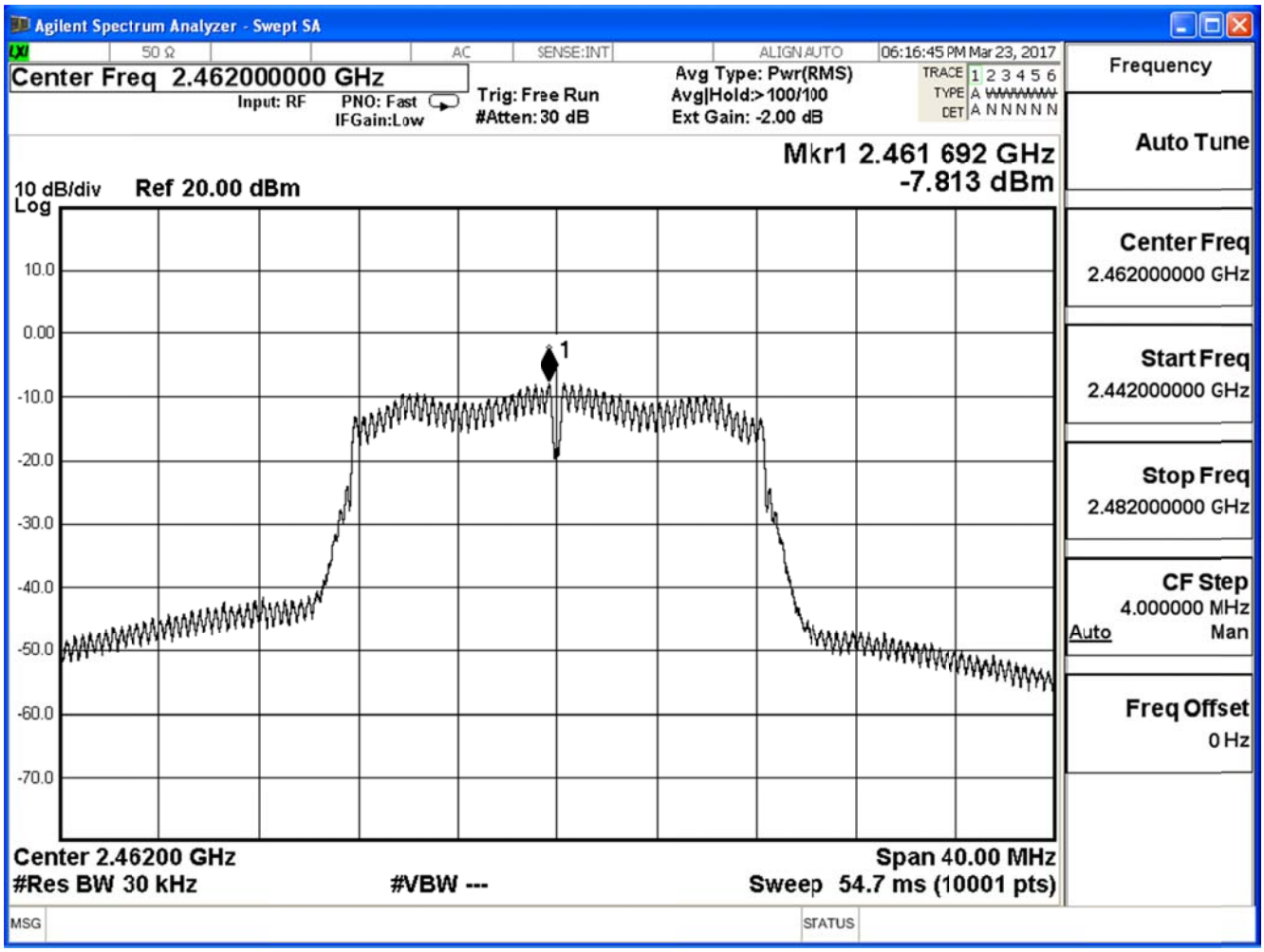
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:07:23 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 944 GHz
-7.413 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

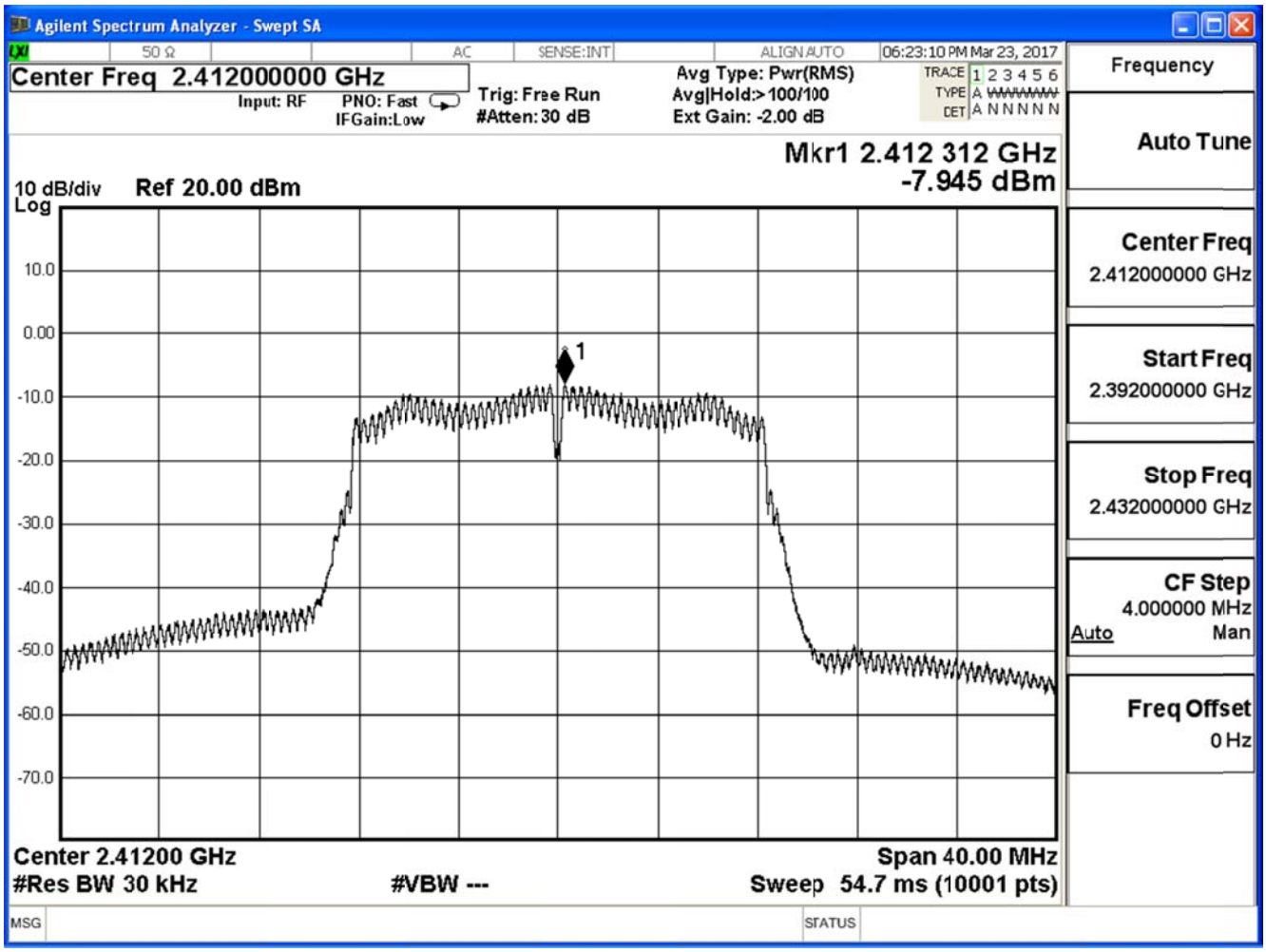
Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:16:45 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.461 692 GHz
-7.813 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

