

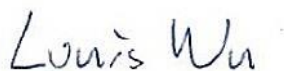


FCC RADIO TEST REPORT

FCC ID : SWX-USLGGH
Equipment : SuperLink Gateway HA
Brand Name : UBIQUITI
Model Name : USL-G2-Gateway-HA
Applicant : Ubiquiti Inc.
685 Third Avenue, New York, New York 10017, USA
Manufacturer : Ubiquiti Inc.
685 Third Avenue, New York, New York 10017, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Aug. 19, 2025 and testing was performed from Sep. 09, 2025 to Oct. 29, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR581203D	01	Initial issue of report	Jul. 01, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Danny Lee

Report Producer: Shiori Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE, Bluetooth-LE, LoRa, and Thread.
Antenna Type Thread: Monopole Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4.0

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

Specification of Accessory		
Battery	Brand Name	Mic-power
	Model Name	MT24J01

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

The test location is accredited based on TAF code 1190 and 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW1190 and TW3786

Note:

1. The test site complies with ANSI C63.4 2014 requirement.
2. The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory (TAF Code: 3786).



1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC Part 15 Subpart C §15.247
- ♦ ANSI C63.10-2020 + Cor.1-2023

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	11	2405	19	2445
	12	2410	20	2450
	13	2415	21	2455
	14	2420	22	2460
	15	2425	23	2465
	16	2430	24	2470
	17	2435	25	2475
	18	2440	26	2480

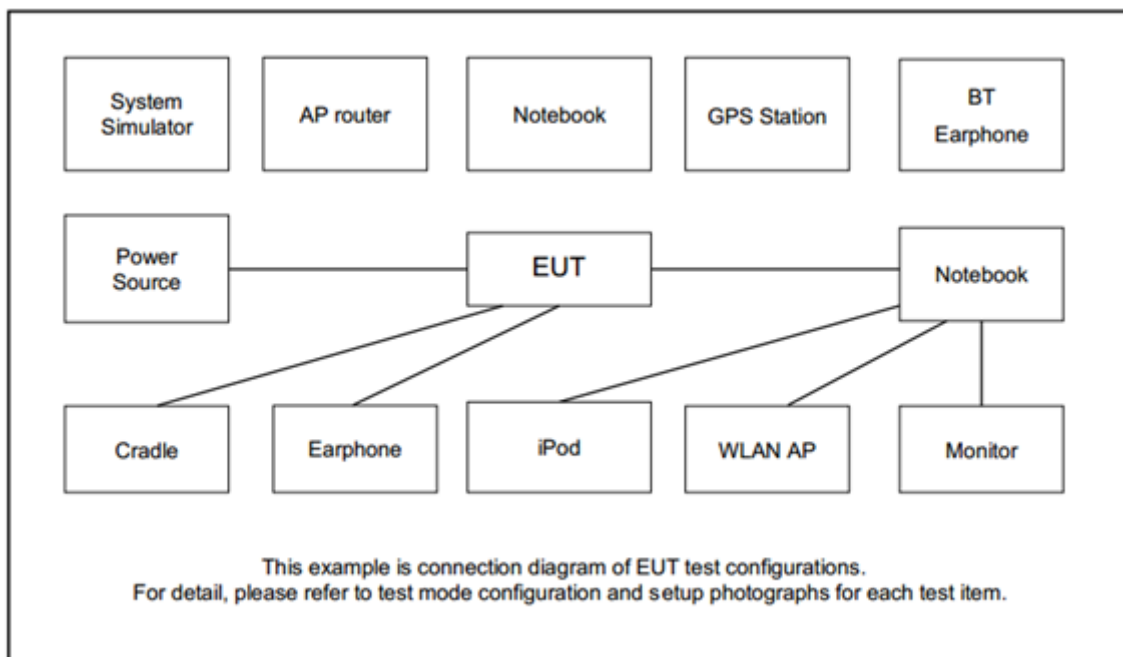
2.2 Test Mode

- The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Thread / GFSK
	Mode 1: Thread Tx CH11_2405 MHz
	Mode 2: Thread Tx CH17_2435 MHz
	Mode 3: Thread Tx CH25_2475 MHz
	Mode 4: Thread Tx CH26_2480 MHz
AC Conducted Emission	Mode 1: Thread TX + LAN Link + AC Adapter
Remark: - For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. - The detailed Radiated test modes are shown in Appendix C.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	AC Adapter	UBIQUITI	E005-1I050100VU	FCC DoC	N/A	Shielded, 1.5m
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility "Tera Term v4.95" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

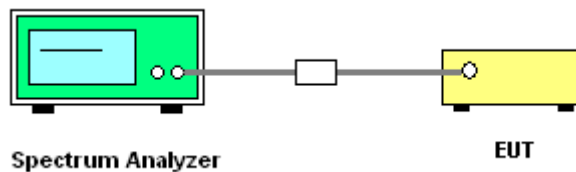
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW $\geq 3 * RBW$. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

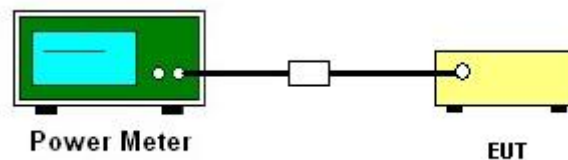
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.2 PKPM1.
2. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
3. The RF output of EUT is connected to the power meter by RF cable and attenuator.
4. The path loss is compensated to the results for each measurement.
5. Set the maximum power setting and enable the EUT to transmit continuously.
6. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

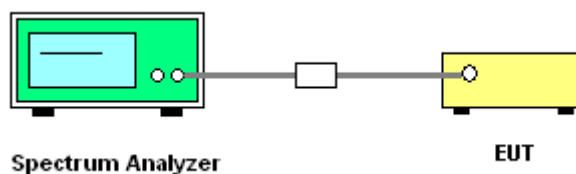
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = No faster than coupled (auto) time, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

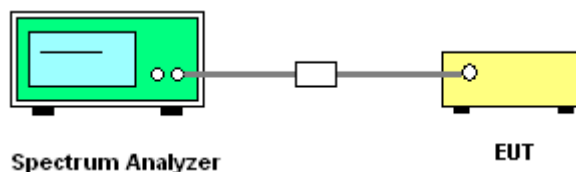
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

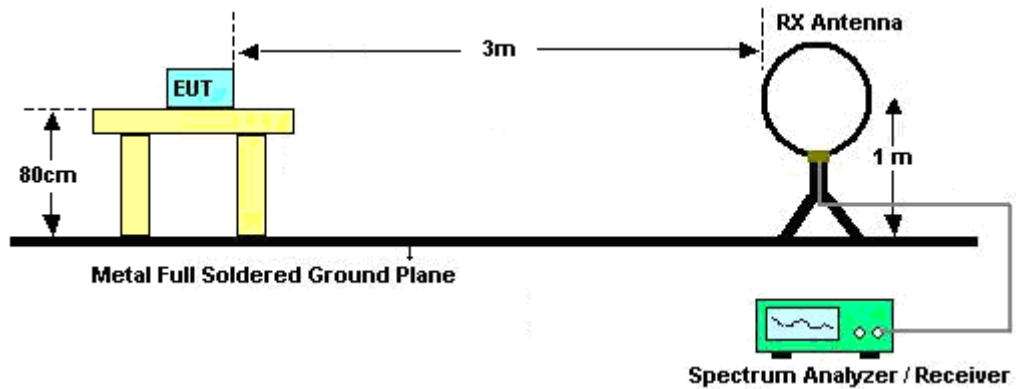
3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is 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.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

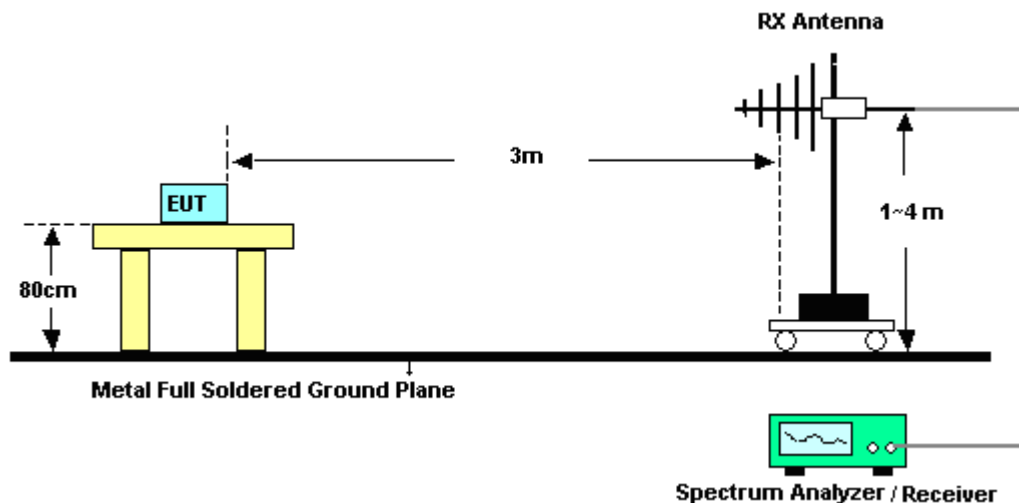
8. Use the following spectrum analyzer settings:
- (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
- For average measurement:
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

