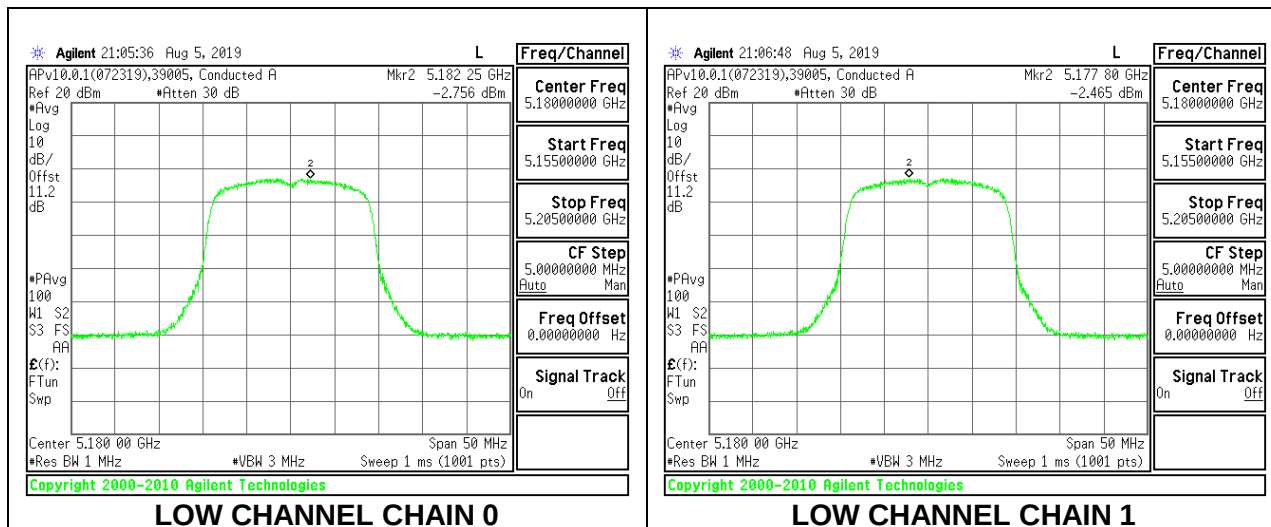
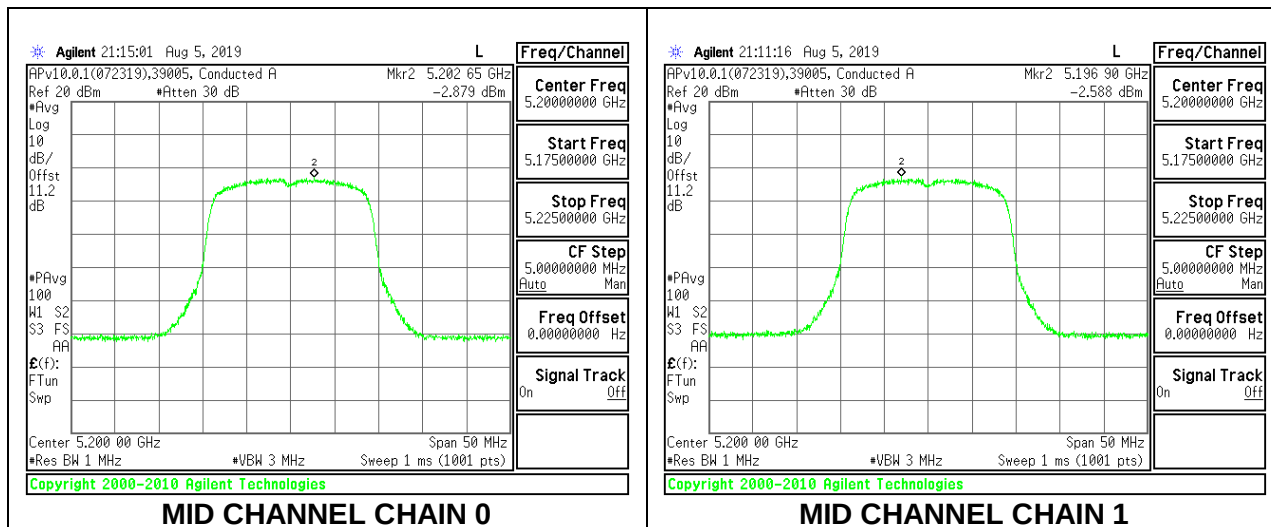


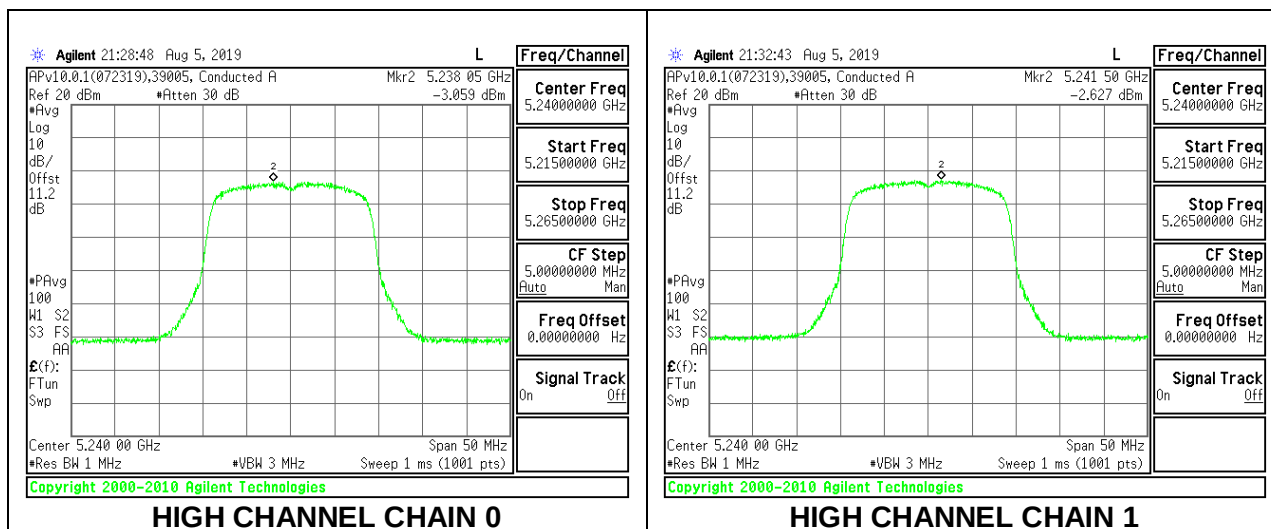
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5190	5.66	8.33	24.00	8.67
High	5230	5.66	8.33	24.00	8.67

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd Power & PSD
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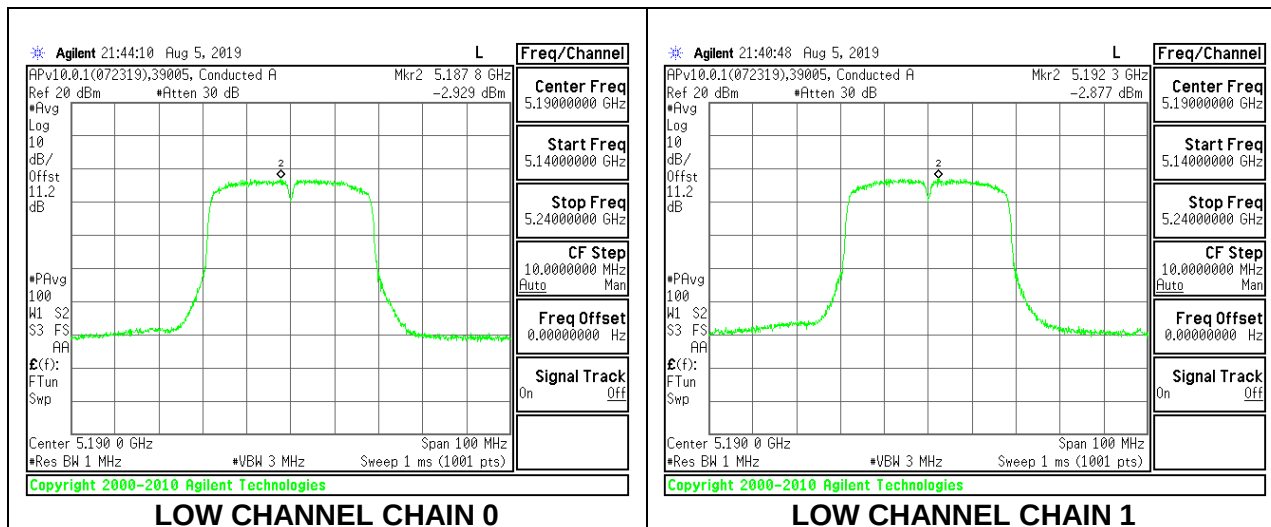
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	10.36	10.45	13.42	24.00	-10.58
High	5230	10.45	10.67	13.57	24.00	-10.43

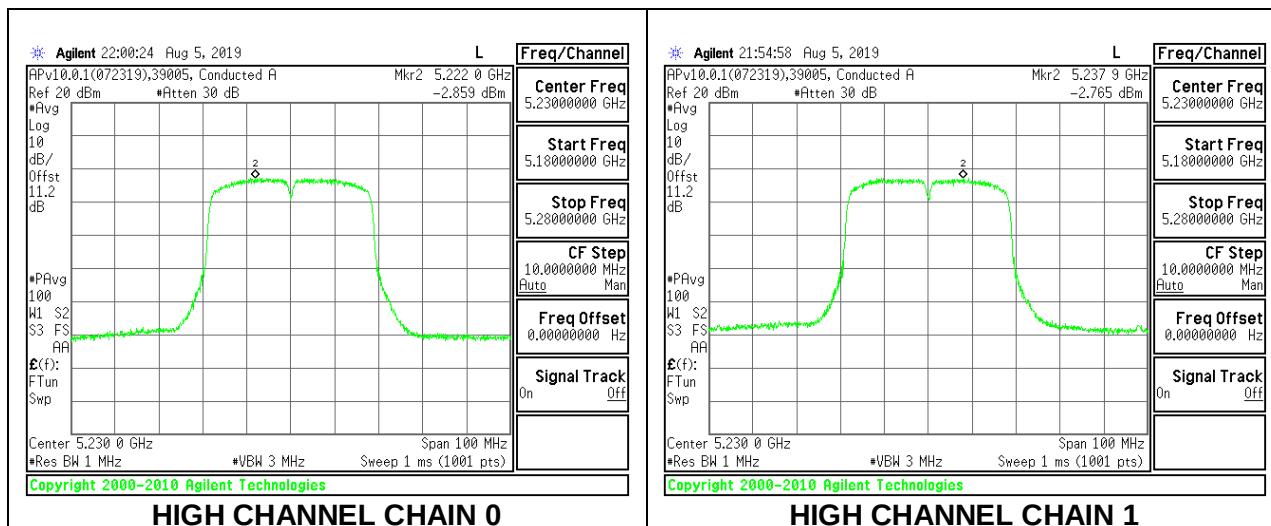
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-2.93	-2.88	0.55	8.67	-8.12
High	5230	-2.86	-2.77	0.64	8.67	-8.03

LOW CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	35.730	5.66	8.33	23.00	17.34	10.00	1.67
High	5230	35.754	5.66	8.33	23.00	17.34	10.00	1.67

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd Power & PSD
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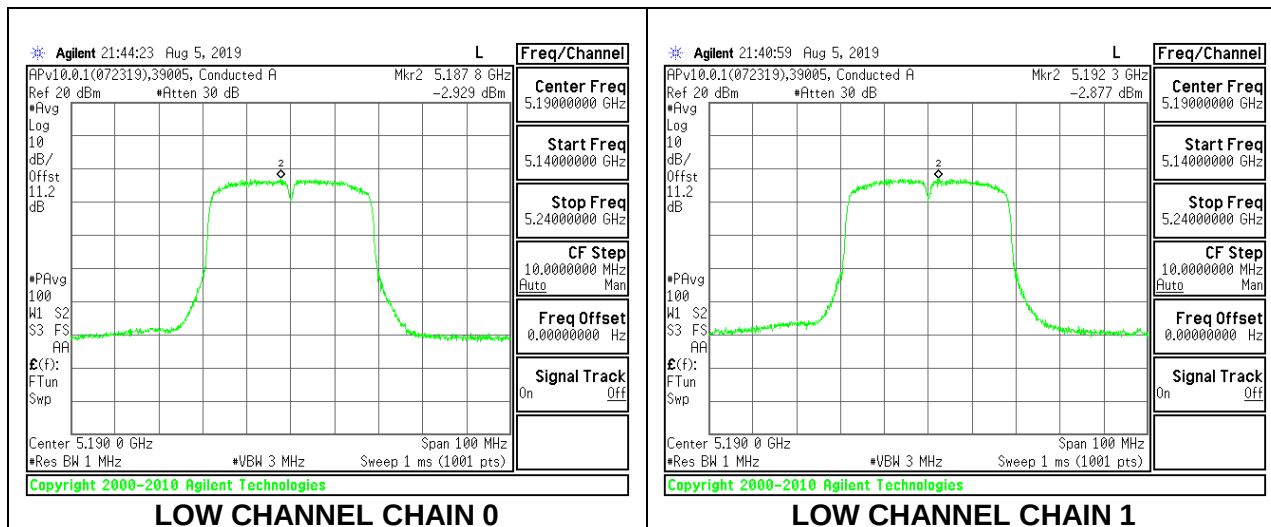
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	10.36	10.45	13.42	17.34	-3.92
High	5230	10.45	10.67	13.57	17.34	-3.77

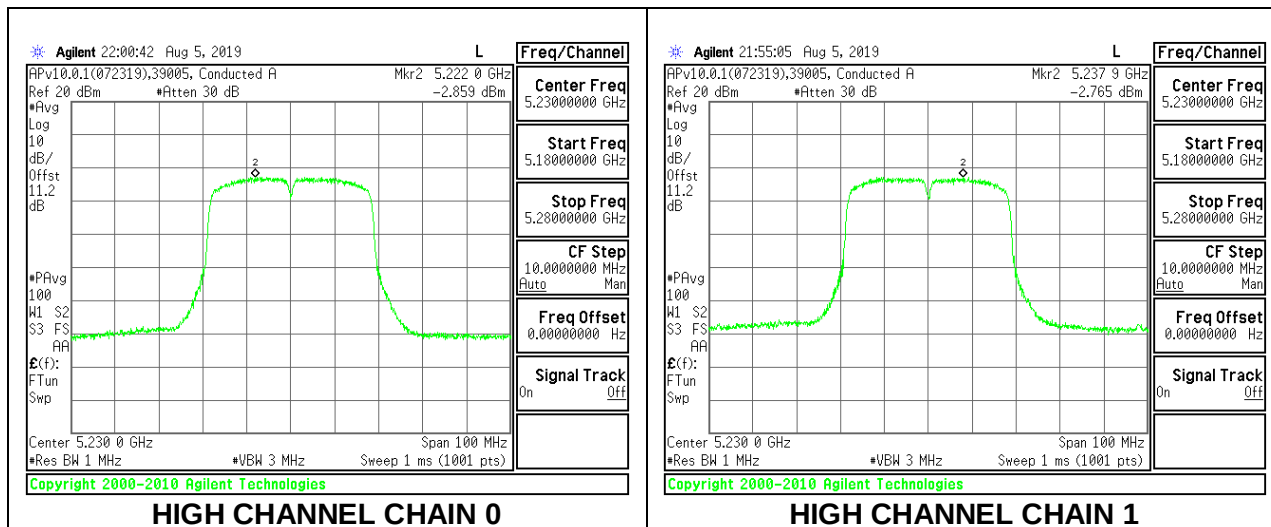
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-2.93	-2.88	0.55	1.67	-1.12
High	5230	-2.86	-2.77	0.64	1.67	-1.03

LOW CHANNEL



HIGH CHANNEL



8.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC) MOBILE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5210	5.66	8.33	24.00	8.67

