

## **8.13. 11n HT40 UAT 2 SISO MODE IN THE 5.3GHz BAND**

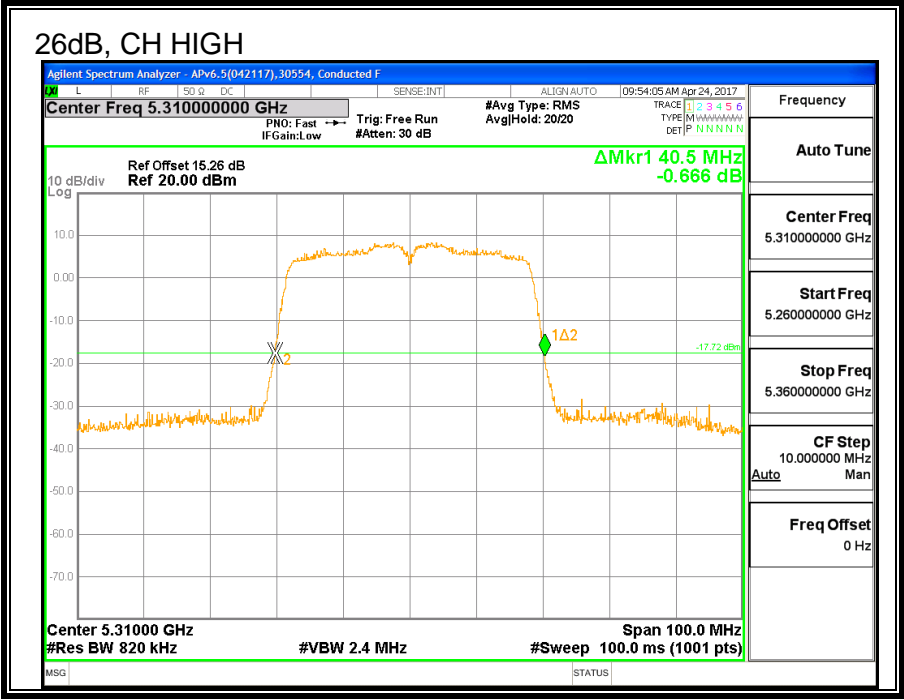
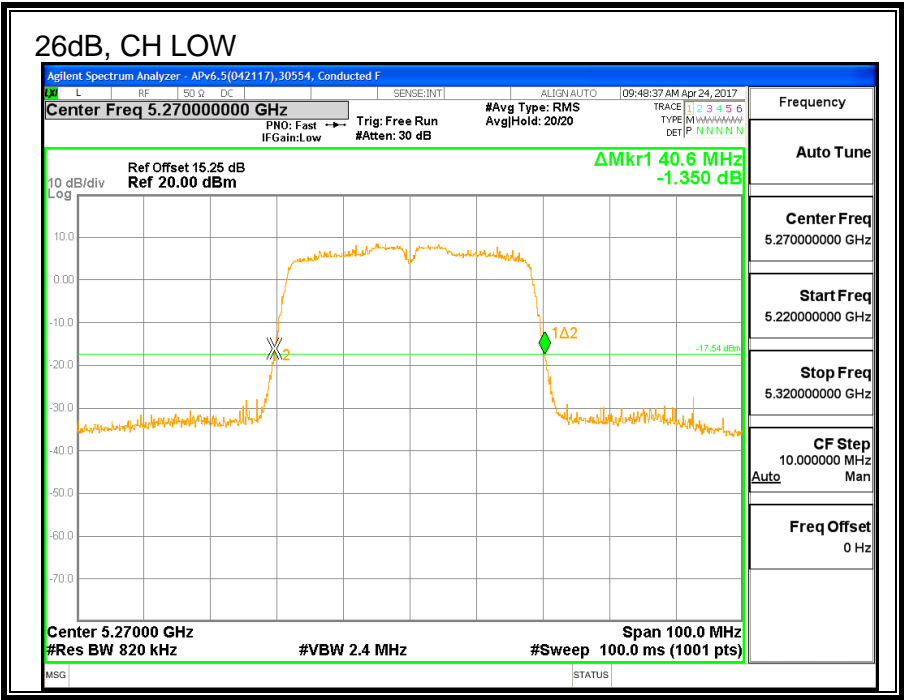
### **8.13.1. 26 dB BANDWIDTH**

#### **LIMITS**

None; for reporting purposes only.

#### **RESULTS**

<b>Channel</b>	<b>Frequency</b>	<b>26 dB BW UAT 2 (MHz)</b>
Low	5270	40.6
High	5310	40.5



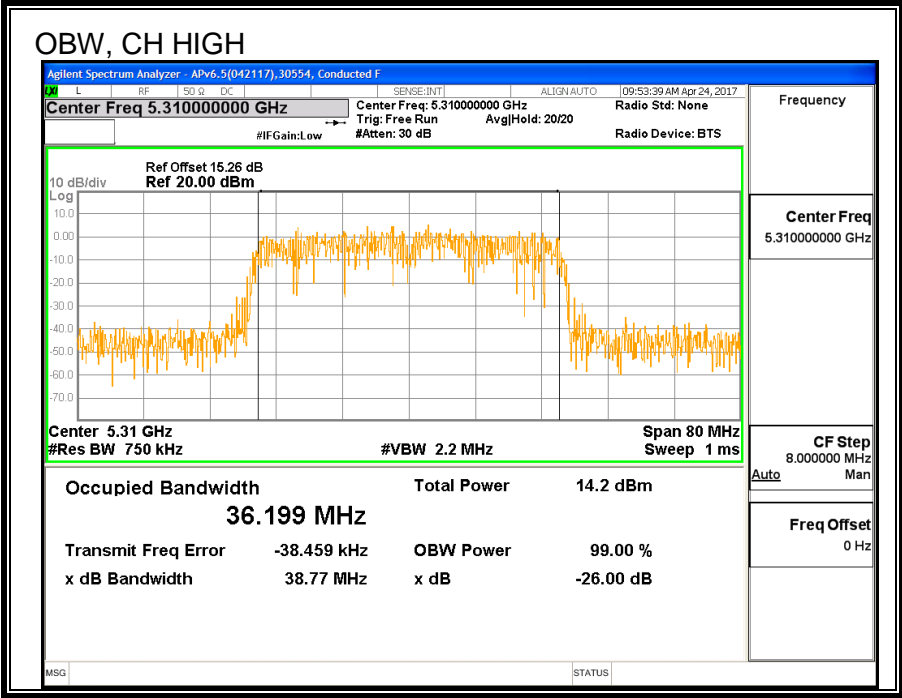
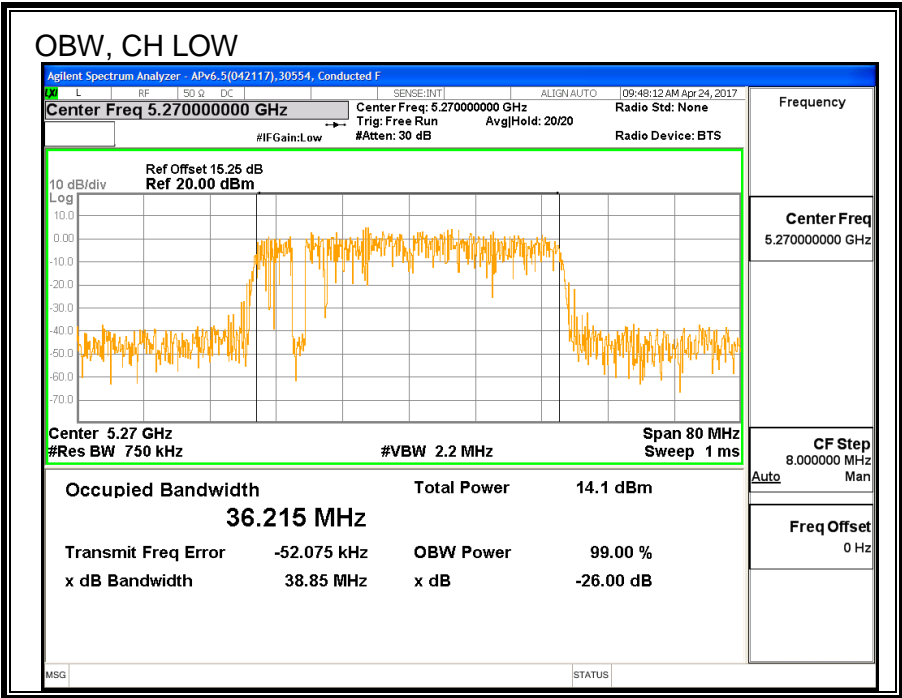
## 8.13.2. 99% BANDWIDTH

### LIMITS

None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)
Low	5270	36.215
High	5310	36.199



### 8.13.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power UAT 2 (dBm)
Low	5270	19.32
High	5310	15.37

#### **8.13.4. OUTPUT POWER AND PPSD**

##### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

##### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5270	40.60	36.22	-3.51	24.00	11.00
High	5310	40.50	36.20	-3.51	24.00	11.00

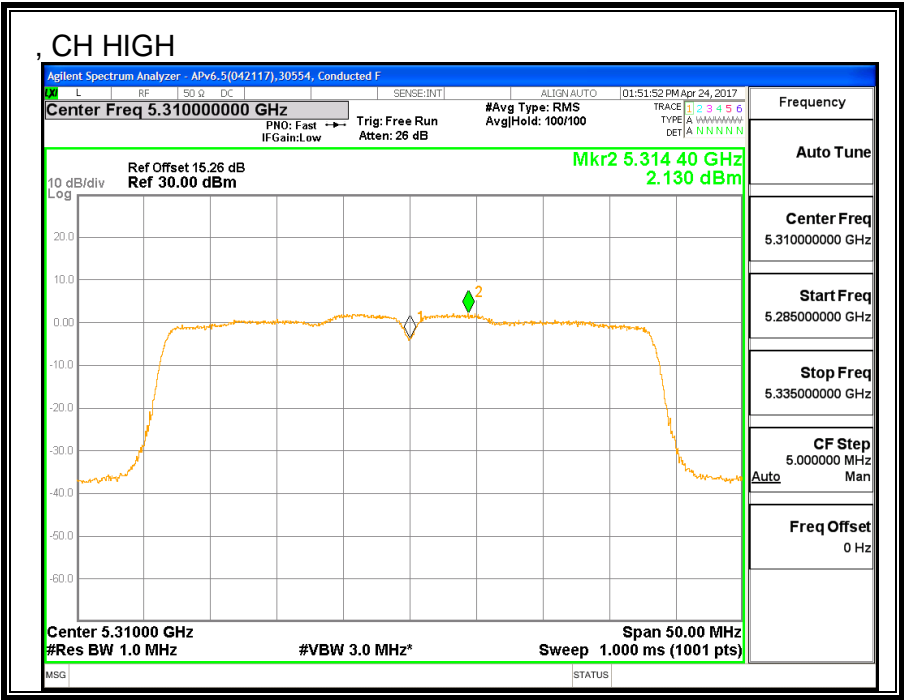
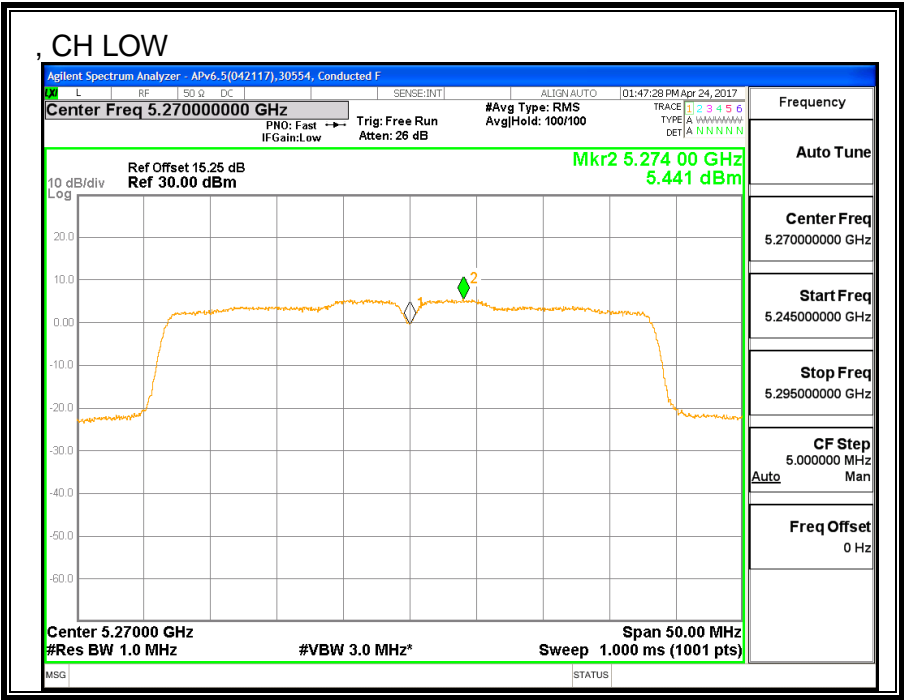
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	19.32	19.32	24.00	-4.68
High	5310	15.37	15.37	24.00	-8.63

### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5270	5.44	5.54	11.00	-5.46
High	5310	2.13	2.23	11.00	-8.77





## **8.14. 11n HT40 LAT 3 SISO MODE IN THE 5.3GHz BAND**

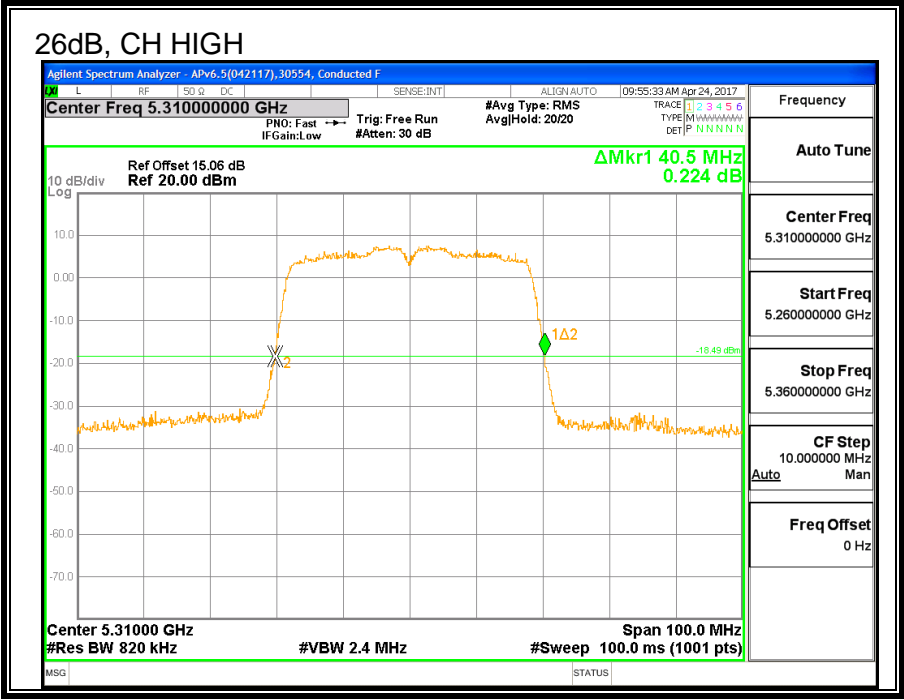
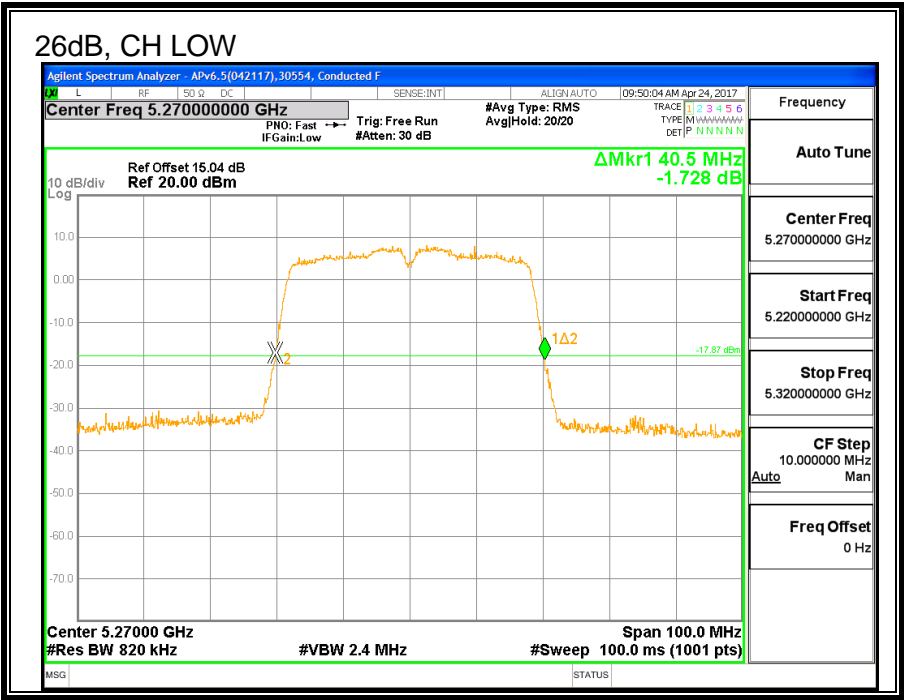
### **8.14.1. 26 dB BANDWIDTH**

#### **LIMITS**

None; for reporting purposes only.

#### **RESULTS**

<b>Channel</b>	<b>Frequency</b>	<b>26 dB BW LAT 3 (MHz)</b>
Low	5270	40.5
High	5310	40.5



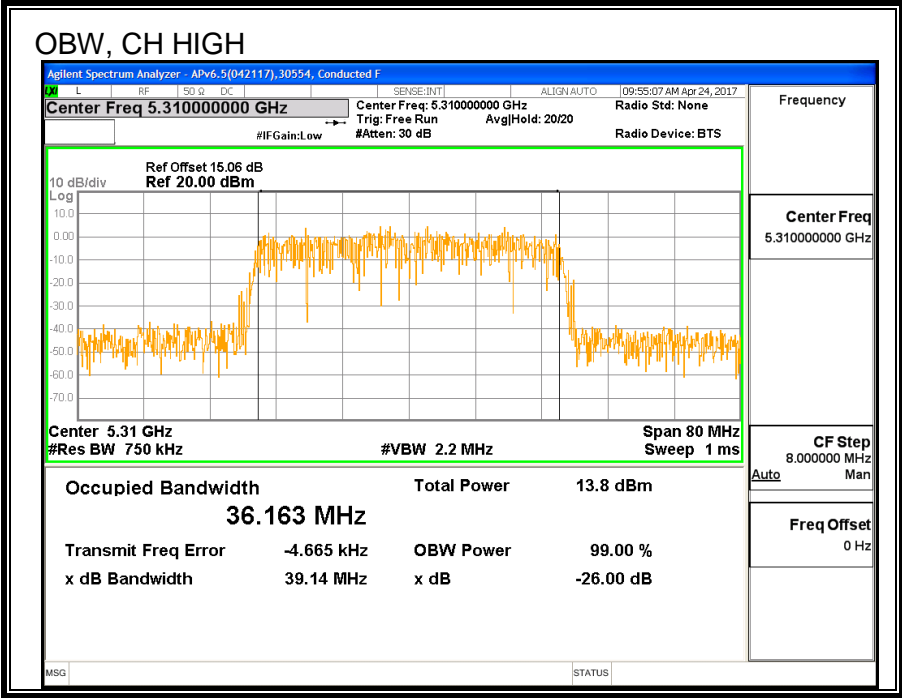
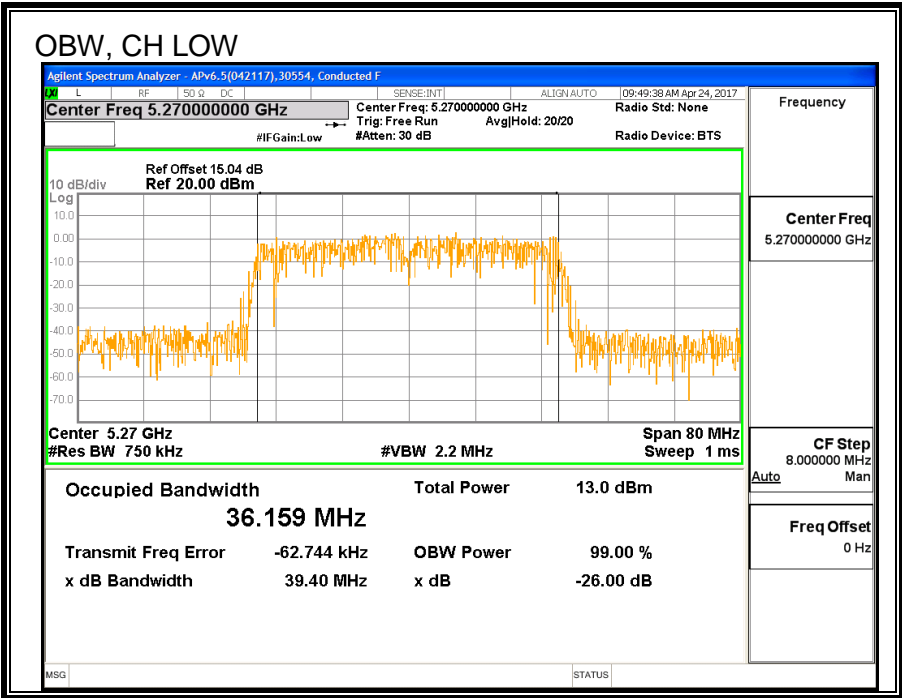
## 8.14.2. 99% BANDWIDTH

### LIMITS

None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW LAT 3 (MHz)
Low	5270	36.159
High	5310	36.163



### 8.14.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power LAT 3 (dBm)
Low	5270	19.31
High	5310	15.30

#### **8.14.4. OUTPUT POWER AND PPSD**

##### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

##### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5270	40.50	36.16	-1.17	24.00	11.00
High	5310	40.50	36.16	-1.17	24.00	11.00

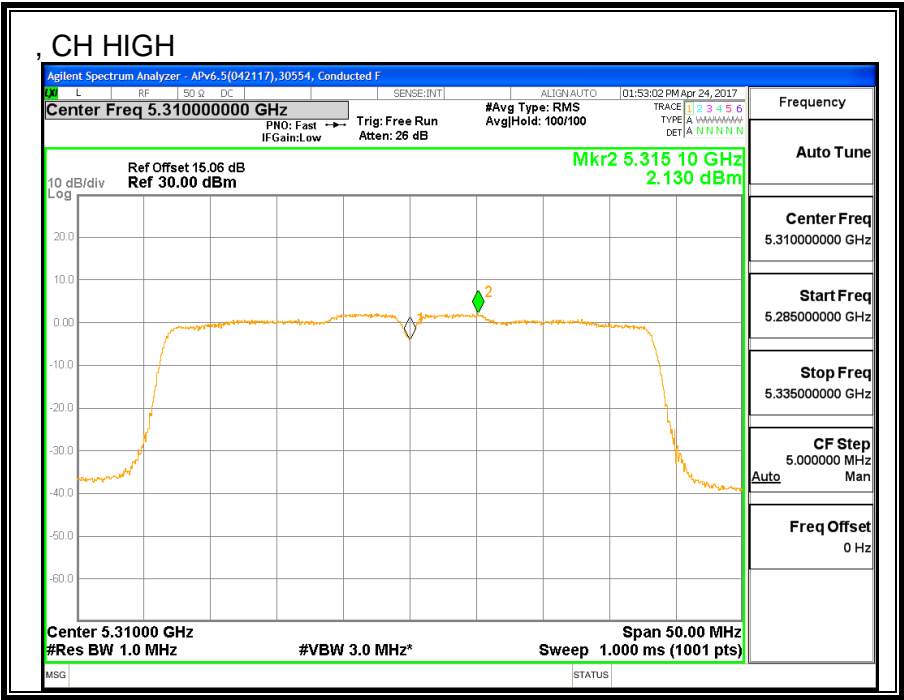
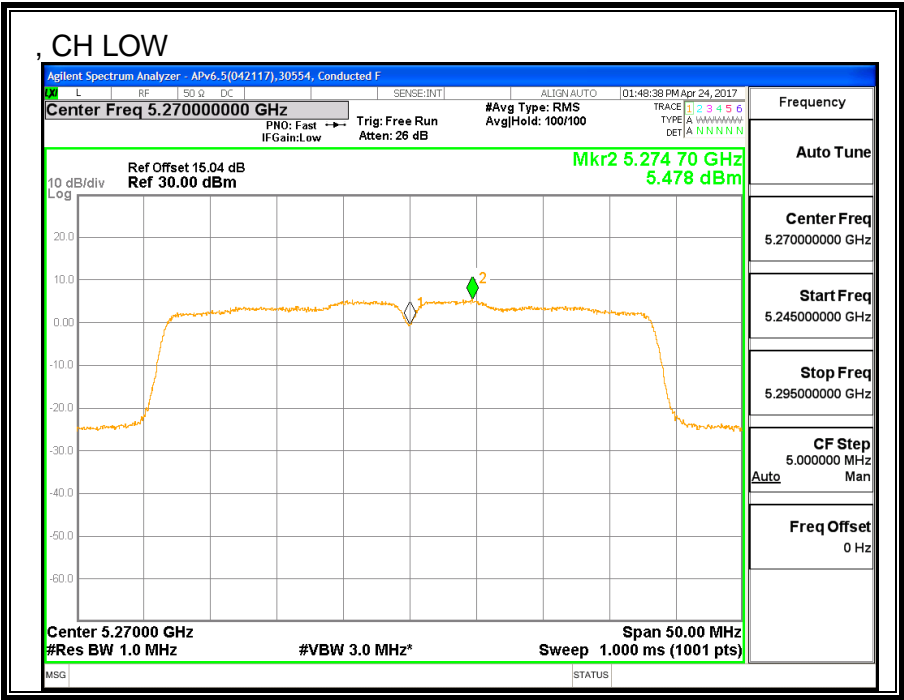
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	19.31	19.31	24.00	-4.69
High	5310	15.30	15.30	24.00	-8.70

### PSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5270	5.48	5.58	11.00	-5.42
High	5310	2.13	2.23	11.00	-8.77





## **8.15. 11n HT40 2TX CDD MIMO MODE IN THE 5.3GHz BAND**

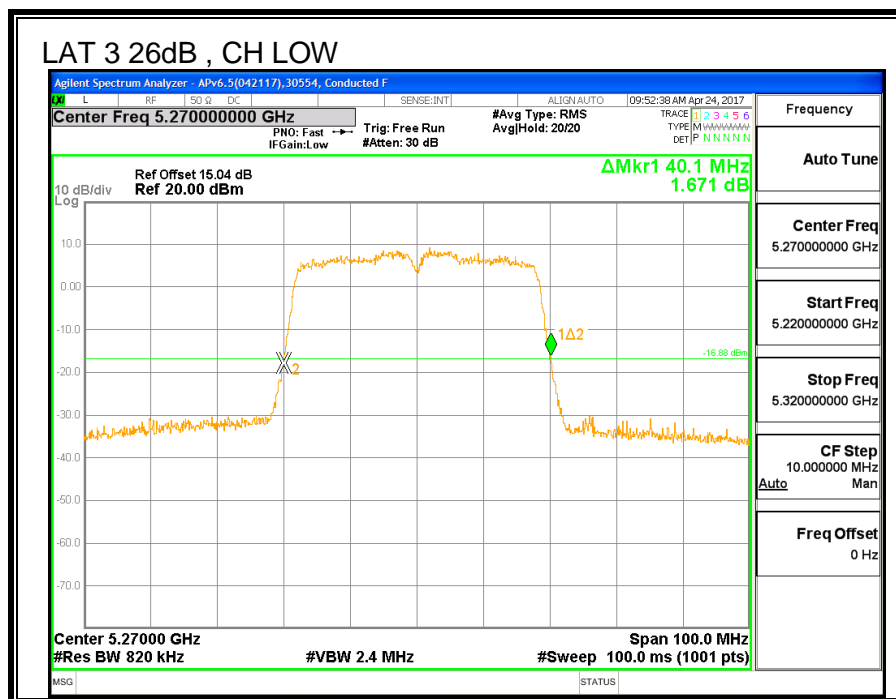
### **8.15.1. 26 dB BANDWIDTH**

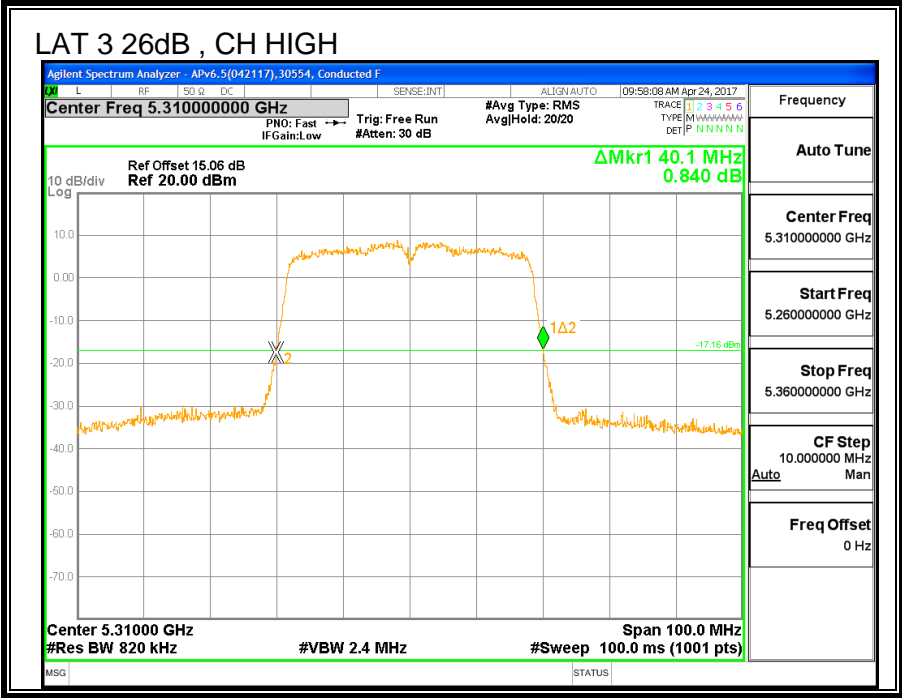
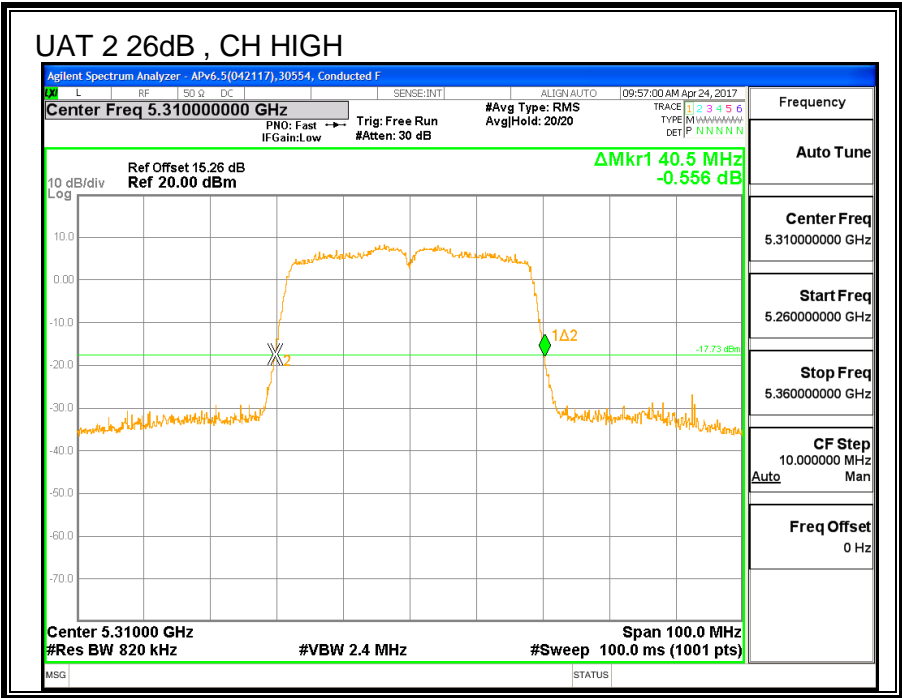
#### **LIMITS**

None; for reporting purposes only.

