

26dB bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.5±1.0 kpa	Humidity: 53.1±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 22.6±0.6 °C

Test Mode	Frequency (MHz)	-26 bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5180	18.20	18.25	N/A
	5200	18.19	18.17	N/A
	5240	18.06	18.31	N/A
11n HT20	5180	18.83	18.83	N/A
	5200	18.82	18.87	N/A
	5240	18.84	18.85	N/A
11n HT40	5190	38.07	38.16	N/A
	5230	38.00	38.09	N/A
11ac VHT20	5180	18.83	18.80	N/A
	5200	18.83	18.86	N/A
	5240	18.81	18.85	N/A
11ac VHT40	5190	38.03	37.92	N/A
	5230	38.33	38.09	N/A
11ac VHT80	5210	78.76	78.67	N/A
Conclusion: PASS				

**5260-5320MHz Band:
6dB bandwidth**

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.3±1.0 kpa	Humidity: 51.6±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 22.5±0.6 °C

Test Mode	Frequency (MHz)	6dB bandwidth (MHz)		Limit (KHz)
		ANT0	ANT1	
11a	5260	15.34	15.11	≧ 500
	5300	15.34	15.29	≧ 500
	5320	15.33	15.11	≧ 500
11n HT20	5260	15.02	15.15	≧ 500
	5300	15.16	15.17	≧ 500
	5320	15.16	15.14	≧ 500
11n HT40	5270	35.14	33.87	≧ 500
	5310	35.17	35.15	≧ 500
11ac VHT20	5260	15.16	15.17	≧ 500
	5300	15.11	15.16	≧ 500
	5320	15.13	15.17	≧ 500
11ac VHT40	5270	35.13	35.16	≧ 500
	5310	35.15	35.15	≧ 500
11ac VHT80	5290	75.22	75.15	≧ 500
Conclusion: PASS				

99% bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.3±1.0 kpa	Humidity: 51.6±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 22.5±0.6 °C

Test Mode	Frequency (MHz)	99% bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5260	16.237	16.234	N/A
	5300	16.218	16.238	N/A
	5320	16.229	16.232	N/A
11n HT20	5260	17.387	17.397	N/A
	5300	17.367	17.381	N/A
	5320	17.352	17.382	N/A
11n HT40	5270	35.666	35.674	N/A
	5310	35.674	35.659	N/A
11ac VHT20	5260	17.373	17.356	N/A
	5300	17.370	17.368	N/A
	5320	17.376	17.373	N/A
11ac VHT40	5270	35.658	35.661	N/A
	5310	35.668	35.671	N/A
11ac VHT80	5290	75.026	74.987	N/A
Conclusion: PASS				

26dB bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.3±1.0 kpa	Humidity: 51.6±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 22.5±0.6 °C

Test Mode	Frequency (MHz)	-26 bandwidth(MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5260	18.28	18.31	N/A
	5300	18.28	18.10	N/A
	5320	18.07	18.20	N/A
11n HT20	5260	18.82	18.83	N/A
	5300	18.82	18.83	N/A
	5320	18.84	18.81	N/A
11n HT40	5270	38.02	38.11	N/A
	5310	38.12	38.10	N/A
11ac VHT20	5260	18.85	18.86	N/A
	5300	18.83	18.85	N/A
	5320	18.84	18.83	N/A
11ac VHT40	5270	37.84	38.03	N/A
	5310	38.06	38.00	N/A
11ac VHT80	5290	78.53	78.40	N/A
Conclusion: PASS				

5500-5700MHz Band:**6dB bandwidth**

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.8±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.2±0.6 °C

Test Mode	Frequency (MHz)	6dB bandwidth (MHz)		Limit (KHz)
		ANT0	ANT1	
11a	5500	15.33	15.16	≧ 500
	5600	15.12	14.69	≧ 500
	5700	15.15	15.34	≧ 500
11n HT20	5500	15.15	15.16	≧ 500
	5600	15.14	15.40	≧ 500
	5700	15.48	15.14	≧ 500
11n HT40	5510	35.15	35.18	≧ 500
	5590	35.14	35.10	≧ 500
	5670	35.15	35.14	≧ 500
11ac VHT20	5500	15.15	15.16	≧ 500
	5600	15.14	15.14	≧ 500
	5700	15.17	15.16	≧ 500
11ac VHT40	5510	35.16	35.16	≧ 500
	5590	35.15	35.15	≧ 500
	5670	35.14	35.14	≧ 500
11ac VHT80	5530	75.23	75.25	≧ 500
	5610	75.18	75.17	≧ 500
Conclusion: PASS				

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99% bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.8±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.2±0.6 °C

Test Mode	Frequency (MHz)	99% bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5500	16.233	16.232	N/A
	5600	16.248	16.236	N/A
	5700	16.222	16.229	N/A
11n HT20	5500	17.381	17.390	N/A
	5600	17.417	17.402	N/A
	5700	17.374	17.395	N/A
11n HT40	5510	35.673	35.712	N/A
	5590	35.666	35.664	N/A
	5670	35.656	35.671	N/A
11ac VHT20	5500	17.376	17.383	N/A
	5600	17.391	17.392	N/A
	5700	17.367	17.392	N/A
11ac VHT40	5510	35.681	35.681	N/A
	5590	35.697	35.697	N/A
	5670	35.673	35.673	N/A
11ac VHT80	5530	75.022	75.038	N/A
	5610	75.008	75.008	N/A
Conclusion: PASS				

26dB bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.8±1.0 kpa	Humidity: 51.8±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.2±0.6 °C

Test Mode	Frequency (MHz)	-26 bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5500	18.16	18.19	N/A
	5600	18.26	18.30	N/A
	5700	18.15	18.21	N/A
11n HT20	5500	18.85	18.82	N/A
	5600	18.82	18.84	N/A
	5700	18.86	18.84	N/A
11n HT40	5510	38.08	38.16	N/A
	5590	38.07	38.10	N/A
	5670	38.09	38.15	N/A
11ac VHT20	5500	18.82	18.78	N/A
	5600	18.83	18.86	N/A
	5700	18.84	18.81	N/A
11ac VHT40	5510	37.99	38.15	N/A
	5590	37.96	37.88	N/A
	5670	38.12	38.00	N/A
11ac VHT80	5530	78.63	78.48	N/A
	5610	78.64	78.30	N/A
Conclusion: PASS				

**5745-5825MHz Band:
6dB bandwidth**

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.7±1.0 kpa	Humidity: 54.1±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.4±0.6 °C

Test Mode	Frequency (MHz)	6dB bandwidth (MHz)		Limit (KHz)
		ANT0	ANT1	
11a	5745	15.32	15.14	≧ 500
	5785	15.32	15.28	≧ 500
	5825	15.35	15.30	≧ 500
11n HT20	5745	15.12	15.15	≧ 500
	5785	15.15	15.48	≧ 500
	5825	15.11	15.15	≧ 500
11n HT40	5755	35.16	35.04	≧ 500
	5795	35.15	35.15	≧ 500
11ac VHT20	5745	15.09	15.18	≧ 500
	5785	15.07	15.13	≧ 500
	5825	15.15	15.12	≧ 500
11ac VHT40	5755	35.15	35.14	≧ 500
	5795	35.10	35.12	≧ 500
11ac VHT80	5775	75.24	75.21	≧ 500
Conclusion: PASS				

99% bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.7±1.0 kpa	Humidity: 54.1±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.4±0.6 °C

Test Mode	Frequency (MHz)	99% bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5745	16.246	16.239	N/A
	5785	16.239	16.236	N/A
	5825	16.238	16.234	N/A
11n HT20	5745	17.393	17.384	N/A
	5785	17.378	17.383	N/A
	5825	17.405	17.373	N/A
11n HT40	5755	35.649	35.669	N/A
	5795	35.655	35.655	N/A
11ac VHT20	5745	17.379	17.388	N/A
	5785	17.394	17.387	N/A
	5825	17.385	17.394	N/A
11ac VHT40	5755	35.653	35.669	N/A
	5795	35.697	35.700	N/A
11ac VHT80	5775	75.021	74.999	N/A
Conclusion: PASS				

26dB bandwidth

EUT: Notebook PC		
M/N: RZ09-0239		
Test date: 2017-08-30~09-07	Pressure: 102.7±1.0 kpa	Humidity: 54.1±3.0%
Tested by: Kebo	Test site: RF site	Temperature: 23.4±0.6 °C

Test Mode	Frequency (MHz)	-26 bandwidth (MHz)		Limit (MHz)
		ANT0	ANT1	
11a	5745	18.34	18.34	N/A
	5785	18.50	18.41	N/A
	5825	18.39	14.49	N/A
11n HT20	5745	18.83	18.83	N/A
	5785	18.83	18.86	N/A
	5825	18.84	18.85	N/A
11n HT40	5755	38.02	38.04	N/A
	5795	38.10	38.08	N/A
11ac VHT20	5745	18.85	18.86	N/A
	5785	18.84	18.89	N/A
	5825	18.84	18.85	N/A
11ac VHT40	5755	37.89	38.05	N/A
	5795	37.86	37.98	N/A
11ac VHT80	5775	78.27	78.53	N/A
Conclusion: PASS				

**5180-5240MHz Band:
6dB & 99% bandwidth**

ANT0

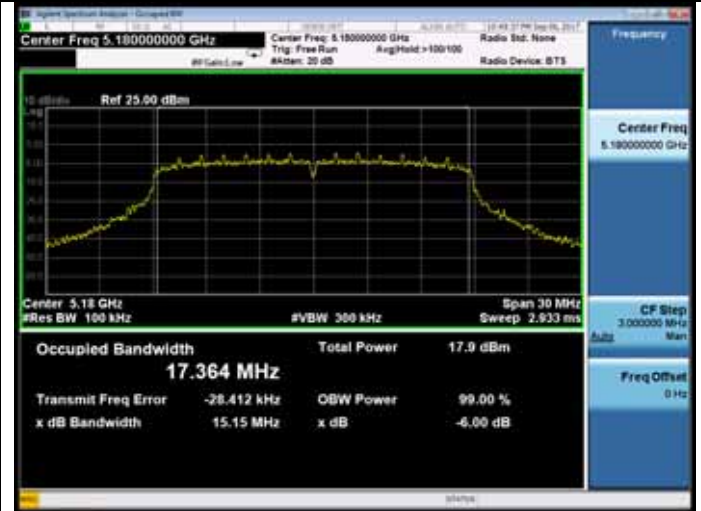
11a

5180MHz

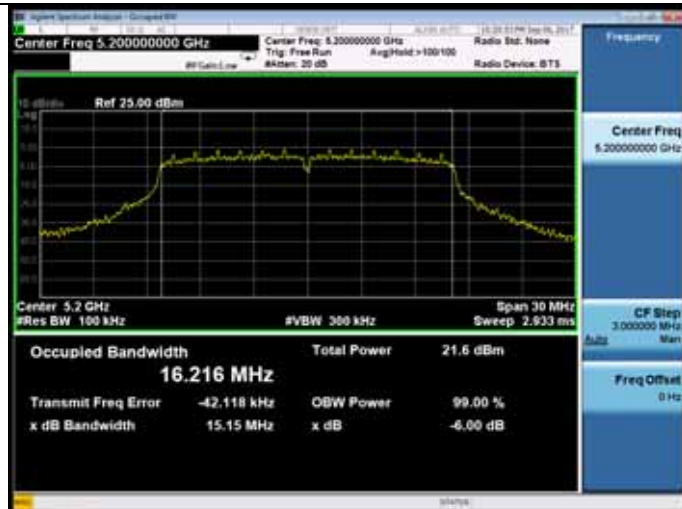


11n HT20

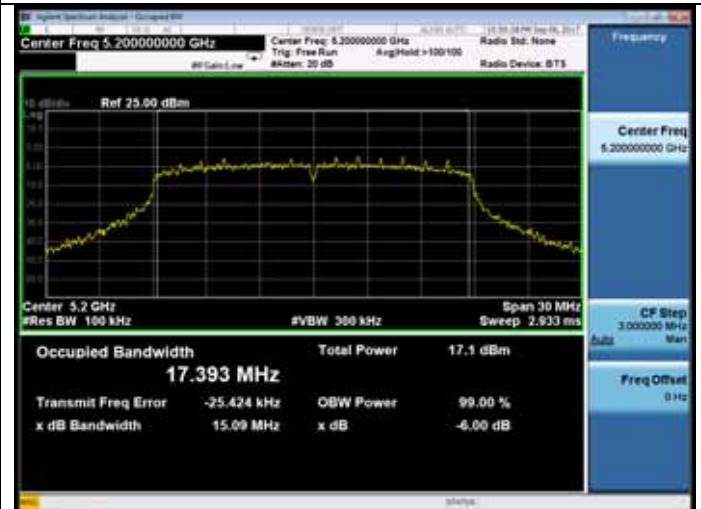
5180MHz



5200MHz



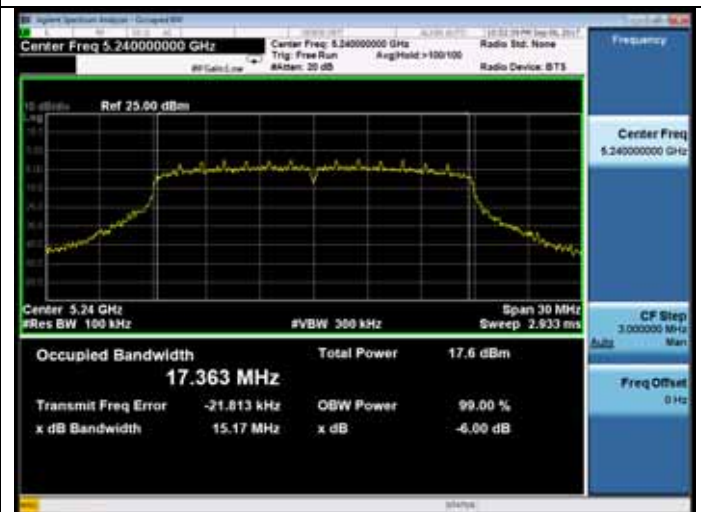
5200MHz



5240MHz



5240MHz

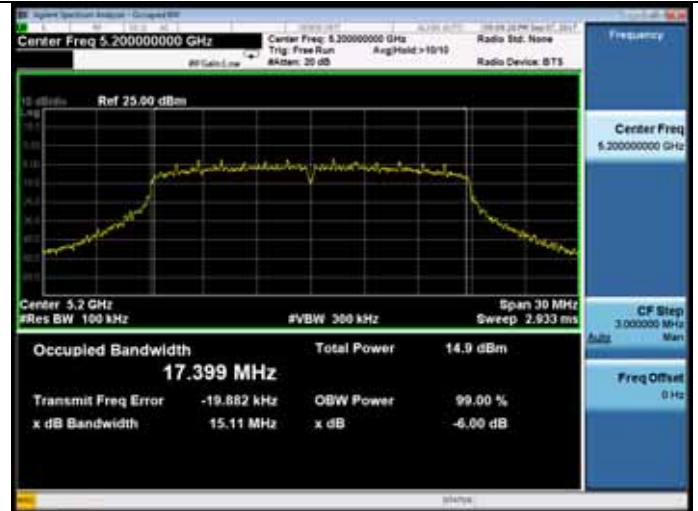


11n HT40

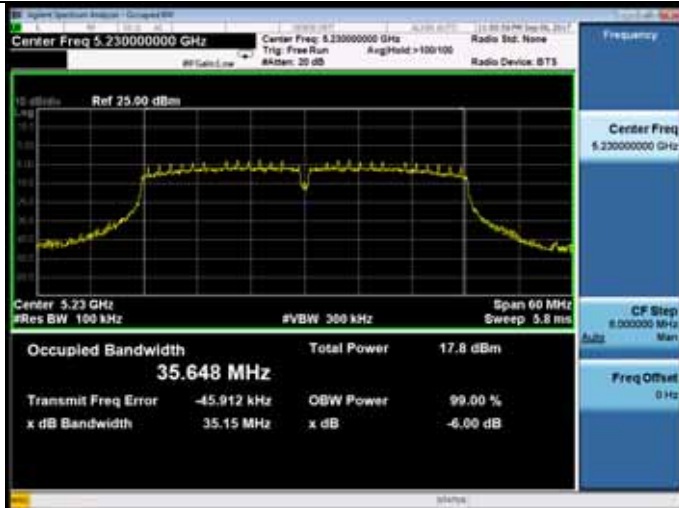
5190MHz



5200MHz



5230MHz



5240MHz



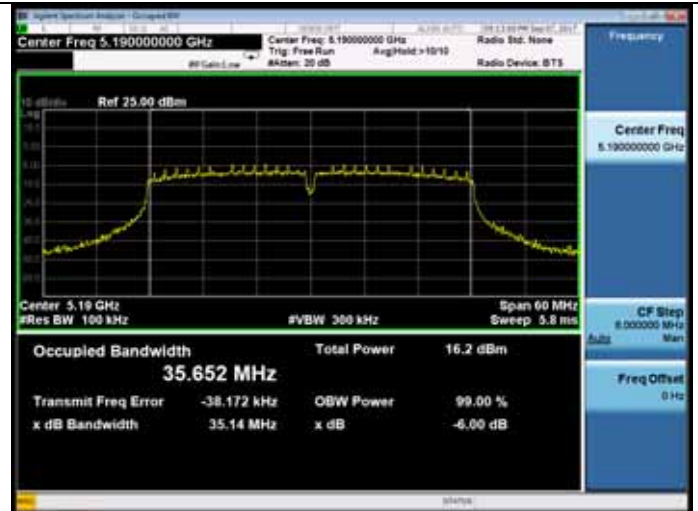
11ac VHT20

5180MHz



11ac VHT40

5190MHz

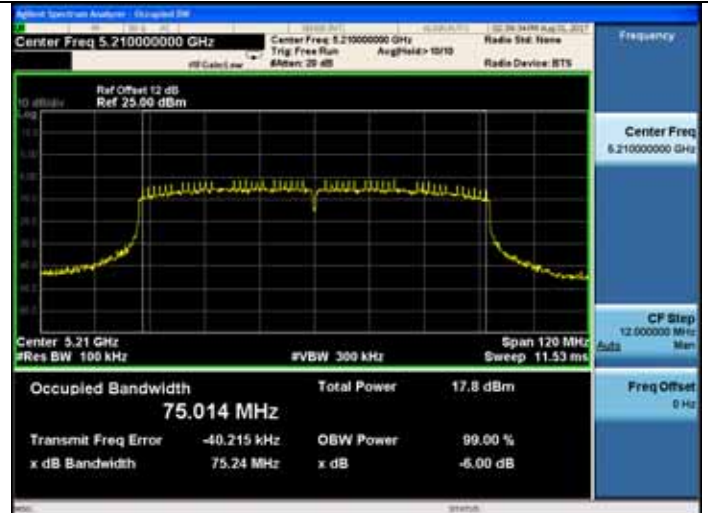


5230MHz



11ac VHT80

5210MHz



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**5180-5240MHz Band:
6dB & 99% bandwidth
ANT 1**

