



FCC RADIO TEST REPORT

Applicant : Ubiquiti Inc.
Address : 685 Third Avenue, New York, New York 10017, USA
Equipment : Device Bridge IoT
Model No. : UDB-IoT
Trade Name : UBIQUITI
FCC ID : SWX-UDBI

I HEREBY CERTIFY THAT :

The sample was received on Apr. 28, 2025 and the testing was completed on Jul. 23, 2025 at CerpPASS Technology Corp. 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:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
25040654-TRFCC01	Jul. 30, 2025	Original
25040654-TRFCC01-A	Sep. 09, 2025	Update Standard



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

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

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Output Power	PASS
15.247(e)	. 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

Frequency Range	802.11b/g/n: 2400MHz-2483.5MHz
Center Frequency Range	802.11b/g/n: 2412MHz-2462MHz
Modulation Type	802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM
Modulation Technology	DSSS, OFDM
Data Rate	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40
Antenna Type	ANT A: PIFA Antenna ANT B: PIFA Antenna ANT C: Monopole Antenna
Antenna Gain	ANT A: 3.0dBi ANT B: 3.0dBi ANT C: 4.0dBi

Note: For more details, please refer to the User's manual of the EUT.

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437	---	---

802.11n HT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
*03	2422	*09	2452
04	2427	---	---
05	2432	---	---
*06	2437	---	---

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.
- An executive program, "command Ver.: N/A" under Windows 10 system was executed to transmit and receive data via WLAN.
- For this report has two kinds of Antenna combinations. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode 1	Antenna A + B: 802.11g (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 2	Antenna A + B: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz
Test Mode 3	Antenna A + B: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 240V/60Hz
Test Mode 4	Antenna A + C: 802.11g (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 5	Antenna A + C: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz
Test Mode 6	Antenna A + C: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 240V/60Hz
caused "Test Mode 2,5" generated the worst case, they were reported as the final data.	
Radiated Emissions (30MHz ~ 1GHz)	
Test Mode 1	Antenna A + B: 802.11g (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 2	Antenna A + B: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz
Test Mode 3	Antenna A + B: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 240V/60Hz
Test Mode 4	Antenna A + C: 802.11g (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz)
Test Mode 5	Antenna A + C: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz
Test Mode 6	Antenna A + C: 802.11g (6Mbps), TX Mode, DC Power Supply 12V/1A from AC 240V/60Hz
caused "Test Mode 2,5" generated the worst case, they were reported as the final data.	
Radiated Emissions (1GHz ~ 25GHz)	
Test Mode 1	Antenna A + B, TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz
Test Mode 2	Antenna A + C, TX Mode, DC Power Supply 12V/1A from AC 120V/60Hz

The EUT incorporates a MIMO function

Modulation Type	TX CONFIGURATION
802.11b	2TX
802.11g	2TX
802.11n HT20	2TX
802.11n HT40	2TX

*The EUT has two kinds of Antenna combinations (ANT A + ANT B, ANT A + ANT C).



2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	N/A
Adapter	UBIQUITI	GP-M015-QC	2.0m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Adapter	UBIQUITI	GP-M015-QC	2.0m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / NS	N/A
DC Power Supply	Gwinstek	GPR-3060D	N/A	N/A

AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	ASUS	P2430U	N/A	Adapter / 1.8m / NS
Adapter	UBIQUITI	GP-M015-QC	2.0m / NS	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	1.2m / NS	N/A
DC Power Supply	Gwinstek	GPR-3060D	N/A	N/A

**2.5 General Information of Test**

Organization	CerpPASS Technology Corp.		
☒ Test Site	CerpPASS 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 9kHz to 25,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

ANT A + B

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/05/16	25.7°C / 46%	Leon Huang
RF Conducted	RFCON01-NK	2025/05/18	25.2°C / 48%	Leon Huang
RF Conducted	RFCON01-NK	2025/05/19	26.1°C / 45%	Leon Huang
RF Conducted	RFCON01-NK	2025/06/01	25.5°C / 46%	Leon Huang
RF Conducted	RFCON01-NK	2025/06/02	25.1°C / 48%	Leon Huang
RF Conducted	RFCON01-NK	2025/07/08	25.7°C / 55%	Leon Huang
RF Conducted	RFCON01-NK	2025/07/23	25.3°C / 48%	Leon Huang
Radiated Emissions	3M03-NK	2025/05/12	22.6°C / 59%	Leon Huang
Radiated Emissions	3M03-NK	2025/06/11	21.3°C / 64%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/05/20	23°C / 58%	Park Chen

ANT A + C

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/05/18	25.2°C / 48%	Leon Huang
RF Conducted	RFCON01-NK	2025/05/19	26.1°C / 45%	Leon Huang
RF Conducted	RFCON01-NK	2025/06/02	25.1°C / 48%	Leon Huang
RF Conducted	RFCON01-NK	2025/07/08	25.7°C / 55%	Leon Huang
RF Conducted	RFCON01-NK	2025/07/23	25.3°C / 48%	Leon Huang
Radiated Emissions	3M03-NK	2025/05/12	22.6°C / 59%	Leon Huang
Radiated Emissions	3M03-NK	2025/06/11	21.3°C / 64%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2025/05/20	23°C / 58%	Park Chen



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(150K~30MHz)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±5.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±7.6%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions(Above 1G)				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A020514-1	2024/07/09	2025/07/08
Active Loop Antenna	Schwarzbeck	FMZB 1513	00414	2025/02/18	2026/02/17
Horn Antenna	EMCO	3116	31974	2024/10/18	2025/10/17
Double Ridged Guide Horn Antenna	RF SPAN	DRH18-E	210309A18-ES	2024/08/28	2025/08/27
Spectrum Analyzer	R&S	FSV 40-N	102151	2024/08/22	2025/08/21
EMI Receiver	R&S	ESCI	101423	2024/07/16	2025/07/15
Preamplifier	EMC INSTRUMENTS	EMC0518A45SE	981069	2024/12/17	2025/12/16
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2024/10/15	2025/10/14
Preamplifier	EM Electronics corp.	EM330	60820	2024/06/14	2025/06/13
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
Cable-8m (10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2024/10/14	2025/10/13
Cable-3m (10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2024/10/14	2025/10/13
Cable-1m (10M-40G)	HUBER SUHNER	SF102	804398/2	2024/10/14	2025/10/13
Cable-1m (1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2024/10/14	2025/10/13
Cable-4m (30M-1G)	HUBER SUHNER	RG-214	02953M	2024/09/04	2025/09/03
Cable-1m (30M-1G)	HUBER SUHNER	RG-214	05094M	2024/09/04	2025/09/03
Cable-9m (30M-1G)	HUBER SUHNER	RG-214	00402M	2024/09/04	2025/09/03
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA
High Pass Filter	Warison	WFIL-H3000-18000F-03	WRJ5CFWC2J1	2024/07/03	2025/07/02
Highpass Filter	WOKEN	WFIL-H7000-18000F-01	WR377WC2B2	2024/10/15	2025/10/14



Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	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	R&S	ESCI	101423	2024/07/16	2025/07/15
Two-Line V-Network	R&S	ENV216	102185	2024/08/27	2025/08/26
LISN	Schwarzbeck	NSLK 8127	8127740	2024/08/27	2025/08/26
Cable-4m (9k-3G)	EMEC	RG-223	18274M	2024/08/08	2025/08/07
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 15.247 (b), 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	ANT A: PIFA Antenna ANT B: PIFA Antenna ANT C: Monopole Antenna
Antenna Gain	ANT A: 3.0dBi ANT B: 3.0dBi ANT C: 4.0dBi

ANT A + B:

For Power directional gain= $G_{ant} = 3.00$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 6.01 dBi

*MIMO type: Cyclic Delay Diversity (CDD) mode.

ANT A + C:

For Power directional gain= $G_{ant} = 4.00$ dBi

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$
= 6.52 dBi

*MIMO type: Cyclic Delay Diversity (CDD) mode.



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. 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

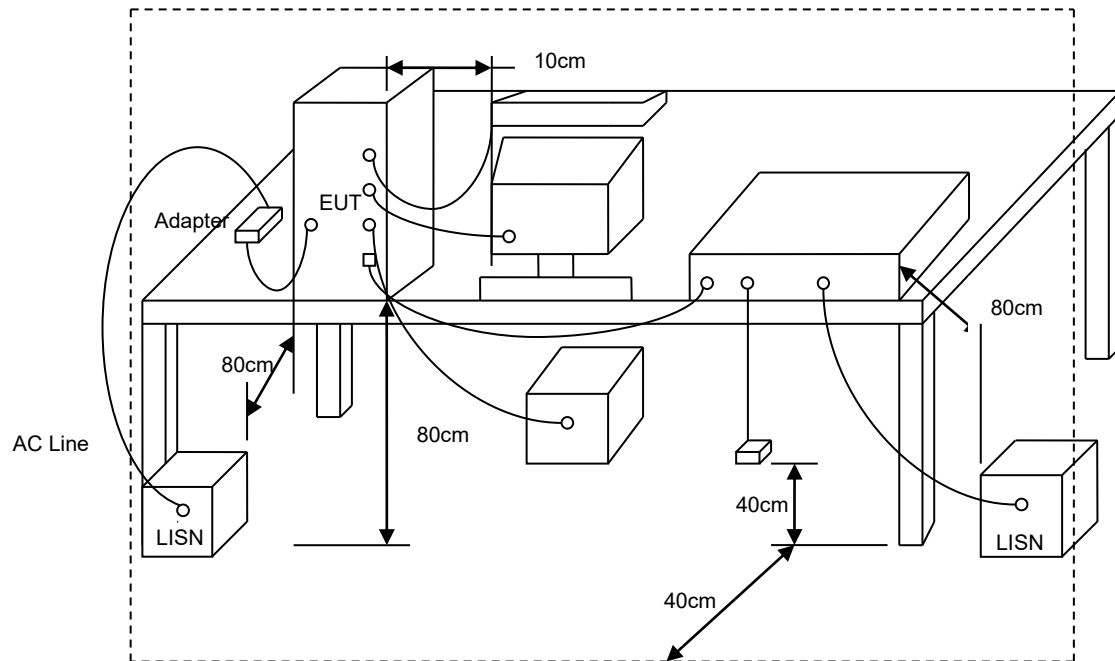
*Decreases with the logarithm of the frequency.

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.

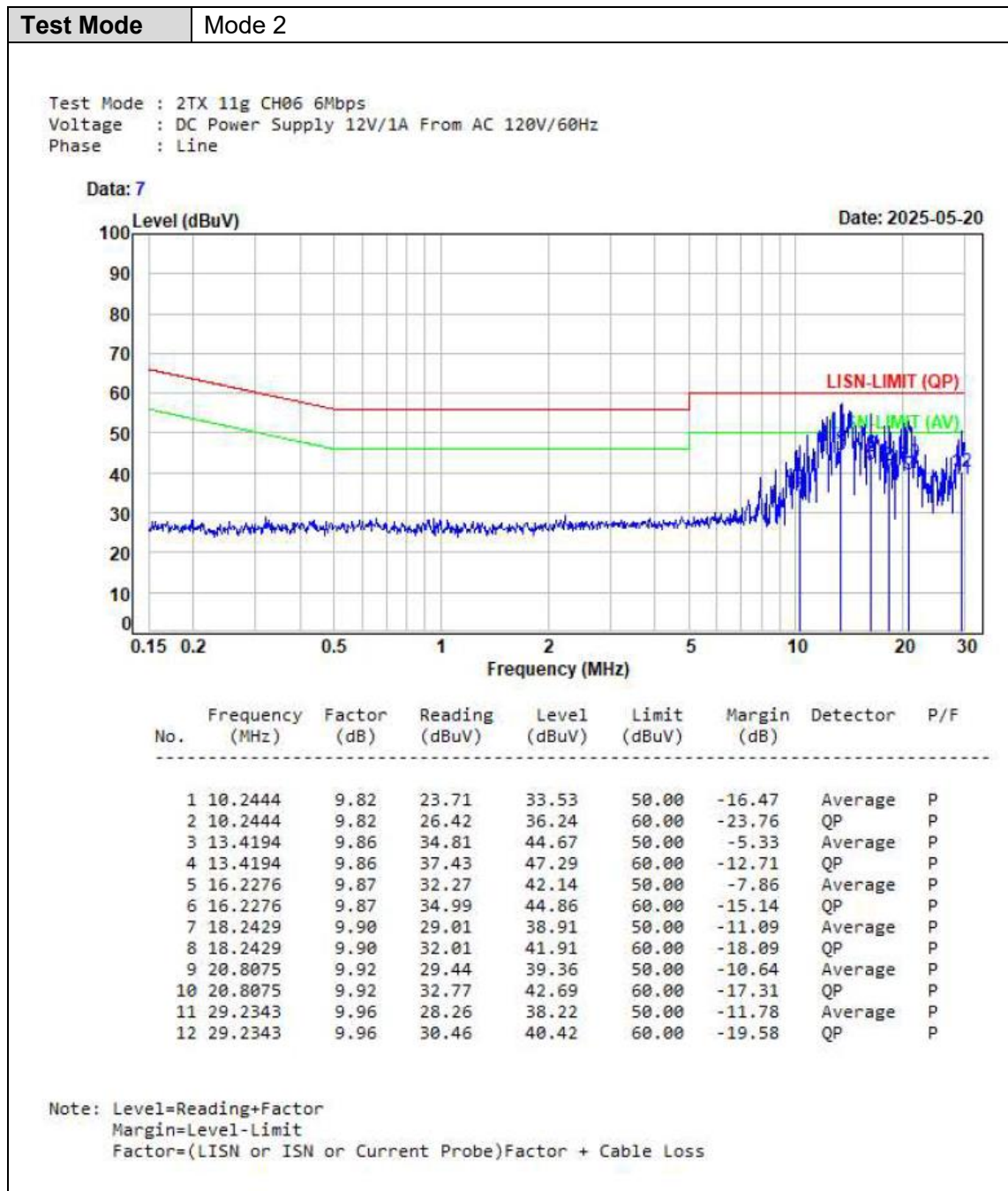


5.3 Typical Test Setup





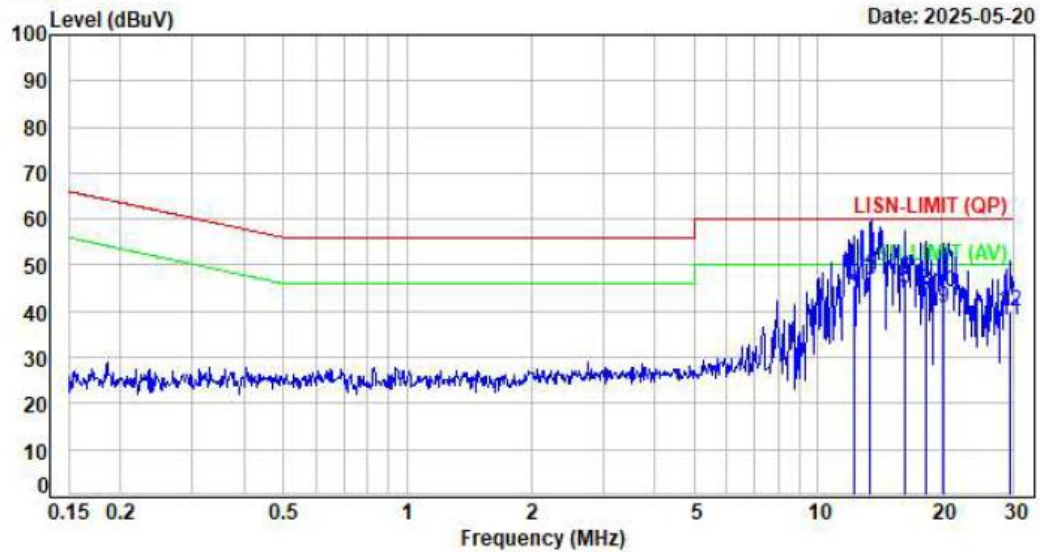
5.4 Test Result and Data



**Test Mode** Mode 2

Test Mode : 2TX 11g CH06 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Phase : Neutral

Data: 8

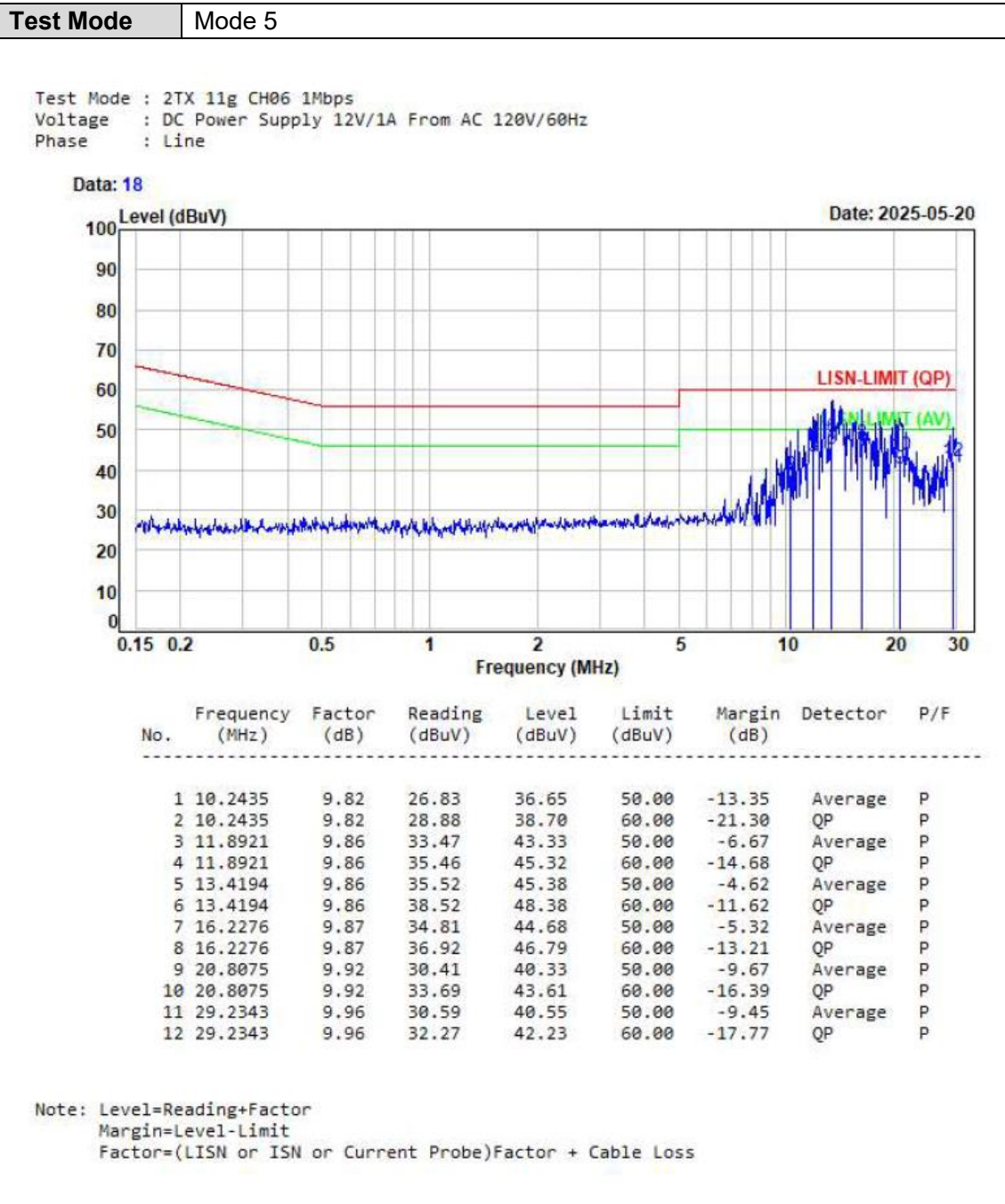


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	12.1980	9.88	33.61	43.49	50.00	-6.51	Average	P
2	12.1980	9.88	35.67	45.55	60.00	-14.45	QP	P
3	13.4194	9.89	36.77	46.66	50.00	-3.34	Average	P
4	13.4194	9.89	38.84	48.73	60.00	-11.27	QP	P
5	16.2276	9.93	34.86	44.79	50.00	-5.21	Average	P
6	16.2276	9.93	37.05	46.98	60.00	-13.02	QP	P
7	18.2427	9.97	31.86	41.83	50.00	-8.17	Average	P
8	18.2427	9.97	34.37	44.34	60.00	-15.66	QP	P
9	20.2580	9.99	30.73	40.72	50.00	-9.28	Average	P
10	20.2580	9.99	33.94	43.93	60.00	-16.07	QP	P
11	29.2343	10.11	27.93	38.04	50.00	-11.96	Average	P
12	29.2343	10.11	29.66	39.77	60.00	-20.23	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

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

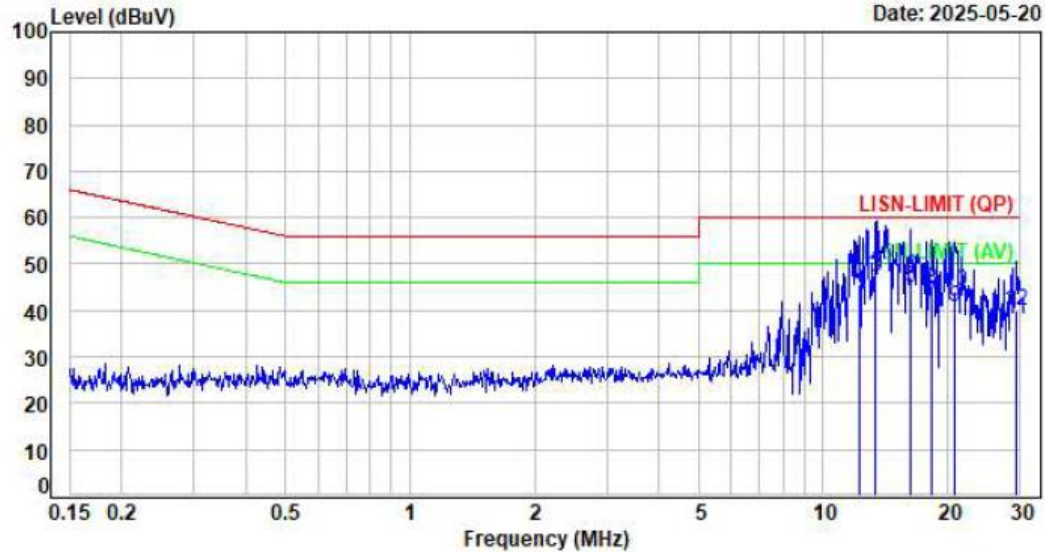


**Test Mode** Mode 5

Test Mode : 2TX 11g CH06 1Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Phase : Neutral

Data: 19

Date: 2025-05-20



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	12.1980	9.88	33.75	43.63	50.00	-6.37	Average	P
2	12.1980	9.88	35.78	45.66	60.00	-14.34	QP	P
3	13.4186	9.89	37.07	46.96	50.00	-3.04	Average	P
4	13.4186	9.89	39.08	48.97	60.00	-11.03	QP	P
5	16.2276	9.93	35.00	44.93	50.00	-5.07	Average	P
6	16.2276	9.93	37.16	47.09	60.00	-12.91	QP	P
7	18.2427	9.97	31.97	41.94	50.00	-8.06	Average	P
8	18.2427	9.97	34.45	44.42	60.00	-15.58	QP	P
9	20.8075	10.01	30.80	40.81	50.00	-9.19	Average	P
10	20.8075	10.01	34.07	44.08	60.00	-15.92	QP	P
11	29.2343	10.11	28.01	38.12	50.00	-11.88	Average	P
12	29.2343	10.11	29.74	39.85	60.00	-20.15	QP	P

Note: Level=Reading+Factor

Margin=Level-Limit

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



6. Test of Radiated Spurious Emission

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



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.

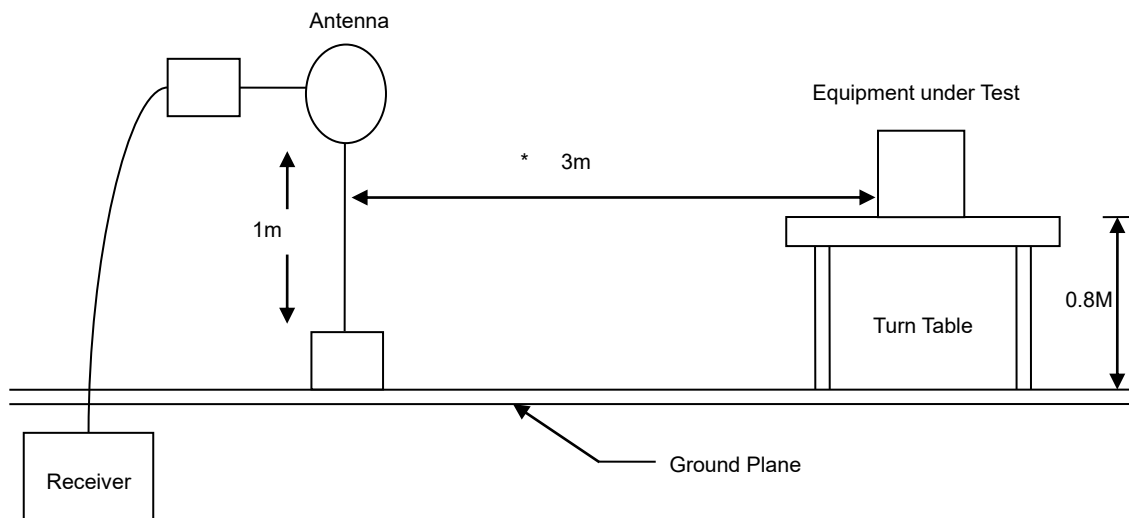
Note:

- 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.
(For ANT A + B: X-AXIS is the worst; For ANT A + C: Z-AXIS is the worst)
- 2.Due to the test software function limit the operation band setting(200dBuV/m).
There's no corresponding limitation in the actual test item.

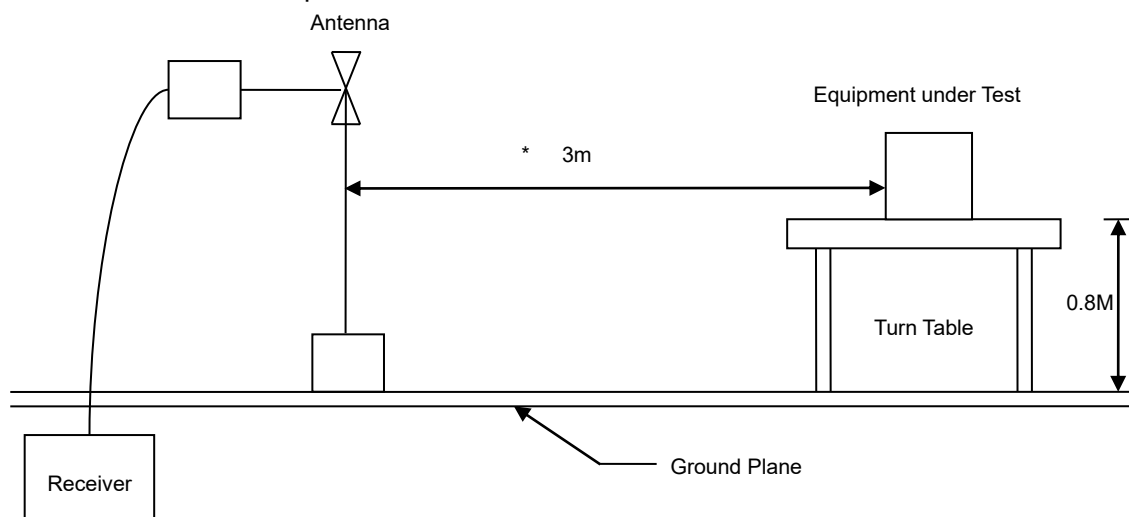


6.3 Typical Test Setup

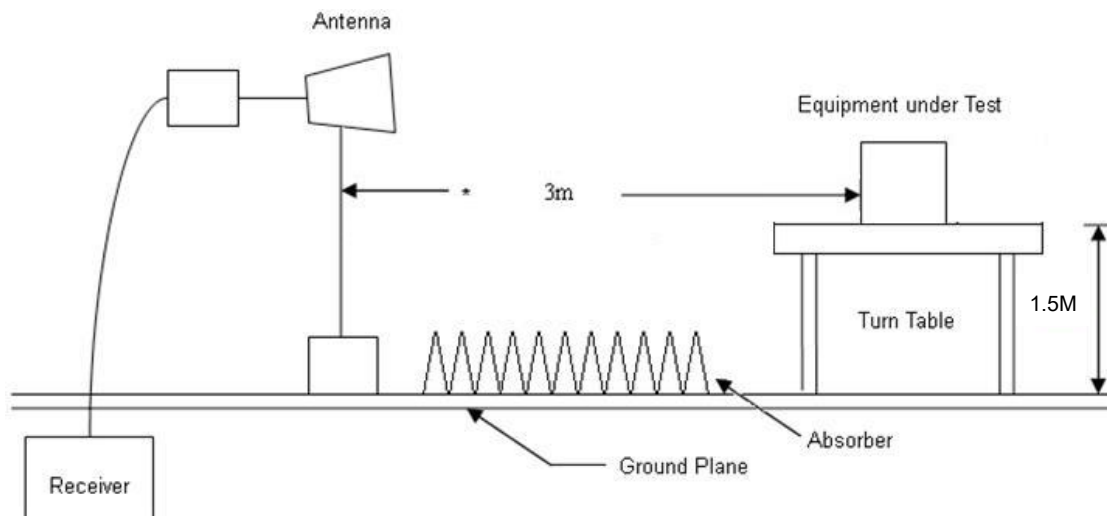
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

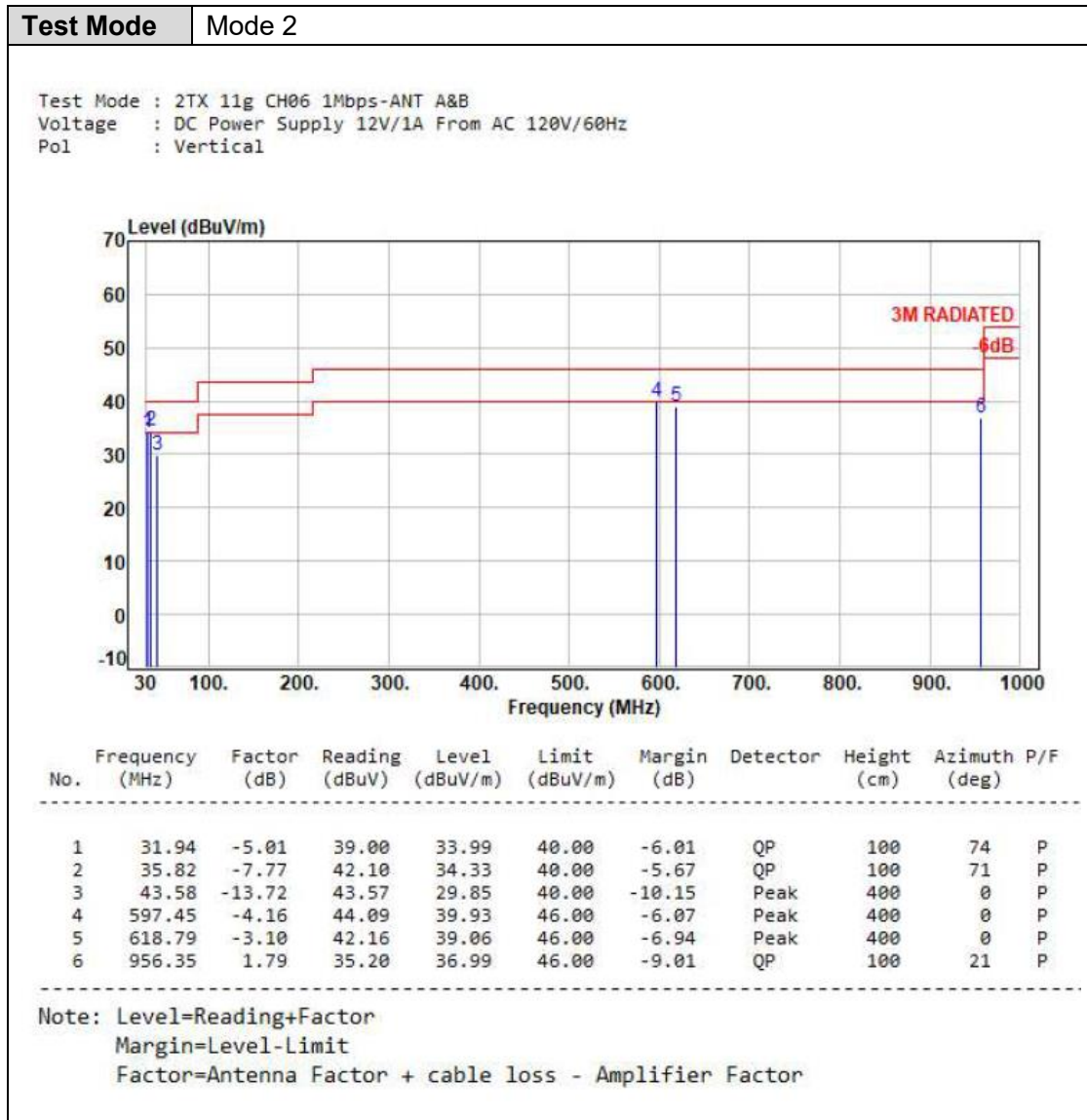


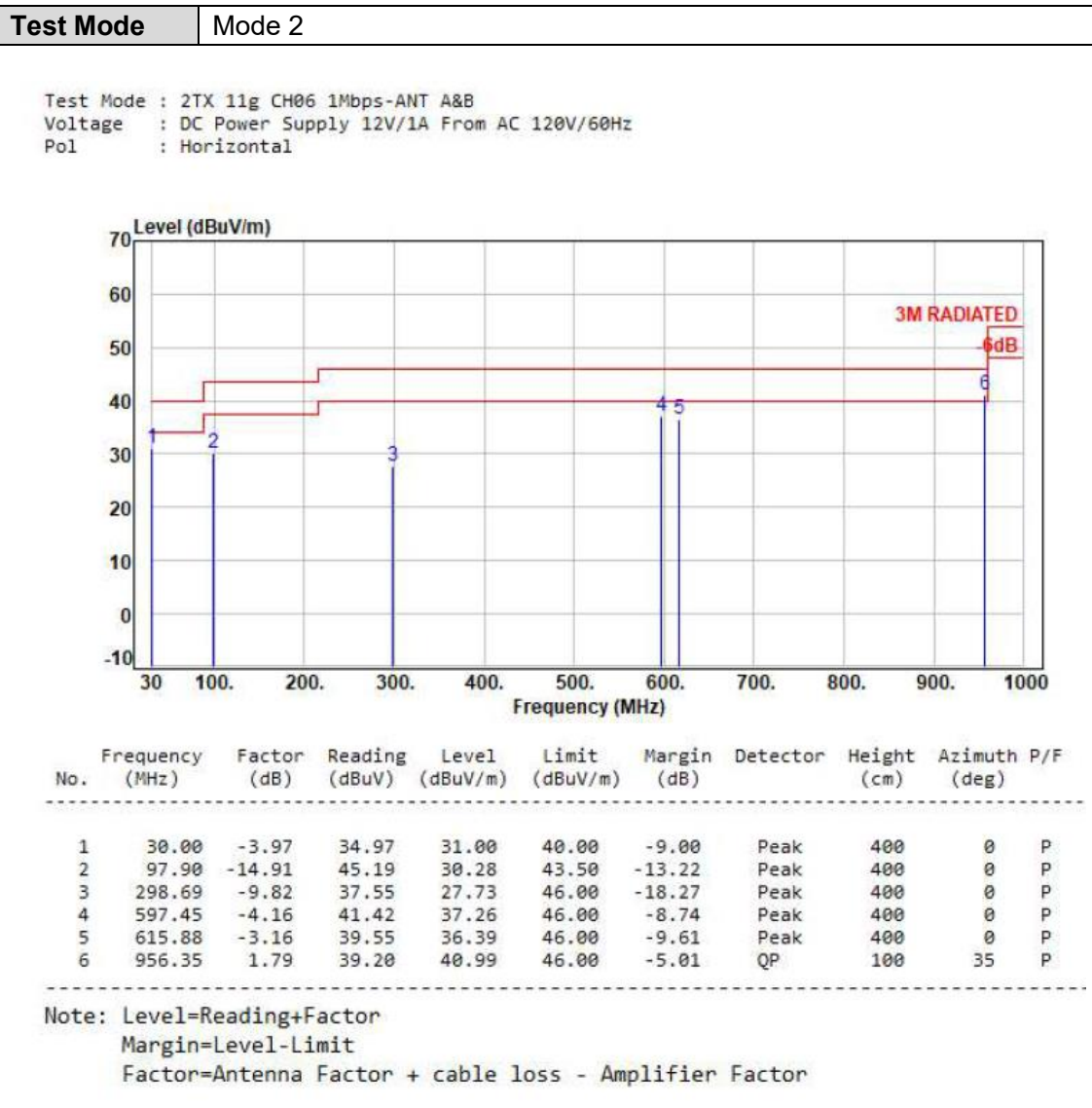


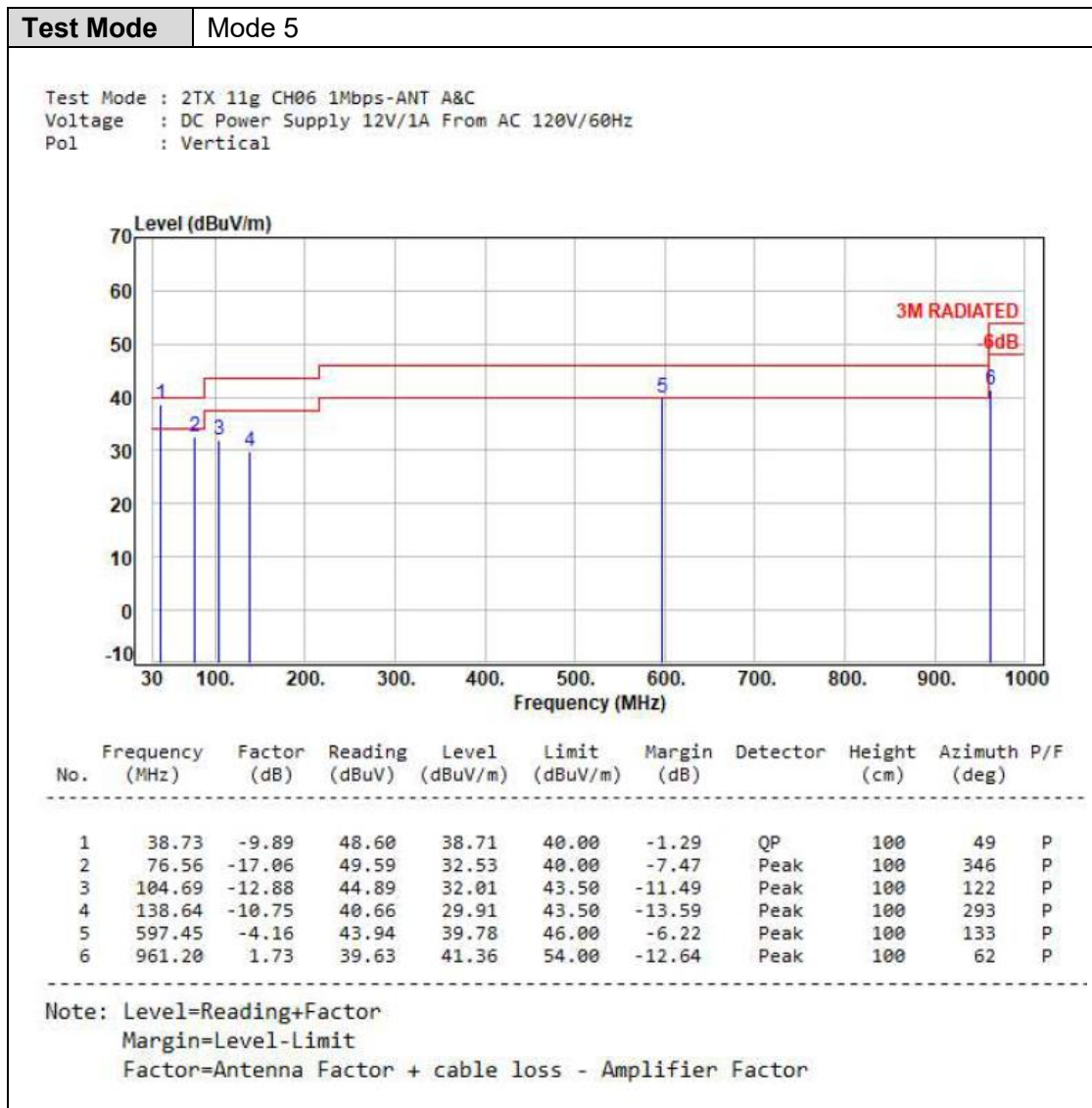
6.4 Test Result and Data (9KHz ~ 30MHz)

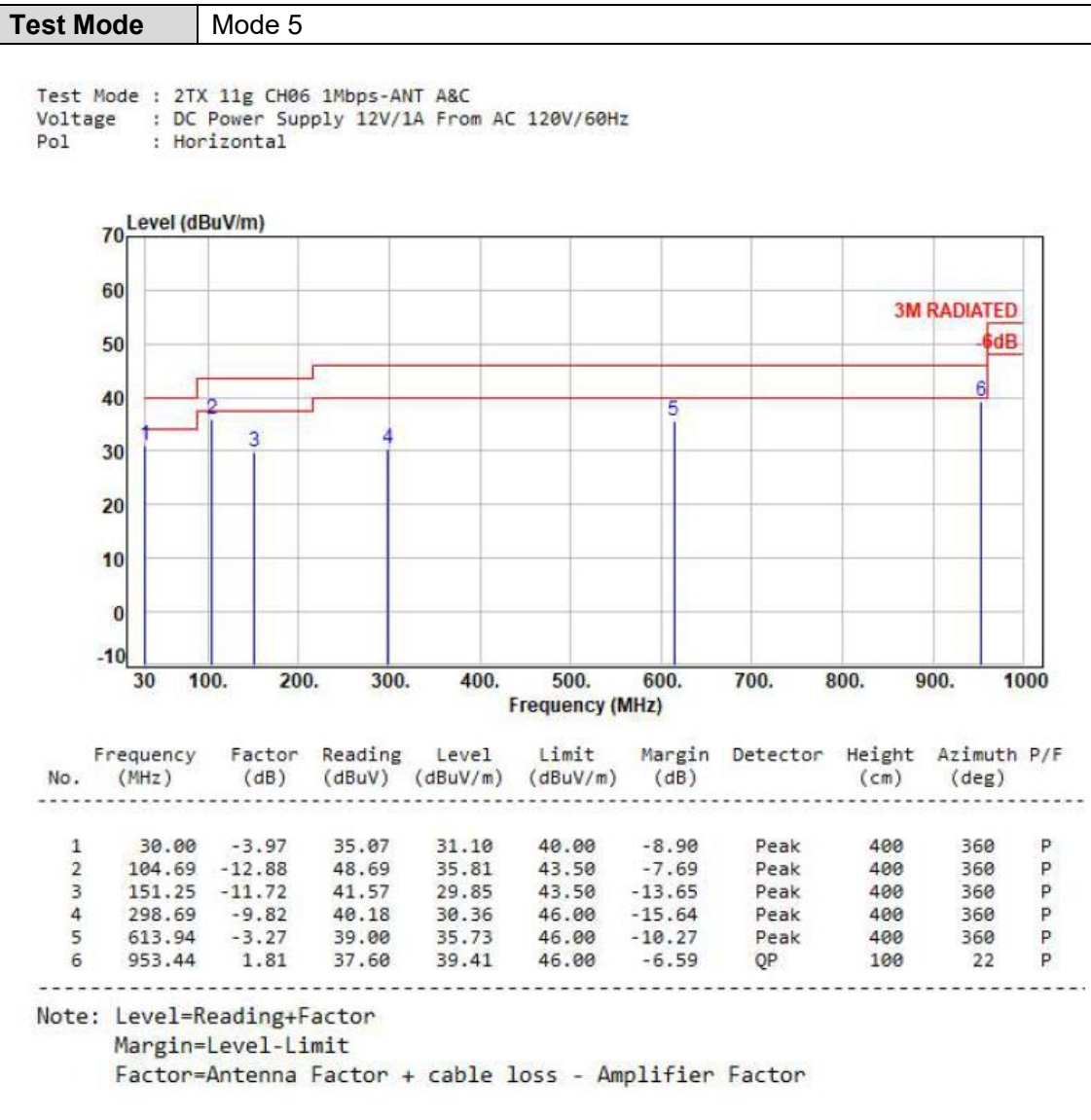
The 9kHz - 30MHz spurious emission is under limit 20dB more.

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



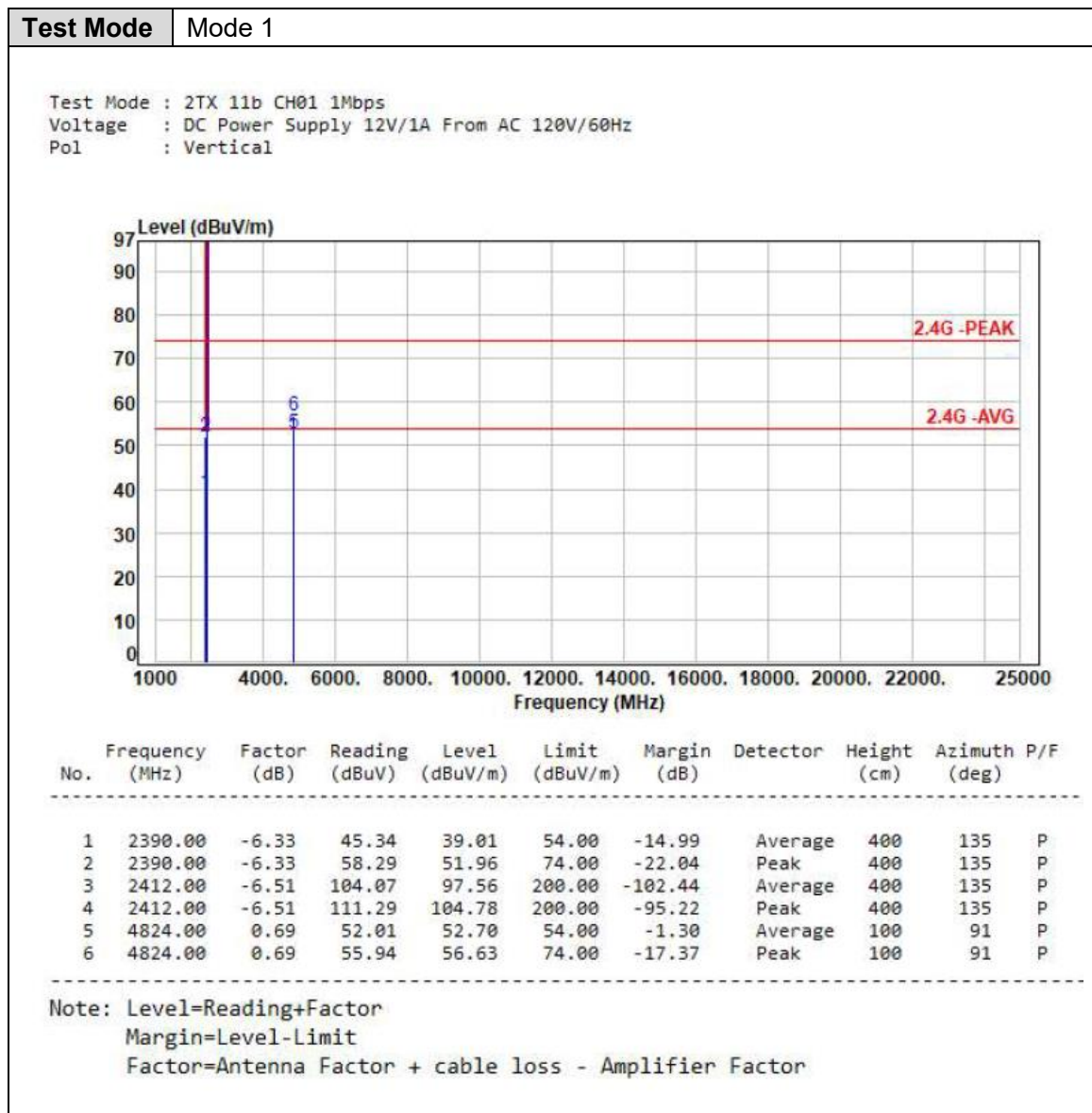


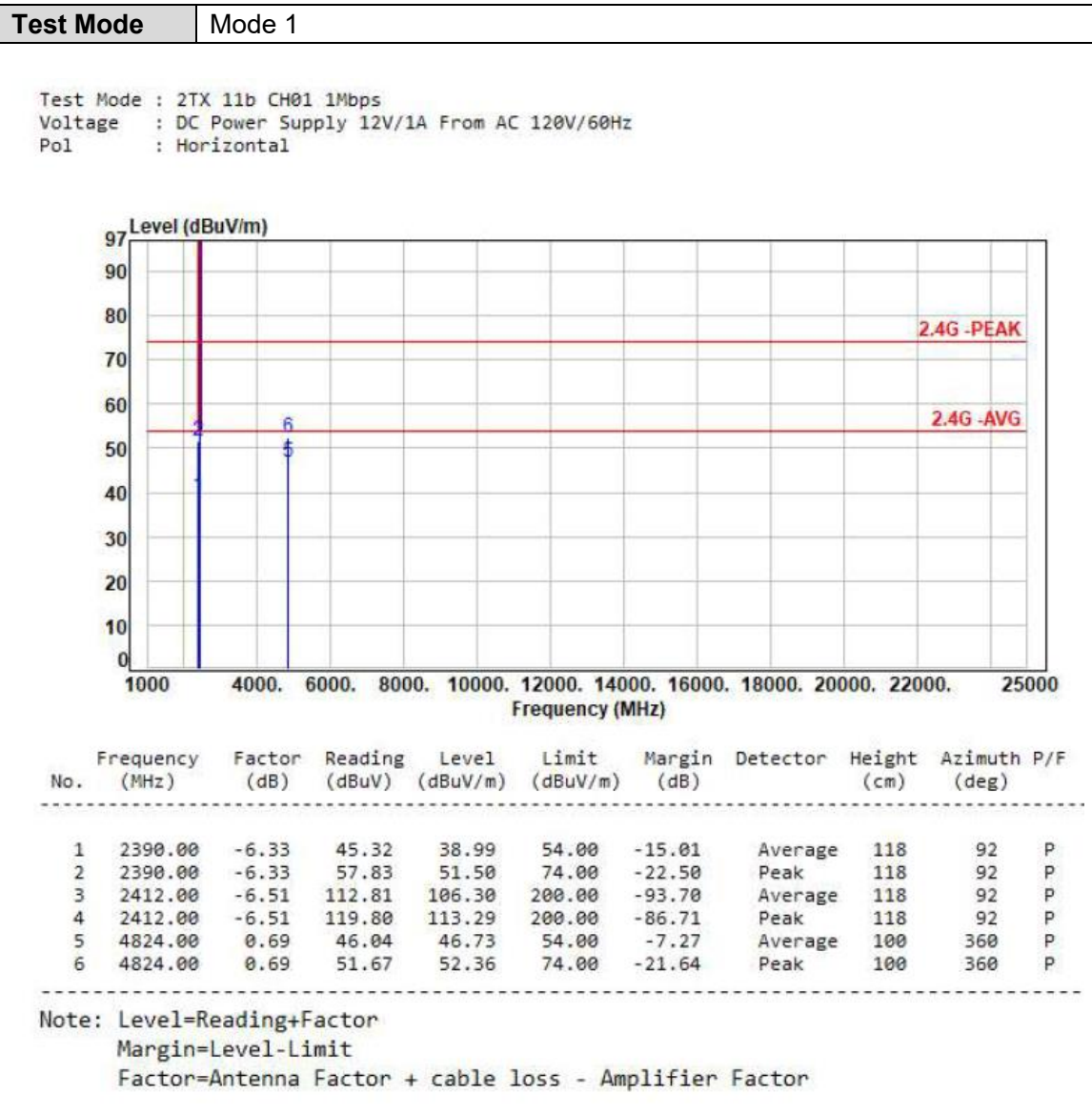


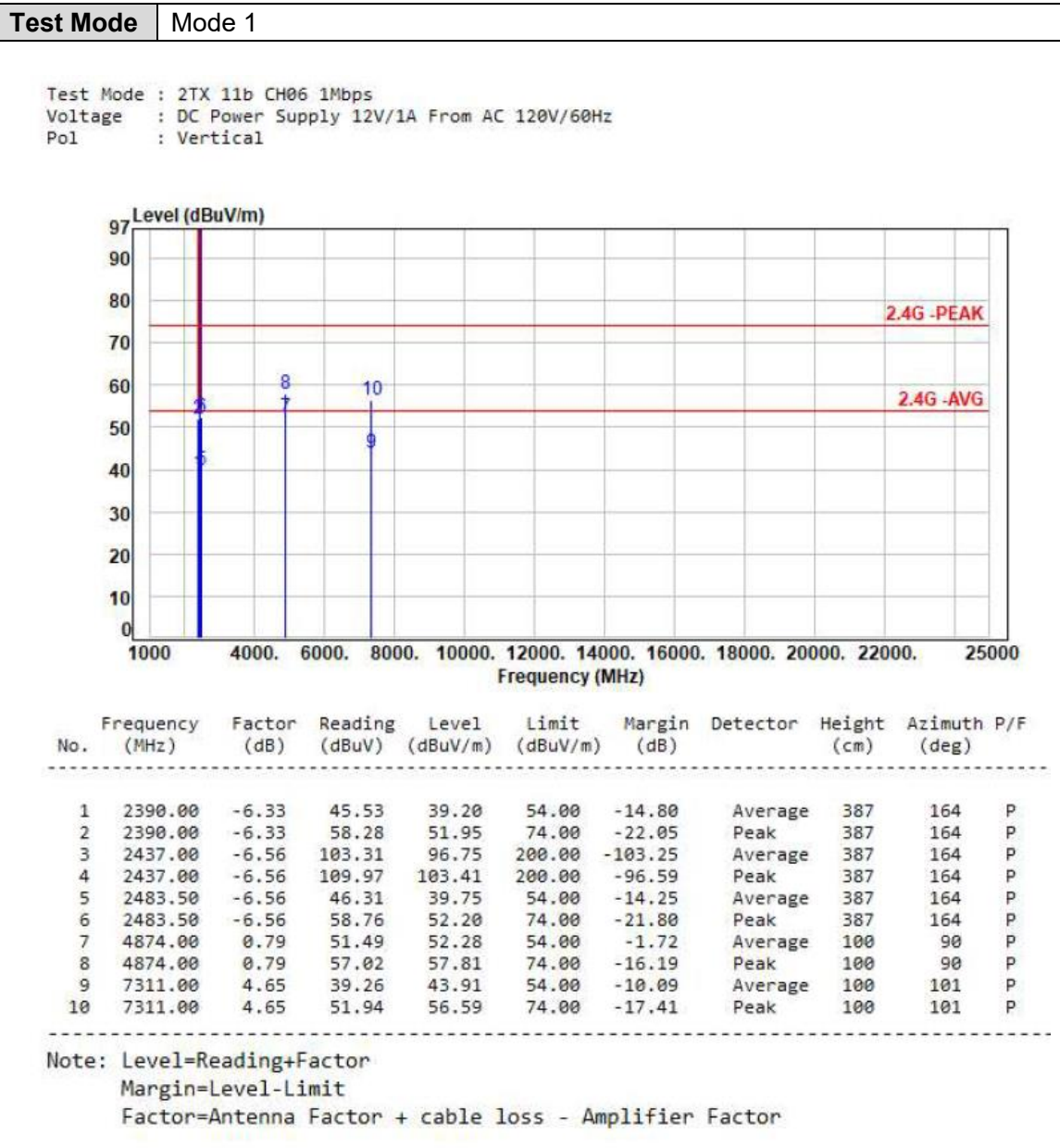


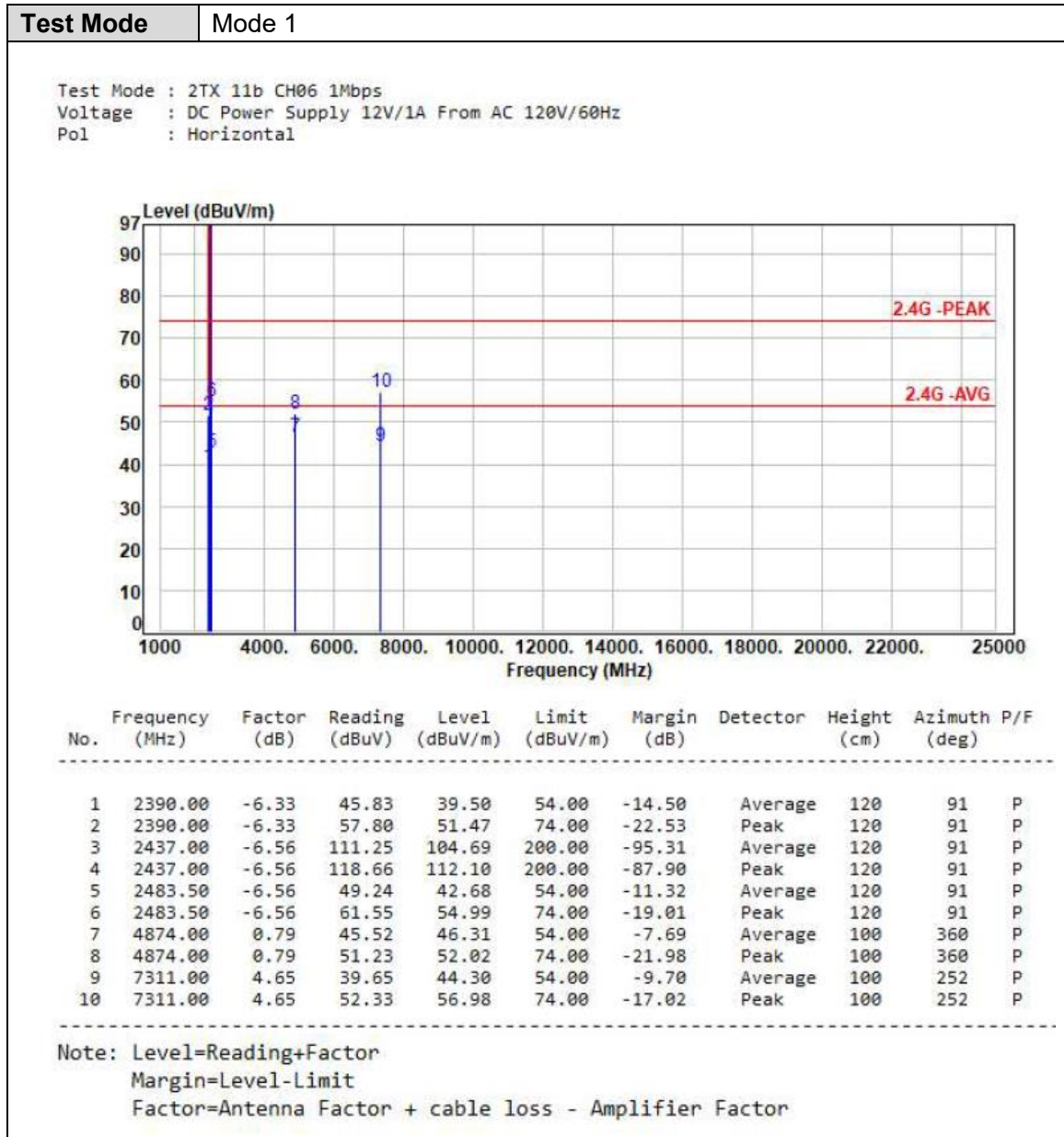


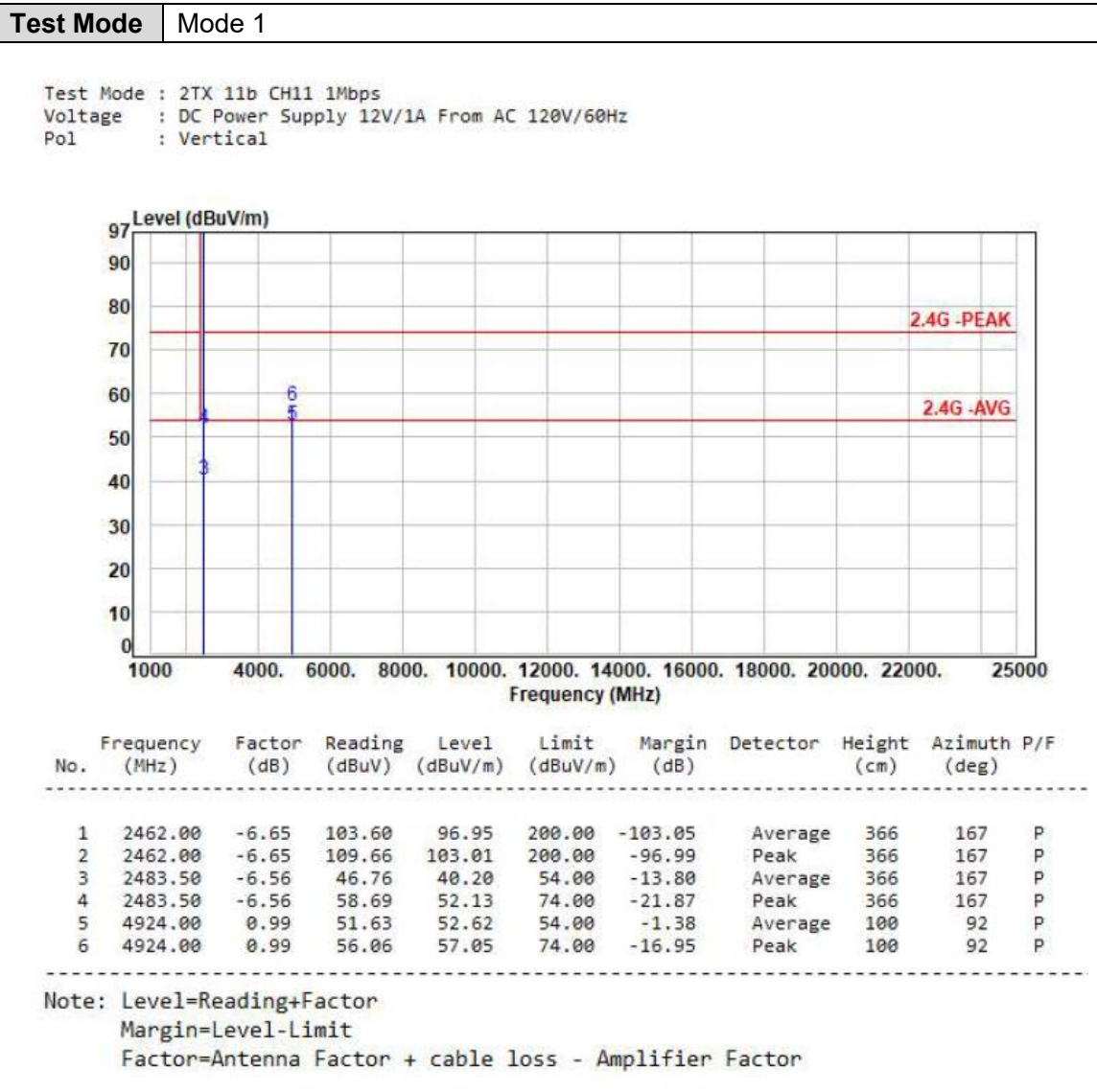
6.6 Test Result and Data (1GHz ~ 25GHz)

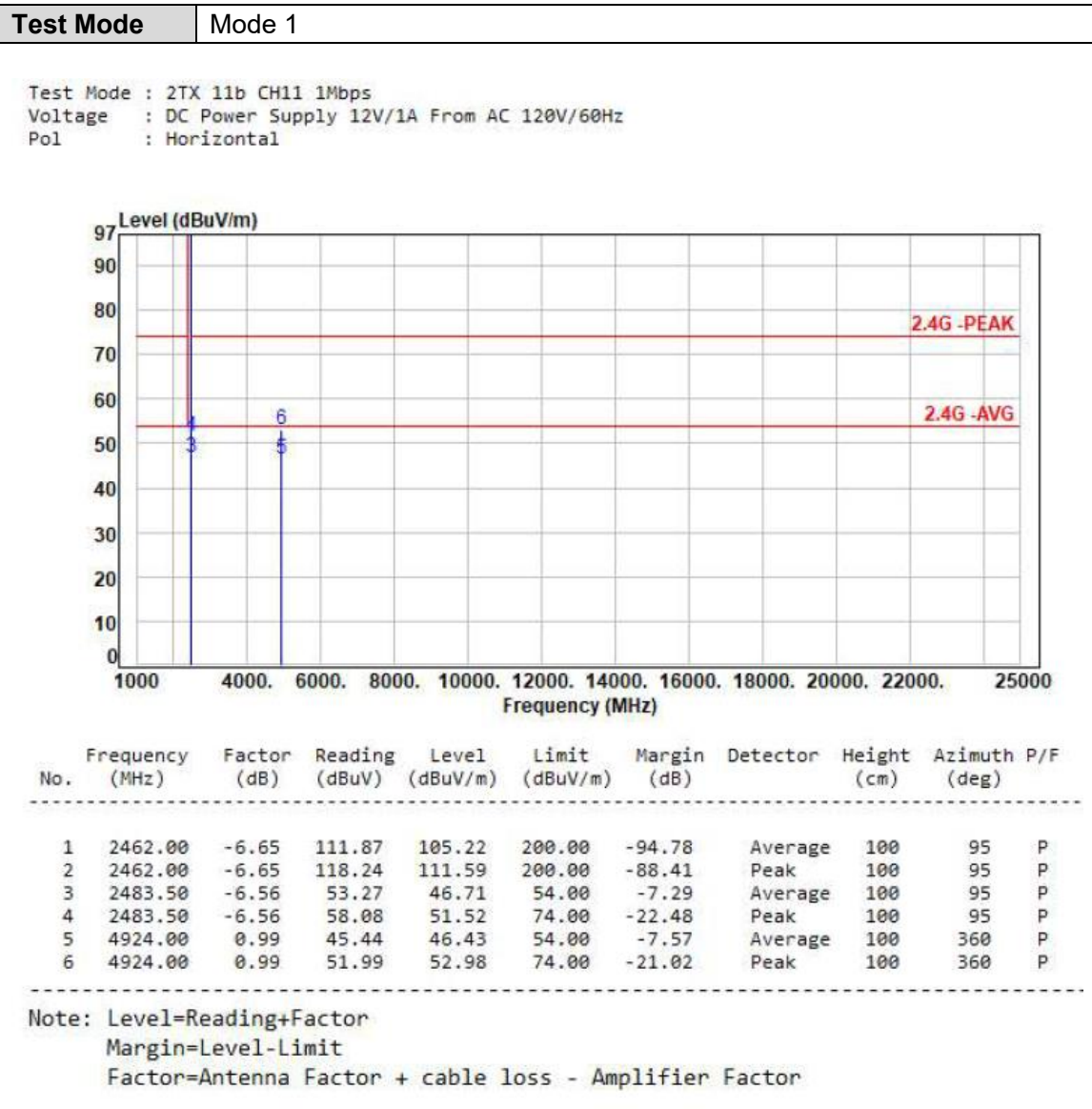


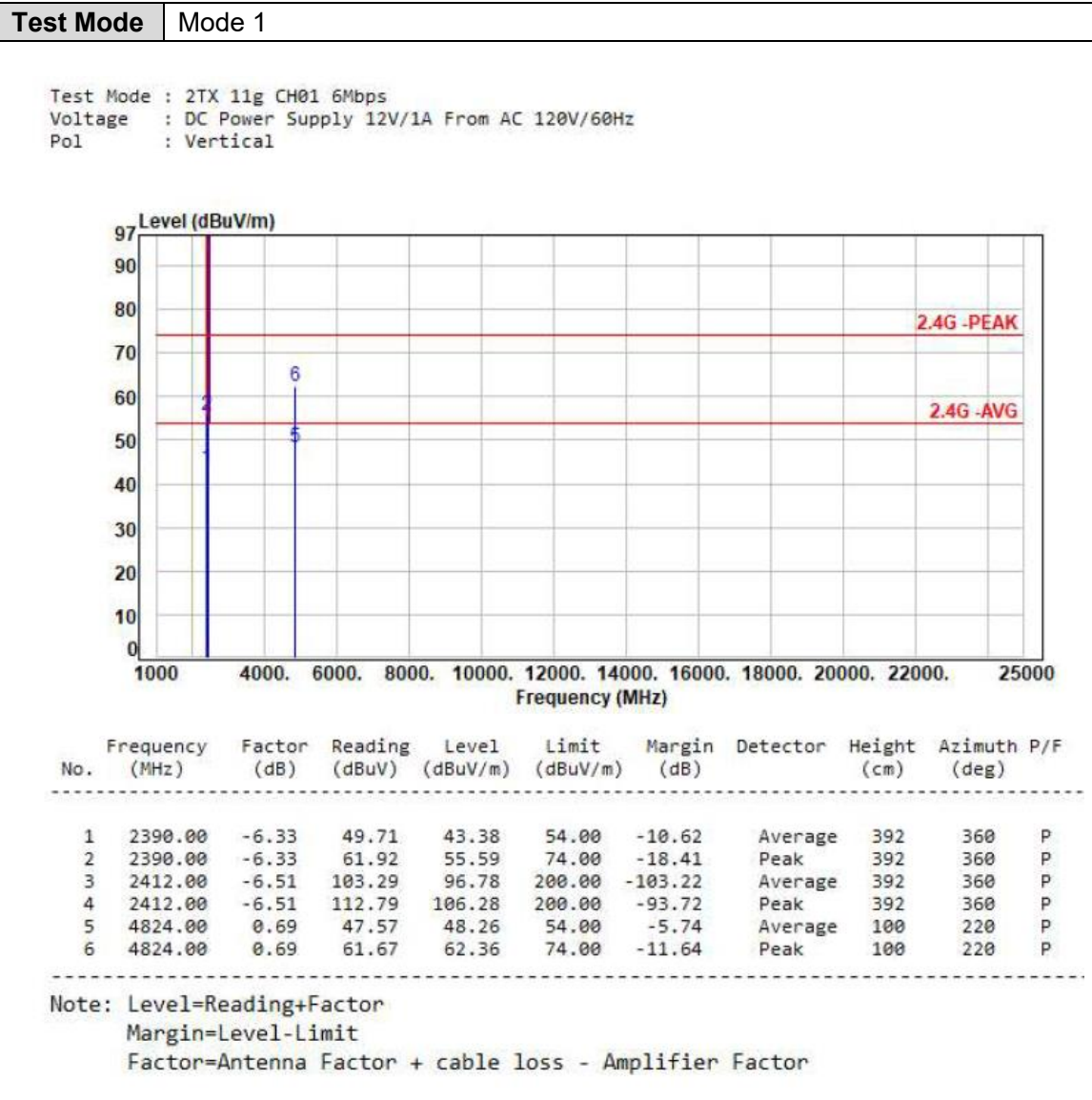


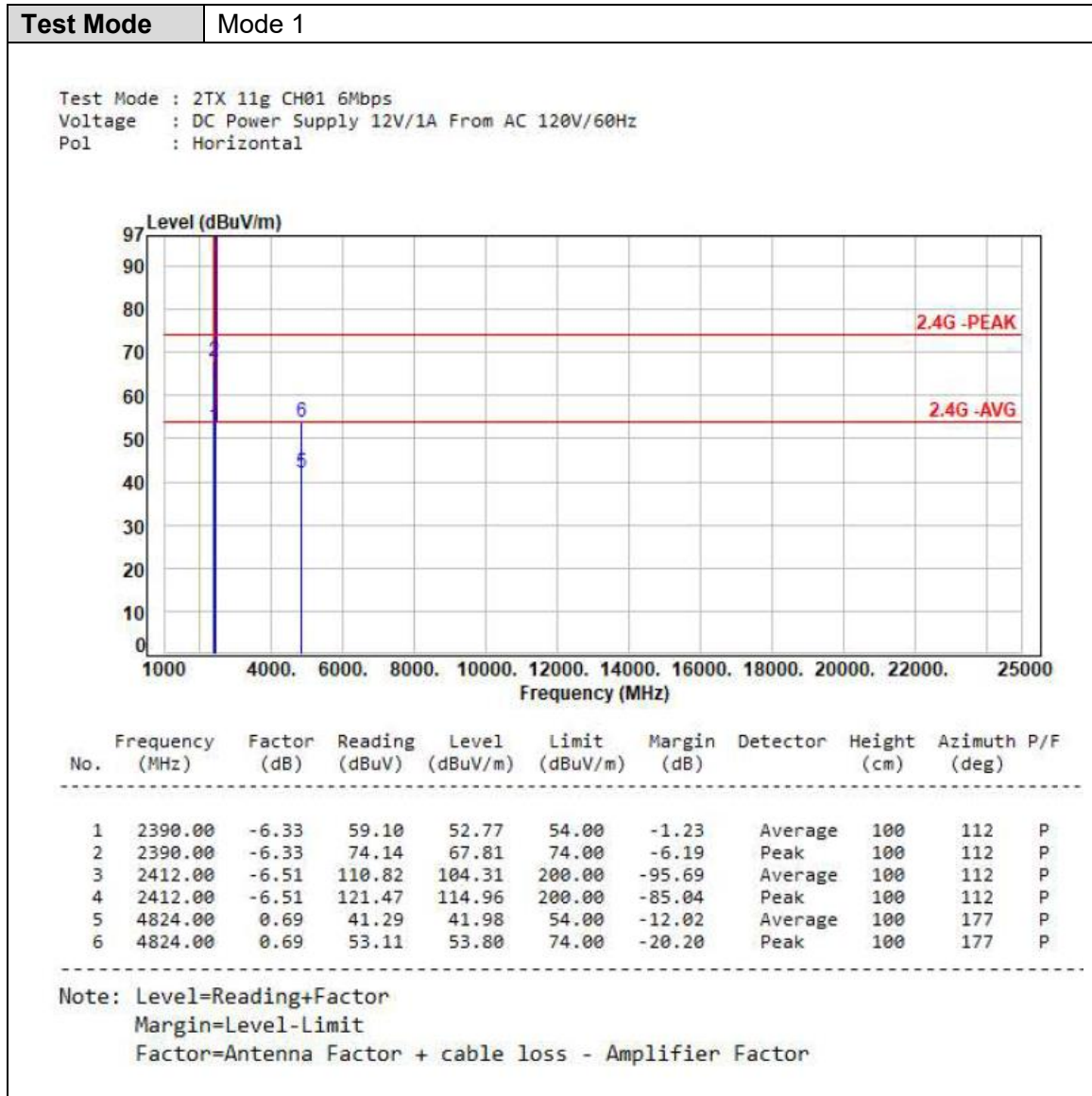






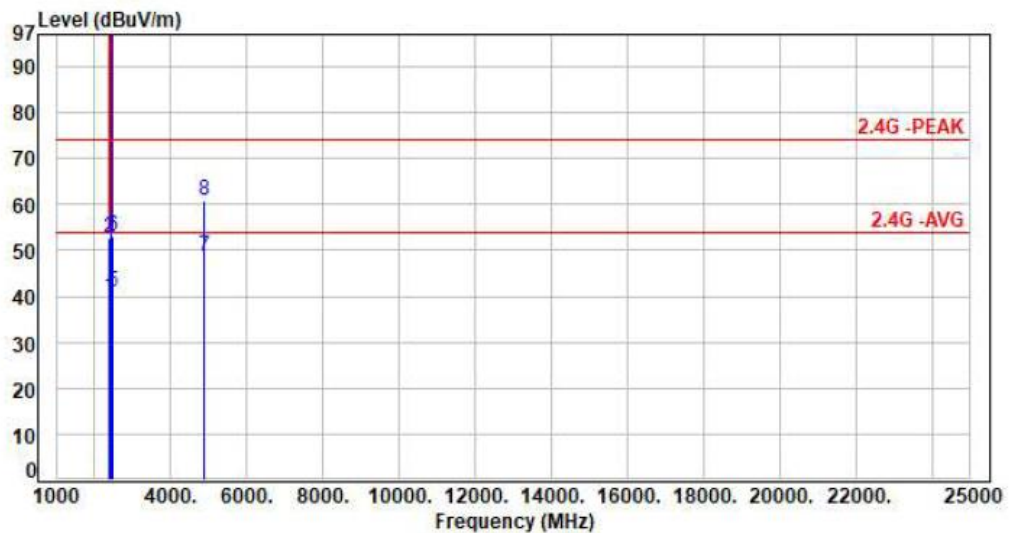






**Test Mode** Mode 1

Test Mode : 2TX 11g CH06 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	46.34	40.01	54.00	-13.99	Average	100	360	P
2	2390.00	-6.33	59.10	52.77	74.00	-21.23	Peak	100	360	P
3	2437.00	-6.56	103.64	97.08	200.00	-102.92	Average	100	360	P
4	2437.00	-6.56	113.50	106.94	200.00	-93.06	Peak	100	360	P
5	2483.50	-6.56	47.56	41.00	54.00	-13.00	Average	100	360	P
6	2483.50	-6.56	59.78	53.22	74.00	-20.78	Peak	100	360	P
7	4874.00	0.79	48.00	48.79	54.00	-5.21	Average	100	221	P
8	4874.00	0.79	60.22	61.01	74.00	-12.99	Peak	100	221	P

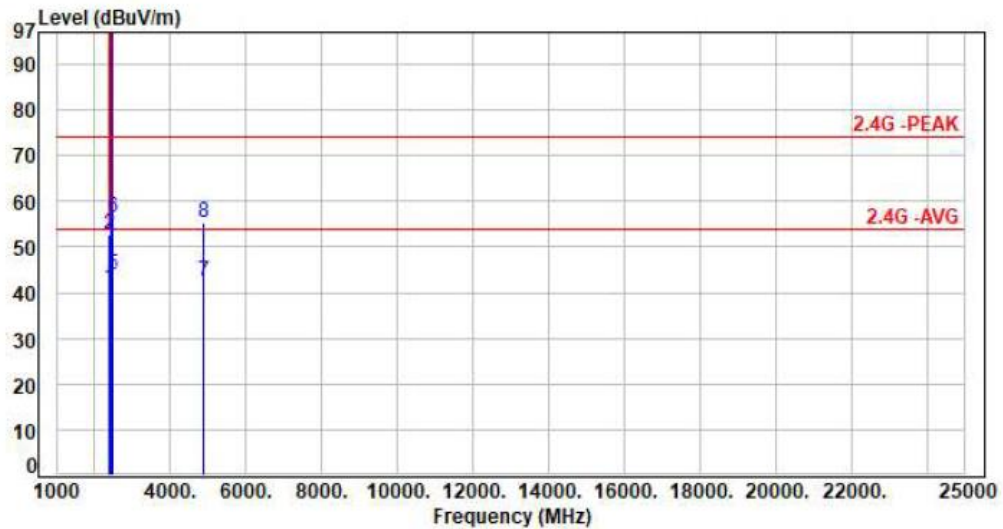
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

**Test Mode** Mode 1

Test Mode : 2TX 11g CH06 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Horizontal

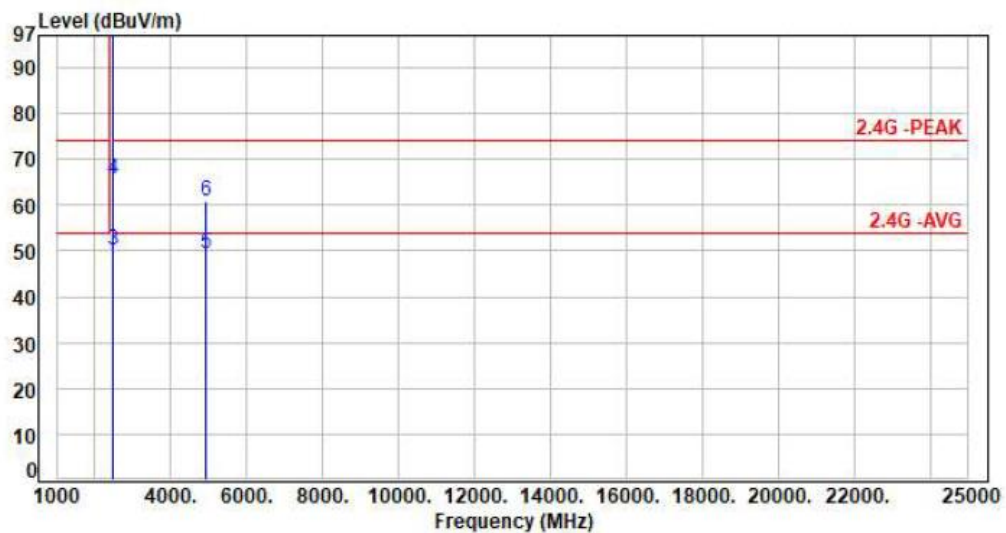


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	47.19	40.86	54.00	-13.14	Average	151	89	P
2	2390.00	-6.33	59.06	52.73	74.00	-21.27	Peak	151	89	P
3	2437.00	-6.56	111.07	104.51	200.00	-95.49	Average	151	89	P
4	2437.00	-6.56	120.53	113.97	200.00	-86.03	Peak	151	89	P
5	2483.50	-6.56	50.38	43.82	54.00	-10.18	Average	151	89	P
6	2483.50	-6.56	63.14	56.58	74.00	-17.42	Peak	151	89	P
7	4874.00	0.79	41.53	42.32	54.00	-11.68	Average	100	175	P
8	4874.00	0.79	54.62	55.41	74.00	-18.59	Peak	100	175	P

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

**Test Mode** Mode 1

Test Mode : 2TX 11g CH11 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-6.65	102.76	96.11	200.00	-103.89	Average	131	360	P
2	2462.00	-6.65	112.64	105.99	200.00	-94.01	Peak	131	360	P
3	2483.50	-6.56	56.54	49.98	54.00	-4.02	Average	131	360	P
4	2483.50	-6.56	72.21	65.65	74.00	-8.35	Peak	131	360	P
5	4924.00	0.99	48.25	49.24	54.00	-4.76	Average	100	226	P
6	4924.00	0.99	59.98	60.97	74.00	-13.03	Peak	100	226	P

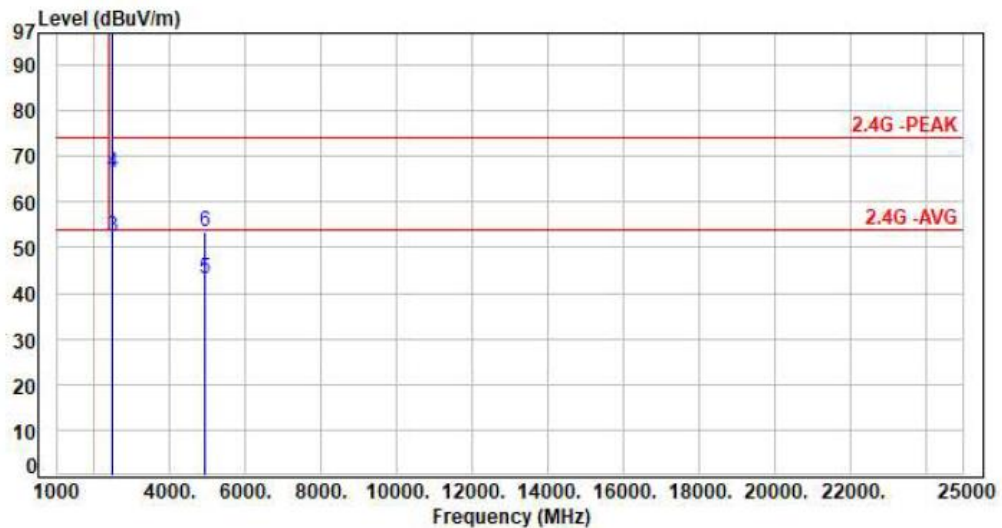
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

**Test Mode** Mode 1

Test Mode : 2TX 11g CH11 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Horizontal

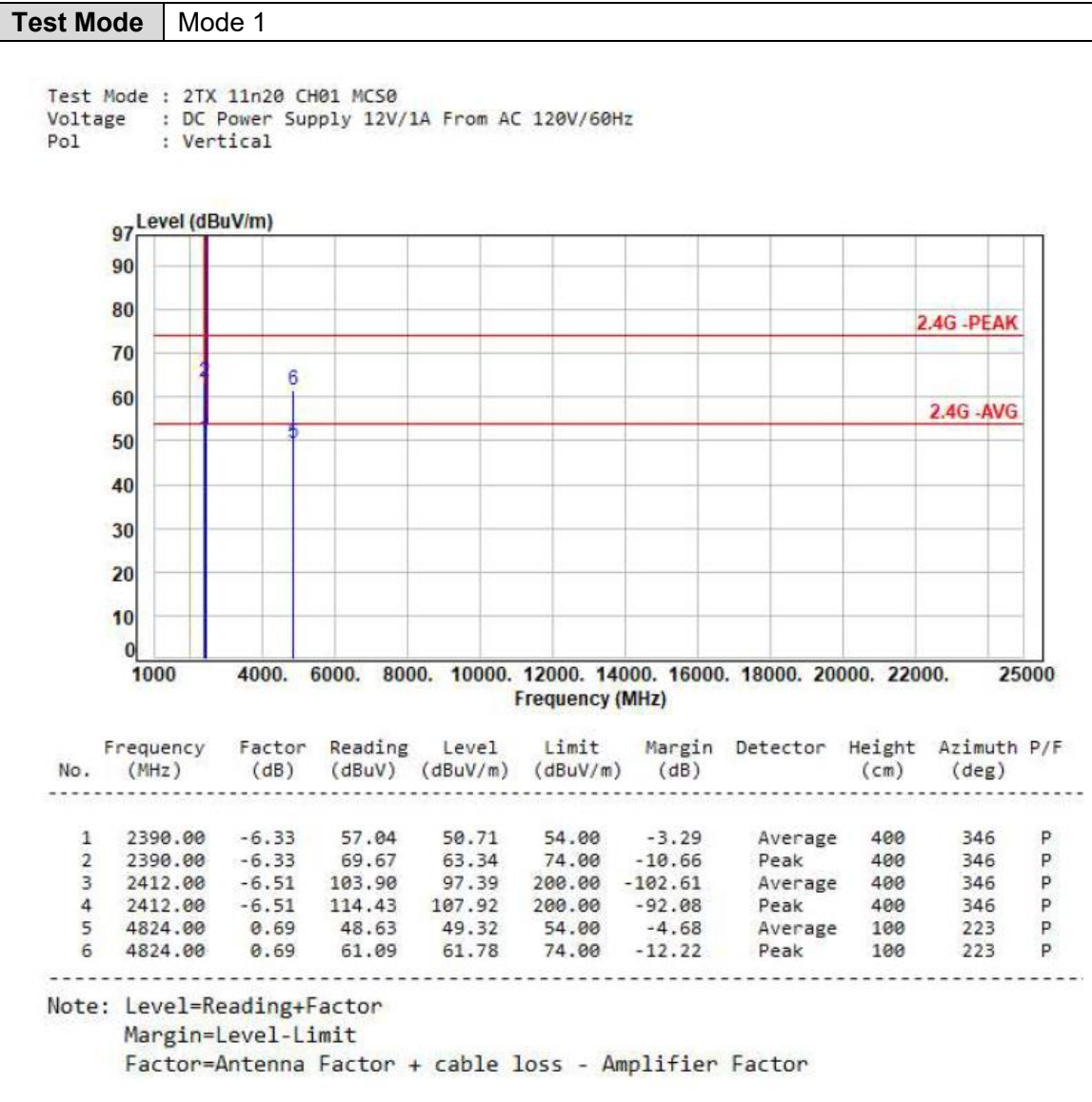


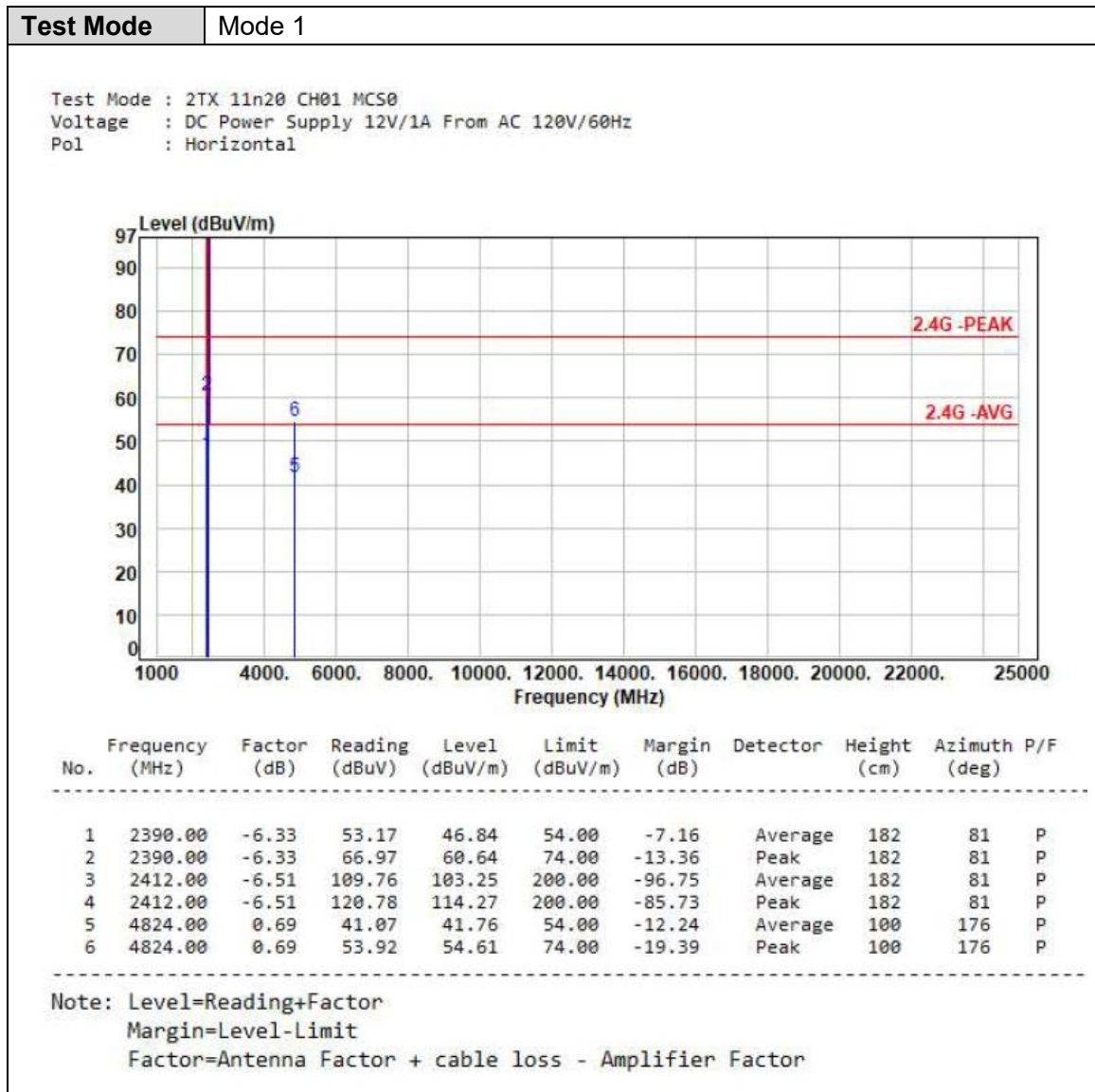
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-6.65	109.51	102.86	200.00	-97.14	Average	100	94	P
2	2462.00	-6.65	119.79	113.14	200.00	-86.86	Peak	100	94	P
3	2483.50	-6.56	58.87	52.31	54.00	-1.69	Average	100	94	P
4	2483.50	-6.56	72.79	66.23	74.00	-7.77	Peak	100	94	P
5	4924.00	0.99	42.31	43.30	54.00	-10.70	Average	100	175	P
6	4924.00	0.99	52.64	53.63	74.00	-20.37	Peak	100	175	P

Note: Level=Reading+Factor

Margin=Level-Limit

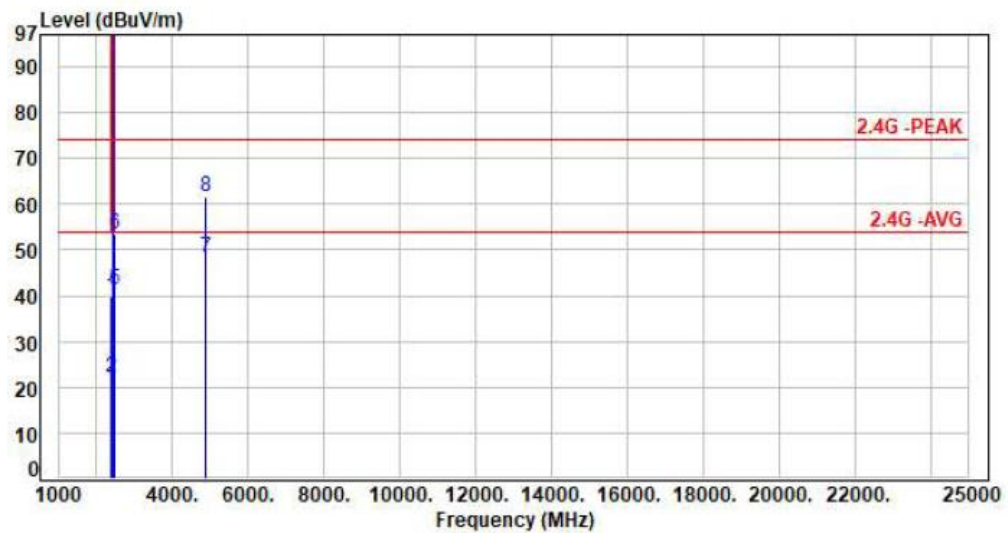
Factor=Antenna Factor + cable loss - Amplifier Factor





**Test Mode** Mode 1

Test Mode : 2TX 11n20 CH06 MCS0
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical

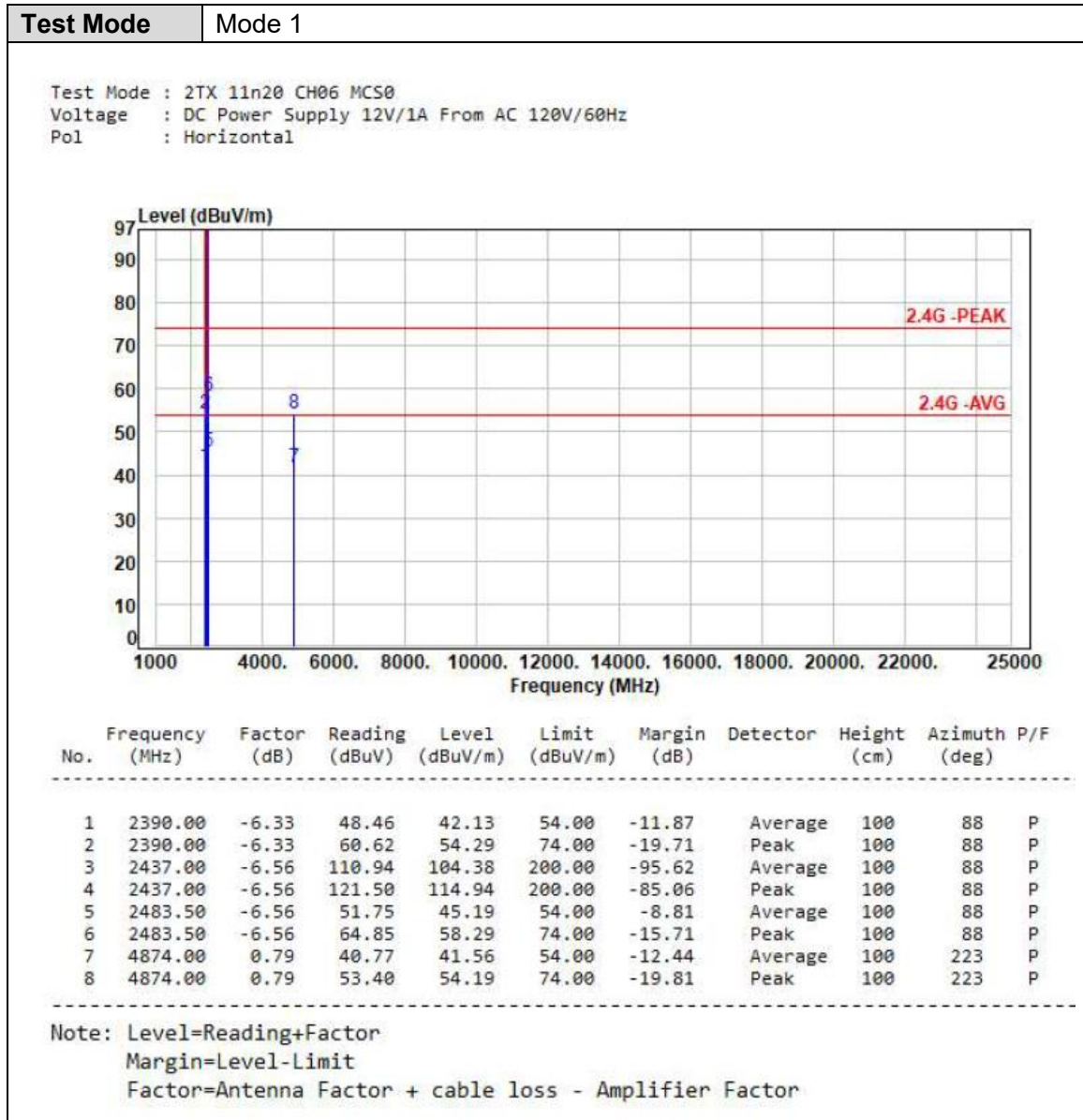


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	46.07	39.74	54.00	-14.26	Average	100	360	P
2	2390.00	-6.33	28.51	22.18	74.00	-51.82	Peak	100	360	P
3	2437.00	-6.56	102.65	96.09	200.00	-103.91	Average	100	360	P
4	2437.00	-6.56	112.82	106.26	200.00	-93.74	Peak	100	360	P
5	2483.50	-6.56	47.82	41.26	54.00	-12.74	Average	100	360	P
6	2483.50	-6.56	59.89	53.33	74.00	-20.67	Peak	100	360	P
7	4874.00	0.79	47.70	48.49	54.00	-5.51	Average	100	224	P
8	4874.00	0.79	60.63	61.42	74.00	-12.58	Peak	100	224	P

Note: Level=Reading+Factor

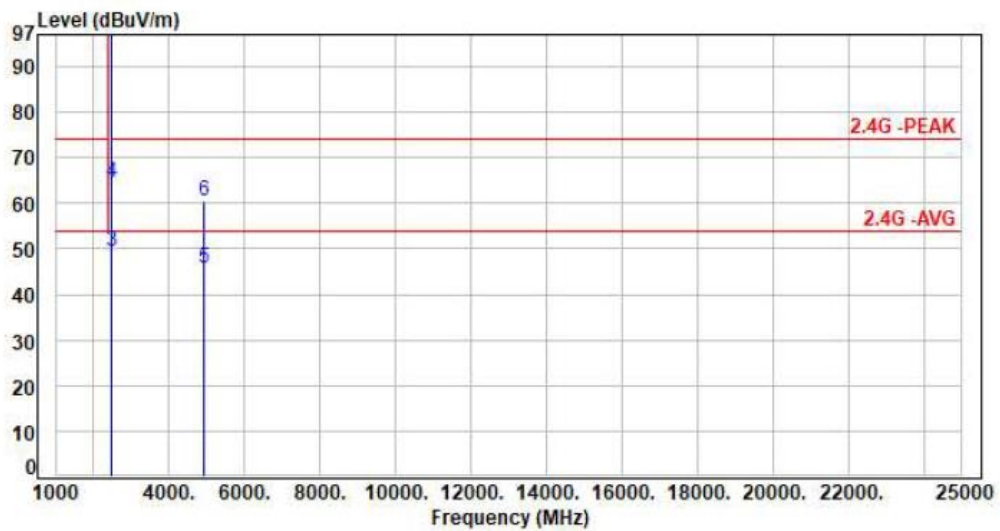
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



**Test Mode** Mode 1

Test Mode : 2TX 11n20 CH11 MCS0
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical

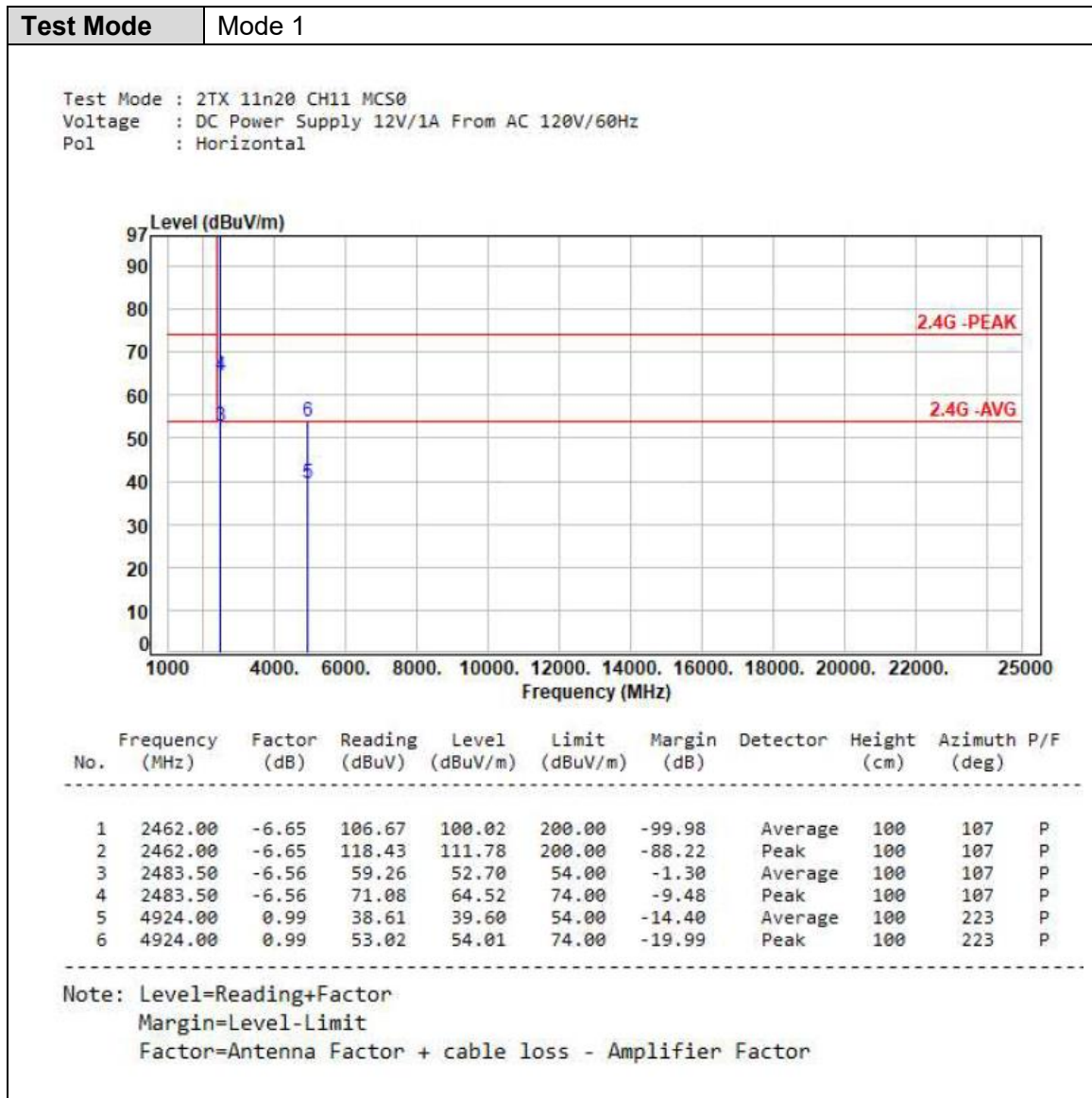


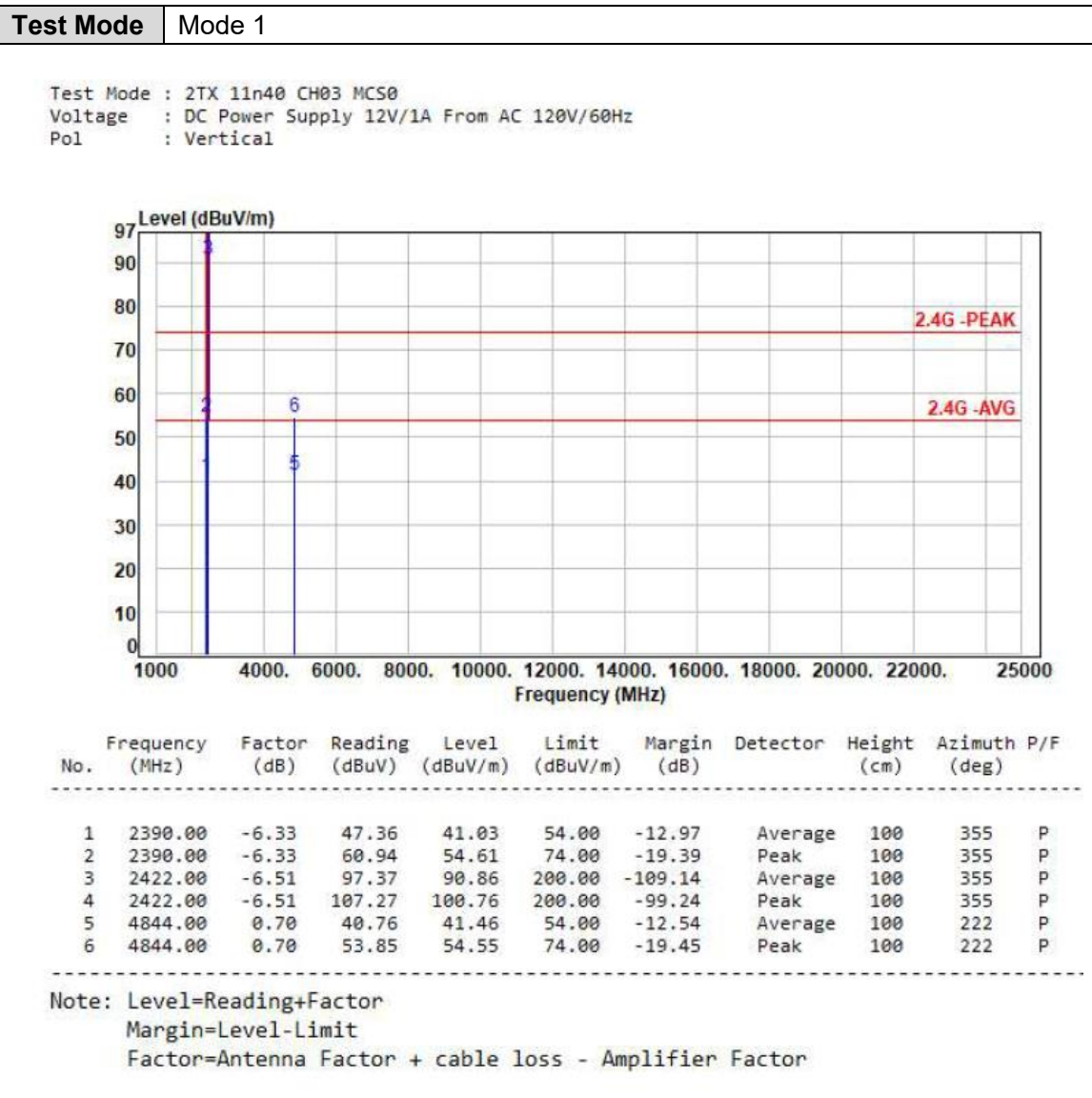
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-6.65	102.22	95.57	200.00	-104.43	Average	100	360	P
2	2462.00	-6.65	112.01	105.36	200.00	-94.64	Peak	100	360	P
3	2483.50	-6.56	56.00	49.44	54.00	-4.56	Average	100	360	P
4	2483.50	-6.56	71.22	64.66	74.00	-9.34	Peak	100	360	P
5	4924.00	0.99	44.61	45.60	54.00	-8.40	Average	100	306	P
6	4924.00	0.99	59.53	60.52	74.00	-13.48	Peak	100	306	P

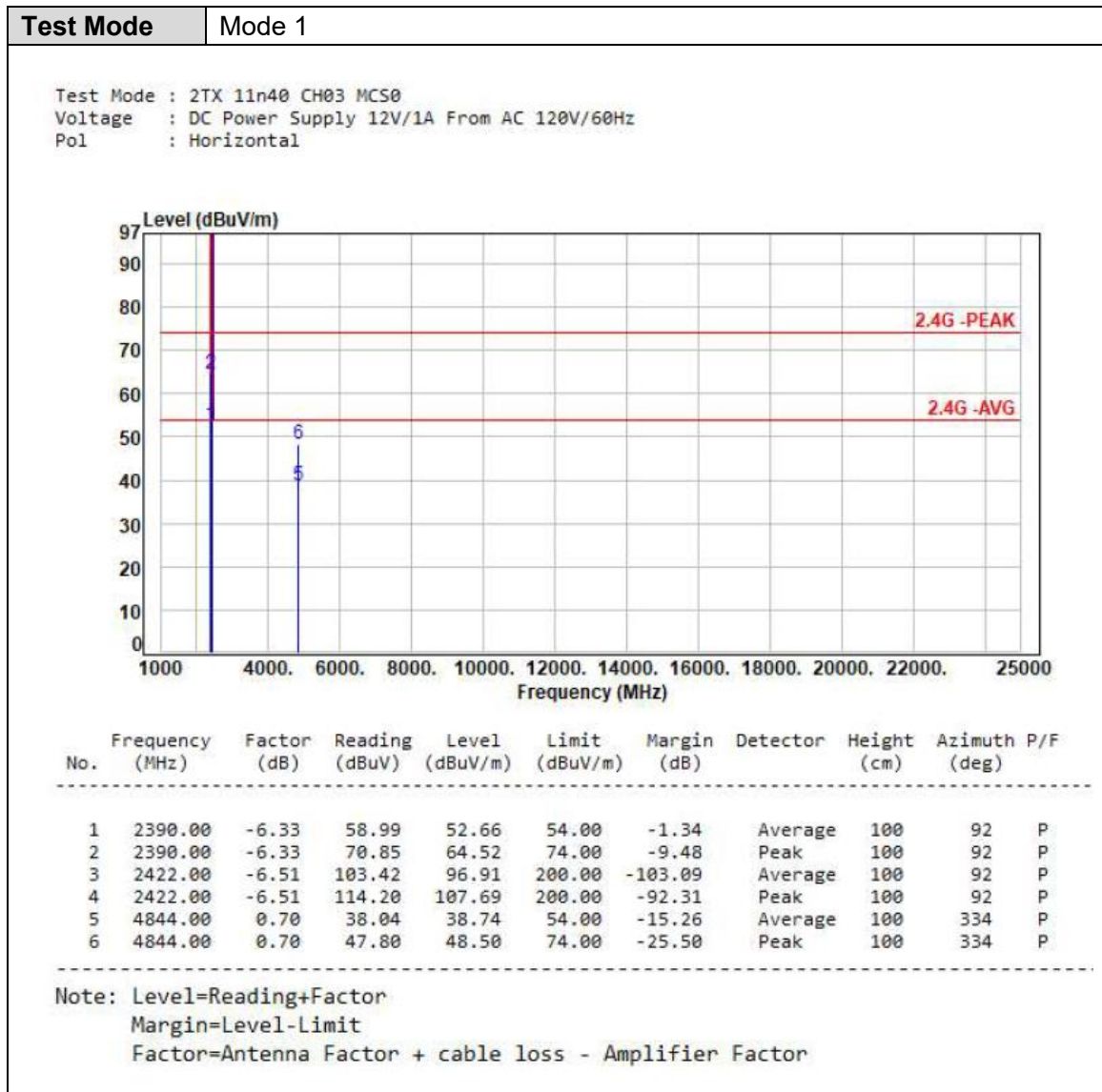
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

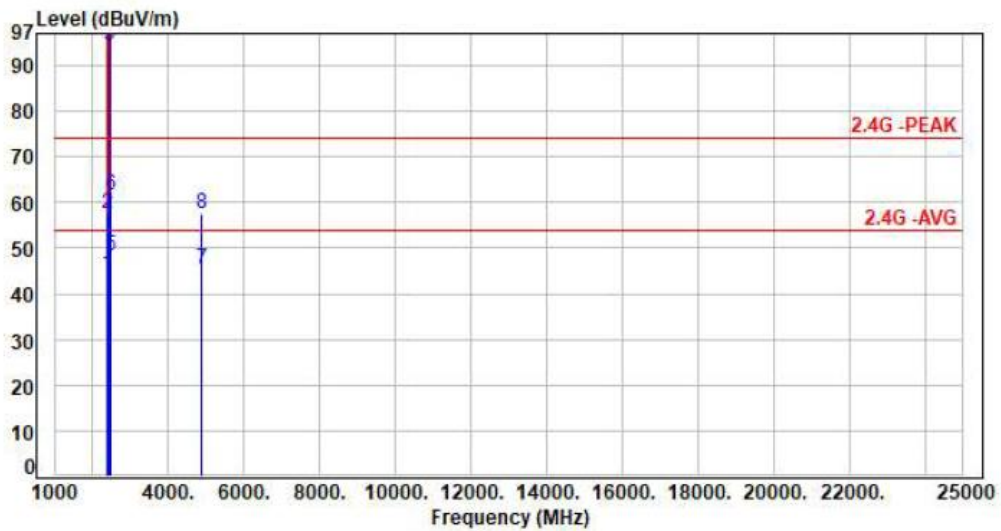






**Test Mode** Mode 1

Test Mode : 2TX 11n40 CH06 MCS0
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical

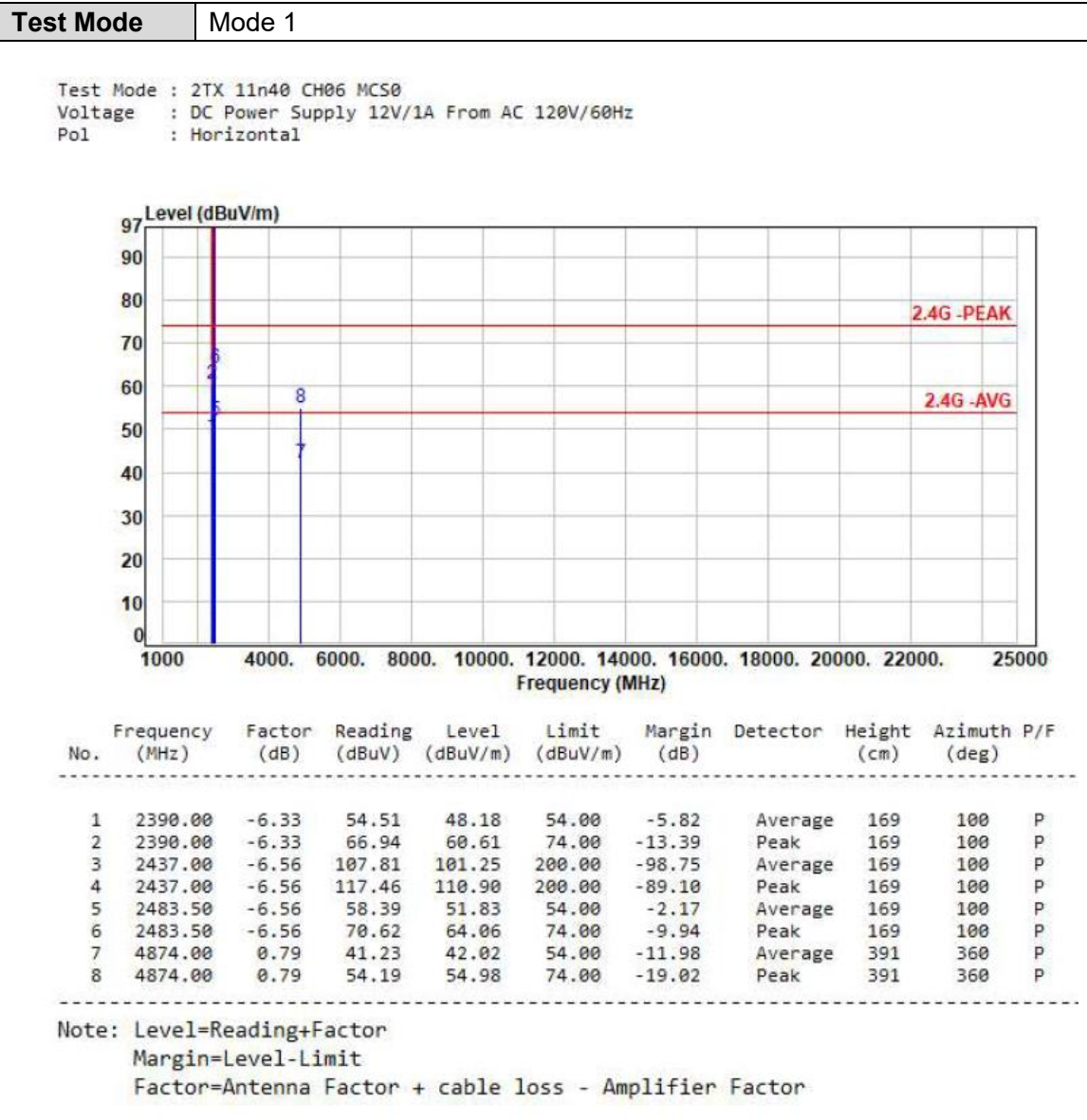


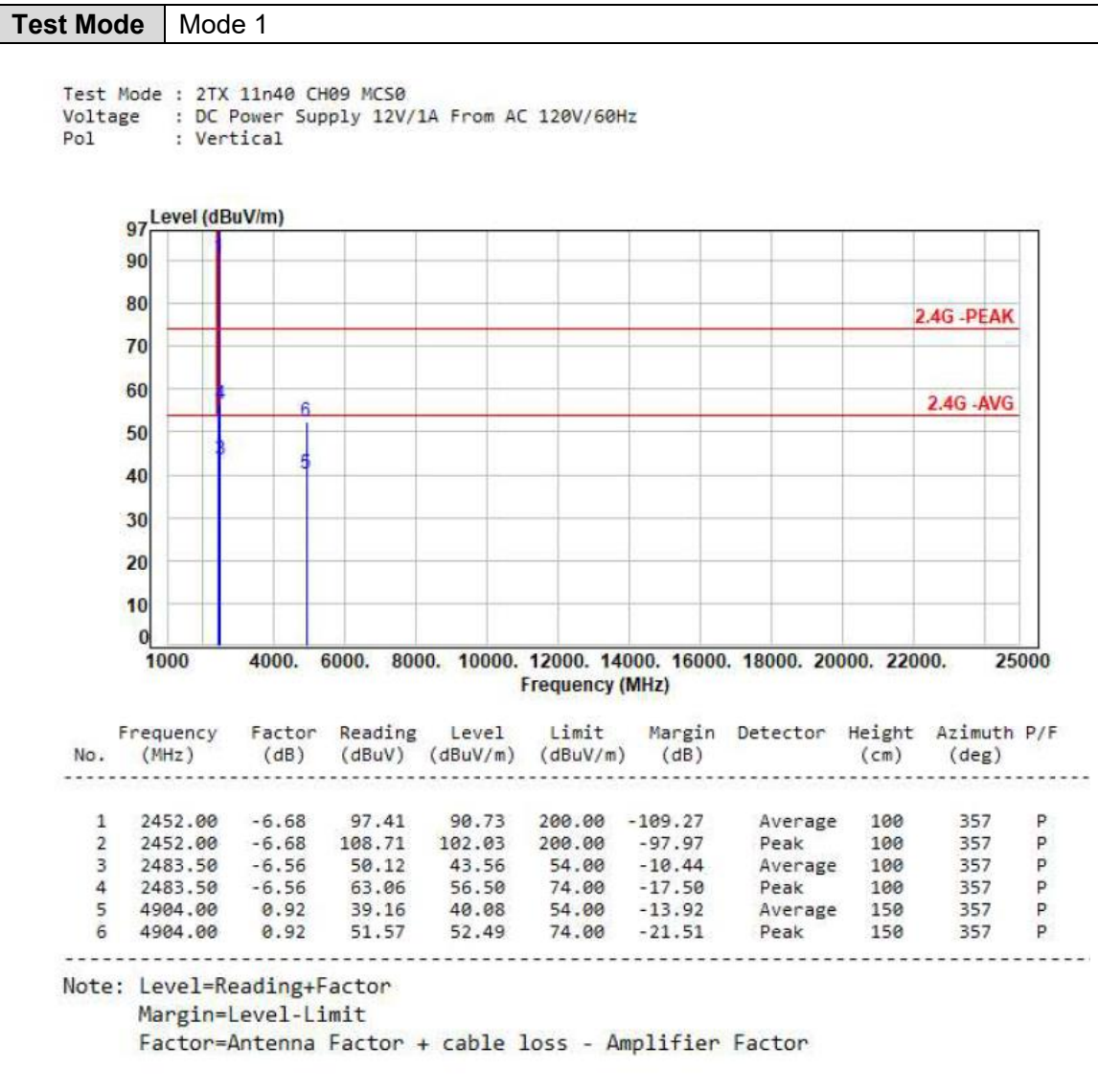
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	50.43	44.10	54.00	-9.90	Average	100	351	P
2	2390.00	-6.33	63.95	57.62	74.00	-16.38	Peak	100	351	P
3	2437.00	-6.56	100.88	94.32	200.00	-105.68	Average	100	351	P
4	2437.00	-6.56	110.11	103.55	200.00	-96.45	Peak	100	351	P
5	2483.50	-6.56	54.94	48.38	54.00	-5.62	Average	100	351	P
6	2483.50	-6.56	68.13	61.57	74.00	-12.43	Peak	100	351	P
7	4874.00	0.79	44.75	45.54	54.00	-8.46	Average	100	221	P
8	4874.00	0.79	56.88	57.67	74.00	-16.33	Peak	100	221	P

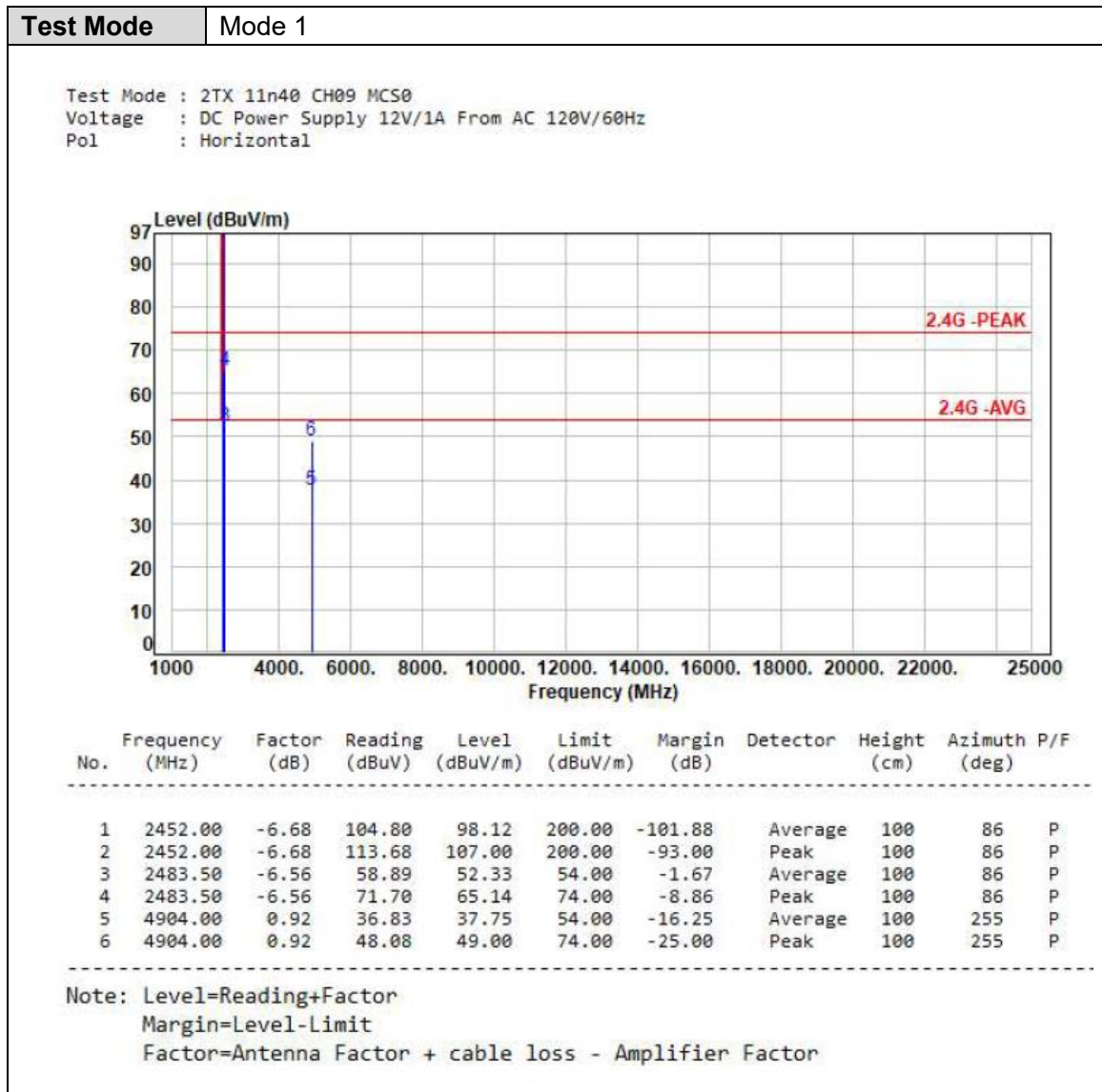
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

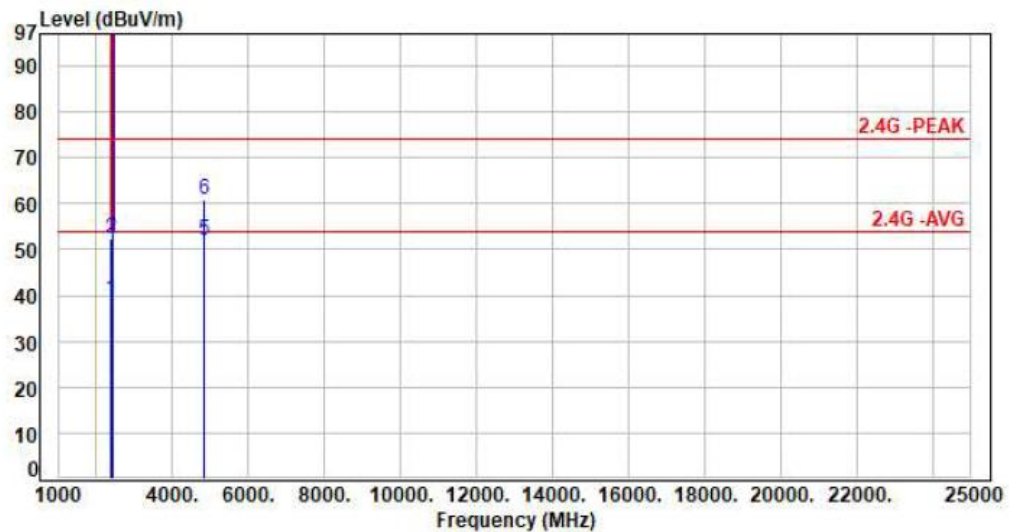






**Test Mode** Mode 2

Test Mode : 2TX 11b CH01 1Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical

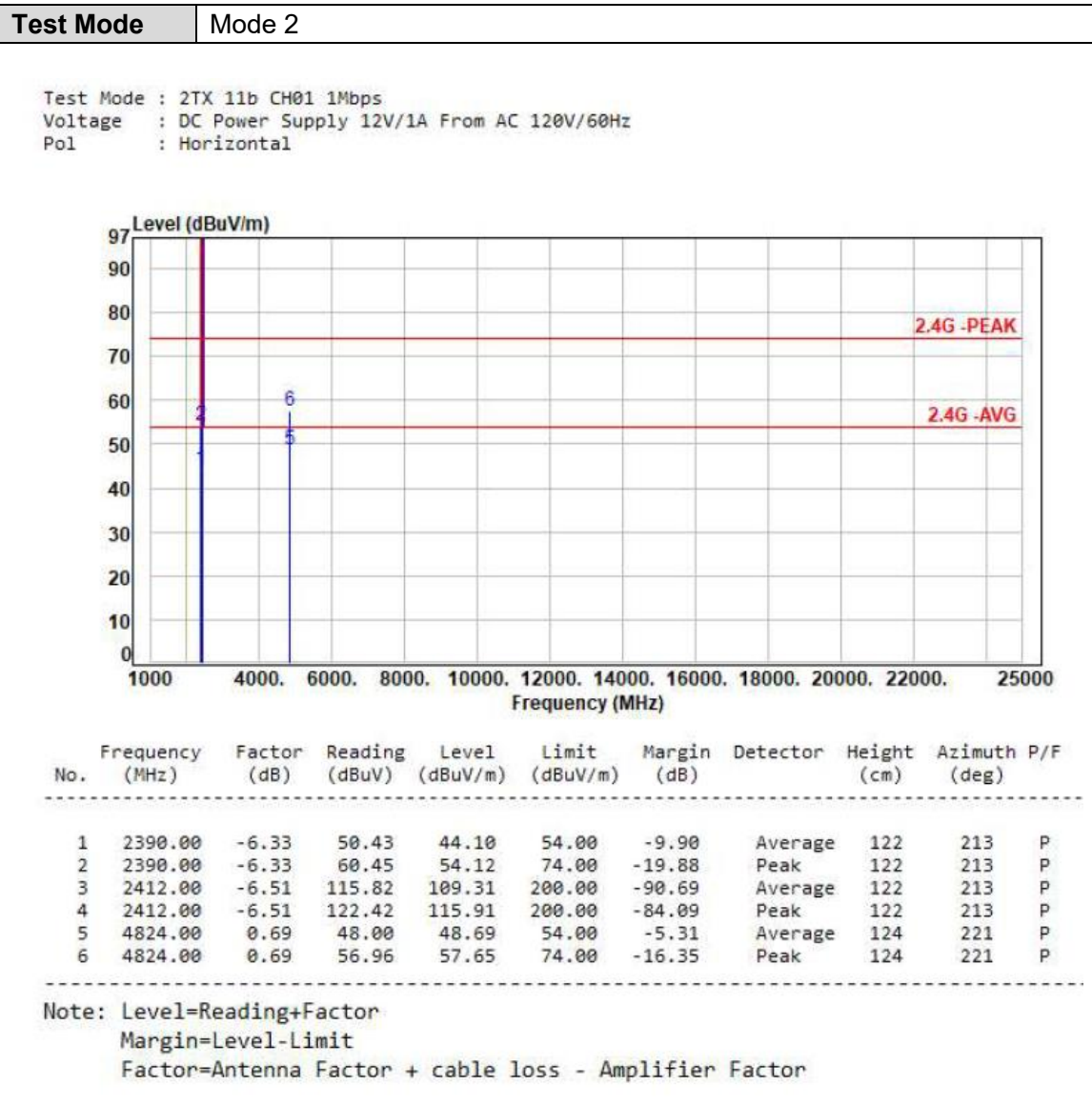


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	45.35	39.02	54.00	-14.98	Average	100	130	P
2	2390.00	-6.33	58.53	52.20	74.00	-21.80	Peak	100	130	P
3	2412.00	-6.51	107.29	100.78	200.00	-99.22	Average	100	130	P
4	2412.00	-6.51	114.65	108.14	200.00	-91.86	Peak	100	130	P
5	4824.00	0.69	51.35	52.04	54.00	-1.96	Average	100	31	P
6	4824.00	0.69	60.02	60.71	74.00	-13.29	Peak	100	31	P

Note: Level=Reading+Factor

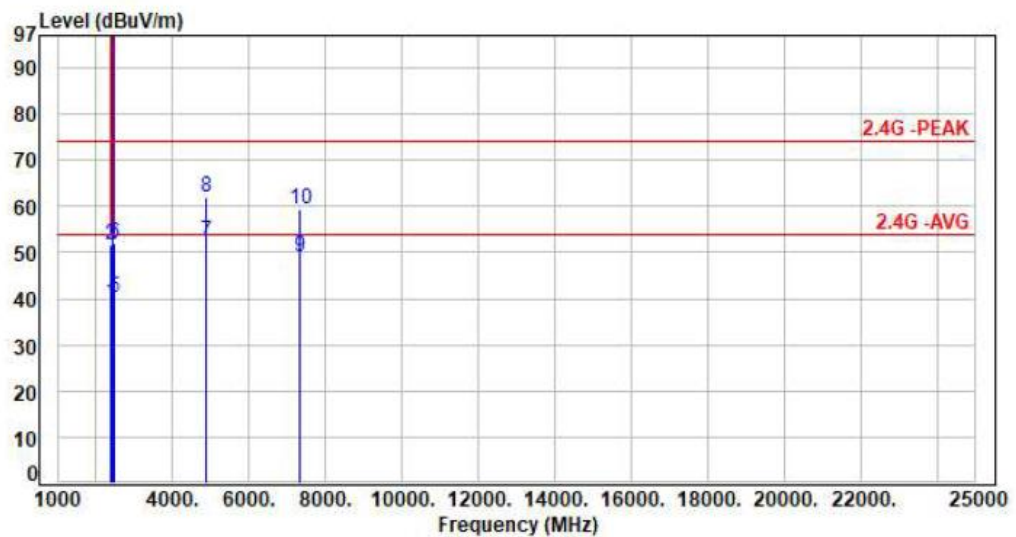
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



**Test Mode** Mode 2

Test Mode : 2TX 11b CH06 1Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Vertical

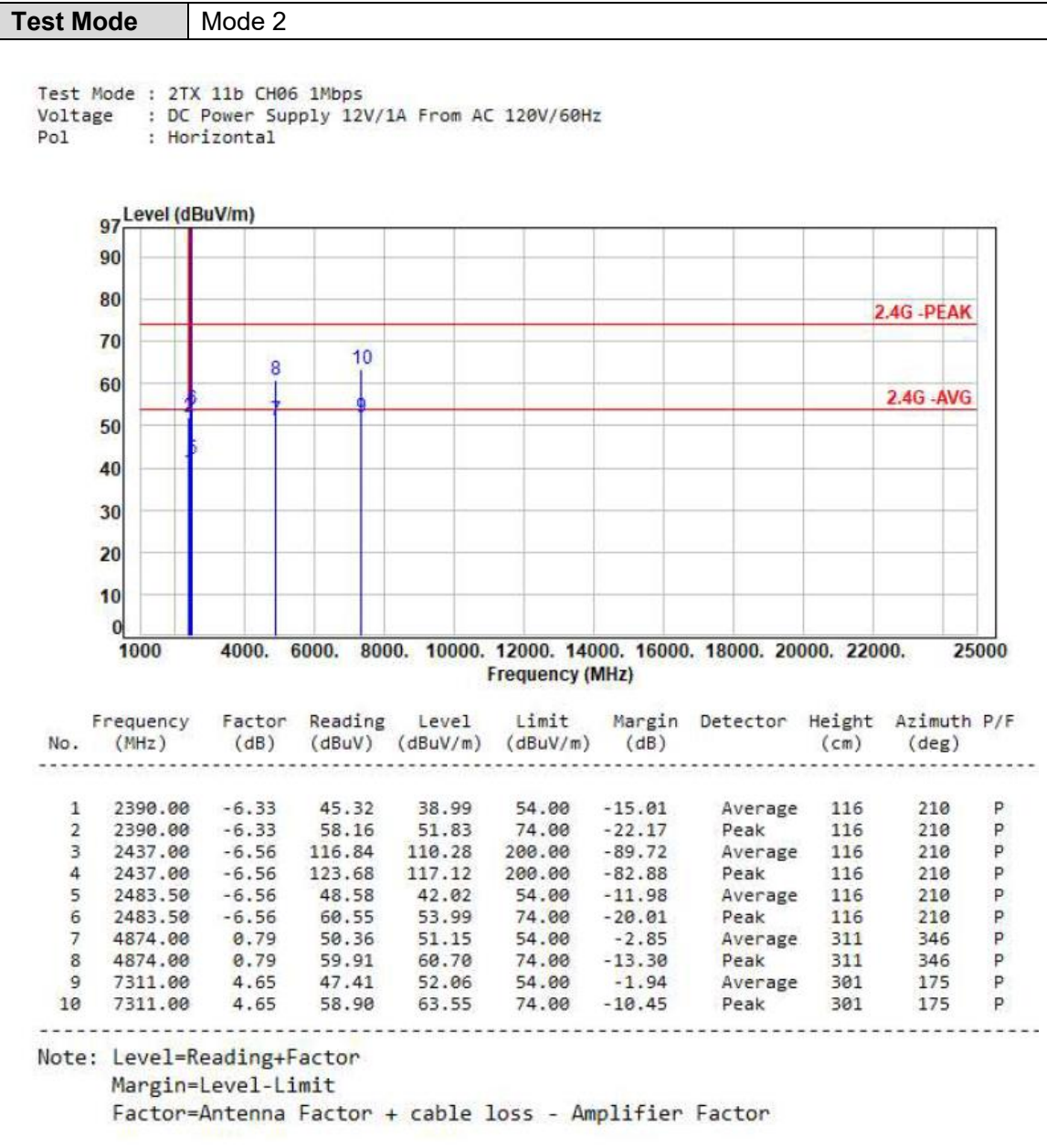


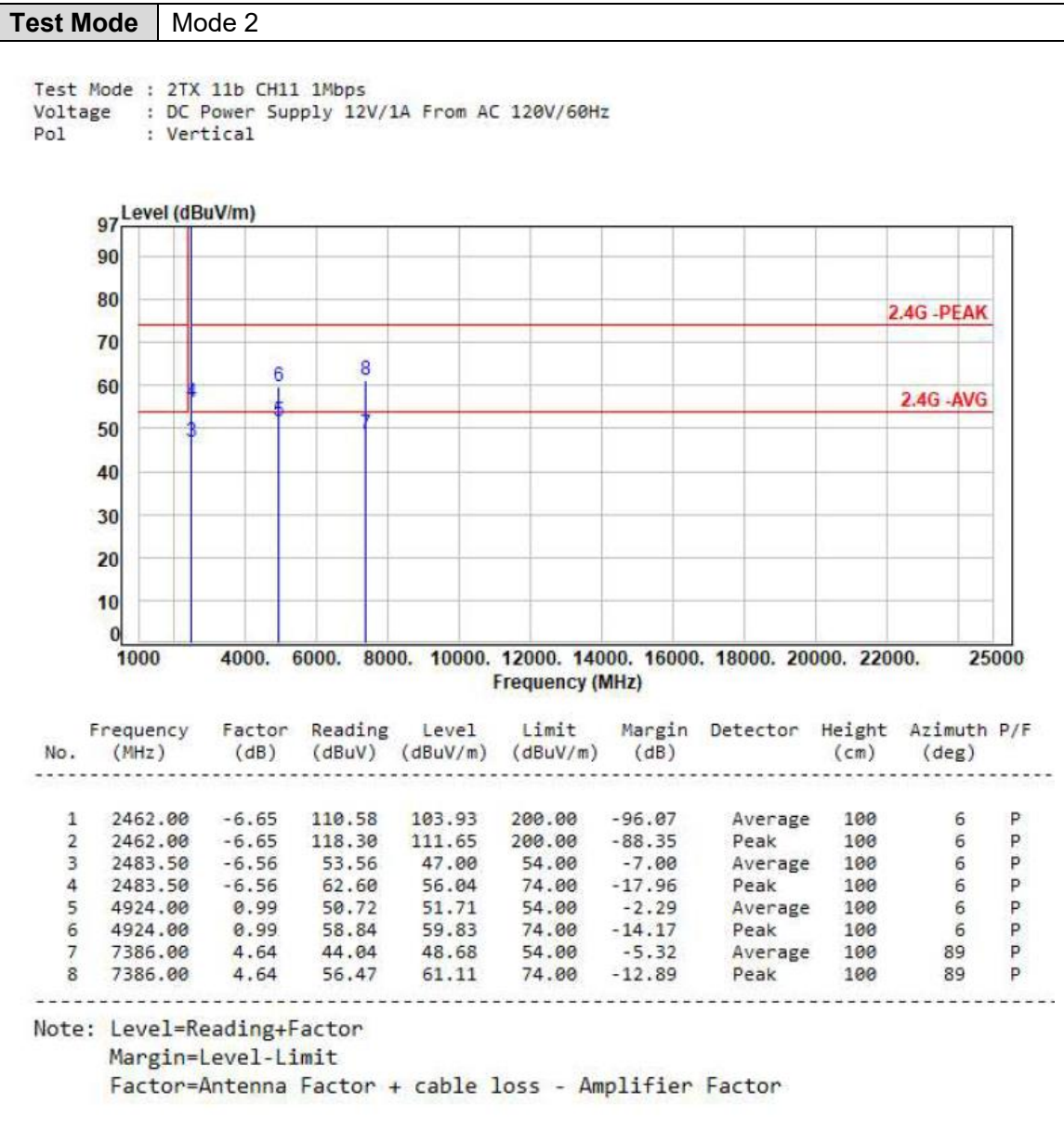
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	45.29	38.96	54.00	-15.04	Average	100	27	P
2	2390.00	-6.33	57.81	51.48	74.00	-22.52	Peak	100	27	P
3	2437.00	-6.56	111.95	105.39	200.00	-94.61	Average	100	27	P
4	2437.00	-6.56	118.59	112.03	200.00	-87.97	Peak	100	27	P
5	2483.50	-6.56	46.72	40.16	54.00	-13.84	Average	100	27	P
6	2483.50	-6.56	58.69	52.13	74.00	-21.87	Peak	100	27	P
7	4874.00	0.79	51.62	52.41	54.00	-1.59	Average	101	21	P
8	4874.00	0.79	61.27	62.06	74.00	-11.94	Peak	101	21	P
9	7311.00	4.65	44.31	48.96	54.00	-5.04	Average	111	79	P
10	7311.00	4.65	54.55	59.20	74.00	-14.80	Peak	111	79	P

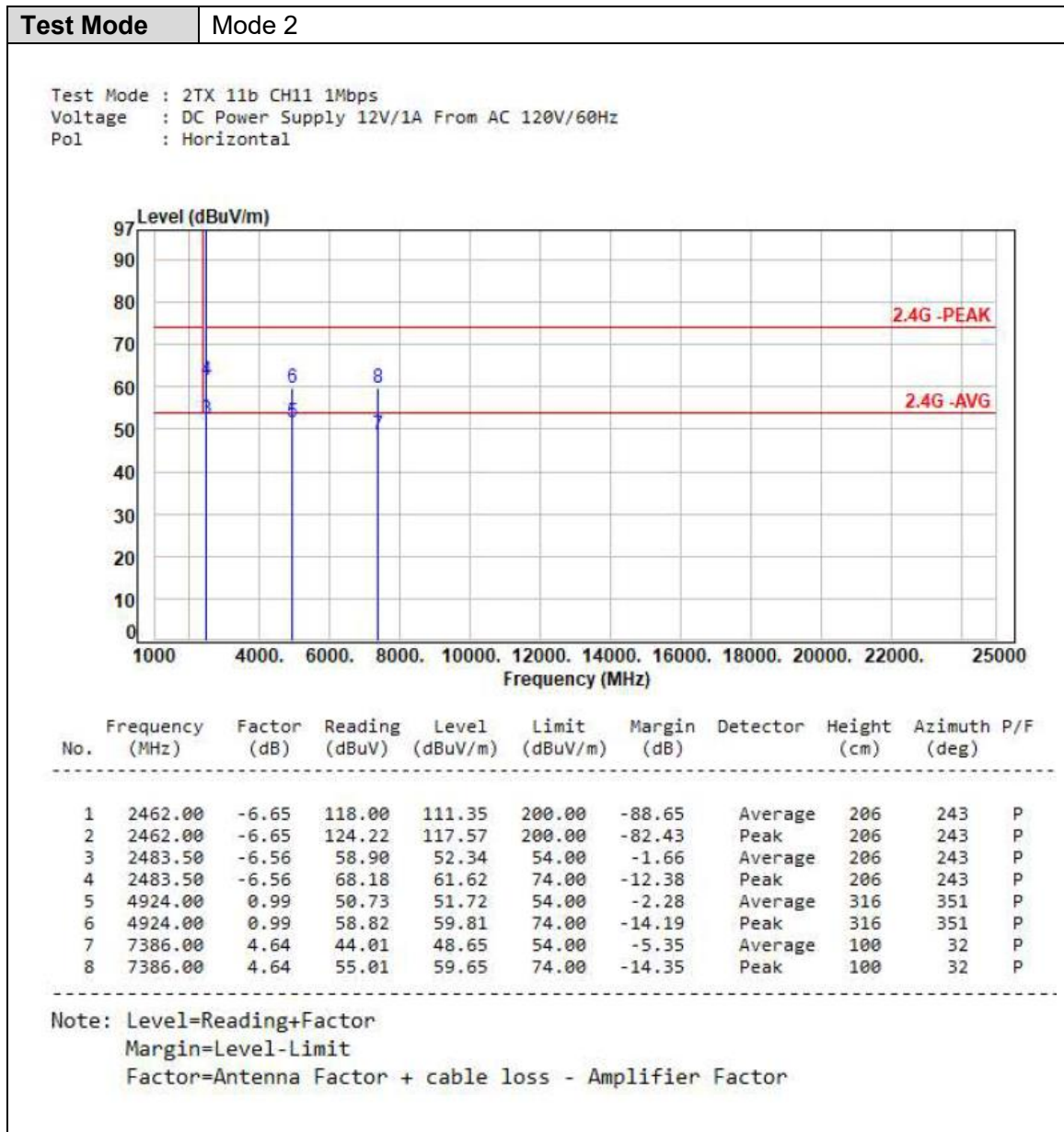
Note: Level=Reading+Factor

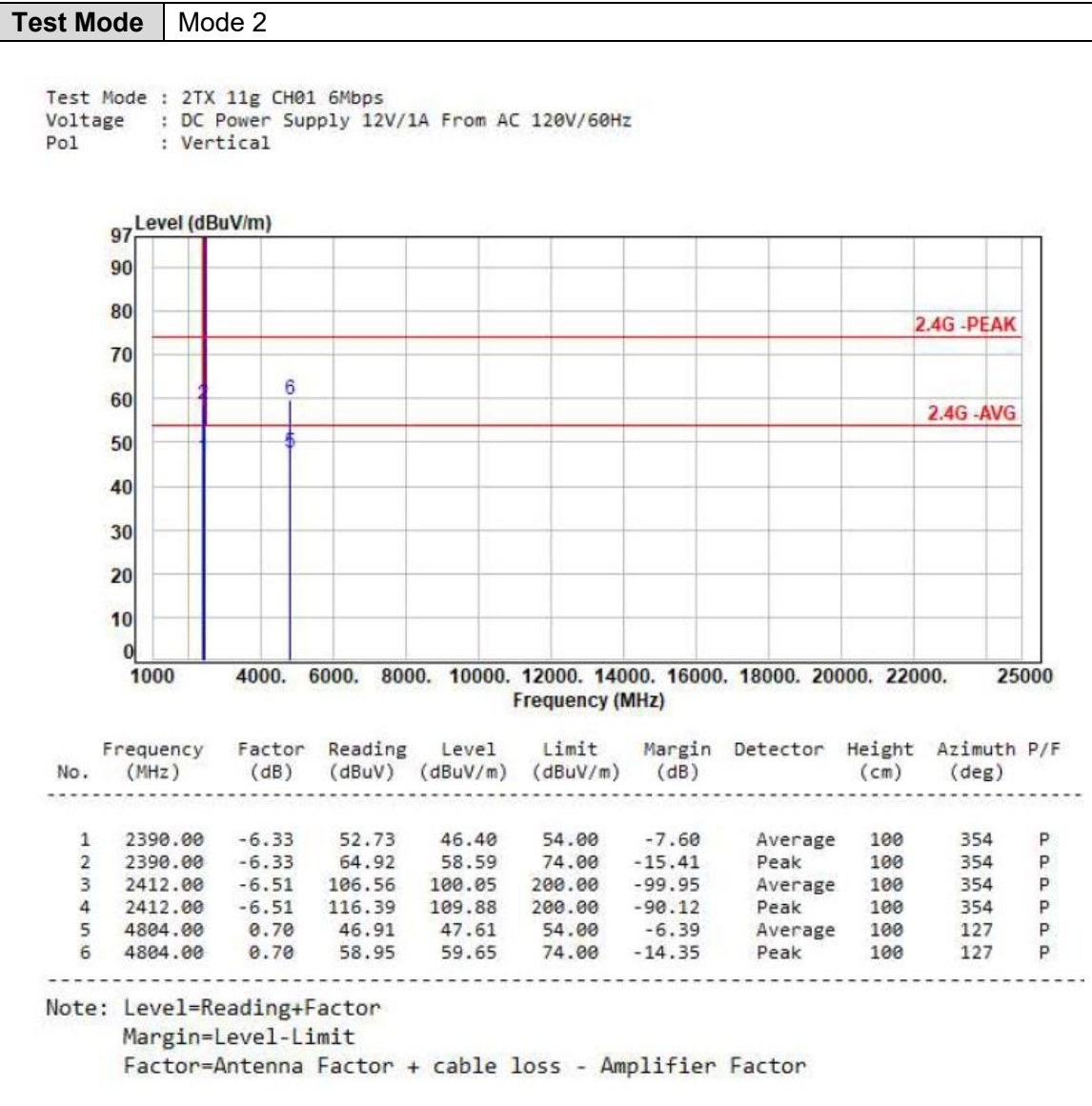
Margin=Level-Limit

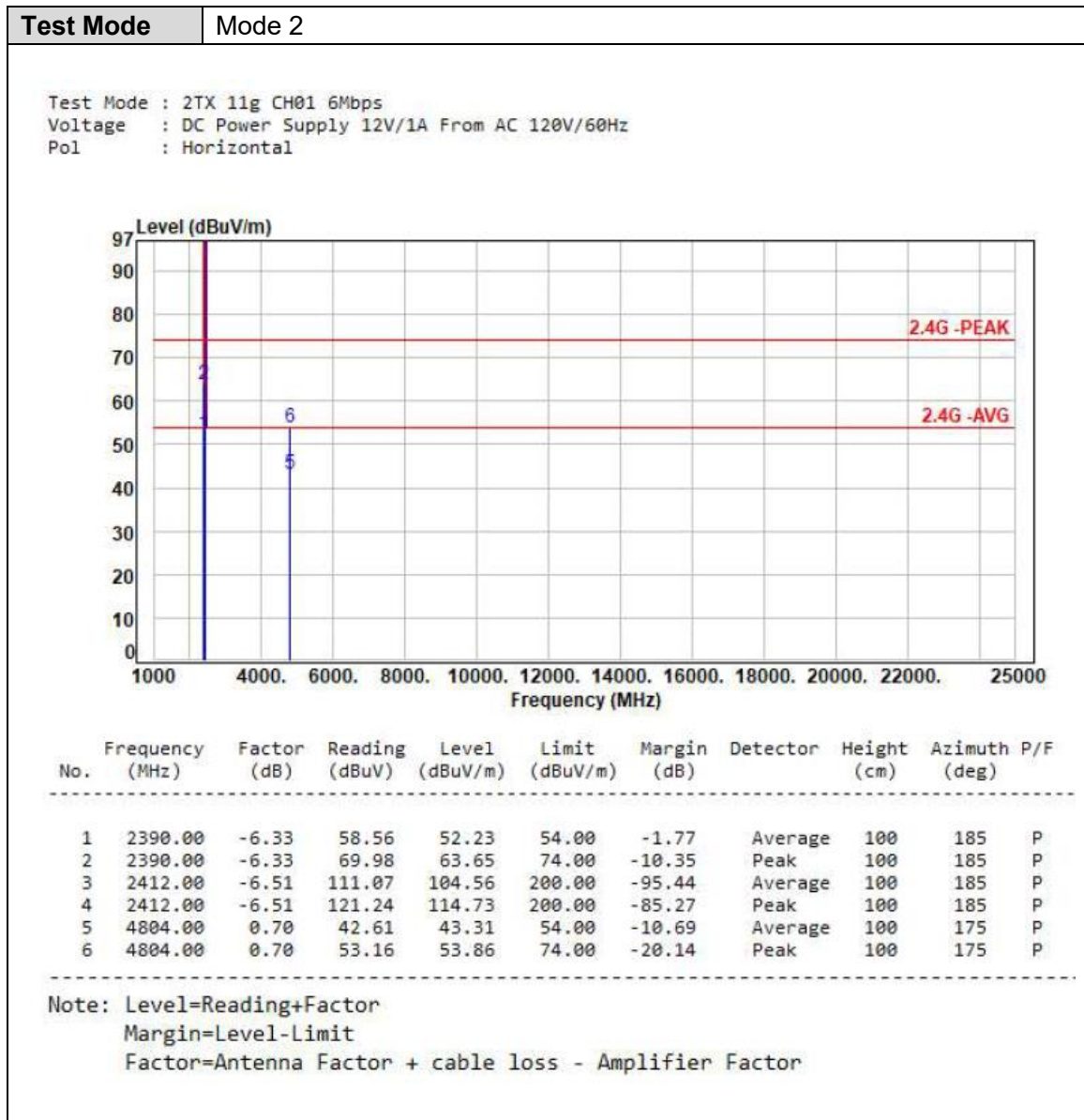
Factor=Antenna Factor + cable loss - Amplifier Factor

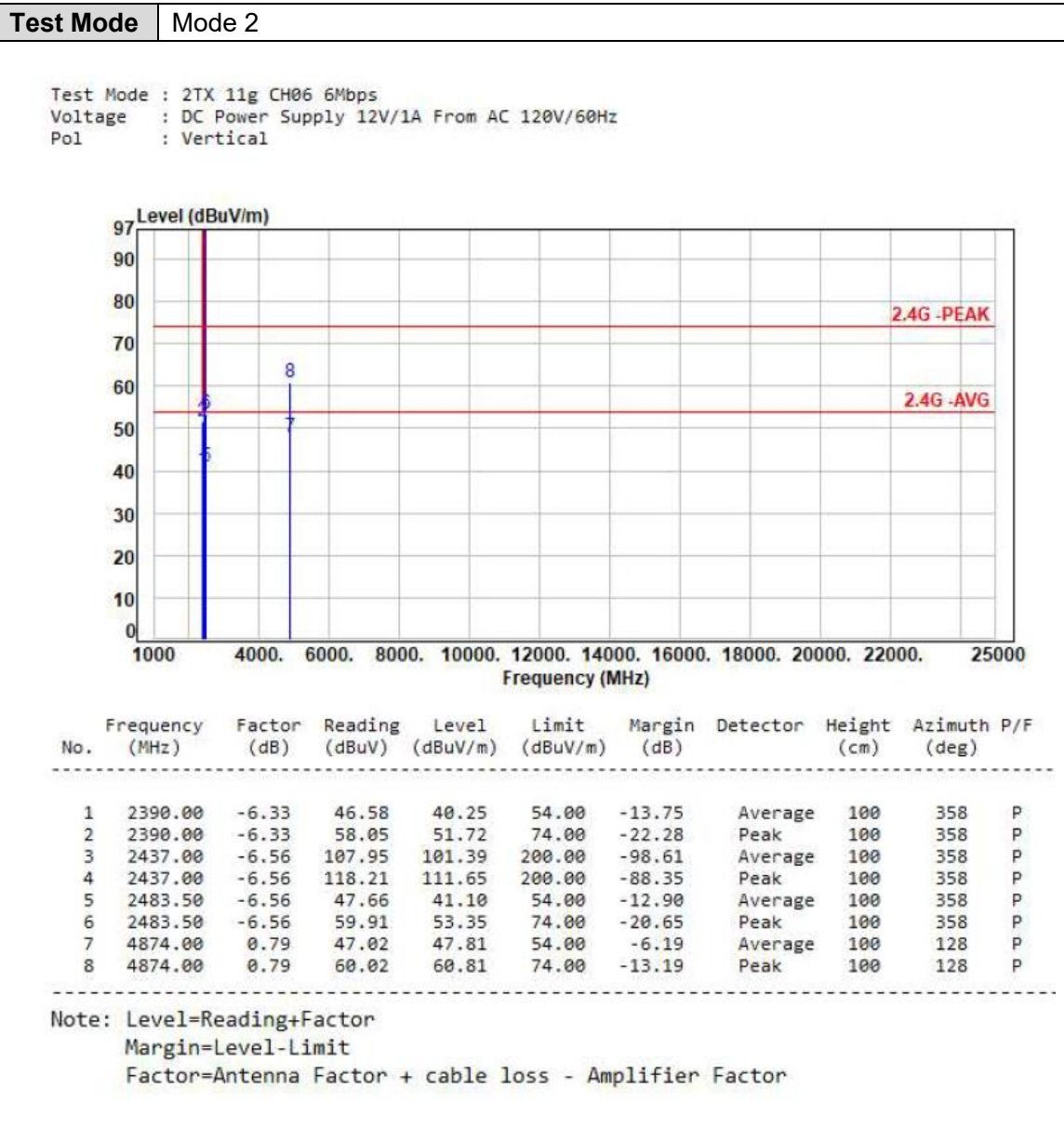






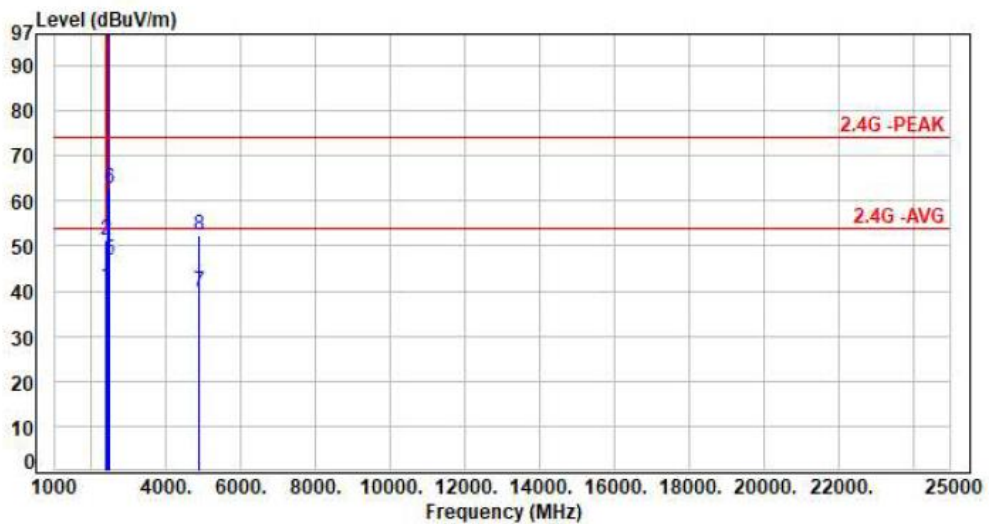






**Test Mode** Mode 2

Test Mode : 2TX 11g CH06 6Mbps
Voltage : DC Power Supply 12V/1A From AC 120V/60Hz
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.33	47.43	41.10	54.00	-12.90	Average	126	190	P
2	2390.00	-6.33	57.54	51.21	74.00	-22.79	Peak	126	190	P
3	2437.00	-6.56	114.13	107.57	200.00	-92.43	Average	126	190	P
4	2437.00	-6.56	124.52	117.96	200.00	-82.04	Peak	126	190	P
5	2483.50	-6.56	53.34	46.78	54.00	-7.22	Average	126	190	P
6	2483.50	-6.56	69.41	62.85	74.00	-11.15	Peak	126	190	P
7	4874.00	0.79	39.21	40.00	54.00	-14.00	Average	100	177	P
8	4874.00	0.79	51.52	52.31	74.00	-21.69	Peak	100	177	P

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor