

FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

XAG APC 4 AutoPilot Console Mainframe

MODEL NUMBER: M9HCM2.5CH

REPORT NUMBER: 03684300-1-RF-1

ISSUE DATE: August 7, 2026

FCC ID: 2A46G-M9HCM25CH

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 7, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2020, Clause 6.2	FCC Part 15.207	NA
Conducted Output Power	ANSI C63.10-2020, Clause 11.9.2.3.1	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2020, Clause 11.10.5 & 11.10.3	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2020, Clause 11.11	FCC Part 15.247(d)	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	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

Note:

1. This report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

2. NA is not applicable.

*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> 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.

CONTENTS

1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>8</i>
4.2. <i>MEASUREMENT UNCERTAINTY</i>	<i>8</i>
5. EQUIPMENT UNDER TEST	9
5.1. <i>DESCRIPTION OF EUT</i>	<i>9</i>
5.2. <i>CHANNEL LIST</i>	<i>9</i>
5.3. <i>MAXIMUM POWER</i>	<i>9</i>
5.4. <i>TEST CHANNEL CONFIGURATION</i>	<i>9</i>
5.5. <i>THE WORSE CASE POWER SETTING PARAMETER</i>	<i>10</i>
<i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>10</i>
5.6. <i>SUPPORT UNITS FOR SYSTEM TEST</i>	<i>11</i>
6. MEASURING EQUIPMENT AND SOFTWARE USED	12
7. ANTENNA PORT TEST RESULTS	15
7.1. <i>CONDUCTED OUTPUT POWER</i>	<i>15</i>
7.2. <i>6DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH</i>	<i>16</i>
7.3. <i>POWER SPECTRAL DENSITY</i>	<i>18</i>
7.4. <i>CONDUCTED BAND EDGE AND SPURIOUS EMISSION</i>	<i>20</i>
7.5. <i>DUTY CYCLE</i>	<i>22</i>
8. RADIATED TEST RESULTS	23
8.1. <i>RESTRICTED BANDEDGE</i>	<i>30</i>
8.2. <i>SPURIOUS EMISSIONS(1 GHZ~3 GHZ)</i>	<i>35</i>
8.3. <i>SPURIOUS EMISSIONS(3 GHZ~18 GHZ)</i>	<i>41</i>
8.4. <i>SPURIOUS EMISSIONS(9 KHZ~30 MHZ)</i>	<i>53</i>
8.5. <i>SPURIOUS EMISSIONS(18 GHZ~26 GHZ)</i>	<i>56</i>
8.6. <i>SPURIOUS EMISSIONS(30 MHZ~1 GHZ)</i>	<i>58</i>
8.7. <i>SIMULTANEOUS TRANSMISSION OF LORA & WIFI & LTE</i>	<i>60</i>
9. ANTENNA REQUIREMENT	68
10. TEST DATA	69

10.1.	APPENDIX A: DTS BANDWIDTH	69
10.1.1.	Test Result	69
10.1.2.	Test Graphs	70
10.2.	APPENDIX B: OCCUPIED CHANNEL BANDWIDTH	72
10.2.1.	ssTest Result	72
10.2.2.	Test Graphs	73
10.3.	APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER	75
10.3.1.	Test Result	75
10.4.	APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY	76
10.4.1.	Test Result	76
10.4.2.	Test Graphs	77
10.5.	APPENDIX E: BAND EDGE MEASUREMENTS	79
10.5.1.	Test Result	79
10.5.2.	Test Graphs	80
10.6.	APPENDIX F: CONDUCTED SPURIOUS EMISSION	82
10.6.1.	Test Result	82
10.6.2.	Test Graphs	83
10.7.	APPENDIX G: DUTY CYCLE	87
10.7.1.	Test Result	87
10.7.2.	Test Graphs	88

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
Address: Building 1, No. 9 Xinrui Road, Huangpu District Guangzhou,P.R. China

Manufacturer Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
Address: Building 1, No. 9 Xinrui Road, Huangpu District Guangzhou,P.R. China

EUT Information

EUT Name: XAG APC 4 AutoPilot Console Mainframe
Model: M9HCM2.5CH
Brand: XAG
Sample Received Date: June 5, 2026
Sample Status: Normal
Sample ID: 9835980
Date of Tested: June 6, 2026 to August 6, 2026

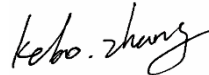
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART C	Pass

Prepared By:



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Checked By:



Kebo Zhang
Operations Leader

Approved By:



Stephen Guo
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 + 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 ISSED. 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	XAG APC 4 AutoPilot Console Mainframe
Model	M9HCM2.5CH

Frequency Range:	2404 MHz to 2480 MHz
Type of Modulation:	CSS(DR0-DR7)
Normal Test Voltage:	DC 12-24 V

5.2. CHANNEL LIST

Channel List For Bandwidth=406 kHz/ 812 kHz							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	2	2442	3	2480	/	/

5.3. MAXIMUM POWER

CSS	Frequency (MHz)	Channel Number	Maximum Conducted Peak Output Power (dBm)	Maximum Peak EIRP (dBm)
406 kHz	2404 ~ 2480	1-3[3]	14.21	14.53
812 kHz	2404 ~ 2480	1-3[3]	14.09	14.41

Note:

1. Maximum conducted output power = measured value + cable loss (provided by UL) + cable loss (provided by UL or client)
2. Maximum EIRP = maximum conducted output power + antenna gain

5.4. TEST CHANNEL CONFIGURATION

CSS	Test Channel Number	Frequency
406 kHz	CH 1(Low Channel), CH 2(MID Channel), CH 3(High Channel)	2404 MHz, 2442 MHz, 2480 MHz
812 kHz	CH 1(Low Channel), CH 2(MID Channel), CH 3(High Channel)	2404 MHz, 2442 MHz, 2480 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		Putty					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 406 kHz			NCB: 812 kHz		
		CH 1	CH 2	CH 3	CH 1	CH 2	CH 3
CSS	1	-15	-15	-16	-15	-15	-16

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:

CSS 406kHz: DR0

CSS 812kHz: DR0

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

DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2404-2480	PCB Antenna	0.32

Note: The antenna gain is provided by client.

Test Mode	Transmit and Receive Mode	Description
CSS 406kHz	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
CSS 812kHz	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note:

1. Only BT & WWAN & CSS 400M, BT & WWAN & CSS 2.4G, WLAN & WWAN & CSS 400M, WLAN & WWAN & CSS 2.4G can transmit simultaneously. (declared by client)

5.6. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	PC	Lenovo	E14	/

I/O CABLES

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

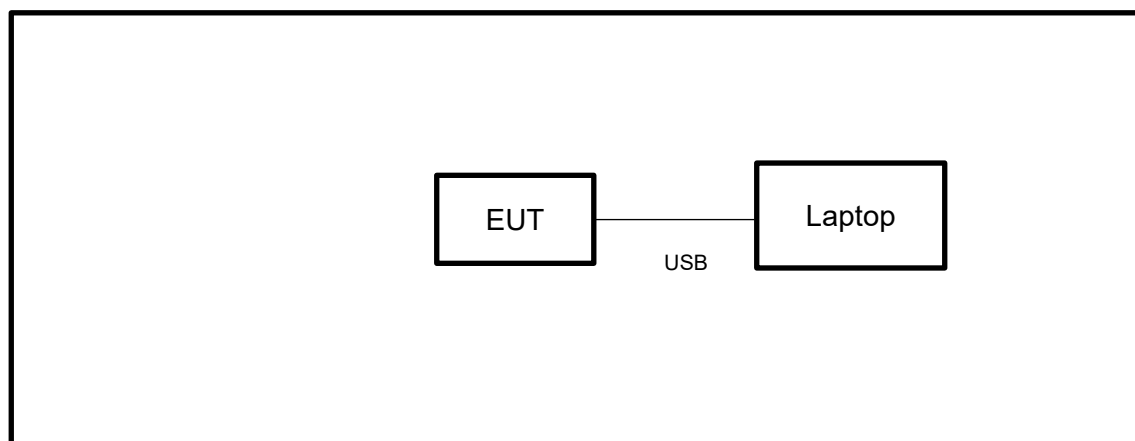
ACCESSORIES

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	

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			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(b)(3)	AVG Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

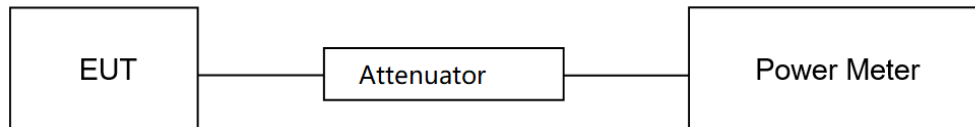
Refer to ANSI C63.10-2020 clause 11.9.2.3.1.

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	22.9°C	Relative Humidity	54.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

TEST DATE / ENGINEER

Test Date	July 6, 2026	Test By	Eason He
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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			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
/	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

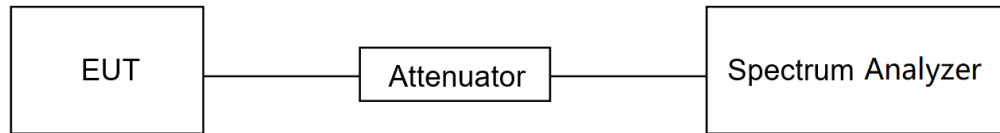
Refer to ANSI C63.10-2020 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

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	22.9°C	Relative Humidity	54.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

TEST DATE / ENGINEER

Test Date	July 6, 2026	Test By	Eason He
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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			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR §15.247 (e)	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.

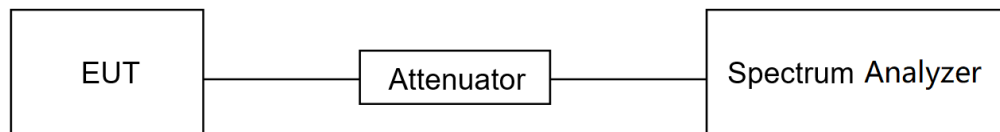
Connect the EUT to the spectrum analyzer and use the following settings:

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	22.9°C	Relative Humidity	54.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

TEST DATE / ENGINEER

Test Date	July 6, 2026	Test By	Eason He
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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		
Section	Test Item	Limit
FCC 47 CFR §15.247 (d)	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:

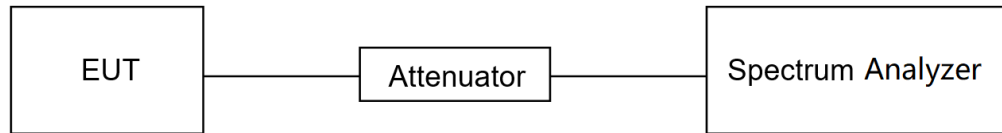
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$\geq 1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	No faster than coupled (auto) time

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	$\geq \text{span}/\text{RBW}$
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	22.9℃	Relative Humidity	54.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

TEST DATE / ENGINEER

Test Date	July 6, 2026	Test By	Eason He
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TEST RESULTS

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

7.5. DUTY CYCLE

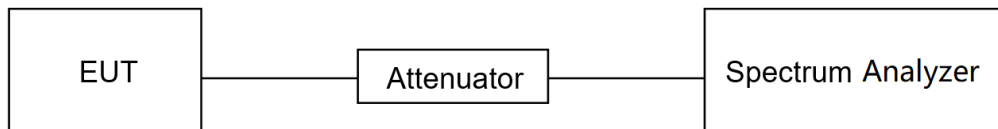
LIMITS

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	22.9°C	Relative Humidity	54.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

TEST DATE / ENGINEER

Test Date	July 6, 2026	Test By	Eason He
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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.

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 (uV/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

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.

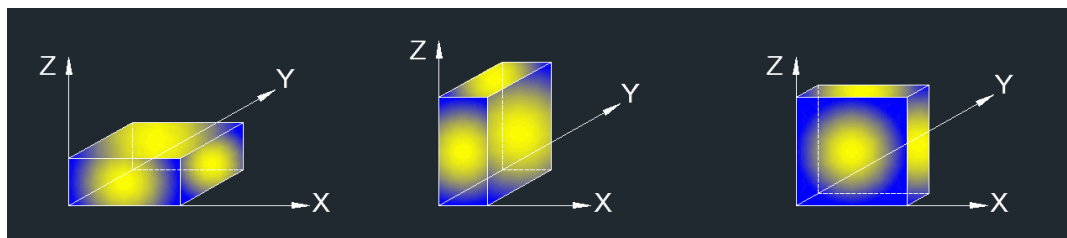
Above 1 GHz

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:

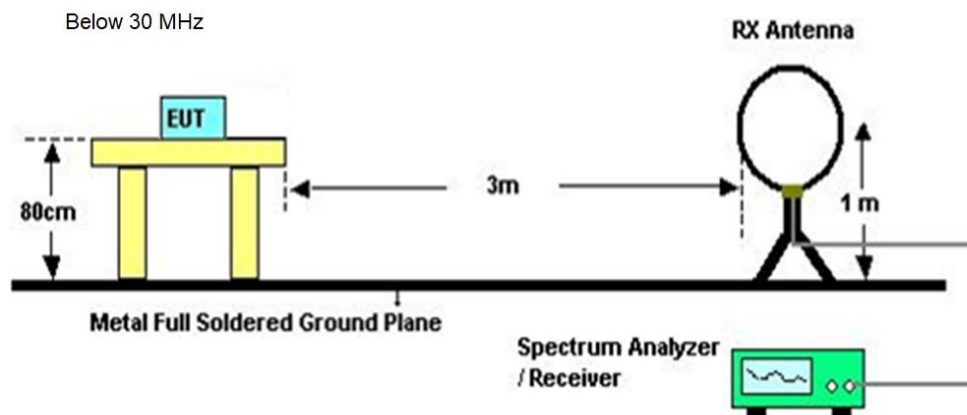
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, 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):

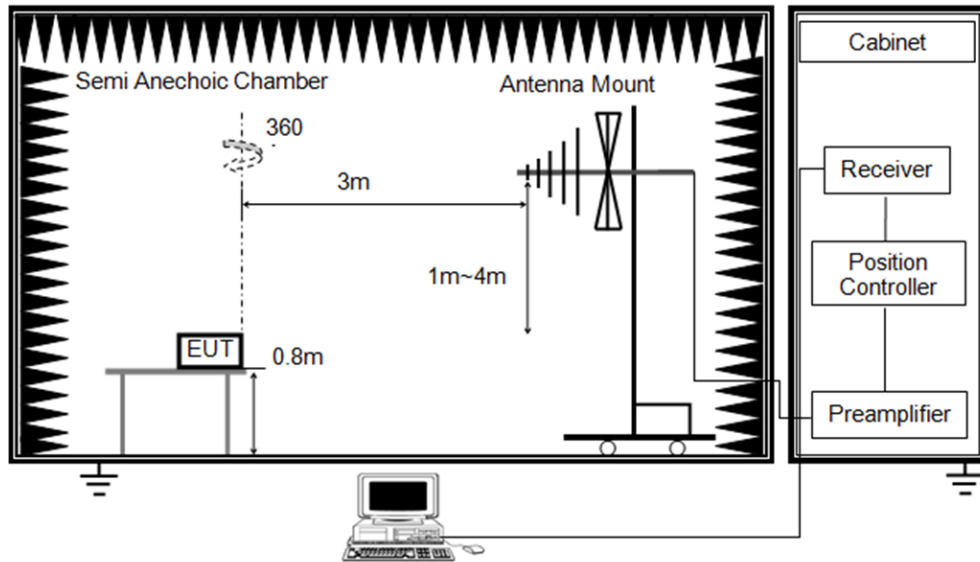
Note:

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.

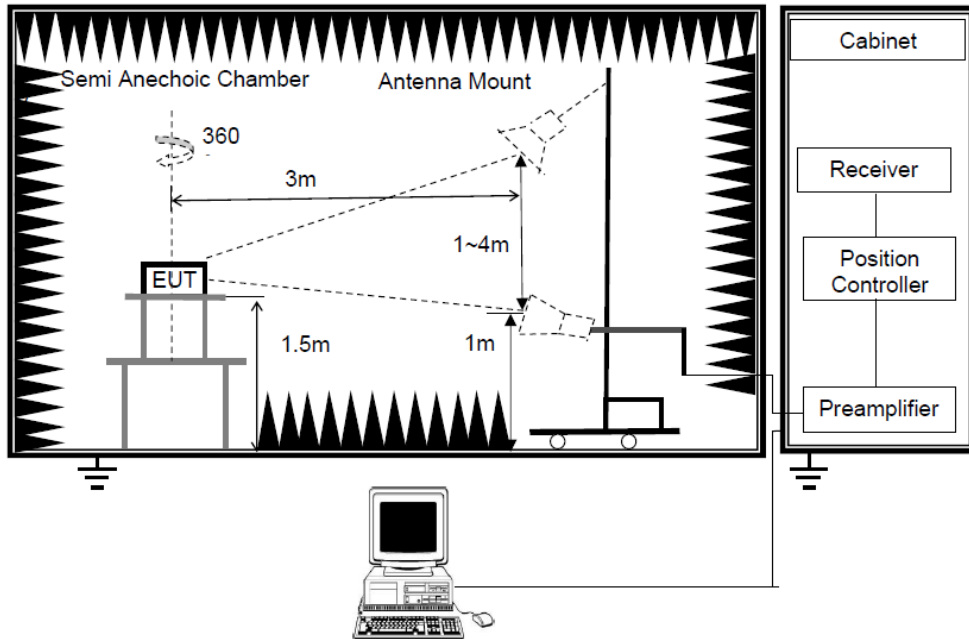
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	21.9°C	Relative Humidity	61%
Atmosphere Pressure	101kPa	Test Voltage	DC 24V

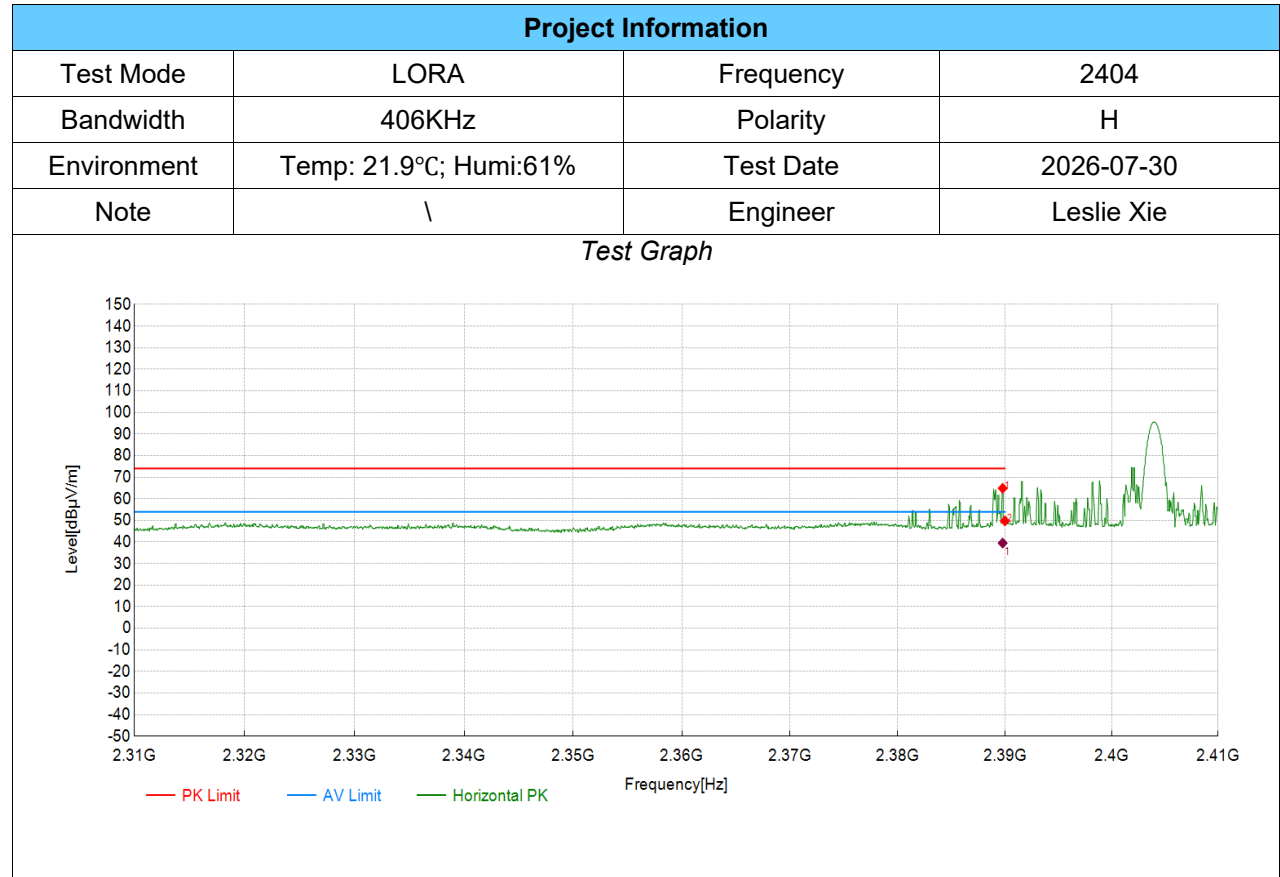
TEST DATE / ENGINEER

Test Date	July 30, 2026	Test By	Leslie Xie
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TEST RESULTS

8.1. RESTRICTED BANDEDGE

TX Radiated Test Result



PEAK Data List

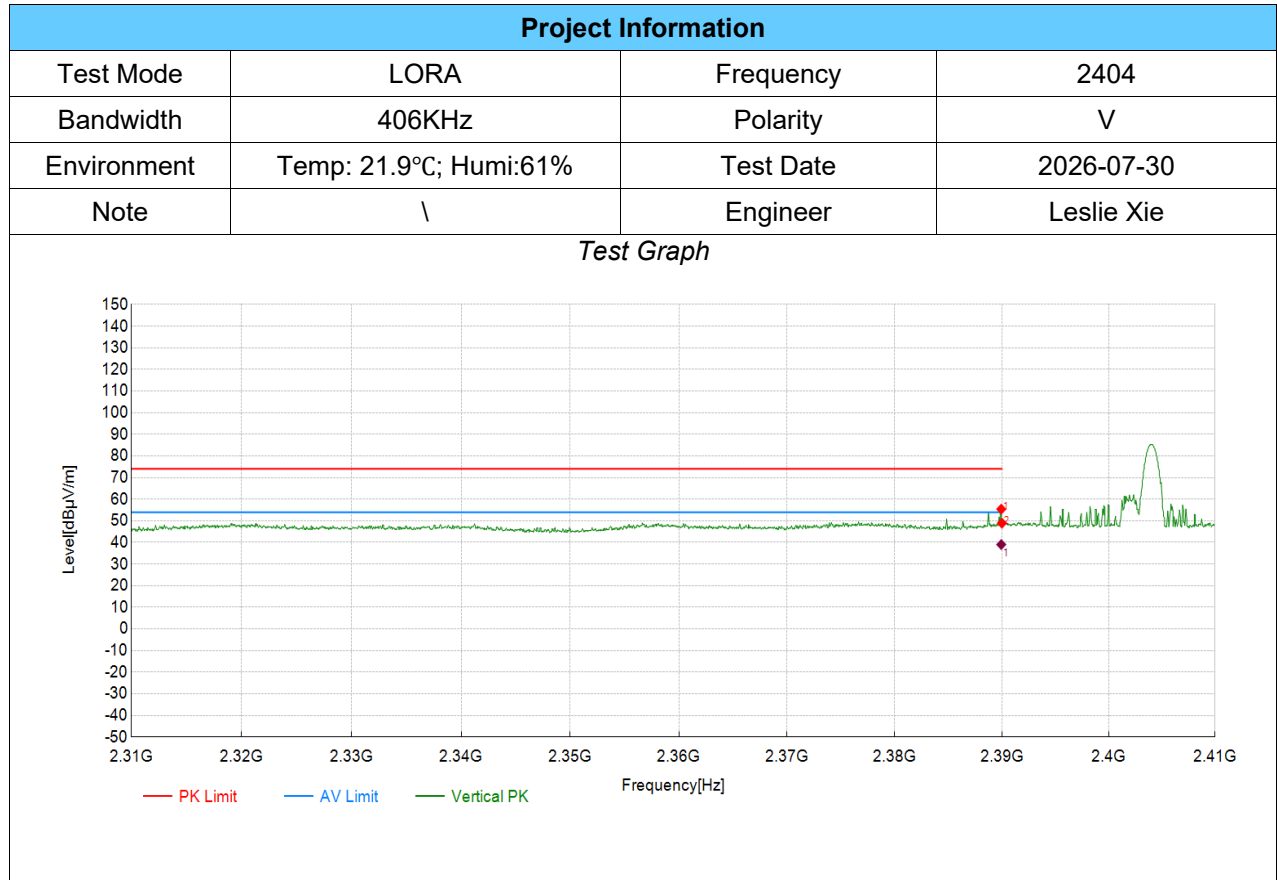
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.79	56.17	64.86	8.69	74.00	9.14	PK	Horizontal	PASS
2	2390.00	41.05	49.75	8.70	74.00	24.25	PK	Horizontal	PASS