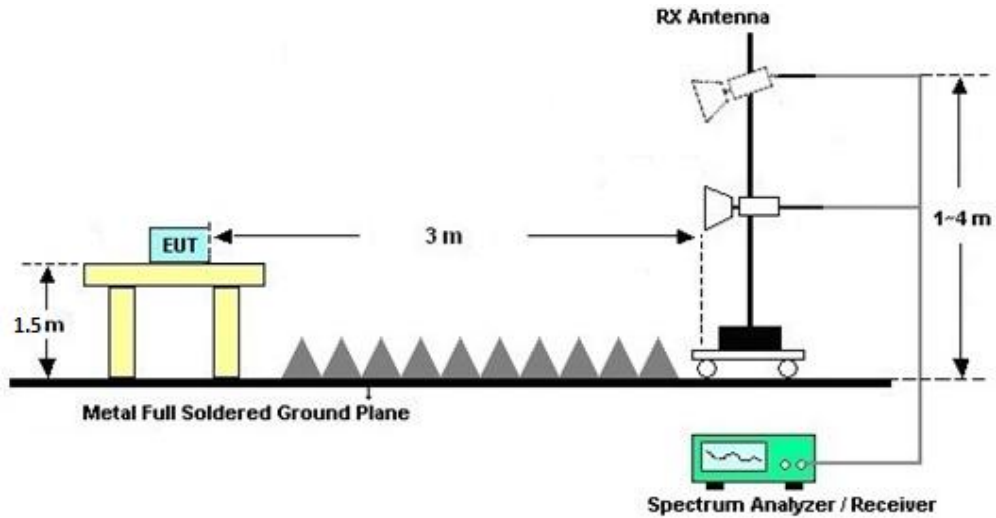
For radiated test below 30MHz



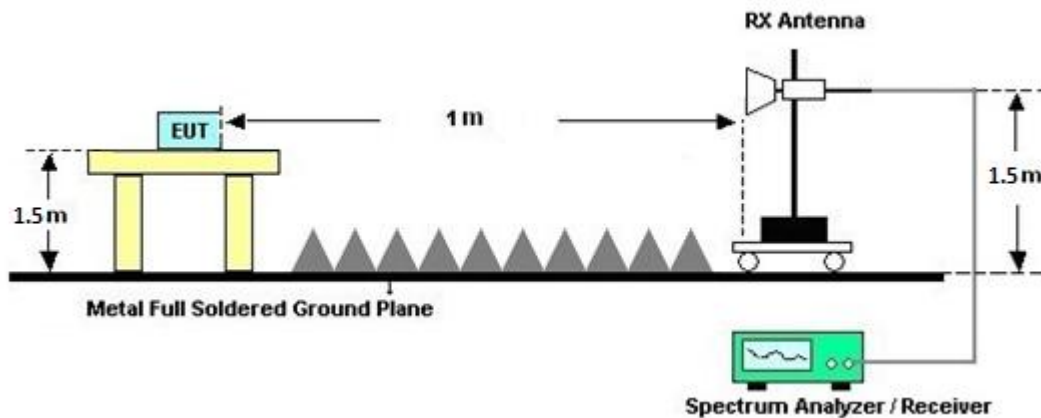
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

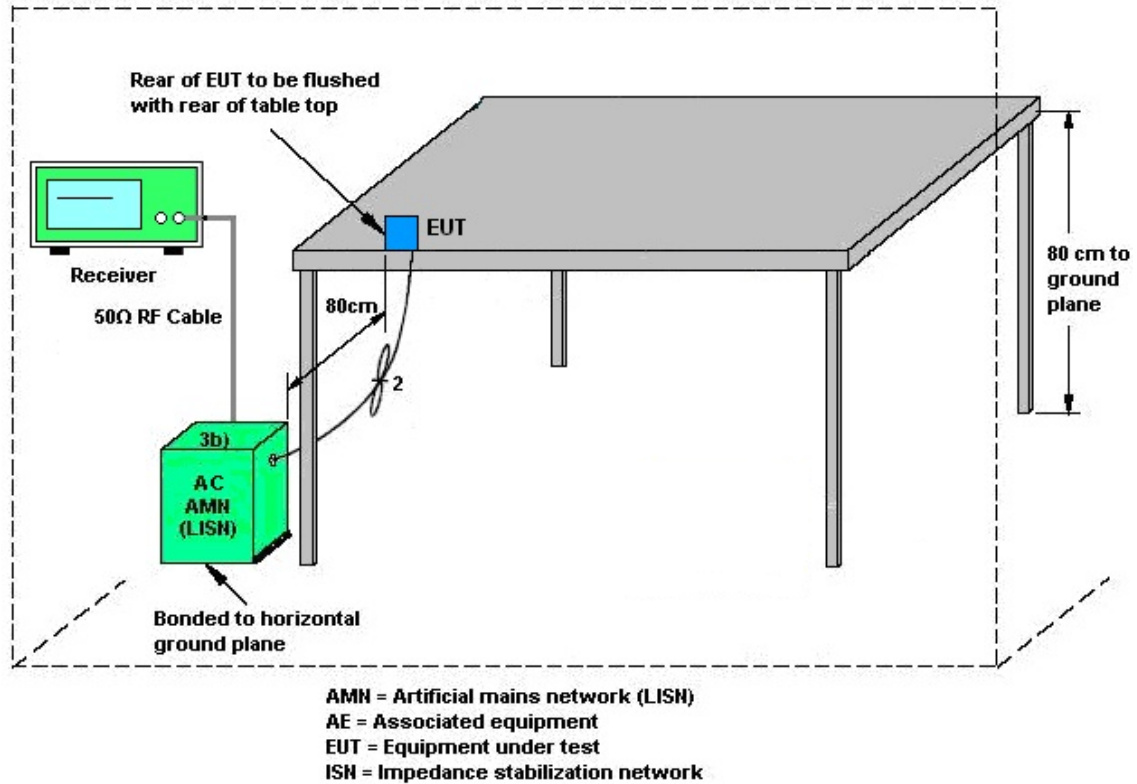
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.7.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Oct. 03, 2025~ Oct. 21, 2025	Apr. 20, 2026	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Oct. 03, 2025~ Oct. 21, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Oct. 03, 2025~ Oct. 21, 2025	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 18, 2025	Oct. 03, 2025~ Oct. 21, 2025	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Sep. 30, 2025	Oct. 03, 2025~ Oct. 21, 2025	Sep. 29, 2026	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Oct. 03, 2025~ Oct. 21, 2025	Mar. 27, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Oct. 03, 2025~ Oct. 21, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Oct. 03, 2025~ Oct. 21, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Oct. 03, 2025~ Oct. 21, 2025	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Oct. 03, 2025~ Oct. 21, 2025	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Oct. 03, 2025~ Oct. 21, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Oct. 03, 2025~ Oct. 21, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Oct. 03, 2025~ Oct. 21, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Oct. 03, 2025~ Oct. 21, 2025	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Oct. 03, 2025~ Oct. 21, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Oct. 03, 2025~ Oct. 21, 2025	Feb. 23, 2026	Radiation (03CH07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Sep. 09, 2025~ Oct. 29, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Sep. 09, 2025~ Oct. 29, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Sep. 09, 2025~ Oct. 29, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instrument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Sep. 09, 2025~ Oct. 29, 2025	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Sep. 09, 2025~ Oct. 29, 2025	N/A	Conducted (TH05-HY)

**FCC RADIO TEST REPORT****Report No.: FR581203D**

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Oct. 02, 2025	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	N/A	Dec. 10, 2024	Oct. 02, 2025	Dec. 09, 2025	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Oct. 02, 2025	Jun. 25, 2026	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	N/A	Jul. 25, 2025	Oct. 02, 2025	Jul. 24, 2026	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Oct. 02, 2025	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 29, 2025	Oct. 02, 2025	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 15, 2024	Oct. 02, 2025	Oct. 14, 2025	Conduction (CO05-HY)



5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
--	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
--	--------

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jay Chen	Temperature:	21~25	°C
Test Date:	2025/9/9~2025/10/29	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
Thread	250k	1	11	2405	2.211	1.095	0.50	Pass
Thread	250k	1	17	2435	2.217	1.092	0.50	Pass
Thread	250k	1	25	2475	2.221	1.099	0.50	Pass
Thread	250k	1	26	2480	2.224	1.110	0.50	Pass

TEST RESULTS DATA
Peak Power Table

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Thread	250k	1	11	2405	19.07	30.00	4.00	23.07	36.00	Pass
Thread	250k	1	17	2435	19.35	30.00	4.00	23.35	36.00	Pass
Thread	250k	1	25	2475	19.25	30.00	4.00	23.25	36.00	Pass
Thread	250k	1	26	2480	10.58	30.00	4.00	14.58	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
Thread	250k	1	11	2405	17.47	30.00	4.00	21.47	36.00	Pass
Thread	250k	1	17	2435	17.53	30.00	4.00	21.53	36.00	Pass
Thread	250k	1	25	2475	17.45	30.00	4.00	21.45	36.00	Pass
Thread	250k	1	26	2480	8.52	30.00	4.00	12.52	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate (bps)	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
Thread	250k	1	11	2405	17.42	2.12	4.00	8.00	Pass
Thread	250k	1	17	2435	17.35	2.76	4.00	8.00	Pass
Thread	250k	1	25	2475	17.48	2.84	4.00	8.00	Pass
Thread	250k	1	26	2480	8.85	-5.77	4.00	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

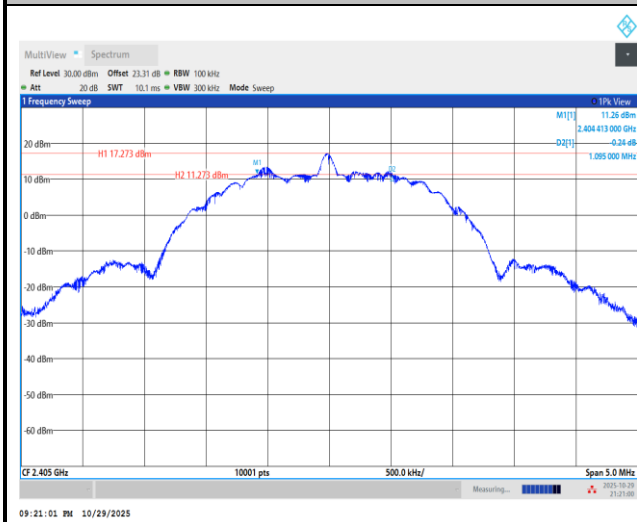


Number of TX = 1, Ant. 1 (Measured)

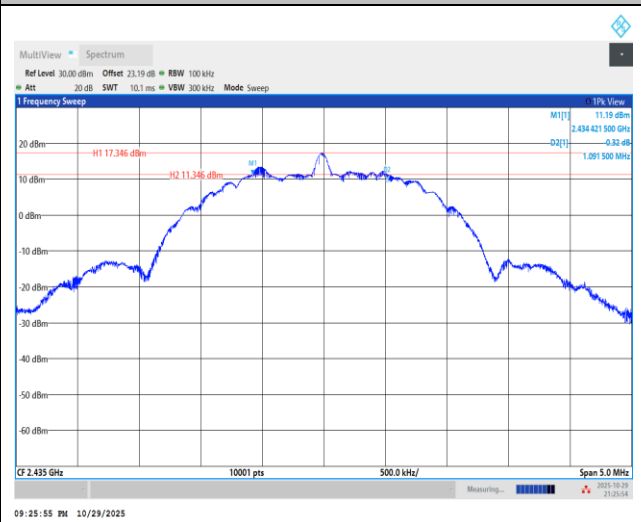
6dB Bandwidth

<Thread>

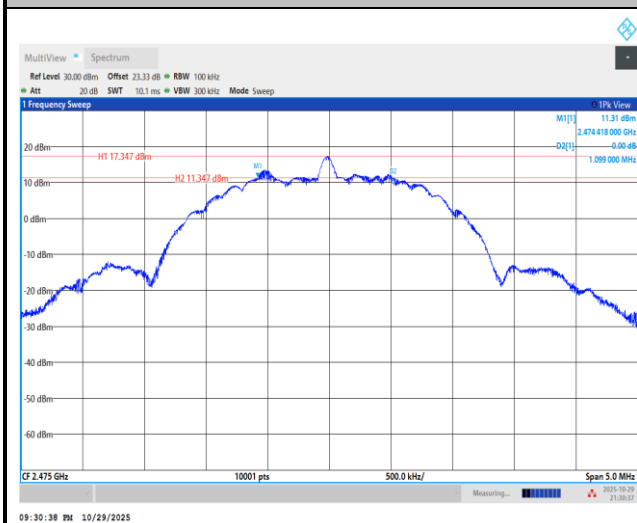
6 dB Bandwidth Plot on Channel 11



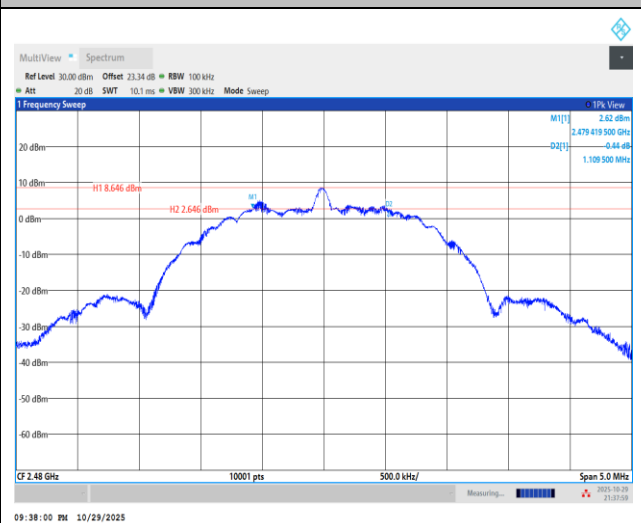
6 dB Bandwidth Plot on Channel 17



6 dB Bandwidth Plot on Channel 25

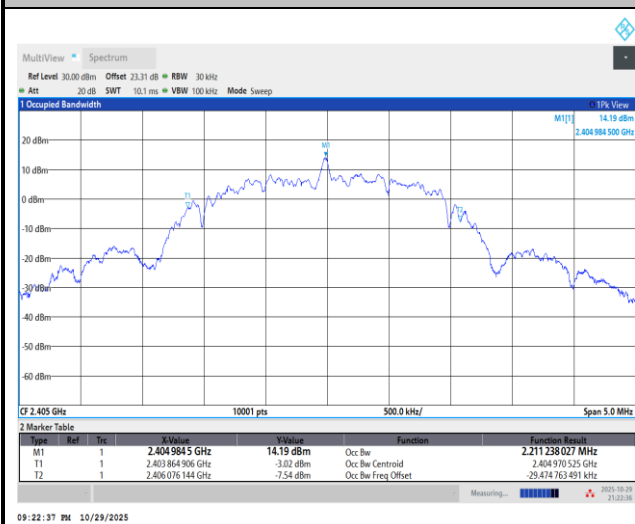
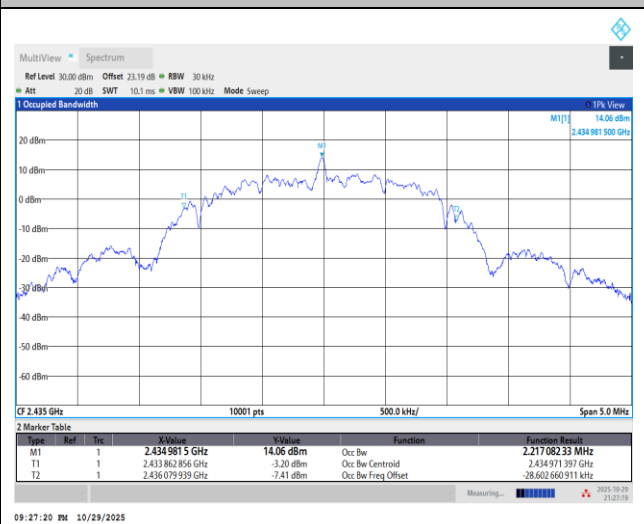
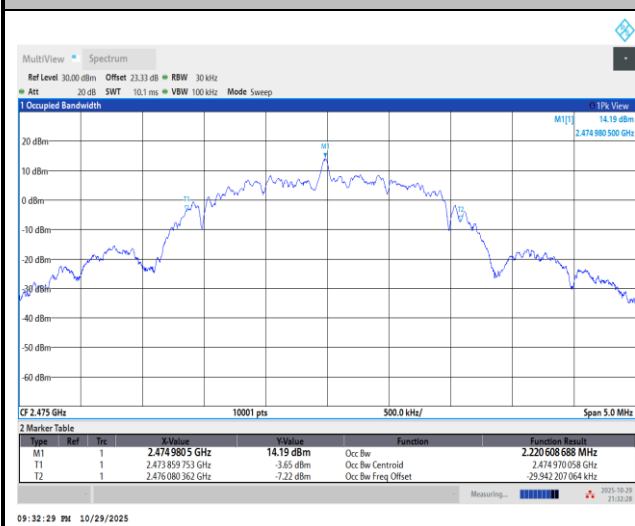
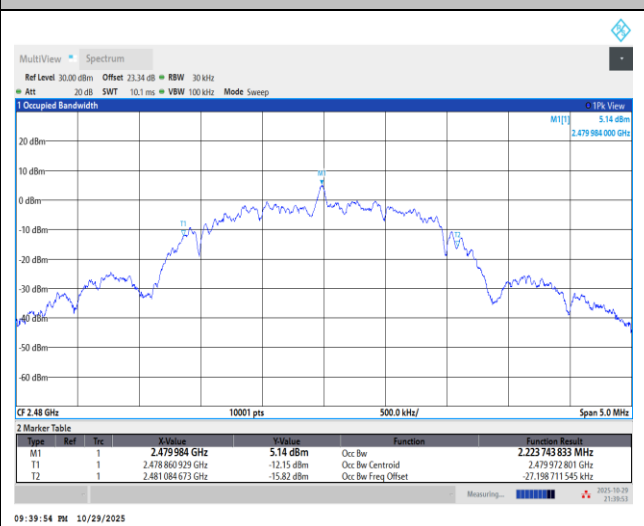


6 dB Bandwidth Plot on Channel 26



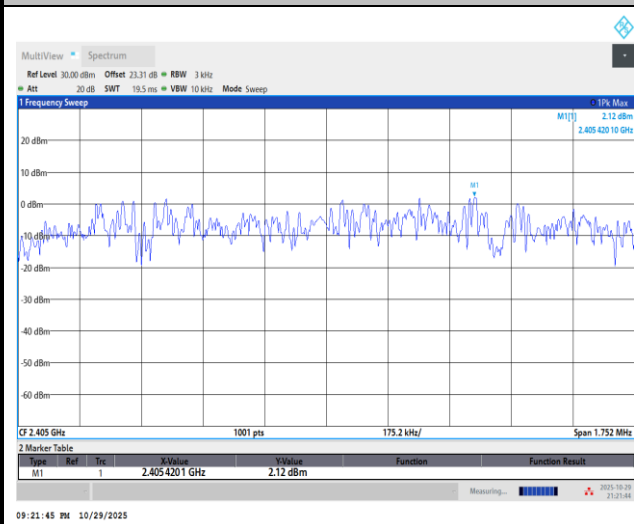
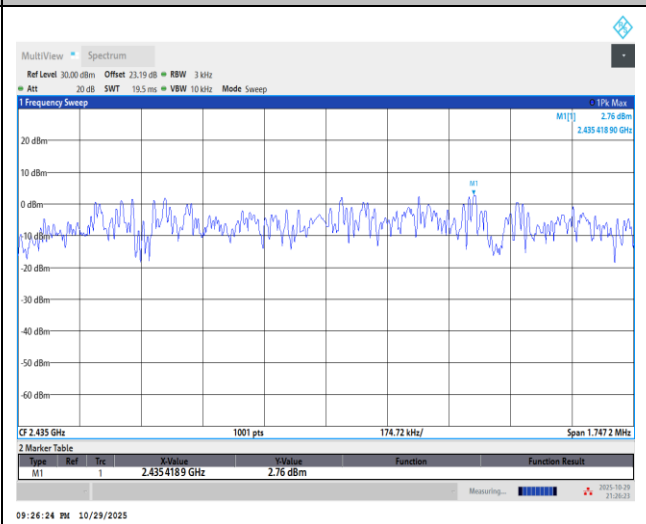
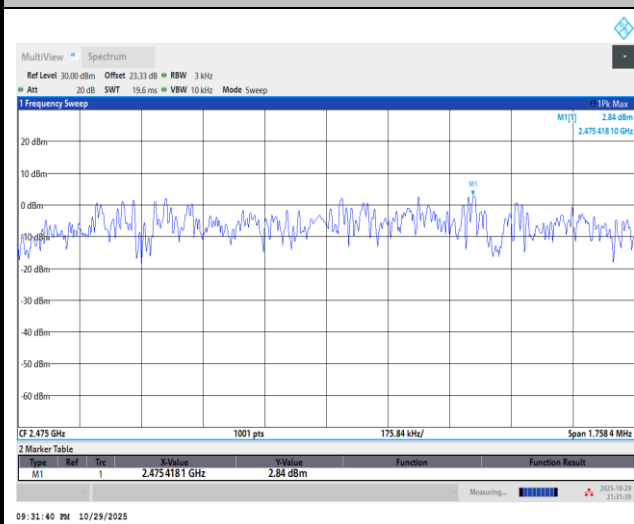
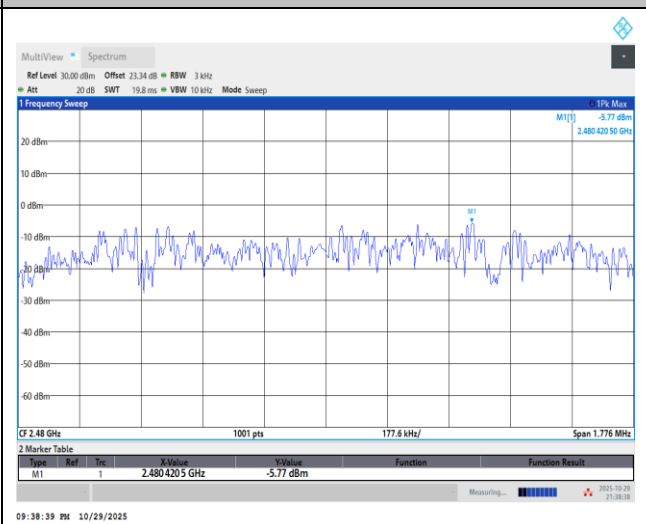
**99% Occupied Bandwidth**

<Thread>

99% Occupied Bandwidth Plot on Channel 11**99% Occupied Bandwidth Plot on Channel 17****99% Occupied Bandwidth Plot on Channel 25****99% Occupied Bandwidth Plot on Channel 26**

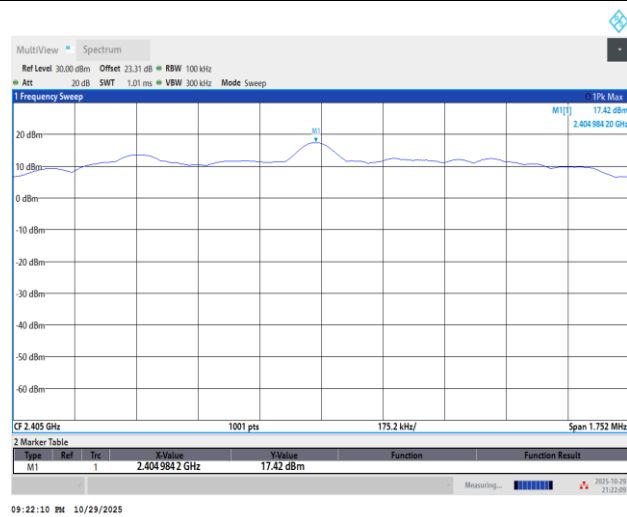
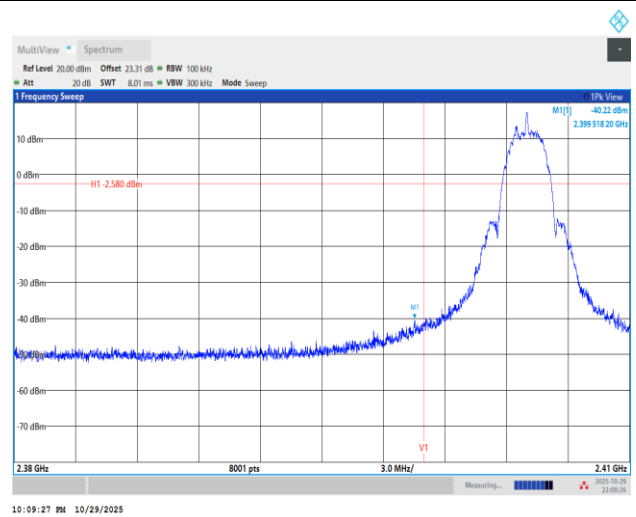
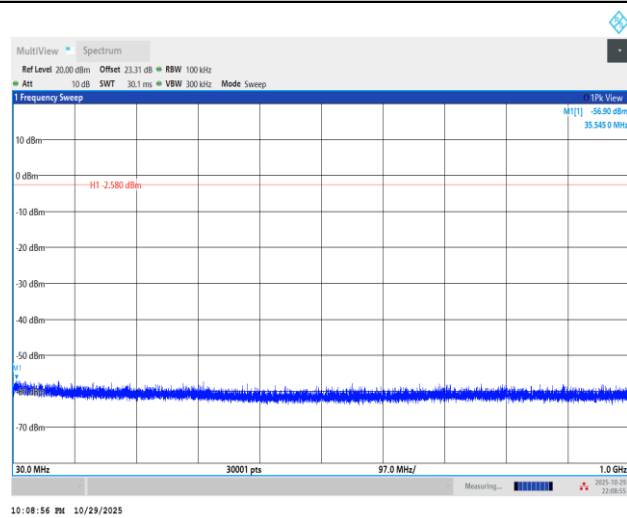
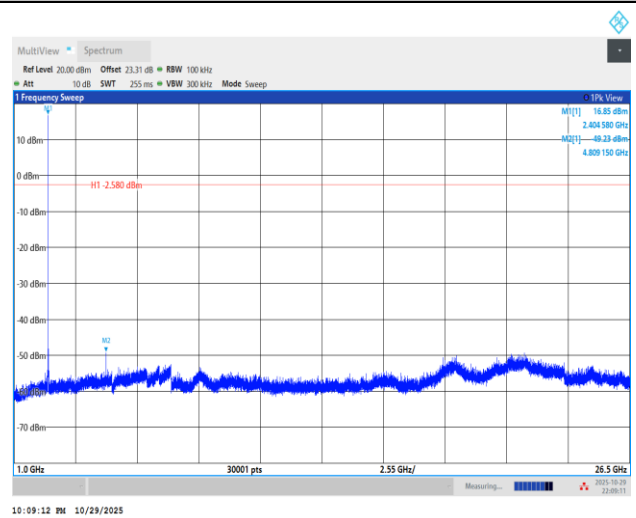
**Power Spectral Density (dBm/3kHz)**

