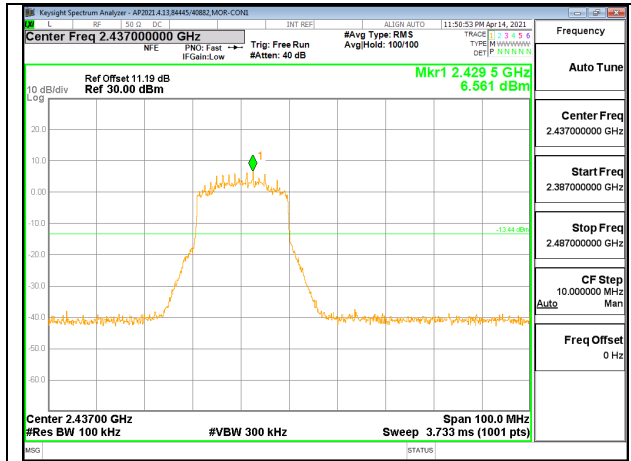
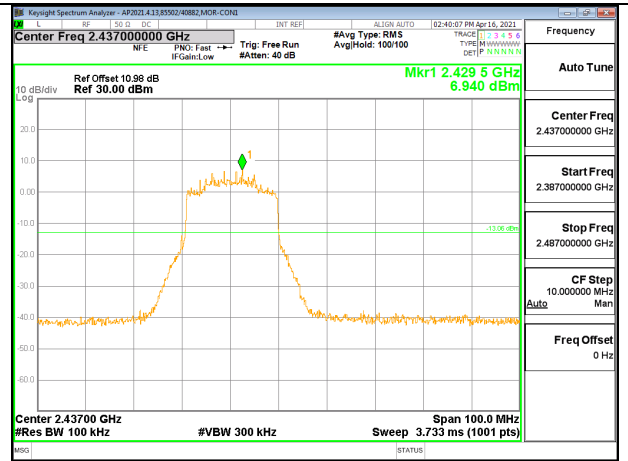


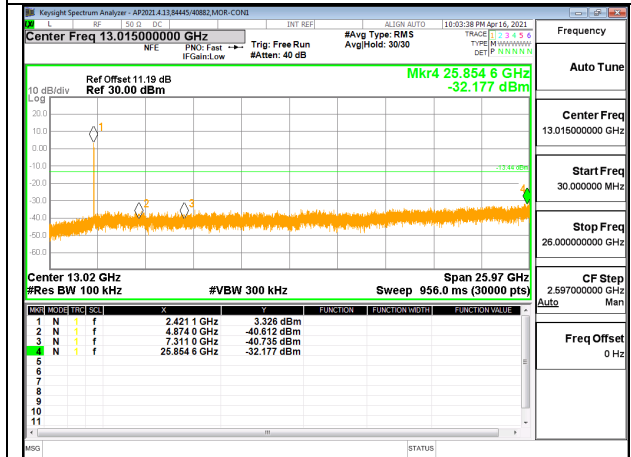
MID CHANNEL 6



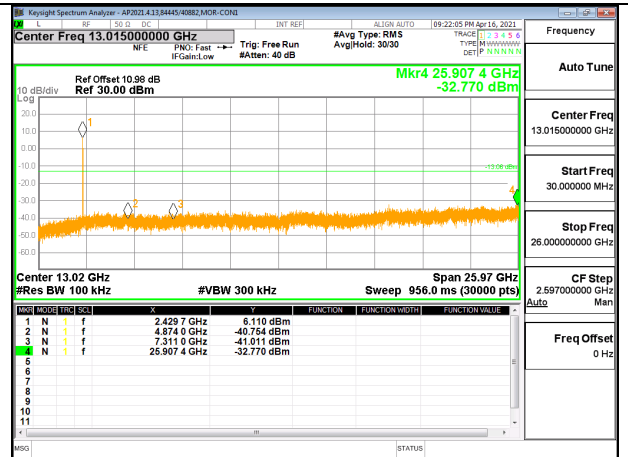
MID CHANNEL 6 Antenna A



MID CHANNEL 6 Antenna B

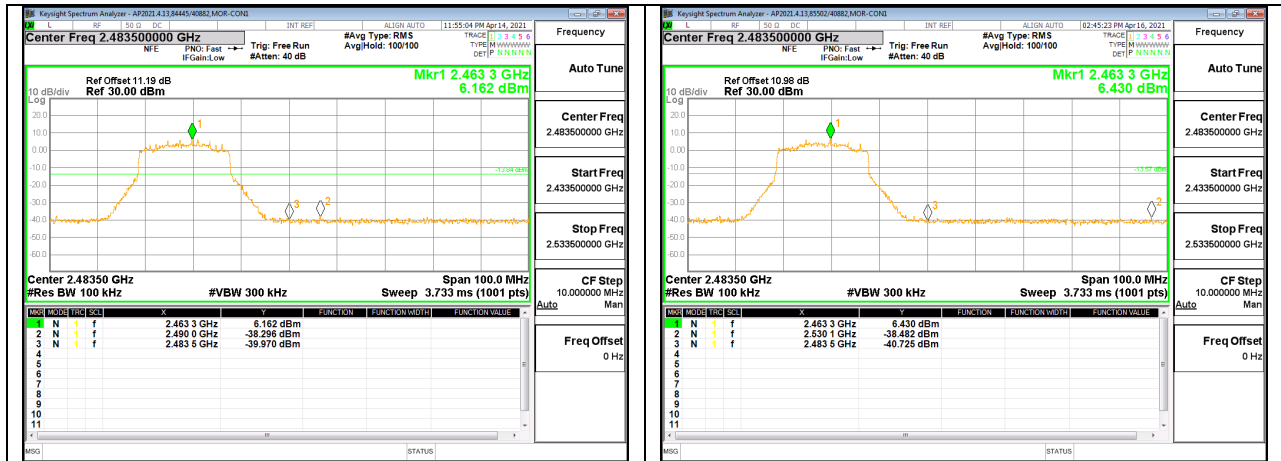


MID CHANNEL 6 Antenna A



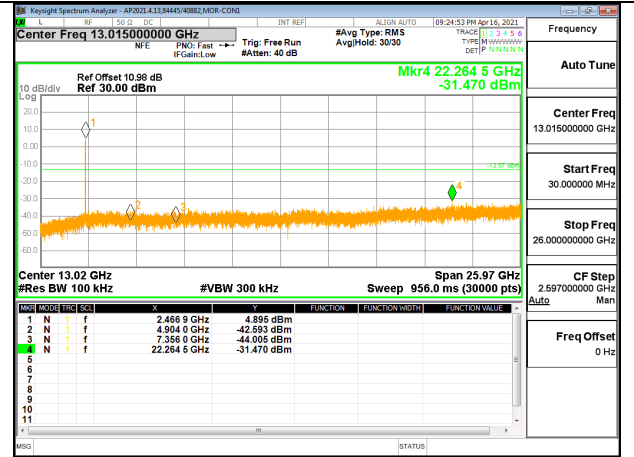
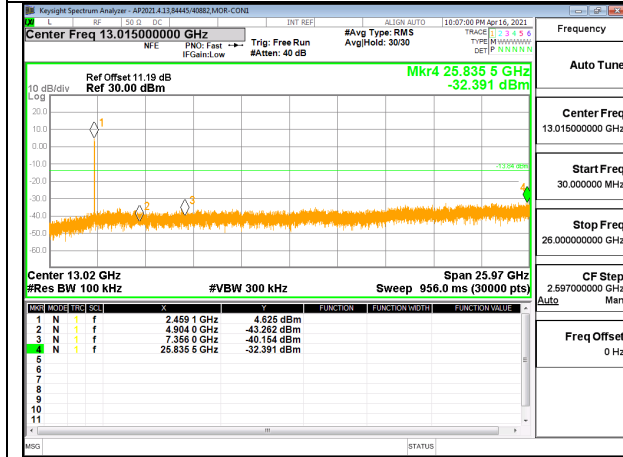
MID CHANNEL 6 Antenna B