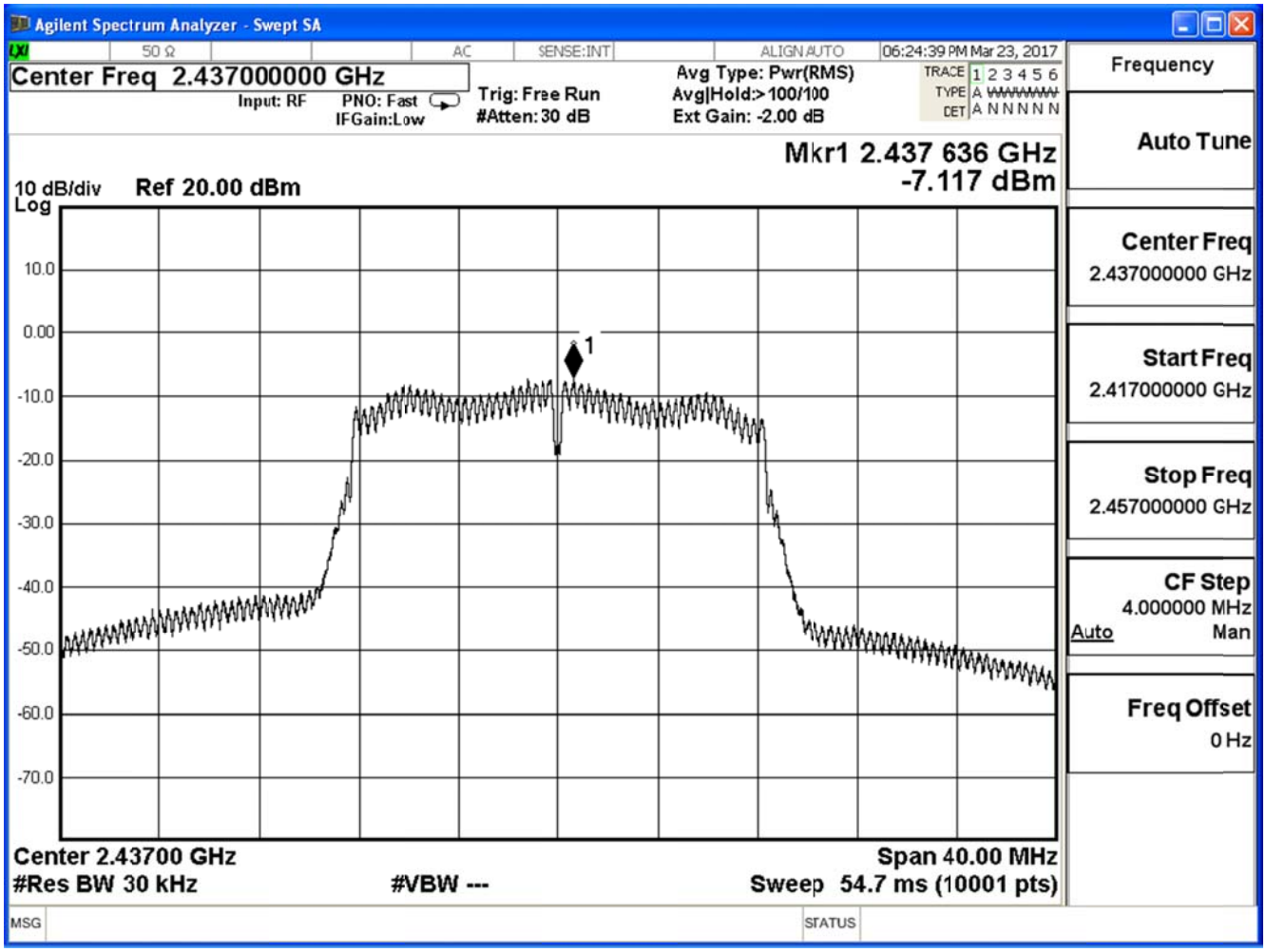
Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 1: Tx_SISO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.945	≦8	Pass
6	2437	-7.117	≦8	Pass
11	2462	-7.859	≦8	Pass

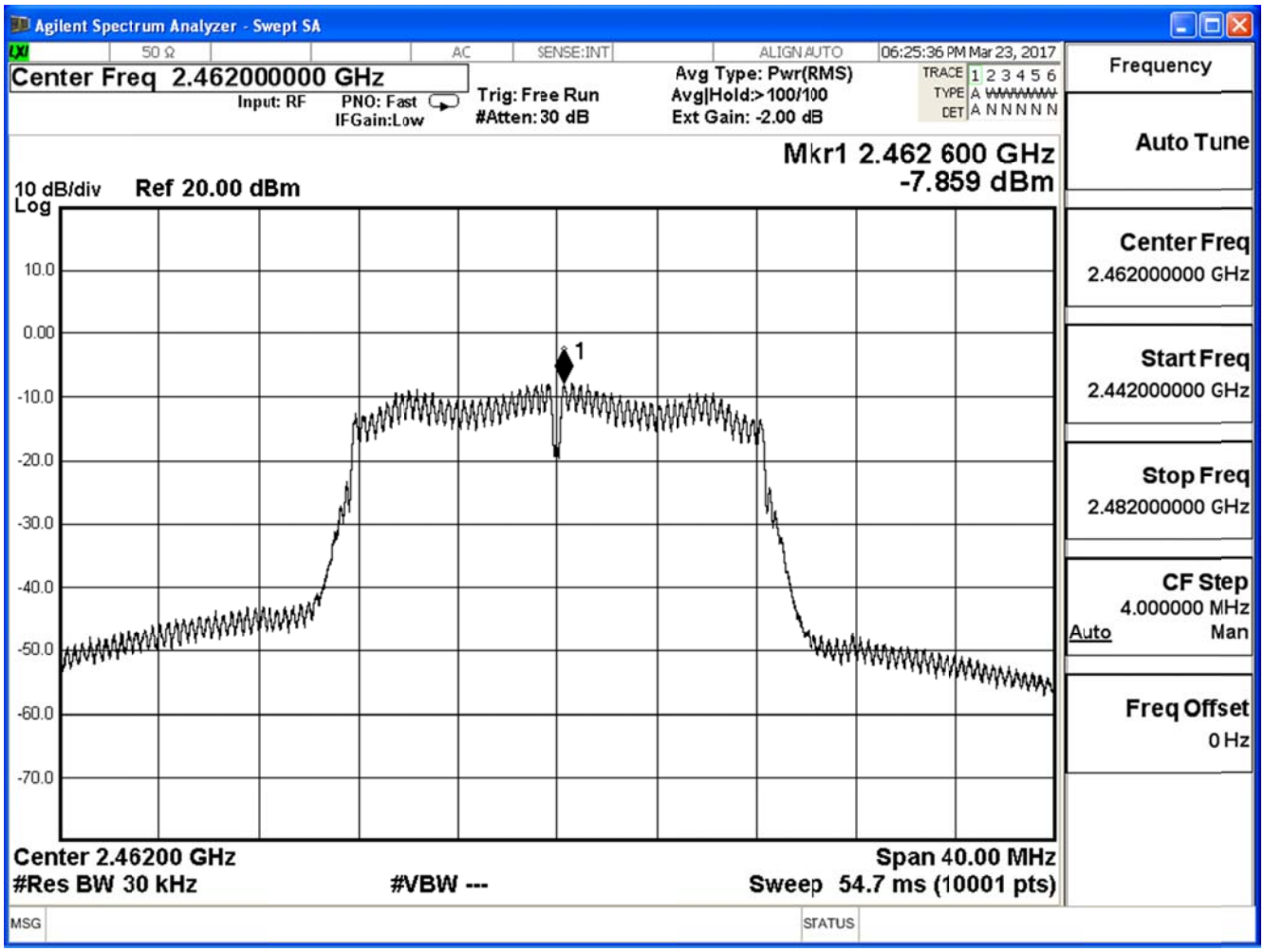
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:24:39 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 636 GHz
-7.117 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 11

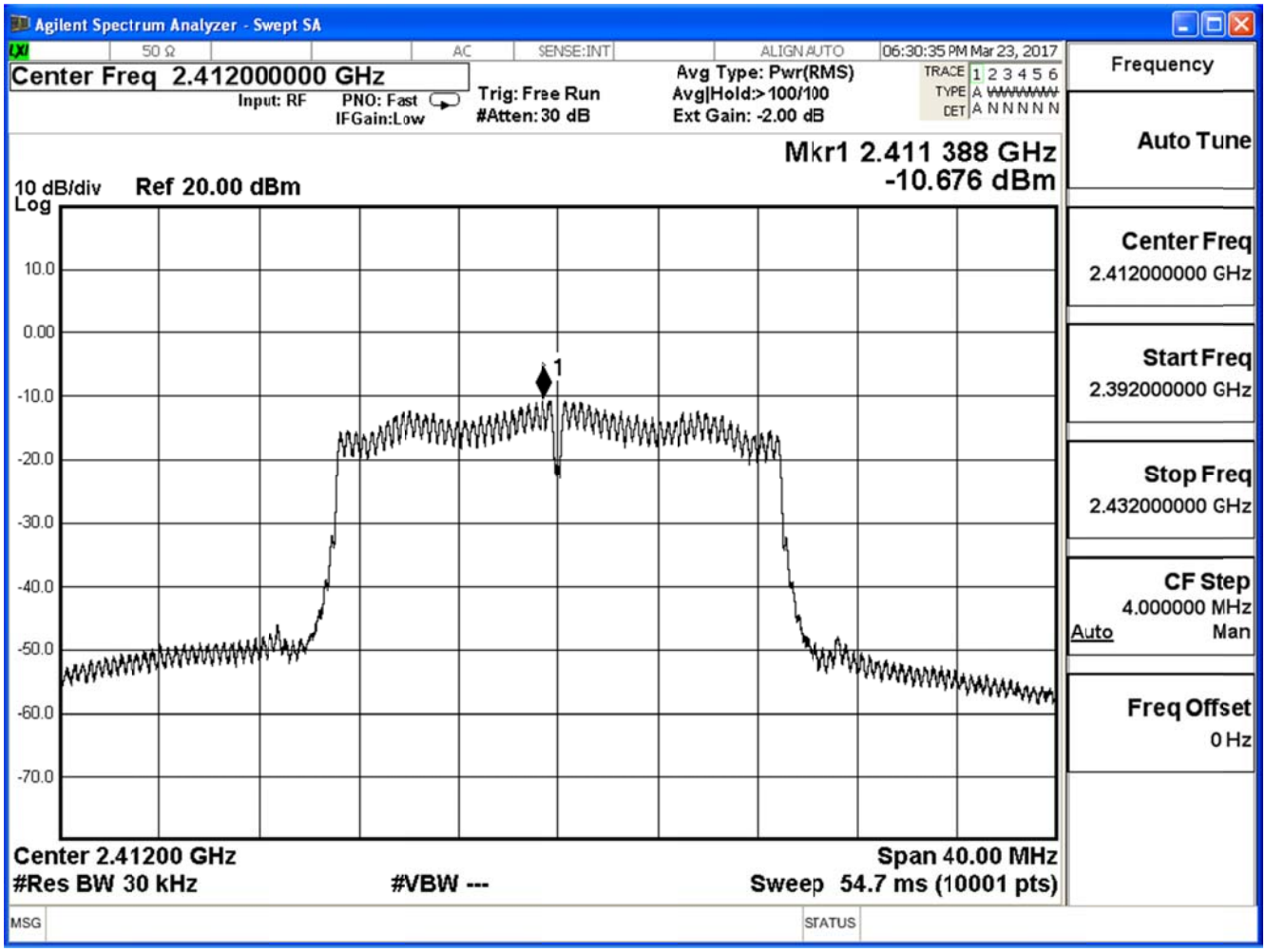

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:25:36 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.462 600 GHz
-7.859 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

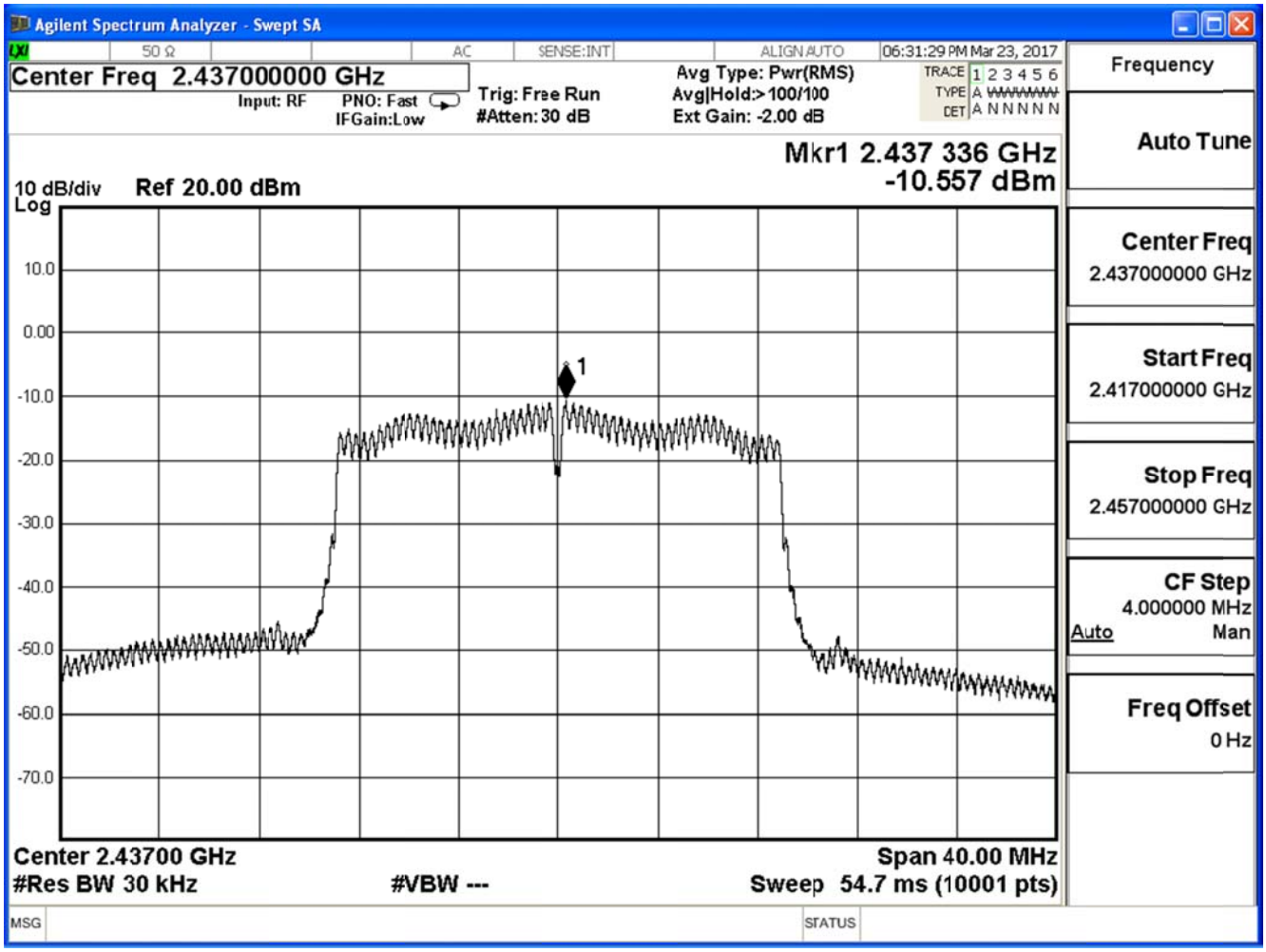
IEEE802.11n 20MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-10.676	≦6.49	Pass
6	2437	-10.557	≦6.49	Pass
11	2462	-10.771	≦6.49	Pass

Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi
Limit = 8 dBm -(7.51-6)= 6.49 dBm

