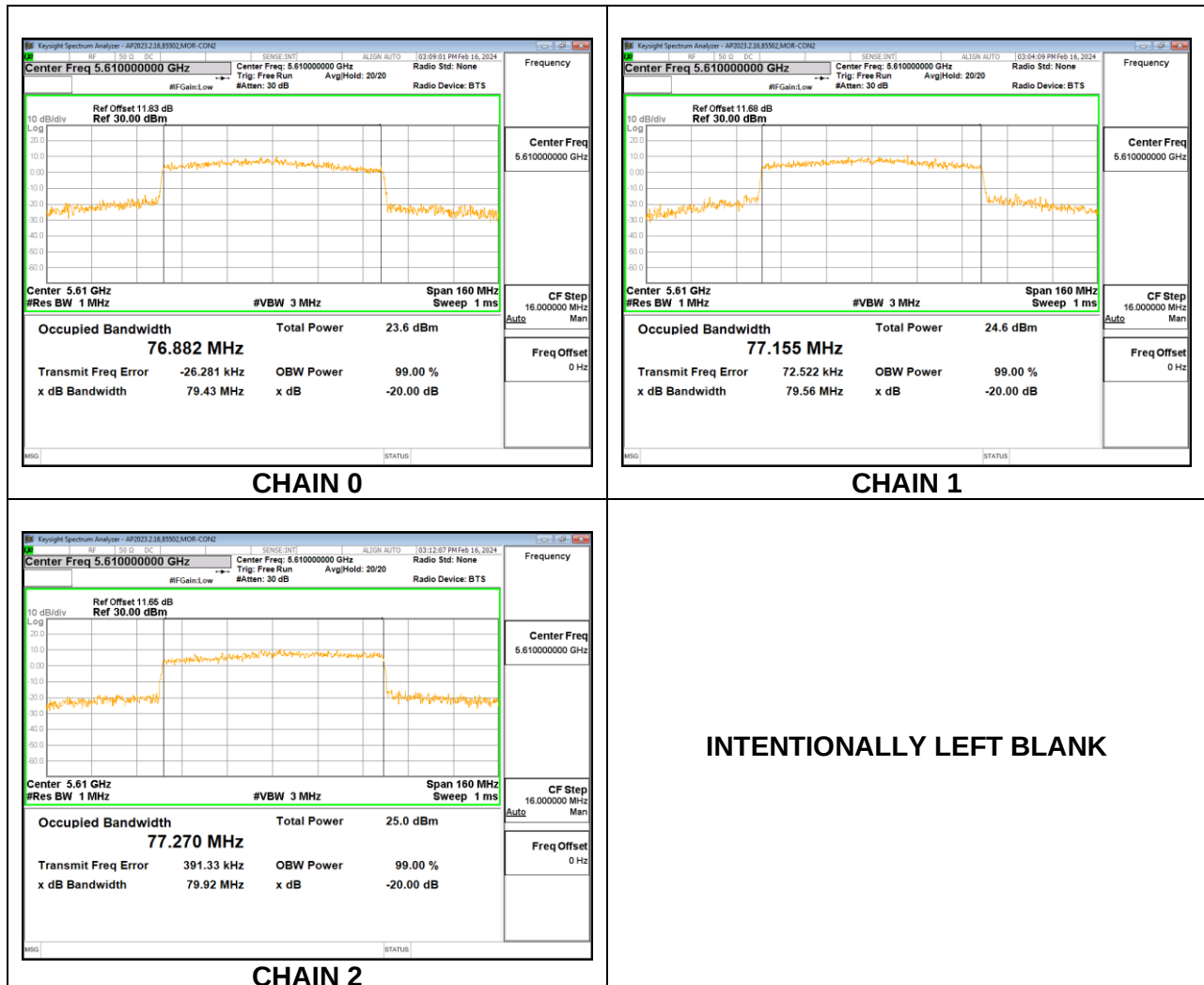


9.4.21. 802.11ax HE80 MODE IN THE 5.6 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE – SU

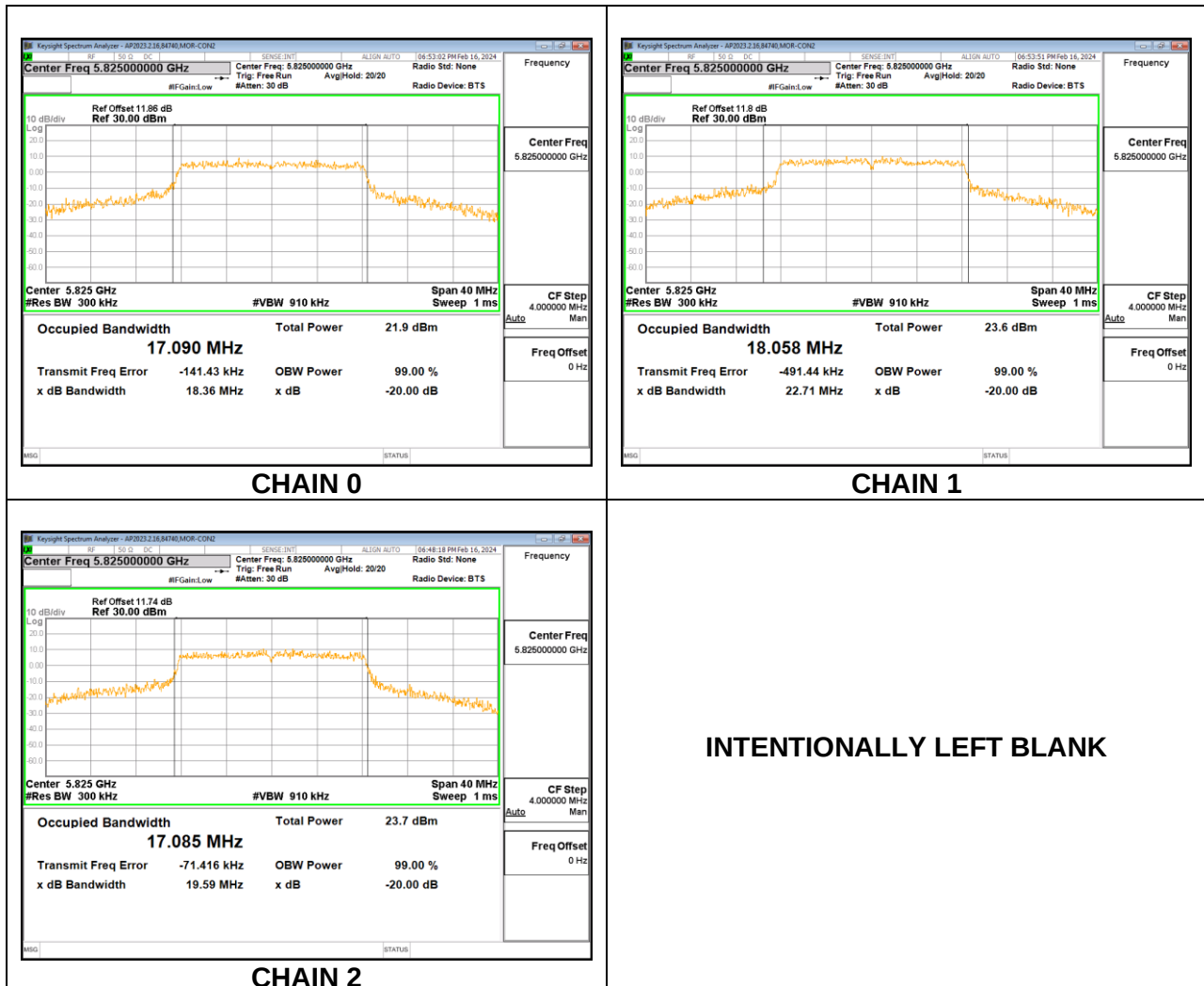
Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)	99% Bandwidth Chain 2 (MHz)
Low	5530	77.36	77.04	77.09



9.4.22. 802.11a MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

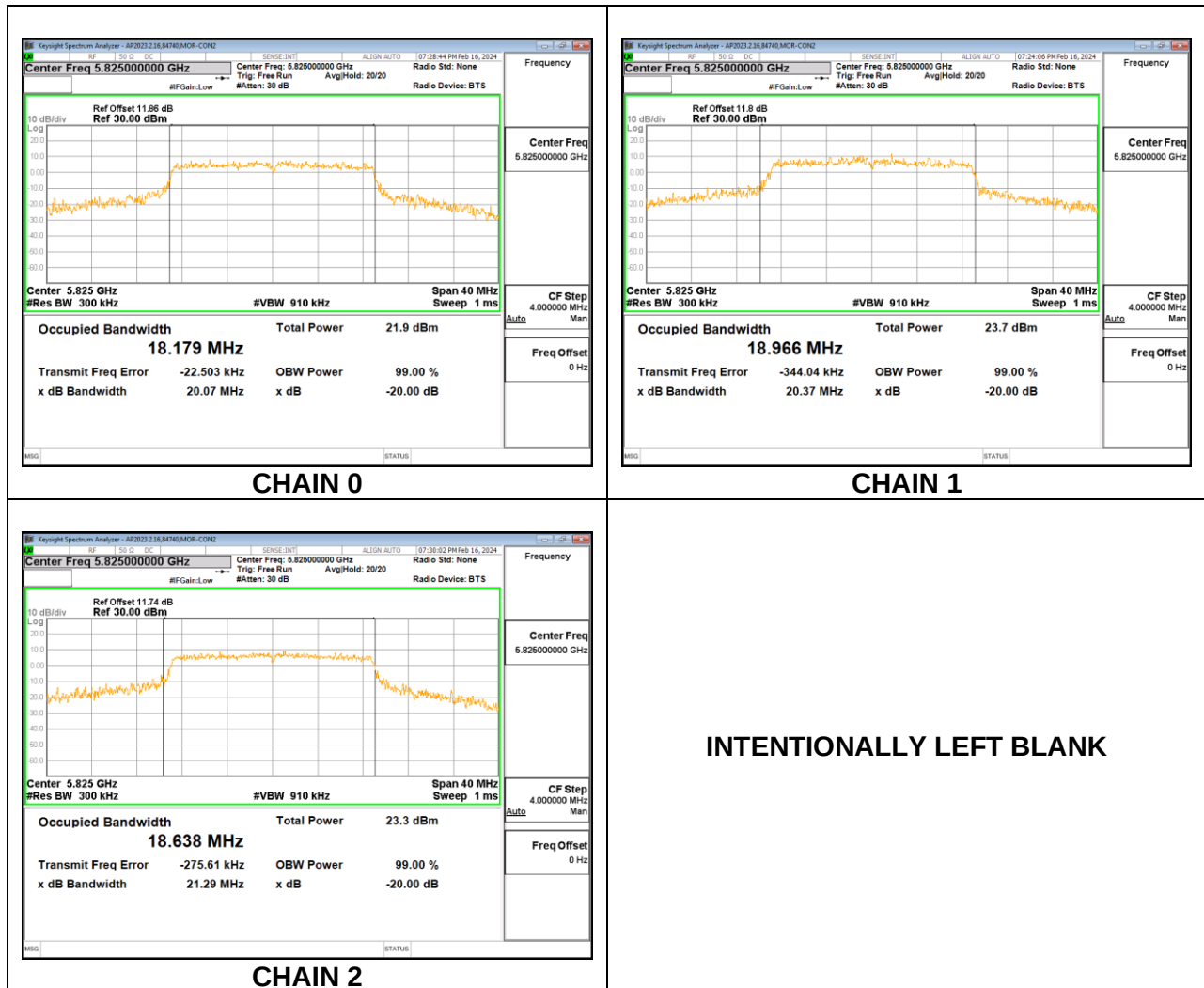
Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Low	5745	16.899	16.911	16.742
Mid	5785	16.871	17.053	16.710
High	5825	17.090	18.058	17.085



