

**FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 Issue 4**

TEST REPORT

For

WiFi Module

MODEL NUMBER: M2DU

REPORT NUMBER: 4792161431-1-RF-1

ISSUE DATE: May 12, 2026

**FCC ID:2BKAP-M2DU
IC:32905-M2DU**

Prepared for

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Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 12, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2020, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3) RSS-247 Clause 6.3.2	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 6.3.1 (a) RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2020, Clause 11.10.5	FCC Part 15.247 (e) RSS-247 Clause 6.3.1 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2020, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 6.6	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2020, Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 6.6 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

Note:

1. For FCC, ANSI C63.10:2020 + Cor.1:2023 is also considered for the corresponding test item which is needed.
2. For ISSED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 15 SUBPART C ISSED RSS-247 Issue 4> when <Simple Acceptance> decision rule is applied. Decision rule for statement of conformity: The measurement uncertainty is not taken into account for statement of conformity.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hefei Shiyan Electronic Technology Co., Ltd.
Address: No. 6621, Xiyou Road, Economic and Technological Development Zone, hefei, 230000 China

Manufacturer Information

Company Name: Hefei Shiyan Electronic Technology Co., Ltd.
Address: No. 6621, Xiyou Road, Economic and Technological Development Zone, hefei, 230000 China

EUT Information

EUT Name: WiFi Module
Model: M2DU
Sample Received Date: March 17, 2026
Sample Status: Normal
Sample ID: 9546030
Date of Tested: April 15, 2026 to May 12, 2026

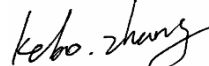
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART C ISED RSS-247 Issue 4	Pass

Prepared By:



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Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 15 SUBPART C ISSED RSS-247 Issue 4, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023, ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and ISSED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	4.36 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.47 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.65 dB (1 GHz ~ 18 GHz)
	4.73 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
DTS and 99% Occupied Bandwidth	±0.0196%
Maximum Conducted Output Power	±0.686 dB
Maximum Power Spectral Density Level	±0.743 dB
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

Remark: For Radiated Emission measurements (200 MHz - 18 GHz), the EUT support table is made of Expanded Polystyrene (EPS). This material is characterized by a low dielectric constant, as recognized in CISPR 16-1-4, to minimize its influence on field strength measurements. This influence has been considered in the uncertainty budget.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WiFi Module
Model	M2DU

Frequency Range:	2412 MHz to 2462 MHz
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Radio Technology:	IEEE 802.11b/g/n HT20
Normal Test Voltage:	DC 12V

5.2. CHANNEL LIST

Channel List For Bandwidth=20 MHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

5.3. MAXIMUM POWER

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	17.79
g	2412 ~ 2462	1-11[11]	15.53
n HT20	2412 ~ 2462	1-11[11]	14.85

Note:

1. Maximum conducted output power = measured value + cable loss (provided by UL)

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		MobaXterm					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	31	31	31	/		
802.11g	1	28	28	31			
802.11n HT20	1	31	28	31			

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20 mode: MCS0

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB antenna	2.39

Note: The antenna gain is provided by clients.

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

Note:

1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/
2	AC/DC Adaptor	/	GQ48-120400-AC	INPUT: 100-240V 50/60Hz 1.5A OUTPUT: DC 12V, 4.0A

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1.0	/

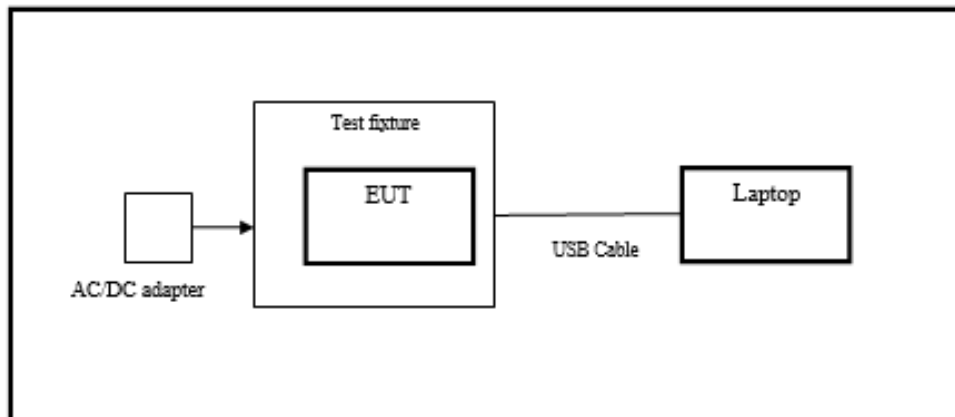
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS



6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.26,2025	Dec.25,2026
Vector Signal Generator	R&S	SMBV100A	261637	Sep.12, 2025	Sep.11, 2026
Signal Generator	R&S	SMB100A	178553	Sep.12, 2025	Sep.11, 2026
Signal Analyzer	R&S	FSV40	101118	Sep.12, 2025	Sep.11, 2026
Software					
Description		Manufacturer	Name		Version
For R&S TS 8997 Test System		Rohde & Schwarz	EMC 32		10.60.10
Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.12, 2025	Sep.11, 2026
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.12, 2025	Sep.11, 2026
DC power supply	TSSTAKASAGO	ZX-400L	409150160137	Sep.12, 2025	Sep.11, 2026
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.12, 2025	Sep.11, 2026
Attenuator	Aglient	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.26,2025	Dec.25,2026
Software					
Description	Manufacturer	Name			Version
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System			V3.2.22

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.12, 2025	Sep.11, 2026
Two-Line V-Network	R&S	ENV216	101983	Sep.12, 2025	Sep.11, 2026
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.12, 2025	Sep.11, 2026
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions(Below 1G)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.12, 2025	Sep.11, 2026
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.12, 2025	Sep.11, 2026
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions(Above 1G)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Signal Analyzer	R&S	FSV40	101117	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-001-3000	TRS-302-00051	Sep.12, 2025	Sep.11, 2026
Horn Antenna	ETS-Lindgren	3117	00213191	Jan.29,2026	Jan.28,2029
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.12, 2025	Sep.11, 2026
High Gain Horn Antenna	Schwarzbeck	BBHA-9170	697	Jun. 30, 2024	Jun. 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00002	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.12, 2025	Sep.11, 2026
Highpass Filter	Wainwright	WHKX10-2700-3000-1800-40SS	24	Sep.12, 2025	Sep.11, 2026

Band Reject Filter	Wainwright	WRCJV8- 2350-2400- 2483.5- 2533.5-40SS	4	Sep.12, 2025	Sep.11, 2026
Software					
Description	Manufacturer	Name		Version	
Test Software for Radiated Emission	Tonscend	JS32-RE		5.0.0	
Test Software for Radiated Emissions	Farad	EZ-EMC		Ver. UL-3A1	

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
Barometer	Yiyi	Baro	N/A	Sep.19, 2025	Sep.18, 2026
Attenuator	Agilent	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(b)(3) ISED RSS-247 6.3.2	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

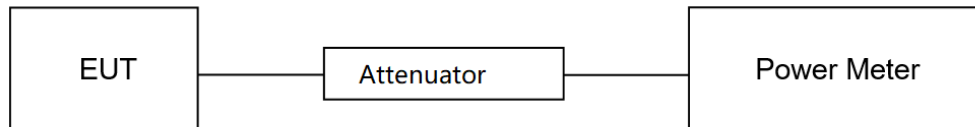
Refer to ANSI C63.10-2020 clause 11.9.2.3.1.

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the average output power, after any corrections for external attenuators and cables.

The test result in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	60.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	April 15, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(a)(2) ISED RSS-247 6.3.1(a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

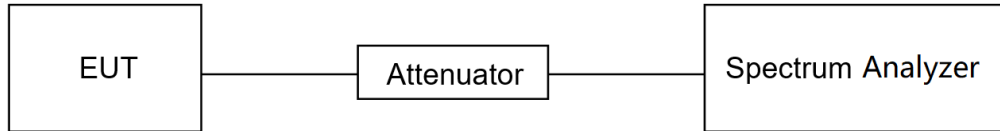
Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
Detector	Peak
RBW	For 6 dB Bandwidth: 1 % to 5 % of the OBW but not less than 100 kHz For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW For 99 % Occupied Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.1℃	Relative Humidity	60.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	April 15, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

7.3. POWER SPECTRAL DENSITY

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR §15.247 (e) ISED RSS-247 6.3.1 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.10.5.

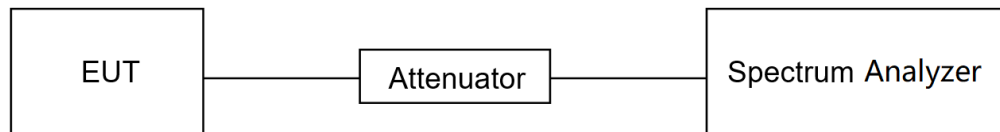
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	power averaging (rms)
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$> 1.5 \times \text{OBW bandwidth}$
Trace	Employ trace averaging(rms)mode over a minimum of 100 traces
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1°C	Relative Humidity	60.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	April 15, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
FCC 47 CFR §15.247 (d) ISED RSS-247 6.6	Conducted Bandedge and Spurious Emissions	at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.11.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

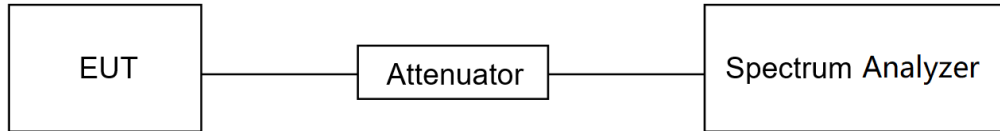
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$\geq 1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span/RBW}$
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.1℃	Relative Humidity	60.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	April 15, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix E&F

7.5. DUTY CYCLE

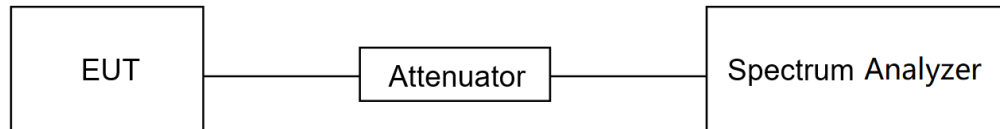
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 12V

TEST DATE / ENGINEER

Test Date	April 15, 2026	Test By	Bairong Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix G

8. RADIATED TEST RESULTS

LIMITS

Please refer to FCC 47 CFR §15.205 and §15.209.

Please refer to ISSED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit ($\mu\text{V/m}$) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/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

ISSED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.6
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC 47 CFR §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

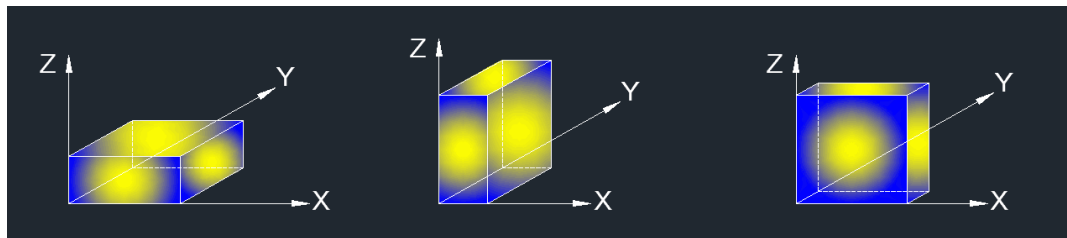
Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.5. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

For Restricted Bandedge:

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. $\text{dBuA/m} = \text{dBuV/m} - 20\log_{10}[120\pi] = \text{dBuV/m} - 51.5$

For Radiate Spurious Emission (30 MHz ~ 1 GHz):

Note:

1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):

Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

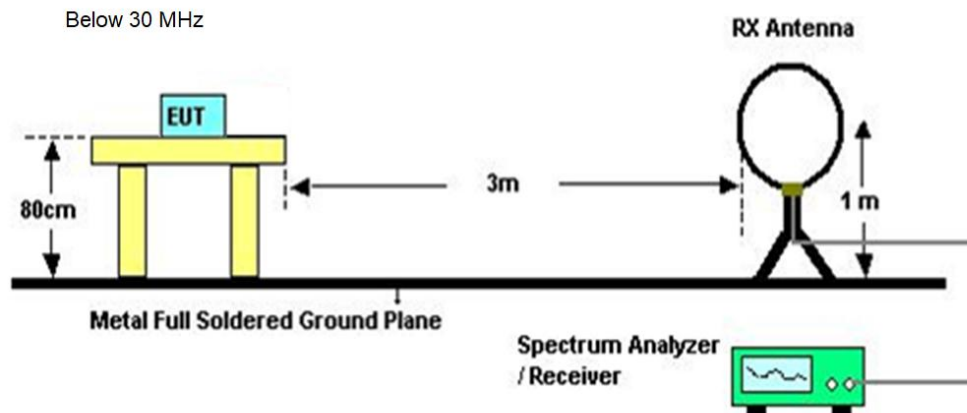
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.5.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):

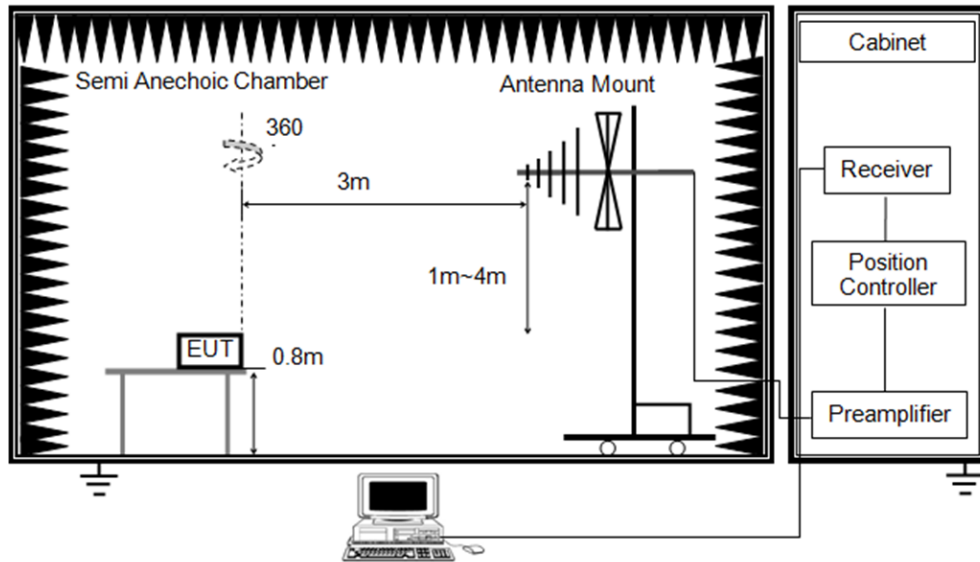
Note:

1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

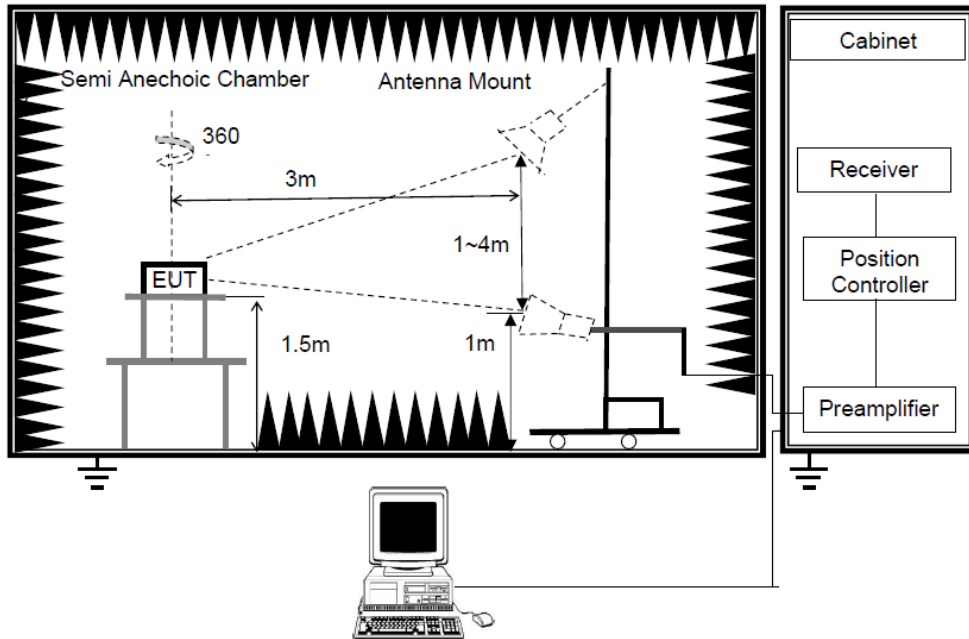
TEST SETUP



Below 1 GHz and above 30 MHz

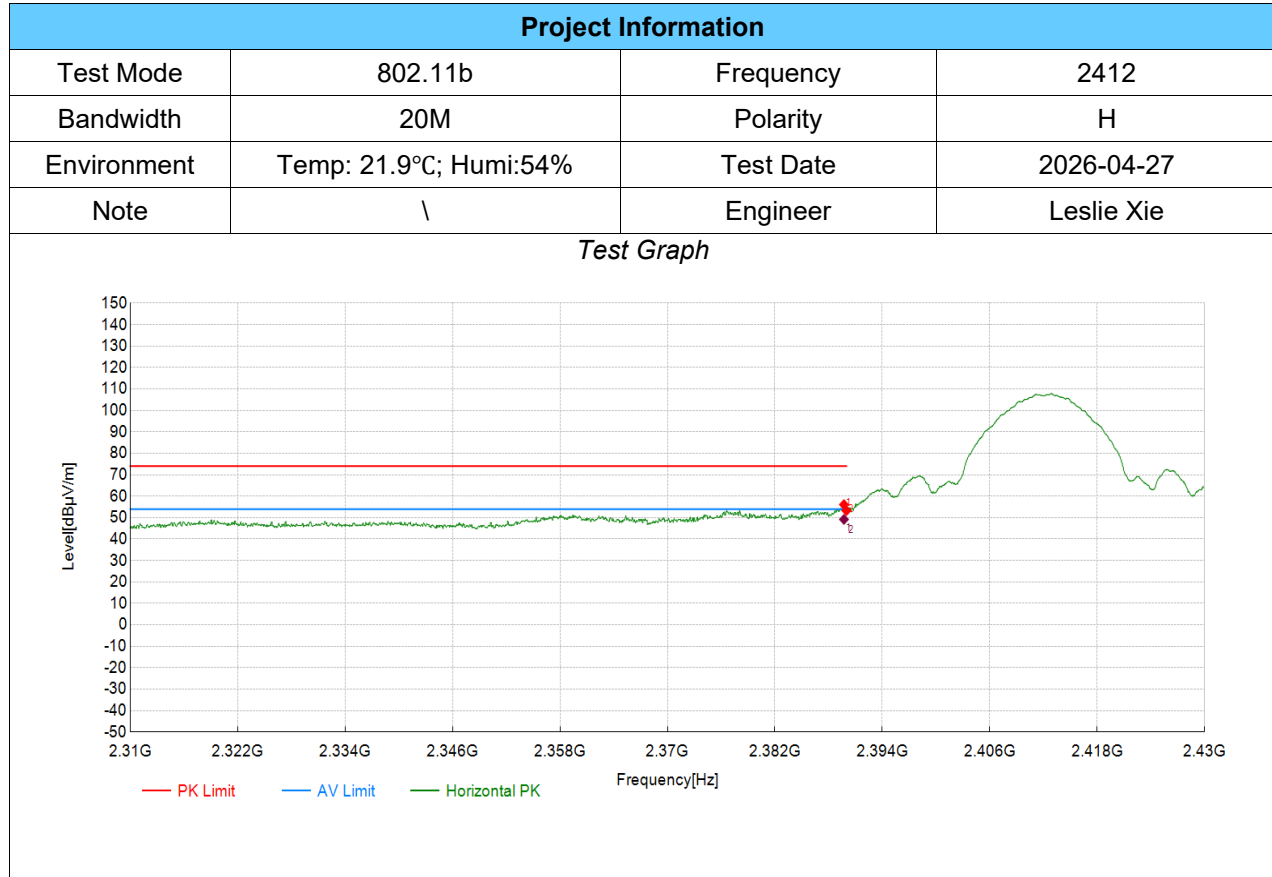


Above 1GHz



TEST RESULTS

8.1. RESTRICTED BANDEDGE



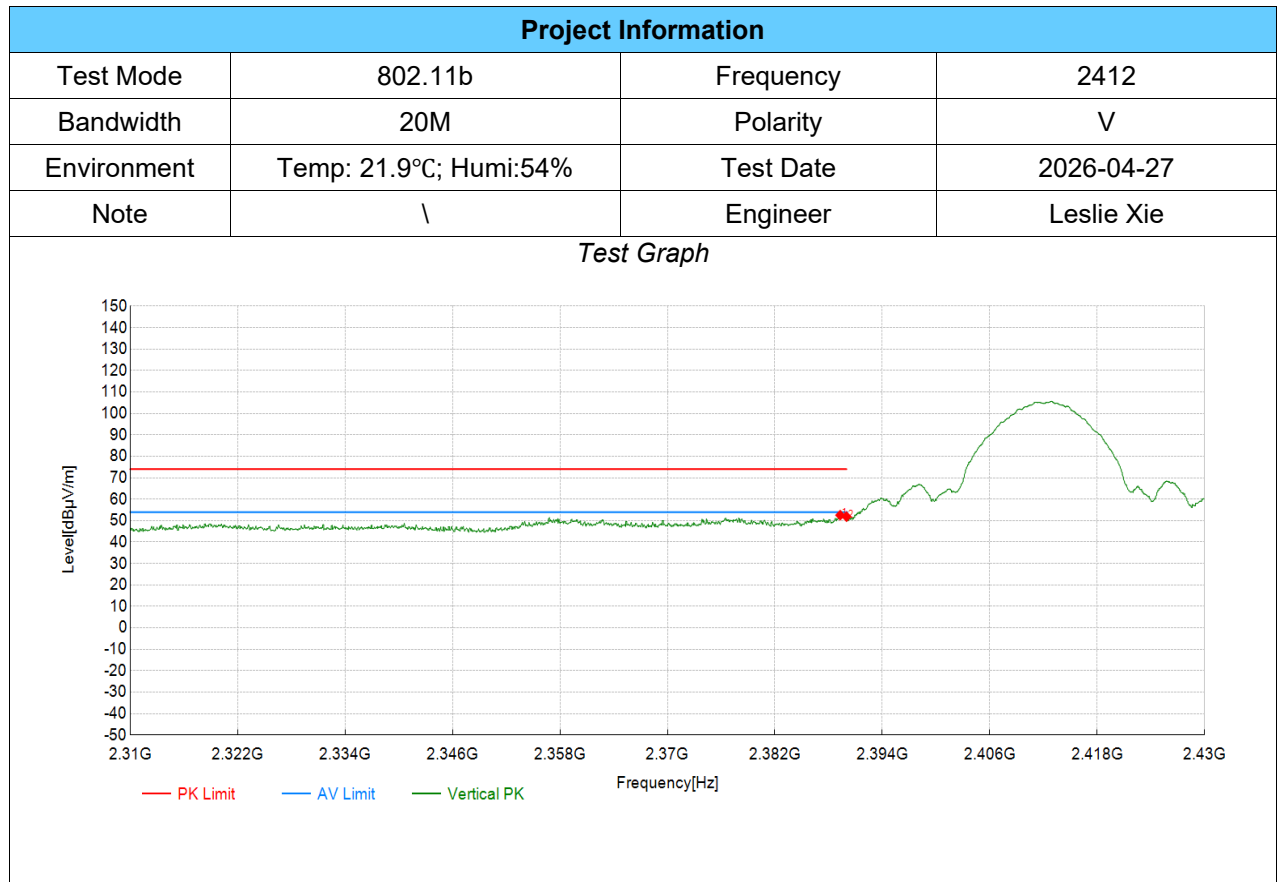
PEAK Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.72	47.41	56.10	8.69	74.00	17.90	PK	Horizontal	PASS
2	2390.00	44.57	53.27	8.70	74.00	20.73	PK	Horizontal	PASS

AVG Data List

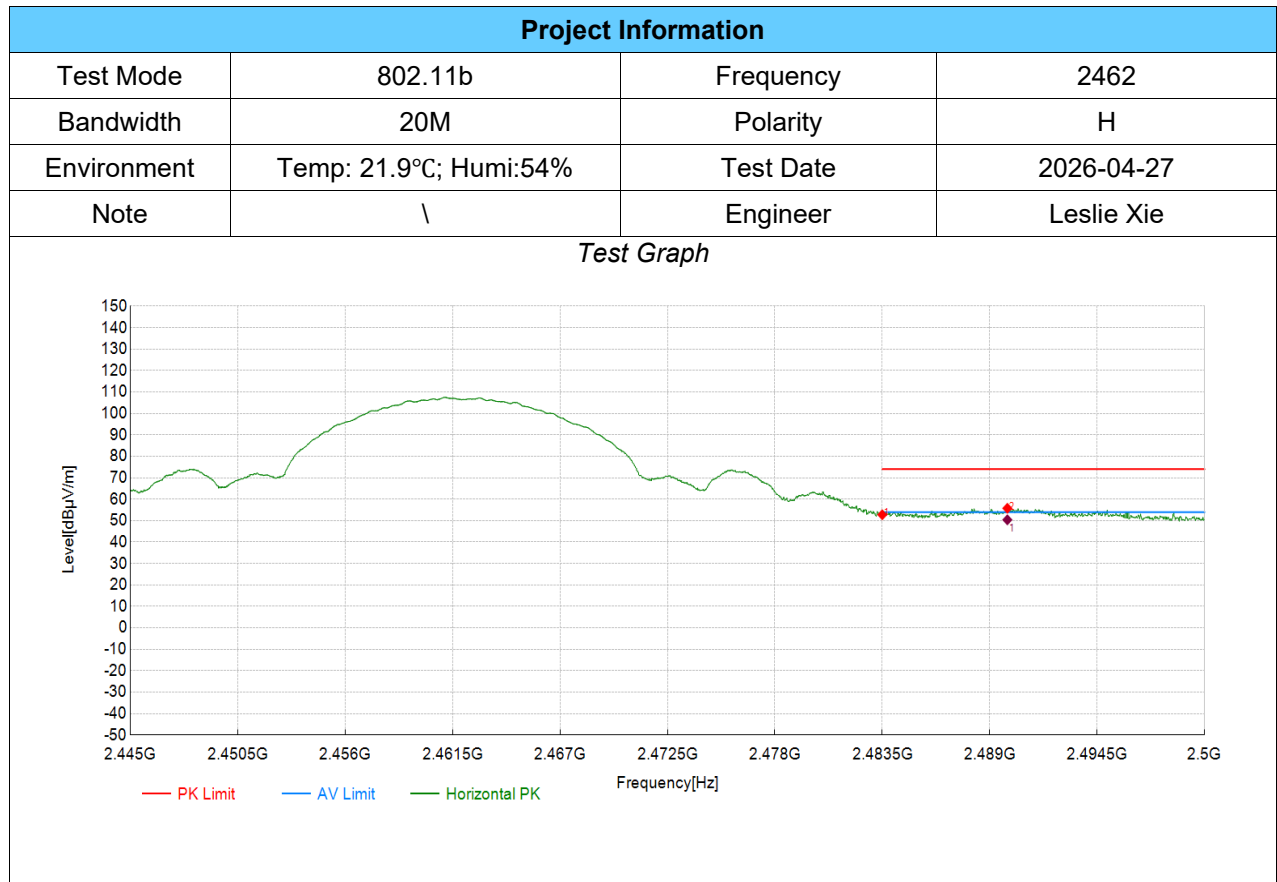
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2389.72	8.69	40.48	49.17	54.00	4.83	Horizontal	PASS
2	2390.00	8.69	39.81	48.50	54.00	5.50	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.30	43.87	52.56	8.69	74.00	21.44	PK	Vertical	PASS
2	2390.00	43.18	51.88	8.70	74.00	22.12	PK	Vertical	PASS