#### **RESULTS**

<b>Channel</b>	<b>Frequency</b>	<b>26 dB BW UAT 2 (MHz)</b>	<b>26 dB BW LAT 3 (MHz)</b>
Low	5270	40.7	40.1
High	5310	40.5	40.1





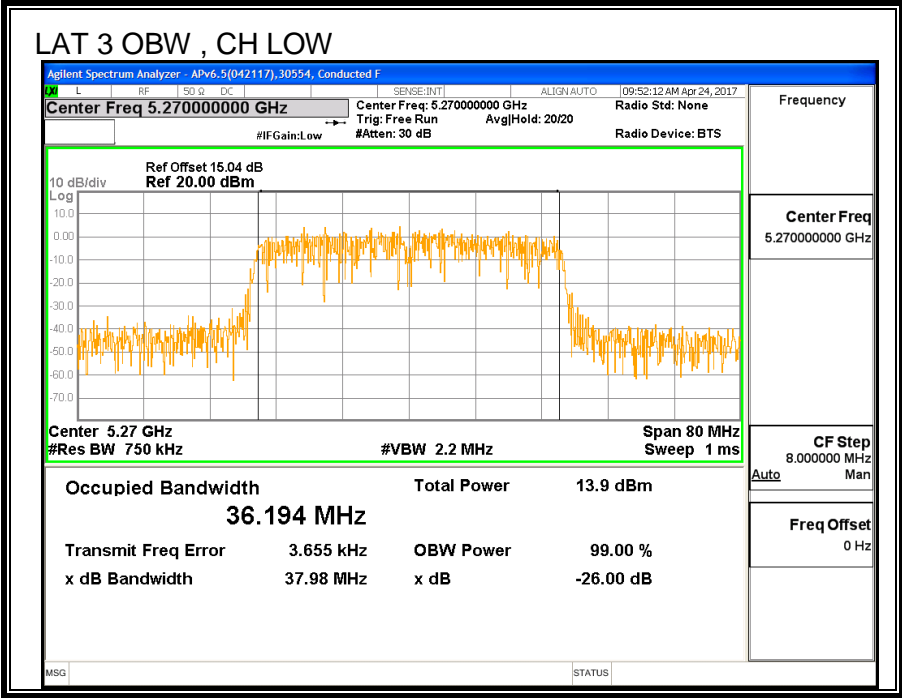
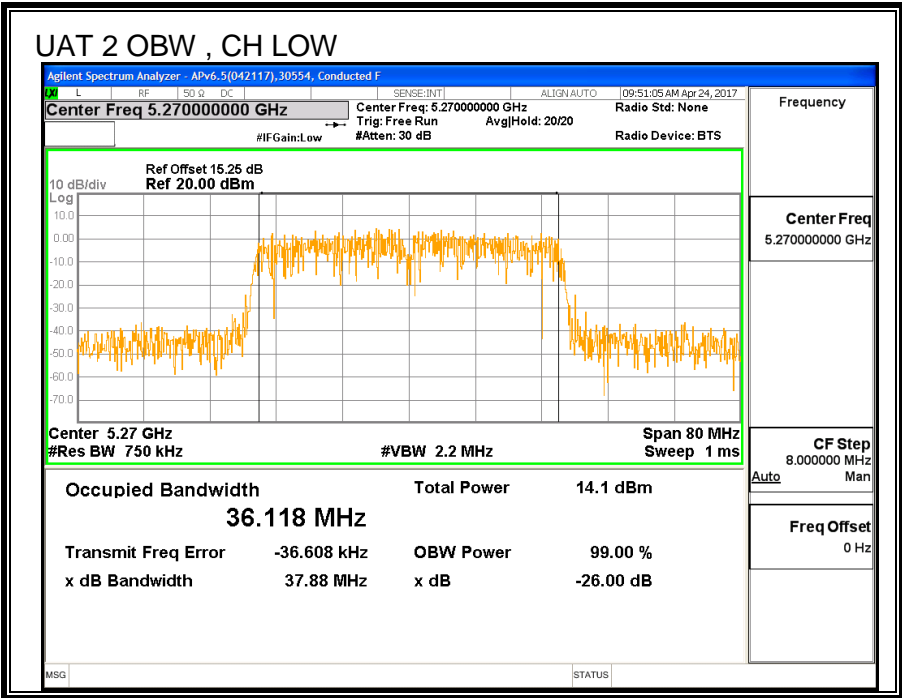
## 8.15.2. 99% BANDWIDTH

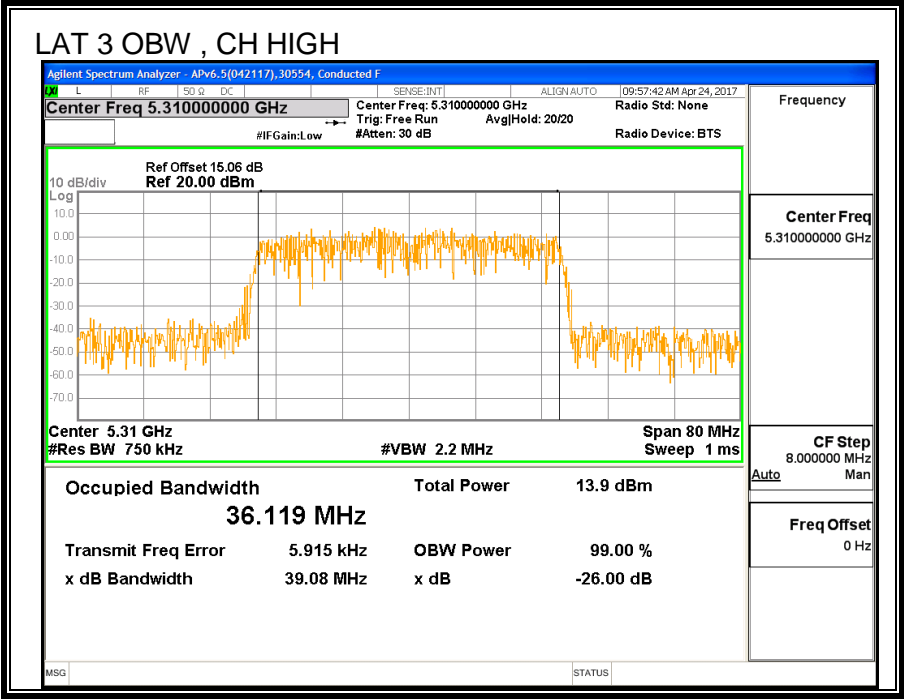
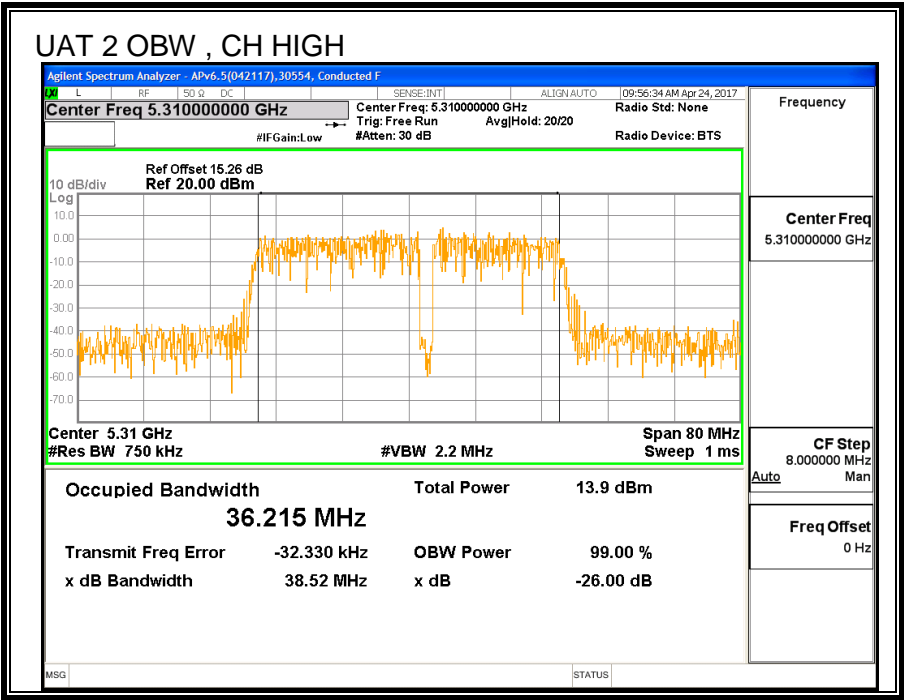
### LIMITS

None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)	99% BW LAT 3 (MHz)
Low	5270	36.118	36.194
High	5310	36.215	36.119





### 8.15.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

##### Average Power Results

Channel	Frequency (MHz)	UAT 2 Power (dBm)	LAT 3 Power (dBm)	Total Power (dBm)
Low	5270	19.33	19.48	22.42
High	5310	14.85	14.96	17.92

## 8.15.4. OUTPUT POWER AND PPSD

### LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

### DIRECTIONAL ANTENNA GAIN

For Power used uncorrelated gain The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-3.51	-1.17	-2.18

For PSD used correlated gain The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-3.51	-1.17	0.75



## RESULTS

### Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5270	40.100	36.118	-2.18	0.75	24.00	11.00
High	5310	40.100	36.119	-2.18	0.75	24.00	11.00

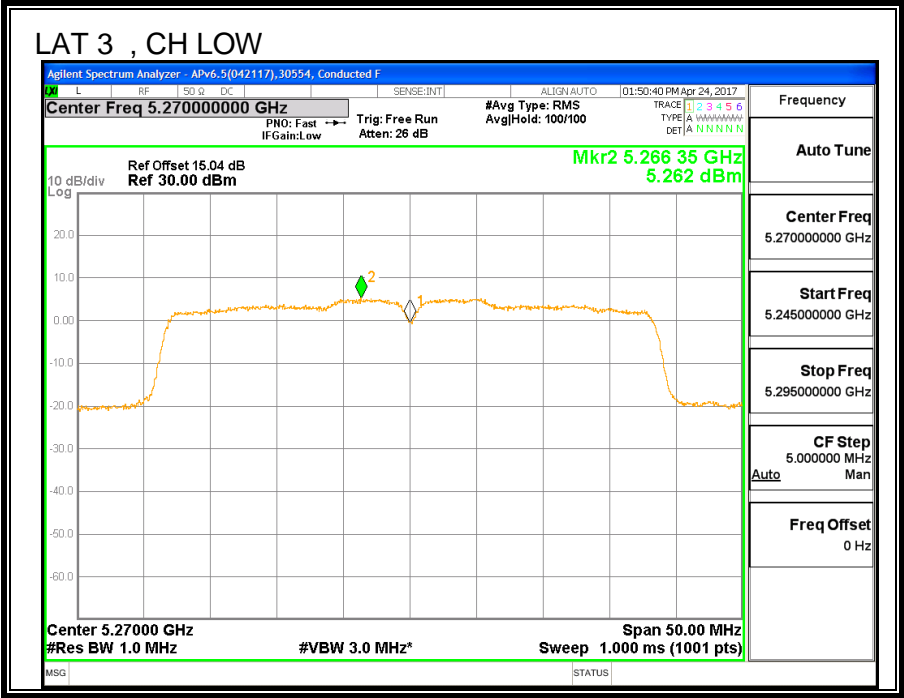
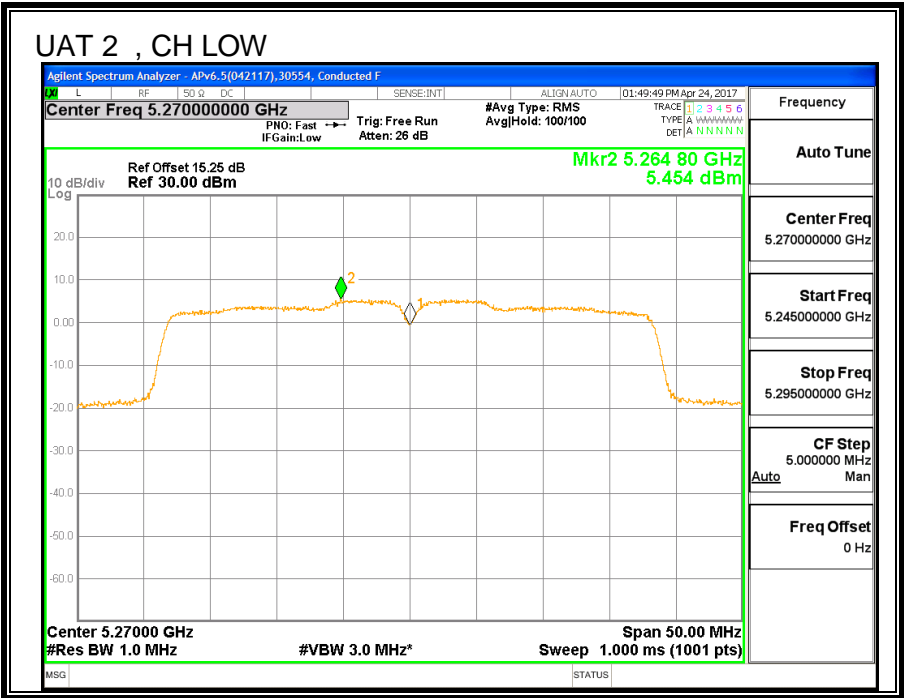
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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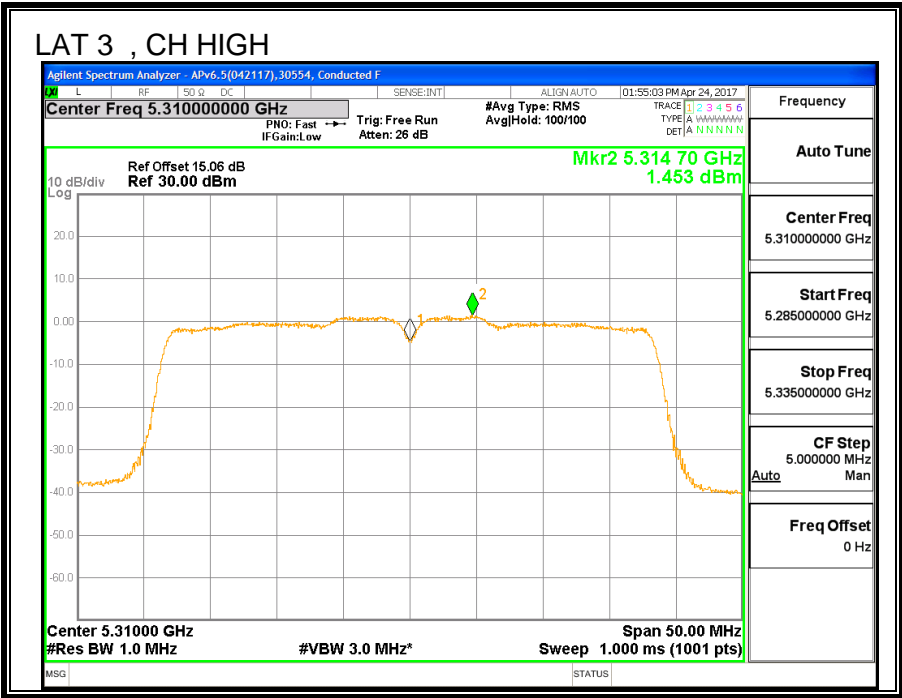
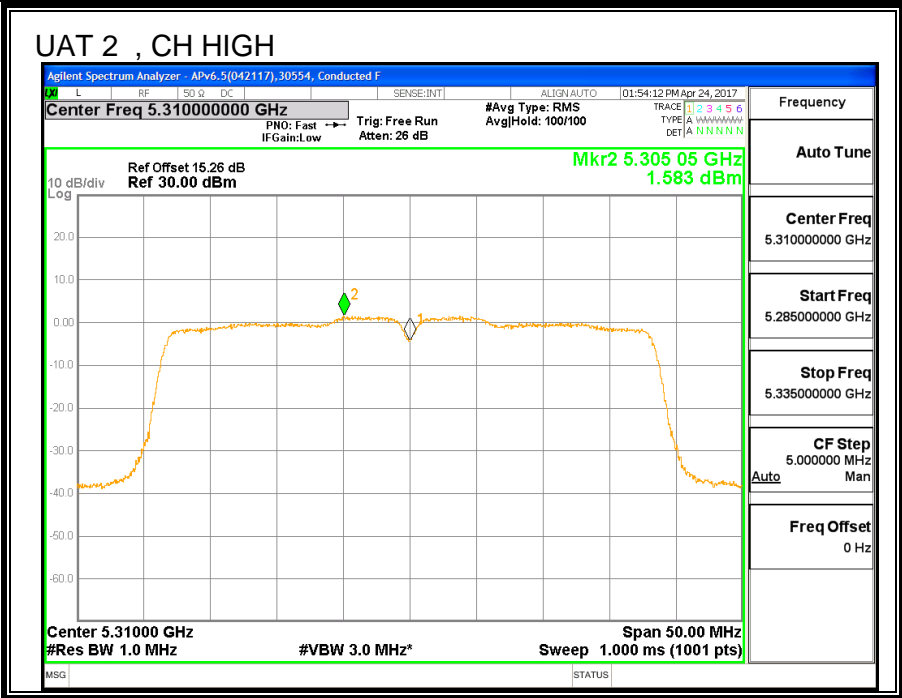
### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	19.33	19.48	22.42	24.00	-1.58
High	5310	14.85	14.96	17.92	24.00	-6.08

### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5270	5.45	5.26	8.47	11.00	-2.53
High	5310	1.58	1.45	4.63	11.00	-6.37





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**8.16. 11ac HT80 UAT 2 SISO MODE IN THE 5.3GHz BAND**

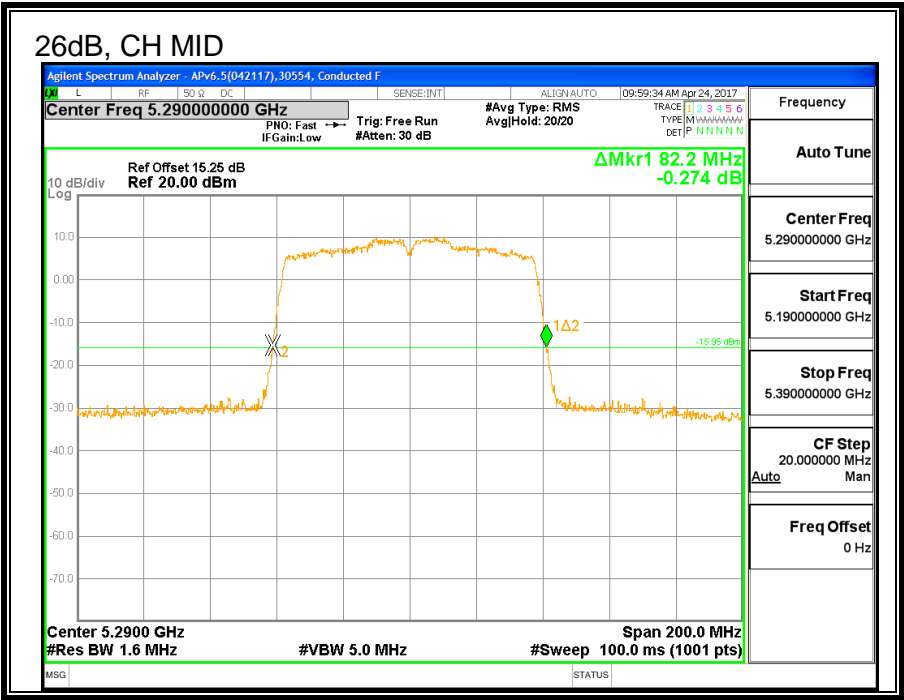
**8.16.1. 26 dB BANDWIDTH**

**LIMITS**

None; for reporting purposes only.

**RESULTS**

Channel	Frequency	26 dB BW UAT 2 (MHz)
Mid	5290	82.2



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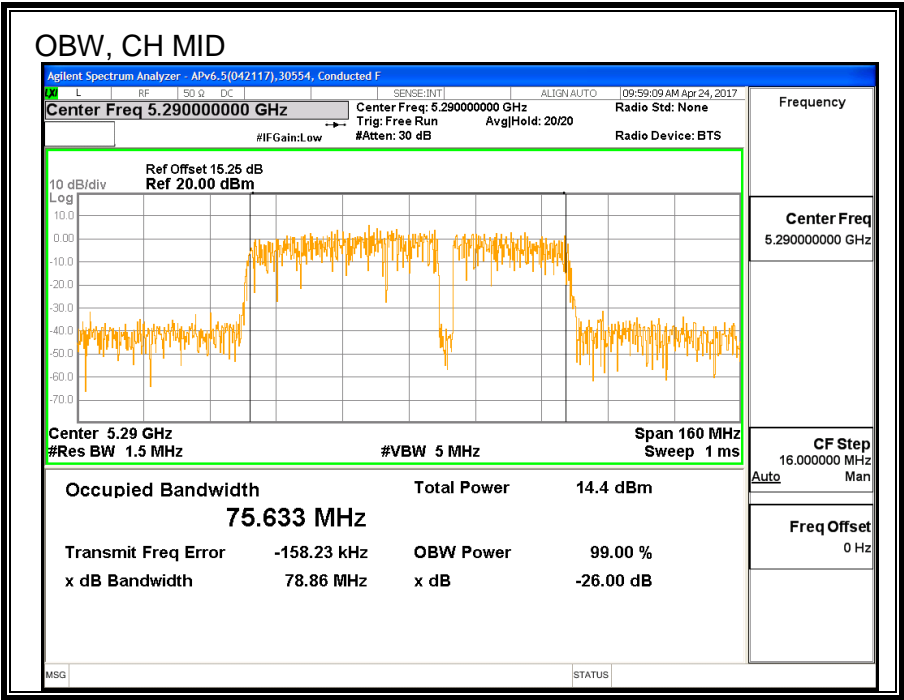
**8.16.2. 99% BANDWIDTH**

**LIMITS**

None; for reporting purposes only.

**RESULTS**

Channel	Frequency	99% BW UAT 2 (MHz)
Mid	5290	75.633



### 8.16.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power UAT 2 (dBm)
Mid	5290	14.86



#### **8.16.4. OUTPUT POWER AND PPSD**

##### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

##### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Mid	5290	82.20	75.63	-3.51	24.00	11.00

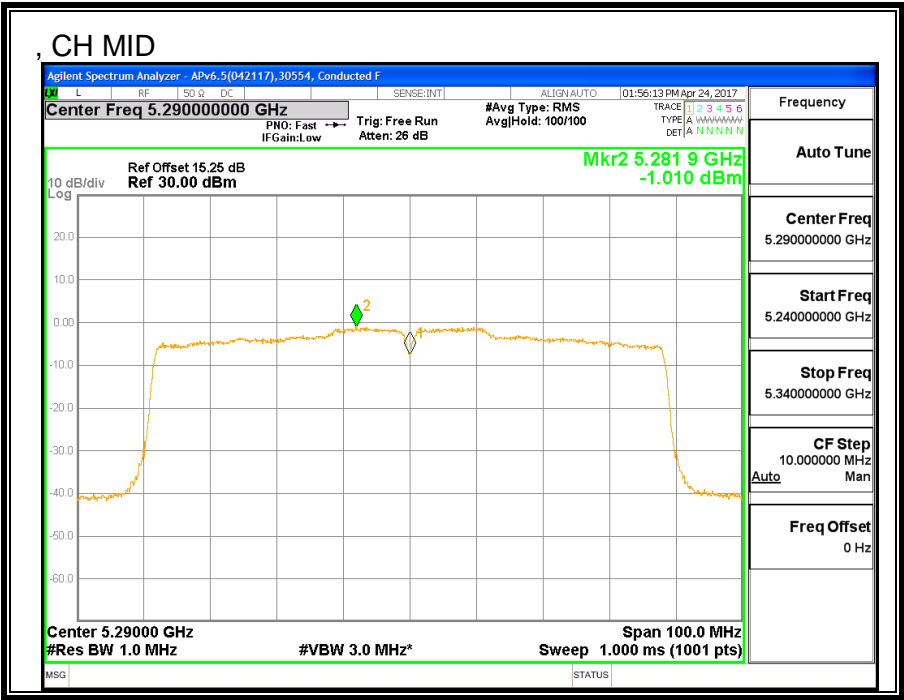
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.86	14.86	24.00	-9.14

### PPSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5290	-1.01	-0.81	11.00	-11.81



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## 8.17. 11ac HT80 LAT 3 SISO MODE IN THE 5.3GHz BAND

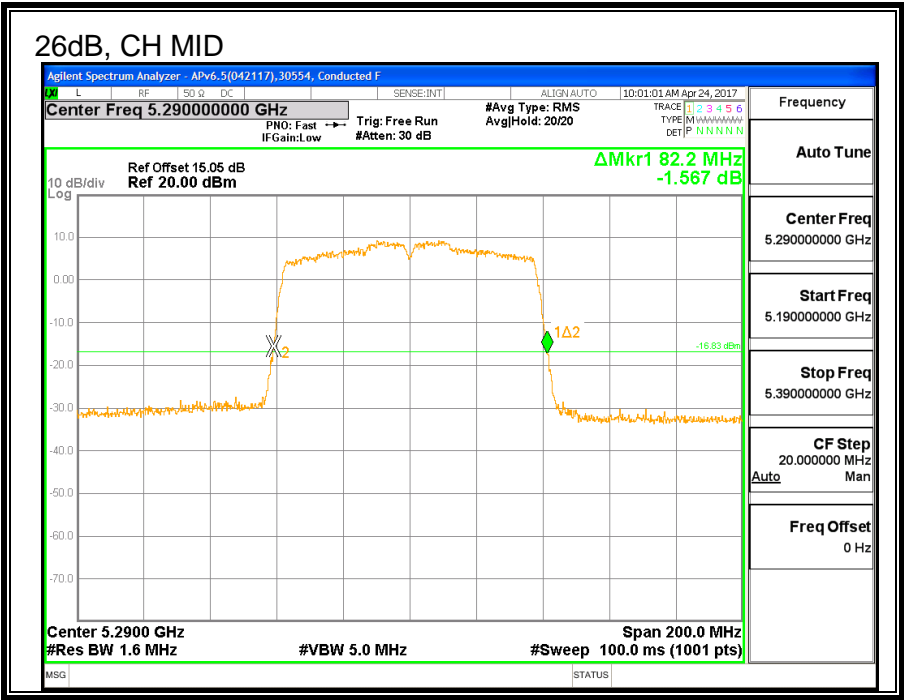
### 8.17.1. 26 dB BANDWIDTH

#### LIMITS

None; for reporting purposes only.

#### RESULTS

Channel	Frequency	26 dB BW LAT 3 (MHz)
Mid	5290	82.2



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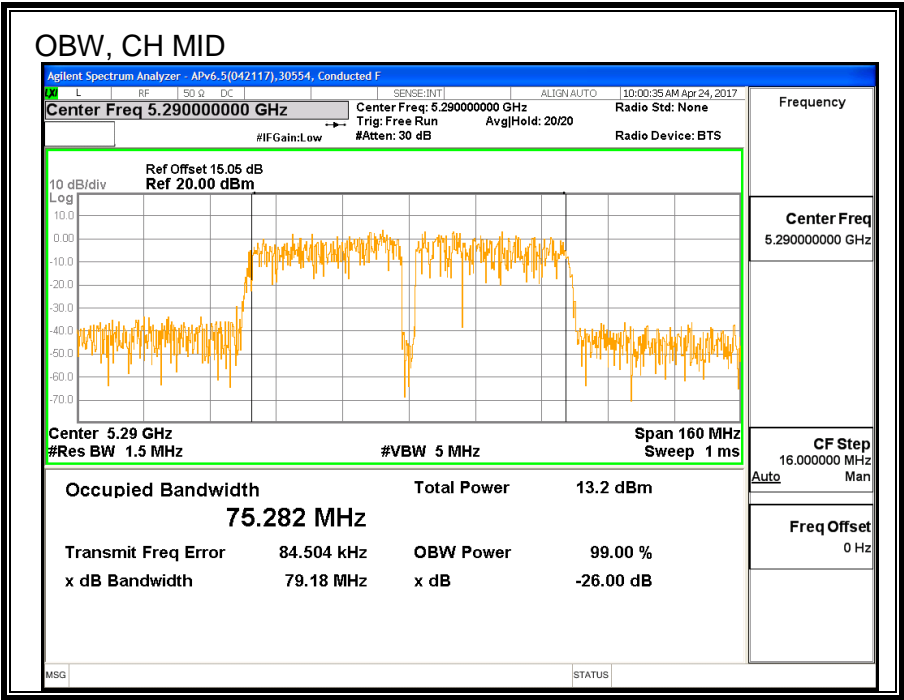
**8.17.2. 99% BANDWIDTH**

**LIMITS**

None; for reporting purposes only.

**RESULTS**

Channel	Frequency	99% BW LAT 3 (MHz)
Mid	5290	75.282



### 8.17.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power LAT 3 (dBm)
Mid	5290	14.94



#### **8.17.4. OUTPUT POWER AND PPSD**

##### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

##### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Mid	5290	82.20	75.28	-1.17	24.00	11.00

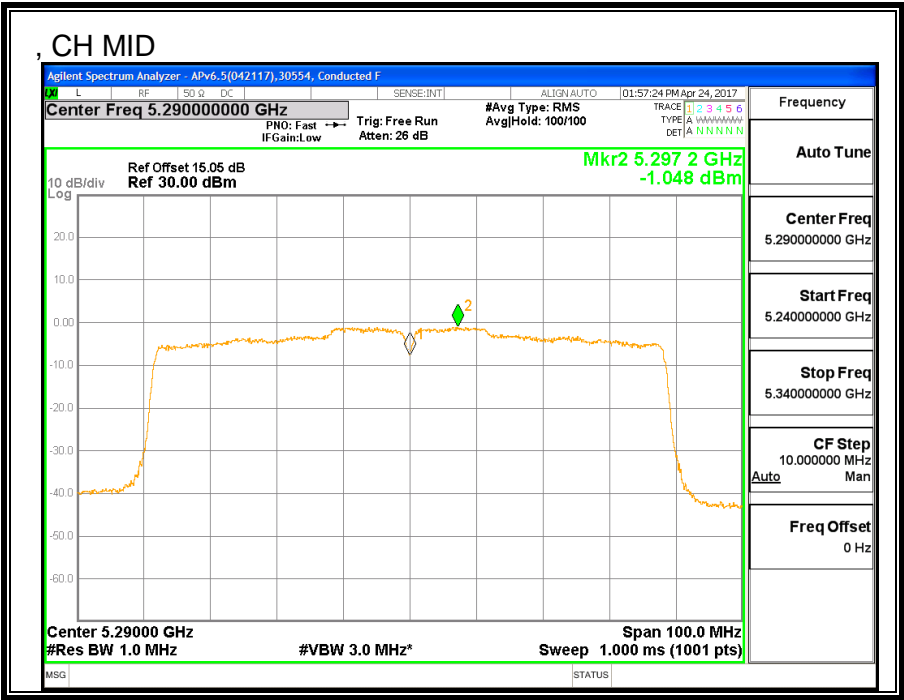
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.94	14.94	24.00	-9.06

### PPSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5290	-1.05	-0.85	11.00	-11.85



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**8.18. 11ac HT80 2TX CDD MIMO MODE IN THE 5.3GHz BAND**

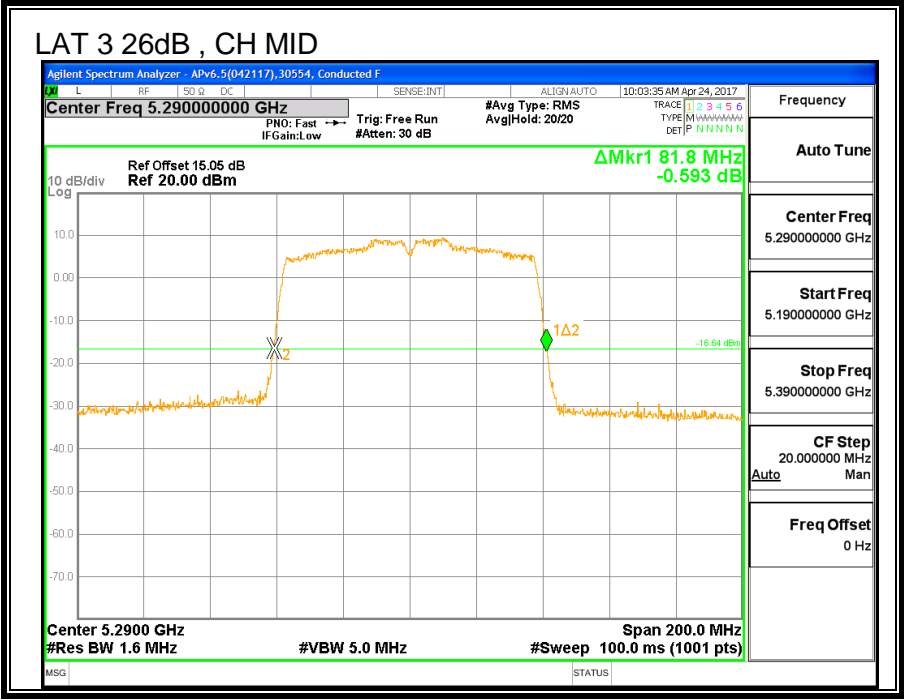
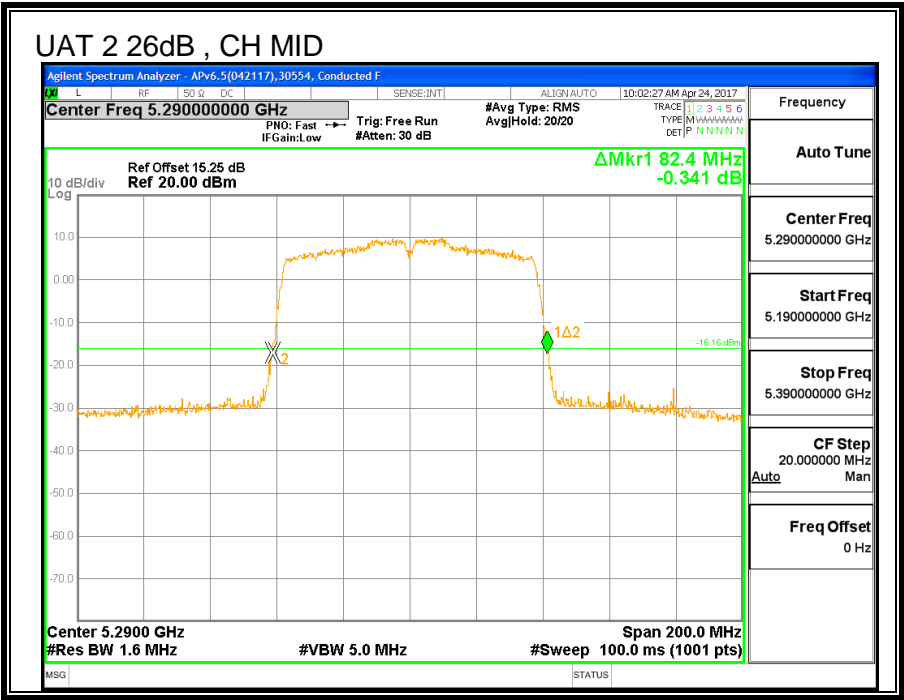
**8.18.1. 26 dB BANDWIDTH**

**LIMITS**

None; for reporting purposes only.