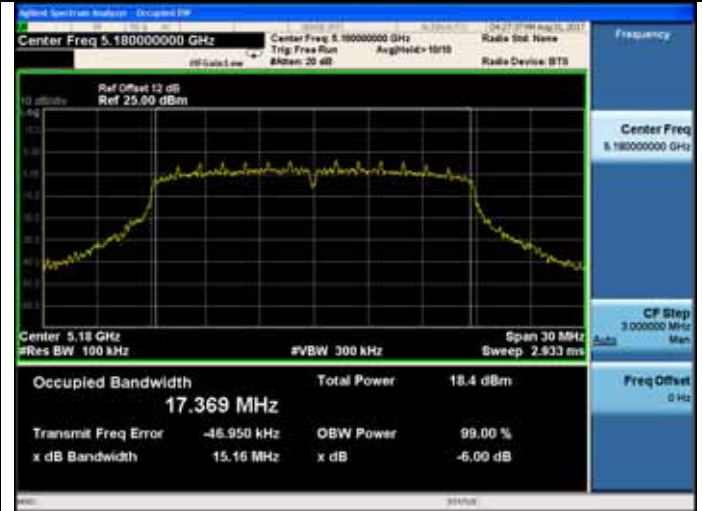
11a

5180MHz

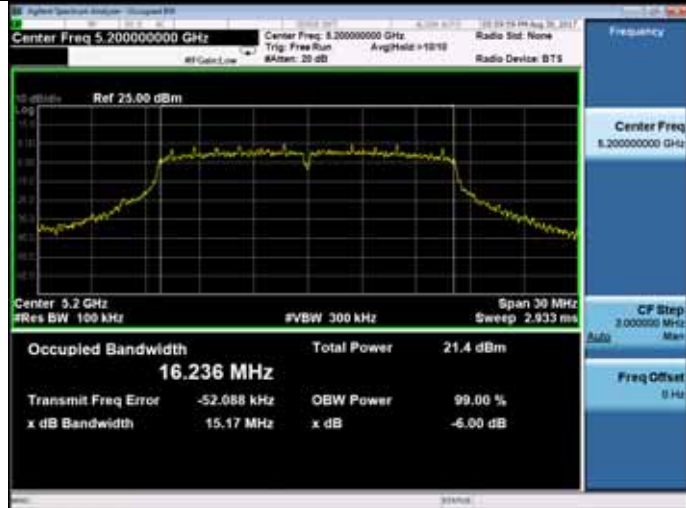


11n HT20

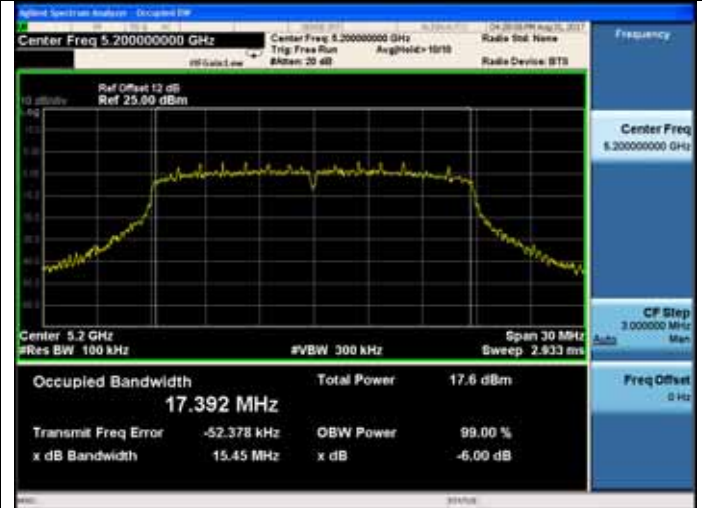
5180MHz



5200MHz



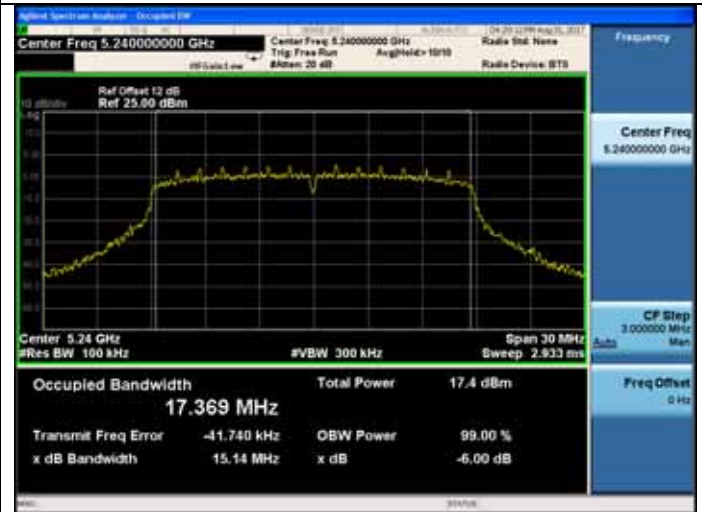
5200MHz



5240MHz

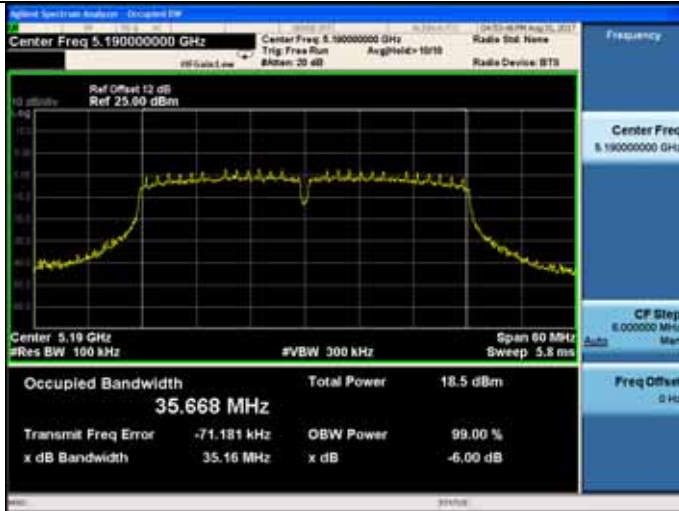


5240MHz

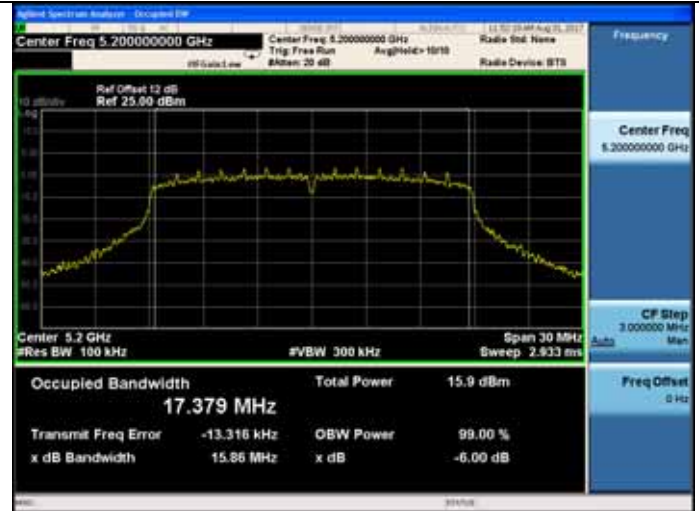


11n HT40

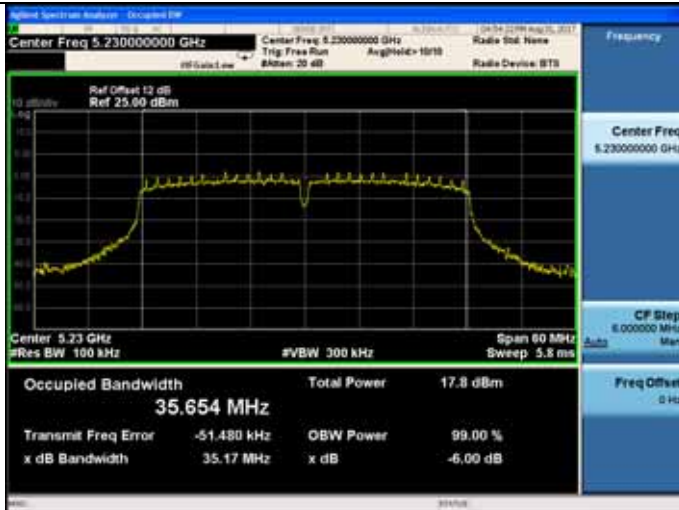
5190MHz



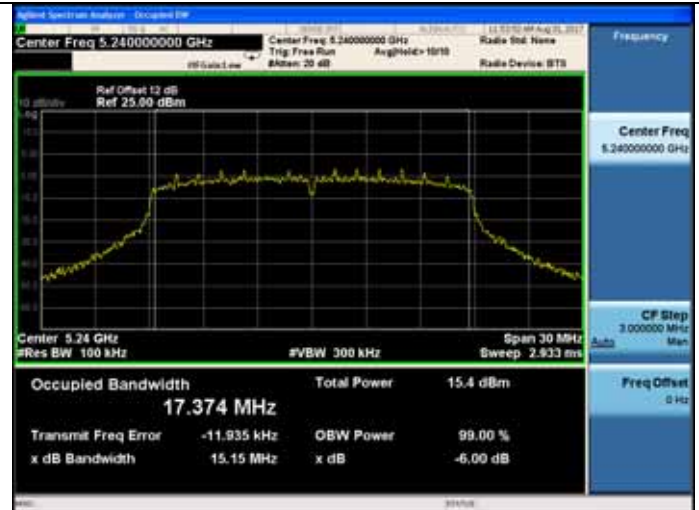
5200MHz



5230MHz

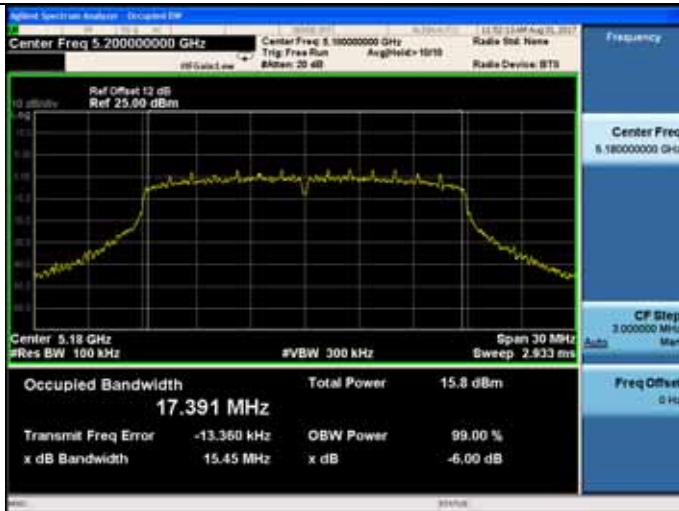


5240MHz



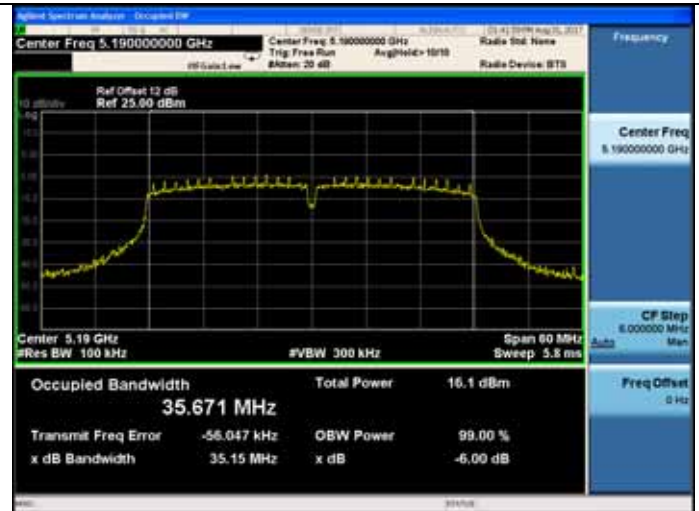
11ac VHT20

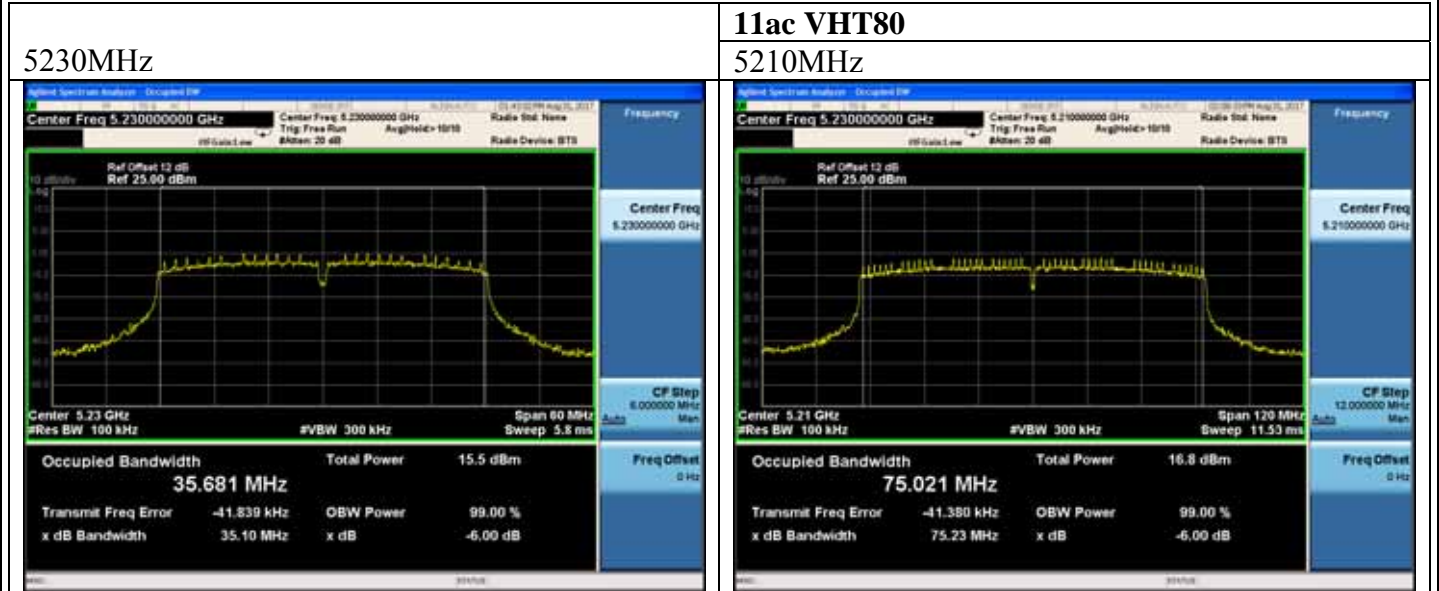
5180MHz



11ac VHT40

5190MHz





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5180-5240MHz Band:

26dB bandwidth

ANT 0

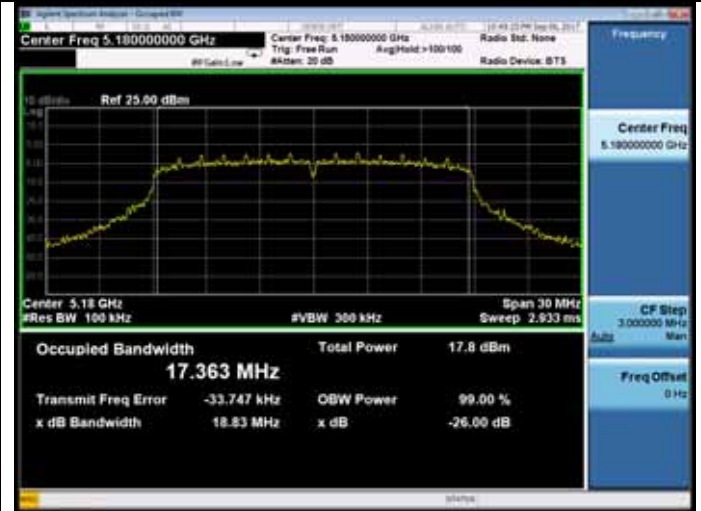
11a

5180MHz



11n HT20

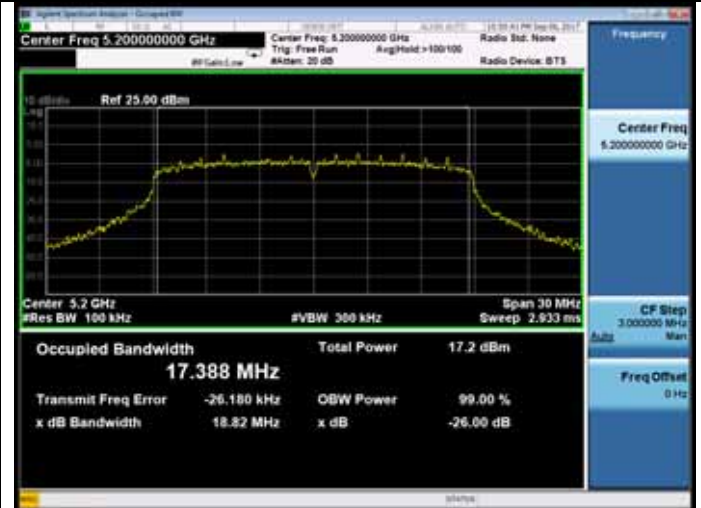
5180MHz



5200MHz



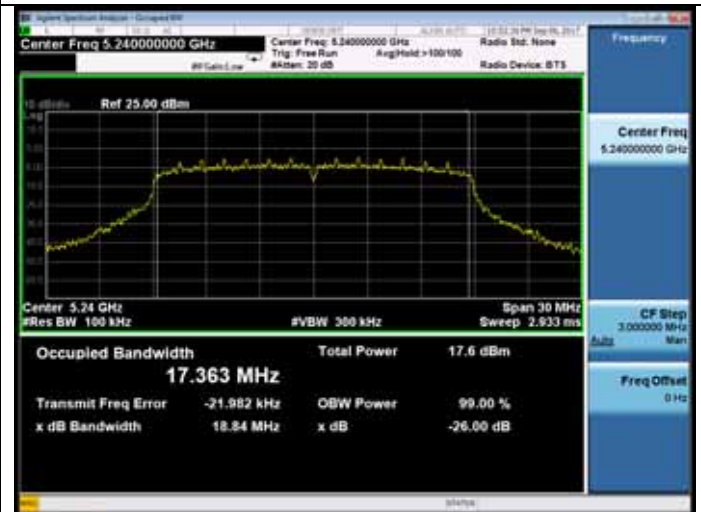
5200MHz



5240MHz

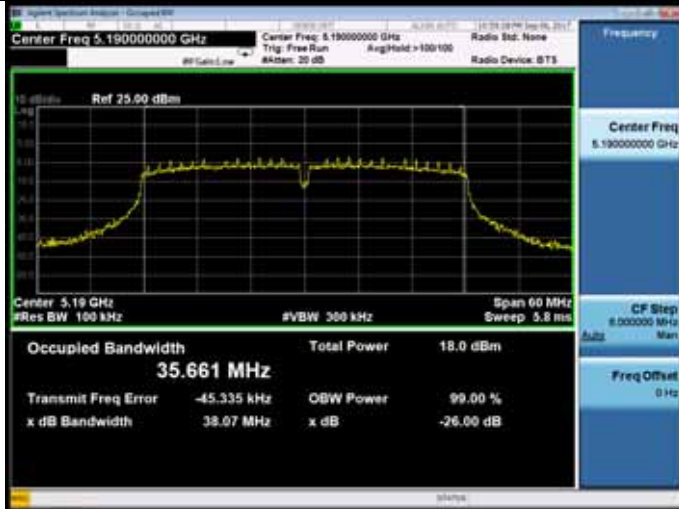


5240MHz

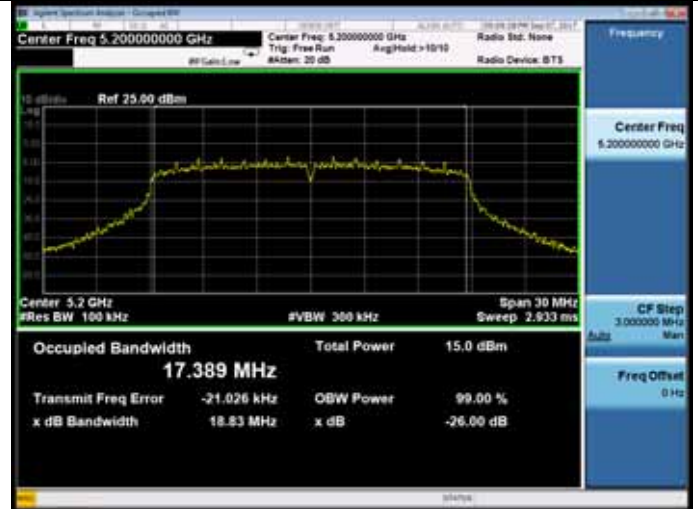


11n HT40

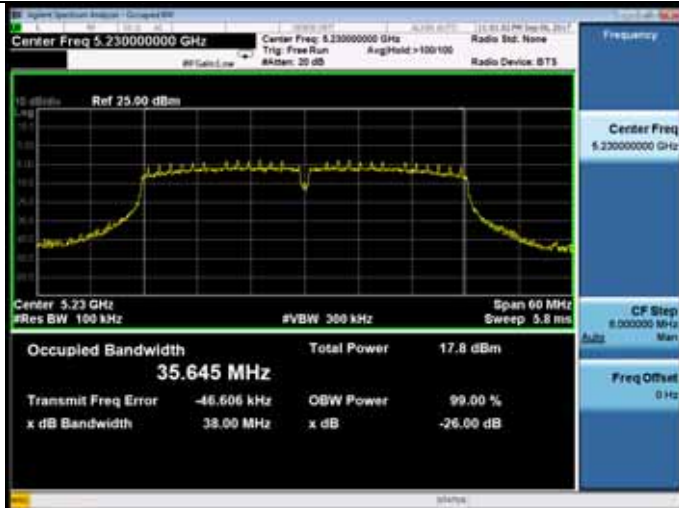
5190MHz



5200MHz



5230MHz

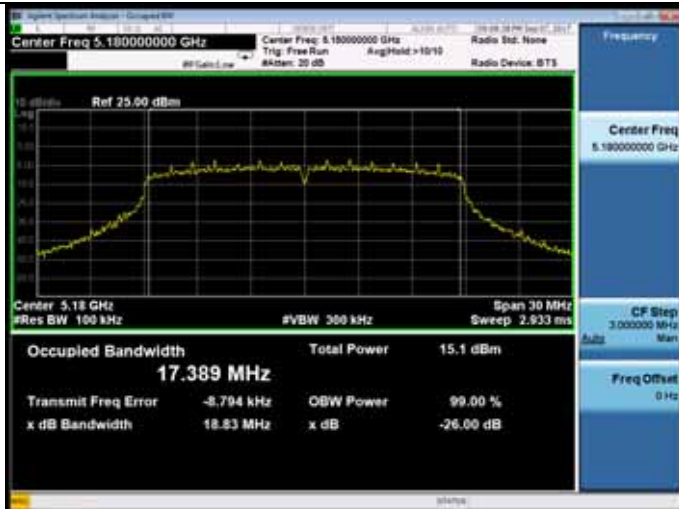


5240MHz



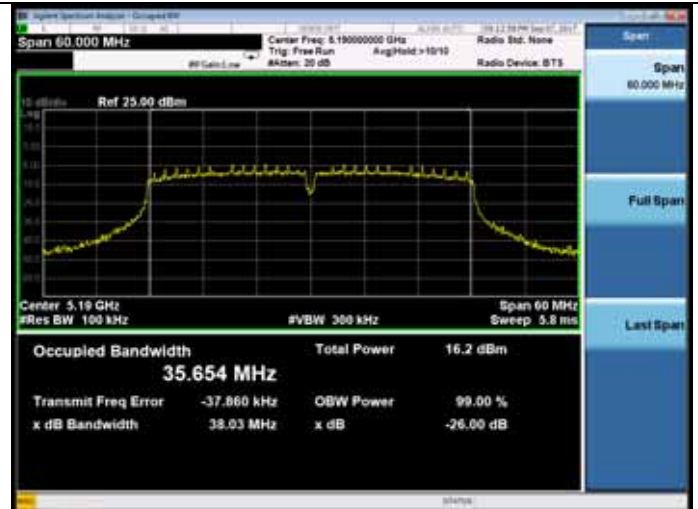
11ac VHT20

5180MHz



11ac VHT40

5190MHz

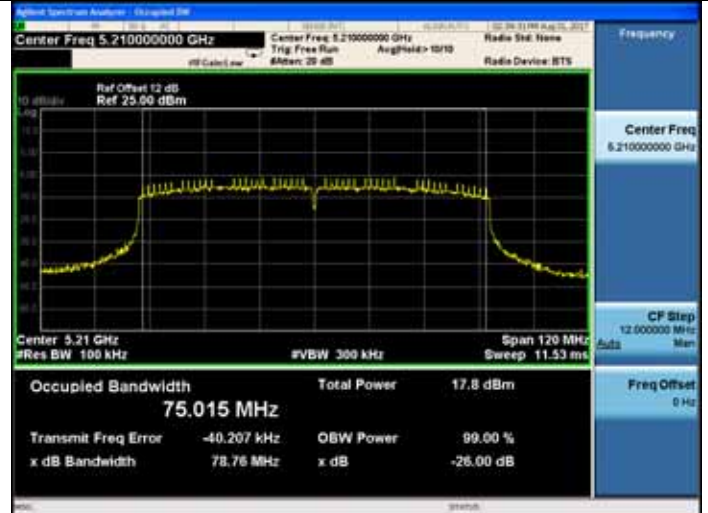


5230MHz



11ac VHT80

5210MHz



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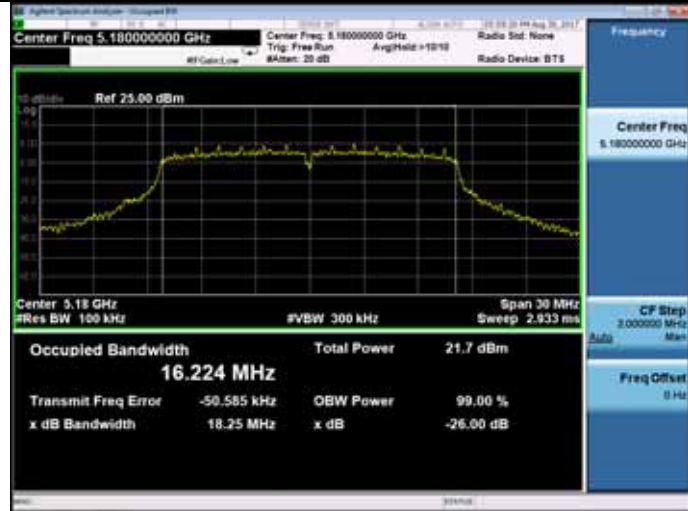
5180-5240MHz Band:

26dB bandwidth

ANT 1

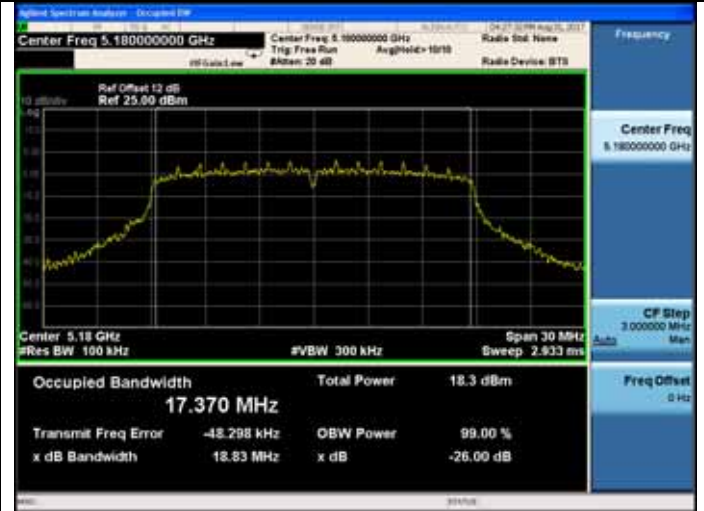
11a

5180MHz



11n HT20

5180MHz



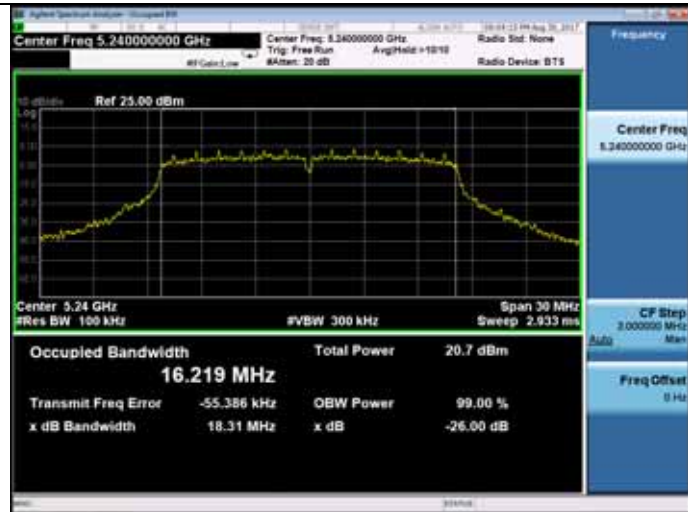
5200MHz



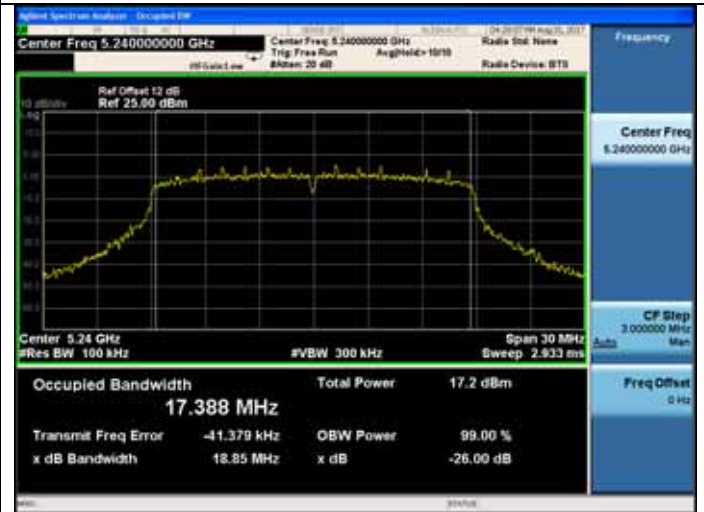
5200MHz



5240MHz

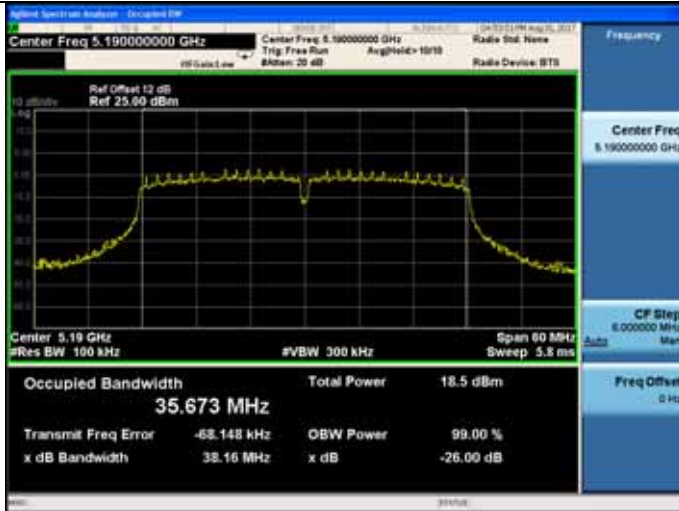


5240MHz

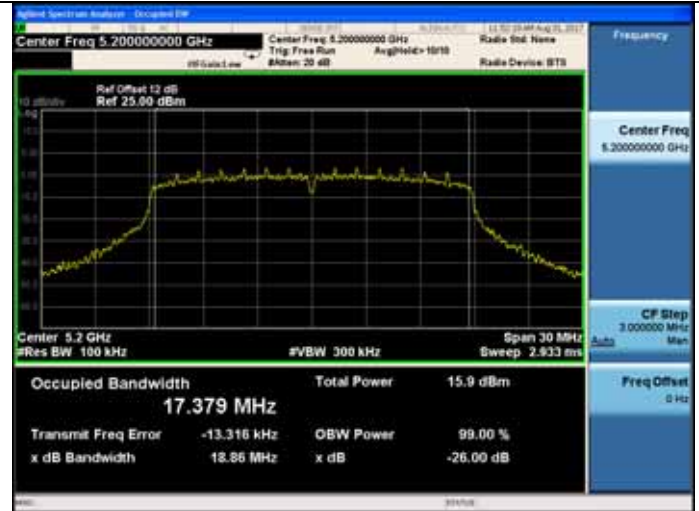


11n HT40

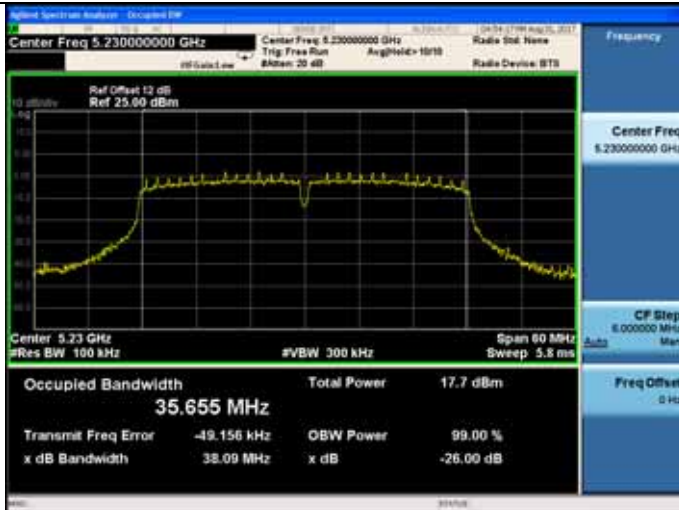
5190MHz



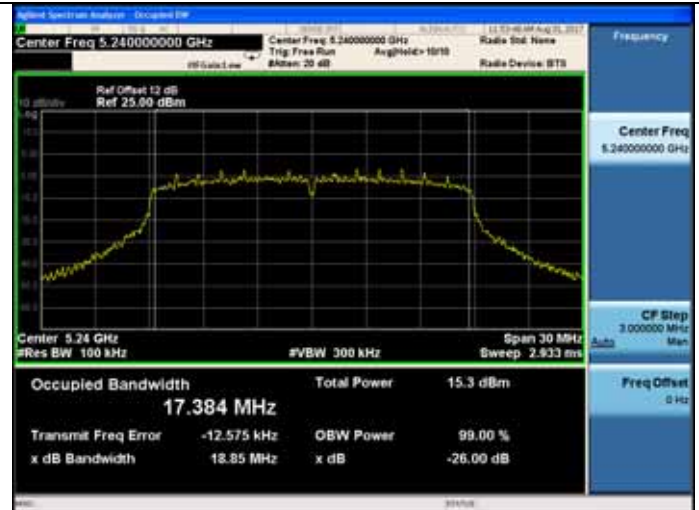
5200MHz



5230MHz

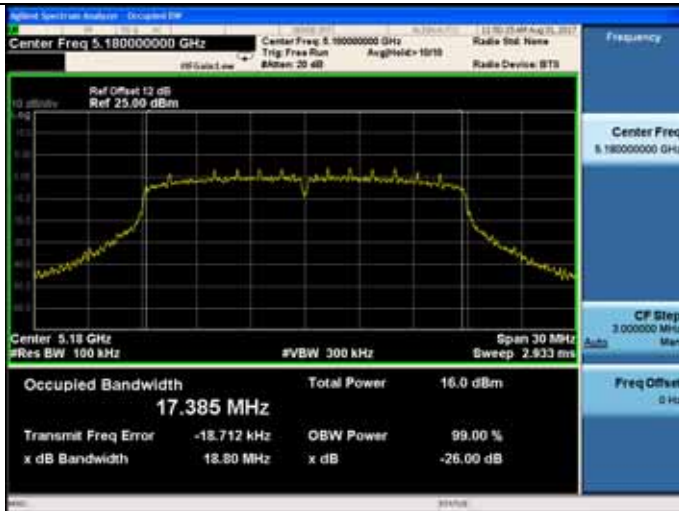


5240MHz



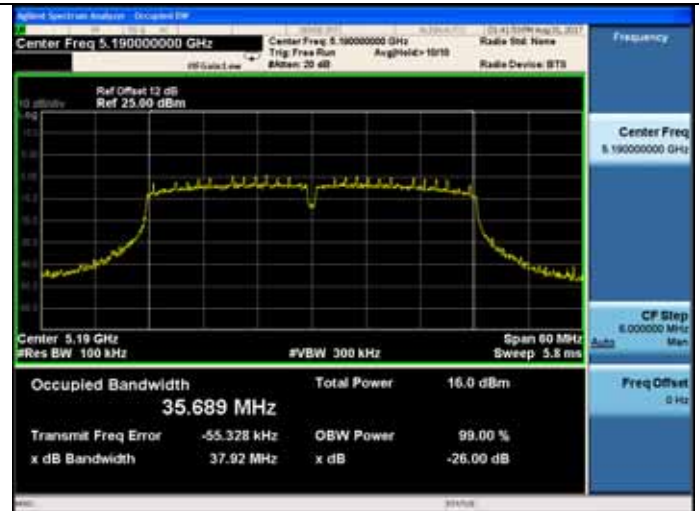
11ac VHT20

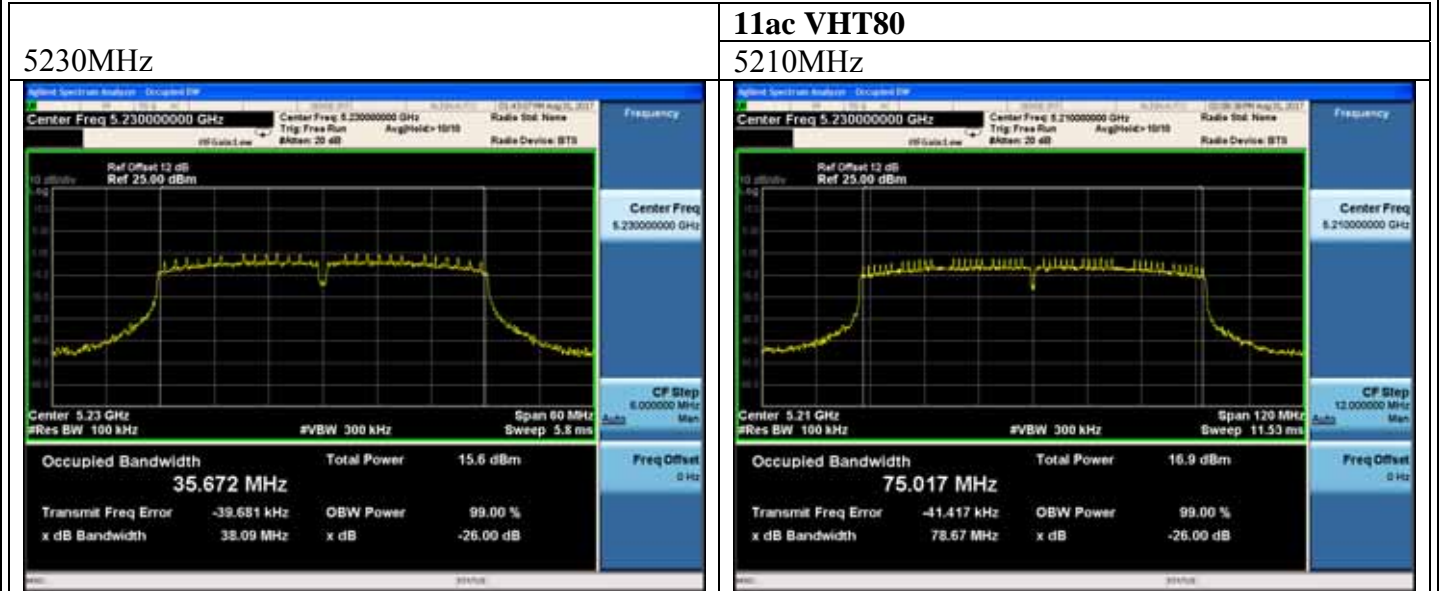
5180MHz



11ac VHT40

5190MHz





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**5260-5320MHz Band:
6dB & 99% bandwidth
ANT 0**

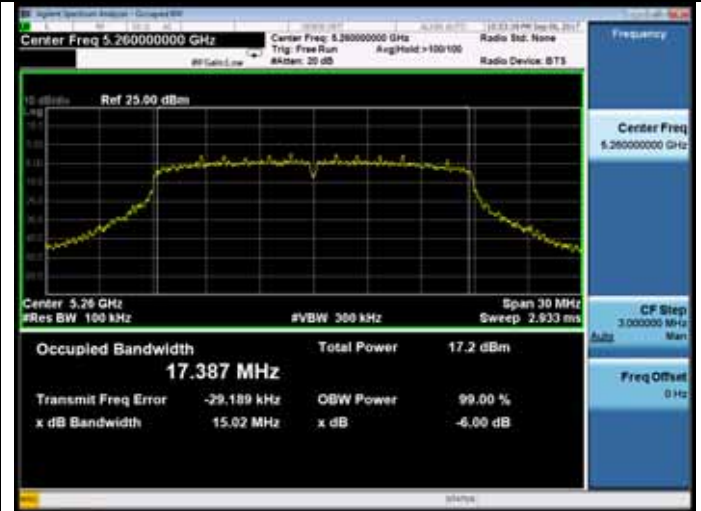
11a

5260MHz



11n HT20

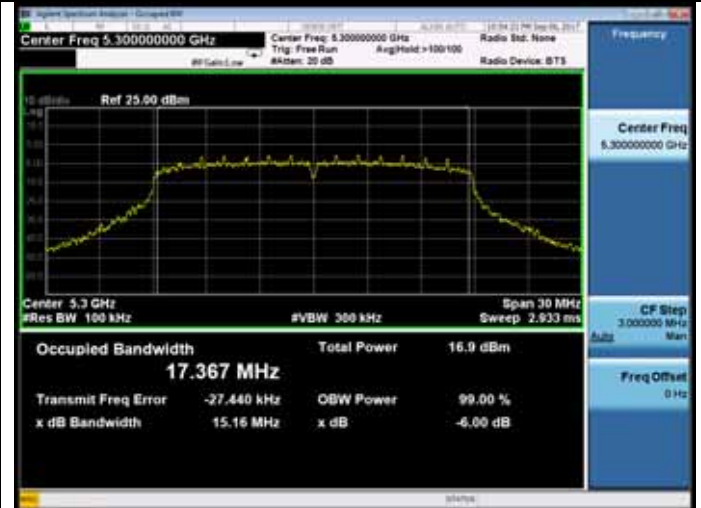
5260MHz



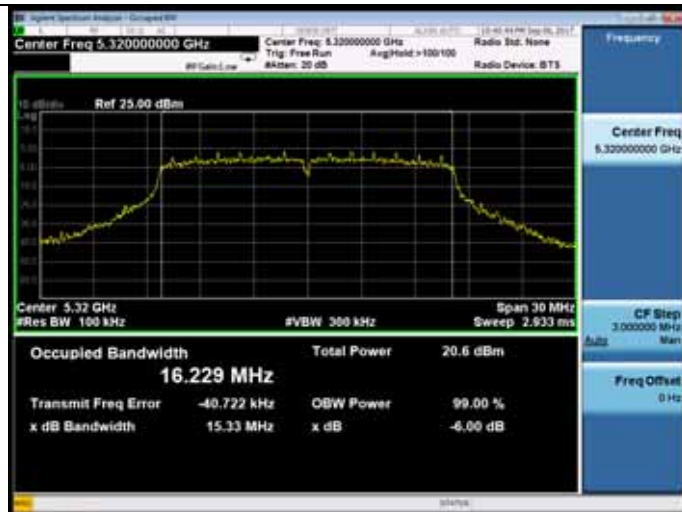
5300MHz



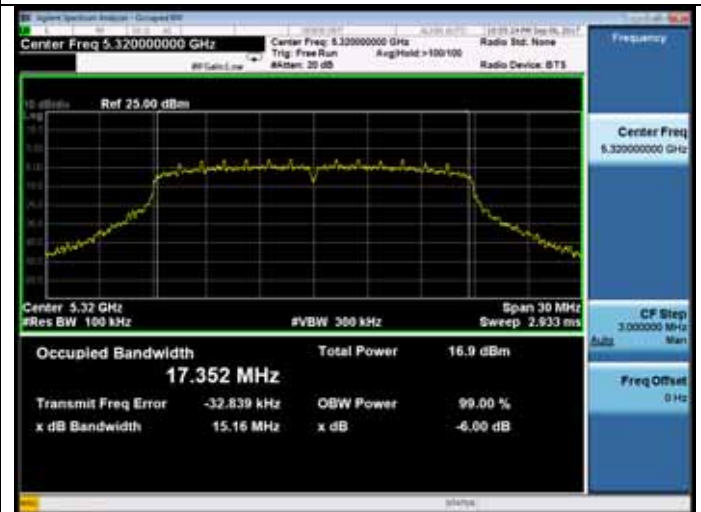
5300MHz



5320MHz



5320MHz

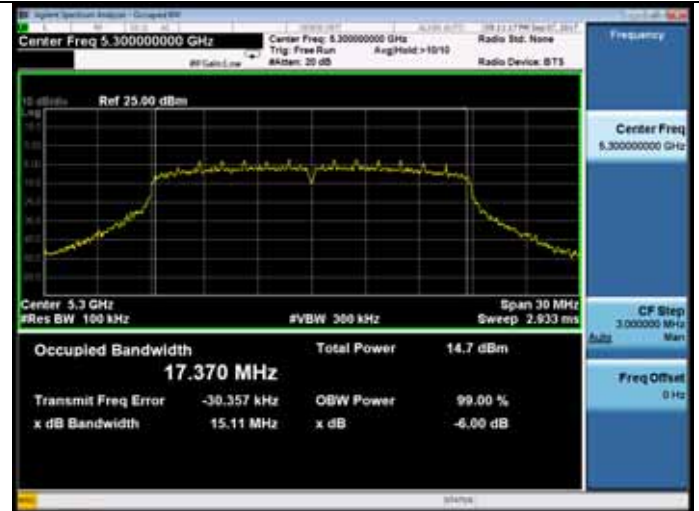


11n HT40

5270MHz



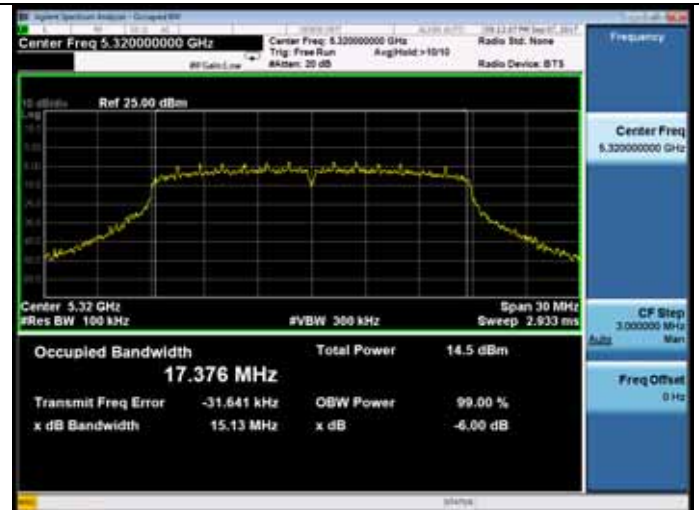
5300MHz



5310MHz

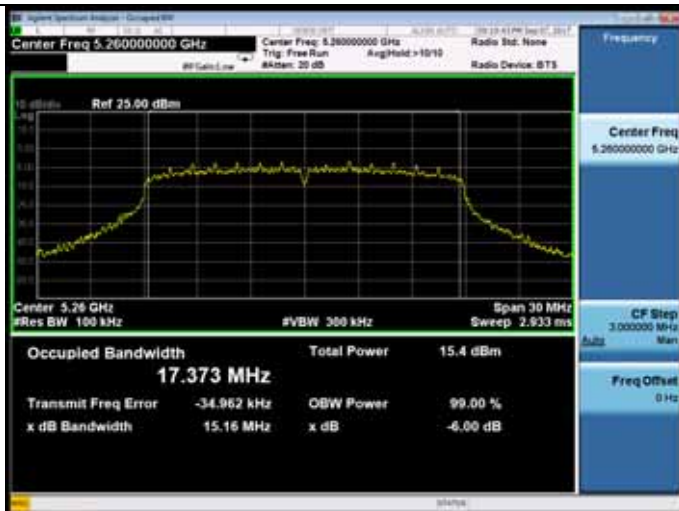


5320MHz



11ac VHT20

5260MHz



11ac VHT40

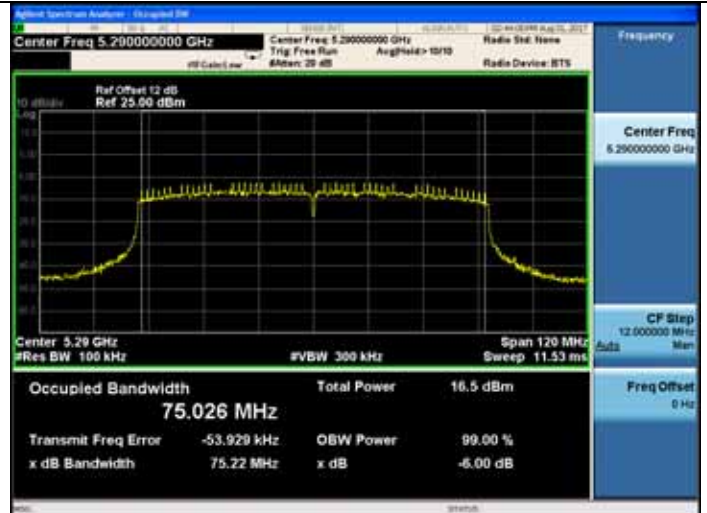
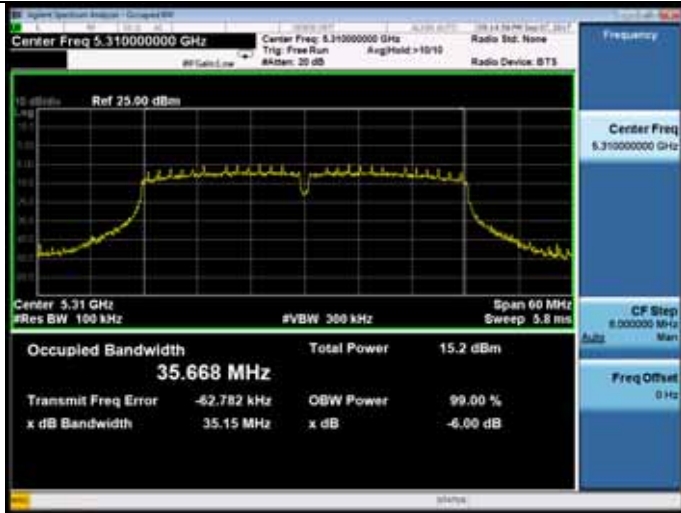
5270MHz



5310MHz

11ac VHT80

5290MHz



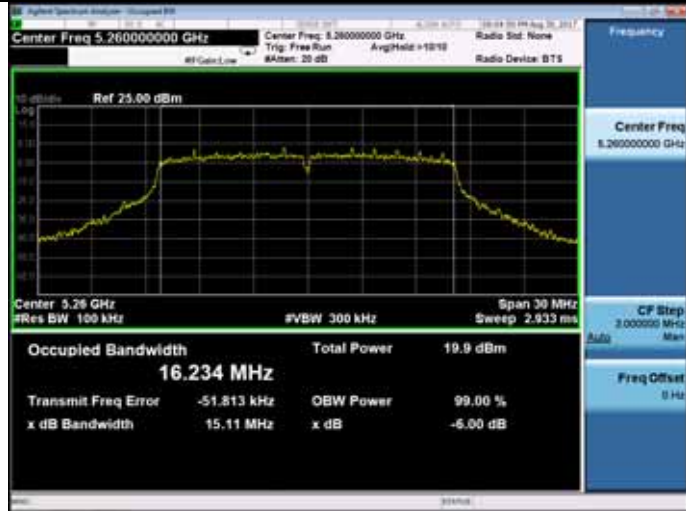
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**5260-5320MHz Band:
6dB & 99% bandwidth
ANT 1**

