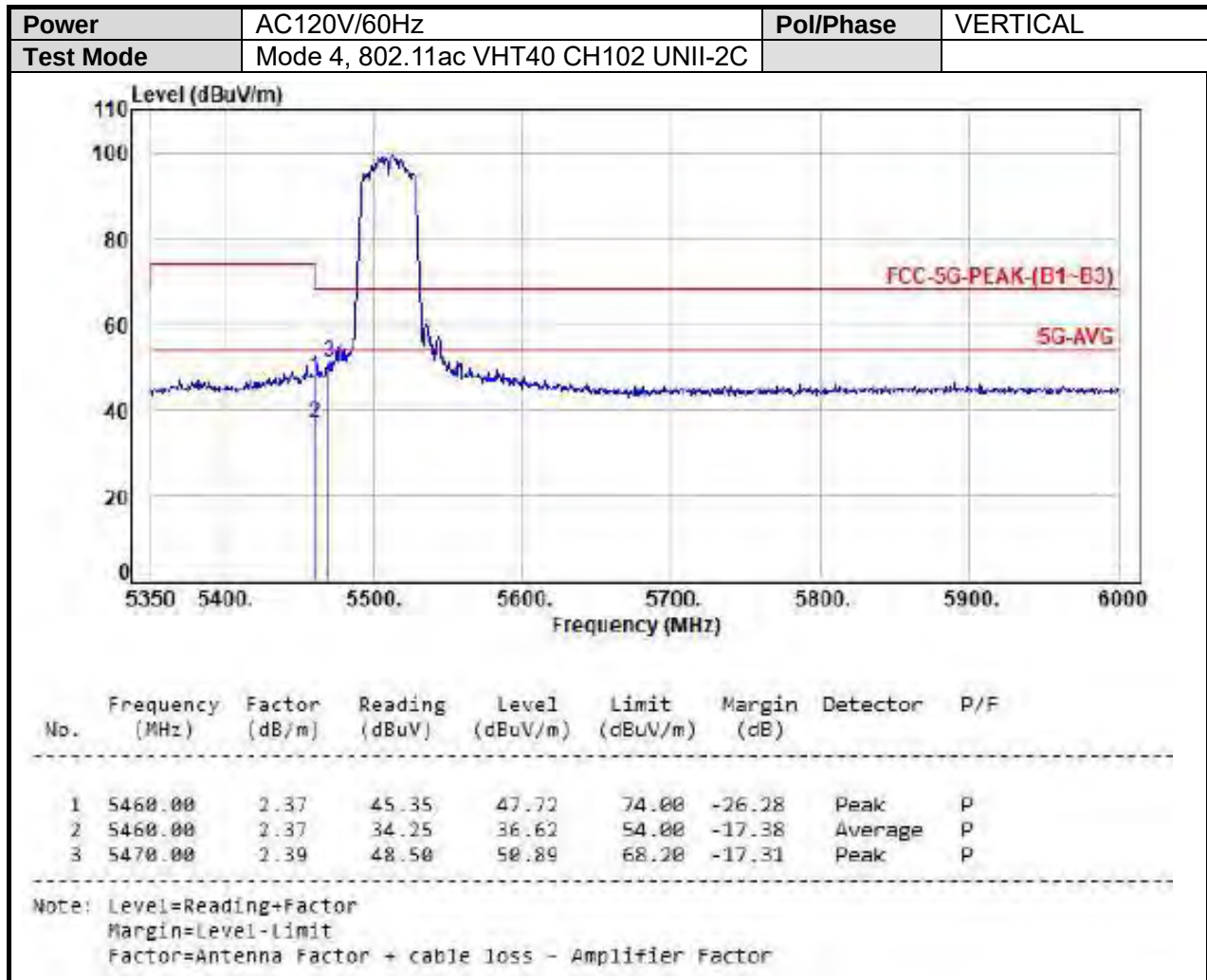
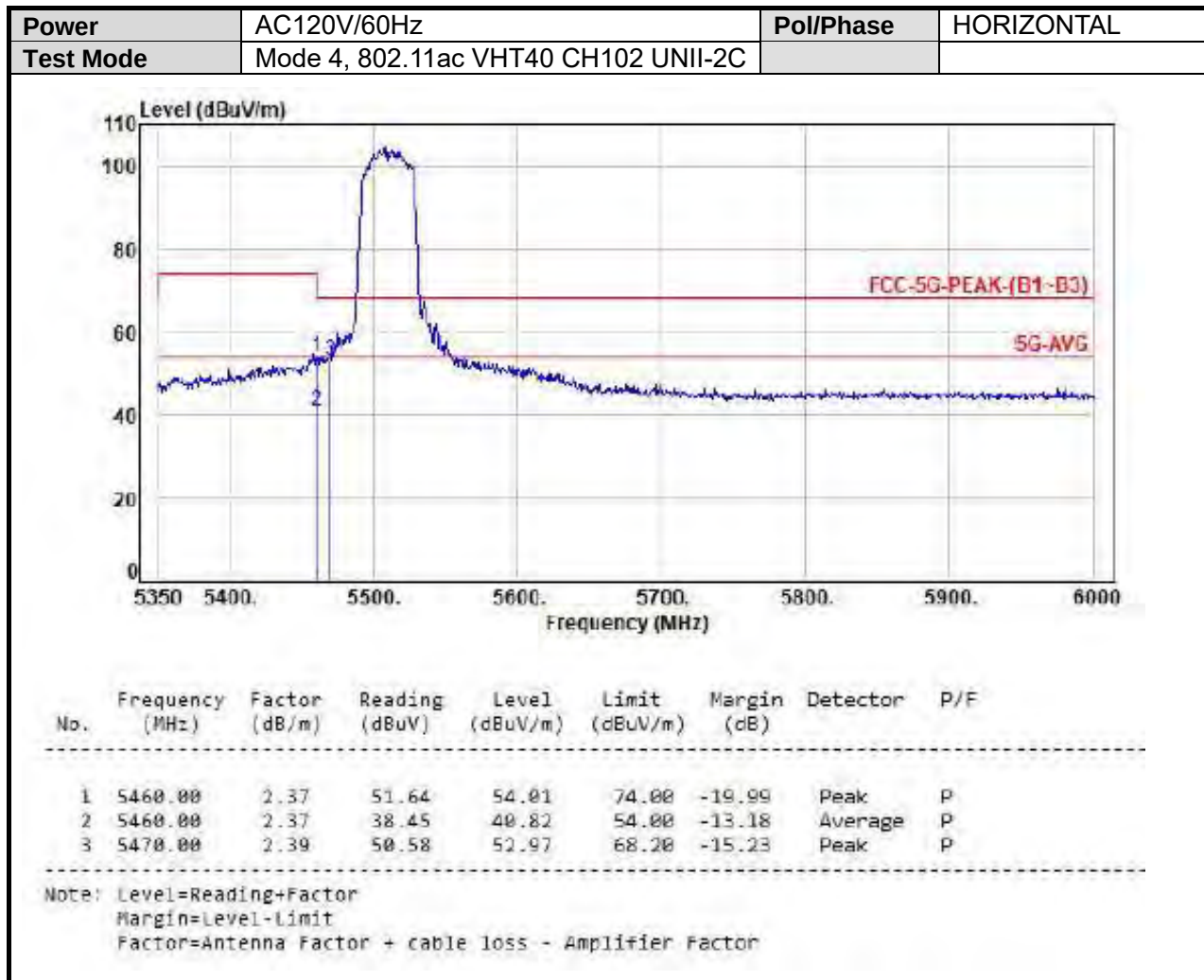
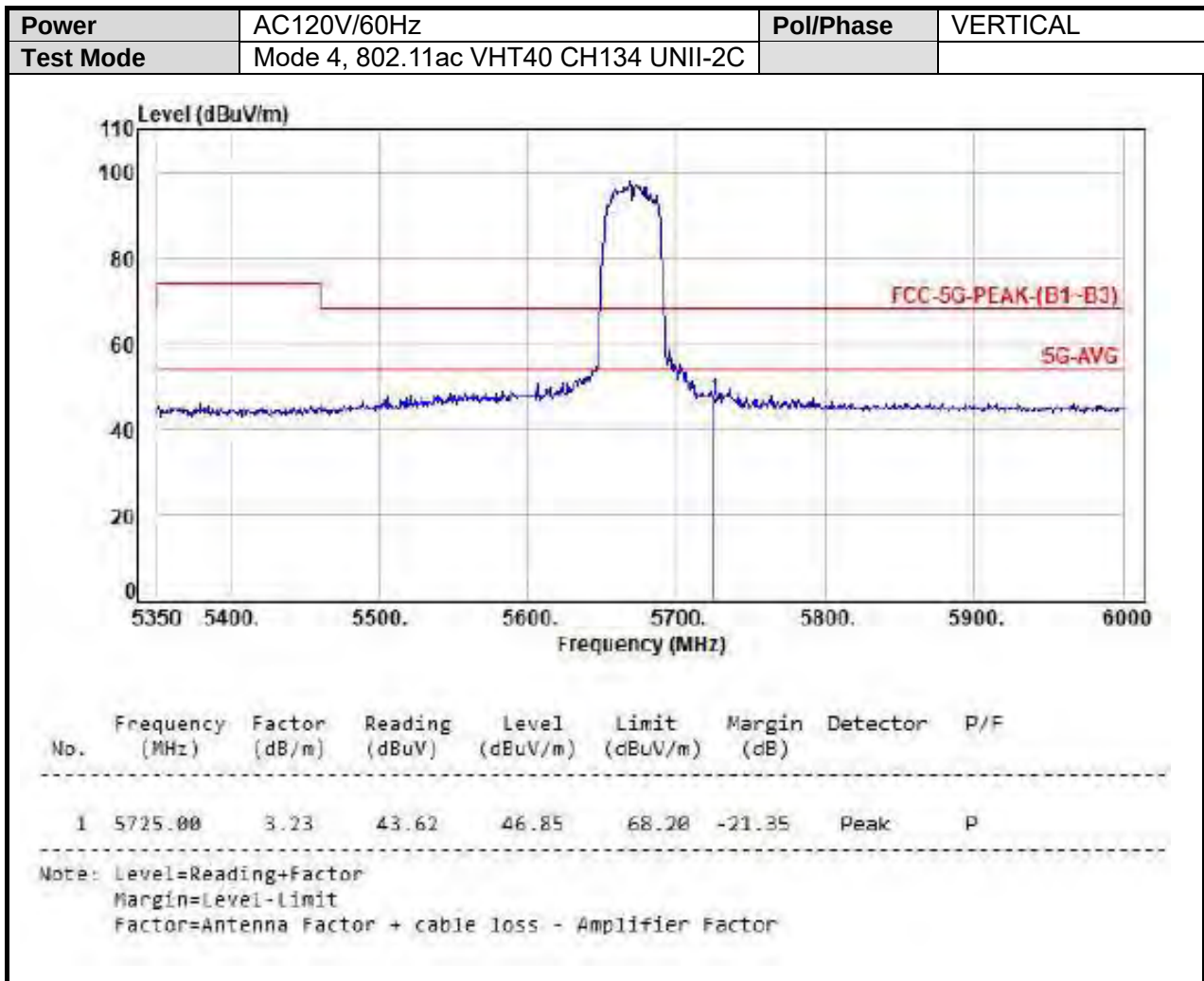
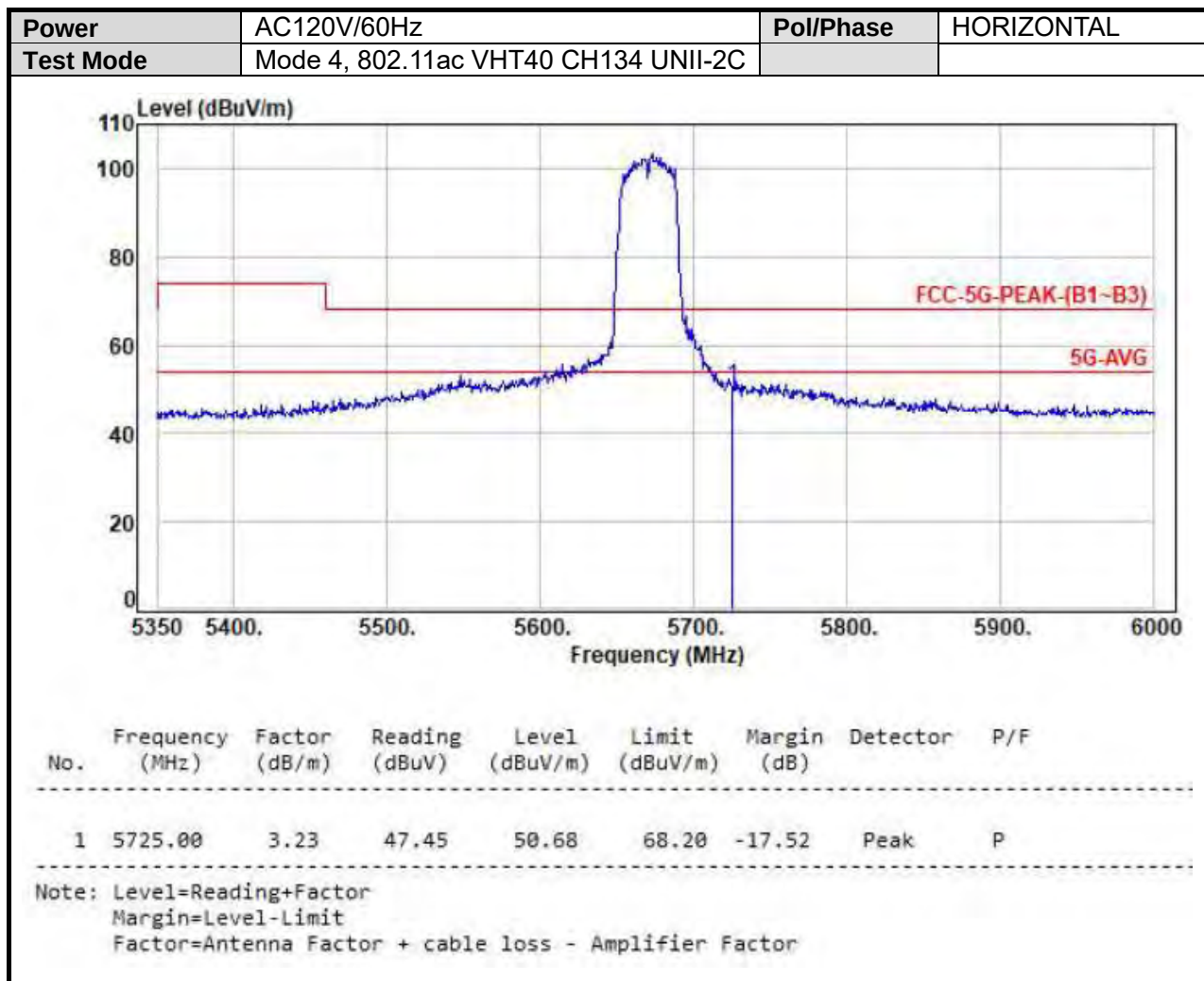
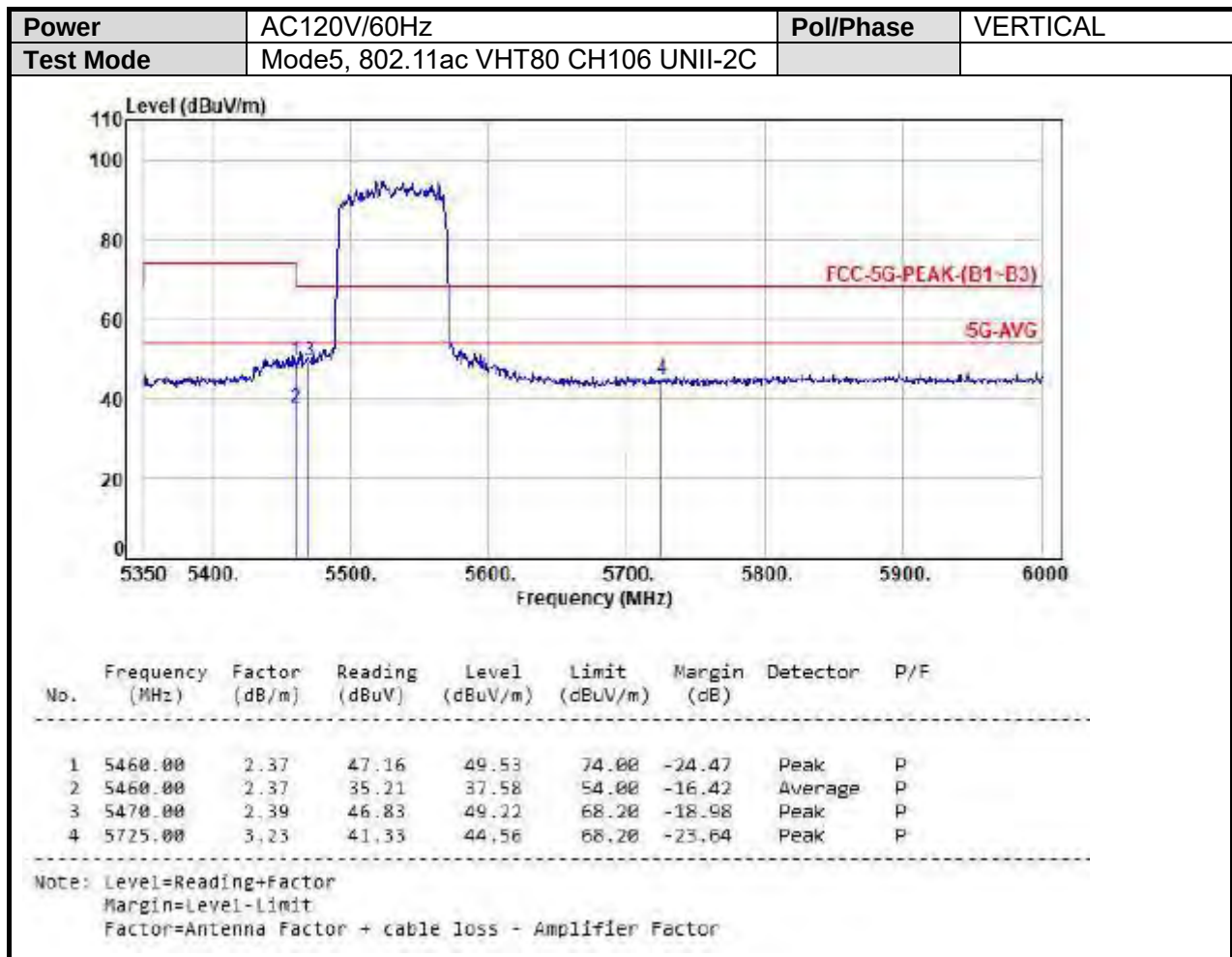


