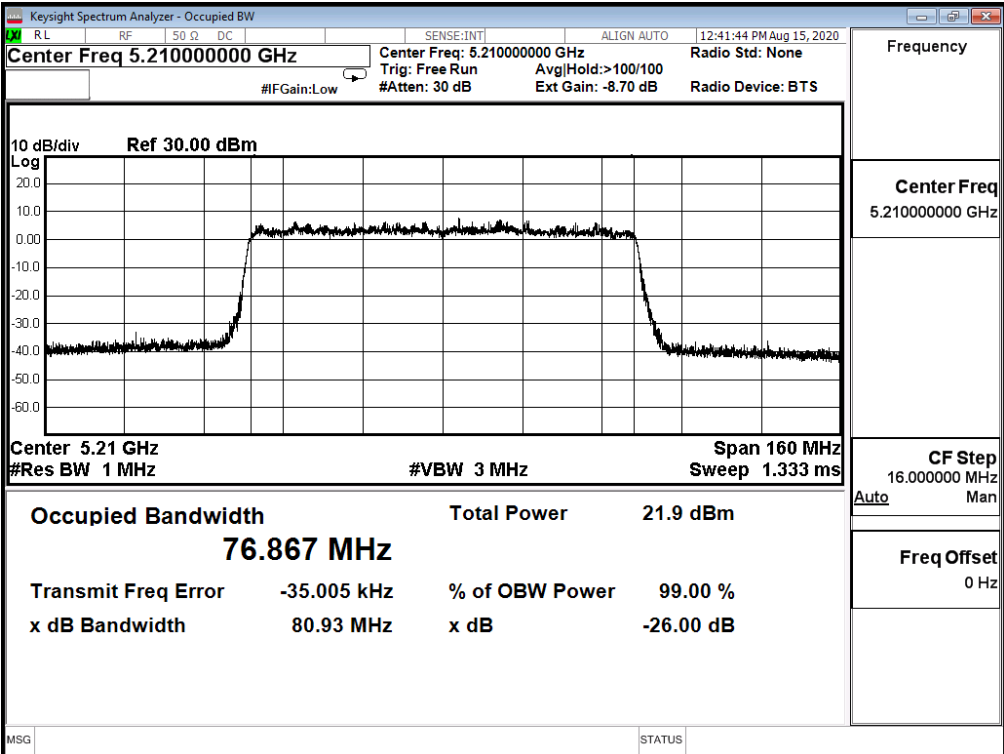
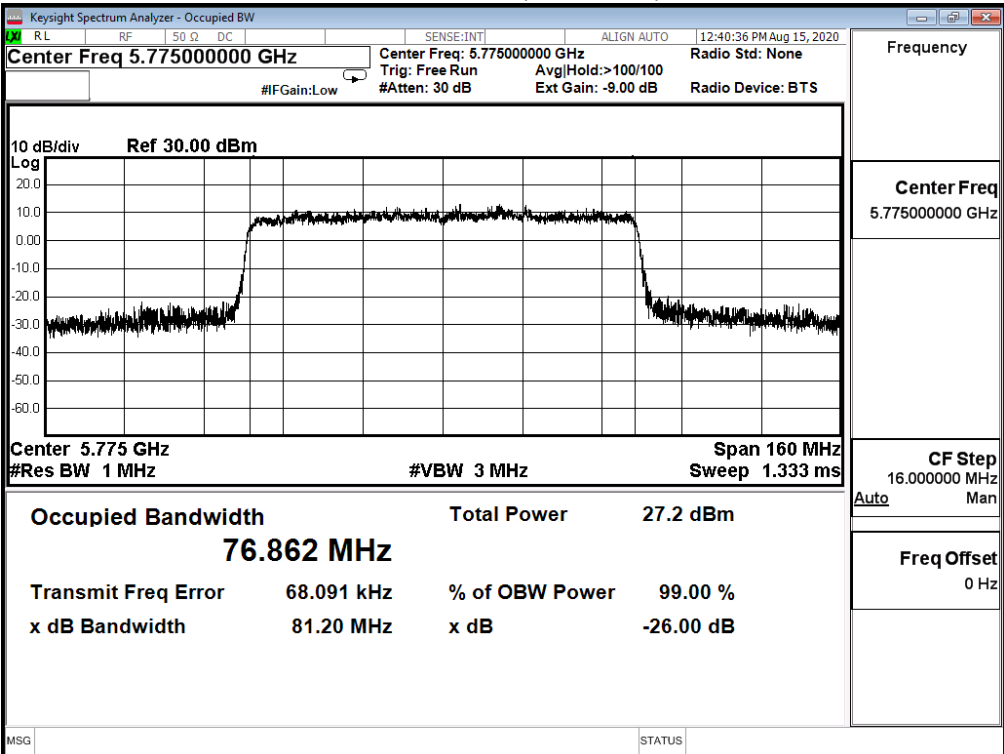


Channel 42 (5210MHz)



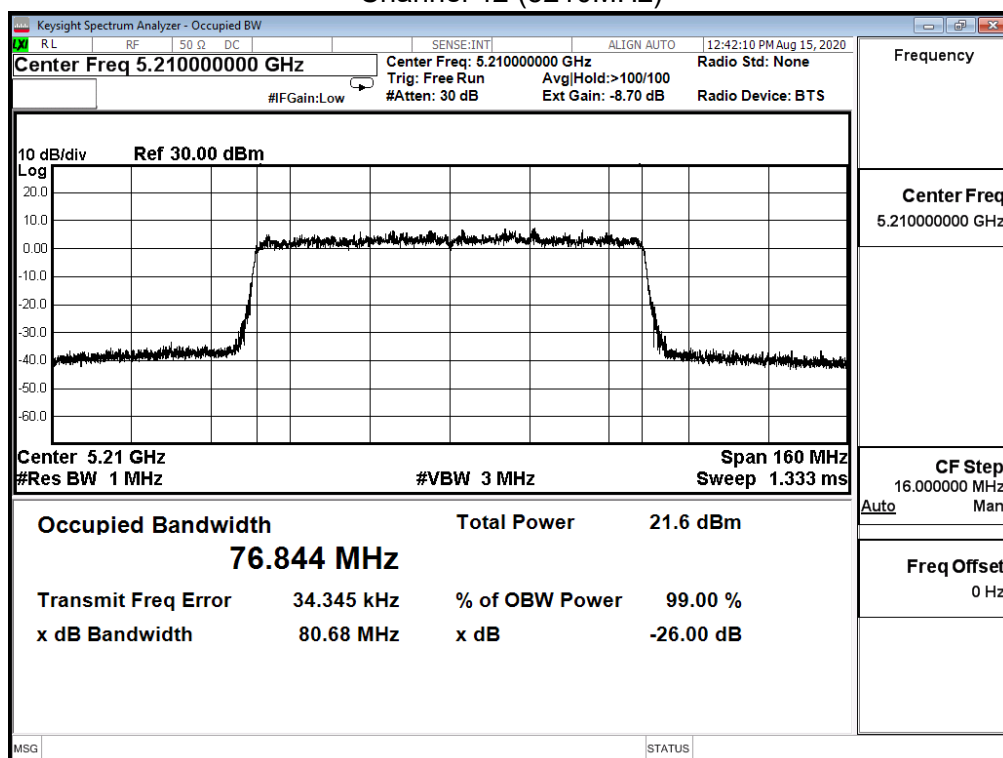
Channel 155 (5775MHz)



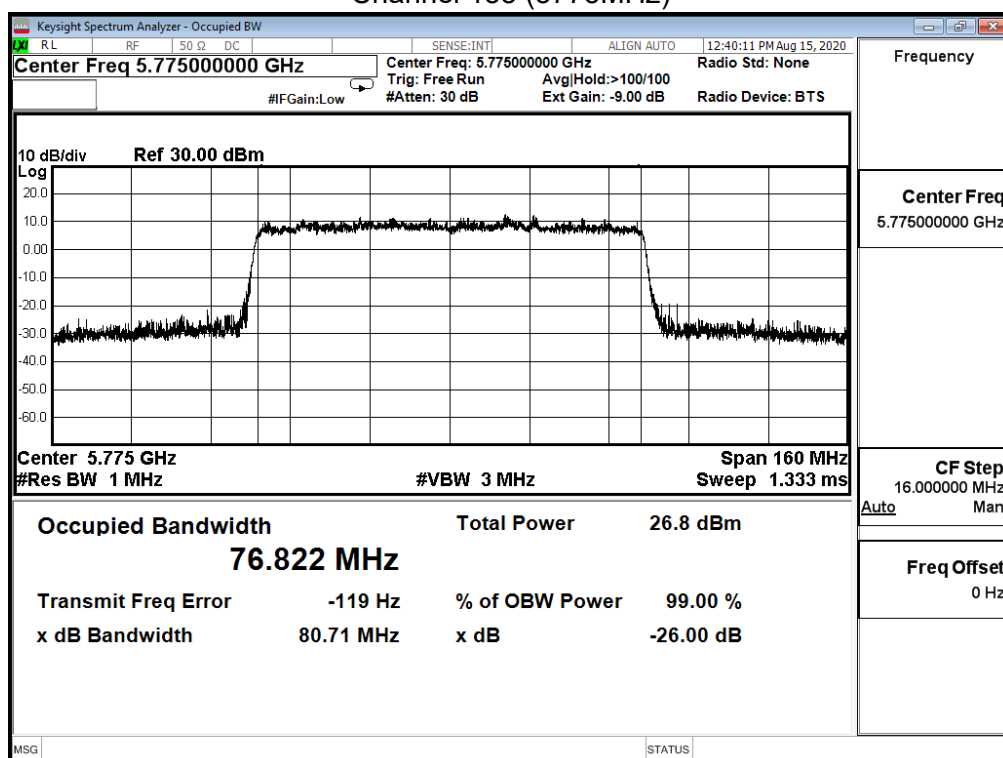
Product	FiberGateway		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 1)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	76.844	80.680	--	Pass
155	5775	76.822	N/A	--	Pass

Channel 42 (5210MHz)



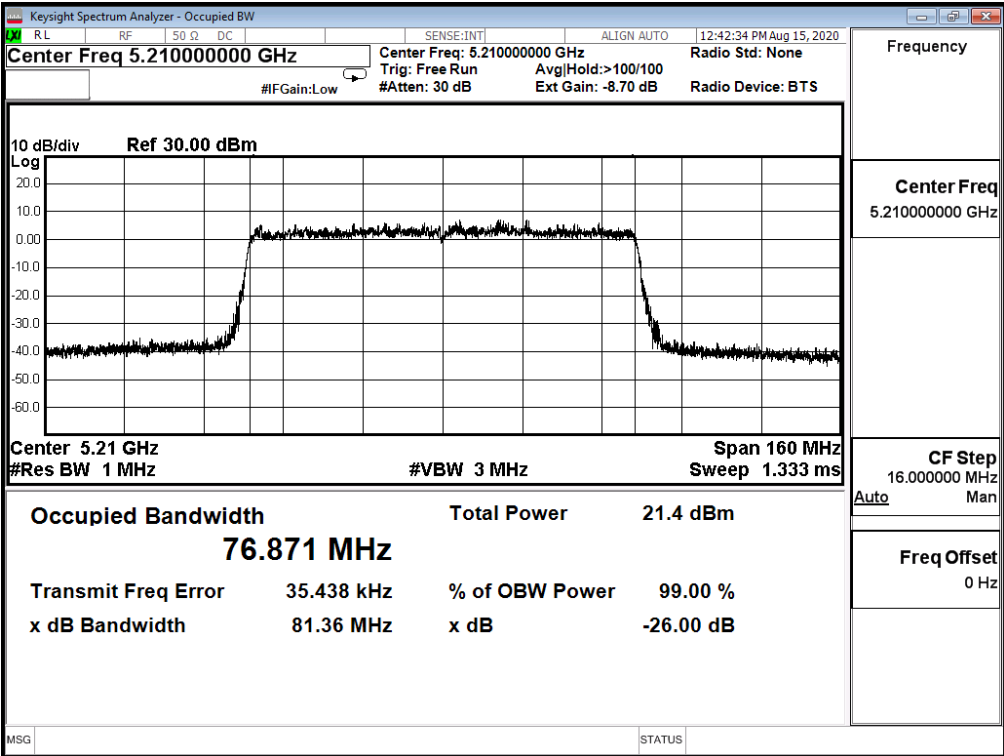
Channel 155 (5775MHz)



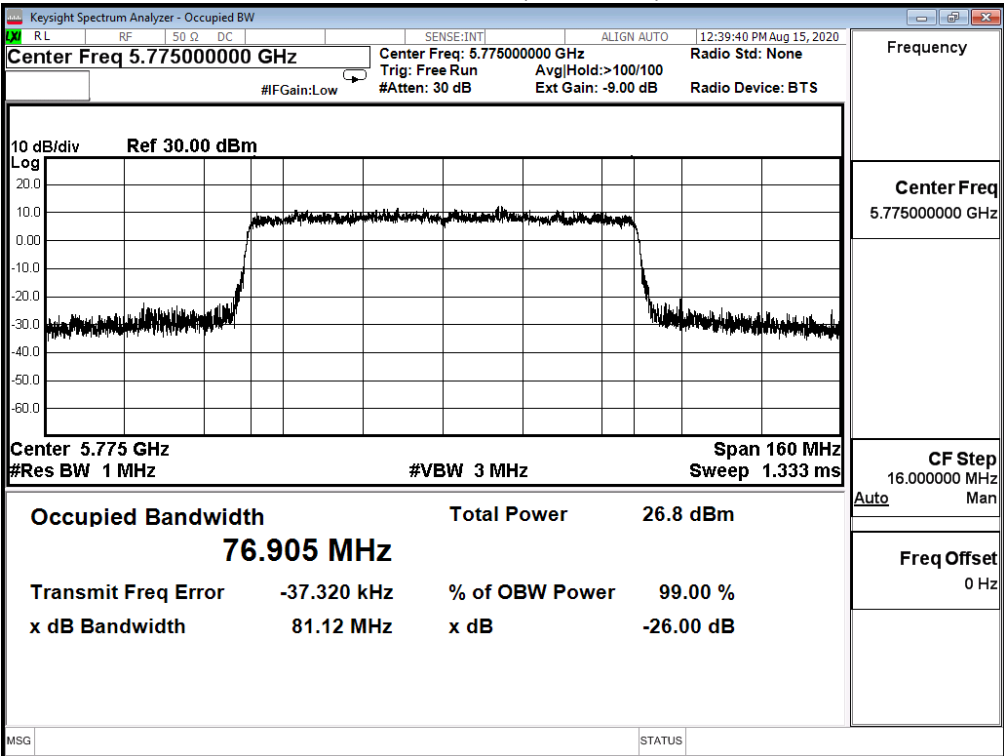
Product	FiberGateway		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 2)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	76.871	81.360	--	Pass
155	5775	76.905	N/A	--	Pass

Channel 42 (5210MHz)



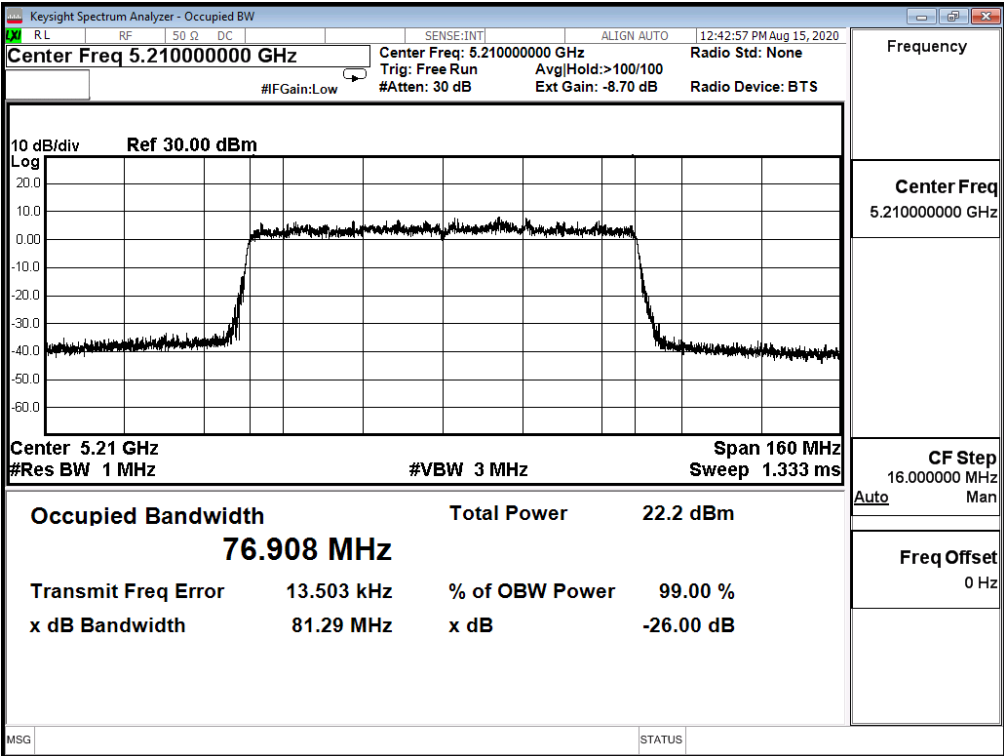
Channel 155 (5775MHz)



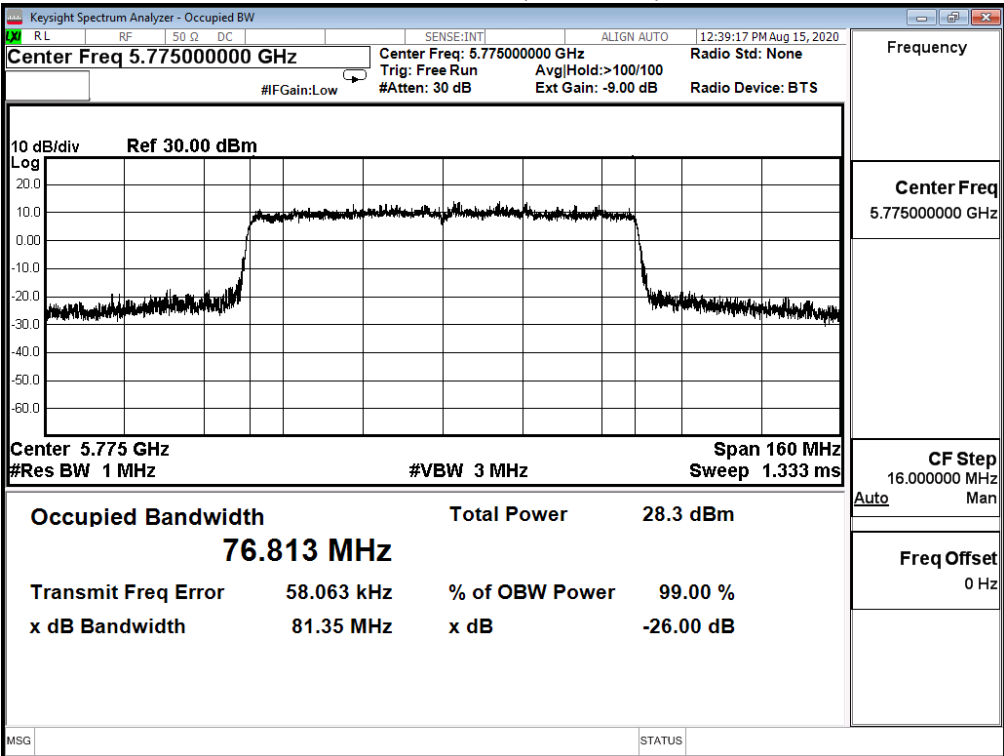
Product	FiberGateway		
Test Item	26dB & 99% Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 3)					
Channel No.	Frequency (MHz)	Measure Value		Limit (MHz)	Result
		99% Bandwidth (MHz)	26dB Bandwidth (MHz)		
42	5210	76.908	81.290	--	Pass
155	5775	76.813	N/A	--	Pass

Channel 42 (5210MHz)



Channel 155 (5775MHz)

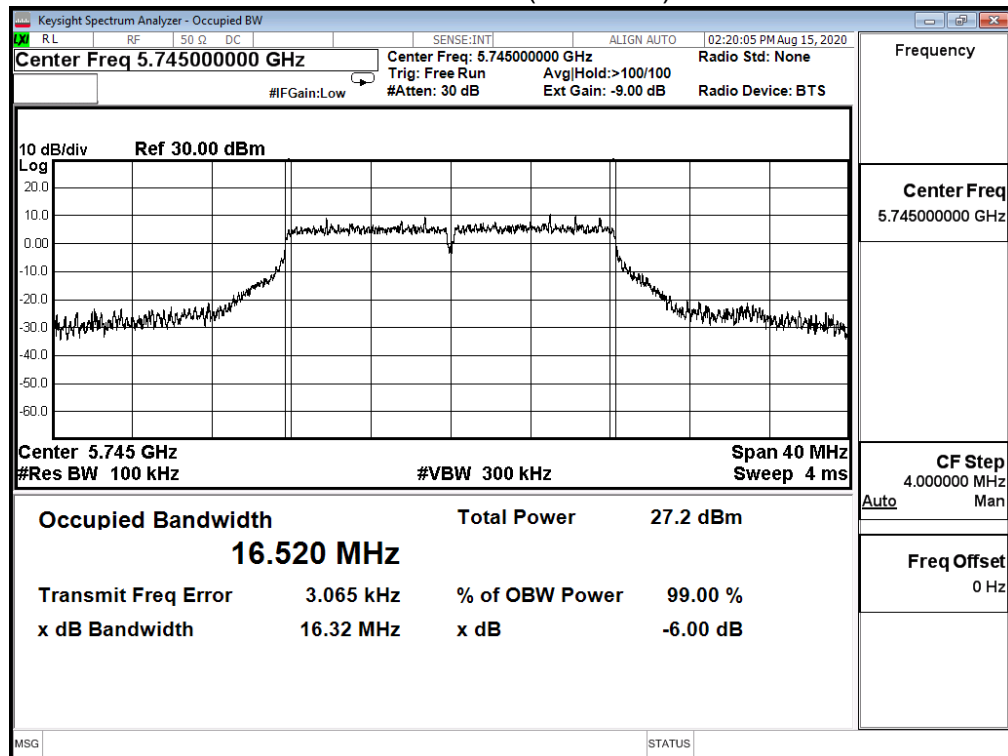


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

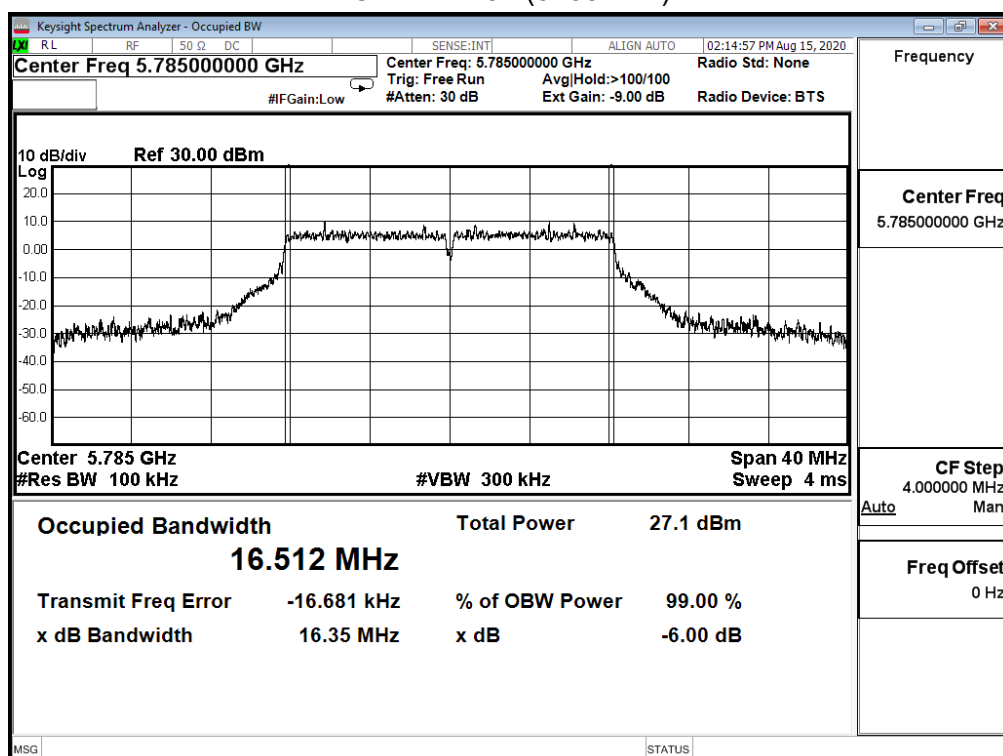
IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.320	>0.5	Pass
157	5785	16.350	>0.5	Pass
165	5825	16.340	>0.5	Pass

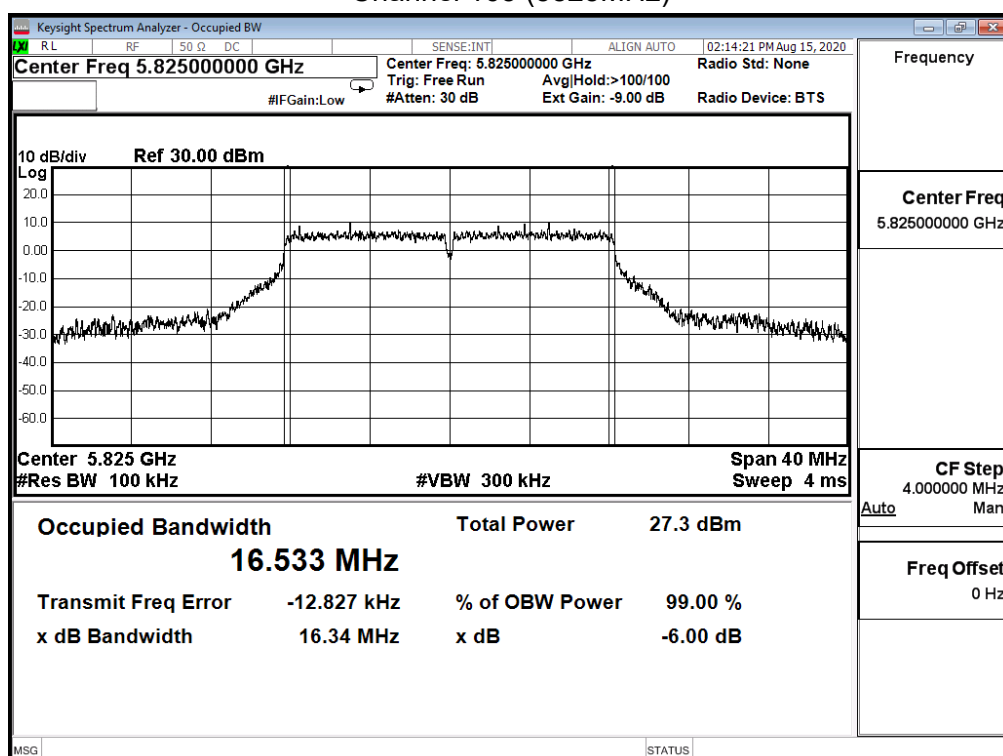
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

