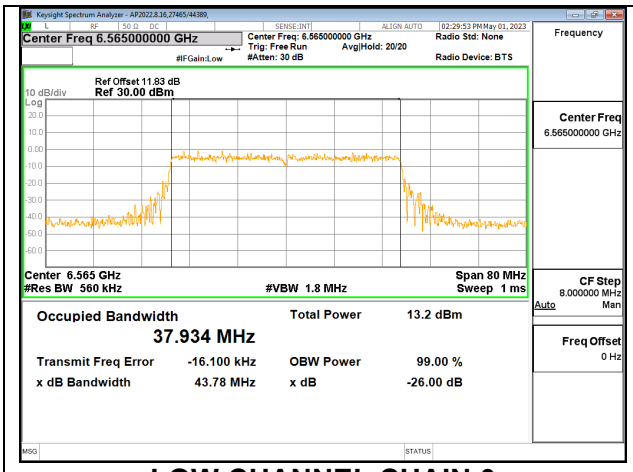
9.4.13. 802.11ax HE40 MODE 2TX IN THE UNII-7 BAND

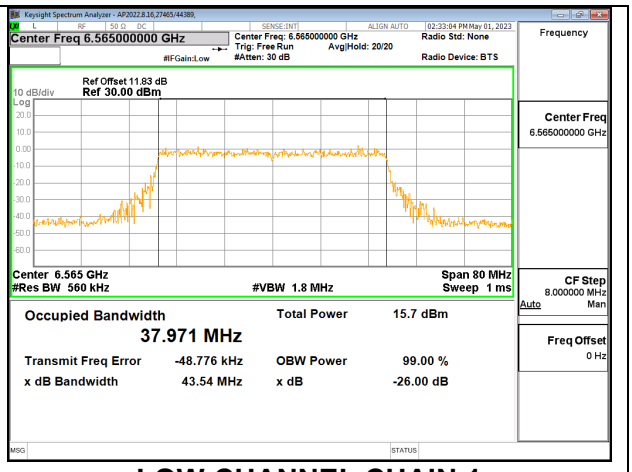
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 484T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6565	37.934	37.971
Mid	6685	37.914	38.008
High	6845	37.935	38.012

LOW

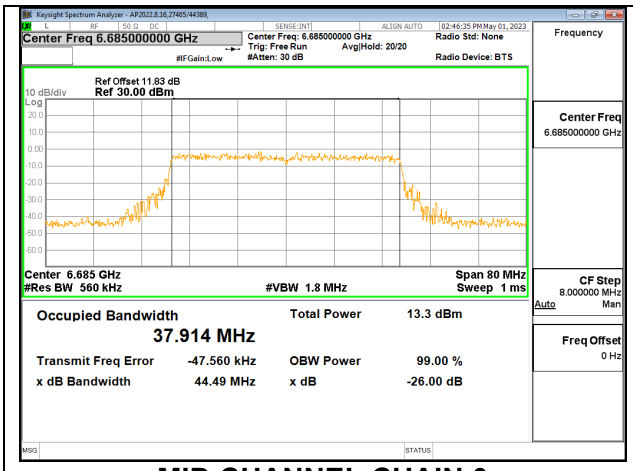


LOW CHANNEL CHAIN 0

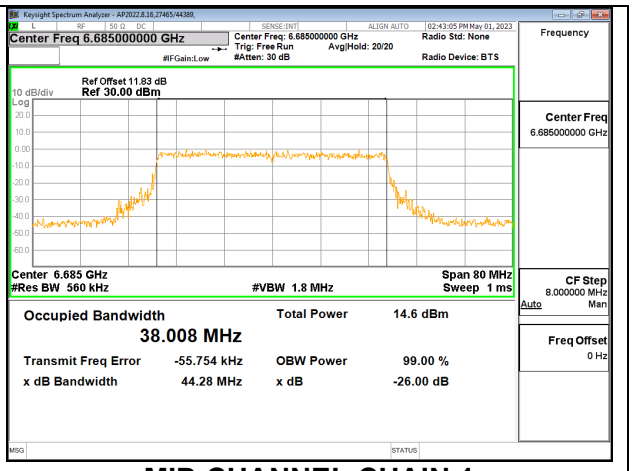


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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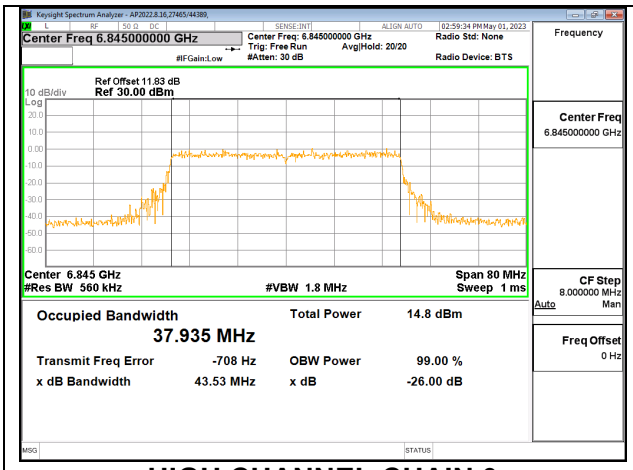
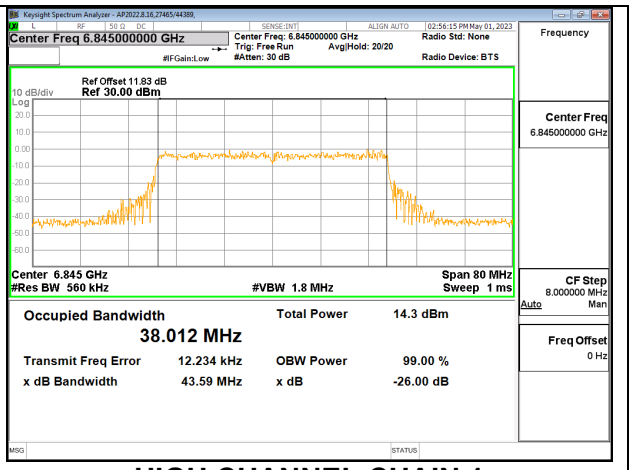
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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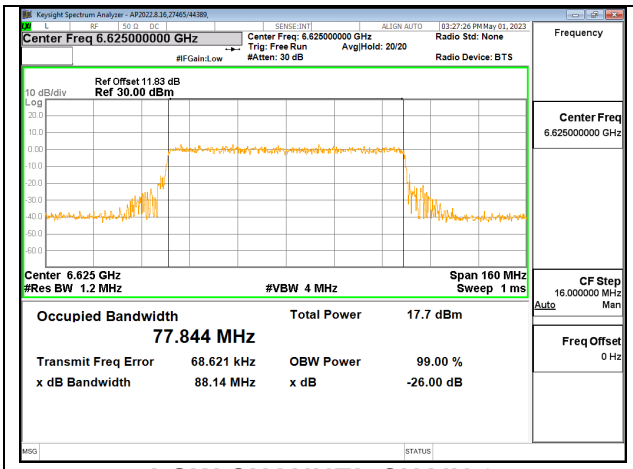
9.4.14. 802.11ax HE80 MODE 2TX IN THE UNII-7 BAND

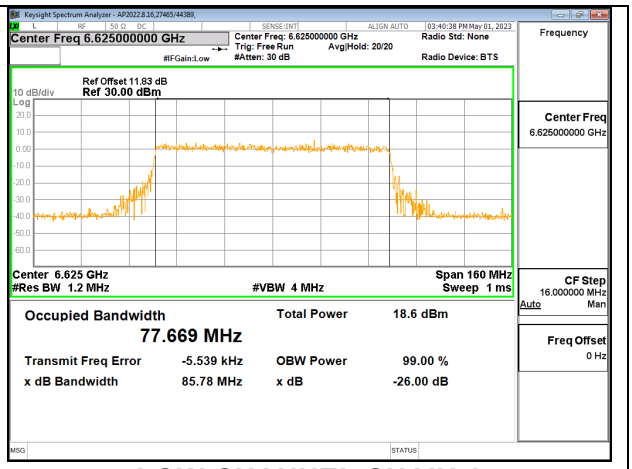
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 996T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6625	77.844	77.669
Mid	6705	77.501	77.819
High	6785	77.725	77.725

LOW

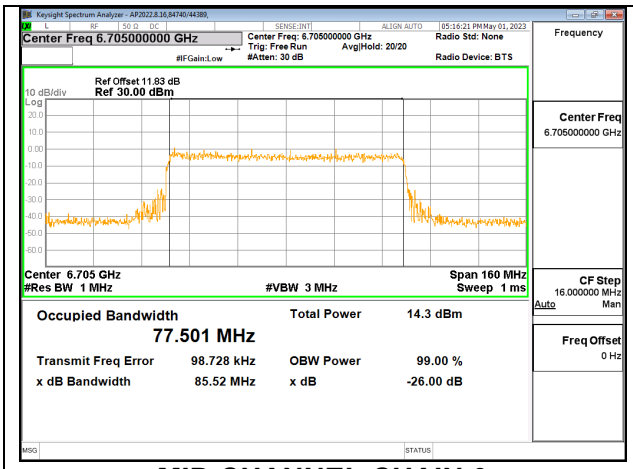


LOW CHANNEL CHAIN 0

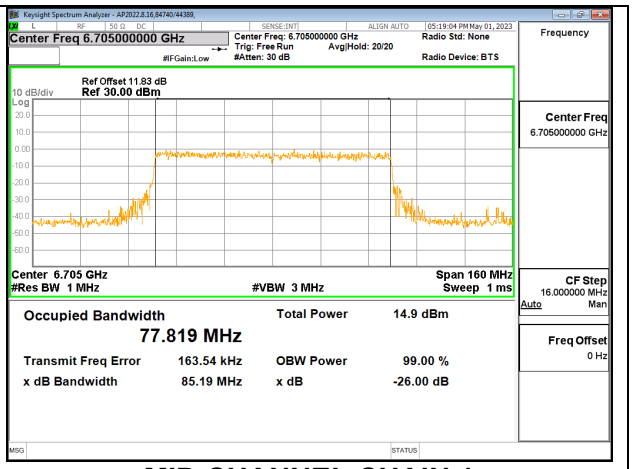


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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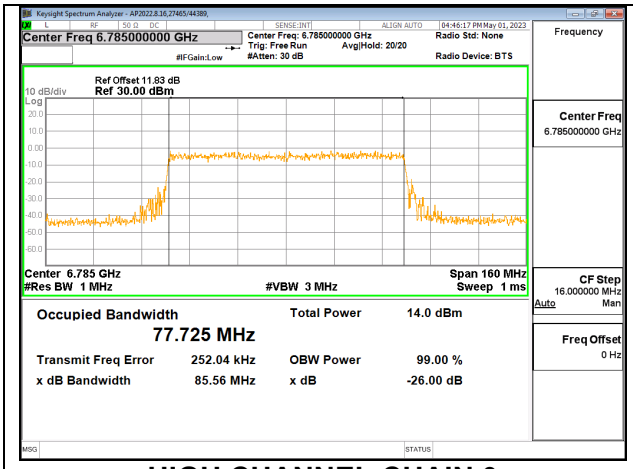
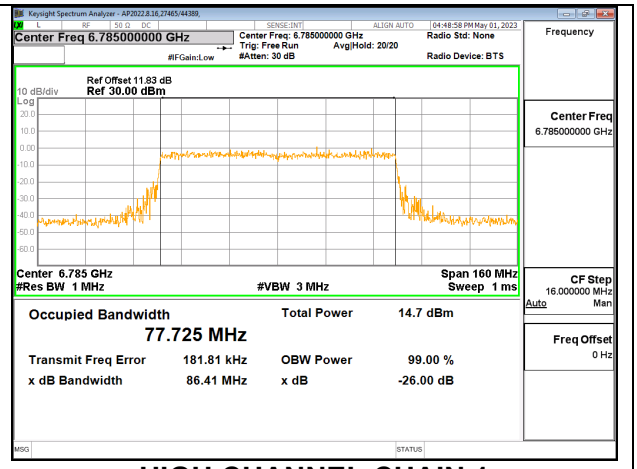
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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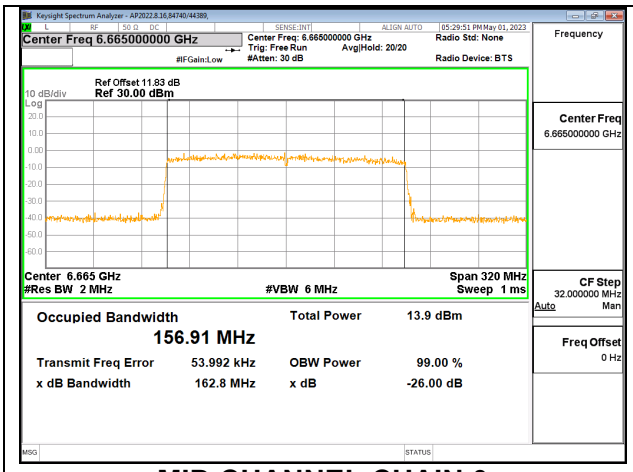
9.4.15. 802.11ax HE160 MODE 2TX IN THE UNII-7 BAND

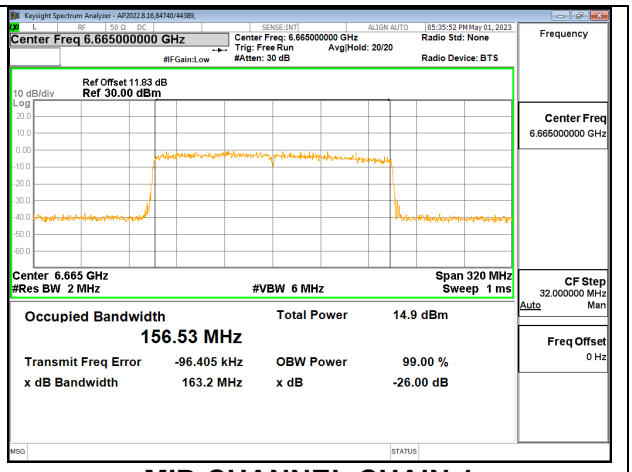
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 2x996T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Mid	6665	156.91	156.53

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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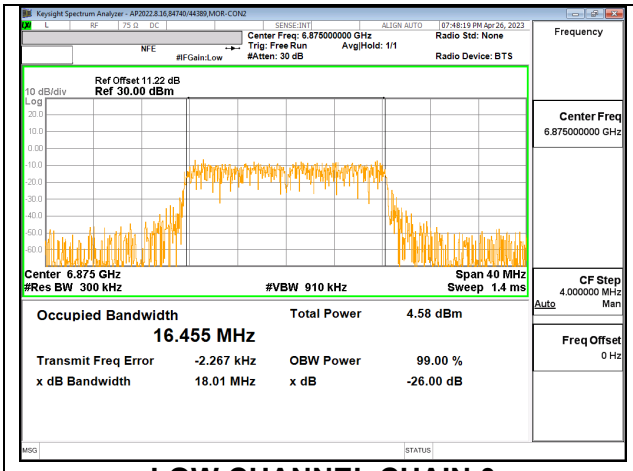
9.4.16. 802.11a MODE 2TX IN THE UNII-8 BAND

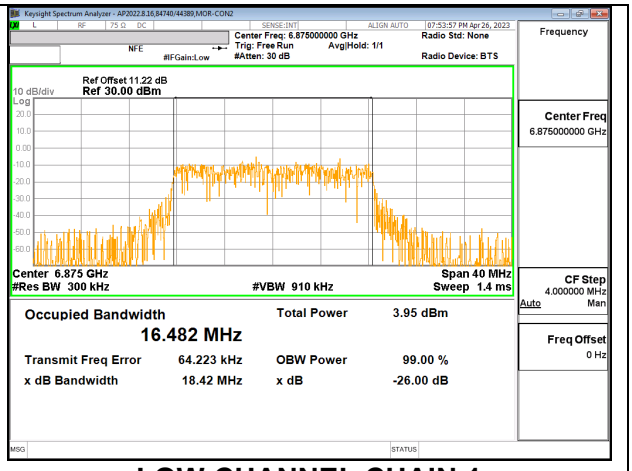
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6875	16.455	16.482
Mid	6995	16.425	16.493
High	7115	16.399	16.453

LOW

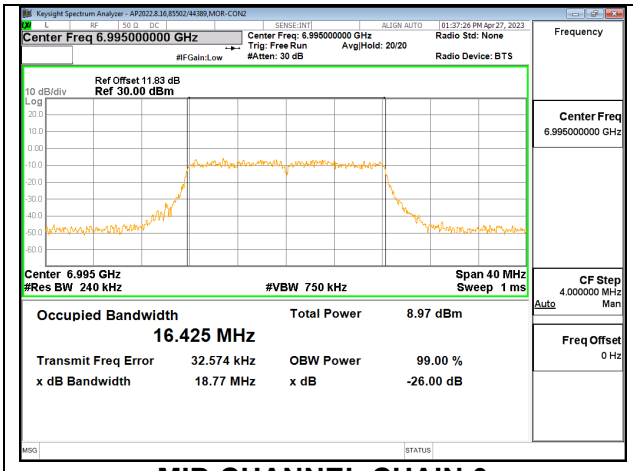


LOW CHANNEL CHAIN 0

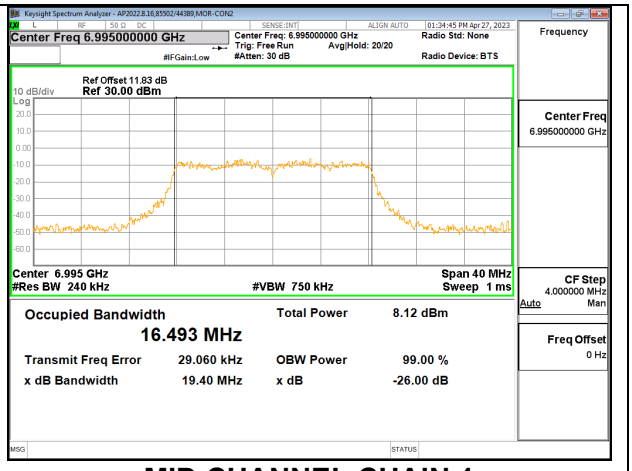


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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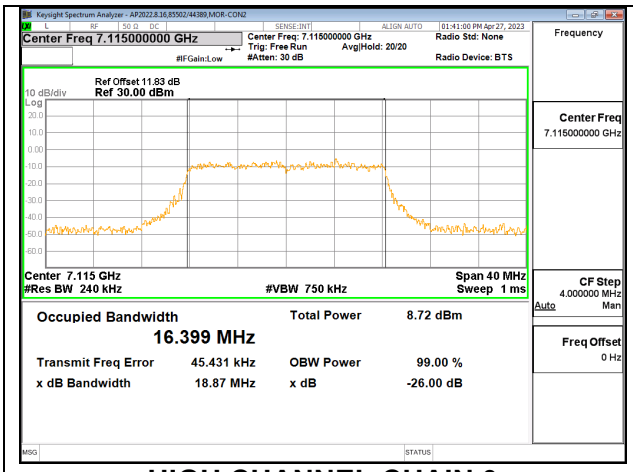
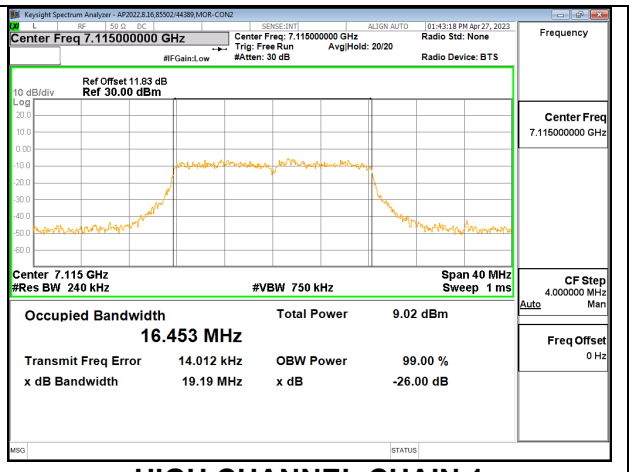
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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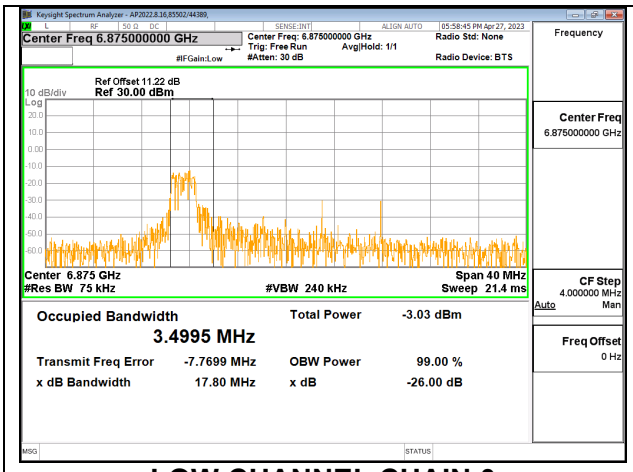
9.4.17. 802.11ax HE20 MODE 2TX IN THE UNII-8 BAND

