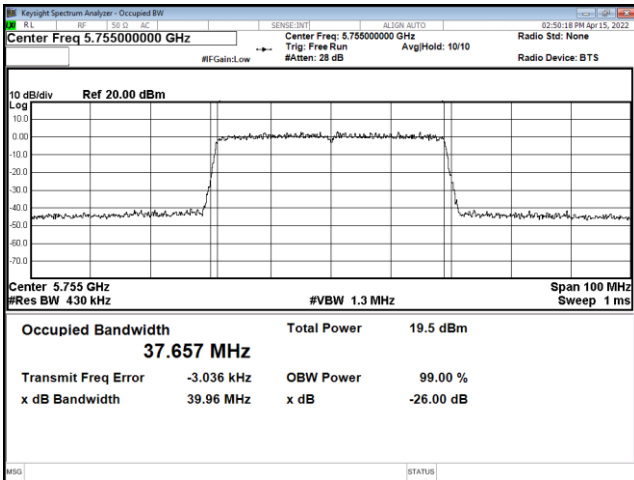
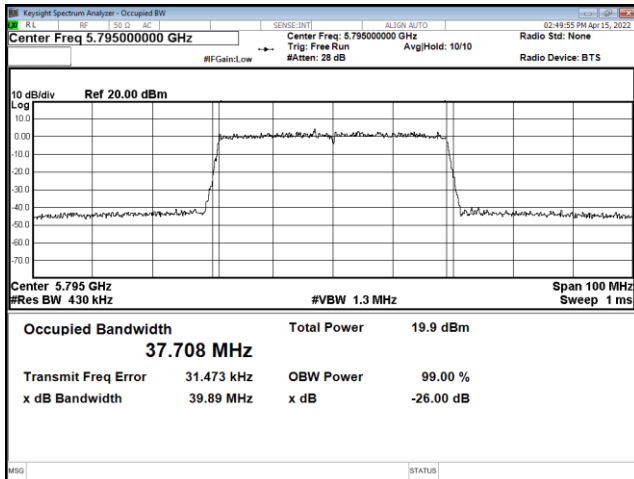




Modulation Type: 802.11 ax HE40 (14.6Mbps)
CH151

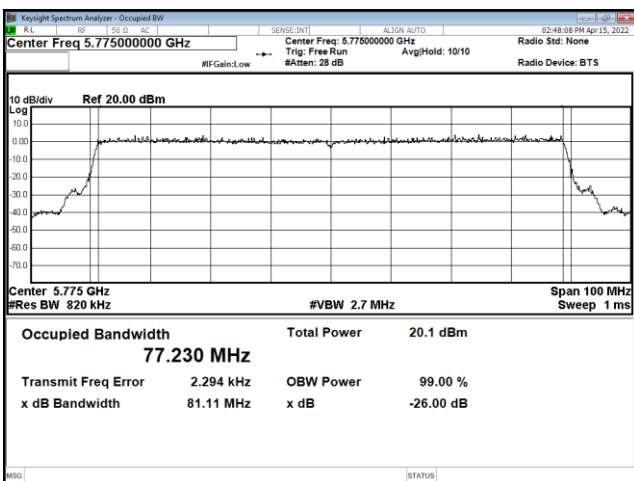


CH159



Modulation Type: 802.11 ax HE80 (30.6Mbps)

CH155





9. 26dB Bandwidth & 99% Occupied Bandwidth

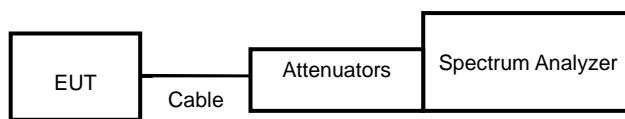
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 v02r01 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout





9.4. Test Result and Data (26dB Bandwidth)

In the 5.2G Band
MIMO

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	18.53	18.42
	44	5220	18.36	18.38
	48	5240	18.56	18.4
802.11ac VHT20	36	5180	19.38	19.43
	44	5220	19.47	19.41
	48	5240	19.48	19.54
802.11ac VHT40	38	5190	38.84	38.64
	46	5230	39.01	38.74
802.11ac VHT80	42	5210	85.44	85.76
802.11ax HE20	36	5180	20.25	20.35
	44	5220	20.40	20.25
	48	5240	20.30	20.10
802.11ax HE40	38	5190	39.45	39.60
	46	5230	39.79	39.62
802.11ax HE80	42	5210	80.72	80.87



9.5. Test Result and Data (99% Occupied Bandwidth)
In the 5.2G Band
MIMO

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	16.35	16.36
	44	5220	16.37	16.36
	48	5240	16.38	16.37
802.11ac VHT20	36	5180	17.57	17.56
	44	5220	17.54	17.56
	48	5240	17.56	17.53
802.11ac VHT40	38	5190	36.11	36.10
	46	5230	36.15	36.12
802.11ac VHT80	42	5210	76.16	76.32
802.11ax HE20	36	5180	18.91	18.92
	44	5220	18.92	18.94
	48	5240	18.92	18.89
802.11ax HE40	38	5190	37.68	37.69
	46	5230	37.64	37.64
802.11ax HE80	42	5210	77.34	77.27

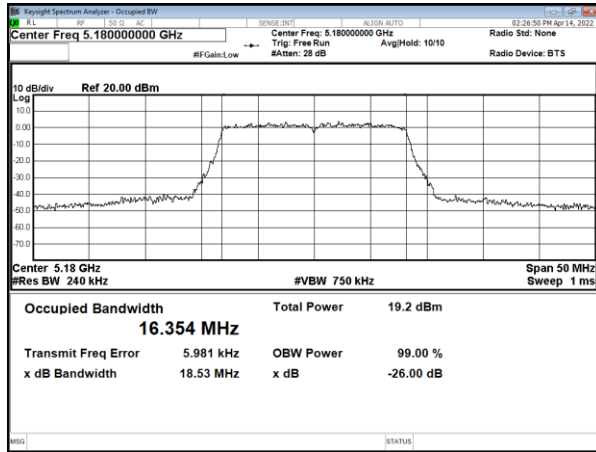


MIMO (ANT A)

26dB Bandwidth & 99% Occupied Bandwidth, UNII-1

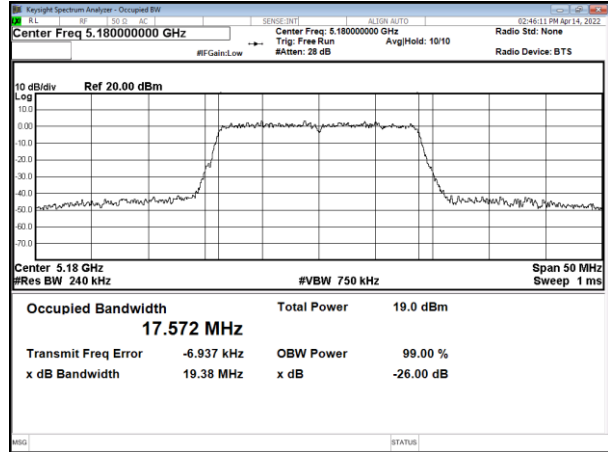
Modulation Standard: 802.11a (6Mbps)

CH36

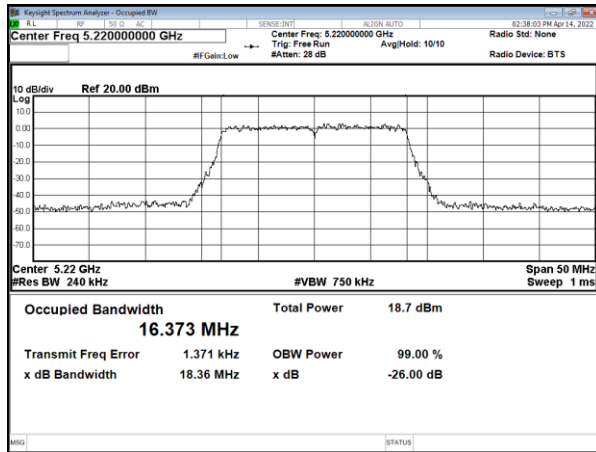


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

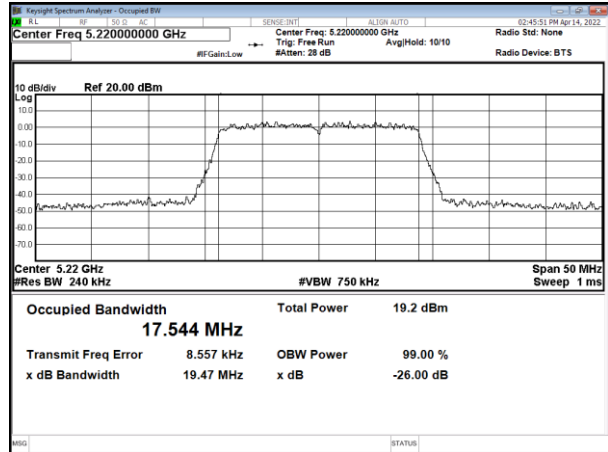
CH36



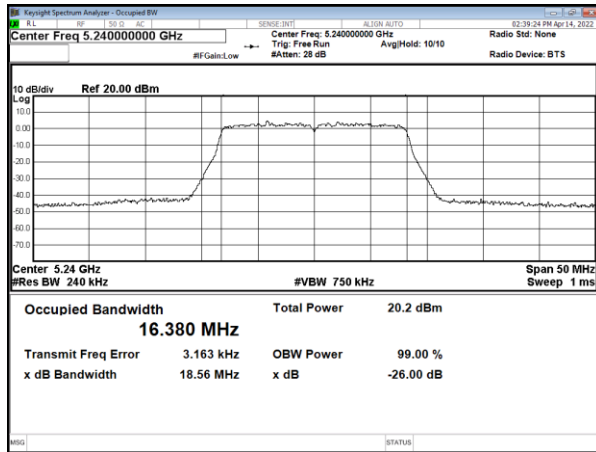
CH44



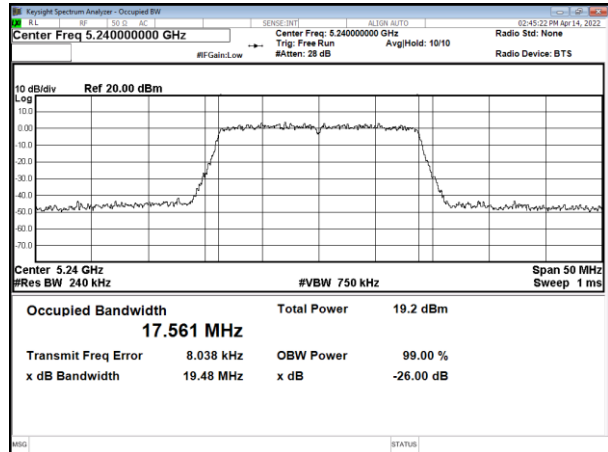
CH44



CH48



CH48

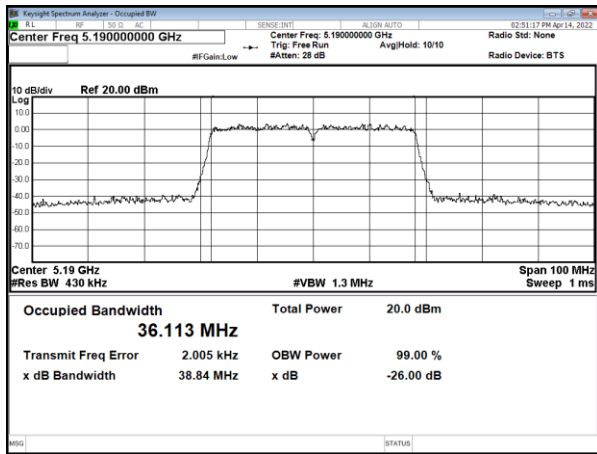




26dB Bandwidth &99% Occupied Bandwidth, UNII-1

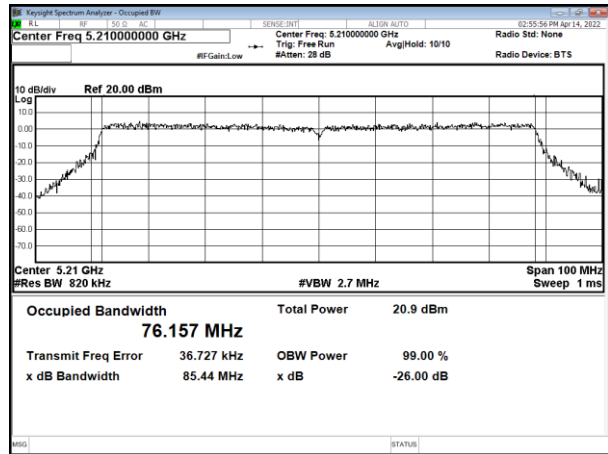
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH38