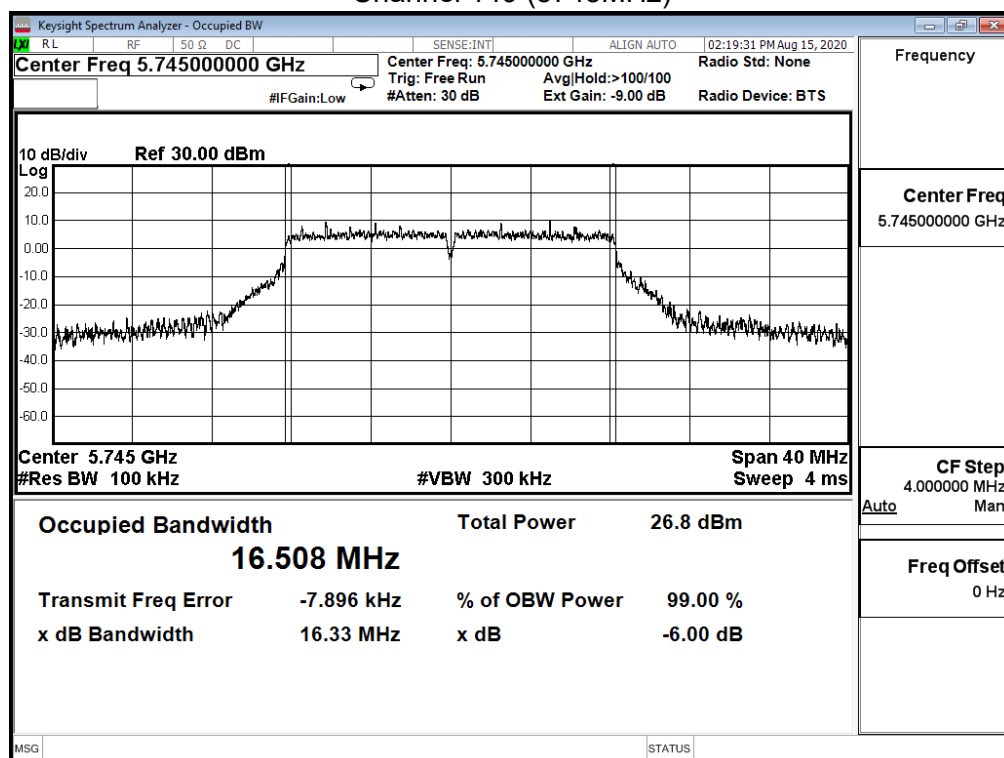


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

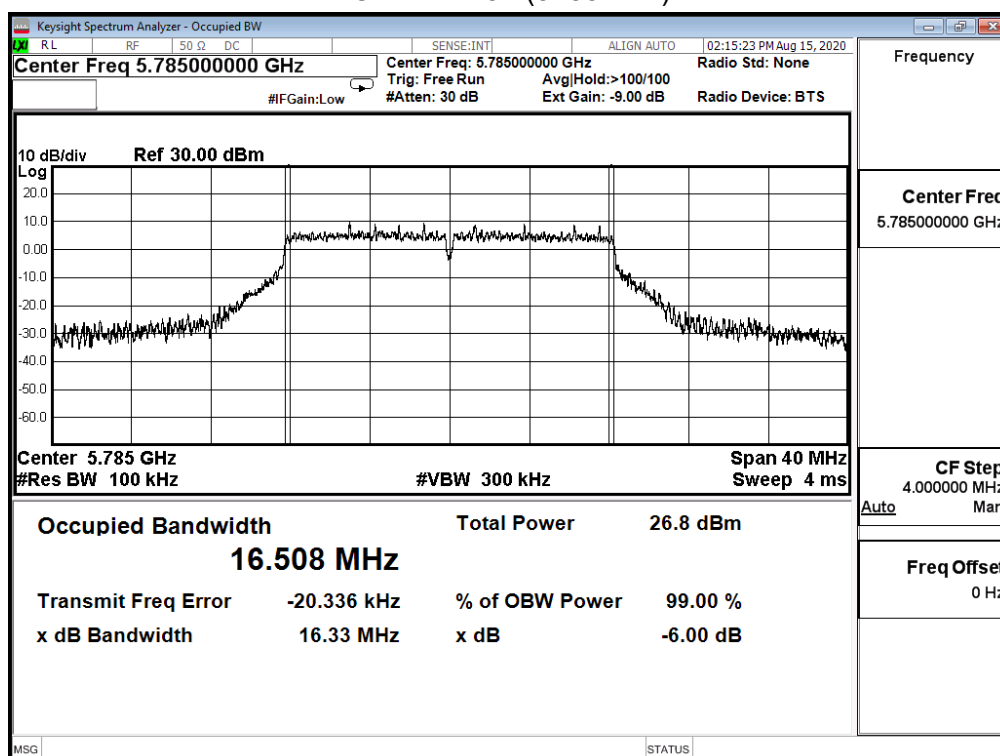
IEEE 802.11a (ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.330	>0.5	Pass
157	5785	16.330	>0.5	Pass
165	5825	16.350	>0.5	Pass

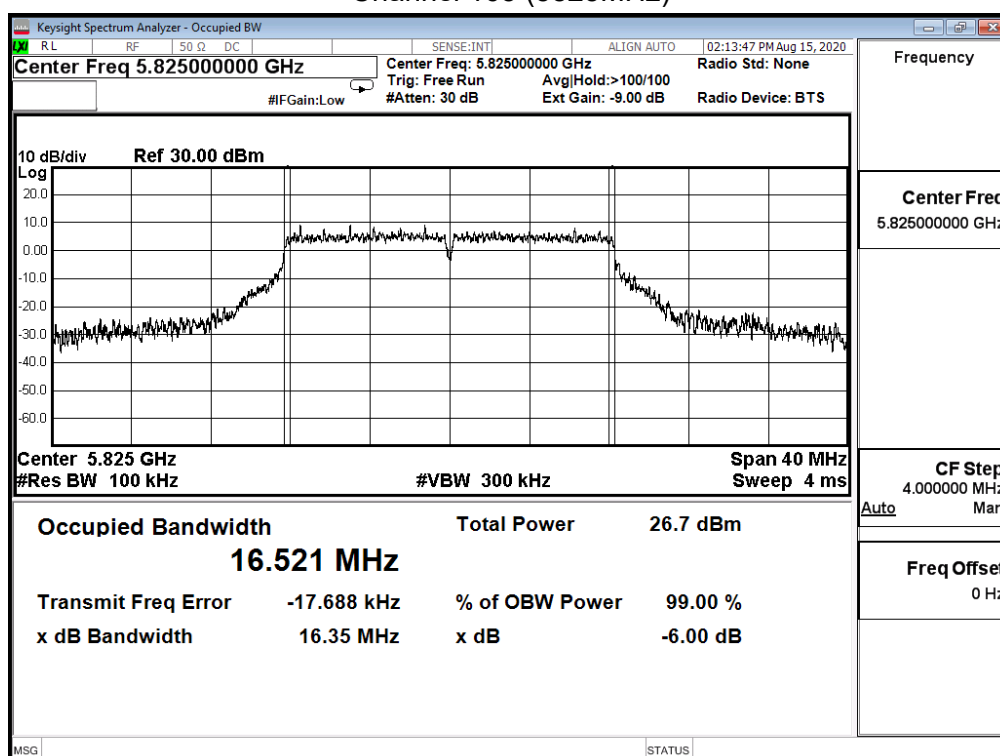
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

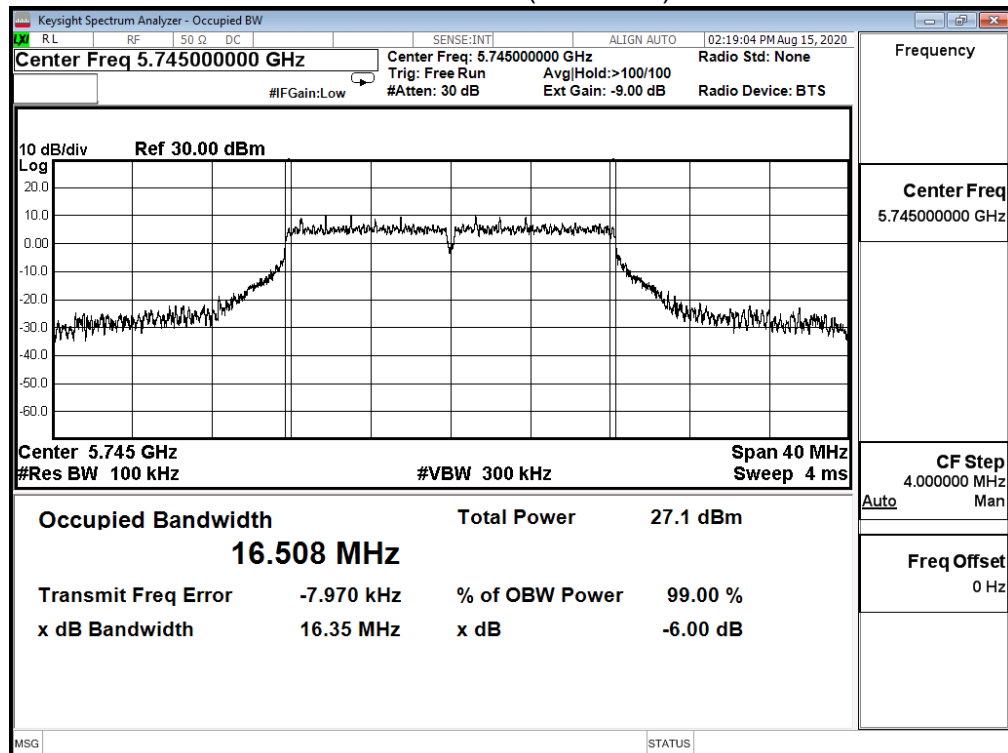


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

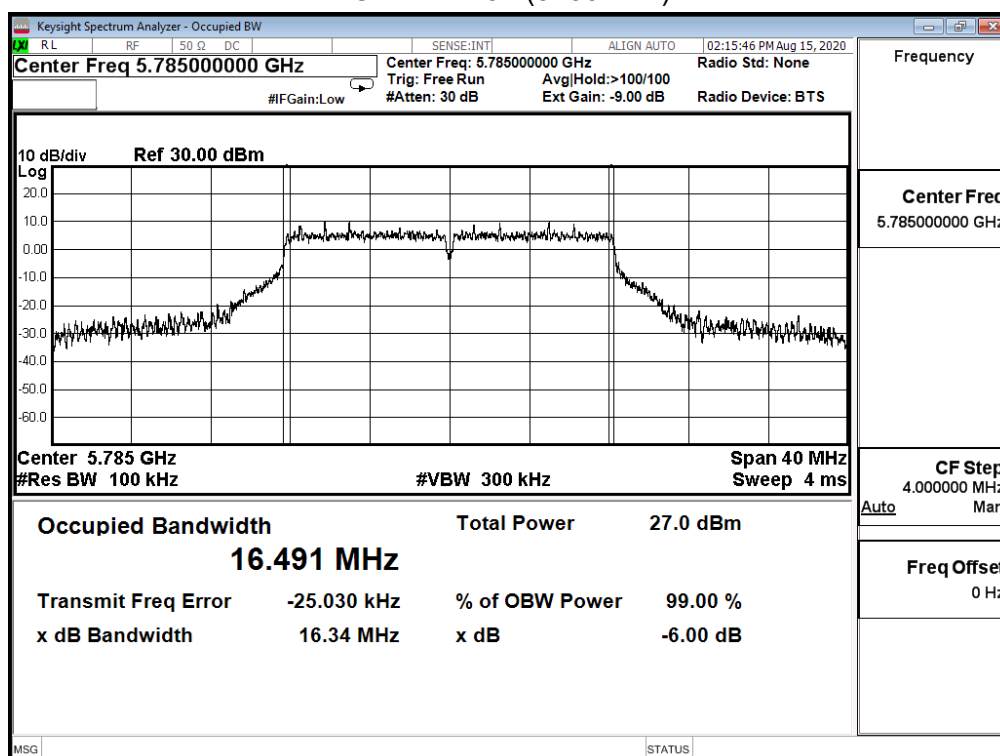
IEEE 802.11a (ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.350	>0.5	Pass
157	5785	16.340	>0.5	Pass
165	5825	16.340	>0.5	Pass

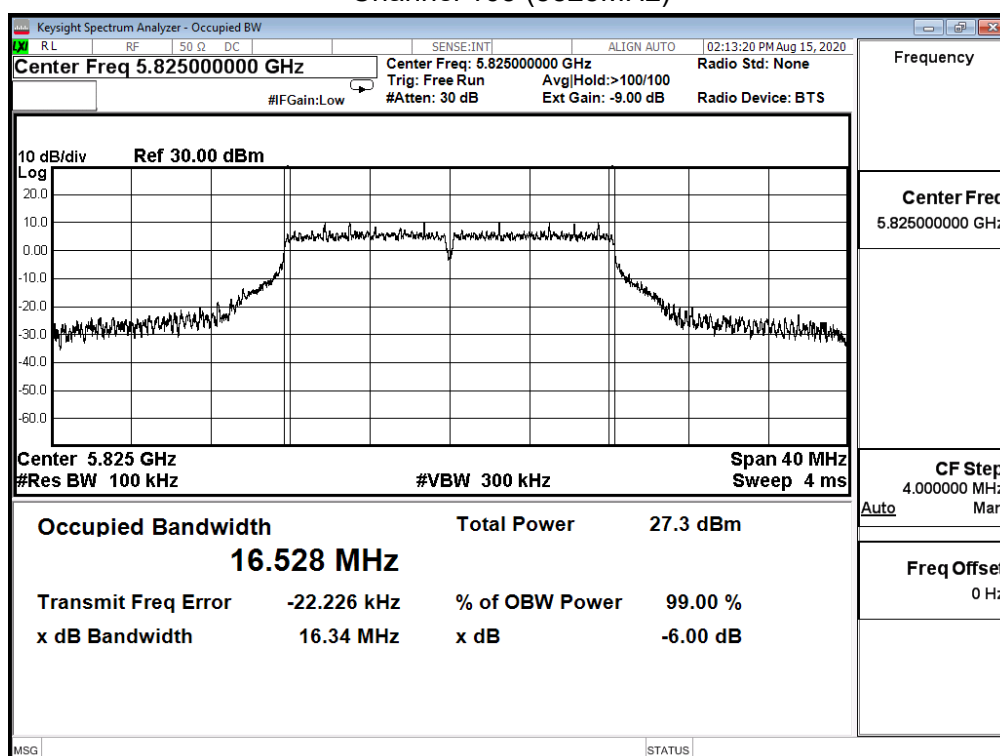
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

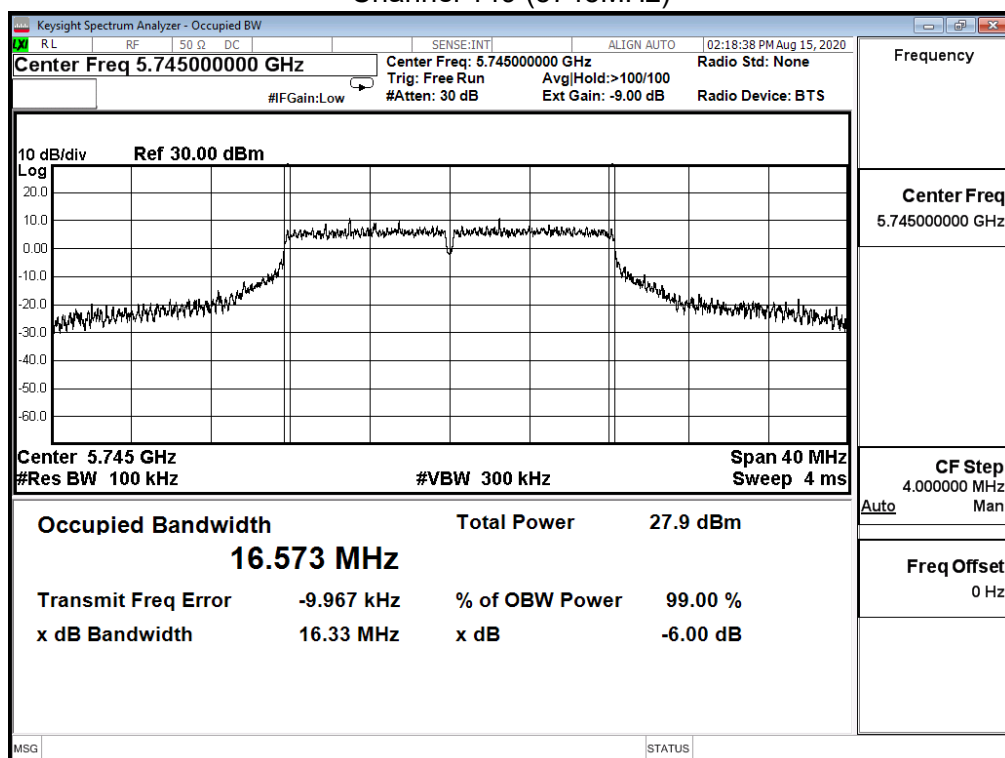


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

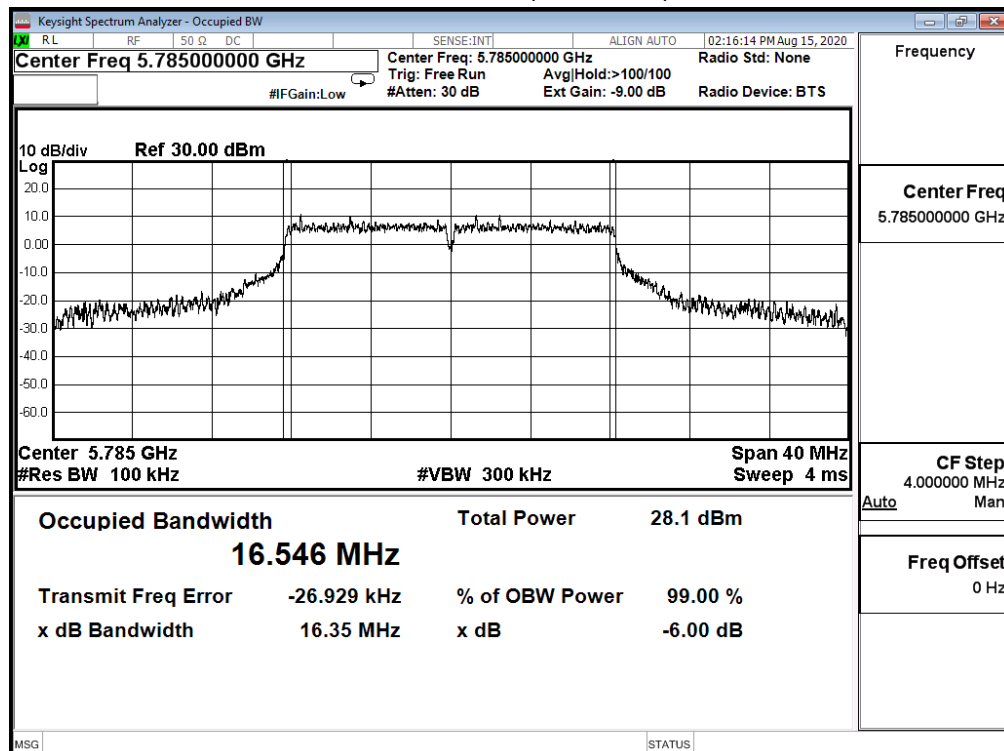
IEEE 802.11a (ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	16.330	>0.5	Pass
157	5785	16.350	>0.5	Pass
165	5825	16.350	>0.5	Pass

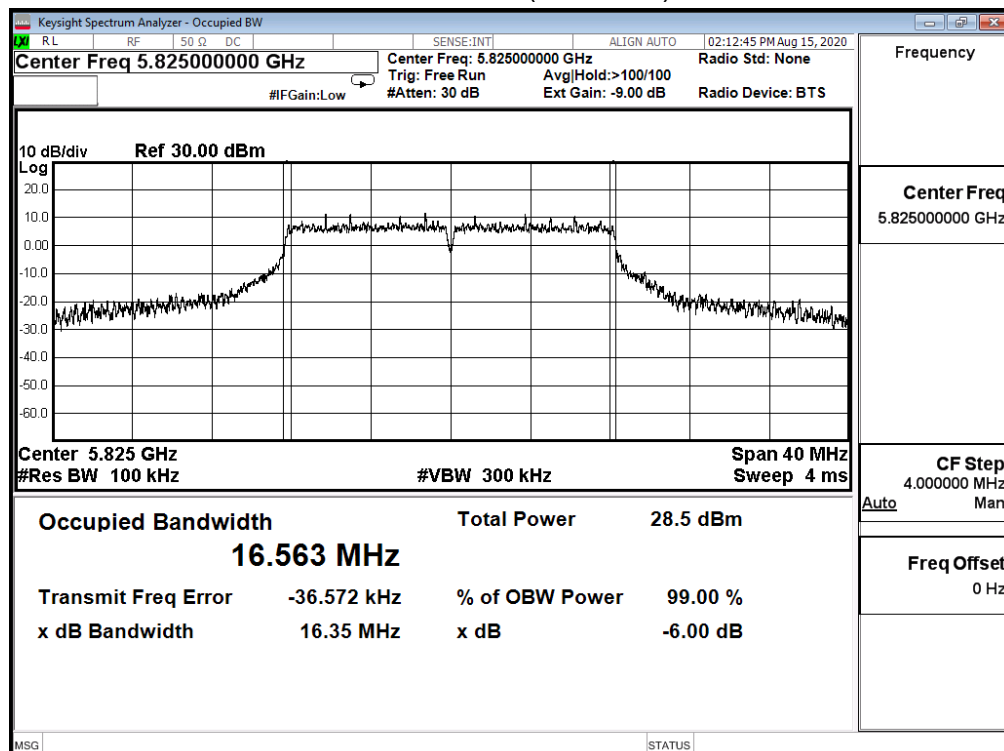
Channel 149 (5745MHz)



Channel 157 (5785MHz)



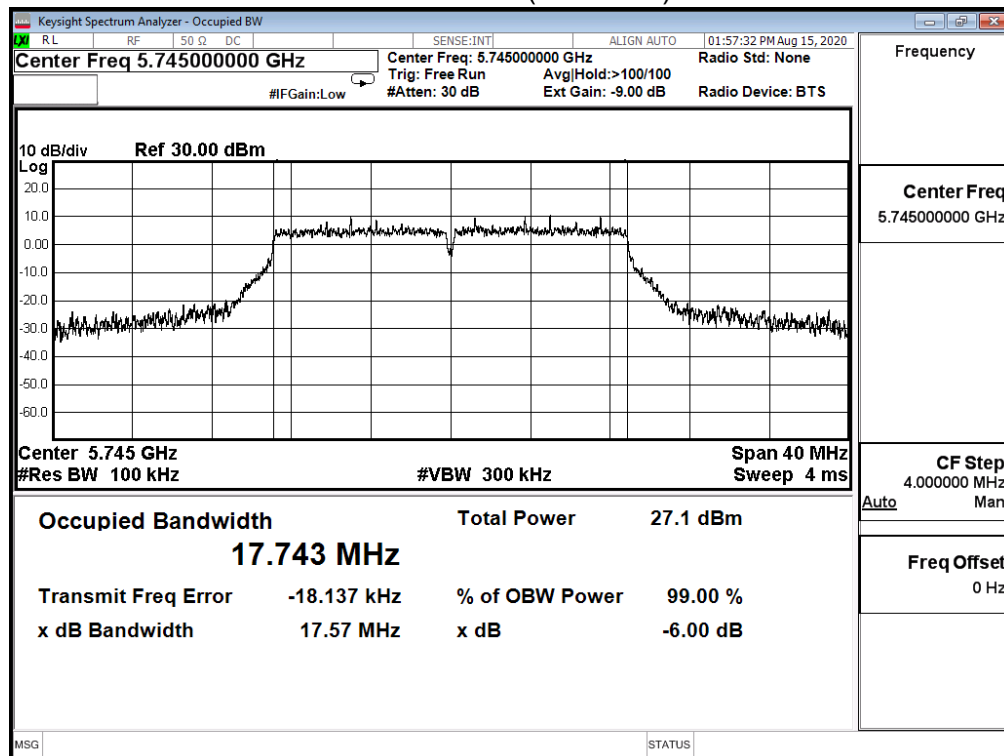
Channel 165 (5825MHz)



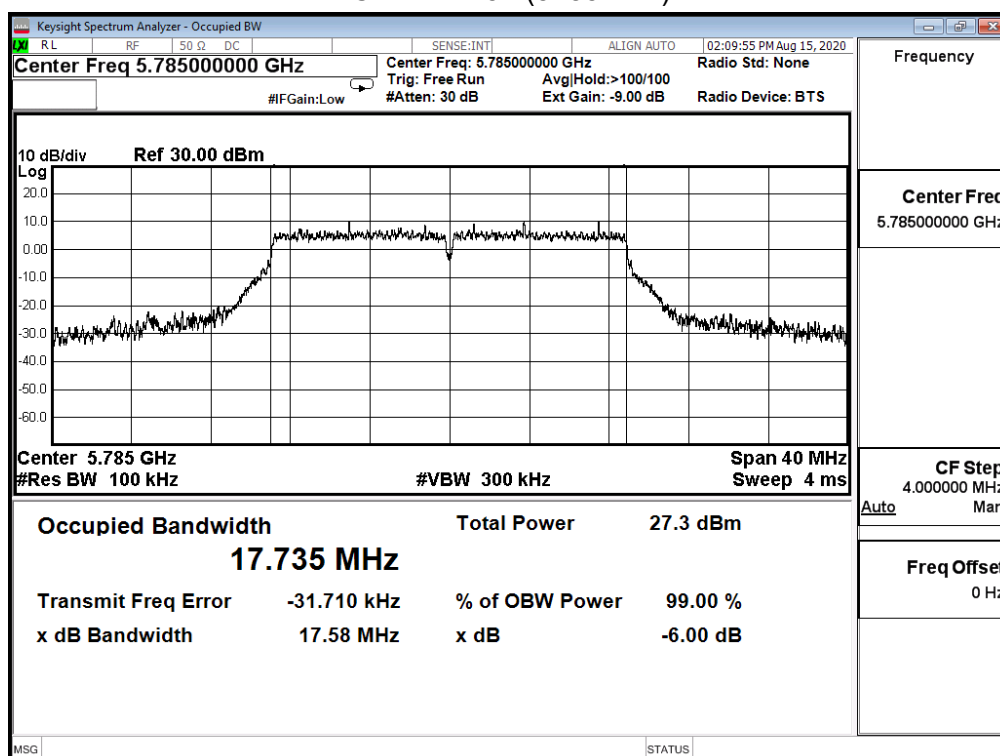
Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_20M(ANT 0)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	17.570	>0.5	Pass
157	5785	17.580	>0.5	Pass
165	5825	17.570	>0.5	Pass

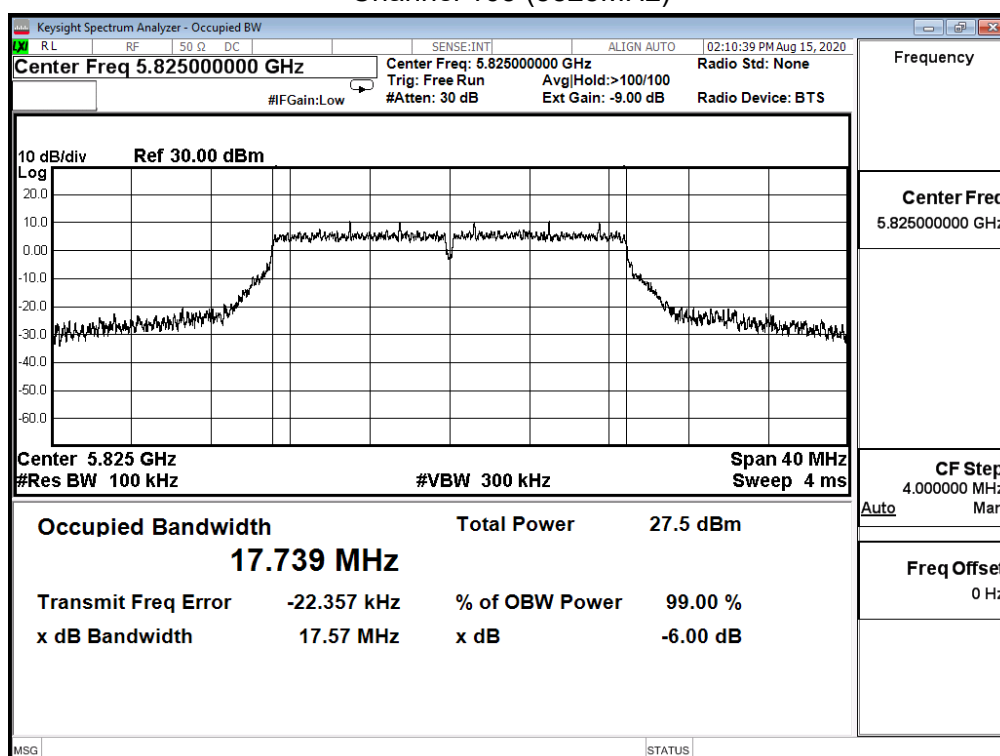
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