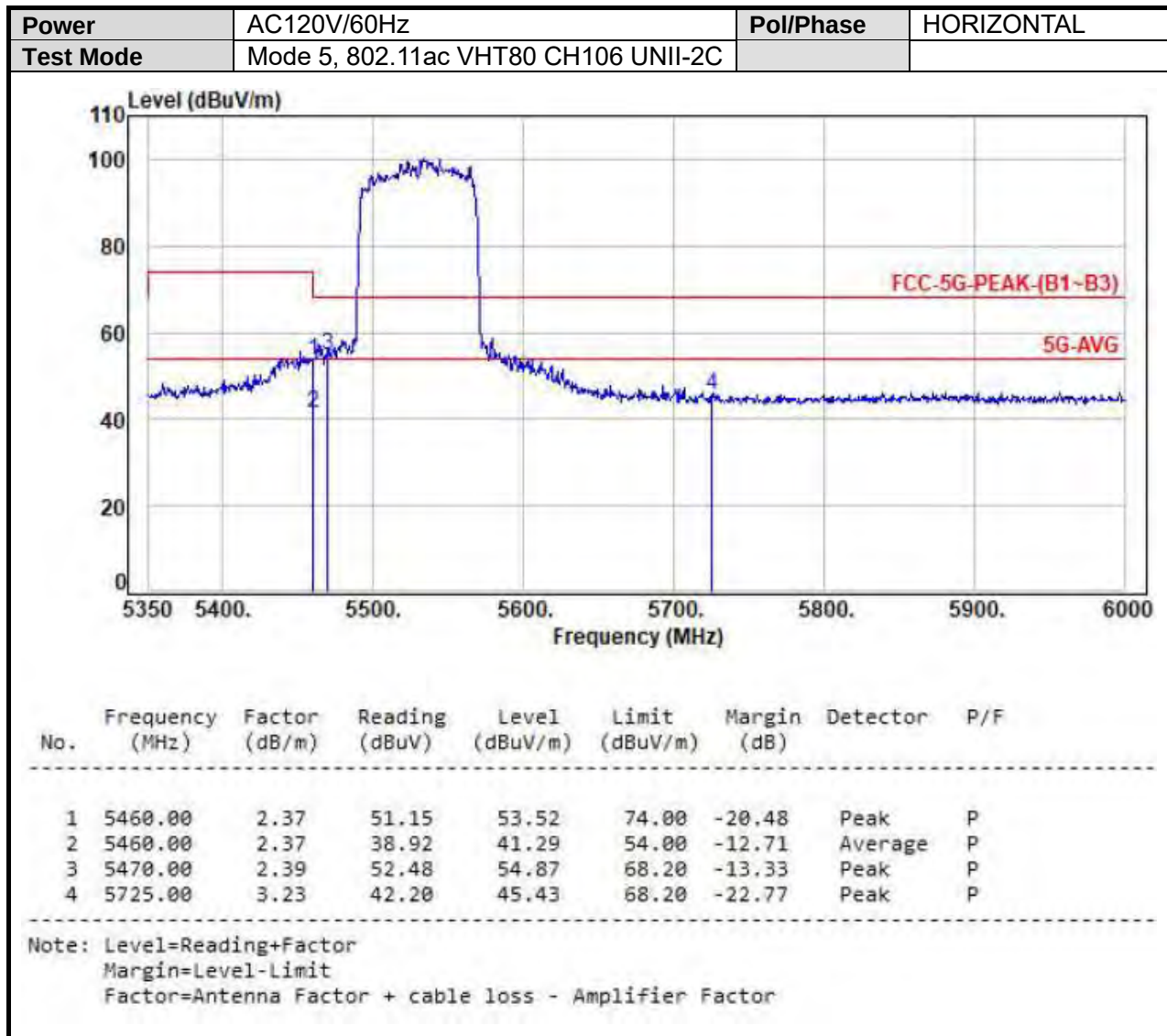


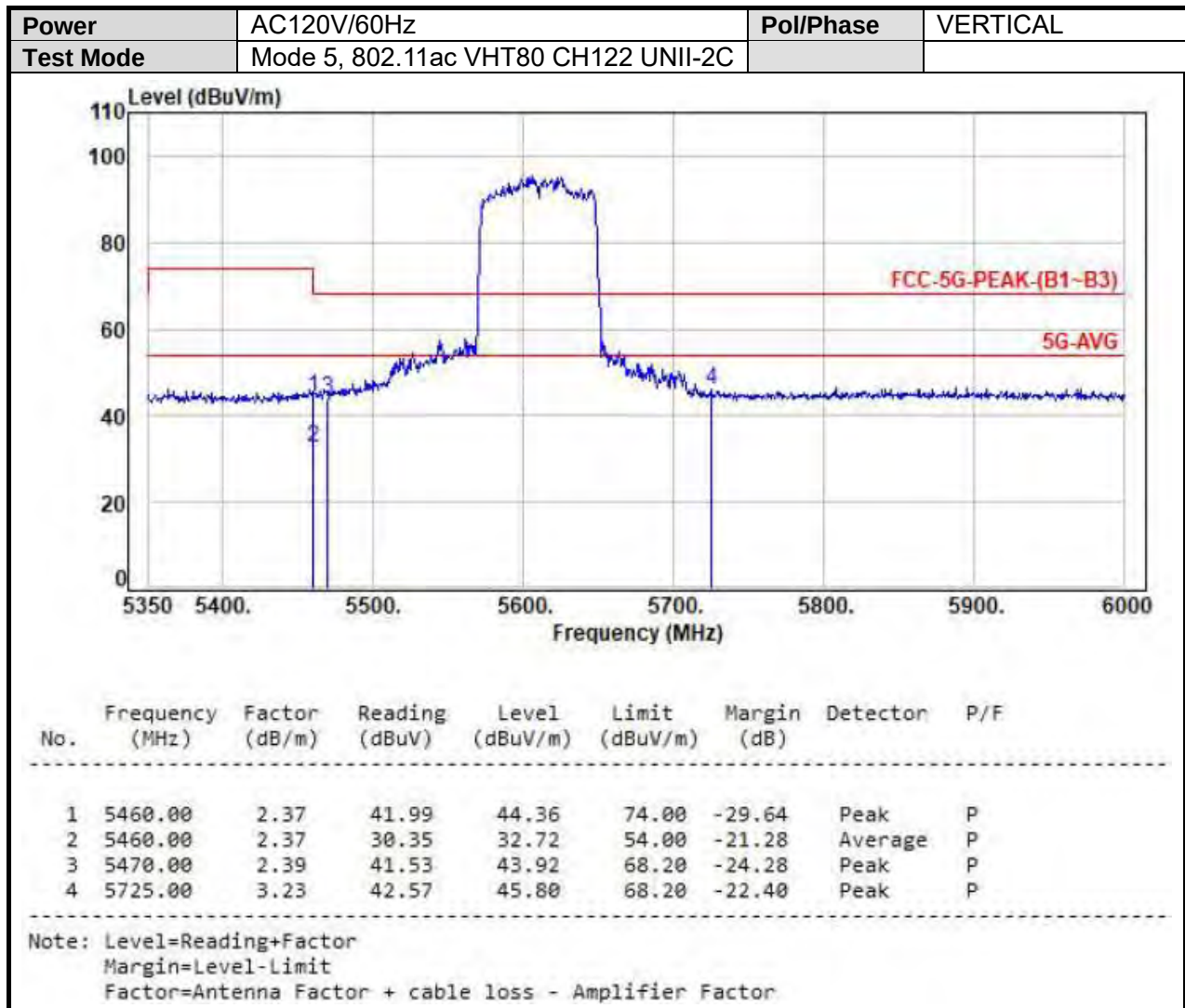


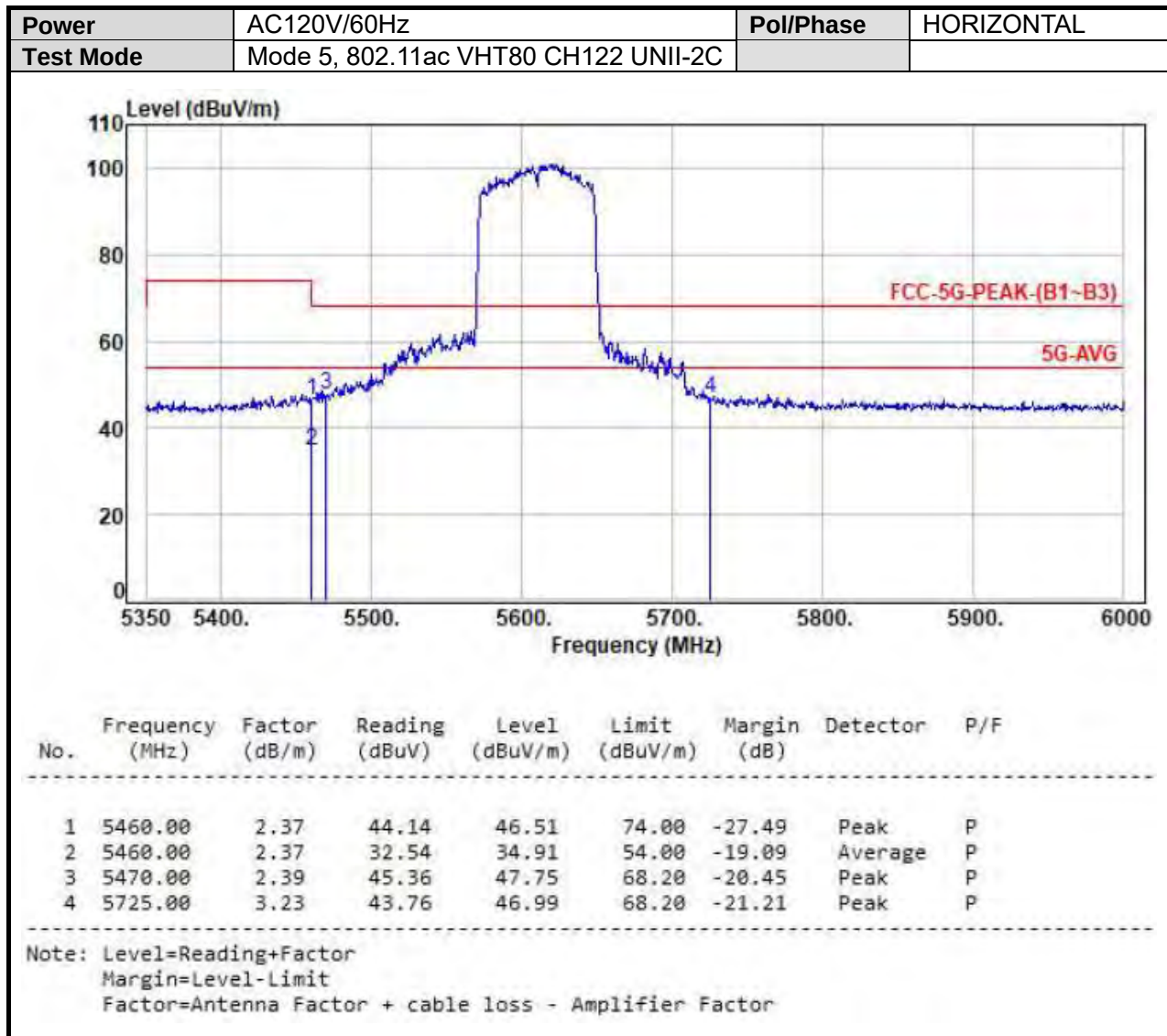


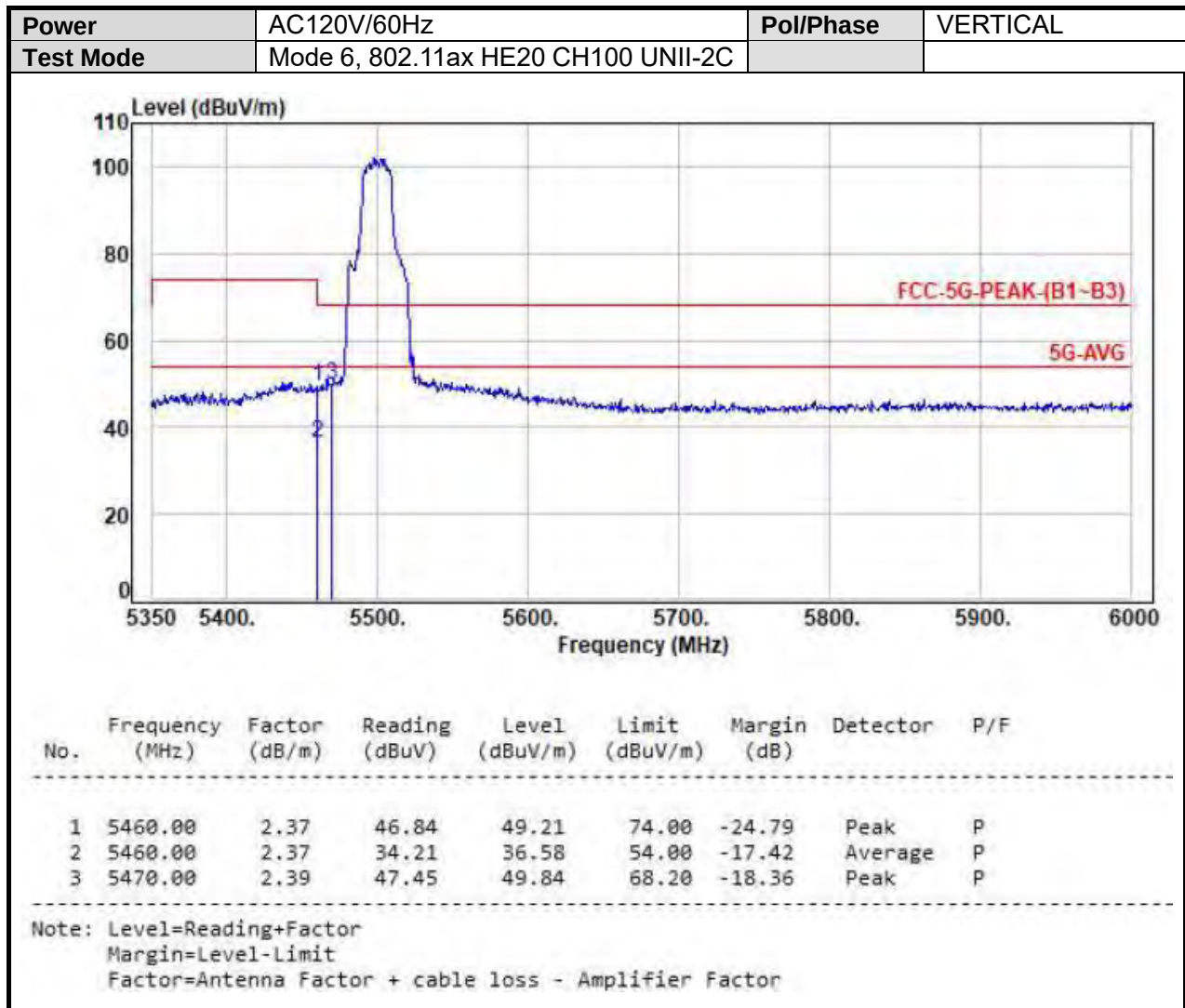


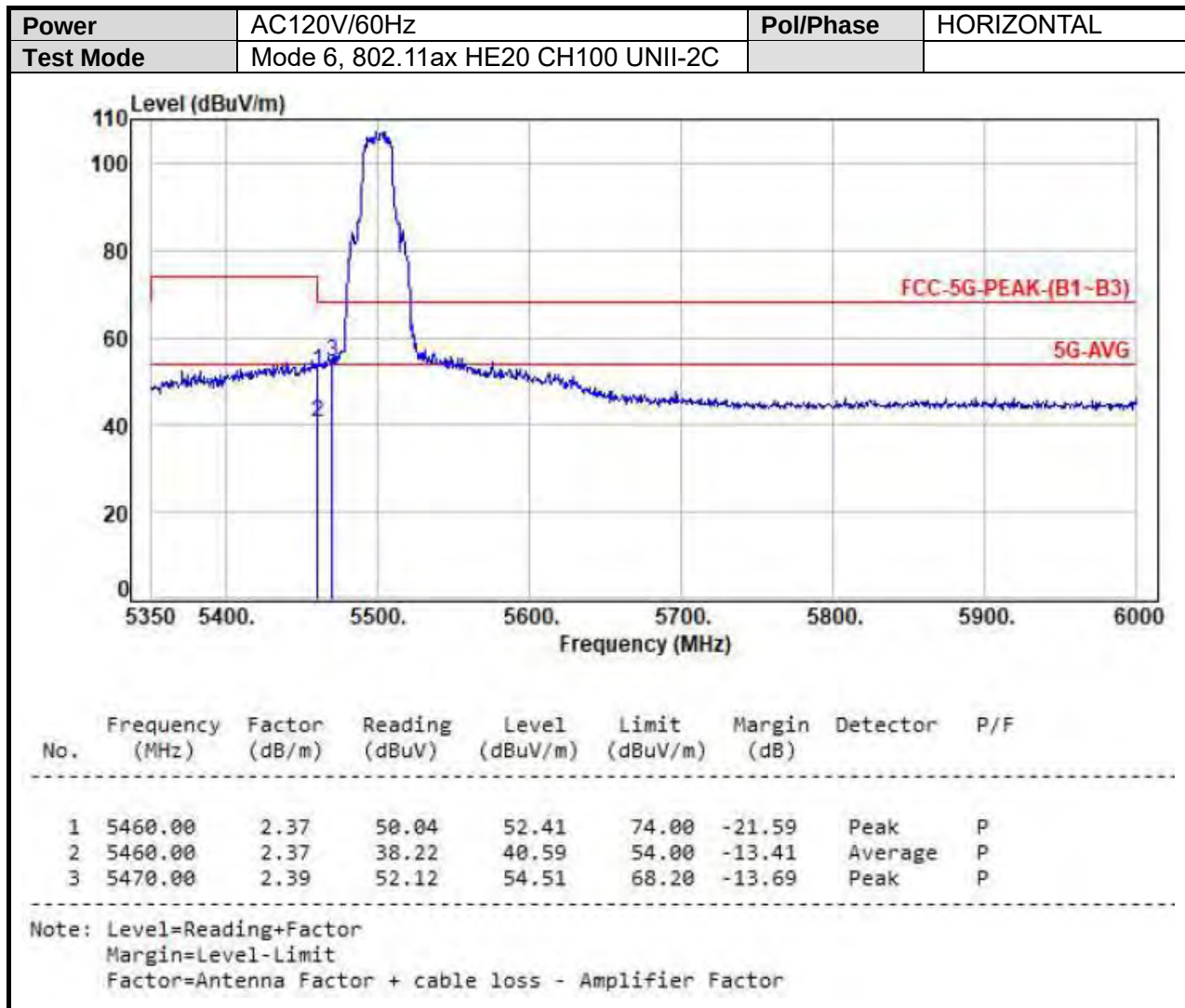


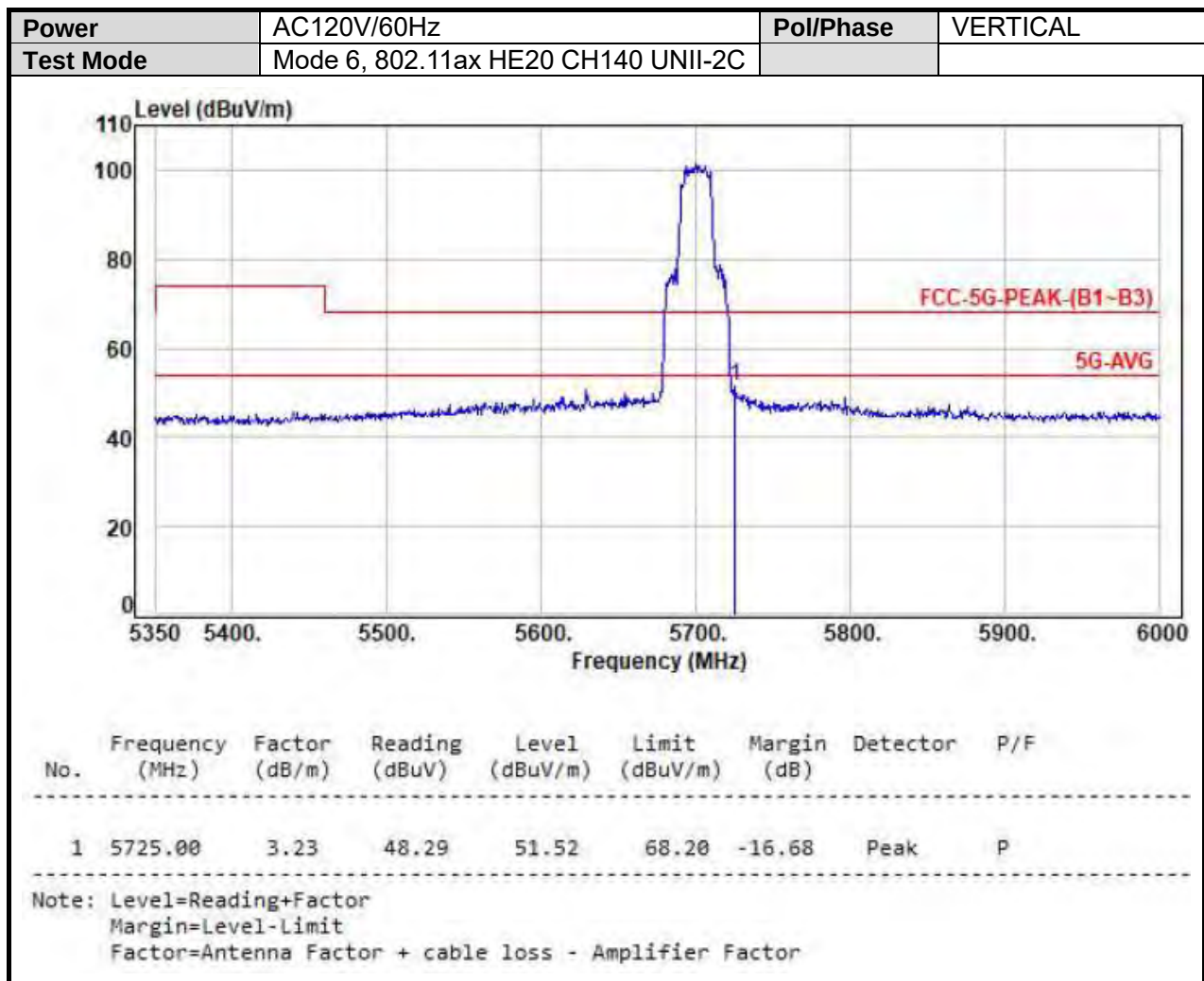


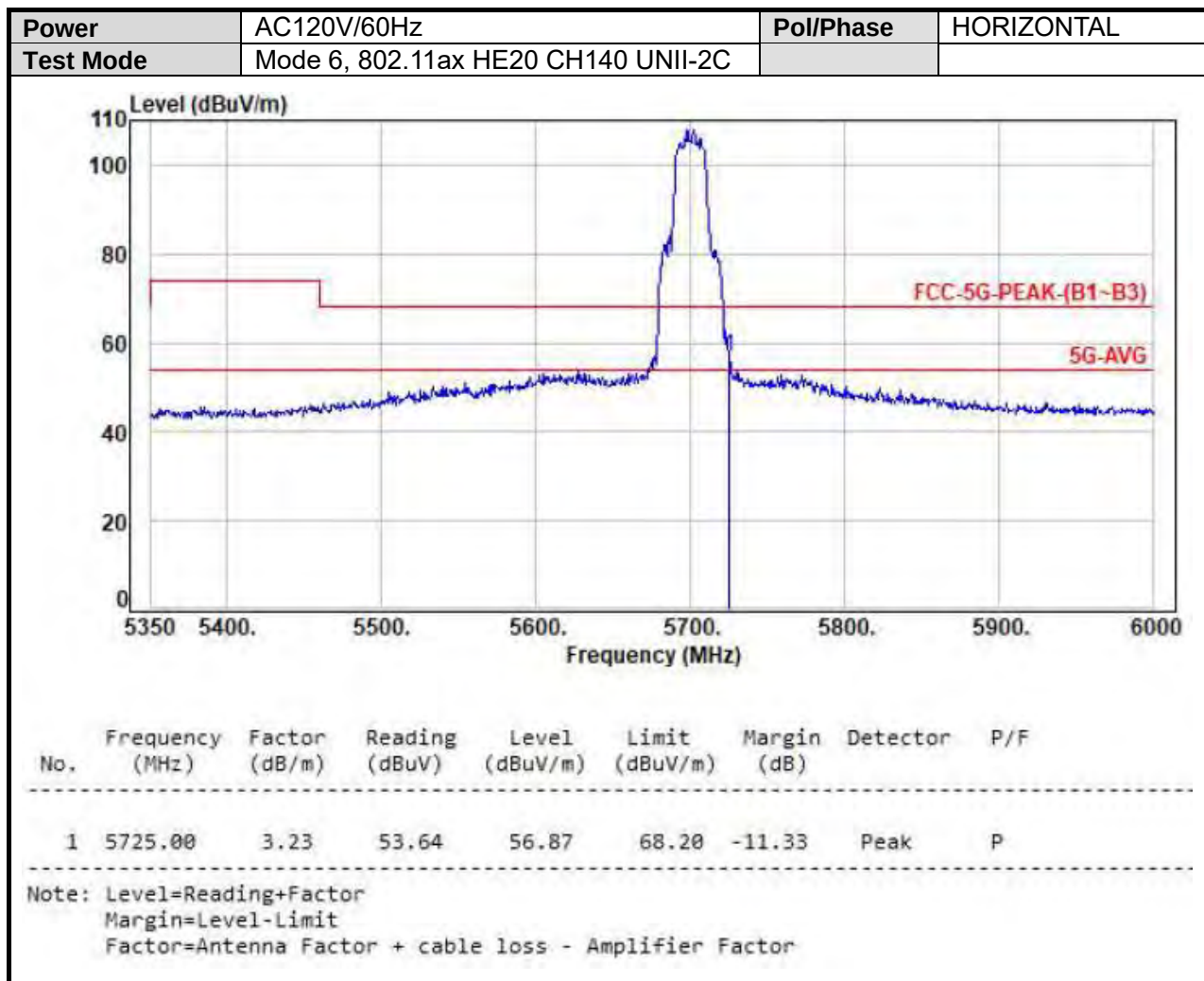


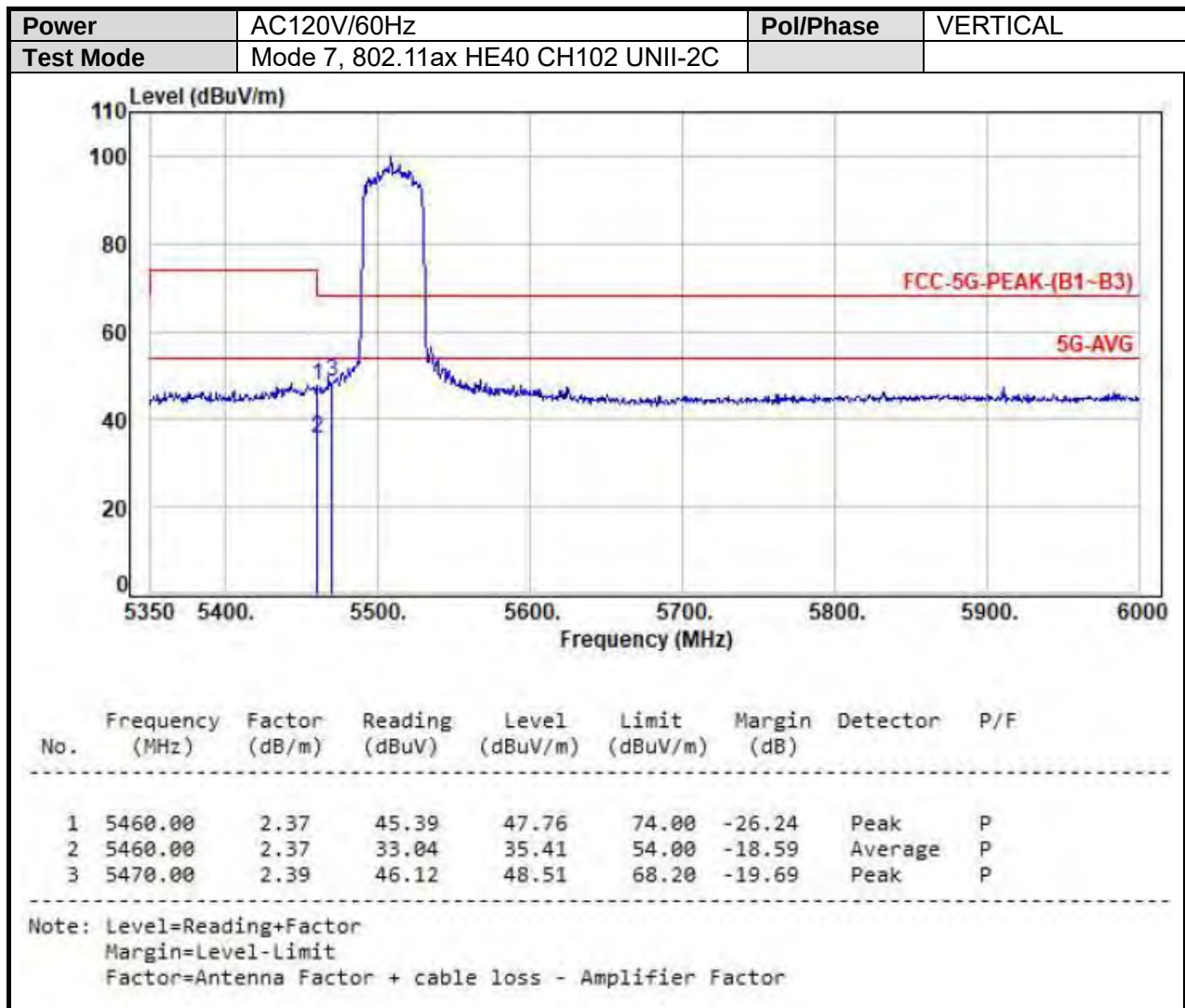


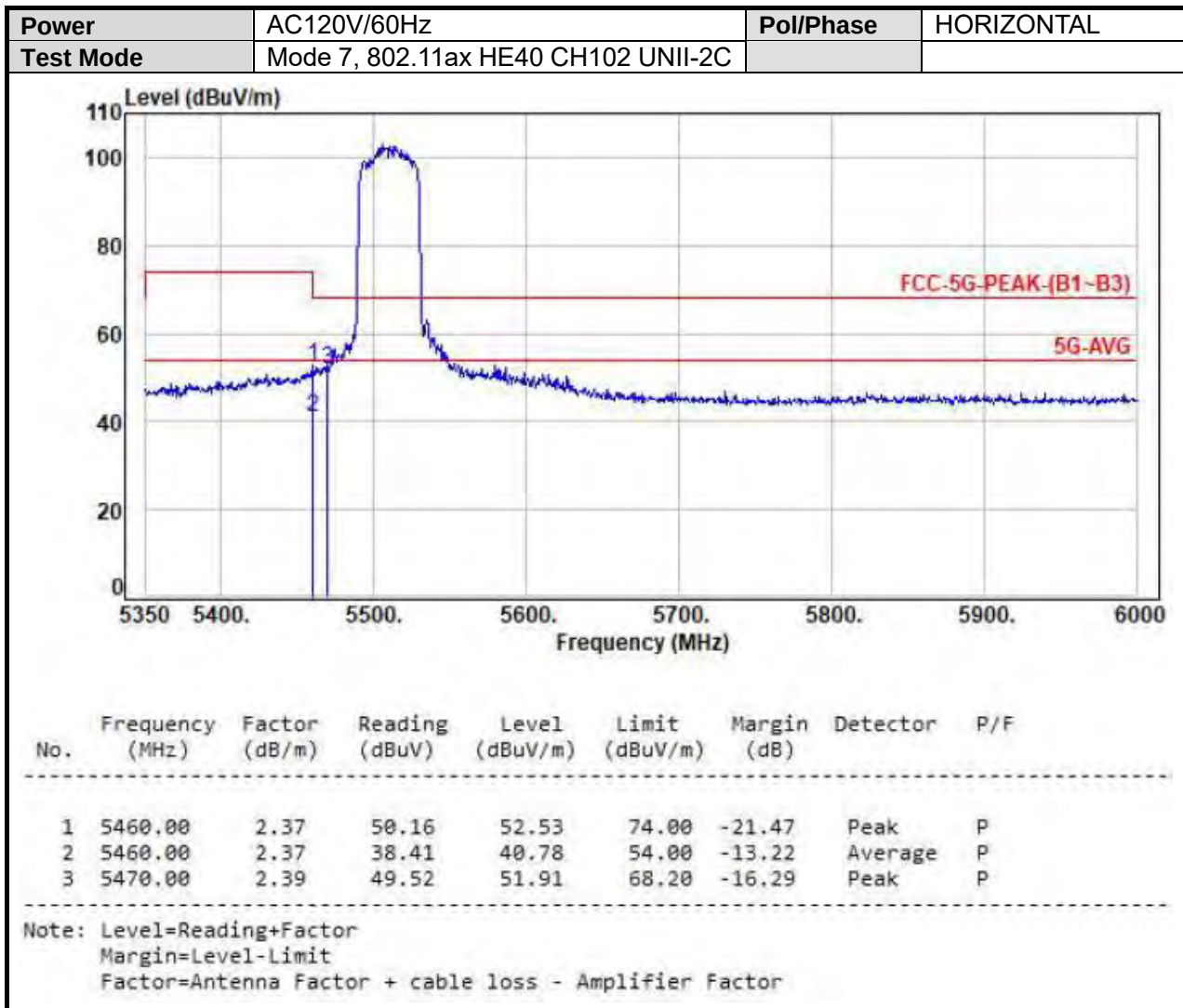


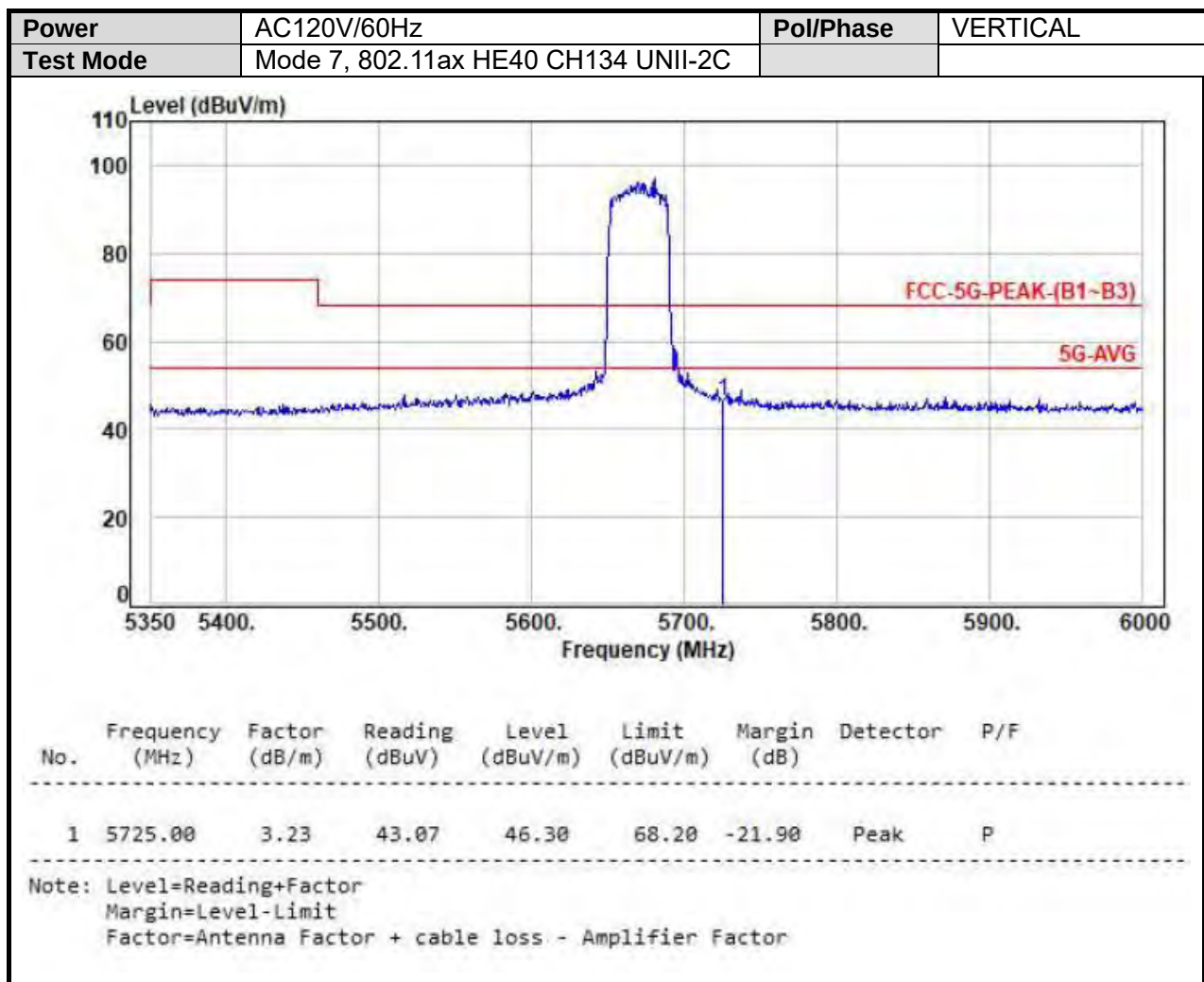


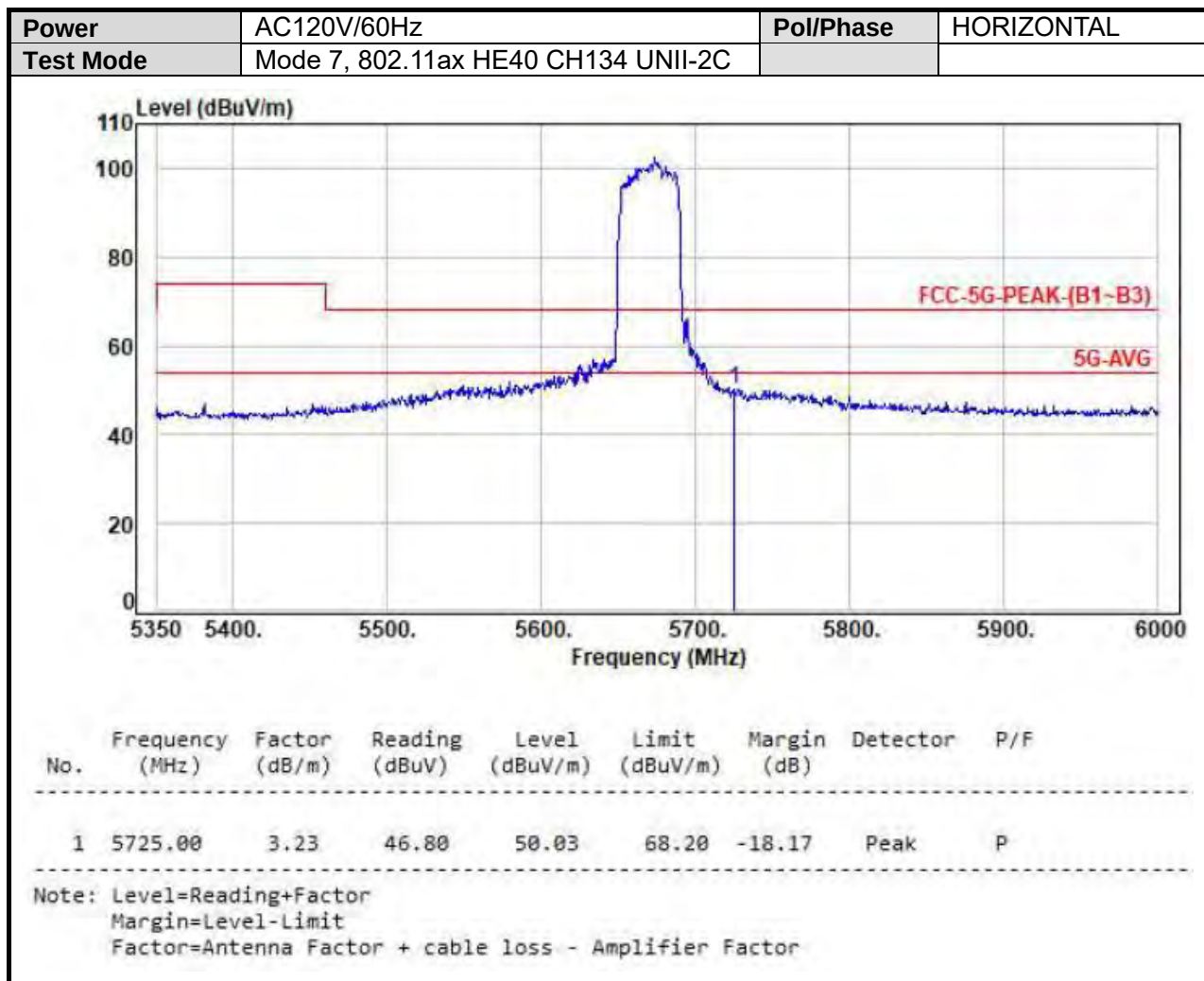


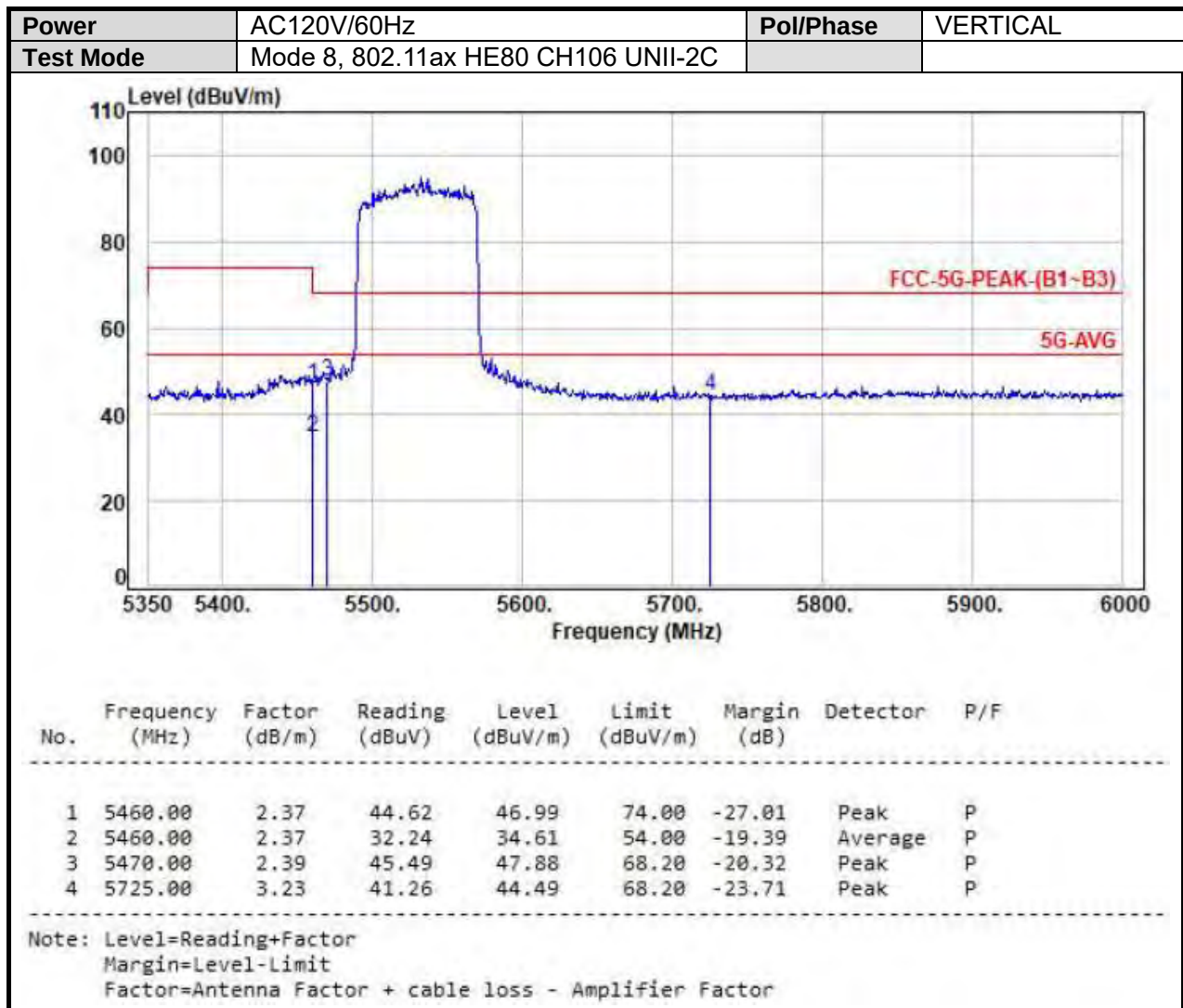


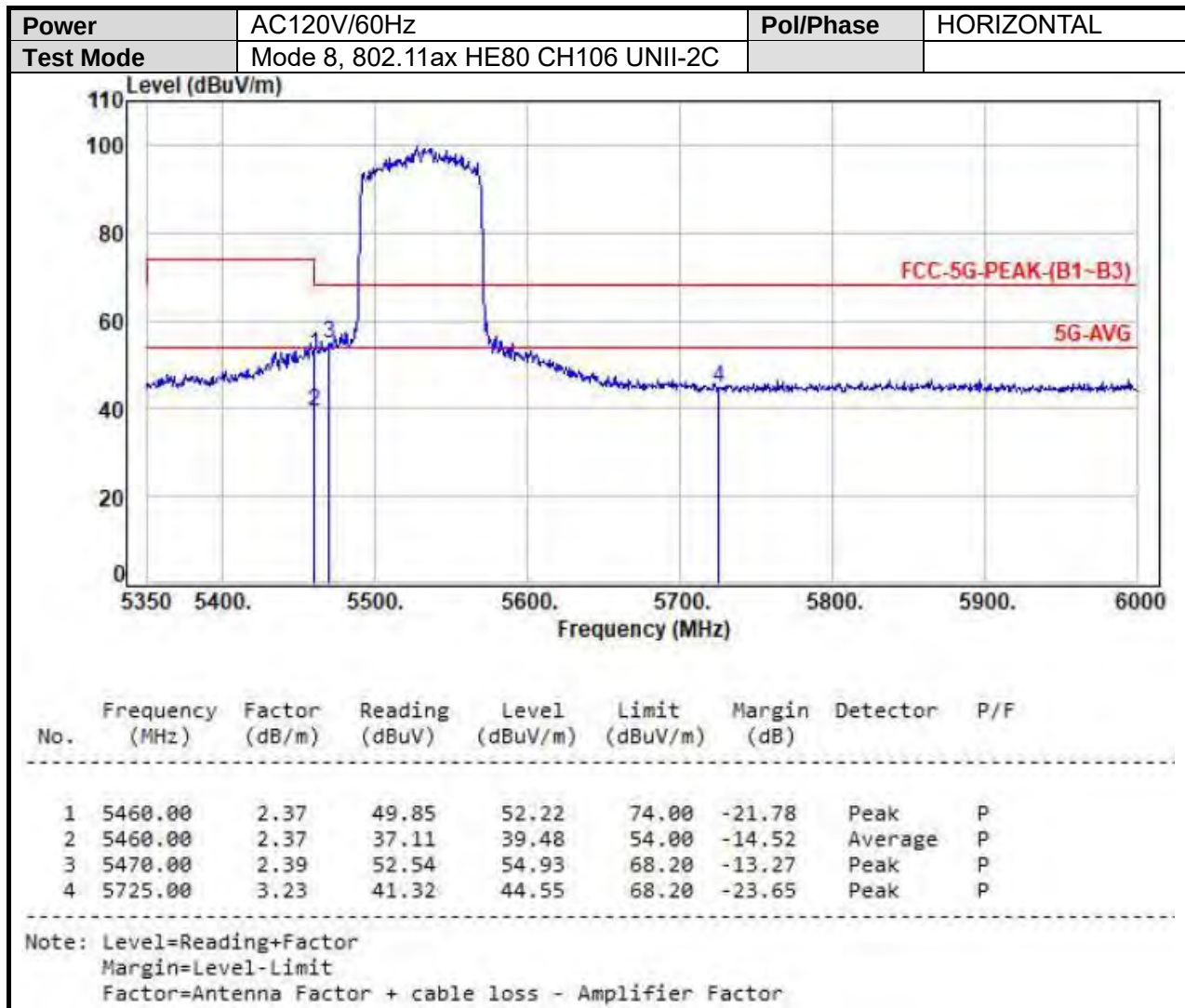


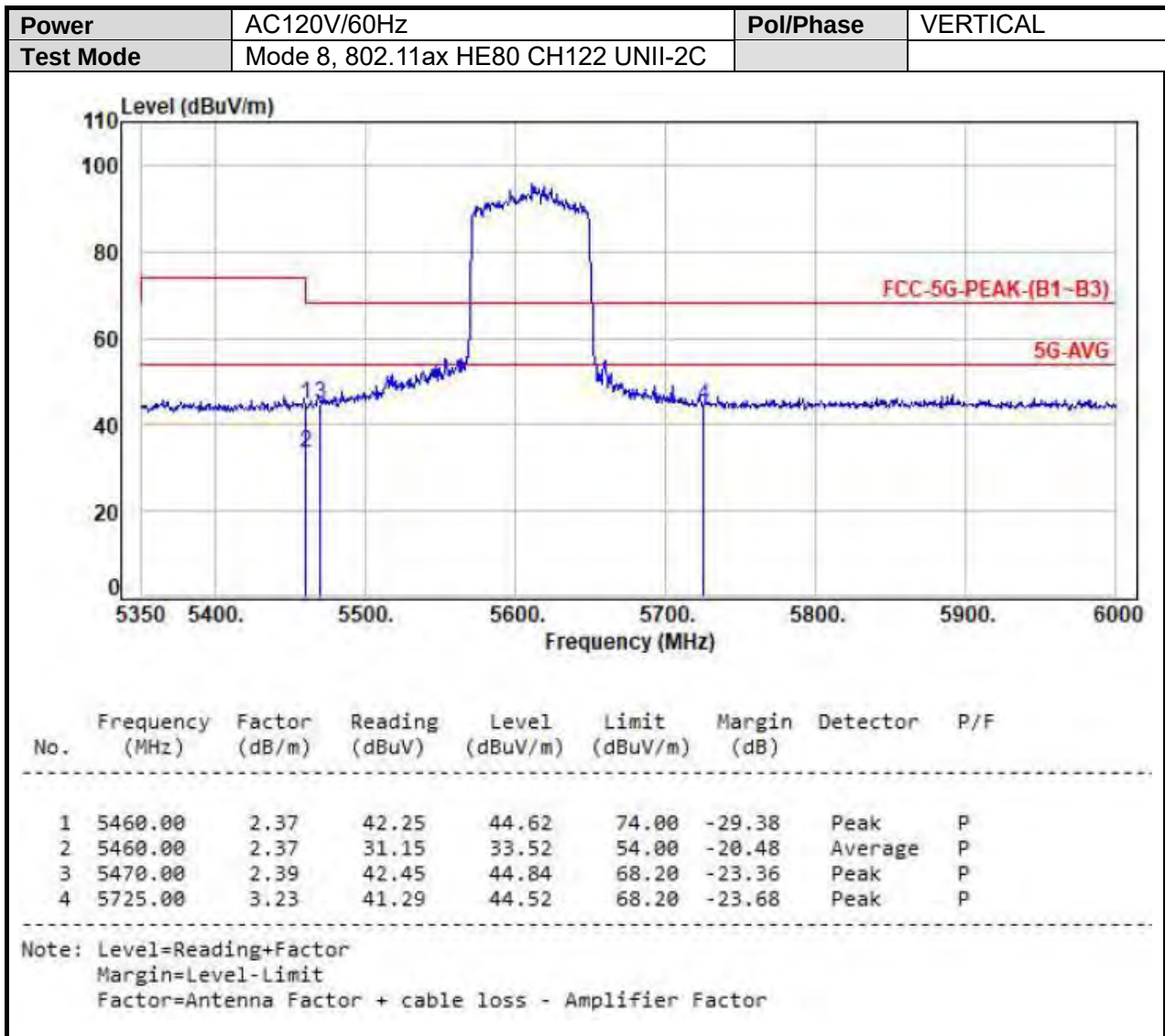


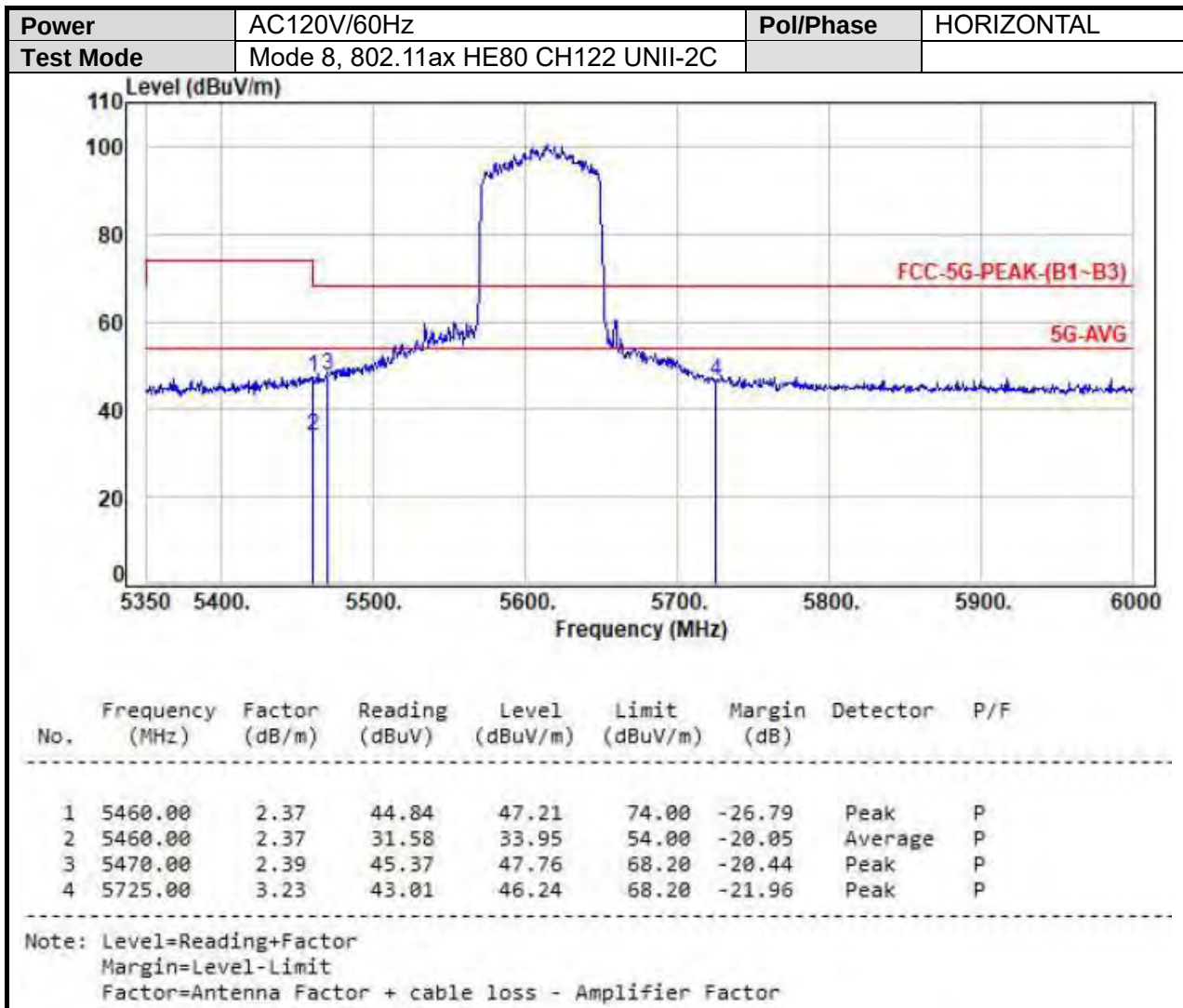