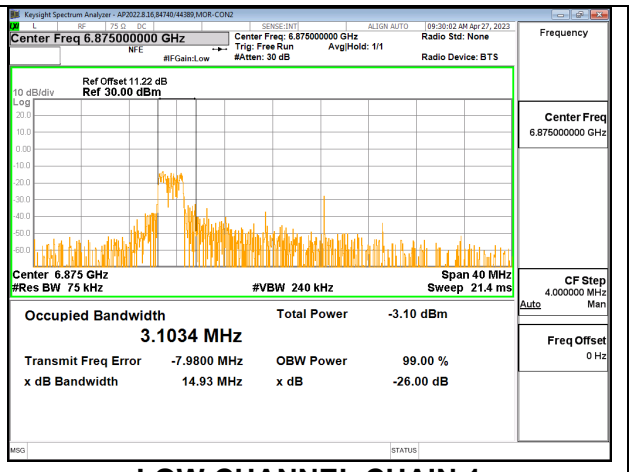
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 26T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6875	3.4995	3.1034
Mid	6995	2.7949	3.0272
High	7115	3.2526	3.3374

LOW

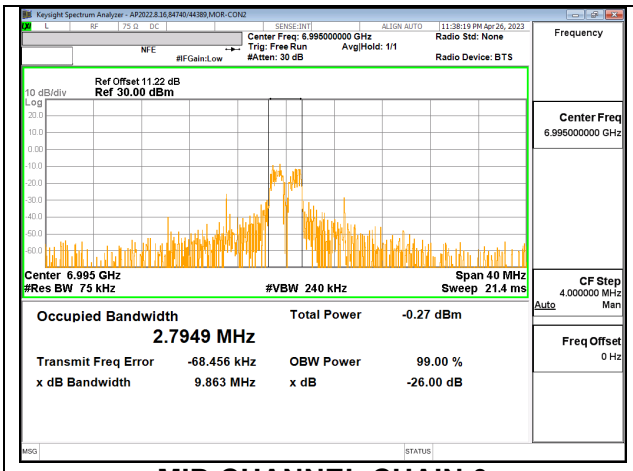


LOW CHANNEL CHAIN 0

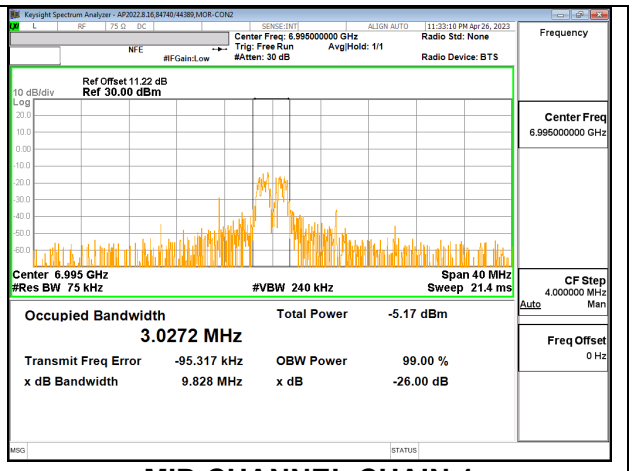


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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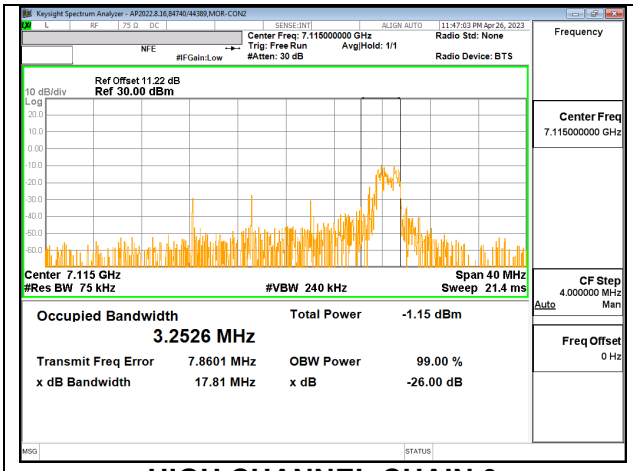
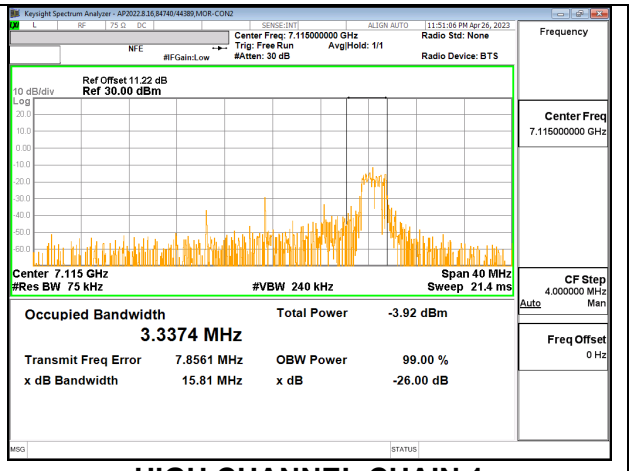
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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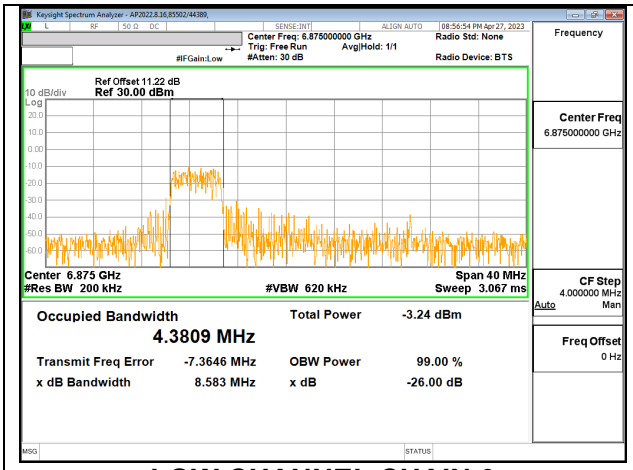
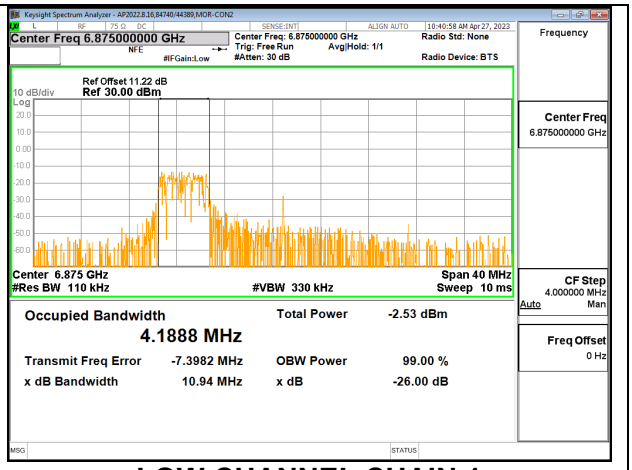
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 52T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6875	4.3809	4.1888
Mid	6995	4.2427	4.2095
High	7115	4.1990	4.2847

LOW

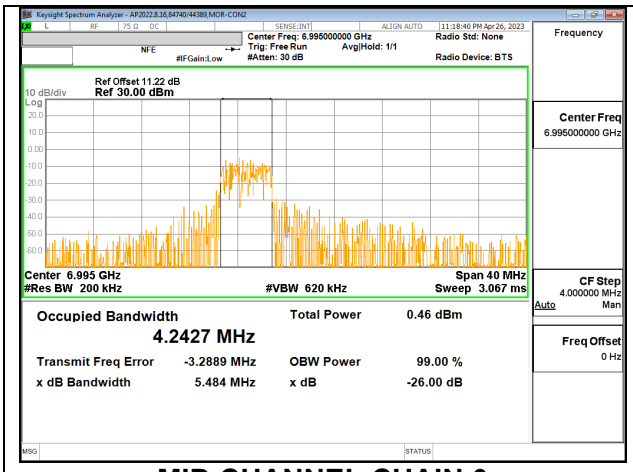


LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

MID



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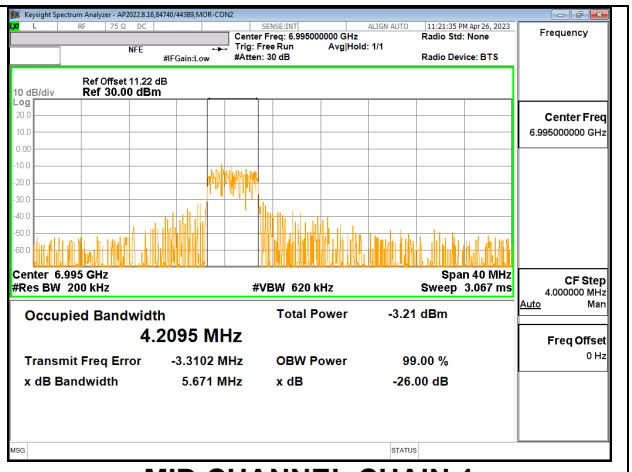

MID CHANNEL CHAIN 1

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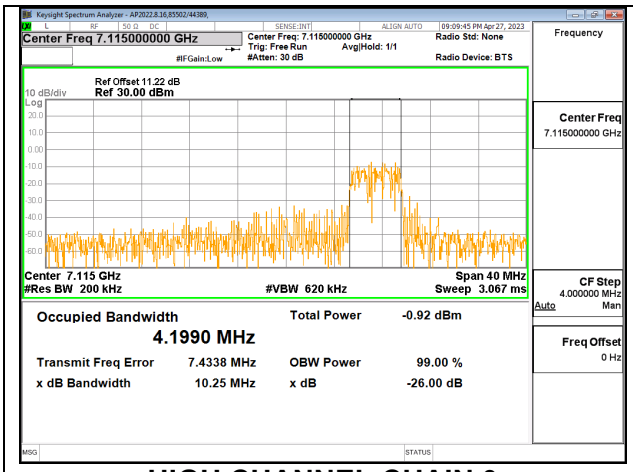
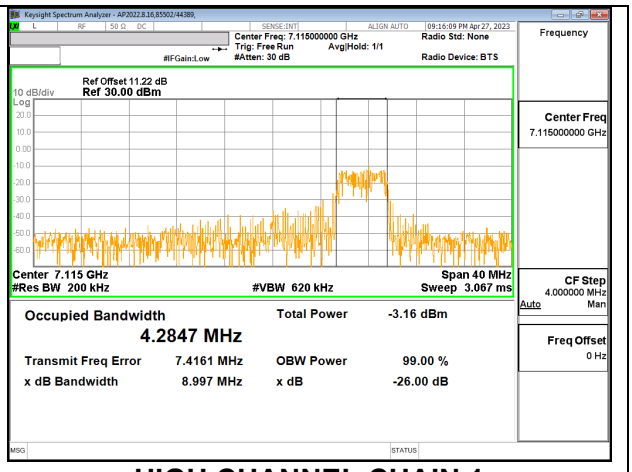
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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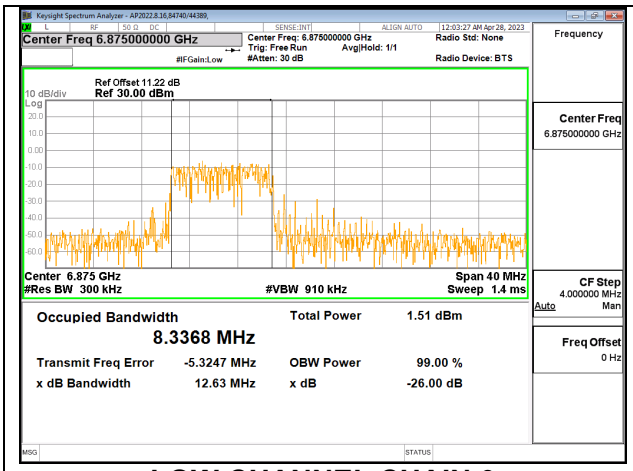
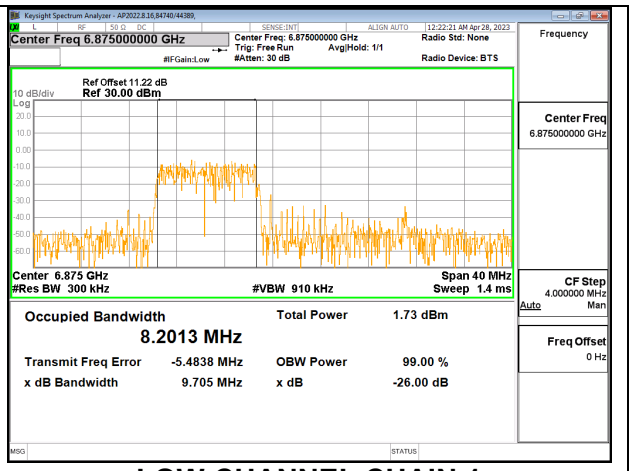
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 106T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6875	8.3368	8.2013
Mid	6995	8.3486	8.2758
High	7115	8.3653	8.2826

LOW

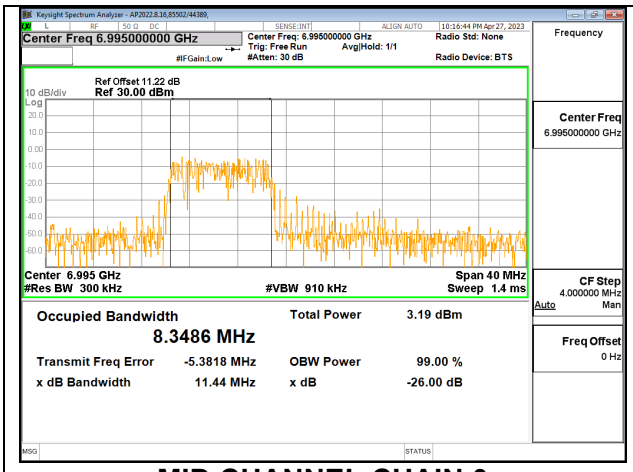


LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

MID



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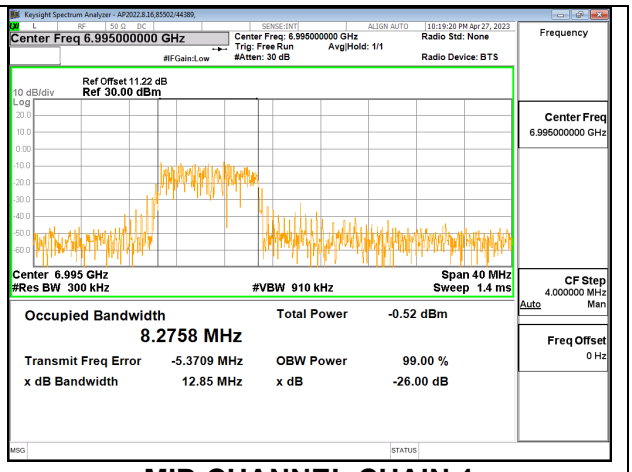

MID CHANNEL CHAIN 1

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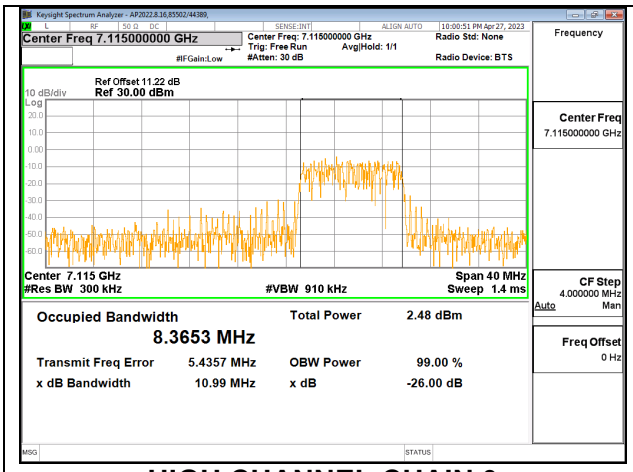
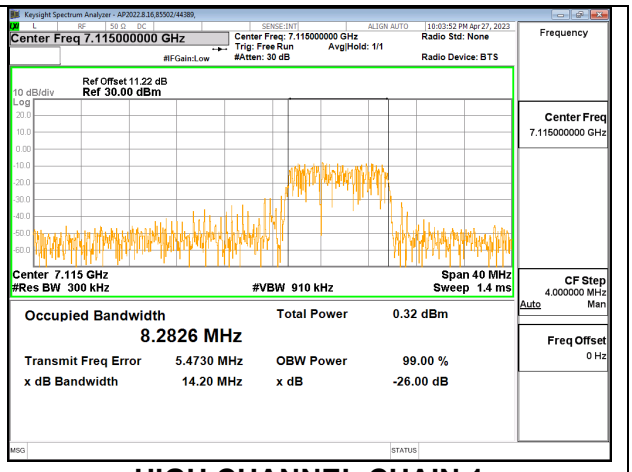
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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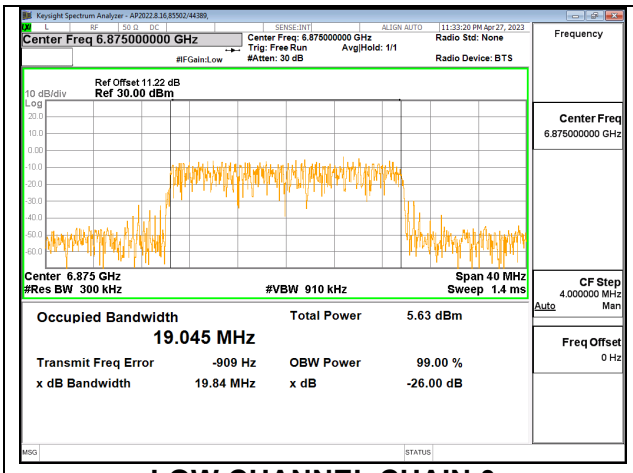
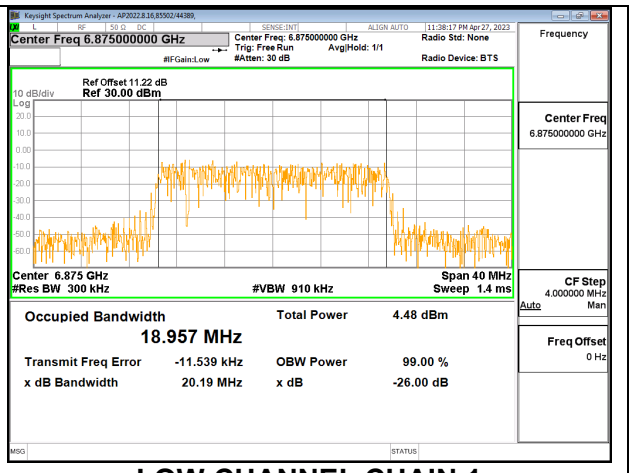
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 242T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6875	19.05	18.96
Mid	6995	18.96	18.91
High	7115	18.95	18.88

LOW

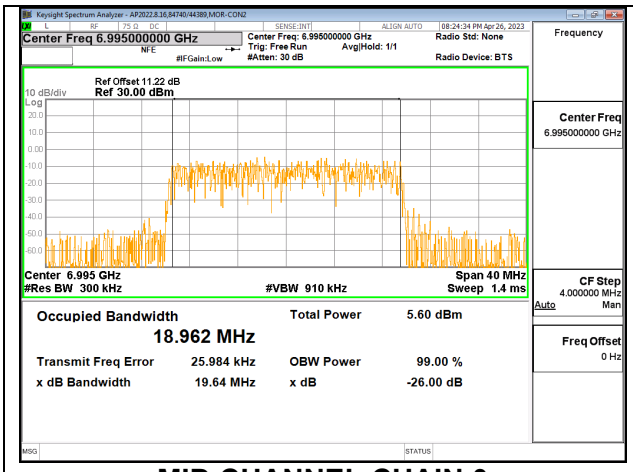


LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

MID



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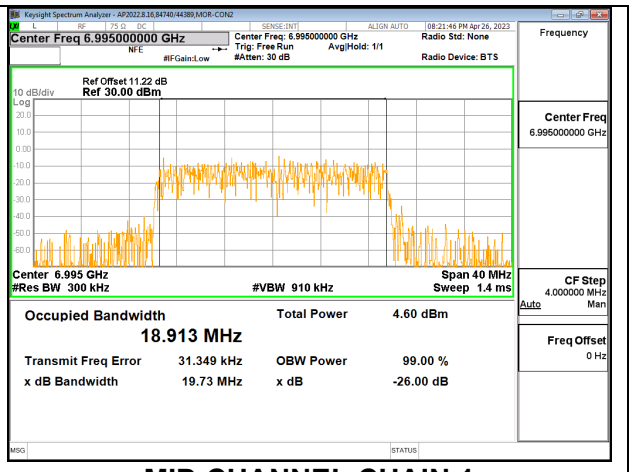

MID CHANNEL CHAIN 1

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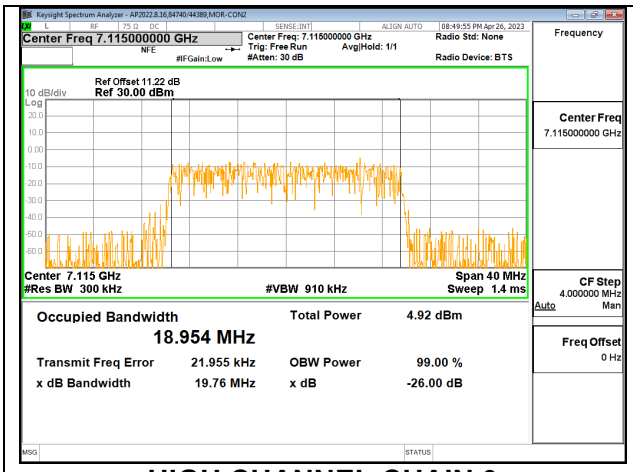
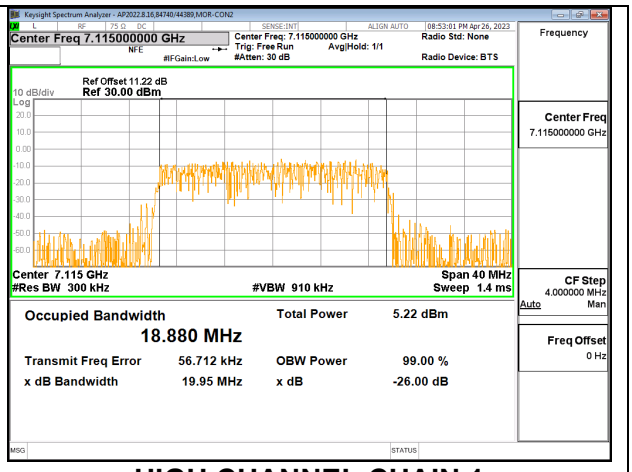
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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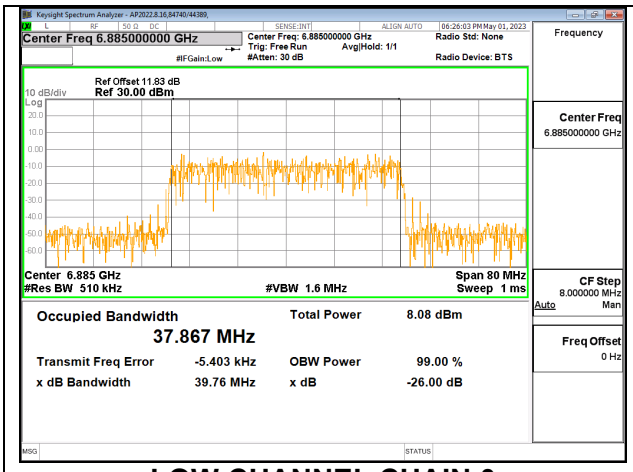
9.4.18. 802.11ax HE40 MODE 2TX IN THE UNII-8 BAND

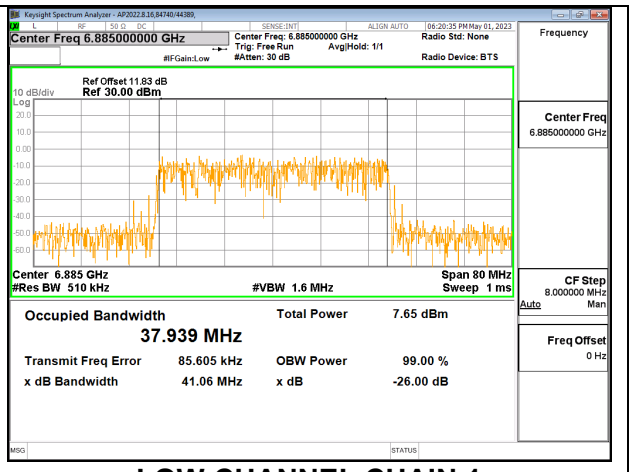
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 484T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6885	37.867	37.939
Mid	7005	38.007	37.934
High	7085	37.901	37.930

LOW

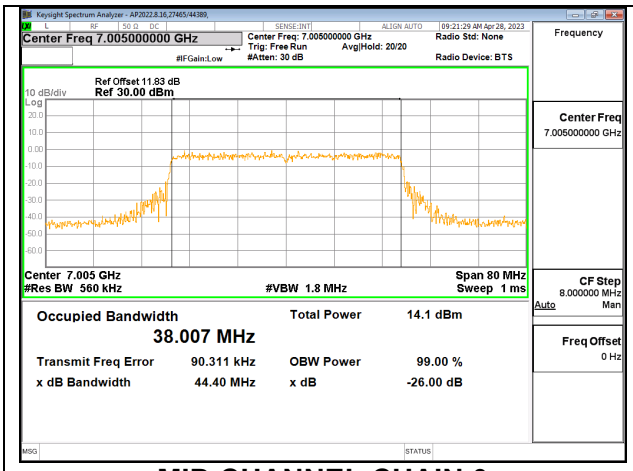


LOW CHANNEL CHAIN 0

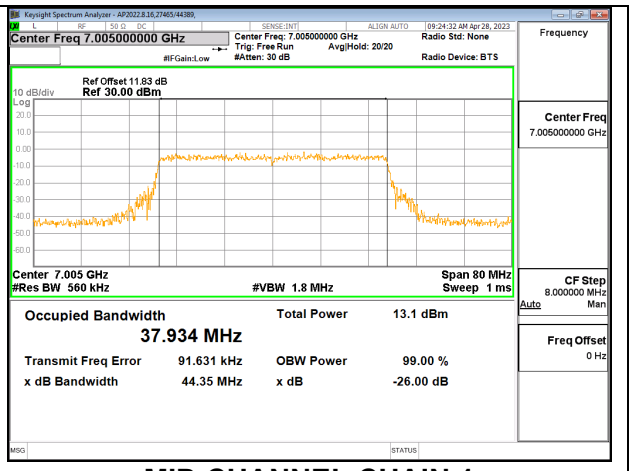


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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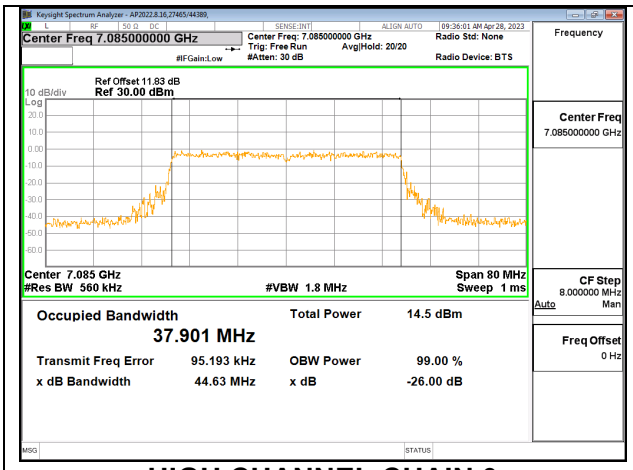
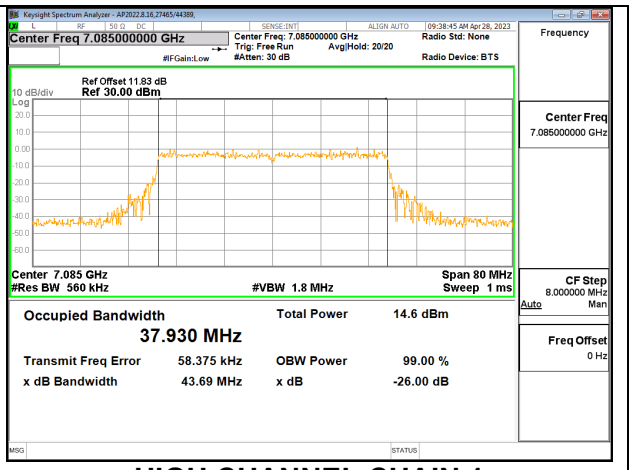
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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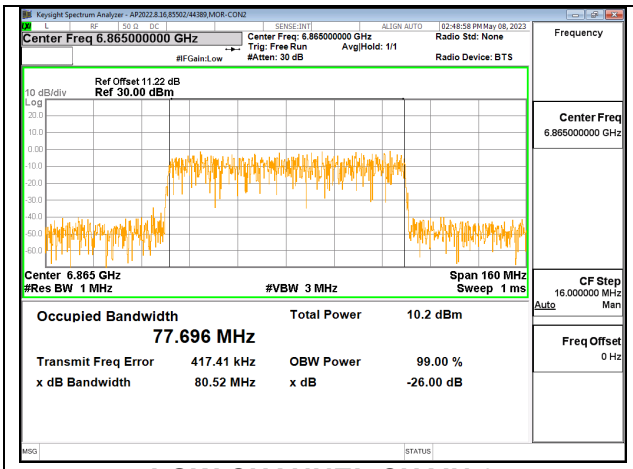
9.4.19. 802.11ax HE80 MODE 2TX IN THE UNII-8 BAND