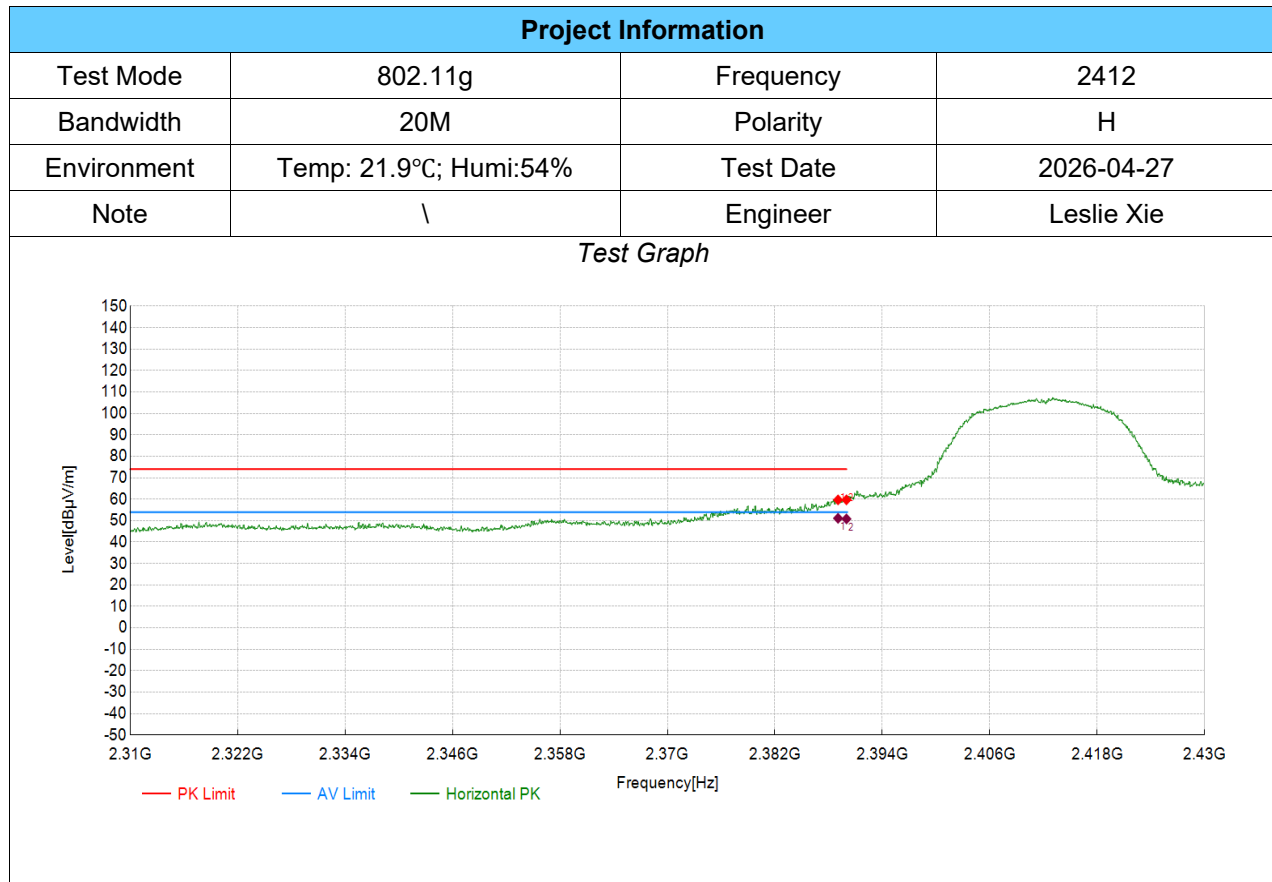
Note: (1) Level = Reading + Factor
 (2) Margin = Limit - Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	42.76	52.75	9.99	74.00	21.25	PK	Horizontal	PASS
2	2489.90	45.68	55.76	10.08	74.00	18.24	PK	Horizontal	PASS

AVG Data List								
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2489.90	10.08	40.31	50.39	54.00	3.61	Horizontal	PASS

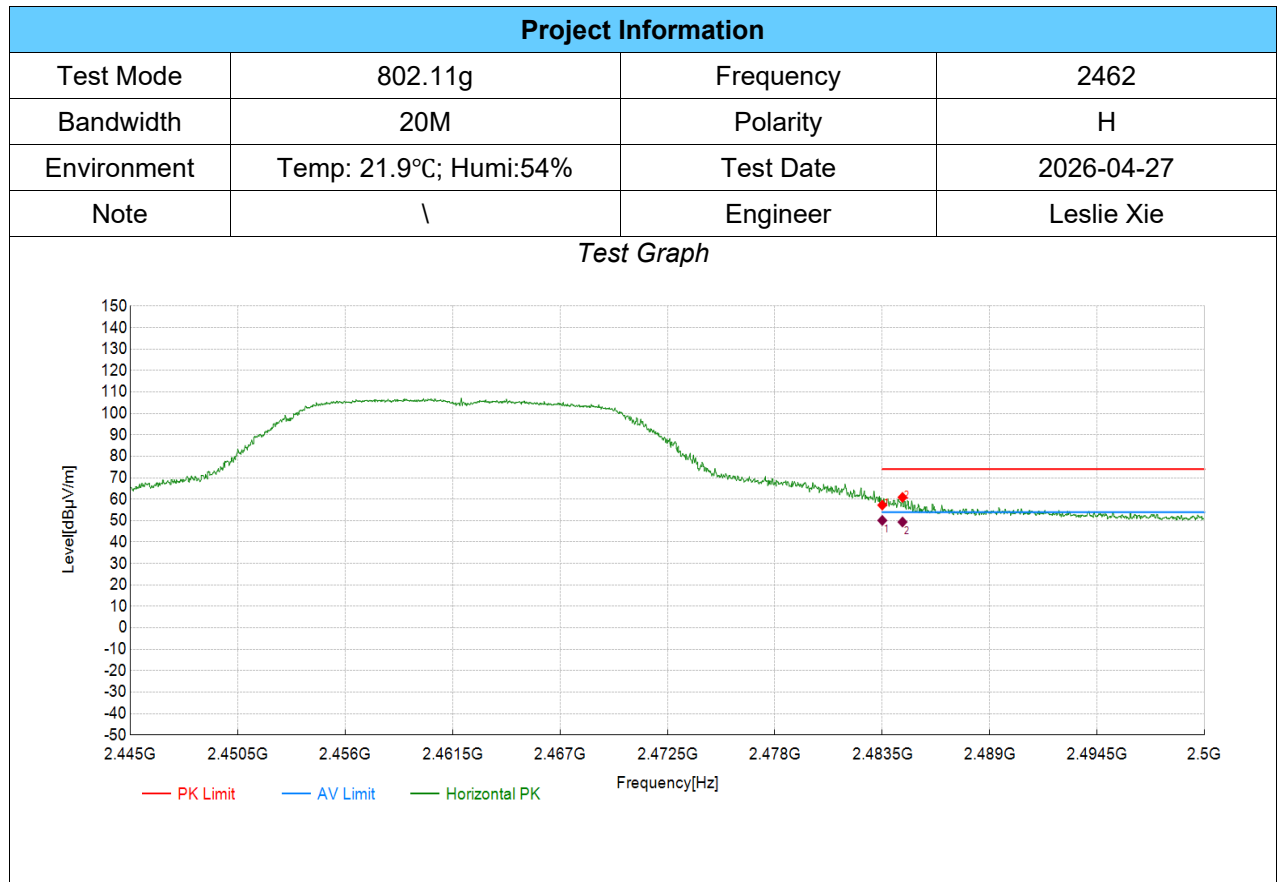
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.06	51.02	59.70	8.68	74.00	14.30	PK	Horizontal	PASS
2	2390.00	51.01	59.71	8.70	74.00	14.29	PK	Horizontal	PASS

AVG Data List								
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2389.06	8.68	42.42	51.10	54.00	2.90	Horizontal	PASS
2	2390.00	8.69	42.11	50.80	54.00	3.20	Horizontal	PASS

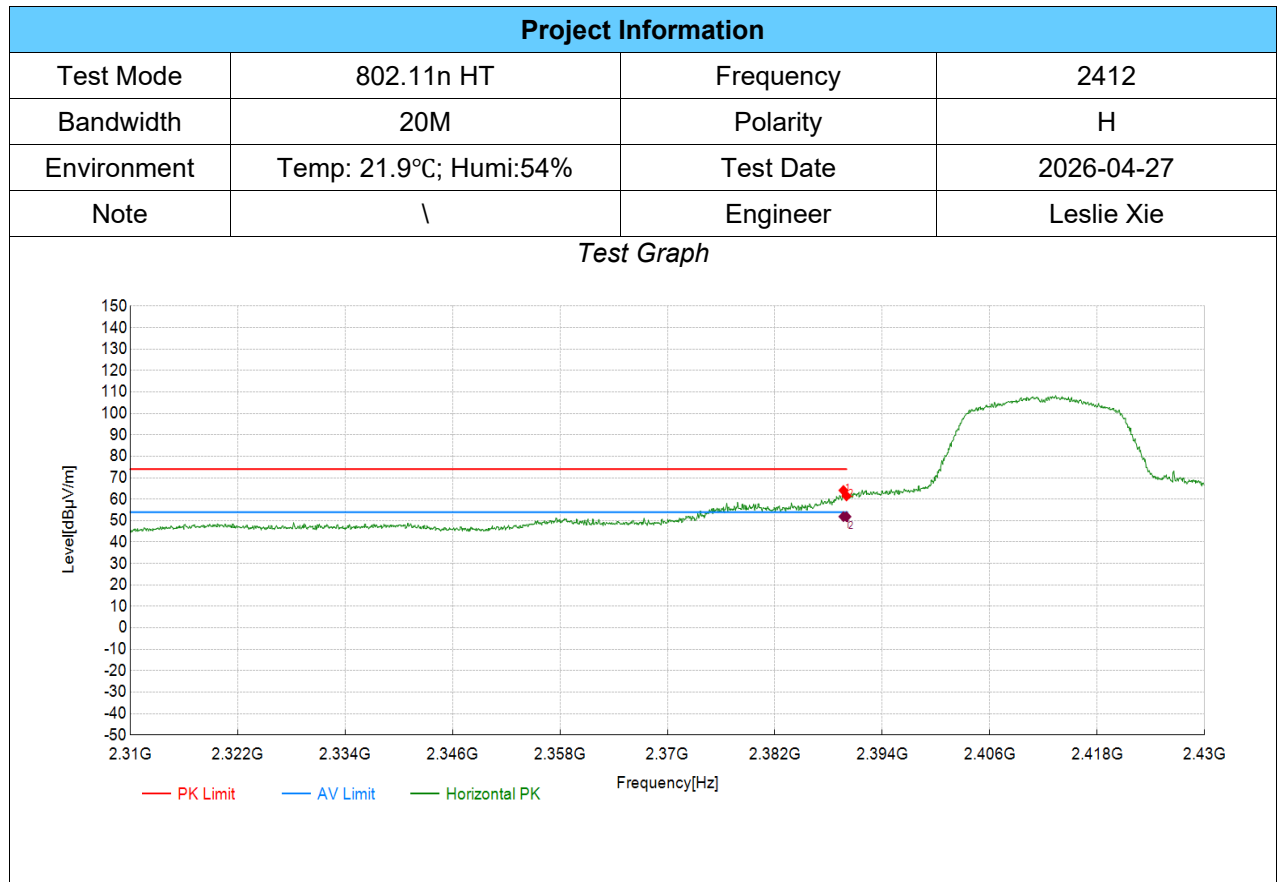
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	47.26	57.25	9.99	74.00	16.75	PK	Horizontal	PASS
2	2484.54	50.84	60.85	10.01	74.00	13.15	PK	Horizontal	PASS

AVG Data List								
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2483.50	9.99	40.08	50.07	54.00	3.93	Horizontal	PASS
2	2484.54	10.01	39.35	49.36	54.00	4.64	Horizontal	PASS

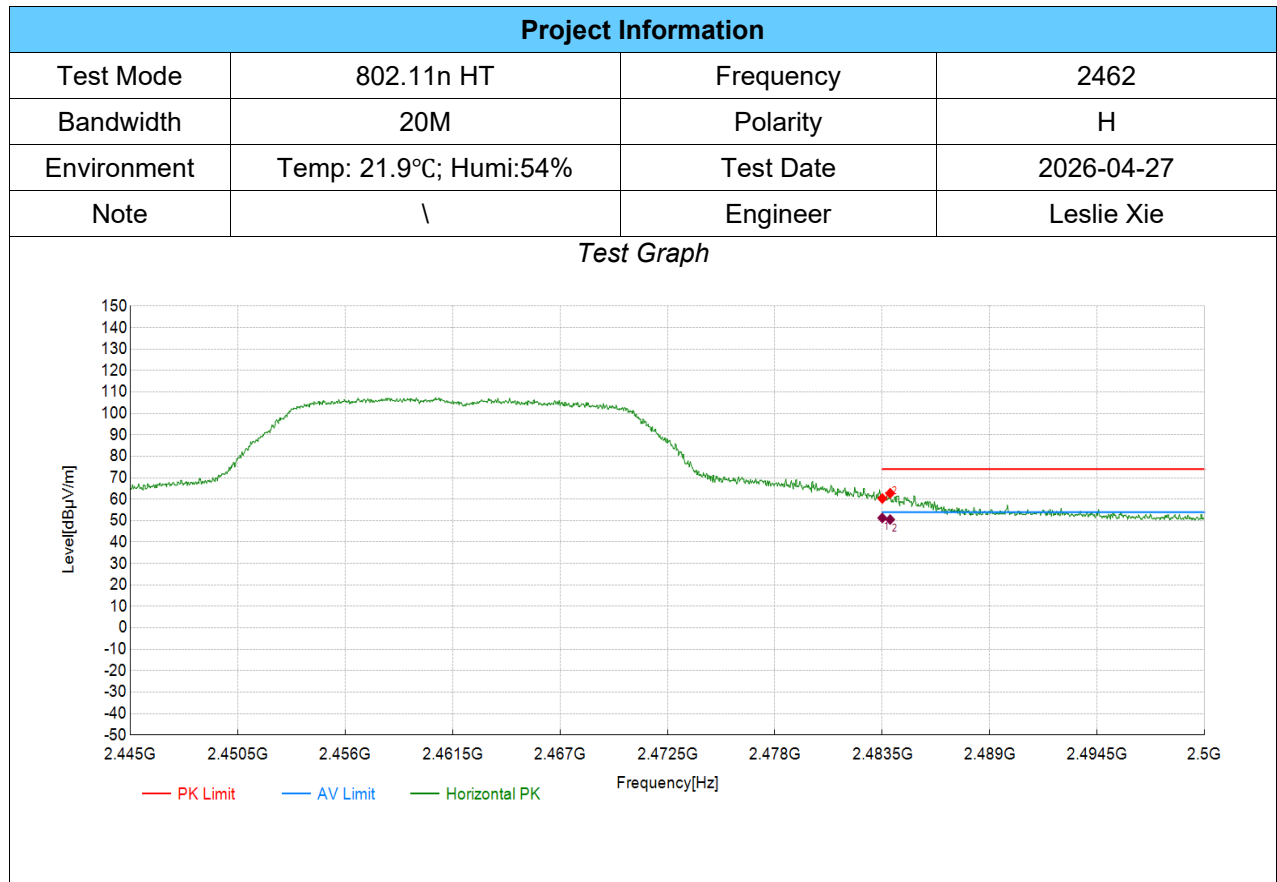
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.66	55.40	64.09	8.69	74.00	9.91	PK	Horizontal	PASS
2	2390.00	52.81	61.51	8.70	74.00	12.49	PK	Horizontal	PASS

AVG Data List								
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2389.66	8.69	43.18	51.87	54.00	2.13	Horizontal	PASS
2	2390.00	8.69	43.17	51.86	54.00	2.14	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

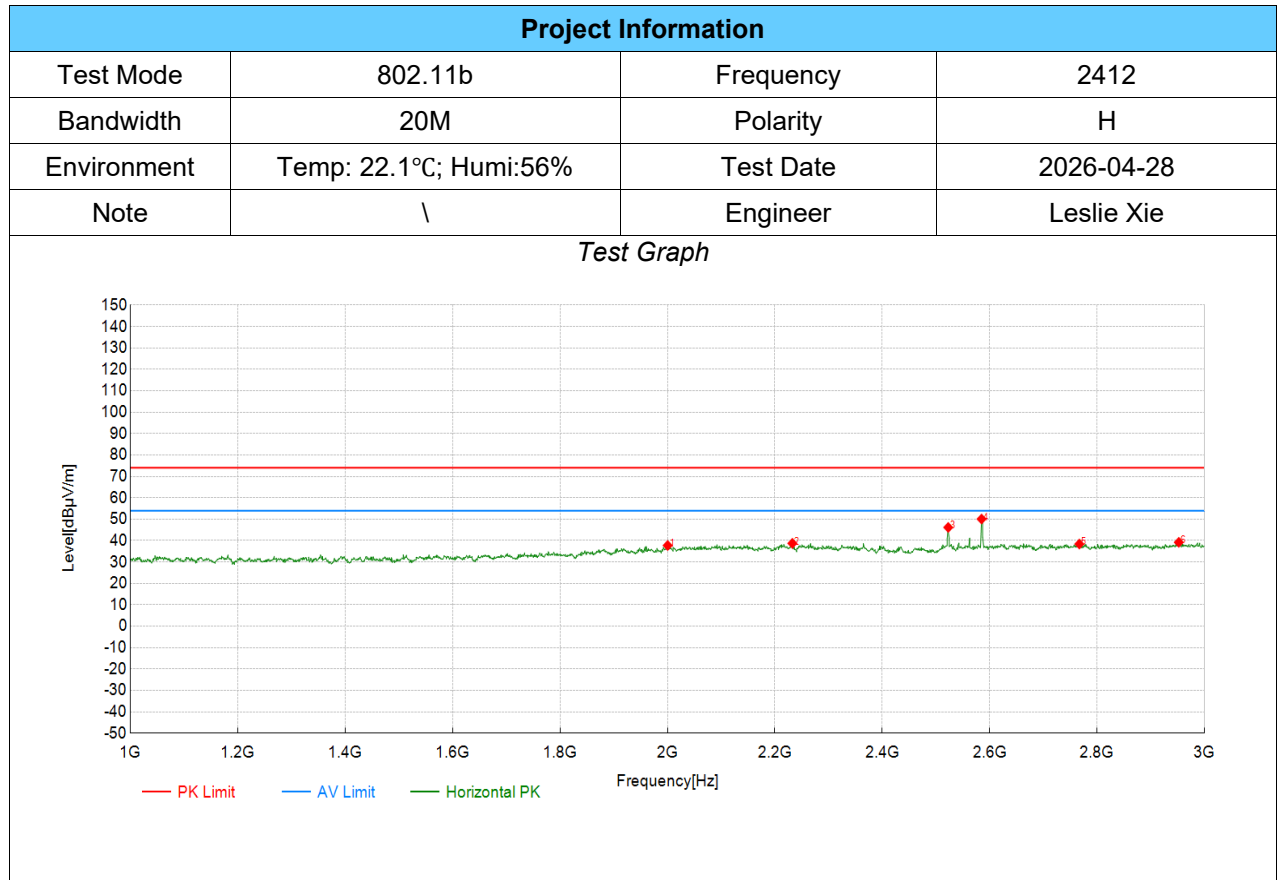


PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	50.34	60.33	9.99	74.00	13.67	PK	Horizontal	PASS
2	2483.90	52.76	62.76	10.00	74.00	11.24	PK	Horizontal	PASS

AVG Data List								
NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2483.50	9.99	41.24	51.23	54.00	2.77	Horizontal	PASS
2	2483.90	10.00	40.52	50.52	54.00	3.48	Horizontal	PASS

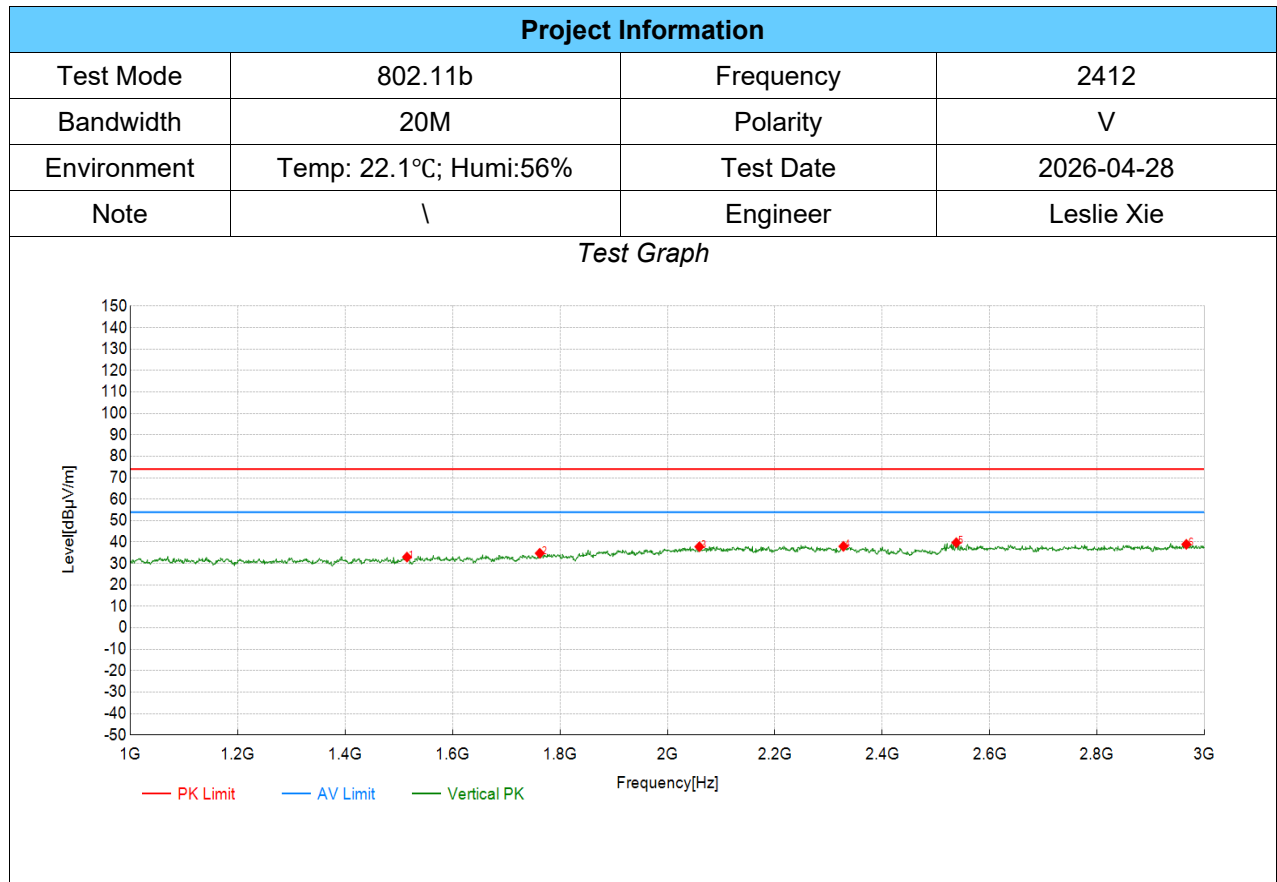
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)



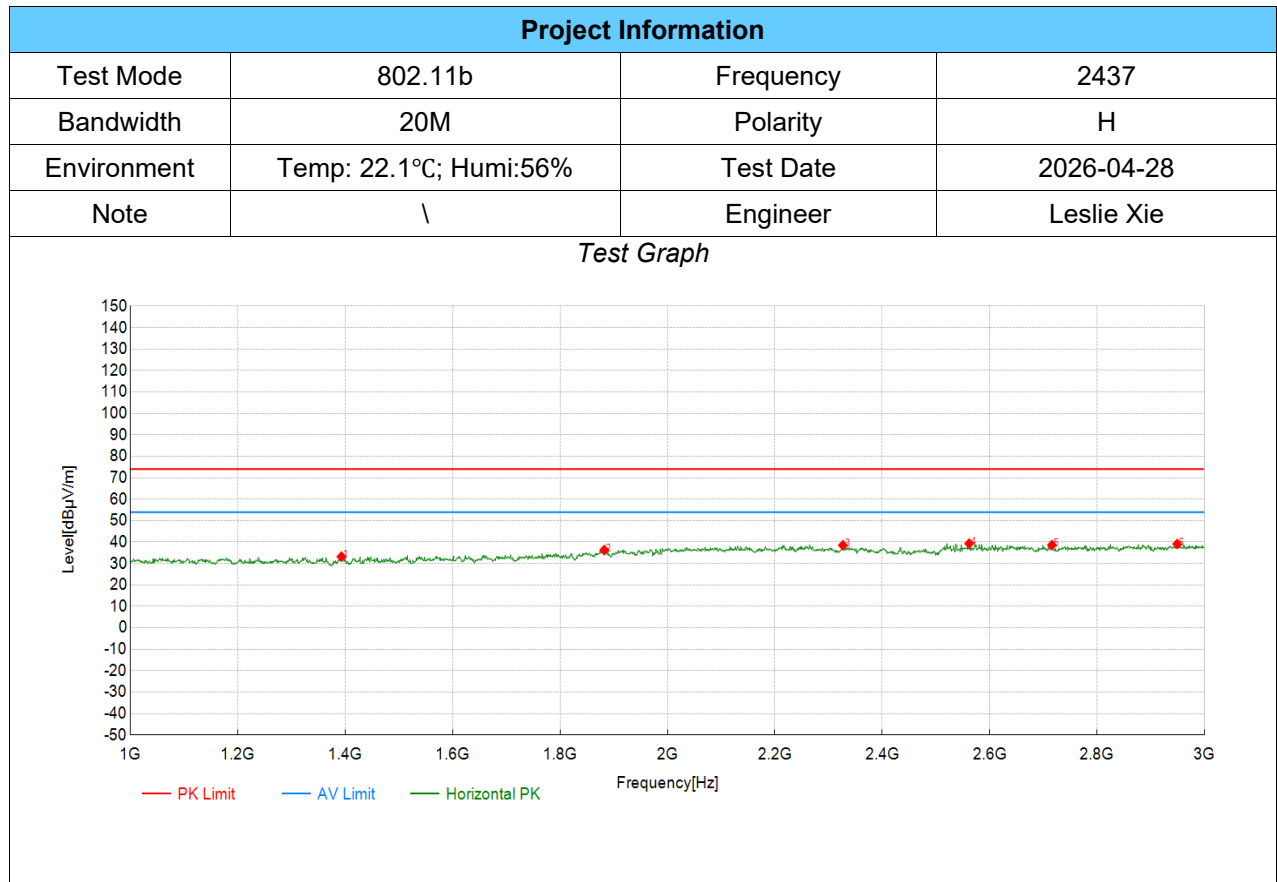
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2000.50	57.84	37.73	-20.11	74.00	36.27	PK	Horizontal	PASS
2	2232.62	58.43	38.73	-19.70	74.00	35.27	PK	Horizontal	PASS
3	2522.76	65.75	46.17	-19.58	74.00	27.83	PK	Horizontal	PASS
4	2584.79	69.57	50.09	-19.48	74.00	23.91	PK	Horizontal	PASS
5	2766.88	57.59	38.40	-19.19	74.00	35.60	PK	Horizontal	PASS
6	2951.98	58.23	39.20	-19.03	74.00	34.80	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