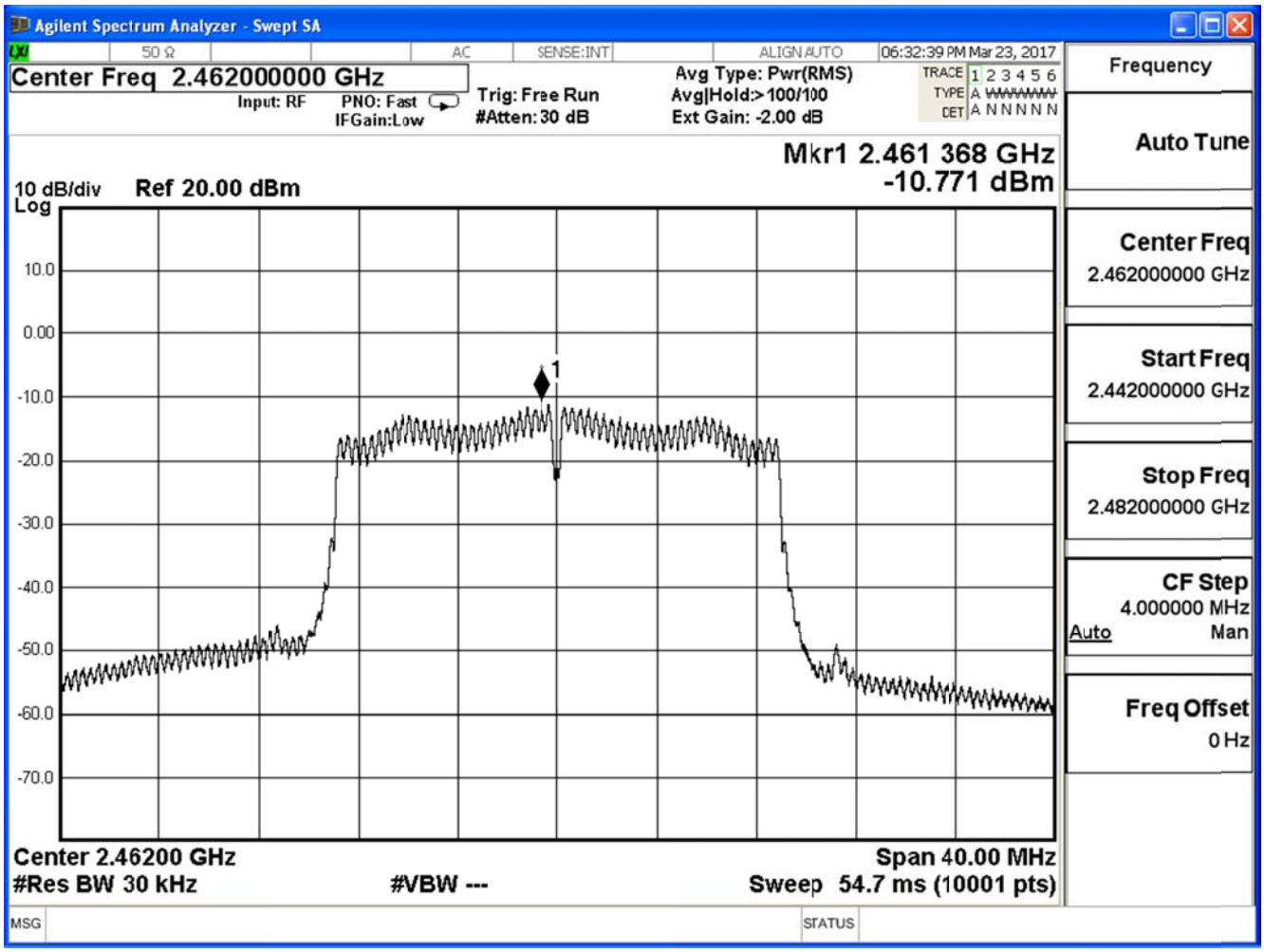
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:31:29 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 336 GHz
-10.557 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 11

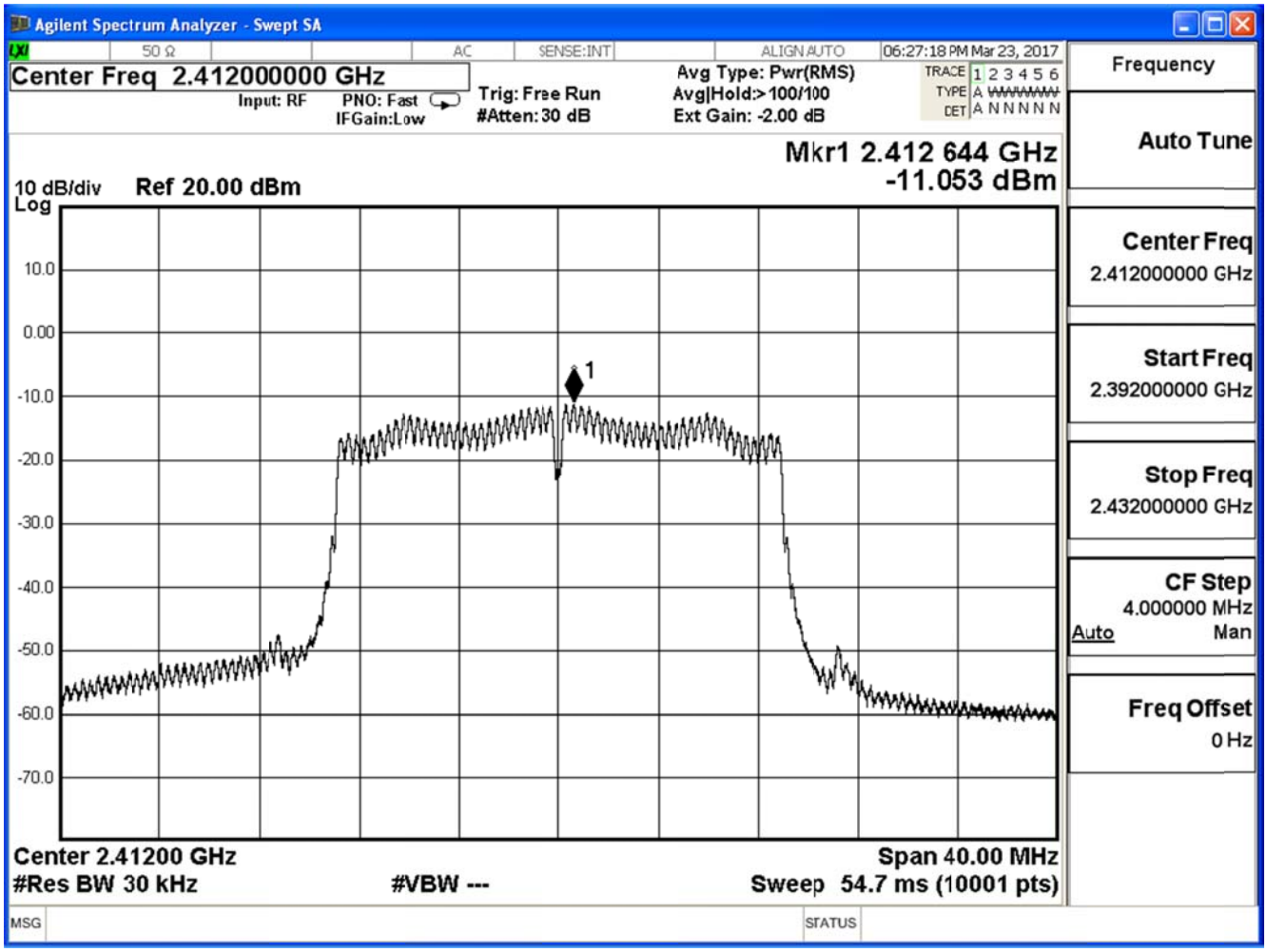

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:32:39 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.461 368 GHz
-10.771 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