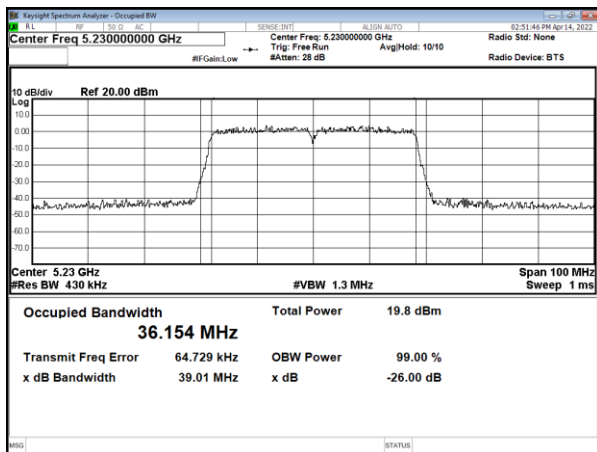


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42



CH46

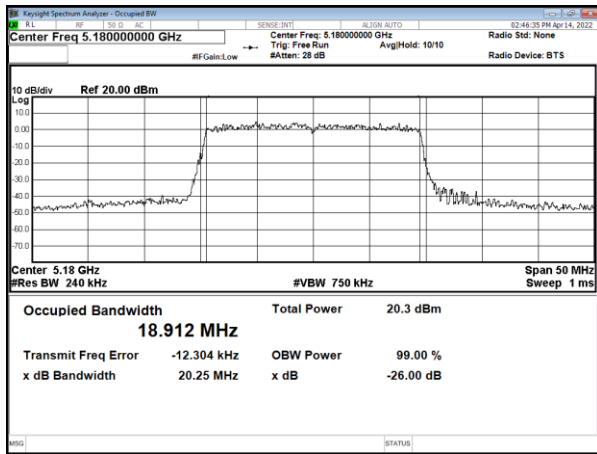




26dB Bandwidth &99% Occupied Bandwidth, UNII-1

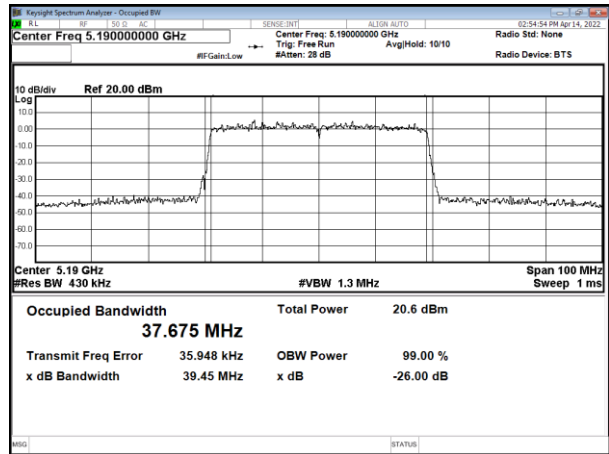
Modulation Standard: 802.11 ax HE20 (7.3Mbps)

CH36

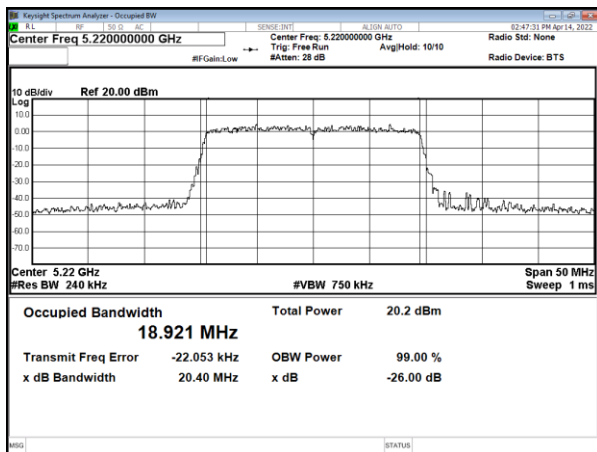


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

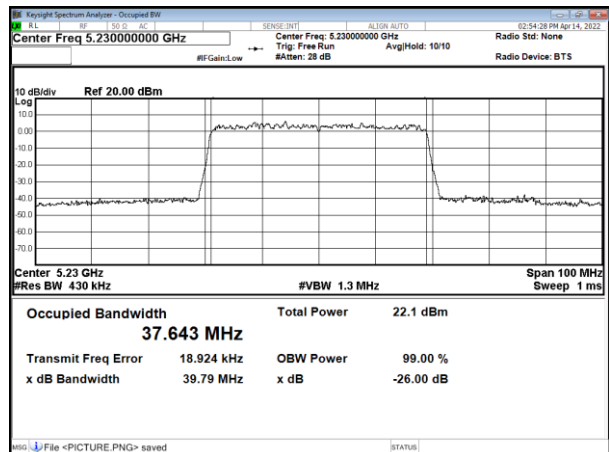
CH38



CH44

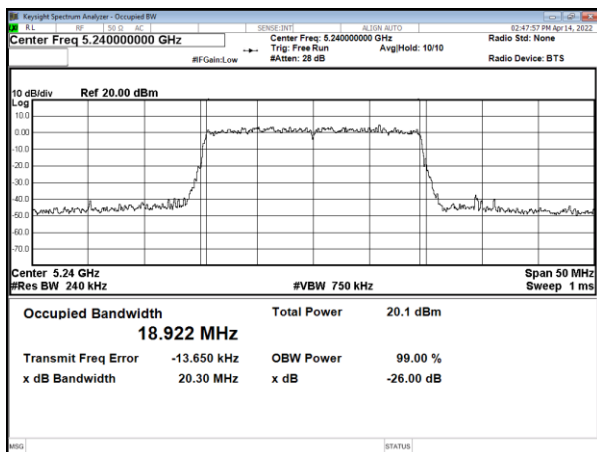


CH46

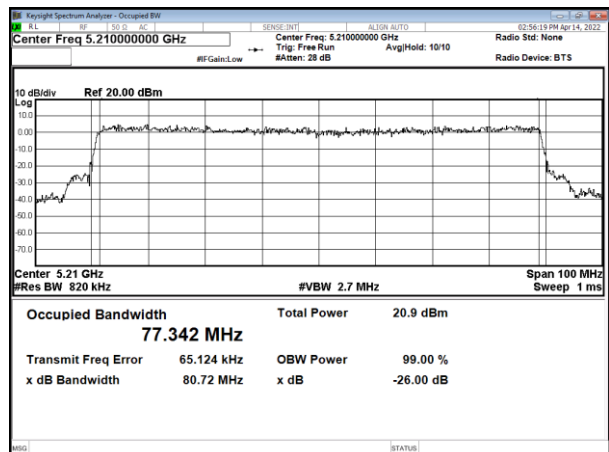


Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH48



CH42



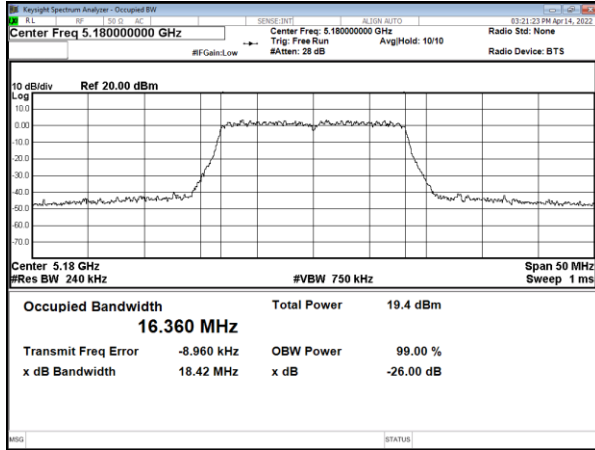


MIMO (ANT B)

26dB Bandwidth &99% Occupied Bandwidth, UNII-1

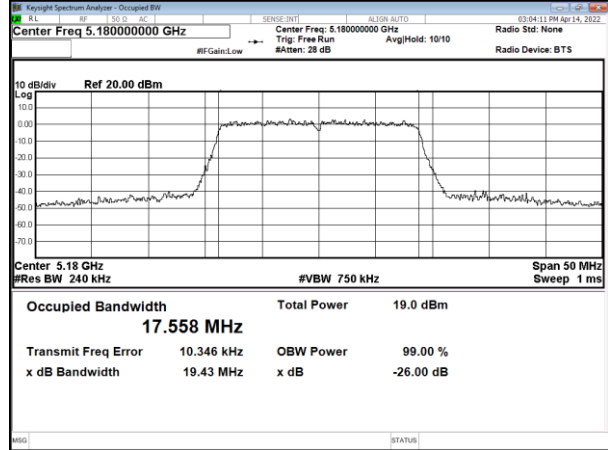
Modulation Standard: 802.11a (6Mbps)

CH36

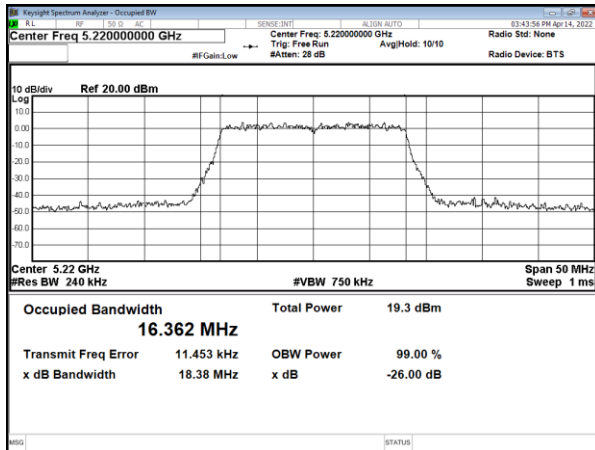


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

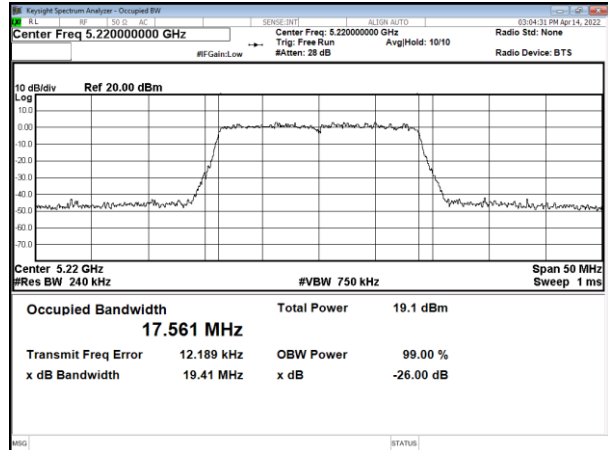
CH36



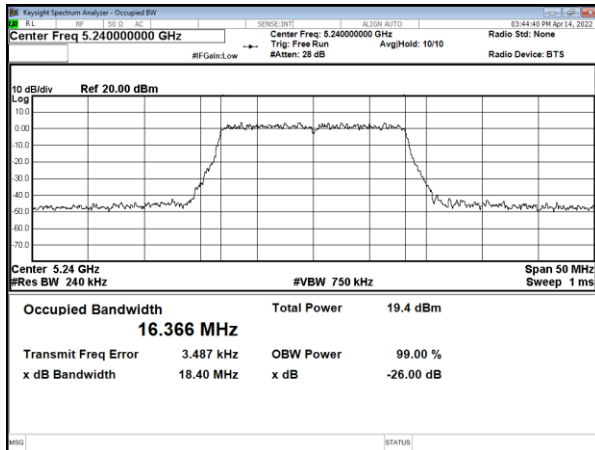
CH44



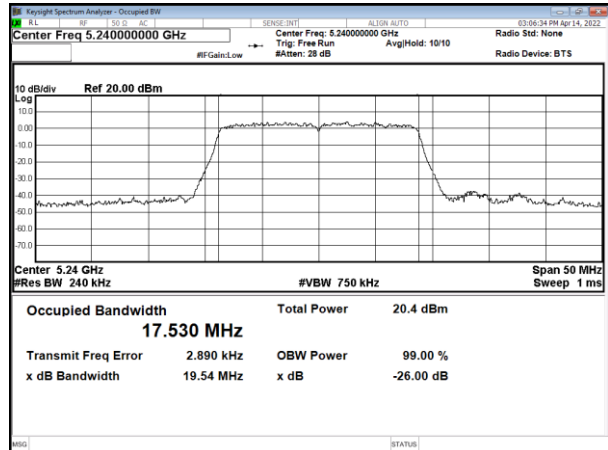
CH44



CH48



CH48

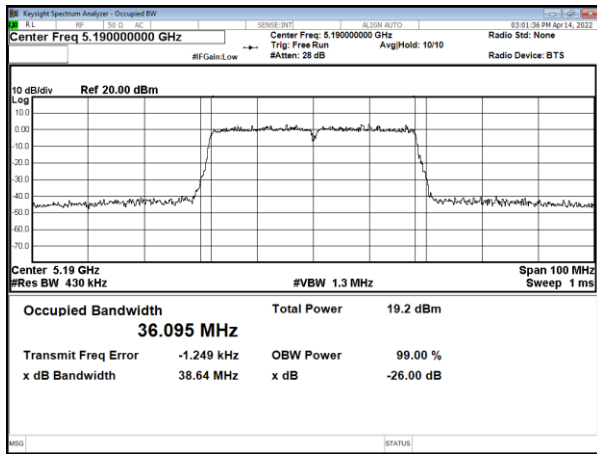




26dB Bandwidth &99% Occupied Bandwidth, UNII-1

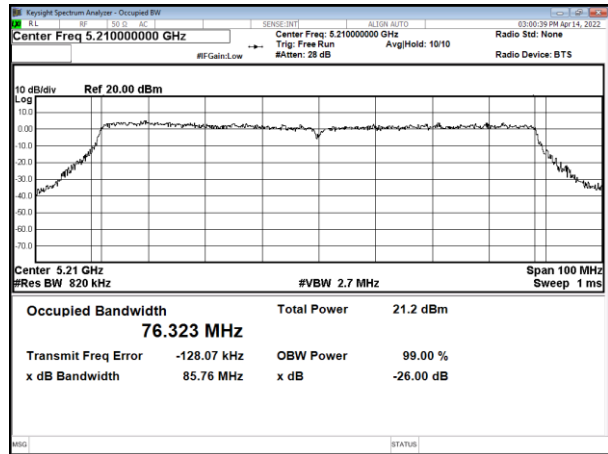
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH38

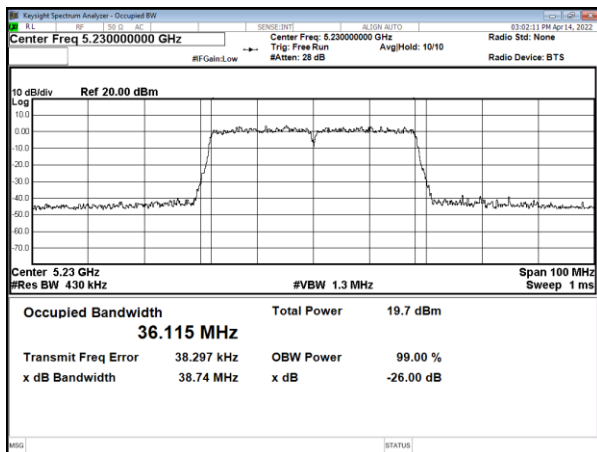


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42



CH46





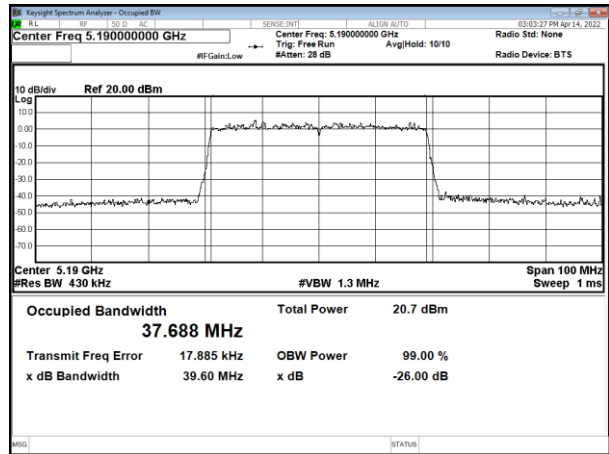
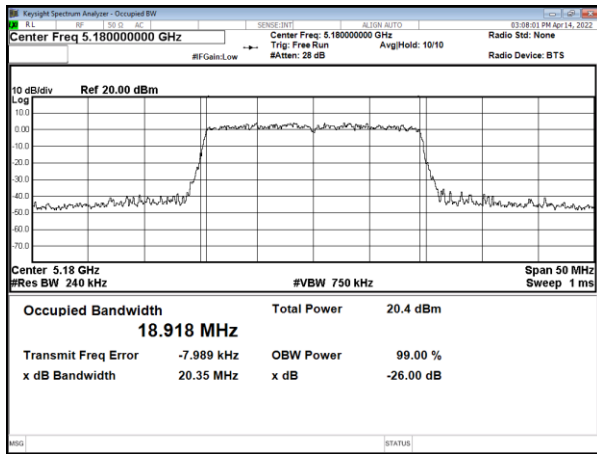
26dB Bandwidth &99% Occupied Bandwidth, UNII-1

Modulation Standard: 802.11 ax HE20 (7.3Mbps)

Modulation Standard: 802.11 ax HE40 (14.6Mbps)

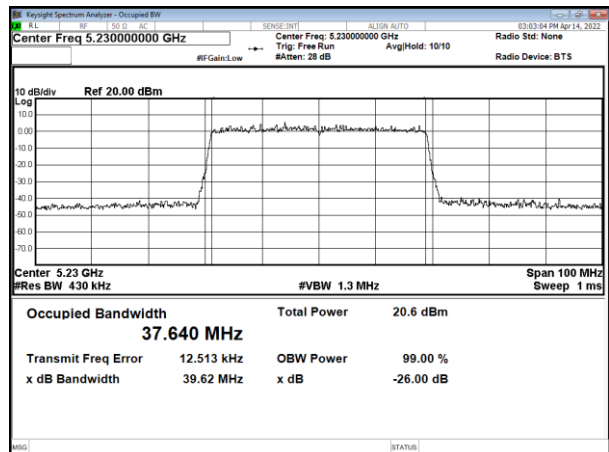
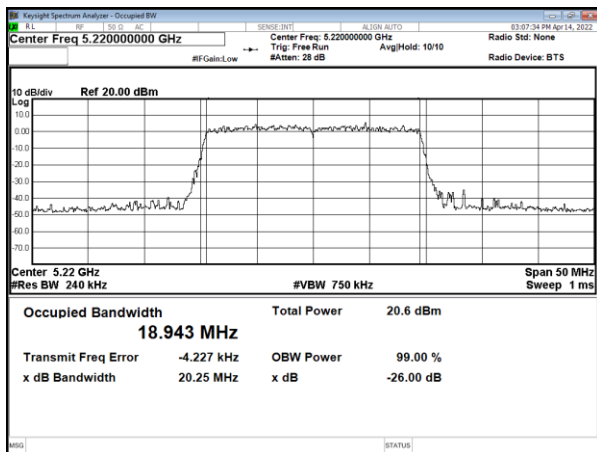
CH36

CH38



CH44

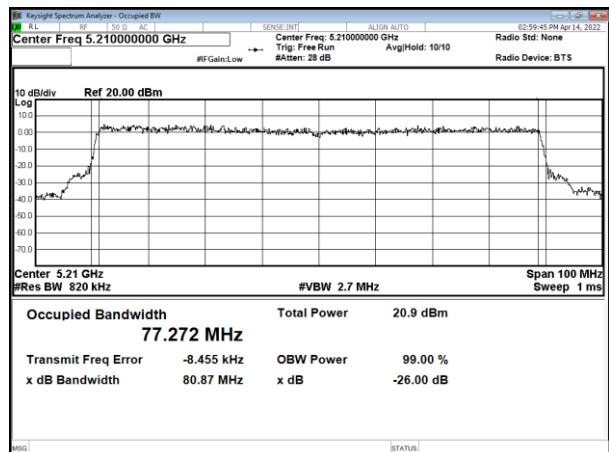
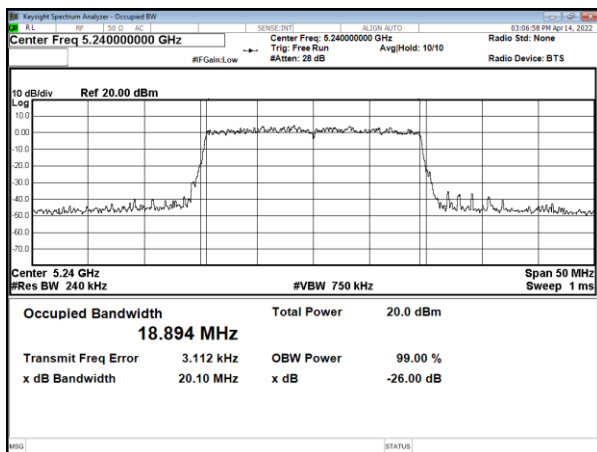
CH46



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH48

CH42





10. Average Power

10.1. Test Limit

Output Power:

Frequency Band	Limit	
<input checked="" type="checkbox"/> 5.15~5.25GHz		
Operating Mode		
<input type="checkbox"/>	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
<input type="checkbox"/>	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/>	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
<input checked="" type="checkbox"/>	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



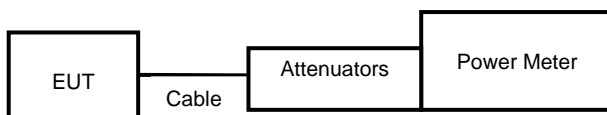
Frequency Band	Limit
<input type="checkbox"/> 5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
<input type="checkbox"/> 5.470-5.725 GHz	
<input checked="" type="checkbox"/> 5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

10.2. Test Procedure

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3. Test Setup Layout





10.4. Test Result and Data In the 5.2G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B	A+B	A+B	
11a	6 Mbps	16	36	5180	9.32	8.86	12.11	16.242	24.00
11a	6 Mbps	16	44	5220	8.68	8.98	11.84	15.286	24.00
11a	6 Mbps	16	48	5240	8.56	8.81	11.70	14.781	24.00
11n HT20	MCS 0	16	36	5180	8.02	7.39	10.73	11.821	24.00
11n HT20	MCS 0	16	44	5220	8.48	8.42	11.46	13.997	24.00
11n HT20	MCS 0	16	48	5240	8.24	8.45	11.36	13.666	24.00
11n HT40	MCS 0	18	38	5190	9.11	8.32	11.74	14.939	24.00
11n HT40	MCS 0	18	46	5230	8.35	8.54	11.46	13.984	24.00
11ac VHT20	MCS 0	16	36	5180	8.13	7.67	10.92	12.349	24.00
11ac VHT20	MCS 0	16	44	5220	8.90	8.53	11.73	14.891	24.00
11ac VHT20	MCS 0	16	48	5240	8.39	8.77	11.59	14.436	24.00
11ac VHT40	MCS 0	18	38	5190	9.18	8.57	11.90	15.474	24.00
11ac VHT40	MCS 0	18	46	5230	8.53	8.72	11.64	14.576	24.00
11ac VHT80	MCS 0	18	42	5210	6.51	6.67	9.60	9.122	24.00
802.11ax HE20	MCS 0	16	36	5180	7.89	8.12	11.02	12.638	24.00
802.11ax HE20	MCS 0	16	44	5220	7.98	8.11	11.06	12.752	24.00
802.11ax HE20	MCS 0	16	48	5240	7.92	8.31	11.13	12.971	24.00
802.11ax HE40	MCS 0	18	38	5190	8.65	8.62	11.65	14.606	24.00
802.11ax HE40	MCS 0	18	46	5230	7.96	7.91	10.95	12.432	24.00
802.11ax HE80	MCS 0	18	42	5210	6.56	6.23	9.41	8.727	24.00

In the 5.8G Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
					ANT A	ANT B	A+B	A+B	
11a	MCS8	16	149	5745	8.91	8.59	11.76	15.008	30.00
11a	MCS8	16	157	5785	8.86	8.44	11.67	14.674	30.00
11a	MCS8	16	165	5825	9.14	9.68	12.43	17.493	30.00
11n HT20	MCS8	16	149	5745	8.09	8.02	11.07	12.780	30.00
11n HT20	MCS8	16	157	5785	8.38	8.14	11.27	13.403	30.00
11n HT20	MCS8	16	165	5825	9.32	8.37	11.88	15.421	30.00
11n HT40	MCS8	18	151	5755	8.07	8.08	11.09	12.839	30.00
11n HT40	MCS8	18	159	5795	8.25	8.44	11.36	13.666	30.00
11ac VHT20	MCS8	16	149	5745	8.20	8.05	11.14	12.990	30.00
11ac VHT20	MCS8	16	157	5785	8.55	8.20	11.39	13.768	30.00
11ac VHT20	MCS8	16	165	5825	9.37	8.56	11.99	15.828	30.00
11ac VHT40	MCS0	18	151	5755	8.14	8.18	11.17	13.093	30.00
11ac VHT40	MCS0	18	159	5795	8.48	8.77	11.64	14.580	30.00
11ac VHT80	MCS0	18	155	5775	8.00	8.04	11.03	12.678	30.00
802.11ax HE20	MCS0	16	149	5745	7.87	7.74	10.82	12.066	30.00
802.11ax HE20	MCS0	16	157	5785	7.91	7.88	10.91	12.318	30.00
802.11ax HE20	MCS0	16	165	5825	9.00	9.15	12.09	16.166	30.00
802.11ax HE40	MCS8	18	151	5755	7.77	7.99	10.89	12.279	30.00
802.11ax HE40	MCS8	18	159	5795	8.69	8.36	11.54	14.251	30.00
802.11ax HE80	MCS8	18	155	5775	7.51	8.15	10.85	12.168	30.00



11. Maximum Power Spectral Density

11.1. Test Limit

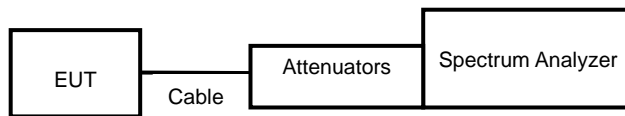
PSD:

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
	Operating Mode	
<input type="checkbox"/>	Outdoor access point	17 dBm/MHz
<input type="checkbox"/>	Indoor access point	17 dBm/MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm/MHz
<input checked="" type="checkbox"/>	client devices	11 dBm/MHz
<input type="checkbox"/>	5.250~5.350 GHz	11 dBm/MHz
<input type="checkbox"/>	5.470~5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/>	5.725~5.85 GHz	30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 v02r01 General UNII Test Procedures New Rules.