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd Power & PSD
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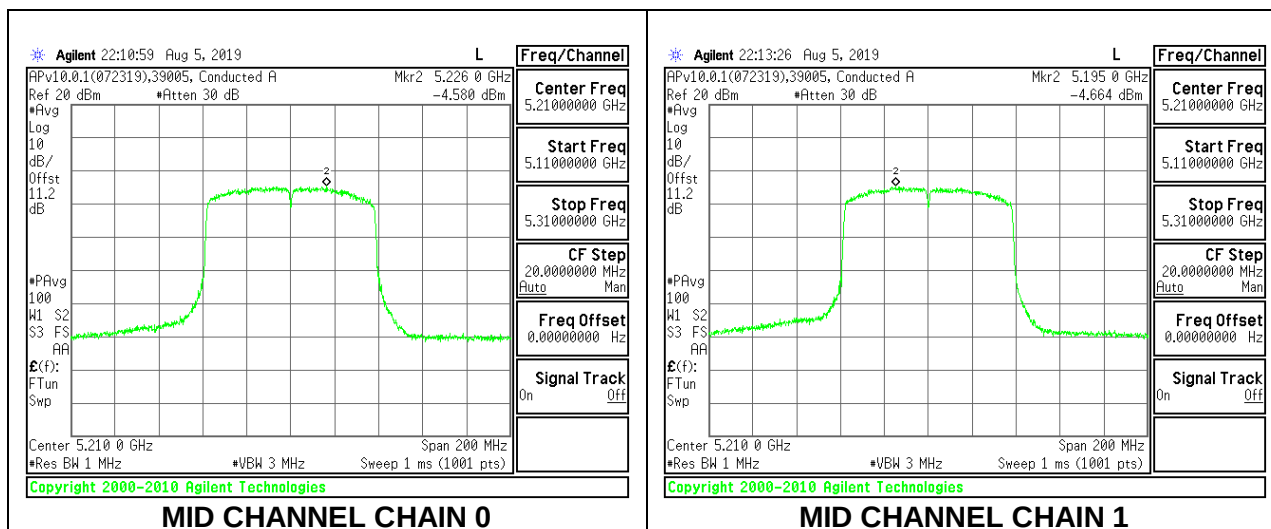
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	11.21	11.32	14.28	24.00	-9.72

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-4.58	-4.66	-0.79	8.67	-9.46

MID CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	EIRP Power Limit (dBm)	Power Limit (dBm)	EIRP PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	74.8670	5.66	8.33	23.00	17.34	10.00	1.67

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd Power & PSD
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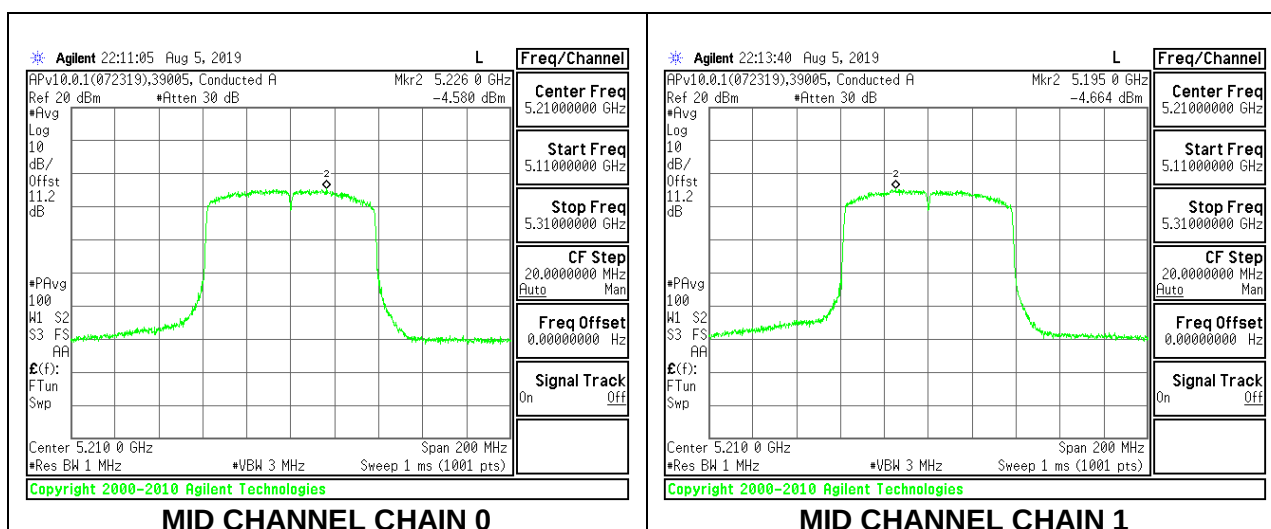
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	11.21	11.32	14.28	17.34	-3.06

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-4.58	-4.66	-0.79	1.67	-2.46

MID CHANNEL



8.5.5. 802.11a MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/1MHz)
Low	5260	19.25	6.47	9.09	23.37	7.91
Mid	5300	19.35	6.47	9.09	23.40	7.91
High	5320	19.20	6.47	9.09	23.36	7.91

Duty Cycle CF (dB)	0.22	Included in Calculations of Corr'd PSD
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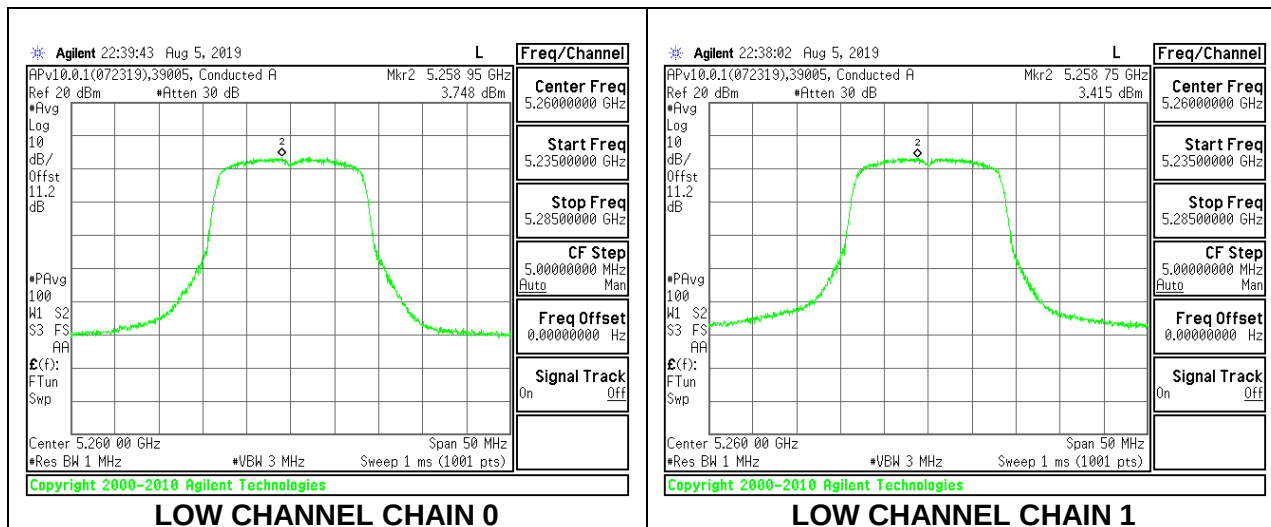
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	13.07	13.25	16.17	23.37	-7.20
Mid	5300	12.97	13.07	16.03	23.40	-7.37
High	5320	13.08	13.65	16.38	23.36	-6.98

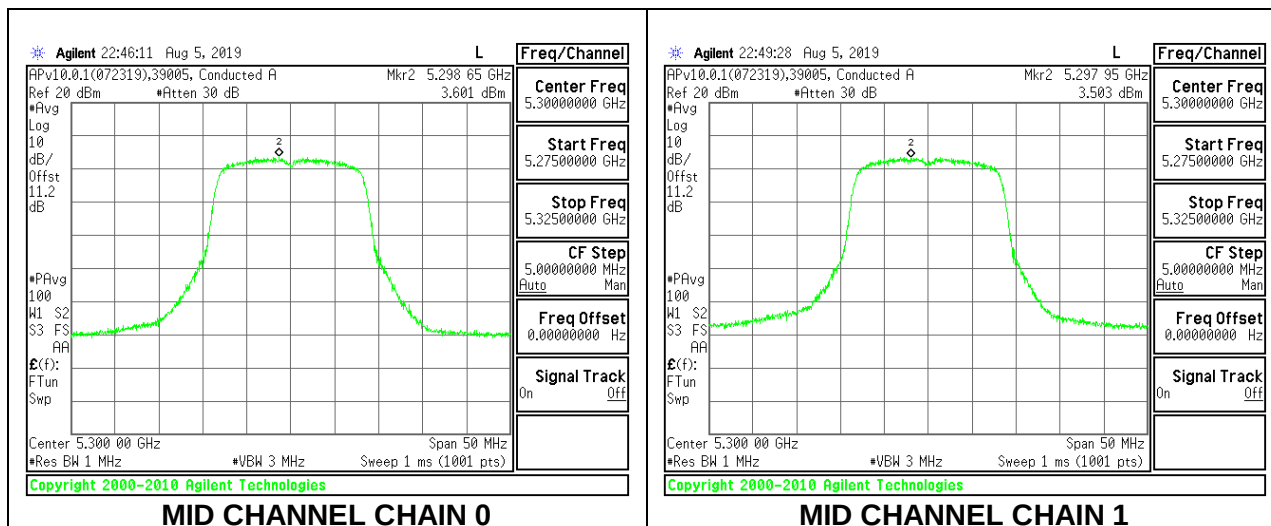
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.75	3.42	6.81	7.91	-1.10
Mid	5300	3.60	3.50	6.78	7.91	-1.13
High	5320	3.68	3.64	6.89	7.91	-1.02

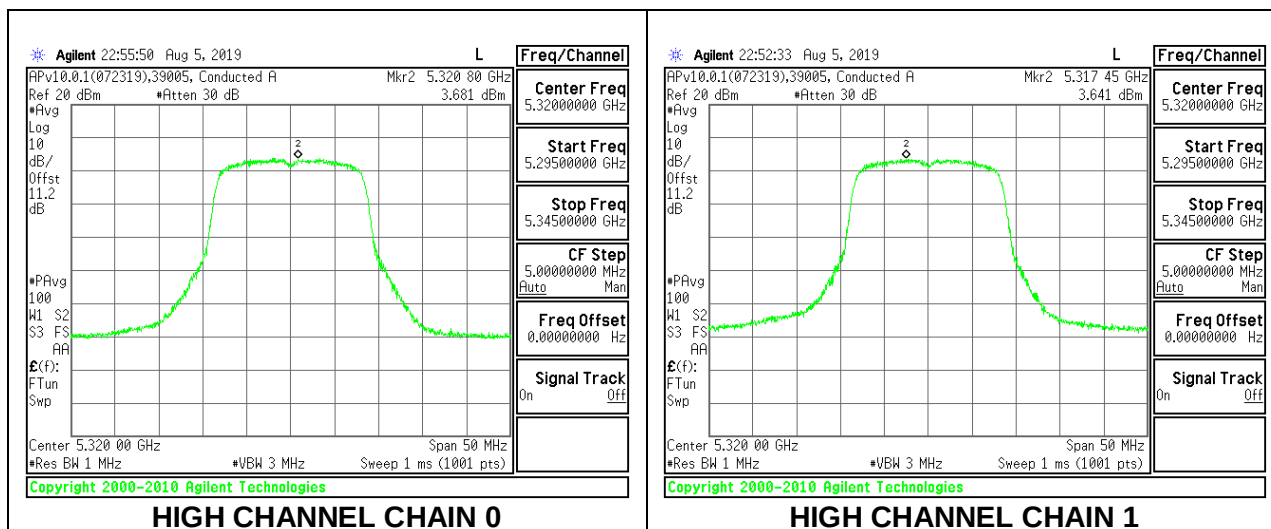
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	16.189	6.47	9..09	22.62	11.00
Mid	5300	16.099	7.47	9..10	21.60	11.00
High	5320	16.101	8.47	9..11	20.60	11.00

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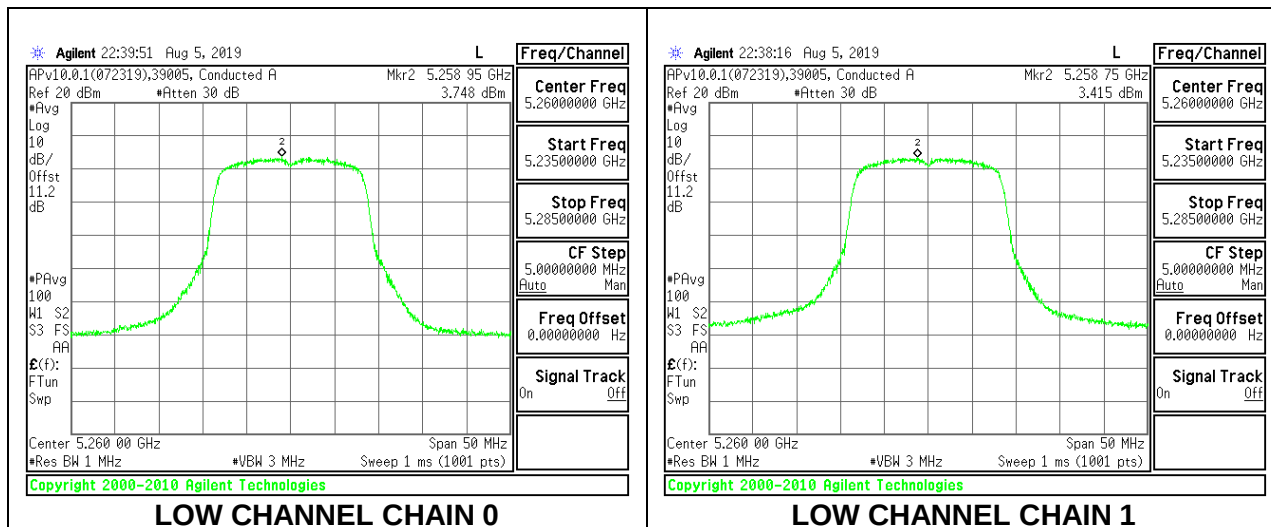
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	13.07	13.25	16.17	22.62	-6.45
Mid	5300	12.97	13.07	16.03	21.60	-5.57
High	5320	13.08	13.65	16.38	20.60	-4.21

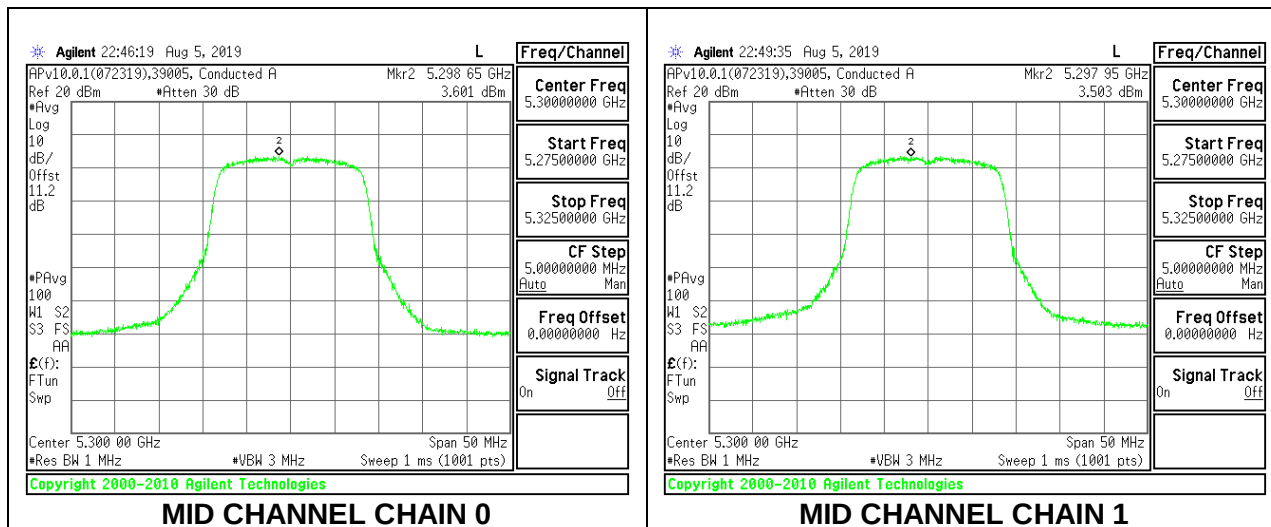
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.75	3.42	6.59	11.00	-4.41
Mid	5300	3.60	3.50	6.56	11.00	-4.44
High	5320	3.68	3.64	6.67	11.00	-4.33