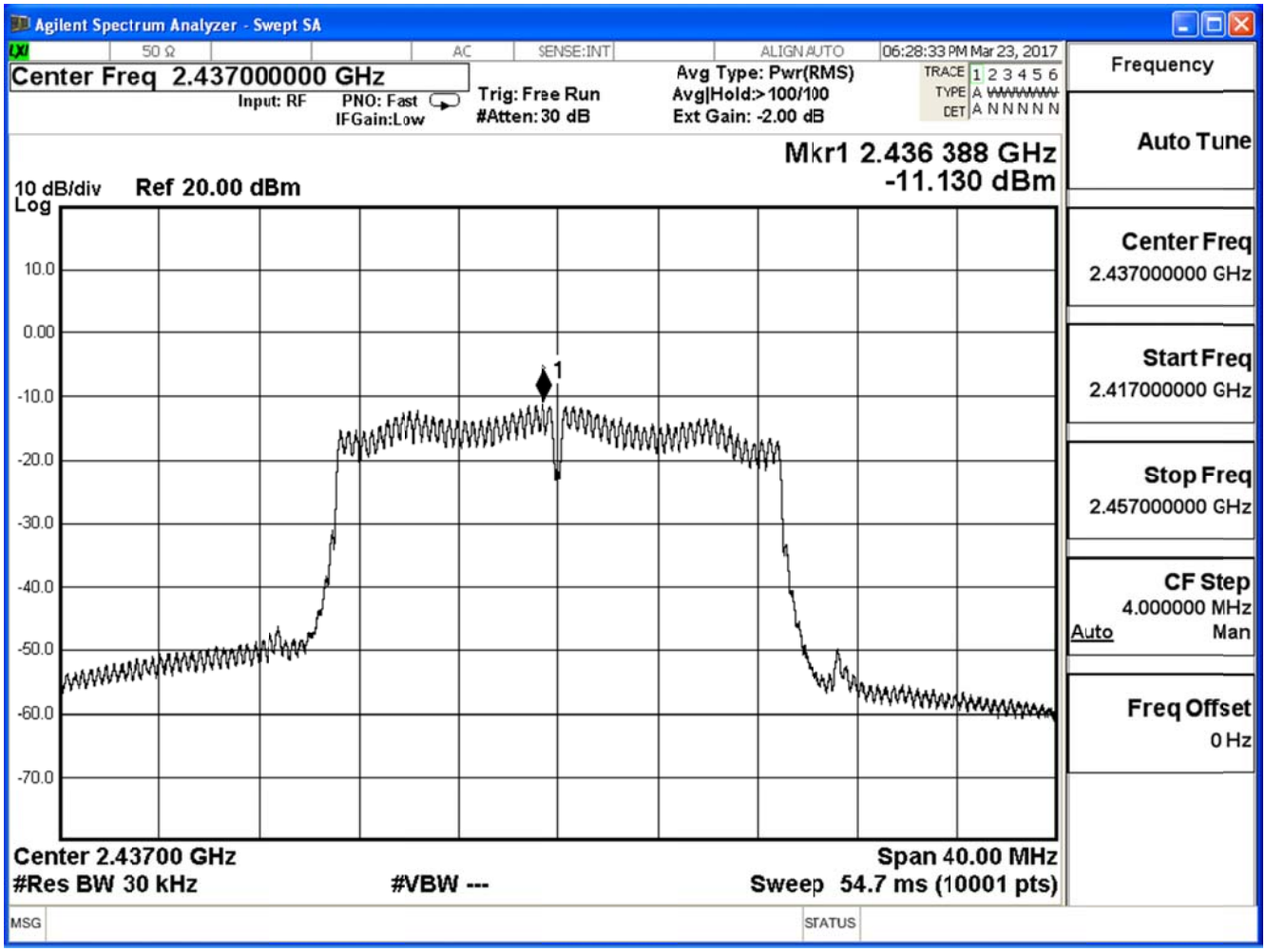
IEEE802.11n 20MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-11.053	≦6.49	Pass
6	2437	-11.130	≦6.49	Pass
11	2462	-11.286	≦6.49	Pass

Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi
Limit = 8 dBm -(7.51-6)= 6.49 dBm

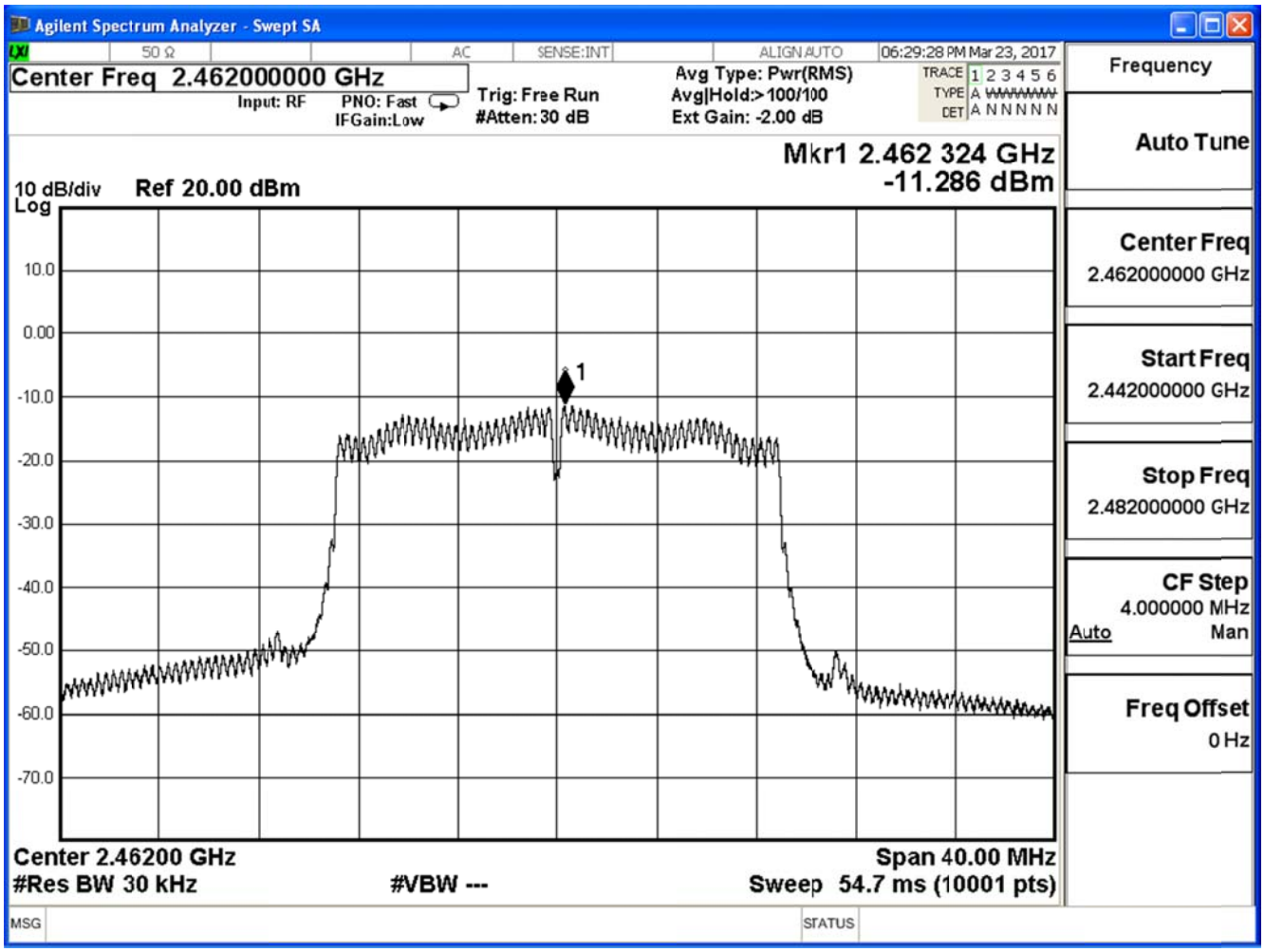
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:28:33 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.436 388 GHz
-11.130 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.417000000 GHz
Stop Freq
2.457000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 11


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:29:28 PM Mar 23, 2017
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.462 324 GHz
-11.286 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.46200 GHz
#Res BW 30 kHz
#VBW ---
Span 40.00 MHz
Sweep 54.7 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.442000000 GHz
Stop Freq
2.482000000 GHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 20MHz (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	-7.850	≦6.49	Pass
6	2437	-7.824	≦6.49	Pass
11	2462	-8.011	≦6.49	Pass

