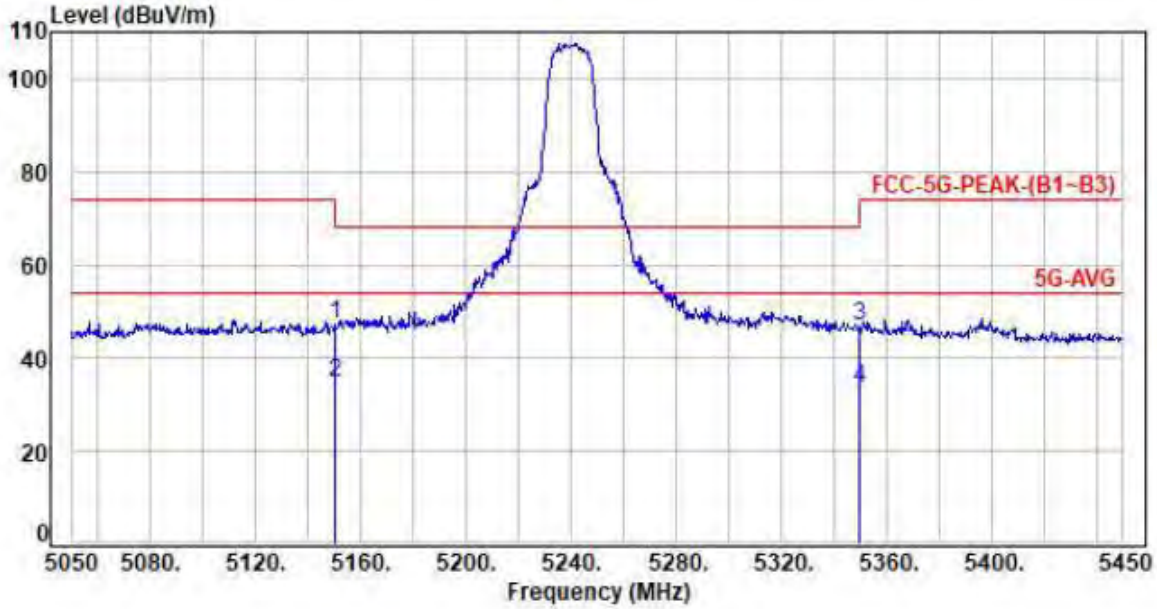
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH48 UNII-1		

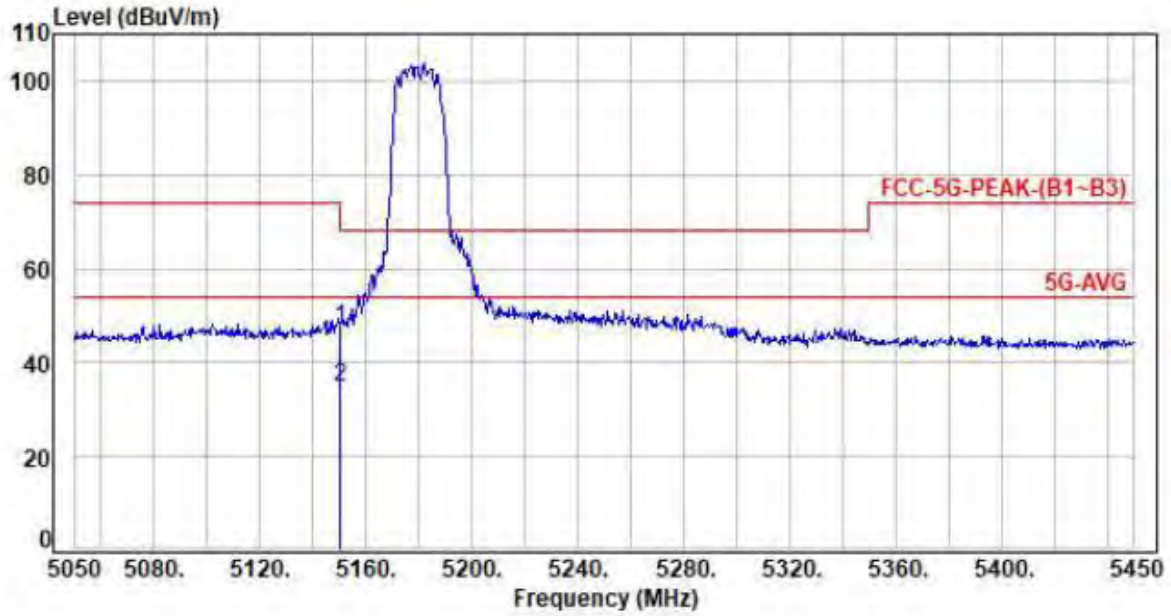


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	44.89	47.14	74.00	-26.86	Peak	P
2	5150.00	2.25	32.42	34.67	54.00	-19.33	Average	P
3	5350.00	2.26	44.45	46.71	74.00	-27.29	Peak	P
4	5350.00	2.26	31.26	33.52	54.00	-20.48	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

MIMO-UNII-1

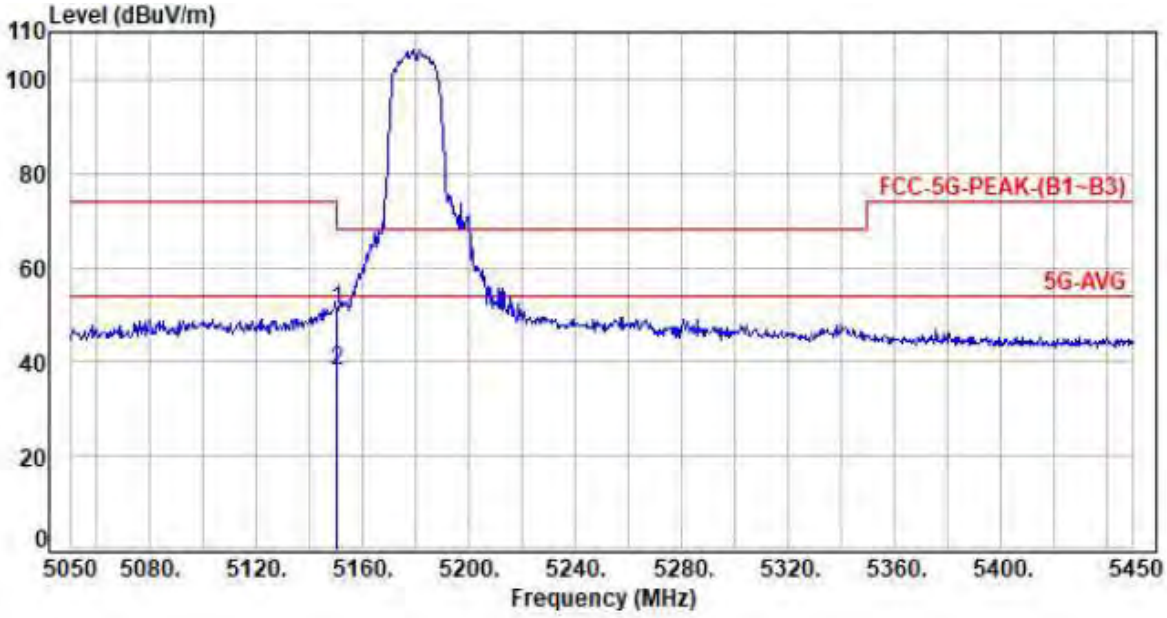
Power	AC120V/60Hz	**Pol/Phase**	VERTICAL
Test Mode	Mode3, 802.11ac VHT20 CH36 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	45.06	47.31	74.00	-26.69	Peak	P
2	5150.00	2.25	32.61	34.86	54.00	-19.14	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

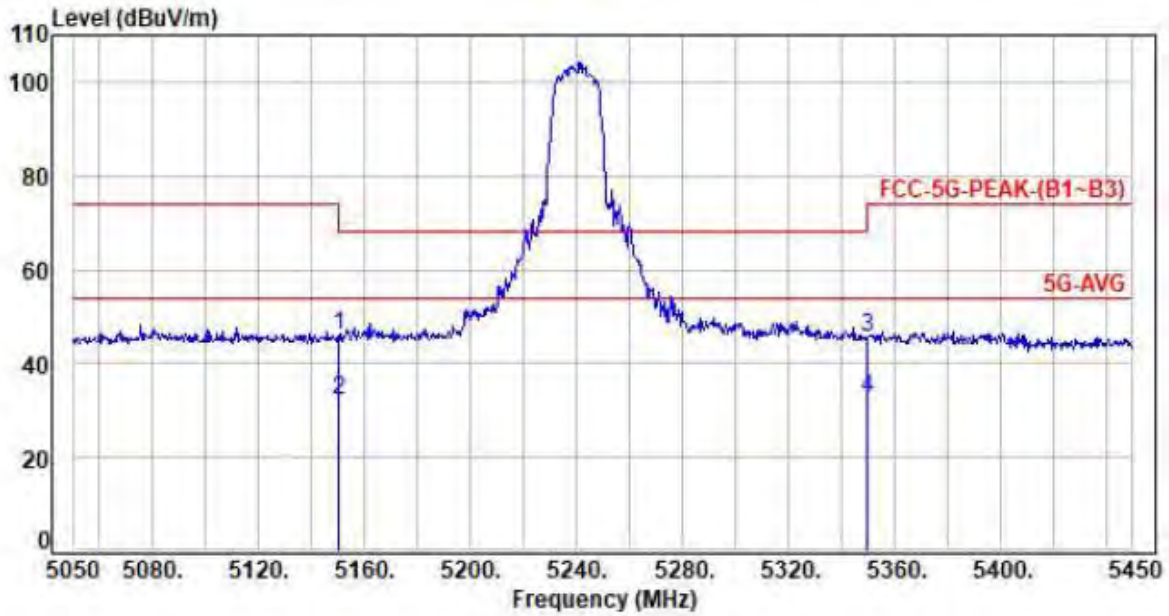
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode3, 802.11ac VHT20 CH36 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	48.81	51.06	74.00	-22.94	Peak	P
2	5150.00	2.25	35.89	38.14	54.00	-15.86	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

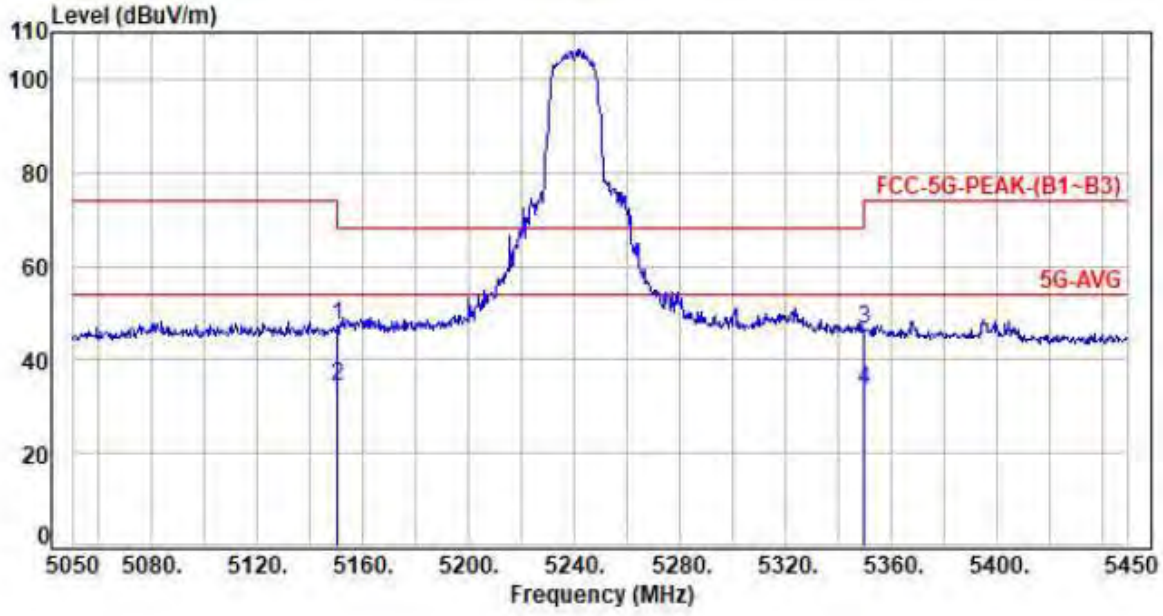
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH48 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	43.68	45.93	74.00	-28.07	Peak	P
2	5150.00	2.25	29.77	32.02	54.00	-21.98	Average	P
3	5350.00	2.26	43.43	45.69	74.00	-28.31	Peak	P
4	5350.00	2.26	30.33	32.59	54.00	-21.41	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

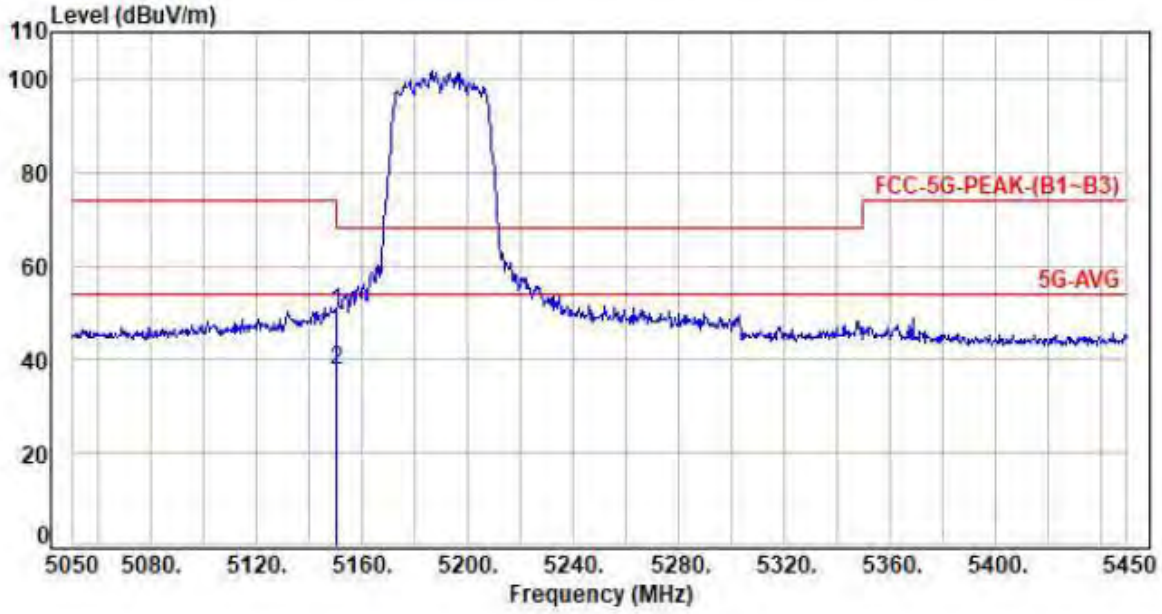
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH48 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	44.82	47.07	74.00	-26.93	Peak	P
2	5150.00	2.25	32.10	34.35	54.00	-19.65	Average	P
3	5350.00	2.26	44.13	46.39	74.00	-27.61	Peak	P
4	5350.00	2.26	31.36	33.62	54.00	-20.38	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

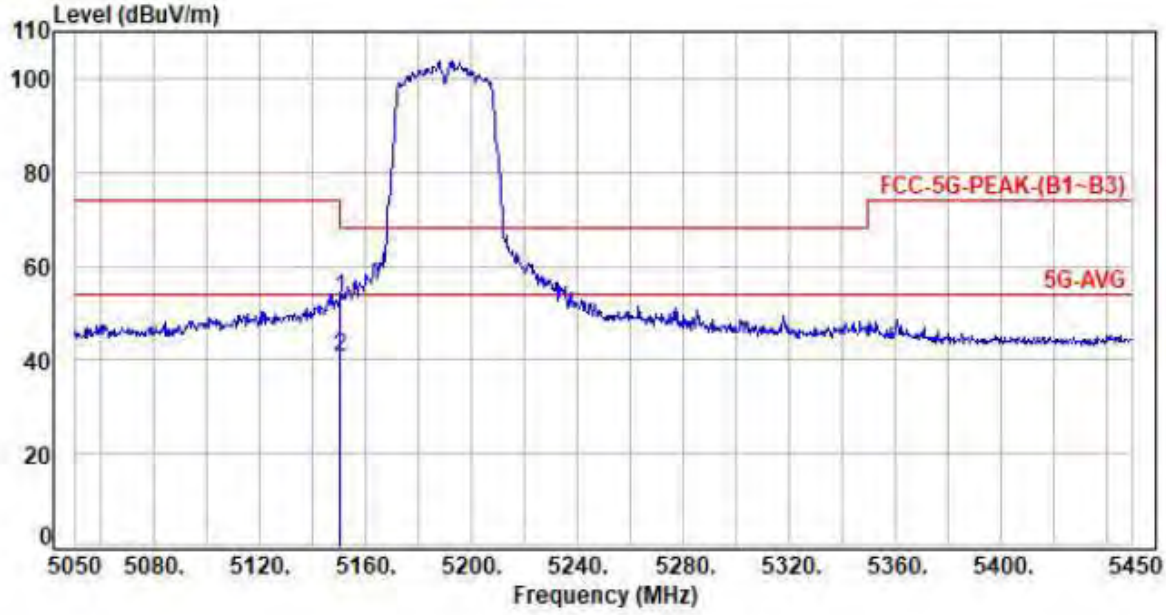
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode4, 802.11ac VHT40 CH38 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	48.13	50.38	74.00	-23.62	Peak	P
2	5150.00	2.25	35.25	37.50	54.00	-16.50	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

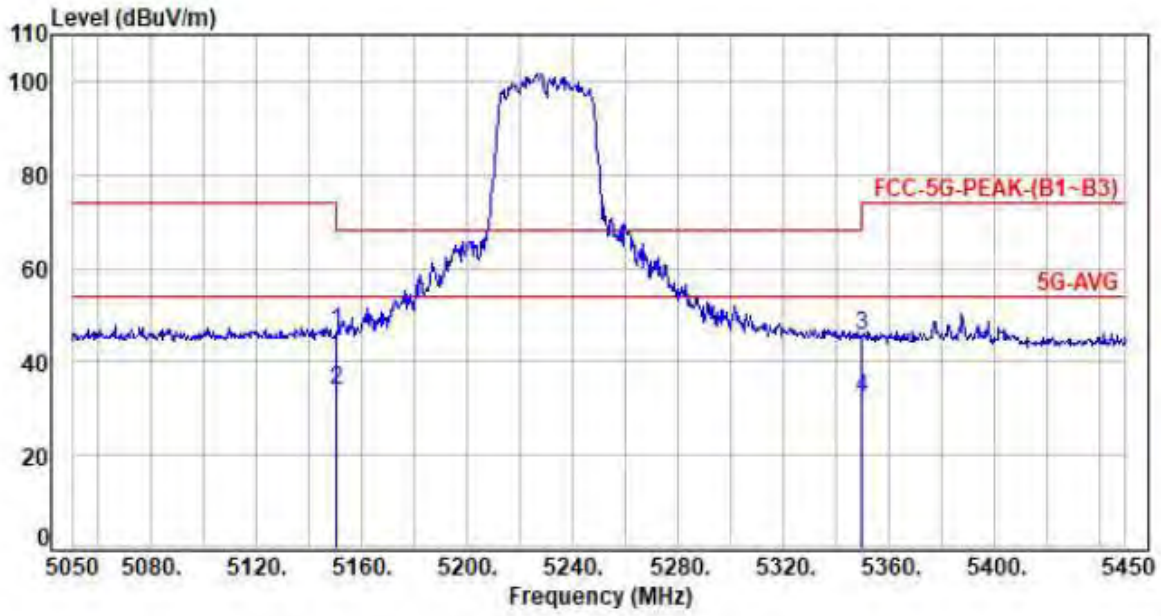
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode4, 802.11ac VHT40 CH38 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	51.01	53.26	74.00	-20.74	Peak	P
2	5150.00	2.25	38.44	40.69	54.00	-13.31	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

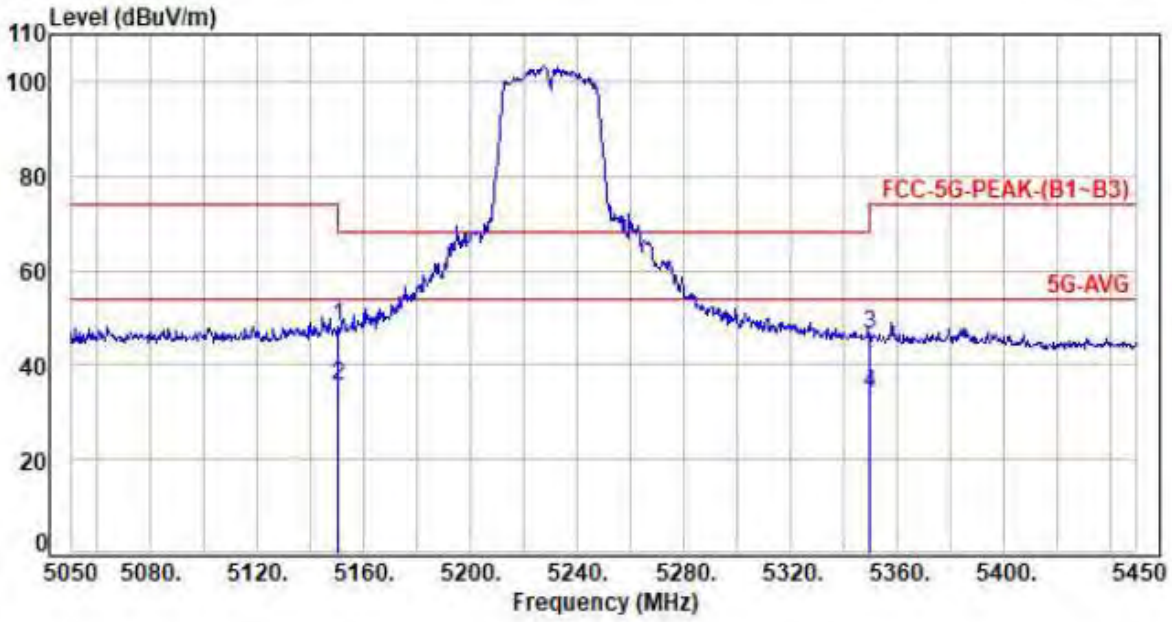
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode4, 802.11ac VHT40 CH46 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	44.29	46.54	74.00	-27.46	Peak	P
2	5150.00	2.25	31.70	33.95	54.00	-20.05	Average	P
3	5350.00	2.26	43.52	45.78	74.00	-28.22	Peak	P
4	5350.00	2.26	30.13	32.39	54.00	-21.61	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

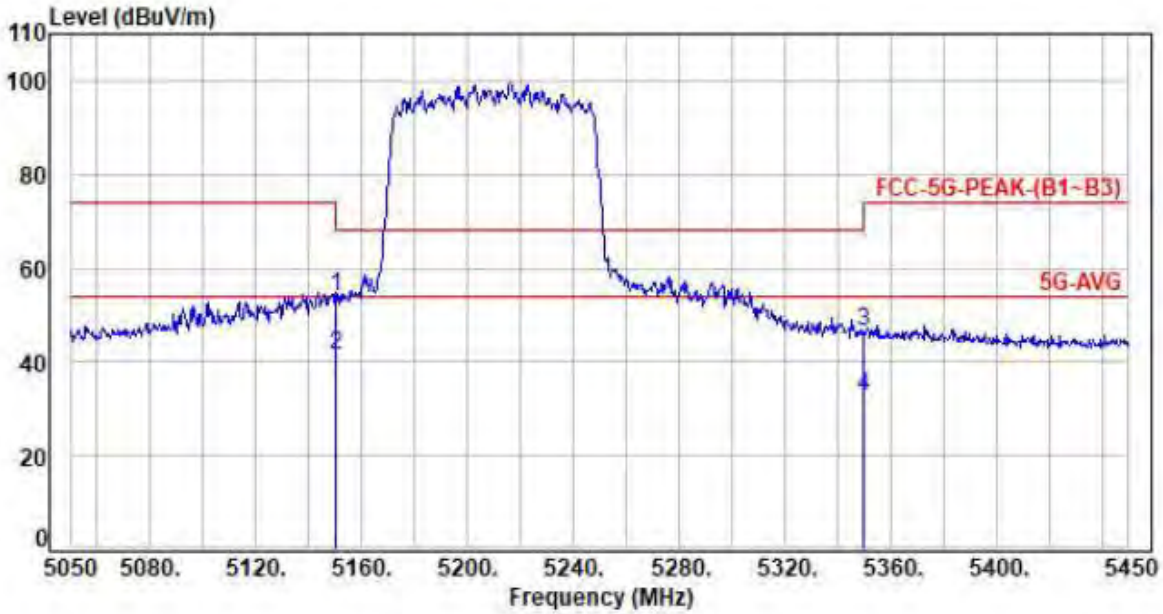
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH46 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	45.86	48.11	74.00	-25.89	Peak	P
2	5150.00	2.25	33.17	35.42	54.00	-18.58	Average	P
3	5350.00	2.26	44.21	46.47	74.00	-27.53	Peak	P
4	5350.00	2.26	31.54	33.80	54.00	-20.20	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

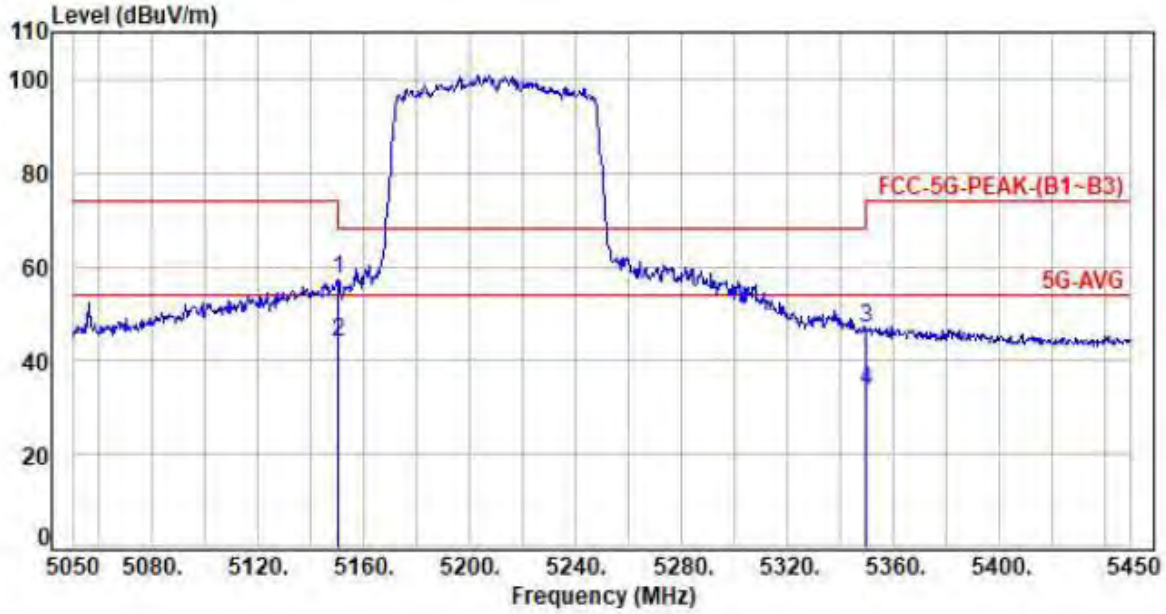
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 5, 802.11ac VHT80 CH42 UNII-1		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	51.90	54.15	74.00	-19.85	Peak	P
2	5150.00	2.25	39.11	41.36	54.00	-12.64	Average	P
3	5350.00	2.26	44.16	46.42	74.00	-27.58	Peak	P
4	5350.00	2.26	30.43	32.69	54.00	-21.31	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 5, 802.11ac VHT80 CH42 UNII-1		



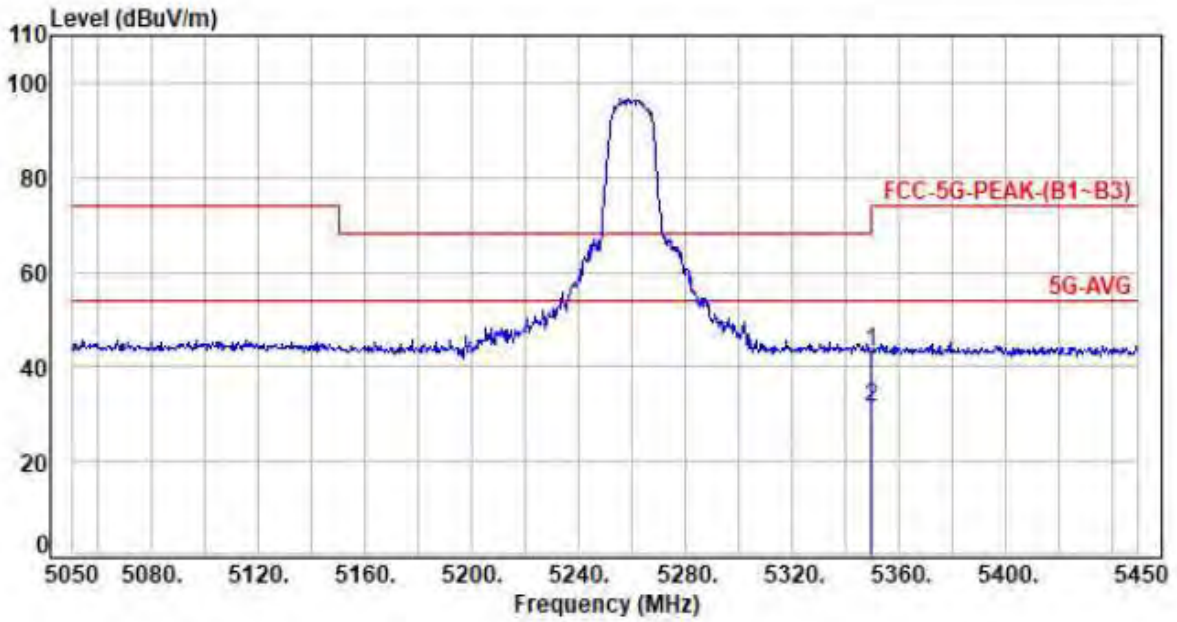
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	54.95	57.20	74.00	-16.80	Peak	P
2	5150.00	2.25	41.60	43.85	54.00	-10.15	Average	P
3	5350.00	2.26	44.46	46.72	74.00	-27.28	Peak	P
4	5350.00	2.26	31.12	33.38	54.00	-20.62	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

SISO-Ant A

UNII-2A

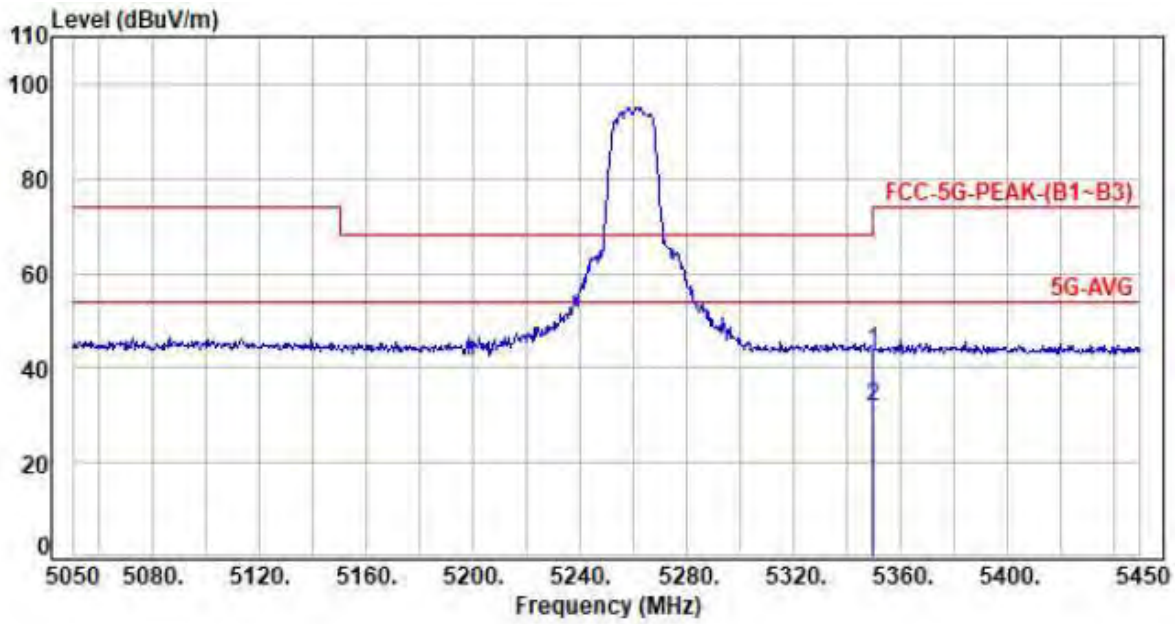
Power	AC120V/60Hz	**Pol/Phase**	VERTICAL
Test Mode	Mode 1, 802.11a CH52 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	40.93	43.19	74.00	-30.81	Peak	P
2	5350.00	2.26	29.09	31.35	54.00	-22.65	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

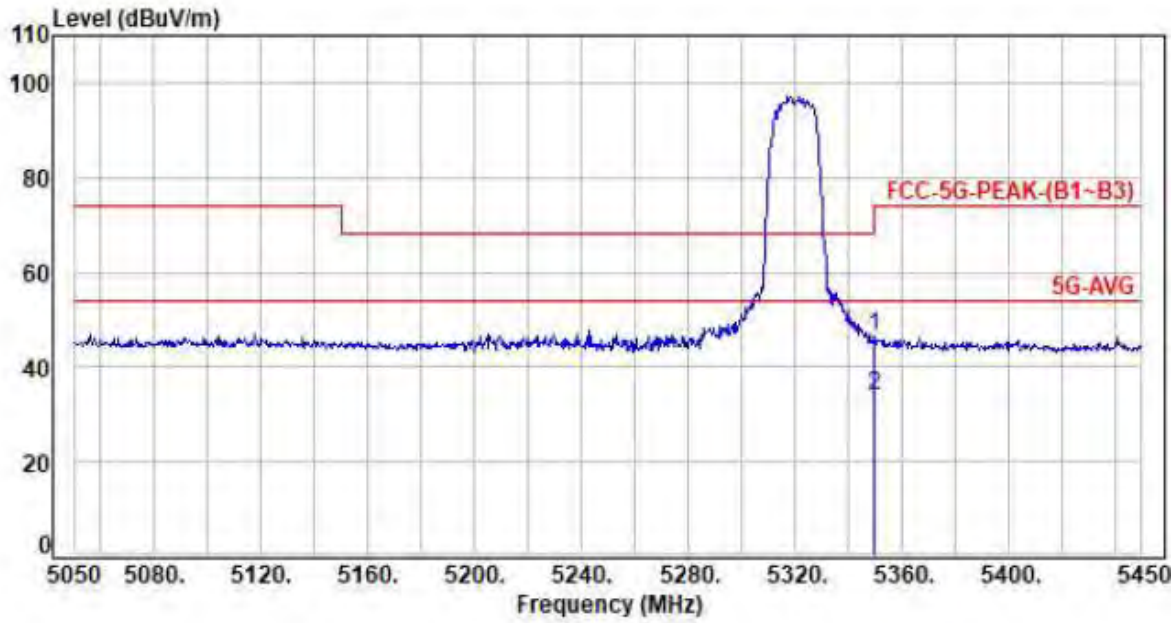
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH52 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	41.29	43.55	74.00	-30.45	Peak	P
2	5350.00	2.26	29.42	31.68	54.00	-22.32	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

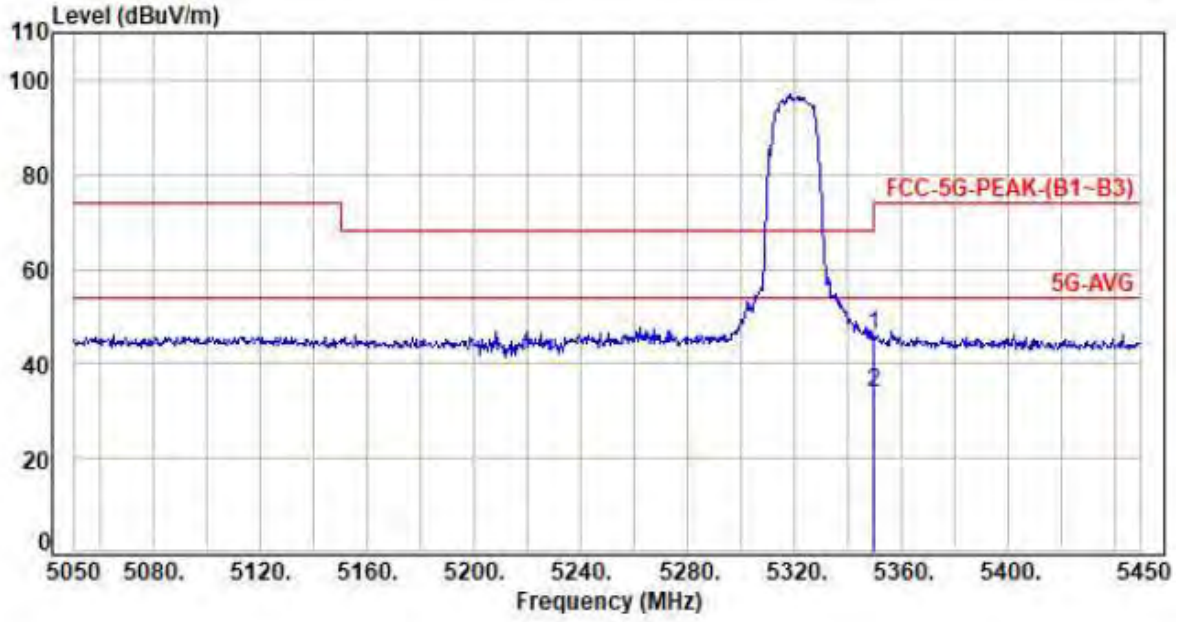
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 1, 802.11a CH64 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	44.36	46.62	74.00	-27.38	Peak	P
2	5350.00	2.26	31.61	33.87	54.00	-20.13	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

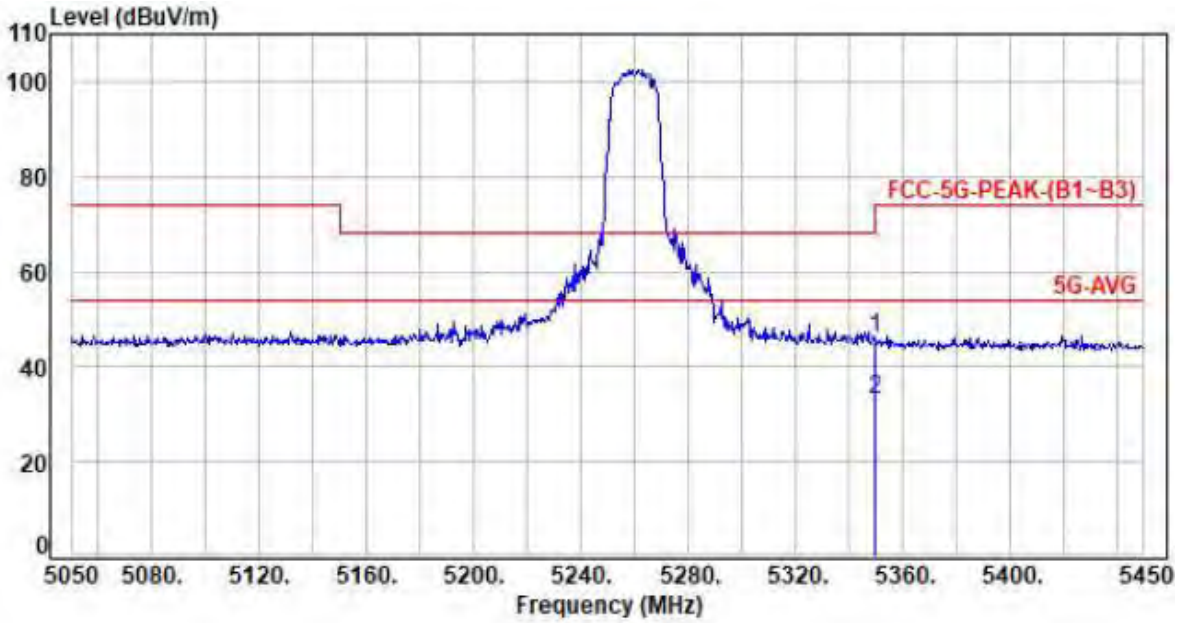
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH64 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	43.82	46.08	74.00	-27.92	Peak	P
2	5350.00	2.26	31.52	33.78	54.00	-20.22	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