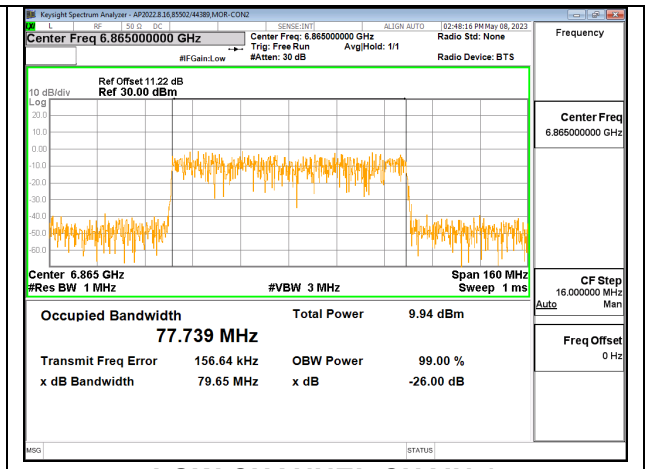
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 996T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6865	77.696	77.739
Mid	6945	77.861	77.699
High	7025	77.672	77.659

LOW

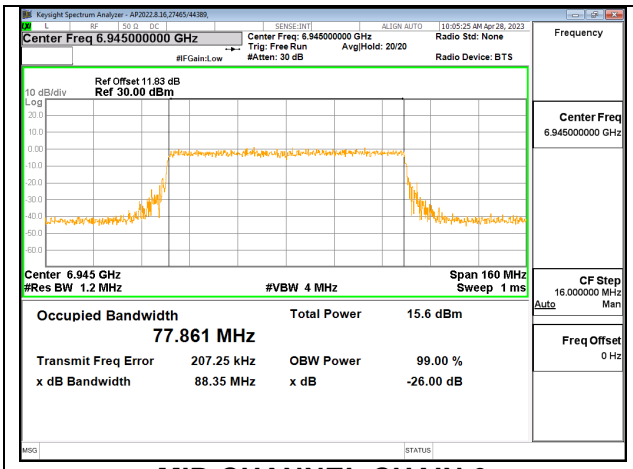


LOW CHANNEL CHAIN 0

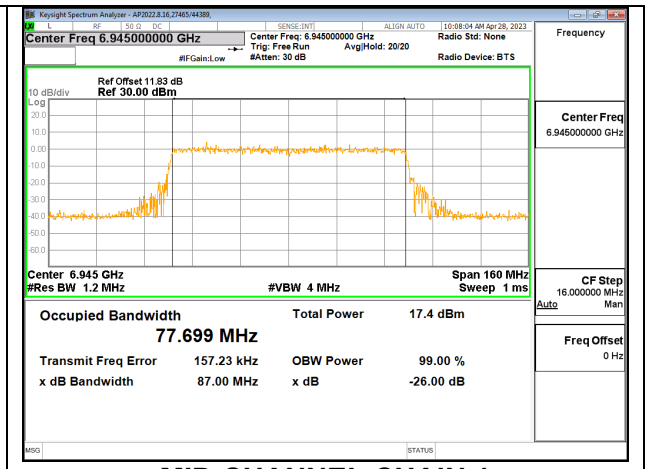


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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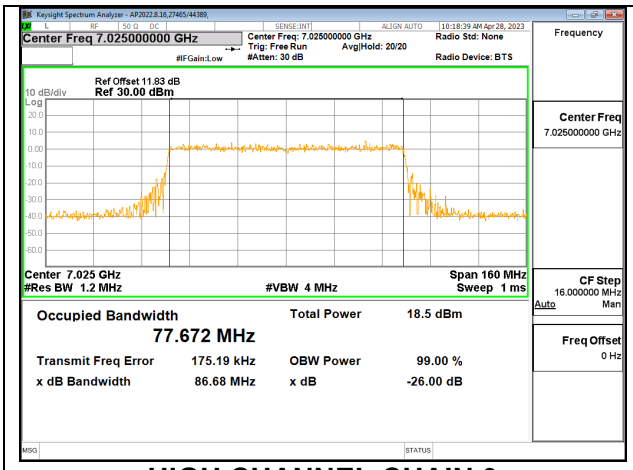
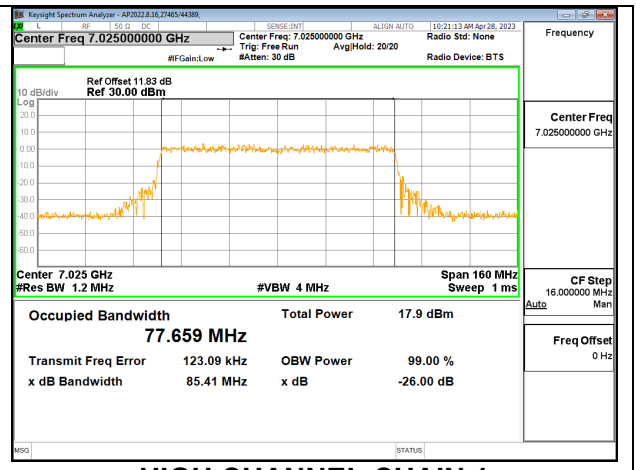
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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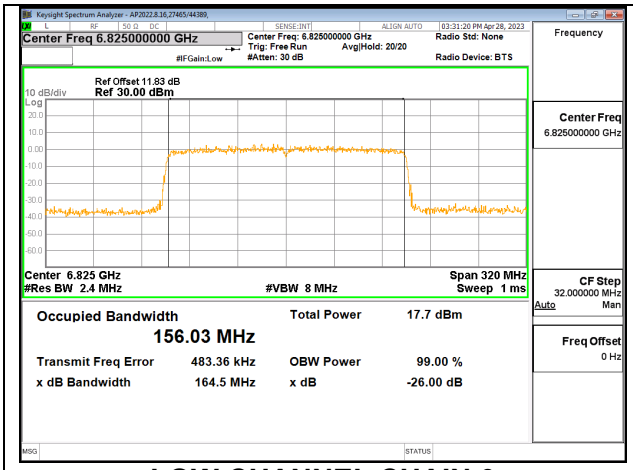
9.4.20. 802.11ax HE160 MODE 2TX IN THE UNII-8 BAND

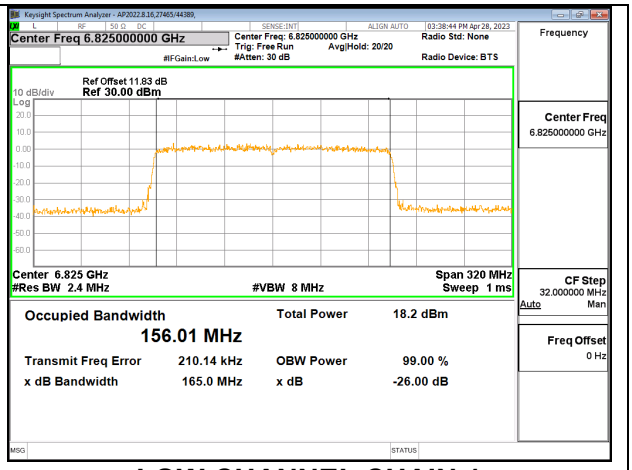
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 2x996T

Channel	Frequency (MHz)	99% Bandwidth Chain 0 (MHz)	99% Bandwidth Chain 1 (MHz)
Low	6825	156.03	156.01
High	6985	156.10	156.02

LOW

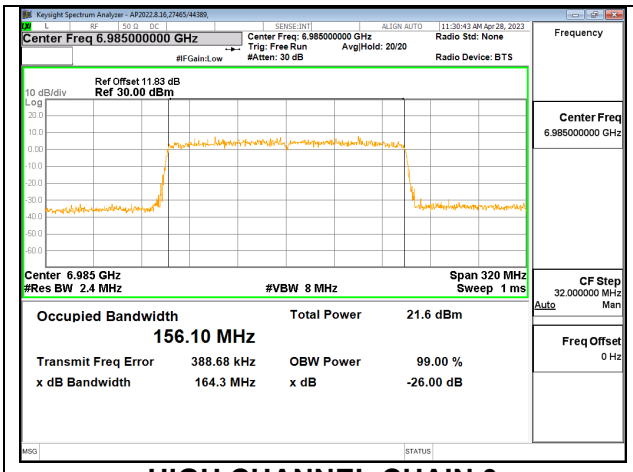


LOW CHANNEL CHAIN 0

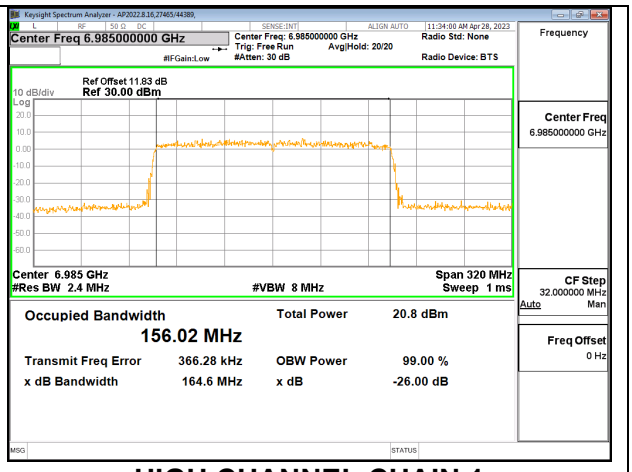


LOW CHANNEL CHAIN 1

HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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9.5. SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407 (b)(7)
RSS-248 4.6.2 (b)

(6) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Per KDB 987594 D02 v01r01, Section J

Note. In case of 20 & 40 MHz bandwidth, test was performed by setting the RBW to 1MHz which is larger than that used for the 26dB bandwidth measurement.
This is a deviation from the procedures but represents a more conservative measurement.

RESULTS

Bands UNII 5 and 7 were tested in standard power mode and UNII 6 and 8 were tested in Low Power Indoor mode. As the higher power level were determined to represent the worst case with respect to the in-band emissions mask and therefore covered operations at both standard power and low power indoor power for the U-NII 5 and U-NII 7 bands.