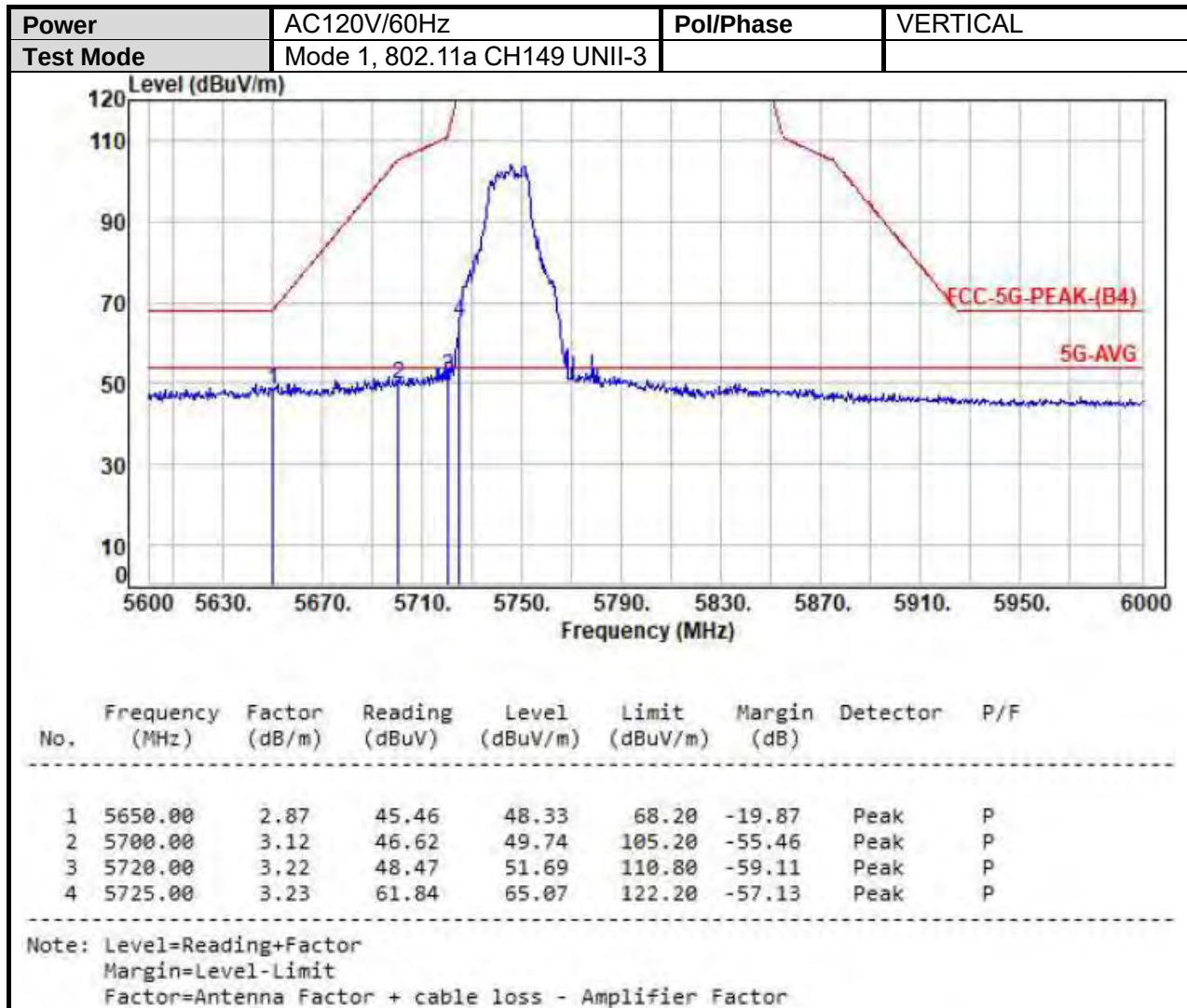


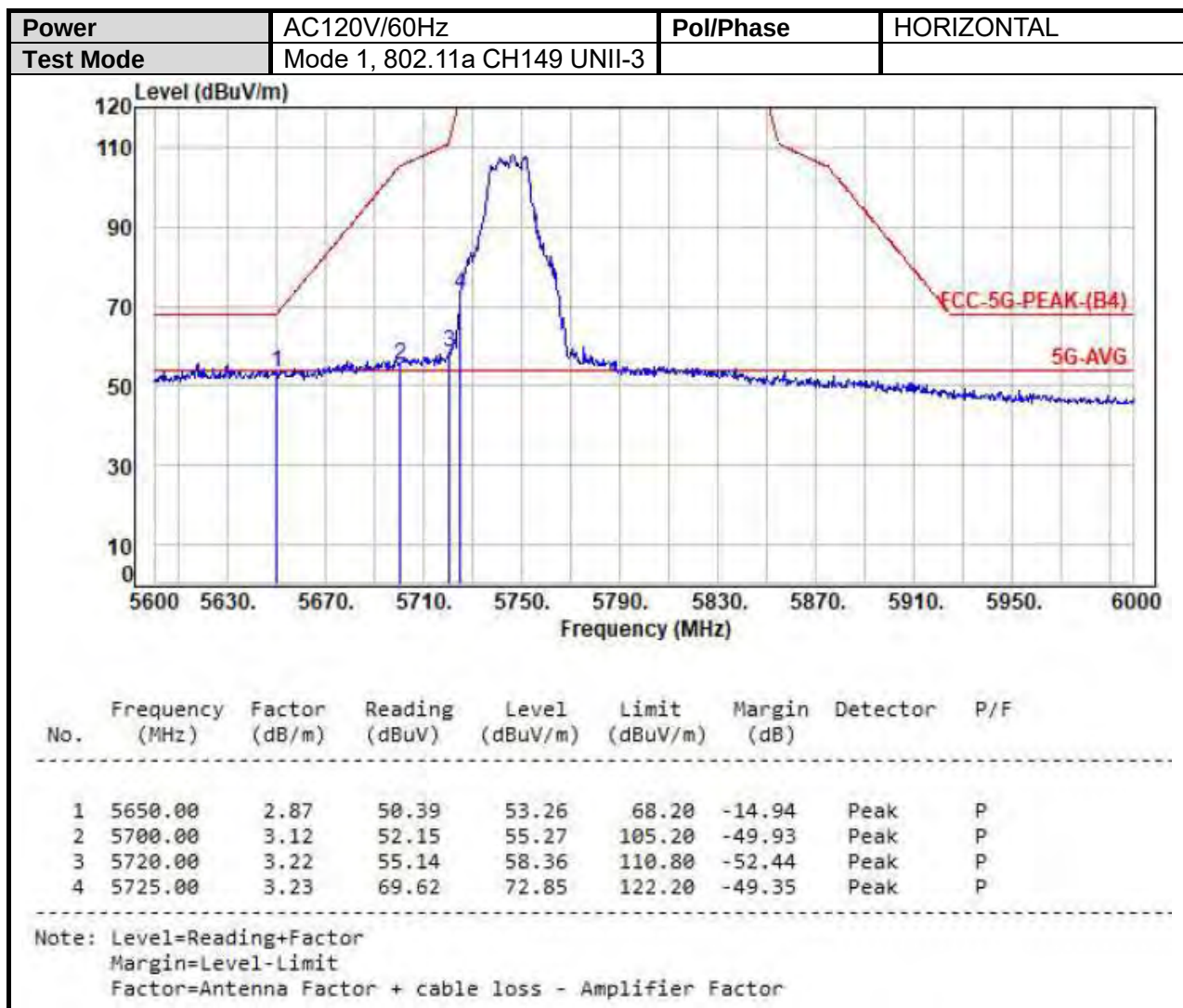


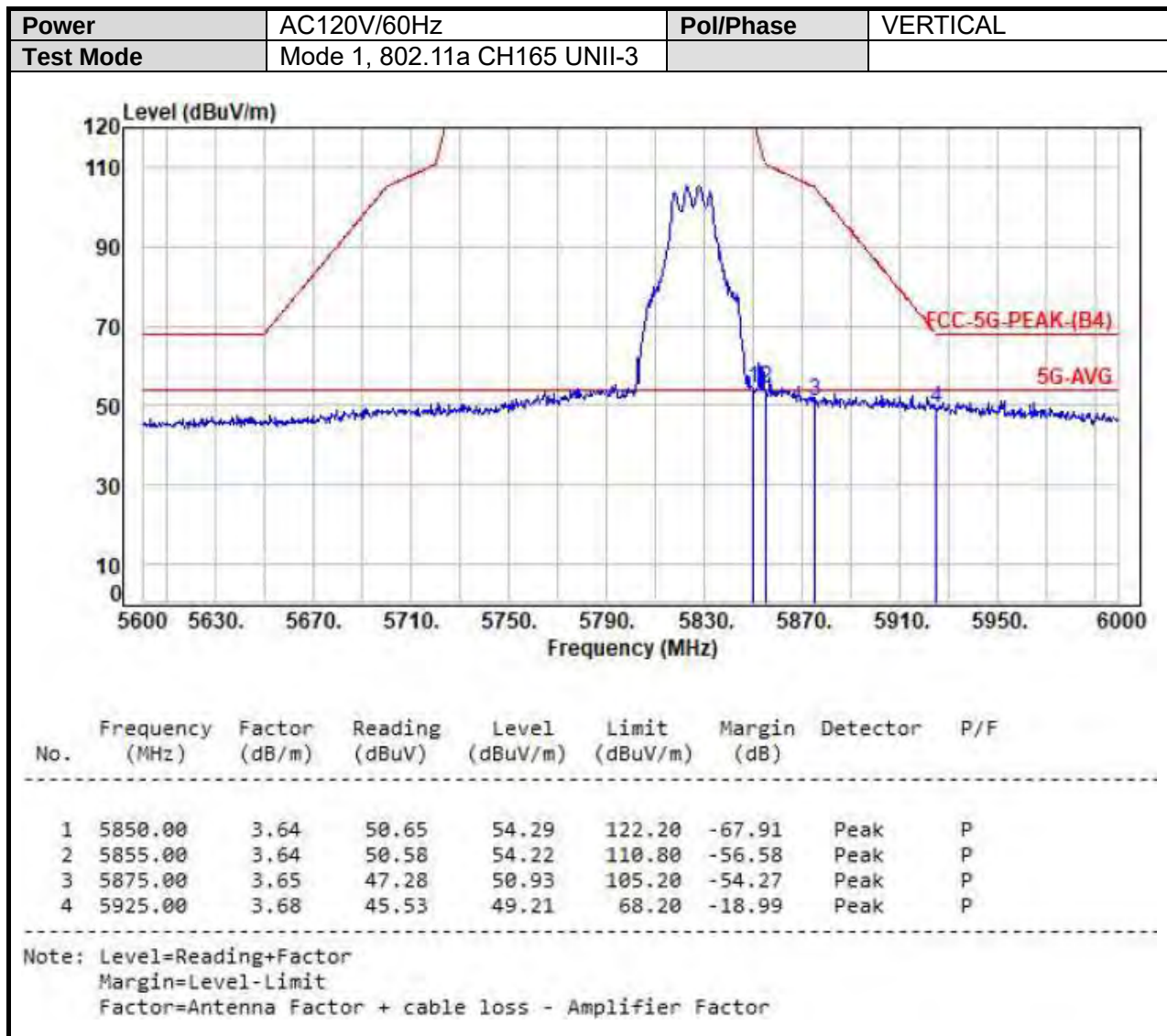


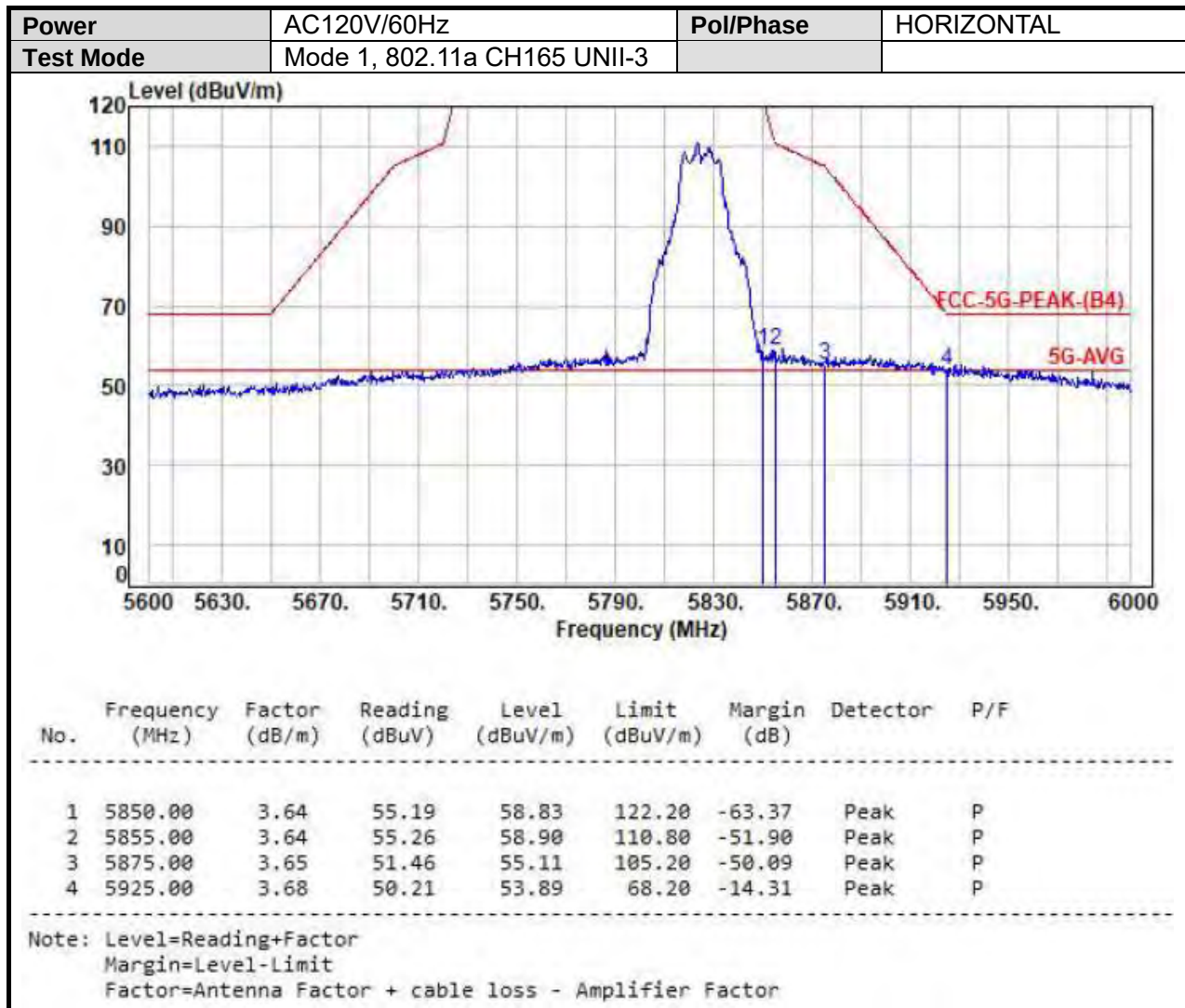
SISO-Ant B

UNII-3



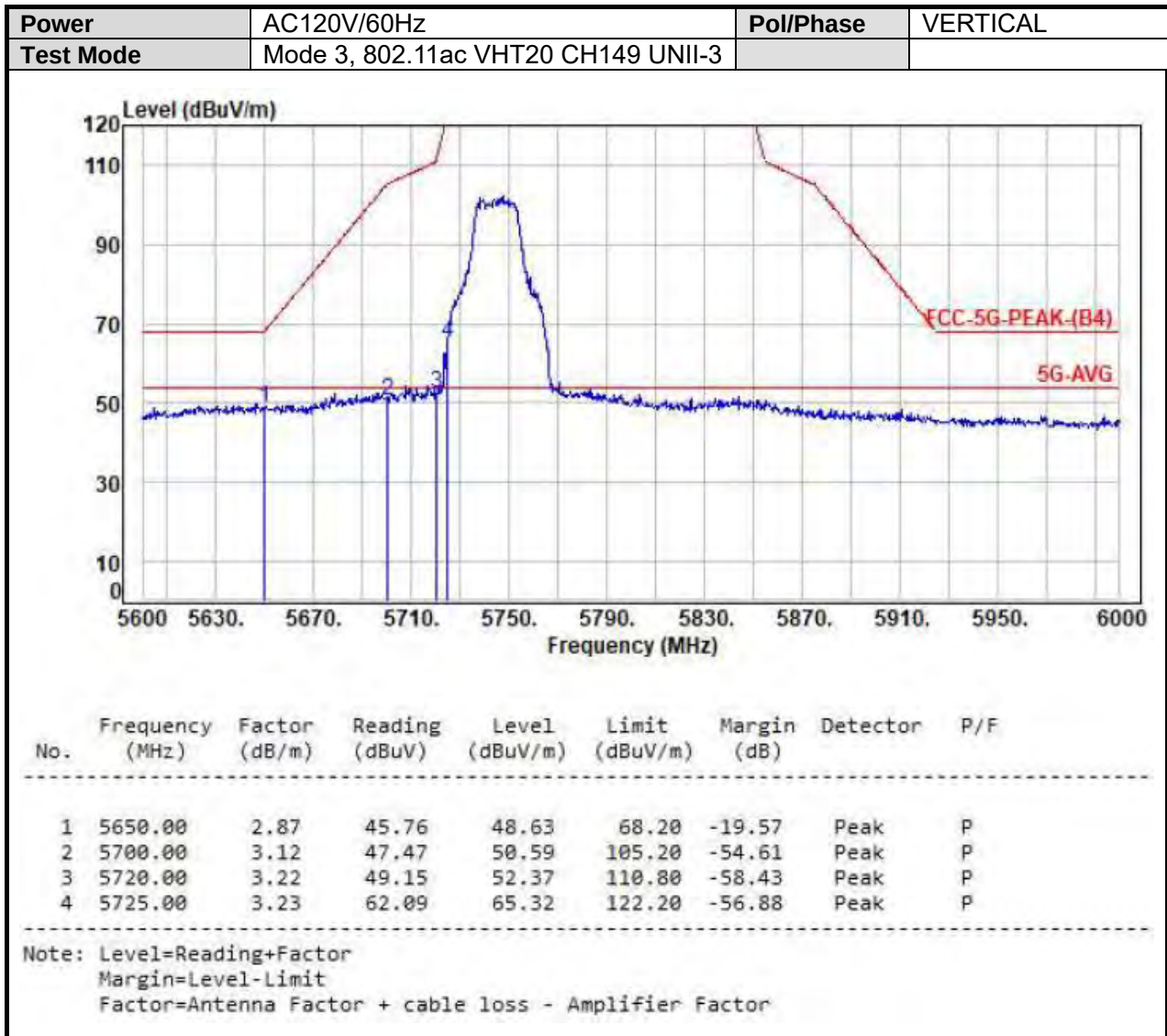


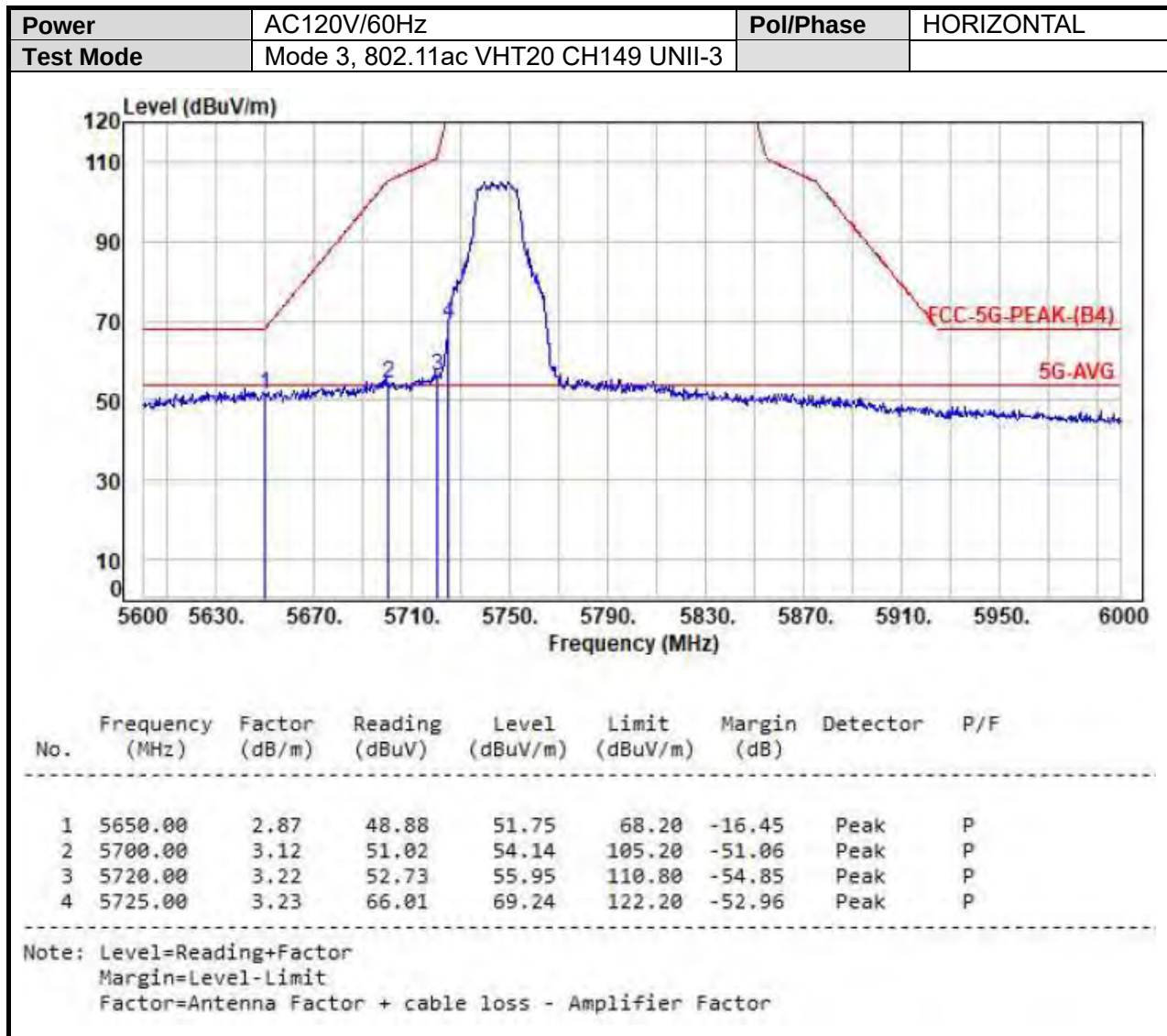


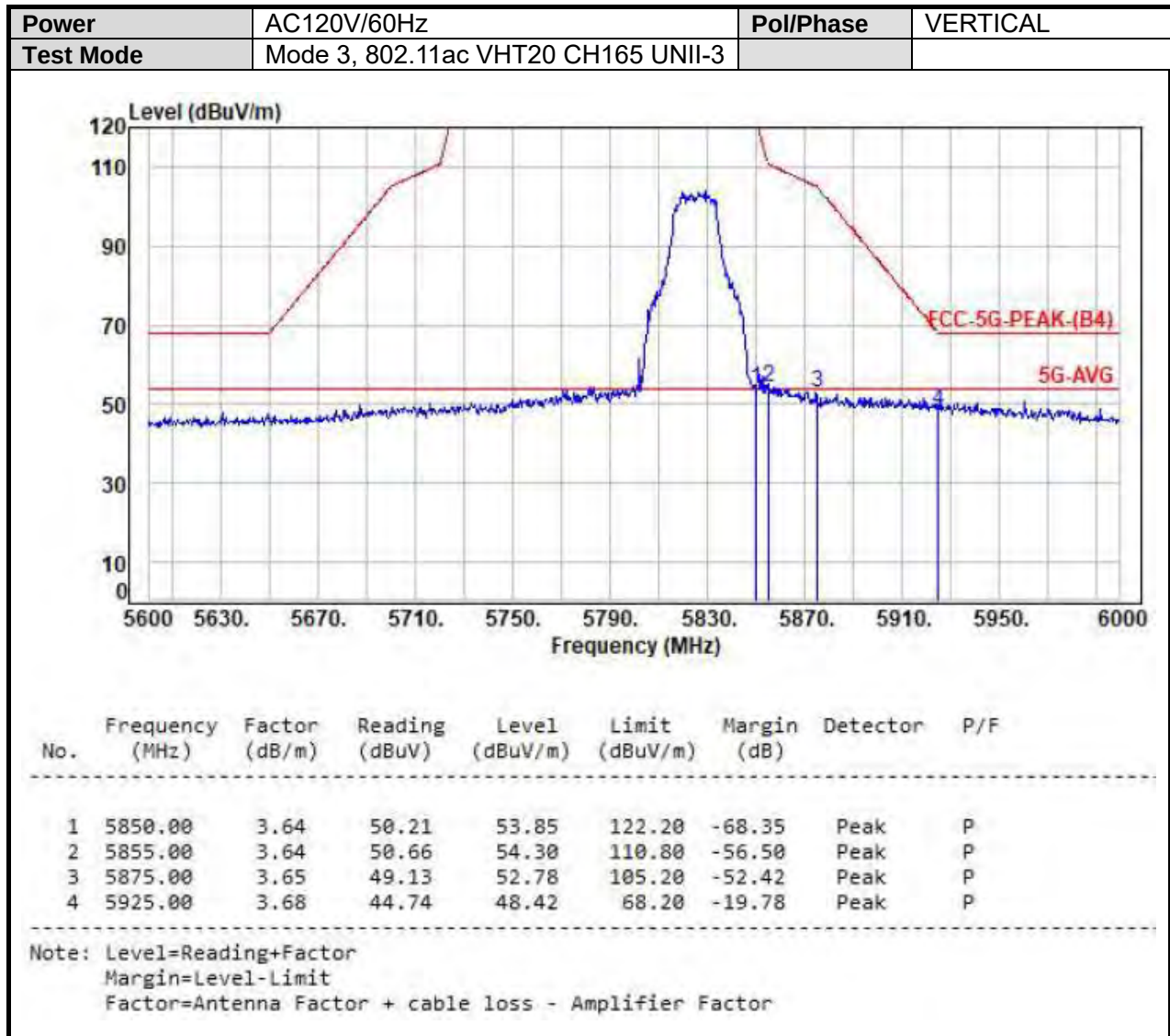


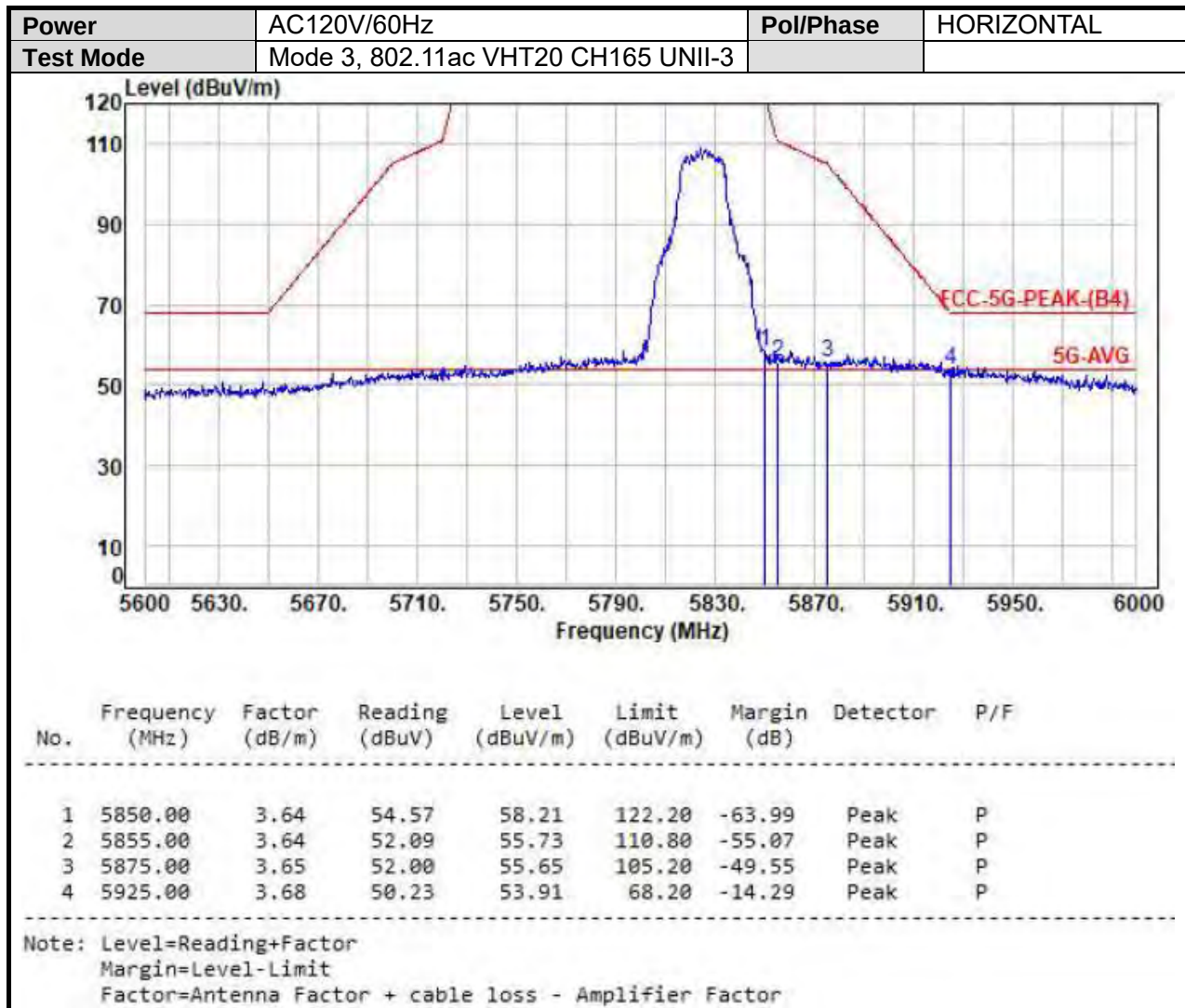


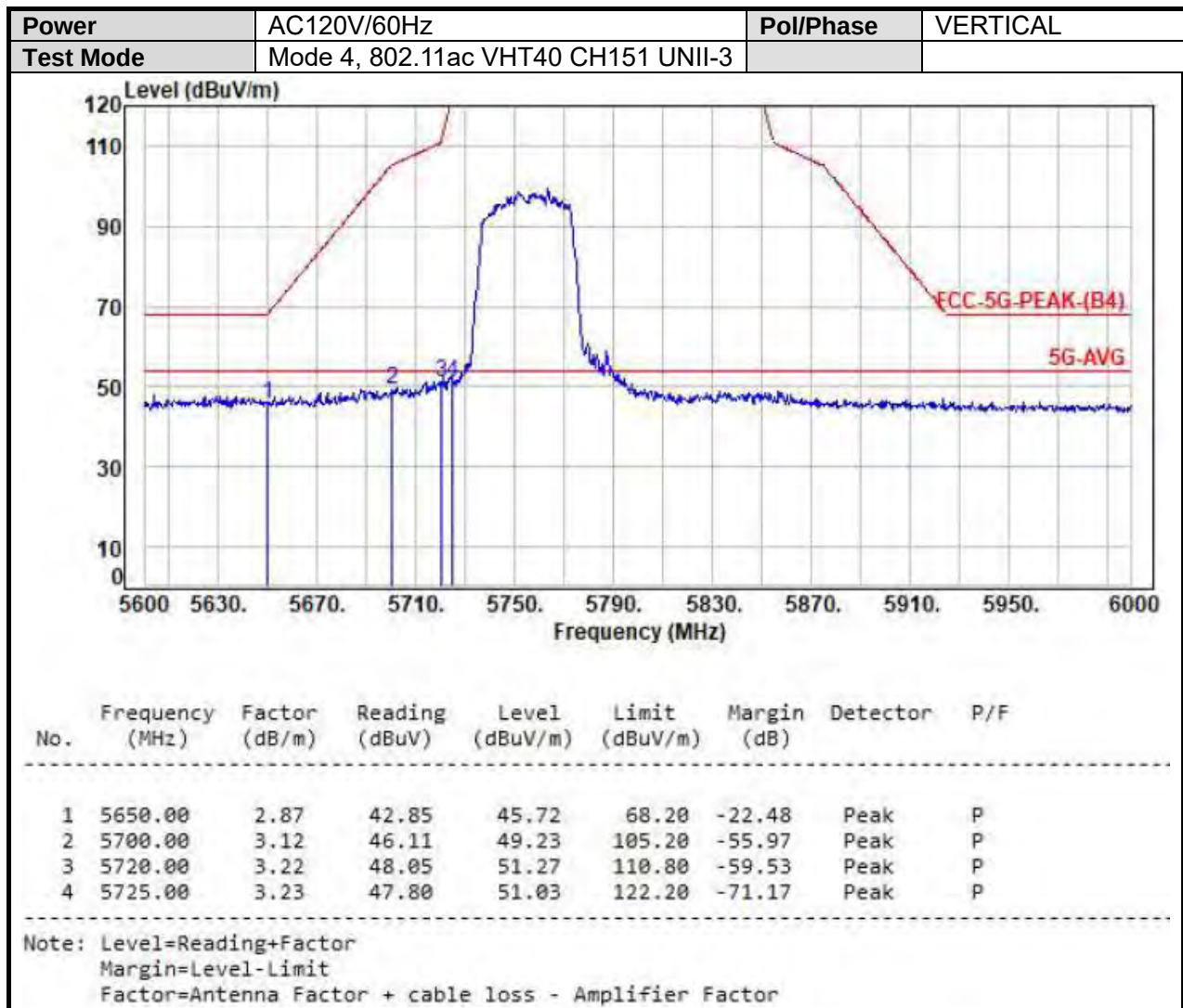
MIMO-UNII-3

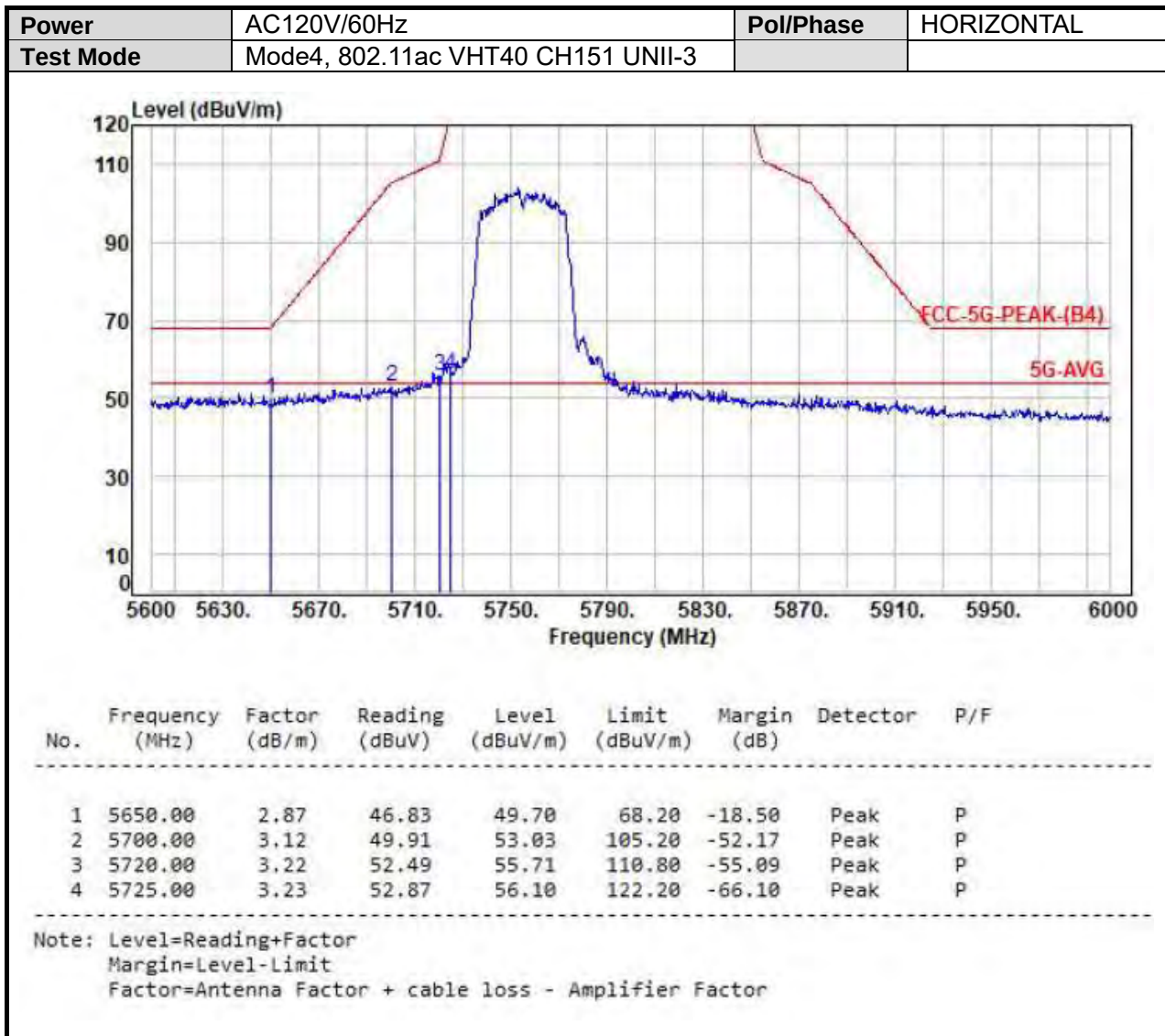


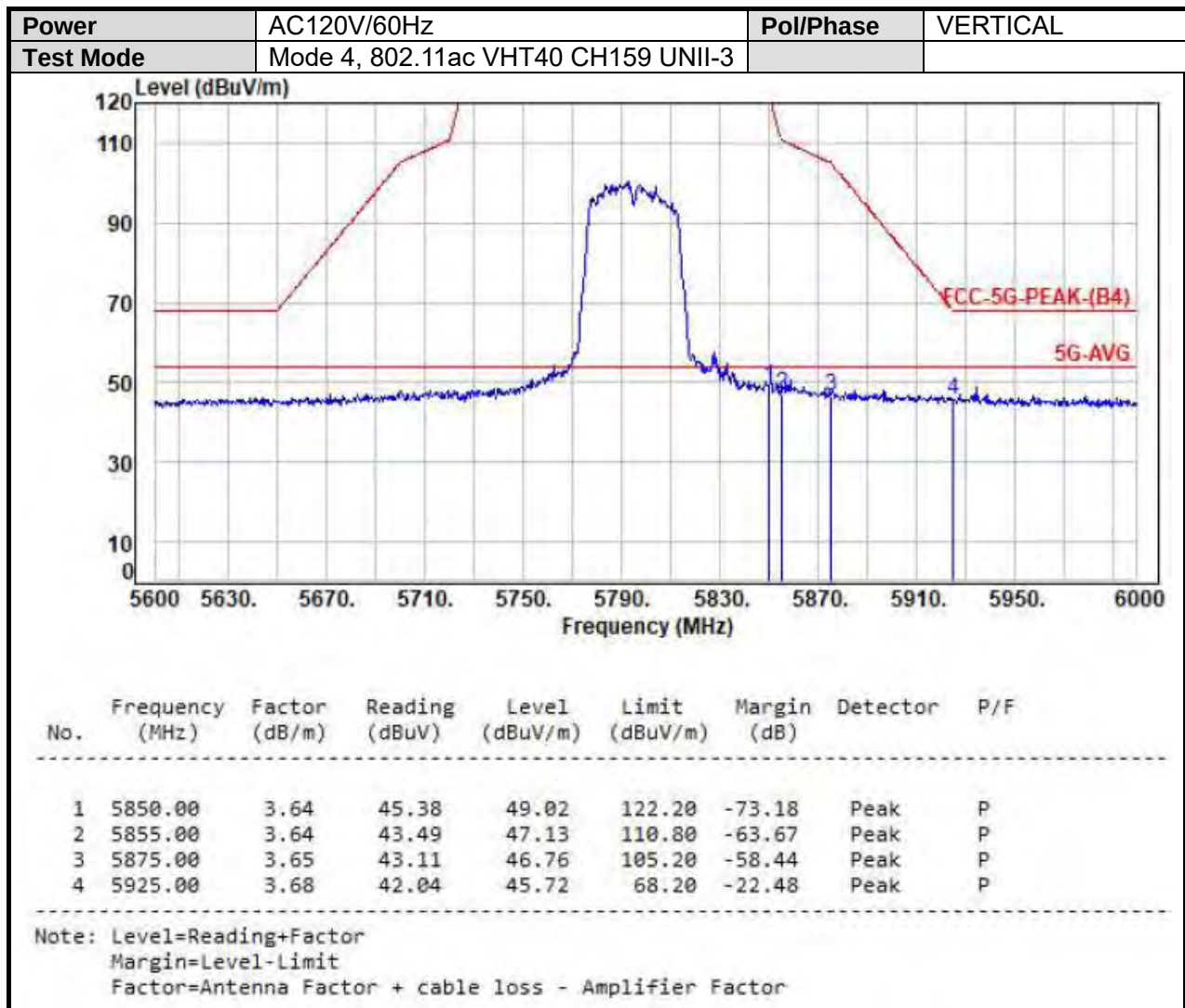


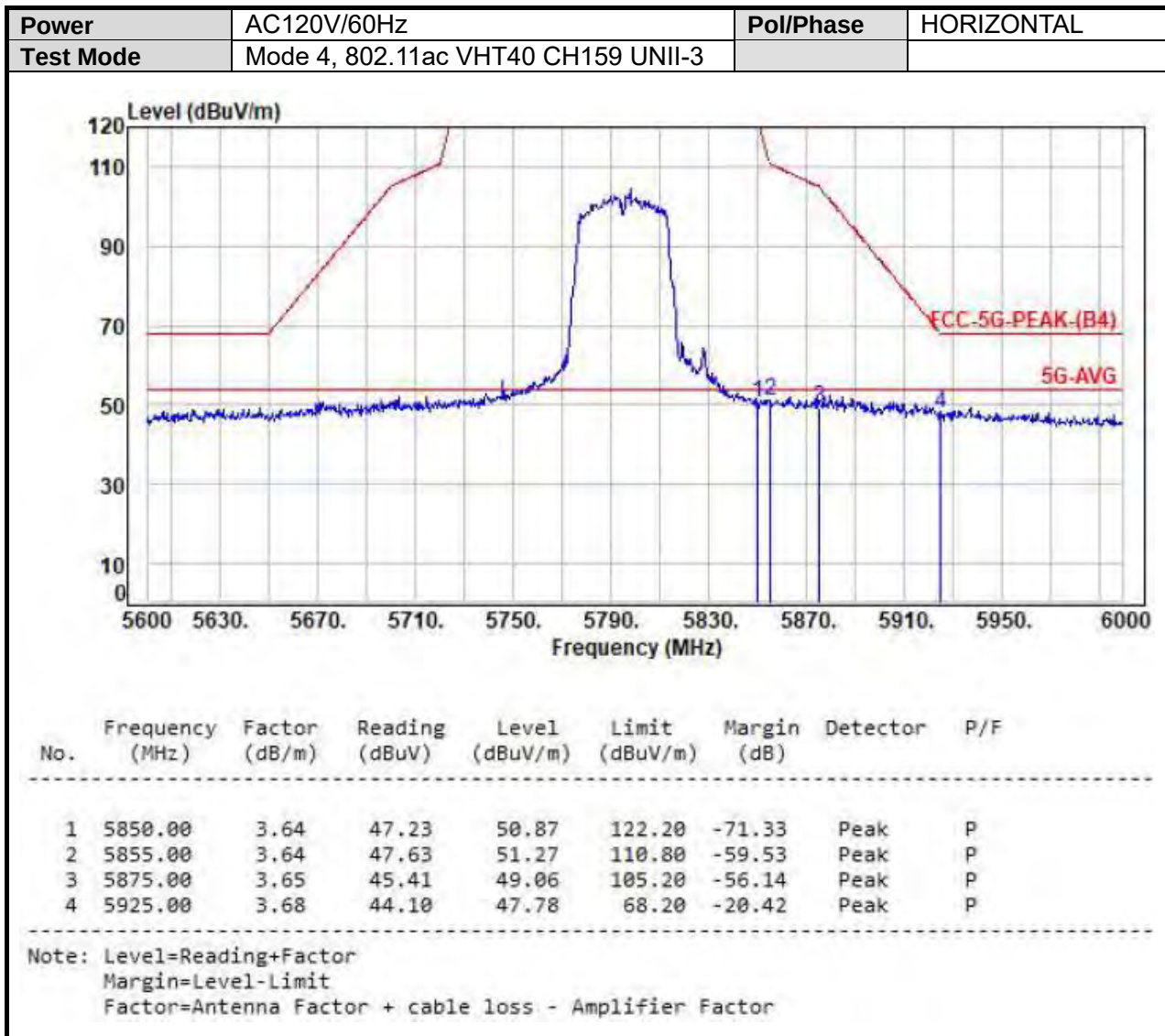


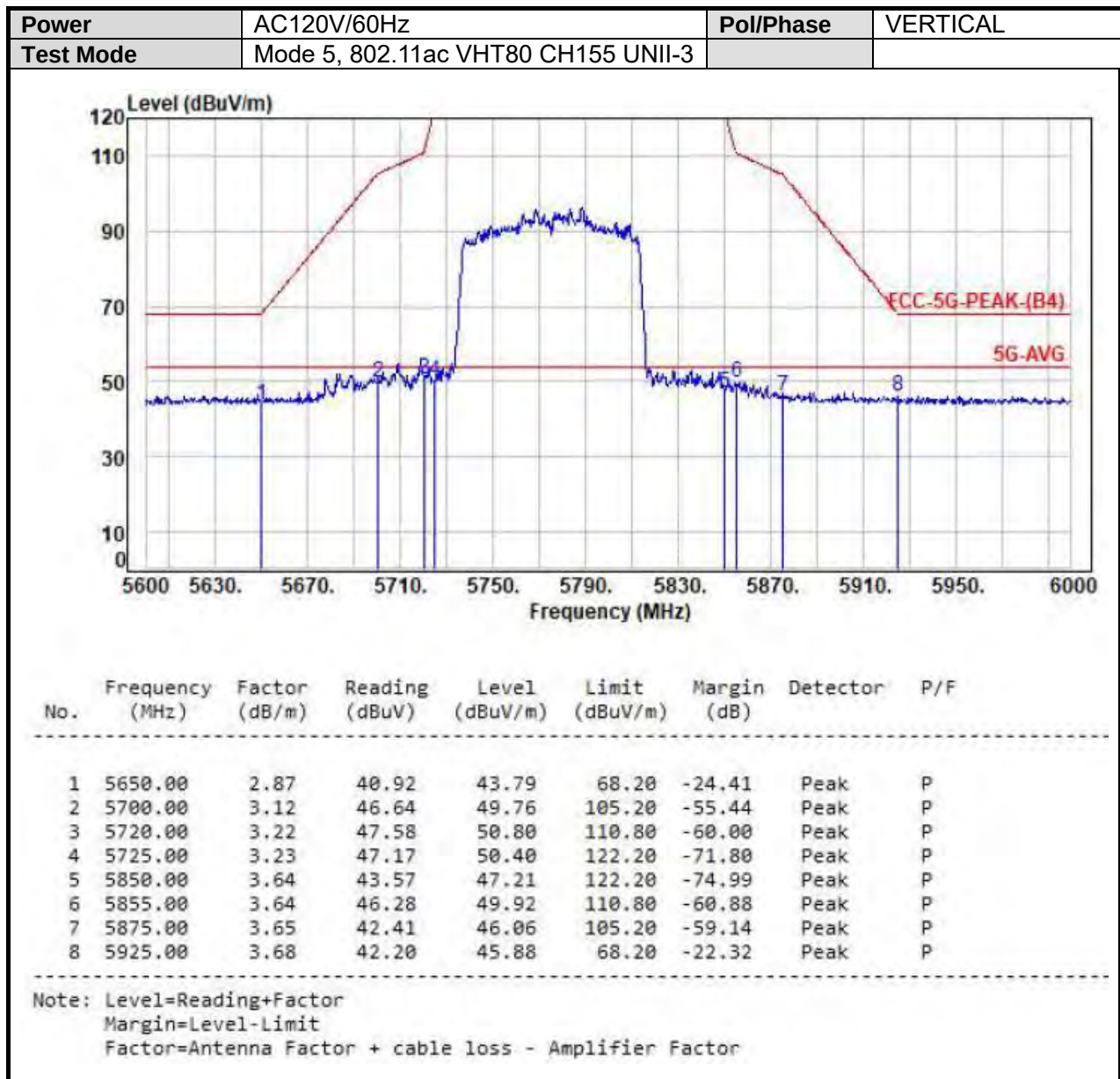


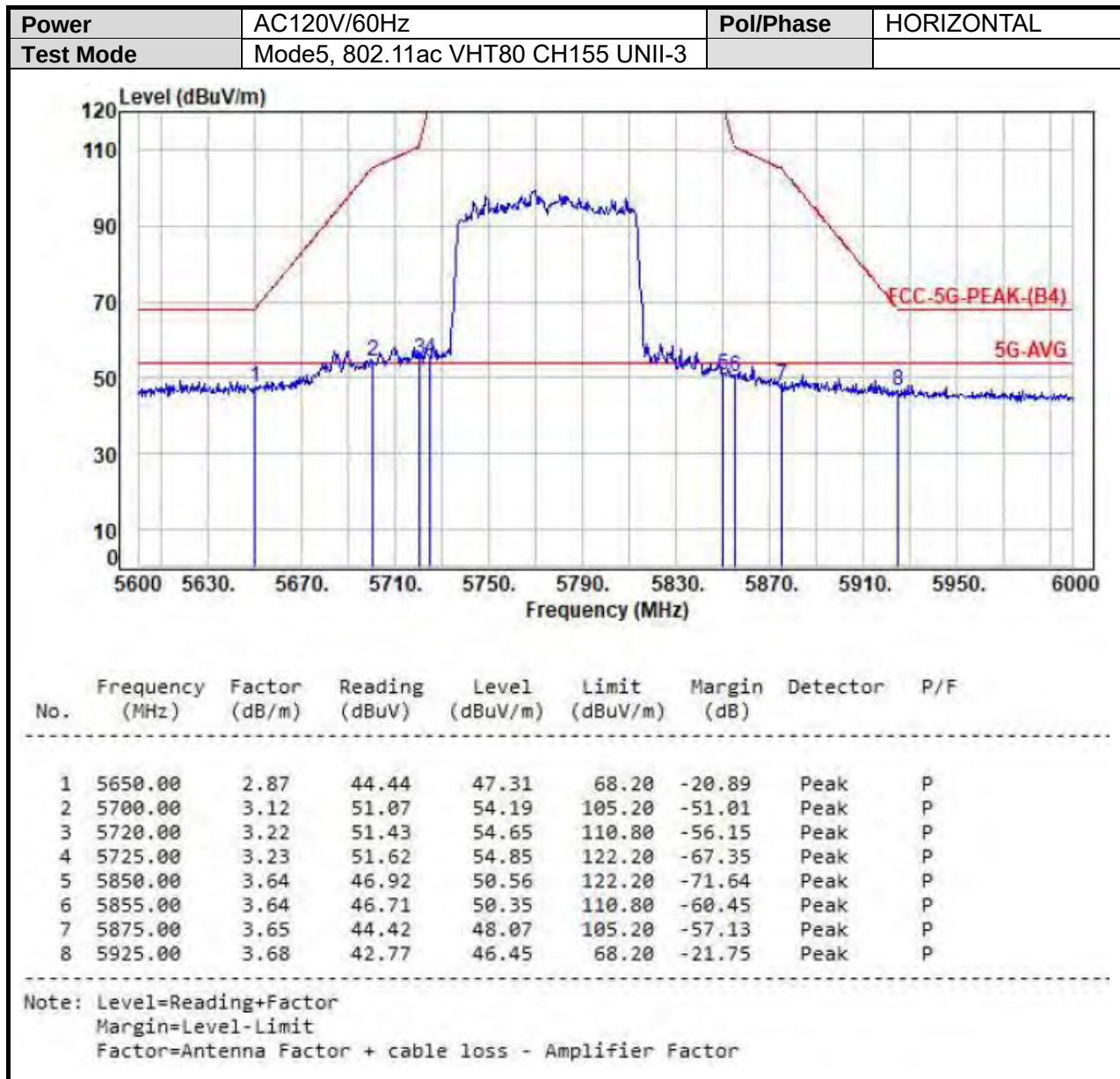


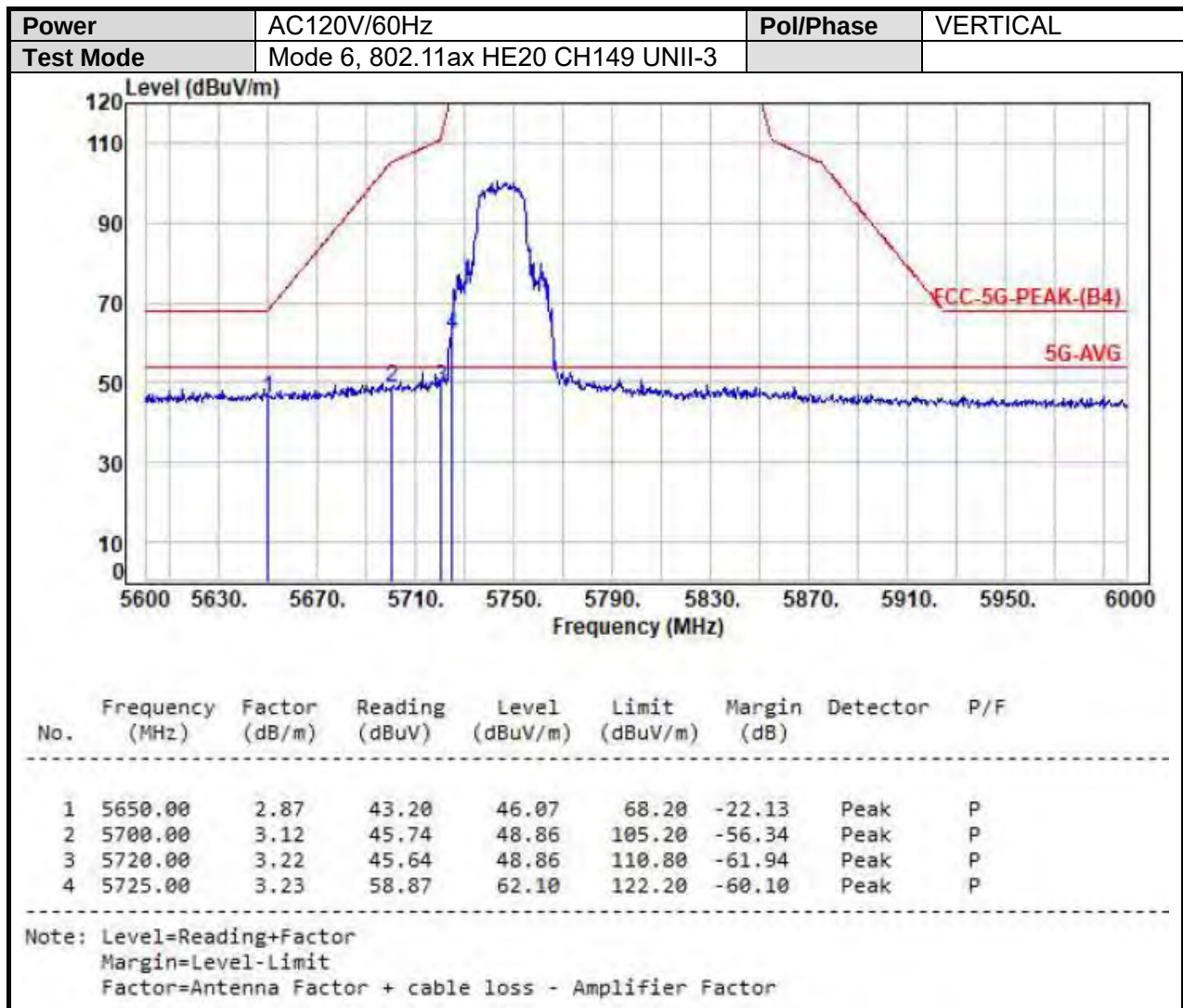


