



FCC RADIO TEST REPORT

Applicant : LITE-ON TECHNOLOGY CORP.

Address : Bldg. C, 90, Chien 1 Road, Chung Ho,
New Taipei City 23585, Taiwan, R.O.C.

Equipment : Solid State Digital Sign Computer

Model No. : MD435, MD435-WW

Trade Name : BrightSign

FCC ID : PPQ-MD435

I HEREBY CERTIFY THAT :

The sample was received on Sep. 13, 2024 and the testing was completed on Oct. 10, 2024 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





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
5.5 Test Photographs	18
6. Test of Radiated Spurious Emission.....	19
6.1 Test Limit	19
6.2 Test Procedures	20
6.3 Typical Test Setup	21
6.4 Test Result and Data (9KHz ~ 30MHz)	22
6.5 Test Result and Data (30MHz ~ 1GHz)	22
6.6 Test Result and Data (1GHz ~ 25GHz).....	24
6.7 Restricted Bands of Operation	48
6.8 Test Photographs (30MHz ~ 1GHz)	49
6.9 Test Photographs (1GHz ~ 25GHz)	50
7. Test of Conducted Spurious Emission	52
7.1 Test Limit	52
7.2 Test Procedure	52
7.3 Test Setup Layout	52
7.4 Test Result and Data.....	52
8. On Time, Duty Cycle and Measurement methods	61
8.1 Test Limit	61
8.2 Test Procedure	61
8.3 Test Setup Layout	61
8.4 Test Result and Data.....	61
9. 6dB Bandwidth Measurement Data.....	63
9.1 Test Limit	63
9.2 Test Procedures	63



9.3	Test Setup Layout	63
9.4	Test Result and Data.....	63
10.	Maximum Average Output Power	68
10.1	Test Limit	68
10.2	Test Procedures	68
10.3	Test Setup Layout	68
10.4	Test Result and Data.....	68
11.	Power Spectral Density	69
11.1	Test Limit	69
11.2	Test Procedures	69
11.3	Test Setup Layout	69
11.4	Test Result and Data.....	69



History of this test report

Report No.	Issued Date	Description
24090226-TRFCC01	Oct. 14, 2024	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

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.

*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report (24090226-TEFV01).



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
Center Frequency Range	802.11b/g/n: 2412MHz-2462MHz 802.11a/n/ac: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Modulation Type	2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM
Data Rate	2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS7, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Dipole Antenna
Antenna Gain	2400-2500MHz: 1.95dBi 5180-5240MHz: 2.37dBi 5260-5320MHz: 2.49dBi 5500-5700MHz: 3.64dBi 5745-5825MHz: 3.34dBi
Adapter	RISUNIC \ R0182-1201500US
	APD \ WB-18U12R
Firmware No.	5.10.198+bs9.0.166.1

Note:

1. EUT support TPC Function.
2. EUT support DFS Client Mode, without radar detection.
3. For more details, please refer to the User's manual of the EUT.

Difference description:

1. The EUT have two kinds of super capacitors can be used.
These super capacitors can be used with all the Model No.
2. All the Model No. are marketing purpose.
3. The test sample is Model No.: MD435 with super capacitor (main source).



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20 (2412MHz-2462MHz)

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 (2422MHz-2452MHz)

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, "rtwpriv command" under Windows 10 system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode 1	802.11b (1Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11b (1Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: R0182-1201500US
Test Mode 3	802.11b (1Mbps), TX Mode, Power from Adapter (AC 240V/60Hz), Adapter: R0182-1201500US
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
Radiated Emissions (30MHz ~ 1GHz)	
Test Mode 1	802.11b (1Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11b (1Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: R0182-1201500US
Test Mode 3	802.11b (1Mbps), TX Mode, Power from Adapter (AC 240V/60Hz), Adapter: WB-18U12R
caused "Test Mode 1" generated the worst case, it was reported as the final data.	
Radiated Emissions (1GHz ~ 25GHz)	
Test Mode 1	802.11b (1Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11g (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 3	802.11n HT20 (6.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 4	802.11n HT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
caused "Test Mode 1,2,3,4" were the worst case, these were reported as the final data.	

Modulation Type	TX CONFIGURATION
802.11b	1TX
802.11g	1TX
802.11n HT20	1TX
802.11n HT40	1TX



2.4 Description of Test System

RF Conducted				
Equipment	Brand	Model	Length/Type	Power cord/ Length/Type
Notebook	lenovo	S1GL2W	N/A	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
MicroSDHC	ADATA	8G	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / NS	N/A
Monitor	ASUS	PA279-1	N/A	N/A
Flash	TranScend	USB3.0 16GB	N/A	N/A
Earphone	Apple	Earpods	1m / NS	N/A
HDMI Cable	J5 Create	HDMI 8K	1.8m / NS	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
MicroSDHC	ADATA	8G	N/A	N/A
RJ45 Cable	TE CONNECTIVITY	CAT5E	15m / NS	N/A
Monitor	ASUS	PA279-1	N/A	N/A
Flash	TranScend	USB3.0 16GB	N/A	N/A
Earphone	Apple	Earpods	1m / NS	N/A
HDMI Cable	J5 Create	HDMI 8K	1.8m / NS	N/A



2.5 General Information of Test

☑ 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.	

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2024/09/25	25.9°C / 41%	Leon Huang
RF Conducted	RFCON01-NK	2024/09/26	26.3°C / 42%	Leon Huang
RF Conducted	RFCON01-NK	2024/10/10	24.8°C / 47%	Leon Huang
Radiated Emissions	3M03-NK	2024/09/19	25°C / 53%	Park Chen
Radiated Emissions	3M03-NK	2024/09/23	23.5°C / 51%	Park Chen
Radiated Emissions	3M03-NK	2024/09/27	25°C / 55%	Leon Huang
Radiated Emissions	3M03-NK	2024/10/01	23°C / 49%	Leon Huang
AC Power Line Conducted Emission	CON02-NK	2024/09/26	25°C / 52%	Eason Hsu

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)	±3.12dB
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				
Test Site	Semi Anechoic Room(3M03-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Sunol	JB1	A020514-1	2024/05/17	2025/05/16
Active Loop Antenna	Schwarzbeck	FMZB 1513	00414	2024/01/16	2025/01/15
Horn Antenna	EMCO	3116	31974	2023/10/16	2024/10/15
Horn Antenna	RF SPIN	DRH18-E	211205A18EN	2024/06/20	2025/06/19
Spectrum Analyzer	R&S	FSP 40	100047	2024/03/01	2025/02/28
EMI Receiver	R&S	ESR 7	101906	2024/05/13	2025/05/12
Preamplifier	EMC INSTRUMENTS	EMC118A45V1SEE	980993	2023/10/16	2024/10/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2023/10/13	2024/10/12
Preamplifier	EM Electronics corp.	EM330	60820	2024/06/14	2025/06/13
Cable-3m (9k-3G)	N/A	EMC5D-BM-BM-6	130606	2024/03/13	2025/03/12
Cable-8m (10M-26.5G)	HUBER SUHNER	SF126E	587396/126E	2023/10/12	2024/10/11
Cable-3m (10M-26.5G)	HUBER SUHNER	SF126E	587399/126E	2023/10/12	2024/10/11
Cable-1m (10M-40G)	HUBER SUHNER	SF102	804398/2	2023/10/12	2024/10/11
Cable-1m (1G-26.5G)	HUBER SUHNER	SF126E	589848/126E	2023/10/12	2024/10/11
Cable-4m (30M-1G)	HUBER SUHNER	RG-214	02953M	2024/9/4	2025/09/03
Cable-1m (30M-1G)	HUBER SUHNER	RG-214	05094M	2024/9/4	2025/09/03
Cable-9m (30M-1G)	HUBER SUHNER	RG-214	00402M	2024/9/4	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
Notch Filter	Warison	WFIL-N5925-7125F-04	WRQ4BFWC4M1	2024/03/11	2025/03/10
Hipass Filter	Warison	WFIL-H7500-18000F	WRQ4BFWC2J1	2024/03/11	2025/03/10



Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2023/11/06	2024/11/05
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19

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	ESR 7	101906	2024/05/13	2025/05/12
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	Dipole Antenna
Antenna Gain	1.95dBi



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 C63.10-2013. 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

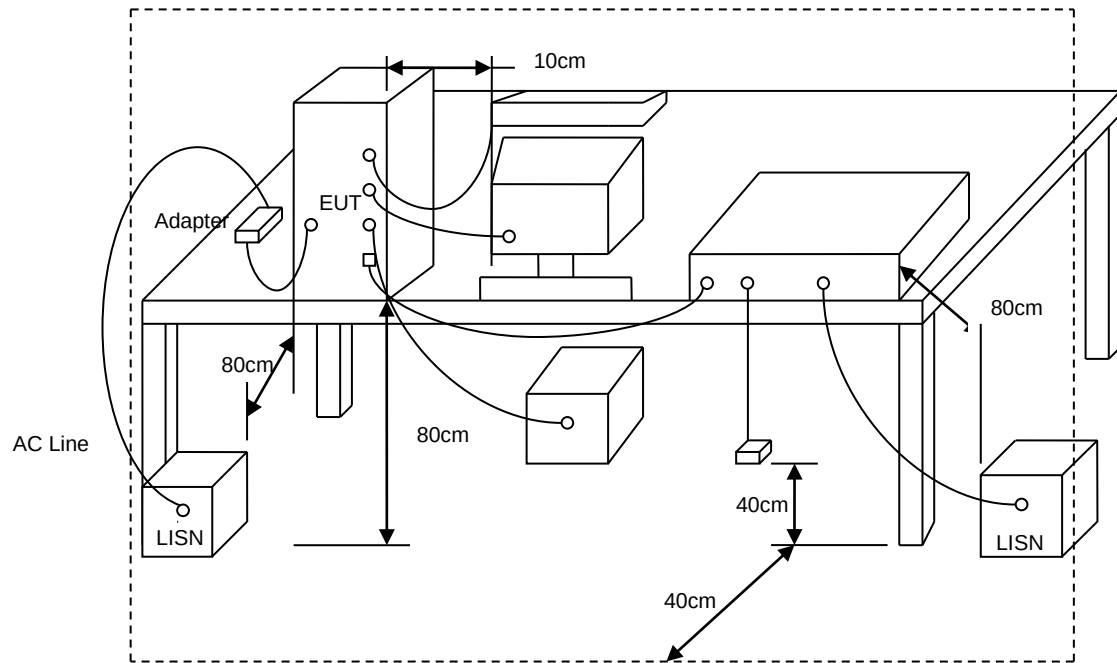
*Decreases with the logarithm of the frequency.

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.

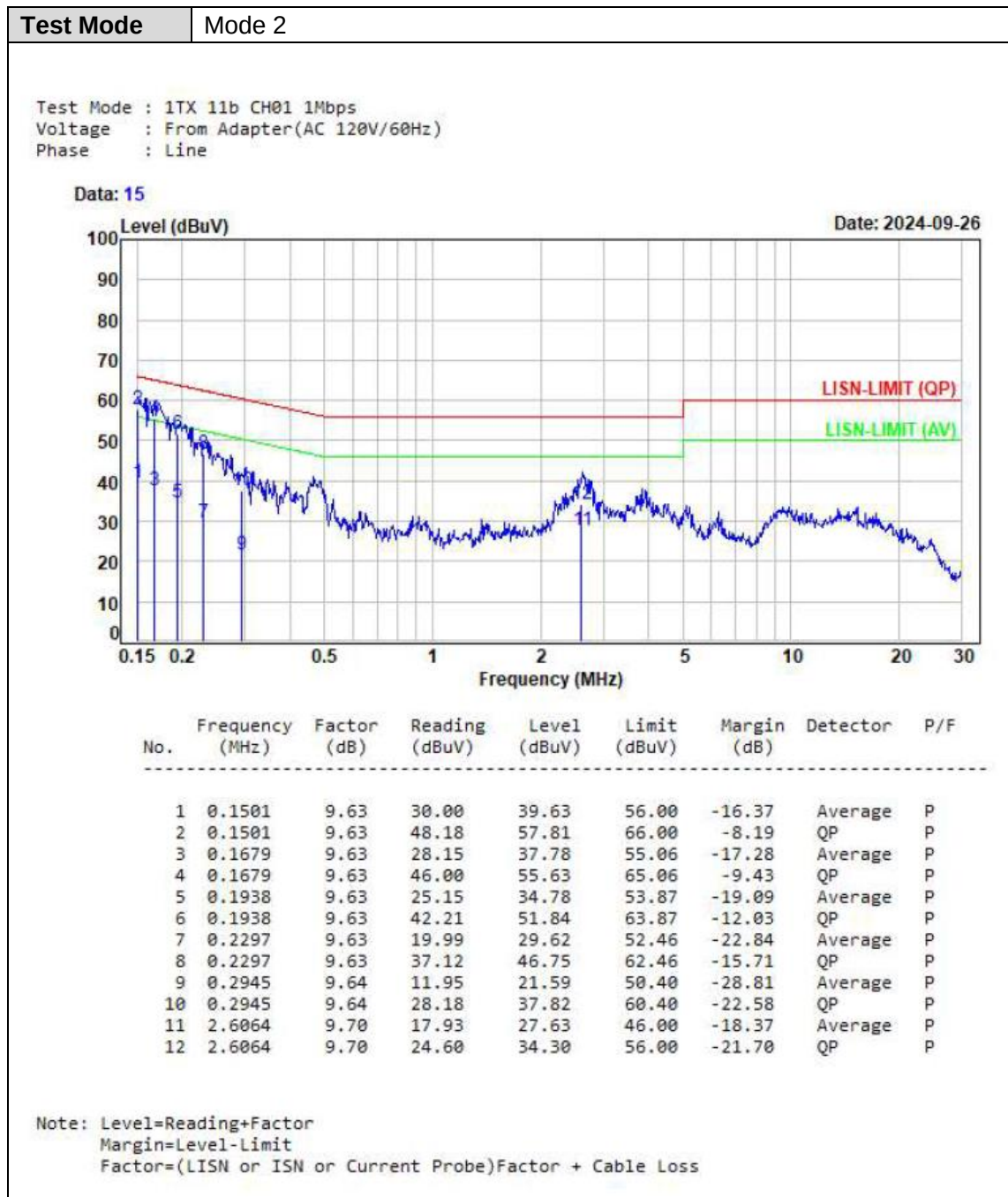


5.3 Typical Test Setup





5.4 Test Result and Data

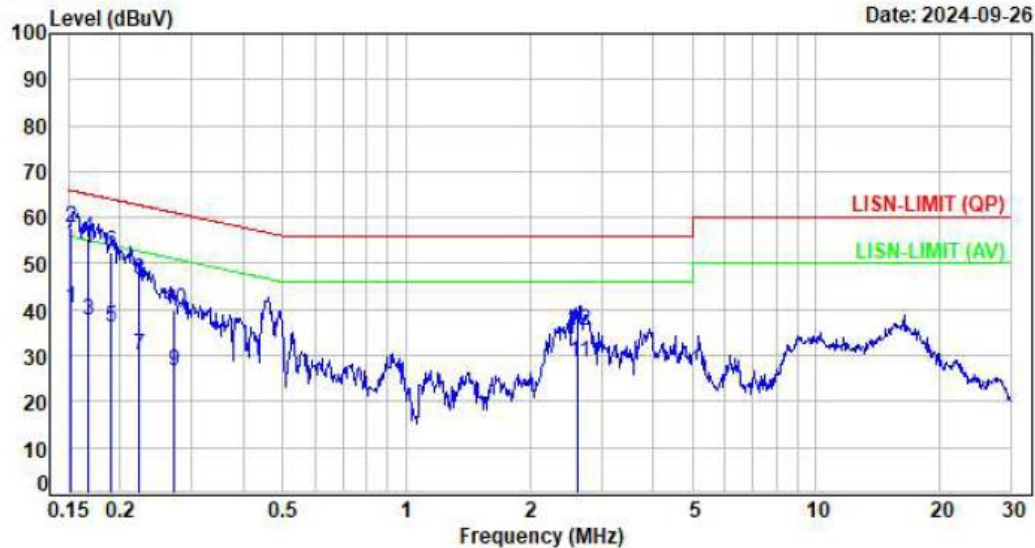


**Test Mode** Mode 2

Test Mode : 1TX 11b CH01 1Mbps
Voltage : From Adapter(AC 120V/60Hz)
Phase : Neutral

