



FCC RADIO TEST REPORT

Applicant	: IC Realtime LLC
Address	: 3050 N. Andrews AVE EXT, Pompano Beach, Florida, United States, 33064
Equipment	: Video Doorbell
Model No.	: DINGER-PRO-3W, DINGER-PRO-3B
Trade Name	: N/A
Date of Sample Receipt	: Jul. 06, 202
Date(s) of Test	: Jul. 10, 2026~Aug. 20, 2026
FCC ID.	: 2ARDU-DINGER-PRO3
Standard	: FCC part 15 Subpart E §15.407

I HEREBY CERTIFY THAT:

The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li / Supervisor



CONTENTS

1.	Summary of Test Procedure and Test Results	5
1.1.	Applicable Standards	5
2.	Test Configuration of Equipment under Test	6
2.1.	Feature of Equipment under Test	6
2.2.	Carrier Frequency of Channels	7
2.3.	Test Mode and Test Software	8
2.4.	Description of Test System	9
2.5.	General Information of Test	10
2.6.	Measurement Uncertainty	10
3.	Test Equipment and Ancillaries Used for Tests	11
4.	Antenna Requirements	13
4.1.	Standard Applicable	13
4.2.	Antenna Construction and Directional Gain	13
5.	Test of AC Power Line Conducted Emission	14
5.1.	Test Limit	14
5.2.	Test Procedures	14
5.3.	Typical Test Setup	15
5.4.	Test Result and Data	16
6.	Test of Spurious Emission (Radiated)	22
6.1.	Test Limit	22
6.2.	Test Procedures	22
6.3.	Typical Test Setup	23
6.4.	Test Result and Data (9kHz ~ 30MHz)	24
6.5.	Test Result and Data (30MHz ~ 1GHz)	24
6.6.	Test Result and Data (1GHz ~ 40GHz)	30
6.7.	Restricted Bands of Operation	96
6.8.	Restrict Band Emission Measurement Data	97
7.	On Time, Duty Cycle and Measurement methods	145
7.1.	Test Limit	145
7.2.	Test Procedure	145
7.3.	Test Setup Layout	145
7.4.	Test Result and Data	145
7.5.	Measurement Methods	146
8.	6dB Bandwidth & 99% Occupied Bandwidth	148
9.	26dB Bandwidth & 99% Occupied Bandwidth	156
9.1.	Test Limit	156
9.2.	Test Procedure	156
9.3.	Test Setup Layout	156
9.4.	Test Result and Data (26dB Bandwidth)	157
9.5.	Test Result and Data (99% Occupied Bandwidth)	159
10.	Average Power	170
10.1.	Test Limit	170
10.2.	Test Procedure	171



10.3.	Test Setup Layout	171
10.4.	Test Result and Data.....	172
11.	Maximum Power Spectral Density	176
11.1.	Test Limit	176
11.2.	Test Procedure	176
11.3.	Test Setup Layout	176
11.4.	Test Result and Data.....	177
12.	Frequency Stability.....	191
12.1.	Test Procedure	191
12.2.	Test Setup Layout	191
12.3.	Test Result and Data.....	192
13.	Automatically Discontinue Transmission	196
13.1.	Limit of Automatically Discontinue Transmission	196
13.2.	Test Result of Automatically Discontinue Transmission.....	196



History of this test report

Version No.	Report No	Date	Description
Rev.01	26070021-DRFCC03	Jul. 23, 2026	Initial Issue



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
15.407(g)	Frequency Stability	PASS
15.407(c)	Automatically Discontinue Transmission	PASS
Note: Deviations Yes ☐ No ☒ *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	Video Doorbell
Model Name	DINGER-PRO-3W, DINGER-PRO-3B
Model Discrepancy	The models are identical to each other except for model name and appearance color. DINGER-PRO-3W is the representative for the final test.
Frequency Range	BLE/ Wi-Fi 2.4GHz: 2400-2483.5MHz Wi-Fi 5GHz: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
Modulation Type	BLE: GFSK Wi-Fi 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM Wi-Fi 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 Wi-Fi 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 Wi-Fi 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, HE20/40
Working Temperature	-25°C to 55°C
EUT Power Rating	5V $\pm$ 2A; 10-24V $\pm$ 1A; 14-24V~1A

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 1: 5150MHz-5250MHz

802.11a, 802.11n HT 20, 802.11ac VHT20, 802.11ax HE20

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

802.11n HT 40, 802.11ac VHT40, 802.11ax HE40

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

Band 2: 5250MHz -5350MHz

802.11a, 802.11n HT 20, 802.11ac VHT20, 802.11ax HE20

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

802.11n HT 40, 802.11ac VHT40, 802.11ax HE40

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

Band 3: 5470MHz -5725MHz

802.11a, 802.11n HT 20, 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 HT 40, 802.11ac VHT40, 802.11ax HE40

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

Band 4: 5725MHz -5850MHz

802.11a, 802.11n HT 20, 802.11ac VHT20, 802.11ax HE20

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

802.11n HT 40, 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 support units and EUT for RF test.
- 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 5V from Adapter (AC120V)
2	802.11n HT20 (6.5Mbps) for 5V from Adapter (AC120V)
3	802.11n HT40 (13.5Mbps) for 5V from Adapter (AC120V)
4	802.11ac VHT20 (6.5Mbps) for 5V from Adapter (AC120V)
5	802.11ac VHT40 (13.5Mbps) for 5V from Adapter (AC120V)
6	802.11ax HE20 (7.3Mbps) for 5V from Adapter (AC120V)
7	802.11ax HE40 (14.6Mbps) for 5V from Adapter (AC120V)
8	802.11a (6Mbps) for DC24V from Adapter (AC120V)
9	802.11a (6Mbps) for AC24V from Adapter (AC120V)
10	802.11a (6Mbps) for DC24V from Adapter (AC240V)

caused "Test Mode 1,8,9 at CH165:5825MHz" generated the worst case, it was reported as the final data.

Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	802.11a (6Mbps) for 5V from Adapter
2	802.11n HT20 (6.5Mbps) for 5V from Adapter
3	802.11n HT40 (13.5Mbps) for 5V from Adapter
4	802.11ac VHT20 (6.5Mbps) for 5V from Adapter
5	802.11ac VHT40 (13.5Mbps) for 5V from Adapter
6	802.11ax HE20 (7.3Mbps) for 5V from Adapter
7	802.11ax HE40 (14.6Mbps) for 5V from Adapter
8	802.11a (6Mbps) for DC24V from Adapter
9	802.11a (6Mbps) for AC24V from Adapter

caused "Test Mode 1,8,9 at CH165:5825MHz" 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)

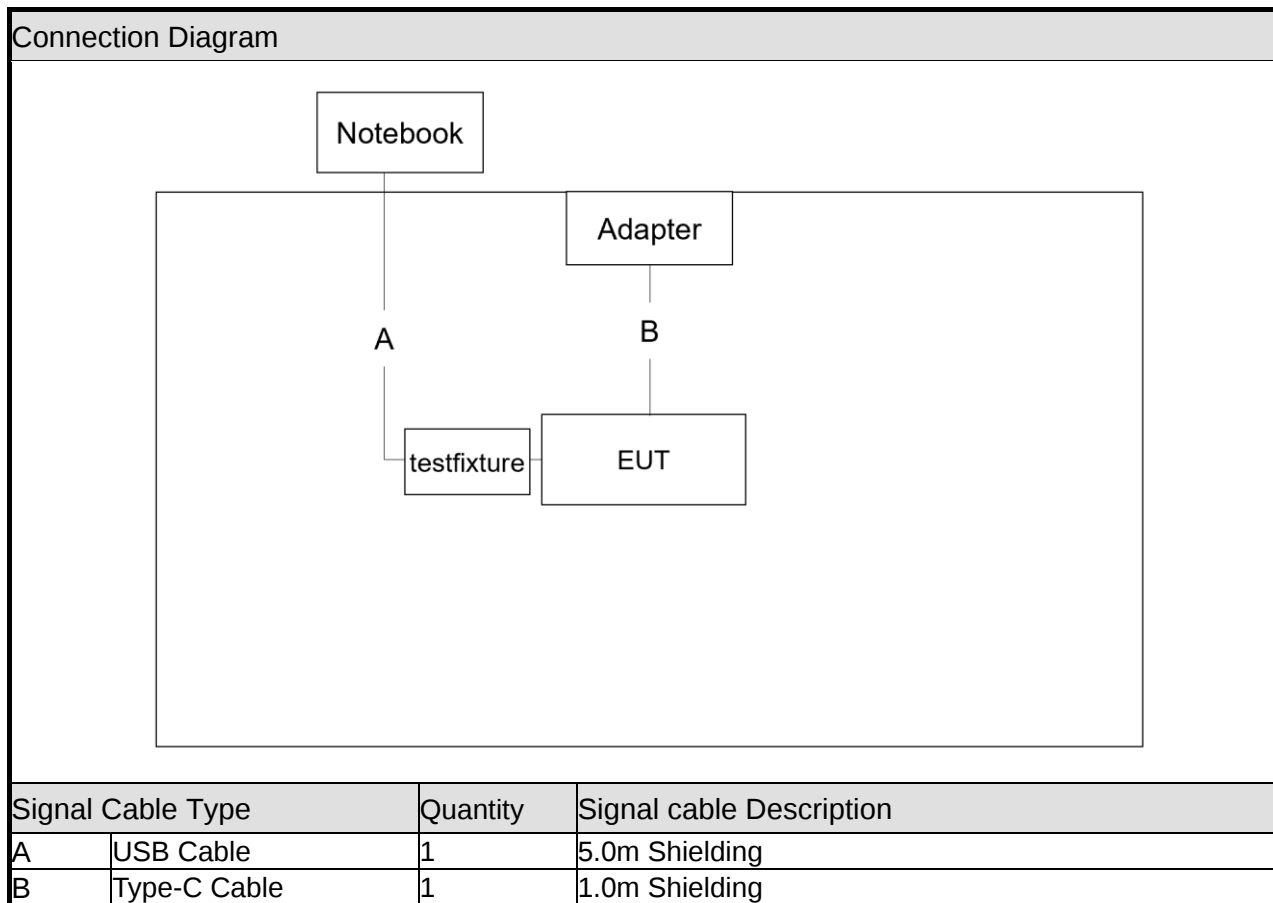
caused "Test Mode 1, 6~7" generated the worst case, it was reported as the final data.

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



2.4. Description of Test System

Product	Manufacturer	Model No.	Power Cord
1 Notebook	SONY	PCG-71811P	Non-Shielded, 1.8m
2 Adapter	DEE VAN	DSA-10PF06-05 FUS 050200	N/A
3 Adapter	KEYU	KA65E-2402500P	N/A
4 AC Adapter	CHNT	NDK(BK)-25	N/A





2.5. General Information of Test

Test Site	CerpPASS Technology Corporation(CerpPASS Laboratory) Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province, China Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz 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-DG	2026/07/13~2026/08/20	23~25℃ / 52~55%	Amos Zhang
Radiated Emissions	3M01-DG	2026/07/10~2026/07/20	22~24℃ / 51~55%	Amos Zhang
AC Power Line Conducted Emission	CON02-DG	2026/07/17	22℃ / 53%	Amos Zhang

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)	±2.56dB
Radiated Spurious Emission(9kHz~30MHz)	±3.94dB
Radiated Spurious Emission(30MHz~1GHz)	±4.22dB
Radiated Spurious Emission(1GHz~18GHz)	±5.63dB
Radiated Spurious Emission(18GHz~40GHz)	±4.40dB
6dB Bandwidth&26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±0.84dB
Power Spectral Density	±0.84dB
Frequency Stability	±78.2Hz



3. Test Equipment and Ancillaries Used for Tests

AC Power Line Conducted Emission					
Test Site	CON02-DG				
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
ESR-EMI Test Receiver	R&S	ESR3	102728	2025/07/23	2026/07/22
Two-Line V-Network	R&S	ENV216	100325	2025/07/23	2026/07/22
LISN	SCHWARZBECK	NSLK 8127	8127749	2025/12/26	2026/12/25
Cable	Aoda	RG214	Cable-07	2025/07/23	2026/07/22
Temperature/Humidity Meter	GEMLEAD	STH200A	N/A	2025/07/25	2026/07/24
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A
Test Site	Yiheng	AC-DG-005	N/A	2026/04/13	2029/04/12

Radiated Emissions					
Test Site	3M01-DG				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	101183	2025/12/26	2026/12/25
Amplifier	EMCI	EMC330	980082	2025/12/26	2026/12/25
Loop Antenna	R&S	HFH2-Z2	100150	2025/12/27	2027/12/26
Bilog Antenna	Sunol Science	JB1	A072414-3	2025/07/28	2027/07/27
Preamplifier	Agilent	8449B	3008A02342	2025/07/23	2026/07/22
Preamplifier	COM-POWER	PA-840	711885	2025/12/29	2026/12/28
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-619	2025/12/27	2027/12/26
Standard Gain Horn Antenna	TRC	HA-2640	18050	2025/12/27	2027/12/26
Standard Gain Horn Antenna	TRC	HA-1726	18051	2025/12/27	2027/12/26
FSQ Signal Analyzer	R&S	FSQ40	200012	2025/12/26	2026/12/25
Cable	EMCI	EM104-NMS M-8.5M	Cable-03	2025/12/26	2026/12/25
Cable	Jiuzhoubona	T-SMA	SMA48AL-7000	2025/12/26	2026/12/25
Cable	CH-CoDesign	CCXA81-SM AMNM-1M	Cable-05	2025/12/26	2026/12/25
Cable	CH-CoDesign	CCXA40-2.9 2-2.92-1M	21071954	2025/07/24	2026/07/23
Cable	CH-CoDesign	CCX40-2.92 M-2.92M-9M	21070892	2025/07/24	2026/07/23
Cable	CH-CoDesign	CCXA40-2.9 2-2.92-1M	21070891	2026/03/11	2027/03/10
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A
Test Site	Yiheng	AC-DG-001	N/A	2026/04/13	2029/04/12



RF Conducted (2026/07/13~2026/07/20)					
Test Site	RFCON01-DG				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
MXA Signal Analyzer	KEYSIGHT	N9020A	US46220290	2025/12/26	2026/12/25
EXA Signal Analyzer	KEYSIGHT	N9010A	MY53400169	2025/12/26	2026/12/25
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45092582	2025/12/26	2026/12/25
MXG VECTOR SIGNAL GENERATOR	Agilent	N5182B	MY53050127	2025/12/26	2026/12/25
USB Wideband Power Sensor	Boonton	55006	9778	2025/07/22	2026/07/21
Temperature/ Humidity Meter	mingle	ETH529	N/A	2025/12/29	2026/12/28

RF Conducted (2026/08/20)					
Test Site	RFCON01-DG				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
MXA Signal Analyzer	KEYSIGHT	N9020A	US46220290	2025/12/26	2026/12/25
EXA Signal Analyzer	KEYSIGHT	N9010A	MY53400169	2025/12/26	2026/12/25
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45092582	2025/12/26	2026/12/25
MXG VECTOR SIGNAL GENERATOR	Agilent	N5182B	MY53050127	2025/12/26	2026/12/25
USB Wideband Power Sensor	Boonton	55006	9778	2026/07/14	2027/07/13
Temperature/ Humidity Meter	mingle	ETH529	N/A	2025/12/29	2026/12/28



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	Metal Antenna
Antenna Gain	5150MHz - 5250MHz: 2.13dBi 5250MHz - 5350MHz: 1.99dBi 5470MHz - 5725MHz: 3.25dBi 5725MHz - 5850MHz: 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 C63.4-2014. 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

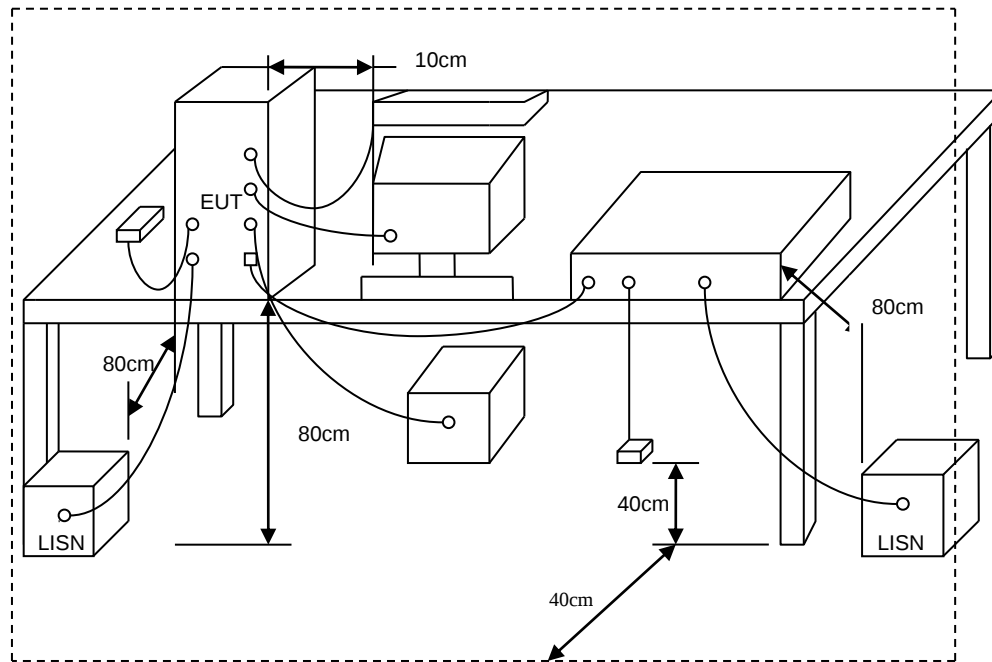
*Decreases with the logarithm of the frequency.

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.

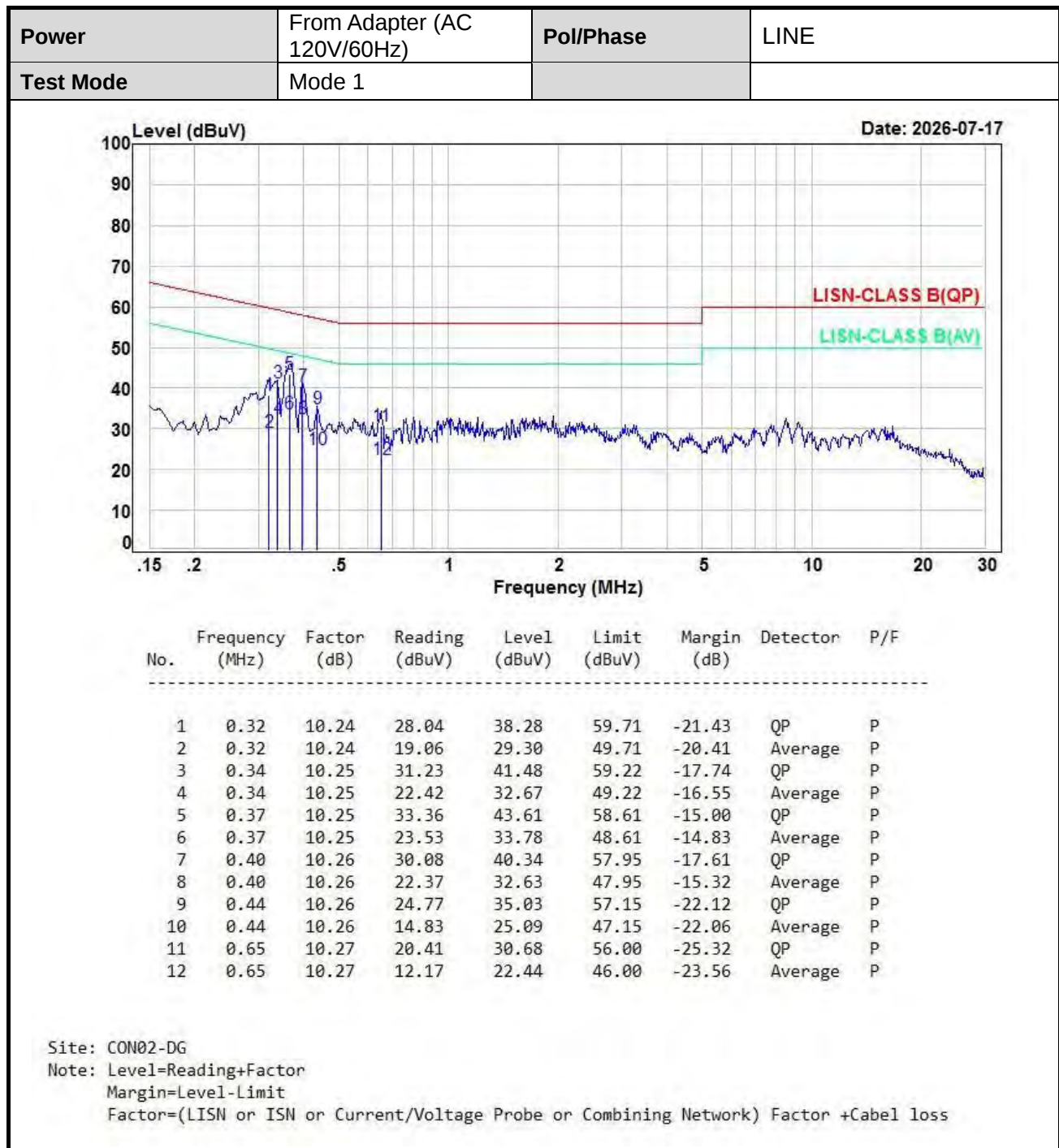


5.3. Typical Test Setup



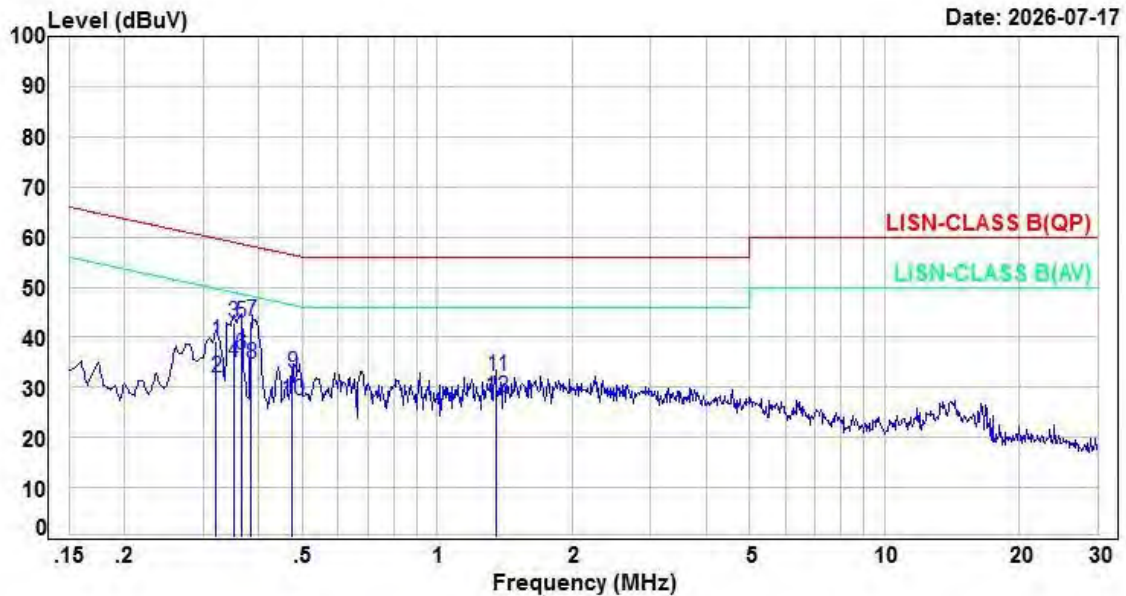


5.4. Test Result and Data





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



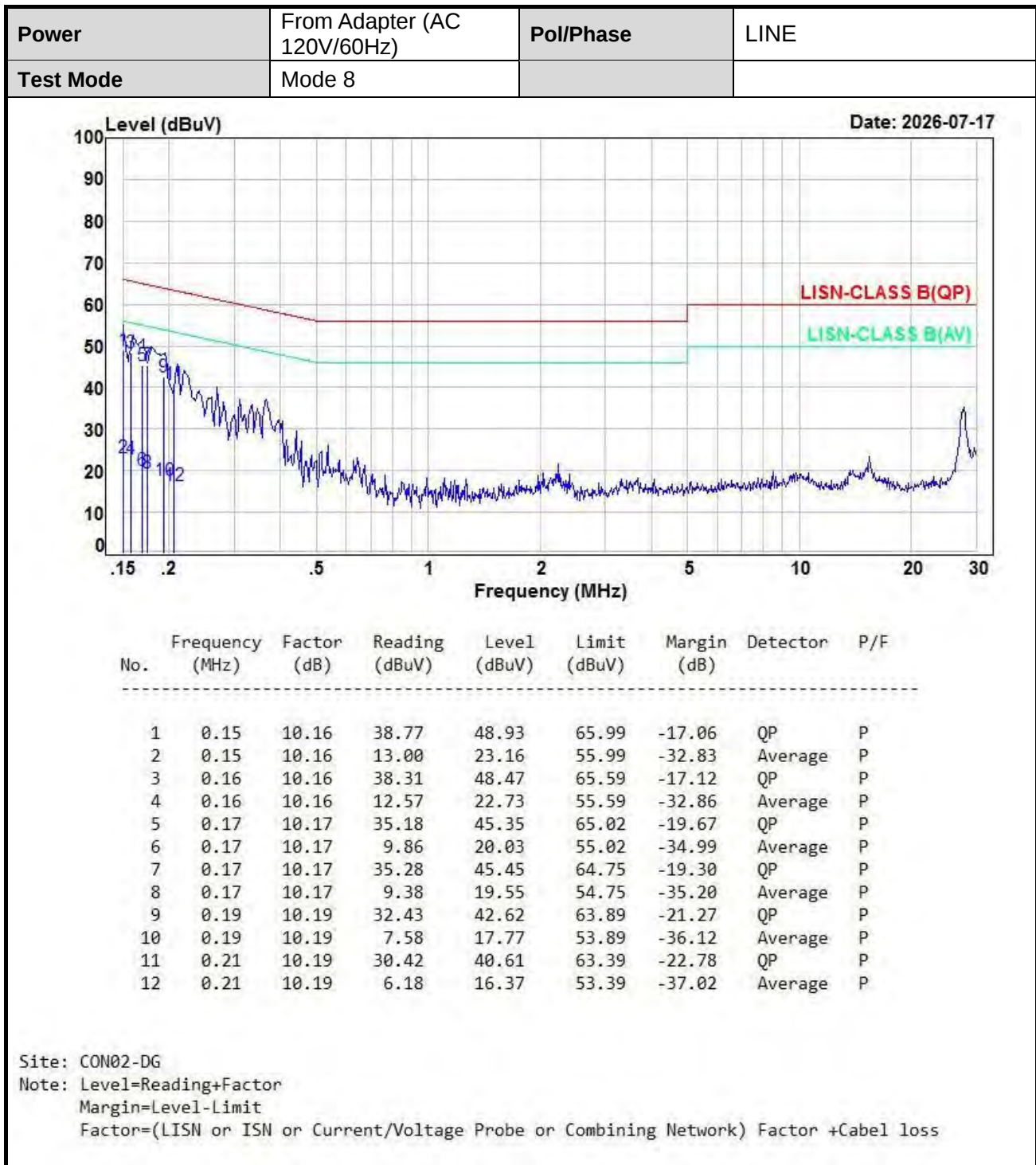
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.32	10.23	28.88	39.11	59.71	-20.60	QP	P
2	0.32	10.23	21.71	31.94	49.71	-17.77	Average	P
3	0.35	10.24	32.58	42.82	58.96	-16.14	QP	P
4	0.35	10.24	24.66	34.90	48.96	-14.06	Average	P
5	0.37	10.24	32.56	42.80	58.61	-15.81	QP	P
6	0.37	10.24	26.11	36.35	48.61	-12.26	Average	P
7	0.38	10.24	32.78	43.02	58.19	-15.17	QP	P
8	0.38	10.24	24.33	34.57	48.19	-13.62	Average	P
9	0.47	10.25	22.58	32.83	56.43	-23.60	QP	P
10	0.47	10.25	17.26	27.51	46.43	-18.92	Average	P
11	1.36	10.29	21.84	32.13	56.00	-23.87	QP	P
12	1.36	10.29	17.65	27.94	46.00	-18.06	Average	P

Site: CON02-DG

Note: Level=Reading+Factor

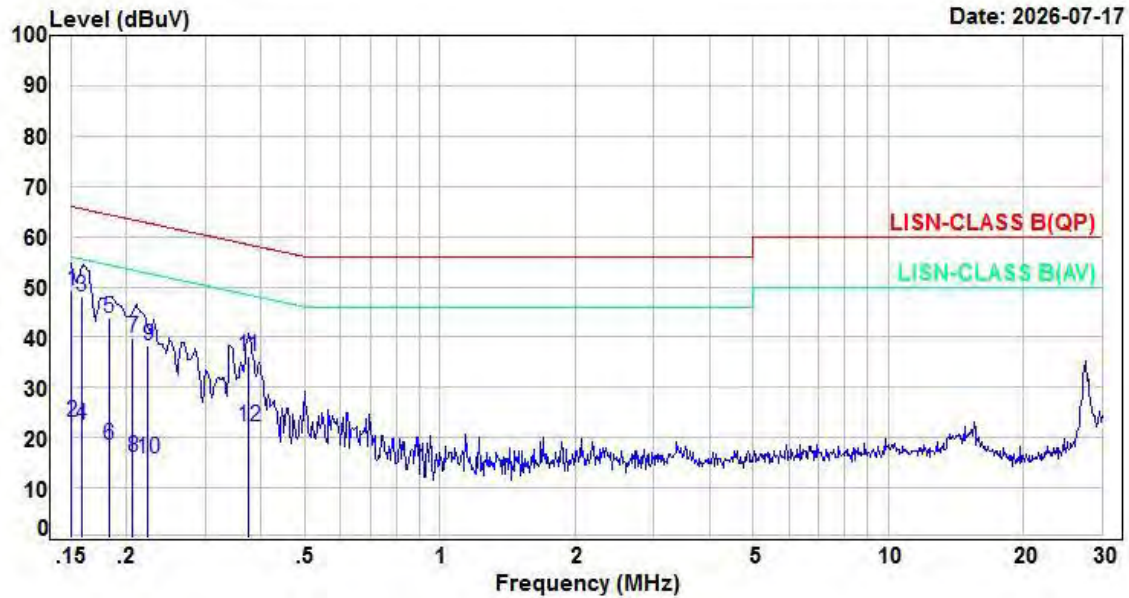
Margin=Level-Limit

Factor=(LISN or ISN or Current/Voltage Probe or Combining Network) Factor +Cabel loss





Power	From Adapter (AC 120V/60Hz)	Pol/Phase	NEUTRAL
Test Mode	Mode 8		



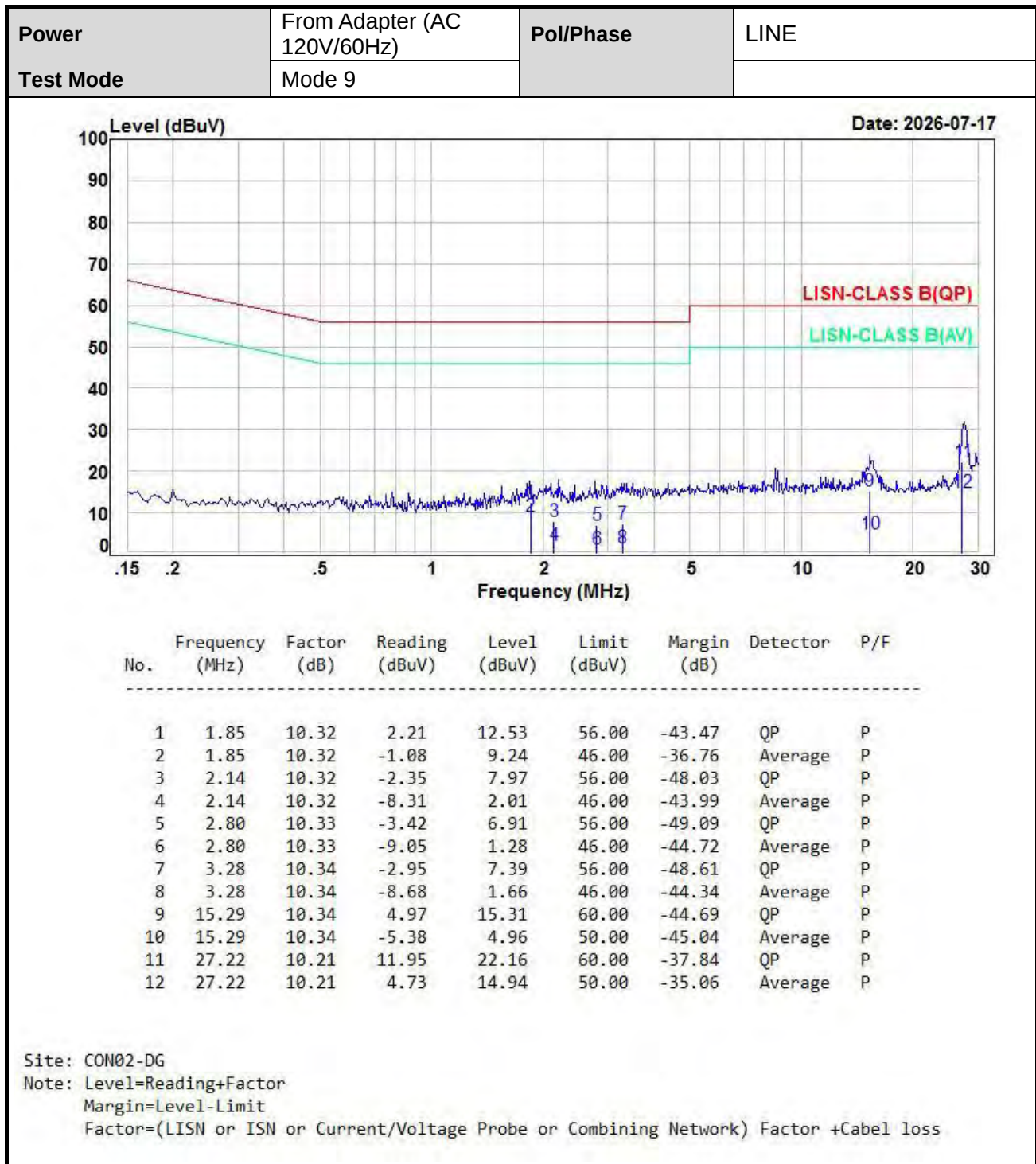
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	10.14	38.99	49.13	65.97	-16.84	QP	P
2	0.15	10.14	12.96	23.10	55.97	-32.87	Average	P
3	0.16	10.15	37.93	48.08	65.54	-17.46	QP	P
4	0.16	10.15	12.24	22.39	55.54	-33.15	Average	P
5	0.18	10.17	33.68	43.85	64.36	-20.51	QP	P
6	0.18	10.17	8.23	18.40	54.36	-35.96	Average	P
7	0.21	10.18	29.76	39.94	63.35	-23.41	QP	P
8	0.21	10.18	5.81	15.99	53.35	-37.36	Average	P
9	0.22	10.21	28.05	38.26	62.68	-24.42	QP	P
10	0.22	10.21	5.53	15.74	52.68	-36.94	Average	P
11	0.37	10.24	26.08	36.32	58.42	-22.10	QP	P
12	0.37	10.24	12.10	22.34	48.42	-26.08	Average	P

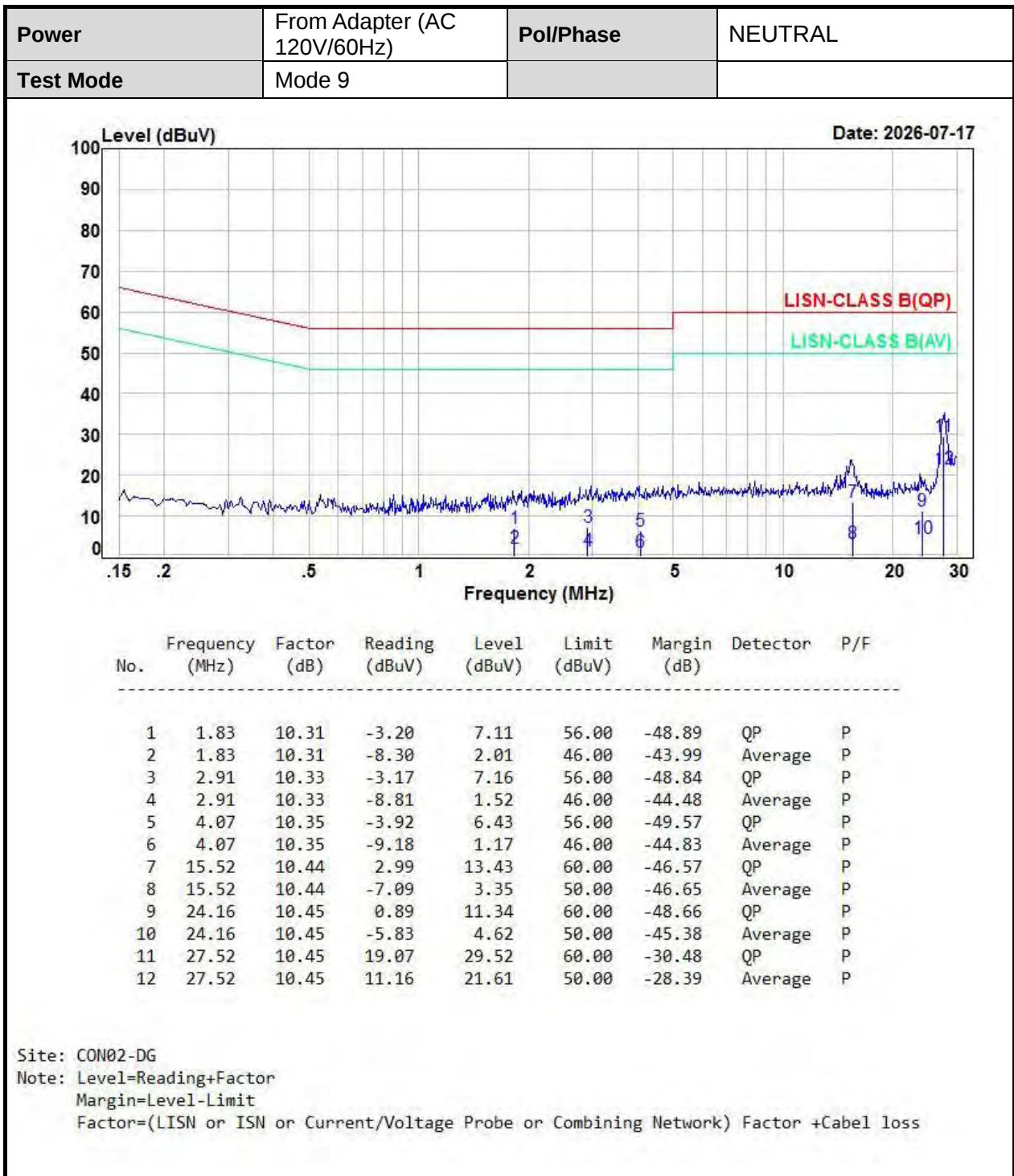
Site: CON02-DG

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=(LISN or ISN or Current/Voltage Probe or Combining Network) Factor +Cabel 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.

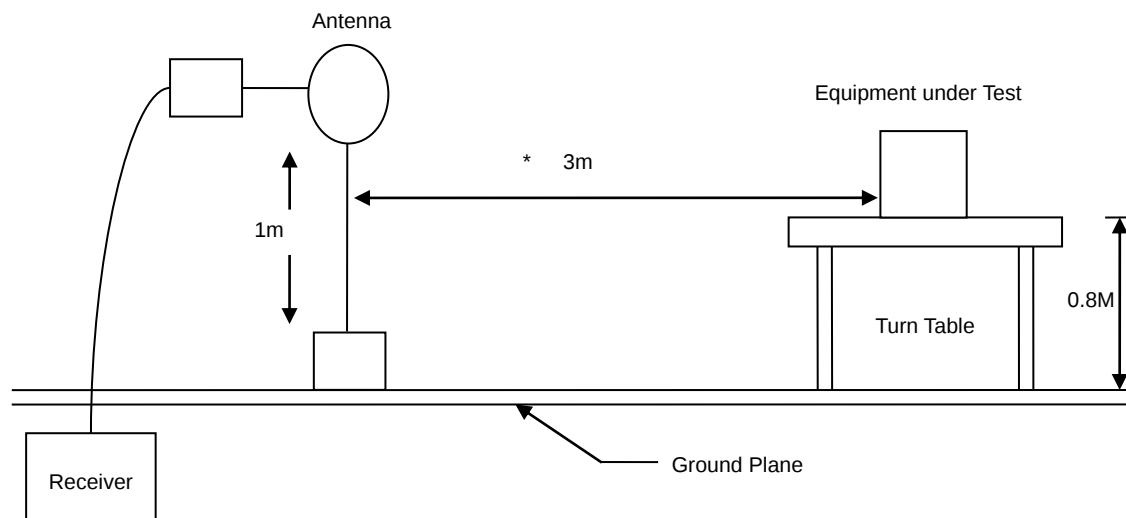
6.2. Test Procedures

- 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.

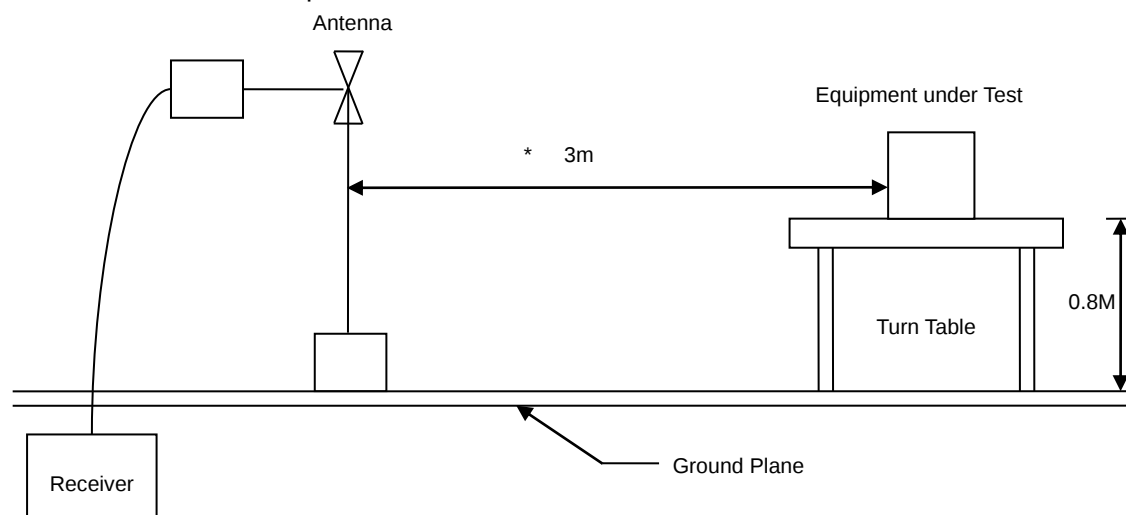


6.3. Typical Test Setup

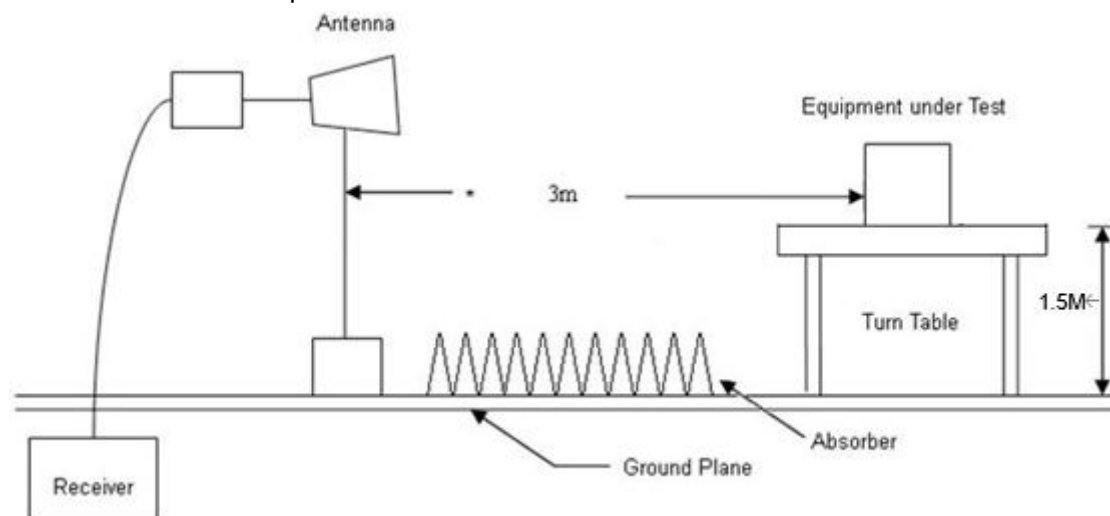
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

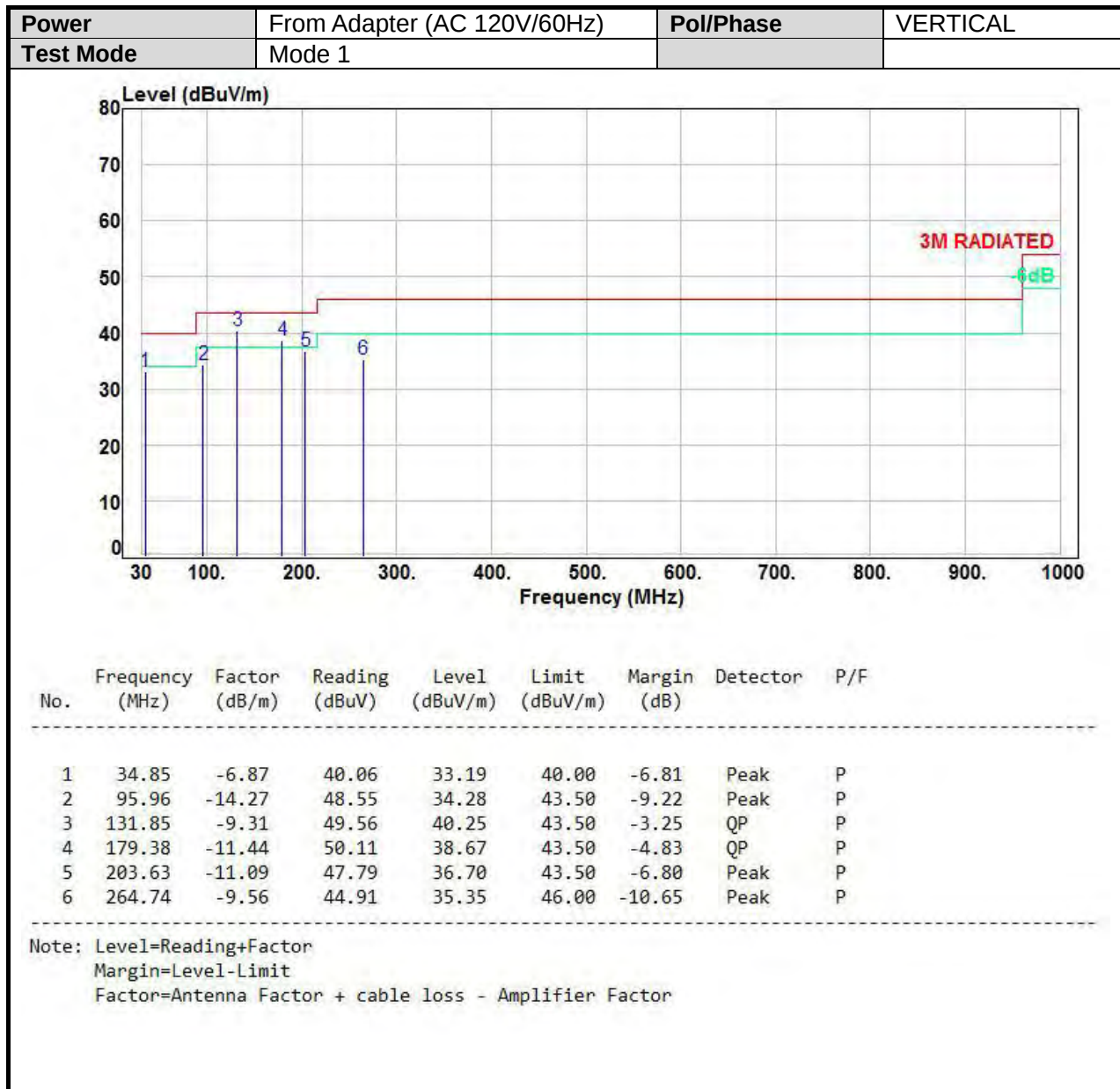


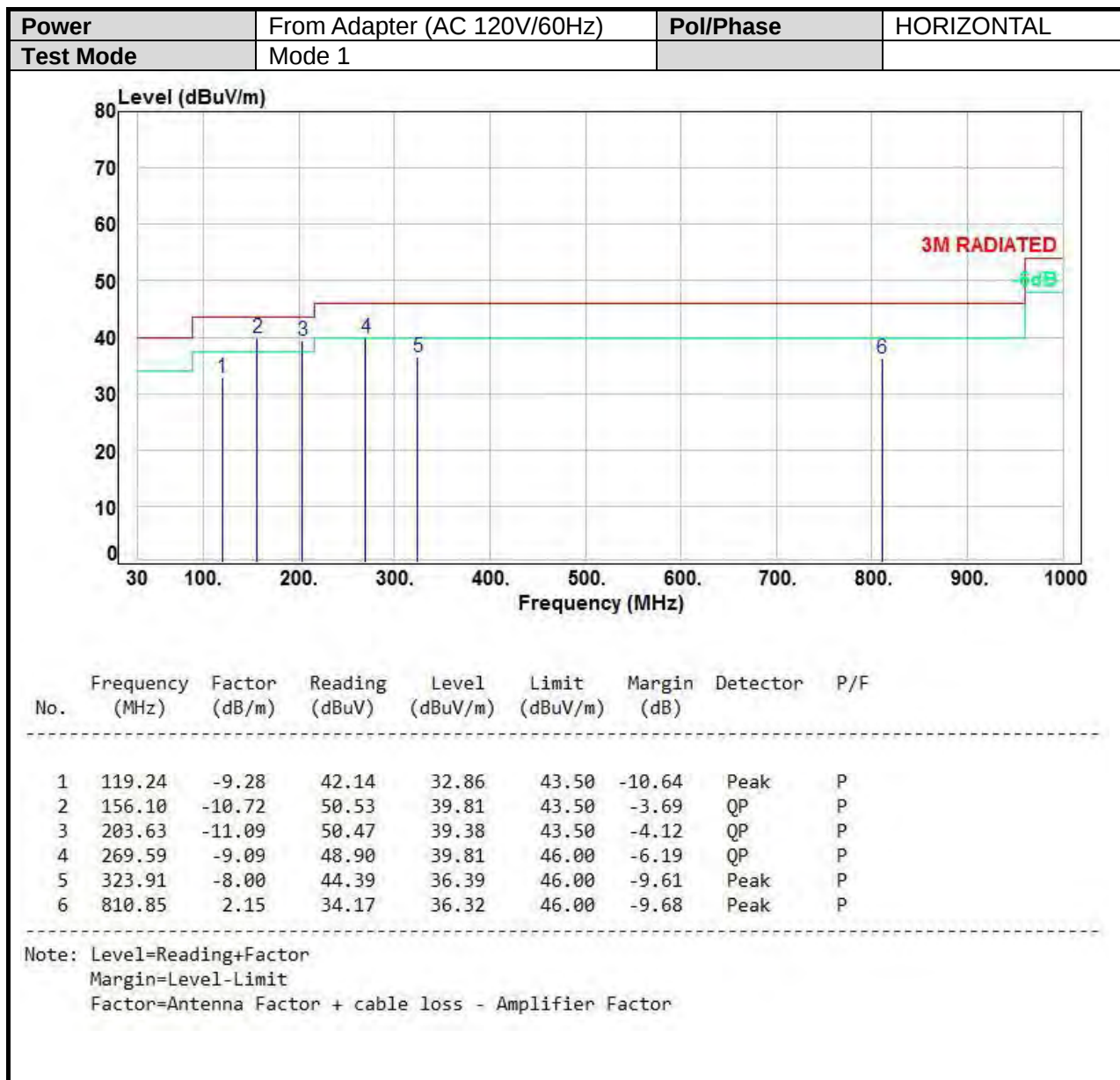


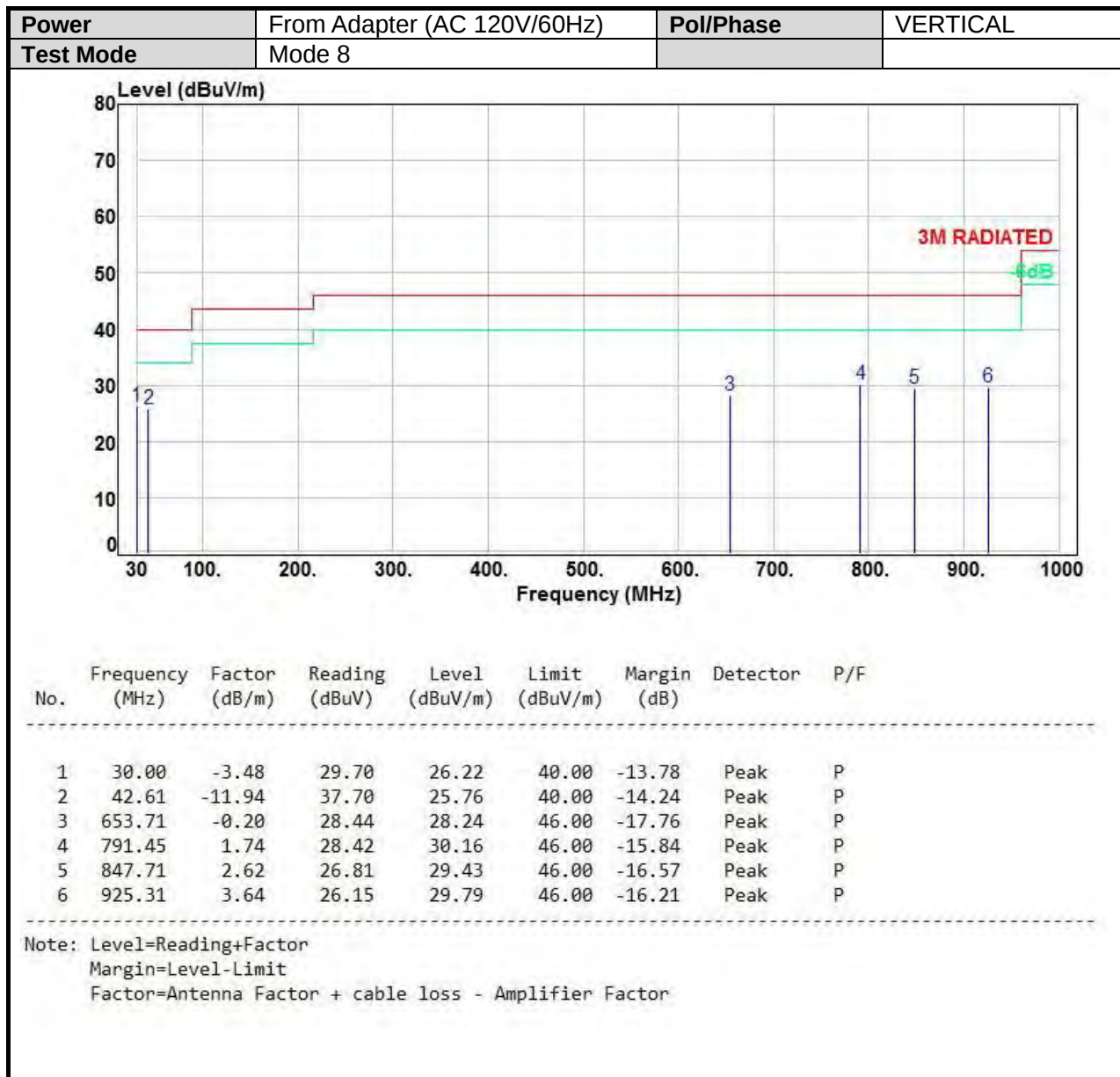
6.4. Test Result and Data (9kHz ~ 30MHz)