11.3. Test Setup Layout



**11.4. Test Result and Data****In the 5.2G Band**

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
			ANT A	ANT B				
11a	36	5180	1.01	0.88	3.95	0.00	3.95	10.12
11a	44	5220	0.96	0.58	3.79	0.00	3.79	10.12
11a	48	5240	1.11	1.13	4.13	0.00	4.13	10.12
11ac VHT20	36	5180	0.55	0.31	3.44	0.00	3.44	10.12
11ac VHT20	44	5220	0.65	0.53	3.60	0.00	3.60	10.12
11ac VHT20	48	5240	0.43	0.39	3.42	0.00	3.42	10.12
11ac VHT40	38	5190	-2.24	-2.64	0.57	0.00	0.57	10.12
11ac VHT40	46	5230	-2.19	-2.04	0.90	0.00	0.90	10.12
11ac VHT80	42	5210	-4.42	-4.66	-1.53	0.00	-1.53	10.12
802.11ax HE20	36	5180	0.32	-0.02	3.16	0.00	3.16	10.12
802.11ax HE20	44	5220	0.37	0.10	3.25	0.00	3.25	10.12
802.11ax HE20	48	5240	0.52	-0.10	3.23	0.00	3.23	10.12
802.11ax HE40	38	5190	-2.40	-2.23	0.70	0.00	0.70	10.12
802.11ax HE40	46	5230	-2.60	-2.61	0.40	0.00	0.40	10.12
802.11ax HE80	42	5210	-4.83	-4.94	-1.87	0.00	-1.87	10.12

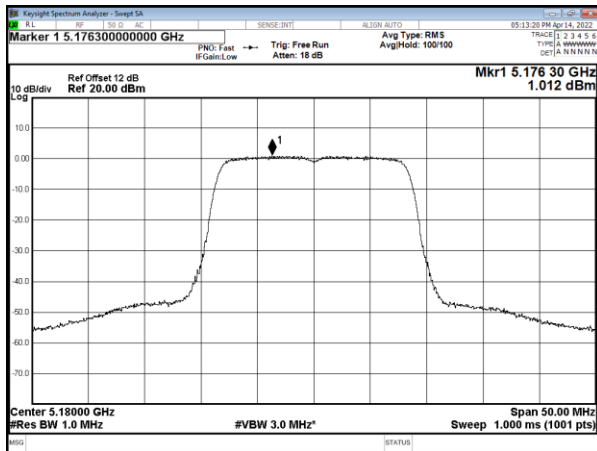
In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500K Hz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
			ANT A	ANT B					
11a	149	5745	0.73	0.61	3.68	0.00	-3.01	0.67	29.14
11a	157	5785	1.40	0.64	4.05	0.00	-3.01	1.04	29.14
11a	165	5825	2.29	1.78	5.05	0.00	-3.01	2.04	29.14
11ac VHT20	149	5745	1.29	0.04	3.72	0.00	-3.01	0.71	29.14
11ac VHT20	157	5785	1.36	0.53	3.97	0.00	-3.01	0.96	29.14
11ac VHT20	165	5825	1.74	1.61	4.68	0.00	-3.01	1.67	29.14
11ac VHT40	151	5755	-2.15	-2.84	0.53	0.00	-3.01	-2.48	29.14
11ac VHT40	159	5795	-1.49	-2.08	1.24	0.00	-3.01	-1.77	29.14
11ac VHT80	155	5775	-4.64	-5.43	-2.01	0.00	-3.01	-5.02	29.14
802.11ax HE20	149	5745	0.58	-0.07	3.27	0.00	-3.01	0.26	29.14
802.11ax HE20	157	5785	1.18	0.27	3.76	0.00	-3.01	0.75	29.14
802.11ax HE20	165	5825	1.57	1.56	4.57	0.00	-3.01	1.56	29.14
802.11ax HE40	151	5755	-2.22	-2.89	0.46	0.00	-3.01	-2.55	29.14
802.11ax HE40	159	5795	-1.48	-2.34	1.12	0.00	-3.01	-1.89	29.14
802.11ax HE80	155	5775	-4.77	-5.52	-2.12	0.00	-3.01	-5.13	29.14

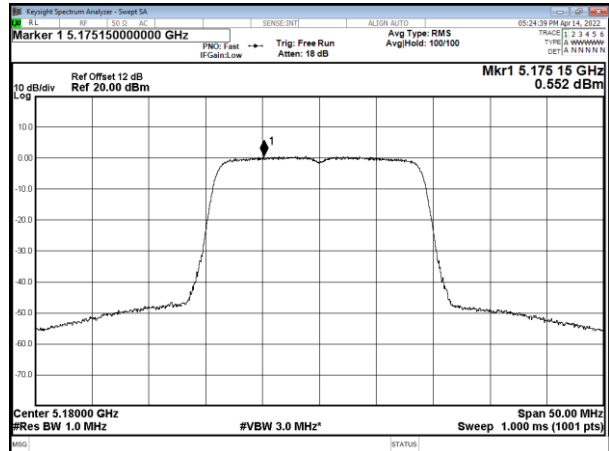


5.2G, UNII-1 MIMO (ANT A)

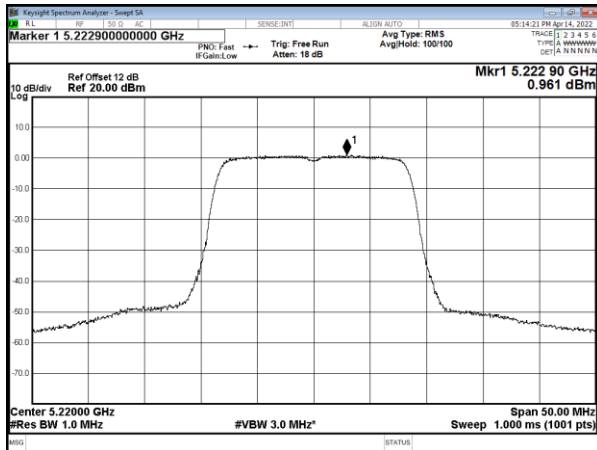
Modulation Standard: 802.11a (6Mbps)
CH36



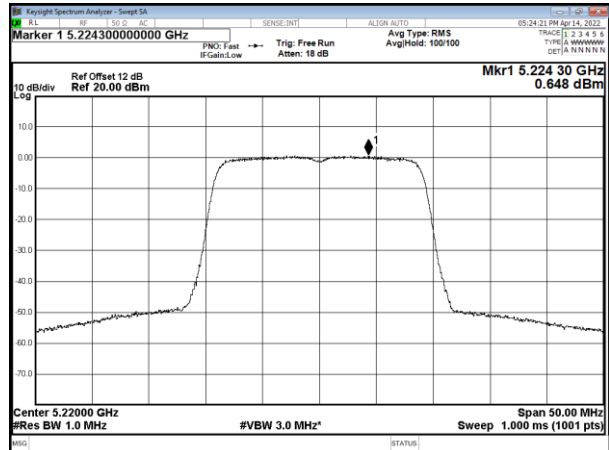
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36



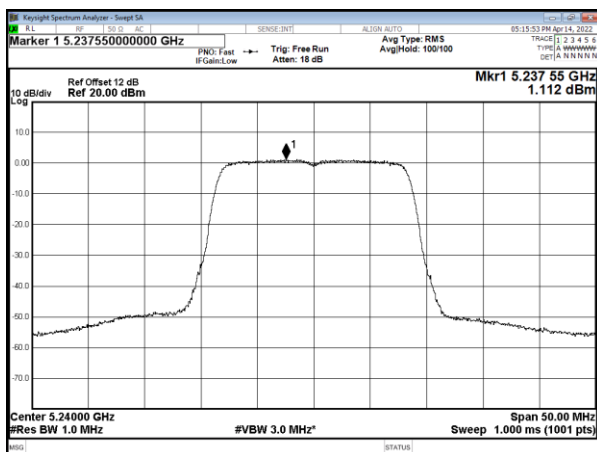
CH44



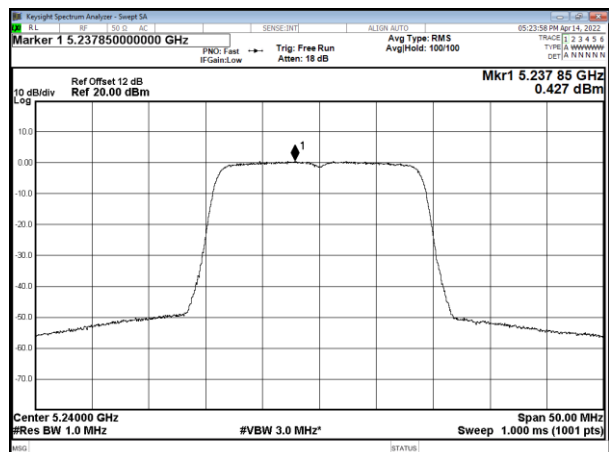
CH44



CH48



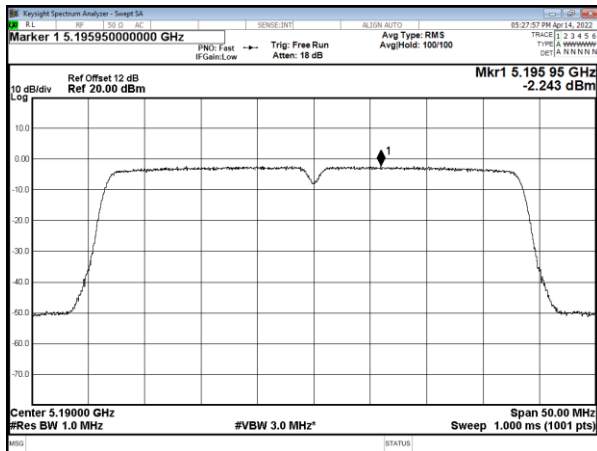
CH48





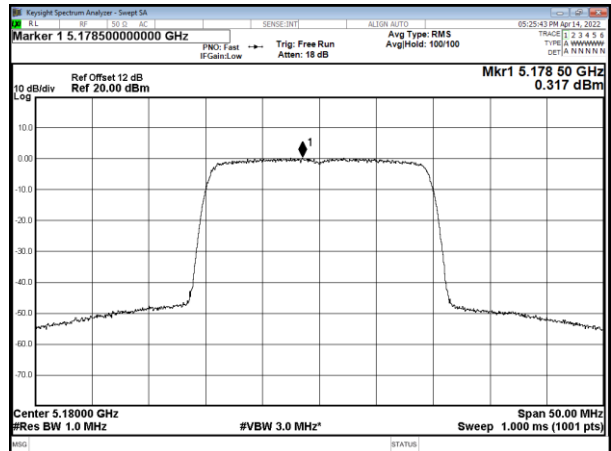
Modulation Standard: 802.11ac VHT40 (13.5Mbps)

CH38

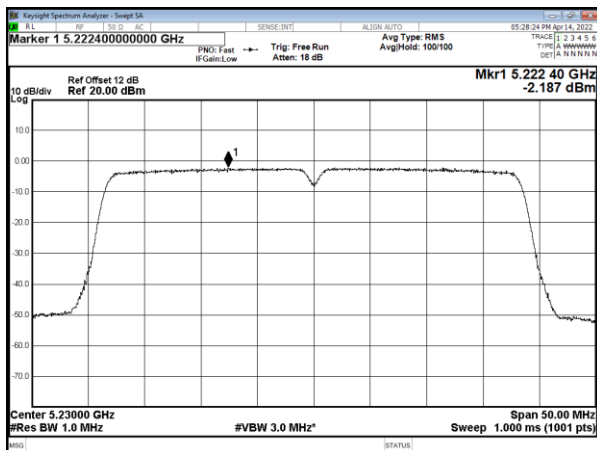


Modulation Standard: 802.11 ax HE20 (7.3Mbps)

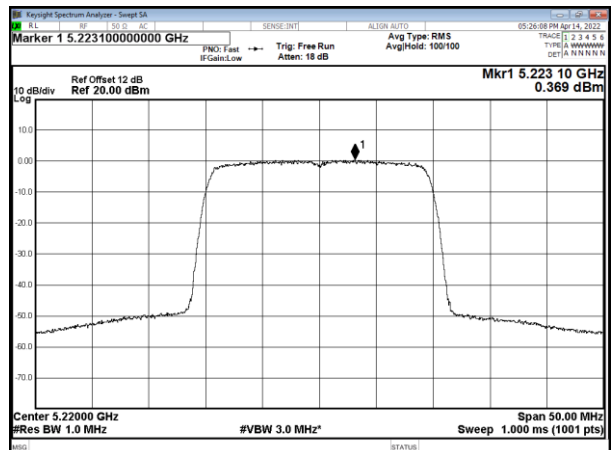
CH36



CH46

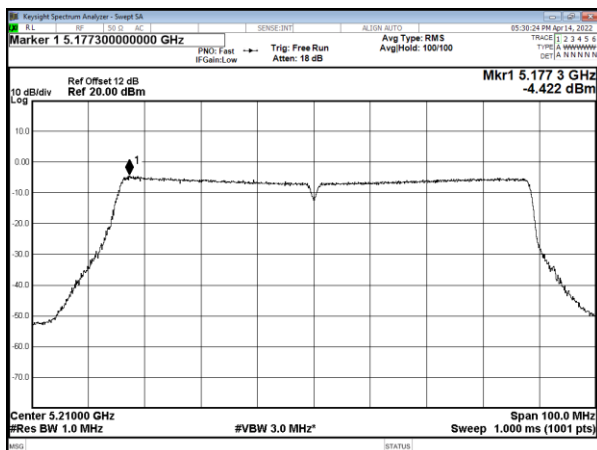


CH44

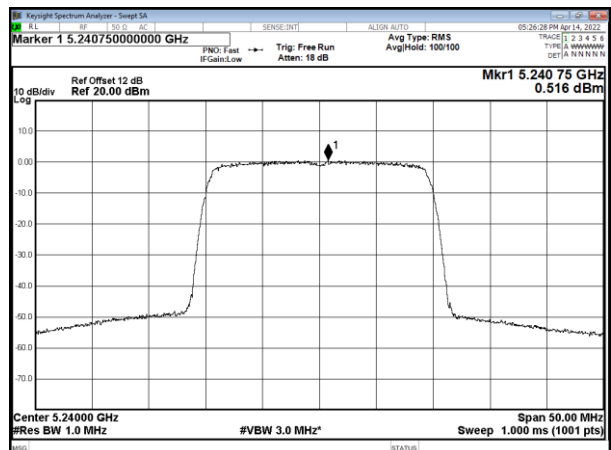


Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42



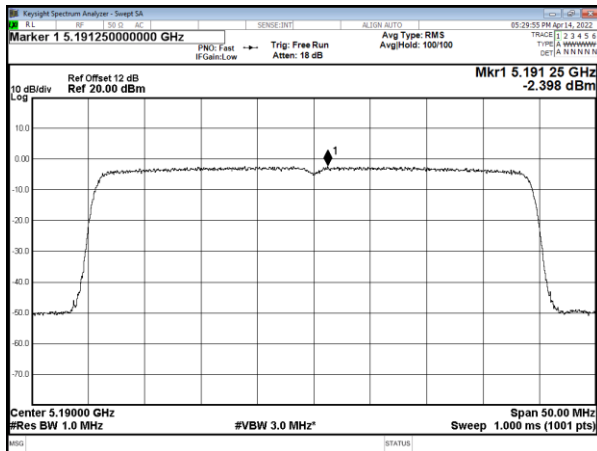
CH48



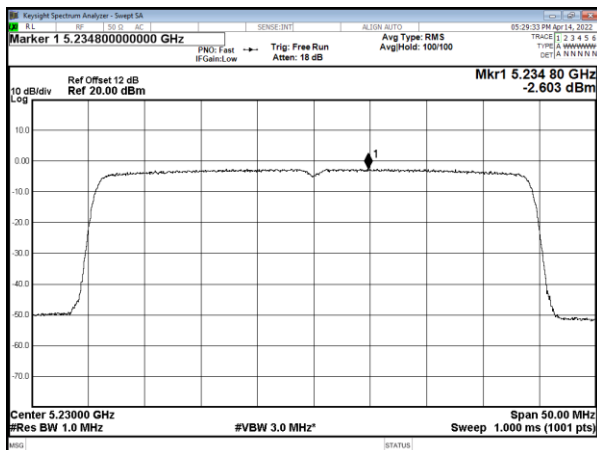


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

CH38

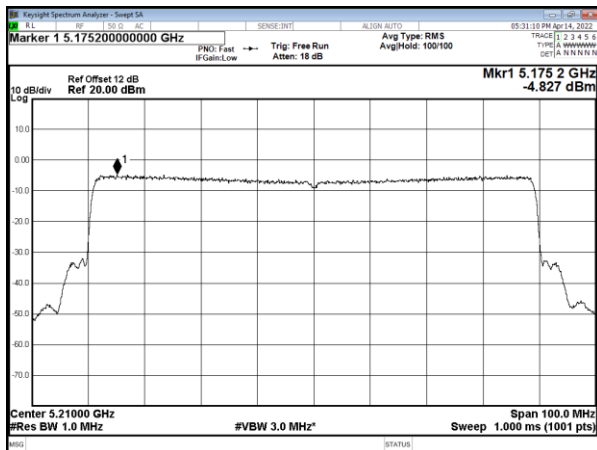


CH46



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

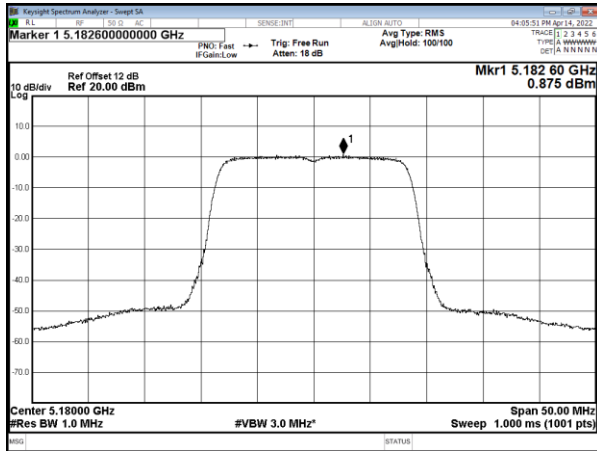
CH42



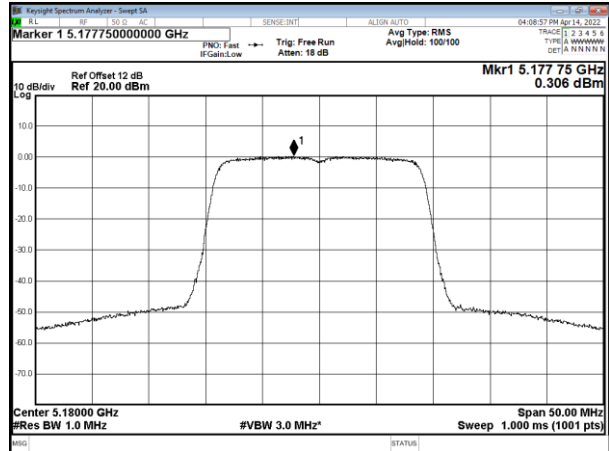


MIMO (ANT B)

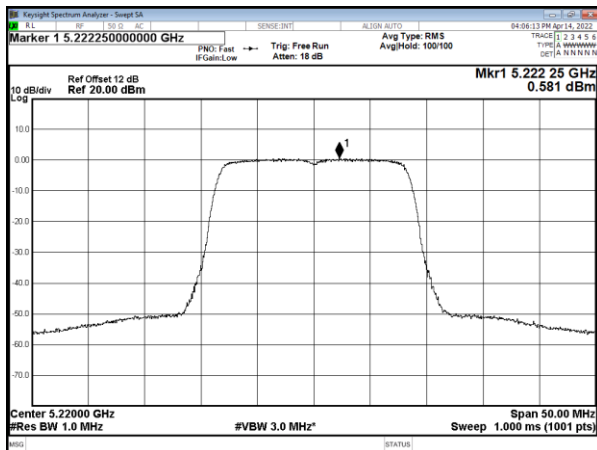
Modulation Standard: 802.11a (6Mbps)
CH36



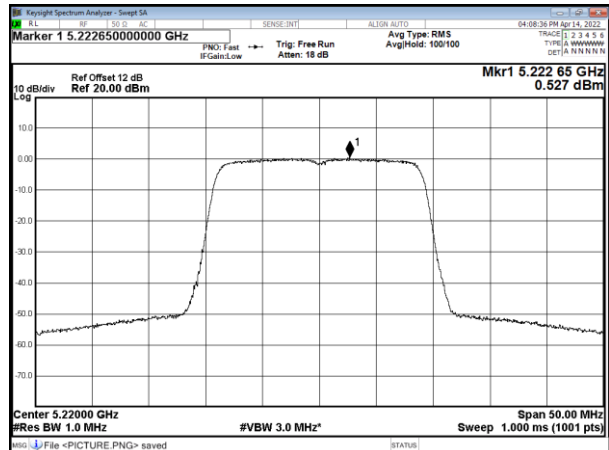
Modulation Standard: 802.11ac VHT20 (6.5Mbps)
CH36



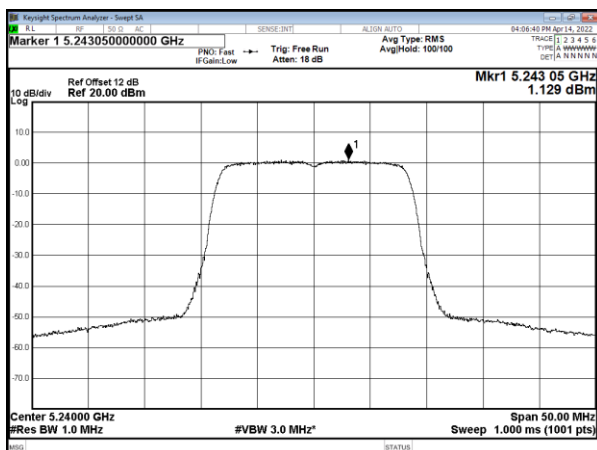
CH44



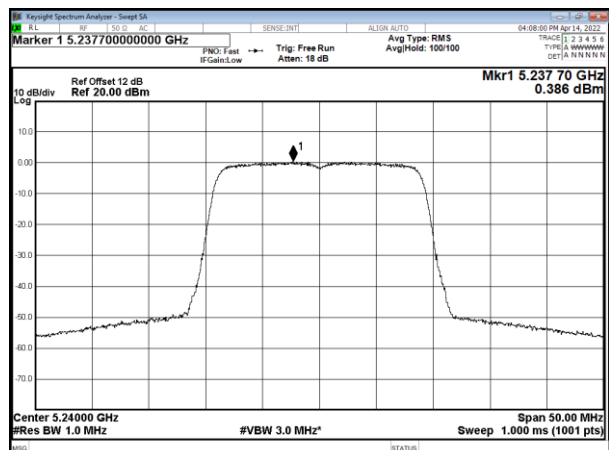
CH44



CH48



CH48



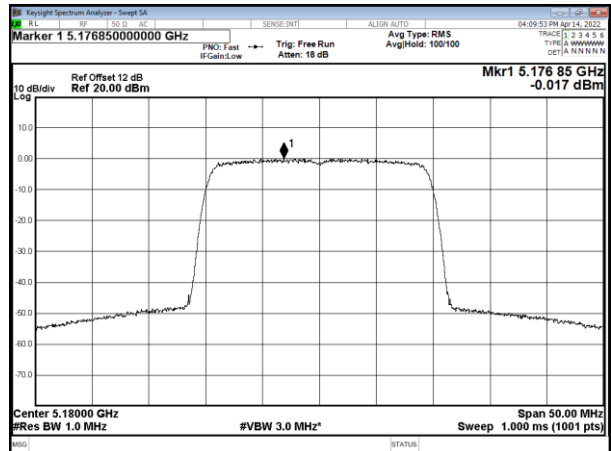
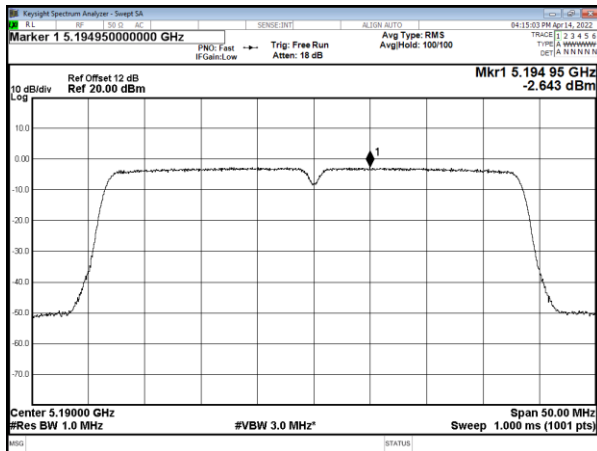


Modulation Standard: 802.11ac VHT40 (13.5Mbps)

Modulation Standard: 802.11 ax HE20 (7.3Mbps)