**RESULTS**

Channel	Frequency	26 dB BW UAT 2 (MHz)	26 dB BW LAT 3 (MHz)
Mid	5290	82.4	81.8



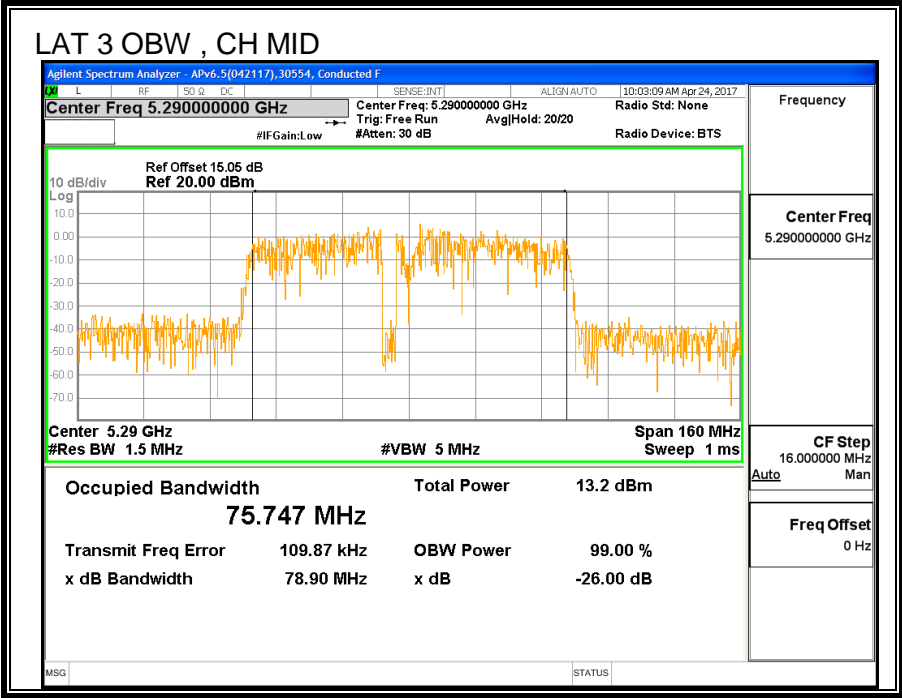
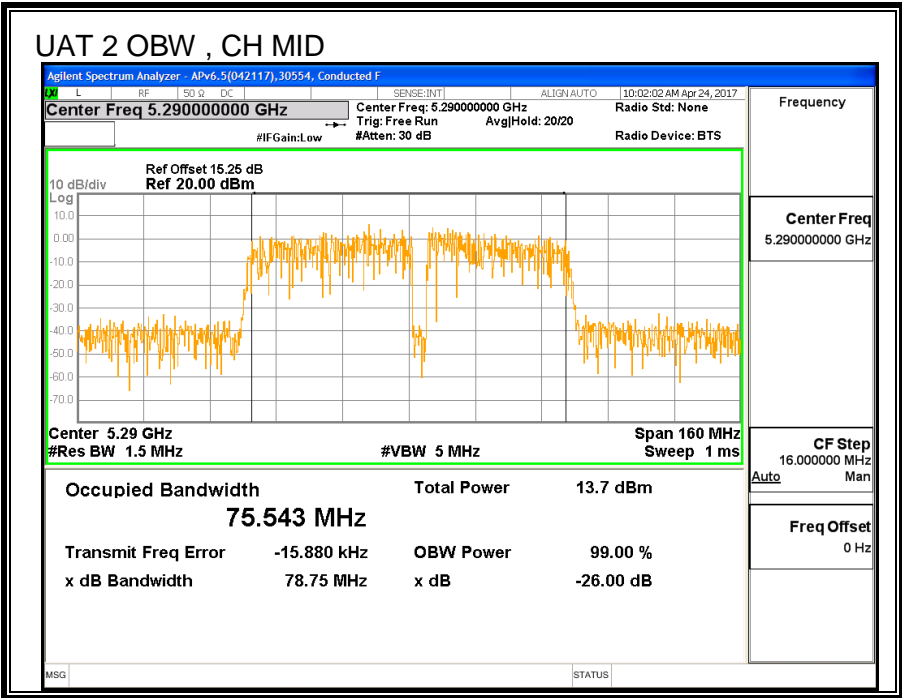
## 8.18.2. 99% BANDWIDTH

### LIMITS

None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)	99% BW LAT 3 (MHz)
Mid	5290	75.543	75.747



### 8.18.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

##### Average Power Results

Channel	Frequency (MHz)	UAT 2 Power (dBm)	LAT 3 Power (dBm)	Total Power (dBm)
Mid	5290	14.42	14.35	17.40



## 8.18.4. OUTPUT POWER AND PPSD

### LIMITS

FCC §15.407 (a) (2)

For the band 5.25–5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

### DIRECTIONAL ANTENNA GAIN

For Power used uncorrelated gain The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-3.51	-1.17	-2.18

For PSD used correlated gain The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-3.51	-1.17	0.75

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Mid	5290	81.80	75.54	-2.18	0.75	24	11.0

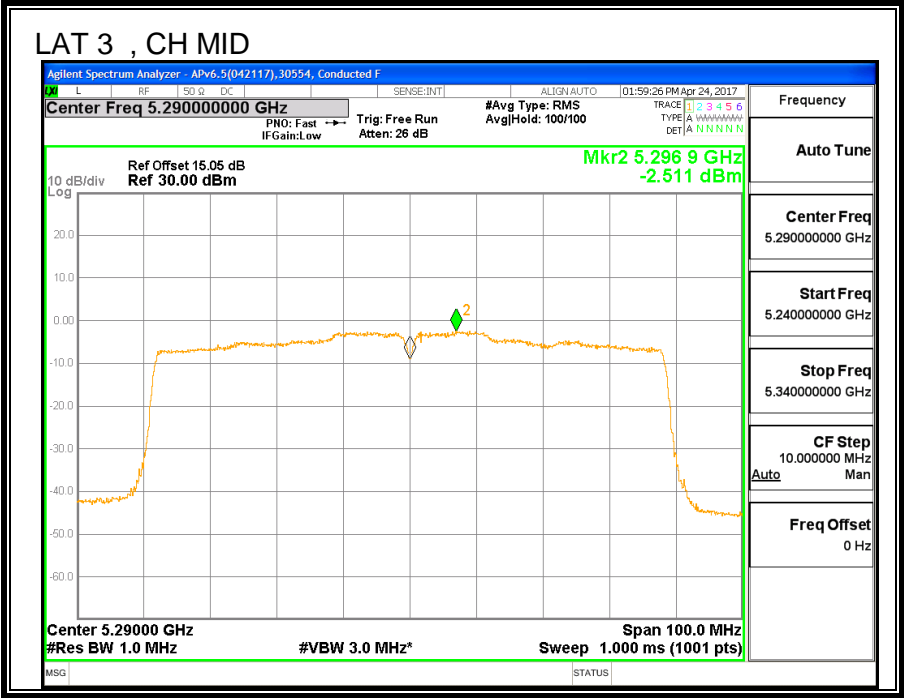
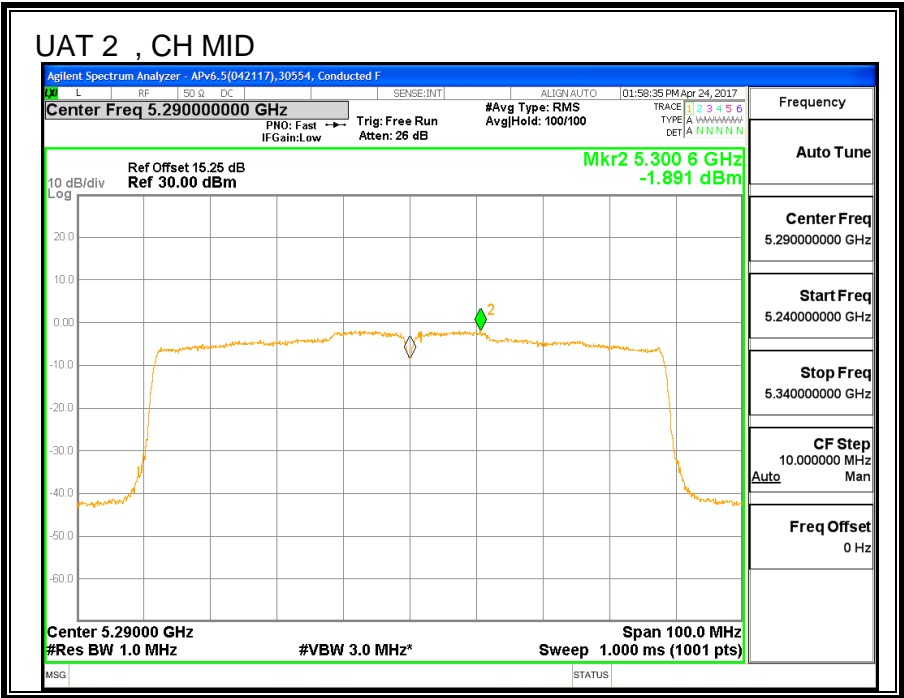
Duty Cycle CF (dB)	0.20	Included in Calculations of Corr'd PSD
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### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.42	14.35	17.40	24.00	-6.60

### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5290	-1.89	-2.51	1.02	11.00	-9.98



## **8.19. 11n HT20 UAT 2 SISO MODE IN THE 5.6GHz BAND**

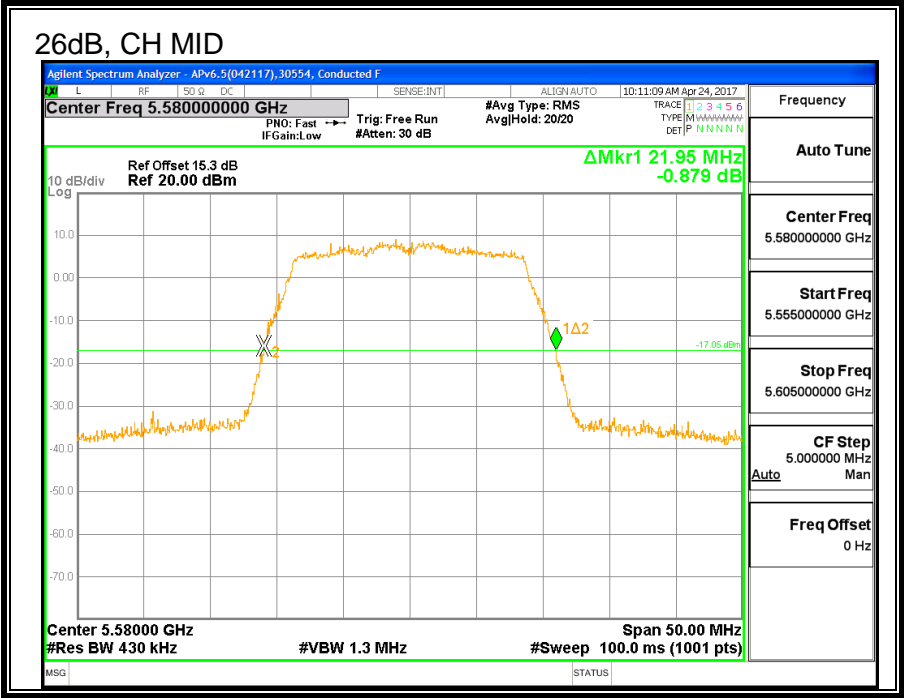
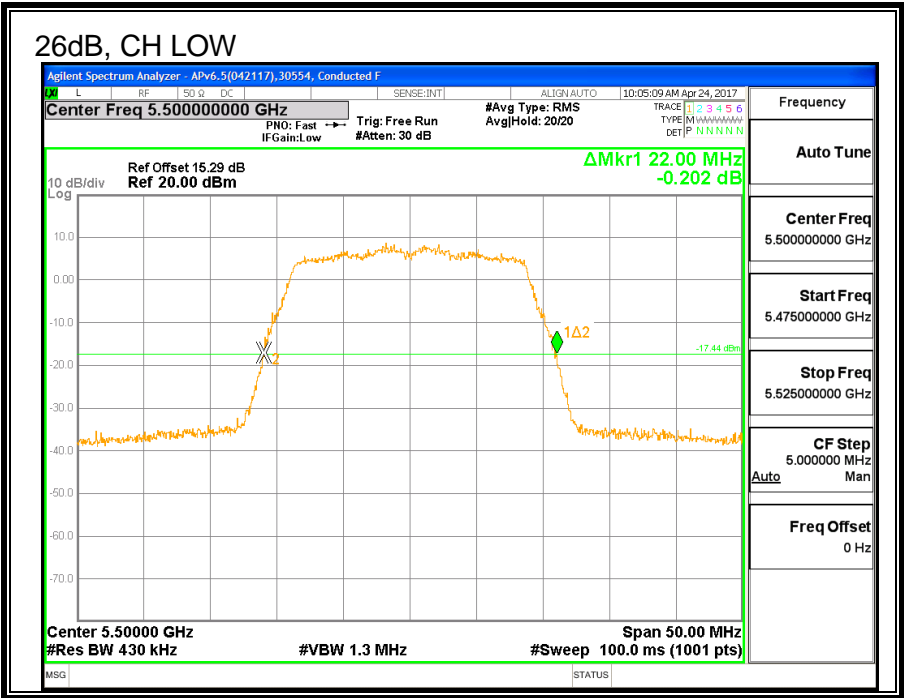
### **8.19.1. 26 dB BANDWIDTH**

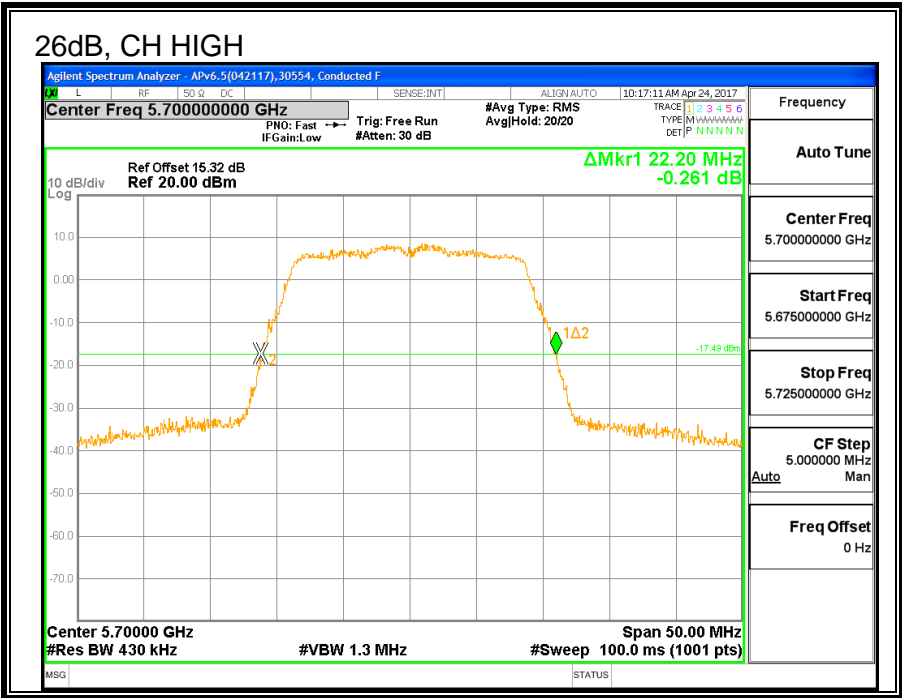
#### **LIMITS**

None; for reporting purposes only.

#### **RESULTS**

<b>Channel</b>	<b>Frequency</b>	<b>26 dB BW UAT 2 (MHz)</b>
Low	5500	22.00
Mid	5580	21.95
High	5700	22.20
144	5720	22.05





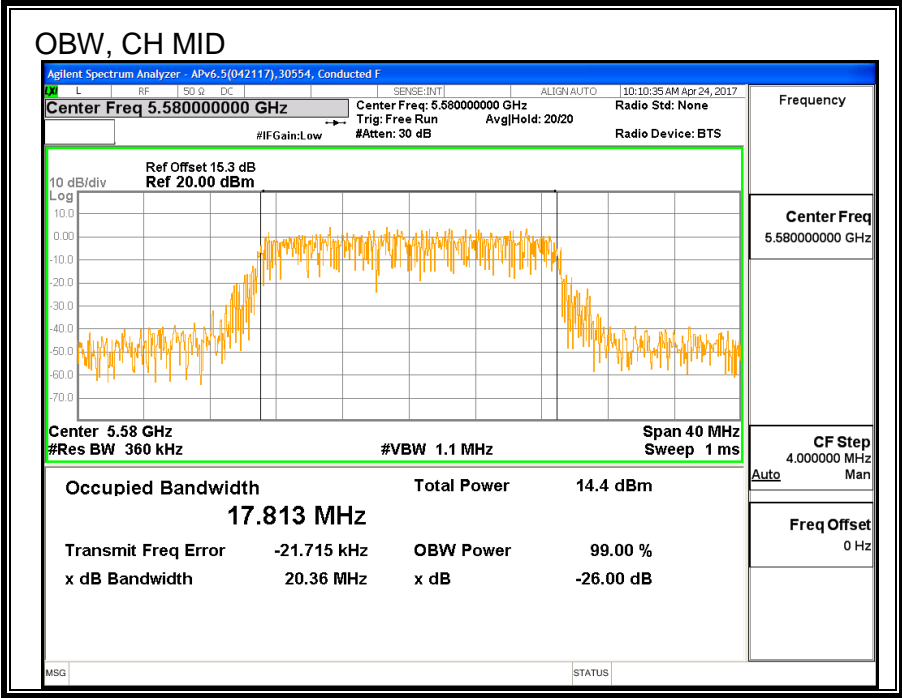
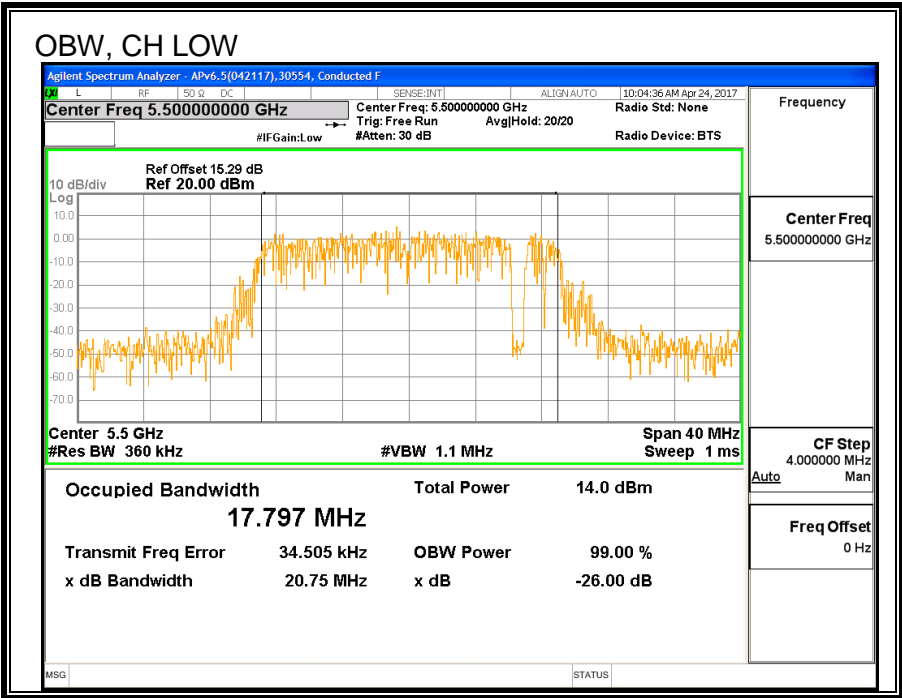
## 8.19.2. 99% BANDWIDTH

### LIMITS

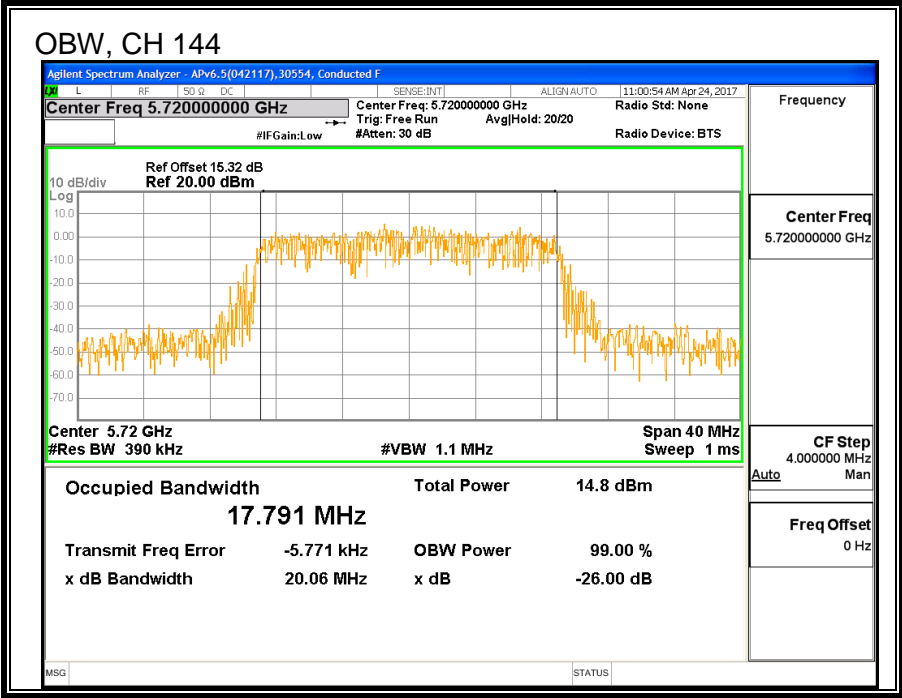
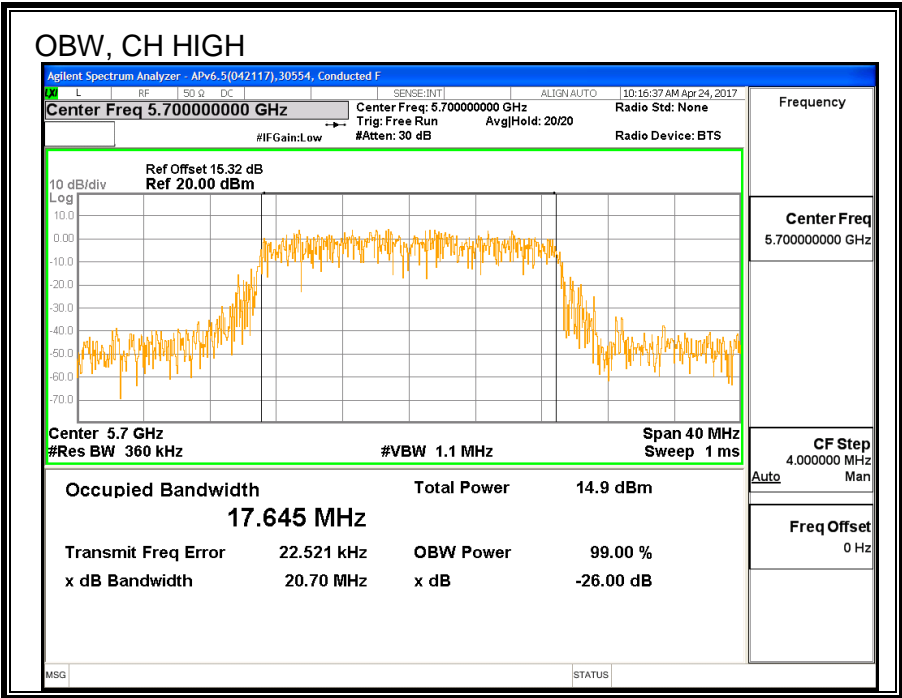
None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)
Low	5500	17.797
Mid	5580	17.813
High	5700	17.645
144	5720	17.791







### 8.19.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power UAT 2 (dBm)
Low	5500	16.45
Mid	5580	20.89
High	5700	16.76
144	5720	20.92

## **8.19.4. OUTPUT POWER AND PPSD**

### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

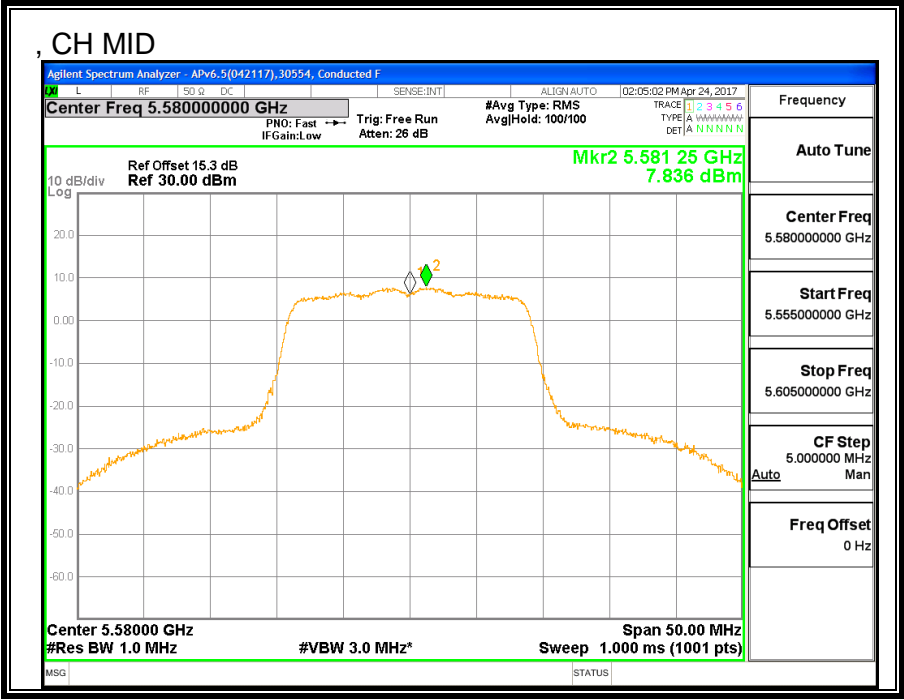
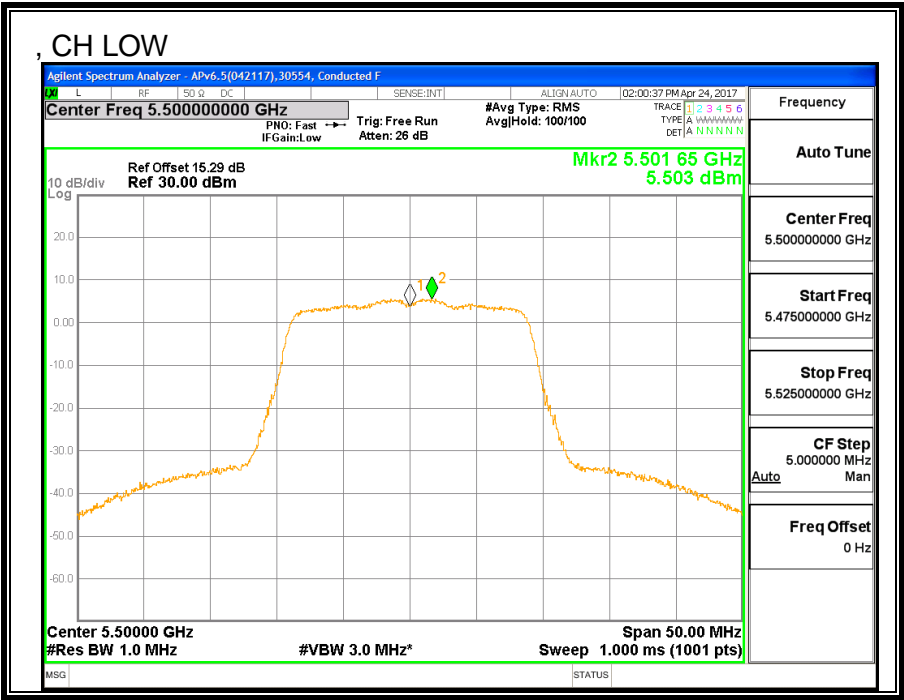
Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	22.00	17.80	-2.62	23.50	11.00
Mid	5580	21.95	17.81	-2.62	23.51	11.00
High	5700	22.20	17.65	-2.62	23.47	11.00
Duty Cycle CF (dB)		0.00	Included in Calculations of Corr'd PSD			

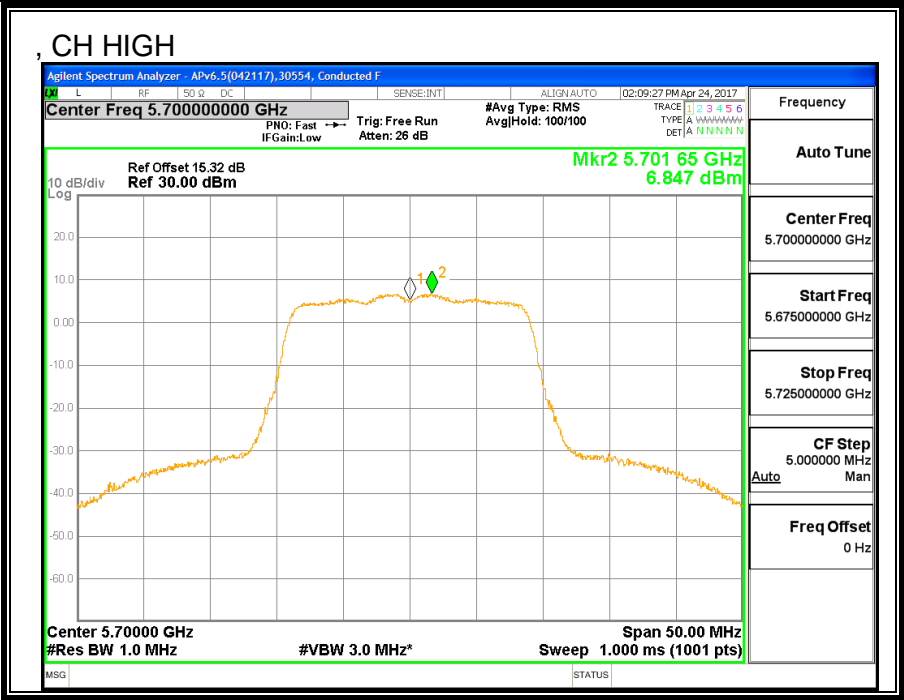
### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.45	16.45	23.50	-7.05
Mid	5580	20.89	20.89	23.51	-2.62
High	5700	16.76	16.76	23.47	-6.71

### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	5.50	5.50	11.00	-5.50
Mid	5580	7.84	7.84	11.00	-3.16
High	5700	6.85	6.85	11.00	-4.15





## 8.20. 11ac HT20 UAT 2 SISO STRADDLE CHANNEL 144

### 8.20.1. OUTPUT POWER AND PSD

#### UNII-2C BAND

##### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	22.05	-2.62	-2.62	24.00	11.00

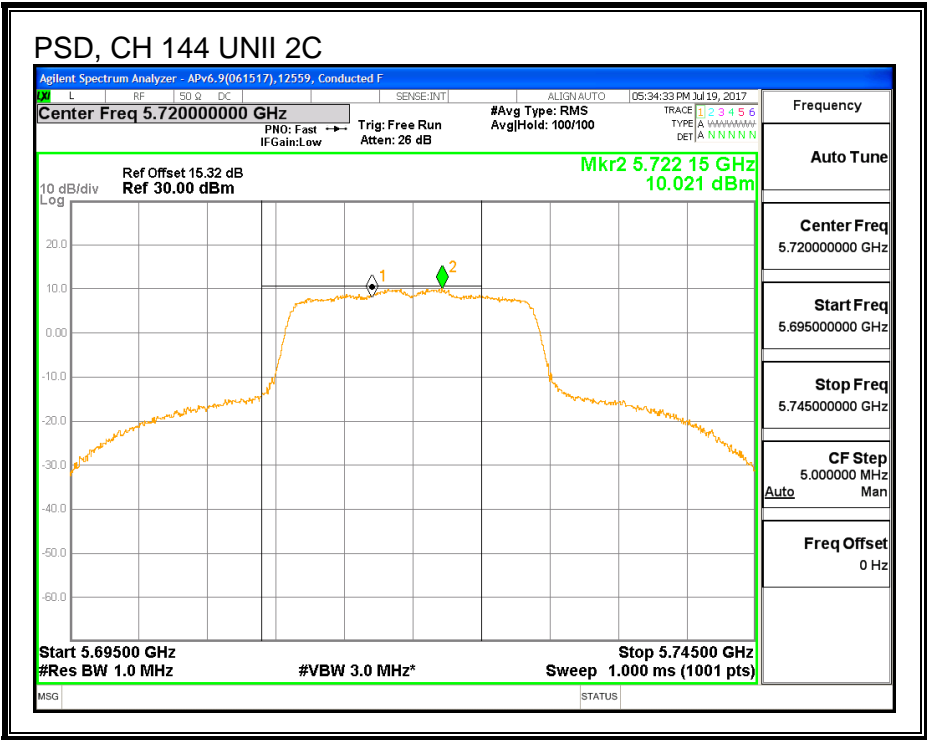
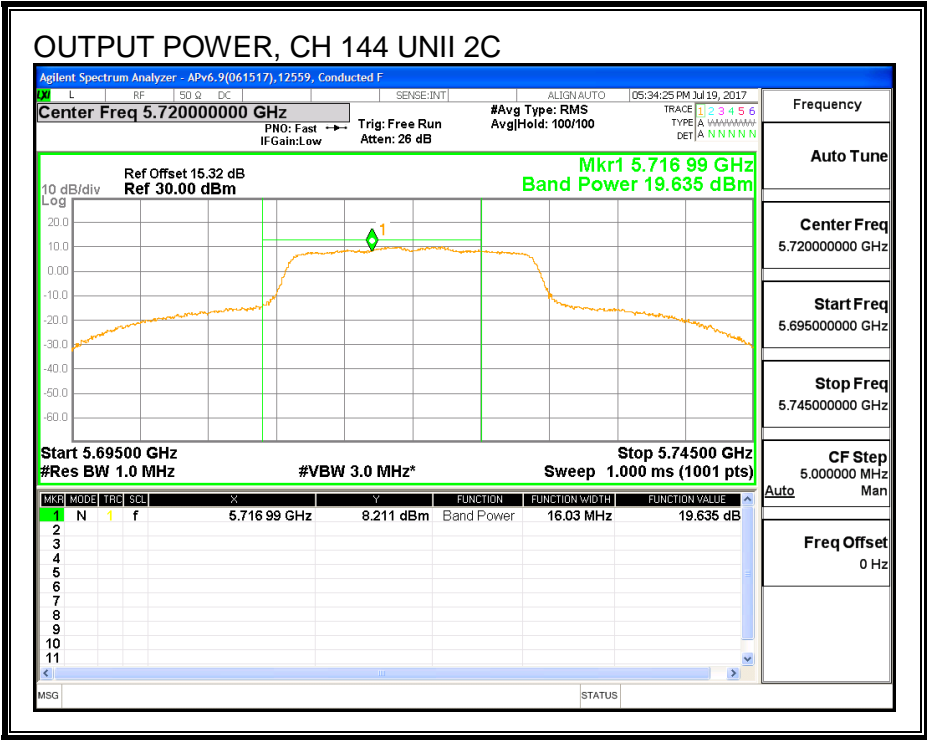
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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##### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	19.64	19.64	24.00	-4.37

##### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	10.02	10.02	11.00	-0.98





**UNII-3 BAND**

**Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	22.05	-2.61	30.00	30.00

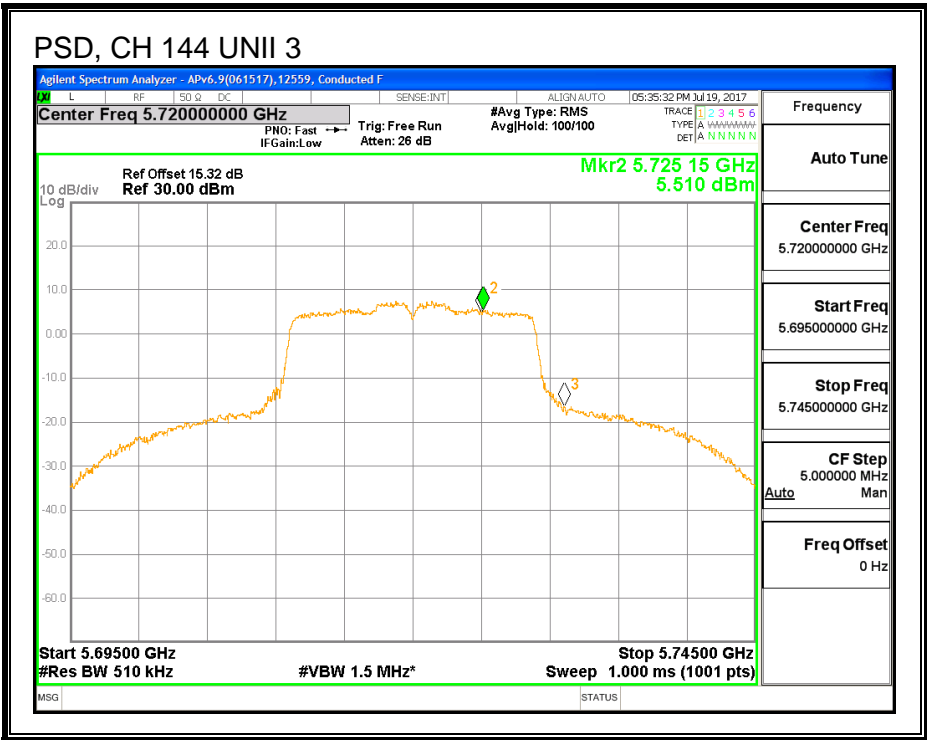
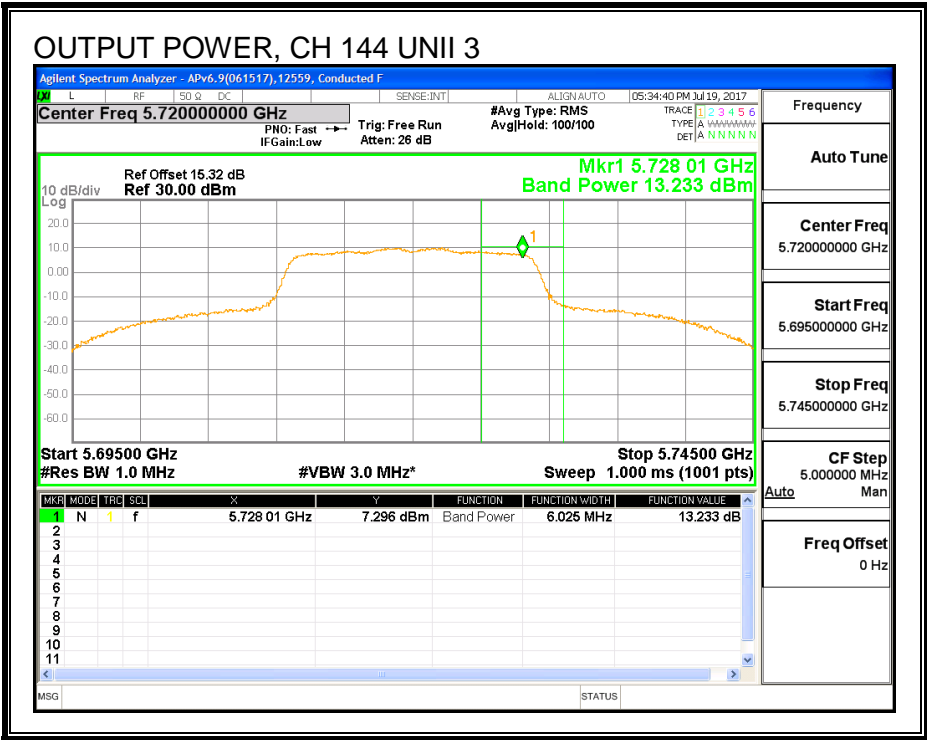
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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**Output Power Results**