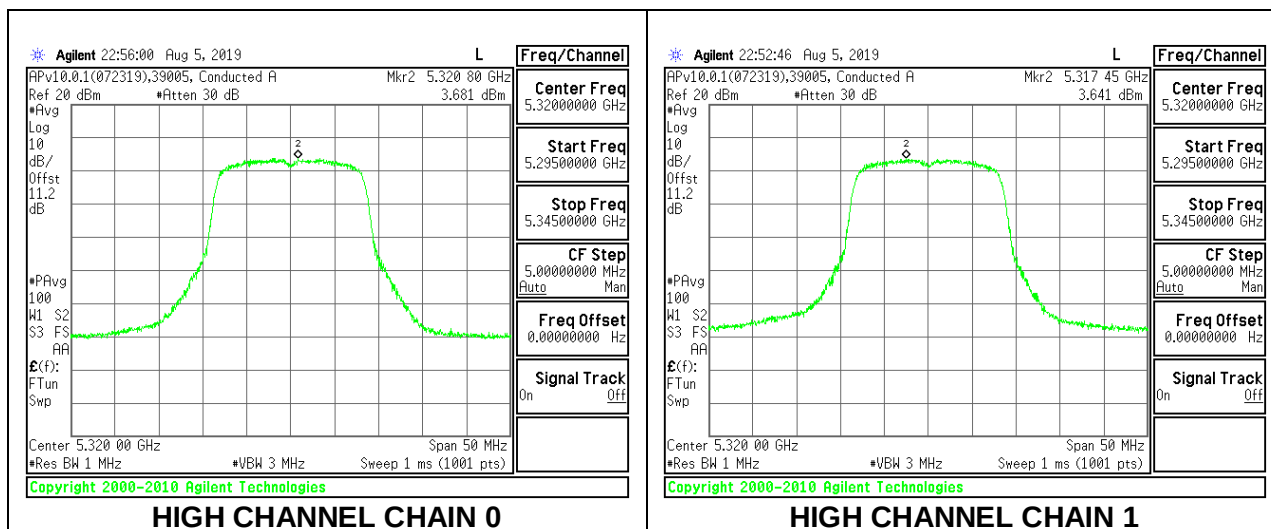
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/1MHz)
Low	5260	19.80	6.47	9.09	23.50	7.91
Mid	5300	19.70	6.47	9.09	23.47	7.91
High	5320	19.85	6.47	9.09	23.51	7.91

Duty Cycle CF (dB)	0.24	Included in Calculations of Corr'd PSD
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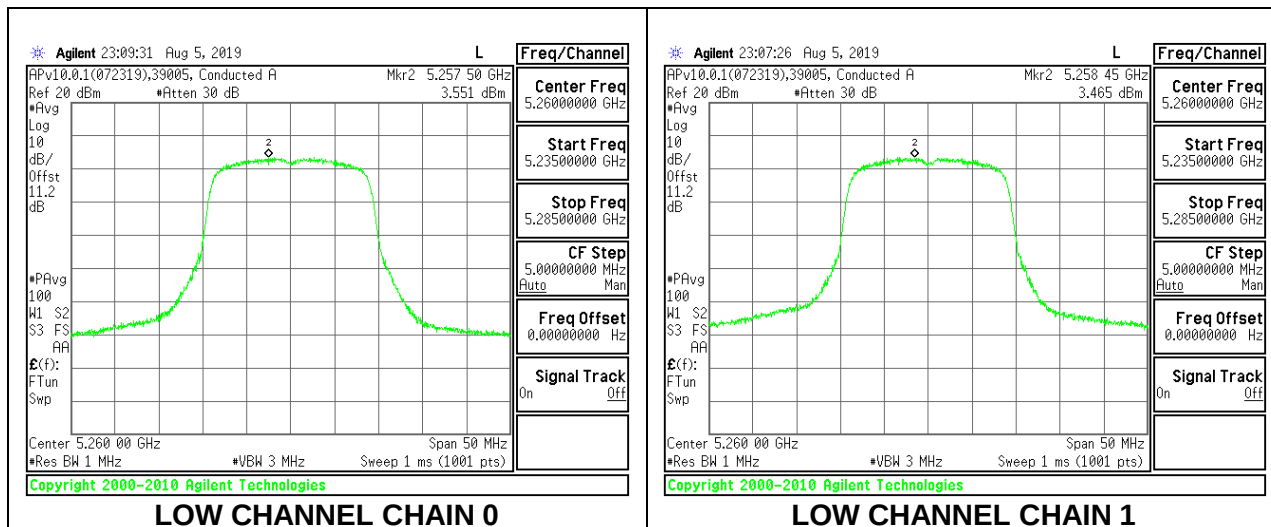
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	13.37	13.65	16.52	23.50	-6.97
Mid	5300	13.55	13.65	16.61	23.47	-6.86
High	5320	13.53	13.67	16.61	23.51	-6.90

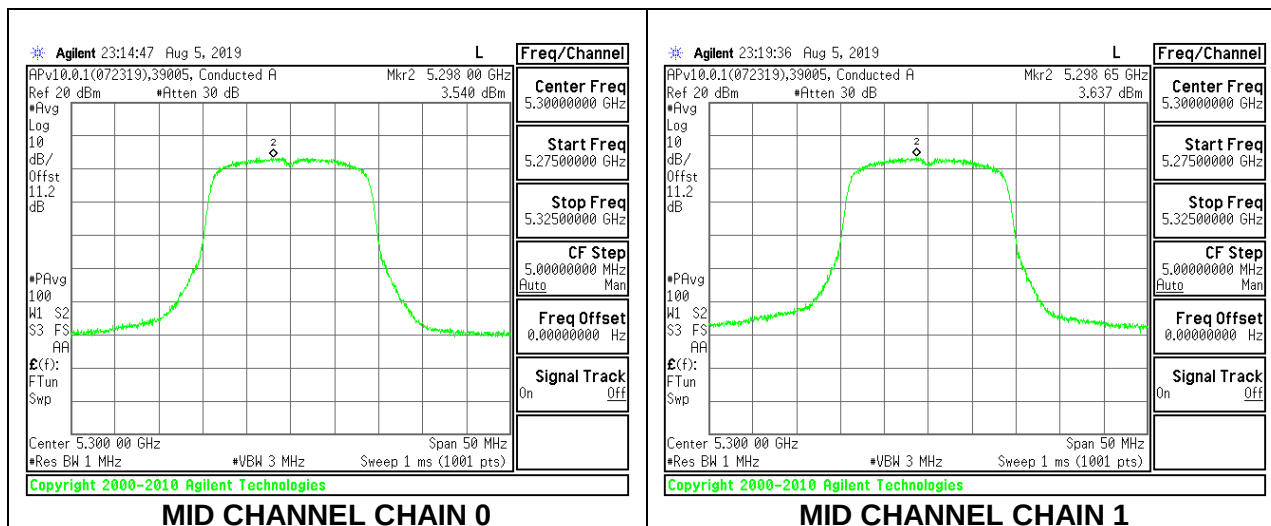
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.55	3.47	6.76	7.91	-1.15
Mid	5300	3.54	3.64	6.84	7.91	-1.07
High	5320	3.57	3.67	6.87	7.91	-1.04

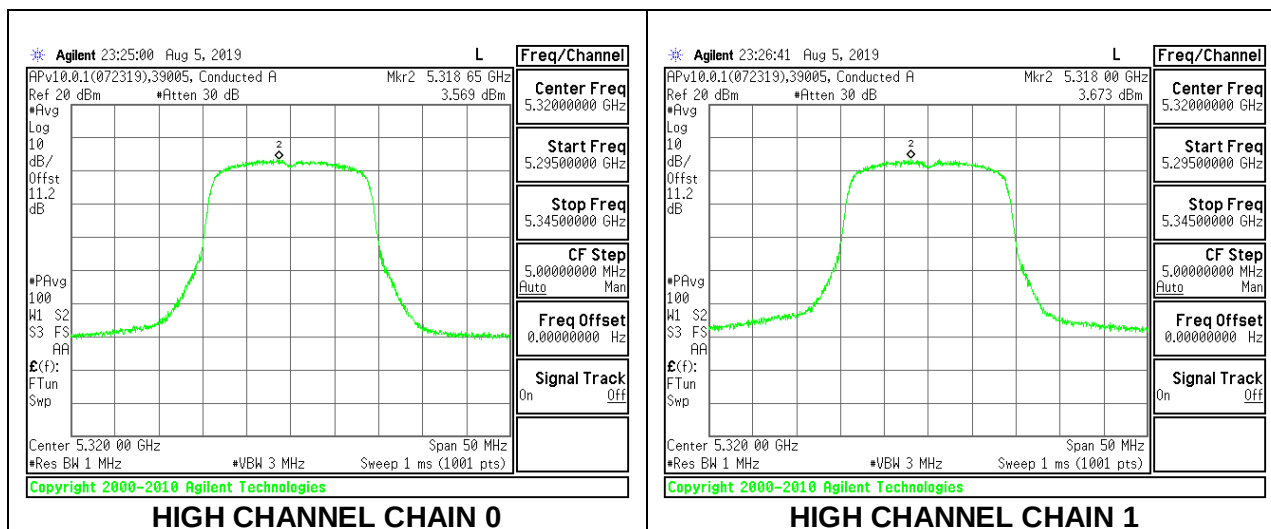
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	17.2700	6.47	9.09	22.90	11.00
Mid	5300	17.4080	6.47	9.09	22.94	11.00
High	5320	17.3890	6.47	9.09	22.93	11.00

Duty Cycle CF (dB)	0.24	Included in Calculations of Corr'd PSD
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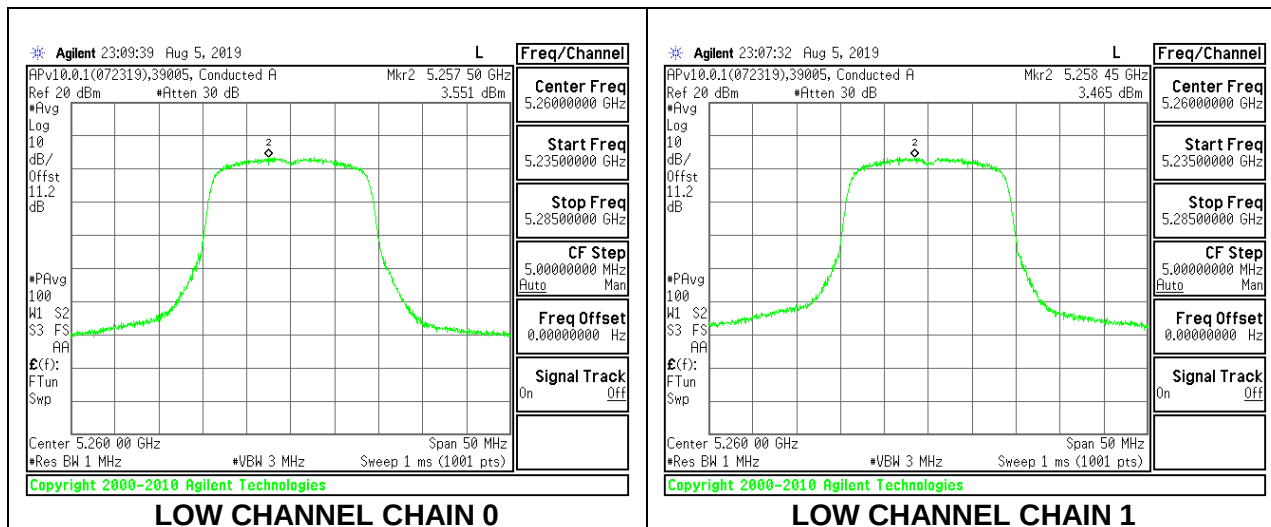
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	13.37	13.65	16.52	22.90	-6.38
Mid	5300	13.55	13.65	16.61	22.94	-6.33
High	5320	13.53	13.67	16.61	22.93	-6.32

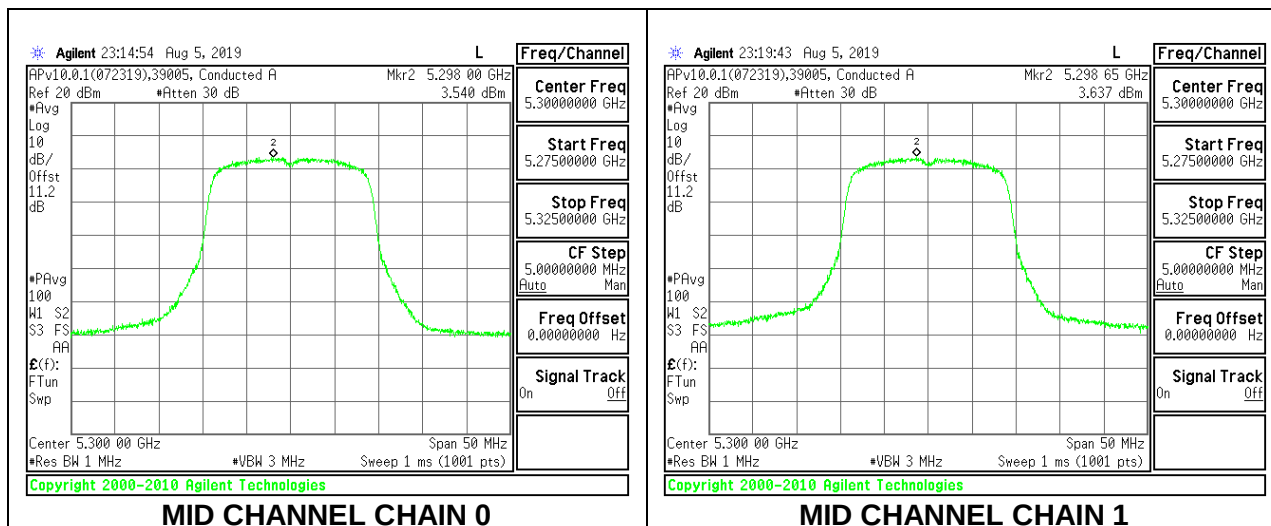
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	3.55	3.47	6.76	11.00	-4.24
Mid	5300	3.54	3.64	6.84	11.00	-4.16
High	5320	3.57	3.67	6.87	11.00	-4.13

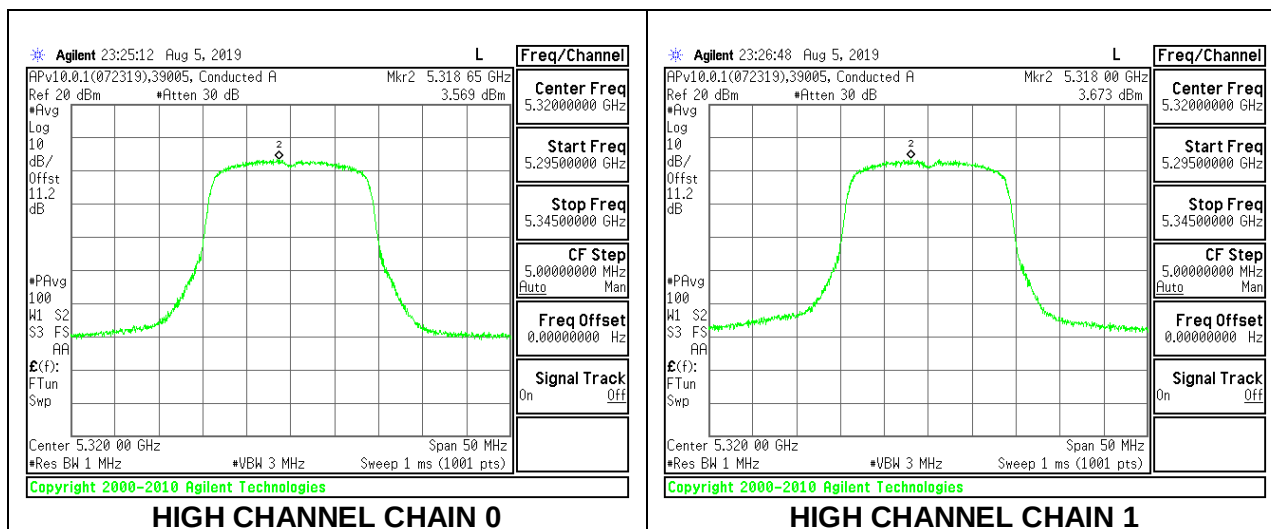
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/1MHz)
Low	5270	41.50	6.47	9.09	23.53	7.91
High	5310	41.60	6.47	9.09	23.53	7.91

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd PSD
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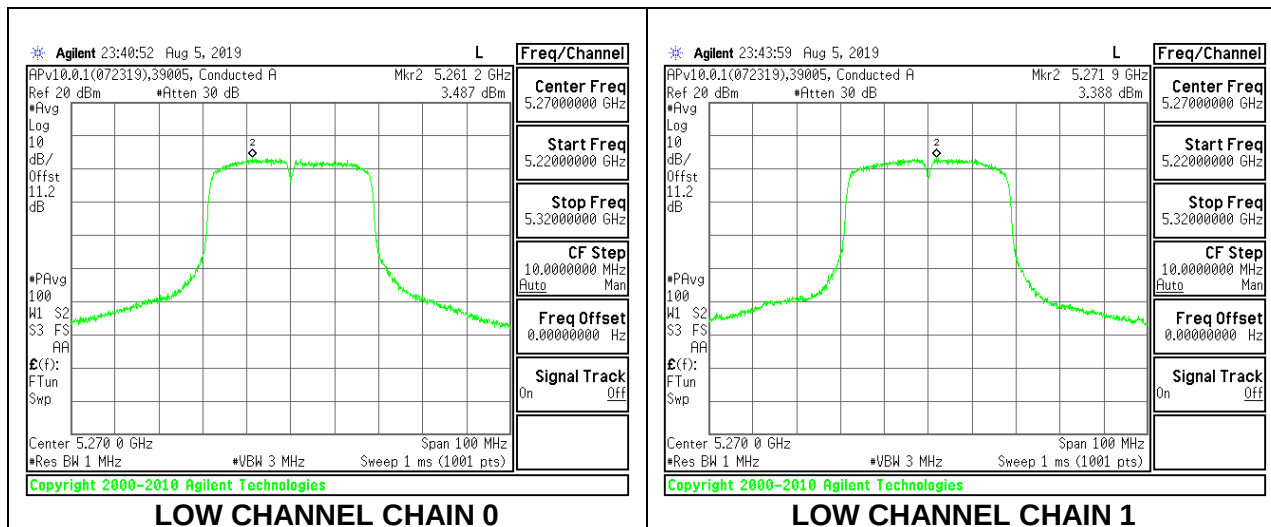
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	16.19	16.33	19.27	23.53	-4.26
High	5310	16.26	16.38	19.33	23.53	-4.20

