

Prüfbericht-Nr.: Test report no.:	CN264ONQ 004	Auftrags-Nr.: Order no.:	27231945	Seite 1 von 24 Page 1 of 24
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-04-27	
Auftraggeber: Client:	Shenzhen PICEA Robotics Co., Ltd. 101&201&301&401&501 of bldg.C6, bldg.C1&C2, No.5 of Bldg.C1&C2&C3, No.145 of Yuhu Road, Yulu Subdistrict, Yutang st., Guangming Dist., ShenZhen Guangdong P.R. China			
Prüfgegenstand: Test item:	Dyson R3 nurovi Spot+Scrub UV			
Bezeichnung / Typ-Nr.: Identification / Type no.:	RB05-B (Trademark: Dyson)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart E Section 15.407 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2026-05-13	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A004277333-001~003 A004301666-001			
Prüfzeitraum: Testing period:	2026-05-22 - 2026-07-07			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	<u>X</u> <i>Bell Hu</i> Bell Hu	genehmigt von: authorized by:	<u>X</u> <i>Hardy Suo</i> Hardy Suo	
Datum: Date:	2026-07-10	Ausstellungsdatum: Issue date:	2026-07-10	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2BS3VRB05B01 IC: 34846-RB05B01 HVIN: RB05-B This report is for 5GHz Wi-Fi.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht-Nr.: CN264ONQ 004
Test report no.:

Seite 2 von 24
Page 2 of 24

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 FREQUENCY STABILITY

RESULT: Pass

5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.6 6dB BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 DYNAMIC FREQUENCY SELECTION (DFS)

RESULT: Pass

5.1.9 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES	6
2.1	TEST FACILITIES.....	6
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACEABILITY.....	7
2.4	CALIBRATION.....	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	8
2.7	STATUS OF FACILITY USED FOR TESTING	8
3	GENERAL PRODUCT INFORMATION.....	9
3.1	PRODUCT FUNCTION AND INTENDED USE.....	9
3.2	RATINGS AND SYSTEM DETAILS	9
3.3	INDEPENDENT OPERATION MODES.....	11
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	11
3.5	SUBMITTED DOCUMENTS	11
4	TEST SET-UP AND OPERATION MODES.....	12
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	12
4.2	TEST OPERATION AND TEST SOFTWARE.....	12
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	12
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	12
4.5	TEST SETUP DIAGRAM	13
5	TEST RESULTS.....	15
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	15
5.1.1	Antenna Requirement.....	15
5.1.2	Maximum Peak Conducted Output Power.....	16
5.1.3	Conducted Power Spectral Density	17
5.1.4	Frequency Stability	18
5.1.5	26dB Bandwidth and 99% Bandwidth	19
5.1.6	6dB Bandwidth.....	20
5.1.7	Radiated Spurious Emission	21
5.1.8	Dynamic Frequency Selection (DFS).....	22
5.1.9	Conducted Emission on AC Mains	23
6	PHOTOGRAPHS OF THE TEST SET-UP	24
7	LIST OF TABLES	24

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend 1)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	102505	2025-09-23	2026-09-22
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2025-09-23	2026-09-22
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2025-09-23	2026-09-22
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2025-09-23	2026-09-22
DC power supply	Keysight	E3642A	MY61276100	2025-09-23	2026-09-22
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A	N/A
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27

Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2027-02-03
Artificial Mains Network	R&S	ENV216	102333	2026-07-18
Artificial Mains Network	R&S	ENV216	101445	2027-02-03
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. File for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The products are Robot Vacuum Cleaner & Docking Station. Robot Vacuum Cleaner supports Bluetooth dual mode, 2.4GHz Wi-Fi and 5GHz Wi-Fi wireless technologies.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Dyson R3 nurovi Spot+Scrub UV (Robot Vacuum Cleaner)
Type Designation:	RB05-B
Trademark:	Dyson
FCC ID:	2BS3VRB05B01
IC:	34846-RB05B01
HVIN:	RB05-B
Operating Voltage:	Internal battery operated
Testing Voltage:	Fully charged battery or AC 120V, 60Hz
Operating Temperature Range:	+5 °C ~ +40 °C
Docking Station:	Model: RB05-B-DOCK Input: AC 110-127V, 50-60Hz Output: DC 20V, 1.8A
Technical Specification of 5GHz Wi-Fi	
Operating Frequency:	5180-5240MHz, 5260-5320MHz, 5500-5700MHz, 5745-5825MHz
Channel Number:	5180-5240MHz, 7CHs, 802.11 a/n20/n40/ac20/ac40/ac80 5260-5320MHz, 7CHs, 802.11 a/n20/n40/ac20/ac40/ac80 5500-5700MHz, 18CHs, 802.11 a/n20/n40/ac20/ac40/ac80 5745-5825MHz, 8CHs, 802.11 a/n20/n40/ac20/ac40/ac80
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Data Rate:	6/9/12/18/24/36/48/54 Mbps for 802.11a MCS0~MCS7 for 802.11n MCS0~MCS9 for 802.11ac
Channel Separation:	20MHz, 40MHz, 80MHz
Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	Max. 2.50dBi for U-NII Band 5150-5250MHz Max. 2.50dBi for U-NII Band 5250-5350MHz Max. 3.58dBi for U-NII Band 5470-5725MHz Max. 3.65dBi for U-NII Band 5745-5825MHz (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of 5GHz Wi-Fi

U-NII-1					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

U-NII-2A					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

U-NII-2C					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

U-NII-3					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5G Wi-Fi wireless transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Charging
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model *RB05-B* in this report.

Power Level Code Configuration: 802.11a/n/ac: 63,

20MHz BW: Channel 64(5320MHz): 56, Channel 100(5500MHz): 59, Channel 140 (5700MHz): 60

40MHz BW: Channel 38(5190MHz): 56, Channel 62(5310MHz): 47, Channel 102(5510MHz): 50

80MHz BW: Channel 42(5210MHz): 53, Channel 58(5290MHz): 45, Channel 106 (5530MHz): 48

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Router	NETGEAR	R7000	FCC ID: PY313200233 IC: 4054A-13200233