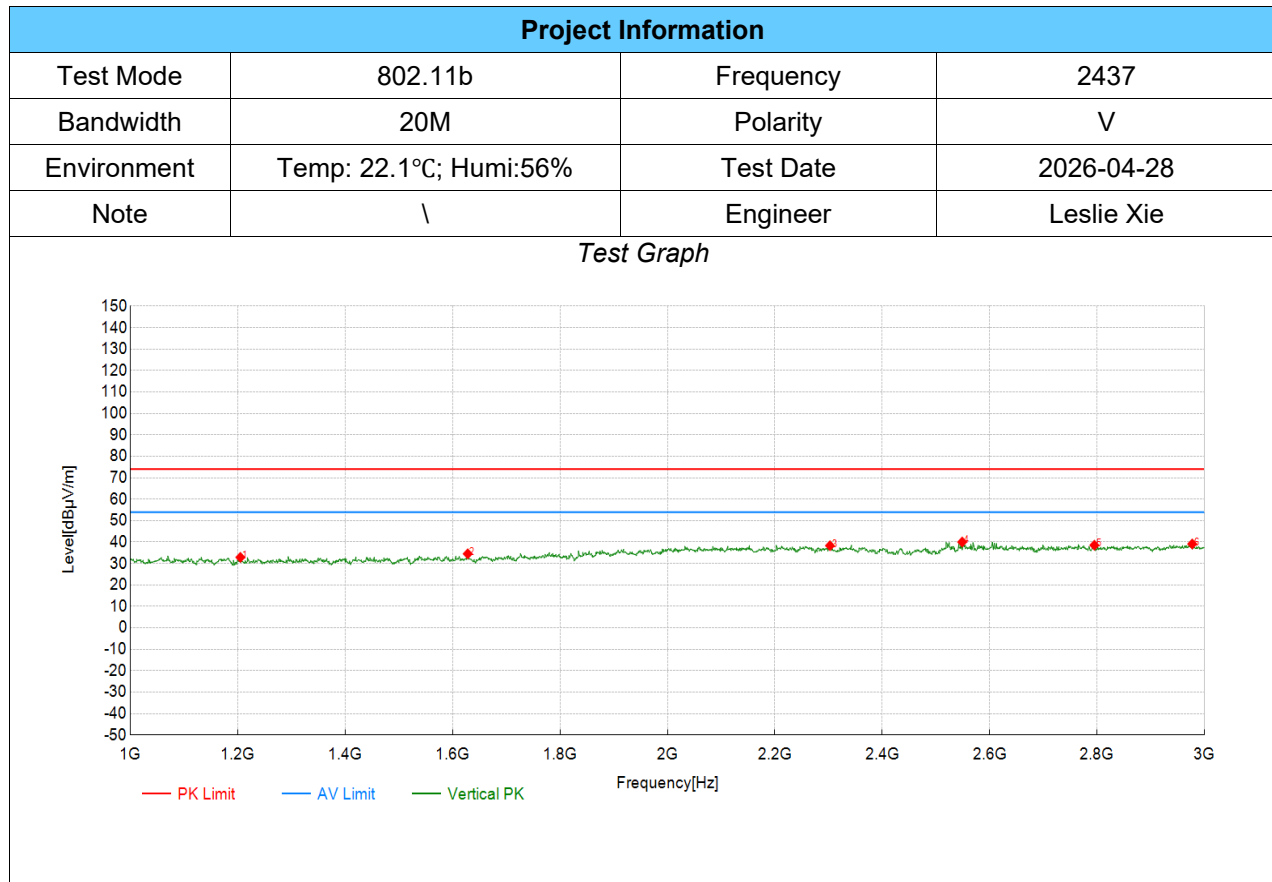
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1515.26	57.47	32.99	-24.48	74.00	41.01	PK	Vertical	PASS
2	1762.38	57.35	34.79	-22.56	74.00	39.21	PK	Vertical	PASS
3	2059.53	57.83	37.84	-19.99	74.00	36.16	PK	Vertical	PASS
4	2327.66	57.68	38.01	-19.67	74.00	35.99	PK	Vertical	PASS
5	2537.77	59.29	39.72	-19.57	74.00	34.28	PK	Vertical	PASS
6	2965.98	57.96	38.94	-19.02	74.00	35.06	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



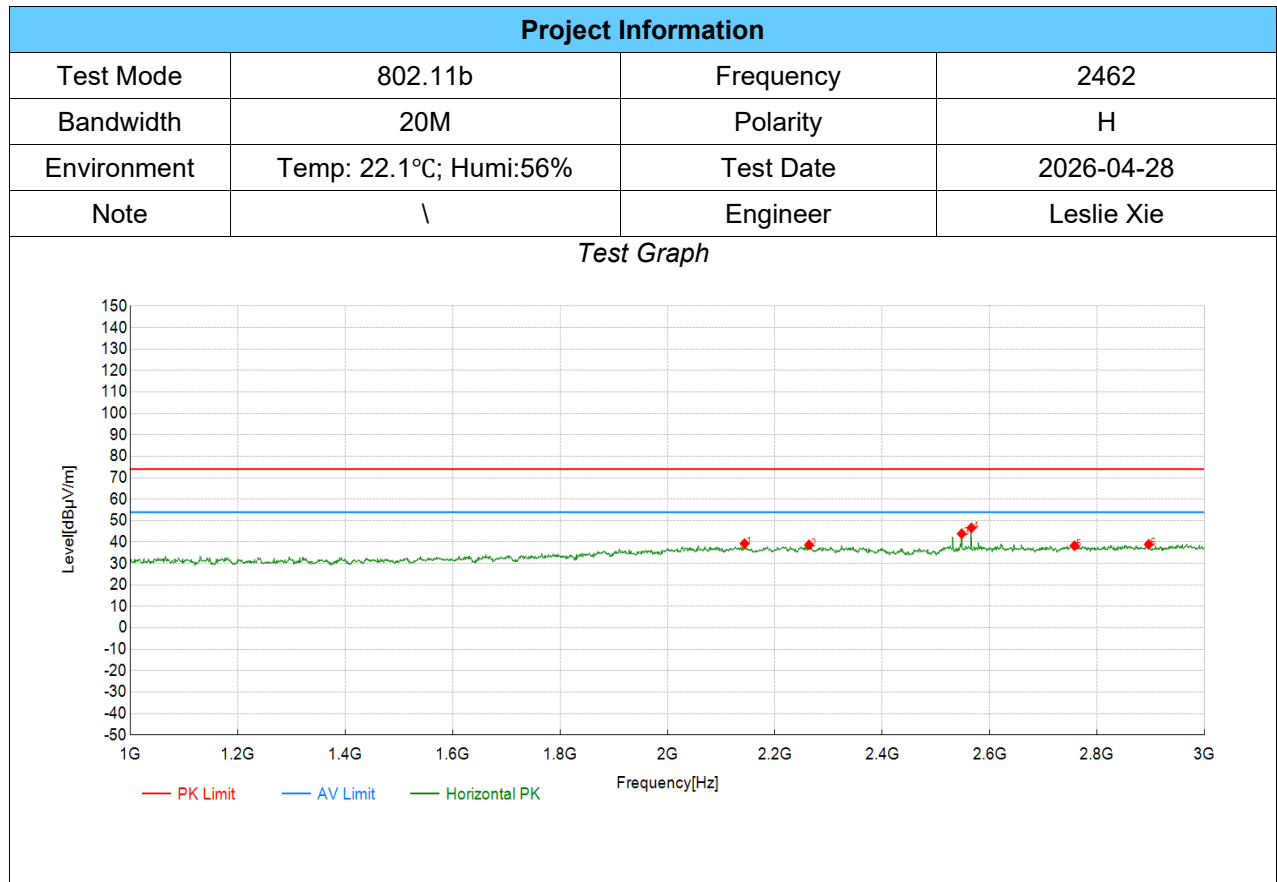
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1393.20	57.85	33.23	-24.62	74.00	40.77	PK	Horizontal	PASS
2	1882.44	57.65	36.28	-21.37	74.00	37.72	PK	Horizontal	PASS
3	2326.66	58.20	38.53	-19.67	74.00	35.47	PK	Horizontal	PASS
4	2561.78	58.81	39.29	-19.52	74.00	34.71	PK	Horizontal	PASS
5	2715.86	57.85	38.57	-19.28	74.00	35.43	PK	Horizontal	PASS
6	2948.97	58.13	39.10	-19.03	74.00	34.90	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level



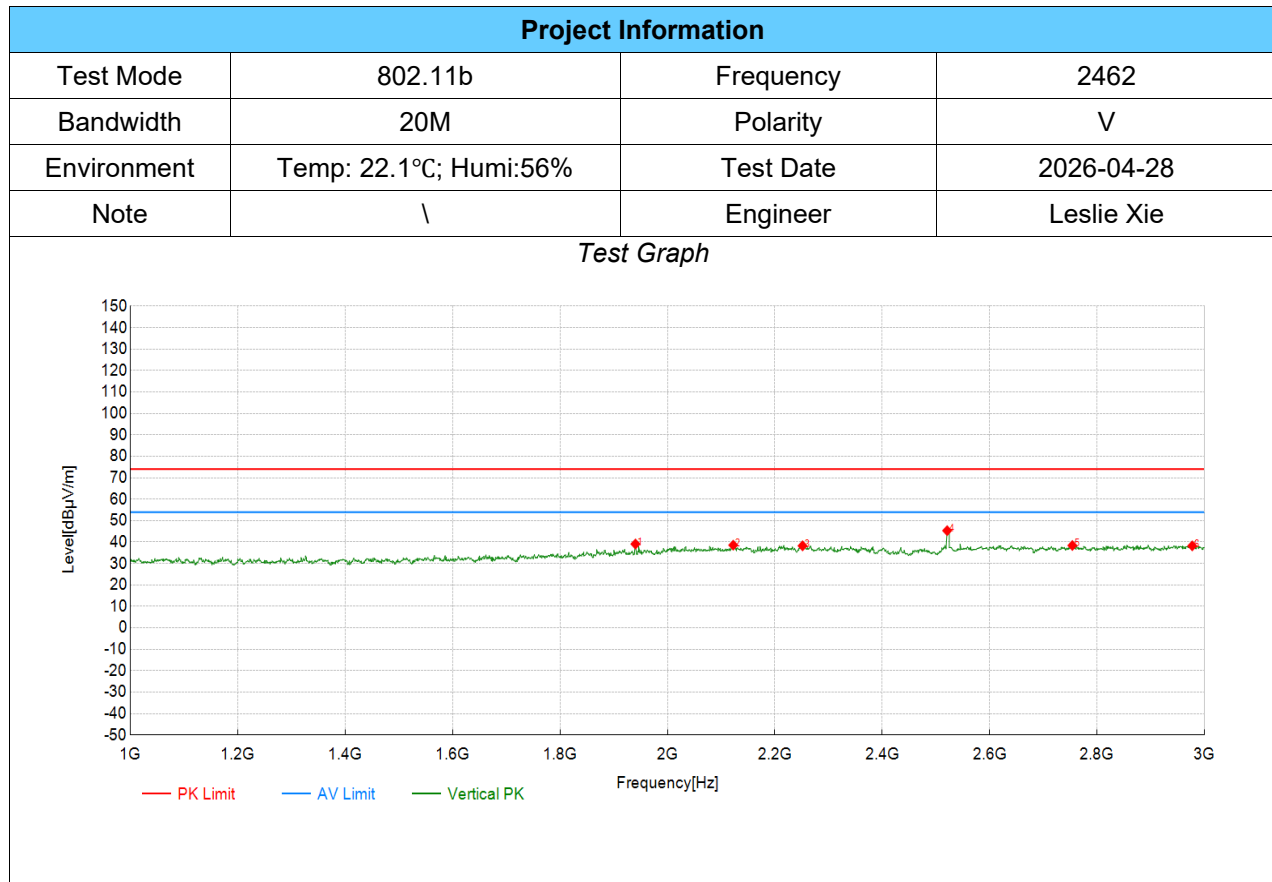
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1205.10	57.49	32.89	-24.60	74.00	41.11	PK	Vertical	PASS
2	1628.31	58.14	34.54	-23.60	74.00	39.46	PK	Vertical	PASS
3	2302.65	58.00	38.33	-19.67	74.00	35.67	PK	Vertical	PASS
4	2548.77	59.59	40.04	-19.55	74.00	33.96	PK	Vertical	PASS
5	2794.90	57.67	38.54	-19.13	74.00	35.46	PK	Vertical	PASS
6	2976.99	58.15	39.13	-19.02	74.00	34.87	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2143.57	59.13	39.30	-19.83	74.00	34.70	PK	Horizontal	PASS
2	2263.63	58.41	38.72	-19.69	74.00	35.28	PK	Horizontal	PASS
3	2547.77	63.44	43.89	-19.55	74.00	30.11	PK	Horizontal	PASS
4	2565.78	66.13	46.60	-19.53	74.00	27.40	PK	Horizontal	PASS
5	2757.88	57.50	38.30	-19.20	74.00	35.70	PK	Horizontal	PASS
6	2895.95	57.98	38.91	-19.07	74.00	35.09	PK	Horizontal	PASS

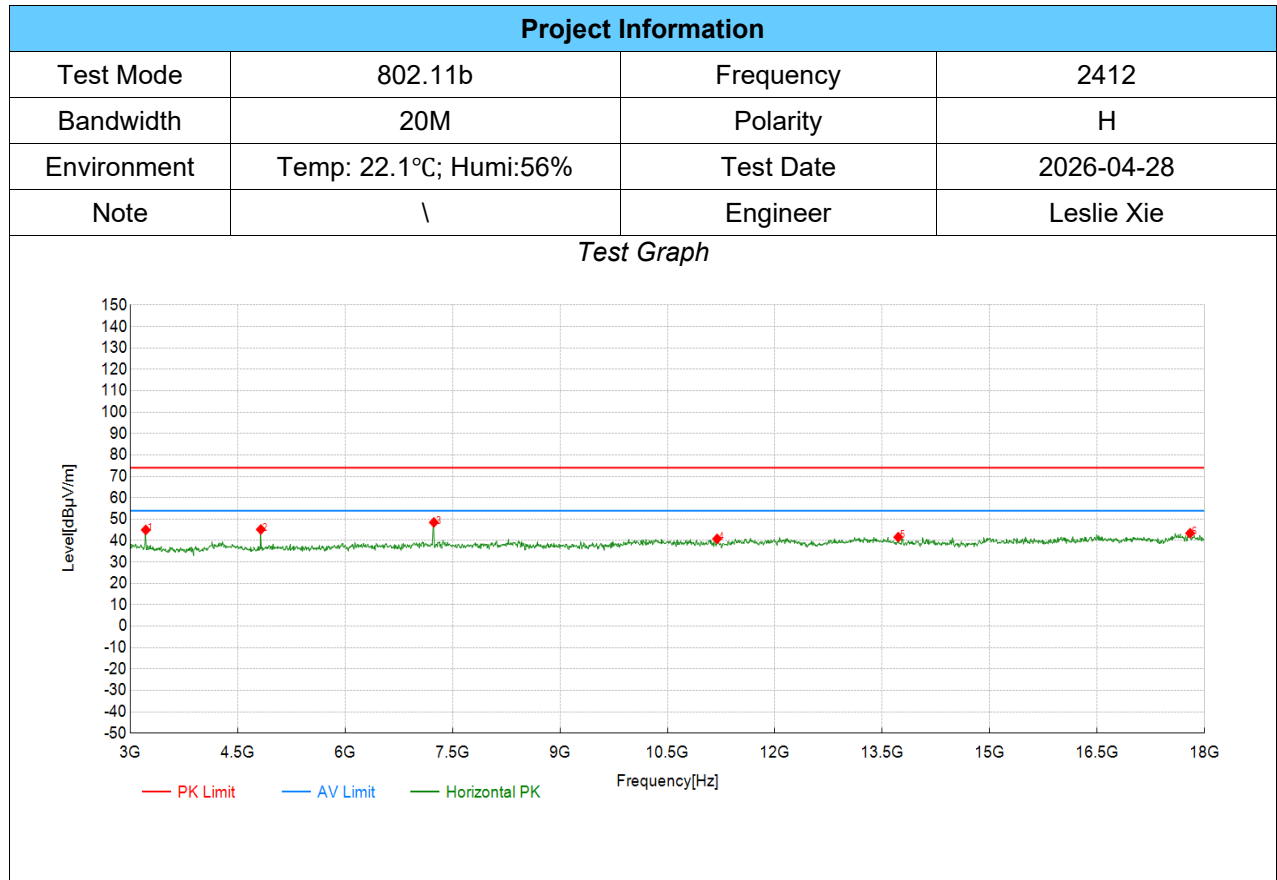
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1940.47	59.86	39.11	-20.75	74.00	34.89	PK	Vertical	PASS
2	2122.56	58.44	38.57	-19.87	74.00	35.43	PK	Vertical	PASS
3	2251.63	57.95	38.25	-19.70	74.00	35.75	PK	Vertical	PASS
4	2520.76	64.93	45.35	-19.58	74.00	28.65	PK	Vertical	PASS
5	2753.88	57.61	38.41	-19.20	74.00	35.59	PK	Vertical	PASS
6	2976.99	57.26	38.24	-19.02	74.00	35.76	PK	Vertical	PASS

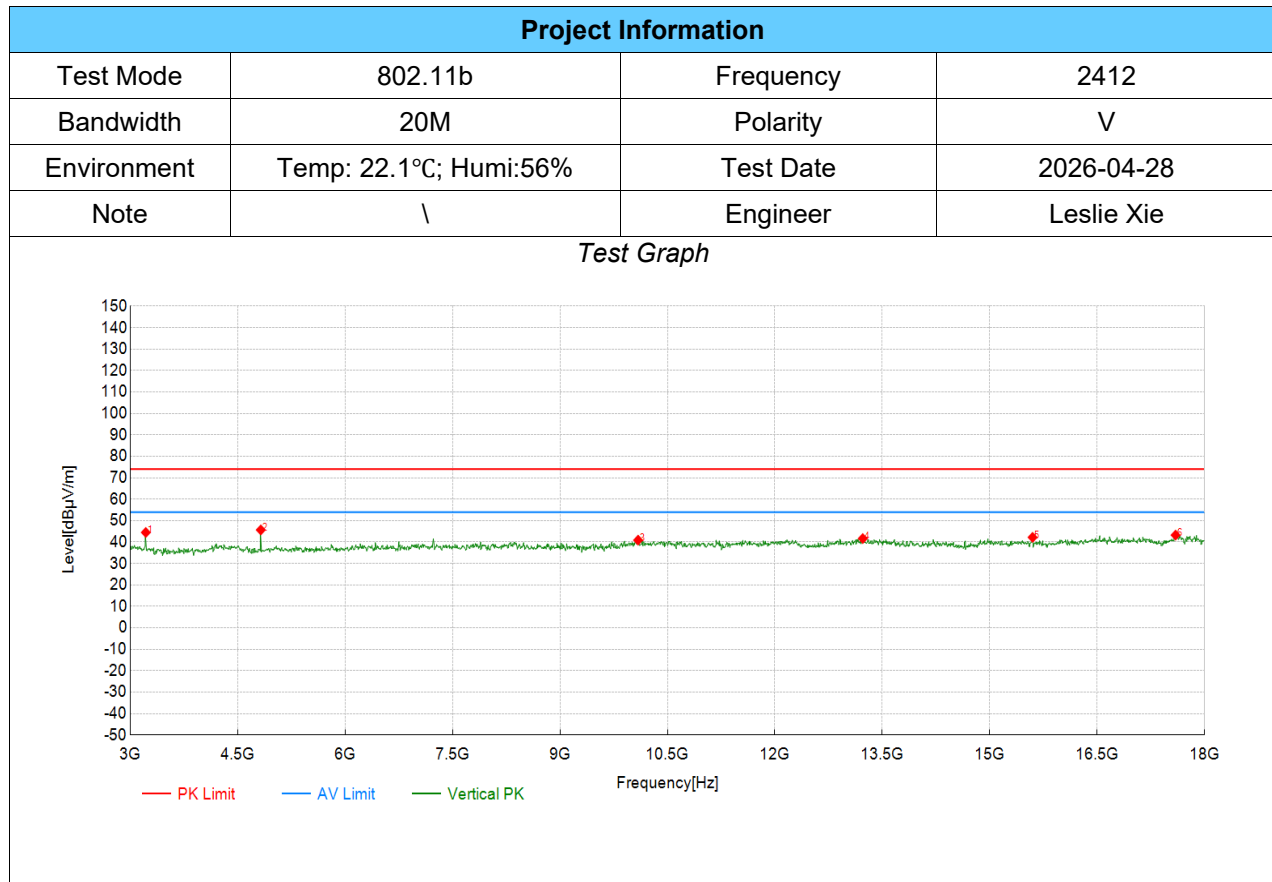
Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)



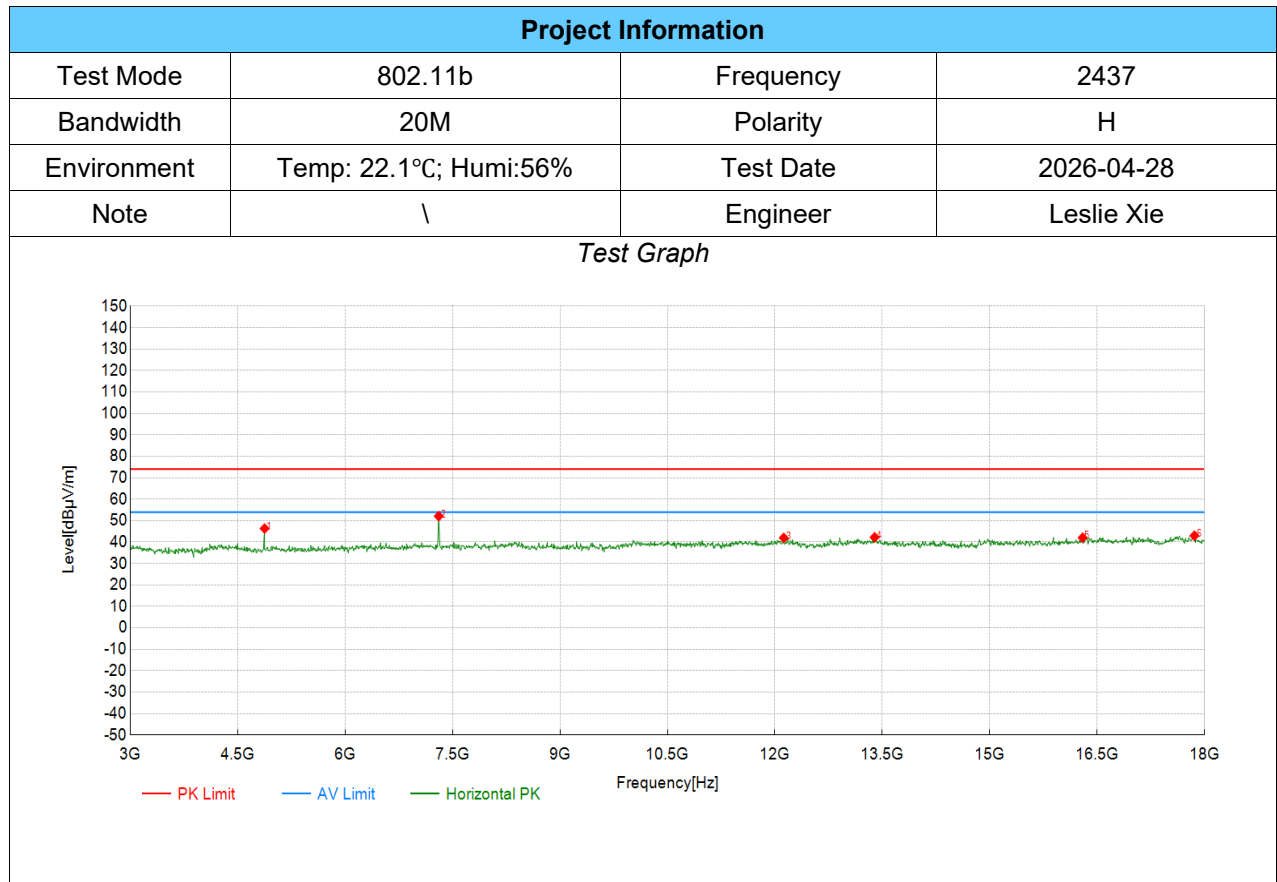
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	3217.61	63.41	44.99	-18.42	74.00	29.01	PK	Horizontal	PASS
2	4823.41	63.66	45.19	-18.47	74.00	28.81	PK	Horizontal	PASS
3	7239.62	63.70	48.49	-15.21	74.00	25.51	PK	Horizontal	PASS
4	11194.10	49.48	40.83	-8.65	74.00	33.17	PK	Horizontal	PASS
5	13722.86	54.00	41.63	-12.37	74.00	32.37	PK	Horizontal	PASS
6	17797.40	48.56	43.44	-5.12	74.00	30.56	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



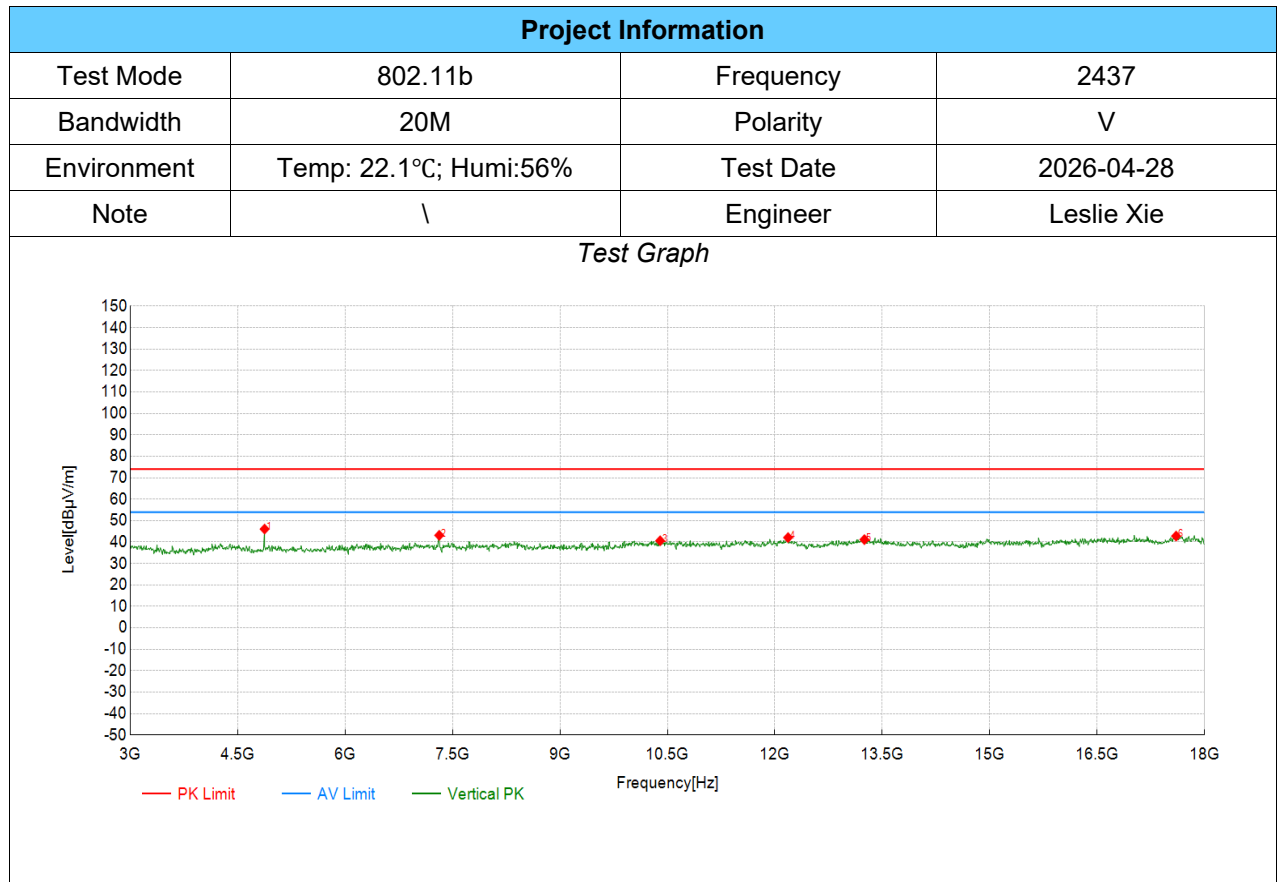
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	3217.61	62.91	44.49	-18.42	74.00	29.51	PK	Vertical	PASS
2	4823.41	64.14	45.67	-18.47	74.00	28.33	PK	Vertical	PASS
3	10091.05	51.87	40.91	-10.96	74.00	33.09	PK	Vertical	PASS
4	13227.61	52.53	41.65	-10.88	74.00	32.35	PK	Vertical	PASS
5	15598.80	51.75	42.20	-9.55	74.00	31.80	PK	Vertical	PASS
6	17594.80	48.34	43.27	-5.07	74.00	30.73	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level