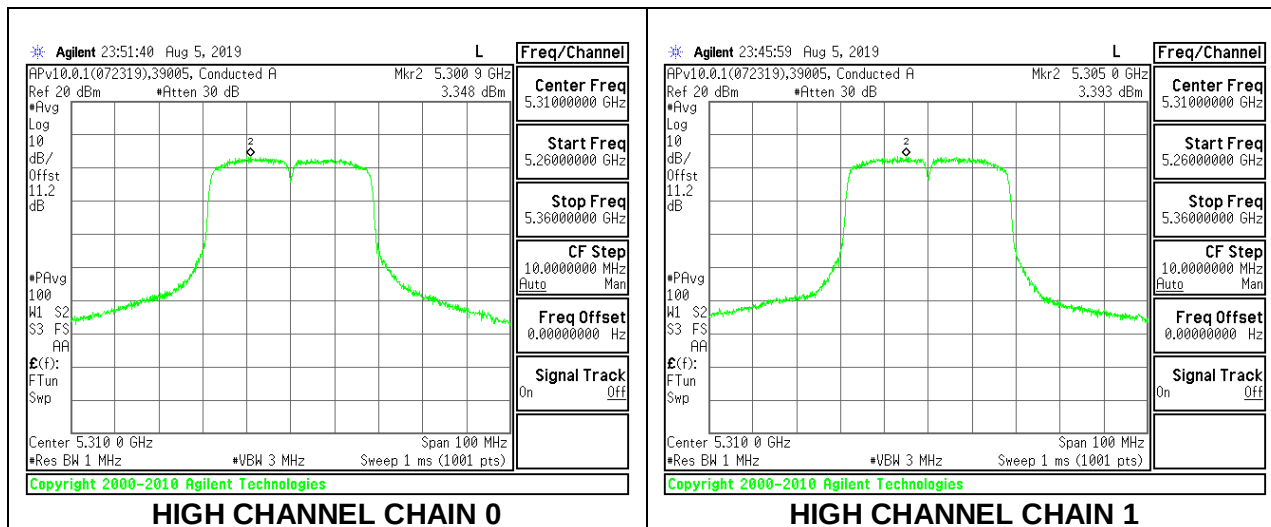
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	3.49	3.39	6.89	7.91	-1.02
High	5310	3.35	3.39	6.82	7.91	-1.09

LOW CHANNEL



HIGH CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	35.160	6.47	9.09	23.53	11.00
High	5310	35.644	6.47	9.09	23.53	11.00

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd PSD
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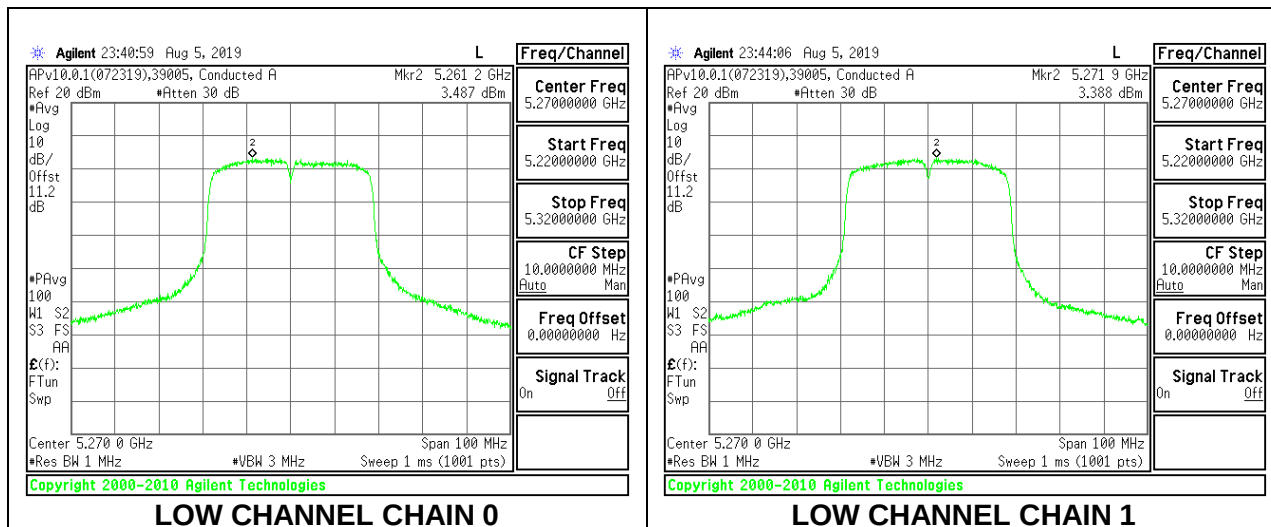
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	16.19	16.33	19.27	23.53	-4.26
High	5310	16.26	16.38	19.33	23.53	-4.20

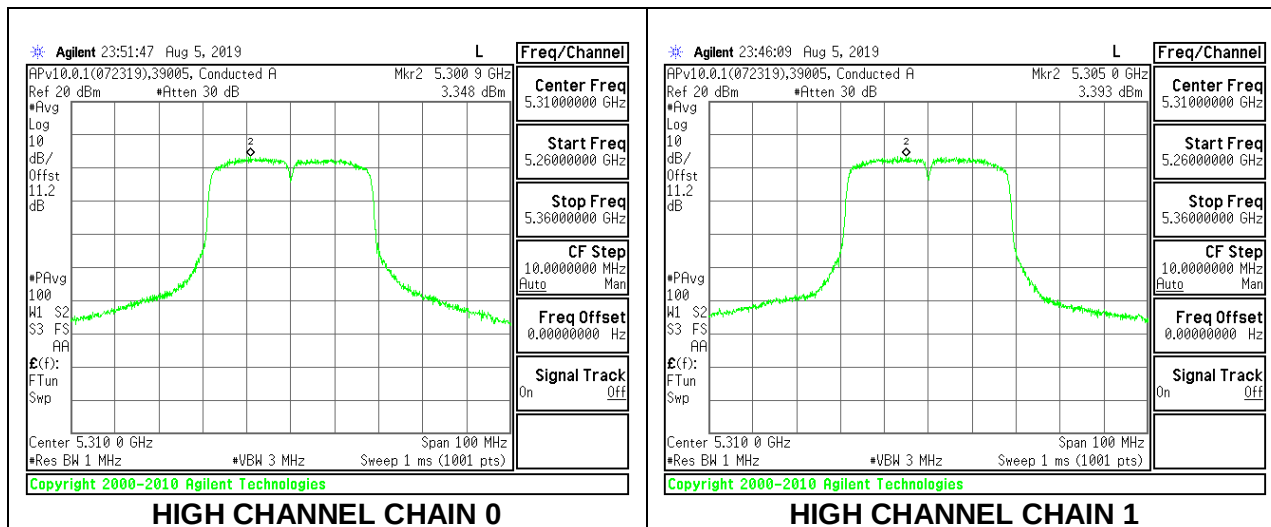
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	3.49	3.39	6.89	11.00	-4.11
High	5310	3.35	3.39	6.82	11.00	-4.18

LOW CHANNEL



HIGH CHANNEL



8.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/1MHz)
Mid	5290	84.60	6.47	9.09	23.53	7.91

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd PSD
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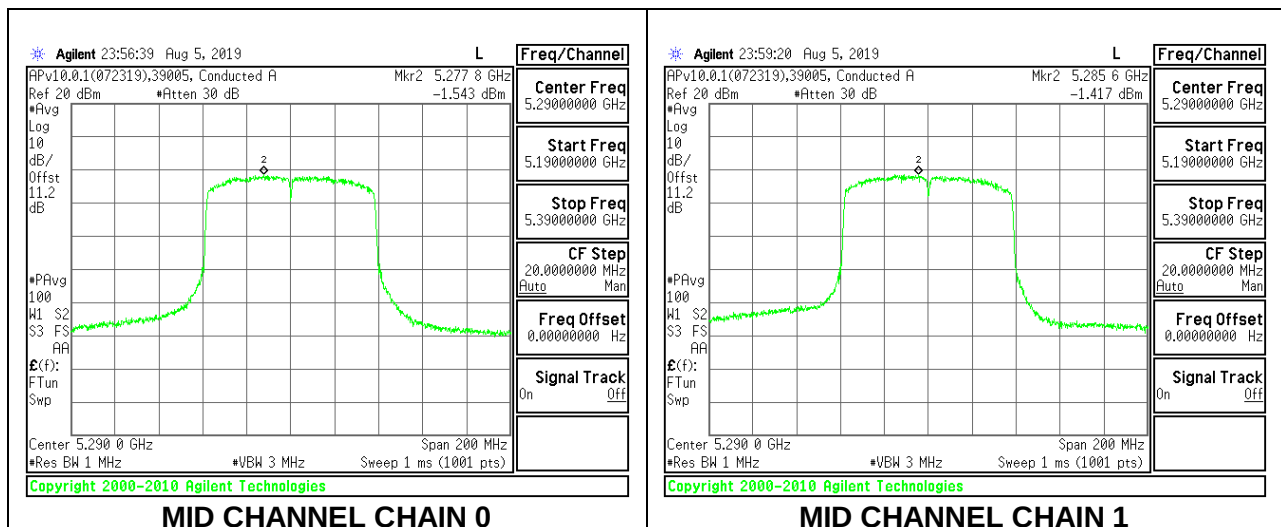
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.21	14.25	17.24	23.53	-6.29

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-1.54	-1.42	2.35	7.91	-5.56

MID CHANNEL



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	74.795	6.47	9.09	23.53	11.00

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd PSD
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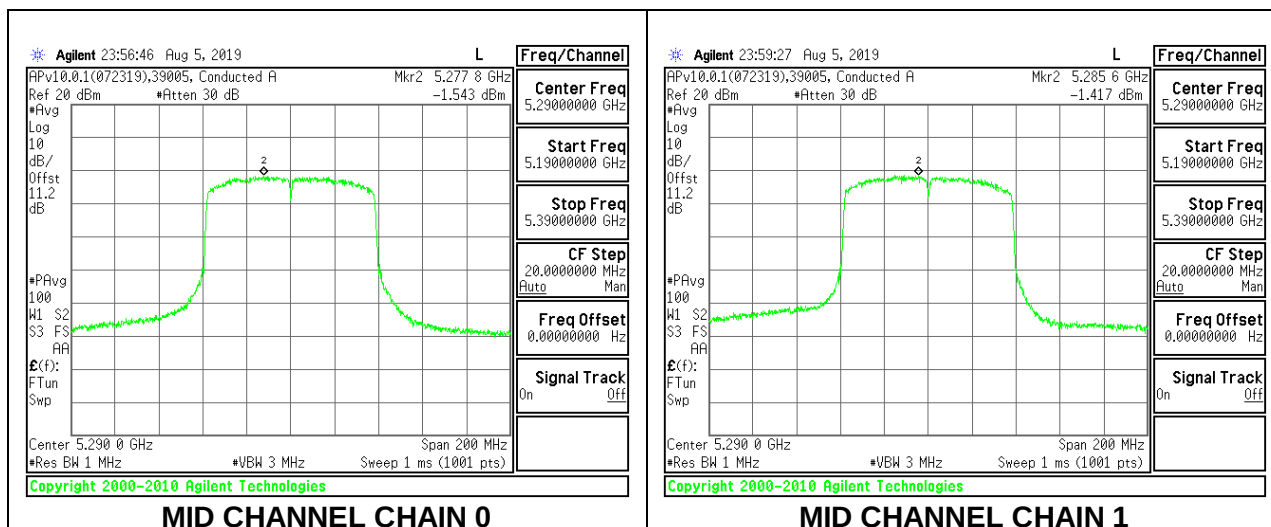
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	14.21	14.25	17.24	23.53	-6.29

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-1.54	-1.42	2.35	11.00	-8.65

MID CHANNEL



8.5.9. 802.11a MODE IN THE 5.6 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/ 1MHz)
Low	5500	19.55	6.65	9.54	23.26	7.46
Mid	5580	19.65	6.65	9.54	23.28	7.46
High	5700	19.60	6.65	9.54	23.27	7.46
144*	5720	19.90	6.65	9.54	23.34	7.46

Duty Cycle CF (dB)	0.22	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.78	13.00	15.90	23.26	-7.36
Mid	5580	12.68	12.89	15.80	23.28	-7.49
High	5700	12.99	13.08	16.05	23.27	-7.23
144*	5720	12.71	12.81	15.99	23.34	-7.35

PSD Results

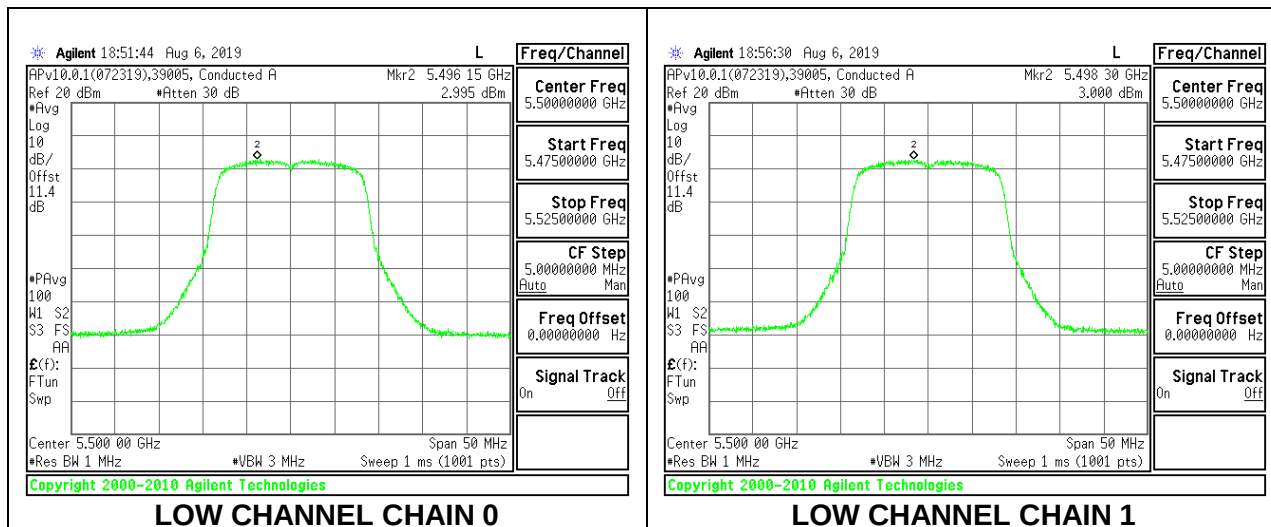
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.00	3.00	6.23	7.46	-1.23
Mid	5580	2.99	2.90	6.17	7.46	-1.29
High	5700	3.11	3.34	6.46	7.46	-1.00
144*	5720	3.29	3.11	6.43	7.46	-1.03

*As per the calculation in this formula, Measured total bandwidth(26dB) / 2 + 5 MHz, the worst case bandwidth is 14.95 MHz.