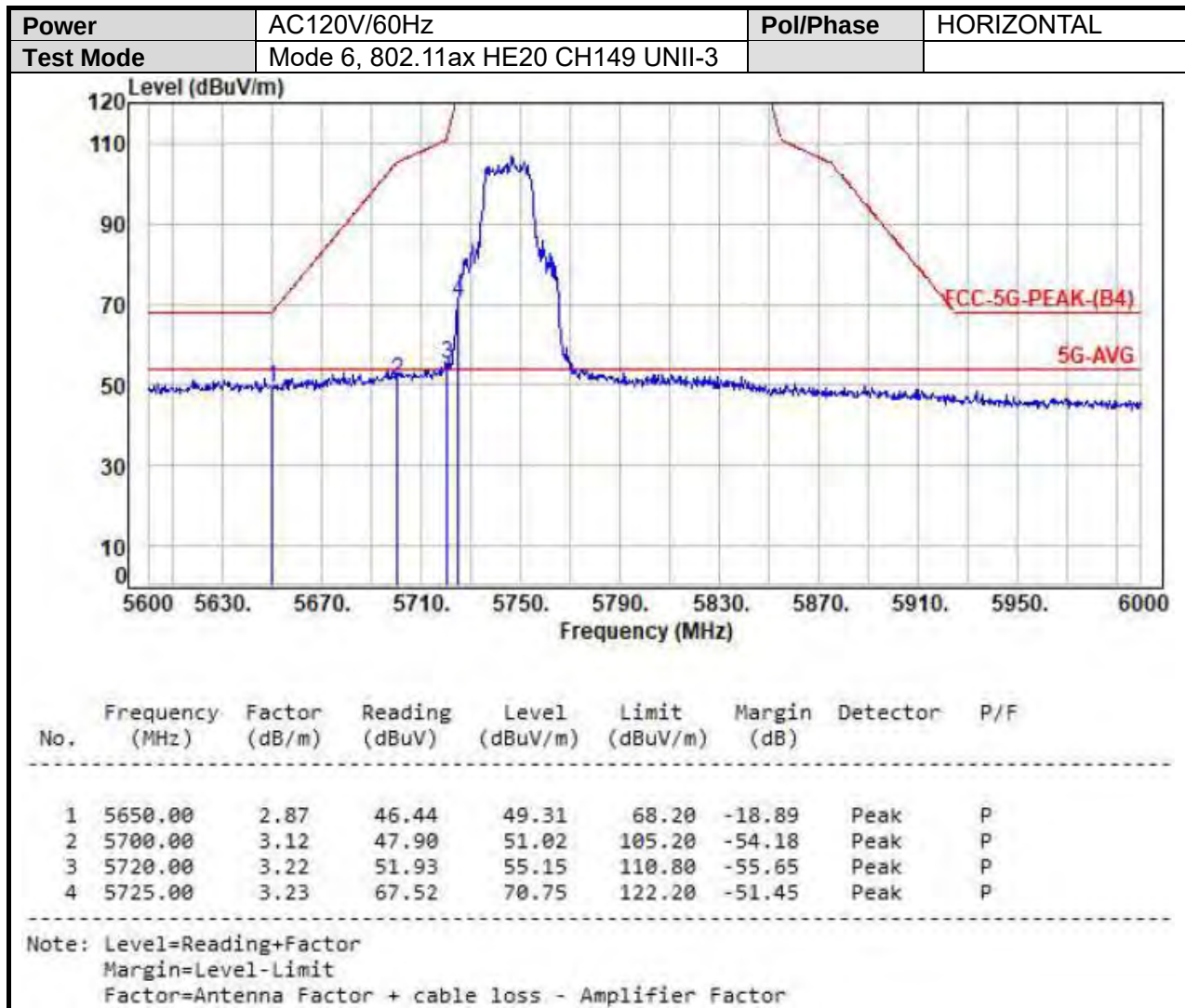


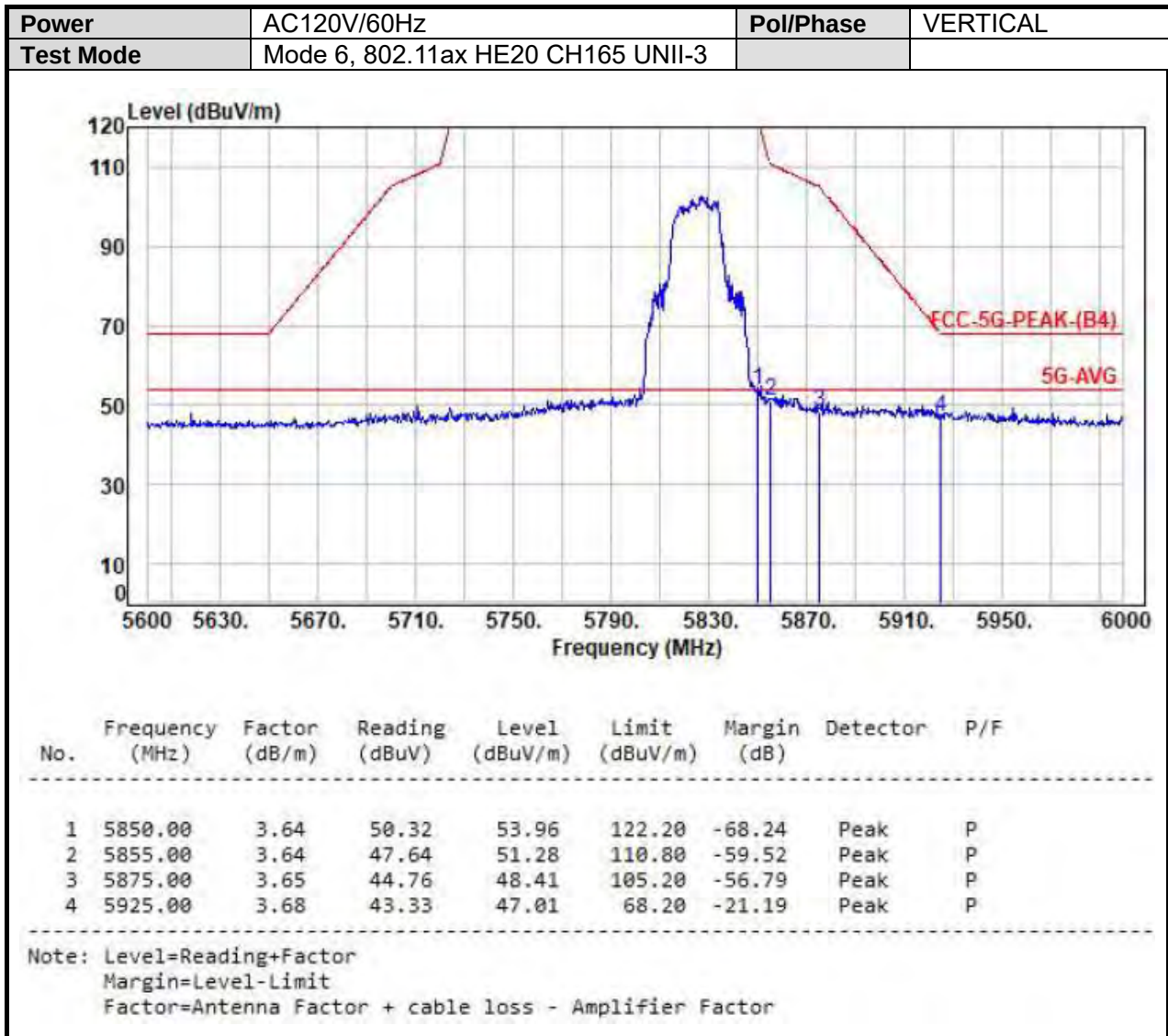


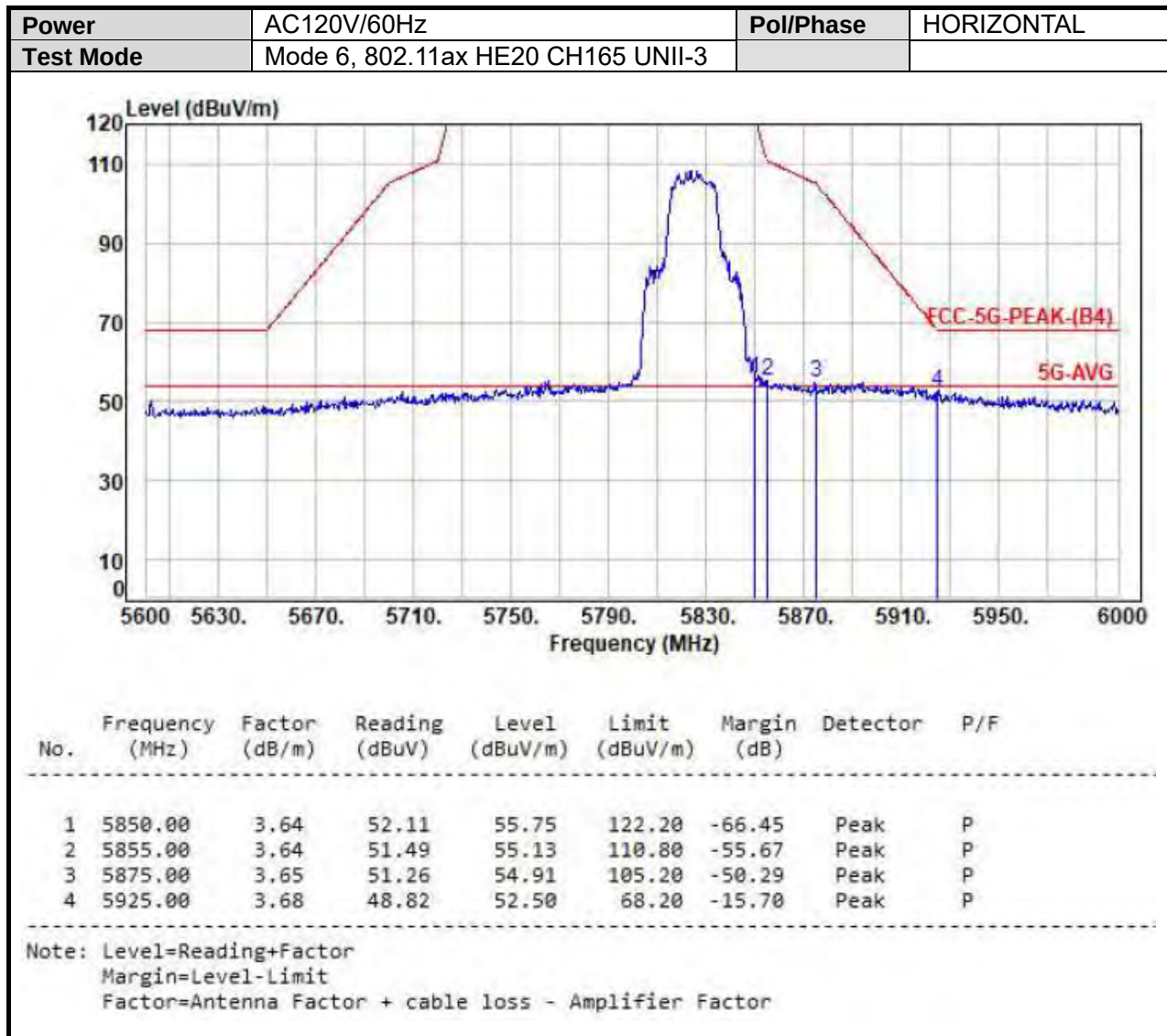


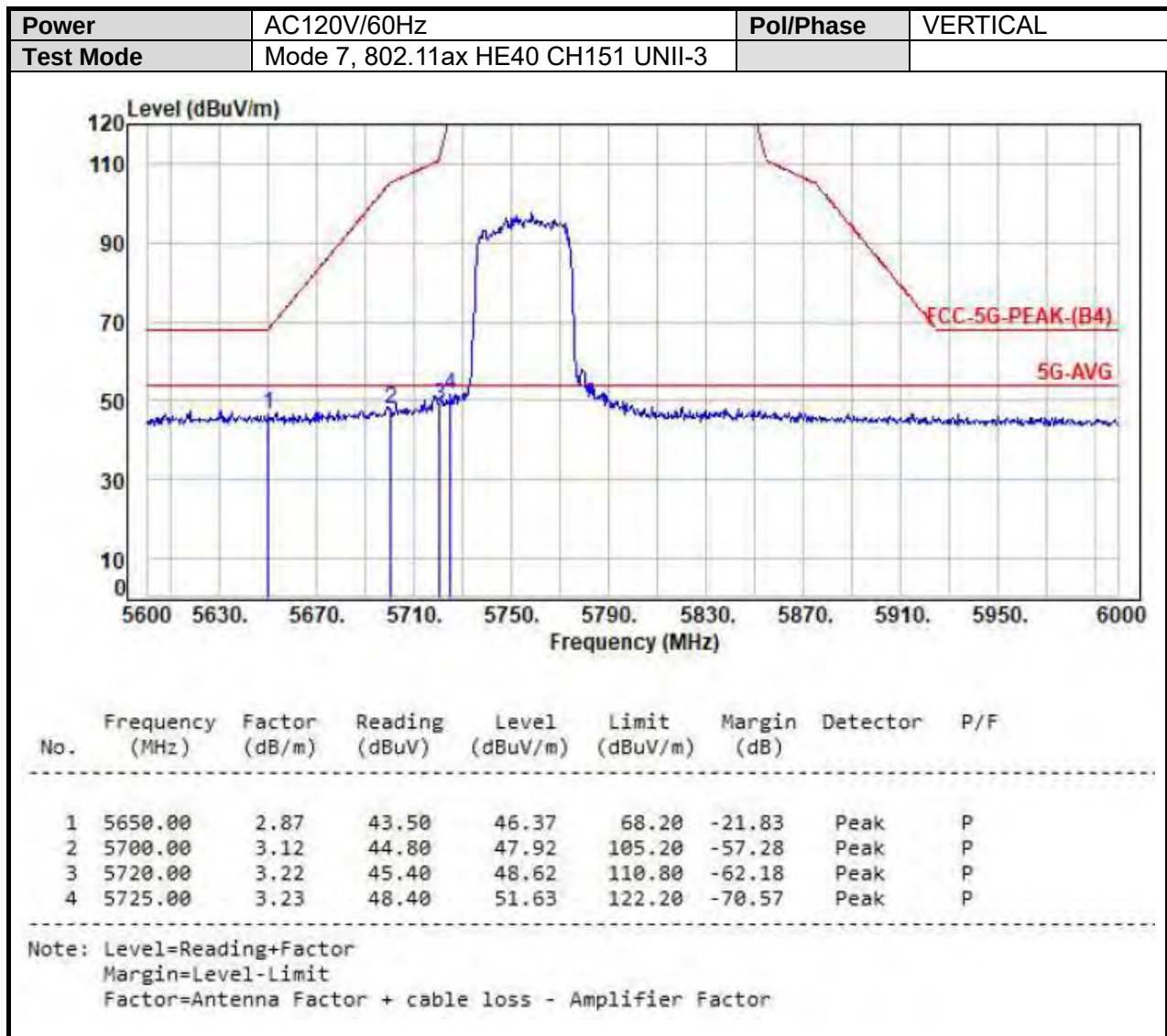


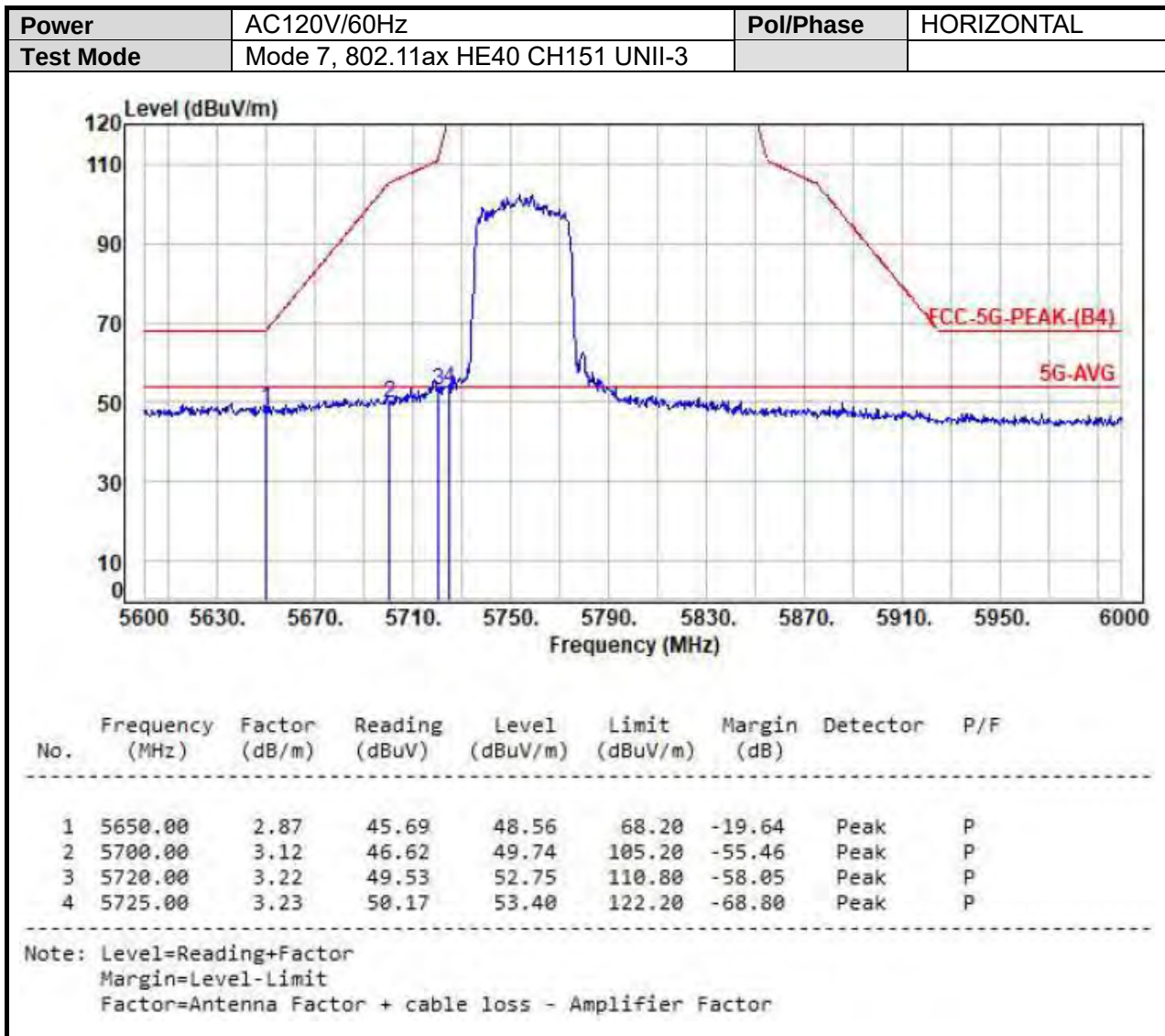


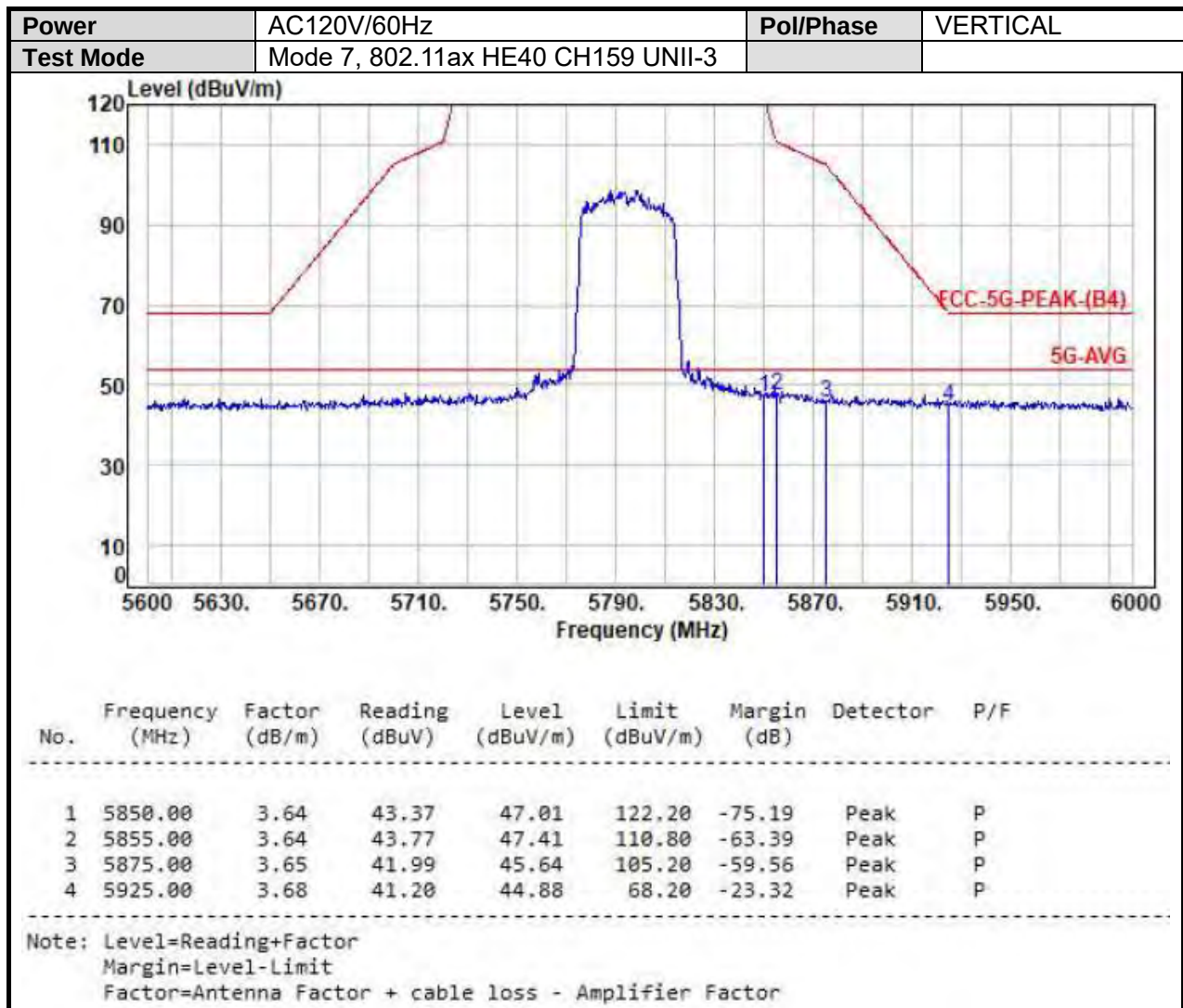


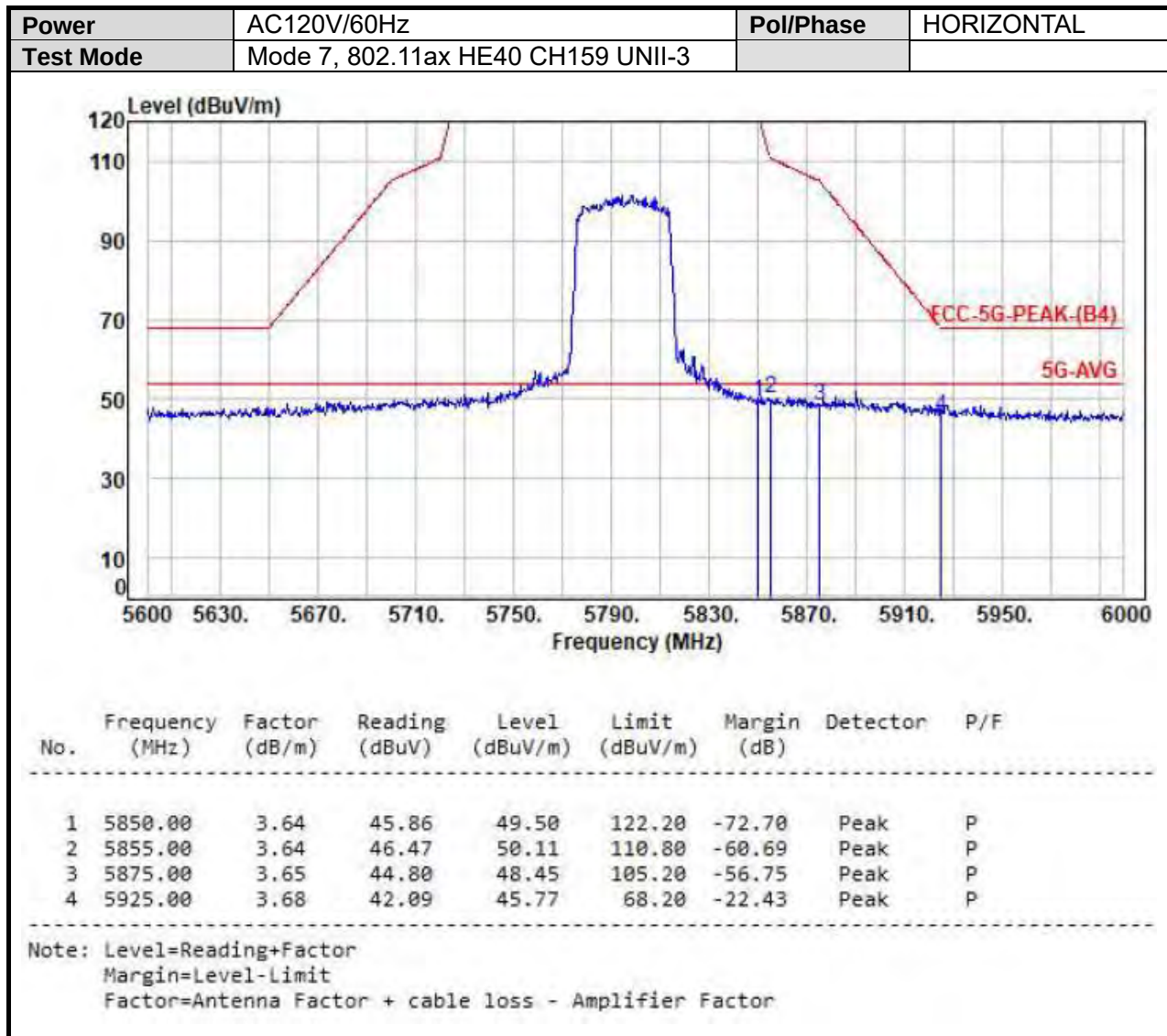


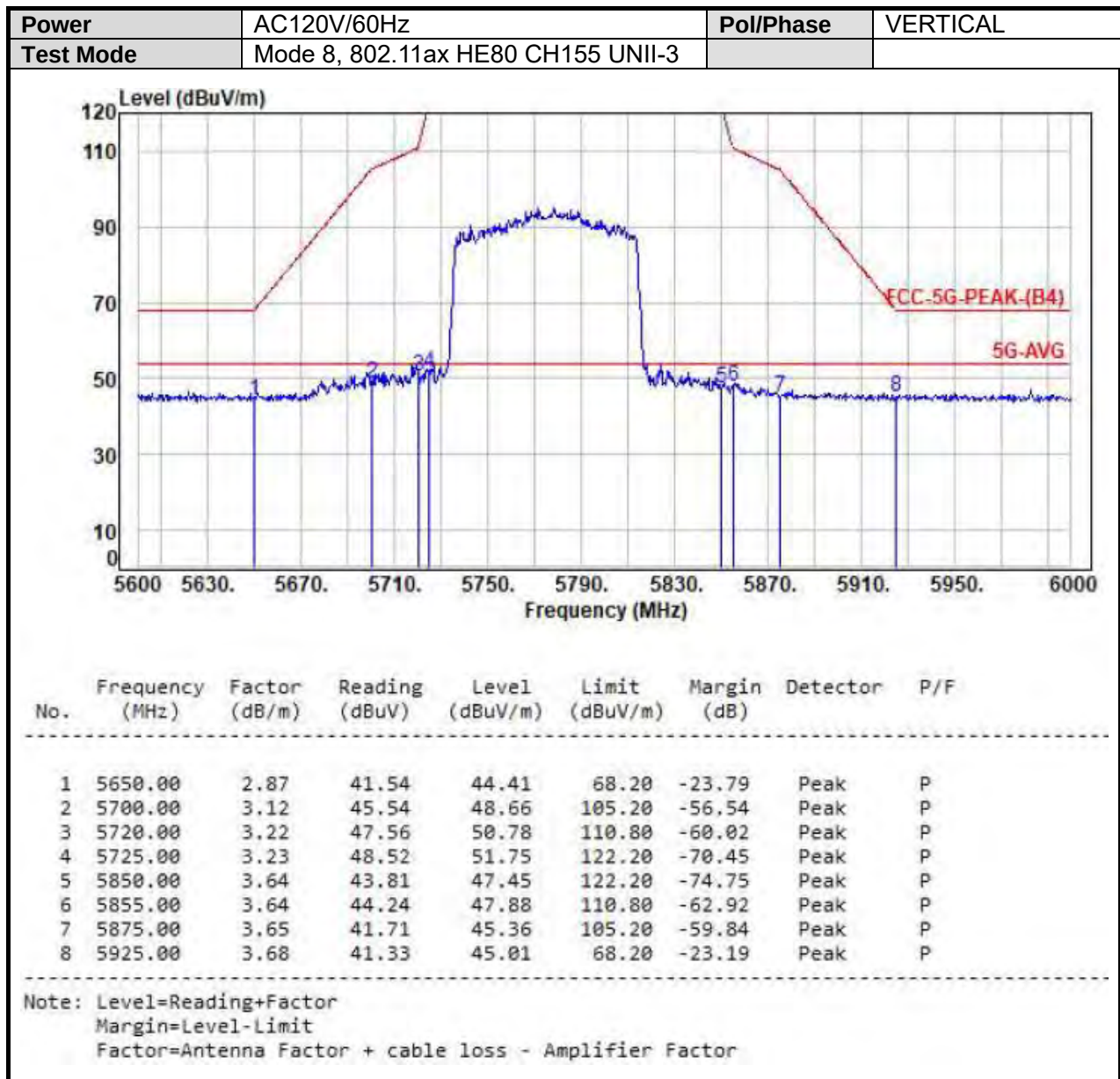


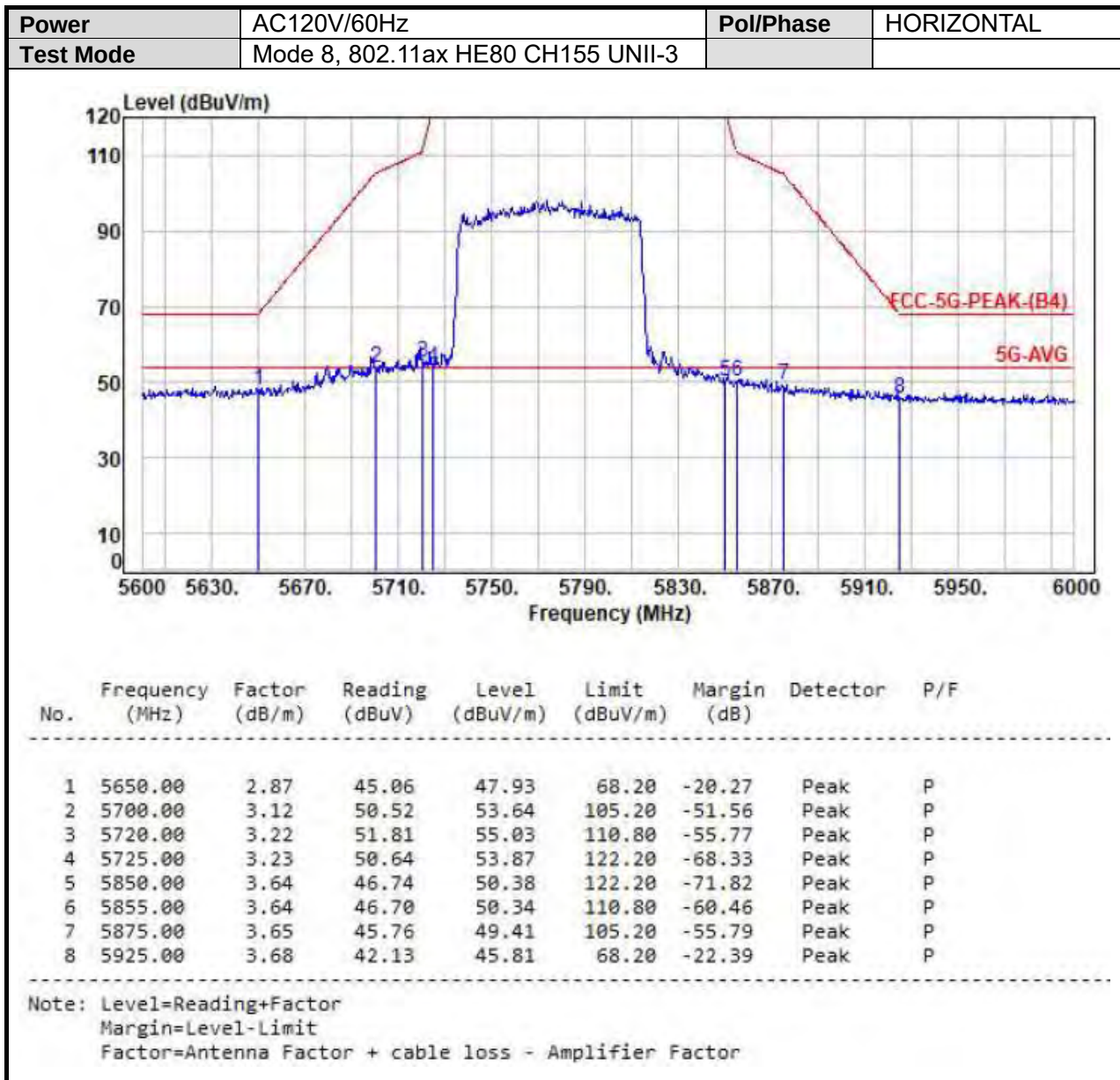














7. On Time, Duty Cycle and Measurement methods

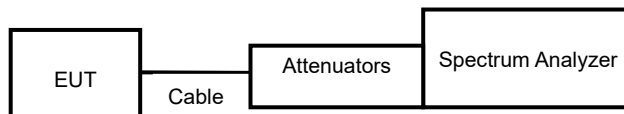
7.1. Test Limit

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	100.000	100.000	100.00%

2TX

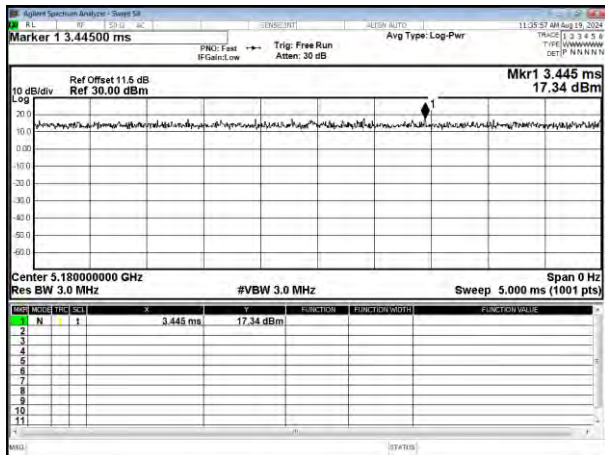
Modulation Mode	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11ac VHT20	100.000	100.000	100.00%
802.11ac VHT40	100.000	100.000	100.00%
802.11ac VHT80	100.000	100.000	100.00%
802.11ax HE20	100.000	100.000	100.00%
802.11ax HE40	100.000	100.000	100.00%
802.11ax HE80	100.000	100.000	100.00%

7.5. Measurement Methods

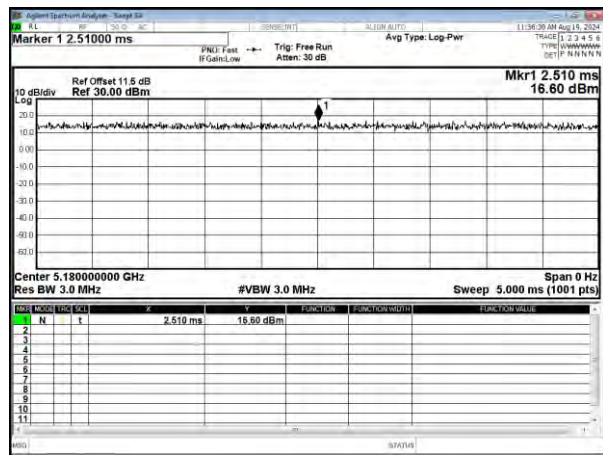
26 dB and 6dB Emission BW	KDB 789033 v02r01, Section C
99% Occupied BW	KDB 789033 v02r01, Section D
Conducted Output Power	KDB 789033 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 v02r01, Sections G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



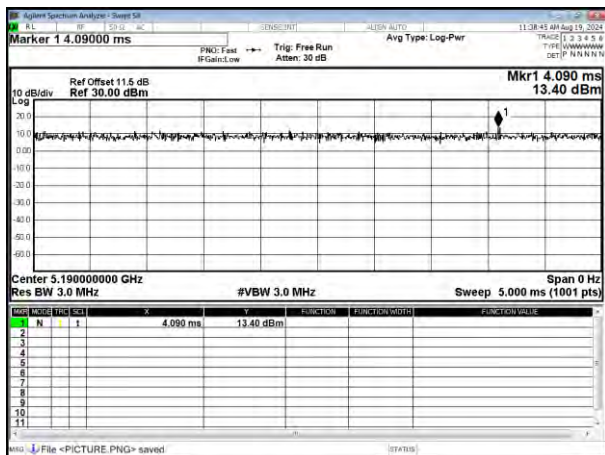
Modulation Type: 802.11a



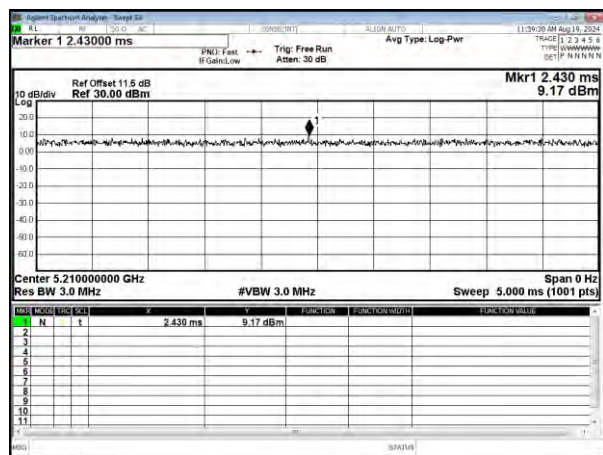
Modulation Type: 802.11ac VHT20



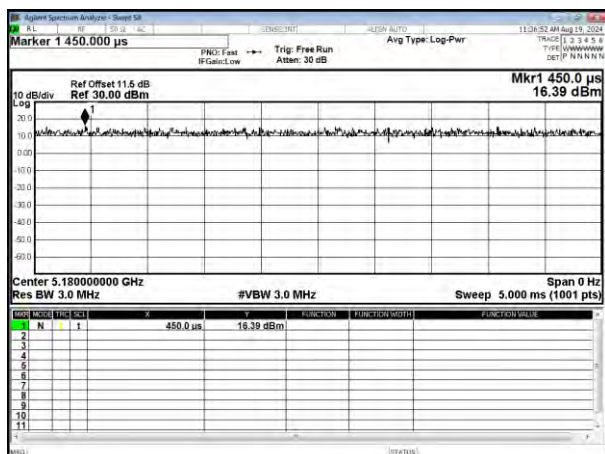
Modulation Type: 802.11ac VHT40



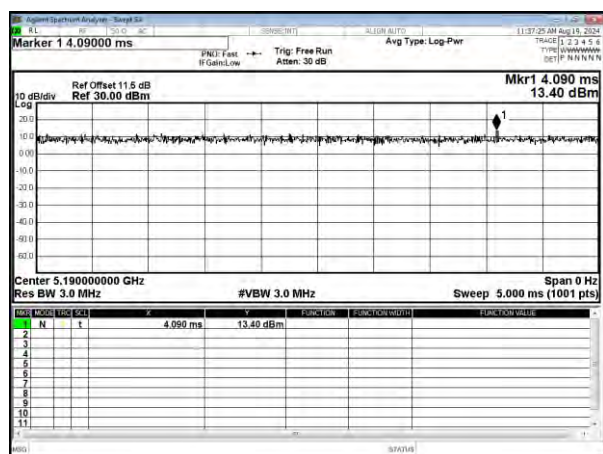
Modulation Type: 802.11ac VHT80



Modulation Type: 802.11ax HE20

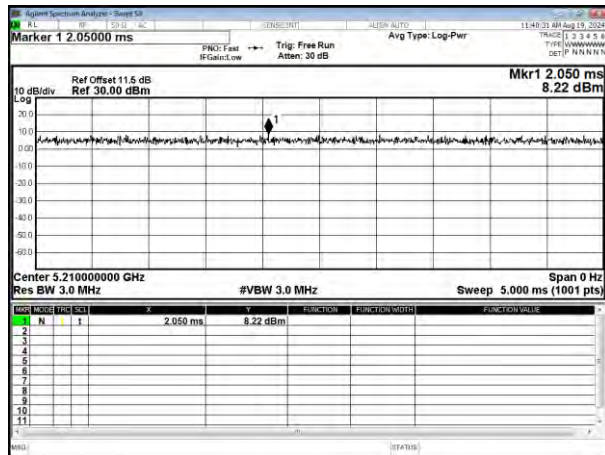


Modulation Type: 802.11ax HE40





Modulation Type: 802.11ax HE80





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

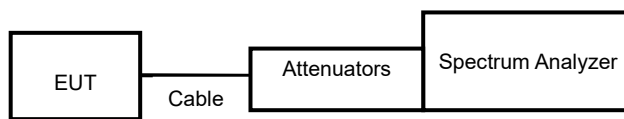
FCC §15.407

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 to 100KHz, the VBW $\geq 3 \times$ 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	16.55	16.45	0.50
	157	5785	16.56	16.48	0.50
	165	5825	16.56	16.49	0.50

MIMO

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11ac VHT20	149	5745	16.66	17.57	0.50
	157	5785	17.21	17.57	0.50
	165	5825	17.31	16.92	0.50
802.11ac VHT40	155	5755	35.10	35.09	0.50
	159	5795	32.60	35.07	0.50
802.11ac VHT80	155	5775	75.19	75.16	0.50
802.11ax HE20	149	5745	18.46	18.42	0.50
	157	5785	18.79	18.01	0.50
	165	5825	18.48	18.11	0.50
802.11ax HE40	155	5755	35.11	35.07	0.50
	159	5795	35.14	35.14	0.50
802.11ax HE80	155	5775	73.97	75.19	0.50

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

In the 5.8GHz Band

SISO

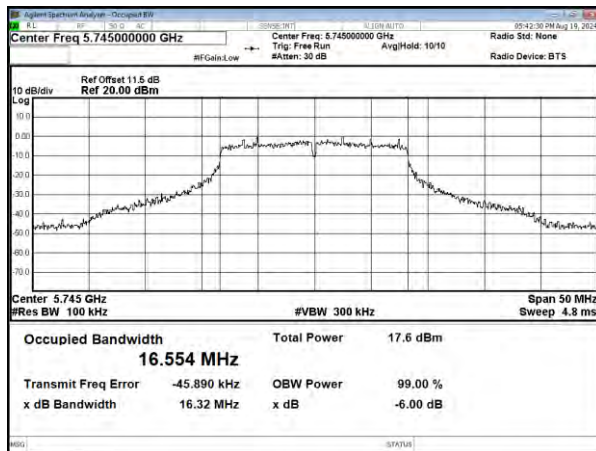
Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
802.11a	149	5745	17.78	17.15
	157	5785	18.15	16.98
	165	5825	21.49	16.87

MIMO

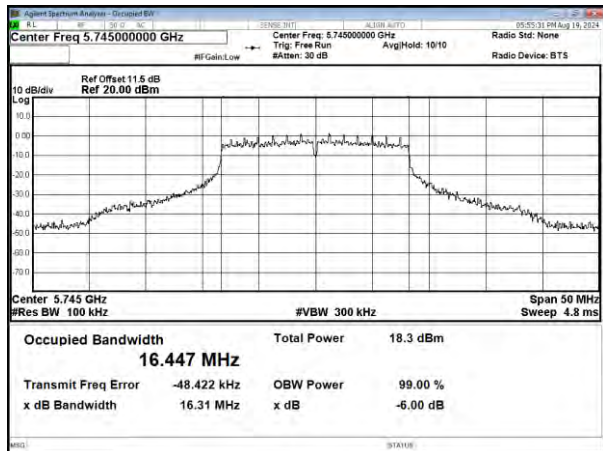
Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
802.11ac VHT20	149	5745	25.86	24.46
	157	5785	24.40	24.89
	165	5825	24.94	24.37
802.11ac VHT40	155	5755	40.17	39.31
	159	5795	40.25	39.62
802.11ac VHT80	155	5775	89.10	79.58
802.11ax HE20	149	5745	27.63	21.78
	157	5785	21.99	21.29
	165	5825	21.66	21.77
802.11ax HE40	155	5755	39.58	39.65
	159	5795	39.59	39.66
802.11ax HE80	155	5775	80.05	80.05



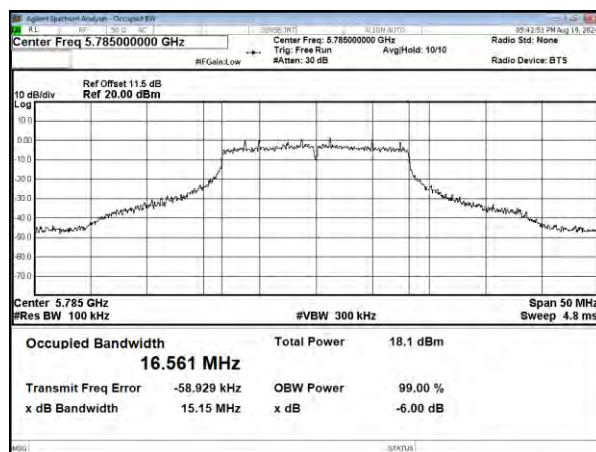
6dB Bandwidth
SISO-ANT A
Modulation Type: 802.11a
CH149



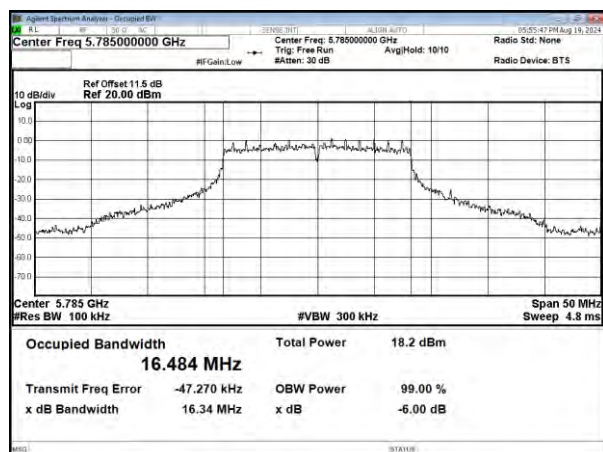
SISO-ANT B
Modulation Type: 802.11a
CH149



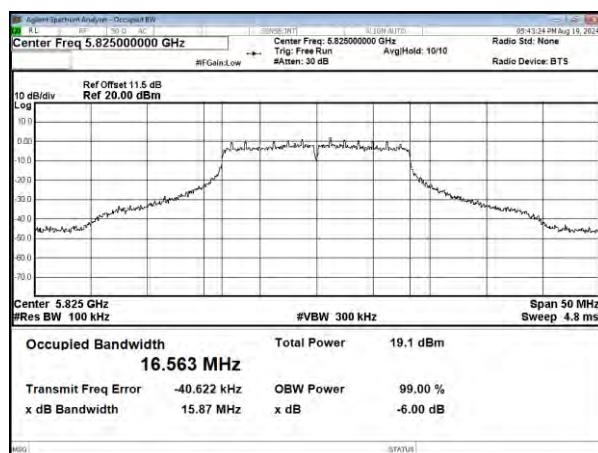
CH157



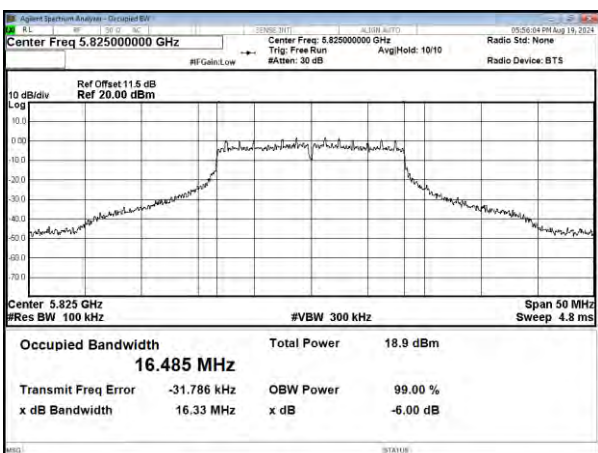
CH157



CH165

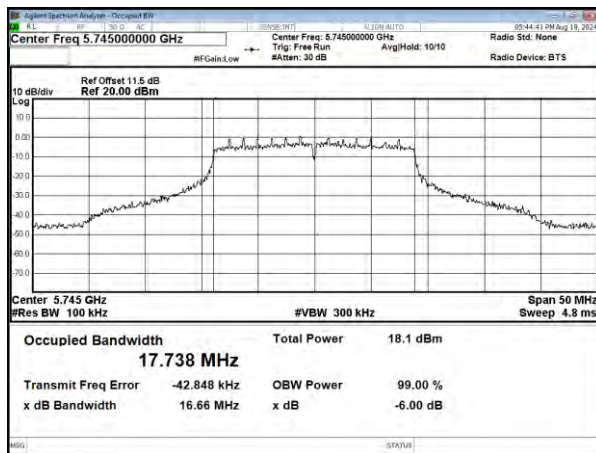
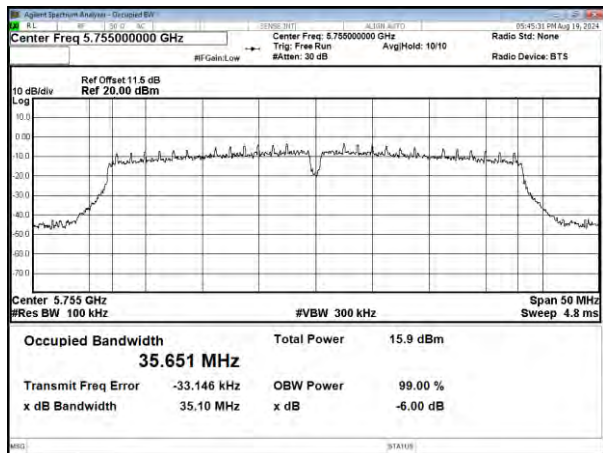


CH165

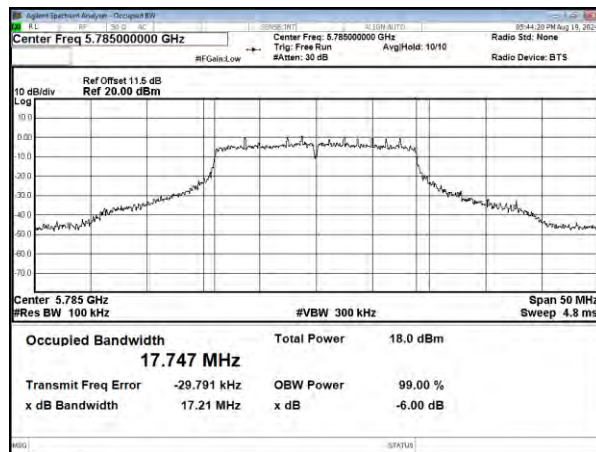




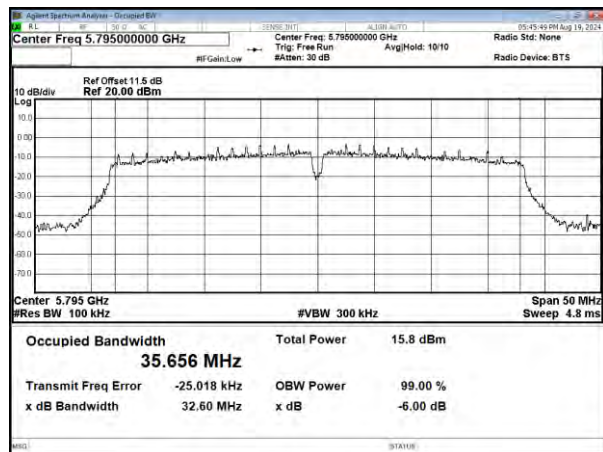
MIMO (ANT A)

Modulation Type: 802.11ac, VHT20
CH149Modulation Type: 802.11ac, VHT40
CH151

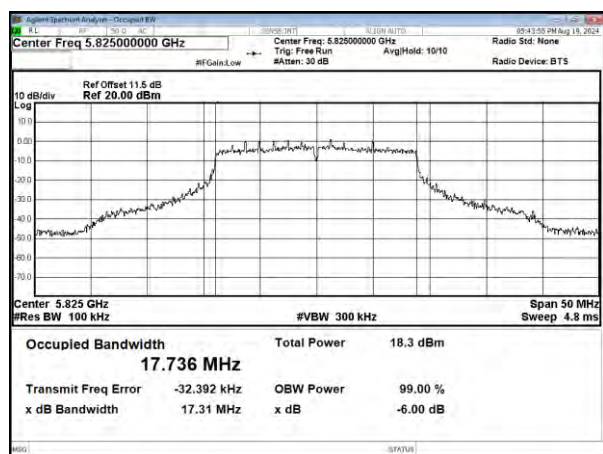
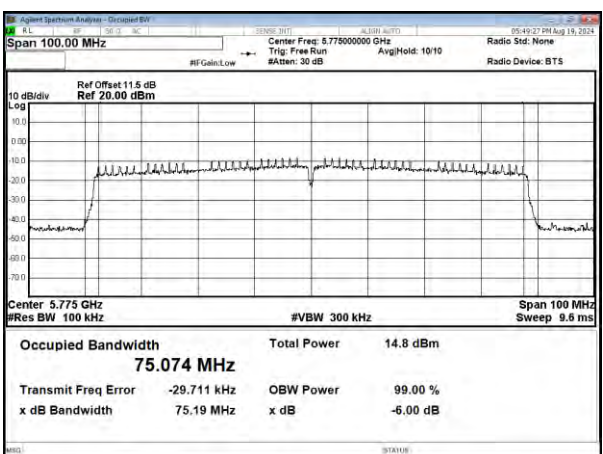
CH157



CH159

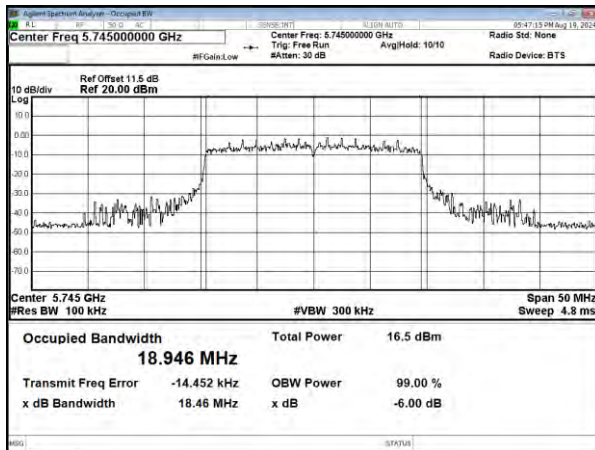


CH165

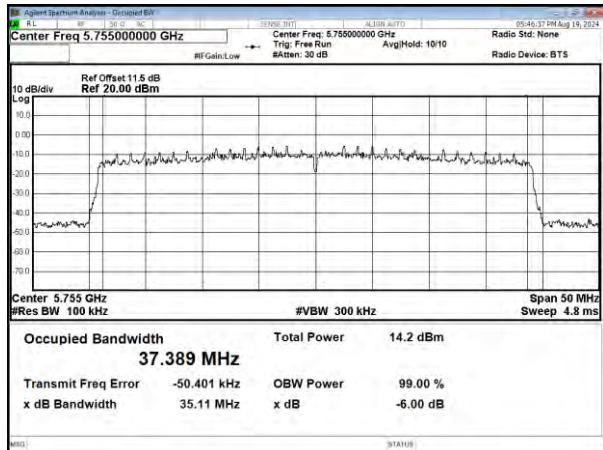
Modulation Type: 802.11ac, VHT80
CH155



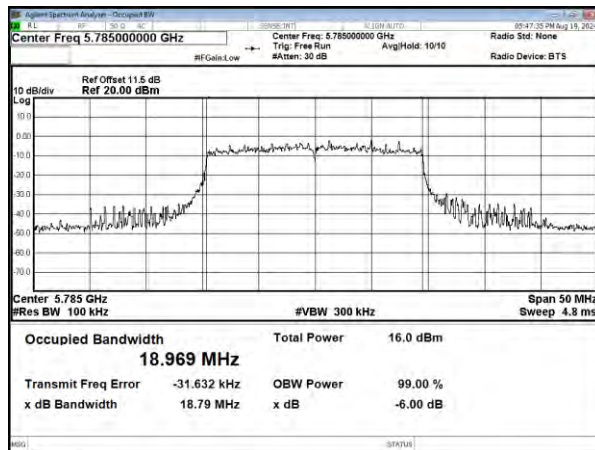
Modulation Type: 802.11ax, HE20
CH149



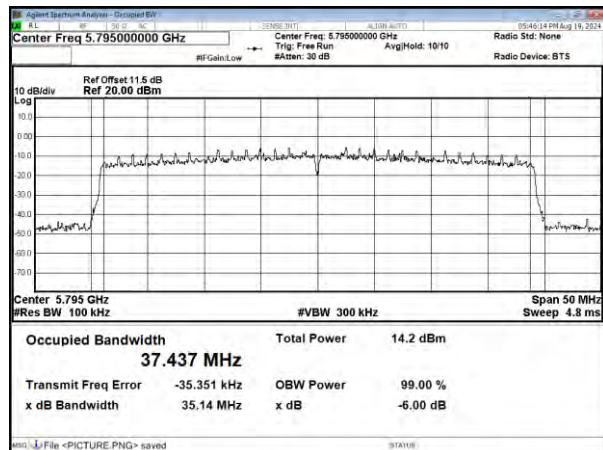
Modulation Type: 802.11ax, HE40
CH151



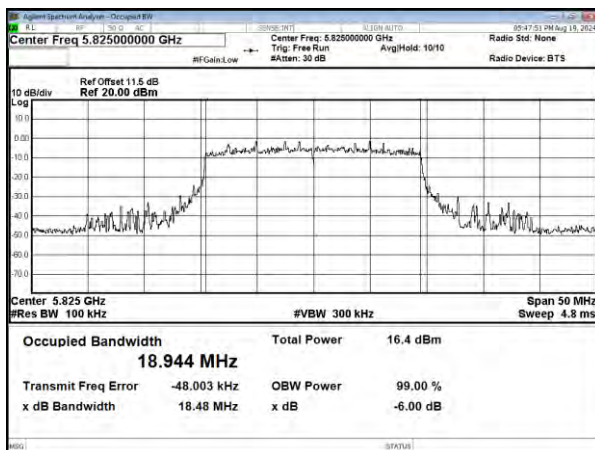
CH157



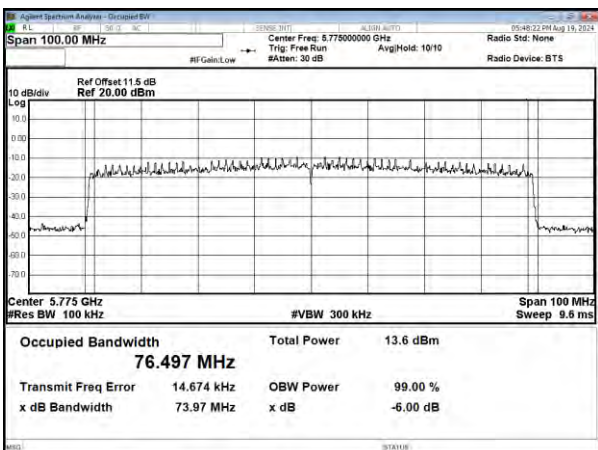
CH159



CH165



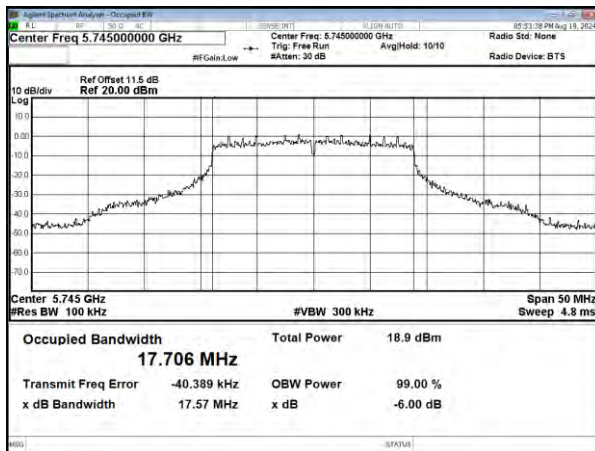
Modulation Type: 802.11ax, HE80
CH155



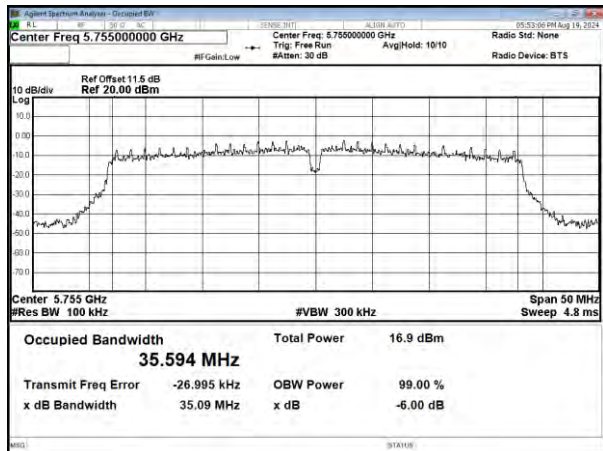


MIMO (ANT B)

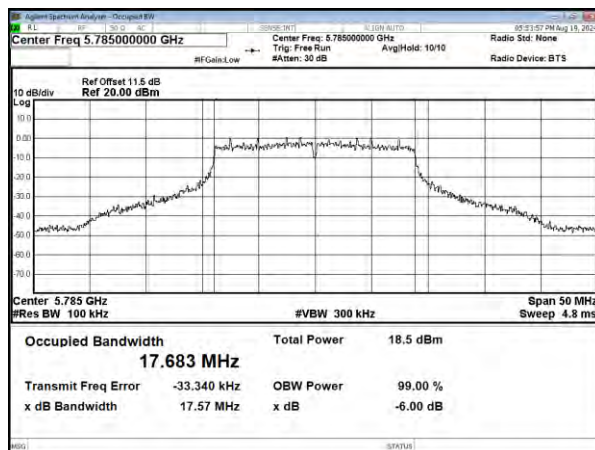
Modulation Type: 802.11ac, VHT20
CH149



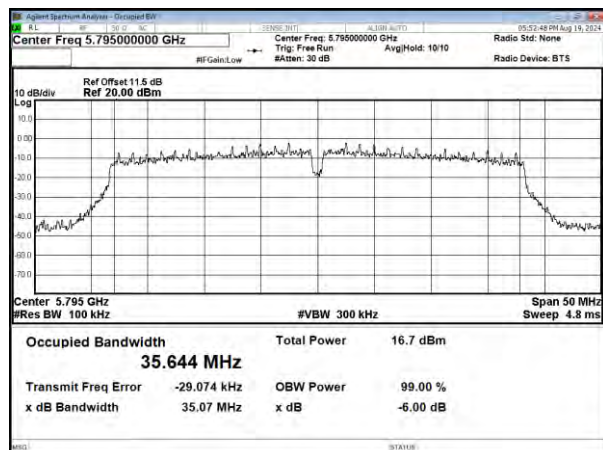
Modulation Type: 802.11ac, VHT40
CH151



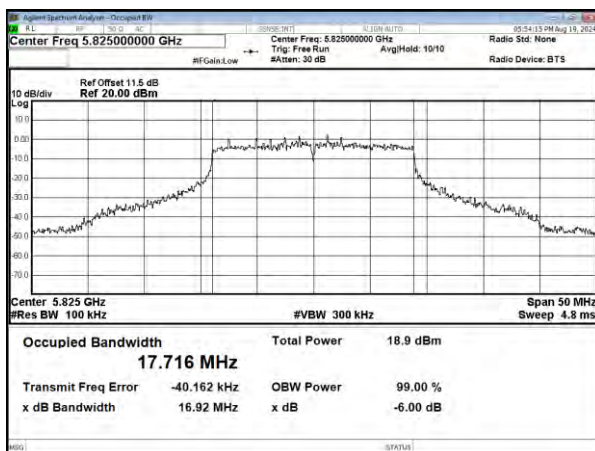
CH157



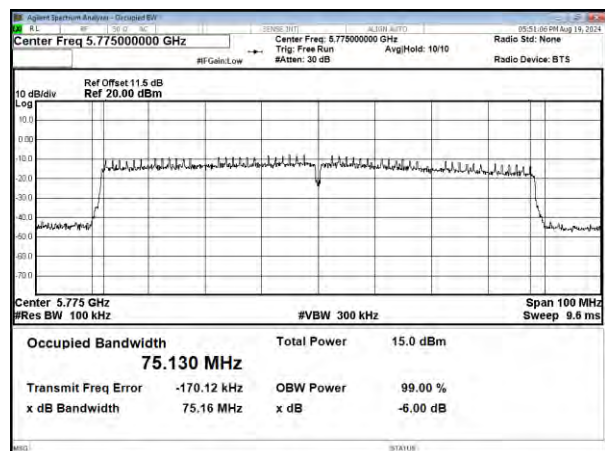
CH159



CH165

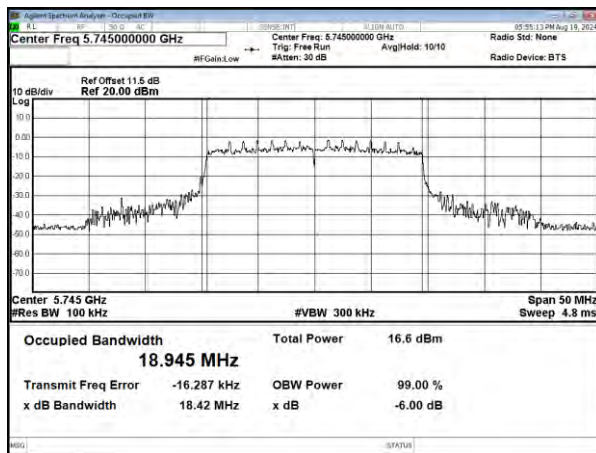


Modulation Type: 802.11ac, VHT80
CH155

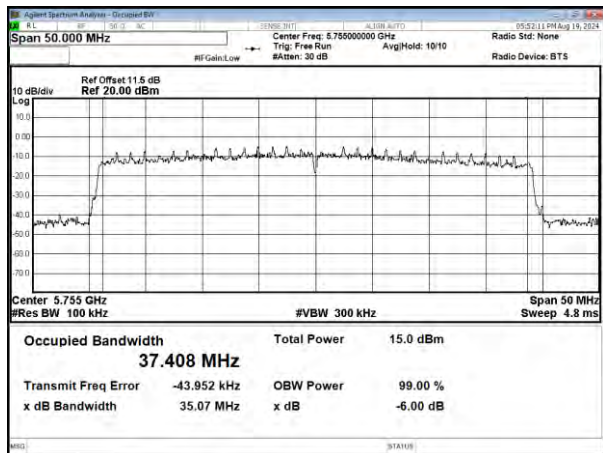




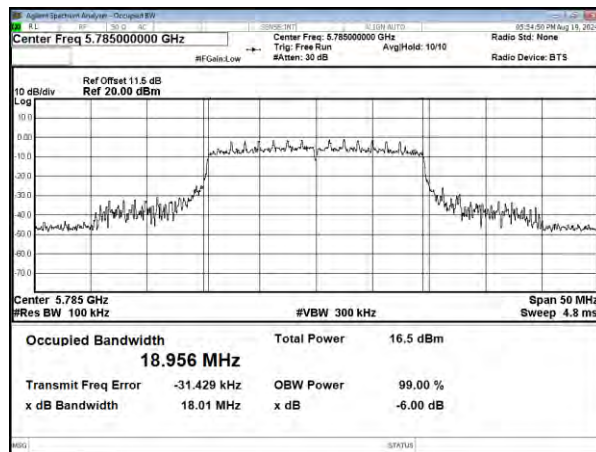
Modulation Type: 802.11ax, HE20
CH149



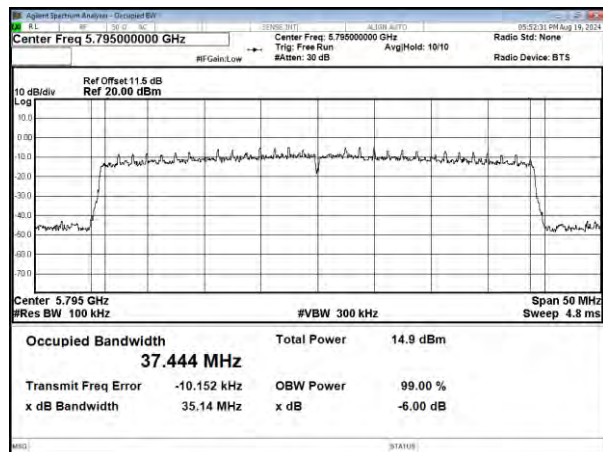
Modulation Type: 802.11ax, HE40
CH151



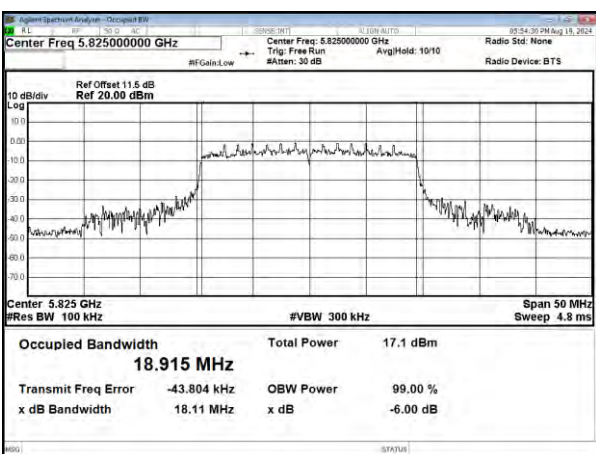
CH157



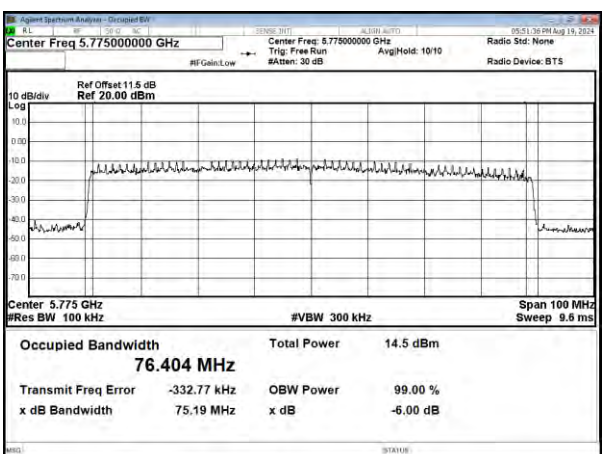
CH159



CH165

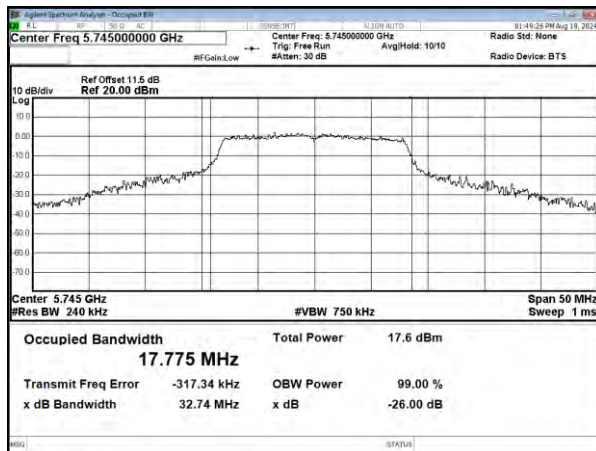


Modulation Type: 802.11ax, HE80
CH155

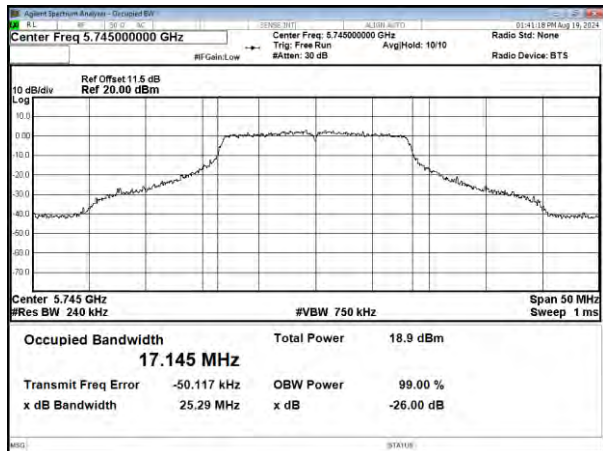




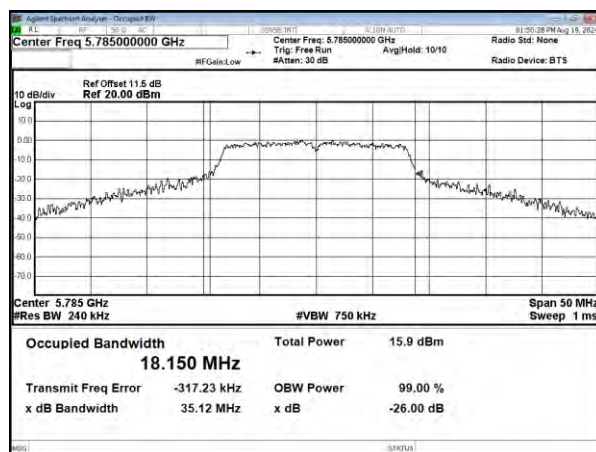
99% Occupied Bandwidth
SISO-ANT A
Modulation Type: 802.11a
CH149



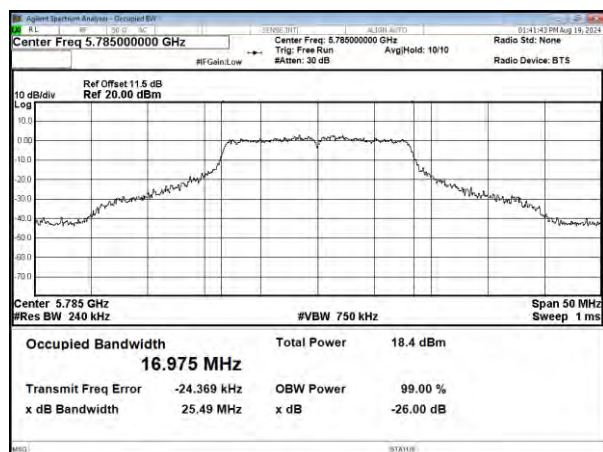
SISO-ANT B
Modulation Type: 802.11a
CH149



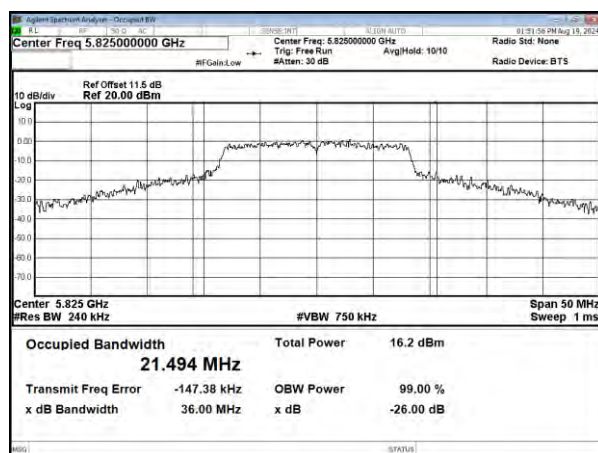
CH157



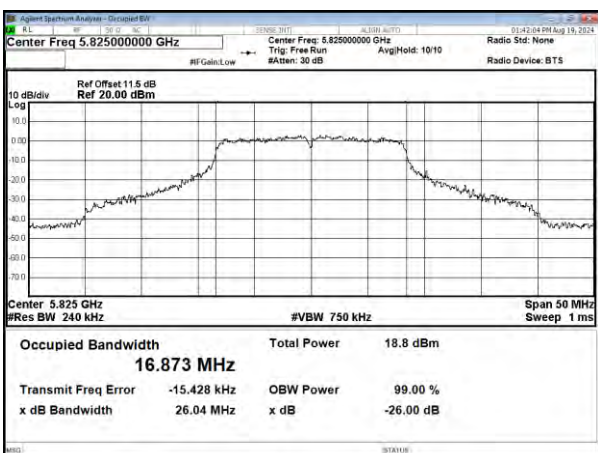
CH157



CH165

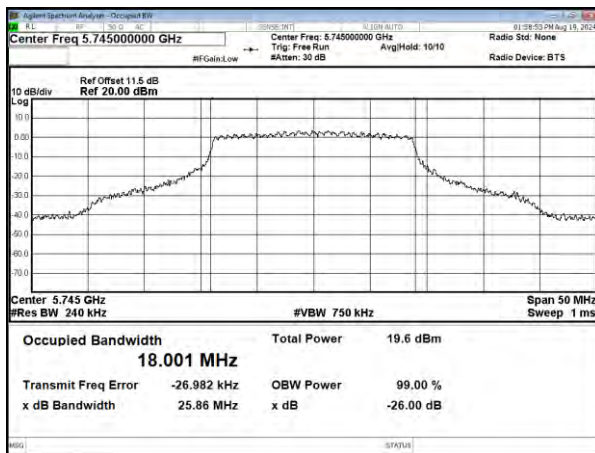
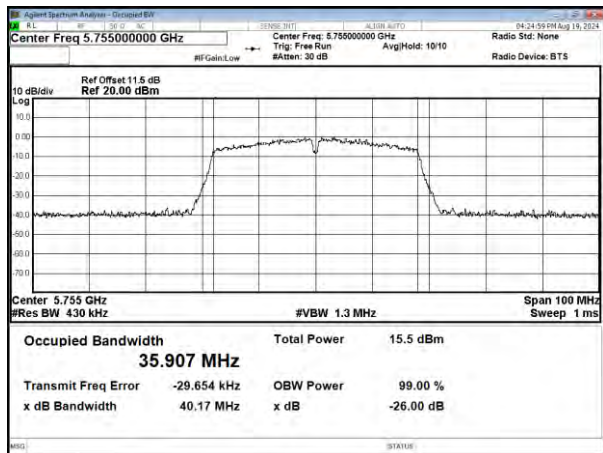


CH165

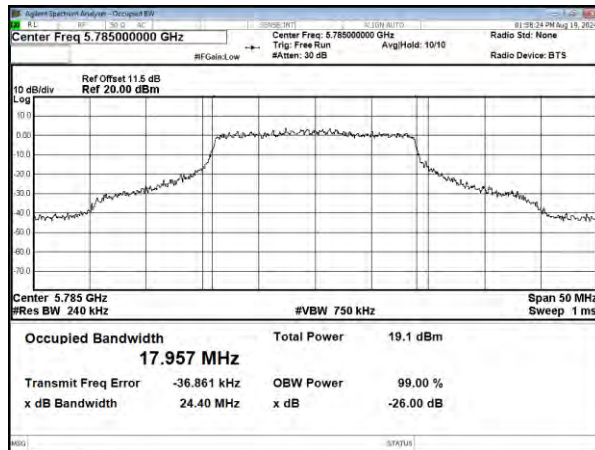




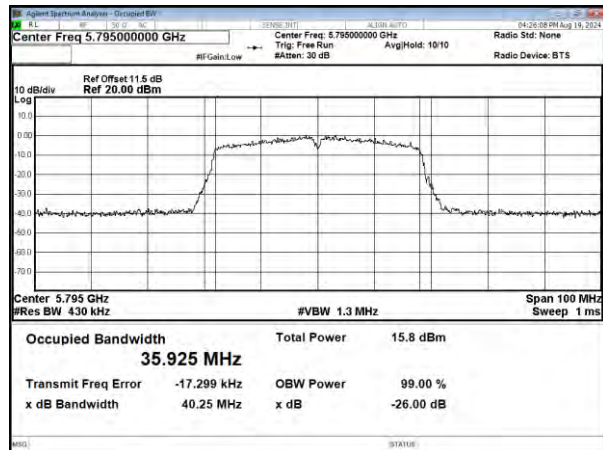
MIMO (ANT A)

Modulation Type: 802.11ac, VHT20
CH149Modulation Type: 802.11ac, VHT40
CH151

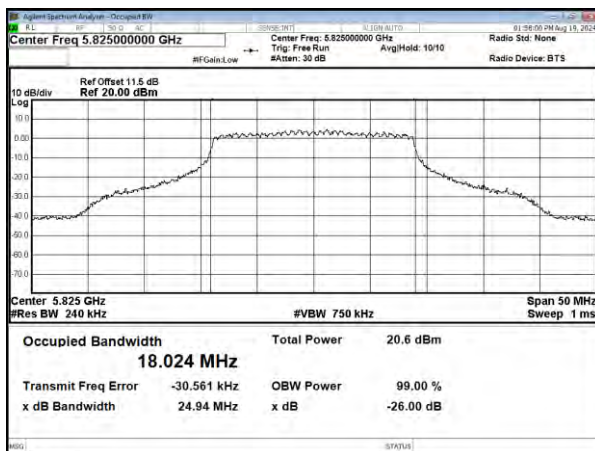
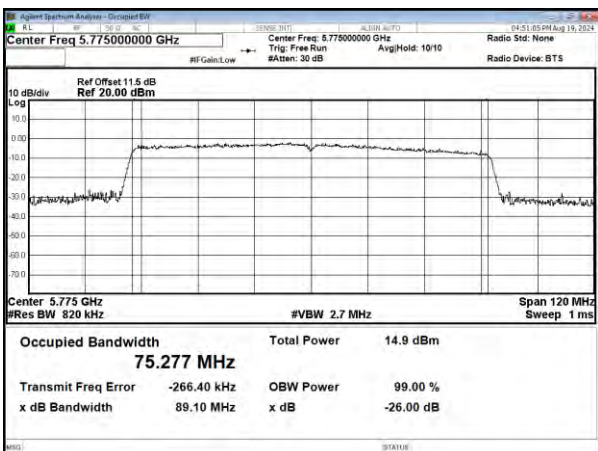
CH157



CH159

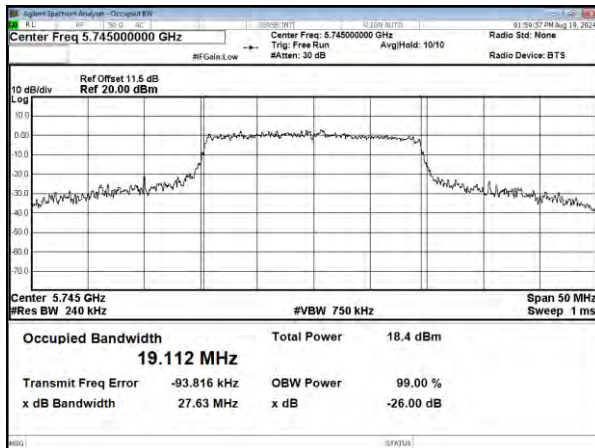


CH165

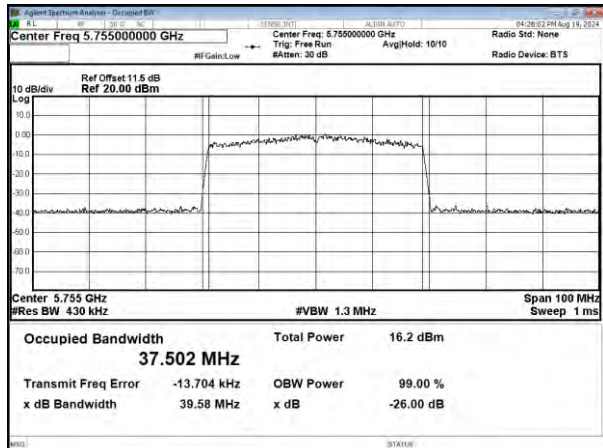
Modulation Type: 802.11ac, VHT80
CH155



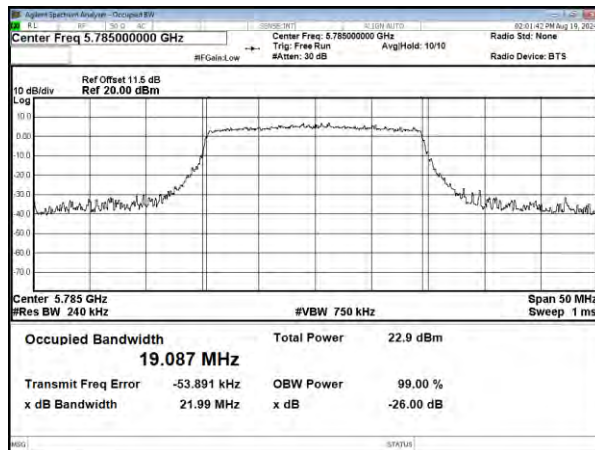
Modulation Type: 802.11ax, HE20
CH149



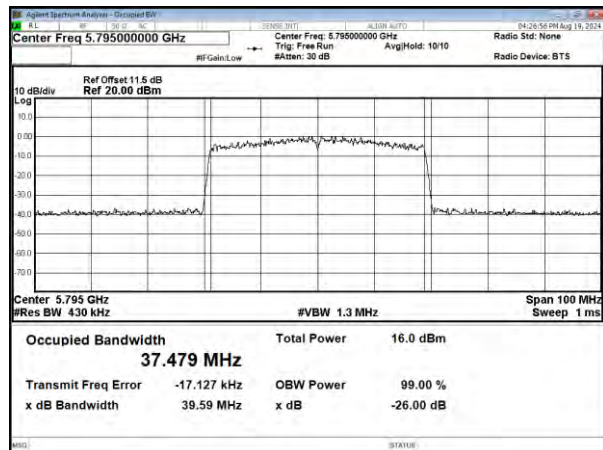
Modulation Type: 802.11ax, HE40
CH151



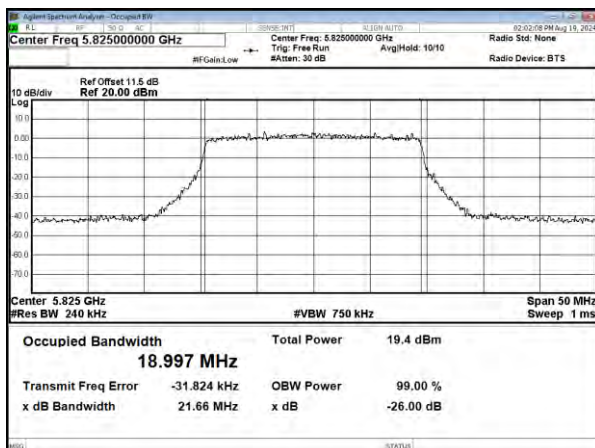
CH157



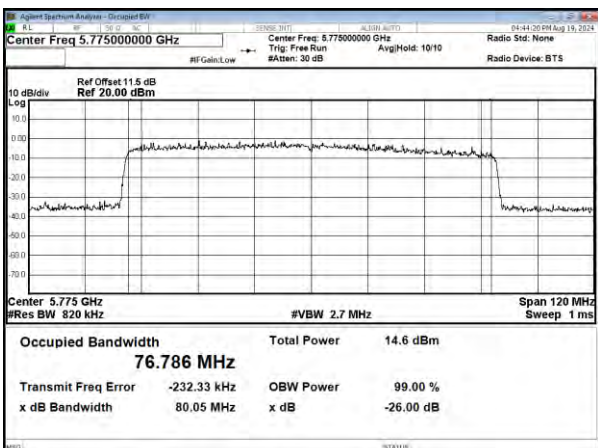
CH159



CH165

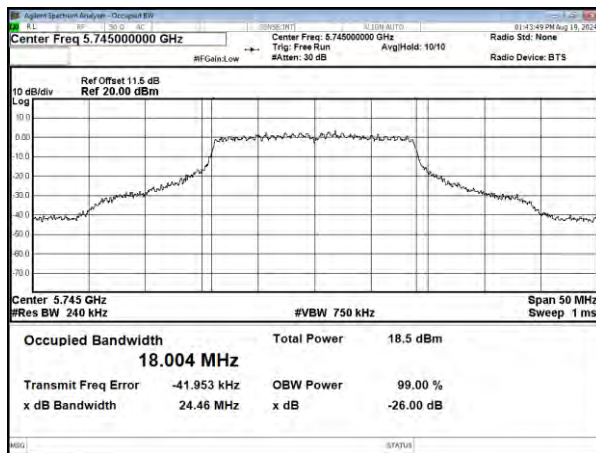
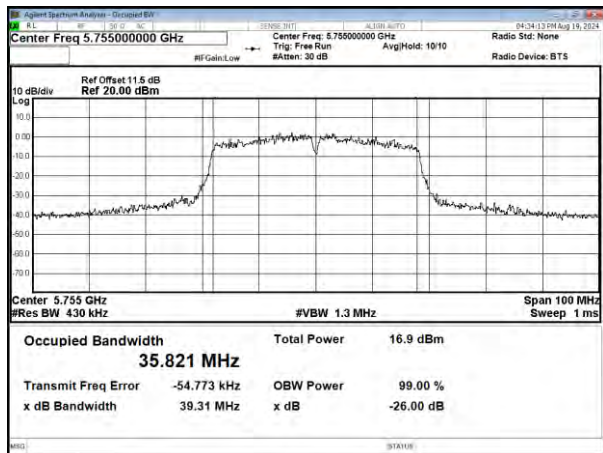


Modulation Type: 802.11ax, HE80
CH155

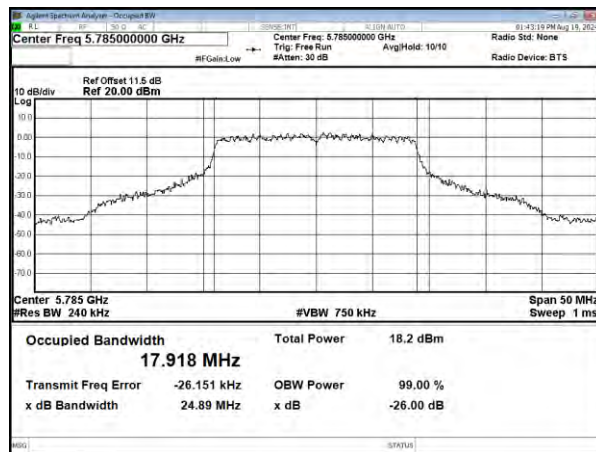




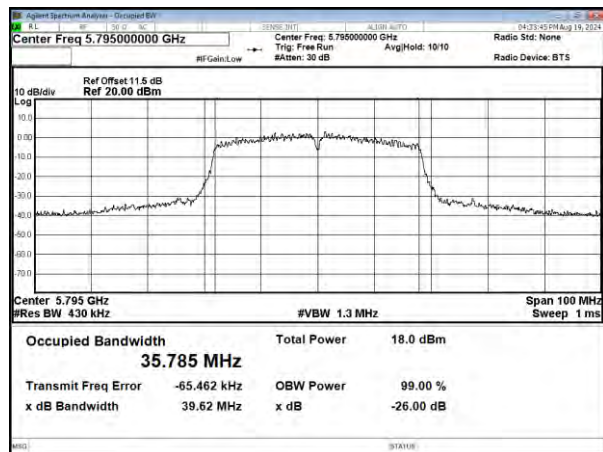
MIMO (ANT B)

Modulation Type: 802.11ac, VHT20
CH149Modulation Type: 802.11ac, VHT40
CH151

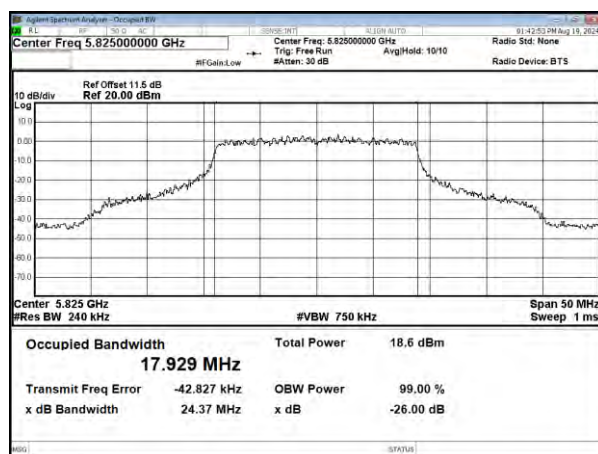
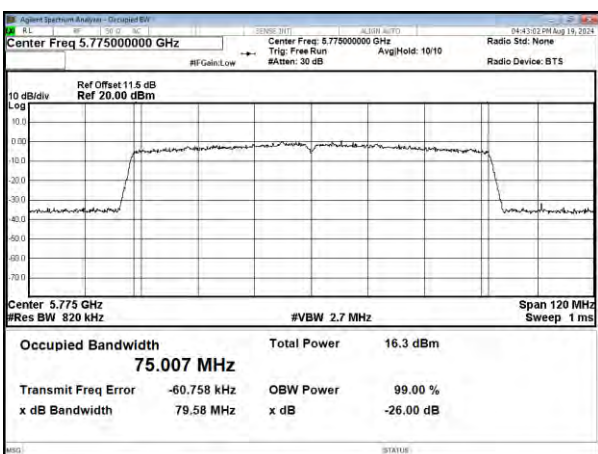
CH157



CH159

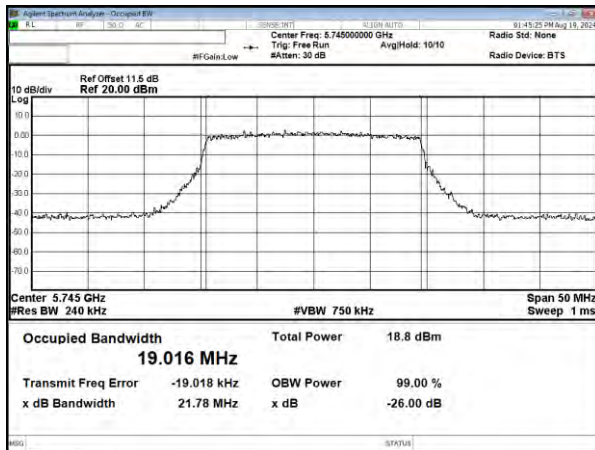


CH165

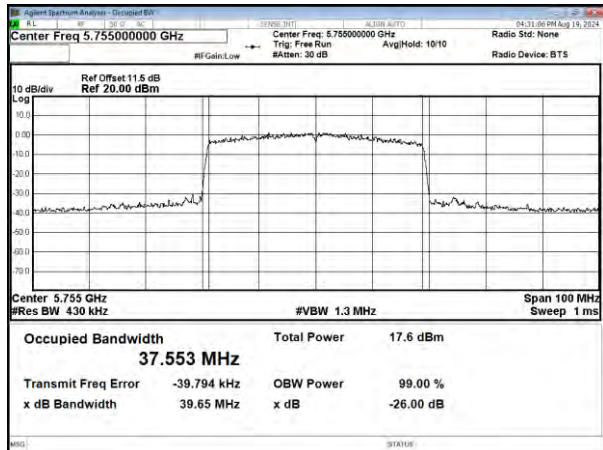
Modulation Type: 802.11ac, VHT80
CH155



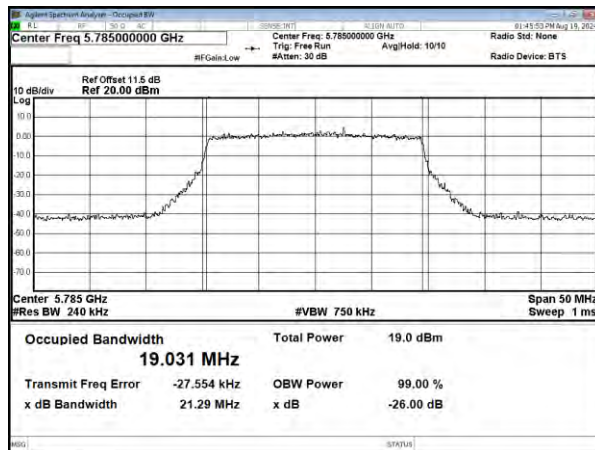
Modulation Type: 802.11ax, HE20
CH149



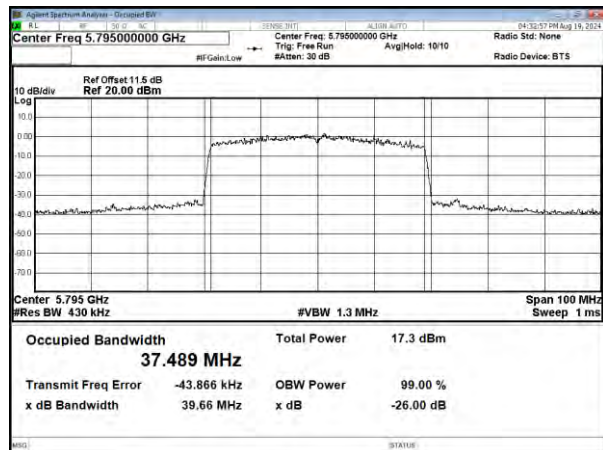
Modulation Type: 802.11ax, HE40
CH151



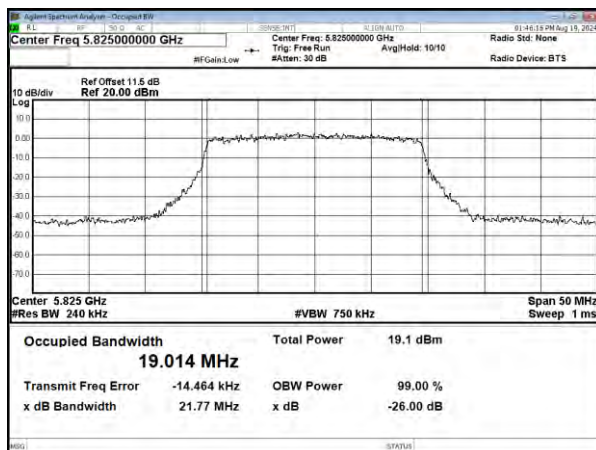
CH157



CH159



CH165



Modulation Type: 802.11ax, HE80
CH155