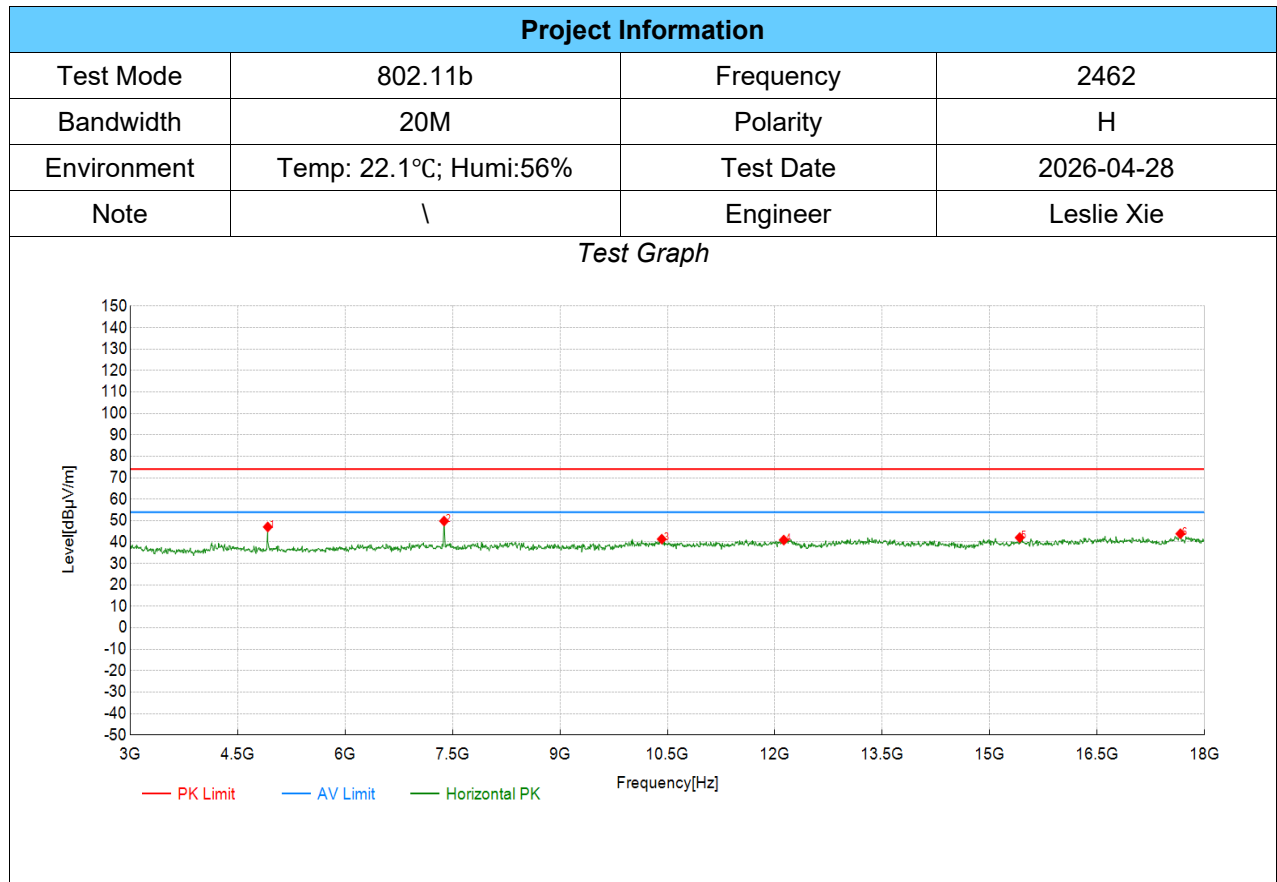
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4875.94	64.52	46.33	-18.19	74.00	27.67	PK	Horizontal	PASS
2	7307.15	67.28	52.10	-15.18	74.00	21.90	PK	Horizontal	PASS
3	12124.56	51.67	41.96	-9.71	74.00	32.04	PK	Horizontal	PASS
4	13392.70	53.50	42.22	-11.28	74.00	31.78	PK	Horizontal	PASS
5	16296.65	50.45	42.03	-8.42	74.00	31.97	PK	Horizontal	PASS
6	17857.43	48.30	42.97	-5.33	74.00	31.03	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



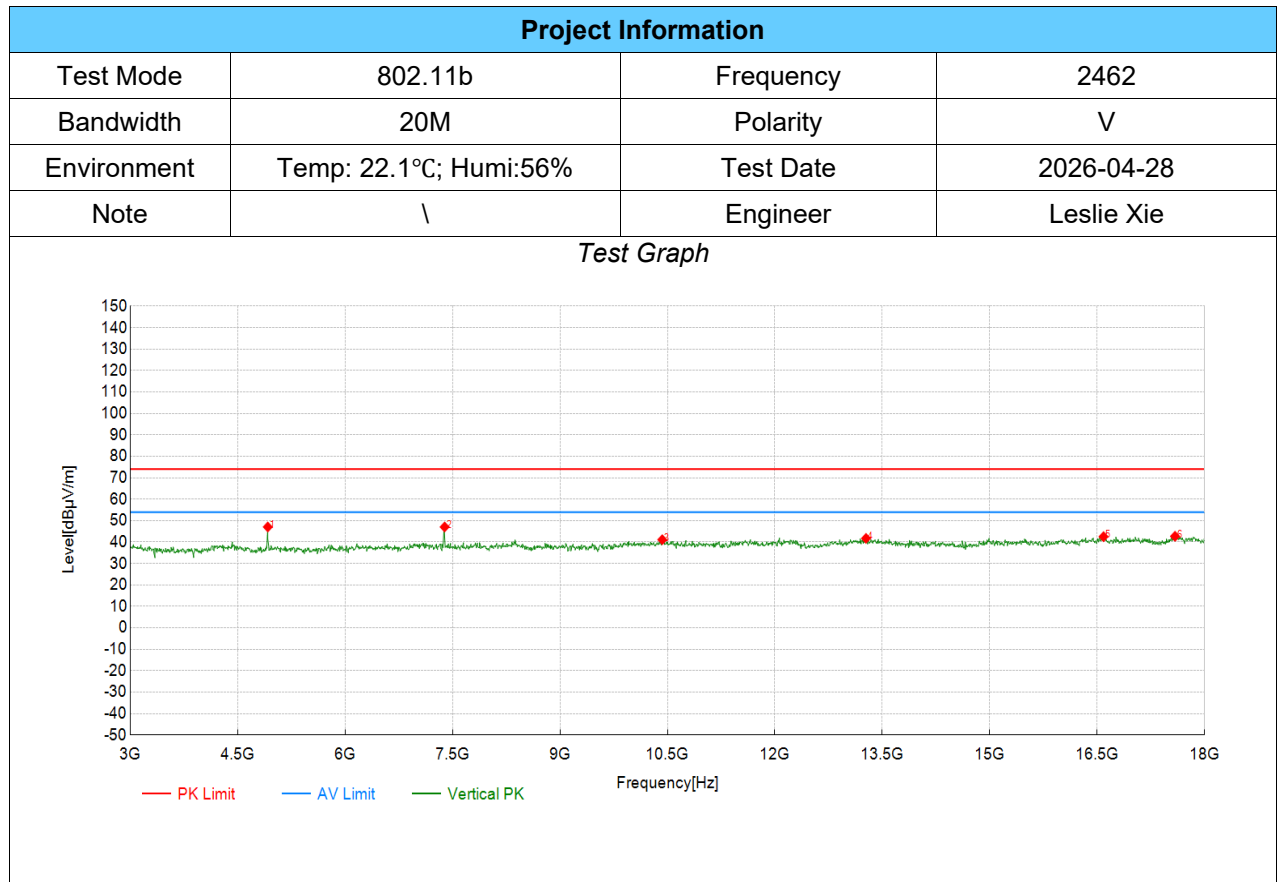
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4875.94	64.26	46.07	-18.19	74.00	27.93	PK	Vertical	PASS
2	7314.66	58.33	43.15	-15.18	74.00	30.85	PK	Vertical	PASS
3	10398.70	50.25	40.61	-9.64	74.00	33.39	PK	Vertical	PASS
4	12184.59	51.86	42.11	-9.75	74.00	31.89	PK	Vertical	PASS
5	13250.13	52.09	41.15	-10.94	74.00	32.85	PK	Vertical	PASS
6	17602.30	47.81	42.81	-5.00	74.00	31.19	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
 (2) Margin = Limit - Level



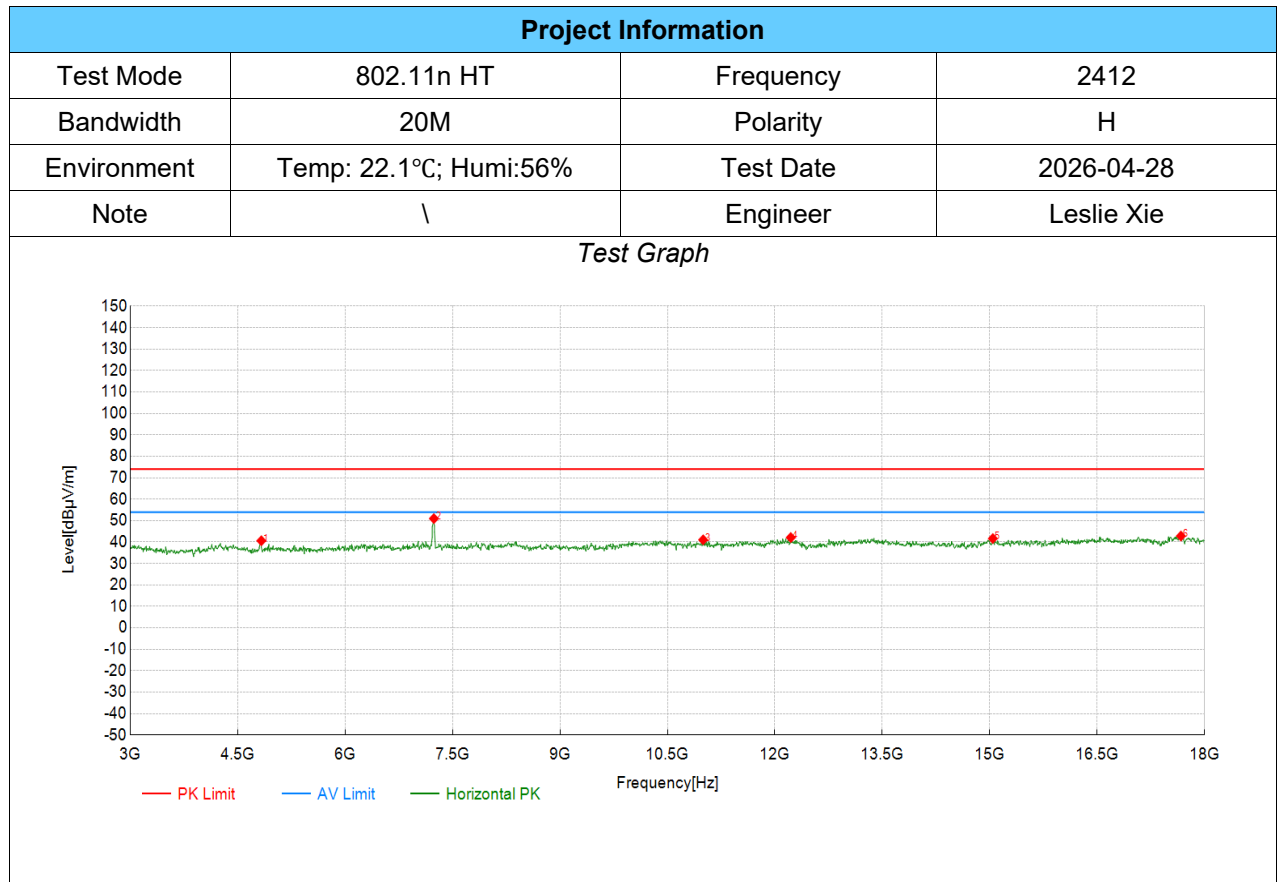
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4920.96	64.99	47.05	-17.94	74.00	26.95	PK	Horizontal	PASS
2	7382.19	64.93	49.79	-15.14	74.00	24.21	PK	Horizontal	PASS
3	10421.21	51.01	41.39	-9.62	74.00	32.61	PK	Horizontal	PASS
4	12124.56	50.65	40.94	-9.71	74.00	33.06	PK	Horizontal	PASS
5	15418.71	51.35	42.11	-9.24	74.00	31.89	PK	Horizontal	PASS
6	17662.33	48.93	43.89	-5.04	74.00	30.11	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level



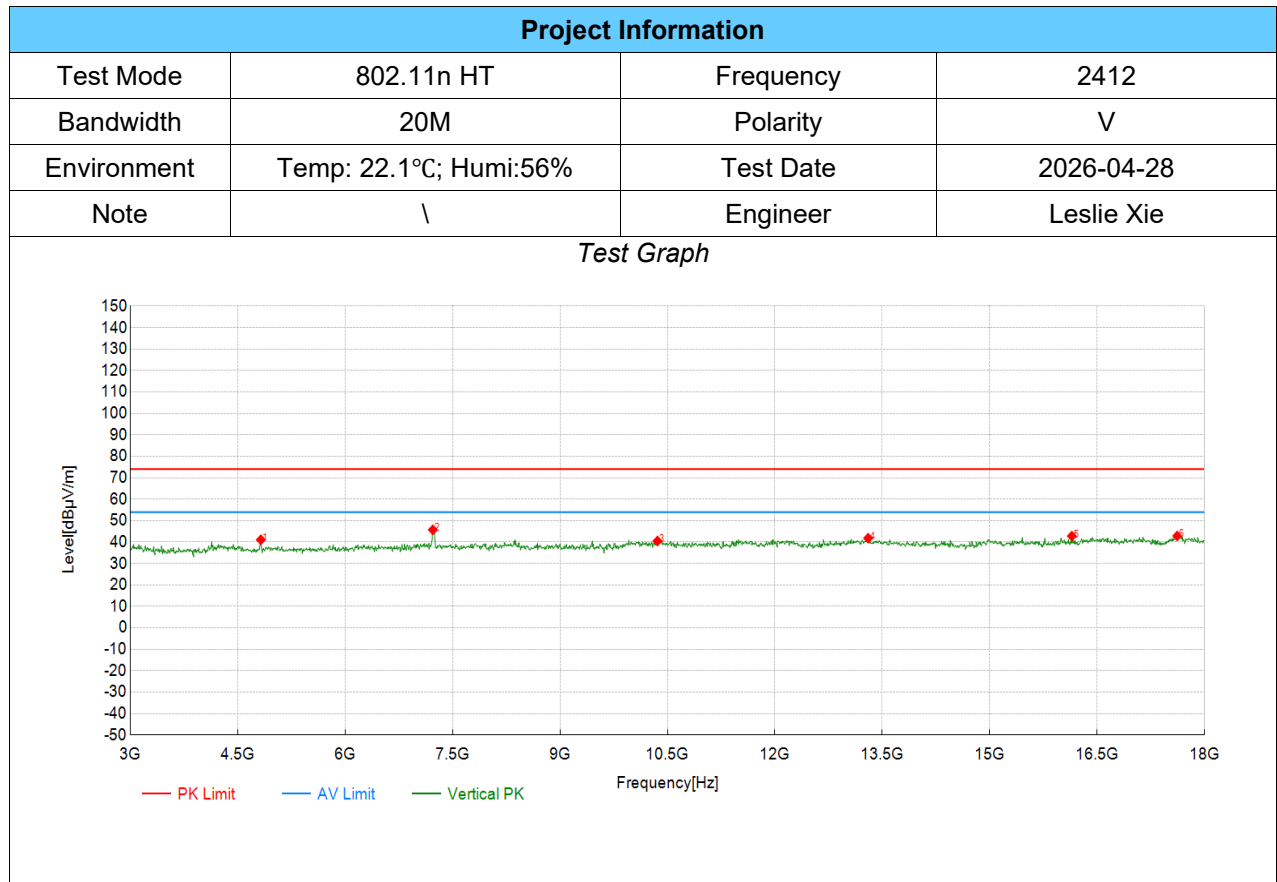
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4920.96	64.99	47.05	-17.94	74.00	26.95	PK	Vertical	PASS
2	7389.69	62.18	47.05	-15.13	74.00	26.95	PK	Vertical	PASS
3	10428.71	50.72	41.11	-9.61	74.00	32.89	PK	Vertical	PASS
4	13272.64	52.73	41.73	-11.00	74.00	32.27	PK	Vertical	PASS
5	16589.29	50.10	42.52	-7.58	74.00	31.48	PK	Vertical	PASS
6	17587.29	47.88	42.70	-5.18	74.00	31.30	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



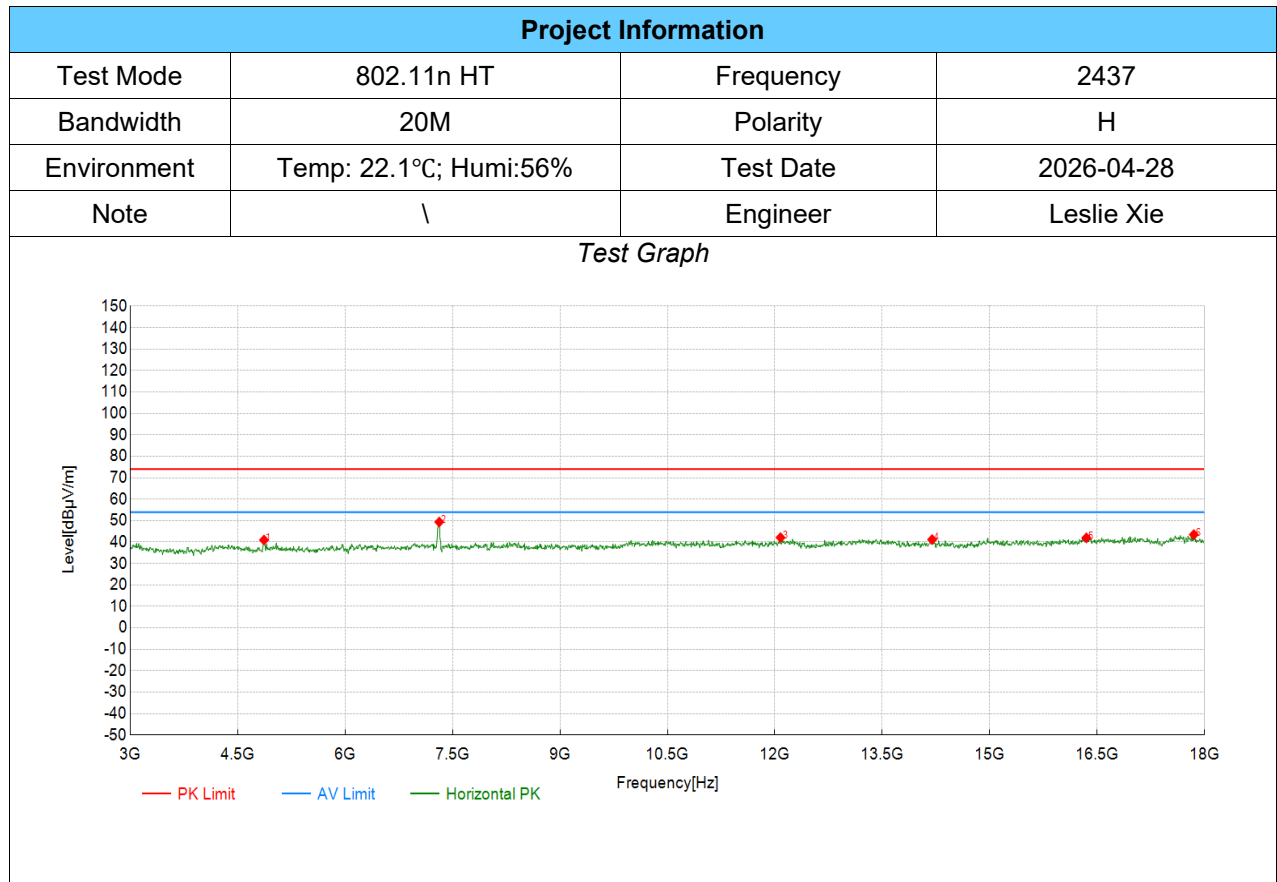
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4830.92	59.05	40.62	-18.43	74.00	33.38	PK	Horizontal	PASS
2	7239.62	66.16	50.95	-15.21	74.00	23.05	PK	Horizontal	PASS
3	10999.00	49.95	41.06	-8.89	74.00	32.94	PK	Horizontal	PASS
4	12222.11	52.03	42.12	-9.91	74.00	31.88	PK	Horizontal	PASS
5	15043.52	51.13	41.65	-9.48	74.00	32.35	PK	Horizontal	PASS
6	17669.83	47.87	42.83	-5.04	74.00	31.17	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level



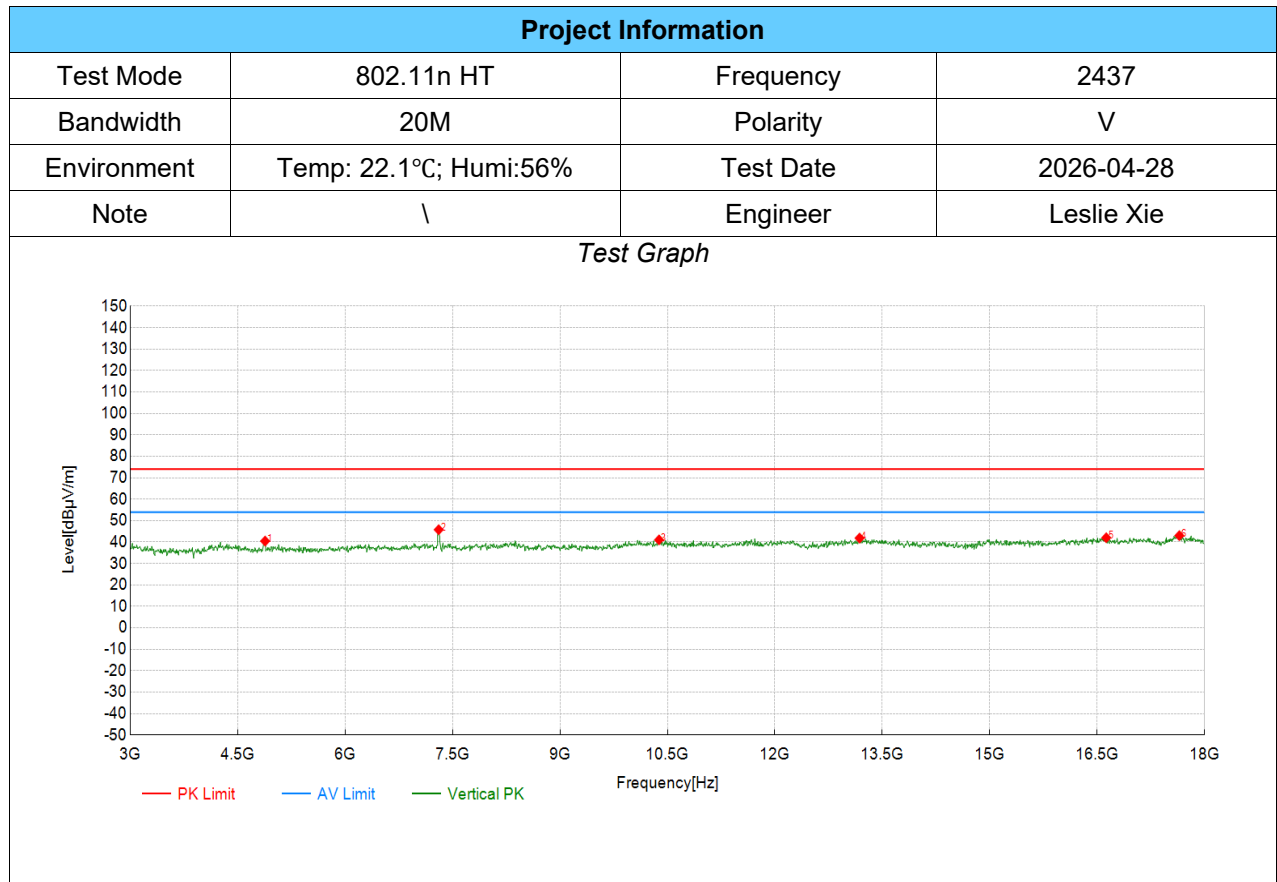
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4823.41	59.56	41.09	-18.47	74.00	32.91	PK	Vertical	PASS
2	7224.61	60.95	45.72	-15.23	74.00	28.28	PK	Vertical	PASS
3	10361.18	50.47	40.51	-9.96	74.00	33.49	PK	Vertical	PASS
4	13302.65	52.88	41.81	-11.07	74.00	32.19	PK	Vertical	PASS
5	16146.57	51.35	42.78	-8.57	74.00	31.22	PK	Vertical	PASS
6	17617.31	47.86	42.84	-5.02	74.00	31.16	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level



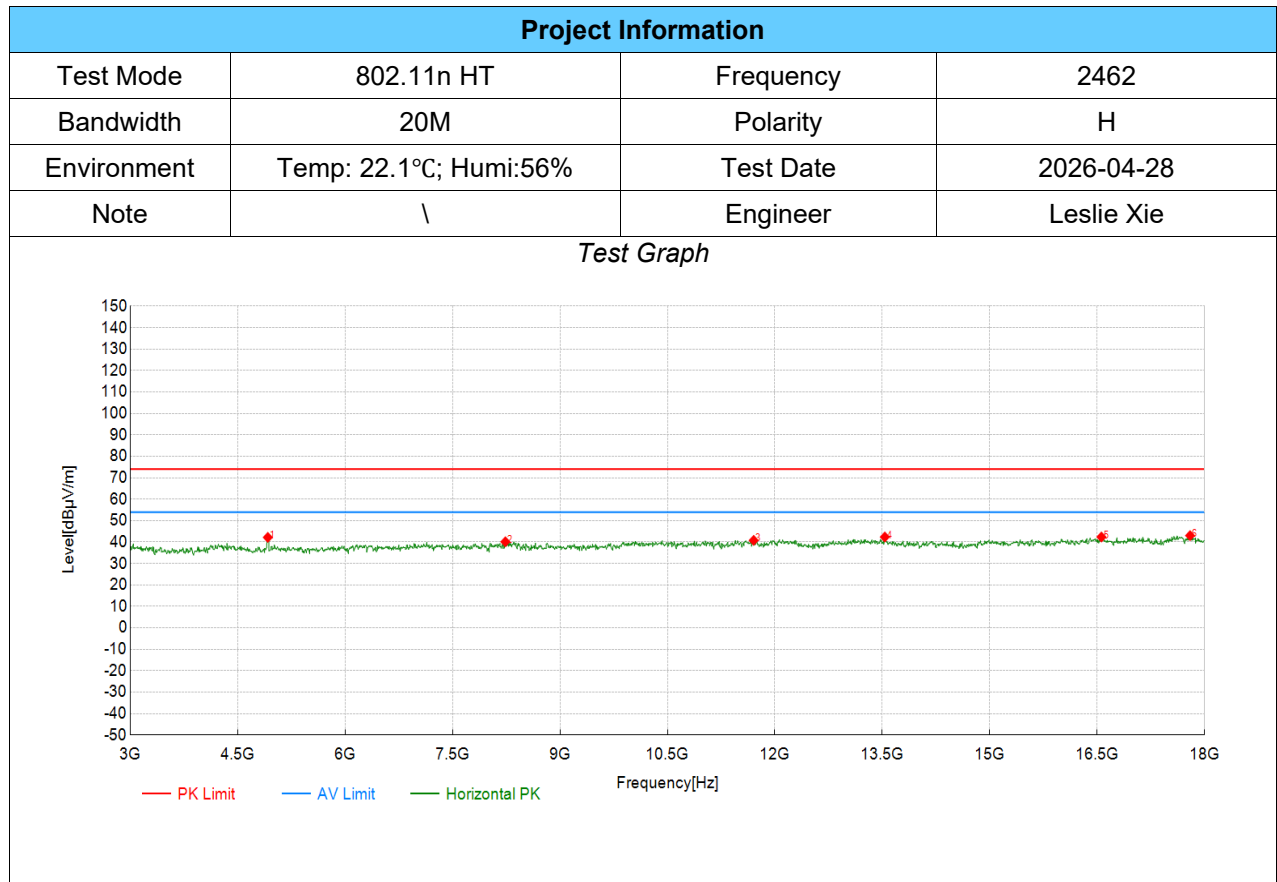
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4868.43	59.18	40.95	-18.23	74.00	33.05	PK	Horizontal	PASS
2	7314.66	64.54	49.36	-15.18	74.00	24.64	PK	Horizontal	PASS
3	12079.54	51.78	42.10	-9.68	74.00	31.90	PK	Horizontal	PASS
4	14195.60	51.77	41.19	-10.58	74.00	32.81	PK	Horizontal	PASS
5	16349.17	50.23	41.97	-8.26	74.00	32.03	PK	Horizontal	PASS
6	17849.92	48.78	43.47	-5.31	74.00	30.53	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
 (2) Margin = Limit - Level