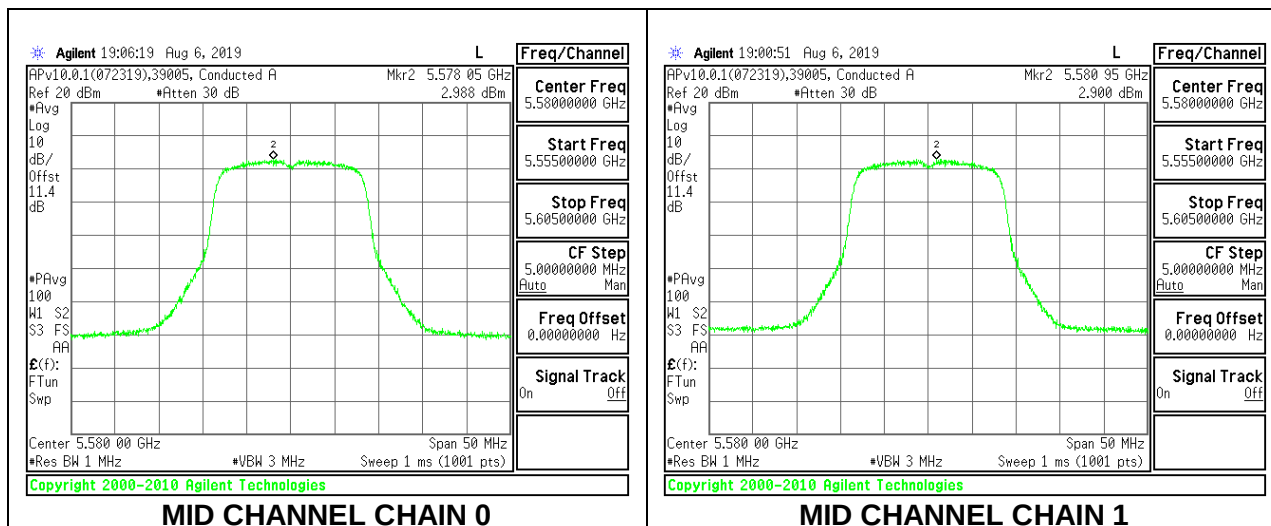
Based on the 14.95 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $11 + 10 \cdot \log(14.95) - 0.65 = 22.09$ dBm. The total signal power is 15.99 dBm which is less than the limit of 22.09 dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

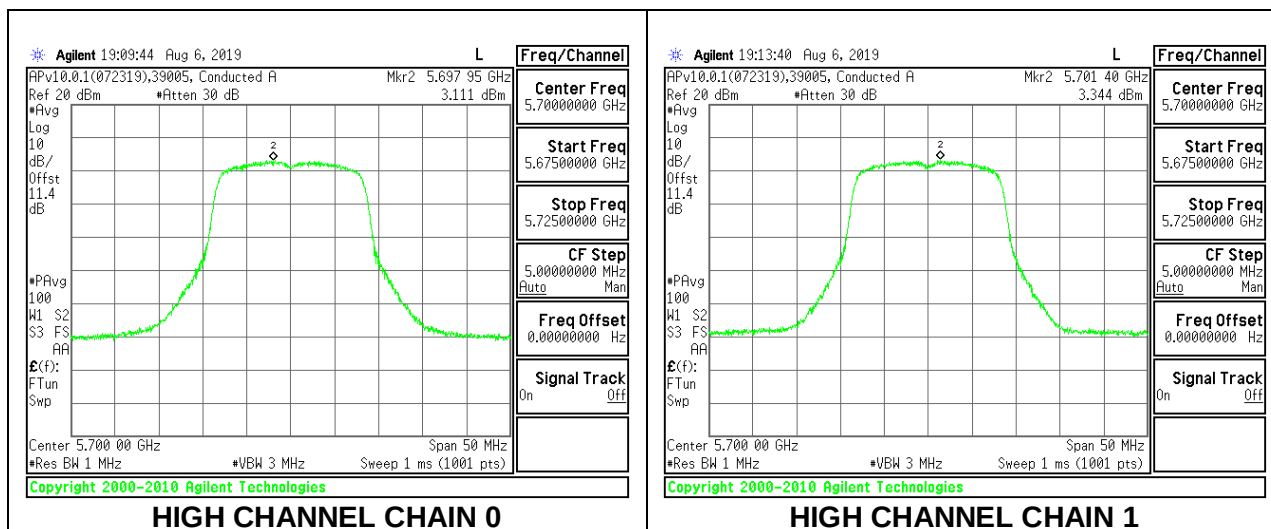
LOW CHANNEL



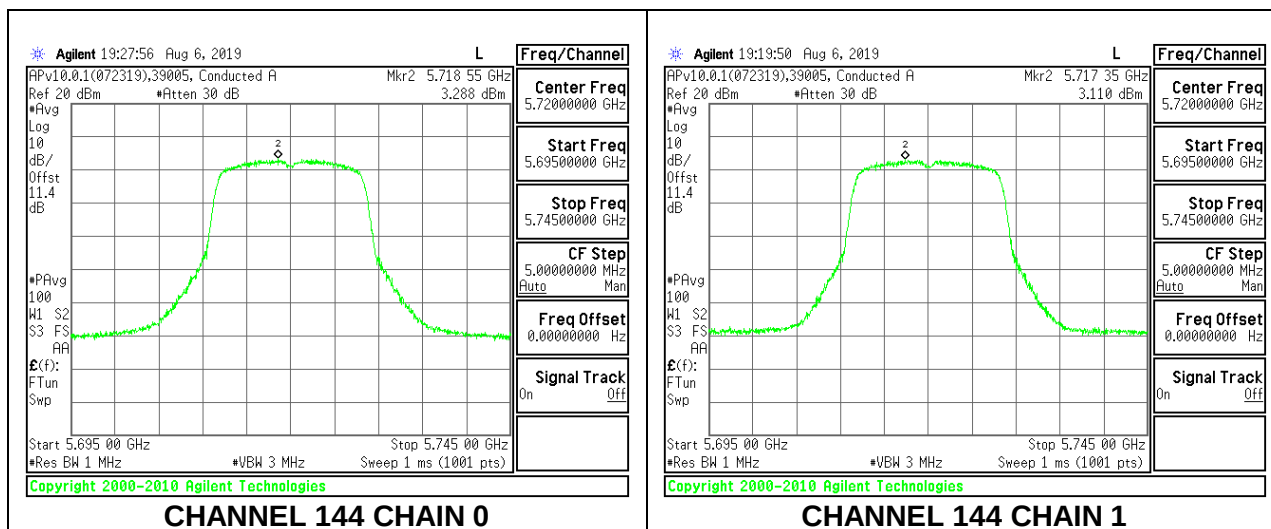
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	16.221	6.65	9.54	22.45	7.46
Mid	5580	16.015	6.65	9.54	22.40	7.46
High	5700	16.302	6.65	9.54	22.47	7.46
144*	5720	16.199	6.65	9.54	22.44	7.46

Duty Cycle CF (dB)	0.22	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.78	13.00	15.90	22.45	-6.55
Mid	5580	12.68	12.89	15.80	22.40	-6.60
High	5700	12.99	13.08	16.05	22.47	-6.43
144*	5720	12.71	12.81	15.99	22.44	-6.45

PSD Results

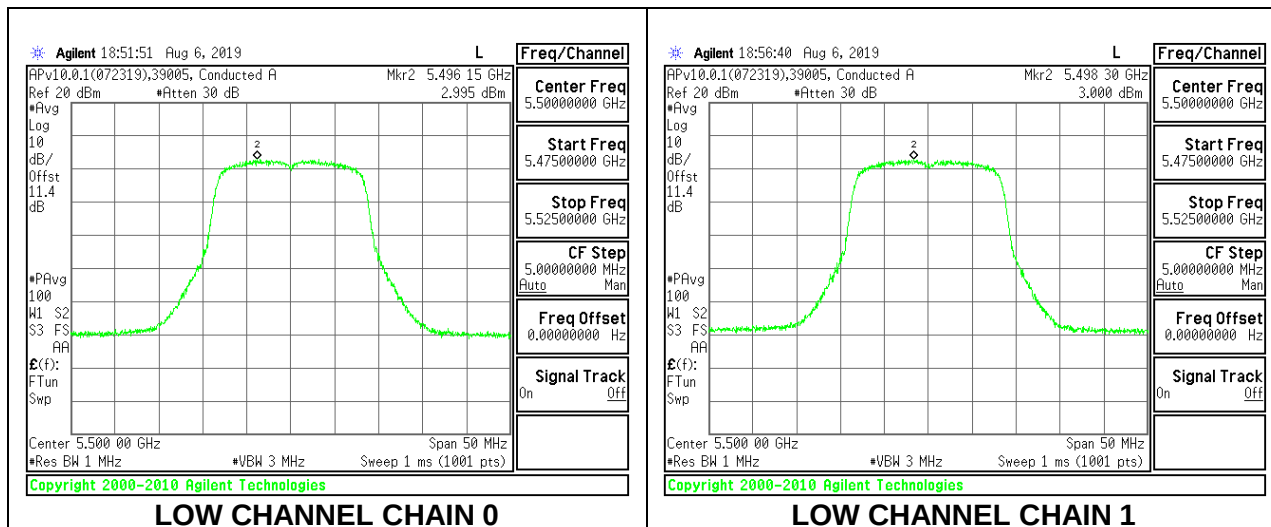
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.00	3.00	6.23	7.46	-1.23
Mid	5580	2.99	2.90	6.17	7.46	-1.29
High	5700	3.11	3.34	6.46	7.46	-1.00
144*	5720	3.29	3.11	6.43	7.46	-1.03

*As per the calculation in this formula, Measured total bandwidth(99%) / 2 + 5 MHz, the worst case bandwidth is 13.0995 MHz.

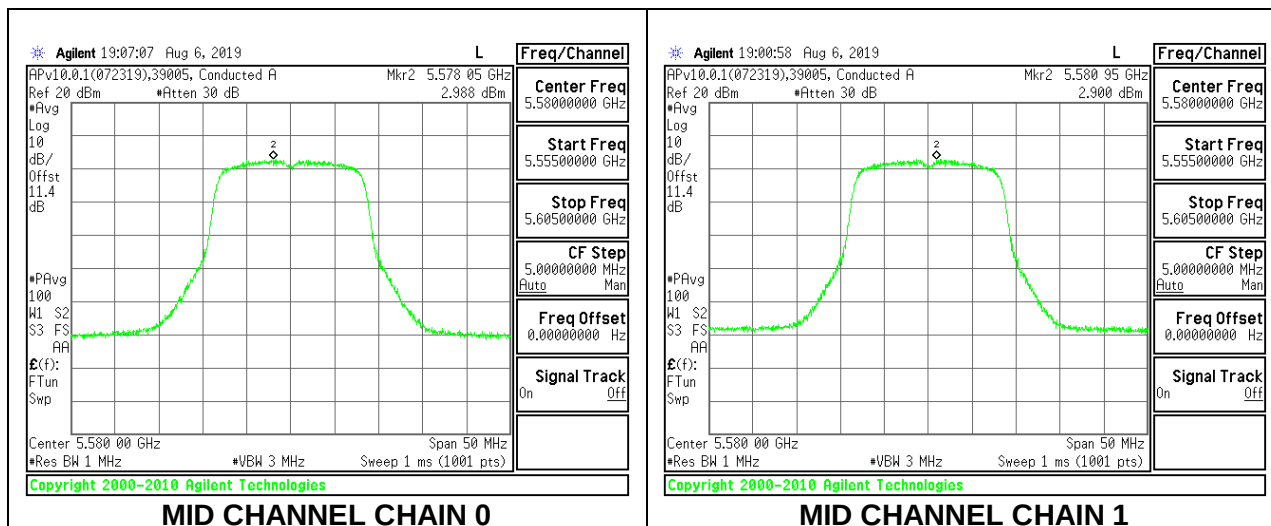
Based on the 13.0995 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $17 + 10 \cdot \log(13.0995) - 6.65 = 21.52$ dBm. The total signal power is 15.99 dBm which is less than the limit of 21.52 dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

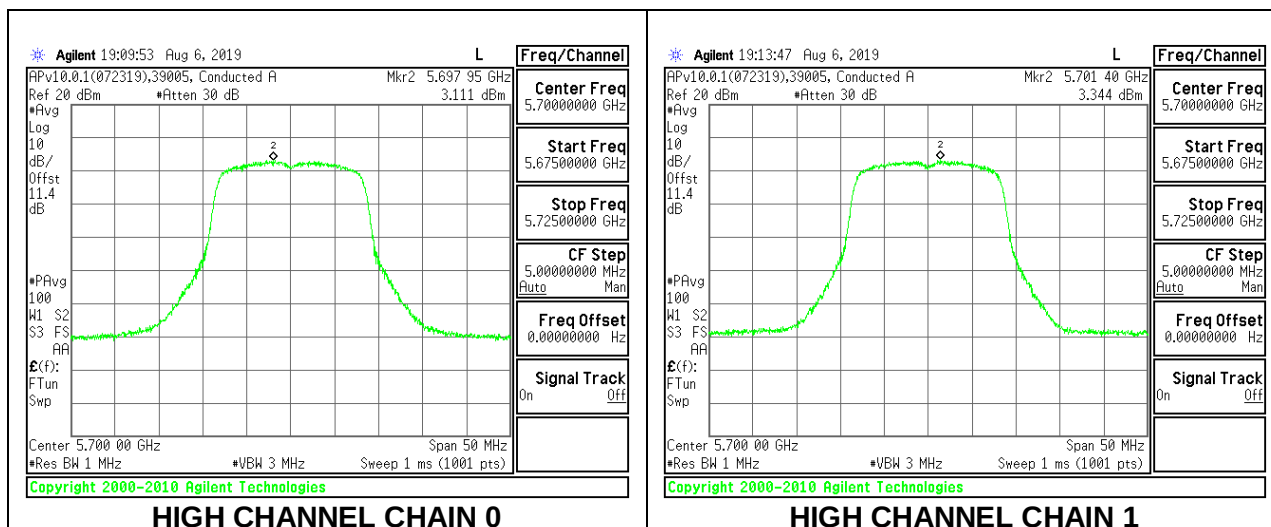
LOW CHANNEL



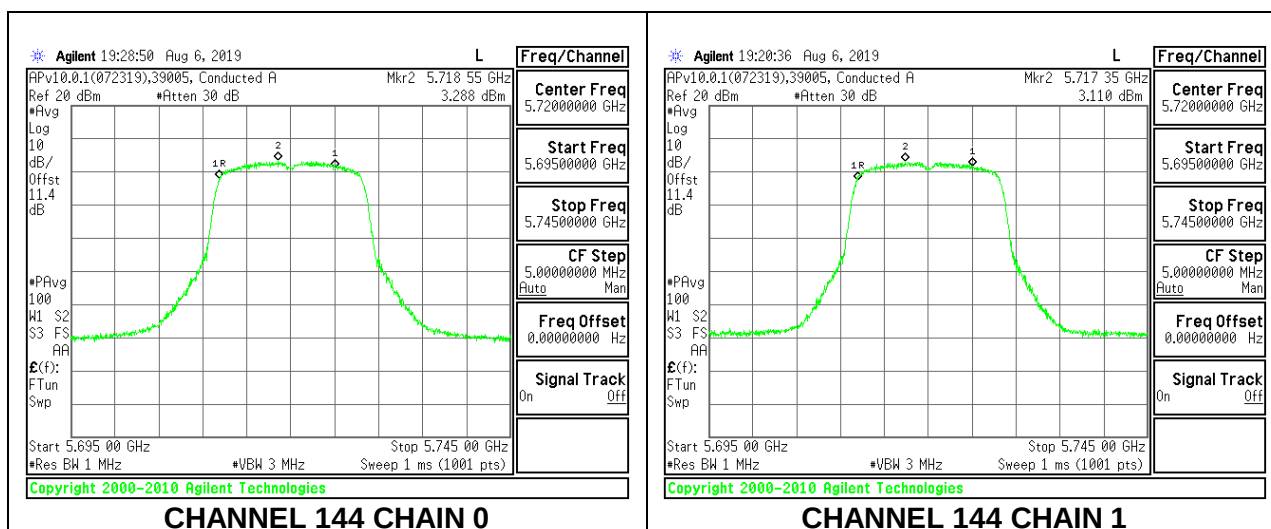
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/ 1MHz)
Low	5500	20.55	6.65	9.54	23.35	7.46
Mid	5580	20.55	6.65	9.54	23.35	7.46
High	5700	20.45	6.65	9.54	23.35	7.46
144*	5720	20.45	6.65	9.54	23.35	7.46

Duty Cycle CF (dB)	0.24	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.82	12.97	15.91	23.35	-7.44
Mid	5580	12.88	12.96	15.93	23.35	-7.42
High	5700	12.88	13.03	15.97	23.35	-7.38
144*	5720	13.03	13.26	16.40	23.35	-6.95

PSD Results

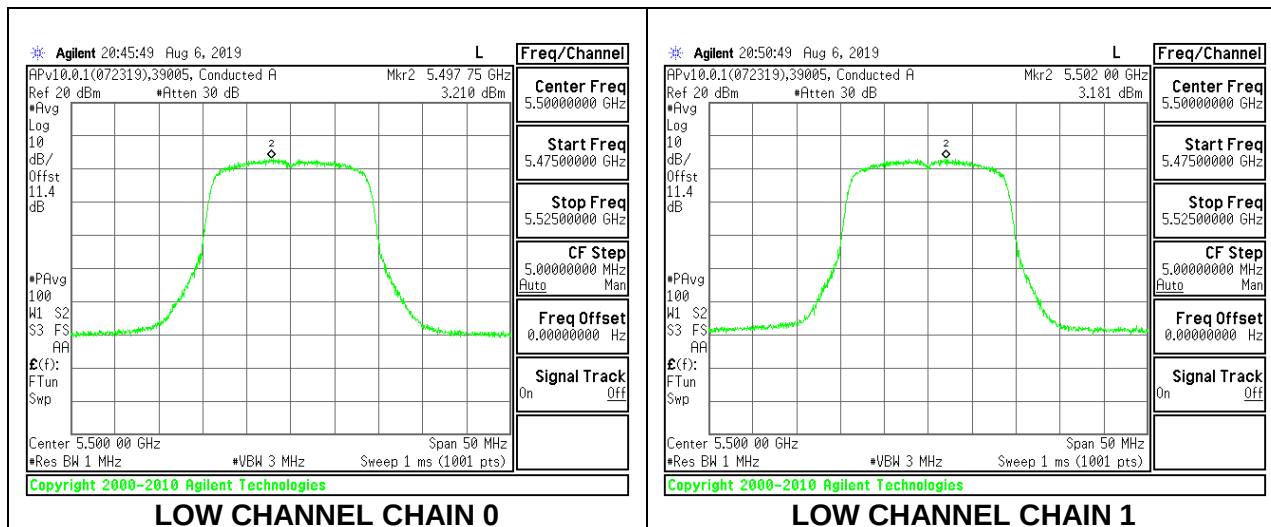
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.21	3.18	6.45	7.46	-1.01
Mid	5580	3.13	3.16	6.40	7.46	-1.06
High	5700	3.19	3.21	6.45	7.46	-1.01
144*	5720	3.09	3.24	6.42	7.46	-1.04

*As per the calculation in this formula, Measured total bandwidth(26dB) / 2 + 5 MHz, the worst case bandwidth is 15.225 MHz.