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

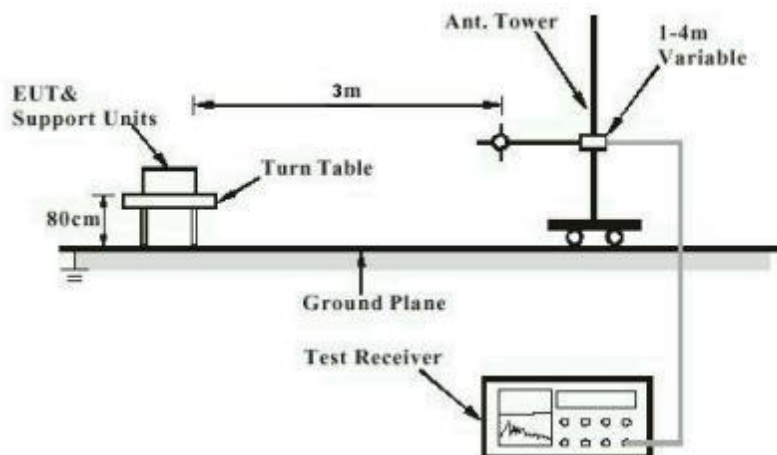


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

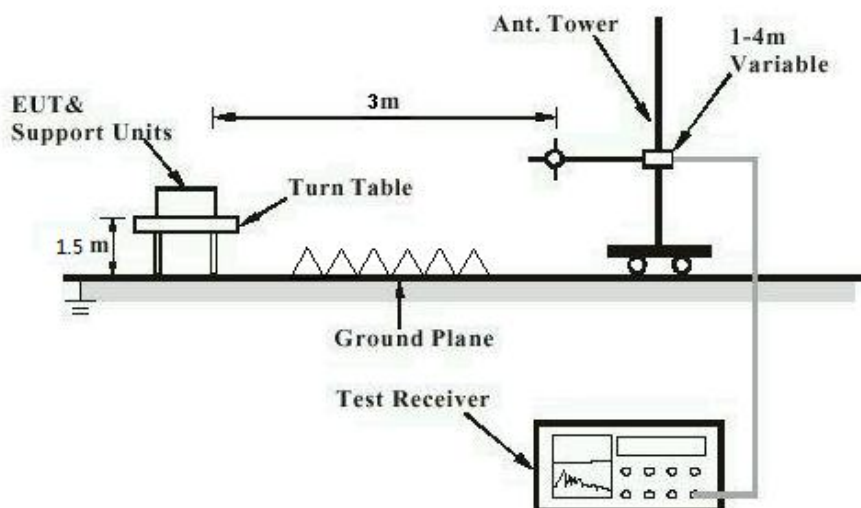


Diagram of Measurement Configuration for Mains Conduction Measurement

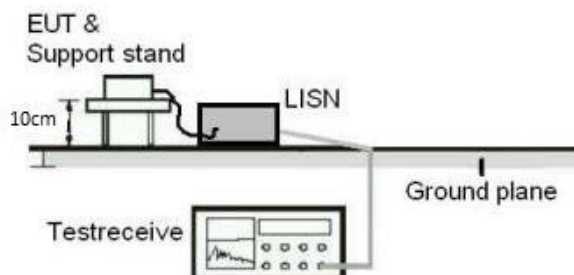


Diagram of Measurement Configuration for Conducted Transmitter Measurement

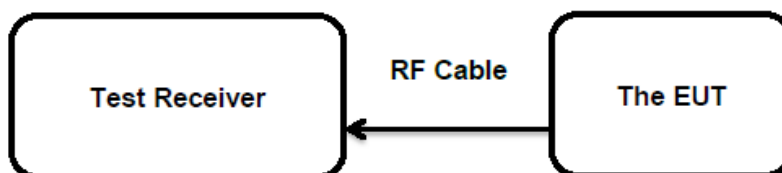
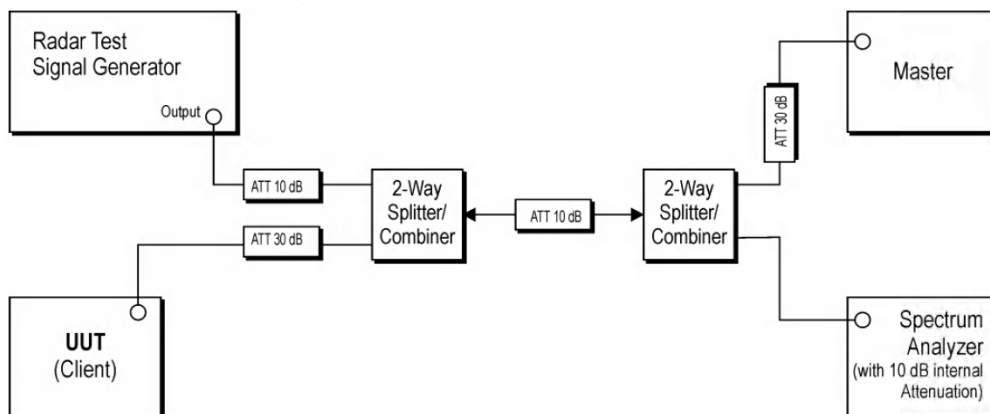


Diagram of Measurement Configuration for Dynamic Frequency Selection (DFS)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203
RSS-Gen clause 6.8

According to the manufacturer declared, the EUT has Integral antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Prüfbericht - Nr.: CN264ONQ 004
Test Report No.:Seite 16 von 24
Page 16 of 24

5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.407(a)(1)&(2)&(3) RSS-247 clause 7.3
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: FCC: <250mW (24dBm) (5150-5250MHz) * <250mW (24dBm) (5250-5350MHz, 5470-5725MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz, where is lesser. <1W (30dBm) (5725-5850MHz) IC: * Max e.i.r.p. <200mW (23dBm) (5150-5250MHz) * 200 mW (23dBm) or 10 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max conducted output power < 250mW (24dBm) (5250- 5350MHz) * 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. * Max e.i.r.p. <1W (30dBm) (5250-5350MHz, 5470-5725MHz) * 1 W (30dBm) or 17 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. Max conducted output power <1W (30dBm) (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN264ONQ 004
Test Report No.:Seite 17 von 24
Page 17 of 24

5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard	: FCC part 15.407(a) RSS-247 clause 7.3
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024 KDB 789033 D02 v01r03
Limits	: FCC: <11dBm/MHz (5150-5250MHz 5250-5350MHz, 5470- 5725MHz) <30dBm/500kHz (5725-5850MHz) IC: e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz) <11dBm/1MHz (5250-5350MHz, 5470-5725MHz) <30dBm/500kHz (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN264ONQ 004
Test Report No.:Seite 18 von 24
Page 18 of 24

5.1.4 Frequency Stability

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.407(g)
RSS-Gen Clause 6.11

Basic standard : ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+
C63.10a:2024

Limits : Within assigned bands

Kind of test site : Shielded Room

Test Setup

Date of testing : 2026-05-26 to 2026-07-07

Input voltage : Fully charged battery

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN264ONQ 004
Test Report No.:Seite 19 von 24
Page 19 of 24

5.1.5 26dB Bandwidth and 99% Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407 RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: N/A
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: **CN264ONQ 004**
Test Report No.:Seite 20 von 24
Page 20 of 24

5.1.6 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(e) RSS-247 clause 7.3.4.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: At least 500kHz (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209 RSS-247 clause 7.3 & RSS-GEN clause 8.9 and 8.10
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024 KDB 789033 D02 v01r03
Limits	: • For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. • For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. • For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. • For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. • Restricted Bands meet the requirement of 15.209 limit and RSS-GEN
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-22 to 2026-07-04
Input voltage	: Fully charged battery
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.8 Dynamic Frequency Selection (DFS)

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(h) RSS-247 clause 7.3.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: 5250-5350MHz, 5470-5725MHz Channel Move Time: Within 10 seconds. Channel Closing Transmission Time: 200ms+aggregate of 60ms over remaining 10s period; Non-Occupancy Period: at least 30 minutes.
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-26 to 2026-07-07
Input voltage	: Fully charged battery
Operation mode	: A
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht - Nr.: CN264ONQ 004
Test Report No.:Seite 23 von 24
Page 23 of 24

5.1.9 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207 RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-06-29 to 2026-07-07
Input voltage	: AC 120V, 60Hz
Operation mode	: B
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

Table 1: List of Test and Measurement Equipment	6
Table 2: Measurement Uncertainty.....	7
Table 3: Technical Specification of EUT	9
Table 4: RF Channel and Frequency of 5GHz Wi-Fi	10
Table 5: List of Accessories and Auxiliary Equipment.....	12