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

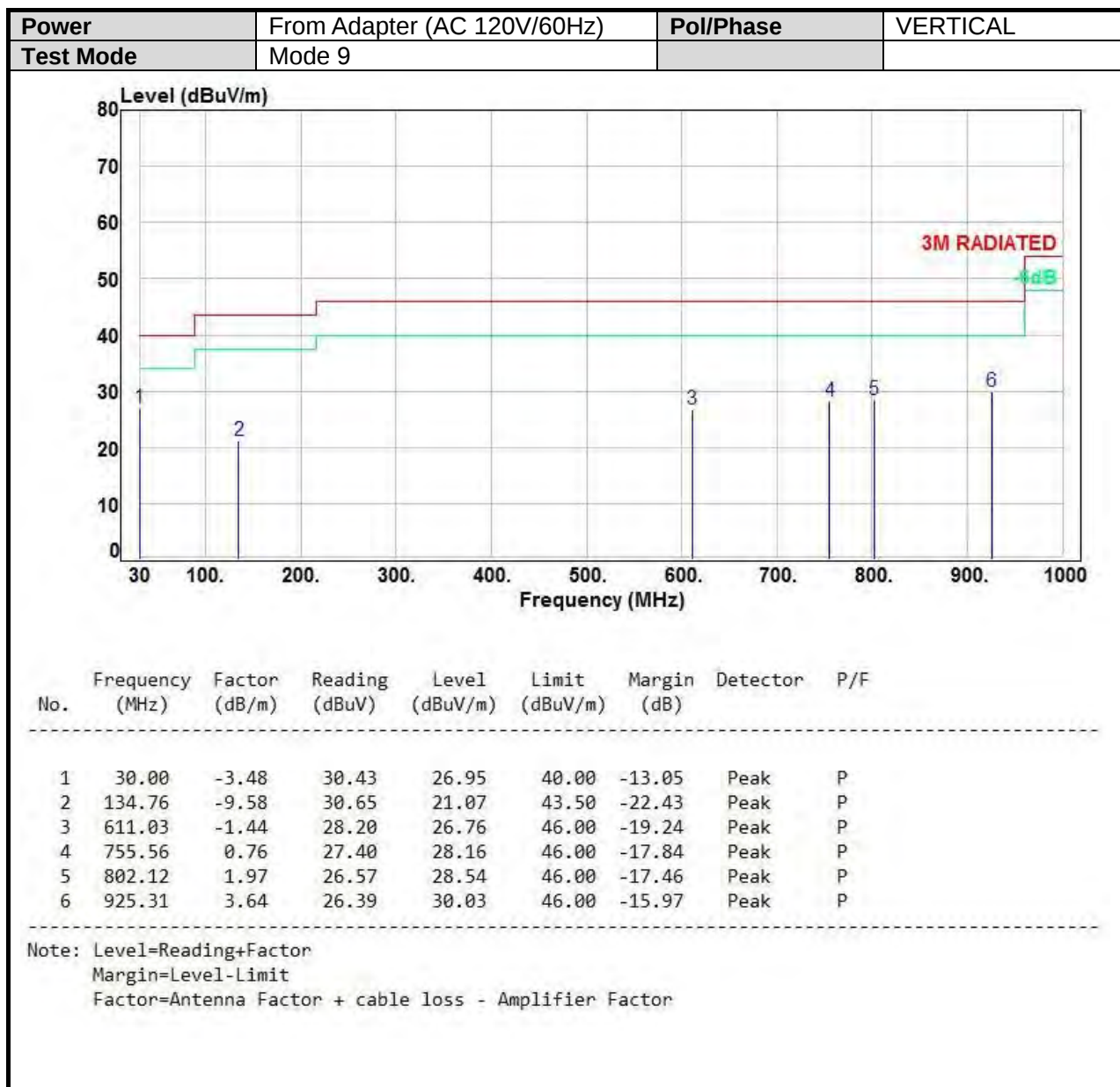
6.5. Test Result and Data (30MHz ~ 1GHz)

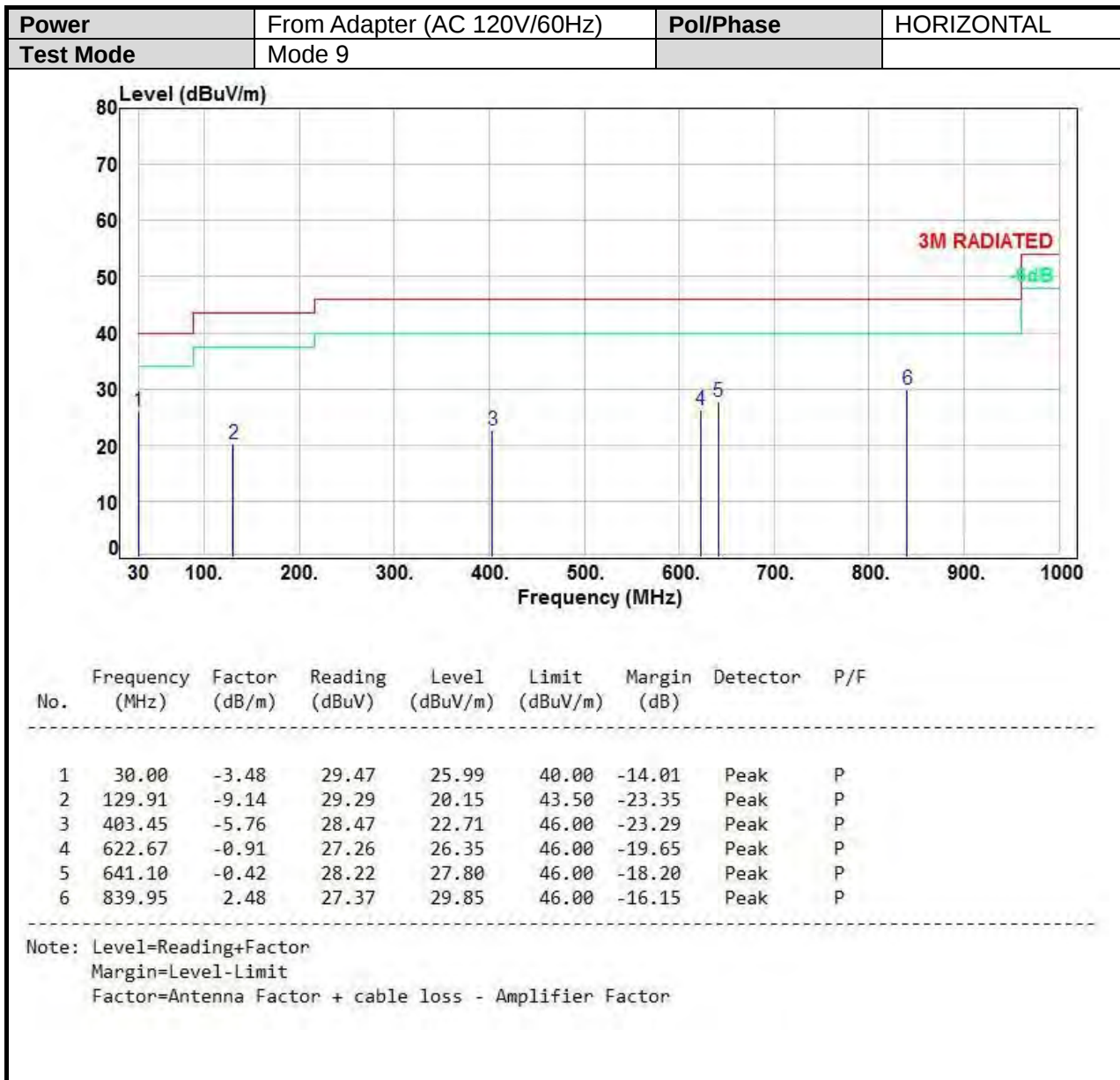










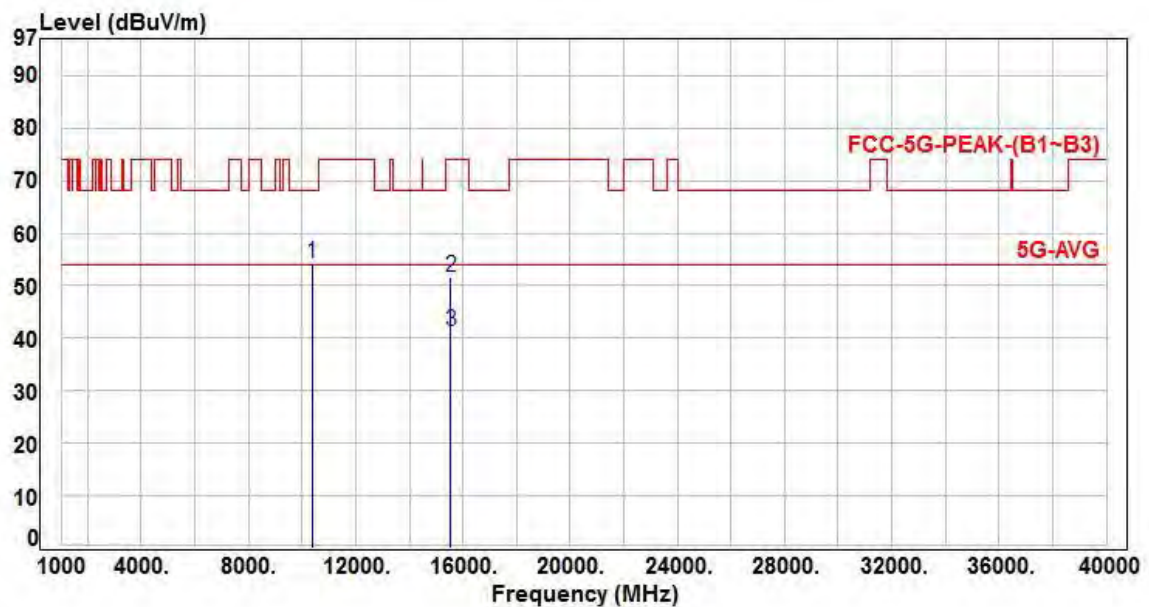




6.6. Test Result and Data (1GHz ~ 40GHz)

UNII-1

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

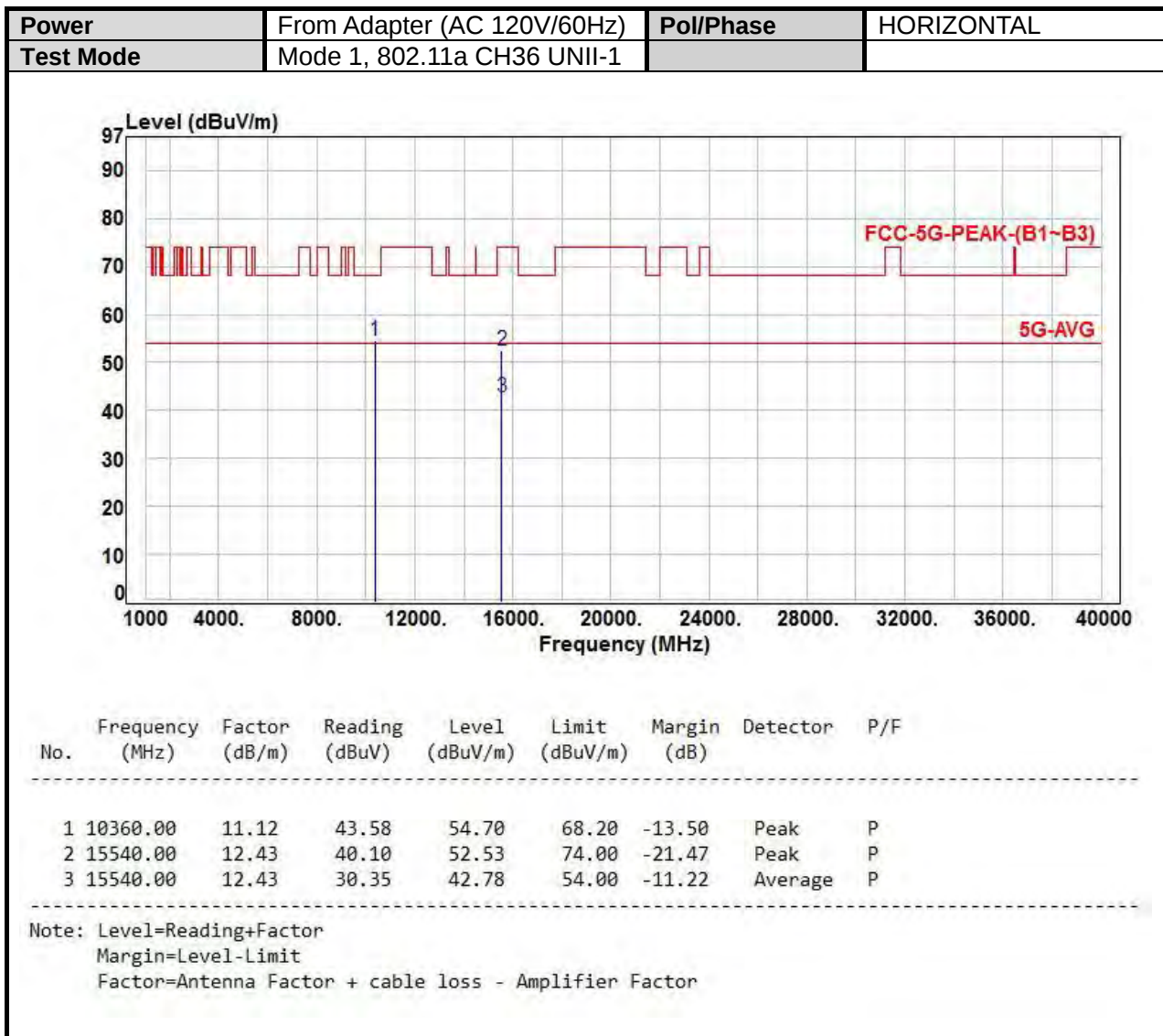


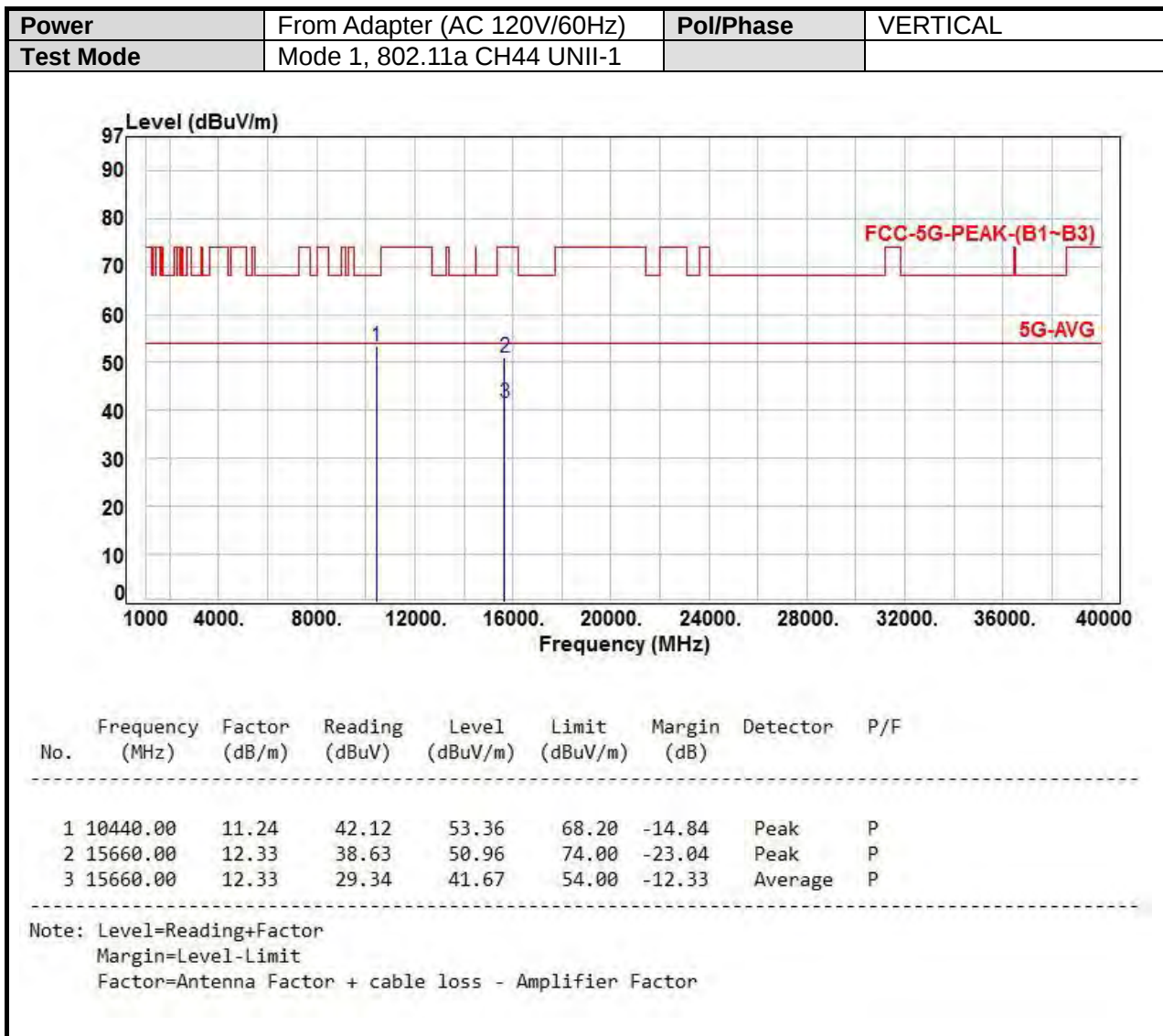
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	10360.00	11.12	43.24	54.36	68.20	-13.84	Peak	P
2	15540.00	12.43	39.27	51.70	74.00	-22.30	Peak	P
3	15540.00	12.43	28.85	41.28	54.00	-12.72	Average	P

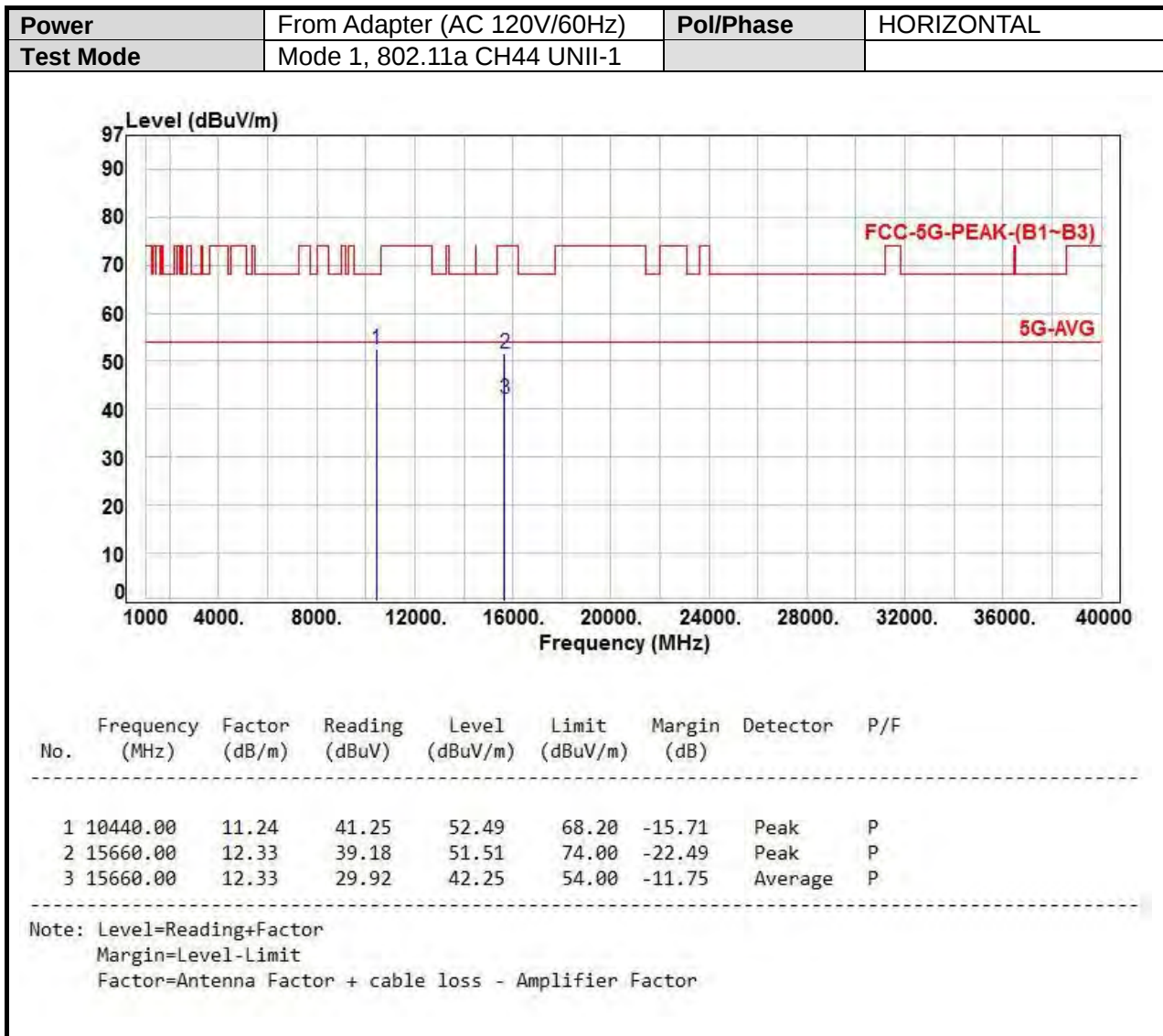
Note: Level=Reading+Factor

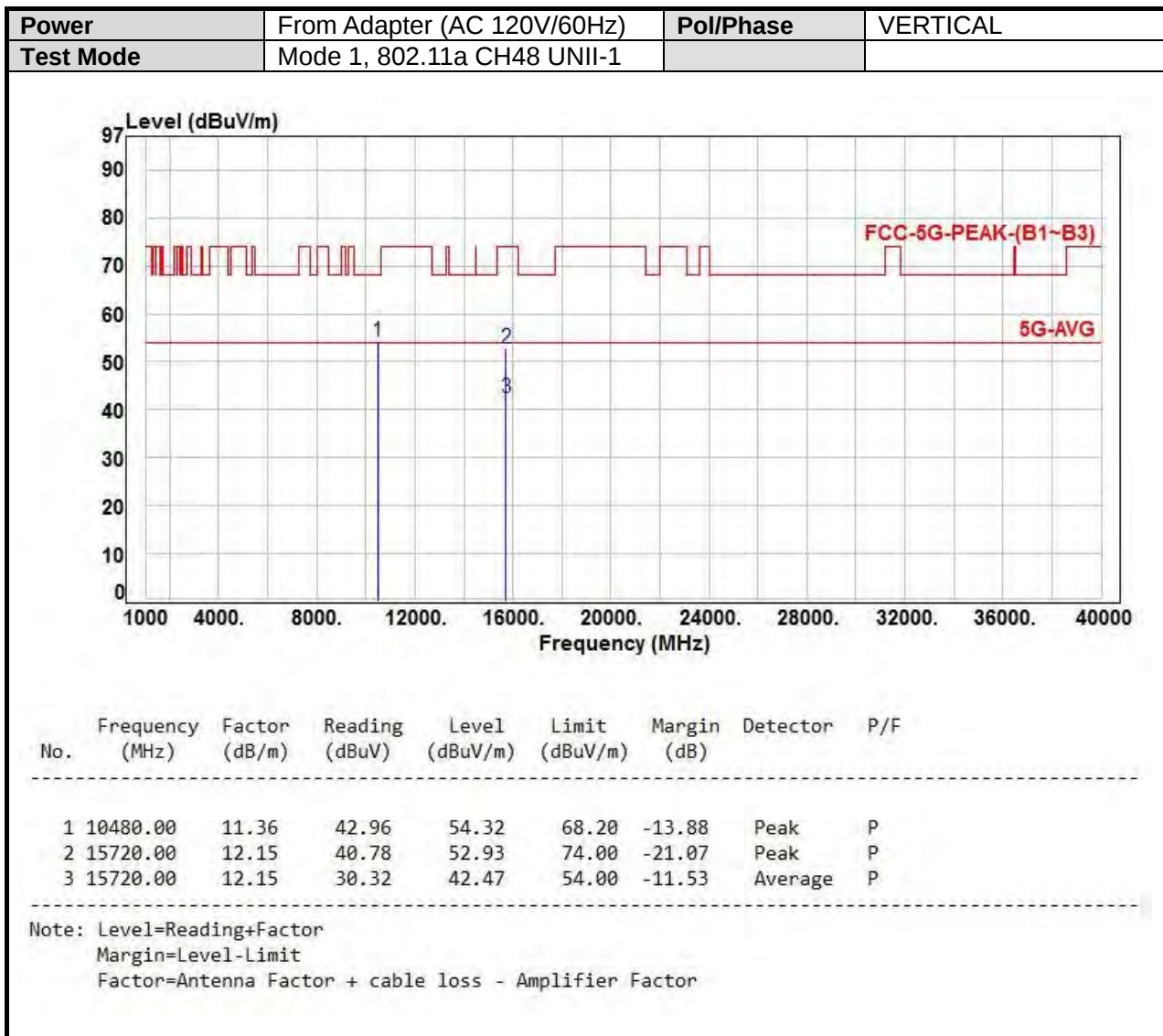
Margin=Level-Limit

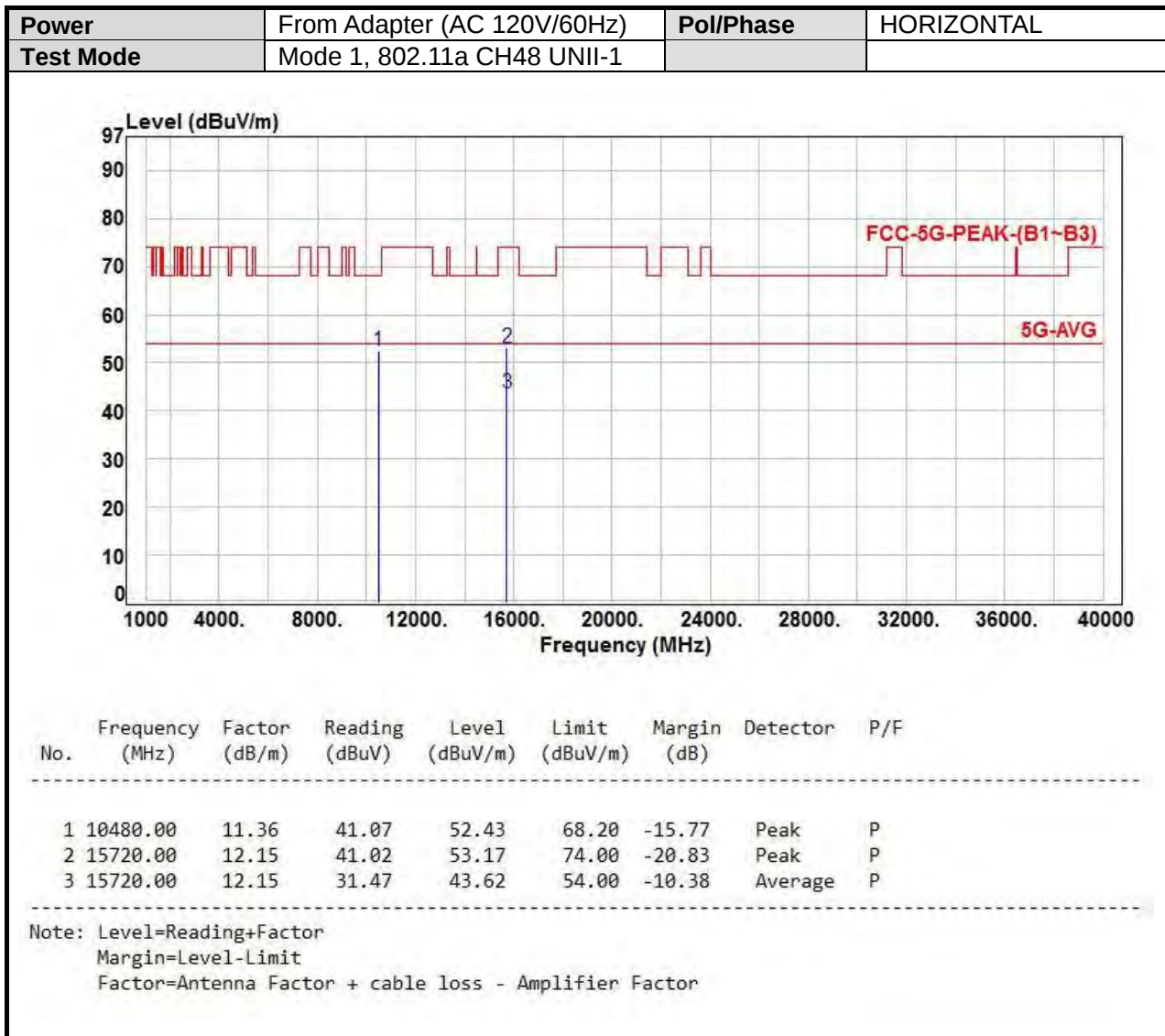
Factor=Antenna Factor + cable loss - Amplifier Factor