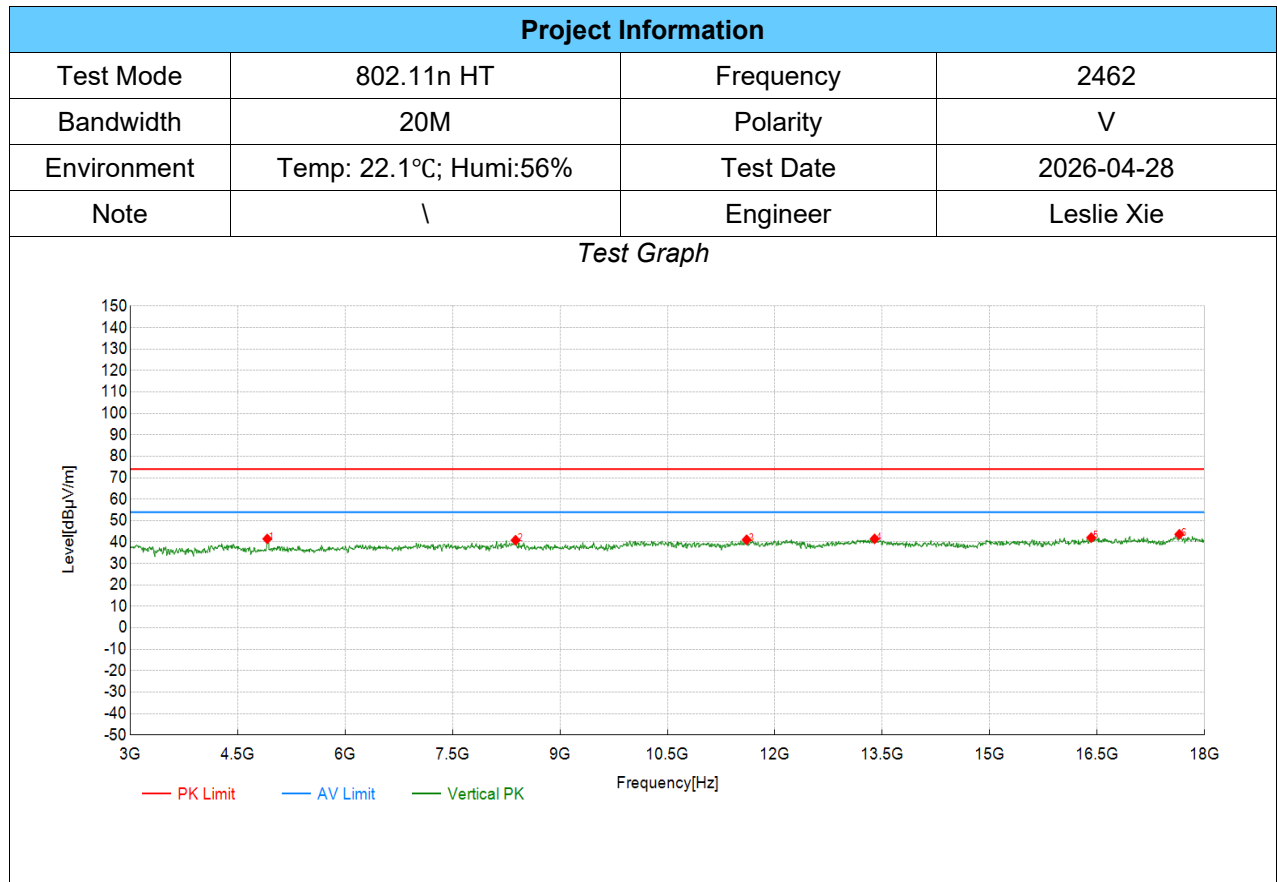
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4883.44	58.62	40.47	-18.15	74.00	33.53	PK	Vertical	PASS
2	7307.15	60.95	45.77	-15.18	74.00	28.23	PK	Vertical	PASS
3	10383.69	50.81	41.04	-9.77	74.00	32.96	PK	Vertical	PASS
4	13182.59	52.75	41.86	-10.89	74.00	32.14	PK	Vertical	PASS
5	16626.81	49.61	42.02	-7.59	74.00	31.98	PK	Vertical	PASS
6	17647.32	48.04	43.01	-5.03	74.00	30.99	PK	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4920.96	60.13	42.19	-17.94	74.00	31.81	PK	Horizontal	PASS
2	8237.62	54.11	40.16	-13.95	74.00	33.84	PK	Horizontal	PASS
3	11704.35	50.27	40.81	-9.46	74.00	33.19	PK	Horizontal	PASS
4	13535.27	54.45	42.36	-12.09	74.00	31.64	PK	Horizontal	PASS
5	16559.28	50.02	42.37	-7.65	74.00	31.63	PK	Horizontal	PASS
6	17797.40	48.14	43.02	-5.12	74.00	30.98	PK	Horizontal	PASS

Note: (1) Level = Reading + Factor
 (2) Margin = Limit - Level

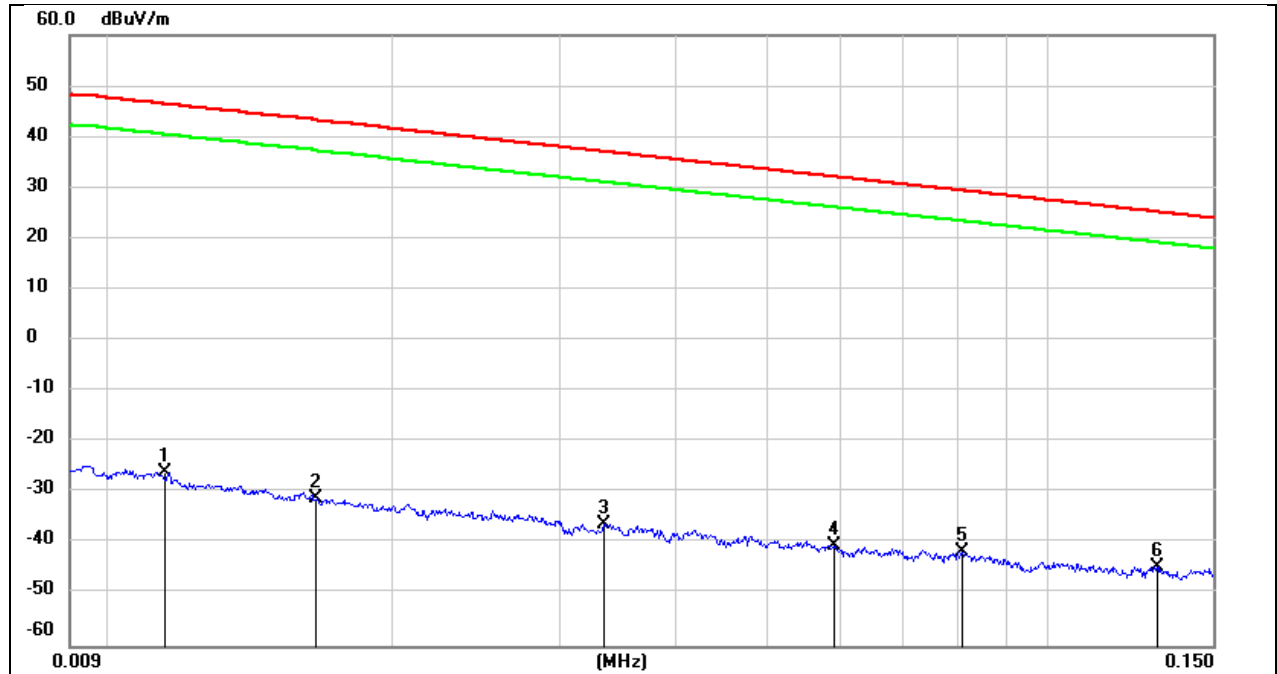


PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4913.46	59.46	41.48	-17.98	74.00	32.52	PK	Vertical	PASS
2	8380.19	53.50	40.85	-12.65	74.00	33.15	PK	Vertical	PASS
3	11606.80	49.72	41.07	-8.65	74.00	32.93	PK	Vertical	PASS
4	13392.70	52.77	41.49	-11.28	74.00	32.51	PK	Vertical	PASS
5	16416.71	50.14	42.08	-8.06	74.00	31.92	PK	Vertical	PASS
6	17647.32	48.65	43.62	-5.03	74.00	30.38	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
 (2)Margin=Limit-Level

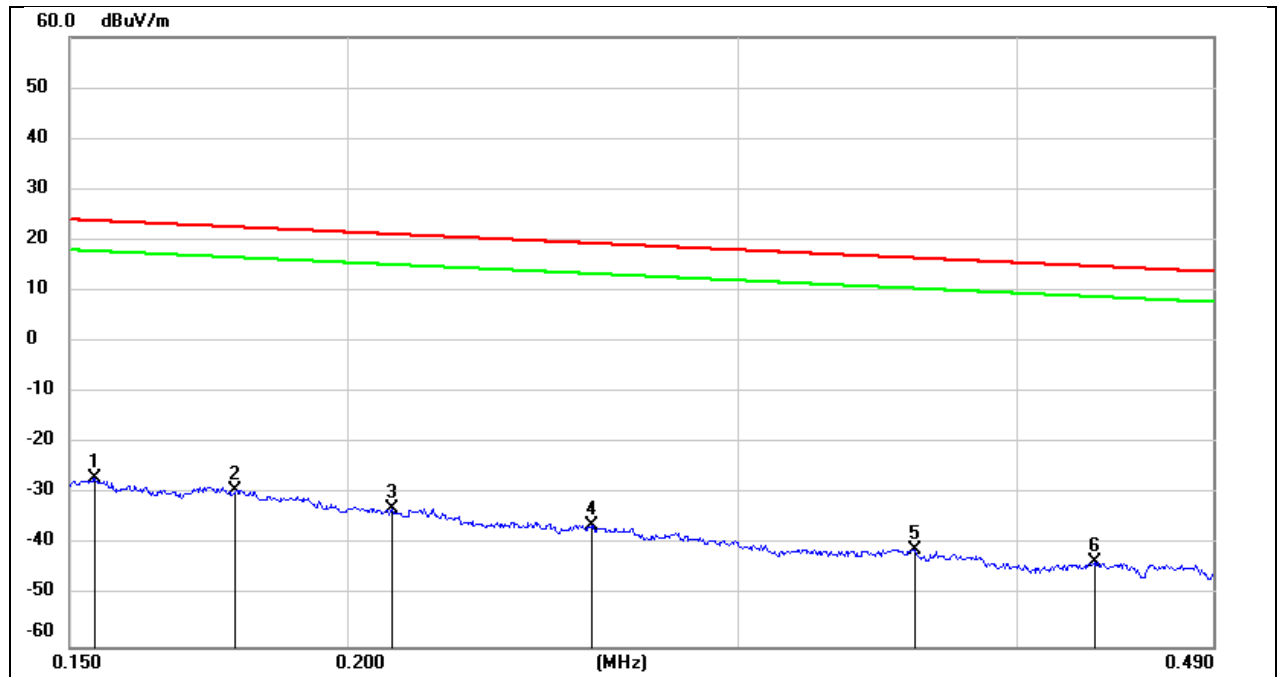
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Face on the loop	Test Voltage:	DC 12V



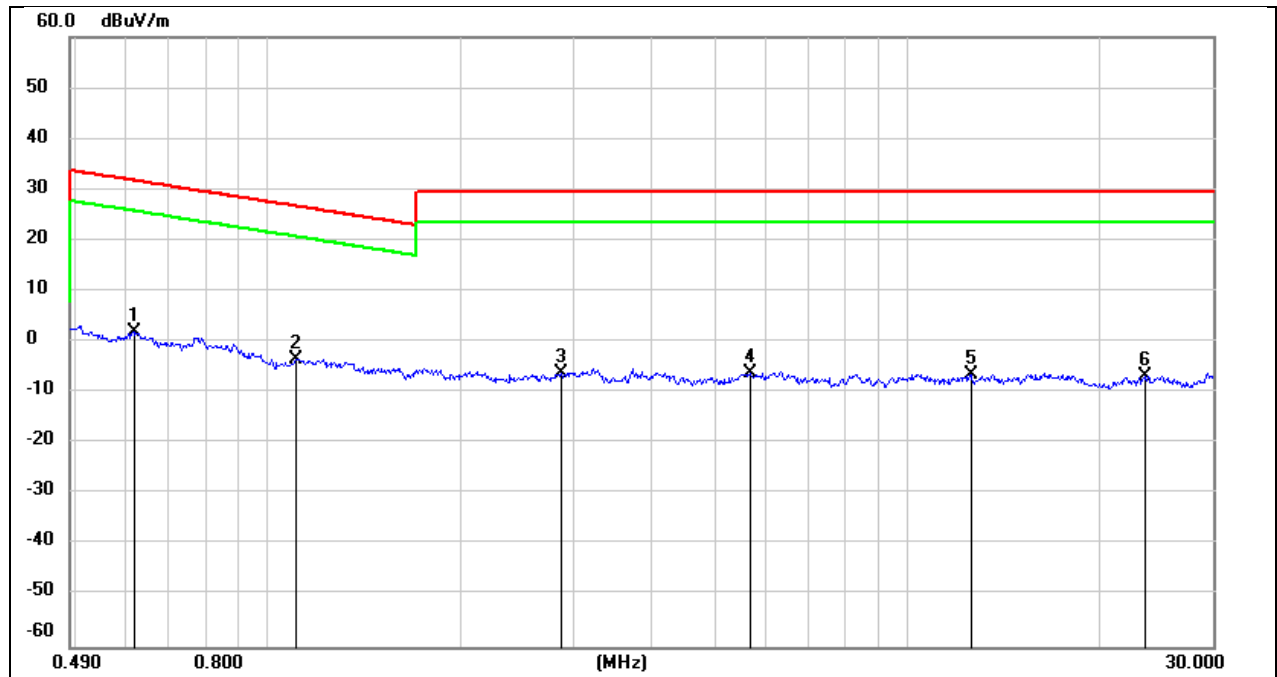
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.0114	75.50	-101.40	-25.90	46.46	-77.40	-5.04	-72.36	peak
2	0.0165	70.34	-101.37	-31.03	43.25	-82.53	-8.25	-74.28	peak
3	0.0335	65.33	-101.40	-36.07	37.10	-87.57	-14.40	-73.17	peak
4	0.0589	61.31	-101.52	-40.21	32.20	-91.71	-19.30	-72.41	peak
5	0.0806	60.18	-101.63	-41.45	29.47	-92.95	-22.03	-70.92	peak
6	0.1307	57.27	-101.70	-44.43	25.28	-95.93	-26.22	-69.71	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Face on the loop	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.1539	74.73	-101.64	-26.91	23.86	-78.41	-27.64	-50.77	peak
2	0.1781	72.35	-101.68	-29.33	22.59	-80.83	-28.91	-51.92	peak
3	0.2094	68.82	-101.73	-32.91	21.18	-84.41	-30.32	-54.09	peak
4	0.2575	65.77	-101.80	-36.03	19.39	-87.53	-32.11	-55.42	peak
5	0.3600	61.01	-101.91	-40.90	16.48	-92.40	-35.02	-57.38	peak
6	0.4339	58.62	-101.99	-43.37	14.85	-94.87	-36.65	-58.22	peak

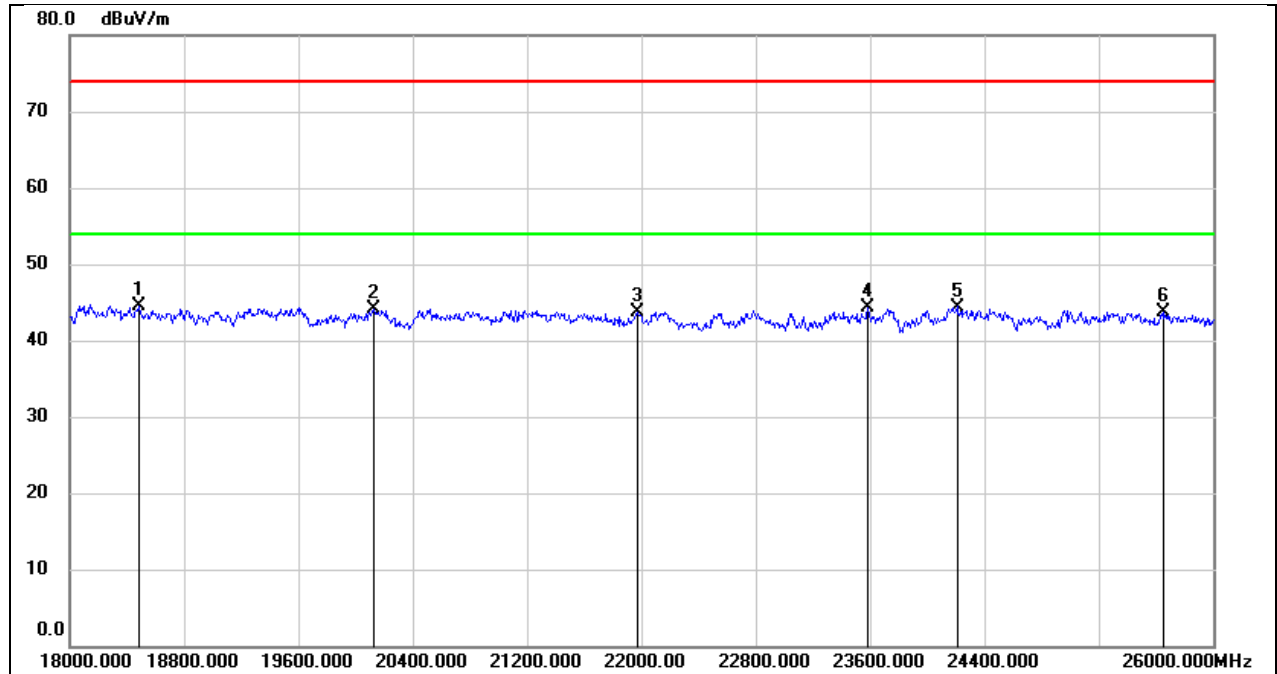
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Face on the loop	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	ISED Result (dBuA/m)	ISED Limit (dBuA/m)	Margin (dB)	Remark
1	0.6169	64.05	-62.08	1.97	31.80	-49.53	-19.70	-29.83	peak
2	1.1088	58.82	-62.22	-3.40	26.71	-54.90	-24.79	-30.11	peak
3	2.8803	55.34	-61.60	-6.26	29.54	-57.76	-21.96	-35.80	peak
4	5.6836	55.35	-61.40	-6.05	29.54	-57.55	-21.96	-35.59	peak
5	12.5891	54.58	-60.91	-6.33	29.54	-57.83	-21.96	-35.87	peak
6	23.4783	53.74	-60.56	-6.82	29.54	-58.32	-21.96	-36.36	peak

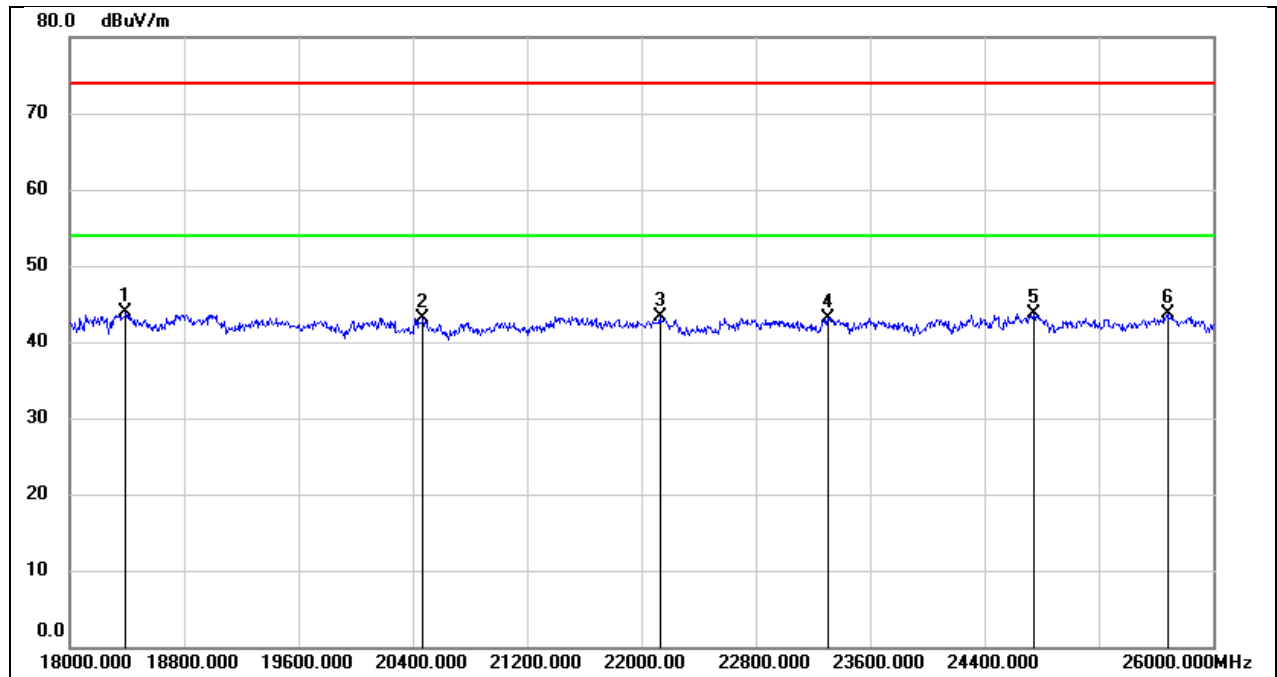
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18480.000	49.81	-5.28	44.53	74.00	-29.47	peak
2	20128.000	49.62	-5.53	44.09	74.00	-29.91	peak
3	21968.000	48.25	-4.46	43.79	74.00	-30.21	peak
4	23584.000	47.42	-3.15	44.27	74.00	-29.73	peak
5	24208.000	47.21	-2.81	44.40	74.00	-29.60	peak
6	25648.000	44.73	-1.09	43.64	74.00	-30.36	peak

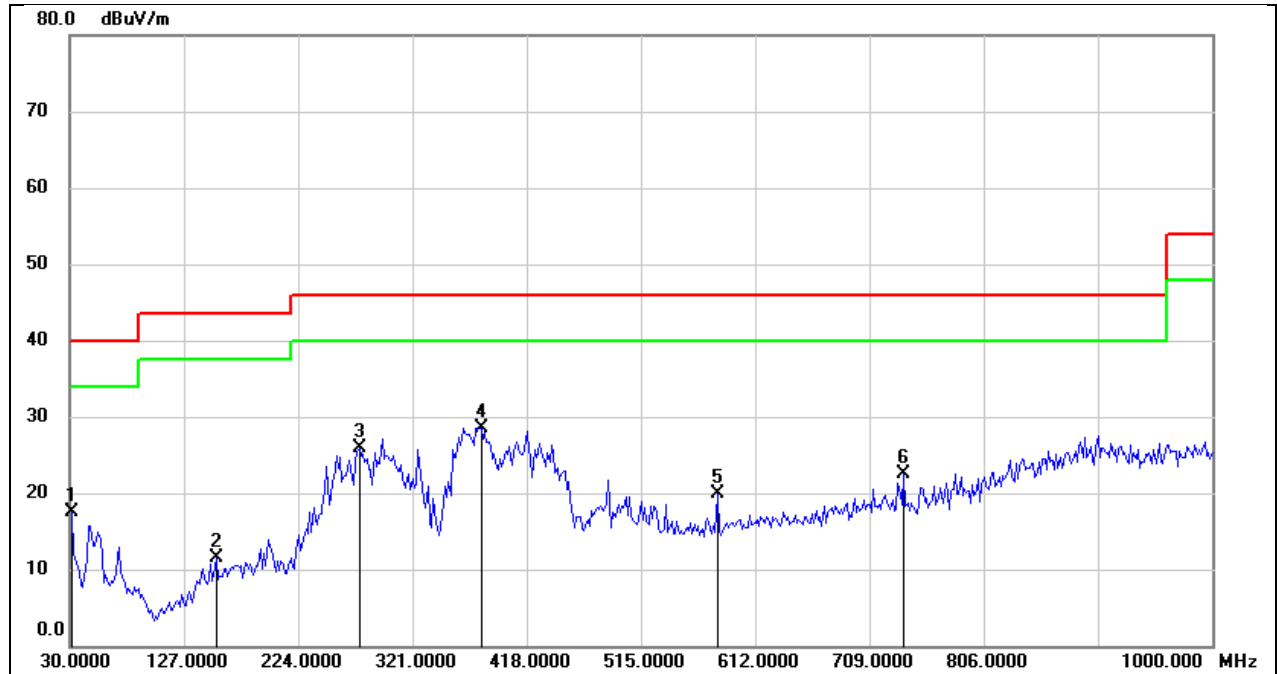
Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18392.000	49.25	-5.38	43.87	74.00	-30.13	peak
2	20472.000	48.57	-5.39	43.18	74.00	-30.82	peak
3	22128.000	47.68	-4.34	43.34	74.00	-30.66	peak
4	23304.000	46.48	-3.32	43.16	74.00	-30.84	peak
5	24744.000	46.06	-2.32	43.74	74.00	-30.26	peak
6	25680.000	44.67	-0.93	43.74	74.00	-30.26	peak

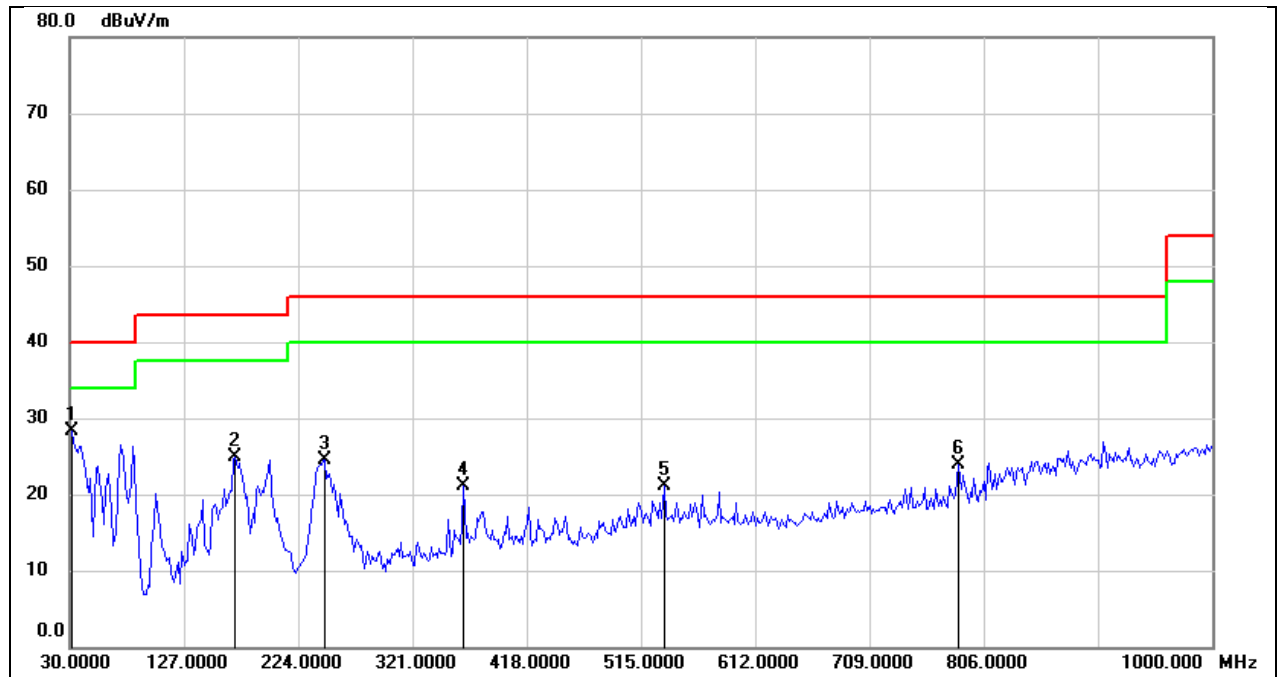
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Horizontal	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.6167	32.06	-14.61	17.45	40.00	-22.55	peak
2	154.4832	24.71	-13.26	11.45	43.50	-32.05	peak
3	275.7333	38.76	-12.93	25.83	46.00	-20.17	peak
4	379.2000	38.09	-9.51	28.58	46.00	-17.42	peak
5	579.6667	26.00	-6.01	19.99	46.00	-26.01	peak
6	738.1000	26.09	-3.57	22.52	46.00	-23.48	peak