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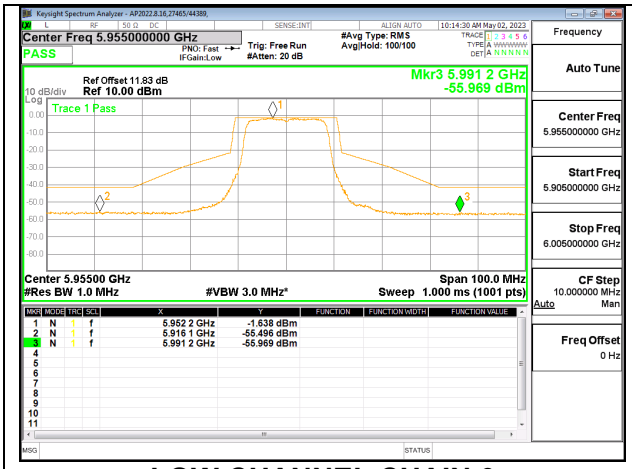
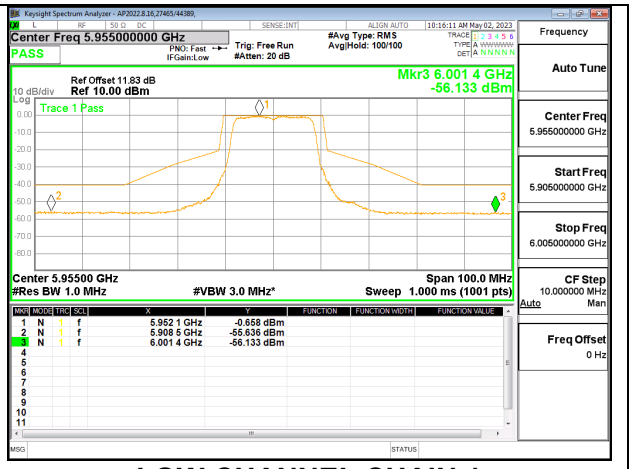
9.5.1. 802.11a MODE 2TX IN THE UNII-5 BAND

LOW

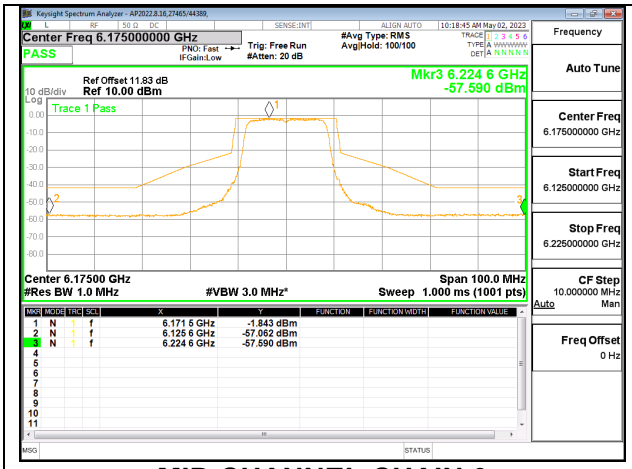


LOW CHANNEL CHAIN 0

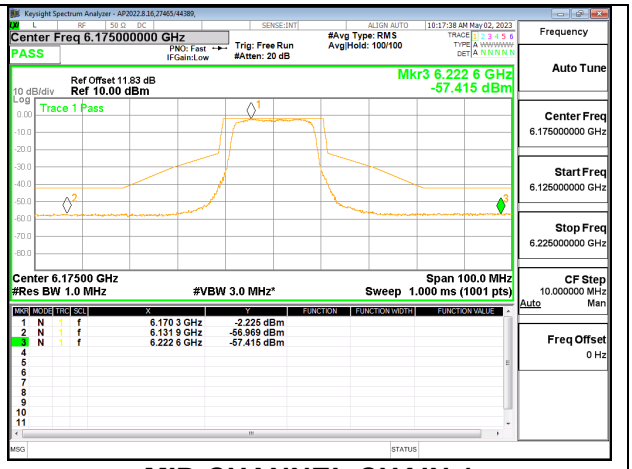


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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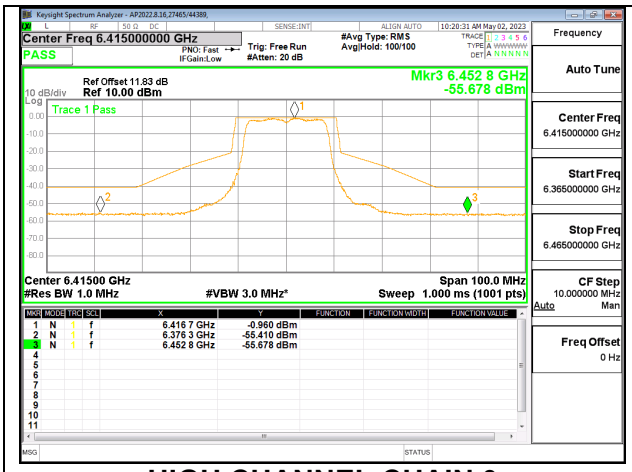
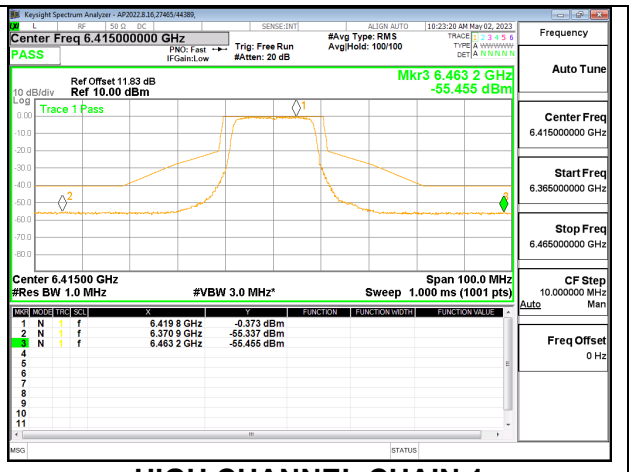
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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9.5.2. 802.11ax HE20 MODE 2TX IN THE UNII-5 BAND

2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 26T

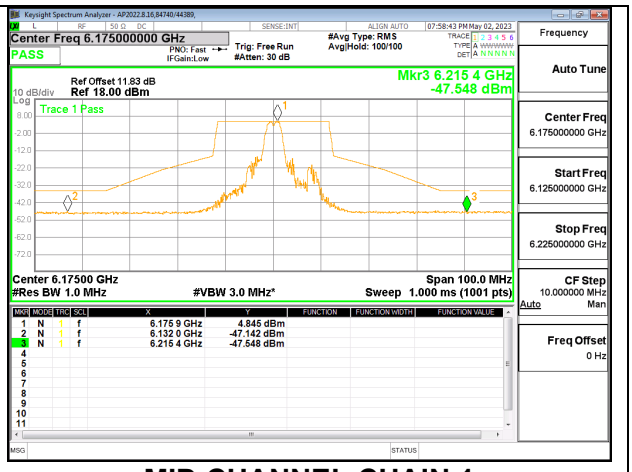
LOW

LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

MID

MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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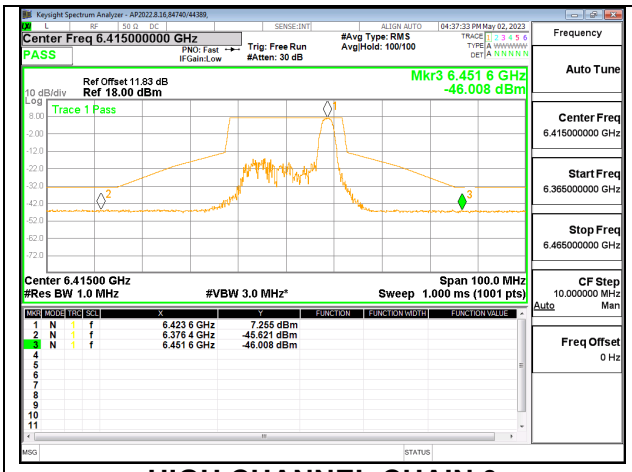
HIGH



HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

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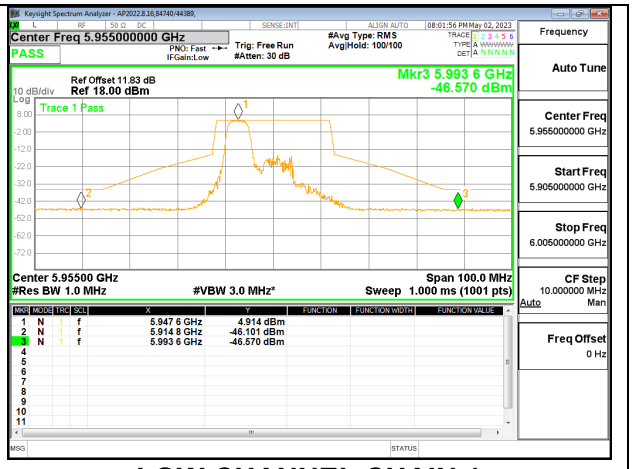
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 52T

LOW

LOW CHANNEL CHAIN 0



LOW CHANNEL CHAIN 1

MID

MID CHANNEL CHAIN 0

MID CHANNEL CHAIN 1

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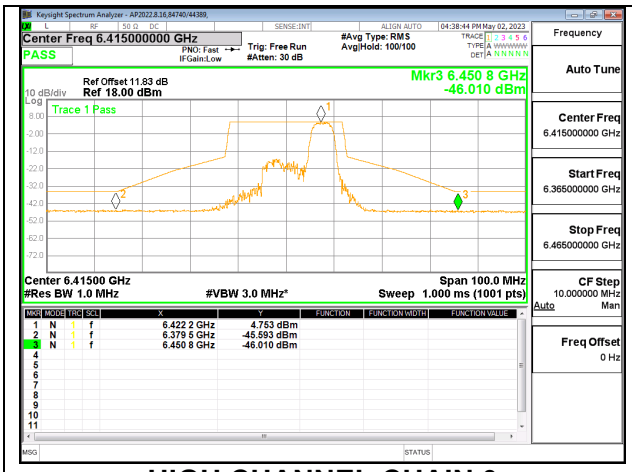
HIGH