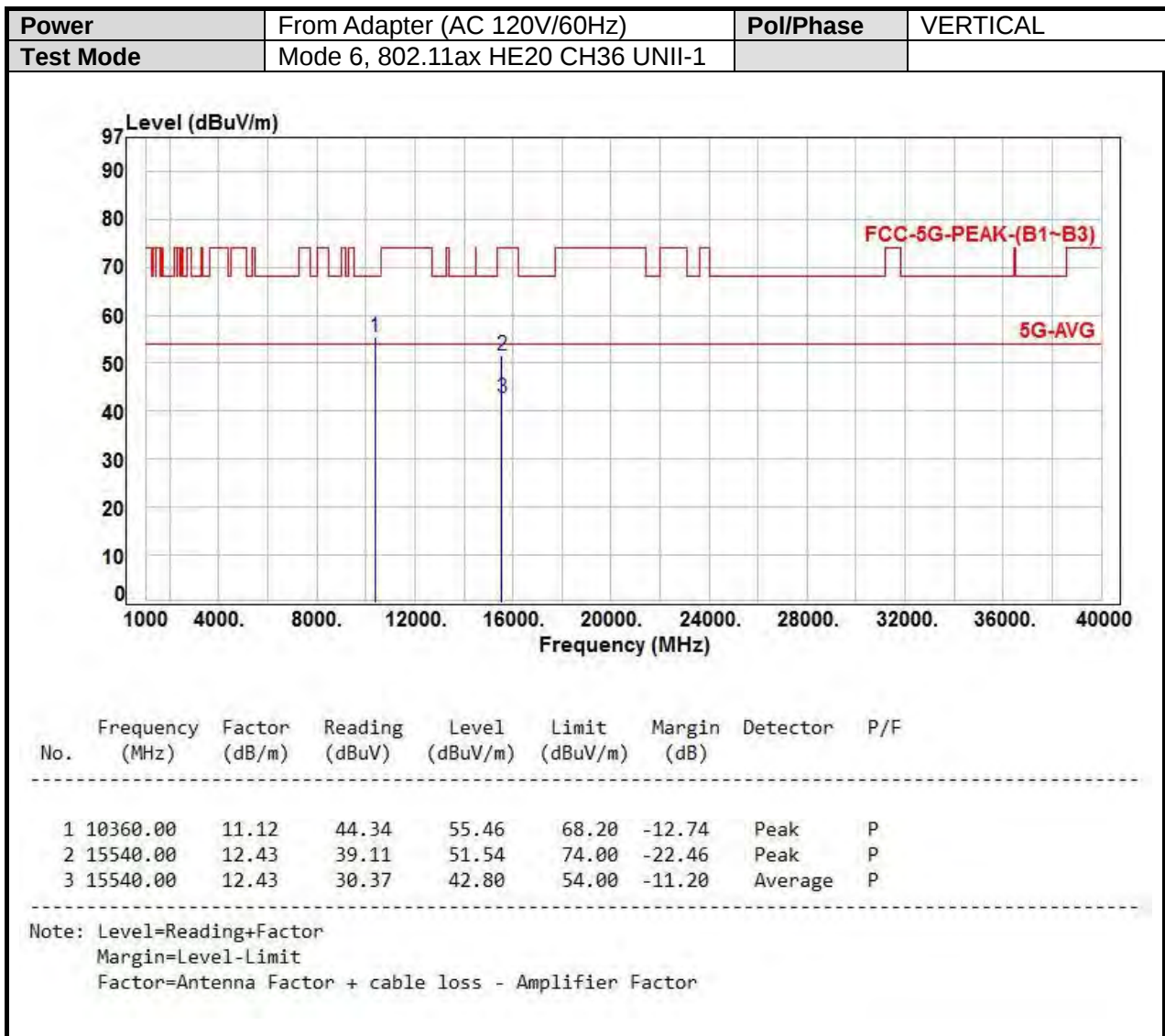


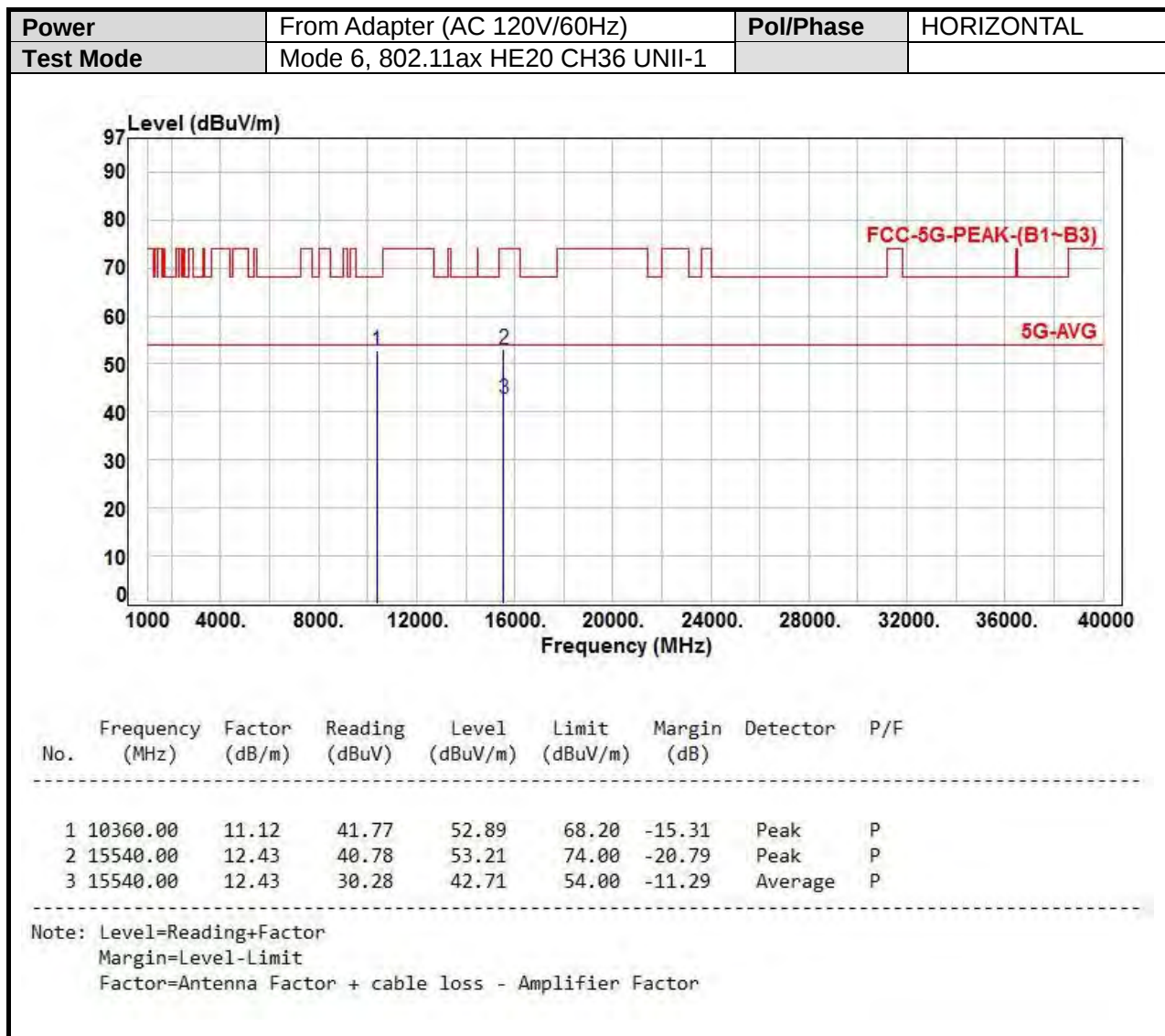


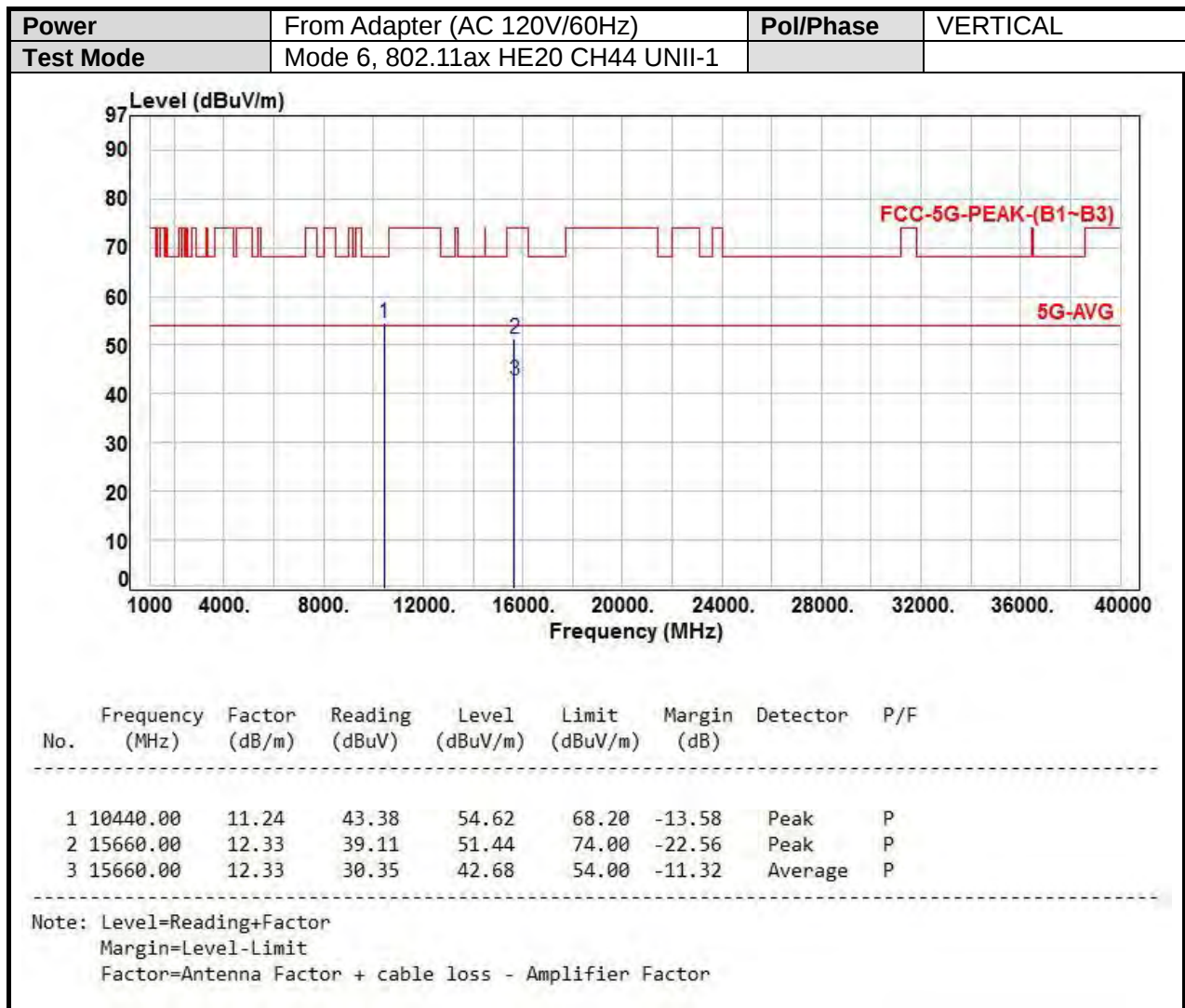


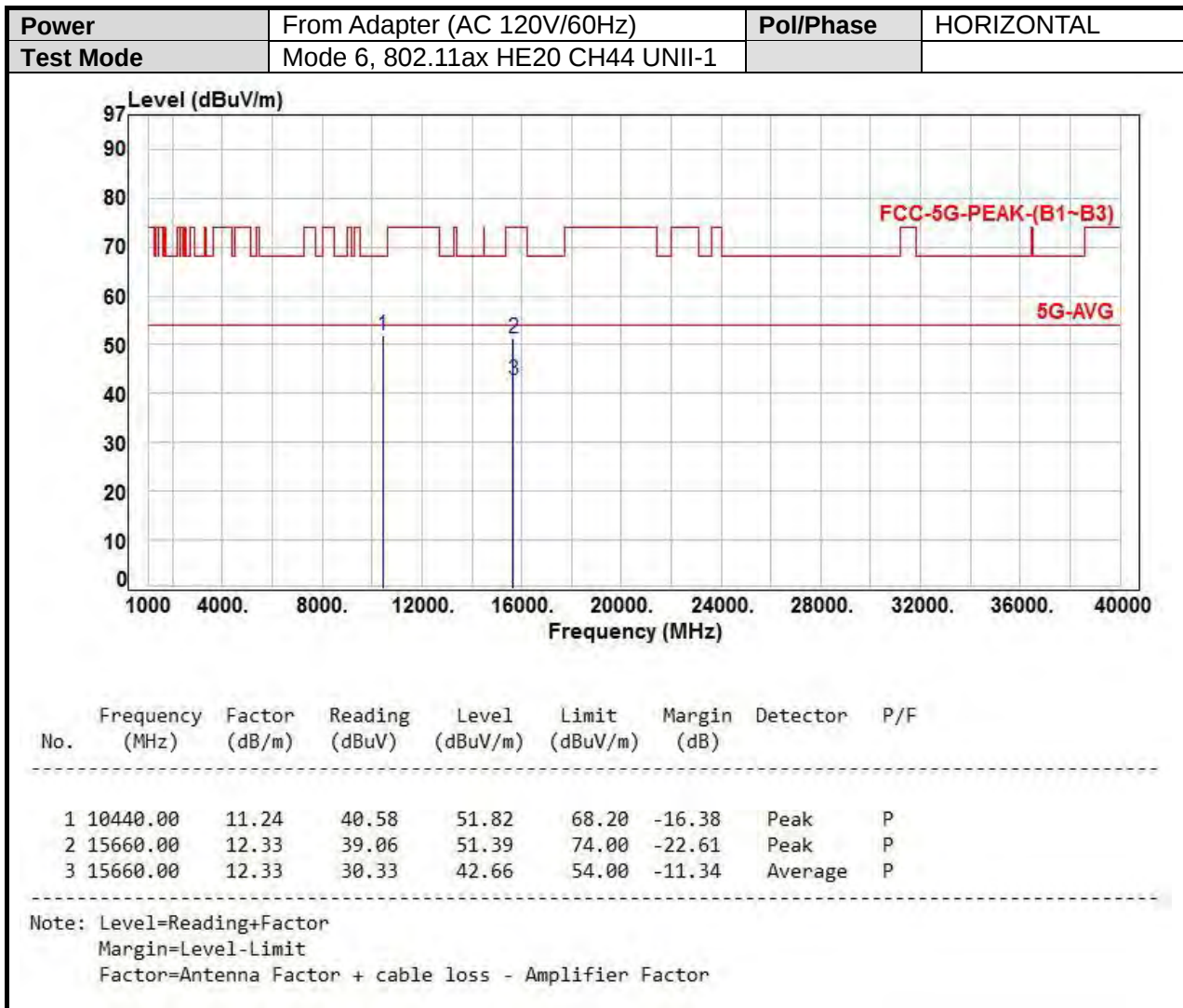


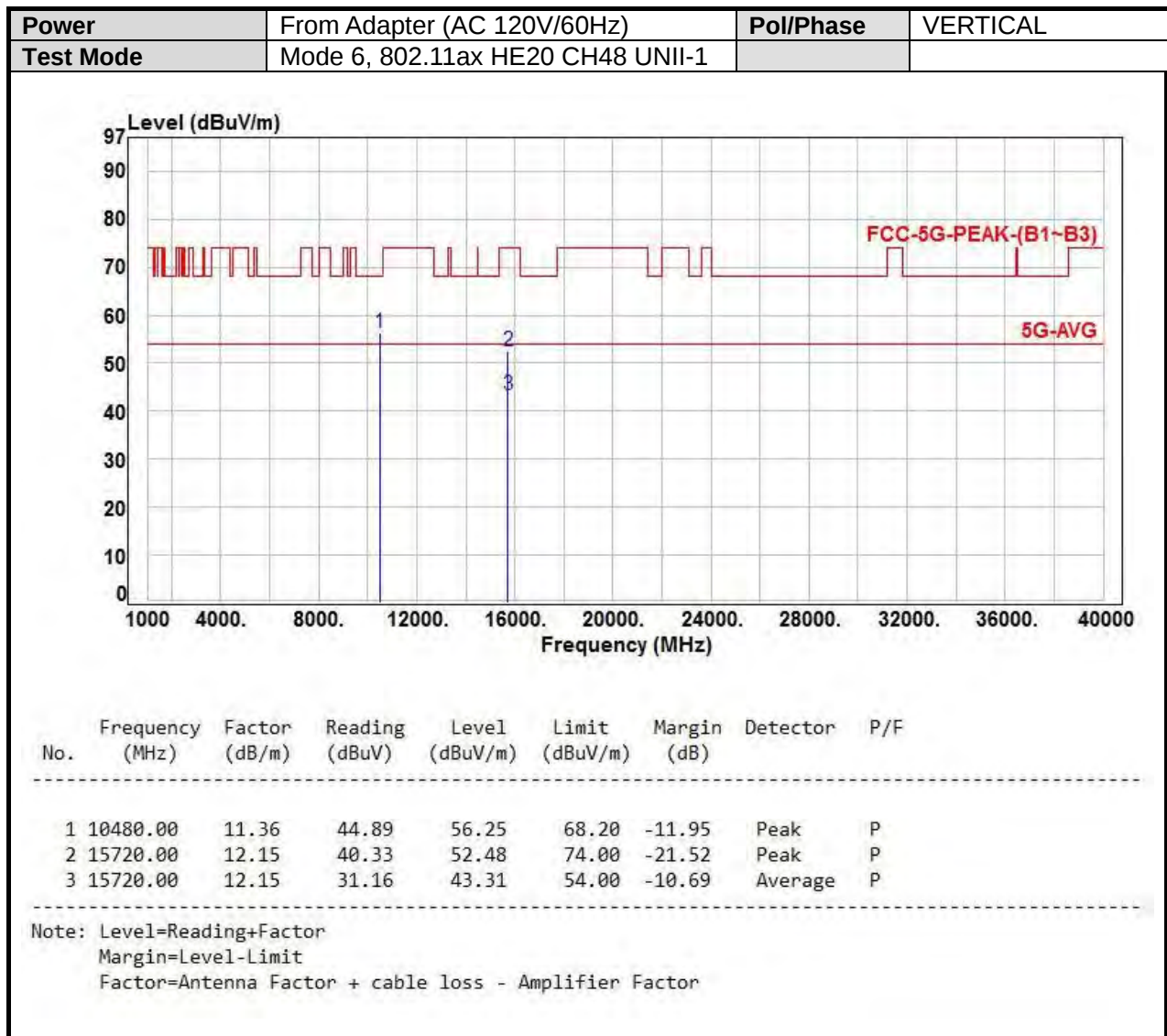


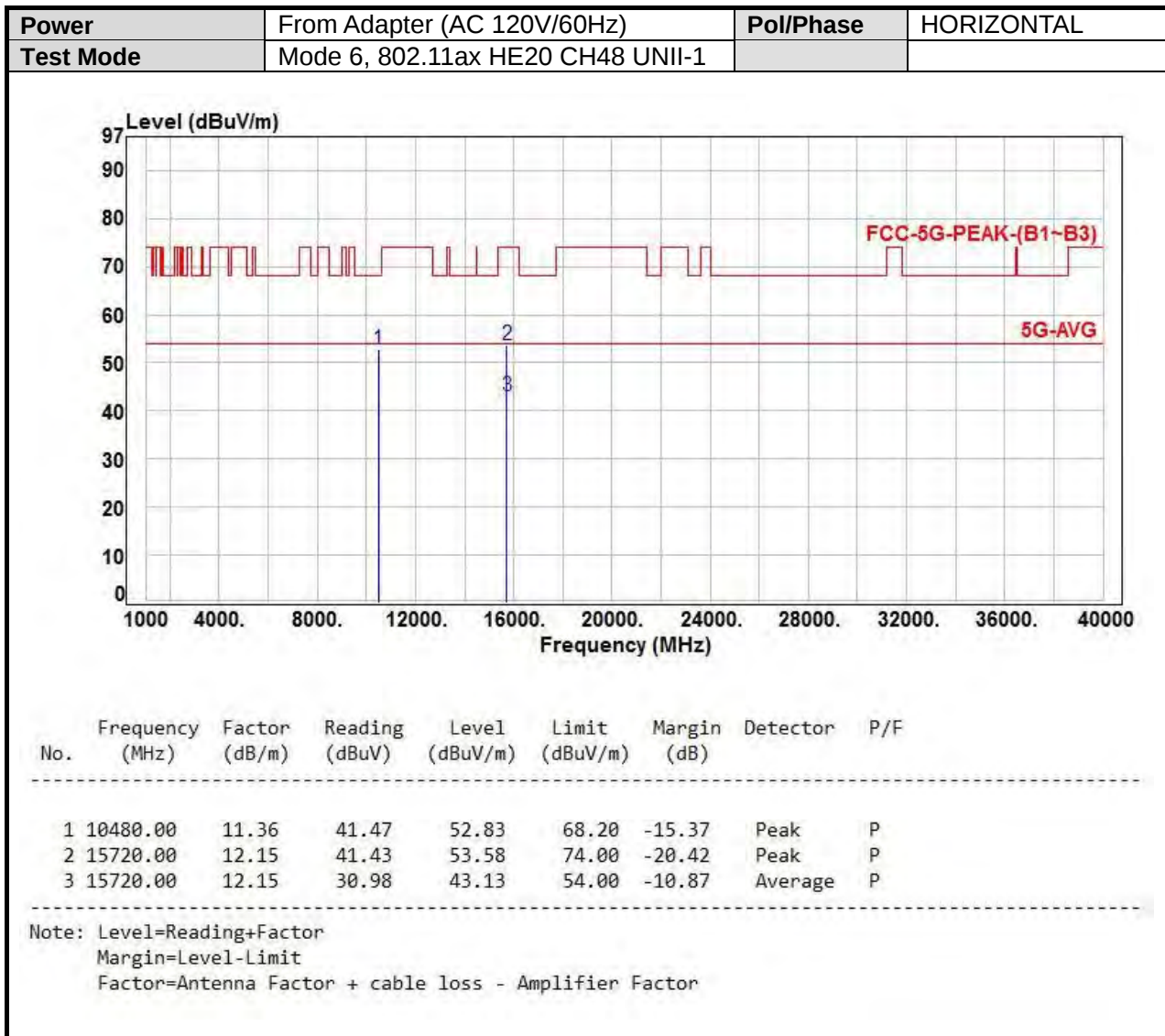


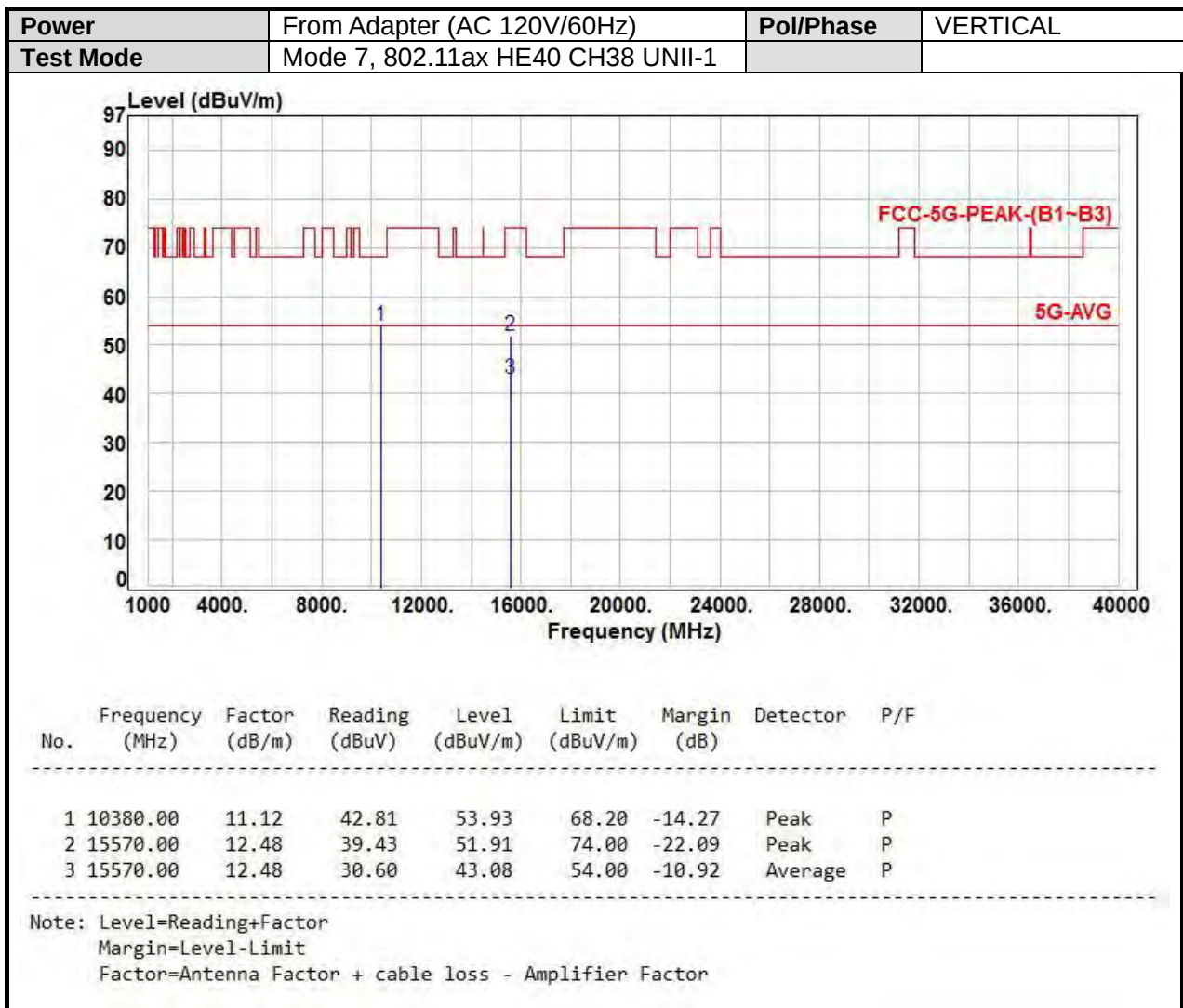


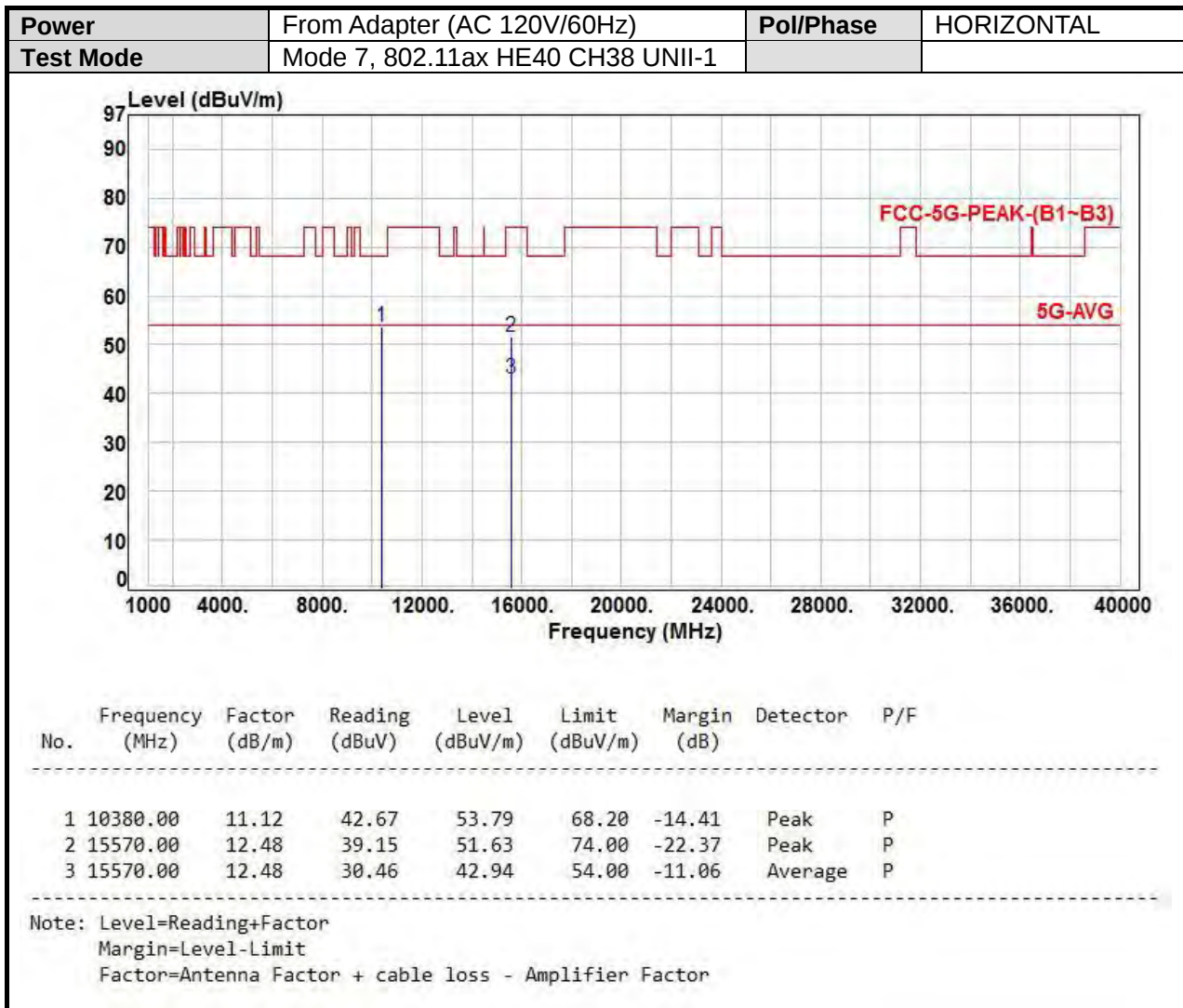


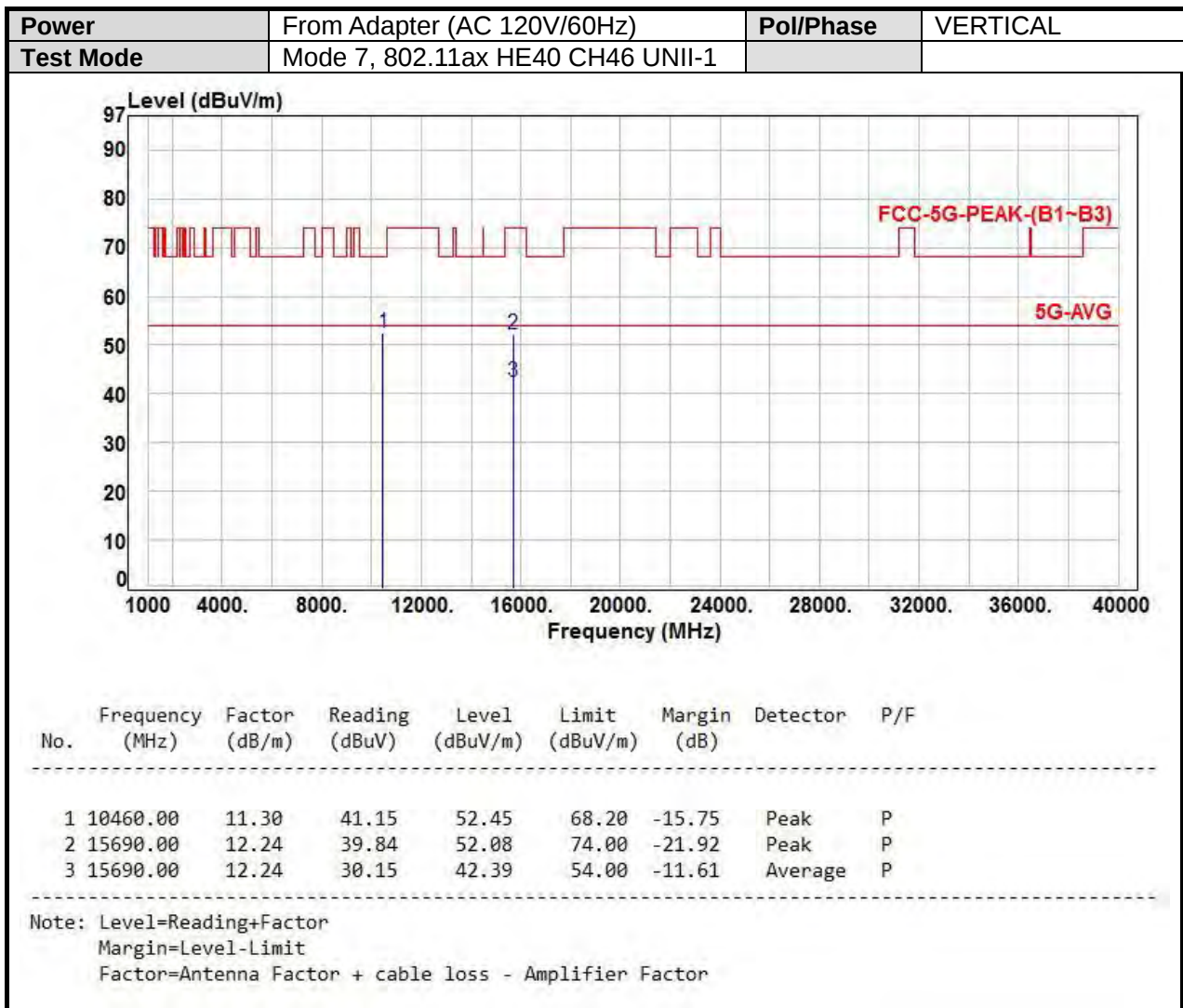


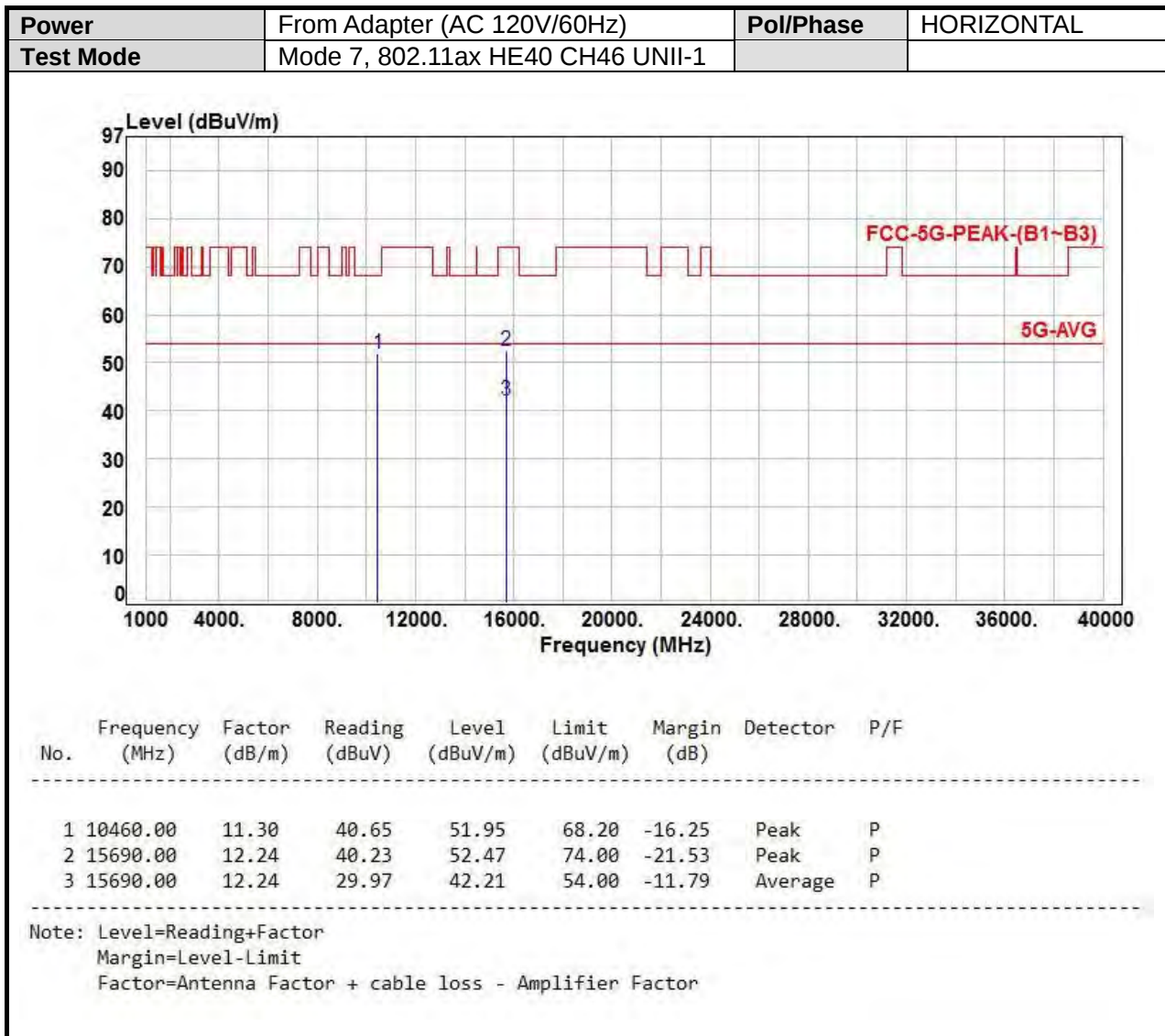






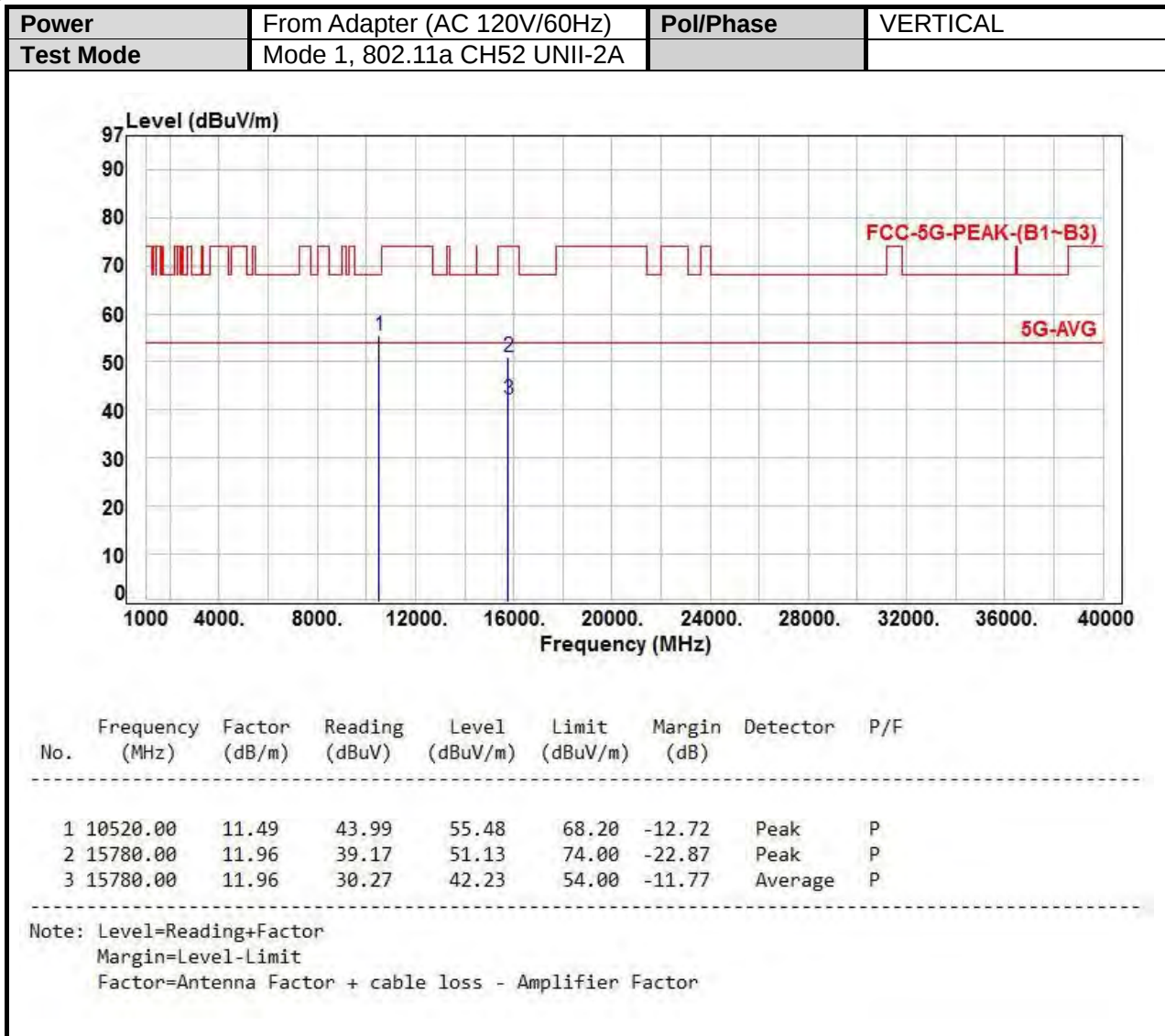


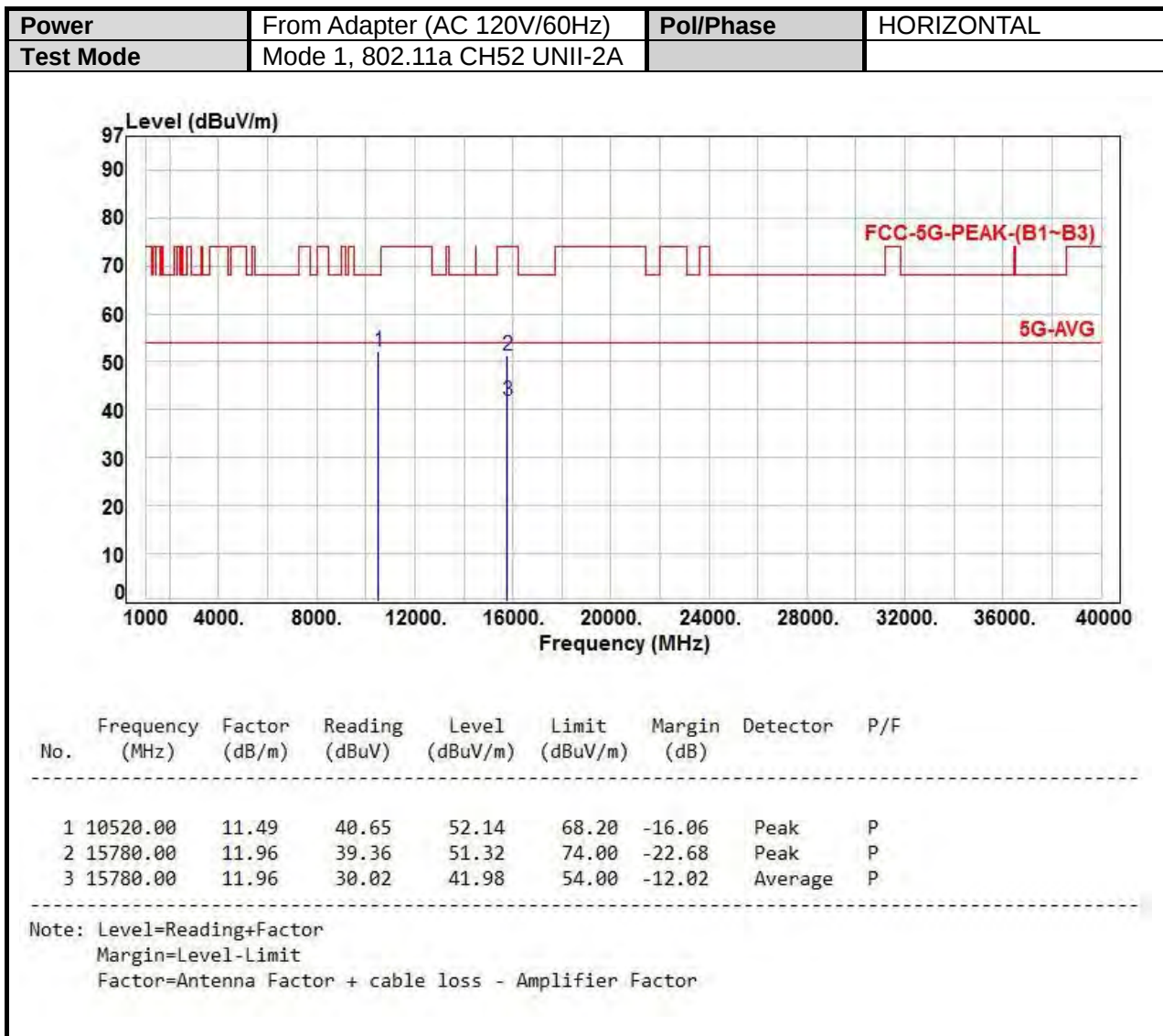


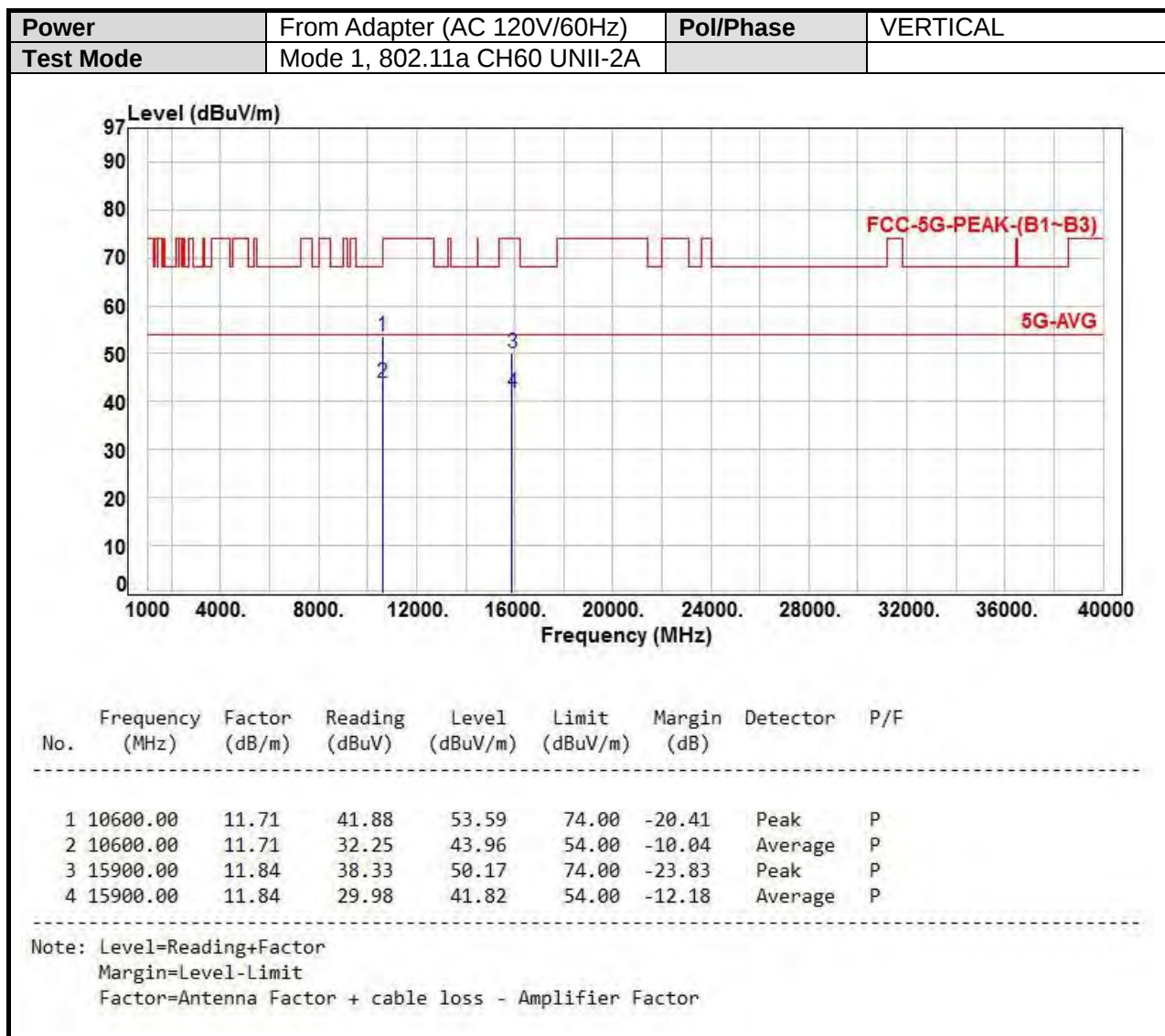


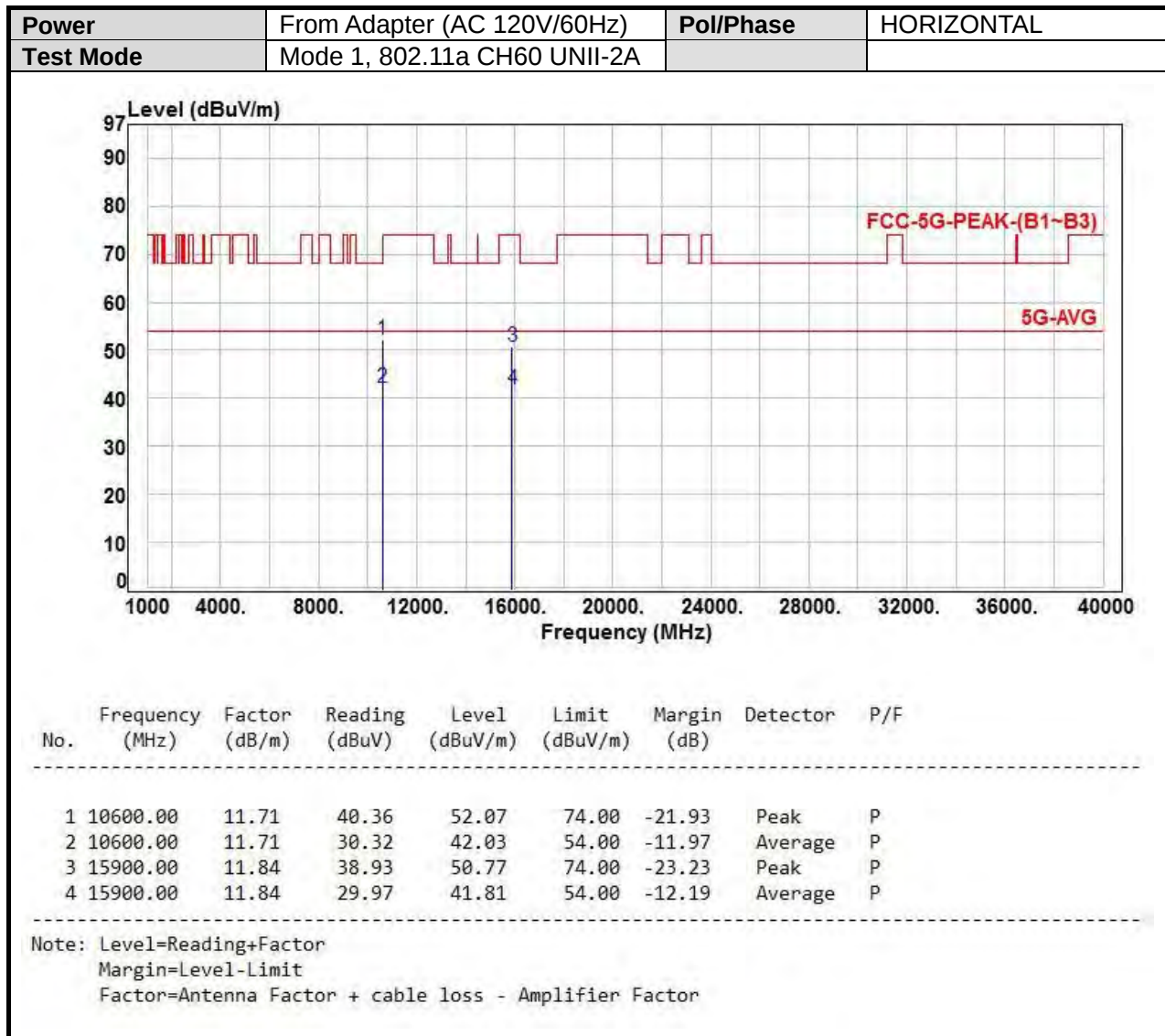


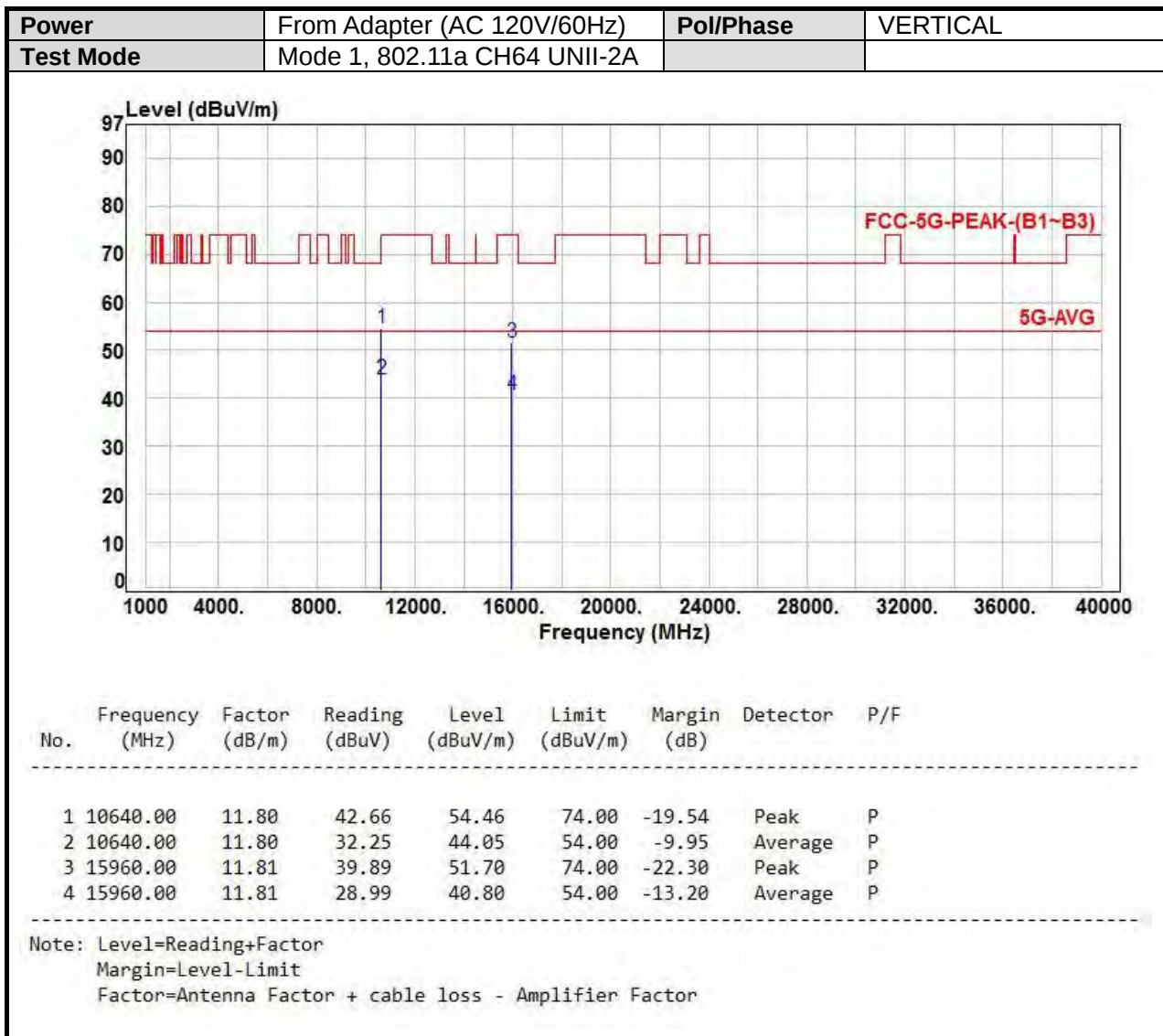
UNII-2A

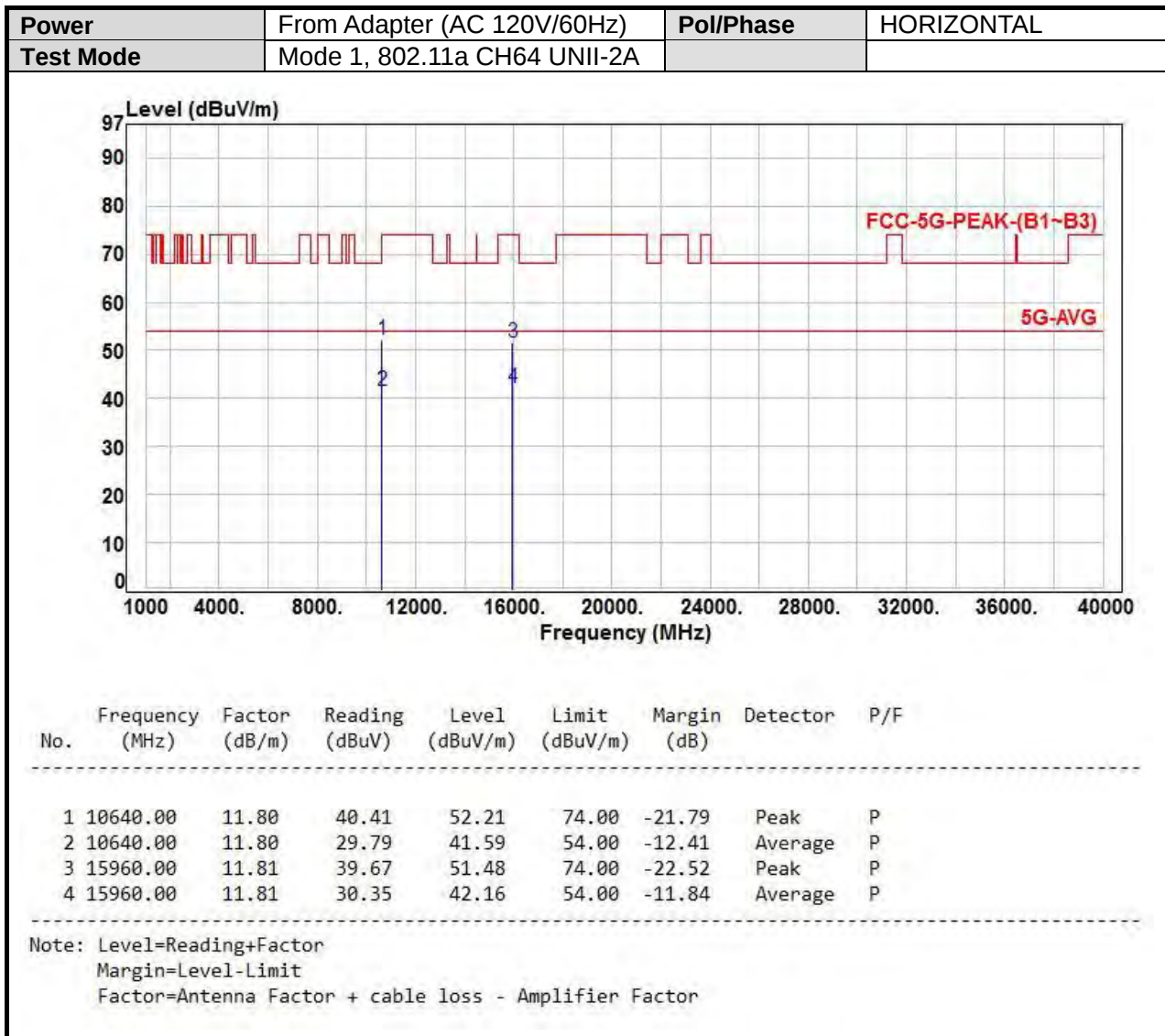


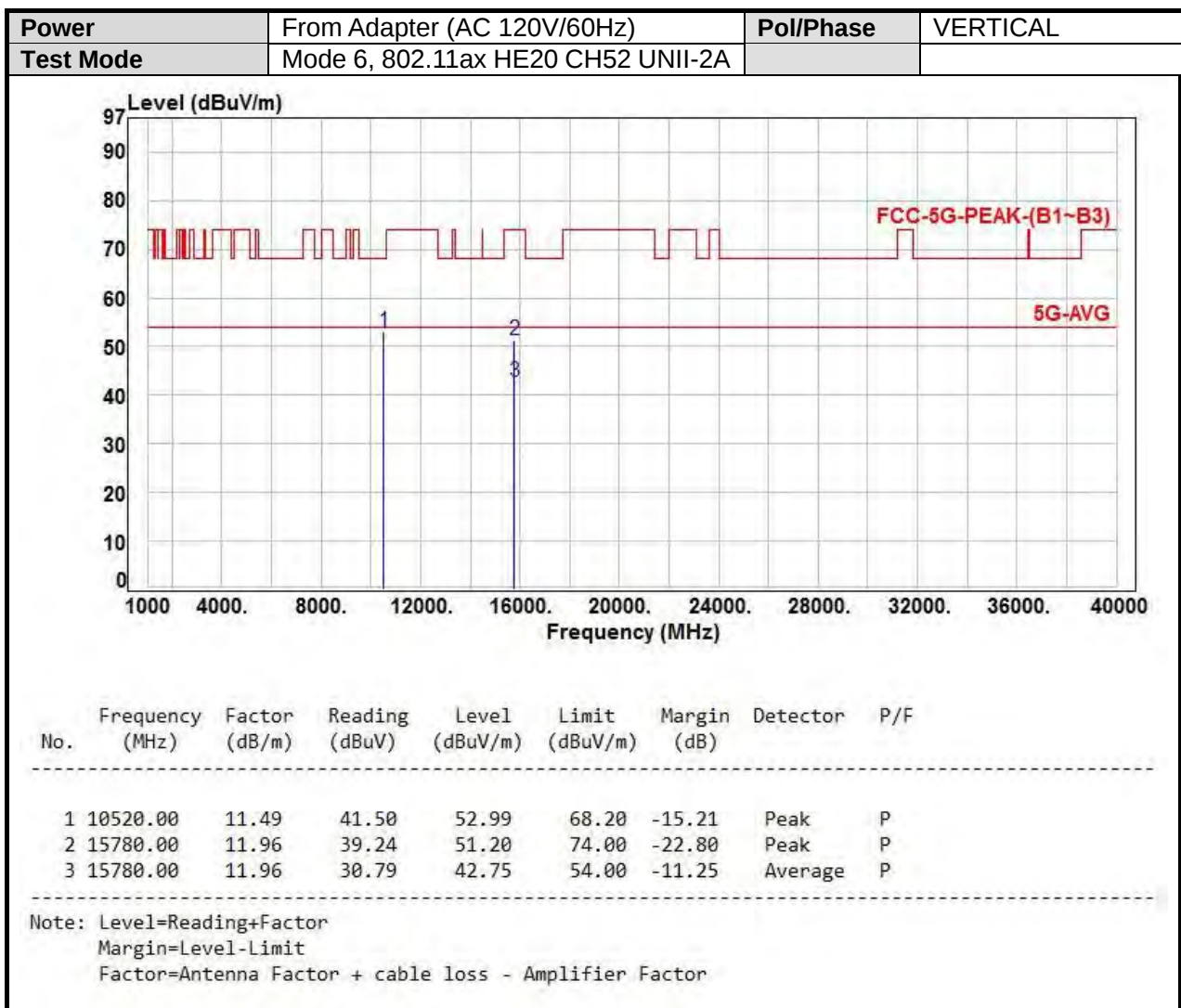


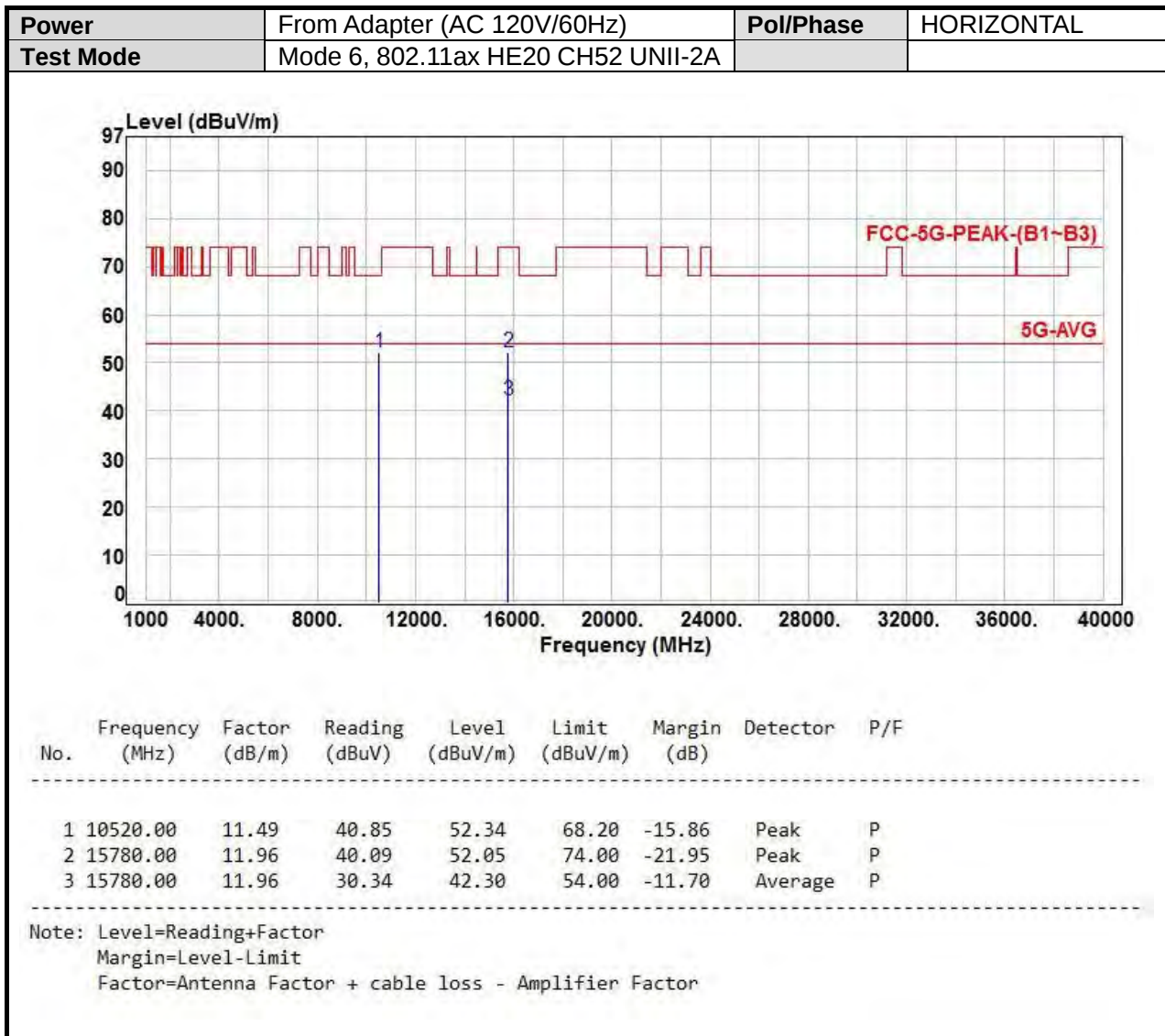


