



# 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. 01, 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 .....9
  - 2.4. Description of Test System..... 10
  - 2.5. General Information of Test..... 11
  - 2.6. Measurement Uncertainty ..... 11
- 3. Test Equipment and Ancillaries Used for Tests ..... 12
- 4. Antenna Requirements ..... 14
  - 4.1. Standard Applicable ..... 14
  - 4.2. Antenna Construction and Directional Gain..... 14
- 5. Test of AC Power Line Conducted Emission ..... 15
  - 5.1. Test Limit ..... 15
  - 5.2. Test Procedures ..... 15
  - 5.3. Typical Test Setup ..... 16
  - 5.4. Test Result and Data..... 17
  - 5.5. Test Photographs ..... 19
- 6. Test of Spurious Emission (Radiated)..... 20
  - 6.1. Test Limit ..... 20
  - 6.2. Test Procedures ..... 21
  - 6.3. Typical Test Setup ..... 22
  - 6.4. Test Result and Data (9kHz ~ 30MHz)..... 23
  - 6.5. Test Result and Data (30MHz ~ 1GHz) ..... 23
  - 6.6. Test Result and Data (1GHz ~ 40GHz)..... 25
  - 6.7. Restricted Bands of Operation ..... 109
  - 6.8. Test Photographs (30MHz ~ 1GHz) ..... 110
  - 6.9. Test Photographs (1GHz ~ 40GHz) ..... 111
- 7. On Time, Duty Cycle and Measurement methods ..... 113
  - 7.1. Test Limit ..... 113
  - 7.2. Test Procedure ..... 113
  - 7.3. Test Setup Layout ..... 113
  - 7.4. Test Result and Data..... 113
  - 7.5. Measurement Methods ..... 113
- 8. 6dB Bandwidth & 99% Occupied Bandwidth ..... 115
  - 8.1. Test Limit ..... 115
  - 8.2. Test Procedure ..... 115
  - 8.3. Test Setup Layout ..... 115
  - 8.4. Test Result and Data..... 116
- 9. 26dB Bandwidth & 99% Occupied Bandwidth ..... 125
  - 9.1. Test Limit ..... 125



- 9.2. Test Procedure ..... 125
- 9.3. Test Setup Layout ..... 125
- 9.4. Test Result and Data ..... 125
- 10. Average Power..... 149
  - 10.1. Test Limit ..... 149
  - 10.2. Test Procedure ..... 150
  - 10.3. Test Setup Layout ..... 150
  - 10.4. Test Result and Data..... 151
- 11. Power Spectral Density..... 156
  - 11.1. Test Limit ..... 156
  - 11.2. Test Procedure ..... 156
  - 11.3. Test Setup Layout ..... 156
  - 11.4. Test Result and Data..... 157



### History of this test report

Report No.	Issued Date	Description
24090226-TRFCC02	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 E §15.407**

**KDB 789033**

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

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

\*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

Band: 5150MHz-5250MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*36</b>	<b>5180</b>	44	5220
<b>*40</b>	<b>5200</b>	<b>*48</b>	<b>5240</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*38</b>	<b>5190</b>	<b>*46</b>	<b>5230</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*42</b>	<b>5210</b>

Band: 5250MHz-5350MHz

802.11a, 802.11n HT20, 802.11ac VHT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*52</b>	<b>5260</b>	<b>*60</b>	<b>5300</b>
56	5280	<b>*64</b>	<b>5320</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*54</b>	<b>5270</b>	<b>*62</b>	<b>5310</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*58</b>	<b>5290</b>

Band: 5470MHz-5725MHz

802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 802.11ac VHT40

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

802.11ac VHT80

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*106</b>	<b>5530</b>	<b>*122</b>	<b>5610</b>



Band 3: Straddle Channel

802.11a, 802.11n HT 20, 802.11ac VHT20

Channel	Frequency(MHz)
<b>*144</b>	<b>5720</b>

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)
<b>*142</b>	<b>5710</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*138</b>	<b>5690</b>

Band: 5725MHz-5850MHz

802.11a, 802.11n HT20, 802.11ac VHT20

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

802.11n HT40, 802.11ac VHT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*151</b>	<b>5755</b>	<b>*159</b>	<b>5795</b>

802.11ac VHT80

Channel	Frequency(MHz)
<b>*155</b>	<b>5775</b>

Note: Channels remarked \* are selected to perform test.





2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. An executive program, "rtwpriv command" under Windows 10 system was executed to transmit and receive data via WLAN.
- c. The following test modes were performed for the test:

<b>Conducted Emissions from the AC mains power ports</b>	
Test Mode 1	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: R0182-1201500US
Test Mode 3	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 240V/60Hz), Adapter: WB-18U12R
caused "Test Mode 2" generated the worst case, it was reported as the final data.	
<b>Radiated Emissions (30MHz ~ 1GHz)</b>	
Test Mode 1	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: R0182-1201500US
Test Mode 3	802.11ac VHT40 (13.5Mbps), 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.	
<b>Radiated Emissions (1GHz ~ 40GHz)</b>	
Test Mode 1	802.11a (6Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 2	802.11ac VHT20 (6.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 3	802.11ac VHT40 (13.5Mbps), TX Mode, Power from Adapter (AC 120V/60Hz), Adapter: WB-18U12R
Test Mode 4	802.11ac VHT80 (29.3Mbps), 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
802.11a	1TX
802.11n HT20	1TX
802.11n HT40	1TX
802.11ac VHT20	1TX
802.11ac VHT40	1TX
802.11ac VHT80	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 40,000MHz	
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Test Period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2024/09/24	25.5°C / 44%	Leon Huang
Radiated Emissions	3M03-NK	2024/09/20	23°C / 52%	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
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz



### 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
Spectrum Analyzer	R&S	FSP 40	100047	2024/03/01	2025/02/28
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19
Cable-0.5m (30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2023/10/12	2024/10/11
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Switch Box	Theda	1-4	TW5451159	NA	NA

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 15.407 (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	Dipole Antenna
Antenna Gain	5180-5240MHz: 2.37dBi 5260-5320MHz: 2.49dBi 5500-5700MHz: 3.64dBi 5745-5825MHz: 3.34dBi



## 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 $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

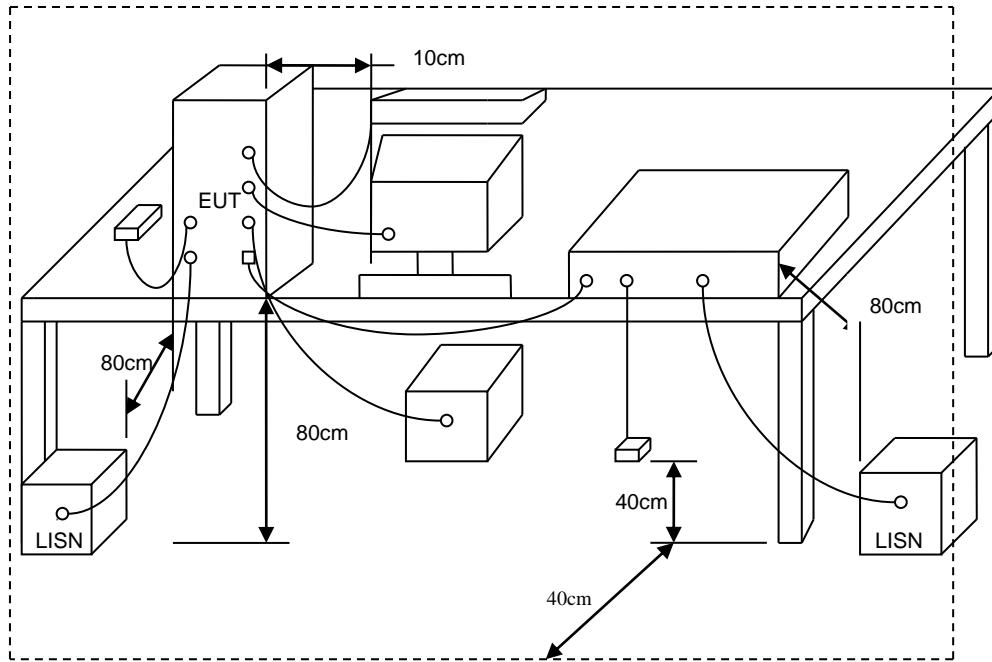
\*Decreases with the logarithm of the frequency.

### 5.2. Test Procedures

- a. 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.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



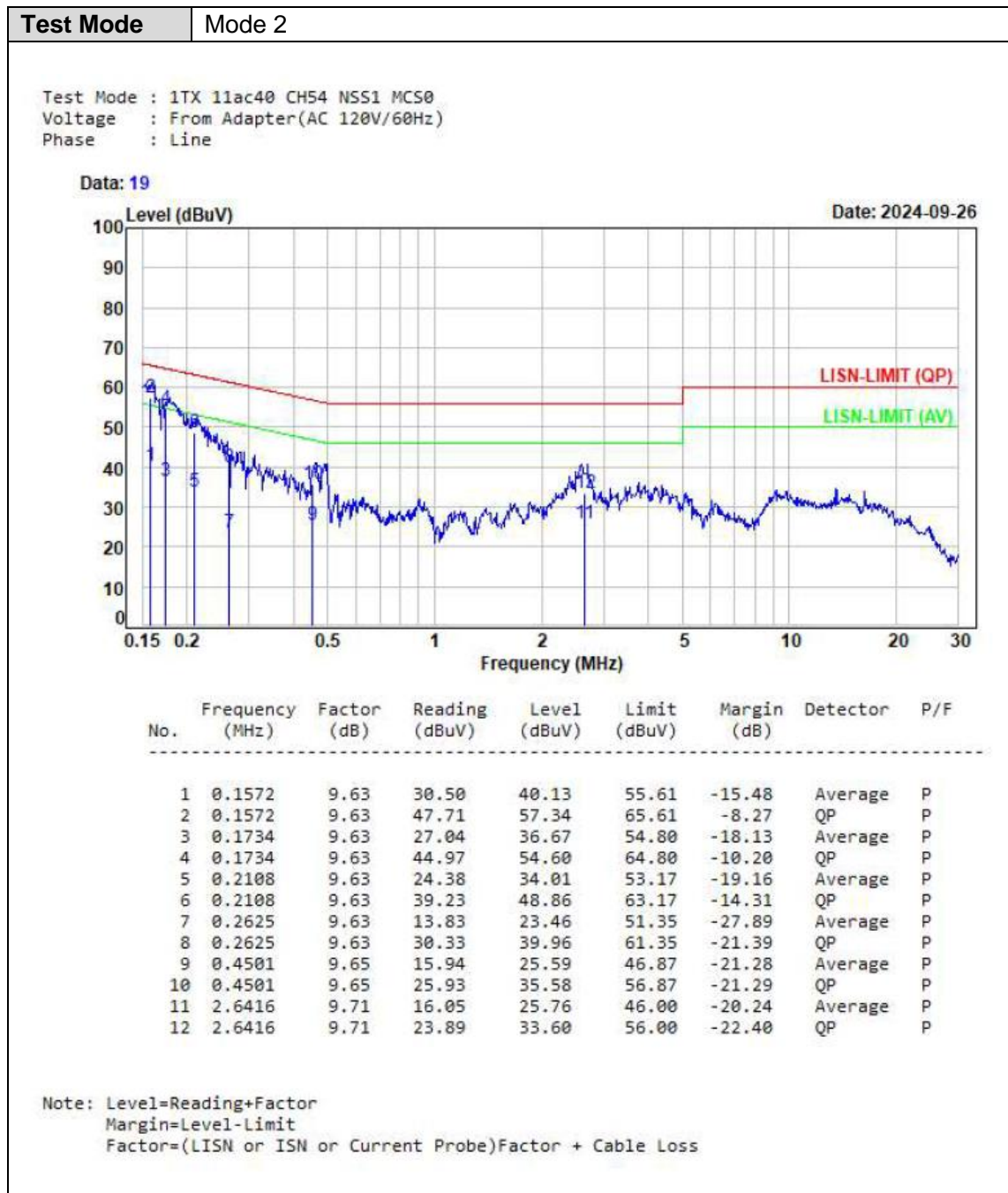
### 5.3. Typical Test Setup

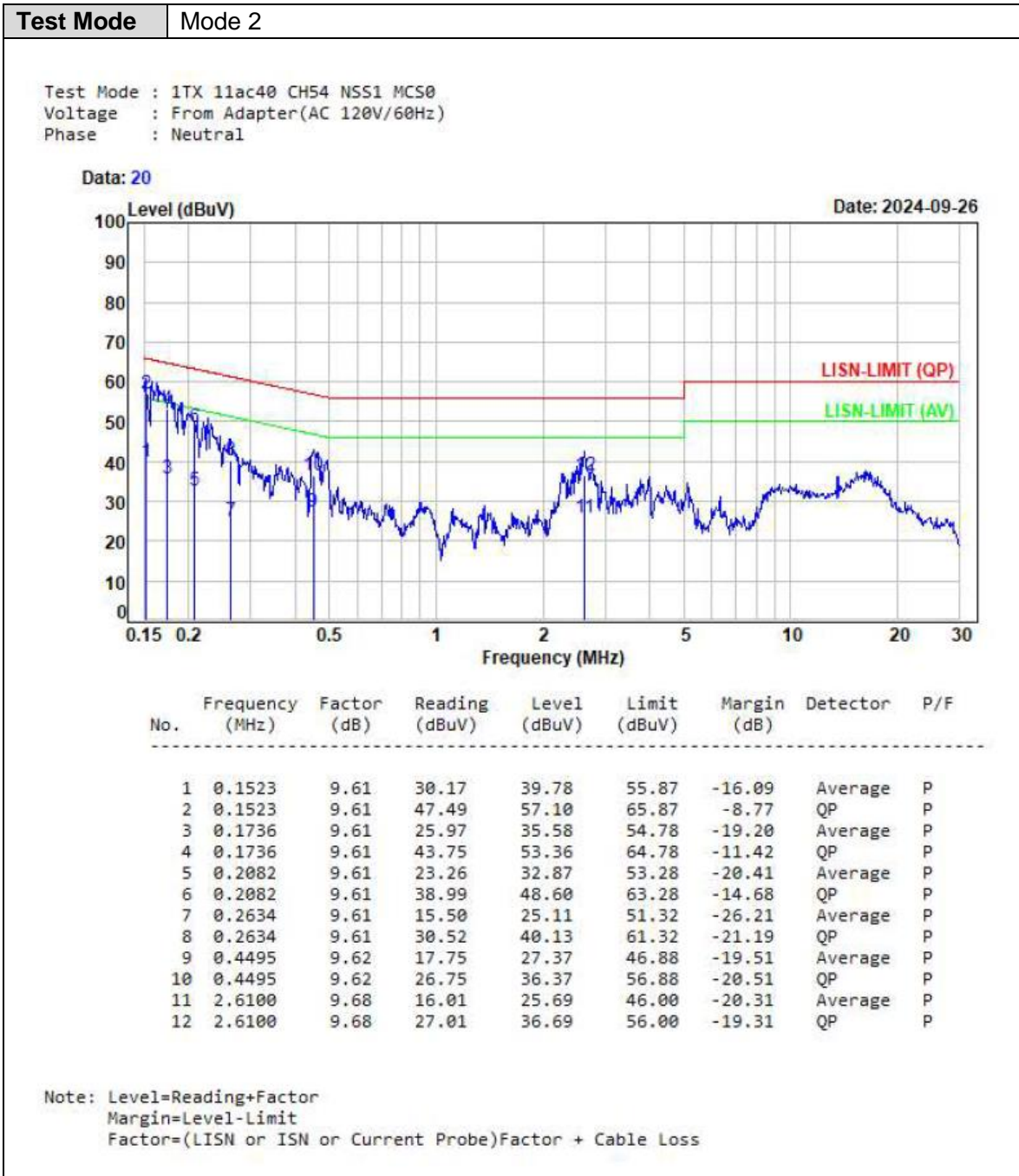






### 5.4. Test Result and Data







## 6. Test of Spurious Emission (Radiated)

### 6.1. Test Limit

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

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



## 6.2. Test Procedures

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

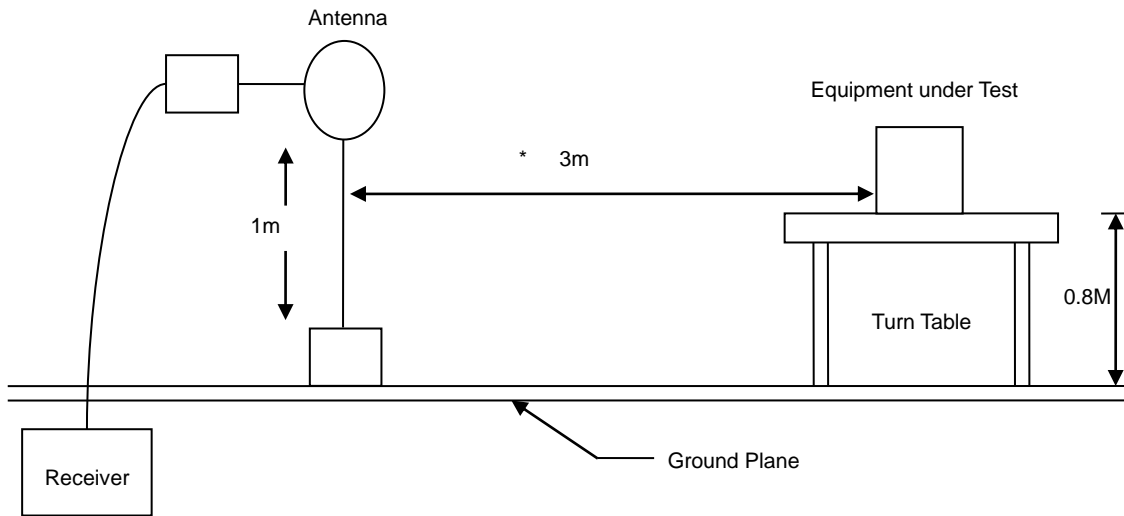
Note:

- 1.The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.  
(X-AXIS is the worst.)
- 2.Due to the test software function limit the operation band setting(200dBuV/m). There's no corresponding limitation in the actual test item.

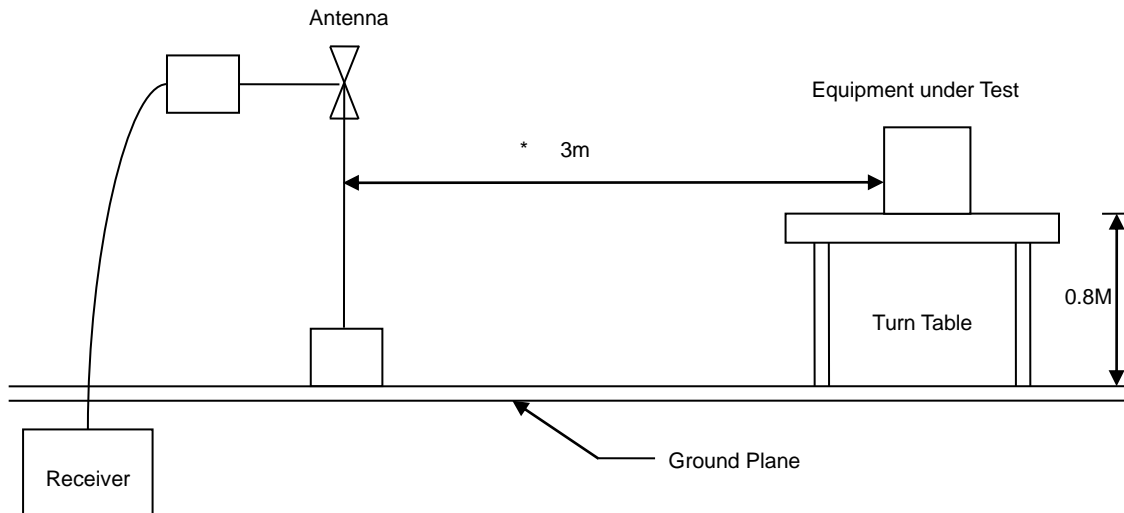


### 6.3. Typical Test Setup

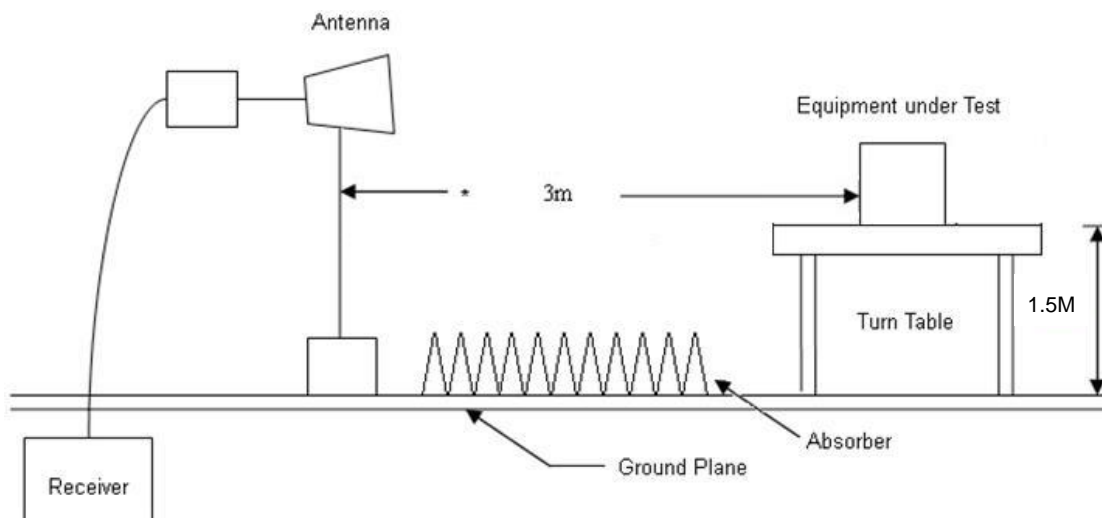
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

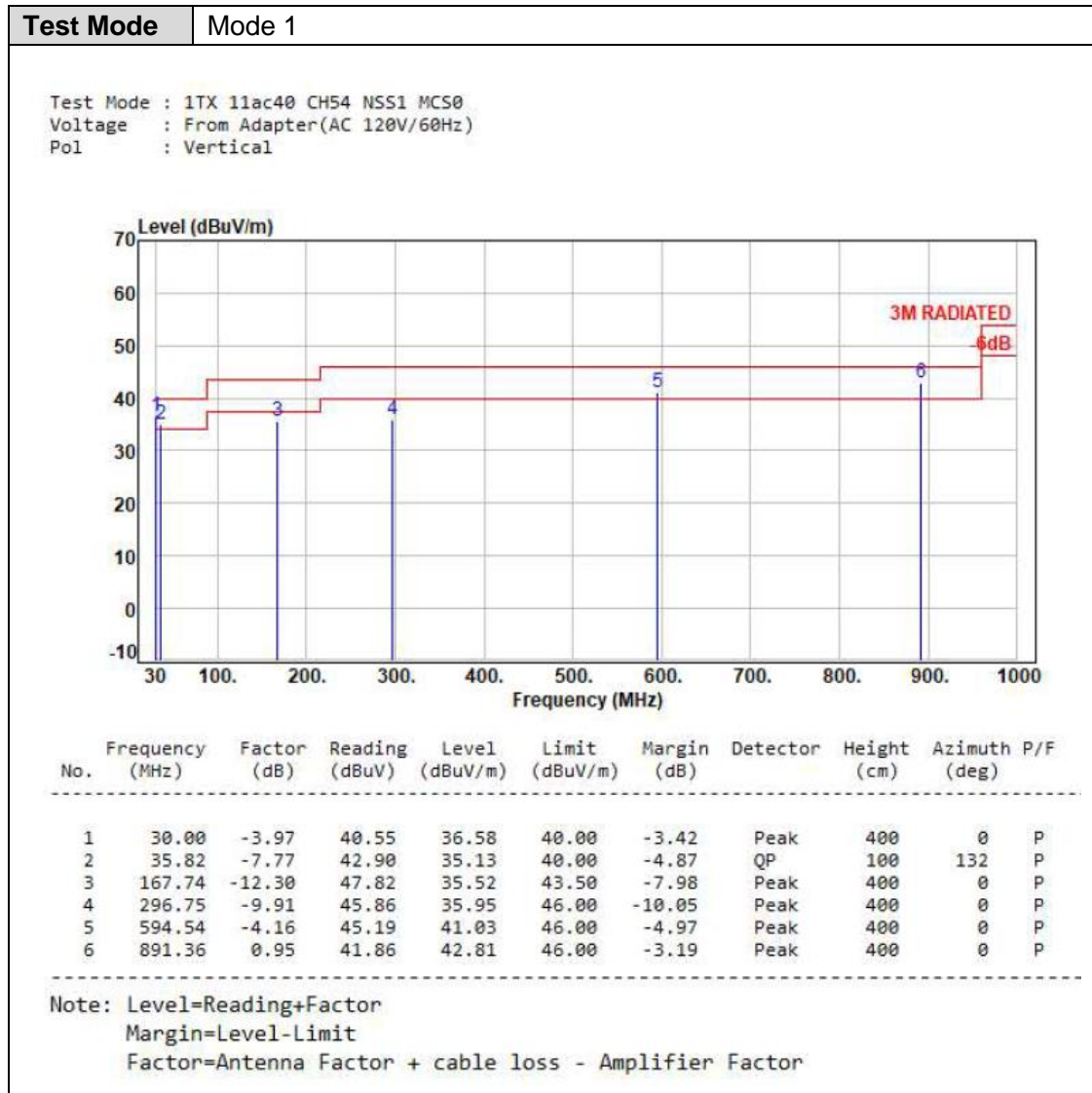




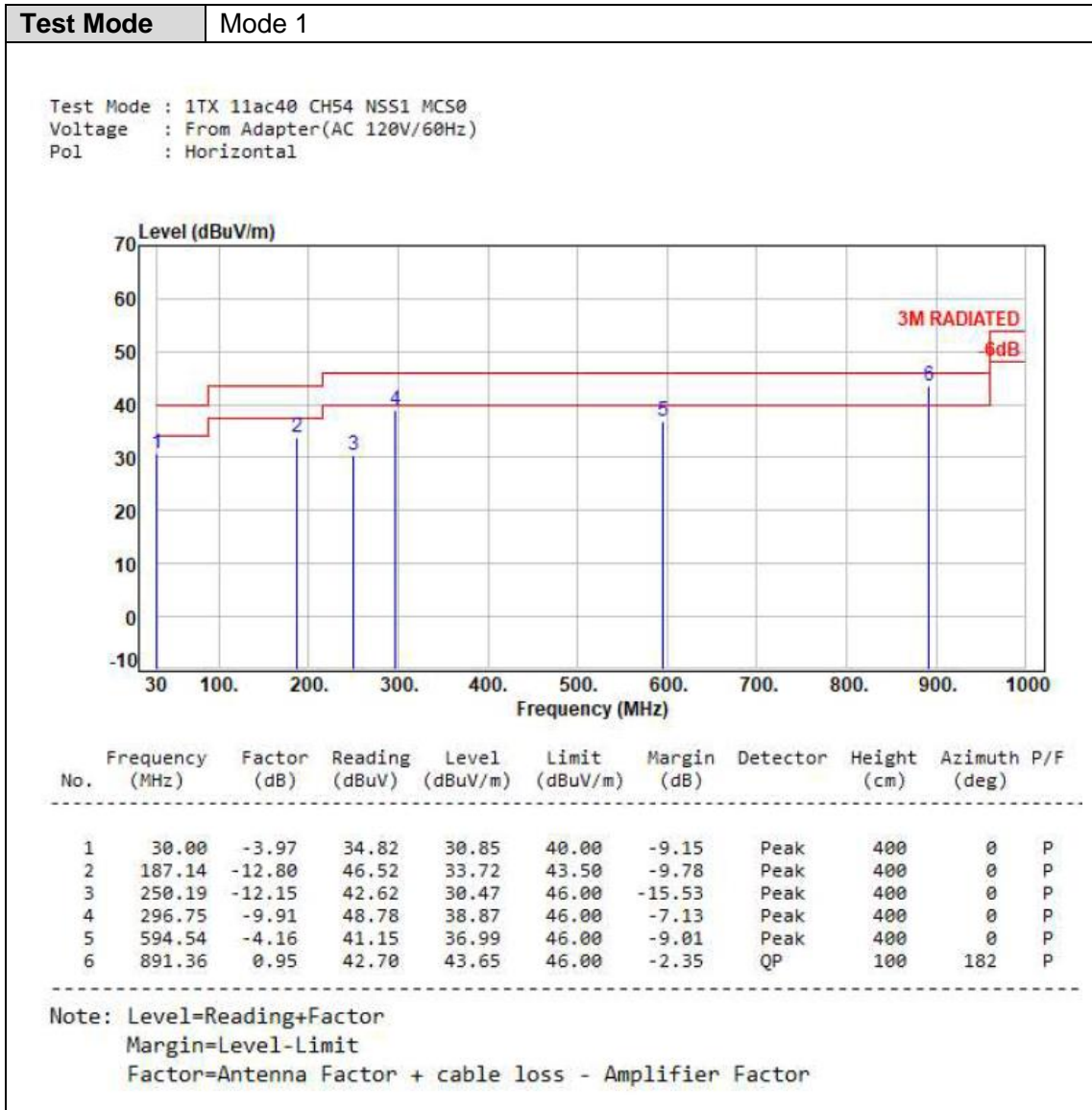
### 6.4. Test Result and Data (9kHz ~ 30MHz)

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 ~ 40GHz)