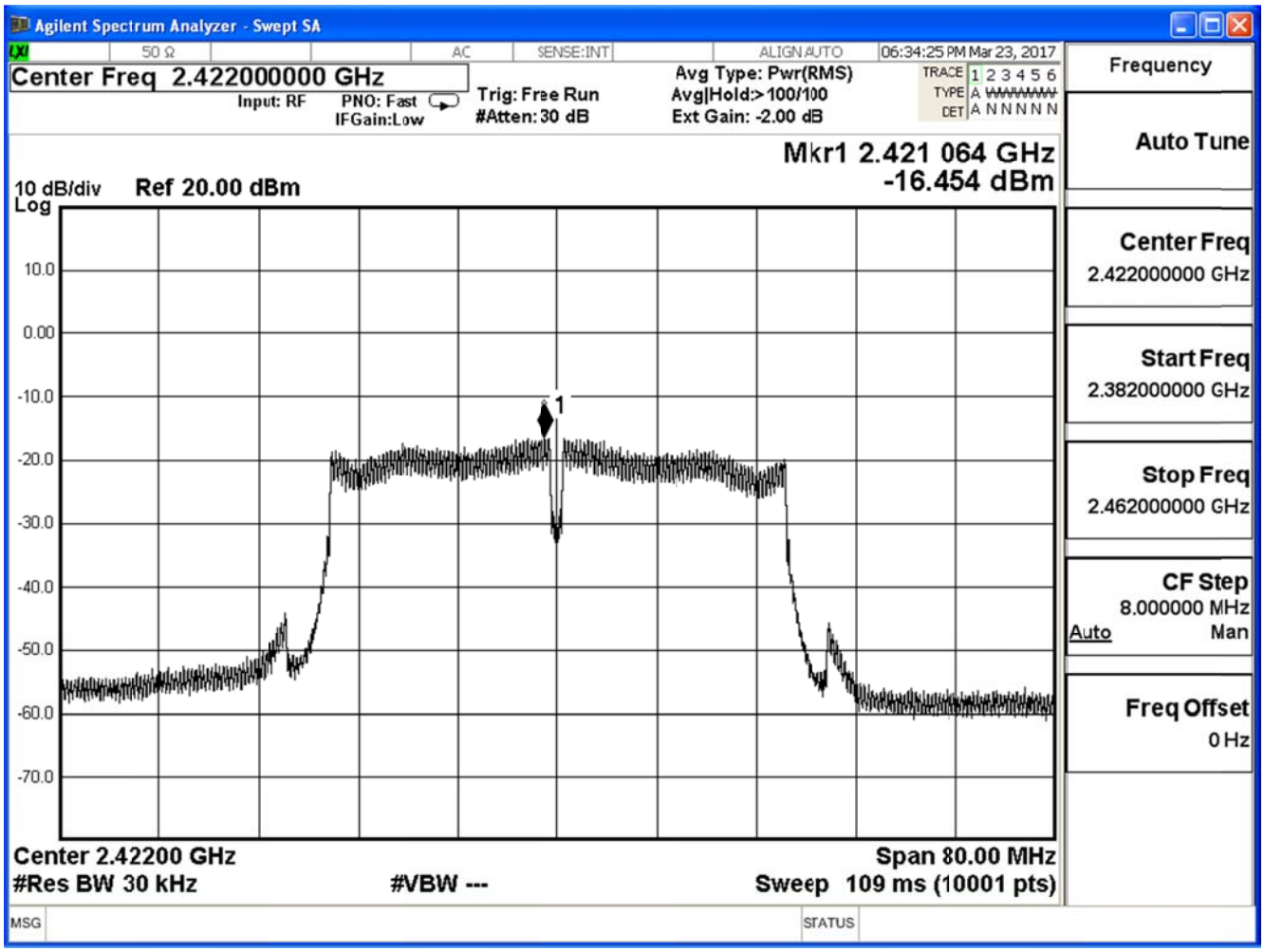
Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi
Limit = 8 dBm -(7.51-6)= 6.49 dBm

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

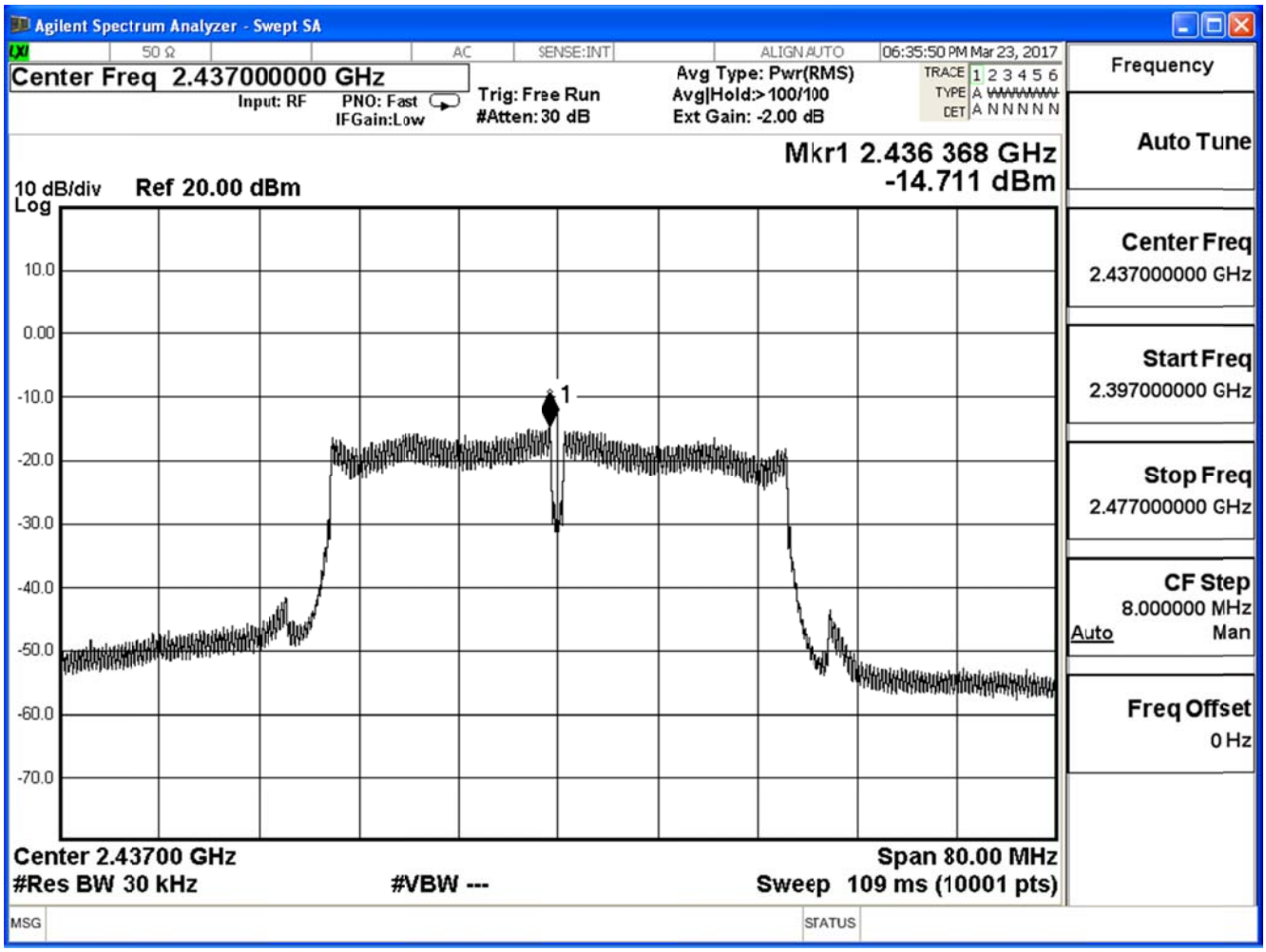
IEEE802.11n 40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-16.454	≦6.49	Pass
6	2437	-14.711	≦6.49	Pass
9	2452	-15.156	≦6.49	Pass

Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi
Limit = 8 dBm -(7.51-6)= 6.49 dBm

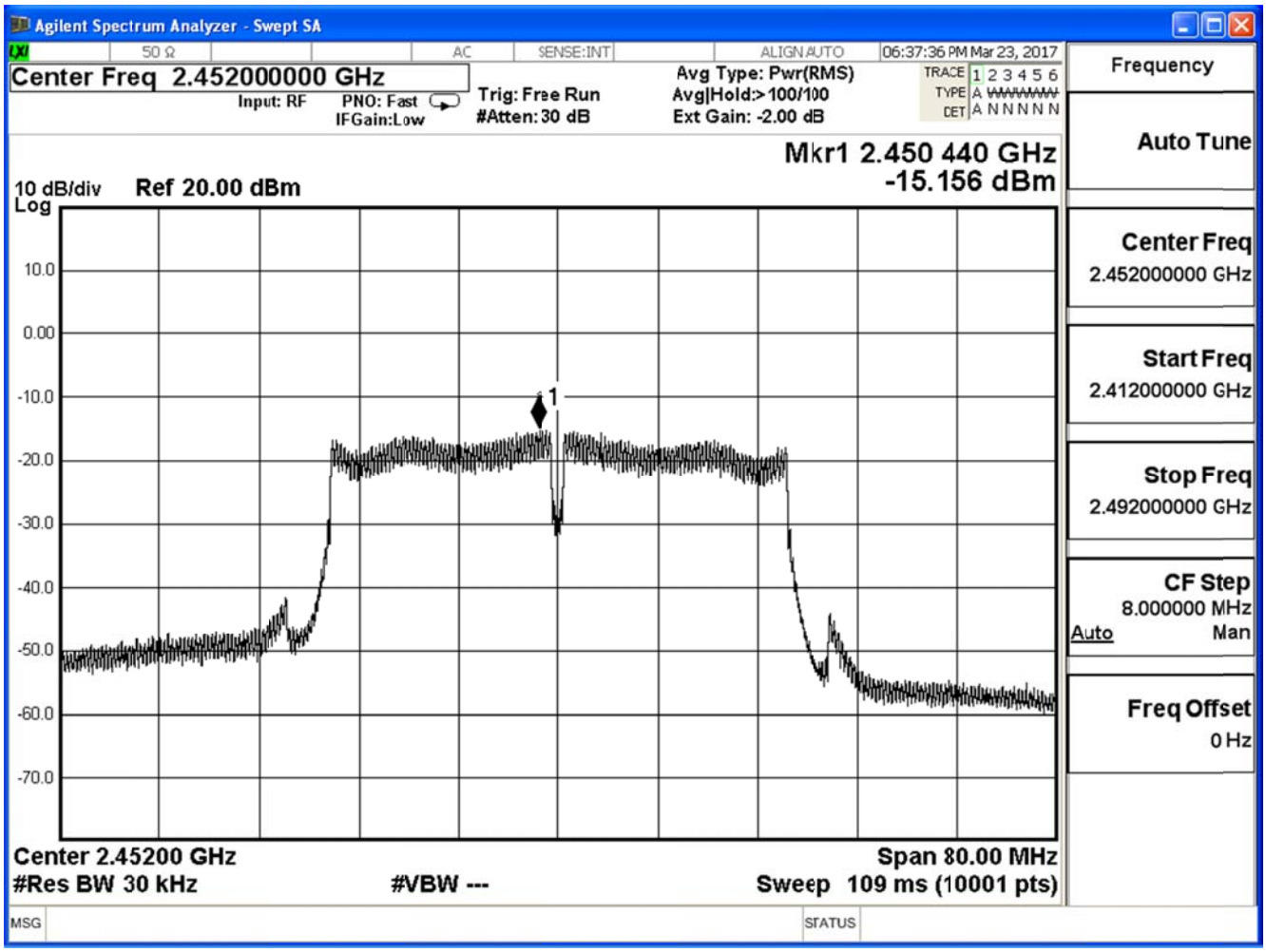
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:35:50 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.436 368 GHz
-14.711 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 80.00 MHz
Sweep 109 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.397000000 GHz
Stop Freq
2.477000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 9

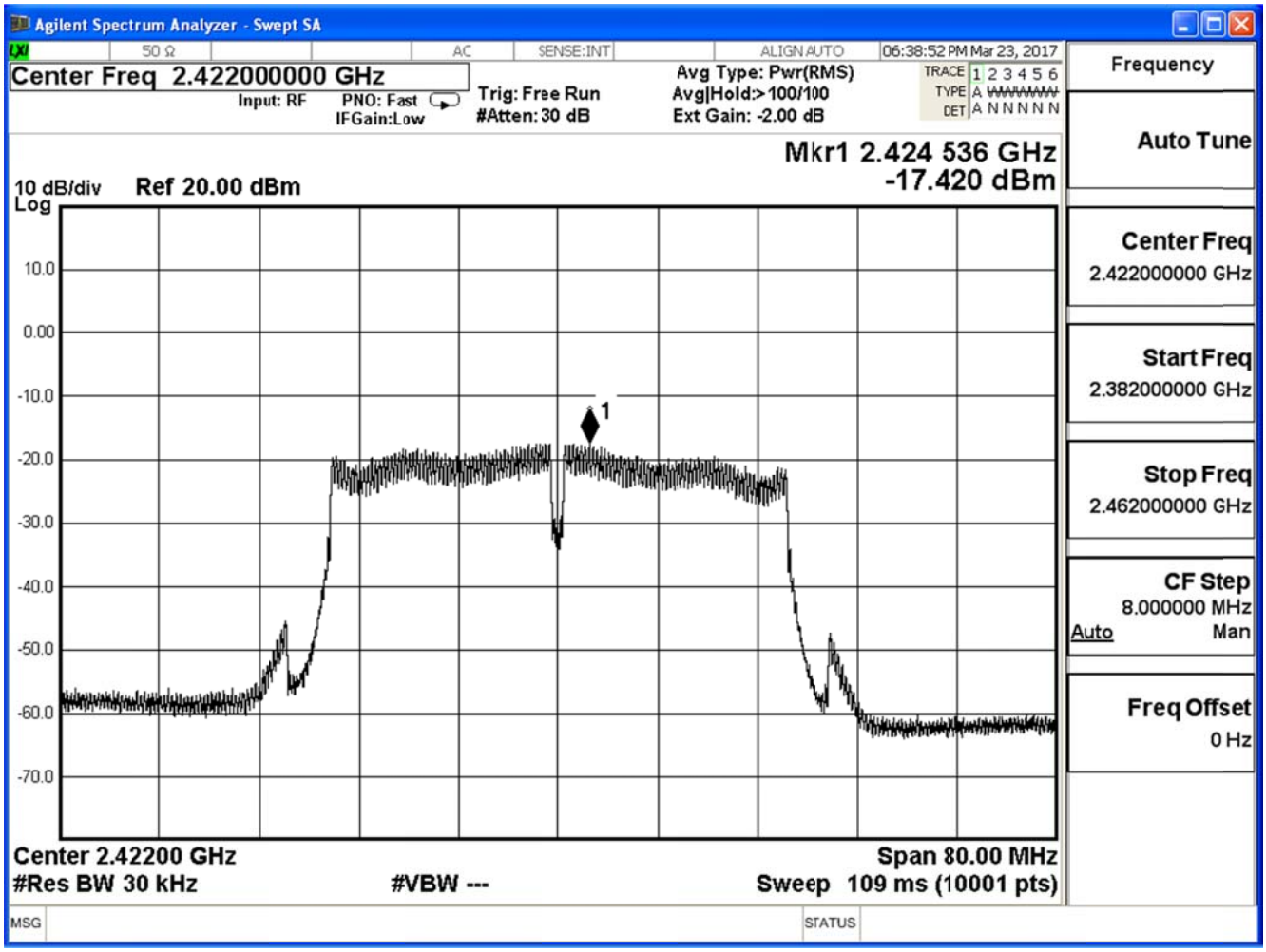

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:37:36 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.450 440 GHz
-15.156 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.45200 GHz
#Res BW 30 kHz
#VBW ---
Span 80.00 MHz
Sweep 109 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.412000000 GHz
Stop Freq
2.492000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