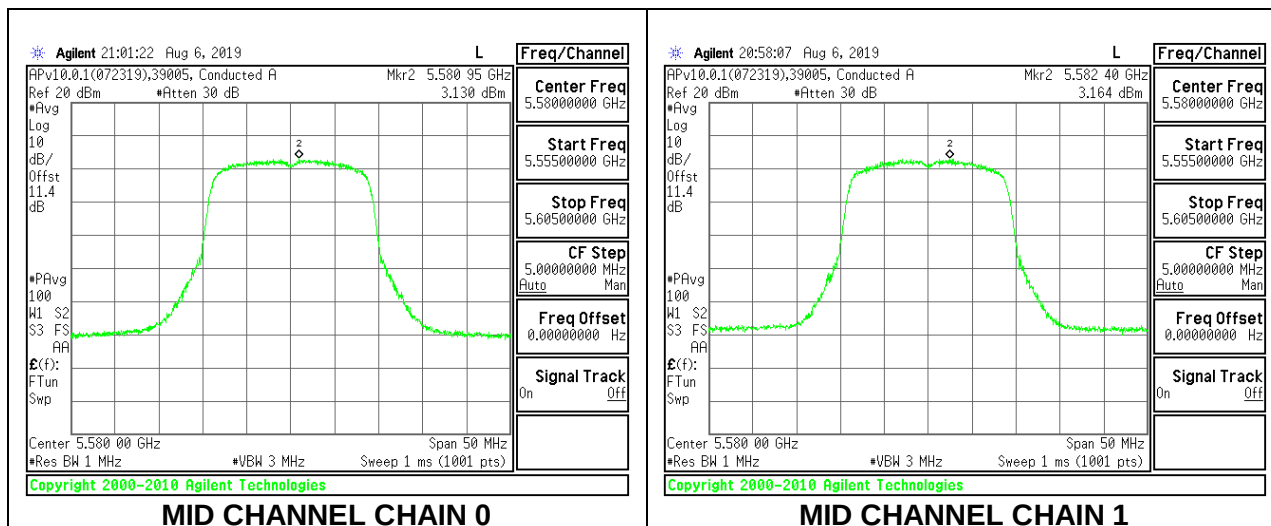
Based on the 15.225 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $11 + 10 \cdot \log(15.225) - 0.65 = 22.18$ dBm. The total signal power is 16.4 dBm which is less than the limit of 22.18 dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

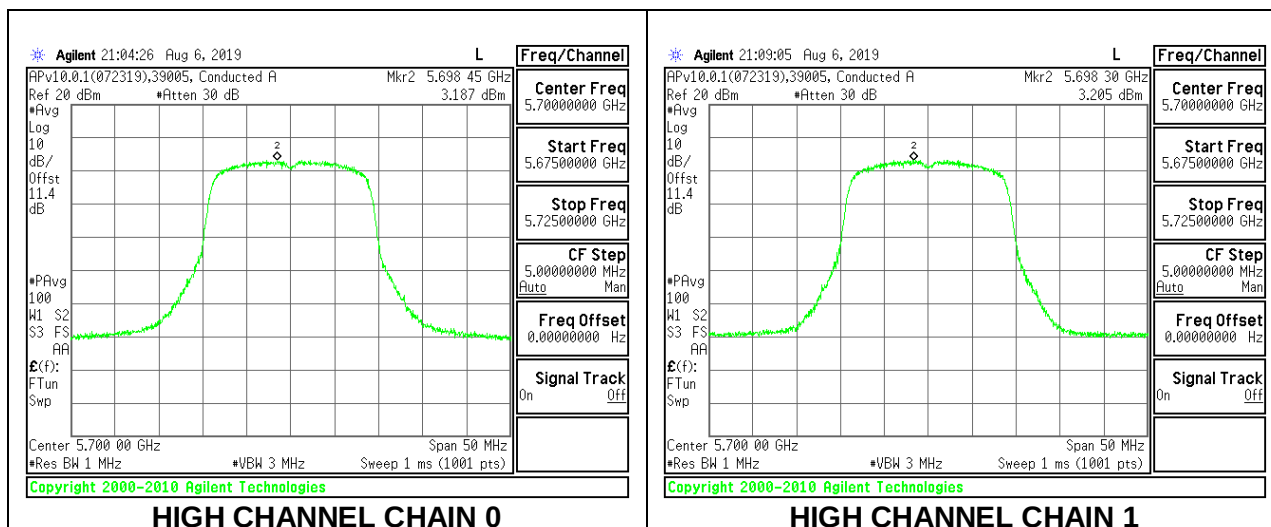
LOW CHANNEL



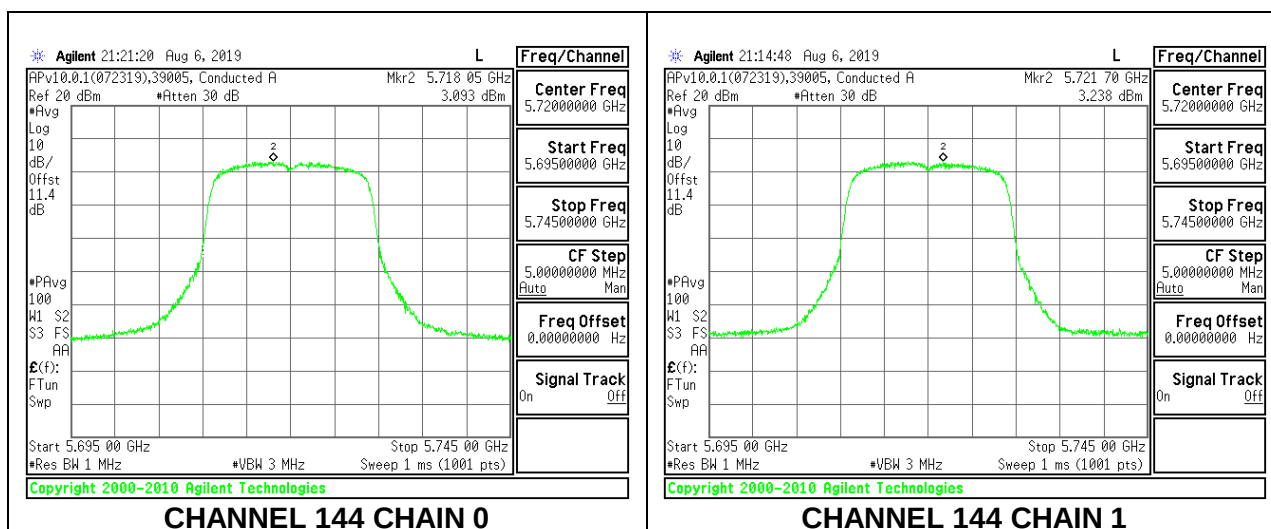
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5500	17.219	6.65	9.54	22.71	7.46
Mid	5580	17.383	6.65	9.54	22.75	7.46
High	5700	17.279	6.65	9.54	22.73	7.46
144*	5720	17.205	6.65	9.54	22.71	7.46

Duty Cycle CF (dB)	0.24	Included in Calculations of Corr'd Power & PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.82	12.97	15.91	22.71	-6.80
Mid	5580	12.88	12.96	15.93	22.75	-6.82
High	5700	12.88	13.03	15.97	22.73	-6.76
144*	5720	13.03	13.26	16.40	22.71	-6.31

PSD Results

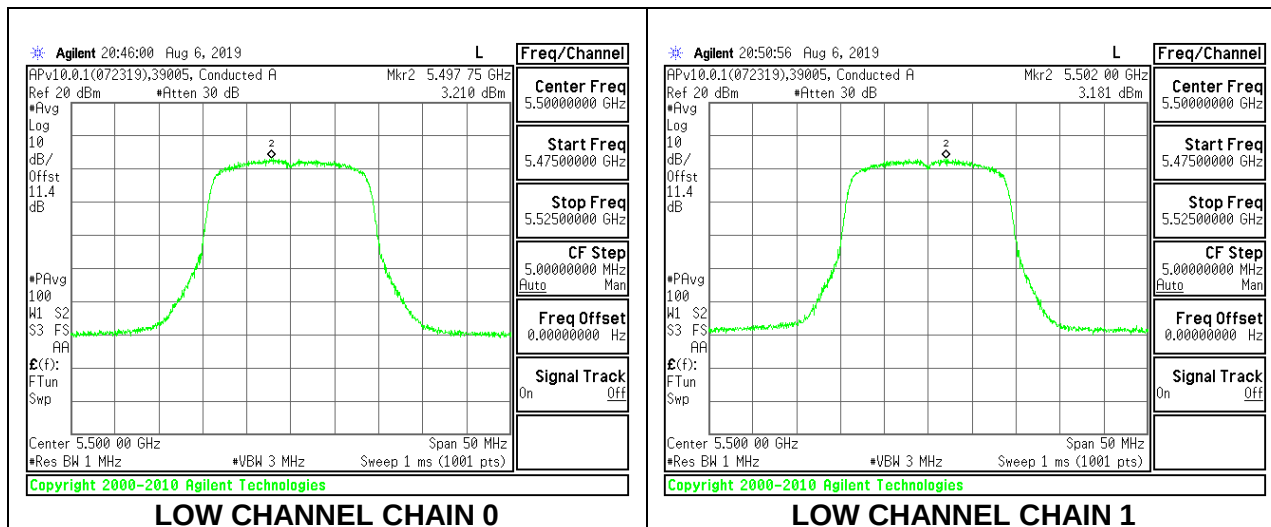
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.21	3.18	6.45	7.46	-1.01
Mid	5580	3.13	3.16	6.40	7.46	-1.06
High	5700	3.19	3.21	6.45	7.46	-1.01
144*	5720	3.09	3.24	6.42	7.46	-1.04

*As per the calculation in this formula, Measured total bandwidth(99%) / 2 + 5 MHz, the worst case bandwidth is 13.603 MHz.

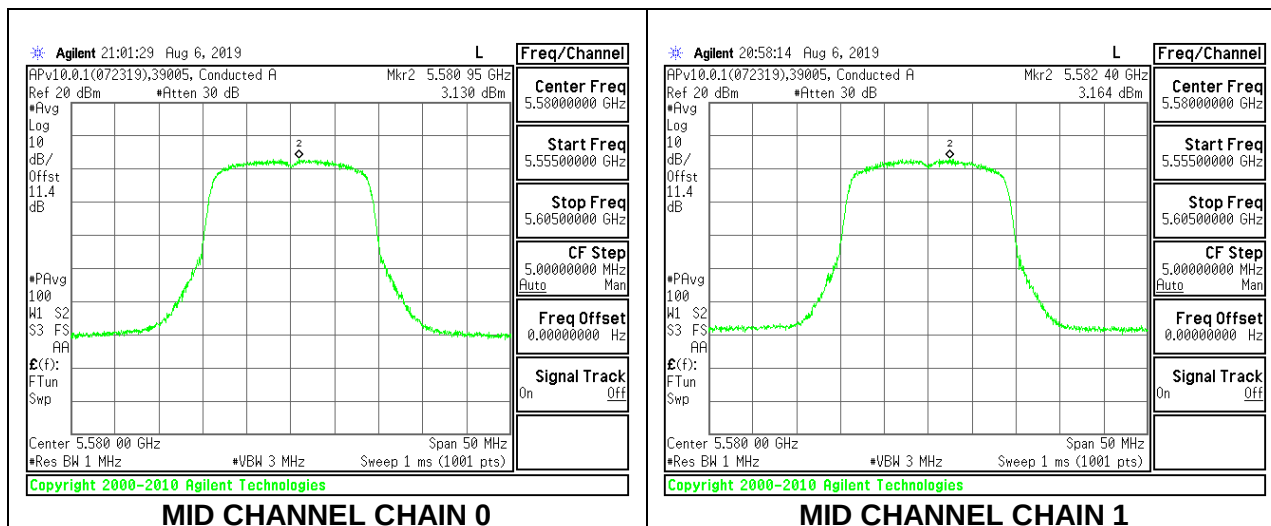
Based on the 13.603 MHz bandwidth for the portion that the straddle channel occupies in the UNII-2C band, the calculated power limit is $17 + 10 \cdot \log(13.603) - 6.65 = 21.69$ dBm. The total signal power is 16.4 dBm which is less than the limit of 21.69 dBm.

Total power and Highest PSD across the entire channel meets the UNII-2C limits thus UNII-3 limits and therefore compliant

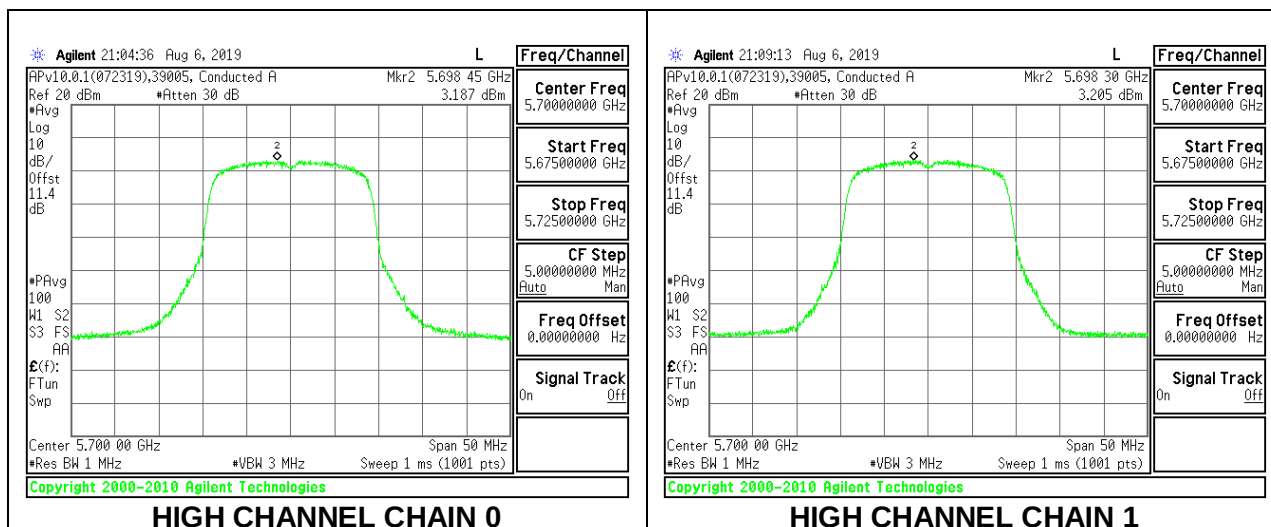
LOW CHANNEL



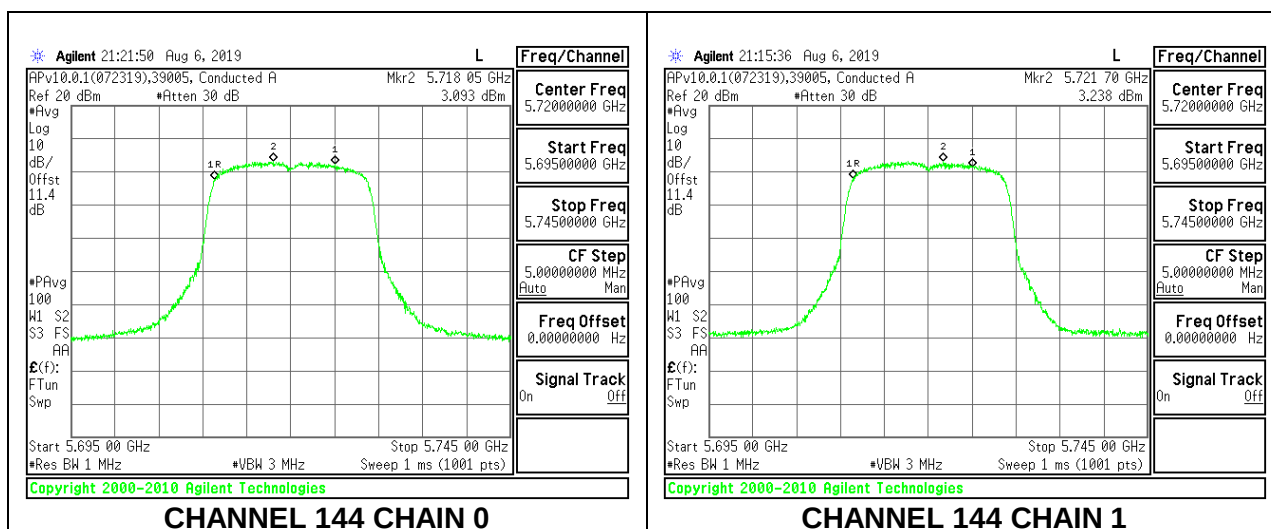
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/ 1MHz)
Low	5510	42.10	6.65	9.54	23.35	7.46
Mid	5550	42.00	6.65	9.54	23.35	7.46
High	5670	41.90	6.65	9.54	23.35	7.46
142*	5710	41.60	6.65	9.54	23.35	7.46