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	13.233	13.233	30.00	-16.77

**PSD Results**

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	5.510	5.510	30.00	-24.49



8.20.2. 6 dB BANDWIDTH

LIMITS

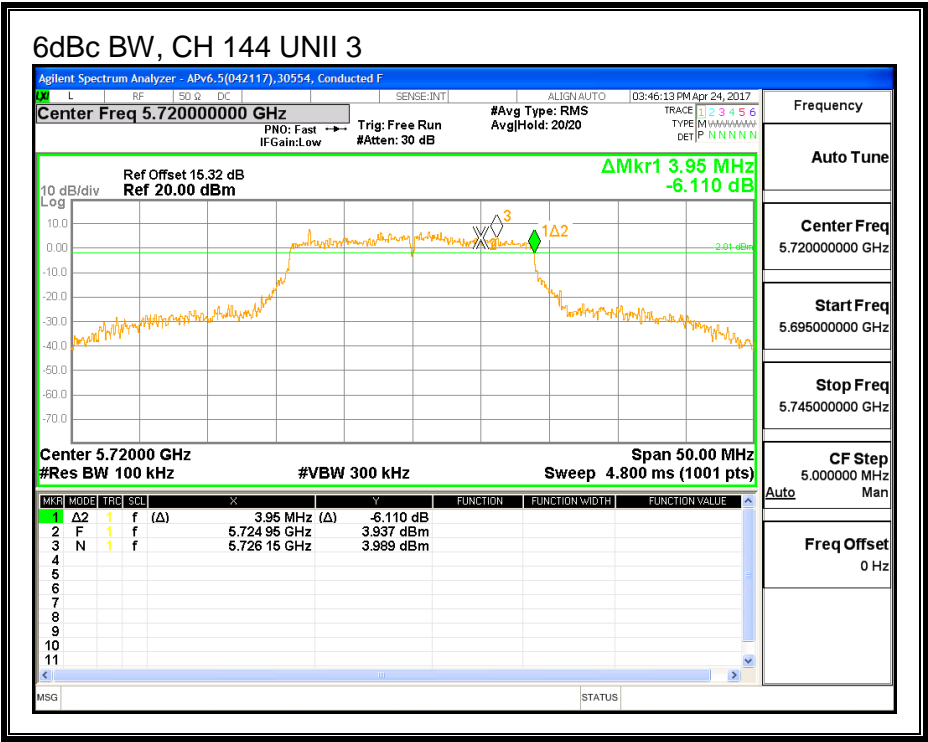
FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
High	5720	3.95

6 dB BANDWIDTH



## 8.21. 11n HT20 LAT 3 SISO MODE IN THE 5.6GHz BAND

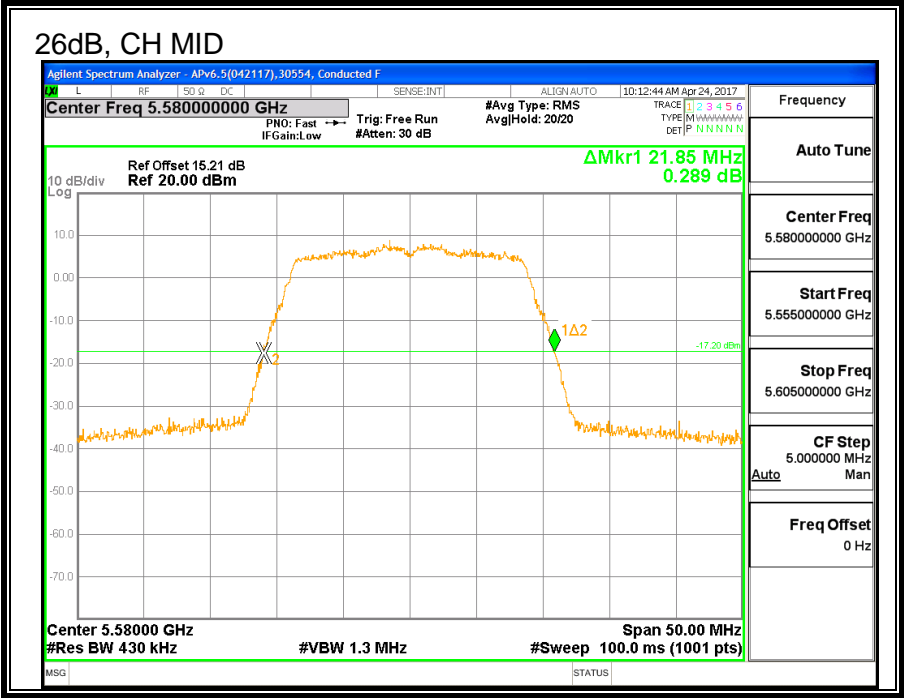
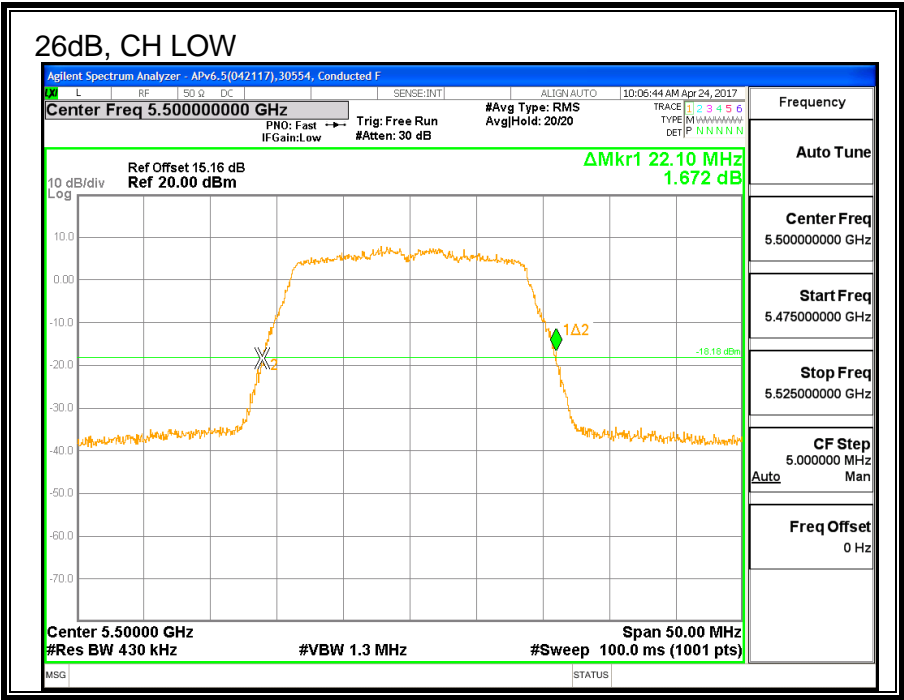
### 8.21.1. 26 dB BANDWIDTH

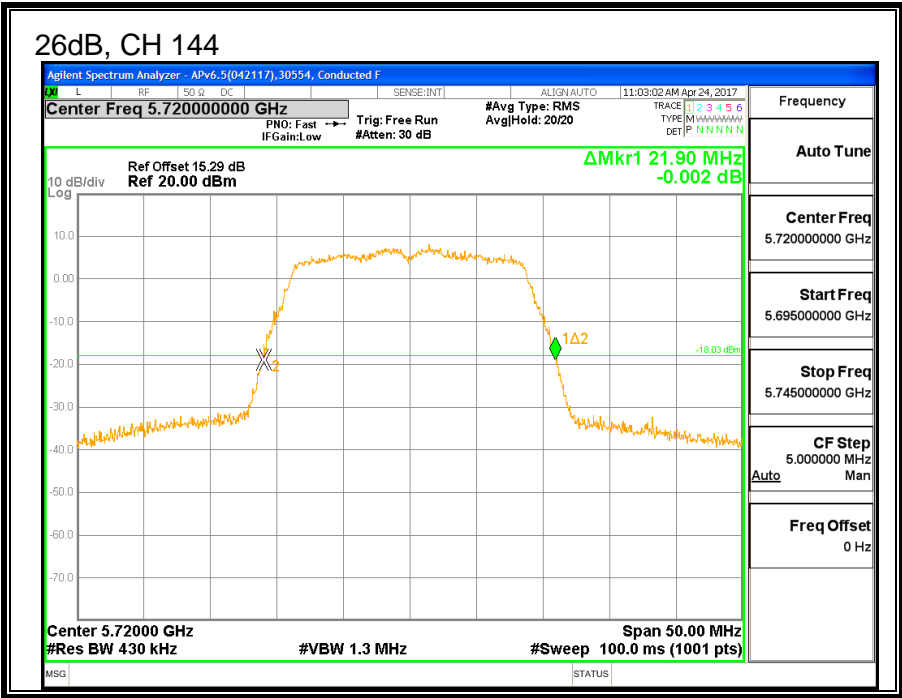
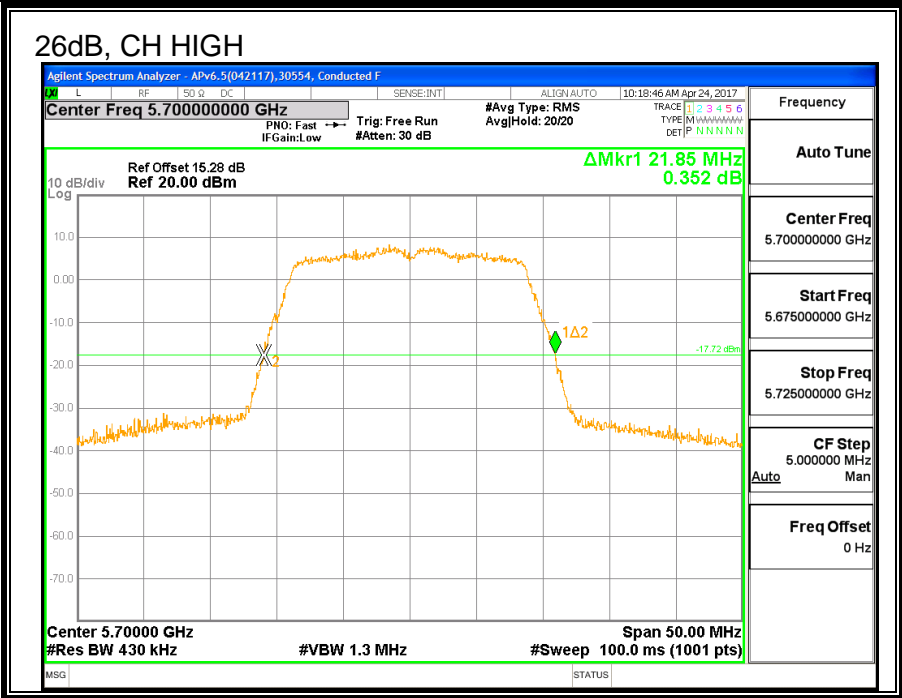
#### LIMITS

None; for reporting purposes only.

#### RESULTS

Channel	Frequency	26 dB BW LAT 3 (MHz)
Low	5500	22.10
Mid	5580	21.85
High	5700	21.85
144	5720	21.90





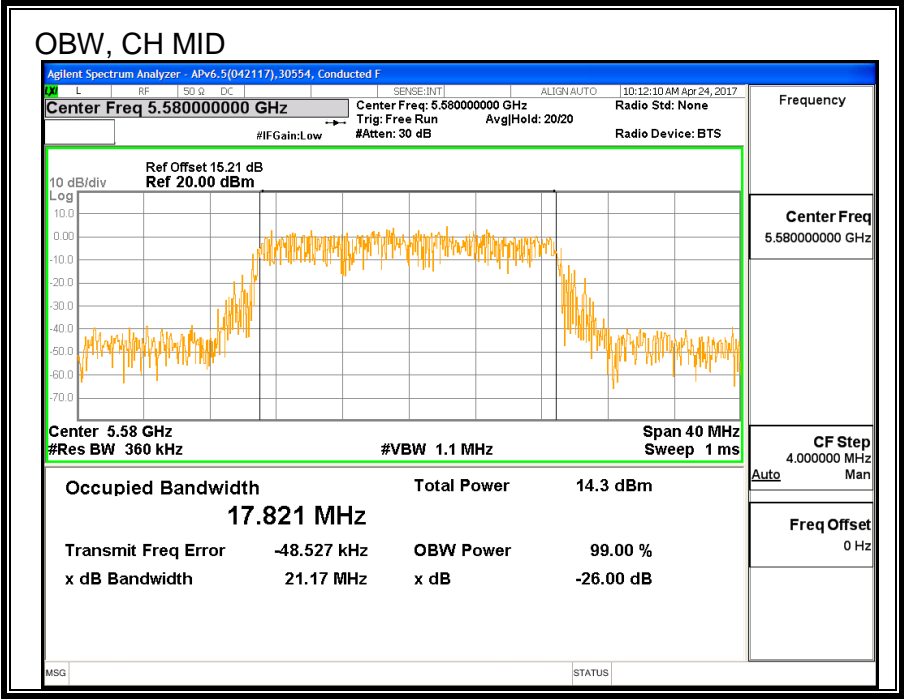
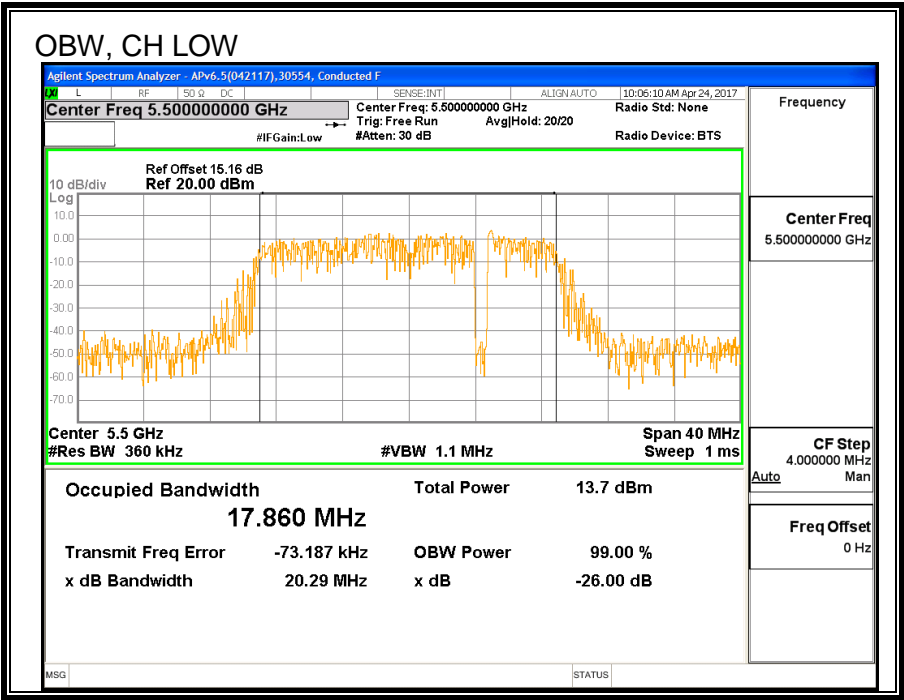
## 8.21.2. 99% BANDWIDTH

### LIMITS

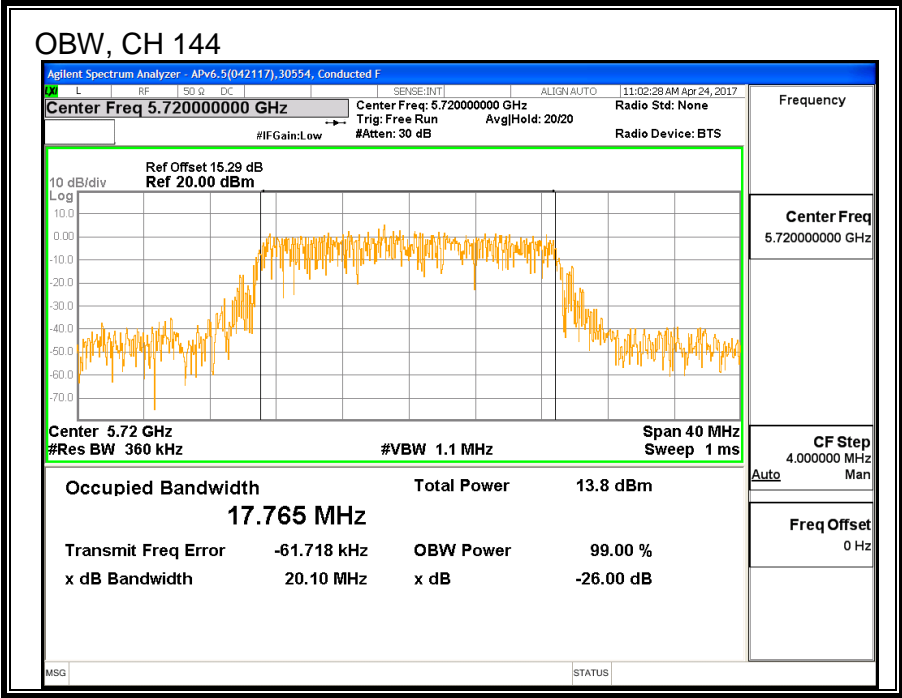
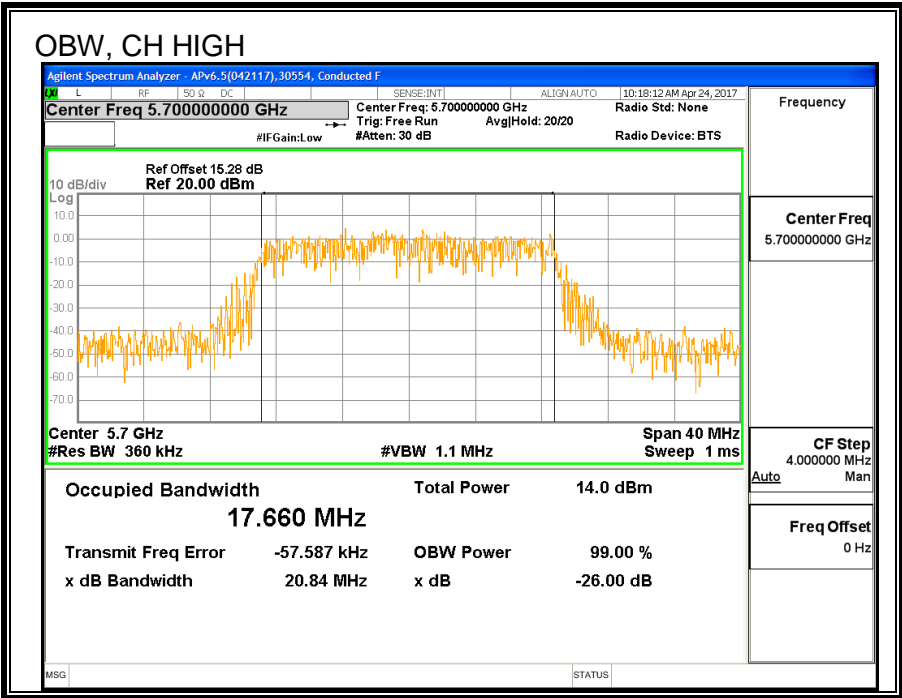
None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW LAT 3 (MHz)
Low	5500	17.860
Mid	5580	17.821
High	5700	17.660
144	5720	17.765







### 8.21.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power LAT 3 (dBm)
Low	5500	16.31
Mid	5580	20.78
High	5700	16.82
144	5720	20.94

## **8.21.4. OUTPUT POWER AND PPSD**

### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

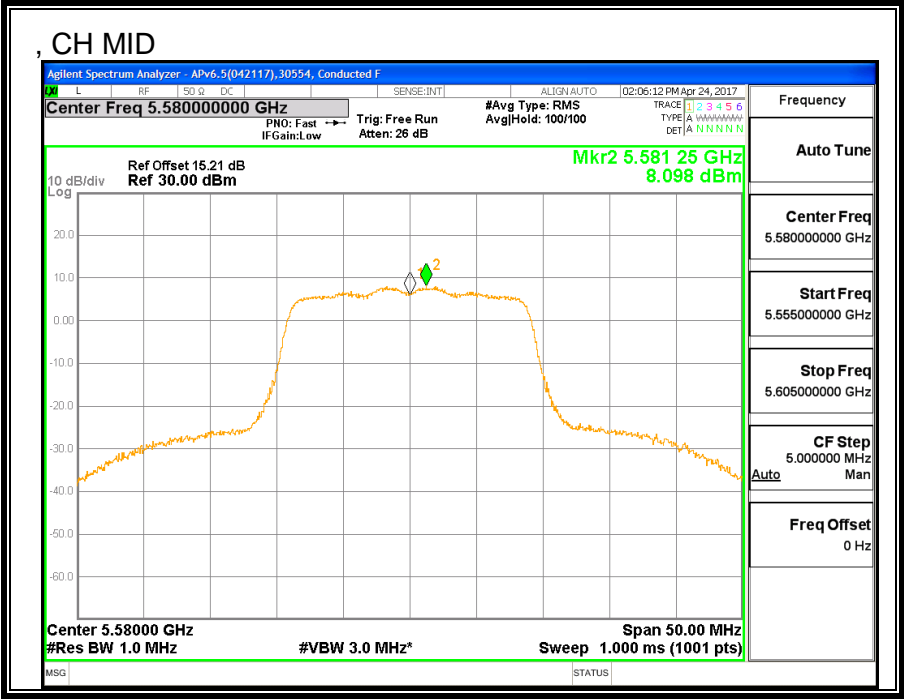
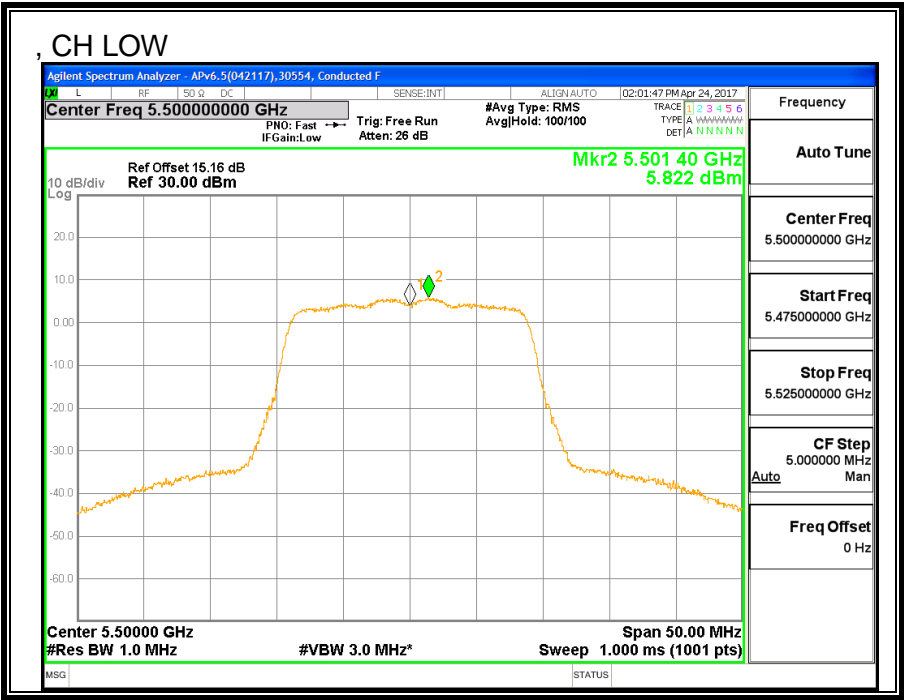
Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	22.10	17.86	-0.13	23.52	11.00
Mid	5580	21.85	17.82	-0.13	23.51	11.00
High	5700	21.85	17.66	-0.13	23.47	11.00
Duty Cycle CF (dB)		0.00	Included in Calculations of Corr'd PSD			

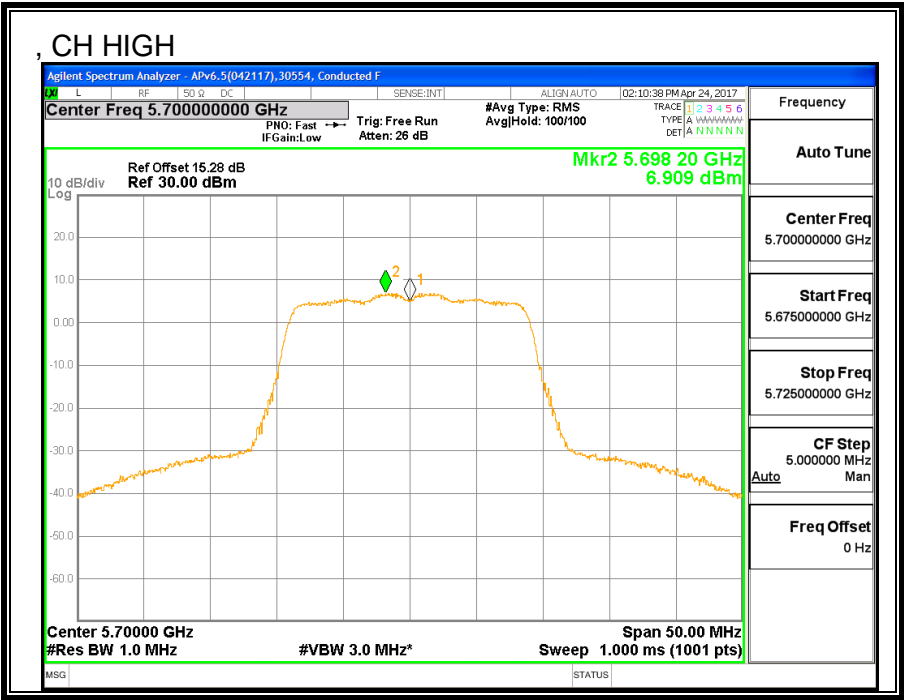
### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.31	16.31	23.52	-7.21
Mid	5580	20.78	20.78	23.51	-2.73
High	5700	16.82	16.82	23.47	-6.65

### PSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	5.82	5.82	11.00	-5.18
Mid	5580	8.10	8.10	11.00	-2.90
High	5700	6.91	6.91	11.00	-4.09





## 8.22. 11ac HT20 LAT 3 SISO STRADDLE CHANNEL 144

### 8.22.1. OUTPUT POWER AND PSD

#### UNII-2C BAND

##### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	21.90	-0.13	-0.13	24.00	11.00

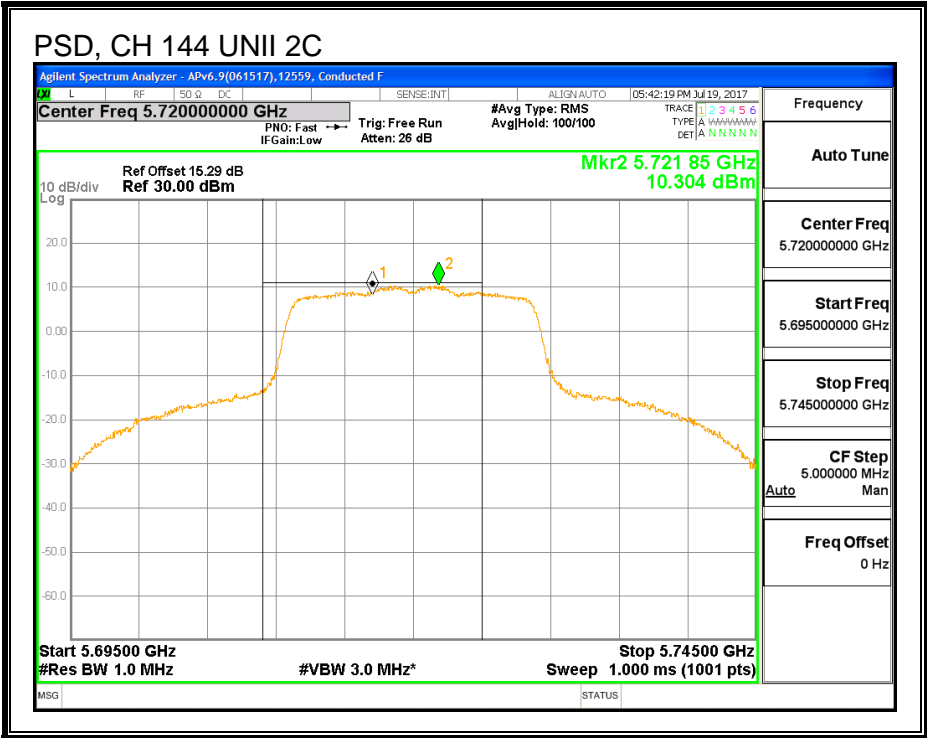
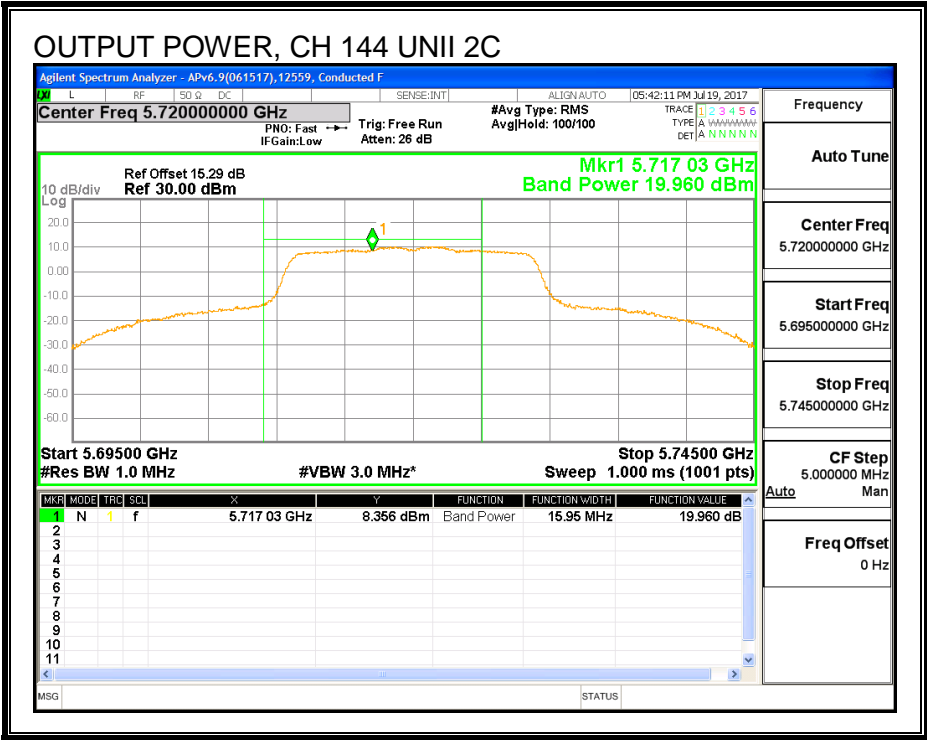
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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##### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	19.96	19.96	24.00	-4.04

##### PSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	10.30	10.30	11.00	-0.70





# **UNII-3 BAND**

## **Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	21.90	0.67	30.00	30.00

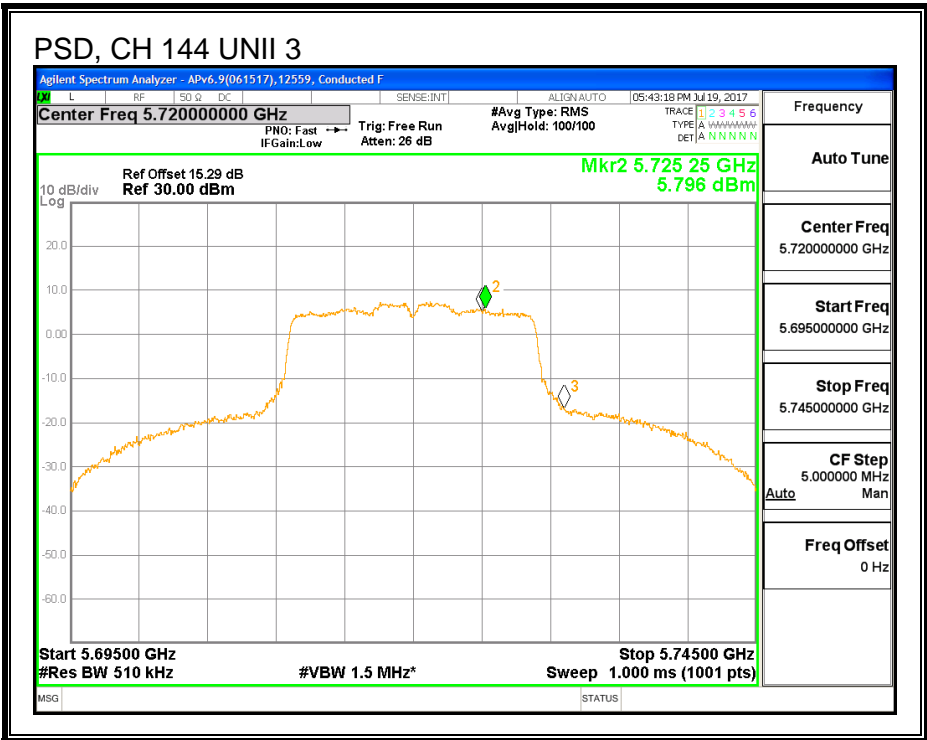
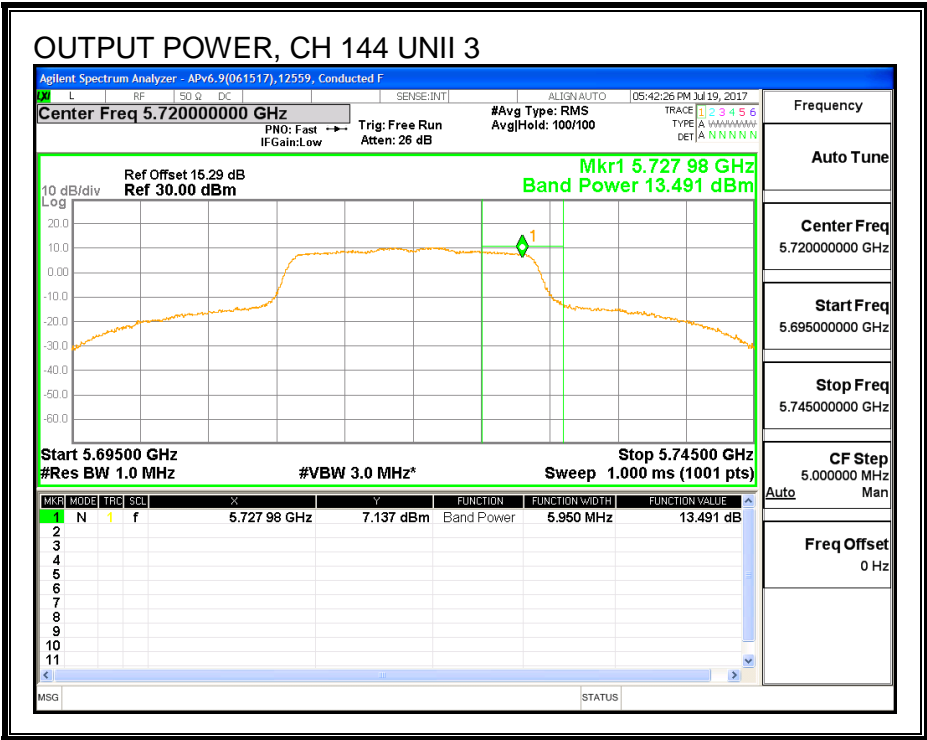
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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## **Output Power Results**