Data: 16

Date: 2024-09-26



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1523	9.61	30.72	40.33	55.87	-15.54	Average	P
2	0.1523	9.61	48.19	57.80	65.87	-8.07	QP	P
3	0.1670	9.61	27.99	37.60	55.11	-17.51	Average	P
4	0.1670	9.61	45.81	55.42	65.11	-9.69	QP	P
5	0.1904	9.61	26.45	36.06	54.02	-17.96	Average	P
6	0.1904	9.61	42.72	52.33	64.02	-11.69	QP	P
7	0.2228	9.61	20.59	30.20	52.71	-22.51	Average	P
8	0.2228	9.61	36.91	46.52	62.71	-16.19	QP	P
9	0.2712	9.61	17.05	26.66	51.08	-24.42	Average	P
10	0.2712	9.61	30.43	40.04	61.08	-21.04	QP	P
11	2.6319	9.69	18.90	28.59	46.00	-17.41	Average	P
12	2.6319	9.69	25.72	35.41	56.00	-20.59	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.

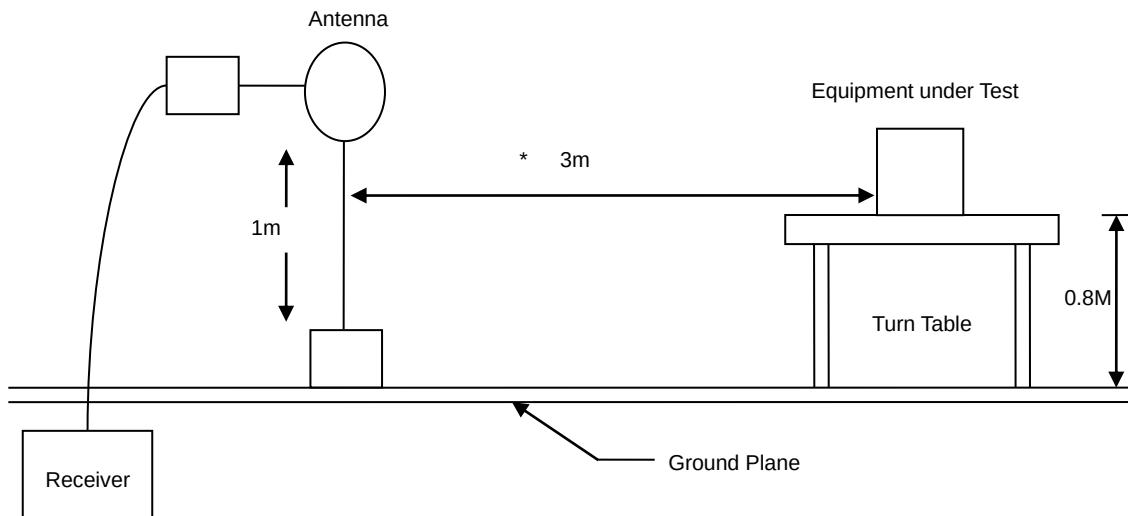
Note:

- 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.
(X-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.

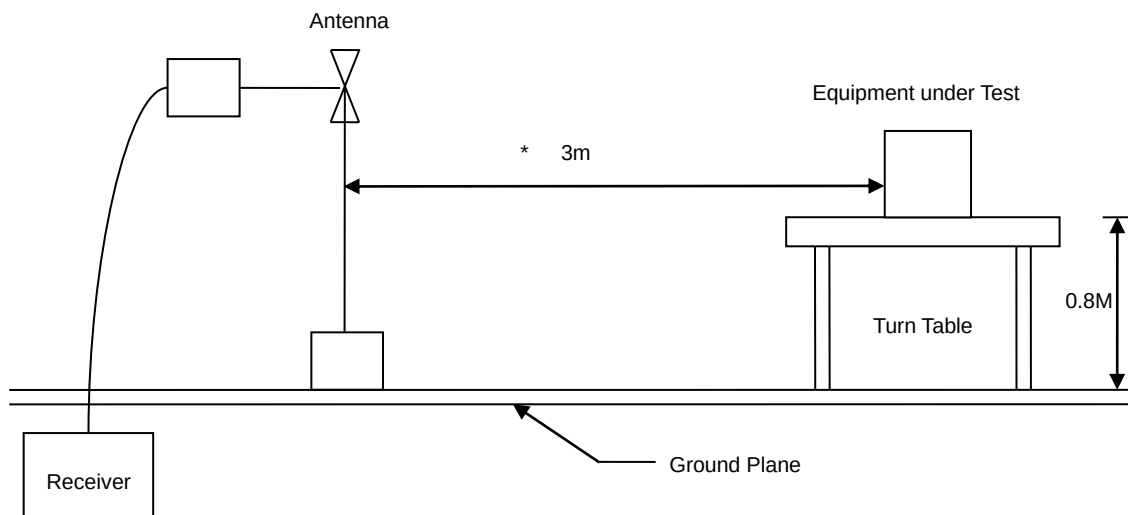


6.3 Typical Test Setup

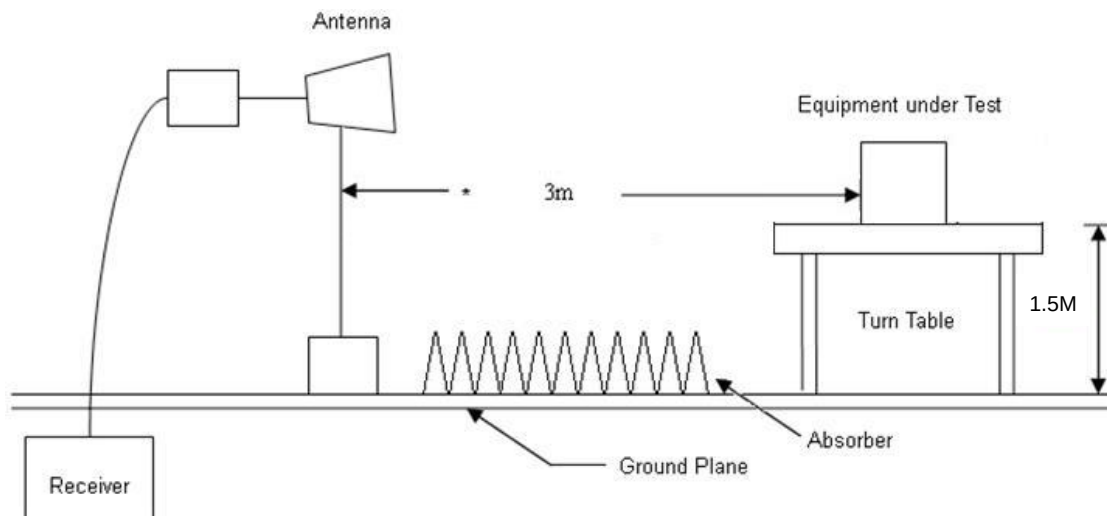
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

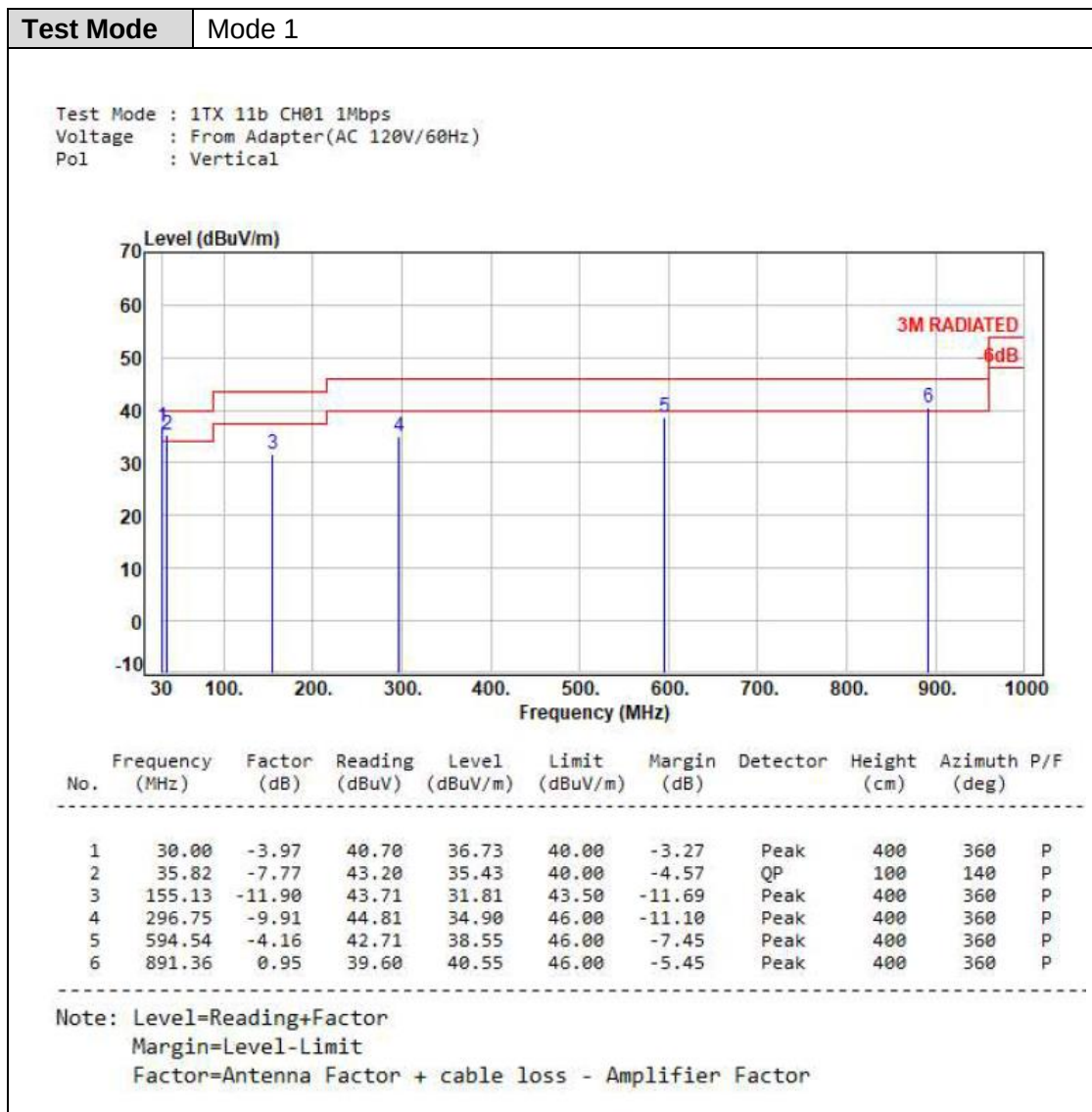




6.4 Test Result and Data (9KHz ~ 30MHz)

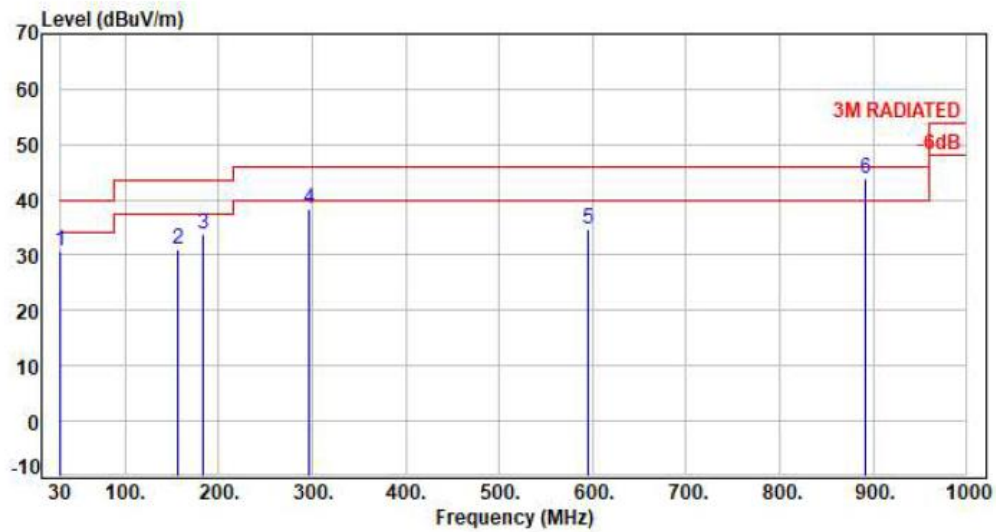
The 9kHz - 30MHz spurious emission is under limit 20dB more.

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



**Test Mode** Mode 1

Test Mode : 1TX 11b CH01 1Mbps
Voltage : From Adapter(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	30.00	-3.97	34.86	30.89	40.00	-9.11	Peak	400	0	P
2	157.07	-12.07	43.12	31.05	43.50	-12.45	Peak	400	0	P
3	183.26	-12.75	46.56	33.81	43.50	-9.69	Peak	400	0	P
4	296.75	-9.91	48.35	38.44	46.00	-7.56	Peak	400	0	P
5	594.54	-4.16	38.92	34.76	46.00	-11.24	Peak	400	0	P
6	891.36	0.95	42.90	43.85	46.00	-2.15	QP	100	184	P

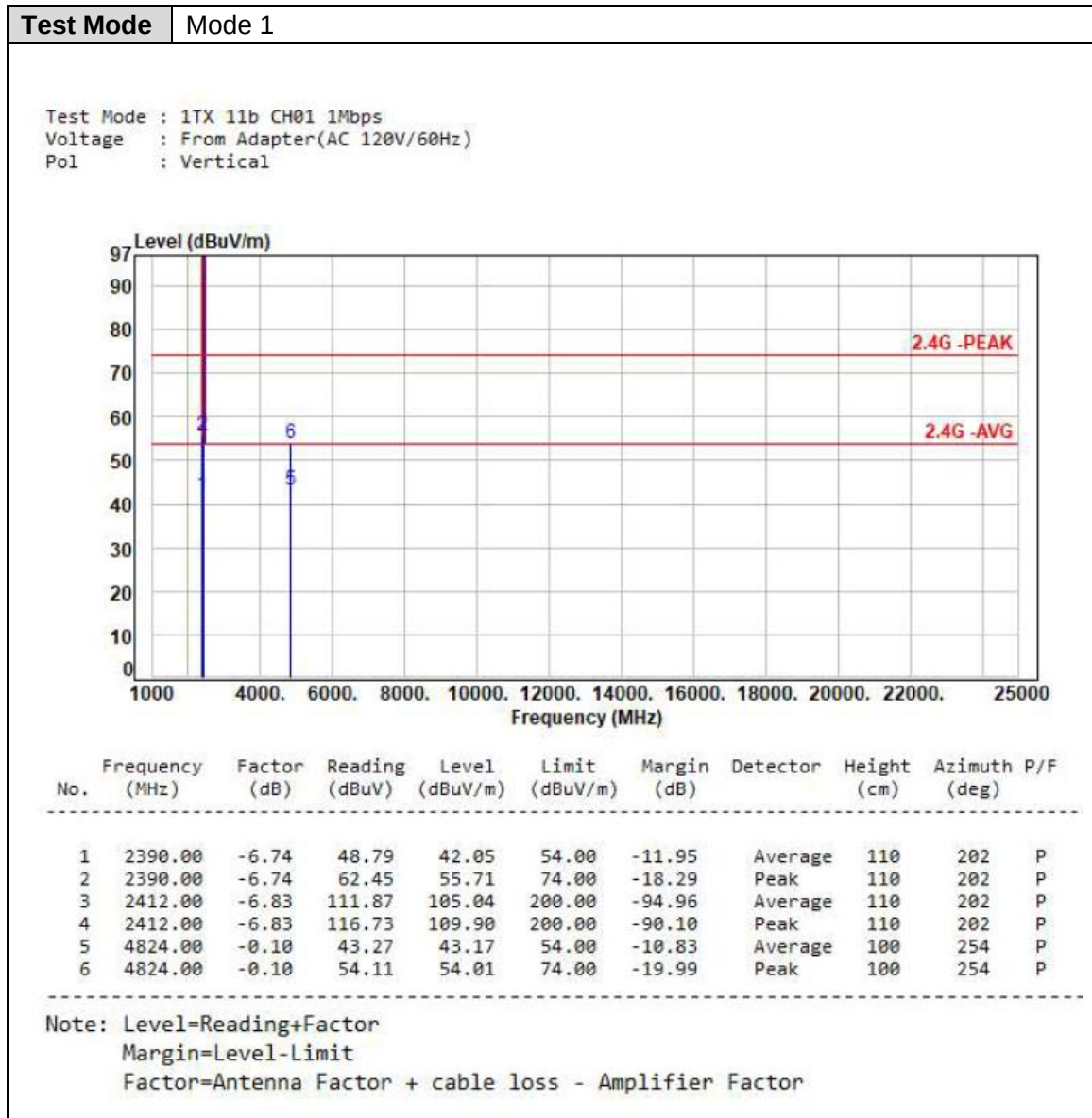
Note: Level=Reading+Factor

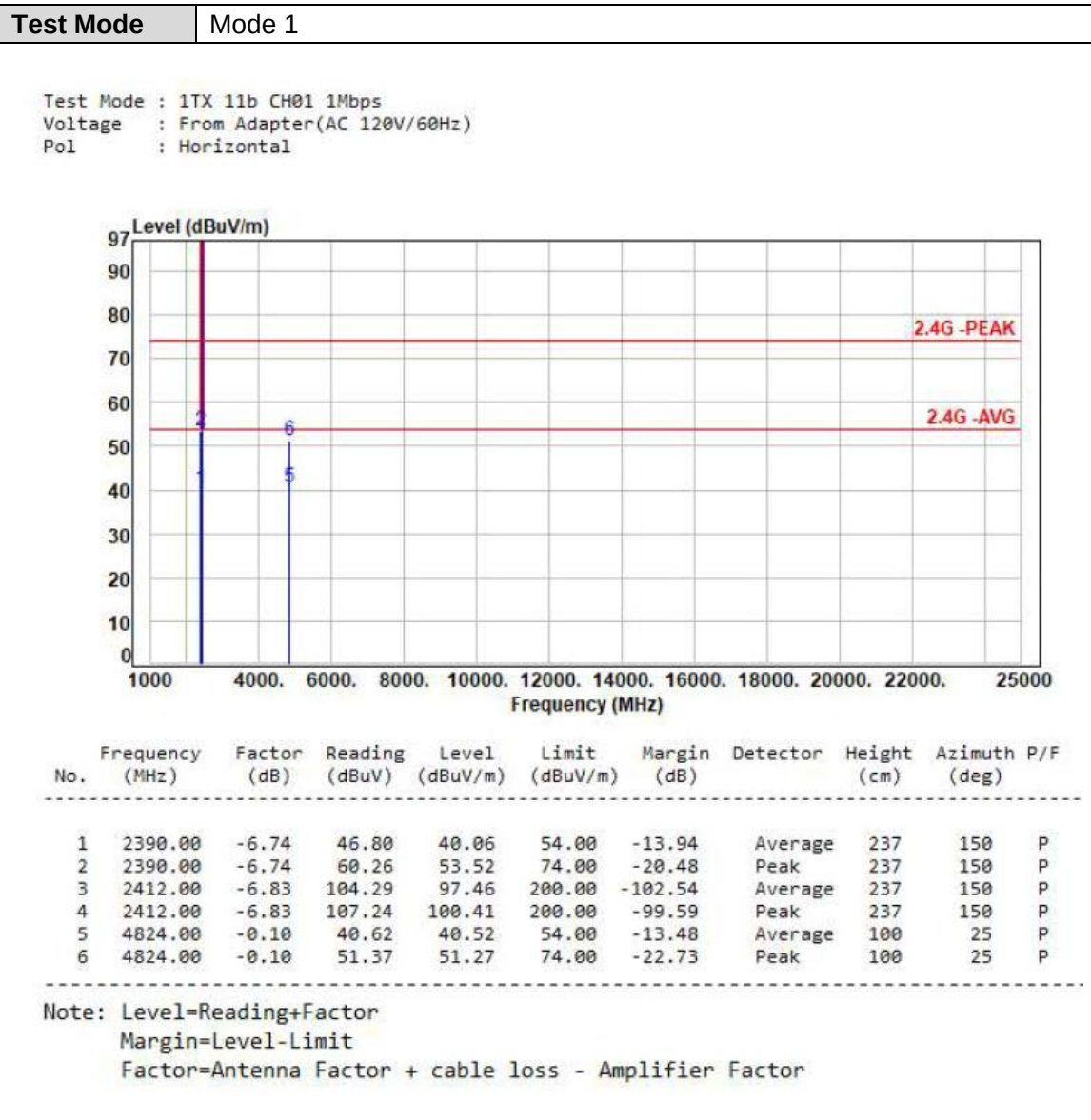
Margin=Level-Limit

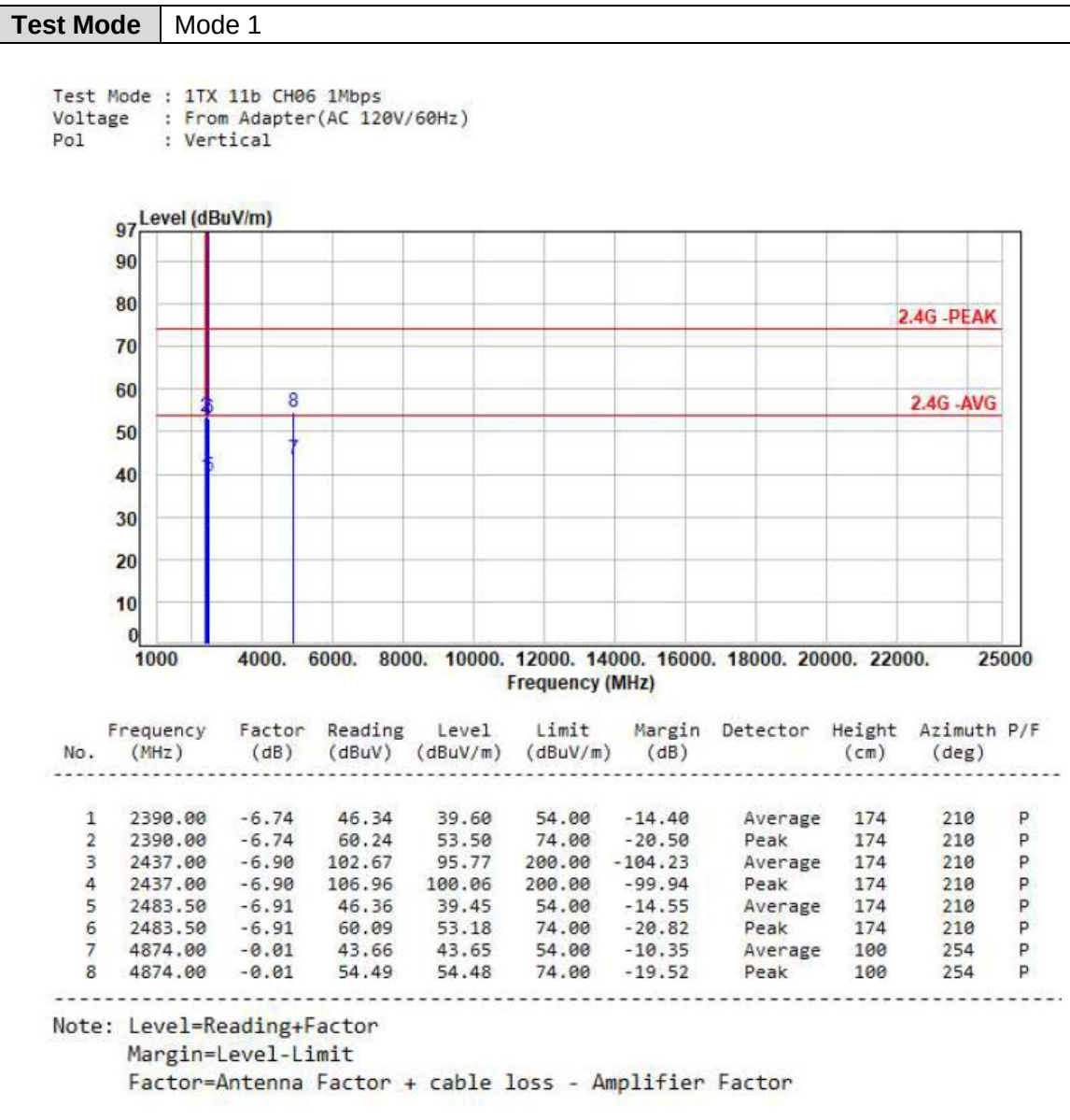
Factor=Antenna Factor + cable loss - Amplifier Factor