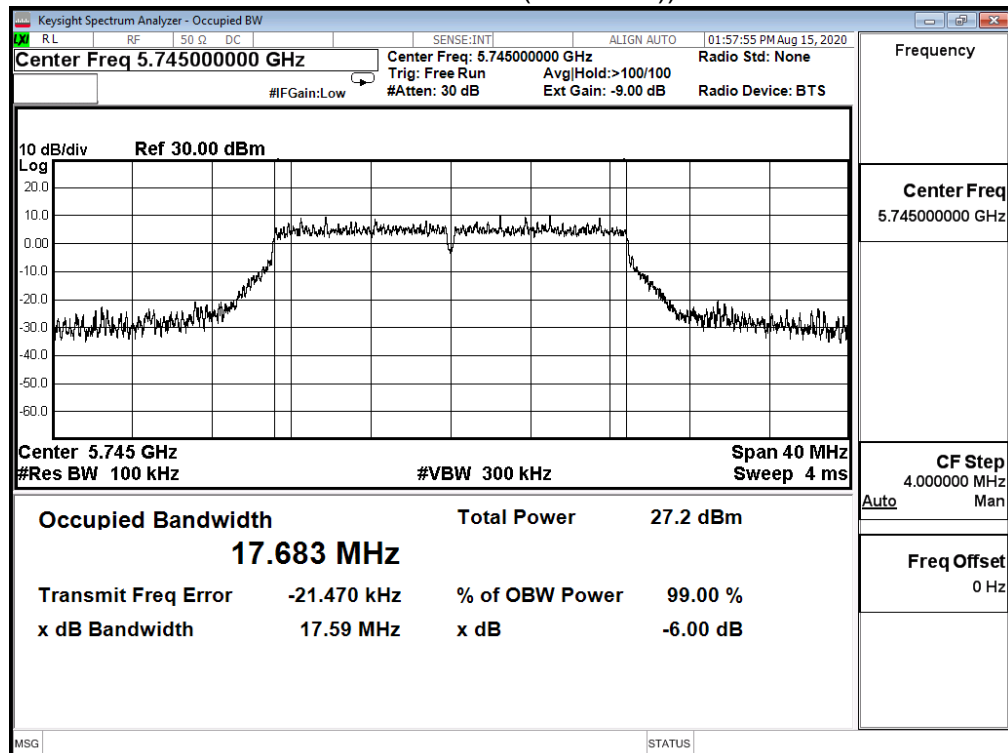


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

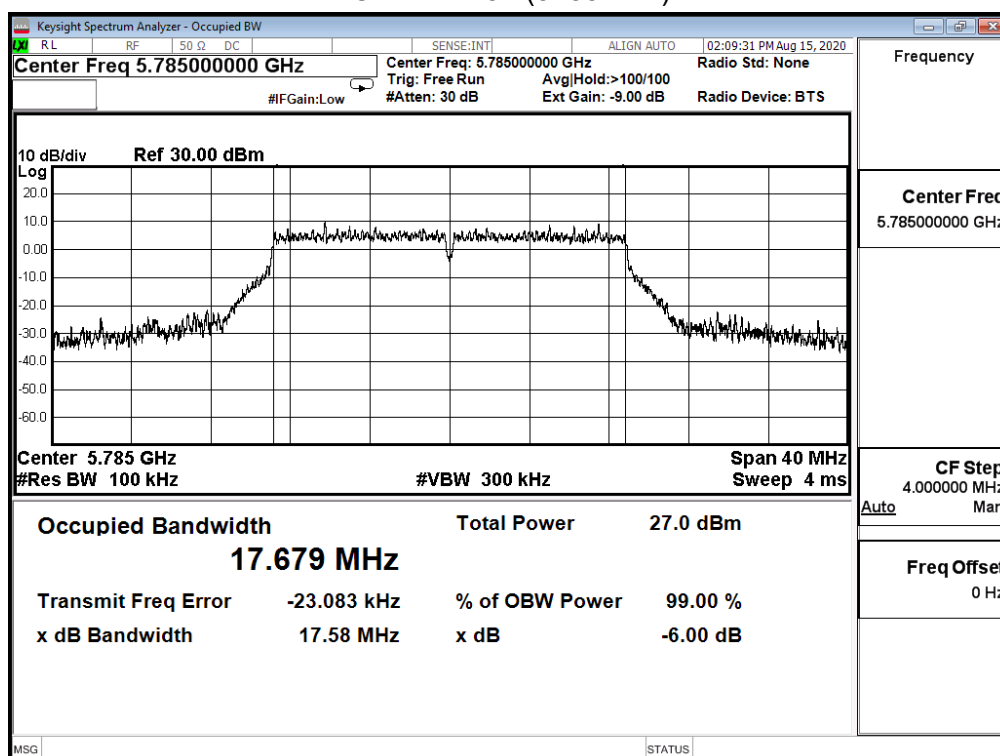
IEEE 802.11ac_20M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	17.590	>0.5	Pass
157	5785	17.580	>0.5	Pass
165	5825	17.600	>0.5	Pass

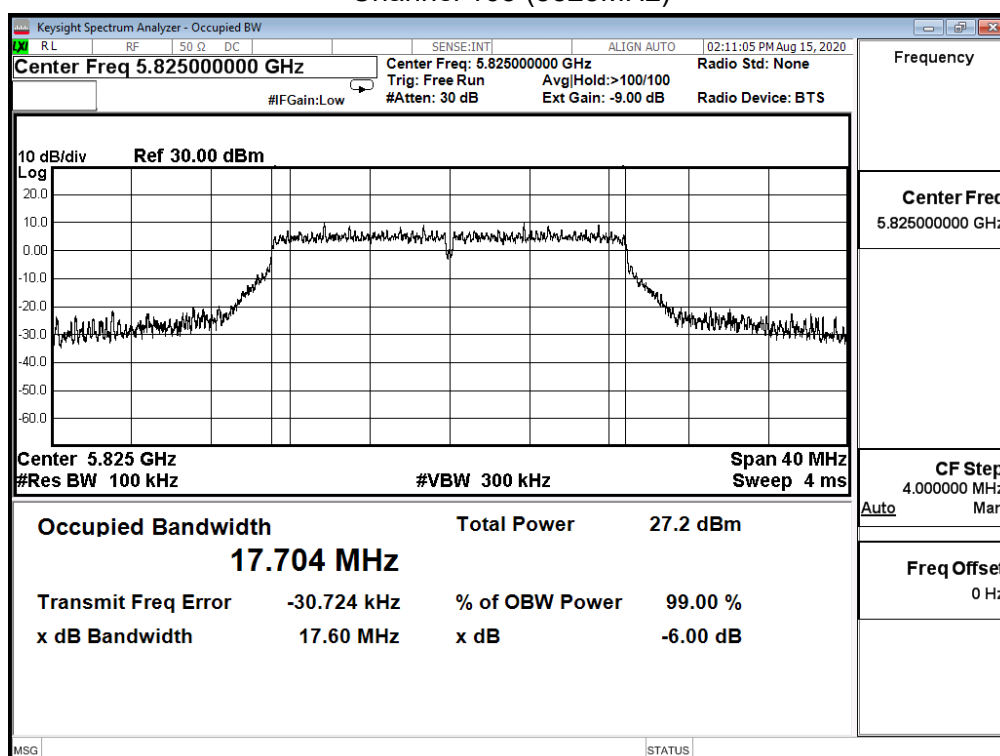
Channel 149 (5745MHz))



Channel 157 (5785MHz)



Channel 165 (5825MHz)

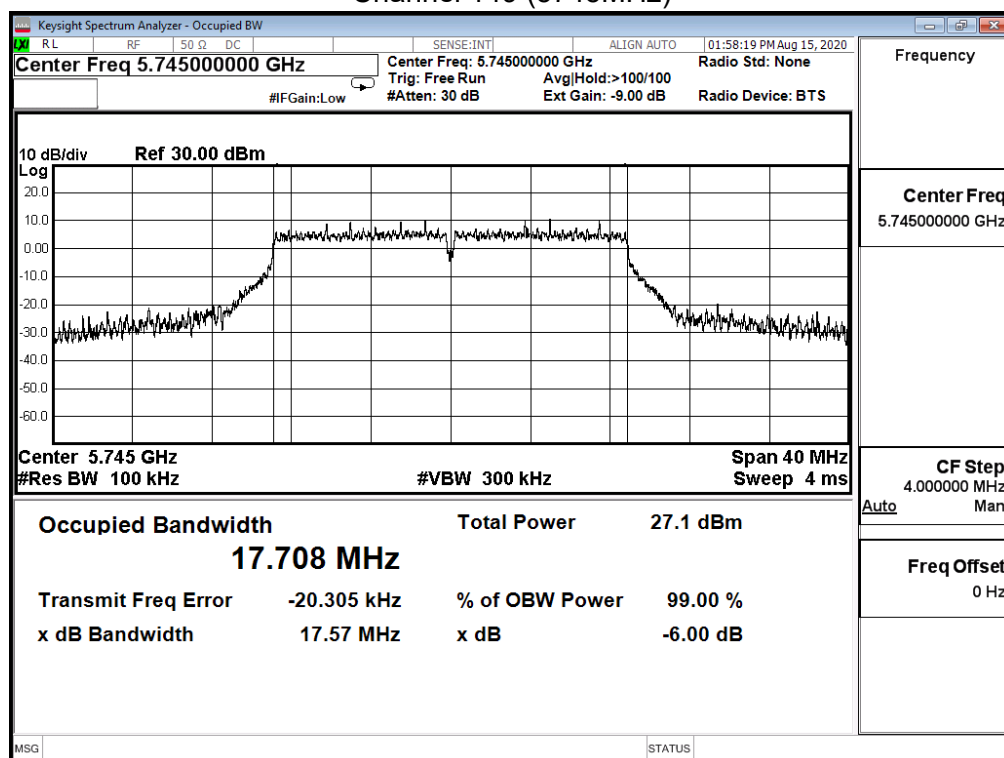


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

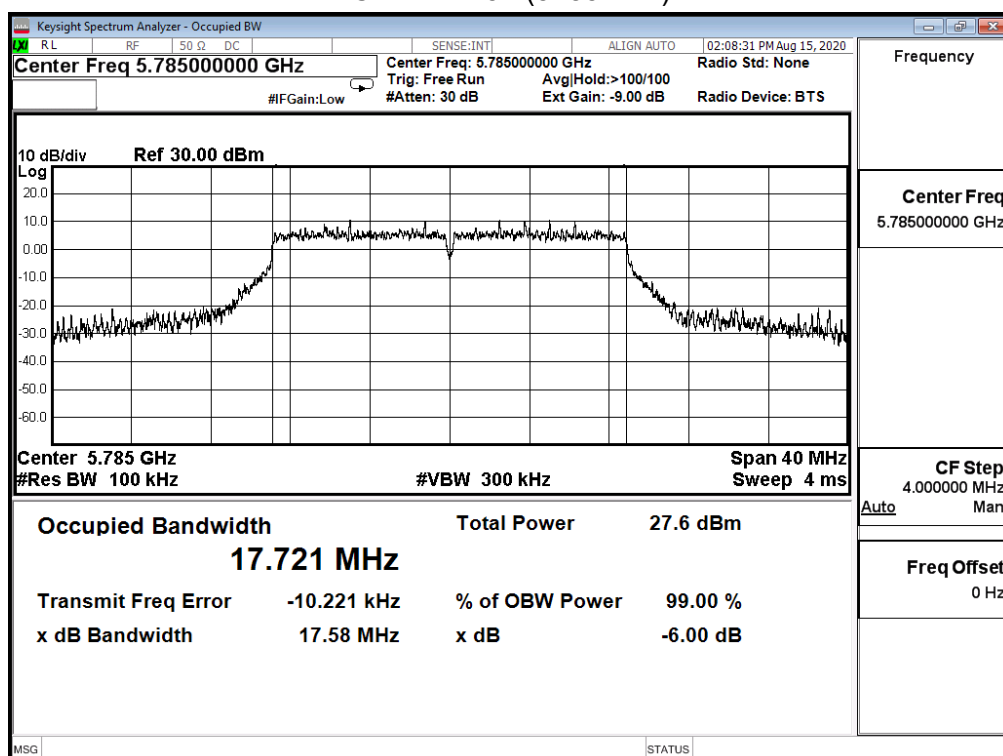
IEEE 802.11ac_20M(ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	17.570	>0.5	Pass
157	5785	17.580	>0.5	Pass
165	5825	17.580	>0.5	Pass

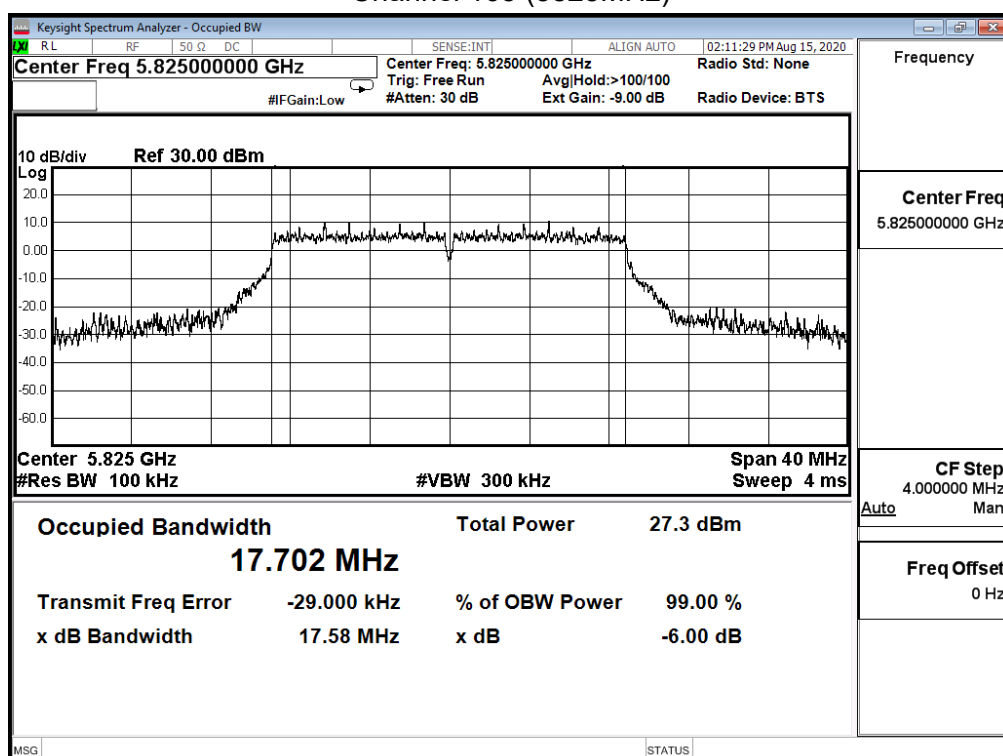
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

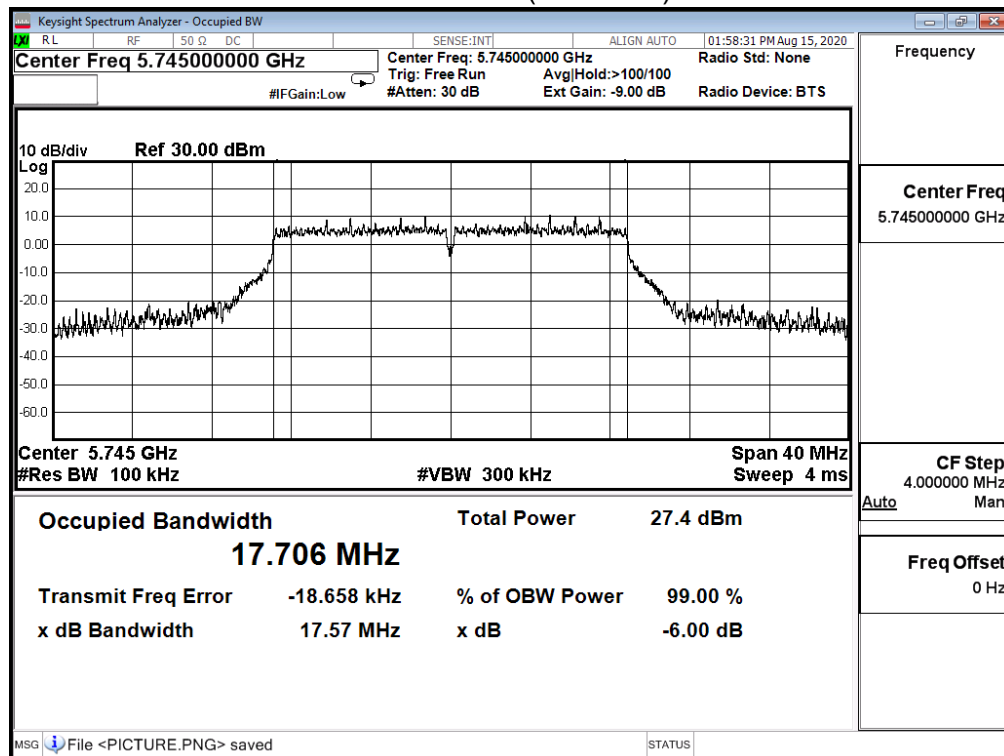


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

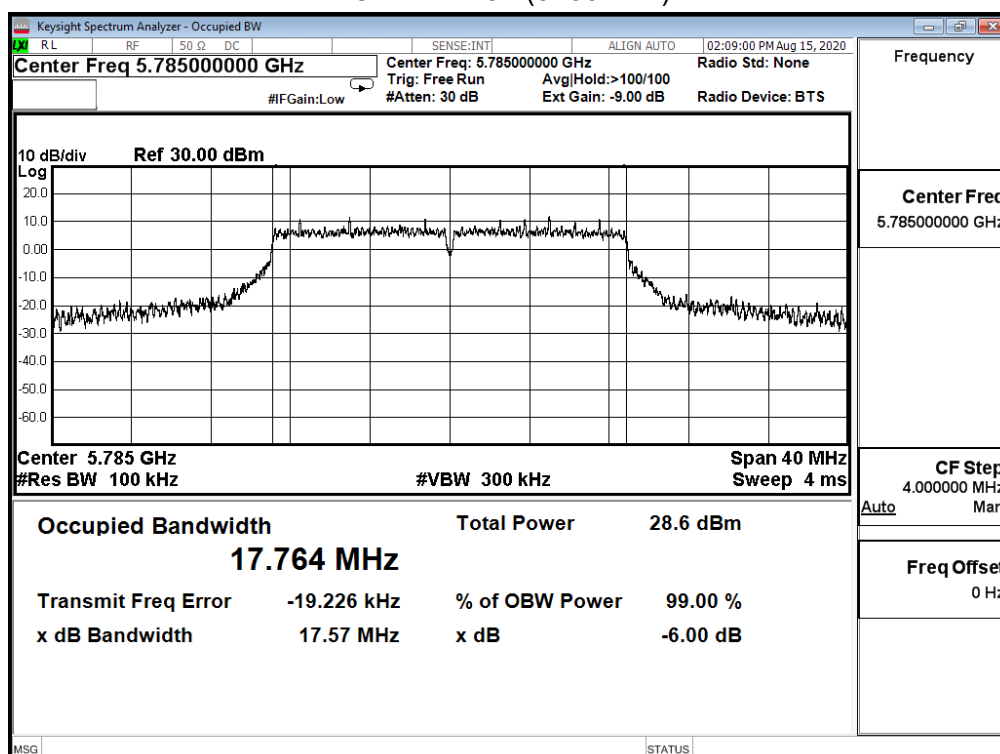
IEEE 802.11ac_20M(ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	17.570	>0.5	Pass
157	5785	17.570	>0.5	Pass
165	5825	17.580	>0.5	Pass

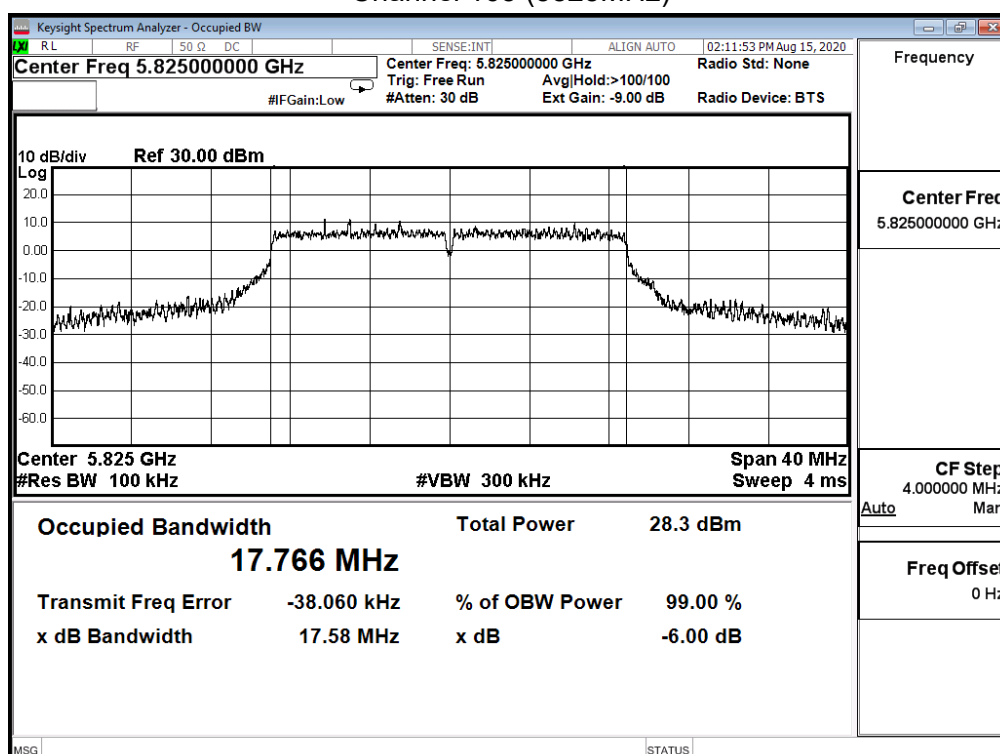
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

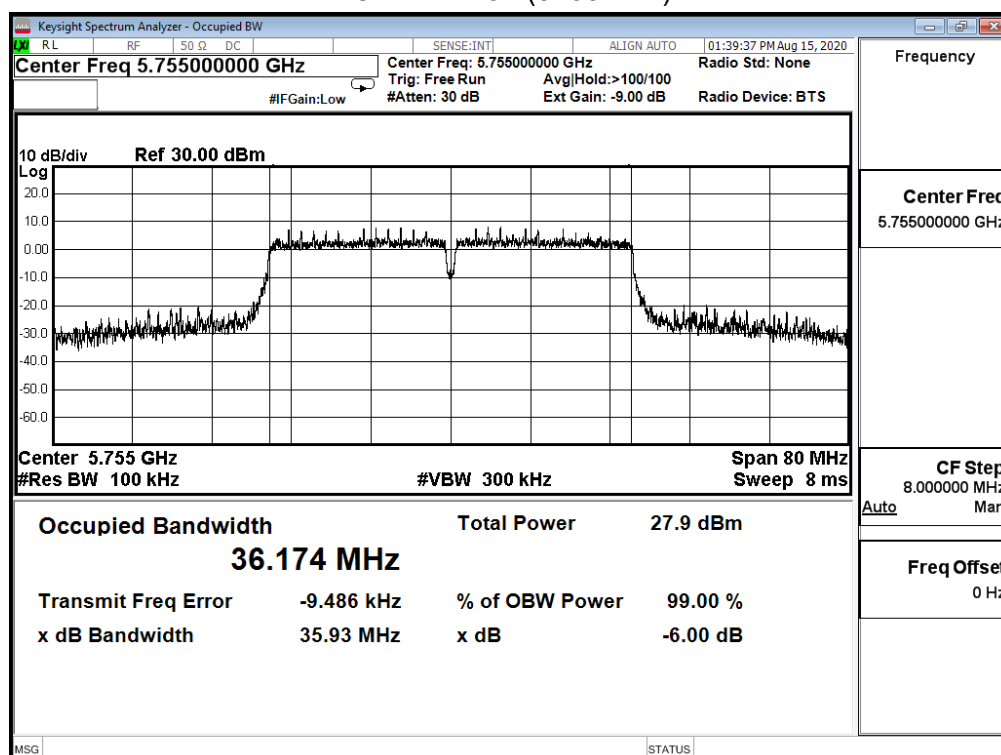


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

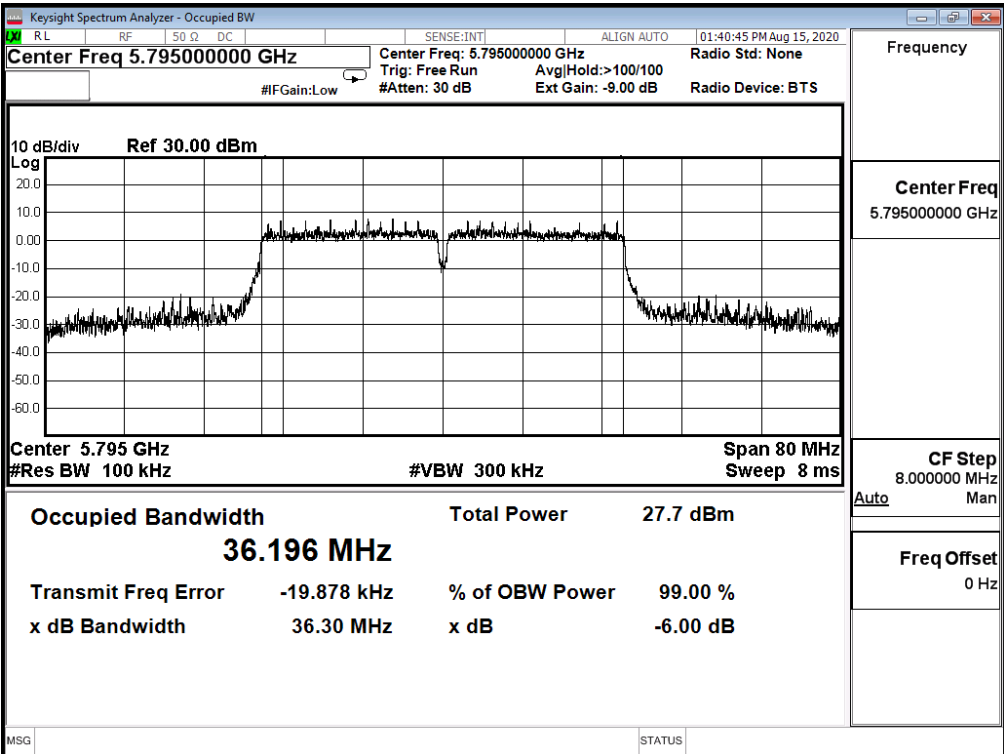
IEEE 802.11ac_40M(ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	35.930	>0.5	Pass
159	5795	36.300	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