Test Mode:	802.11b	Frequency(MHz):	2412
Polarity:	Vertical	Test Voltage:	DC 12V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.6167	42.95	-14.61	28.34	40.00	-11.66	peak
2	170.6500	36.97	-12.14	24.83	43.50	-18.67	peak
3	246.6333	38.89	-14.45	24.44	46.00	-21.56	peak
4	364.6500	30.66	-9.46	21.20	46.00	-24.80	peak
5	534.4000	27.89	-6.85	21.04	46.00	-24.96	peak
6	784.9833	26.67	-2.84	23.83	46.00	-22.17	peak

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC part 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to FCC 47 CFR §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

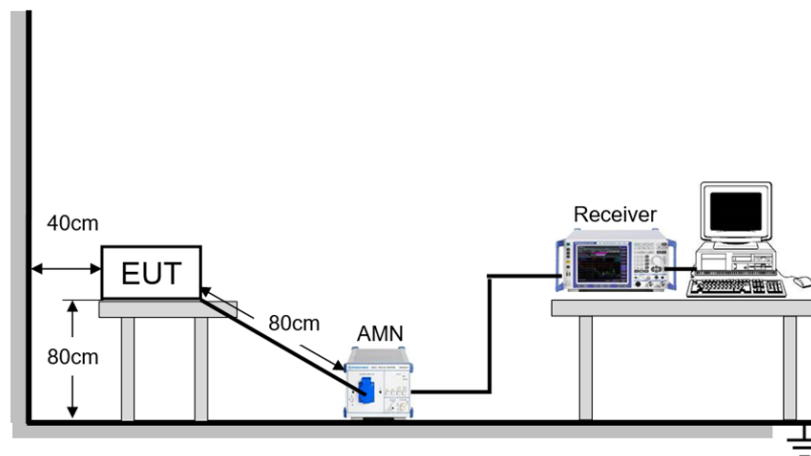
*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

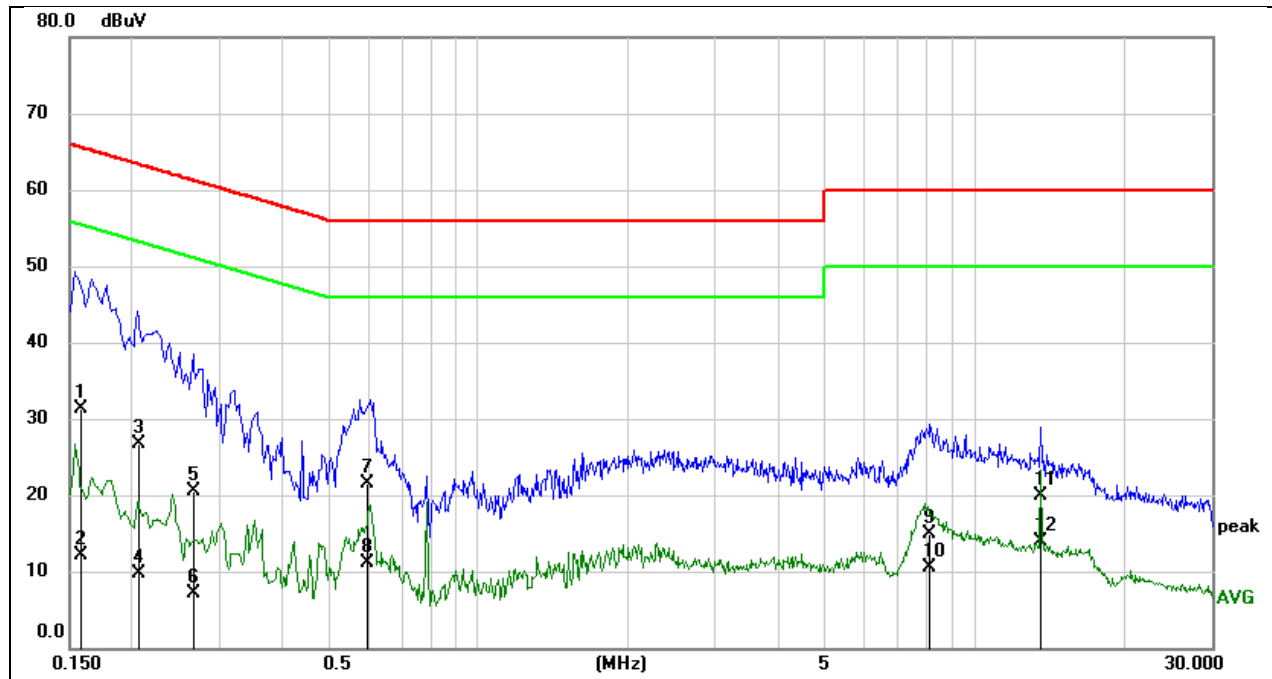
Temperature	24.3°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V 60Hz

TEST DATE / ENGINEER

Test Date	May 12, 2026	Test By	Johnson Liu
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TEST RESULTS

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Line		



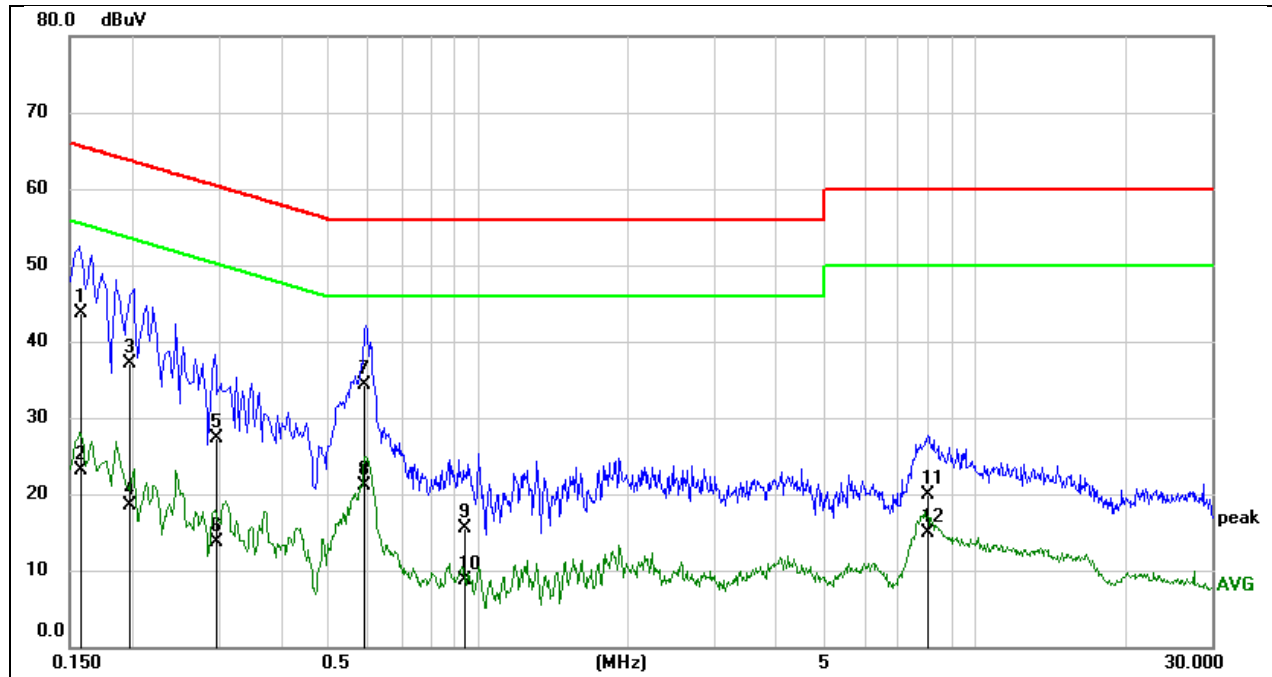
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1581	21.53	9.81	31.34	65.56	-34.22	QP
2	0.1581	2.33	9.81	12.14	55.56	-43.42	AVG
3	0.2062	17.08	9.64	26.72	63.36	-36.64	QP
4	0.2062	0.09	9.64	9.73	53.36	-43.63	AVG
5	0.2666	10.83	9.66	20.49	61.22	-40.73	QP
6	0.2666	-2.52	9.66	7.14	51.22	-44.08	AVG
7	0.5959	11.96	9.64	21.60	56.00	-34.40	QP
8	0.5959	1.54	9.64	11.18	46.00	-34.82	AVG
9	8.1211	5.18	9.76	14.94	60.00	-45.06	QP
10	8.1211	0.78	9.76	10.54	50.00	-39.46	AVG
11	13.5599	10.04	9.78	19.82	60.00	-40.18	QP
12	13.5599	4.05	9.78	13.83	50.00	-36.17	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	802.11b	Frequency(MHz):	2412
Line:	Neutral		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1587	33.88	9.80	43.68	65.53	-21.85	QP
2	0.1587	13.26	9.80	23.06	55.53	-32.47	AVG
3	0.1983	27.53	9.65	37.18	63.68	-26.50	QP
4	0.1983	8.82	9.65	18.47	53.68	-35.21	AVG
5	0.2956	17.59	9.67	27.26	60.37	-33.11	QP
6	0.2956	4.05	9.67	13.72	50.37	-36.65	AVG
7	0.5875	24.62	9.65	34.27	56.00	-21.73	QP
8	0.5875	11.50	9.65	21.15	46.00	-24.85	AVG
9	0.9442	5.86	9.69	15.55	56.00	-40.45	QP
10	0.9442	-1.08	9.69	8.61	46.00	-37.39	AVG
11	7.9844	10.13	9.76	19.89	60.00	-40.11	QP
12	7.9844	5.08	9.76	14.84	50.00	-35.16	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

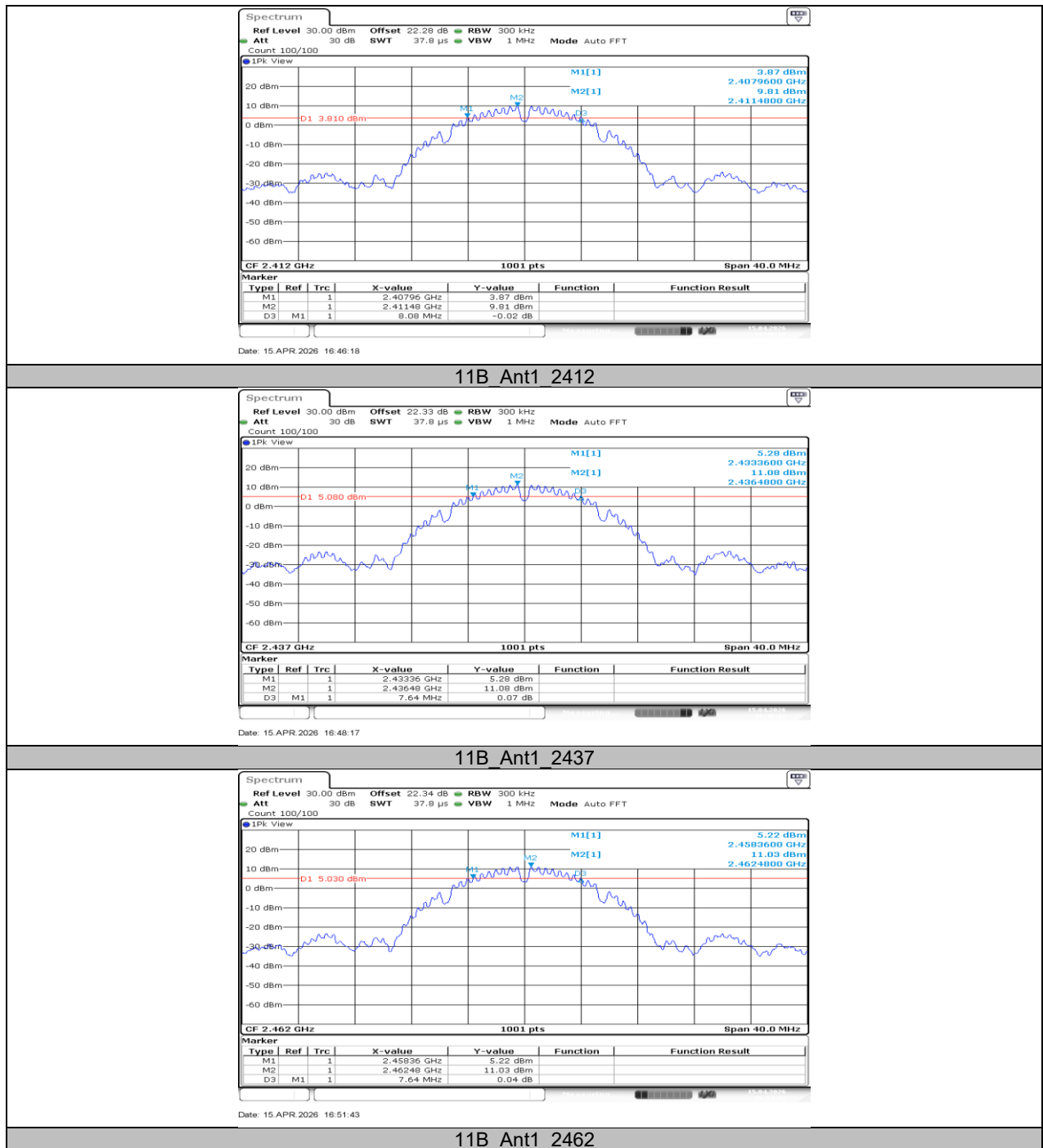
11. TEST DATA

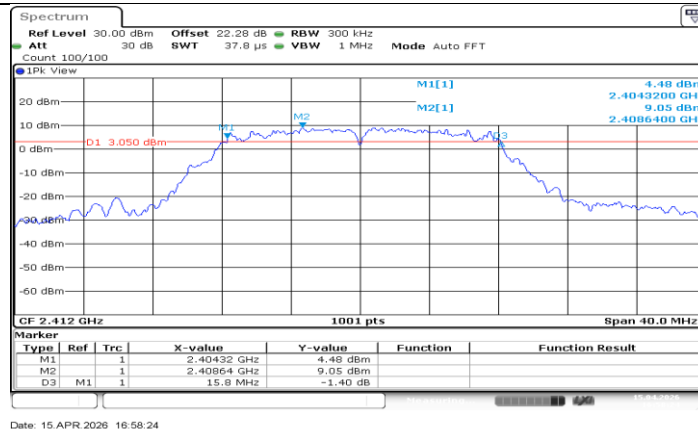
11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

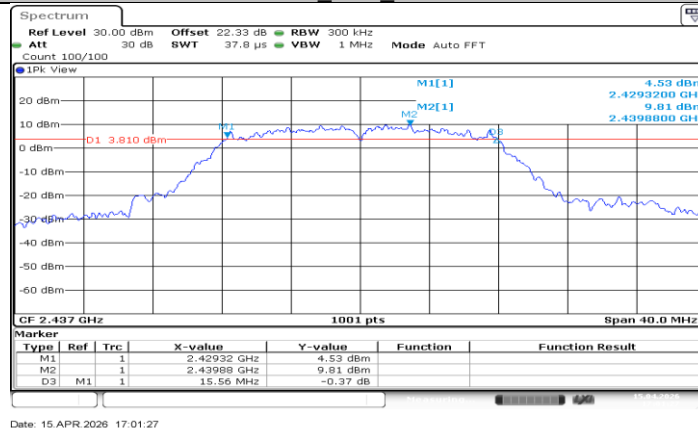
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.08	2407.96	2416.04	≥ 0.5	PASS
		2437	7.64	2433.36	2441.00	≥ 0.5	PASS
		2462	7.64	2458.36	2466.00	≥ 0.5	PASS
11G	Ant1	2412	15.80	2404.32	2420.12	≥ 0.5	PASS
		2437	15.56	2429.32	2444.88	≥ 0.5	PASS
		2462	15.84	2453.96	2469.80	≥ 0.5	PASS
11N20SISO	Ant1	2412	17.04	2403.60	2420.64	≥ 0.5	PASS
		2437	16.92	2428.64	2445.56	≥ 0.5	PASS
		2462	17.08	2453.40	2470.48	≥ 0.5	PASS

11.1.2. Test Graphs

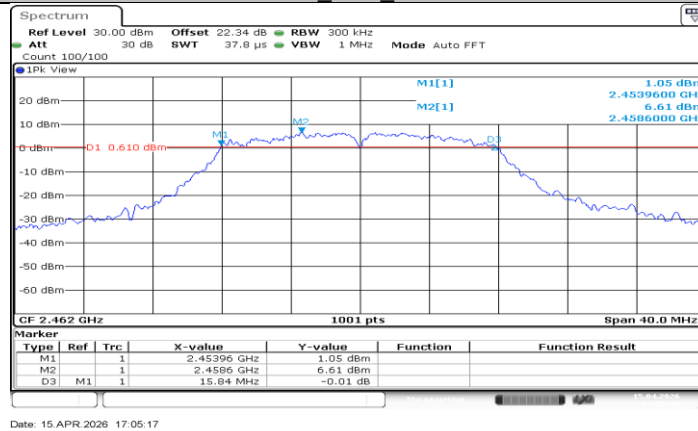




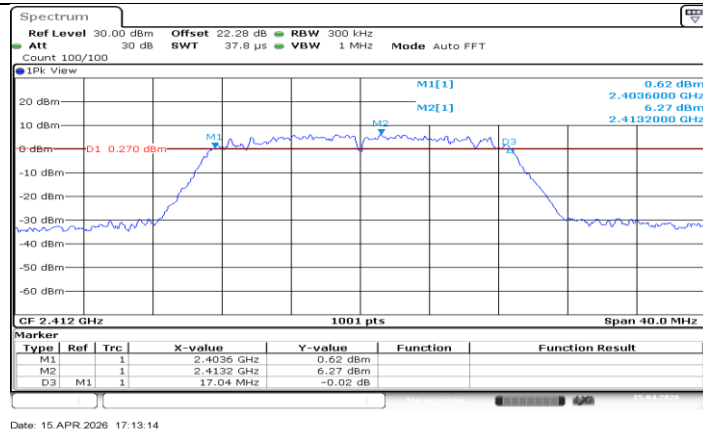
11G_Ant1_2412



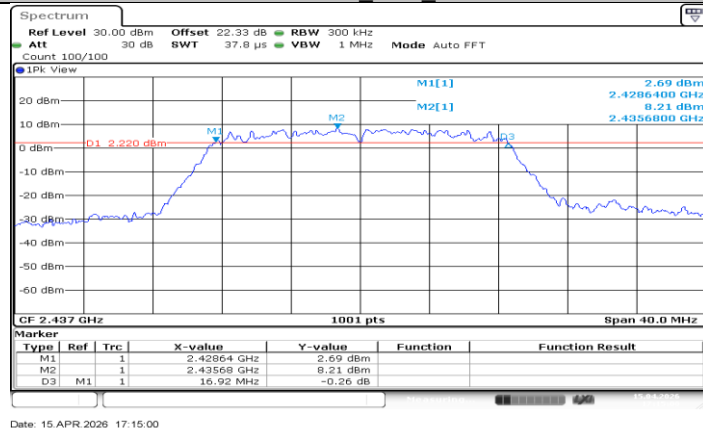
11G_Ant1_2437



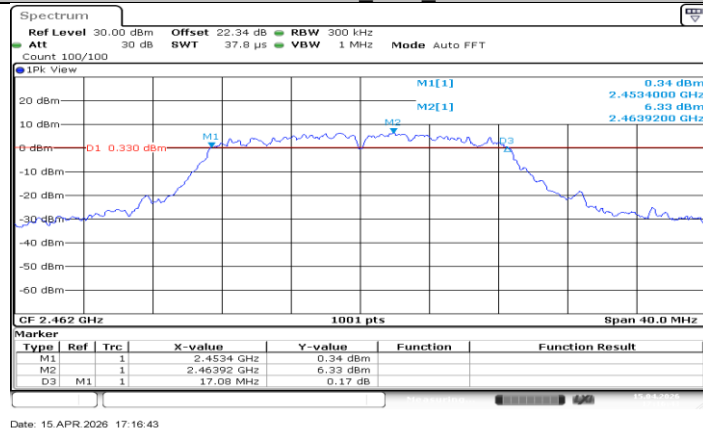
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

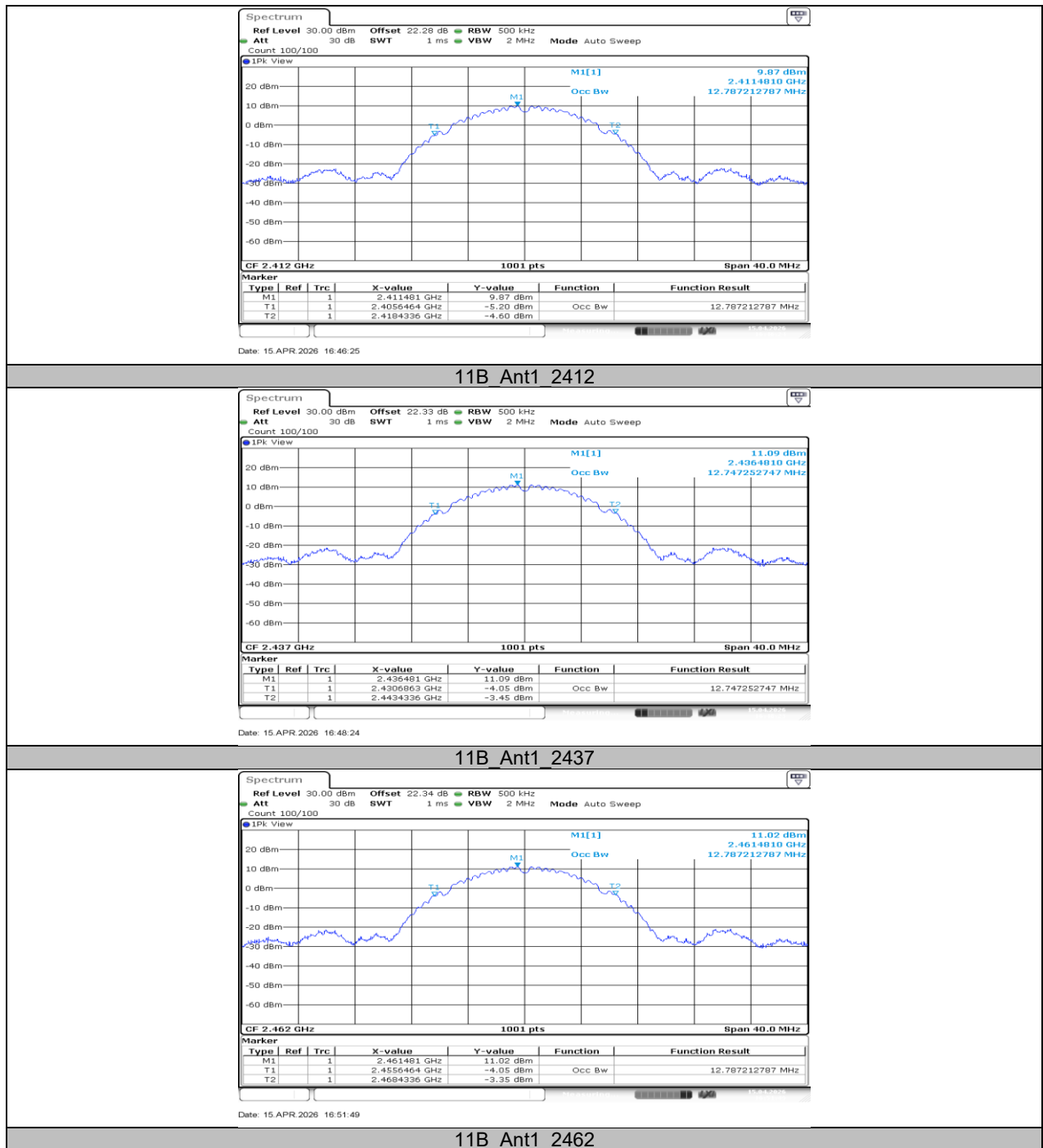


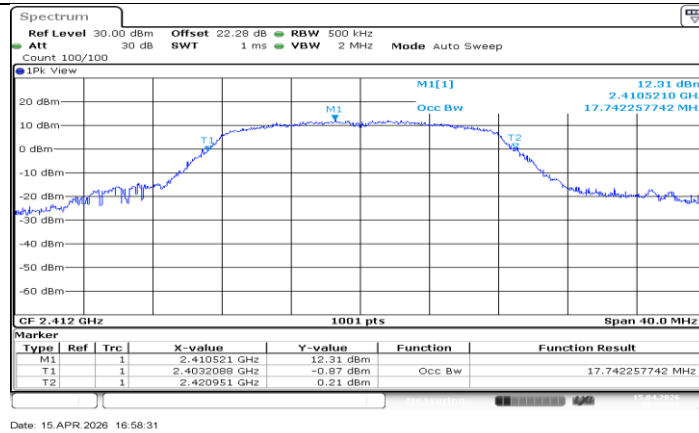
11N20SISO_Ant1_2462

11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH**11.2.1. Test Result**

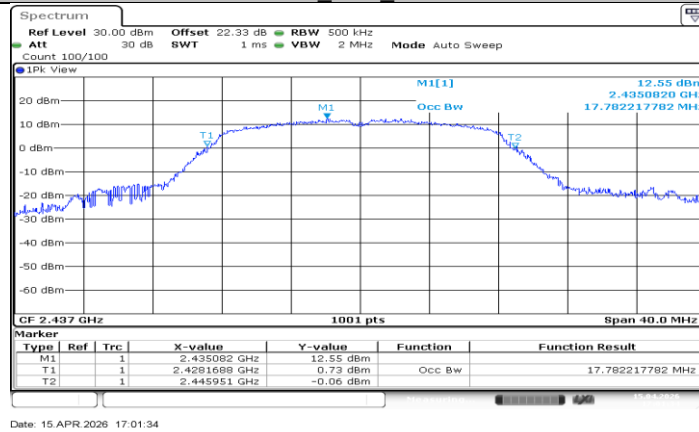
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B	Ant1	2412	12.787	2405.6464	2418.4336	PASS
		2437	12.747	2430.6863	2443.4336	PASS
		2462	12.787	2455.6464	2468.4336	PASS
11G	Ant1	2412	17.742	2403.2088	2420.9510	PASS
		2437	17.782	2428.1688	2445.9510	PASS
		2462	18.462	2452.8891	2471.3506	PASS
11N20SISO	Ant1	2412	18.142	2402.9690	2421.1109	PASS
		2437	17.942	2428.0490	2445.9910	PASS
		2462	18.342	2452.9690	2471.3107	PASS