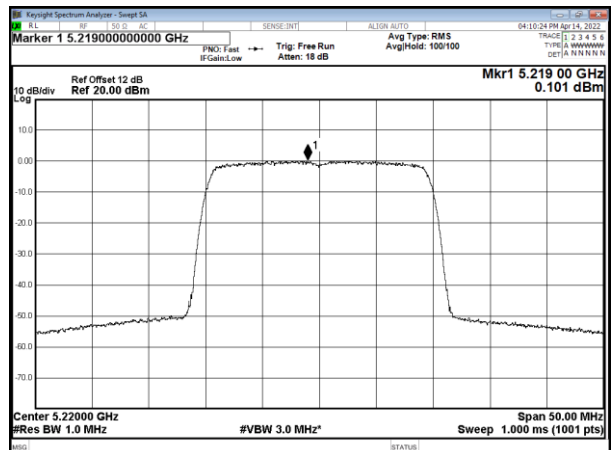
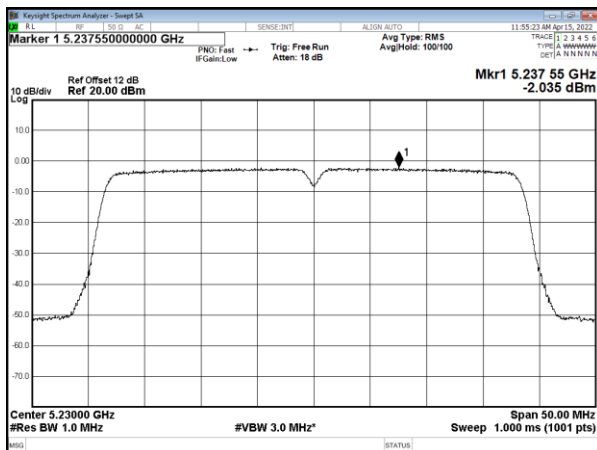
CH38

CH36



CH46

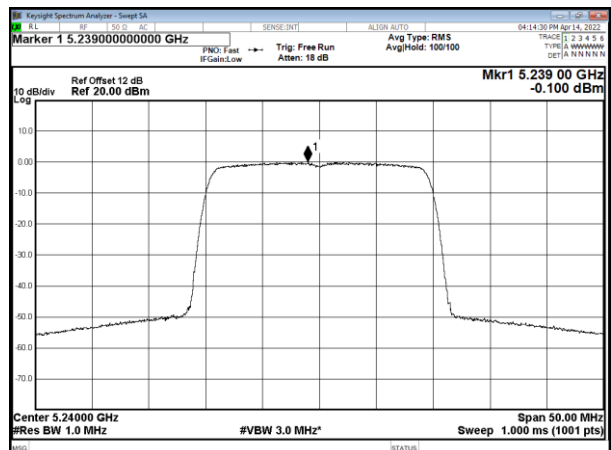
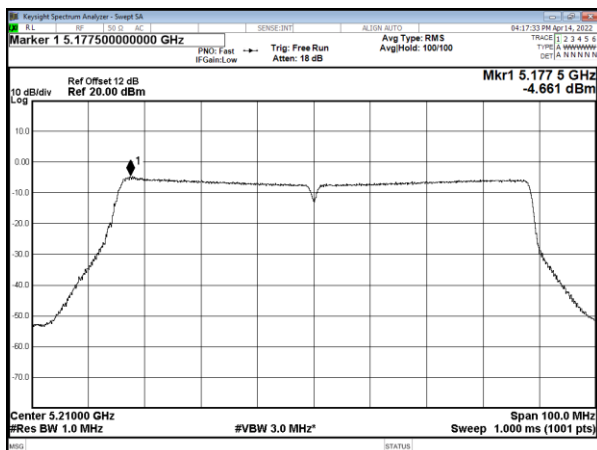
CH44



Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH42

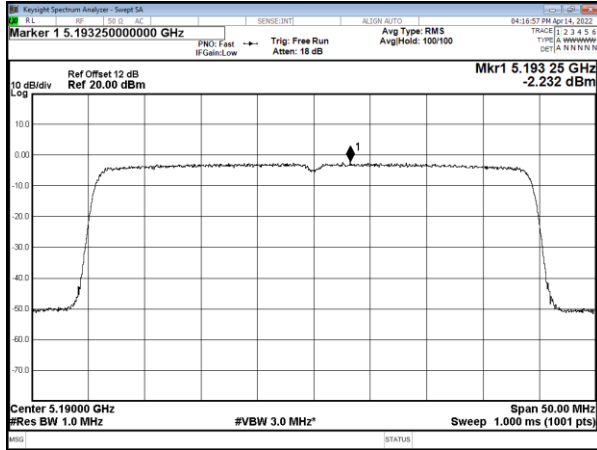
CH48



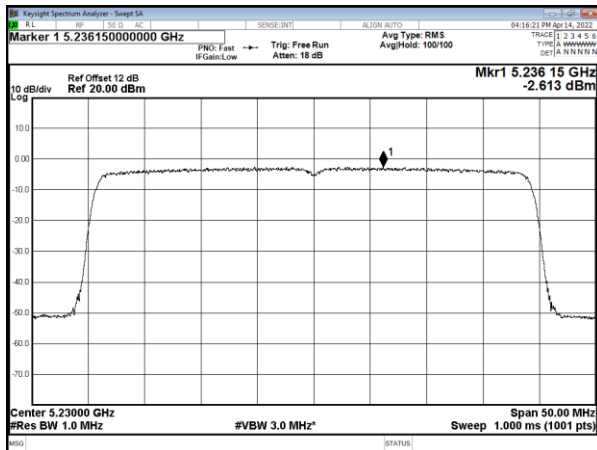


Modulation Standard: 802.11 ax HE40 (14.6Mbps)

CH38

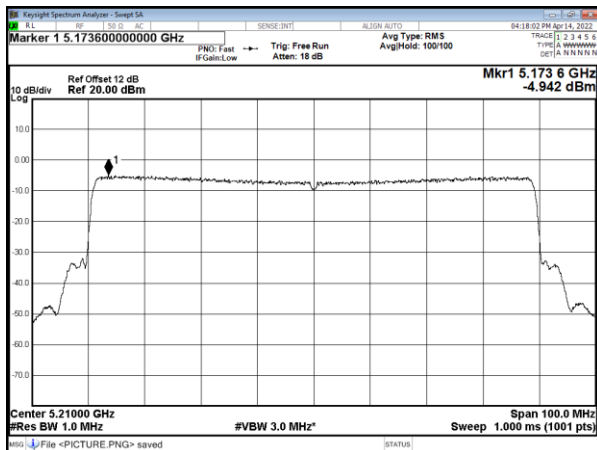


CH46



Modulation Standard: 802.11 ax HE80 (30.6Mbps)

CH42

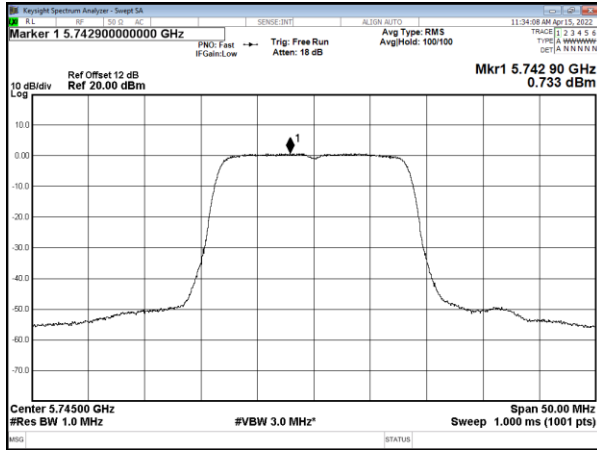




5.8G, UNII-3
MIMO (ANT A)

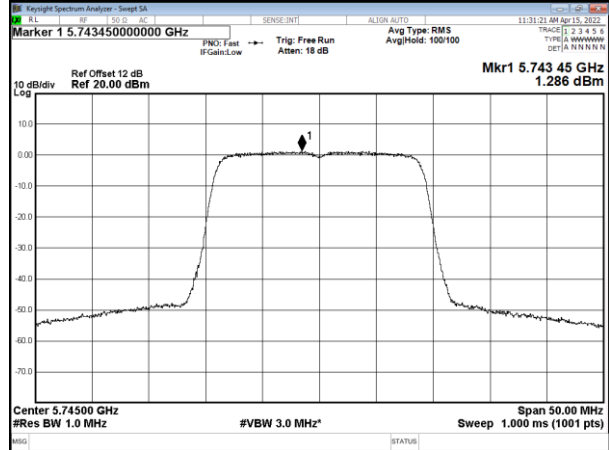
Modulation Standard: 802.11a (6Mbps)

CH149

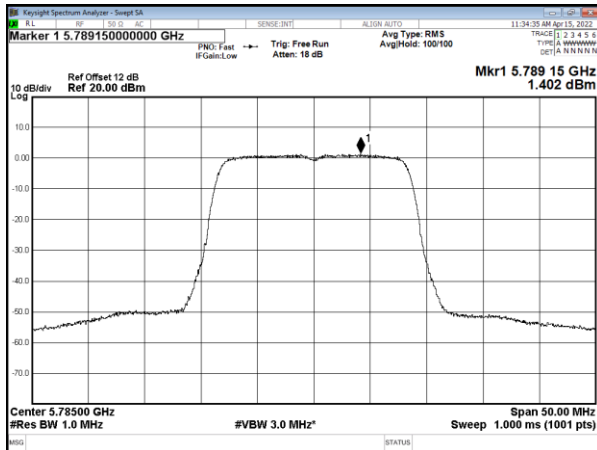


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

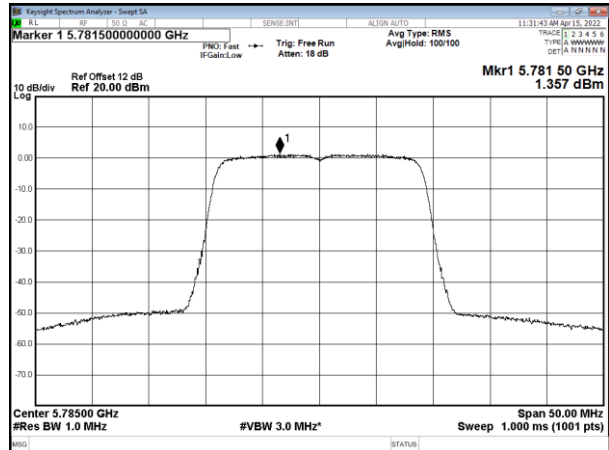
CH149



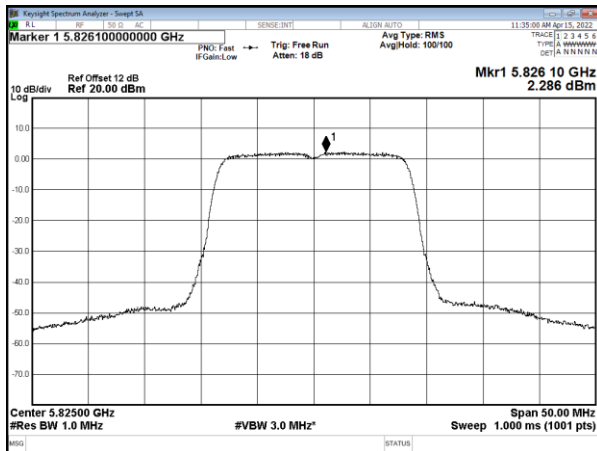
CH157



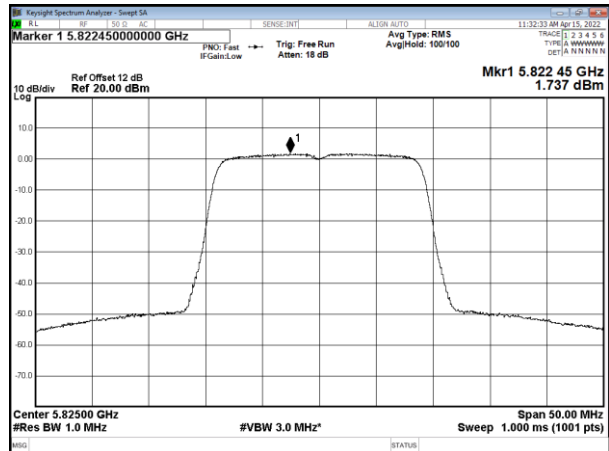
CH157



CH165



CH165



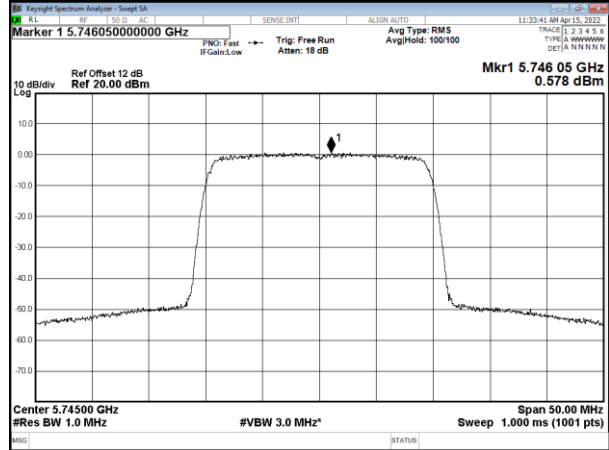
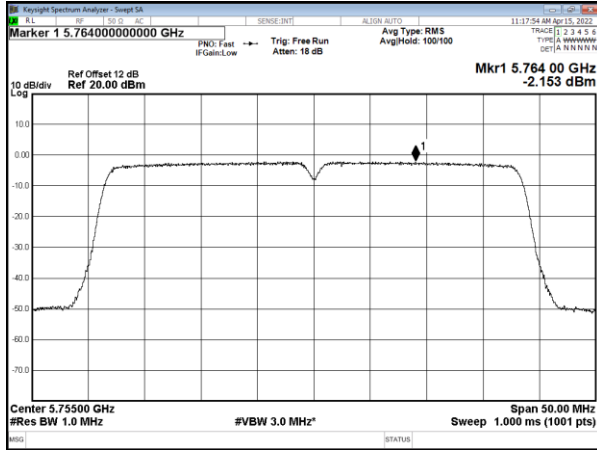