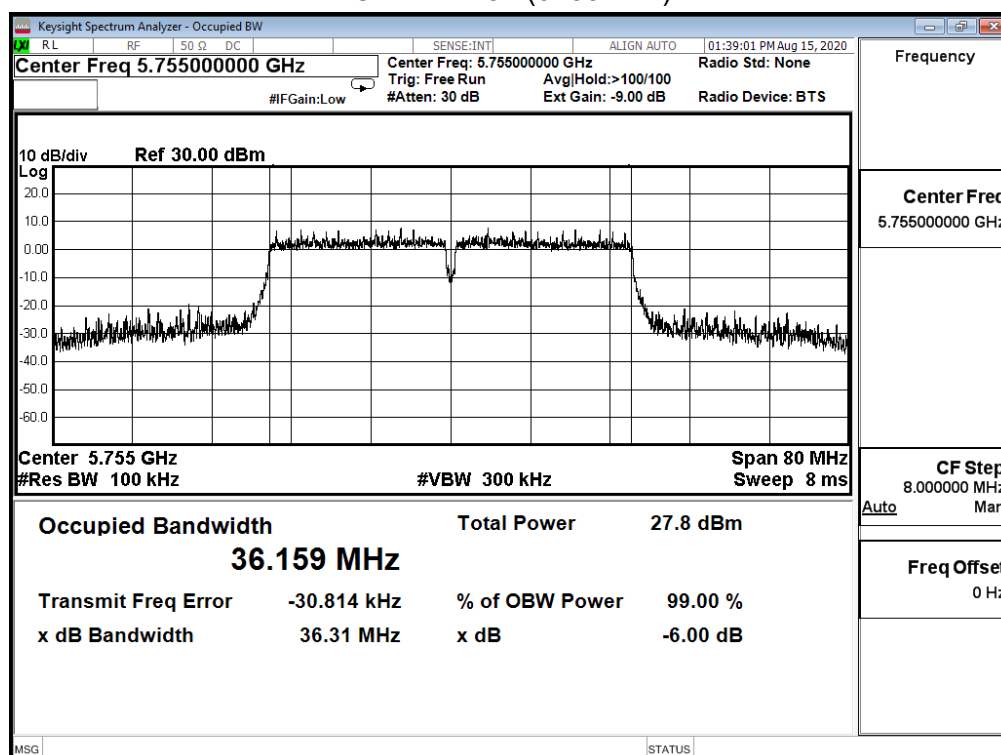


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

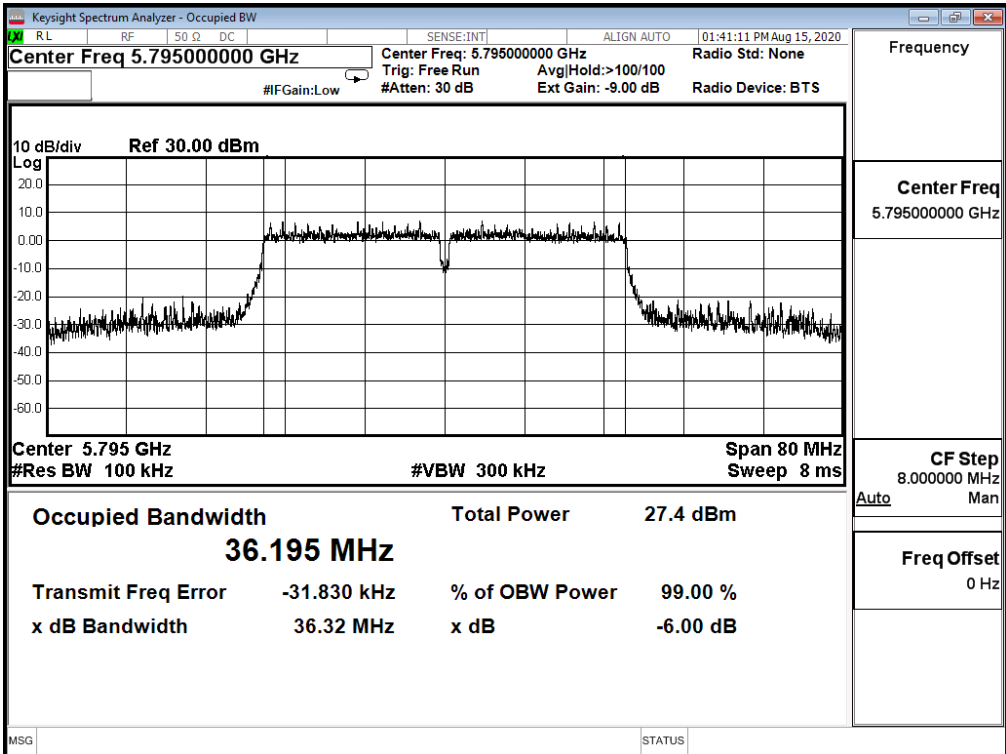
IEEE 802.11ac_40M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	36.310	>0.5	Pass
159	5795	36.320	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

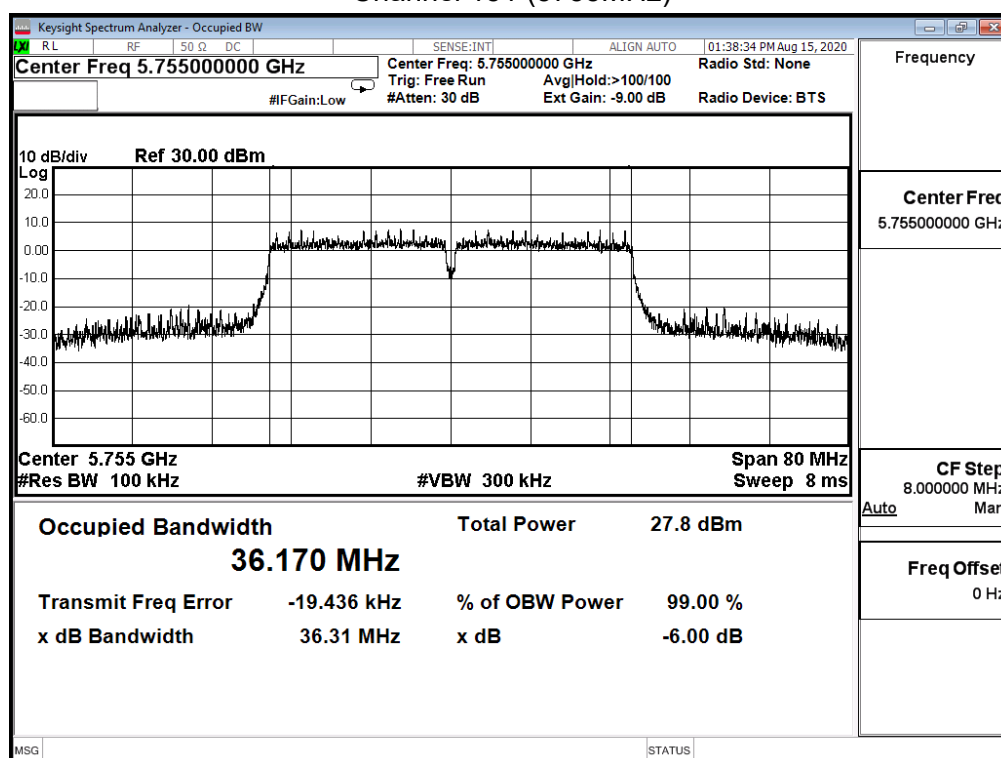


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

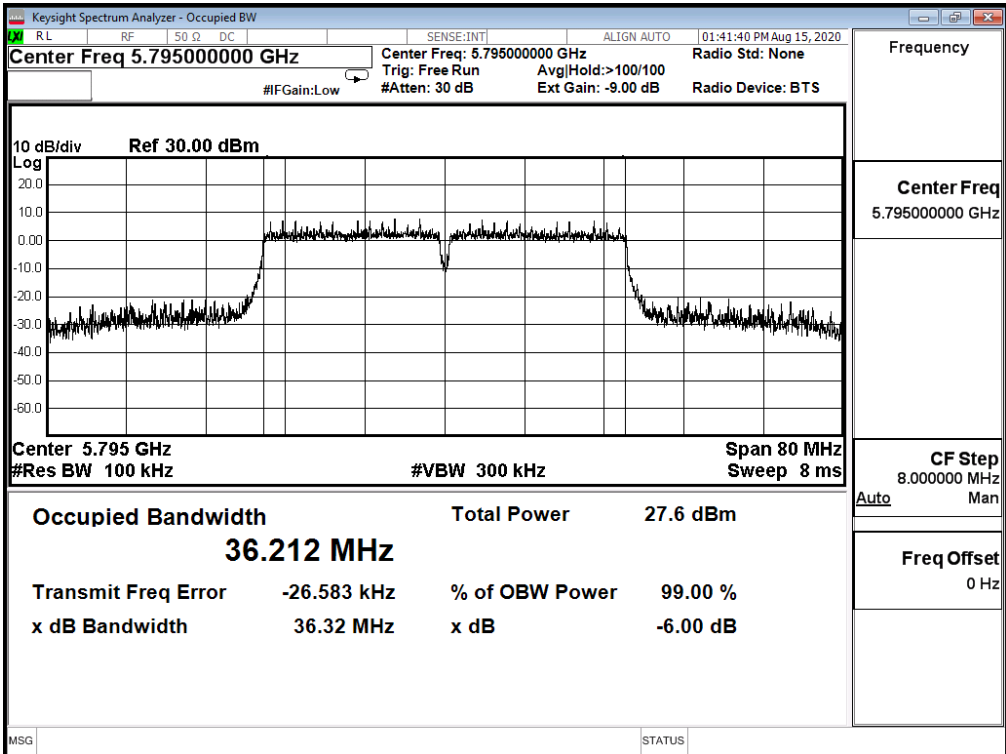
IEEE 802.11ac_40M(ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	36.310	>0.5	Pass
159	5795	36.320	>0.5	Pass

Channel 151 (5755MHz)



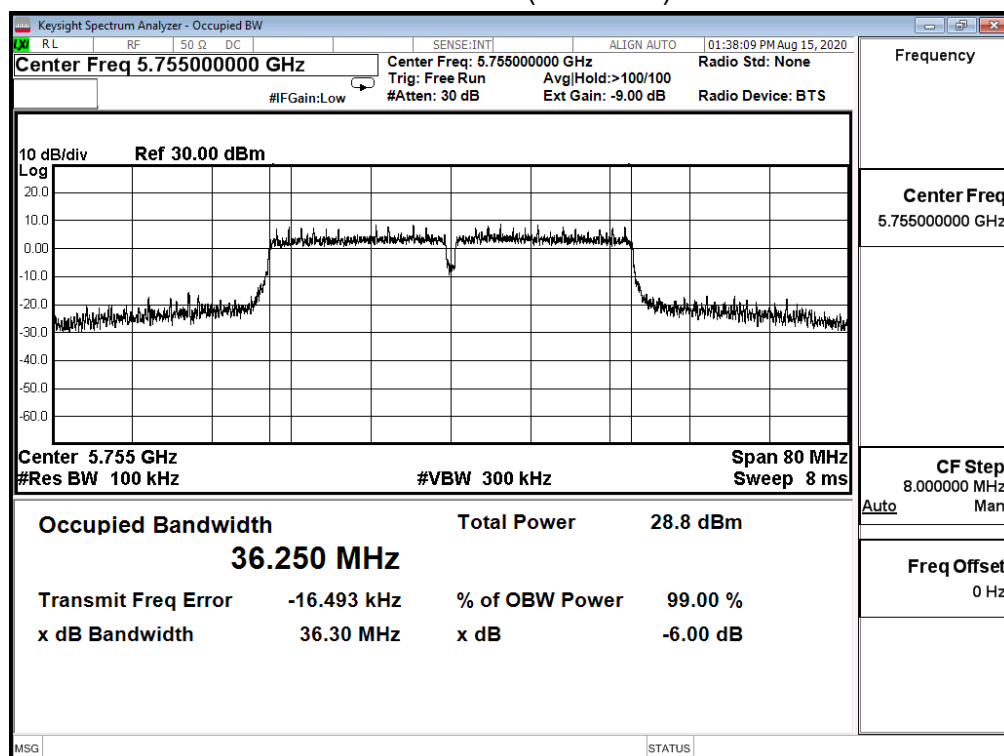
Channel 159 (5795MHz)



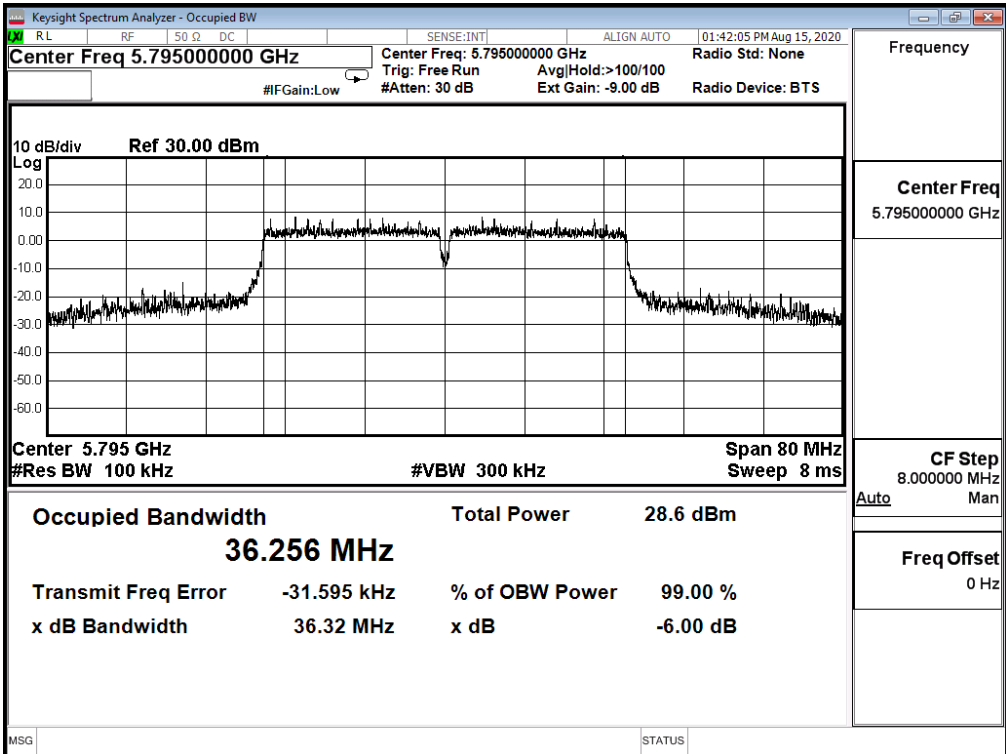
Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_40M(ANT 3)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	36.300	>0.5	Pass
159	5795	36.320	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

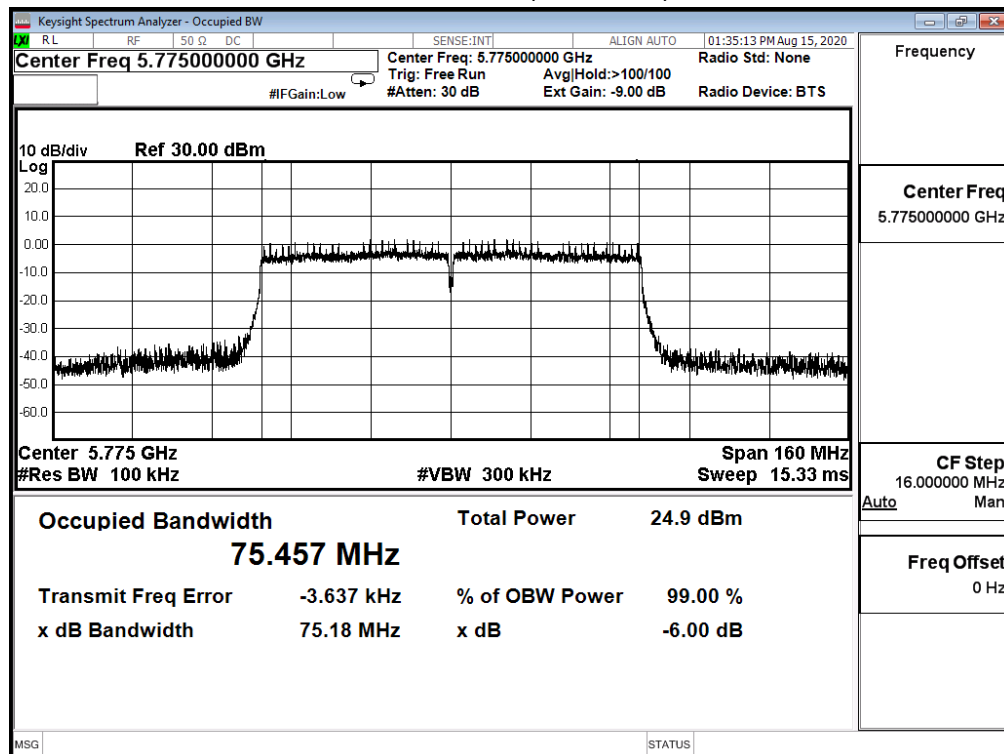


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_80M(ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.180	>0.5	Pass

Channel 155 (5775MHz)

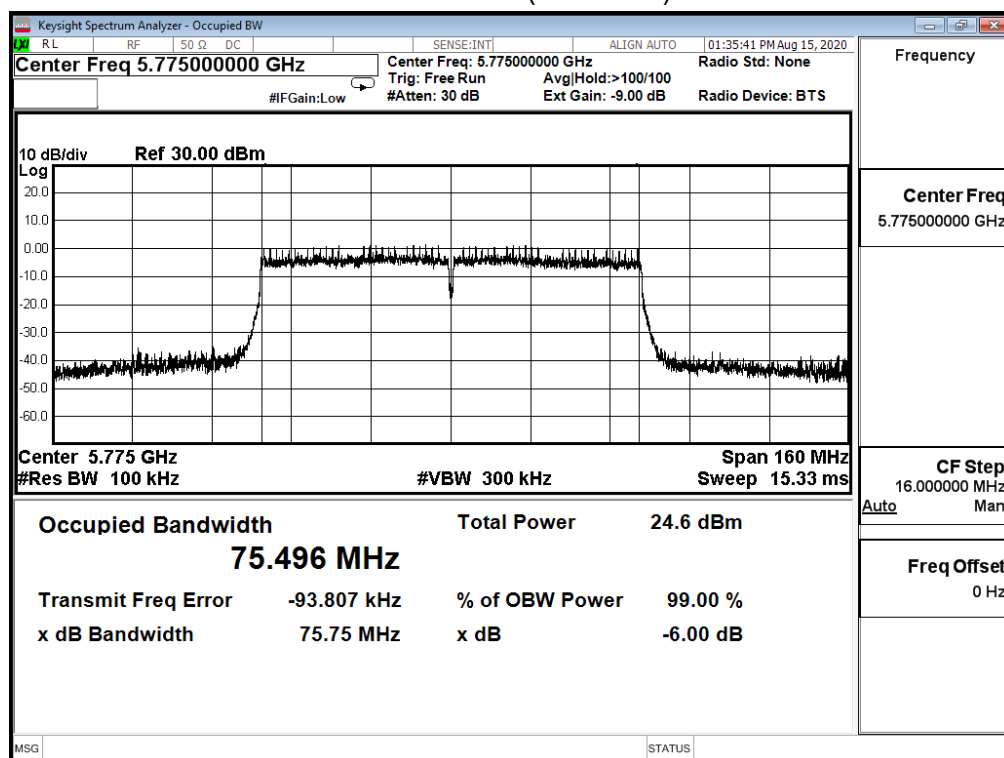


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_80M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.750	>0.5	Pass

Channel 155 (5775MHz)

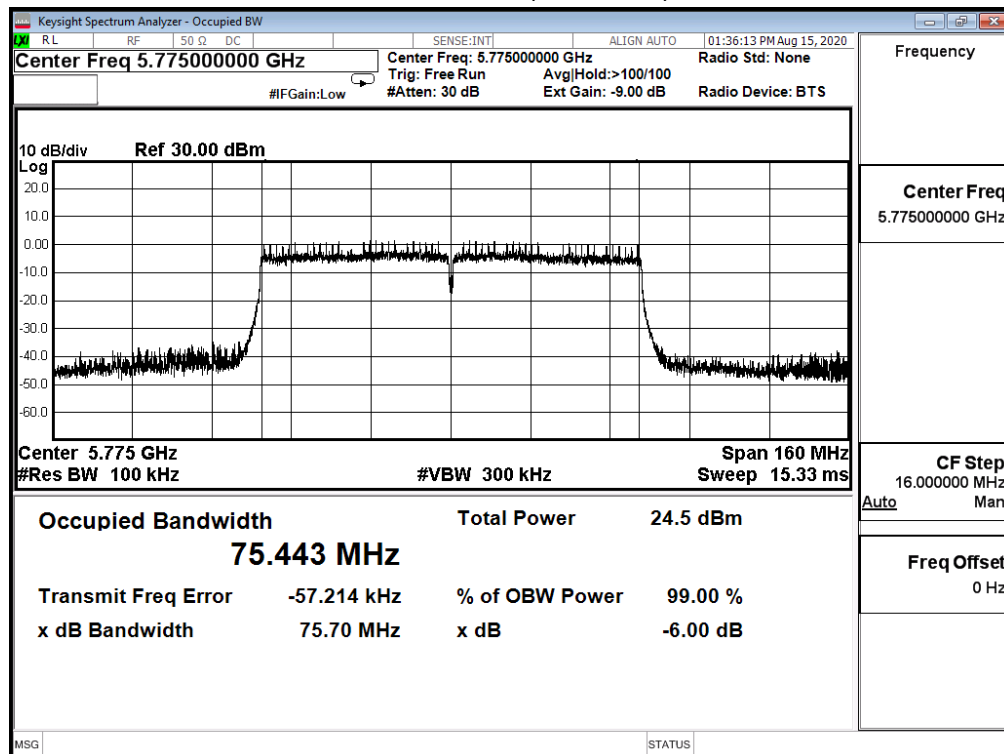


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_80M(ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.700	>0.5	Pass

Channel 155 (5775MHz)

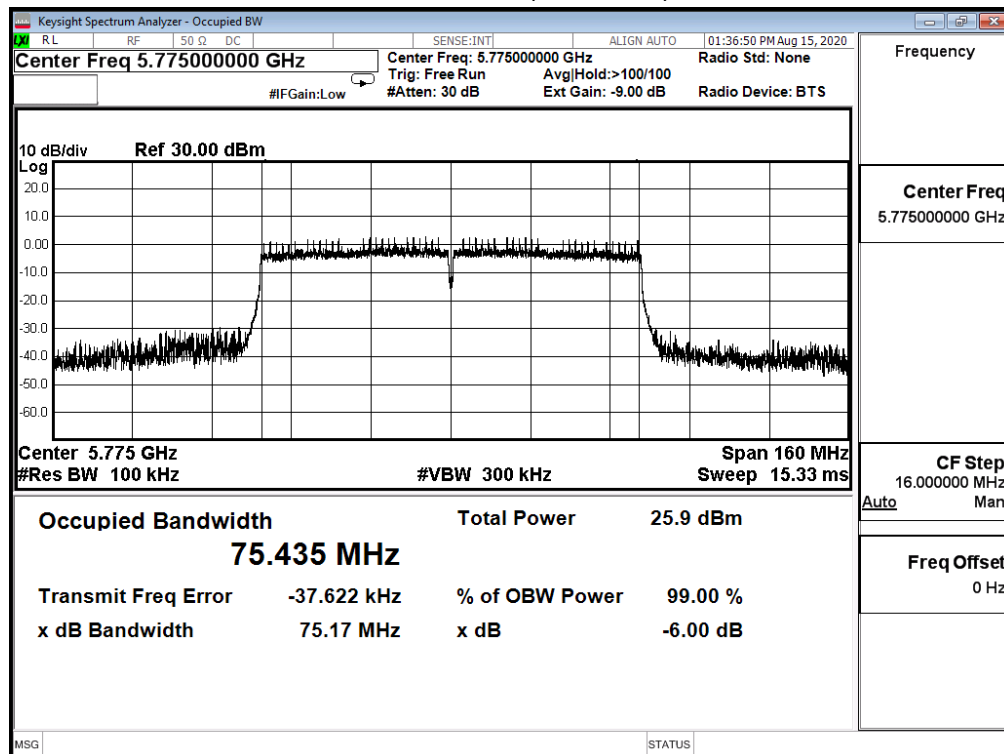


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ac_80M(ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.170	>0.5	Pass

Channel 155 (5775MHz)

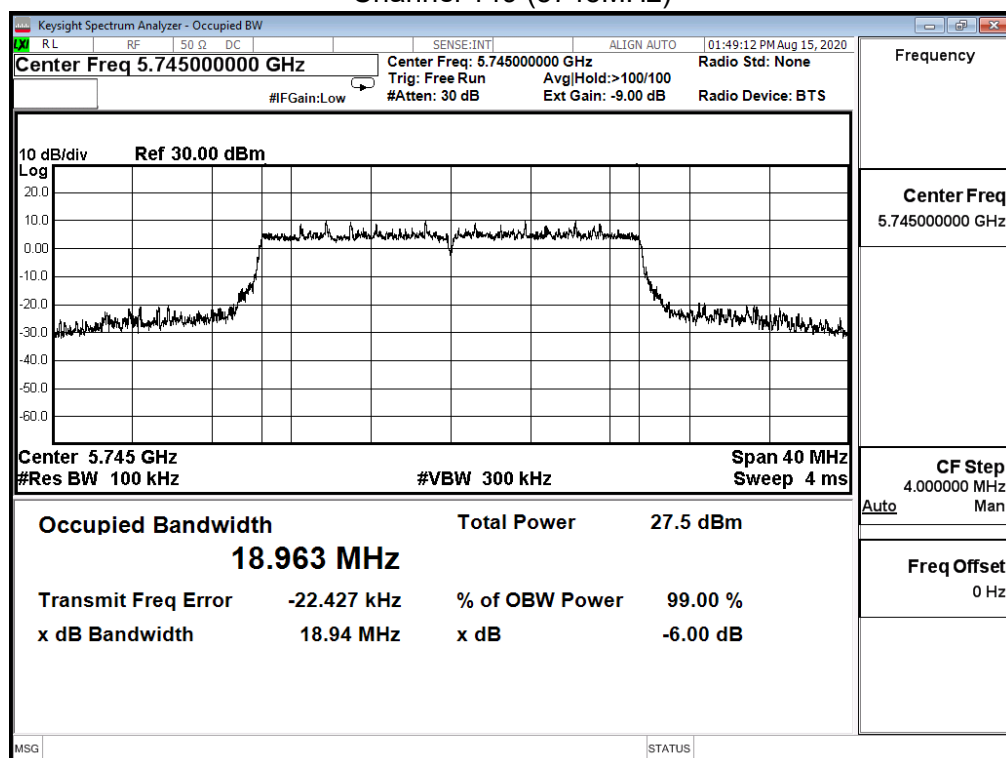


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

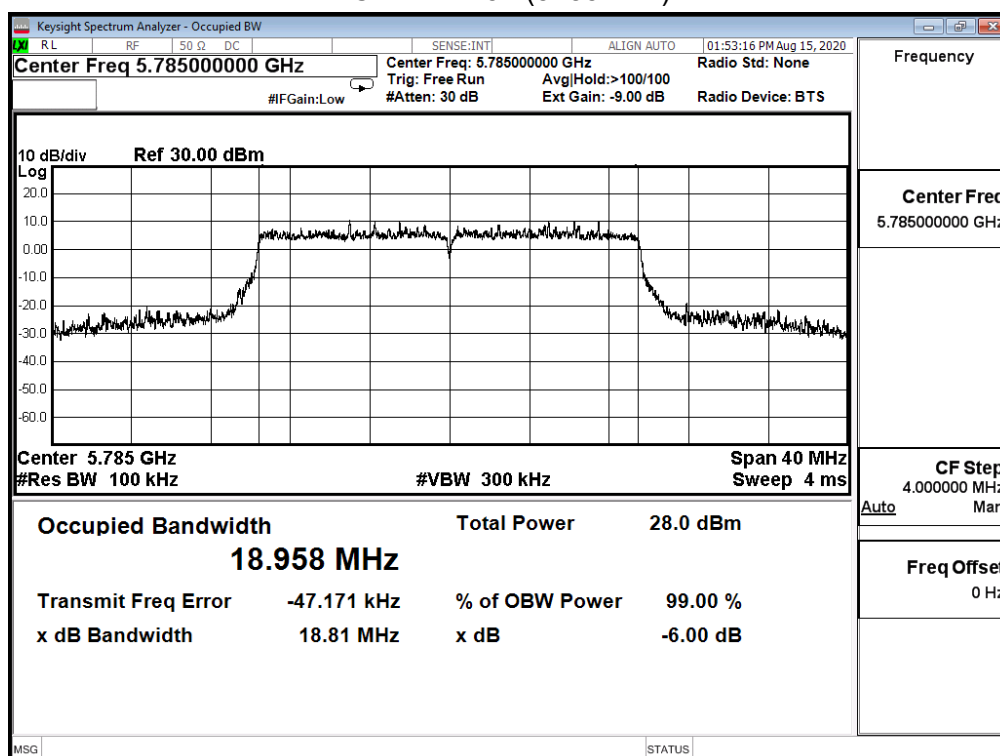
IEEE 802.11ax_20M(ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	18.940	>0.5	Pass
157	5785	18.810	>0.5	Pass
165	5825	18.940	>0.5	Pass