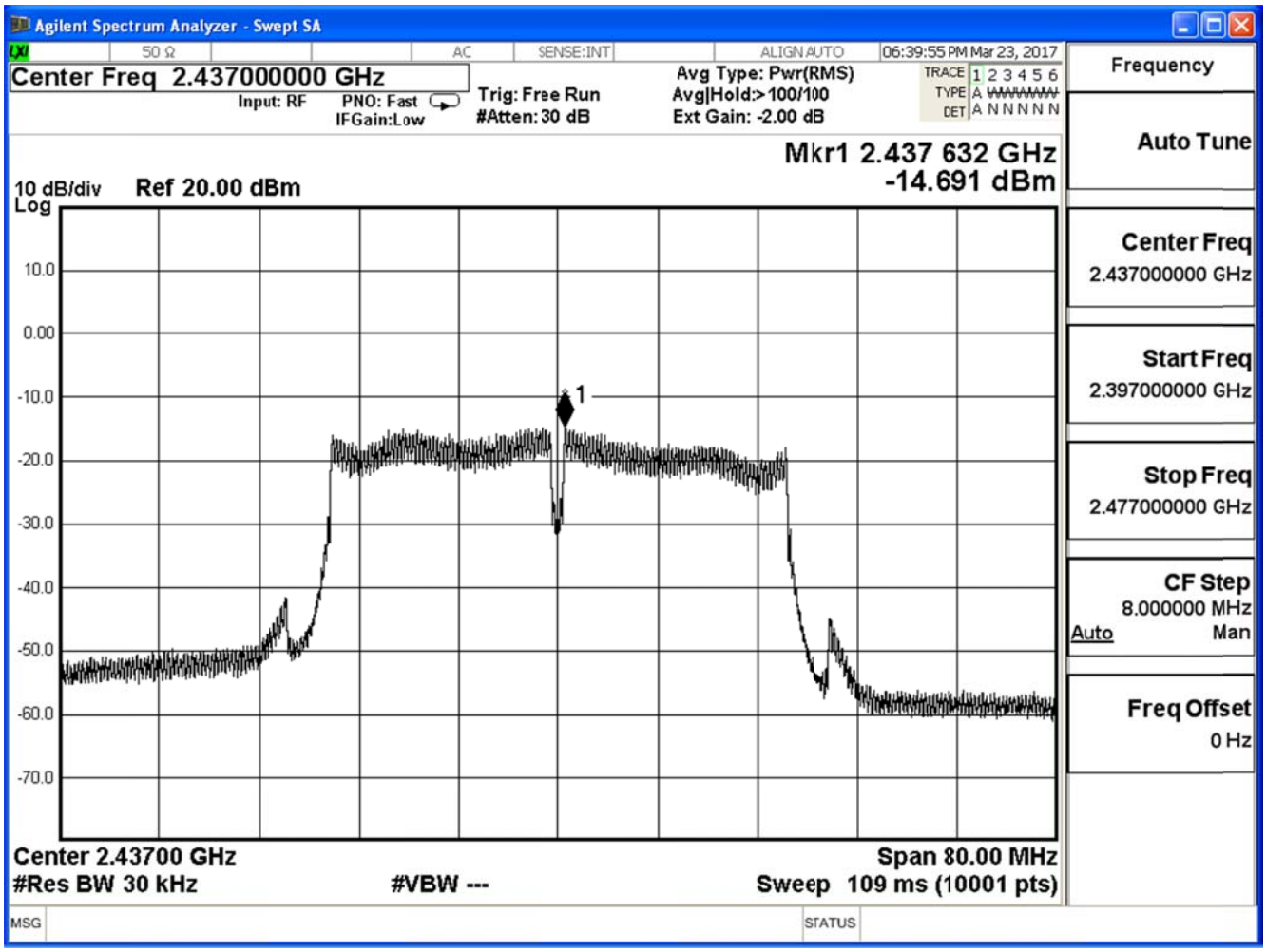
IEEE802.11n 40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-17.420	≦6.49	Pass
6	2437	-14.691	≦6.49	Pass
9	2452	-15.102	≦6.49	Pass

Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi
Limit = 8 dBm -(7.51-6)= 6.49 dBm

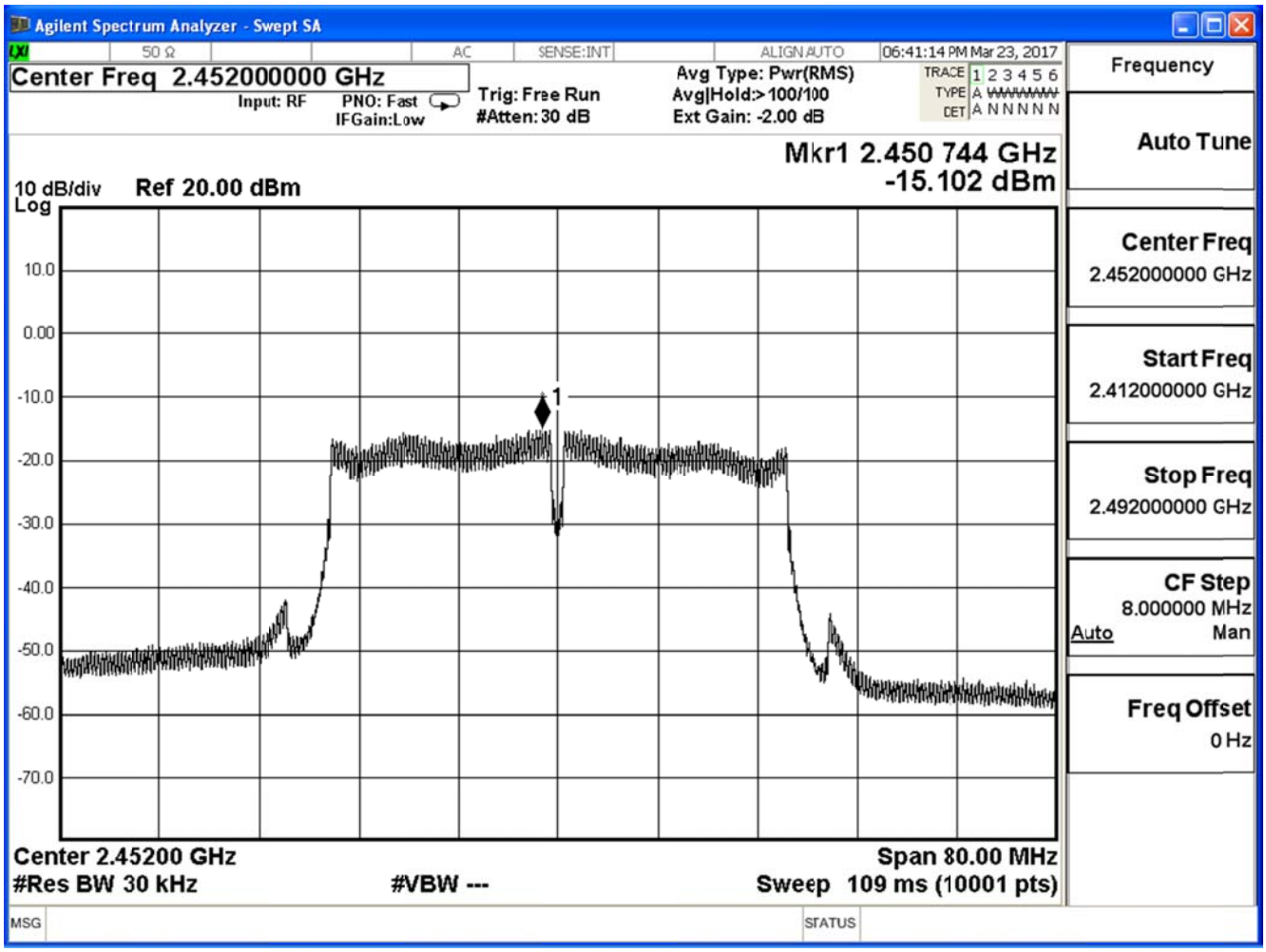
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:39:55 PM Mar 23, 2017
Center Freq 2.437000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.437 632 GHz
-14.691 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
Center 2.43700 GHz
#Res BW 30 kHz
#VBW ---
Span 80.00 MHz
Sweep 109 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.397000000 GHz
Stop Freq
2.477000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 9


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
06:41:14 PM Mar 23, 2017
Center Freq 2.452000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 2.450 744 GHz
-15.102 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.45200 GHz
#Res BW 30 kHz
#VBW ---
Span 80.00 MHz
Sweep 109 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.412000000 GHz
Stop Freq
2.492000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	UHD751-P		
Test Item	Power Density		
Test Mode	Mode 2: Tx_MIMO Mode		
Date of Test	2017/03/23	Test Site	SR10-H

IEEE802.11n 40MHz (ANT 0+1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	-13.900	≦6.49	Pass
6	2437	-11.691	≦6.49	Pass
9	2452	-12.119	≦6.49	Pass

Direction antenna =4.5 +10log(2)=4.5+3.01=7.51 dBi

Limit = 8 dBm -(7.51-6)= 6.49 dBm