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	13.491	13.491	30.00	-16.51

## **PSD Results**

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	5.796	5.796	30.00	-24.20



8.22.2. 6 dB BANDWIDTH

LIMITS

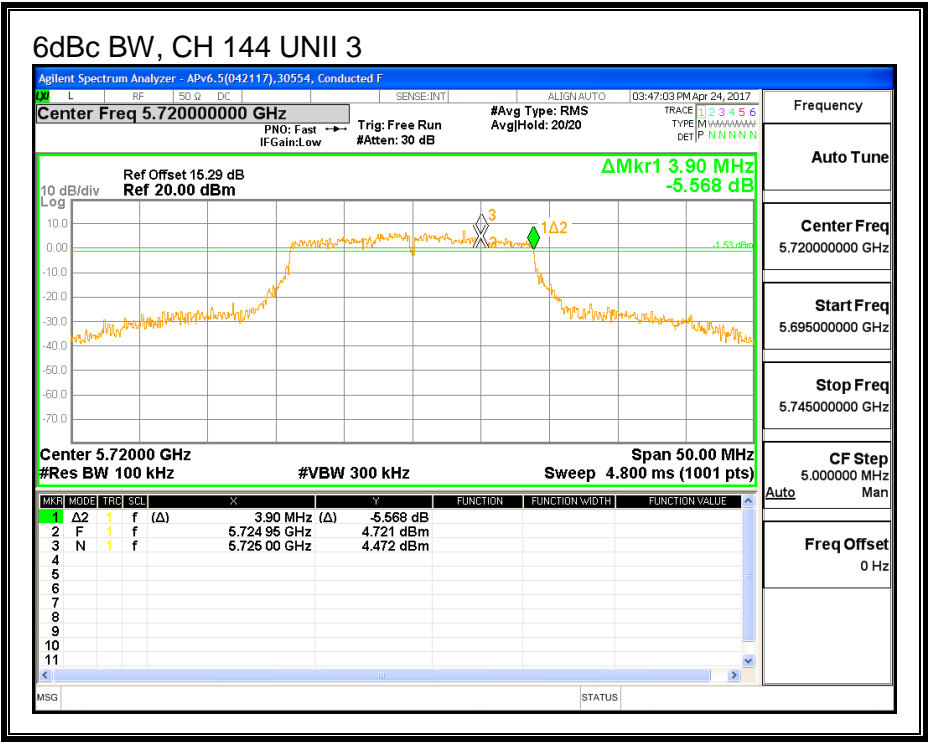
FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
High	5720	3.90

6 dB BANDWIDTH



## 8.23. 11n HT20 2TX CDD MIMO MODE IN THE 5.6GHz BAND

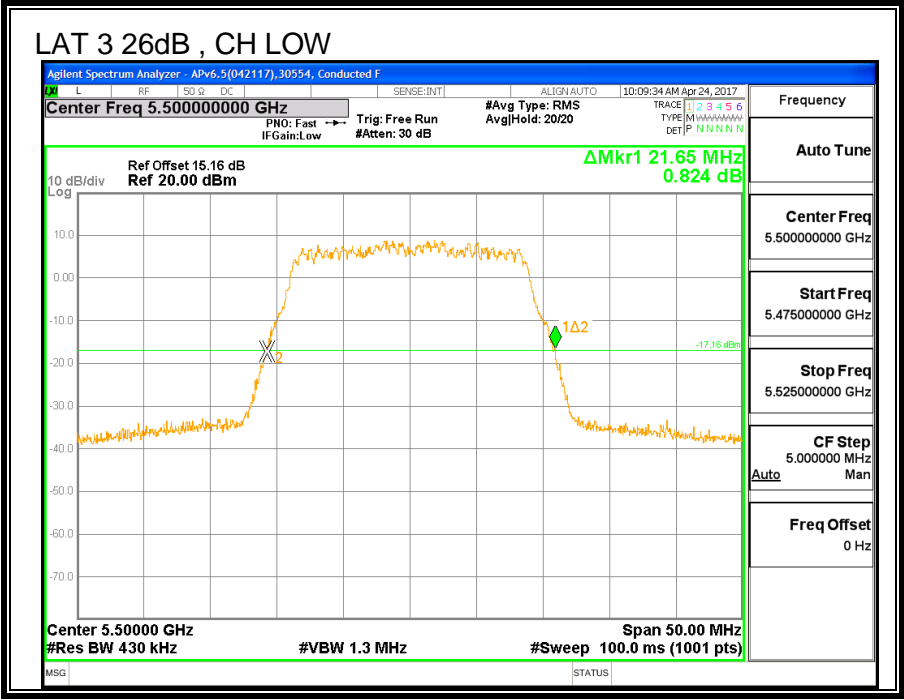
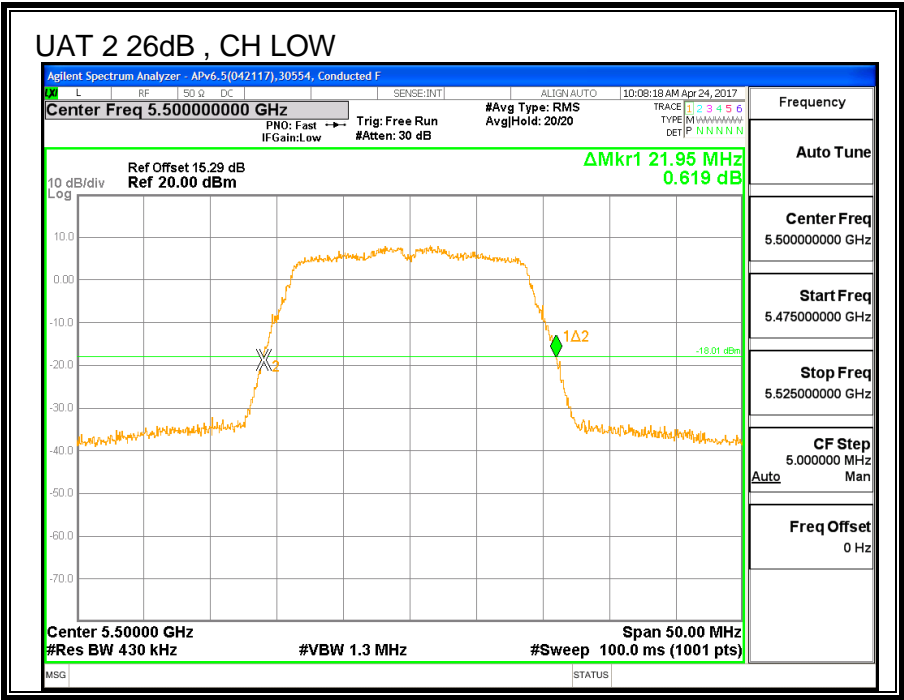
### 8.23.1. 26 dB BANDWIDTH

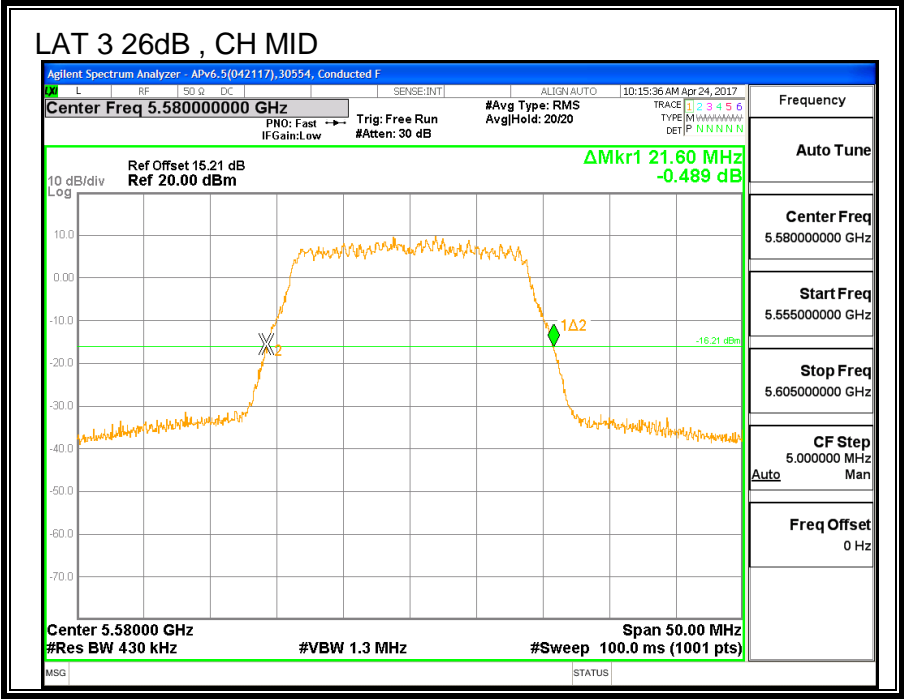
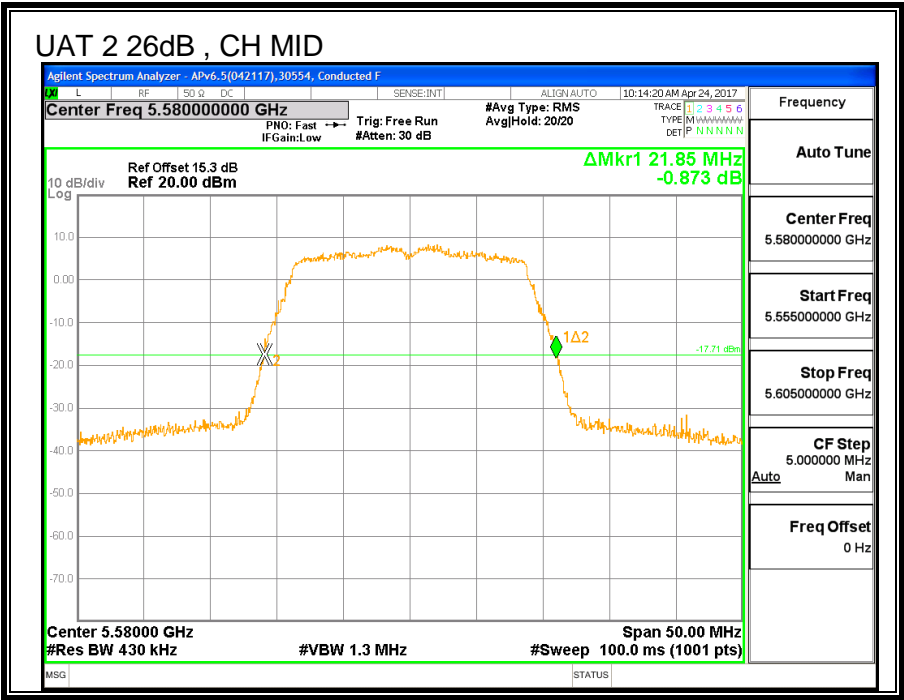
#### LIMITS

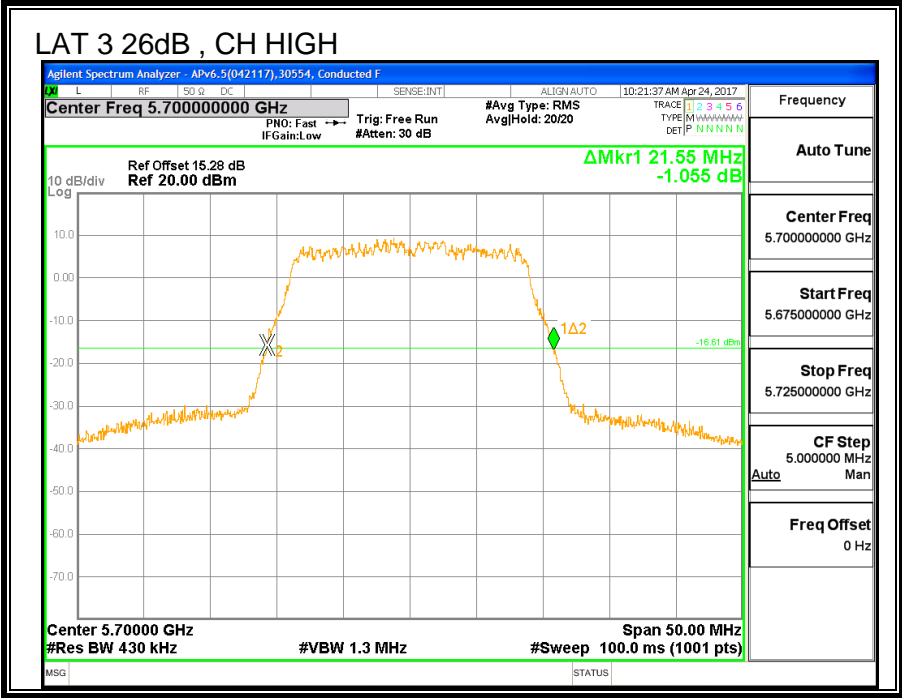
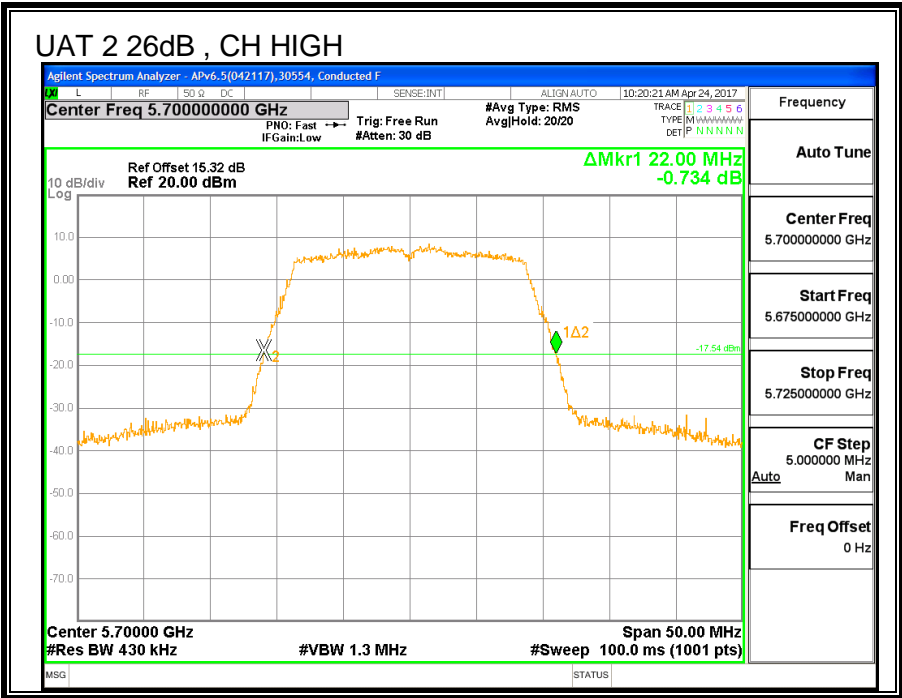
None; for reporting purposes only.

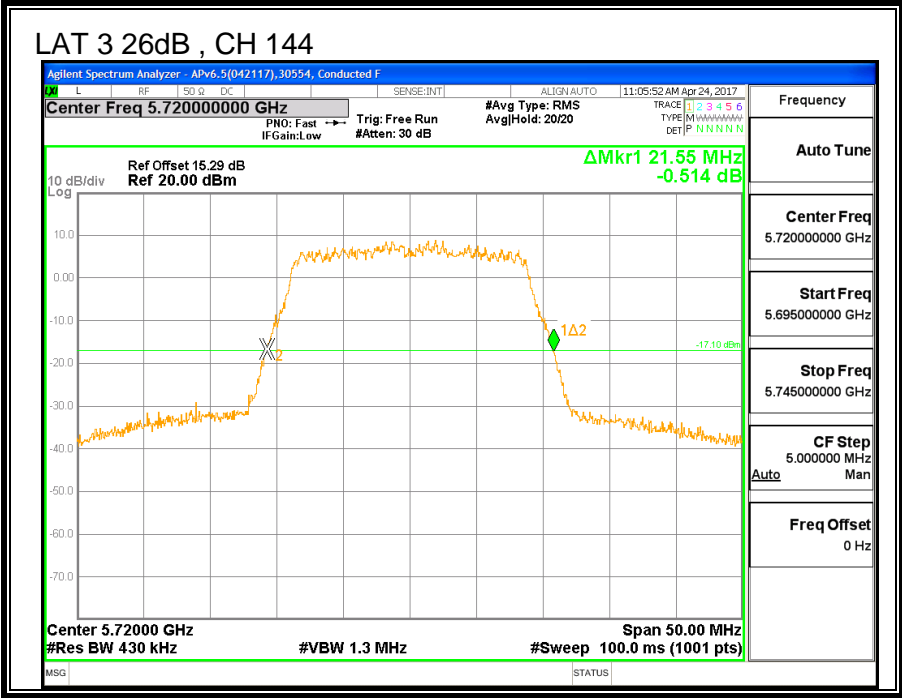
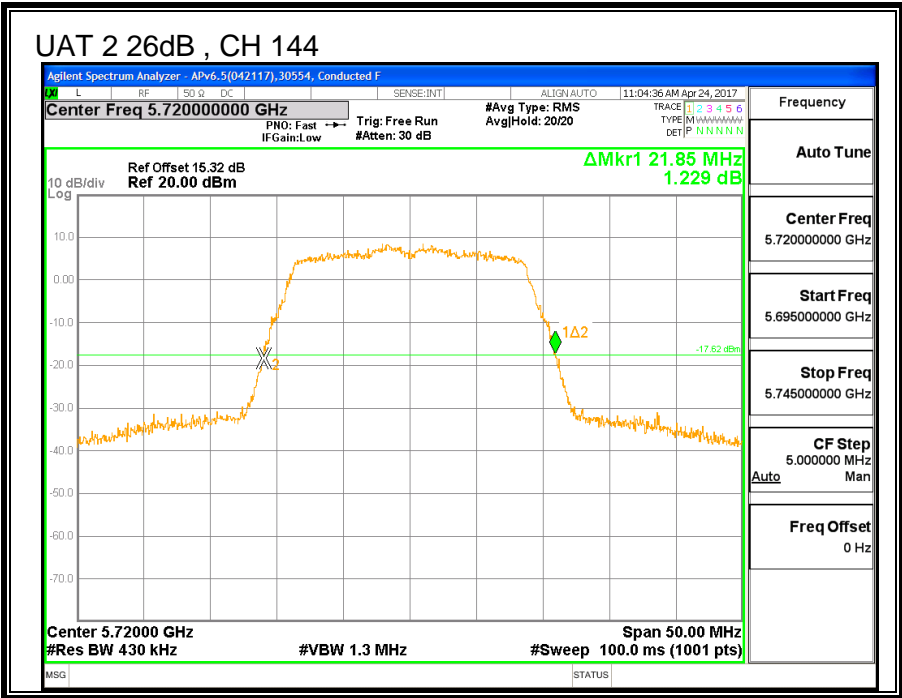
#### RESULTS

Channel	Frequency	26 dB BW UAT 2 (MHz)	26 dB BW LAT 3 (MHz)
Low	5500	21.95	21.65
Mid	5580	21.85	21.60
High	5700	22.00	21.55
144	5720	21.85	21.55











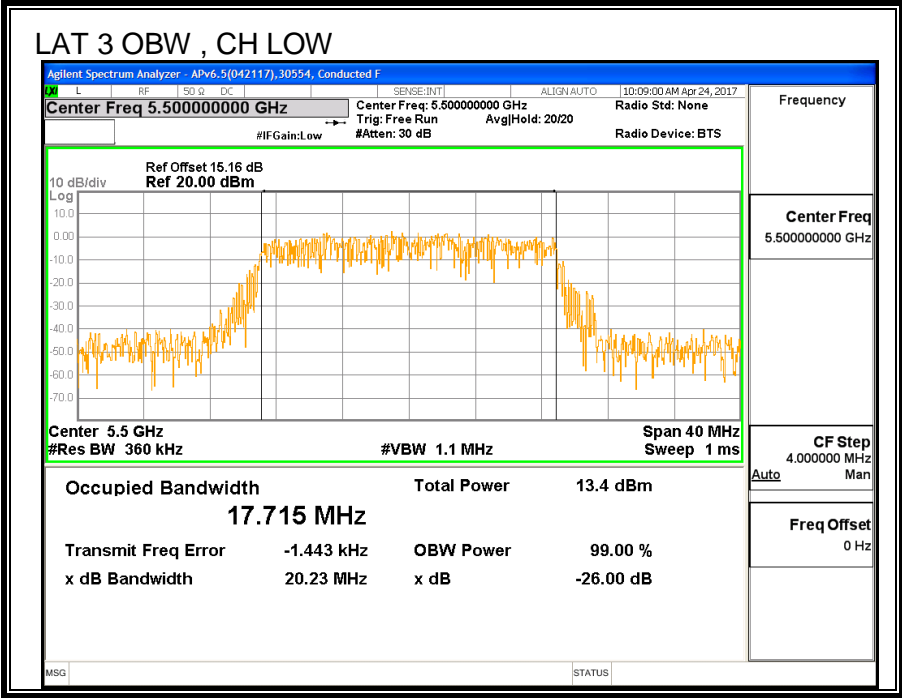
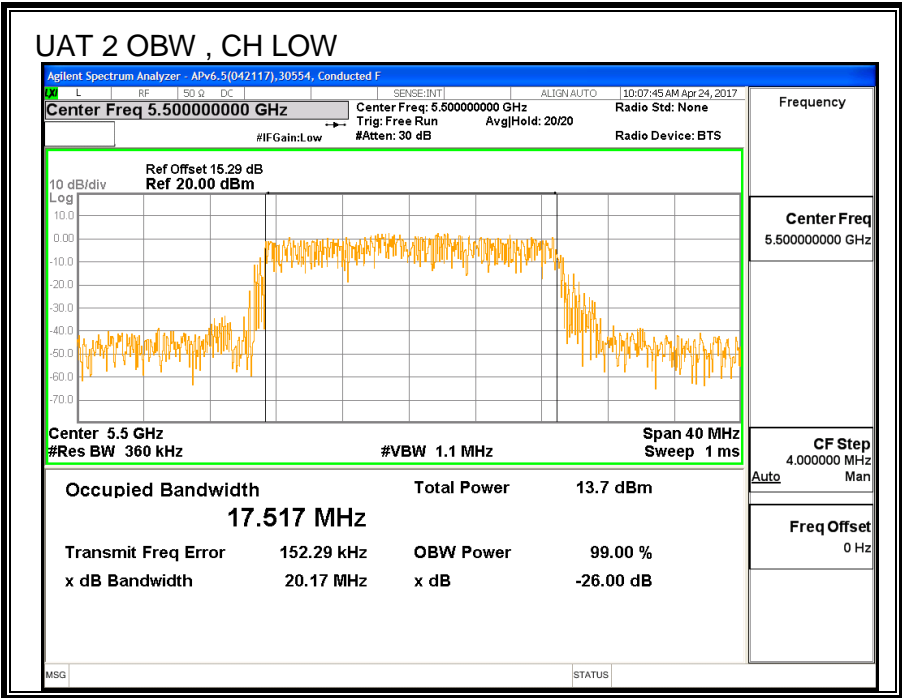
## 8.23.2. 99% BANDWIDTH

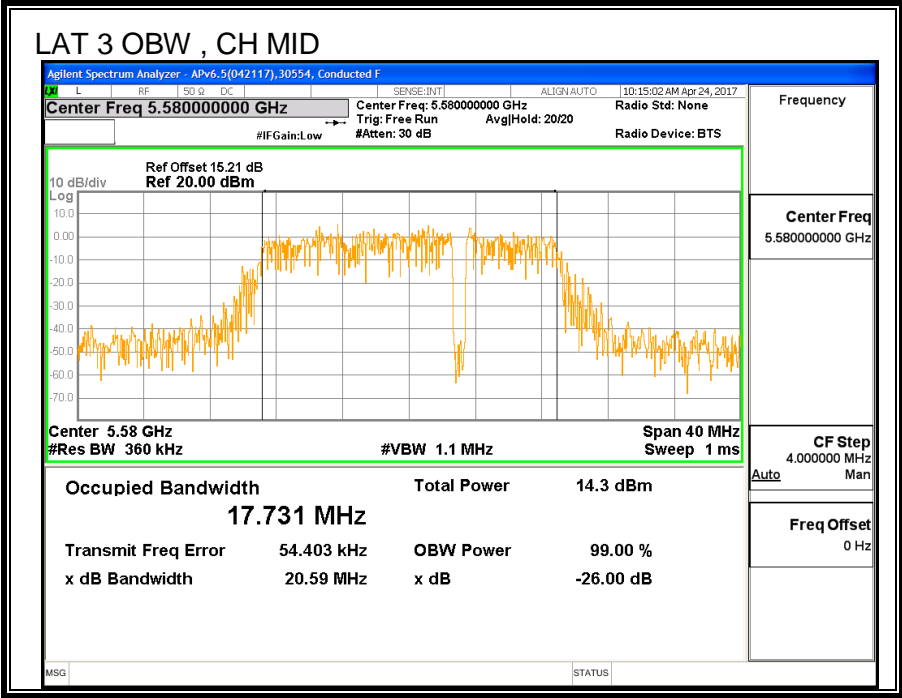
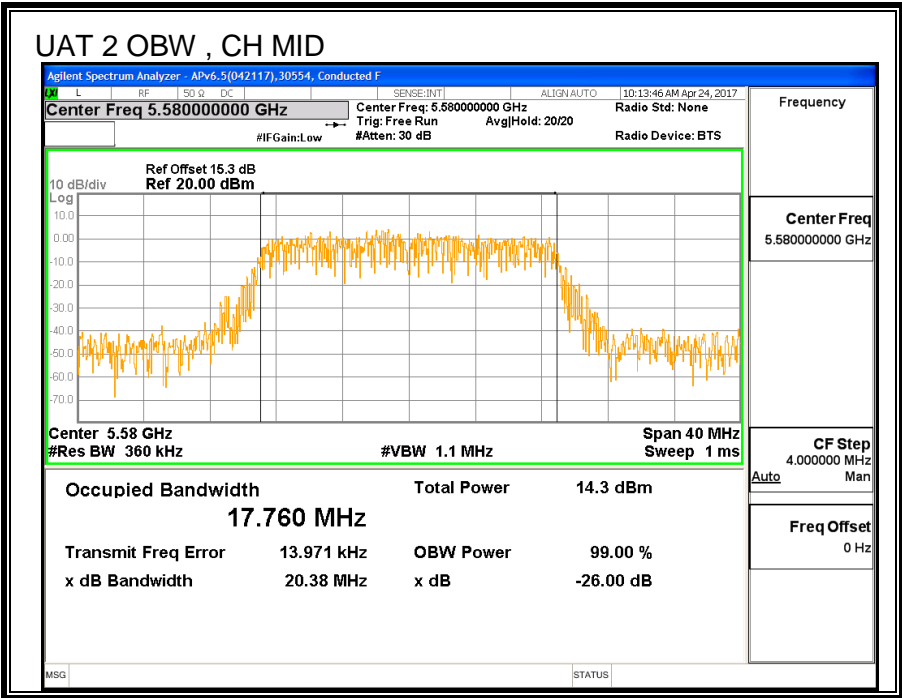
### LIMITS

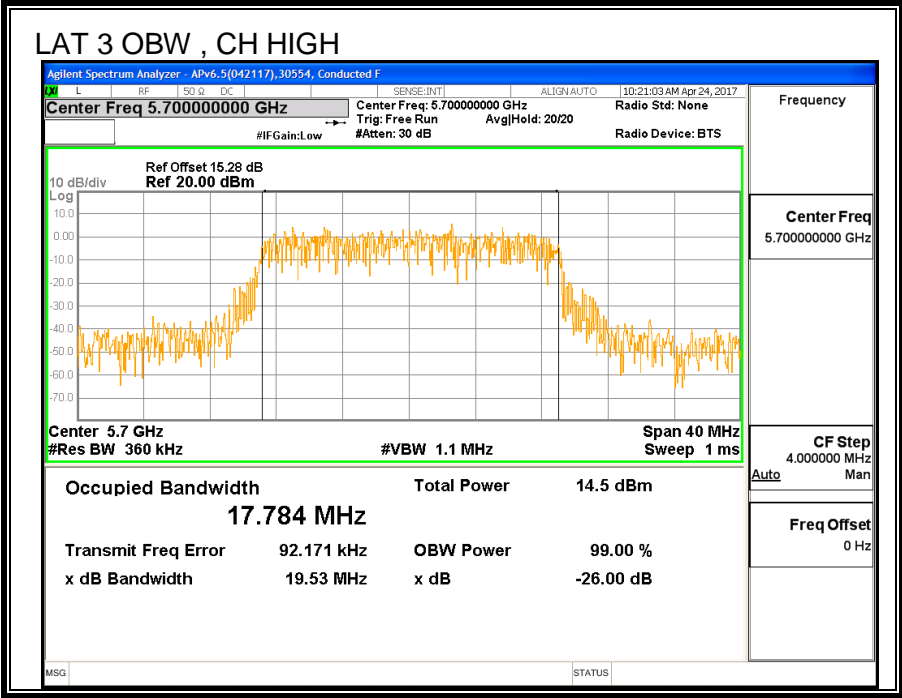
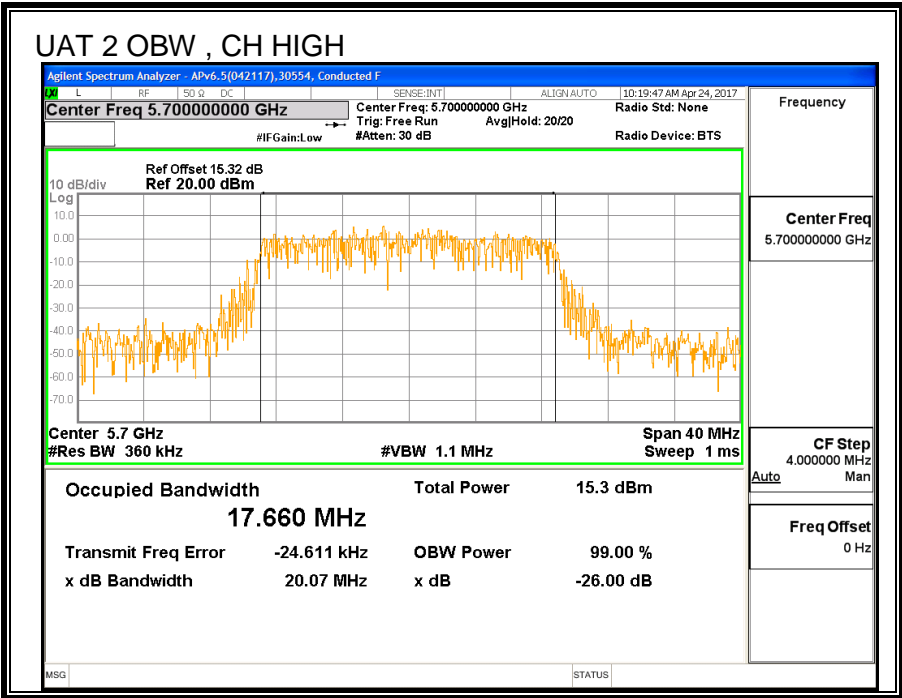
None; for reporting purposes only.