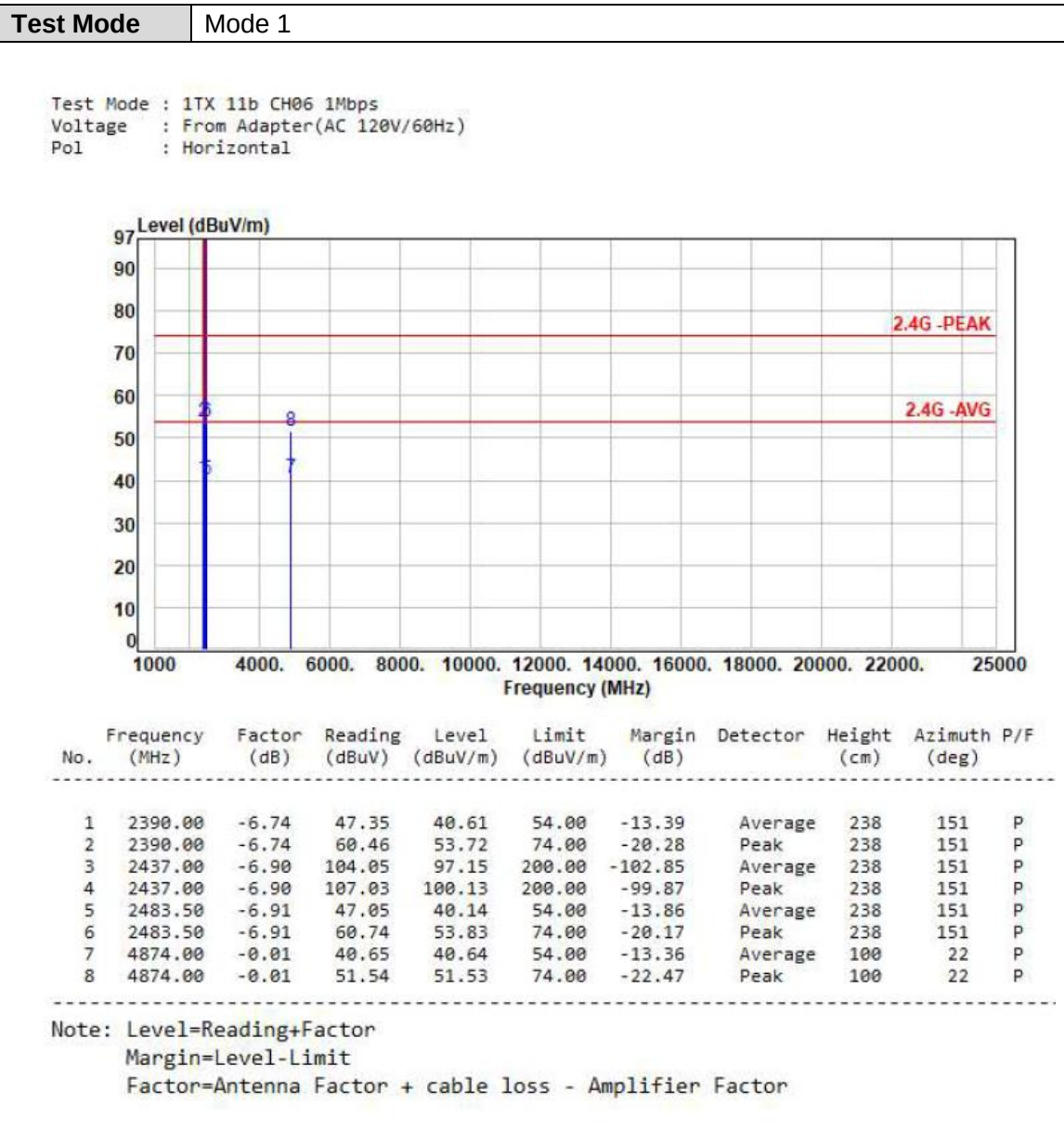


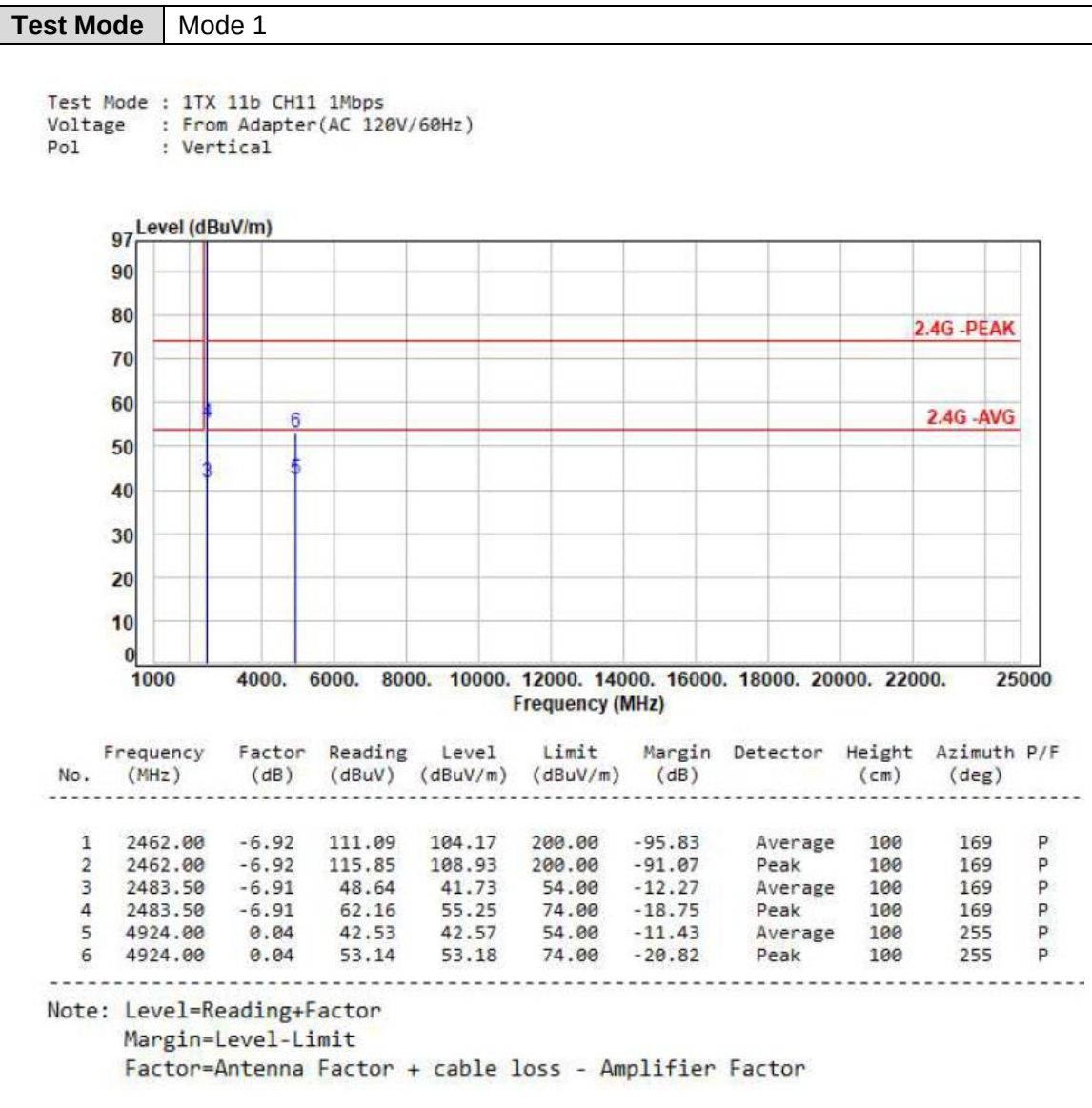
6.6 Test Result and Data (1GHz ~ 25GHz)

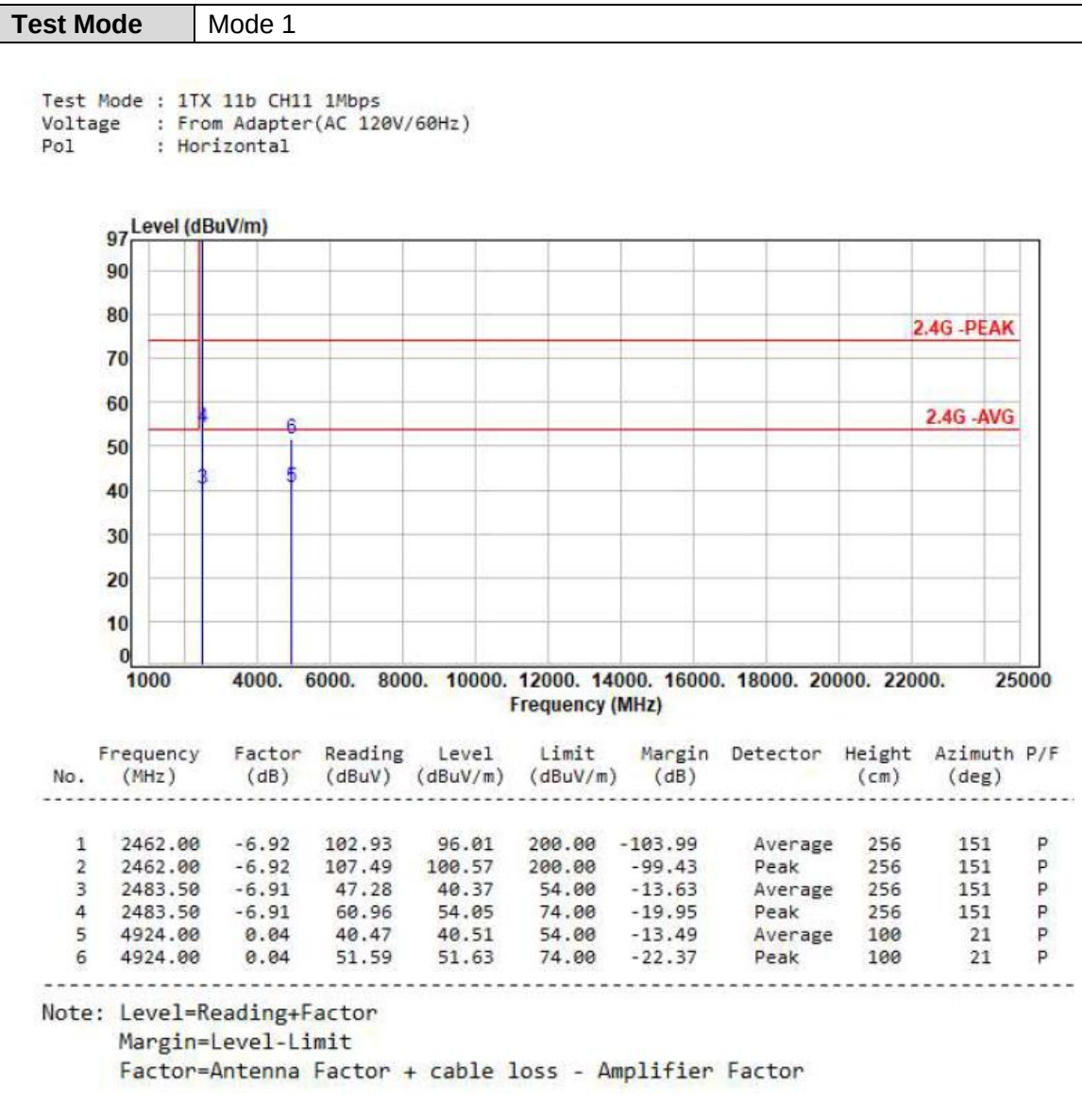






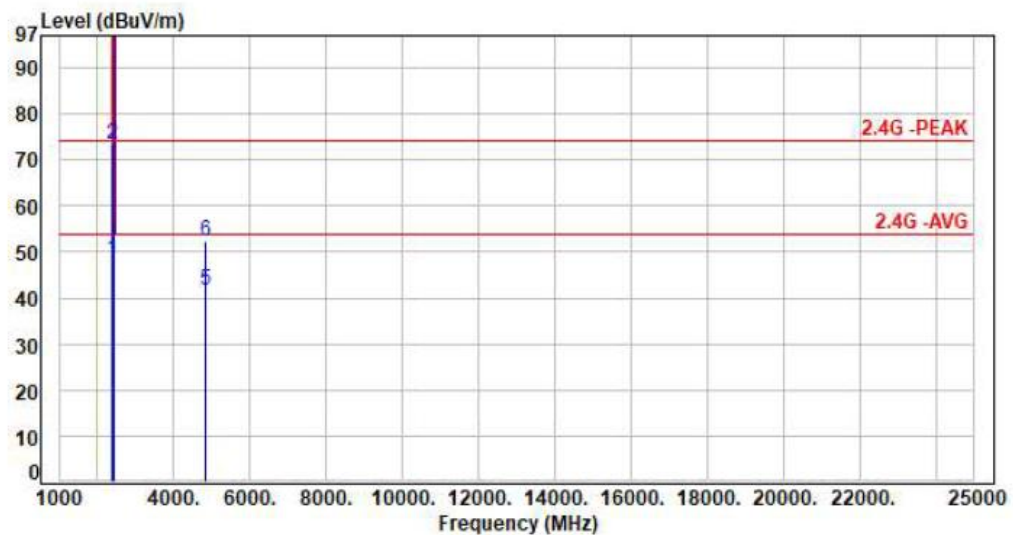






**Test Mode** Mode 2

Test Mode : 1TX 11g CH01 6Mbps
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

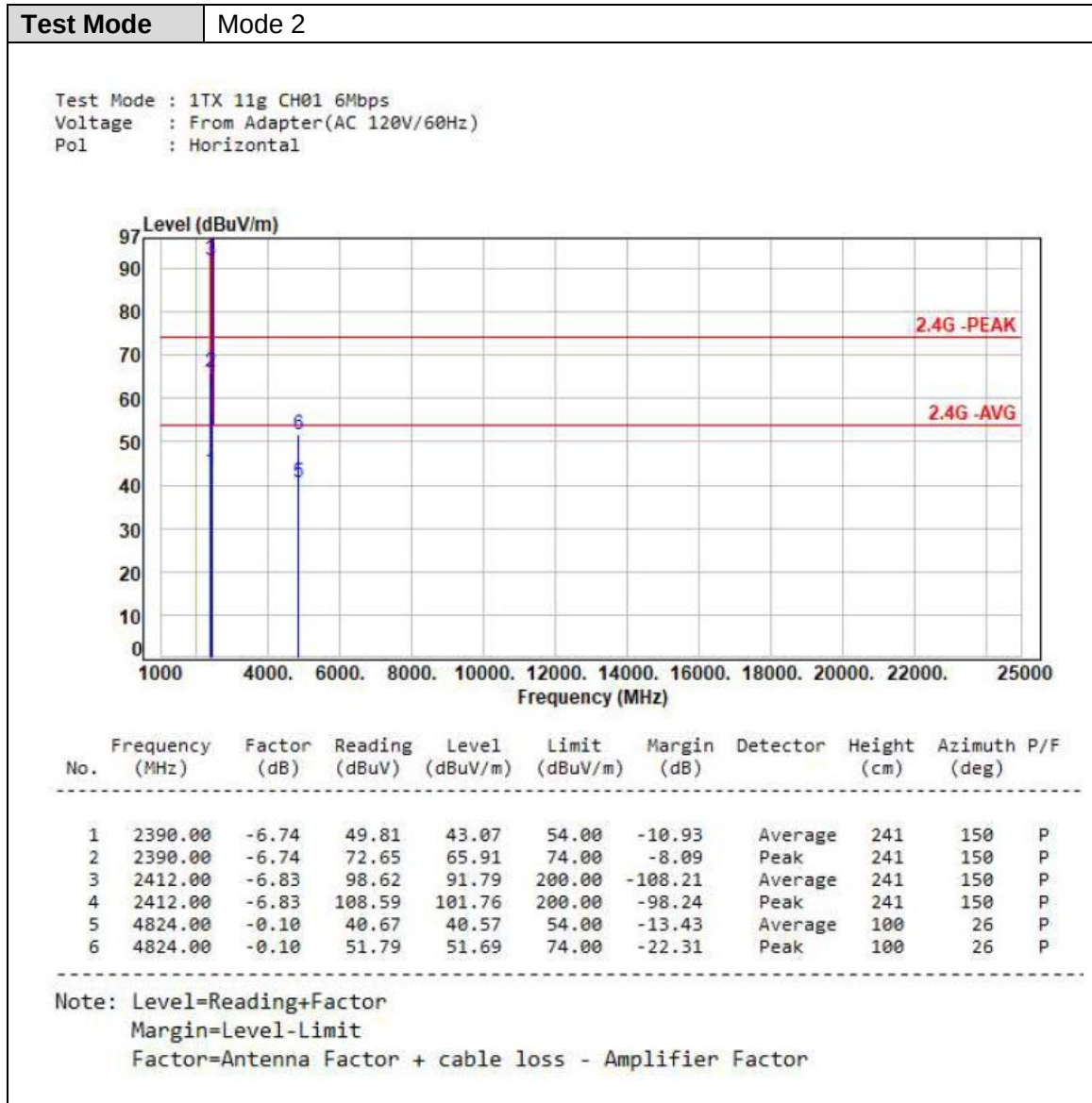


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.74	55.09	48.35	54.00	-5.65	Average	110	329	P
2	2390.00	-6.74	79.98	73.24	74.00	-0.76	Peak	110	329	P
3	2412.00	-6.83	106.49	99.66	200.00	-100.34	Average	110	329	P
4	2412.00	-6.83	116.13	109.30	200.00	-90.70	Peak	110	329	P
5	4824.00	-0.10	41.65	41.55	54.00	-12.45	Average	100	253	P
6	4824.00	-0.10	52.38	52.28	74.00	-21.72	Peak	100	253	P