11a

5260MHz



11n HT20

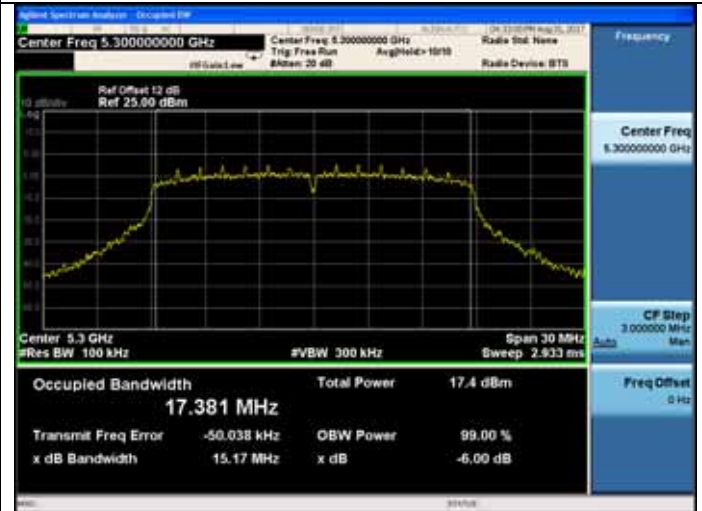
5260MHz



5300MHz



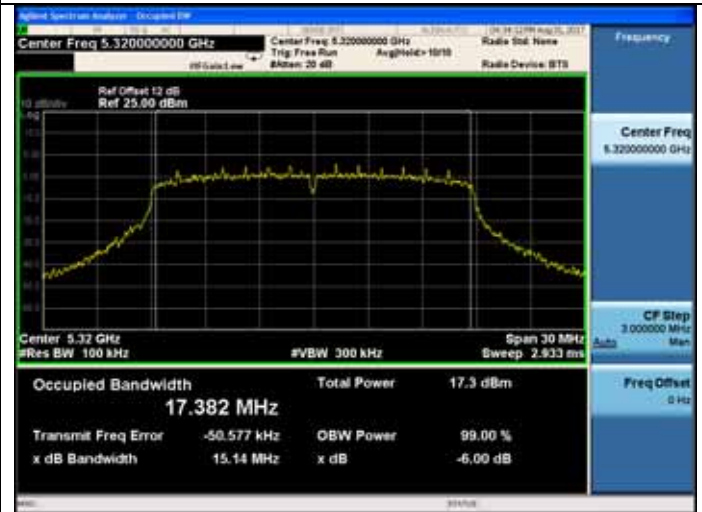
5300MHz



5320MHz



5320MHz

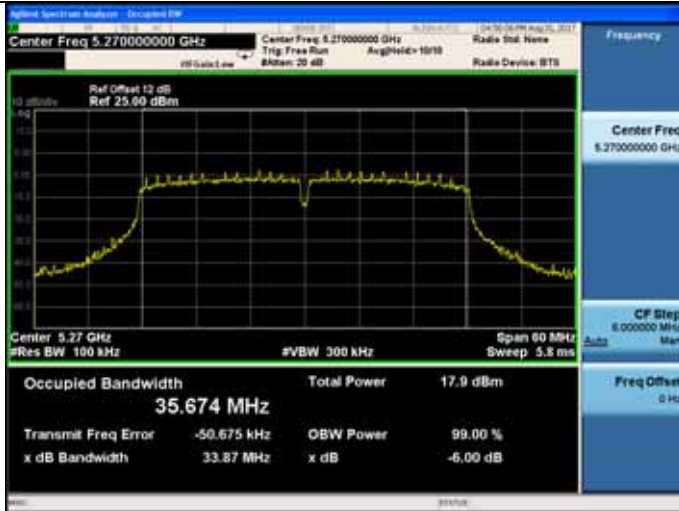


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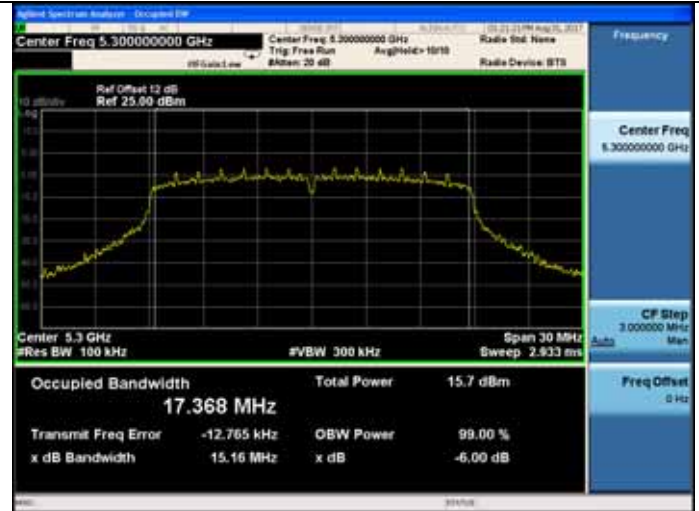
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11n HT40

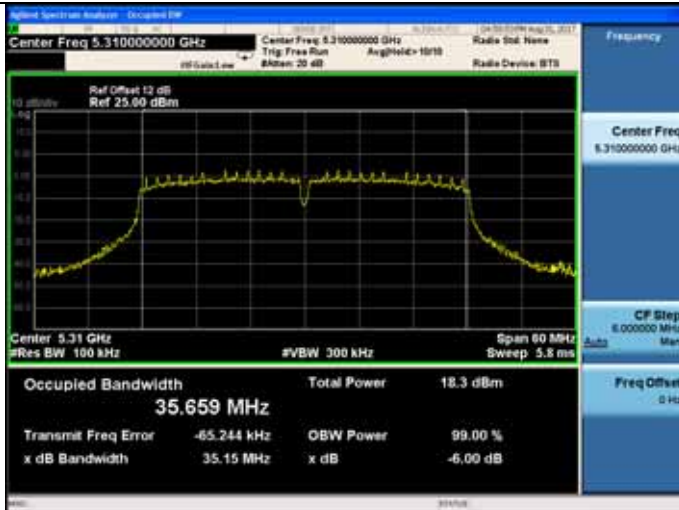
5270MHz



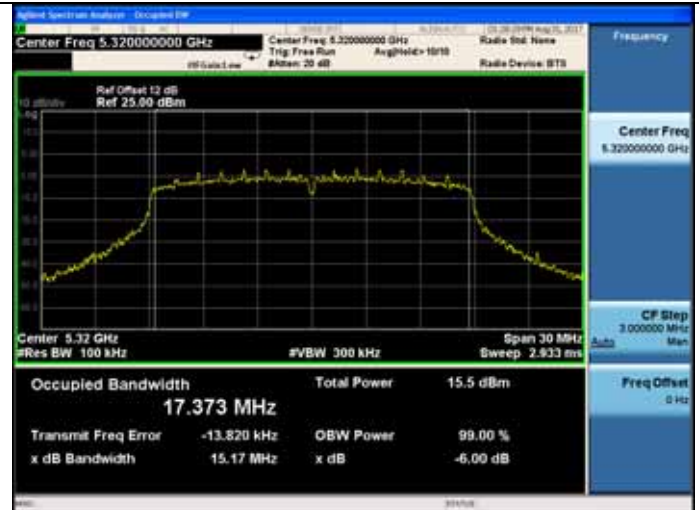
5300MHz



5310MHz

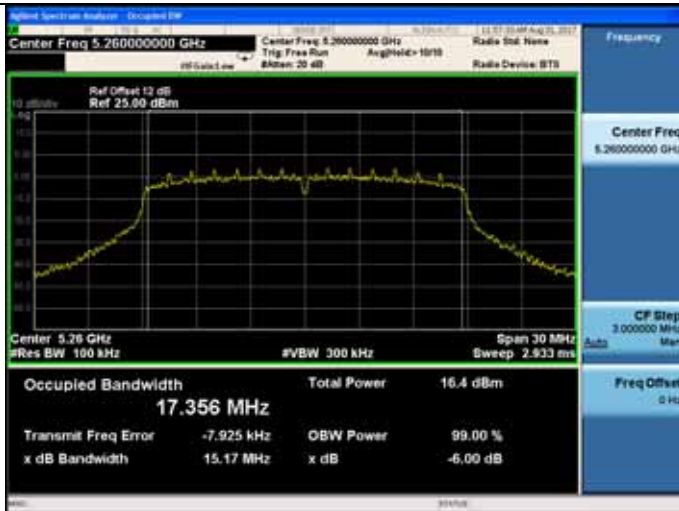


5320MHz



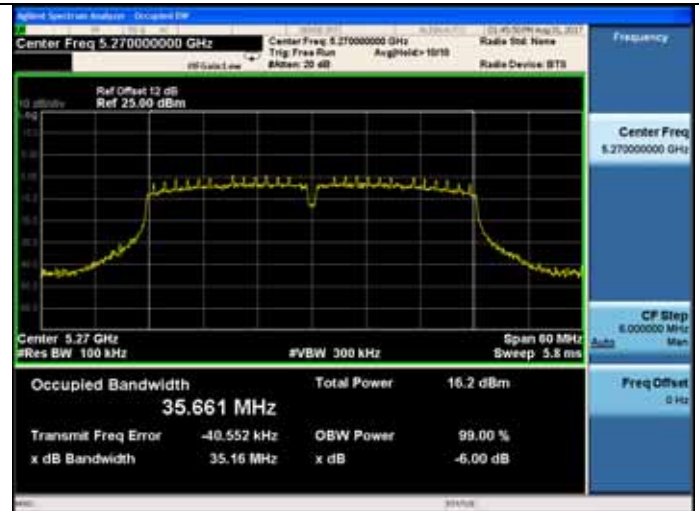
11ac VHT20

5260MHz



11ac VHT40

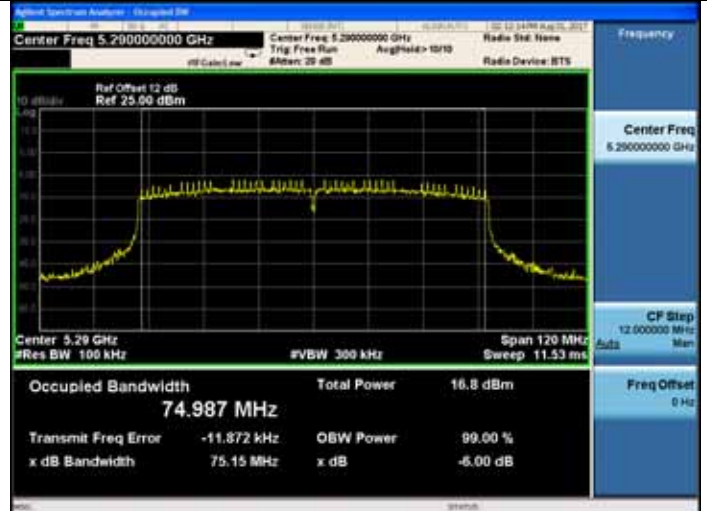
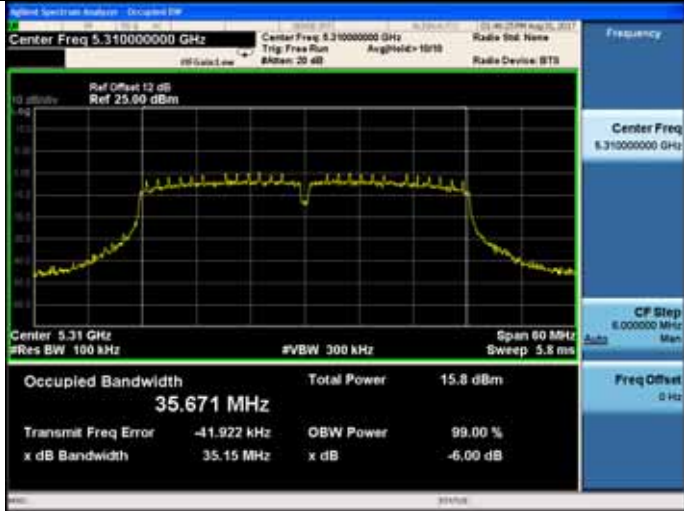
5270MHz



5310MHz

11ac VHT80

5290MHz



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5260-5320MHz Band:

26dB bandwidth

ANT 0

11a

5260MHz



11n HT20

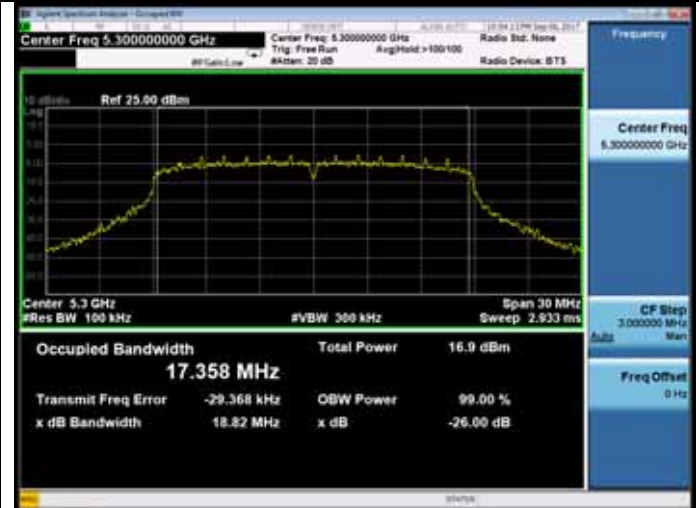
5260MHz



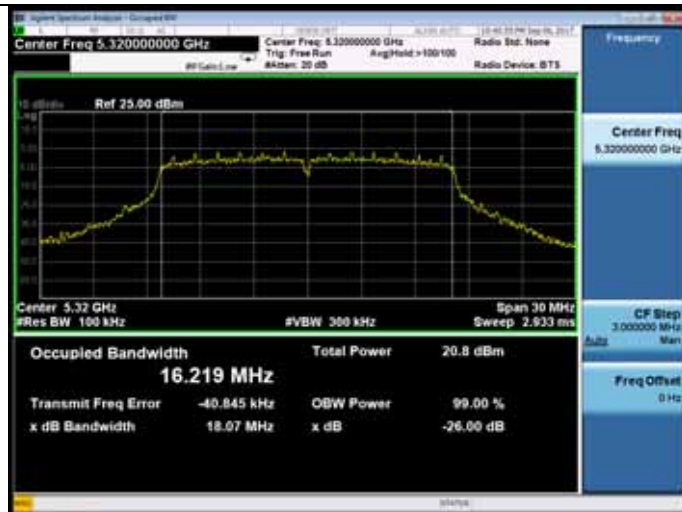
5300MHz



5300MHz



5320MHz



5320MHz

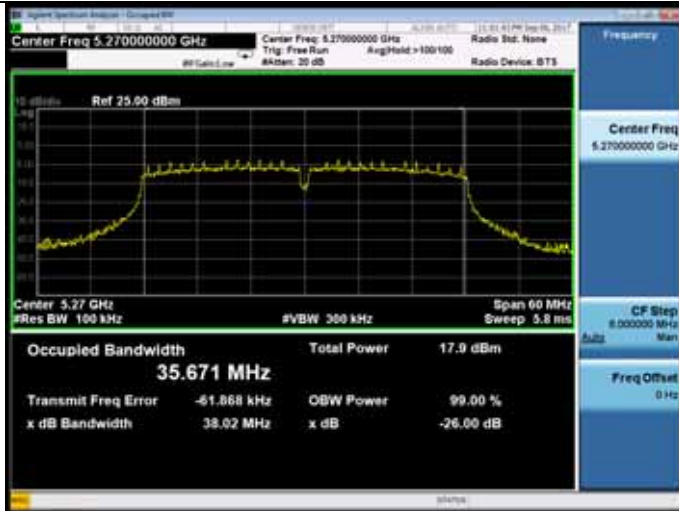


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11n HT40

5270MHz



5300MHz



5310MHz

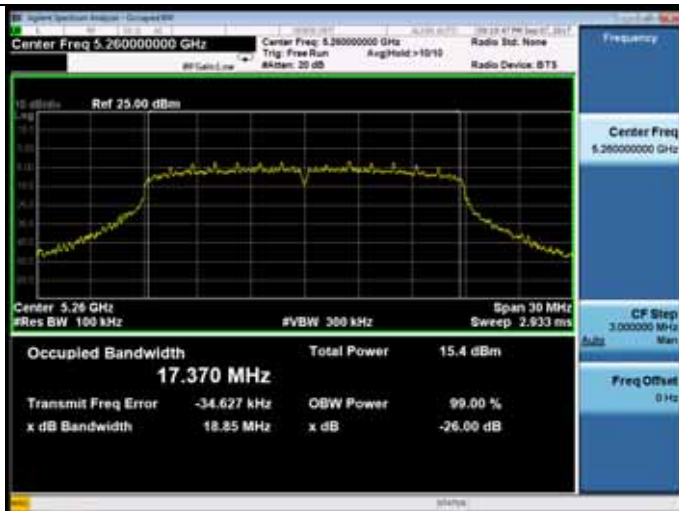


5320MHz



11ac VHT20

5260MHz



11ac VHT40

5270MHz

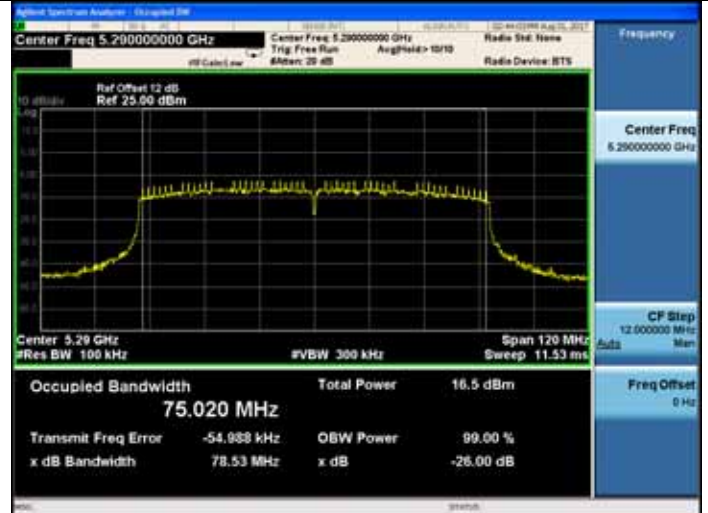


5310MHz



11ac VHT80

5290MHz



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5260-5320MHz Band:

26dB bandwidth

ANT 1

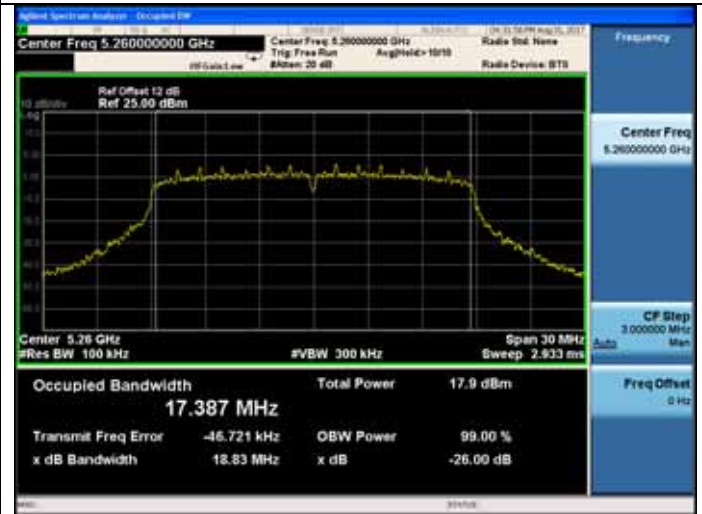
11a

5260MHz



11n HT20

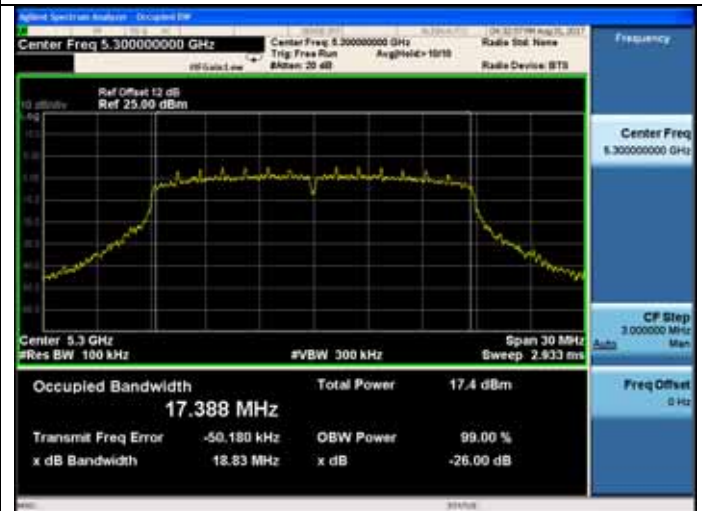
5260MHz



5300MHz



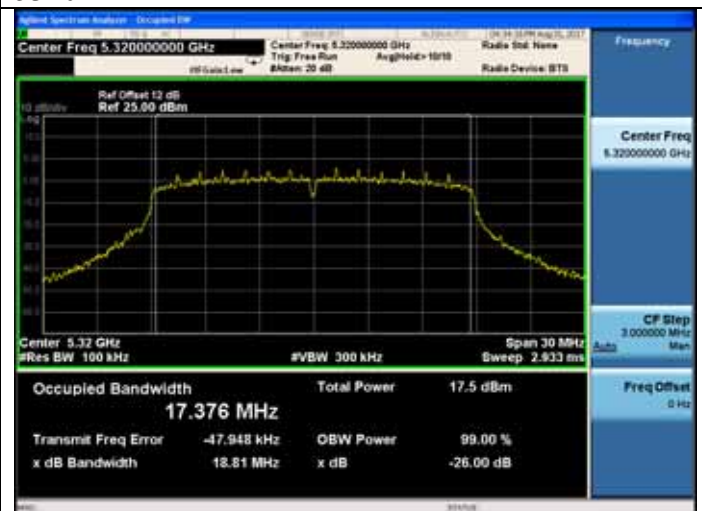
5300MHz



5320MHz

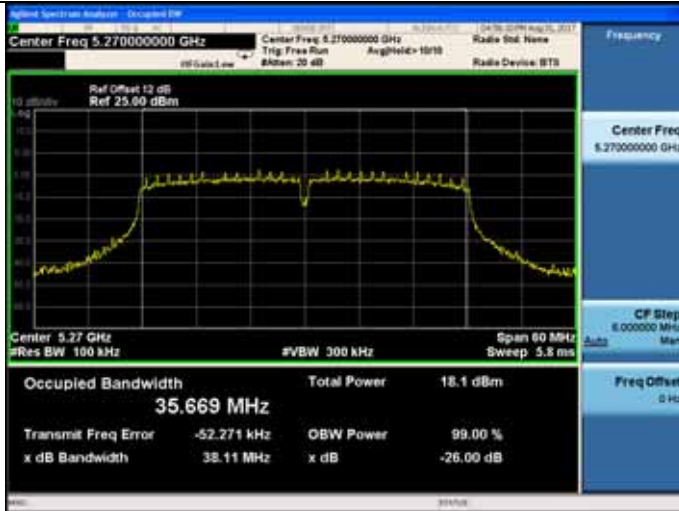


5320MHz

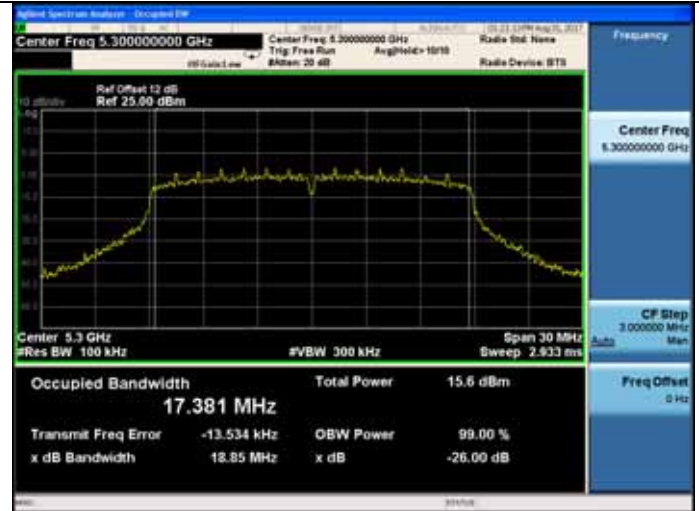


11n HT40

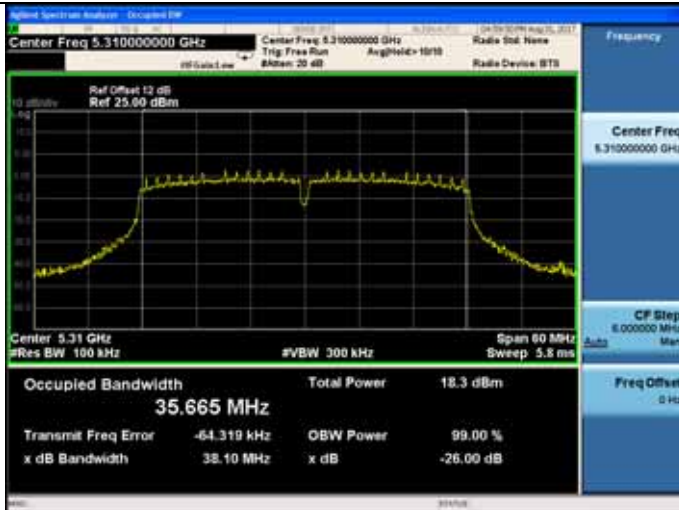
5270MHz



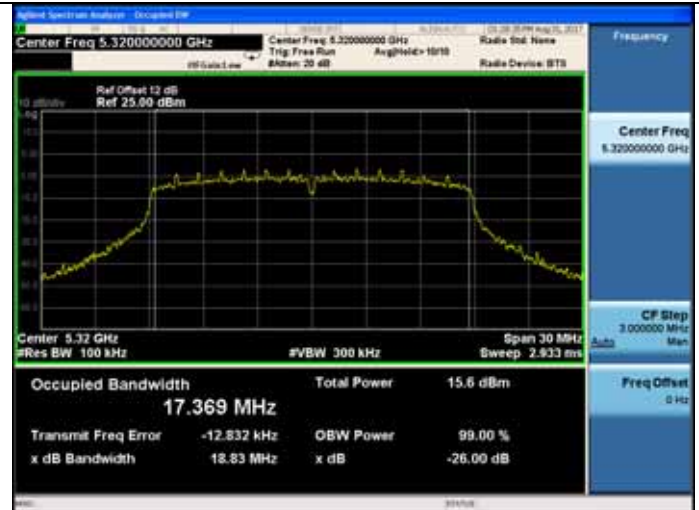
5300MHz



5310MHz

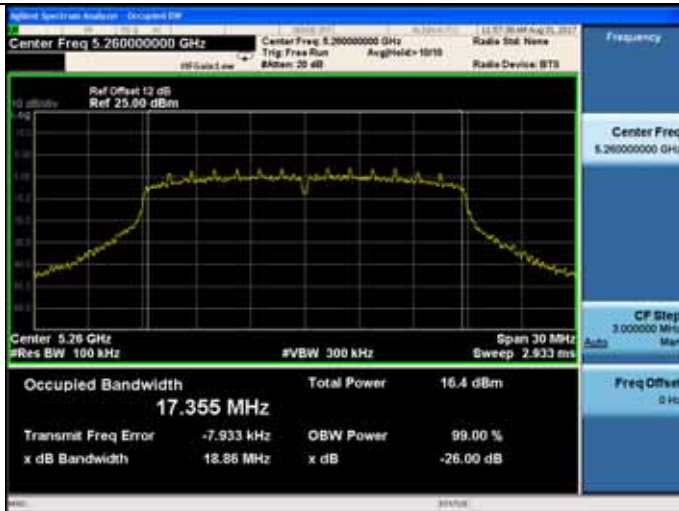


5320MHz



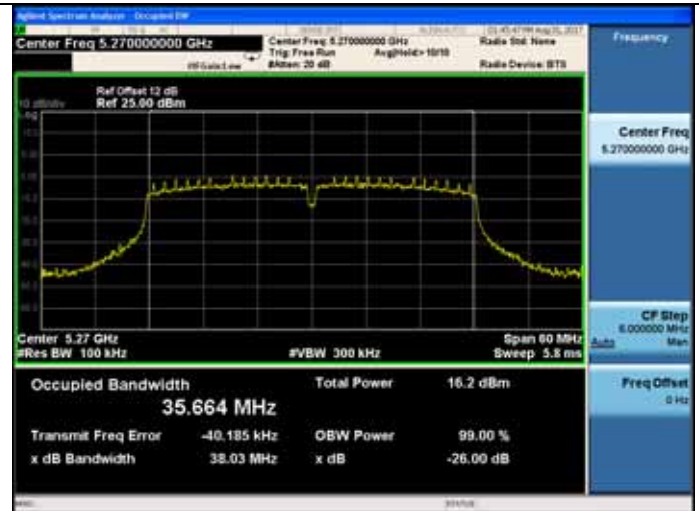
11ac VHT20

5260MHz



11ac VHT40

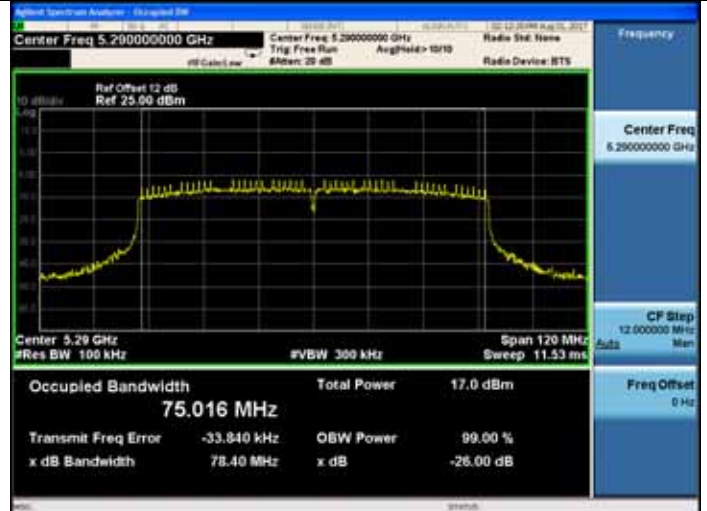
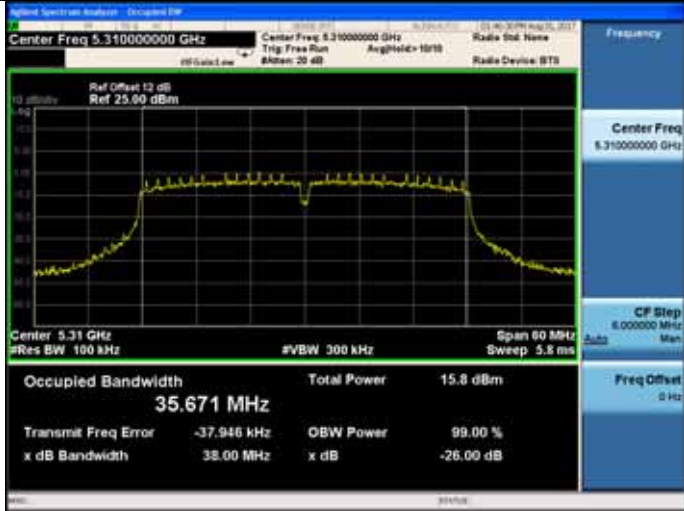
5270MHz



5310MHz

11ac VHT80

5290MHz



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**5500-5700MHz Band:
6dB & 99% bandwidth
ANT 0**

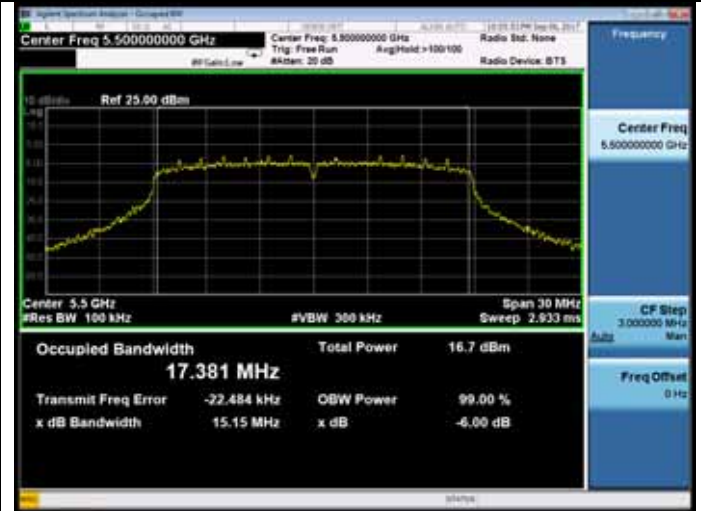
11a

5500MHz



11n HT20

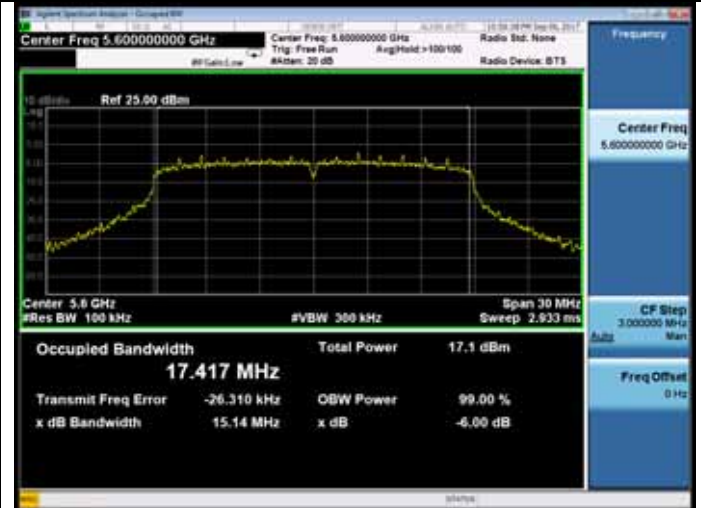
5500MHz



5600MHz



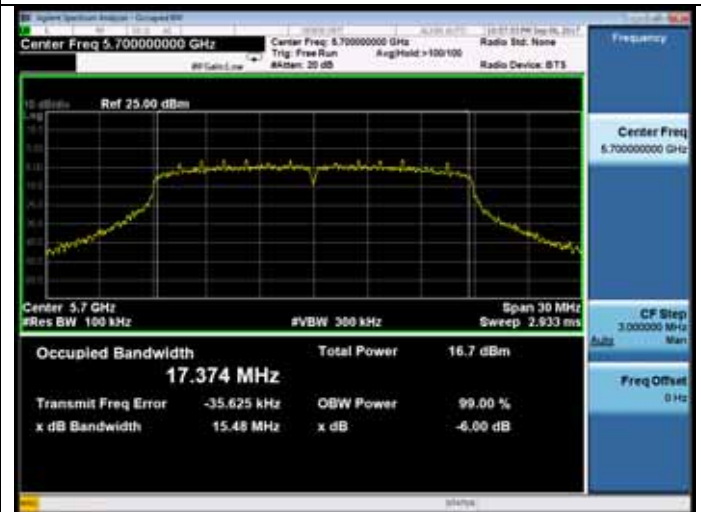
5600MHz

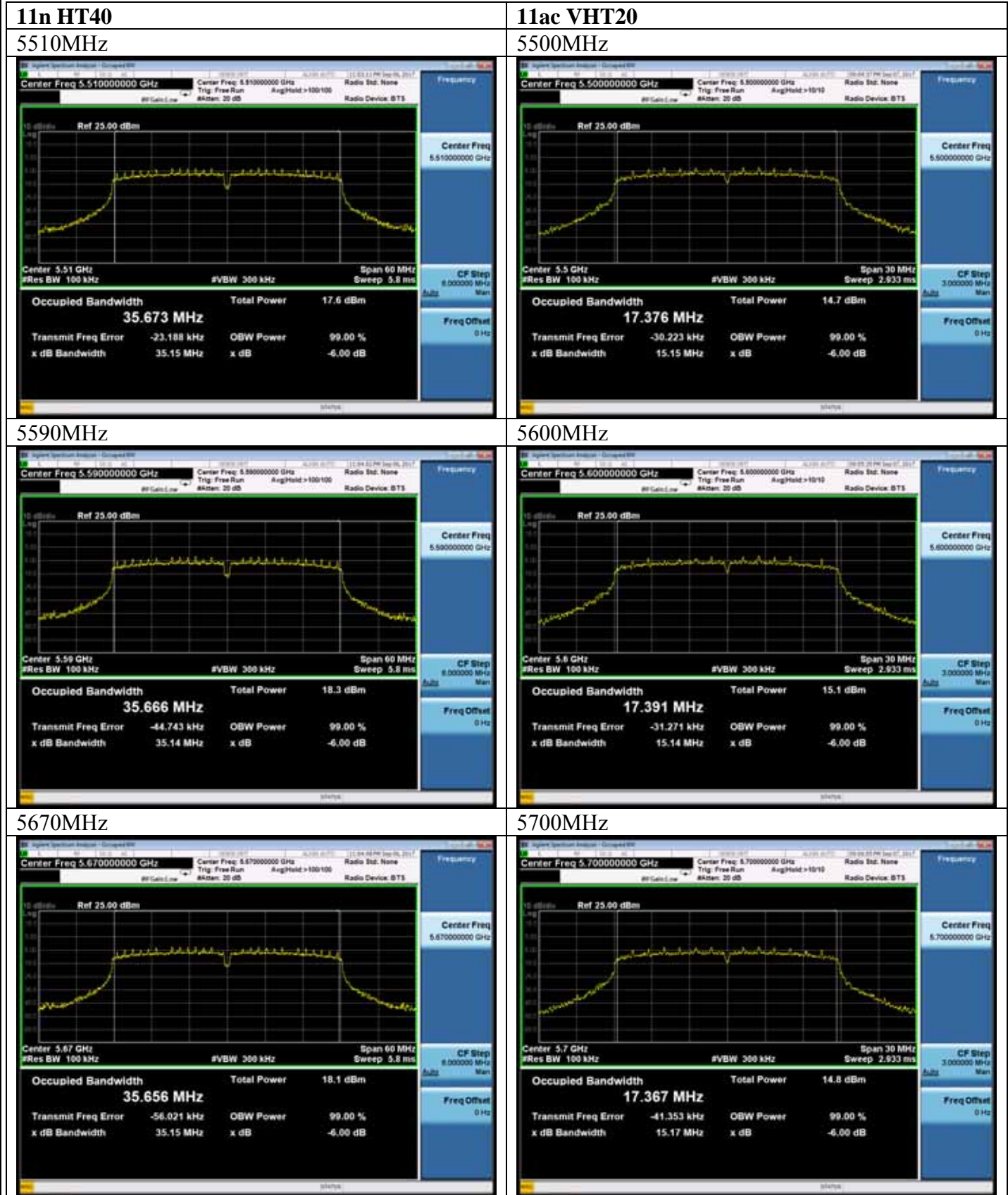


5700MHz



5700MHz

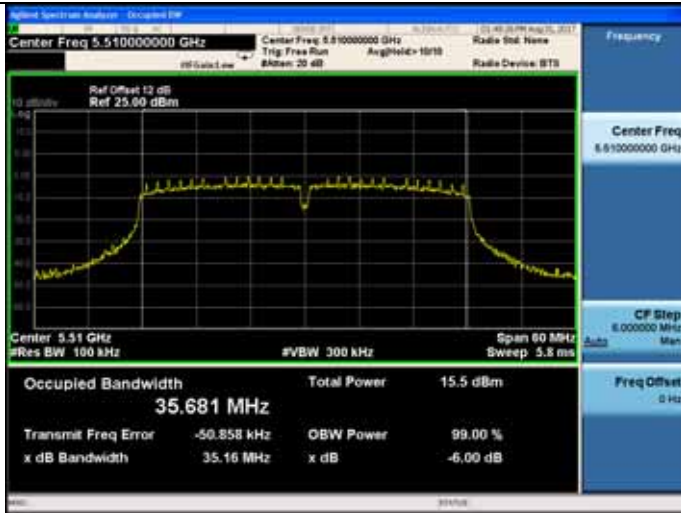




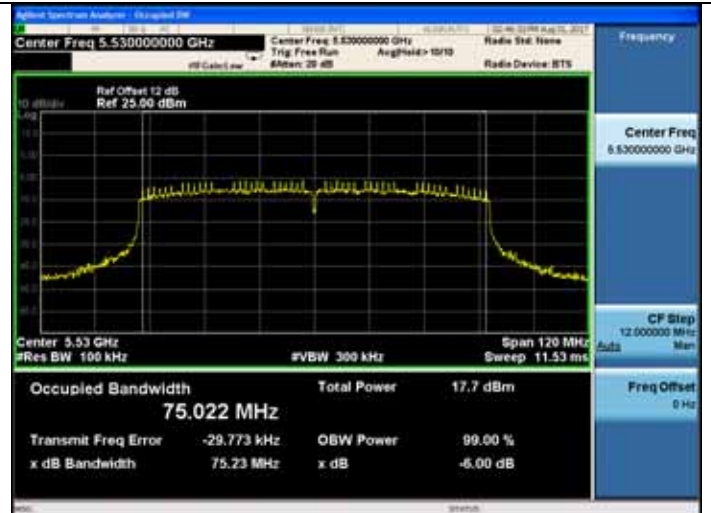
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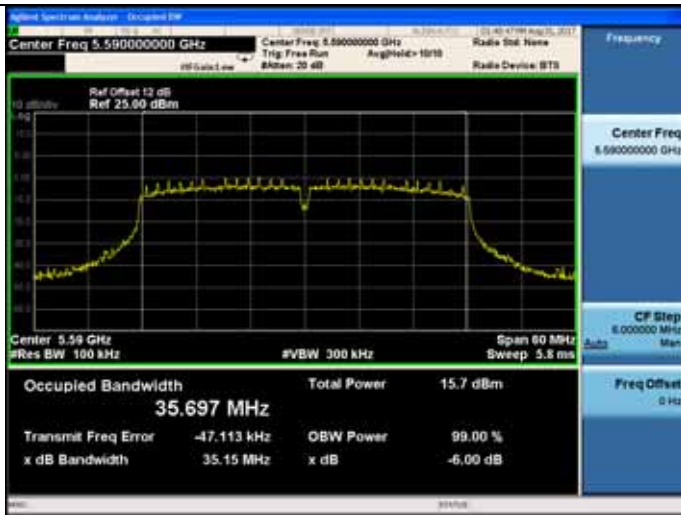
11ac VHT40
5510MHz



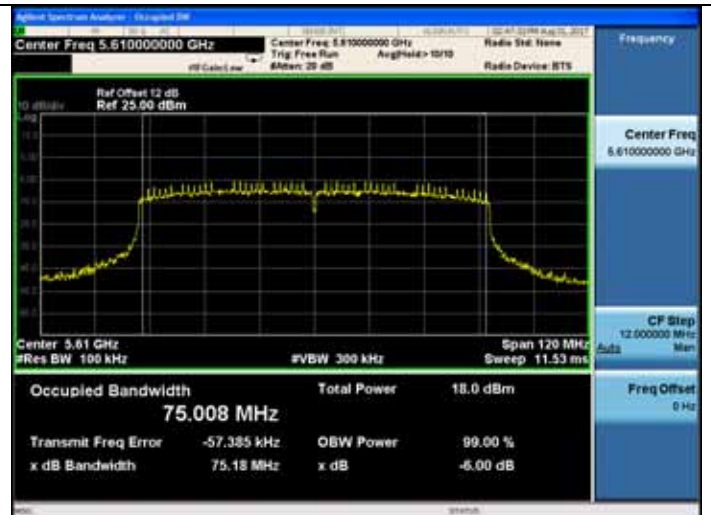
11ac VHT80
5530MHz



5590MHz



5610MHz



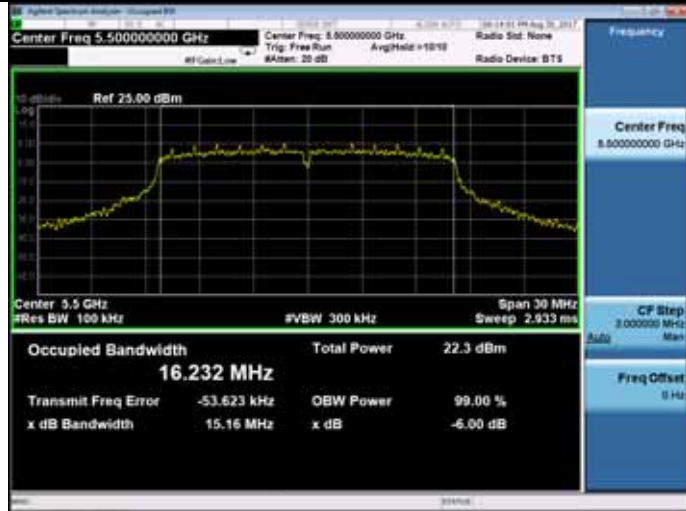
5670MHz



**5500-5700MHz Band:
6dB & 99% bandwidth
ANT 1**

11a

5500MHz



11n HT20

5500MHz



5600MHz



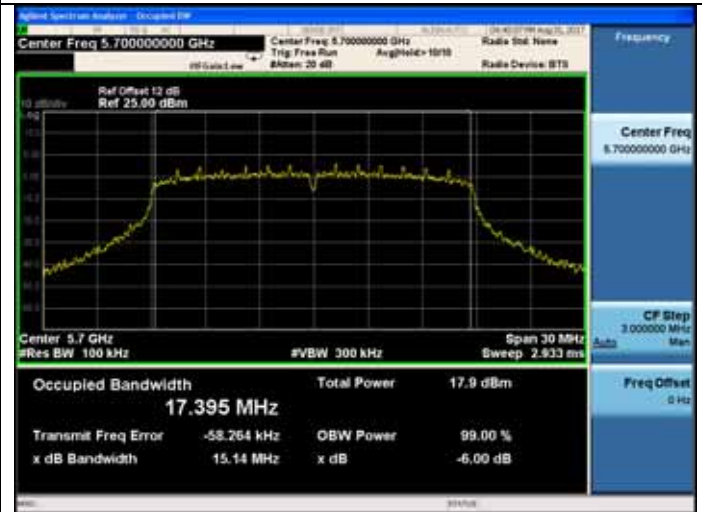
5600MHz

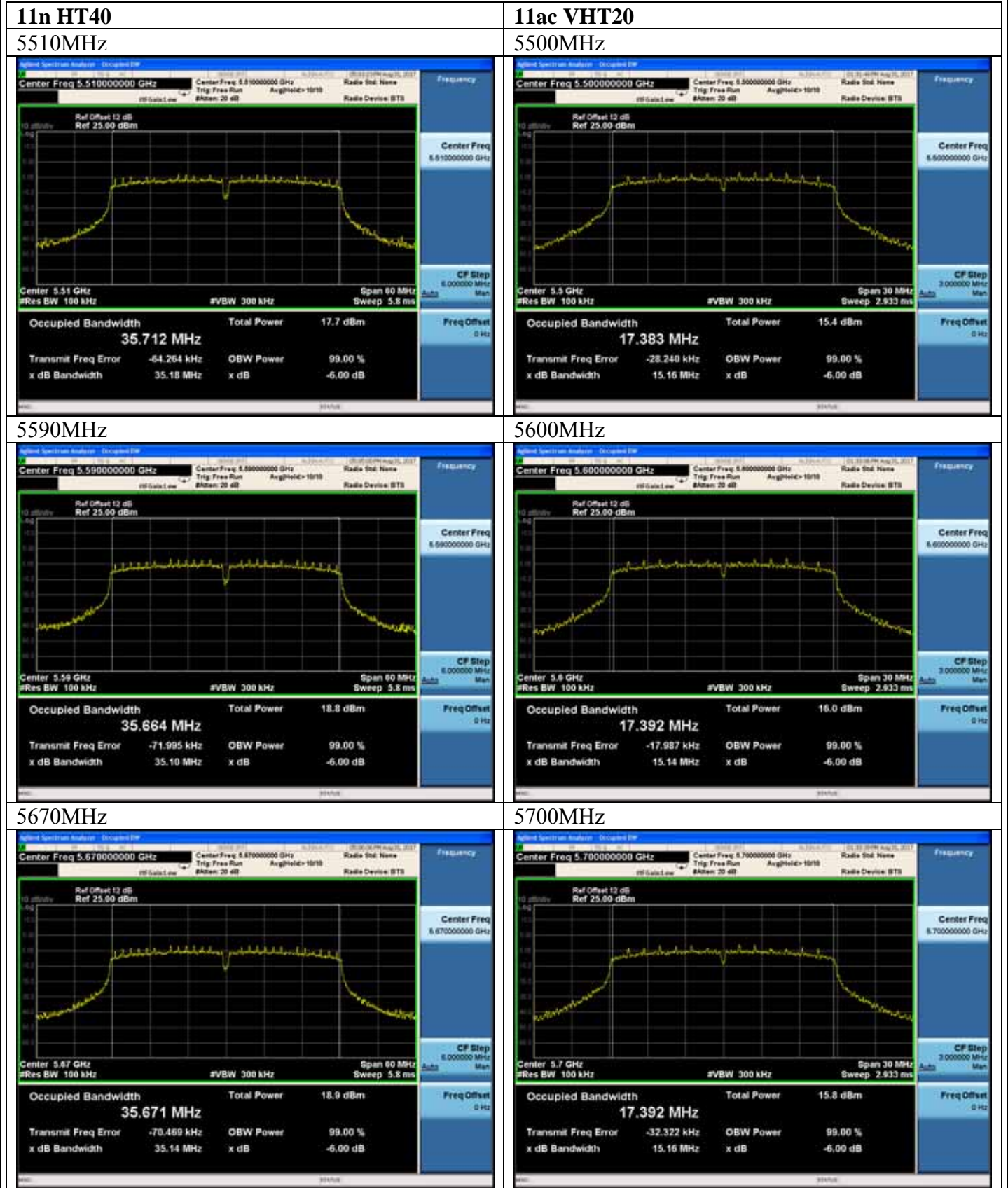


5700MHz



5700MHz

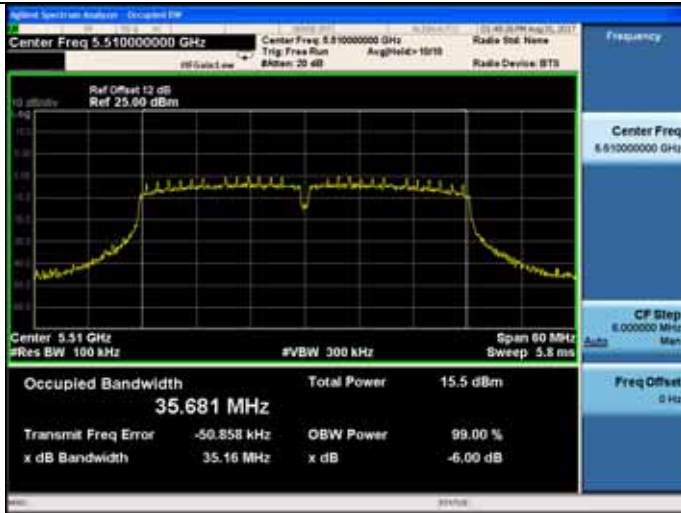




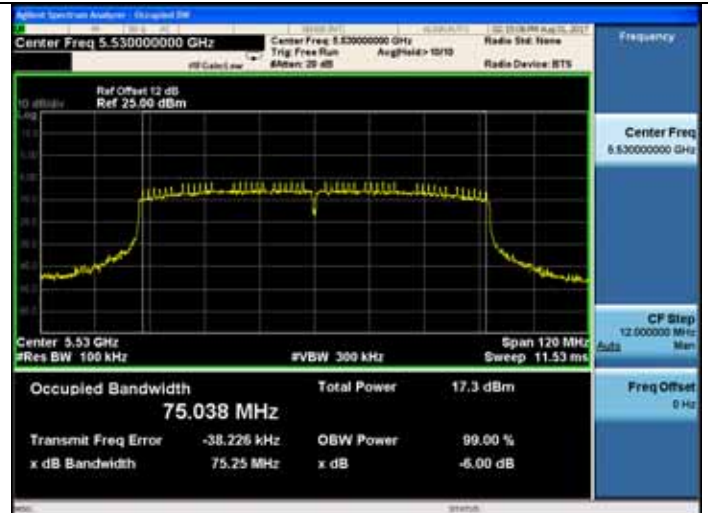
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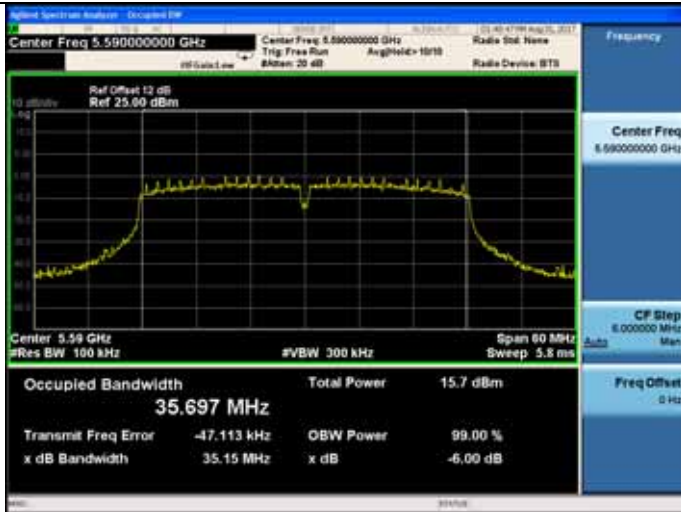
11ac VHT40
5510MHz