2TX Antenna A + Antenna B OFDMA MODE: 242-Tones, RU Index 62
HIGH CHANNEL 9



HIGH CHANNEL 9 Antenna A

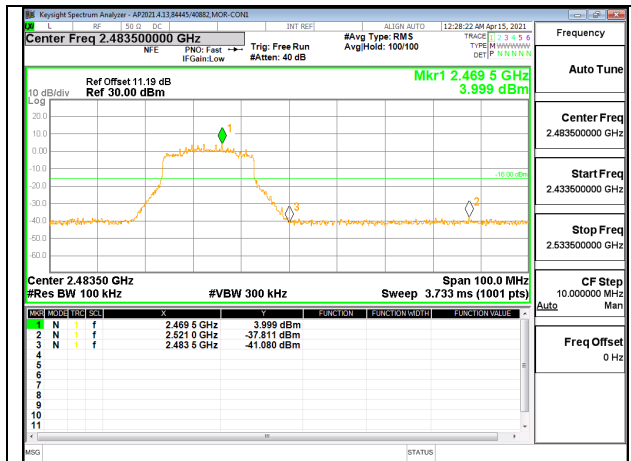
HIGH CHANNEL 9 Antenna B



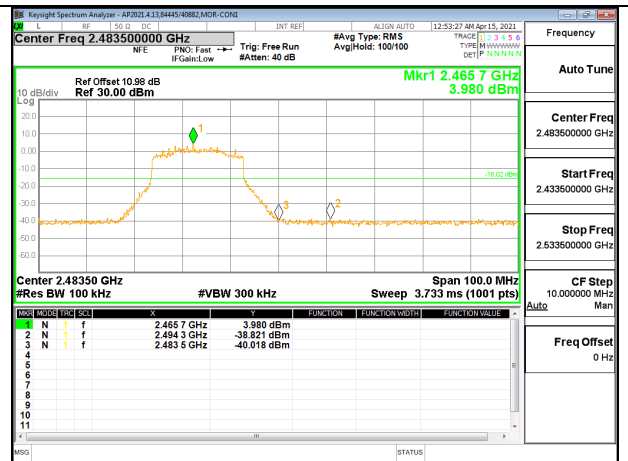
HIGH CHANNEL 9 Antenna A

HIGH CHANNEL 9 Antenna B

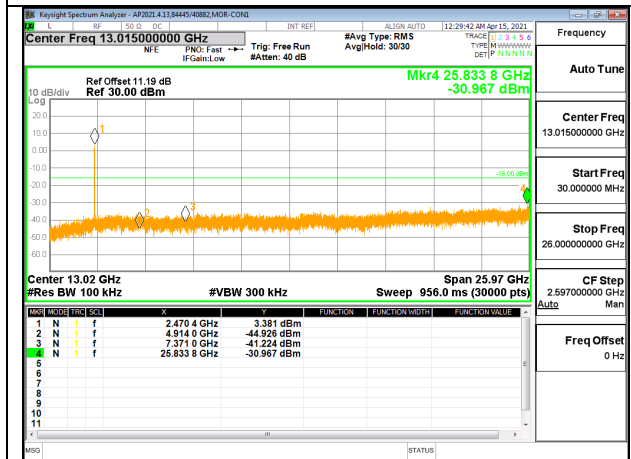
HIGH CHANNEL 10



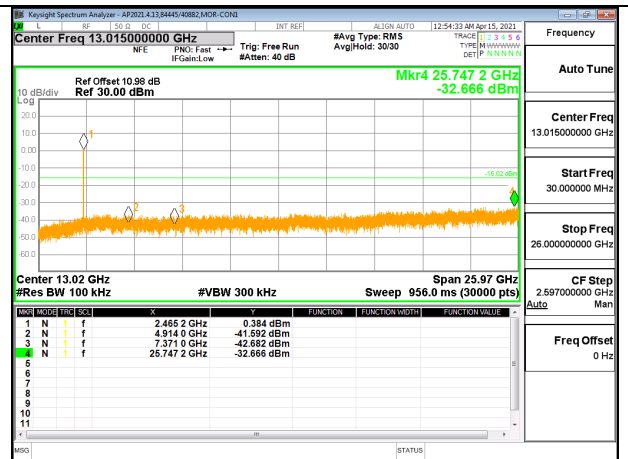
HIGH CHANNEL 10 Antenna A



HIGH CHANNEL 10 Antenna B

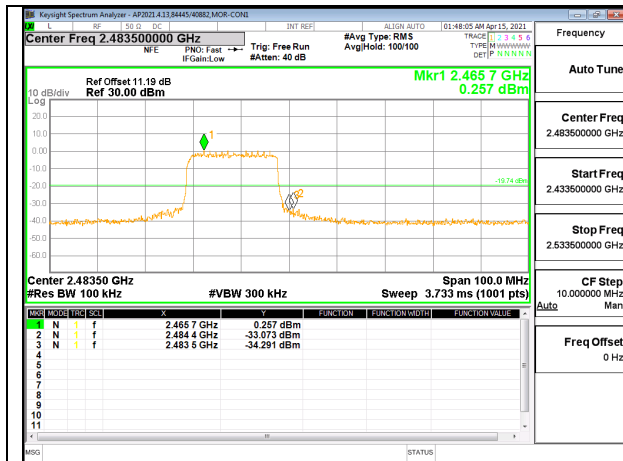


HIGH CHANNEL 10 Antenna A

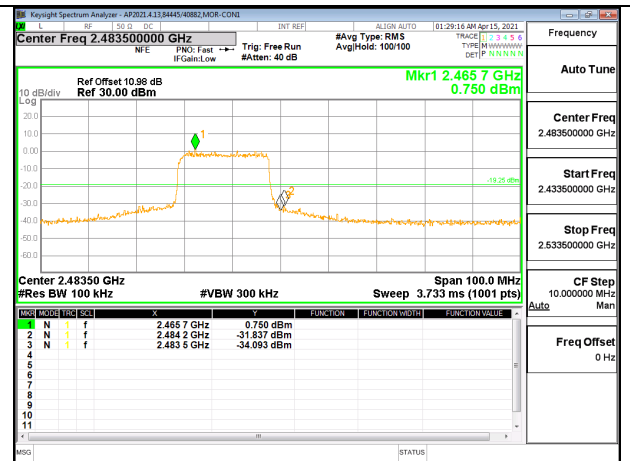


HIGH CHANNEL 10 Antenna B

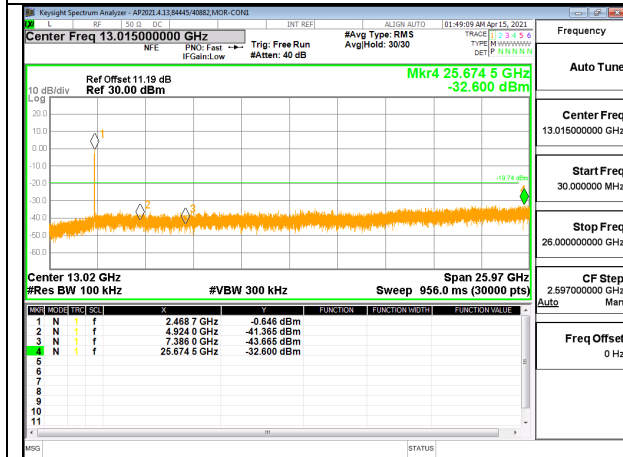
HIGH CHANNEL 11



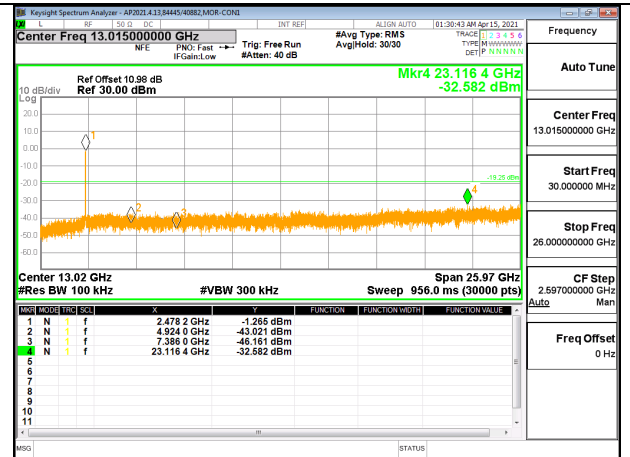