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd Power & PSD
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Output Power Results

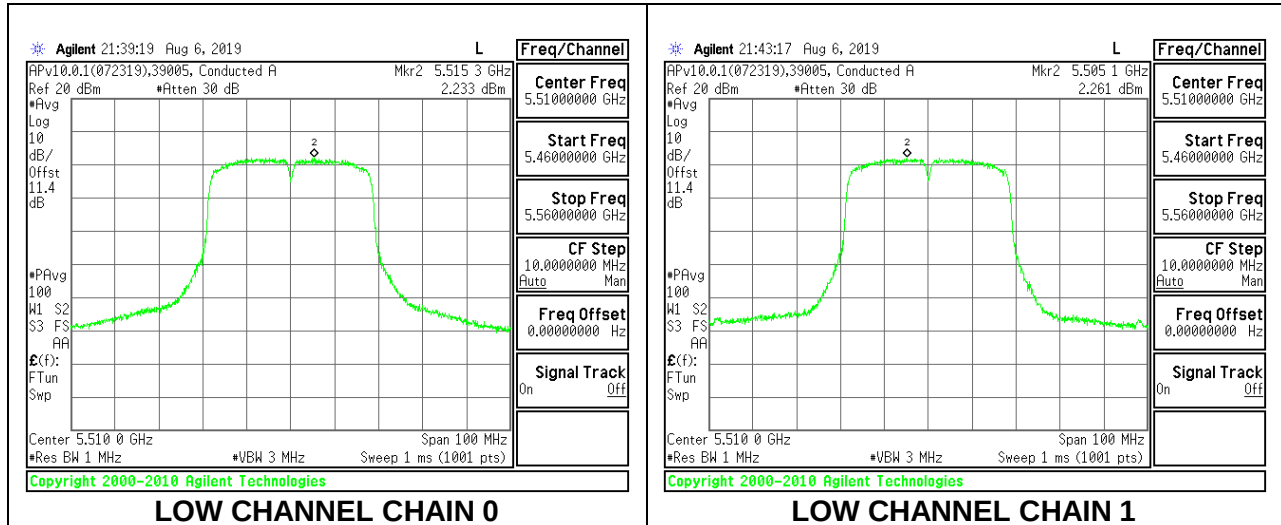
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.04	14.82	17.94	23.35	-5.41
Mid	5550	15.42	15.31	18.38	23.35	-4.97
High	5670	15.07	15.04	18.07	23.35	-5.28
142*	5710	16.17	16.01	19.54	23.35	-3.81

PSD Results

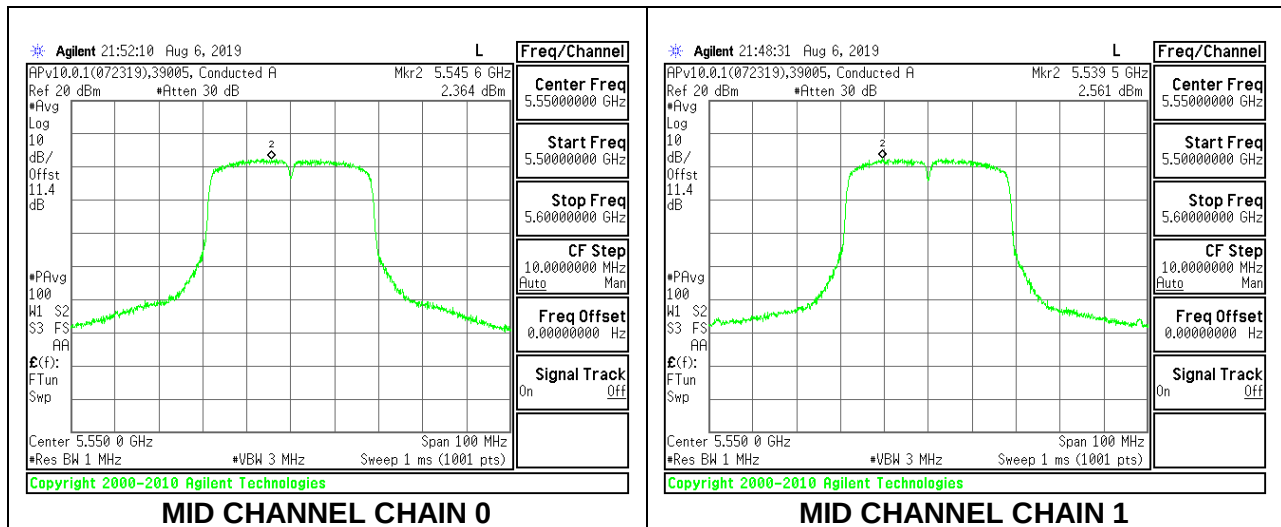
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	2.23	2.26	5.70	7.46	-1.76
Mid	5550	2.36	2.56	5.91	7.46	-1.55
High	5670	2.25	2.20	5.68	7.46	-1.78
142*	5710	2.91	3.09	6.45	7.46	-1.01

*The 26dB bandwidth within the 5470-5725 MHz band clearly exceeds 20MHz and so the limit for the power within the 5470-5725MHz band is 23.35dBm

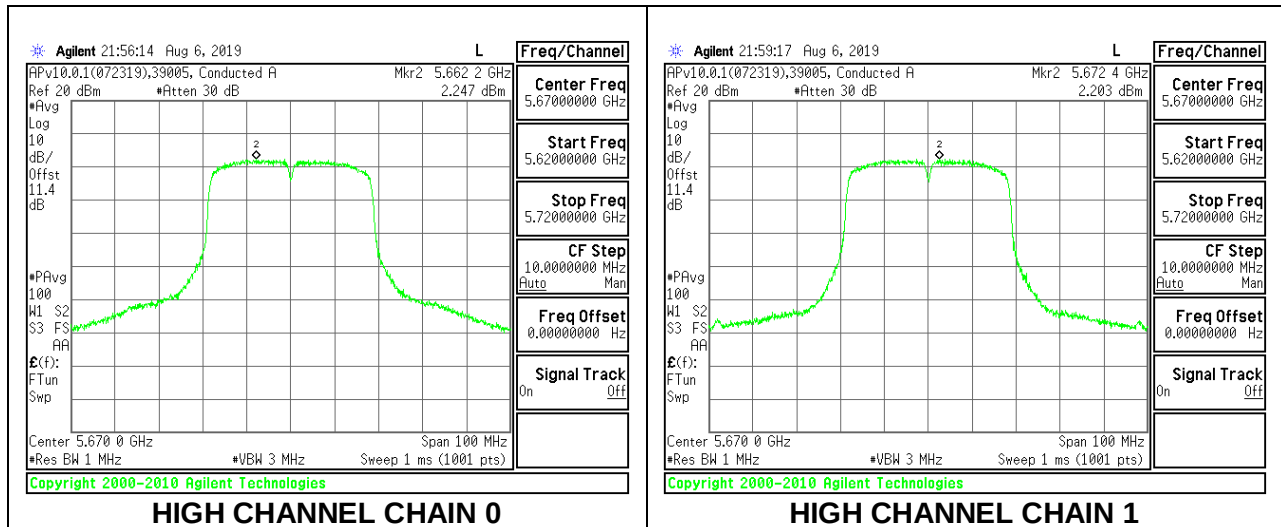
LOW CHANNEL



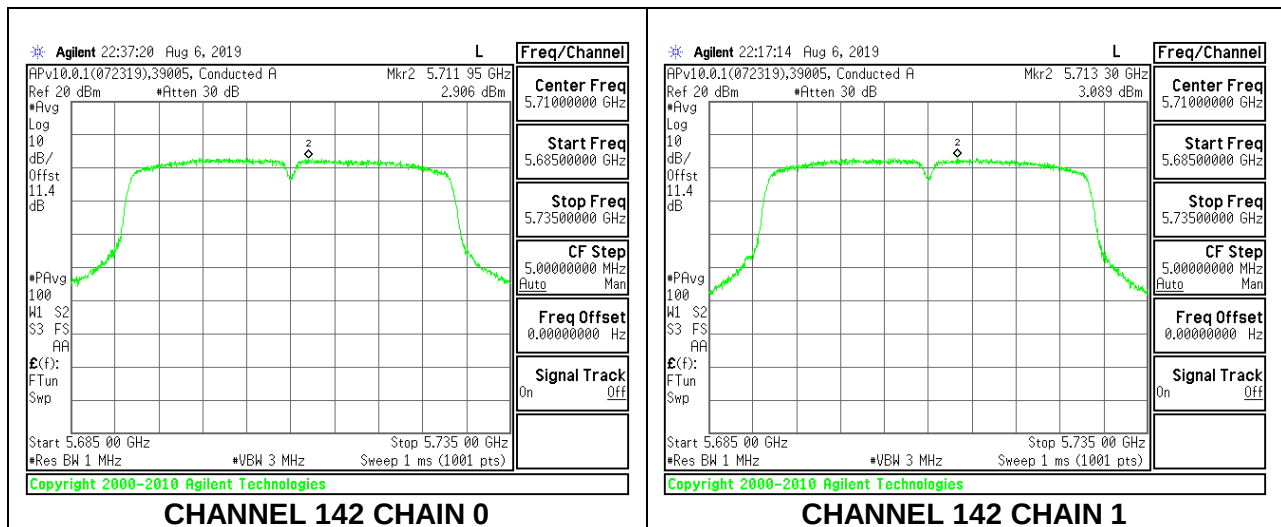
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5510	35.776	6.65	9.54	23.35	7.46
Mid	5550	35.773	6.65	9.54	23.35	7.46
High	5670	35.740	6.65	9.54	23.35	7.46
142*	5710	35.639	6.65	9.54	23.35	7.46

Duty Cycle CF (dB)	0.44	Included in Calculations of Corr'd Power & PSD
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Output Power Results

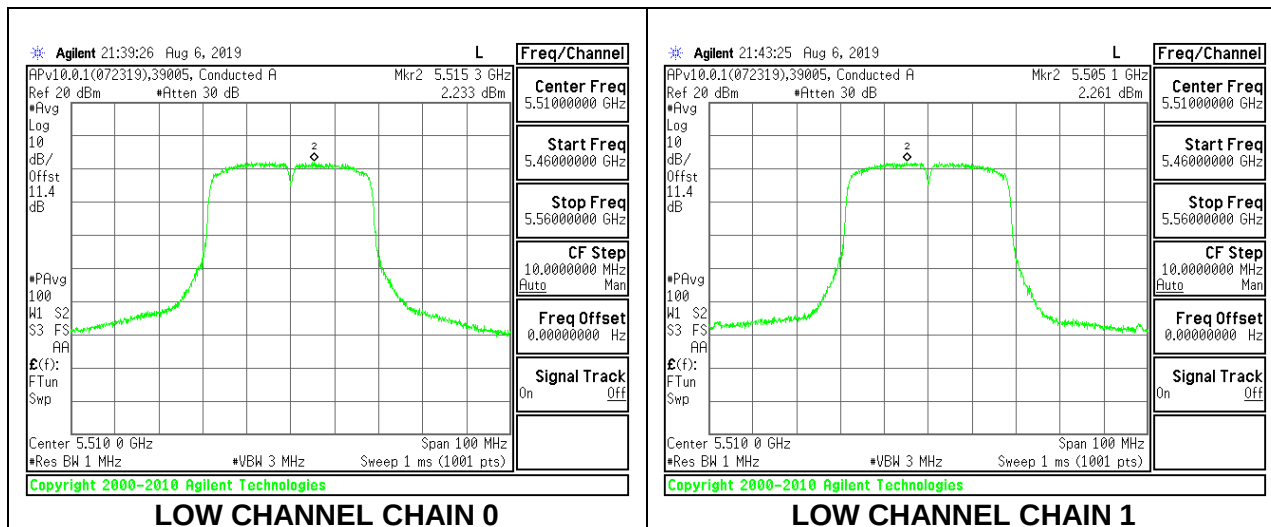
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.04	14.82	17.94	23.35	-5.41
Mid	5550	15.42	15.31	18.38	23.35	-4.97
High	5670	15.07	15.04	18.07	23.35	-5.28
142*	5710	16.17	16.01	19.54	23.35	-3.81

PSD Results

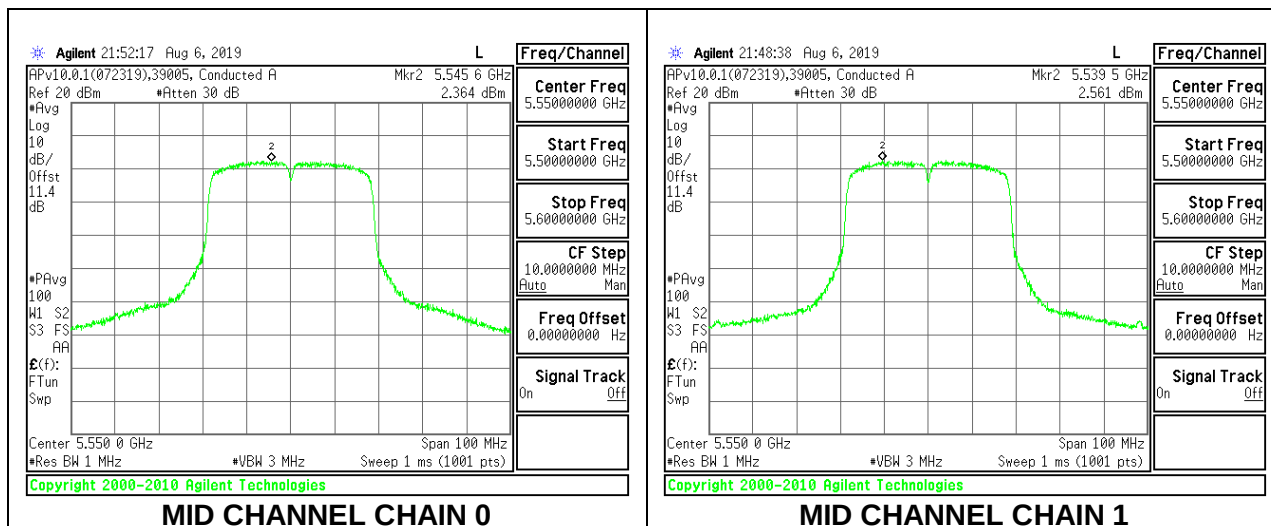
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	-2.95	-3.06	0.45	7.46	-7.01
Mid	5550	2.36	2.56	5.91	7.46	-1.55
High	5670	2.25	2.20	5.68	7.46	-1.78
142*	5710	2.91	3.09	6.45	7.46	-1.01

*The 99% signal bandwidth within the 5470-5725 MHz band clearly exceed 20MHz and so the limit for the power within the 5470-5725MHz band is 23.35dBm