11.2.2. Test Graphs

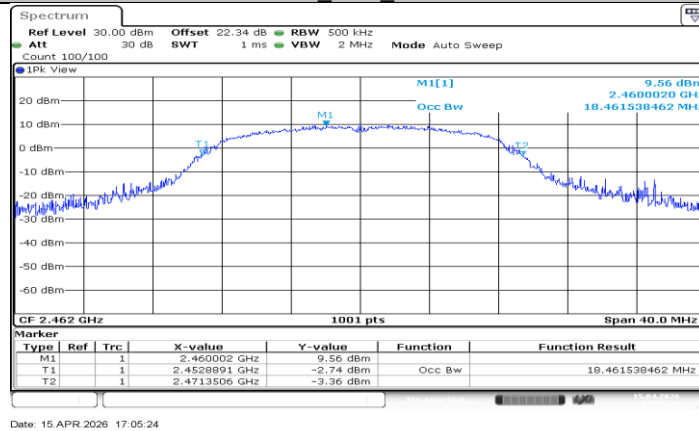




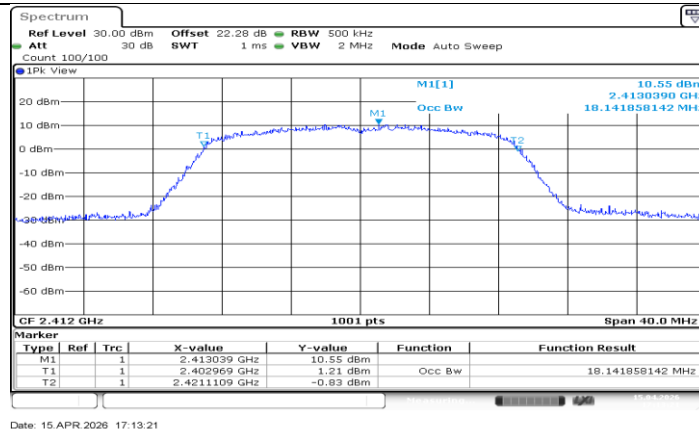
11G_Ant1_2412



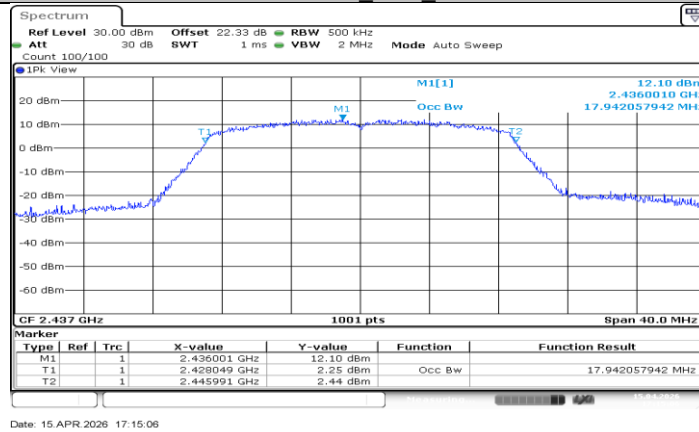
11G_Ant1_2437



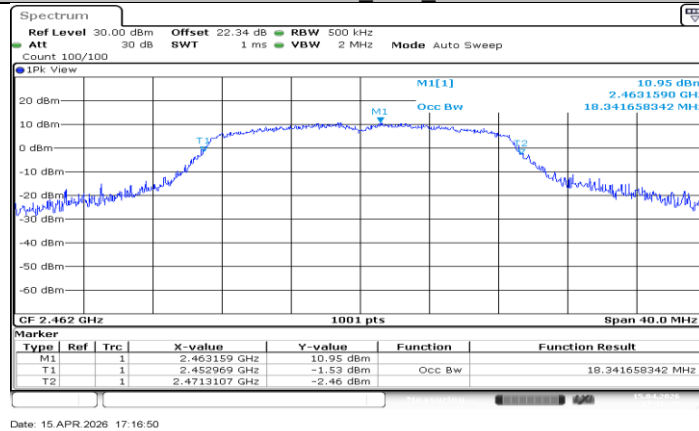
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER**11.3.1. Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.58	≤30.00	PASS
		2437	17.76	≤30.00	PASS
		2462	17.79	≤30.00	PASS
11G	Ant1	2412	15.40	≤30.00	PASS
		2437	15.53	≤30.00	PASS
		2462	14.74	≤30.00	PASS
11N20SISO	Ant1	2412	14.54	≤30.00	PASS
		2437	14.85	≤30.00	PASS
		2462	14.77	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

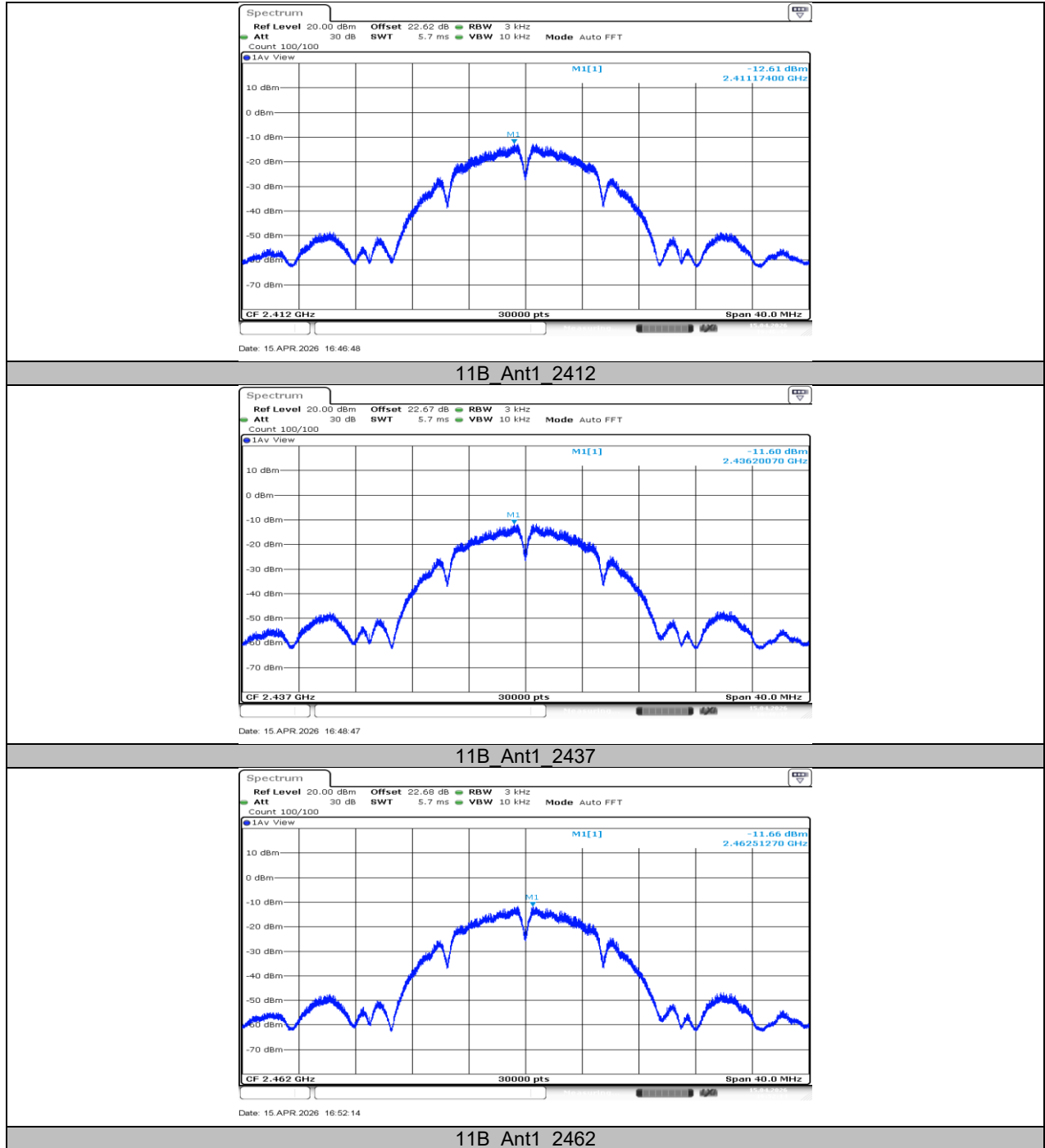
2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

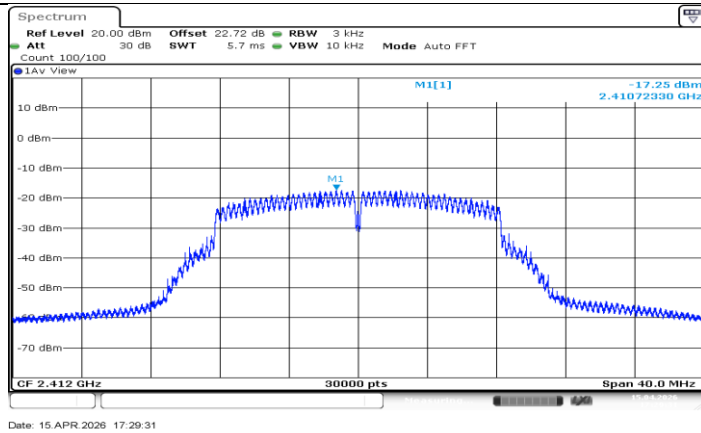
11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY**11.4.1. Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.61	≤8.00	PASS
		2437	-11.60	≤8.00	PASS
		2462	-11.66	≤8.00	PASS
11G	Ant1	2412	-17.25	≤8.00	PASS
		2437	-17.23	≤8.00	PASS
		2462	-18.07	≤8.00	PASS
11N20SISO	Ant1	2412	-15.24	≤8.00	PASS
		2437	-14.69	≤8.00	PASS
		2462	-14.90	≤8.00	PASS

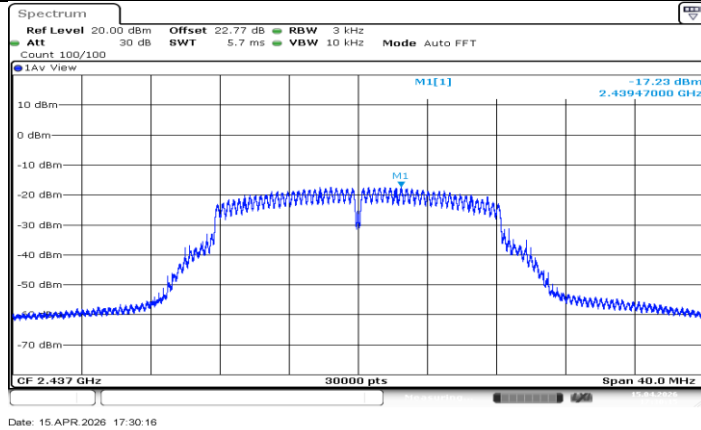
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

11.4.2. Test Graphs

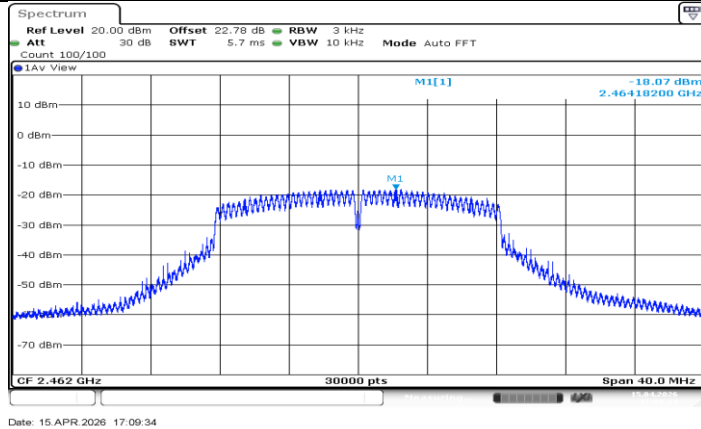




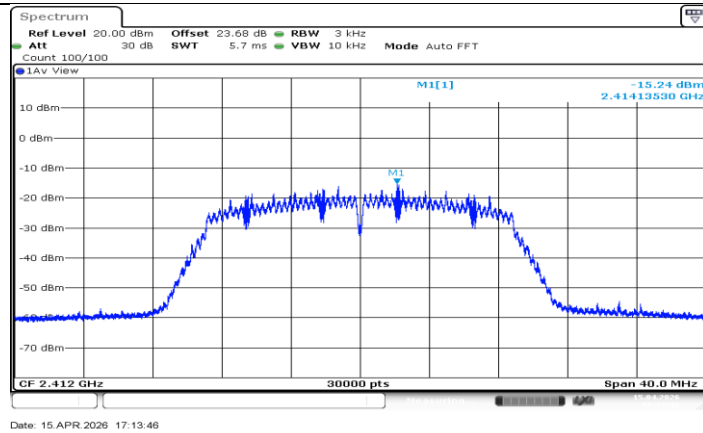
11G_Ant1_2412



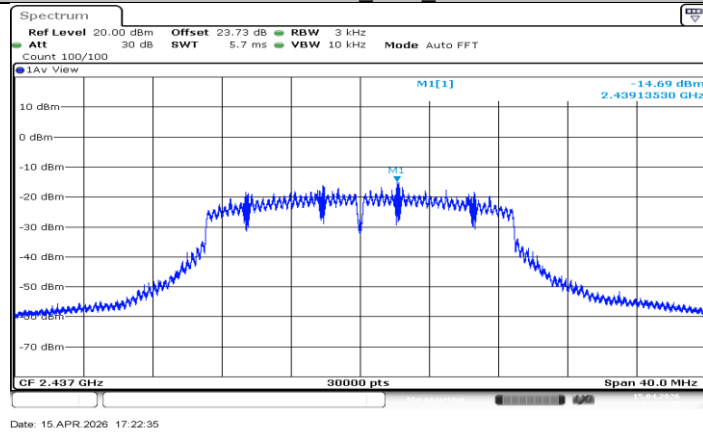
11G_Ant1_2437



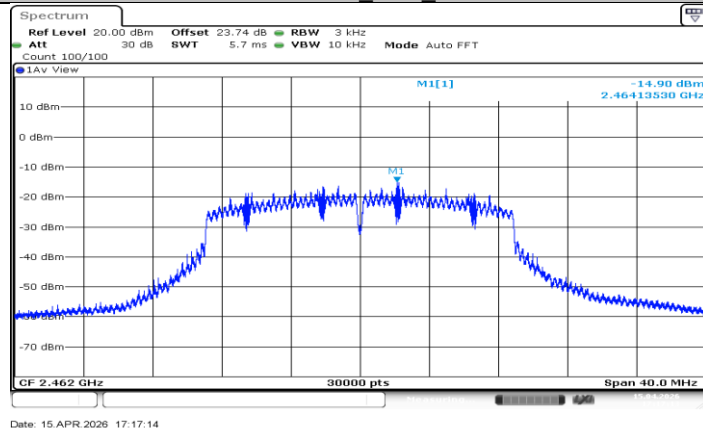
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

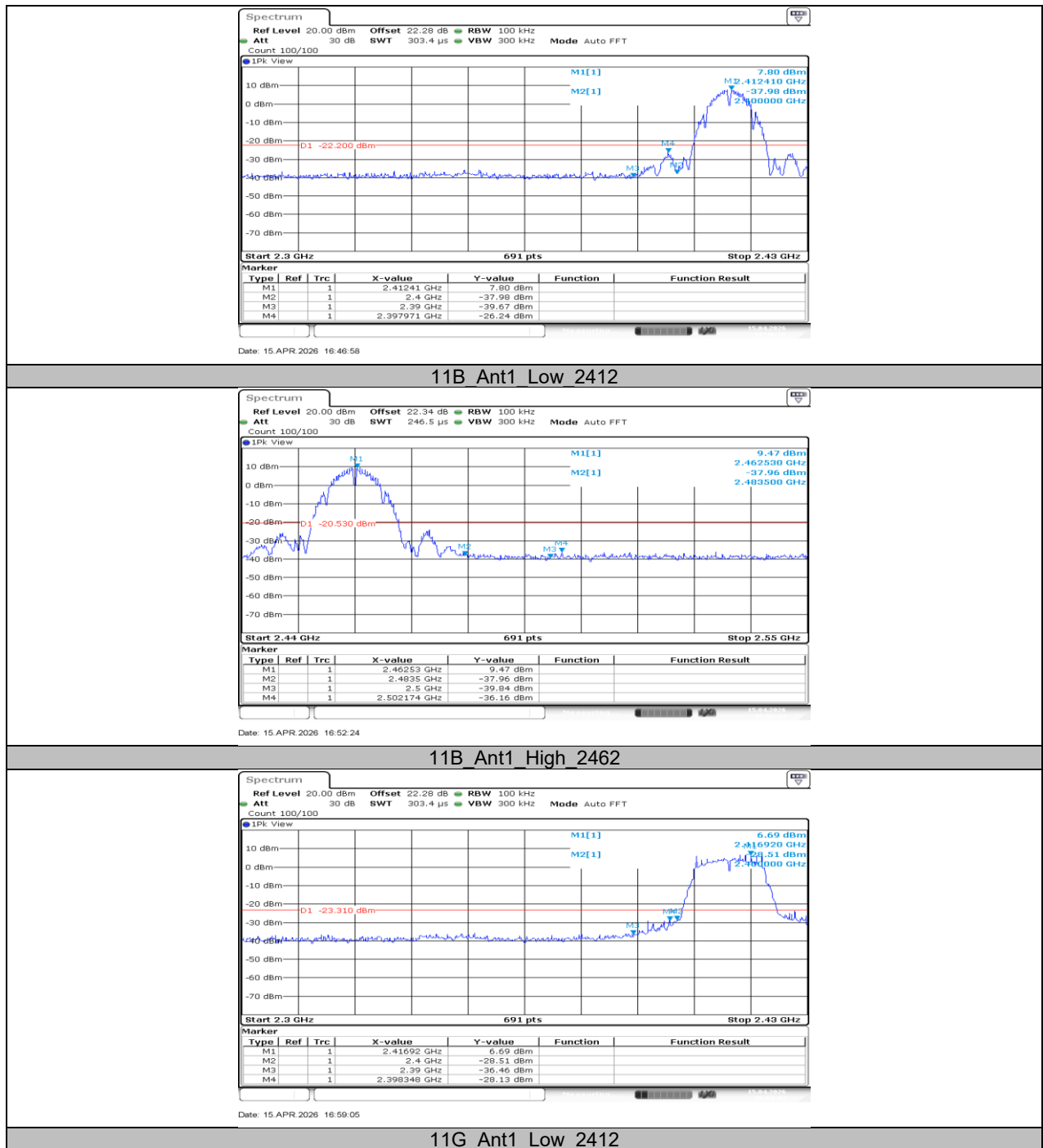


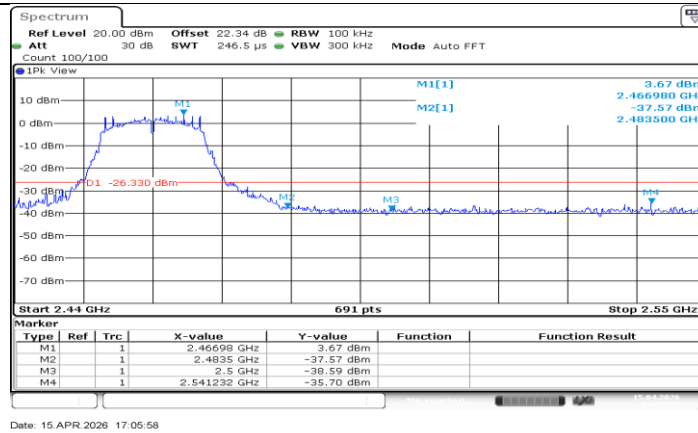
11N20SISO_Ant1_2462

11.5. APPENDIX E: BAND EDGE MEASUREMENTS**11.5.1. Test Result**

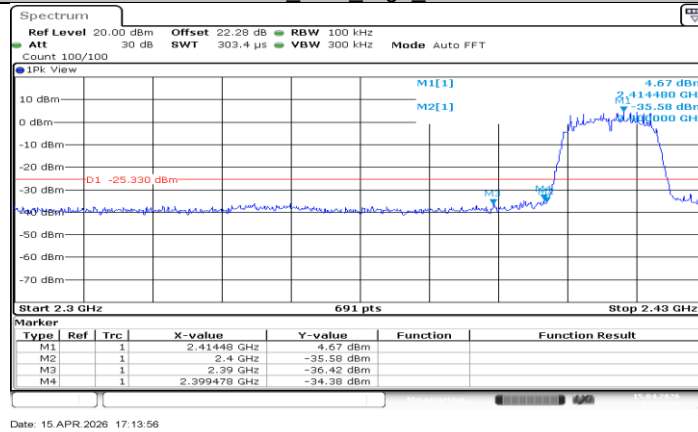
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.80	-26.24	≤-22.2	PASS
		High	2462	9.47	-36.16	≤-20.53	PASS
11G	Ant1	Low	2412	6.69	-28.13	≤-23.31	PASS
		High	2462	3.67	-35.7	≤-26.33	PASS
11N20SISO	Ant1	Low	2412	4.67	-34.38	≤-25.33	PASS
		High	2462	3.89	-35.15	≤-26.11	PASS

11.5.2. Test Graphs

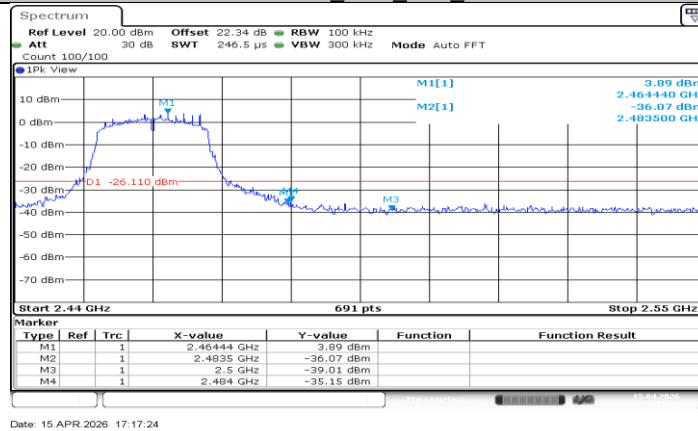




11G Ant1_High_2462



11N20SISO Ant1_Low_2412



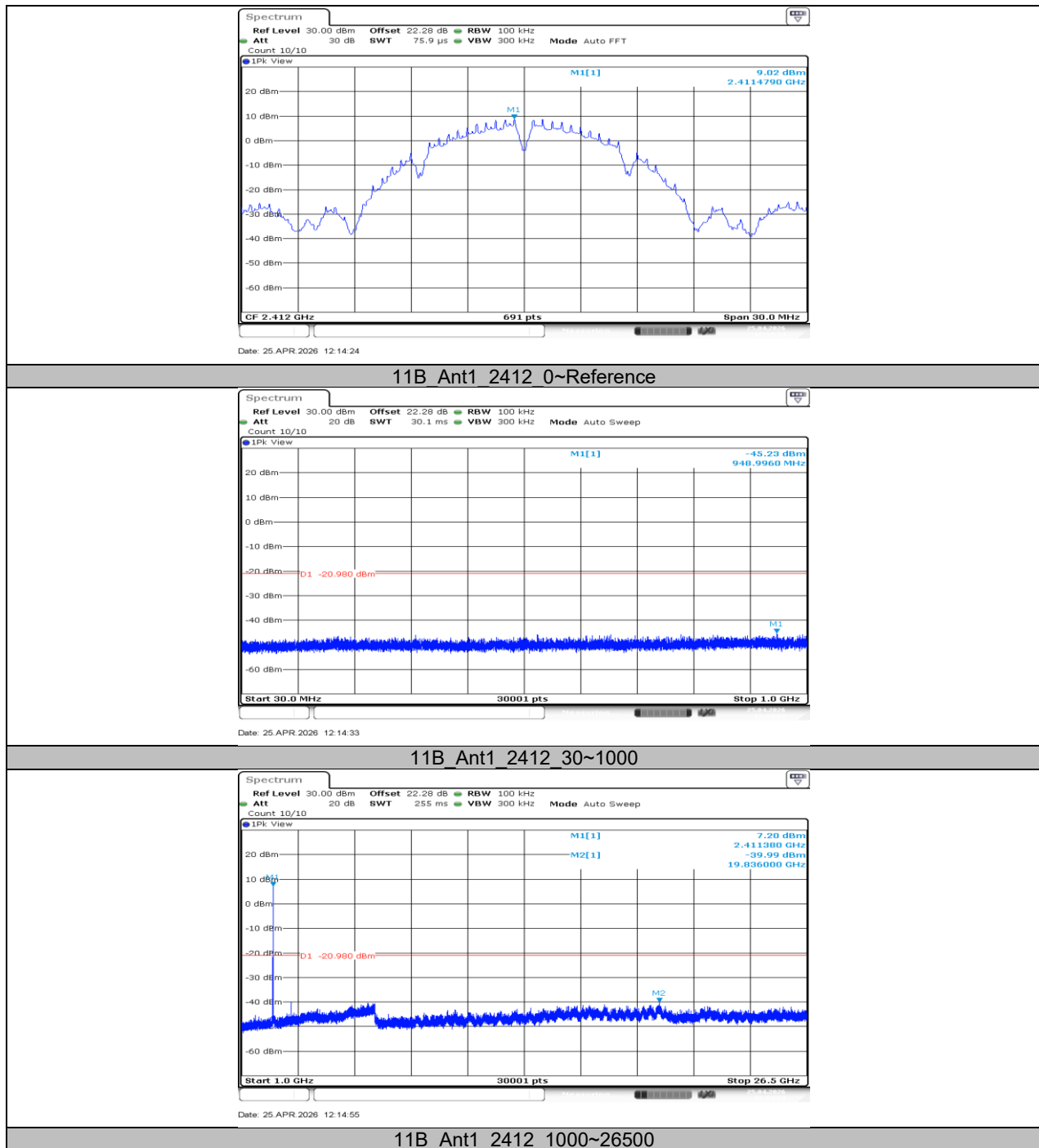
11N20SISO Ant1_High_2462

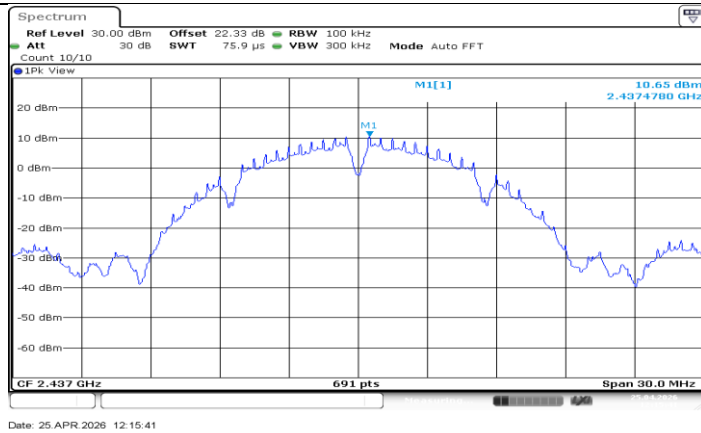
11.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION

11.6.1. Test Result

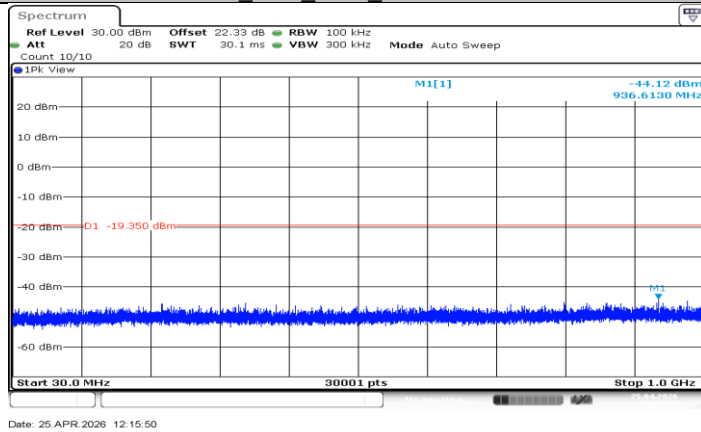
Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	9.02	---	PASS
			30~1000	-45.23	≤ -20.98	PASS
			1000~26500	-39.99	≤ -20.98	PASS
		2437	Reference	10.65	---	PASS
			30~1000	-44.12	≤ -19.35	PASS
			1000~26500	-40.02	≤ -19.35	PASS
		2462	Reference	10.85	---	PASS
			30~1000	-45.71	≤ -19.15	PASS
			1000~26500	-40.12	≤ -19.15	PASS
11G	Ant1	2412	Reference	3.87	---	PASS
			30~1000	-44.47	≤ -26.13	PASS
			1000~26500	-39.42	≤ -26.13	PASS
		2437	Reference	3.69	---	PASS
			30~1000	-44.97	≤ -26.31	PASS
			1000~26500	-39.41	≤ -26.31	PASS
		2462	Reference	3.44	---	PASS
			30~1000	-45.14	≤ -26.56	PASS
			1000~26500	-40.11	≤ -26.56	PASS
11N20SISO	Ant1	2412	Reference	4.65	---	PASS
			30~1000	-45.15	≤ -25.35	PASS
			1000~26500	-40.03	≤ -25.35	PASS
		2437	Reference	5.74	---	PASS
			30~1000	-45.17	≤ -24.26	PASS
			1000~26500	-39.85	≤ -24.26	PASS
		2462	Reference	3.73	---	PASS
			30~1000	-44.89	≤ -26.27	PASS
			1000~26500	-39.34	≤ -26.27	PASS