Modulation Standard: 802.11ac VHT40 (13.5Mbps)

Modulation Type: 802.1111ax HE20 (7.3Mbps)

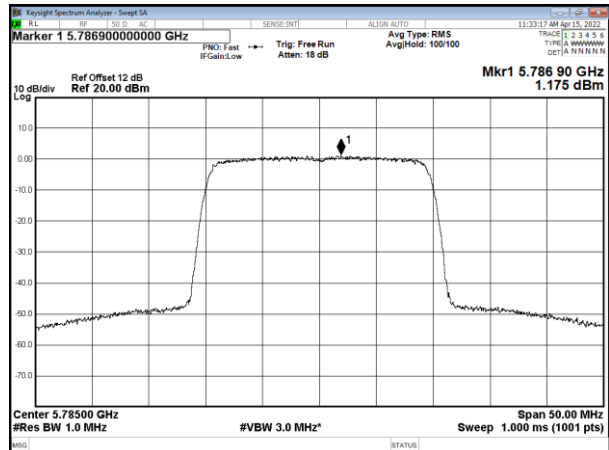
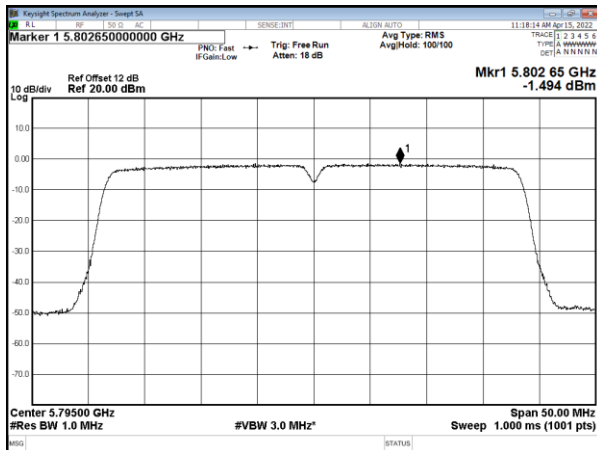
CH151

CH149



CH159

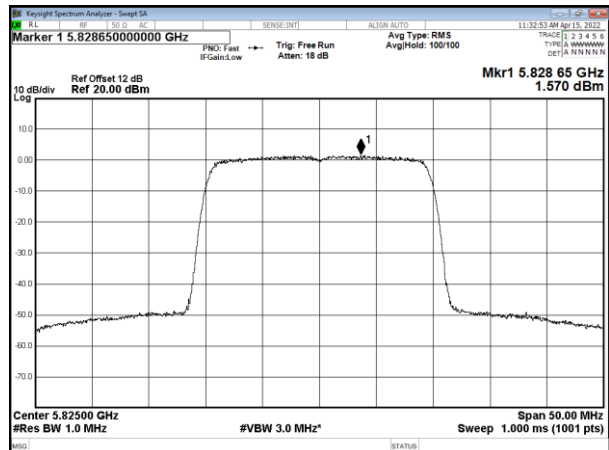
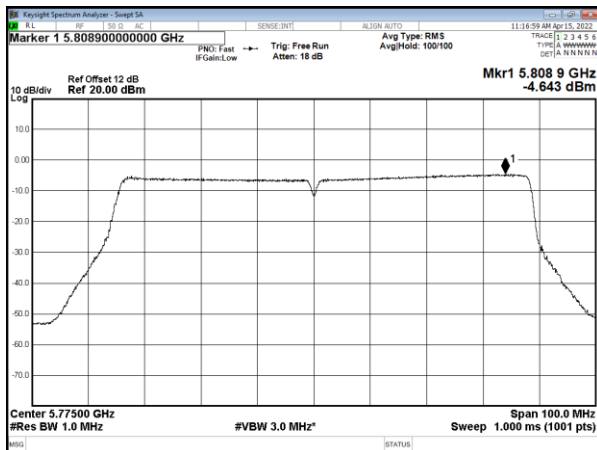
CH157



Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH155

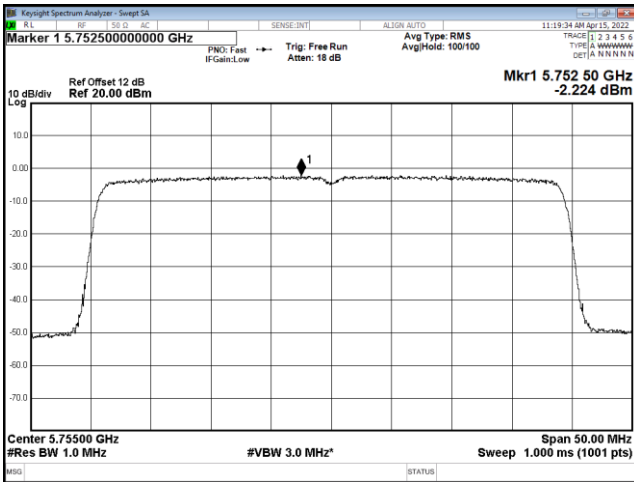
CH165



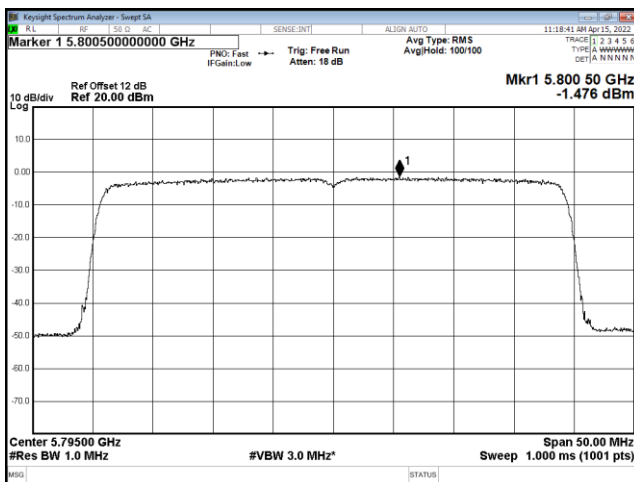


Modulation Type: 802.11 ax HE40 (14.6Mbps)

CH151

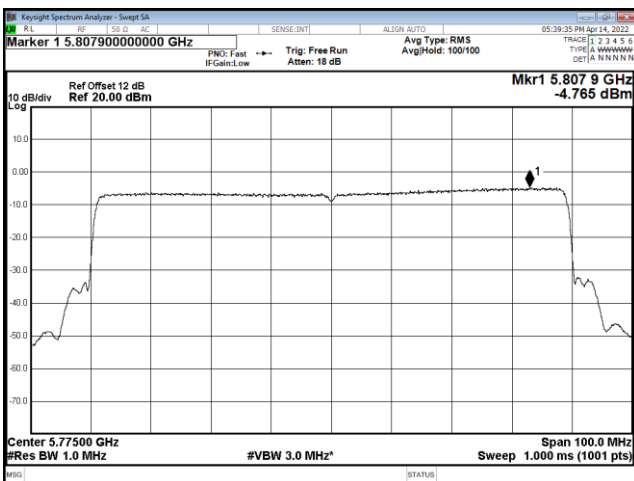


CH159



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH155

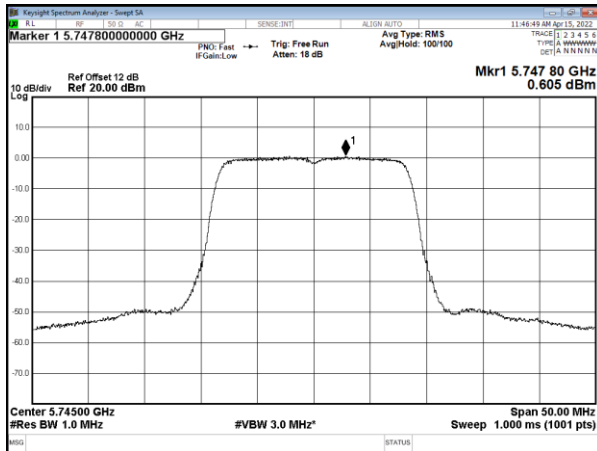




MIMO (ANT B)

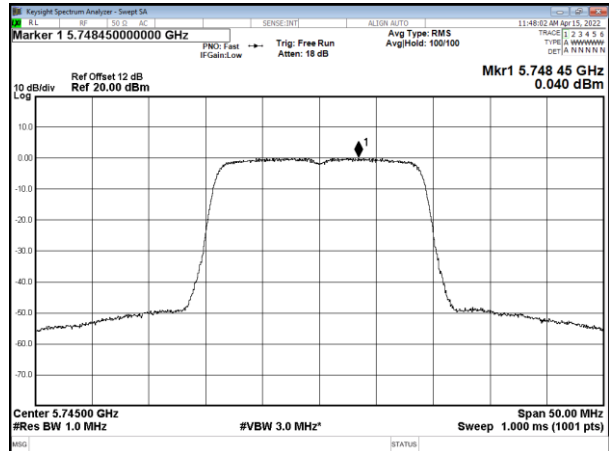
Modulation Standard: 802.11a (6Mbps)

CH149

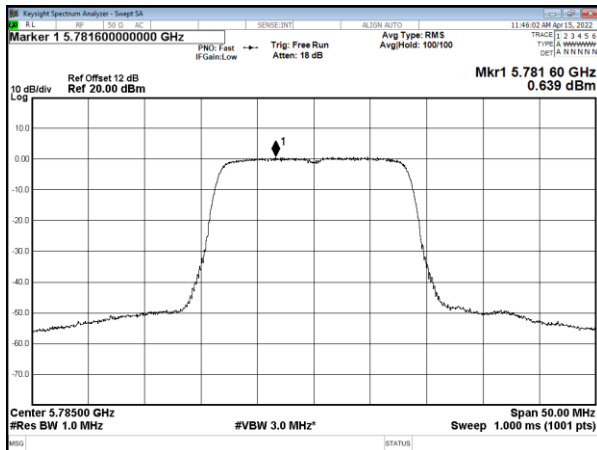


Modulation Standard: 802.11ac VHT20 (6.5Mbps)