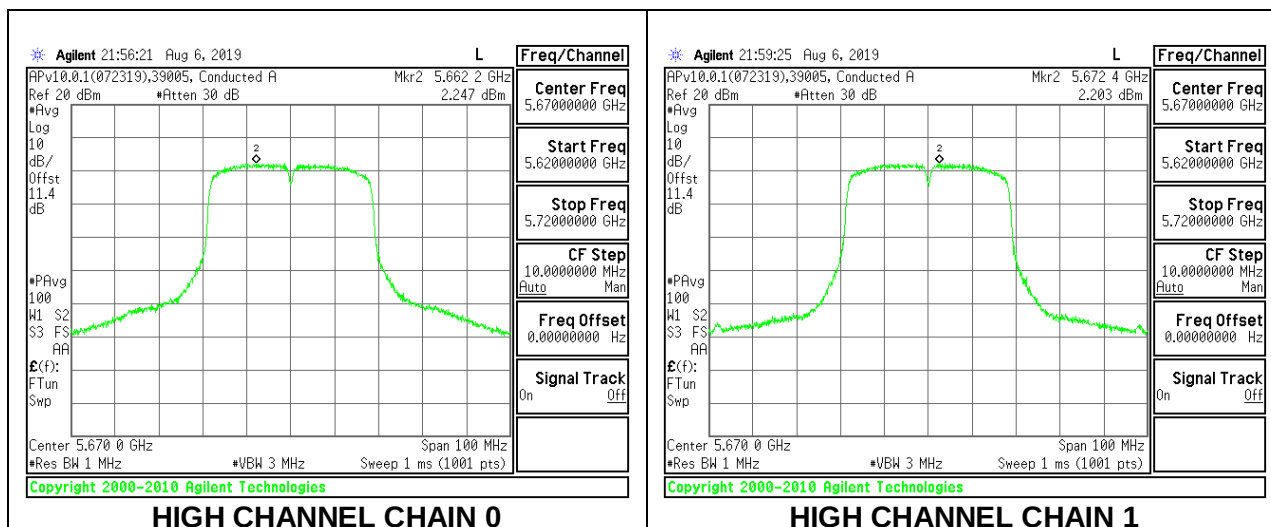
LOW CHANNEL



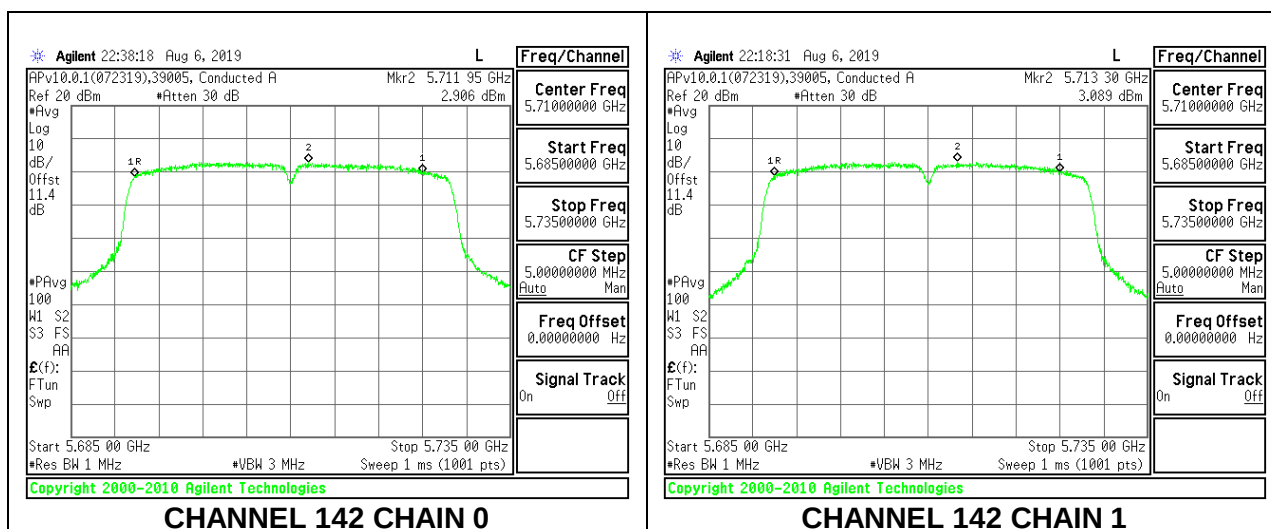
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



8.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

2TX Antenna 1 + Antenna 2 CDD MODE (FCC)

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/ 1MHz)
Low	5530	85.20	6.65	9.54	23.35	7.46
High	5610	85.40	6.65	9.54	23.35	7.46
138*	5690	85.00	6.65	9.54	23.35	7.46

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd Power & PSD
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Output Power Results

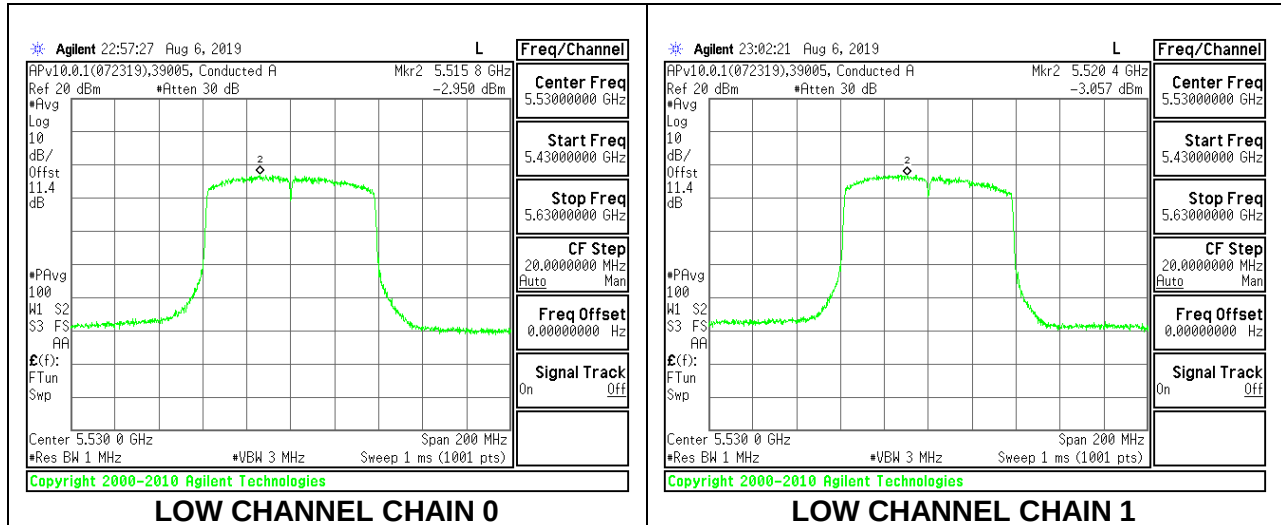
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.46	13.35	16.42	23.35	-6.93
High	5610	13.04	13.13	16.10	23.35	-7.25
138*	5690	15.95	16.04	19.83	23.35	-3.52

PSD Results

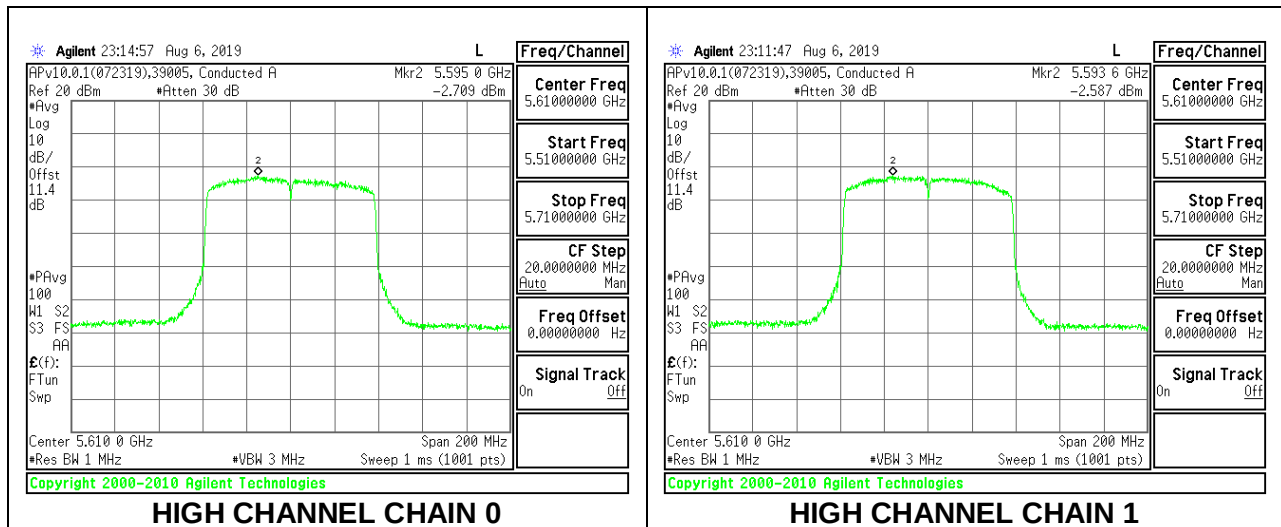
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-2.95	-3.06	0.83	7.46	-6.63
High	5610	-2.71	-2.59	1.18	7.46	-6.28
138*	5690	0.31	0.23	4.10	7.46	-3.36

*The 26dB signal bandwidth within the 5470-5725 MHz band clearly exceeds 20MHz and so the limit for the power within the 5470-5725MHz band is 23.35dBm

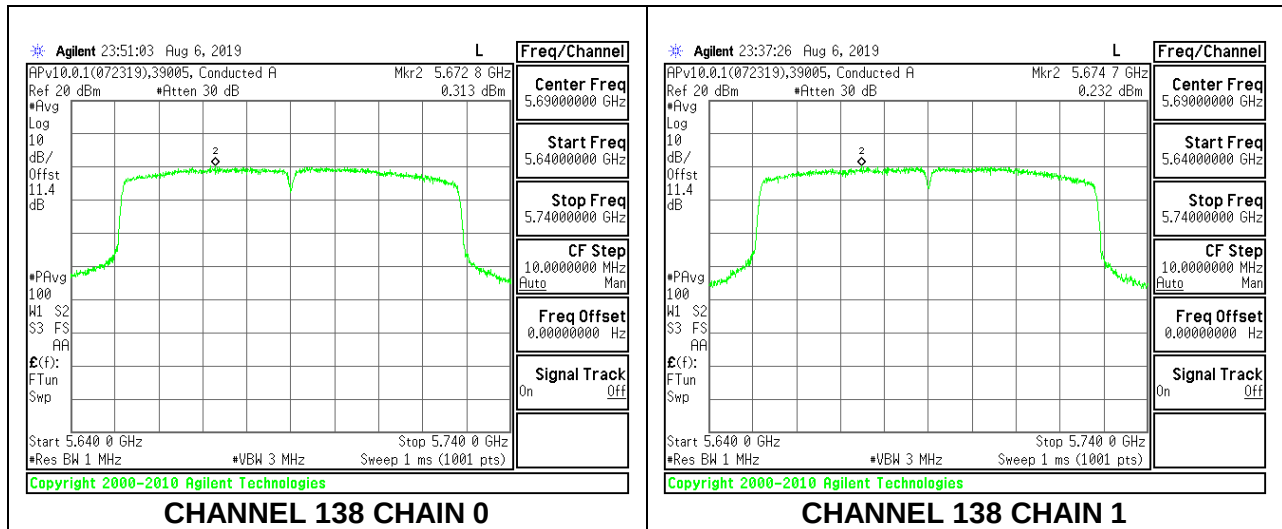
LOW CHANNEL



HIGH CHANNEL



CHANNEL 138



2TX Antenna 1 + Antenna 2 CDD MODE (IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	74.931	6.65	9.54	23.35	7.46
High	5610	74.922	6.65	9.54	23.35	7.46
138*	5690	74.947	6.65	9.54	23.35	7.46

Duty Cycle CF (dB)	0.82	Included in Calculations of Corr'd Power & PSD
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Output Power Results

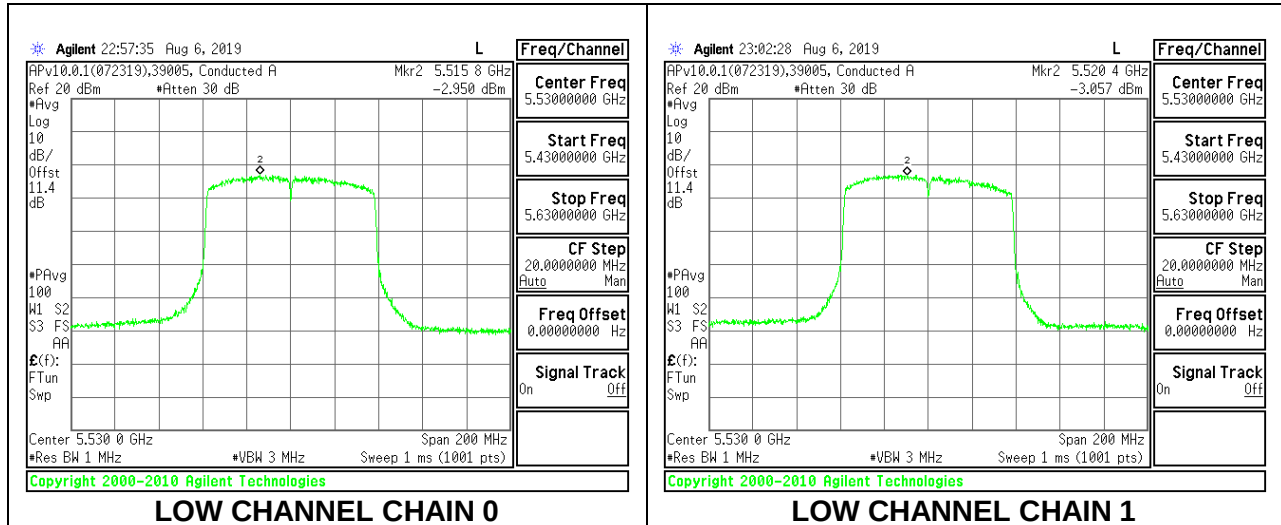
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.46	13.35	16.42	23.35	-6.93
High	5610	13.04	13.13	16.10	23.35	-7.25
138*	5690	15.95	16.04	19.83	23.35	-3.52

PSD Results

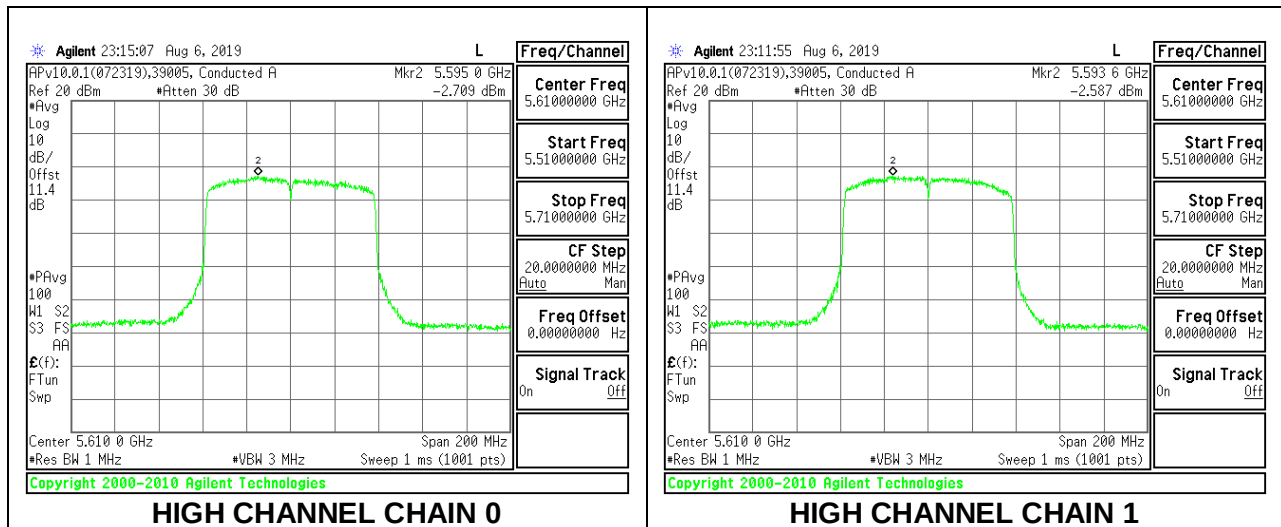
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-2.95	-3.06	0.83	7.46	-6.63
High	5610	-2.71	-2.59	1.18	7.46	-6.28
138*	5690	0.31	0.23	4.10	7.46	-3.36

*The 99% signal bandwidth within the 5470-5725 MHz band clearly exceed 20MHz and so the limit for the power within the 5470-5725MHz band is 23.35dBm

LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