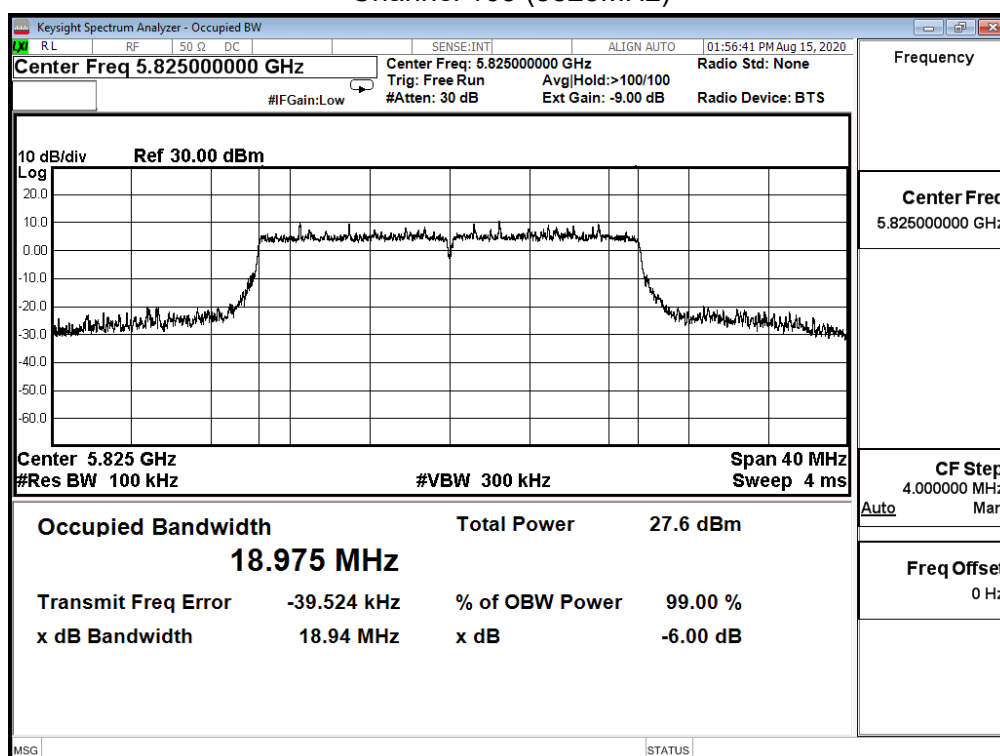
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

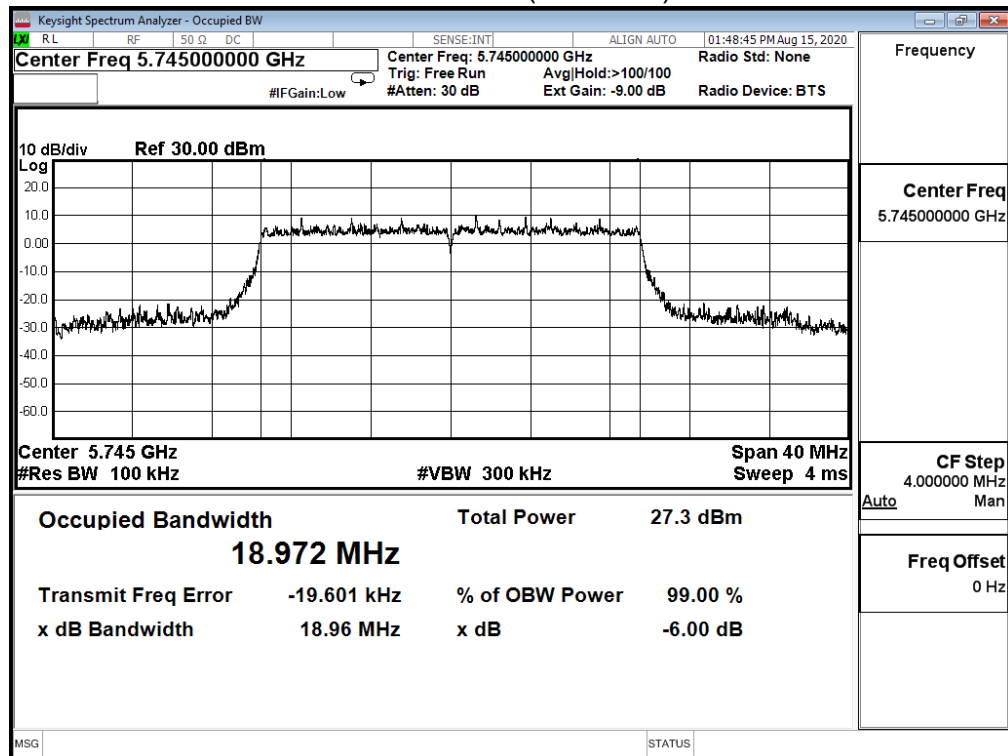


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

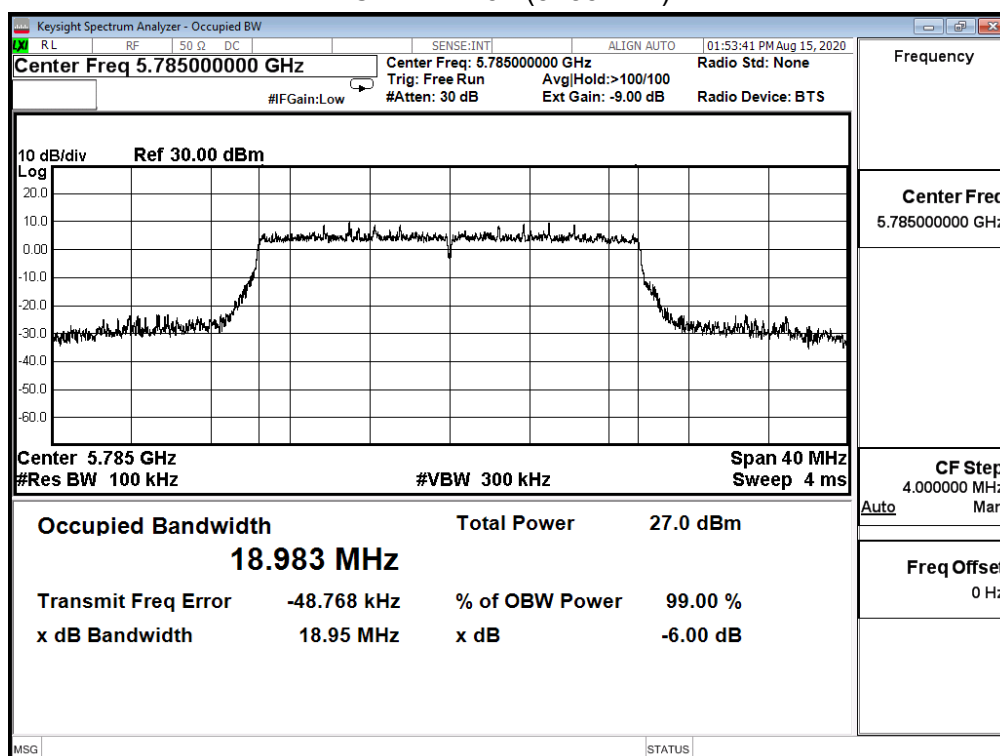
IEEE 802.11ax_20M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	18.960	>0.5	Pass
157	5785	18.950	>0.5	Pass
165	5825	18.800	>0.5	Pass

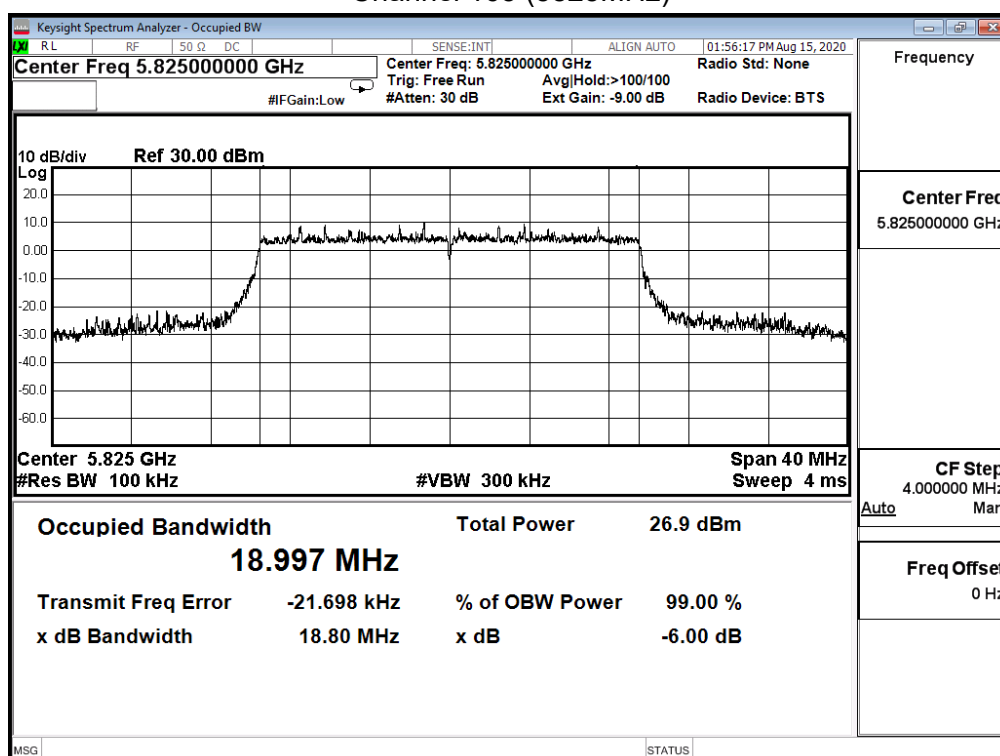
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

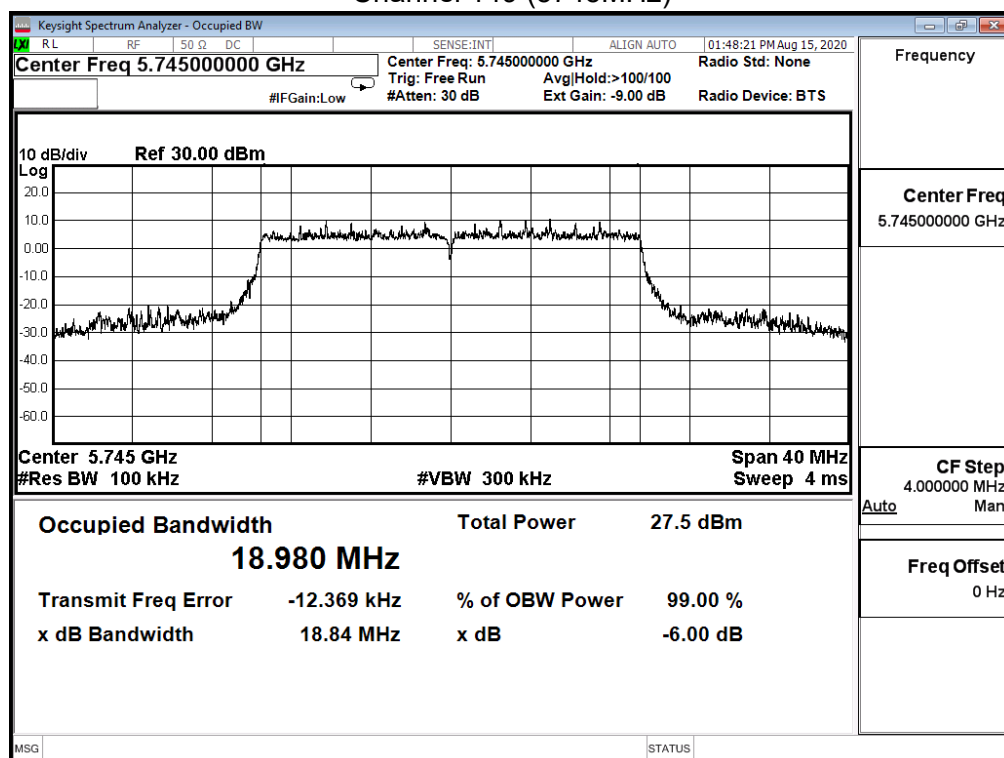


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

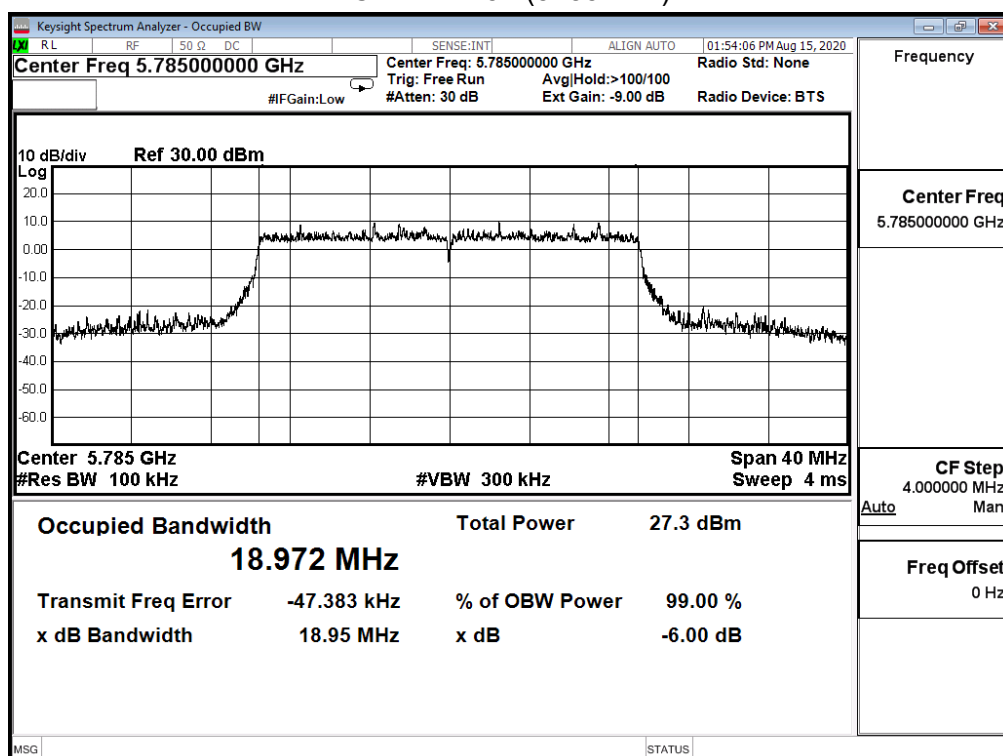
IEEE 802.11ax_20M(ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	18.840	>0.5	Pass
157	5785	18.950	>0.5	Pass
165	5825	18.960	>0.5	Pass

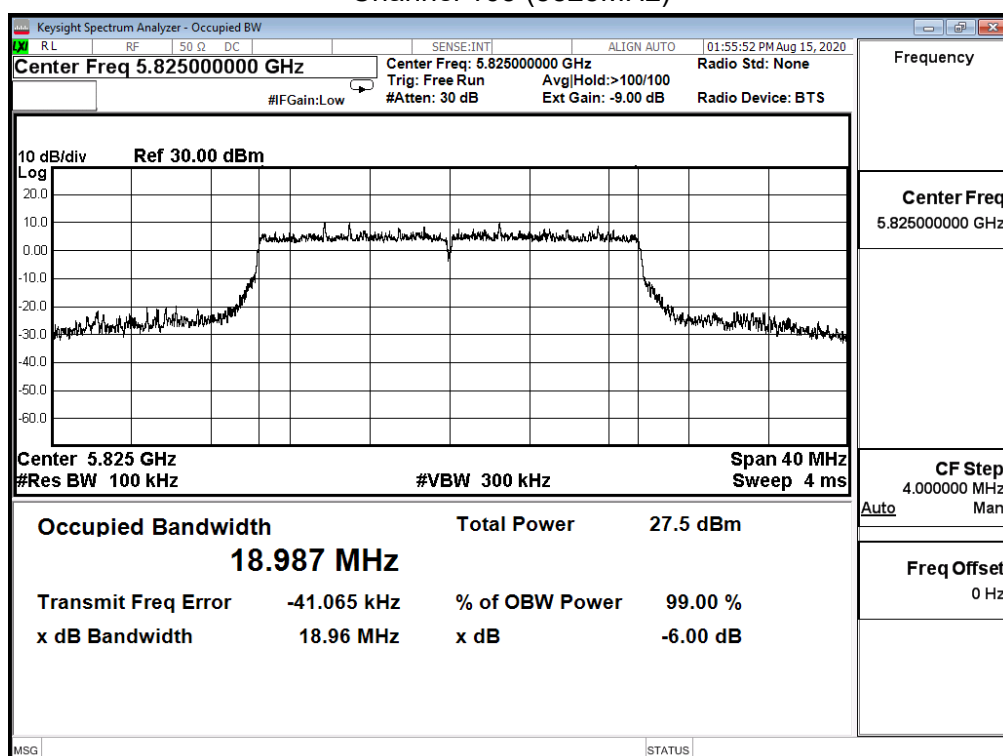
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

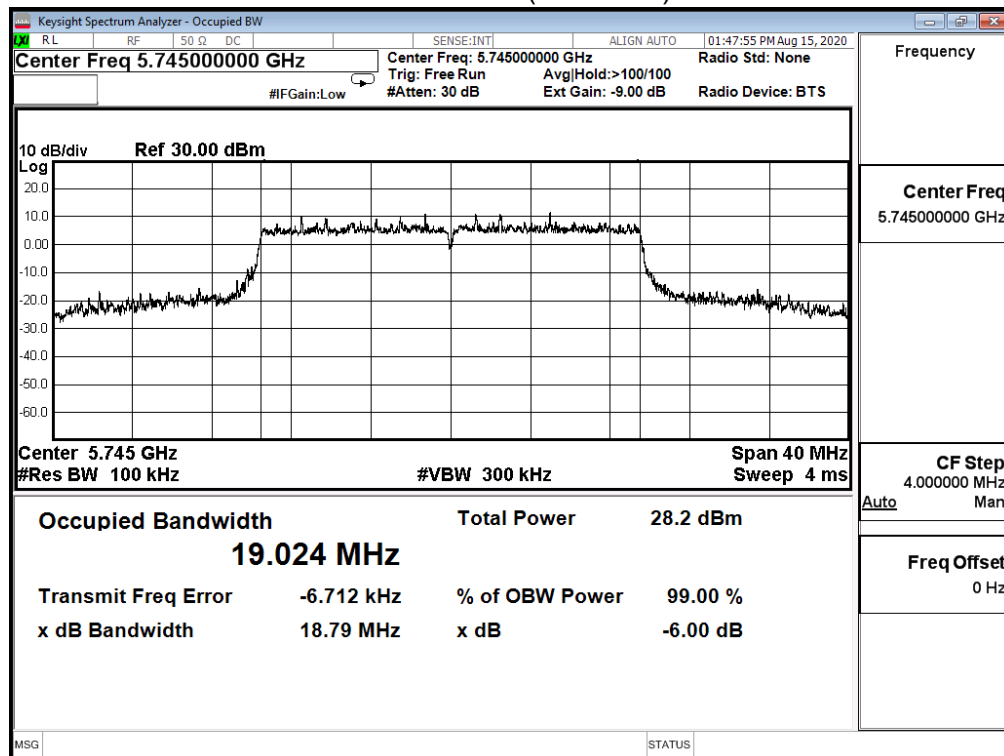


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

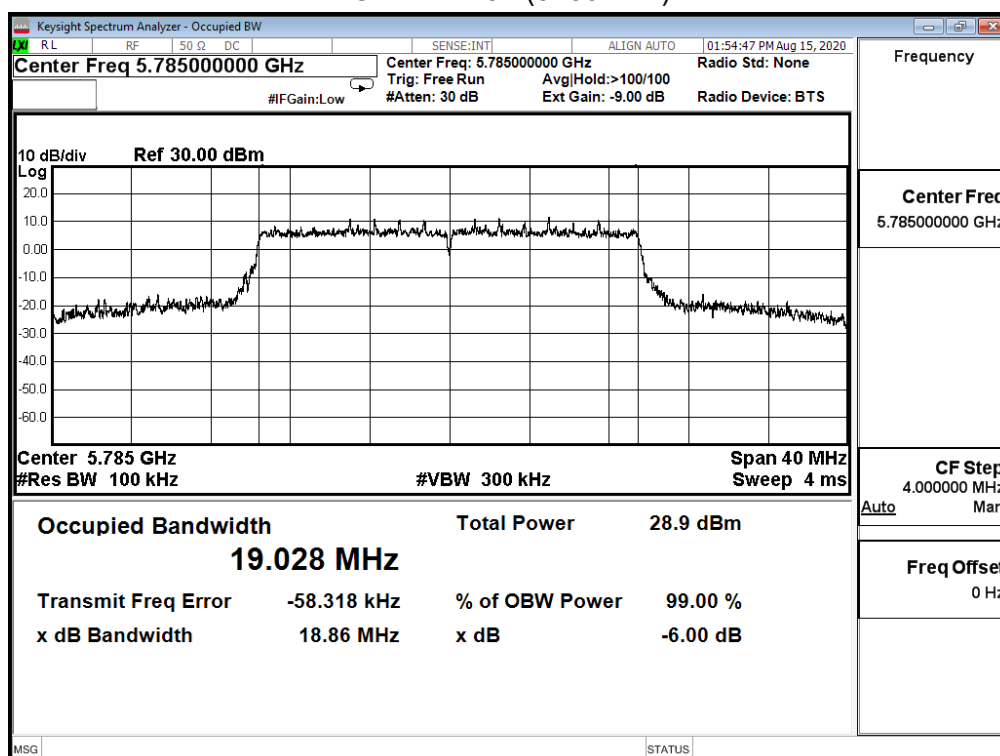
IEEE 802.11ax_20M(ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
149	5745	18.790	>0.5	Pass
157	5785	18.860	>0.5	Pass
165	5825	18.950	>0.5	Pass

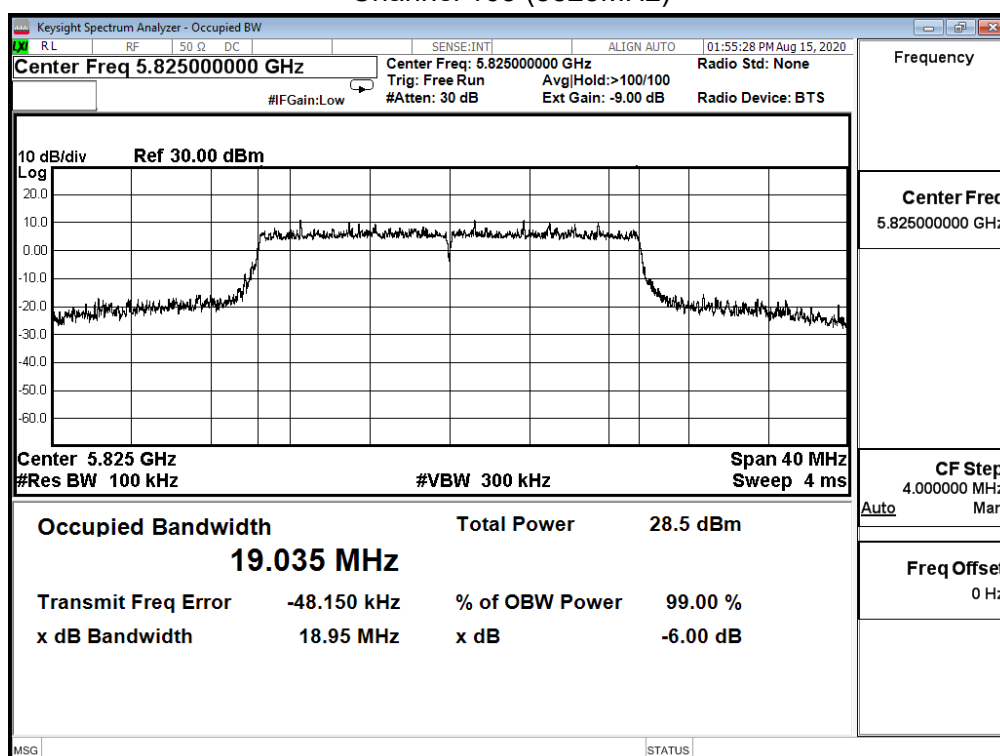
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