HIGH CHANNEL 11 Antenna A



HIGH CHANNEL 11 Antenna B

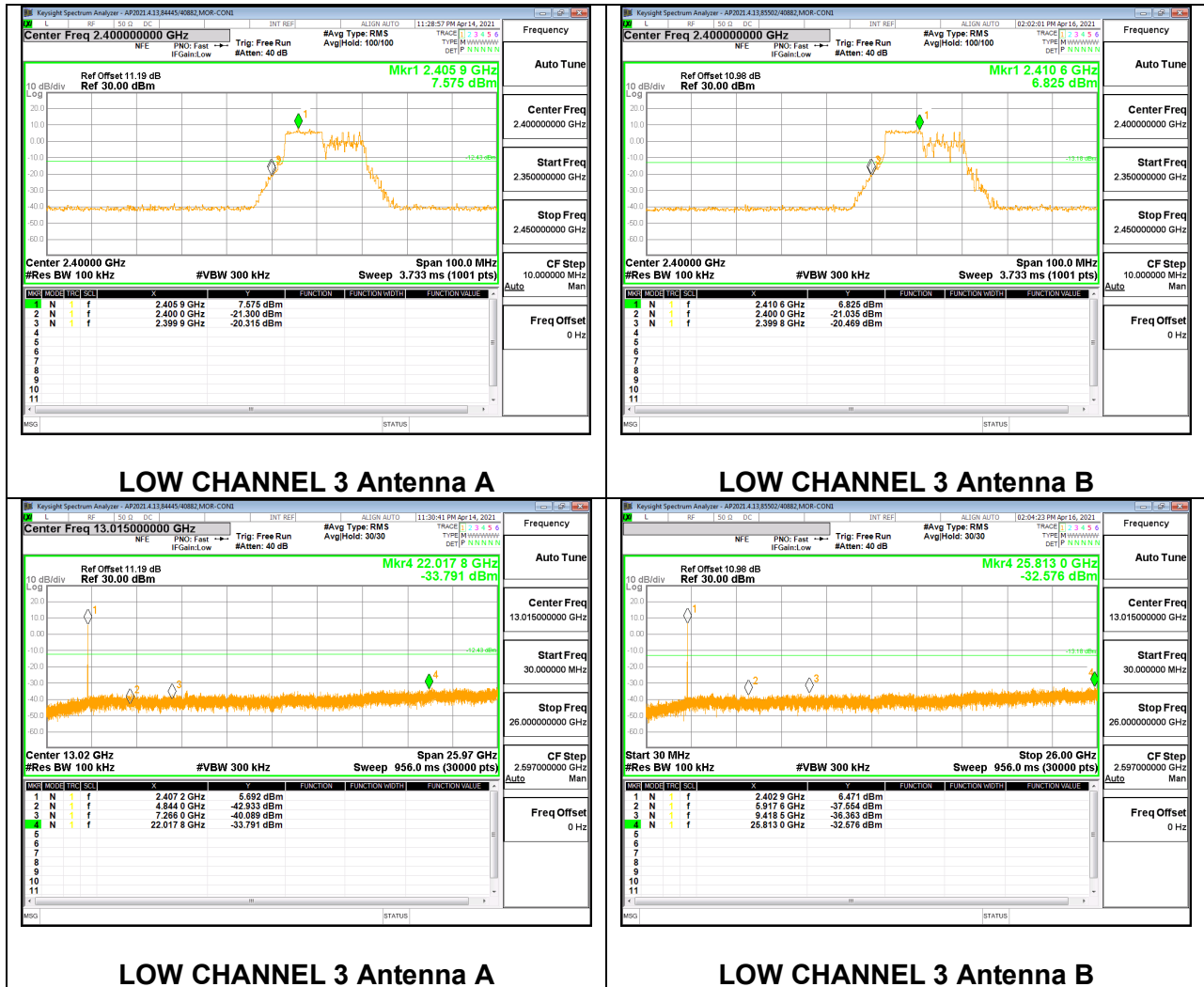


HIGH CHANNEL 11 Antenna A

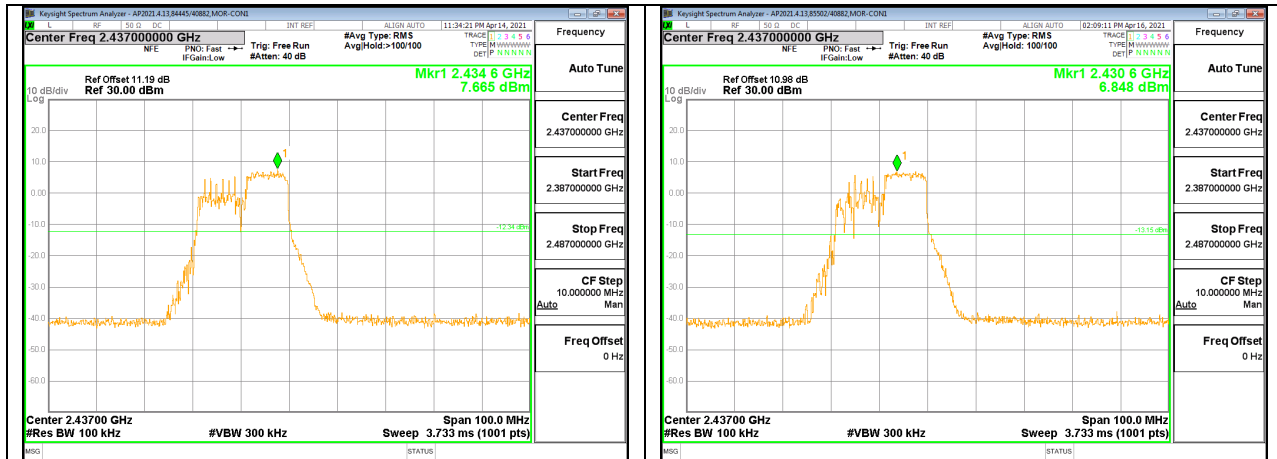


HIGH CHANNEL 11 Antenna B

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 53
LOW CHANNEL 3

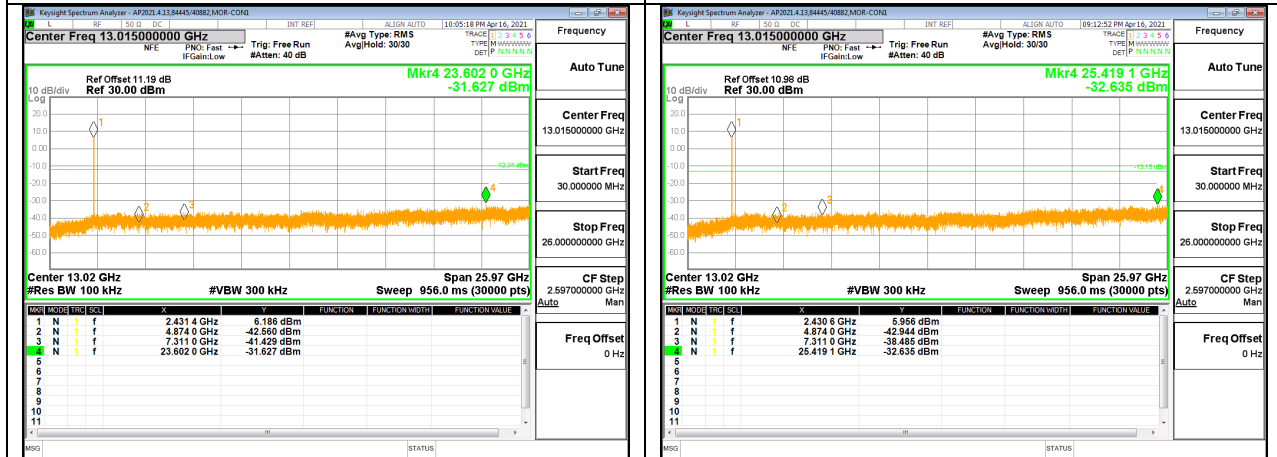


**2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 54
 MID CHANNEL 6**



MID CHANNEL 6 Antenna A

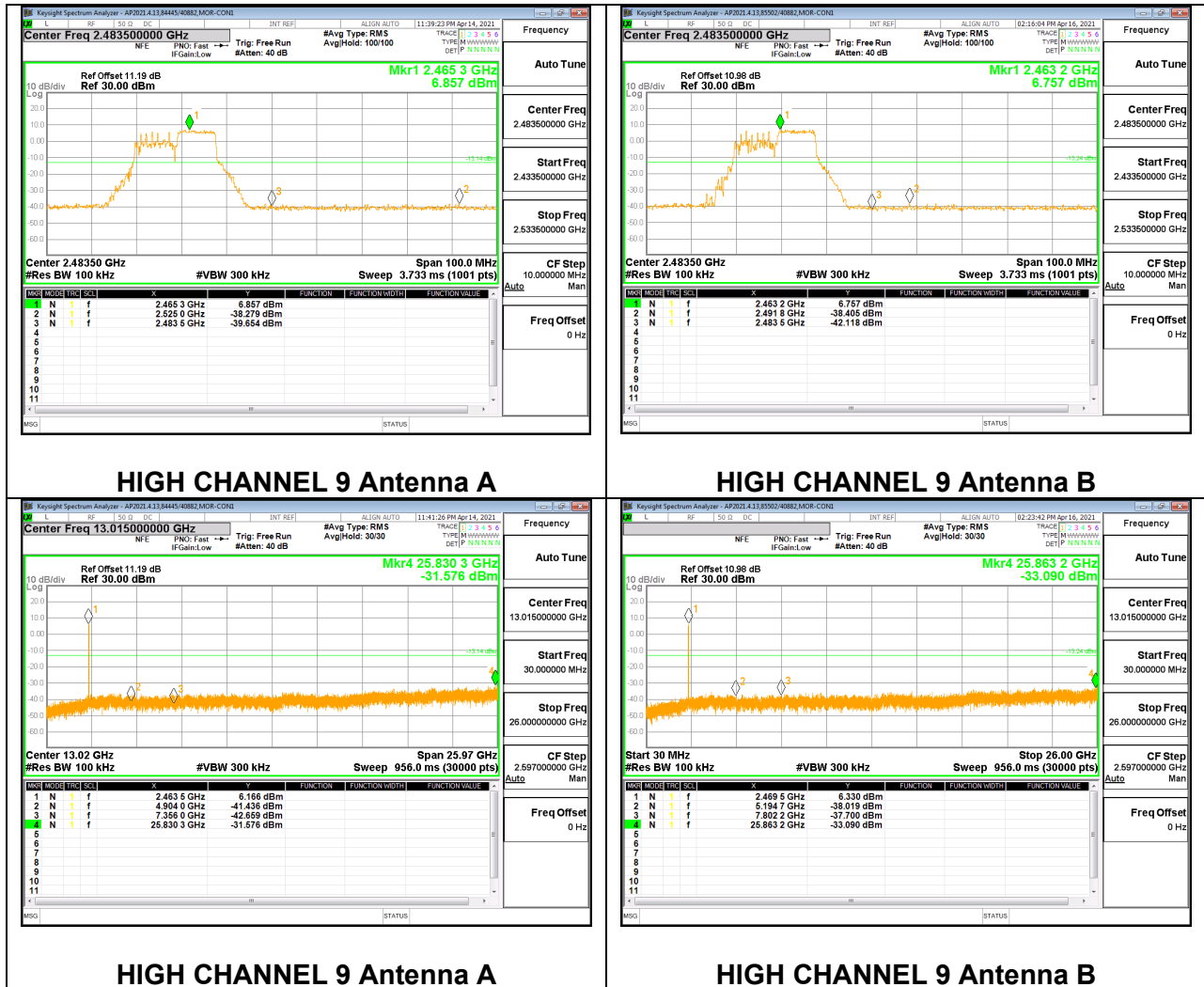
MID CHANNEL 6 Antenna B



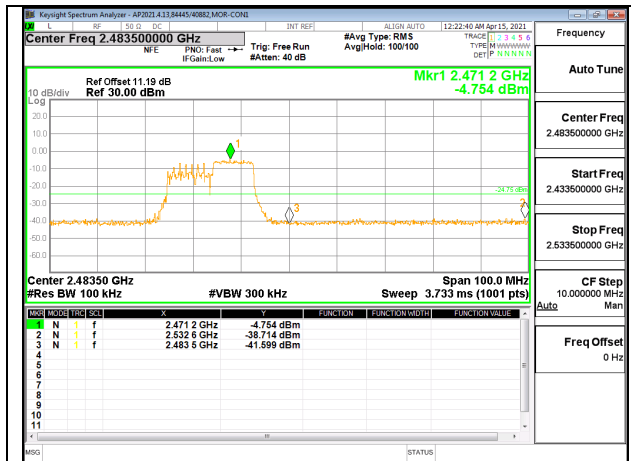
MID CHANNEL 6 Antenna A

MID CHANNEL 6 Antenna B

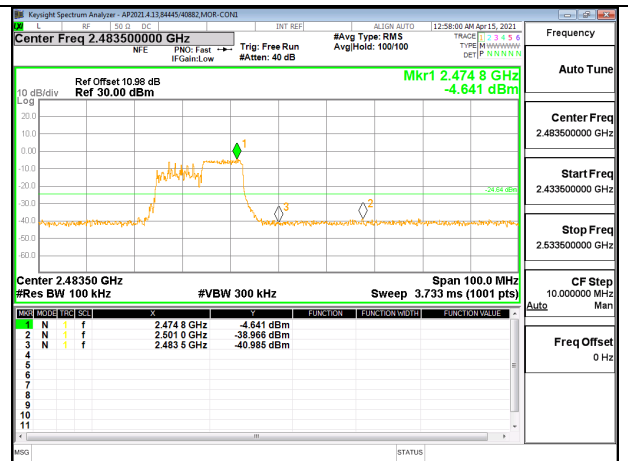
2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 56
HIGH CHANNEL 9