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	2389.79	8.69	30.81	39.50	54.00	14.50	Horizontal	PASS

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

TX Radiated Test Result



PEAK Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2389.94	46.71	55.40	8.69	74.00	18.60	PK	Vertical	PASS
2	2390.00	40.22	48.92	8.70	74.00	25.08	PK	Vertical	PASS

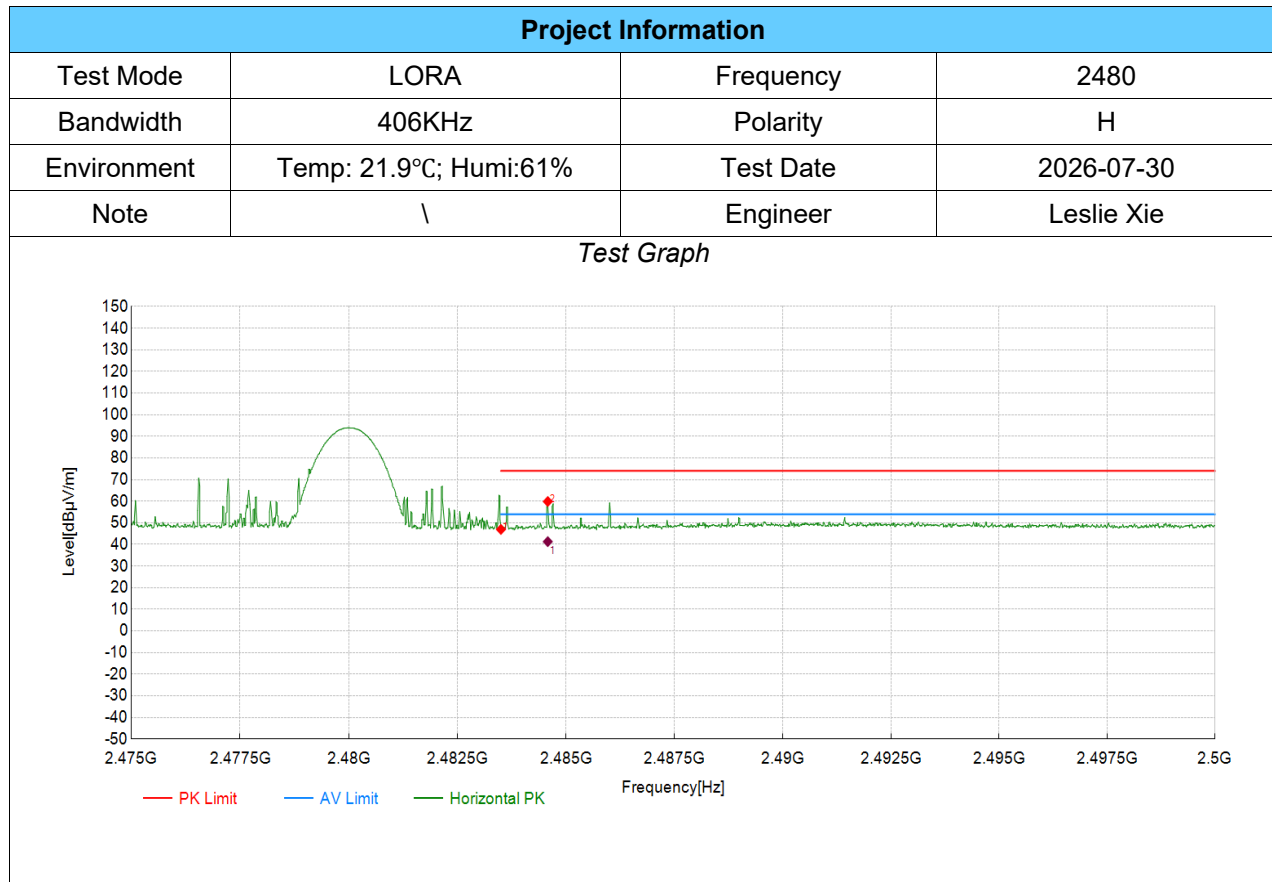
AVG Data List

NO.	Frequency [MHz]	Factor [dB/m]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity	Verdict
1	2389.94	8.69	30.35	39.04	54.00	14.96	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

TX Radiated Test Result

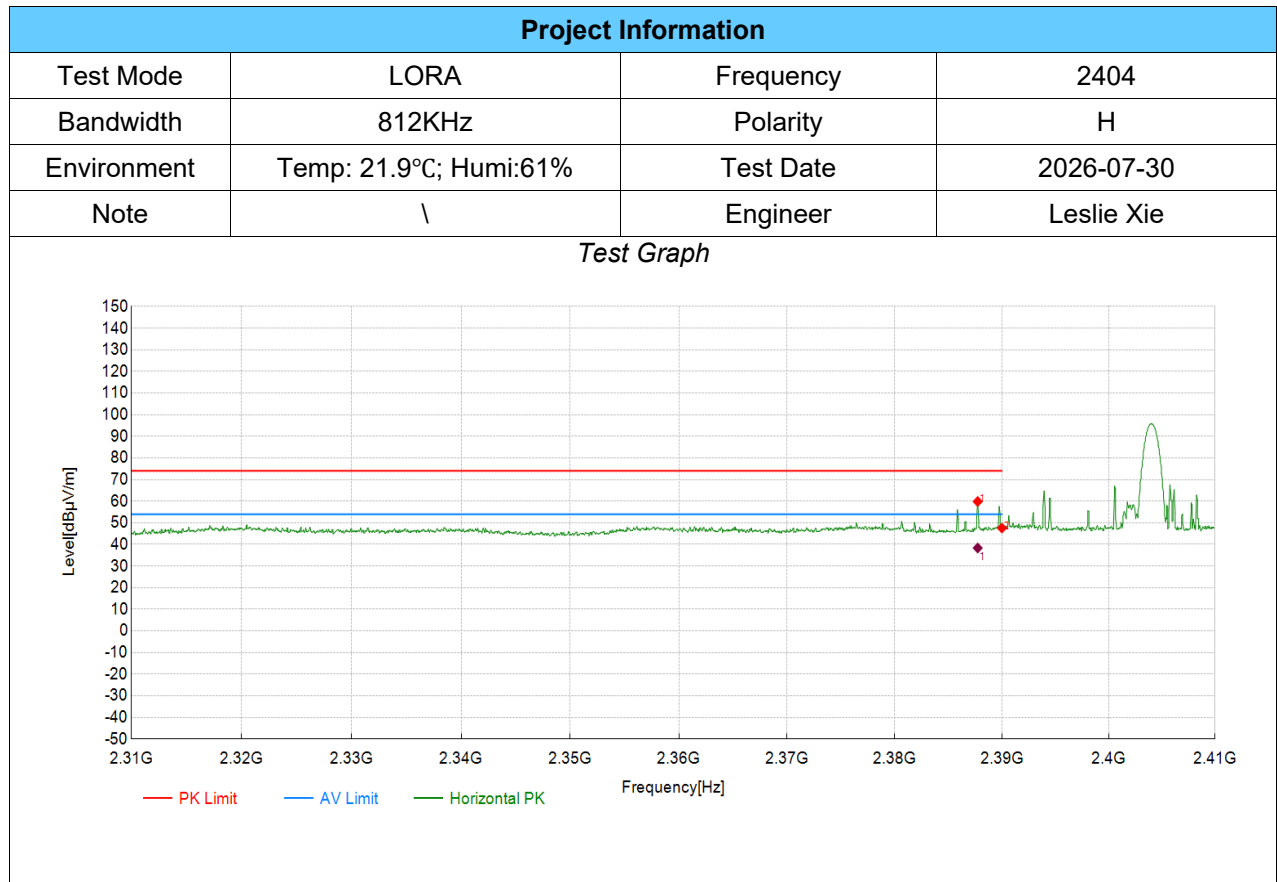


PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	36.97	46.96	9.99	74.00	27.04	PK	Horizontal	PASS
2	2484.58	49.86	59.87	10.01	74.00	14.13	PK	Horizontal	PASS

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	2484.58	10.01	31.28	41.29	54.00	12.71	Horizontal	PASS

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

TX Radiated Test Result



PEAK Data List

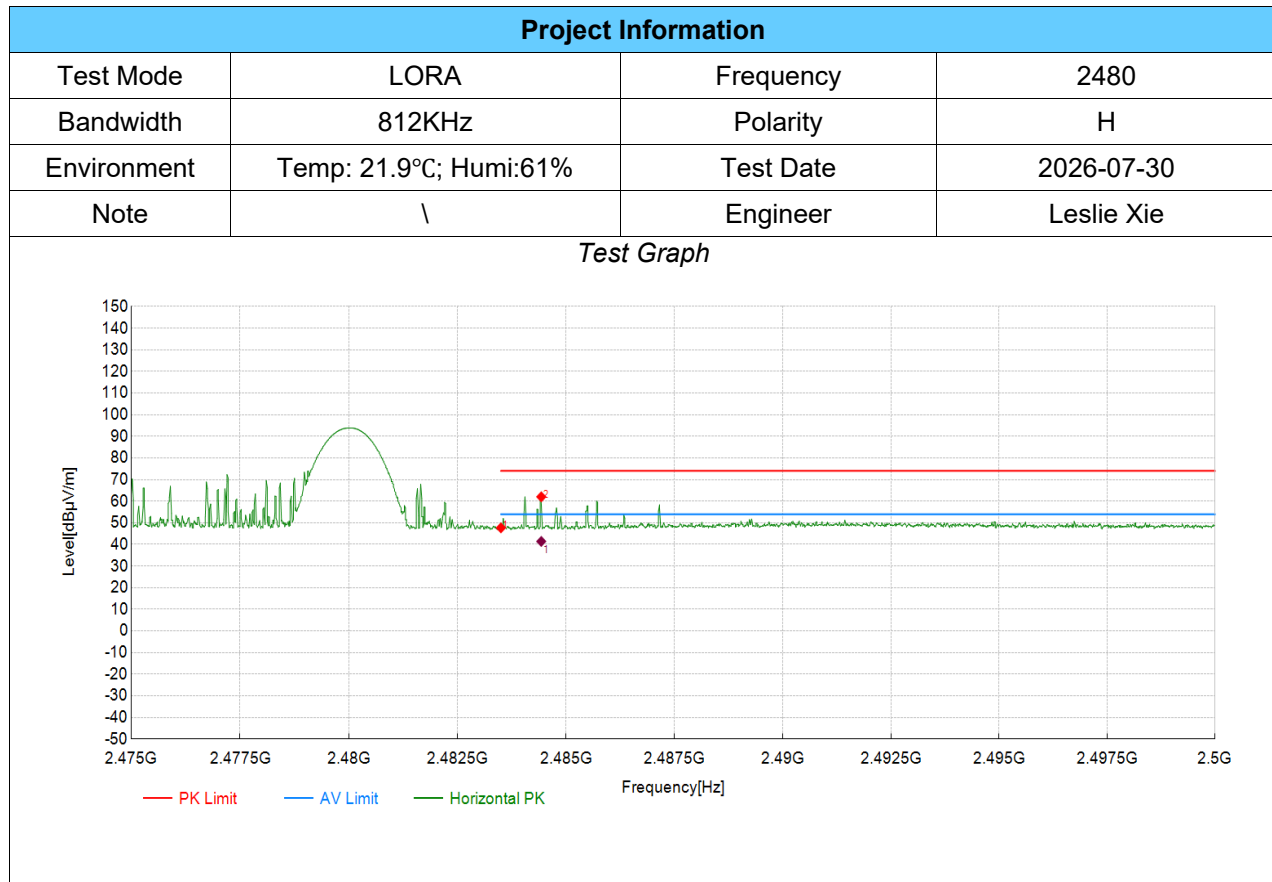
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2387.74	51.19	59.86	8.67	74.00	14.14	PK	Horizontal	PASS
2	2390.00	38.88	47.58	8.70	74.00	26.42	PK	Horizontal	PASS

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	2387.74	8.67	29.69	38.36	54.00	15.64	Horizontal	PASS

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

TX Radiated Test Result



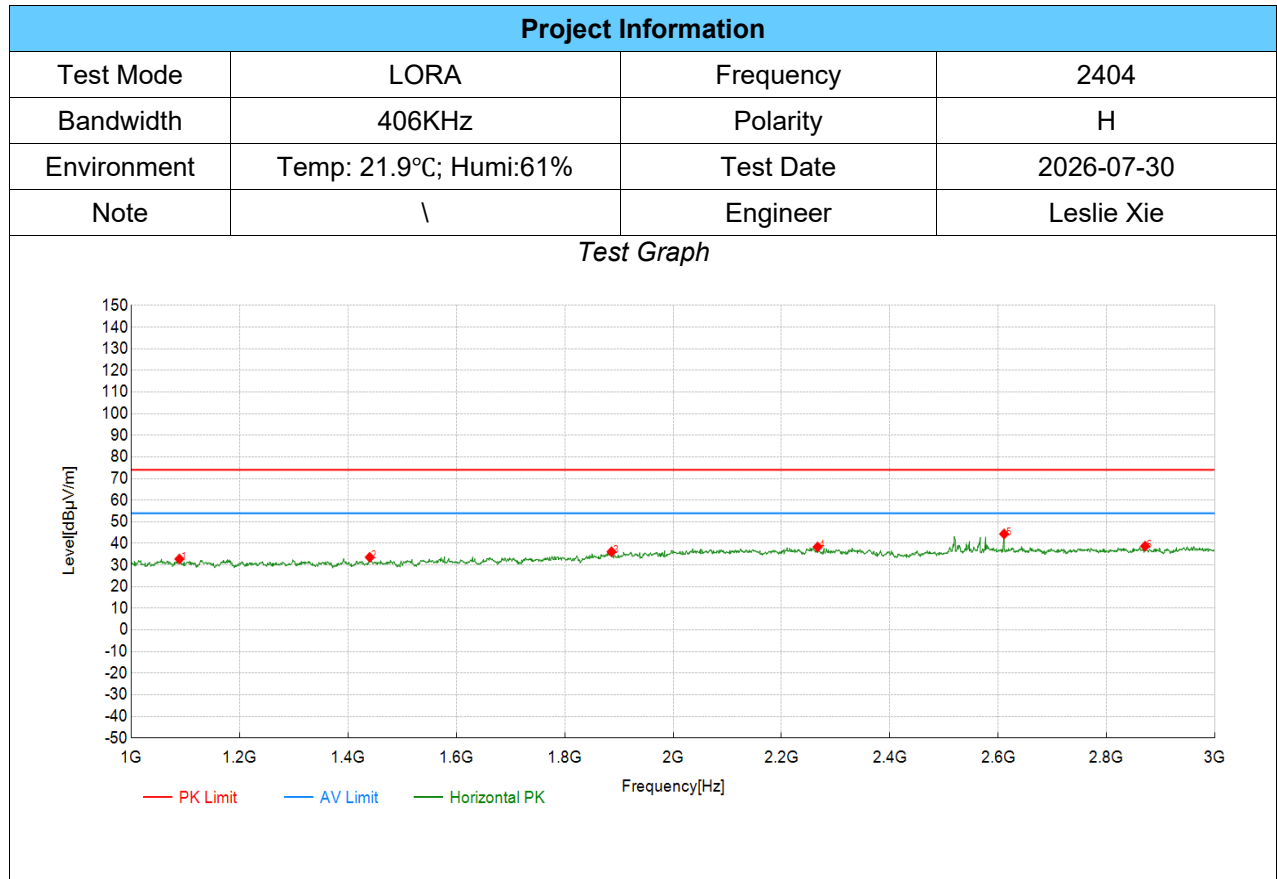
PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	37.69	47.68	9.99	74.00	26.32	PK	Horizontal	PASS
2	2484.43	52.02	62.03	10.01	74.00	11.97	PK	Horizontal	PASS

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	2484.43	10.01	31.39	41.40	54.00	12.60	Horizontal	PASS

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

8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

TX Radiated Test Result

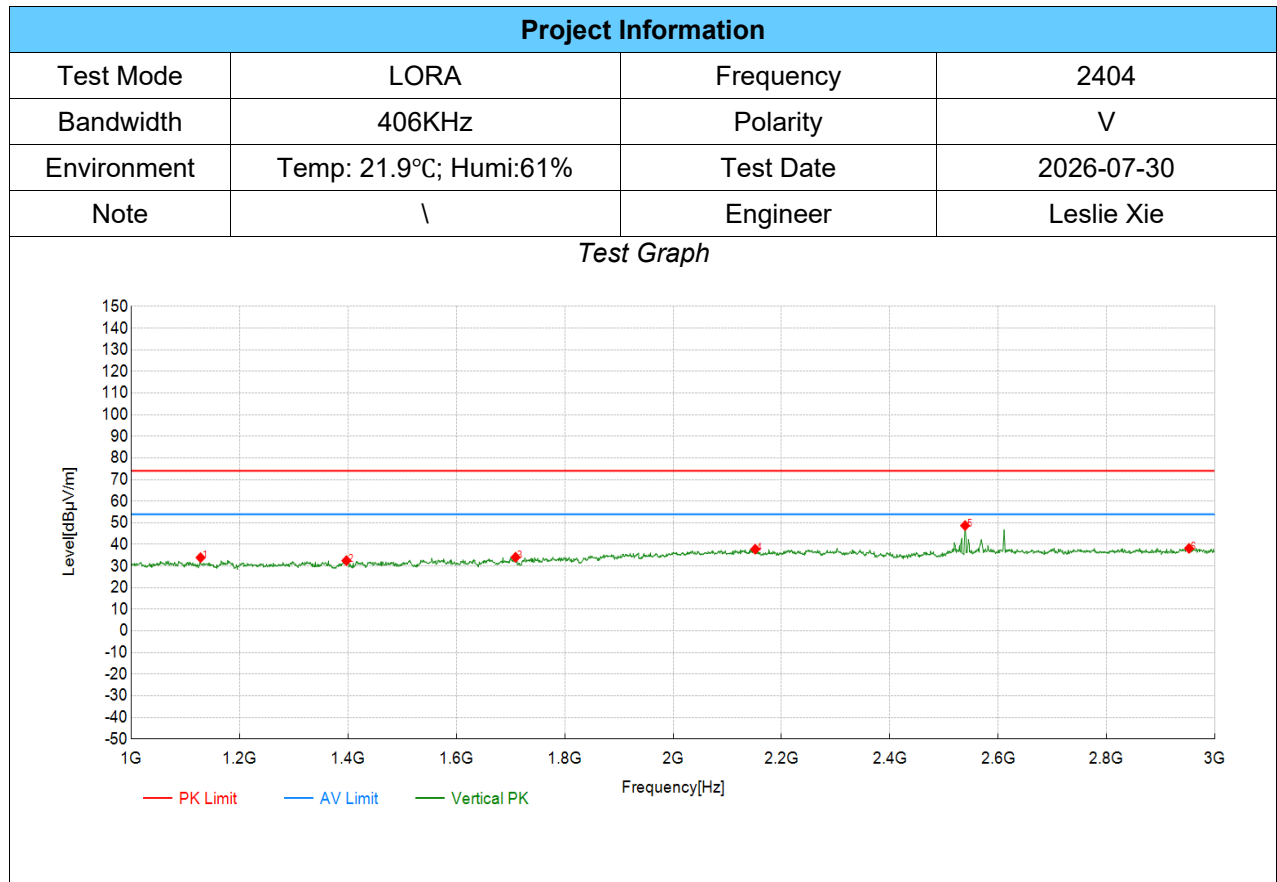


PEAK Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1089.04	57.61	32.80	-24.81	74.00	41.20	PK	Horizontal	PASS
2	1440.22	58.23	33.61	-24.62	74.00	40.39	PK	Horizontal	PASS
3	1886.44	57.47	36.13	-21.34	74.00	37.87	PK	Horizontal	PASS
4	2266.63	58.05	38.35	-19.70	74.00	35.65	PK	Horizontal	PASS
5	2610.81	63.84	44.39	-19.45	74.00	29.61	PK	Horizontal	PASS
6	2870.94	57.79	38.71	-19.08	74.00	35.29	PK	Horizontal	PASS

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

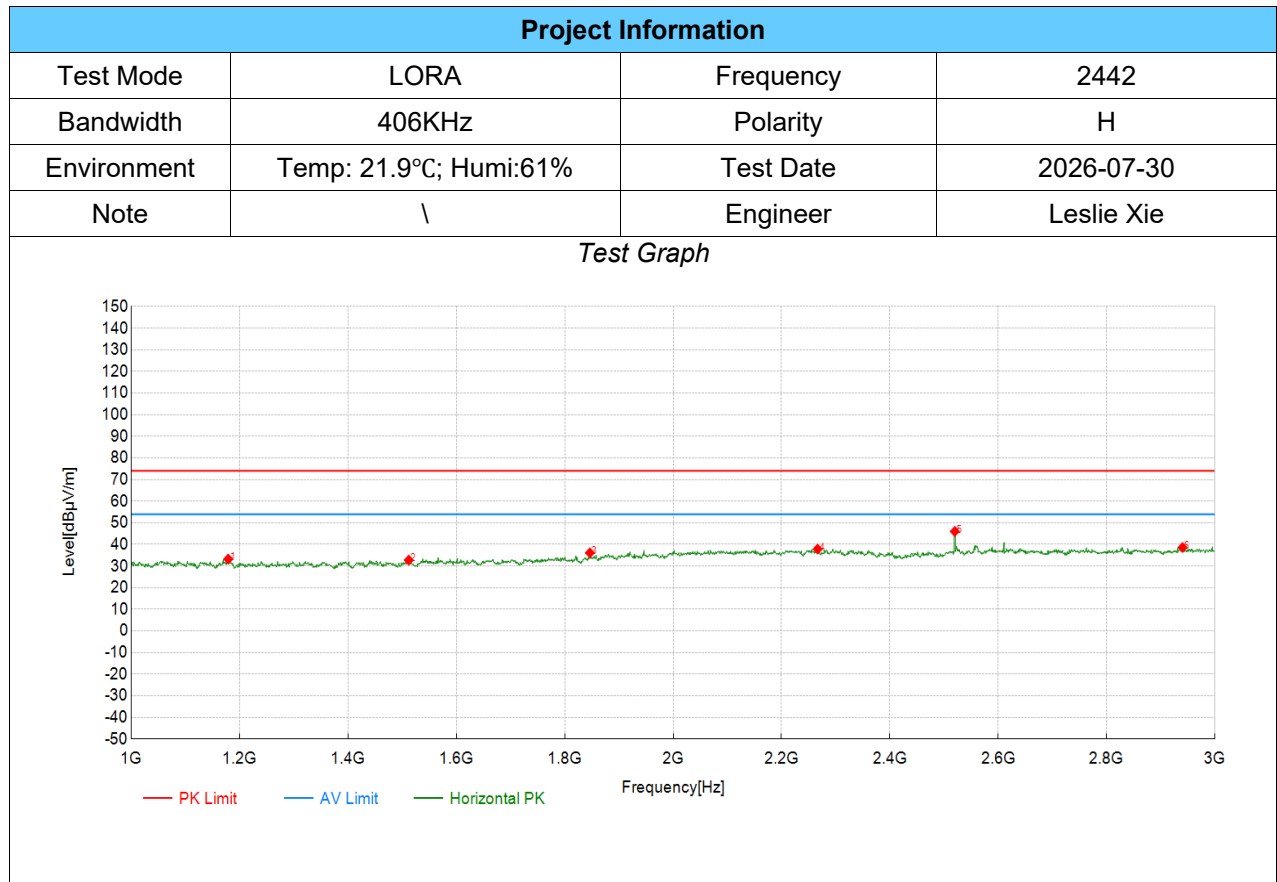
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1128.06	58.64	33.91	-24.73	74.00	40.09	PK	Vertical	PASS
2	1397.20	57.12	32.49	-24.63	74.00	41.51	PK	Vertical	PASS
3	1709.35	57.05	34.08	-22.97	74.00	39.92	PK	Vertical	PASS
4	2151.58	57.59	37.78	-19.81	74.00	36.22	PK	Vertical	PASS
5	2538.77	68.28	48.72	-19.56	74.00	25.28	PK	Vertical	PASS
6	2951.98	57.21	38.18	-19.03	74.00	35.82	PK	Vertical	PASS

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

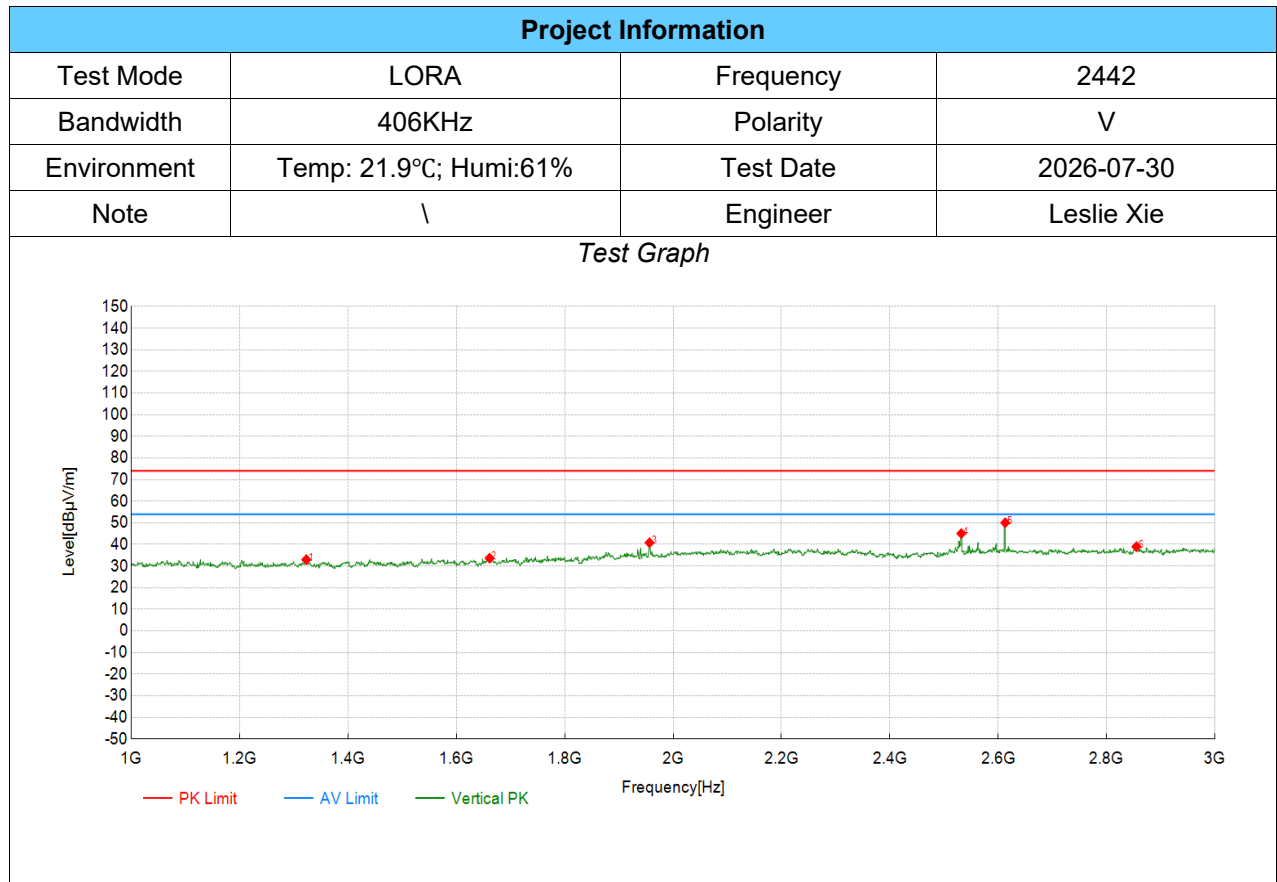
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1179.09	57.87	33.24	-24.63	74.00	40.76	PK	Horizontal	PASS
2	1512.26	57.25	32.75	-24.50	74.00	41.25	PK	Horizontal	PASS
3	1846.42	57.89	36.12	-21.77	74.00	37.88	PK	Horizontal	PASS
4	2266.63	57.55	37.85	-19.70	74.00	36.15	PK	Horizontal	PASS
5	2519.76	65.63	46.04	-19.59	74.00	27.96	PK	Horizontal	PASS
6	2939.97	57.62	38.58	-19.04	74.00	35.42	PK	Horizontal	PASS

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

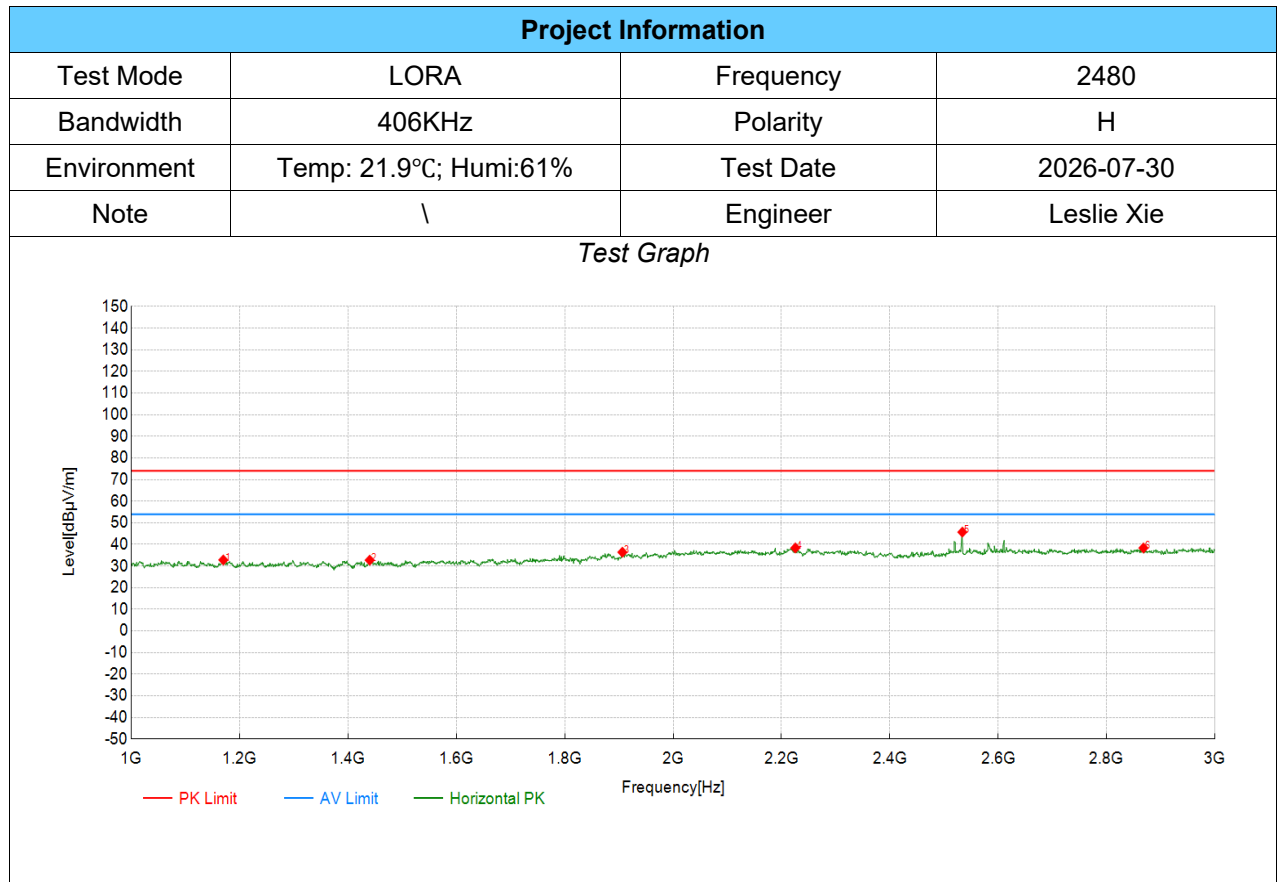
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1323.16	57.60	32.98	-24.62	74.00	41.02	PK	Vertical	PASS
2	1661.33	56.99	33.65	-23.34	74.00	40.35	PK	Vertical	PASS
3	1956.48	61.39	40.80	-20.59	74.00	33.20	PK	Vertical	PASS
4	2531.77	64.64	45.07	-19.57	74.00	28.93	PK	Vertical	PASS
5	2612.81	69.46	50.02	-19.44	74.00	23.98	PK	Vertical	PASS
6	2854.93	58.07	38.98	-19.09	74.00	35.02	PK	Vertical	PASS

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

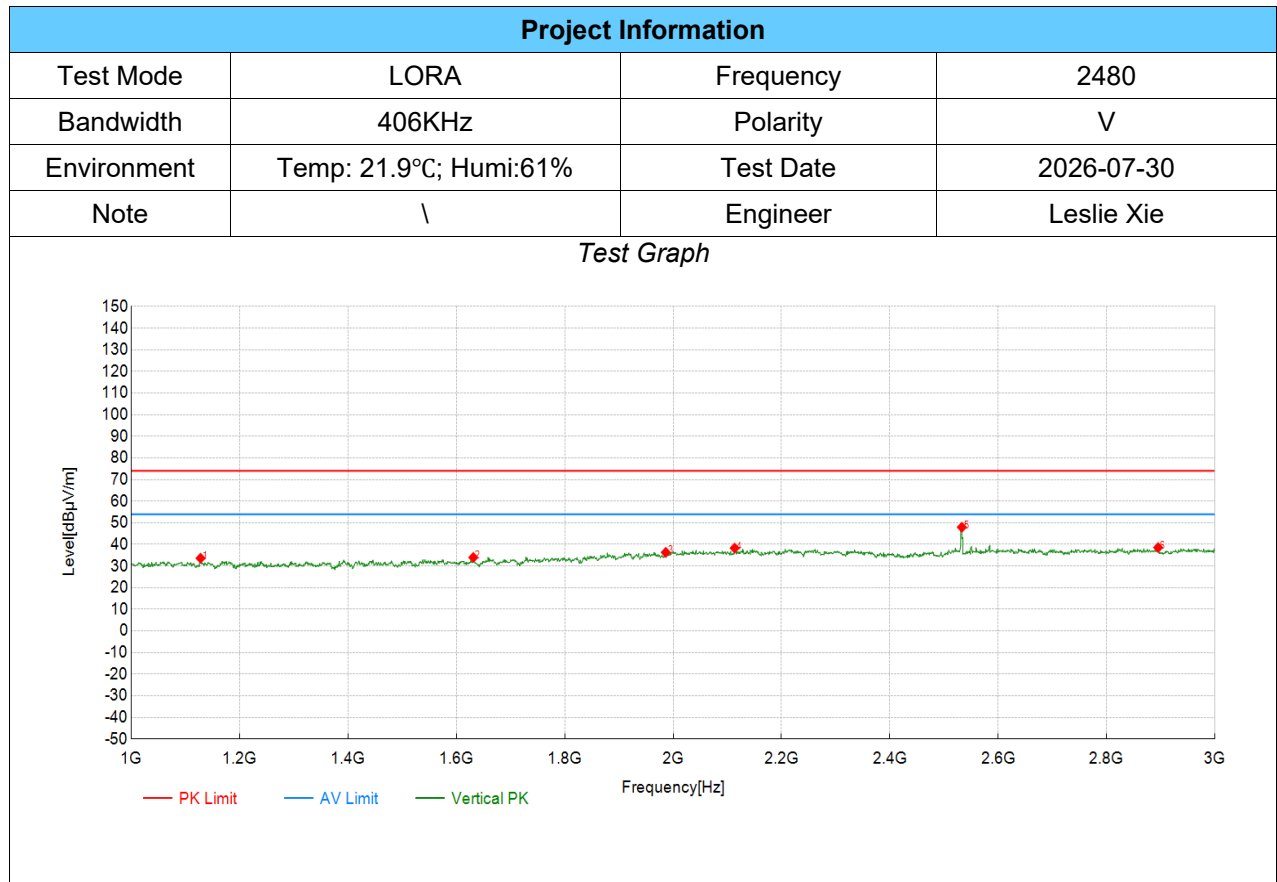
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1170.09	57.46	32.81	-24.65	74.00	41.19	PK	Horizontal	PASS
2	1440.22	57.35	32.73	-24.62	74.00	41.27	PK	Horizontal	PASS
3	1906.45	57.55	36.42	-21.13	74.00	37.58	PK	Horizontal	PASS
4	2225.61	58.09	38.38	-19.71	74.00	35.62	PK	Horizontal	PASS
5	2533.77	65.27	45.70	-19.57	74.00	28.30	PK	Horizontal	PASS
6	2867.93	57.45	38.36	-19.09	74.00	35.64	PK	Horizontal	PASS

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

TX Radiated Test Result

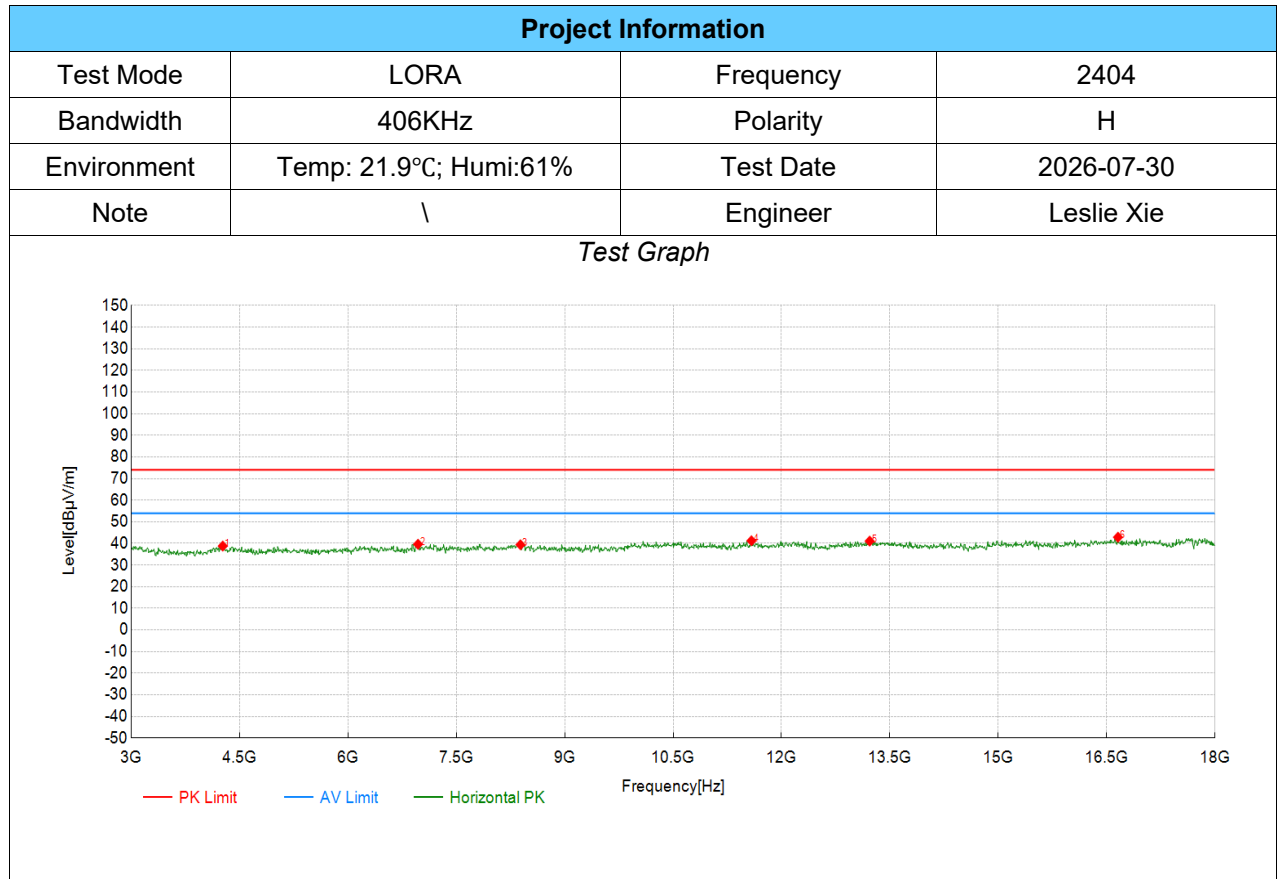


PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1128.06	58.35	33.62	-24.73	74.00	40.38	PK	Vertical	PASS
2	1631.32	57.53	33.97	-23.56	74.00	40.03	PK	Vertical	PASS
3	1986.49	56.59	36.33	-20.26	74.00	37.67	PK	Vertical	PASS
4	2113.56	58.19	38.30	-19.89	74.00	35.70	PK	Vertical	PASS
5	2532.77	67.53	47.96	-19.57	74.00	26.04	PK	Vertical	PASS
6	2894.95	57.62	38.56	-19.06	74.00	35.44	PK	Vertical	PASS

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

8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

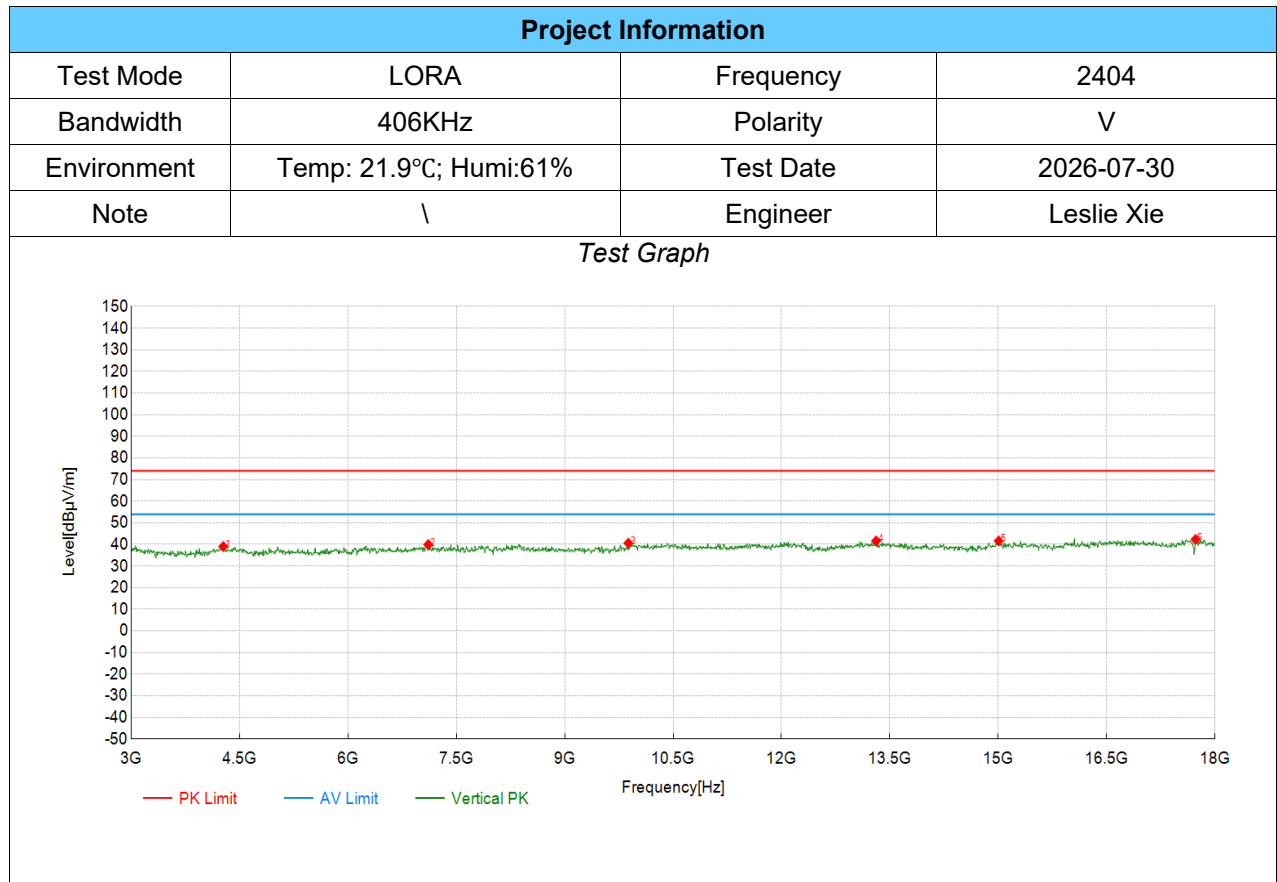
TX Radiated Test Result



PEAK Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4268.13	56.46	38.80	-17.66	74.00	35.20	PK	Horizontal	PASS
2	6969.48	54.58	39.63	-14.95	74.00	34.37	PK	Horizontal	PASS
3	8387.69	51.96	39.39	-12.57	74.00	34.61	PK	Horizontal	PASS
4	11584.29	49.86	41.24	-8.62	74.00	32.76	PK	Horizontal	PASS
5	13220.11	51.95	41.07	-10.88	74.00	32.93	PK	Horizontal	PASS
6	16656.83	50.54	42.89	-7.65	74.00	31.11	PK	Horizontal	PASS

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

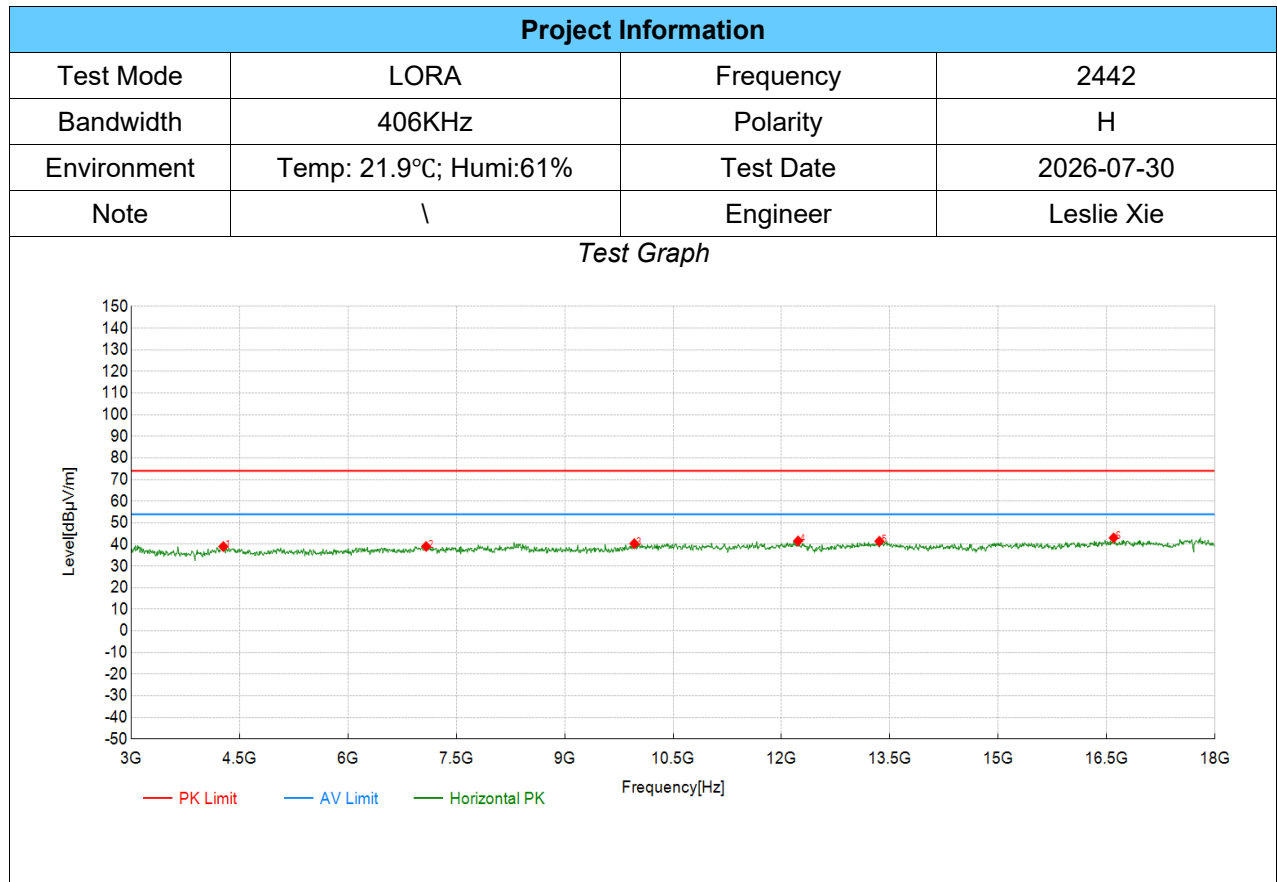
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4275.64	56.69	39.01	-17.68	74.00	34.99	PK	Vertical	PASS
2	7112.06	55.01	39.95	-15.06	74.00	34.05	PK	Vertical	PASS
3	9880.94	52.07	40.61	-11.46	74.00	33.39	PK	Vertical	PASS
4	13310.16	52.74	41.65	-11.09	74.00	32.35	PK	Vertical	PASS
5	15006.00	50.87	41.60	-9.27	74.00	32.40	PK	Vertical	PASS
6	17729.86	47.40	42.33	-5.07	74.00	31.67	PK	Vertical	PASS

