

# **FCC Test Report**

Report No.: AGC13578240501FR01

FCC ID : 2AA4QW141RX

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: Wireless transceiver box

**BRAND NAME** : Convoy Technologies

MODEL NAME : W141RX

**APPLICANT**: Convoy Technologies Inc

**DATE OF ISSUE** : Jun. 03, 2024

**STANDARD(S)** : FCC Part 15 Subpart C §15.247

**REPORT VERSION**: V1.0

Attestation Of Global Conclude (Shenzhen) Co., Ltd



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# **Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	/	Jun. 03, 2024	Valid	Initial Release	

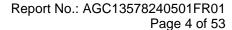


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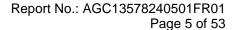
10.1 Provisions Applicable
Any report having not been signed by authorized approver; or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection
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presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report.
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### 1. General Information

	,				
Applicant	Convoy Technologies Inc				
Address	6409 Highview Drive, Fort Wayne, Indiana 46818, Fort Wayne, IN 46818, Unite States				
Manufacturer	Intec International (HongKong) Ltd				
Address	Unit 1223, Metro Center Tower 1, 32 Lamhing Street, Kowloon Bay, HongKong				
Factory	Intec International (HongKong) Ltd				
Address	Unit 1223, Metro Center Tower 1, 32 Lamhing Street, Kowloon Bay, HongKong				
Product Designation	Wireless transceiver box				
Brand Name	Convoy Technologies				
Test Model	W141RX				
Series Model(s)	N/A				
Difference Description	N/A				
Date of receipt of test item	May 17, 2024				
Date of Test	May 17, 2024~Jun. 03, 2024				
Deviation from Standard	No any deviation from the test method				
Condition of Test Sample	Normal				
Test Result	Pass				
Test Report Form No	AGCER-FCC-BLE-V1				

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui
(Project Engineer)

Reviewed By

Calvin Liu
(Reviewer)

Jun. 03, 2024

Approved By

Max Zhang
(Authorized Officer)

Jun. 03, 2024



# 2. Product Information

# 2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2410MHz-2474MHz
Modulation Type	QPSK
Number of channels	26
Maximum Transmitter Power	14.09dBm(0.02564 W)
Hardware Version	JY-RX03-4T1R-MB-V1_2
Software Version	SONIX-RX03 V1.1_240325
Antenna Designation	Reverse SMA antenna
Antenna Gain	5.25dBi
Power Supply	DC 12V
Adapter Information	N/A

# 2.2 Test Frequency List

Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	
1	2410	15	2447	
3	2413	16	2449	
4	2416	17	2451	
5	2419	18	2453	
6	2422	19	2456	
7	2425	20	2459	
8	2428	21	2461	
9	2431	22	2463	
10	2434	23	2466	
11	2437	24	2469	
12	2440	25	2472	
13	2442	26	2474	
14	2445			



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# 2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AA4QW141RX**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

# 2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity Document Title		
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations	
2	FCC 47 CFR Part 15	Radio Frequency Devices	
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices	
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules	

# 2.5 Special Accessories

Not available for this EUT intended for grant.

# 2.6 Equipment Modifications

Not available for this EUT intended for grant.

## 2.7 Antenna Requirement

# Standard Requirement

#### 15.203 requirement:

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, 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.

## 15.247(b) (4) requirement:

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

#### **EUT Antenna:**

The detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 5.25 dBi.



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#### 3. Test Environment

## 3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

# 3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

## CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

# A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

## FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

## IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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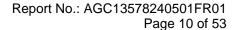
#### 3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 12V

# 3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$





# 3.5 List of Equipment Use

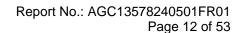
RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
$\boxtimes$	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023-06-01	2024-05-31
$\boxtimes$	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23
	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31
	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31
$\boxtimes$	AGC-EM-A152	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
$\boxtimes$	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2023-06-01	2024-05-31
$\boxtimes$	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22
$\boxtimes$	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A
$\boxtimes$	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A

• F	Radiated Spurious Emission						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
$\boxtimes$	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31
	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23
$\boxtimes$	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
$\boxtimes$	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27
	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
$\boxtimes$	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
$\boxtimes$	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30
	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23
$\boxtimes$	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03
	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2023-06-01	2024-05-31
	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-23
$\boxtimes$	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08



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<ul><li>A</li></ul>	AC Power Line Conducted Emission								
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
$\boxtimes$	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2023-06-03	2024-06-02		
$\boxtimes$	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27		
$\boxtimes$	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2024-06-08		
$\boxtimes$	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2023-06-03	2024-06-02		
$\boxtimes$	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27		





• Te	Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information	
$\boxtimes$	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A	
$\boxtimes$	AGC-EM-S011	RSE Test System	Tonscend	TS <sup>+</sup> Ver2.1(JS36-RSE)	4.0.0.0	
$\boxtimes$	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71	
$\boxtimes$	AGC-ER-S009	BT/WIFI Test System	Tonscend	JS1120-3	2.6.77.0518	



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# **4.System Test Configuration**

# 4.1 EUT Configuration

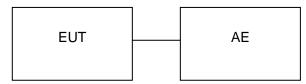
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 4.2 EUT Exercise

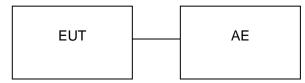
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

# 4.3 Configuration of Tested System

Radiated Emission Configure:



## Conducted Emission Configure:



# 4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

☐ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Control Box		USB-TTL	-	
2.	Adapter		FX24E-120200U		

Test Accessories Come From The Manufacturer

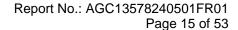
No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1					



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# 4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Pass



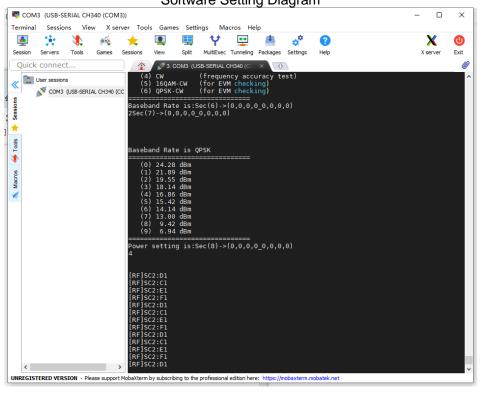


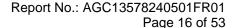
# 5. Description of Test Modes

Summary Table of Test Cases			
	Data Rate / Modulation		
Test Item	2.4G / QPSK		
Radiated & Conducted Test Cases	Mode 1: 2.4G Tx CH01_2410 MHz (AC/DC adapter powered)  Mode 2: 2.4G Tx CH14_2445 MHz (AC/DC adapter powered)		
	Mode 3: 2.4G Tx CH26_2474 MHz (AC/DC adapter powered)		
AC Conducted Emission	Mode 1: 2.4G Link + USB Cable (Charging from AC Adapter)		

#### Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- For Conducted Test method, a temporary antenna connector is provided by the manufacture.Software Setting Diagram







# 6. Duty Cycle Measurement

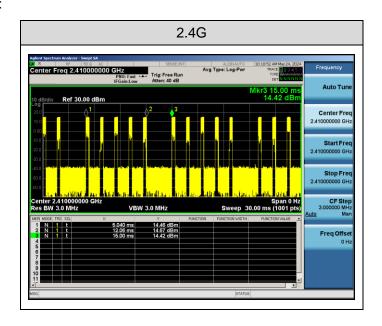
The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 3MHz, VBW = 3MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)
2.4G	7020	70.48

## Remark:

- Duty Cycle factor = 10 \* log (1/ Duty cycle)
- The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value

The test plots as follows:





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# 7. RF Output Power Measurement

## 7.1 Provisions Applicable

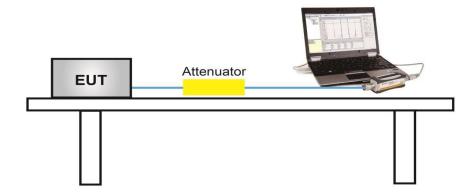
For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

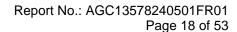
#### 7.2 Measurement Procedure

- For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the RBW ≥ DTS bandwidth
- 3. Set the VBW ≥ [3 x RBW].
- 4. Span ≥ [3 x RBW].
- 5. Sweep= auto couple.
- 6. Detector Function= Peak.
- 7. Trace mode= Max hold.
- 8. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

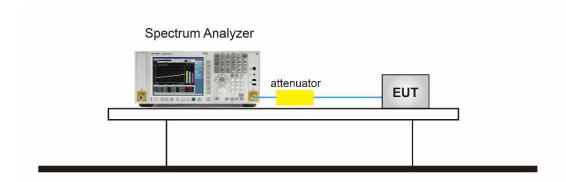
## 7.3 Measurement Setup (Block Diagram of Configuration)

For Average power test setup



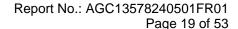




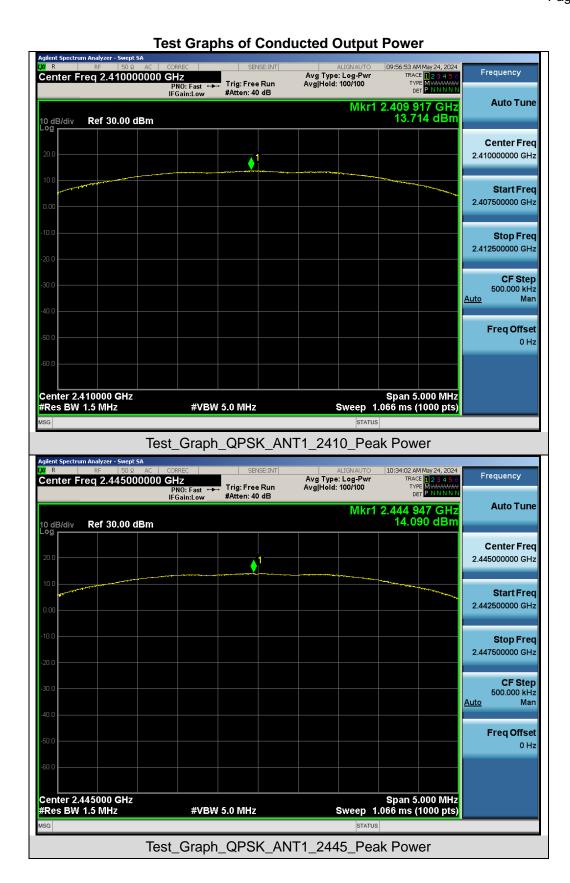


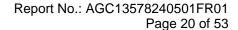
## 7.4 Measurement Result

Test Data of Conducted Output Power					
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
	2410	13.714	≤30	Pass	
QPSK_1Mbps	2445	14.090	≤30	Pass	
	2474	13.912	≤30	Pass	

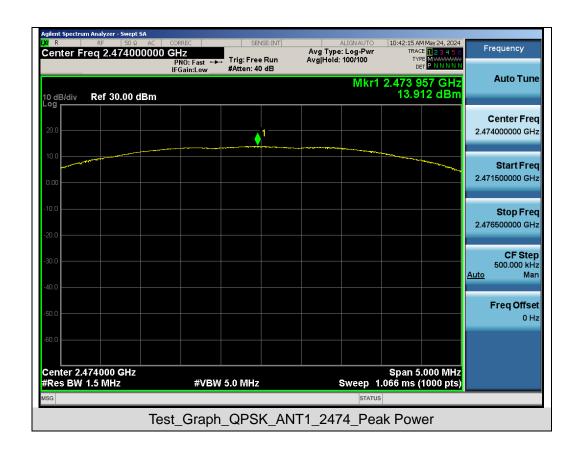














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#### 8. 6dB Bandwidth Measurement

## 8.1 Provisions Applicable

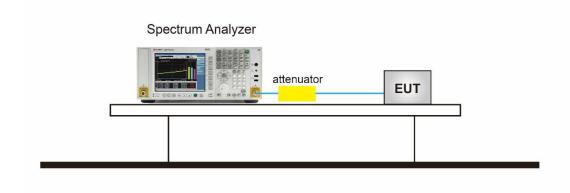
The minimum 6 dB bandwidth shall be 500 kHz.

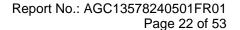
#### **8.2 Measurement Procedure**

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 \* RBW.
- 5. Measure and record the results in the test report.

## 8.3 Measurement Setup (Block Diagram of Configuration)



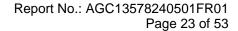




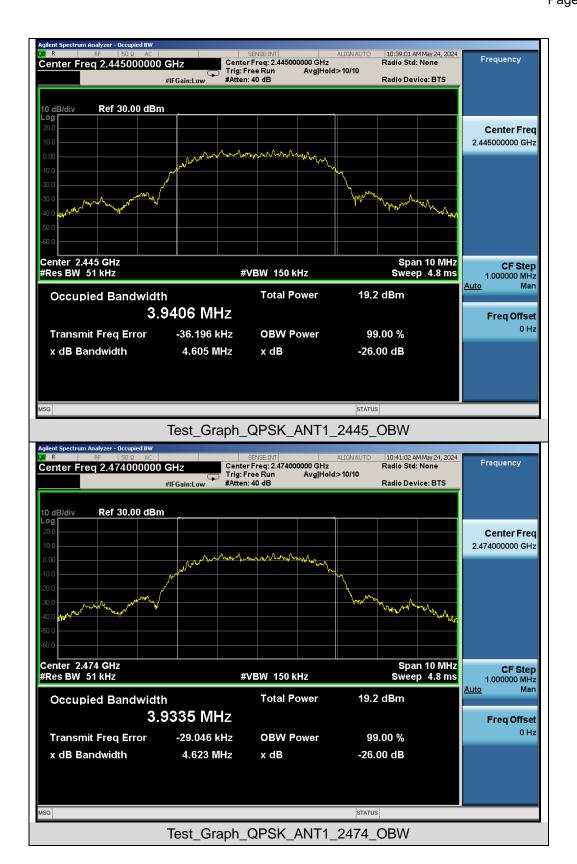
#### 8.4 Measurement Results

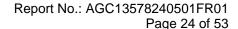
Test Data of Occupied Bandwidth and DTS Bandwidth					
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail
	2410	3.938	3.143	≥0.5	Pass
QPSK	2445	3.941	3.188	≥0.5	Pass
	2474	3.934	3.179	≥0.5	Pass

Test Graphs of Occupied Bandwidth 10:55:29 AM May 24, 2024 Radio Std: None Center Freq: 2.410000000 GHz Trig: Free Run Avg|Hole #Atten: 30 dB Frequency Center Freq 2.410000000 GHz Avg|Hold:>10/10 Radio Device: BTS Ref 30.00 dBm Center Freq 2.410000000 GHz Center 2.41 GHz #Res BW 51 kHz Span 10 MHz Sweep 4.8 ms **CF Step** 1.000000 MHz #VBW 150 kHz 18.9 dBm **Total Power** Occupied Bandwidth 3.9381 MHz Freq Offset 0 Hz **Transmit Freq Error** -32.099 kHz **OBW Power** 99.00 % x dB Bandwidth 4.611 MHz -26.00 dB x dB Test\_Graph\_QPSK\_ANT1\_2410\_OBW

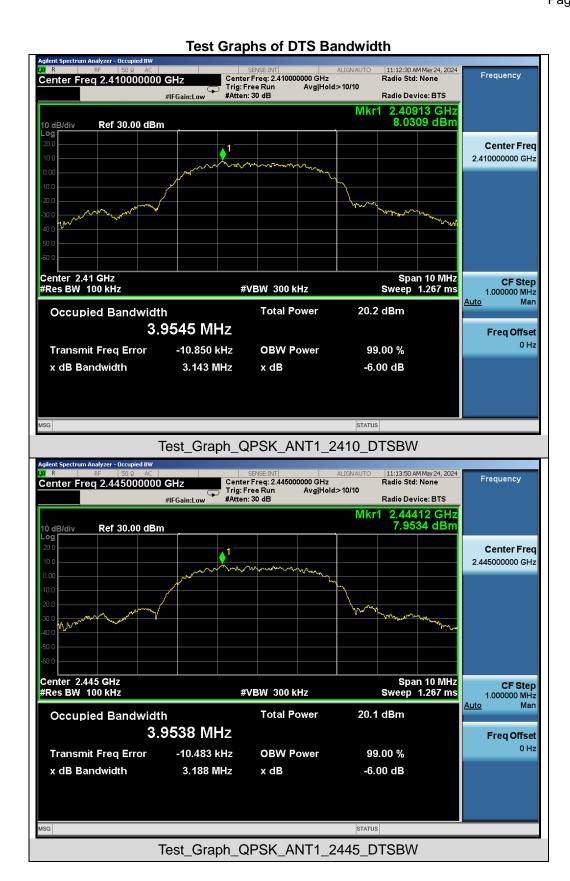




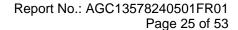




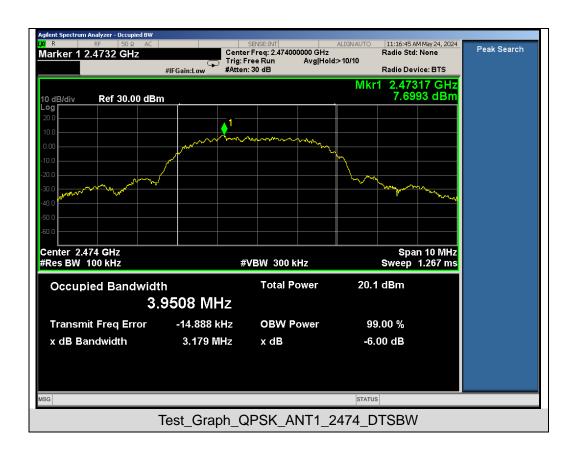


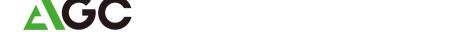


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# 9. Power Spectral Density Measurement

## 9.1 Provisions Applicable

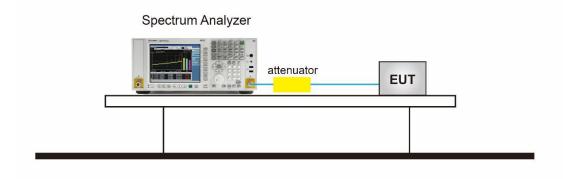
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### 9.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.

- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss
  was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 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. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

# 9.3 Measurement Setup (Block Diagram of Configuration)

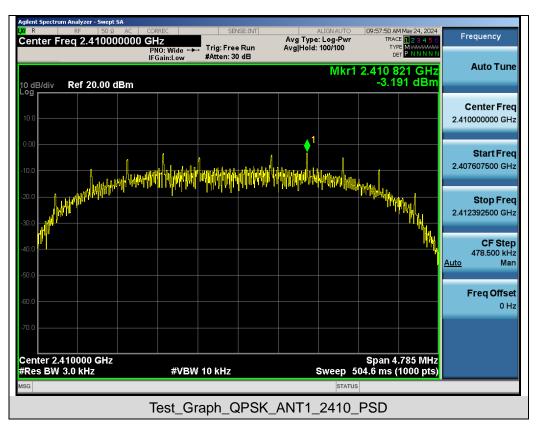




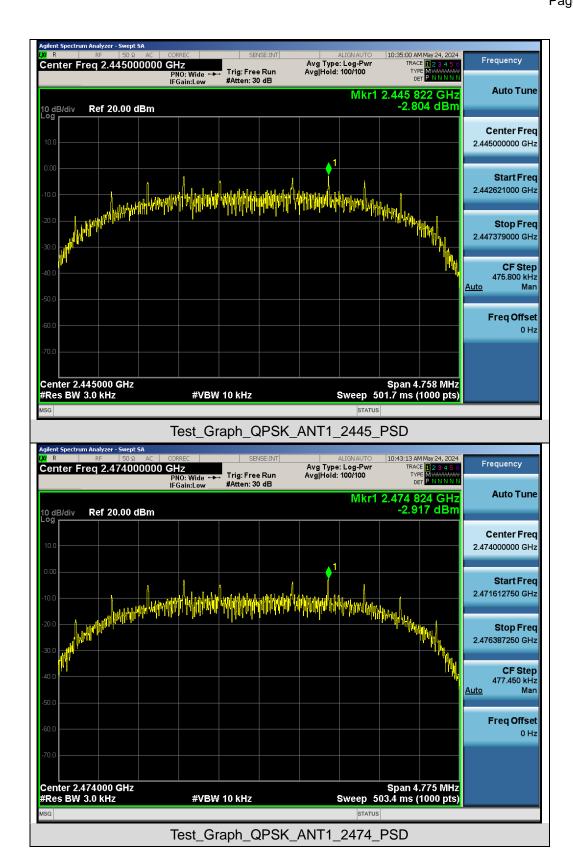
#### 9.4 Measurement Results

Test Data of Conducted Output Power Spectral Density					
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail	
	2410	-3.191	≤8	Pass	
QPSK	2445	-2.804	≤8	Pass	
	2474	-2.917	≪8	Pass	

# **Test Graphs of Conducted Output Power Spectral Density**









# 10. Conducted Band Edge and Out-of-Band Emissions

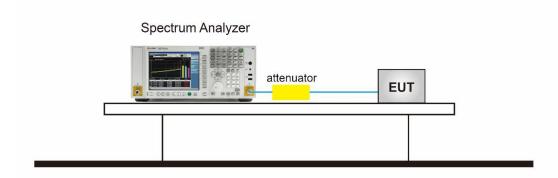
## 10.1 Provisions Applicable

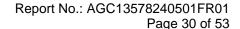
The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

#### 10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to ≥ 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- Set the VBW ≥ 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

## 10.3 Measurement Setup (Block Diagram of Configuration)





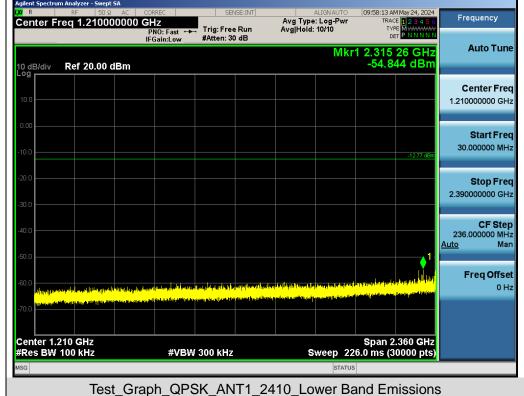


#### 10.4 Measurement Results

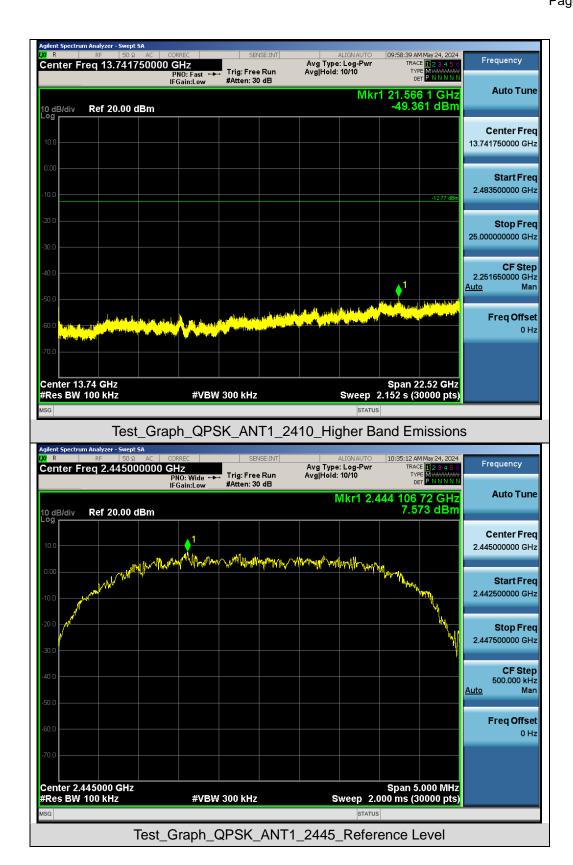
# Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

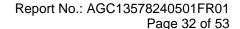


# Test\_Graph\_QPSK\_ANT1\_2410\_Reference Level

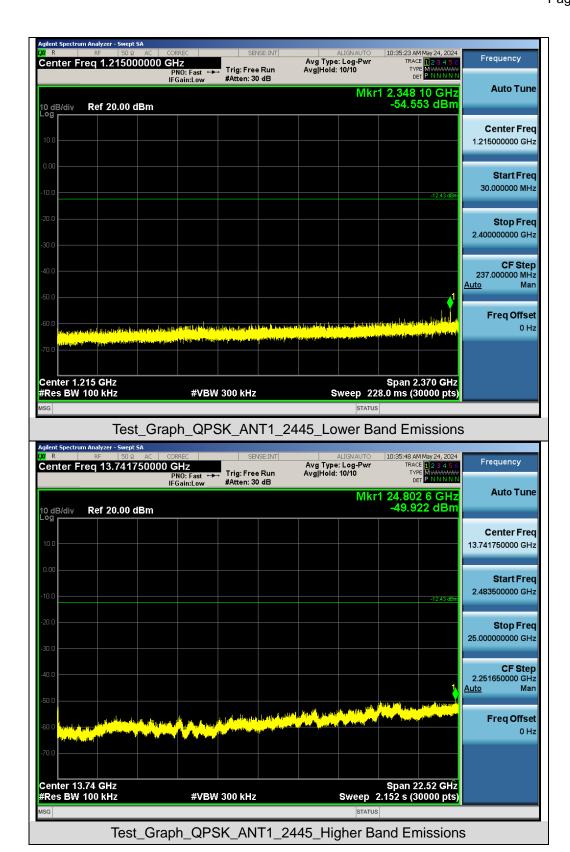




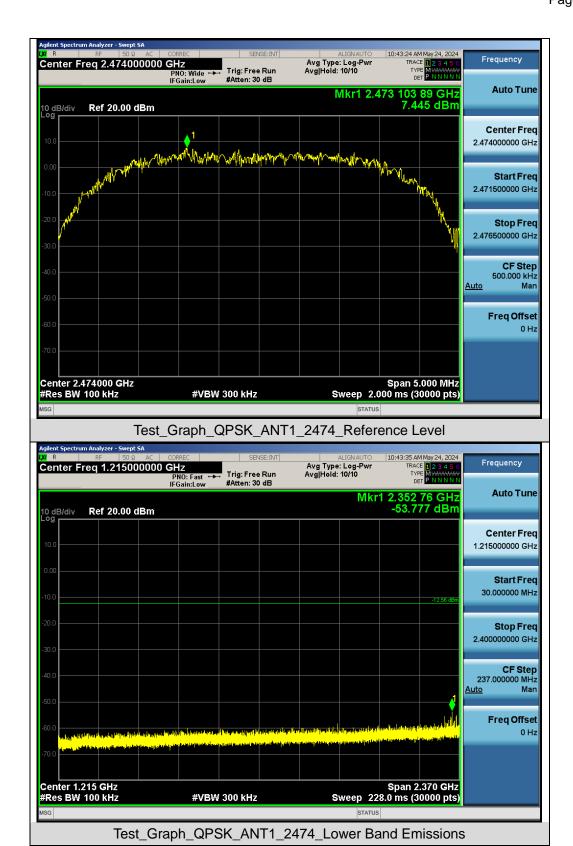


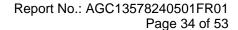




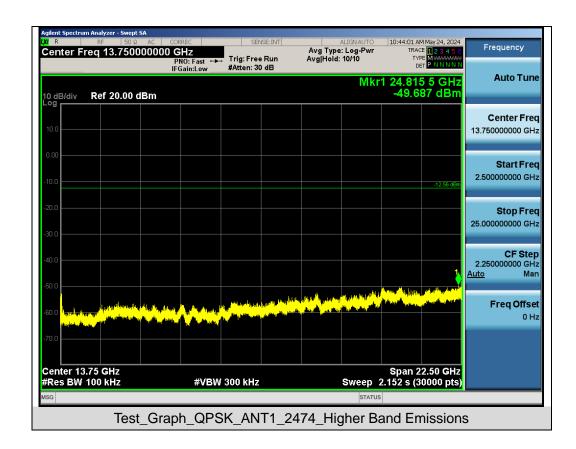


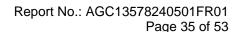














Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands Frequency Center Freq 2.402500000 GHz Avg Type: Log-Pwr Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB PNO: Fast --IFGain:Low DET P **Auto Tune** Mkr2 2.400 000 0 GHz -57.466 dBm Ref 20.00 dBm Center Freq 2.402500000 GHz Start Freq 2.390000000 GHz Stop Frea 2.415000000 GHz 2.500000 MHz <u>Auto</u> Freq Offset 0 Hz Center 2.40250 GHz #Res BW 100 kHz Span 25.00 MHz **#VBW** 300 kHz Sweep 4.000 ms (30000 pts) Test\_Graph\_QPSK\_ANT1\_2410\_Lower Band Edge Emissions Center Freq 2.484500000 GHz
PNO: Fast IFGain:Low Frequency Avg Type: Log-Pwr Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB **Auto Tune** Mkr2 2.483 500 0 GHz -50.586 dBm Ref 20.00 dBm Center Freq 2.484500000 GHz Start Freq 2.469000000 GHz Stop Freq 2.500000000 GHz **CF Step** 3.100000 MHz Freq Offset 0 Hz

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Test\_Graph\_QPSK\_ANT1\_2474\_Higher Band Edge Emissions

**#VBW** 300 kHz

Span 31.00 MHz

Sweep 4.000 ms (30000 pts)

Center 2.48450 GHz

#Res BW 100 kHz



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# 11. Radiated Spurious Emission

#### 11.1 Measurement Limit

FCC Part 15.209 Limit in the below table to be followed

Frequencies (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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

#### 11.2 Measurement Procedure

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.

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pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting			
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP			
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP			
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP			
Start ~Stop Frequency	1GHz~26.5GHz			
Clark - Clop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average			

Receiver Parameter	Setting		
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP		
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP		
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP		



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### Quasi-Peak Measurements below 1GHz

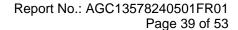
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

### Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

### Average Measurements above 1GHz

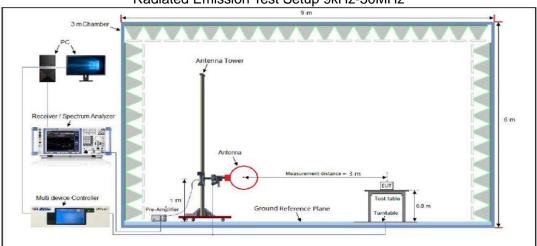
- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3.  $VBW \ge [3 \times RBW]$
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10\*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



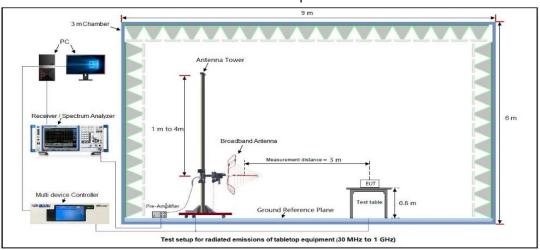


## 11.3 Measurement Setup (Block Diagram of Configuration)

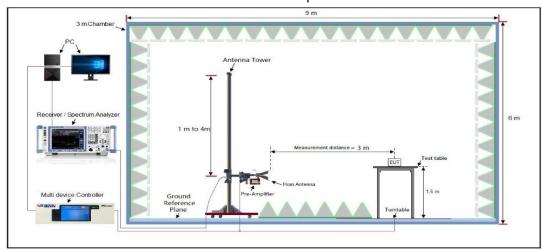
## Radiated Emission Test Setup 9kHz-30MHz



## Radiated Emission Test Setup 30MHz-1000MHz



#### Radiated Emission Test Setup Above 1000MHz



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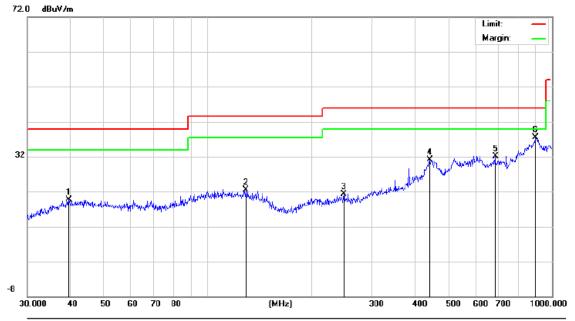


#### 11.4 Measurement Result

### **Radiated Emission Below 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

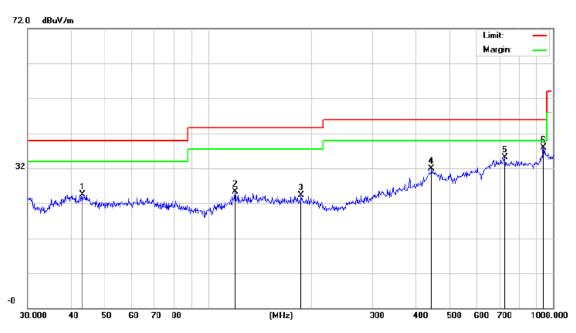
Radiated Emission Test Results at 30MHz-1GHz					
EUT Name Wireless transceiver box Model Name W141RX					
Temperature	22.4℃	Relative Humidity	59.5%		
Pressure	960hPa	Test Voltage	DC 12V		
Test Mode	Mode 1	Antenna Polarity	Horizontal		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector
1		39.5757	5.95	13.72	19.67	40.00	-20.33	peak
2		129.4677	6.60	15.83	22.43	43.50	-21.07	peak
3		248.5519	6.24	15.14	21.38	46.00	-24.62	peak
4		441.7426	5.99	25.04	31.03	46.00	-14.97	peak
5		684.7454	7.62	24.56	32.18	46.00	-13.82	peak
6	*	896.9965	6.09	31.42	37.51	46.00	-8.49	peak



Radiated Emission Test Results at 30MHz-1GHz				
EUT Name	Wireless transceiver box	Model Name	W141RX	
Temperature	22.4℃	Relative Humidity	59.5%	
Pressure	960hPa	Test Voltage	DC 12V	
Test Mode	Mode 1	Antenna Polarity	Vertical	



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dΒ	Detector
1		43.3534	7.57	16.93	24.50	40.00	-15.50	peak
2		119.8556	7.73	17.67	25.40	43.50	-18.10	peak
3		186.4409	6.00	18.31	24.31	43.50	-19.19	peak
4		444.8514	6.07	25.88	31.95	46.00	-14.05	peak
5		726.8052	6.89	28.15	35.04	46.00	-10.96	peak
6	*	938.8326	6.97	30.84	37.81	46.00	-8.19	peak

# **RESULT: Pass**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.



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### **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4820.000	46.35	0.08	46.43	74	-27.57	peak	
4820.000	37.89	0.08	37.97	54	-16.03	AVG	
7230.000	41.25	2.21	43.46	74	-30.54	peak	
7230.000	32.96	2.21	35.17	54	-18.83	AVG	

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
4820.000	46.44	0.08	46.52	74	-27.48	peak	
4820.000	37.56	0.08	37.64	54	-16.36	AVG	
7230.000	41.23	2.21	43.44	74	-30.56	peak	
7230.000	32.12	2.21	34.33	54	-19.67	AVG	

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## **RESULT: Pass**



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### **Radiated Emissions Test Results for Above 1GHz**

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 2	Antenna Polarity	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
45.69	0.14	45.83	74	-28.17	peak
38.73	0.14	38.87	54	-15.13	AVG
41.34	2.36	43.7	74	-30.3	peak
34.11	2.36	36.47	54	-17.53	AVG
	(dBµV) 45.69 38.73 41.34	(dBµV) (dB) 45.69 0.14 38.73 0.14 41.34 2.36	(dBμV)     (dB)     (dBμV/m)       45.69     0.14     45.83       38.73     0.14     38.87       41.34     2.36     43.7	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       45.69     0.14     45.83     74       38.73     0.14     38.87     54       41.34     2.36     43.7     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       45.69     0.14     45.83     74     -28.17       38.73     0.14     38.87     54     -15.13       41.34     2.36     43.7     74     -30.3

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 2	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4890.000	45.03	0.14	45.17	74	-28.83	peak
4890.000	37.24	0.14	37.38	54	-16.62	AVG
7335.000	40.88	2.36	43.24	74	-30.76	peak
7335.000	33.58	2.36	35.94	54	-18.06	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## **RESULT: Pass**



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#### Radiated Emissions Test Results for Above 1GHz

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 3	Antenna Polarity	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.86	0.22	47.08	74	-26.92	peak
38.77	0.22	38.99	54	-15.01	AVG
41.69	2.64	44.33	74	-29.67	peak
32.85	2.64	35.49	54	-18.51	AVG
	(dBµV) 46.86 38.77 41.69	(dBµV) (dB) 46.86 0.22 38.77 0.22 41.69 2.64	(dBμV)     (dB)     (dBμV/m)       46.86     0.22     47.08       38.77     0.22     38.99       41.69     2.64     44.33	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       46.86     0.22     47.08     74       38.77     0.22     38.99     54       41.69     2.64     44.33     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       46.86     0.22     47.08     74     -26.92       38.77     0.22     38.99     54     -15.01       41.69     2.64     44.33     74     -29.67

Remark

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	22.4℃	Relative Humidity	59.5%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 3	Antenna Polarity	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4948.000	46.25	0.22	46.47	74	-27.53	peak
4948.000	38.69	0.22	38.91	54	-15.09	AVG
7422.000	40.51	2.64	43.15	74	-30.85	peak
7422.000	31.25	2.64	33.89	54	-20.11	AVG

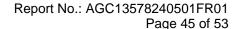
Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

## **RESULT: Pass**

#### Note:

- The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.

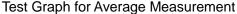


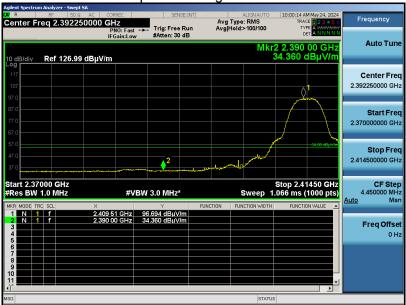


EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Horizontal

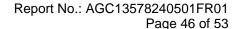
Test Graph for Peak Measurement







## **RESULT: Pass**

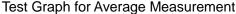




EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 1	Antenna Polarity	Vertical

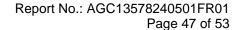
Test Graph for Peak Measurement







## **RESULT: Pass**

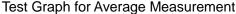




EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 3	Antenna Polarity	Horizontal

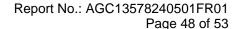
Test Graph for Peak Measurement







## **RESULT: Pass**

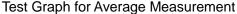




EUT Name	Wireless transceiver box	Model Name	W141RX
Temperature	25℃	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 12V
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement







# **RESULT: Pass**

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



## 12. AC Power Line Conducted Emission Test

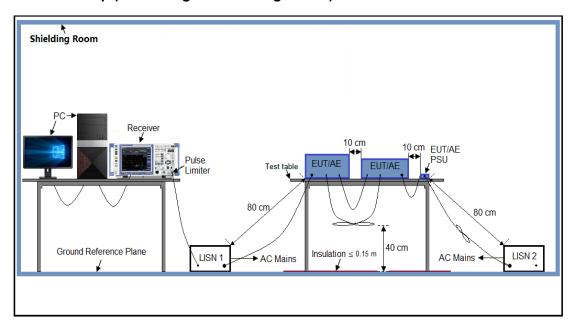
### 12.1 Measurement Limit

Francis	Maximum RF	Line Voltage
Frequency	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

### Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

## 12.2 Measurement Setup (Block Diagram of Configuration)





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## 12.3 Preliminary Procedure of Line Conducted Emission Test

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

## 12.4 Final Procedure of Line Conducted Emission Test

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.



#### 12.5 Measurement Results

	AC Power Line Conducted Emission Test				
est Mode	Mode 1		LISN Line	Hot Side	
			,	•	
Lev	/el [dΒμV]				
80 T					
70					
60					
50	<del>-</del>				
40 A		Jan Stranger Market Stranger S			
20 -		Marin and Marin and Marin and			
10				Tooling Control	
"					
-10	<u>i i</u>				
1	50k 300k	400k 600k 800k 1M	2M 3M 4M 5M 6M 8N Frequency [Hz]	1 10M 20M 30M	

# MEASUREMENT RESULT: "agc\_fin"

2024/5/27 10:59

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.562000	41.00	6.2	56	15.0	QP	L1
0.610000	33.40	6.2	56	22.6	QP	L1
0.866000	35.70	6.2	56	20.3	QP	L1
1.062000	34.70	6.2	56	21.3	QP	L1
1.186000	34.20	6.2	56	21.8	QP	L1
1.246000	34.30	6.2	56	21.7	QP	L1

## MEASUREMENT RESULT: "agc\_fin2"

2024/5/27 10:59

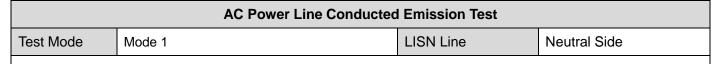
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.554000 0.950000 1.662000 3.306000 3.358000 4.506000	33.60 27.20 24.50 26.40 26.20 25.20	6.2 6.2 6.3 6.3 6.3	46 46 46 46 46	12.4 18.8 21.5 19.6 19.8 20.8	AV AV AV AV AV	L1 L1 L1 L1 L1

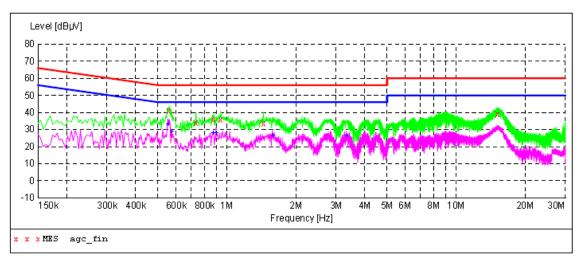
## **RESULT: Pass**

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## MEASUREMENT RESULT: "agc\_fin"

2024/5/27 11:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.562000	41.10	6.2	56	14.9	OP	N
0.734000	34.10	6.2	56	21.9	QP	N
0.878000	36.00	6.2	56	20.0	QP	N
0.942000	36.00	6.2	56	20.0	QP	N
1.446000	33.70	6.2	56	22.3	QP	N
15.178000	39.00	6.9	60	21.0	OP	N

## MEASUREMENT RESULT: "agc fin2"

2024/5/27 11:03

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.554000 0.574000 0.874000 0.898000 1.582000 3.330000	32.80 28.90 27.80 27.70 26.30 26.30	6.2 6.2 6.2 6.2 6.3	46 46 46 46 46	13.2 17.1 18.2 18.3 19.7	AV AV AV AV AV	N N N N N

### **RESULT: PASS**



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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC13578240501AP01

**APPENDIX II: Photographs of Test EUT** 

Refer to the Report No.: AGC013578240501AP02

----End of Report----



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- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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- 6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
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- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.