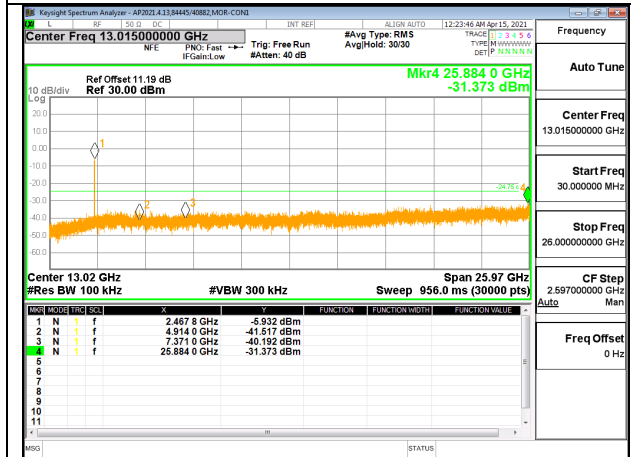
HIGH CHANNEL 10



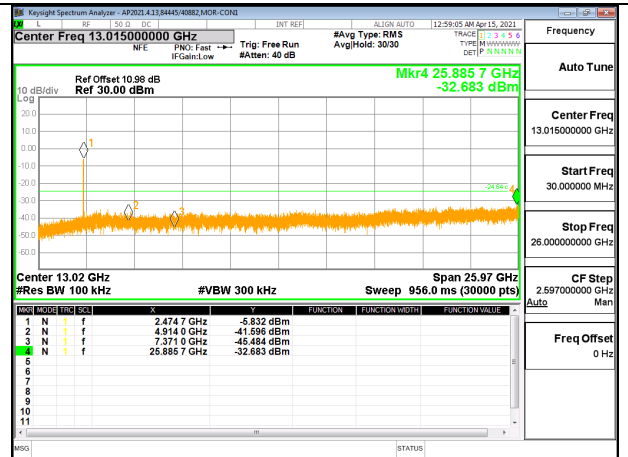
HIGH CHANNEL 10 Antenna A



HIGH CHANNEL 10 Antenna B

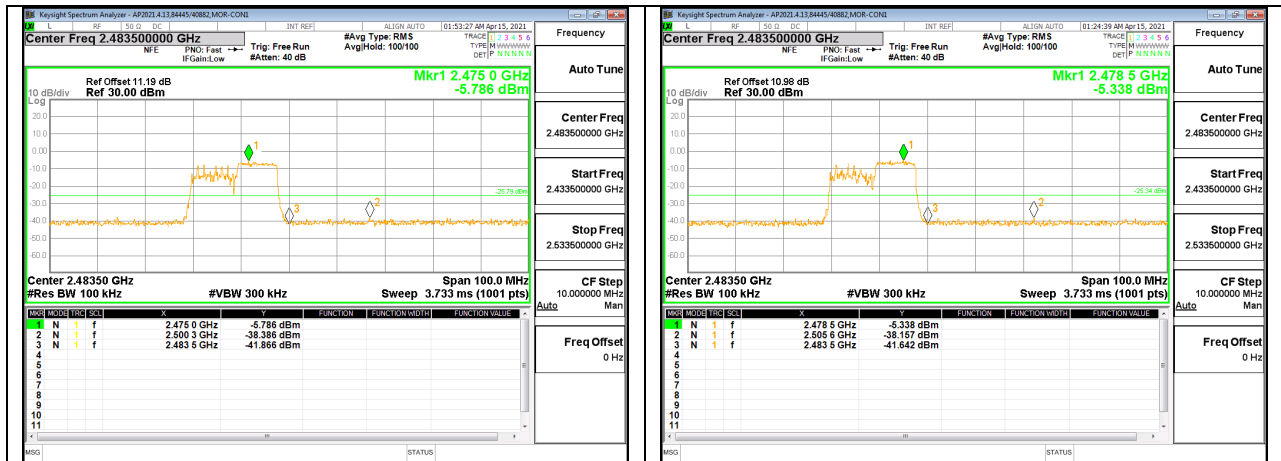


HIGH CHANNEL 10 Antenna A



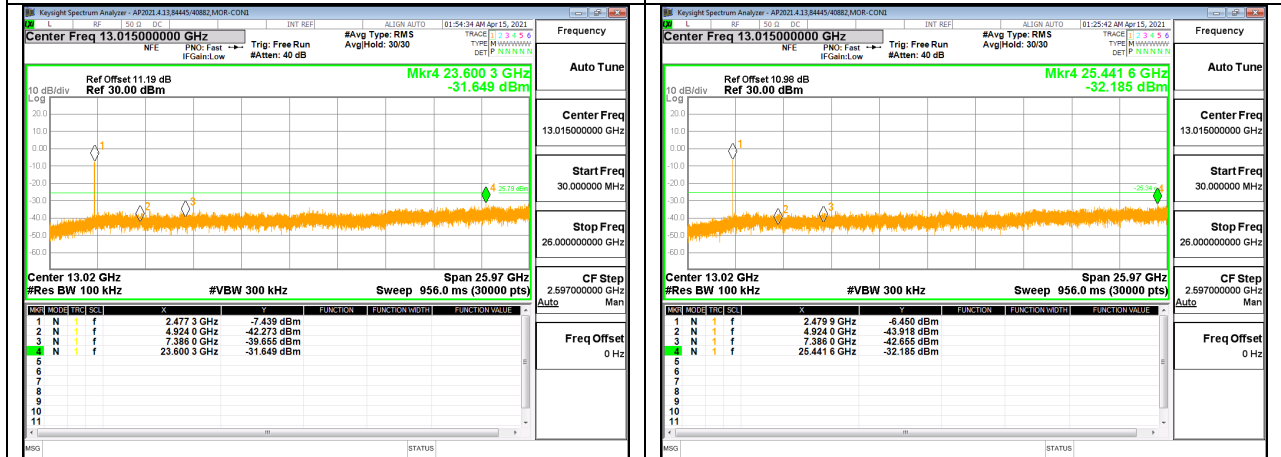
HIGH CHANNEL 10 Antenna B

HIGH CHANNEL 11



HIGH CHANNEL 11 Antenna A

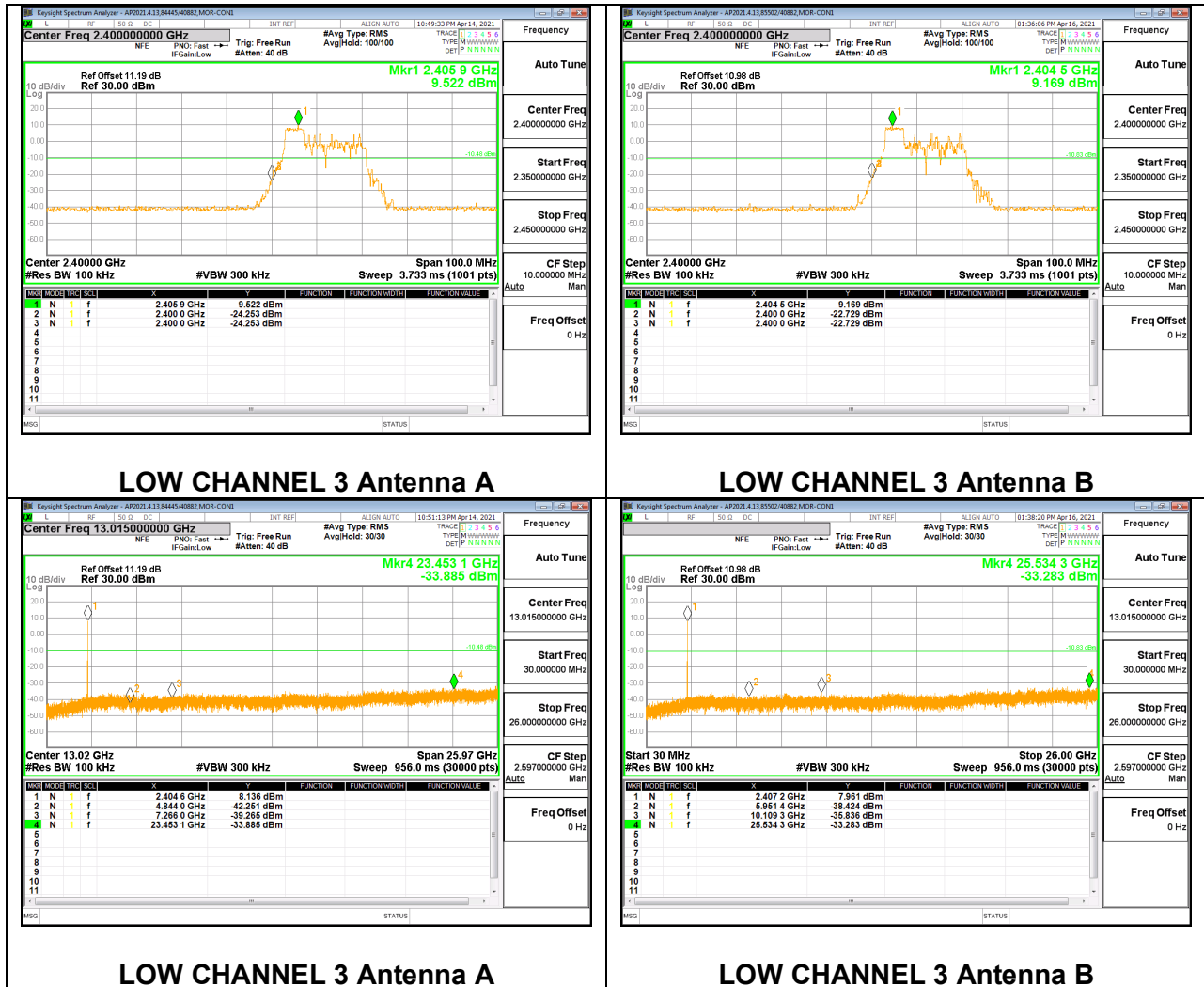
HIGH CHANNEL 11 Antenna B



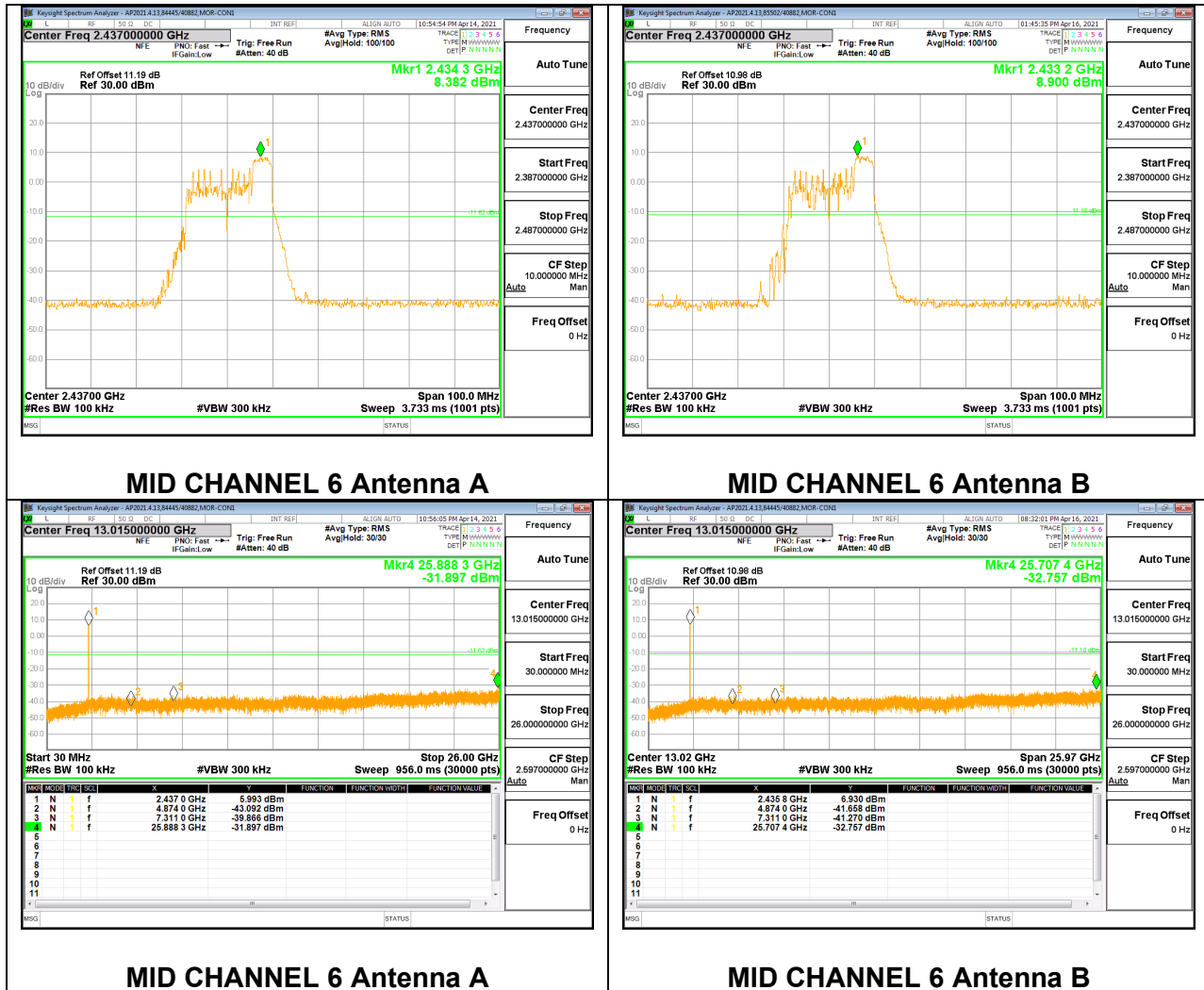
HIGH CHANNEL 11 Antenna A

HIGH CHANNEL 11 Antenna B

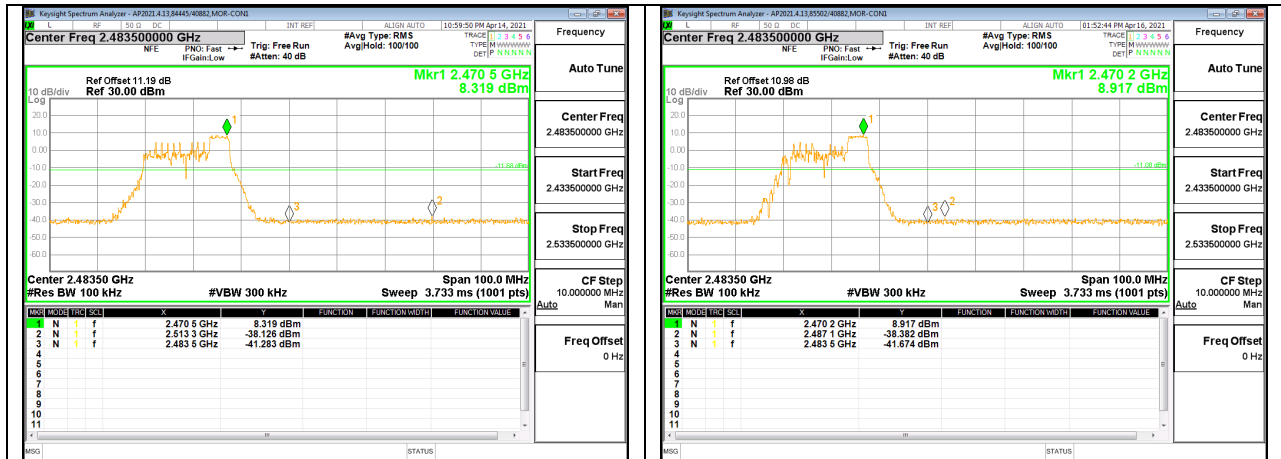
2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 37
LOW CHANNEL 3