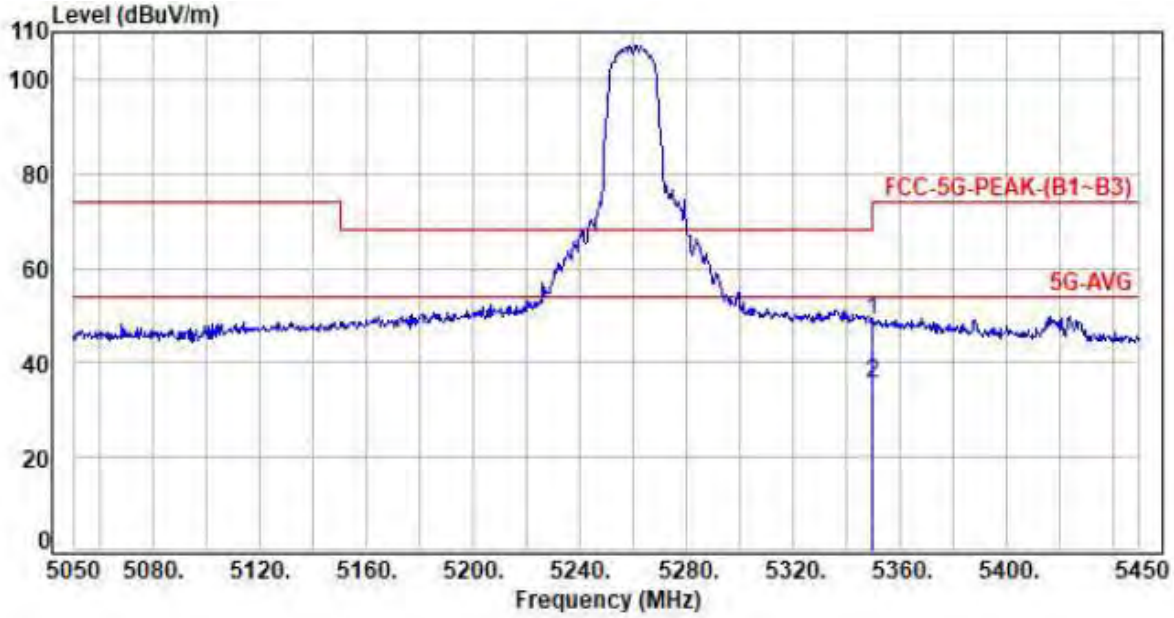
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH52 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	43.67	45.93	74.00	-28.07	Peak	P
2	5350.00	2.26	30.70	32.96	54.00	-21.04	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

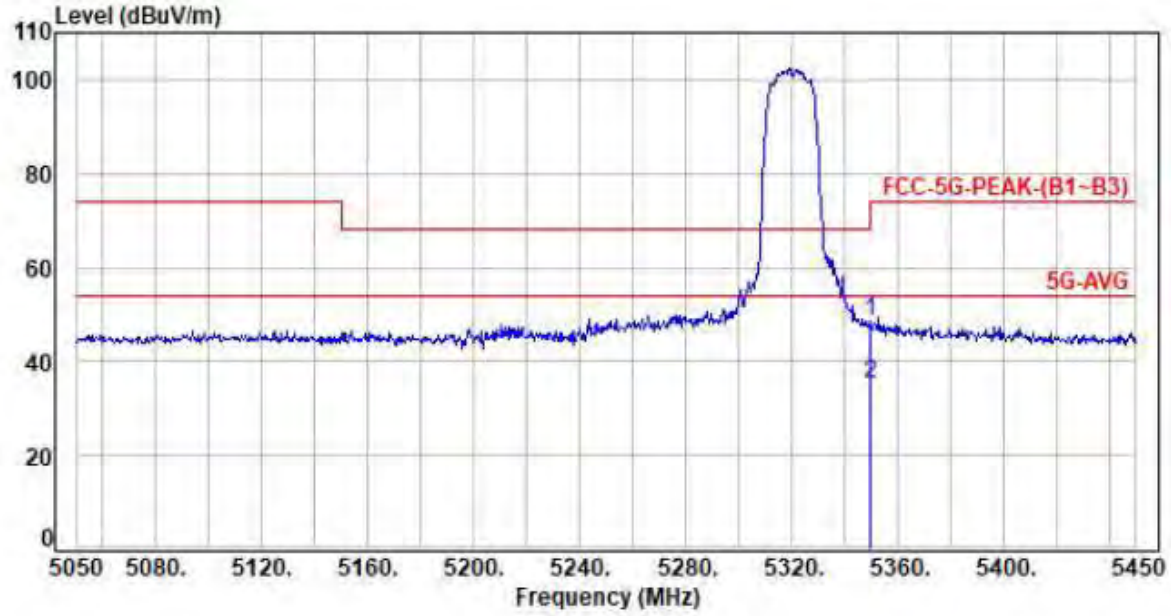
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH52 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	46.47	48.73	74.00	-25.27	Peak	P
2	5350.00	2.26	33.22	35.48	54.00	-18.52	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

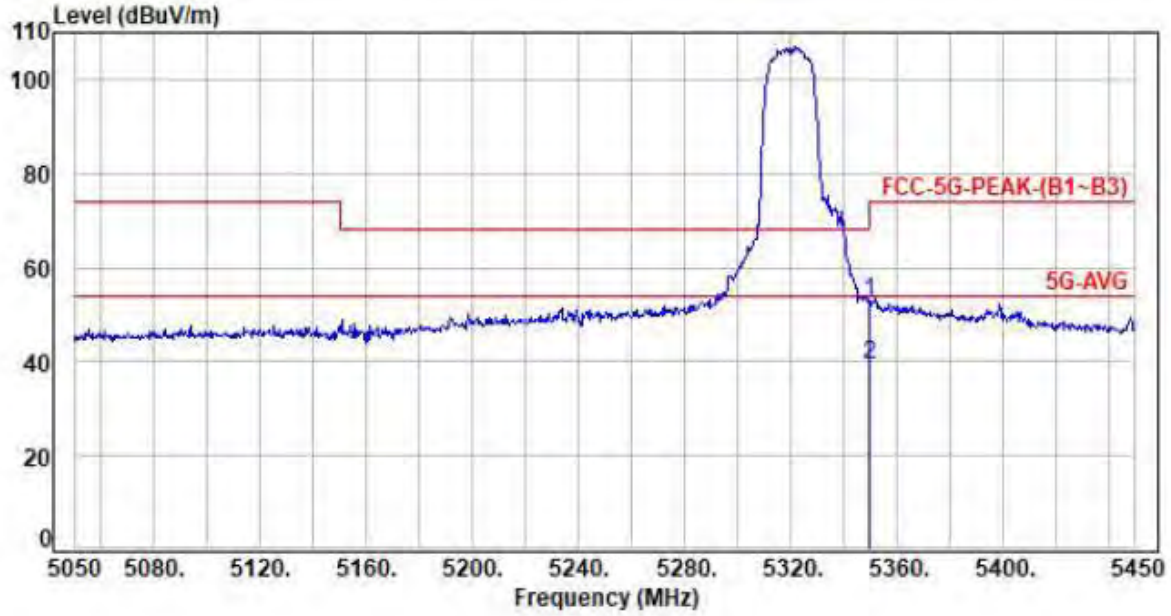
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH64 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	46.31	48.57	74.00	-25.43	Peak	P
2	5350.00	2.26	33.01	35.27	54.00	-18.73	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

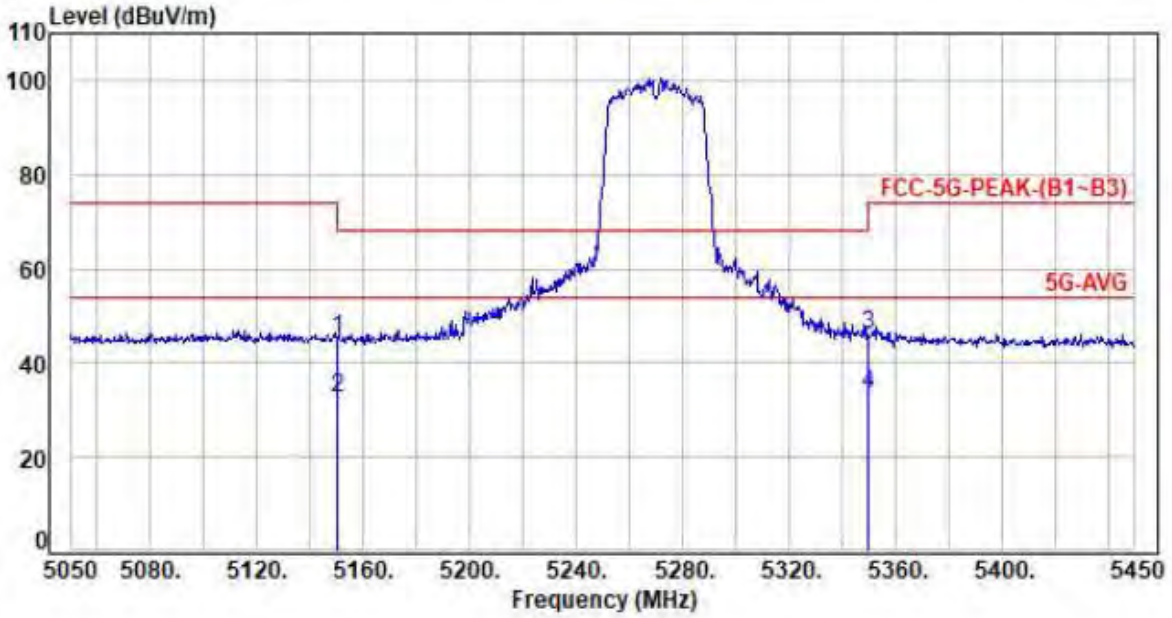
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode3, 802.11ac VHT20 CH64 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	50.30	52.56	74.00	-21.44	Peak	P
2	5350.00	2.26	37.19	39.45	54.00	-14.55	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

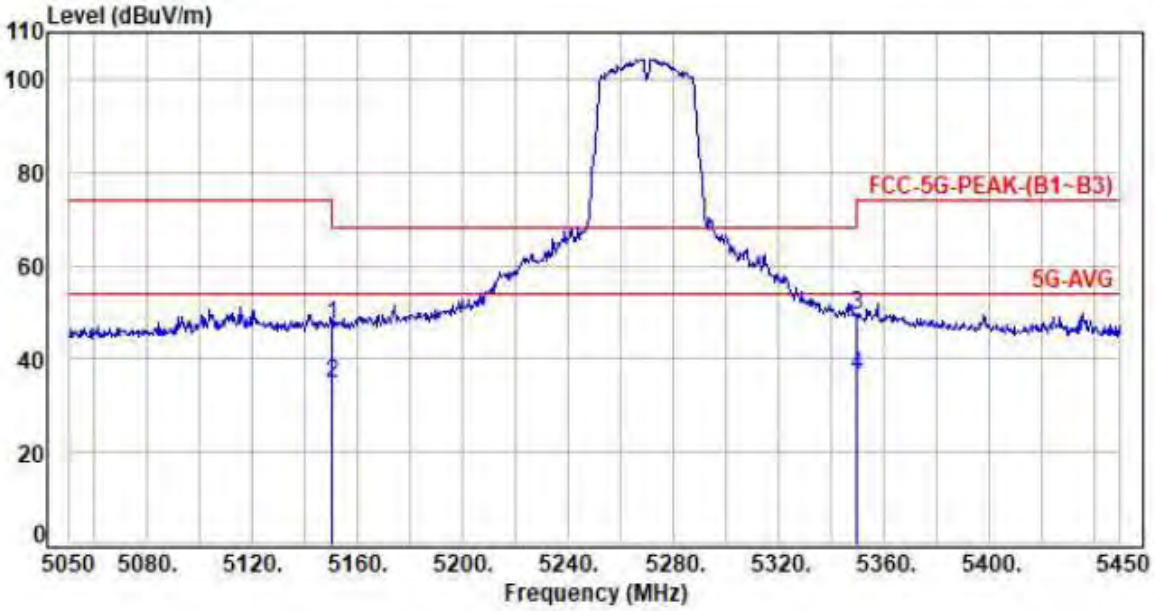
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH54 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	42.79	45.04	74.00	-28.96	Peak	P
2	5150.00	2.25	30.35	32.60	54.00	-21.40	Average	P
3	5350.00	2.26	43.74	46.00	74.00	-28.00	Peak	P
4	5350.00	2.26	31.28	33.54	54.00	-20.46	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

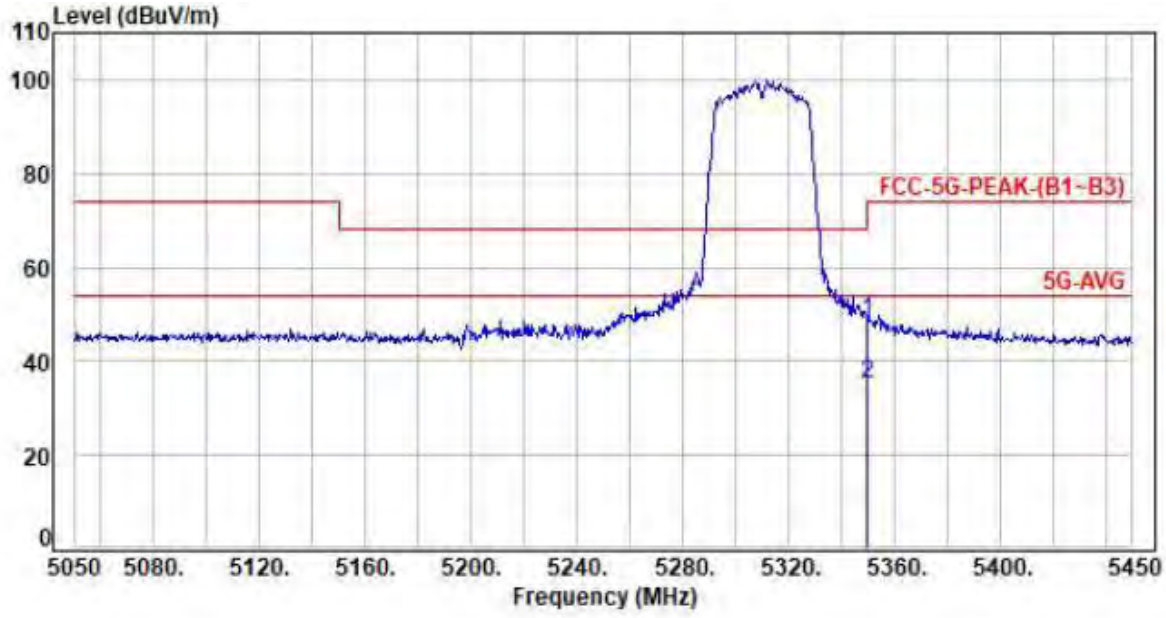
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH54 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	45.12	47.37	74.00	-26.63	Peak	P
2	5150.00	2.25	32.55	34.80	54.00	-19.20	Average	P
3	5350.00	2.26	47.26	49.52	74.00	-24.48	Peak	P
4	5350.00	2.26	34.26	36.52	54.00	-17.48	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

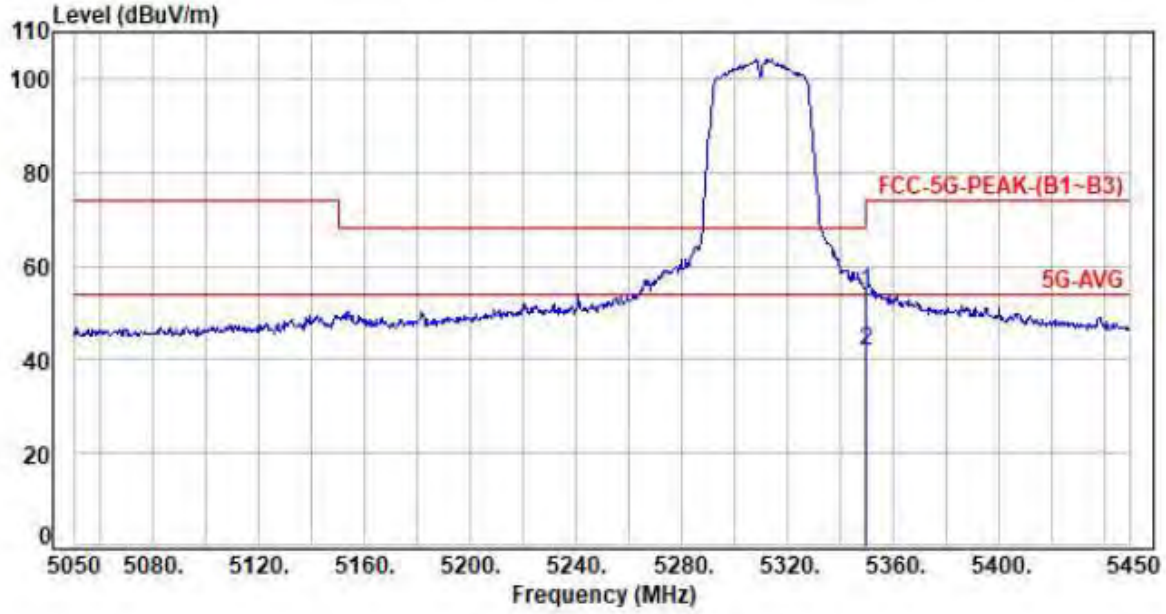
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH62 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	46.38	48.64	74.00	-25.36	Peak	P
2	5350.00	2.26	33.08	35.34	54.00	-18.66	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

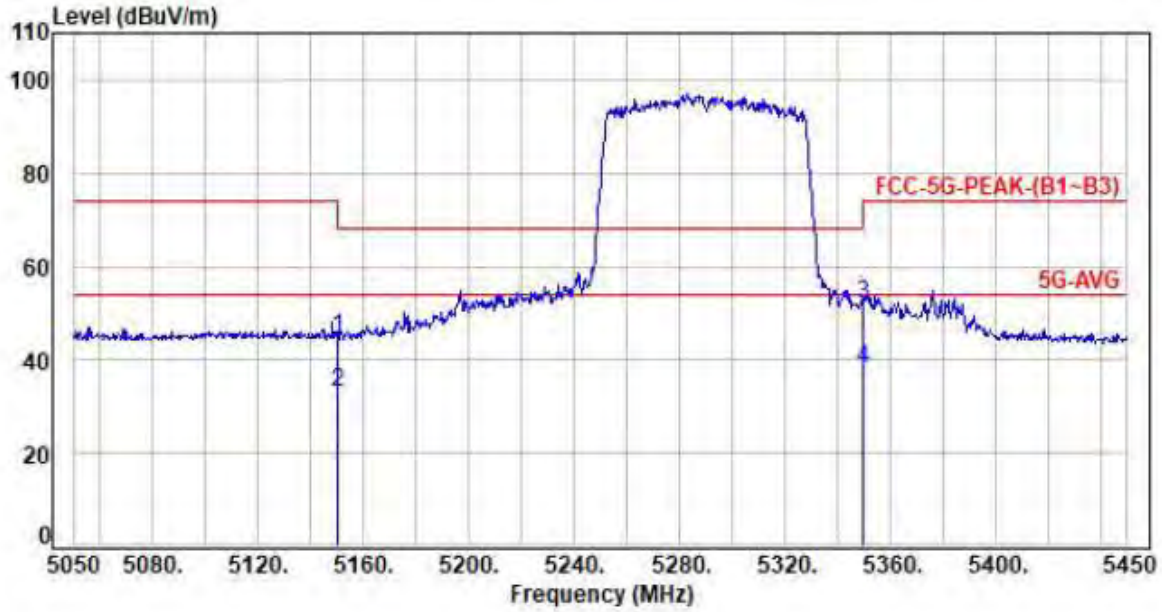
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH62 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.00	2.26	52.10	54.36	74.00	-19.64	Peak	P
2	5350.00	2.26	39.47	41.73	54.00	-12.27	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

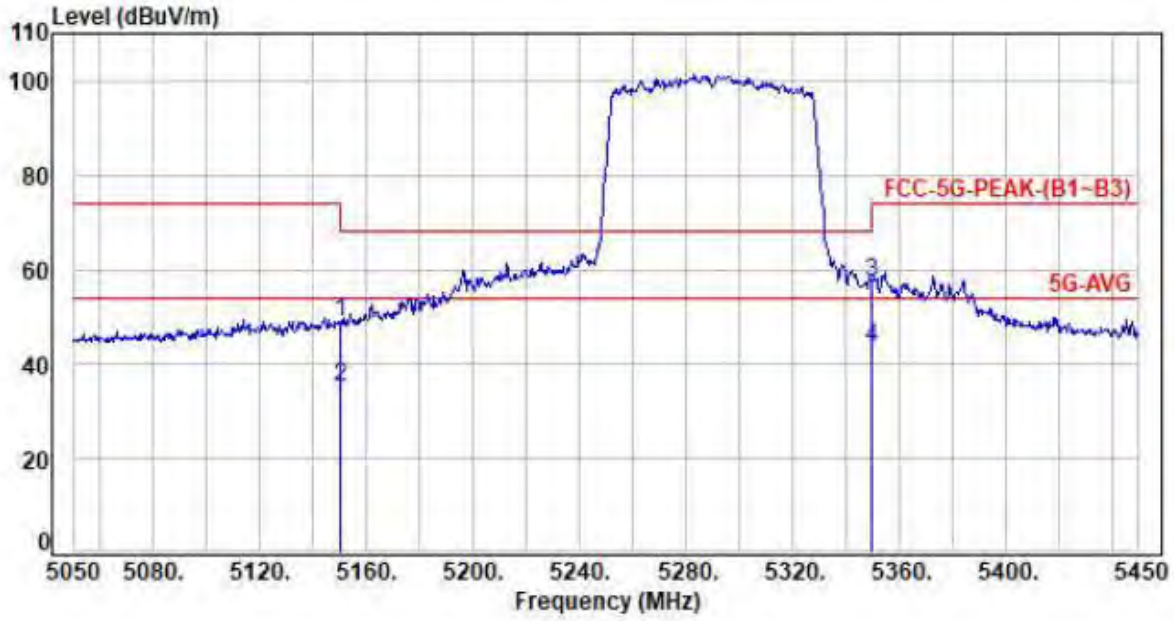
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 5 802.11ac VHT80 CH58 UNII-2A		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	42.56	44.81	74.00	-29.19	Peak	P
2	5150.00	2.25	30.65	32.90	54.00	-21.10	Average	P
3	5350.00	2.26	49.71	51.97	74.00	-22.03	Peak	P
4	5350.00	2.26	35.95	38.21	54.00	-15.79	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 5, 802.11ac VHT80 CH58 UNII-2A		



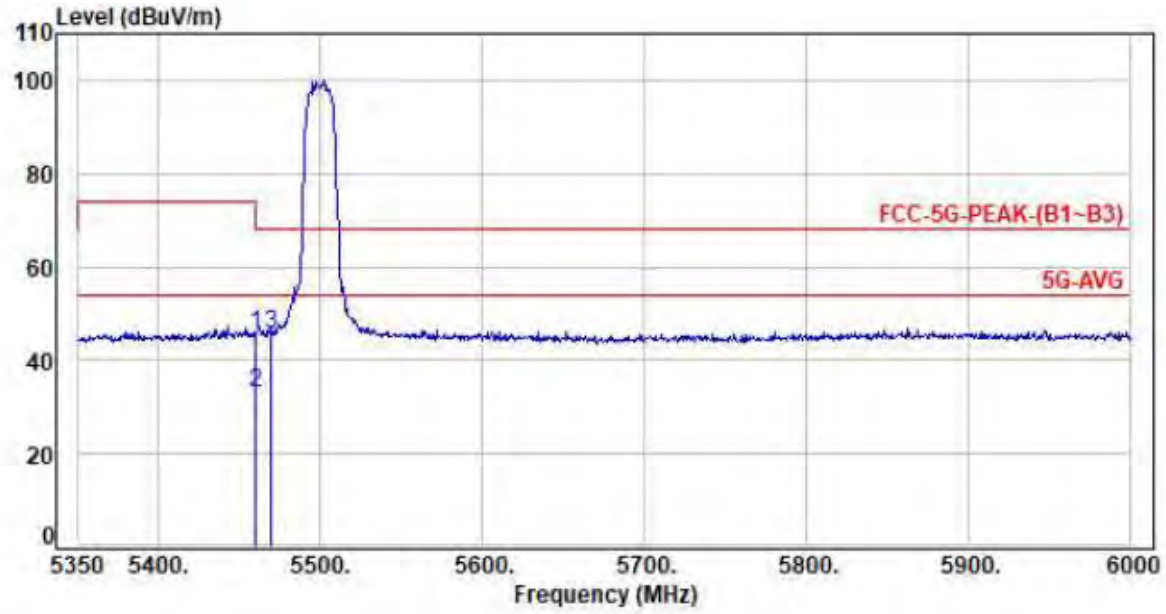
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5150.00	2.25	46.53	48.78	74.00	-25.22	Peak	P
2	5150.00	2.25	32.87	35.12	54.00	-18.88	Average	P
3	5350.00	2.26	54.91	57.17	74.00	-16.83	Peak	P
4	5350.00	2.26	41.43	43.69	54.00	-10.31	Average	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

SISO-Ant A

UNII-2C

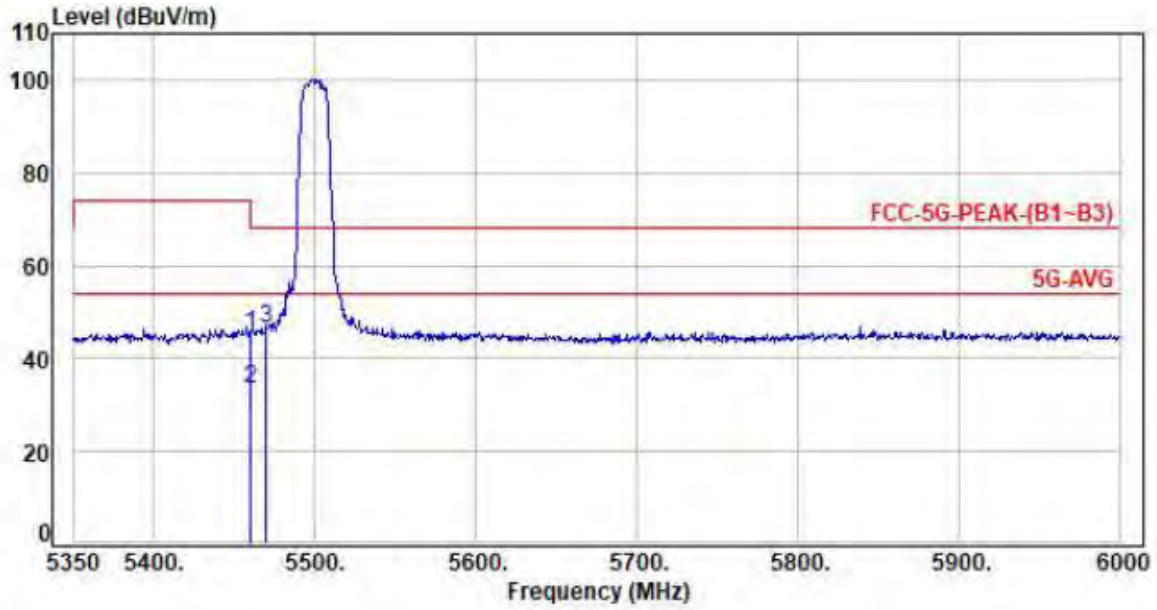
Power	AC120V/60Hz	**Pol/Phase**	VERTICAL
Test Mode	Mode 1, 802.11a CH100 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	43.38	45.75	74.00	-28.25	Peak	P
2	5460.00	2.37	30.65	33.02	54.00	-20.98	Average	P
3	5470.00	2.39	43.34	45.73	68.20	-22.47	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

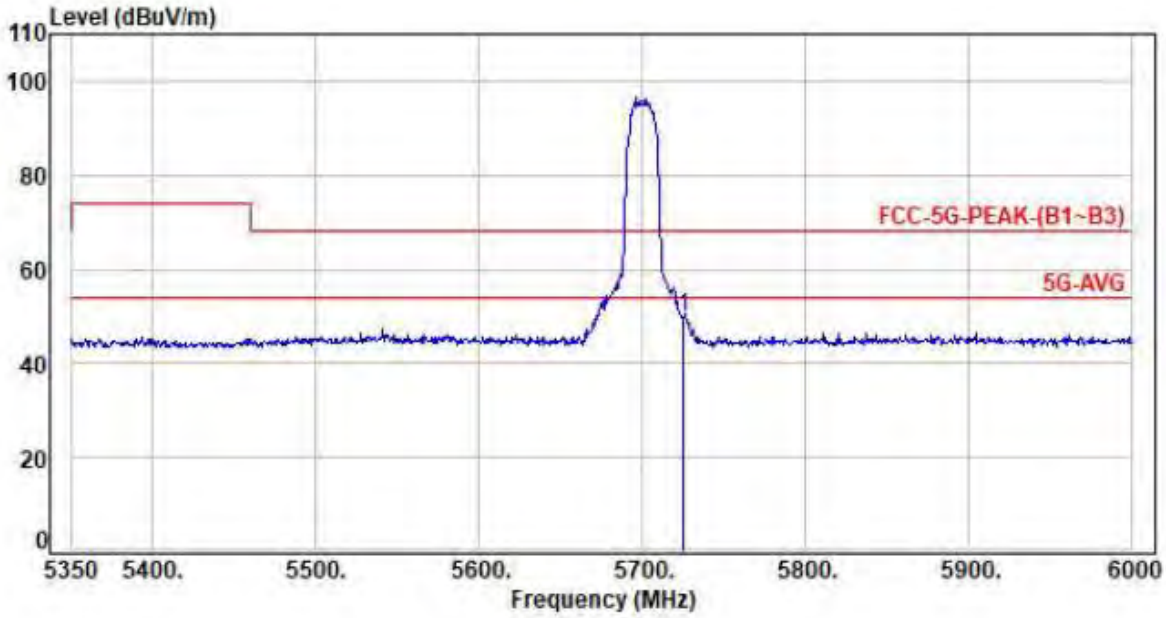
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH100 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	42.89	45.26	74.00	-28.74	Peak	P
2	5460.00	2.37	30.91	33.28	54.00	-20.72	Average	P
3	5470.00	2.39	44.12	46.51	68.20	-21.69	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

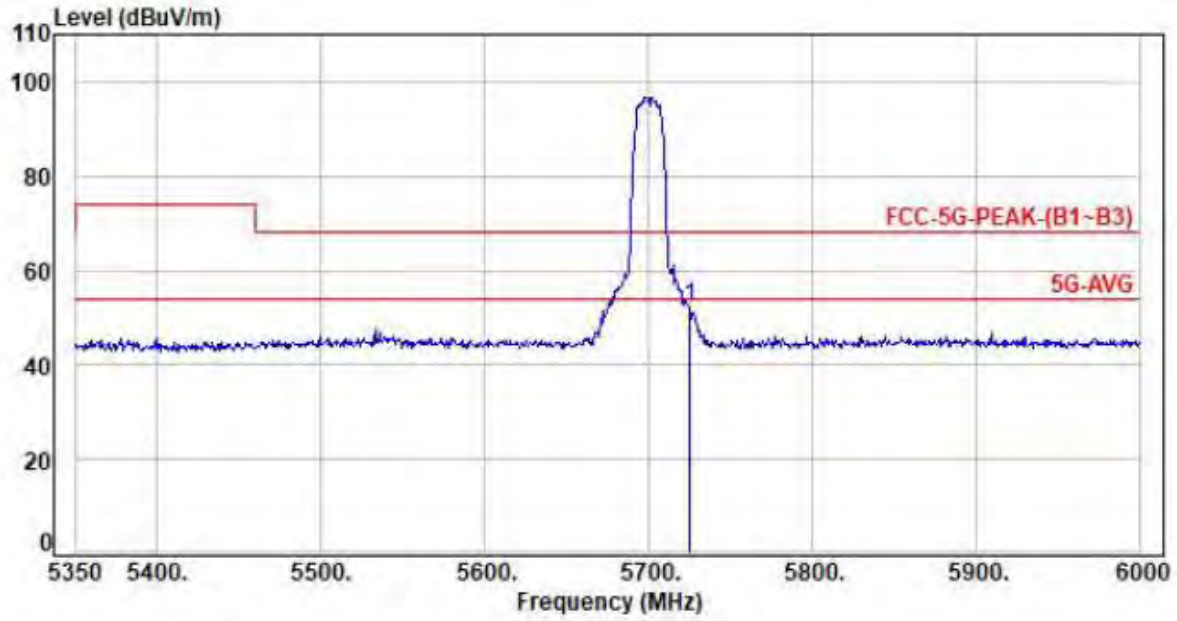
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 1, 802.11a CH140 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	46.66	49.89	68.20	-18.31	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH140 UNII-2C		

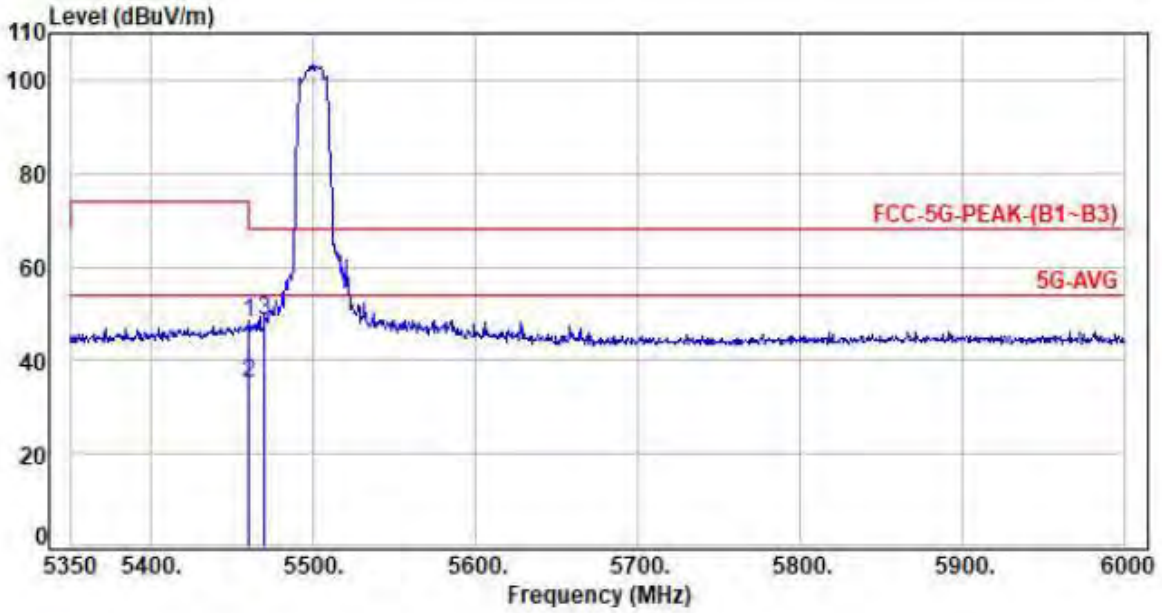


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	49.24	52.47	68.20	-15.73	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

MIMO-UNII-2C

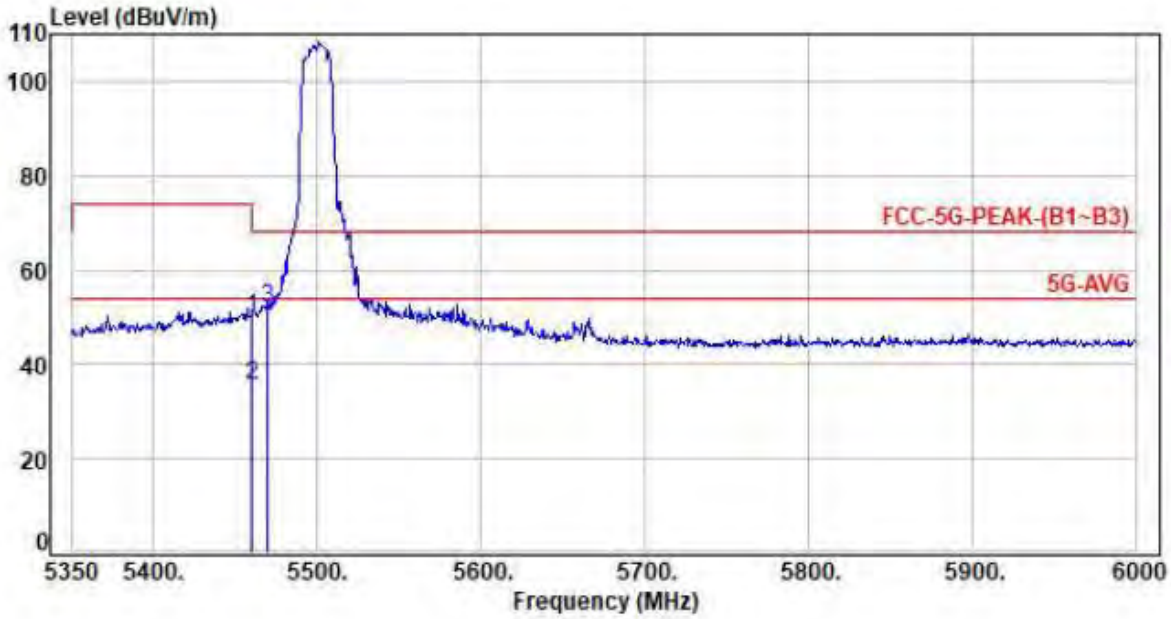
Power	AC120V/60Hz	**Pol/Phase**	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH100 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	45.91	48.28	74.00	-25.72	Peak	P
2	5460.00	2.37	32.87	35.24	54.00	-18.76	Average	P
3	5470.00	2.39	46.30	48.69	68.20	-19.51	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

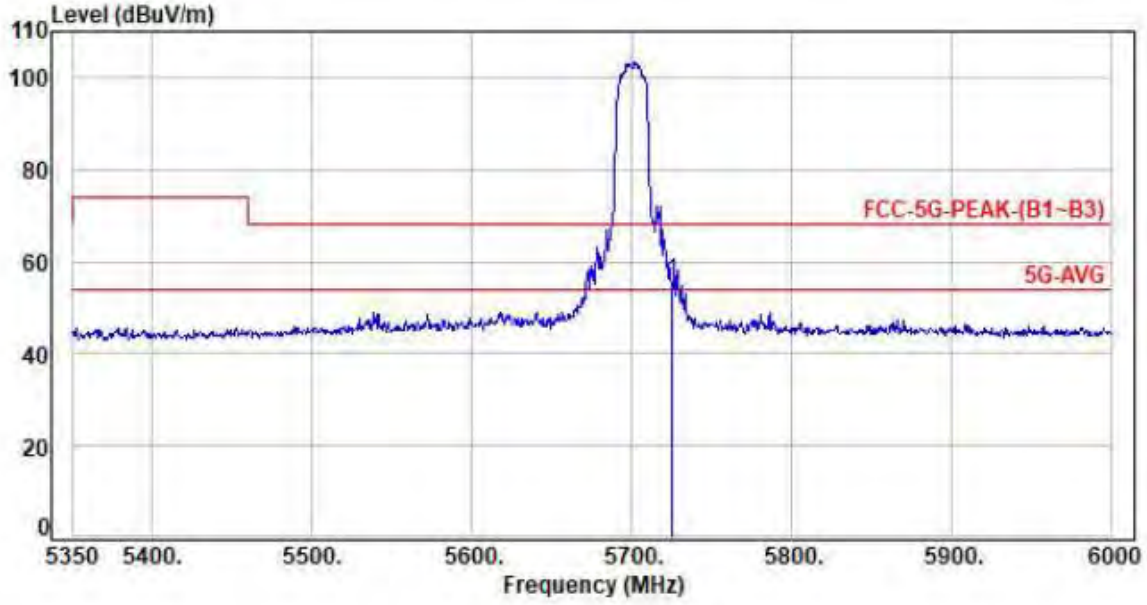
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH100 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	47.54	49.91	74.00	-24.09	Peak	P
2	5460.00	2.37	33.24	35.61	54.00	-18.39	Average	P
3	5470.00	2.39	49.62	52.01	68.20	-16.19	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

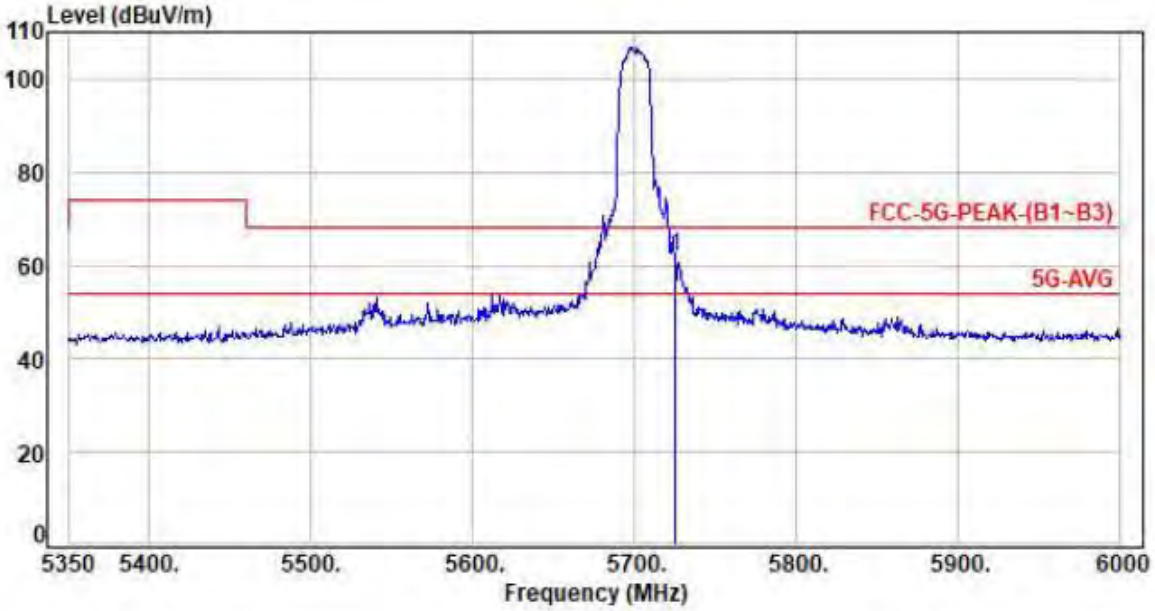
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH140 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	52.59	55.82	68.20	-12.38	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