Note: Level=Reading+Factor

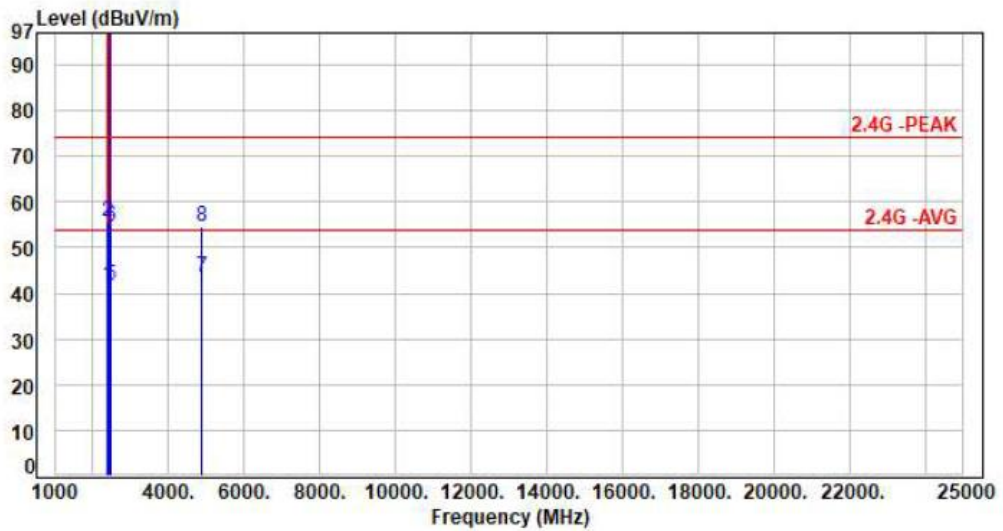
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



**Test Mode** Mode 2

Test Mode : 1TX 11g CH06 6Mbps
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

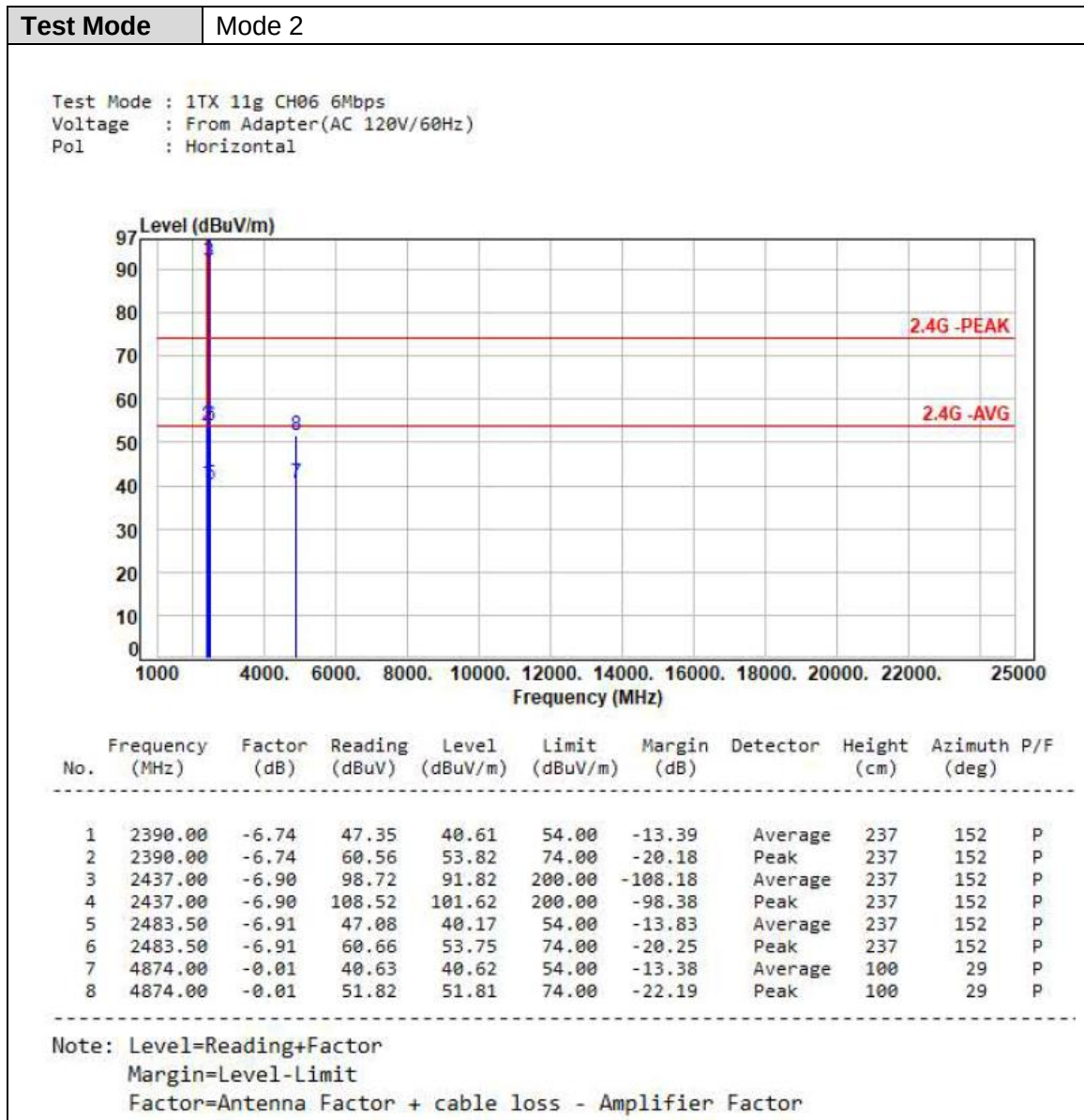


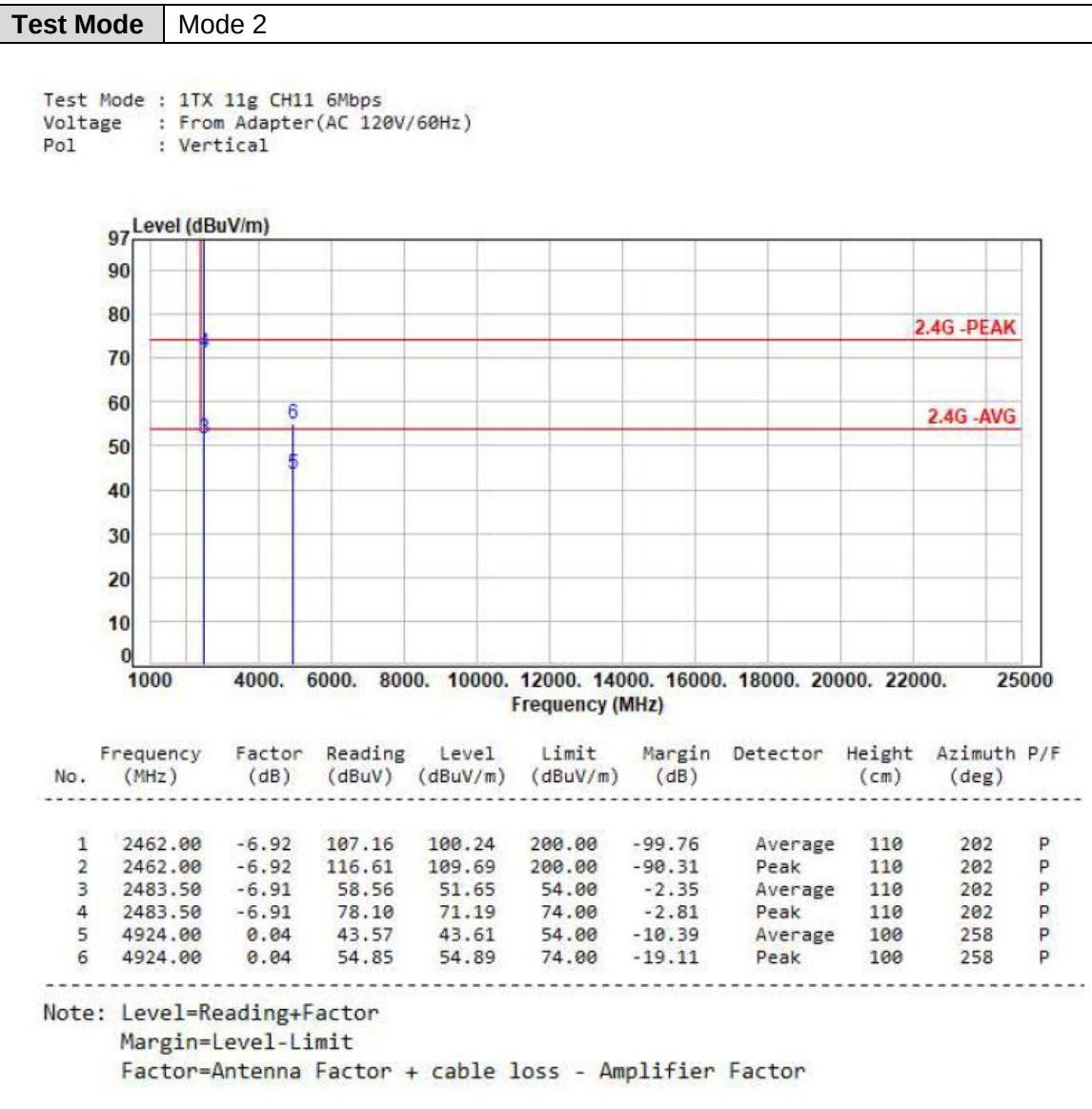
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.74	48.31	41.57	54.00	-12.43	Average	100	226	P
2	2390.00	-6.74	62.31	55.57	74.00	-18.43	Peak	100	226	P
3	2437.00	-6.90	107.70	100.80	200.00	-99.20	Average	100	226	P
4	2437.00	-6.90	117.34	110.44	200.00	-89.56	Peak	100	226	P
5	2483.50	-6.91	48.46	41.55	54.00	-12.45	Average	100	226	P
6	2483.50	-6.91	61.67	54.76	74.00	-19.24	Peak	100	226	P
7	4874.00	-0.01	43.60	43.59	54.00	-10.41	Average	100	253	P
8	4874.00	-0.01	54.71	54.70	74.00	-19.30	Peak	100	253	P

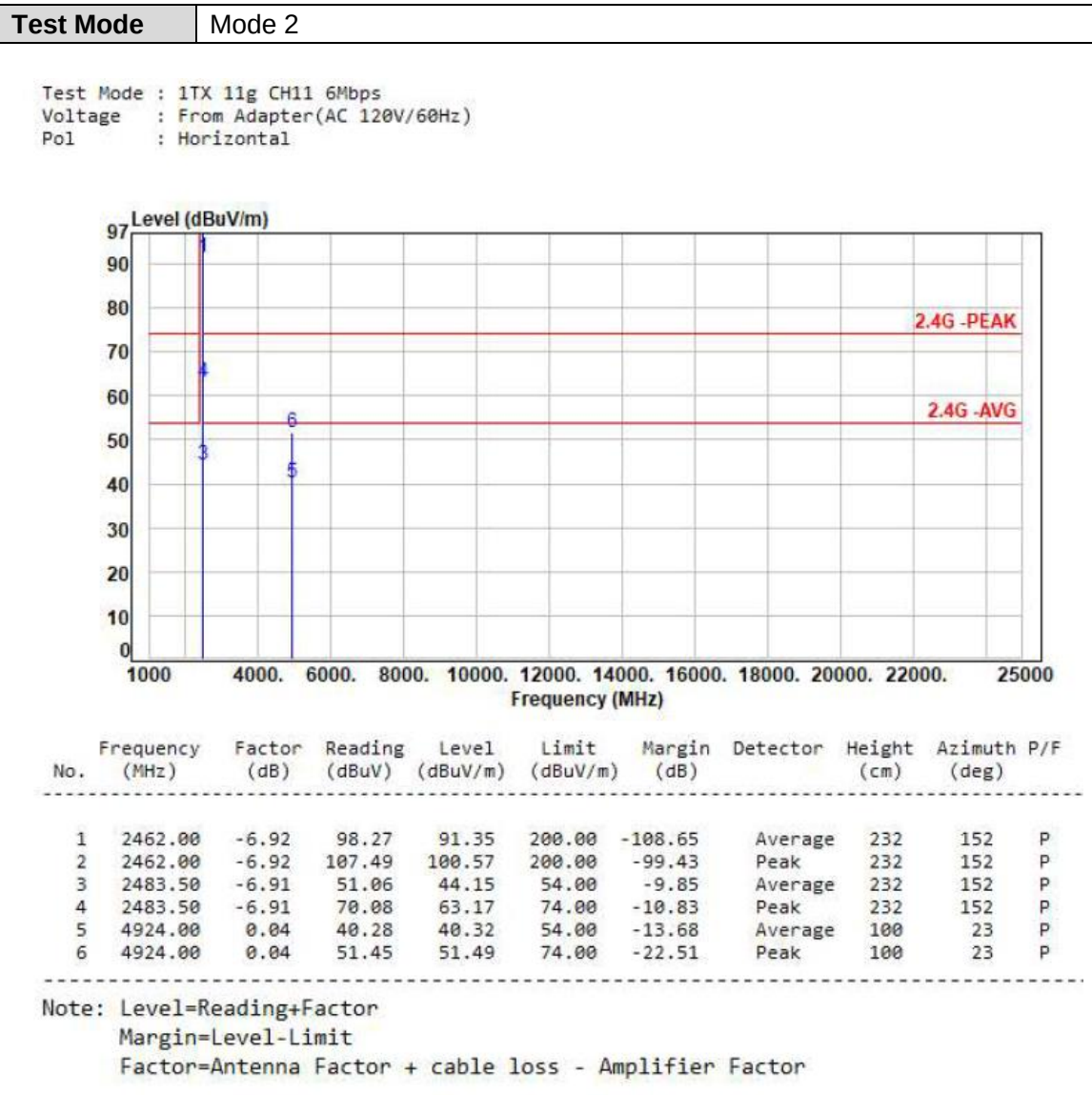
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

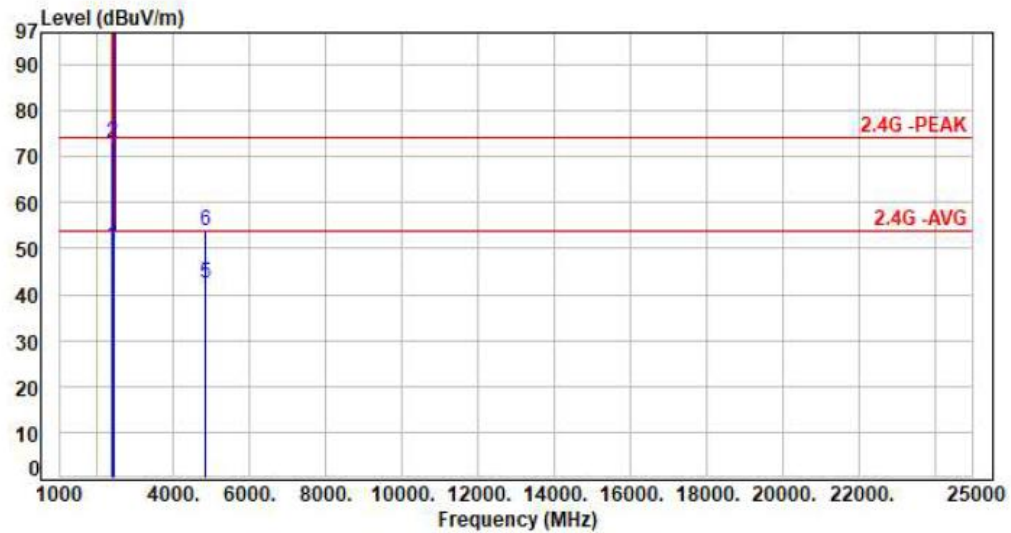






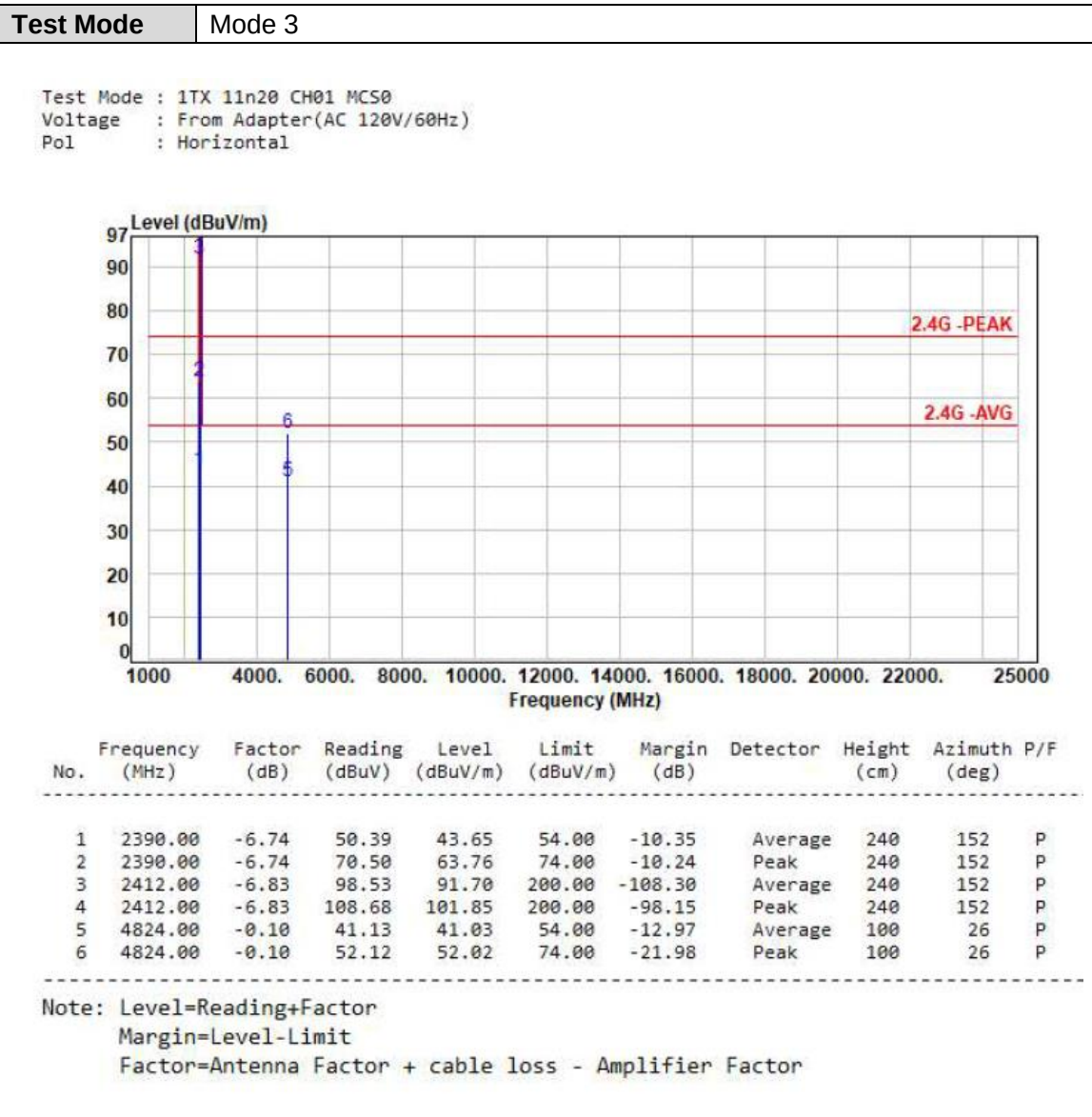
**Test Mode** Mode 3

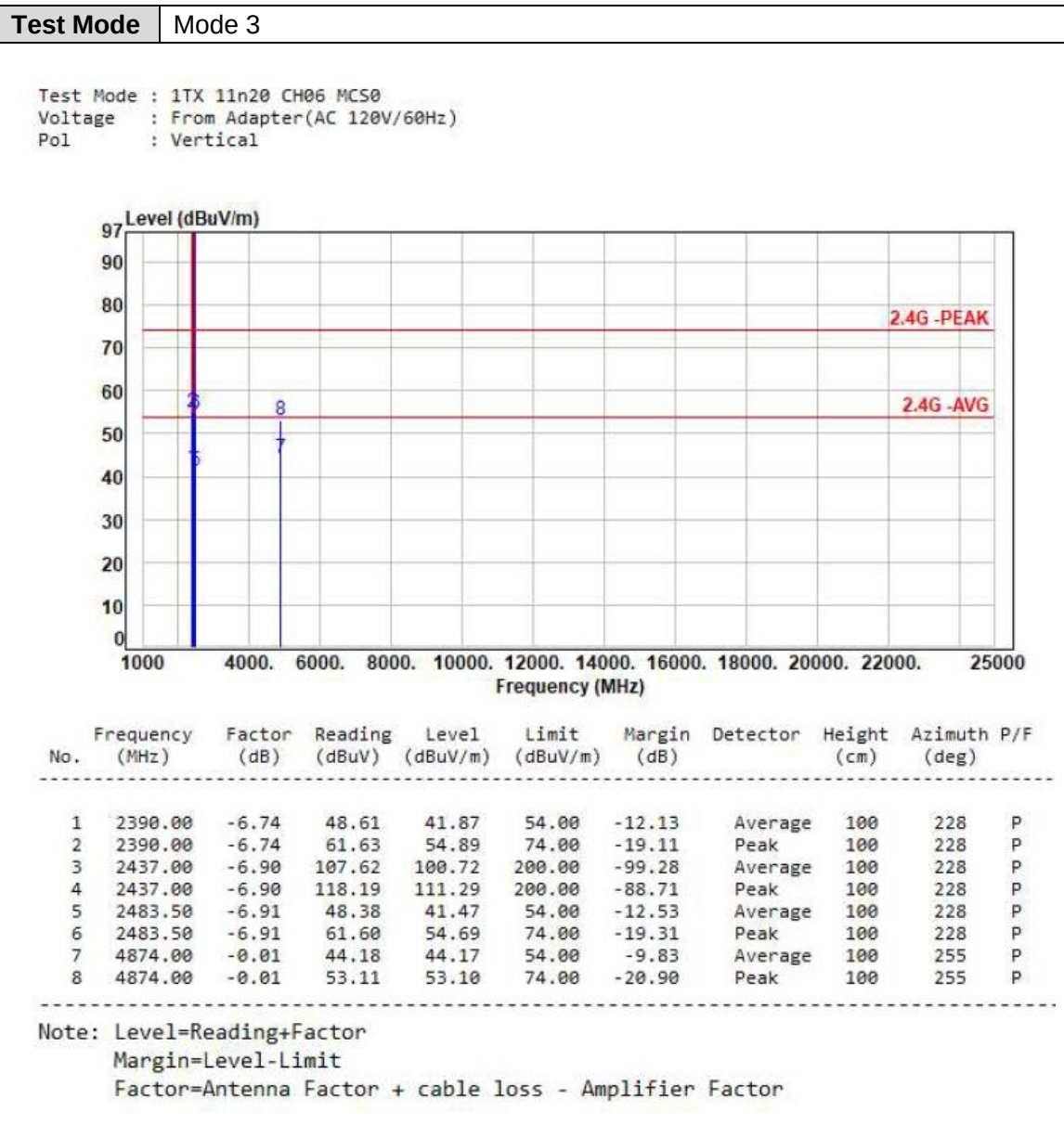
Test Mode : 1TX 11n20 CH01 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

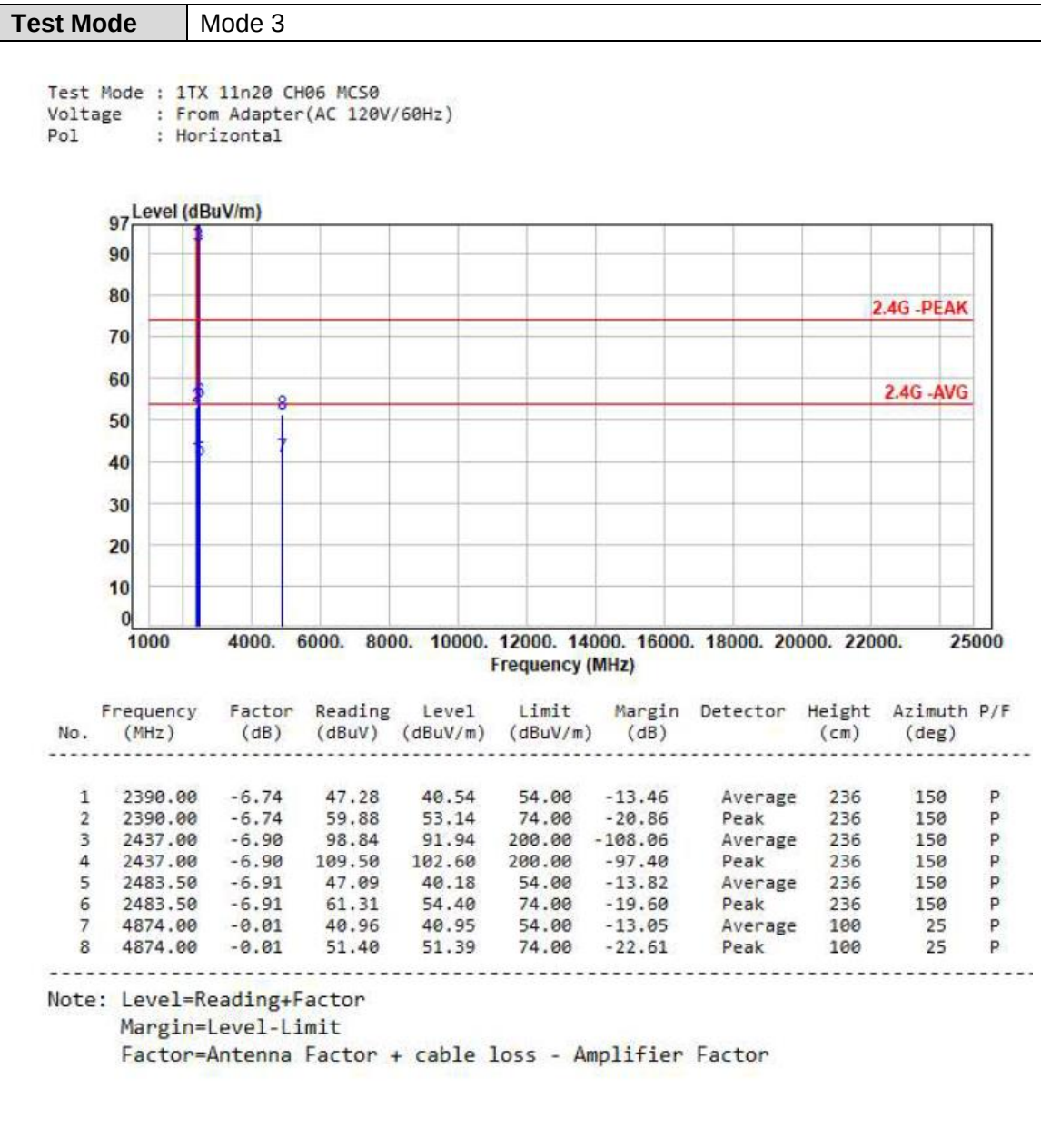


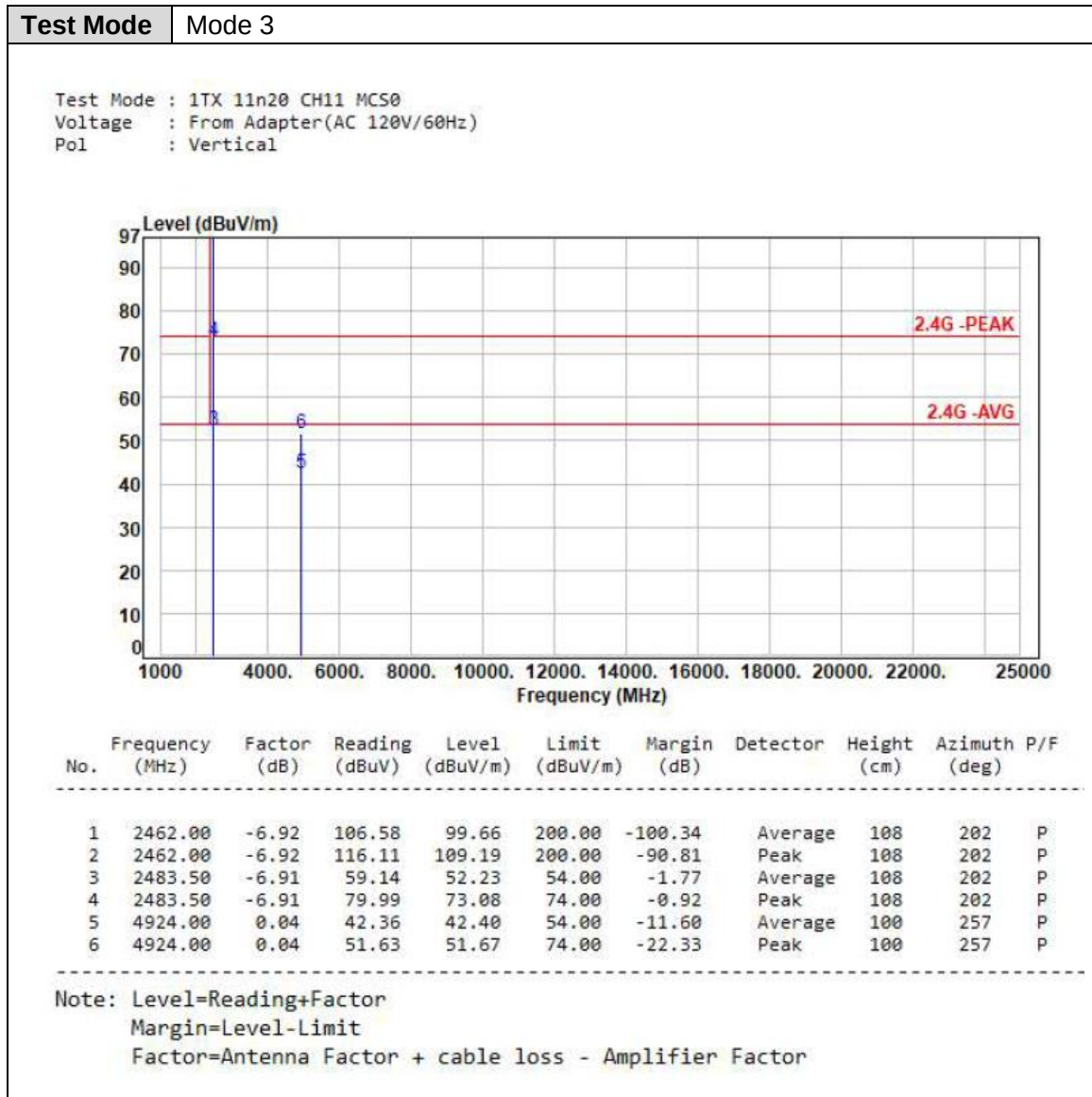
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.74	57.24	50.50	54.00	-3.50	Average	110	329	P
2	2390.00	-6.74	79.92	73.18	74.00	-0.82	Peak	110	329	P
3	2412.00	-6.83	106.64	99.81	200.00	-100.19	Average	110	329	P
4	2412.00	-6.83	116.79	109.96	200.00	-90.04	Peak	110	329	P
5	4824.00	-0.10	42.70	42.60	54.00	-11.40	Average	100	254	P
6	4824.00	-0.10	53.91	53.81	74.00	-20.19	Peak	100	254	P

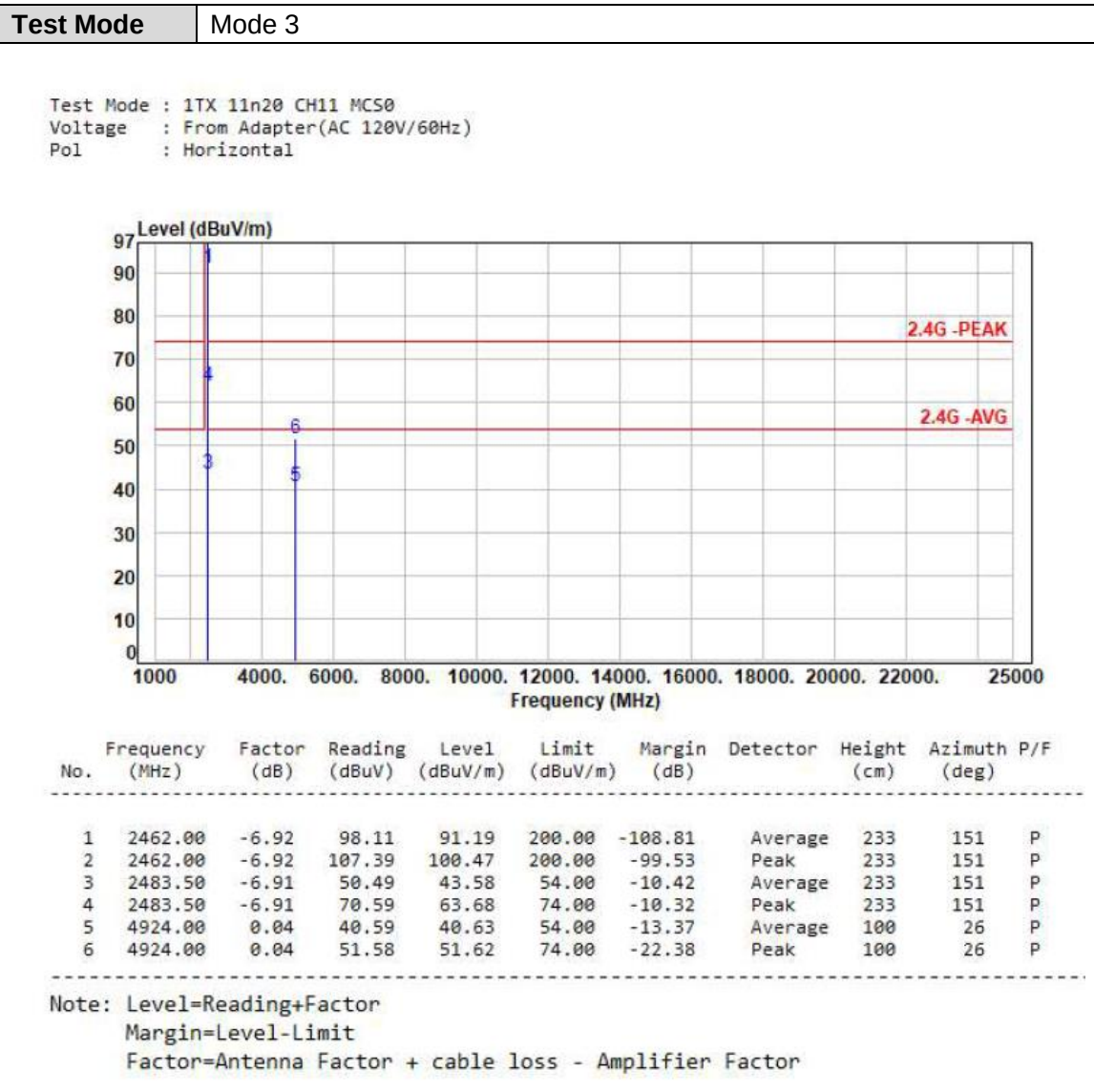
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