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

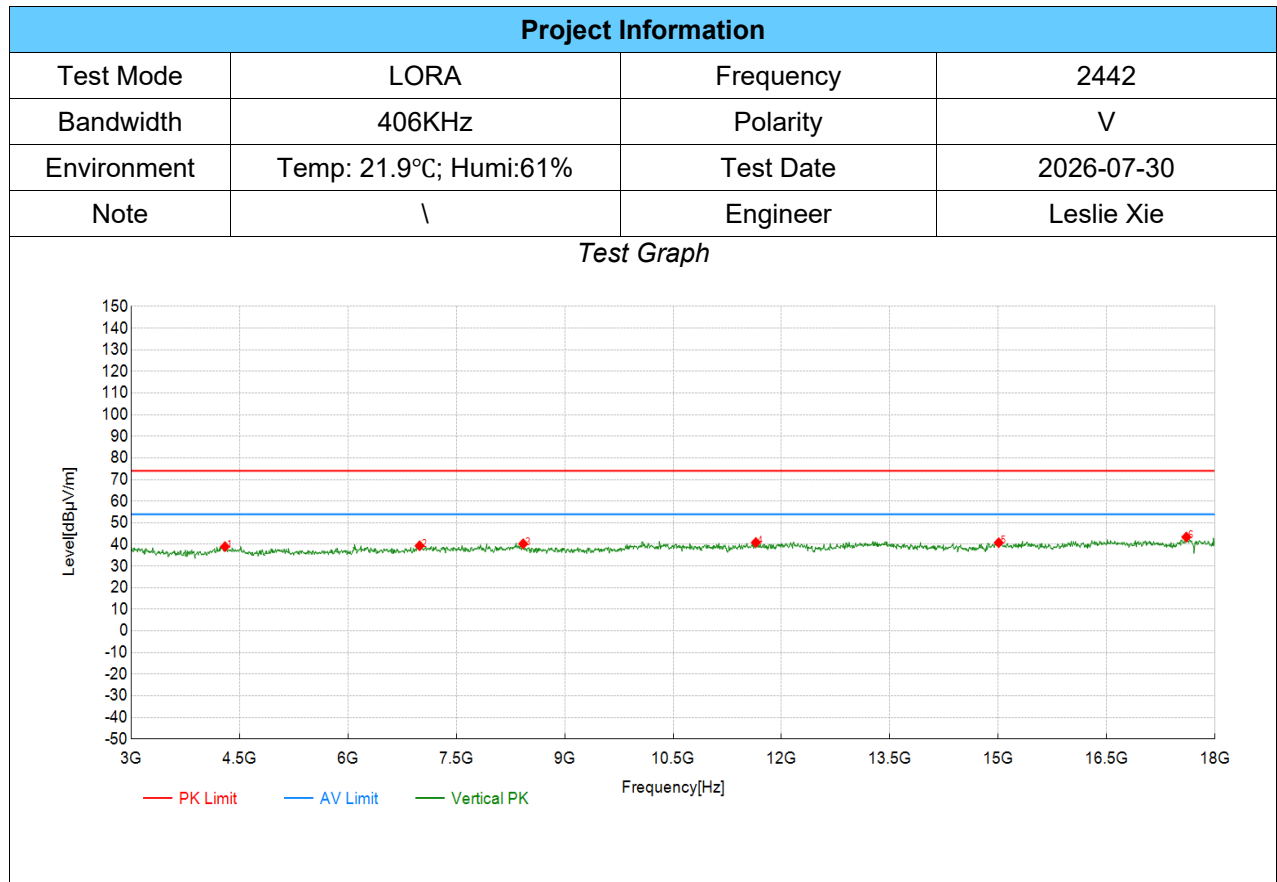
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4275.64	56.70	39.02	-17.68	74.00	34.98	PK	Horizontal	PASS
2	7082.04	54.06	39.07	-14.99	74.00	34.93	PK	Horizontal	PASS
3	9963.48	51.26	40.36	-10.90	74.00	33.64	PK	Horizontal	PASS
4	12229.61	51.56	41.61	-9.95	74.00	32.39	PK	Horizontal	PASS
5	13355.18	52.65	41.46	-11.19	74.00	32.54	PK	Horizontal	PASS
6	16596.80	50.60	43.04	-7.56	74.00	30.96	PK	Horizontal	PASS

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

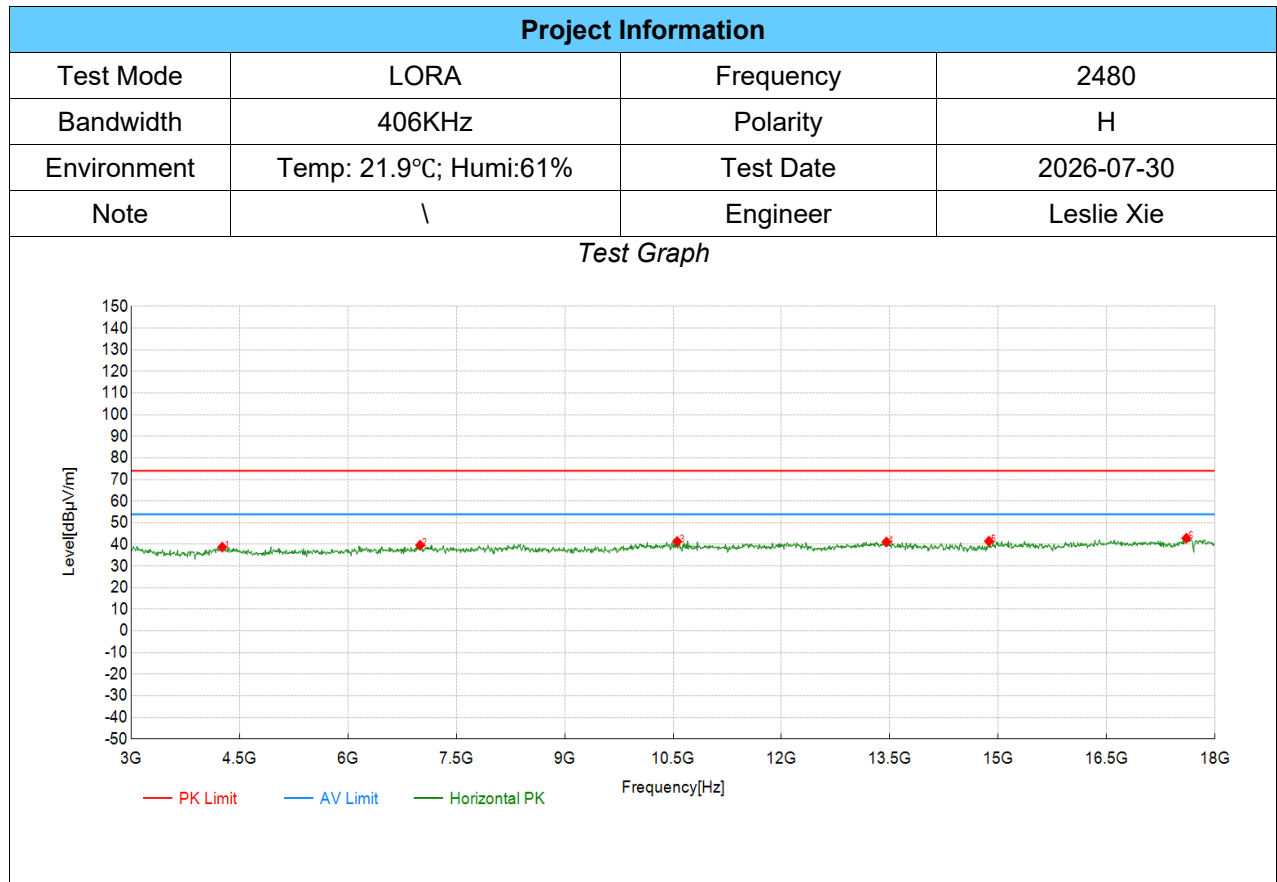
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4298.15	56.71	38.99	-17.72	74.00	35.01	PK	Vertical	PASS
2	6992.00	54.24	39.39	-14.85	74.00	34.61	PK	Vertical	PASS
3	8425.21	52.88	40.28	-12.60	74.00	33.72	PK	Vertical	PASS
4	11644.32	49.84	40.88	-8.96	74.00	33.12	PK	Vertical	PASS
5	15006.00	50.07	40.80	-9.27	74.00	33.20	PK	Vertical	PASS
6	17602.30	48.40	43.40	-5.00	74.00	30.60	PK	Vertical	PASS

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

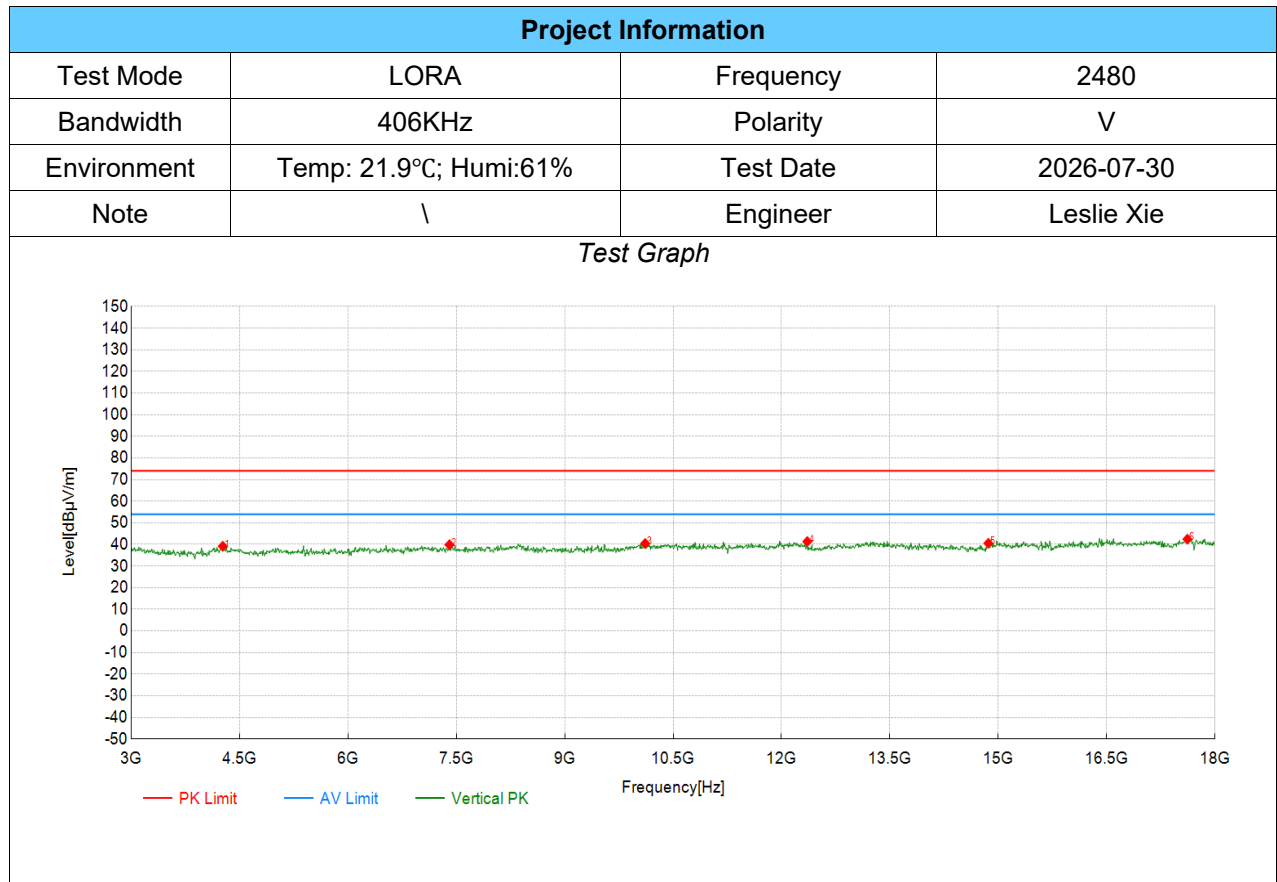
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4260.63	56.40	38.75	-17.65	74.00	35.25	PK	Horizontal	PASS
2	6999.50	54.47	39.65	-14.82	74.00	34.35	PK	Horizontal	PASS
3	10556.28	50.91	41.39	-9.52	74.00	32.61	PK	Horizontal	PASS
4	13452.73	52.75	41.13	-11.62	74.00	32.87	PK	Horizontal	PASS
5	14870.94	51.23	41.50	-9.73	74.00	32.50	PK	Horizontal	PASS
6	17602.30	47.87	42.87	-5.00	74.00	31.13	PK	Horizontal	PASS

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

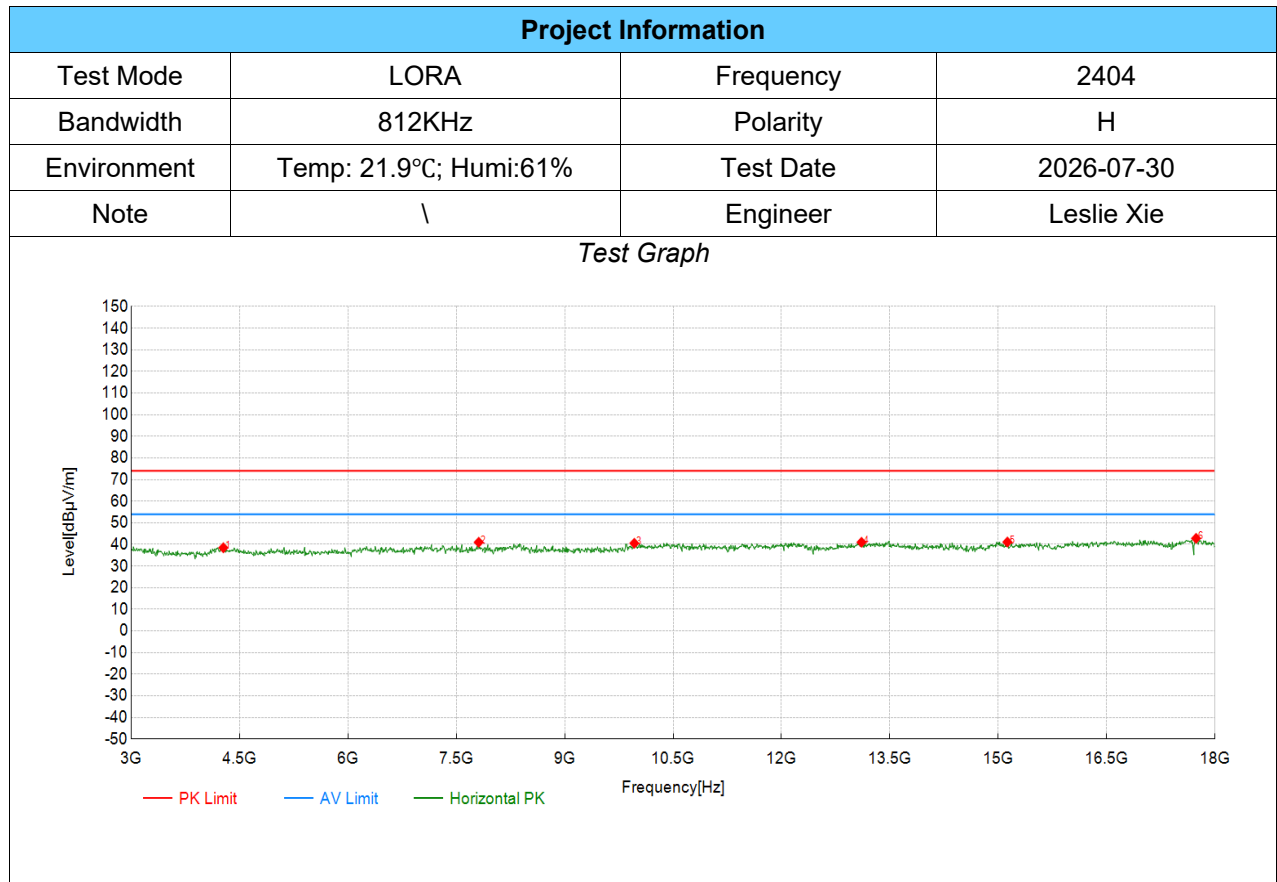
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4268.13	56.80	39.14	-17.66	74.00	34.86	PK	Vertical	PASS
2	7404.70	55.00	39.86	-15.14	74.00	34.14	PK	Vertical	PASS
3	10113.56	51.47	40.44	-11.03	74.00	33.56	PK	Vertical	PASS
4	12357.18	52.12	41.35	-10.77	74.00	32.65	PK	Vertical	PASS
5	14863.43	50.30	40.55	-9.75	74.00	33.45	PK	Vertical	PASS
6	17617.31	47.47	42.45	-5.02	74.00	31.55	PK	Vertical	PASS

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

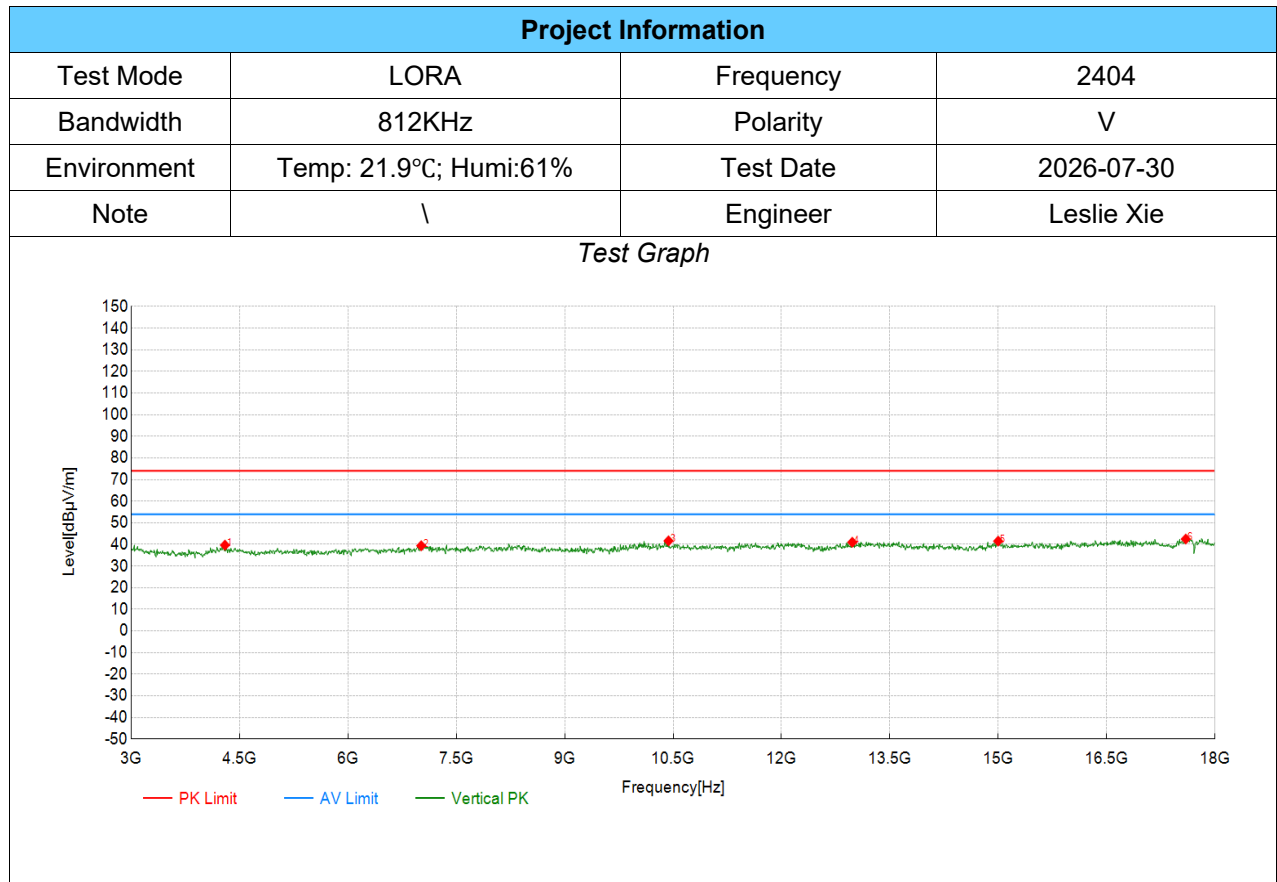
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4275.64	56.15	38.47	-17.68	74.00	35.53	PK	Horizontal	PASS
2	7809.90	55.86	41.02	-14.84	74.00	32.98	PK	Horizontal	PASS
3	9963.48	51.44	40.54	-10.90	74.00	33.46	PK	Horizontal	PASS
4	13107.55	52.18	41.00	-11.18	74.00	33.00	PK	Horizontal	PASS
5	15126.06	51.03	41.10	-9.93	74.00	32.90	PK	Horizontal	PASS
6	17737.37	47.89	42.81	-5.08	74.00	31.19	PK	Horizontal	PASS

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

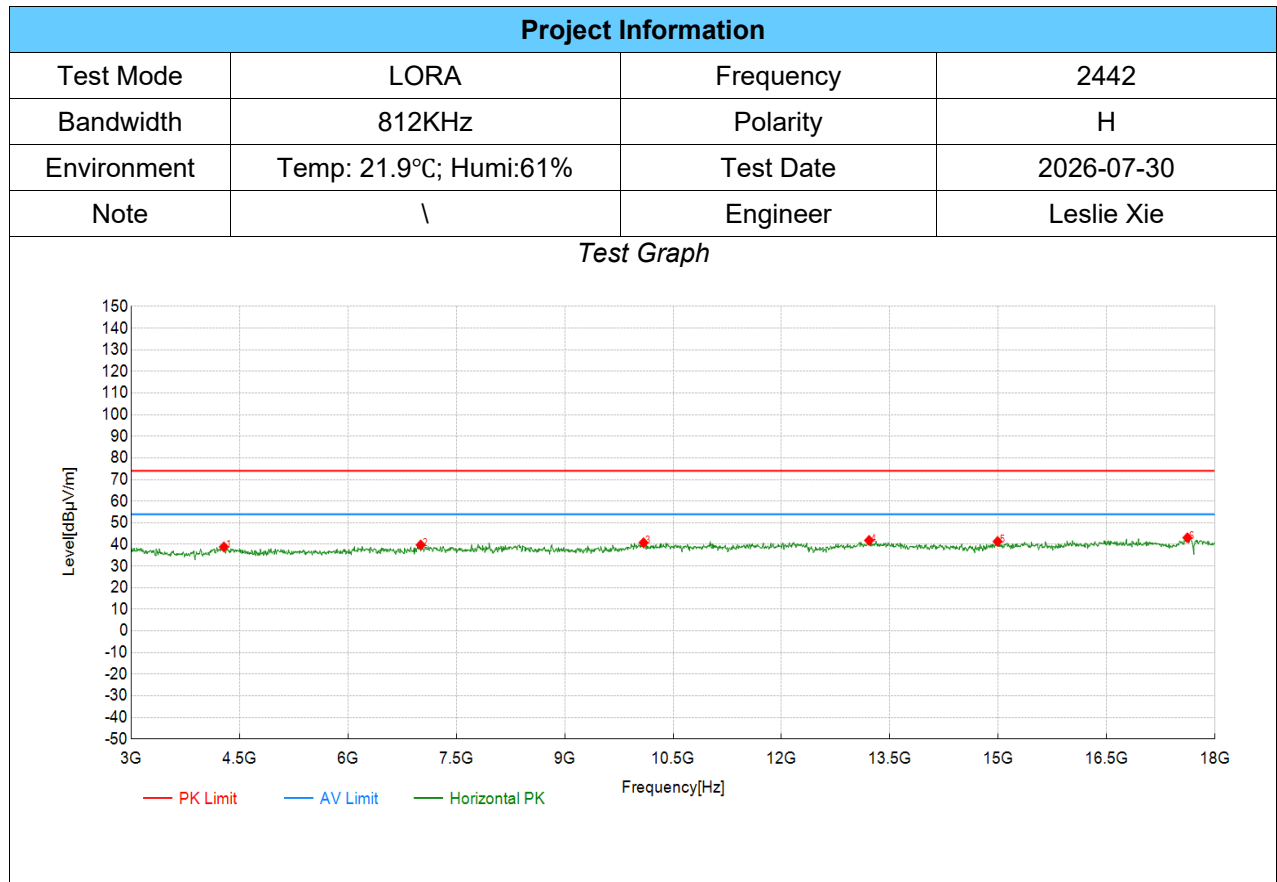
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4298.15	57.39	39.67	-17.72	74.00	34.33	PK	Vertical	PASS
2	7014.51	54.25	39.40	-14.85	74.00	34.60	PK	Vertical	PASS
3	10436.22	51.26	41.66	-9.60	74.00	32.34	PK	Vertical	PASS
4	12979.99	52.56	41.00	-11.56	74.00	33.00	PK	Vertical	PASS
5	14998.50	50.79	41.55	-9.24	74.00	32.45	PK	Vertical	PASS
6	17594.80	47.58	42.51	-5.07	74.00	31.49	PK	Vertical	PASS

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

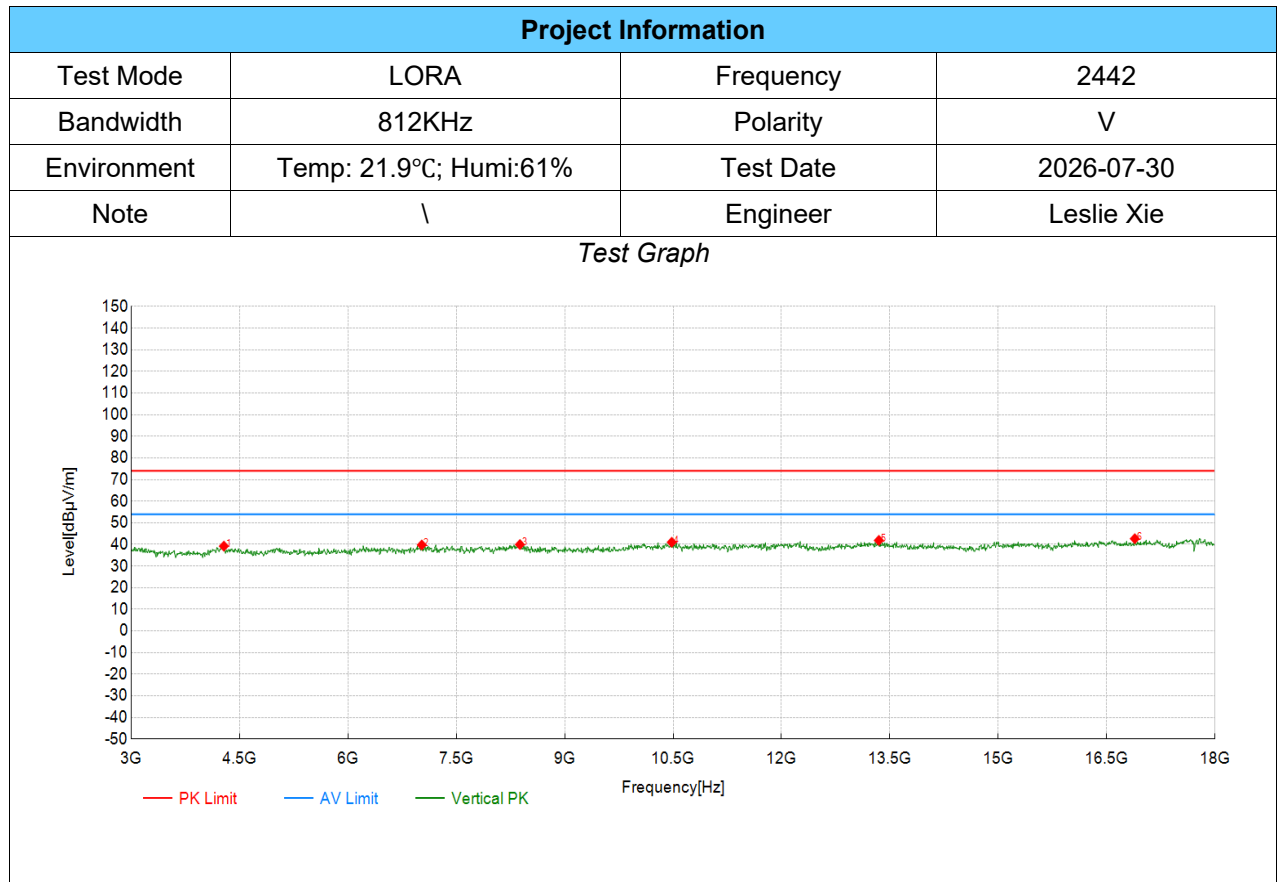
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4283.14	56.54	38.85	-17.69	74.00	35.15	PK	Horizontal	PASS
2	7007.00	54.59	39.75	-14.84	74.00	34.25	PK	Horizontal	PASS
3	10091.05	51.75	40.79	-10.96	74.00	33.21	PK	Horizontal	PASS
4	13212.61	52.72	41.87	-10.85	74.00	32.13	PK	Horizontal	PASS
5	14991.00	50.64	41.36	-9.28	74.00	32.64	PK	Horizontal	PASS
6	17617.31	48.13	43.11	-5.02	74.00	30.89	PK	Horizontal	PASS

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

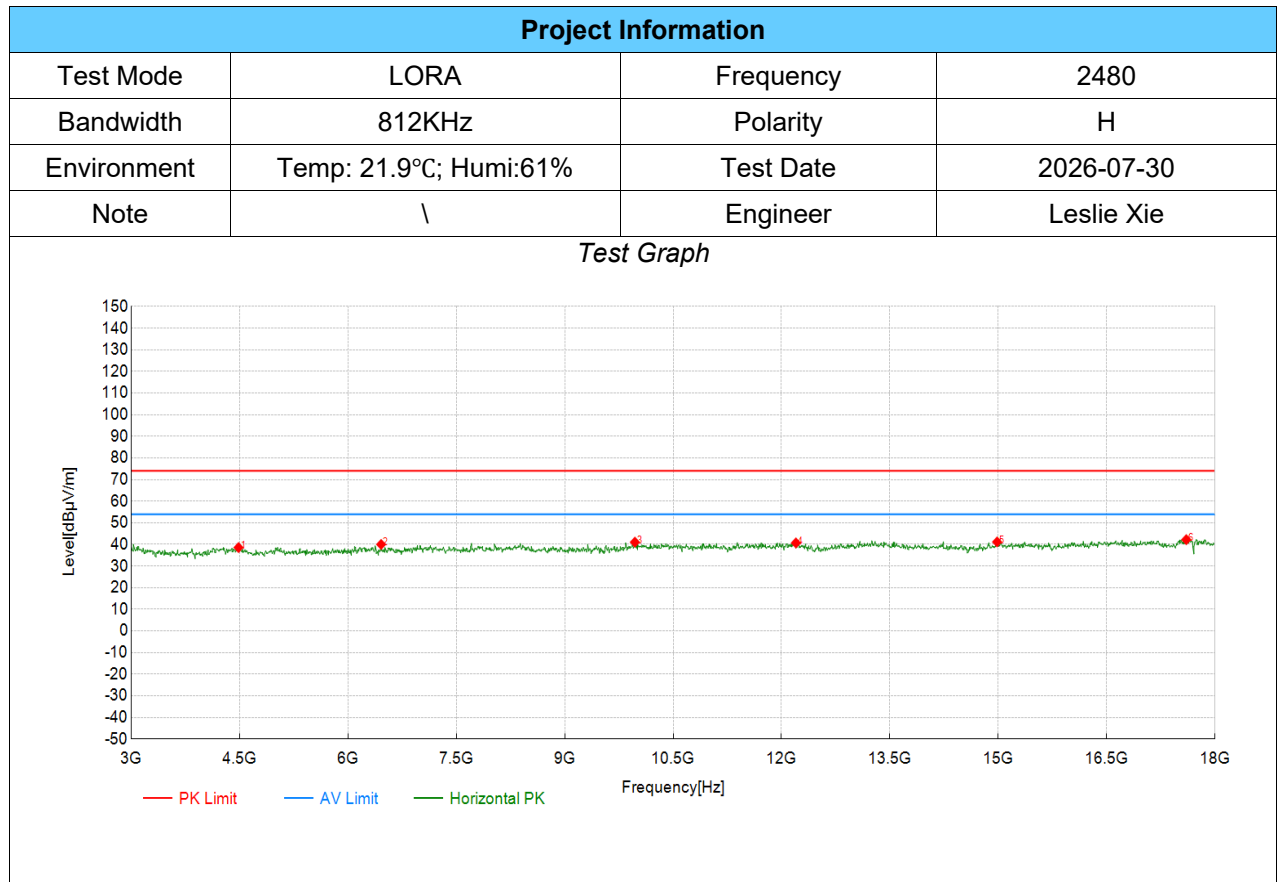
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4283.14	56.91	39.22	-17.69	74.00	34.78	PK	Vertical	PASS
2	7022.01	54.63	39.76	-14.87	74.00	34.24	PK	Vertical	PASS
3	8380.19	52.62	39.97	-12.65	74.00	34.03	PK	Vertical	PASS
4	10481.24	50.59	41.01	-9.58	74.00	32.99	PK	Vertical	PASS
5	13347.67	53.07	41.88	-11.19	74.00	32.12	PK	Vertical	PASS
6	16889.44	50.30	42.66	-7.64	74.00	31.34	PK	Vertical	PASS

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

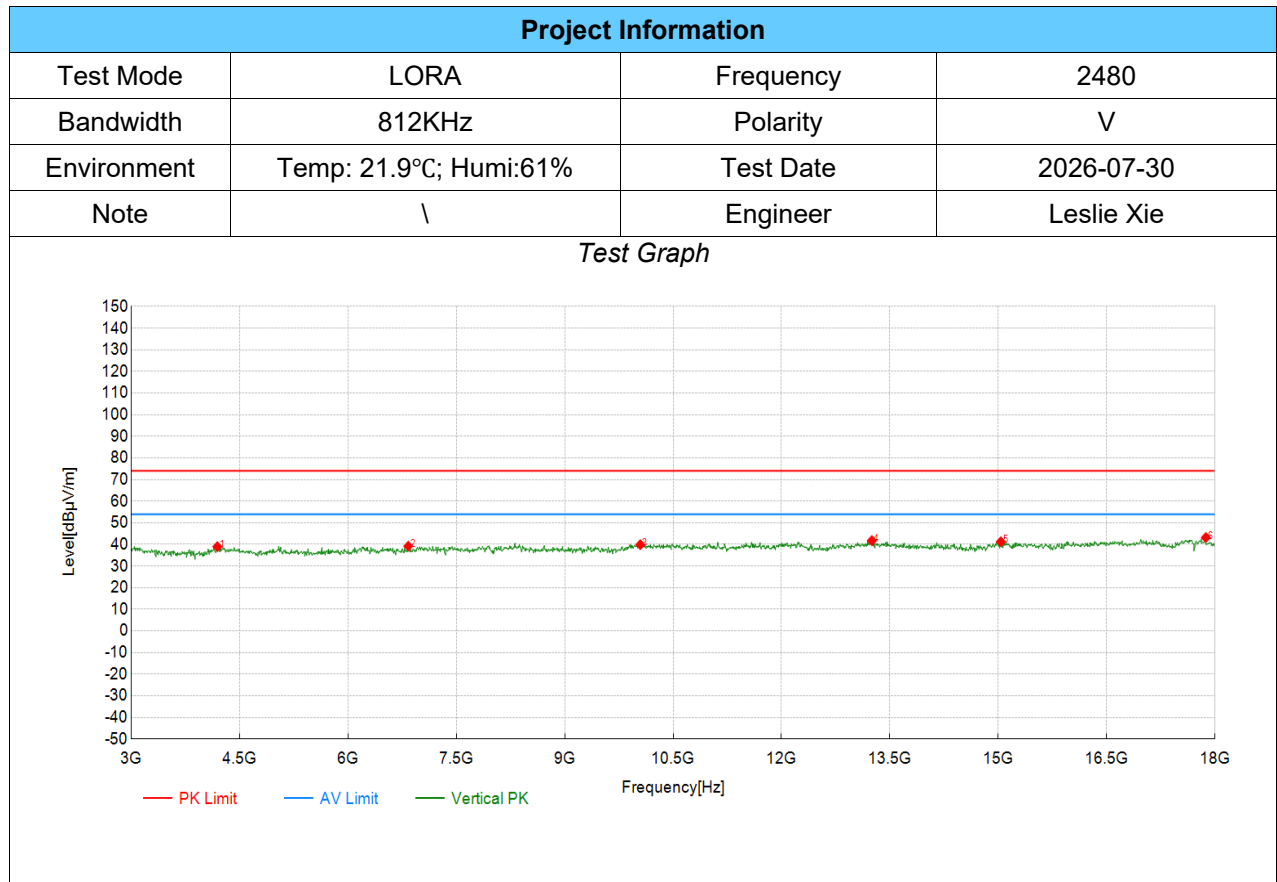
TX Radiated Test Result



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4485.74	56.65	38.57	-18.08	74.00	35.43	PK	Horizontal	PASS
2	6459.23	56.26	40.01	-16.25	74.00	33.99	PK	Horizontal	PASS
3	9970.99	51.88	41.04	-10.84	74.00	32.96	PK	Horizontal	PASS
4	12199.60	50.45	40.69	-9.76	74.00	33.31	PK	Horizontal	PASS
5	14983.49	50.46	41.16	-9.30	74.00	32.84	PK	Horizontal	PASS
6	17602.30	47.22	42.22	-5.00	74.00	31.78	PK	Horizontal	PASS

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

TX Radiated Test Result

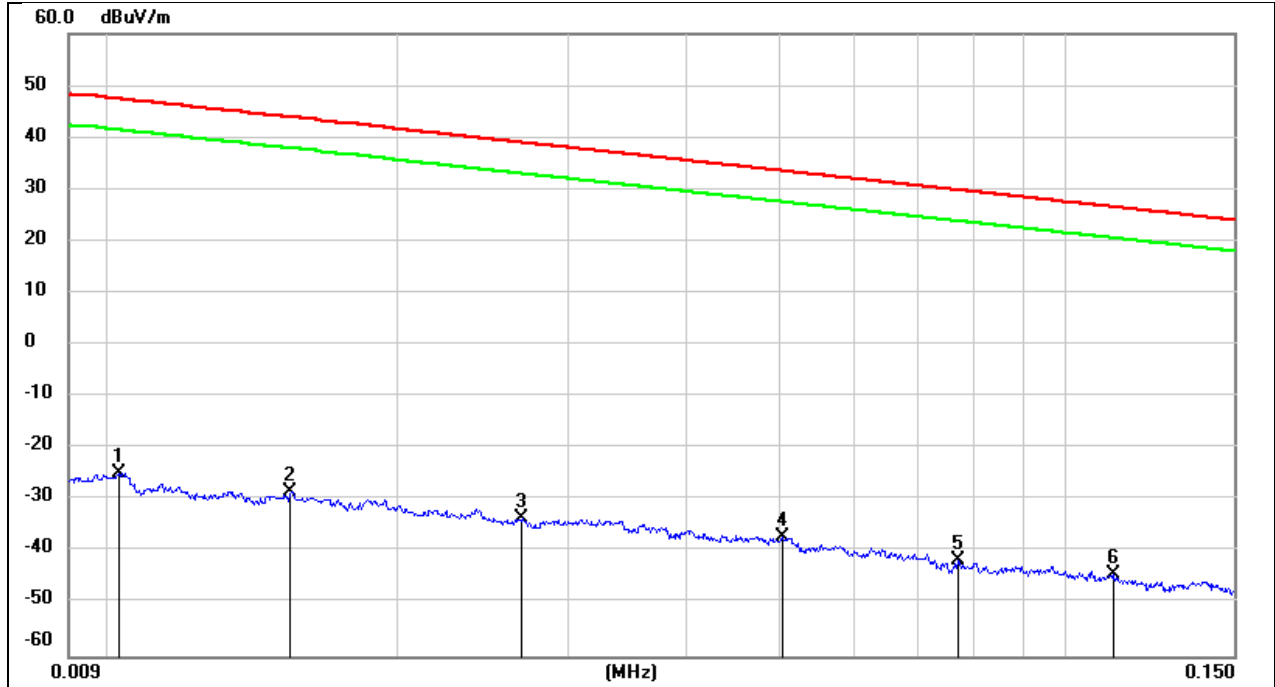


PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4193.10	56.56	38.98	-17.58	74.00	35.02	PK	Vertical	PASS
2	6834.42	54.73	39.19	-15.54	74.00	34.81	PK	Vertical	PASS
3	10046.02	50.67	39.88	-10.79	74.00	34.12	PK	Vertical	PASS
4	13250.13	52.70	41.76	-10.94	74.00	32.24	PK	Vertical	PASS
5	15036.02	50.70	41.26	-9.44	74.00	32.74	PK	Vertical	PASS
6	17872.44	48.58	43.19	-5.39	74.00	30.81	PK	Vertical	PASS

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

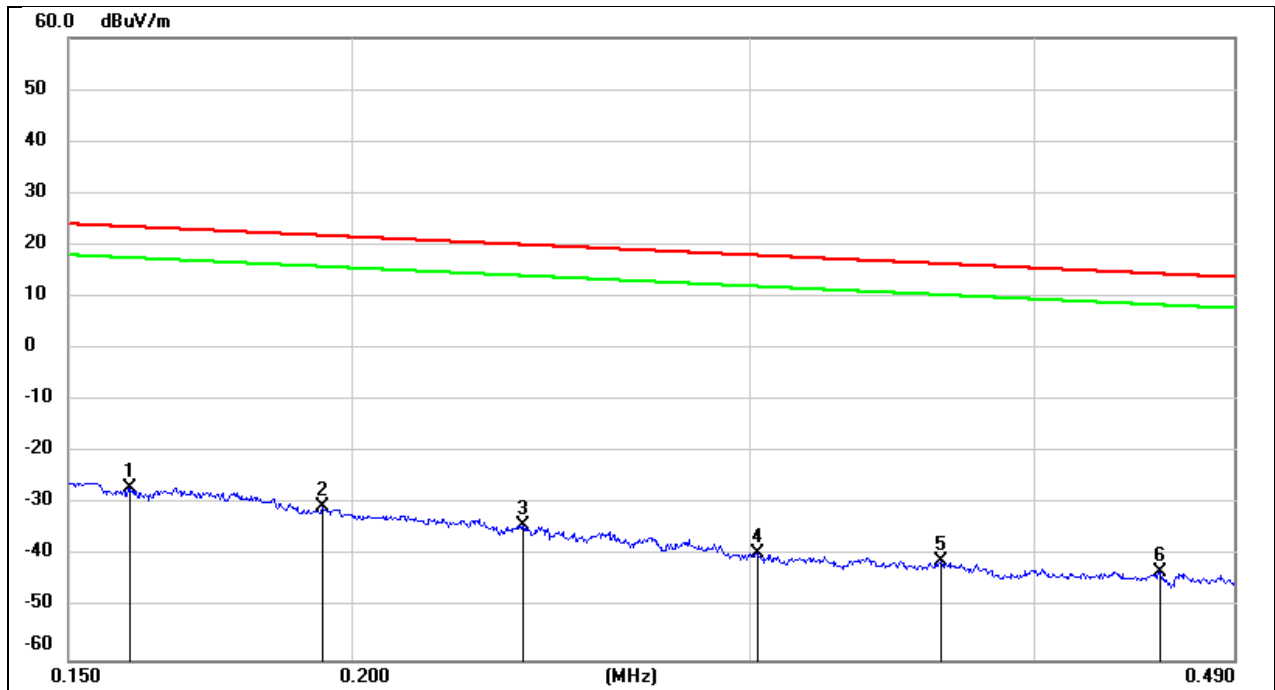
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



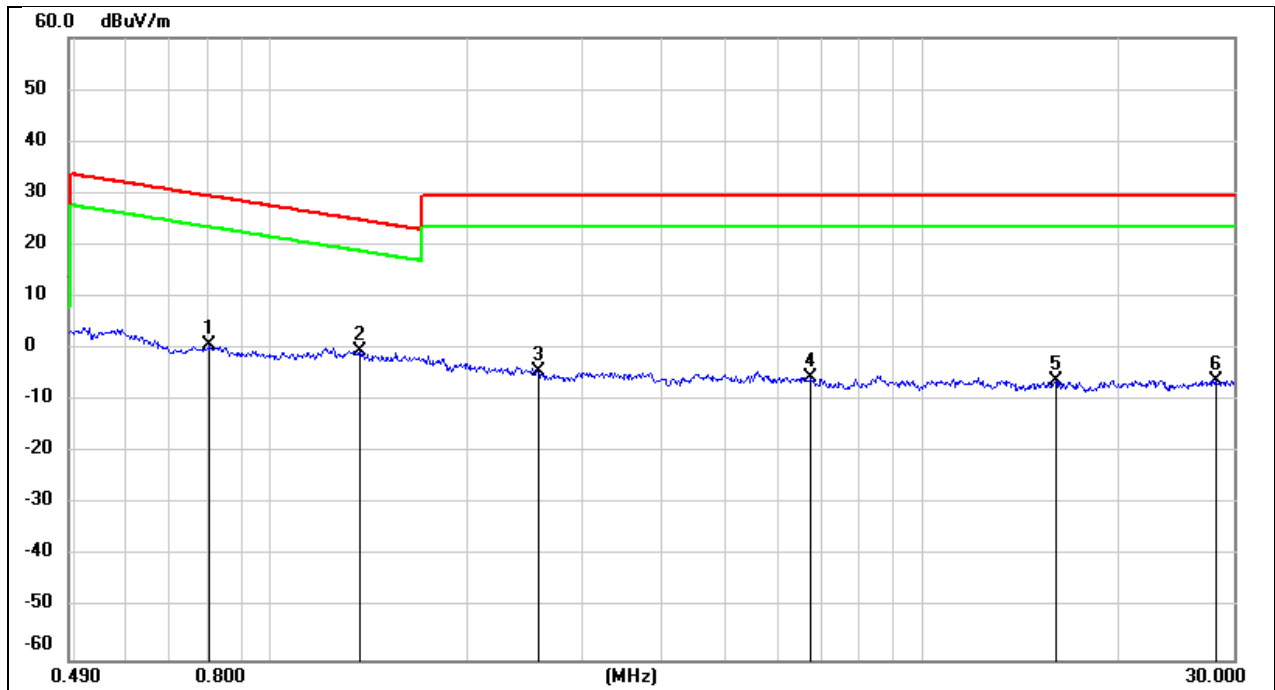
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0102	76.55	-101.40	-24.85	47.43	-72.28	peak
2	0.0154	72.99	-101.37	-28.38	43.85	-72.23	peak
3	0.0269	67.89	-101.38	-33.49	39.01	-72.50	peak
4	0.0504	64.38	-101.48	-37.10	33.55	-70.65	peak
5	0.0771	59.96	-101.61	-41.65	29.86	-71.51	peak
6	0.1121	57.38	-101.76	-44.38	26.61	-70.99	peak

Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.1595	74.86	-101.65	-26.79	23.55	-50.34	peak
2	0.1942	71.31	-101.70	-30.39	21.84	-52.23	peak
3	0.2381	67.79	-101.78	-33.99	20.07	-54.06	peak
4	0.3019	62.43	-101.85	-39.42	18.00	-57.42	peak
5	0.3642	60.93	-101.93	-41.00	16.37	-57.37	peak
6	0.4546	59.03	-102.02	-42.99	14.45	-57.44	peak

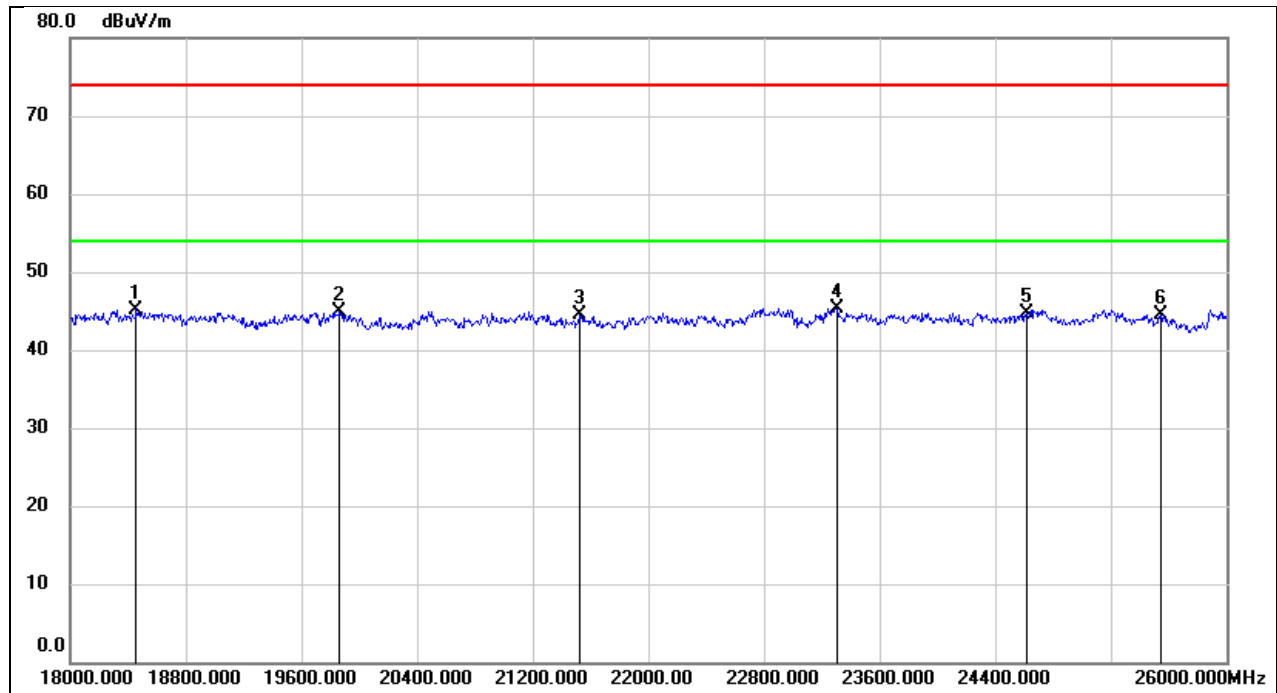
Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.8061	62.91	-62.15	0.76	29.47	-28.71	peak
2	1.3750	61.64	-62.10	-0.46	24.84	-25.30	peak
3	2.5722	57.30	-61.68	-4.38	29.54	-33.92	peak
4	6.7461	55.68	-61.25	-5.57	29.54	-35.11	peak
5	16.0411	54.72	-60.98	-6.26	29.54	-35.80	peak
6	28.3179	53.97	-60.12	-6.15	29.54	-35.69	peak

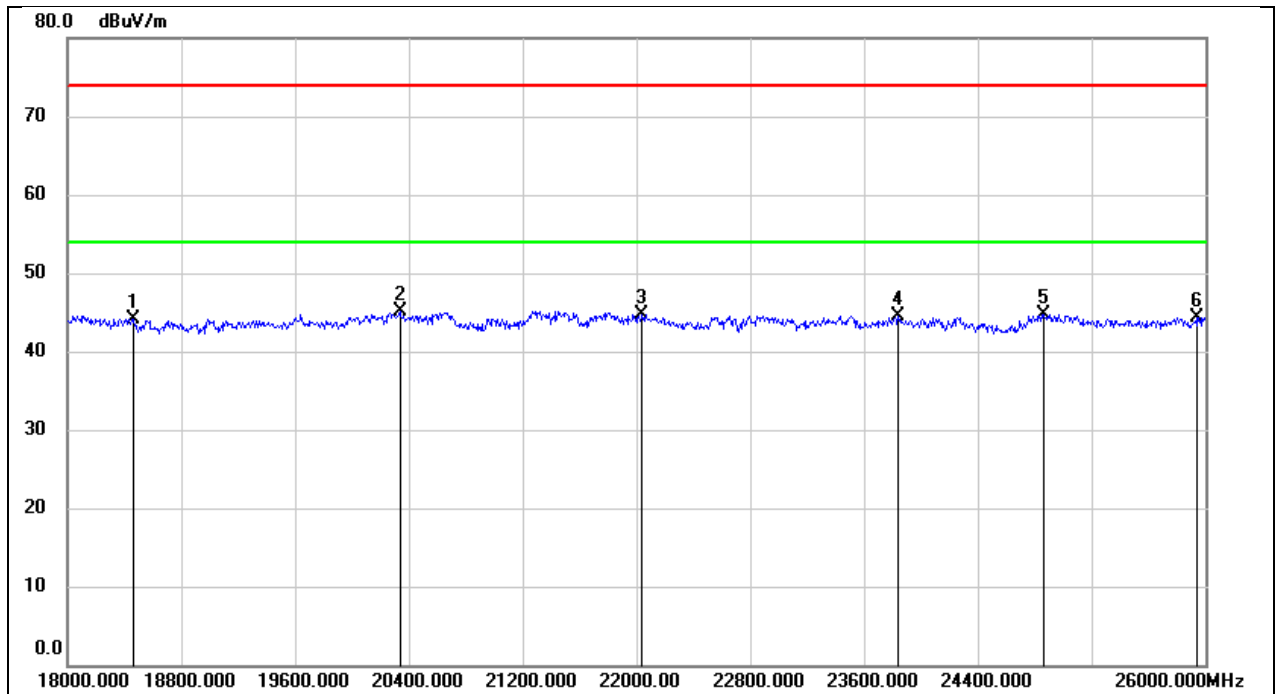
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18456.000	50.50	-5.30	45.20	74.00	-28.80	peak
2	19864.000	50.29	-5.34	44.95	74.00	-29.05	peak
3	21520.000	49.16	-4.66	44.50	74.00	-29.50	peak
4	23304.000	48.63	-3.32	45.31	74.00	-28.69	peak
5	24616.000	47.11	-2.33	44.78	74.00	-29.22	peak
6	25544.000	46.17	-1.58	44.59	74.00	-29.41	peak

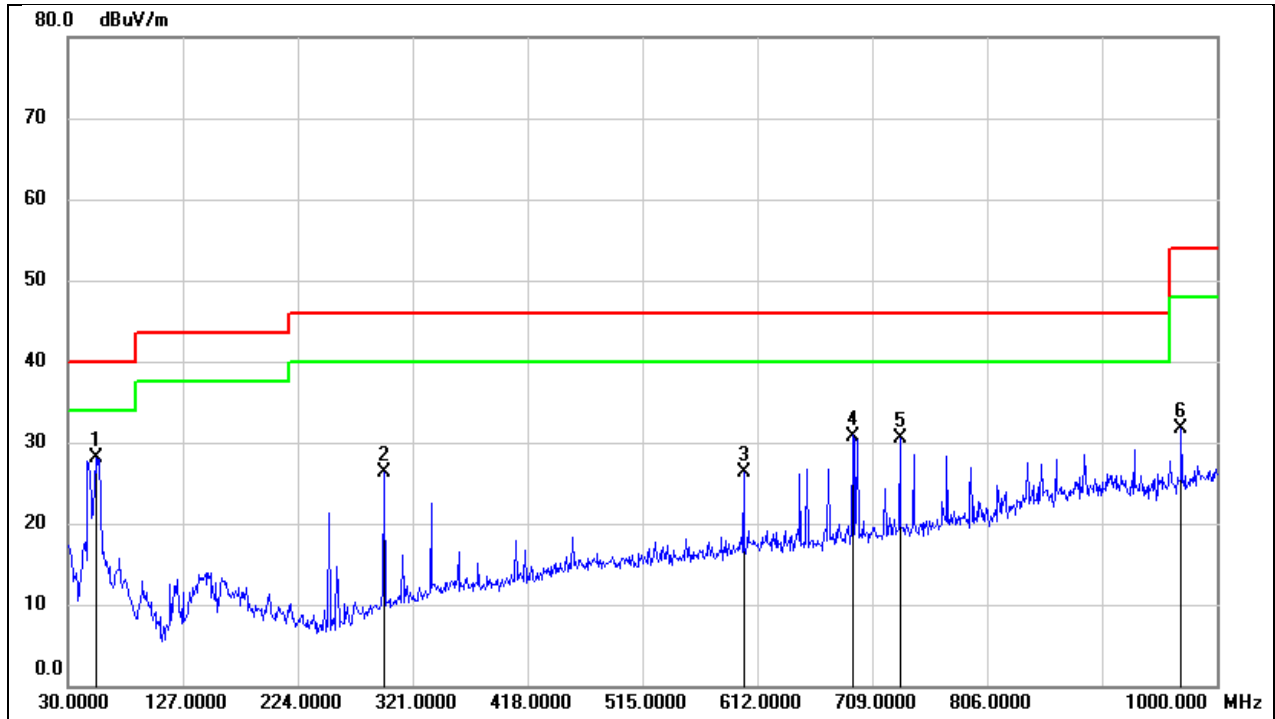
Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18464.000	49.42	-5.29	44.13	74.00	-29.87	peak
2	20336.000	50.58	-5.52	45.06	74.00	-28.94	peak
3	22040.000	49.23	-4.44	44.79	74.00	-29.21	peak
4	23840.000	47.53	-3.04	44.49	74.00	-29.51	peak
5	24864.000	47.03	-2.23	44.80	74.00	-29.20	peak
6	25936.000	45.21	-0.95	44.26	74.00	-29.74	peak

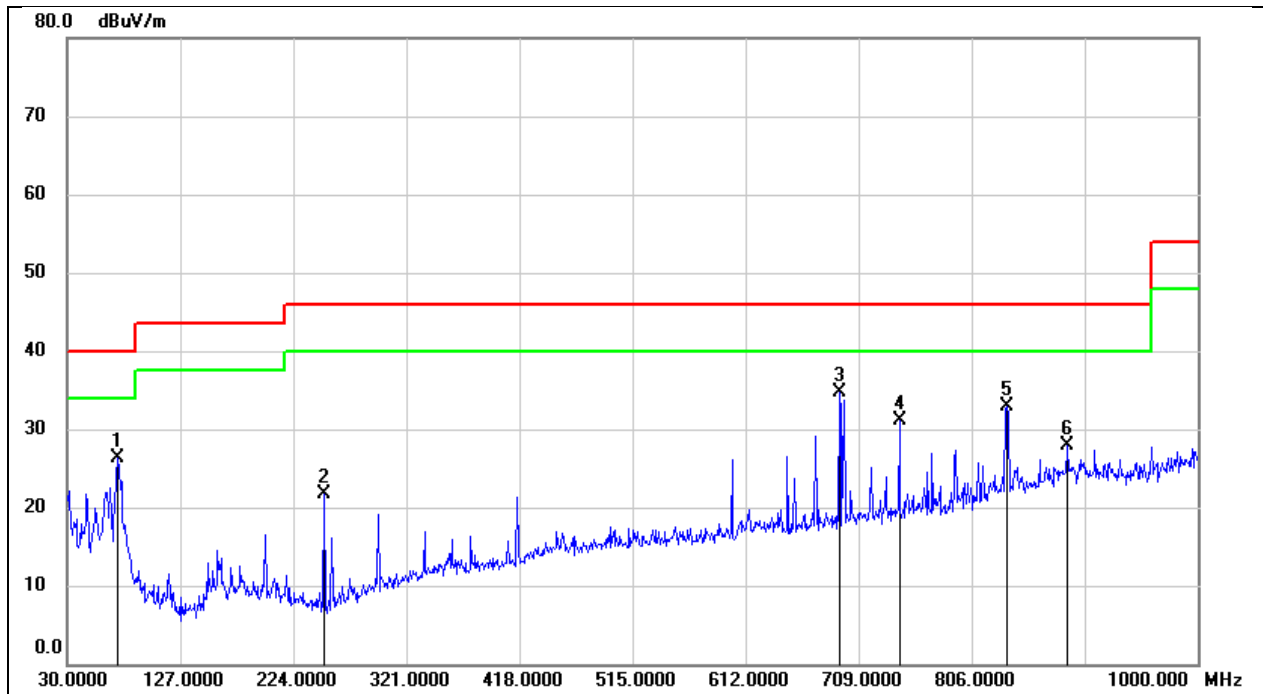
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	53.2800	43.39	-15.22	28.17	40.00	-11.83	peak
2	296.7500	37.85	-11.47	26.38	46.00	-19.62	peak
3	600.3600	31.84	-5.46	26.38	46.00	-19.62	peak
4	692.5100	35.04	-4.24	30.80	46.00	-15.20	peak
5	732.2800	34.25	-3.66	30.59	46.00	-15.41	peak
6	969.9300	32.02	-0.27	31.75	54.00	-22.25	peak

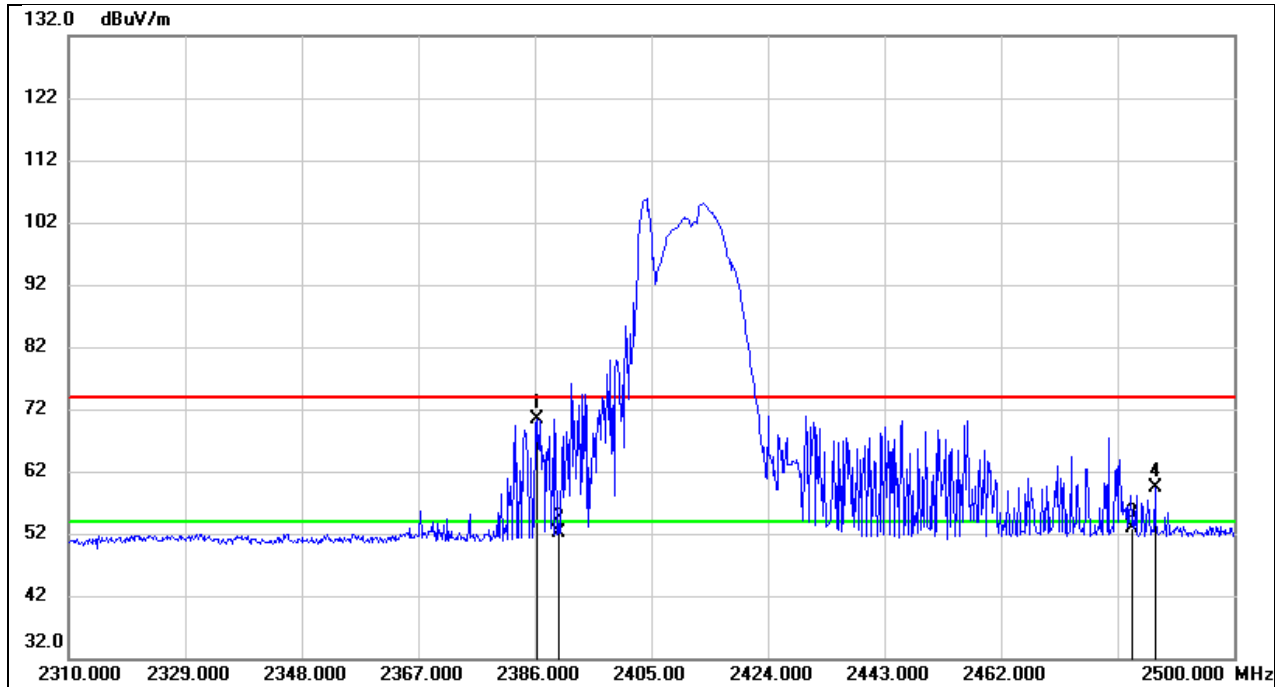
Test Mode:	CSS 406kHz	Frequency(MHz):	2404
Polarity:	Vertical	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	73.6500	42.03	-15.66	26.37	40.00	-13.63	peak
2	250.1900	36.25	-14.60	21.65	46.00	-24.35	peak
3	692.5100	38.97	-4.24	34.73	46.00	-11.27	peak
4	743.9200	34.49	-3.48	31.01	46.00	-14.99	peak
5	836.0700	34.66	-1.72	32.94	46.00	-13.06	peak
6	888.4500	28.60	-0.69	27.91	46.00	-18.09	peak

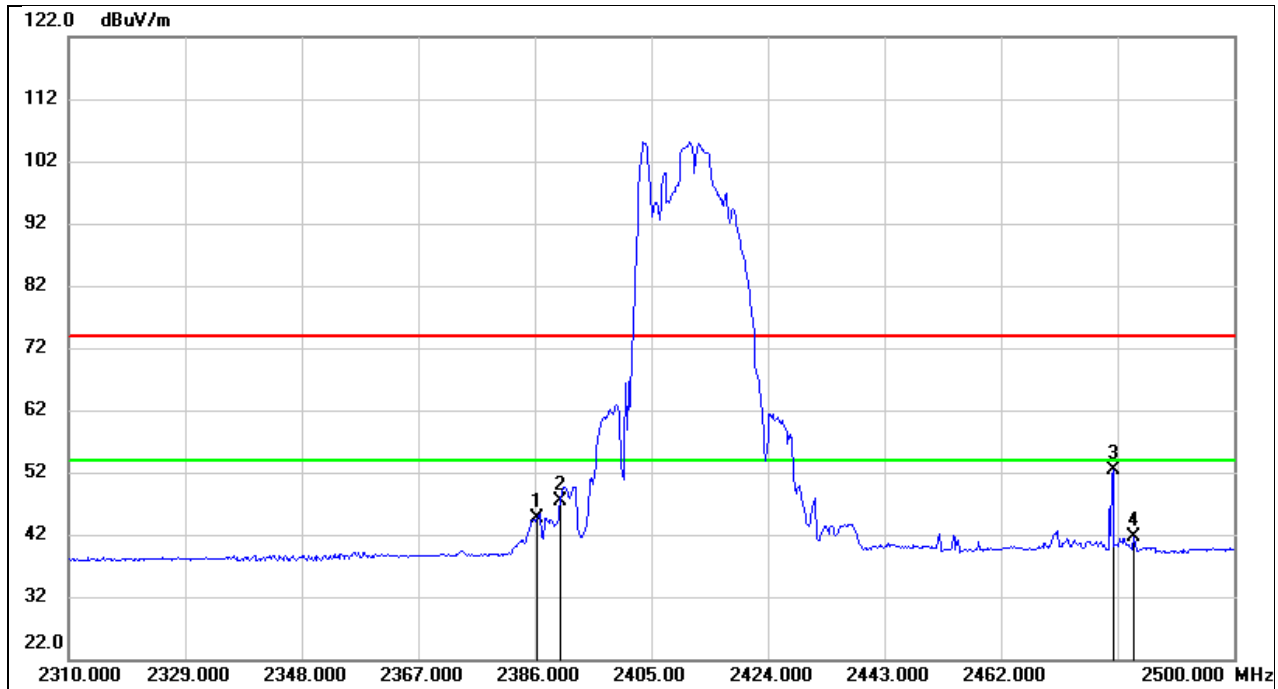
8.7. SIMULTANEOUS TRANSMISSION OF LORA & WIFI & LTE

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Horizontal- Bandedge	Test Voltage:	DC 24V



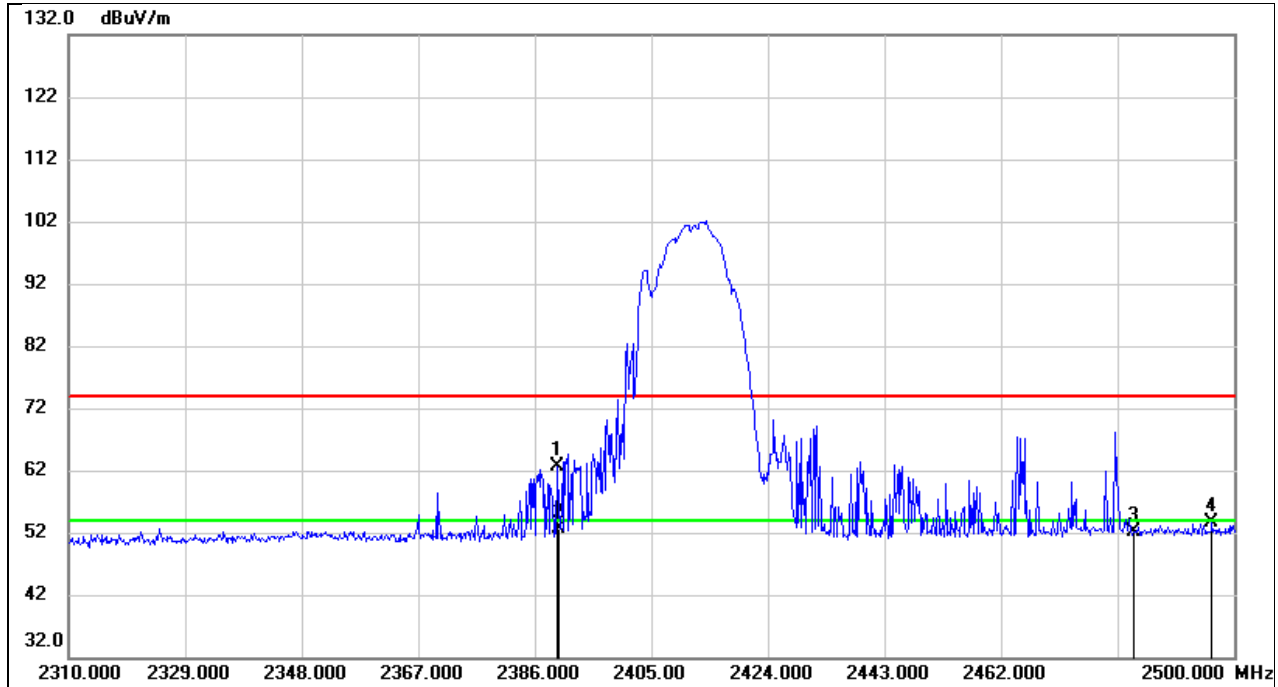
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.380	38.37	31.98	70.35	74.00	-3.65	peak
2	2390.000	20.14	31.99	52.13	74.00	-21.87	peak
3	2483.500	20.44	32.35	52.79	74.00	-21.21	peak
4	2487.080	27.04	32.36	59.40	74.00	-14.60	peak

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Horizontal- Bandedge	Test Voltage:	DC 24V