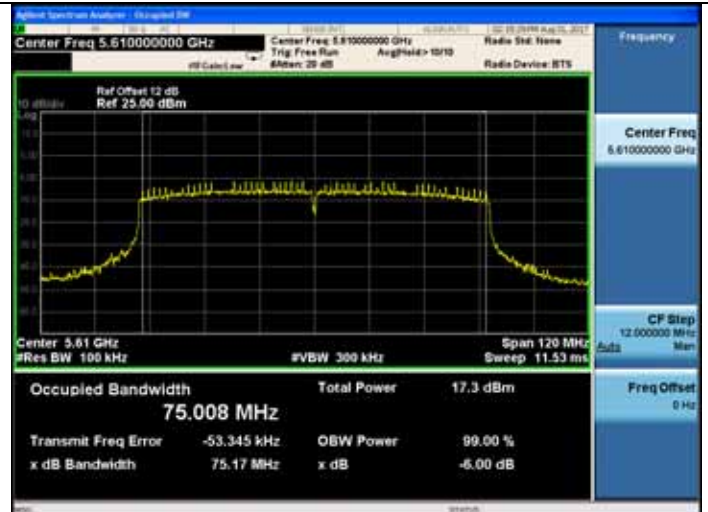
11ac VHT80
5530MHz



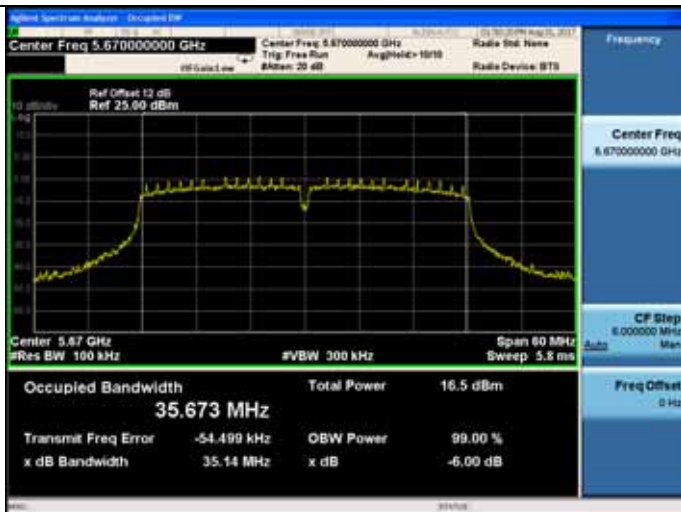
5590MHz



5610MHz



5670MHz



5500-5700MHz Band:

26dB bandwidth

ANT 0

11a

5500MHz



11n HT20

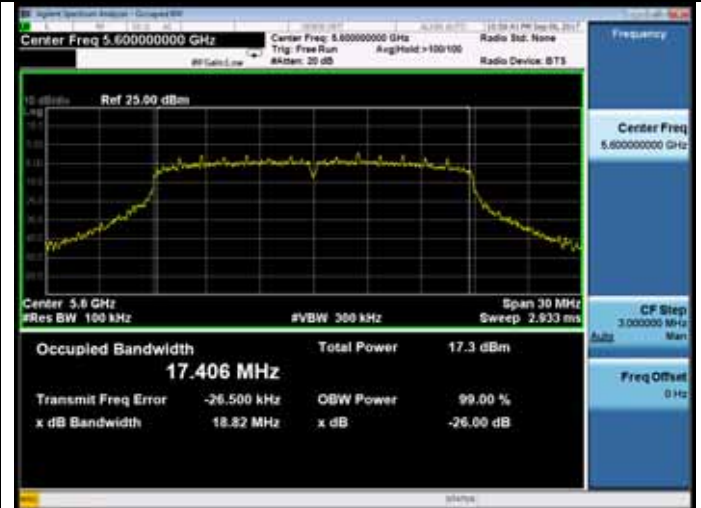
5500MHz



5600MHz



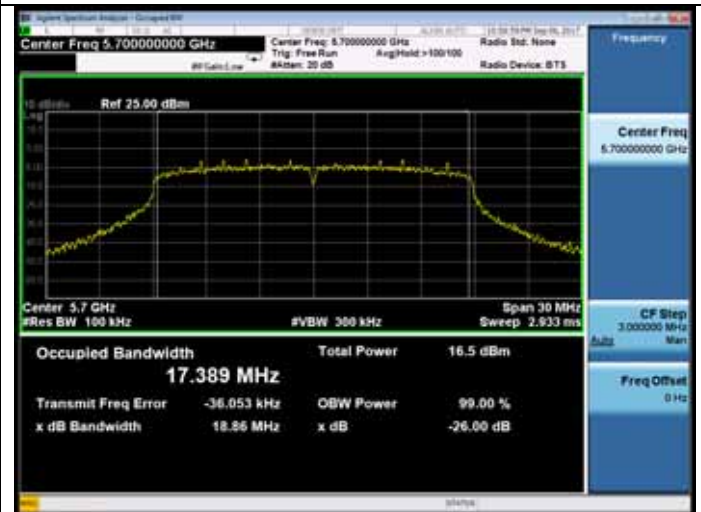
5600MHz

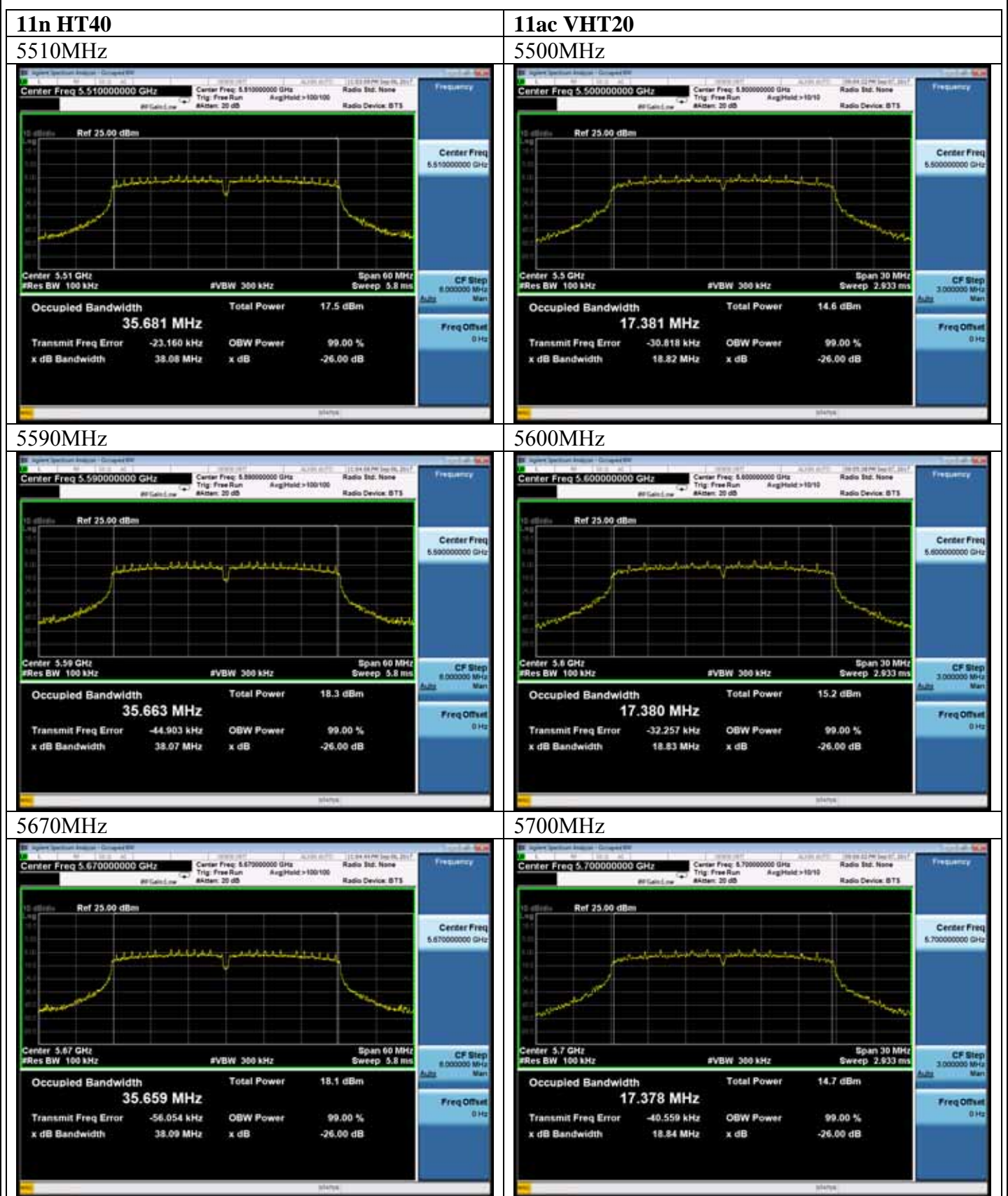


5700MHz



5700MHz





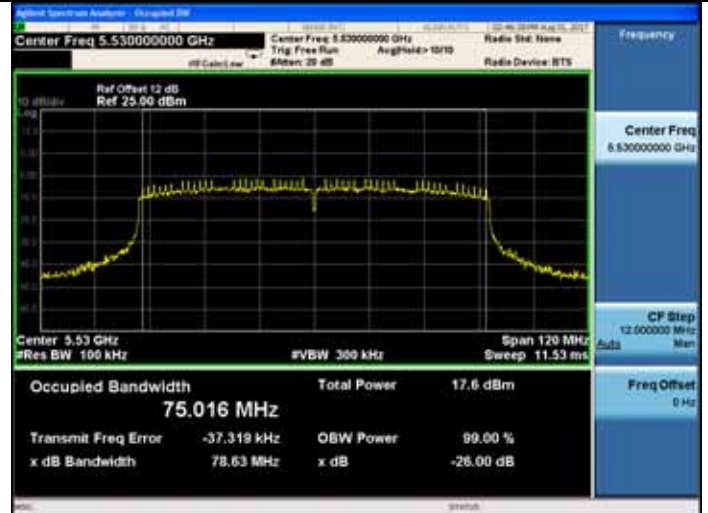
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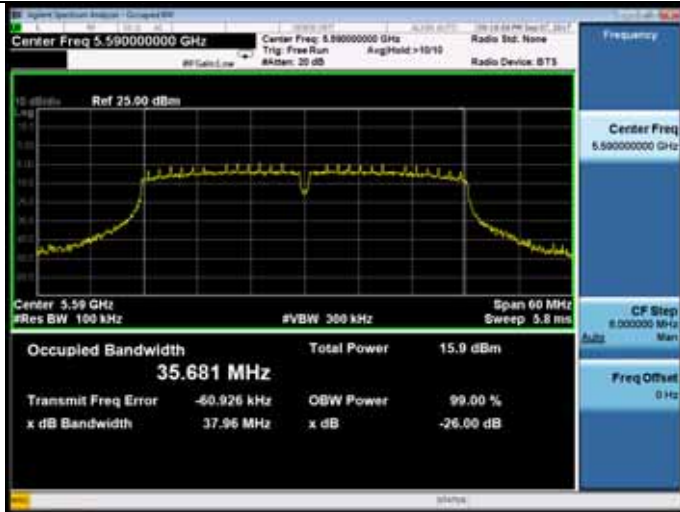
11ac VHT40
5510MHz



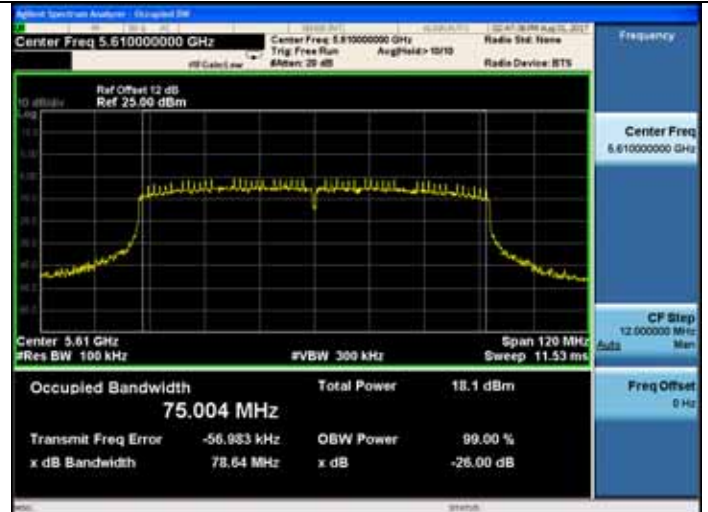
11ac VHT80
5530MHz



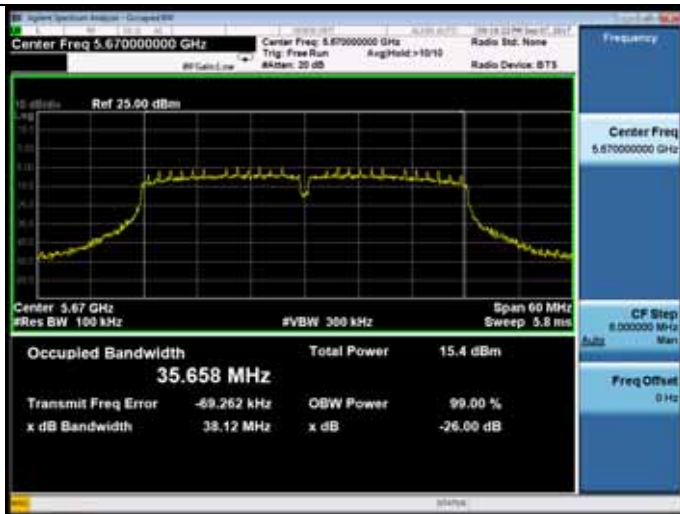
5590MHz



5610MHz



5670MHz



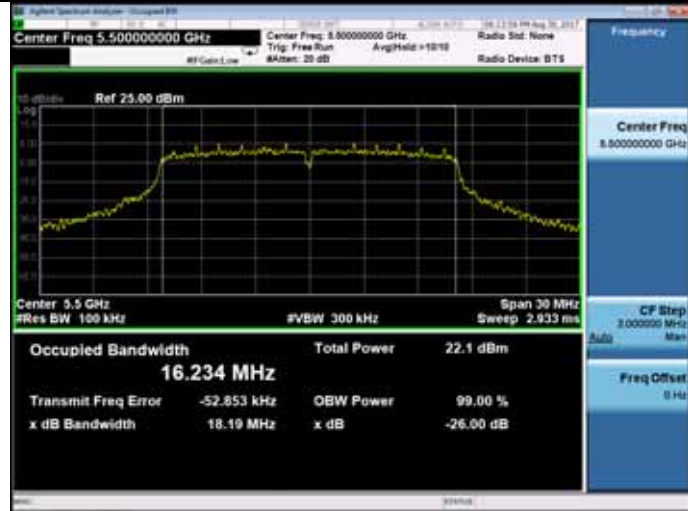
5500-5700MHz Band:

26dB bandwidth

ANT 1

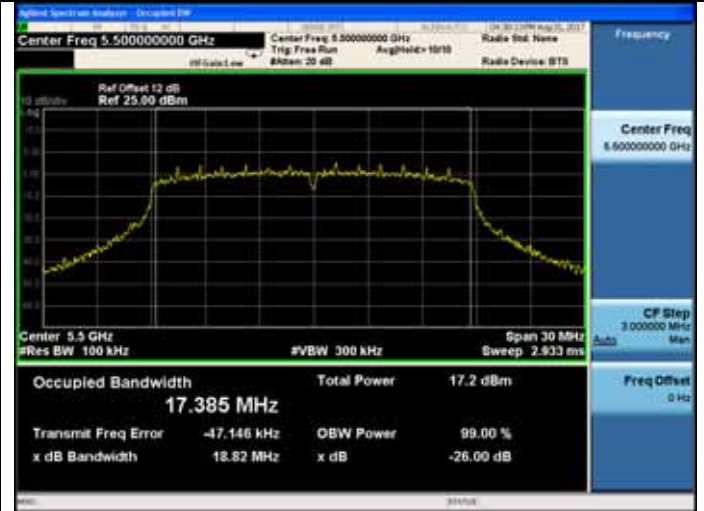
11a

5500MHz

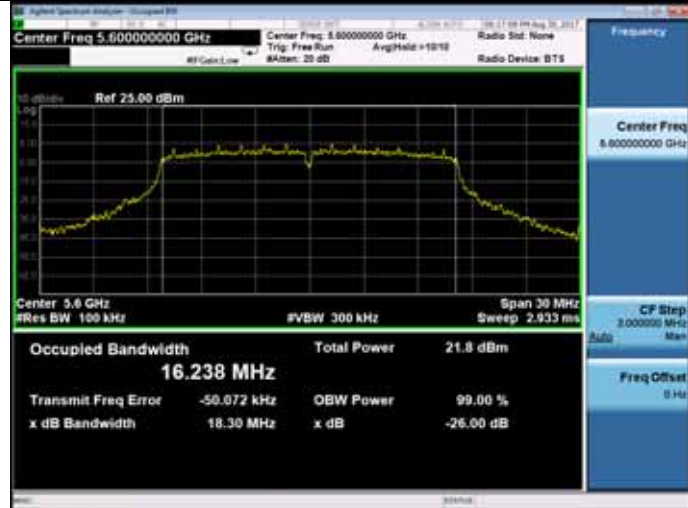


11n HT20

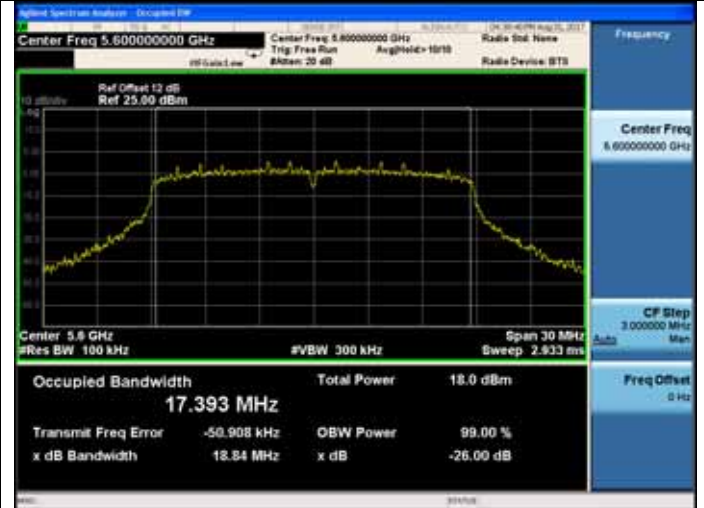
5500MHz



5600MHz



5600MHz



5700MHz

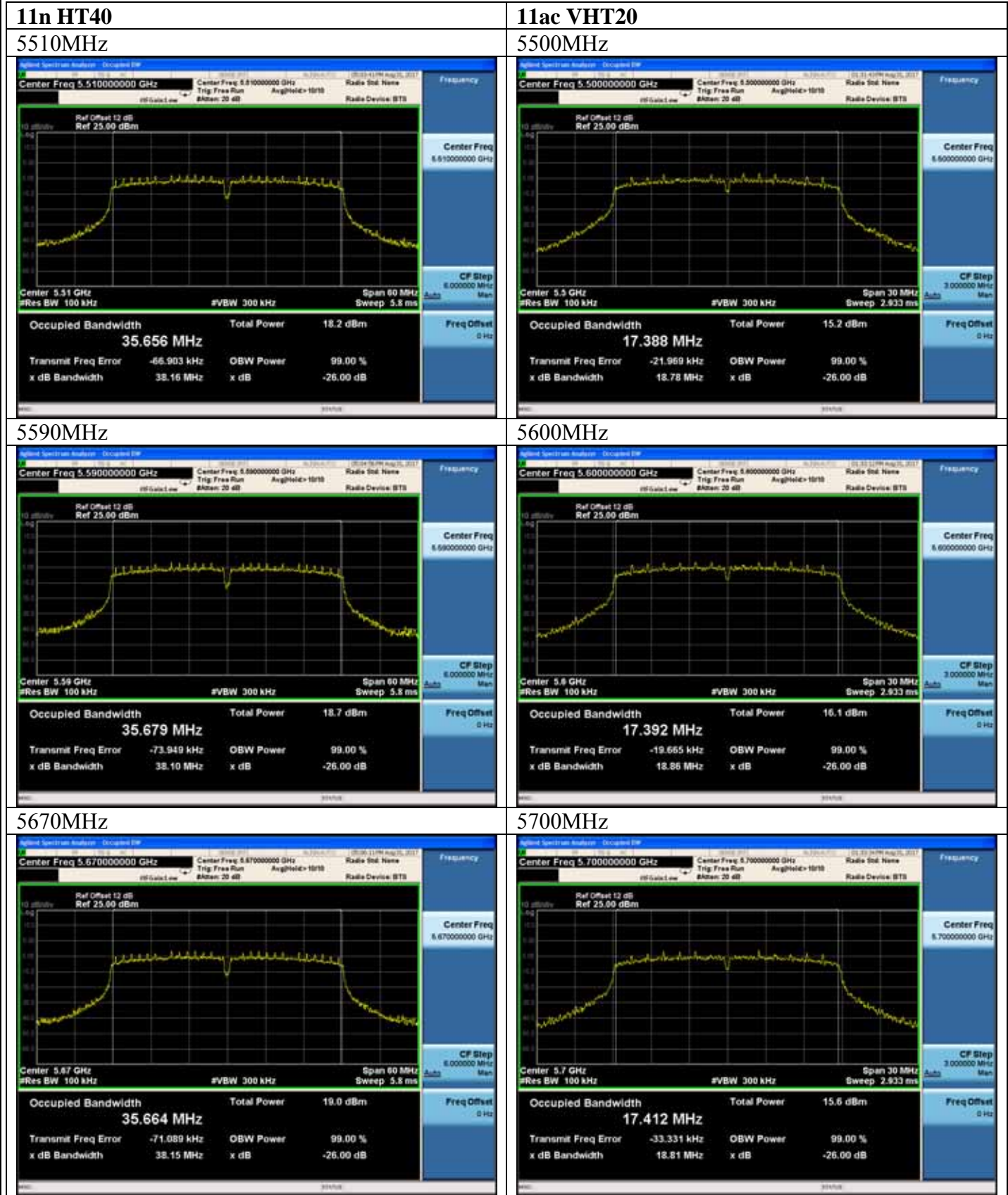


5700MHz



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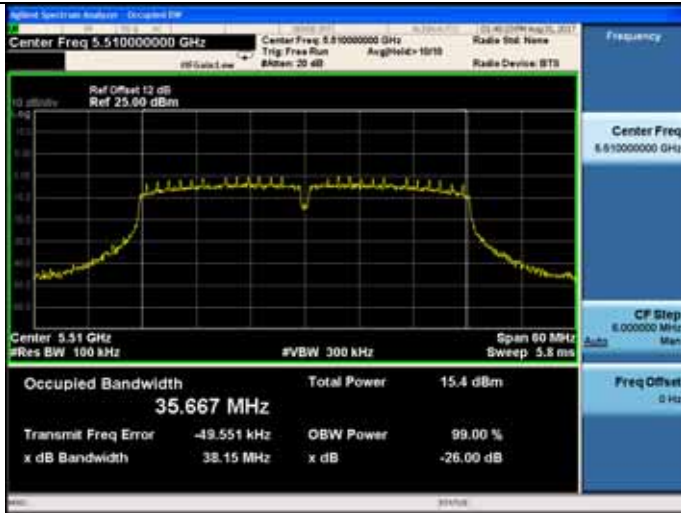
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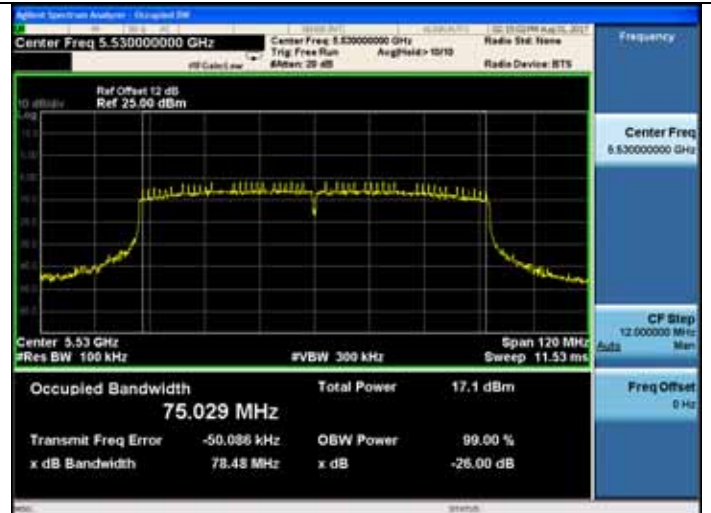
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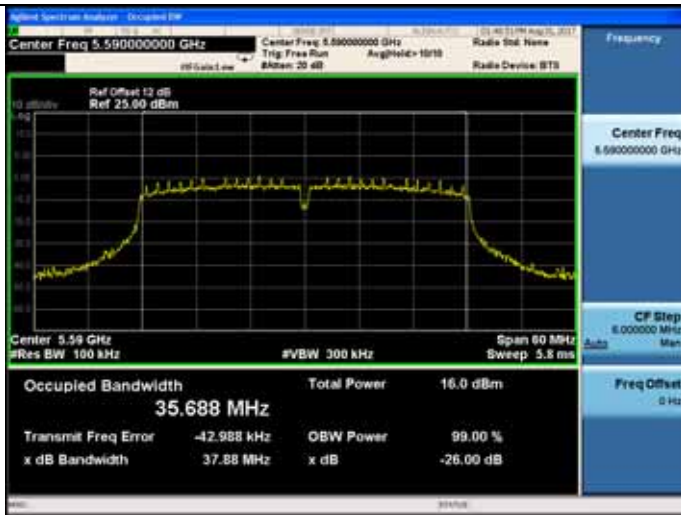
11ac VHT40
5510MHz



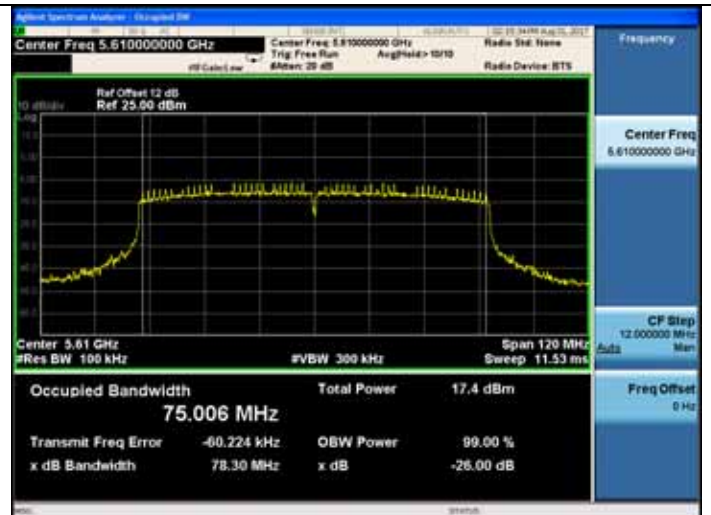
11ac VHT80
5530MHz



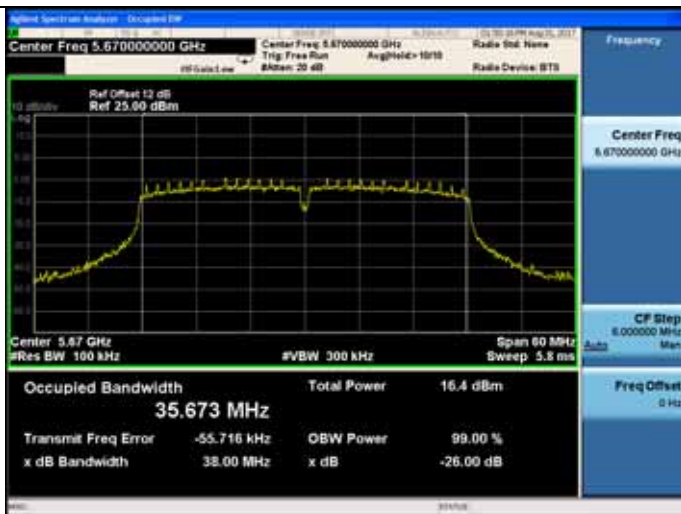
5590MHz



5610MHz



5670MHz



5745-5825MHz Band:

6dB & 99% bandwidth

ANT 0

11a

5745MHz



11n HT20

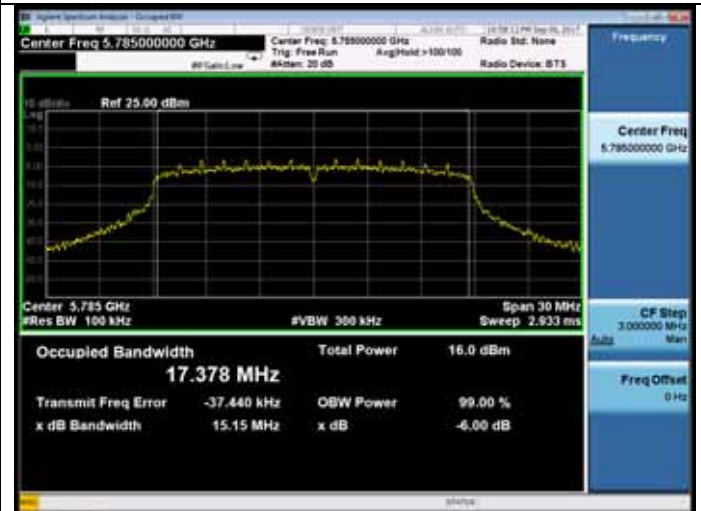
5745MHz



5785MHz



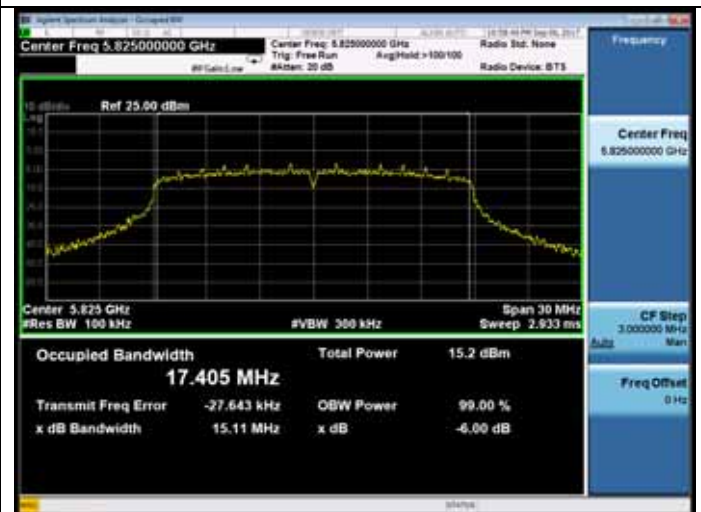
5785MHz



5825MHz

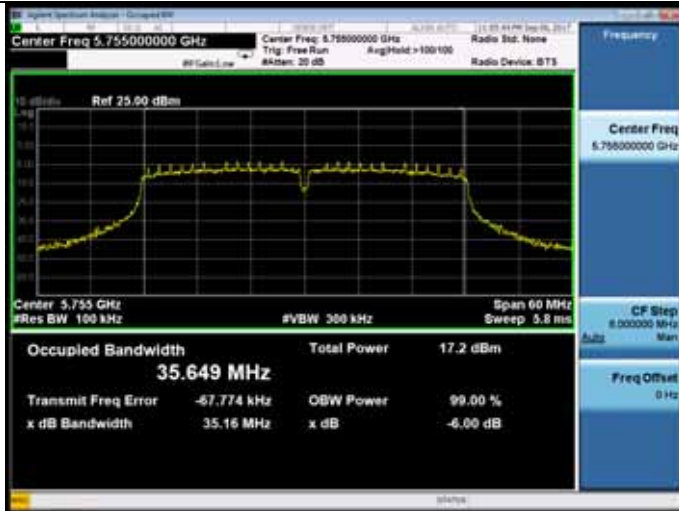


5825MHz

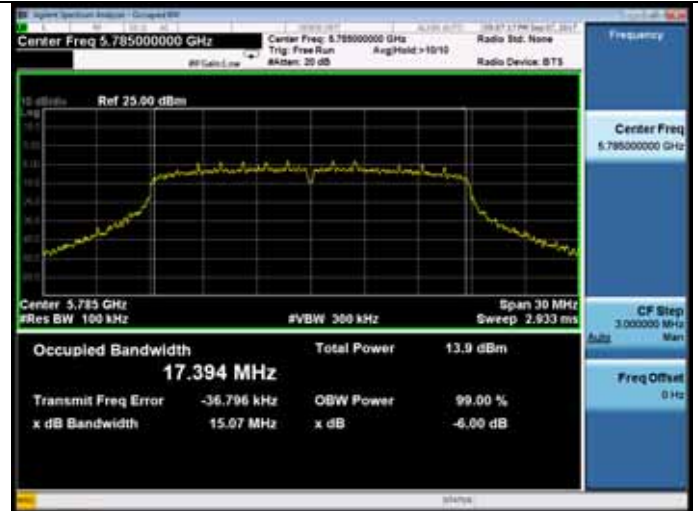


11n HT40

5755MHz



5785MHz



5795MHz

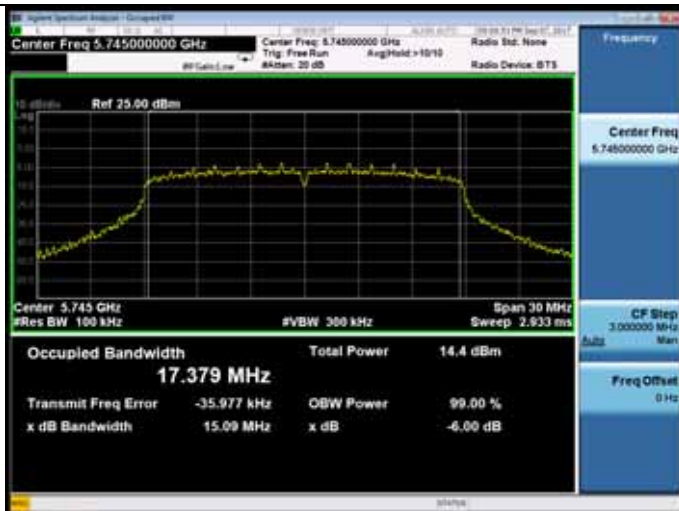


5825MHz



11ac VHT20

5745MHz

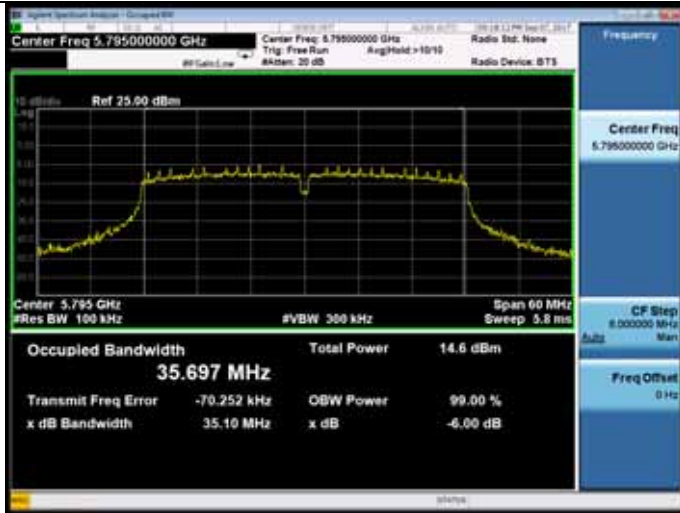


11ac VHT40

5755MHz

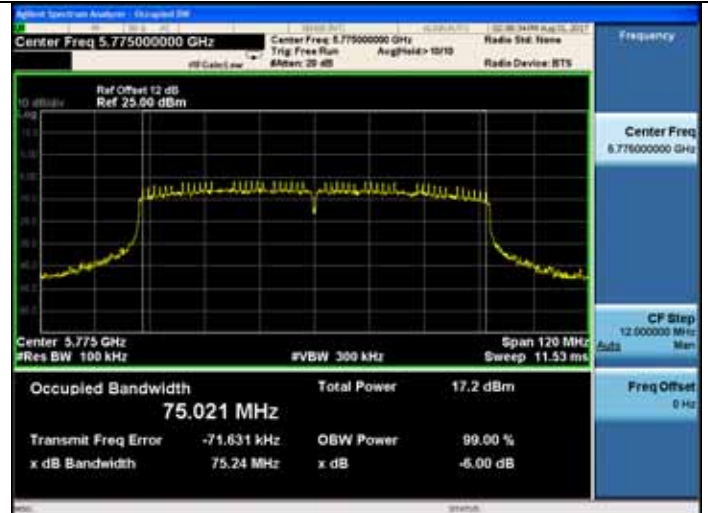


5795MHz



11ac VHT80

5775MHz



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**5745-5825MHz Band:
6dB & 99% bandwidth
ANT 1**

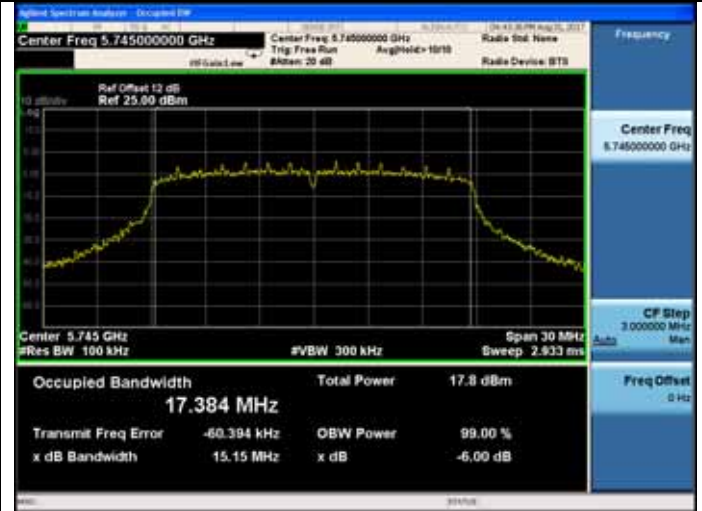
11a

5745MHz



11n HT20

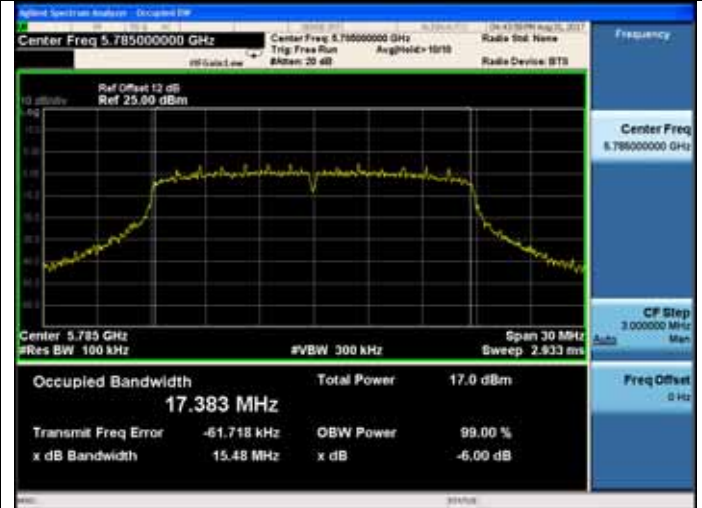
5745MHz



5785MHz



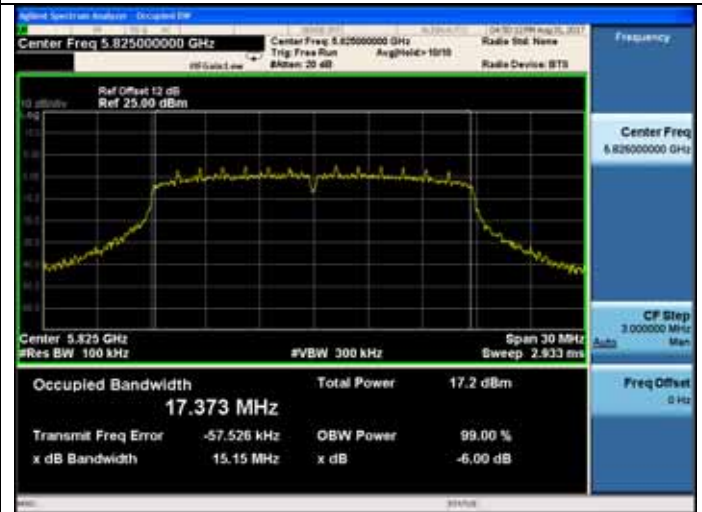
5785MHz



5825MHz



5825MHz



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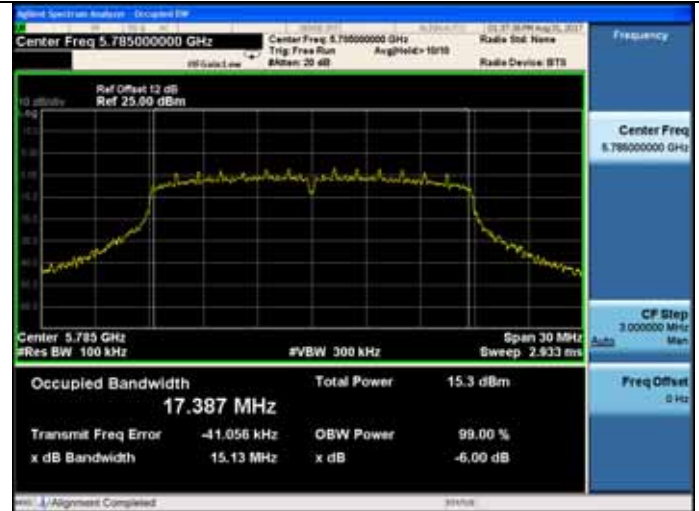
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11n HT40

5755MHz



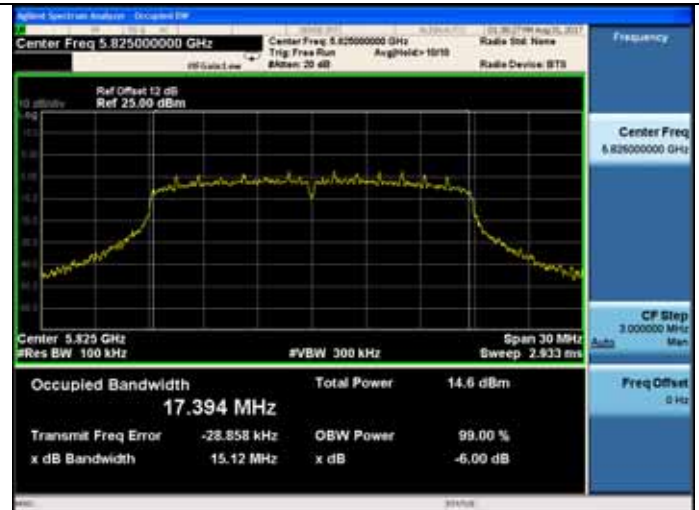
5785MHz



5795MHz

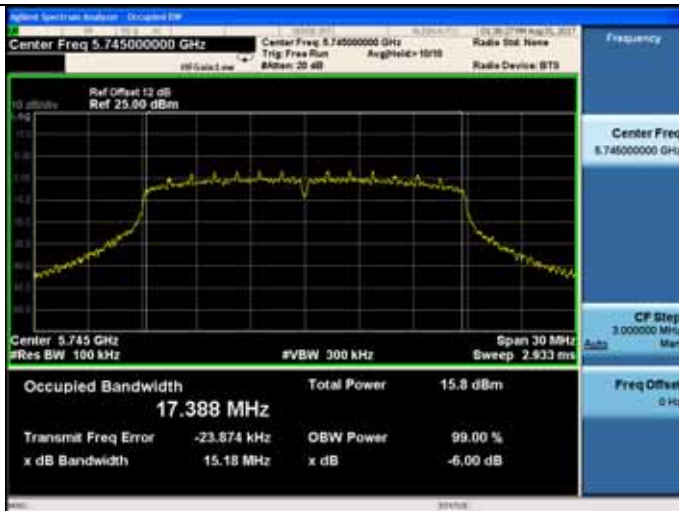


5825MHz



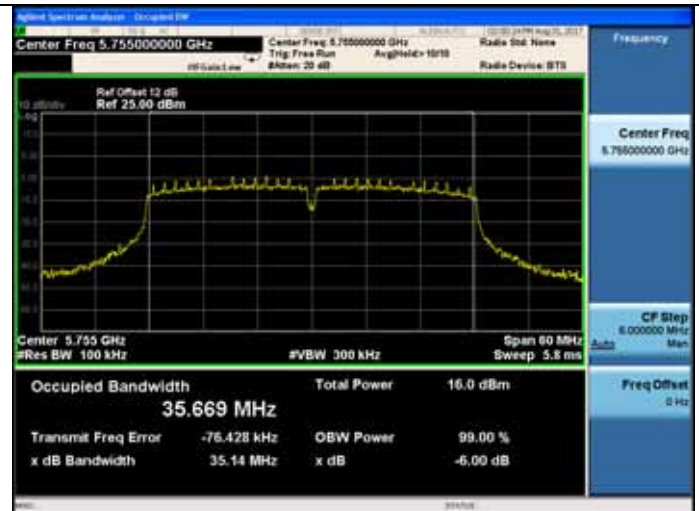
11ac VHT20

5745MHz



11ac VHT40

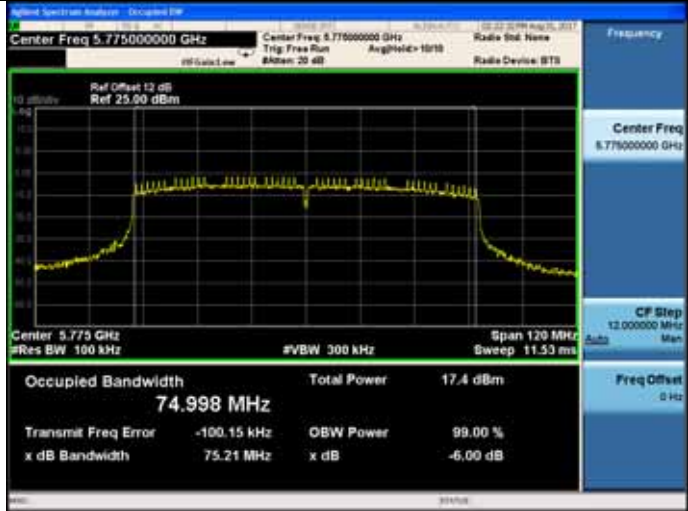
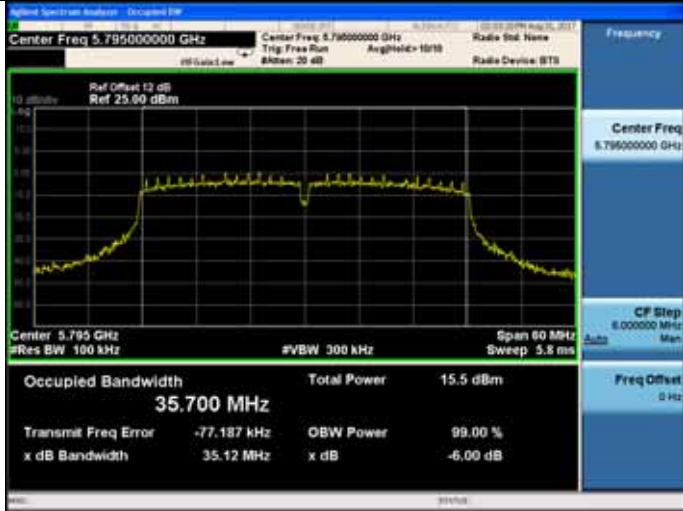
5755MHz



11ac VHT80

5795MHz

5775MHz



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5745-5825MHz Band:

26dB bandwidth

ANT 0

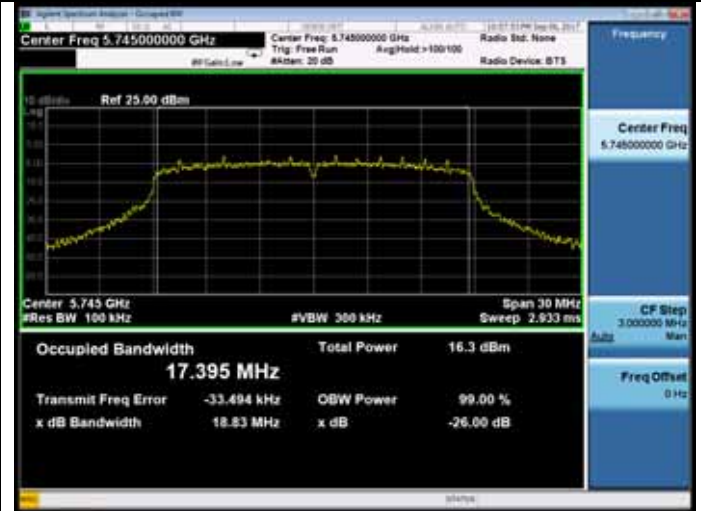
11a

5745MHz



11n HT20

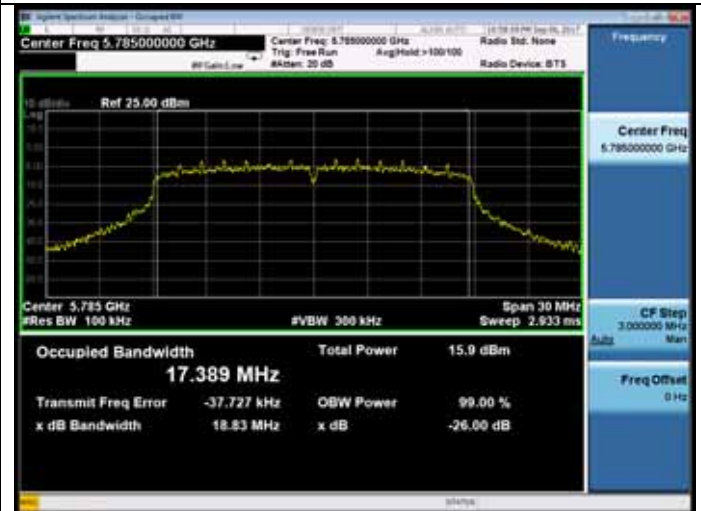
5745MHz



5785MHz



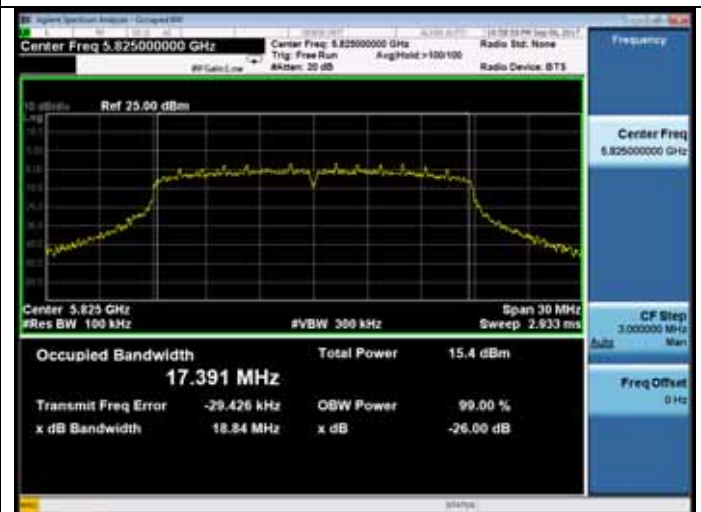
5785MHz



5825MHz

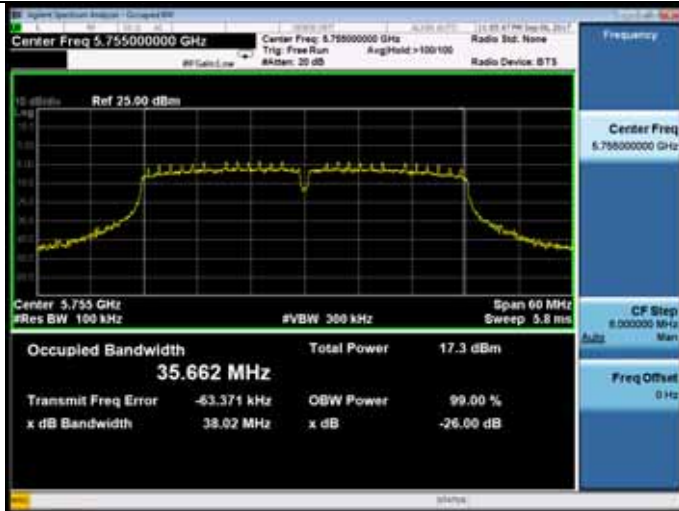


5825MHz



11n HT40

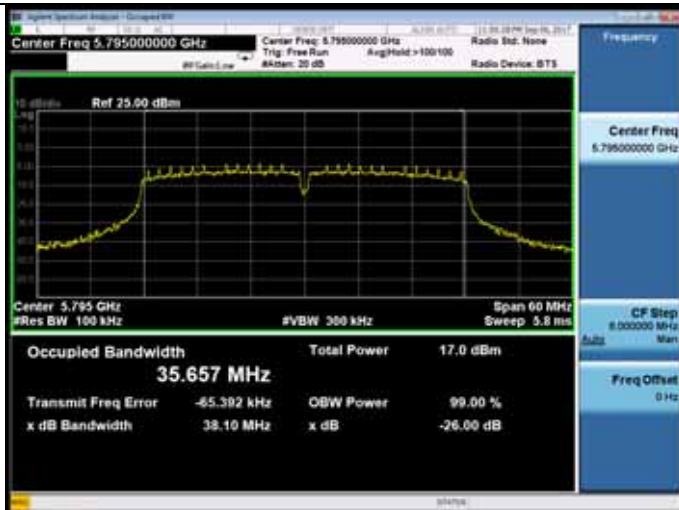
5755MHz



5785MHz



5795MHz

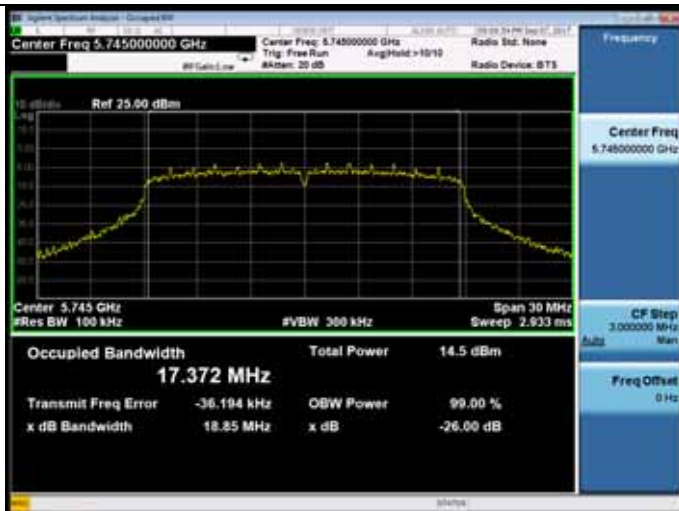


5825MHz



11ac VHT20

5745MHz



11ac VHT40

5755MHz

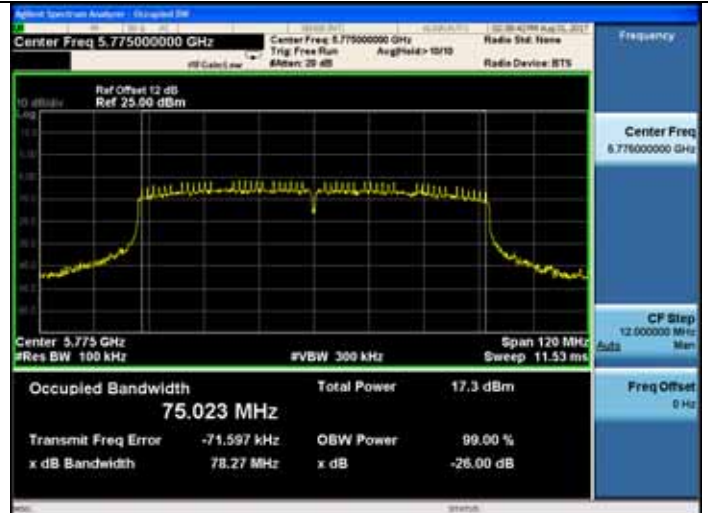


5795MHz



11ac VHT80

5775MHz



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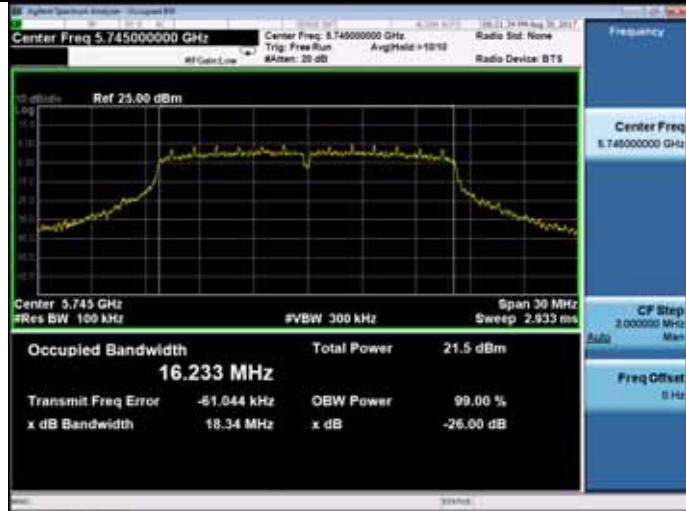
5745-5825MHz Band:

26dB bandwidth

ANT 1

11a

5745MHz



11n HT20

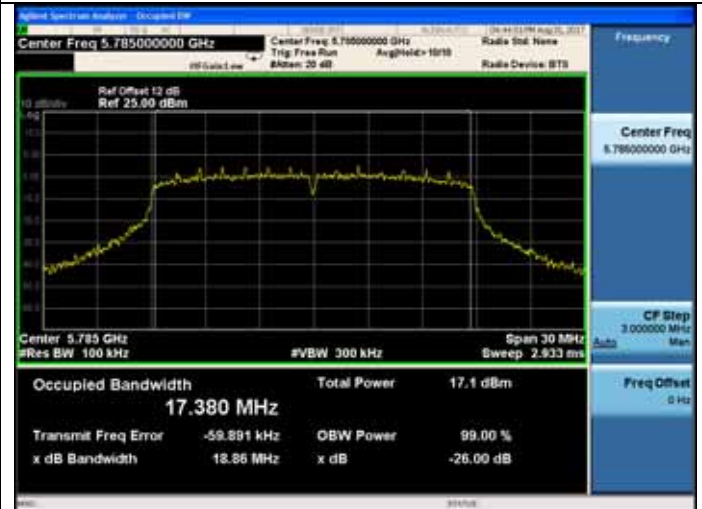
5745MHz



5785MHz



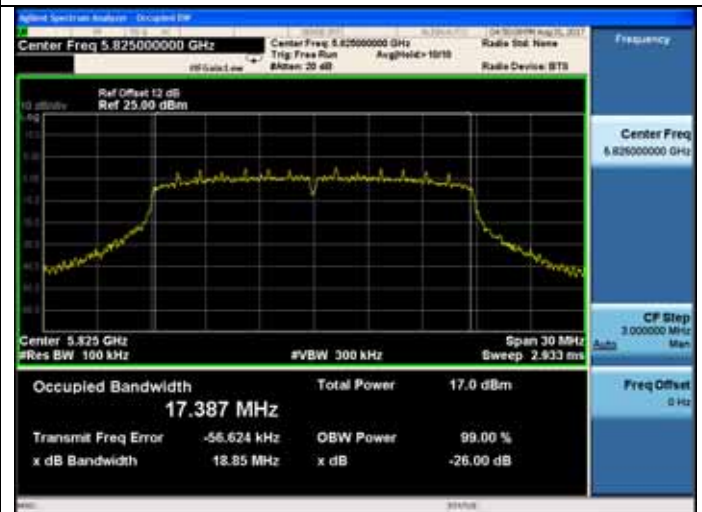
5785MHz



5825MHz



5825MHz

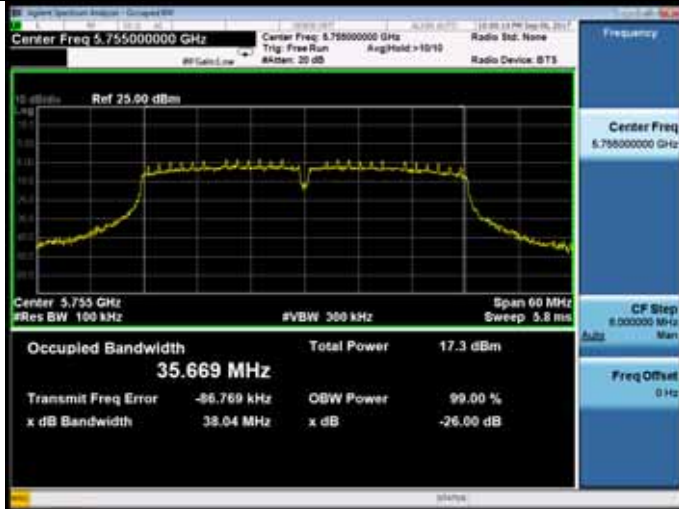


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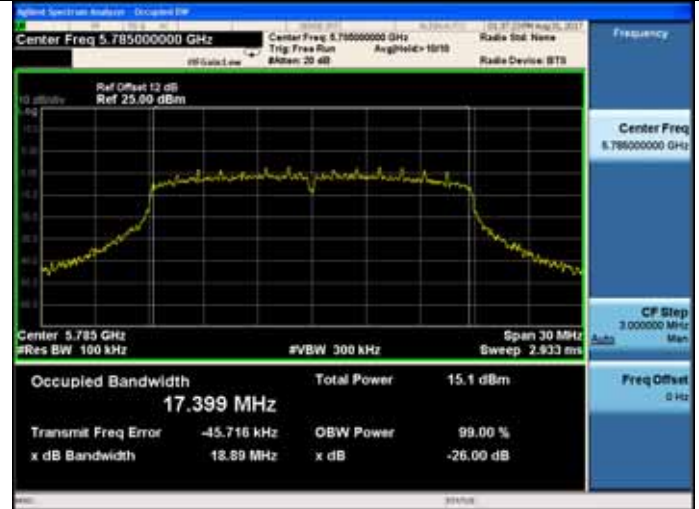
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11n HT40

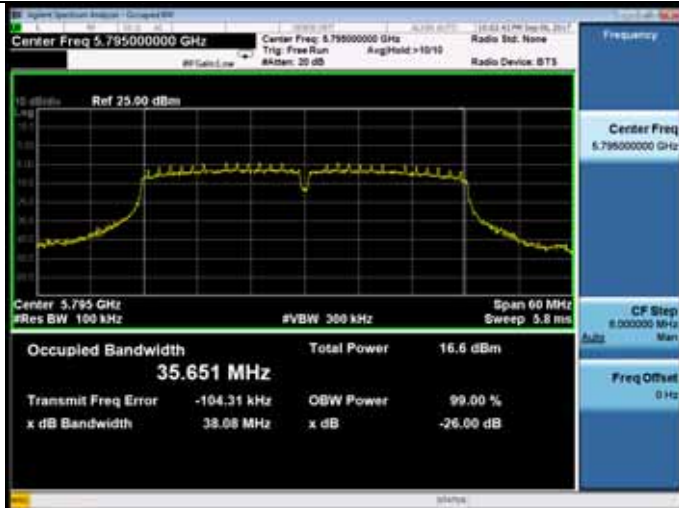
5755MHz



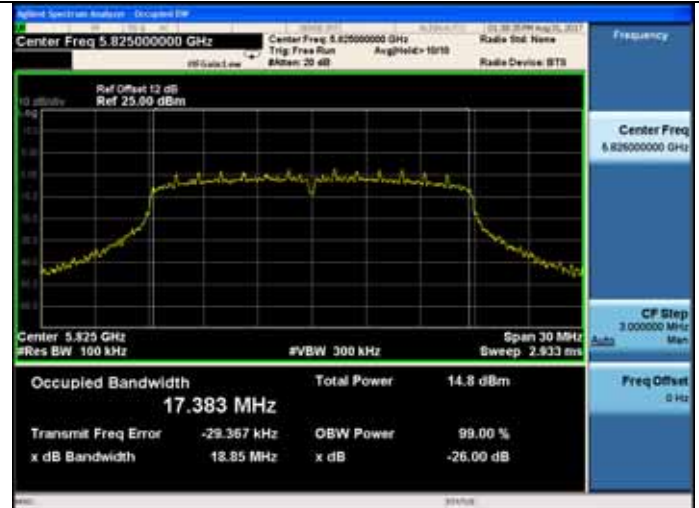
5785MHz



5795MHz

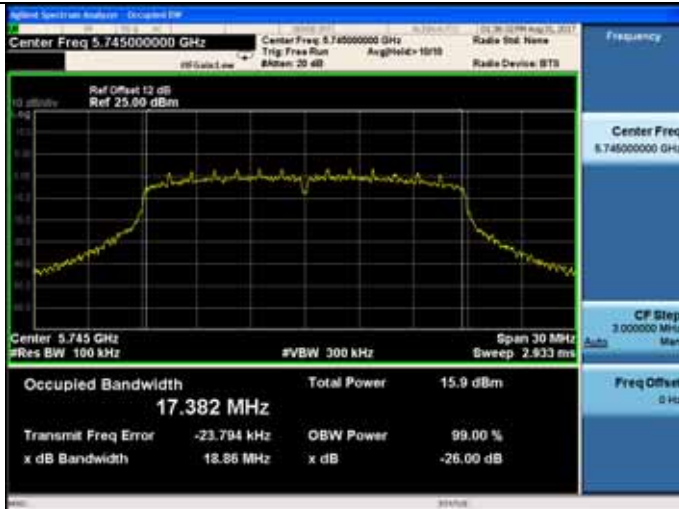


5825MHz



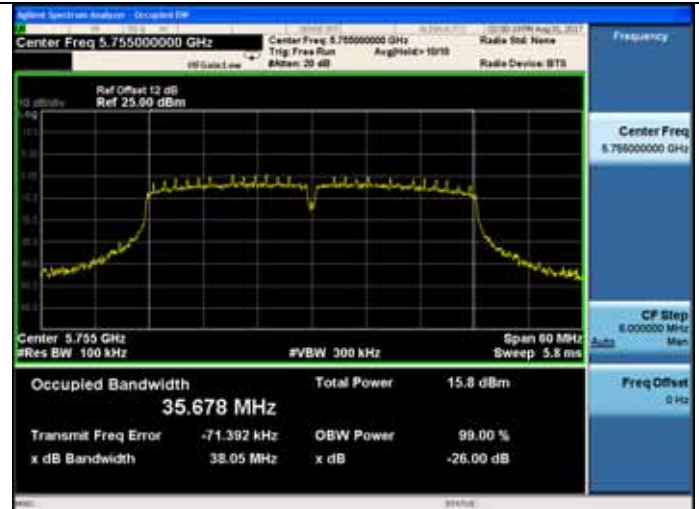
11ac VHT20

5745MHz



11ac VHT40

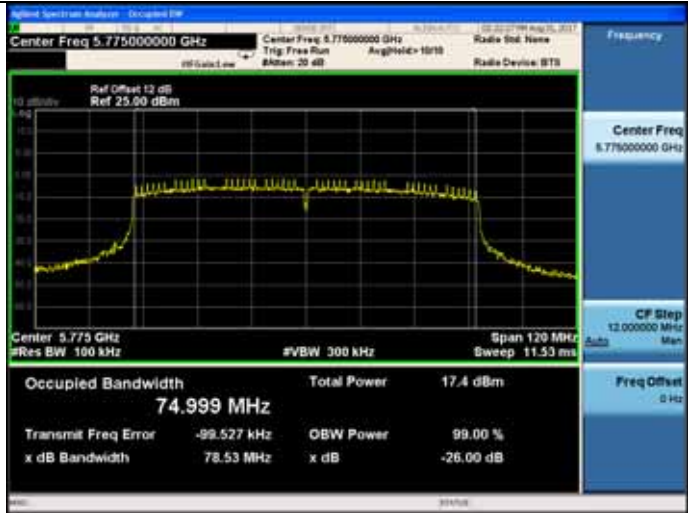
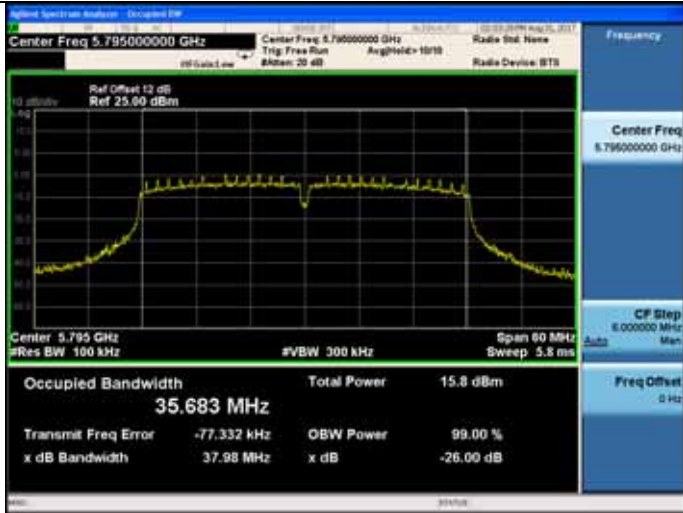
5755MHz



11ac VHT80

5795MHz

5775MHz



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8. OUTPUT POWER TEST

8.1.Limit

For 15.407:

For the band 5.15–5.25 GHz.

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW (23.98dBm) provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (23.98dBm) or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W(30dBm).

For RSS-247:

For frequency band 5250-5350MHz;5470-5725MHz:

The maximum conducted output power shall not exceed 250 mW(23.98dBm) or $11 + 10 \log 10B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

For frequency band 5725MHz-5850MHz:

The maximum conducted output power shall not exceed 1 W(30dBm).

8.2. Test Procedure

1. Connected the EUT's antenna port to measure device by 20dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 and IEEE802.11ac VHT40 and 802.11ac VHT80 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor. So use the test method described in KBD789033 clause E Method SA-1
 - 1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
 - 2) Set the RBW=1MHz and VBW =3MHz
 - 3) Number of points in sweep ≥ 2 Span / RBW
 - 4) Detector = RMS
 - 5) Sweep time = auto couple
 - 6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - 7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.