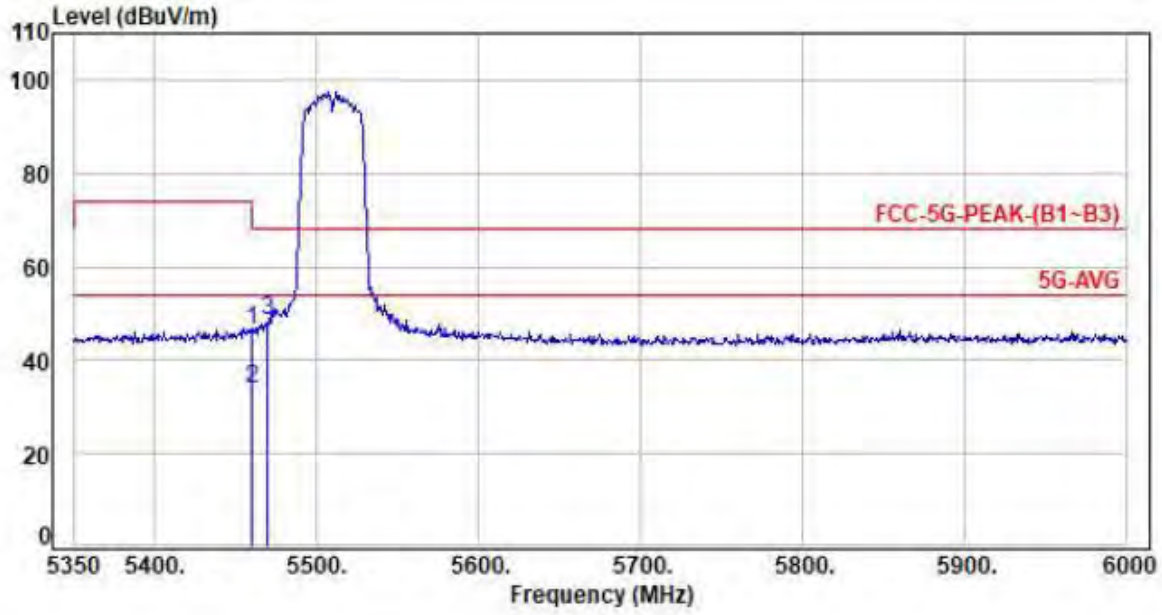
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH140 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	58.58	61.81	68.20	-6.39	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

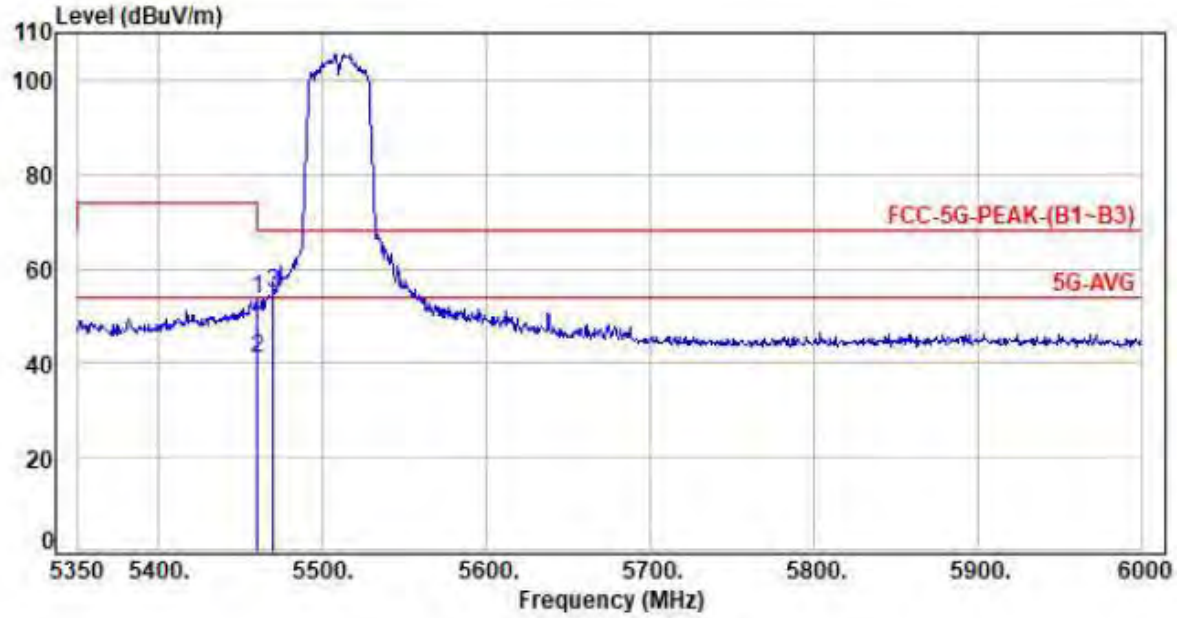
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH102 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	44.21	46.58	74.00	-27.42	Peak	P
2	5460.00	2.37	31.31	33.68	54.00	-20.32	Average	P
3	5470.00	2.39	46.01	48.40	68.20	-19.80	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

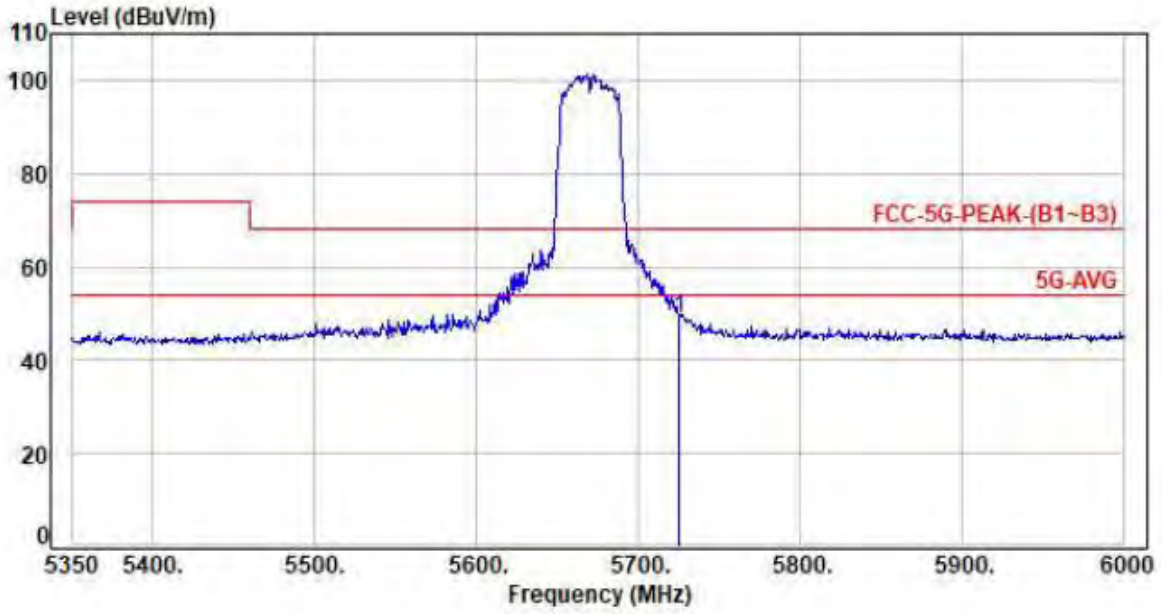
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH102 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	51.02	53.39	74.00	-20.61	Peak	P
2	5460.00	2.37	38.61	40.98	54.00	-13.02	Average	P
3	5470.00	2.39	52.24	54.63	68.20	-13.57	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

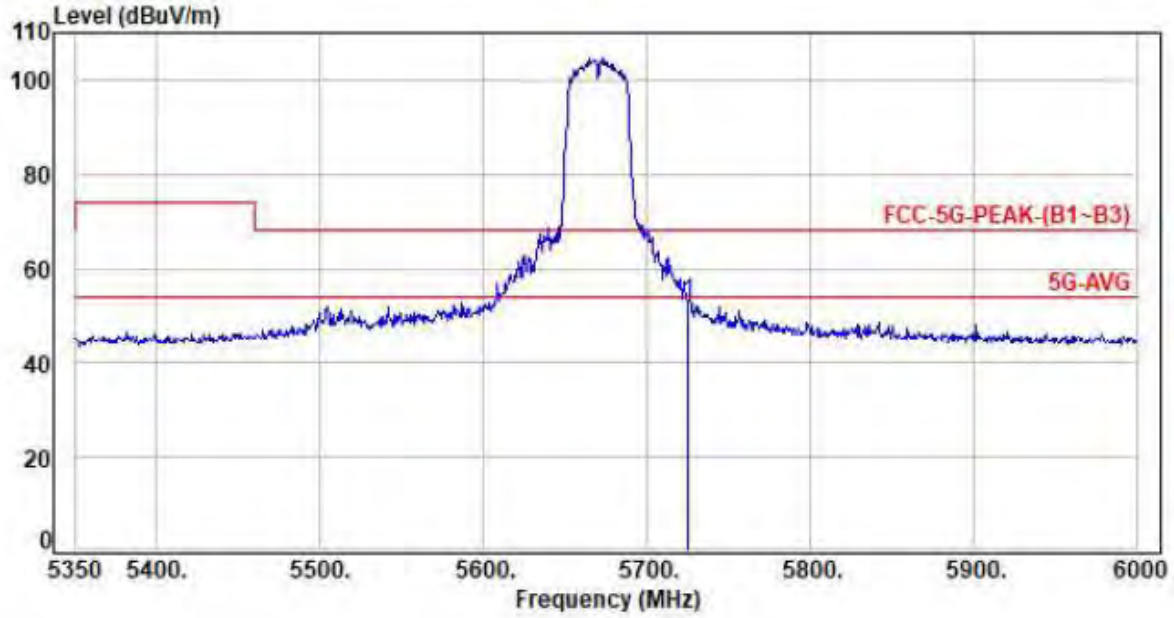
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH134 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	45.91	49.14	68.20	-19.06	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

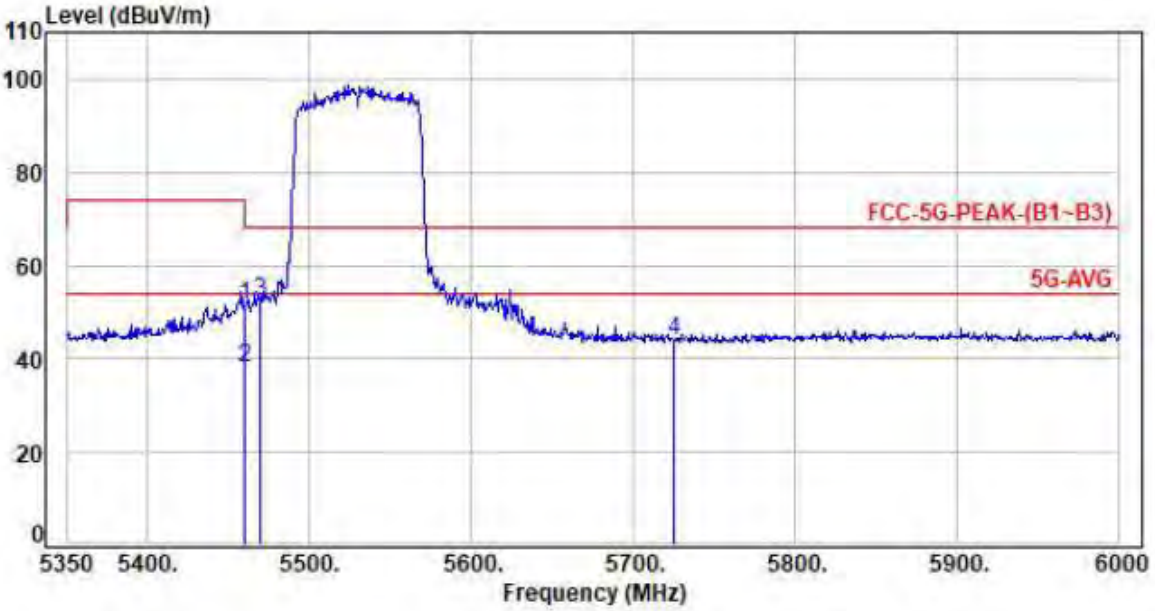
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH134 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.00	3.23	49.67	52.90	68.20	-15.30	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

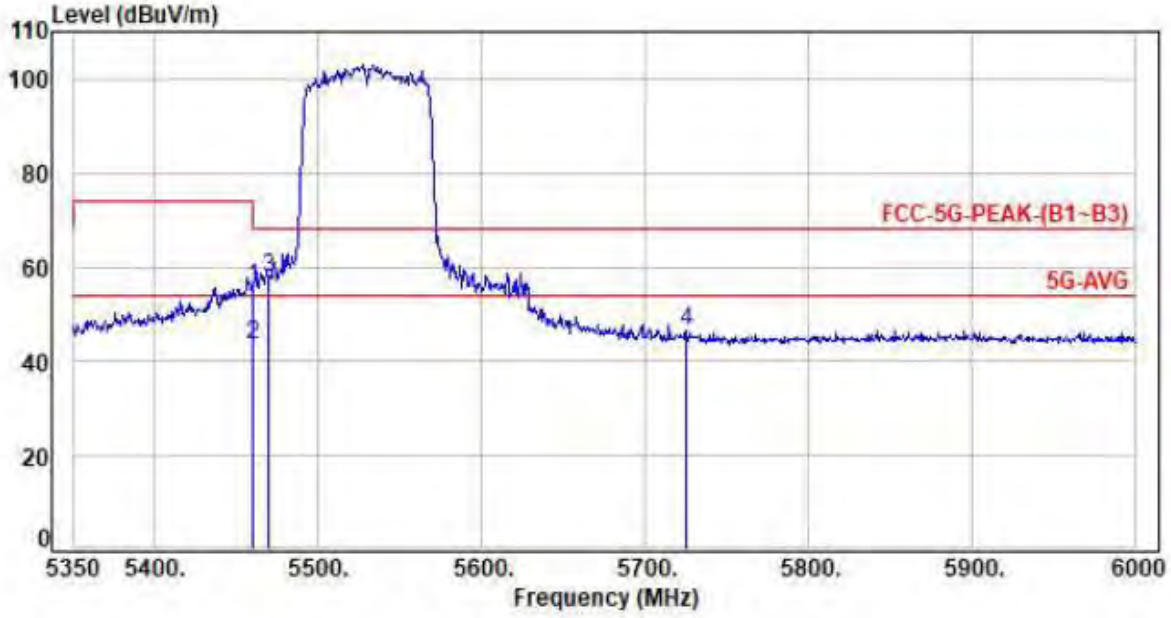
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode5, 802.11ac VHT80 CH106 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	48.88	51.25	74.00	-22.75	Peak	P
2	5460.00	2.37	35.88	38.25	54.00	-15.75	Average	P
3	5470.00	2.39	49.92	52.31	68.20	-15.89	Peak	P
4	5725.00	3.23	40.81	44.04	68.20	-24.16	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

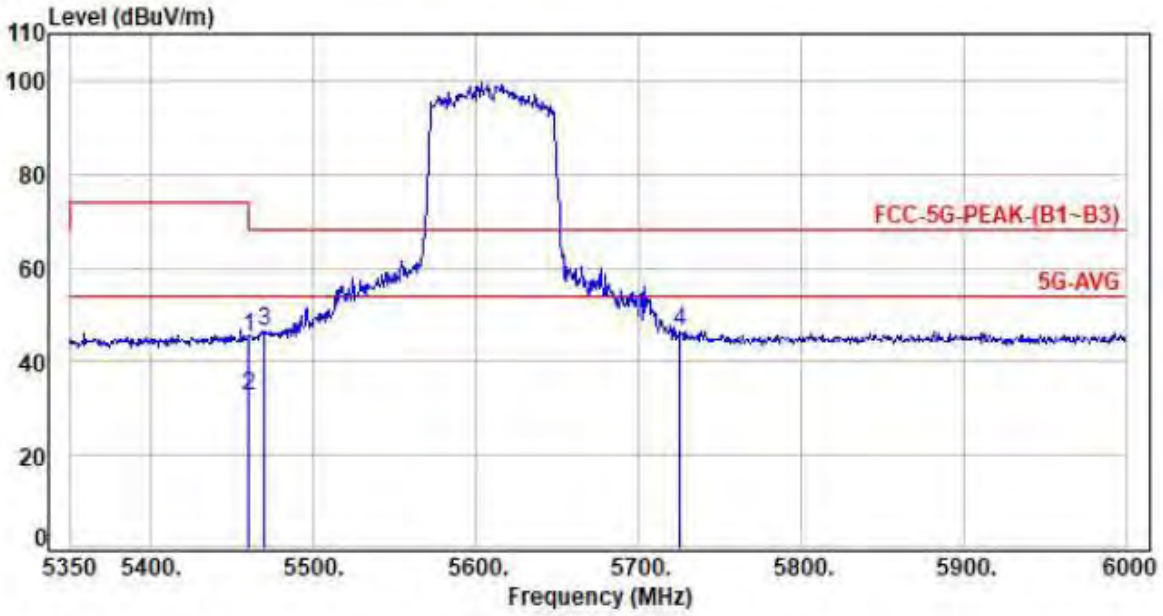
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 5, 802.11ac VHT80 CH106 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	53.46	55.83	74.00	-18.17	Peak	P
2	5460.00	2.37	41.23	43.60	54.00	-10.40	Average	P
3	5470.00	2.39	55.29	57.68	68.20	-10.52	Peak	P
4	5725.00	3.23	43.21	46.44	68.20	-21.76	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

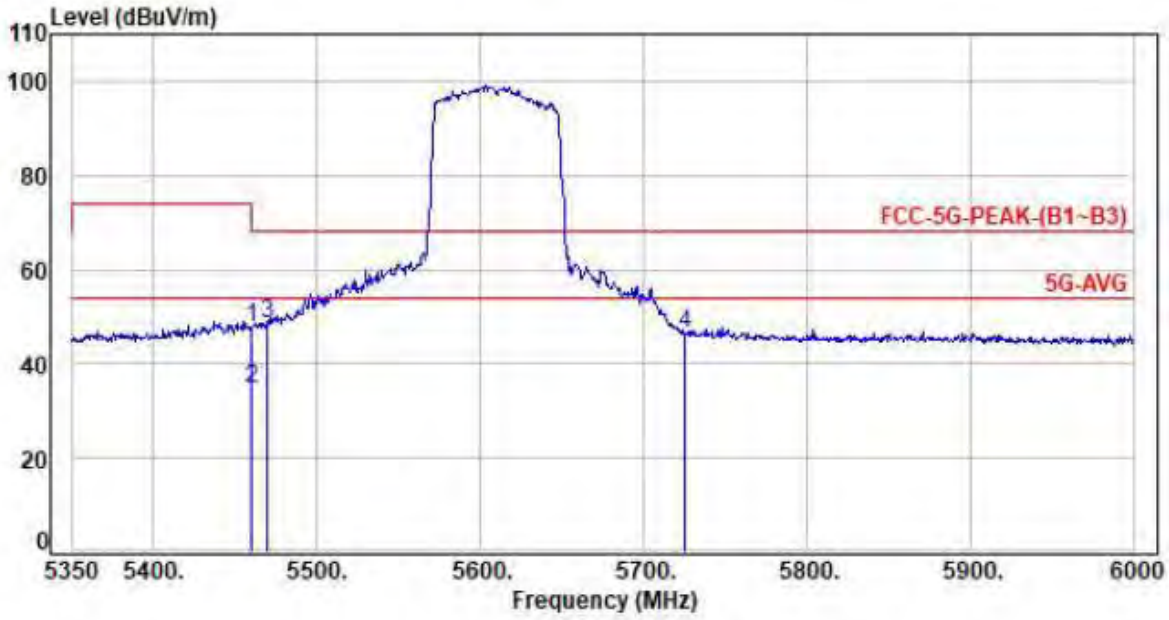
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 5, 802.11ac VHT80 CH122 UNII-2C		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	42.68	45.05	74.00	-28.95	Peak	P
2	5460.00	2.37	30.11	32.48	54.00	-21.52	Average	P
3	5470.00	2.39	44.00	46.39	68.20	-21.81	Peak	P
4	5725.00	3.23	43.22	46.45	68.20	-21.75	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 5, 802.11ac VHT80 CH122 UNII-2C		



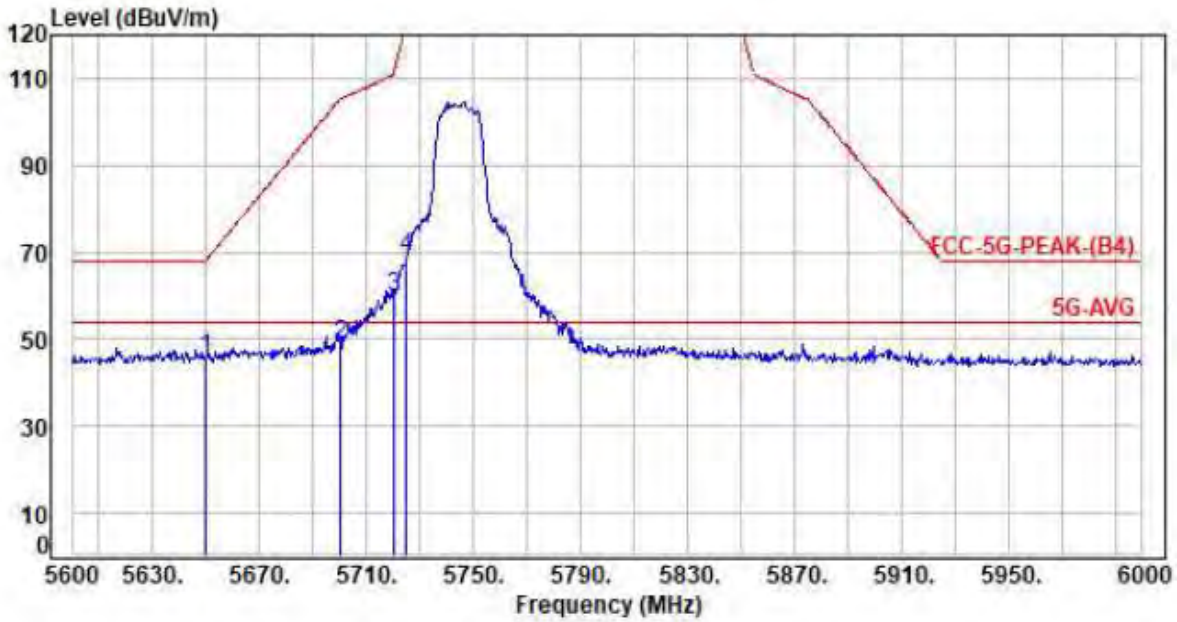
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5460.00	2.37	45.27	47.64	74.00	-26.36	Peak	P
2	5460.00	2.37	32.14	34.51	54.00	-19.49	Average	P
3	5470.00	2.39	46.31	48.70	68.20	-19.50	Peak	P
4	5725.00	3.23	43.00	46.23	68.20	-21.97	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

SISO-Ant A

UNII-3

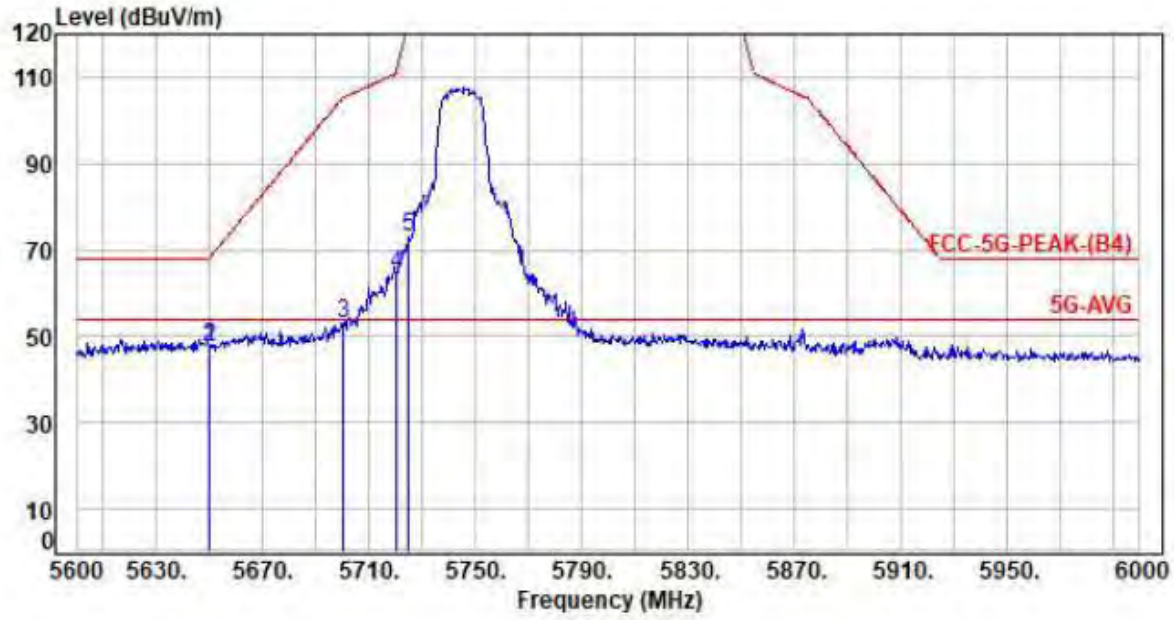
Power	AC120V/60Hz	**Pol/Phase**	VERTICAL
Test Mode	Mode 1, 802.11a CH149 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	42.81	45.68	68.20	-22.52	Peak	P
2	5700.00	3.12	45.76	48.88	105.20	-56.32	Peak	P
3	5720.00	3.22	56.39	59.61	110.80	-51.19	Peak	P
4	5725.00	3.23	65.73	68.96	122.20	-53.24	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

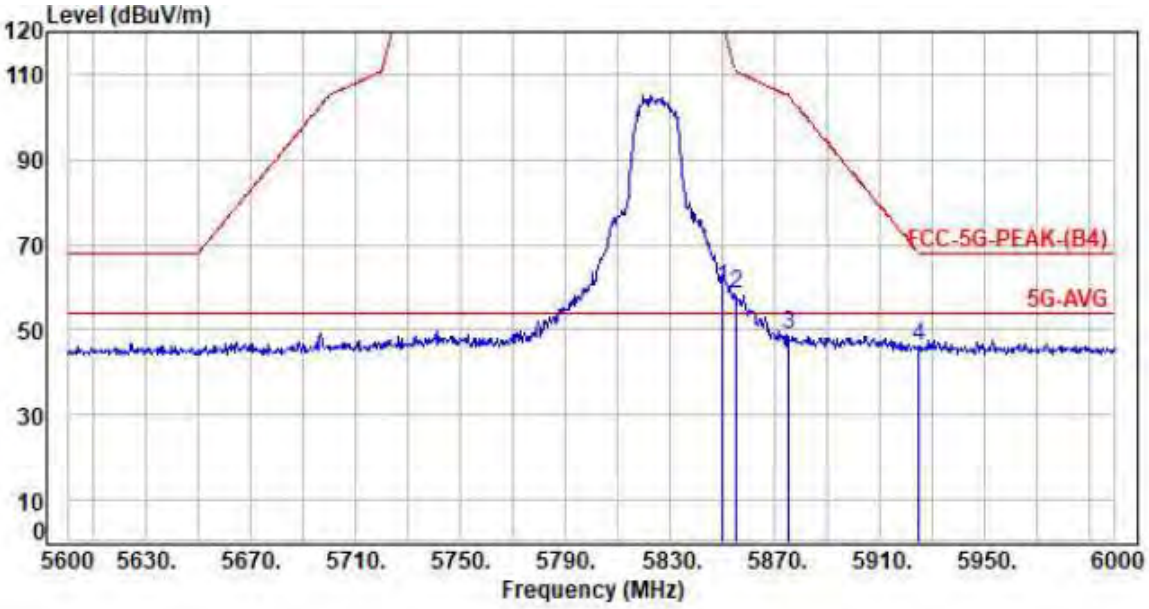
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH149 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	44.54	47.41	68.20	-20.79	Peak	P
2	5650.00	2.87	44.54	47.41	68.20	-20.79	Peak	P
3	5700.00	3.12	49.66	52.78	105.20	-52.42	Peak	P
4	5720.00	3.22	61.14	64.36	110.80	-46.44	Peak	P
5	5725.00	3.23	69.57	72.80	122.20	-49.40	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

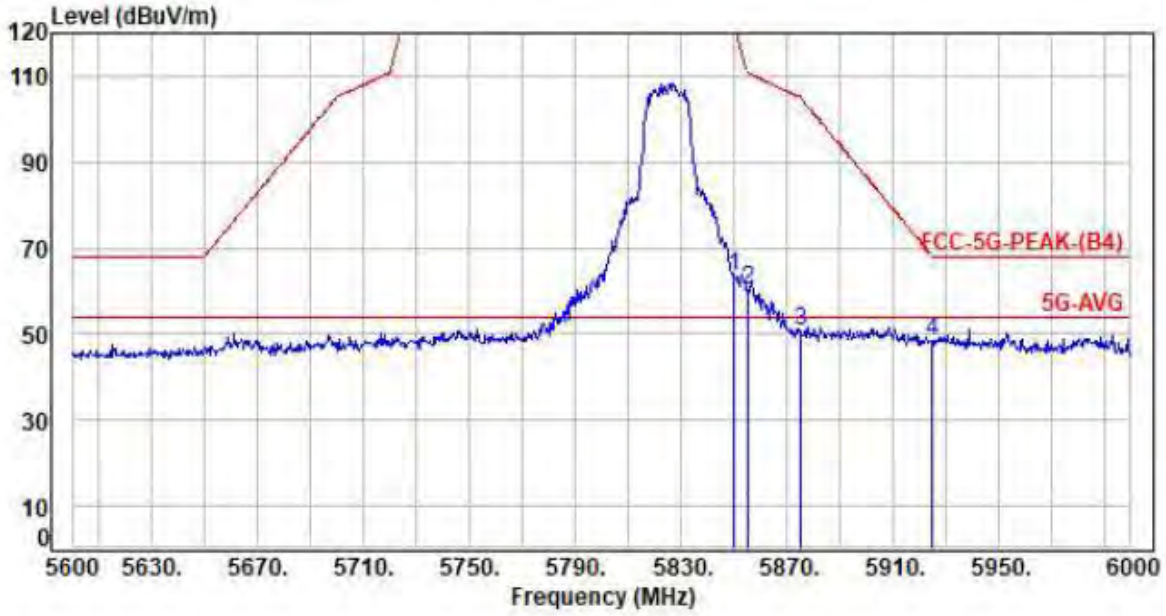
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 1, 802.11a CH165 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	55.90	59.54	122.20	-62.66	Peak	P
2	5855.00	3.64	54.90	58.54	110.80	-52.26	Peak	P
3	5875.00	3.65	45.17	48.82	105.20	-56.38	Peak	P
4	5925.00	3.68	42.33	46.01	68.20	-22.19	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 1, 802.11a CH165 UNII-3		

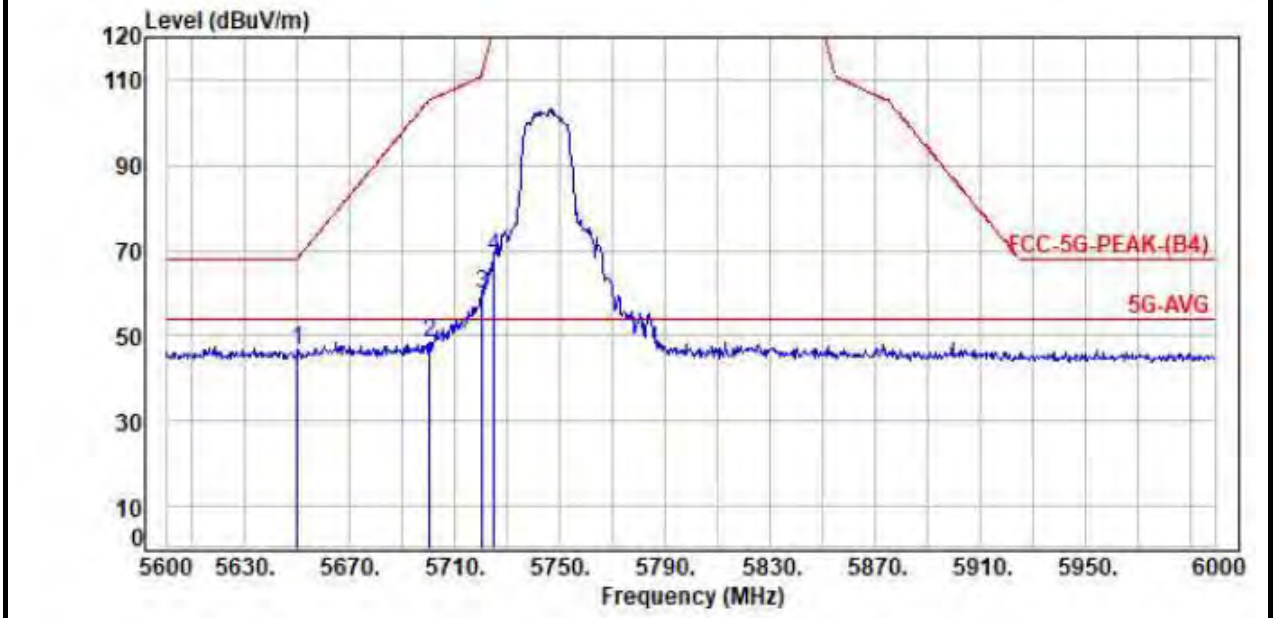


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	59.57	63.21	122.20	-58.99	Peak	P
2	5855.00	3.64	56.40	60.04	110.80	-50.76	Peak	P
3	5875.00	3.65	47.09	50.74	105.20	-54.46	Peak	P
4	5925.00	3.68	44.48	48.16	68.20	-20.04	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

MIMO-UNII-3

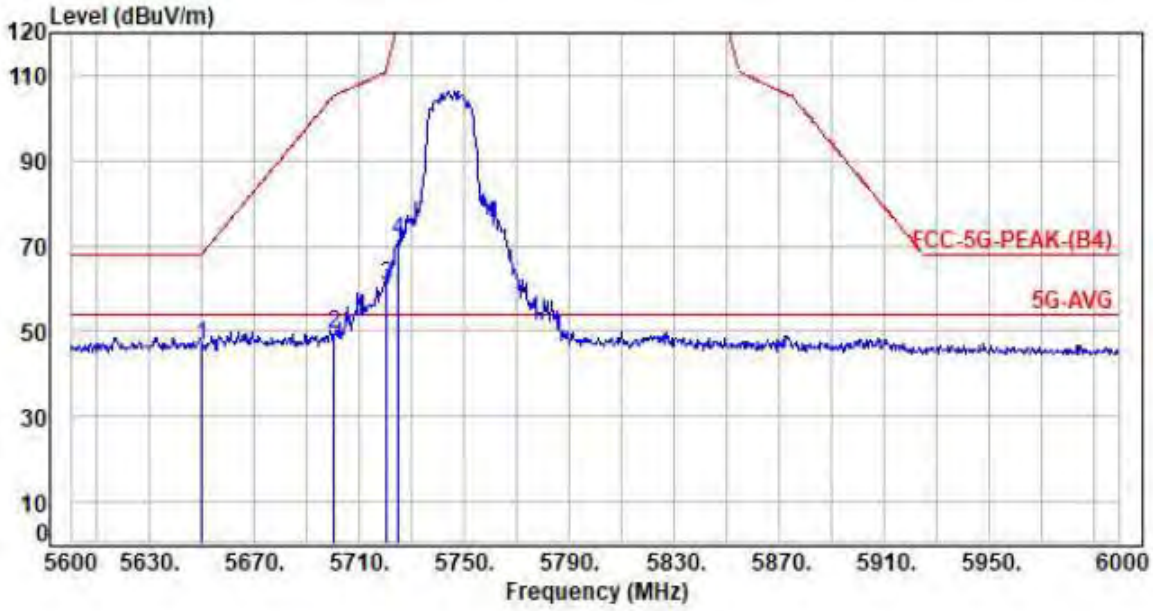
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH149 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	43.48	46.35	68.20	-21.85	Peak	P
2	5700.00	3.12	45.34	48.46	105.20	-56.74	Peak	P
3	5720.00	3.22	56.64	59.86	110.80	-50.94	Peak	P
4	5725.00	3.23	65.08	68.31	122.20	-53.89	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

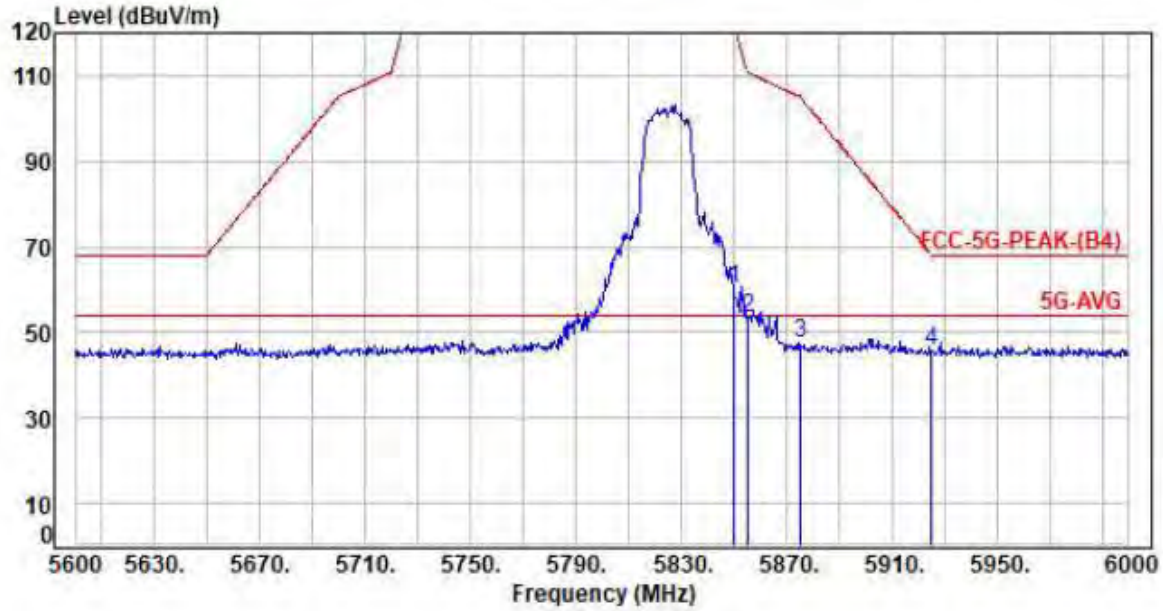
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH149 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	43.47	46.34	68.20	-21.86	Peak	P
2	5700.00	3.12	46.22	49.34	105.20	-55.86	Peak	P
3	5720.00	3.22	57.66	60.88	110.80	-49.92	Peak	P
4	5725.00	3.23	68.04	71.27	122.20	-50.93	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

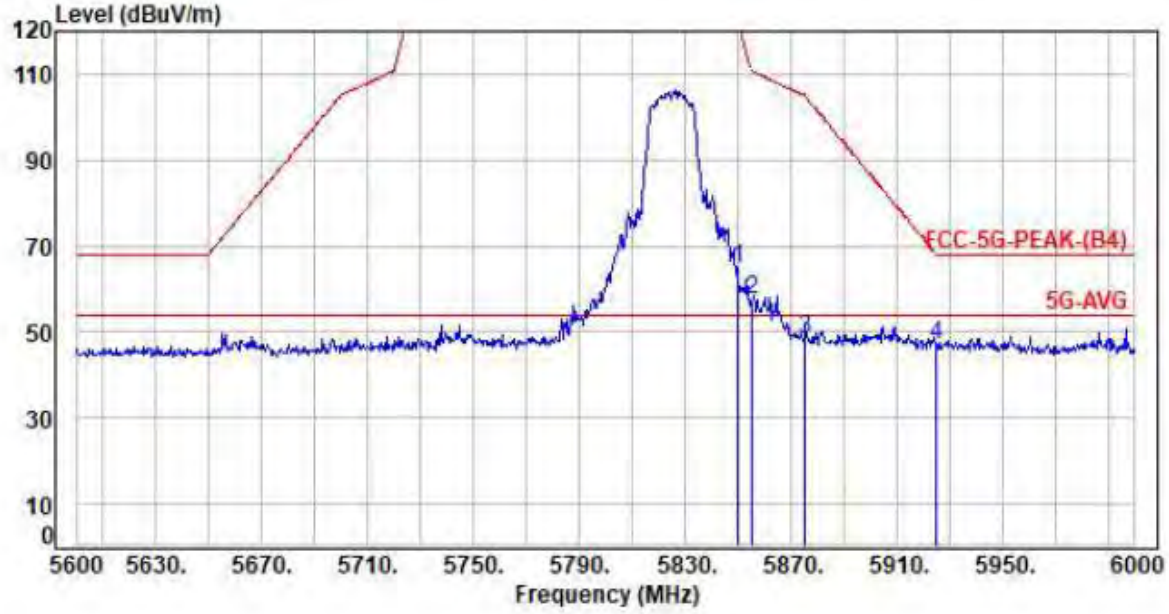
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 3, 802.11ac VHT20 CH165 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	56.70	60.34	122.20	-61.86	Peak	P
2	5855.00	3.64	49.80	53.44	110.80	-57.36	Peak	P
3	5875.00	3.65	43.73	47.38	105.20	-57.82	Peak	P
4	5925.00	3.68	42.09	45.77	68.20	-22.43	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