**2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 40
 MID CHANNEL 6**

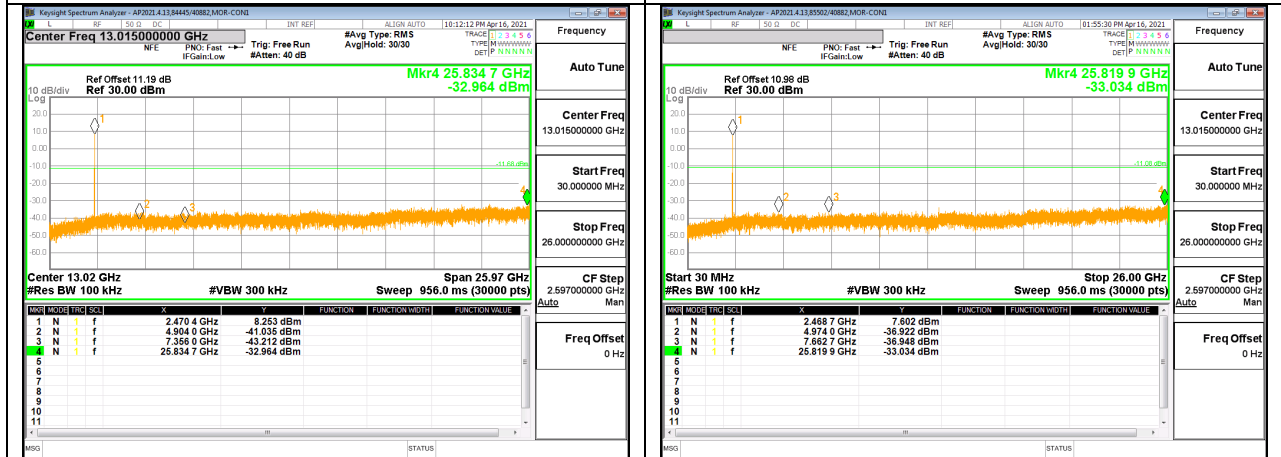


**2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 44
 HIGH CHANNEL 9**



HIGH CHANNEL 9 Antenna A

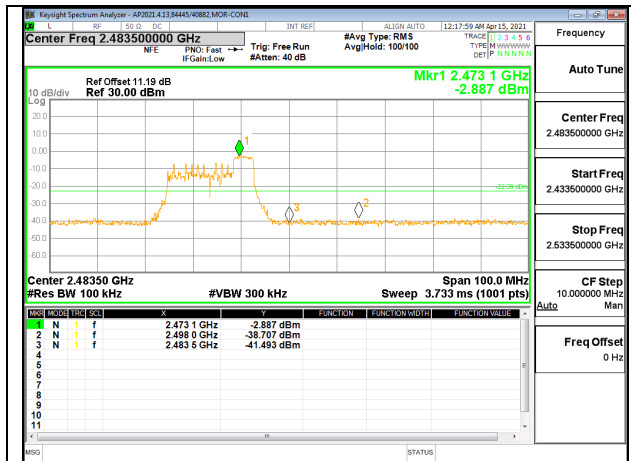
HIGH CHANNEL 9 Antenna B



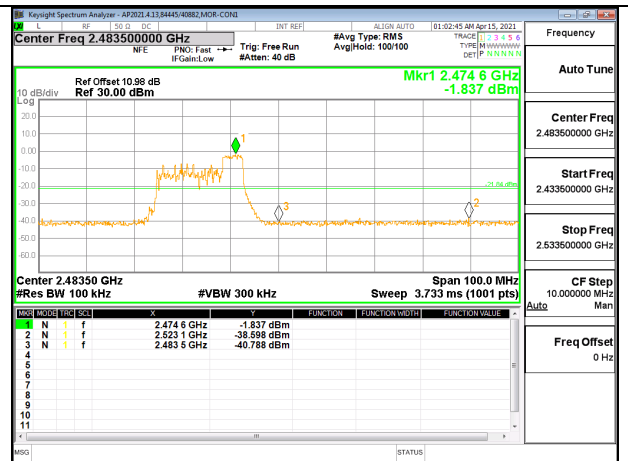
HIGH CHANNEL 9 Antenna A

HIGH CHANNEL 9 Antenna B

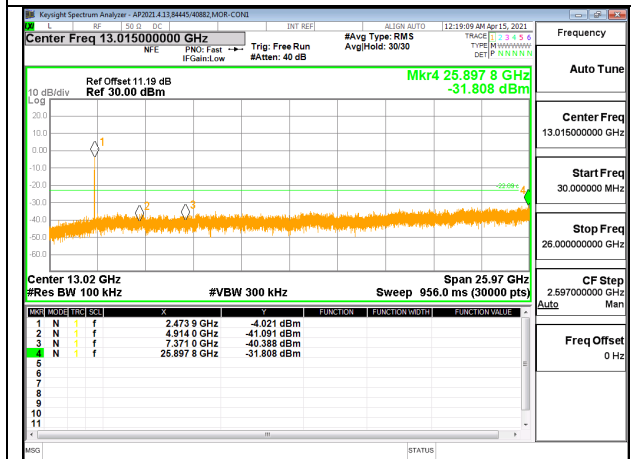
HIGH CHANNEL 10



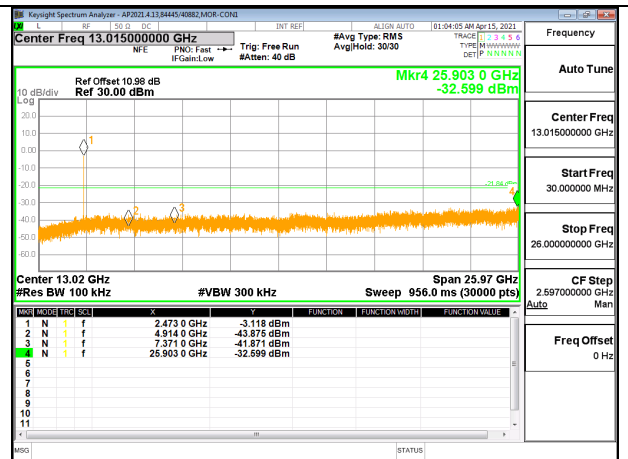
HIGH CHANNEL 10 Antenna A



HIGH CHANNEL 10 Antenna B

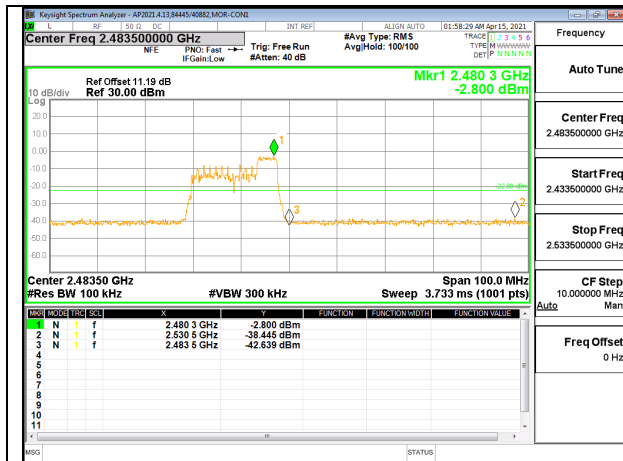


HIGH CHANNEL 10 Antenna A

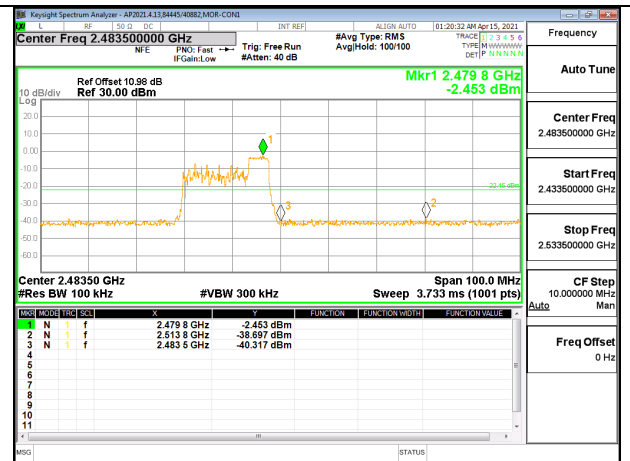


HIGH CHANNEL 10 Antenna B

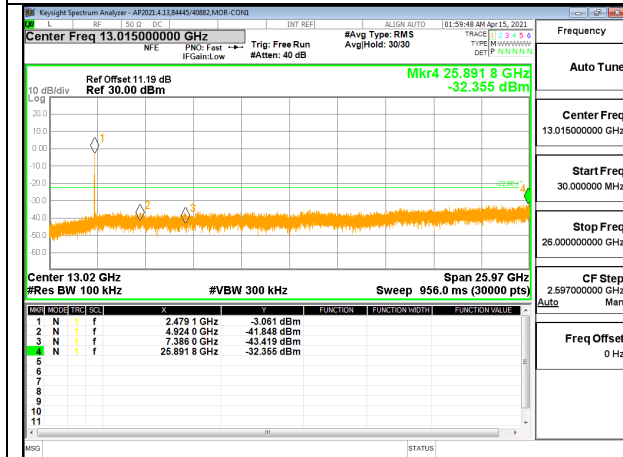
HIGH CHANNEL 11



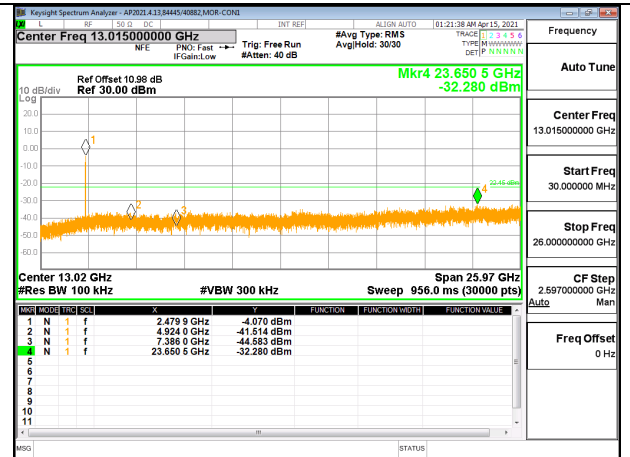
HIGH CHANNEL 11 Antenna A



HIGH CHANNEL 11 Antenna B

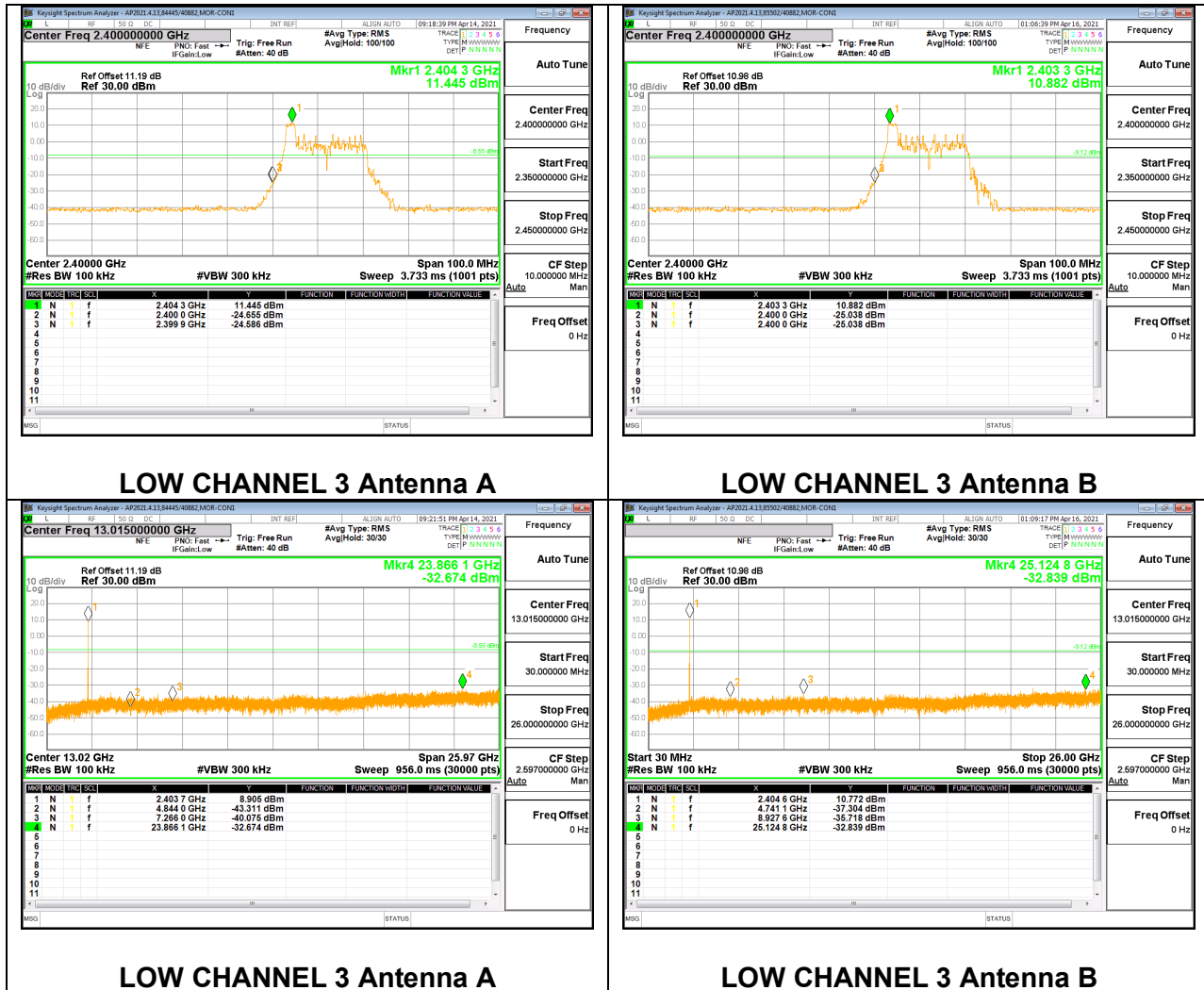


HIGH CHANNEL 11 Antenna A

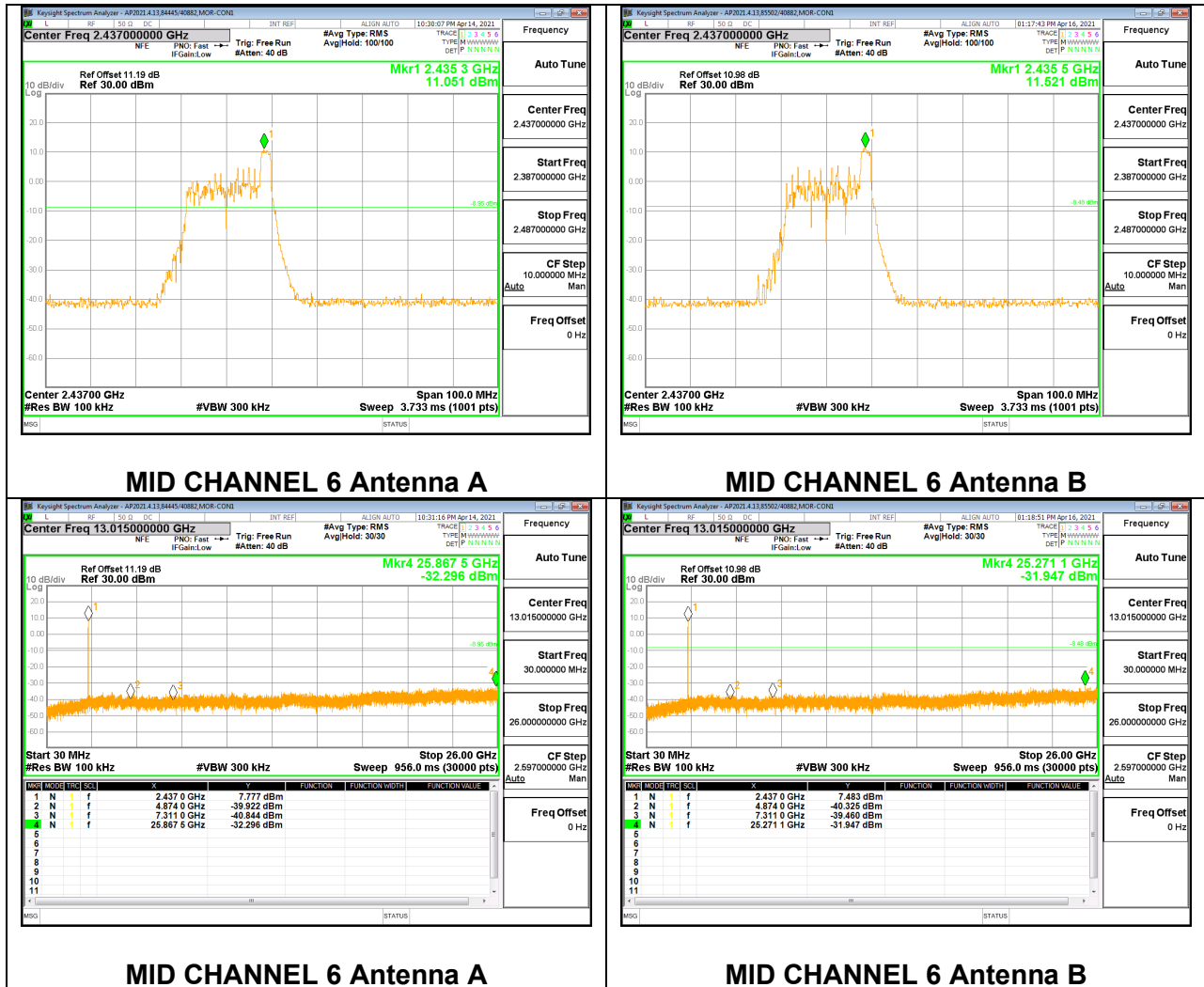


HIGH CHANNEL 11 Antenna B

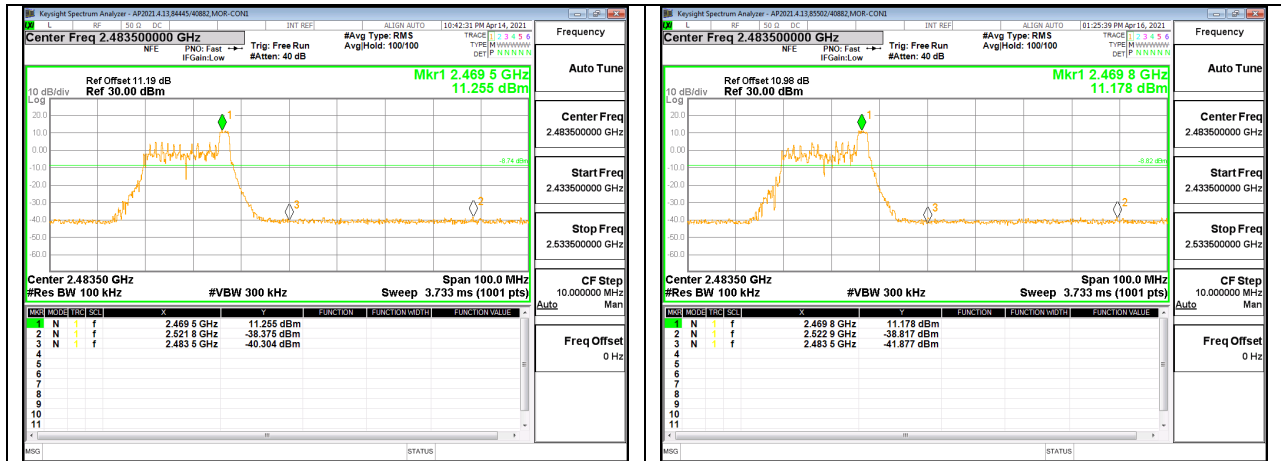
2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 0
LOW CHANNEL 3



