



FCC RADIO TEST REPORT

Applicant : LT Security Inc

Address : 17333 Freedom Way, City of
Industry, California, United States, 91748

Equipment : WIFI doorbell

Model No. : LXDB4I-WIFI

Trade Name : N/A

FCC ID : 2A2TG-LXDB4I

I HEREBY CERTIFY THAT :

The sample was received on Dec. 25, 2025 and the testing was completed on Jan. 15, 2026 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
25120476-TRDFCC03	Jan. 15, 2026	Original



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024

FCC Rules and Regulations Part 15 Subpart E §15.407

KDB 789033

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	PASS
15.207(a)	AC Power Line Conducted Emission	PASS
15.407(b) 15.209	Radiated Spurious Emission	PASS
15.407(a)	26 dB & Occupied Bandwidth	PASS
15.407	6 dB Bandwidth	PASS
15.407 (a) & (a)(3)	Average Power	PASS
15.407(a)	Power Spectral Density	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.



2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

Equipment	WIFI doorbell
Model Name	LXDB4I-WIFI
Model Discrepancy	N/A
Frequency Range	BLE/ WIFI 2.4G: 2400MHz-2483.5MHz WIFI 5G: 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz -5725MHz, 5725MHz -5850MHz
Modulation Type	BLE: GFSK 2.4GHz 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Data Rate	BLE: GFSK: 1Mbps, 2Mbps, 125kbps, 500kbps WIFI 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-MCS7, HT20 802.11ax: MCS0-MCS11, HE20 WIFI 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-MCS7, HT20/HT40 802.11ac: MCS0-MCS9, VHT20/40 802.11ax: MCS0-MCS11, HE20/HE40
Working Temperature	-25°C to 55°C
EUT Power Rating:	10-24 VDC/14-24 VAC, 1.0 A; 5V/DC 2A

Note:

1. EUT support Client mode without radar detection.
2. The EUT not support TPC
3. 802.11ax only support full RU.
4. For more details, please refer to the User's manual of the EUT.



2.2. Carrier Frequency of Channels

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*36	5180	*44	5220
40	5200	*48	5240

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*38	5190	*46	5230

Band: 5250MHz-5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*52	5260	*60	5300
56	5280	*64	5320

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*54	5270	*62	5310

Band: 5470MHz-5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
*116	5580	*140	5700
120	5600		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*102	5510	126	5630
*110	5550	*134	5670
118	5590		

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20, 802.11ax HE20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*149	5745	161	5805
153	5765	*165	5825
*157	5785		

802.11n HT40, 802.11ac VHT40, 802.11ax HE40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*151	5755	*159	5795

Note: Channels remarked * are selected to perform test.



2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- An executive program, "SecureCRT.exe (Ver.: 6.2.3.313)" under WIN10 system was executed to transmit and receive data via Wireless.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11a (6Mbps) for 120V
2	802.11n HT20 (6.5Mbps) for 120V
3	802.11n HT40 (13.5Mbps) for 120V
4	802.11ac VHT20 (6.5Mbps) for 120V
5	802.11ac VHT40 (13.5Mbps) for 120V
6	802.11ax HE20 (7.3Mbps) for 120V
7	802.11ax HE40 (14.6Mbps) for 120V
8	802.11ax HE40 (14.6Mbps) for 240V
caused "Test Mode 1 at CH157:5785MHz" generated the worst case, it was reported as the final data.	
Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11n HT20 (6.5Mbps)
3	802.11n HT40 (13.5Mbps)
4	802.11ac VHT20 (6.5Mbps)
5	802.11ac VHT40 (13.5Mbps)
6	802.11ax HE20 (7.3Mbps)
7	802.11ax HE40 (14.6Mbps)
caused "Test Mode 1 at CH157:5785MHz" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps)
2	802.11n HT20 (6.5Mbps)
3	802.11n HT40 (13.5Mbps)
4	802.11ac VHT20 (6.5Mbps)
5	802.11ac VHT40 (13.5Mbps)
6	802.11ax HE20 (7.3Mbps)
7	802.11ax HE40 (14.6Mbps)
caused "Test Mode 1,6~7" generated the worst case, it was reported as the final data.	

Modulation Type	TX CONFIGURATION
802.11a	1TX
802.11n HT20	1TX
802.11n HT40	1TX
802.11ac VHT20	1TX
802.11ac VHT40	1TX
802.11ax HE20	1TX
802.11ax HE40	1TX
* 802.11ax covers 802.11ac, 802.11n, due to same modulation. 802.11ax mode is the worst case for final tests except RF output power test after pretesting all modulation type.	

**2.4. Description of Test System**

AC Power Line Conducted Emission					
Equipment	Brand	Model	Serial No	Length/Type	Power cord/Length/Type
Notebook	AUAS	P2430U	GBNXC13 M064467	N/A	Adapter / 1.8m / NS
testfixture	YD-TECH	MCS-73 LV	N/A	N/A	N/A
Adapter	Datong	PWC-48028	24120544	N/A	N/A
Type C To C(white)	kolin	KEX-DLCP52	N/A	1M/NS	N/A
Radiated Emissions (Below 1G) / Radiated Emissions (Above 1G) / RF Conducted					
Notebook	AUAS	P2430U	GBNXC13 M064467	N/A	Adapter / 1.8m / NS
testfixture	YD-TECH	MCS-73 LV	N/A	N/A	N/A
USB Cable (A to B)	BENEVO	BUSB0301AMFB	N/A	0.8m / NS	N/A
Adapter	Datong	PWC-48028	24120544	N/A	N/A
Type C To C(white)	kolin	KEX-DLCP52	N/A	1M/NS	N/A



2.5. General Information of Test

Organization	Cerpass Technology Corp.		
☒ Test Site	Cerpass Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881		
	FCC	TW1439, TW1079	
	IC	4934E-1, 4934E-2	
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 9 kHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2026/01/13~2026/01/14	25~25.2℃ / 48~52%	Leon Huang
Radiated Emissions	3M02-NK	2026/01/02~2026/01/15	17.8~20.4℃ / 55~56%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2026/01/15	17.7℃ / 57%	Leon Huang



2.6. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Item	Uncertainty
AC Power Line Conduction(150kHz~30MHz)	±3.2dB
Radiated Spurious Emission(9kHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.2dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±4.4%
26dB Bandwidth	±4.5%
Occupied Bandwidth	±4.4%
Peak Output Power(Conducted Power Meter)	±1.4dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±223.073Hz



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A020514-1	2025/06/11	2026/06/10
Active Loop Antenna	EMCO	6507	00040855	2025/04/28	2026/04/27
Horn Antenna	EMCO	3116	31974	2025/10/07	2026/10/06
Horn Antenna	Schwarzbeck	BBHA 9120 D	2203	2025/03/07	2026/03/06
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	101329	2025/06/10	2026/06/09
EMI Receiver	ROHDE & SCHWARZ	ESR7	101906	2025/05/19	2026/05/18
Preamplifier	Agilent	8449B	3008A01954	2025/02/12	2026/02/11
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2025/10/13	2026/10/12
Preamplifier	EM Electronics corp.	EM330	60611	2025/03/28	2026/03/27
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
Cable-8m(10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2025/10/15	2026/10/14
Cable-3m(10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2025/10/15	2026/10/14
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804619/2	2025/10/13	2026/10/12
Cable-1m(10M-40G)	HUBER SUHNER	SF102	804398/2	2025/10/13	2026/10/12
Cable-1m(1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2025/10/15	2026/10/14
Cable-4m(30M-1G)	HUBER SUHNER	RG-214	02953M	2025/07/11	2026/07/10
Cable-1m(30M-1G)	HUBER SUHNER	RG-214	05094M	2025/07/11	2026/07/10
Cable-9m(30M-1G)	HUBER SUHNER	RG-214	00402M	2025/07/11	2026/07/10
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WR377WC2B1	2025/10/15	2026/10/14
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR377WC2B2	2025/10/15	2026/10/14

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2025/04/23	2026/04/22
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11

Test Item	AC Power Line Conducted Emission				
Test Site	CON02-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESR7	101906	2025/05/19	2026/05/18
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	1197	2025/02/26	2026/02/25
Two-Line V-Network	ROHDE & SCHWARZ	ENV216	101584	2025/02/26	2026/02/25
Cable-4m(9k-3G)	EMEC	RG-223	18274M	2025/07/02	2026/07/01
E3	AUDIX	v8.2014-8-6	RK-000536	NA	NA



4. Antenna Requirements

4.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2. Antenna Construction and Directional Gain

Antenna Type	Built-in Antenna
Antenna Gain	5150MHz - 5250MHz: ANT A:2.13dBi 5250MHz - 5350MHz: ANT A:1.99dBi 5470MHz - 5725MHz: ANT A:3.25dBi 5725MHz - 5850MHz: ANT A:2.50dBi



5. Test of AC Power Line Conducted Emission

5.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

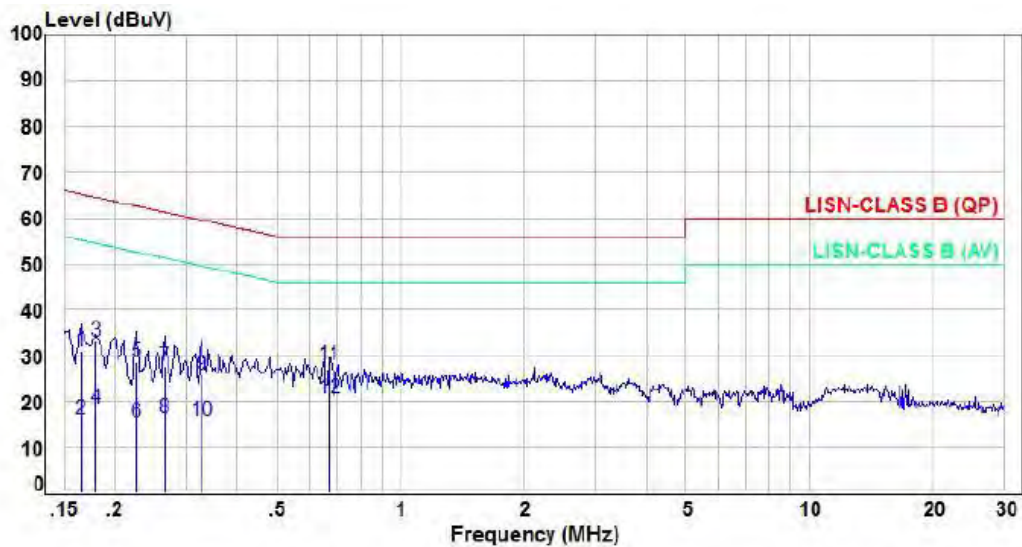
5.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



5.4. Test Result and Data

Power	:	From Adapter (AC 120V/60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.1650	9.54	21.46	31.00	65.21	-34.21	QP	P
2	0.1650	9.54	6.56	16.10	55.21	-39.11	Average	P
3	0.1796	9.54	23.67	33.21	64.50	-31.29	QP	P
4	0.1796	9.54	9.06	18.60	54.50	-35.90	Average	P
5	0.2256	9.53	18.97	28.50	62.61	-34.11	QP	P
6	0.2256	9.53	6.05	15.58	52.61	-37.03	Average	P
7	0.2644	9.54	18.03	27.57	61.29	-33.72	QP	P
8	0.2644	9.54	7.03	16.57	51.29	-34.72	Average	P
9	0.3251	9.54	16.22	25.76	59.57	-33.81	QP	P
10	0.3251	9.54	6.20	15.74	49.57	-33.83	Average	P
11	0.6683	9.57	18.34	27.91	56.00	-28.09	QP	P
12	0.6683	9.57	11.14	20.71	46.00	-25.29	Average	P

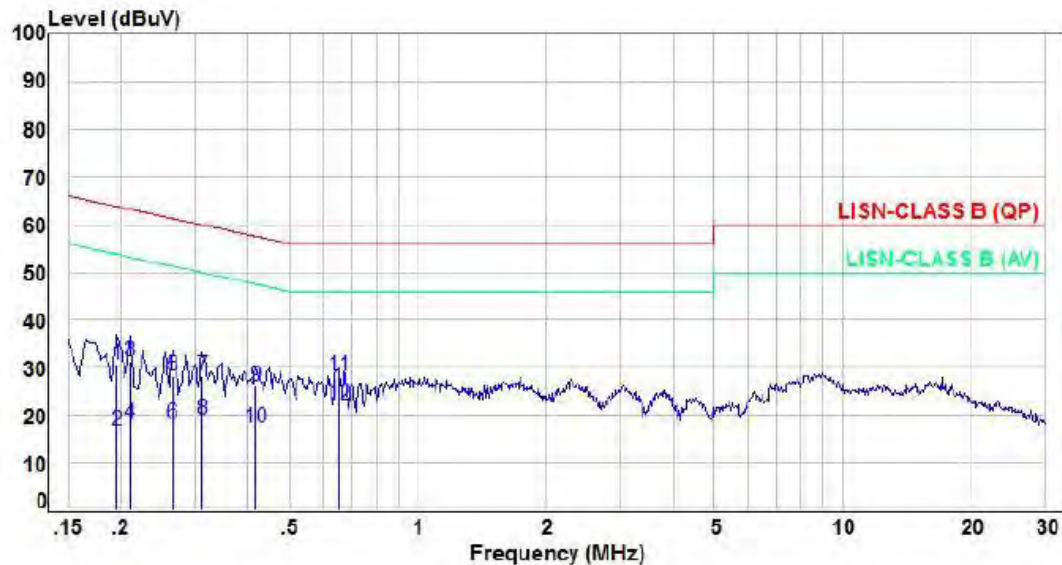
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	From Adapter (AC 120V/60Hz)	Pol/Phase	:	NEUTRAL
Test Mode	:	Mode 1, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1955	9.55	21.22	30.77	63.80	-33.03	QP	P
2	0.1955	9.55	7.28	16.83	53.80	-36.97	Average	P
3	0.2106	9.55	21.70	31.25	63.18	-31.93	QP	P
4	0.2106	9.55	8.60	18.15	53.18	-35.03	Average	P
5	0.2644	9.56	18.59	28.15	61.29	-33.14	QP	P
6	0.2644	9.56	8.65	18.21	51.29	-33.08	Average	P
7	0.3100	9.57	18.66	28.23	59.97	-31.74	QP	P
8	0.3100	9.57	9.59	19.16	49.97	-30.81	Average	P
9	0.4148	9.59	16.51	26.10	57.55	-31.45	QP	P
10	0.4148	9.59	7.78	17.37	47.55	-30.18	Average	P
11	0.6508	9.62	18.52	28.14	56.00	-27.86	QP	P
12	0.6508	9.62	12.53	22.15	46.00	-23.85	Average	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



6. Test of Spurious Emission (Radiated)

6.1. Test Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.



6.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

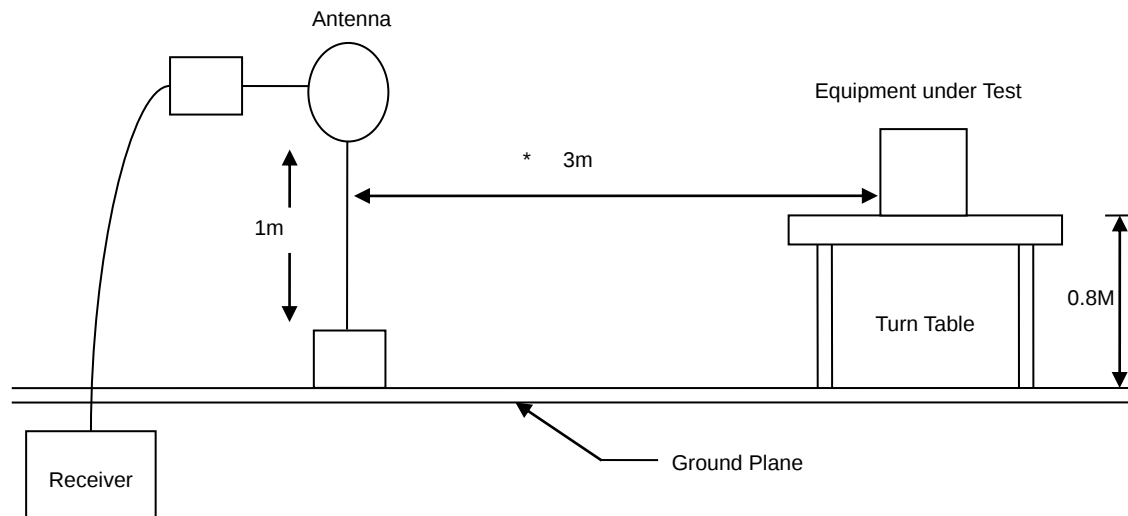
Note:

1. The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(X-AXIS is the worst.)

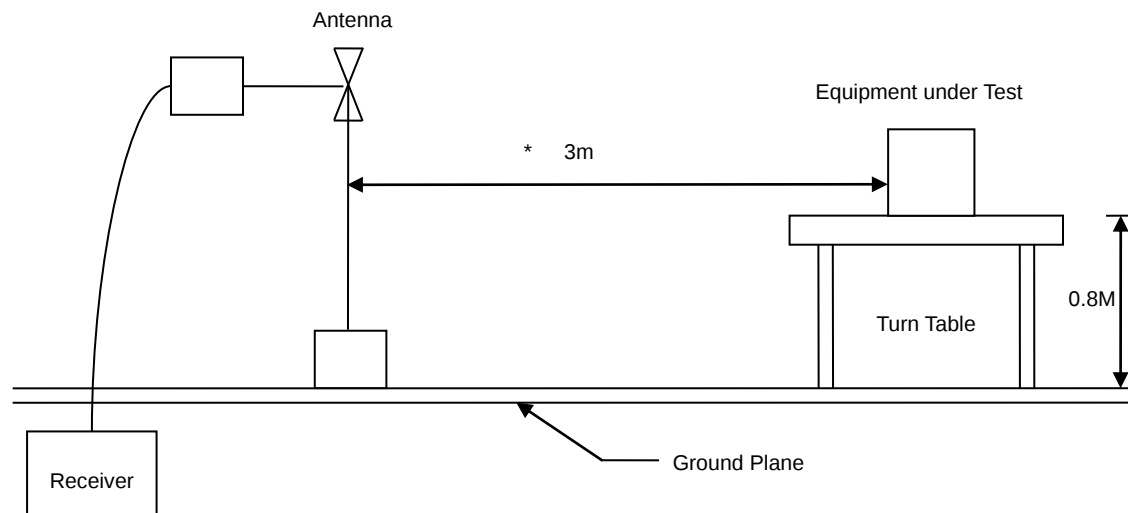


6.3. Typical Test Setup

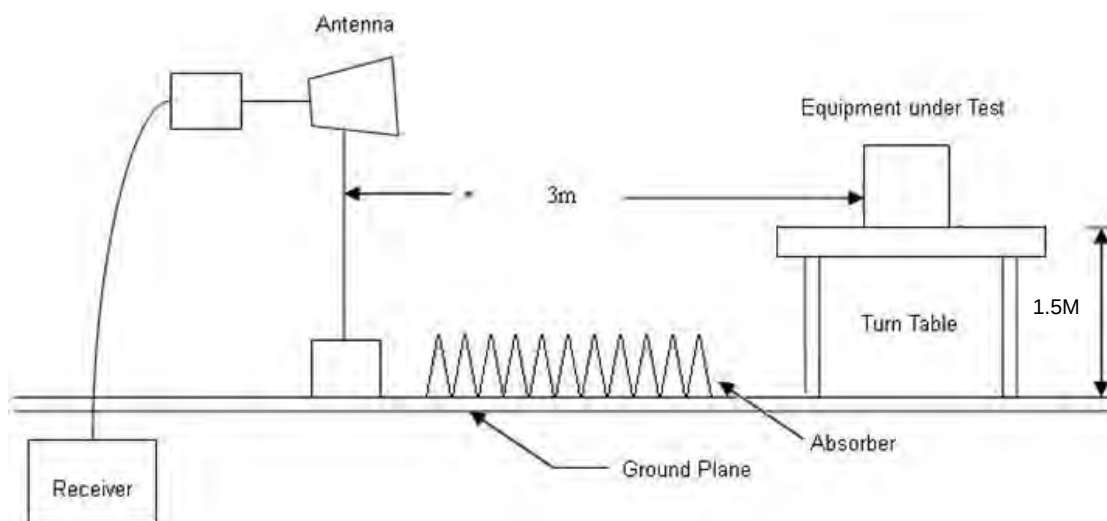
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



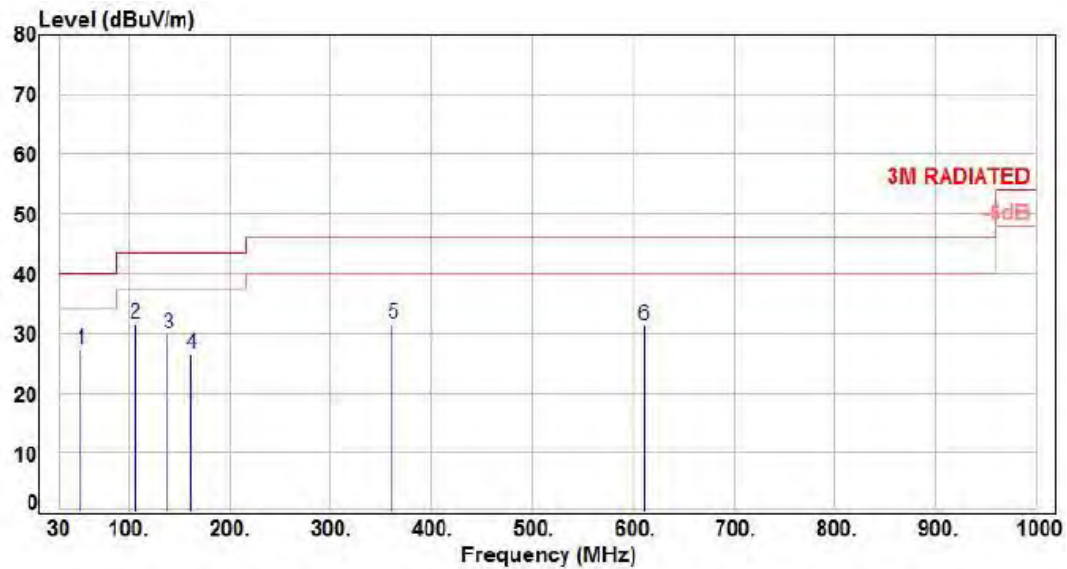


6.4. Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5. Test Result and Data (30MHz ~ 1GHz)

Power	:	From Adapter (AC 120V/60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	52.31	-16.55	43.77	27.22	40.00	-12.78	Peak	100	30	P
2	106.63	-10.33	42.06	31.73	43.50	-11.77	Peak	100	25	P
3	138.64	-8.73	38.63	29.90	43.50	-13.60	Peak	100	1	P
4	161.92	-10.35	36.92	26.57	43.50	-16.93	Peak	100	0	P
5	361.74	-7.01	38.55	31.54	46.00	-14.46	Peak	100	40	P
6	611.03	-1.96	33.31	31.35	46.00	-14.65	Peak	100	17	P

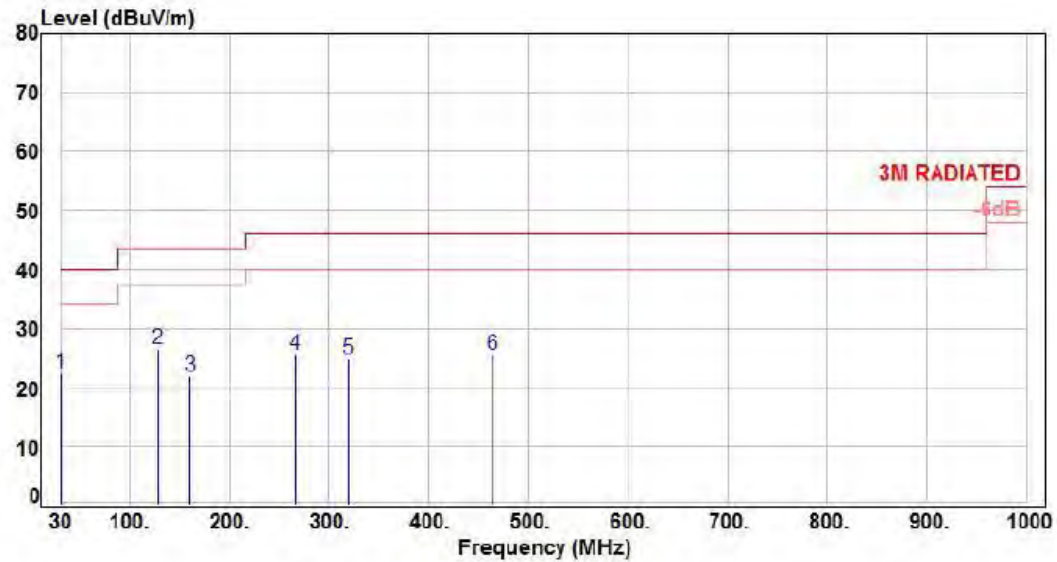
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	From Adapter (AC 120V/60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1, CH157		:	



No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-3.06	25.47	22.41	40.00	-17.59	Peak	100	168	P
2	127.97	-8.47	35.02	26.55	43.50	-16.95	Peak	100	338	P
3	159.98	-10.26	32.10	21.84	43.50	-21.66	Peak	100	78	P
4	265.71	-8.88	34.45	25.57	46.00	-20.43	Peak	100	37	P
5	319.06	-7.88	32.65	24.77	46.00	-21.23	Peak	100	113	P
6	464.56	-3.92	29.45	25.53	46.00	-20.47	Peak	100	203	P

Note: Level=Reading+Factor

Margin=Level-Limit

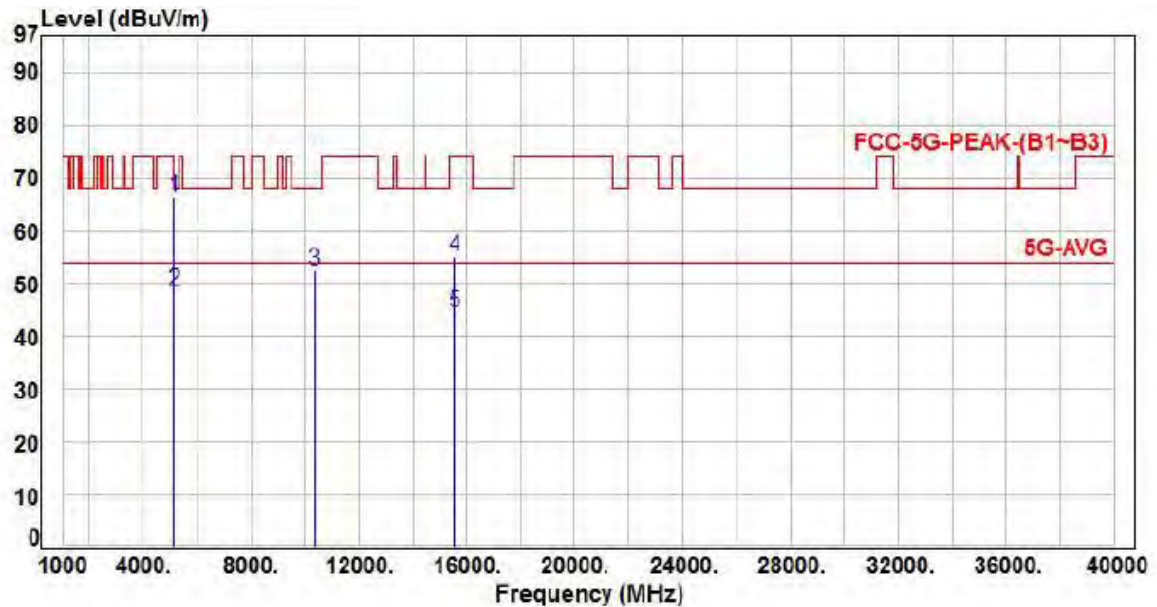
Factor=Antenna Factor + cable loss - Amplifier Factor



6.6. Test Result and Data (1GHz ~ 40GHz)

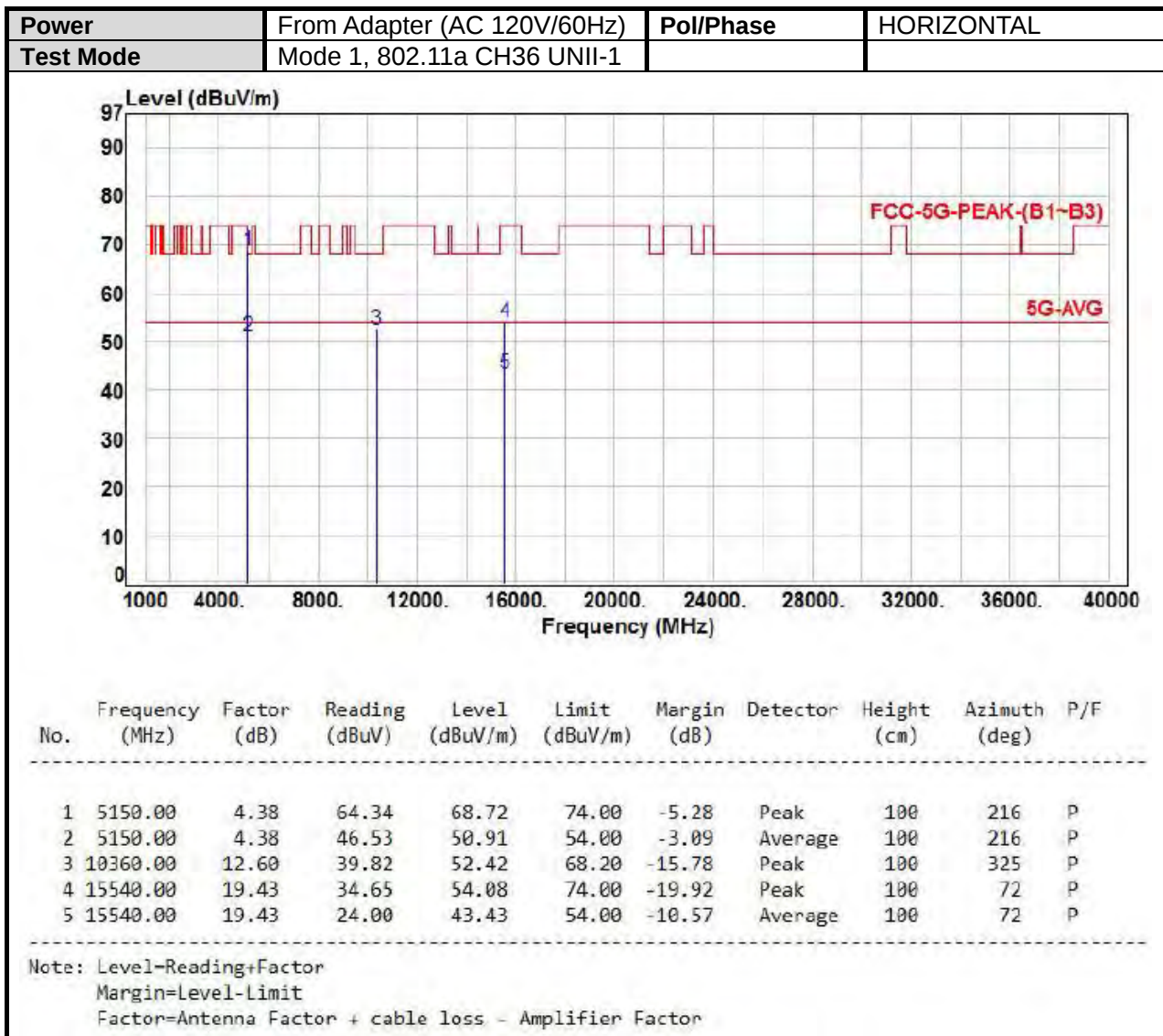
UNII-1

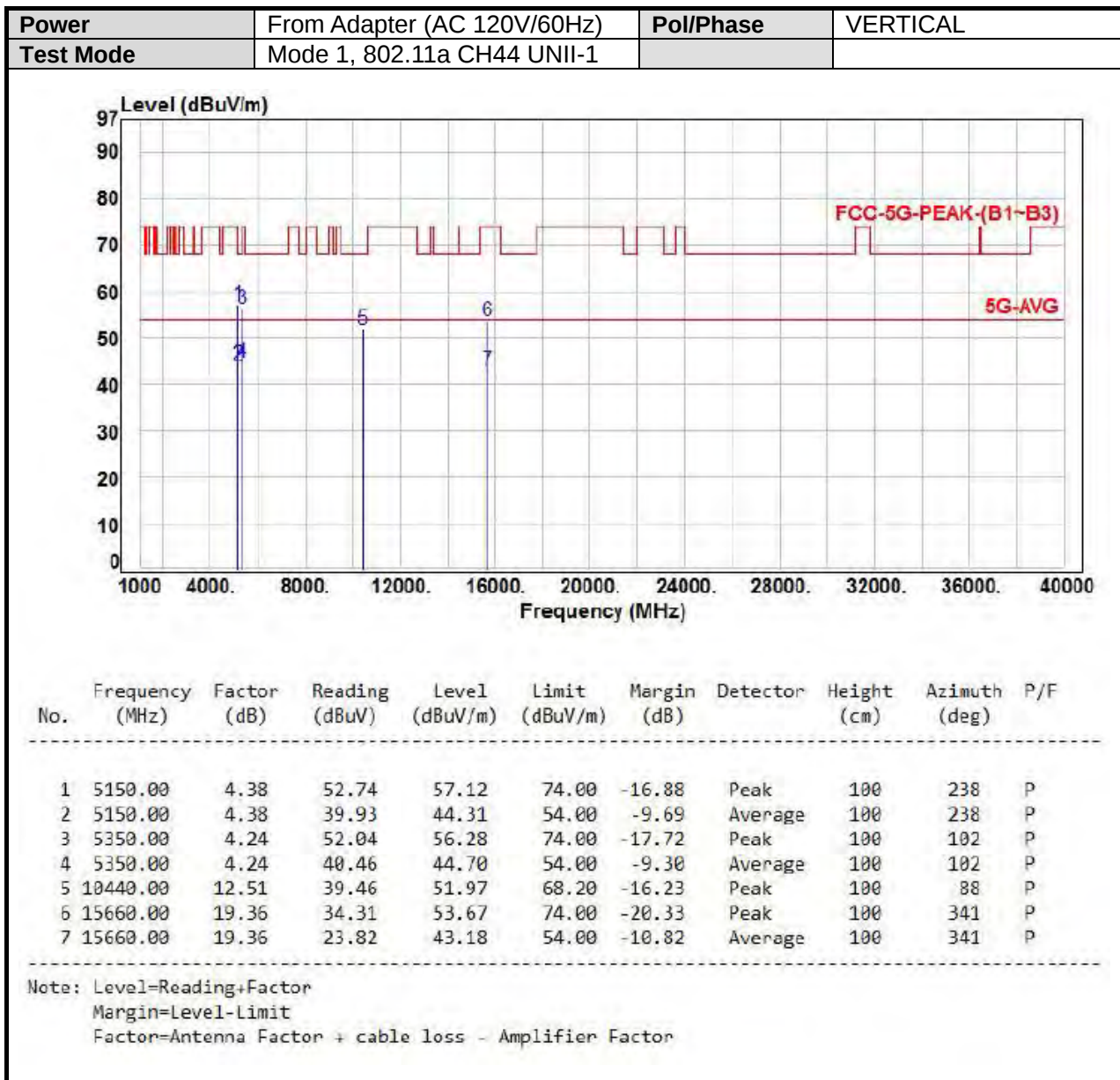
Power	From Adapter (AC 120V/60Hz)	Pol/Phase	VERTICAL
Test Mode	Mode 1, 802.11a CH36 UNII-1		

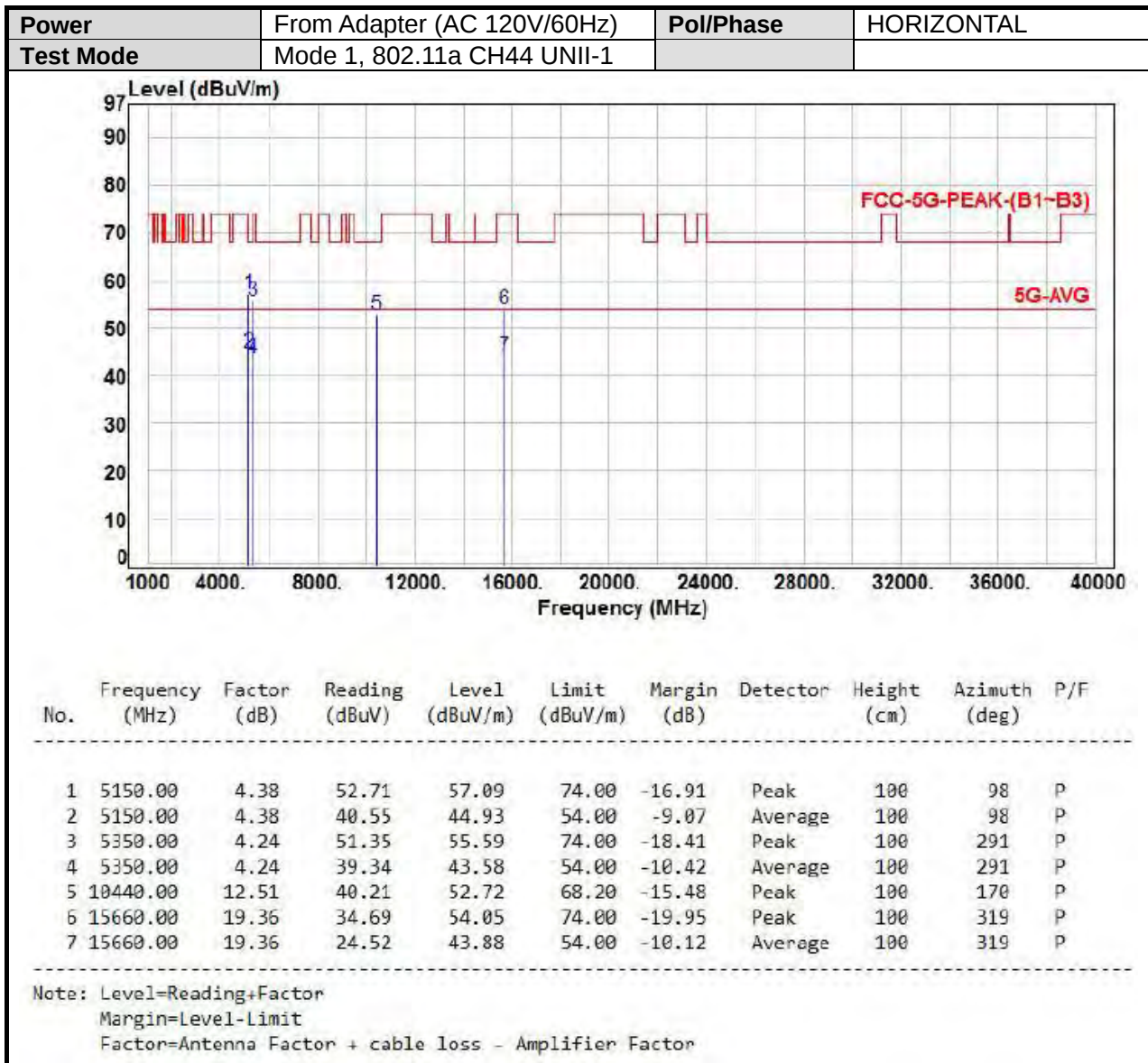


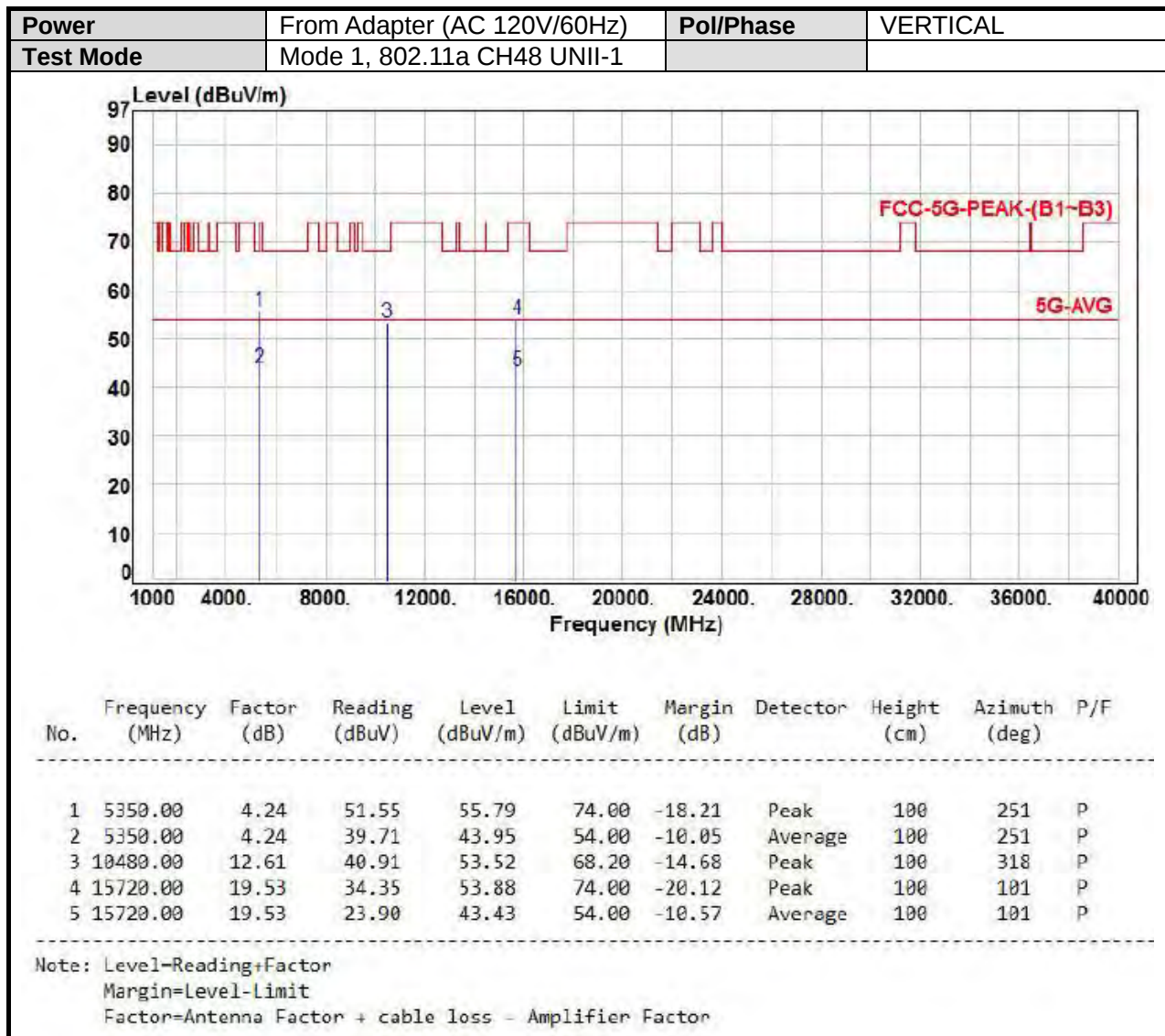
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5150.00	4.38	61.90	66.28	74.00	-7.72	Peak	100	83	P
2	5150.00	4.38	44.41	48.79	54.00	-5.21	Average	100	83	P
3	10360.00	12.60	40.00	52.60	68.20	-15.60	Peak	100	120	P
4	15540.00	19.43	35.66	55.09	74.00	-18.91	Peak	100	349	P
5	15540.00	19.43	24.98	44.41	54.00	-9.59	Average	100	349	P

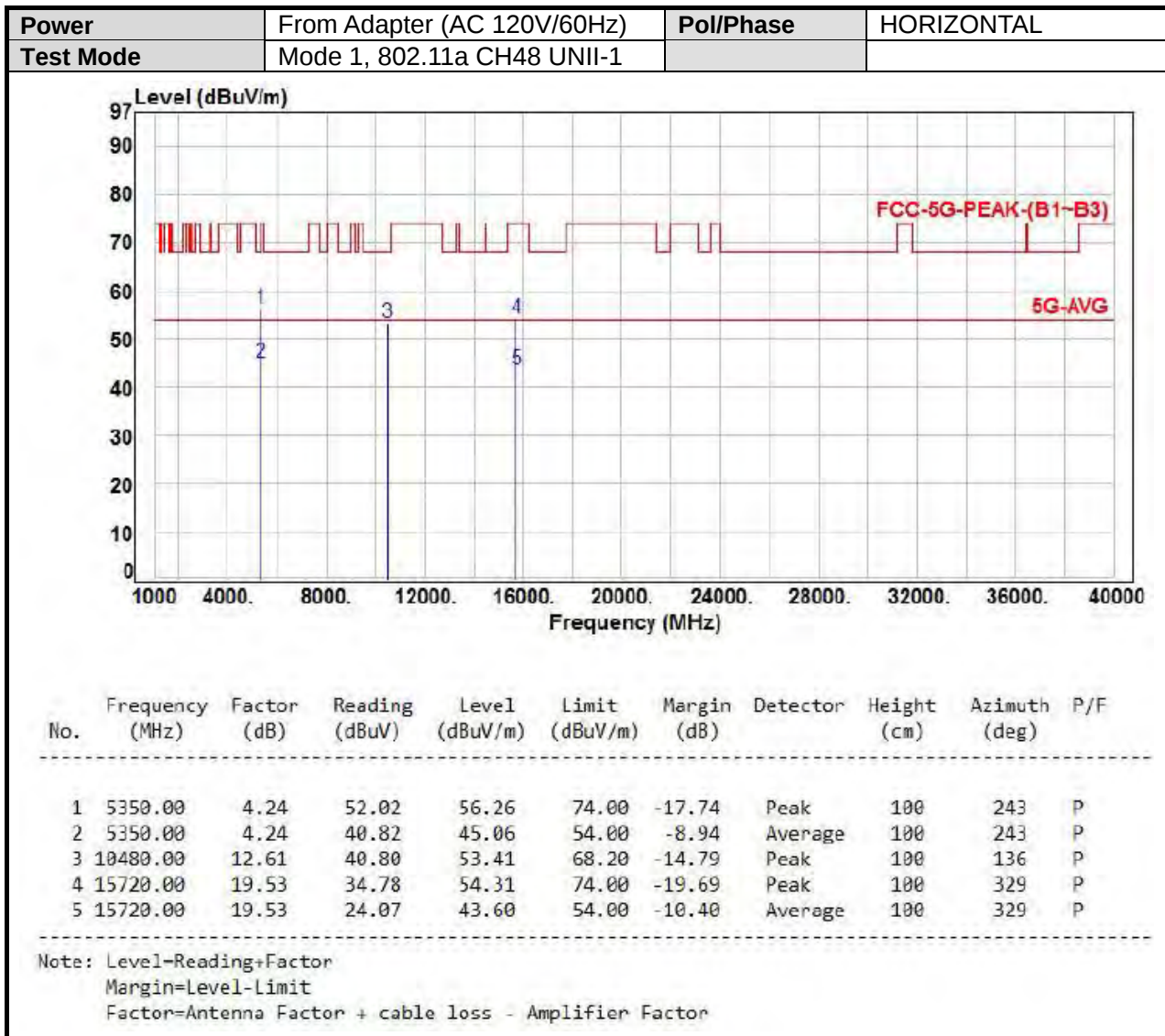
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

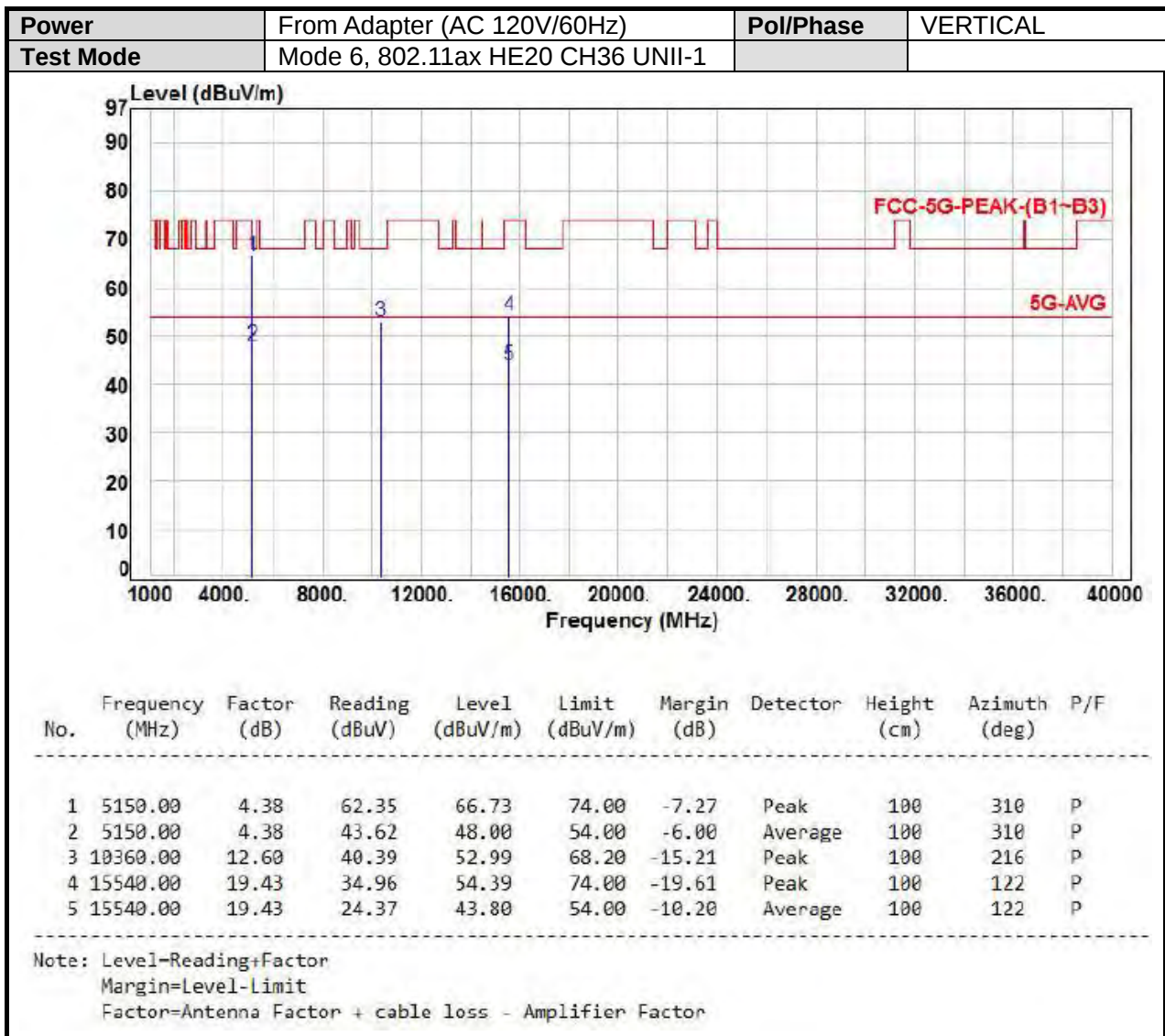


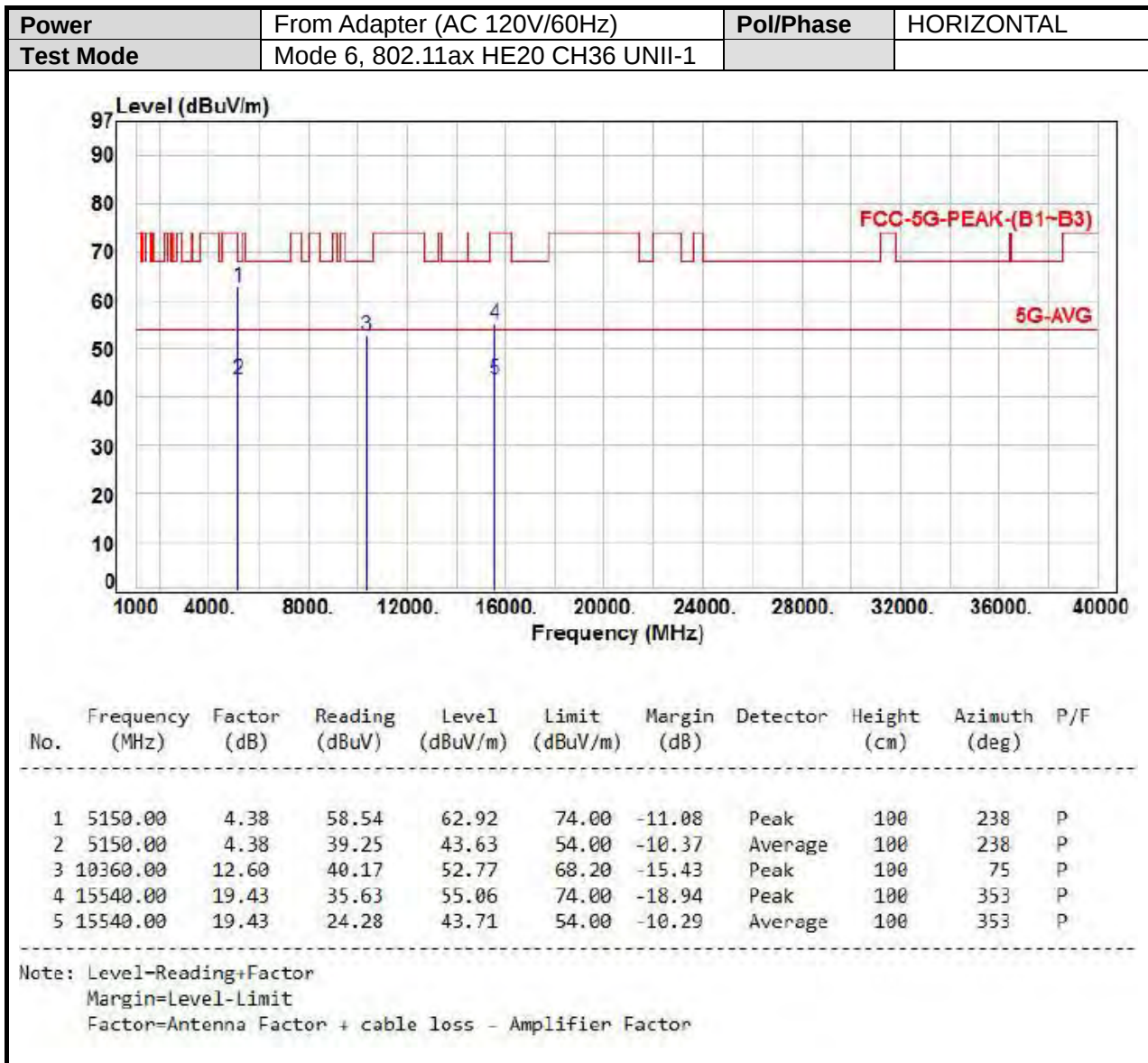


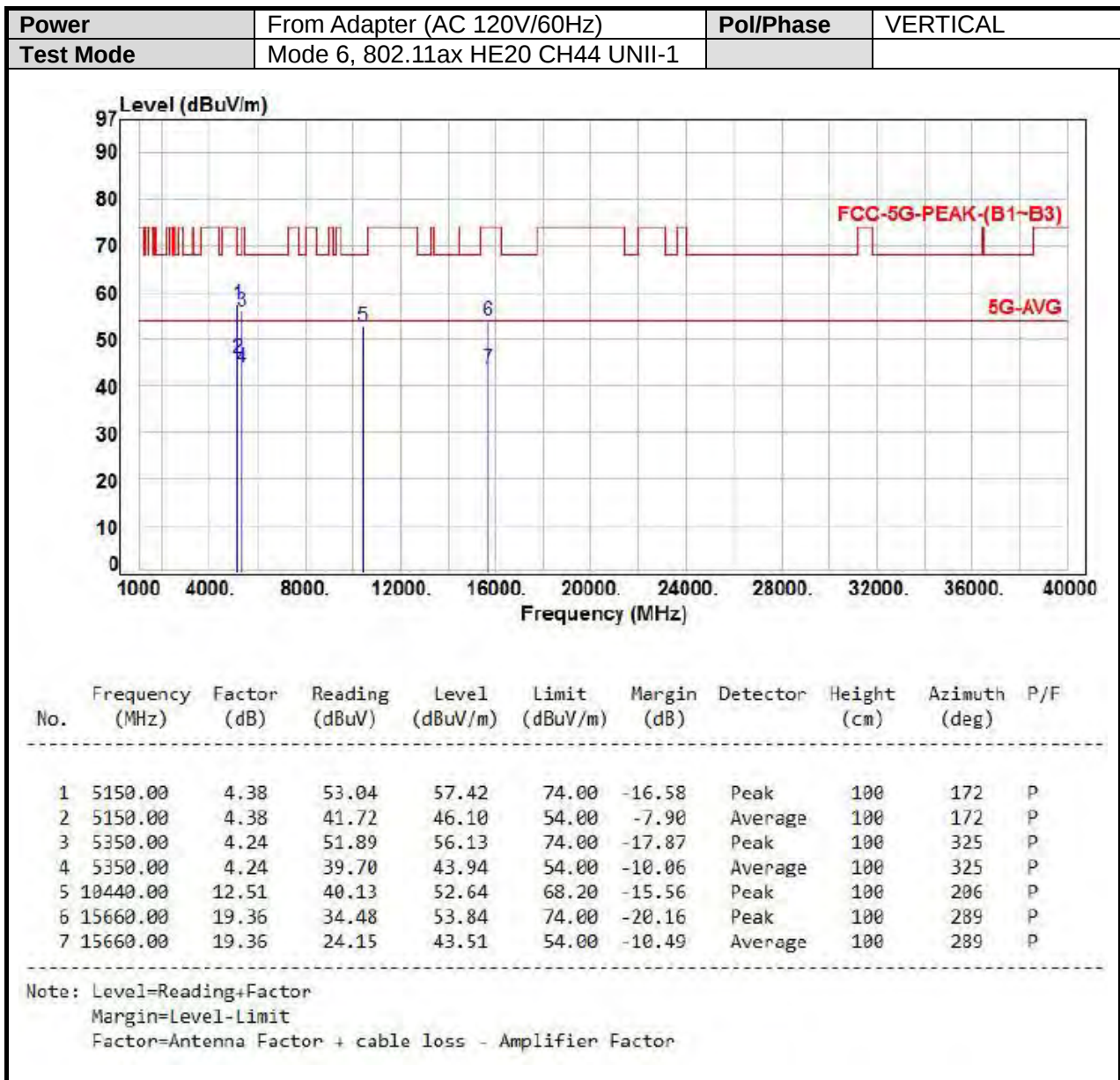


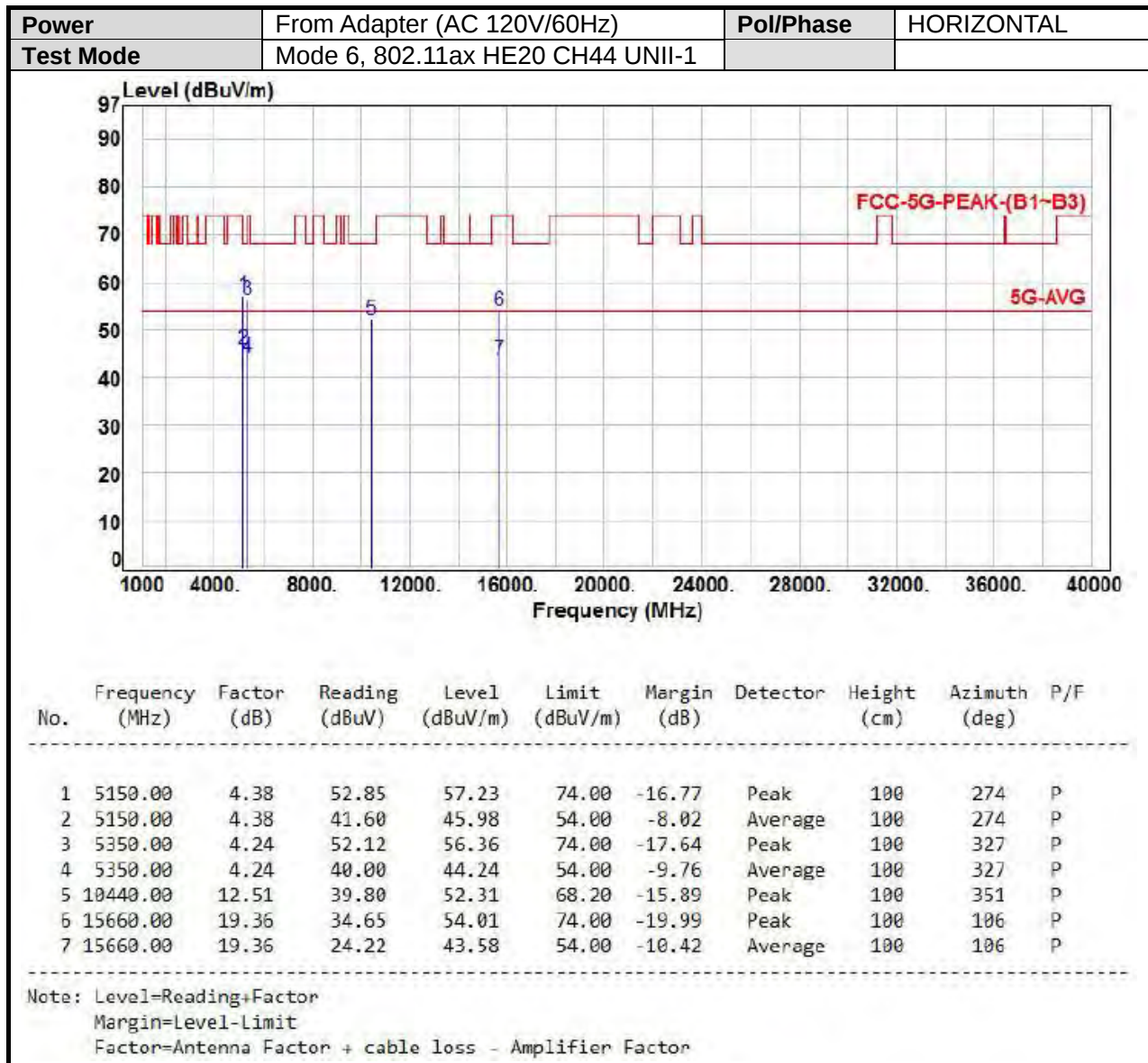


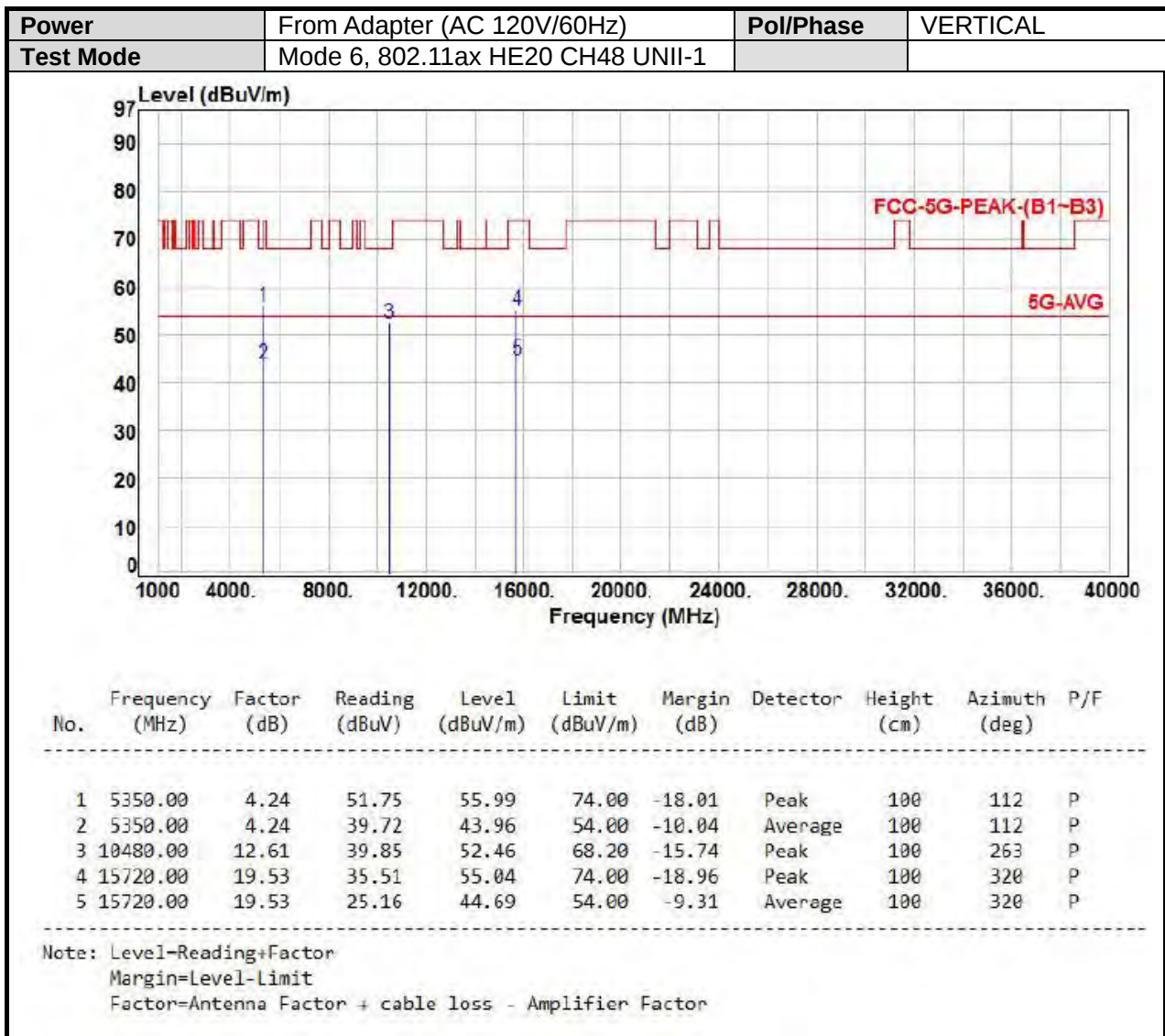


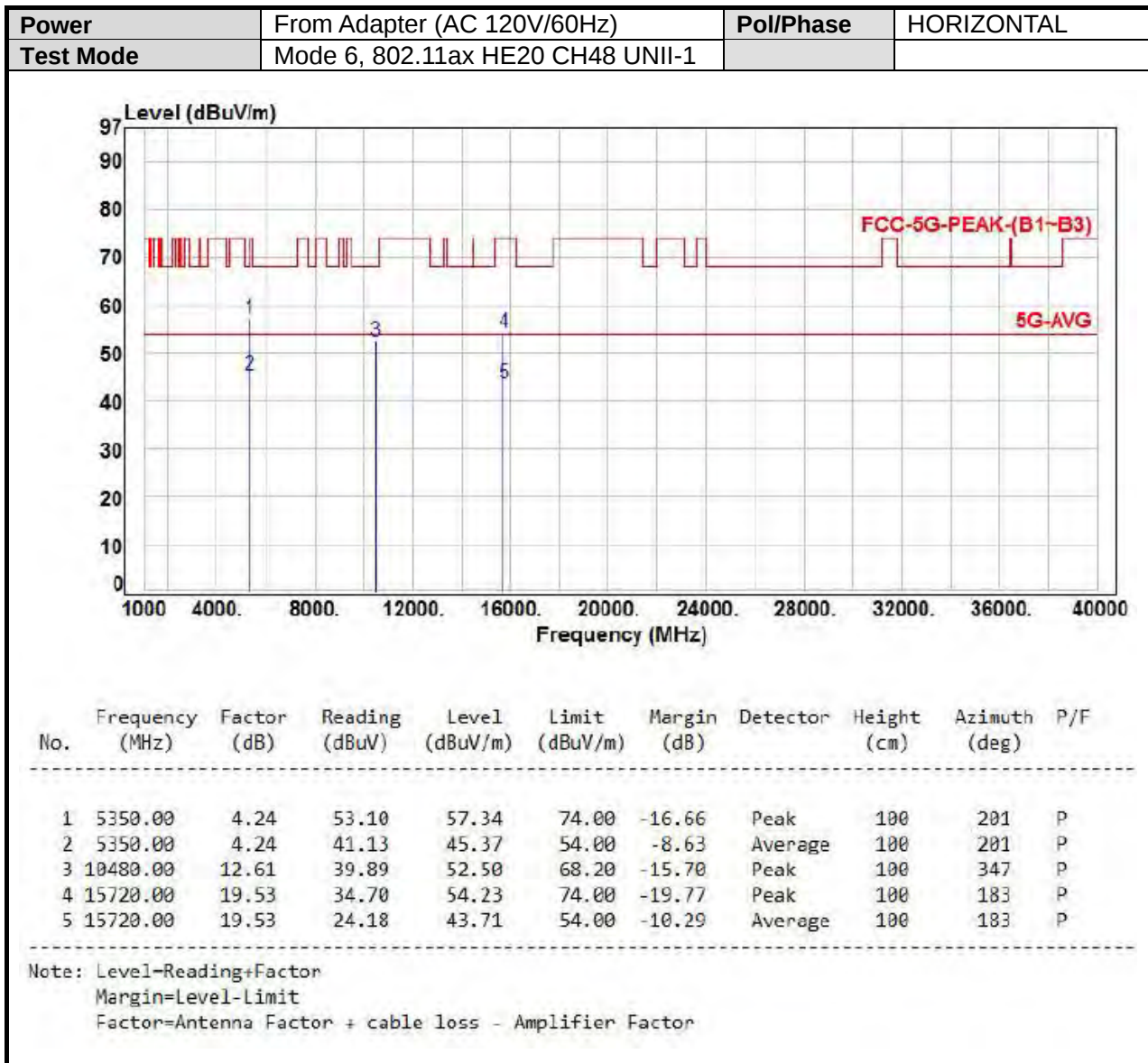


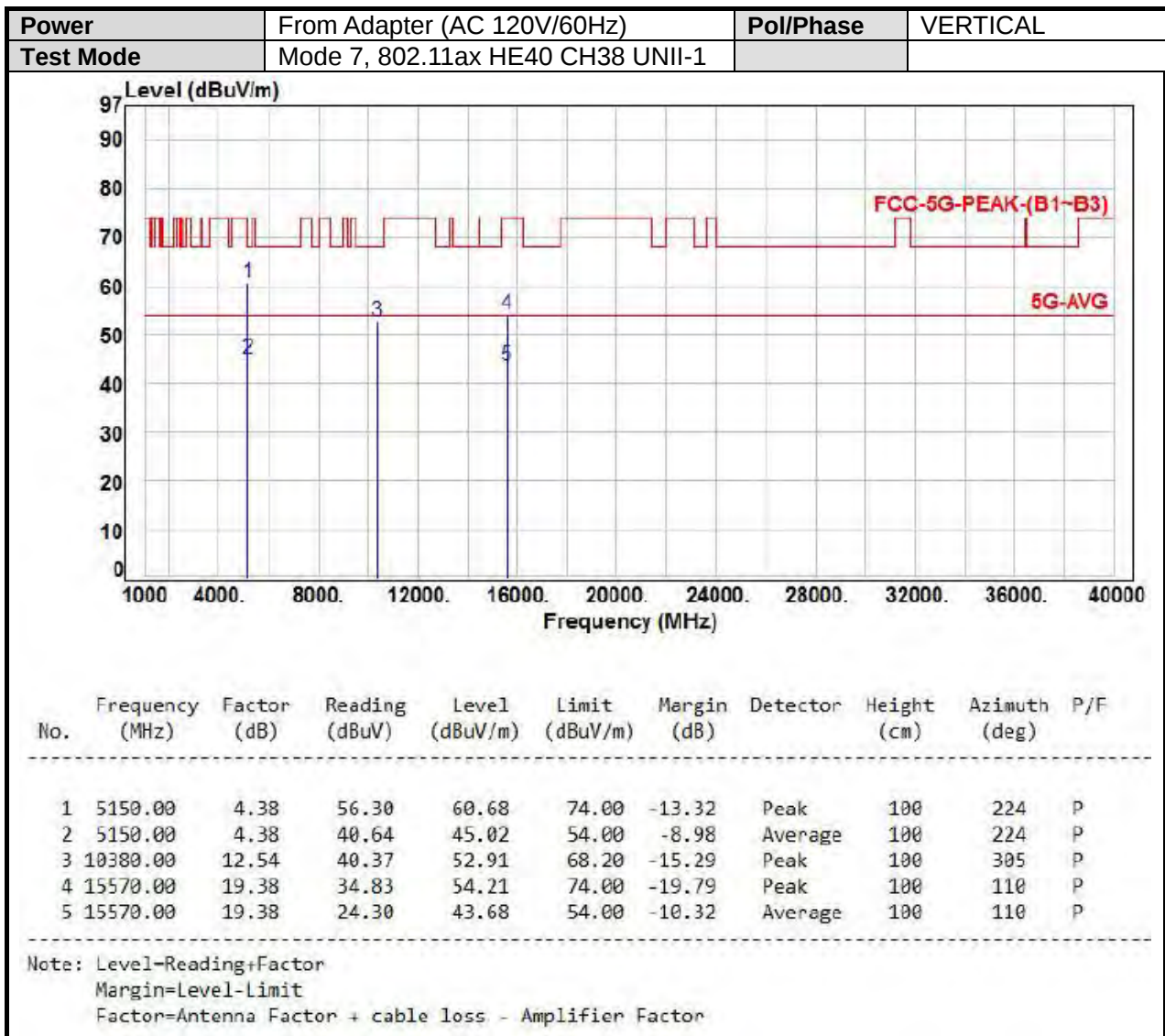


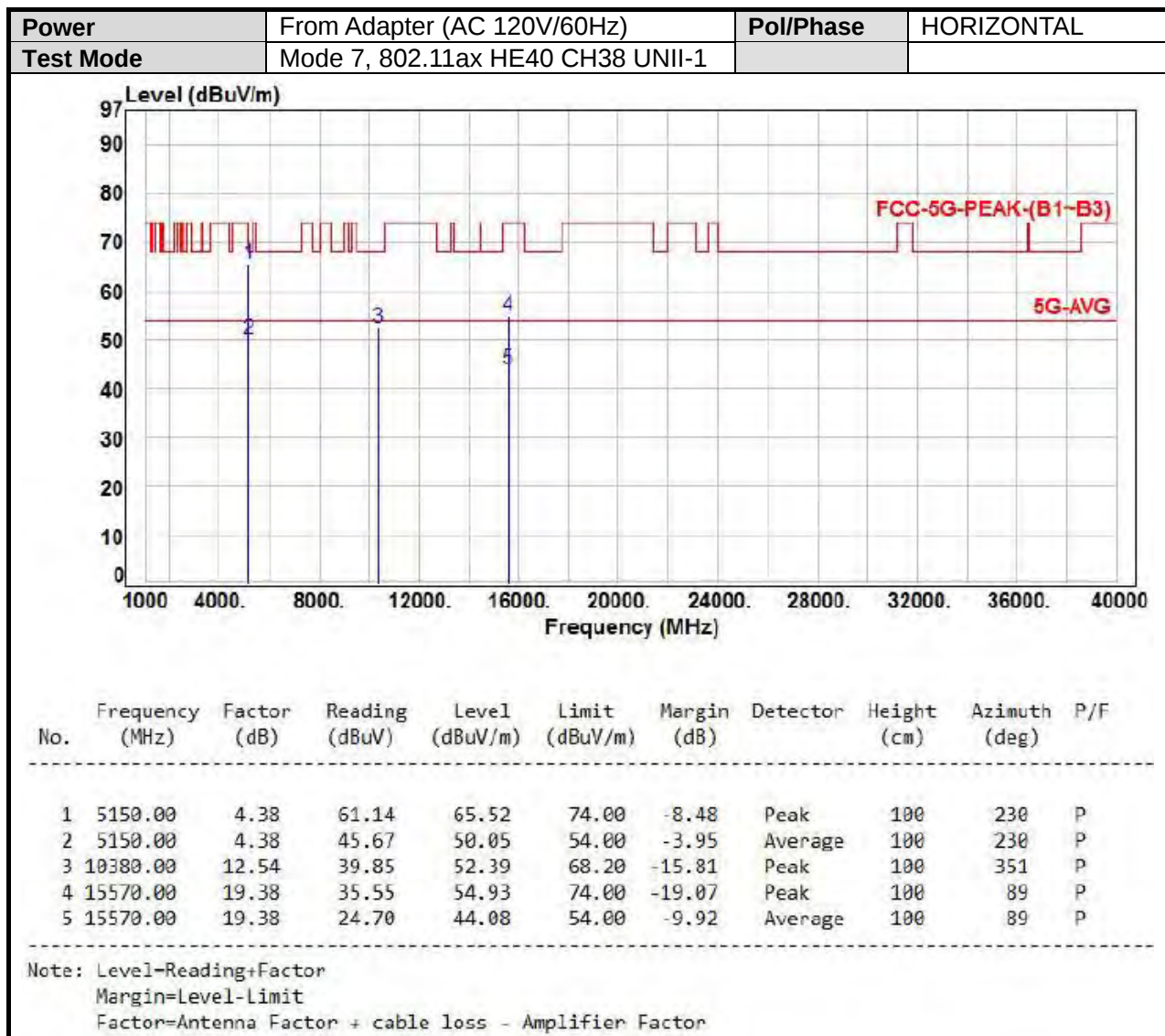


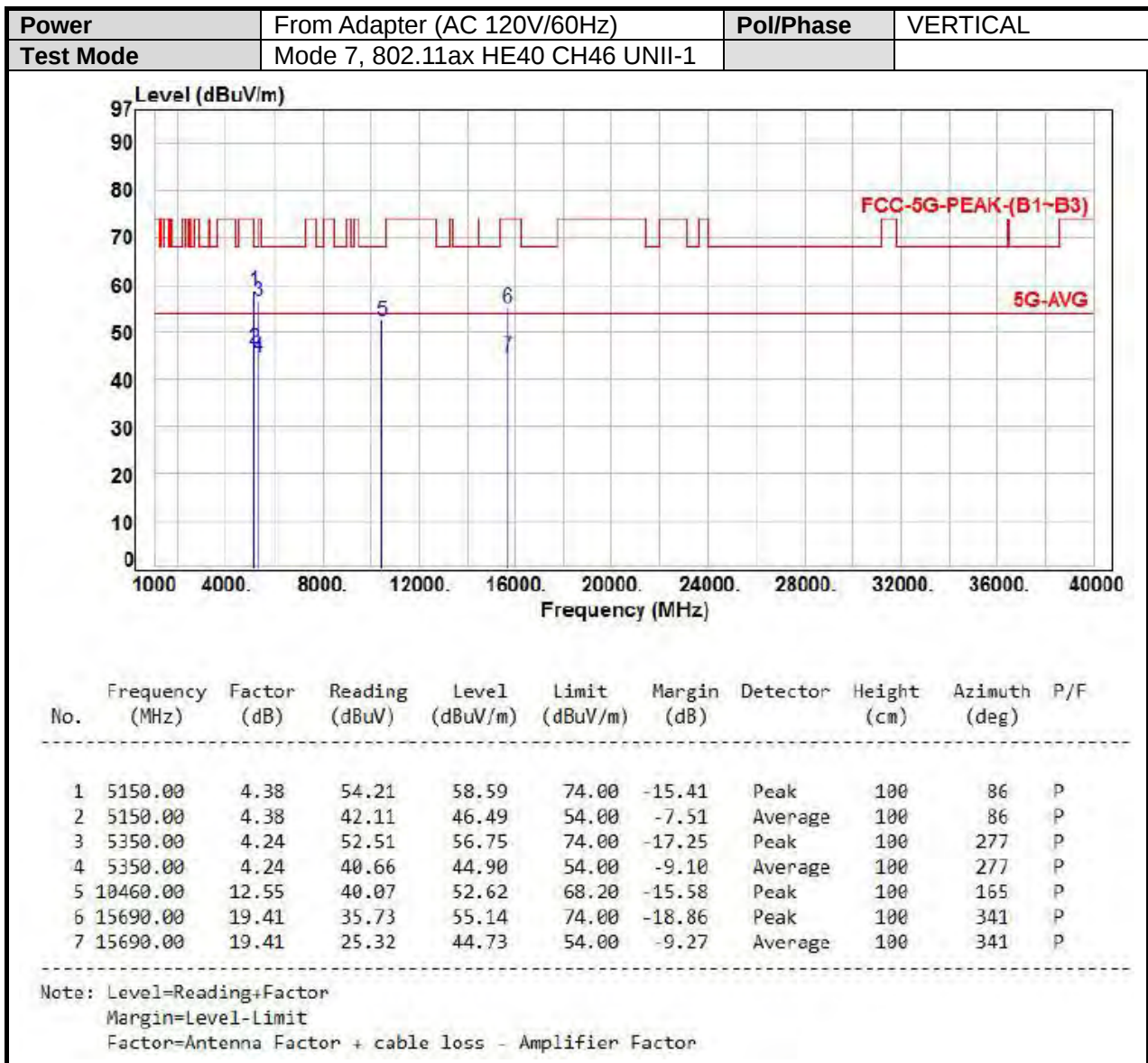


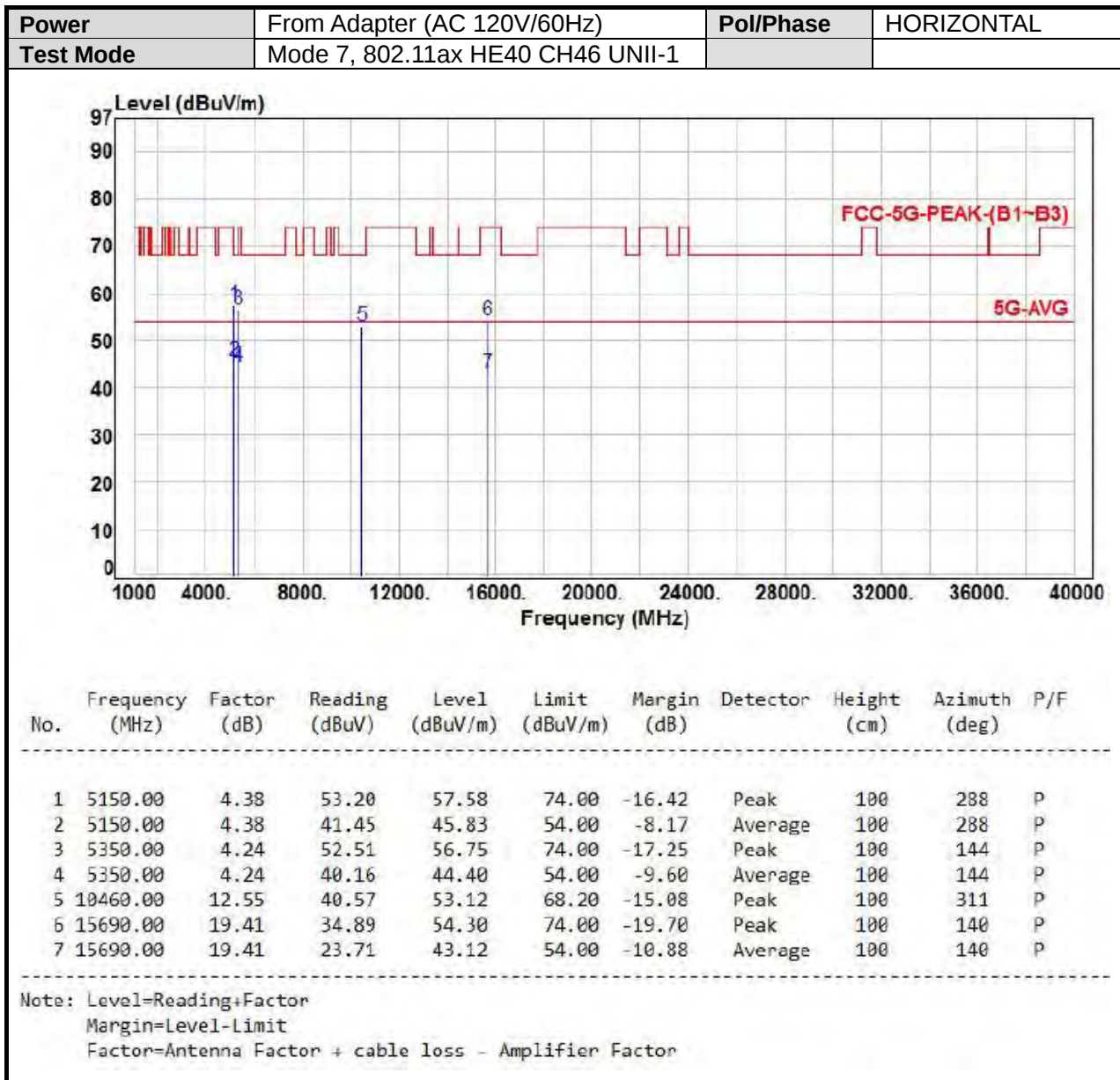






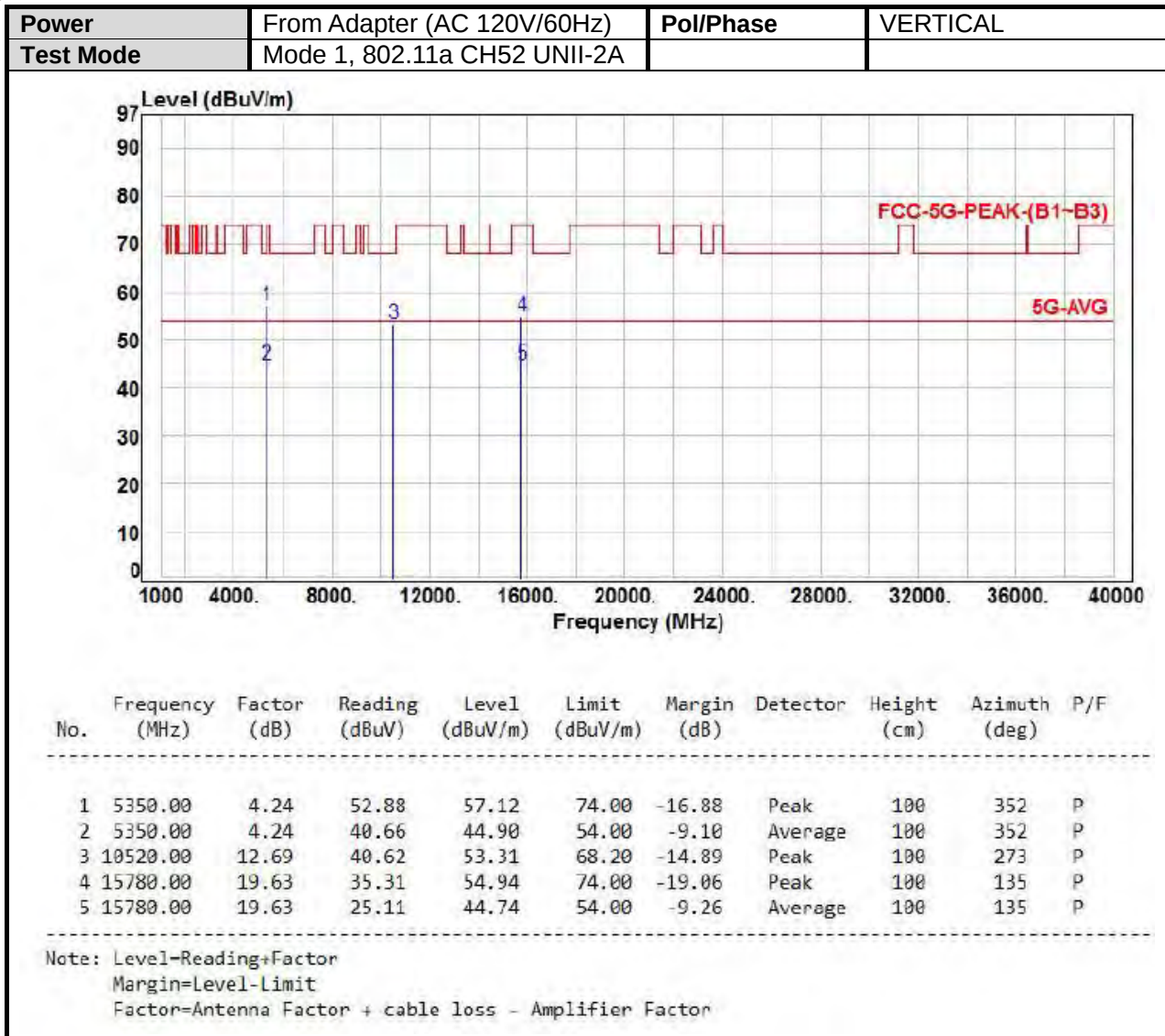


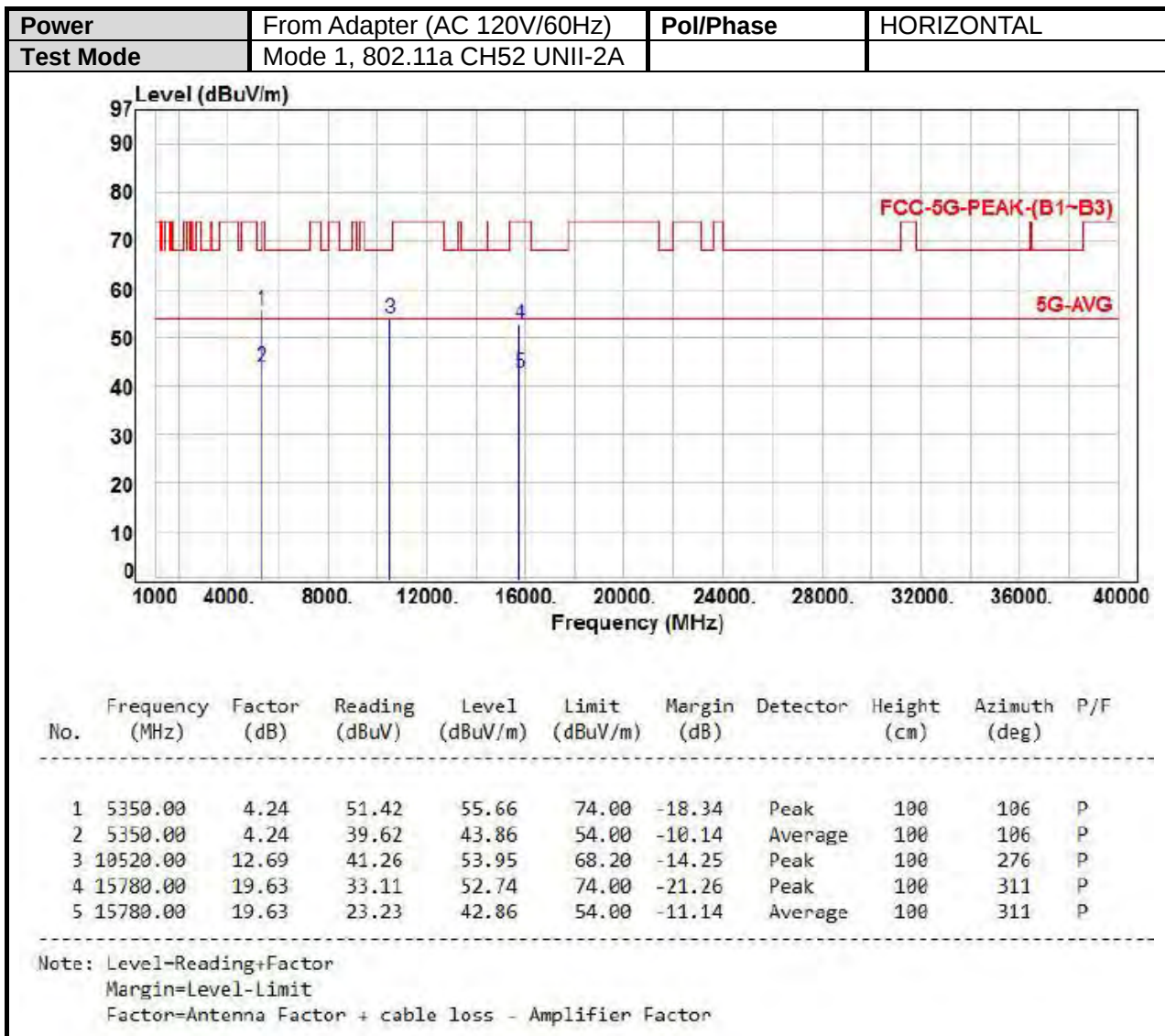


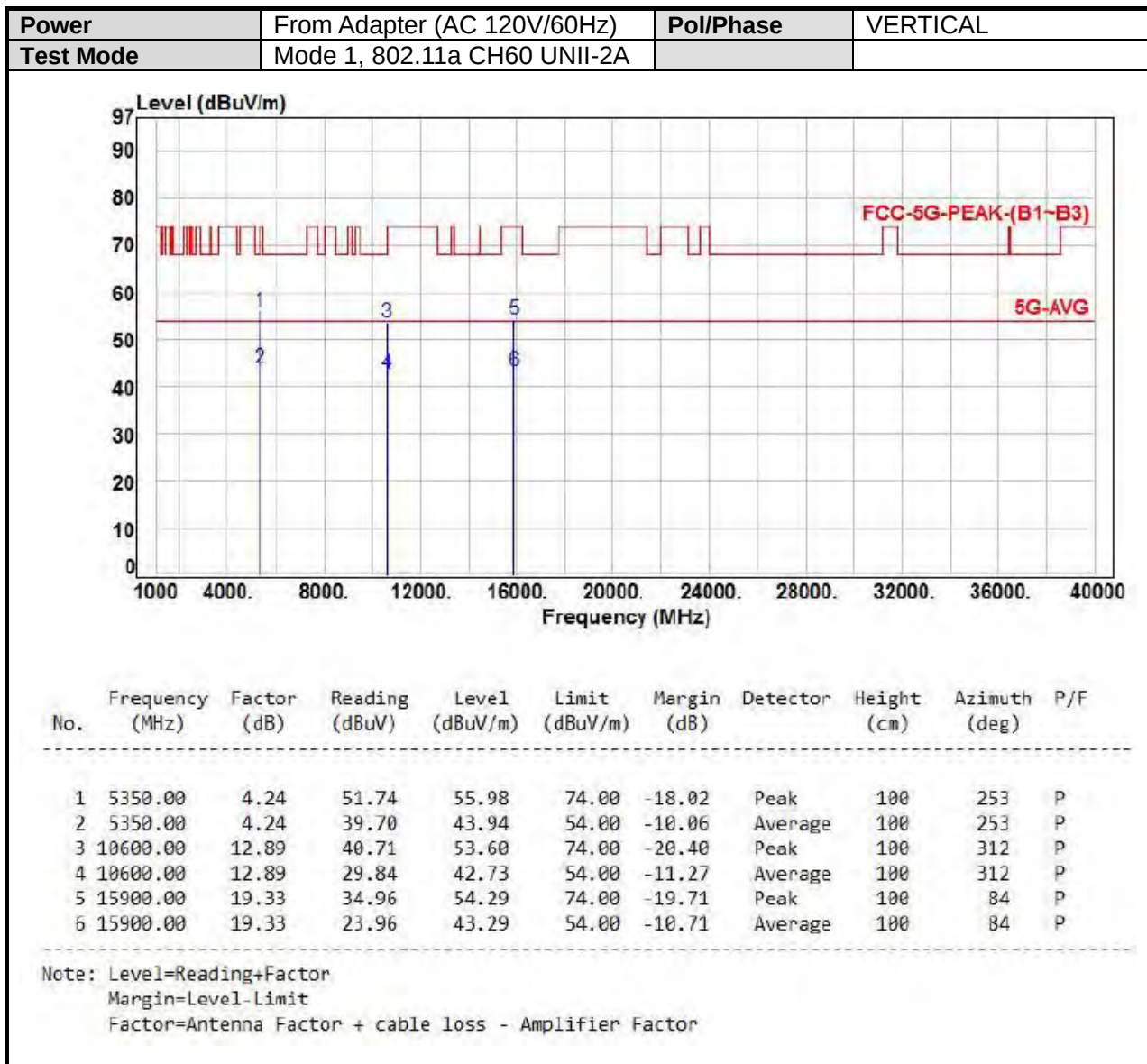


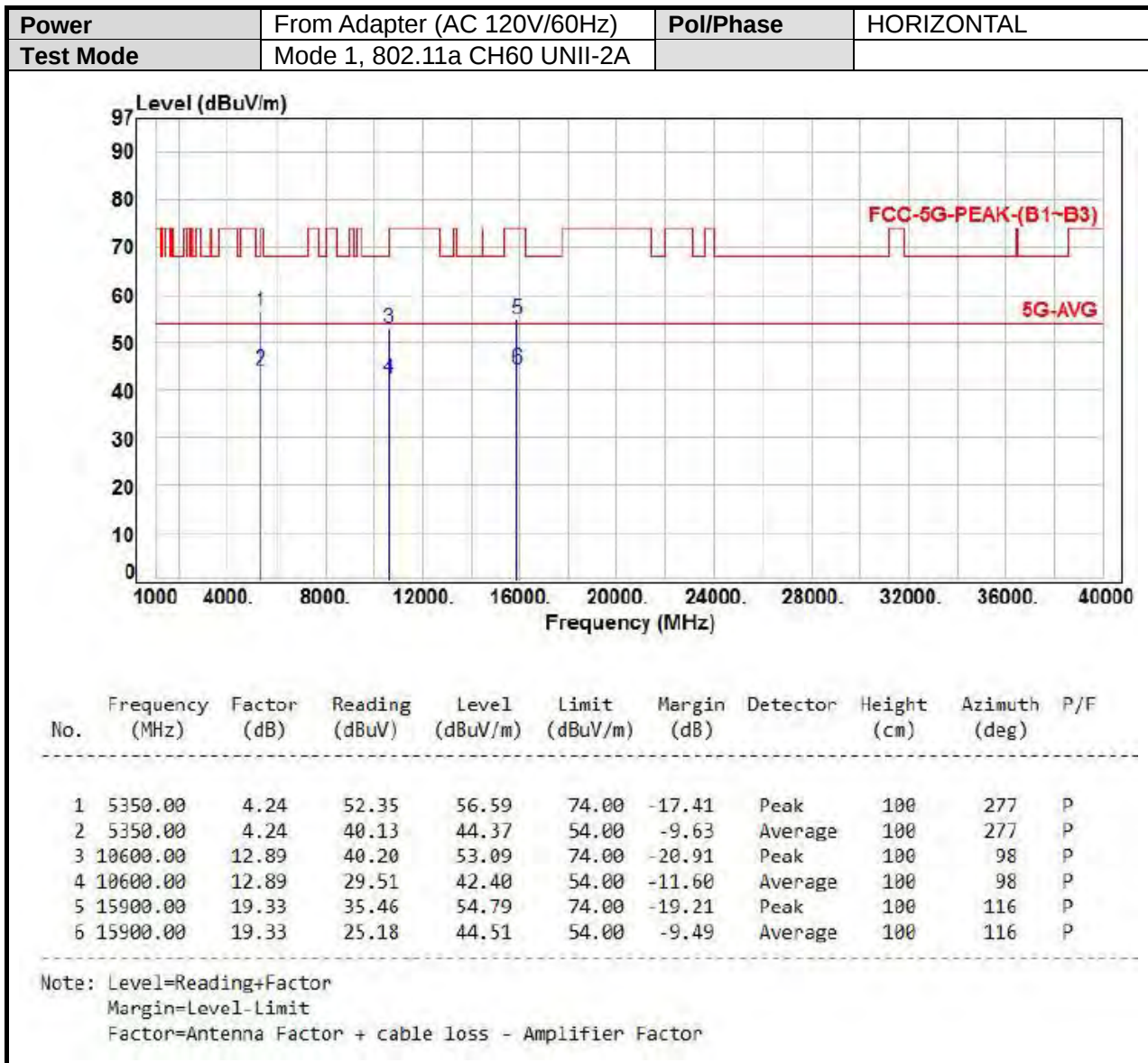


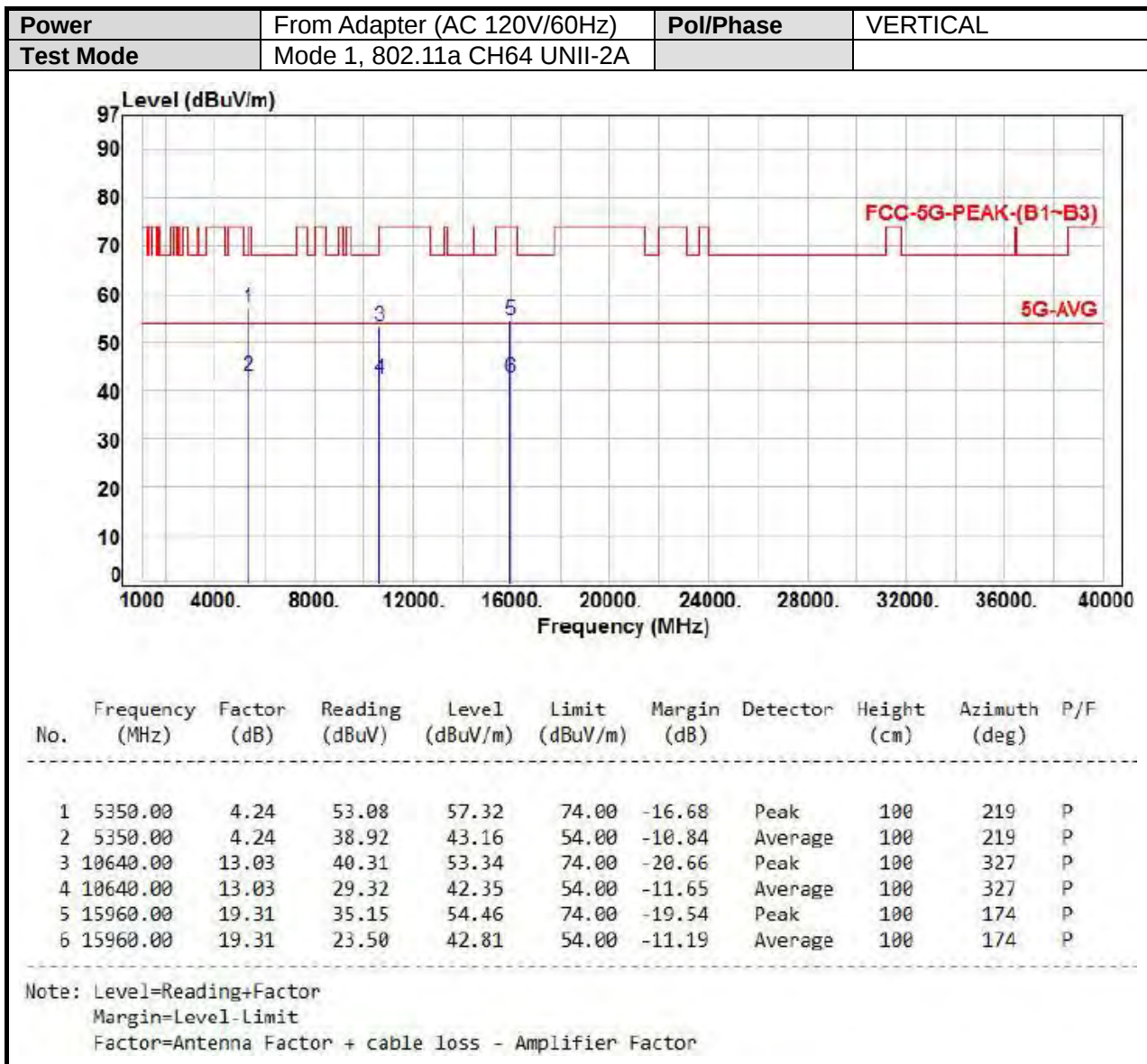
UNII-2A

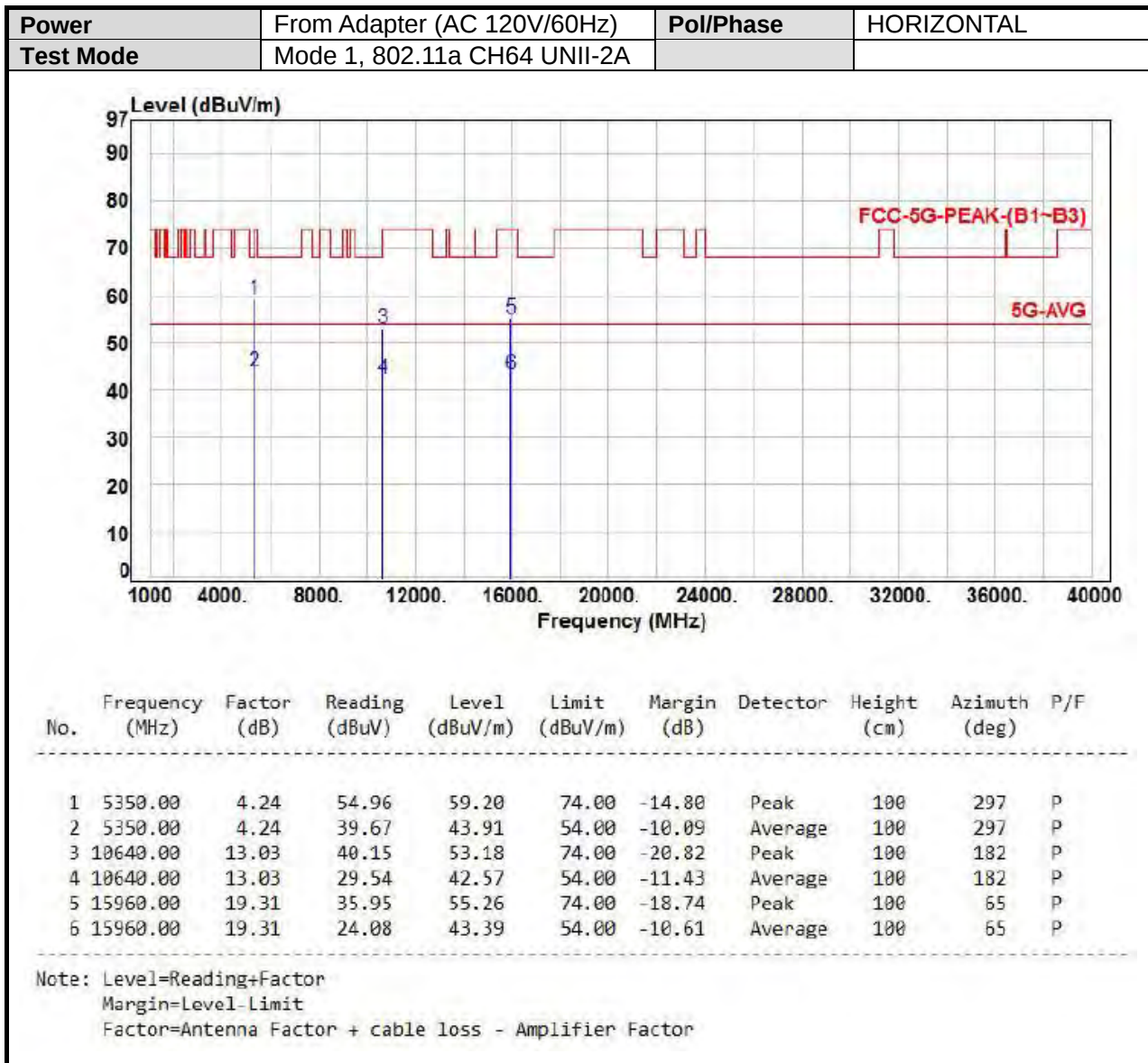


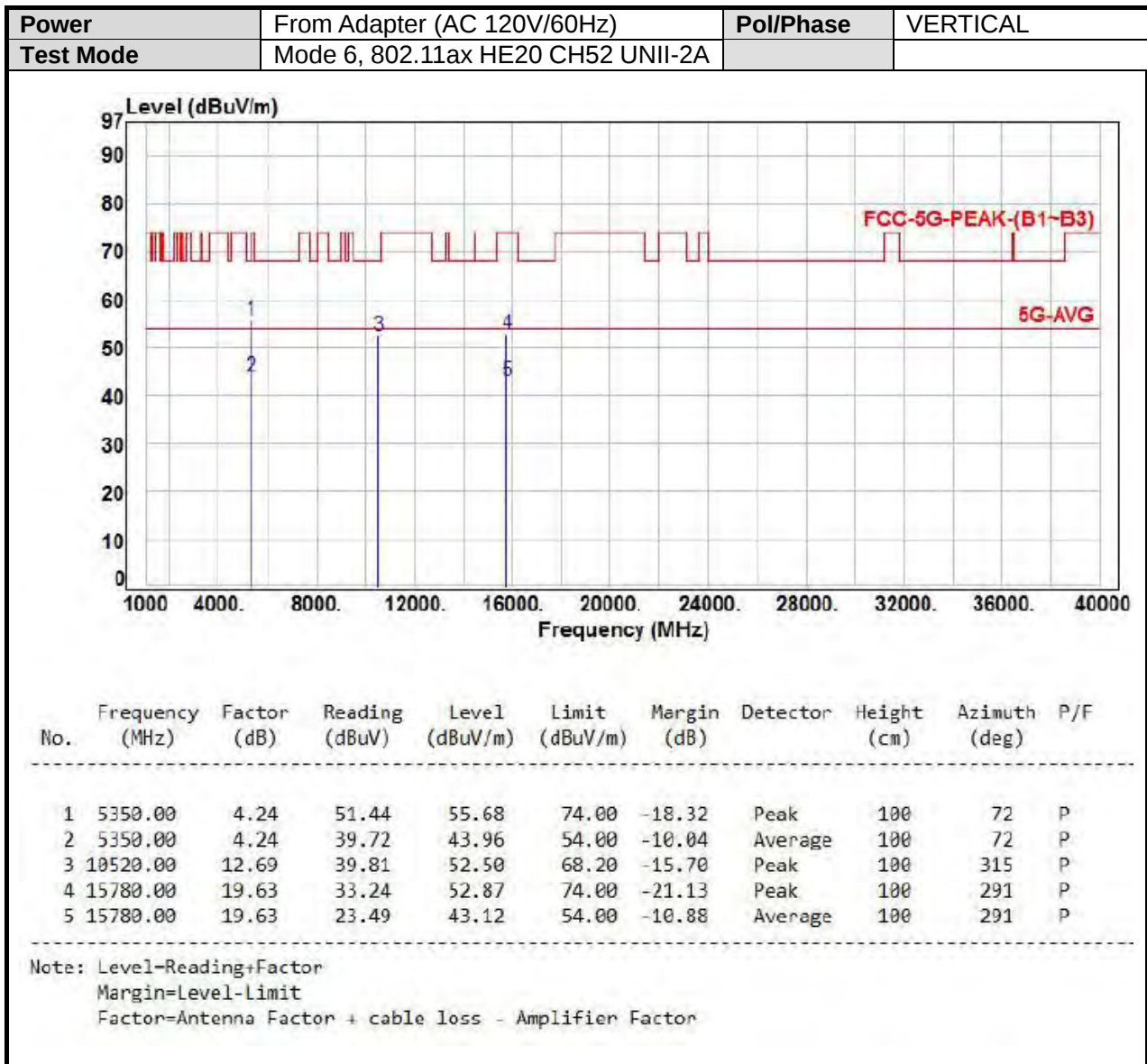


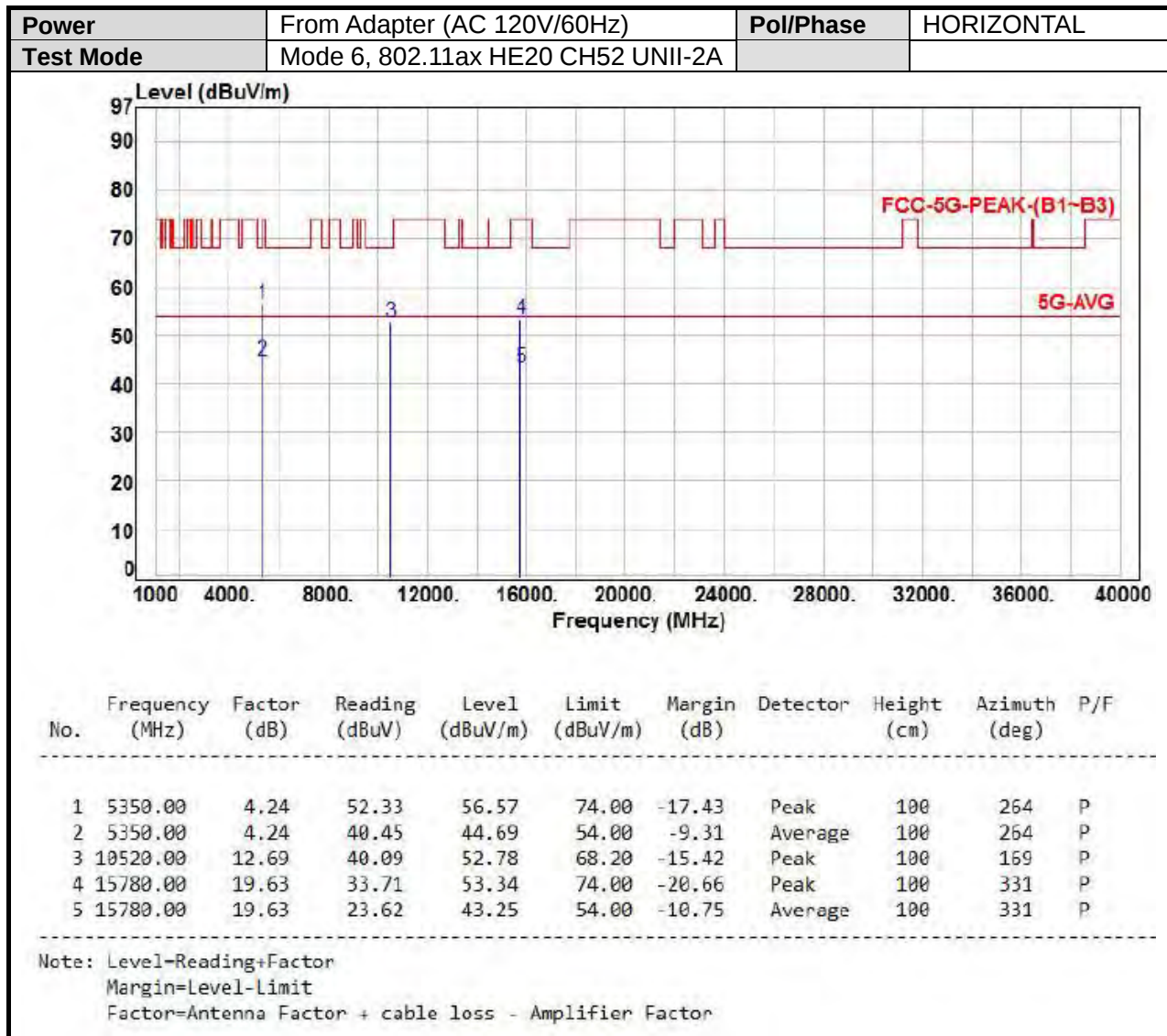


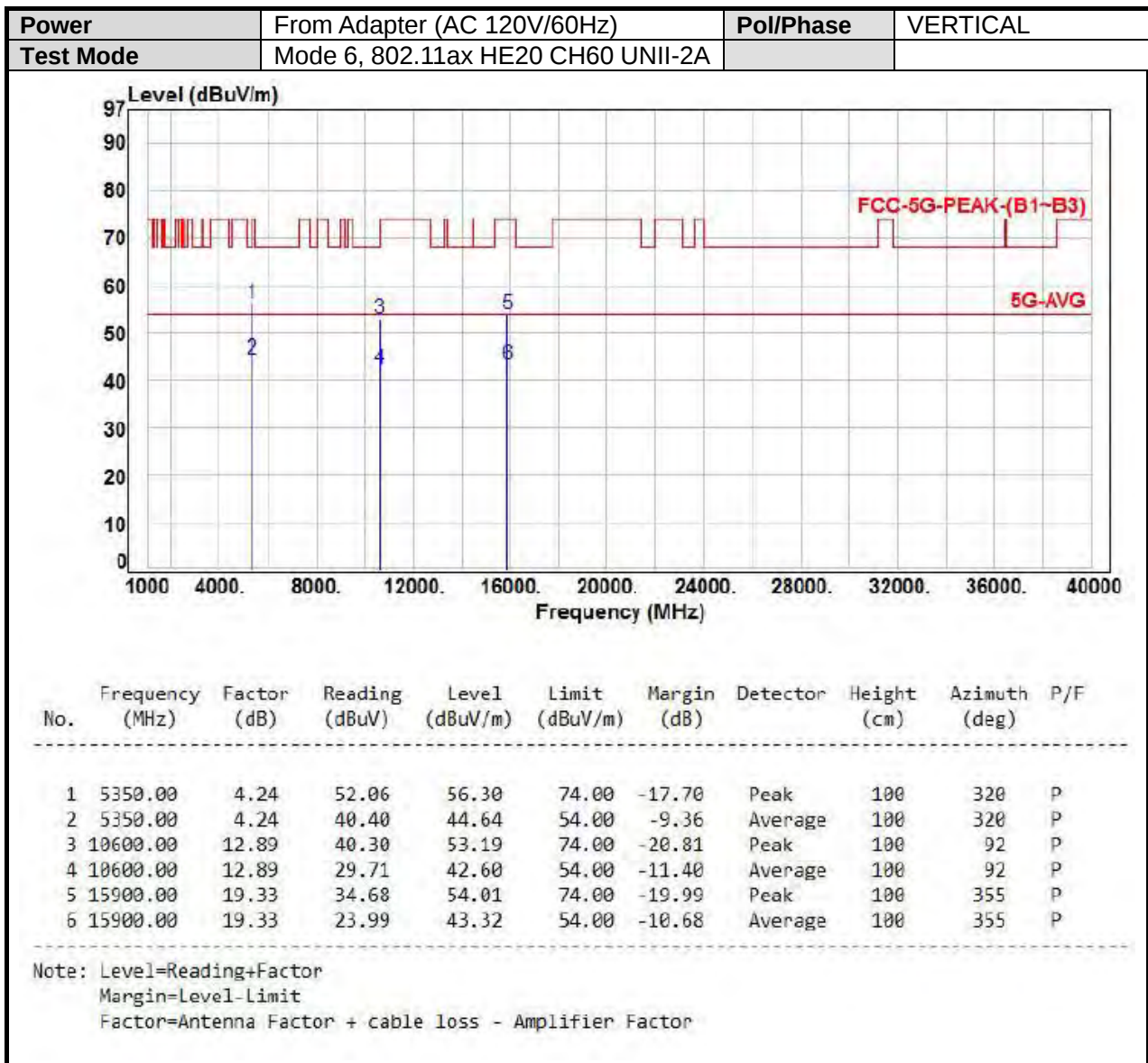


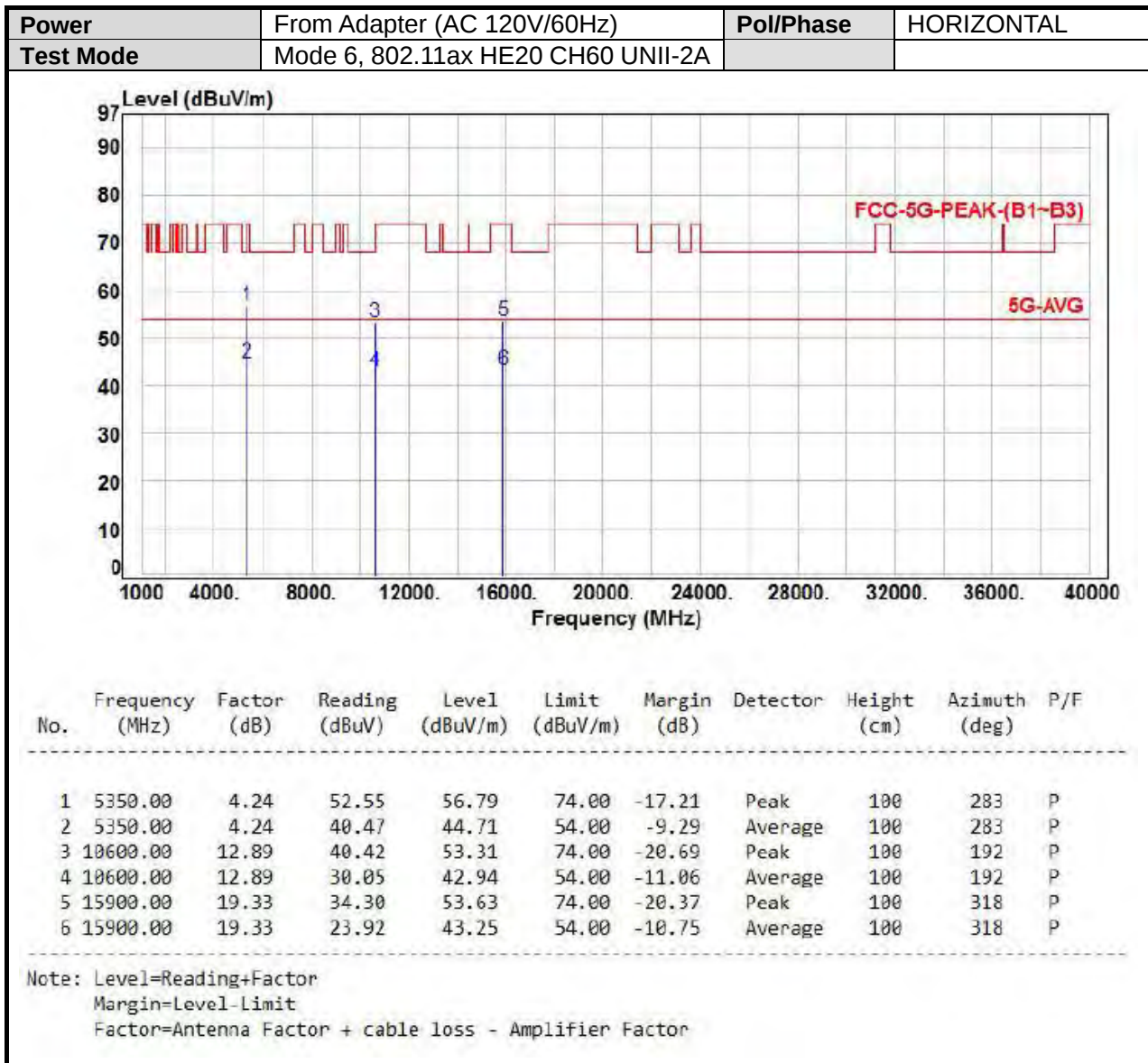


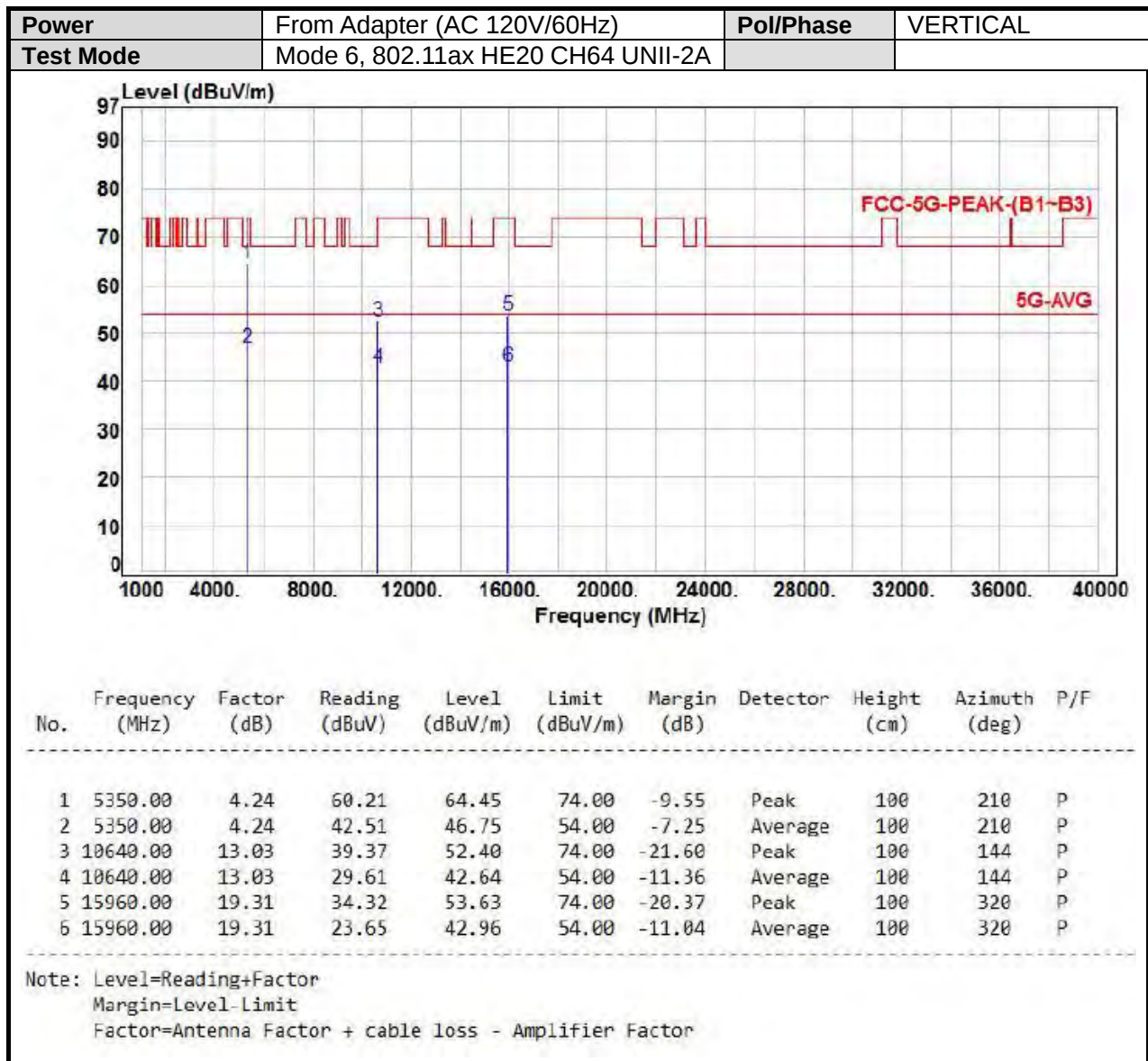


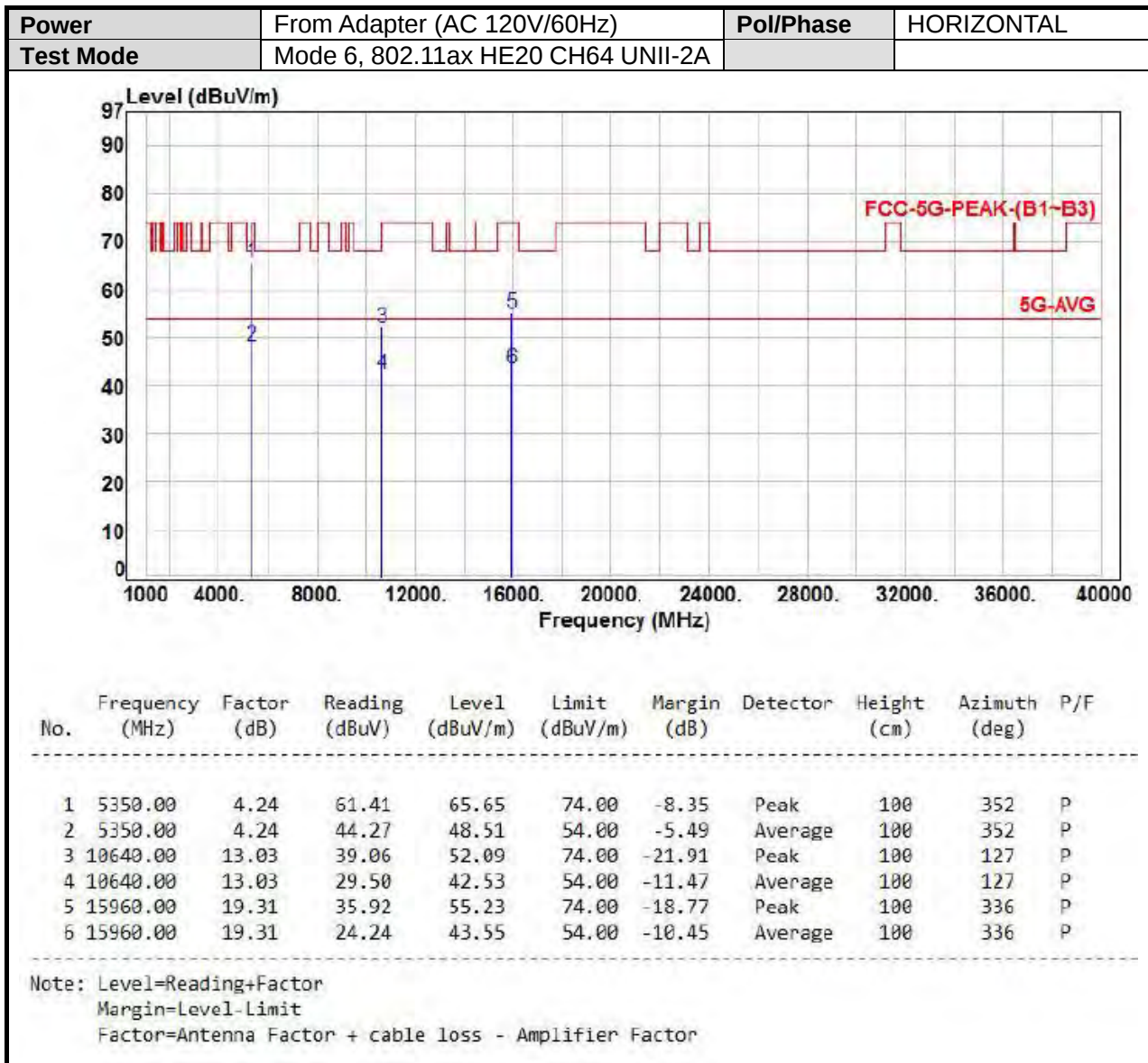


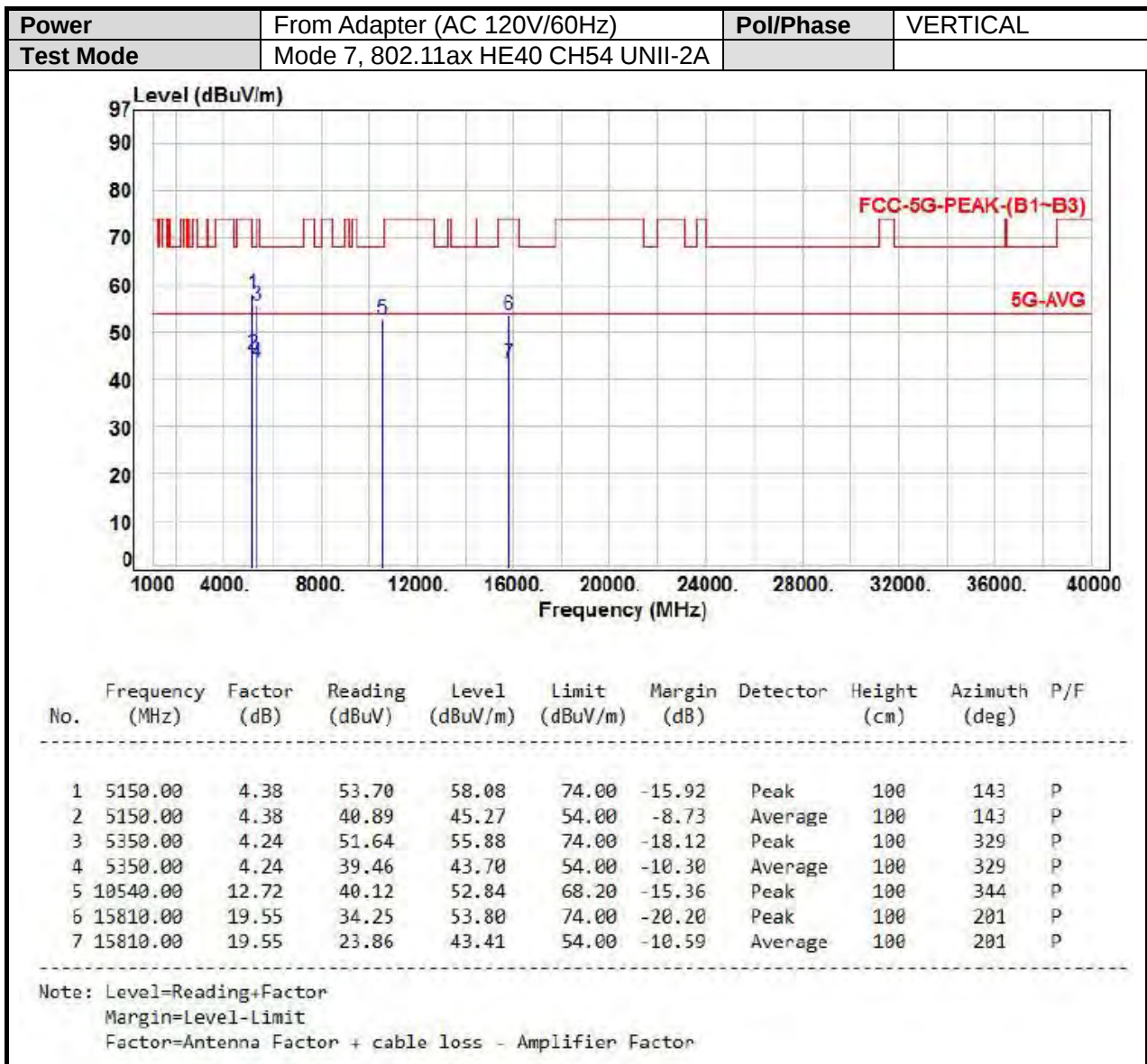


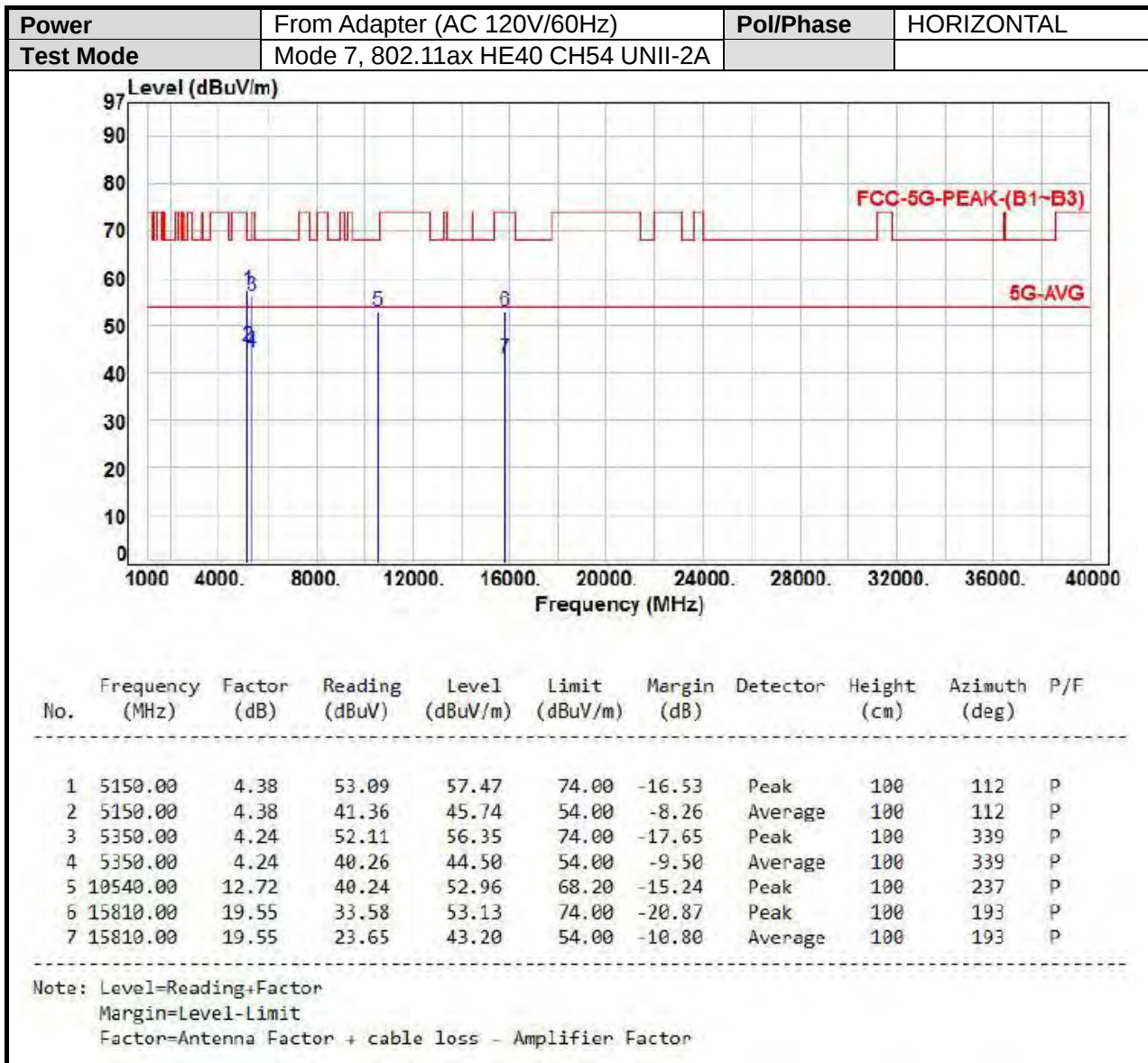


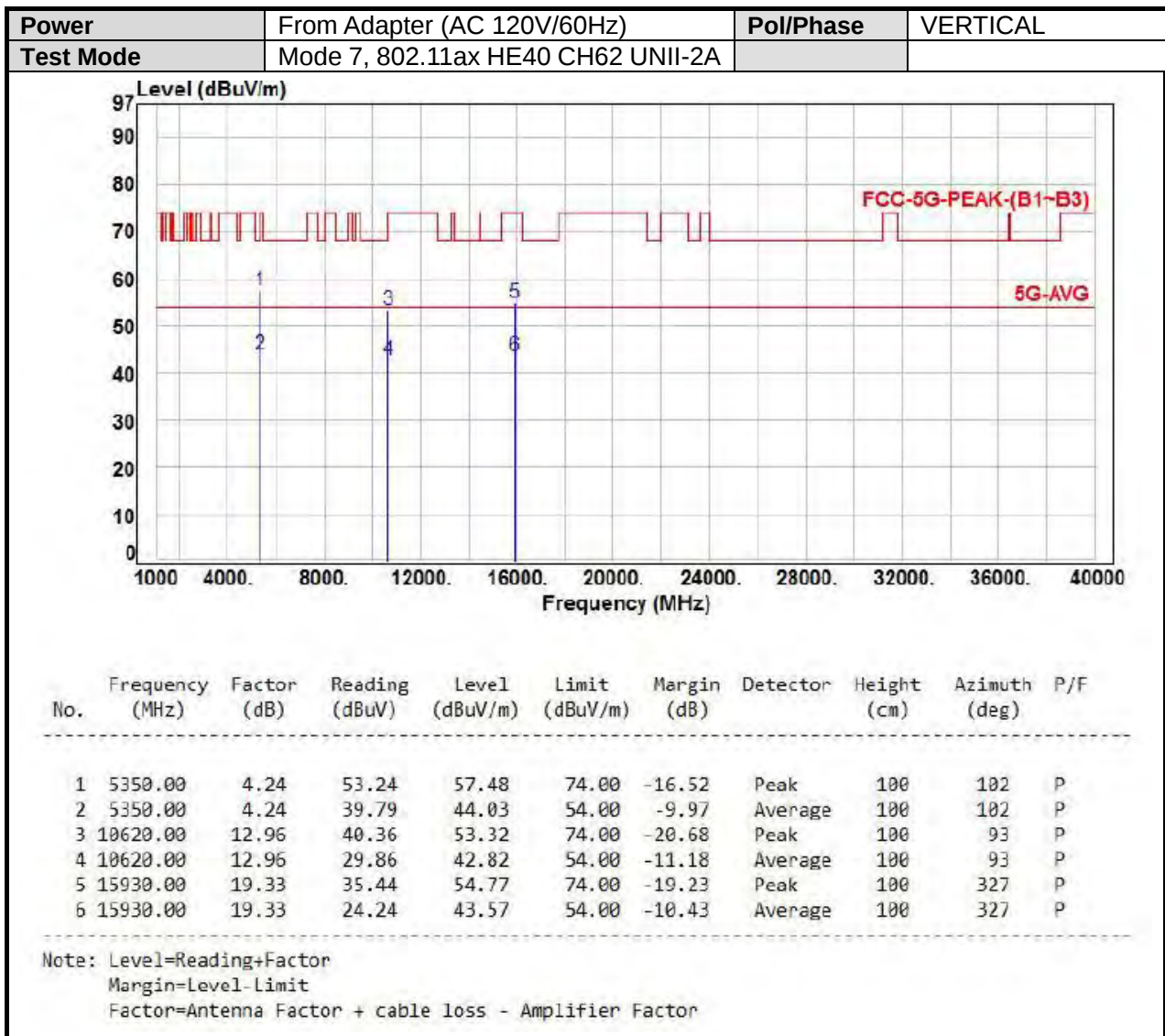


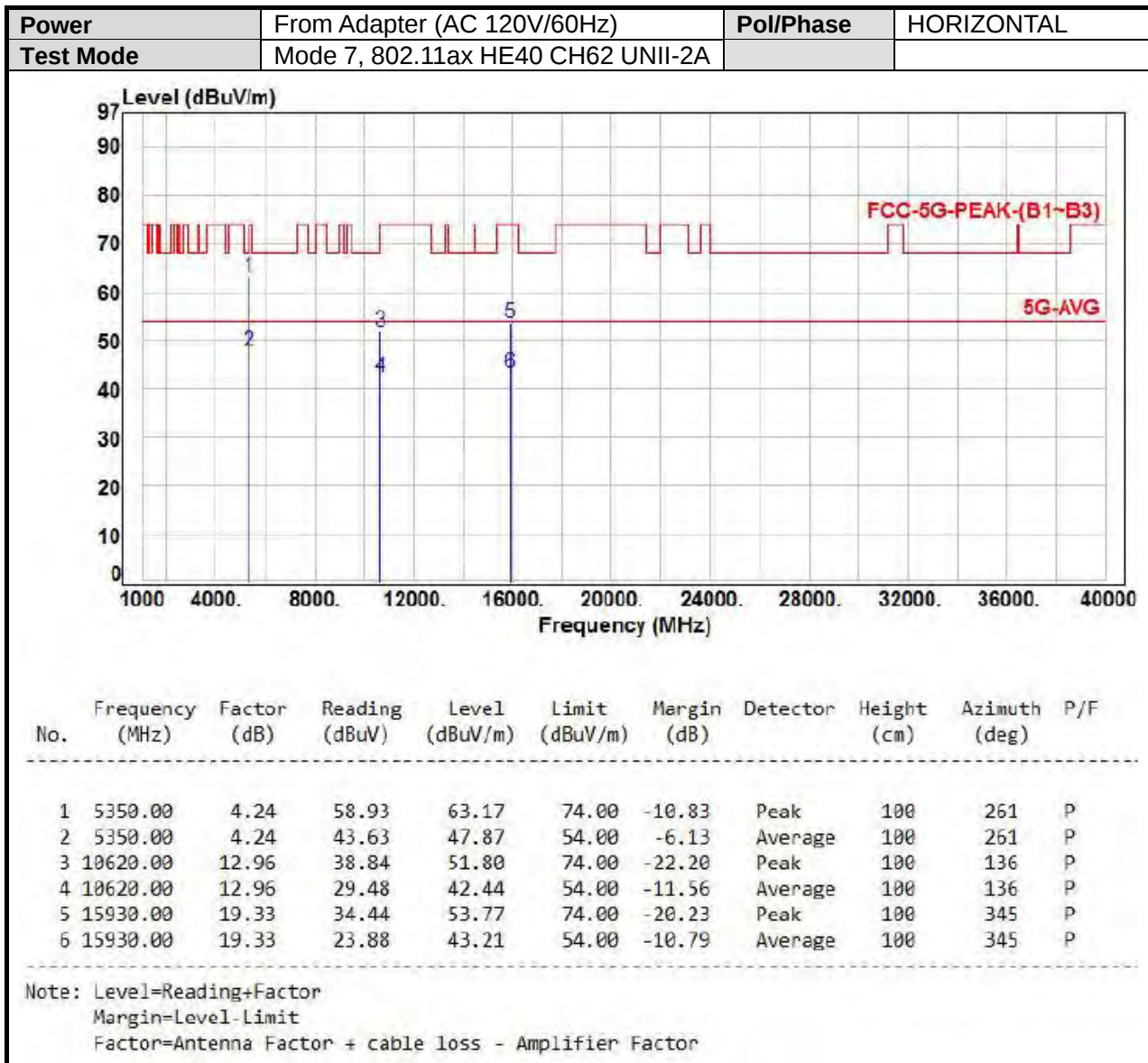






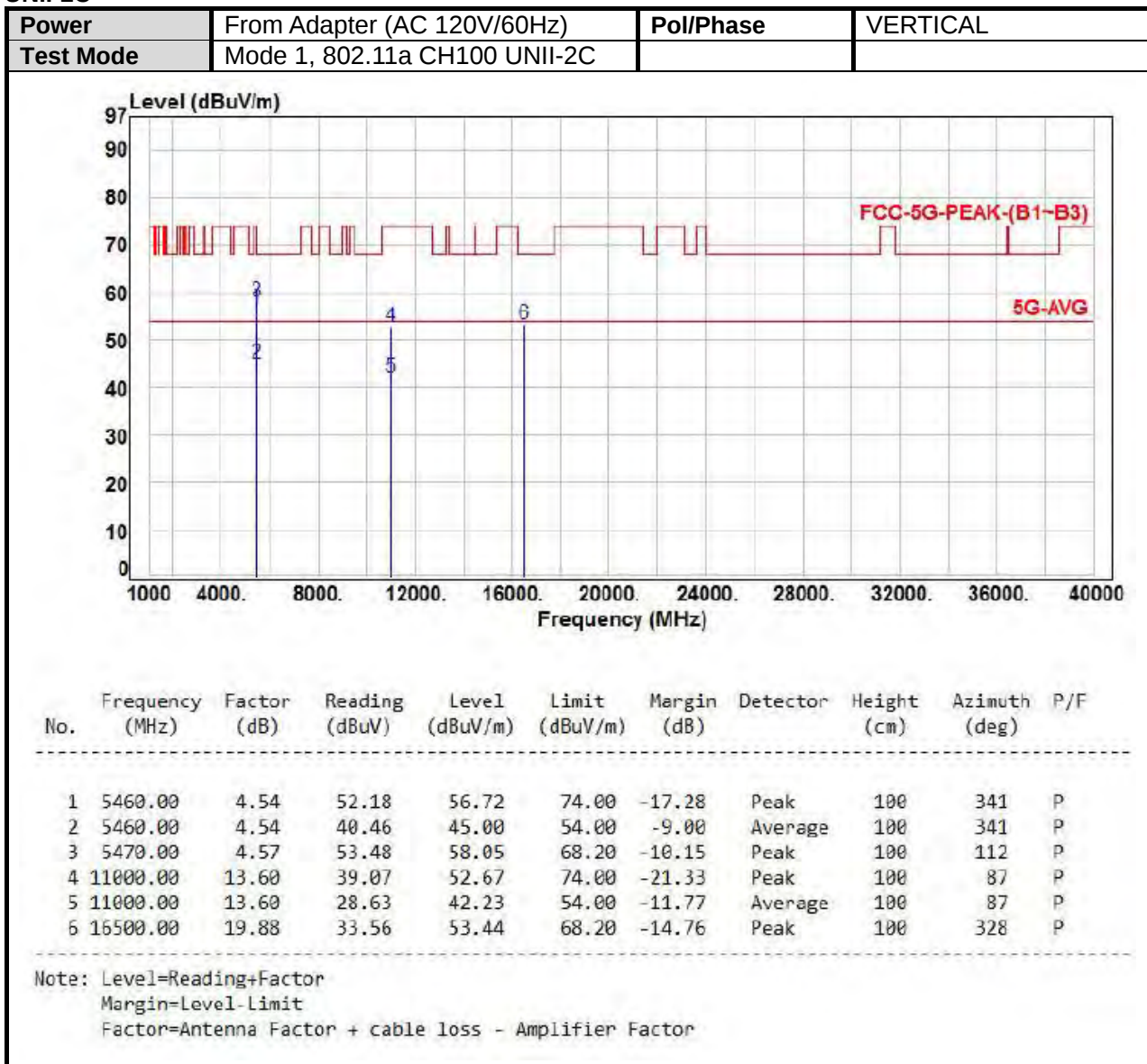


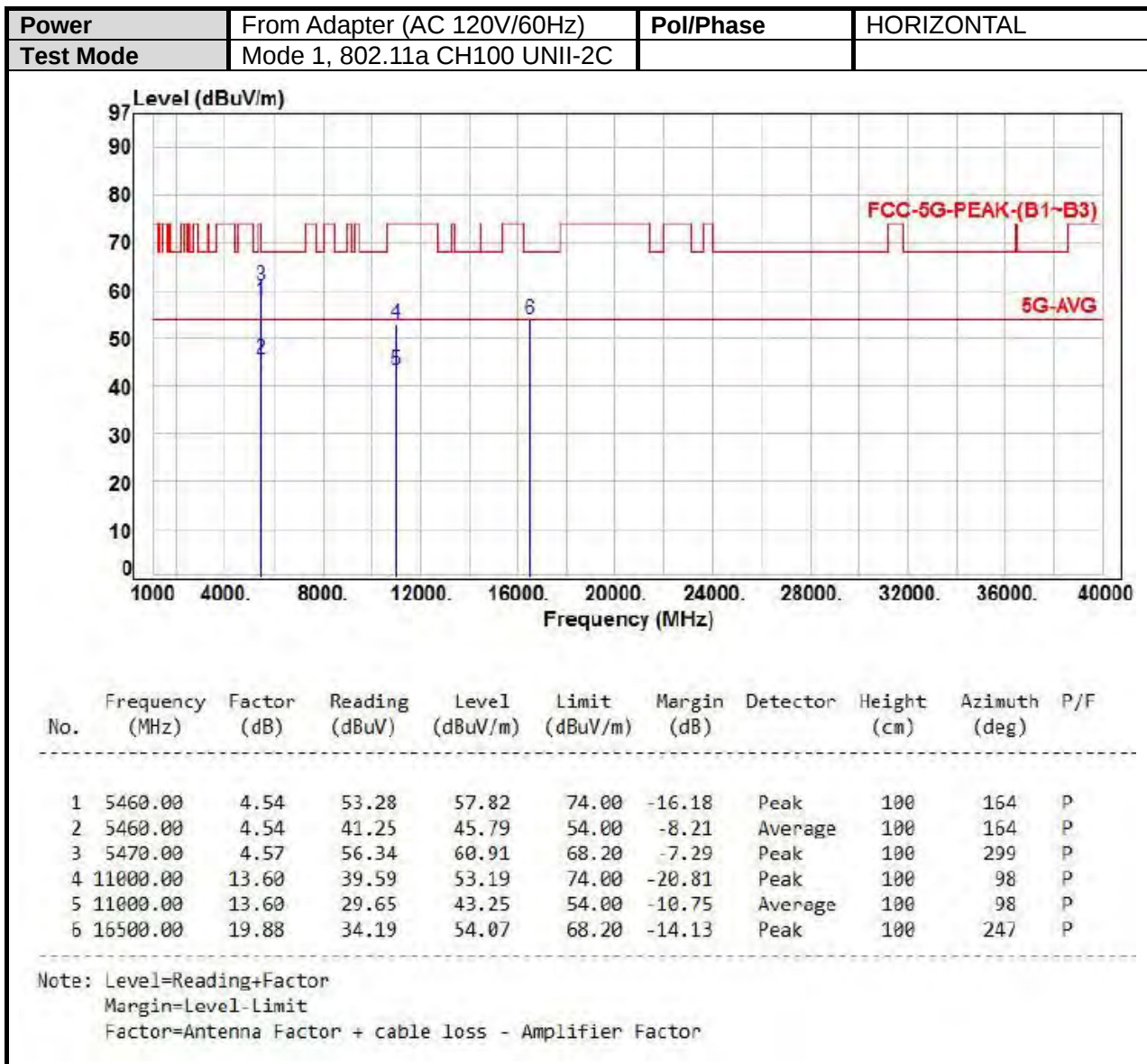


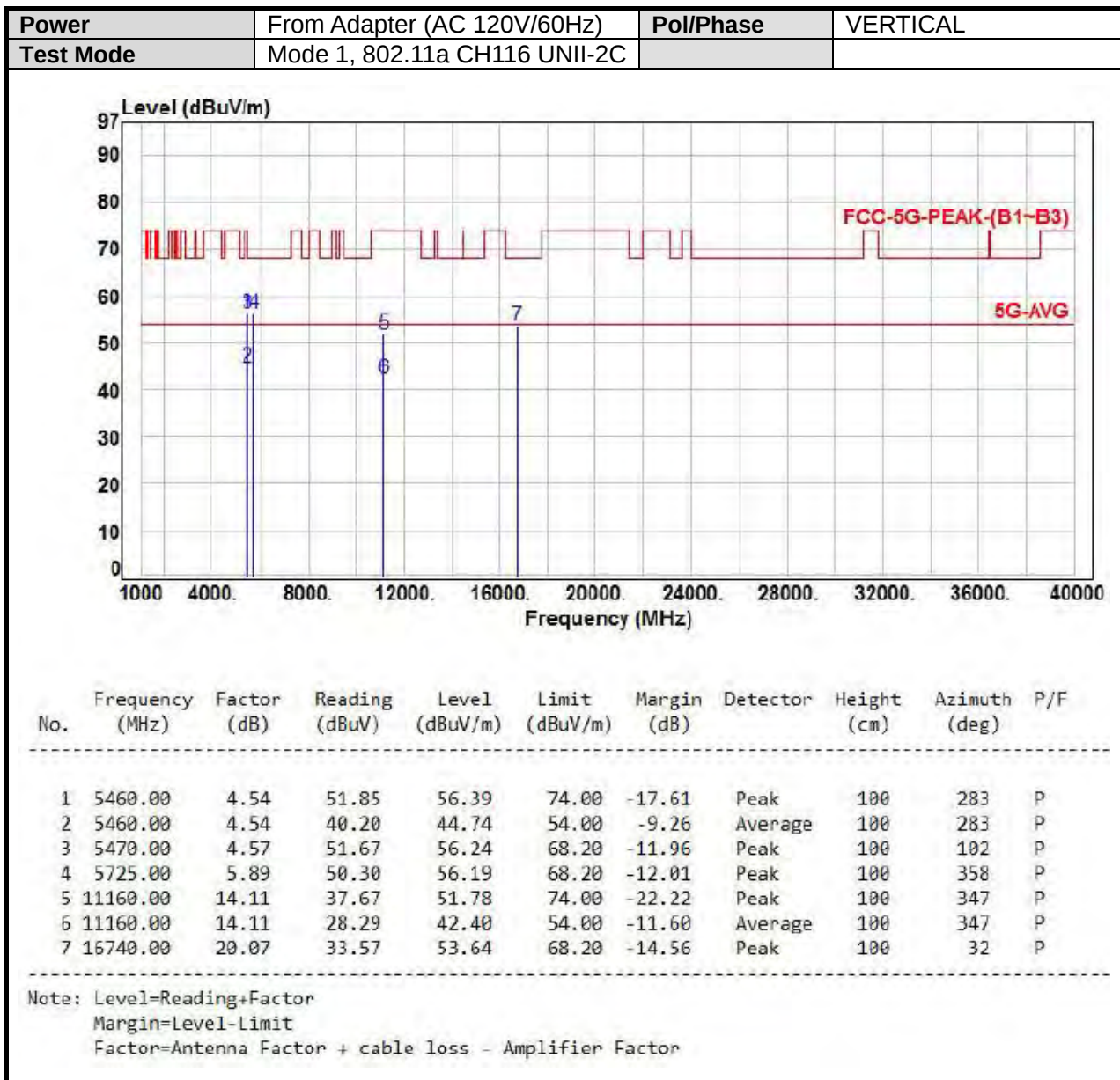


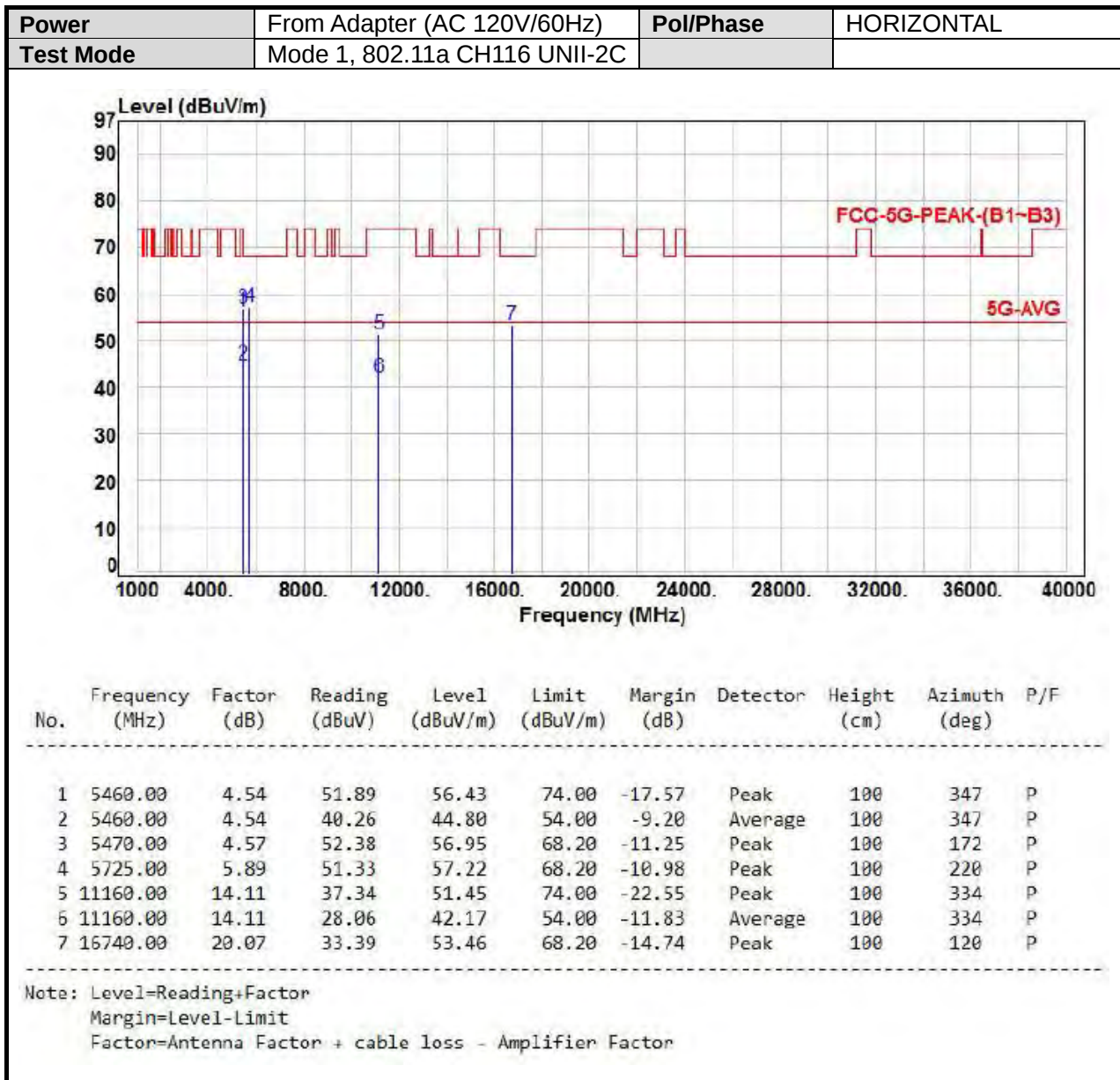


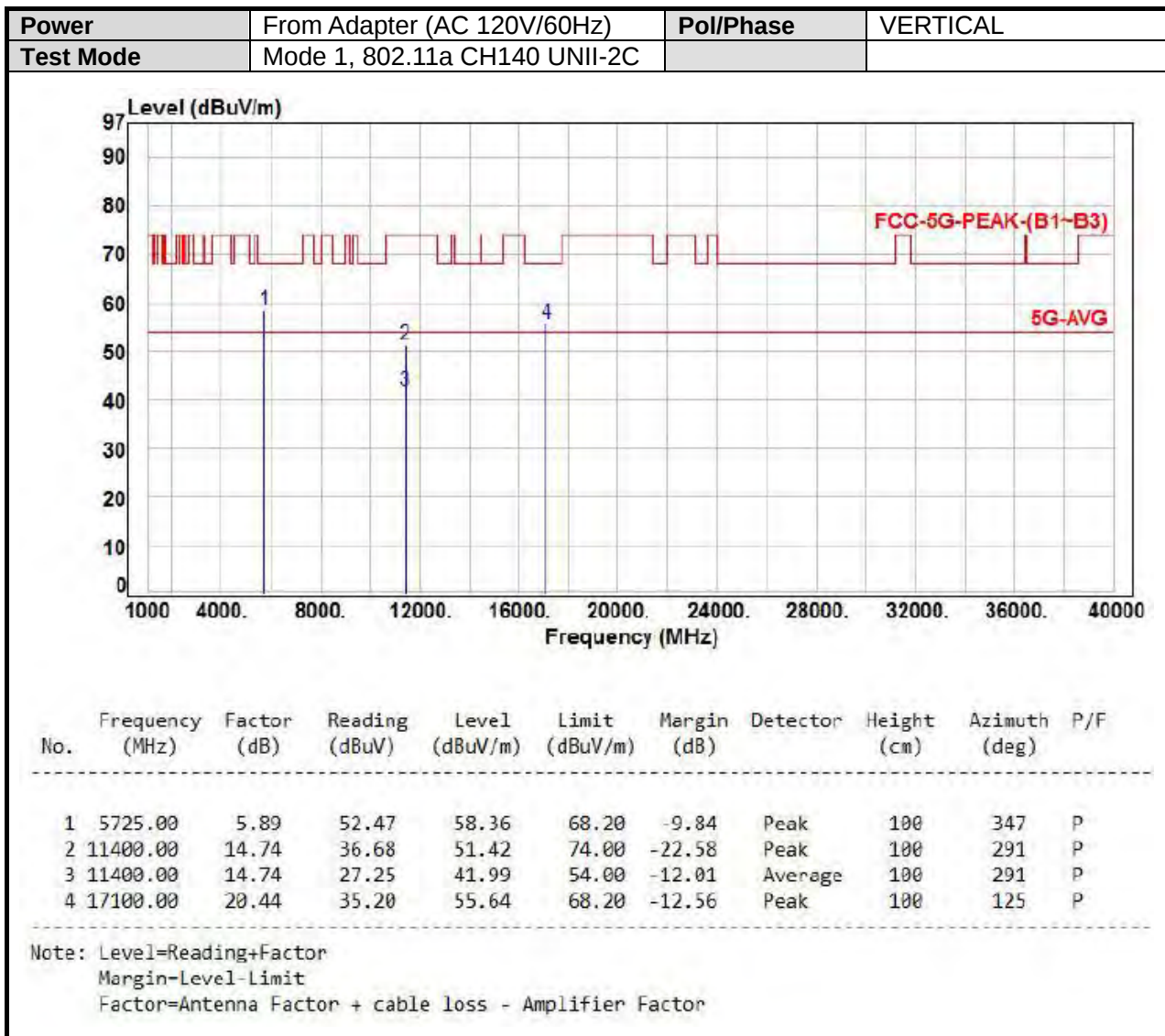
UNII-2C

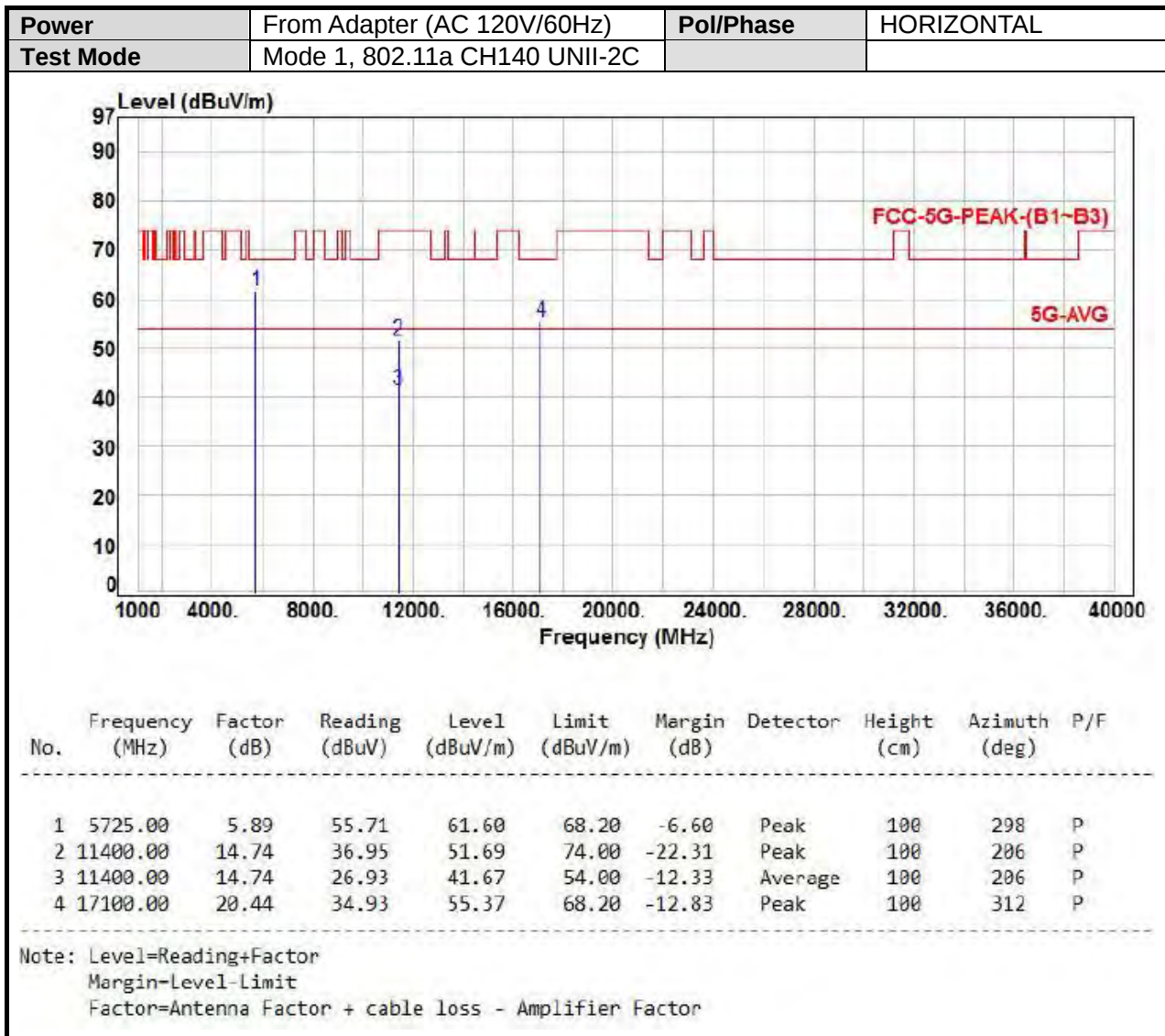


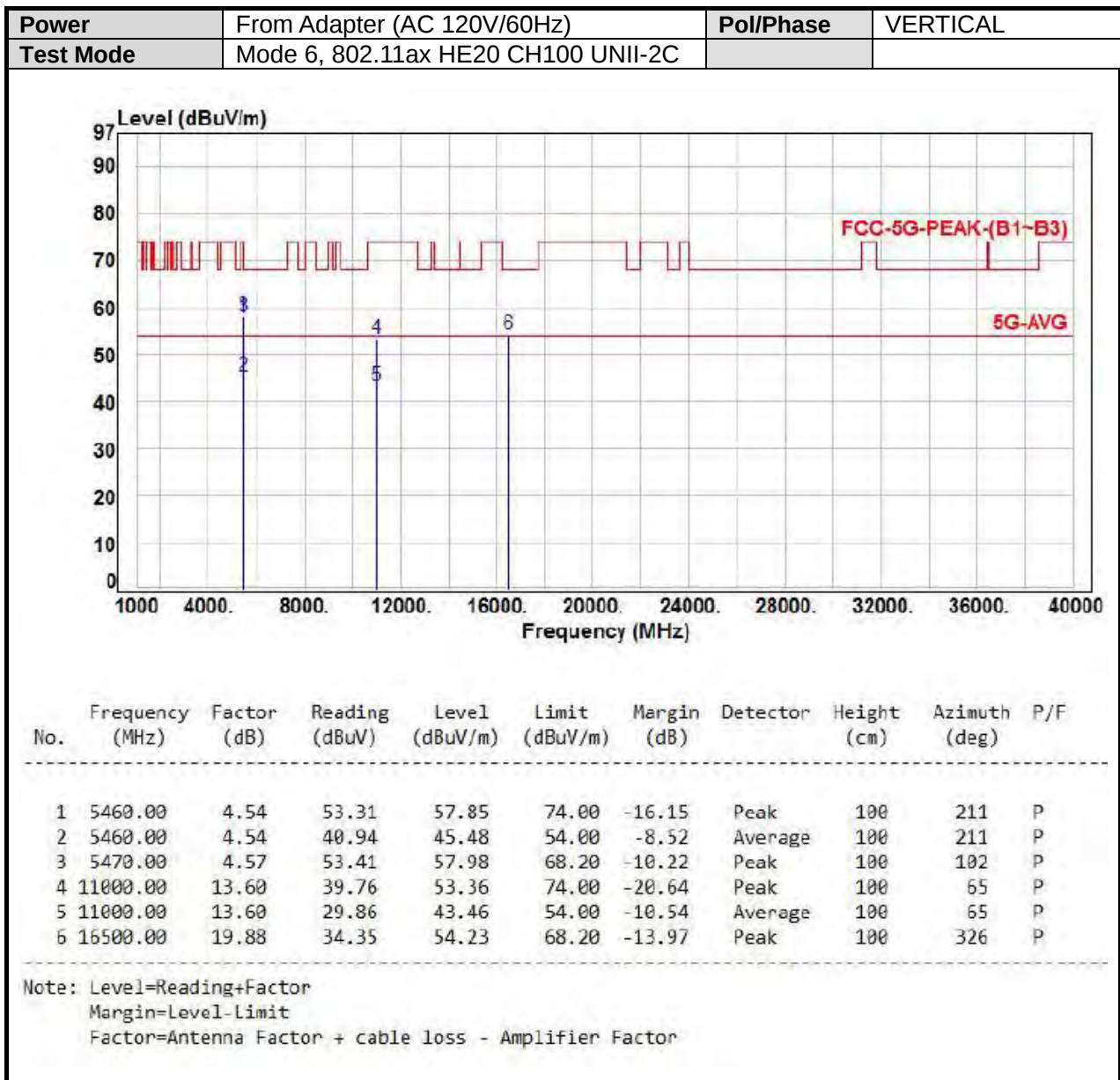


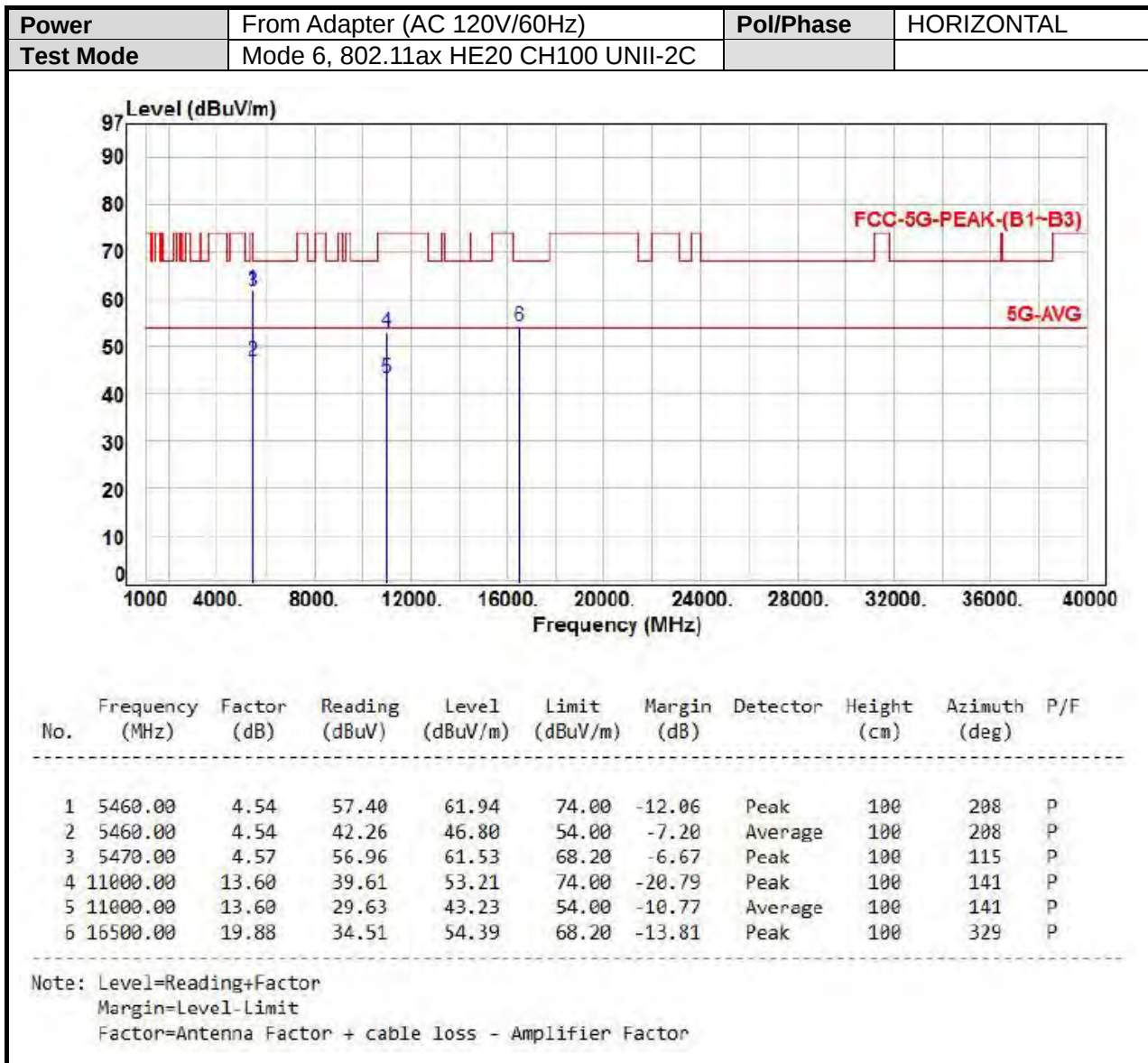


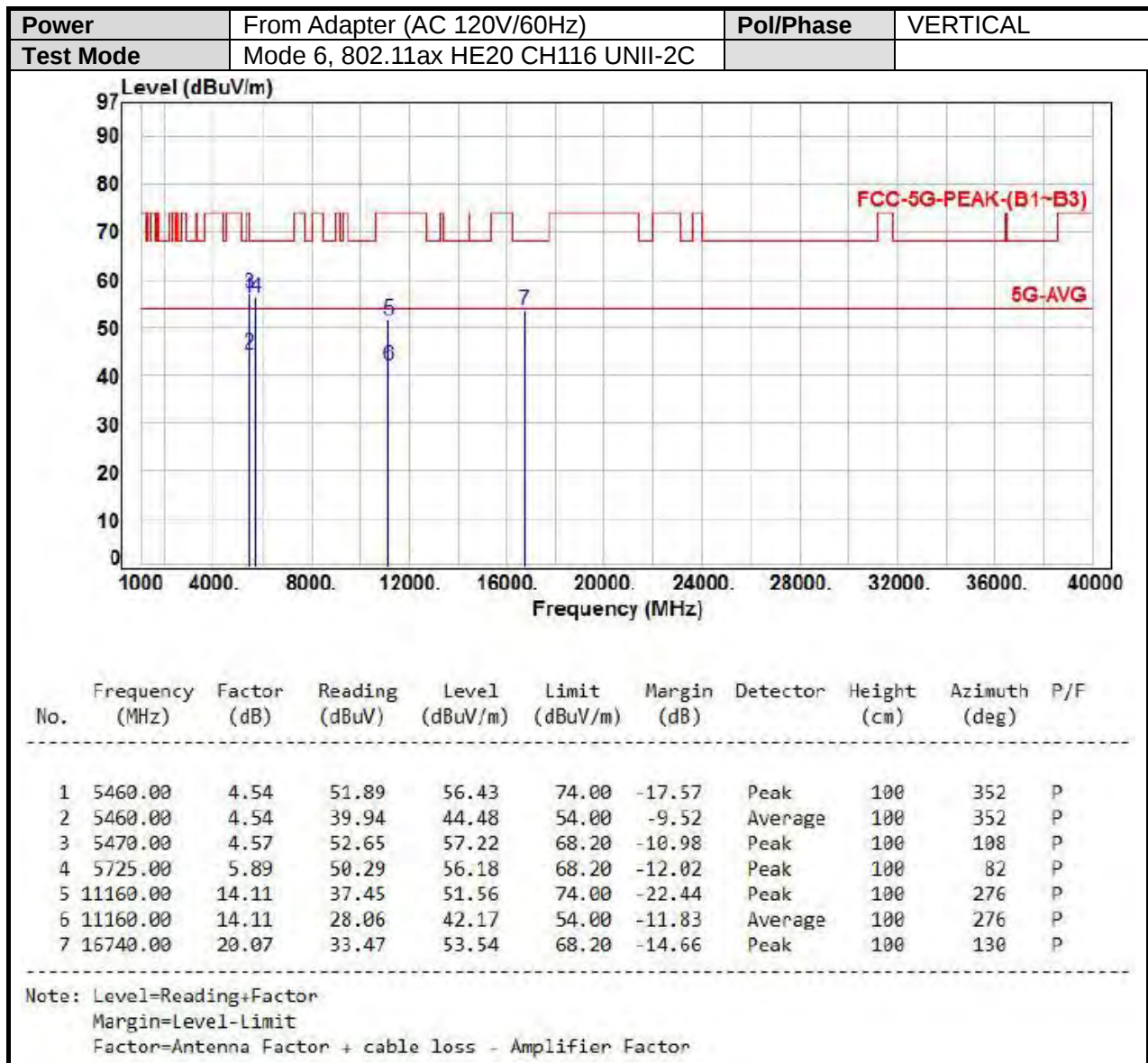


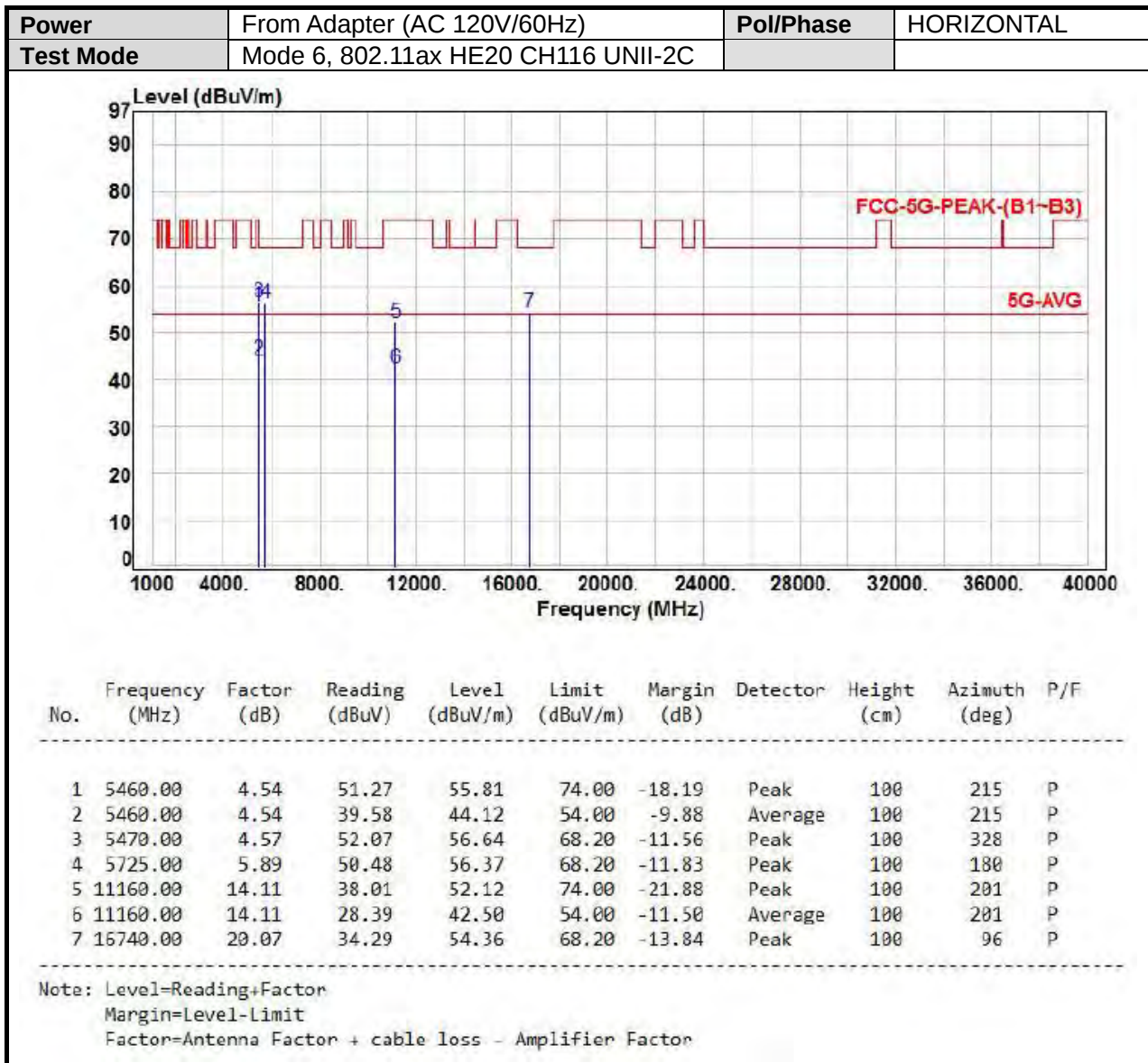


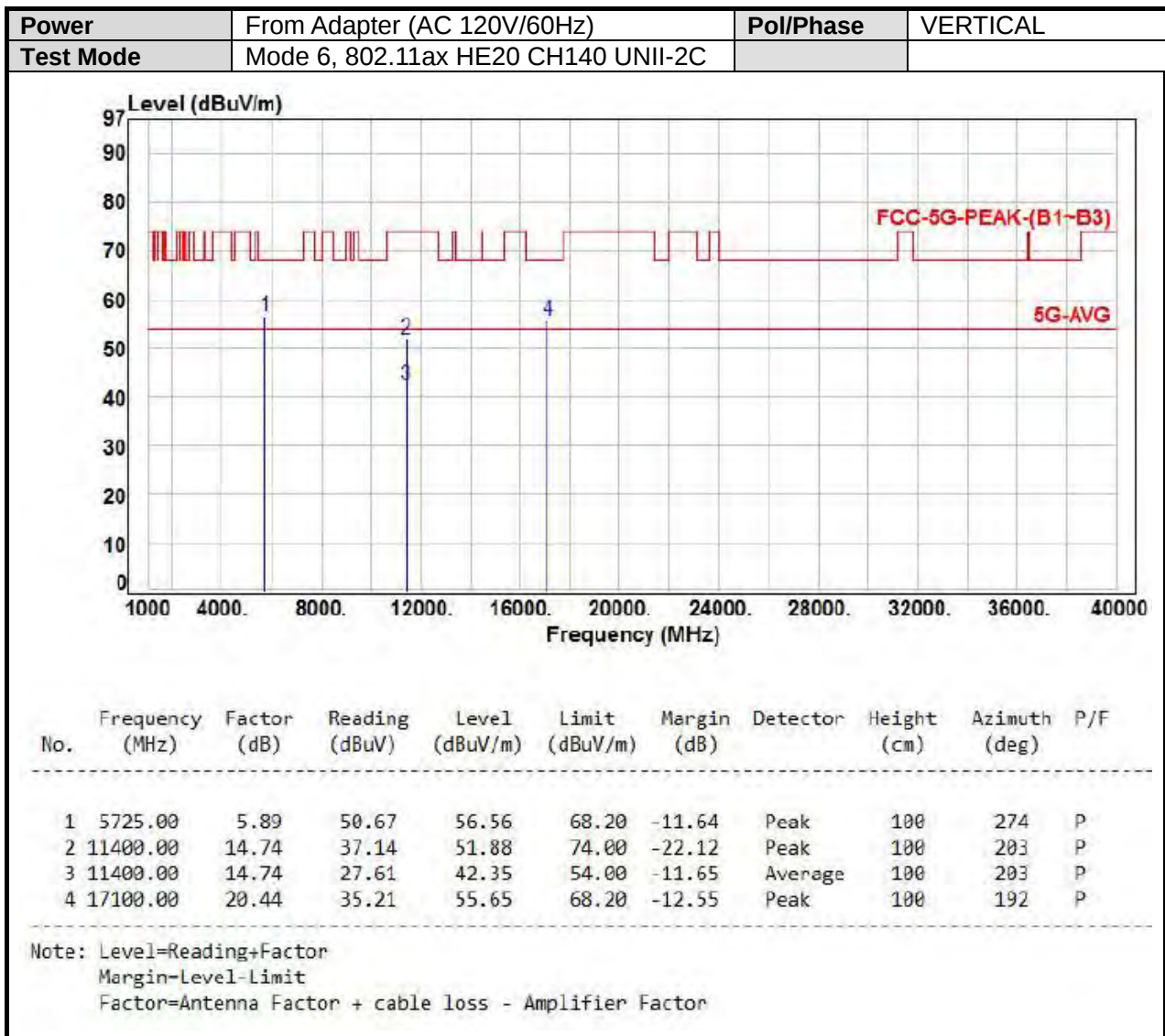


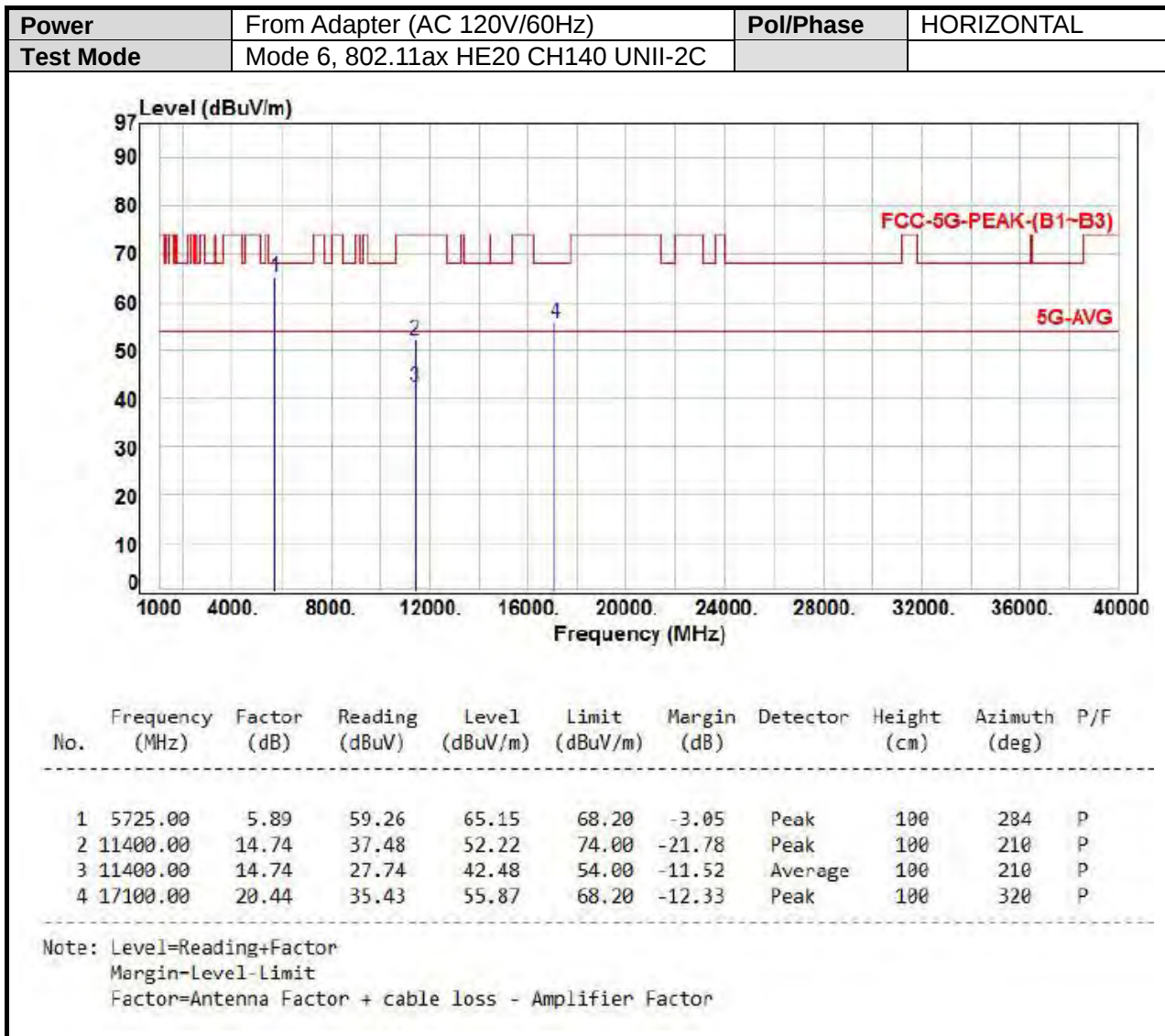


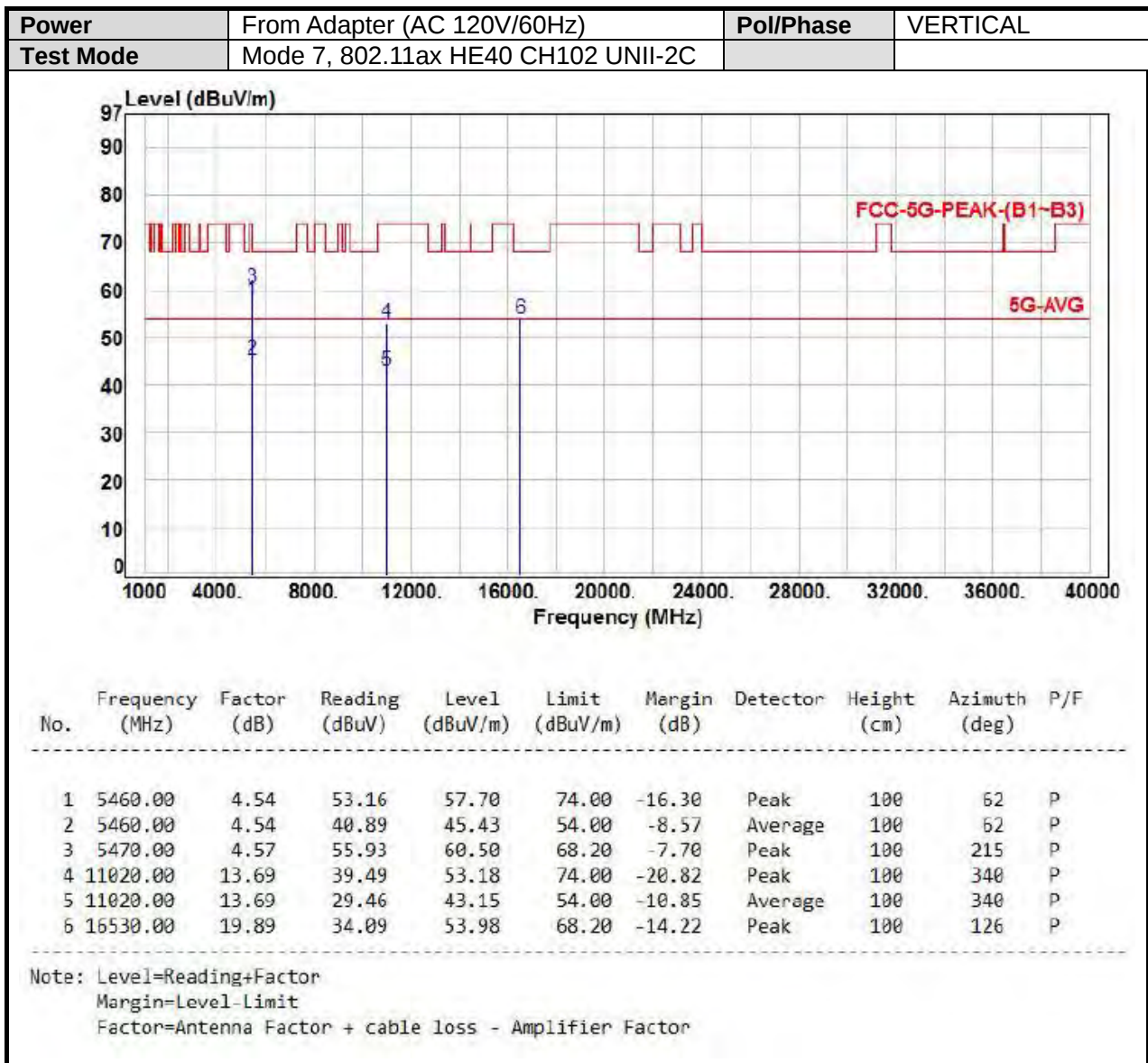


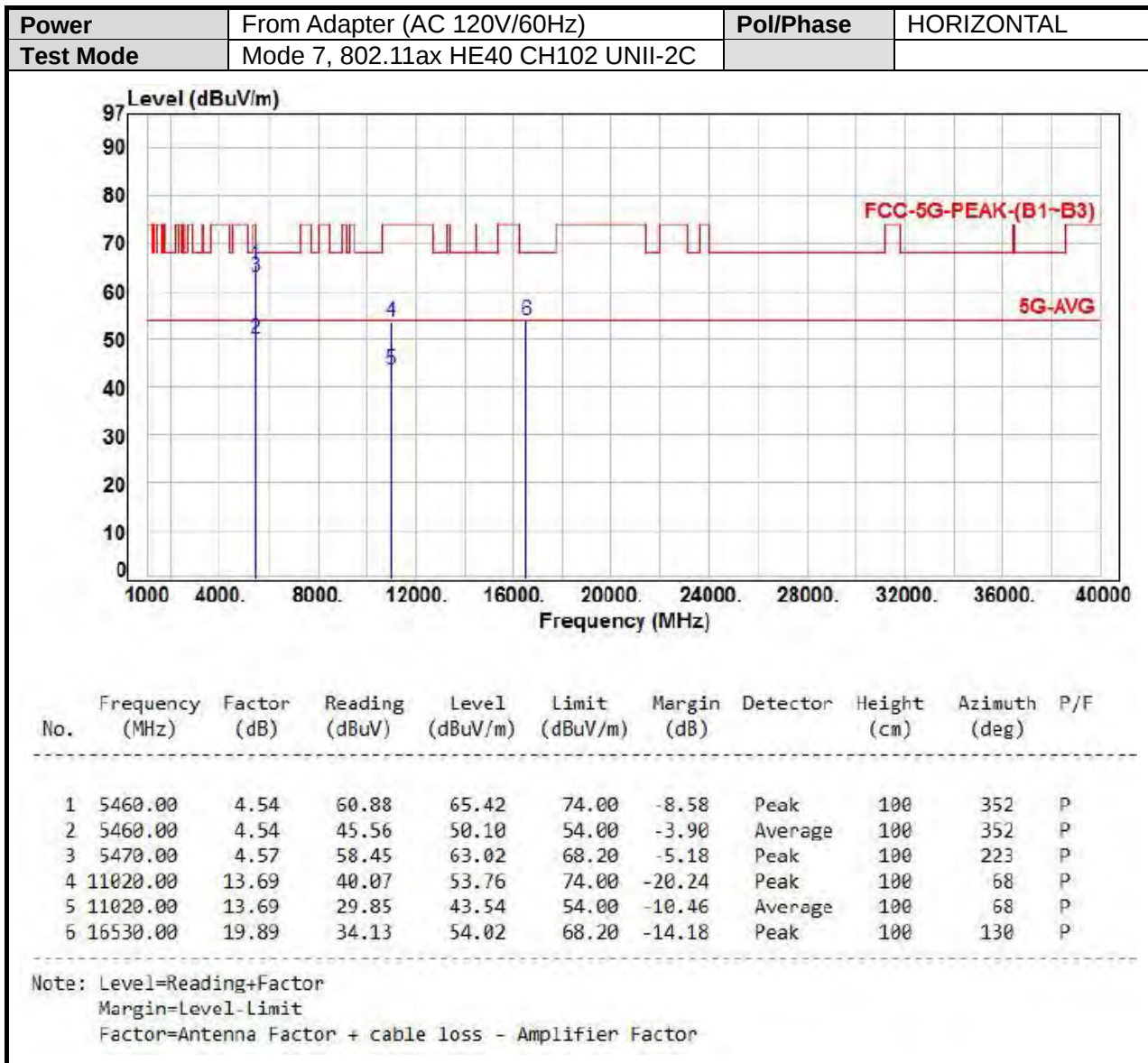


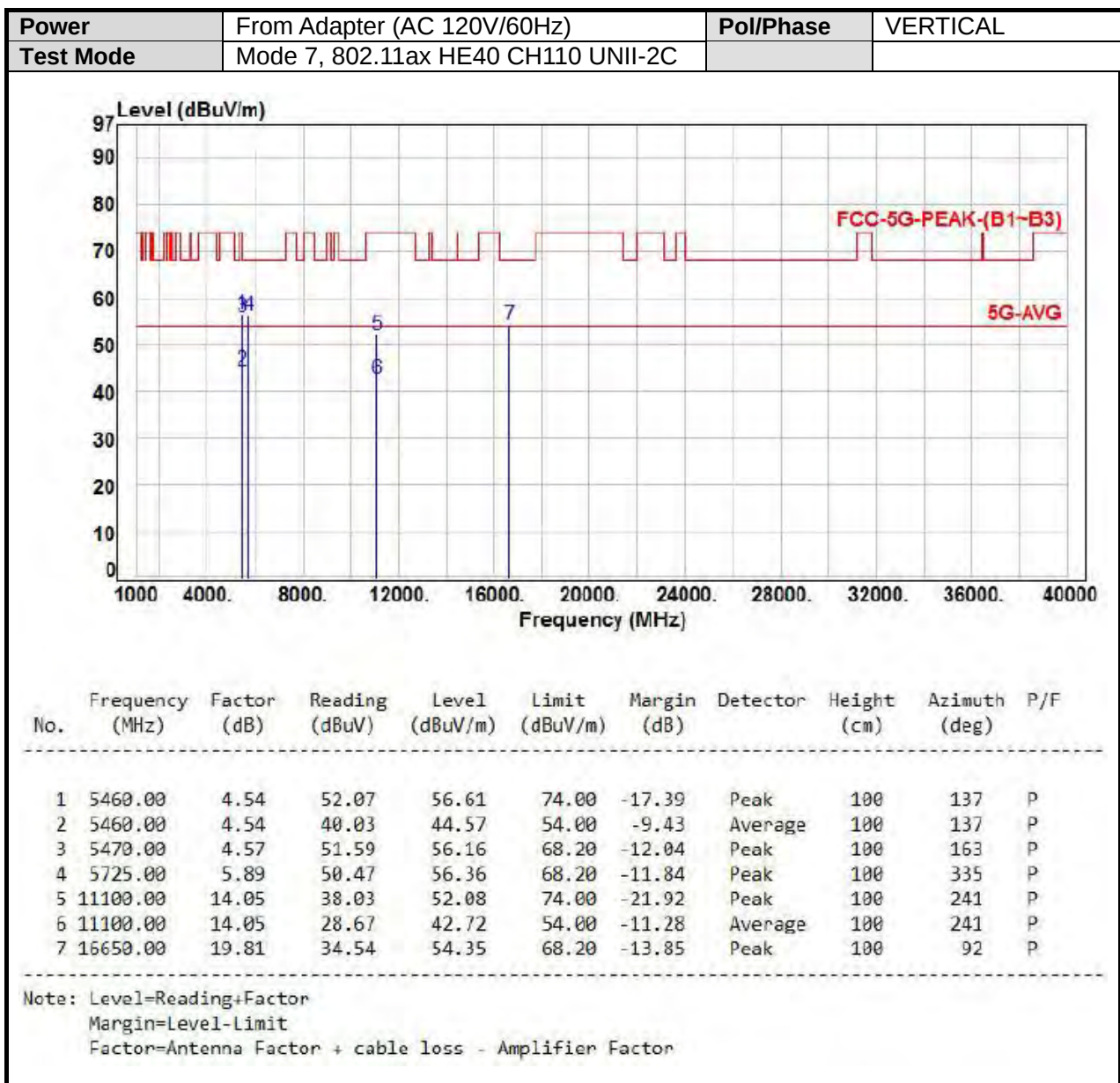


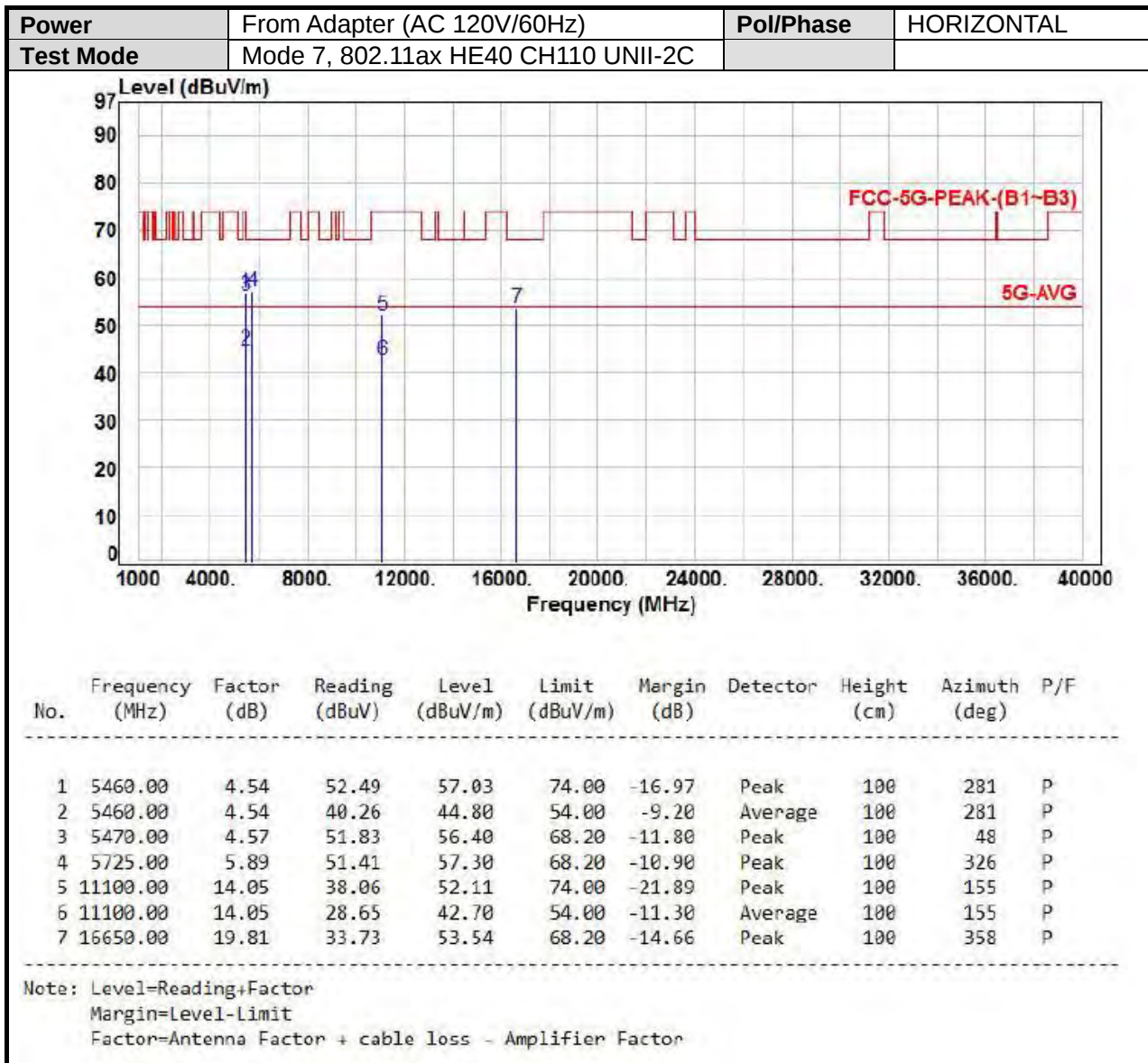


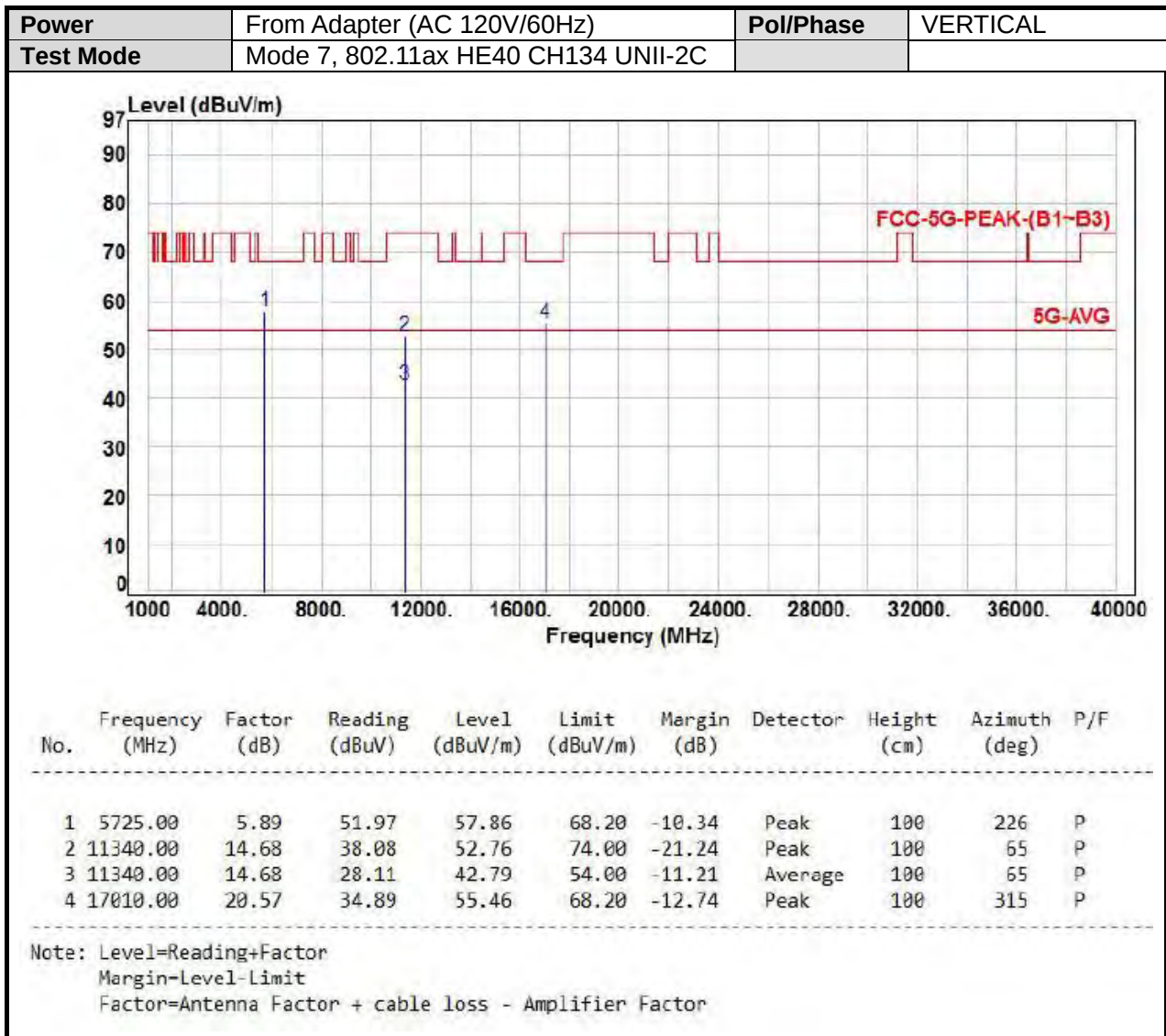


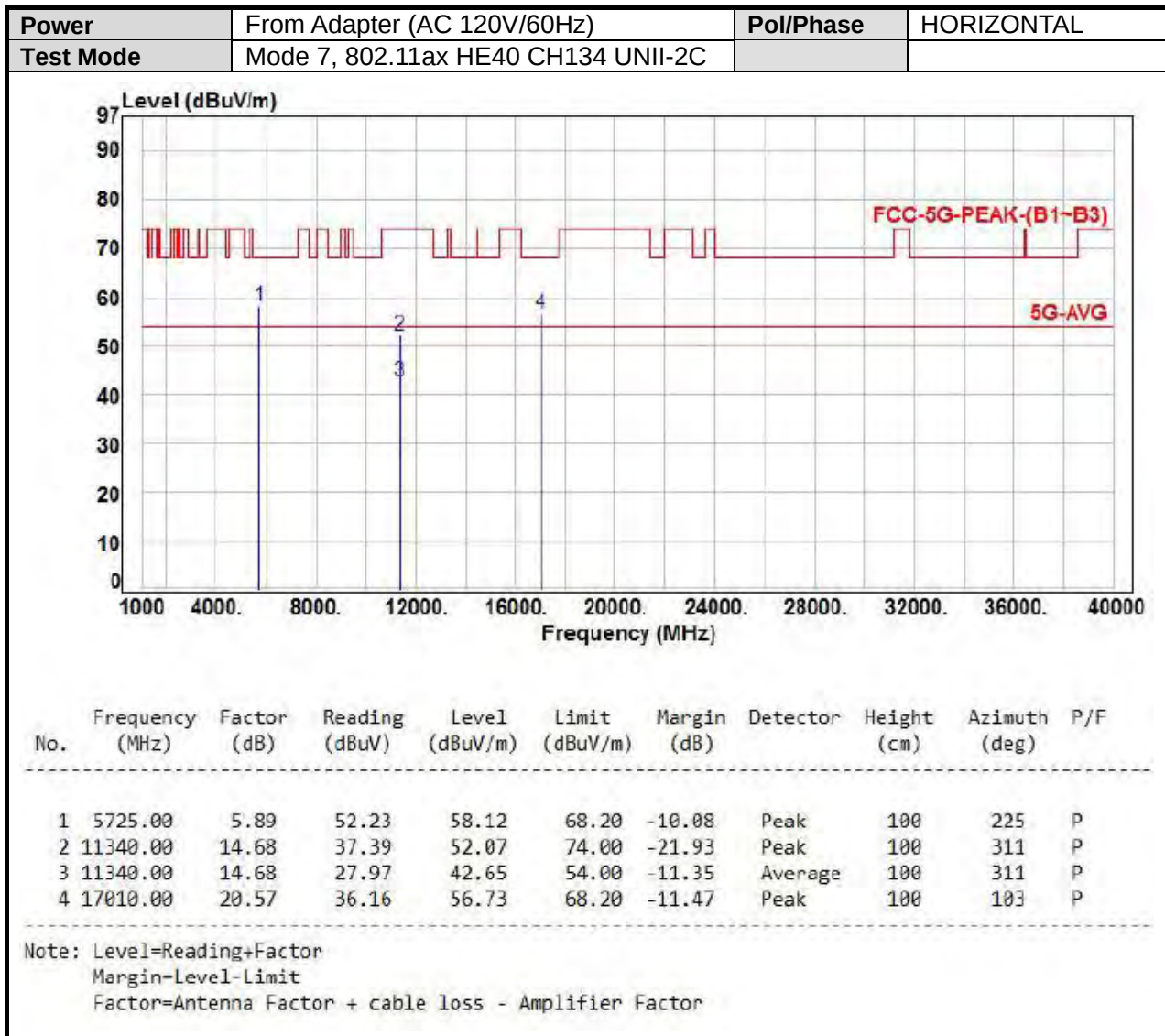






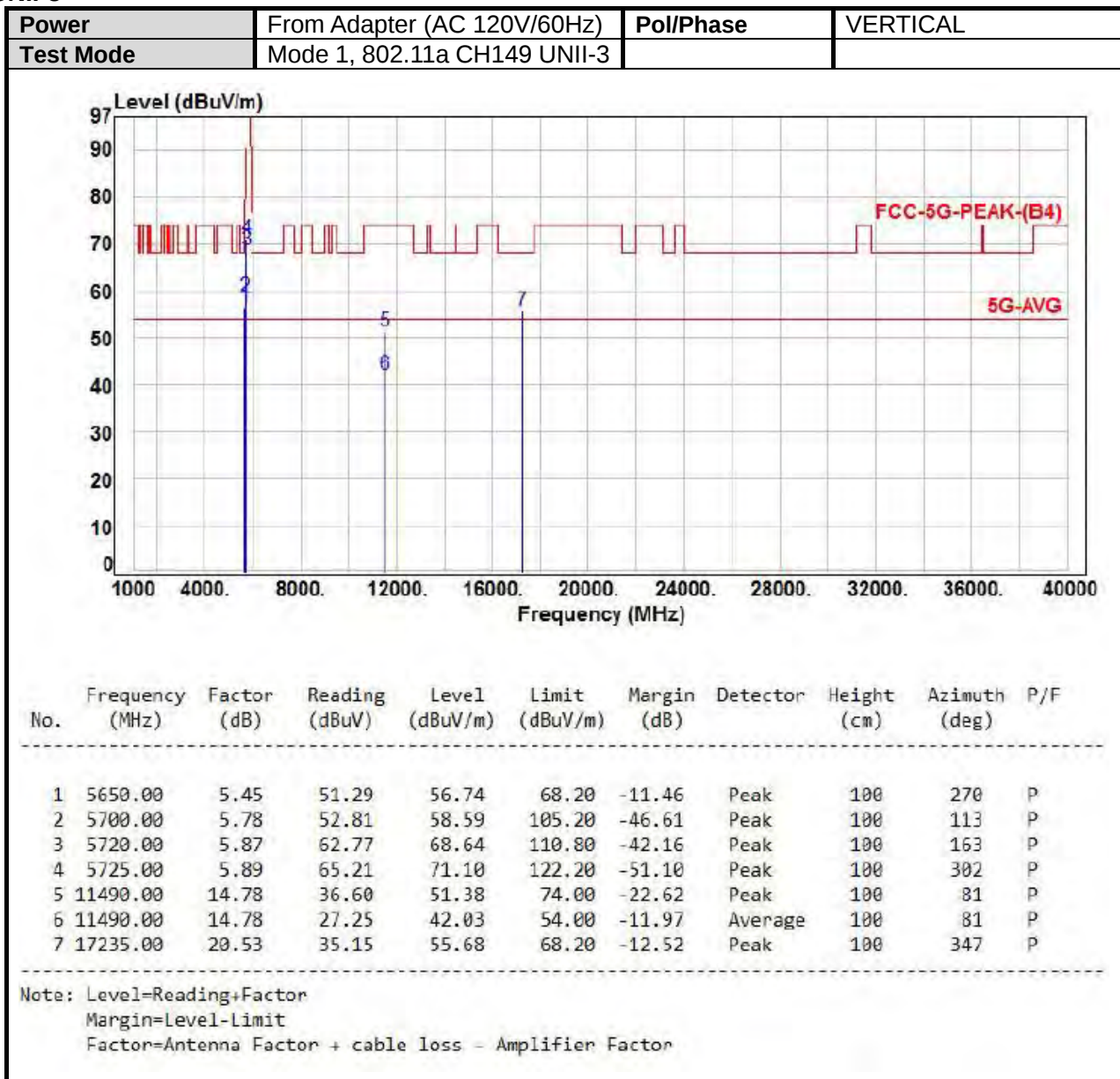


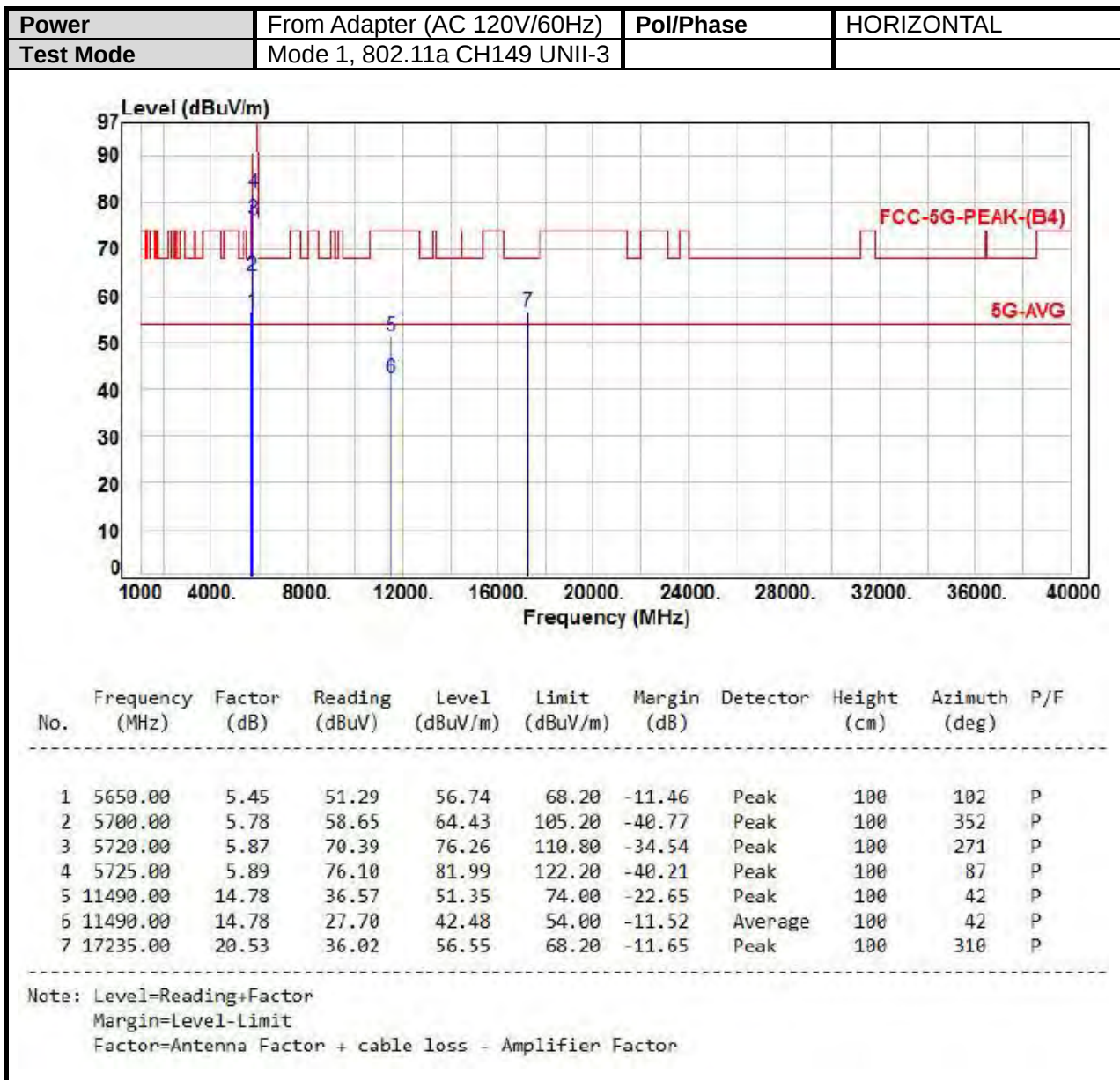


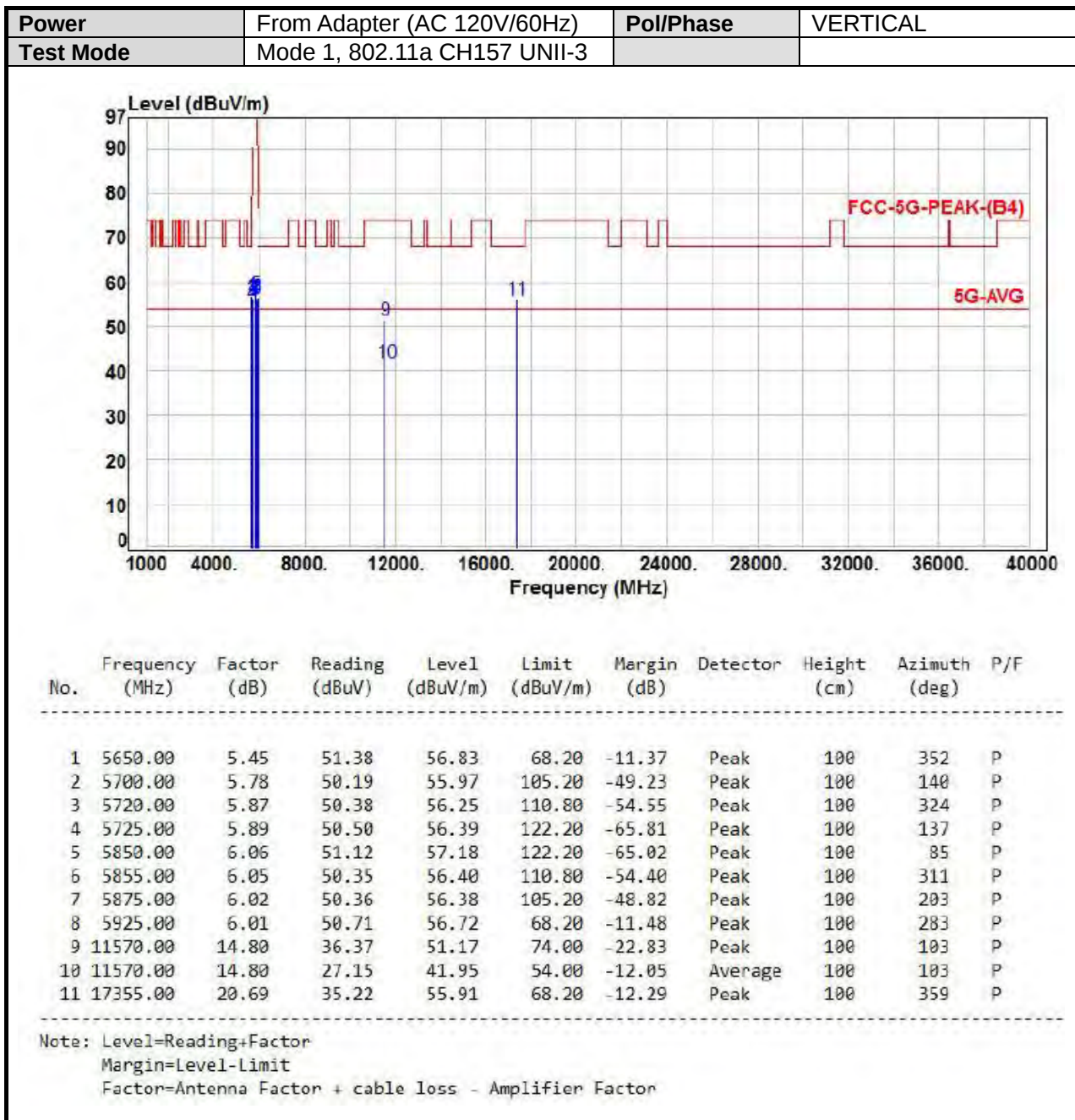


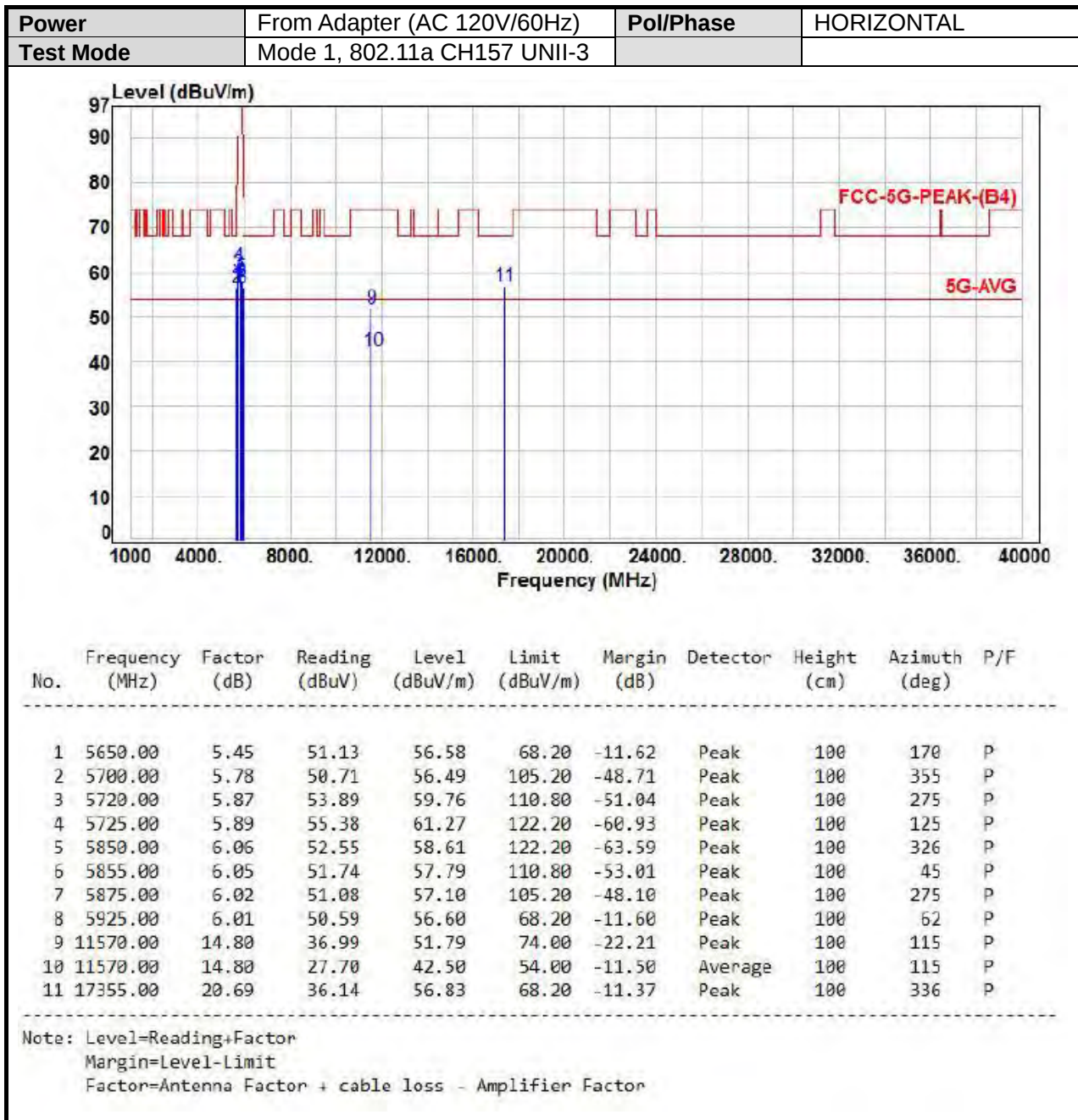


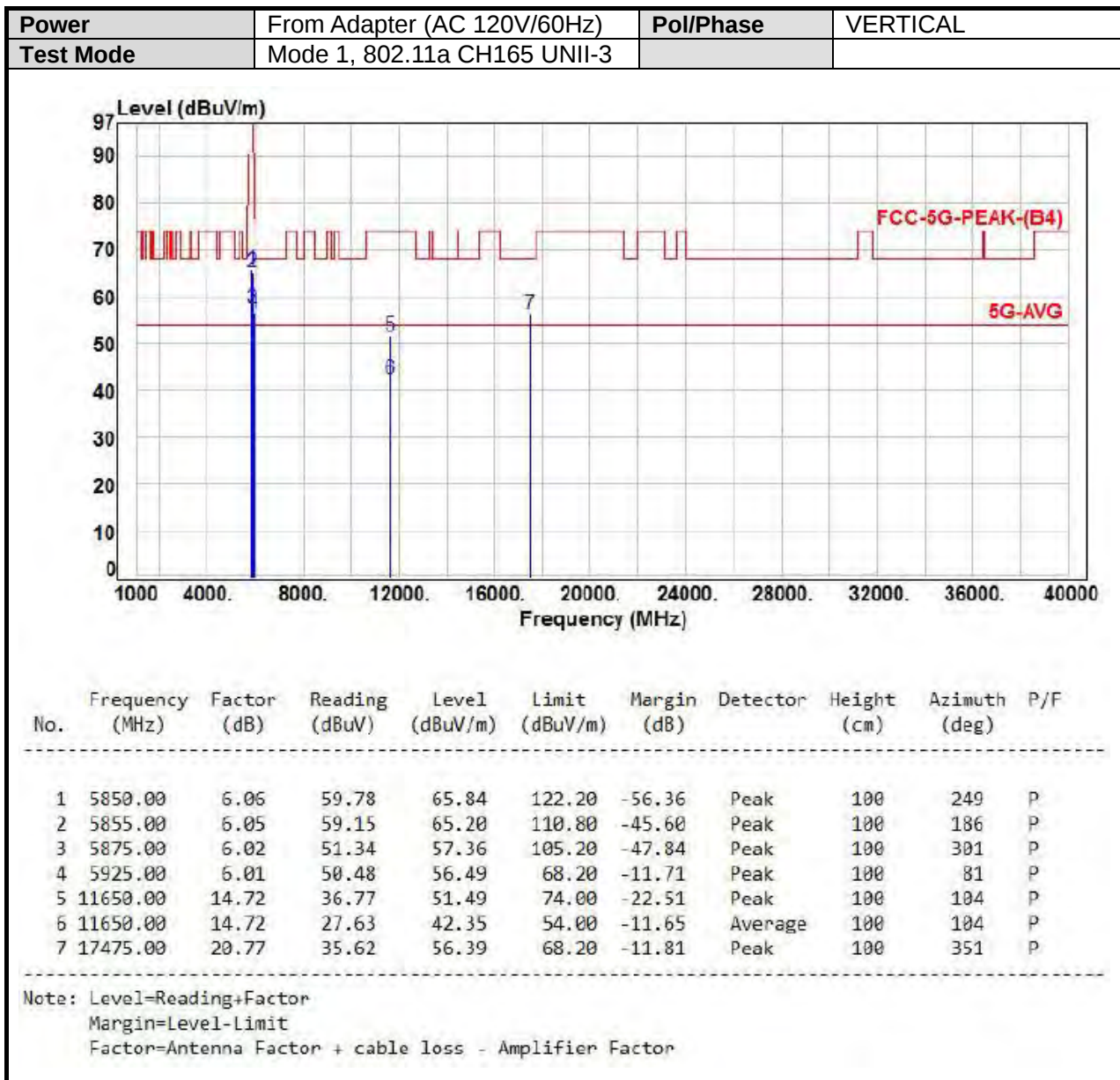
UNII-3

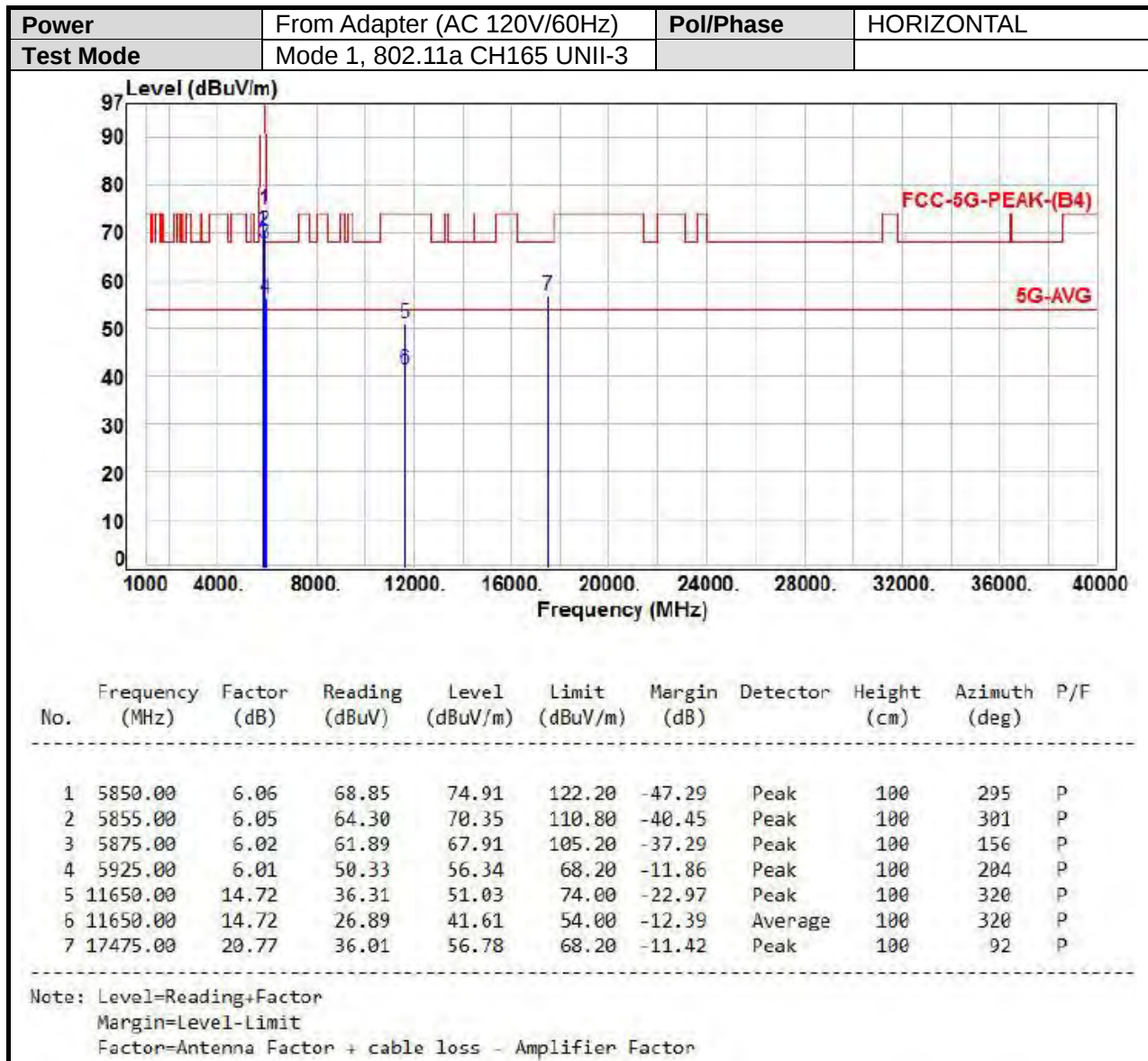


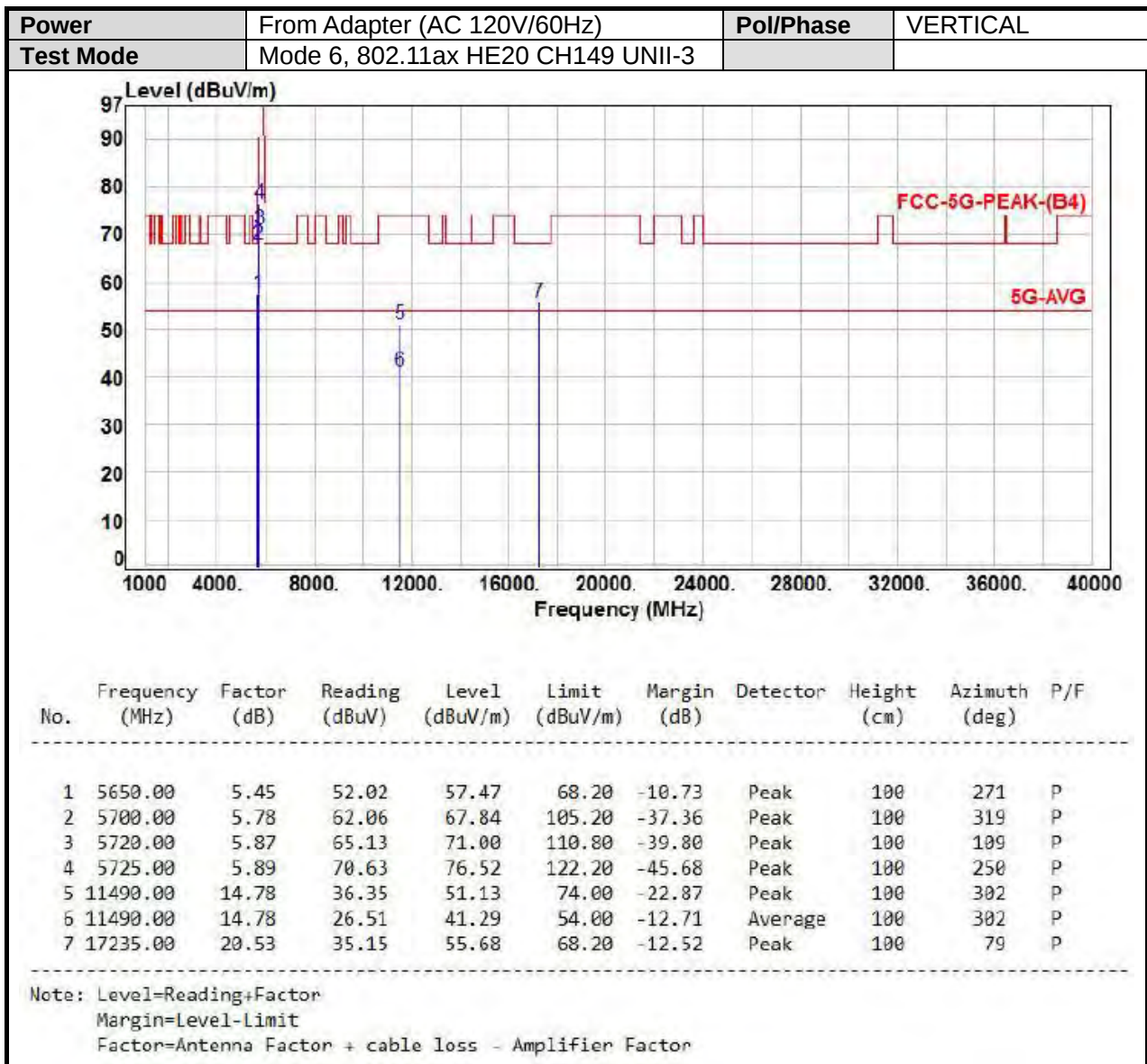


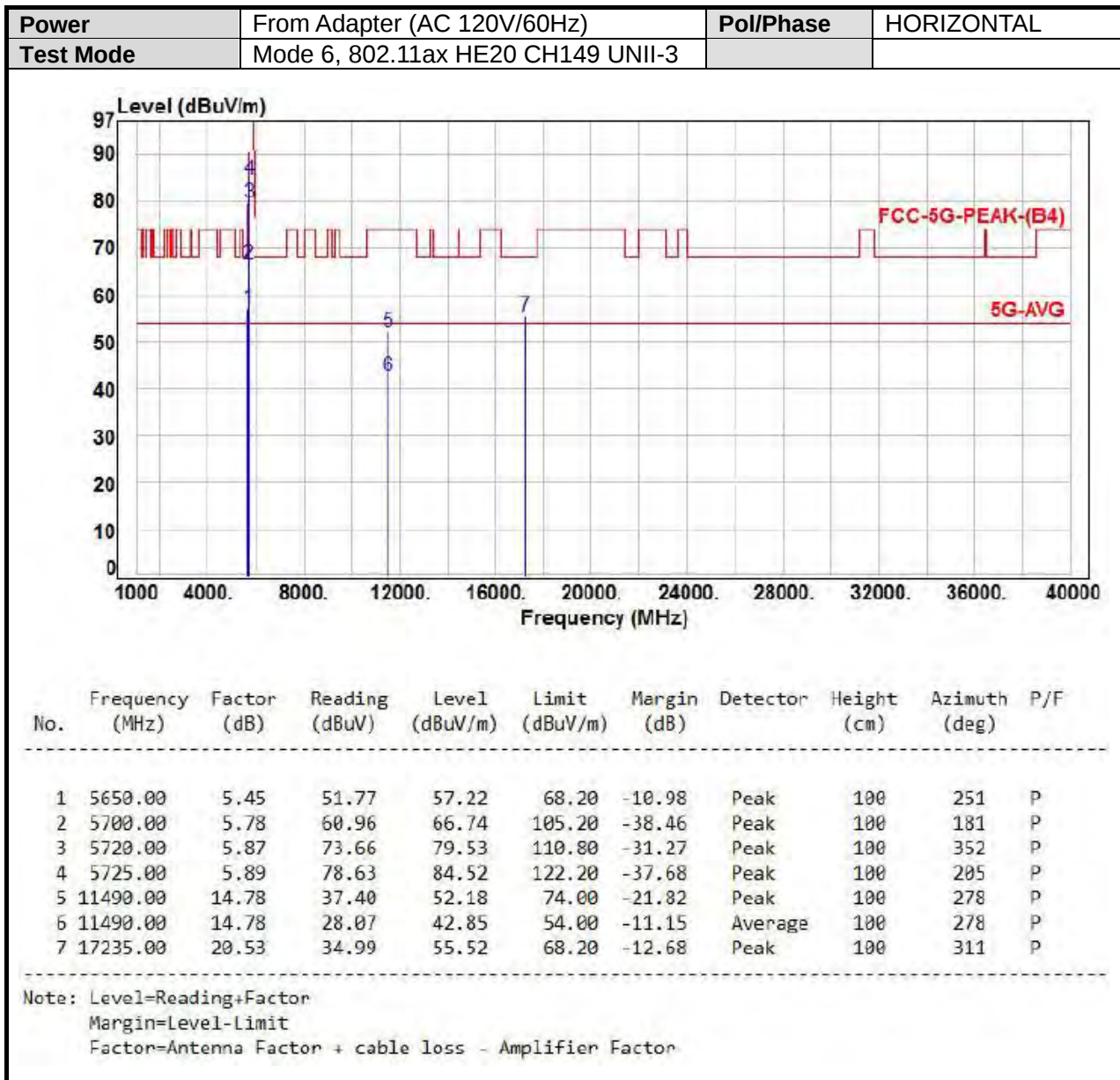






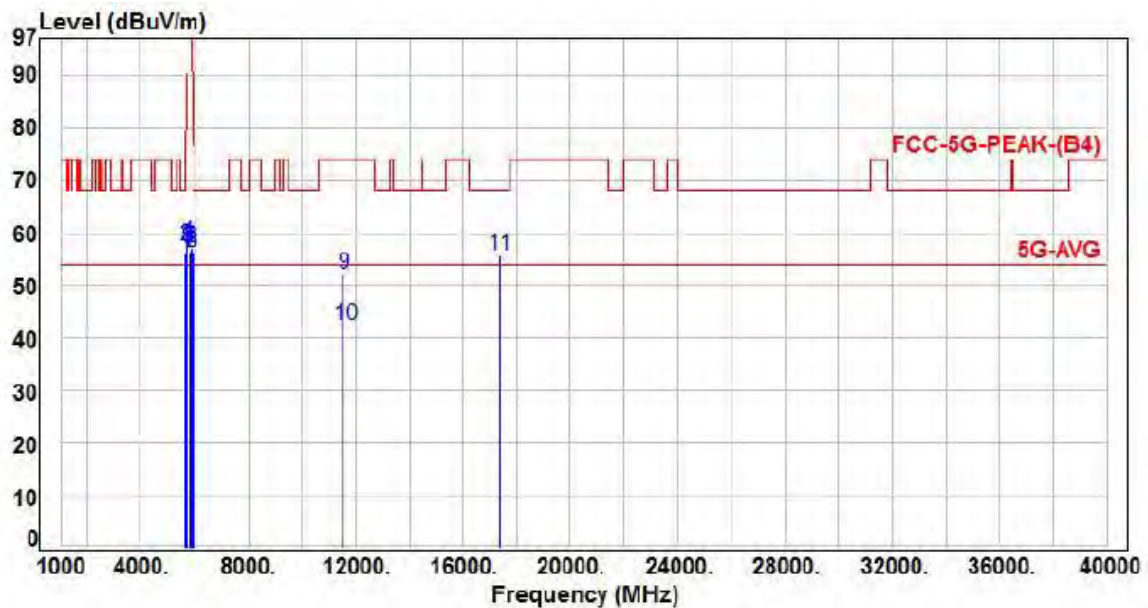






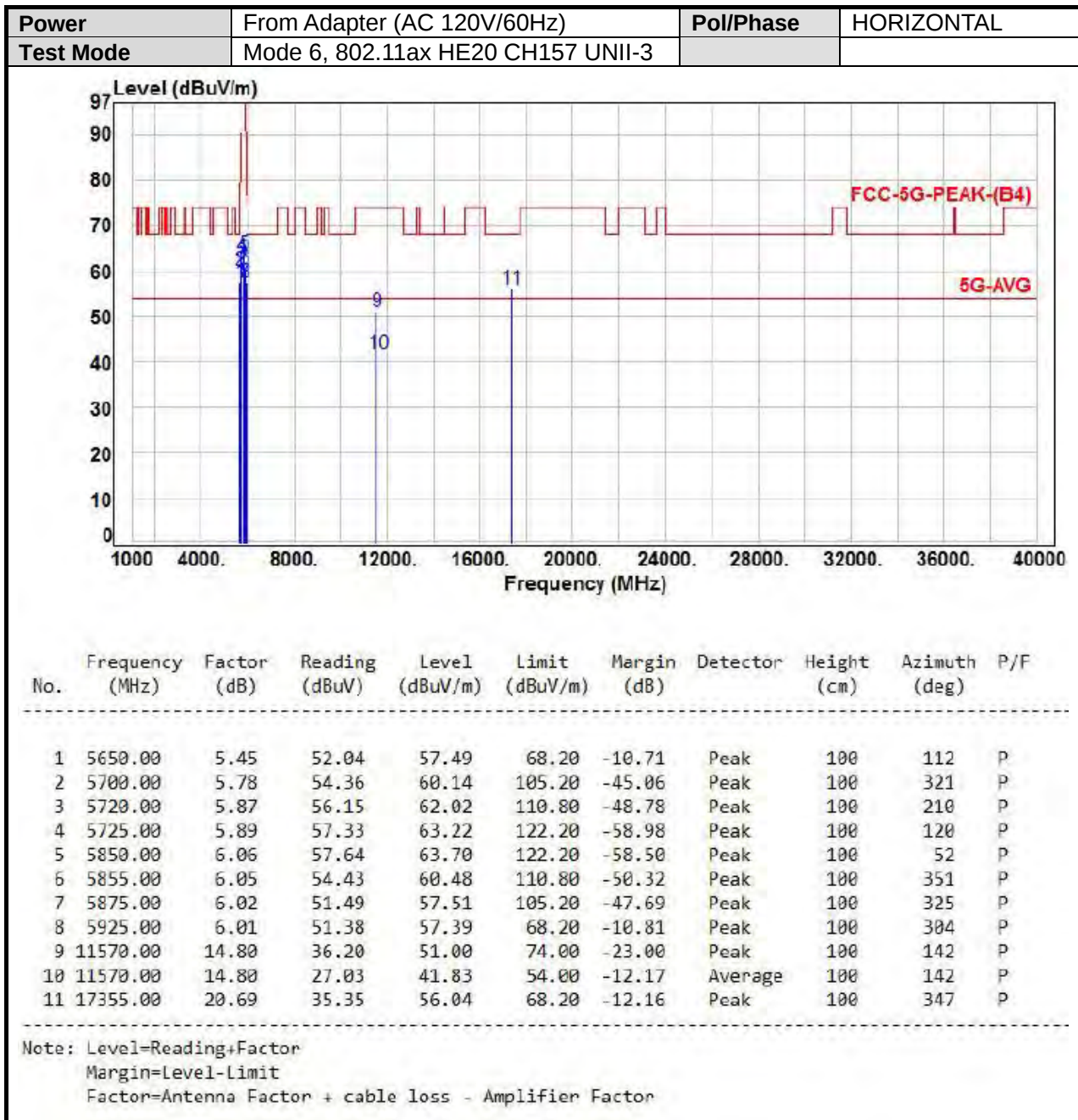


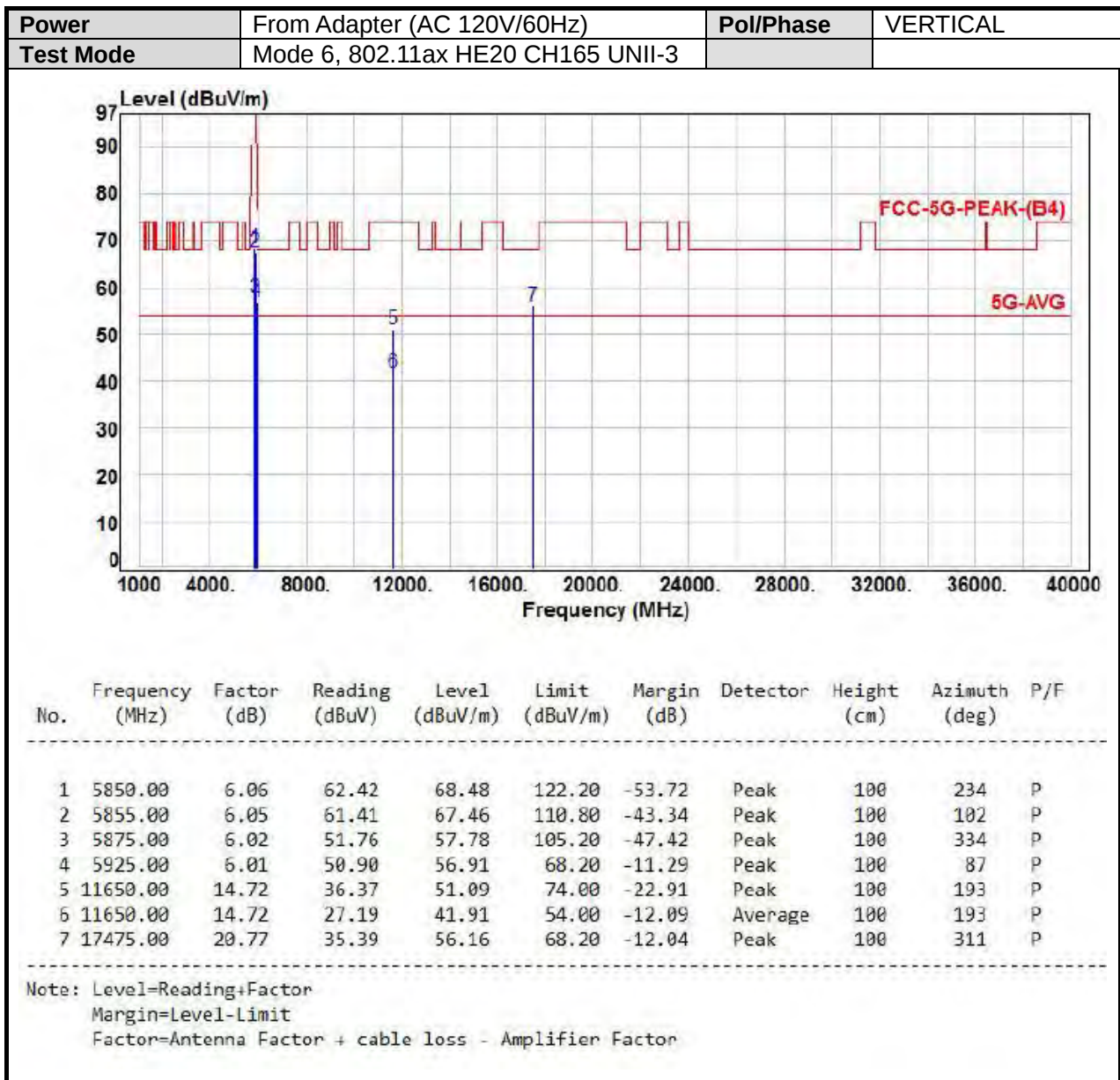
Power	From Adapter (AC 120V/60Hz)	Pol/Phase	VERTICAL
Test Mode	Mode 6, 802.11ax HE20 CH157 UNII-3		

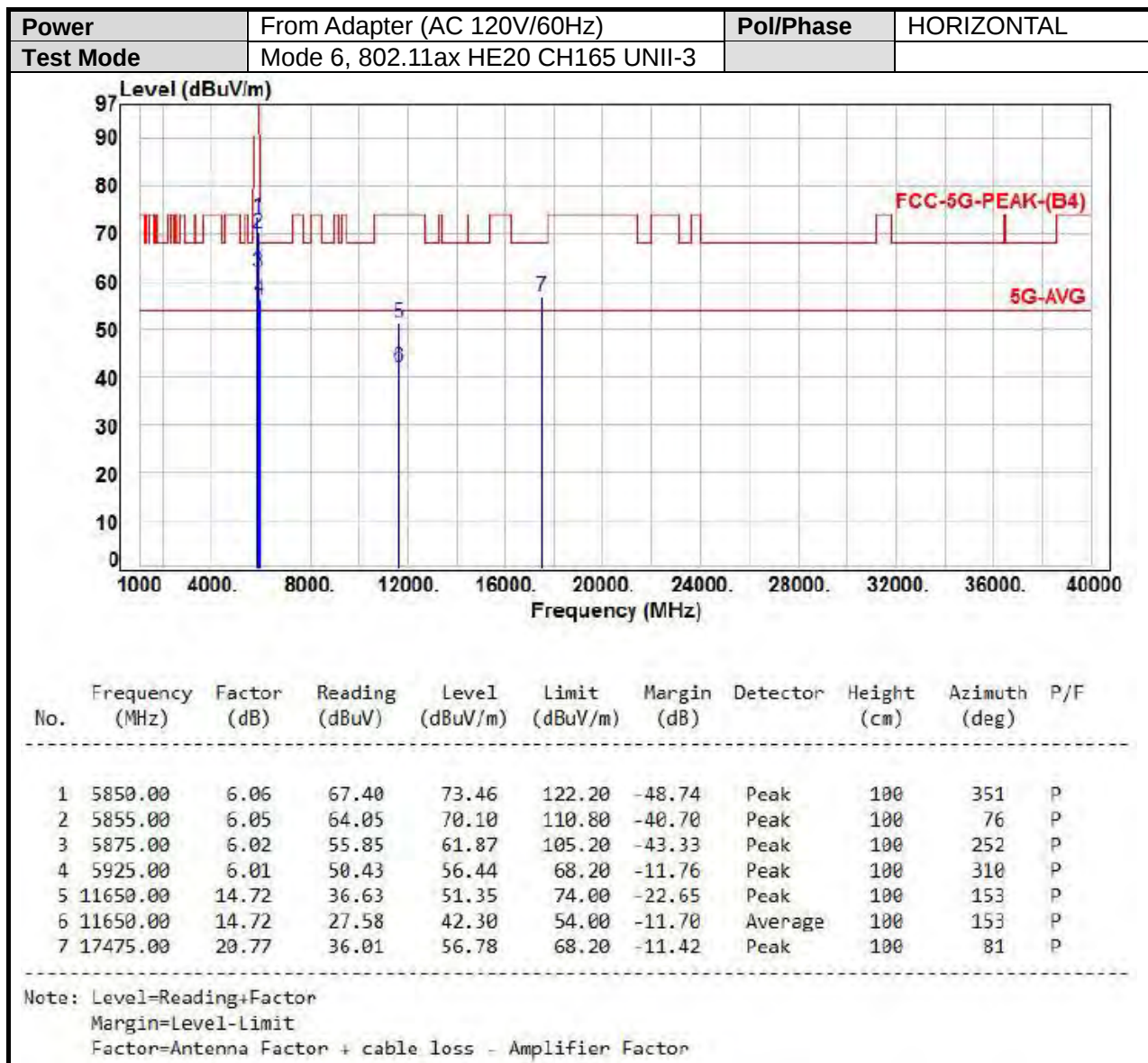


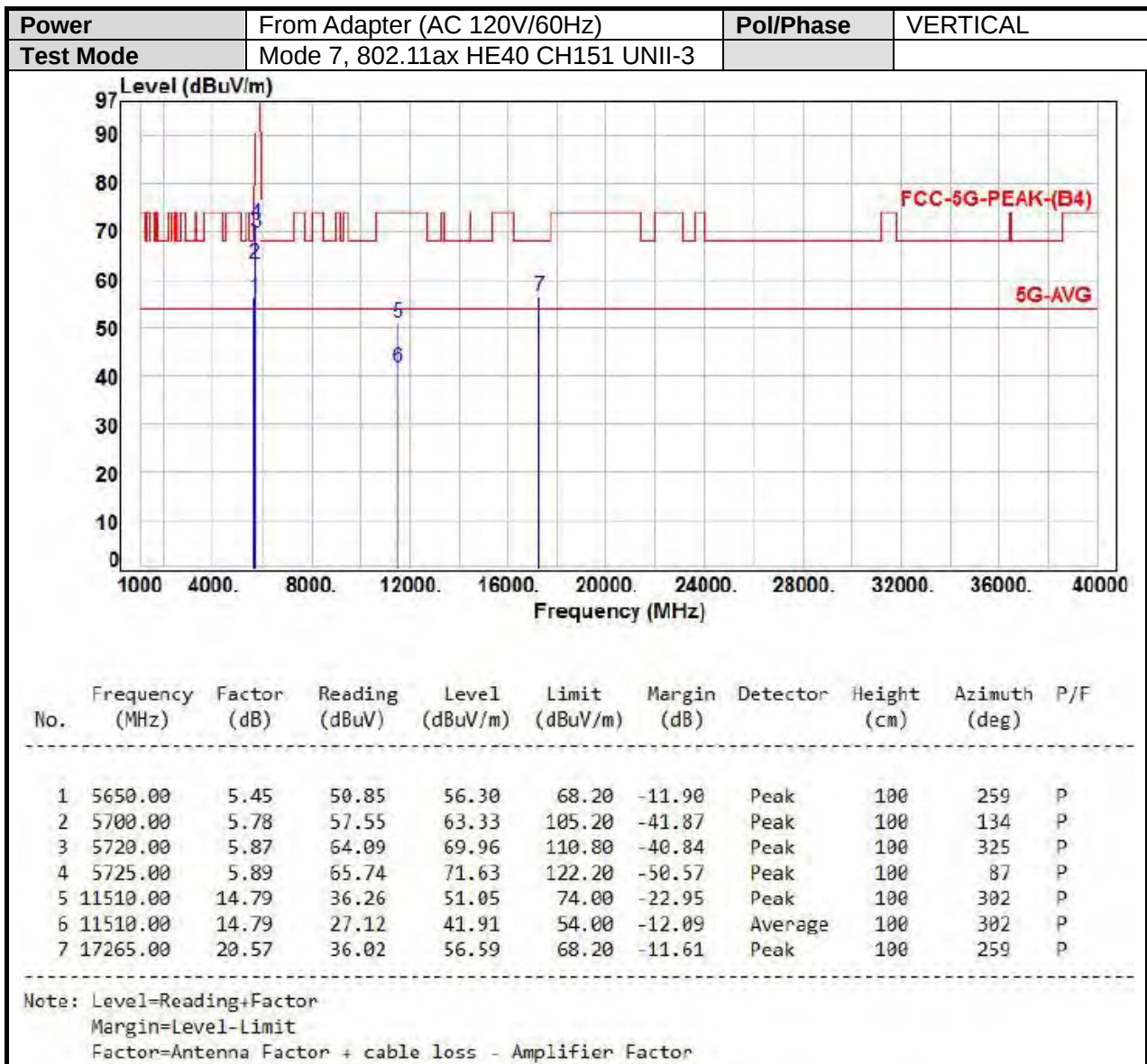
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	5.45	50.68	56.13	68.20	-12.07	Peak	100	208	P
2	5700.00	5.78	51.67	57.45	105.20	-47.75	Peak	100	152	P
3	5720.00	5.87	51.24	57.11	110.80	-53.69	Peak	100	310	P
4	5725.00	5.89	52.13	58.02	122.20	-64.18	Peak	100	207	P
5	5850.00	6.06	50.36	56.42	122.20	-65.78	Peak	100	87	P
6	5855.00	6.05	51.13	57.18	110.80	-53.62	Peak	100	183	P
7	5875.00	6.02	50.89	56.91	105.20	-48.29	Peak	100	296	P
8	5925.00	6.01	50.19	56.20	68.20	-12.00	Peak	100	359	P
9	11570.00	14.80	37.33	52.13	74.00	-21.87	Peak	100	101	P
10	11570.00	14.80	27.80	42.60	54.00	-11.40	Average	100	101	P
11	17355.00	20.69	35.12	55.81	68.20	-12.39	Peak	100	81	P

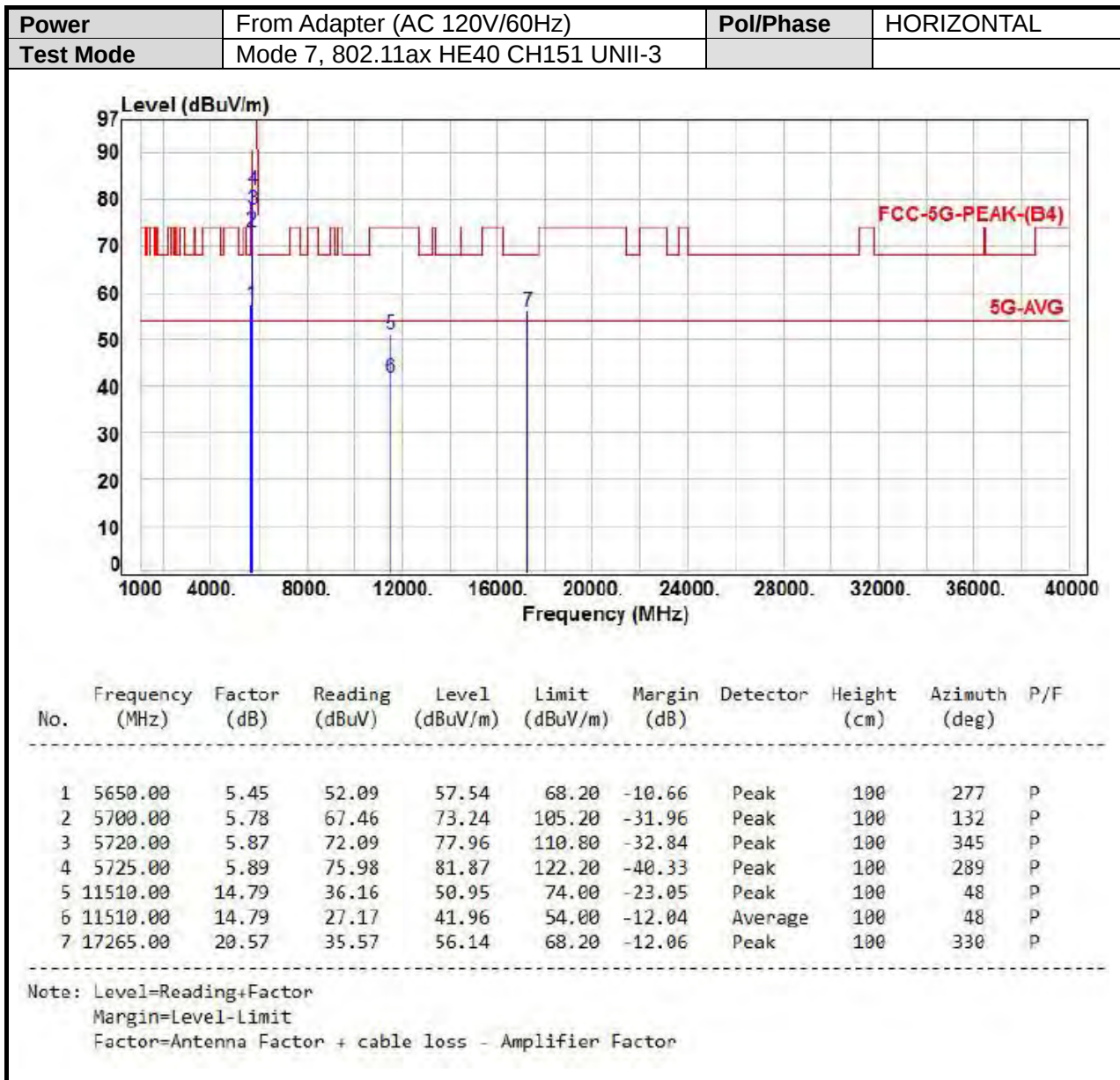
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

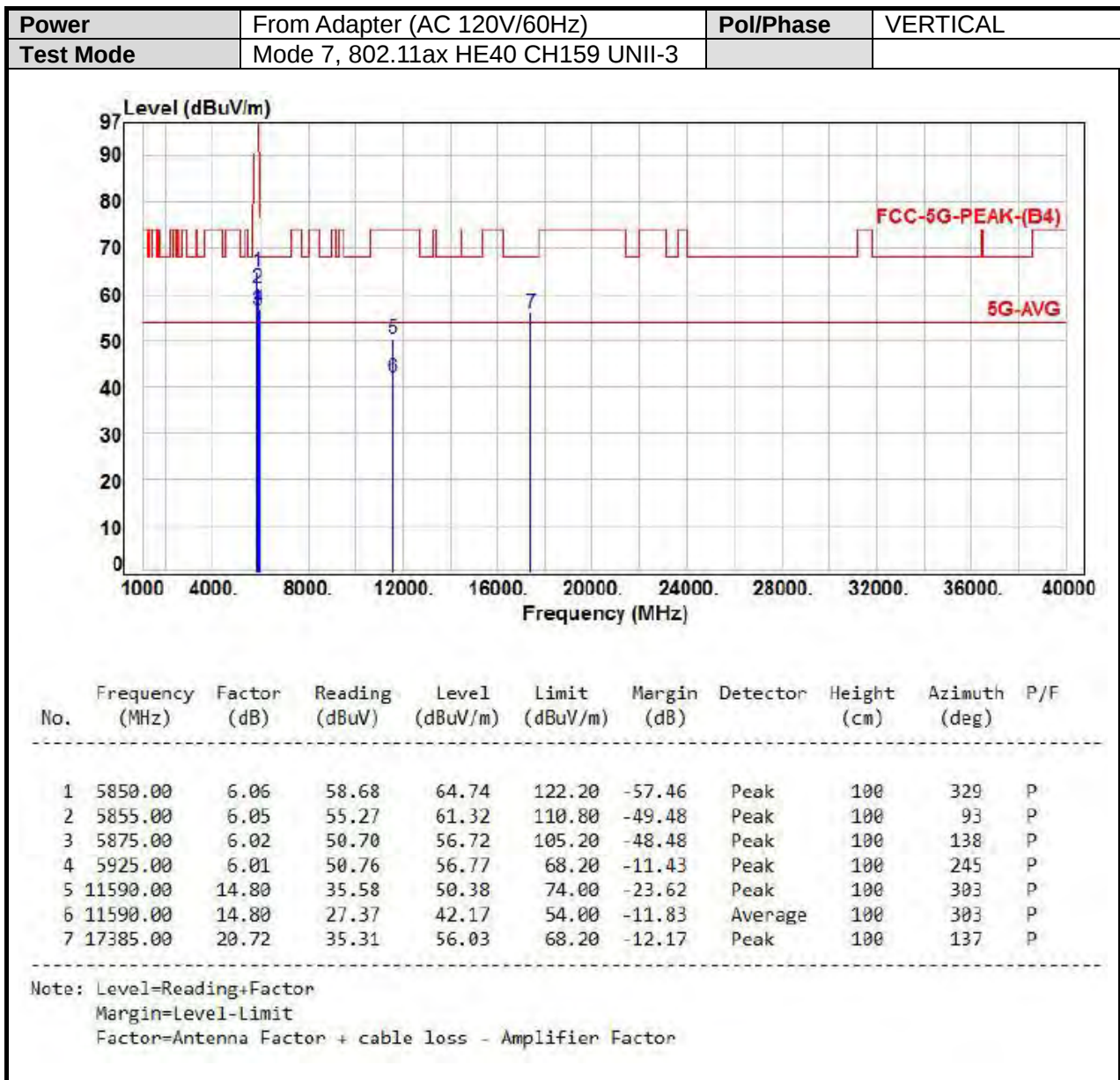


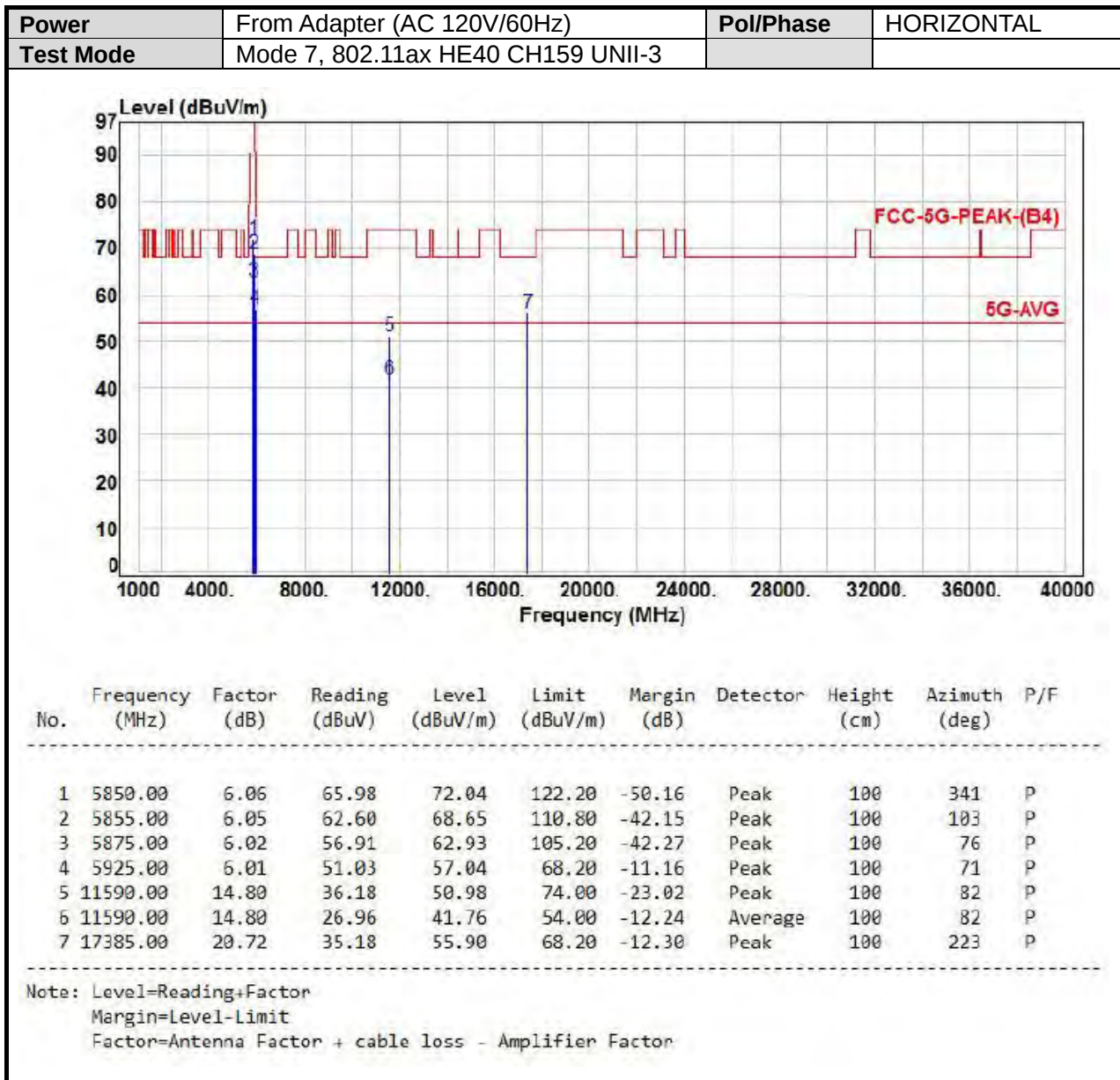














6.7. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. On Time, Duty Cycle and Measurement methods

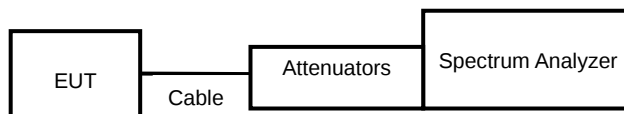
7.1. Test Limit

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

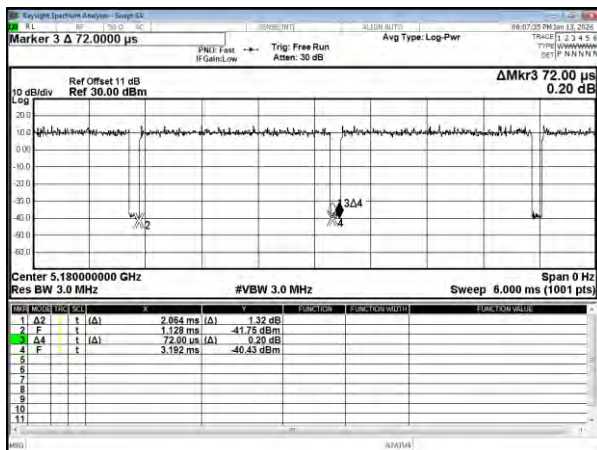
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a	2.064	2.136	96.63%
802.11ax HE20	1.494	1.656	90.22%
802.11ax HE40	0.777	0.837	92.83%

7.5. Measurement Methods

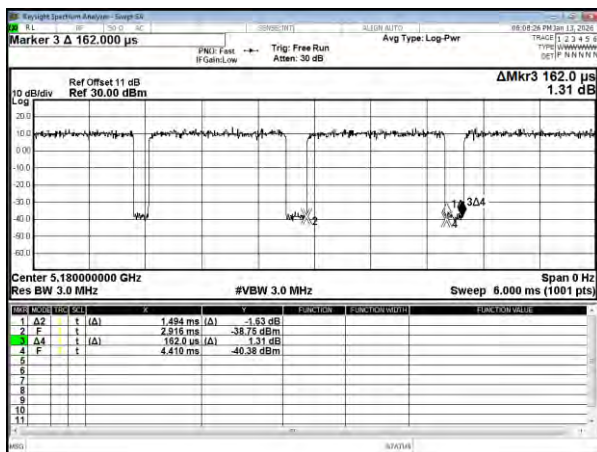
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v02r01, Sections G and H



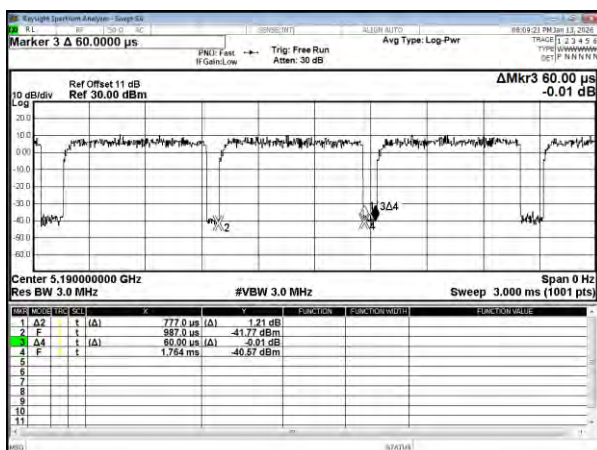
Modulation Type: 802.11a (6Mbps)



Modulation Type: 802.11ax HE20



Modulation Type: 802.11ax HE40





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

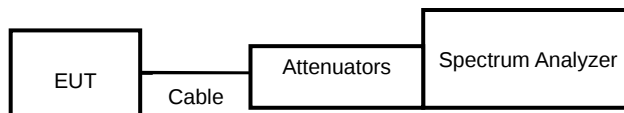
FCC §15.407

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

8.2. Test Procedure

Reference to 789033 D02 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

In the 5.8GHz Band

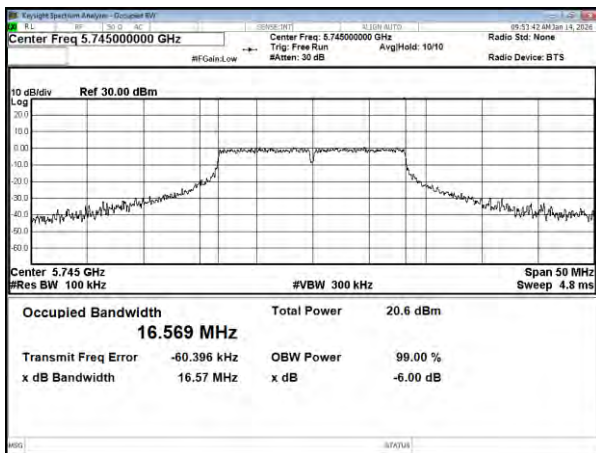
Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
802.11a	149	5745	16.57	0.50
	157	5785	16.40	0.50
	165	5825	16.57	0.50
802.11ax HE20	149	5745	19.05	0.50
	157	5785	18.71	0.50
	165	5825	18.95	0.50
802.11ax HE40	155	5755	37.98	0.50
	159	5795	37.13	0.50

In the 5.8GHz Band

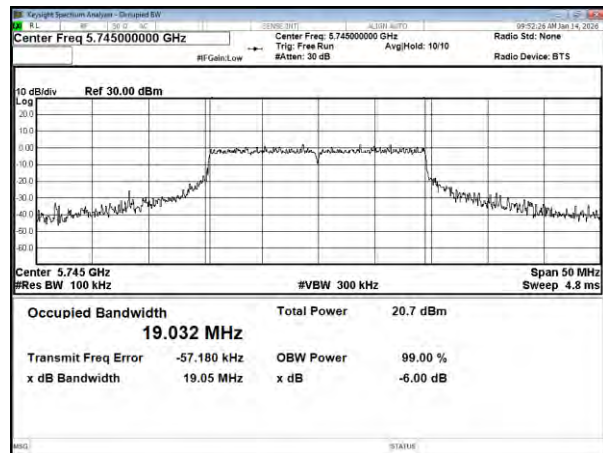
Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11a	149	5745	16.70
	157	5785	16.91
	165	5825	16.90
802.11ax HE20	149	5745	19.24
	157	5785	19.12
	165	5825	19.14
802.11ax HE40	155	5755	38.01
	159	5795	38.04



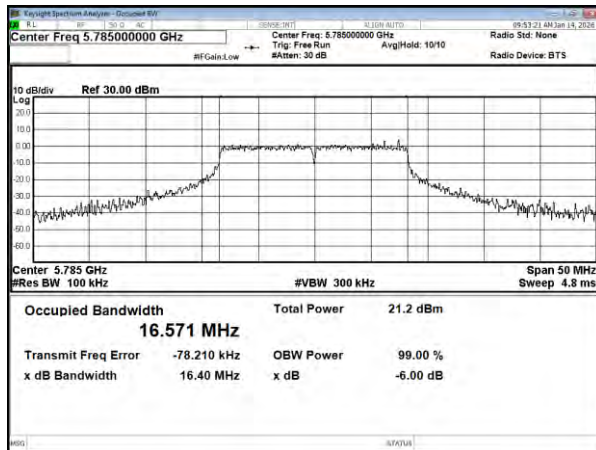
6dB Bandwidth
Modulation Type: 802.11a
CH149



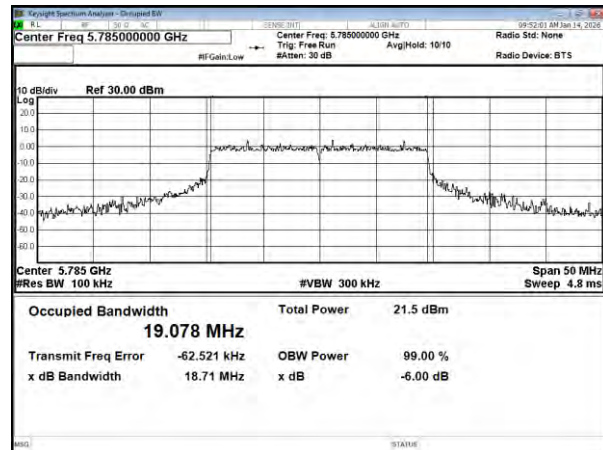
Modulation Type: 802.11ax, HE20
CH149



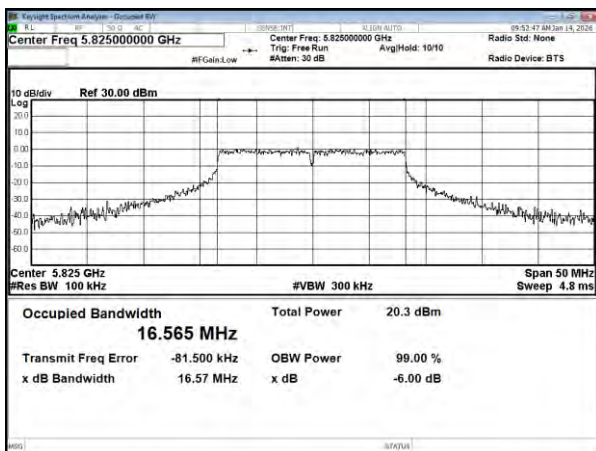
CH157



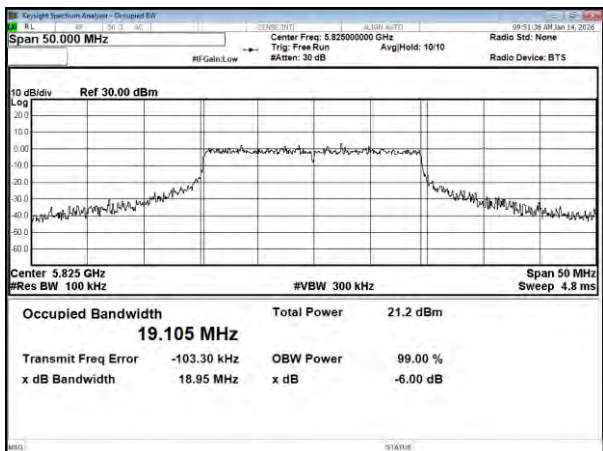
CH157



CH165

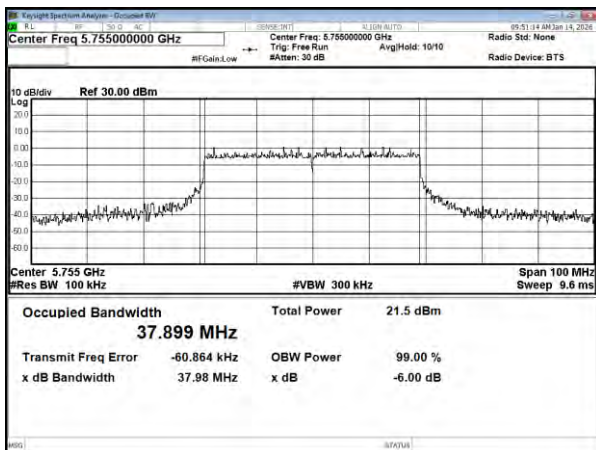


CH165

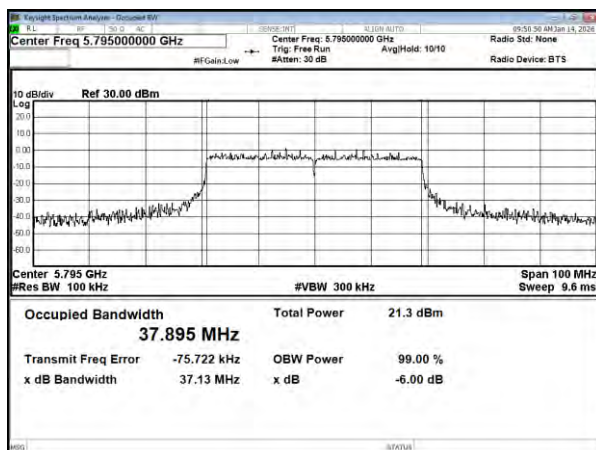




Modulation Type: 802.11ax, HE40
CH151

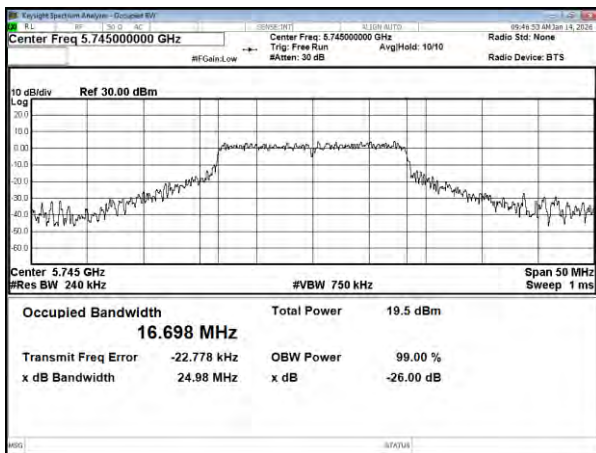


CH159

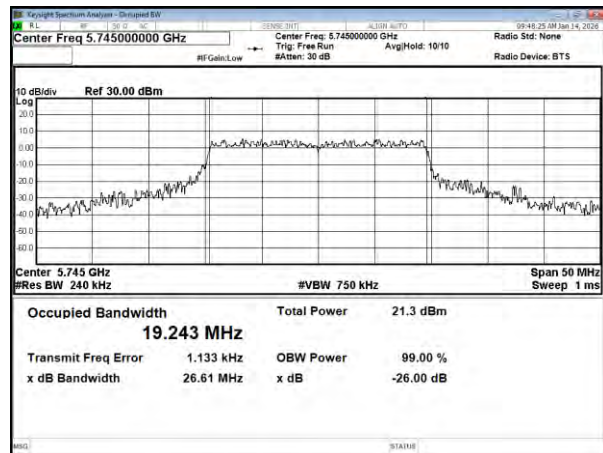




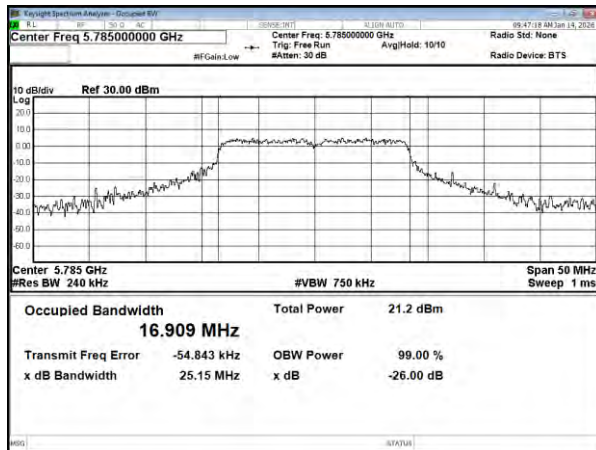
99% Occupied Bandwidth
Modulation Type: 802.11a
CH149



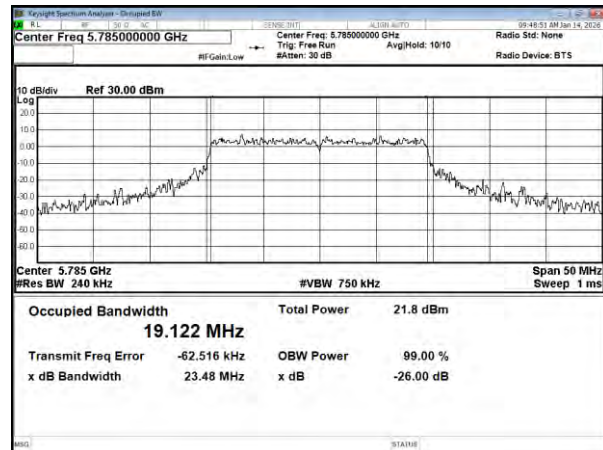
Modulation Type: 802.11ax, HE20
CH149



CH157



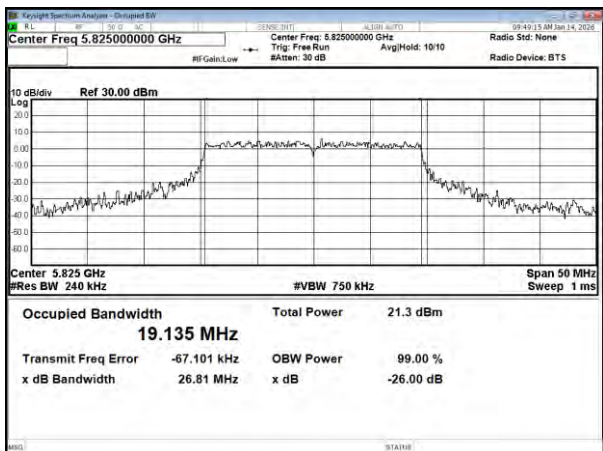
CH157



CH165

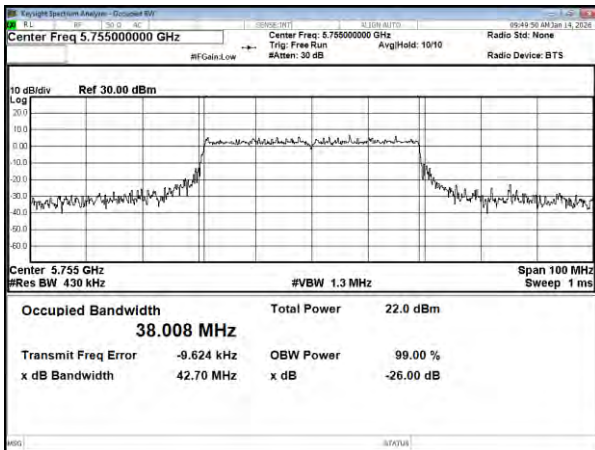


CH165

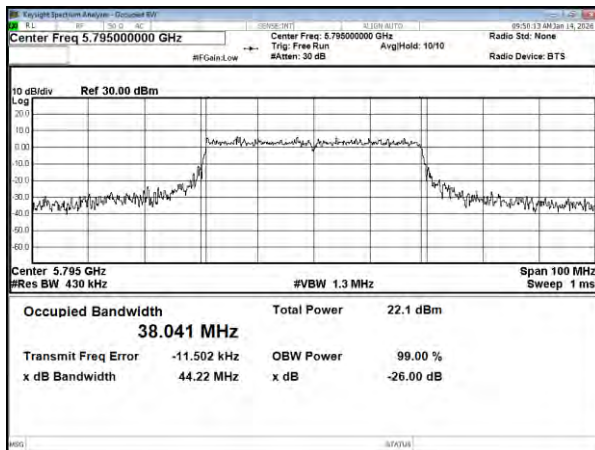




Modulation Type: 802.11ax, HE40
CH151



CH159





9. 26dB Bandwidth & 99% Occupied Bandwidth

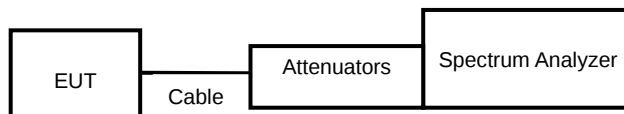
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



**9.4. Test Result and Data****26dB Bandwidth (MHz)
In the 5.2G Band**

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	36	5180	24.76
	44	5220	23.99
	48	5240	24.79
802.11ax HE20	36	5180	25.9
	44	5220	24.23
	48	5240	24.51
802.11ax HE40	38	5190	44.59
	46	5230	43.45

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	52	5260	24.09
	60	5300	26.15
	64	5320	23.6
802.11ax HE20	52	5260	23.91
	60	5300	27.43
	64	5320	25.22
802.11ax HE40	54	5270	43
	62	5310	43.15

In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
802.11a	100	5500	24.37
	116	5580	24.41
	140	5700	24.43
802.11ax HE20	100	5500	23.35
	116	5580	25.99
	140	5700	22.7
802.11ax HE40	102	5510	44.93
	110	5550	44.75
	134	5670	43.53

**99% Bandwidth(MHz)
In the 5.2G Band**

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11a	36	5180	16.85
	44	5220	16.74
	48	5240	16.66
802.11ax HE20	36	5180	19.08
	44	5220	19.07
	48	5240	19.03
802.11ax HE40	38	5190	38.05
	46	5230	37.87

In the 5.3G Band

Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11a	52	5260	16.74
	60	5300	16.86
	64	5320	16.73
802.11ax HE20	52	5260	19.06
	60	5300	19.03
	64	5320	19.08
802.11ax HE40	54	5270	37.90
	62	5310	37.87

In the 5.5G Band

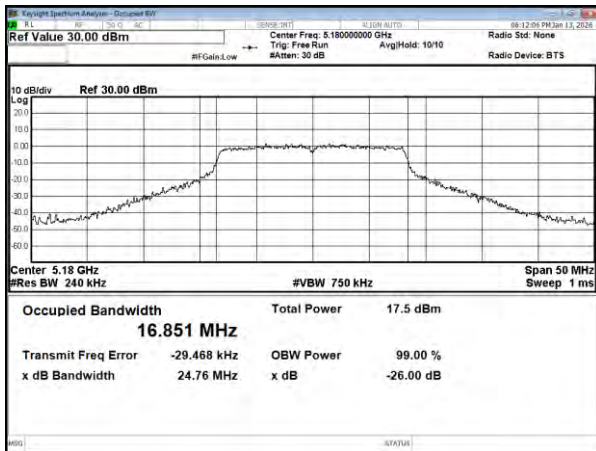
Mode	Channel	Frequency (MHz)	99% Bandwidth(MHz)
802.11a	100	5500	16.73
	116	5580	16.97
	140	5700	16.86
802.11ax HE20	100	5500	19.16
	116	5580	19.16
	140	5700	19.10
802.11ax HE40	102	5510	38.05
	110	5550	38.04
	134	5670	38.05



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

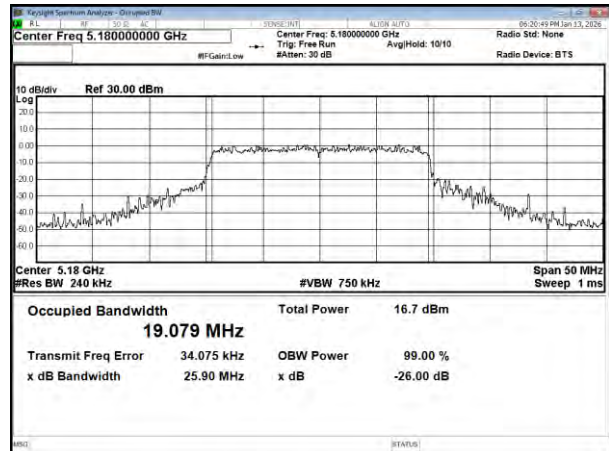
Modulation Standard: 802.11a

CH36

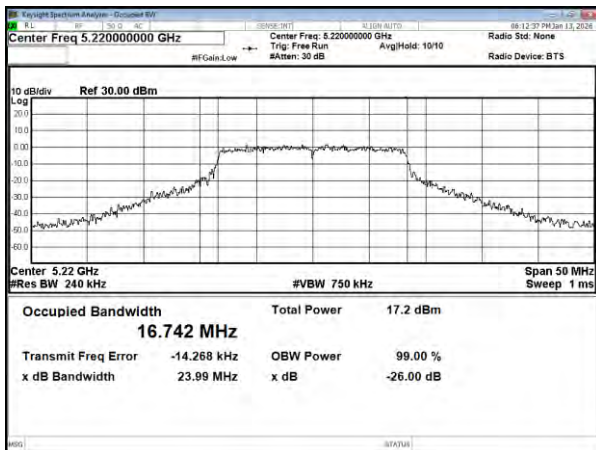


Modulation Standard: 802.11 ax HE20

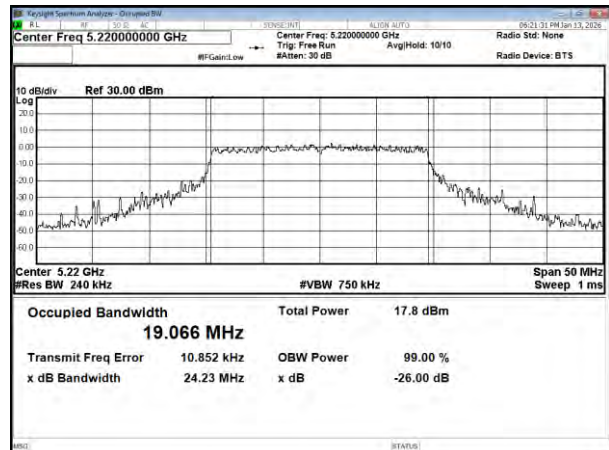
CH36



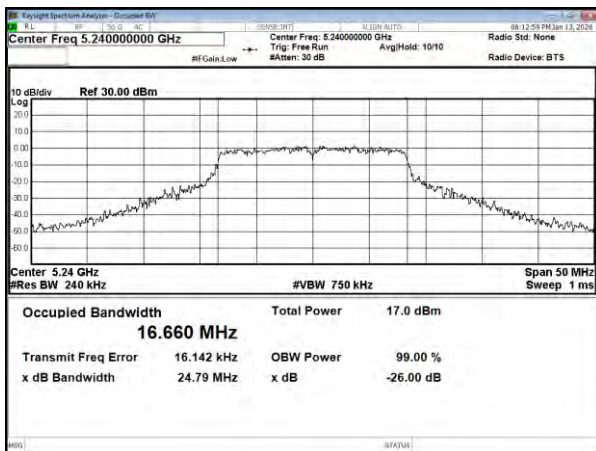
CH44



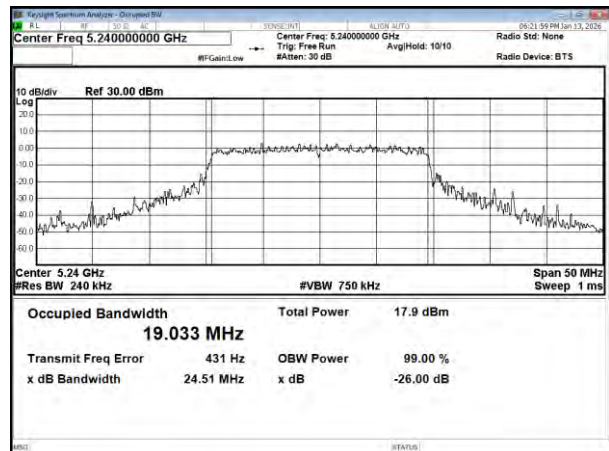
CH44



CH48

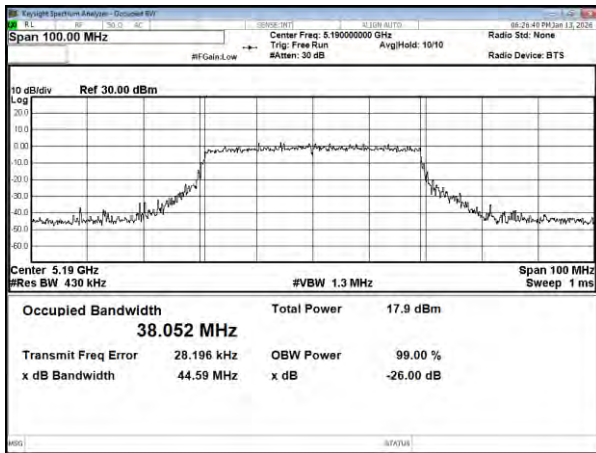


CH48

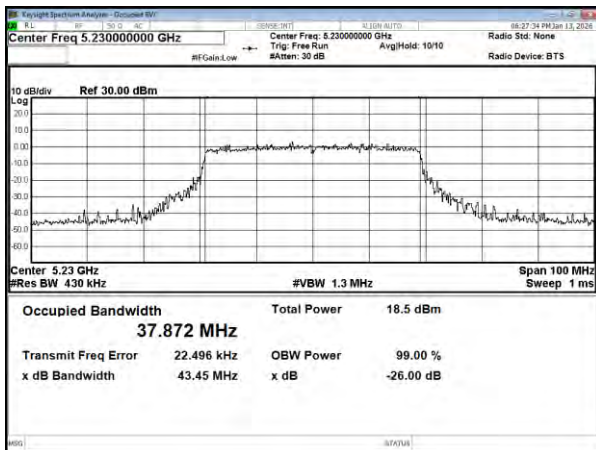




Modulation Standard: 802.11 ax HE40
CH38



CH46

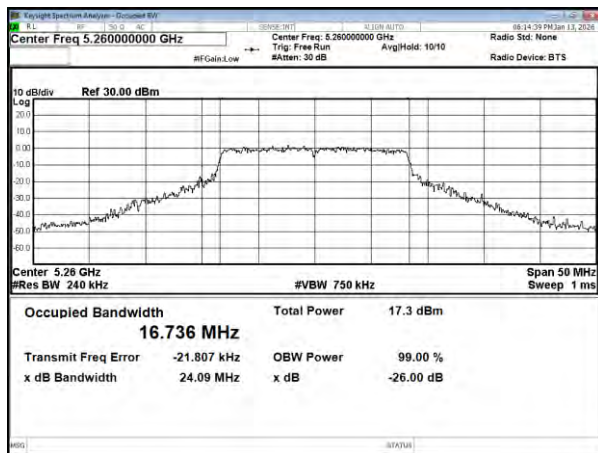




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2A

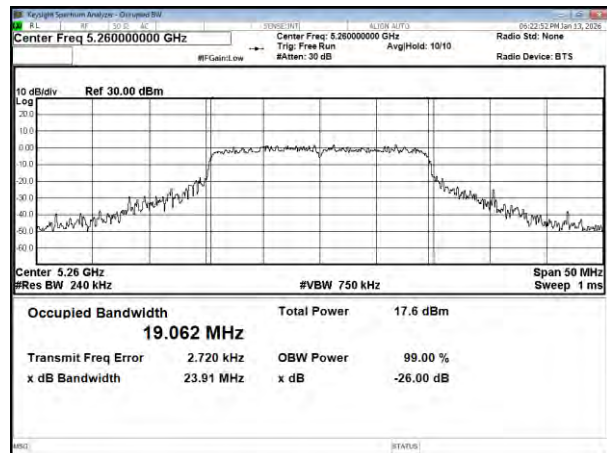
Modulation Standard: 802.11a

CH52

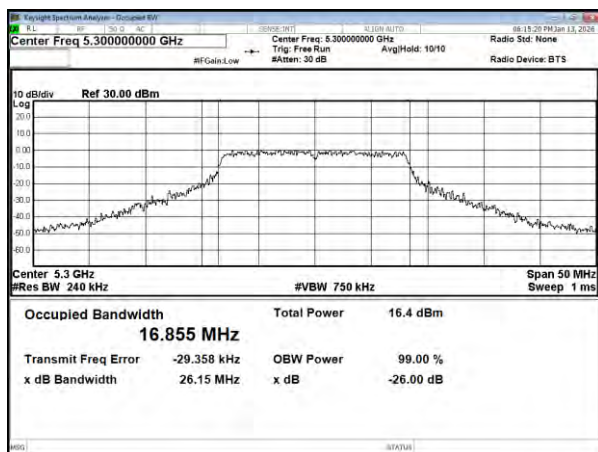


Modulation Standard: 802.11 ax HE20

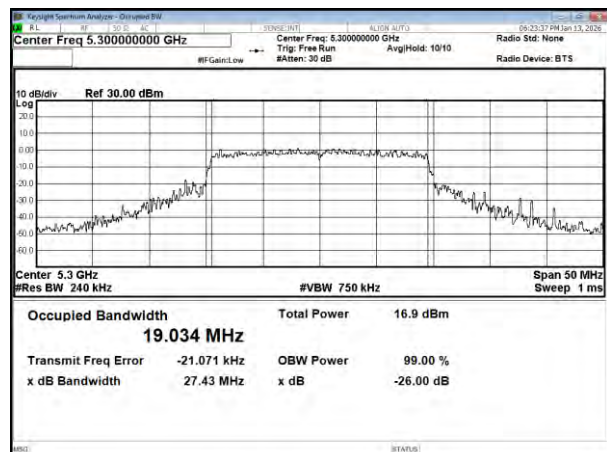
CH52



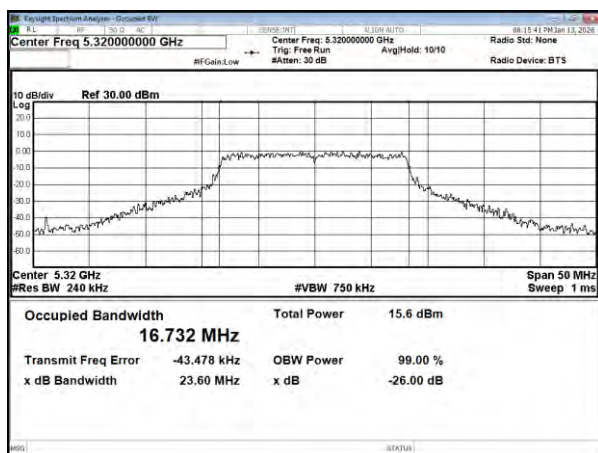
CH60



CH60



CH64



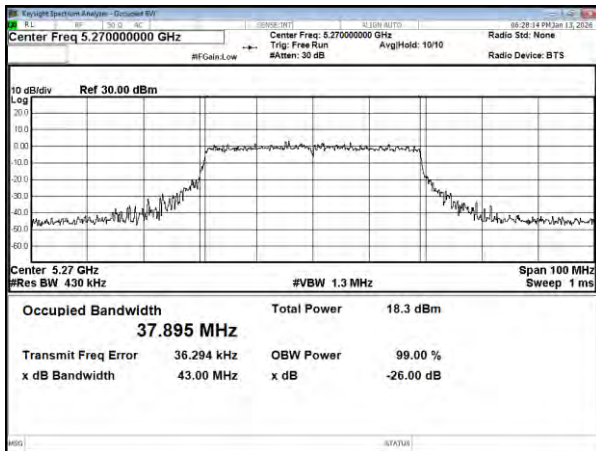
CH64



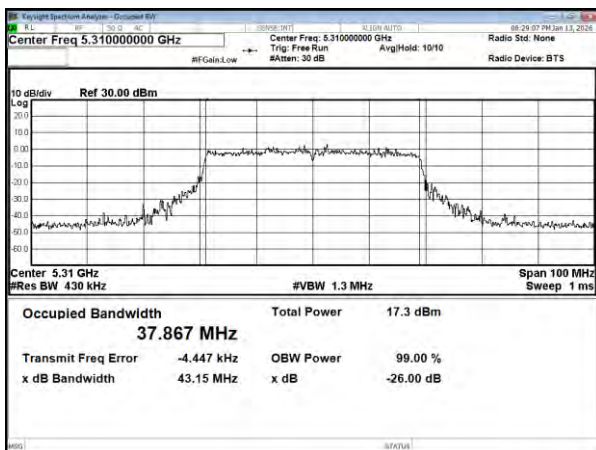


Modulation Standard: 802.11 ax HE40

CH54



CH62

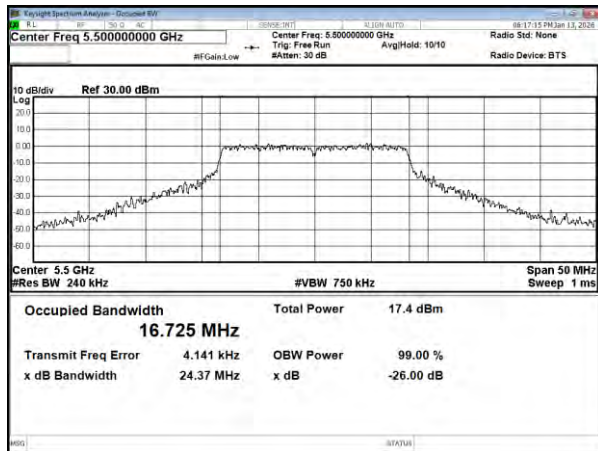




26dB Bandwidth & 99% Occupied Bandwidth, UNII-2C

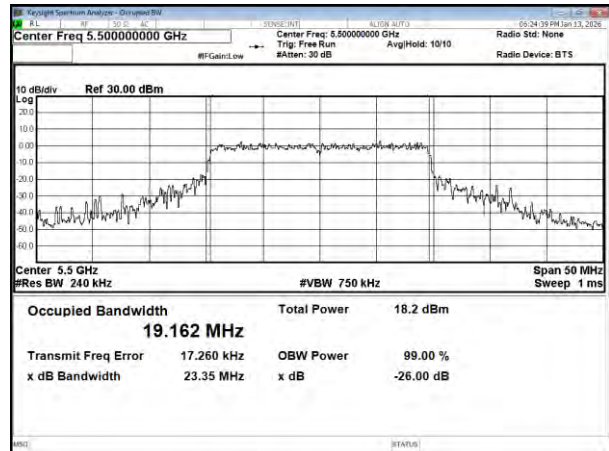
Modulation Standard: 802.11a

CH100

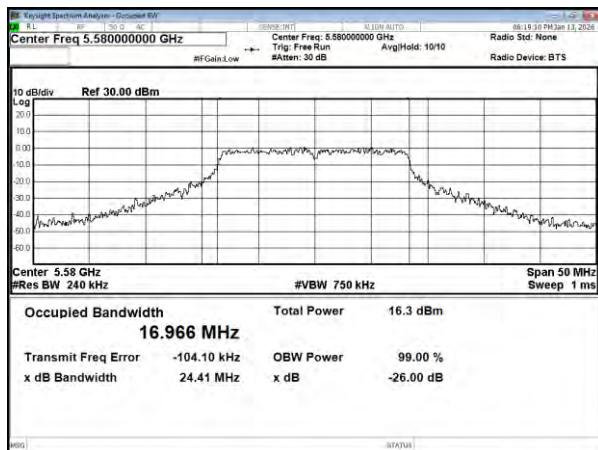


Modulation Standard: 802.11 ax HE20

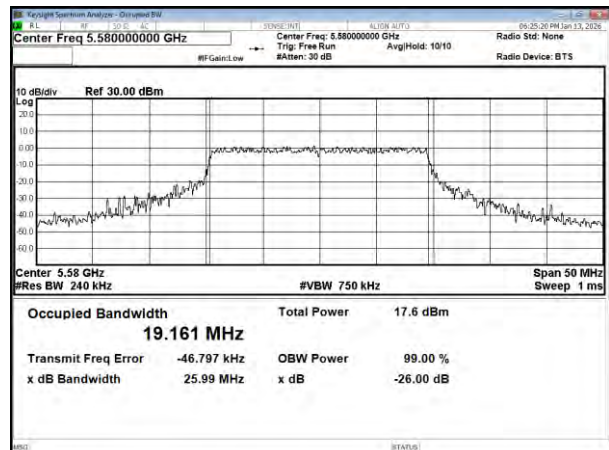
CH100



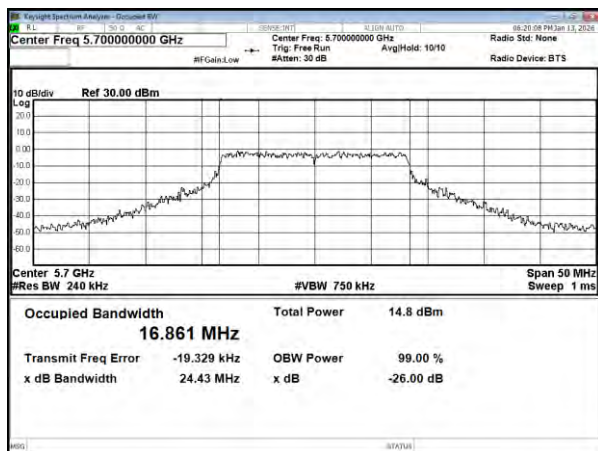
CH116



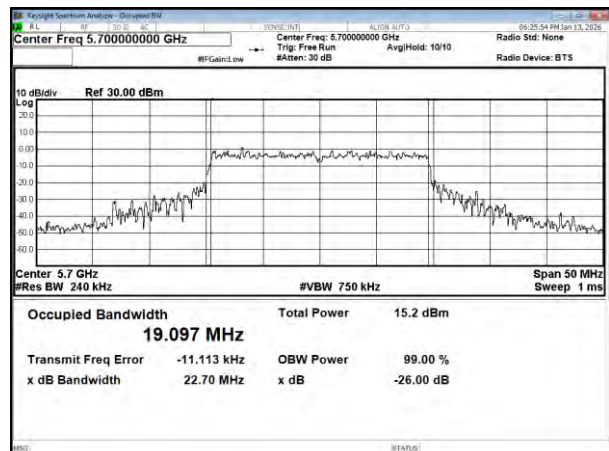
CH116



CH140



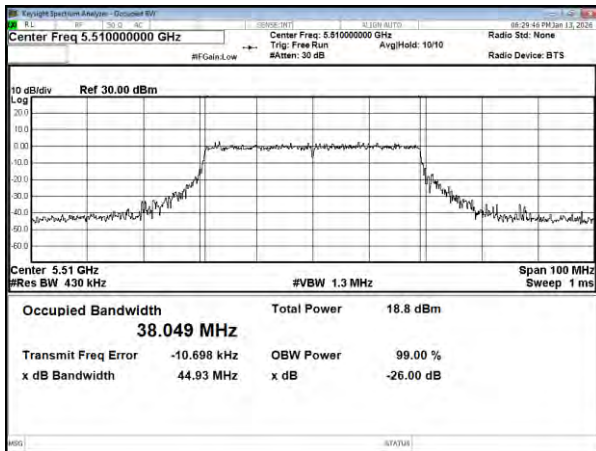
CH140



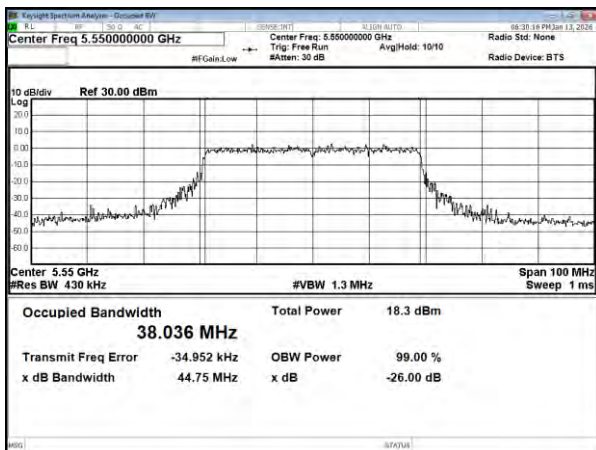


Modulation Standard: 802.11 ax HE40

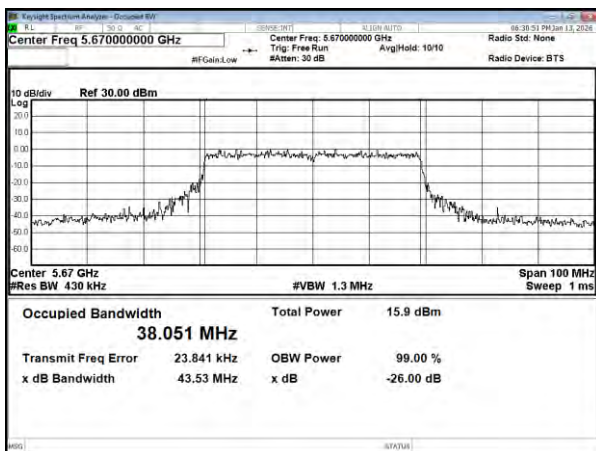
CH102



CH110



CH134





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 exceed 125 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.

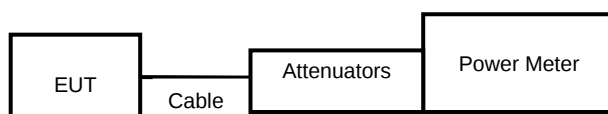
10.2.Test Procedure

According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 12.4

The transmitter output is connected to a power meter.

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

10.3.Test Setup Layout



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

Power Setting	Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
14	11a	6 Mbps	36	5180	10.48	11.169	24.00
14	11a	6 Mbps	44	5220	11.31	13.521	24.00
14	11a	6 Mbps	48	5240	11.41	13.836	24.00
14	11n HT20	MCS 0	36	5180	10.310	10.740	24.00
14	11n HT20	MCS 0	44	5220	11.100	12.882	24.00
14	11n HT20	MCS 0	48	5240	10.990	12.560	24.00
14	11n HT40	MCS 0	38	5190	10.200	10.471	24.00
14	11n HT40	MCS 0	46	5230	11.060	12.764	24.00
14	11ac VHT20	NSS1-MCS0	36	5180	10.190	10.447	24.00
14	11ac VHT20	NSS1-MCS0	44	5220	11.130	12.972	24.00
14	11ac VHT20	NSS1-MCS0	48	5240	11.020	12.647	24.00
14	11ac VHT40	NSS1-MCS0	38	5190	10.050	10.116	24.00
14	11ac VHT40	NSS1-MCS0	46	5230	11.130	12.972	24.00
14	11ax HE20	NSS1-MCS0	36	5180	10.650	11.614	24.00
14	11ax HE20	NSS1-MCS0	40	5200	11.490	14.093	24.00
14	11ax HE20	NSS1-MCS0	48	5240	11.840	15.276	24.00
14	11ax HE40	NSS1-MCS0	38	5190	10.720	11.803	24.00
14	11ax HE40	NSS1-MCS0	46	5230	11.330	13.583	24.00

In the 5.3G Band

Power Setting	Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
14	11a	6 Mbps	52	5260	11.360	13.677	24.00
14	11a	6 Mbps	60	5300	10.490	11.194	24.00
14	11a	6 Mbps	64	5320	9.960	9.908	24.00
14	11n HT20	MCS 0	52	5260	11.370	13.709	24.00
14	11n HT20	MCS 0	60	5300	10.590	11.455	24.00
14	11n HT20	MCS 0	64	5320	10.150	10.351	24.00
14	11n HT40	MCS 0	54	5270	10.850	12.162	24.00
14	11n HT40	MCS 0	62	5310	9.430	8.770	24.00
14	11ac VHT20	NSS1-MCS0	52	5260	11.440	13.932	24.00
14	11ac VHT20	NSS1-MCS0	60	5300	10.700	11.749	24.00
14	11ac VHT20	NSS1-MCS0	64	5320	10.090	10.209	24.00
14	11ac VHT40	NSS1-MCS0	54	5270	10.980	12.531	24.00
14	11ac VHT40	NSS1-MCS0	62	5310	9.340	8.590	24.00
14	11ax HE20	NSS1-MCS0	52	5260	11.680	14.723	24.00
14	11ax HE20	NSS1-MCS0	60	5300	10.950	12.445	24.00
14	11ax HE20	NSS1-MCS0	64	5320	10.510	11.246	24.00
14	11ax HE40	NSS1-MCS0	54	5270	11.200	13.183	24.00
14	11ax HE40	NSS1-MCS0	62	5310	9.970	9.931	24.00



In the 5.5G Band

Power Setting	Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
14	11a	6 Mbps	100	5500	11.970	15.740	24.00
14	11a	6 Mbps	116	5580	11.110	12.912	24.00
14	11a	6 Mbps	140	5700	9.440	8.790	24.00
14	11n HT20	MCS 0	100	5500	11.790	15.101	24.00
14	11n HT20	MCS 0	116	5580	10.700	11.749	24.00
14	11n HT20	MCS 0	140	5700	9.320	8.551	24.00
14	11n HT40	MCS 0	102	5510	11.280	13.428	24.00
14	11n HT40	MCS 0	110	5550	10.560	11.376	24.00
14	11n HT40	MCS 0	134	5670	8.430	6.966	24.00
14	11ac VHT20	NSS1-MCS0	100	5500	11.820	15.205	24.00
14	11ac VHT20	NSS1-MCS0	116	5580	10.970	12.503	24.00
14	11ac VHT20	NSS1-MCS0	140	5700	8.460	7.015	24.00
14	11ac VHT40	NSS1-MCS0	102	5510	11.290	13.459	24.00
14	11ac VHT40	NSS1-MCS0	110	5550	10.580	11.429	24.00
14	11ac VHT40	NSS1-MCS0	134	5670	8.550	7.161	24.00
14	11ax HE20	NSS1-MCS0	100	5500	11.990	15.812	24.00
14	11ax HE20	NSS1-MCS0	116	5580	11.120	12.942	24.00
14	11ax HE20	NSS1-MCS0	140	5700	9.480	8.872	24.00
14	11ax HE40	NSS1-MCS0	102	5510	12.020	15.922	24.00
14	11ax HE40	NSS1-MCS0	110	5550	11.590	14.421	24.00
14	11ax HE40	NSS1-MCS0	134	5670	9.120	8.166	24.00

In the 5.8G Band

Power Setting	Modulation Type	Data Rate	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (mW)	FCC Limit (dBm)
Default	11a	6 Mbps	149	5745	15.020	31.769	30.00
Default	11a	6 Mbps	157	5785	15.470	35.237	30.00
Default	11a	6 Mbps	165	5825	15.110	32.434	30.00
Default	11n HT20	MCS 0	149	5745	14.370	27.353	30.00
Default	11n HT20	MCS 0	157	5785	14.700	29.512	30.00
Default	11n HT20	MCS 0	165	5825	14.110	25.763	30.00
Default	11n HT40	MCS 0	151	5755	14.330	27.102	30.00
Default	11n HT40	MCS 0	159	5795	14.090	25.645	30.00
Default	11ac VHT20	NSS1-MCS0	149	5745	14.030	25.293	30.00
Default	11ac VHT20	NSS1-MCS0	157	5785	14.070	25.527	30.00
Default	11ac VHT20	NSS1-MCS0	165	5825	13.590	22.856	30.00
Default	11ac VHT40	NSS1-MCS0	151	5755	14.340	27.164	30.00
Default	11ac VHT40	NSS1-MCS0	159	5795	14.180	26.182	30.00
Default	11ax HE20	NSS1-MCS0	149	5745	14.780	30.061	30.00
Default	11ax HE20	NSS1-MCS0	157	5785	15.300	33.884	30.00
Default	11ax HE20	NSS1-MCS0	165	5825	14.610	28.907	30.00
Default	11ax HE40	NSS1-MCS0	151	5755	14.860	30.620	30.00
Default	11ax HE40	NSS1-MCS0	159	5795	14.640	29.107	30.00



11. Power Spectral Density

11.1. Test Limit

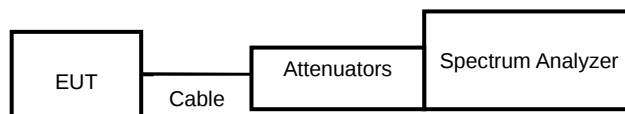
PSD:

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 D02 General UNII Test Procedures New Rules v02r01

11.3. Test Setup Layout



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

Modulation Type	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSS (dBm/MHz)	PPSS Limit (dBm/MHz)
11a	36	5180	-0.231	0.15	-0.081	11.00
11a	44	5220	0.335	0.15	0.485	11.00
11a	48	5240	0.497	0.15	0.647	11.00
11ax HE20	36	5180	-0.939	0.45	-0.489	11.00
11ax HE20	44	5220	-0.340	0.45	0.110	11.00
11ax HE20	48	5240	-0.214	0.45	0.236	11.00
11ax HE40	38	5190	-3.978	0.32	-3.658	11.00
11ax HE40	46	5230	-3.321	0.32	-3.001	11.00

In the 5.3G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSS (dBm/MHz)	PPSS Limit (dBm/MHz)
11a	52	5260	0.458	0.15	0.608	11.00
11a	60	5300	-0.369	0.15	-0.219	11.00
11a	64	5320	-0.918	0.15	-0.768	11.00
11ax HE20	52	5260	-0.311	0.45	0.139	11.00
11ax HE20	60	5300	-1.131	0.45	-0.681	11.00
11ax HE20	64	5320	-1.562	0.45	-1.112	11.00
11ax HE40	54	5270	-3.602	0.32	-3.282	11.00
11ax HE40	62	5310	-4.460	0.32	-4.140	11.00

In the 5.5G Band

Modulation Type	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)	Duty Cycle CF(dB)	Total Corr'd PPSS (dBm/MHz)	PPSS Limit (dBm/MHz)
11a	100	5500	0.157	0.15	0.307	11.00
11a	116	5580	-0.632	0.15	-0.482	11.00
11a	140	5700	-2.202	0.15	-2.052	11.00
11ax HE20	100	5500	-0.487	0.45	-0.037	11.00
11ax HE20	116	5580	-1.352	0.45	-0.902	11.00
11ax HE20	140	5700	-2.847	0.45	-2.397	11.00
11ax HE40	102	5510	-3.533	0.32	-3.213	11.00
11ax HE40	110	5550	-3.943	0.32	-3.623	11.00
11ax HE40	134	5670	-6.059	0.32	-5.739	11.00

In the 5.8G Band

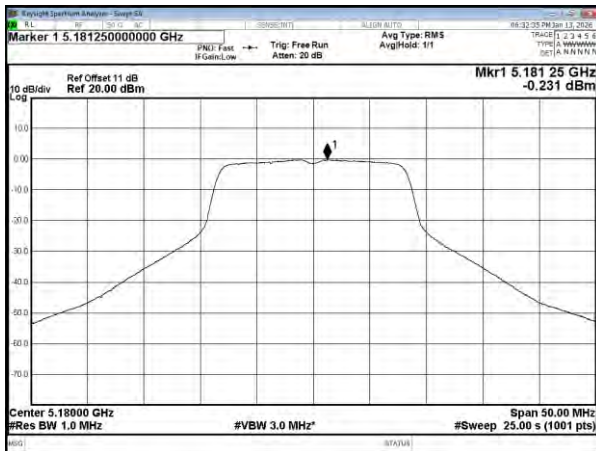
Modulation Type	CH	Freq. (MHz)	Meas PPSS (dBm/MHz)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PPSS (dBm/500kHz)	PPSS Limit (dBm/500kHz)
11a	149	5745	3.307	0.15	-3.010	0.447	30.00
11a	157	5785	3.678	0.15	-3.010	0.818	30.00
11a	165	5825	3.129	0.15	-3.010	0.269	30.00
11ax HE20	149	5745	2.528	0.45	-3.010	-0.032	30.00
11ax HE20	157	5785	2.971	0.45	-3.010	0.411	30.00
11ax HE20	165	5825	2.428	0.45	-3.010	-0.132	30.00
11ax HE40	151	5755	-0.368	0.32	-3.010	-3.058	30.00
11ax HE40	159	5795	-0.787	0.32	-3.010	-3.477	30.00



UNII-1

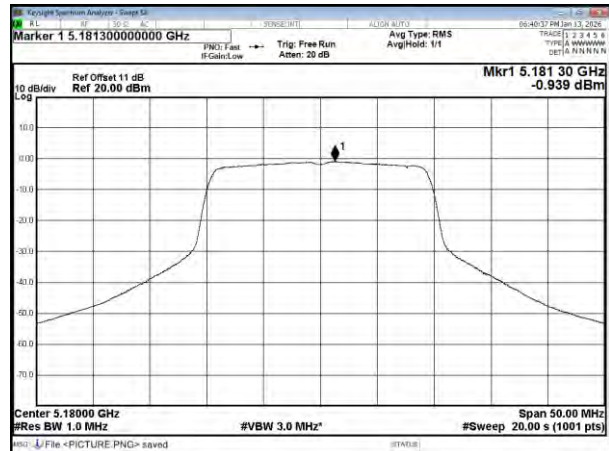
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CH36

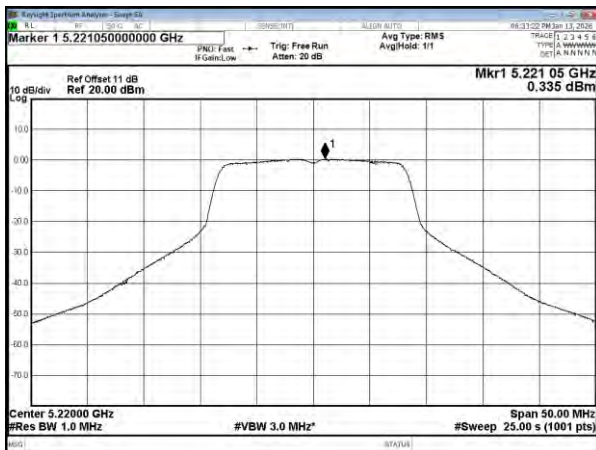


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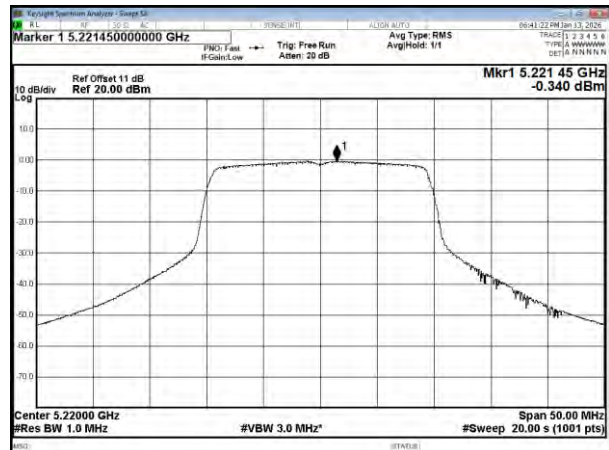
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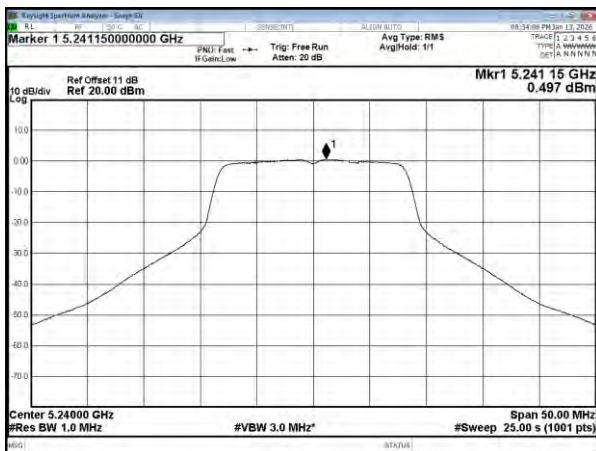
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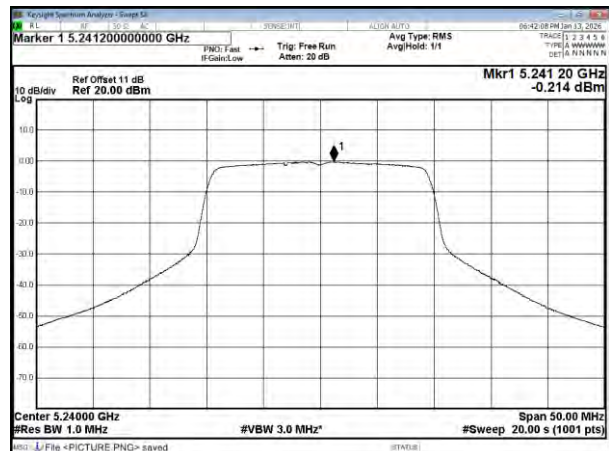
CH44



CH48

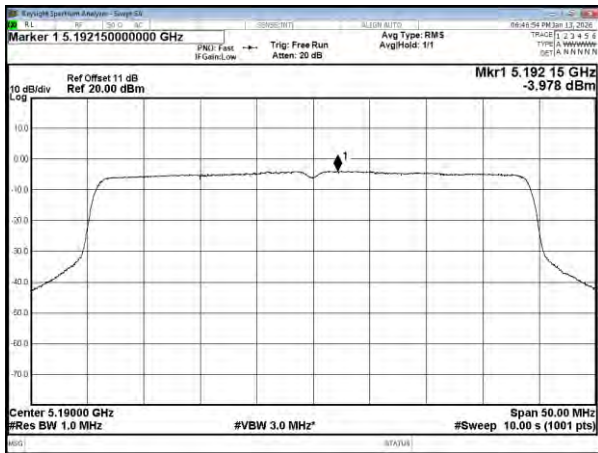


CH48

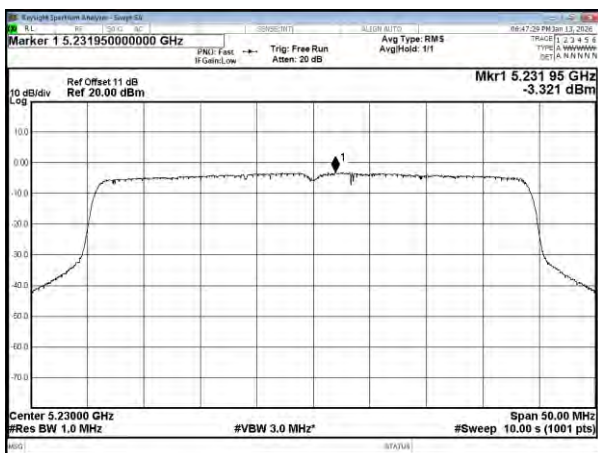




Modulation Standard: 802.11 ax HE40
CH38



CH46

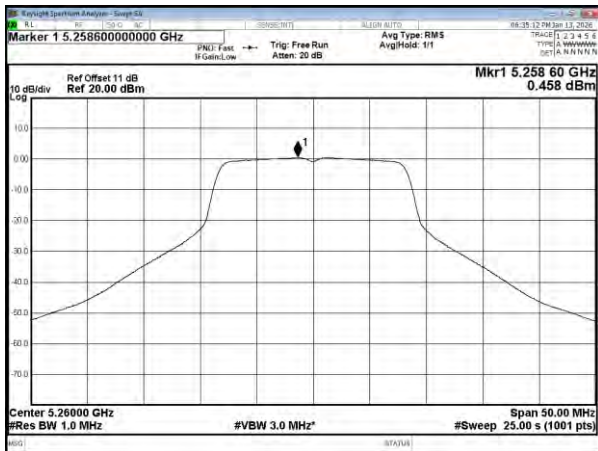




UNII-2A

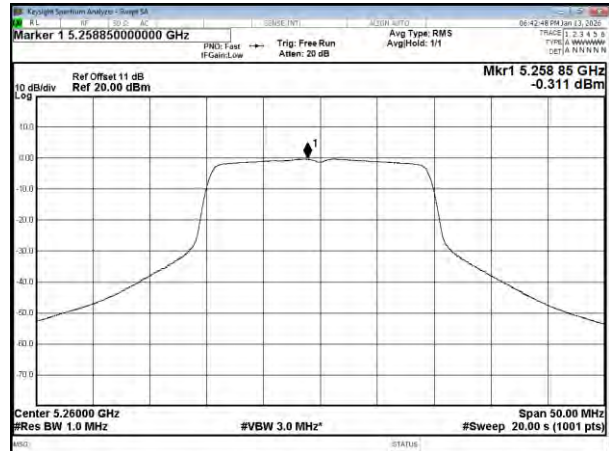
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CH52

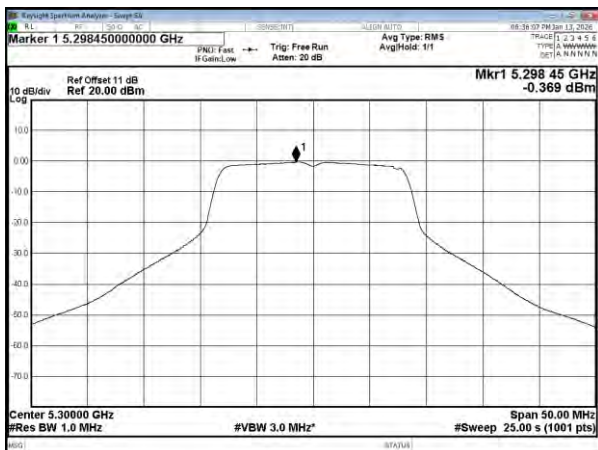


Modulation Standard: 802.11 ax HE20

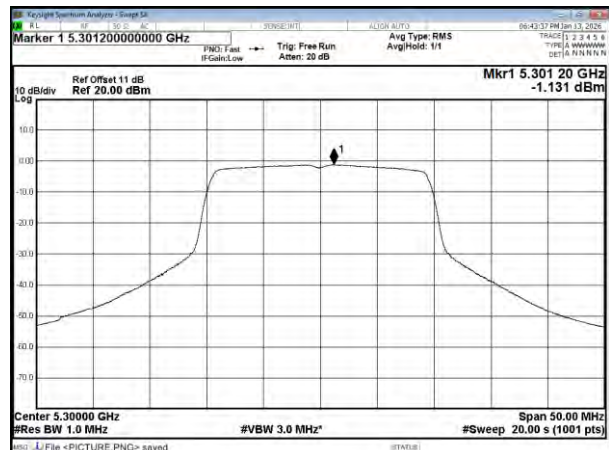
CH52



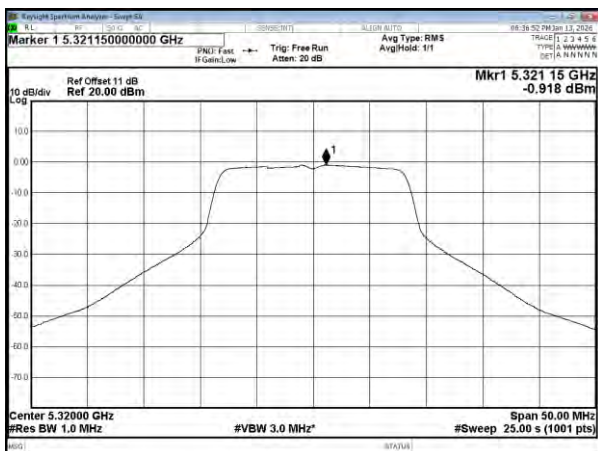
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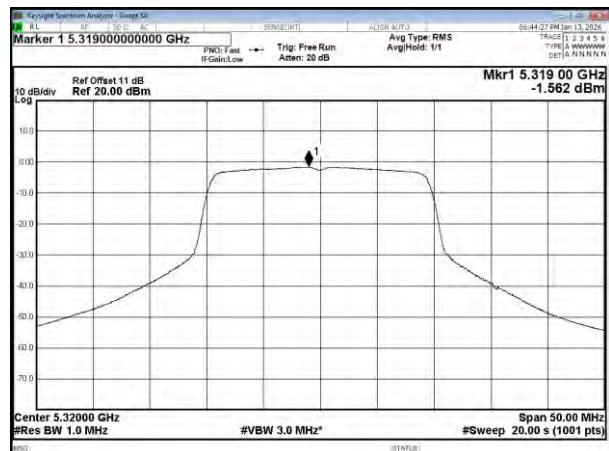
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CH64



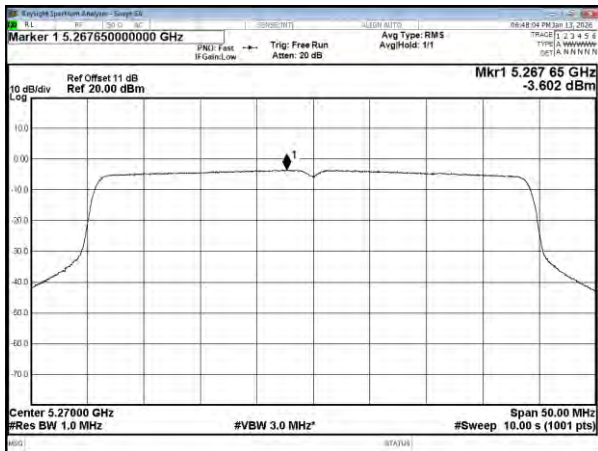
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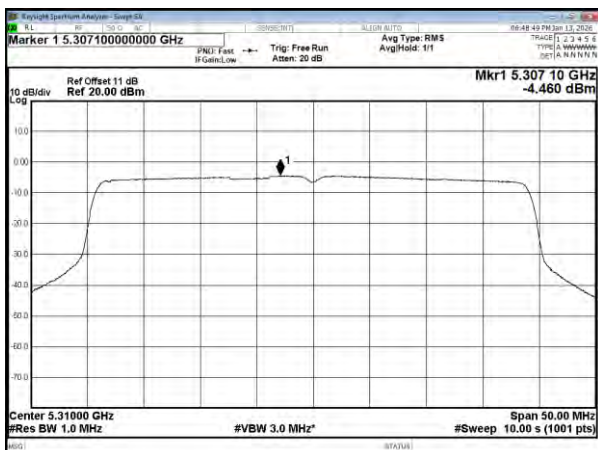


Modulation Standard: 802.11 ax HE40

CH54



CH62

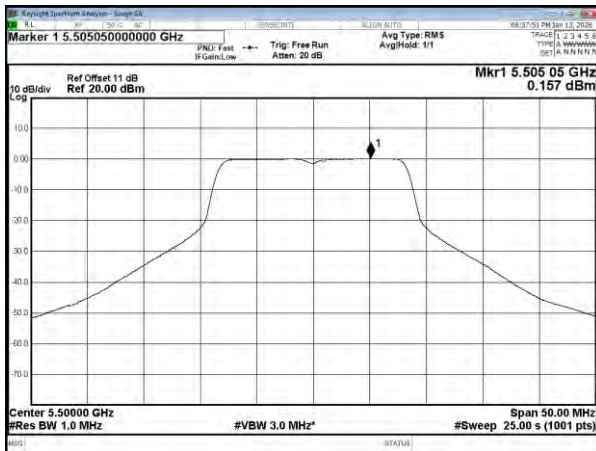




UNII-2C

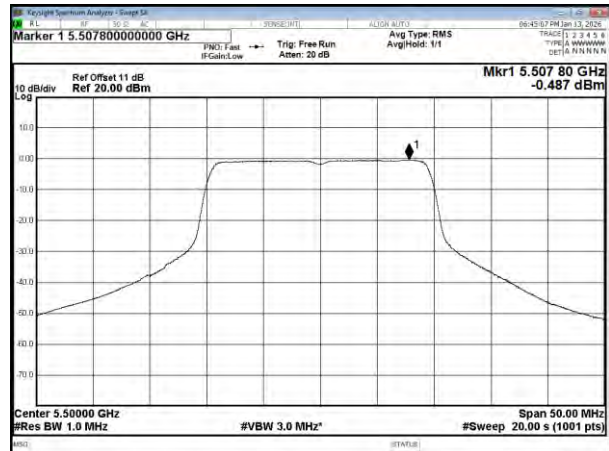
Modulation Standard: 802.11a

CH100

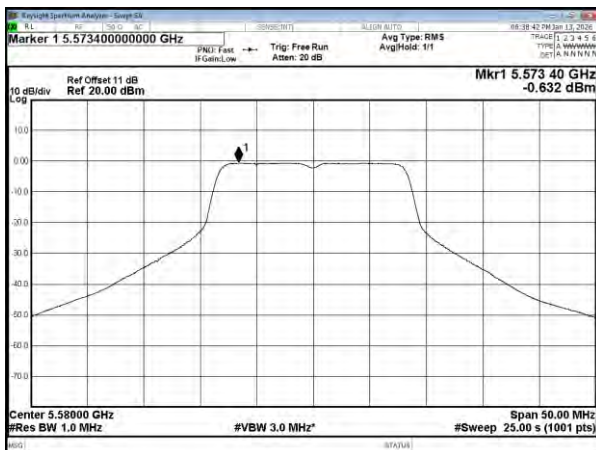


Modulation Standard: 802.11 ax HE20

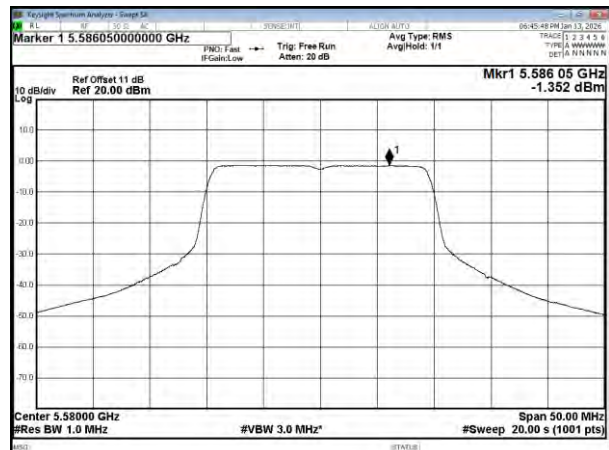
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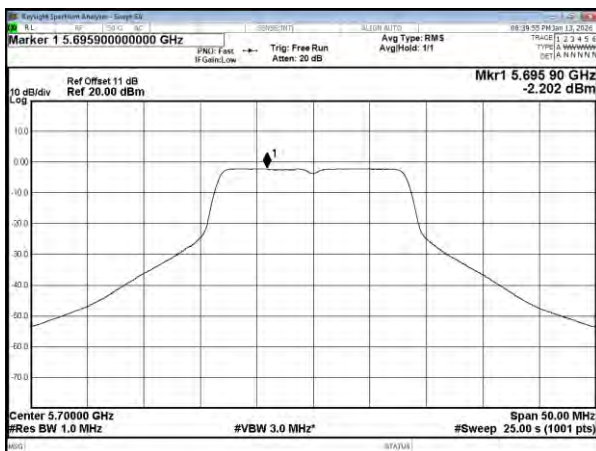
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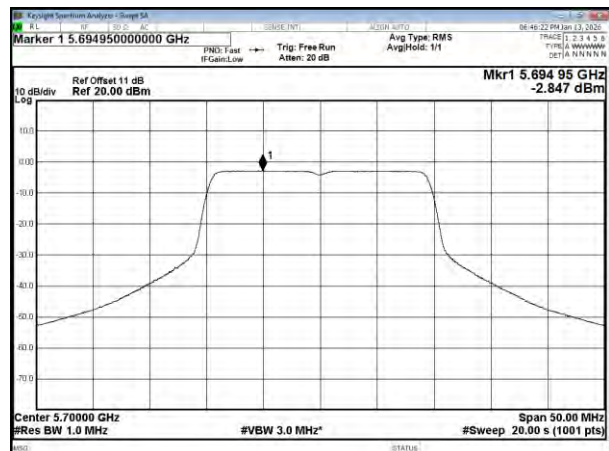
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CH140



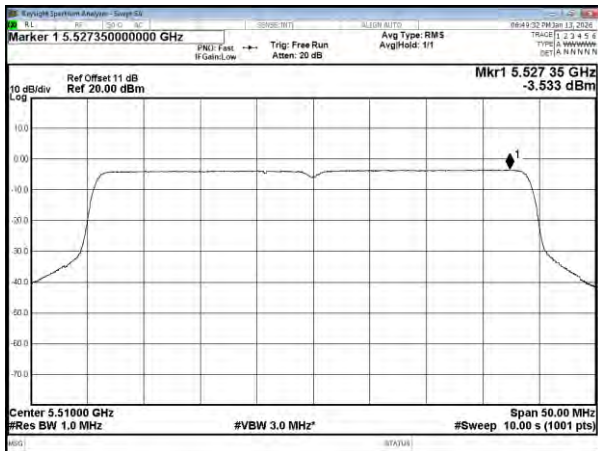
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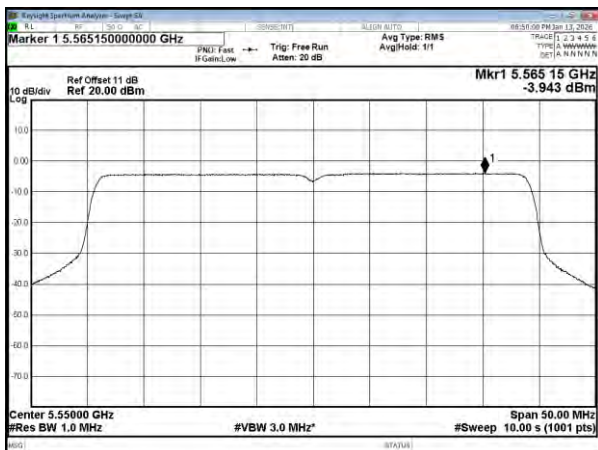


Modulation Standard: 802.11 ax HE40

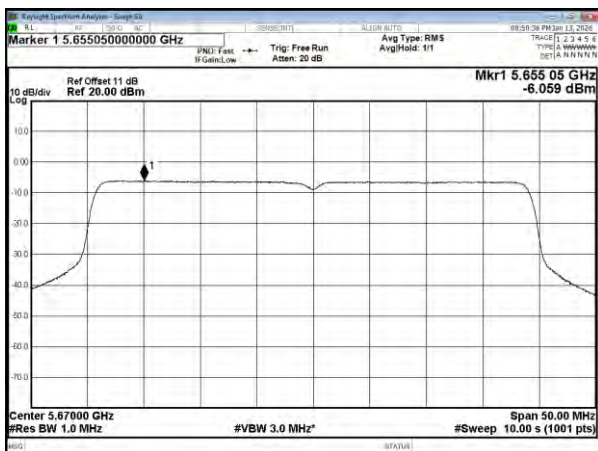
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CH110



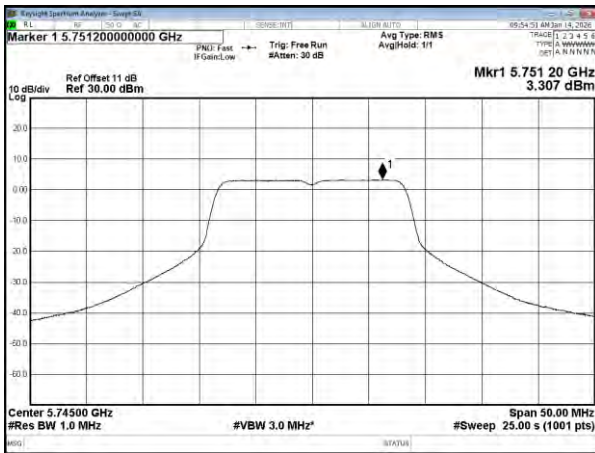
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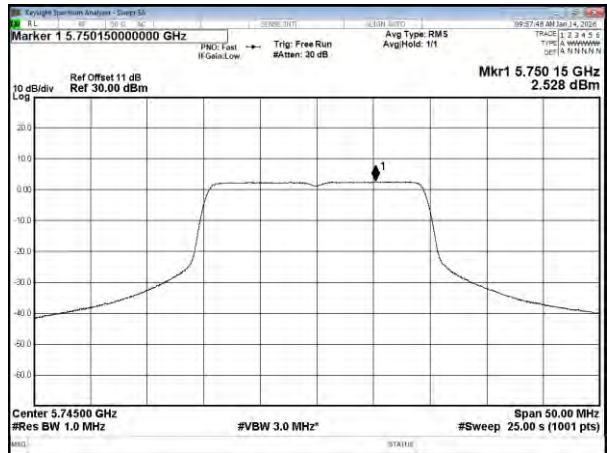


UNII-3

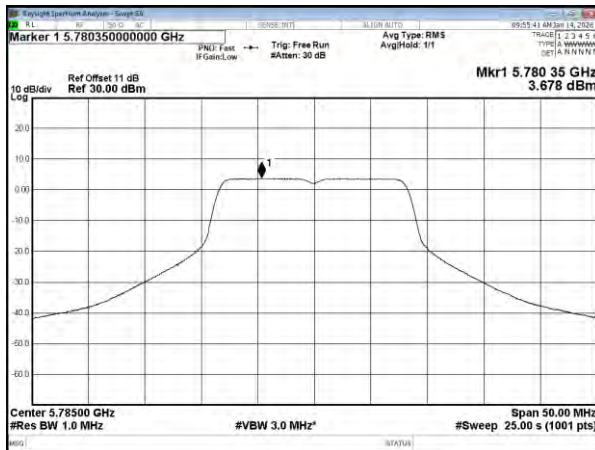
Modulation Type: 802.11a
CH149



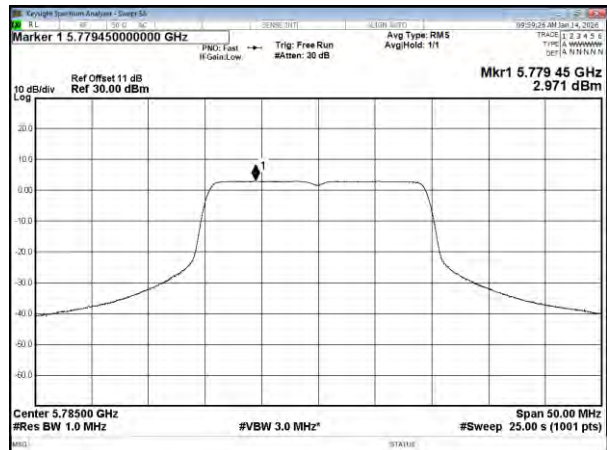
Modulation Standard: 802.11 ax HE20
CH149



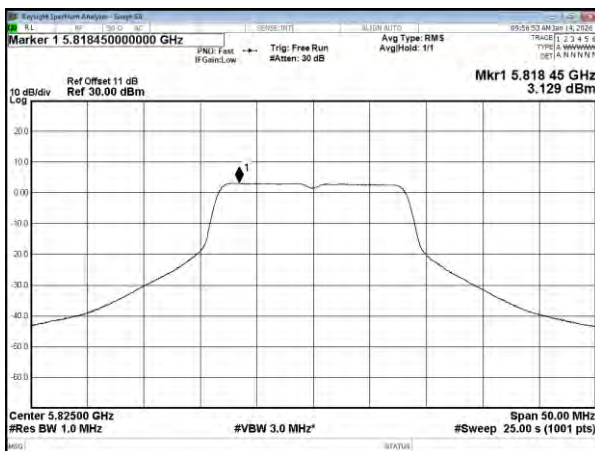
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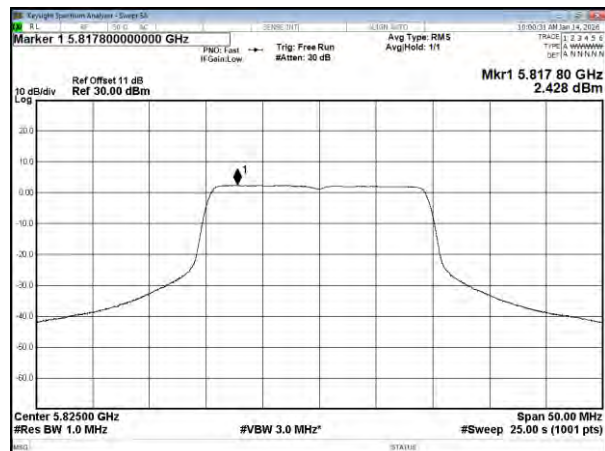
CH157



CH165

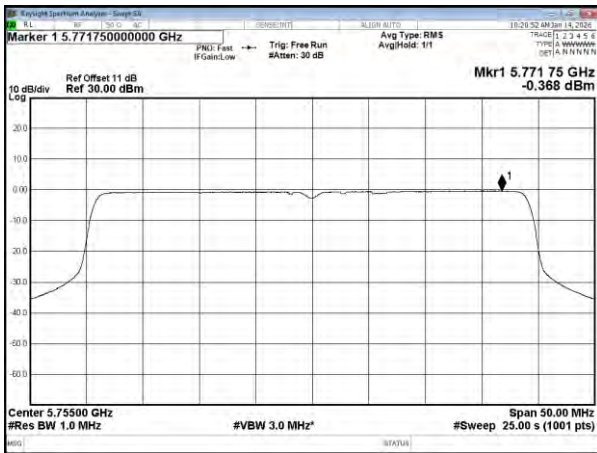


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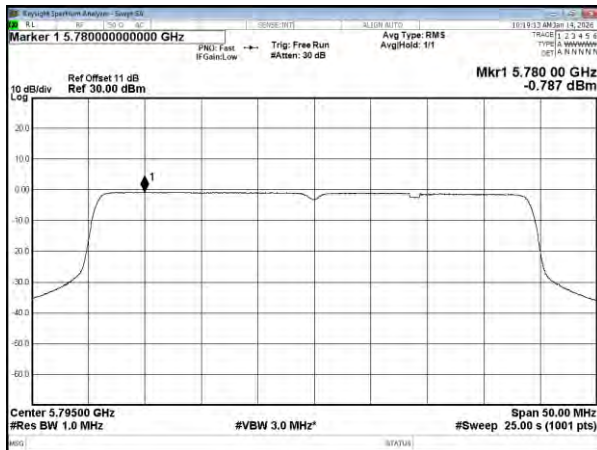




Modulation Standard: 802.11 ax HE40
CH151



CH159



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