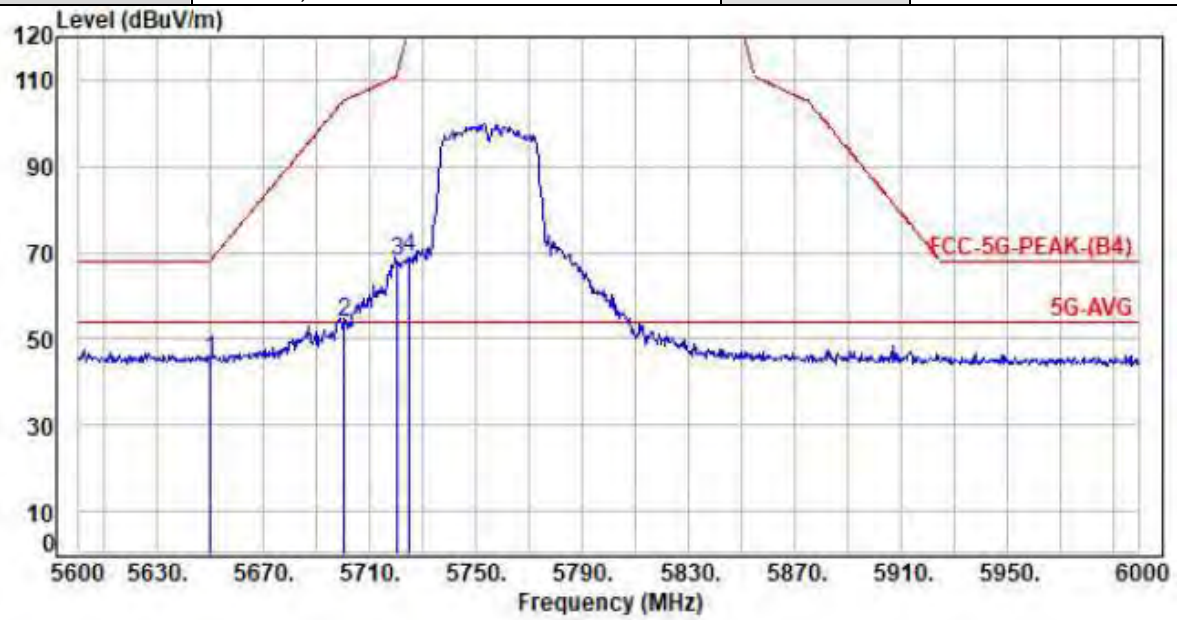
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 3, 802.11ac VHT20 CH165 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	61.28	64.92	122.20	-57.28	Peak	P
2	5855.00	3.64	53.94	57.58	110.80	-53.22	Peak	P
3	5875.00	3.65	44.64	48.29	105.20	-56.91	Peak	P
4	5925.00	3.68	43.11	46.79	68.20	-21.41	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

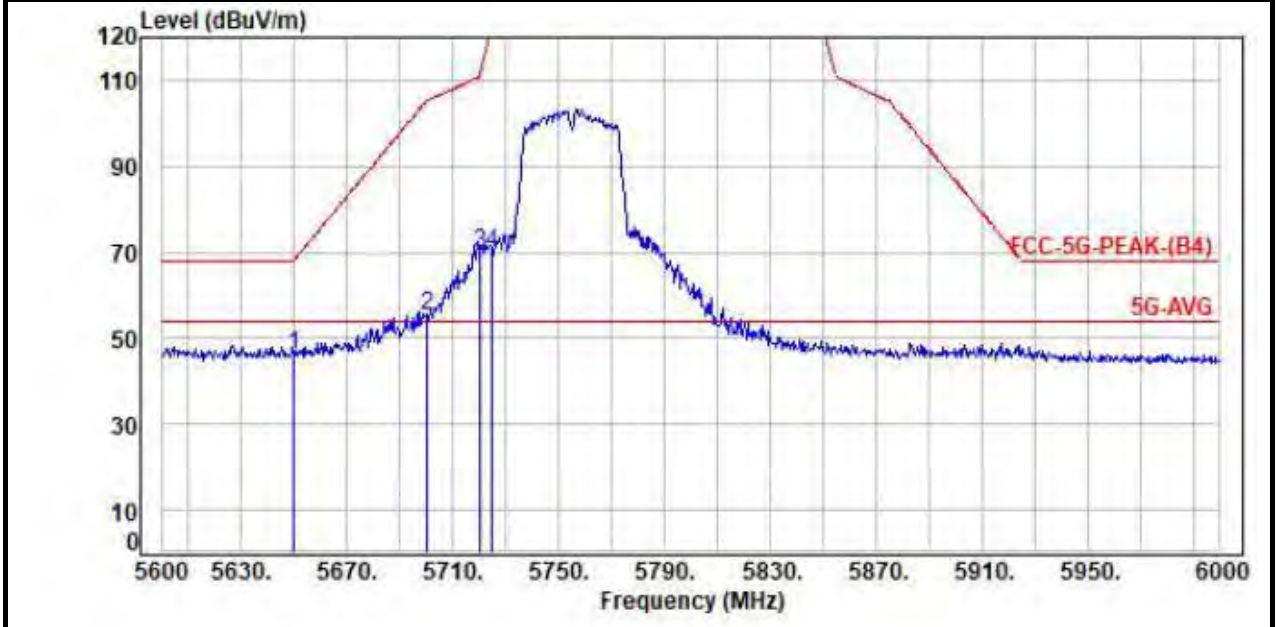
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH151 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	42.27	45.14	68.20	-23.06	Peak	P
2	5700.00	3.12	50.62	53.74	105.20	-51.46	Peak	P
3	5720.00	3.22	64.76	67.98	110.80	-42.82	Peak	P
4	5725.00	3.23	65.64	68.87	122.20	-53.33	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

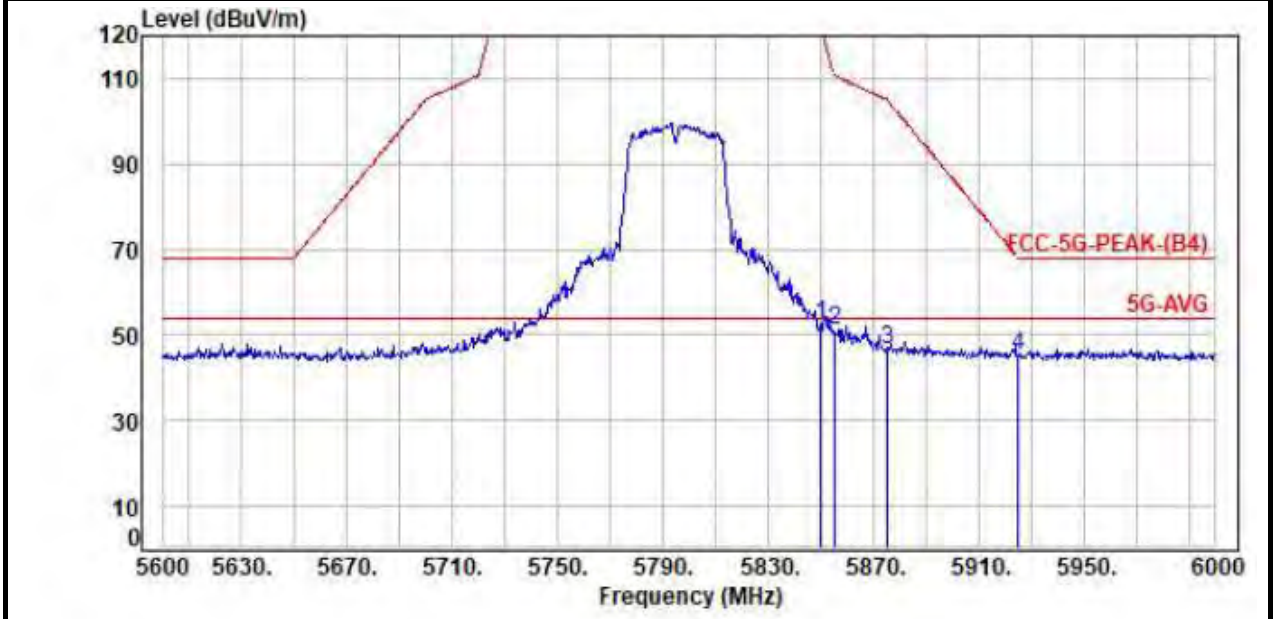
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode4, 802.11ac VHT40 CH151 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	43.22	46.09	68.20	-22.11	Peak	P
2	5700.00	3.12	52.24	55.36	105.20	-49.84	Peak	P
3	5720.00	3.22	66.63	69.85	110.80	-40.95	Peak	P
4	5725.00	3.23	66.50	69.73	122.20	-52.47	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

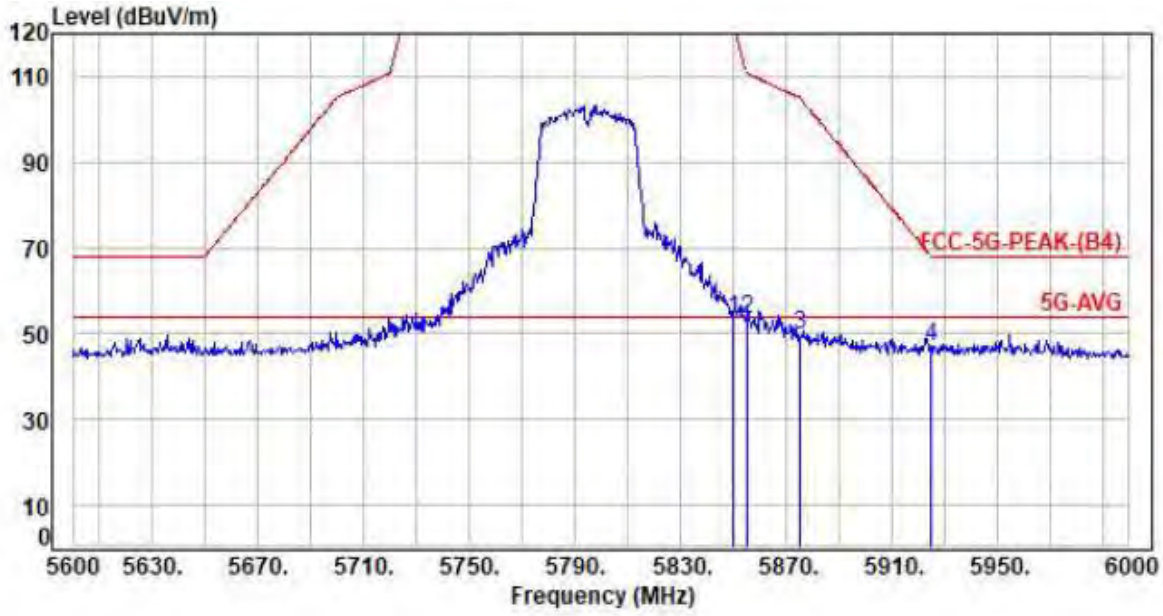
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 4, 802.11ac VHT40 CH159 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	48.98	52.62	122.20	-69.58	Peak	P
2	5855.00	3.64	47.39	51.03	110.80	-59.77	Peak	P
3	5875.00	3.65	42.88	46.53	105.20	-58.67	Peak	P
4	5925.00	3.68	41.50	45.18	68.20	-23.02	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

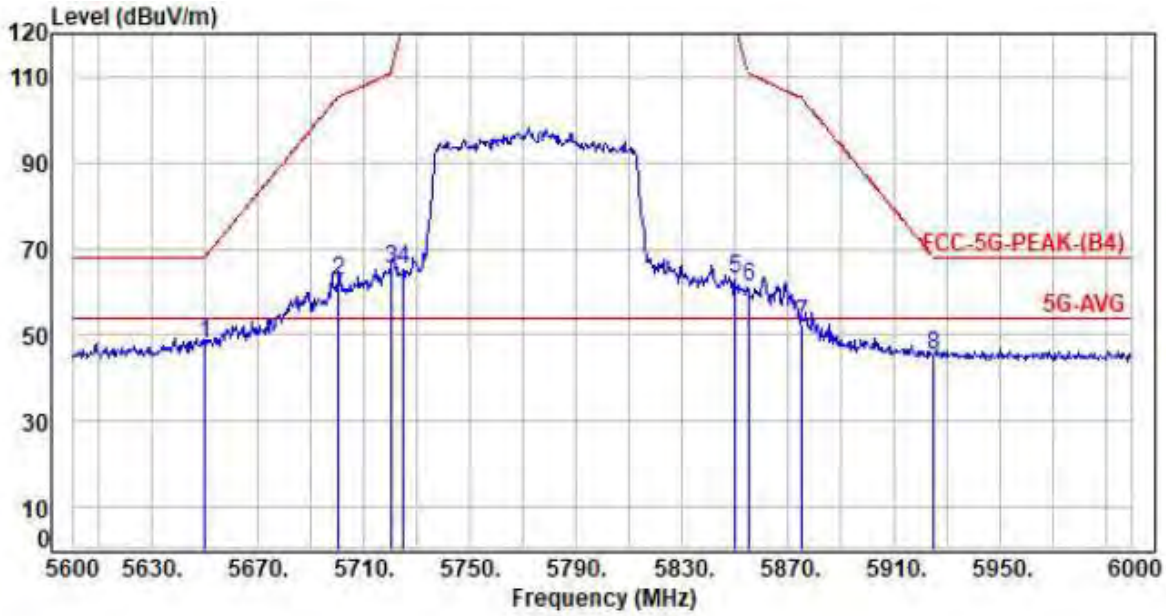
Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode 4, 802.11ac VHT40 CH159 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.00	3.64	49.93	53.57	122.20	-68.63	Peak	P
2	5855.00	3.64	49.94	53.58	110.80	-57.22	Peak	P
3	5875.00	3.65	46.27	49.92	105.20	-55.28	Peak	P
4	5925.00	3.68	43.30	46.98	68.20	-21.22	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

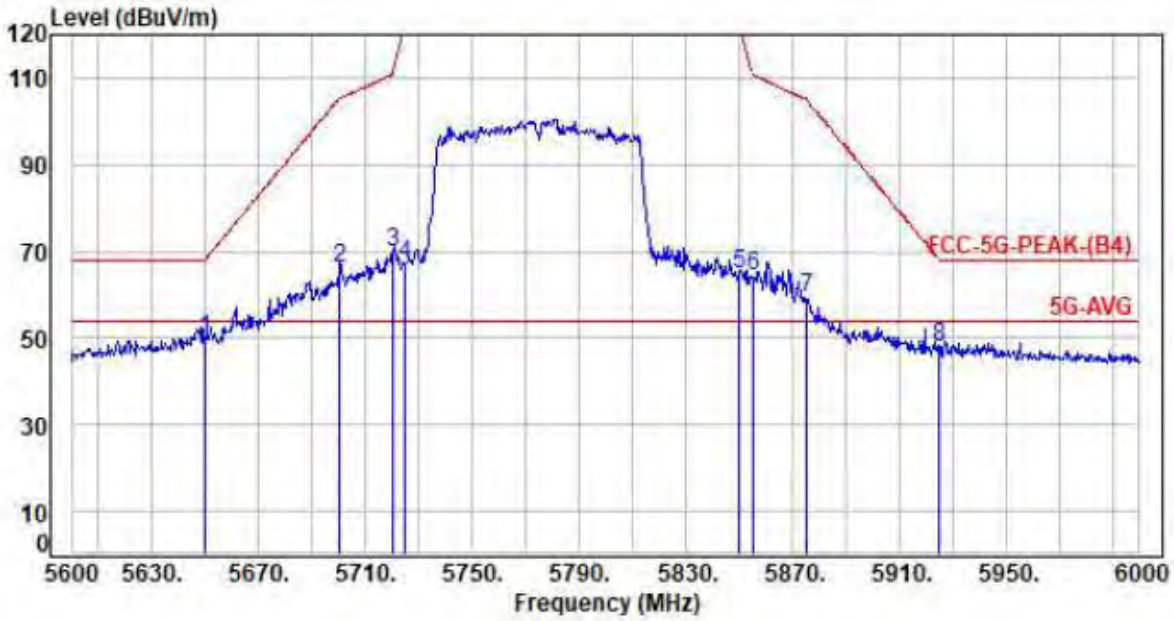
Power	AC120V/60Hz	Pol/Phase	VERTICAL
Test Mode	Mode 5, 802.11ac VHT80 CH155 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	44.95	47.82	68.20	-20.38	Peak	P
2	5700.00	3.12	59.51	62.63	105.20	-42.57	Peak	P
3	5720.00	3.22	62.18	65.40	110.80	-45.40	Peak	P
4	5725.00	3.23	62.20	65.43	122.20	-56.77	Peak	P
5	5850.00	3.64	59.22	62.86	122.20	-59.34	Peak	P
6	5855.00	3.64	57.50	61.14	110.80	-49.66	Peak	P
7	5875.00	3.65	48.67	52.32	105.20	-52.88	Peak	P
8	5925.00	3.68	41.30	44.98	68.20	-23.22	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

Power	AC120V/60Hz	Pol/Phase	HORIZONTAL
Test Mode	Mode5, 802.11ac VHT80 CH155 UNII-3		



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.00	2.87	46.77	49.64	68.20	-18.56	Peak	P
2	5700.00	3.12	62.93	66.05	105.20	-39.15	Peak	P
3	5720.00	3.22	66.56	69.78	110.80	-41.02	Peak	P
4	5725.00	3.23	63.82	67.05	122.20	-55.15	Peak	P
5	5850.00	3.64	61.12	64.76	122.20	-57.44	Peak	P
6	5855.00	3.64	60.59	64.23	110.80	-46.57	Peak	P
7	5875.00	3.65	55.51	59.16	105.20	-46.04	Peak	P
8	5925.00	3.68	44.29	47.97	68.20	-20.23	Peak	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

7. On Time, Duty Cycle and Measurement methods

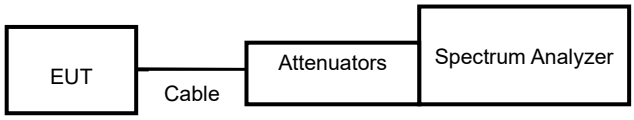
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout



7.4. Test Result and Data

1TX

Modulation Mode	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11a	1.405	1.450	96.90%

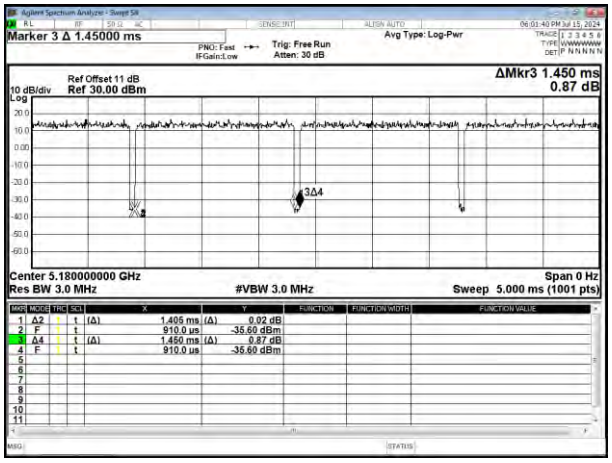
2TX

Modulation Mode	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11ac VHT20	1.324	1.368	96.78%
802.11ac VHT40	0.658	0.704	93.47%
802.11ac VHT80	0.327	0.376	86.97%

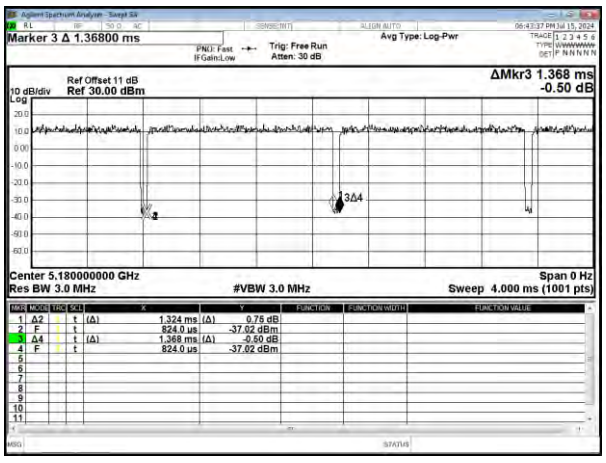
7.5. Measurement Methods

26 dB and 6dB Emission BW	KDB 789033 v02r01, Section C
99% Occupied BW	KDB 789033 v02r01, Section D
Conducted Output Power	KDB 789033 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 v02r01, Sections G and H

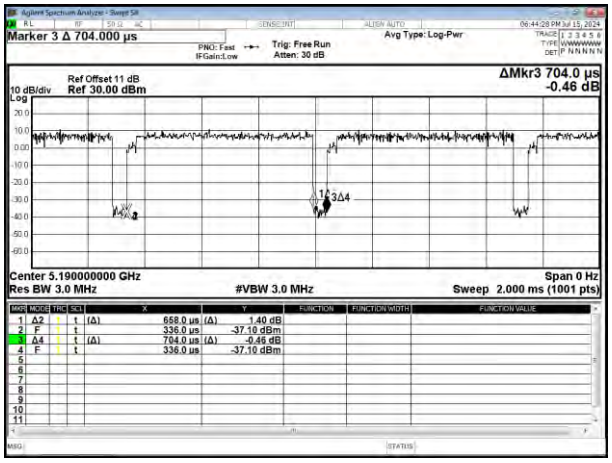
Modulation Type: 802.11a



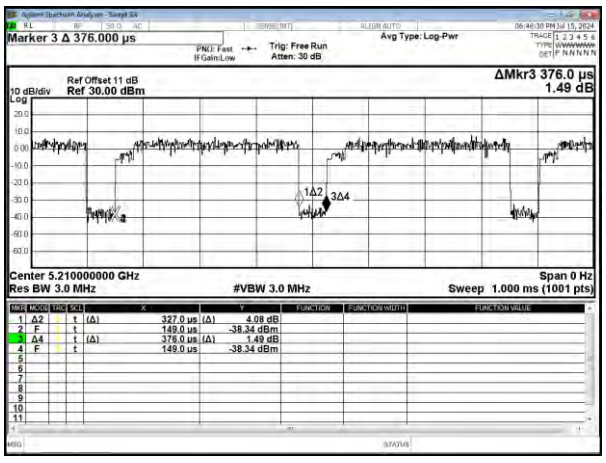
Modulation Type: 802.11ac VHT20



Modulation Type: 802.11ac VHT40



Modulation Type: 802.11ac VHT80



8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

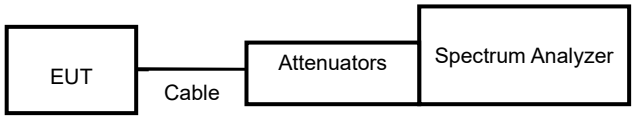
FCC §15.407

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.2. 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 set to100KHz, the VBW >= 3 x RBW, peak detector and max hold.

8.3. Test Setup Layout



8.4. Test Result and Data (6dB Bandwidth)

In the 5.8GHz Band

SISO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11a	149	5745	15.18	12.20	0.50
	157	5785	13.93	15.15	0.50
	165	5825	15.16	15.05	0.50

MIMO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11ac VHT20	149	5745	11.98	15.15	0.50
	157	5785	16.37	15.13	0.50
	165	5825	14.16	16.71	0.50
802.11ac VHT40	151	5755	33.95	35.21	0.50
	159	5795	35.18	35.11	0.50
802.11ac VHT80	155	5775	75.23	75.24	0.50

8.5. Test Result and Data (99% Occupied Bandwidth)

In the 5.8GHz Band

SISO

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
802.11a	149	5745	16.66	16.53
	157	5785	16.51	16.64
	165	5825	16.57	16.55

MIMO

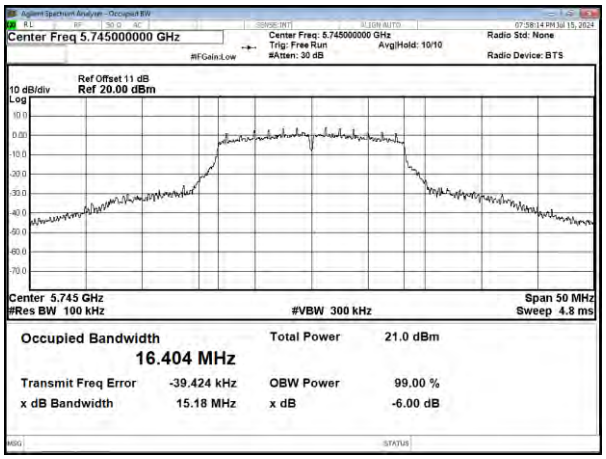
Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
802.11ac VHT20	149	5745	17.67	17.59
	157	5785	17.63	17.58
	165	5825	17.66	17.58
802.11ac VHT40	151	5755	36.07	36.09
	159	5795	36.09	36.05
802.11ac VHT80	155	5775	75.50	75.18

6dB Bandwidth

SISO-ANT A

Modulation Type: 802.11a

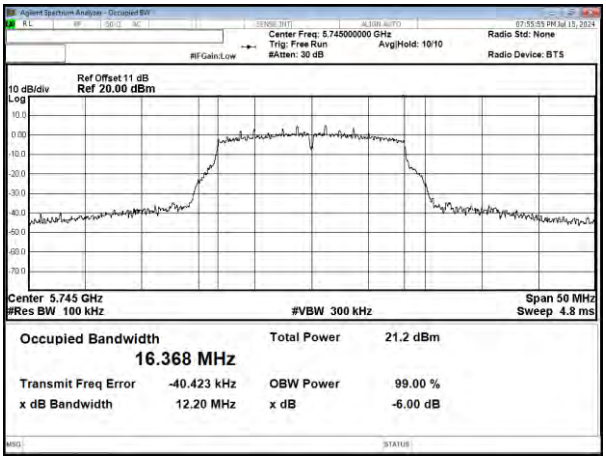
CH149



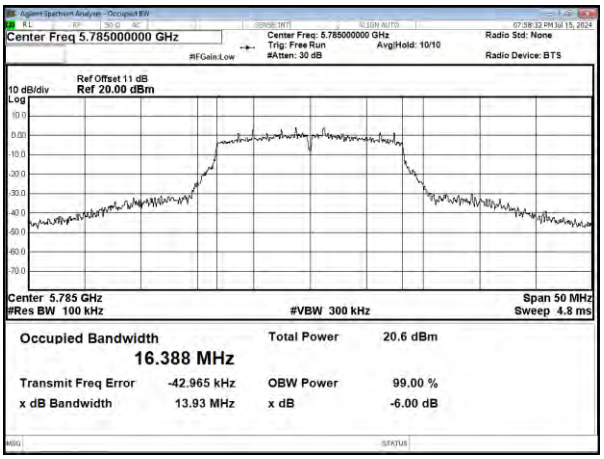
SISO-ANT B

Modulation Type: 802.11a

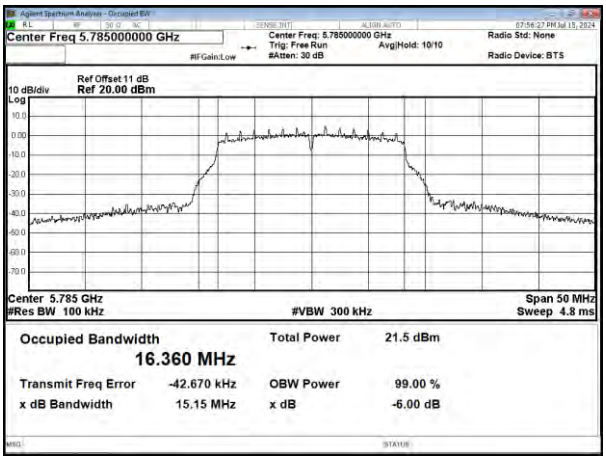
CH149



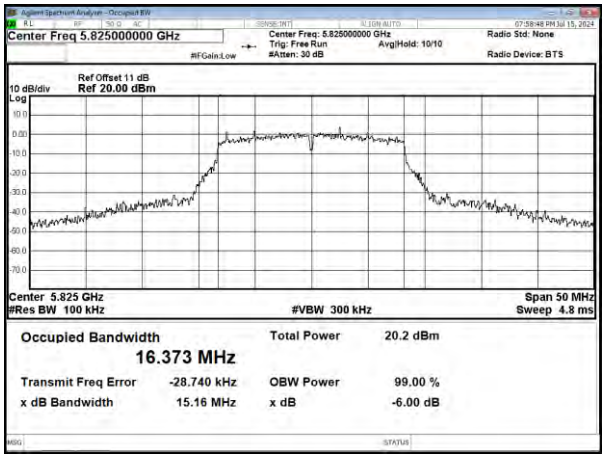
CH157



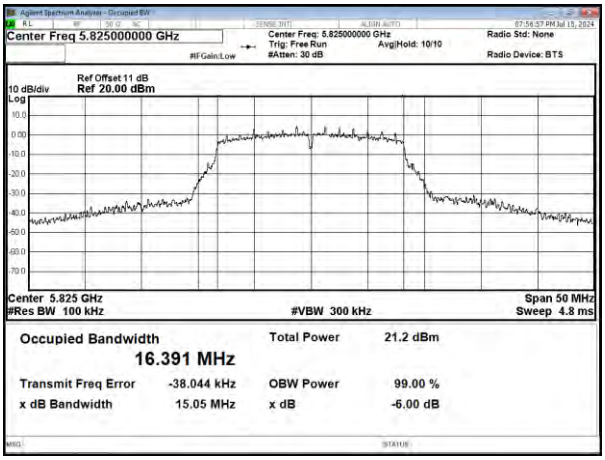
CH157



CH165

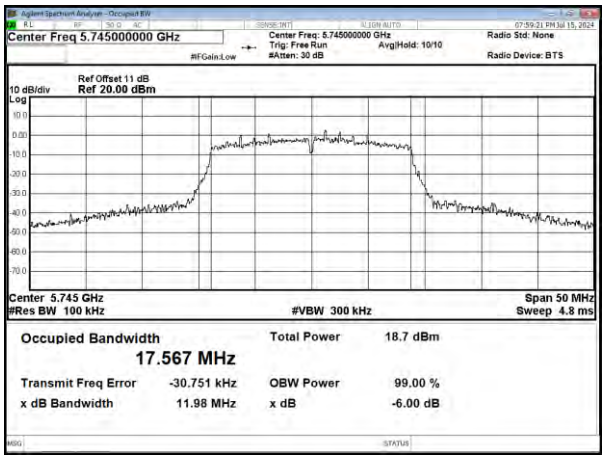


CH165

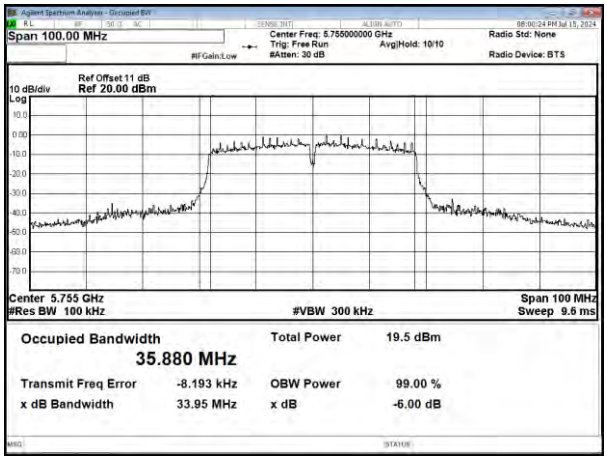


6dB Bandwidth
MIMO (ANT A)

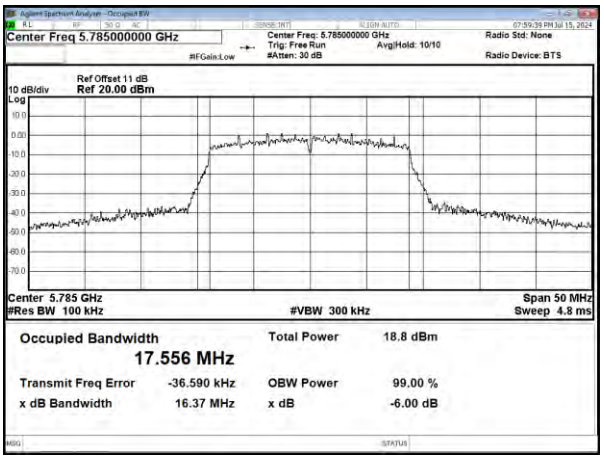
Modulation Type: 802.11ac, VHT20
CH149



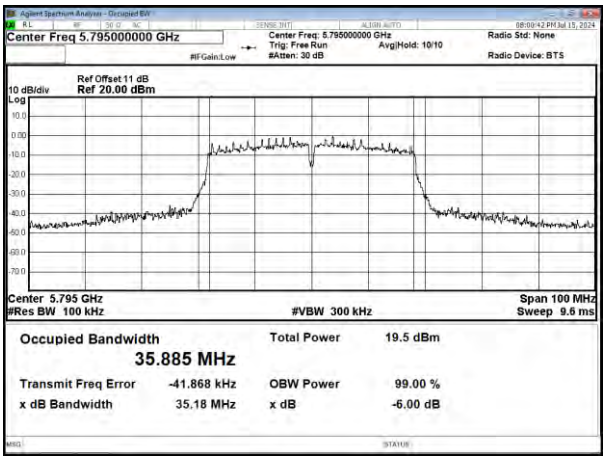
Modulation Type: 802.11ac, VHT40
CH151



CH157

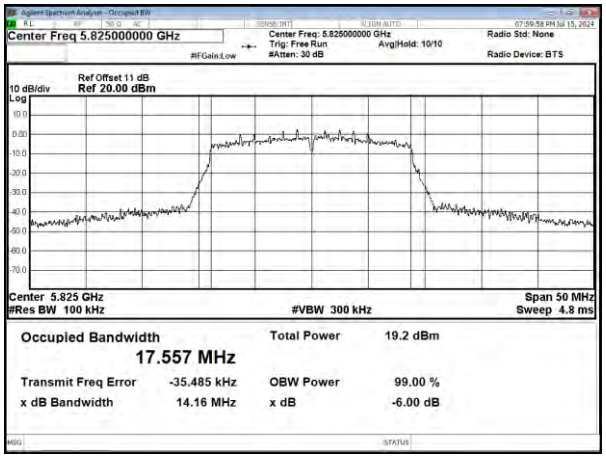


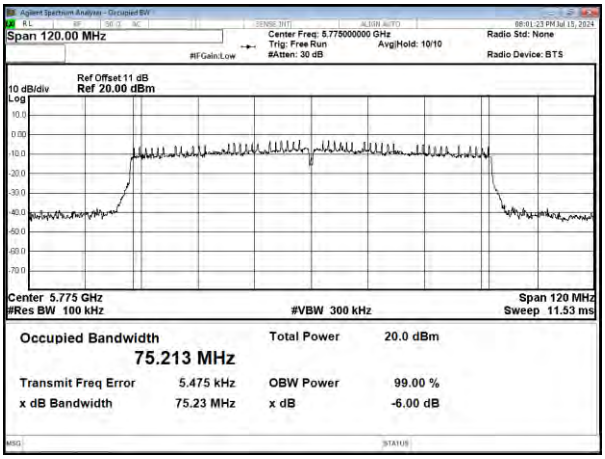
CH159



Modulation Type: 802.11ac, VHT80
CH155

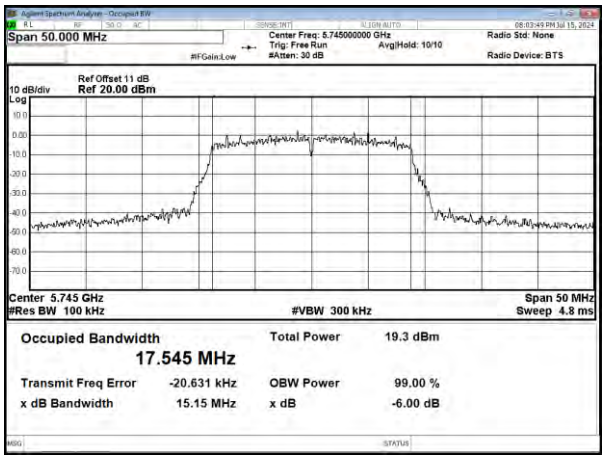
CH165



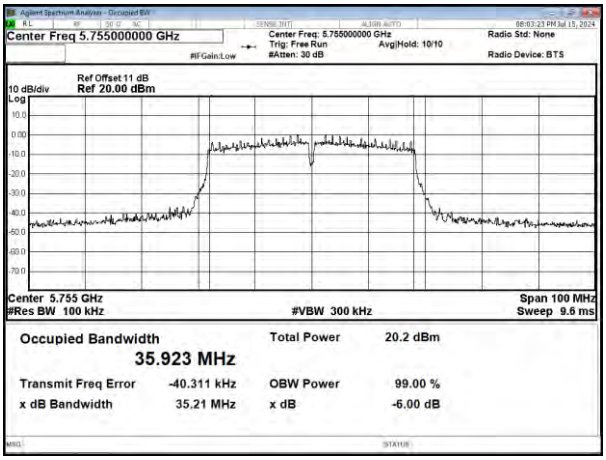


6dB Bandwidth
MIMO (ANT B)