HIGH CHANNEL CHAIN 0

HIGH CHANNEL CHAIN 1

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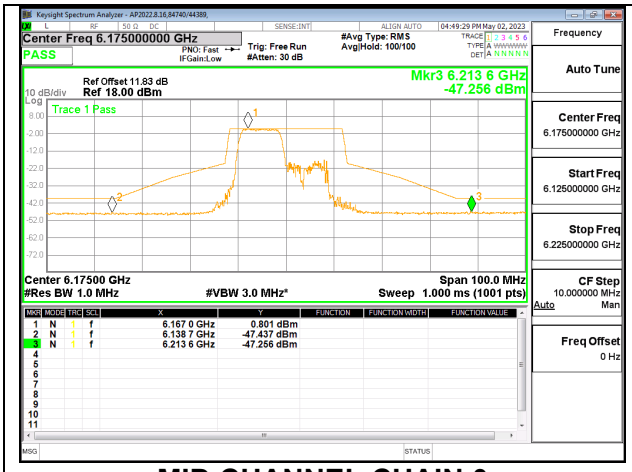
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 106T

LOW

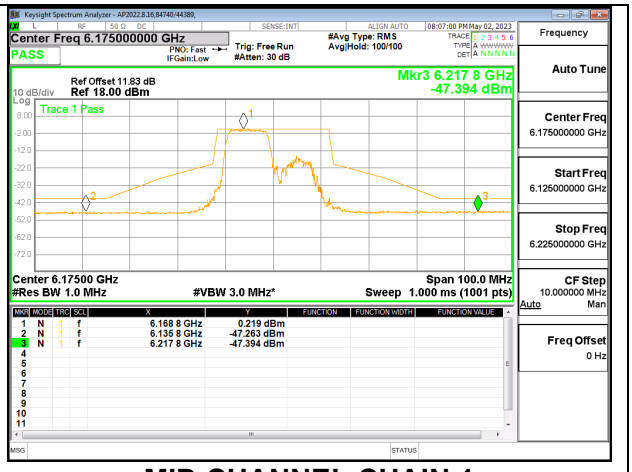
LOW CHANNEL CHAIN 0

LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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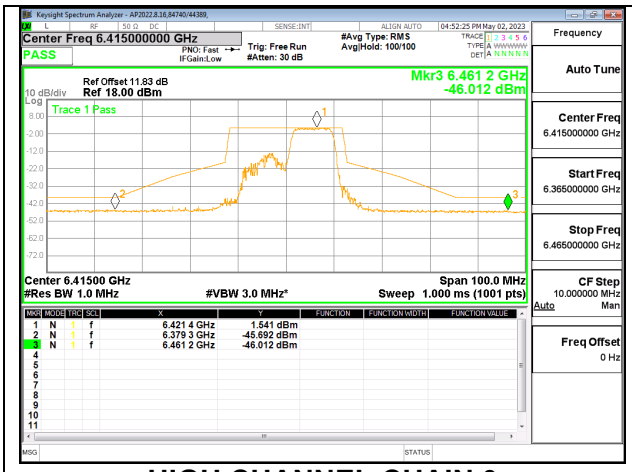
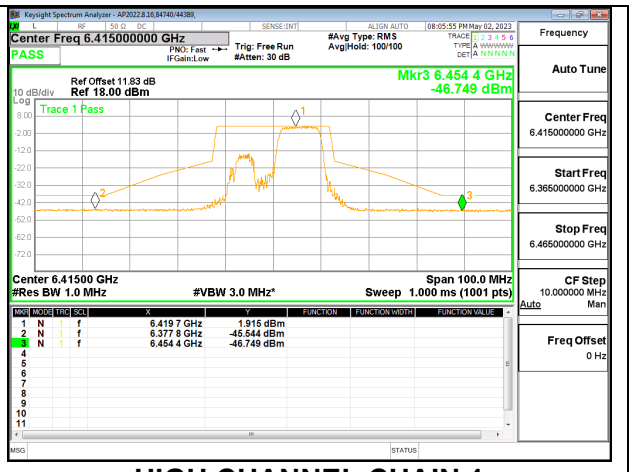
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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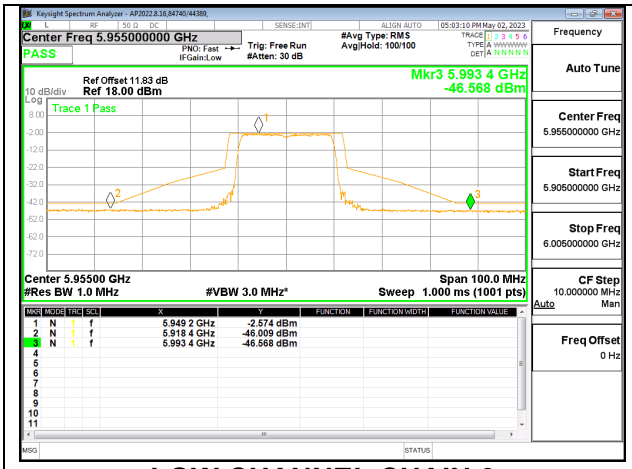
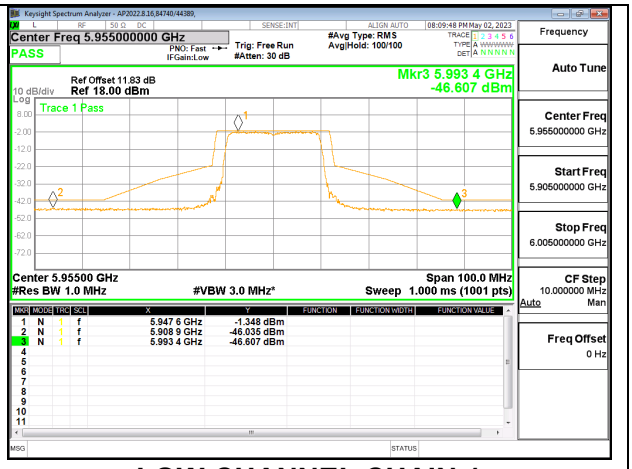
2TX CHAIN 0 + CHAIN 1 CDD OFDMA MODE: 242T

LOW

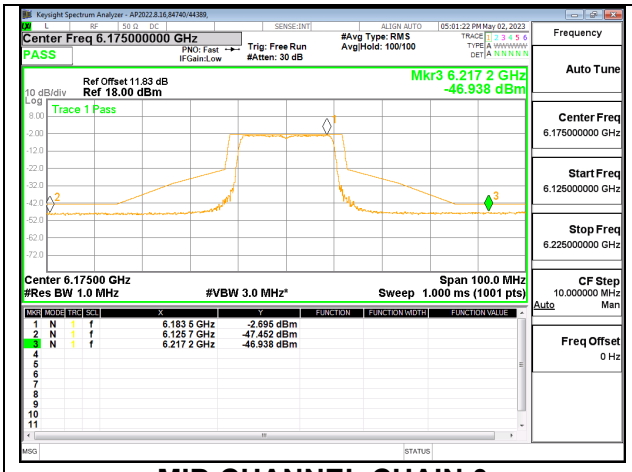


LOW CHANNEL CHAIN 0

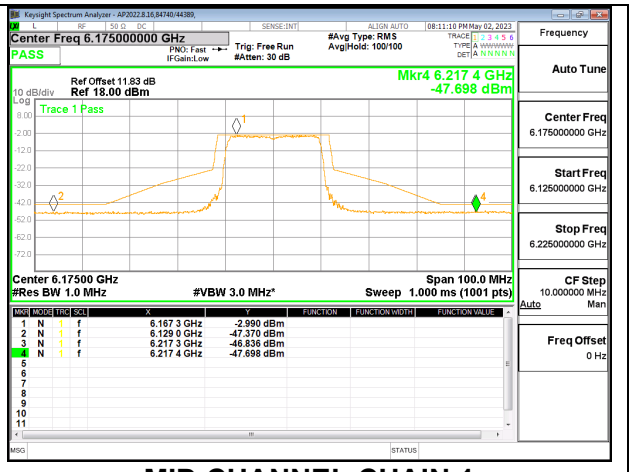


LOW CHANNEL CHAIN 1

MID



MID CHANNEL CHAIN 0



MID CHANNEL CHAIN 1

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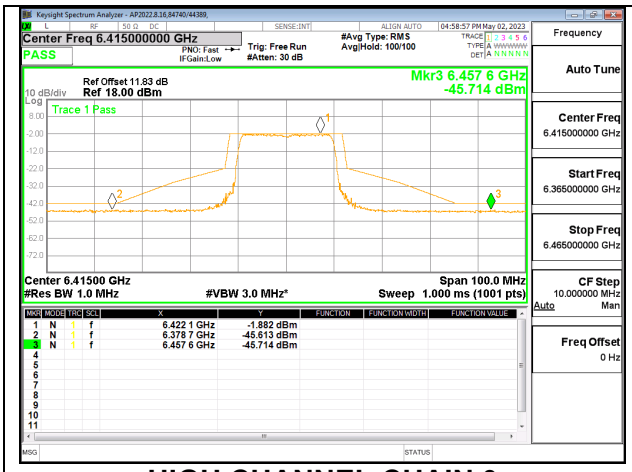
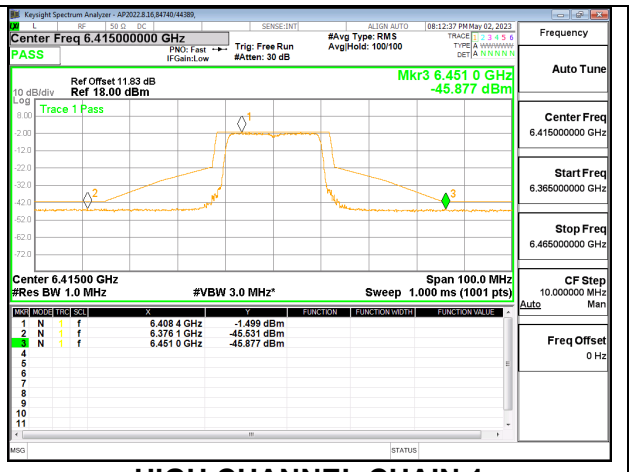
HIGH



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

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