<Thread>

Power Density (dBm/3kHz) Plot Channel 11**Power Density (dBm/3kHz) Plot Channel 17****Power Density (dBm/3kHz) Plot Channel 25****Power Density (dBm/3kHz) Plot Channel 26**

**Band Edge and Conducted Spurious Emission**

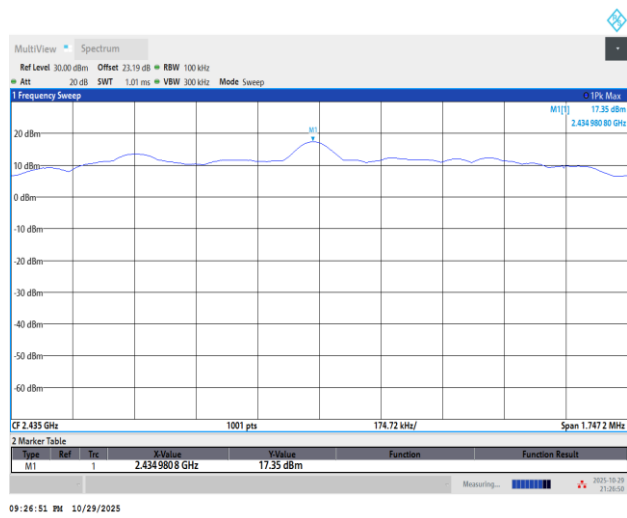
<Thread>

Channel 11**100kHz PSD reference Level Plot****Plot on Channel 11****Spurious Emission 30MHz~1GHz Plot****Spurious Emission 1GHz~26.5GHz Plot**

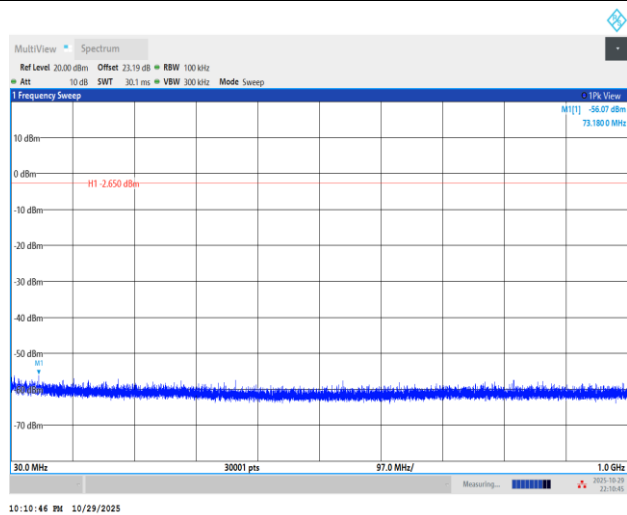


Channel 17

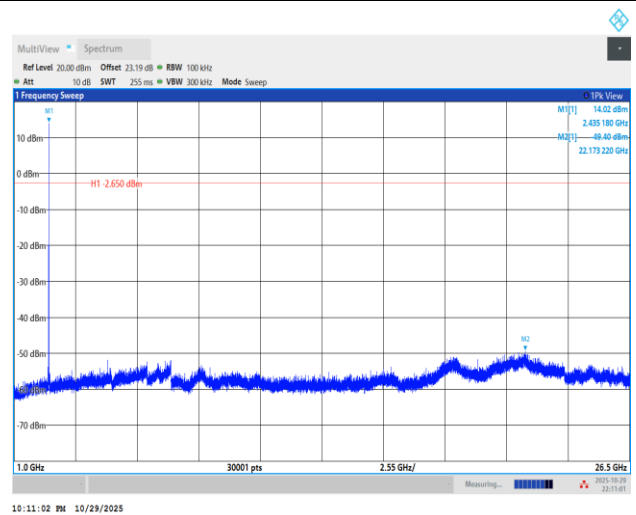
100kHz PSD reference Level Plot



Spurious Emission 30MHz~1GHz Plot



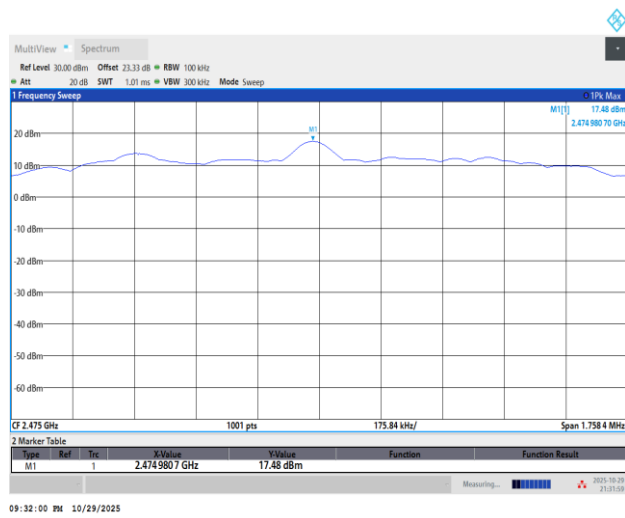
Spurious Emission 1GHz~26.5GHz Plot



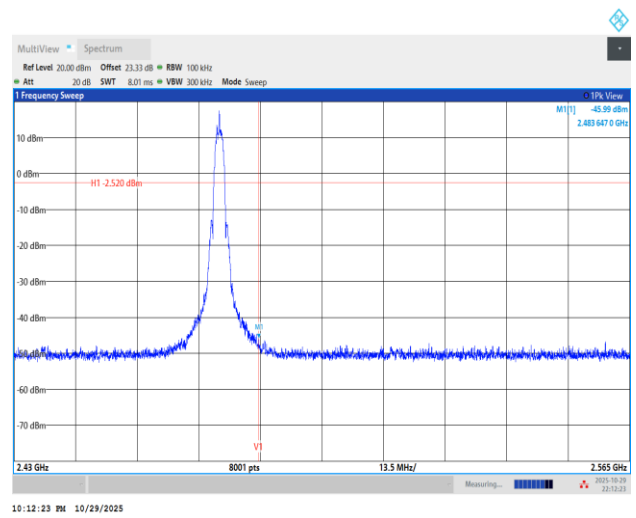


Channel 25

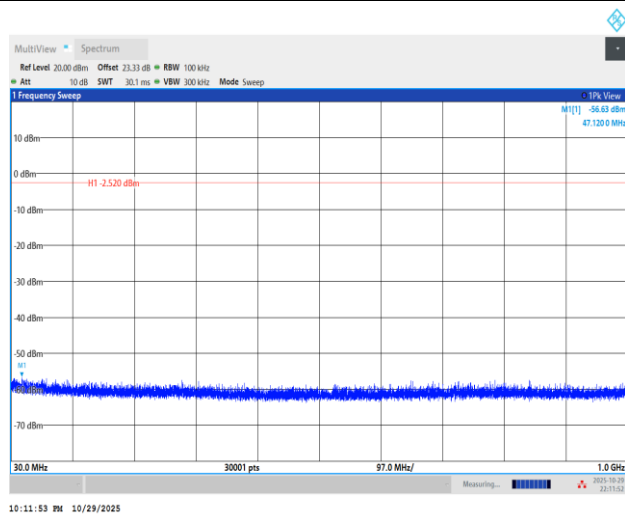
100kHz PSD reference Level Plot



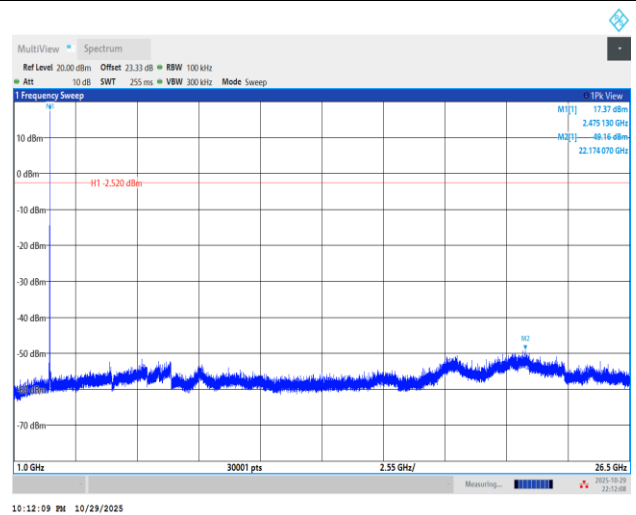
Plot on Channel 25



Spurious Emission 30MHz~1GHz Plot



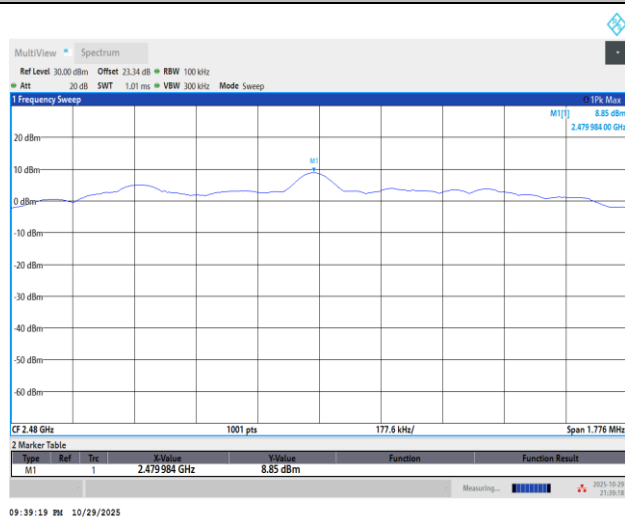
Spurious Emission 1GHz~26.5GHz Plot



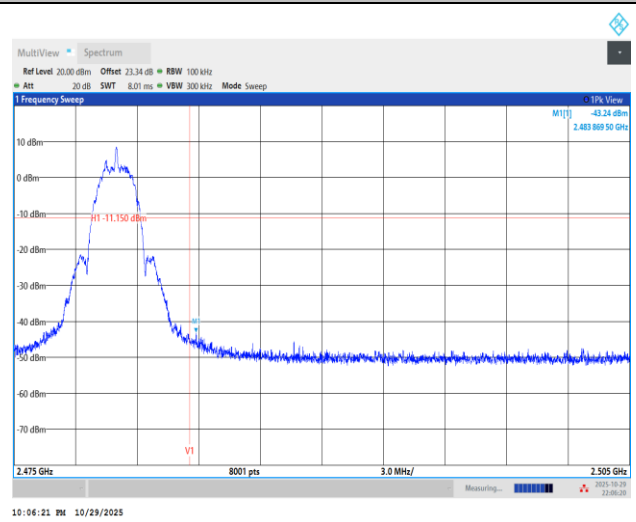


Channel 26

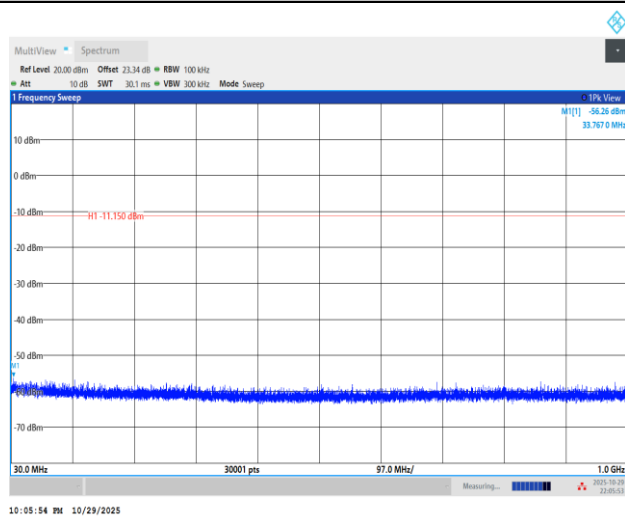
100kHz PSD reference Level Plot



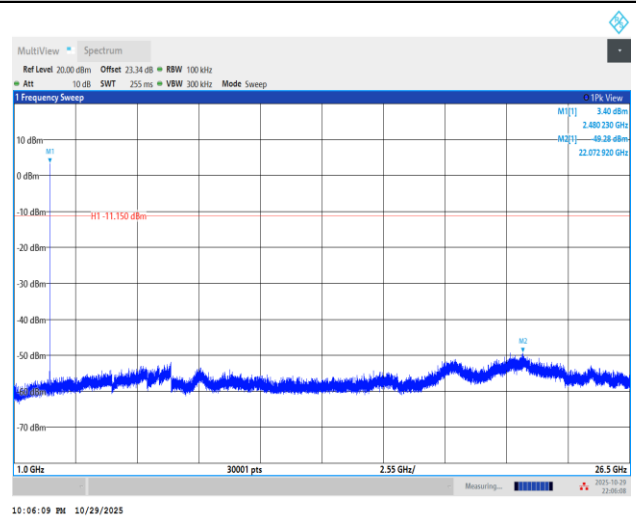
Plot on Channel 26



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot





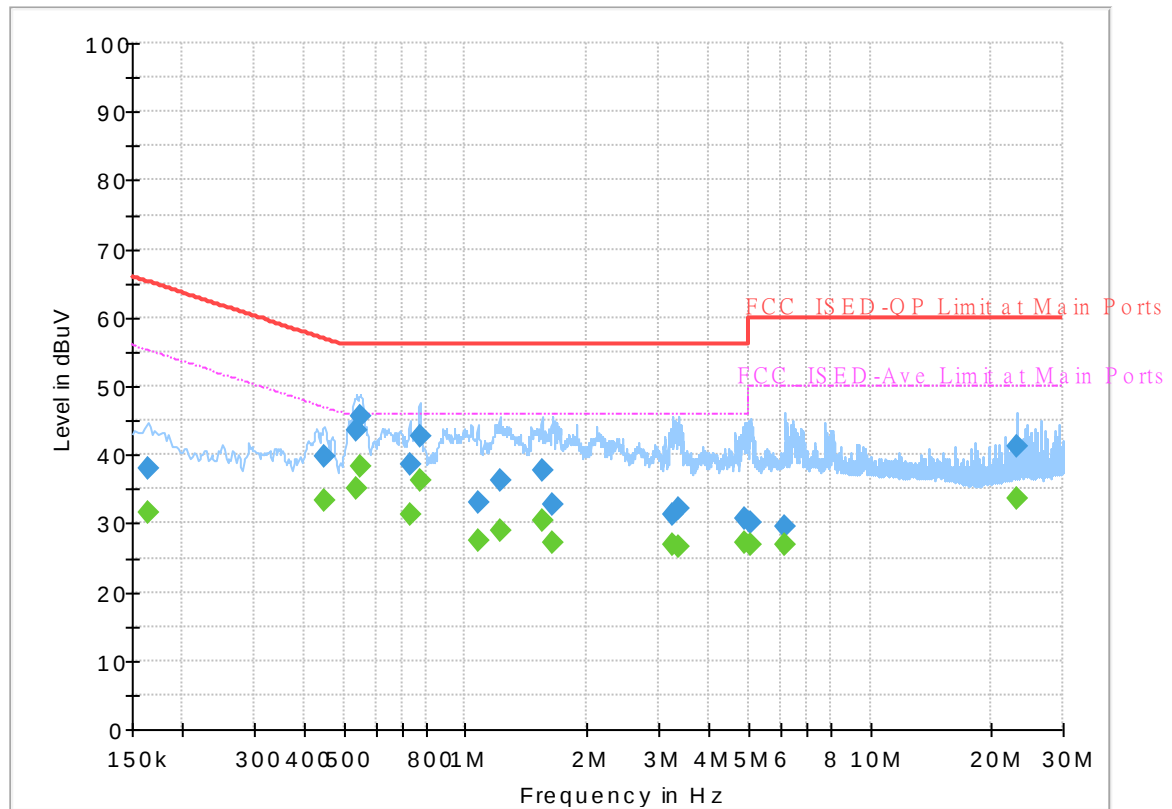
Appendix B. AC Conducted Emission Test Results

Test Engineer:	Brian Chen	Temperature:	23~26°C
		Relative Humidity:	45~55%

EUT Information

Report NO : 581203
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

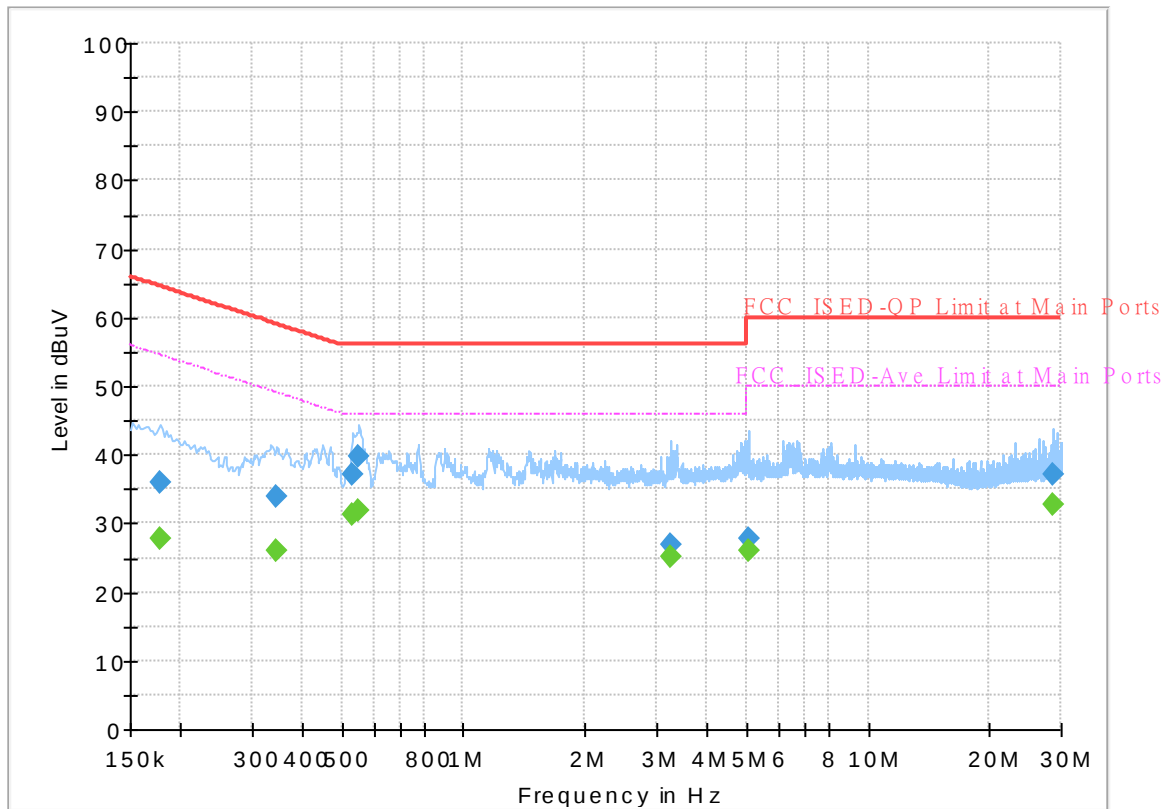
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	31.47	55.28	23.81	L1	OFF	19.8
0.163500	38.15	---	65.28	27.13	L1	OFF	19.8
0.449250	---	33.41	46.89	13.48	L1	OFF	19.8
0.449250	39.79	---	56.89	17.10	L1	OFF	19.8
0.537000	---	34.96	46.00	11.04	L1	OFF	19.8
0.537000	43.54	---	56.00	12.46	L1	OFF	19.8
0.550500	---	38.19	46.00	7.81	L1	OFF	19.8
0.550500	45.61	---	56.00	10.39	L1	OFF	19.8
0.728250	---	31.22	46.00	14.78	L1	OFF	19.9
0.728250	38.70	---	56.00	17.30	L1	OFF	19.9
0.771000	---	36.35	46.00	9.65	L1	OFF	19.9
0.771000	42.73	---	56.00	13.27	L1	OFF	19.9
1.072500	---	27.42	46.00	18.58	L1	OFF	19.9
1.072500	33.01	---	56.00	22.99	L1	OFF	19.9
1.216500	---	28.93	46.00	17.07	L1	OFF	19.9
1.216500	36.30	---	56.00	19.70	L1	OFF	19.9
1.542750	---	30.44	46.00	15.56	L1	OFF	19.9
1.542750	37.65	---	56.00	18.35	L1	OFF	19.9
1.635000	---	27.09	46.00	18.91	L1	OFF	19.9
1.635000	32.62	---	56.00	23.38	L1	OFF	19.9
3.266250	---	27.00	46.00	19.00	L1	OFF	20.0

3.266250	31.16	---	56.00	24.84	L1	OFF	20.0
3.356250	---	26.73	46.00	19.27	L1	OFF	20.0
3.356250	32.10	---	56.00	23.90	L1	OFF	20.0
4.899750	---	27.26	46.00	18.74	L1	OFF	20.1
4.899750	30.68	---	56.00	25.32	L1	OFF	20.1
5.097750	---	26.84	50.00	23.16	L1	OFF	20.1
5.097750	30.02	---	60.00	29.98	L1	OFF	20.1
6.186750	---	26.80	50.00	23.20	L1	OFF	20.2
6.186750	29.62	---	60.00	30.38	L1	OFF	20.2
23.127000	---	33.52	50.00	16.48	L1	OFF	20.6
23.127000	41.12	---	60.00	18.88	L1	OFF	20.6

EUT Information

Report NO : 581203
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	---	27.74	54.63	26.89	N	OFF	19.8
0.177000	36.00	---	64.63	28.63	N	OFF	19.8
0.345750	---	26.17	49.06	22.89	N	OFF	19.8
0.345750	33.88	---	59.06	25.18	N	OFF	19.8
0.532500	---	31.29	46.00	14.71	N	OFF	19.8
0.532500	37.14	---	56.00	18.86	N	OFF	19.8
0.552750	---	31.91	46.00	14.09	N	OFF	19.8
0.552750	39.69	---	56.00	16.31	N	OFF	19.8
3.264000	---	25.20	46.00	20.80	N	OFF	20.0
3.264000	26.82	---	56.00	29.18	N	OFF	20.0
5.066250	---	26.04	50.00	23.96	N	OFF	20.1
5.066250	27.69	---	60.00	32.31	N	OFF	20.1
28.686750	---	32.82	50.00	17.18	N	OFF	20.9
28.686750	37.04	---	60.00	22.96	N	OFF	20.9

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Stan Hsieh and Ken Wu	Temperature :	20.4~26.9°C
		Relative Humidity :	56.1~71.4%

Note symbol

-L	Low channel location
-R	High channel location

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Thread O-QPSK	11	2405	250 kbps	-	-
Mode 2	2400-2483.5	1	Thread O-QPSK	17	2435	250 kbps	-	-
Mode 3	2400-2483.5	1	Thread O-QPSK	25	2475	250 kbps	-	-
Mode 4	2400-2483.5	1	Thread O-QPSK	26	2480	250 kbps	-	-
Mode 5	2400-2483.5	1	Thread O-QPSK	11	2405	250 kbps	-	LF

C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Thread O-QPSK	11	2382.01	43.78	54.00	-10.22	H	Avg.	Pass	-	Band Edge
	Thread O-QPSK	11	4810.00	53.83	54.00	-0.17	H	Avg.	Pass	-	Harmonic
2	Thread O-QPSK	17	2499.16	45.07	54.00	-8.93	V	Avg.	Pass	-	Band Edge
	Thread O-QPSK	17	4870.00	50.84	54.00	-3.16	H	Avg.	Pass	-	Harmonic
3	Thread O-QPSK	25	2483.55	49.32	54.00	-4.68	H	Avg.	Pass	-	Band Edge
	Thread O-QPSK	25	4950.00	49.30	54.00	-4.70	H	Avg.	Pass	-	Harmonic
4	Thread O-QPSK	26	2483.52	53.44	54.00	-0.56	H	Avg.	Pass	-	Band Edge
	Thread O-QPSK	26	4960.00	43.10	54.00	-10.90	H	Avg.	Pass	-	Harmonic
5	Thread O-QPSK	11	32.91	33.91	40.00	-6.09	V	Peak	Pass	-	LF



Mode	1																																																																																																			
	Band Edge																																																																																																			
	2400-2483.5_Thread O-QPSK_CH11_2405MHz																																																																																																			
ANT	1																																																																																																			
Pol.	Horizontal						Fundamental																																																																																													
Peak	Level (dBuV/m) Date: 2025-10-21 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2368.52</td><td>54.52</td><td>74.00</td><td>-19.48</td><td>38.96</td><td>32.00</td><td>8.32</td><td>34.66</td><td>9.90</td><td>206</td><td>360</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2368.52	54.52	74.00	-19.48	38.96	32.00	8.32	34.66	9.90	206	360	Peak	Level (dBuV/m) Date: 2025-10-21 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2485.00</td><td>109.75</td><td>-----</td><td>-----</td><td>94.03</td><td>32.10</td><td>8.39</td><td>34.67</td><td>9.90</td><td>206</td><td>360</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2485.00	109.75	-----	-----	94.03	32.10	8.39	34.67	9.90	206	360	Peak
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																																																											
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																										
1	2368.52	54.52	74.00	-19.48	38.96	32.00	8.32	34.66	9.90	206	360	Peak																																																																																								
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Mode	2											
	Band Edge - R											
	2400-2483.5_Thread O-QPSK_CH17_2435MHz											
ANT	1											
Pol.	Horizontal						Fundamental					
Peak	<											



Mode	2																																																																																								
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Mode	2										
	Band Edge - R										
	2400-2483.5_Thread O-QPSK_CH17_2435MHz										
ANT	1										
Pol.	Vertical						Fundamental				
Peak	<										

Mode

2

Harmonic

2400-2483.5_Thread O-QPSK_CH17_2435MHz

ANT

1

Pol.

Horizontal

Vertical

Peak

Avg

Level (dBuV/m)

140

122.5

105.0

87.5

70.0

52.5

35.0

17.5

0

1000

5800

10600

15400

20200

25000

PEAK_74

AVG_54

Date: 2025-10-21

Site : 03CH07-HY

Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamplifier	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	4870.00	55.03	74.00	-18.97	66.09	34.20	12.01	58.27	1.00	100	243	Peak	
2	4870.00	50.84	54.00	-3.16	61.90	34.20	12.01	58.27	1.00	100	243	Average	
3	7305.00	49.37	74.00	-24.63	55.51	35.70	14.67	57.67	1.16	100	291	Peak	
4	7305.00	46.36	54.00	-7.64	52.50	35.70	14.67	57.67	1.16	100	291	Average	

Level (dBuV/m)

140

122.5

105.0

87.5

70.0

52.5

35.0

17.5

0

1000

5800

10600

15400

20200

25000

PEAK_74

AVG_54

Date: 2025-10-21

Site : 03CH07-HY

Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamplifier	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	4870.00	53.63	74.00	-20.37	64.69	34.20	12.01	58.27	1.00	100	268	Peak	
2	4870.00	48.54	54.00	-5.46	59.60	34.20	12.01	58.27	1.00	100	268	Average	
3	7305.00	49.94	74.00	-24.06	56.08	35.70	14.67	57.67	1.16	300	100	Peak	
4	7305.00	43.96	54.00	-10.04	50.10	35.70	14.67	57.67	1.16	300	100	Average	



Mode	3																																																																																																				
	Band Edge																																																																																																				
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ANT	1																																																																																																				
Pol.	Horizontal						Fundamental																																																																																														
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Mode	3											
	Band Edge											
	2400-2483.5_Thread O-QPSK_CH25_2475MHz											
ANT	1											
Pol.	Vertical						Fundamental					
Peak	Level (dBuV/m) Date: 2025-10-20 </											



Mode	3																																																																																									
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Avg	Level (dBuV/m) Date: 2025-10-20 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.200kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2483.52</td><td>53.44</td><td>54.00</td><td>-0.56</td><td>37.23</td><td>32.44</td><td>8.52</td><td>34.68</td><td>9.93</td><td>252</td><td>0 Average</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2483.52	53.44	54.00	-0.56	37.23	32.44	8.52	34.68	9.93	252	0 Average	Level (dBuV/m) Date: 2025-10-20 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.200kHz SMT:Auto <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>103.89</td><td>-----</td><td>-----</td><td>87.73</td><td>32.40</td><td>8.51</td><td>34.68</td><td>9.93</td><td>252</td><td>0 Average</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	103.89	-----	-----	87.73	32.40	8.51	34.68	9.93	252	0 Average
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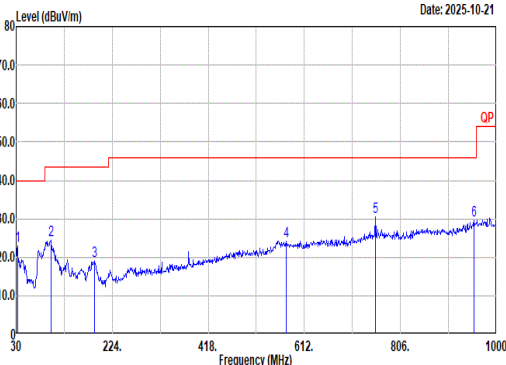
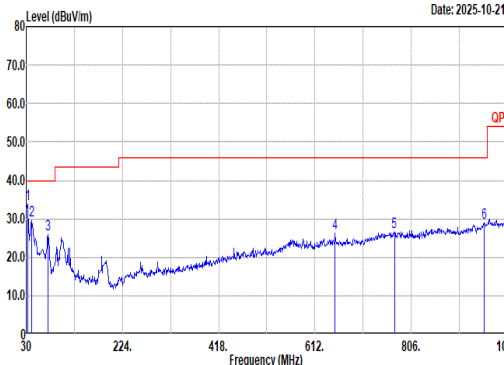


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1	2483.52	49.48	54.00	-4.52	33.27	32.44	8.52	34.68	9.93	100	283	Average																																																																																								
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1	2480.00	99.70	-----	-----	83.54	32.40	8.51	34.68	9.93	100	283	Average																																																																																								



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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																														
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	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>32.91</td><td>22.94</td><td>40.00</td><td>-17.06</td><td>29.00</td><td>22.79</td><td>1.07</td><td>30.00</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>99.84</td><td>24.48</td><td>43.50</td><td>-19.02</td><td>36.59</td><td>16.03</td><td>1.79</td><td>29.93</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>188.11</td><td>19.11</td><td>43.50</td><td>-24.39</td><td>31.78</td><td>14.83</td><td>2.43</td><td>29.93</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>576.11</td><td>24.30</td><td>46.00</td><td>-21.70</td><td>24.15</td><td>25.00</td><td>4.15</td><td>29.80</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>755.56</td><td>30.38</td><td>46.00</td><td>-15.62</td><td>26.85</td><td>28.40</td><td>4.74</td><td>29.61</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>954.41</td><td>29.47</td><td>46.00</td><td>-16.53</td><td>22.09</td><td>30.77</td><td>5.34</td><td>28.73</td><td>0.00</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	32.91	22.94	40.00	-17.06	29.00	22.79	1.07	30.00	0.00	--	Peak	2	99.84	24.48	43.50	-19.02	36.59	16.03	1.79	29.93	0.00	--	Peak	3	188.11	19.11	43.50	-24.39	31.78	14.83	2.43	29.93	0.00	--	Peak	4	576.11	24.30	46.00	-21.70	24.15	25.00	4.15	29.80	0.00	--	Peak	5	755.56	30.38	46.00	-15.62	26.85	28.40	4.74	29.61	0.00	--	Peak	6	954.41	29.47	46.00	-16.53	22.09	30.77	5.34	28.73	0.00	--	Peak	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>32.91</td><td>33.91</td><td>40.00</td><td>-6.09</td><td>40.05</td><td>22.79</td><td>1.07</td><td>30.00</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>2</td><td>41.64</td><td>29.47</td><td>40.00</td><td>-10.53</td><td>39.60</td><td>18.70</td><td>1.19</td><td>30.02</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>74.62</td><td>26.01</td><td>40.00</td><td>-13.99</td><td>41.46</td><td>12.92</td><td>1.55</td><td>29.92</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>652.74</td><td>26.31</td><td>46.00</td><td>-19.69</td><td>25.24</td><td>26.48</td><td>4.37</td><td>29.78</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>772.05</td><td>26.71</td><td>46.00</td><td>-19.29</td><td>23.21</td><td>28.26</td><td>4.78</td><td>29.54</td><td>0.00</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>952.47</td><td>29.13</td><td>46.00</td><td>-16.87</td><td>21.00</td><td>30.74</td><td>5.33</td><td>28.74</td><td>0.00</td><td>--</td><td>Peak</td></tr></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	32.91	33.91	40.00	-6.09	40.05	22.79	1.07	30.00	0.00	--	Peak	2	41.64	29.47	40.00	-10.53	39.60	18.70	1.19	30.02	0.00	--	Peak	3	74.62	26.01	40.00	-13.99	41.46	12.92	1.55	29.92	0.00	--	Peak	4	652.74	26.31	46.00	-19.69	25.24	26.48	4.37	29.78	0.00	--	Peak	5	772.05	26.71	46.00	-19.29	23.21	28.26	4.78	29.54	0.00	--	Peak	6	952.47	29.13	46.00	-16.87	21.00	30.74	5.33	28.74	0.00	--
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																
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1	32.91	22.94	40.00	-17.06	29.00	22.79	1.07	30.00	0.00	--	Peak																																																																																																																																																																																																														
2	99.84	24.48	43.50	-19.02	36.59	16.03	1.79	29.93	0.00	--	Peak																																																																																																																																																																																																														
3	188.11	19.11	43.50	-24.39	31.78	14.83	2.43	29.93	0.00	--	Peak																																																																																																																																																																																																														
4	576.11	24.30	46.00	-21.70	24.15	25.00	4.15	29.80	0.00	--	Peak																																																																																																																																																																																																														
5	755.56	30.38	46.00	-15.62	26.85	28.40	4.74	29.61	0.00	--	Peak																																																																																																																																																																																																														
6	954.41	29.47	46.00	-16.53	22.09	30.77	5.34	28.73	0.00	--	Peak																																																																																																																																																																																																														
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																																																																																																																	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																																																																																																															
1	32.91	33.91	40.00	-6.09	40.05	22.79	1.07	30.00	0.00	--	Peak																																																																																																																																																																																																														
2	41.64	29.47	40.00	-10.53	39.60	18.70	1.19	30.02	0.00	--	Peak																																																																																																																																																																																																														
3	74.62	26.01	40.00	-13.99	41.46	12.92	1.55	29.92	0.00	--	Peak																																																																																																																																																																																																														
4	652.74	26.31	46.00	-19.69	25.24	26.48	4.37	29.78	0.00	--	Peak																																																																																																																																																																																																														
5	772.05	26.71	46.00	-19.29	23.21	28.26	4.78	29.54	0.00	--	Peak																																																																																																																																																																																																														
6	952.47	29.13	46.00	-16.87	21.00	30.74	5.33	28.74	0.00	--	Peak																																																																																																																																																																																																														



Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
1	Thread for 250kbps	43.53	907	1.10	1.2kHz