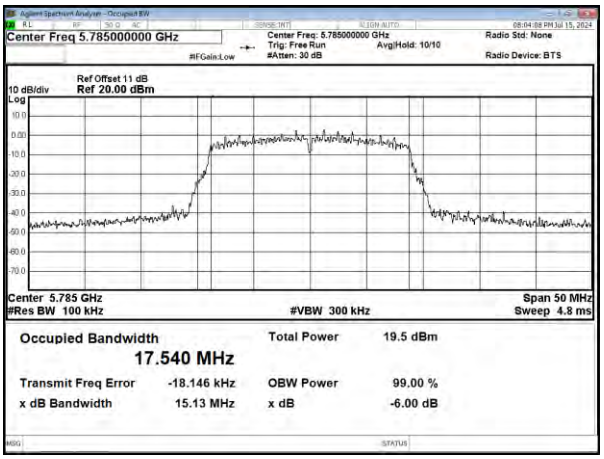
Modulation Type: 802.11ac, VHT20
CH149



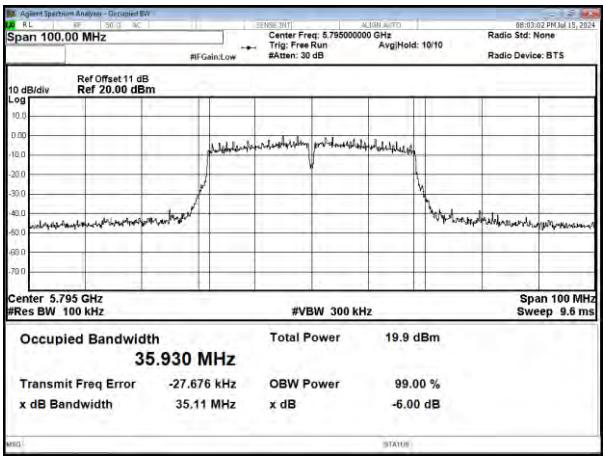
Modulation Type: 802.11ac, VHT40
CH151



CH157

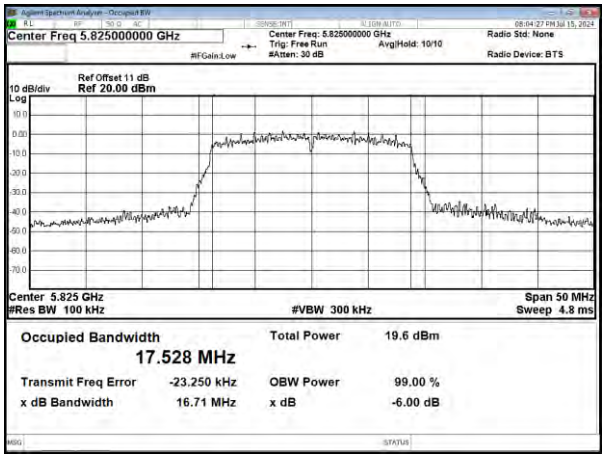


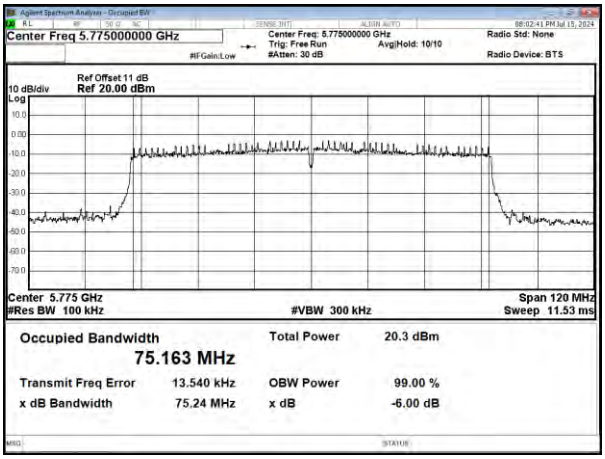
CH159



Modulation Type: 802.11ac, VHT80
CH155

CH165



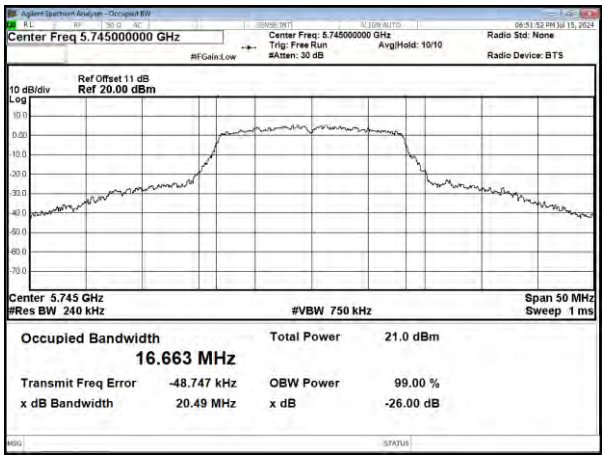


99% Occupied Bandwidth

SISO-ANT A

Modulation Type: 802.11a

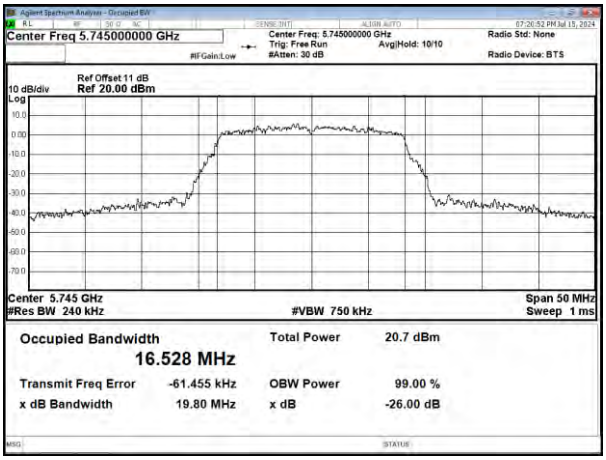
CH149



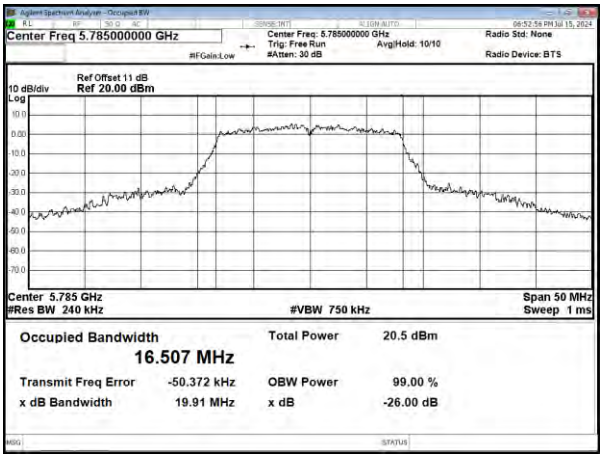
SISO-ANT B

Modulation Type: 802.11a

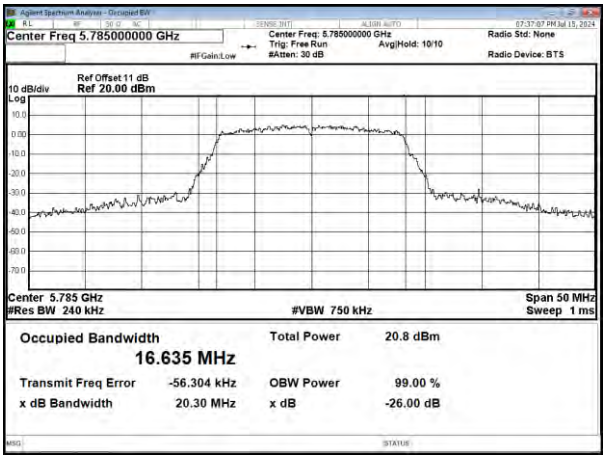
CH149



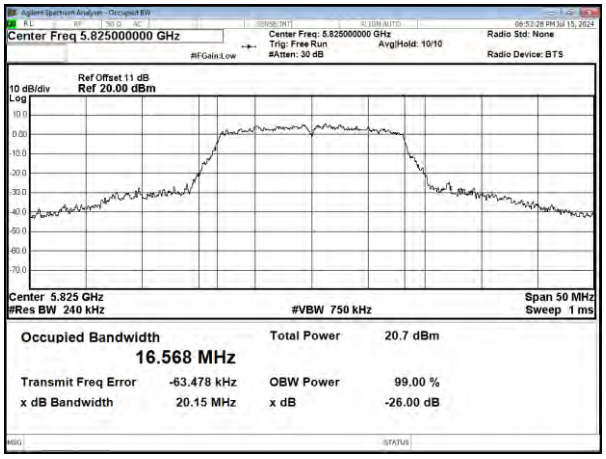
CH157



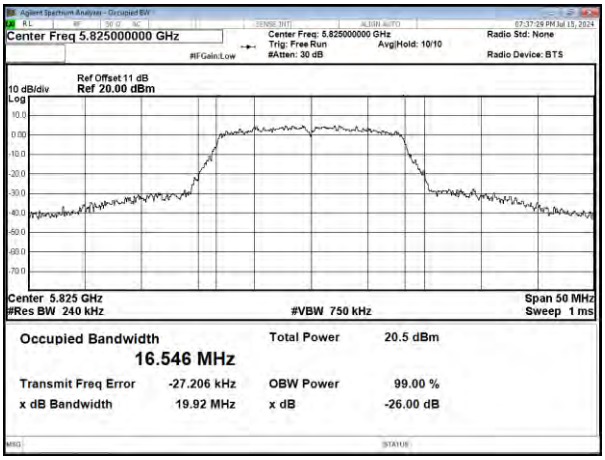
CH157



CH165

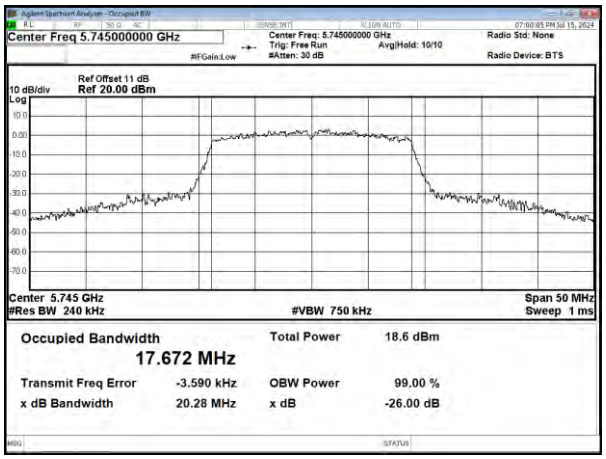


CH165

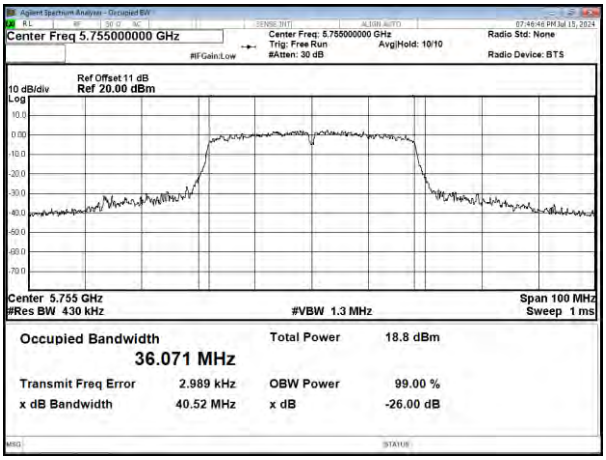


99% Occupied Bandwidth
MIMO (ANT A)

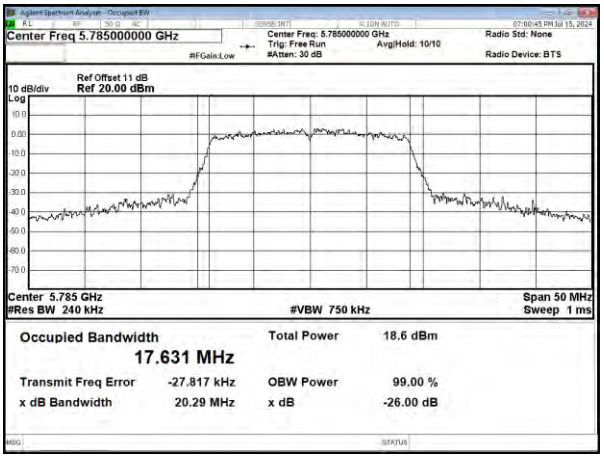
Modulation Type: 802.11ac, VHT20
CH149



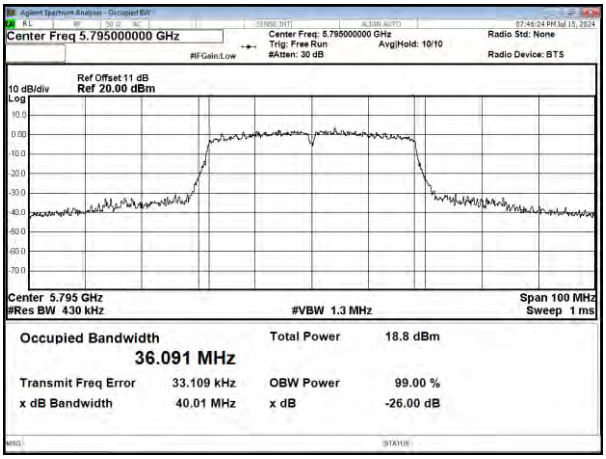
Modulation Type: 802.11ac, VHT40
CH151



CH157

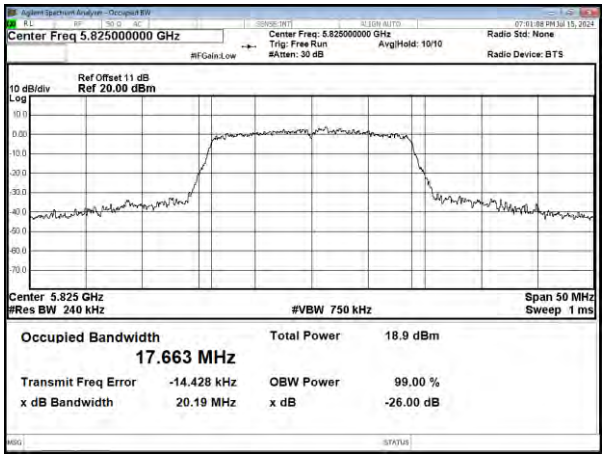


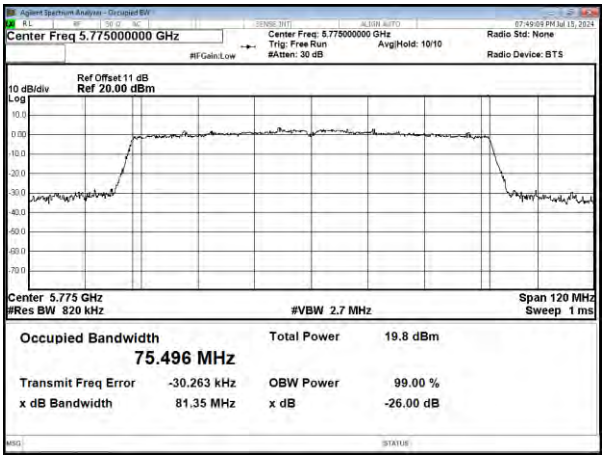
CH159



Modulation Type: 802.11ac, VHT80
CH155

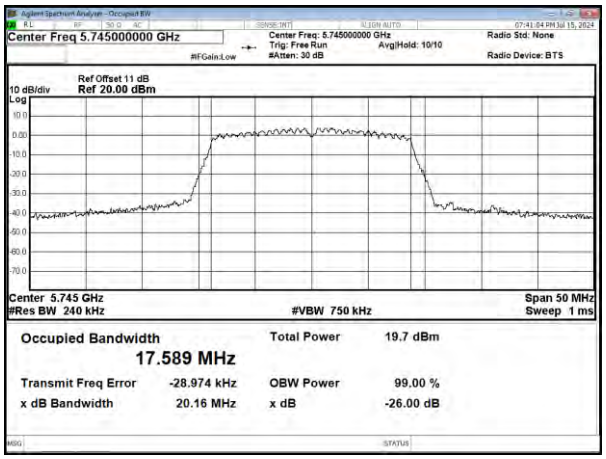
CH165



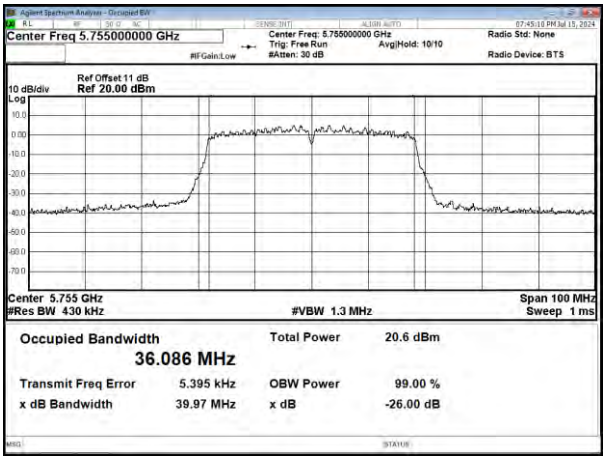


99% Occupied Bandwidth
MIMO (ANT B)

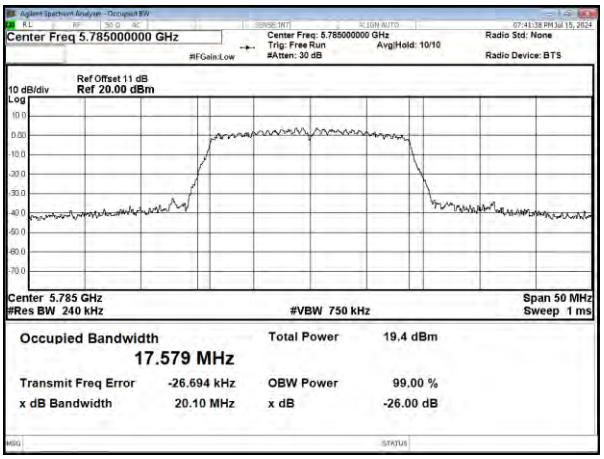
Modulation Type: 802.11ac, VHT20
CH149



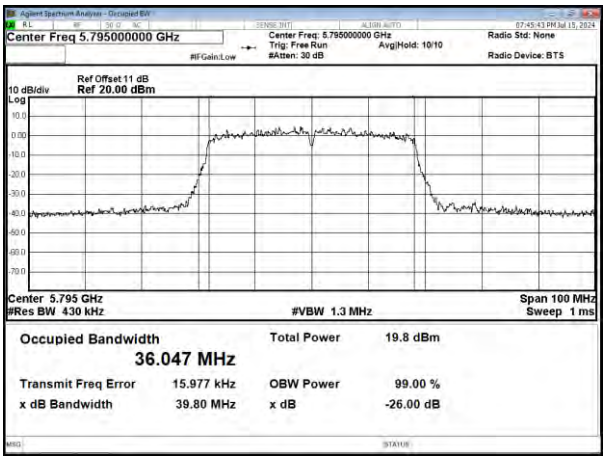
Modulation Type: 802.11ac, VHT40
CH151



CH157

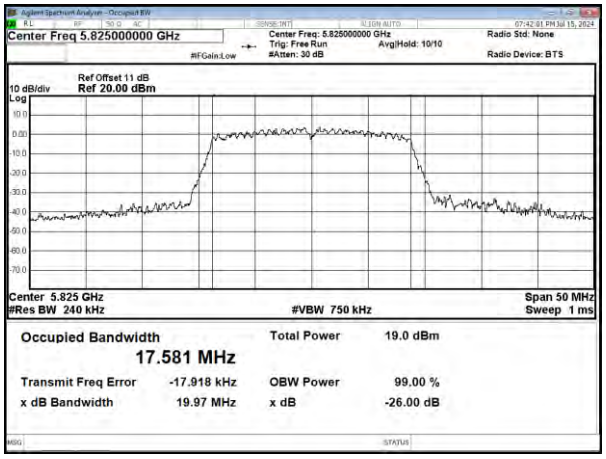


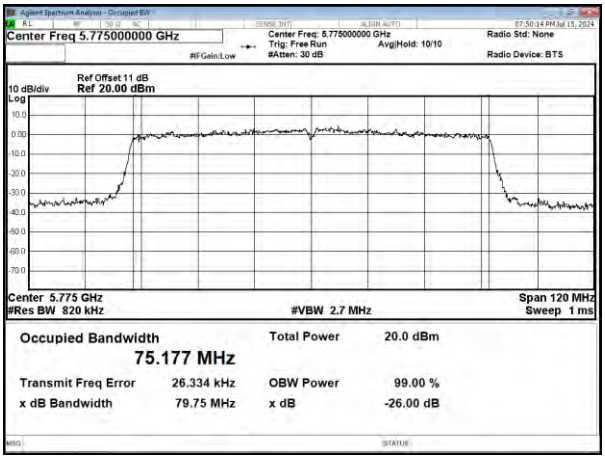
CH159



Modulation Type: 802.11ac, VHT80
CH155

CH165





9. 26dB Bandwidth & 99% Occupied Bandwidth

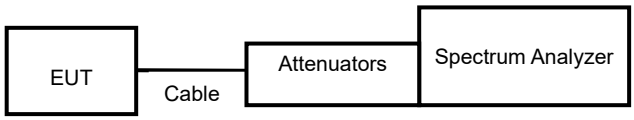
9.1. Test Limit

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 >= 3 x RBW, peak detector and max hold.

9.3. Test Setup Layout



9.4. Test Result and Data (26dB Bandwidth)

SISO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	20.20	20.12
	44	5220	19.86	20.27
	48	5240	20.20	20.17

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	20.27	20.00
	60	5300	20.20	20.17
	64	5320	19.85	20.10

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	20.07	20.08
	116	5580	20.16	20.18
	140	5700	20.55	19.97

MIMO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	36	5180	20.27	20.14
	44	5220	20.41	20.15
	48	5240	20.15	20.2
802.11ac VHT40	38	5190	40.26	39.7
	46	5230	40.48	39.8
802.11ac VHT80	42	5210	81.17	80.19

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	52	5260	20.27	20.05
	60	5300	20.4	20.12
	64	5320	20.18	20.18
802.11ac VHT40	54	5270	40.21	39.92
	62	5310	40.4	39.74
802.11ac VHT80	58	5290	81.04	80.03

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	100	5500	20.31	20.07
	116	5580	20.16	20.11
	140	5700	20.4	20.04
802.11ac VHT40	102	5510	40.14	39.65
	118	5590	40.56	40.15
	134	5670	40.19	39.69
802.11ac VHT80	106	5530	81.34	80.58
	122	5610	81.1	80.08

9.5. Test Result and Data (99% Occupied Bandwidth)

SISO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	16.63	16.65
	44	5220	16.57	16.60
	48	5240	16.63	16.56

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	16.67	16.57
	60	5300	16.58	16.60
	64	5320	16.50	16.64

In the 5.5G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	16.51	16.55
	116	5580	16.63	16.63
	140	5700	16.70	16.57

MIMO

In the 5.2G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	36	5180	17.62	17.56
	44	5220	17.57	17.59
	48	5240	17.62	17.60
802.11ac VHT40	38	5190	36.05	36.04
	46	5230	36.04	36.12
802.11ac VHT80	42	5210	75.51	75.20

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	52	5260	17.62	17.55
	60	5300	17.65	17.56
	64	5320	17.62	17.58
802.11ac VHT40	54	5270	36.03	36.10
	62	5310	36.05	36.11
802.11ac VHT80	58	5290	75.50	75.15

In the 5.5G Band

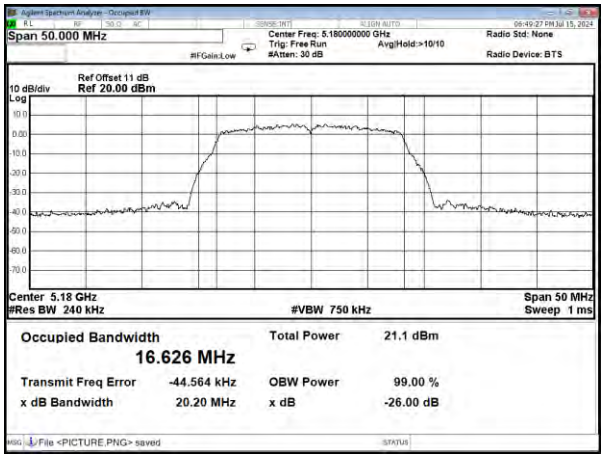
Mode	Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			ANT A	ANT B
802.11ac VHT20	100	5500	17.63	17.56
	116	5580	17.64	17.60
	140	5700	17.65	17.56
802.11ac VHT40	102	5510	36.01	36.15
	118	5590	36.16	36.12
	134	5670	36.08	36.08
802.11ac VHT80	106	5530	75.45	75.29
	122	5610	75.46	75.29

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

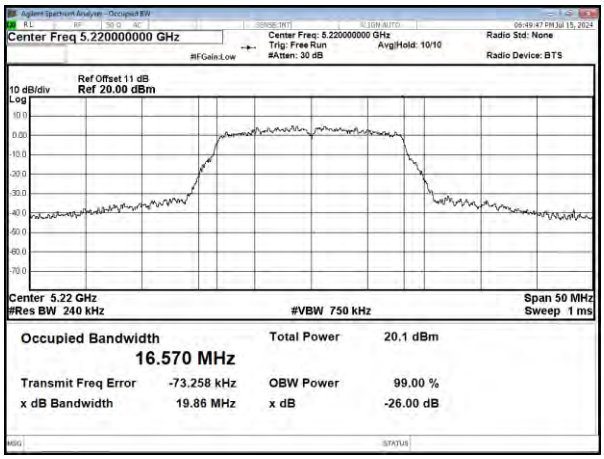
SISO-ANT A

Modulation Standard: 802.11a

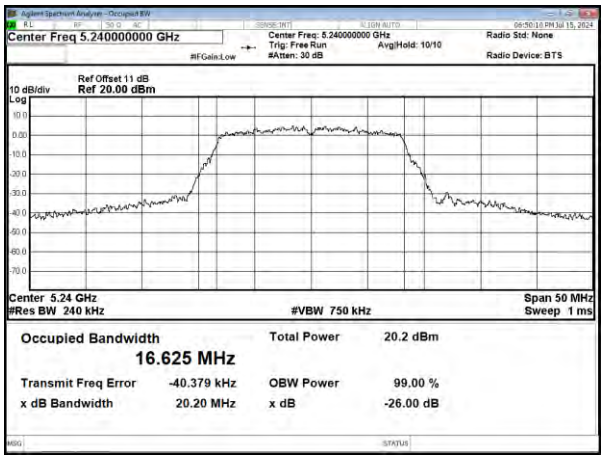
CH36



CH44



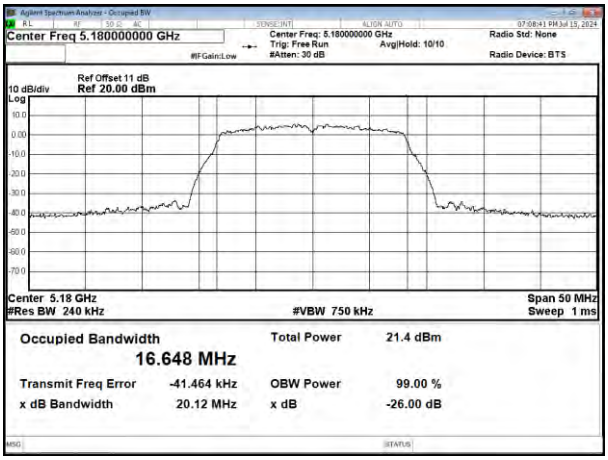
CH48



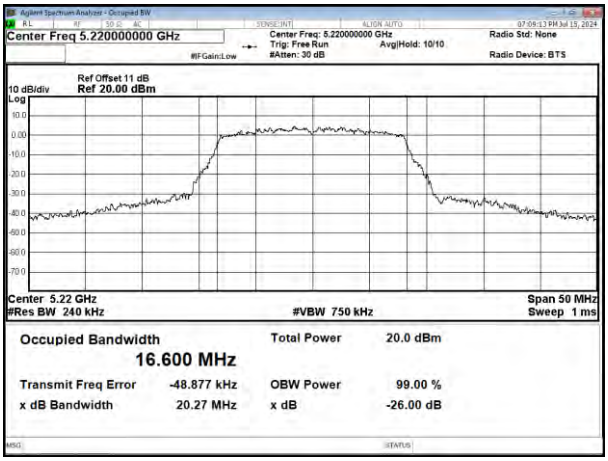
SISO-ANT B

Modulation Standard: 802.11a

CH36



CH44



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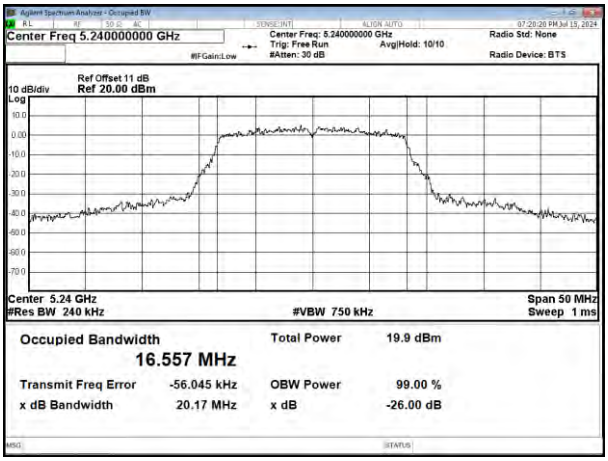
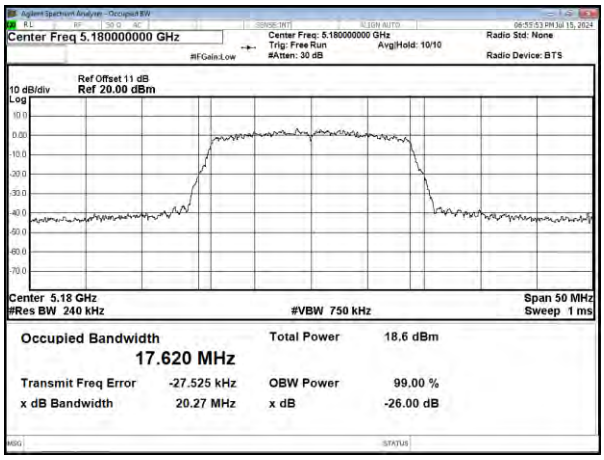


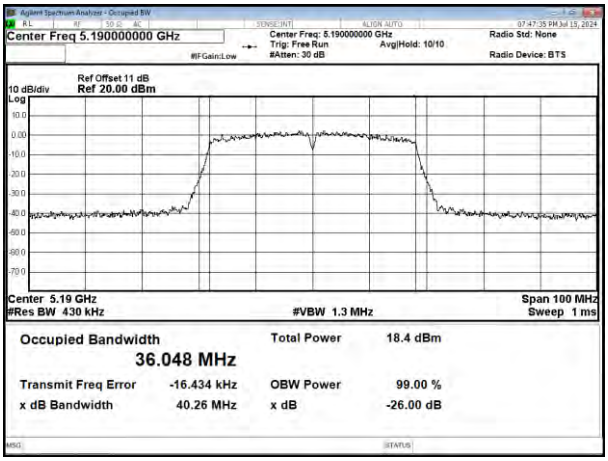
26dB Bandwidth &99% Occupied Bandwidth, UNII-1

MIMO-ANT A

Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



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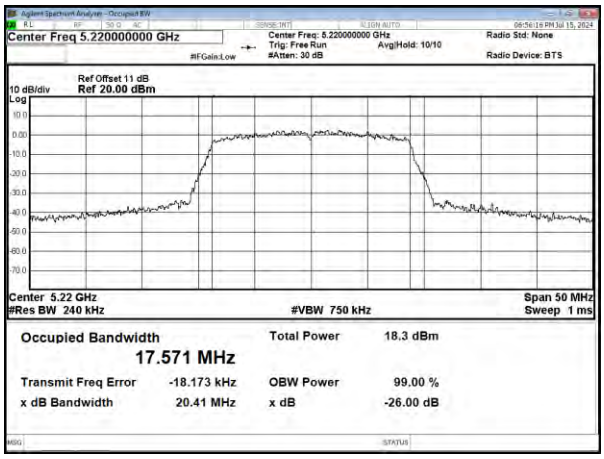
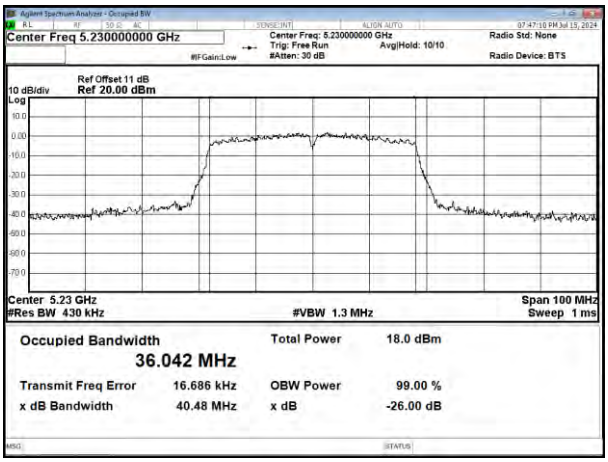
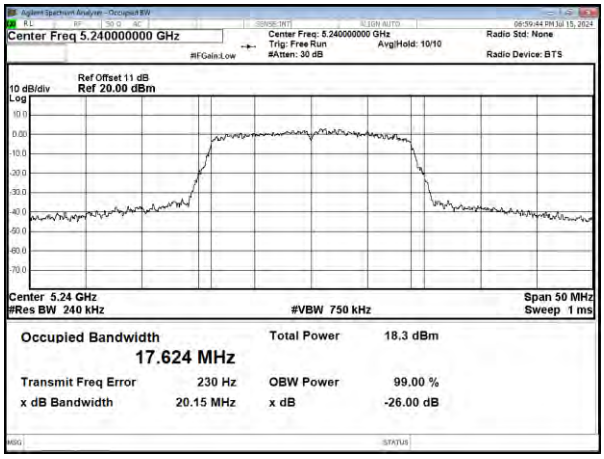


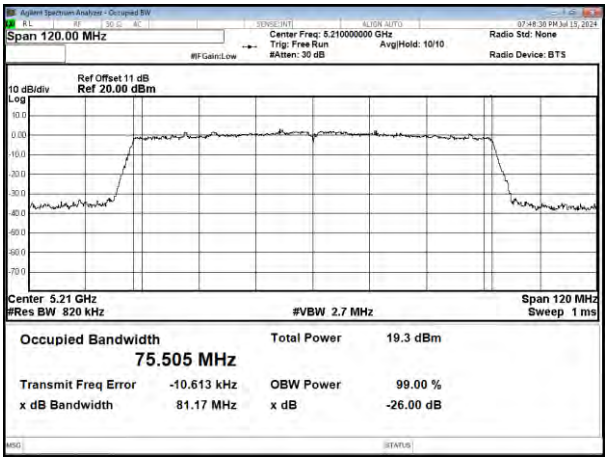
CH46



CH48



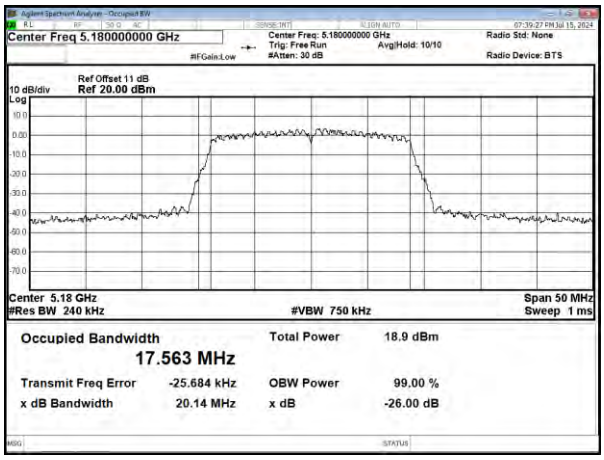
Modulation Standard: 802.11ac VHT80
CH42



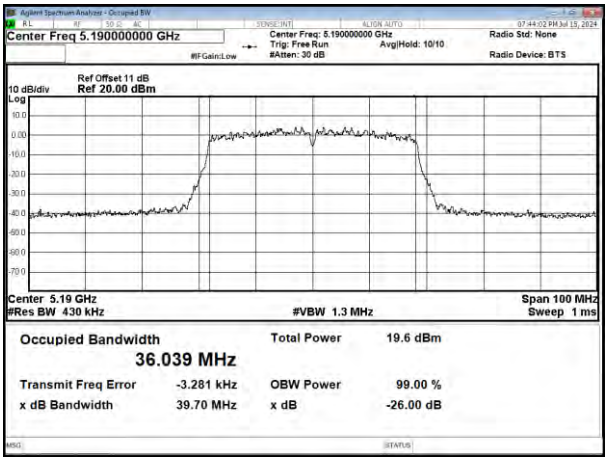
26dB Bandwidth &99% Occupied Bandwidth, UNII-1

MIMO-ANT B

Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



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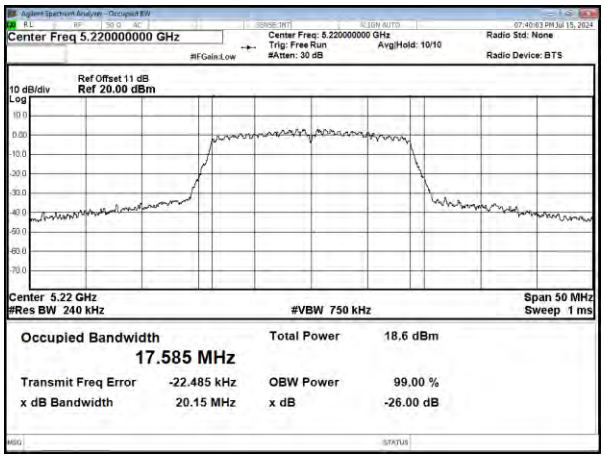
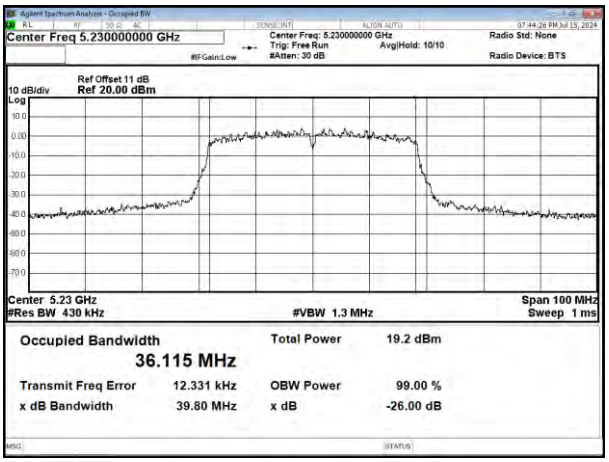
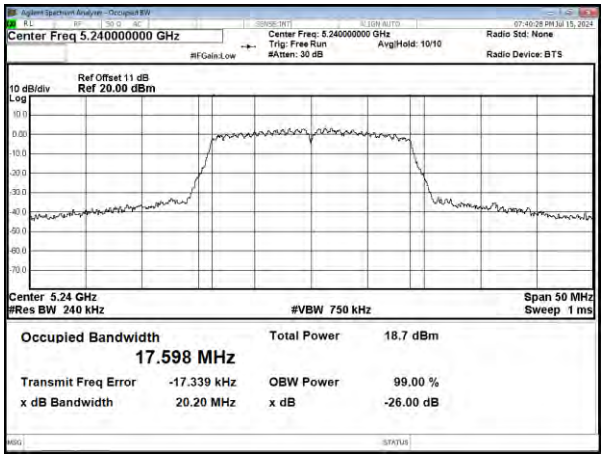