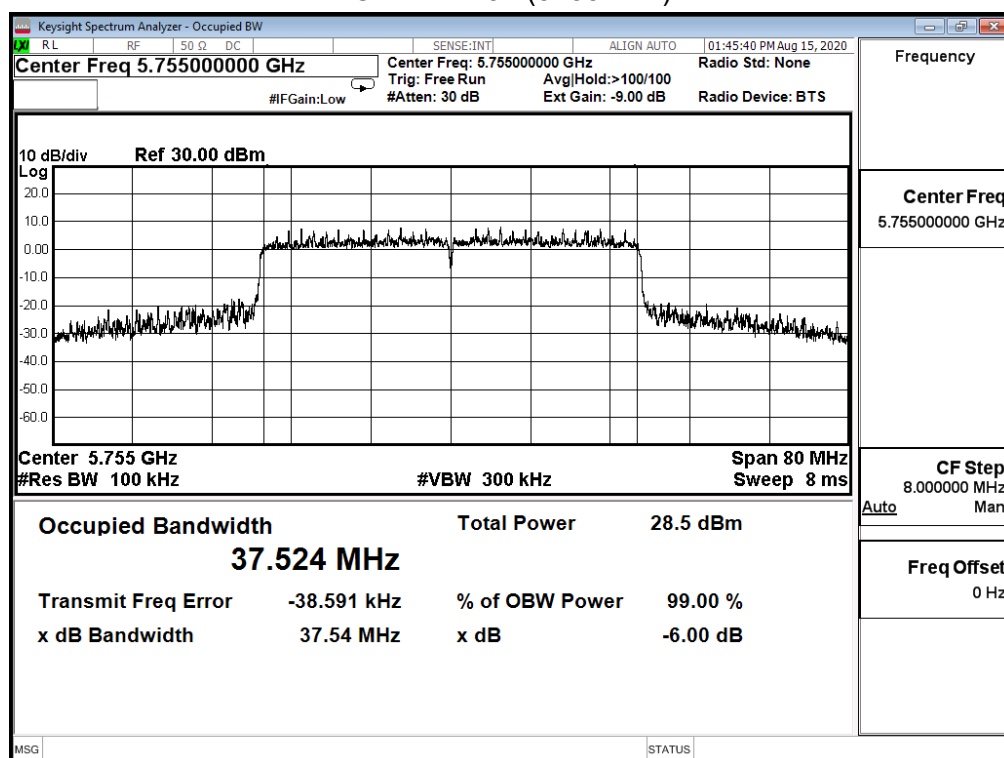


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

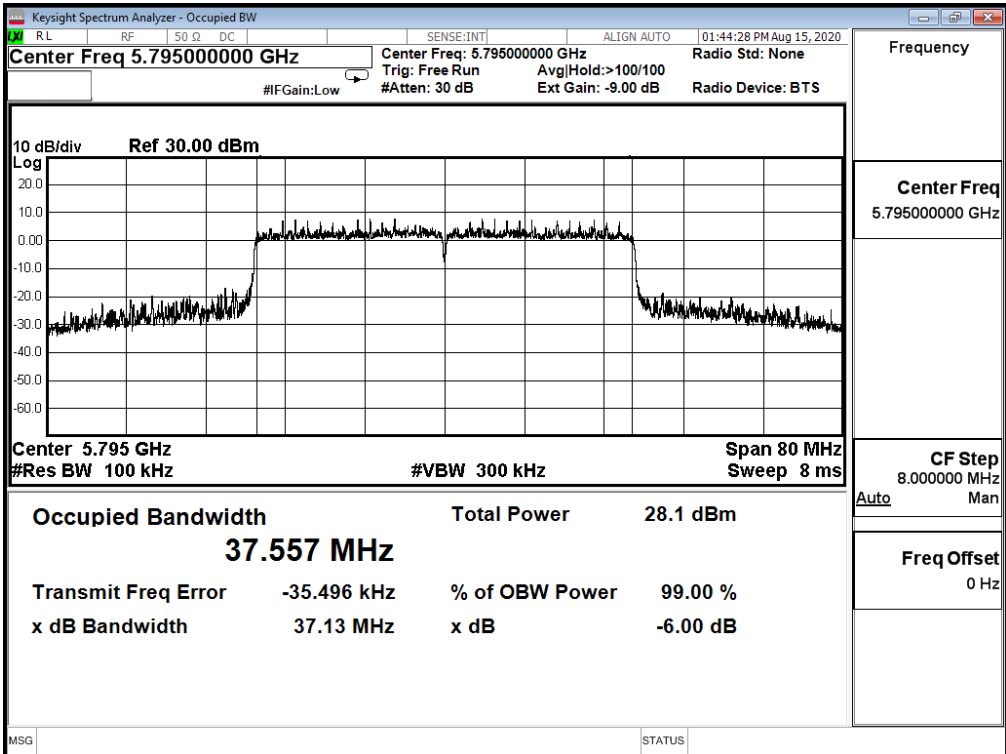
IEEE 802.11ax_40M(ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	37.540	>0.5	Pass
159	5795	37.130	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

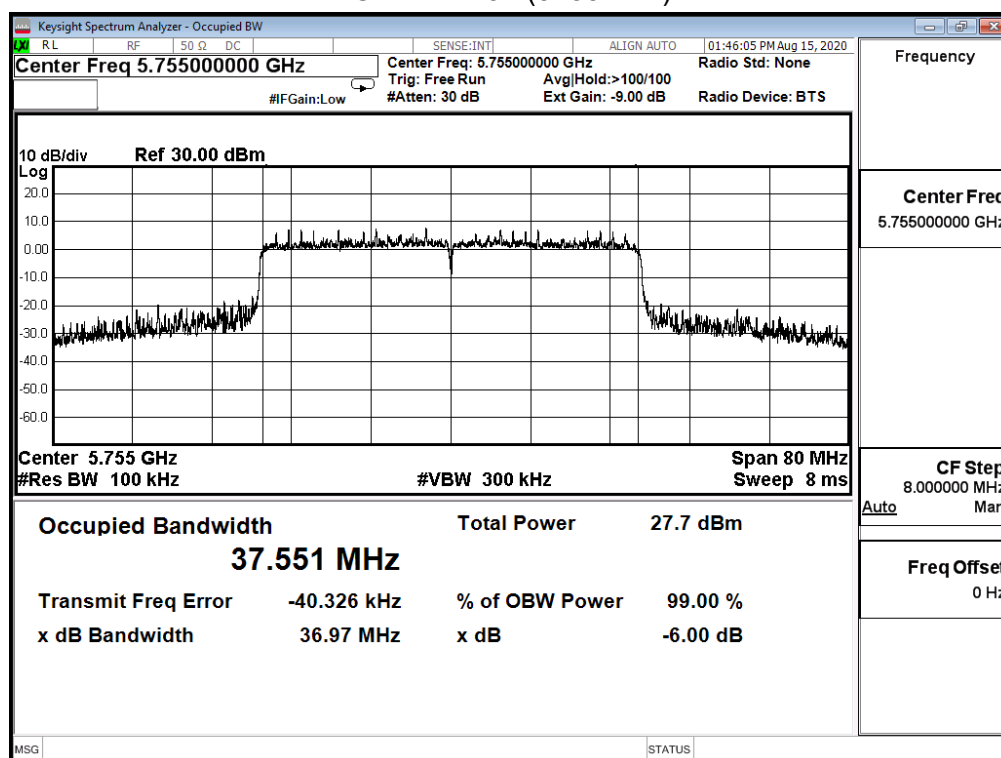


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

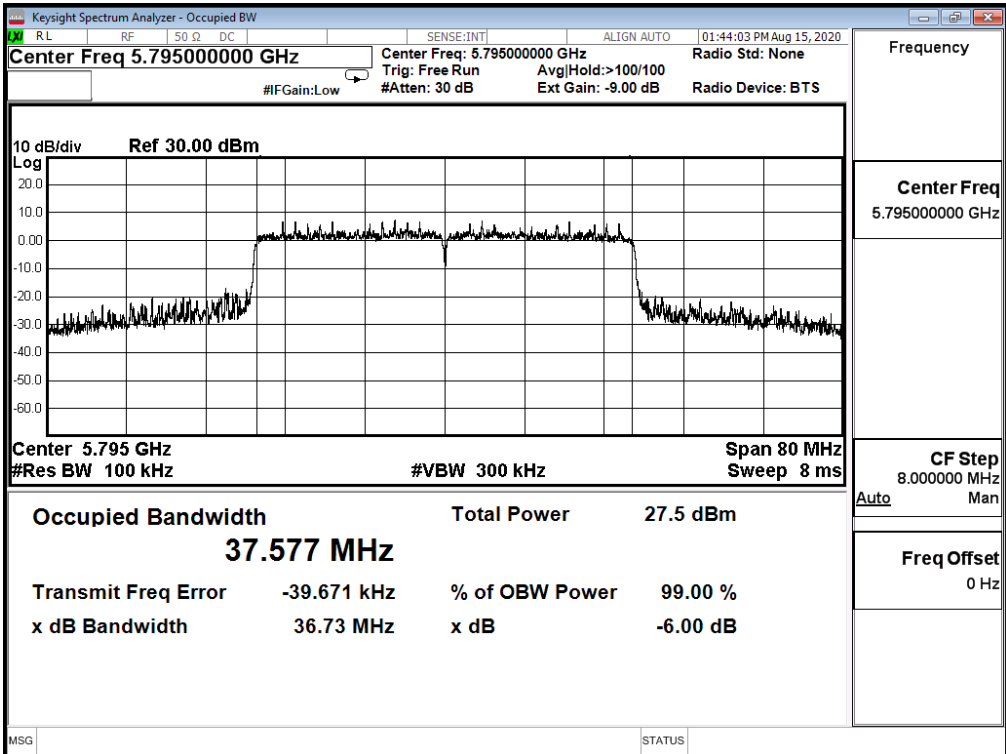
IEEE 802.11ax_40M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	36.970	>0.5	Pass
159	5795	36.730	>0.5	Pass

Channel 151 (5755MHz)



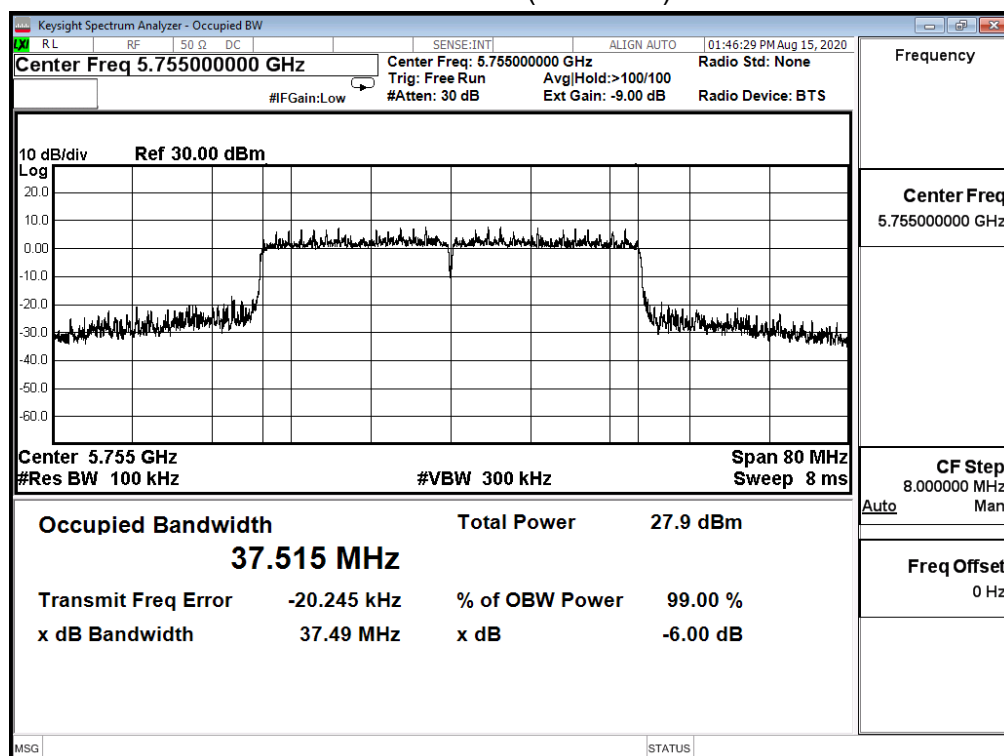
Channel 159 (5795MHz)



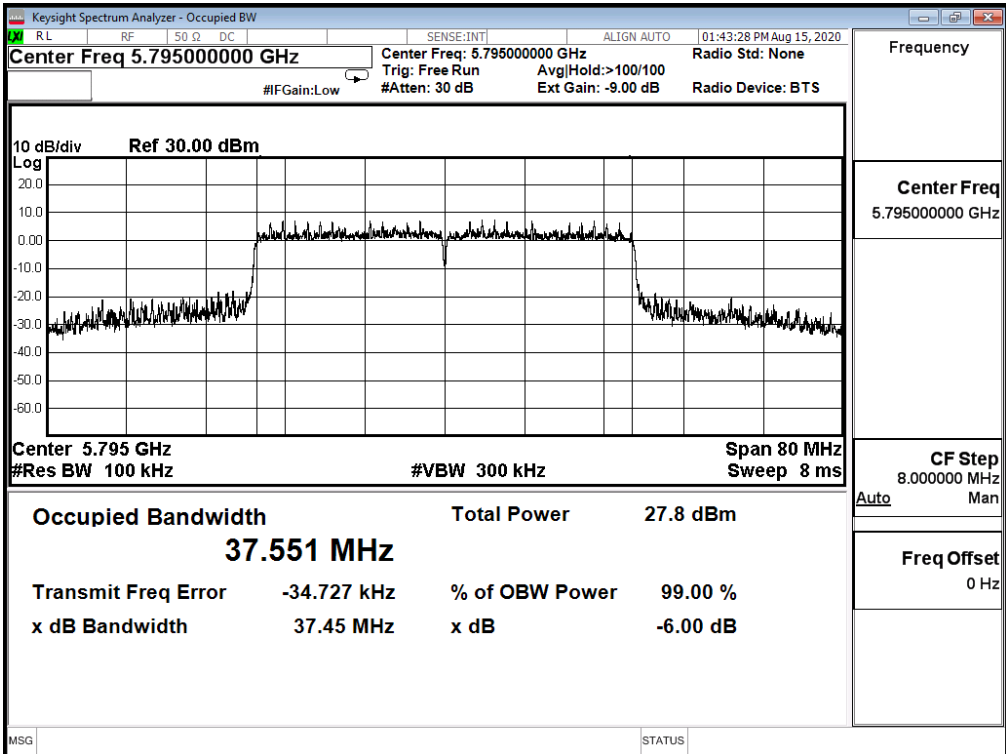
Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_40M(ANT 2)				
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	37.490	>0.5	Pass
159	5795	37.450	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

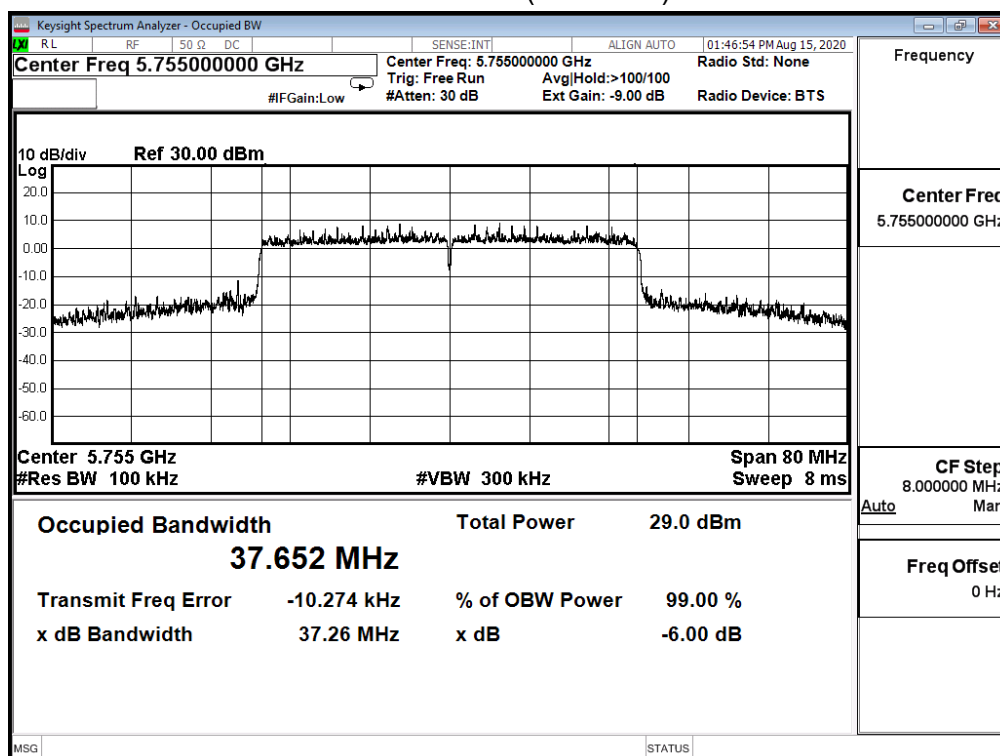


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

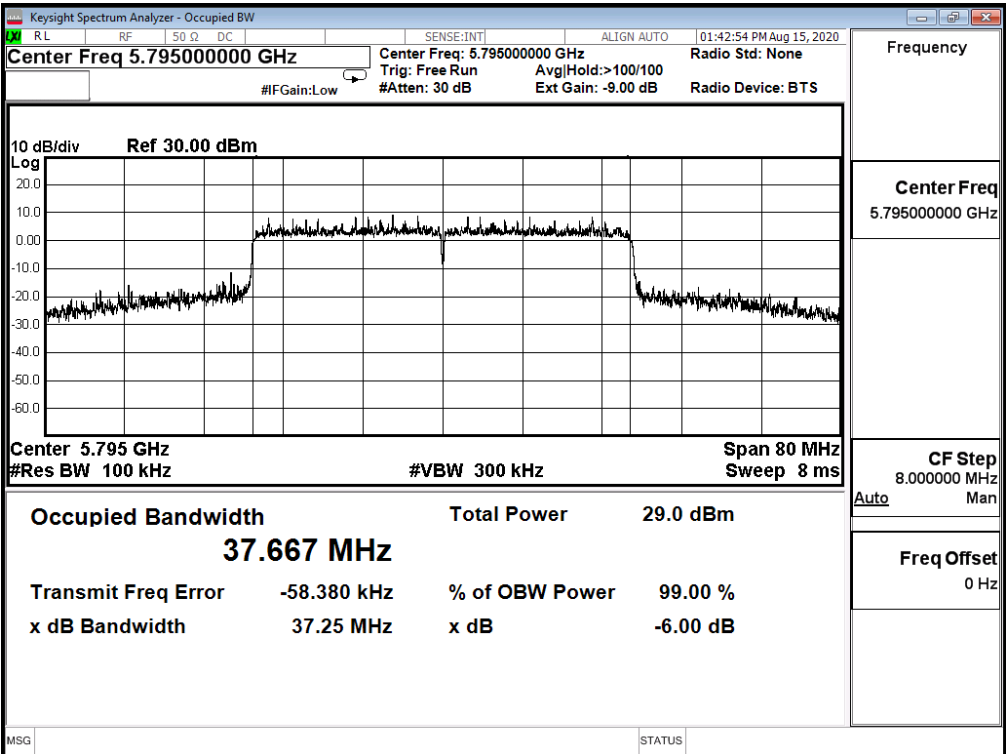
IEEE 802.11ax_40M(ANT 3)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
151	5755	37.260	>0.5	Pass
159	5795	37.250	>0.5	Pass

Channel 151 (5755MHz)



Channel 159 (5795MHz)

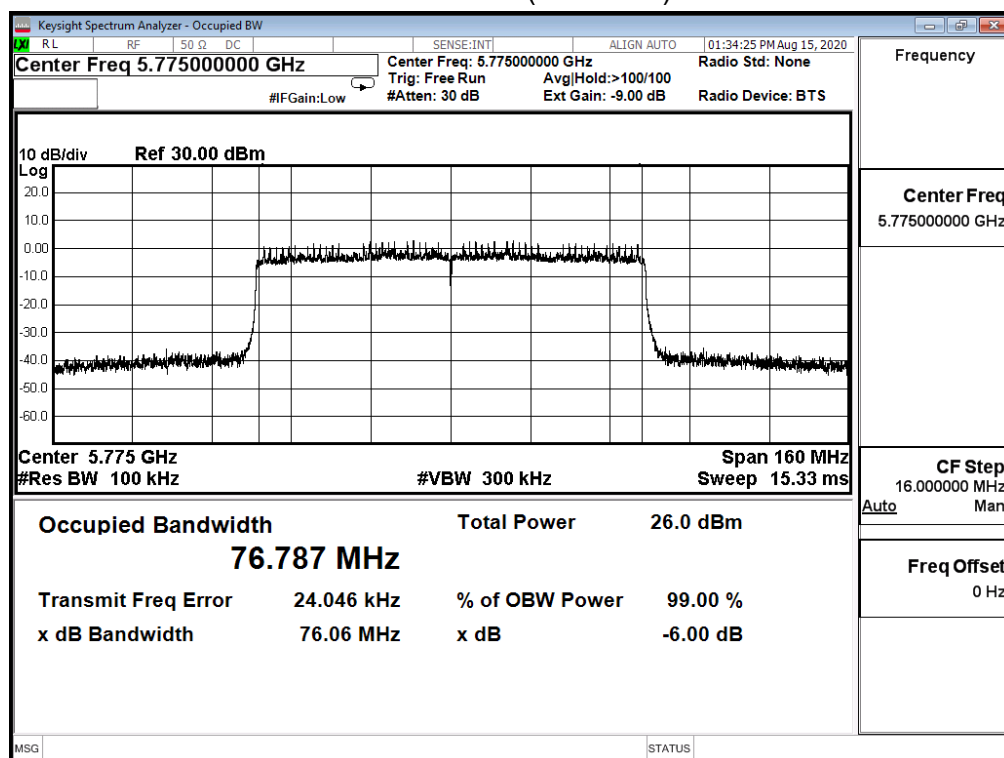


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 0)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	76.060	>0.5	Pass

Channel 155 (5775MHz)

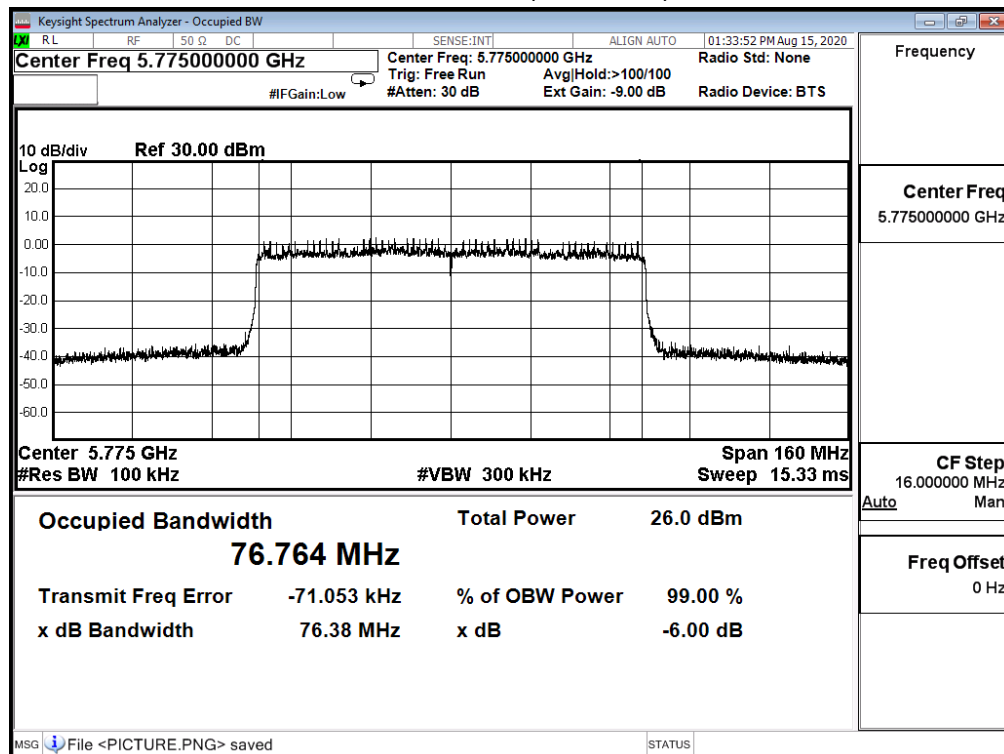


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 1)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	76.380	>0.5	Pass

Channel 155 (5775MHz)

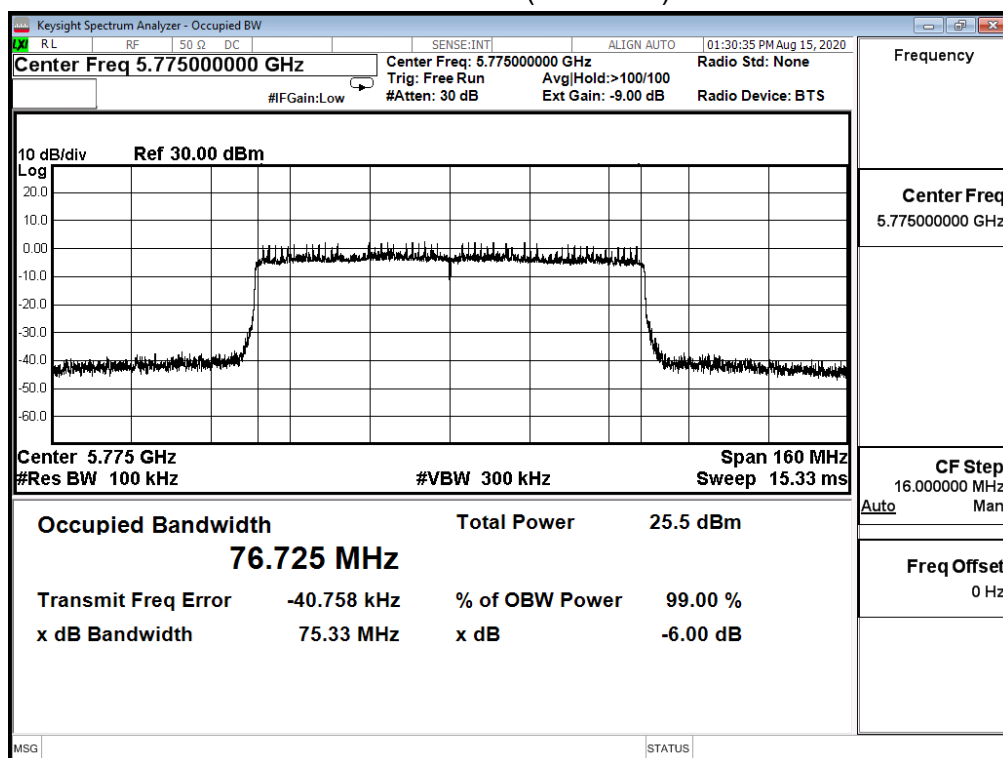


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 2)

Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.330	>0.5	Pass

Channel 155 (5775MHz)

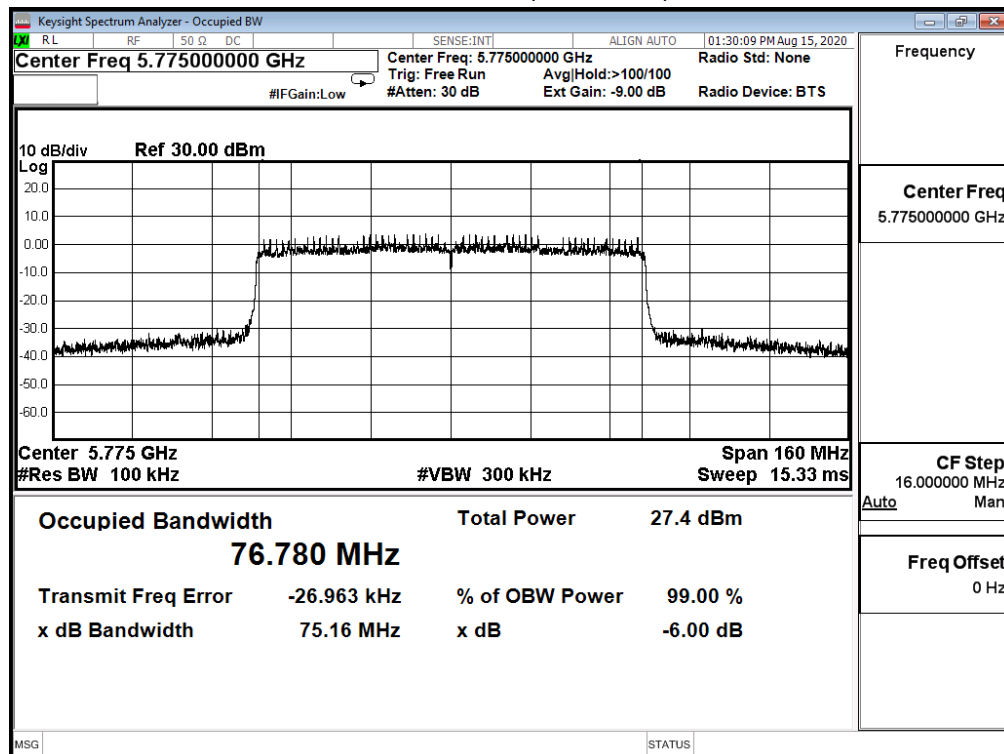


Product	FiberGateway		
Test Item	DTS Bandwidth		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/15	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	55.0%

IEEE 802.11ax_80M(ANT 3)

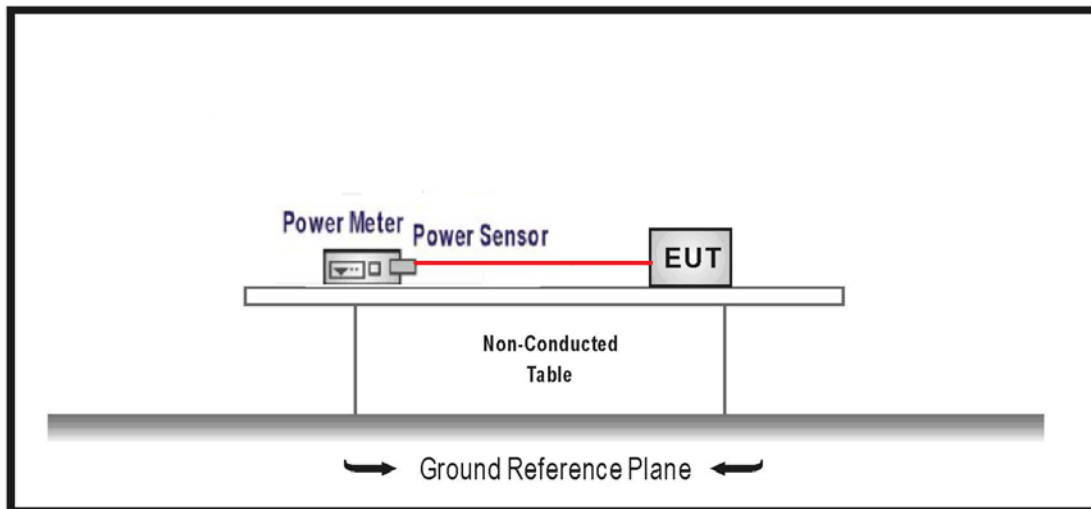
Channel No.	Frequency (MHz)	Measure Value (MHz)	Limit (MHz)	Result
155	5775	75.160	>0.5	Pass

Channel 155 (5775MHz)



4. Maximum conducted output power

4.1. Test Setup



4.2. Limits

1. For the band 5.15-5.25 GHz, the Maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For 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 provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. 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. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the Maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum conducted output power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 for compliance to FCC 47CFR Subpart E requirements. The Method PM-G of the Maximum conducted output power was used.