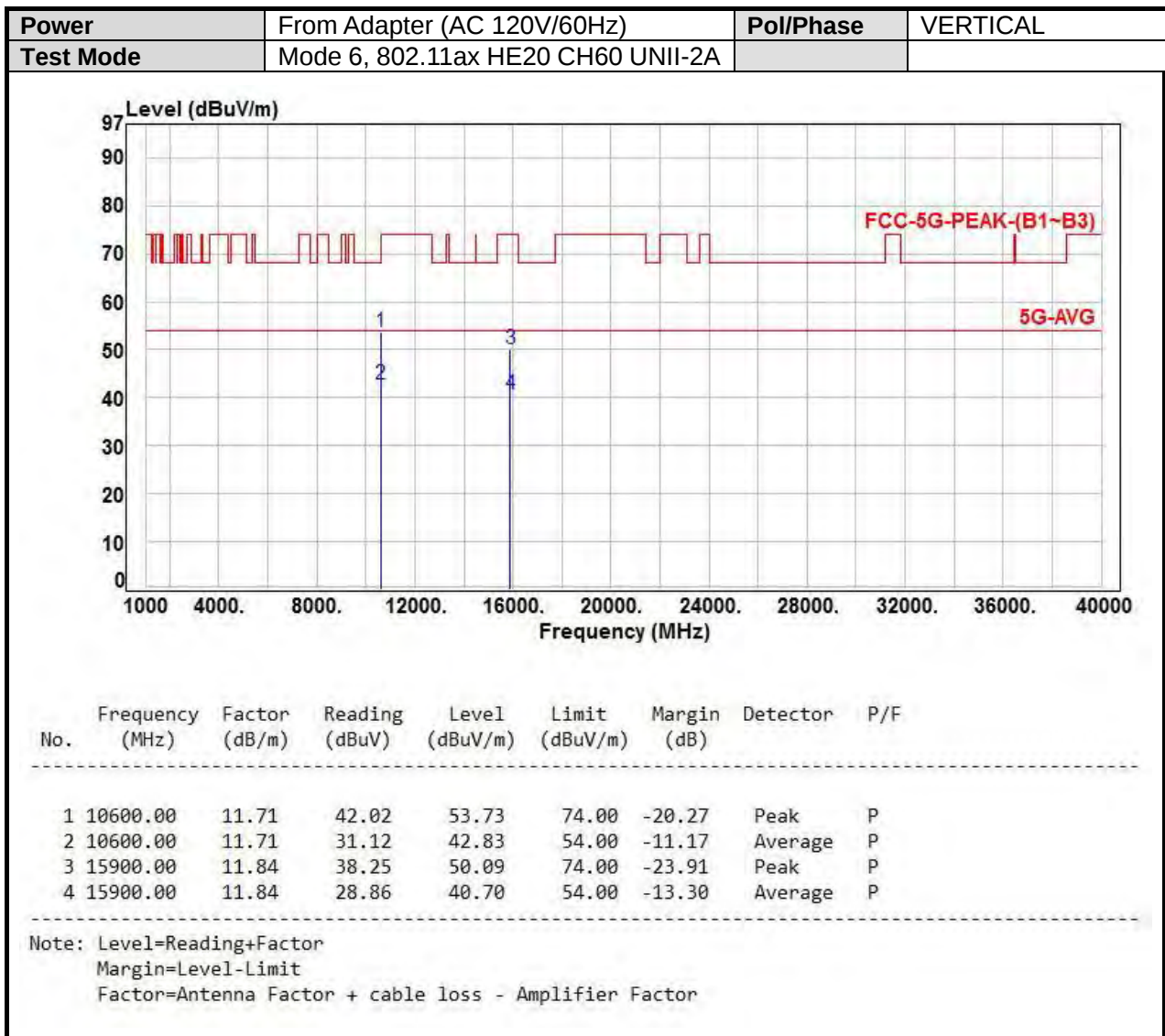


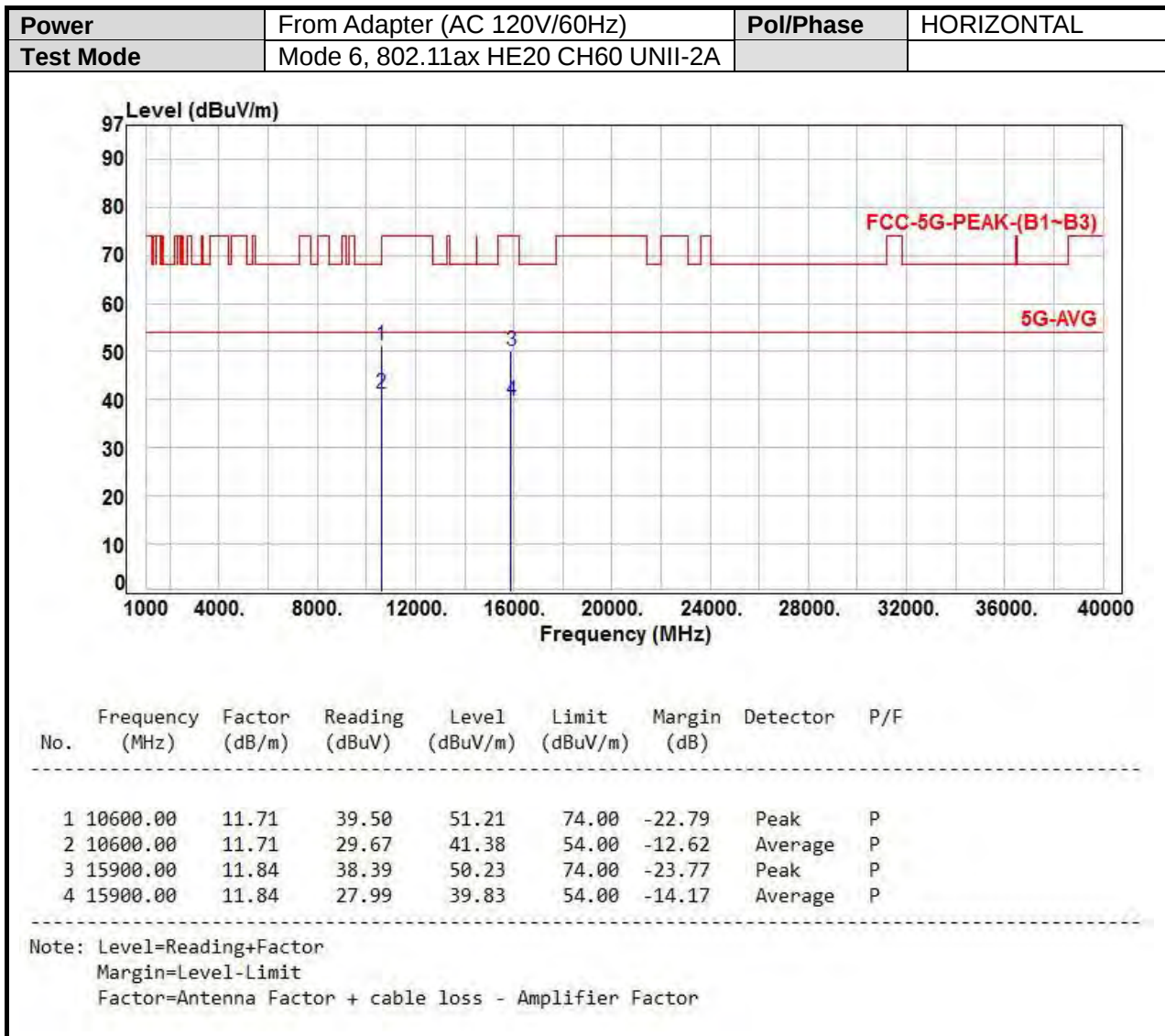


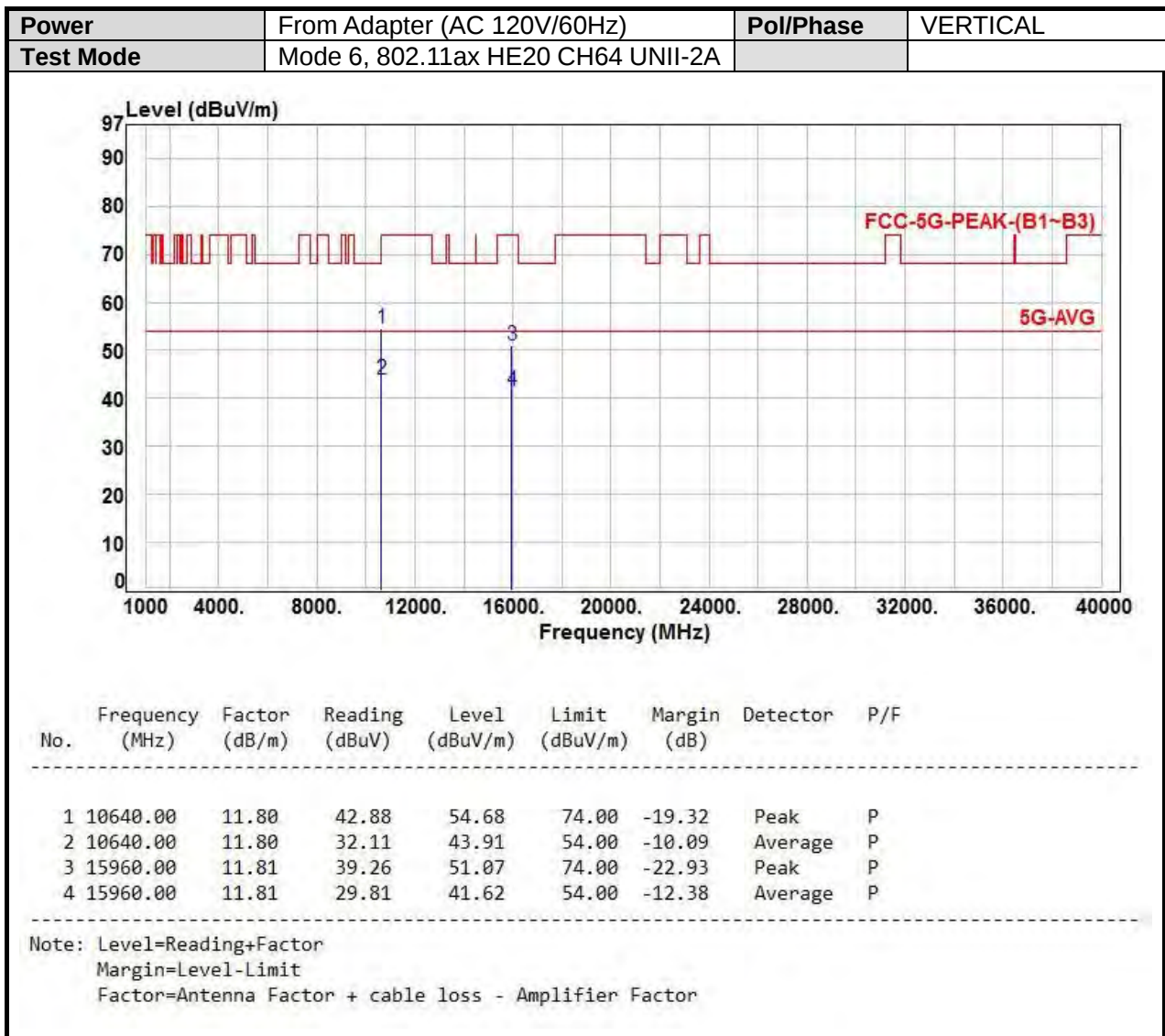


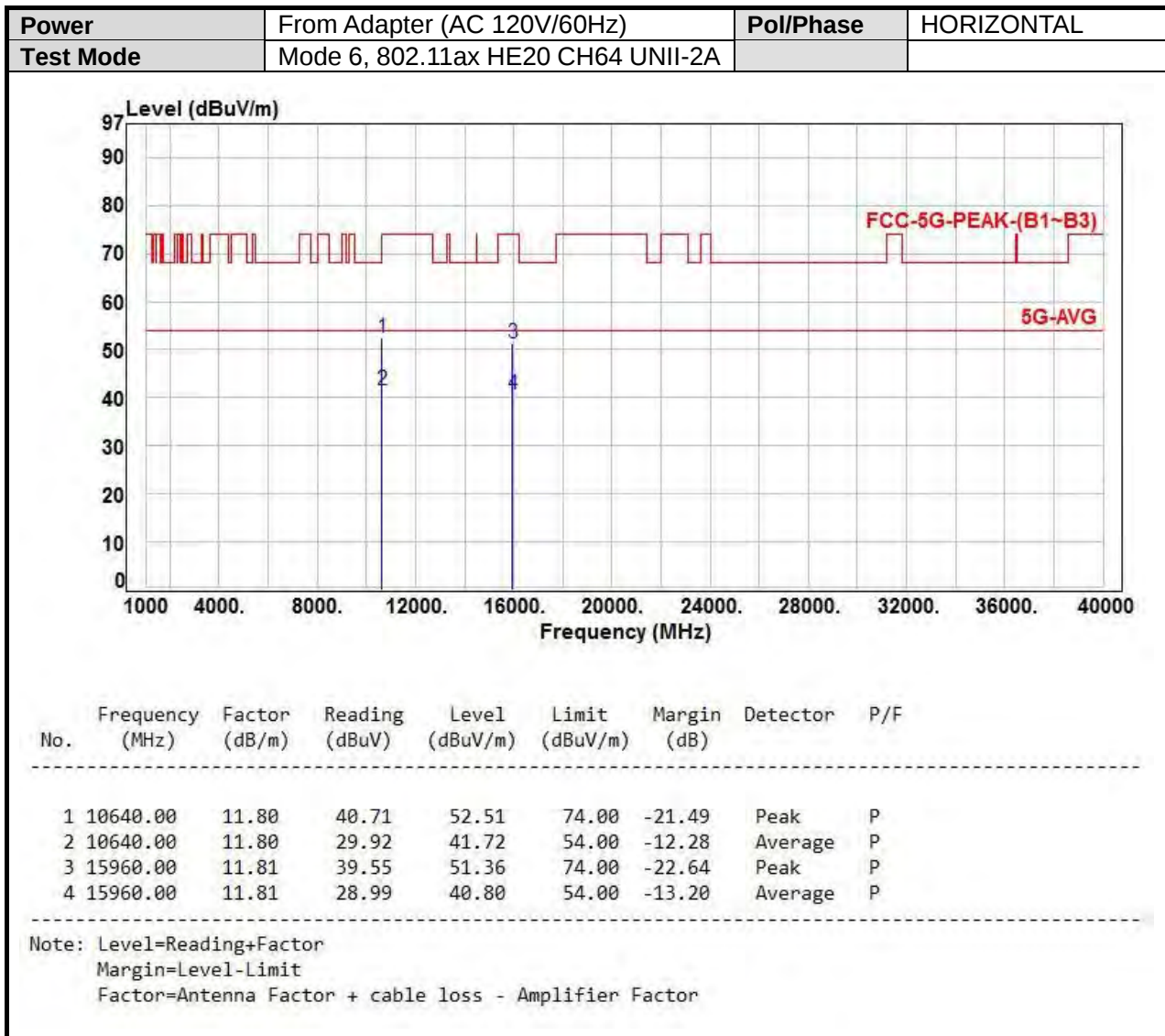


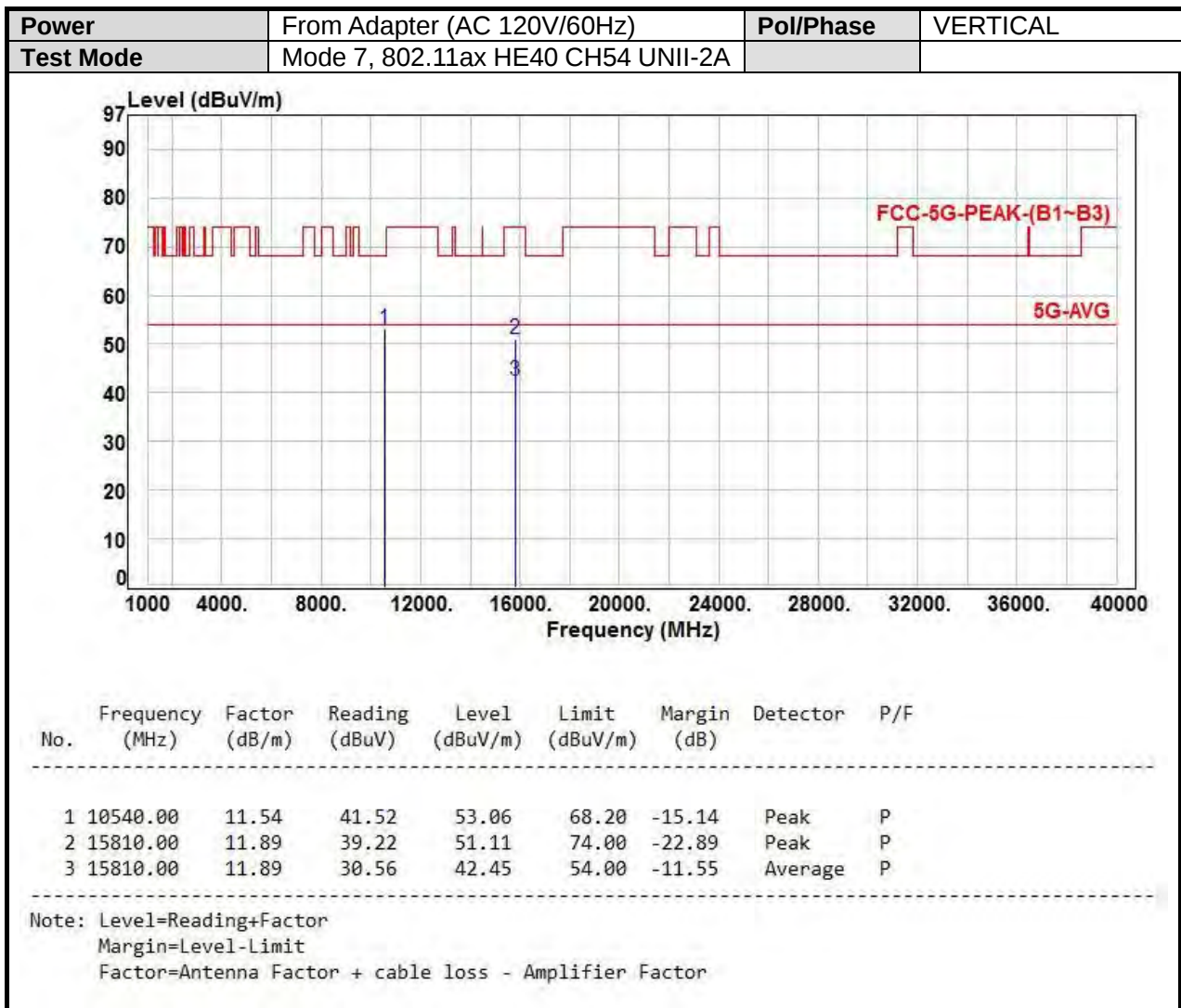


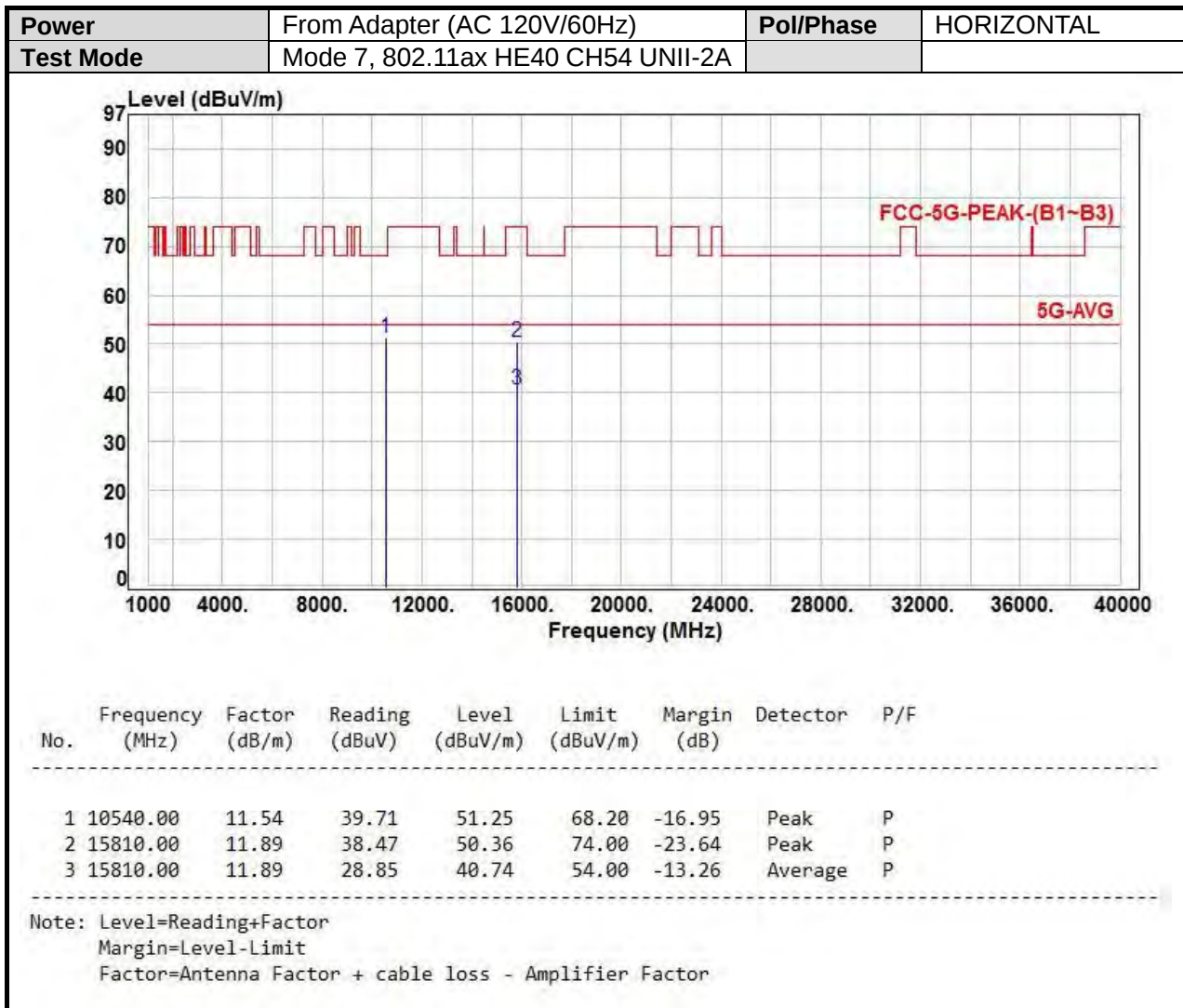


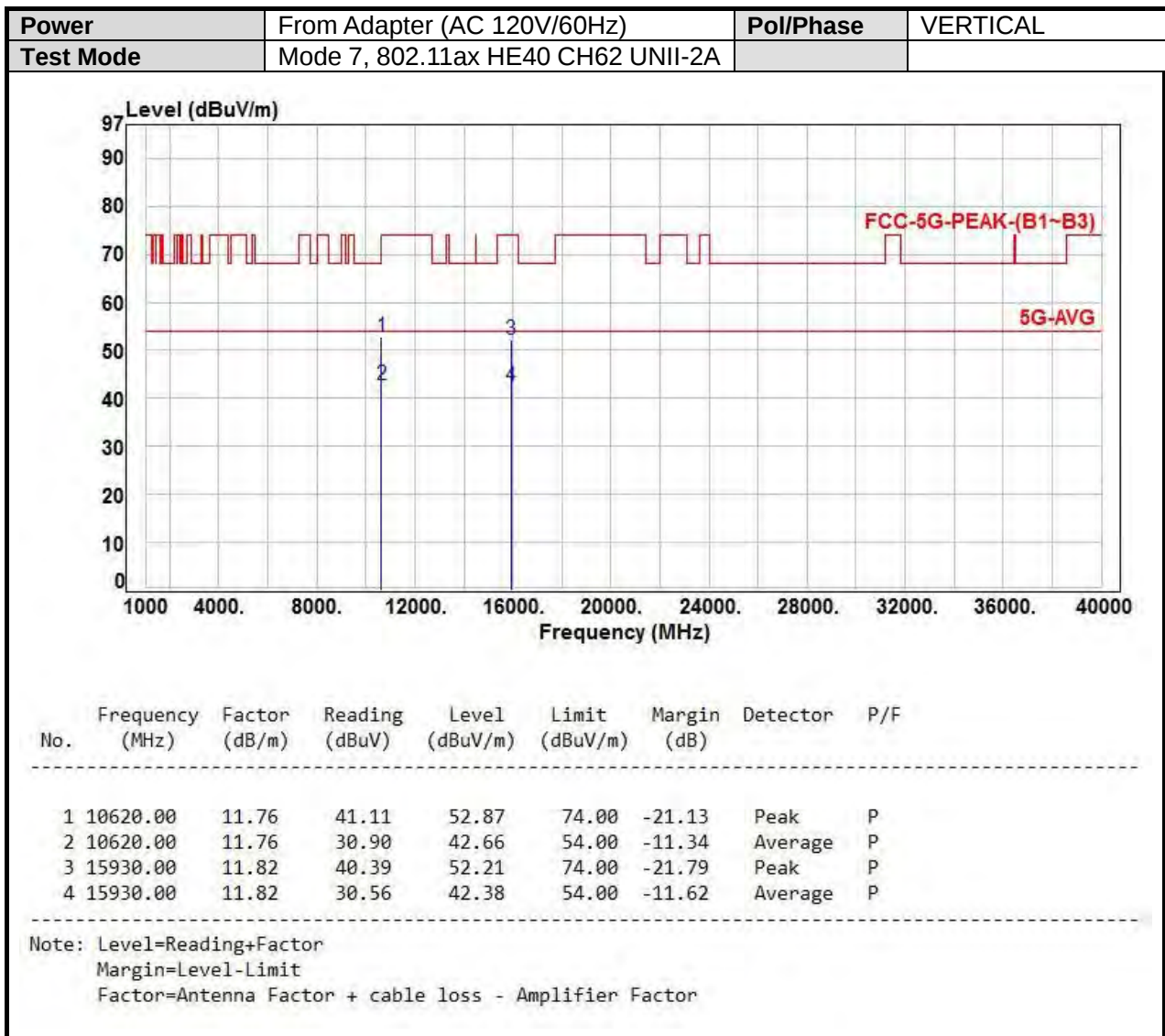


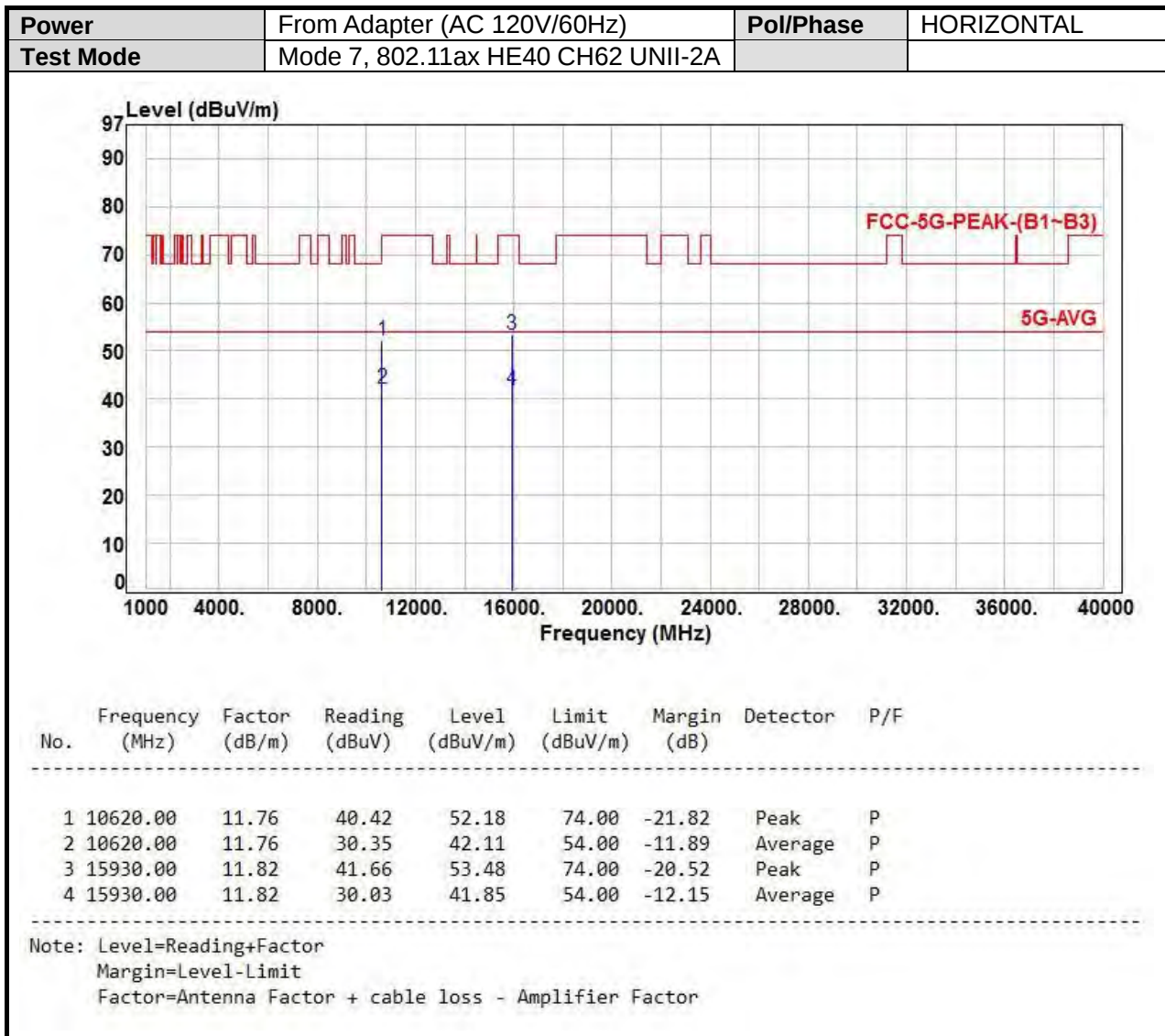






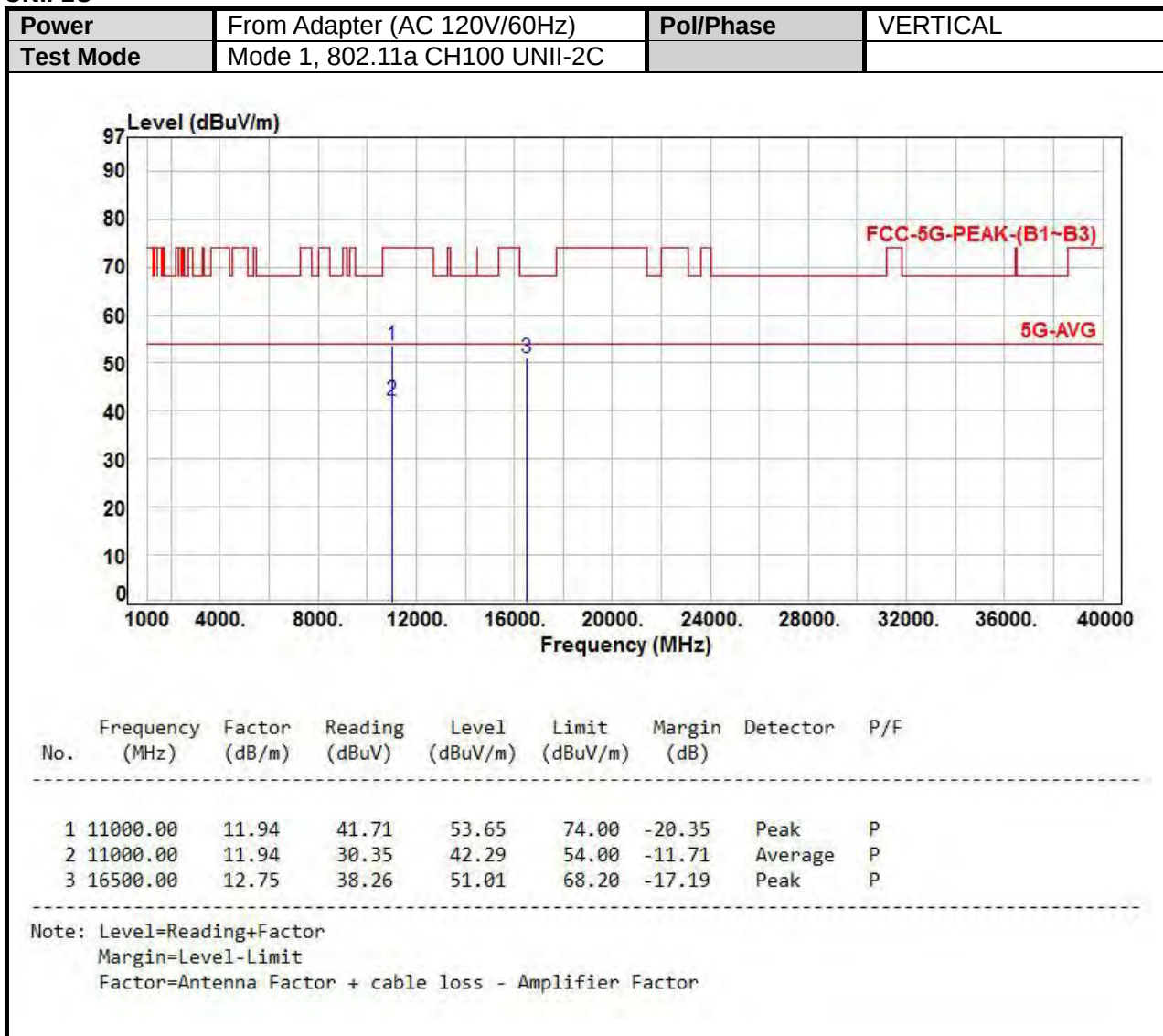


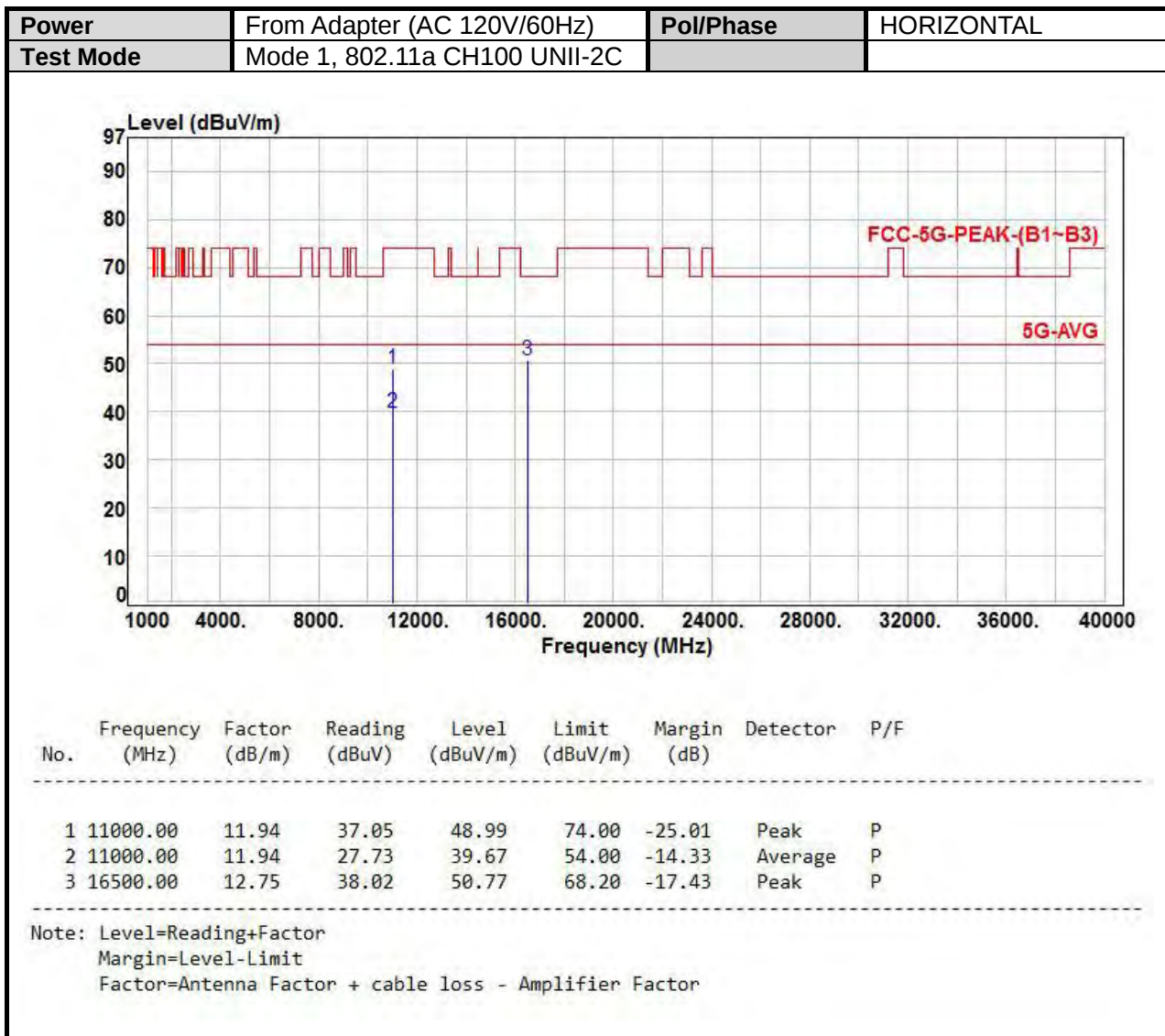


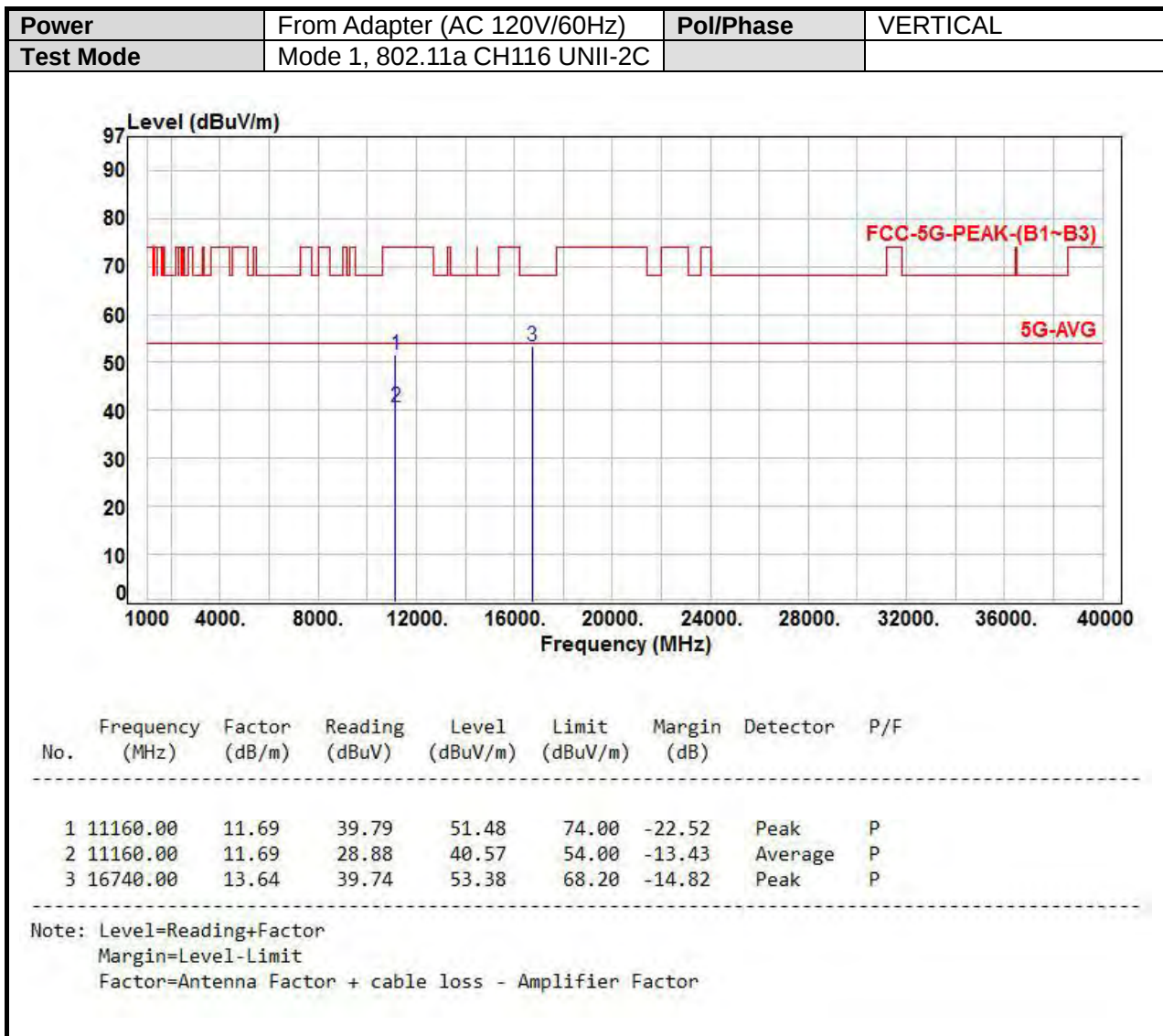


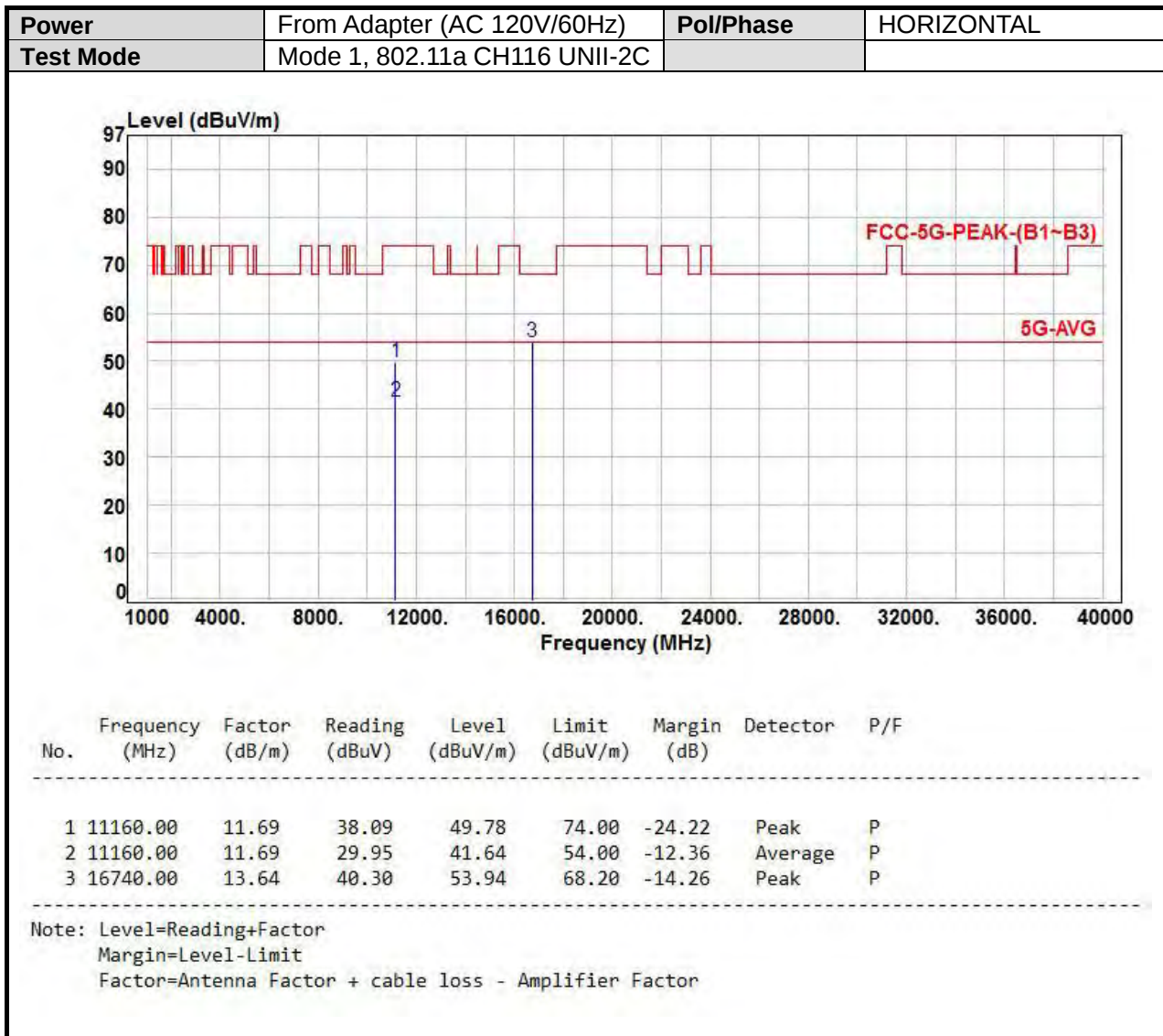


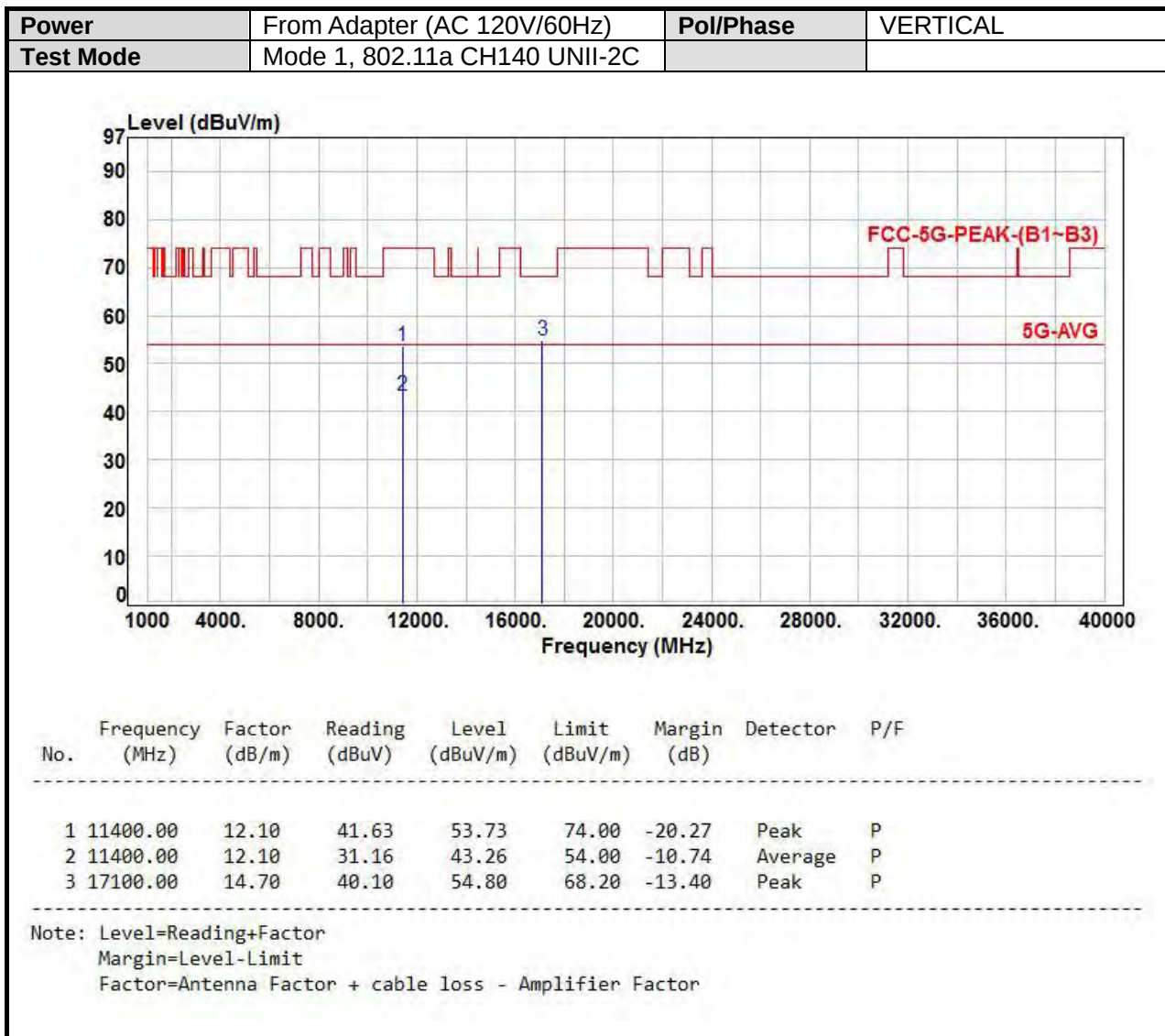
UNII-2C

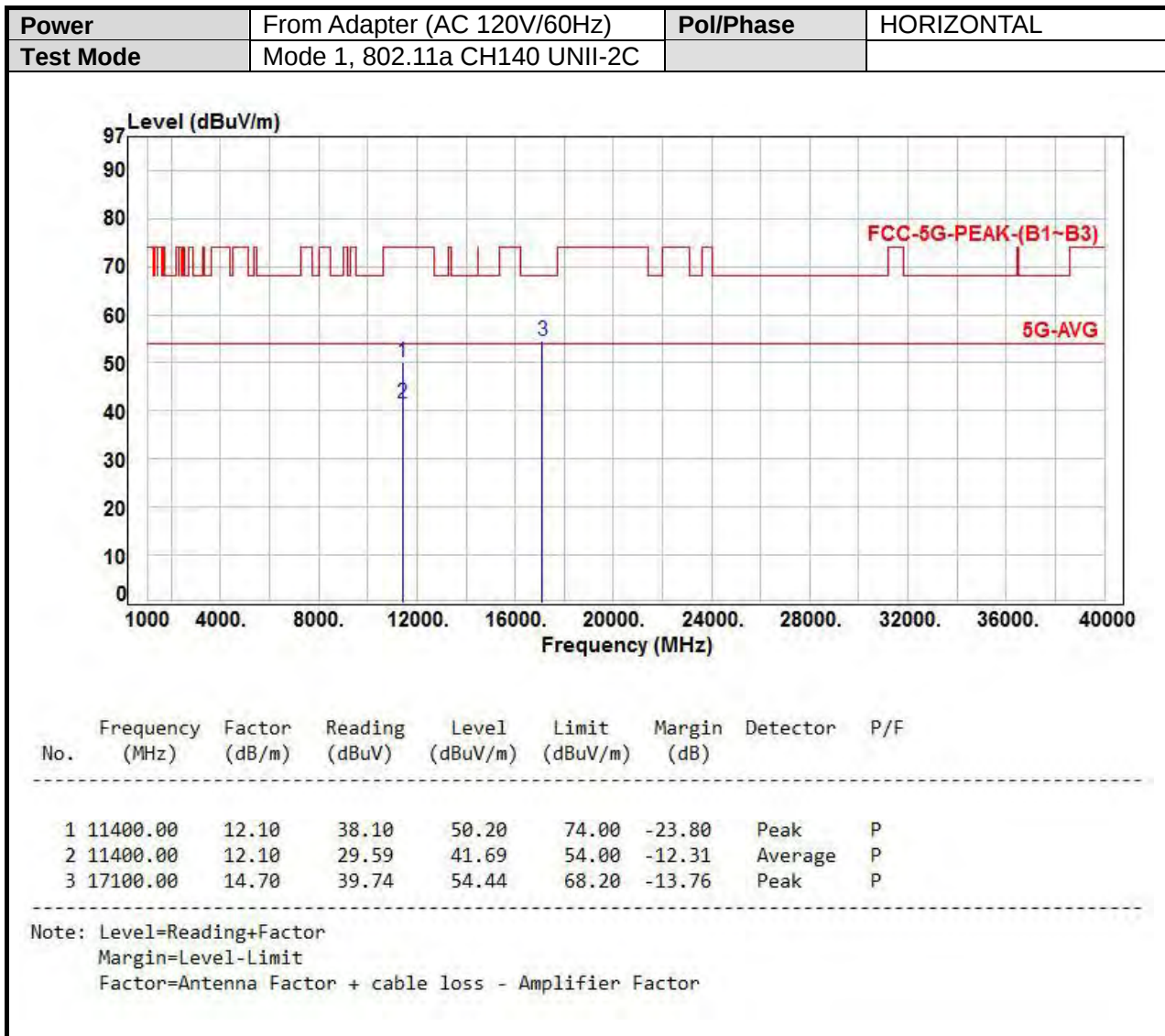


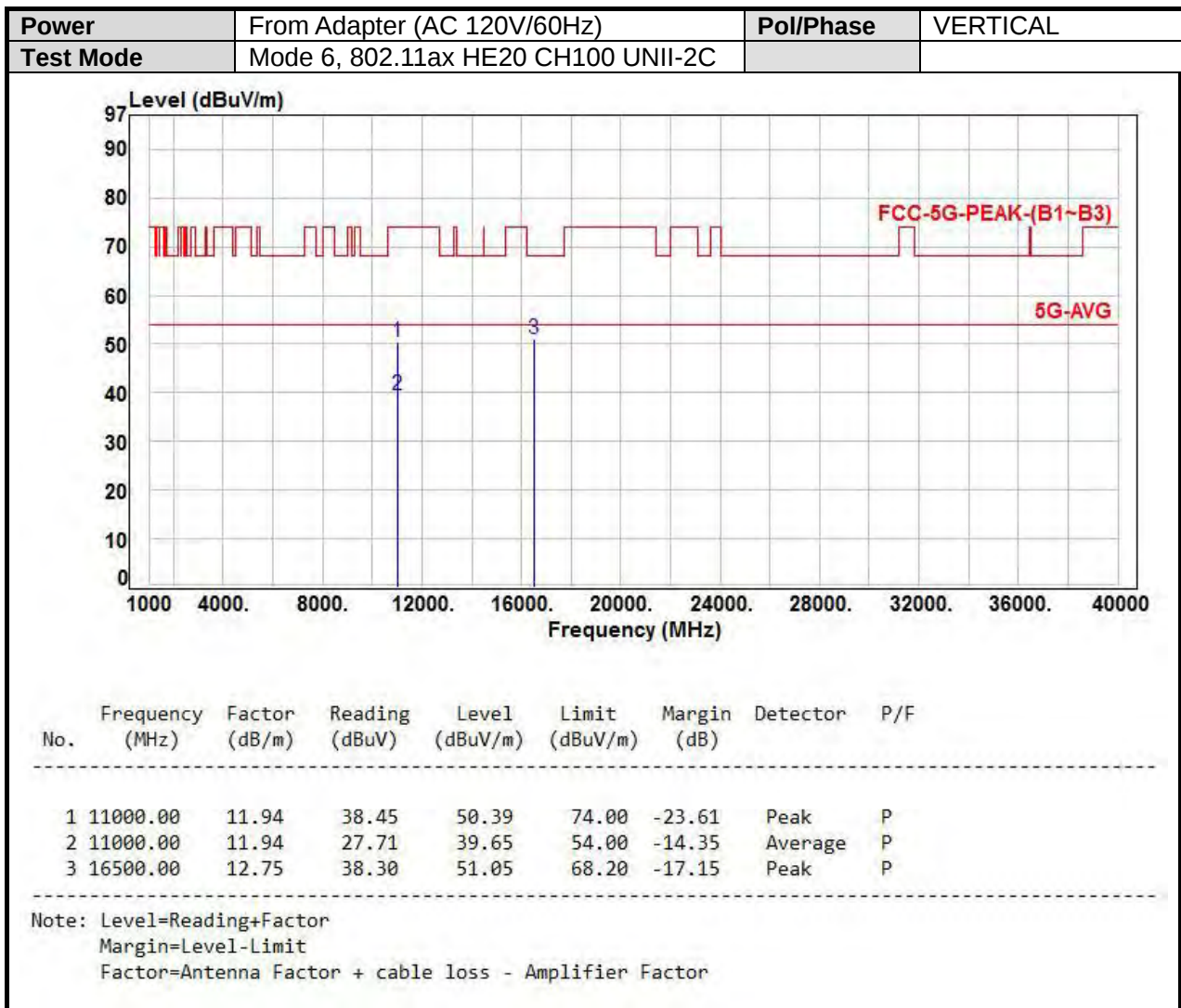


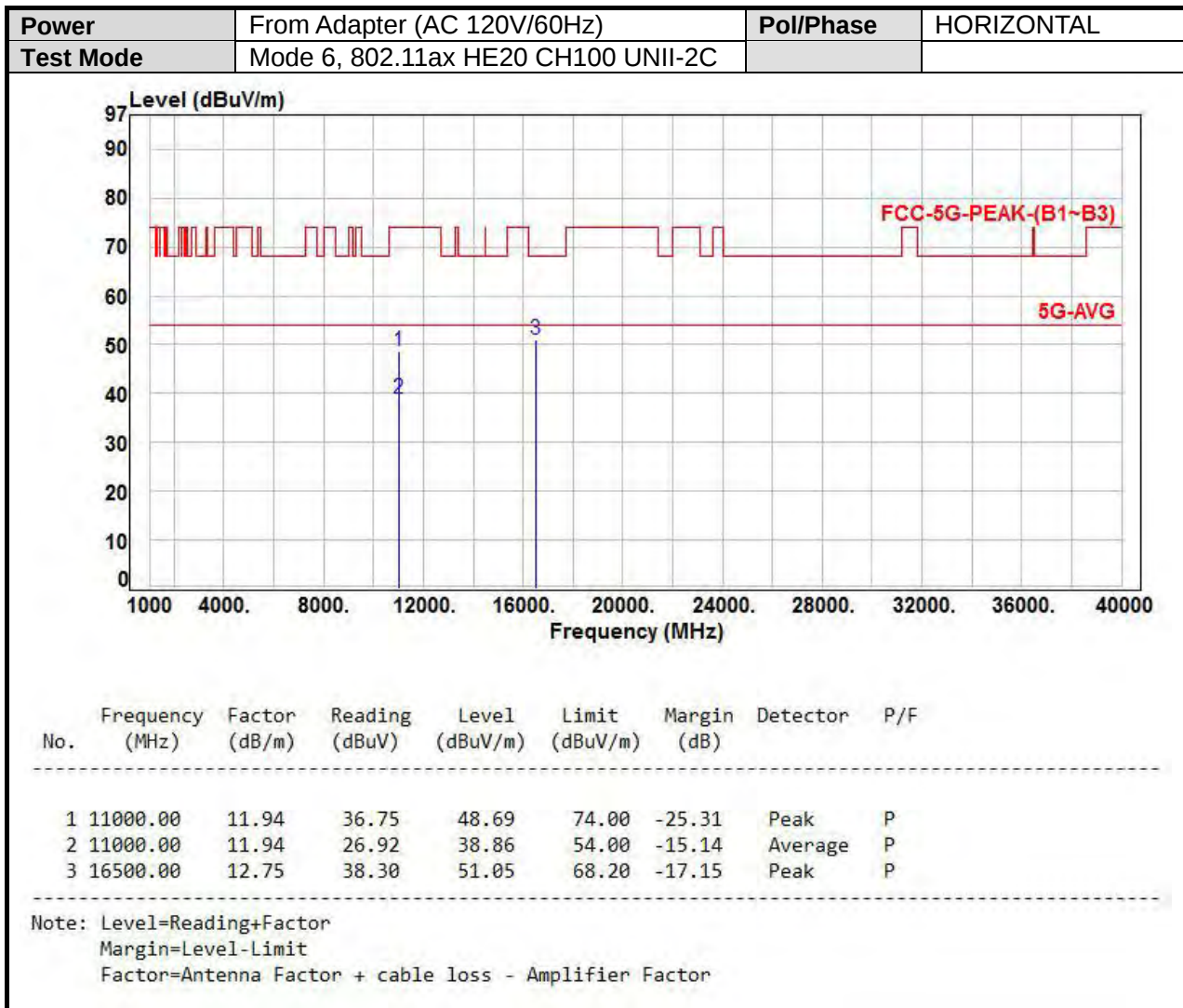


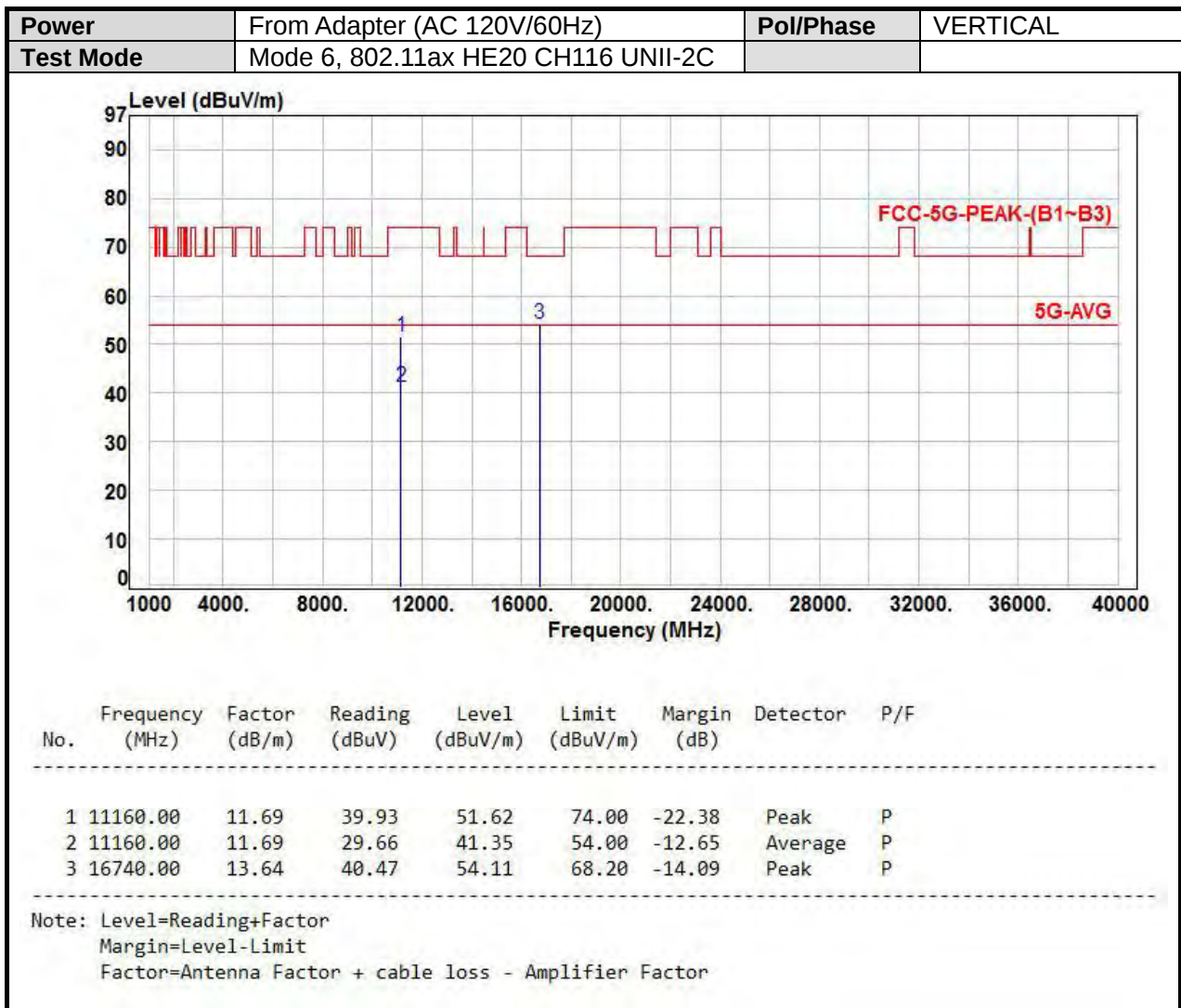


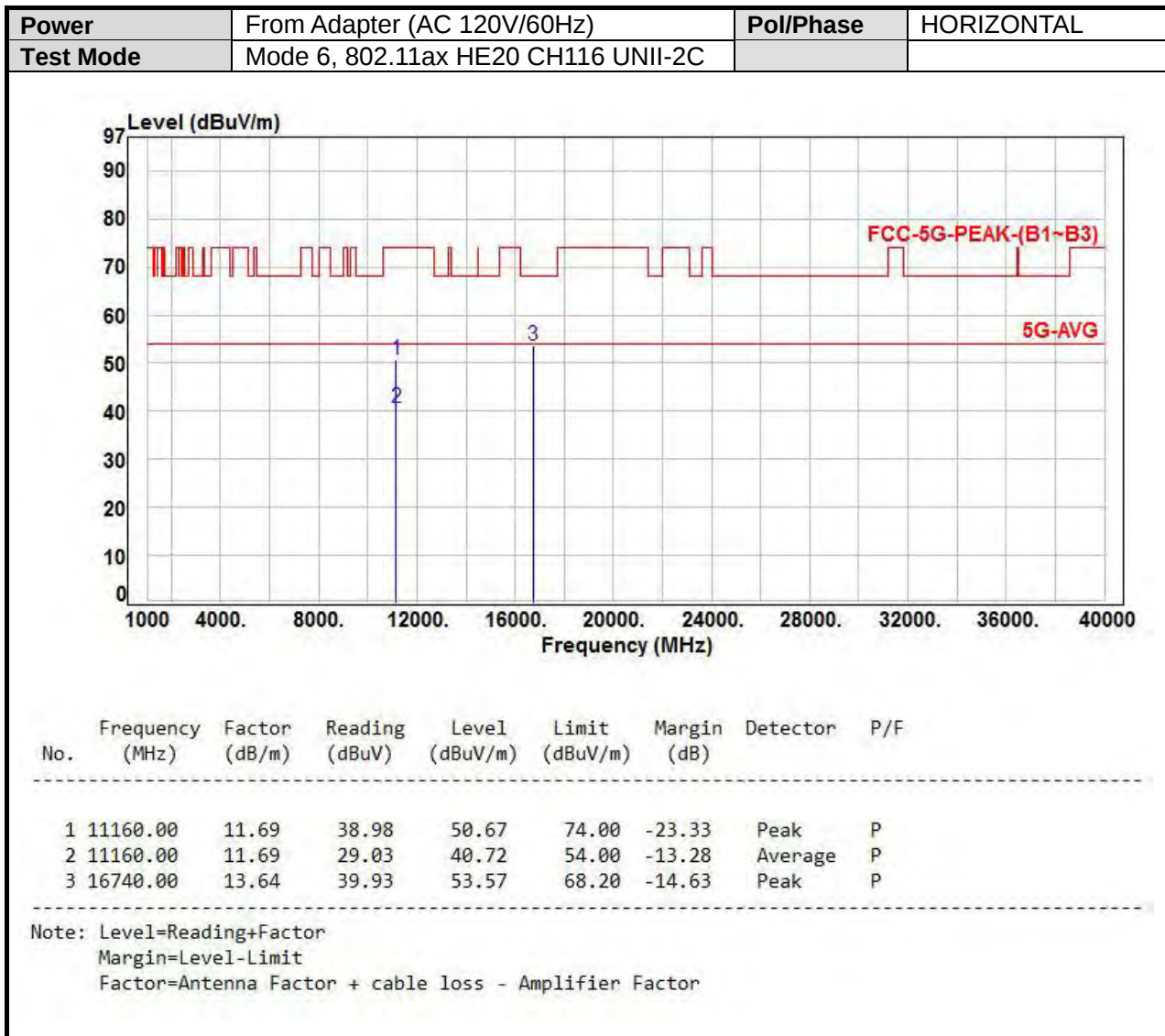


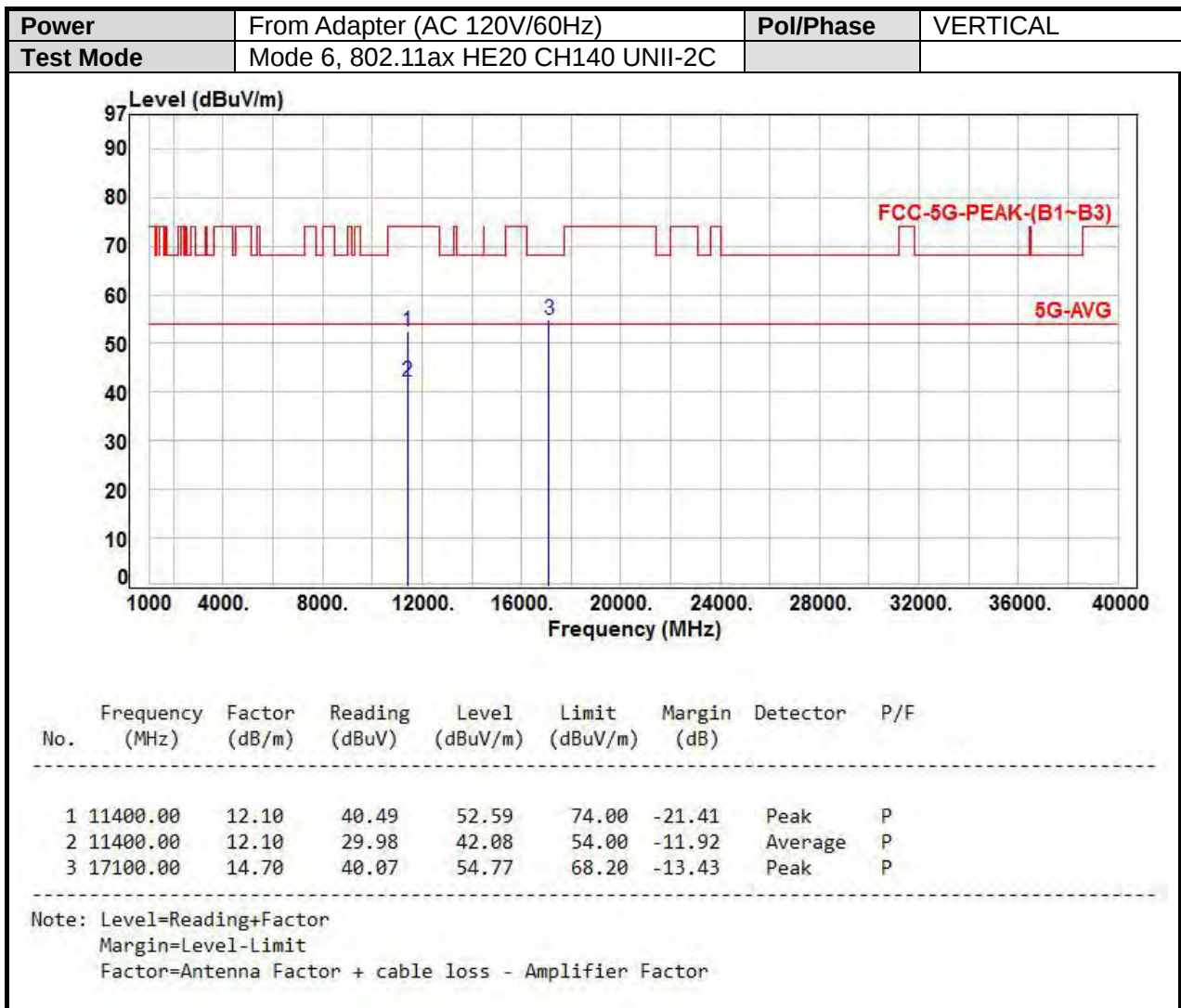