9.4.23. 802.11n HT20 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

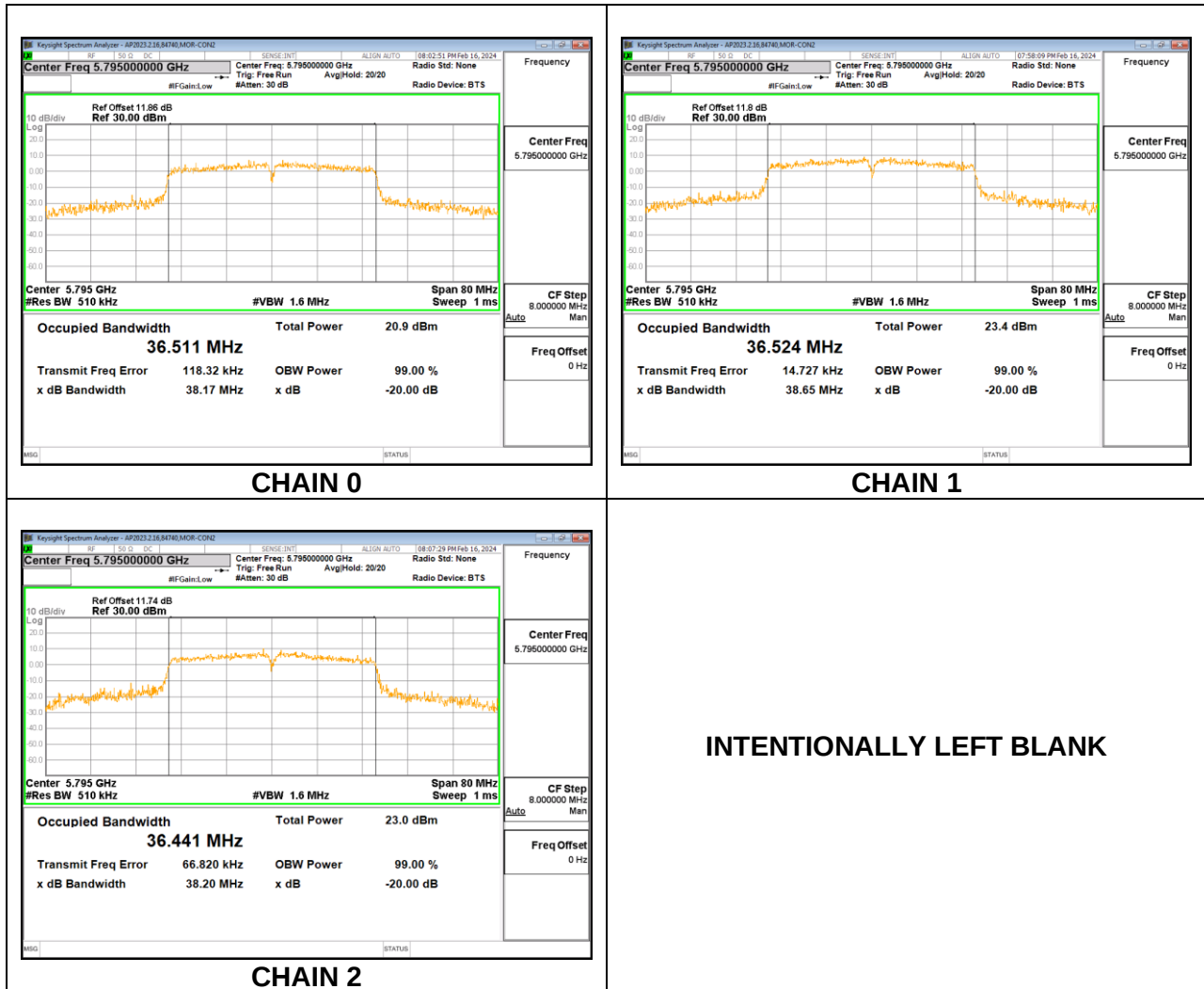
Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Low	5745	18.170	18.098	17.961
Mid	5785	18.125	18.163	17.960
High	5825	18.179	18.966	18.638



9.4.24. 802.11n HT40 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

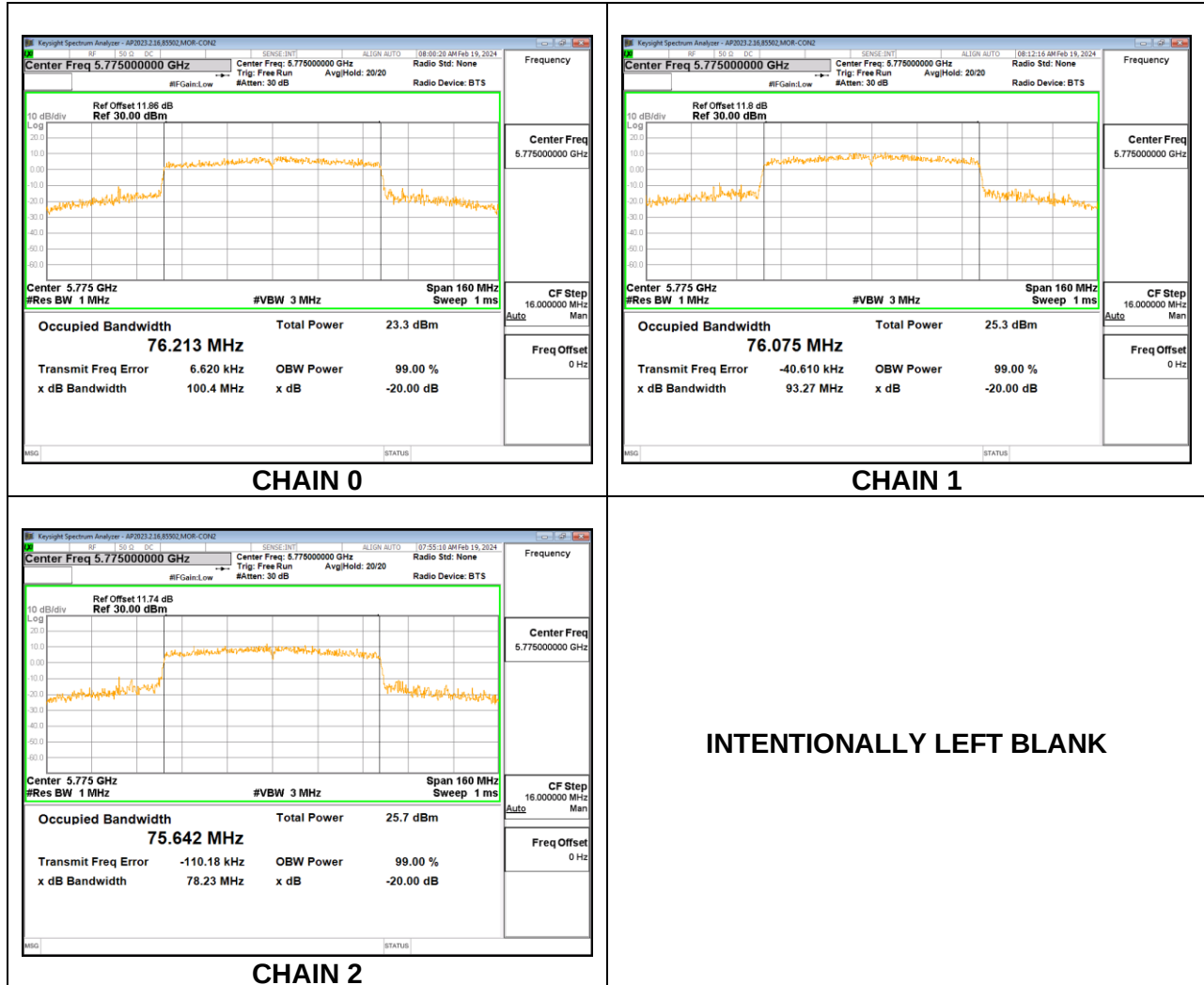
Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Low	5755	36.241	36.507	36.361
High	5795	36.511	36.524	36.441



9.4.25. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Mid	5775	76.213	76.075	75.642



9.4.26. 802.11ax HE20 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE: SU

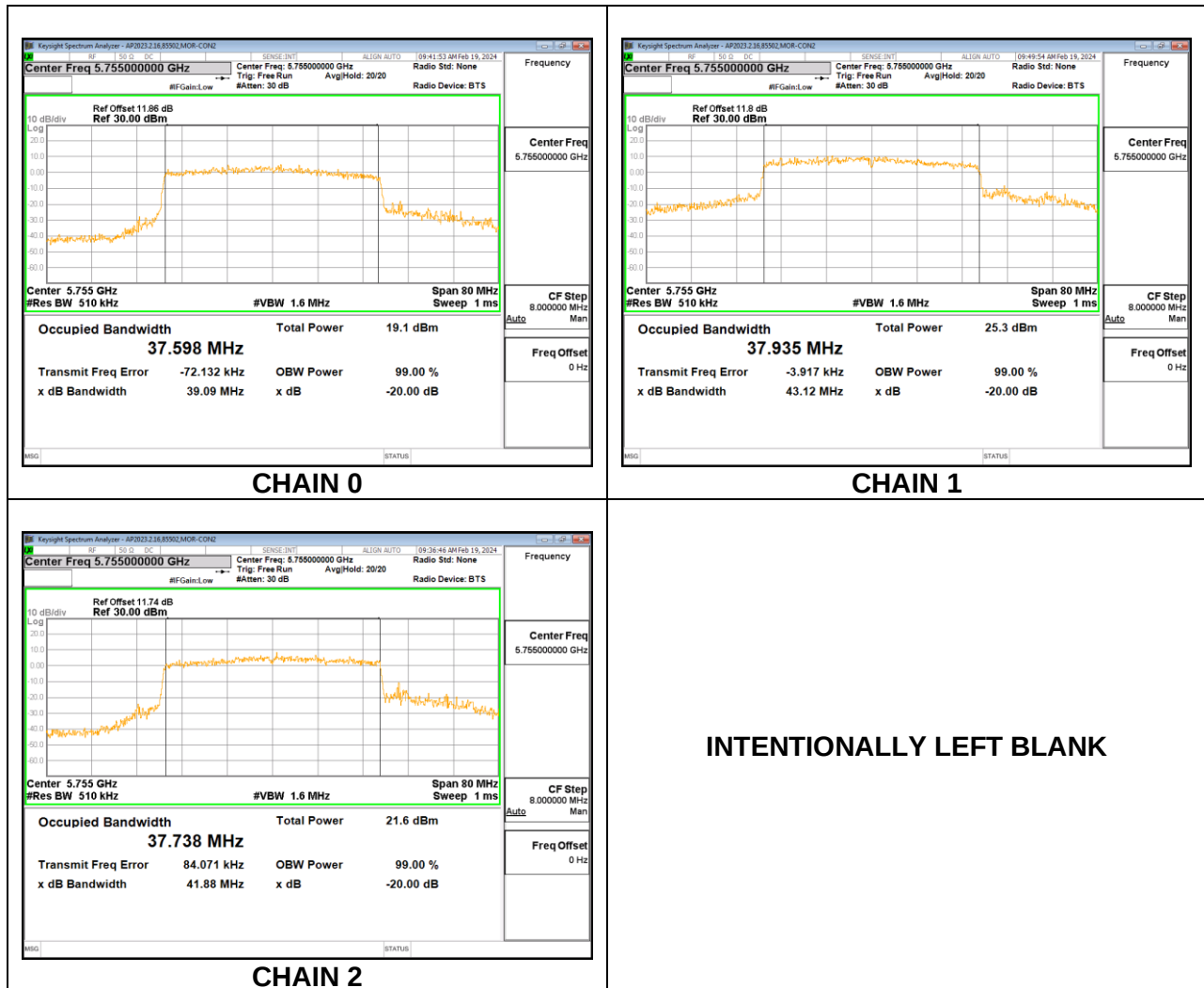
Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Low	5745	19.172	19.062	19.075
Mid	5785	19.080	19.165	19.150
High	5825	19.279	19.271	19.343



9.4.27. 802.11ax HE40 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE: SU

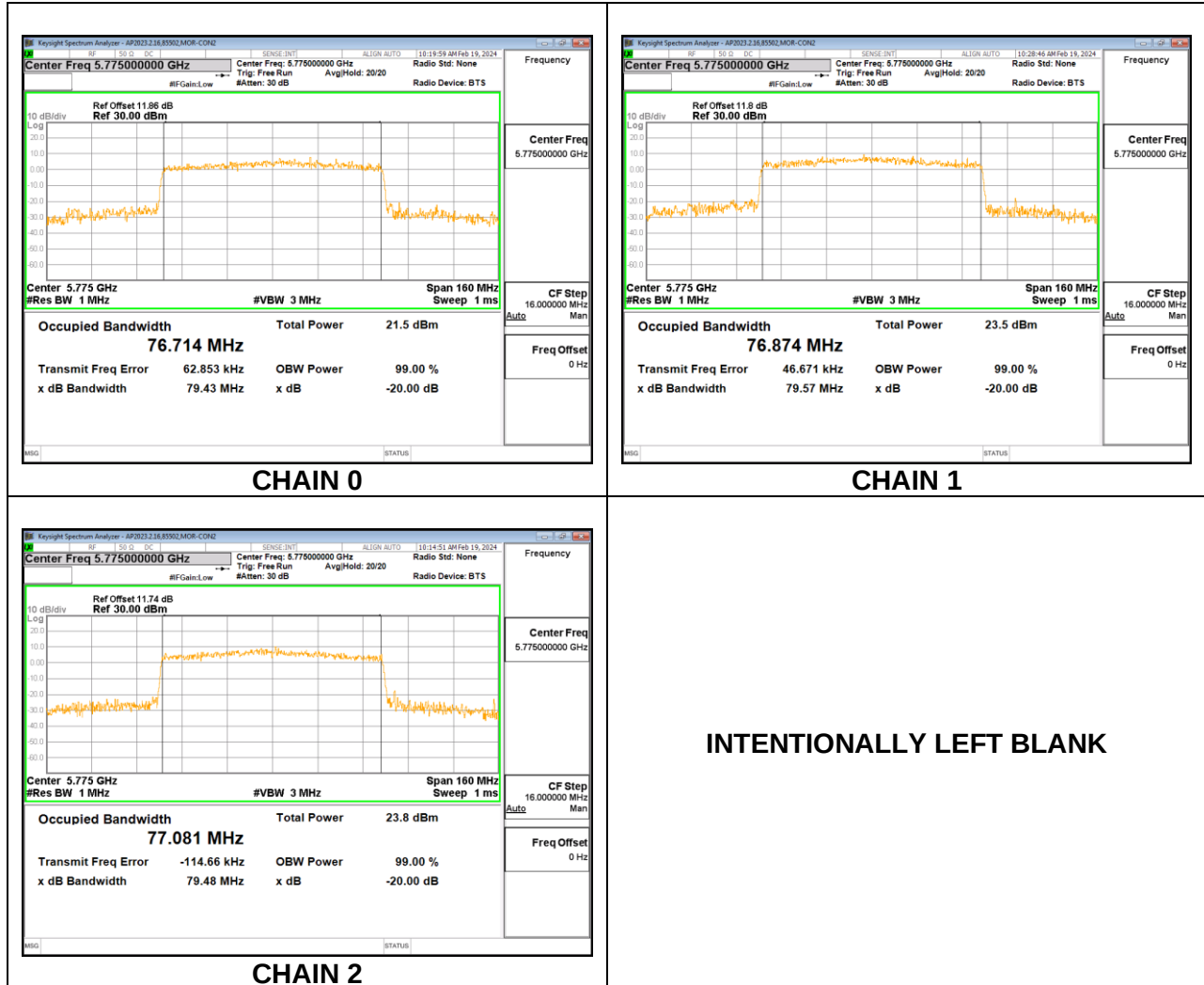
Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Low	5755	37.598	37.935	37.738
High	5795	37.661	37.572	37.454



9.4.28. 802.11ax HE80 MODE IN THE 5.8 GHz BAND

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE: SU

Channel	Frequency (MHz)	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)	99% BW CHAIN 2 (MHz)
Mid	5775	76.714	76.874	77.081



9.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

(iv) 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 provided the maximum antenna gain does not exceed 6 dBi. In addition, 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.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, 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.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

RSS-247

Band 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband average power sensor. Gated average output power was read directly from power meter.

DIRECTIONAL ANTENNA GAINS

Tx chains are uncorrelated for power and correlated for PSD. The directional gains as declared by manufacturer are as follows:

Mode	Declared Uncorrelated Gain (dBi)	Declared Correlated Gain (dBi)
UNII-1	0.80	4.80
UNII-2a	0.80	4.90
UNII-2c	2.20	6.10
UNII-3	1.80	5.80

9.5.1. 802.11a MODE IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	84740
Test Date:	2024/02/14

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	16.6480	0.80	4.80
Mid	5200	16.6720	0.80	4.80
High	5240	16.5830	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.21	21.41	21.41	11.00	10.00	5.20
Mid	5200	24.00	22.22	21.42	21.42	11.00	10.00	5.20
High	5240	24.00	22.20	21.40	21.40	11.00	10.00	5.20

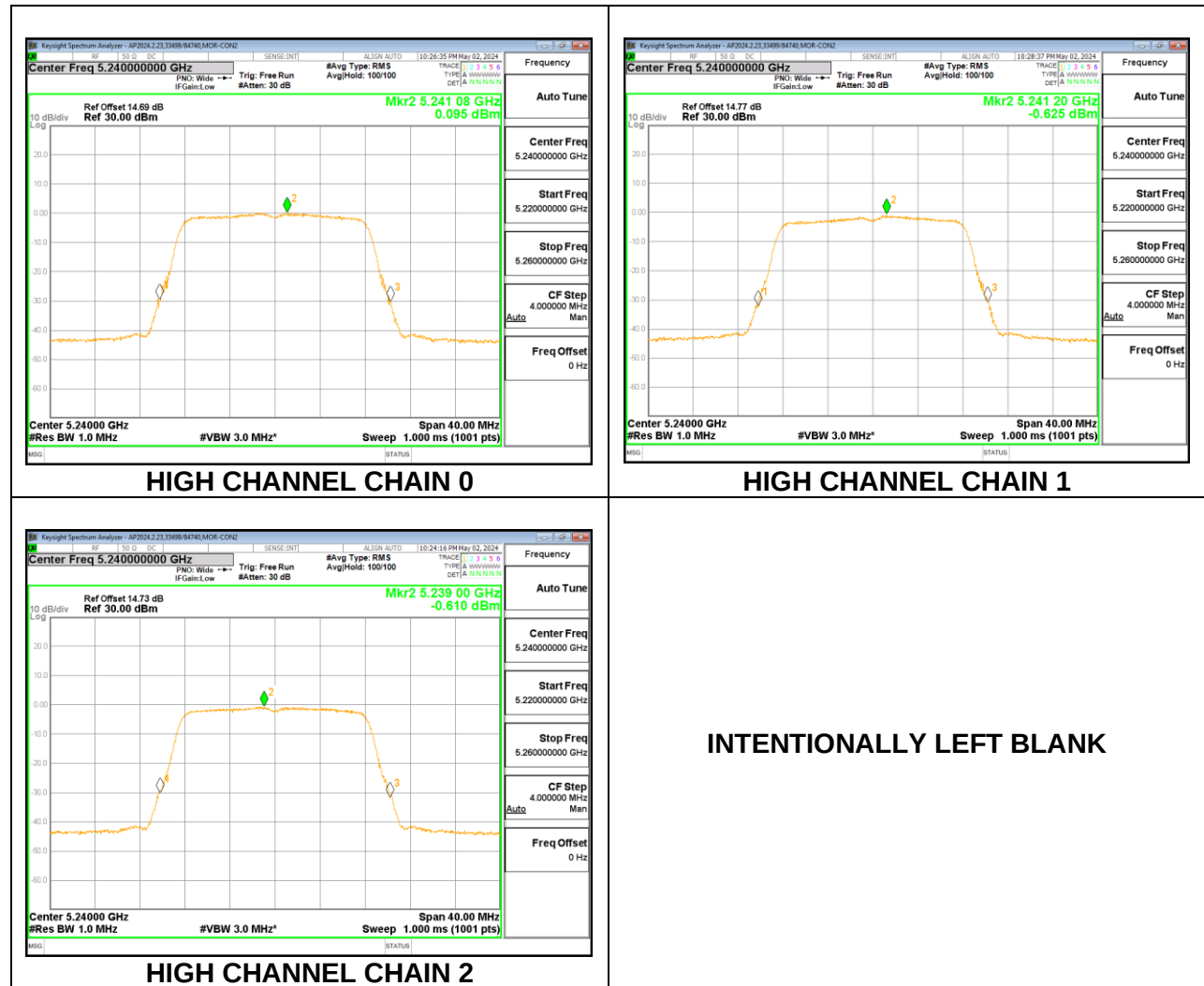
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.65	9.40	10.47	14.98	21.41	-6.44
Mid	5200	10.54	9.52	10.43	14.96	21.42	-6.46
High	5240	11.21	10.10	10.66	15.45	21.40	-5.95

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	-0.575	-1.703	-0.784	3.87	5.20	-1.33
Mid	5200	-0.507	-1.280	-0.594	4.08	5.20	-1.12
High	5240	0.095	-0.625	-0.610	4.49	5.20	-0.71



9.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	17.8790	0.80	4.80
Mid	5200	17.9500	0.80	4.80
High	5240	17.7980	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.52	21.72	21.72	11.00	10.00	5.20
Mid	5200	24.00	22.54	21.74	21.74	11.00	10.00	5.20
High	5240	24.00	22.50	21.70	21.70	11.00	10.00	5.20

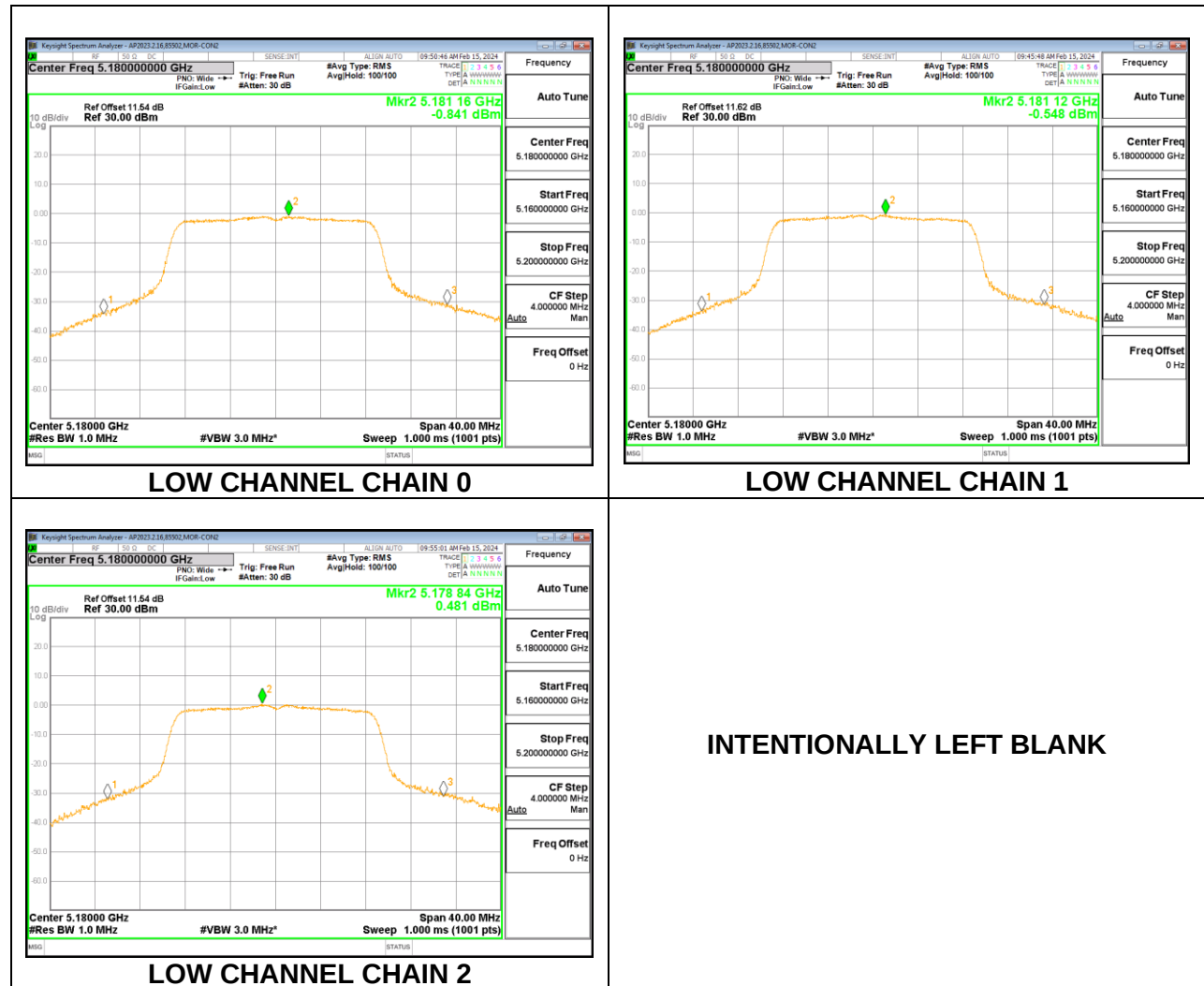
Duty Cycle CF (dB)	0.11	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	11.33	10.24	11.05	15.67	21.72	-6.05
Mid	5200	11.18	10.13	11.06	15.59	21.74	-6.15
High	5240	11.38	10.23	10.71	15.57	21.70	-6.13

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	-0.84	-0.55	0.48	4.62	5.20	-0.58
Mid	5200	-0.89	-0.44	-0.06	4.43	5.20	-0.77
High	5240	-0.27	-0.80	-0.40	4.40	5.20	-0.80



9.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502
Test Date:	2024/02/15

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	36.1320	0.80	4.80
High	5230	36.0600	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	24.00	23.00	22.20	22.20	11.00	10.00	5.20
High	5230	24.00	23.00	22.20	22.20	11.00	10.00	5.20

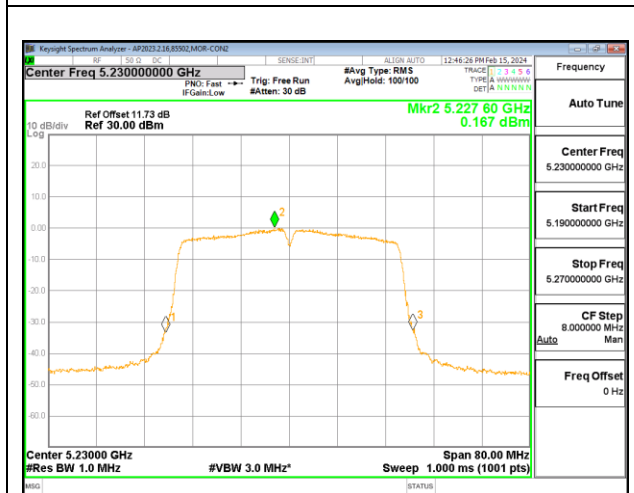
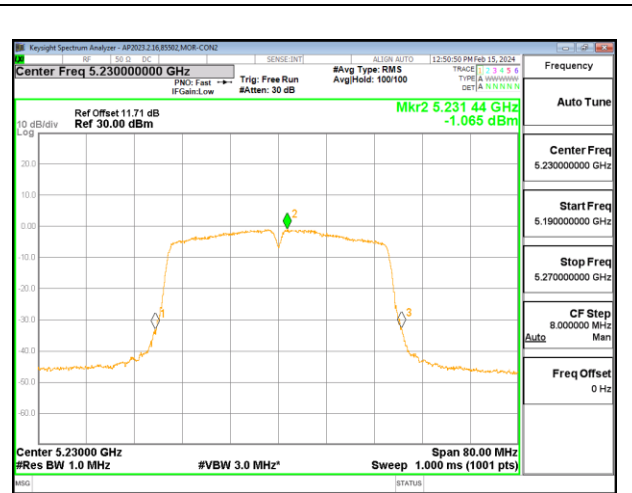
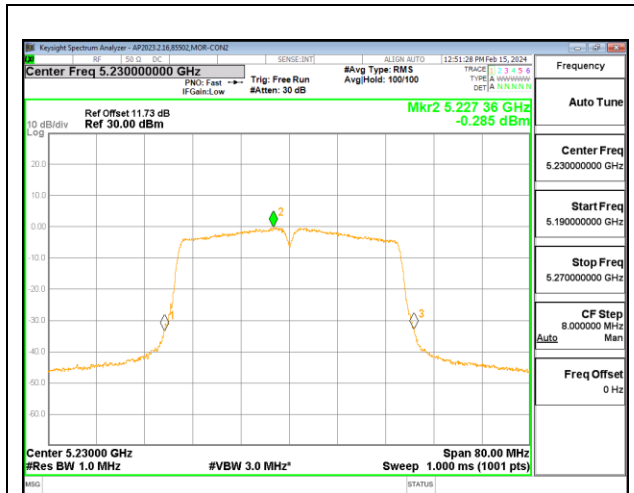
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.31	12.14	13.22	17.69	22.20	-4.51
High	5230	13.63	12.63	13.27	17.97	22.20	-4.23

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-0.52	-0.75	-0.19	4.41	5.20	-0.79
High	5230	-0.29	-1.07	0.17	4.53	5.20	-0.67



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9.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	75.2120	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	24.00	23.00	22.20	22.20	11.00	10.00	5.20

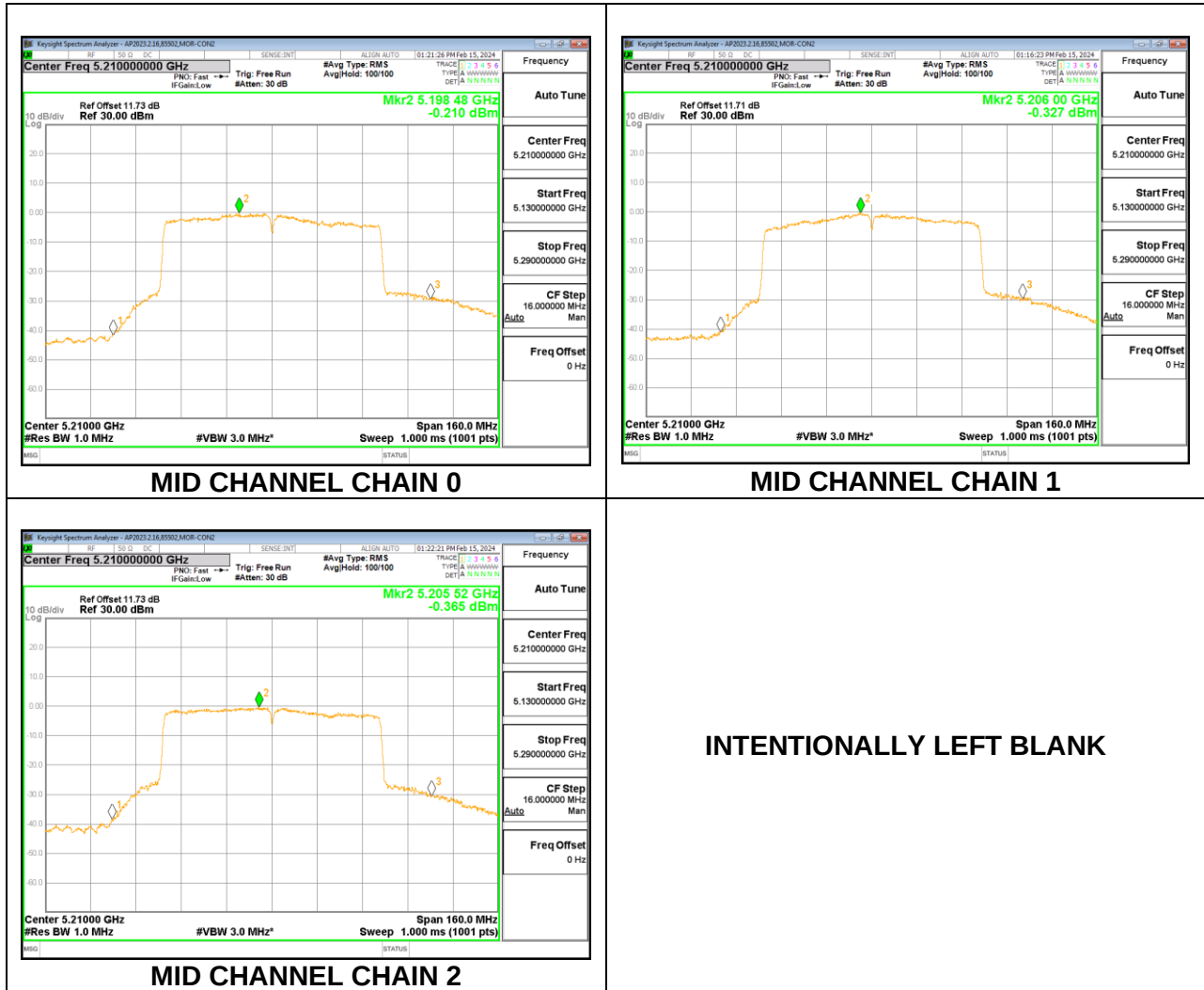
Duty Cycle CF (dB)	0.23	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	13.41	12.52	13.21	17.83	22.20	-4.37

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-0.21	-0.33	-0.37	4.70	5.20	-0.50



9.5.5. 802.11ax HE20 MODE 3TX IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	85502
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	19.0420	0.80	4.80
Mid	5200	18.9790	0.80	4.80
High	5240	18.9110	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.80	22.00	22.00	11.00	10.00	5.20
Mid	5200	24.00	22.78	21.98	21.98	11.00	10.00	5.20
High	5240	24.00	22.77	21.97	21.97	11.00	10.00	5.20

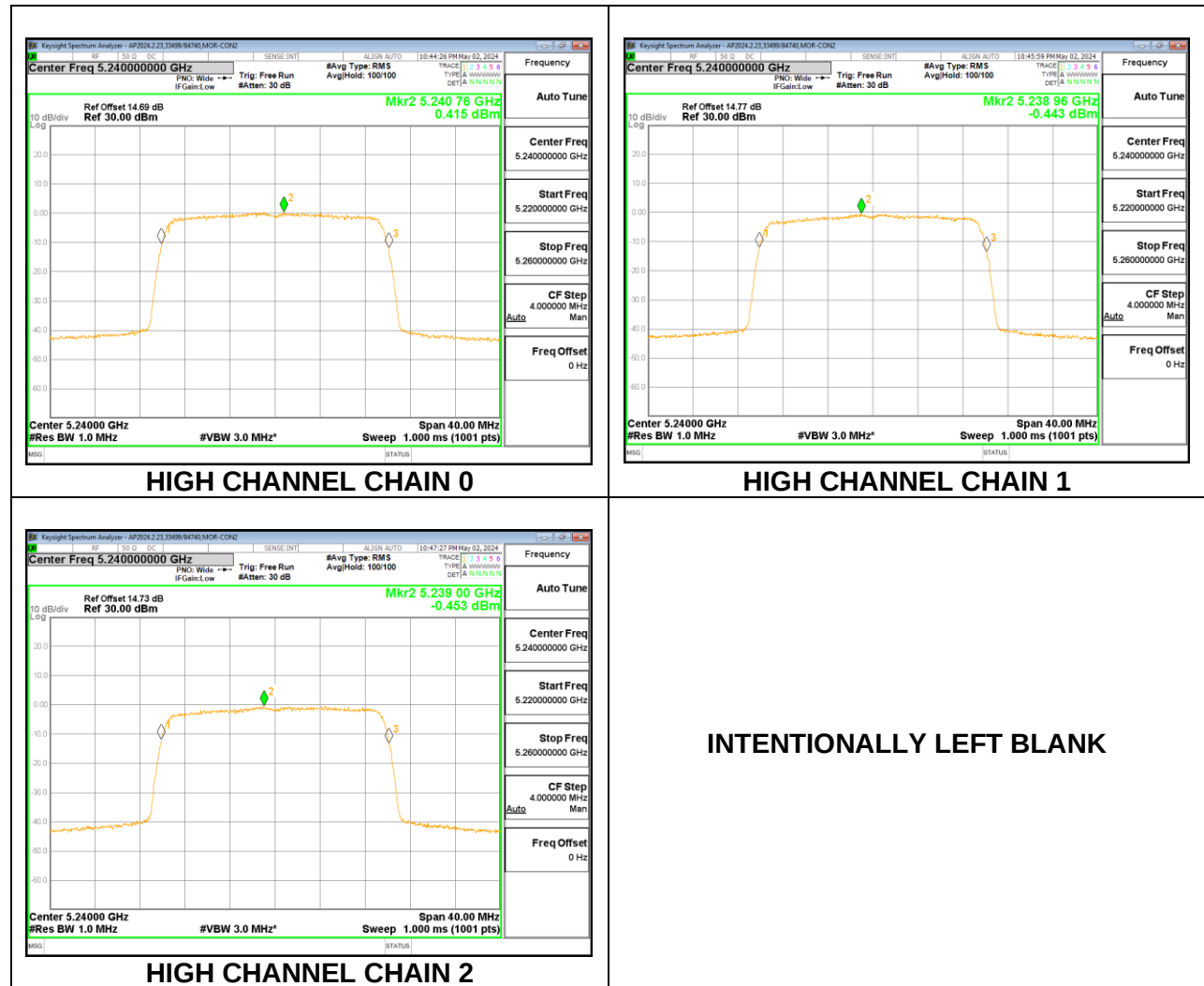
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	11.19	10.25	10.94	15.58	22.00	-6.41
Mid	5200	11.12	10.28	11.01	15.59	21.98	-6.39
High	5240	11.90	10.93	11.32	16.17	21.97	-5.79

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Chain 2 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	-0.707	-1.465	-0.822	3.79	5.20	-1.41
Mid	5200	-0.760	-1.525	-0.567	3.84	5.20	-1.36
High	5240	0.415	-0.443	-0.453	4.63	5.20	-0.57



9.5.6. 802.11ax HE40 MODE 3TX IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	85502
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	37.4870	0.80	4.80
High	5230	37.3620	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	24.00	23.00	22.20	22.20	11.00	10.00	5.20
High	5230	24.00	23.00	22.20	22.20	11.00	10.00	5.20

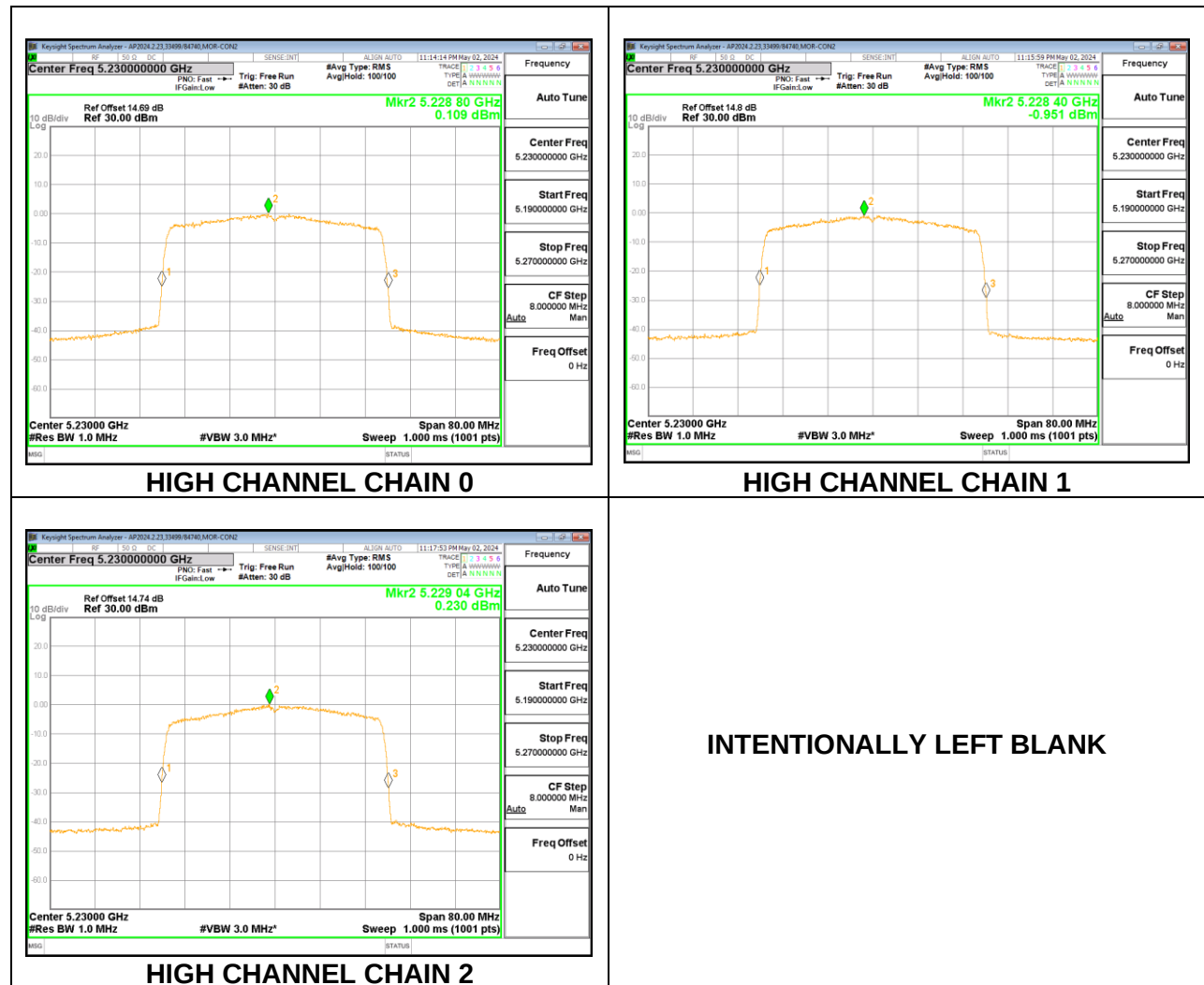
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	13.37	12.35	13.23	17.78	22.20	-4.42
High	5230	13.79	12.85	13.50	18.17	22.20	-4.03

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-0.598	-1.365	-0.351	4.14	5.20	-1.06
High	5230	0.109	-0.951	0.230	4.72	5.20	-0.48



9.5.7. 802.11ax HE80 MODE 3TX IN THE 5.2 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	85502
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	76.6859	0.80	4.80

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	24.00	23.00	22.20	22.20	11.00	10.00	5.20

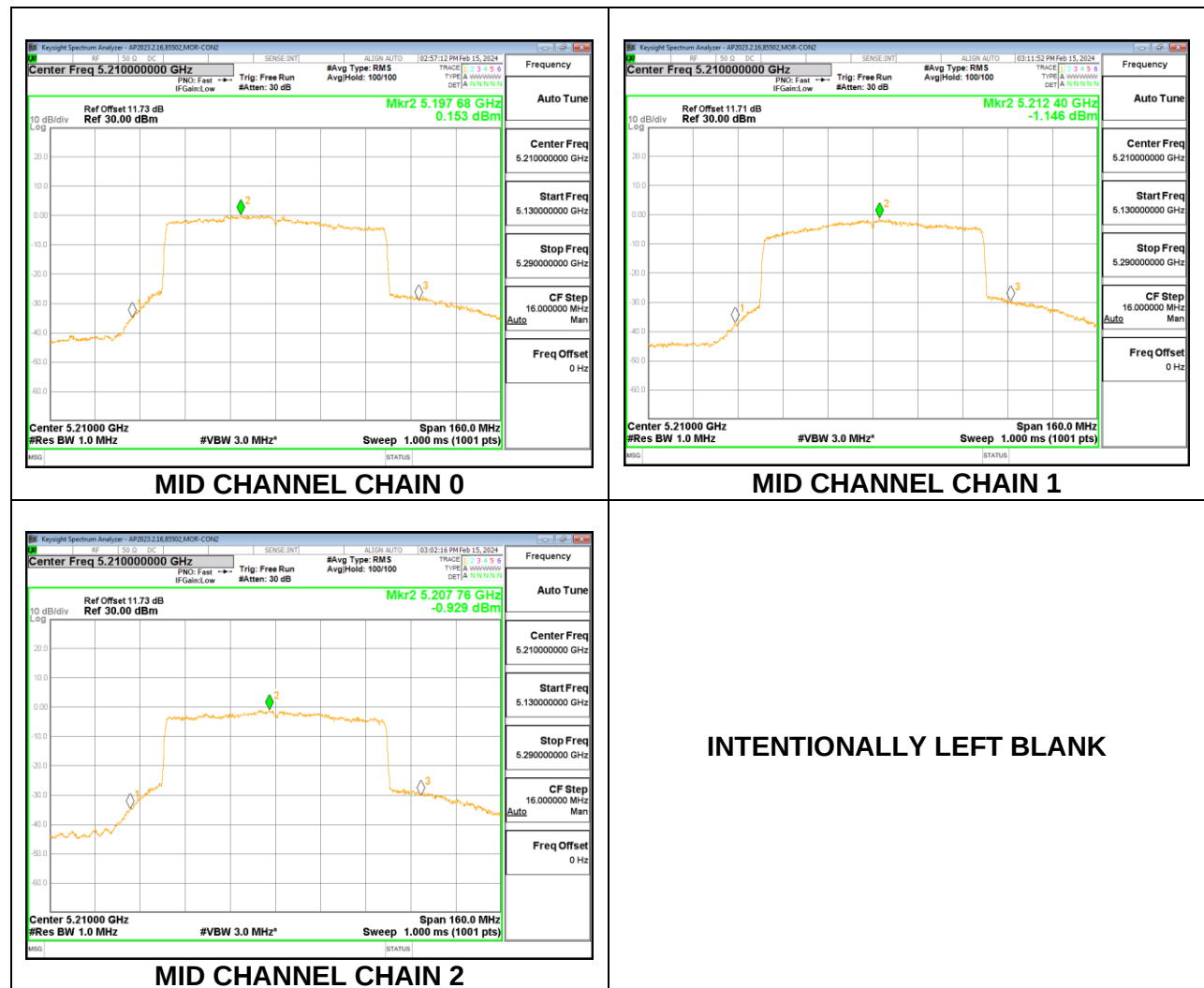
Duty Cycle CF (dB)	0.25	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	15.13	14.22	14.97	19.56	22.20	-2.64

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	0.15	-1.15	-0.93	4.42	5.20	-0.78



9.5.8. 802.11a MODE IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5260	20.8400	16.5230	0.80	4.90
Mid	5300	27.8800	16.7150	0.80	4.90
High	5320	27.6800	16.6740	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5260	24.00	23.18	29.18	23.18	11.00	11.00	11.00
Mid	5300	24.00	23.23	29.23	23.23	11.00	11.00	11.00
High	5320	24.00	23.22	29.22	23.22	11.00	11.00	11.00

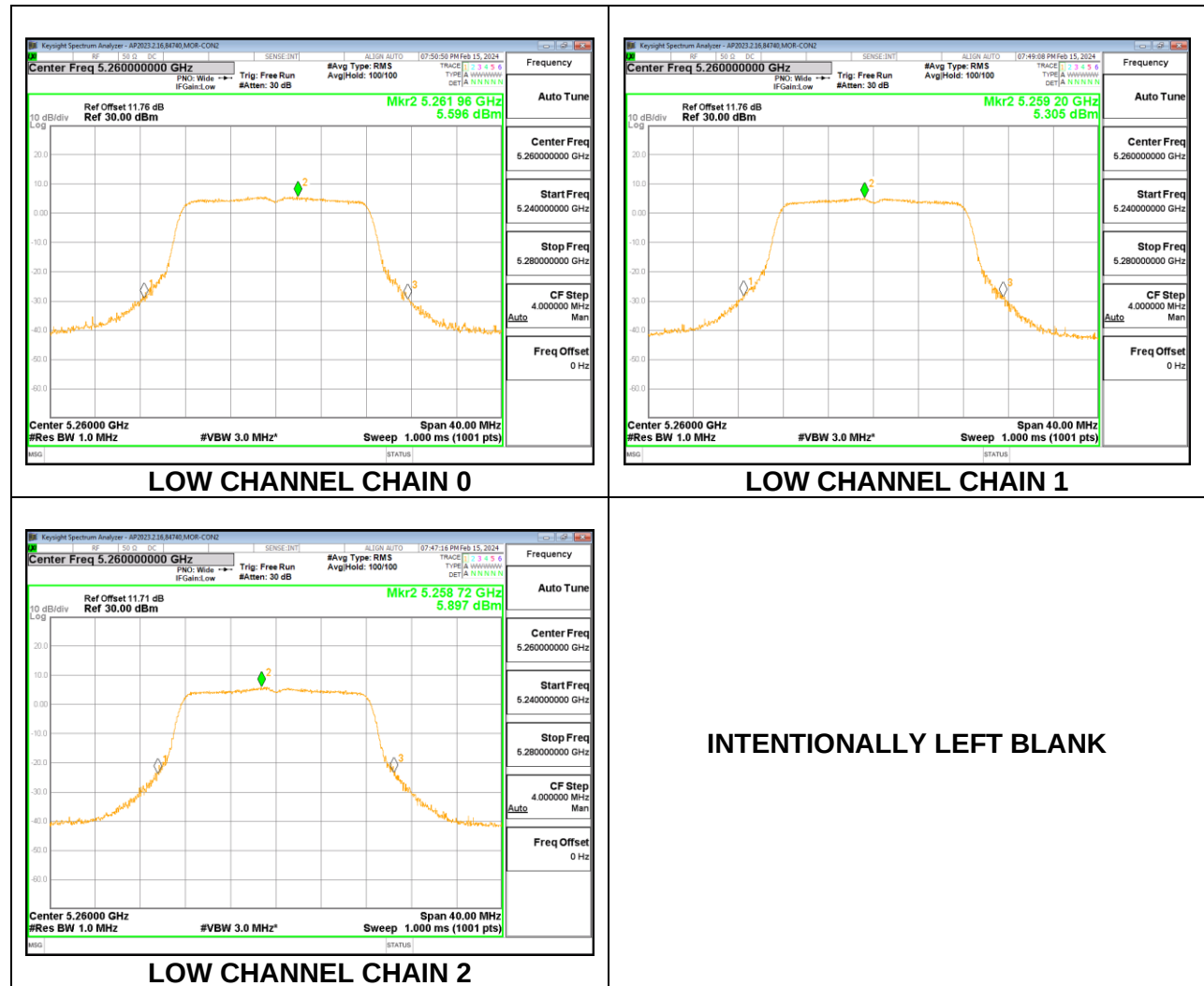
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	15.55	14.24	15.48	19.90	23.18	-3.28
Mid	5300	17.05	16.13	16.74	21.43	23.23	-1.80
High	5320	16.11	15.57	16.29	20.77	23.22	-2.45

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5260	5.596	5.305	5.897	10.47	11.00	-0.53
Mid	5300	5.050	5.084	5.517	10.08	11.00	-0.92
High	5320	5.108	5.388	5.546	10.21	11.00	-0.79



9.5.9. 802.11n HT20 MODE IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5260	24.0800	17.7103	0.80	4.90
Mid	5300	31.8000	17.9130	0.80	4.90
High	5320	31.0400	17.8250	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5260	24.00	23.48	29.48	23.48	11.00	11.00	11.00
Mid	5300	24.00	23.53	29.53	23.53	11.00	11.00	11.00
High	5320	24.00	23.51	29.51	23.51	11.00	11.00	11.00

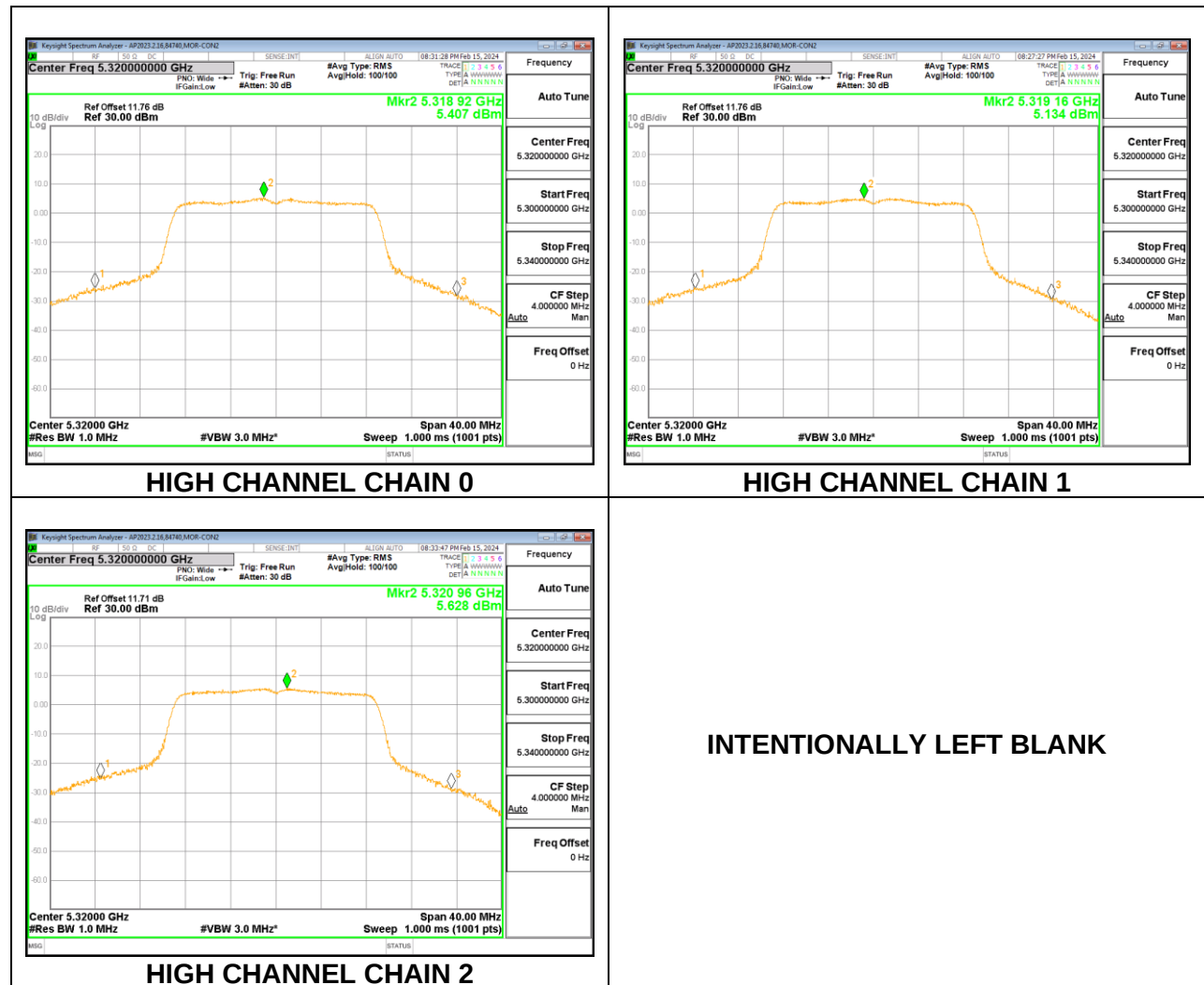
Duty Cycle CF (dB)	0.11	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.60	15.51	16.32	20.94	23.48	-2.54
Mid	5300	17.49	16.57	17.21	21.88	23.53	-1.65
High	5320	16.68	16.23	16.99	21.42	23.51	-2.09

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5260	5.460	5.003	5.492	10.21	11.00	-0.79
Mid	5300	5.495	5.090	5.451	10.23	11.00	-0.77
High	5320	5.407	5.134	5.628	10.28	11.00	-0.72



9.5.10. 802.11n HT40 MODE IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5270	44.4800	35.6020	0.80	4.90
High	5310	53.6800	35.9220	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5270	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5310	24.00	24.00	30.00	24.00	11.00	11.00	11.00

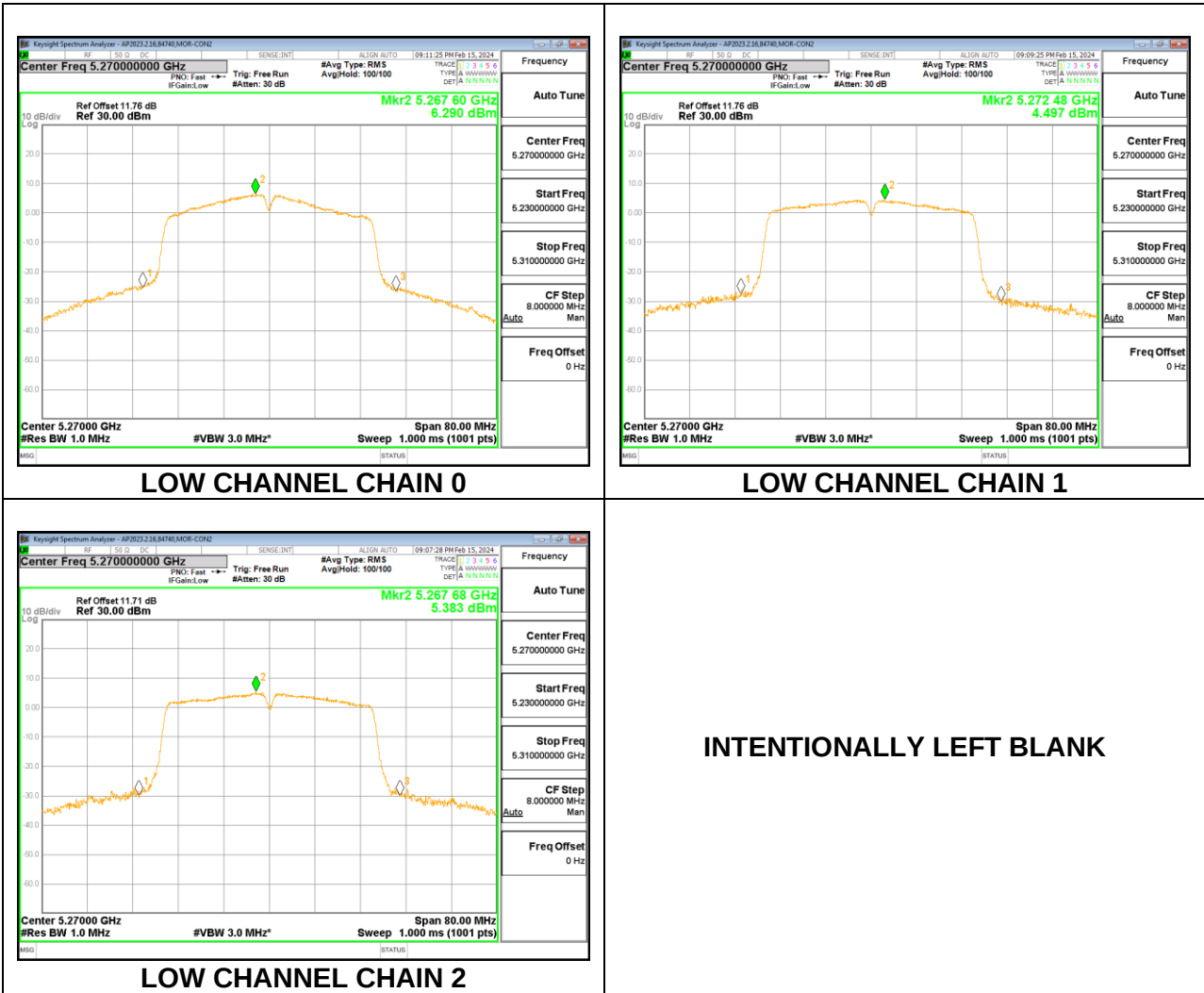
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	18.84	17.84	18.60	23.22	24.00	-0.78
High	5310	16.38	16.08	16.51	21.10	24.00	-2.90

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5270	6.29	4.50	5.38	10.34	11.00	-0.66
High	5310	4.66	4.31	4.79	9.48	11.00	-1.52



9.5.11. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5290	110.0800	75.6440	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5290	24.00	24.00	30.00	24.00	11.00	11.00	11.00

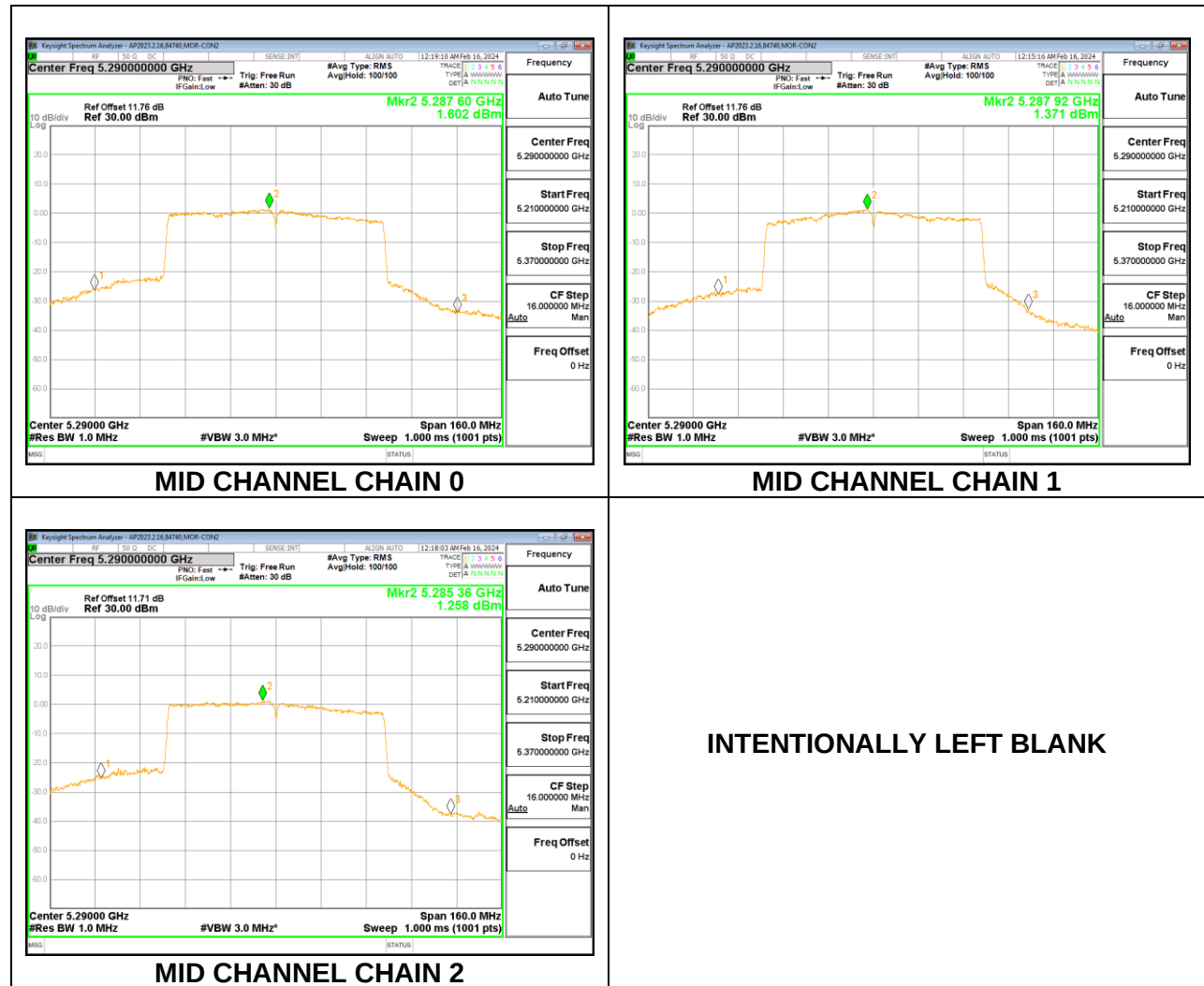
Duty Cycle CF (dB)	0.23	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	13.08	12.60	13.04	17.68	24.00	-6.32

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5290	1.602	1.371	1.258	6.41	11.00	-4.59



9.5.12. 802.11ax HE20 MODE 3TX IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5260	22.0800	18.8900	0.80	4.90
Mid	5300	30.0000	18.9970	0.80	4.90
High	5320	28.8800	19.0430	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5260	24.00	23.76	29.76	23.76	11.00	11.00	11.00
Mid	5300	24.00	23.79	29.79	23.79	11.00	11.00	11.00
High	5320	24.00	23.80	29.80	23.80	11.00	11.00	11.00

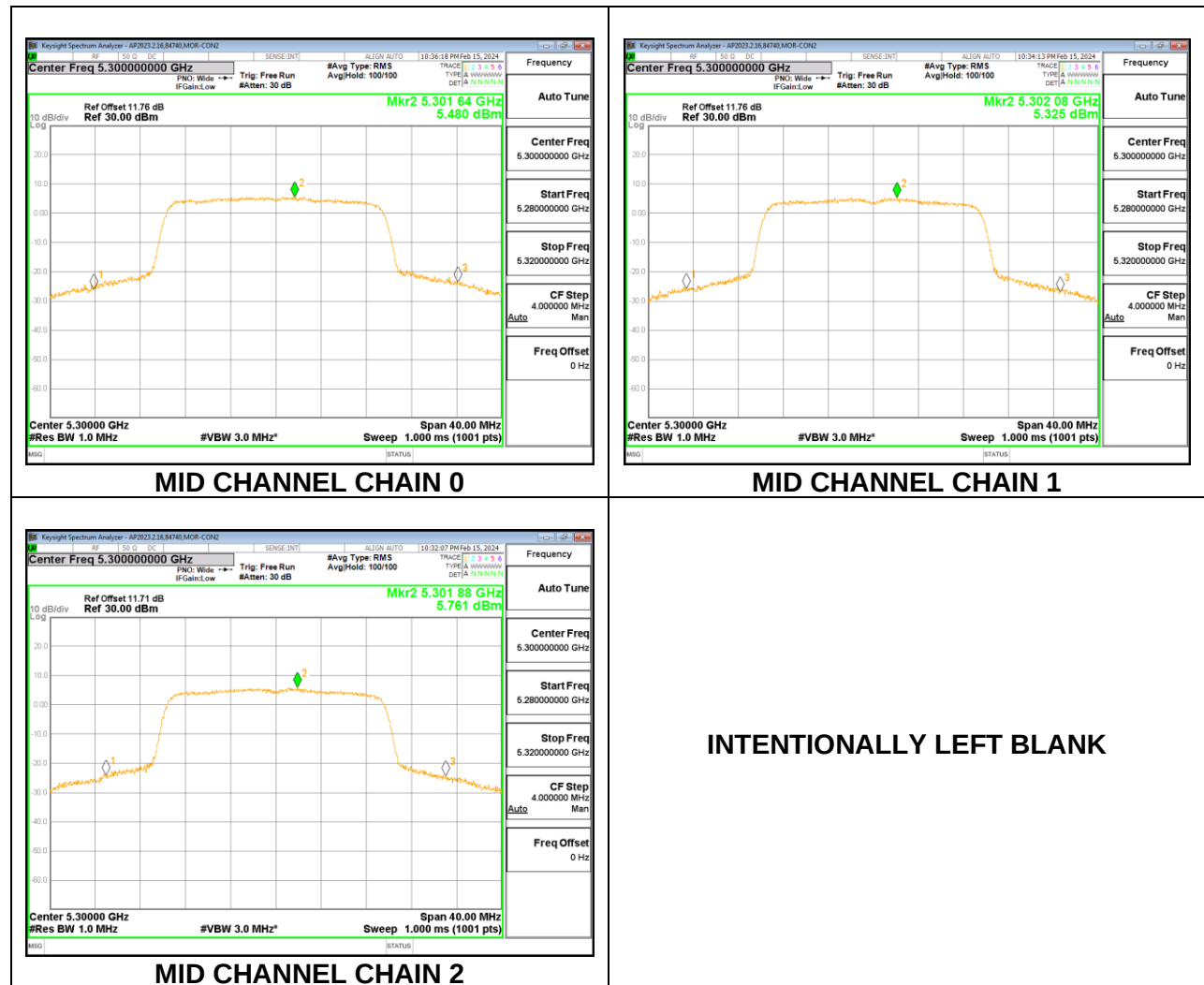
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	16.56	15.55	16.40	20.96	23.76	-2.80
Mid	5300	18.17	17.25	17.98	22.59	23.79	-1.20
High	5320	16.91	16.48	17.24	21.66	23.80	-2.14

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5260	5.560	4.956	5.213	10.02	11.00	-0.98
Mid	5300	5.480	5.325	5.761	10.30	11.00	-0.70
High	5320	5.517	5.048	5.420	10.10	11.00	-0.90



9.5.13. 802.11ax HE40 MODE 3TX IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5270	62.7200	37.5520	0.80	4.90
High	5310	58.9600	37.6810	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5270	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5310	24.00	24.00	30.00	24.00	11.00	11.00	11.00

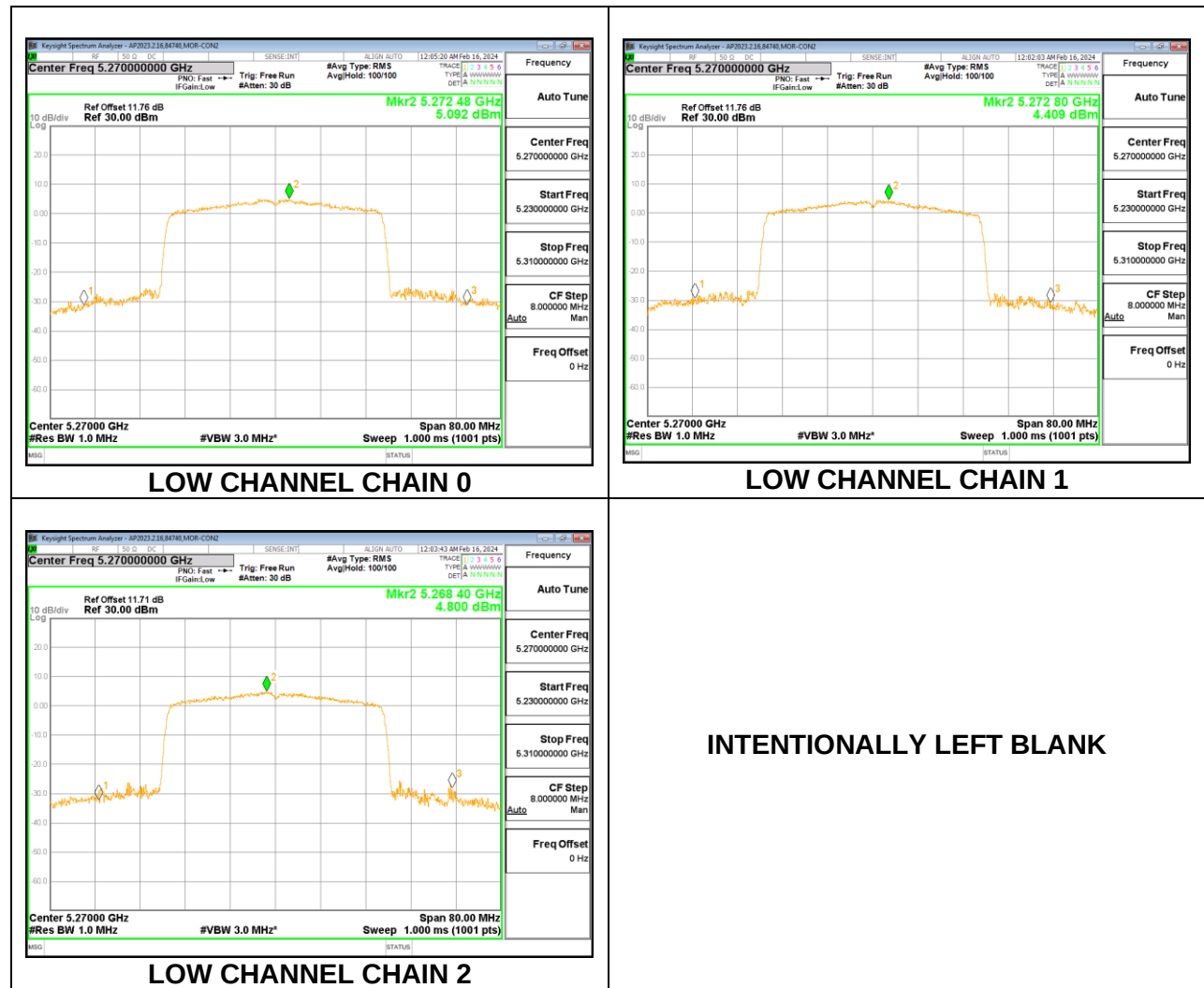
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	18.58	17.70	18.46	23.04	24.00	-0.96
High	5310	18.54	18.09	18.85	23.27	24.00	-0.73

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5270	5.09	4.41	4.80	9.67	11.00	-1.33
High	5310	4.72	4.29	4.74	9.48	11.00	-1.52



9.5.14. 802.11ax HE80 MODE 3TX IN THE 5.3 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 OFDMA MODE: SU

Test Engineer:	84740
Test Date:	2024/02/15

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5290	100.8000	77.3240	0.80	4.90

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5290	24.00	24.00	30.00	24.00	11.00	11.00	11.00

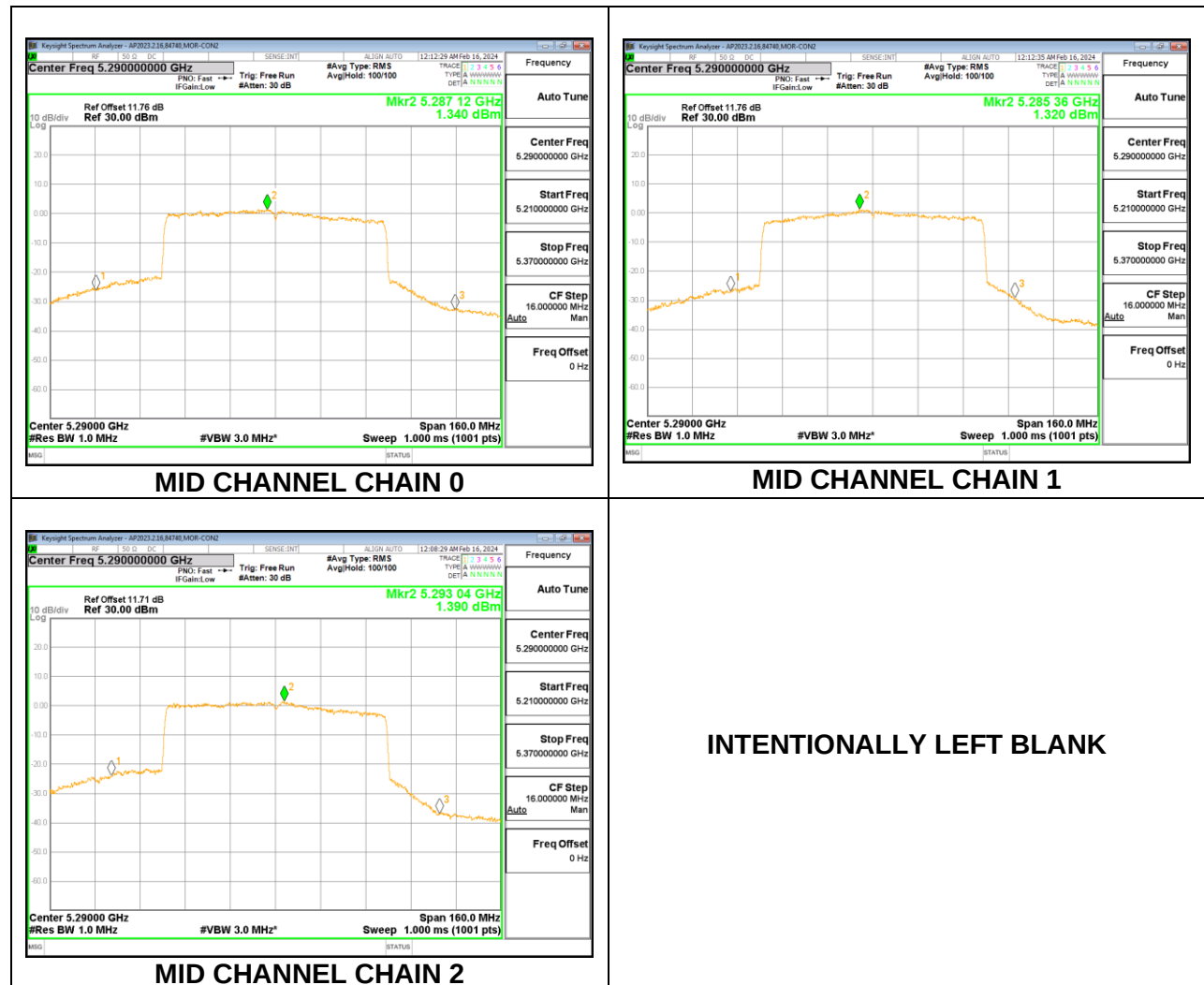
Duty Cycle CF (dB)	0.25	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	13.34	12.70	13.84	18.09	24.00	-5.91

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5290	1.340	1.320	1.390	6.37	11.00	-4.63



9.5.15. 802.11a MODE IN THE 5.6 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502
Test Date:	2024/02/16

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	31.8500	16.8520	2.20	6.10
Mid	5580	22.2400	16.5850	2.20	6.10
High	5700	26.7600	16.7050	2.20	6.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.27	29.27	23.27	10.90	11.00	10.90
Mid	5580	24.00	23.20	29.20	23.20	10.90	11.00	10.90
High	5700	24.00	23.23	29.23	23.23	10.90	11.00	10.90

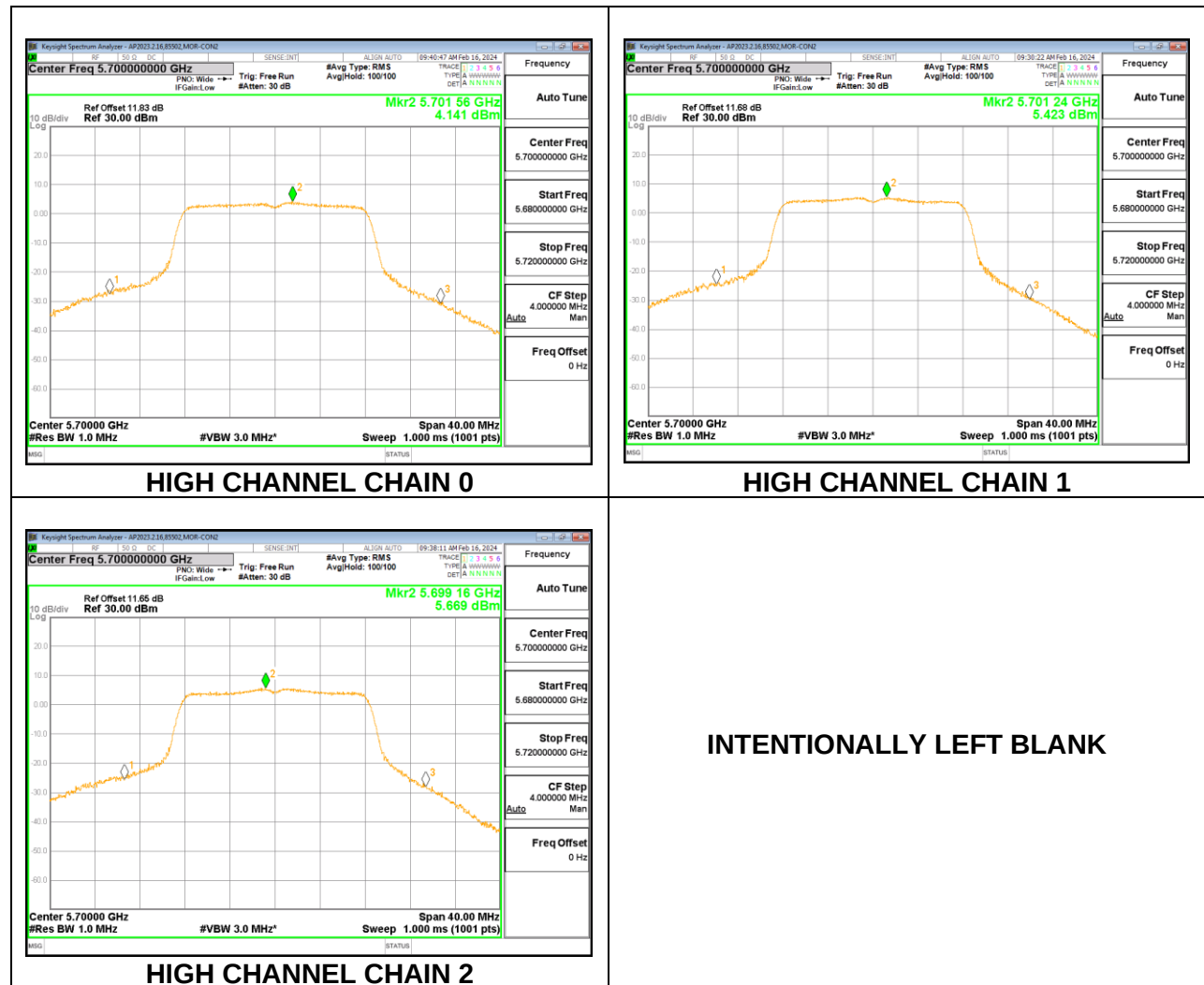
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.27	16.48	16.31	21.13	23.27	-2.14
Mid	5580	16.44	16.57	15.96	21.10	23.20	-2.09
High	5700	15.44	15.42	15.55	20.24	23.23	-2.99

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.683	4.772	5.049	9.40	10.90	-1.50
Mid	5580	4.738	5.006	3.872	9.43	10.90	-1.47
High	5700	4.141	5.423	5.669	9.99	10.90	-0.91



9.5.16. 802.11n HT20 MODE IN THE 5.6 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502
Test Date:	2024/02/16

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	30.6400	17.8860	2.20	6.10
Mid	5580	22.3600	17.8010	2.20	6.10
High	5700	29.4800	17.9070	2.20	6.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.53	29.53	23.53	10.90	11.00	10.90
Mid	5580	24.00	23.50	29.50	23.50	10.90	11.00	10.90
High	5700	24.00	23.53	29.53	23.53	10.90	11.00	10.90

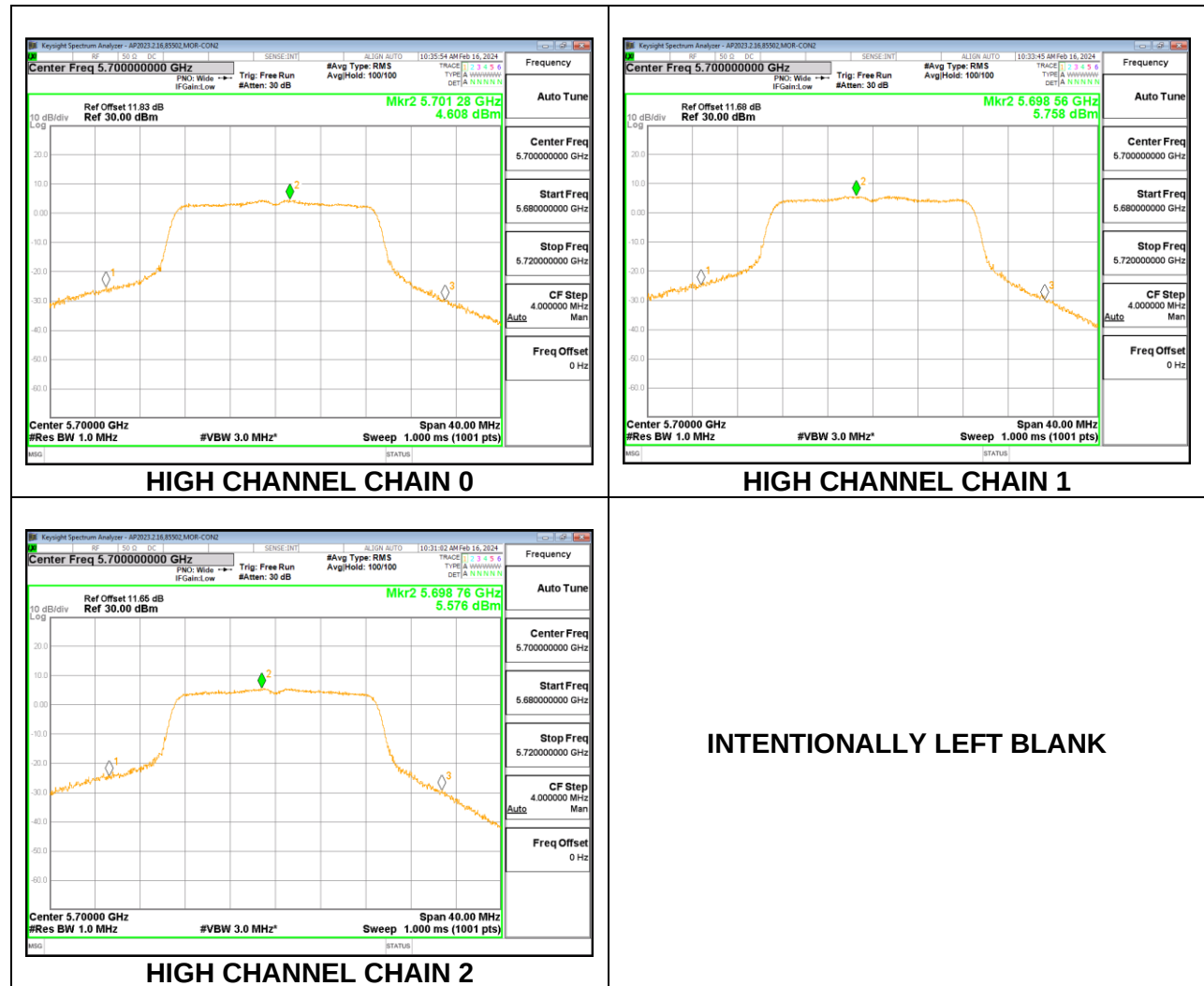
Duty Cycle CF (dB)	0.11	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	16.36	16.50	16.27	21.15	23.53	-2.38
Mid	5580	15.84	16.07	16.61	20.96	23.50	-2.55
High	5700	15.77	15.74	15.88	20.57	23.53	-2.96

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	4.353	4.307	4.284	9.20	10.90	-1.70
Mid	5580	4.953	5.476	5.243	10.11	10.90	-0.79
High	5700	4.608	5.758	5.576	10.22	10.90	-0.68



9.5.17. 802.11n HT40 MODE IN THE 5.6 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502, 84740
Test Date:	2024/02/16

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5510	55.7000	36.2560	2.20	6.10
Mid	5550	83.0400	36.7000	2.20	6.10
High	5670	63.7600	36.3560	2.20	6.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5510	24.00	24.00	30.00	24.00	10.90	11.00	10.90
Mid	5550	24.00	24.00	30.00	24.00	10.90	11.00	10.90
High	5670	24.00	24.00	30.00	24.00	10.90	11.00	10.90

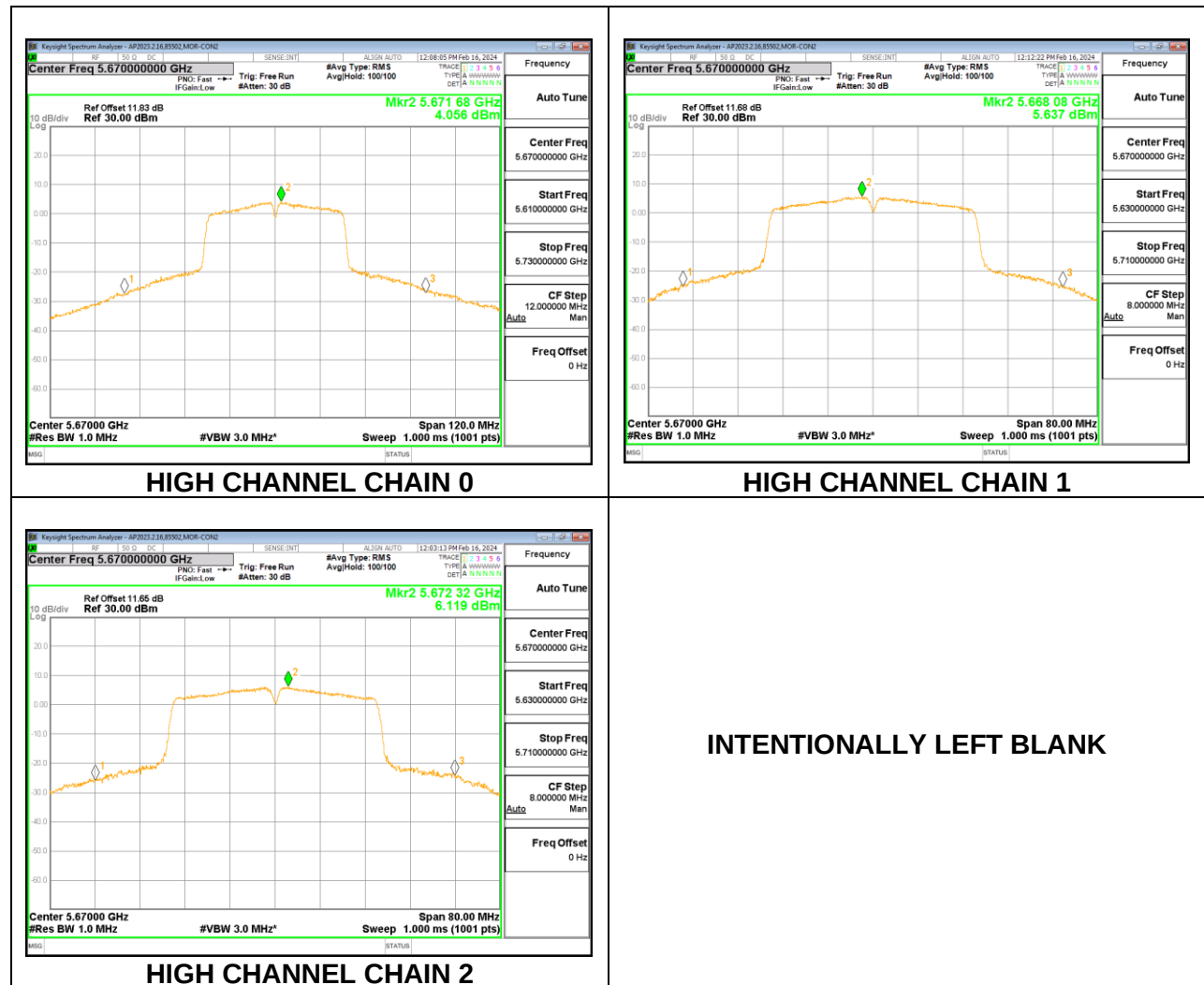
Duty Cycle CF (dB)	0.12	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	16.55	16.60	16.03	21.17	24.00	-2.83
Mid	5550	18.18	18.07	18.62	23.07	24.00	-0.93
High	5670	16.26	16.23	16.19	21.00	24.00	-3.00

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	3.43	5.07	4.39	9.24	10.90	-1.66
Mid	5550	4.50	4.67	4.50	9.45	10.90	-1.45
High	5670	4.06	5.64	6.12	10.25	10.90	-0.65



9.5.18. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND (FCC+IC)

3TX CHAIN 0 + CHAIN 1 + CHAIN 2 CDD MODE

Test Engineer:	85502, 84740
Test Date:	2024/02/16

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	148.0000	76.4240	2.20	6.10

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	10.90	11.00	10.90

Duty Cycle CF (dB)	0.23	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)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	15.35	15.23	14.55	19.83	24.00	-4.17

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Chain 2 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	0.737	1.298	1.486	6.19	10.90	-4.71