**2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 8
 MID CHANNEL 6**

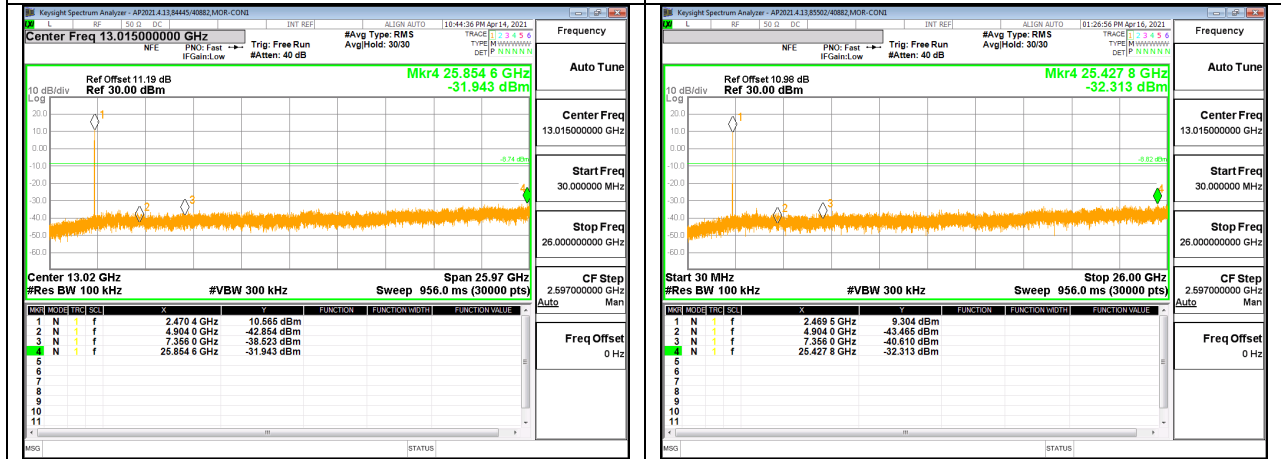


2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 17
HIGH CHANNEL 9



HIGH CHANNEL 9 Antenna A

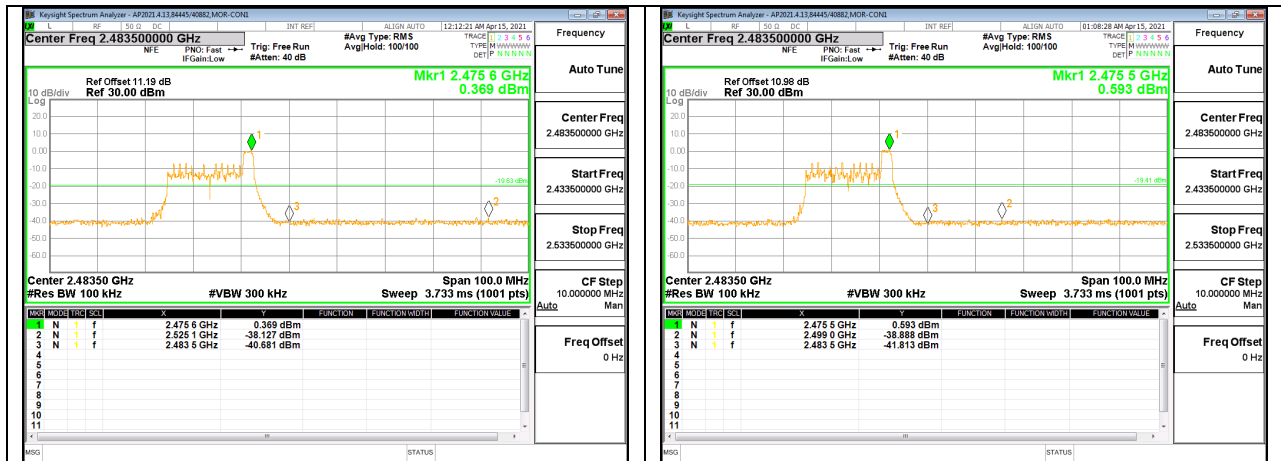
HIGH CHANNEL 9 Antenna B



HIGH CHANNEL 9 Antenna A

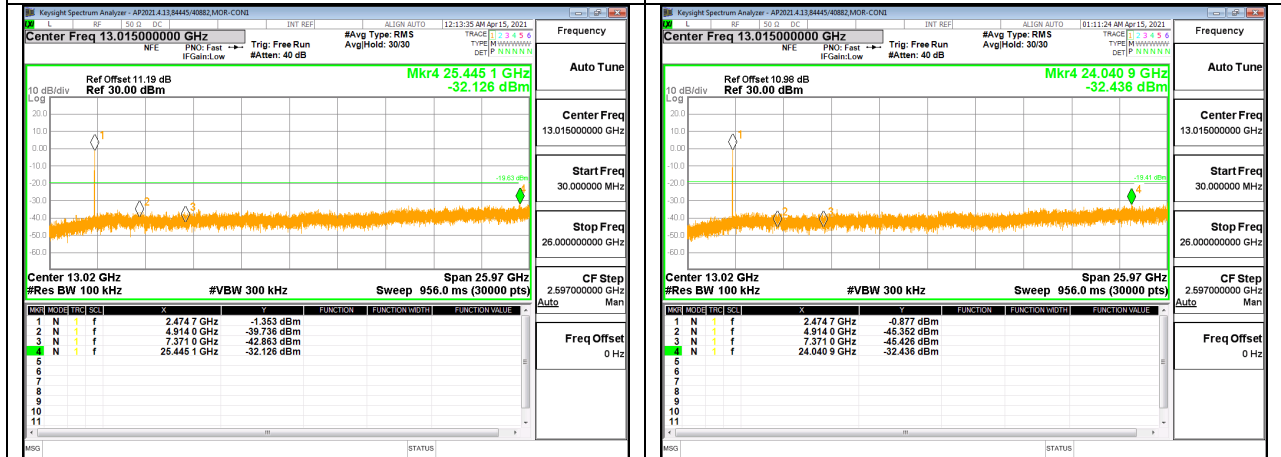
HIGH CHANNEL 9 Antenna B

HIGH CHANNEL 10



HIGH CHANNEL 10 Antenna A

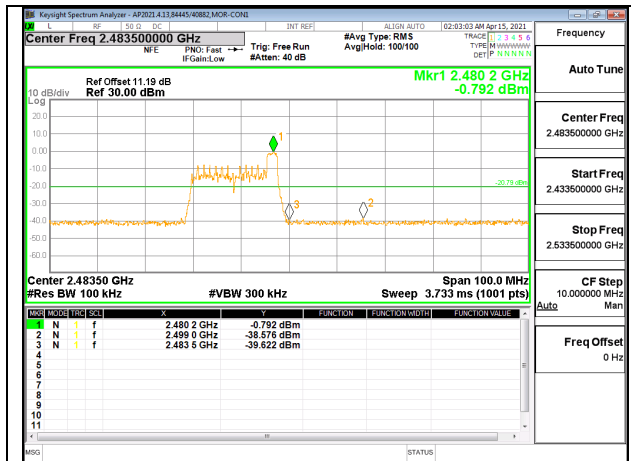
HIGH CHANNEL 10 Antenna B



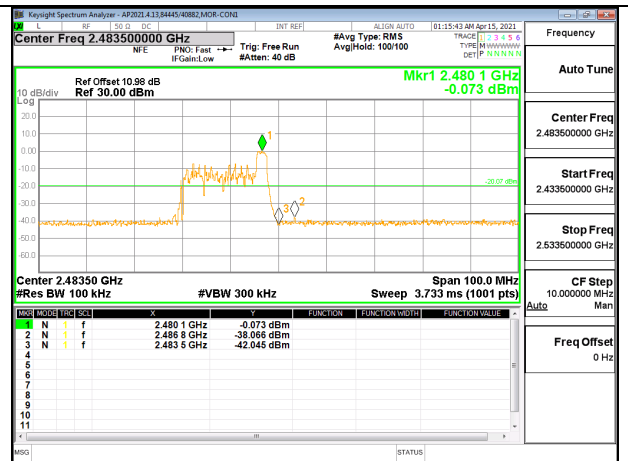
HIGH CHANNEL 10 Antenna A

HIGH CHANNEL 10 Antenna B

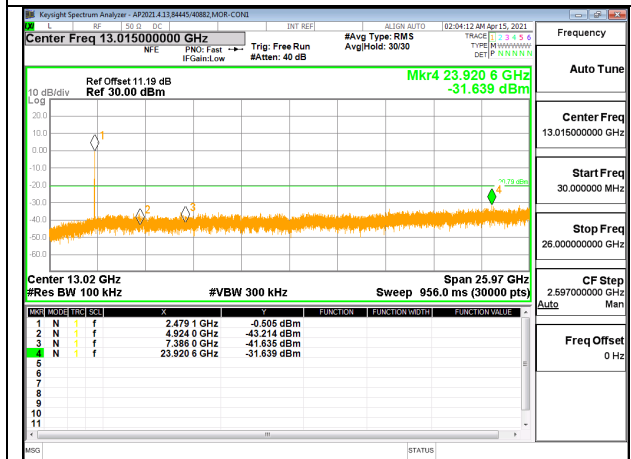
HIGH CHANNEL 11



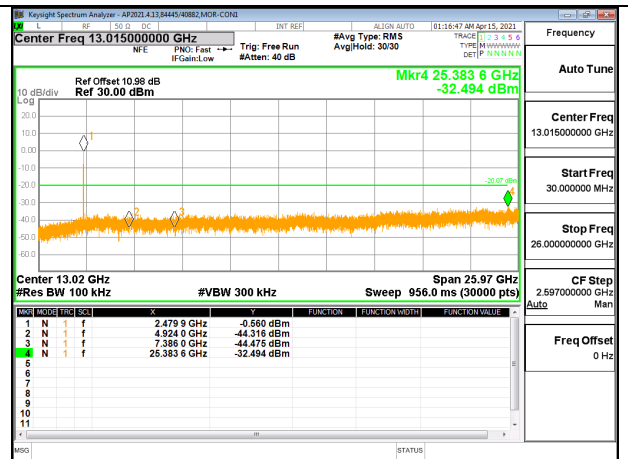
HIGH CHANNEL 11 Antenna A



HIGH CHANNEL 11 Antenna B



HIGH CHANNEL 11 Antenna A



HIGH CHANNEL 11 Antenna B

9.6. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.04 dB (including 9.77 dB pad and 1.27 dB cable) was entered as an offset in the power meter and peak power was measured.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power.

Tx chains are uncorrelated for PSD for 11ax.

The directional gains are as follows:

Band (GHz)	ANT A Antenna Gain (dBi)	ANT B Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.4	3.90	5.50	4.77	7.75

9.6.1. 802.11ax HE20 MODE 1TX

1TX Antenna A OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	23.23	23.23	30.00	-6.77
Mid 6	2437	22.82	22.82	30.00	-7.18
High 10	2457	22.77	22.77	30.00	-7.23
High 11	2462	21.80	21.80	30.00	-8.20
High 12	2467	19.10	19.10	30.00	-10.90
High 13	2472	21.30	21.30	30.00	-8.70

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.16	21.16	30.00	-8.84
Low 2	2417	21.17	21.17	30.00	-8.83
Mid 6	2437	21.07	21.07	30.00	-8.93

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	21.06	21.06	30.00	-8.94
High 11	2462	21.16	21.16	30.00	-8.84
High 12	2467	18.05	18.05	30.00	-11.95
High 13	2472	14.96	14.96	30.00	-15.04

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.12	21.12	30.00	-8.88
Low 2	2417	21.26	21.26	30.00	-8.74

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	20.89	20.89	30.00	-9.11

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	21.13	21.13	30.00	-8.87
High 11	2462	21.17	21.17	30.00	-8.83
High 12	2467	17.68	17.68	30.00	-12.32
High 13	2472	16.42	16.42	30.00	-13.58

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	19.12	19.12	30.00	-10.88
Low 2	2417	18.96	18.96	30.00	-11.04

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	19.03	19.03	30.00	-10.97

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	18.89	18.89	30.00	-11.11
High 11	2462	18.65	18.65	30.00	-11.35
High 12	2467	15.83	15.83	30.00	-14.17
High 13	2472	15.99	15.99	30.00	-14.01

1TX Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	23.05	23.05	30.00	-6.95
Mid 6	2437	22.92	22.92	30.00	-7.08
High 10	2457	22.90	22.90	30.00	-7.10
High 11	2462	21.98	21.98	30.00	-8.02
High 12	2467	19.09	19.09	30.00	-10.91
High 13	2472	20.33	20.33	30.00	-9.67

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.11	21.11	30.00	-8.89
Low 2	2417	21.00	21.00	30.00	-9.00
Mid 6	2437	21.04	21.04	30.00	-8.96