Appendix A: Test Results of 5GHz Wi-Fi

APPENDIX A: TEST RESULTS OF 5GHZ WI-FI	1
APPENDIX A.1: TEST RESULTS OF 26dB BANDWIDTH	2
Test Result.....	2
Test Graphs.....	3
APPENDIX A.2: TEST RESULTS OF 99% BANDWIDTH	13
Test Result.....	13
Test Graphs.....	14
APPENDIX A.3: TEST RESULTS OF 6dB BANDWIDTH	27
Test Result.....	27
Test Graphs.....	28
APPENDIX A.4: TEST RESULTS OF MAXIMUM OUTPUT POWER.....	31
Test Result.....	31
APPENDIX A.5: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	33
Test Result.....	33
Test Graphs.....	34
APPENDIX A.6: TEST RESULTS OF FREQUENCY STABILITY.....	51
Test Result.....	51
APPENDIX A.7: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS.....	53
30MHz - 1GHz.....	53
1GHz - 18GHz.....	55
APPENDIX A.8: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS.....	67
Wi-Fi 802.11 a mode.....	67
Wi-Fi 802.11 n(HT20) mode.....	79
Wi-Fi 802.11 ac(VHT40) mode.....	91
Wi-Fi 802.11 ac(VHT80) mode.....	103
APPENDIX A.9: TEST RESULTS OF DYNAMIC FREQUENCY SELECTION (DFS).....	113
DFS Detection Thresholds.....	113
Channel Move Time and Channel Closing Transmission Time.....	114
Non-Occupancy Period.....	115
APPENDIX A.10: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS.....	116

Appendix A.1: Test Results of 26dB Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.680	5170.200	5189.880	---	PASS
		5200	20.200	5190.200	5210.400	---	PASS
		5240	19.920	5230.000	5249.920	---	PASS
		5260	19.680	5250.360	5270.040	---	PASS
		5280	20.560	5269.760	5290.320	---	PASS
		5320	20.000	5309.880	5329.880	---	PASS
		5500	20.200	5490.160	5510.360	---	PASS
		5580	20.200	5569.960	5590.160	---	PASS
11N20SISO	Ant1	5700	20.040	5689.880	5709.920	---	PASS
		5180	20.560	5169.840	5190.400	---	PASS
		5200	20.760	5189.760	5210.520	---	PASS
		5240	21.240	5229.200	5250.440	---	PASS
		5260	20.760	5249.600	5270.360	---	PASS
		5280	20.400	5269.600	5290.000	---	PASS
		5320	20.200	5309.800	5330.000	---	PASS
		5500	19.960	5490.080	5510.040	---	PASS
11AC40SISO	Ant1	5580	21.320	5569.360	5590.680	---	PASS
		5700	20.320	5689.800	5710.120	---	PASS
		5190	39.520	5170.480	5210.000	---	PASS
		5230	39.920	5210.160	5250.080	---	PASS
		5270	40.240	5249.520	5289.760	---	PASS
		5310	40.800	5289.520	5330.320	---	PASS
		5510	42.480	5488.720	5531.200	---	PASS
		5550	40.160	5529.840	5570.000	---	PASS
11AC80SISO	Ant1	5670	40.720	5649.920	5690.640	---	PASS
		5210	80.640	5169.840	5250.480	---	PASS
		5290	80.640	5249.520	5330.160	---	PASS
		5530	80.000	5490.480	5570.480	---	PASS
		5610	80.960	5569.200	5650.160	---	PASS

Test Graphs

11A Ant1 5180



11A Ant1 5200



11A Ant1 5240



11A Ant1 5260



11A Ant1 5280



11A Ant1 5320



11A Ant1 5500



11A Ant1 5580



11A Ant1 5700



11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N20SISO Ant1 5260



11N20SISO Ant1 5280



11N20SISO Ant1 5320





11AC40SISO Ant1 5190



11AC40SISO Ant1 5230



11AC40SISO Ant1 5270



11AC40SISO Ant1 5310



11AC40SISO Ant1 5510



11AC40SISO Ant1 5550







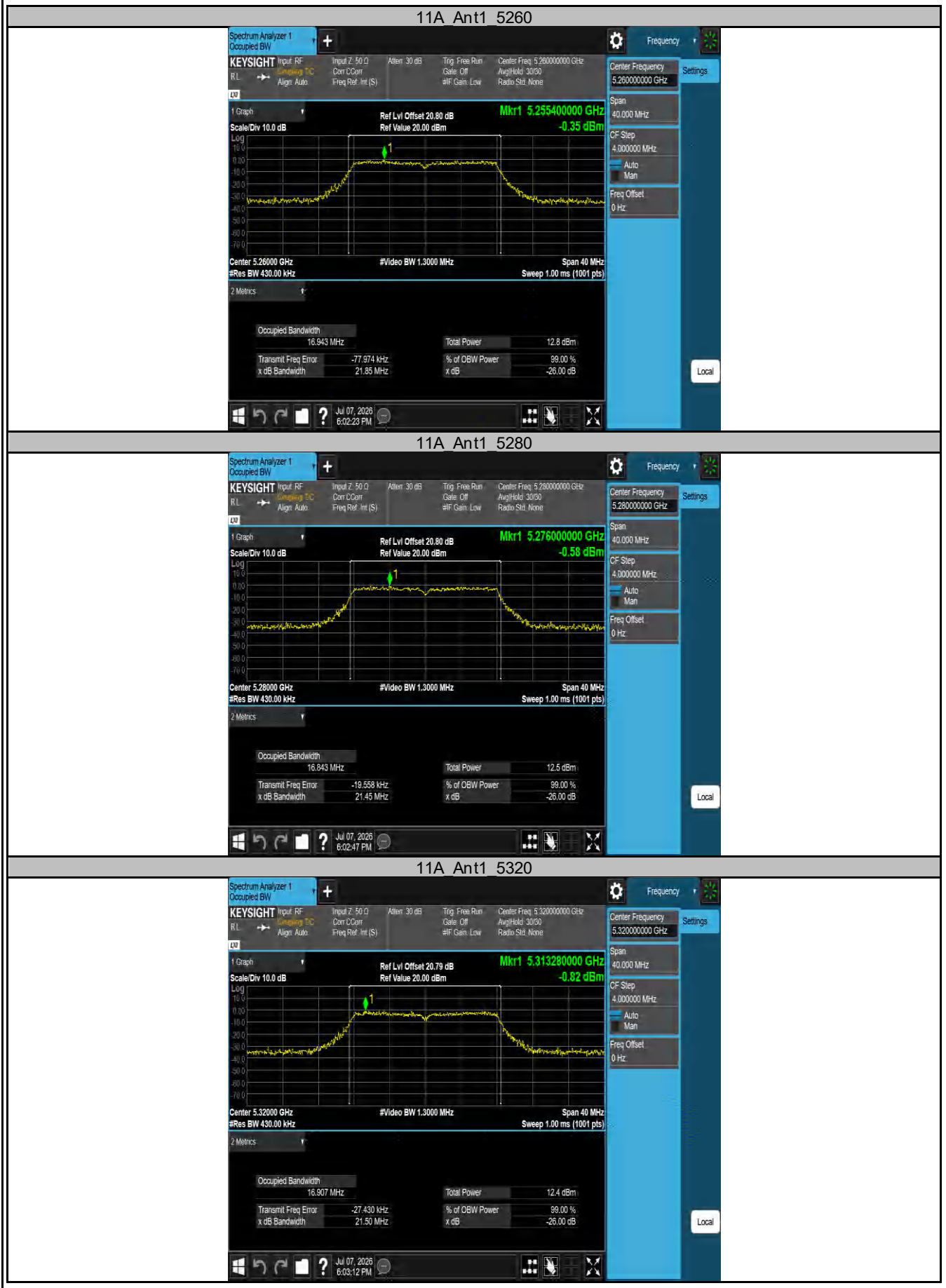
Appendix A.2: Test Results of 99% Bandwidth