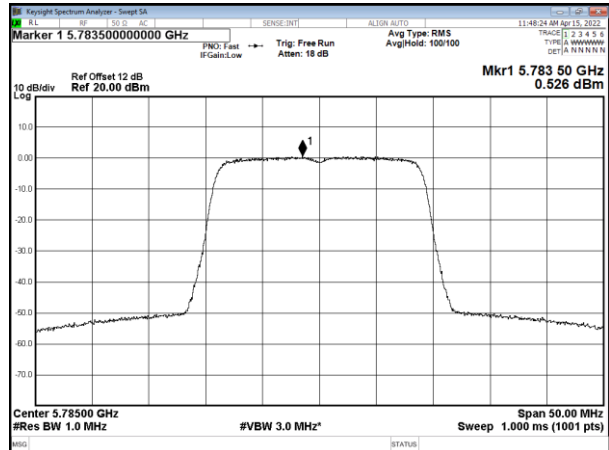
CH149



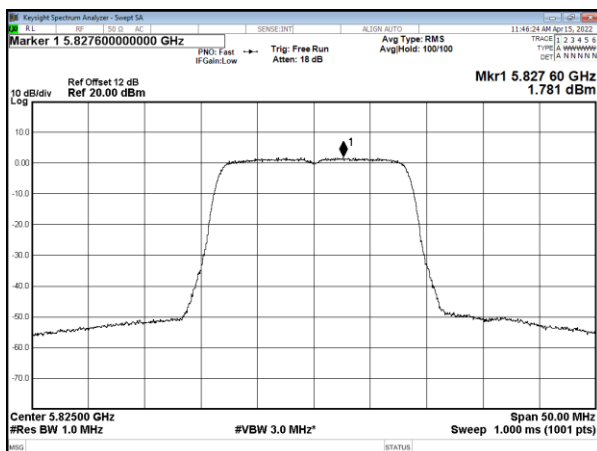
CH157



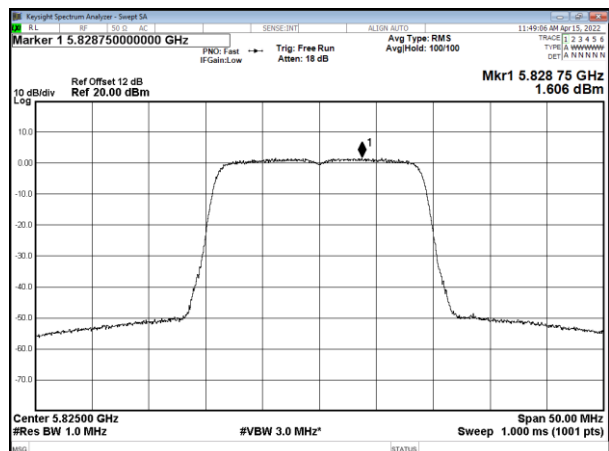
CH157



CH165



CH165



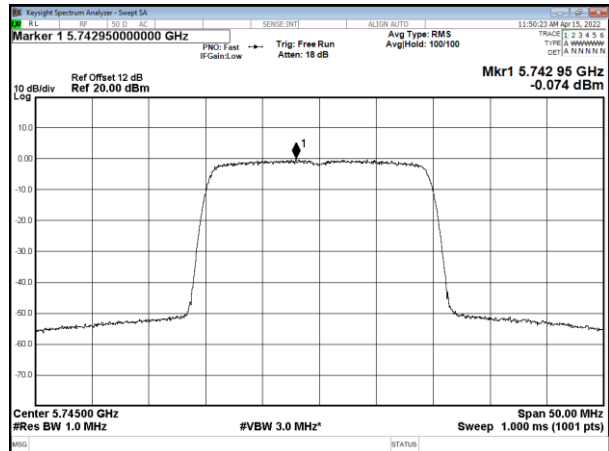
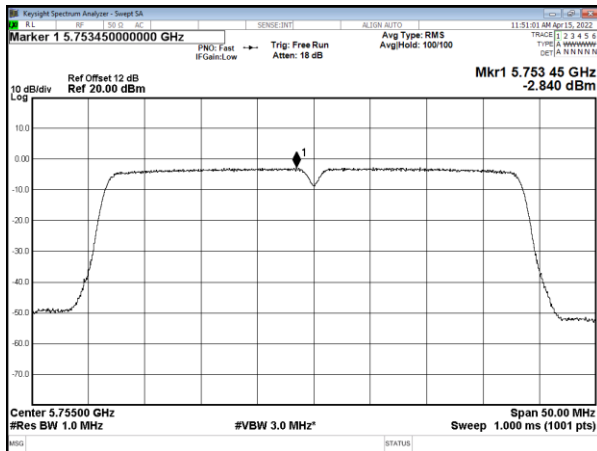


Modulation Standard: 802.11ac VHT40 (13.5Mbps)

Modulation Type: 802.1111ax HE20 (7.3Mbps)

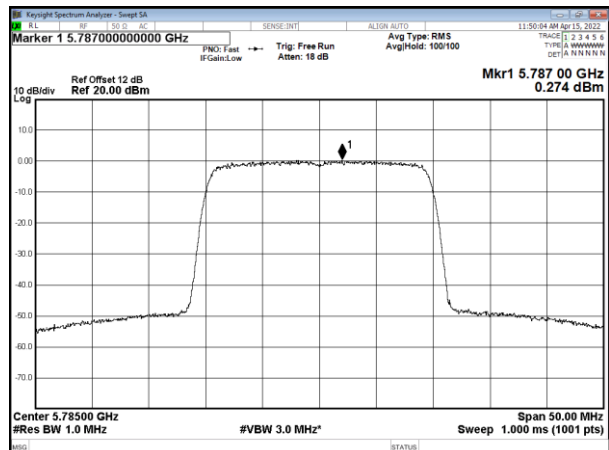
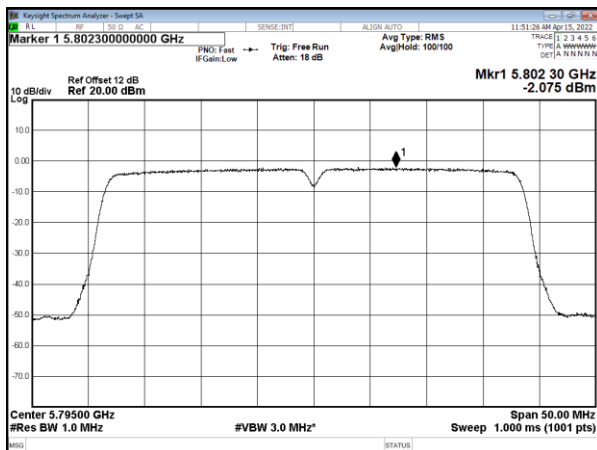
CH151

CH149



CH159

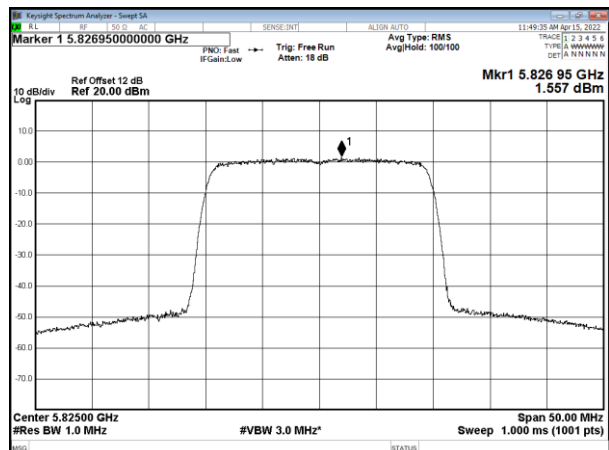
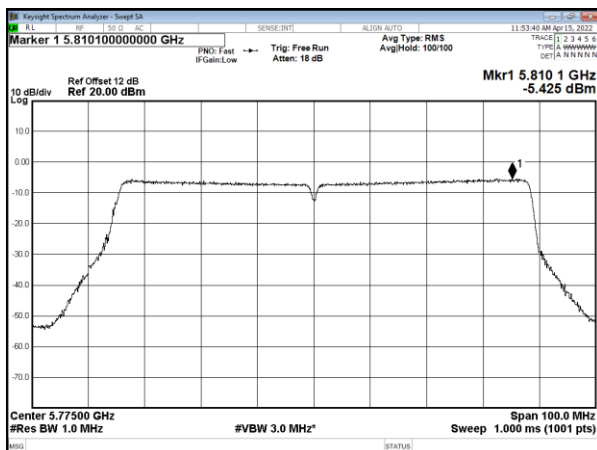
CH157



Modulation Standard: 802.11ac VHT80 (29.3Mbps)

CH155

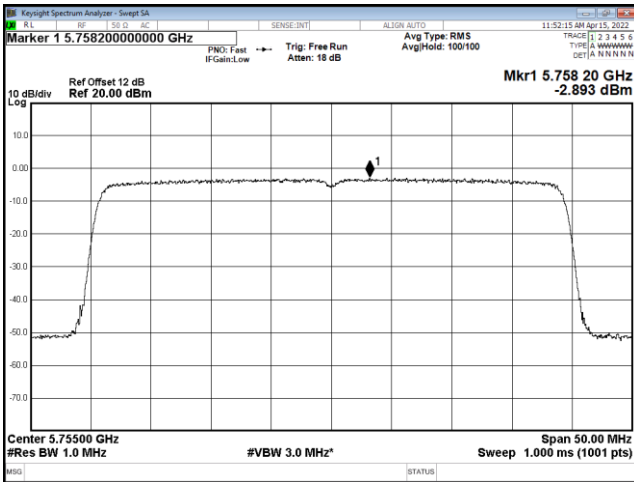
CH165



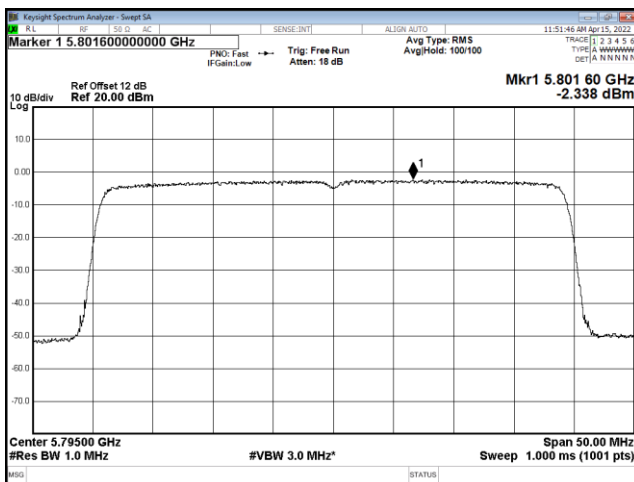


Modulation Type: 802.11 ax HE40 (14.6Mbps)

CH151

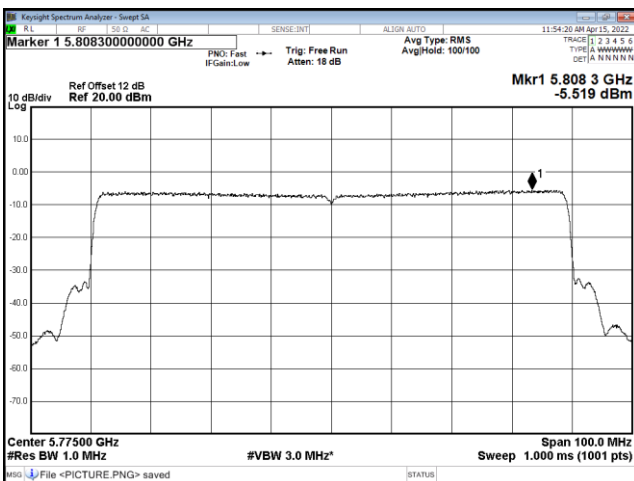


CH159



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH155



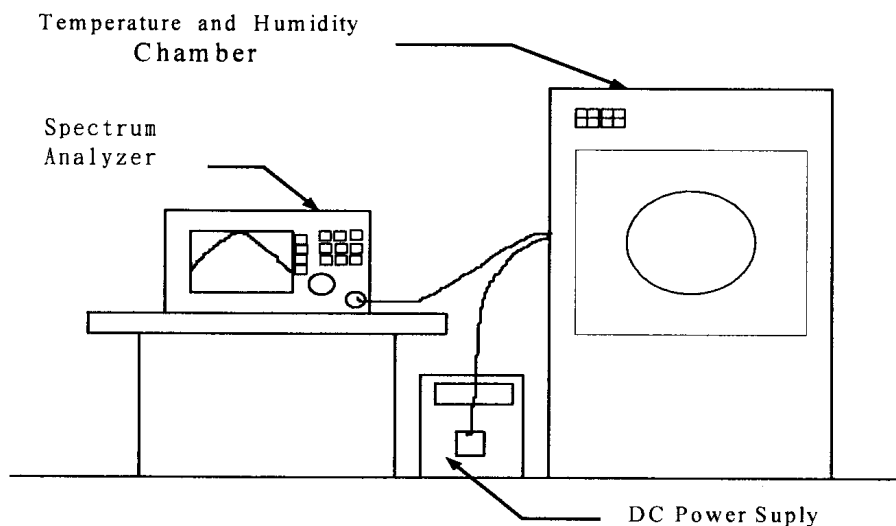


12. Frequency Stability

12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

12.2. Test Setup Layout





12.3. Test Result and Data

Operating frequency: 5180 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
45	13.2	5179.9882	-0.000228	5179.9778	-0.000429	5179.9824	-0.000340
	12	5179.9876	-0.000239	5179.9816	-0.000355	5179.9861	-0.000268
	10.8	5179.9824	-0.000340	5179.9847	-0.000295	5179.9846	-0.000297
30	13.2	5179.9827	-0.000334	5179.9814	-0.000359	5179.9833	-0.000322
	12	5179.9857	-0.000276	5179.9838	-0.000313	5179.9845	-0.000299
	10.8	5179.9871	-0.000249	5179.9807	-0.000373	5179.9857	-0.000276
20	13.2	5179.9851	-0.000288	5179.9866	-0.000259	5179.9882	-0.000228
	12	5179.9836	-0.000317	5179.9853	-0.000284	5179.9854	-0.000282
	10.8	5179.9847	-0.000295	5179.9845	-0.000299	5179.9875	-0.000241
10	13.2	5179.9825	-0.000338	5179.9889	-0.000214	5179.9842	-0.000305
	12	5179.9862	-0.000266	5179.9864	-0.000263	5179.9872	-0.000247
	10.8	5179.9885	-0.000222	5179.9875	-0.000241	5179.9895	-0.000203
0	13.2	5179.9852	-0.000286	5179.9868	-0.000255	5179.9826	-0.000336
	12	5179.9822	-0.000344	5179.9855	-0.000280	5179.9844	-0.000301
	10.8	5179.9894	-0.000205	5179.9867	-0.000257	5179.9829	-0.000330

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

-----End of the report -----