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	21.02	21.02	30.00	-8.98
High 11	2462	20.96	20.96	30.00	-9.04
High 12	2467	15.23	15.23	30.00	-14.77
High 13	2472	14.78	14.78	30.00	-15.22

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	21.04	21.04	30.00	-8.96
Low 2	2417	21.18	21.18	30.00	-8.82

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	20.78	20.78	30.00	-9.22

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	20.98	20.98	30.00	-9.02
High 11	2462	21.03	21.03	30.00	-8.97
High 12	2467	15.60	15.60	30.00	-14.40
High 13	2472	16.45	16.45	30.00	-13.55

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	30	36	30.00
Low 2	2417	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	17.44	17.44	30.00	-12.56
Low 2	2417	17.14	17.14	30.00	-12.86

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	16.63	16.63	30.00	-13.37

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00
High 12	2467	4.77	30.00	30	36	30.00
High 13	2472	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 10	2457	17.38	17.38	30.00	-12.62
High 11	2462	16.98	16.98	30.00	-13.02
High 12	2467	18.20	18.20	30.00	-11.80
High 13	2472	13.43	13.43	30.00	-16.57

9.6.1. 802.11ax HE20 MODE 2TX

2TX Antenna A + Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	36	30.00
Low 2	2417	4.77	30.00	36	30.00
Mid 6	2437	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00
High 12	2467	4.77	30.00	36	30.00
High 13	2472	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low 1	2412	21.18	21.32	24.26	30.00	-5.74
Low 2	2417	21.91	22.13	25.03	30.00	-4.97
Mid 6	2437	22.34	22.01	25.19	30.00	-4.81
High 10	2457	21.95	22.18	25.08	30.00	-4.92
High 11	2462	20.92	21.09	24.02	30.00	-5.98
High 12	2467	17.93	18.53	21.25	30.00	-8.75
High 13	2472	20.74	20.14	23.46	30.00	-6.54

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	36	30.00
Low 2	2417	4.77	30.00	36	30.00
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low 1	2412	20.92	21.07	24.01	30.00	-5.99
Low 2	2417	21.02	20.96	24.00	30.00	-6.00
Mid 6	2437	20.87	21.03	23.96	30.00	-6.04

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00
High 12	2467	4.77	30.00	36	30.00
High 13	2472	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
High 10	2457	20.98	20.97	23.99	30.00	-6.01
High 11	2462	21.03	21.01	24.03	30.00	-5.97
High 12	2467	17.75	17.70	20.74	30.00	-9.26
High 13	2472	13.24	14.77	17.08	30.00	-12.92

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	36	30.00
Low 2	2417	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low 1	2412	18.90	19.43	22.18	30.00	-7.82
Low 2	2417	18.53	19.22	21.90	30.00	-8.10

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Mid 6	2437	18.94	19.15	22.06	30.00	-7.94

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00
High 12	2467	4.77	30.00	36	30.00
High 13	2472	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
High 10	2457	18.87	19.20	22.05	30.00	-7.95
High 11	2462	18.62	19.06	21.86	30.00	-8.14
High 12	2467	17.53	17.98	20.77	30.00	-9.23
High 13	2472	16.61	14.86	18.83	30.00	-11.17

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	4.77	30.00	36	30.00
Low 2	2417	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Low 1	2412	15.68	16.00	18.85	30.00	-11.15
Low 2	2417	15.74	15.77	18.77	30.00	-11.23

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
Mid 6	2437	16.00	16.32	19.17	30.00	-10.83

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00
High 12	2467	4.77	30.00	36	30.00
High 13	2472	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margi (dB)
High 10	2457	16.12	16.30	19.22	30.00	-10.78
High 11	2462	16.11	16.24	19.19	30.00	-10.81
High 12	2467	18.03	16.78	20.46	30.00	-9.54
High 13	2472	14.32	14.49	17.42	30.00	-12.58

9.6.2. 802.11ax HE40 MODE 1TX

1TX Antenna A OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.15	21.15	30.00	-8.85
Low 4	2427	21.78	21.78	30.00	-8.22
Mid 6	2437	21.23	21.23	30.00	-8.77
High 8	2447	21.35	21.35	30.00	-8.65
High 9	2452	21.54	21.54	30.00	-8.46
High 10	2457	22.94	22.94	30.00	-7.06
High 11	2462	22.93	22.93	30.00	-7.07

1TX Antenna A OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.38	21.38	30.00	-8.62
Low 4	2427	21.71	21.71	30.00	-8.29
Mid 6	2437	22.16	22.16	30.00	-7.84

1TX Antenna A OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 9	2452	21.85	21.85	30.00	-8.15
High 10	2457	19.26	19.26	30.00	-10.74
High 11	2462	23.57	23.57	30.00	-6.43

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.03	21.03	30.00	-8.97
Low 4	2427	21.10	21.10	30.00	-8.90

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	21.28	21.28	30.00	-8.72

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	21.08	21.08	30.00	-8.92
High 9	2452	21.13	21.13	30.00	-8.87
High 10	2457	17.12	17.12	30.00	-12.88
High 11	2462	17.12	17.12	30.00	-12.88

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.08	21.08	30.00	-8.92
Low 4	2427	21.11	21.11	30.00	-8.89

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	21.19	21.19	30.00	-8.81

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	21.27	21.27	30.00	-8.73
High 9	2452	21.21	21.21	30.00	-8.79
High 10	2457	17.48	17.48	30.00	-12.52
High 11	2462	17.26	17.26	30.00	-12.74

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	19.01	19.01	30.00	-10.99
Low 4	2427	18.74	18.74	30.00	-11.26

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	18.91	18.91	30.00	-11.09

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	18.71	18.71	30.00	-11.29
High 9	2452	18.87	18.87	30.00	-11.13
High 10	2457	17.43	17.43	30.00	-12.57
High 11	2462	17.18	17.18	30.00	-12.82

1TX Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.25	21.25	30.00	-8.75
Low 4	2427	20.93	20.93	30.00	-9.07
Mid 6	2437	21.34	21.34	30.00	-8.66
High 8	2447	21.15	21.15	30.00	-8.85
High 9	2452	21.31	21.31	30.00	-8.69
High 10	2457	21.88	21.88	30.00	-8.12
High 11	2462	22.48	22.48	30.00	-7.52

1TX Antenna B OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.79	21.79	30.00	-8.21
Low 4	2427	21.86	21.86	30.00	-8.14
Mid 6	2437	22.10	22.10	30.00	-7.90

1TX Antenna B OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 9	2452	21.94	21.94	30.00	-8.06
High 10	2457	19.48	19.48	30.00	-10.52
High 11	2462	17.17	17.17	30.00	-12.83

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	20.94	20.94	30.00	-9.06
Low 4	2427	20.88	20.88	30.00	-9.12

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	21.13	21.13	30.00	-8.87

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	21.00	21.00	30.00	-9.00
High 9	2452	20.96	20.96	30.00	-9.04
High 10	2457	16.36	16.36	30.00	-13.64
High 11	2462	16.75	16.75	30.00	-13.25

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	20.14	20.14	30.00	-9.86
Low 4	2427	20.08	20.08	30.00	-9.92

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	20.20	20.20	30.00	-9.80

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	20.25	20.25	30.00	-9.75
High 9	2452	20.12	20.12	30.00	-9.88
High 10	2457	15.56	15.56	30.00	-14.44
High 11	2462	13.91	13.91	30.00	-16.09

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	30	36	30.00
Low 4	2427	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	17.32	17.32	30.00	-12.68
Low 4	2427	17.03	17.03	30.00	-12.97

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	16.99	16.99	30.00	-13.01

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	30	36	30.00
High 9	2452	4.77	30.00	30	36	30.00
High 10	2457	4.77	30.00	30	36	30.00
High 11	2462	4.77	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	17.39	17.39	30.00	-12.61
High 9	2452	17.15	17.15	30.00	-12.85
High 10	2457	15.00	15.00	30.00	-15.00
High 11	2462	16.76	16.76	30.00	-13.24

9.6.1. 802.11ax HE40 MODE 2TX

2TX Antenna A + Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	36	30.00
Low 4	2427	4.77	30.00	36	30.00
Mid 6	2437	4.77	30.00	36	30.00
High 9	2452	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	21.11	21.16	24.15	30.00	-5.85
Low 4	2427	20.86	21.12	24.00	30.00	-6.00
Mid 6	2437	20.78	20.90	23.85	30.00	-6.15
High 8	2447	20.81	21.04	23.94	30.00	-6.06
High 9	2452	20.91	21.07	24.00	30.00	-6.00
High 10	2457	22.41	22.28	25.36	30.00	-4.64
High 11	2462	22.56	22.64	25.61	30.00	-4.39

2TX Antenna A + Antenna B OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	36	30.00
Low 4	2427	4.77	30.00	36	30.00
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	20.93	21.24	24.10	30.00	-5.90
Low 4	2427	21.84	21.96	24.91	30.00	-5.09
Mid 6	2437	21.68	22.15	24.93	30.00	-5.07

2TX Antenna A + Antenna B OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2021-04-15

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	36	30.00
High 9	2452	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	22.15	22.21	25.19	30.00	-4.81
High 9	2452	20.90	21.14	24.03	30.00	-5.97
High 10	2457	18.06	18.05	21.07	30.00	-8.93
High 11	2462	21.14	20.82	23.99	30.00	-6.01

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	36	30.00
Low 4	2427	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	20.93	20.92	23.94	30.00	-6.06
Low 4	2427	21.03	20.90	23.98	30.00	-6.02

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	21.03	21.03	24.04	30.00	-5.96

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	36	30.00
High 9	2452	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	20.95	20.92	23.95	30.00	-6.05
High 9	2452	21.00	20.92	23.97	30.00	-6.03
High 10	2457	17.45	17.72	20.60	30.00	-9.40
High 11	2462	16.78	15.77	19.31	30.00	-10.69

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	36	30.00
Low 4	2427	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	19.26	19.09	22.19	30.00	-7.81
Low 4	2427	18.84	19.02	21.94	30.00	-8.06

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	19.12	19.27	22.21	30.00	-7.79

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	36	30.00
High 9	2452	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	19.02	19.26	22.15	30.00	-7.85
High 9	2452	18.92	19.17	22.06	30.00	-7.94
High 10	2457	18.04	16.48	20.34	30.00	-9.66
High 11	2462	17.17	16.68	19.94	30.00	-10.06

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 3	2422	4.77	30.00	36	30.00
Low 4	2427	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 3	2422	15.86	16.13	19.01	30.00	-10.99
Low 4	2427	15.50	15.90	18.71	30.00	-11.29

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Mid 6	2437	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Mid 6	2437	15.88	16.01	18.96	30.00	-11.04

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
High 8	2447	4.77	30.00	36	30.00
High 9	2452	4.77	30.00	36	30.00
High 10	2457	4.77	30.00	36	30.00
High 11	2462	4.77	30.00	36	30.00

Results

Channel	Frequency (MHz)	ANT A Meas Power (dBm)	ANT B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
High 8	2447	15.97	16.03	19.01	30.00	-10.99
High 9	2452	15.99	16.18	19.10	30.00	-10.90
High 10	2457	17.43	18.09	20.78	30.00	-9.22
High 11	2462	16.76	16.59	19.69	30.00	-10.31

9.7. AVERAGE POWER

LIMITS

None; for reporting purposes only

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.04 dB (including 9.77 dB pad and 1.27 dB cable) was entered as an offset in the power meter and gated average power was measured.