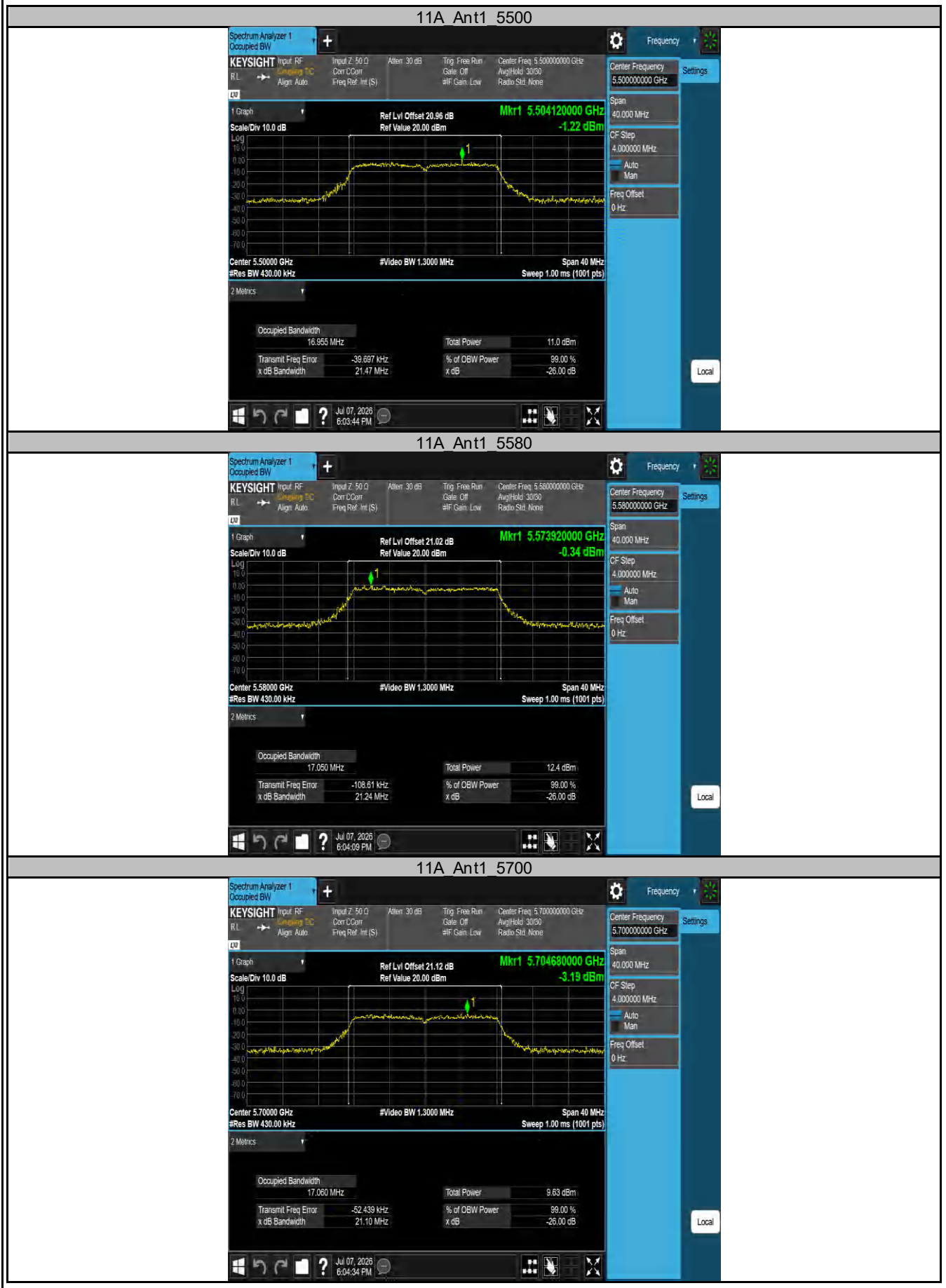
Test Result

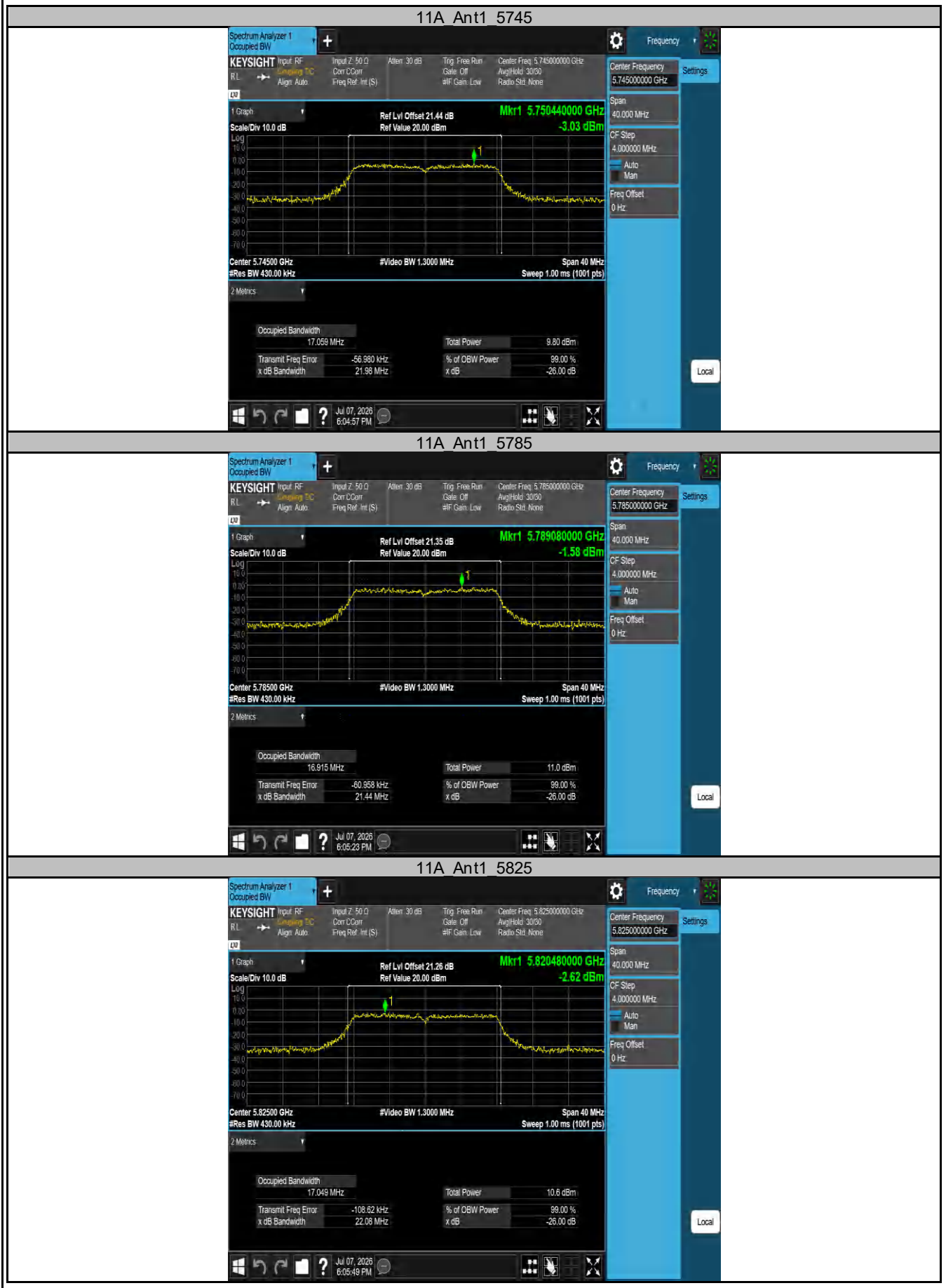
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.153	5171.4312	5188.5842	---	PASS
		5200	16.946	5191.4689	5208.4149	---	PASS
		5240	16.980	5231.4189	5248.3989	---	PASS
		5260	16.943	5251.4505	5268.3935	---	PASS
		5280	16.843	5271.5589	5288.4019	---	PASS
		5320	16.907	5311.5191	5328.4261	---	PASS
		5500	16.955	5491.4828	5508.4378	---	PASS
		5580	17.050	5571.3664	5588.4164	---	PASS
		5700	17.060	5691.4176	5708.4776	---	PASS
		5745	17.059	5736.4135	5753.4725	---	PASS
		5785	16.915	5776.4815	5793.3965	---	PASS
		5825	17.049	5816.3669	5833.4159	---	PASS
11N20SISO	Ant1	5180	17.968	5171.0183	5188.9863	---	PASS
		5200	17.998	5191.0018	5208.9998	---	PASS
		5240	17.943	5230.9680	5248.9110	---	PASS
		5260	17.982	5250.9952	5268.9772	---	PASS
		5280	17.968	5270.9868	5288.9548	---	PASS
		5320	17.907	5311.0139	5328.9209	---	PASS
		5500	17.906	5491.0256	5508.9316	---	PASS
		5580	17.955	5570.9404	5588.8954	---	PASS
		5700	18.031	5690.9305	5708.9615	---	PASS
		5745	18.048	5735.9295	5753.9775	---	PASS
		5785	18.012	5775.9652	5793.9772	---	PASS
		5825	18.005	5815.9230	5833.9280	---	PASS
11AC40SISO	Ant1	5190	36.463	5171.8381	5208.3011	---	PASS
		5230	36.550	5211.6852	5248.2352	---	PASS
		5270	36.590	5251.7204	5288.3104	---	PASS
		5310	36.446	5291.7709	5328.2169	---	PASS
		5510	36.546	5491.7546	5528.3006	---	PASS
		5550	36.496	5531.7555	5568.2515	---	PASS
		5670	36.698	5651.5515	5688.2495	---	PASS
		5755	36.751	5736.6975	5773.4485	---	PASS
11AC80SISO	Ant1	5795	36.653	5776.6485	5813.3015	---	PASS
		5210	75.873	5172.1441	5248.0171	---	PASS
		5290	76.034	5251.9418	5327.9758	---	PASS
		5530	76.095	5492.0815	5568.1765	---	PASS
		5610	76.166	5571.7371	5647.9031	---	PASS
		5775	76.372	5736.9634	5813.3354	---	PASS