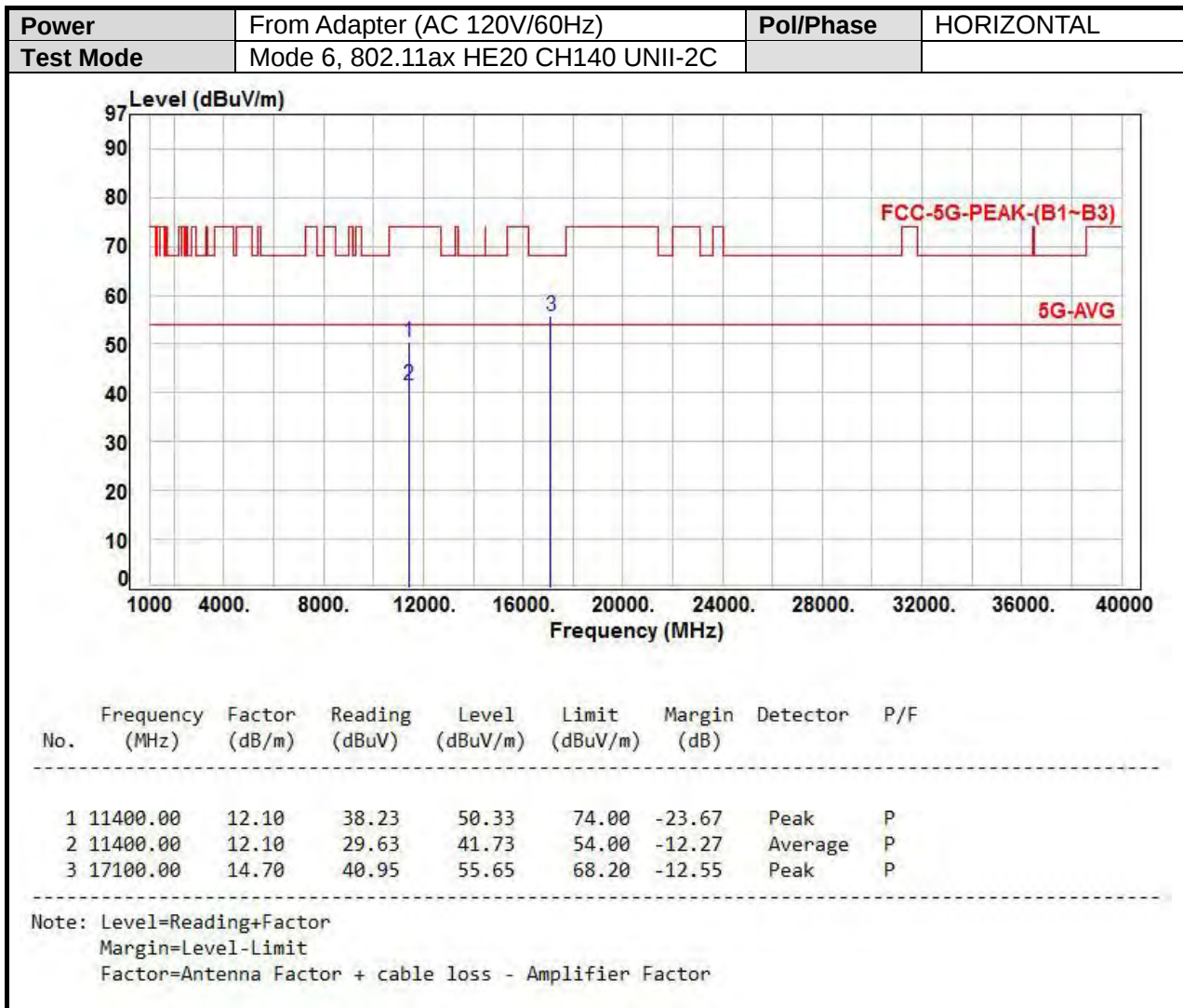


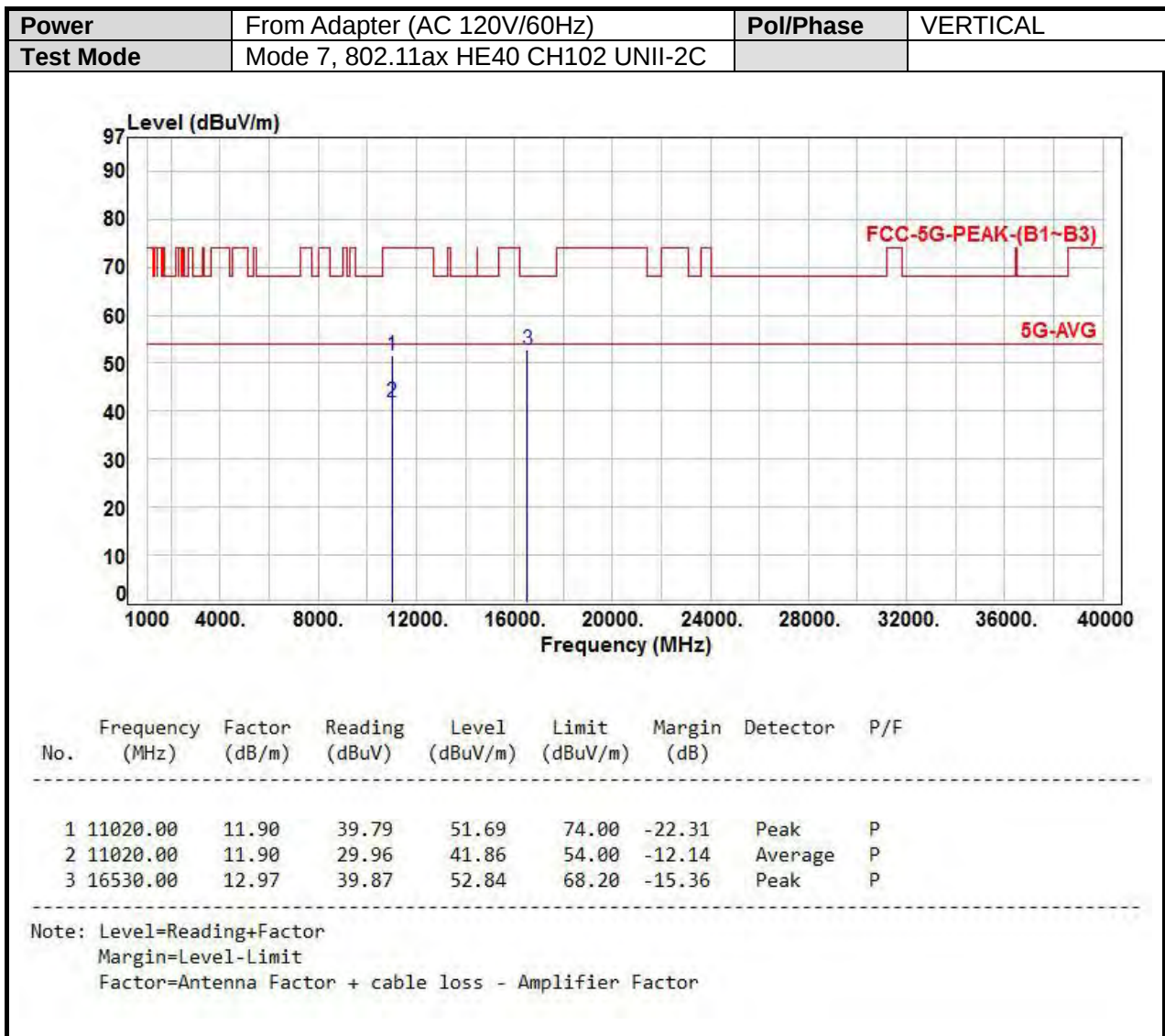


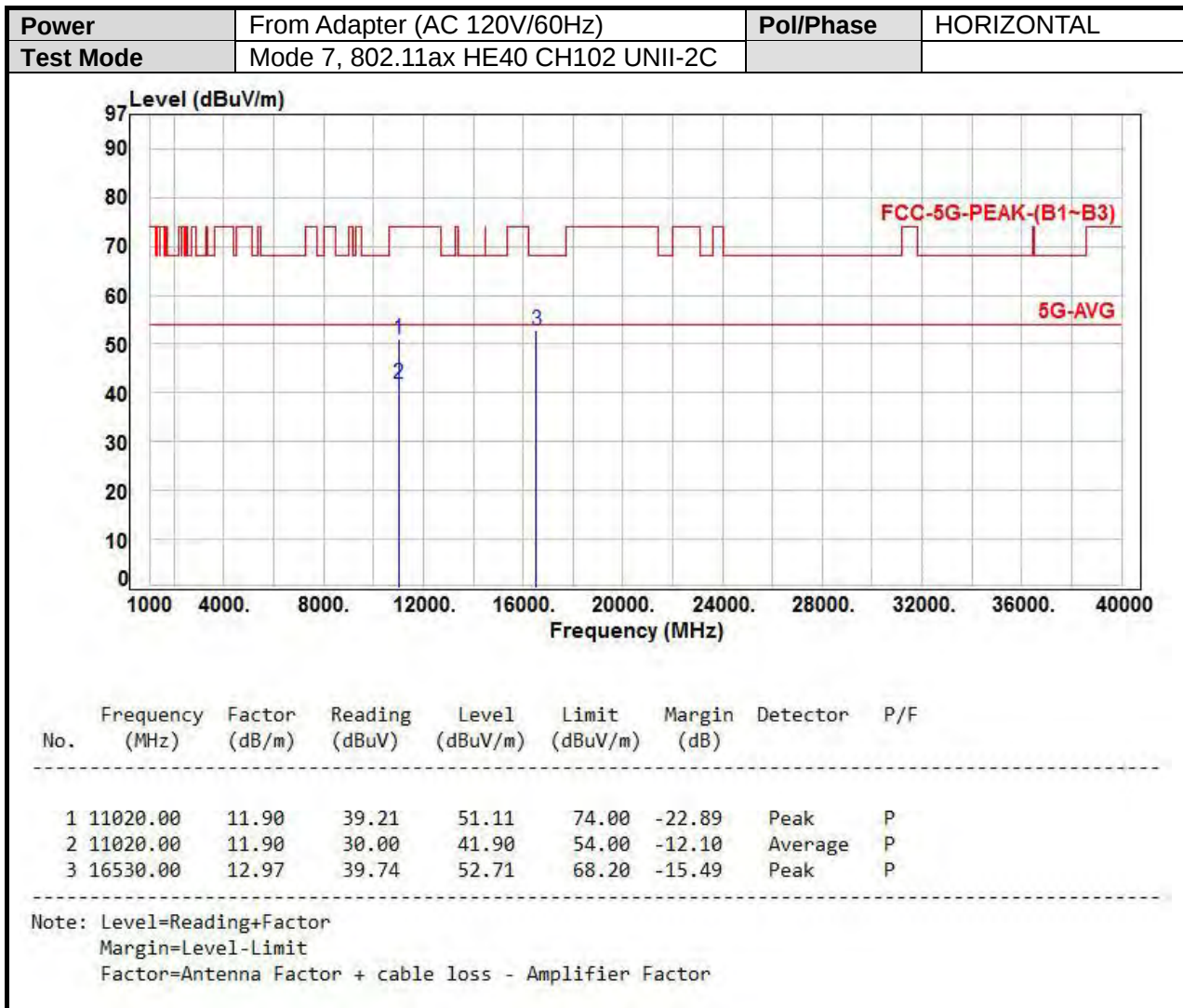


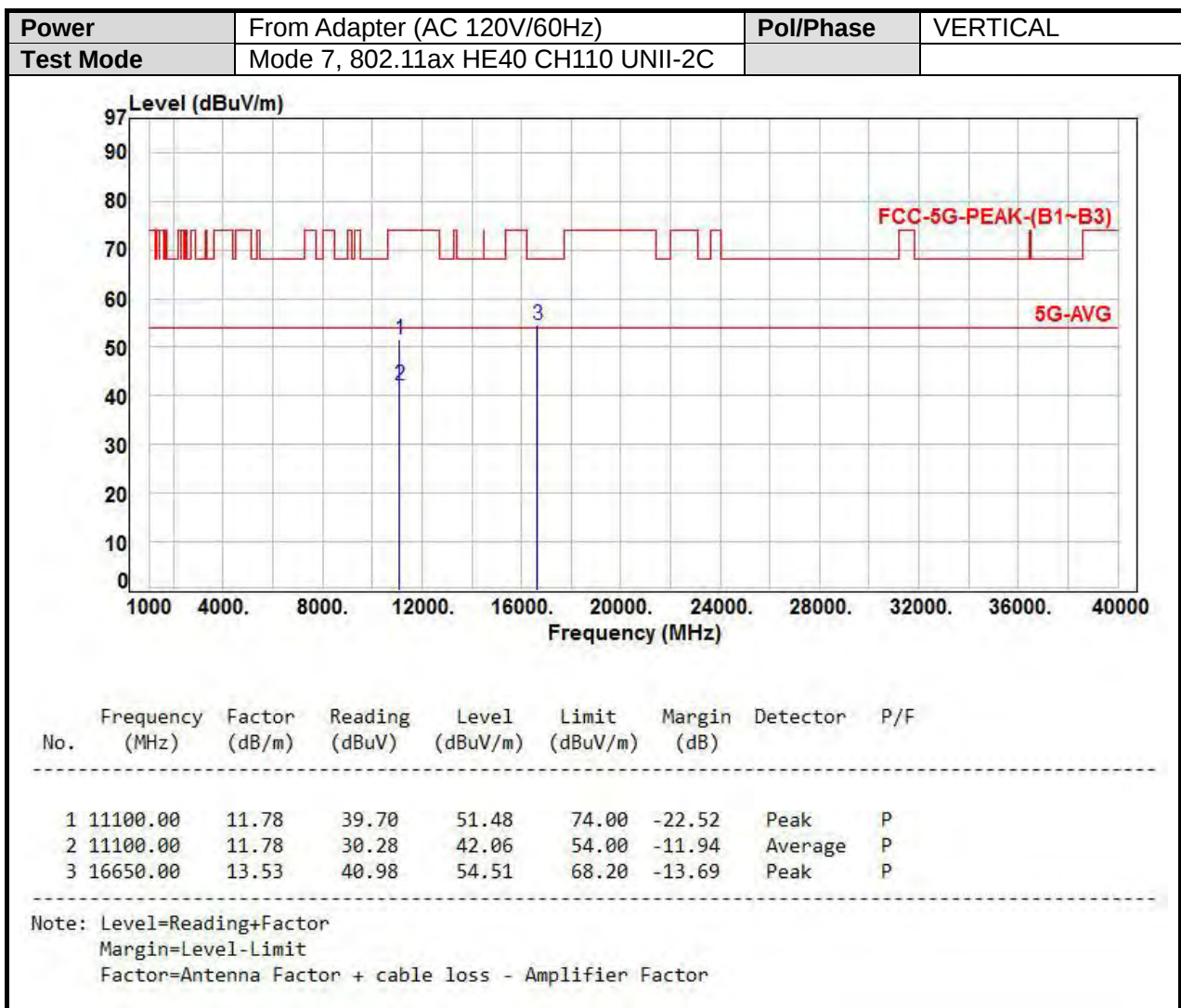


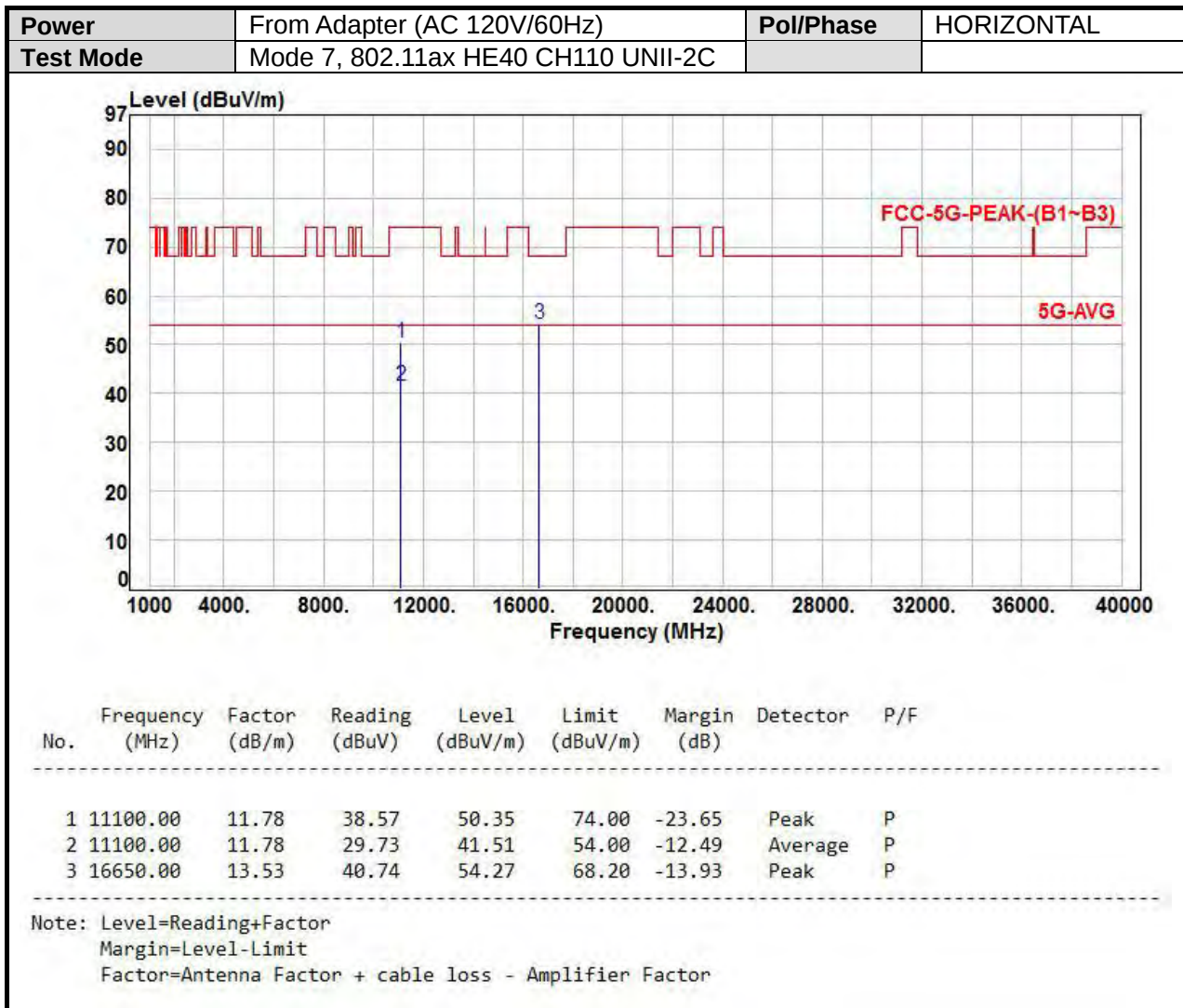


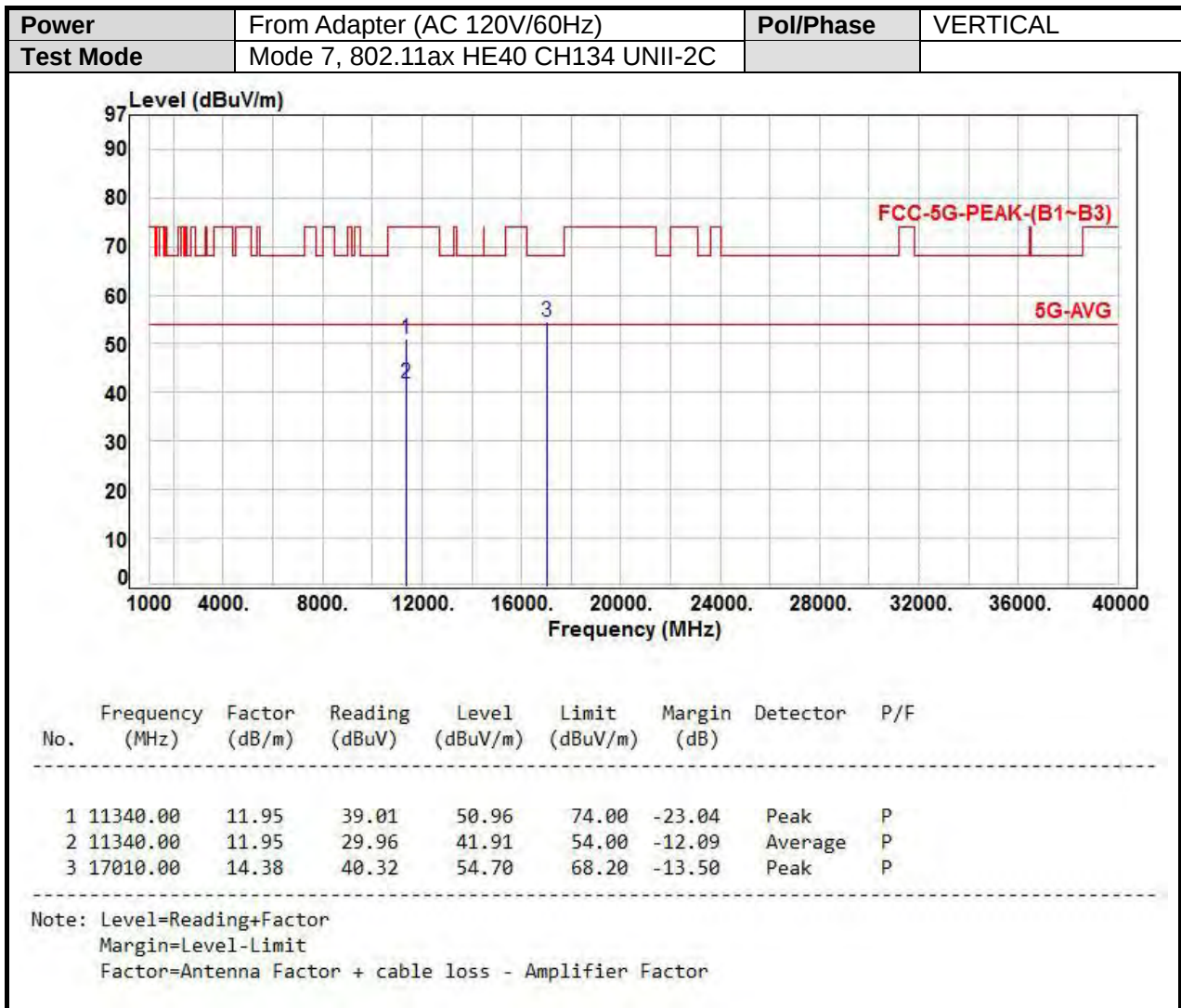


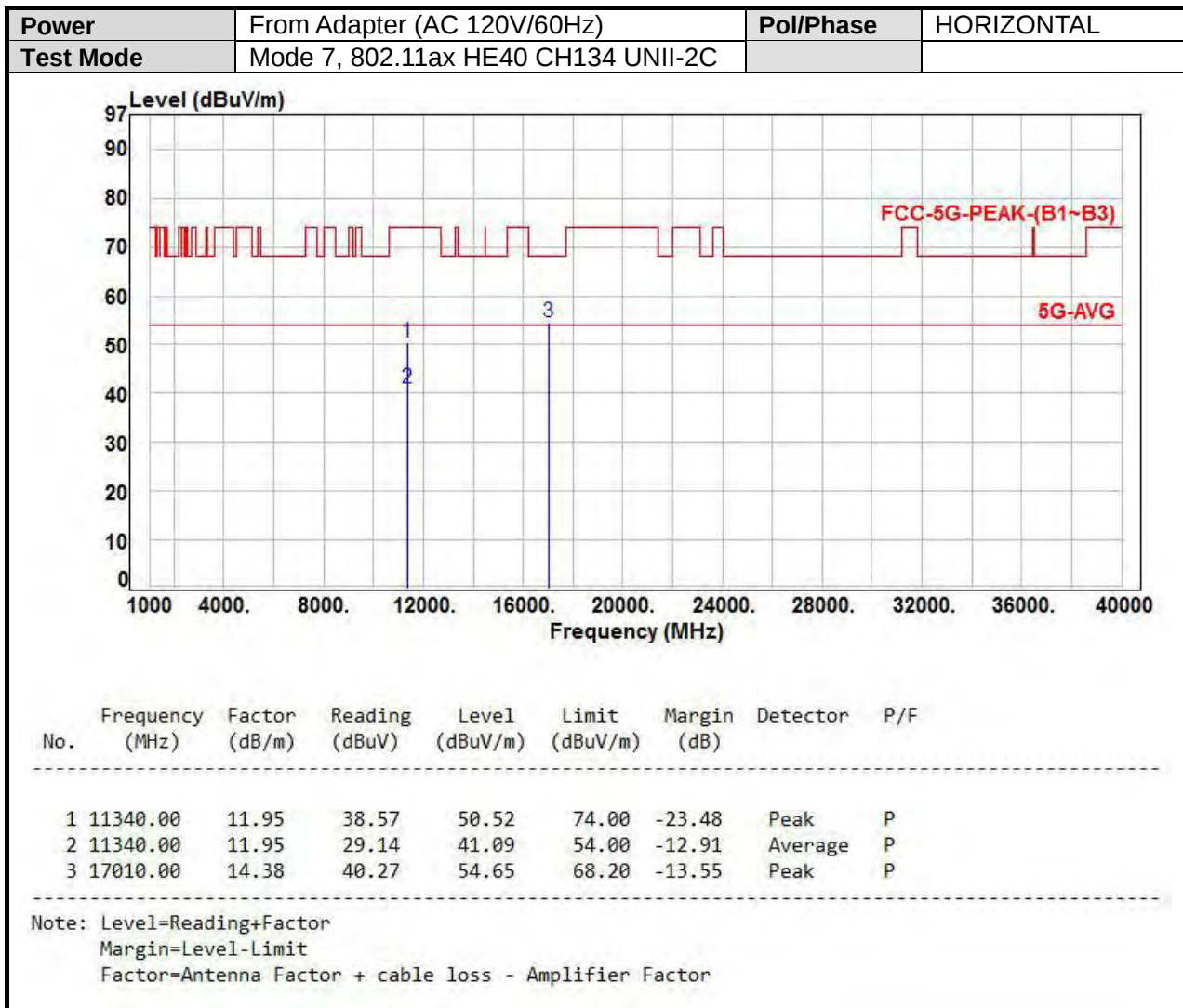






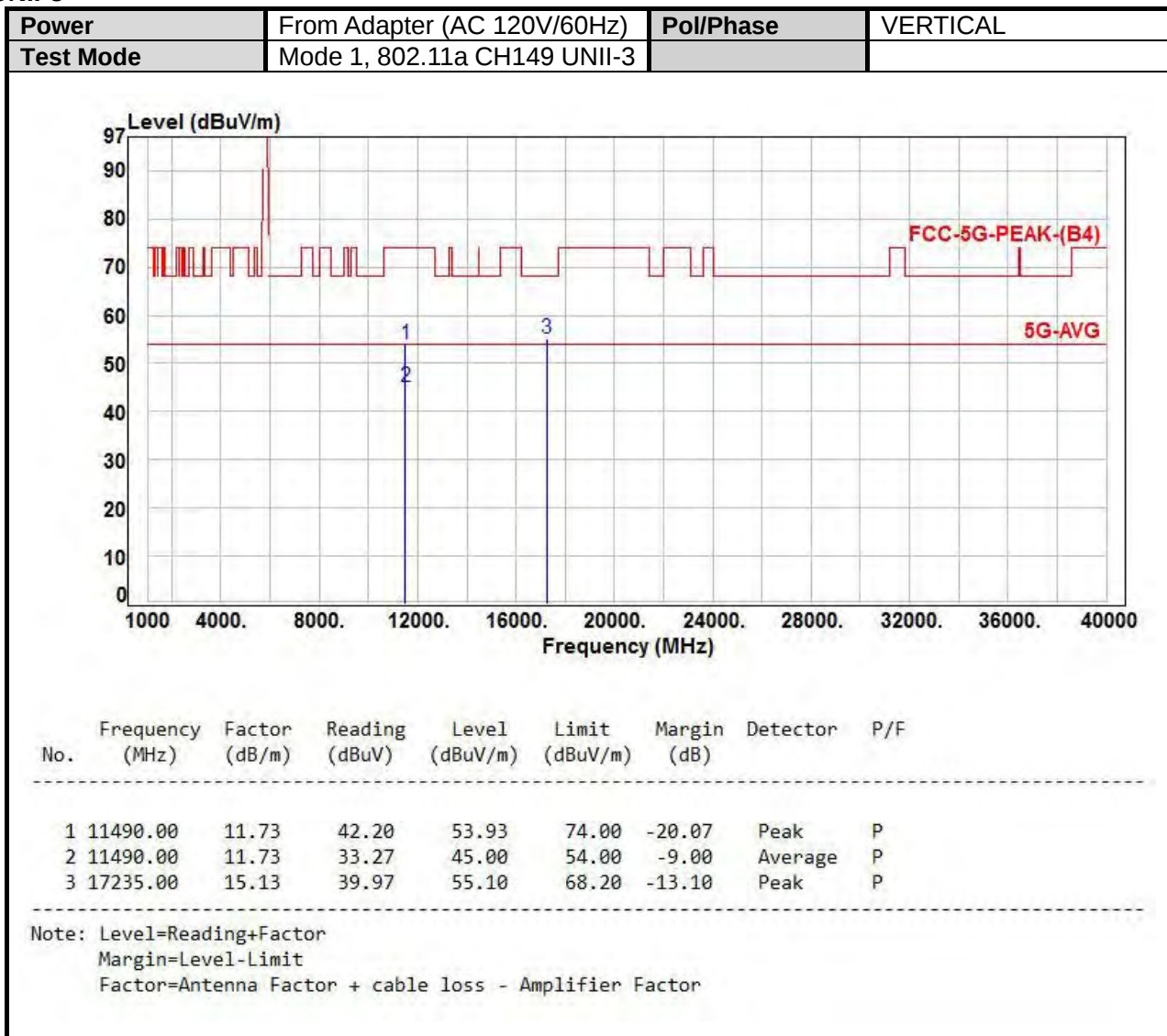


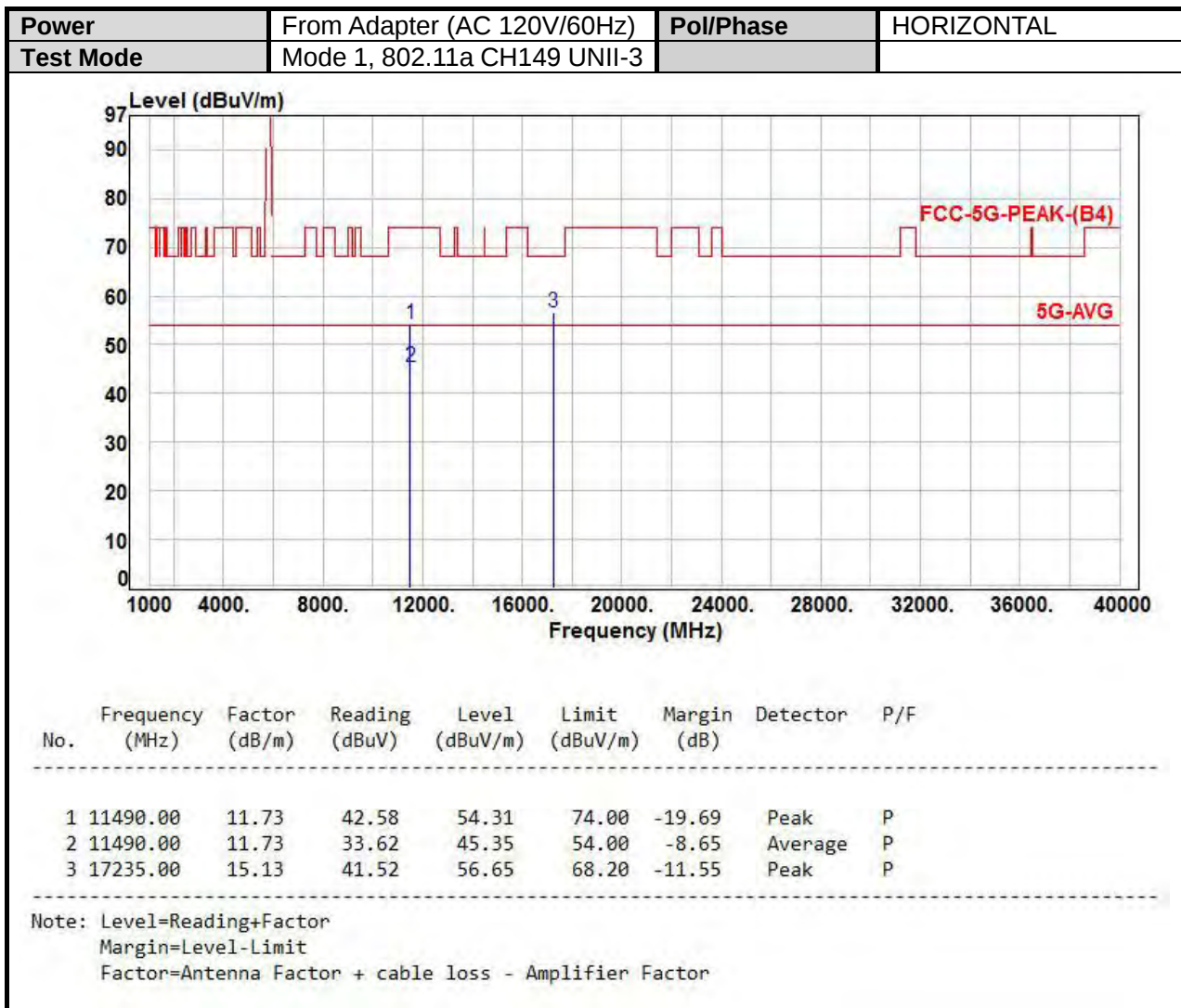


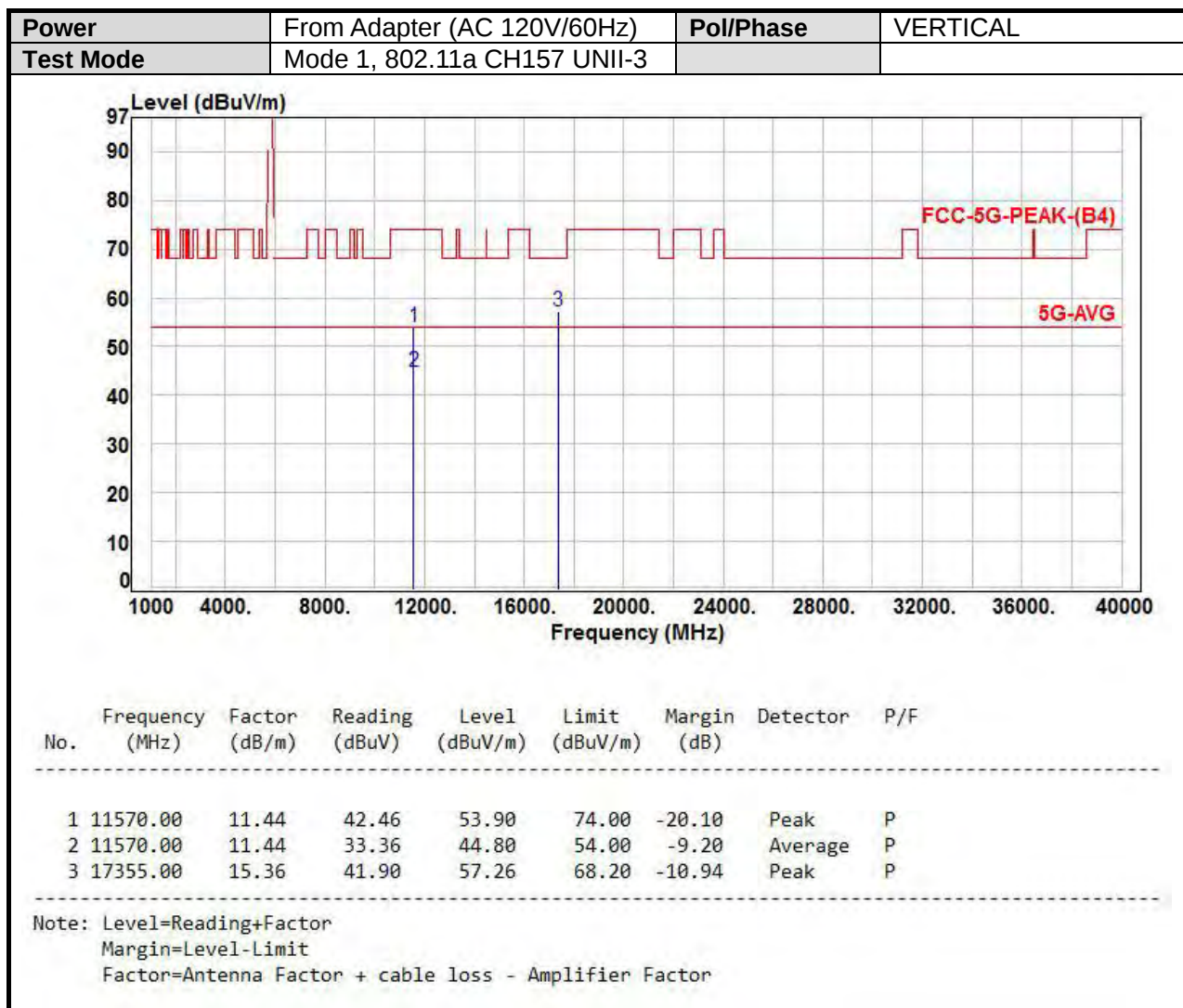


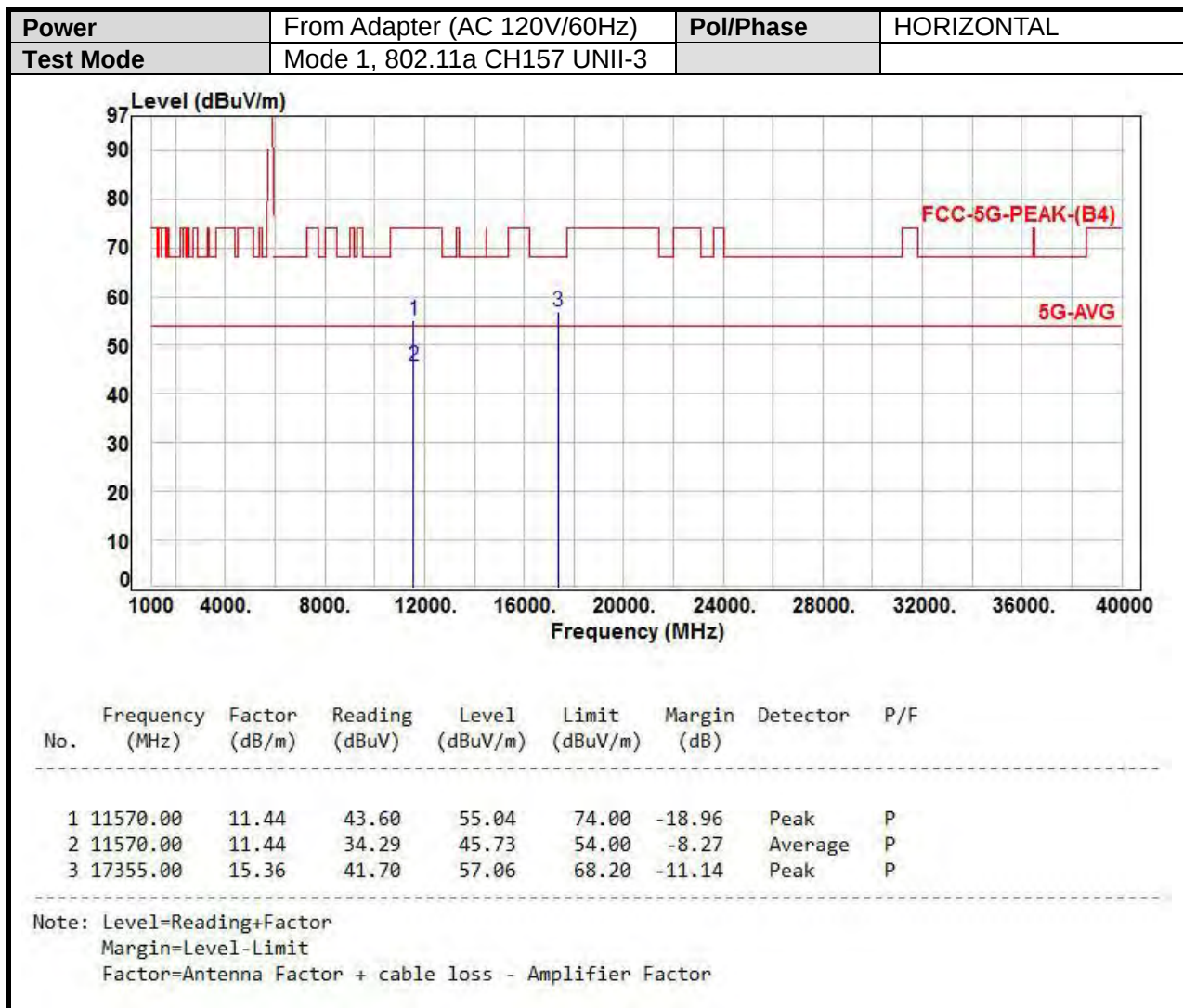


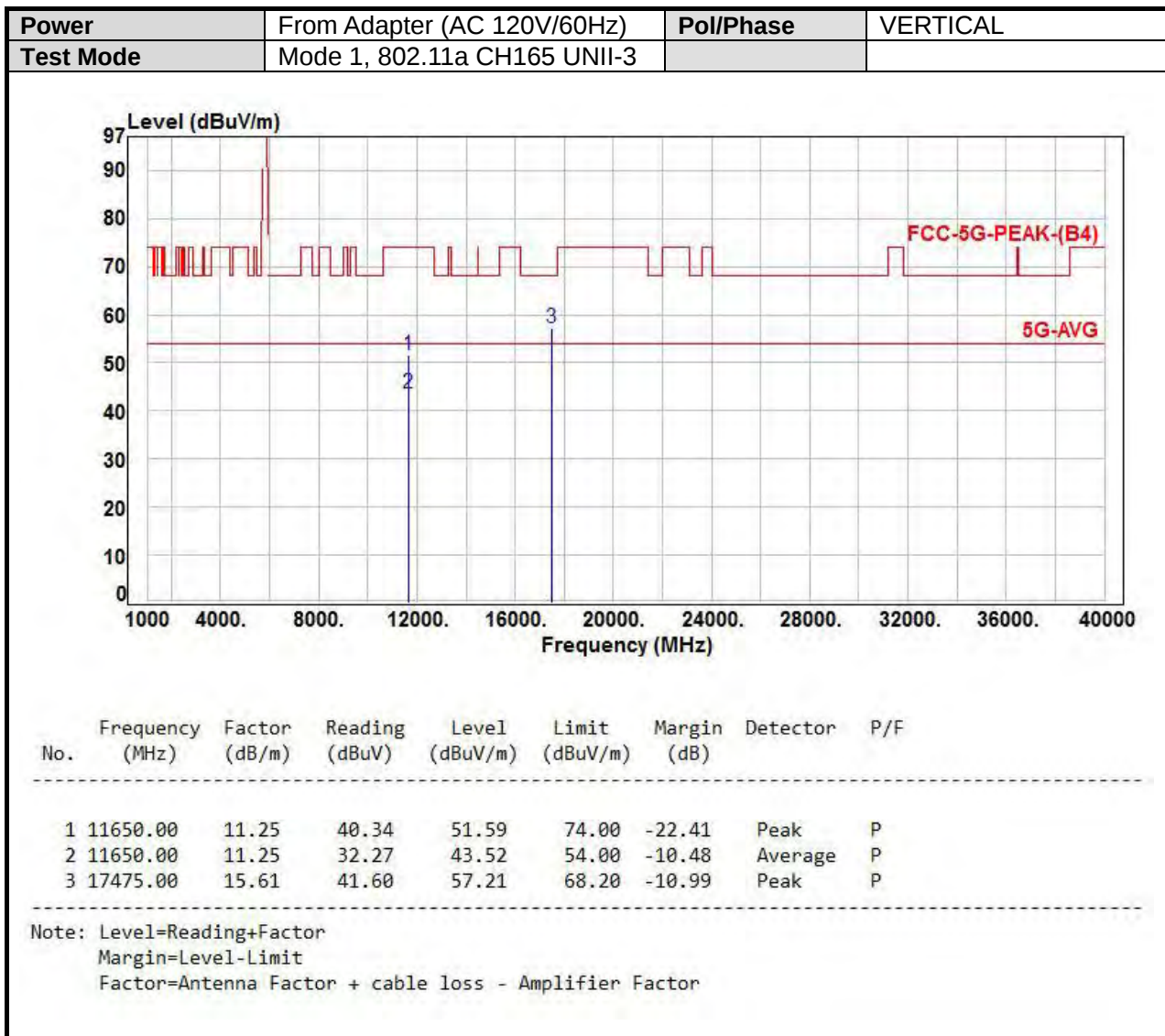
UNII-3

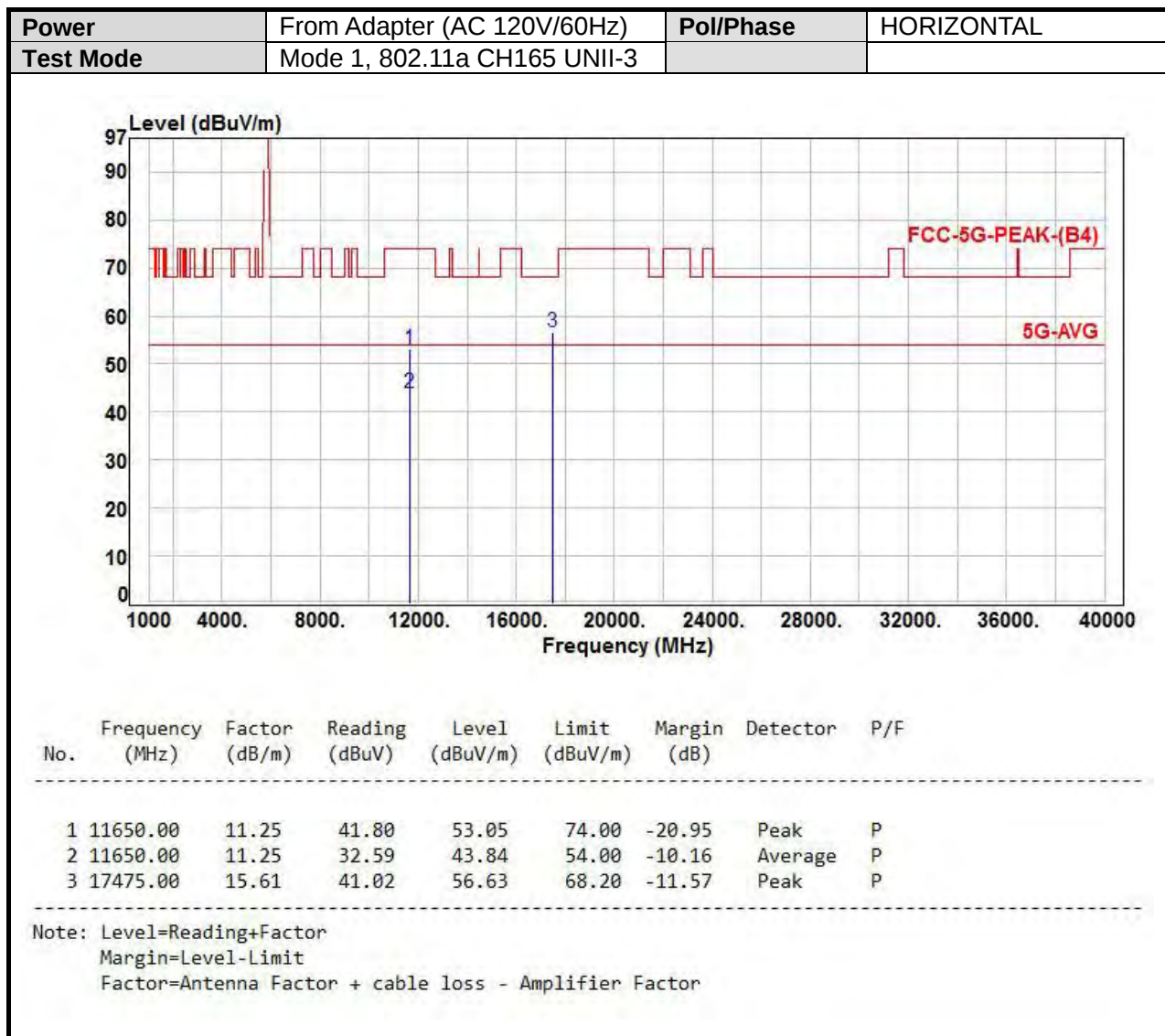




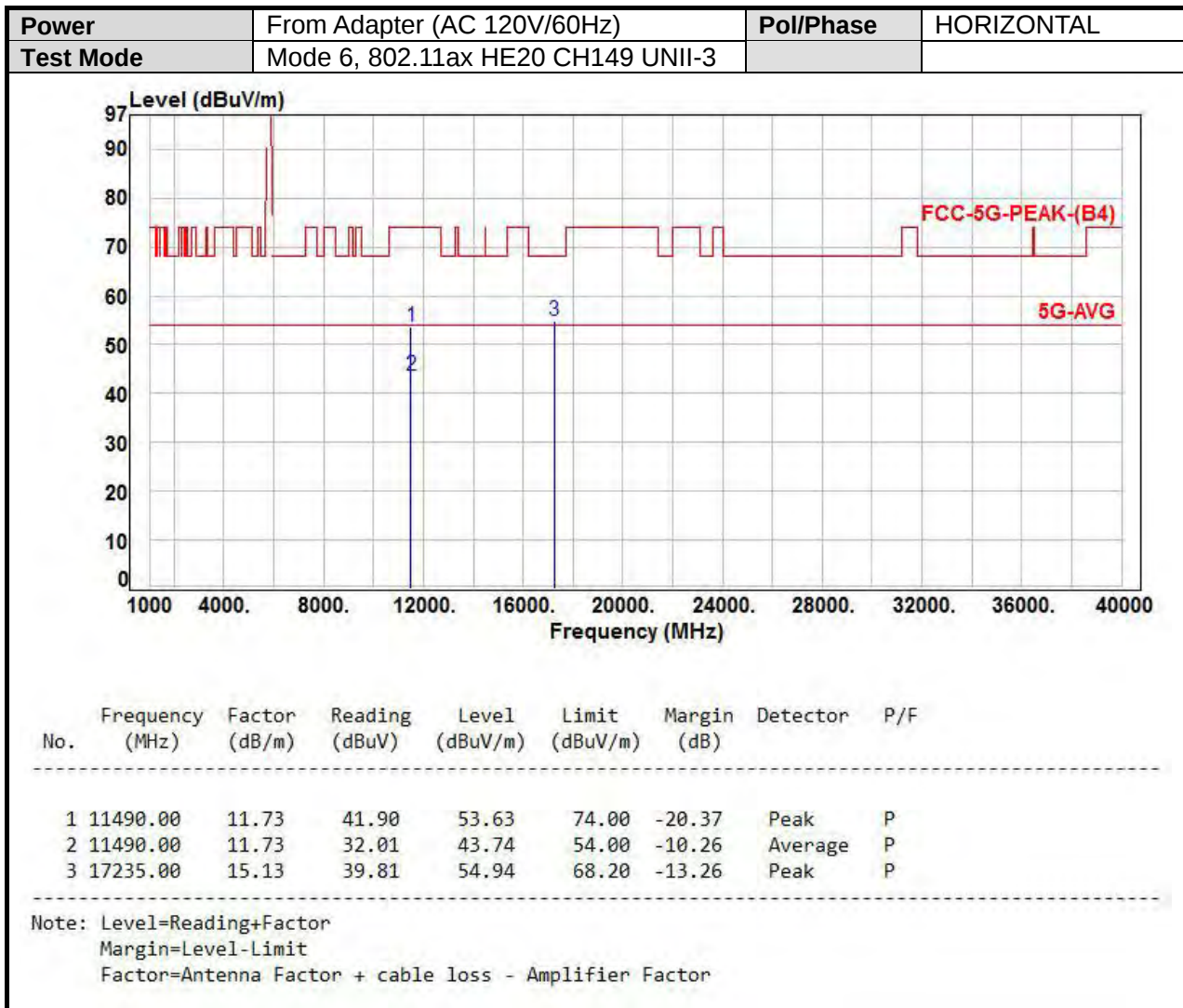




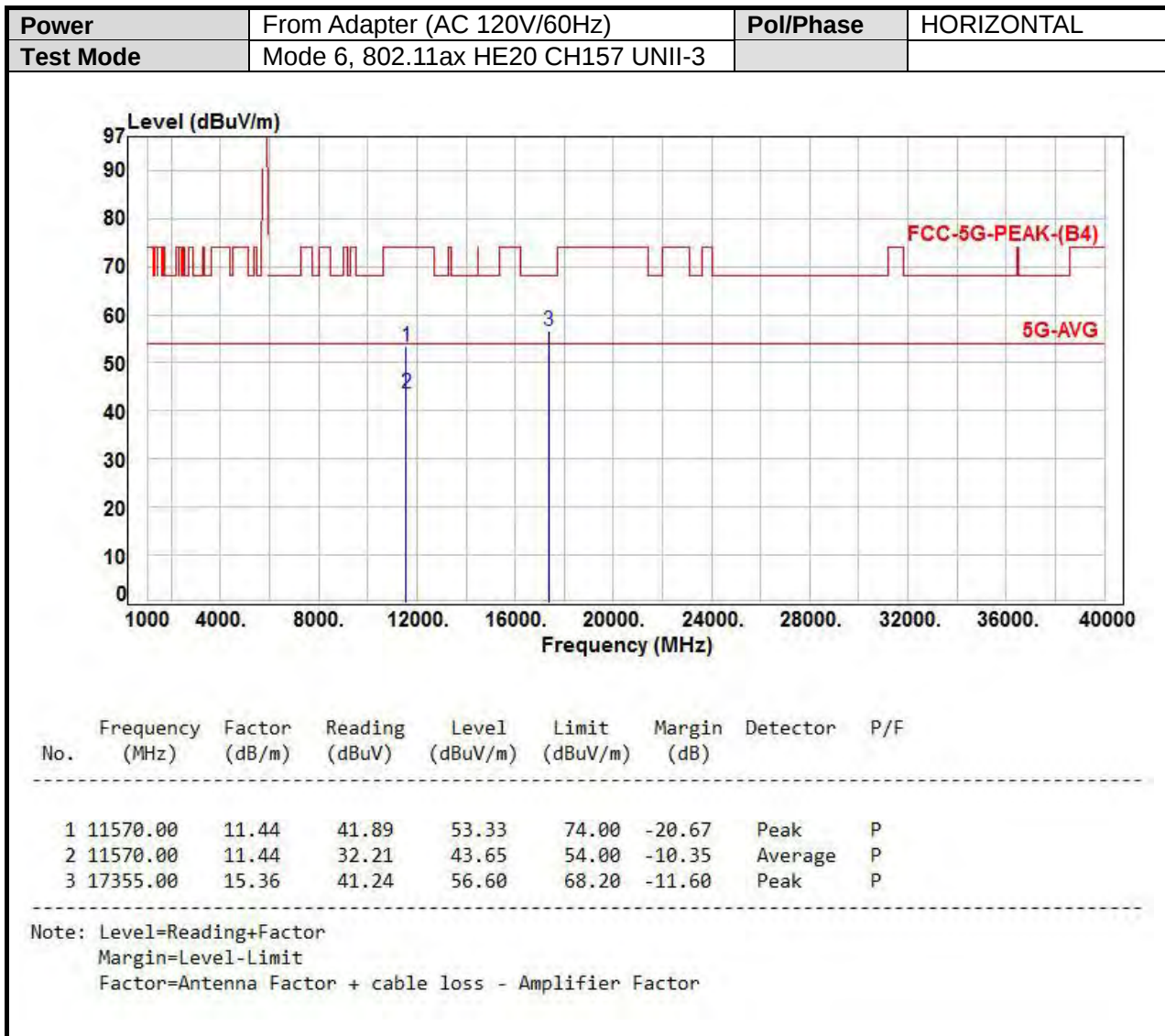


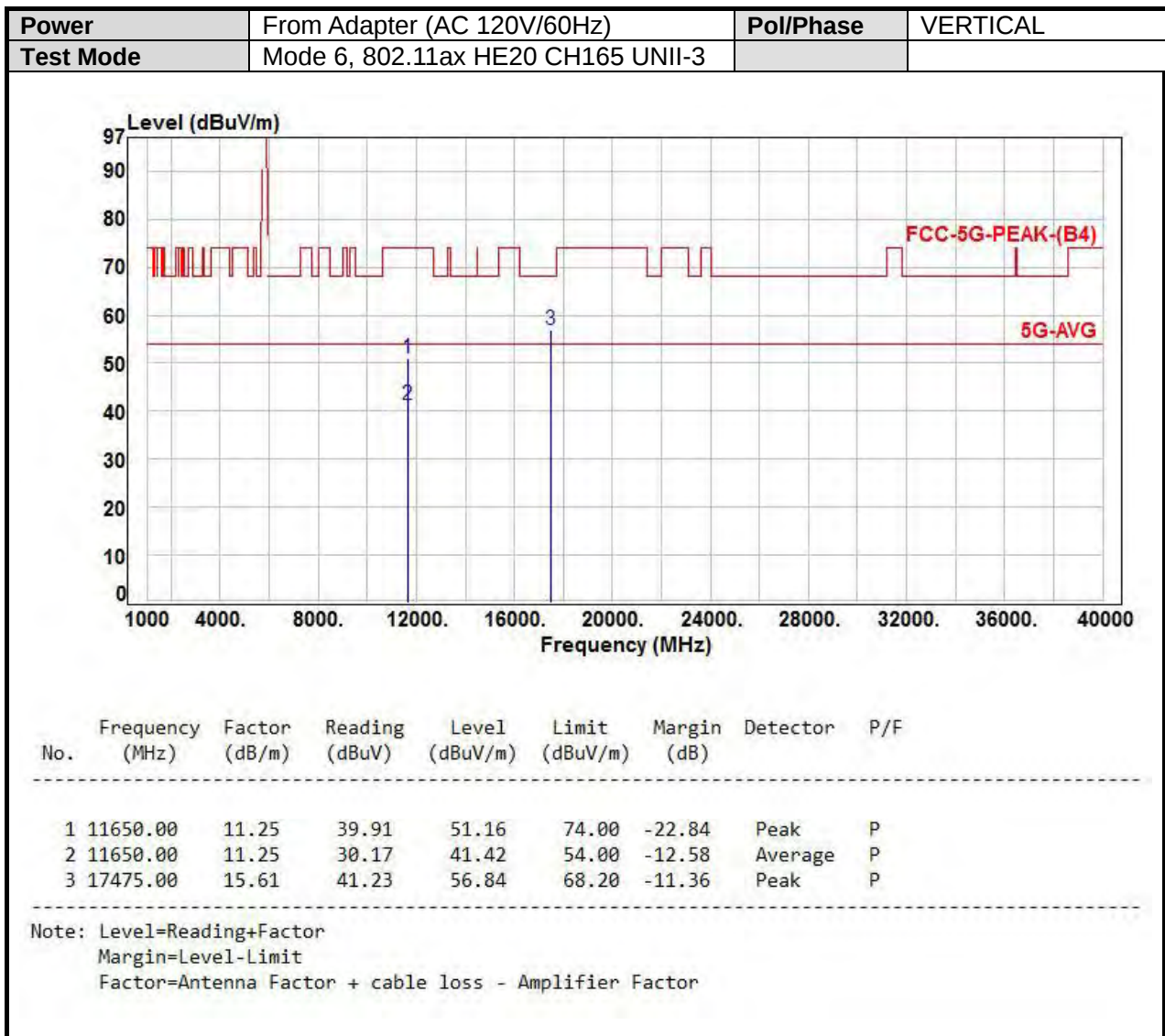


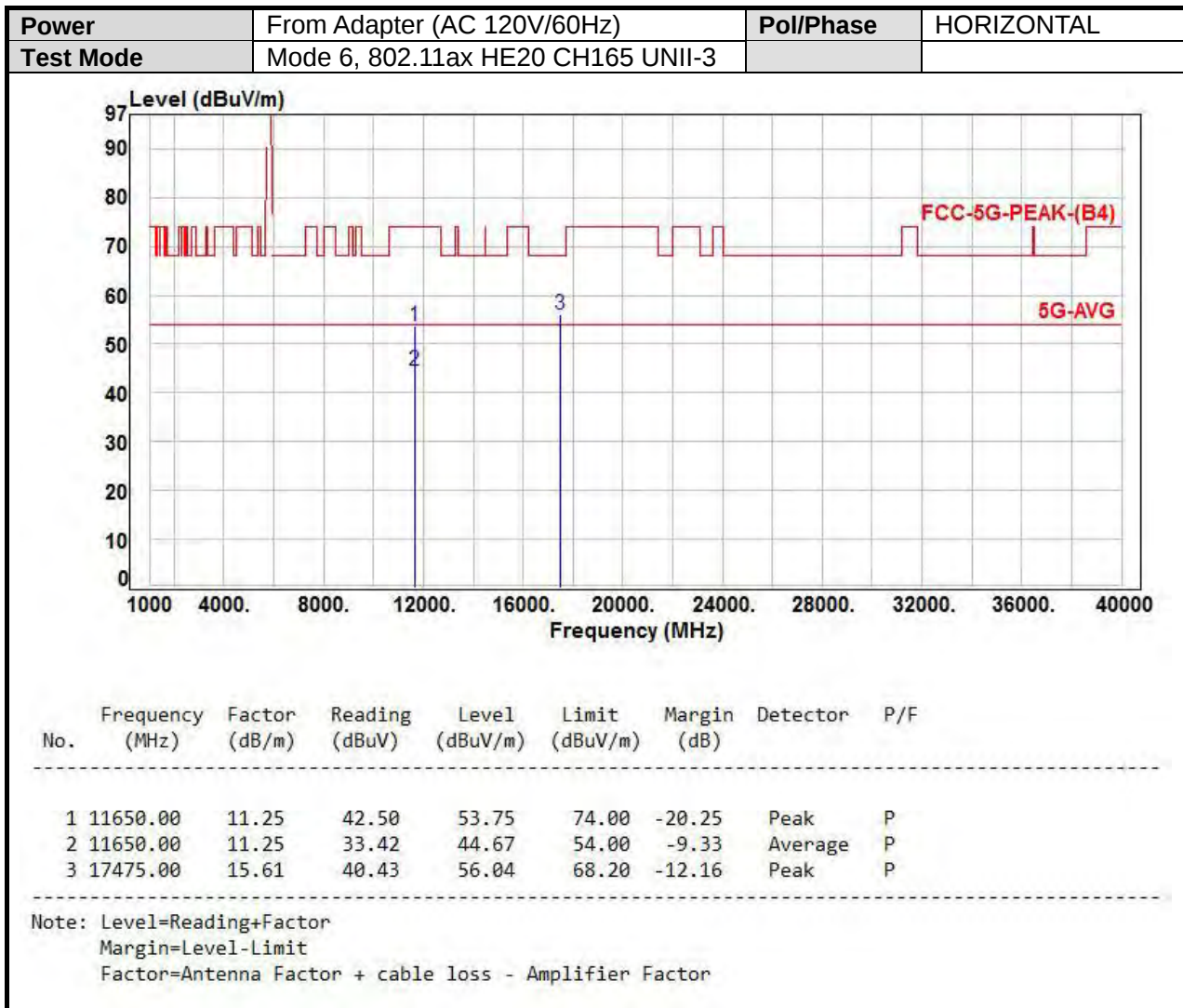


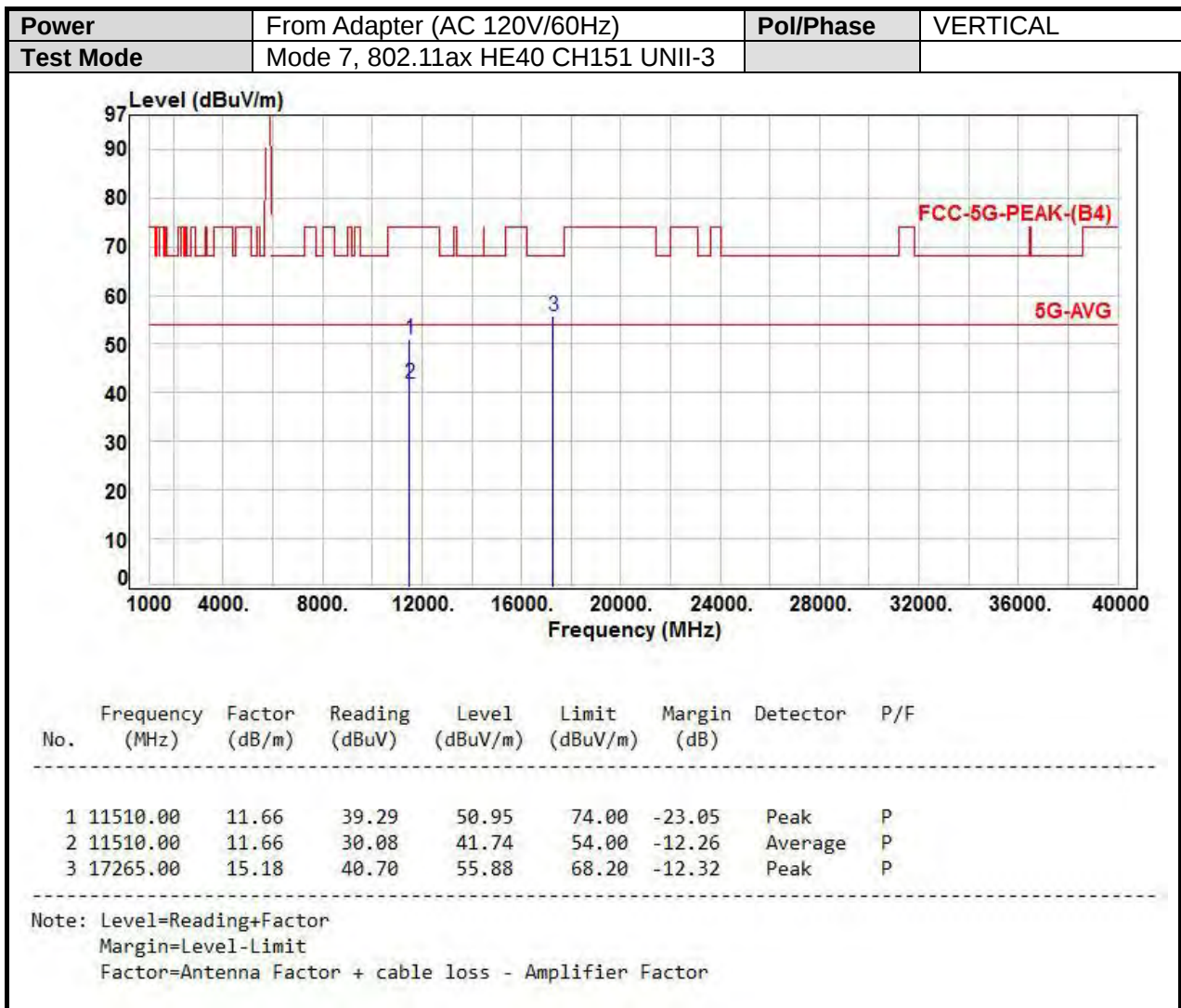


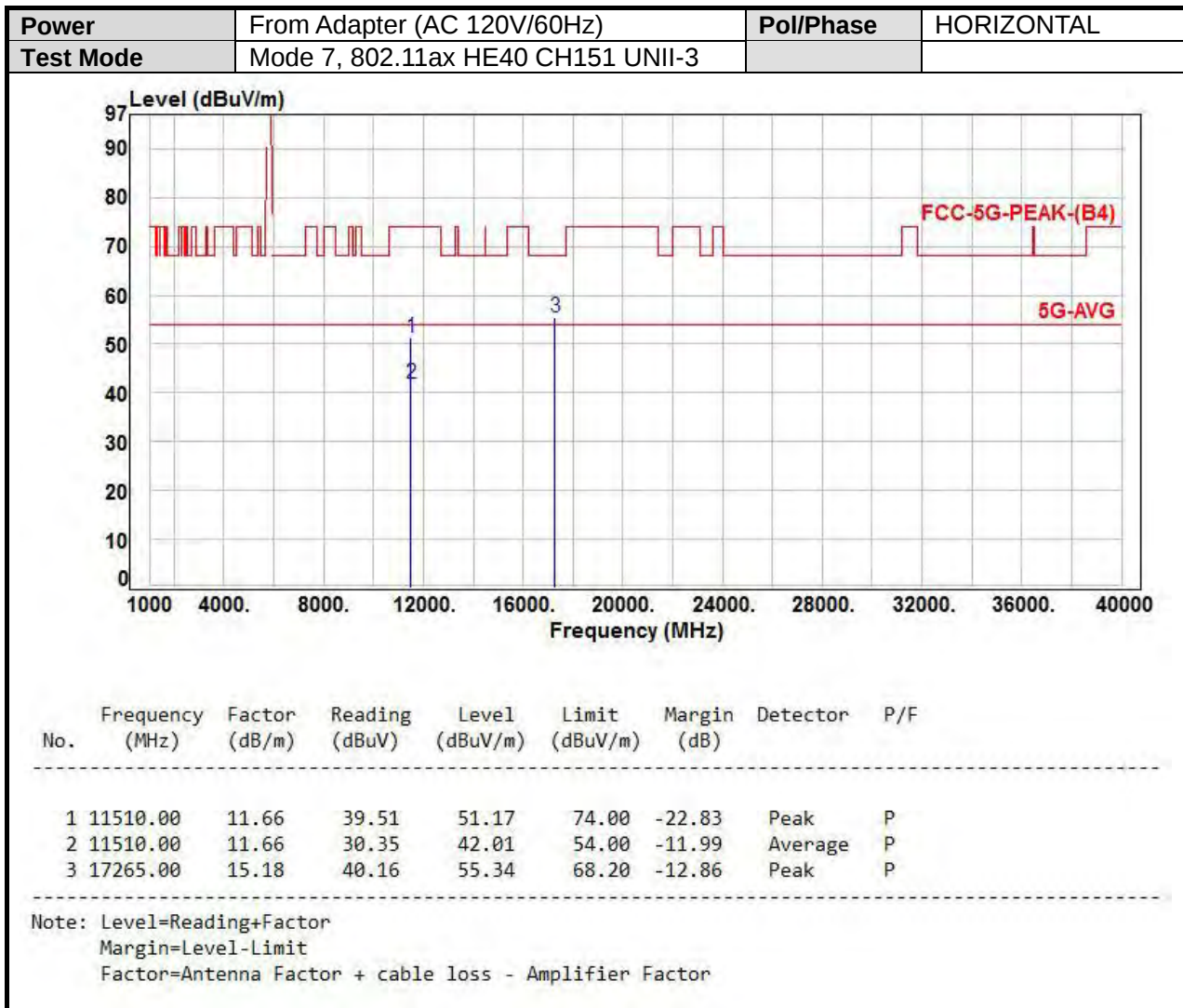


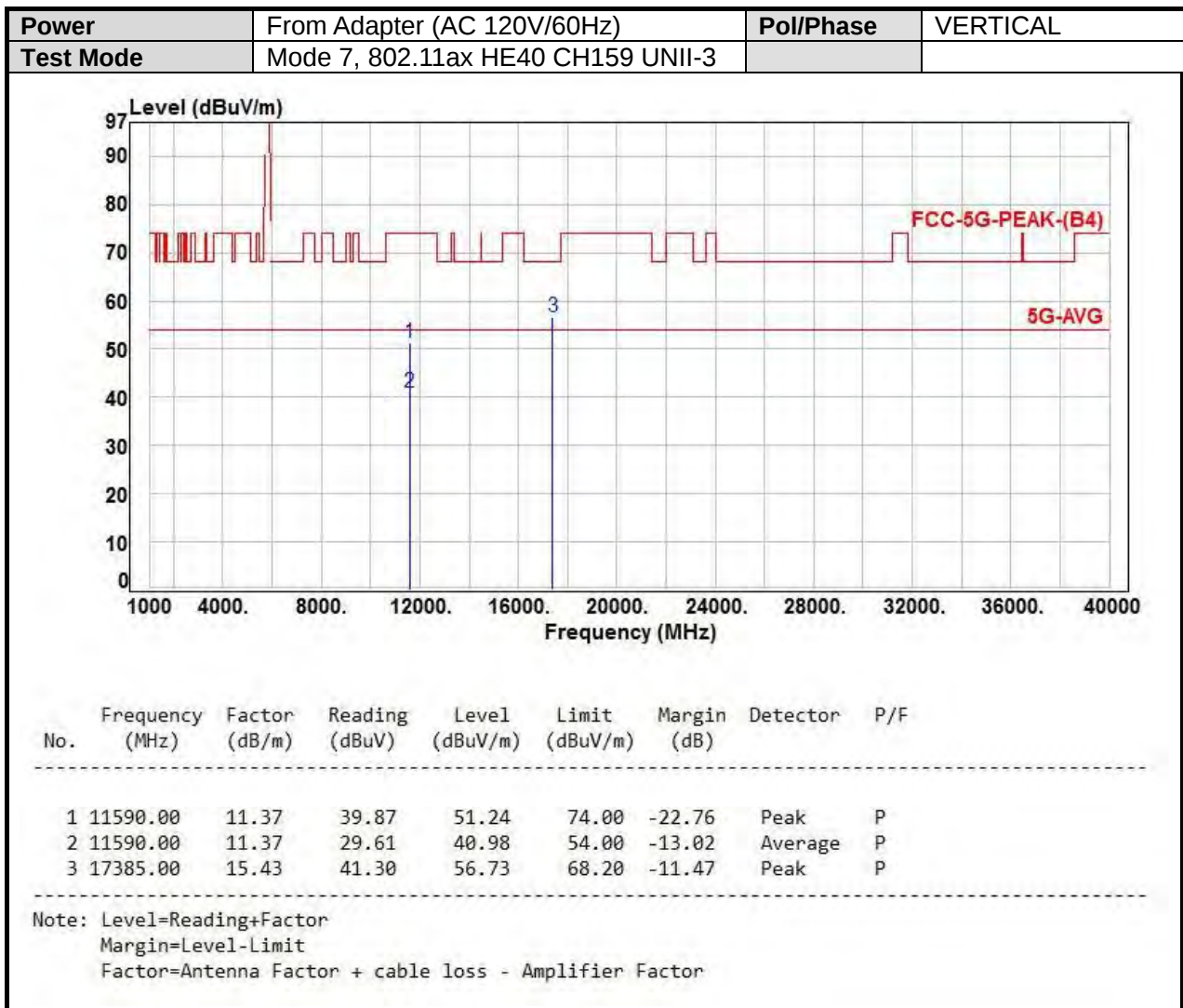


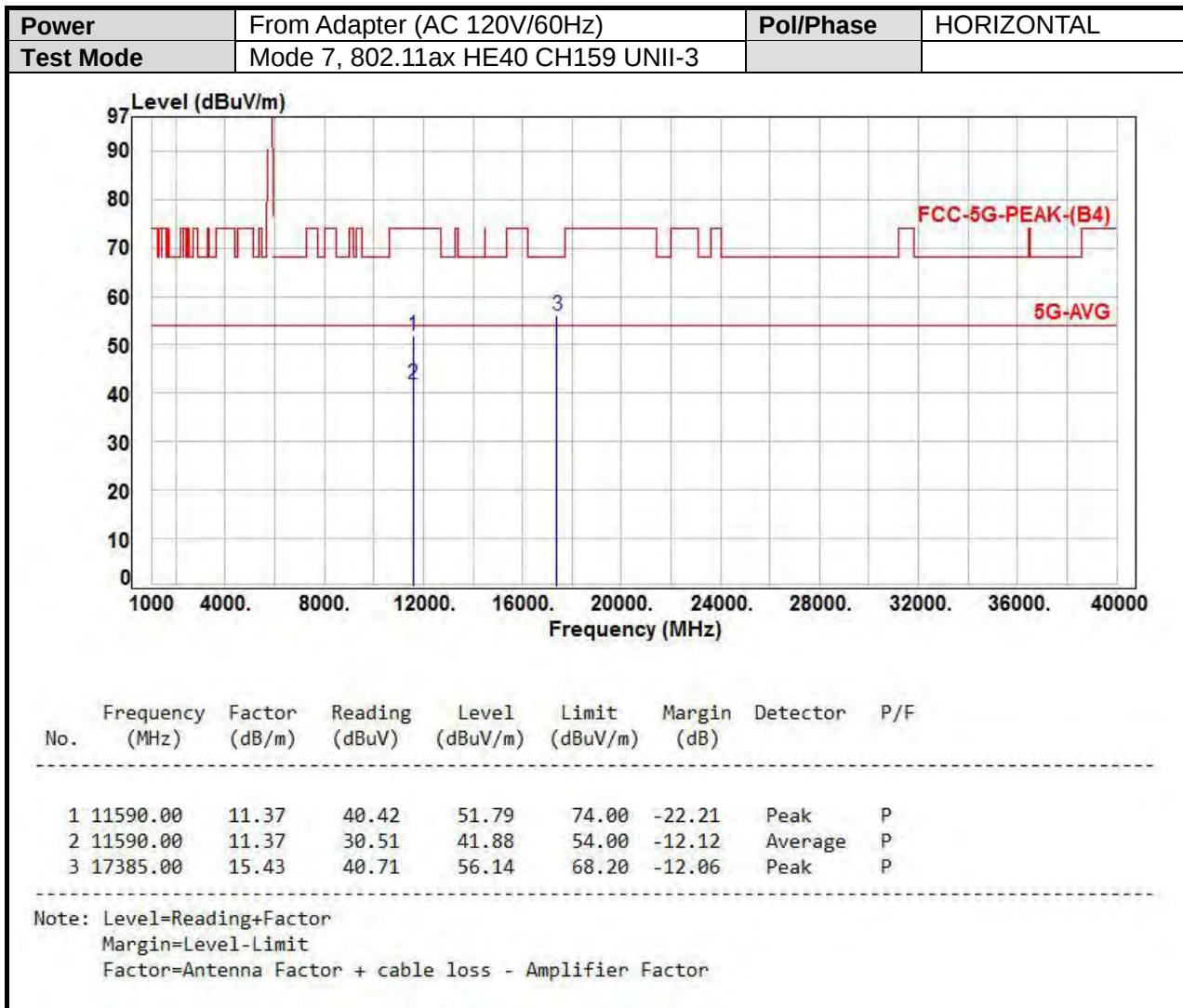














6.7. Restricted Bands of Operation

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			

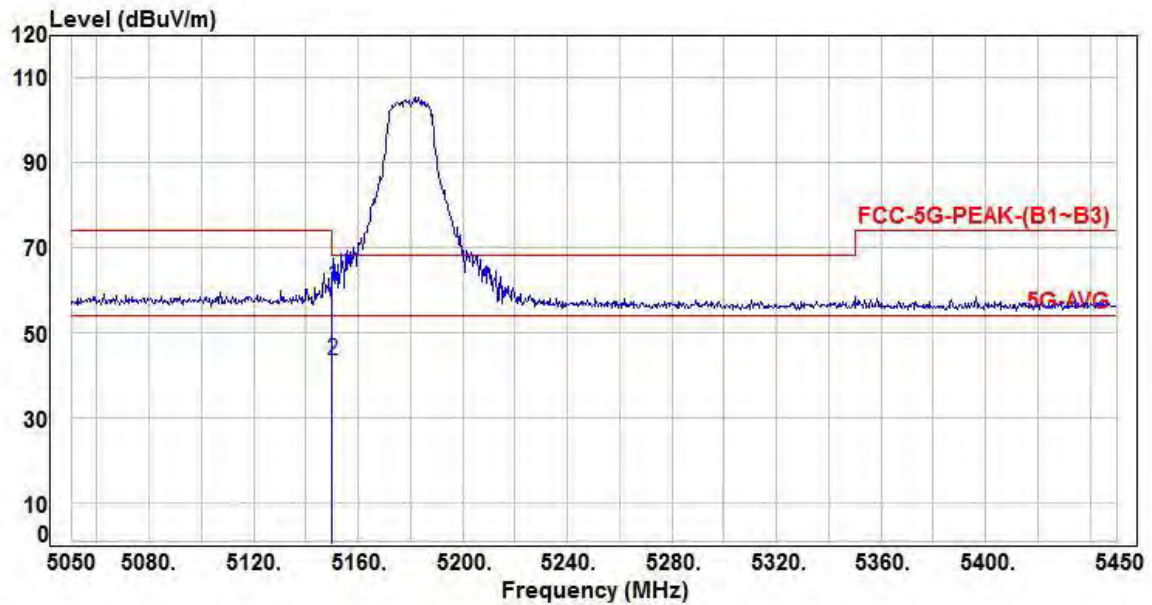
** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



6.8. Restrict Band Emission Measurement Data

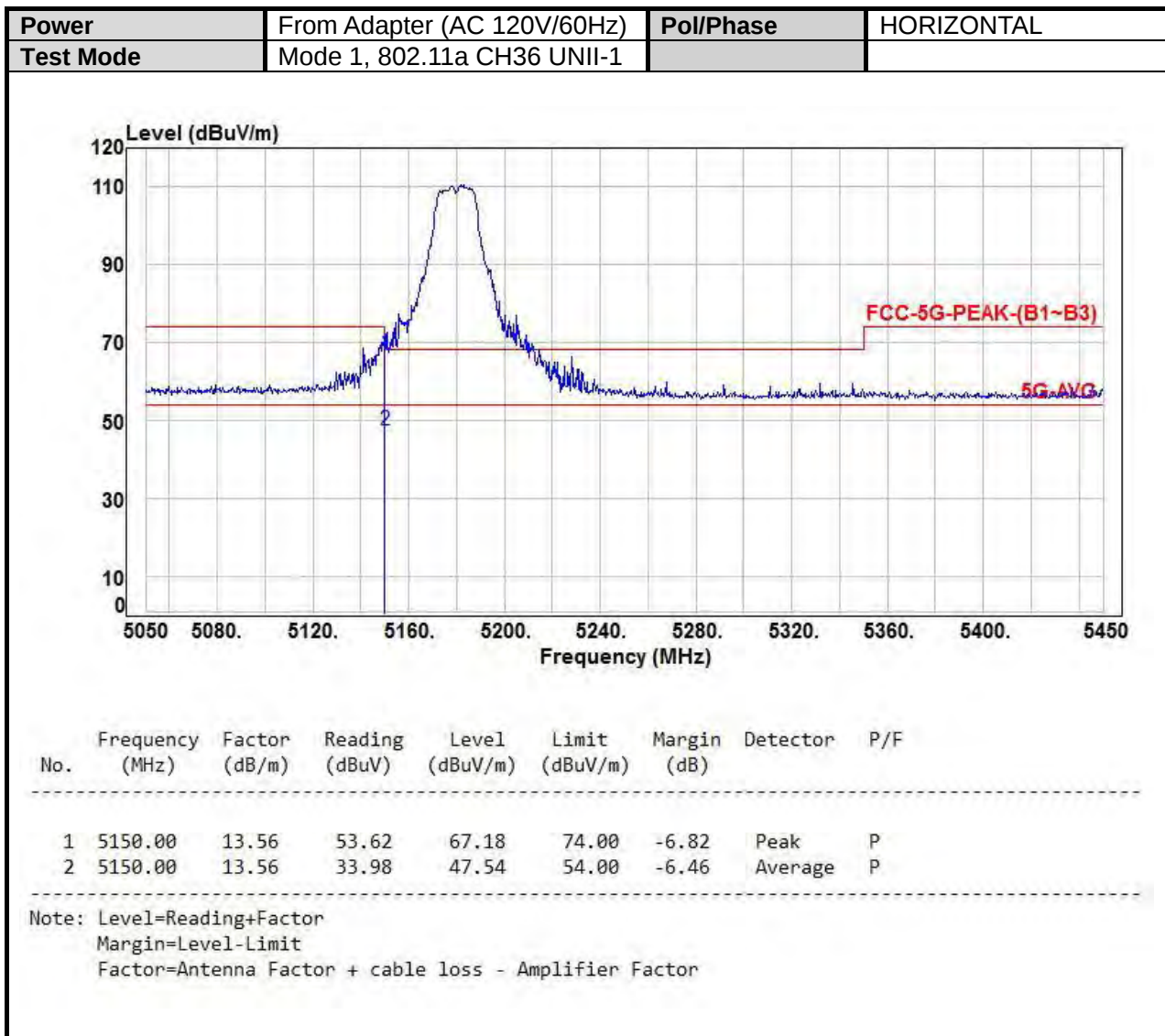
UNII-1

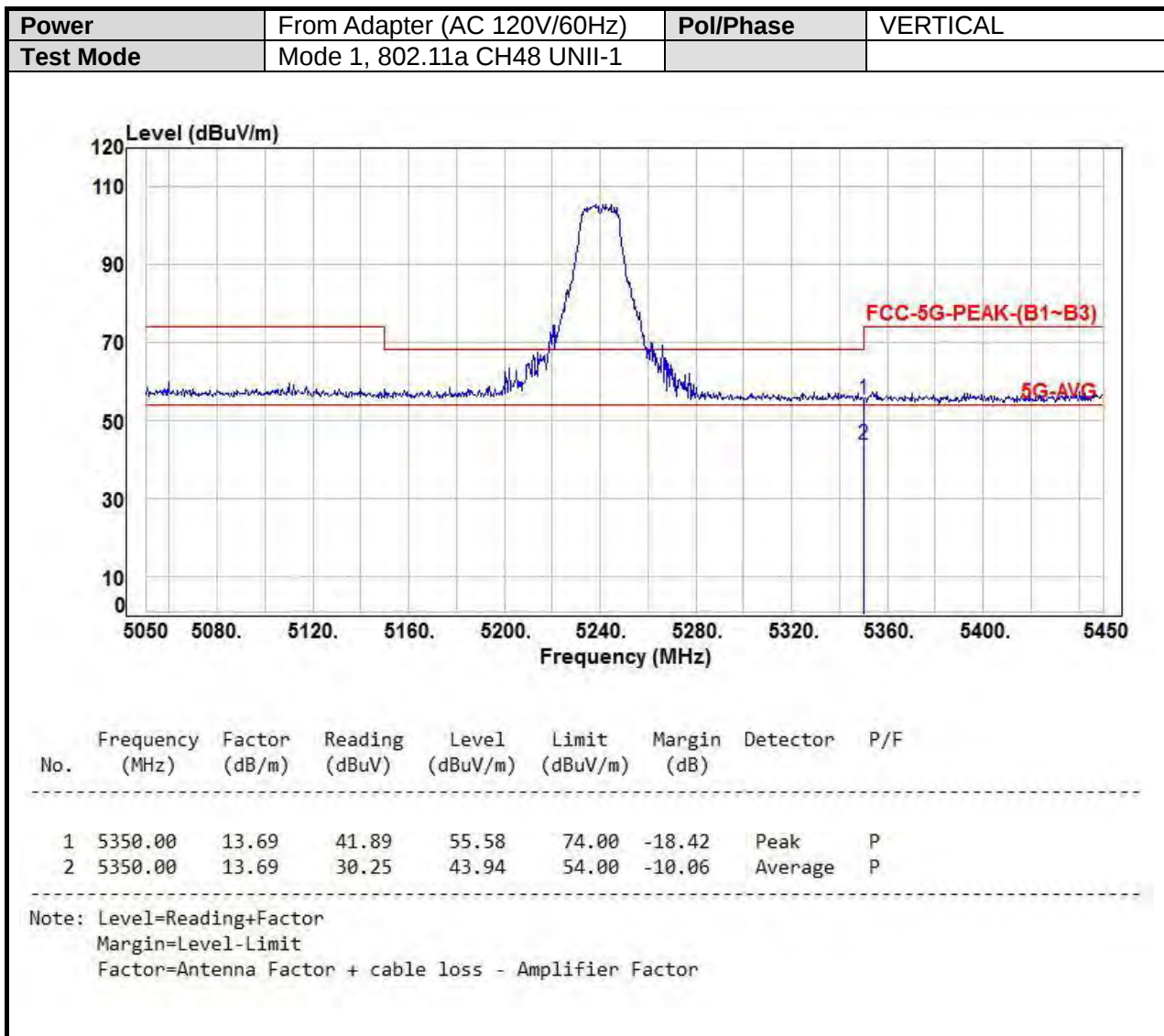
Power	From Adapter (AC 120V/60Hz)	Pol/Phase	VERTICAL
Test Mode	Mode 1, 802.11a CH36 UNII-1		

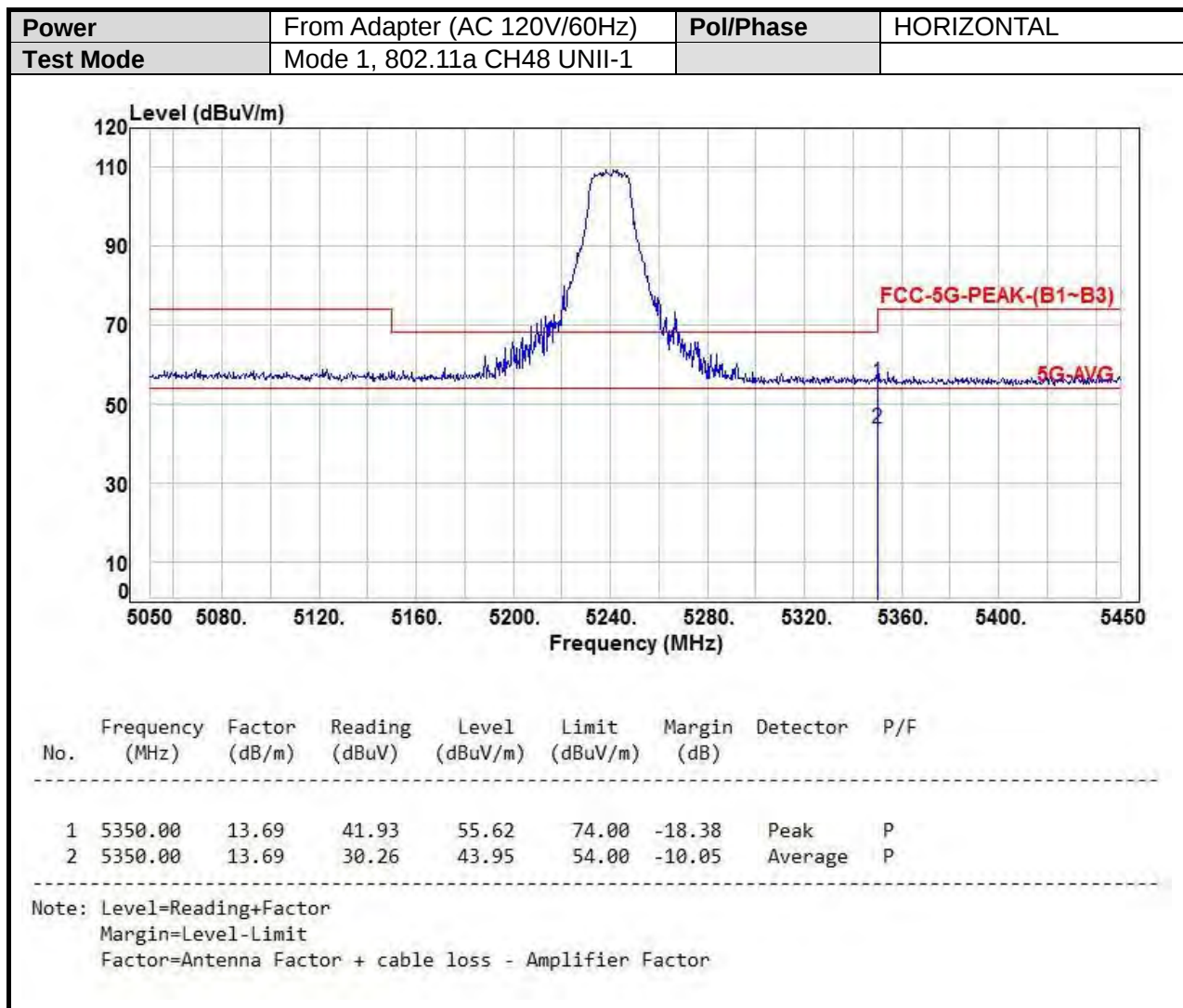


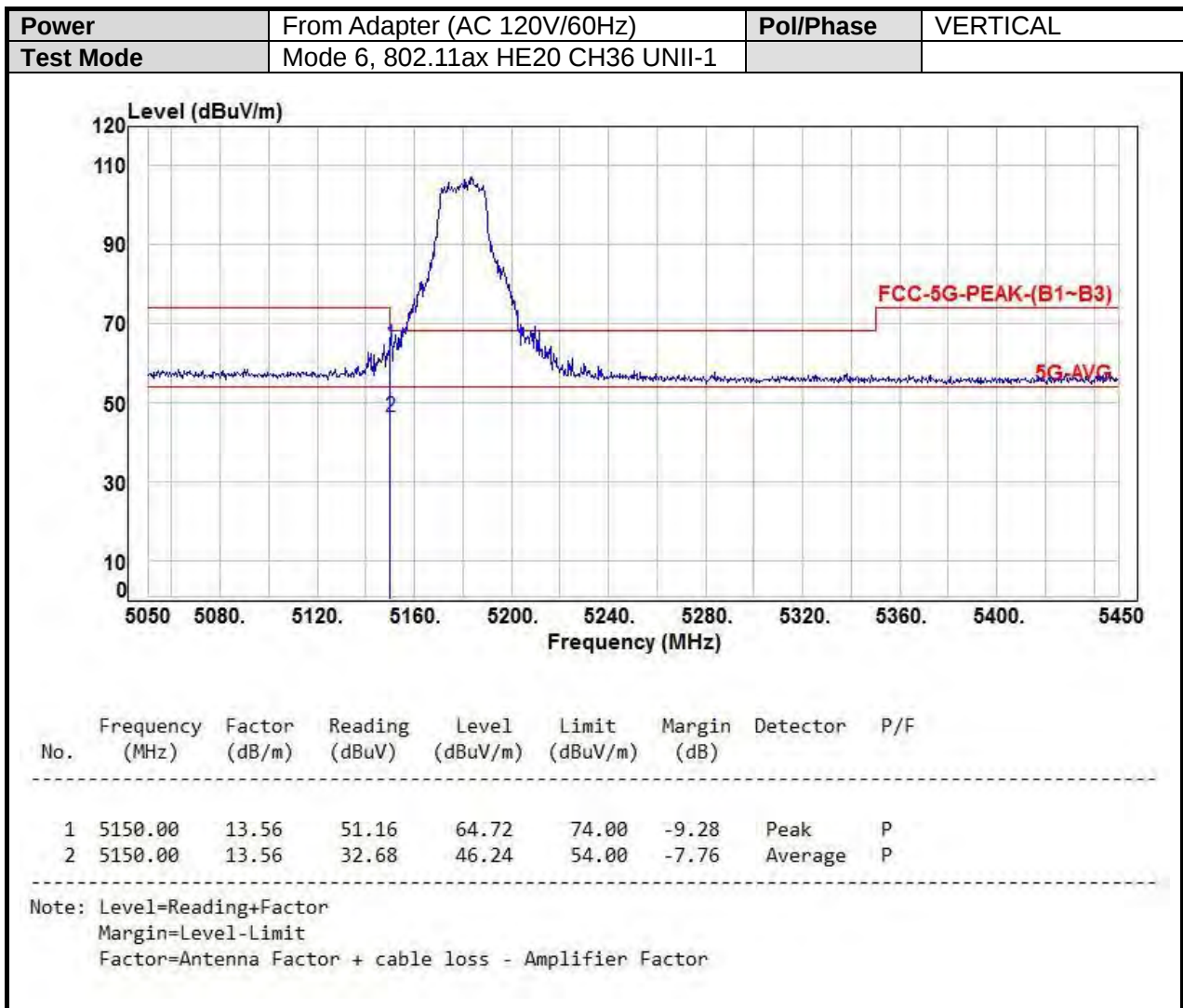
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5150.00	13.56	47.29	60.85	74.00	-13.15	Peak	P
2	5150.00	13.56	30.02	43.58	54.00	-10.42	Average	P

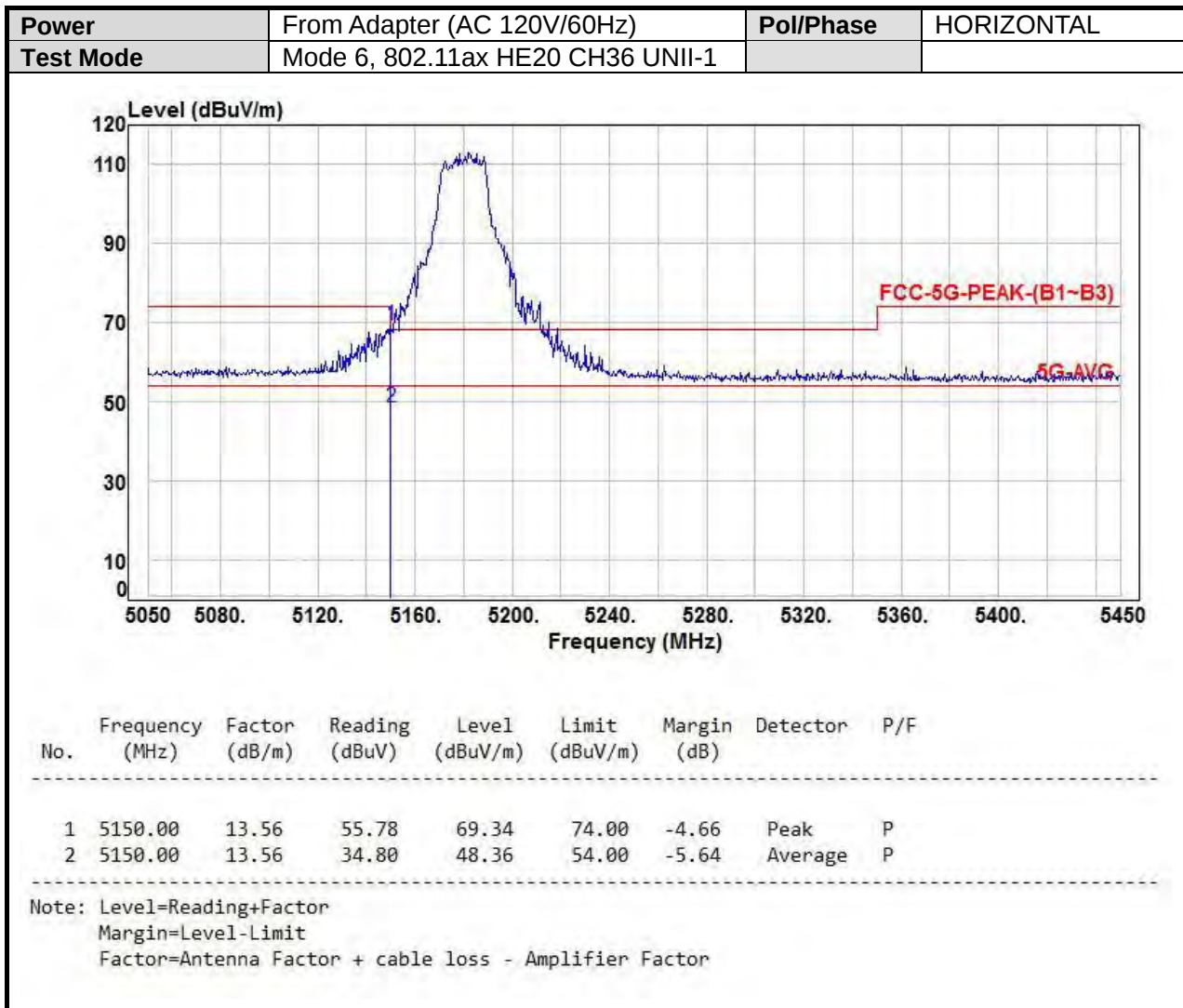
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

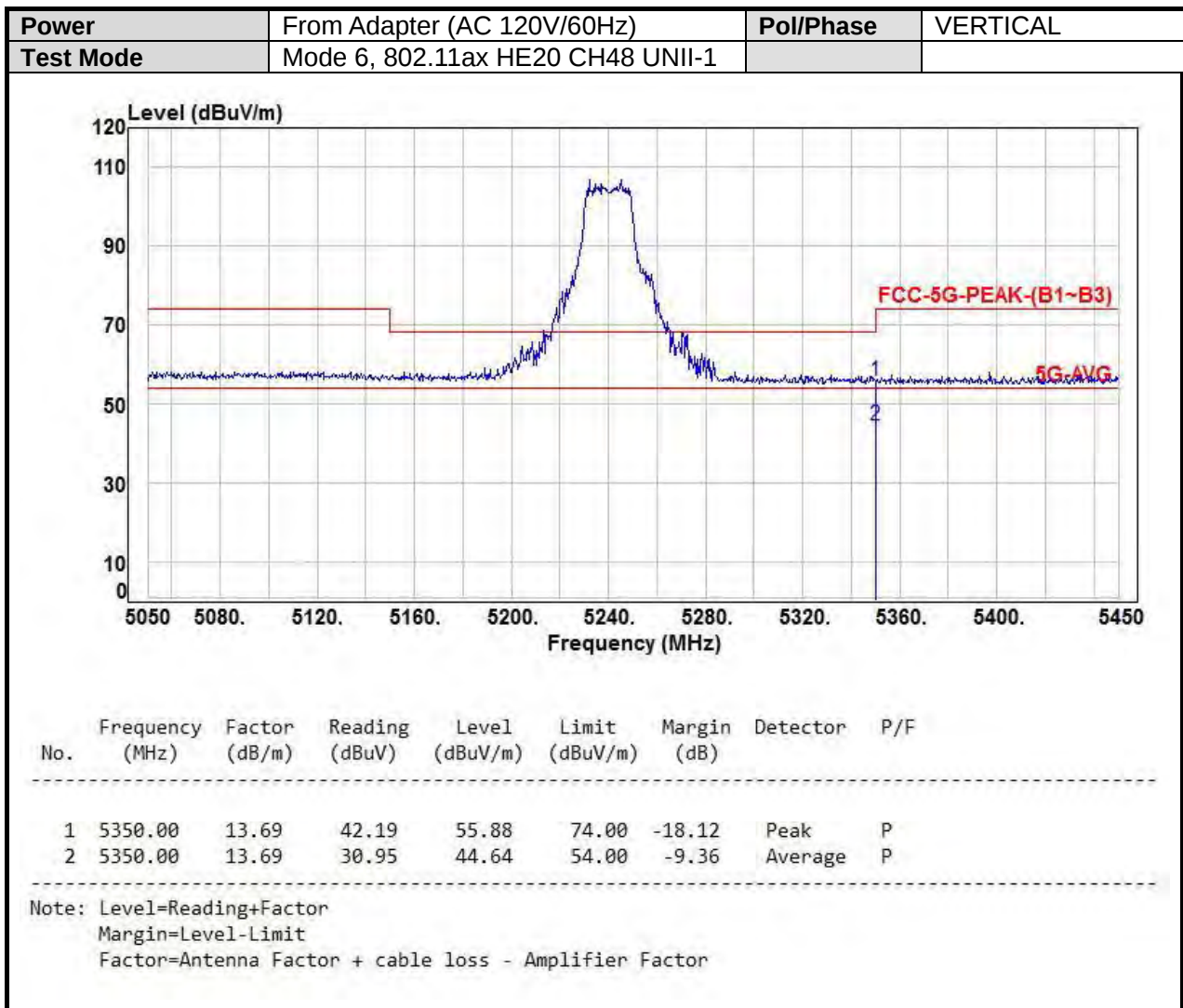


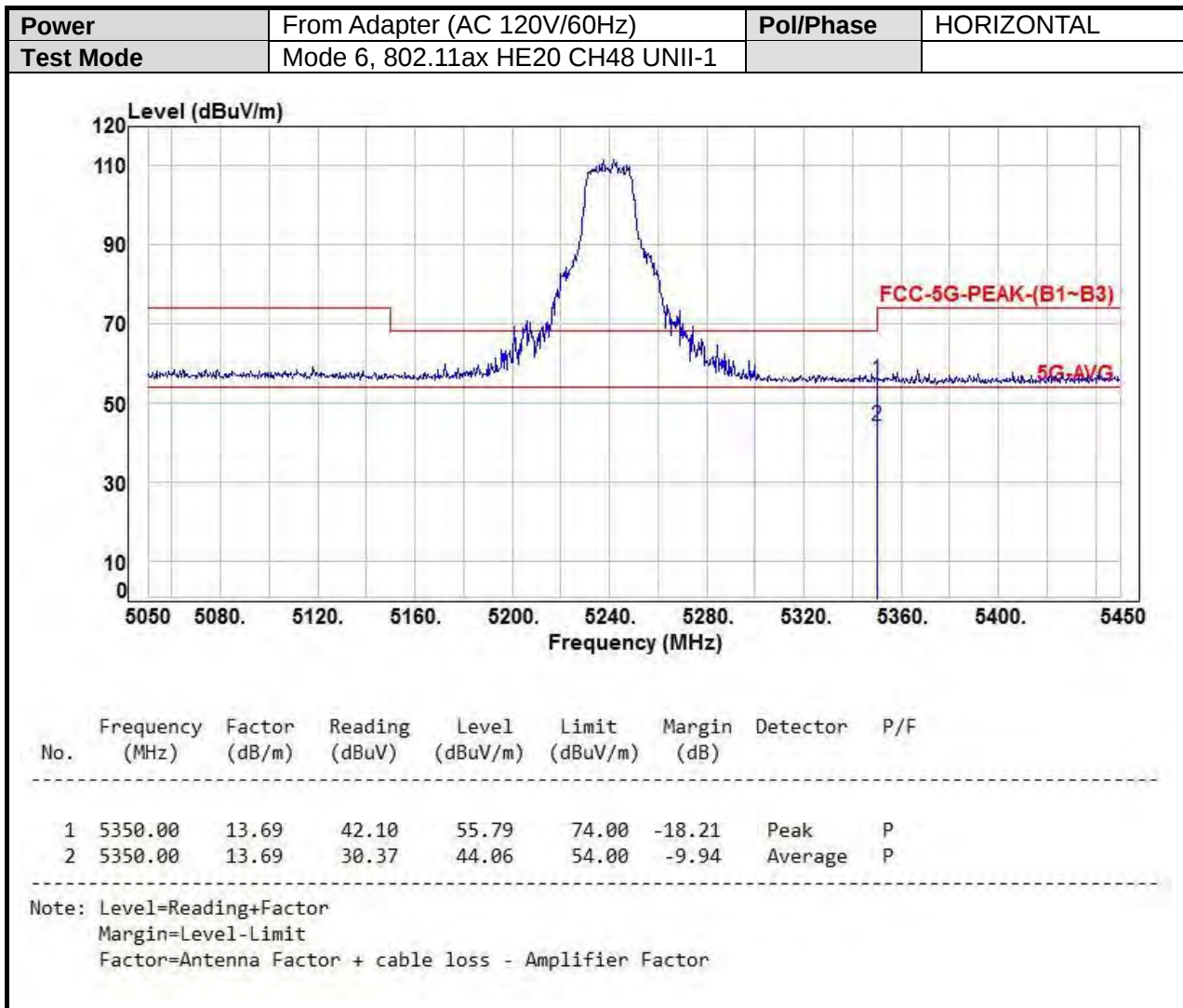


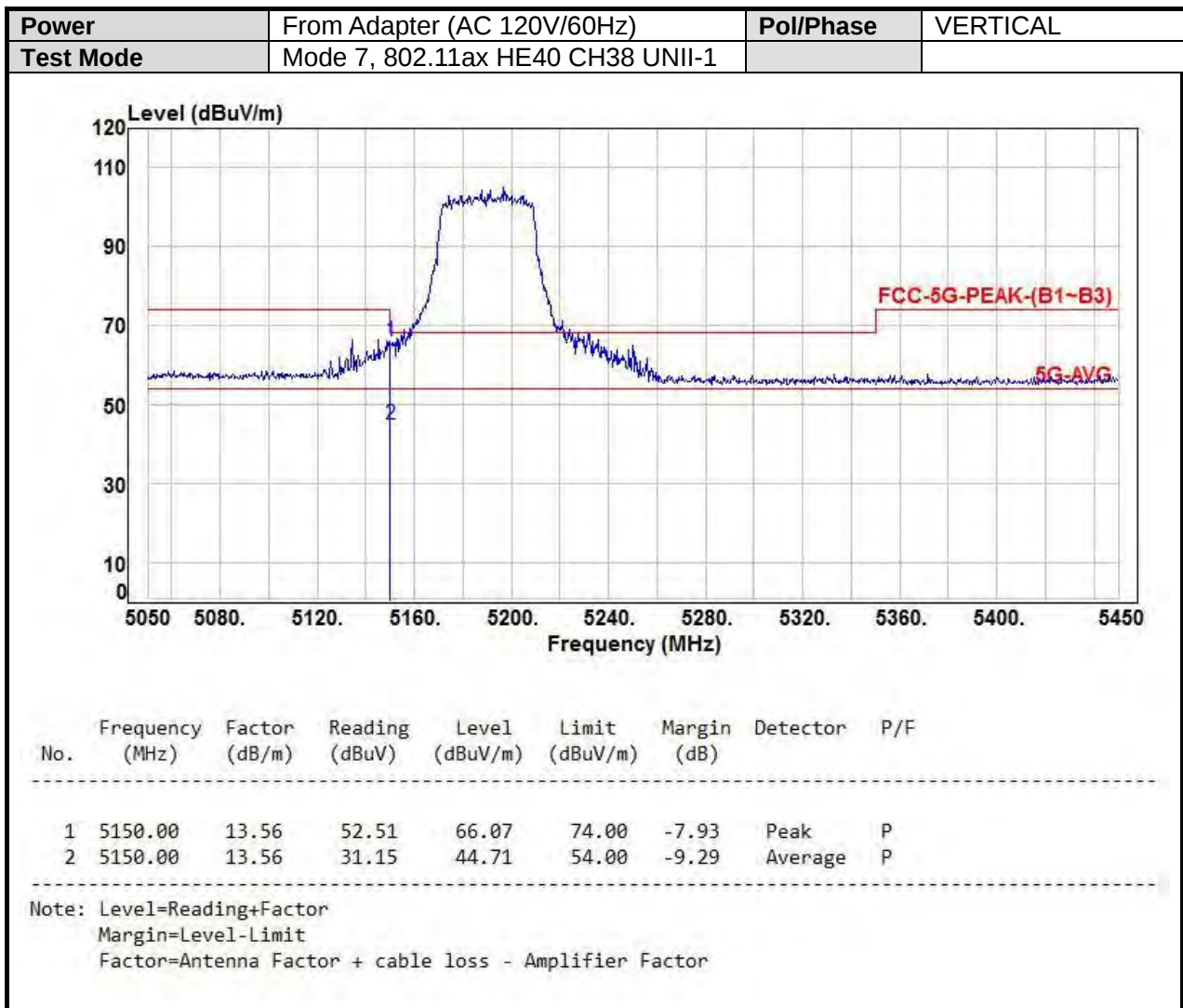


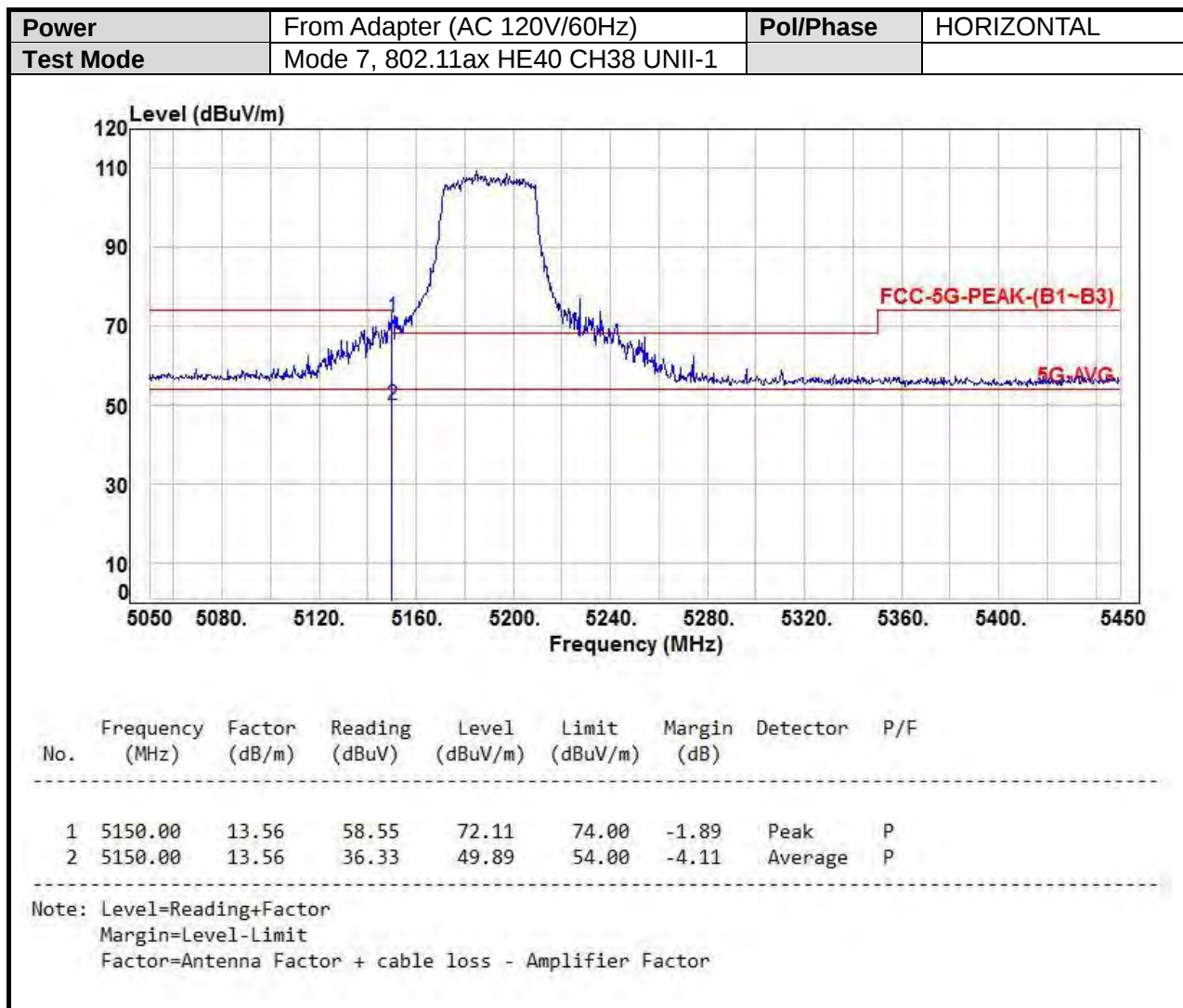


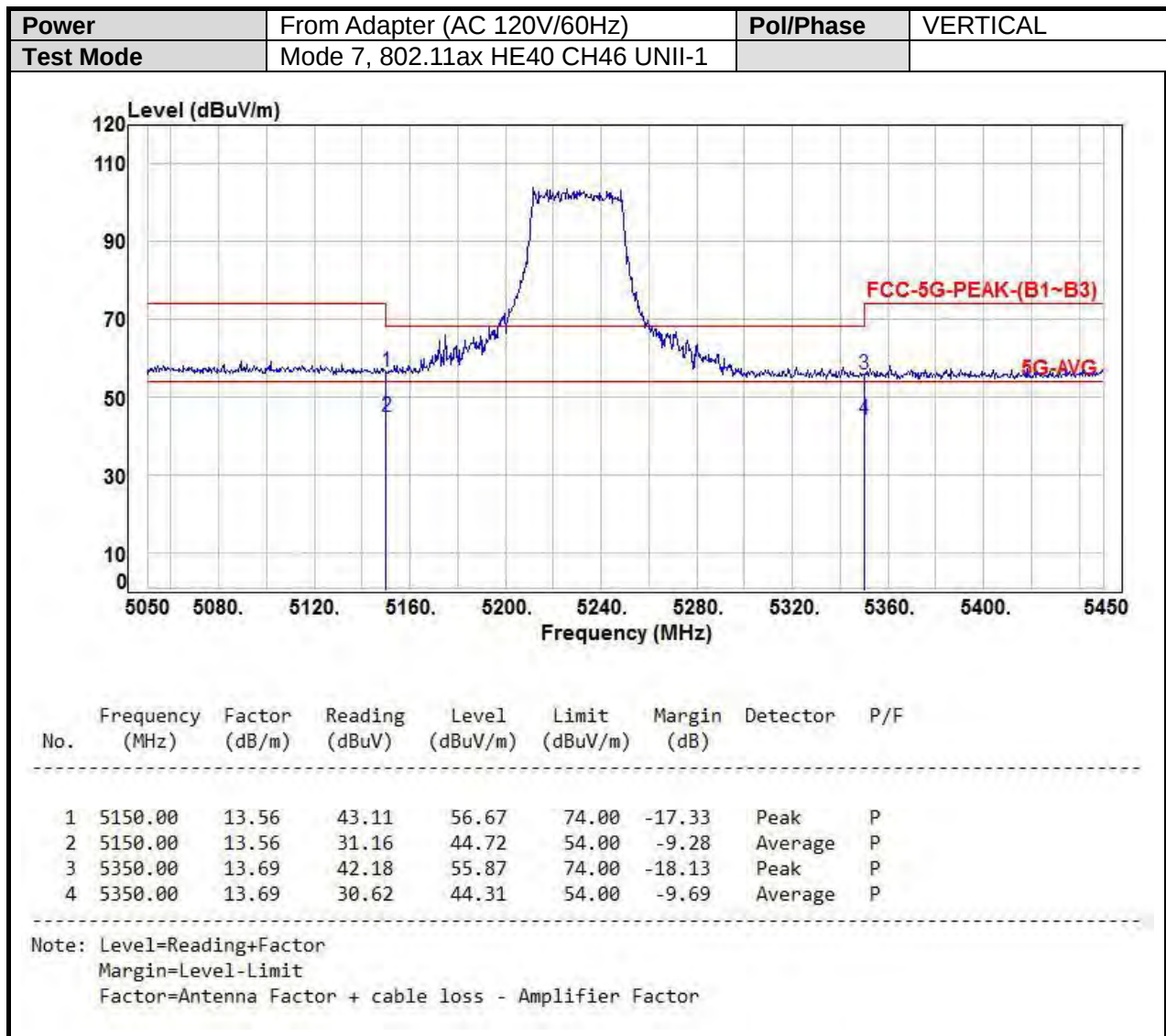


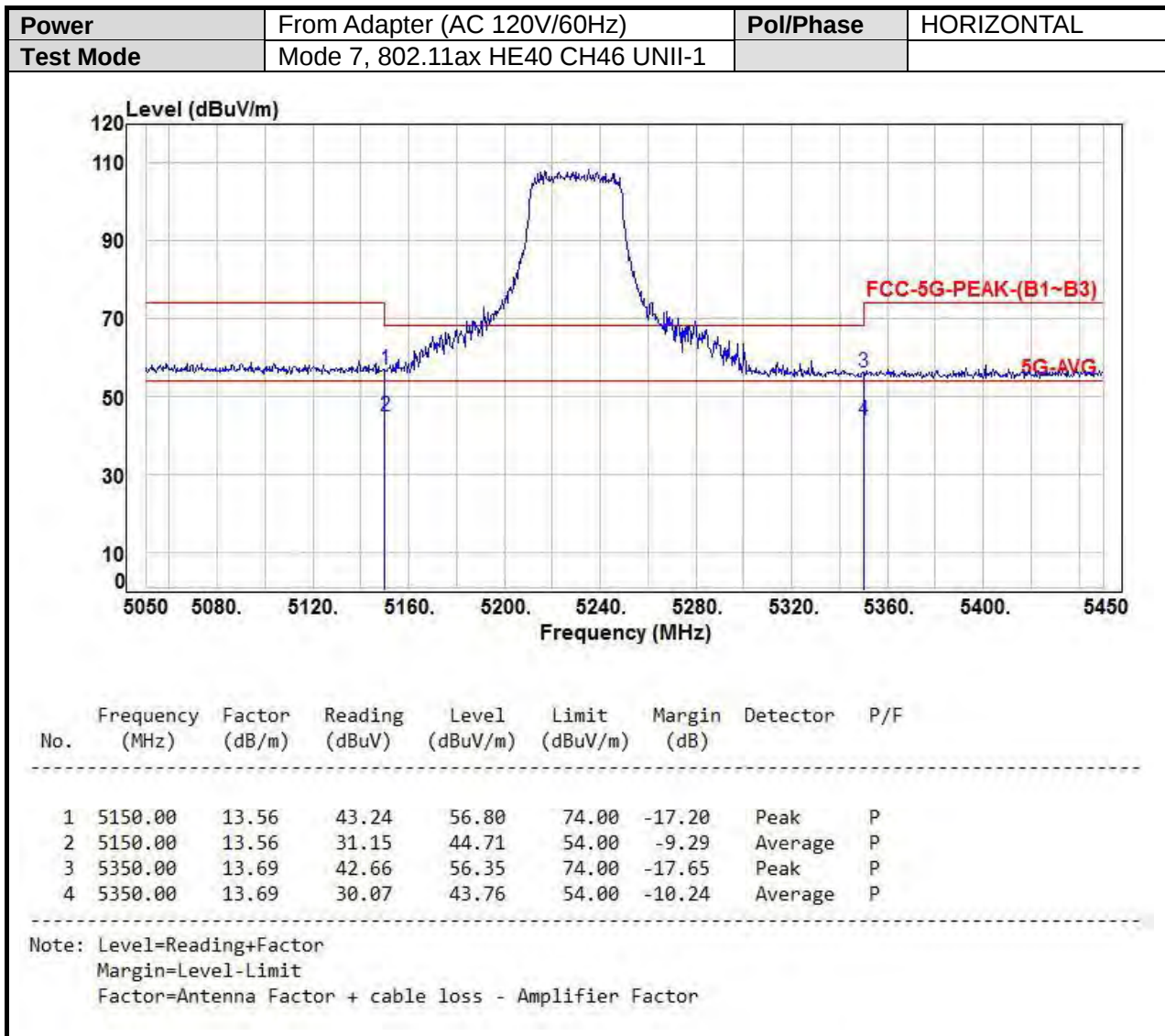






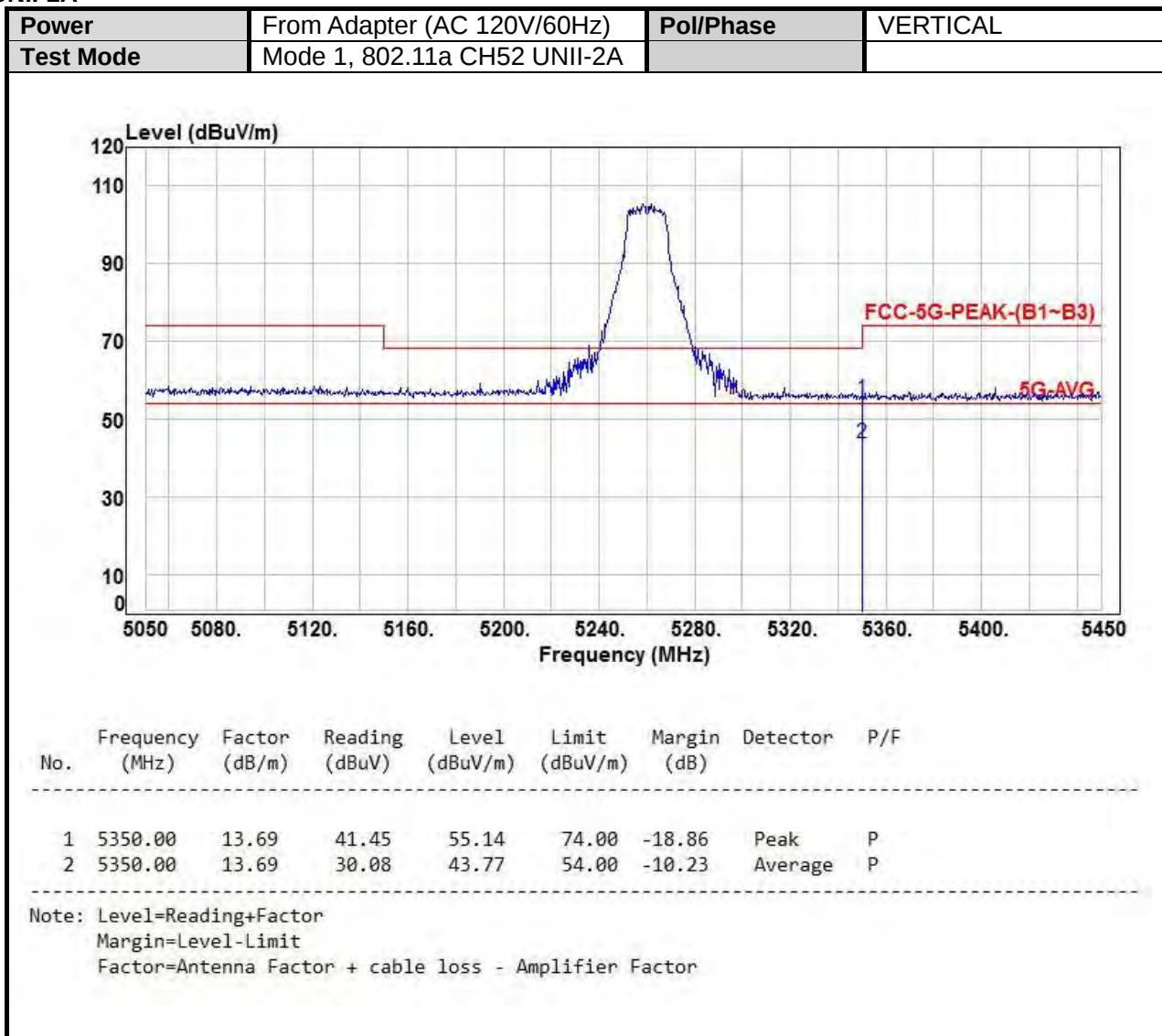


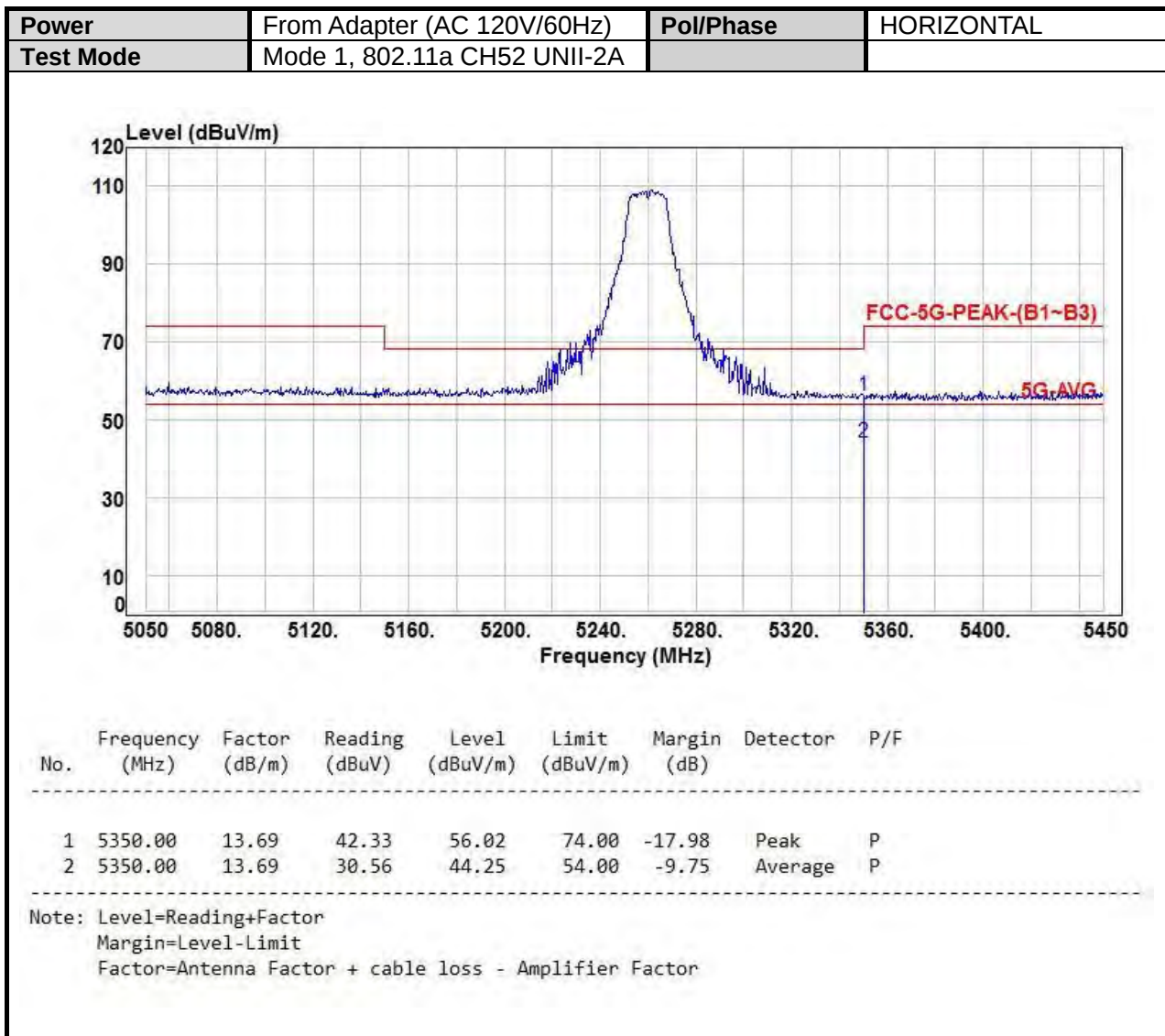


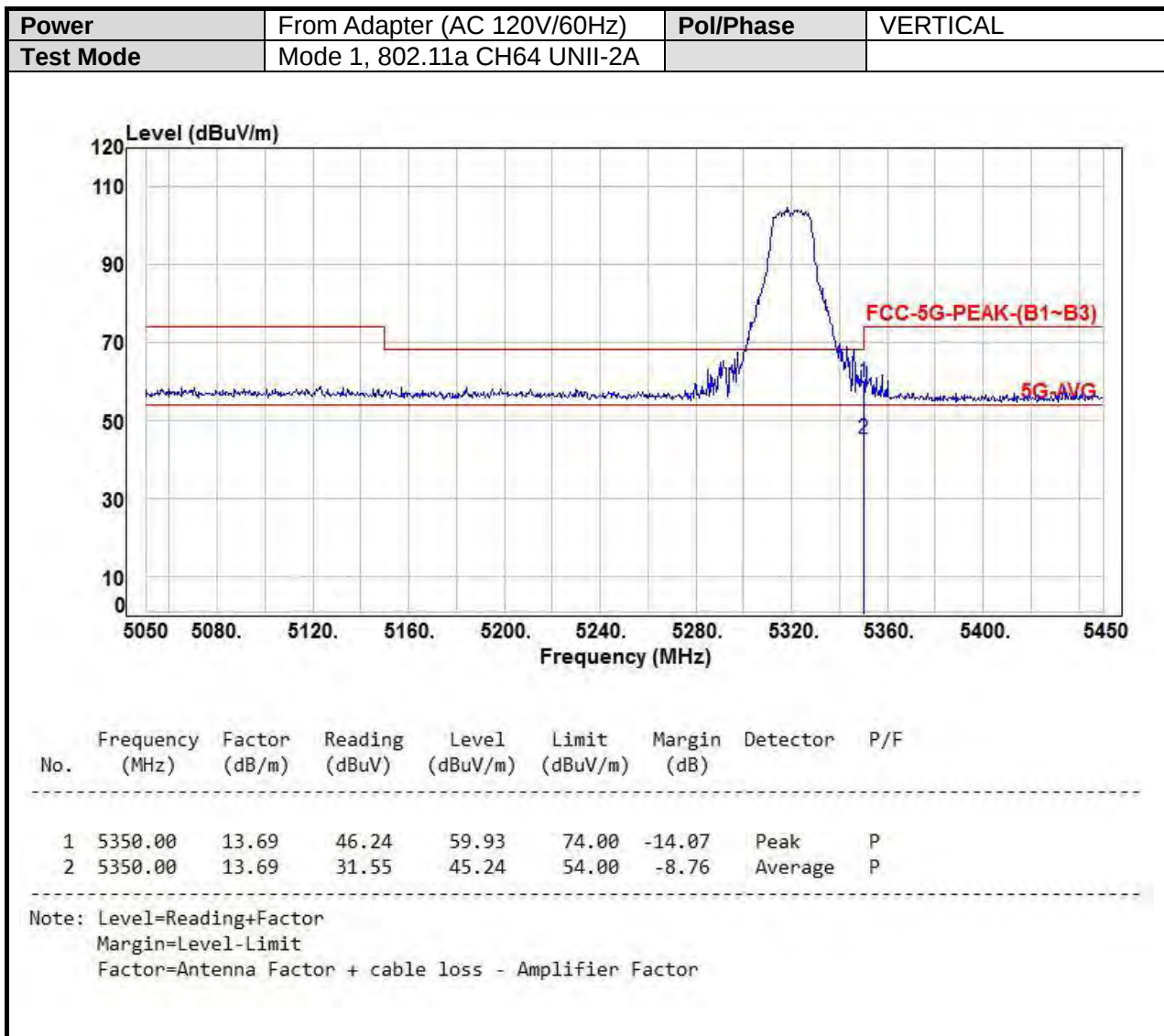


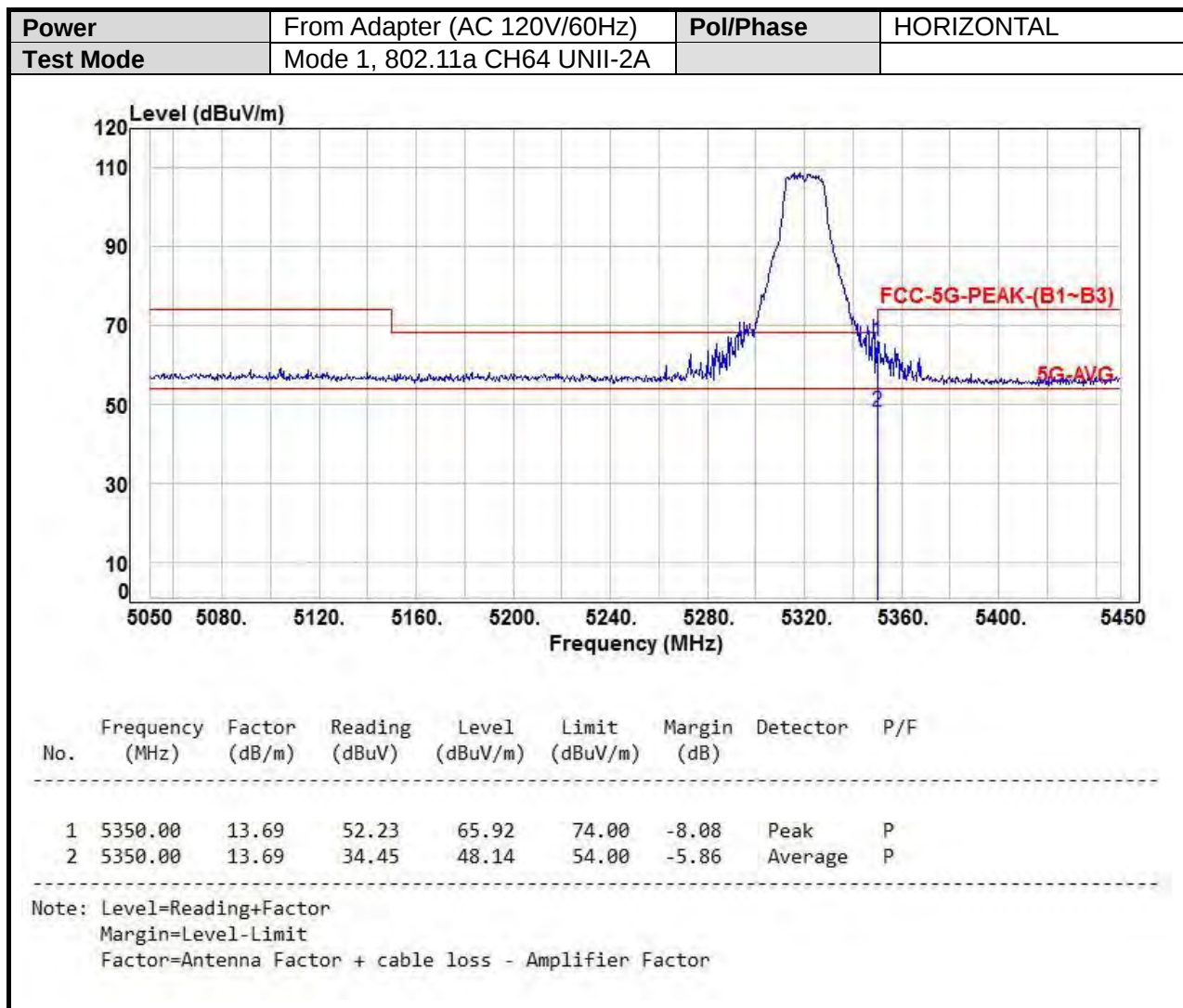


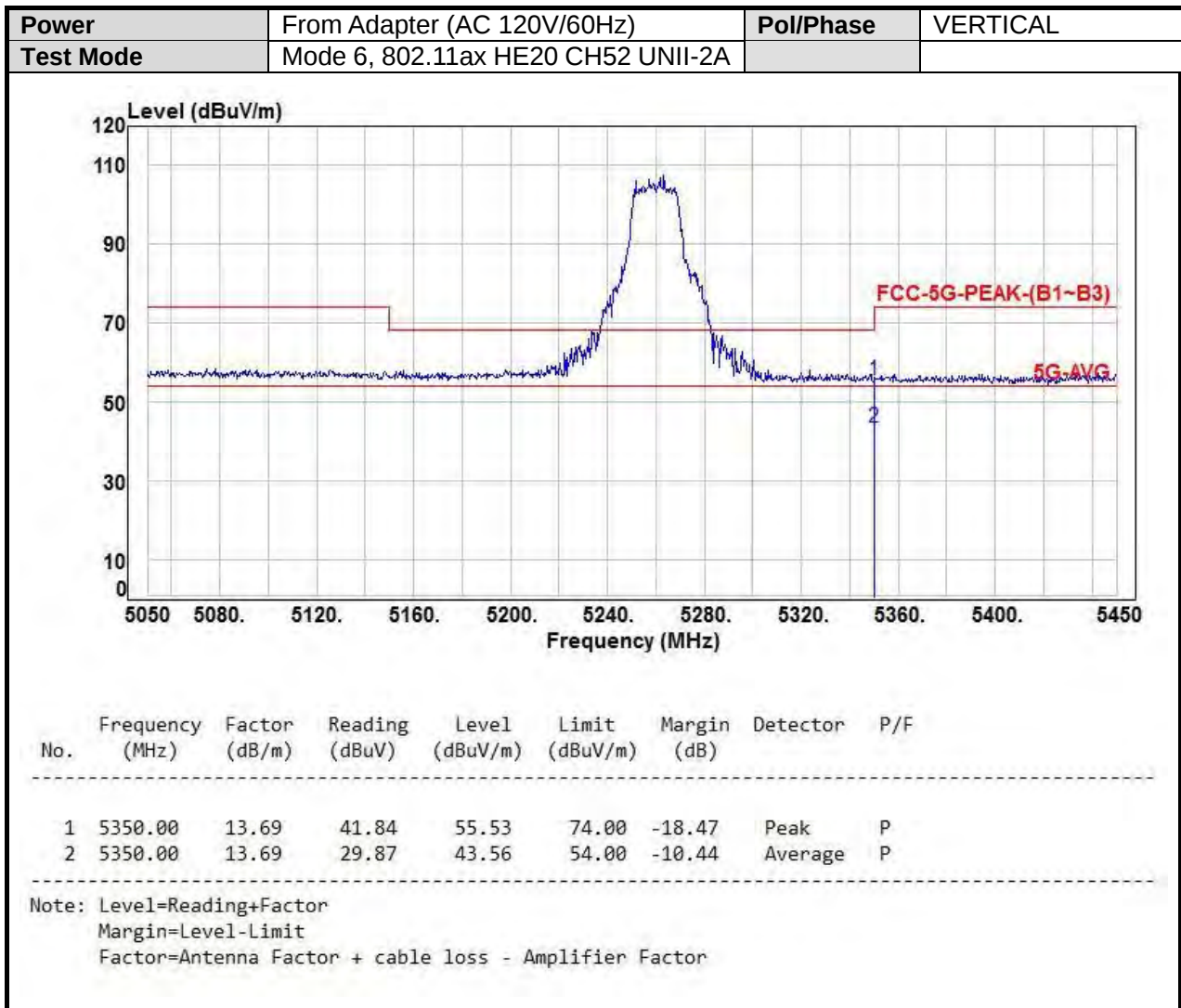
UNII-2A

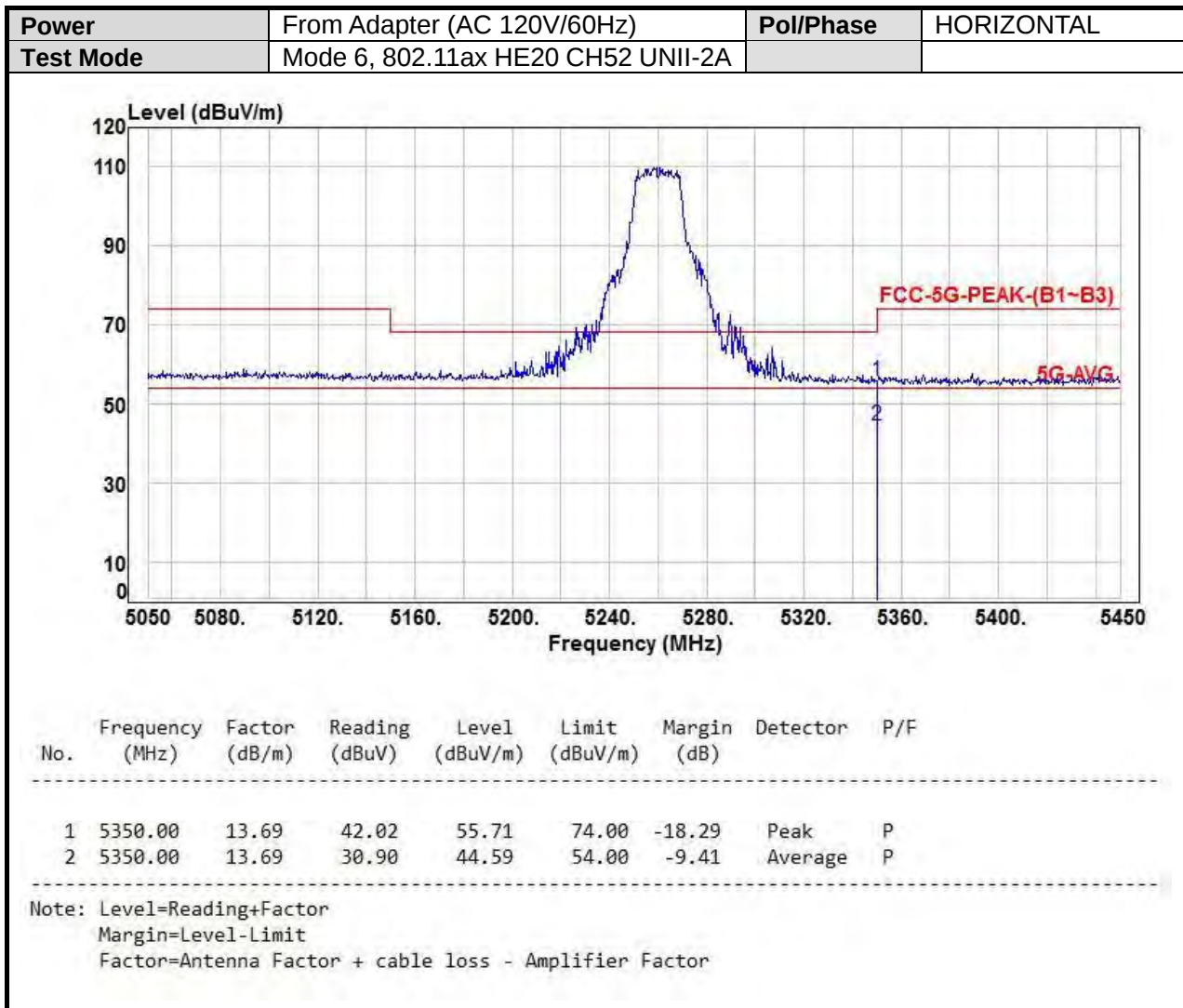


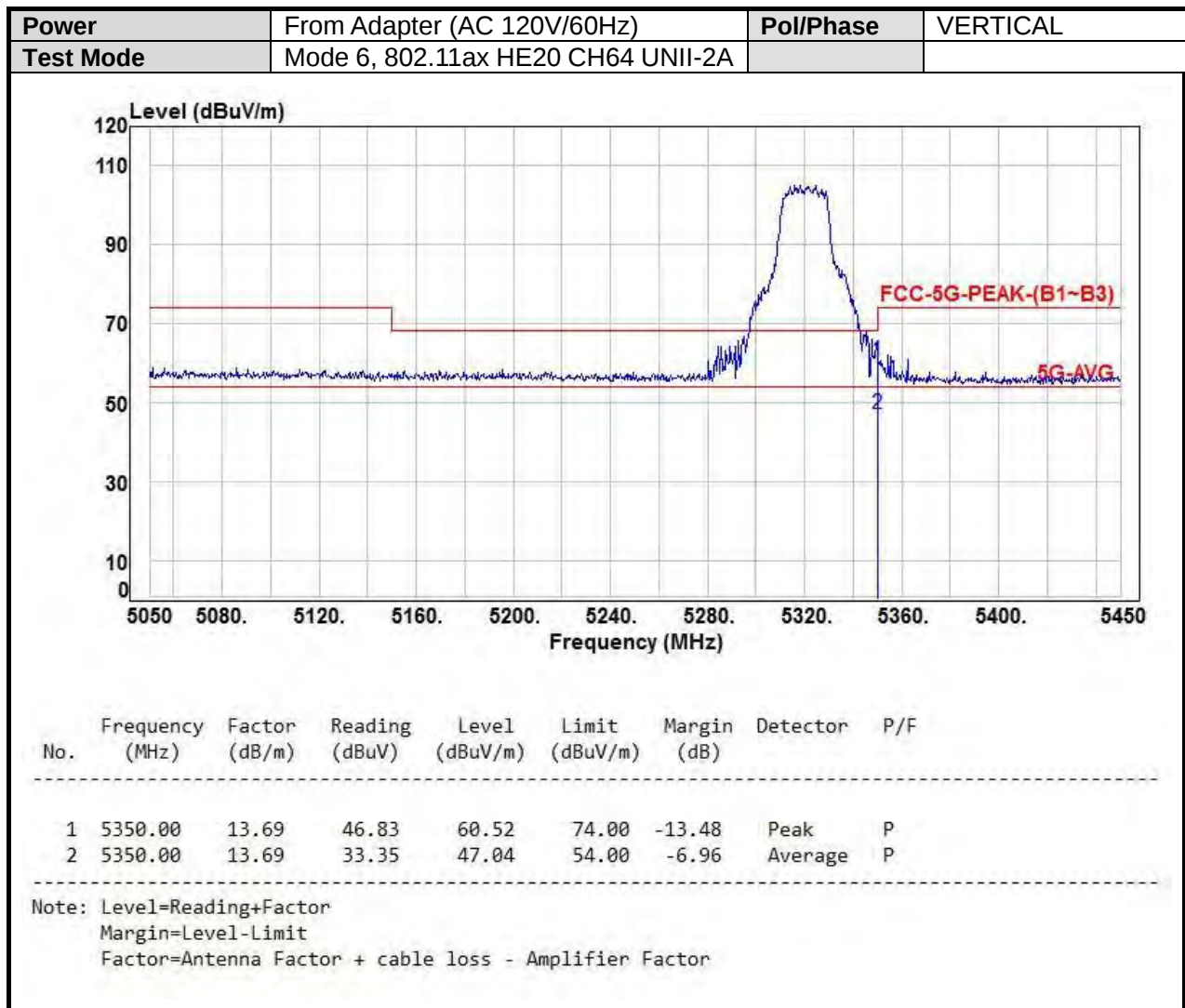


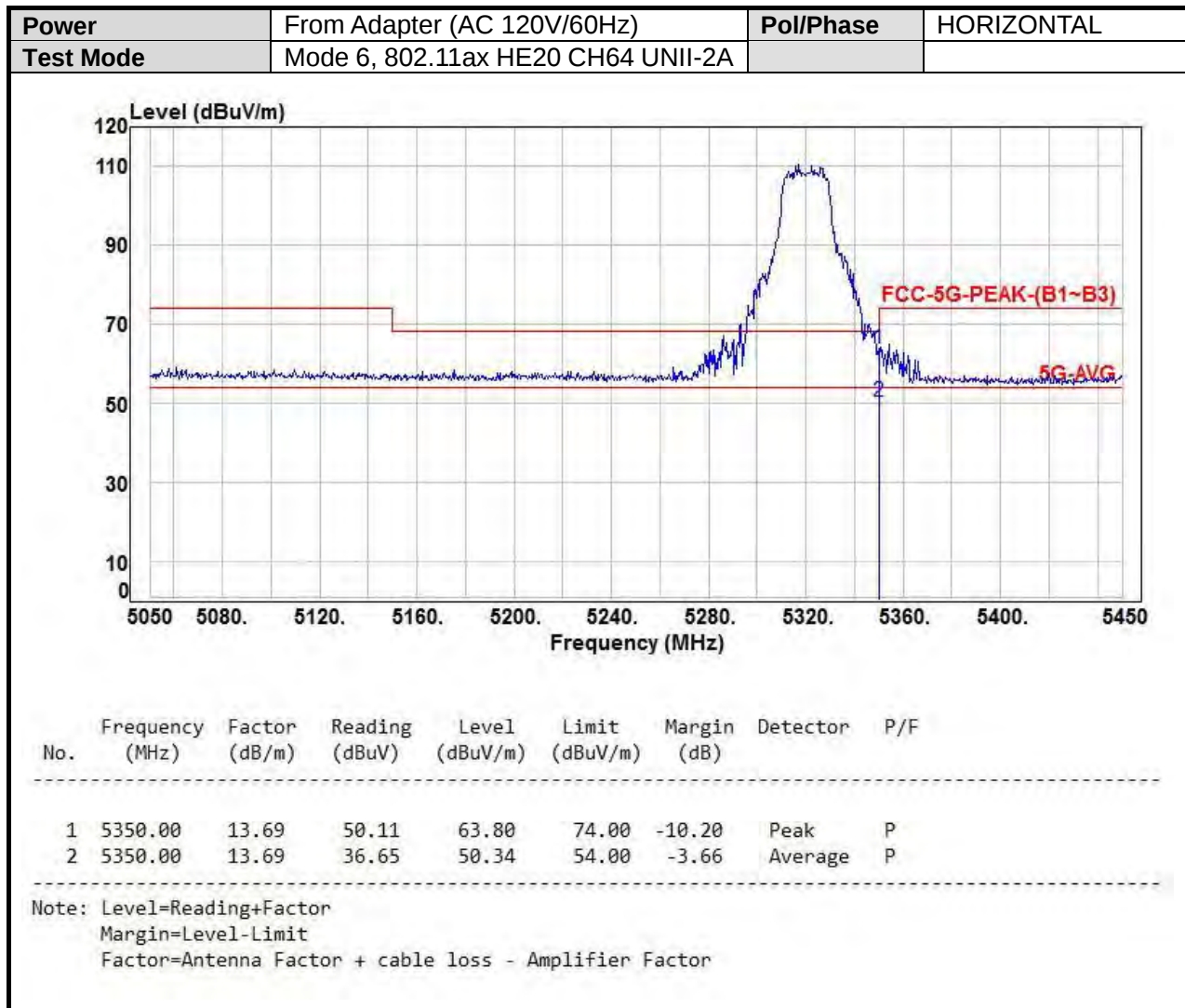


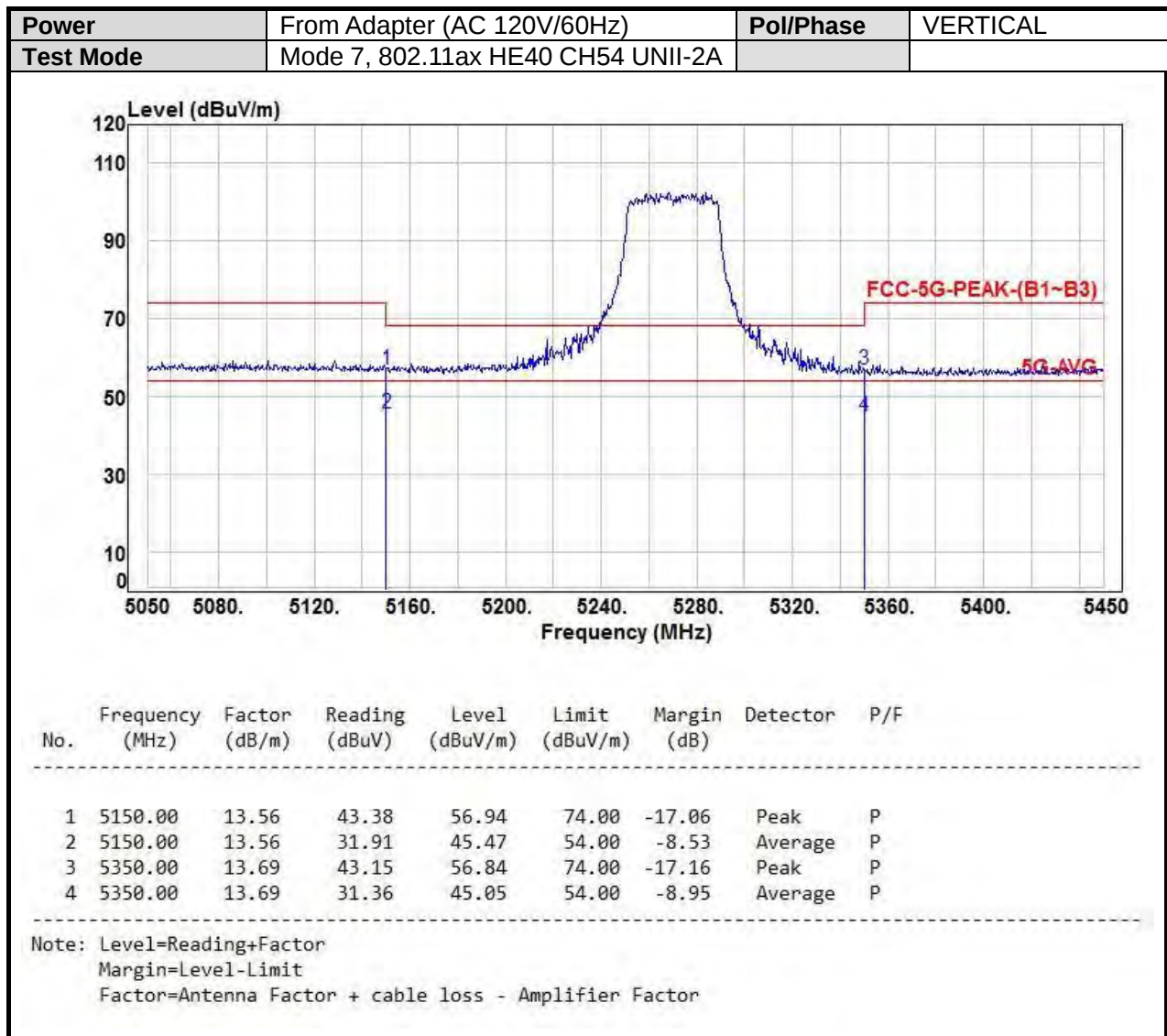


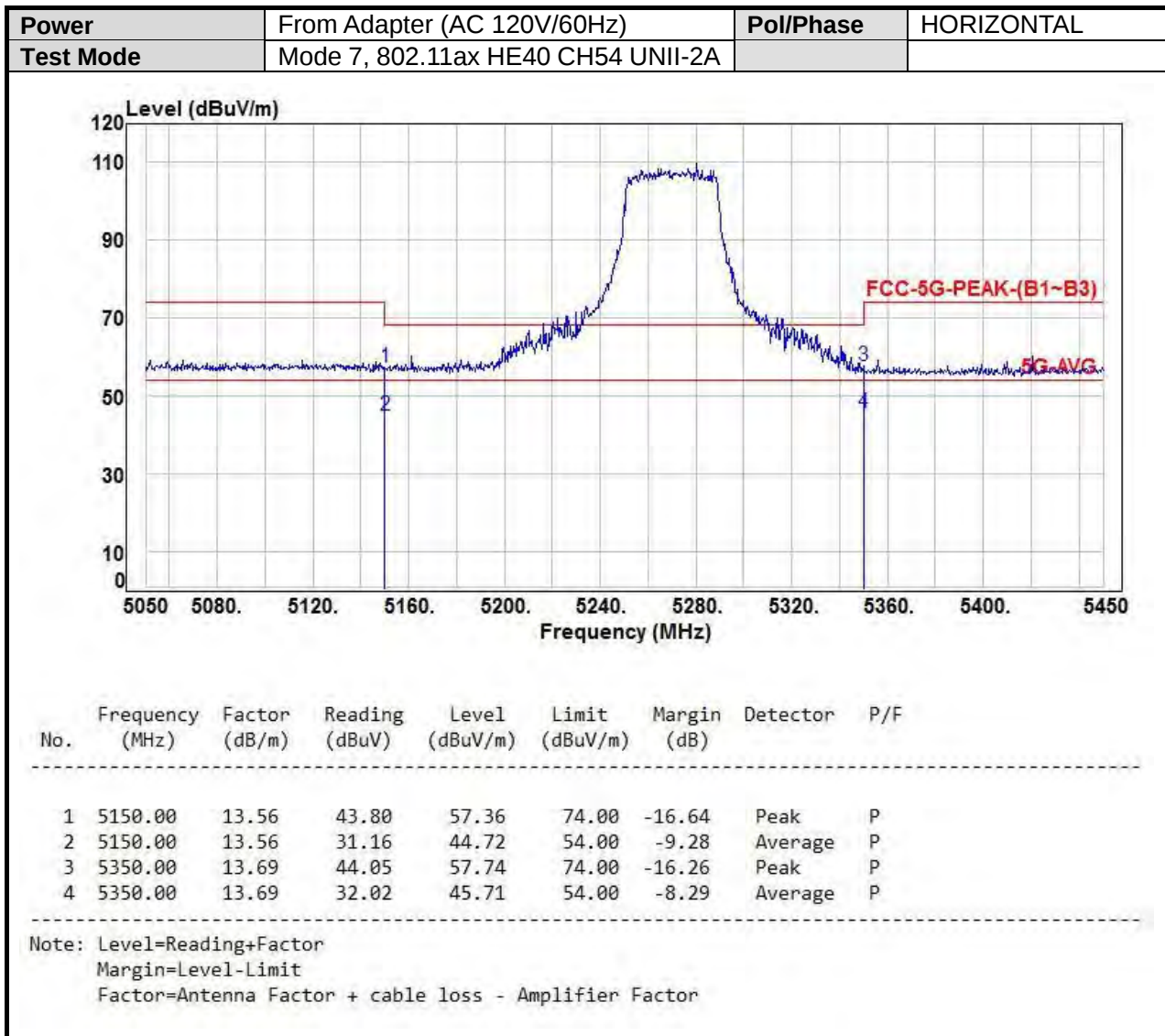


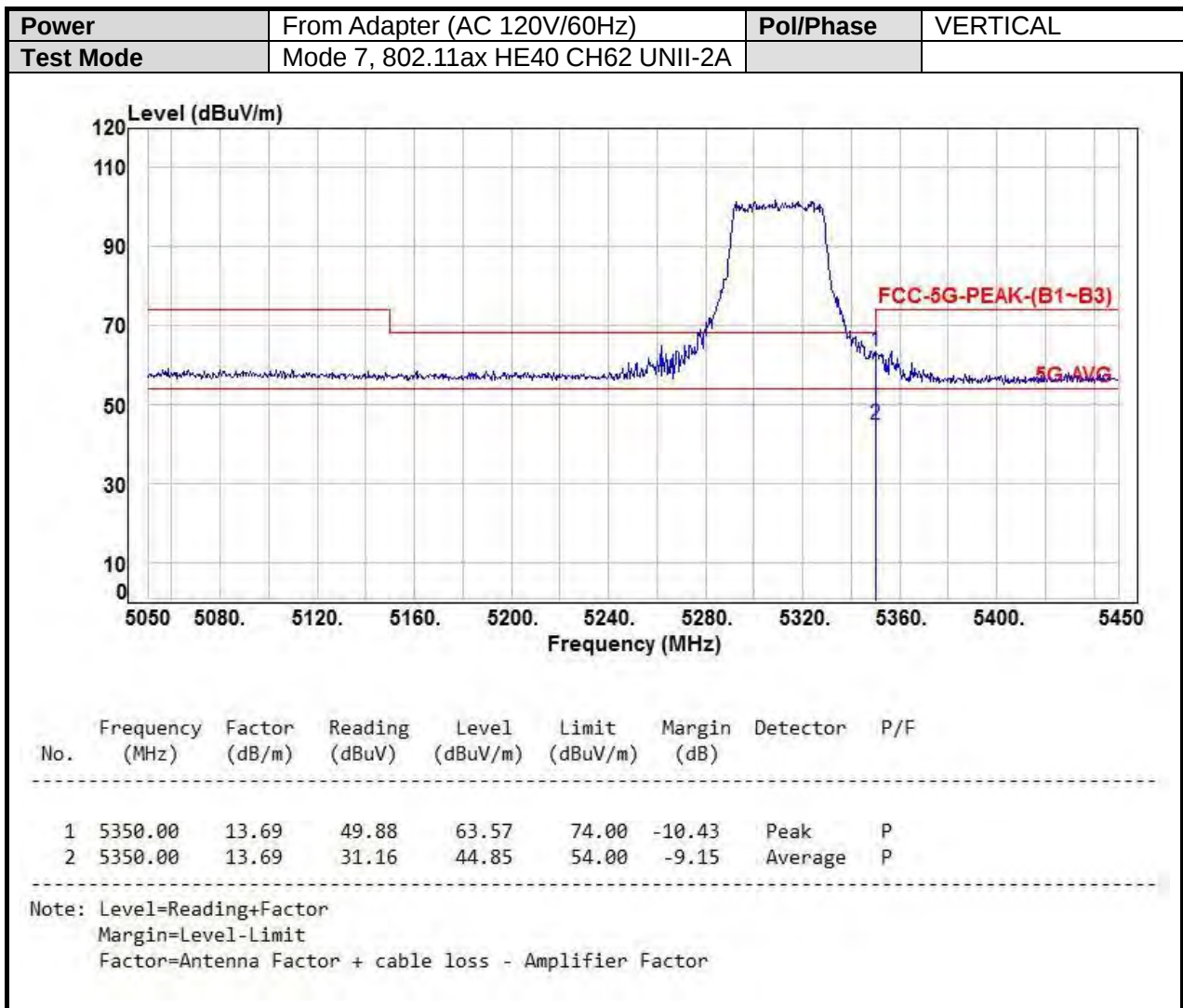


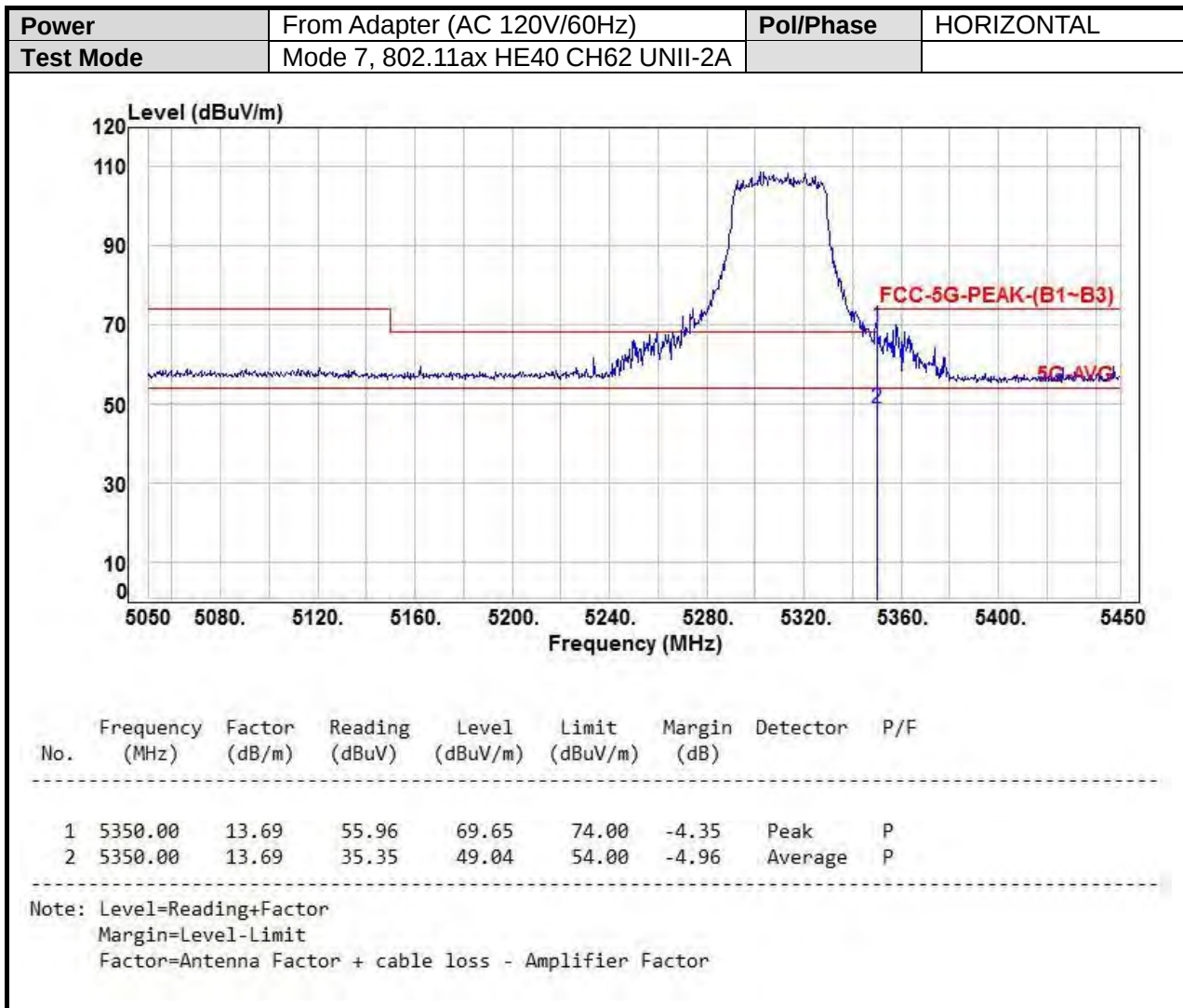






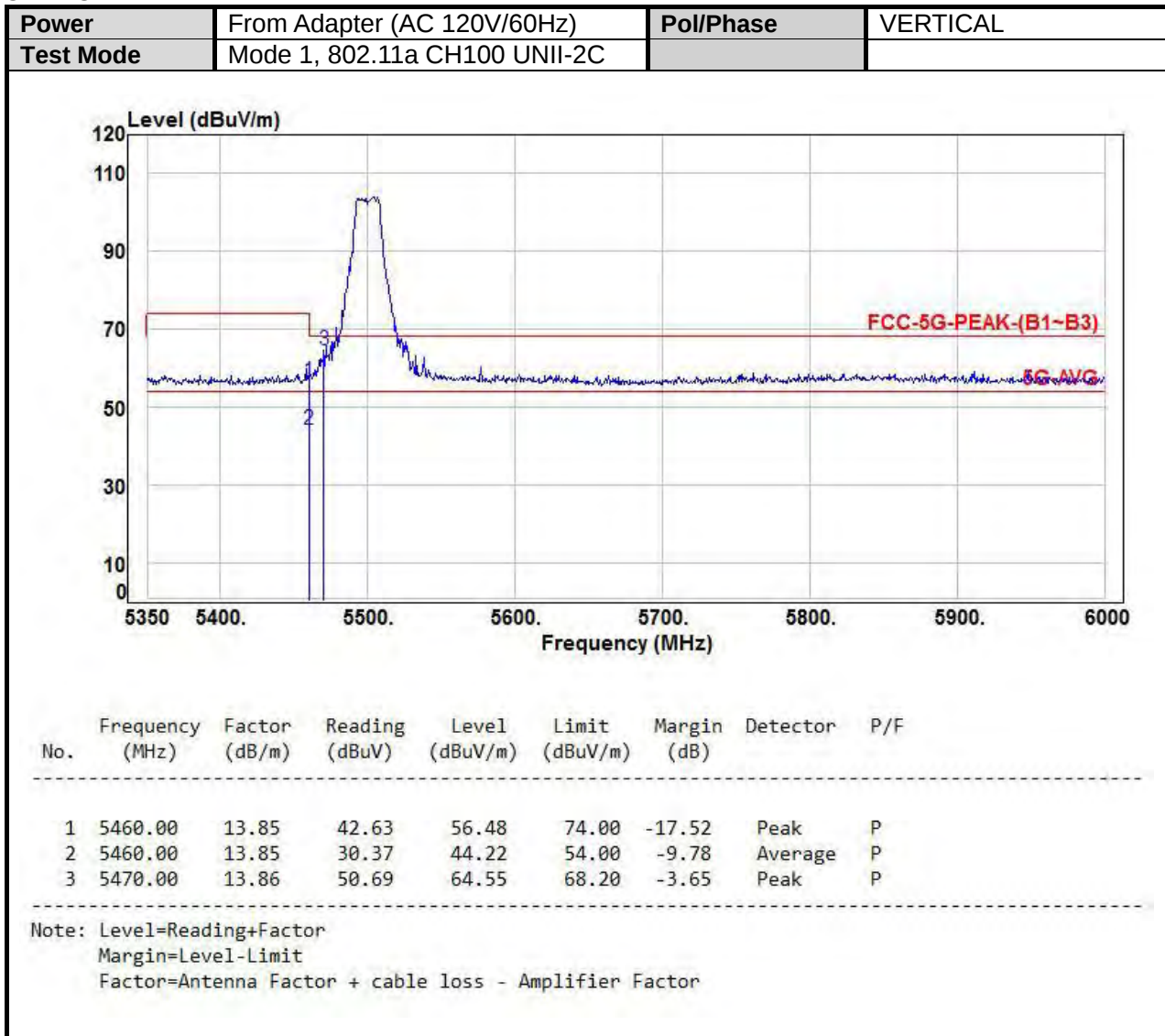


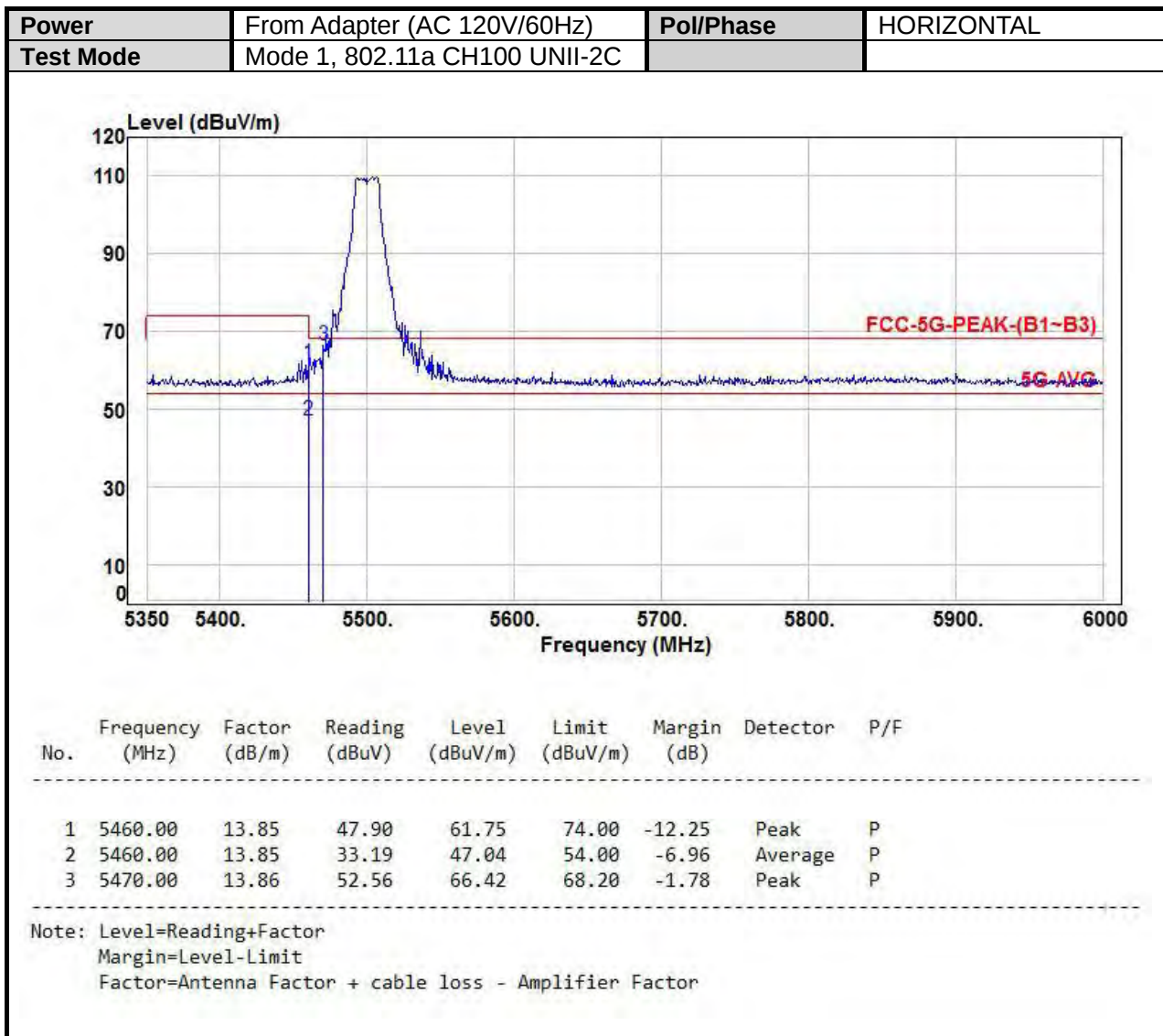


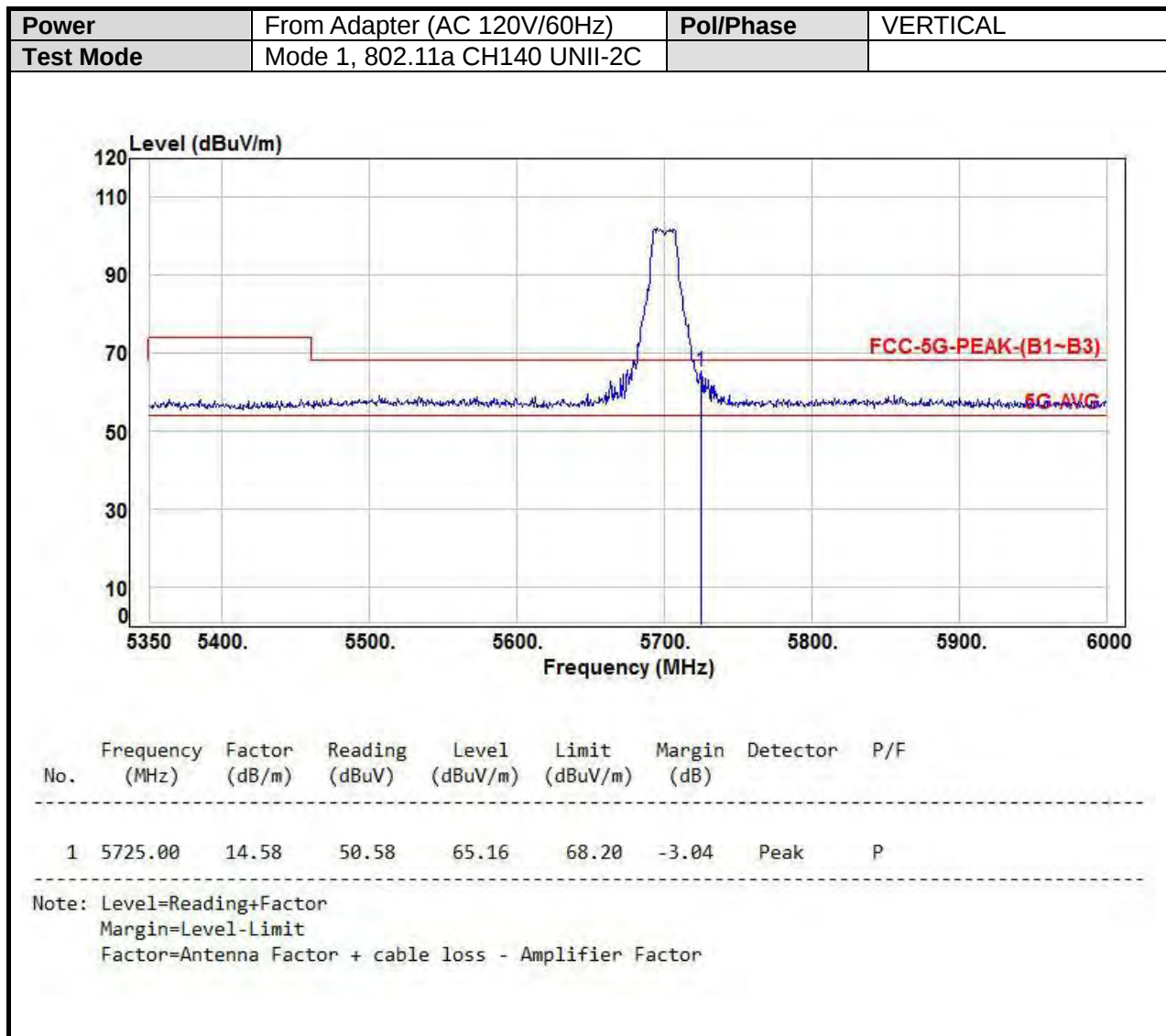


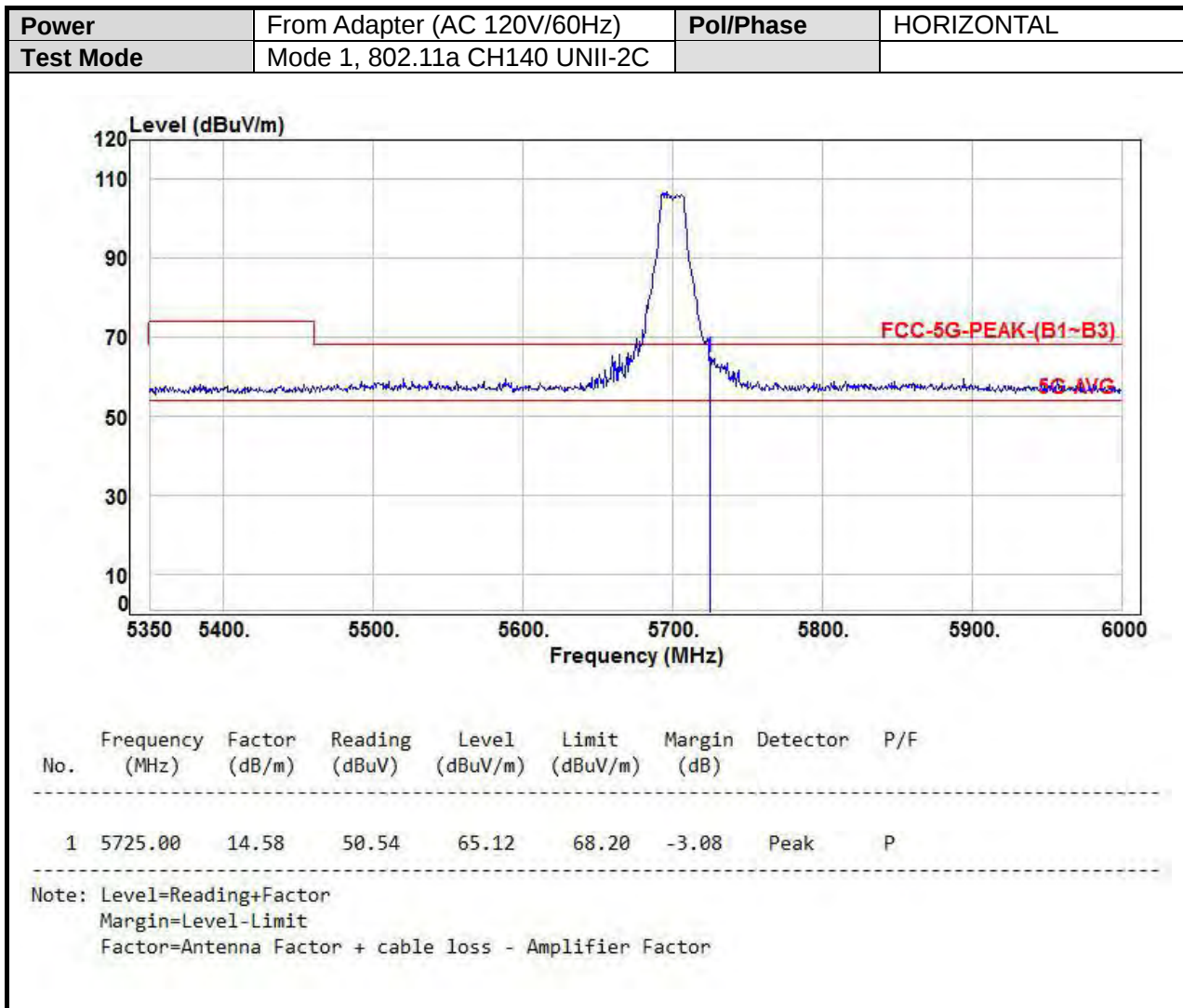


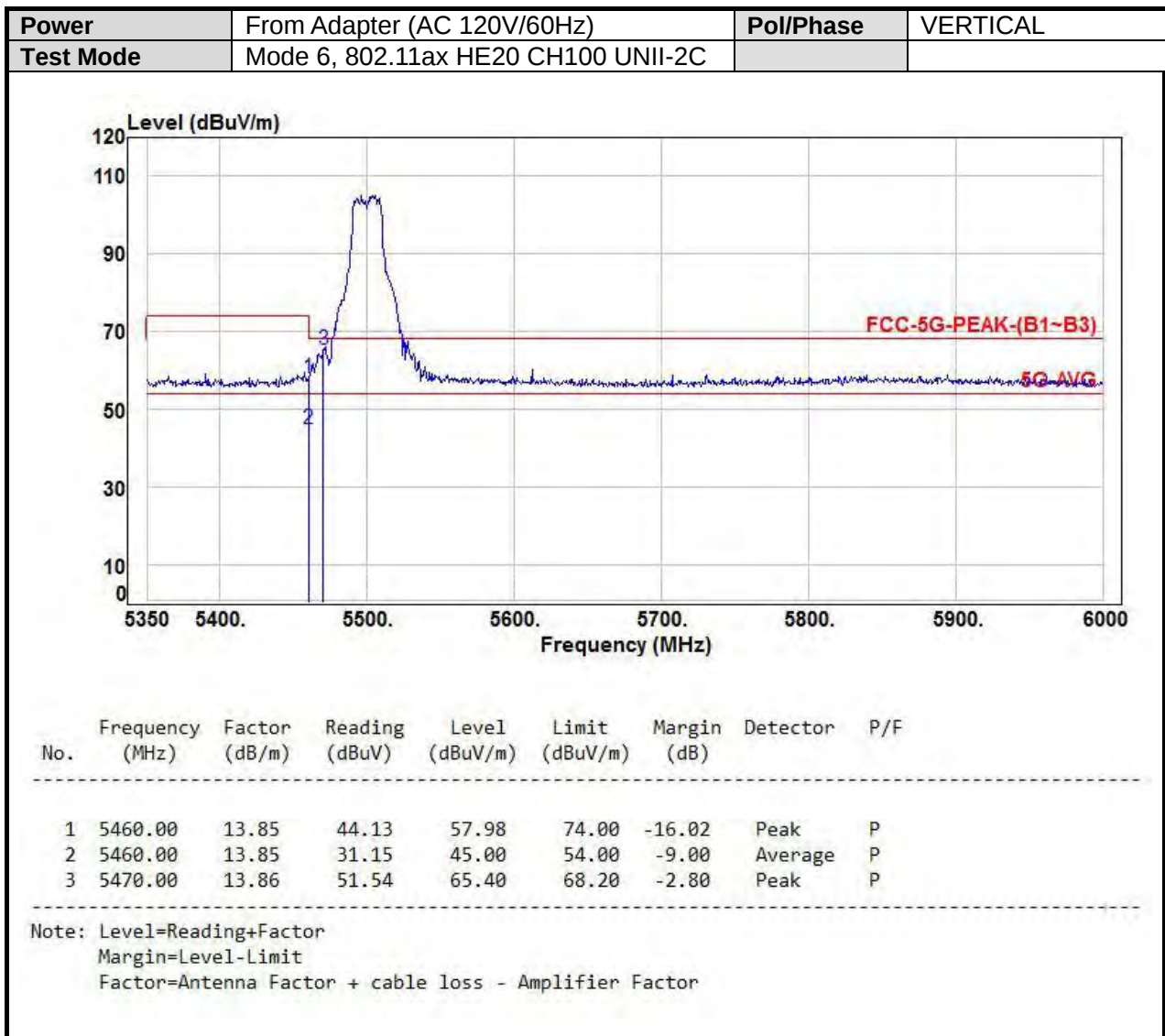
UNII-2C

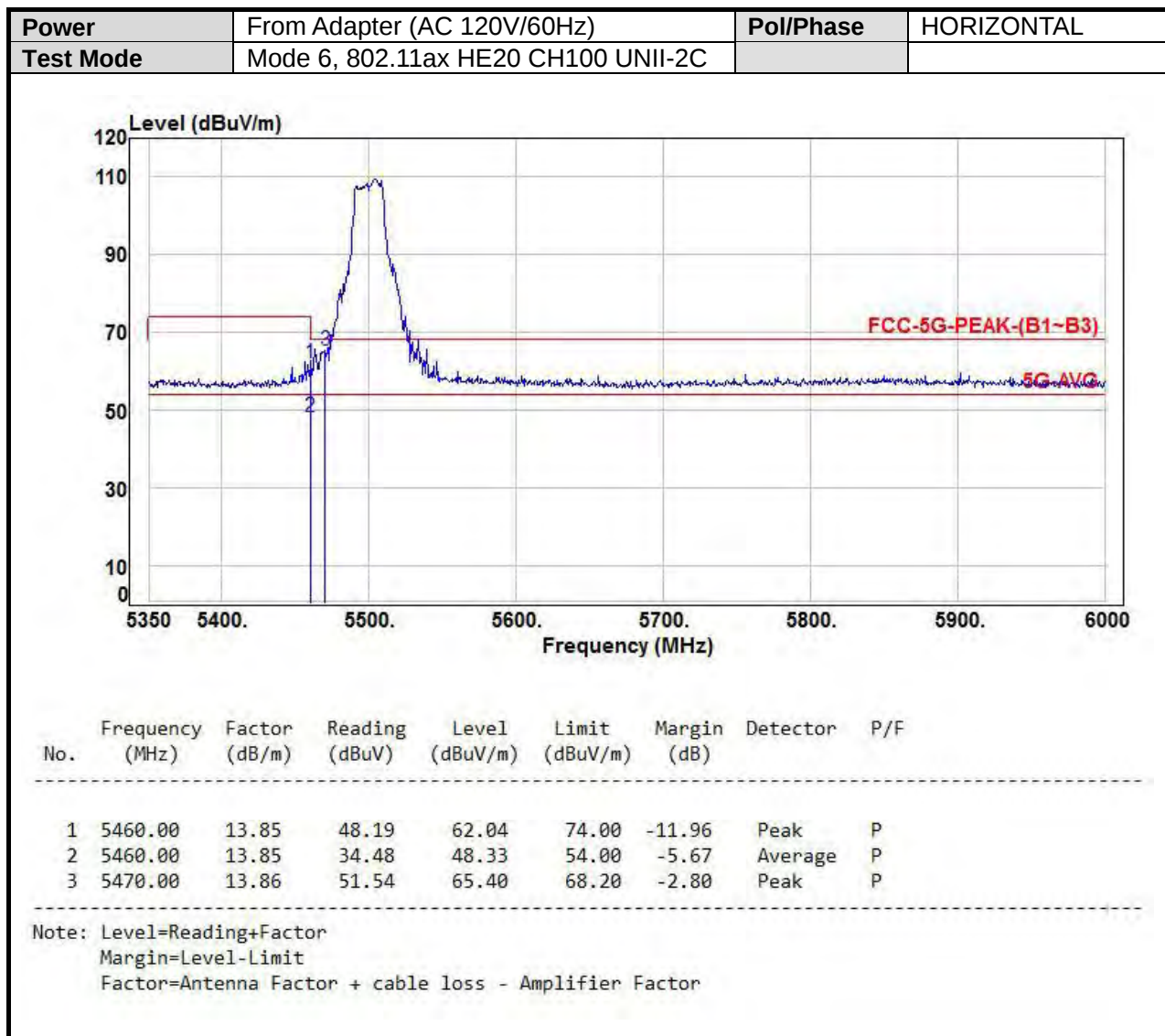


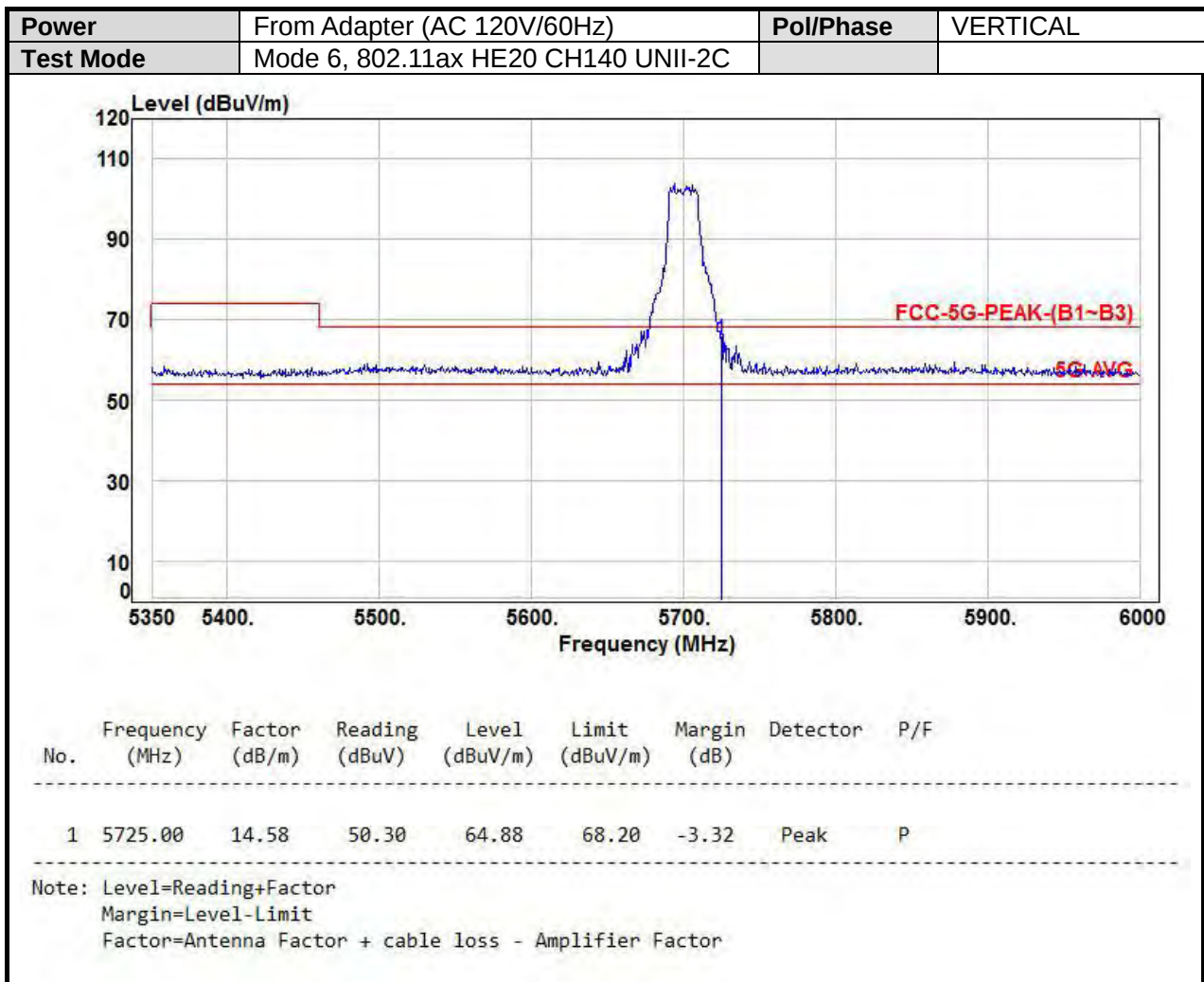


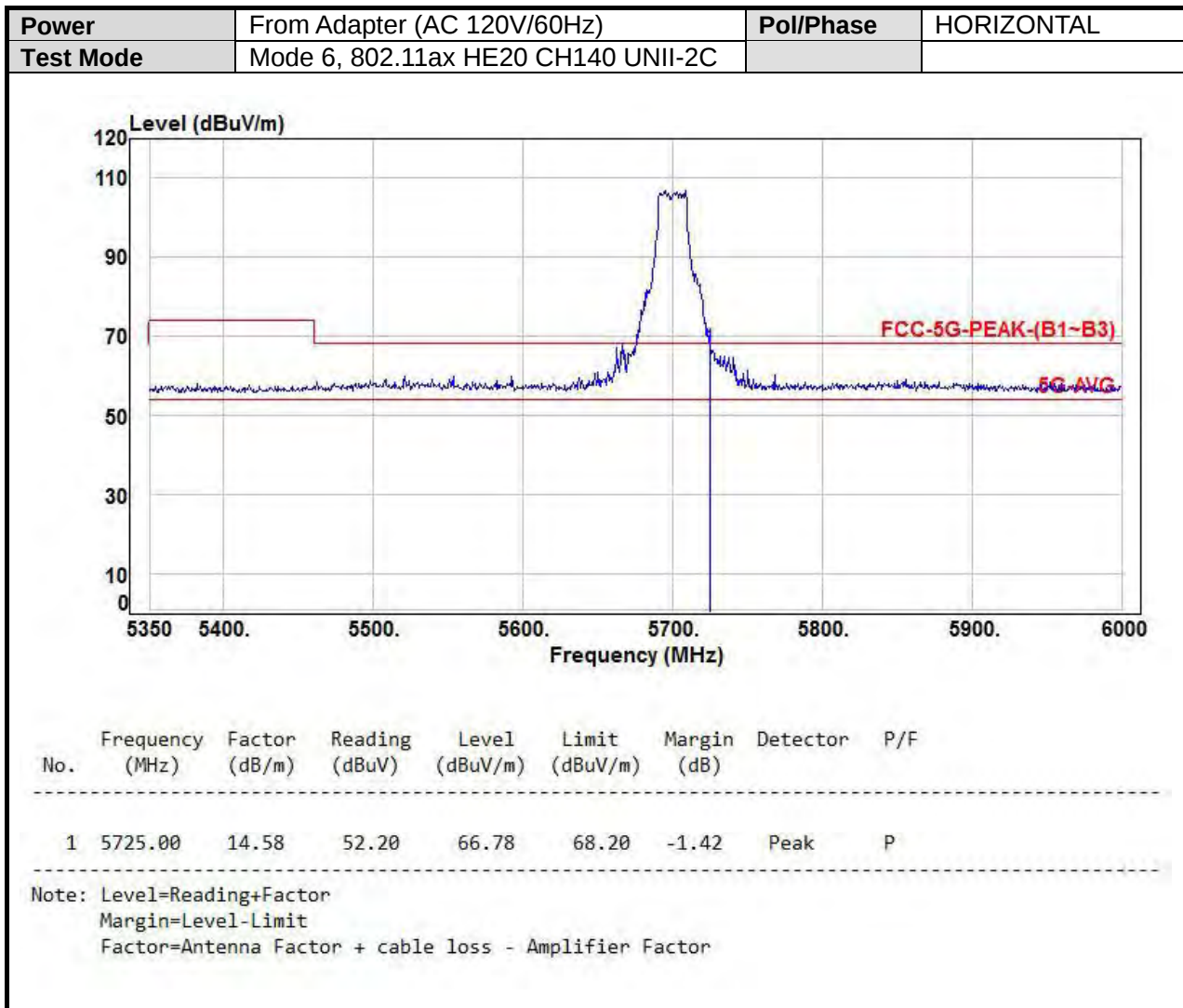


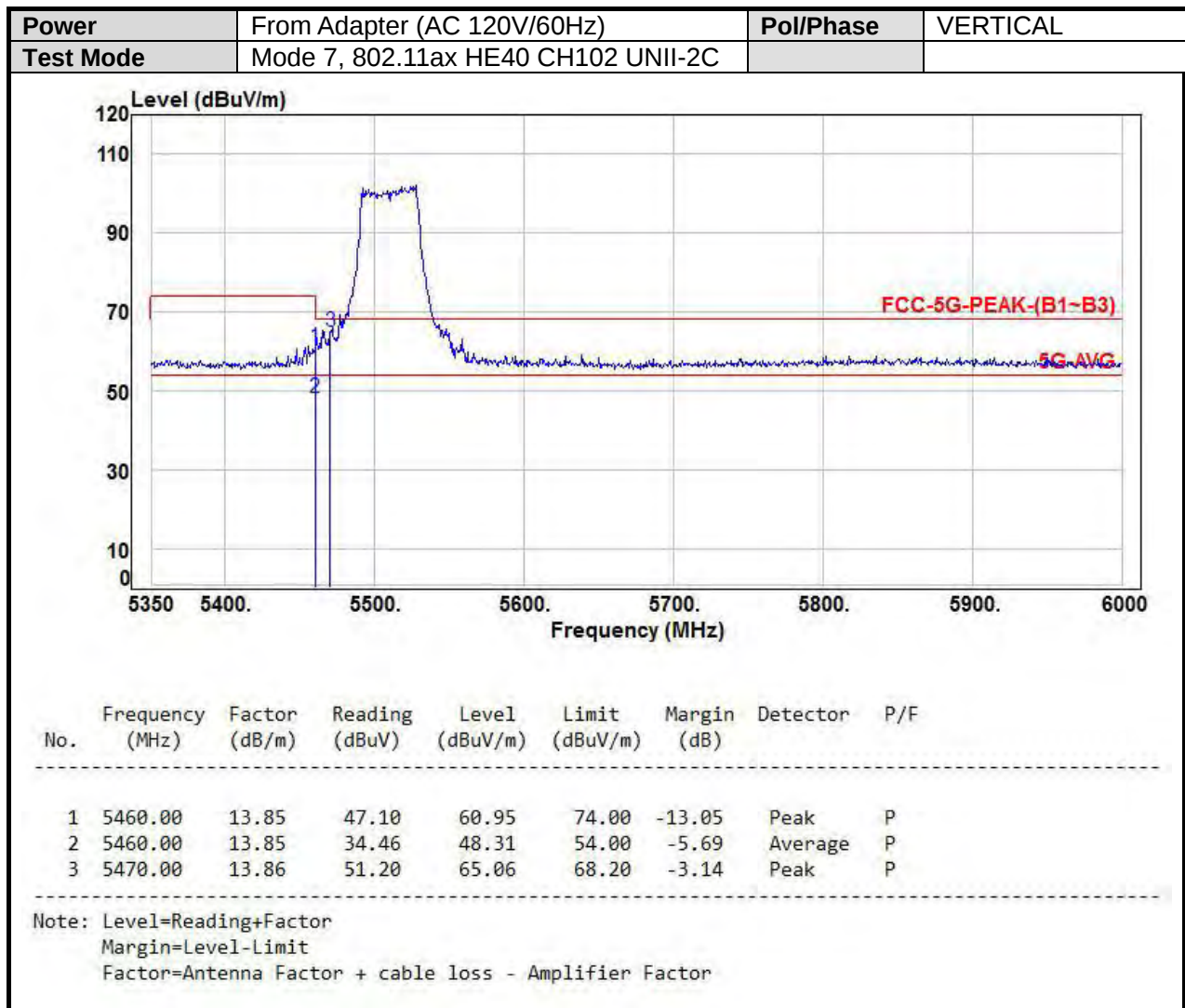


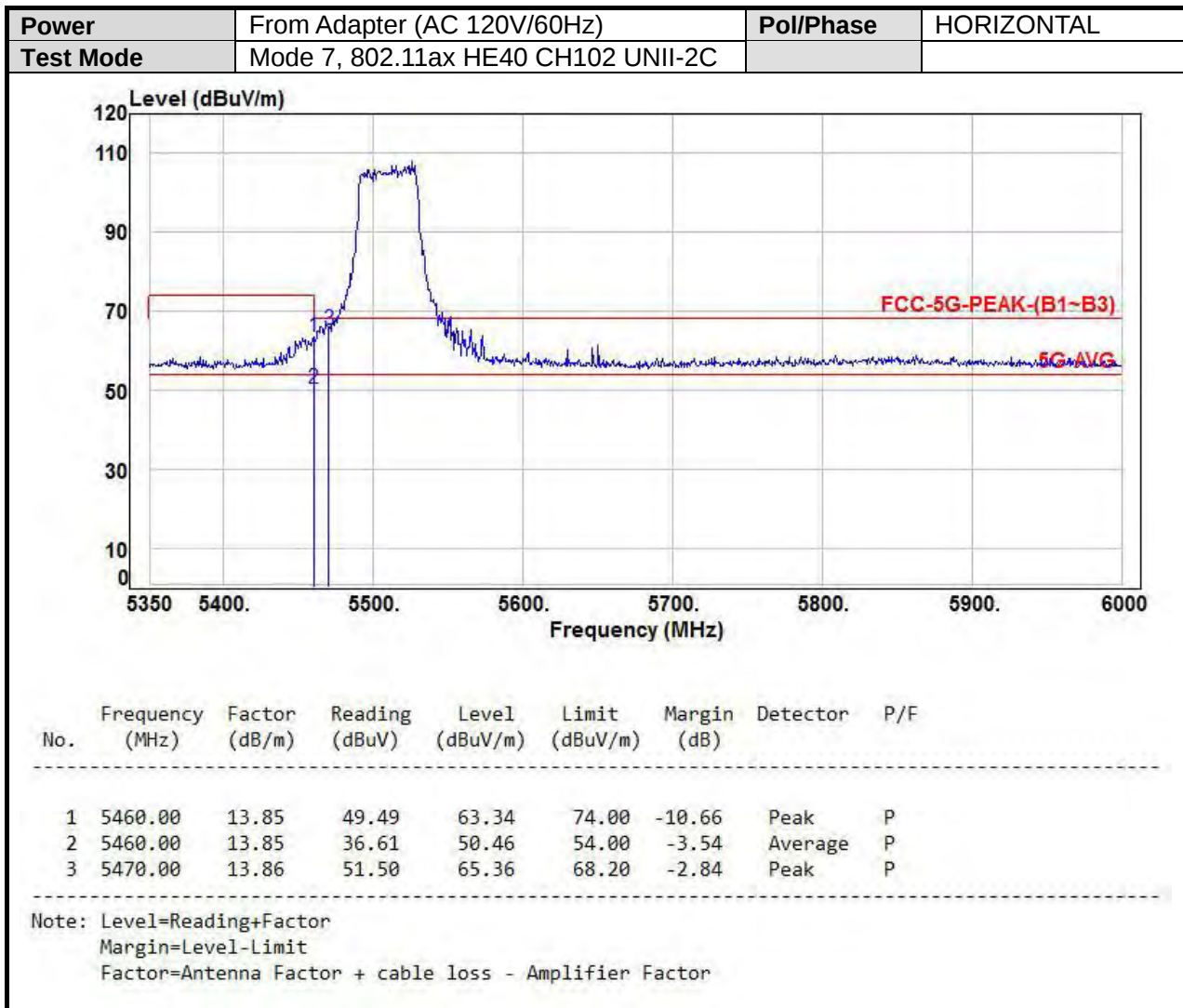


















UNII-3