Measurements may be performed 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.

4.4. Test Result

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11a

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)				Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	
36	5180	18.320	18.420	18.360	19.480	≤ 30.000
44	5220	18.080	18.320	17.820	19.010	≤ 30.000
48	5240	18.230	18.120	18.000	18.920	≤ 30.000

The worst emission of data rate is 6 Mbps.

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)				Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	
149	5745	23.690	23.760	23.740	24.420	≤ 30.000
157	5785	23.860	23.390	23.420	24.680	≤ 30.000
165	5825	23.880	23.410	23.590	24.770	≤ 30.000

The worst emission of data rate is 6 Mbps.

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (20MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
36	5180	18.220	18.310	18.270	19.480	24.624	≤ 30.000
44	5220	18.320	18.140	18.040	19.000	24.412	≤ 30.000
48	5240	18.230	18.190	17.770	18.940	24.324	≤ 30.000

The worst emission of data rate is MCS0

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
149	5745	23.880	23.390	23.670	24.410	29.874	≤ 30.000
157	5785	23.850	23.320	23.640	24.750	29.944	≤ 30.000
165	5825	23.930	23.410	23.610	24.790	29.989	≤ 30.000

The worst emission of data rate is MCS0

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (40MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
38	5190	15.360	15.420	14.970	16.010	21.477	≤ 30.000
46	5230	21.010	21.320	20.910	22.270	27.432	≤ 30.000

The worst emission of data rate is MCS0

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
151	5755	22.510	22.350	22.380	23.410	28.706	≤ 30.000
159	5795	23.510	23.120	23.000	24.380	29.558	≤ 30.000

The worst emission of data rate is MCS0

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (80MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
42	5210	14.480	14.620	14.430	15.400	20.771	≤ 30.000

The worst emission of data rate is MCS0

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
155	5775	19.070	18.780	18.810	20.070	25.236	≤ 30.000

The worst emission of data rate is MCS0

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (20MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
36	5180	18.820	18.550	18.480	19.630	24.915	≤ 30.000
44	5220	18.480	18.230	18.400	19.240	24.626	≤ 30.000
48	5240	18.500	18.340	18.410	19.220	24.653	≤ 30.000

The worst emission of data rate is MCS0

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
149	5745	23.120	22.660	23.000	23.920	29.221	≤ 30.000
157	5785	23.170	22.680	22.840	24.020	29.230	≤ 30.000
165	5825	23.200	22.980	23.080	24.280	29.438	≤ 30.000

The worst emission of data rate is MCS0

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (40MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
38	5190	15.720	15.420	15.690	16.300	21.815	≤ 30.000
46	5230	21.220	21.510	21.470	22.420	27.700	≤ 30.000

The worst emission of data rate is MCS0

5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
151	5755	22.610	22.470	22.390	23.360	28.746	≤ 30.000
159	5795	23.630	23.180	23.220	24.520	29.693	≤ 30.000

The worst emission of data rate is MCS0

Product	FiberGateway		
Test Item	Maximum conducted output power		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (80MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
42	5210	14.450	14.870	14.530	15.300	20.821	≤ 30.000

The worst emission of data rate is MCS0

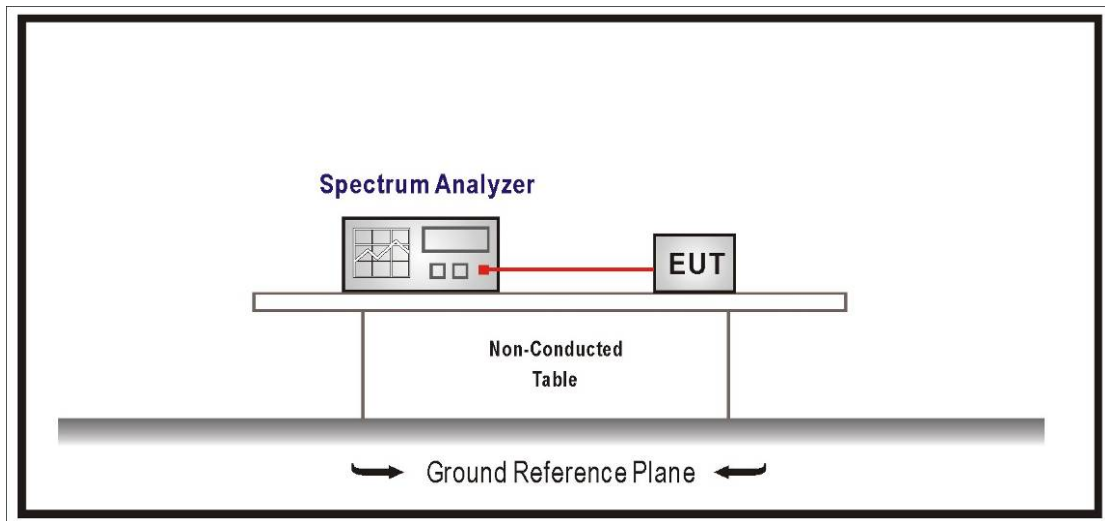
5GHz UNII 3:

Channel No.	Frequency (MHz)	Max. Conducted Output Power (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
155	5775	20.570	20.190	20.150	21.450	26.643	≤ 30.000

The worst emission of data rate is MCS0

5. Maximum power spectral density

5.1. Test Setup



5.2. Limits

1. For the band 5.15-5.25 GHz, the Maximum power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the Maximum power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the Maximum power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the Maximum power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi..

5.3. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033 D02 v02r01 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.4. Test Result

Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11a

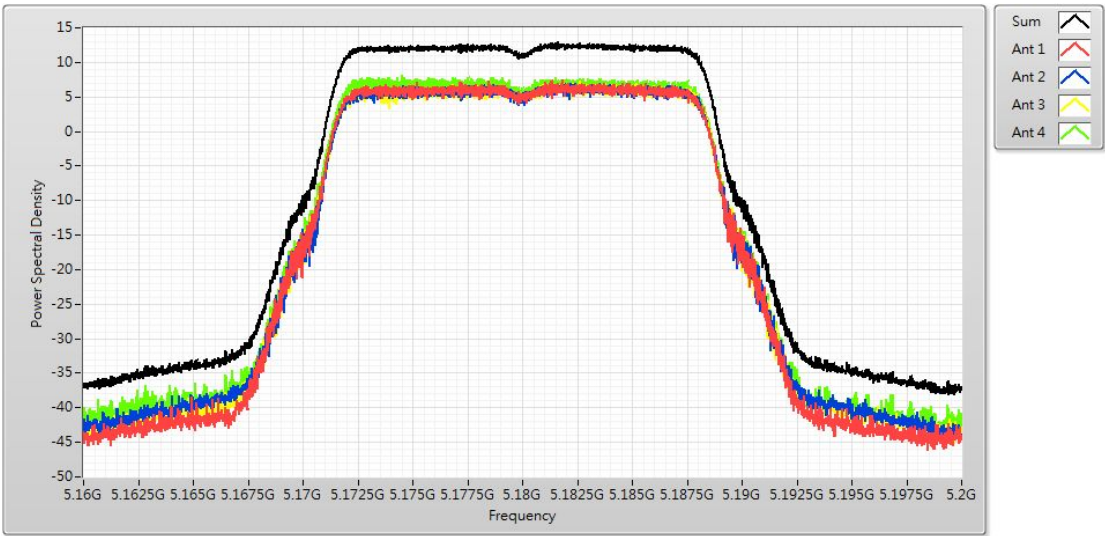
5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)				Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	
36	5180	7.480	7.040	7.320	8.070	≤ 13.279
44	5220	7.020	7.430	6.830	7.840	≤ 13.279
48	5240	7.160	6.960	6.910	7.740	≤ 13.279

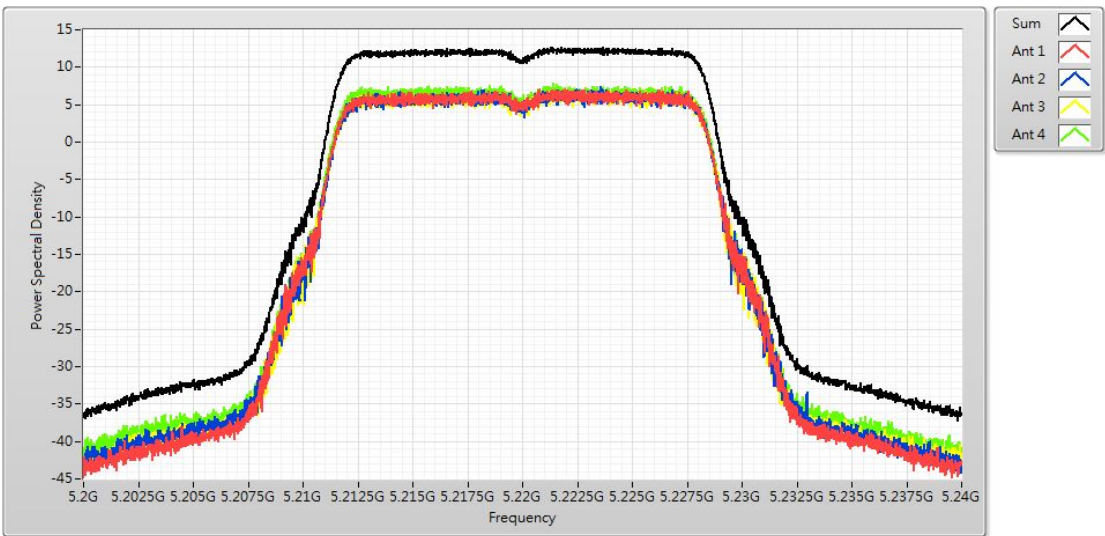
5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)				Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	
149	5745	10.110	9.460	9.350	10.100	≤ 25.279
157	5785	9.710	9.050	9.210	10.410	≤ 25.279
165	5825	10.480	9.580	9.590	10.640	≤ 25.279

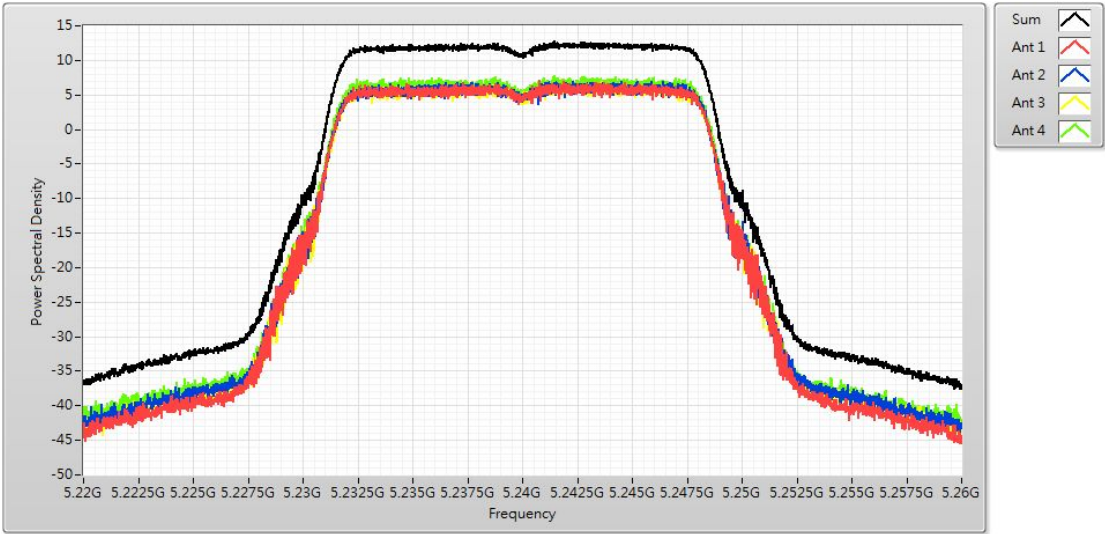
Channel 36 (5180MHz)



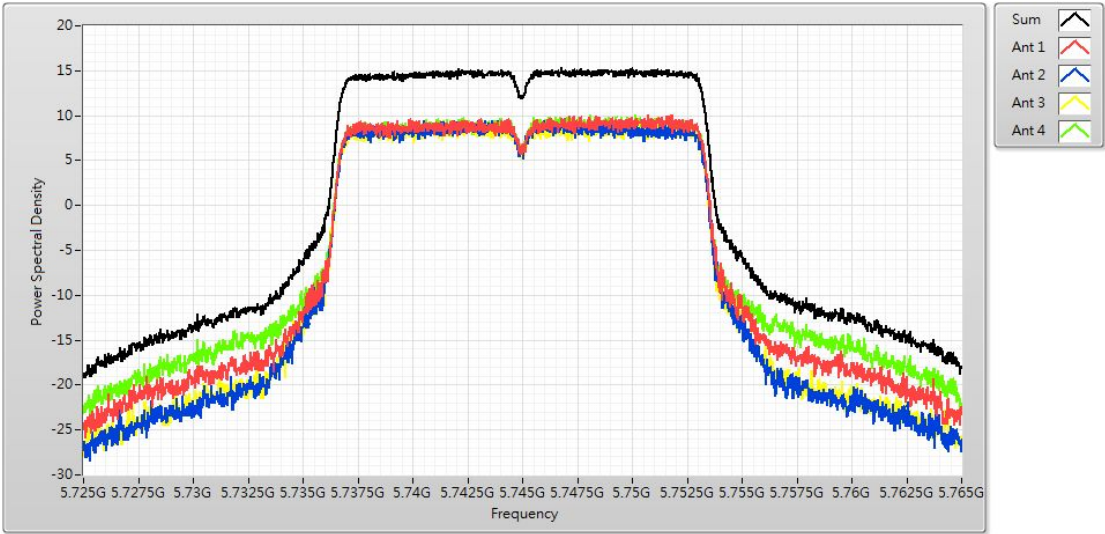
Channel 44 (5220MHz)



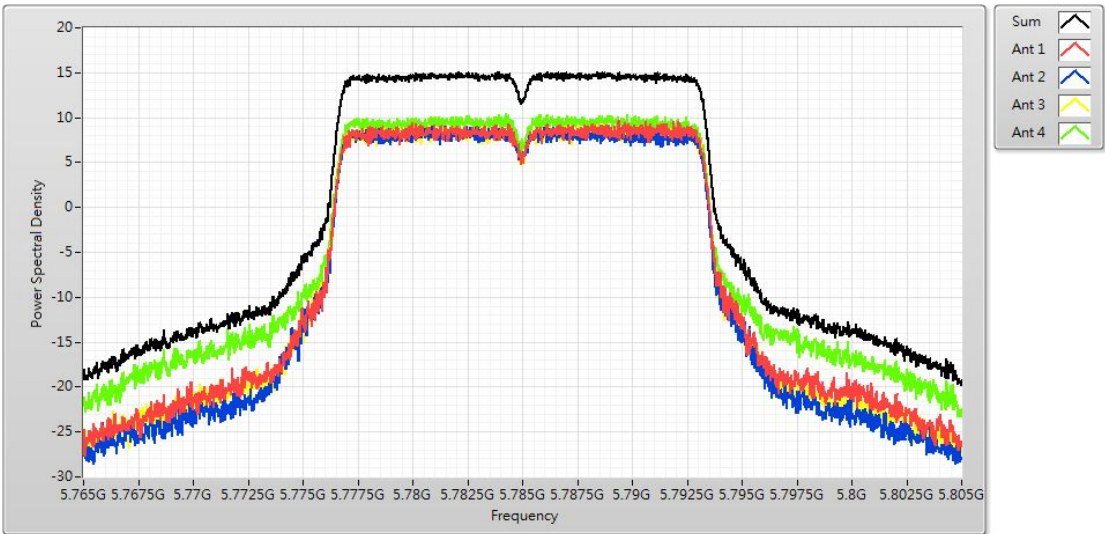
Channel 48 (5240MHz)



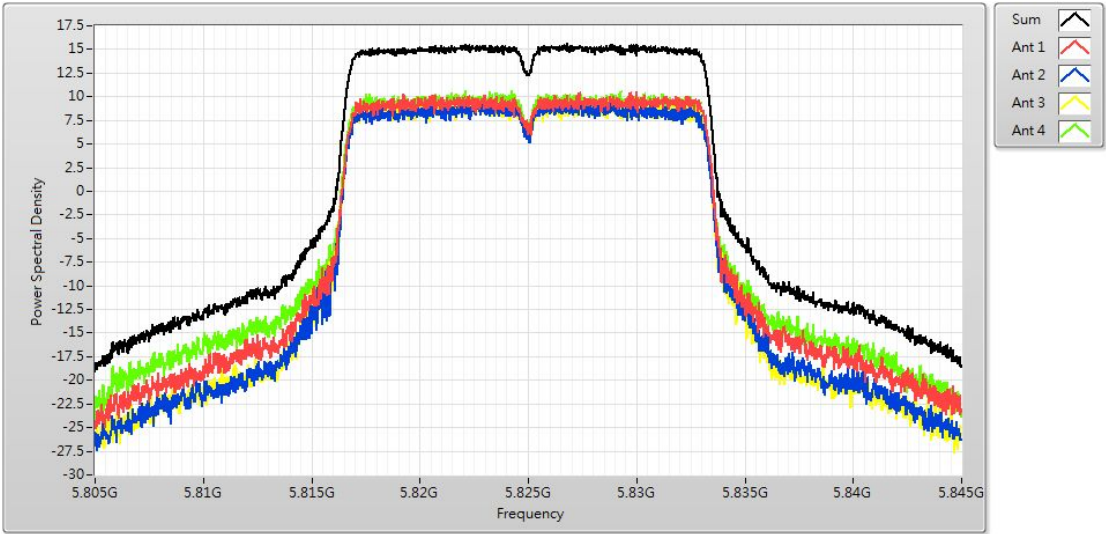
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (20MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
36	5180	6.610	6.820	6.620	8.000	12.710	≤ 13.279
44	5220	6.840	6.760	6.450	7.550	12.390	≤ 13.279
48	5240	6.760	6.690	6.240	7.380	12.320	≤ 13.279

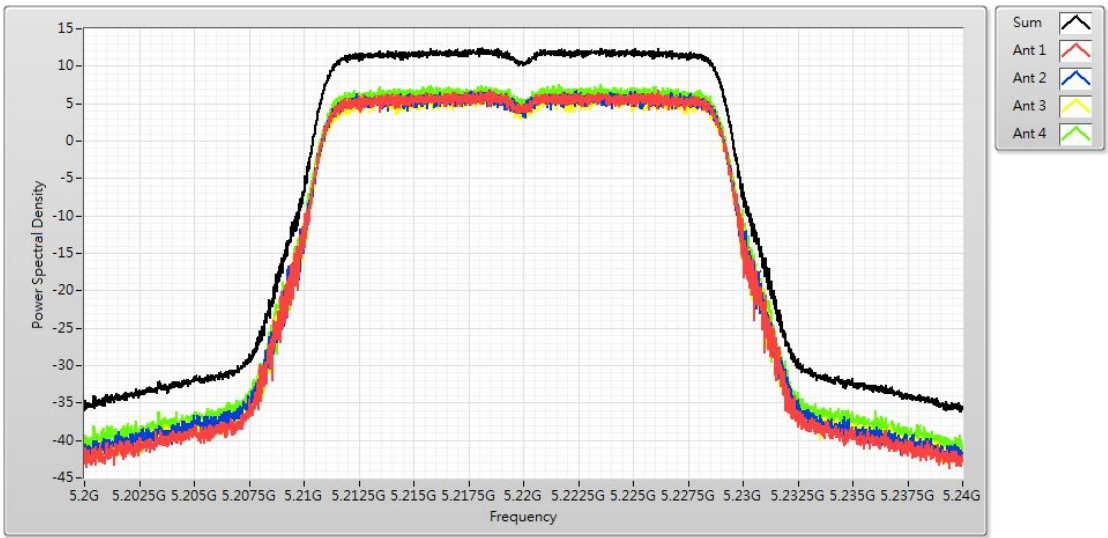
5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
149	5745	9.25	8.760	9.230	9.770	14.690	≤ 25.279
157	5785	9.17	8.730	9.010	10.130	14.730	≤ 25.279
165	5825	10.05	9.560	9.340	10.480	15.100	≤ 25.279

Channel 36 (5180MHz)



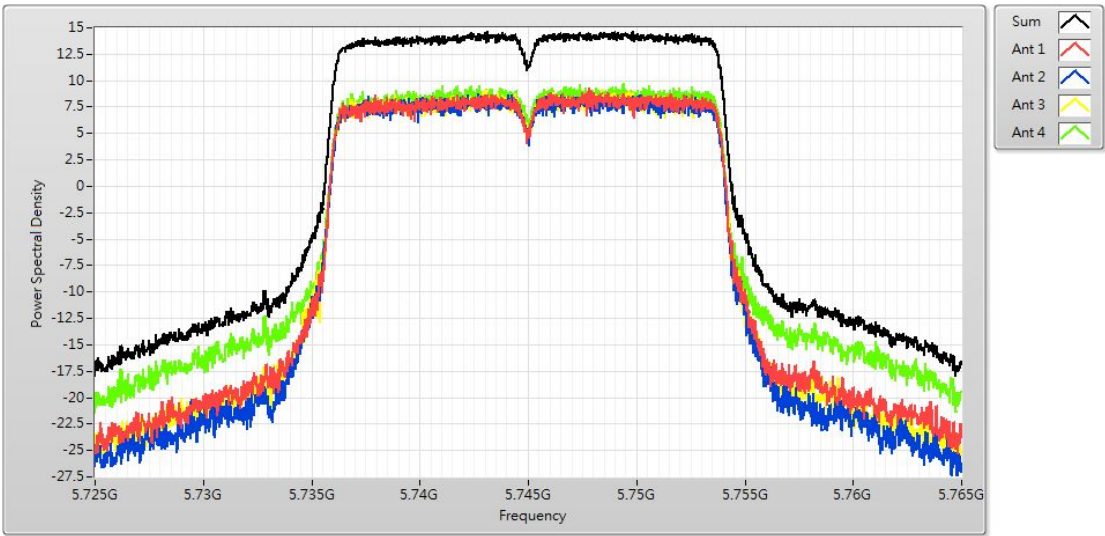
Channel 44 (5220MHz)



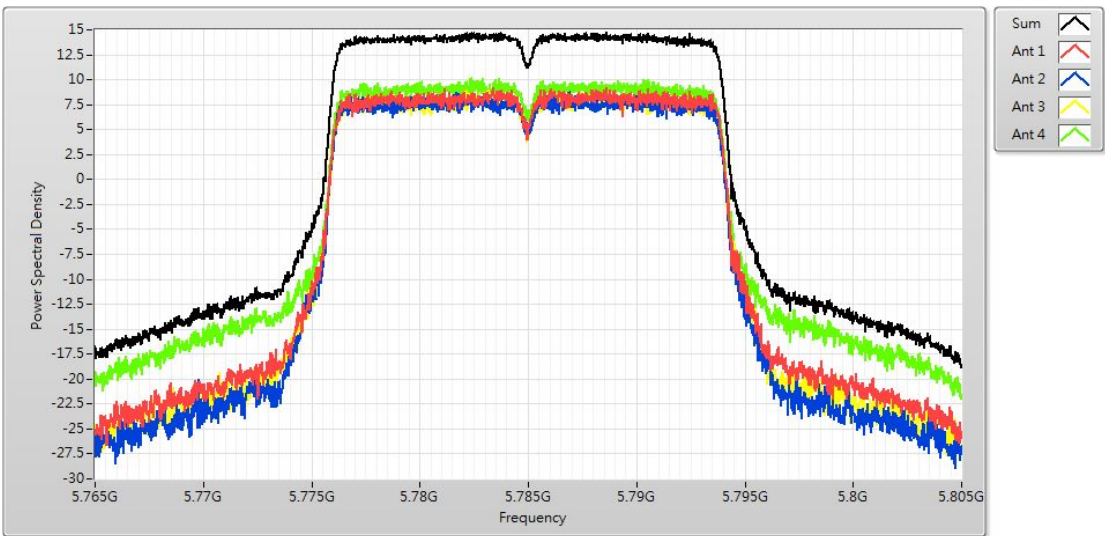
Channel 48 (5240MHz)



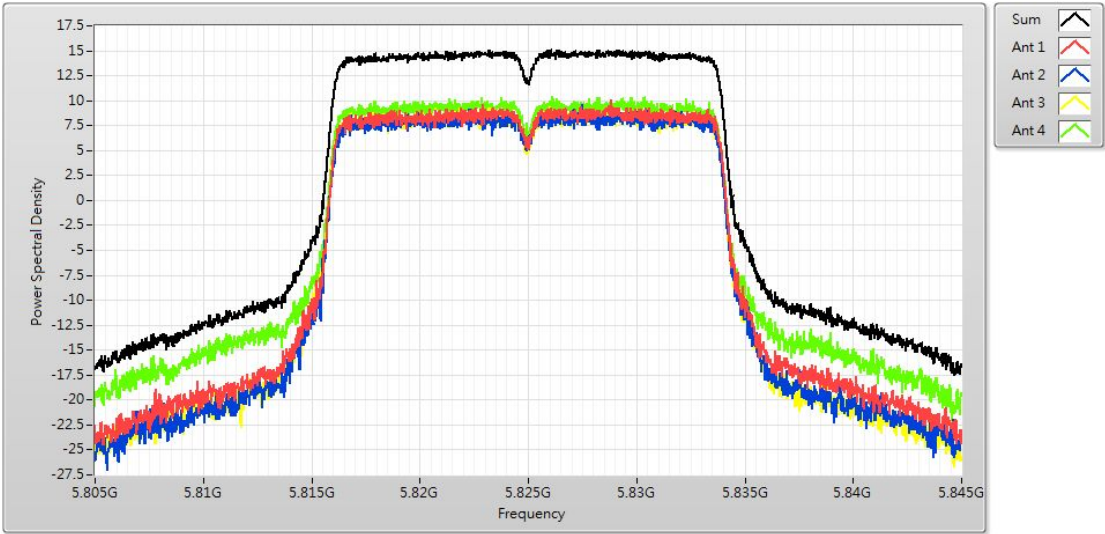
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (40MHz)

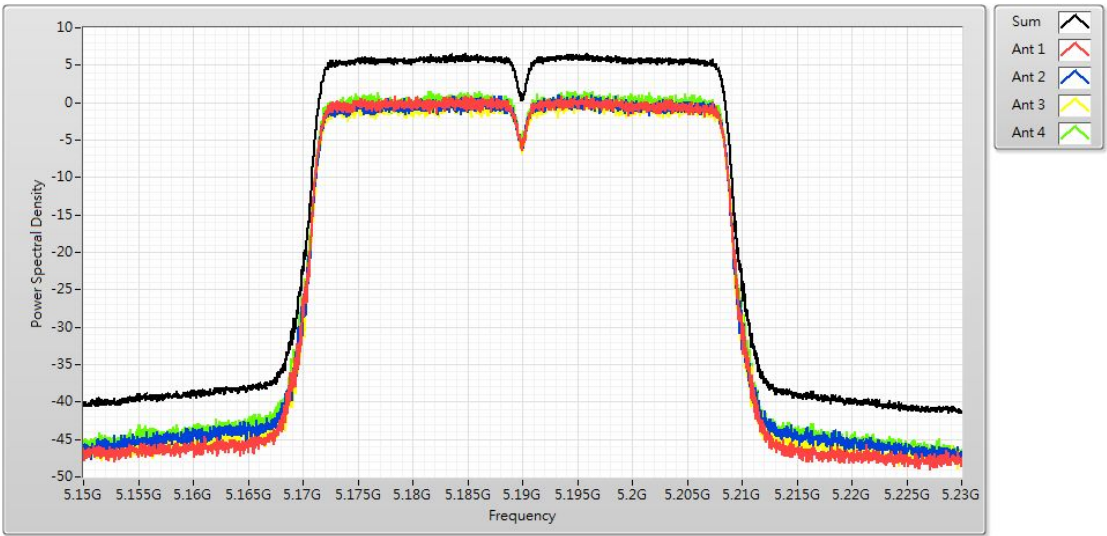
5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
38	5190	0.91	0.990	0.570	1.550	6.620	≤ 13.279
46	5230	6.83	7.170	6.780	7.810	12.520	≤ 13.279

5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
151	5755	4.38	3.980	4.030	5.240	9.780	≤ 25.279
159	5795	5.22	4.860	4.780	6.220	10.790	≤ 25.279

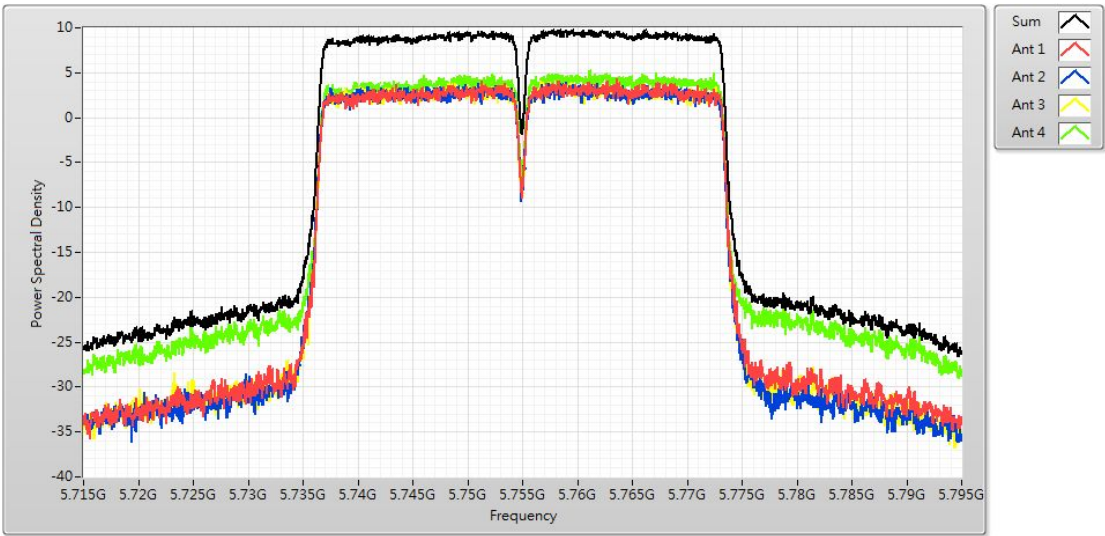
Channel 38 (5190MHz)



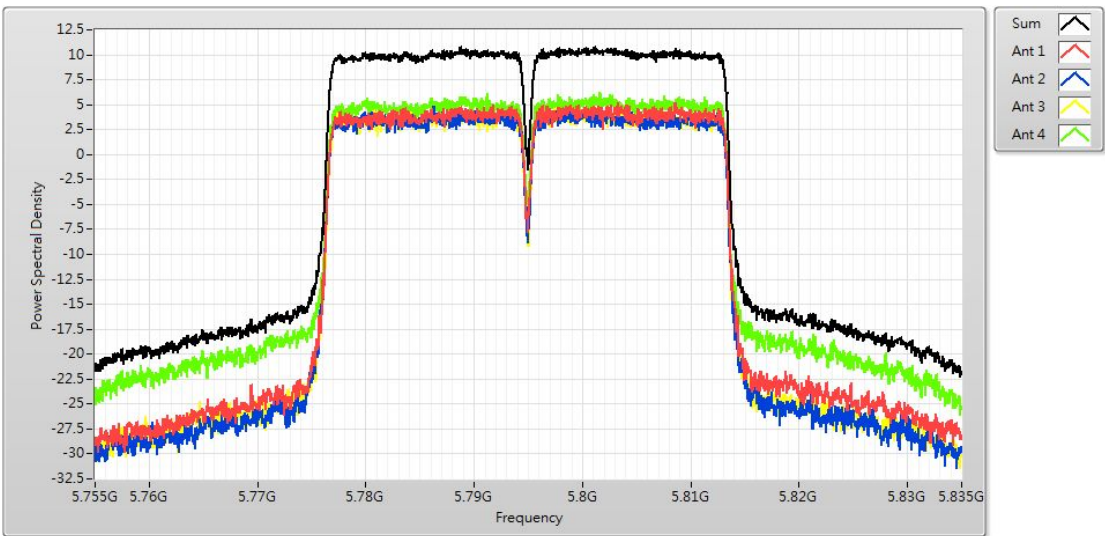
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ac (80MHz)

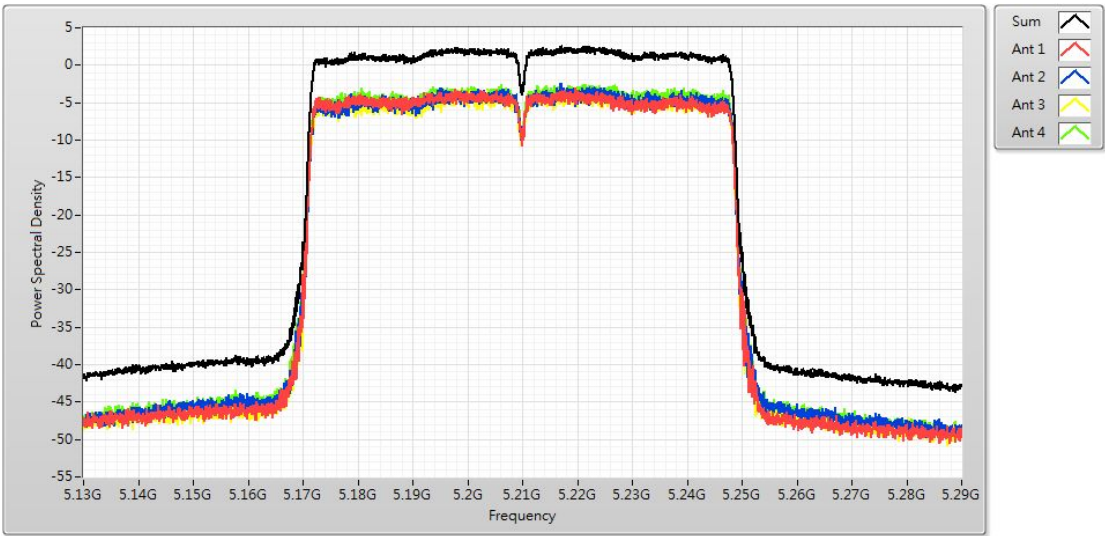
5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
42	5210	-3.100	-2.480	-3.250	-2.580	2.510	≤ 13.279

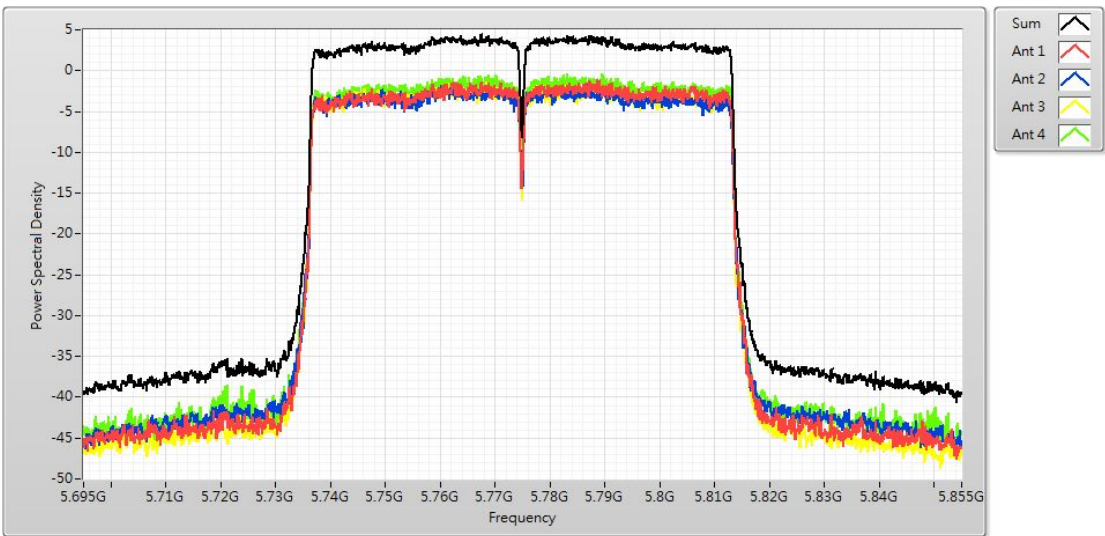
5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
155	5775	-1.150	-1.630	-1.440	-0.370	4.410	≤ 25.279

Channel 42 (5210MHz)



Channel 155 (5775MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (20MHz)

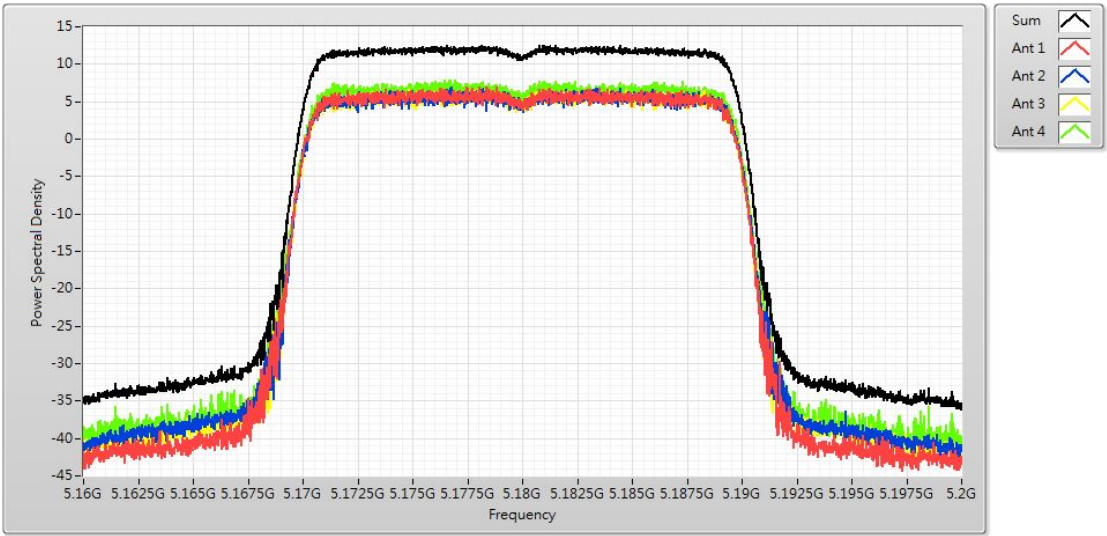
5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
36	5180	6.970	6.910	6.730	7.920	12.520	≤ 13.279
44	5220	7.110	6.710	6.730	7.830	12.460	≤ 13.279
48	5240	6.790	6.610	6.670	7.660	12.400	≤ 13.279

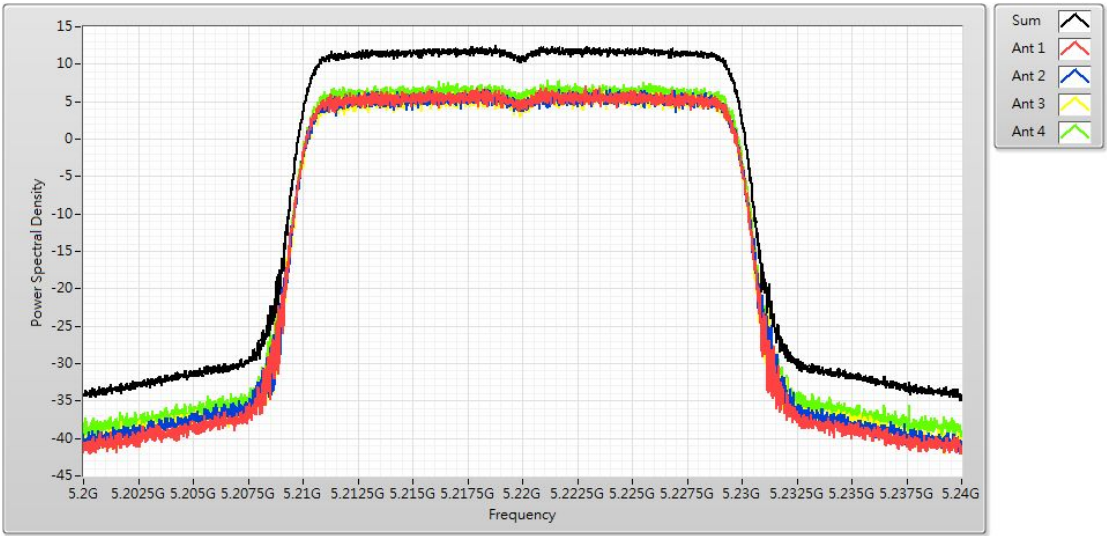
5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
149	5745	8.32	7.930	8.250	9.080	13.890	≤ 25.279
157	5785	8.79	7.990	8.200	9.300	14.150	≤ 25.279
165	5825	9.04	8.800	8.410	9.430	14.300	≤ 25.279

Channel 36 (5180MHz)



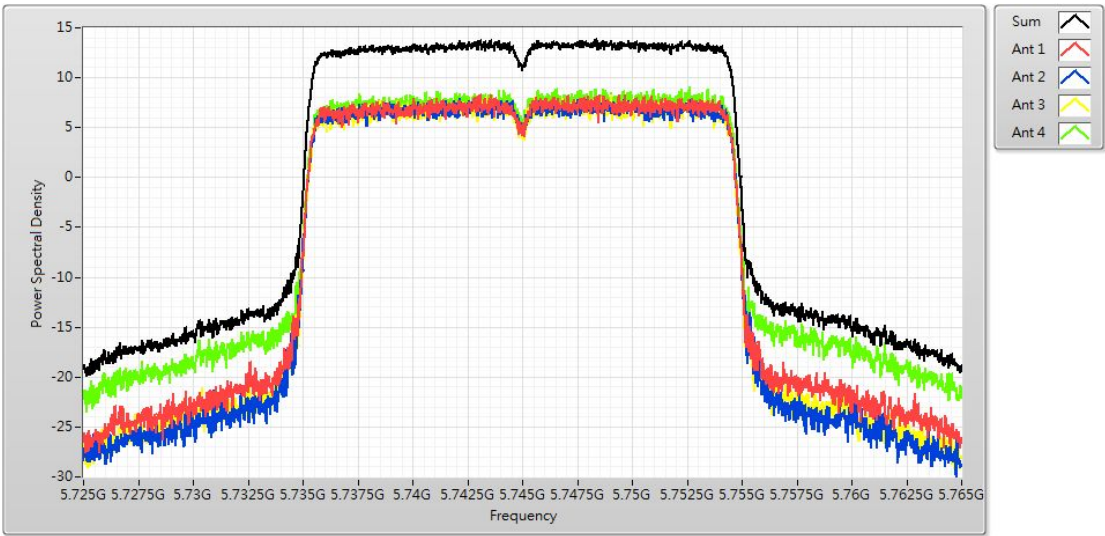
Channel 44 (5220MHz)



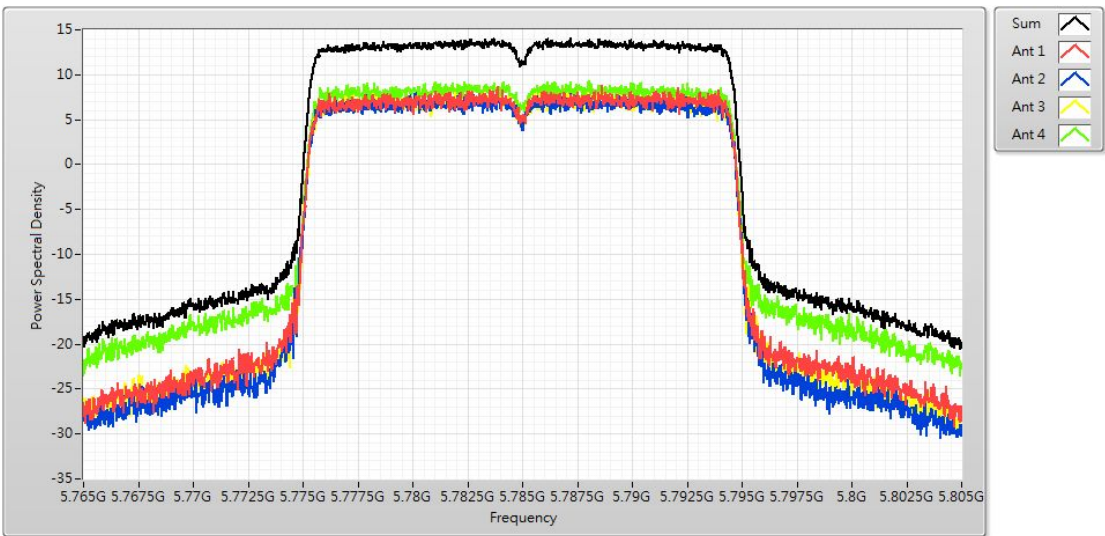
Channel 48 (5240MHz)



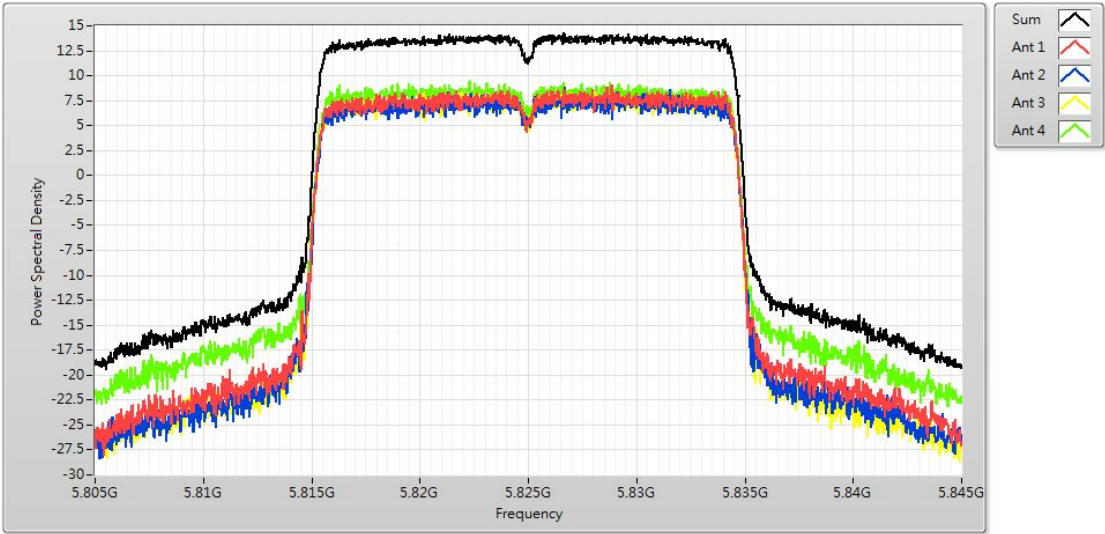
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (40MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
38	5190	1.33	0.960	1.020	1.880	6.760	≤ 13.279
46	5230	6.45	6.860	6.730	7.960	12.520	≤ 13.279

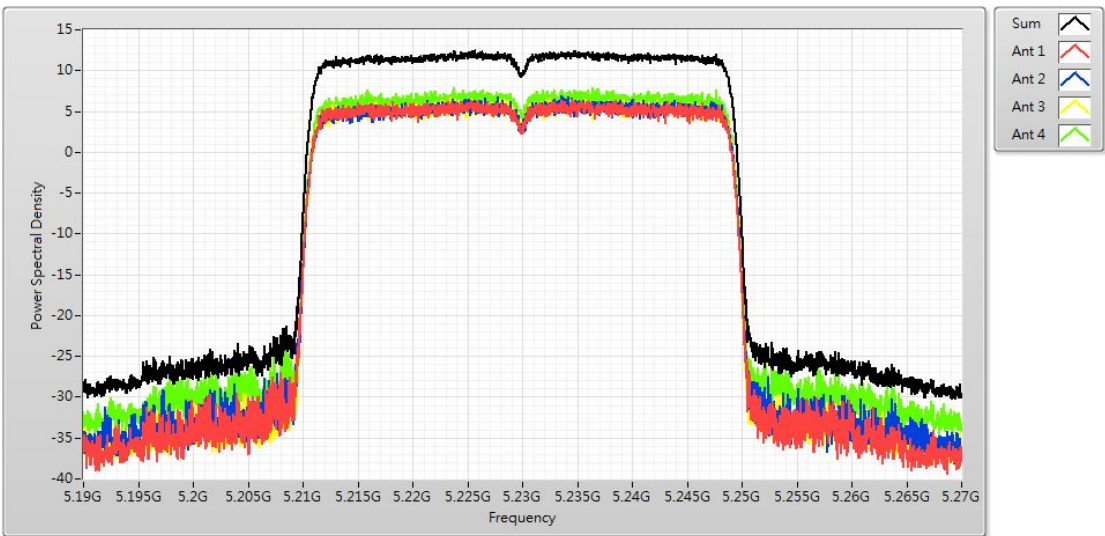
5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
151	5755	4.550	4.230	4.190	5.370	10.090	≤ 25.279
159	5795	5.280	4.830	5.020	6.260	10.900	≤ 25.279

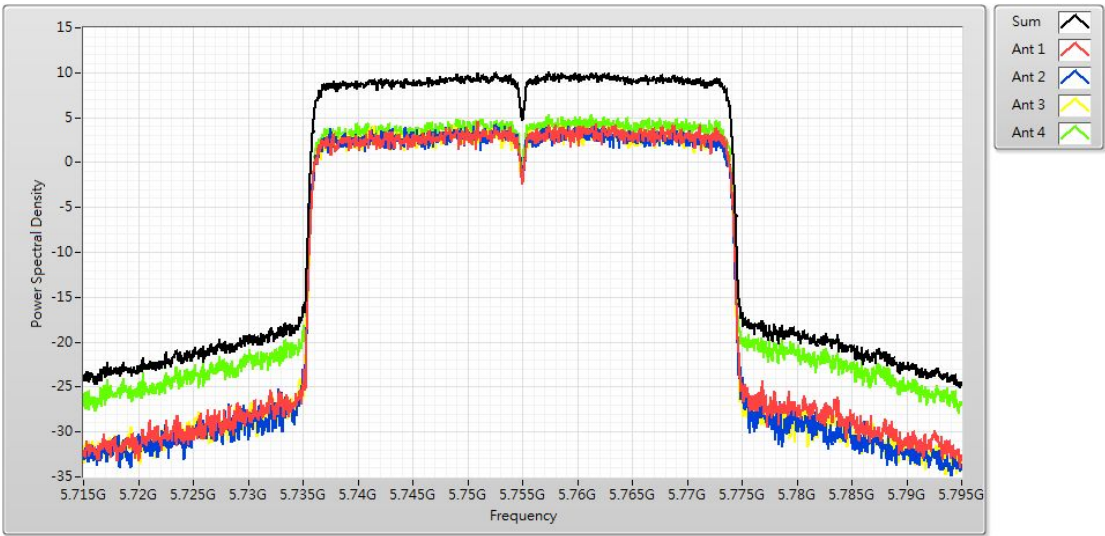
Channel 38 (5190MHz)



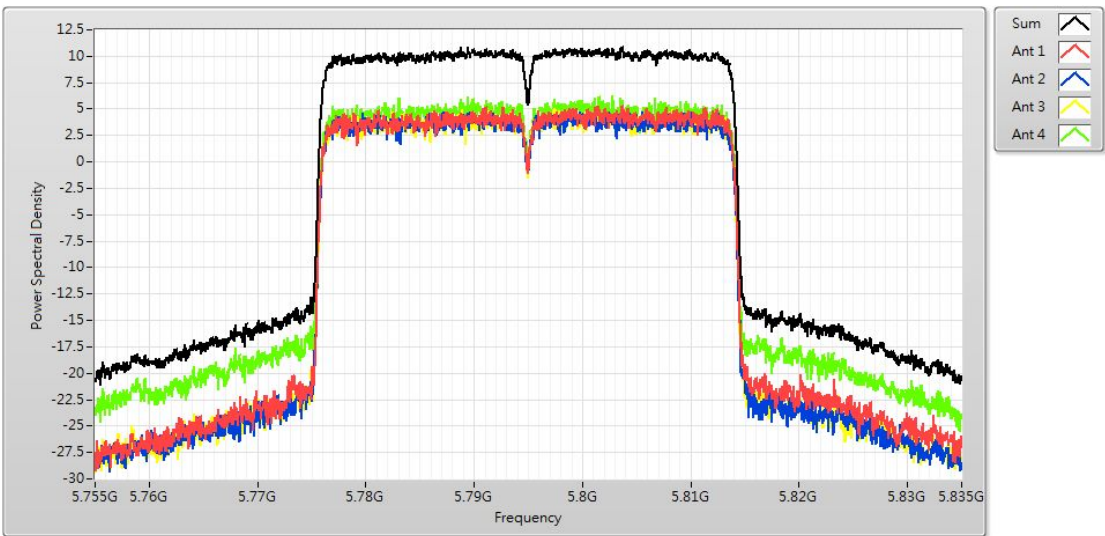
Channel 46 (5230MHz)



Channel 151 (5755MHz)



Channel 159 (575MHz)



Product	FiberGateway		
Test Item	Maximum power spectral density		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/14	Test Site	SR12-H
Test Temperature	24.0°C	Test Humidity	54.0%

IEEE 802.11ax (80MHz)

5GHz UNII 1:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
42	5210	-3.000	-2.690	-2.990	-2.120	2.770	≤ 13.279

5GHz UNII 3:

Channel No.	Frequency (MHz)	Measure Level (dBm)					Limit (dBm)
		Ant. 0	Ant. 1	Ant. 2	Ant. 3	Total	
155	5775	0.160	0.080	-0.240	1.330	5.760	≤ 25.279