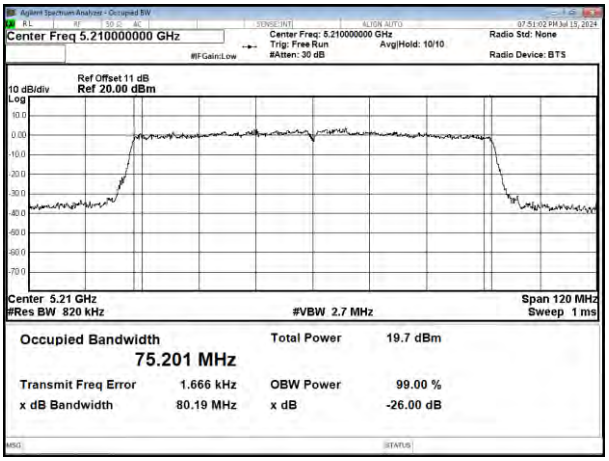
CH46



CH48



Modulation Standard: 802.11ac VHT80
CH42

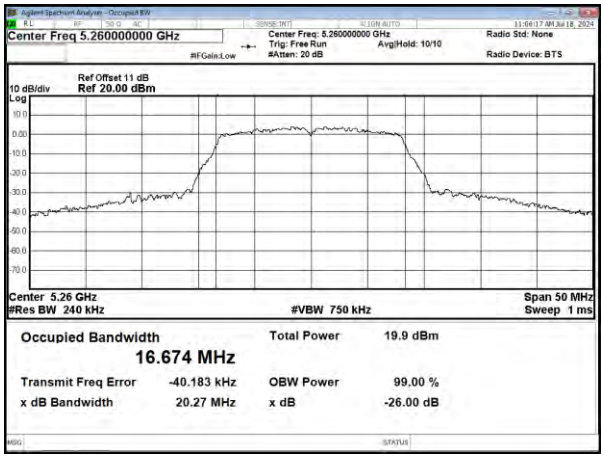


26dB Bandwidth &99% Occupied Bandwidth, UNII-2A

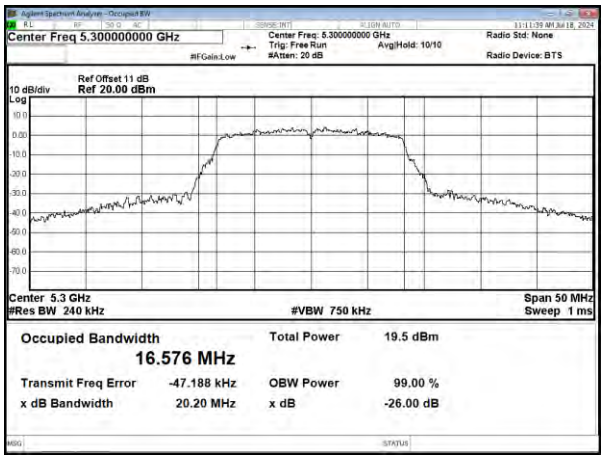
SISO-ANT A

Modulation Standard: 802.11a

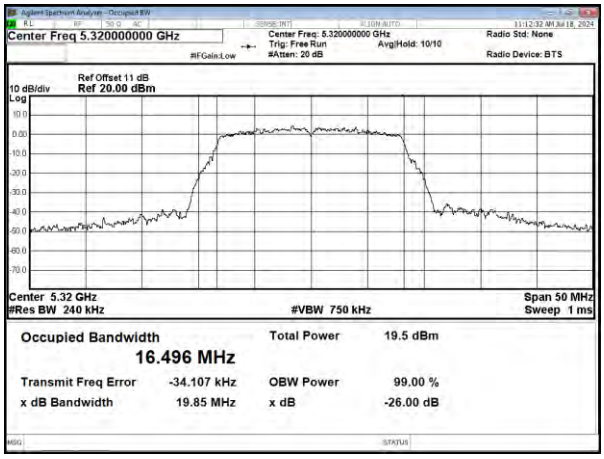
CH52



CH60



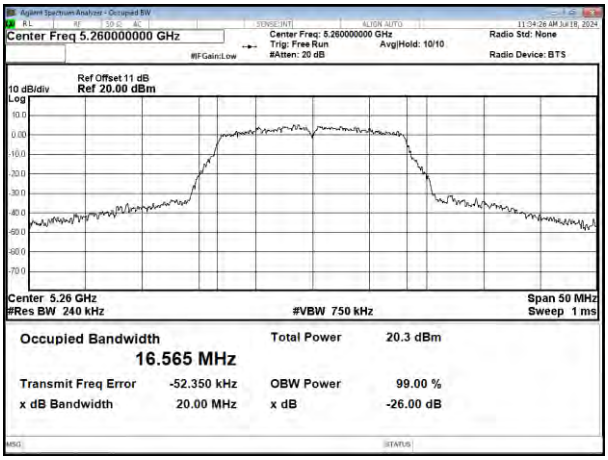
CH64



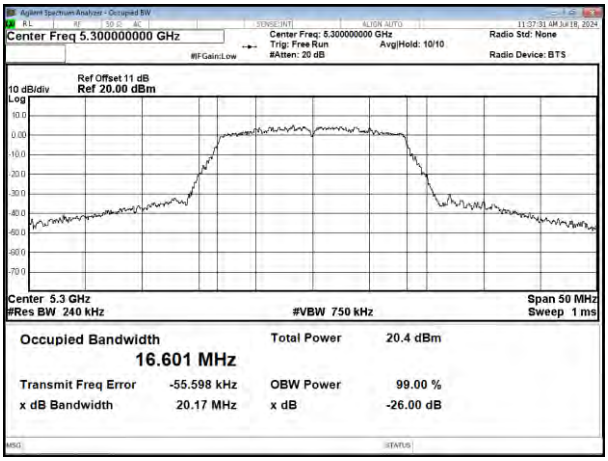
SISO-ANT B

Modulation Standard: 802.11a

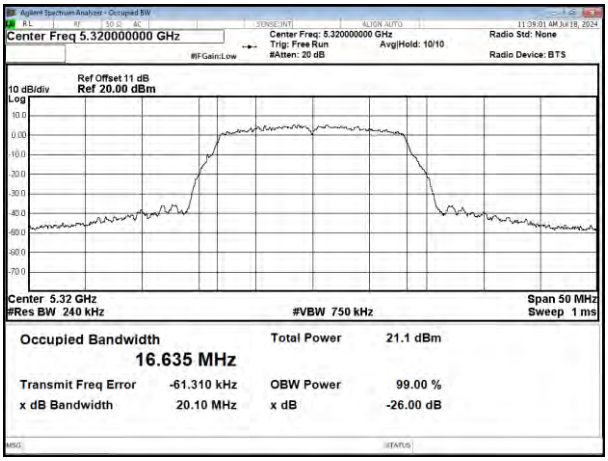
CH52



CH60



CH64

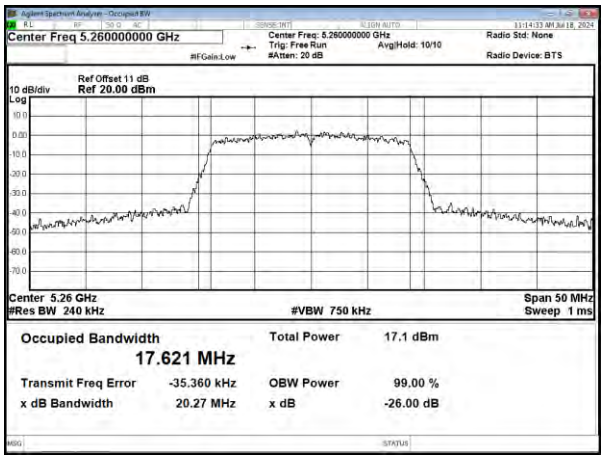


26dB Bandwidth &99% Occupied Bandwidth, UNII-2A

MIMO-ANT A

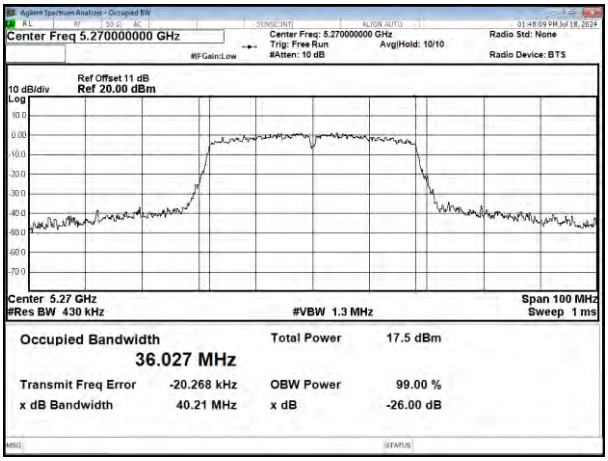
Modulation Standard: 802.11ac VHT20

CH52

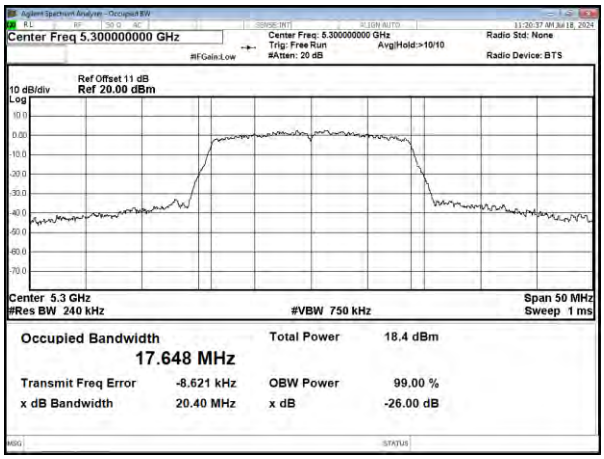


Modulation Standard: 802.11ac VHT40

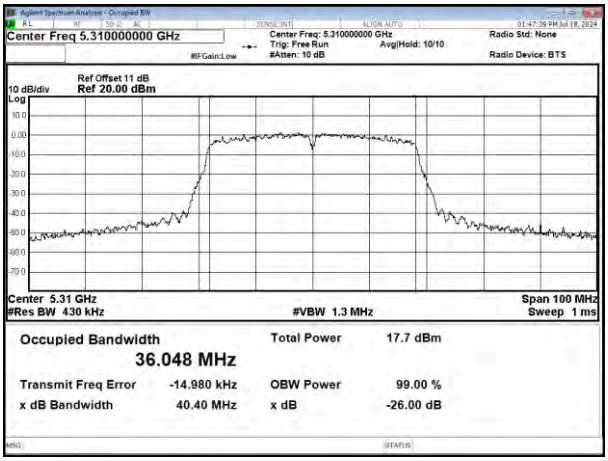
CH54



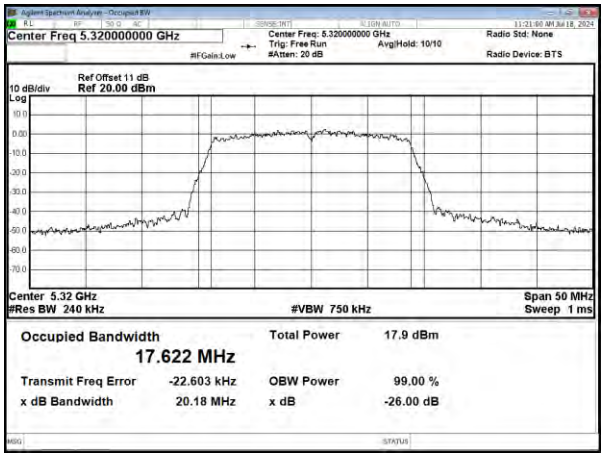
CH60



CH62

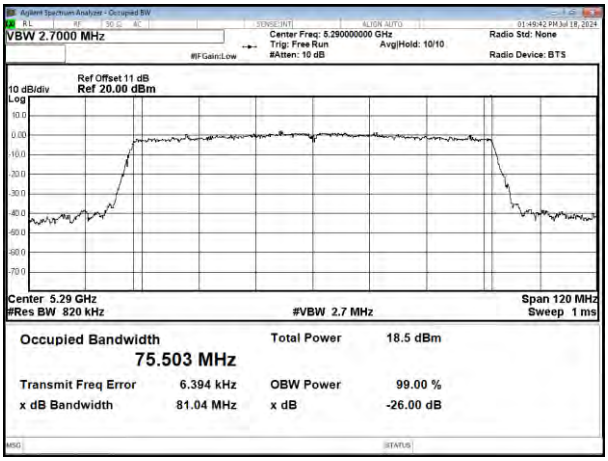


CH64



Modulation Standard: 802.11ac VHT80

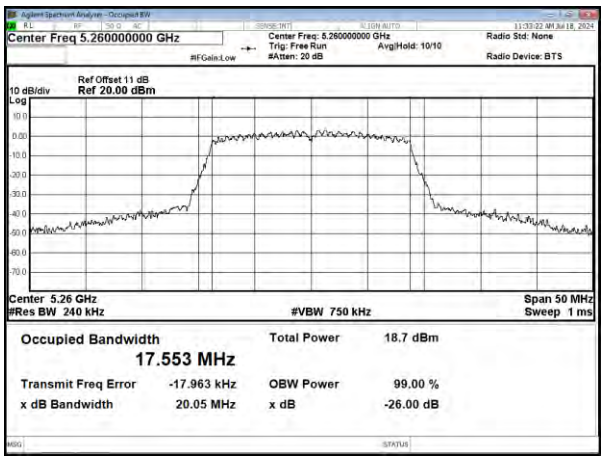
CH58



MIMO-ANT B

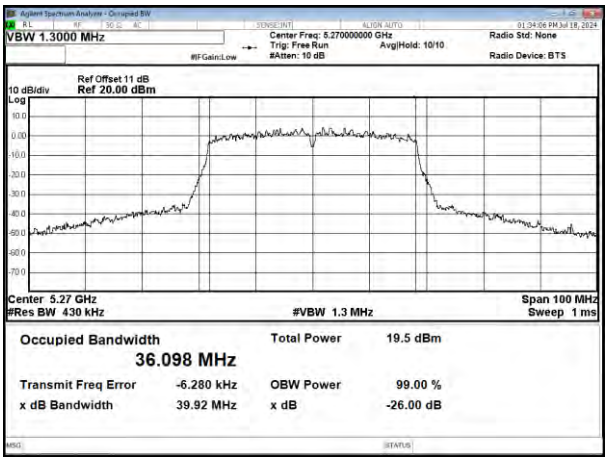
Modulation Standard: 802.11ac VHT20

CH52

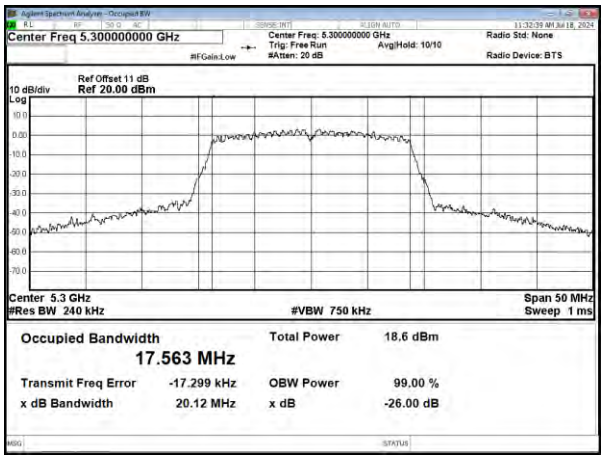


Modulation Standard: 802.11ac VHT40

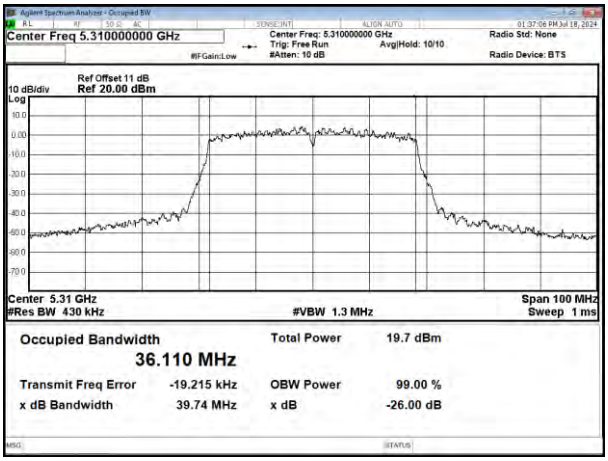
CH54



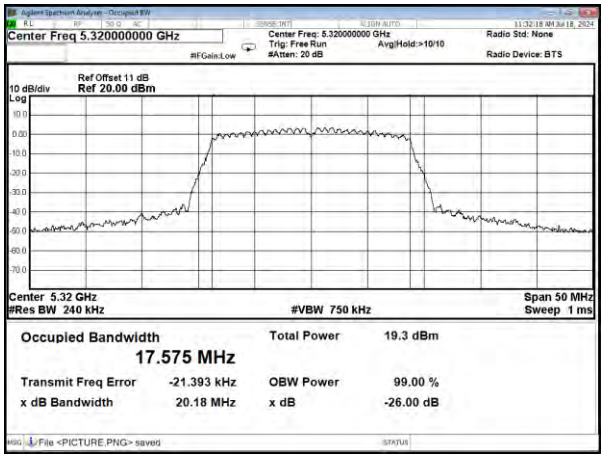
CH60



CH62

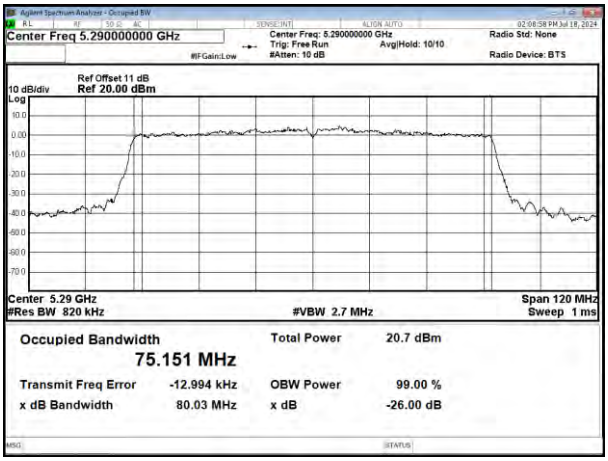


CH64



Modulation Standard: 802.11ac VHT80

CH58

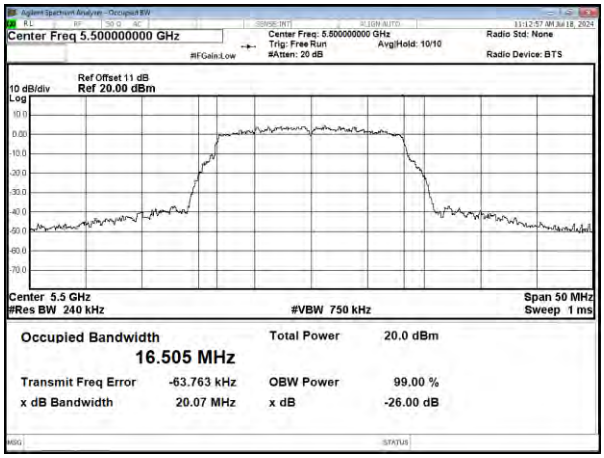


26dB Bandwidth &99% Occupied Bandwidth, UNII-2C

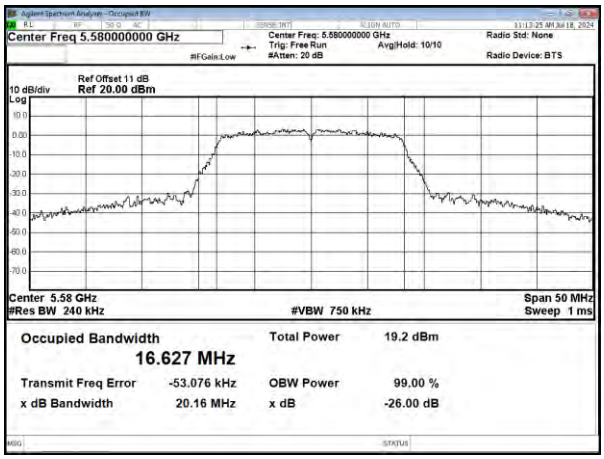
SISO-ANT A

Modulation Standard: 802.11a

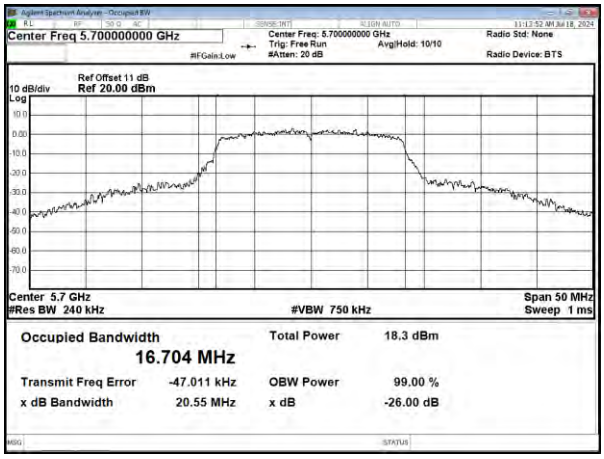
CH100



CH116



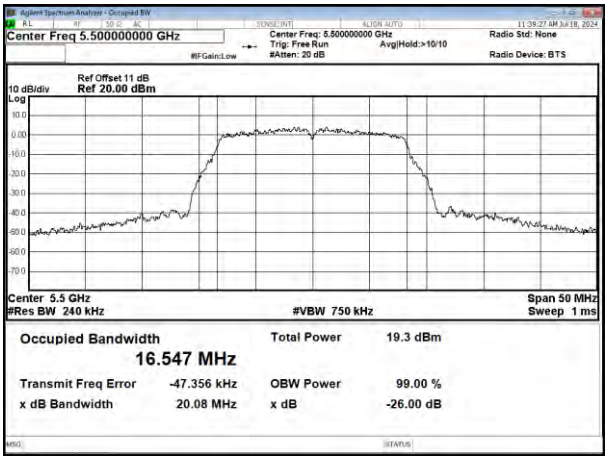
CH140



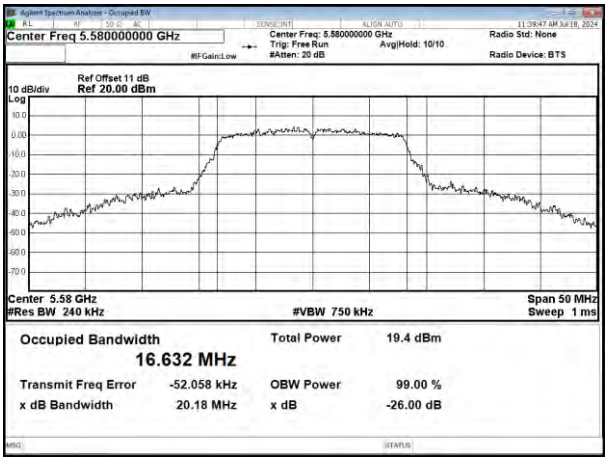
SISO-ANT B

Modulation Standard: 802.11a

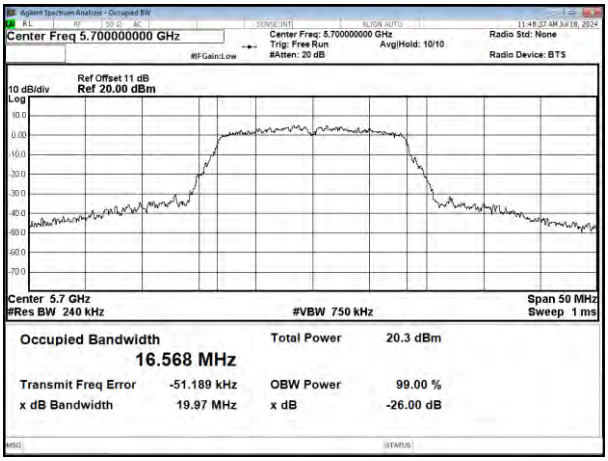
CH100



CH116



CH140

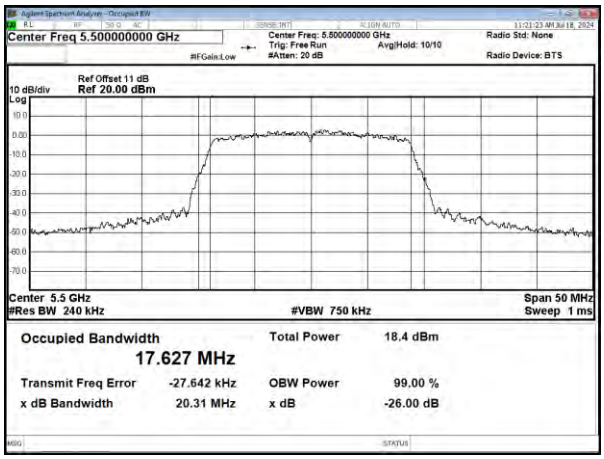


26dB Bandwidth &99% Occupied Bandwidth, UNII-2C

MIMO-ANT A

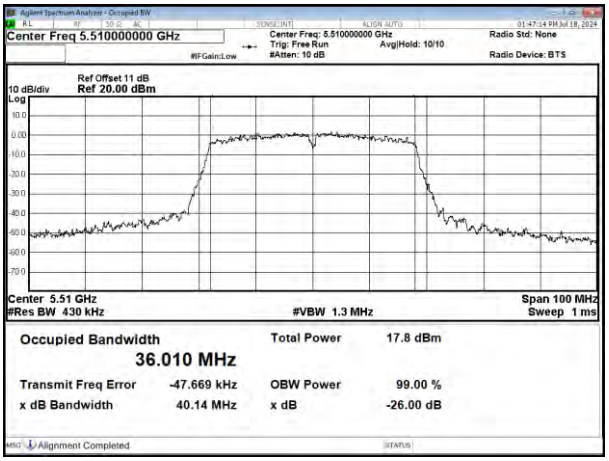
Modulation Standard: 802.11ac VHT20

CH100

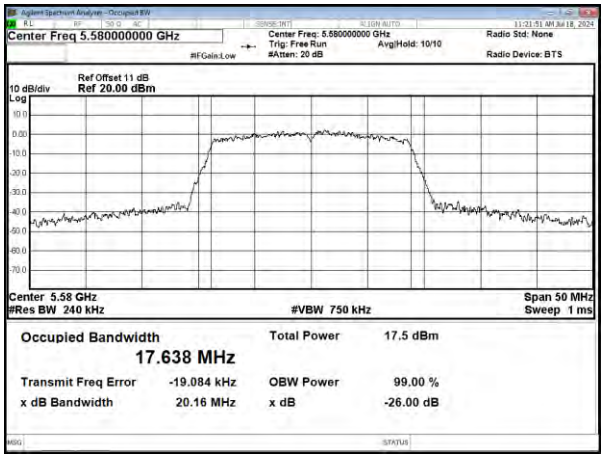


Modulation Standard: 802.11ac VHT40

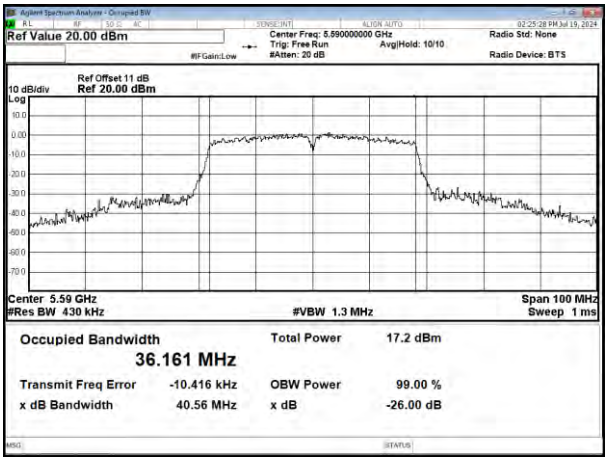
CH102



CH116



CH118



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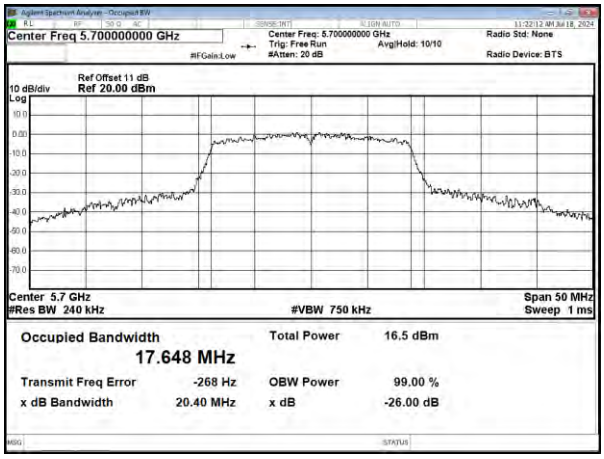
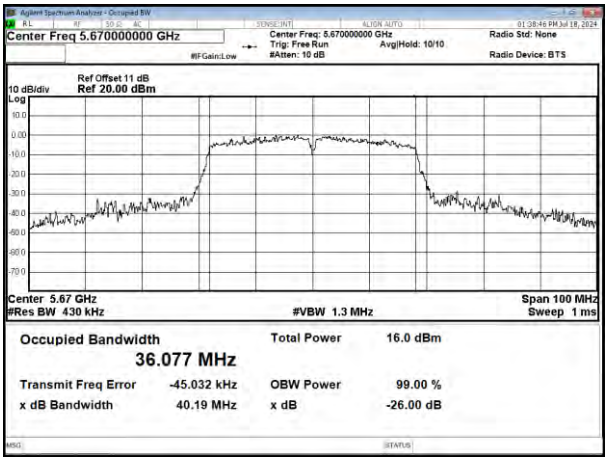


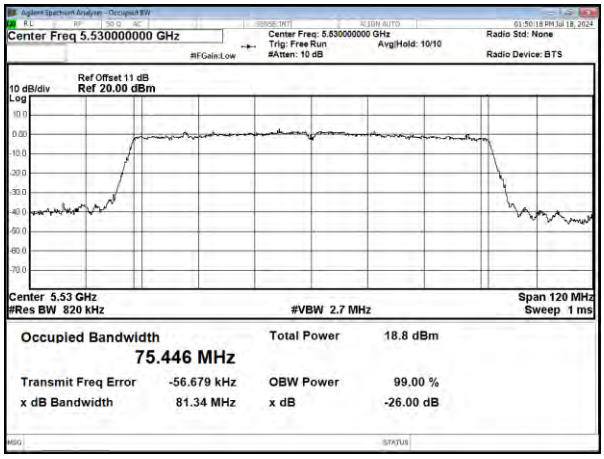
CH134



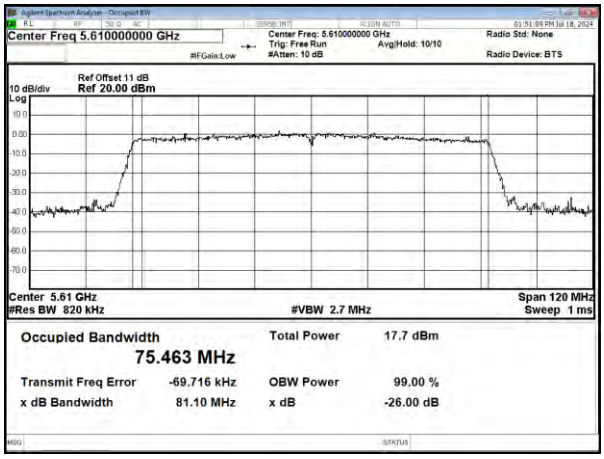
26dB Bandwidth &99% Occupied Bandwidth, UNII-2C

Modulation Standard: 802.11ac VHT80

CH106



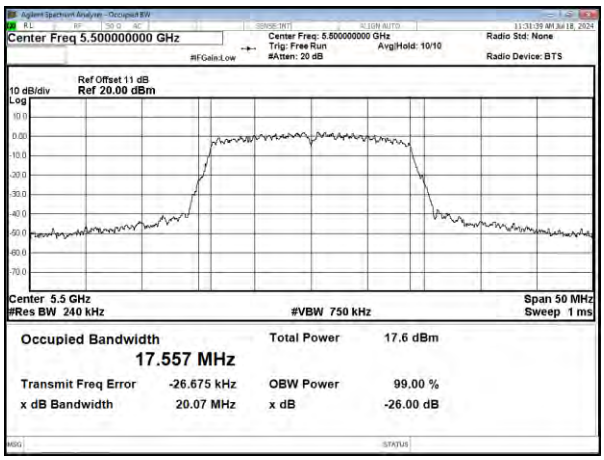
CH122



MIMO-ANT B

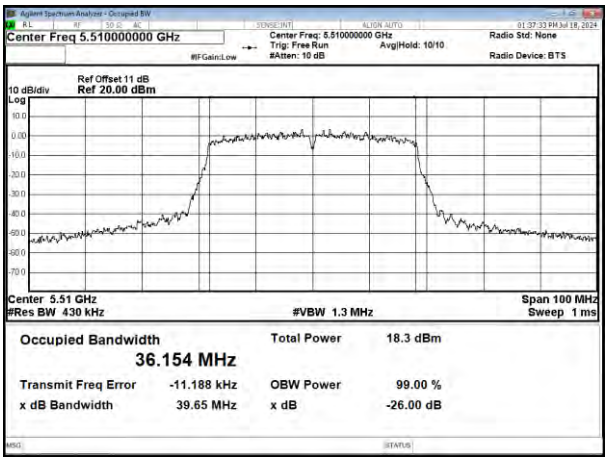
Modulation Standard: 802.11ac VHT20

CH100

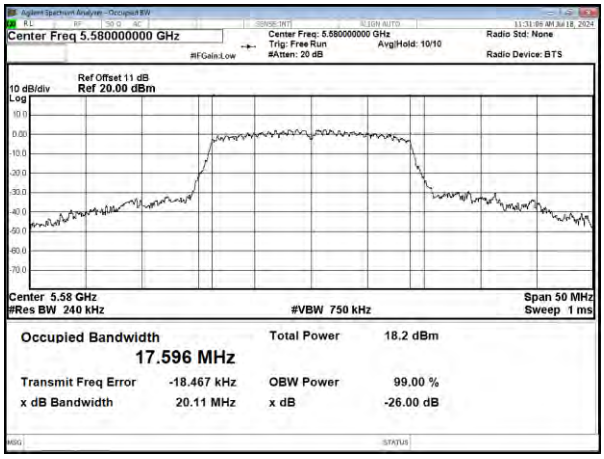


Modulation Standard: 802.11ac VHT40

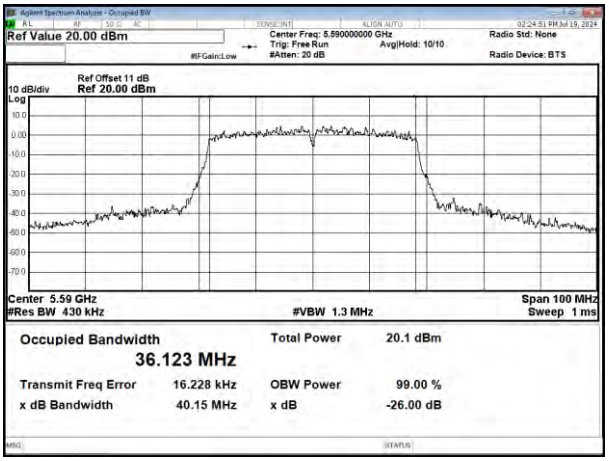
CH102



CH116



CH118



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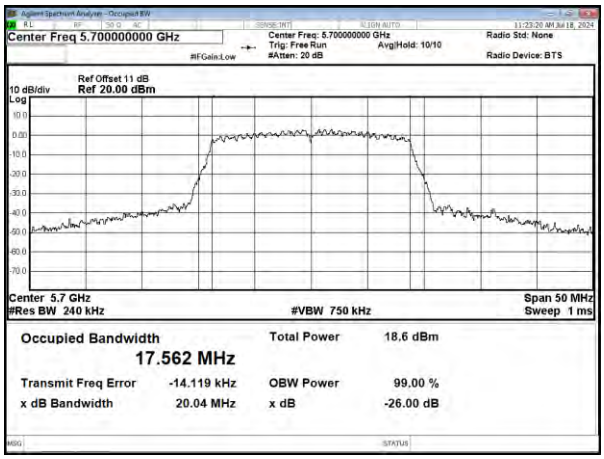

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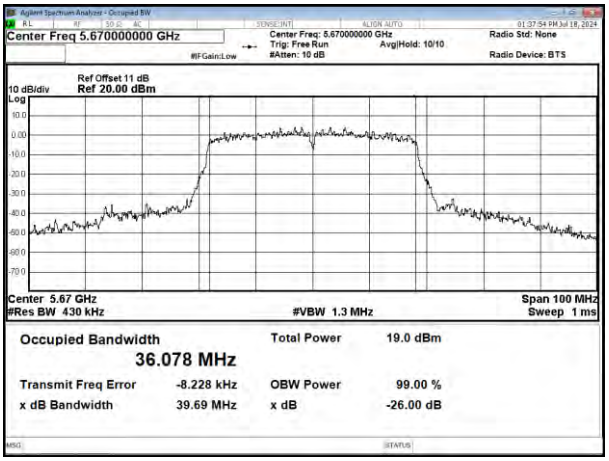
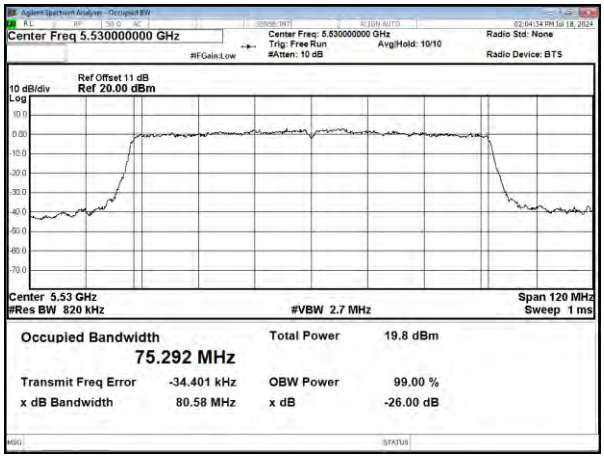


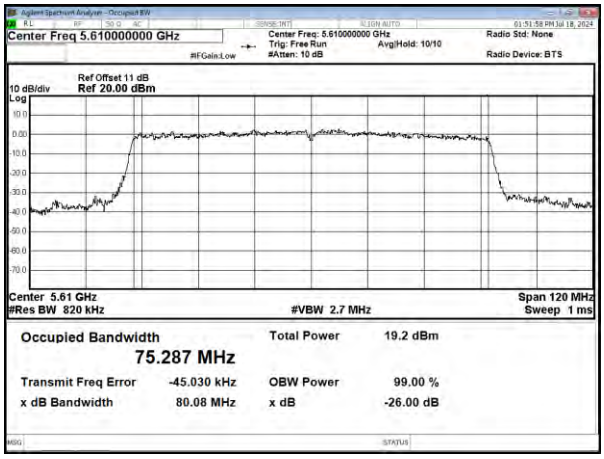
26dB Bandwidth &99% Occupied Bandwidth, UNII-2C

Modulation Standard: 802.11ac VHT80

CH106



CH122



10. Average Power

10.1. Test Limit

Output Power:

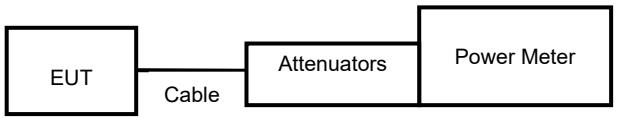
Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☐	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi 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 exceed125 mW (21 dBm).
	☐	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.
	☐	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.
	☒	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
☒	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.
☒	5.470-5.725 GHz	
☒	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

SISO-ANTA

In the 5.2G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	36	5180	13.940	24.774	24.00
11a	6 Mbps	44	5220	13.600	22.909	24.00
11a	6 Mbps	48	5240	13.630	23.067	24.00

In the 5.3G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	52	5260	12.420	17.458	24.00
11a	6 Mbps	60	5300	12.780	18.967	24.00
11a	6 Mbps	64	5320	12.830	19.187	24.00

In the 5.5G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	100	5500	13.420	21.979	24.00
11a	6 Mbps	116	5580	12.540	17.947	24.00
11a	6 Mbps	140	5700	11.690	14.757	24.00

In the 5.8G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	149	5745	13.970	24.946	30.00
11a	6 Mbps	157	5785	14.270	26.730	30.00
11a	6 Mbps	165	5825	14.220	26.424	30.00

SISO-ANTB

In the 5.2G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	36	5180	14.210	26.363	24.00
11a	6 Mbps	44	5220	13.710	23.496	24.00
11a	6 Mbps	48	5240	13.870	24.378	24.00

In the 5.3G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	52	5260	13.790	23.933	24.00
11a	6 Mbps	60	5300	13.970	24.946	24.00
11a	6 Mbps	64	5320	13.940	24.774	24.00

In the 5.5G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	100	5500	12.850	19.275	24.00
11a	6 Mbps	116	5580	13.090	20.370	24.00
11a	6 Mbps	140	5700	13.690	23.388	24.00

In the 5.8G Band

Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
11a	6 Mbps	149	5745	14.540	28.445	30.00
11a	6 Mbps	157	5785	14.400	27.542	30.00
11a	6 Mbps	165	5825	14.260	26.669	30.00

MIMO

In the 5.2G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5180	12.050	12.150	15.111	32.438	24.00
11n HT20	MCS 0	5220	11.560	11.810	14.697	29.492	24.00
11n HT20	MCS 0	5240	11.430	11.840	14.650	29.175	24.00
11n HT40	MCS 0	5190	11.620	11.900	14.773	30.009	24.00
11n HT40	MCS 0	5230	11.540	11.640	14.601	28.844	24.00
11ac VHT20	NSS1-MCS0	5180	12.180	12.260	15.230	33.346	24.00
11ac VHT20	NSS1-MCS0	5220	11.790	11.960	14.886	30.804	24.00
11ac VHT20	NSS1-MCS0	5240	11.720	11.920	14.831	30.419	24.00
11ac VHT40	NSS1-MCS0	5190	11.790	12.000	14.907	30.950	24.00
11ac VHT40	NSS1-MCS0	5230	11.780	11.820	14.810	30.272	24.00
11ac VHT80	NSS1-MCS0	5210	11.390	11.460	14.435	27.768	24.00

In the 5.3G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5260	10.350	11.720	14.099	25.699	23.92
11n HT20	MCS 0	5300	10.860	11.790	14.360	27.291	23.92
11n HT20	MCS 0	5320	11.070	11.680	14.396	27.517	23.92
11n HT40	MCS 0	5270	10.610	11.720	14.211	26.367	23.92
11n HT40	MCS 0	5310	10.730	11.850	14.336	27.141	23.92
11ac VHT20	NSS1-MCS0	5260	10.590	11.860	14.282	26.801	23.92
11ac VHT20	NSS1-MCS0	5300	11.010	12.000	14.543	28.467	23.92
11ac VHT20	NSS1-MCS0	5320	11.120	11.970	14.576	28.682	23.92
11ac VHT40	NSS1-MCS0	5270	10.690	11.810	14.296	26.892	23.92
11ac VHT40	NSS1-MCS0	5310	10.990	11.960	14.512	28.264	23.92
11ac VHT80	NSS1-MCS0	5290	10.300	11.460	13.929	24.711	23.92

In the 5.5G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5500	11.360	10.740	14.071	25.535	23.90
11n HT20	MCS 0	5580	10.450	11.160	13.830	24.153	23.90
11n HT20	MCS 0	5700	9.760	11.580	13.775	23.850	23.90
11n HT40	MCS 0	5510	11.380	10.720	14.073	25.544	23.90
11n HT40	MCS 0	5590	10.720	10.910	13.826	24.134	23.90
11n HT40	MCS 0	5670	9.680	11.560	13.731	23.612	23.90
11ac VHT20	NSS1-MCS0	5500	11.520	10.960	14.259	26.664	23.90
11ac VHT20	NSS1-MCS0	5580	10.790	11.320	14.073	25.547	23.90
11ac VHT20	NSS1-MCS0	5700	9.920	11.740	13.935	24.745	23.90
11ac VHT40	NSS1-MCS0	5510	11.460	10.840	14.171	26.130	23.90
11ac VHT40	NSS1-MCS0	5590	10.830	11.050	13.952	24.841	23.90
11ac VHT40	NSS1-MCS0	5670	9.920	11.730	13.929	24.711	23.90
11ac VHT80	NSS1-MCS0	5530	10.730	10.350	13.554	22.670	23.90
11ac VHT80	NSS1-MCS0	5610	10.070	11.010	13.576	22.781	23.90

In the 5.8G Band

Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT A	ANT B	A+B	A+B	
11n HT20	MCS 0	5745	12.020	12.380	15.214	33.220	29.69
11n HT20	MCS 0	5785	12.290	12.570	15.443	35.015	29.69
11n HT20	MCS 0	5825	12.210	12.340	15.286	33.774	29.69
11n HT40	MCS 0	5755	12.120	12.180	15.160	32.813	29.69
11n HT40	MCS 0	5795	12.330	12.310	15.330	34.122	29.69
11ac VHT20	NSS1-MCS0	5745	12.140	12.580	15.376	34.482	29.69
11ac VHT20	NSS1-MCS0	5785	12.360	12.620	15.502	35.500	29.69
11ac VHT20	NSS1-MCS0	5825	12.260	12.540	15.413	34.774	29.69
11ac VHT40	NSS1-MCS0	5755	12.180	12.470	15.338	34.180	29.69
11ac VHT40	NSS1-MCS0	5795	12.460	12.370	15.426	34.878	29.69
11ac VHT80	NSS1-MCS0	5775	11.880	11.870	14.885	30.799	29.69

11. Maximum Power Spectral Density

11.1. Test Limit

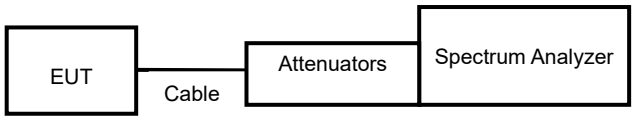
PSD:

Frequency Band			Limit
☒	5.15~5.25GHz		
	Operating Mode		
	☐	Outdoor access point	17 dBm/MHz
	☐	Indoor access point	17 dBm/MHz
	☐	Fixed point-to-point access points	17 dBm/MHz
	☒	client devices	11 dBm/MHz
☒	5.250~5.350 GHz		11 dBm/MHz
☒	5.470~5.725 GHz		11 dBm/MHz
☒	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

SISO-ANT A

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	3.391	0.14	3.531	11.00
11a	44	5220	3.045	0.14	3.185	11.00
11a	48	5240	3.097	0.14	3.237	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	1.905	0.14	2.045	11.00
11a	60	5300	2.350	0.14	2.490	11.00
11a	64	5320	2.554	0.14	2.694	11.00

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	100	5500	3.009	0.14	3.149	11.00
11a	116	5580	2.081	0.14	2.221	11.00
11a	140	5700	1.031	0.14	1.171	11.00

In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	149	5745	3.426	0.14	-3.010	0.56	30.00
11a	157	5785	3.463	0.14	-3.010	0.59	30.00
11a	165	5825	3.434	0.14	-3.010	0.56	30.00

SISO-ANT B

In the 5.2G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	36	5180	3.750	0.14	3.890	11.00
11a	44	5220	3.321	0.14	3.461	11.00
11a	48	5240	3.321	0.14	3.461	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	52	5260	3.144	0.14	3.284	11.00
11a	60	5300	3.300	0.14	3.440	11.00
11a	64	5320	3.248	0.14	3.388	11.00

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSD (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	100	5500	2.167	0.14	2.307	11.00
11a	116	5580	2.543	0.14	2.683	11.00
11a	140	5700	3.168	0.14	3.308	11.00

In the 5.8G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	149	5745	3.917	0.14	-3.010	1.05	30.00
11a	157	5785	3.617	0.14	-3.010	0.75	30.00
11a	165	5825	3.629	0.14	-3.010	0.76	30.00

MIMO

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				
11ac VHT20	36	5180	1.440	1.783	4.625	0.14	4.765	11.00
11ac VHT20	44	5220	1.100	1.317	4.220	0.14	4.360	11.00
11ac VHT20	48	5240	1.070	1.346	4.220	0.14	4.360	11.00
11ac VHT40	38	5190	-1.800	-1.560	1.332	0.29	1.622	11.00
11ac VHT40	46	5230	-1.740	-1.808	1.236	0.29	1.526	11.00
11ac VHT80	42	5210	-5.410	-8.192	-3.572	0.61	-2.962	11.00

In the 5.3G 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				
11ac VHT20	52	5260	0.073	1.205	3.686	0.14	3.826	10.92
11ac VHT20	60	5300	0.361	1.180	3.800	0.14	3.940	10.92
11ac VHT20	64	5320	0.476	1.273	3.903	0.14	4.043	10.92
11ac VHT40	54	5270	-3.126	-1.874	0.555	0.29	0.845	10.92
11ac VHT40	62	5310	-2.808	-1.823	0.723	0.29	1.013	10.92
11ac VHT80	58	5290	-6.344	-5.328	-2.796	0.61	-2.186	10.92

In the 5.5G 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				
11ac VHT20	100	5500	0.860	0.186	3.546	0.14	3.686	10.90
11ac VHT20	116	5580	-0.167	0.602	3.245	0.14	3.385	10.90
11ac VHT20	140	5700	-1.091	0.999	3.089	0.14	3.229	10.90
11ac VHT40	102	5510	-2.326	-3.020	0.351	0.29	0.641	10.90
11ac VHT40	118	5590	-2.860	-1.044	1.153	0.29	1.443	10.90
11ac VHT40	134	5670	-3.993	-2.130	0.048	0.29	0.338	10.90
11ac VHT80	106	5530	-6.223	-6.588	-3.391	0.61	-2.781	10.90
11ac VHT80	122	5610	-6.981	-5.879	-3.385	0.61	-2.775	10.90

In the 5.8G Band

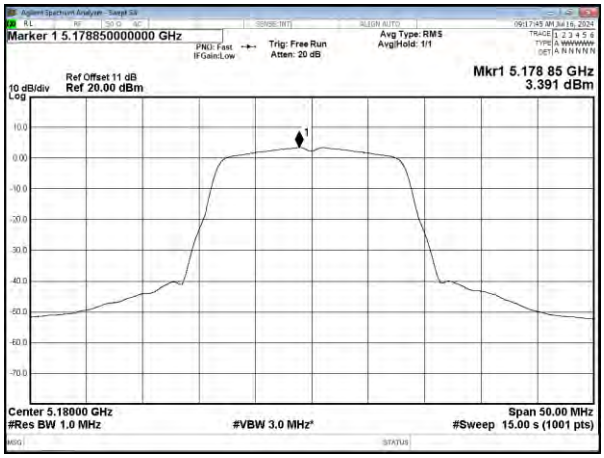
Modulation Type	CH	Freq. (MHz)	Meas PPSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz/RBW) CF (dB)	Total Corr'd PPSD (dBm/500kHz)	PPSD Limit (dBm/500kHz)
			ANT A	ANT B					
11ac VHT20	149	5745	1.380	1.872	4.643	0.14	-3.010	1.77	29.69
11ac VHT20	157	5785	1.380	1.669	4.537	0.14	-3.010	1.67	29.69
11ac VHT20	165	5825	1.433	1.760	4.610	0.14	-3.010	1.74	29.69
11ac VHT40	151	5755	-1.420	-1.310	1.646	0.29	-3.010	-1.07	29.69
11ac VHT40	159	5795	-1.390	-1.610	1.512	0.29	-3.010	-1.21	29.69
11ac VHT80	155	5775	-4.790	-4.913	-1.841	0.61	-3.010	-4.24	29.69

UNII-1

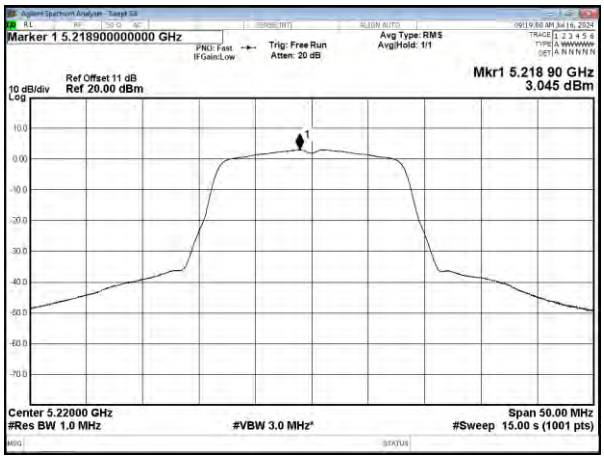
SISO-ANT A

Modulation Standard: 802.11a

CH36



CH44



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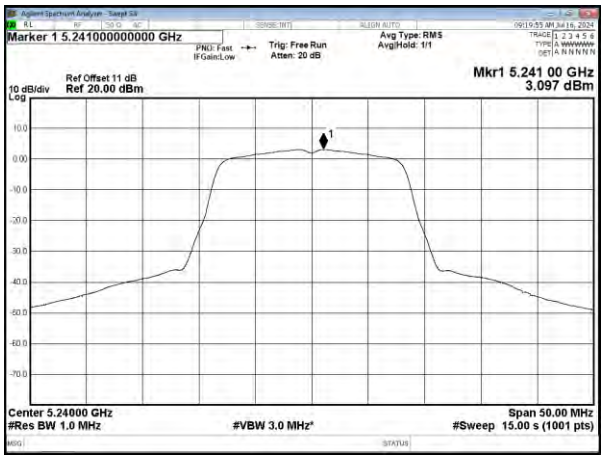
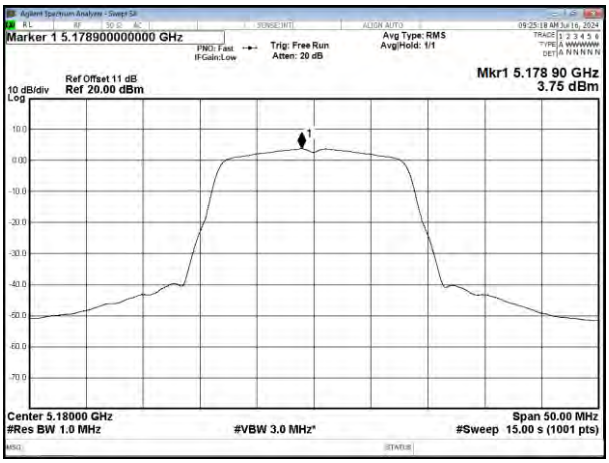


SISO-ANT B

Modulation Standard: 802.11a

CH36



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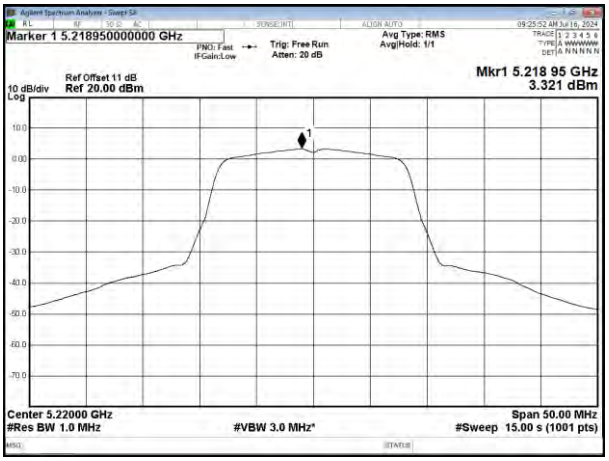

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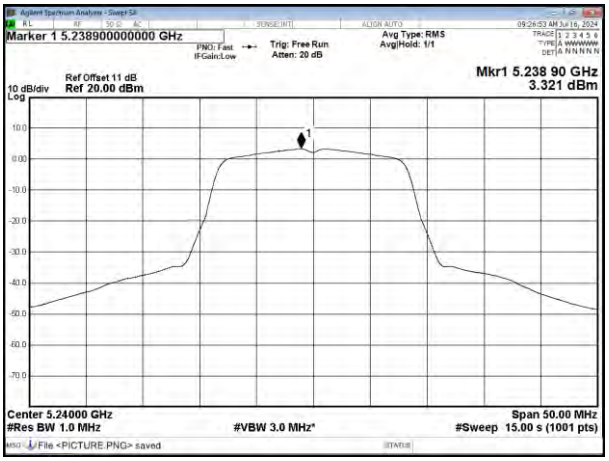
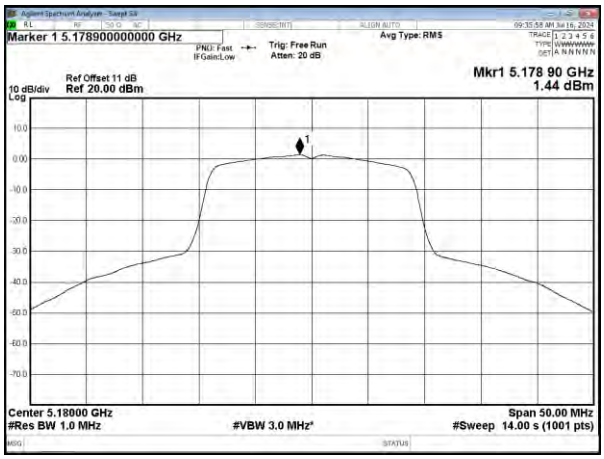
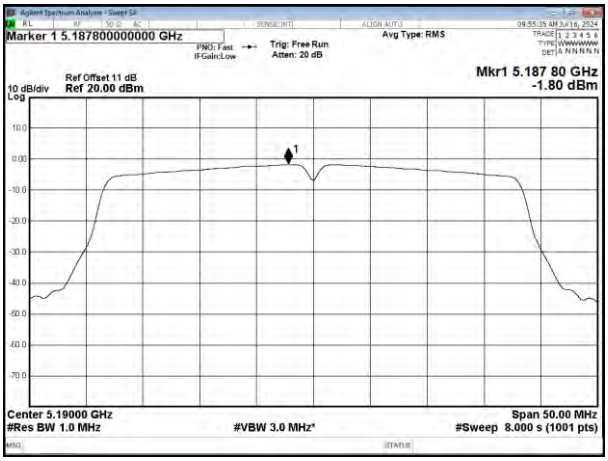


MIMO-ANT A

Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



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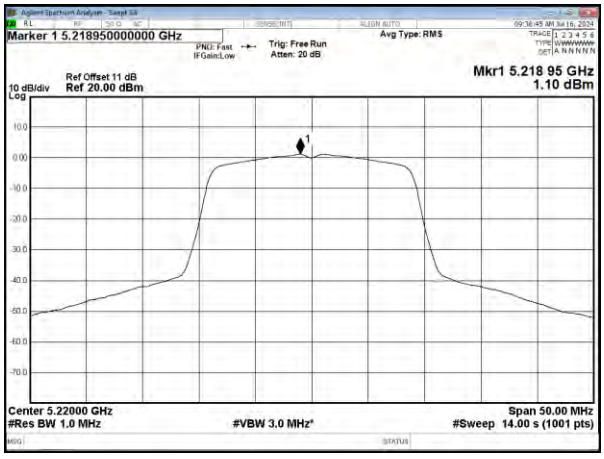
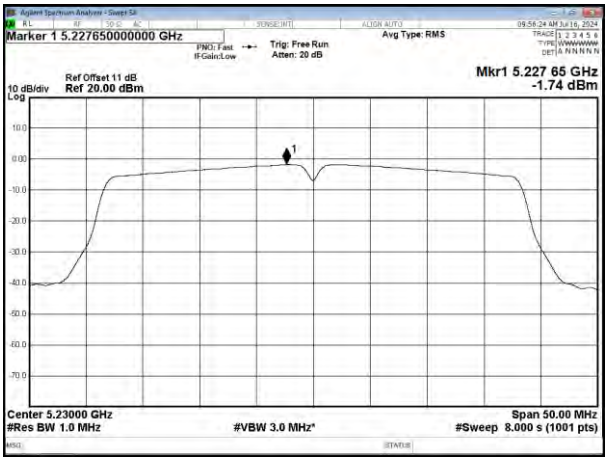


CH46



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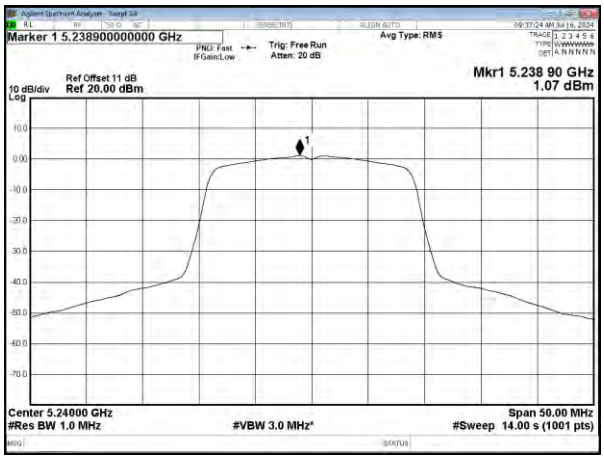
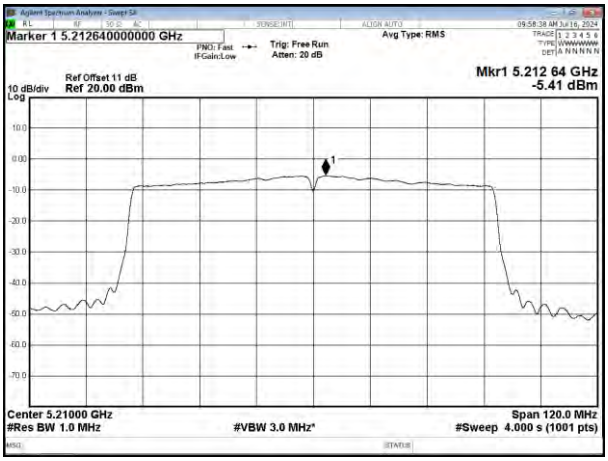
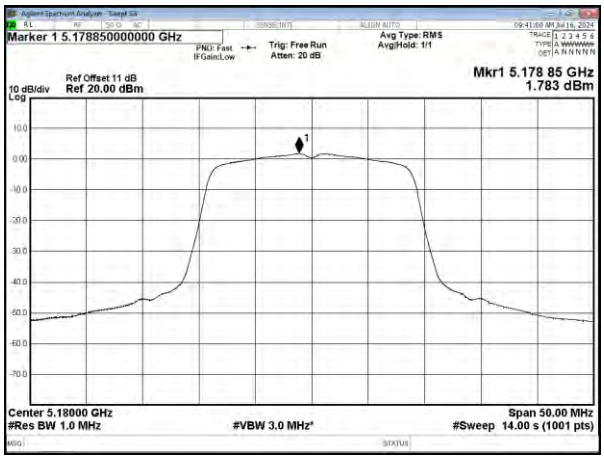


Modulation Standard: 802.11ac VHT80
CH42

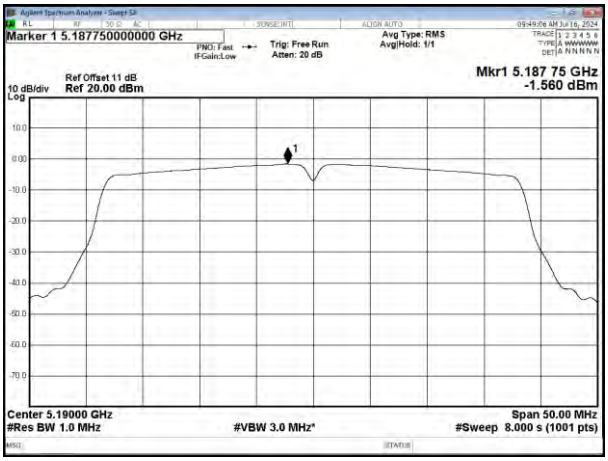


MIMO-ANT B

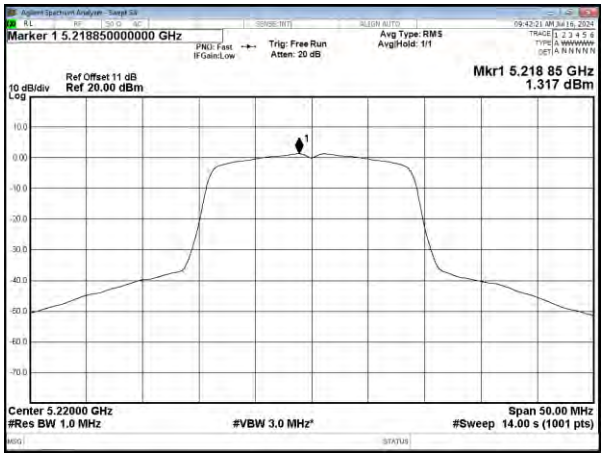
Modulation Standard: 802.11ac VHT20
CH36



Modulation Standard: 802.11ac VHT40
CH38



CH44



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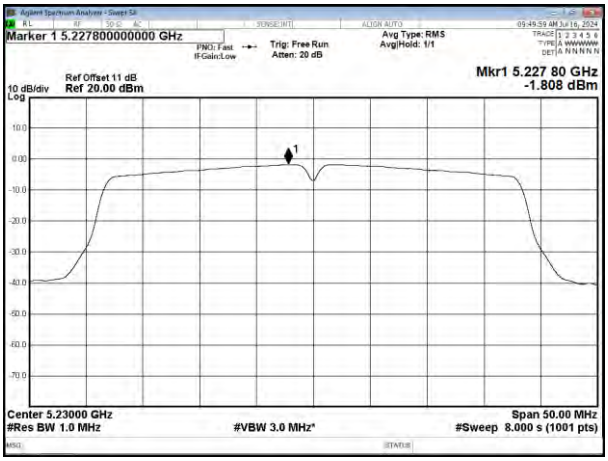

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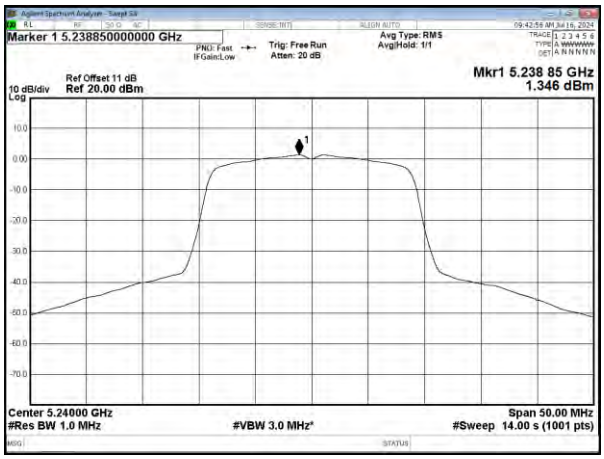
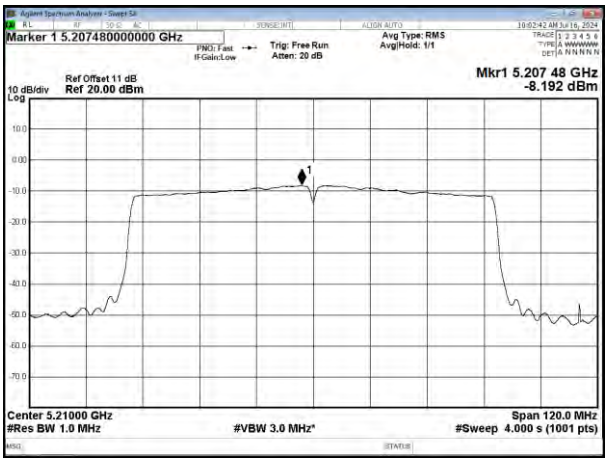


Modulation Standard: 802.11ac VHT80
CH42

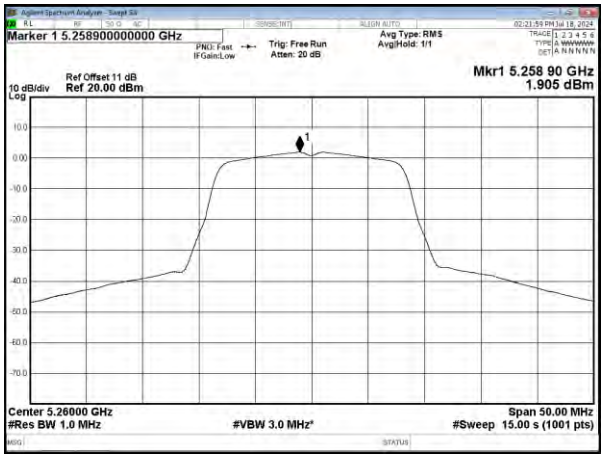


UNII-2A

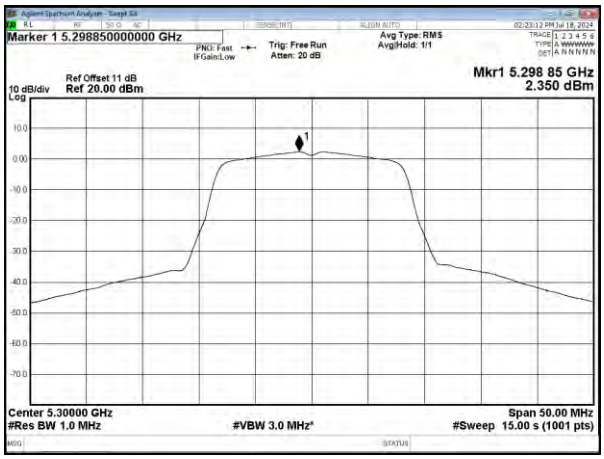
SISO-ANT A

Modulation Standard: 802.11a

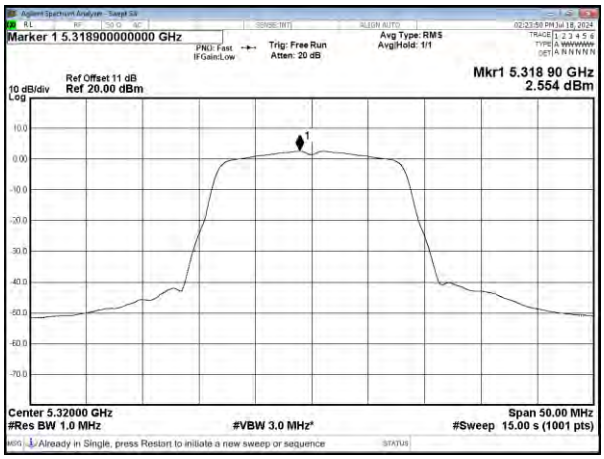
CH52



CH60



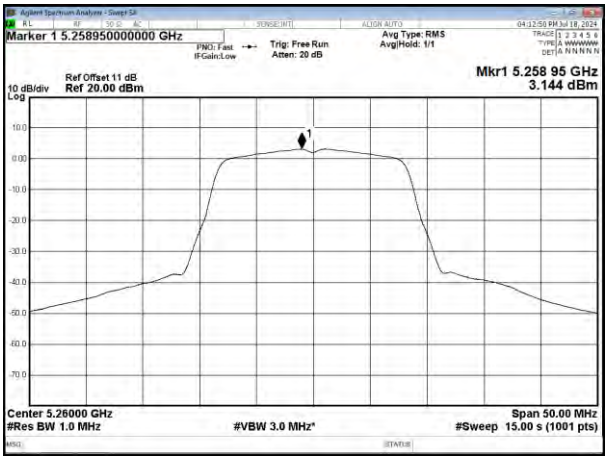
CH64



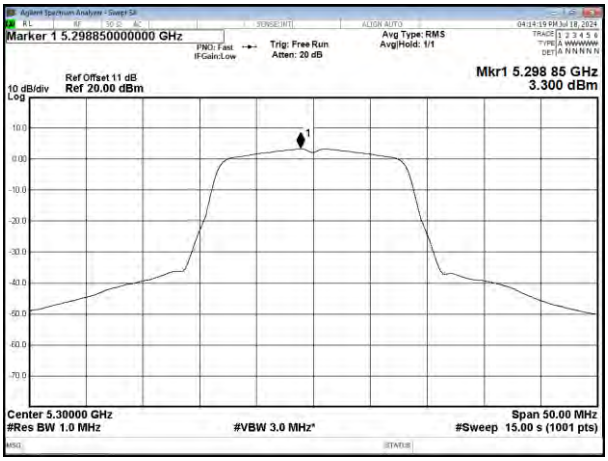
SISO-ANT B

Modulation Standard: 802.11a

CH52



CH60



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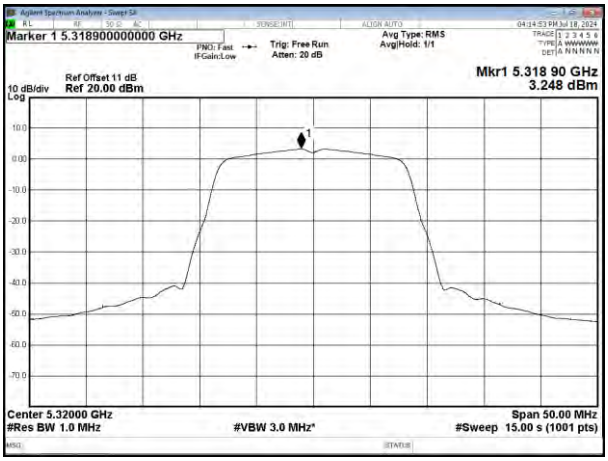
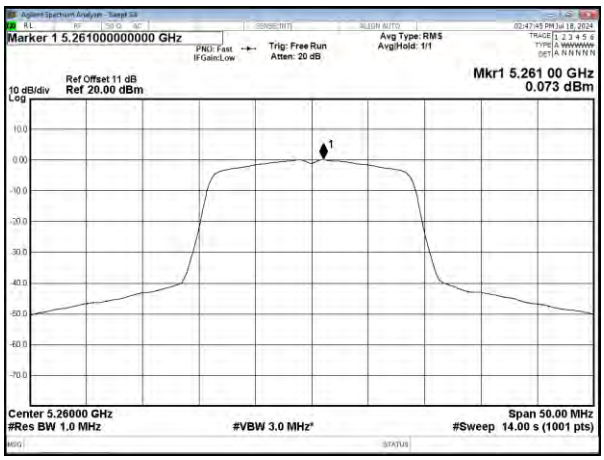


MIMO-ANT A

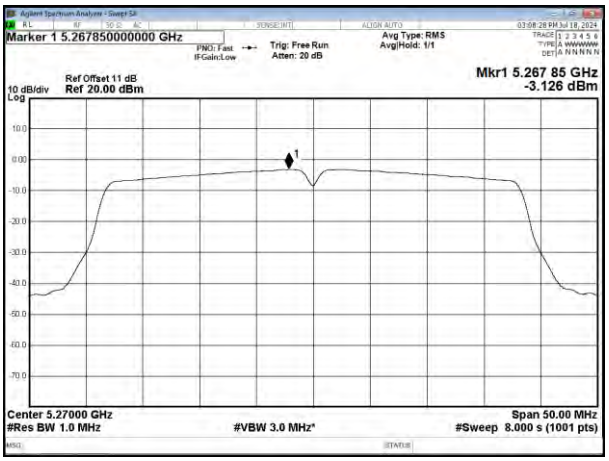
Modulation Standard: 802.11ac VHT20

CH52

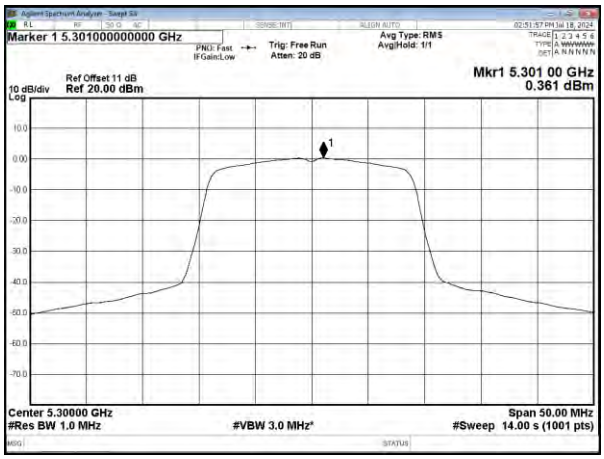


Modulation Standard: 802.11ac VHT40

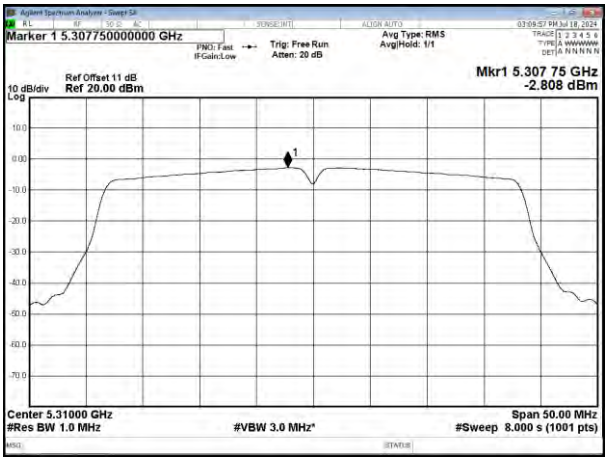
CH54



CH60



CH62



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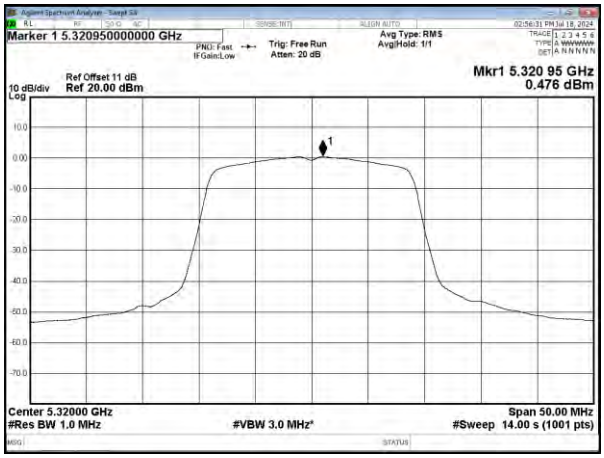
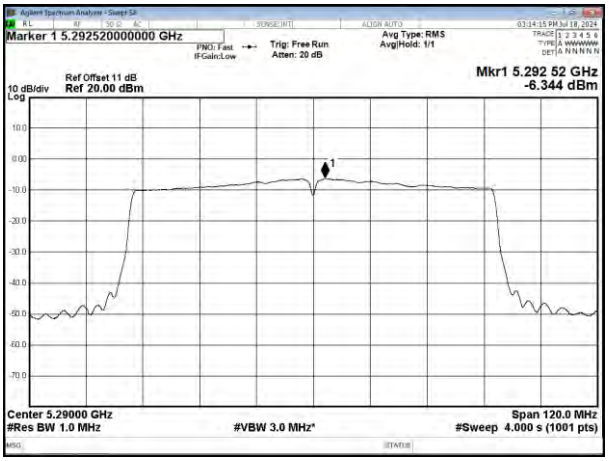


Modulation Standard: 802.11ac VHT80

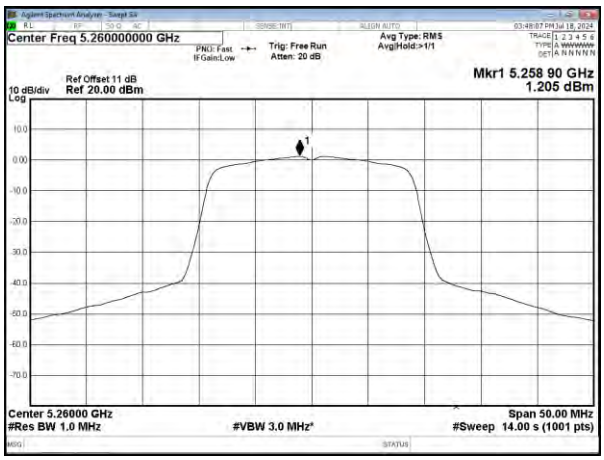
CH58



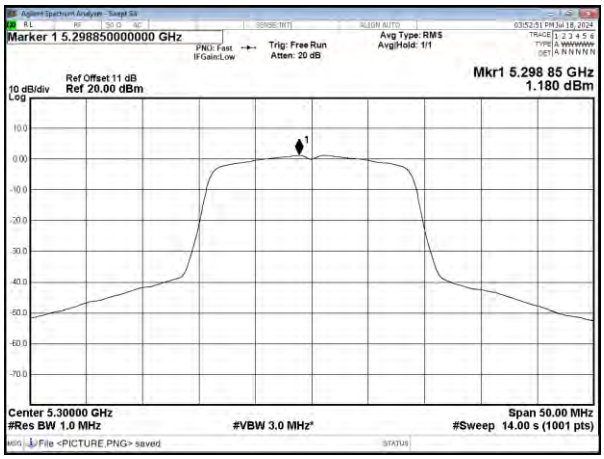
MIMO-ANT B

Modulation Standard: 802.11ac VHT20

CH52



CH60



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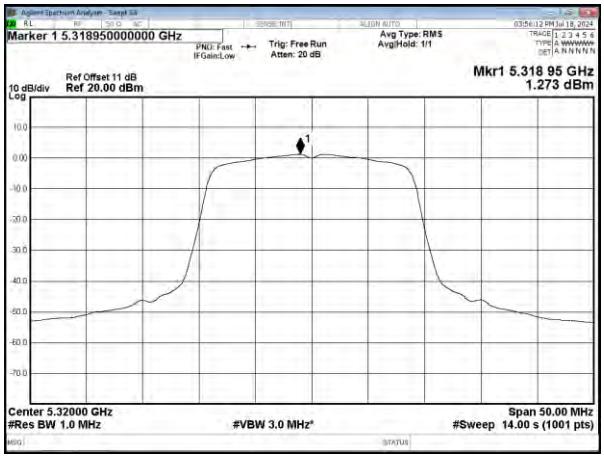
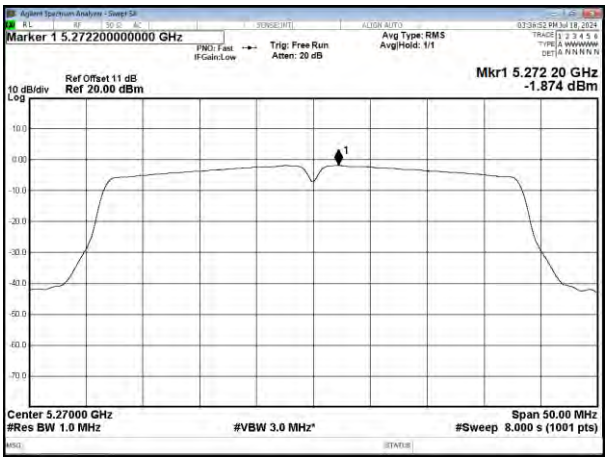
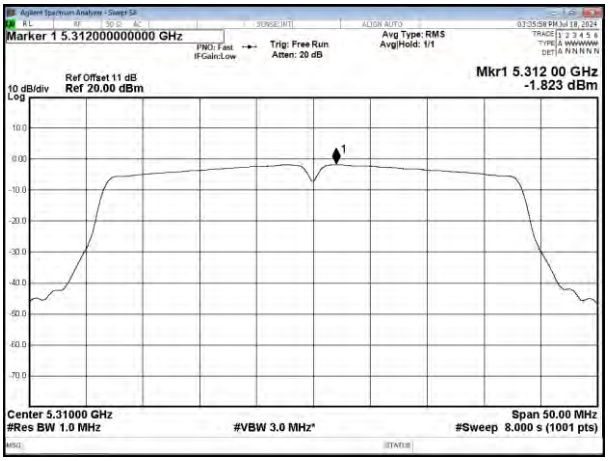


Modulation Standard: 802.11ac VHT40

CH54

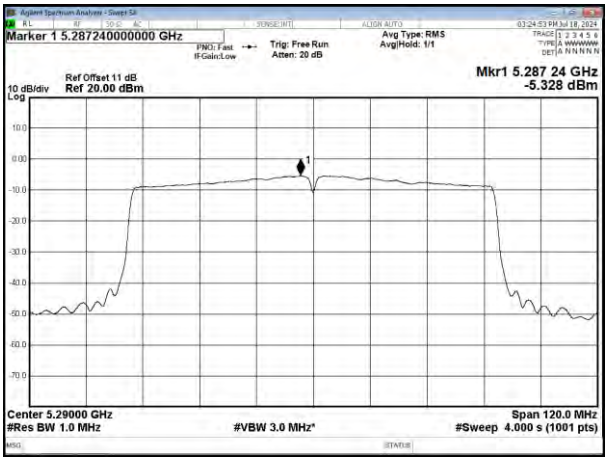


CH62



Modulation Standard: 802.11ac VHT80

CH58

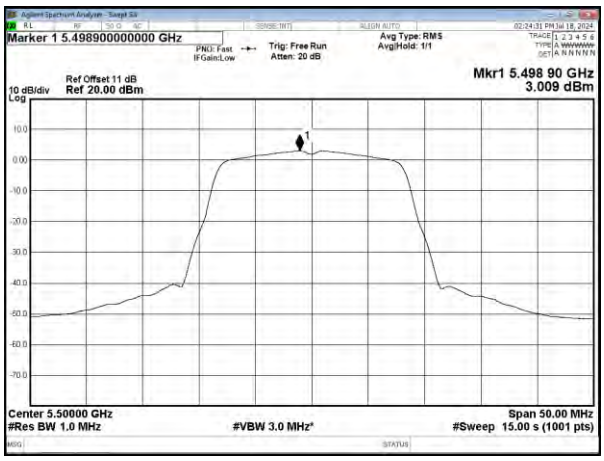


UNII-2C

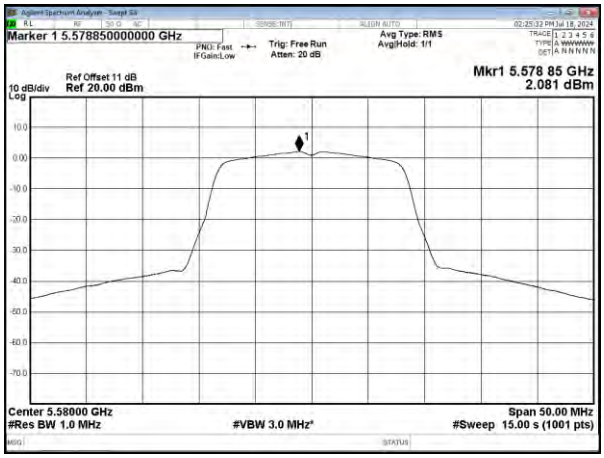
SISO-ANT A

Modulation Standard: 802.11a

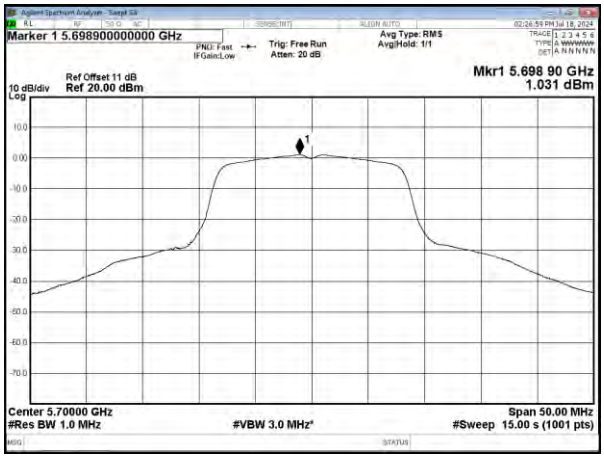
CH100



CH116



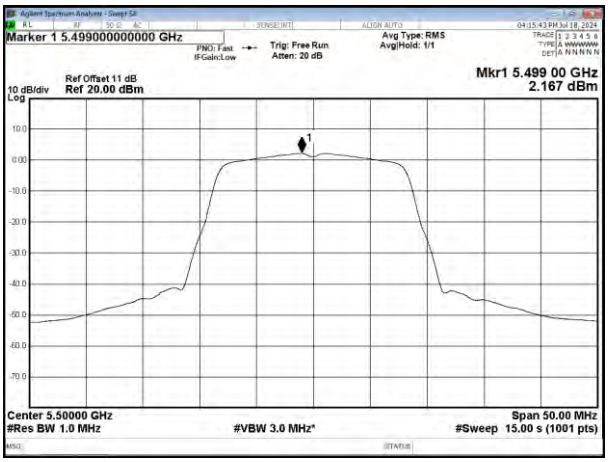
CH140



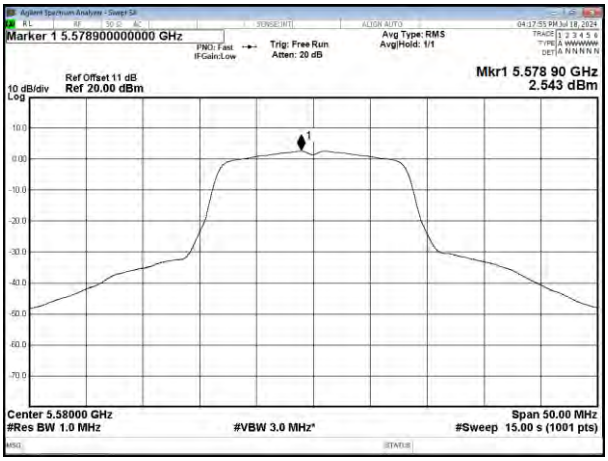
SISO-ANT B

Modulation Standard: 802.11a

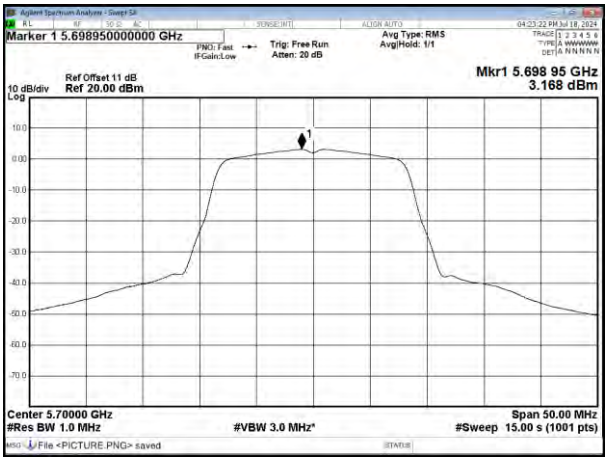
CH100



CH116



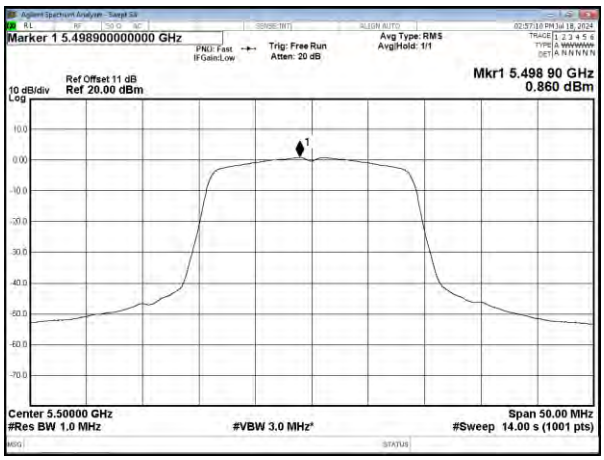
CH140



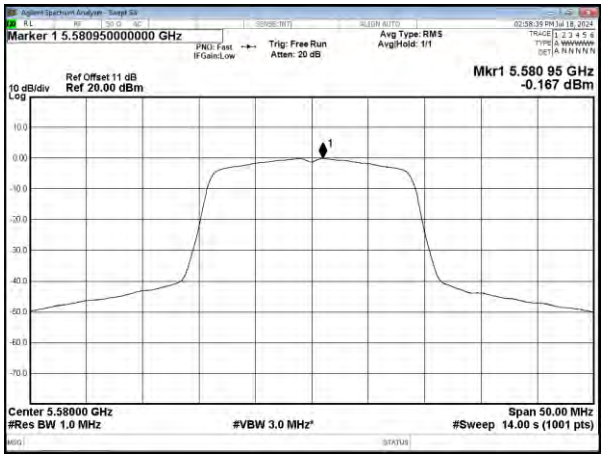
MIMO-ANT A

Modulation Standard: 802.11ac VHT20

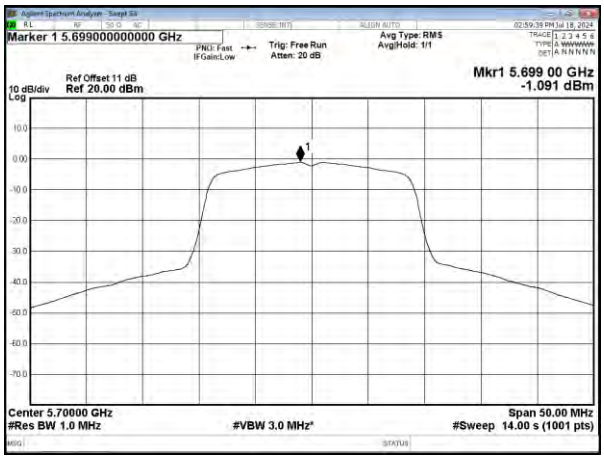
CH100



CH116

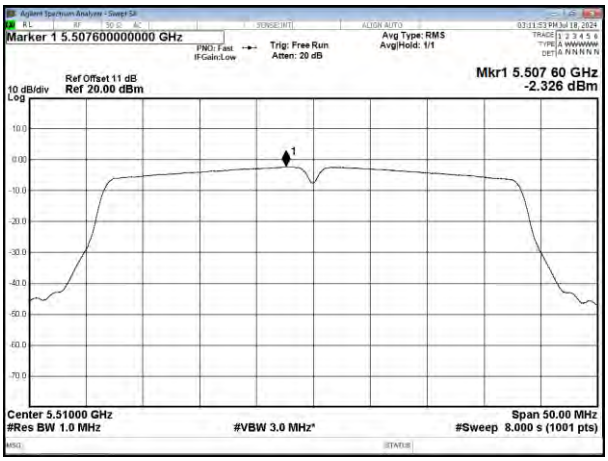


CH140

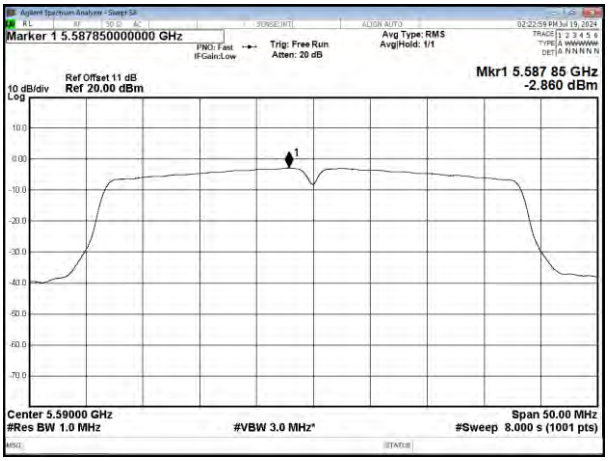


Modulation Standard: 802.11ac VHT40

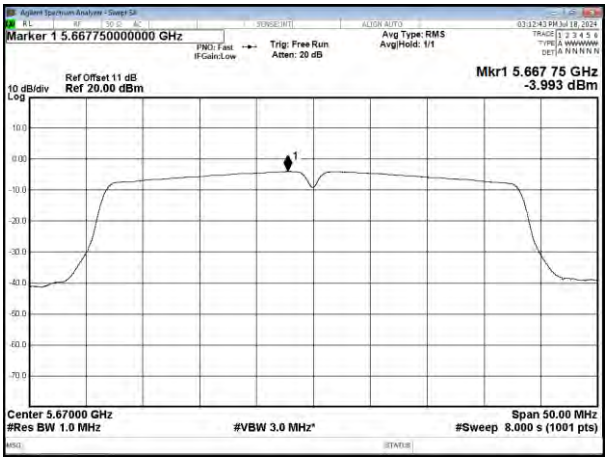
CH102



CH118

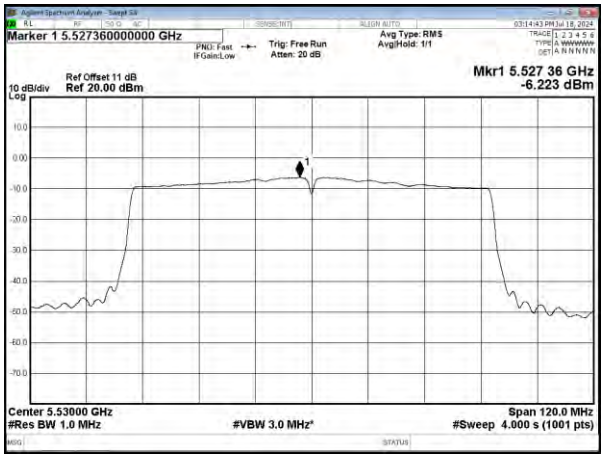


CH134

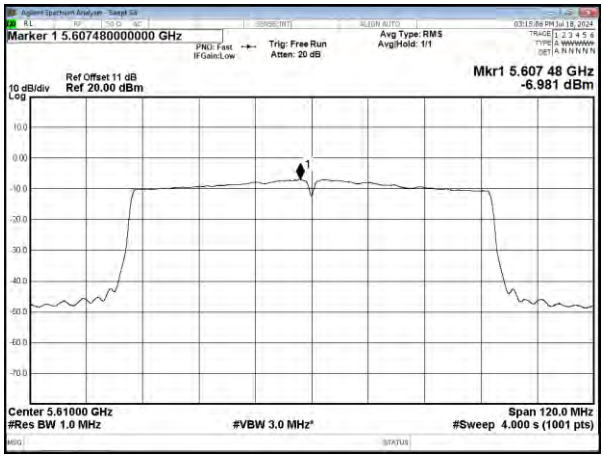


Modulation Standard: 802.11ac VHT80

CH106



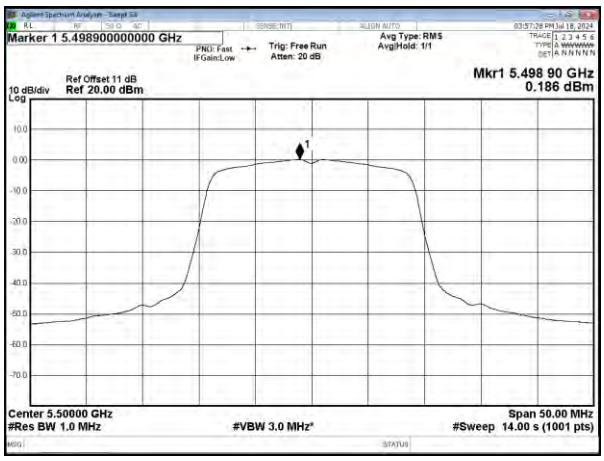
CH122



MIMO-ANT B

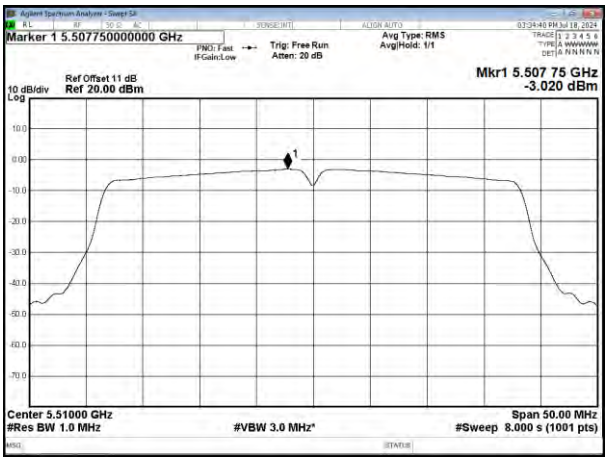
Modulation Standard: 802.11ac VHT20

CH100

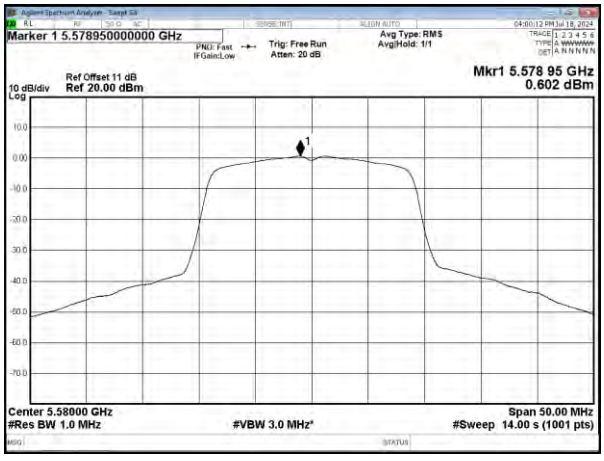


Modulation Standard: 802.11ac VHT40

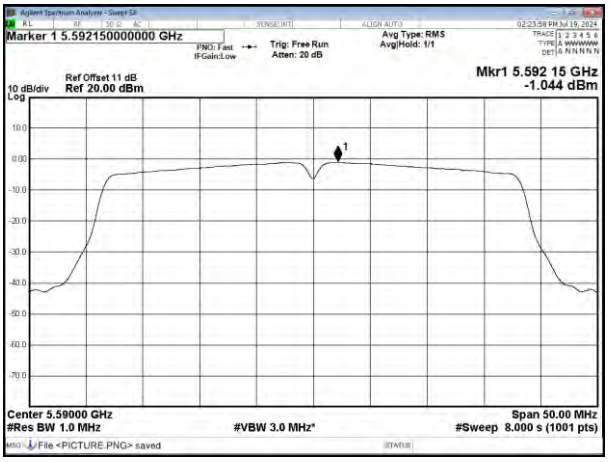
CH102



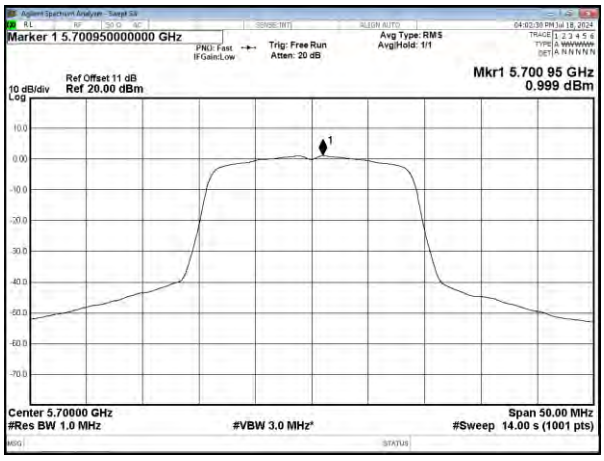
CH116



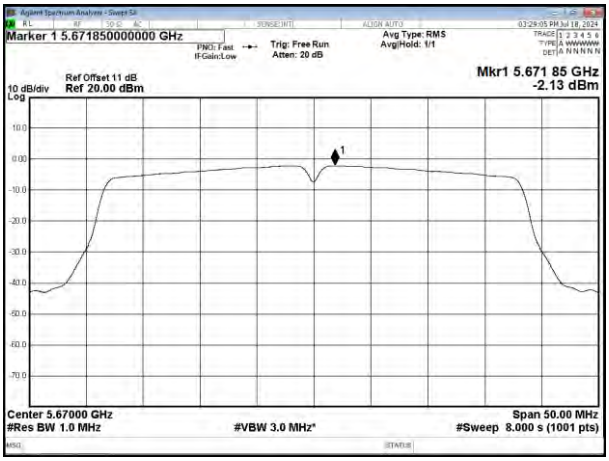
CH118



CH140

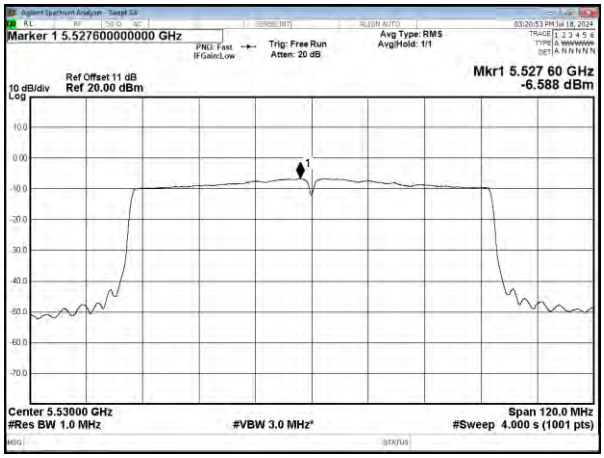


CH134

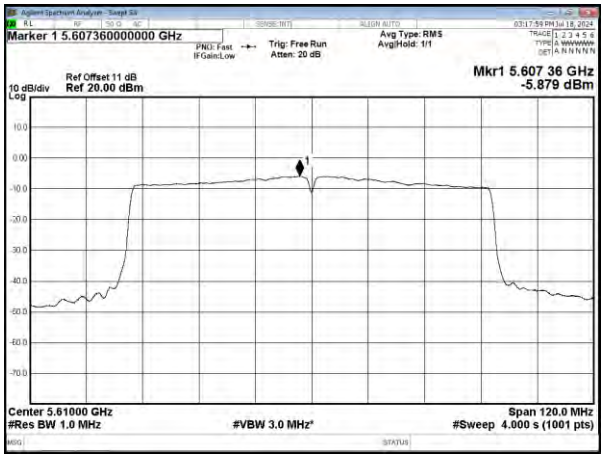


Modulation Standard: 802.11ac VHT80

CH106

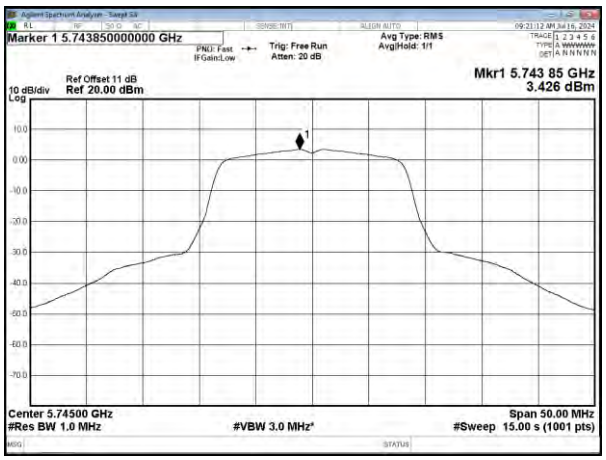


CH122

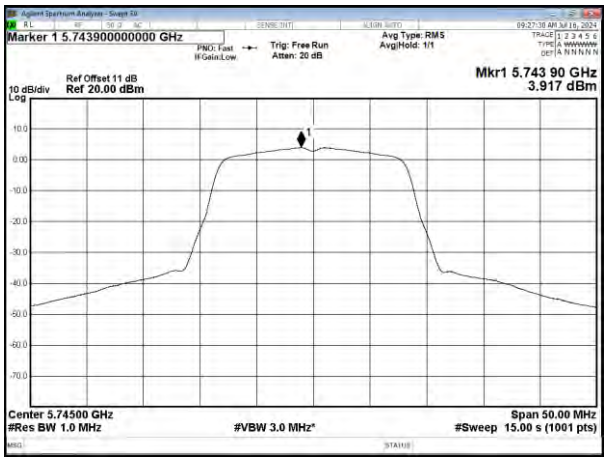


UNII-3

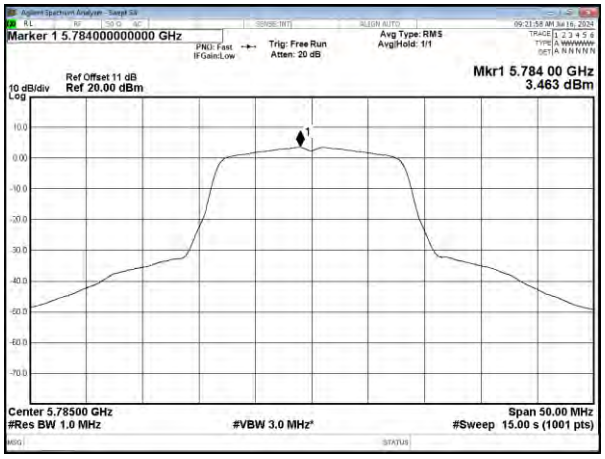
SISO-ANT A
Modulation Type: 802.11a
CH149



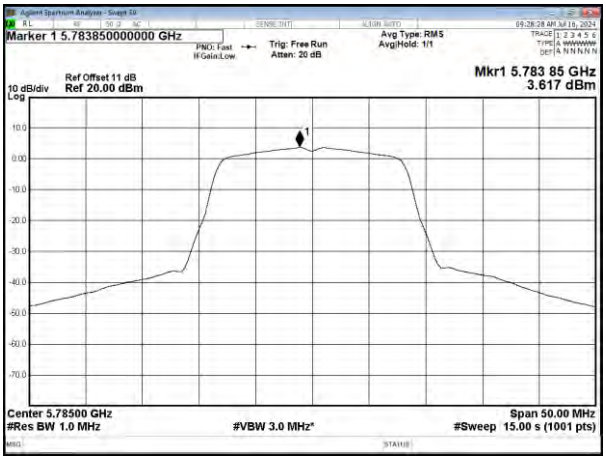
SISO-ANT B
Modulation Type: 802.11a
CH149



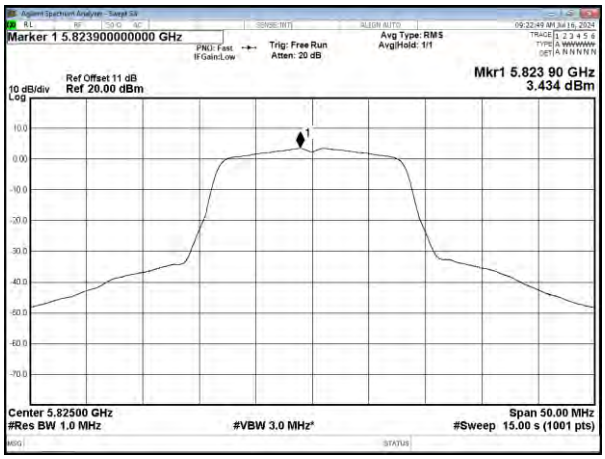
CH157



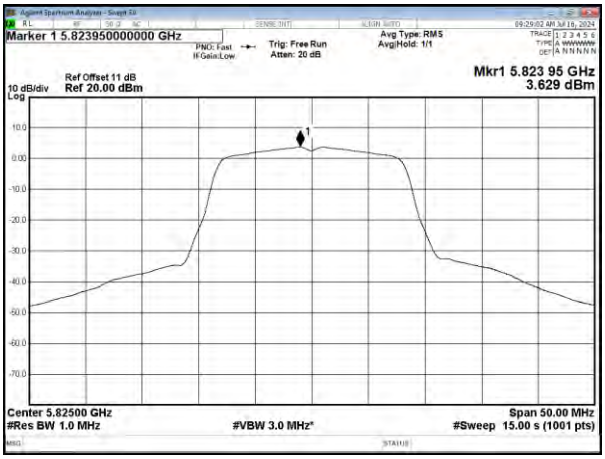
CH157



CH165

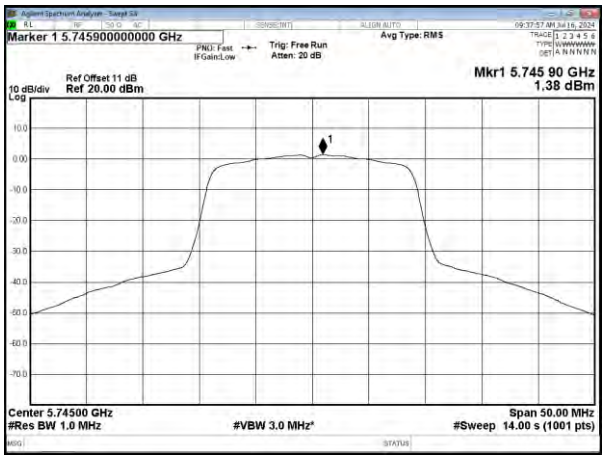


CH165

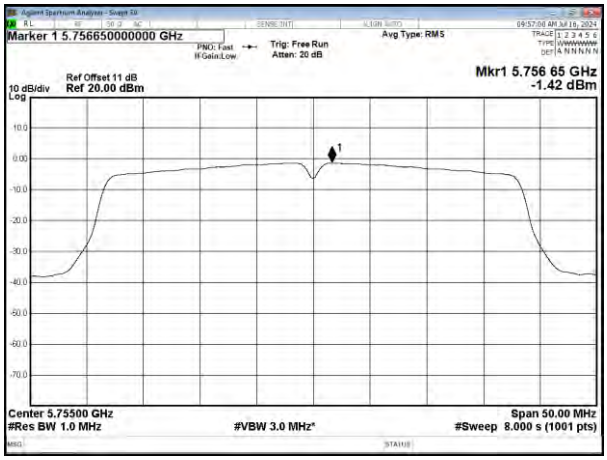


MIMO-ANT A

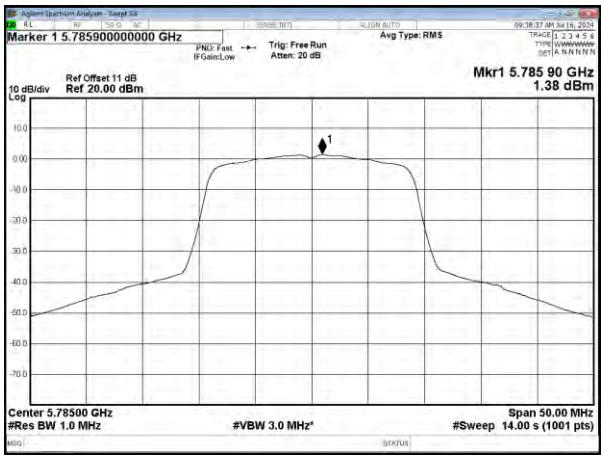
Modulation Type: 802.11ac, VHT20
CH149



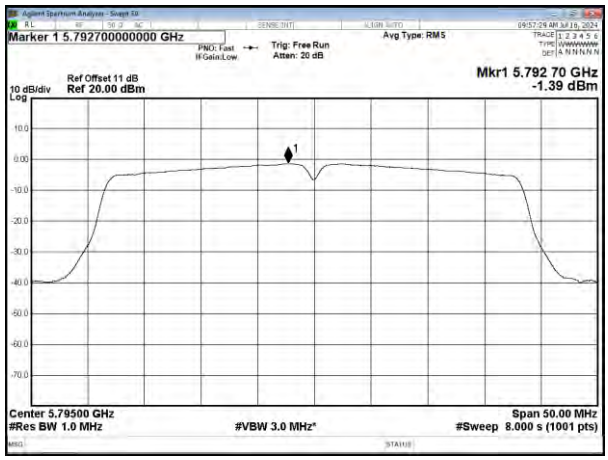
Modulation Type: 802.11ac, VHT40
CH151



CH157

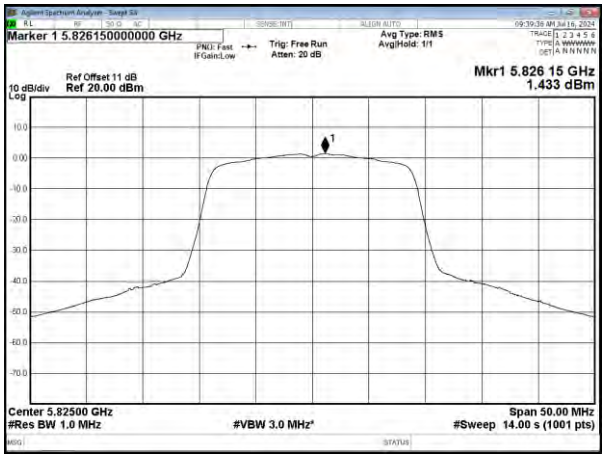


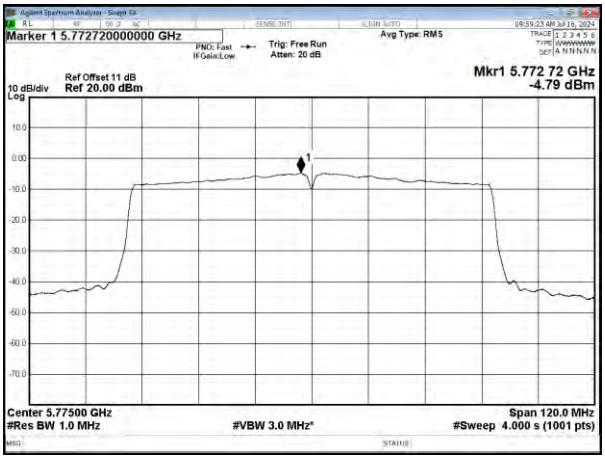
CH159



Modulation Type: 802.11ac, VHT80
CH155

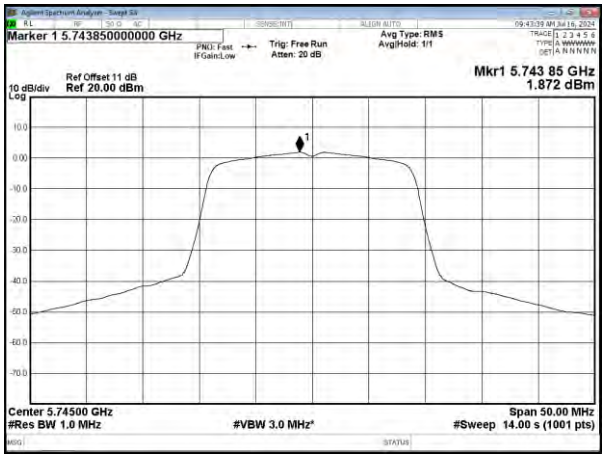
CH165



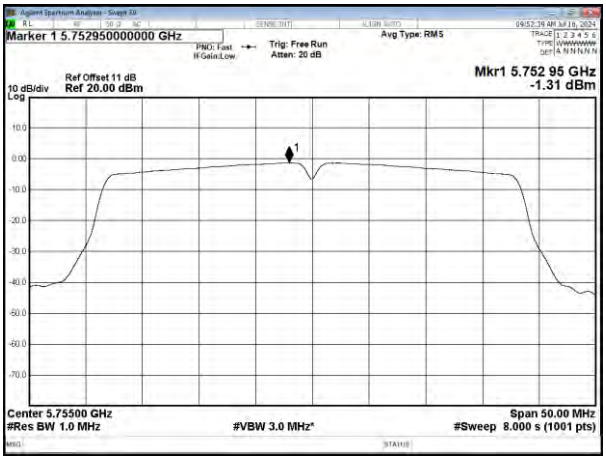


MIMO-ANT B

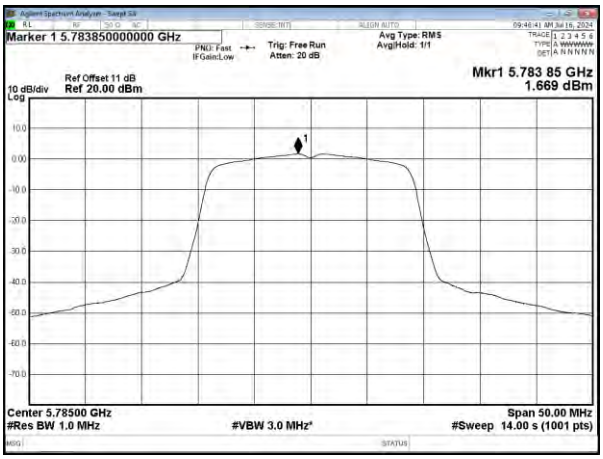
Modulation Type: 802.11ac, VHT20
CH149



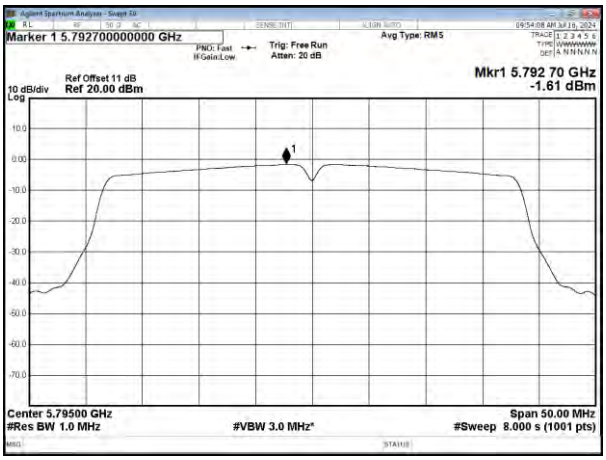
Modulation Type: 802.11ac, VHT40
CH151



CH157

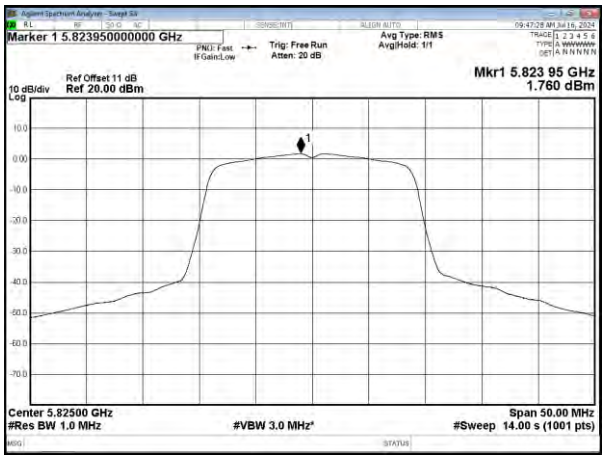


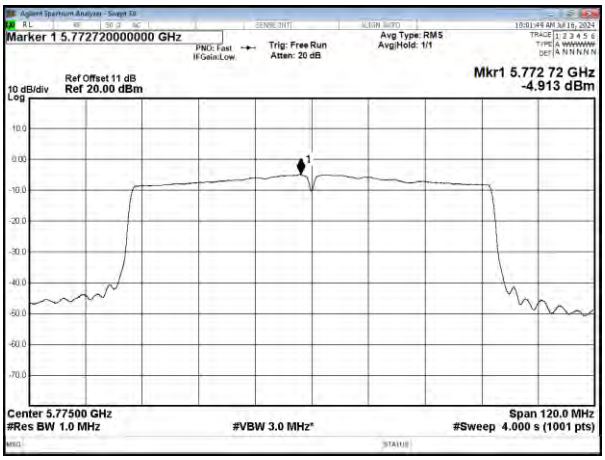
CH159



Modulation Type: 802.11ac, VHT80
CH155

CH165



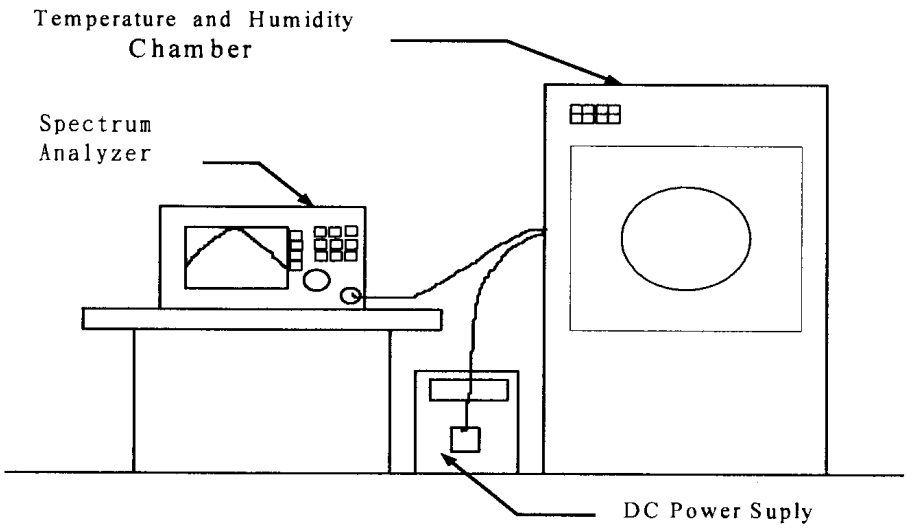


12. Frequency Stability

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	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	8.395	5179.9935	-0.000125	5179.9953	-0.000091	5180.0047	0.000091
	7.300	5179.9968	-0.000062	5179.9948	-0.000100	5180.0042	0.000081
	6.205	5179.9983	-0.000033	5179.9964	-0.000069	5180.0043	0.000083
20	8.395	5179.9952	-0.000093	5179.9944	-0.000108	5180.0062	0.000120
	7.300	5179.9971	-0.000056	5179.9981	-0.000037	5180.0056	0.000108
	6.205	5179.9914	-0.000166	5179.9979	-0.000041	5180.0024	0.000046
10	8.395	5179.9969	-0.000060	5179.9987	-0.000025	5180.0043	0.000083
	7.300	5179.9954	-0.000089	5179.9981	-0.000037	5180.0019	0.000037
	6.205	5179.9914	-0.000166	5179.9971	-0.000056	5180.0028	0.000054
0	8.395	5179.9987	-0.000025	5179.9942	-0.000112	5180.0054	0.000104
	7.300	5179.9965	-0.000068	5179.9947	-0.000102	5180.0058	0.000112
	6.205	5179.9961	-0.000075	5179.9963	-0.000071	5180.0015	0.000029

Operating frequency: 5260 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	8.395	5259.99534	-0.000090	5259.9948	-0.000100	5260.0069	0.000133
	7.300	5259.9946	-0.000104	5259.9927	-0.000141	5260.0055	0.000106
	6.205	5259.9928	-0.000139	5259.9925	-0.000145	5260.043	0.000830
20	8.395	5259.9991	-0.000017	5259.9949	-0.000098	5260.0057	0.000110
	7.300	5259.9924	-0.000147	5259.9935	-0.000125	5260.0047	0.000091
	6.205	5259.9933	-0.000129	5259.9941	-0.000114	5260.0062	0.000120
10	8.395	5259.9914	-0.000166	5259.9932	-0.000131	5260.0058	0.000112
	7.300	5259.9947	-0.000102	5259.9917	-0.000160	5260.0029	0.000056
	6.205	5259.9941	-0.000114	5259.9944	-0.000108	5260.0013	0.000025
0	8.395	5259.9973	-0.000052	5259.9947	-0.000102	5260.0043	0.000083
	7.300	5259.9915	-0.000164	5259.9923	-0.000149	5260.0055	0.000106
	6.205	5259.9964	-0.000069	5259.9955	-0.000087	5260.0041	0.000079

Operating frequency: 5500 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	8.395	5500.0051	0.000098	5500.0043	0.000083	5500.0017	0.000033
	7.300	5500.0016	0.000031	5500.0073	0.000141	5500.0018	0.000035
	6.205	5500.0008	0.000015	5500.0039	0.000075	5500.0014	0.000027
20	8.395	5500.0026	0.000050	5500.0047	0.000091	5500.0029	0.000056
	7.300	5500.0011	0.000021	5500.0053	0.000102	5500.0015	0.000029
	6.205	5500.0012	0.000023	5500.0022	0.000042	5500.0041	0.000079
10	8.395	5500.0039	0.000075	5500.0045	0.000087	5500.0014	0.000027
	7.300	5500.0035	0.000068	5500.0014	0.000027	5500.0023	0.000044
	6.205	5500.0042	0.000081	5500.0026	0.000050	5500.0018	0.000035
0	8.395	5500.0017	0.000033	5500.0031	0.000060	5500.0014	0.000027
	7.300	5500.0028	0.000054	5500.0024	0.000046	5500.0023	0.000044
	6.205	5500.0016	0.000031	5500.0035	0.000068	5500.0014	0.000027

Operating frequency: 5745 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(℃)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
35	8.395	5744.9945	-0.000106	5744.9924	-0.000147	5744.9918	-0.000158
	7.300	5744.9932	-0.000131	5744.9928	-0.000139	5744.9926	-0.000143
	6.205	5744.9947	-0.000102	5744.9942	-0.000112	5744.9942	-0.000112
20	8.395	5744.9918	-0.000158	5744.9917	-0.000160	5744.9909	-0.000176
	7.300	5744.9933	-0.000129	5744.9938	-0.000120	5744.9957	-0.000083
	6.205	5744.9931	-0.000133	5744.9924	-0.000147	5744.9931	-0.000133
10	8.395	5744.9945	-0.000106	5744.9941	-0.000114	5744.9958	-0.000081
	7.300	5744.9973	-0.000052	5744.9937	-0.000122	5744.9947	-0.000102
	6.205	5744.9968	-0.000062	5744.9942	-0.000112	5744.9933	-0.000129
0	8.395	5744.9946	-0.000104	5744.9943	-0.000110	5744.9948	-0.000100
	7.300	5744.9947	-0.000102	5744.9924	-0.000147	5744.9965	-0.000068
	6.205	5744.9938	-0.000120	5744.9921	-0.000153	5744.9927	-0.000141

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 ----------