11.6.2. Test Graphs

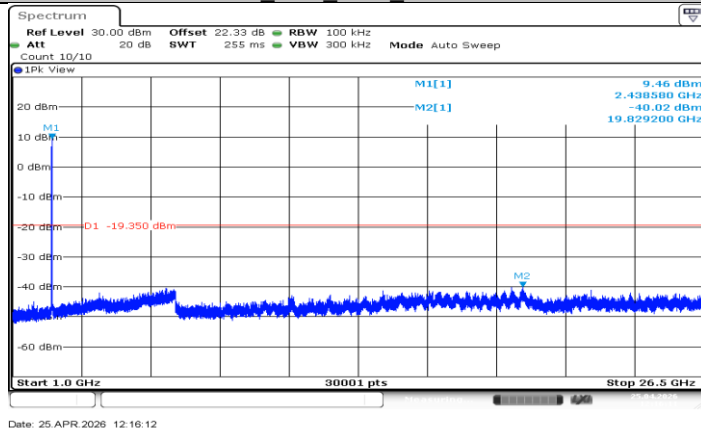




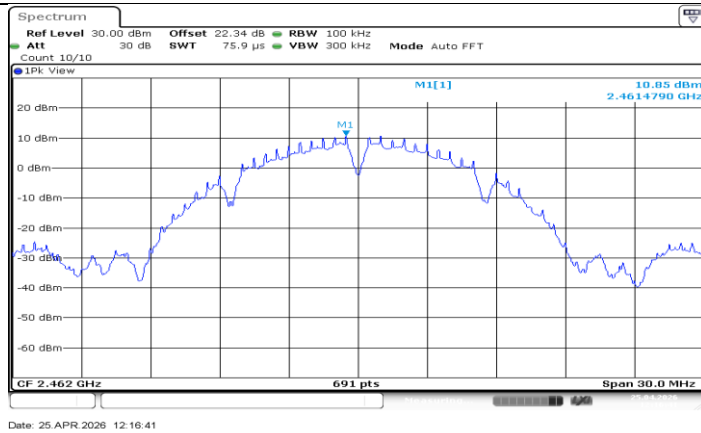
11B_Ant1_2437_0~Reference



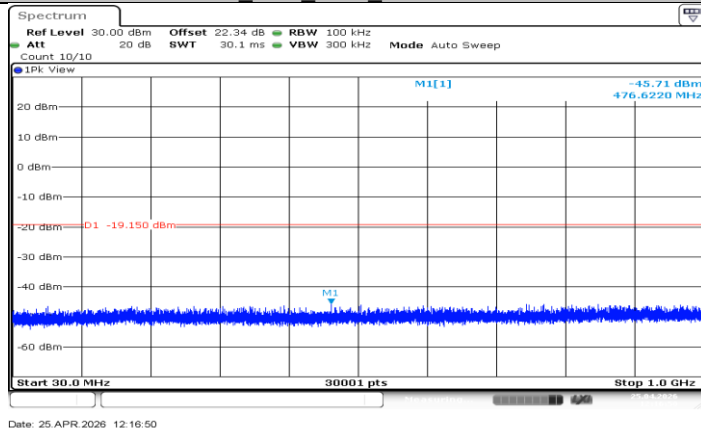
11B_Ant1_2437_30~1000



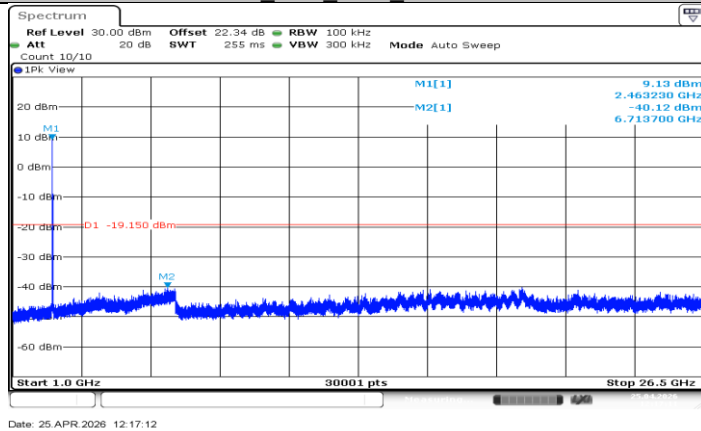
11B_Ant1_2437_1000~26500



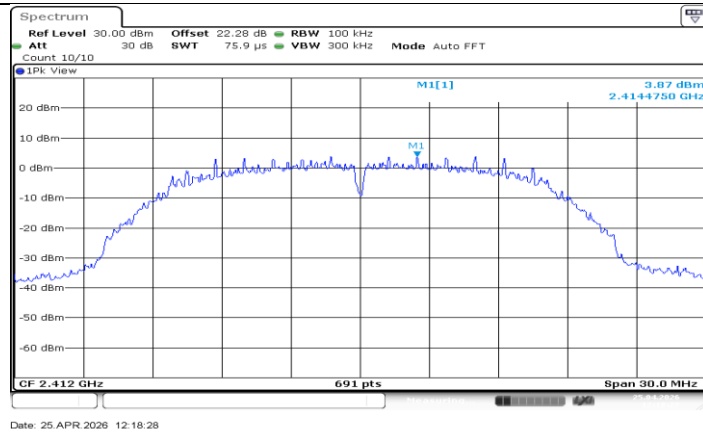
11B_Ant1_2462_0~Reference



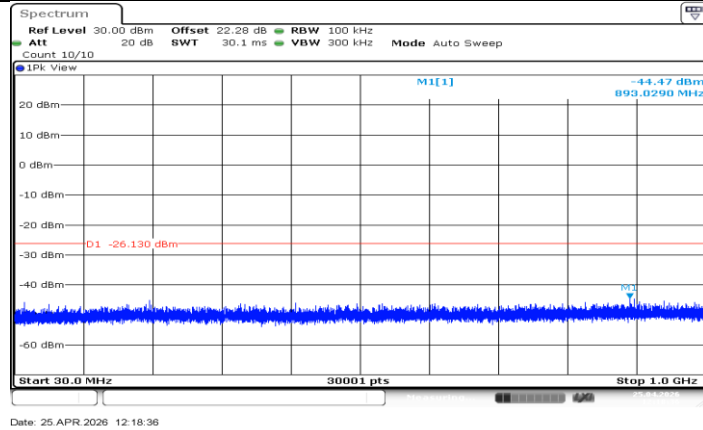
11B_Ant1_2462_30~1000



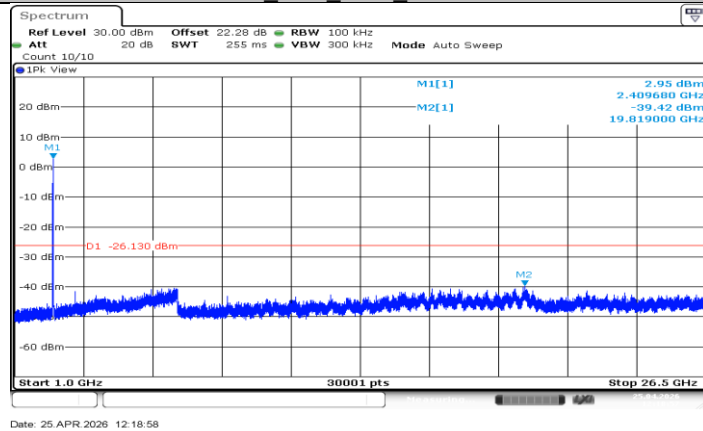
11B_Ant1_2462_1000~26500



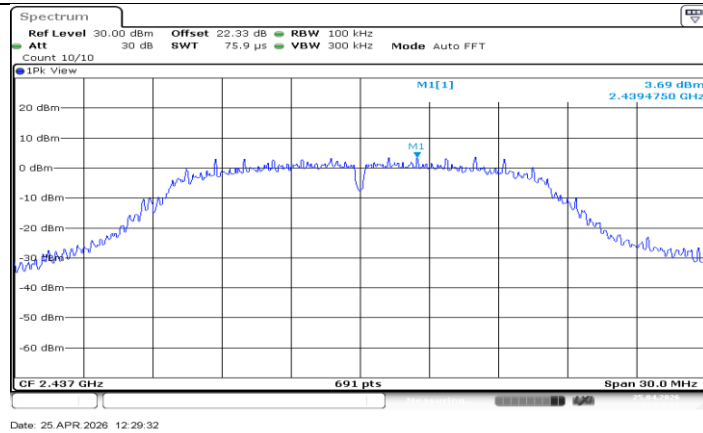
11G_Ant1_2412_0~Reference



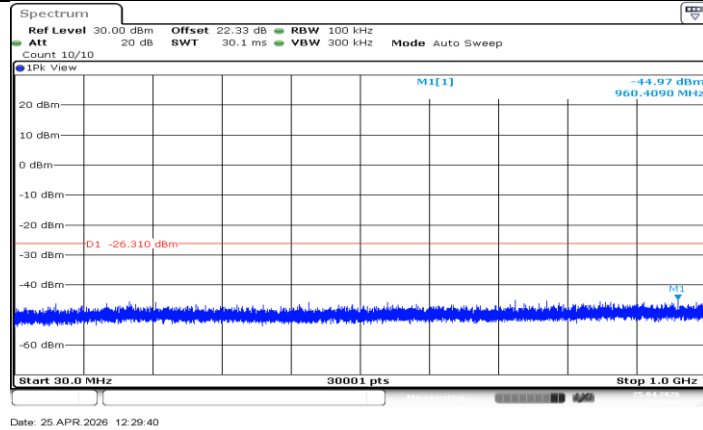
11G_Ant1_2412_30~1000



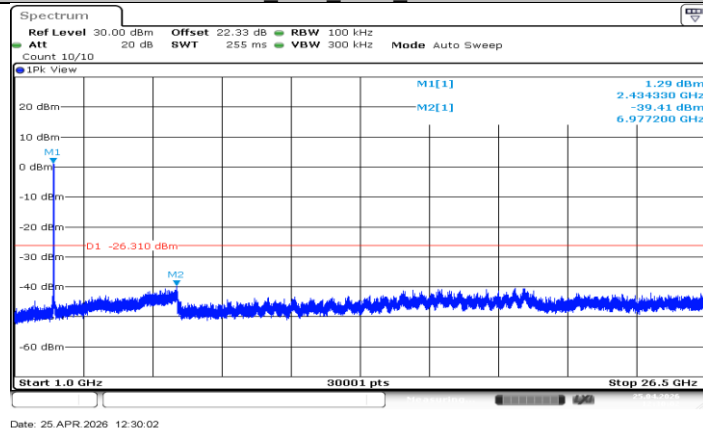
11G_Ant1_2412_1000~26500



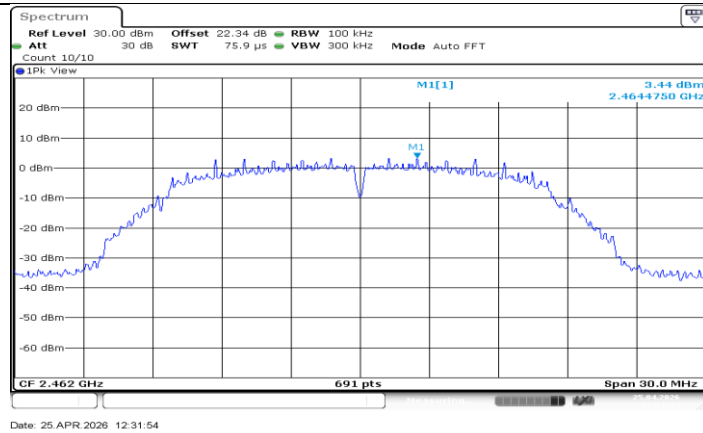
11G_Ant1_2437_0~Reference



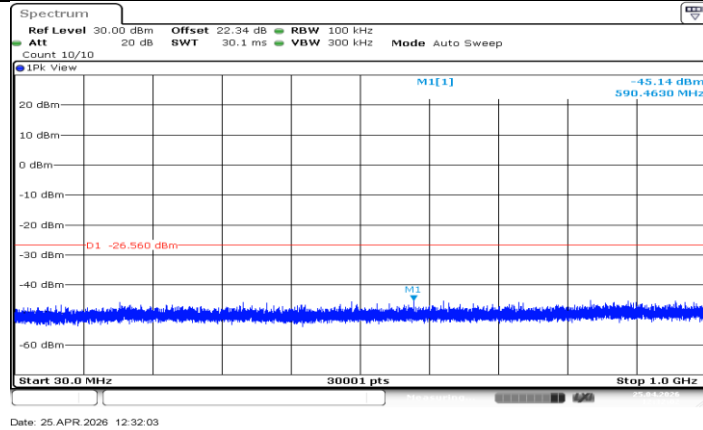
11G_Ant1_2437_30~1000



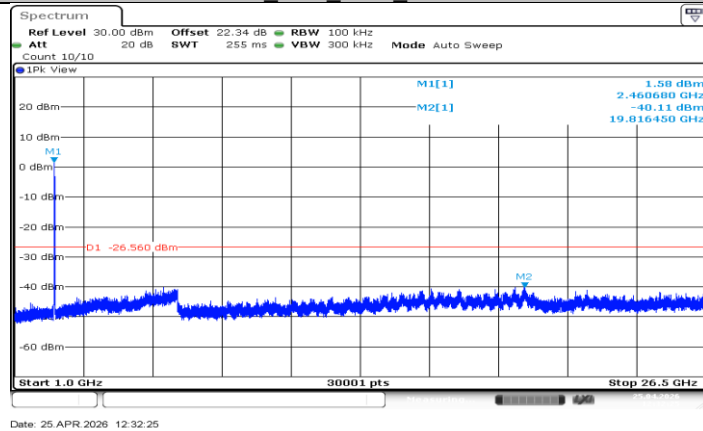
11G_Ant1_2437_1000~26500



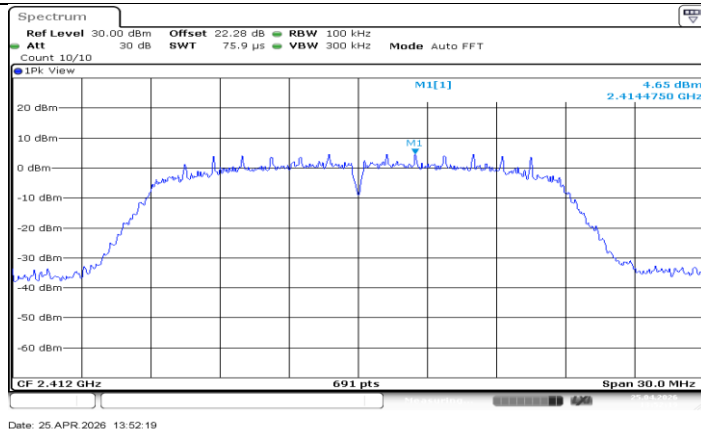
11G_Ant1_2462_0~Reference



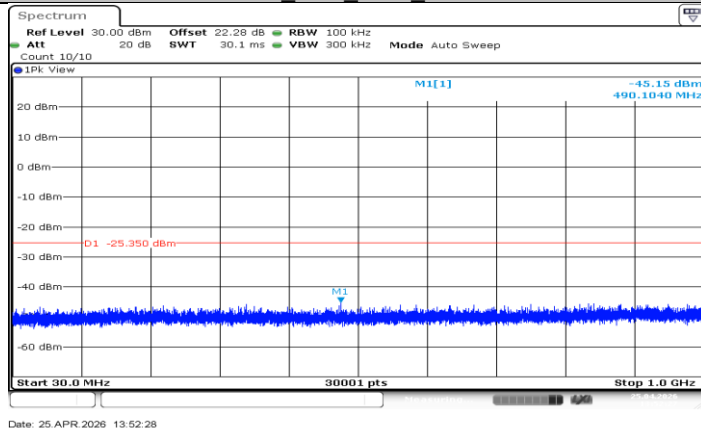
11G_Ant1_2462_30~1000



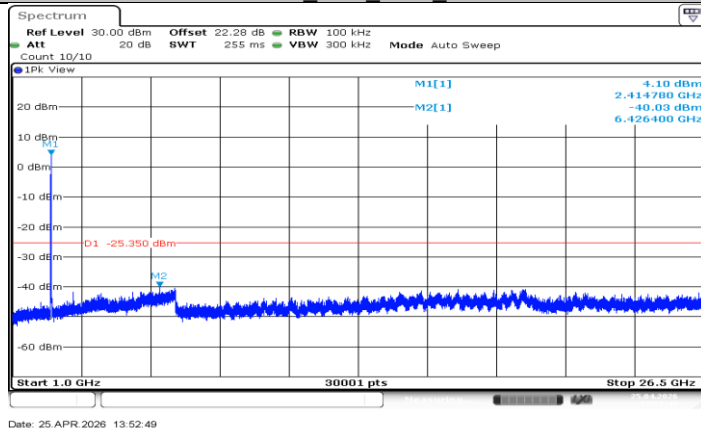
11G_Ant1_2462_1000~26500



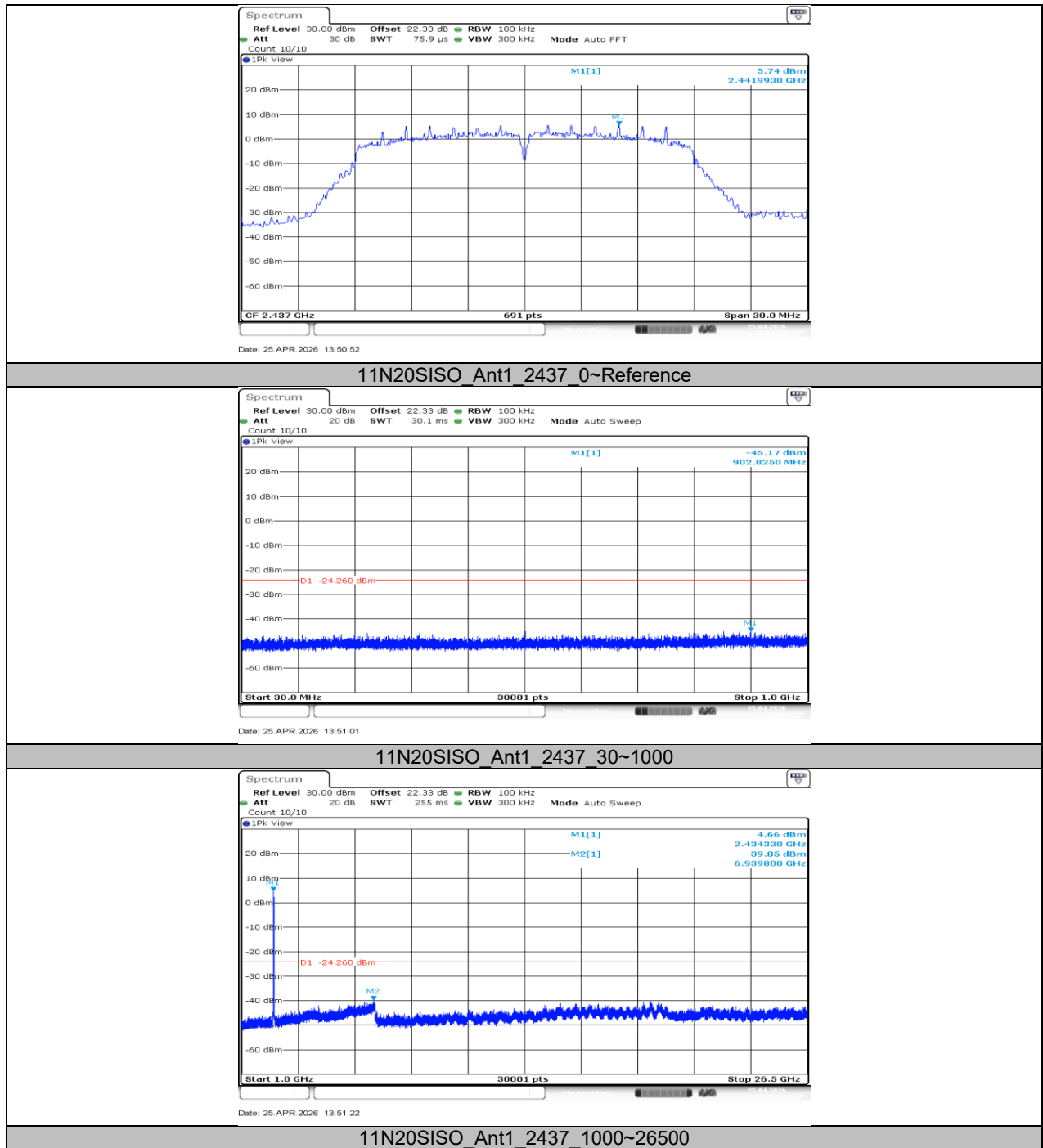
11N20SISO_Ant1_2412_0~Reference

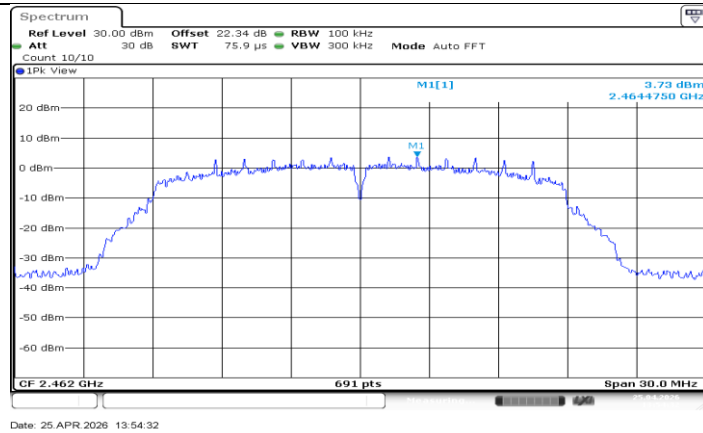


11N20SISO_Ant1_2412_30~1000

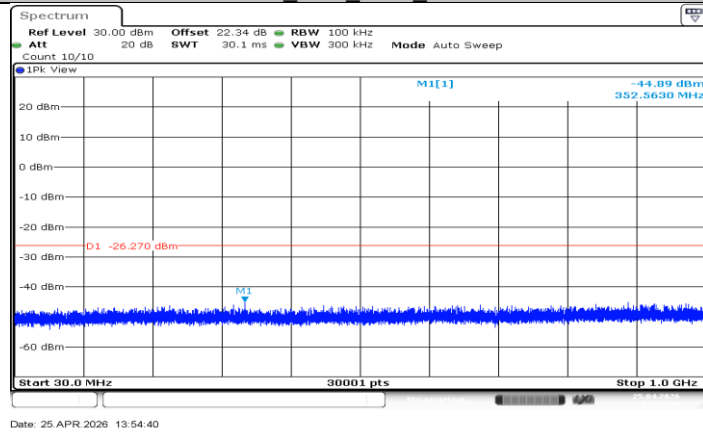


11N20SISO_Ant1_2412_1000~26500

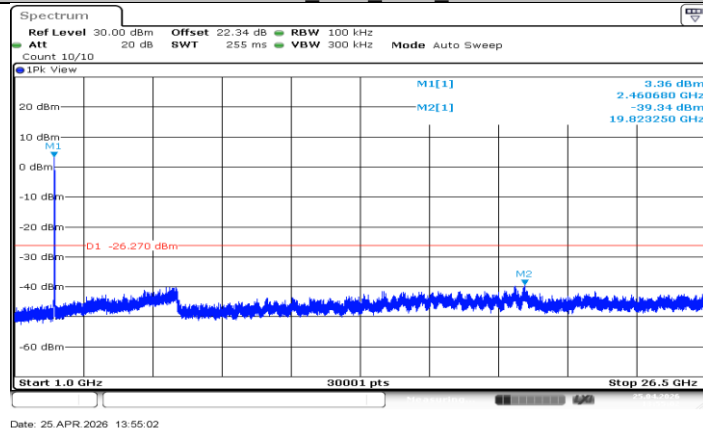




11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

11.7. APPENDIX G: DUTY CYCLE**11.7.1. Test Result**

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
11B	1.22	1.32	0.9242	92.42	0.34	0.82	1
11G	0.93	1.03	0.9029	90.29	0.44	1.08	2
11N20SISO	0.29	0.4	0.7250	72.50	1.40	3.45	4

Note:

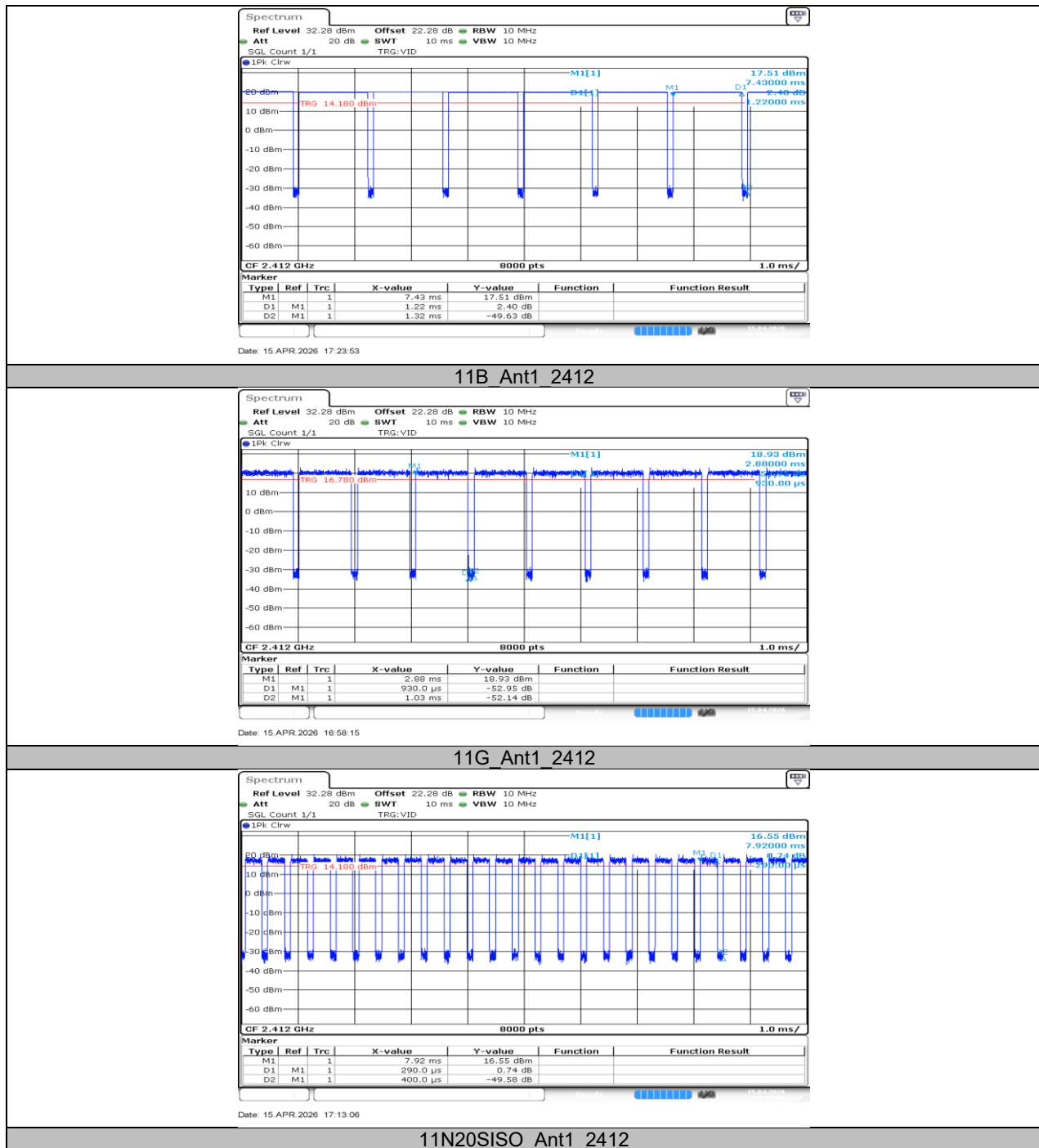
Duty Cycle Correction Factor= $10\log(1/x)$.

Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs



END OF REPORT