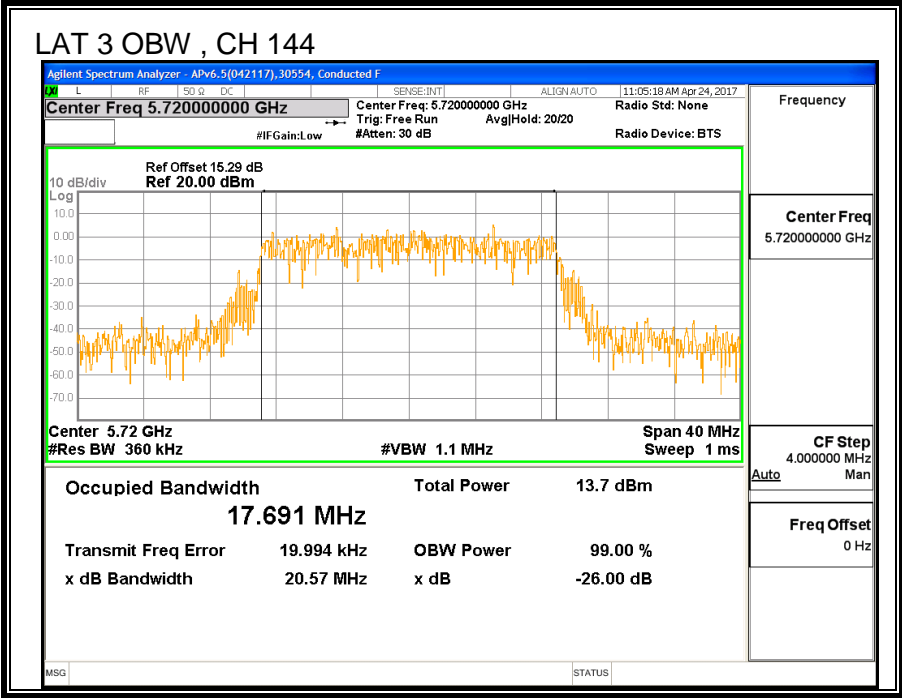
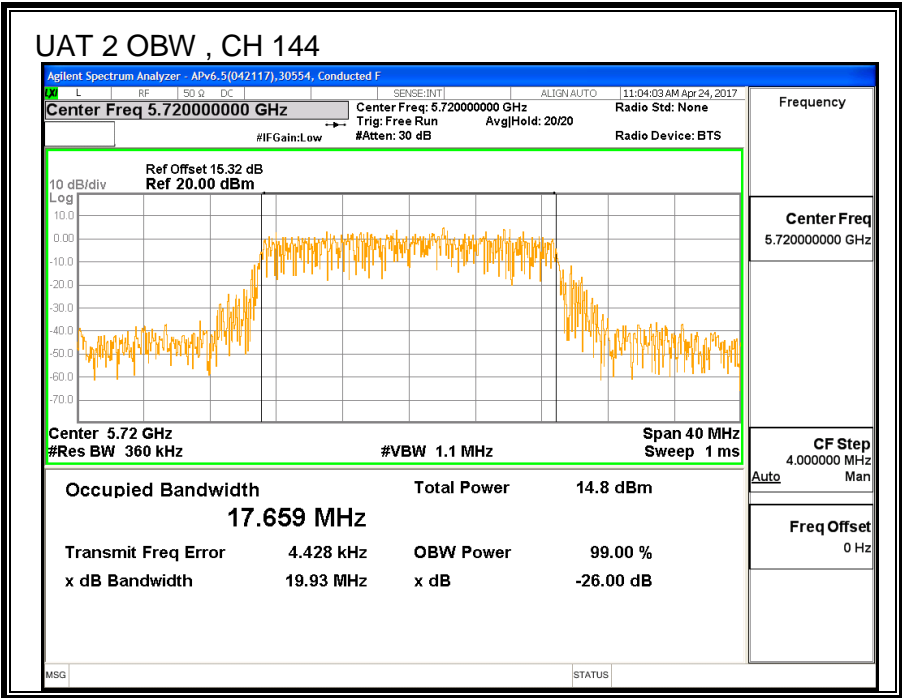
### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)	99% BW LAT 3 (MHz)
Low	5500	17.517	17.715
Mid	5580	17.760	17.731
High	5700	17.660	17.784
144	5720	17.659	17.691









### 8.23.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

##### Average Power Results

Channel	Frequency (MHz)	UAT 2 Power (dBm)	LAT 3 Power (dBm)	Total Power (dBm)
Low	5500	15.88	15.82	18.86
Mid	5580	17.89	17.86	20.89
High	5700	16.27	16.24	19.27
144	5720	17.77	17.75	20.77

## 8.23.4. OUTPUT POWER AND PPSD

### LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

### DIRECTIONAL ANTENNA GAIN

For Power used uncorrelated gain The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
-2.62	-0.13	-1.20

For PSD used correlated gain The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

UAT 2 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
-2.62	-0.13	1.72

## RESULTS

### Bandwidth, Antenna Gain and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	21.65	17.517	-1.20	1.72	23.43	11.00
Mid	5580	21.60	17.731	-1.20	1.72	23.49	11.00
High	5700	21.55	17.660	-1.20	1.72	23.47	11.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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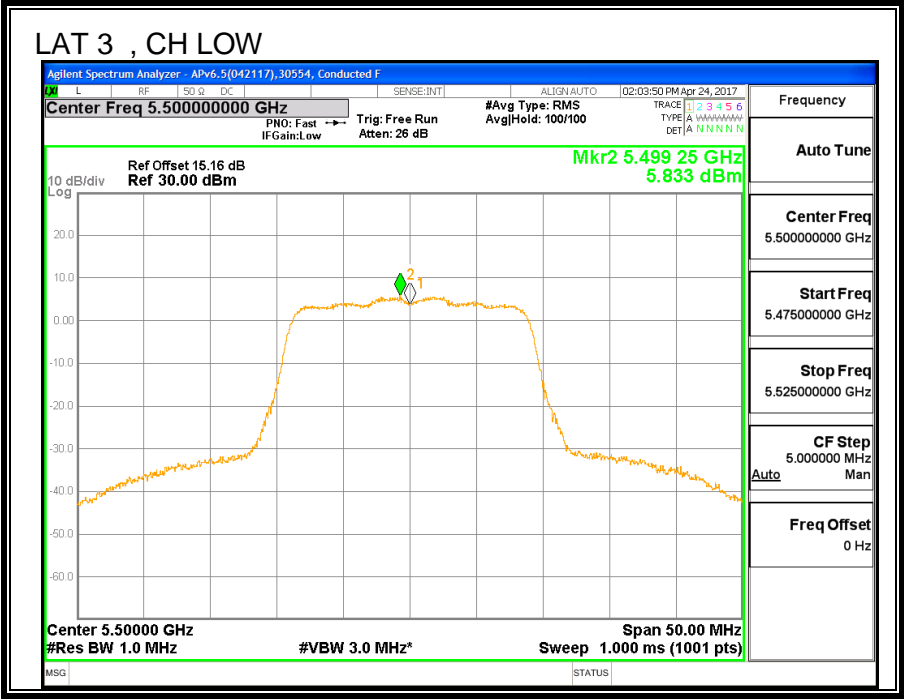
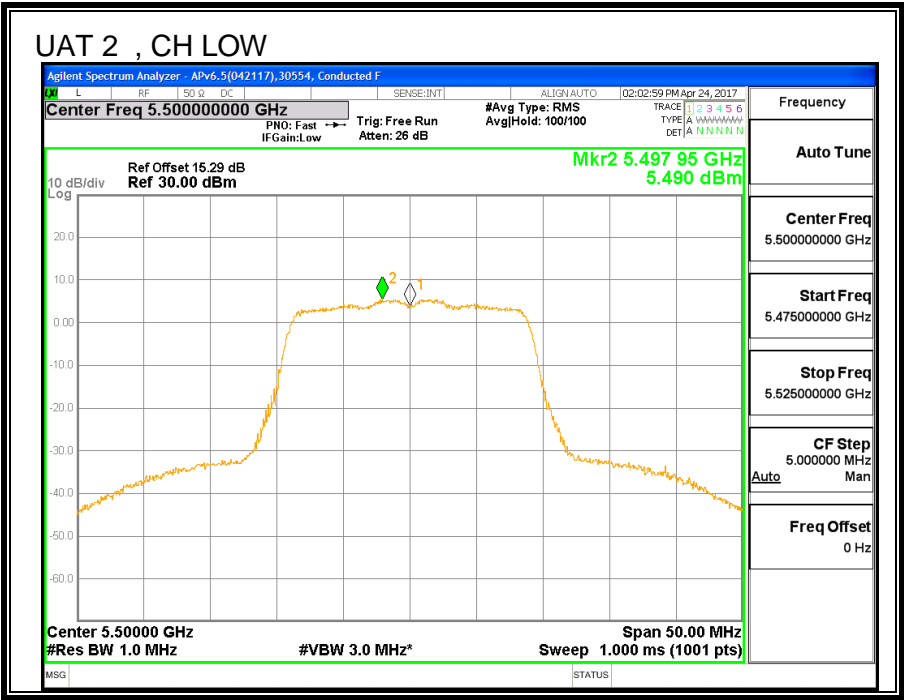
### Output Power Results

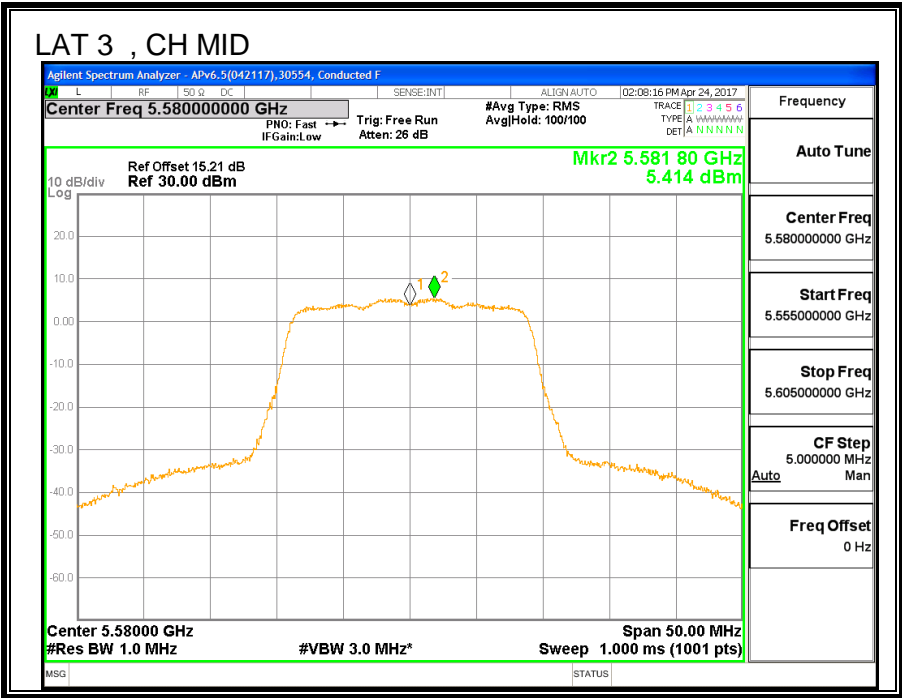
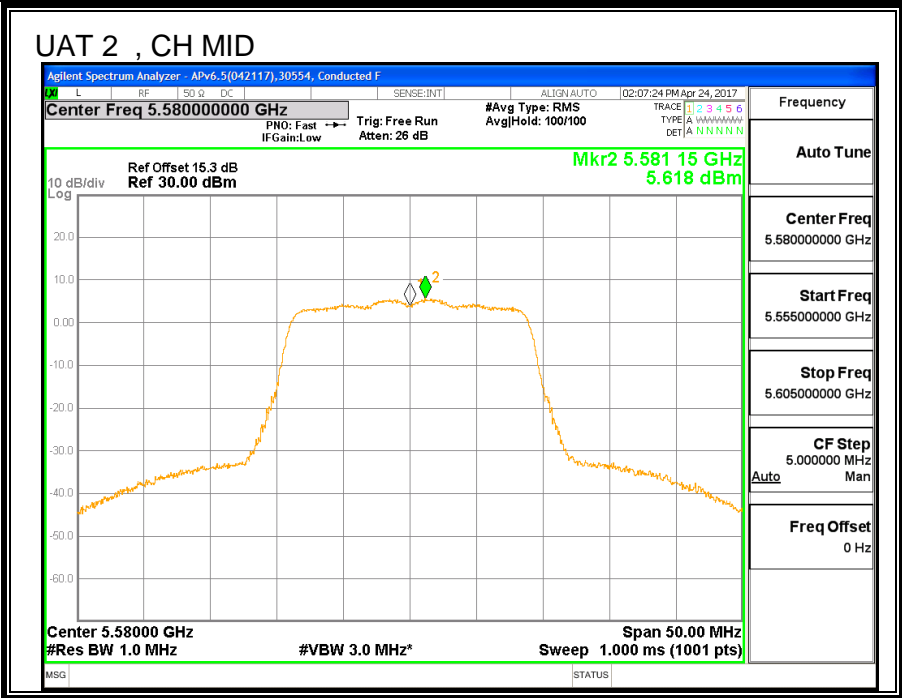
Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	15.88	15.82	18.86	23.43	-4.57
Mid	5580	17.89	17.86	20.89	23.49	-2.60
High	5700	16.27	16.24	19.27	23.47	-4.20

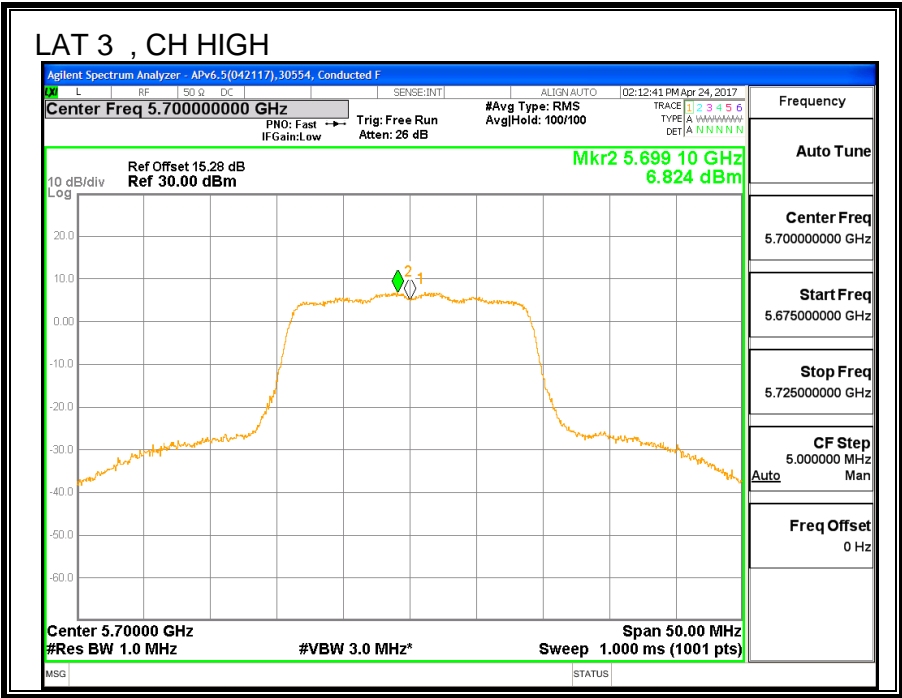
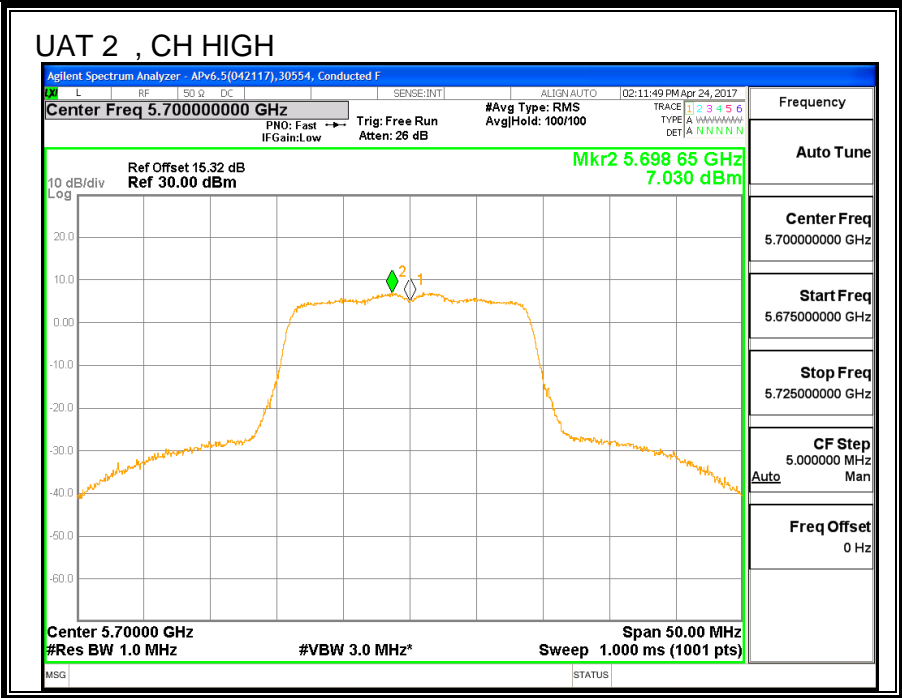
### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	5.49	5.83	8.68	11.00	-2.32
Mid	5580	5.62	5.41	8.53	11.00	-2.47
High	5700	7.03	6.82	9.94	11.00	-1.06









## 8.24. 11ac HT20 2TX CDD MIMO STRADDLE CHANNEL 144

### 8.24.1. OUTPUT POWER AND PSD

#### UNII-2C BAND

##### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	21.55	-1.20	1.72	24.00	11.00

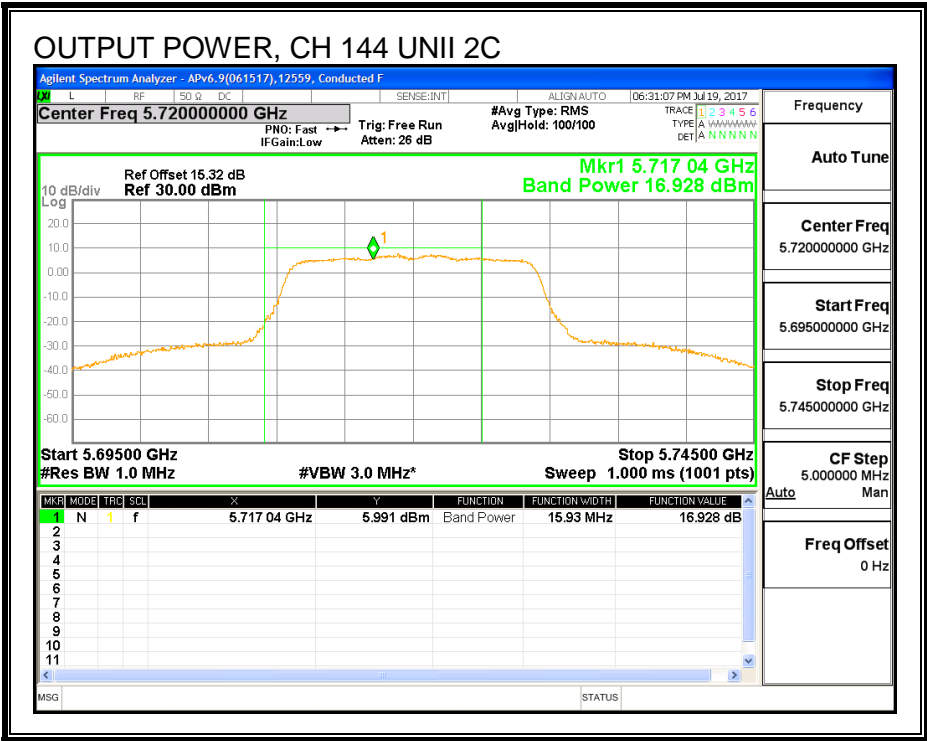
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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##### Output Power Results

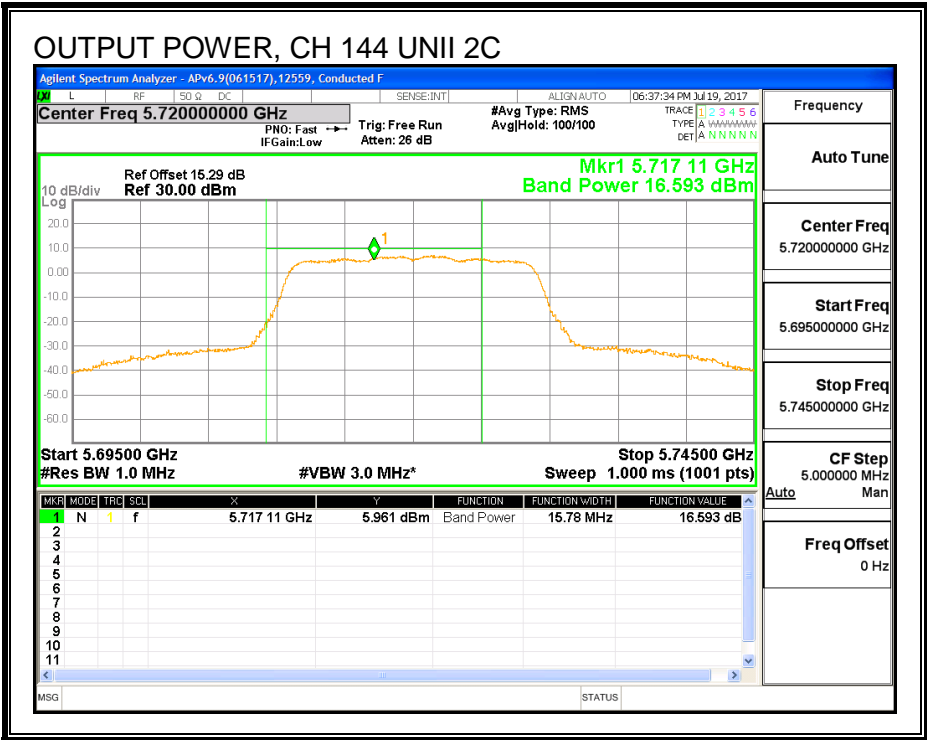
Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	16.93	16.59	19.77	24.00	-4.23

##### PSD Results

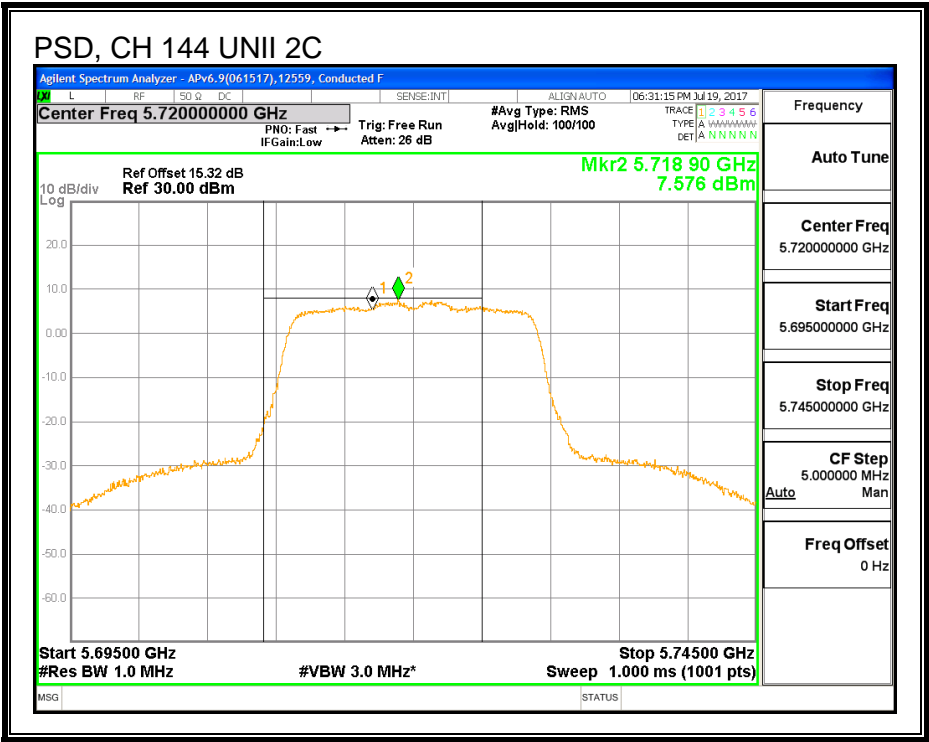
Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	7.58	6.95	10.28	11.00	-0.72



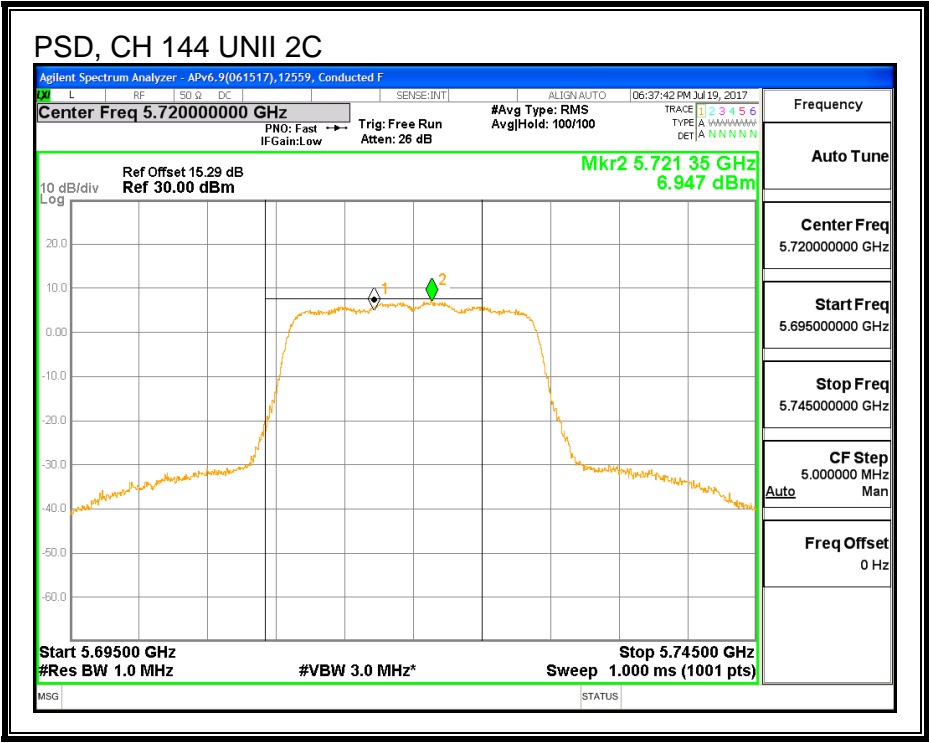
**OUTPUT POWER, LAT 3**



PSD, UAT 2



PSD, LAT 3



# **UNII-3 BAND**

## **Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	21.55	-0.67	2.19	30.00	30.00

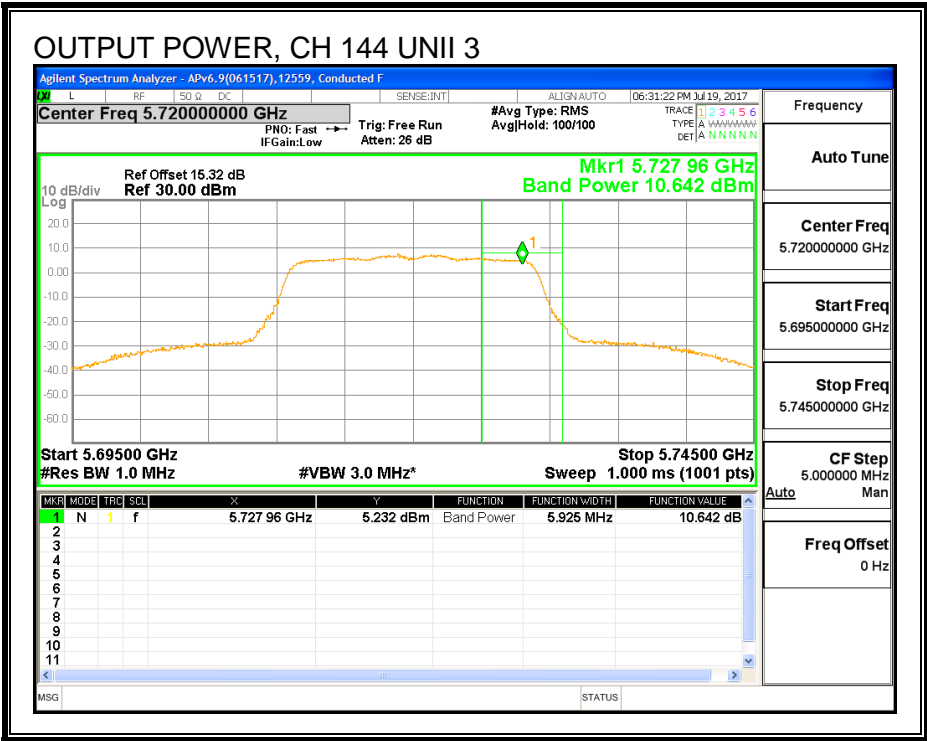
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD
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## **Output Power Results**

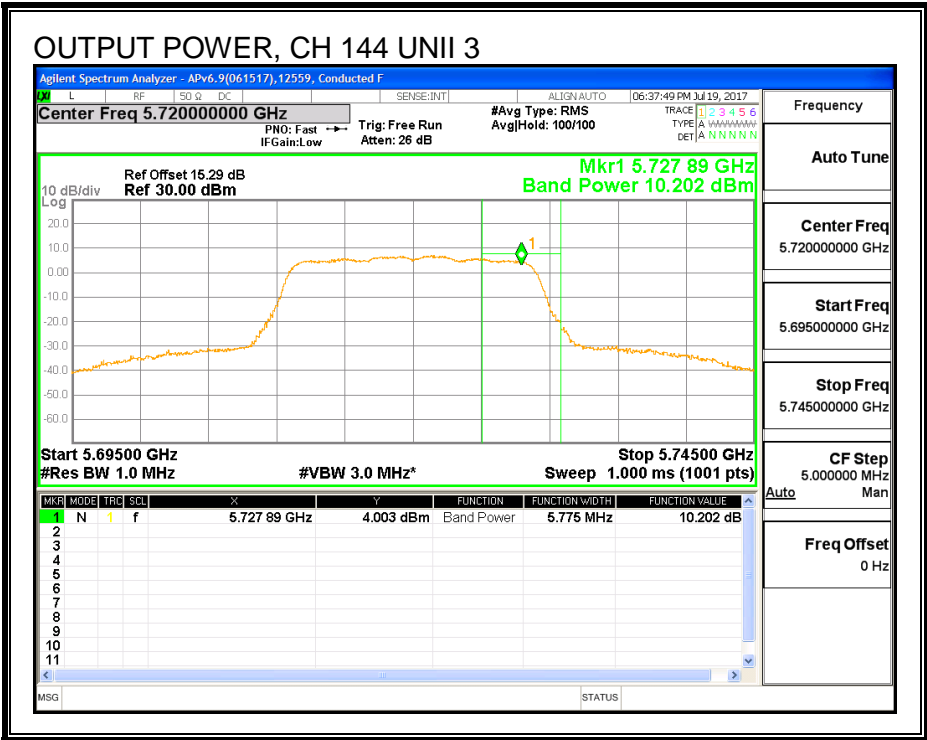
Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
144	5720	10.64	10.20	13.44	30.00	-16.56

## **PSD Results**

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	2.817	2.817	5.83	30.00	-24.17

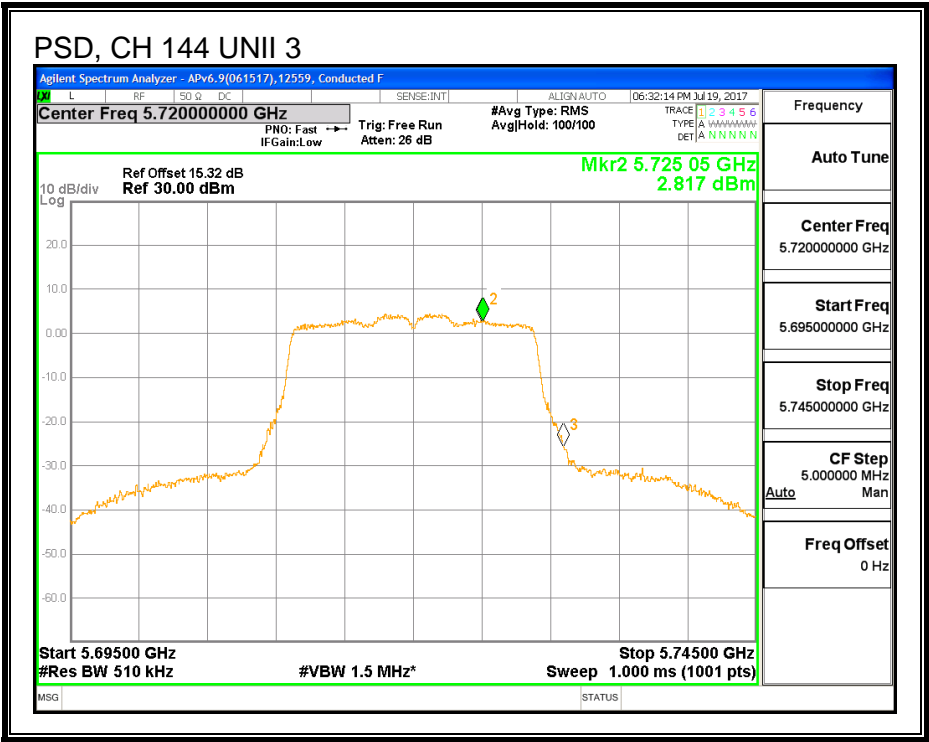


OUTPUT POWER, LAT 3

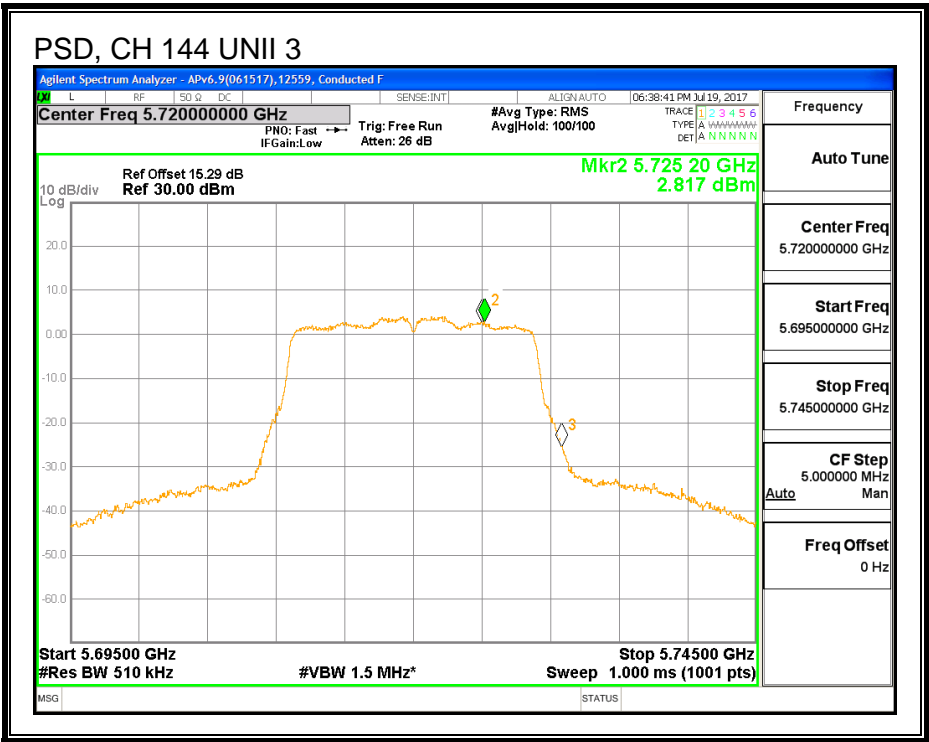




PSD, UAT 2



PSD, LAT 3



## 8.24.2. 6 dB BANDWIDTH

### LIMITS

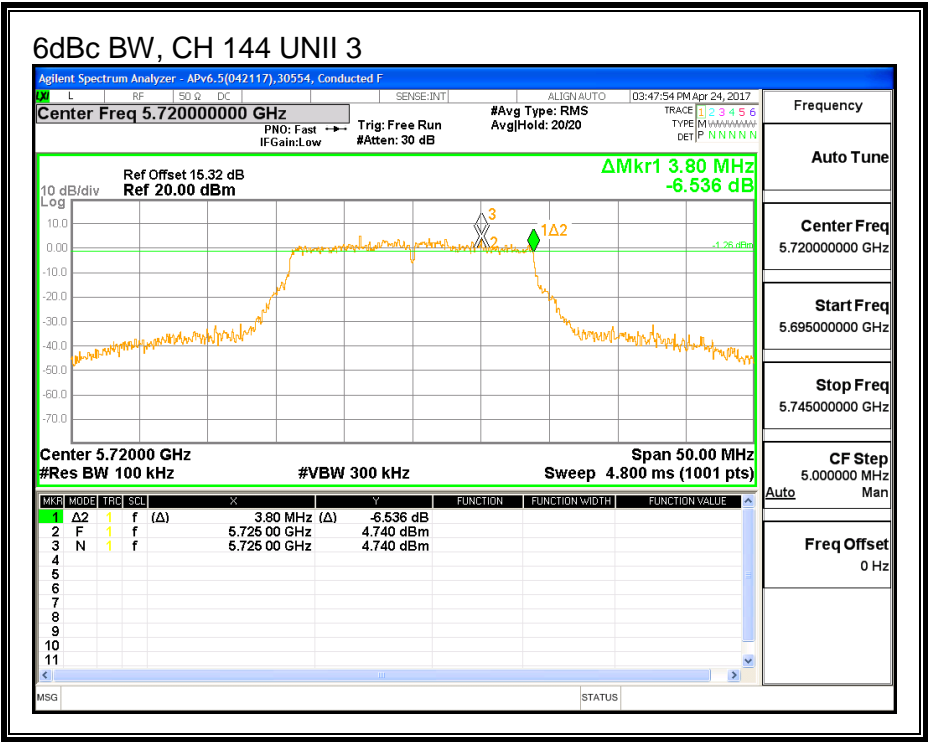
FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

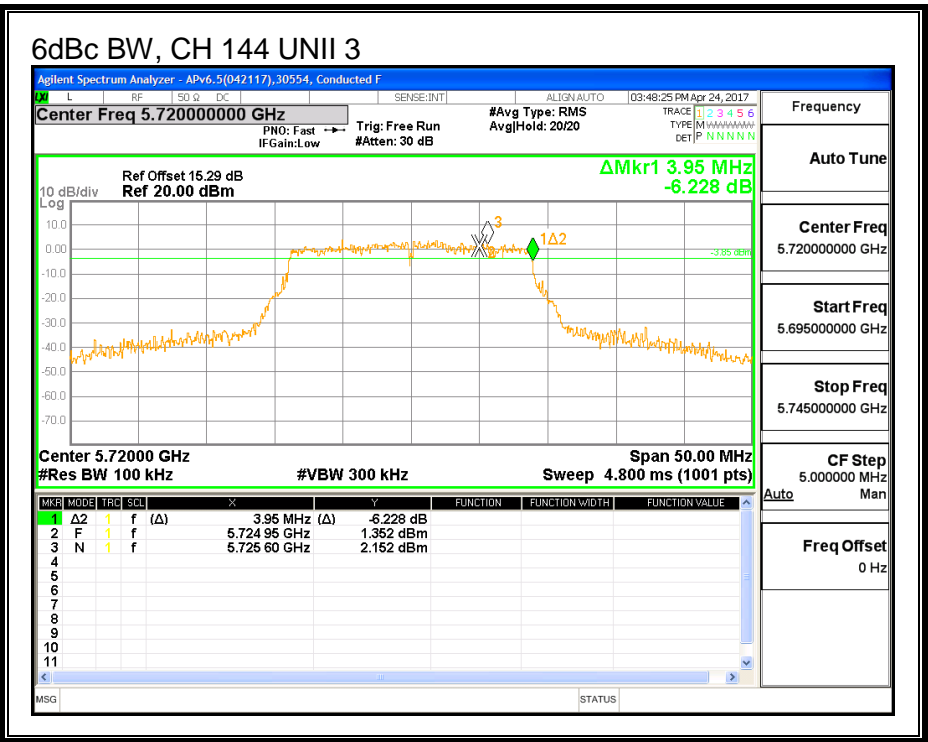
### RESULTS

Channel	Frequency (MHz)	6 dB BW	6 dB BW
		UAT 2 (MHz)	LAT 3 (MHz)
High	5720	3.80	3.95

UAT 2



LAT 3



## 8.25. 11n HT40 UAT 2 SISO MODE IN THE 5.6GHz BAND

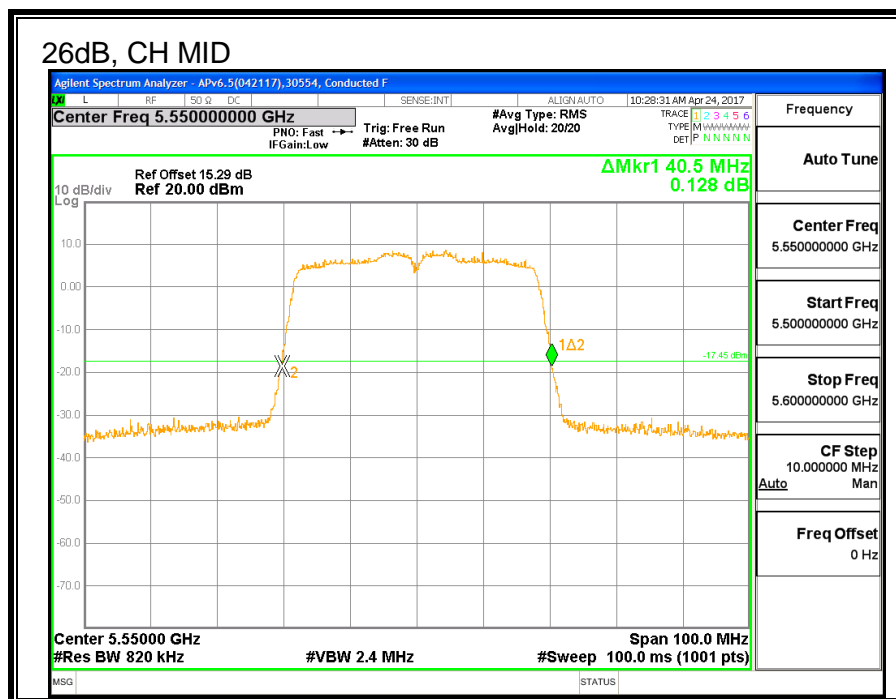
### 8.25.1. 26 dB BANDWIDTH

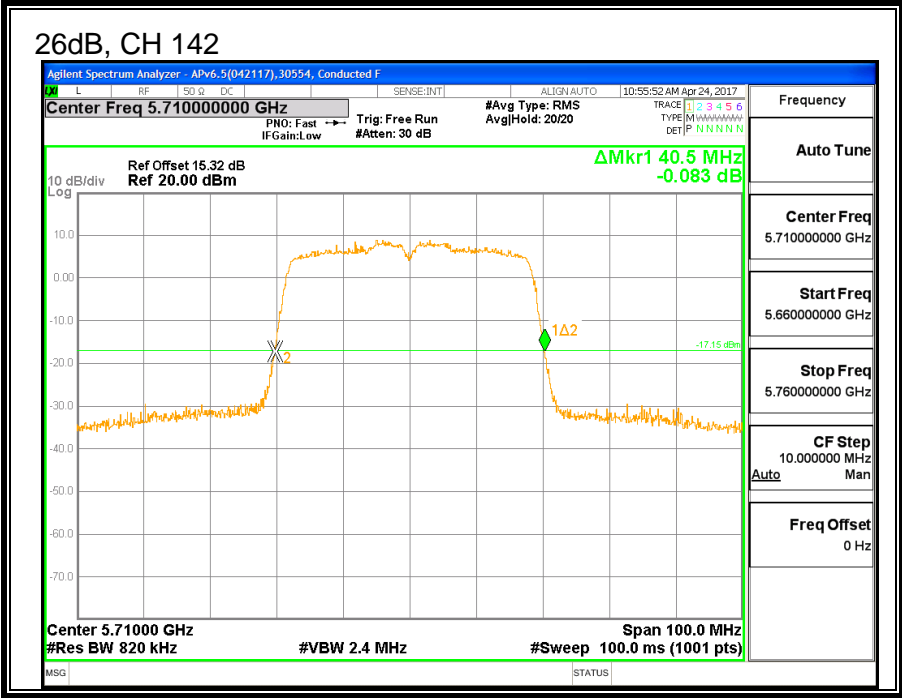
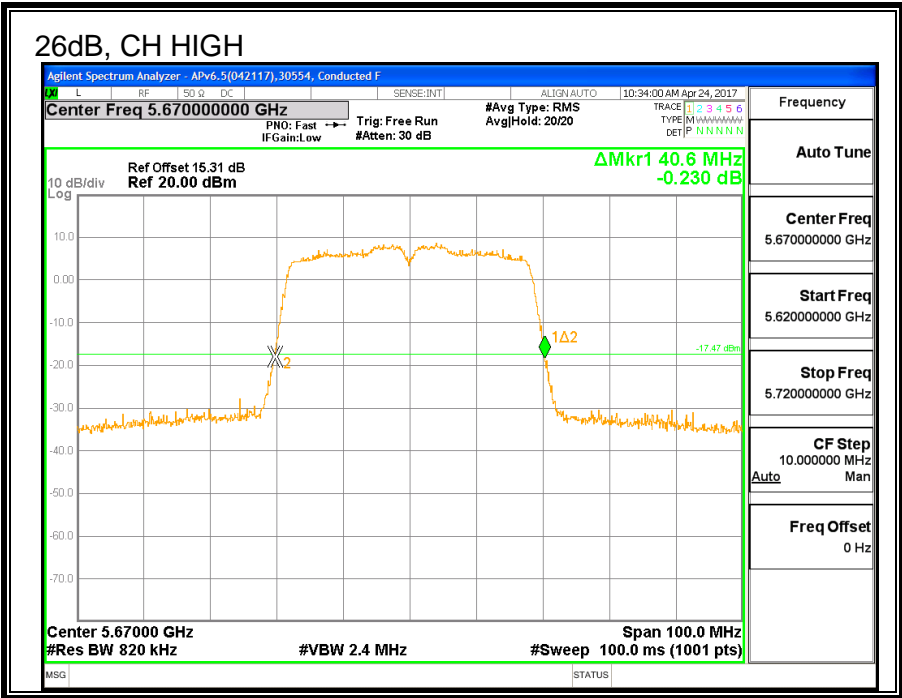
#### LIMITS

None; for reporting purposes only.

#### RESULTS

Channel	Frequency	26 dB BW UAT 2 (MHz)
Low	5510	40.4
Mid	5550	40.5
High	5670	40.6
142	5710	40.5





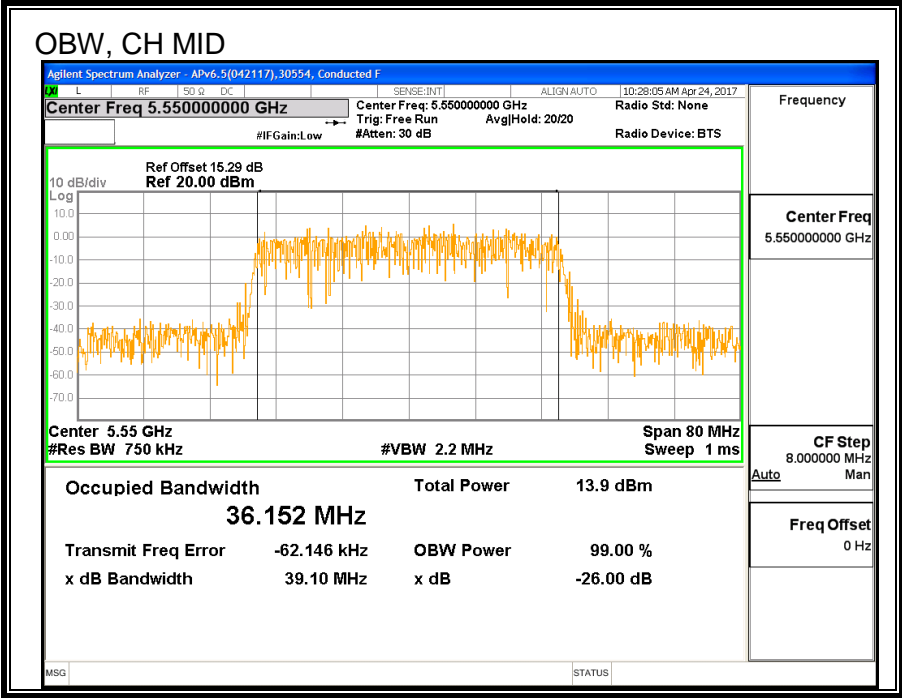
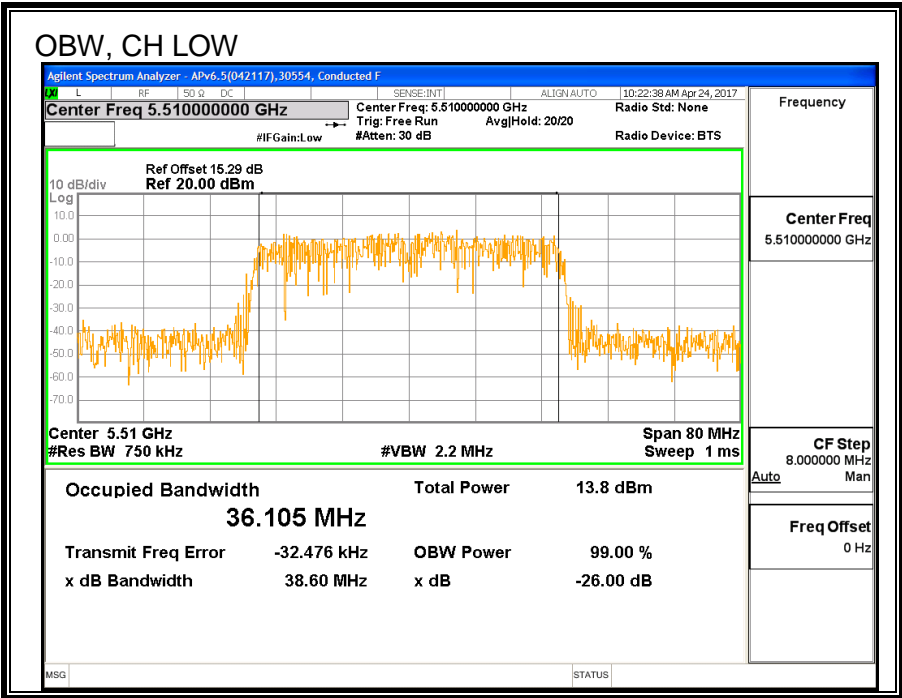
## 8.25.2. 99% BANDWIDTH

### LIMITS

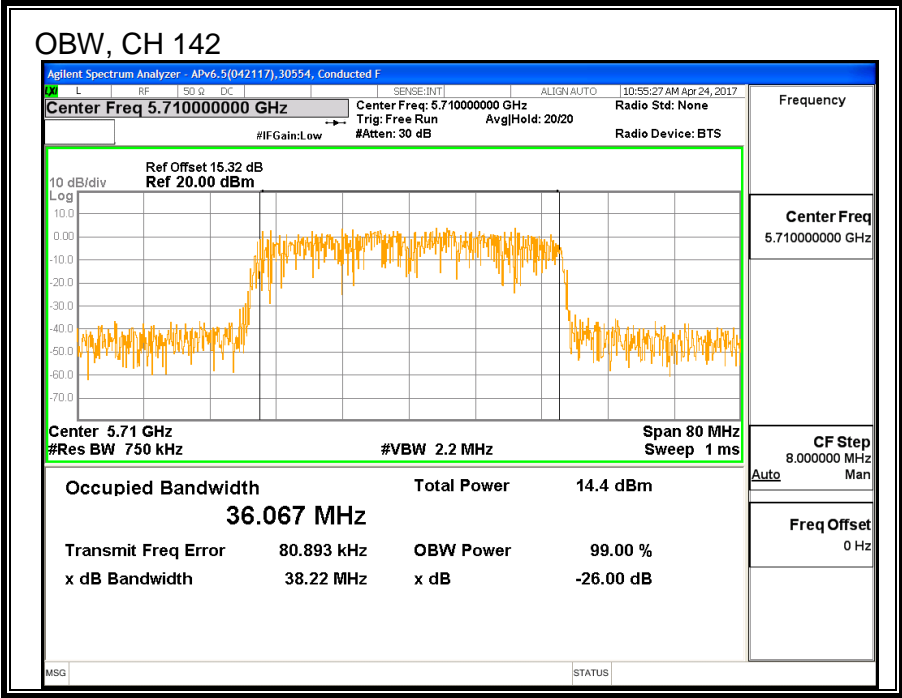
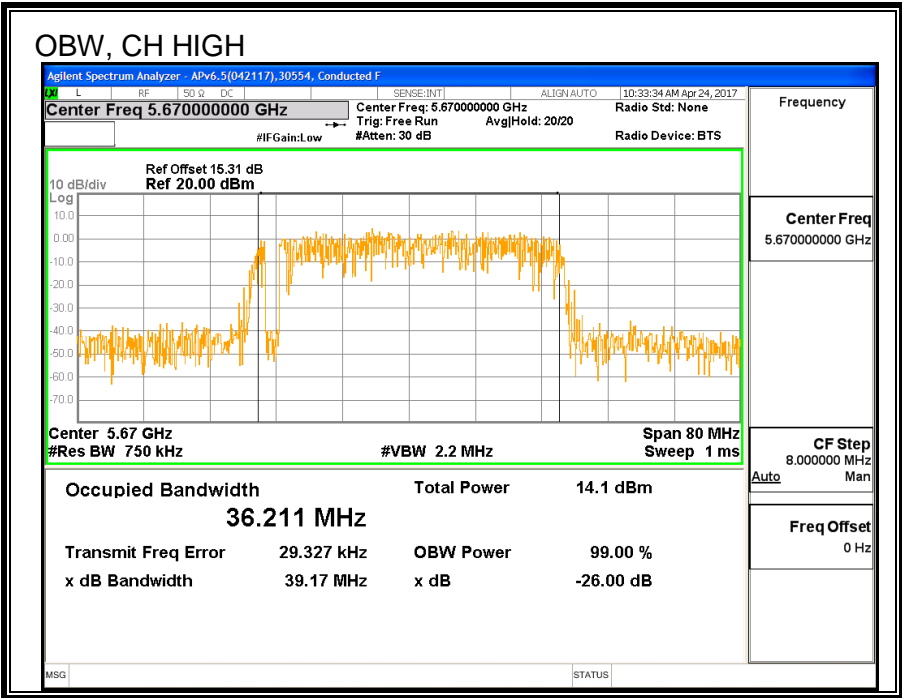
None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW UAT 2 (MHz)
Low	5510	36.105
Mid	5550	36.152
High	5670	36.211
142	5710	36.067







### 8.25.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power UAT 2 (dBm)
Low	5510	15.39
Mid	5550	19.26
High	5670	17.94
142	5710	19.41

## **8.25.4. OUTPUT POWER AND PPSD**

### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	40.40	36.105	-2.62	24.00	11.00
Mid	5550	40.50	36.152	-2.62	24.00	11.00
High	5670	40.60	36.211	-2.62	24.00	11.00

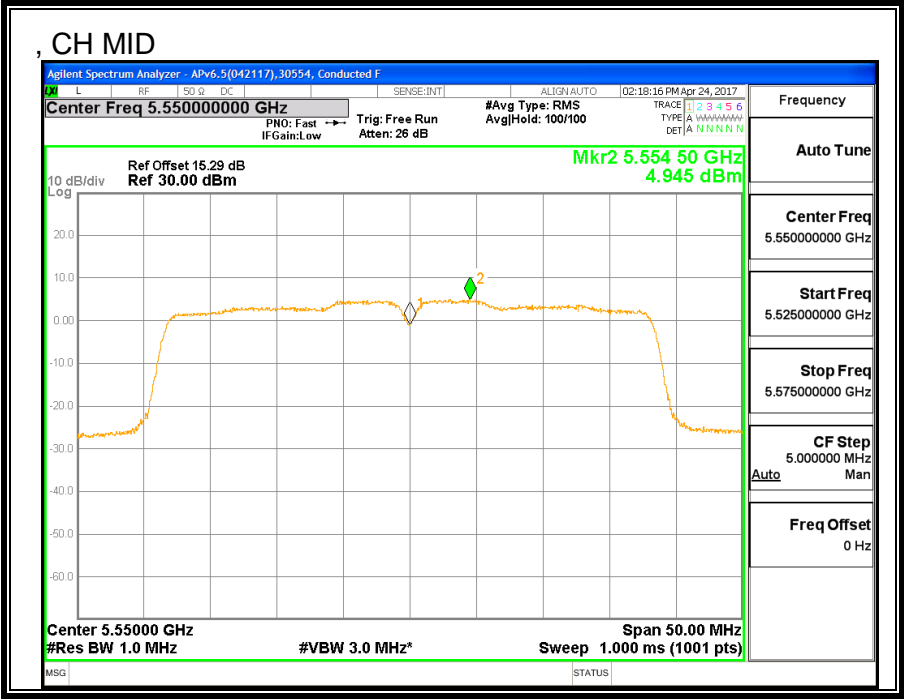
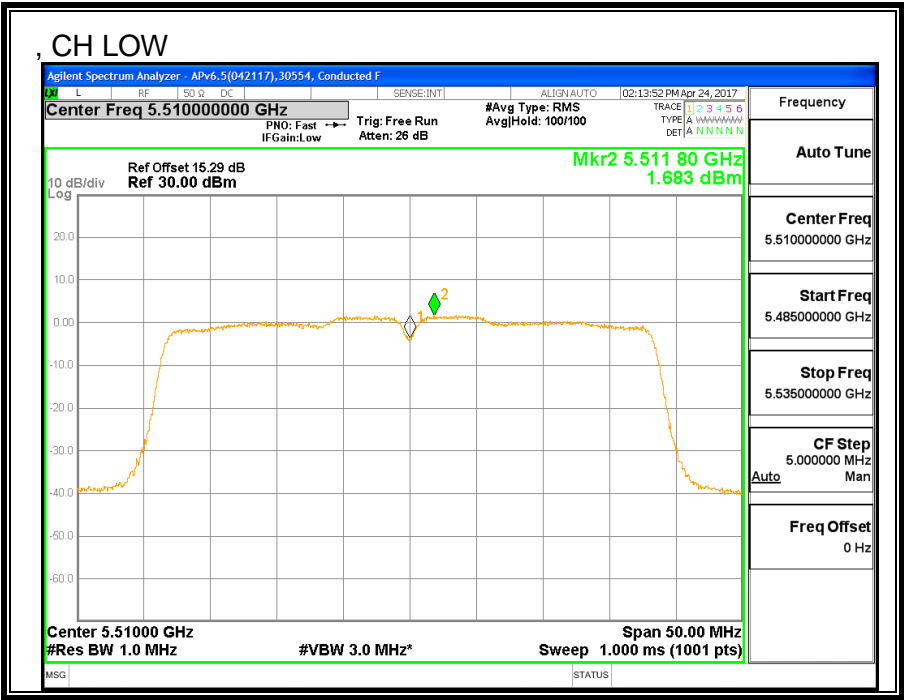
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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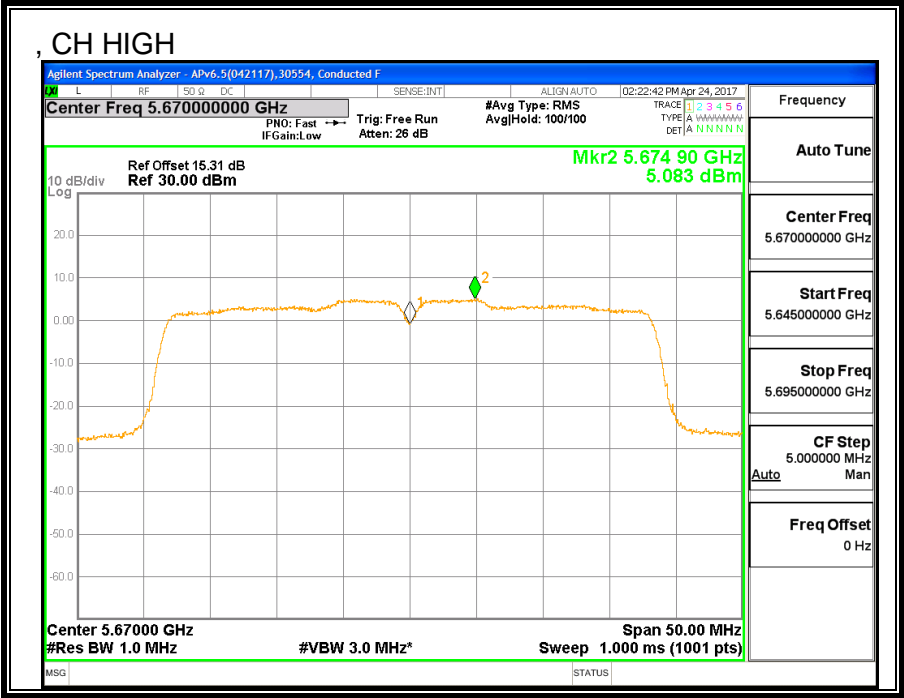
### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.39	15.39	24.00	-8.61
Mid	5550	19.26	19.26	24.00	-4.74
High	5670	17.94	17.94	24.00	-6.06

### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	1.68	1.78	11.00	-9.22
Mid	5550	4.95	5.05	11.00	-5.96
High	5670	5.08	5.18	11.00	-5.82





## 8.26. 11ac HT40 UAT 2 SISO STRADDLE CHANNEL 142

### 8.26.1. OUTPUT POWER AND PSD

#### UNII-2C BAND

##### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	40.50	-2.62	-2.62	24.00	11.00

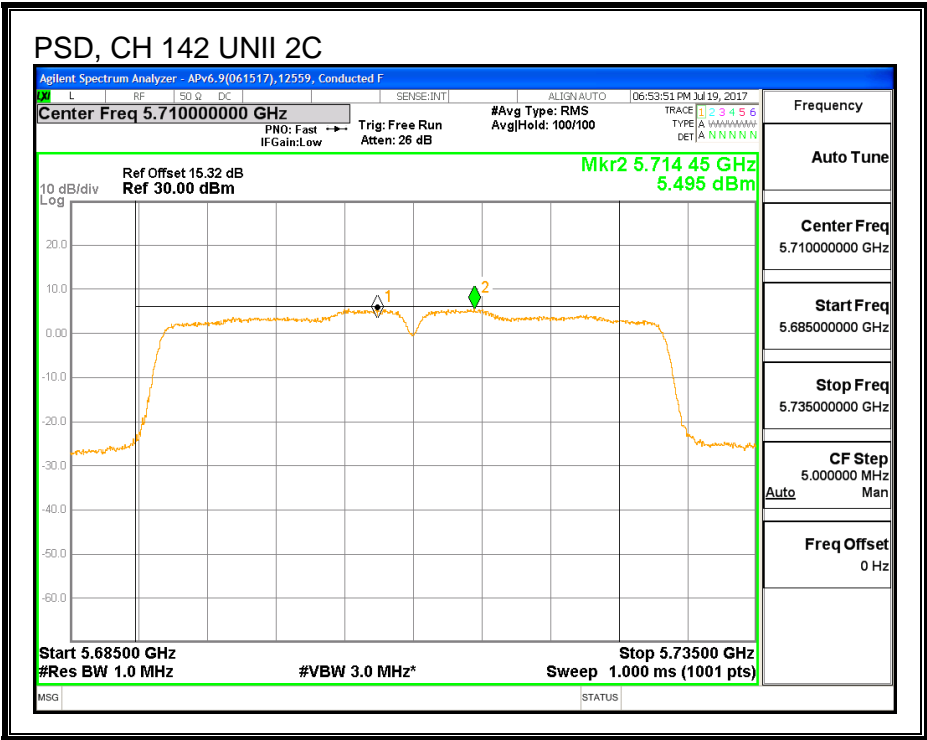
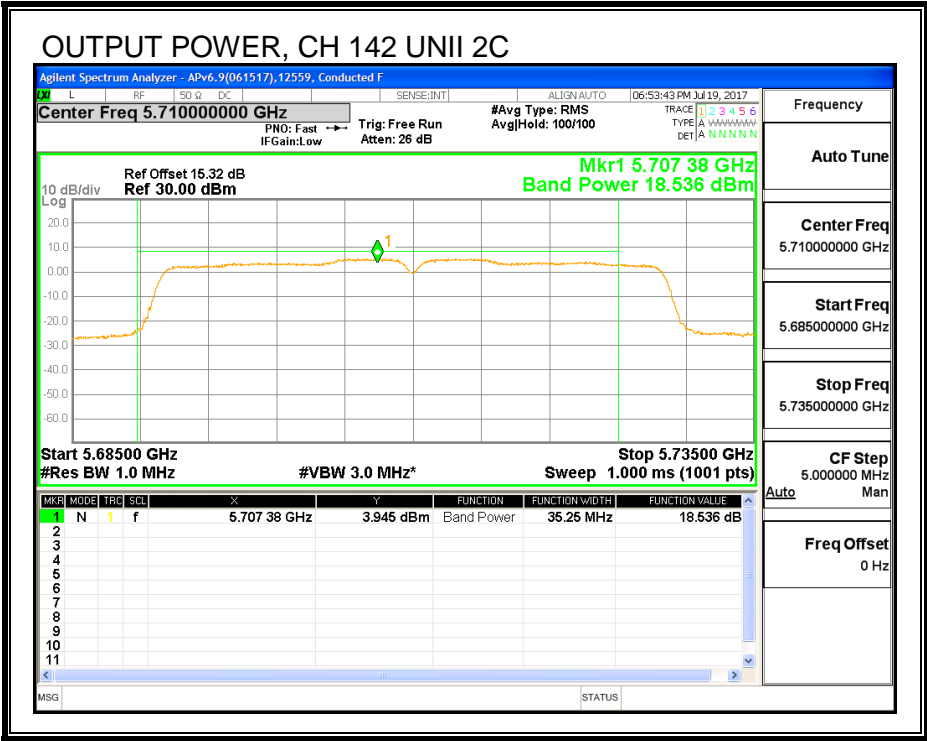
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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##### Output Power Results

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	18.54	18.64	24.00	-5.36

##### PSD Results

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	5.50	5.60	11.00	-5.41





# **UNII-3 BAND**

## **Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	40.50	-2.61	30.00	30.00

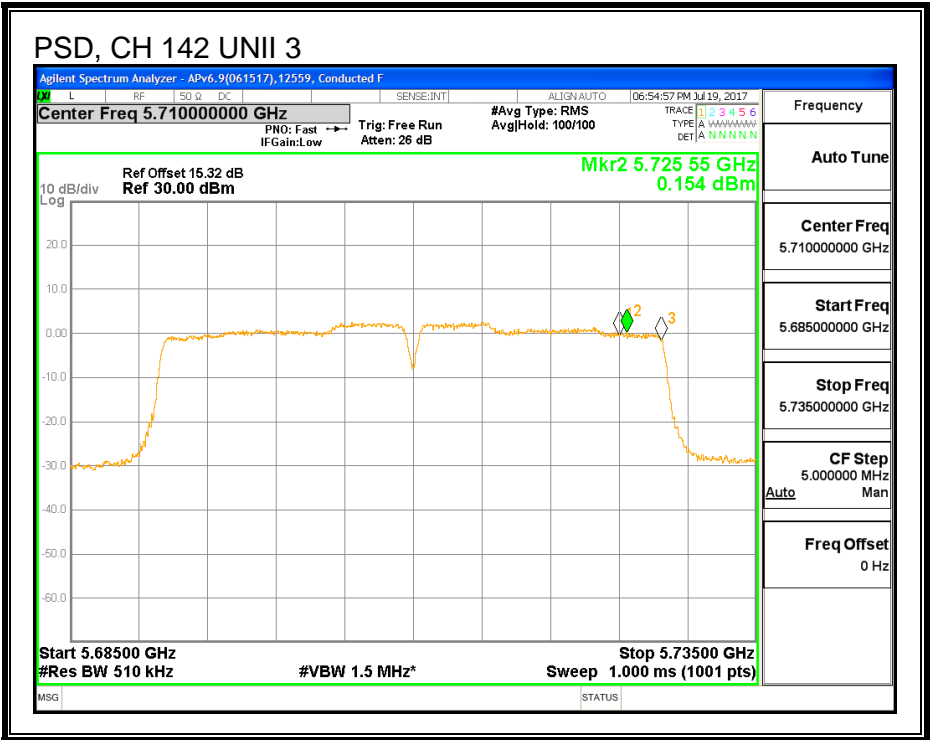
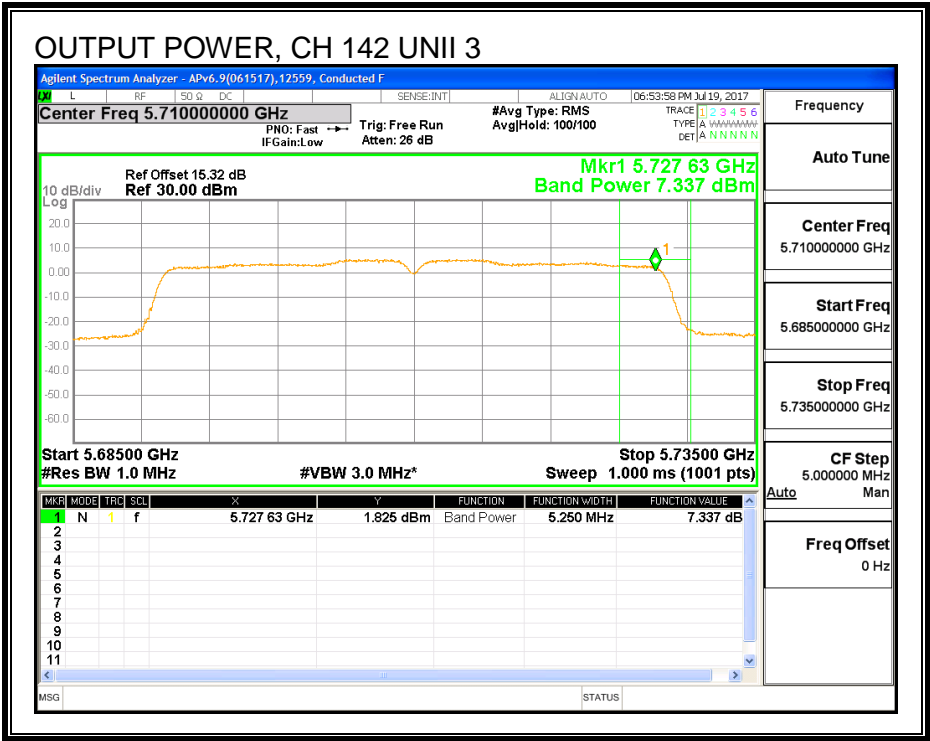
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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## **Output Power Results**

Channel	Frequency (MHz)	UAT 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	7.34	7.44	30.00	-22.56

## **PSD Results**

Channel	Frequency (MHz)	UAT 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	0.154	0.25	30.00	-29.75



8.26.2. 6 dB BANDWIDTH

LIMITS

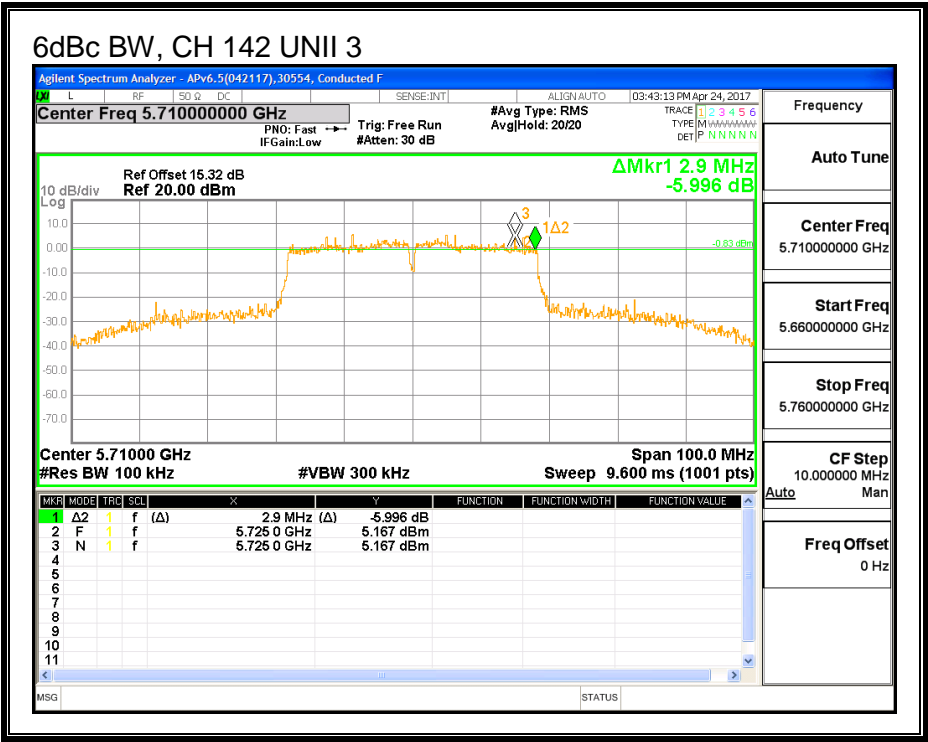
FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
High	5710	2.90

6 dB BANDWIDTH



## 8.27. 11n HT40 LAT 3 SISO MODE IN THE 5.6GHz BAND

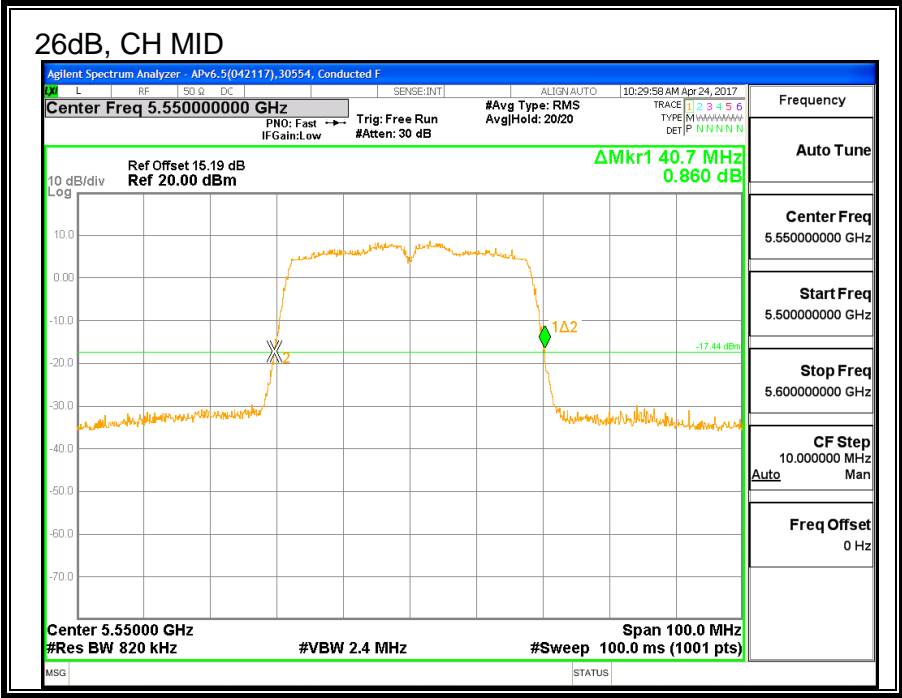
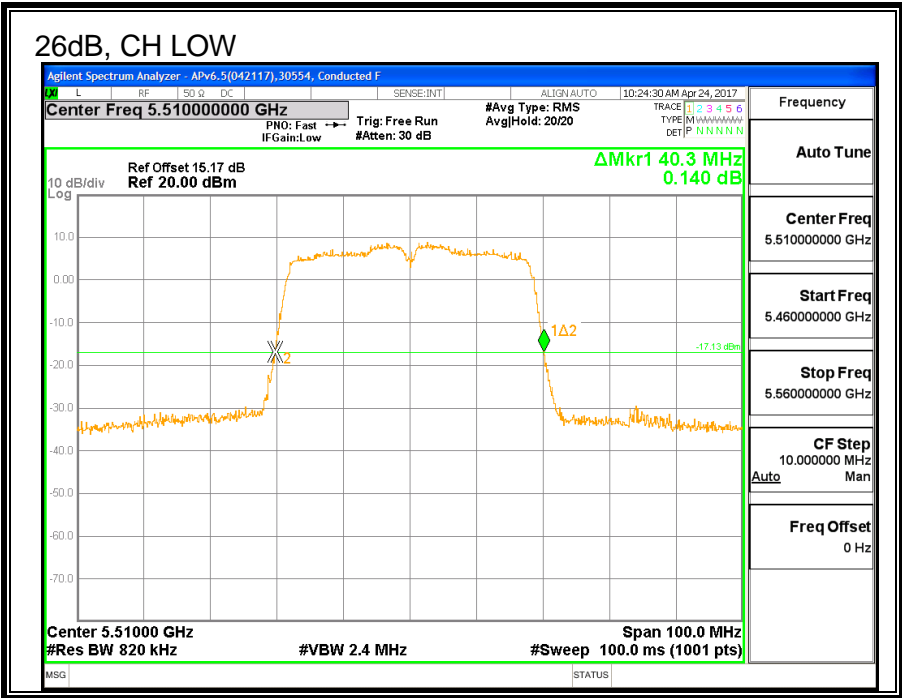
### 8.27.1. 26 dB BANDWIDTH

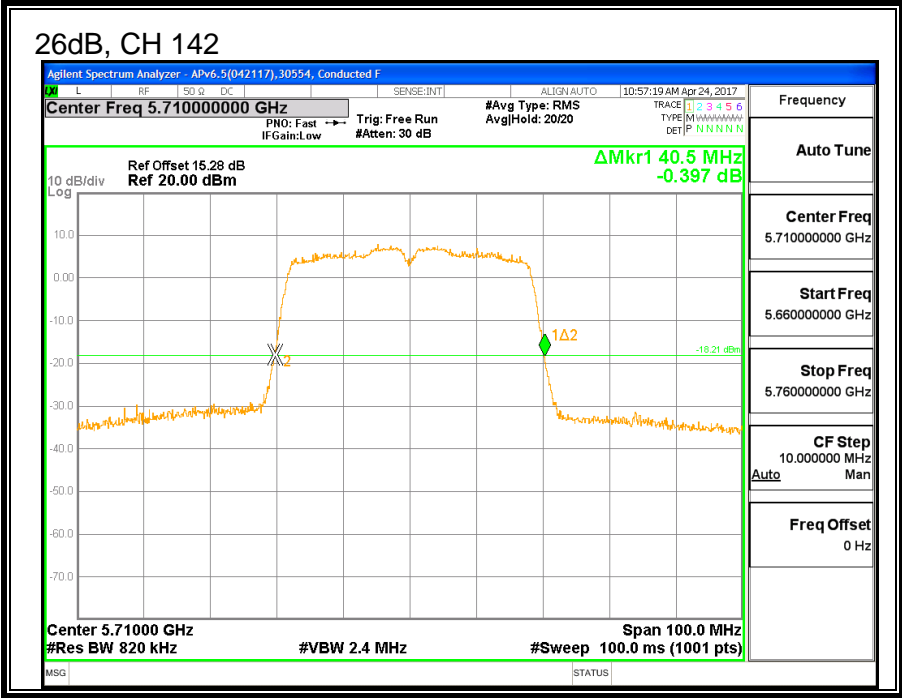
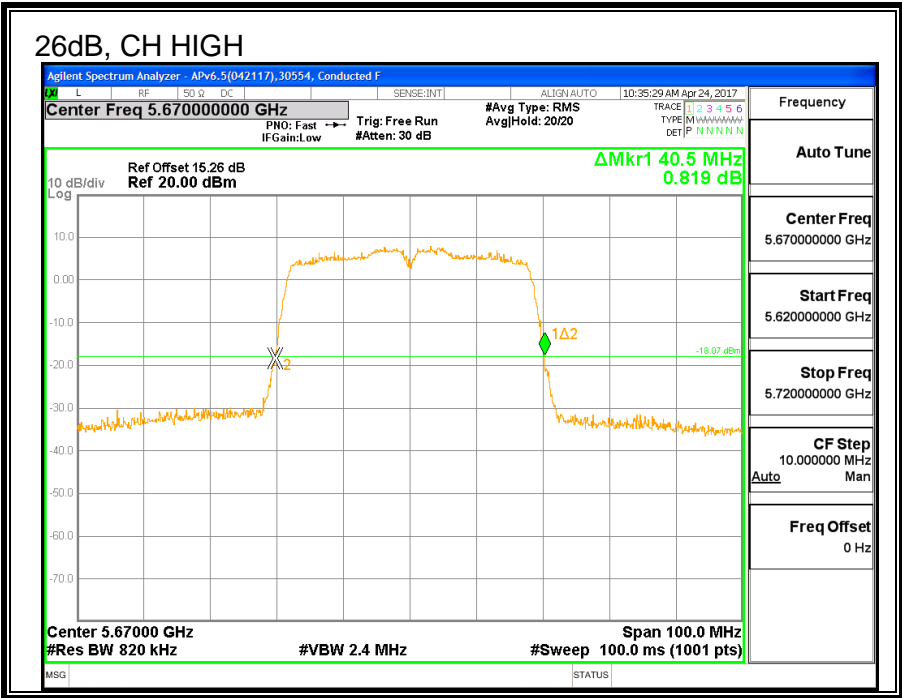
#### LIMITS

None; for reporting purposes only.

#### RESULTS

Channel	Frequency	26 dB BW LAT 3 (MHz)
Low	5510	40.3
Mid	5550	40.7
High	5670	40.5
142	5710	40.5





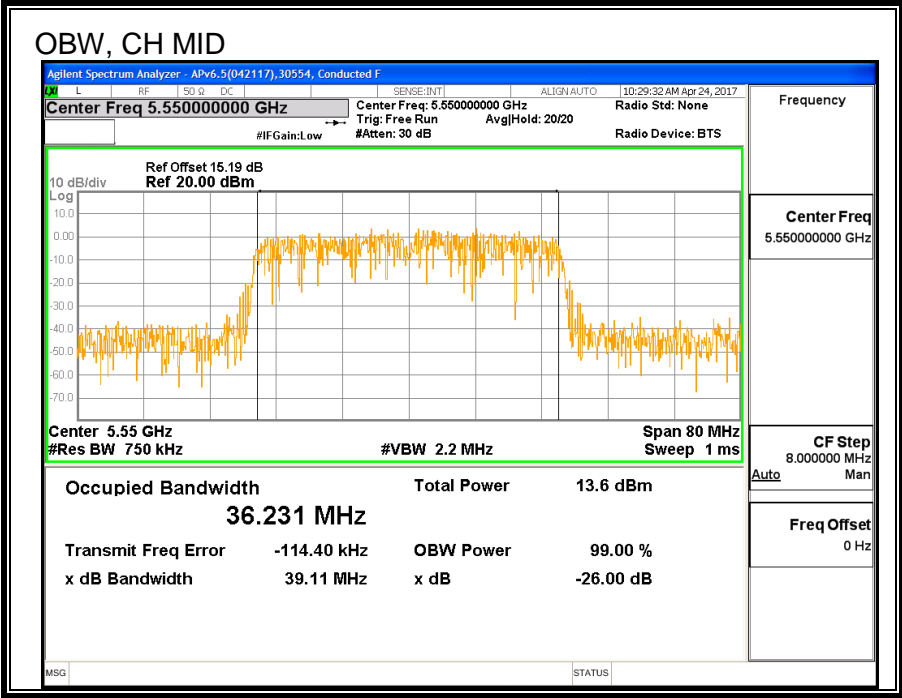
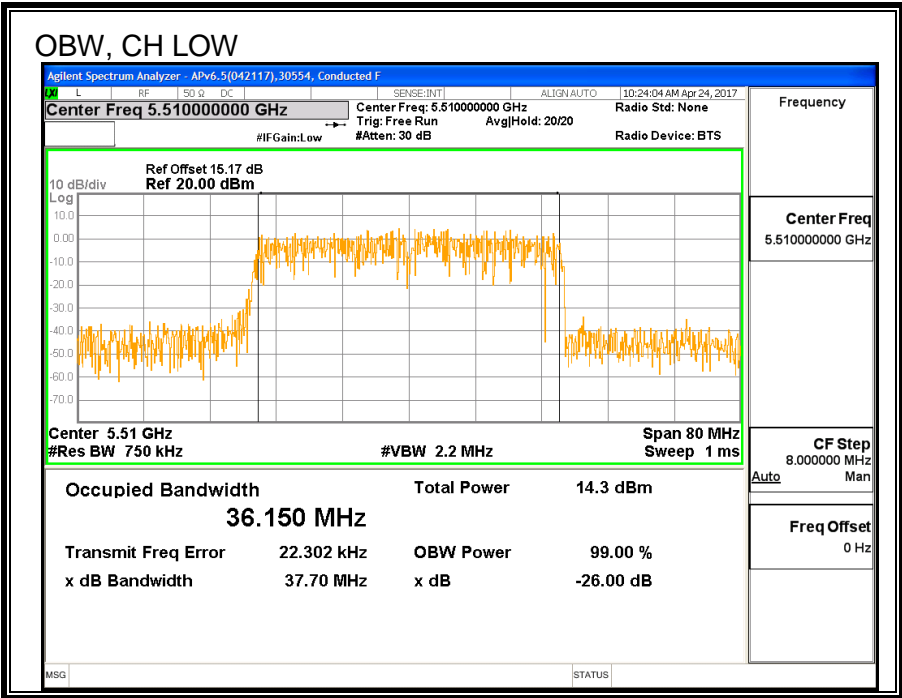
## 8.27.2. 99% BANDWIDTH

### LIMITS

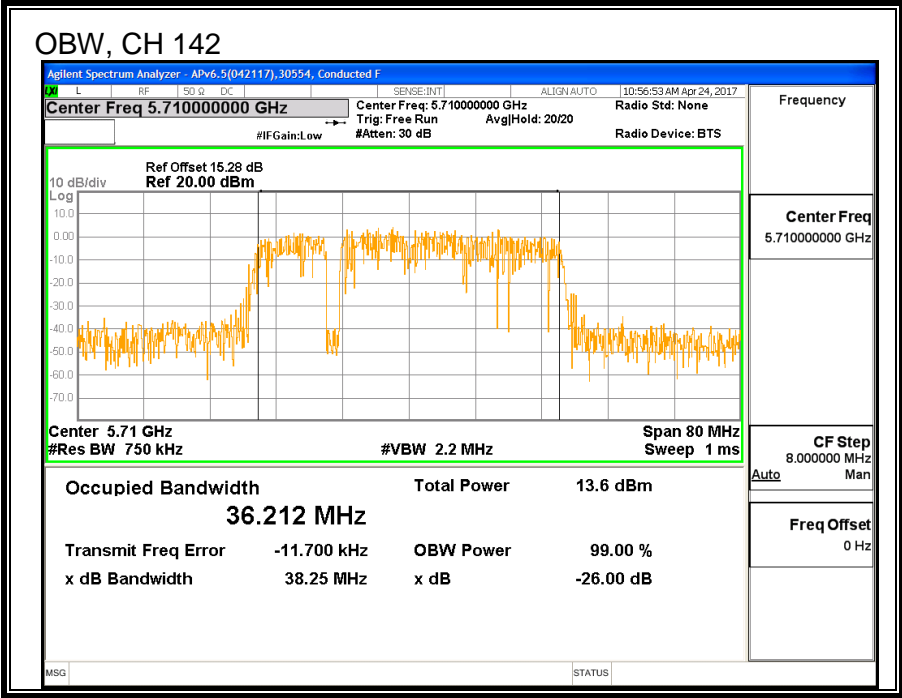
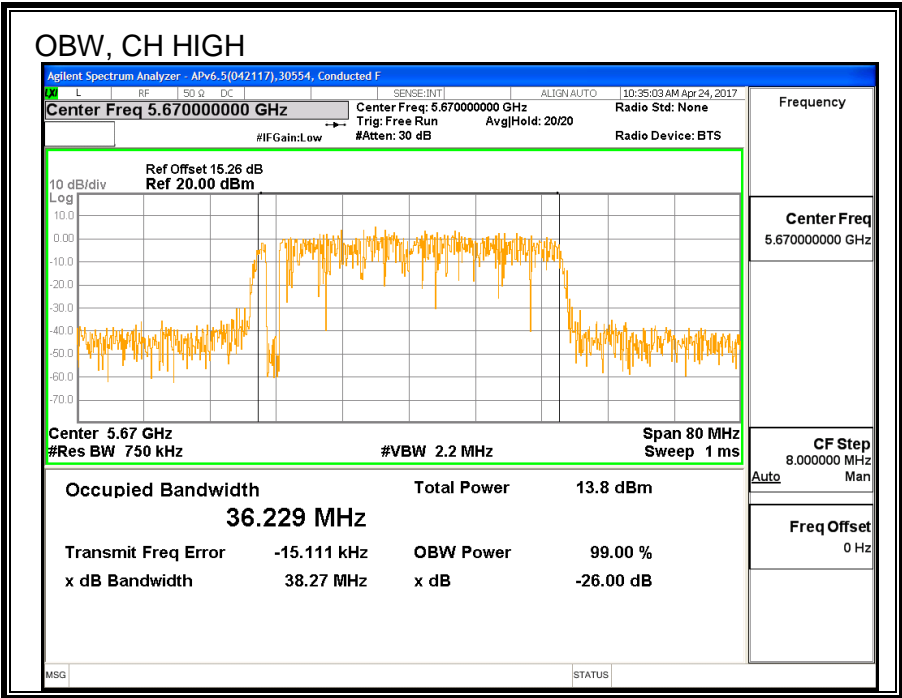
None; for reporting purposes only.

### RESULTS

Channel	Frequency	99% BW LAT 3 (MHz)
Low	5510	36.150
Mid	5550	36.231
High	5670	36.229
142	5710	36.212







### 8.27.3. AVERAGE POWER

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#### LIMITS

None; for reporting purposes only.

#### TEST PROCEDURE

Measurements perform using a wideband gated RF power meter.

#### RESULTS

Channel	Frequency	Power LAT 3 (dBm)
Low	5510	15.33
Mid	5550	19.46
High	5670	17.79
142	5710	19.36

## **8.27.4. OUTPUT POWER AND PPSD**

### **LIMITS**

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26-dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **TEST PROCEDURE**

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

PSD test procedure: KDB 789033 D02 v01r04 Section F (SA-2 method)

Straddle channel power is measured using PXA spectrum analyzer, duty cycle correction factor is required.

### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

## RESULTS

### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	40.30	36.15	-0.13	24.00	11.00
Mid	5550	40.70	36.23	-0.13	24.00	11.00
High	5670	40.50	36.23	-0.13	24.00	11.00

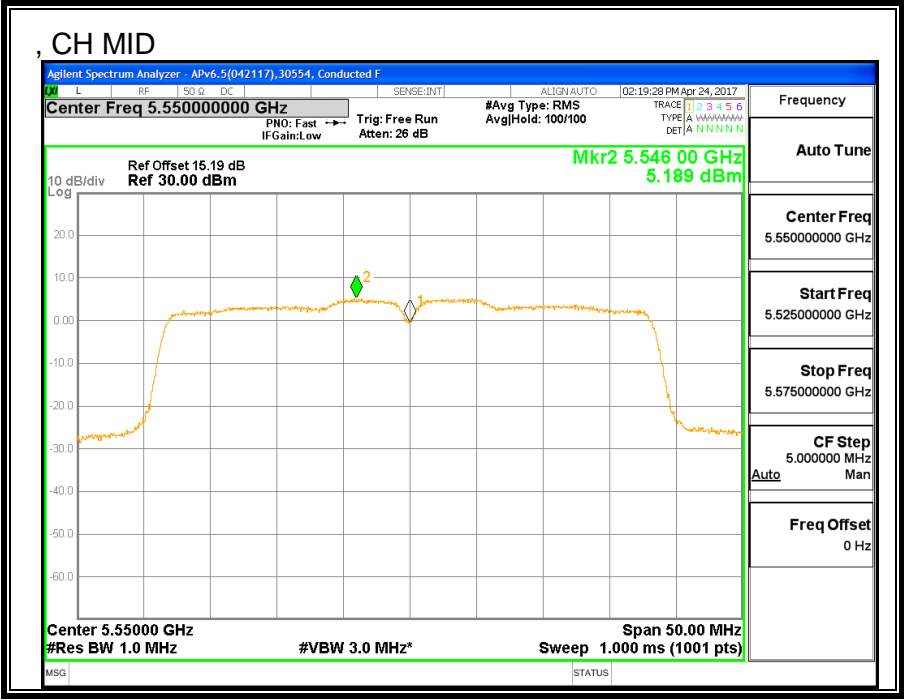
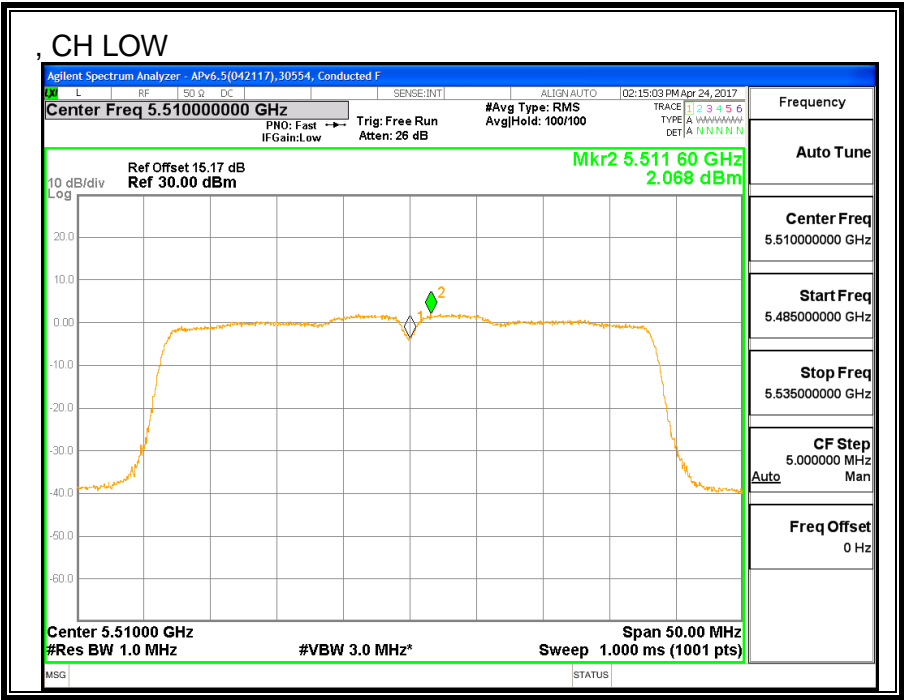
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd PSD
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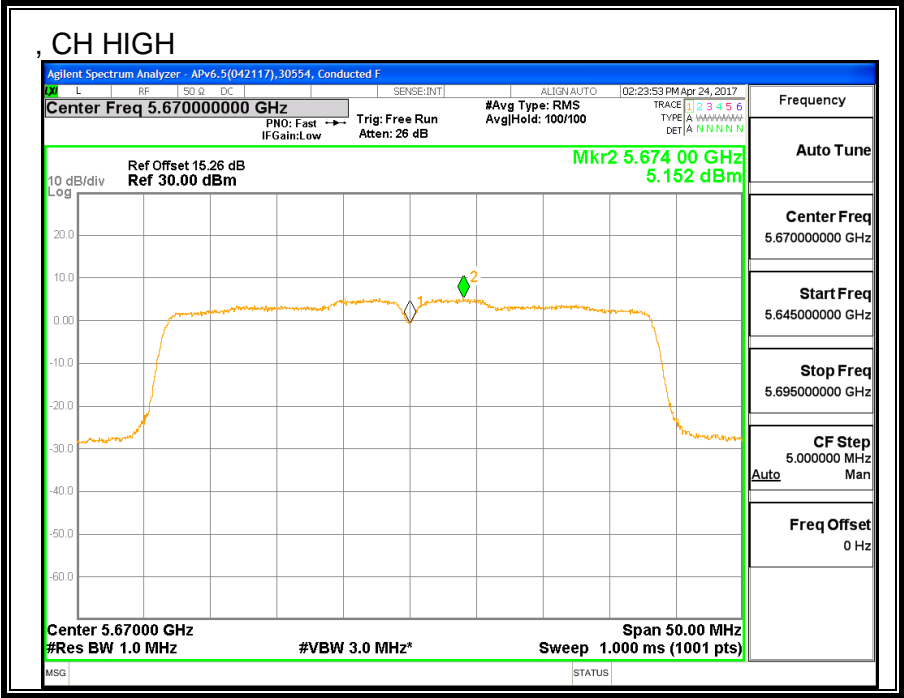
### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.33	15.33	24.00	-8.67
Mid	5550	19.46	19.46	24.00	-4.54
High	5670	17.79	17.79	24.00	-6.21

### PSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	2.07	2.17	11.00	-8.83
Mid	5550	5.19	5.29	11.00	-5.71
High	5670	5.15	5.25	11.00	-5.75





## 8.28. 11ac HT40 LAT 3 SISO STRADDLE CHANNEL 142

### 8.28.1. OUTPUT POWER AND PSD

#### UNII-2C BAND

##### Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	40.50	-0.13	-0.13	24.00	11.00

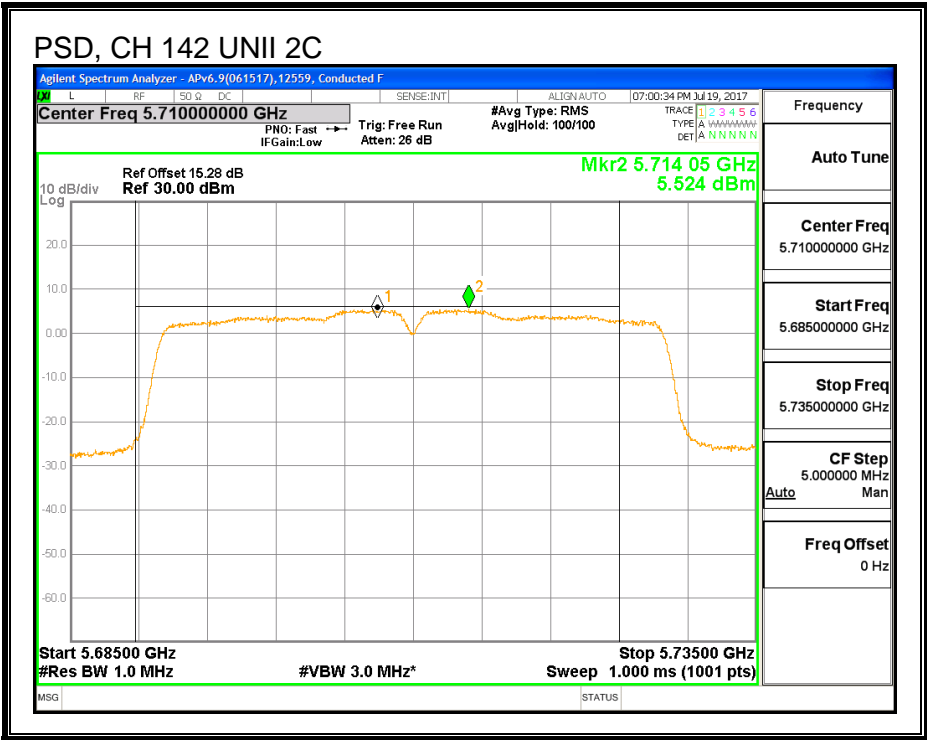
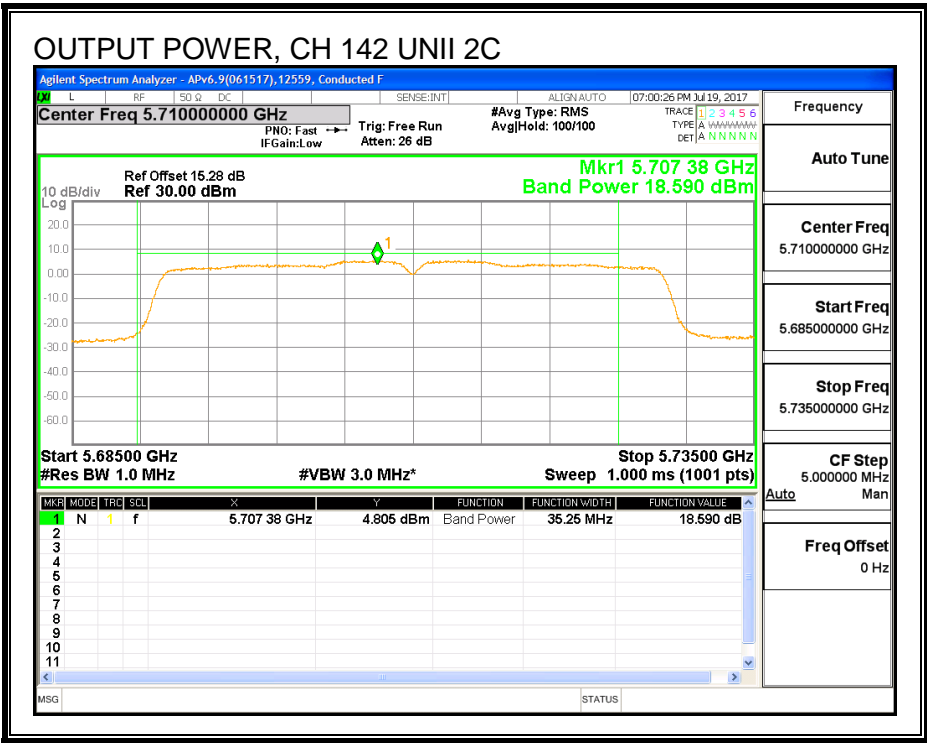
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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##### Output Power Results

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	18.59	18.69	24.00	-5.31

##### PSD Results

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	5.52	5.62	11.00	-5.38





**UNII-3 BAND**

**Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	40.50	0.67	30.00	30.00

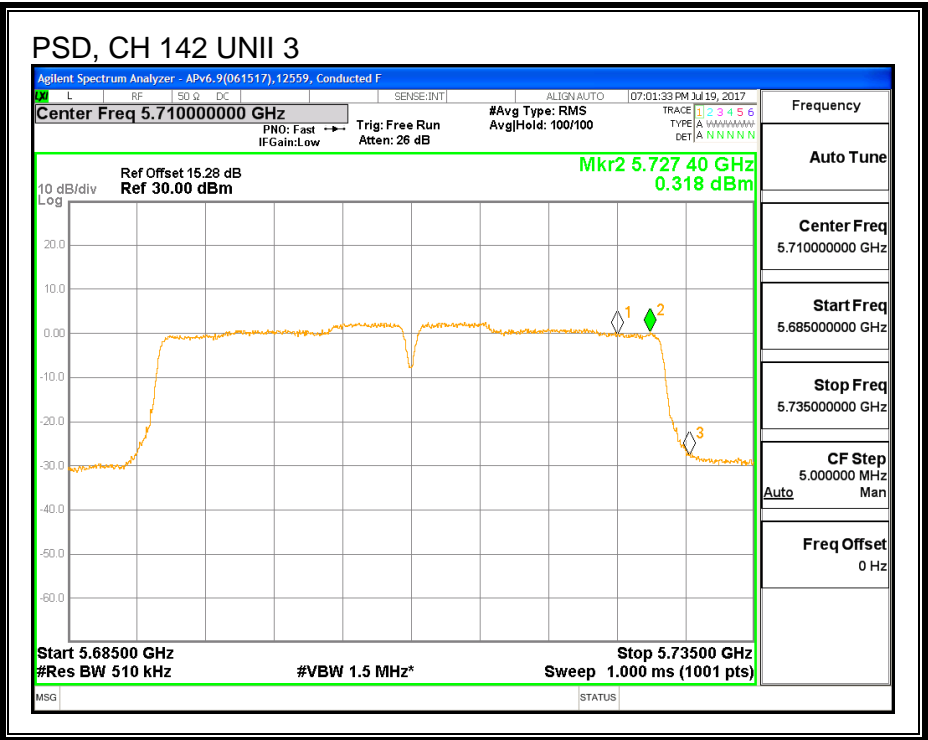
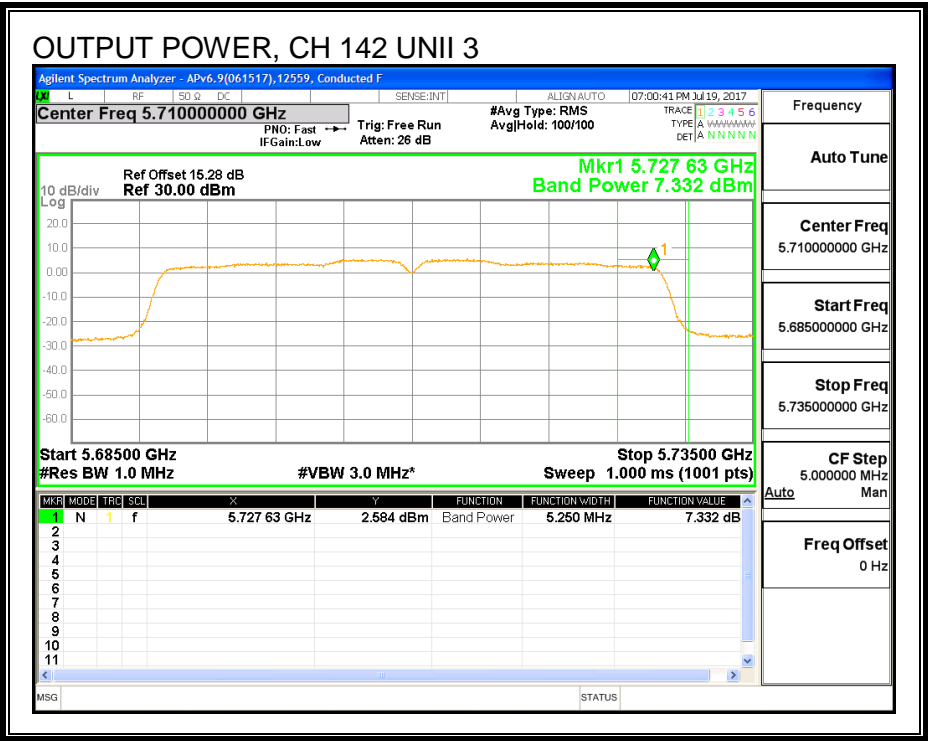
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power & PSD
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**Output Power Results**

Channel	Frequency (MHz)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
142	5710	7.33	7.43	30.00	-22.57

**PSD Results**

Channel	Frequency (MHz)	LAT 3 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	0.318	0.42	30.00	-29.58



8.28.2. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)
High	5710	3.30

6 dB BANDWIDTH