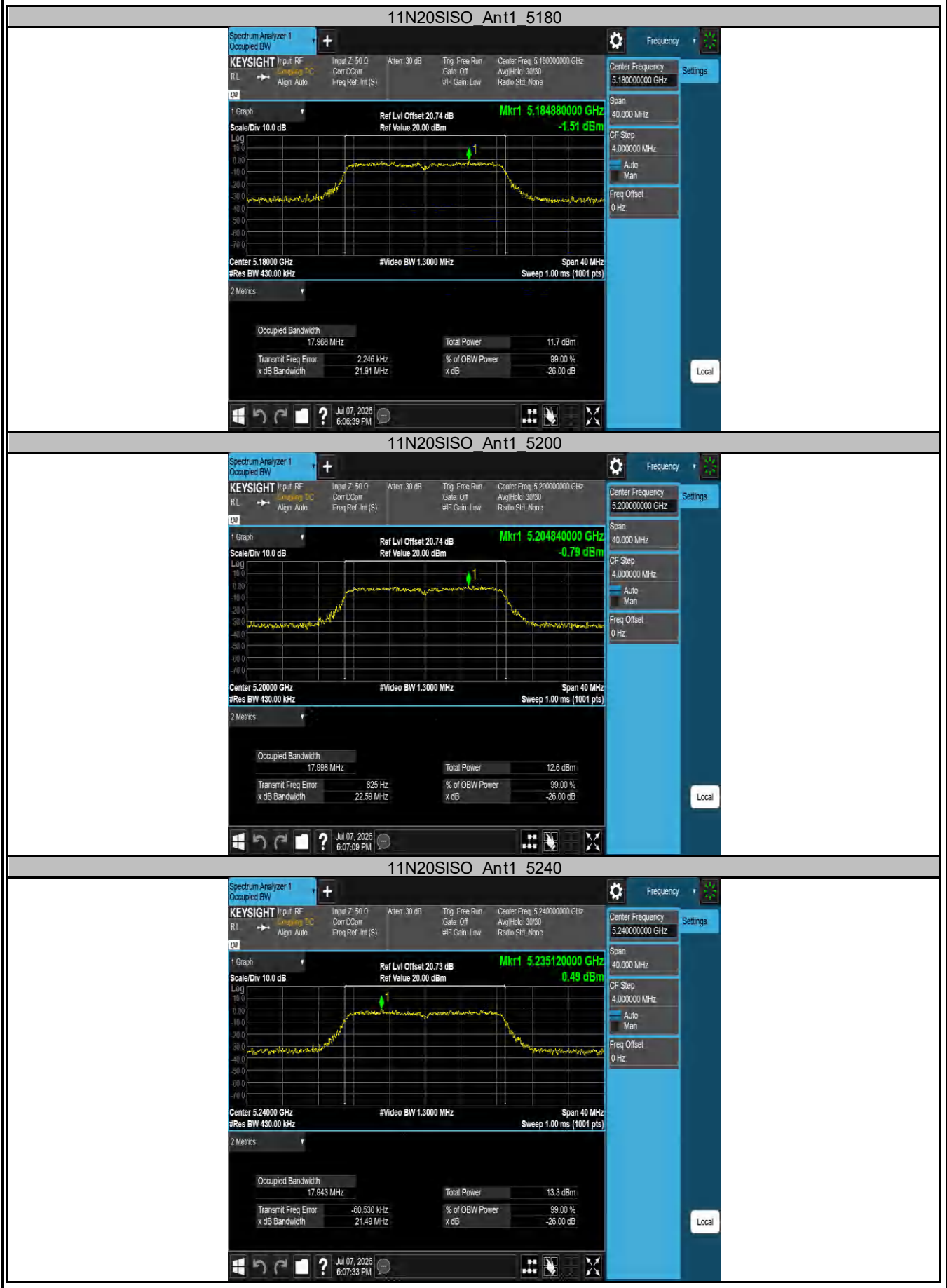
Test Graphs







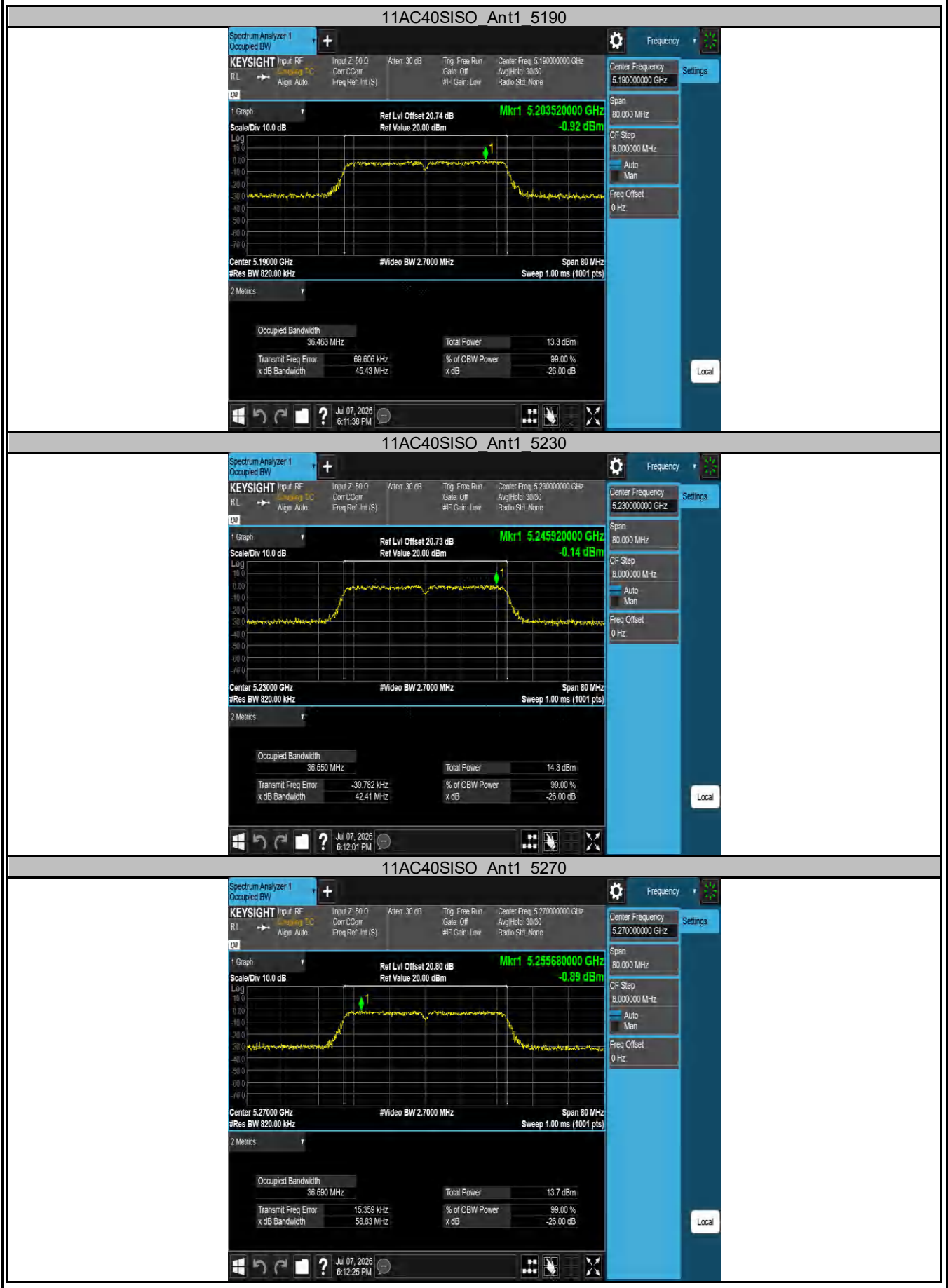




















Appendix A.3: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.480	5736.720	5753.200	0.5	PASS
		5785	16.440	5776.760	5793.200	0.5	PASS
		5825	16.520	5816.680	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.720	5736.120	5753.840	0.5	PASS
		5785	17.640	5776.120	5793.760	0.5	PASS
		5825	17.760	5816.080	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.720	5812.760	0.5	PASS

Test Graphs

11A Ant1 5745



11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



11AC40SISO Ant1 5755



11AC40SISO Ant1 5795



11AC80SISO Ant1 5775



Appendix A.4: Test Results of Maximum Output Power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	16.93	≤23.98	PASS
		5200	17.11	≤23.98	PASS
		5240	17.54	≤23.98	PASS
		5260	17.31	≤23.98	PASS
		5280	17.26	≤23.98	PASS
		5320	15.01	≤23.98	PASS
		5500	15.42	≤23.98	PASS
		5580	15.91	≤23.98	PASS
		5700	13.22	≤23.98	PASS
		5745	13.56	≤30.00	PASS
		5785	14.64	≤30.00	PASS
11N20SISO	Ant1	5825	14.32	≤30.00	PASS
		5180	16.24	≤23.98	PASS
		5200	16.69	≤23.98	PASS
		5240	17.28	≤23.98	PASS
		5260	17.05	≤23.98	PASS
		5280	17.04	≤23.98	PASS
		5320	14.54	≤23.98	PASS
		5500	13.90	≤23.98	PASS
		5580	15.79	≤23.98	PASS
		5700	12.21	≤23.98	PASS
		5745	13.42	≤30.00	PASS
11N40SISO	Ant1	5785	14.51	≤30.00	PASS
		5825	14.19	≤30.00	PASS
		5190	13.91	≤23.98	PASS
		5230	17.20	≤23.98	PASS
		5270	17.05	≤23.98	PASS
		5310	10.67	≤23.98	PASS
		5510	10.97	≤23.98	PASS
		5550	16.08	≤23.98	PASS
		5670	13.24	≤23.98	PASS
		5755	13.67	≤30.00	PASS
		5795	14.54	≤30.00	PASS
11AC20SISO	Ant1	5180	16.12	≤23.98	PASS
		5200	16.60	≤23.98	PASS
		5240	17.20	≤23.98	PASS
		5260	16.97	≤23.98	PASS
		5280	16.96	≤23.98	PASS
		5320	14.33	≤23.98	PASS
		5500	13.83	≤23.98	PASS
		5580	15.75	≤23.98	PASS
		5700	12.16	≤23.98	PASS
		5745	13.81	≤30.00	PASS
		5785	14.71	≤30.00	PASS
11AC40SISO	Ant1	5825	14.28	≤30.00	PASS
		5190	13.91	≤23.98	PASS
		5230	17.20	≤23.98	PASS
		5270	17.04	≤23.98	PASS
		5310	10.62	≤23.98	PASS
		5510	10.89	≤23.98	PASS
		5550	16.02	≤23.98	PASS
		5670	13.23	≤23.98	PASS
		5755	13.65	≤30.00	PASS
		5795	14.50	≤30.00	PASS
11AC80SISO	Ant1	5210	12.85	≤23.98	PASS
		5290	9.62	≤23.98	PASS
		5530	10.01	≤23.98	PASS

		5610	14.79	≤23.98	PASS
		5775	13.88	≤30.00	PASS

U-NII 1: Max. e.i.r.p.= 17.54dBm+2.50dBi= 20.04dBm, which is less than 22.29dBm (10 dBm + 10 logB, dBm)

U-NII 2: Max. e.i.r.p.= 17.31dBm+2.50dBi= 19.81dBm, which is less than 29.26dBm (17 dBm + 10 logB, dBm)

Note:

1) The Duty Cycle Factor is compensated in the graph.

2) Antenna gain(G): max. 2.50dBi for U-NII-1 & U-NII-2A, max. 3.58dBi for U-NII-2C; e.i.r.p.=P(Conducted power)+ G

3) B is the 99% emission bandwidth in MHz

Appendix A.5: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.01	≤11.00	PASS
		5200	4.29	≤11.00	PASS
		5240	4.77	≤11.00	PASS
		5260	4.34	≤11.00	PASS
		5280	4.30	≤11.00	PASS
		5320	2.01	≤11.00	PASS
		5500	2.84	≤11.00	PASS
		5580	3.86	≤11.00	PASS
		5700	0.91	≤11.00	PASS
		5745	-1.42	≤30.00	PASS
		5785	-0.19	≤30.00	PASS
		5825	-0.87	≤30.00	PASS
11N20SISO	Ant1	5180	3.20	≤11.00	PASS
		5200	3.97	≤11.00	PASS
		5240	4.17	≤11.00	PASS
		5260	4.11	≤11.00	PASS
		5280	3.98	≤11.00	PASS
		5320	1.23	≤11.00	PASS
		5500	1.19	≤11.00	PASS
		5580	3.21	≤11.00	PASS
		5700	-0.31	≤11.00	PASS
		5745	-1.59	≤30.00	PASS
		5785	-0.69	≤30.00	PASS
		5825	-1.24	≤30.00	PASS
11N40SISO	Ant1	5190	-1.28	≤11.00	PASS
		5230	1.43	≤11.00	PASS
		5270	1.14	≤11.00	PASS
		5310	-5.57	≤11.00	PASS
		5510	-4.97	≤11.00	PASS
		5550	0.67	≤11.00	PASS
		5670	-1.72	≤11.00	PASS
		5755	-4.05	≤30.00	PASS
		5795	-3.62	≤30.00	PASS
		5825	-1.22	≤30.00	PASS
11AC20SISO	Ant1	5180	3.56	≤11.00	PASS
		5200	4.21	≤11.00	PASS
		5240	4.38	≤11.00	PASS
		5260	4.18	≤11.00	PASS
		5280	3.98	≤11.00	PASS
		5320	1.30	≤11.00	PASS
		5500	0.82	≤11.00	PASS
		5580	3.32	≤11.00	PASS
		5700	-0.53	≤11.00	PASS
		5745	-1.44	≤30.00	PASS
		5785	-0.93	≤30.00	PASS
		5825	-1.22	≤30.00	PASS
11AC80SISO	Ant1	5210	-4.24	≤11.00	PASS
		5290	-8.40	≤11.00	PASS
		5530	-7.07	≤11.00	PASS
		5610	-1.91	≤11.00	PASS
		5775	-5.67	≤30.00	PASS

U-NII 1: Max. e.i.r.p. spectral density= 4.77dBm+2.50dBi= 7.27dBm/MHz, which is less than 10dBm/MHz

Note:

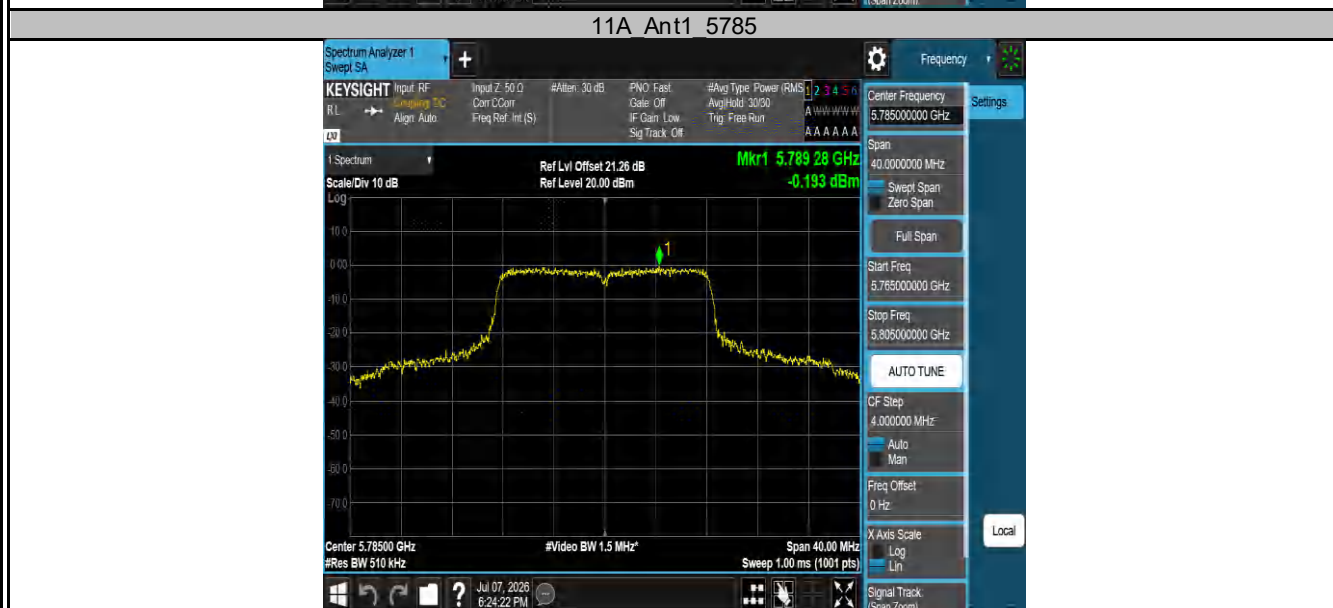
- 1) The Result and Limit Unit is dBm/500 kHz in the band 5.725-5.85 GHz.
- 2) The Duty Cycle Factor and RBW Factor is compensated in the graph.
- 3) Antenna gain(G): max. 2.50dBi for U-NII Band 1.

Test Graphs









11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N20SISO Ant1 5260



11N20SISO Ant1 5280



11N20SISO Ant1 5320



11N20SISO Ant1 5500



11N20SISO Ant1 5580



11N20SISO Ant1 5700



11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825







11N40SISO Ant1 5670



11N40SISO Ant1 5755



11N40SISO Ant1 5795















Appendix A.6: Test Results of Frequency Stability

Test Result

TestMode	Antenna	Channel	Voltage					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11AC20SISO	Ant1	5180	NV	NT	-45600.00	-8.803089	20	PASS
			LV	NT	-46200.00	-8.918919	20	PASS
			HV	NT	-46800.00	-9.034749	20	PASS
		5200	NV	NT	-47700.00	-9.173077	20	PASS
			LV	NT	-47700.00	-9.173077	20	PASS
			HV	NT	-47400.00	-9.115385	20	PASS
		5240	NV	NT	-45900.00	-8.759542	20	PASS
			LV	NT	-44700.00	-8.530534	20	PASS
			HV	NT	-43500.00	-8.301527	20	PASS
		5260	NV	NT	-43200.00	-8.212928	20	PASS
			LV	NT	-39900.00	-7.585551	20	PASS
			HV	NT	-38100.00	-7.243346	20	PASS
		5280	NV	NT	-41100.00	-7.784091	20	PASS
			LV	NT	-35700.00	-6.761364	20	PASS
			HV	NT	-35700.00	-6.761364	20	PASS
		5320	NV	NT	-36900.00	-6.936090	20	PASS
			LV	NT	-36000.00	-6.766917	20	PASS
			HV	NT	-36000.00	-6.766917	20	PASS
		5500	NV	NT	-37500.00	-6.818182	20	PASS
			LV	NT	-41100.00	-7.472727	20	PASS
			HV	NT	-42000.00	-7.636364	20	PASS
		5580	NV	NT	-40500.00	-7.258065	20	PASS
			LV	NT	-42600.00	-7.634409	20	PASS
			HV	NT	-42900.00	-7.688172	20	PASS
		5700	NV	NT	-43800.00	-7.684211	20	PASS
			LV	NT	-44100.00	-7.736842	20	PASS
			HV	NT	-43800.00	-7.684211	20	PASS
		5745	NV	NT	-44700.00	-7.780679	20	PASS
			LV	NT	-43800.00	-7.624021	20	PASS
			HV	NT	-43800.00	-7.624021	20	PASS
		5785	NV	NT	-44400.00	-7.675022	20	PASS
			LV	NT	-43500.00	-7.519447	20	PASS
			HV	NT	-43200.00	-7.467589	20	PASS
		5825	NV	NT	-44400.00	-7.622318	20	PASS
			LV	NT	-43500.00	-7.467811	20	PASS
			HV	NT	-43200.00	-7.416309	20	PASS

TestMode	Antenna	Channel	Temperature					Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
11AC20SISO	Ant1	5180	NV	0	-47100.00	-9.092664	20	PASS
			NV	40	-47100.00	-9.092664	20	PASS
		5200	NV	0	-47100.00	-9.057692	20	PASS
			NV	40	-46800.00	-9.000000	20	PASS
		5240	NV	0	-42300.00	-8.072519	20	PASS
			NV	40	-40500.00	-7.729008	20	PASS
		5260	NV	0	-37500.00	-7.129278	20	PASS
			NV	40	-36900.00	-7.015209	20	PASS
		5280	NV	0	-35700.00	-6.761364	20	PASS
			NV	40	-36000.00	-6.818182	20	PASS
		5320	NV	0	-36300.00	-6.823308	20	PASS
			NV	40	-36600.00	-6.879699	20	PASS
		5500	NV	0	-42300.00	-7.690909	20	PASS
			NV	40	-42300.00	-7.690909	20	PASS
		5580	NV	0	-42900.00	-7.688172	20	PASS
			NV	40	-42900.00	-7.688172	20	PASS

		5700	NV	0	-43500.00	-7.631579	20	PASS
			NV	40	-43500.00	-7.631579	20	PASS
		5745	NV	0	-43200.00	-7.519582	20	PASS
			NV	40	-43500.00	-7.571802	20	PASS
		5785	NV	0	-43200.00	-7.467589	20	PASS
			NV	40	-43200.00	-7.467589	20	PASS
		5825	NV	0	-43200.00	-7.416309	20	PASS
			NV	40	-43200.00	-7.416309	20	PASS

Appendix A.7: Test Results of Radiated Spurious Emissions

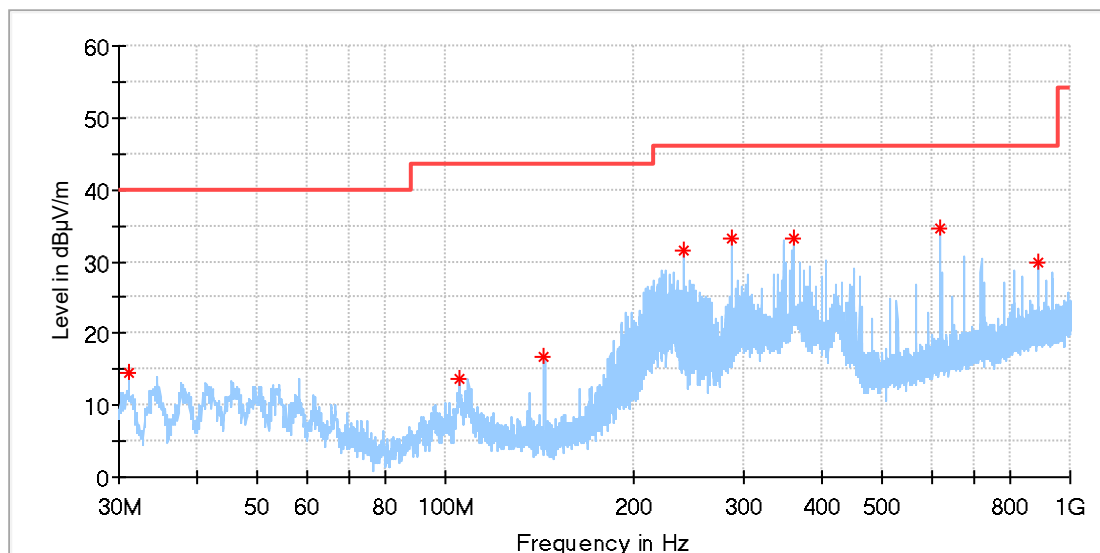
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Robot Vacuum Cleaner
Model:	RB05-B
Test Mode:	WIFI 5G_11a_Ch48
Order No/Sample No:	27231945/A004277333-001
Test Voltage:	Battery
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.407
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

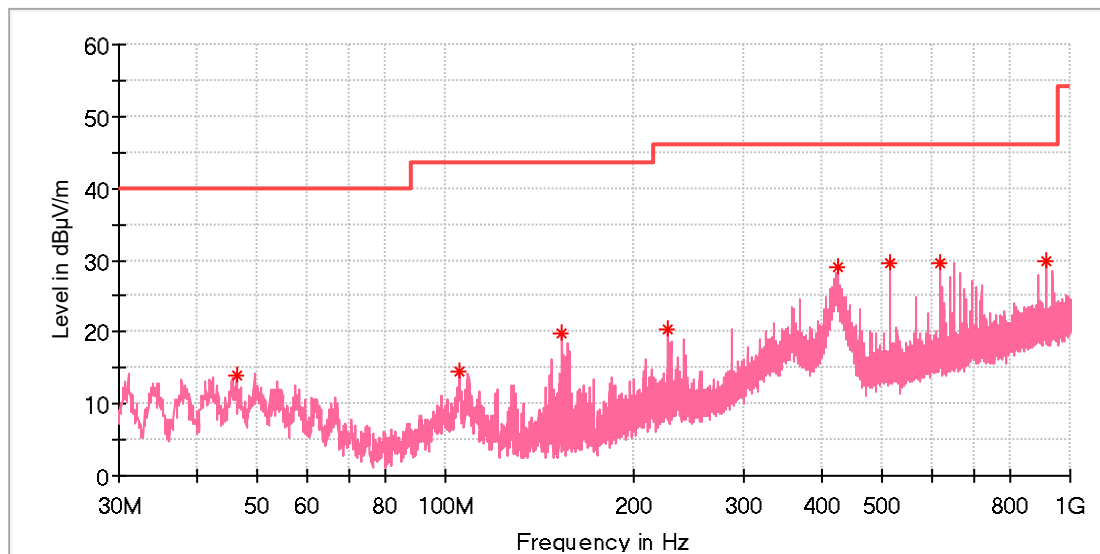
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
31.185556	14.59	40.00	25.41	100.0	H	258.0	-22.8
105.282778	13.70	43.50	29.80	100.0	H	111.0	-18.9
143.975000	16.87	43.50	26.63	100.0	H	54.0	-22.4
240.005000	31.63	46.00	14.38	100.0	H	226.0	-17.7
288.020000	33.18	46.00	12.82	100.0	H	0.0	-16.6
361.901667	33.16	46.00	12.84	100.0	H	358.0	-14.6
621.053333	34.71	46.00	11.29	100.0	H	79.0	-9.3
890.982778	29.91	46.00	16.09	100.0	H	185.0	-4.9

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Robot Vacuum Cleaner
Model: RB05-B
Test Mode: WIFI 5G_11a_Ch48
Order No/Sample No: 27231945/A004277333-001
Test Voltage: Battery
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.407
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.274444	14.04	40.00	25.96	100.0	V	342.0	-18.7
105.228889	14.43	43.50	29.07	100.0	V	357.0	-18.9
153.836667	19.88	43.50	23.62	100.0	V	295.0	-22.1
226.694444	20.51	46.00	25.49	100.0	V	145.0	-18.3
425.382778	28.90	46.00	17.10	100.0	V	145.0	-13.2
513.006111	29.48	46.00	16.52	100.0	V	66.0	-11.6
621.053333	29.68	46.00	16.32	100.0	V	169.0	-9.3
912.053333	29.90	46.00	16.10	100.0	V	264.0	-4.7

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
--	--	--	--	--	--	--	--

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	

[illegible]