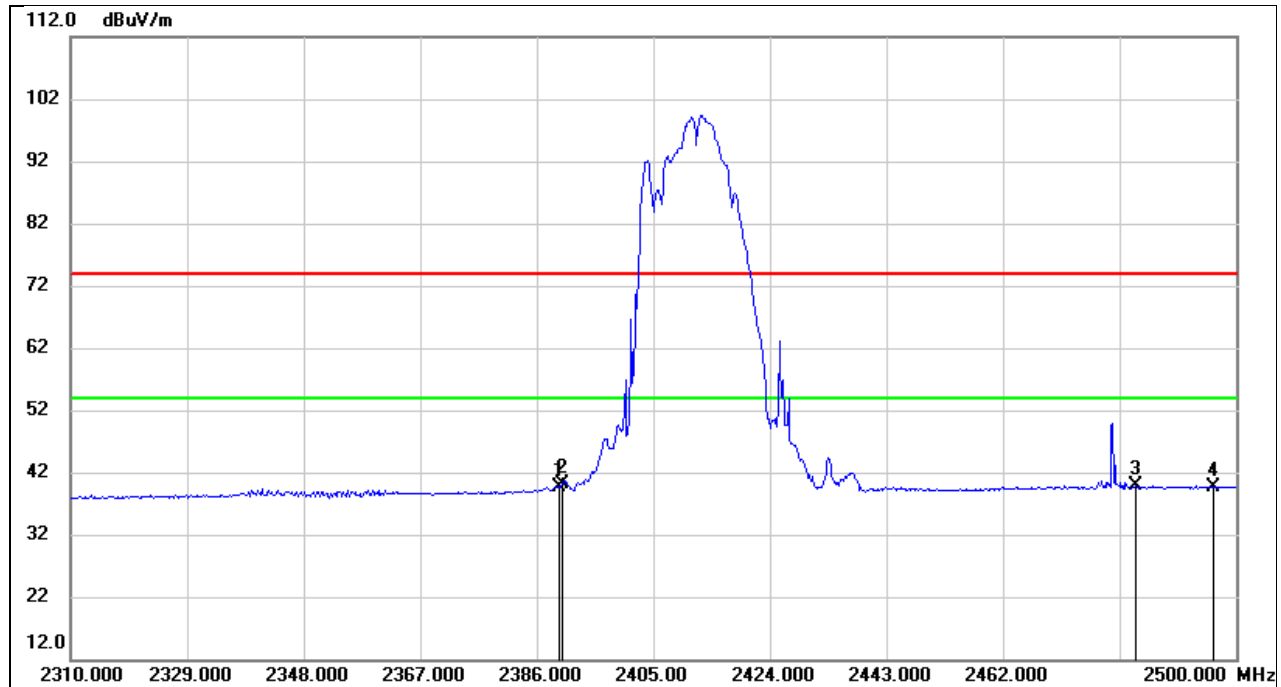
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2386.380	12.74	31.98	44.72	54.00	-9.28	AVG
2	2390.000	15.49	31.99	47.48	54.00	-6.52	AVG
3	2480.240	19.97	32.33	52.30	54.00	-1.70	AVG
4	2483.500	9.27	32.35	41.62	54.00	-12.38	AVG

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Vertical- Bandedge	Test Voltage:	DC 24V



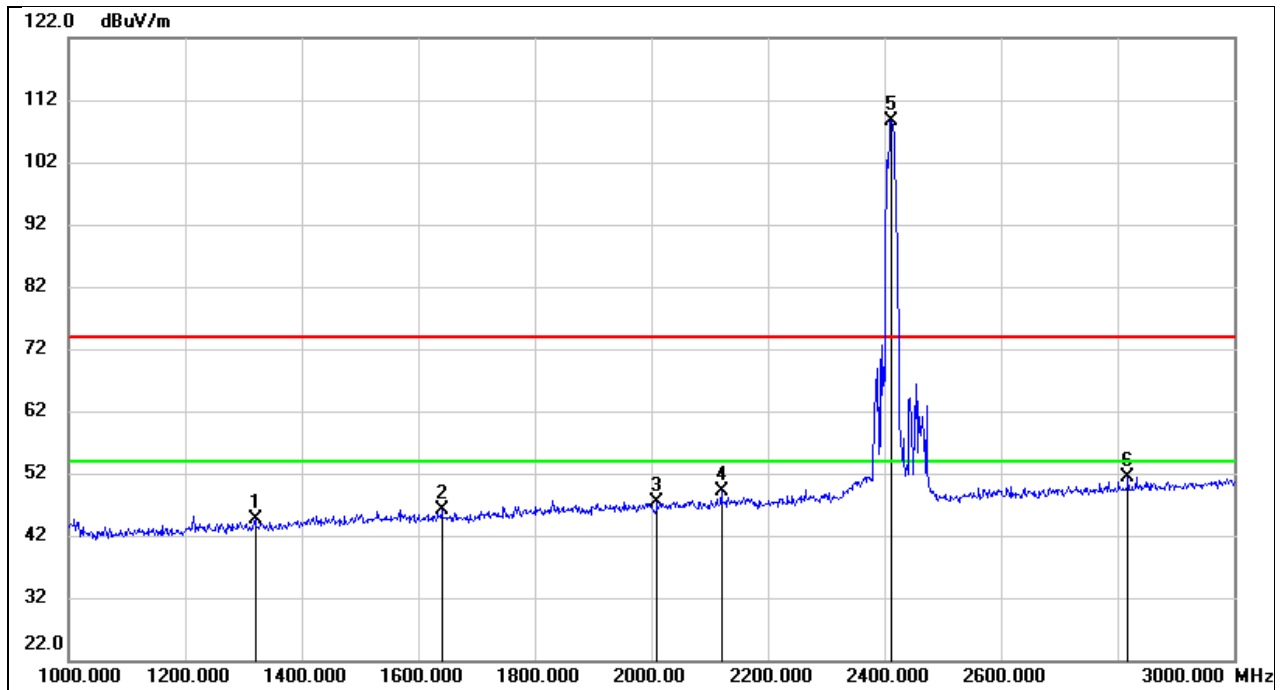
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.610	30.59	31.98	62.57	74.00	-11.43	peak
2	2390.000	20.75	31.99	52.74	74.00	-21.26	peak
3	2483.500	19.79	32.35	52.14	74.00	-21.86	peak
4	2496.390	21.25	32.40	53.65	74.00	-20.35	peak

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Vertical- Bandedge	Test Voltage:	DC 24V



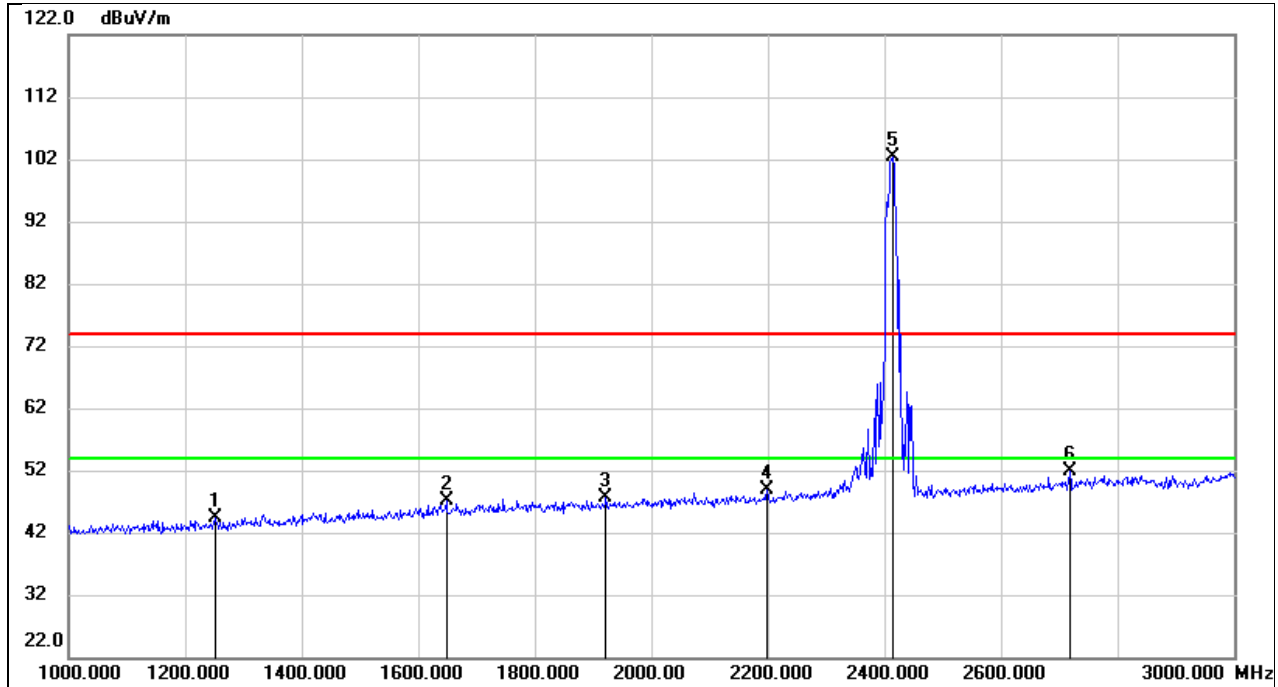
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2389.610	7.71	31.98	39.69	54.00	-14.31	AVG
2	2390.000	8.08	31.99	40.07	54.00	-13.93	AVG
3	2483.500	7.43	32.35	39.78	54.00	-14.22	AVG
4	2496.390	7.33	32.40	39.73	54.00	-14.27	AVG

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Horizontal	Test Voltage:	DC 24V



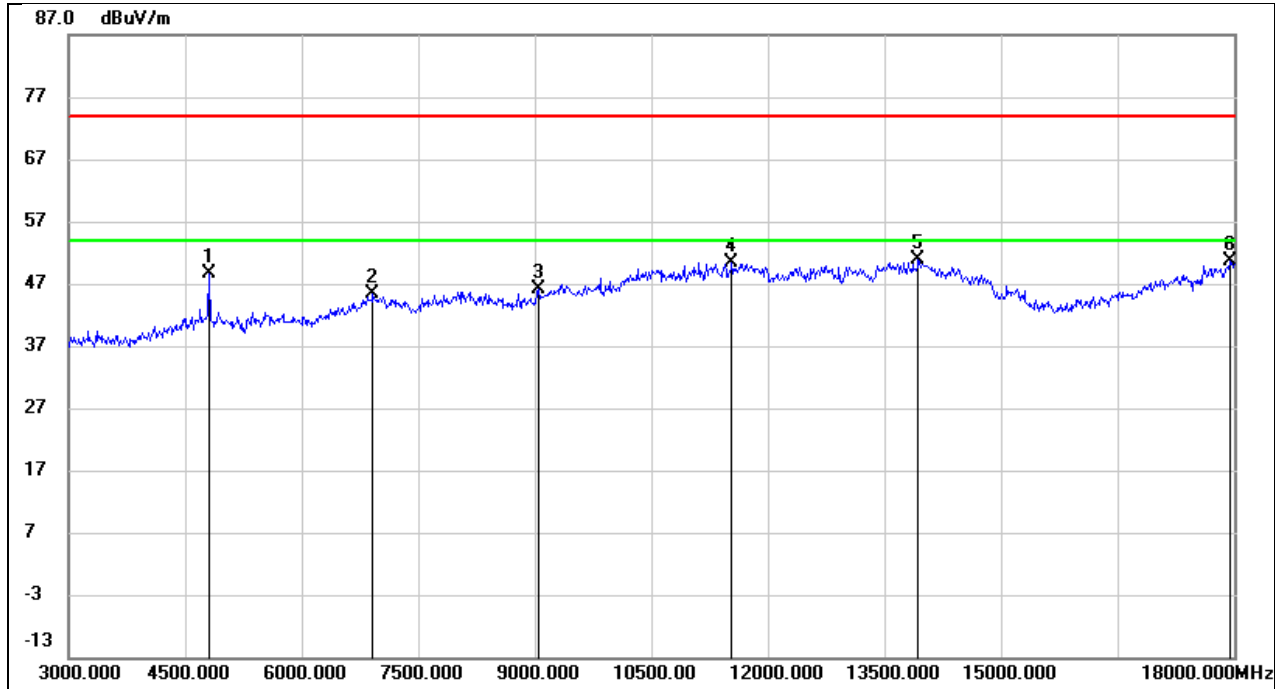
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1320.000	16.21	28.45	44.66	74.00	-29.34	peak
2	1640.000	16.48	29.65	46.13	74.00	-27.87	peak
3	2010.000	16.46	30.88	47.34	74.00	-26.66	peak
4	2120.000	18.25	30.99	49.24	74.00	-24.76	peak
5	2412.000	76.44	32.09	108.53	/	/	Fundamental
6	2818.000	17.95	33.45	51.40	74.00	-22.60	peak

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Vertical	Test Voltage:	DC 24V



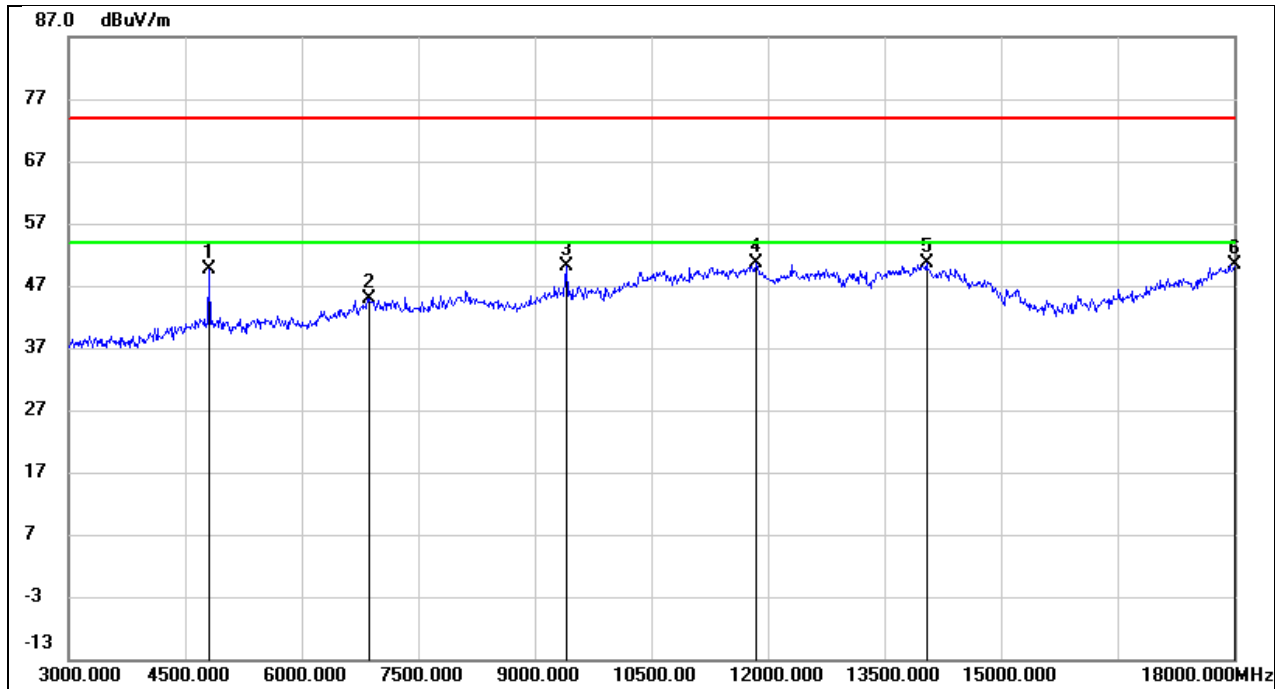
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1252.000	16.12	28.15	44.27	74.00	-29.73	peak
2	1648.000	17.41	29.68	47.09	74.00	-26.91	peak
3	1922.000	16.93	30.61	47.54	74.00	-26.46	peak
4	2198.000	17.79	31.05	48.84	74.00	-25.16	peak
5	2414.000	70.36	32.09	102.45	/	/	Fundamental
6	2718.000	18.73	33.13	51.86	74.00	-22.14	peak

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Horizontal	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	48.34	0.19	48.53	74.00	-25.47	peak
2	6915.000	39.63	5.73	45.36	74.00	-28.64	peak
3	9045.000	36.59	9.44	46.03	74.00	-27.97	peak
4	11535.000	33.47	16.93	50.40	74.00	-23.60	peak
5	13935.000	27.18	23.81	50.99	74.00	-23.01	peak
6	17955.000	22.86	27.69	50.55	74.00	-23.45	peak

Test Mode:	Lora 2.4G+802.11b + LTE Band5 5M	Frequency(MHz):	2404+2412 + 826.5
Polarity:	Vertical	Test Voltage:	DC 24V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4800.000	49.45	0.19	49.64	74.00	-24.36	peak
2	6870.000	39.23	5.58	44.81	74.00	-29.19	peak
3	9405.000	39.25	10.78	50.03	74.00	-23.97	peak
4	11850.000	32.66	17.88	50.54	74.00	-23.46	peak
5	14040.000	26.87	23.83	50.70	74.00	-23.30	peak
6	18000.000	22.48	27.98	50.46	74.00	-23.54	peak

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

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

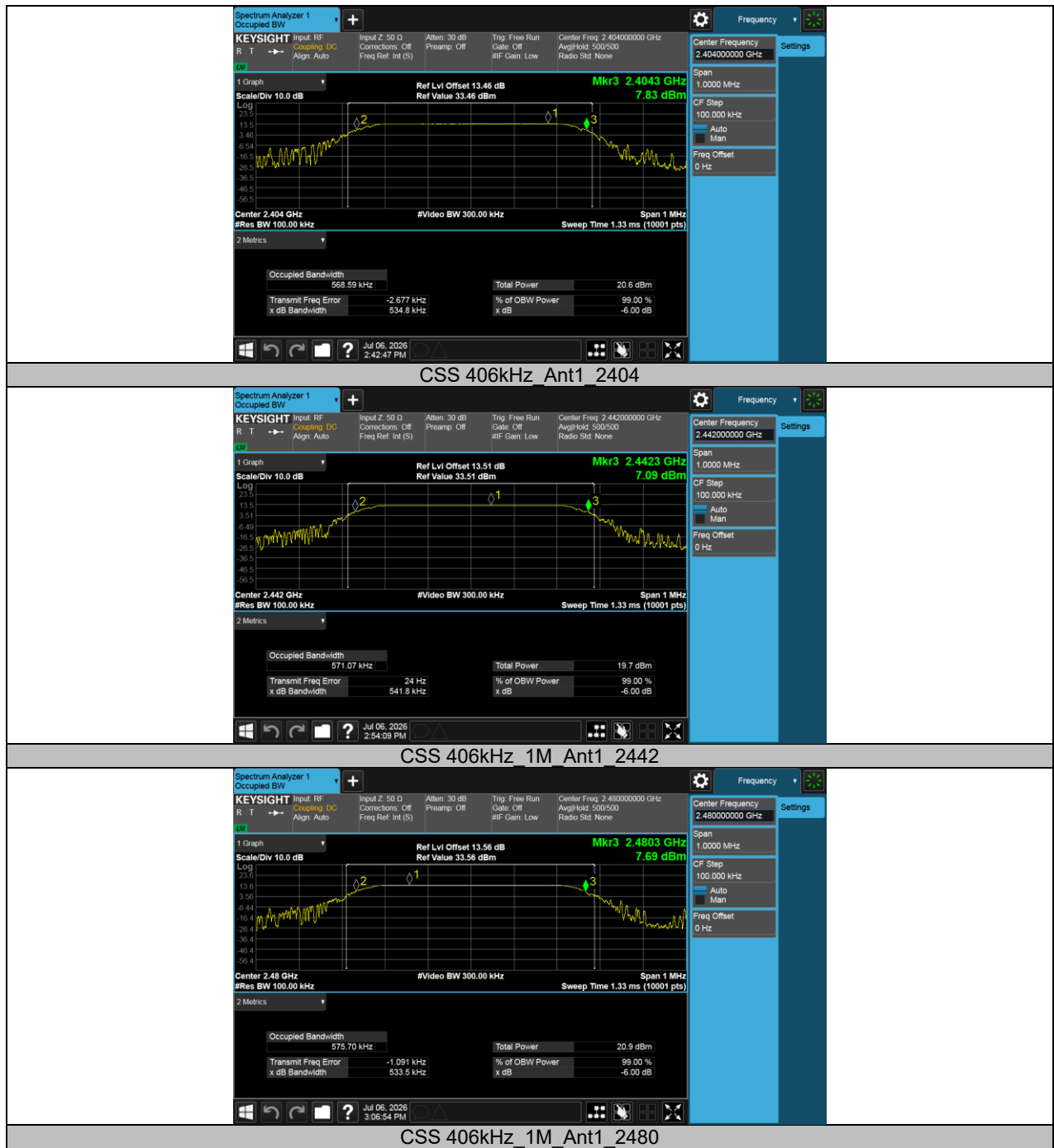
10. TEST DATA

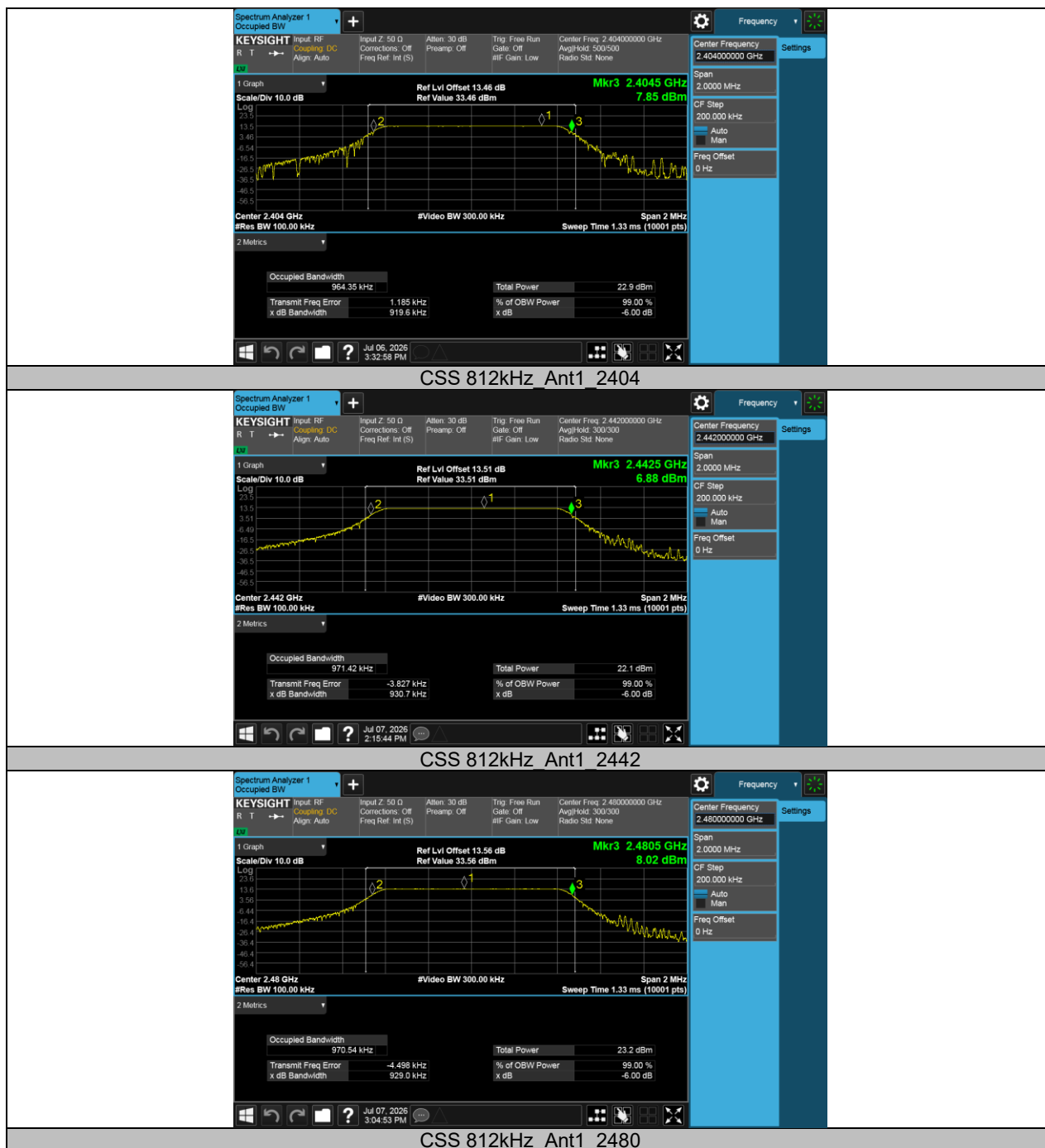
10.1. APPENDIX A: DTS BANDWIDTH

10.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
CSS 406kHz	Ant1	2404	0.535	≥ 0.5	PASS
		2442	0.542	≥ 0.5	PASS
		2480	0.533	≥ 0.5	PASS
CSS 812kHz	Ant1	2404	0.920	≥ 0.5	PASS
		2442	0.931	≥ 0.5	PASS
		2480	0.929	≥ 0.5	PASS

10.1.2. Test Graphs



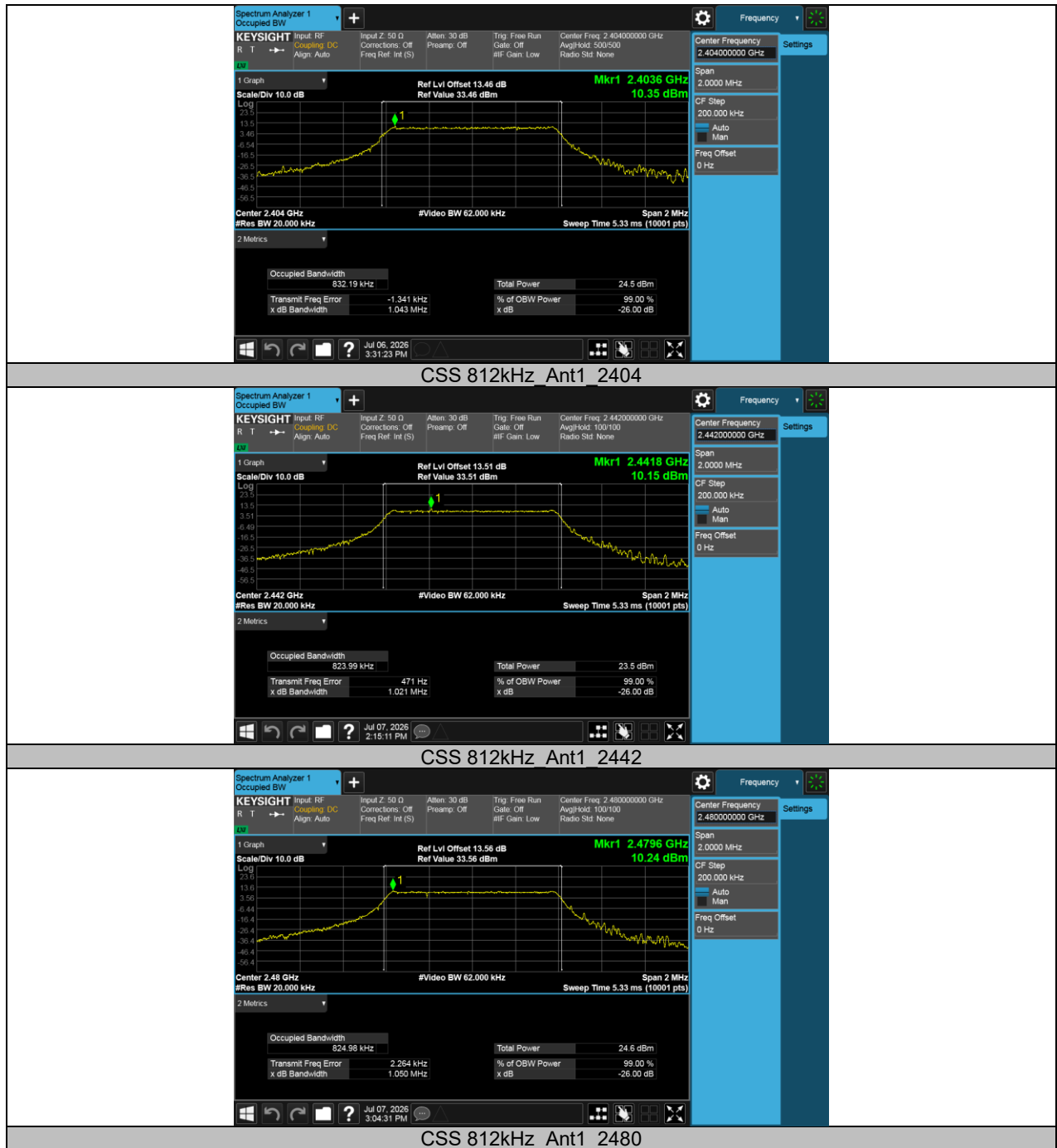


10.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH**10.2.1. ssTest Result**

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	Verdict
CSS 406kHz	Ant1	2404	0.413	PASS
		2442	0.413	PASS
		2480	0.413	PASS
CSS 812kHz	Ant1	2404	0.832	PASS
		2442	0.824	PASS
		2480	0.825	PASS

10.2.2. Test Graphs





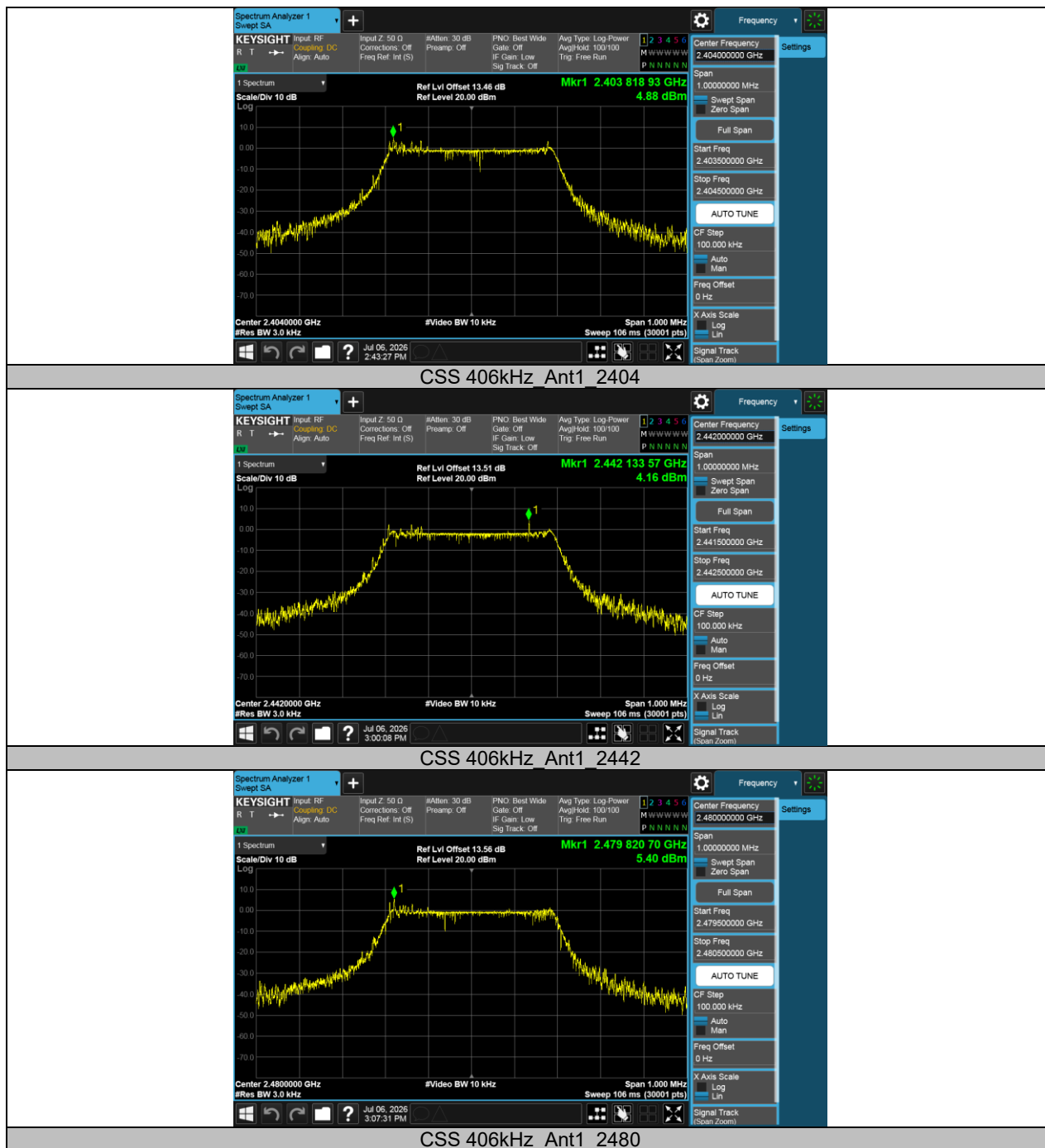
10.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER**10.3.1. Test Result**

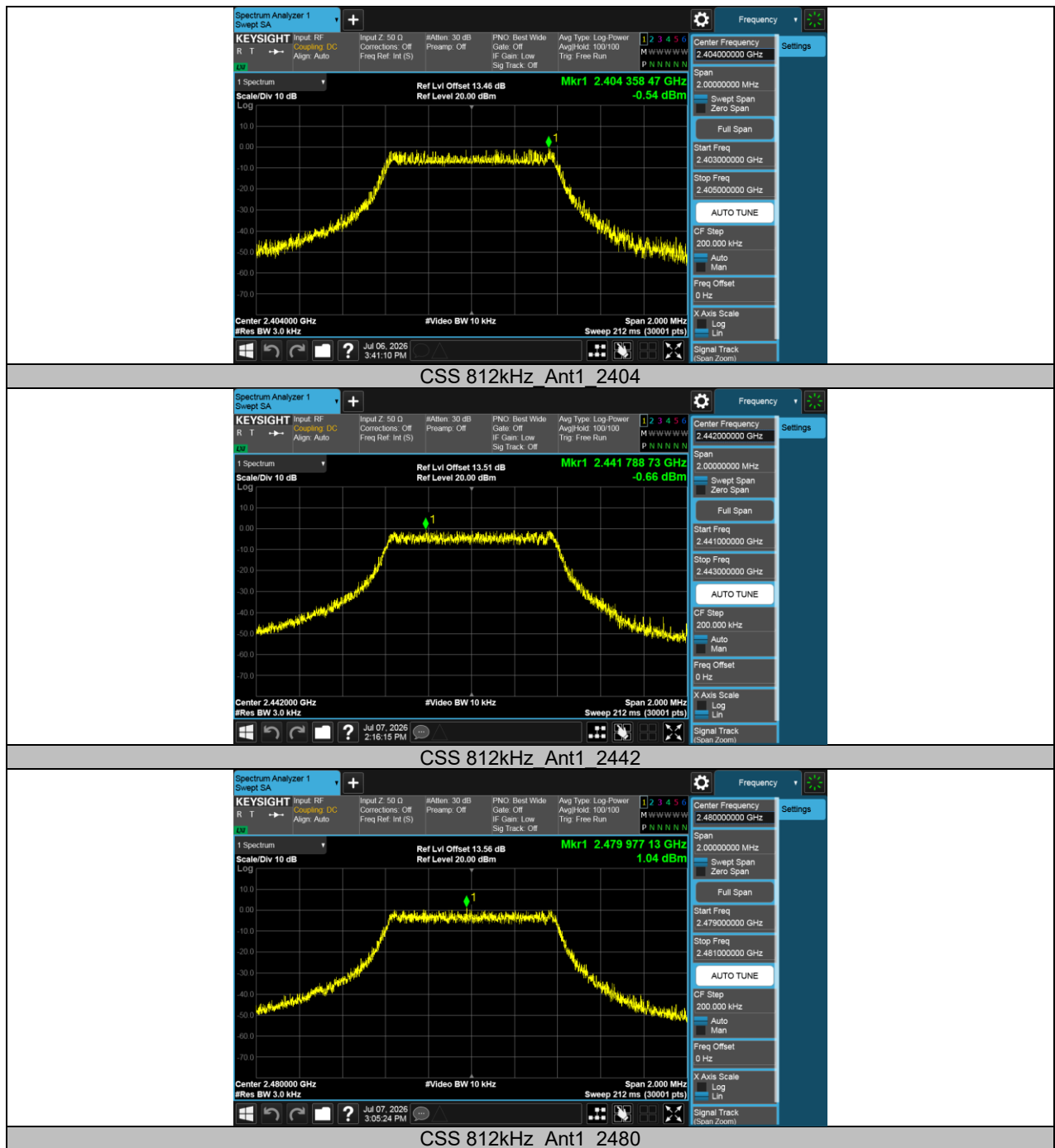
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
CSS 406kHz	Ant1	2404	14.05	≤30	PASS
		2442	13.07	≤30	PASS
		2480	14.21	≤30	PASS
CSS 812kHz	Ant1	2404	13.82	≤30	PASS
		2442	12.98	≤30	PASS
		2480	14.09	≤30	PASS

10.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY**10.4.1. Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
CSS 406kHz	Ant1	2404	4.88	≤8.00	PASS
		2442	4.16	≤8.00	PASS
		2480	5.4	≤8.00	PASS
CSS 812kHz	Ant1	2404	-0.54	≤8.00	PASS
		2442	-0.66	≤8.00	PASS
		2480	1.04	≤8.00	PASS

10.4.2. Test Graphs

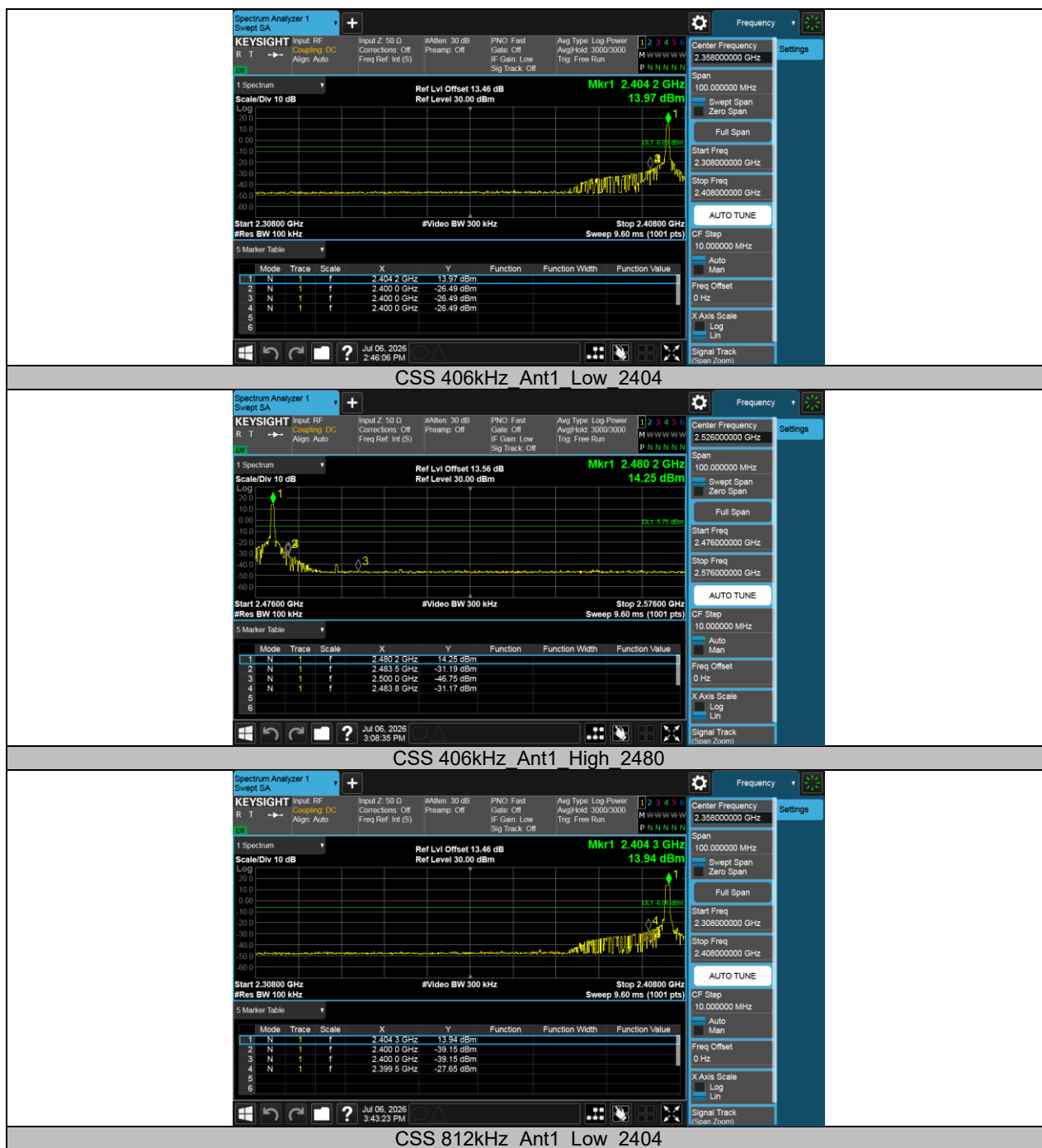


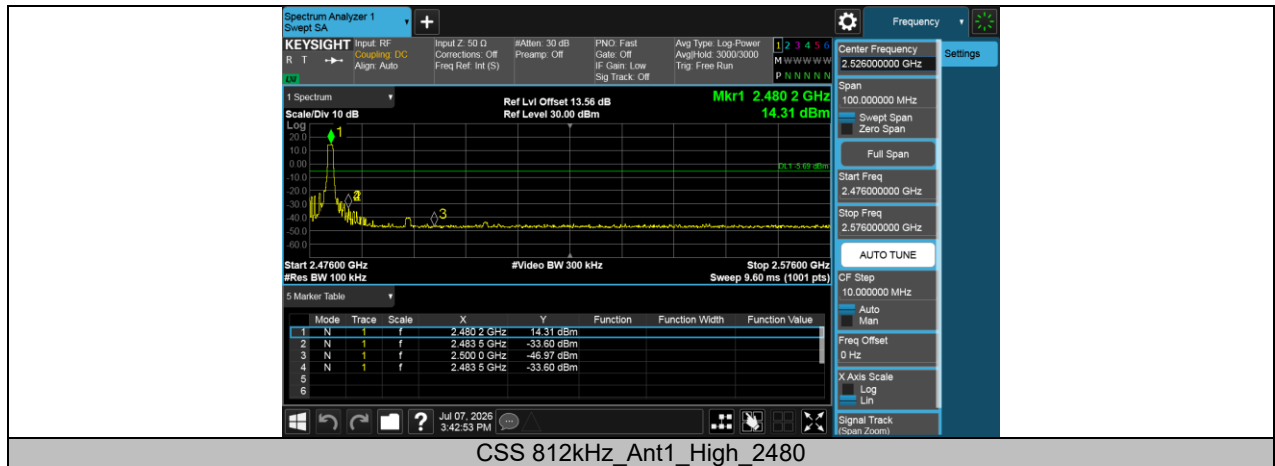


10.5. APPENDIX E: BAND EDGE MEASUREMENTS**10.5.1. Test Result**

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
CSS 406kHz	Ant1	Low	2404	13.97	-26.49	≤-6.03	PASS
		High	2480	14.25	-31.17	≤-5.75	PASS
CSS 812kHz	Ant1	Low	2404	13.94	-27.65	≤-6.06	PASS
		High	2480	14.31	-33.60	≤-5.69	PASS

10.5.2. Test Graphs





10.6. APPENDIX F: CONDUCTED SPURIOUS EMISSION**10.6.1. Test Result**

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
406K	2404	Ant1	-53	-20	Pass
406K	2442	Ant1	-51.99	-20	Pass
406K	2480	Ant1	-53.18	-20	Pass
812K	2404	Ant1	-52.01	-20	Pass
812K	2442	Ant1	-51.32	-20	Pass
812K	2480	Ant1	-52.13	-20	Pass

Note: Max Value (dBc)= Max Value (Unwanted transmission except fundamental signal) - Reference Value (Mark 1)

10.6.2. Test Graphs









10.7. APPENDIX G: DUTY CYCLE**10.7.1. 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)
CSS 406kHz	9.58	44.66	0.2145	21.45	6.69	0.10	1
CSS 812kHz	11.8	50.32	0.2345	23.45	6.30	0.08	1

Note:

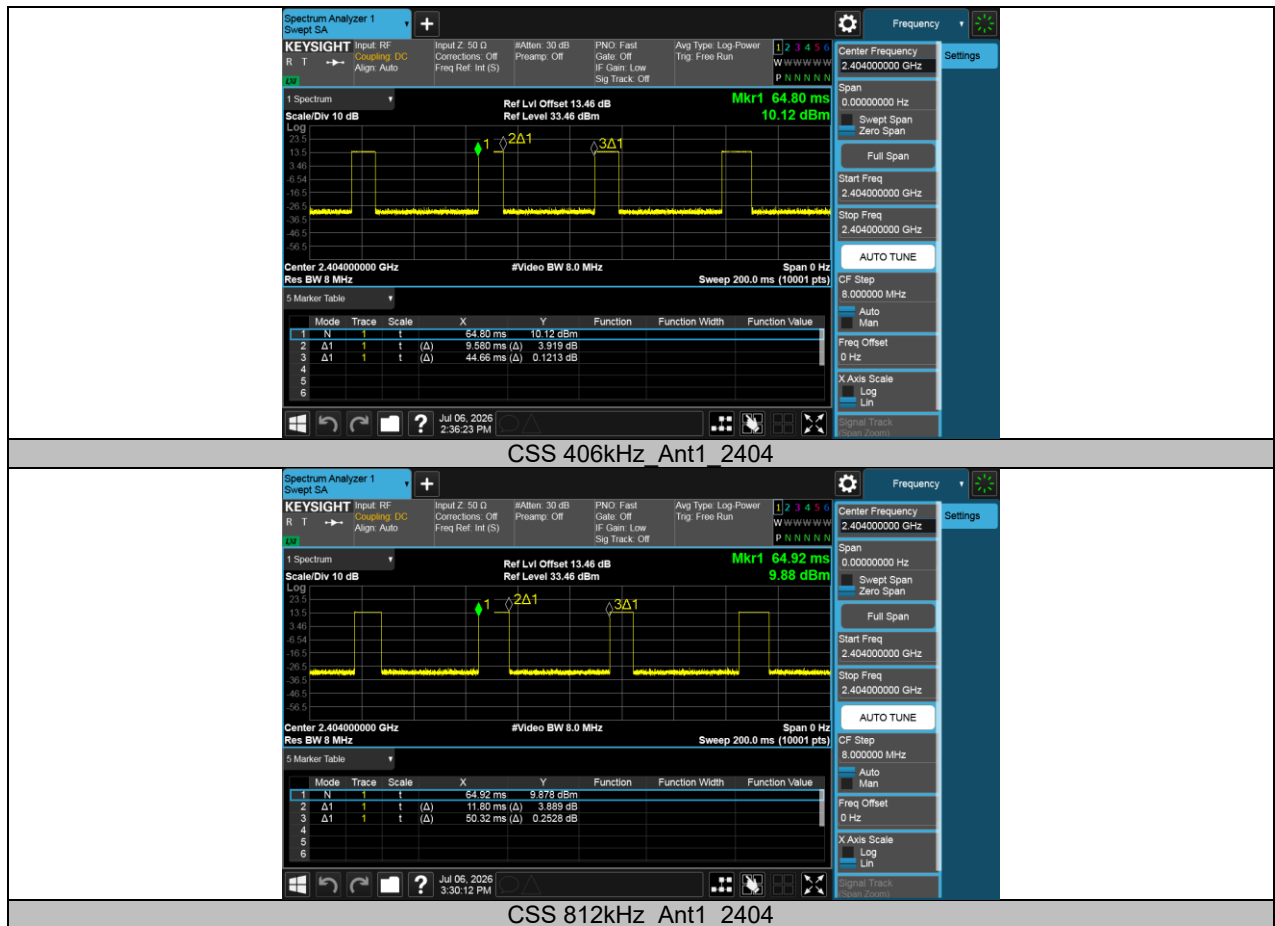
Duty Cycle Correction Factor= $10\log(1/x)$.

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.

10.7.2. Test Graphs



END OF REPORT