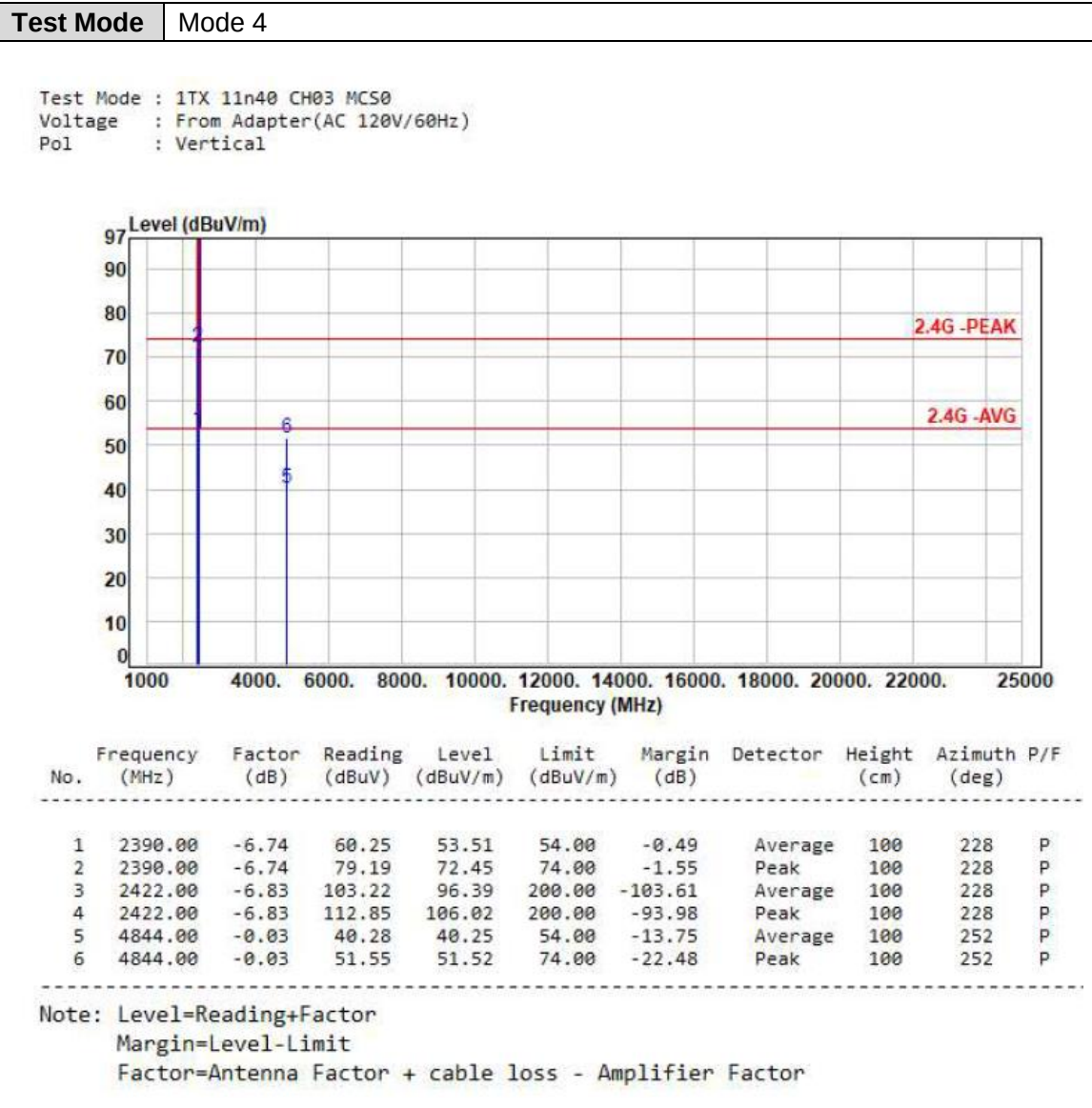


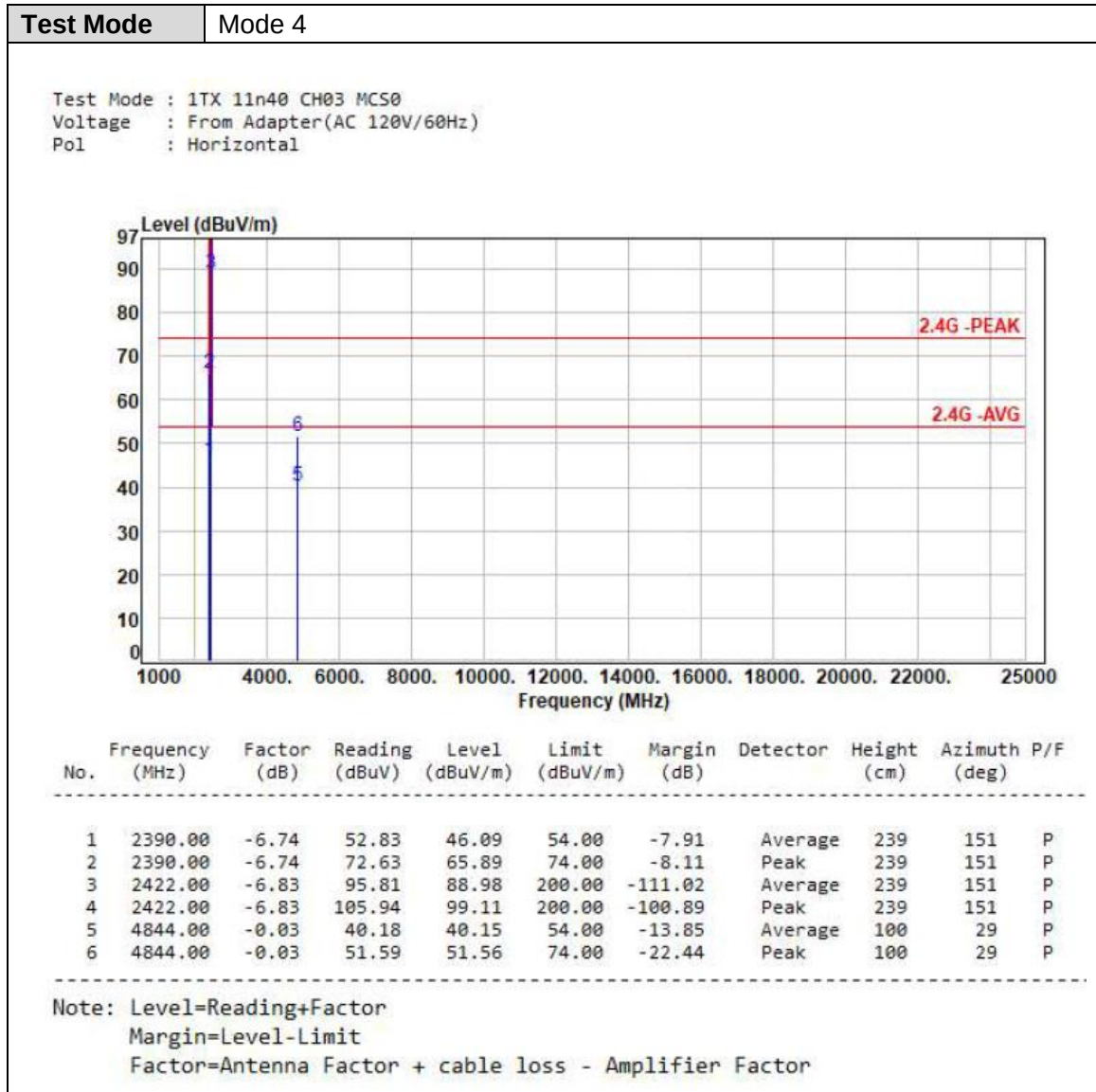






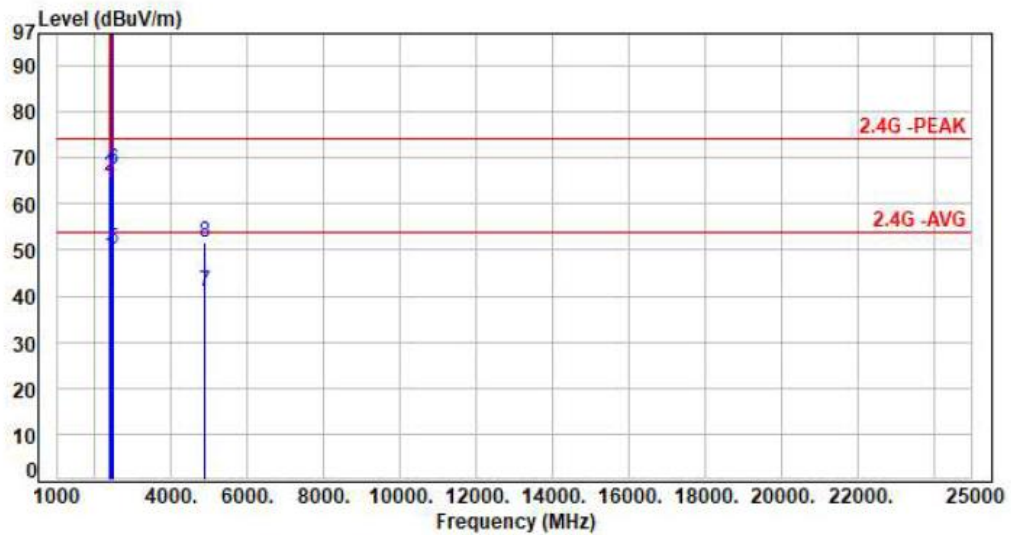






**Test Mode** Mode 4

Test Mode : 1TX 11n40 CH06 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

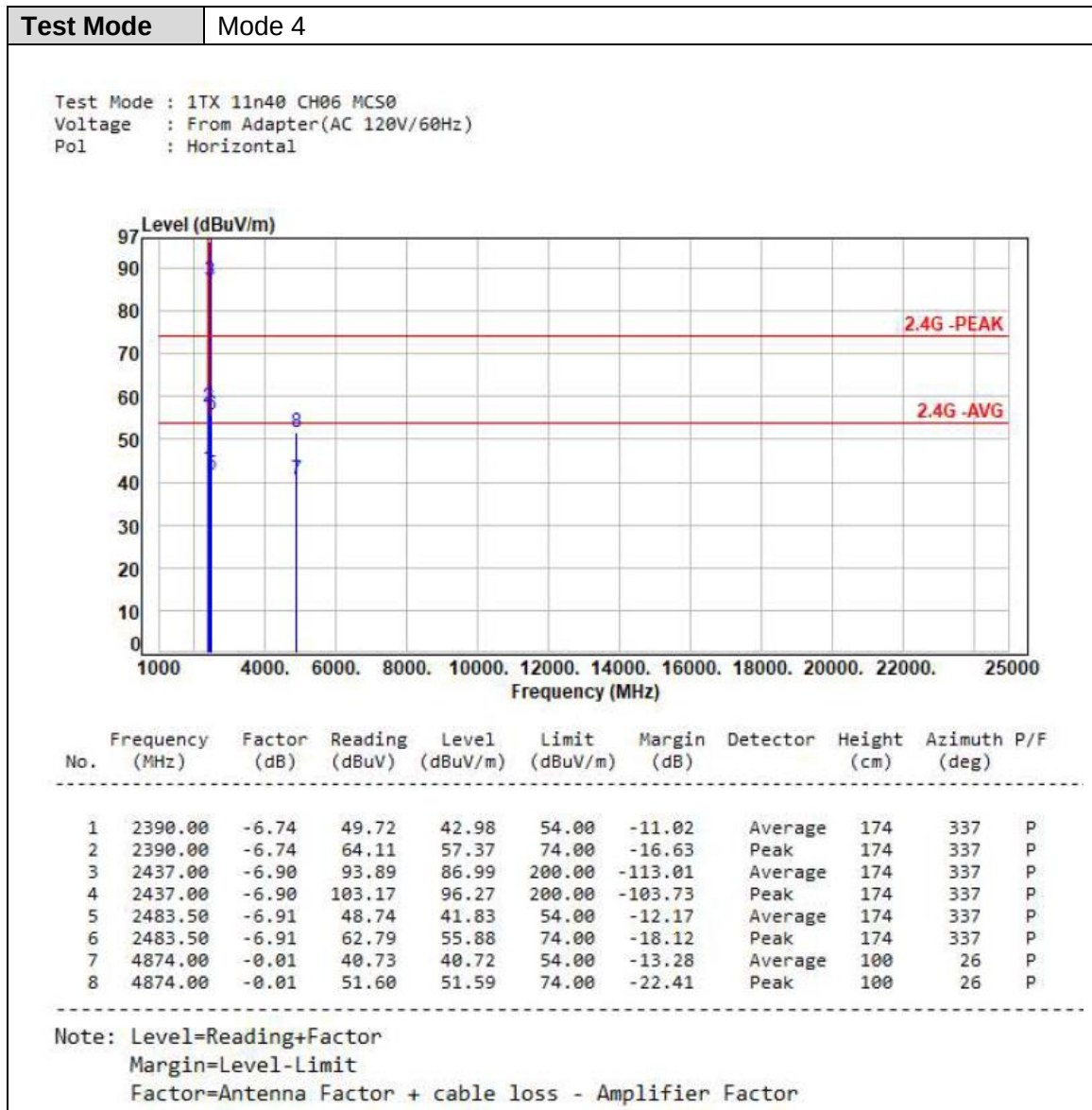


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-6.74	55.52	48.78	54.00	-5.22	Average	100	227	P
2	2390.00	-6.74	72.62	65.88	74.00	-8.12	Peak	100	227	P
3	2437.00	-6.90	104.43	97.53	200.00	-102.47	Average	100	227	P
4	2437.00	-6.90	114.58	107.68	200.00	-92.32	Peak	100	227	P
5	2483.50	-6.91	56.94	50.03	54.00	-3.97	Average	100	227	P
6	2483.50	-6.91	74.40	67.49	74.00	-6.51	Peak	100	227	P
7	4874.00	-0.01	41.13	41.12	54.00	-12.88	Average	100	253	P
8	4874.00	-0.01	51.68	51.67	74.00	-22.33	Peak	100	253	P

Note: Level=Reading+Factor

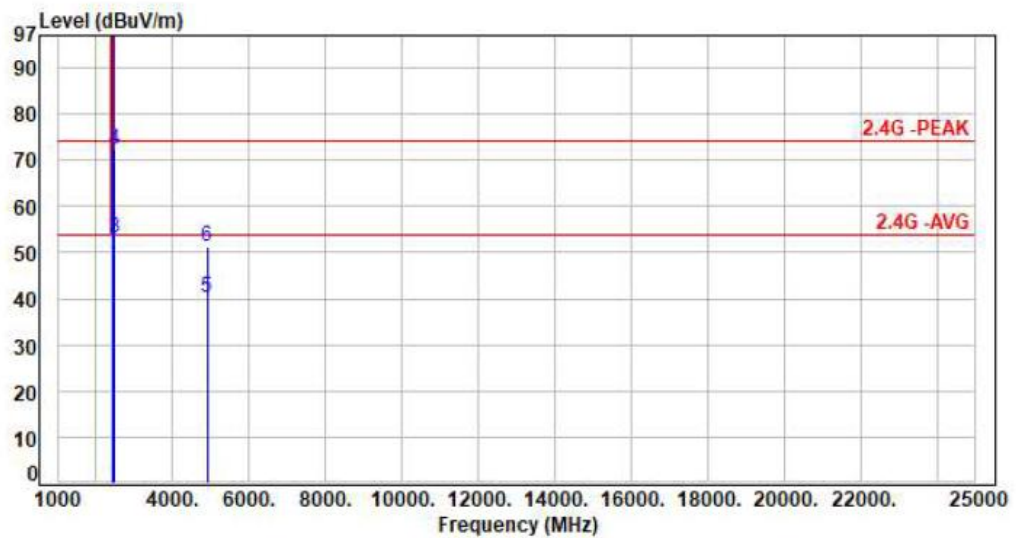
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



**Test Mode** Mode 4

Test Mode : 1TX 11n40 CH09 MCS0
Voltage : From Adapter(AC 120V/60Hz)
Pol : Vertical

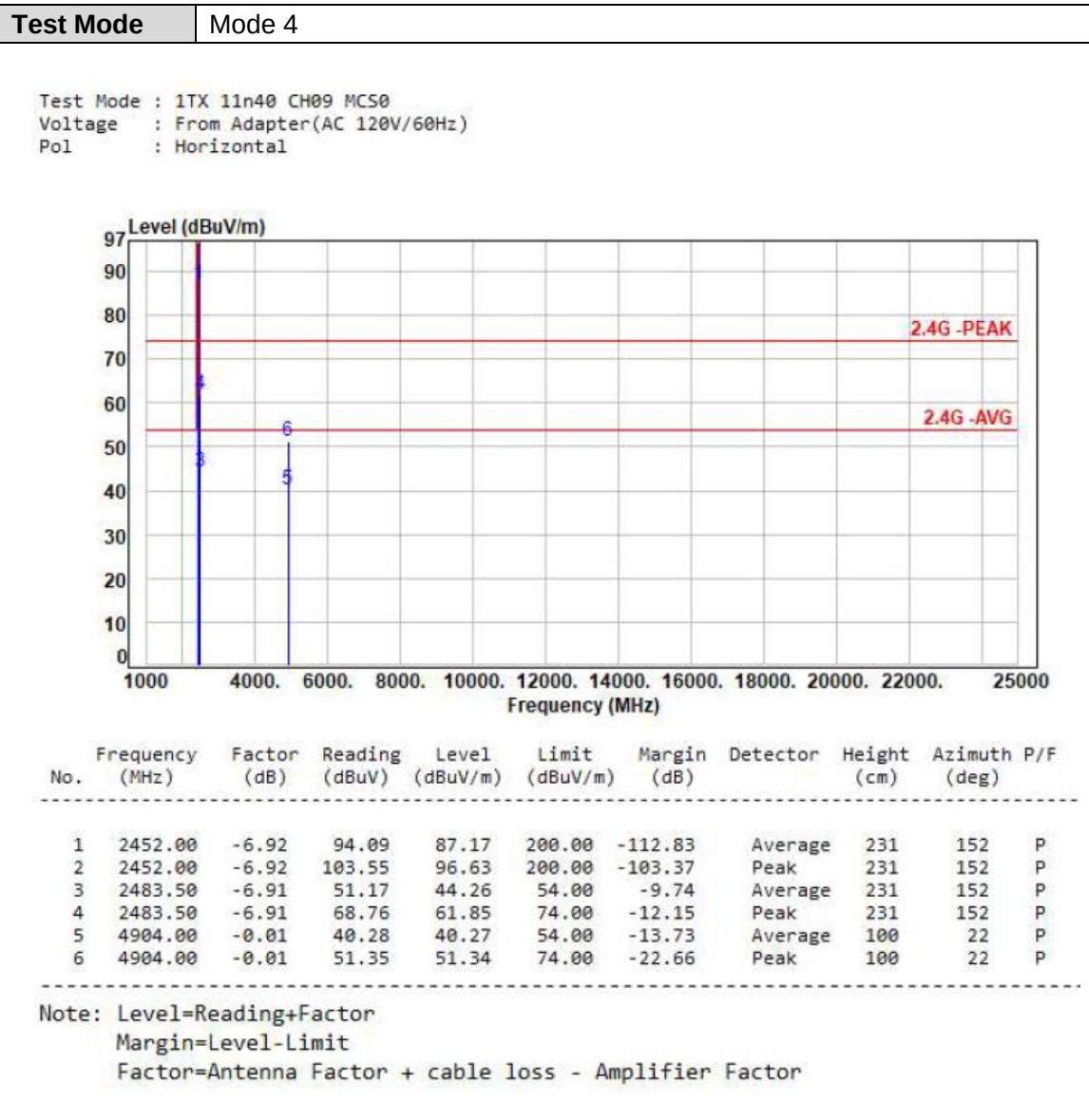


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-6.92	102.40	95.48	200.00	-104.52	Average	100	226	P
2	2452.00	-6.92	112.44	105.52	200.00	-94.48	Peak	100	226	P
3	2483.50	-6.91	60.05	53.14	54.00	-0.86	Average	100	226	P
4	2483.50	-6.91	79.23	72.32	74.00	-1.68	Peak	100	226	P
5	4904.00	-0.01	40.15	40.14	54.00	-13.86	Average	100	259	P
6	4904.00	-0.01	51.29	51.28	74.00	-22.72	Peak	100	259	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 – 5.250
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