RESULTS

9.7.1. 802.11ax HE20 MODE 1TX

1TX Antenna A OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 1	2412	17.75
Mid 6	2437	17.80
High 10	2457	17.71
High 11	2462	16.82
High 12	2467	13.71
High 13	2472	9.80

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 1	2412	16.77
Low 2	2417	16.91
Mid 6	2437	16.85

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 10	2457	16.89
High 11	2462	16.81
High 12	2467	5.14
High 13	2472	4.07

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 1	2412	16.86
Low 2	2417	17.06

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Mid 6	2437	17.07

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 10	2457	16.96
High 11	2462	16.97
High 12	2467	5.04
High 13	2472	4.08

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 1	2412	14.70
Low 2	2417	14.58

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Mid 6	2437	14.77

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 10	2457	14.55
High 11	2462	14.55
High 12	2467	4.94
High 13	2472	3.64

1TX Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 1	2412	17.79
Mid 6	2437	17.73
High 10	2457	17.81
High 11	2462	16.72
High 12	2467	13.84
High 13	2472	9.76

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 1	2412	16.87
Low 2	2417	16.72
Mid 6	2437	16.73

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 10	2457	16.73
High 11	2462	16.70
High 12	2467	5.03
High 13	2472	4.03

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 1	2412	16.94
Low 2	2417	16.83

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Mid 6	2437	16.94

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 10	2457	16.84
High 11	2462	16.84
High 12	2467	5.24
High 13	2472	3.93

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 1	2412	12.96
Low 2	2417	12.88

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Mid 6	2437	13.05

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 10	2457	12.89
High 11	2462	12.72
High 12	2467	5.03
High 13	2472	3.69

9.7.1. 802.11ax HE20 MODE 2TX

2TX Antenna A + Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 1	2412	15.75	15.92	18.85
Low 2	2417	16.68	16.75	19.73
Mid 6	2437	16.85	16.82	19.85
High 10	2457	16.71	16.83	19.78
High 11	2462	15.70	15.67	18.70
High 12	2467	12.64	12.84	15.75
High 13	2472	8.63	8.63	11.64

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 1	2412	16.72	16.79	19.77
Low 2	2417	16.83	16.71	19.78
Mid 6	2437	16.70	16.75	19.74

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 10	2457	16.81	16.77	19.80
High 11	2462	16.83	16.71	19.78
High 12	2467	4.93	5.10	8.03
High 13	2472	2.86	3.50	6.20

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 1	2412	14.75	15.20	17.99
Low 2	2417	14.57	15.02	17.81

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 38

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Mid 6	2437	14.76	15.14	17.96

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 10	2457	14.53	14.99	17.78
High 11	2462	14.53	14.90	17.73
High 12	2467	4.85	4.92	7.90
High 13	2472	2.94	3.51	6.24

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 1	2412	11.89	12.00	14.96
Low 2	2417	11.77	11.92	14.86

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 4

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Mid 6	2437	11.71	11.80	14.77

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 10	2457	12.01	12.15	15.09
High 11	2462	12.10	12.03	15.08
High 12	2467	4.84	4.81	7.84
High 13	2472	4.11	3.99	7.06

9.7.2. 802.11ax HE40 MODE 1TX

1TX Antenna A OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 3	2422	16.67
Low 4	2427	16.70
Mid 6	2437	16.64
High 8	2447	16.64
High 9	2452	16.73
High 10	2457	16.94
High 11	2462	16.98

1TX Antenna A OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 3	2422	15.88
Low 4	2427	16.71
Mid 6	2437	16.88

1TX Antenna A OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)
High 9	2452	16.78
High 10	2457	14.31
High 11	2462	12.36

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 3	2422	16.78
Low 4	2427	16.95

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Mid 6	2437	17.02

1TX Antenna A OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 8	2447	16.98
High 9	2452	17.03
High 10	2457	5.29
High 11	2462	4.43

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 3	2422	17.02
Low 4	2427	17.12

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Mid 6	2437	17.08

1TX Antenna A OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 8	2447	17.26
High 9	2452	17.23
High 10	2457	5.46
High 11	2462	4.29

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Low 3	2422	14.77
Low 4	2427	14.67

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
Mid 6	2437	14.79

1TX Antenna A OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)
High 8	2447	14.94
High 9	2452	14.91
High 10	2457	5.28
High 11	2462	4.15

1TX Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 3	2422	16.58
Low 4	2427	16.59
Mid 6	2437	16.56
High 8	2447	16.54
High 9	2452	16.66
High 10	2457	16.80
High 11	2462	16.80

1TX Antenna B OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 3	2422	16.01
Low 4	2427	16.75
Mid 6	2437	16.81

1TX Antenna B OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT B Power (dBm)
High 9	2452	16.76
High 10	2457	14.36
High 11	2462	11.91

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 3	2422	16.84
Low 4	2427	16.73

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Mid 6	2437	16.83

1TX Antenna B OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 8	2447	16.86
High 9	2452	16.82
High 10	2457	5.12
High 11	2462	3.94

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 3	2422	16.19
Low 4	2427	16.08

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Mid 6	2437	16.03

1TX Antenna B OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 8	2447	16.32
High 9	2452	16.16
High 10	2457	5.10
High 11	2462	3.99

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Low 3	2422	13.13
Low 4	2427	12.97

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
Mid 6	2437	12.95

1TX Antenna B OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT B Power (dBm)
High 8	2447	13.27
High 9	2452	13.05
High 10	2457	5.05
High 11	2462	4.04

9.7.1. 802.11ax HE40 MODE 2TX

2TX Antenna A + Antenna B OFDMA MODE: SU, Single User

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 3	2422	16.58	16.62	19.61
Low 4	2427	16.50	16.61	19.57
Mid 6	2437	16.52	16.59	19.57
High 8	2447	16.55	16.66	19.62
High 9	2452	16.63	16.72	19.69
High 10	2457	16.81	16.92	19.88
High 11	2462	16.91	16.90	19.92

2TX Antenna A + Antenna B OFDMA MODE: 242-Tones, RU Index 61

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 3	2422	15.90	15.85	18.89
Low 4	2427	16.72	16.75	19.75
Mid 6	2437	16.86	16.77	19.83

2TX Antenna A + Antenna B OFDMA MODE: 242-Tones, RU Index 62

Test Engineer:	84445/40882
Test Date:	2020-04-15

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 8	2447	16.74	16.85	19.81
High 9	2452	15.75	15.75	18.76
High 10	2457	12.72	12.76	15.75
High 11	2462	8.71	8.67	11.70

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 53

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 3	2422	16.72	16.84	19.79
Low 4	2427	16.91	16.68	19.81

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 54

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Mid 6	2437	16.89	16.85	19.88

2TX Antenna A + Antenna B OFDMA MODE: 106-Tones, RU Index 56

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 8	2447	16.93	16.85	19.90
High 9	2452	16.93	16.77	19.86
High 10	2457	5.04	5.08	8.07
High 11	2462	4.02	4.21	7.13

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 37

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 3	2422	14.92	15.18	18.06
Low 4	2427	14.81	14.97	17.90

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 40

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Mid 6	2437	14.90	15.03	17.98

2TX Antenna A + Antenna B OFDMA MODE: 52-Tones, RU Index 44

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 8	2447	15.04	15.29	18.18
High 9	2452	14.99	15.15	18.08
High 10	2457	4.90	4.95	7.94
High 11	2462	4.04	4.08	7.07

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 0

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Low 3	2422	11.75	12.10	14.94
Low 4	2427	11.67	11.88	14.79

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 8

Test Engineer:	84445/40882
Test Date:	2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
Mid 6	2437	11.72	11.83	14.79

2TX Antenna A + Antenna B OFDMA MODE: 26-Tones, RU Index 17

Test Engineer:	84445/40882
Test Date:	2021-04-15 and 2021-06-09

Channel	Frequency (MHz)	ANT A Power (dBm)	ANT B Power (dBm)	Total Power (dBm)
High 8	2447	11.98	12.21	15.11
High 9	2452	12.00	12.12	15.07
High 10	2457	4.92	4.93	7.94
High 11	2462	4.14	4.06	7.11

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 30MHz, below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

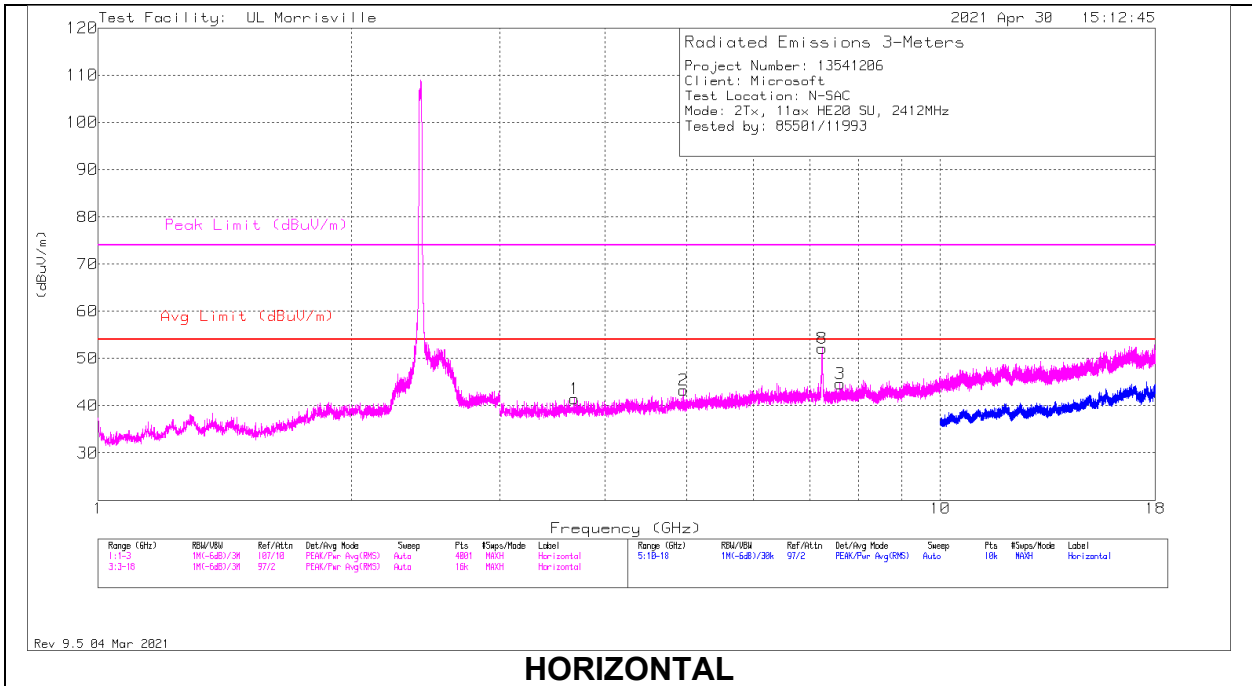
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 2.4GHz BAND

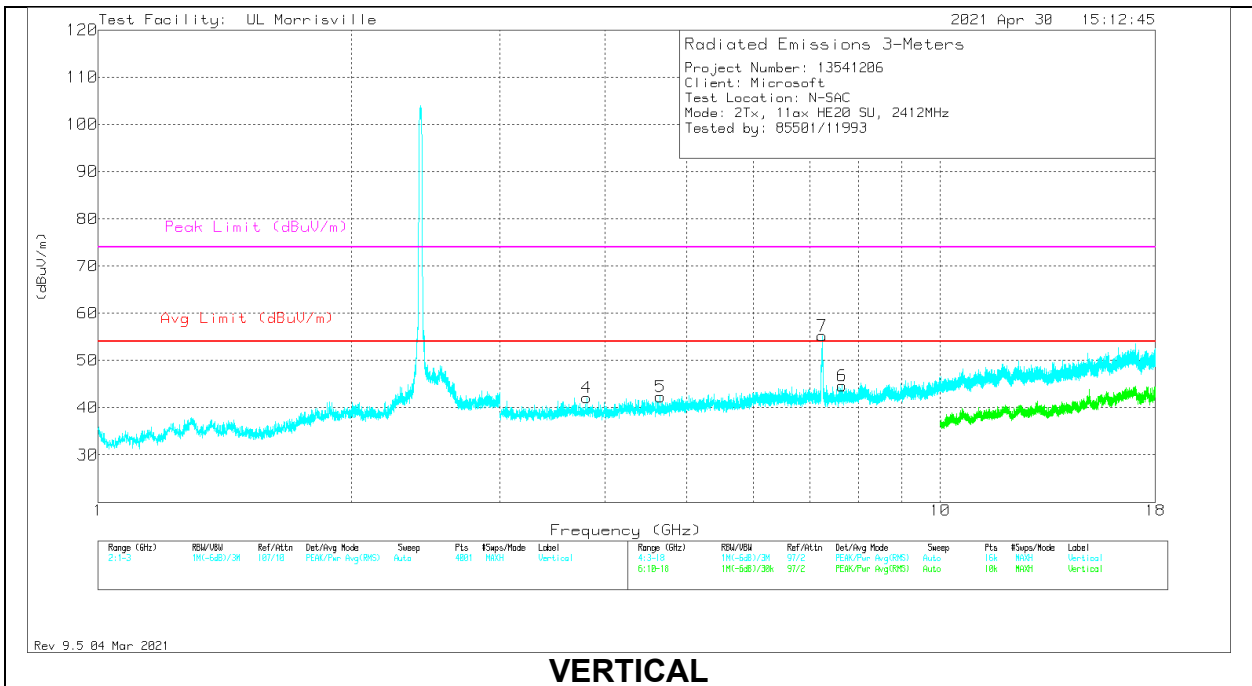
2TX Antenna A + Antenna B OFDMA MODE: SU, Single User

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL 1 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0087 (db/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.67781	39.93	Pk	33.3	-31.7	0	41.53	54	-12.47	74	-32.47	0-360	200	H
2	*** 4.95563	41.32	Pk	34.3	-32.3	0	43.32	54	-10.68	74	-30.68	0-360	101	H
3	*** 7.60031	38.26	Pk	35.8	-29.4	0	44.66	54	-9.34	74	-29.34	0-360	101	H
4	*** 3.80156	41.63	Pk	33.4	-32.9	0	42.13	54	-11.87	74	-31.87	0-360	101	V
5	*** 4.64813	41.07	Pk	33.9	-32.6	0	42.37	54	-11.63	74	-31.63	0-360	101	V
6	*** 7.64438	38	Pk	35.9	-29.2	0	44.7	54	-9.3	74	-29.3	0-360	101	V
8	7.23938	46.07	Pk	35.7	-29.6	0	52.17	-	-	-	-	0-360	101	H
7	7.23938	49.12	Pk	35.7	-29.6	0	55.22	-	-	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector