



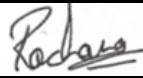
FCC PART 90
ISED RSS-111, ISSUE 5, SEPTEMBER 2014
TEST REPORT

For

Cisco Systems, Inc.

FCC: 125 West Tasman Drive
San Jose, CA 95134-1706
IC: 170 W. Tasman Drive, Building P & 7
San Jose, CA 95134, United States of America (Excluding The State of Alaska)

FCC ID: LDKIW9165E
IC: 2461A-IW9165E

Report Type: FCC: Class 2 Permissive Change ISED: Class 3 Permissive Change	Product Type: Wi-Fi 6E Outdoor Access Point
Prepared By:	Rachana Khanduri Project Engineer 
Report Number:	R2603043-90
Report Date:	2026-03-27
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government.

* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*" (Rev.3)

TABLE OF CONTENTS

1	GENERAL INFORMATION	5
1.1	PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....	5
1.2	MECHANICAL DESCRIPTION	5
1.3	OBJECTIVE.....	5
1.4	RELATED SUBMITTAL(S)/GRANT(S).....	5
1.5	TEST METHODOLOGY	5
1.6	MEASUREMENT UNCERTAINTY.....	6
1.7	TEST FACILITY REGISTRATIONS	6
1.8	TEST FACILITY ACCREDITATIONS.....	7
2	SYSTEM TEST CONFIGURATION	11
2.1	JUSTIFICATION.....	11
2.2	EUT EXERCISE SOFTWARE.....	11
2.3	DUTY CYCLE CORRECTION FACTOR.....	12
2.4	EQUIPMENT MODIFICATIONS	14
2.5	LOCAL SUPPORT EQUIPMENT LIST AND DETAILS	14
2.6	REMOTE SUPPORT EQUIPMENT LIST AND DETAILS.....	14
2.7	INTERFACE PORTS AND CABLING	14
3	SUMMARY OF TEST RESULTS.....	15
4	FCC §1.1307(B) (1), §2.1091 & §90.223 & ISDC RSS-102 - RF EXPOSURE	16
4.1	APPLICABLE STANDARDS	16
4.2	MPE PREDICTION	17
4.2	MPE PREDICTION	17
4.3	RF EXPOSURE EVALUATION EXEMPTION FOR FCC AND IC	18
4.4	CONCLUSION	18
5	FCC §2.1046, §90.205(P) & RSS-111 § 5.3 - RF OUTPUT POWER.....	19
5.1	APPLICABLE STANDARDS	19
5.2	TEST PROCEDURE	20
5.3	TEST SETUP BLOCK DIAGRAM.....	21
5.4	TEST EQUIPMENT LIST AND DETAILS	21
5.5	TEST ENVIRONMENTAL CONDITIONS.....	21
5.6	TEST RESULTS	22
6	FCC §2.1046, §90.205(P), §90.1215, RSS-111 § 5.3 - POWER SPECTRAL DENSITY	30
6.1	APPLICABLE STANDARDS	30
6.2	TEST PROCEDURE	30
6.3	TEST SETUP BLOCK DIAGRAM.....	31
6.4	TEST EQUIPMENT LIST AND DETAILS	31
6.5	TEST ENVIRONMENTAL CONDITIONS.....	31
6.6	TEST RESULTS	32
7	FCC §90.1215 & RSS-111 § 5.4 – TRANSMITTER PEAK TO AVERAGE RATIO.....	40
7.1	APPLICABLE STANDARDS	40
7.2	TEST PROCEDURE	40
7.3	TEST SETUP BLOCK DIAGRAM.....	40
7.4	TEST EQUIPMENT LIST AND DETAILS	40
7.5	TEST ENVIRONMENTAL CONDITIONS.....	41
7.6	TEST RESULTS	42
8	FCC §2.1049, §90.209, RSS-111 § 5.3 - OCCUPIED BANDWIDTH	50
8.1	APPLICABLE STANDARDS	51
8.2	TEST PROCEDURE	51
8.3	TEST SETUP BLOCK DIAGRAM.....	51
8.4	TEST EQUIPMENT LIST AND DETAILS	51
8.5	TEST ENVIRONMENTAL CONDITIONS.....	52

8.6 TEST RESULTS 52

9 FCC §2.1051, §90.210 & ISEDC RSS-111 §5.5 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS54

9.1 APPLICABLE STANDARDS 54

9.2 TEST PROCEDURE 55

9.3 TEST SETUP BLOCK DIAGRAM..... 56

9.4 TEST ENVIRONMENTAL CONDITIONS 56

9.5 TEST RESULTS 56

10 FCC §2.1055, §90.213, RSS-111 § 5.2 - FREQUENCY TOLERANCE.....67

10.1 APPLICABLE STANDARD 67

10.2 TEST PROCEDURE 67

10.3 TEST SETUP BLOCK DIAGRAM..... 69

10.4 TEST EQUIPMENT LIST AND DETAILS 69

10.5 TEST ENVIRONMENTAL CONDITIONS 69

10.6 TEST RESULTS 70

11 APPENDIX A (NORMATIVE) – A2LA ELECTRICAL TESTING CERTIFICATE.....81

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2603043-90	Permissive Change	2026-03-27

1 General Information

1.1 Product Description for Equipment under Test (EUT)

This test report was prepared on behalf of *Cisco Systems, Inc.*, and their product model: *IW9165E-B (USA)*, *IW9165E-A (Canada)*, FCC ID: LDKIW9165E, IC: 2461A-IW9165E (HVIN: IW9165E-A), or the “EUT” as referred to in this report. It is a Wi-Fi 6E Outdoor Access Point.

1.2 Mechanical Description

Dimensions (mm): 200 mm (L) x 190 mm (W) x 80 mm (H), Weight = 1.95kg.

Serial Number: FVH2948A00P assigned by manufacturer.

The data gathered was from a production sample provided by Cisco Systems, Inc.

1.3 Objective

This report was prepared on behalf *Cisco Systems, Inc.* in accordance with Part 90 Subparts I and Y and Part 2 Subpart J of the Federal Communication Commission’s rules and with ISEDC RSS-111 Issue 5, September 2014 in order to add 802.11n10 mode at high power setting.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

All tests and measurements indicated in this document were performed in accordance with ANSI C63.26-2015 American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 90 Subparts I and Y and Part 2 Subpart J and with ISEDC RSS-111 Issue 5, September 2014.

1.6 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.57 dB
Unwanted Emissions, conducted	±1.57dB
All emissions, radiated	±4.0 dB
Temperature	±2 ° C
Humidity	±5 %
DC and low frequency voltages	±1.0 %
Time	±2 %
Duty Cycle	±3 %

1.7 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL's test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Innovation, Science, and Economic Development Canada (ISED) a under Registration Numbers: 3062A.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

BACL's test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0428.

1.8 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2017 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2017 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report.

BACL's ISO/IEC 17025:2017 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio/Wireless, RF Exposure, Safety, and Wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include, but are not limited to: Central Office Telecommunications Equipment [including NEBS – Network Equipment Building Systems], Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial Equipment, Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, Railway Equipment, Marine Equipment, and Energy Efficient Lighting. Additionally, BACL offers comprehensive test capabilities for both Unlicensed and Licensed Wireless and RF Devices, per the requirements of the FCC (USA), ISED Canada (Canada), the EU/EEA/EFTA Nations (per the ETSI Standards applicable under the Radio Equipment Directive), Singapore, MIC (Japan), South Korea, Vietnam, and Taiwan ROC.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):
 - 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - 3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Innovation, Science and Economic Development Canada):
 - 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
 - 2 All Scope 2-Licensed Personal Mobile Radio Services;
 - 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
 - 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
 - 5 All Scope 5-Licensed Fixed Microwave Radio Services
 - 6 All Broadcasting Equipment Technical Standards (BETS) in the Category I Equipment Standards List.
 7. RSS-HAC Radio Scope 6 Hearing Aid Compatibility and Volume Control
- For Singapore (Info-Comm Media Development Authority (IMDA)):
 - 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase I
 2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase II
- For the Hong Kong Special Administrative Region & (Office of the Communications Authority-OFCA) – APEC Tel MRA- Phase I and Phase II:
 - 1 Radio Equipment, per KHCA 10XX-series Specifications; HKCA 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1010, 1015, 1016, 1019, 1020, 1022, 1026, 1033, 1034, 1035, 1036, 1037, 1039, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1052, 1053, 1054, 1056, 1057, 1061, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1080, 1081
 - 2 GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications; HKCA 1218, 1223, 1224, 1225, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1277, 1281, 1282, 1283

- 3 Fixed Network Equipment, per HKCA 20XX-series Specifications; HKCA 2001, 2011, 2014, 2015, 2017, 2026, 2027, 2028, 2029, 2030, 2031

- For Japan:

- 1 MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 - Terminal Equipment for the Purpose of Calls;
 - All Scope A2 - Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Appliances:
 - for Clothes Washers (ver. 8.1)
 - for Residential Dishwashers (ver. 6.0)
 - for Residential Refrigerators and/or Freezers (ver. 5.0)
- 2 Commercial Food Service Equipment:
 - for Commercial Dishwashers (ver. 3.0)
 - for Commercial Ice Machines (ver. 3.0)
- 3 Data Center Equipment:
 - for Large Network Equipment (ver. 1.1)
- 4 Electronics and Office Equipment:
 - for Audio/Video Equipment (ver. 3.0)
 - for Computers (ver. 8.0)
 - for Data Center Storage (ver. 2.1)
 - for Displays (ver. 8.0)
 - for Enterprise Servers (ver. 4.0)
 - for Imaging Equipment (ver. 3.1)
 - for Set-top Boxes & Cable Boxes (ver. 5.1)
 - for Small Network Equipment (ver. 1.0)
 - for Telephony (ver. 3.0)
 - for Televisions (ver. 9.0), Title 10 Chapter II CFR Part 430 Subpart B –Appendix BB, Title 10 Chapter II CFR Part 430 Subpart B –Appendix DD
- 3 Lighting and Fans
 - for Decorative Light Strings (ver. 1.5)
 - for Downlights (ver. 1.0)
 - for Lamps (Light Bulbs)(ver. 2.1)
 - for Luminaires (including sub-components) (ver. 2.2)
 - for Residential Ceiling Fans (ver. 4.0)
 - for Residential Ventilating Fans (ver. 4.1)
- 4 Other
 - for Residential Ceiling Fans (ver. 4.0)
 - for Electric Vehicle Supply Equipment (ver. 1.2)(Electric Vehicle Supply Equipment Final Test Method for DC-output EVSE Rev March 2021)

- for Water Coolers (ver. 3.0)
- for Smart Home Energy Management Systems (ver. 1.1)

D- A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

1. For the USA (Federal Communications Commission), as a Telecommunications Certification Body (TCB):
 - o a. All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
 - o b. All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
 - o c. All Telephone Terminal Equipment within FCC Scope C.
2. Canada (ISED Canada) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II:
 - o a. Phase I Designation Letter
 - o b. Phase II ISED Canada recognition as a Product Certification Body for unlicensed wireless devices, licensed radios, radars, etc.:
3. For Singapore (InfoComm Media Development Authority (IMDA)) APEC Tel MRA -Phase I & Phase II:
 - o a. All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase I
 - o b. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2 IMDA Phase II
4. For the Hong Kong Special Administrative Region & (Office of the Communications Authority – OFCA) – APEC Tel MRA -Phase I & Phase II:
 - o a. NIST Phase I Scope Recognition Letter from OFCA for BACL –US0057
 - o b. OFCA Phase II Designation Letter
5. For Japan (Ministry of Communications):
 - o a. NIST Japan Recognition
 - o b. MIC Telecommunication Business Law (Terminal Equipment):
 1. All Scope A1 – Terminal Equipment for the Purpose of Calls;
 2. All Scope A2 – Other Terminal Equipment
 - o c. Radio Law (Radio Equipment):
 1. All Scope B1 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 2. All Scope B2 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 3. All Scope B3 – Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law
 - o d. Japan VCCI – Voluntary Control Council for Interference US-Japan Telecom Treaty (VCCI Side Letter)
 1. VCCI Certificate
 - o d. Japan Registered Certification Body
 1. RCB Recognition Letter
6. European Union:
 1. Radio Equipment Directive [RED] 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 2. EMC Directive [EMCD] 2014/30/EU US-EU EMC & Telecom MRA CAB (NB):
7. Australia ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I:
 1. Phase I Designation Letter

8. Chinese Taipei (Republic of China – Taiwan):
 1. NCC (National Communications Commission) APEC Tel MRA -Phase I
9. Republic of Korea (Ministry of Communications – Radio Research Laboratory) APEC Tel MRA - Phase I:
 1. NIST Phase I Scope Update Notification Letter from Korea for BACL
10. Vietnam APEC Tel MRA -Phase I (page 13)
 1. Vietnam (MIC) NIST Phase I Scope
11. Indonesia SDPPI (page 6)
 1. Phase I Listing
12. Israel Phase I
 1. NIST Phase I Scope Update Recognition Letter from Israel for BACL –US0057
13. UK Radio and EMC NIST Designation Letters
UK website: <https://www.gov.uk/uk-market-conformity-assessment-bodies/bay-area-compliance-laboratories-corp-bacl>
 1. Electromagnetic Compatibility Regulations (SI 2016/1091)
https://assets.publishing.service.gov.uk/media/5fe1e344e90e07452fce4e5a/AB_1313_BACL_UK EMC_Regs_NIST_Designation_Extended.pdf
 2. Radio Equipment Regulations 2017 (SI 2017/1206)
https://assets.publishing.service.gov.uk/media/5fe1e351e90e074525bf7be6/AB_1313_BACL_UK_Radio_Regs_NIST_Designation_Extended.pdf
14. IFT Mexico Phase I
 1. NIST Phase I New Recognition Letter from Mexico for BACL – US0057
15. Taiwan (BSMI) Phase 1 Designation Letter and designation form.
 1. NIST Phase I Scope Update Designation Letter to BSMI for BACL – US0057
 2. NIST Phase I Scope Update Designation Form to BSMI for BACL – US0057

2 System Test Configuration

2.1 Justification

The EUT was configured for testing according to ANSI C63.26-2015.

2.2 EUT Exercise Software

The test software used was Putty. The software is compliant with the standard requirements being tested against.

Please refer to the following power setting table.

Antenna Gain (dBi)	Radio	Frequency (MHz)	MIMO Power Setting Antenna A & B	SISO Power Setting Antenna A	SISO Power Setting Antenna B
15	1	4950	21	26	26
		4955	21	26	26
		4980	21	26	26
	2	4950	20	26	26
		4955	20	26	26
		4980	20	26	26
13	1	4950	25	30	30
		4955	25	30	30
		4980	25	30	30
≤ 8	1	4950	30	30	30
		4955	30	30	30
		4980	30	30	30

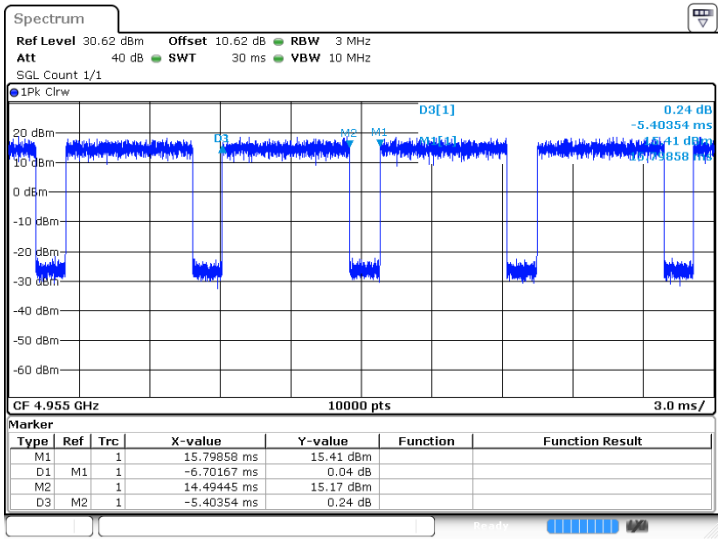
*Data rates tested:
802.11n10: MCS0

2.3 Duty Cycle Correction Factor

Radio	Radio	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11n10	1	5.404	6.702	80.633	0.935
	2	5.365	6.619	81.055	0.912

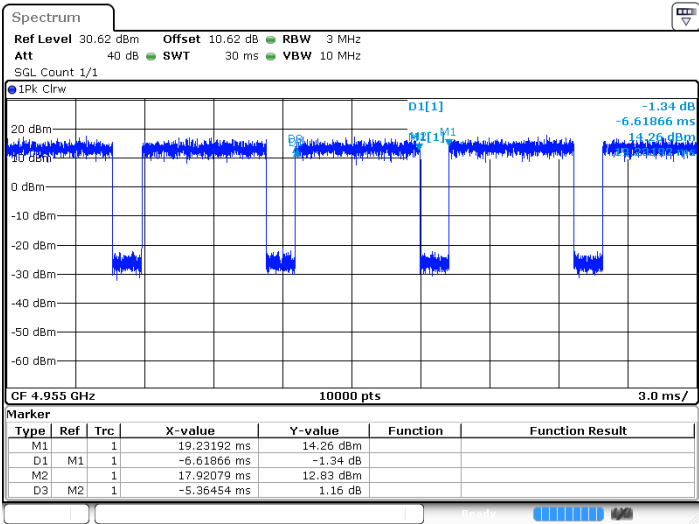
Note: $Duty\ Cycle = On\ Time\ (ms) / Period\ (ms)$
 $Duty\ Cycle\ Correction\ Factor = 10 * log(1 / duty\ cycle)$

Radio 1



Project Number: R2603043, Tester Name: Rachana Khanduri
Date: 10.MAR.2026 08:47:21

Radio 2



Project Number: R2603043; Tester Name: Rachana Khanduri
Date: 10.MAR.2026 12:25:24

2.4 Equipment Modifications

No modifications were made to the EUT.

2.5 Local Support Equipment List and Details

Manufacturer	Descriptions	Models
Dell	Laptop	Latitude 5401

2.6 Remote Support Equipment List and Details

Manufacturer	Descriptions	Models
Mean Well Enterprises Co. Ltd.	Power Supply	GSM40A48-CIS

2.7 Interface Ports and Cabling

Cable Description	Length (m)	From	To
Power Cable	<2	EUT	AC/DC Power Adaptor
Ethernet To USBC Cable	<2	EUT	Laptop/Computer

3 Summary of Test Results

FCC/IC Rules	Description of Tests	Results
FCC §1.1307(b)(1), §2.1091, §90.223, RSS-102	RF Exposure	Compliant
FCC §2.1046, §90.205(p), §90.1215, RSS-111 § 5.3	RF Output Power	Compliant
FCC §90.1215, RSS-111 § 5.4	Transmitter Peak to Average Ratio	Compliant
FCC §2.1046, §90.205(p), §90.1215, RSS-111 § 5.3	Power Spectral Density	Compliant
FCC §2.1049, §90.209, RSS-111 § 5.3	Occupied Bandwidth	Compliant
FCC §2.1051, §90.210, RSS-111 § 5.5	Spurious Emissions at Antenna Terminals	Compliant
FCC §2.1051, §90.210, RSS-111 § 5.5	Emission Mask	Compliant
FCC §2.1055, §90.213 RSS-111 § 5.2	Frequency Tolerance	Compliant

BACL is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Information provided by the customer, e.g., antenna gain, can affect the validity of results.

4 FCC §1.1307(b) (1), §2.1091 & §90.223 & ISEDC RSS-102 - RF Exposure

4.1 Applicable Standards

FCC §2.1091, (a) Requirements of this section are a consequence of Commission responsibilities under the National Environmental Policy Act to evaluate the environmental significance of its actions. See subpart I of part 1 of this chapter, in particular §1.1307(b).

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-3.0	614	1.63	*(100)	<30
3.0-30	824/f	2.19/f	*(900/f ²)	<30
30-300	27.5	0.073	1.0	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

Note: f = frequency in MHz

* = Plane-wave equivalent power density

According to ISED RSS-102:

6.6 Field reference level exposure exemption limits

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

- below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5} W$ (adjusted for tune-up tolerance), where f is in MHz
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} W$ (adjusted for tune-up tolerance), where f is in MHz
- at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

4.2 MPE Prediction

Predication of MPE limit at a given distance, Equation from OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

4.3 RF exposure evaluation exemption for FCC and IC

FCC:

<u>Maximum output power at antenna input terminal (dBm):</u>	<u>12.79</u>
<u>Maximum tune up power at antenna input terminal (dBm):</u>	<u>13.79</u>
<u>Maximum tune up power at antenna input terminal (mW):</u>	<u>23.93</u>
<u>Prediction frequency (MHz):</u>	<u>4980</u>
<u>Antenna Gain, maximum (dBi):</u>	<u>15</u>
<u>Maximum Antenna Gain (numeric):</u>	<u>31.62</u>
<u>Prediction distance (cm):</u>	<u>40</u>
<u>Power density of prediction frequency at 40 cm (mW/cm²):</u>	<u>0.0377</u>
<u>FCC MPE limit for uncontrolled exposure at prediction frequency (mW/cm²):</u>	<u>1.0</u>

IC:

Maximum EIRP power = 13.79 dBm + 15 dBi = 28.79 dBm which is lesser than $1.31 \times 10^{-2} f^{0.6834} = 4.41W = 36.44$ dBm.

Simultaneous Transmission Evaluation

Total Power Densities (Percentages) = 5GHz Radio 2 Power Density % + 5GHz Radio 1 Power Density % + BLE Power Density % + 4.9GHz Radio 2

Total Relative Power Densities (Percentages) = $(0.106/1.0) * 100 + (0.197/1.0) * 100 + (0.001/1) * 100 + (0.056/1.0) * 100 = 10.6 \% + 19.7 \% + 1\% + 5.6 \% = 36.9\%$

Note: Above power density percentages are referenced from *Maximum Permissible Exposure Study – Engineering Analysis EDCS#11556830* issued by Cisco Systems, Inc.

4.4 Conclusion

FCC: The device is compliant with the requirement FCC MPE limit for uncontrolled exposure. The maximum power density at the distance of 40 cm is 0.0377 mW/cm². The Limit is 1.0 mW/cm². Therefore, SAR testing for this device is exempted.

IC: The maximum EIRP power of 28.79 dBm is less than calculated 36.44 dBm source-based, time-averaged maximum EIRP exemption limit. Therefore, SAR testing is not required.

5 FCC §2.1046, §90.205(p) & RSS-111 § 5.3 - RF Output Power

5.1 Applicable Standards

FCC §2.1046

FCC §90.205 (p) Limitations on power are specified in § 90.1215.

Channel bandwidth (MHz)	Low power maximum conducted output power (dBm)	High power maximum conducted output power (dBm)
1	7	20
5	14	27
10	17	30
15	18.8	31.8
20	20	33

RSS-111 §5.3

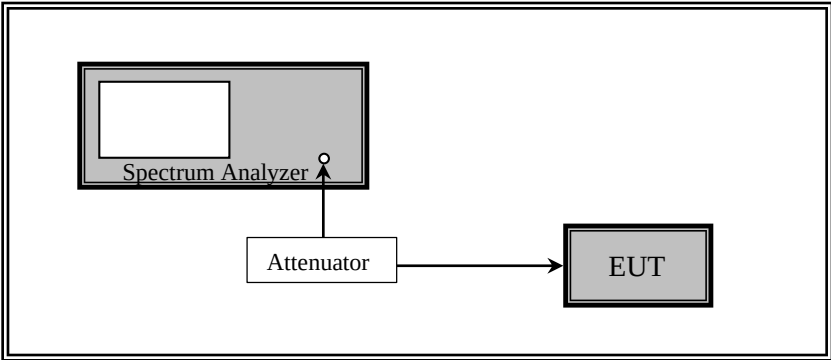
Table 1 — Channel Bandwidth and Power Limits		
Channel Bandwidth (MHz)	Transmitter Power, P (dBm)	
	Low-power Device	High-power Device
1	$P \leq 7$	$7 < P \leq 20$
5	$P \leq 14$	$14 < P \leq 27$
10	$P \leq 17$	$17 < P \leq 30$
15	$P \leq 18.8$	$18.8 < P \leq 31.8$
20	$P \leq 20$	$20 < P \leq 33$

5.2 Test Procedure

ANSI C63.26-2015 section 5.2.4.4.2

- a) Set span to $2 \times$ to $3 \times$ the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ for single sweep (automation-compatible) measurement.
- f) Detector = power averaging (rms).
- g) Set sweep trigger to "free run."
- h) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- j) Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

5.3 Test Setup Block Diagram



5.4 Test Equipment List and Details

BACL No.	Manufacturers	Descriptions	Models	Serial Numbers	Calibration Dates	Calibration Interval
912	Rhode & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2025-08-04	1 year
1585	N/A	SMA 24in RF cable	ST18/SMAm /SMAm/24	245210	2025-09-19	6 months
1541	Pasternack	10dB Attenuator, SMA	PE7395-10	BACL01541A	2026-01-27	1 year

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.

5.5 Test Environmental Conditions

Temperature:	22.4° C
Relative Humidity:	34 %
ATM Pressure:	101.8 kPa

The testing was performed by Rachana Khanduri on 2026-03-10 and 2026-03-11 in the RF Site.

5.6 Test Results

15dBi SISO

Mode	Radio	Freq. (MHz)	Conducted Power Ant A (dBm)	Conducted Power Ant B (dBm)	Corrected Output Power Ant A (dBm)	Corrected Output Power Ant B (dBm)	Limit (dBm)
802.11n10	1	4950	11.54	9.64	12.48	10.58	≤ 24
		4955	11.43	9.70	12.37	10.64	≤ 24
		4980	11.34	10.14	12.28	11.08	≤ 24
	2	4950	11.62	11.21	12.53	12.12	≤ 24
		4955	11.61	11.30	12.52	12.21	≤ 24
		4980	11.88	11.51	12.79	12.42	≤ 24

13dBi SISO

Mode	Radio	Freq. (MHz)	Conducted Power Ant A (dBm)	Conducted Power Ant B (dBm)	Corrected Output Power Ant A (dBm)	Corrected Output Power Ant B (dBm)	Limit (dBm)
802.11n10	1	4950	13.26	11.59	14.20	12.53	≤ 26
		4955	13.33	11.95	14.27	12.89	≤ 26
		4980	13.20	12.28	14.14	13.22	≤ 26

≤8dBi SISO

Mode	Radio	Freq. (MHz)	Conducted Power Ant A (dBm)	Conducted Power Ant B (dBm)	Corrected Output Power Ant A (dBm)	Corrected Output Power Ant B (dBm)	Limit (dBm)
802.11n10	1	4950	13.26	11.59	14.20	12.53	≤ 30
		4955	13.33	11.95	14.27	12.89	≤ 30
		4980	13.20	12.28	14.14	13.22	≤ 30

Note: Corrected Output Power(dBm)=Conducted Power(dBm) + Duty Cycle Correction Factor(dB)

Note: If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density limits should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi.

Note: Device is a high-power device

15dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted Output Power Ant A (dBm)	Conducted Output Power Ant B (dBm)	Total Conducted Output Power (dBm)	Limit (dBm)
802.11n10	1	4950	9.73	8.09	12.00	≤ 24
		4955	9.75	8.24	12.07	≤ 24
		4980	9.69	8.44	12.12	≤ 24
	2	4950	9.53	9.00	12.28	≤ 24
		4955	9.52	8.97	12.26	≤ 24
		4980	9.76	9.20	12.50	≤ 24

13dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted Output Power Ant A (dBm)	Conducted Output Power Ant B (dBm)	Total Conducted Output Power (dBm)	Limit (dBm)
802.11n10	1	4950	11.77	9.99	13.98	≤ 26
		4955	11.81	10.17	14.08	≤ 26
		4980	11.70	10.52	14.16	≤ 26

≤8dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted Output Power Ant A (dBm)	Conducted Output Power Ant B (dBm)	Total Conducted Output Power (dBm)	Limit (dBm)
802.11n10	1	4950	14.20	12.53	16.45	≤ 30
		4955	14.27	12.89	16.64	≤ 30
		4980	14.14	13.22	16.71	≤ 30

Note: Conducted Output Power(dBm) = Conducted Power(dBm) + Duty Cycle Correction Factor(dB)

Note: The total conducted output power is calculated by converting logarithmic values to linear values, summing them, then converting the sum into logarithmic value like so: $10 \cdot \log(10^{(\text{ant A}/10)} + 10^{(\text{ant B}/10)})$.

Note: If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density limits should be reduced by the amount in decibels that the directional gain of the antennas exceed 9 dBi.

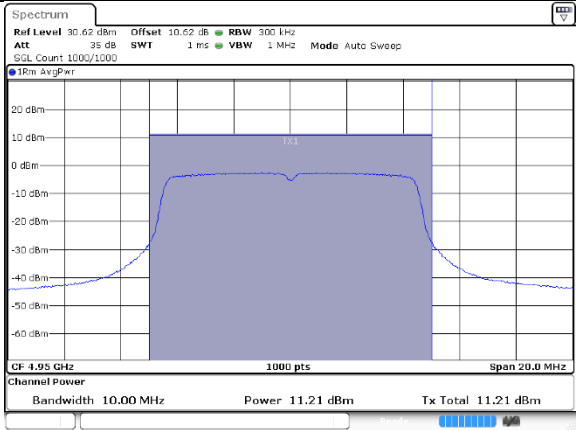
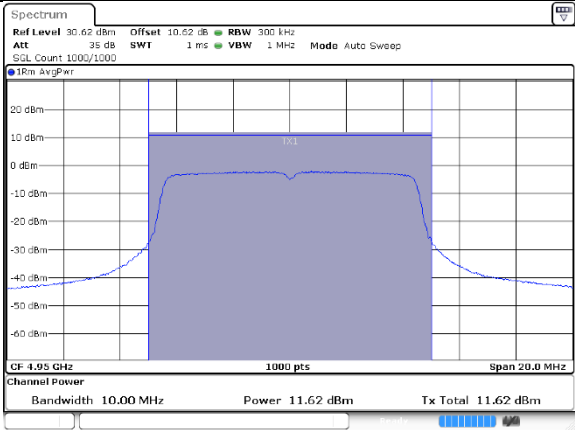
RF Output Power

Naming Convention: Frequency(MHz)-Bandwidth(MHz)-Mode-Radio-Antenna

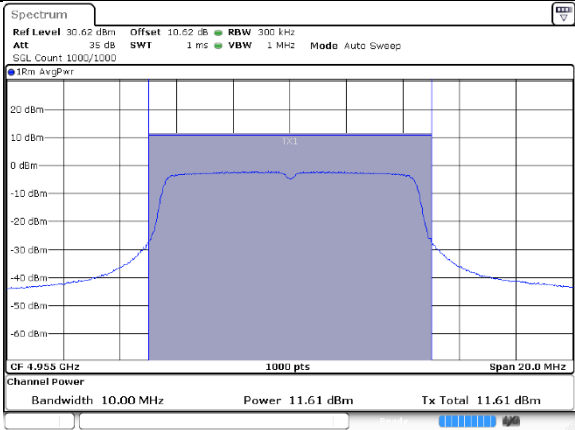
Radio 1 15dBi Antenna Gain – SISO



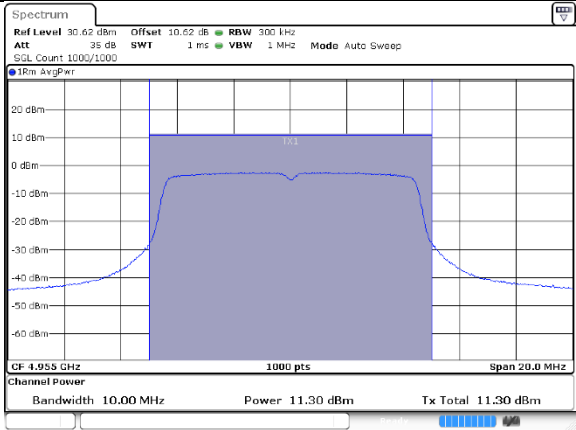
Radio 2 15dBi Antenna Gain - SISO



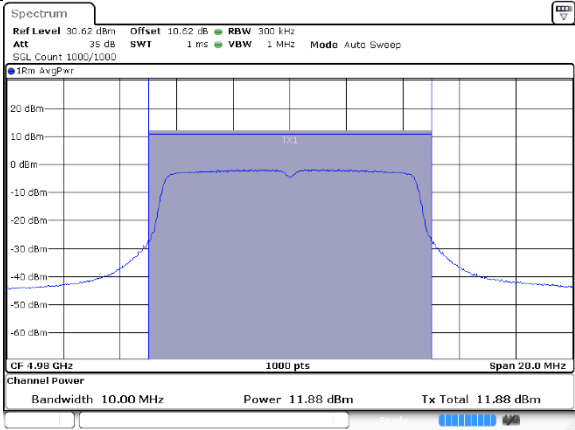
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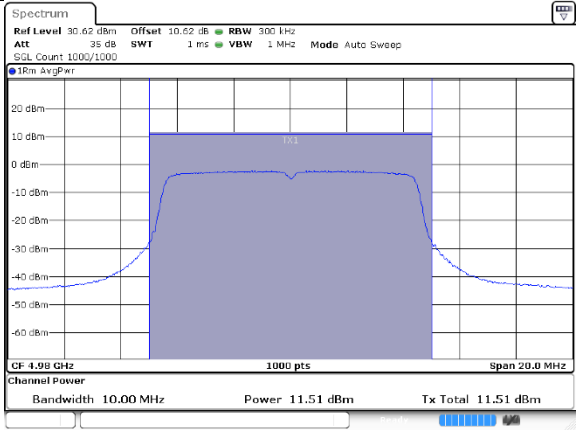
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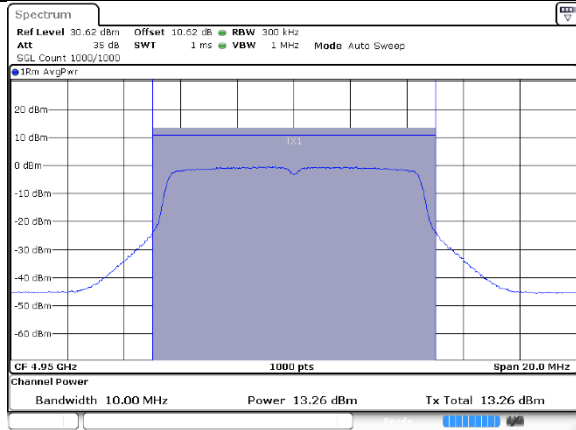


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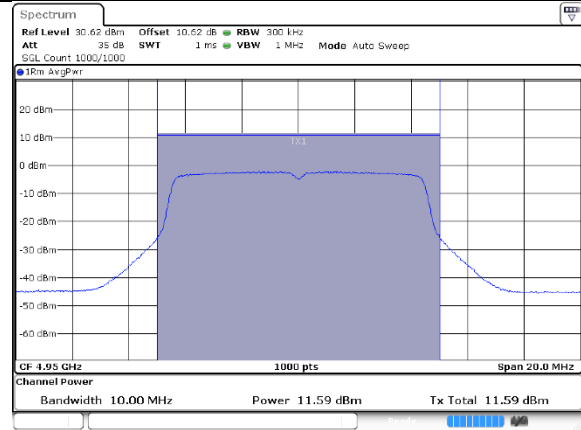


4980MHz-10MHz-802.11n10-2-A

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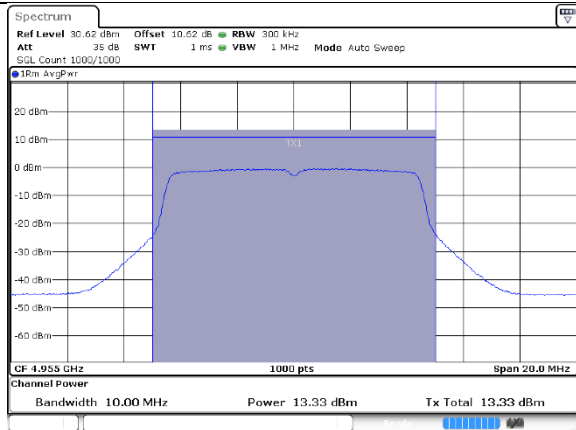
Radio 1 13dBi Antenna Gain – SISO and Radio 1 ≤ 8 dBi Antenna Gain – SISO & MIMO

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Date: 10/MAR/2026 12:05:17



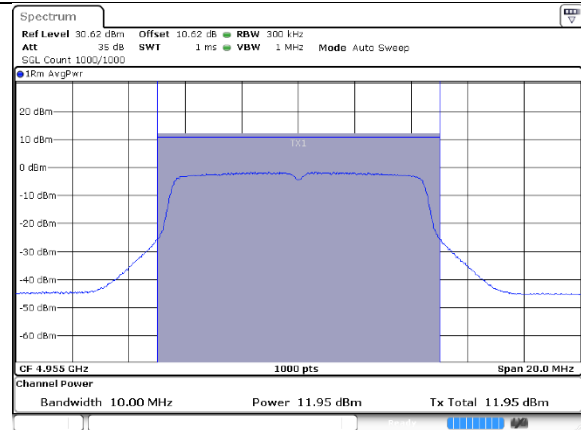
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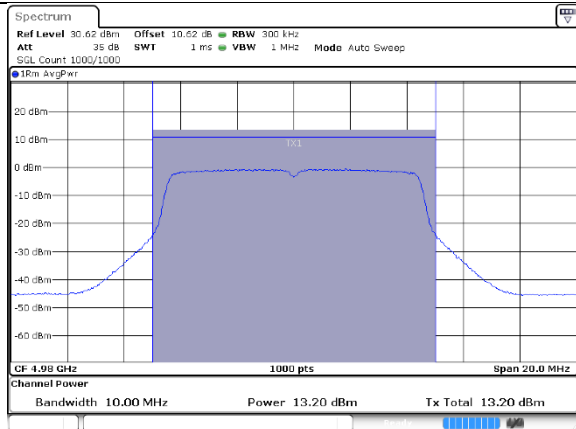
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4950MHz-10MHz-802.11n10-1-B



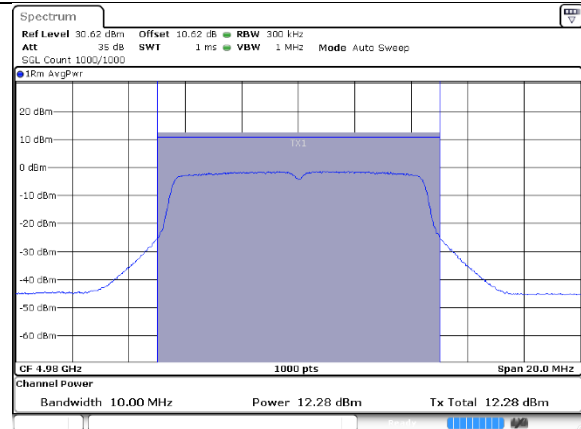
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Date: 10/MAR/2026 12:14:39

4955MHz-10MHz-802.11n10-1-B

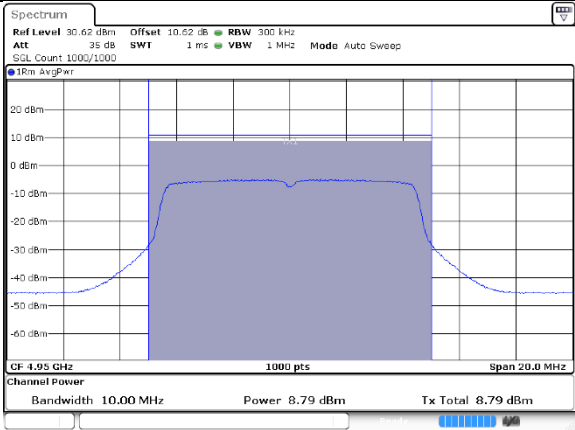


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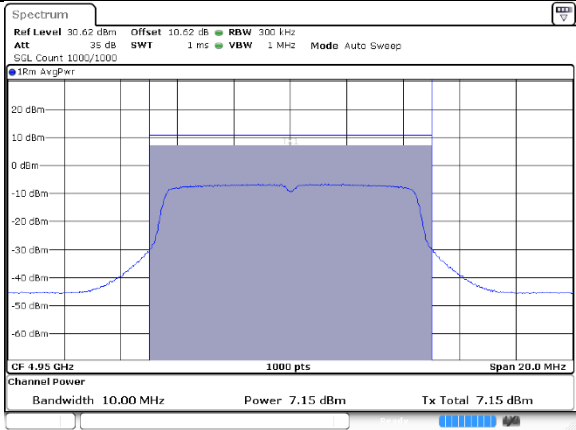
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4980MHz-10MHz-802.11n10-1-B

Radio 1 15dBi Antenna Gain - MIMO

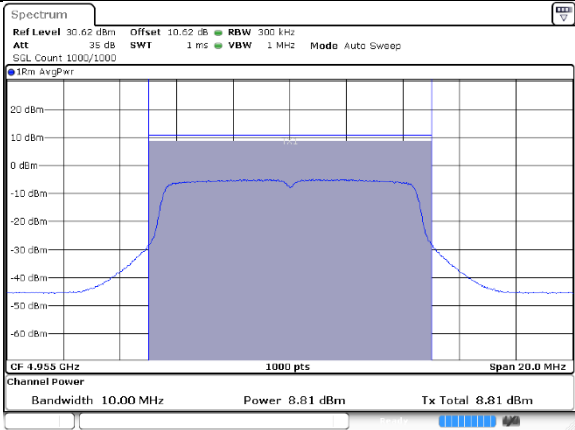


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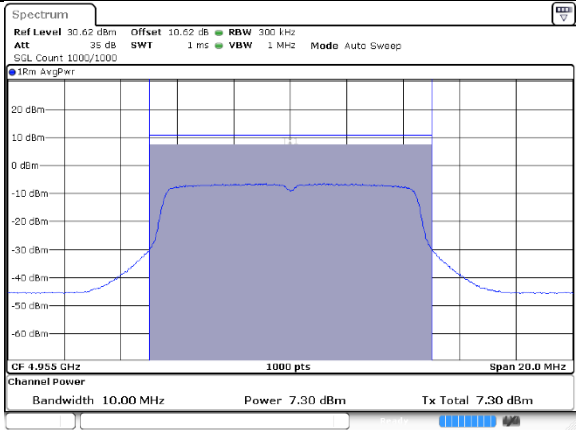
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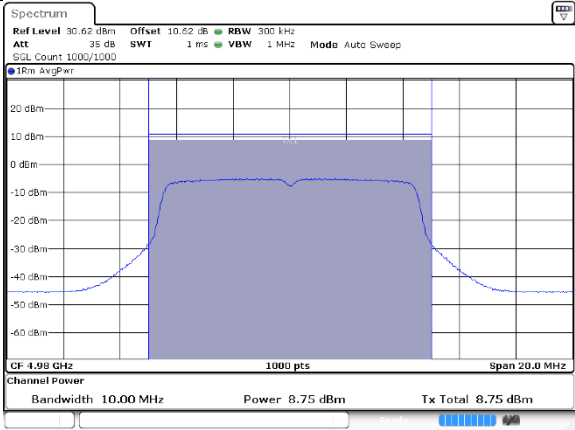
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4950MHz-10MHz-802.11n10-1-B



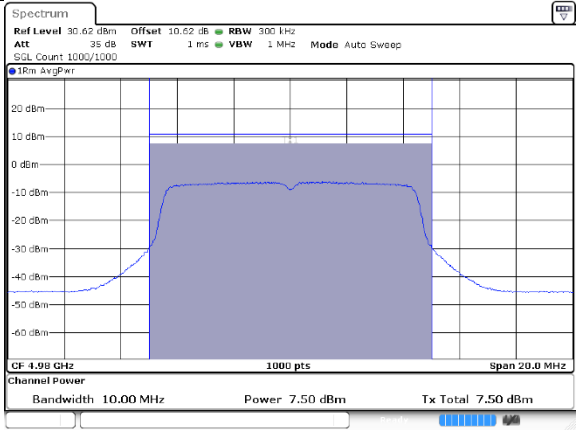
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4955MHz-10MHz-802.11n10-1-A



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Date: 11.MAR.2026 13:05:49

4955MHz-10MHz-802.11n10-1-B



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Date: 11.MAR.2026 13:14:12

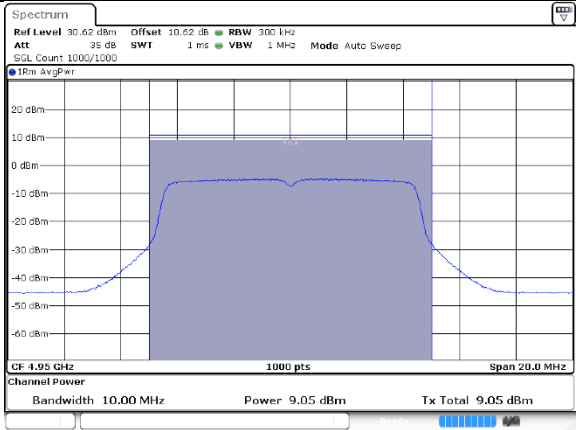
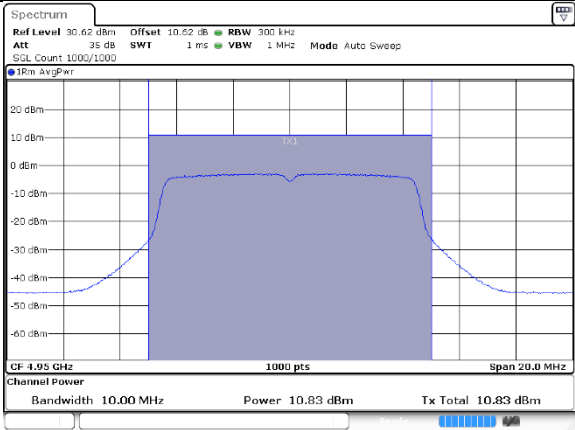
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4980MHz-10MHz-802.11n10-1-B

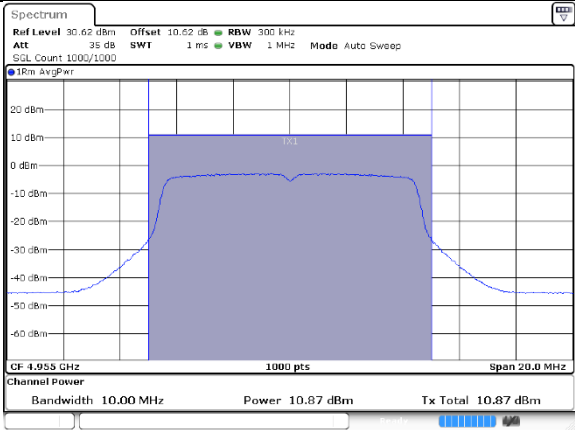
Radio 2 15dBi Antenna Gain - MIMO



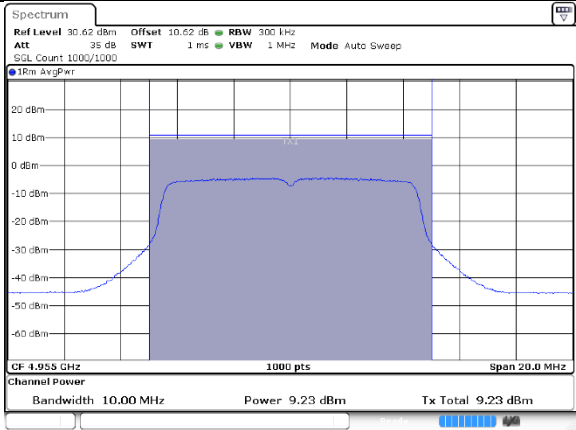
Radio 1 13dBi Antenna Gain - MIMO



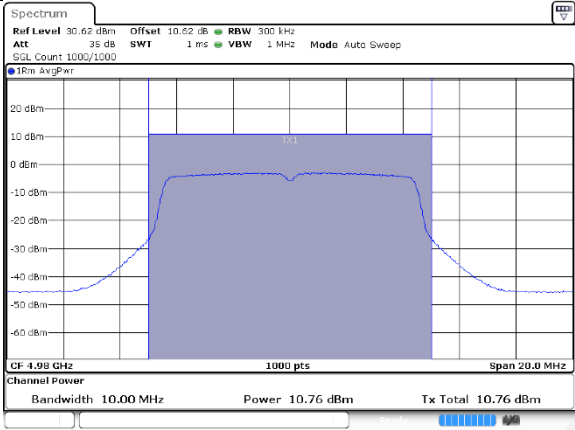
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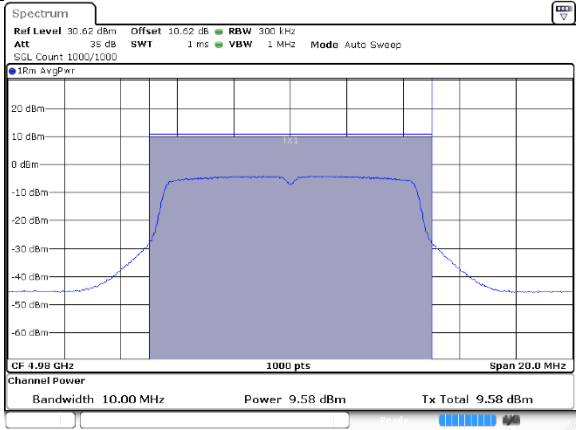
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4955MHz-10MHz-802.11n10-1-A



4955MHz-10MHz-802.11n10-1-B



4980MHz-10MHz-802.11n10-1-A

4980MHz-10MHz-802.11n10-1-B

6 FCC §2.1046, §90.205(p), §90.1215, RSS-111 § 5.3 - Power Spectral Density

6.1 Applicable Standards

FCC §90.1215

High power devices are also limited to a peak power spectral density of 21 dBm per one MHz. High power devices using channel bandwidths other than those listed above are permitted; however, they are limited to peak power spectral density of 21 dBm/MHz. If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density should be reduced by the amount in decibels that the directional gain of the antenna exceeds 9 dBi. However, high power point-to-point and point-to-multipoint operations (both fixed and temporary-fixed rapid deployment) may employ transmitting antennas with directional gain up to 26 dBi without any corresponding reduction in the maximum conducted output power or spectral density. Corresponding reduction in the maximum conducted output power and peak power spectral density should be the amount in decibels that the directional gain of the antenna exceeds 26 dBi.

RSS-111 § 5.3

High- and low-power devices are also limited to a maximum power spectral density of 21 dBm/MHz and 8 dBm/MHz respectively. Devices using channel bandwidths other than those listed in Table 1 are permitted; however, the channel bandwidth shall not exceed 20 MHz and the devices shall comply with the maximum power spectral density limits of 21 dBm/MHz for high-power transmitters and 8 dBm/MHz for low-power transmitters. See SP 4940 MHz for antenna gain limits and operational restrictions for the device.

For low-power devices, if a directional antenna is used and its gain exceeds 9 dBi, the transmit power shall be reduced by the same amount that the antenna gain is exceeded.

For high-power fixed point-to-point and point-to-multipoint operations, if the directional antenna gain exceeds 26 dBi, the transmit power shall be reduced by same amount that the antenna gain is exceeded.

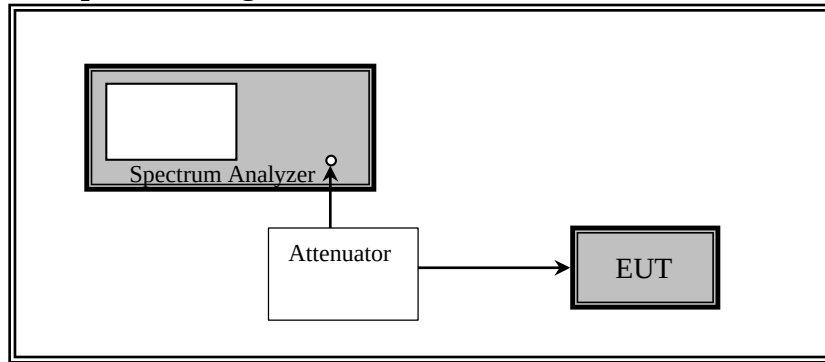
6.2 Test Procedure

ANSI C63.26-2015 section 5.2.3.5.

The following procedure can be used with a spectrum/signal analyzer or EMI receiver to determine the PPSD.

- a) Set the analyzer center frequency to the OBW center frequency.
- b) Set the span to $2 \times$ to $3 \times$ the OBW.
- c) Set the RBW to the specified reference bandwidth
- d) Set the VBW $\geq 3 \times$ RBW.
- e) Detector = peak.
- f) Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period).
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the specified reference bandwidth (PSD).

6.3 Test Setup Block Diagram



6.4 Test Equipment List and Details

BACL No.	Manufacturers	Descriptions	Models	Serial Numbers	Calibration Dates	Calibration Interval
912	Rhode & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2025-08-04	1 year
1585	N/A	SMA 24in RF cable	ST18/SMAm /SMAm/24	245210	2025-09-19	6 months
1541	Pasternack	10dB Attenuator, SMA	PE7395-10	BACL01541A	2026-01-27	1 year

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.

6.5 Test Environmental Conditions

Temperature:	22.4° C
Relative Humidity:	34 %
ATM Pressure:	101.8 kPa

The testing was performed by Rachana Khanduri on 2026-03-11 in the RF Site.

6.6 Test Results

15dBi SISO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	14.89	13.25	≤ 15
		4955	14.95	13.44	≤ 15
		4980	14.80	13.45	≤ 15
	2	4950	14.63	14.16	≤ 15
		4955	14.67	14.19	≤ 15
		4980	14.92	14.56	≤ 15

13dBi SISO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	16.90	15.84	≤ 17
		4955	16.64	15.65	≤ 17
		4980	16.94	15.76	≤ 17

≤ 8 dBi SISO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	16.90	15.84	≤ 21
		4955	16.64	15.65	≤ 21
		4980	16.94	15.76	≤ 21

15dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Total Conducted PSD (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	12.34	10.80	14.65	≤ 15
		4955	12.38	11.01	14.76	≤ 15
		4980	12.27	11.17	14.77	≤ 15
	2	4950	11.60	10.97	14.31	≤ 15
		4955	11.70	10.96	14.36	≤ 15
		4980	11.89	11.51	14.71	≤ 15

13dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Total Conducted PSD (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	14.64	12.98	16.90	≤ 15
		4955	14.47	12.77	16.71	≤ 15
		4980	14.23	12.84	16.60	≤ 15

 ≤ 8 dBi MIMO

Mode	Radio	Freq. (MHz)	Conducted PSD Ant A (dBm/MHz)	Conducted PSD Ant B (dBm/MHz)	Total Conducted PSD (dBm/MHz)	Limit (dBm/MHz)
802.11n10	1	4950	16.90	15.84	19.41	≤ 21
		4955	16.64	15.65	19.18	≤ 21
		4980	16.94	15.76	19.40	≤ 21

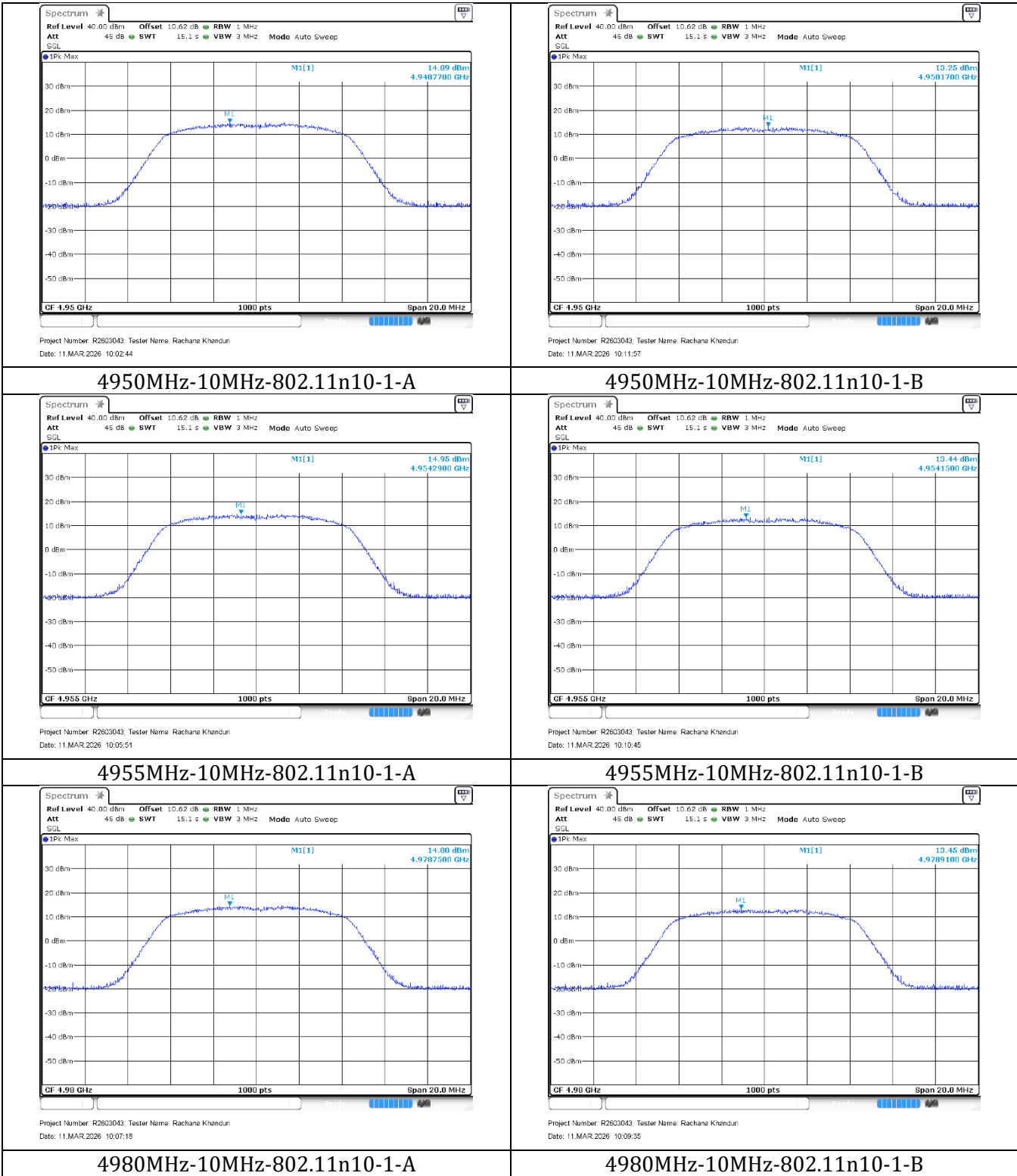
Note: The total conducted PSD is calculated by converting logarithmic values to linear values, summing them, then converting the sum into logarithmic value like so: $10 \cdot \text{LOG}(10^{(\text{ant A}/10)} + 10^{(\text{ant B}/10)})$.

Note: If transmitting antennas of directional gain greater than 9 dBi are used, both the maximum conducted output power and the peak power spectral density limits should be reduced by the amount in decibels that the directional gain of the antennas exceed 9 dBi.

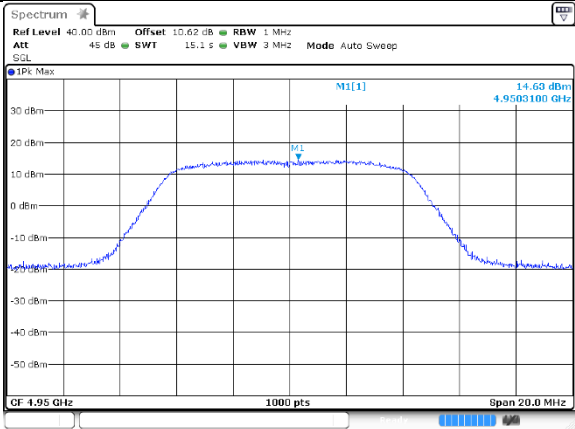
Power Spectral Density

Naming Convention: Frequency(MHz)-Bandwidth(MHz)-Mode-Radio-Antenna

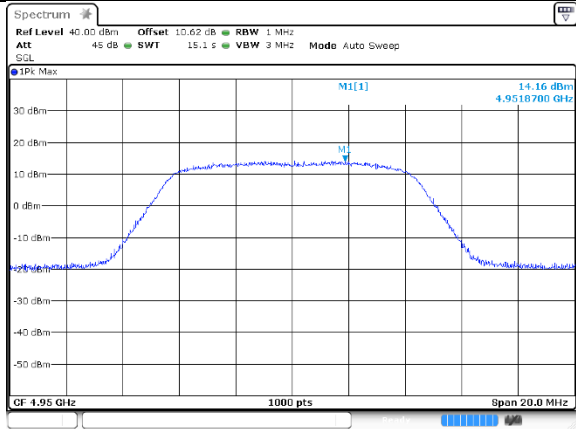
Radio 1 15dBi Antenna Gain – SISO



Radio 2 15dBi Antenna Gain - SISO

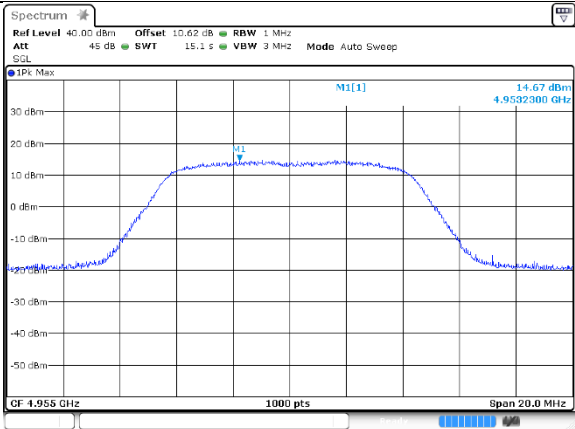


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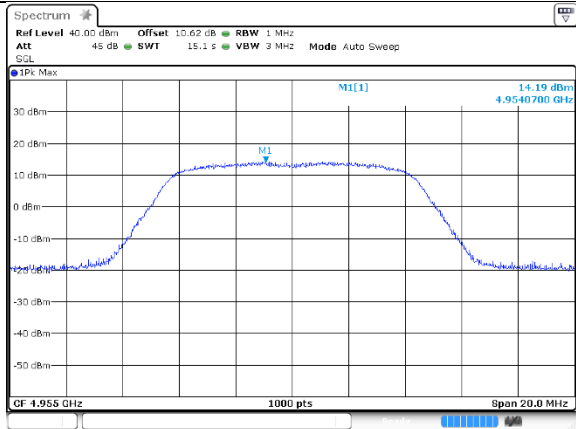
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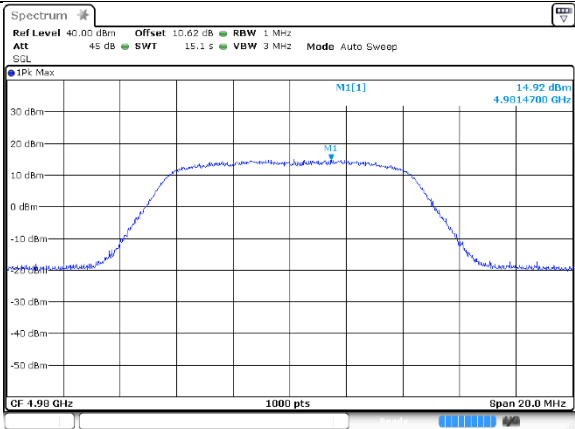
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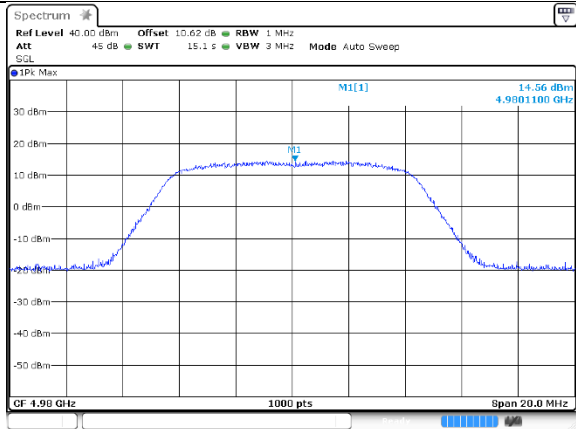
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4955MHz-10MHz-802.11n10-2-A



Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 11:04:00

4955MHz-10MHz-802.11n10-2-B

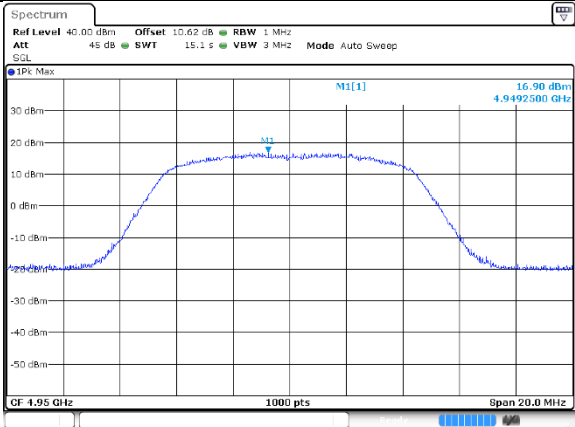


Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 11:42:47

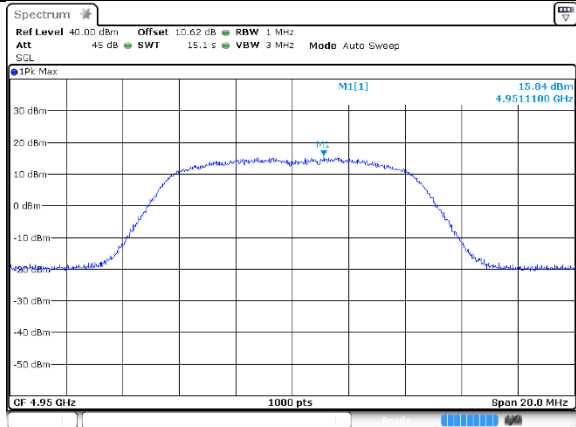
4980MHz-10MHz-802.11n10-2-A

4980MHz-10MHz-802.11n10-2-B

Radio 1 13dBi Antenna Gain – SISO and Radio 1 ≤8dBi Antenna Gain – SISO & MIMO

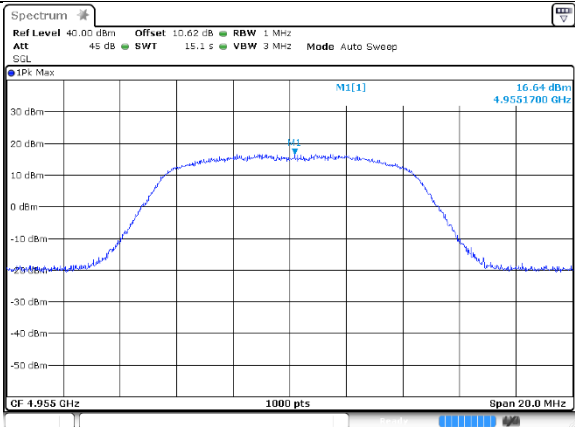


Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 09:23:37



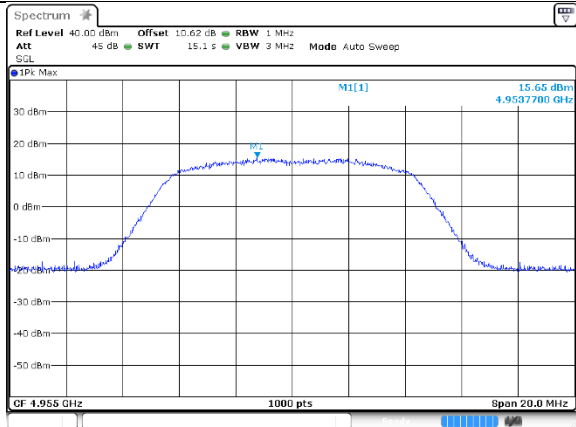
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Date: 11.MAR.2026 09:39:01

4950MHz-10MHz-802.11n10-1-A



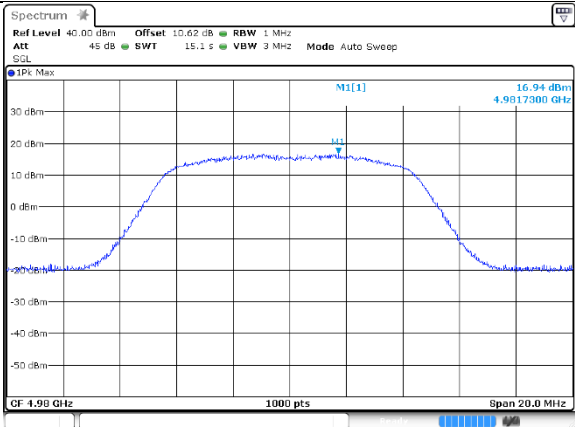
Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 09:28:19

4950MHz-10MHz-802.11n10-1-B



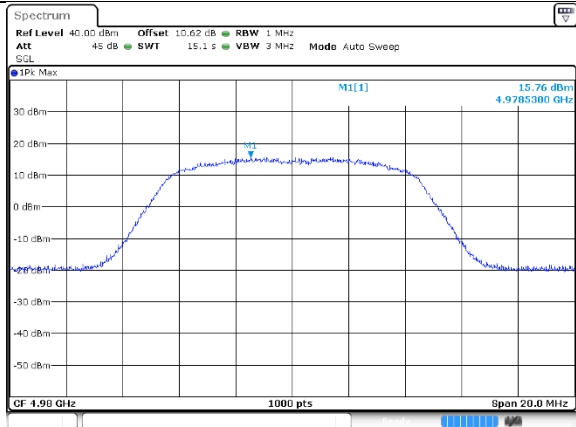
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Date: 11.MAR.2026 09:33:50

4955MHz-10MHz-802.11n10-1-A



Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 09:28:19

4955MHz-10MHz-802.11n10-1-B

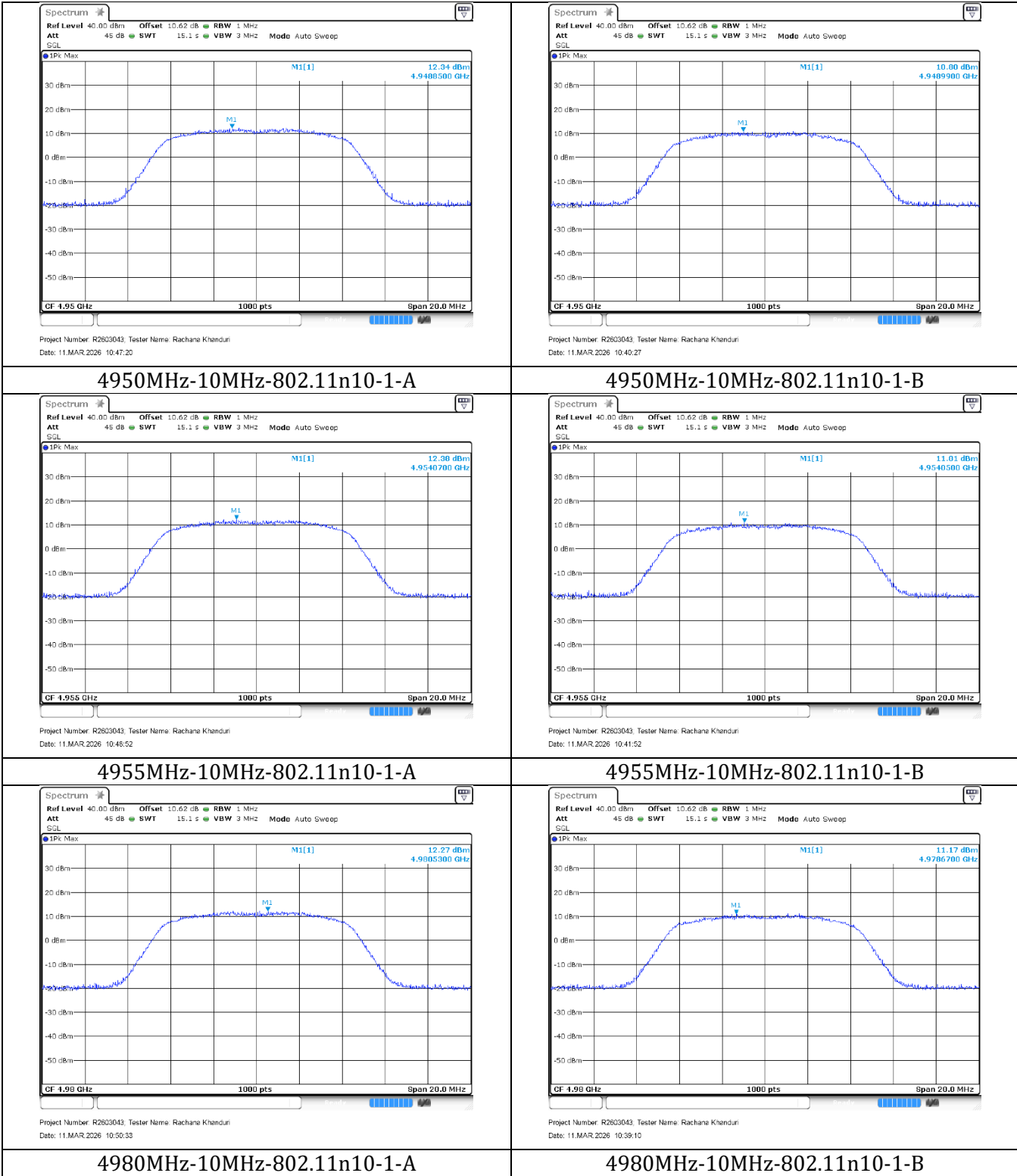


Project Number: R2603043, Tester Name: Rachana Khenduri
Date: 11.MAR.2026 09:32:13

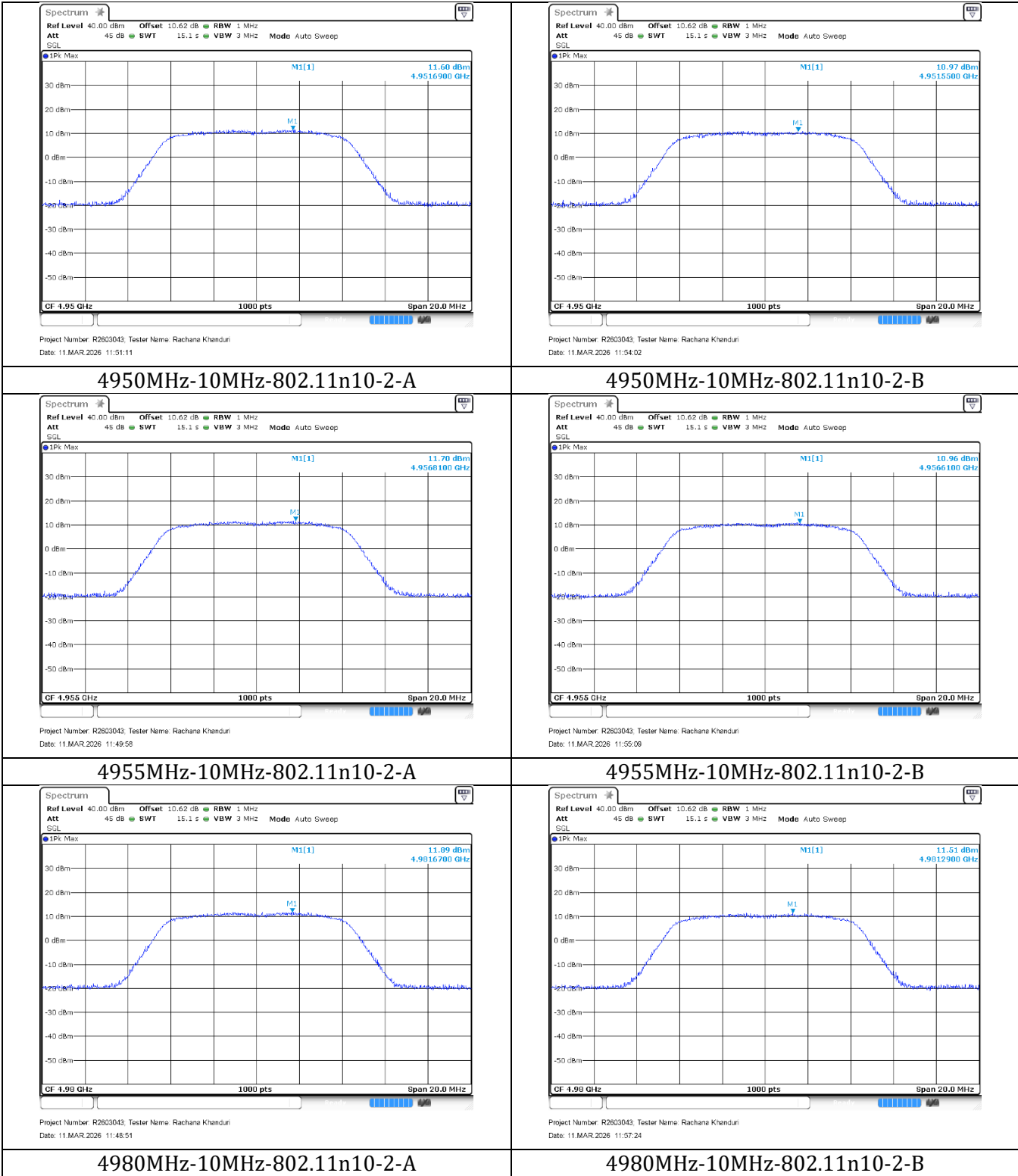
4980MHz-10MHz-802.11n10-1-A

4980MHz-10MHz-802.11n10-1-B

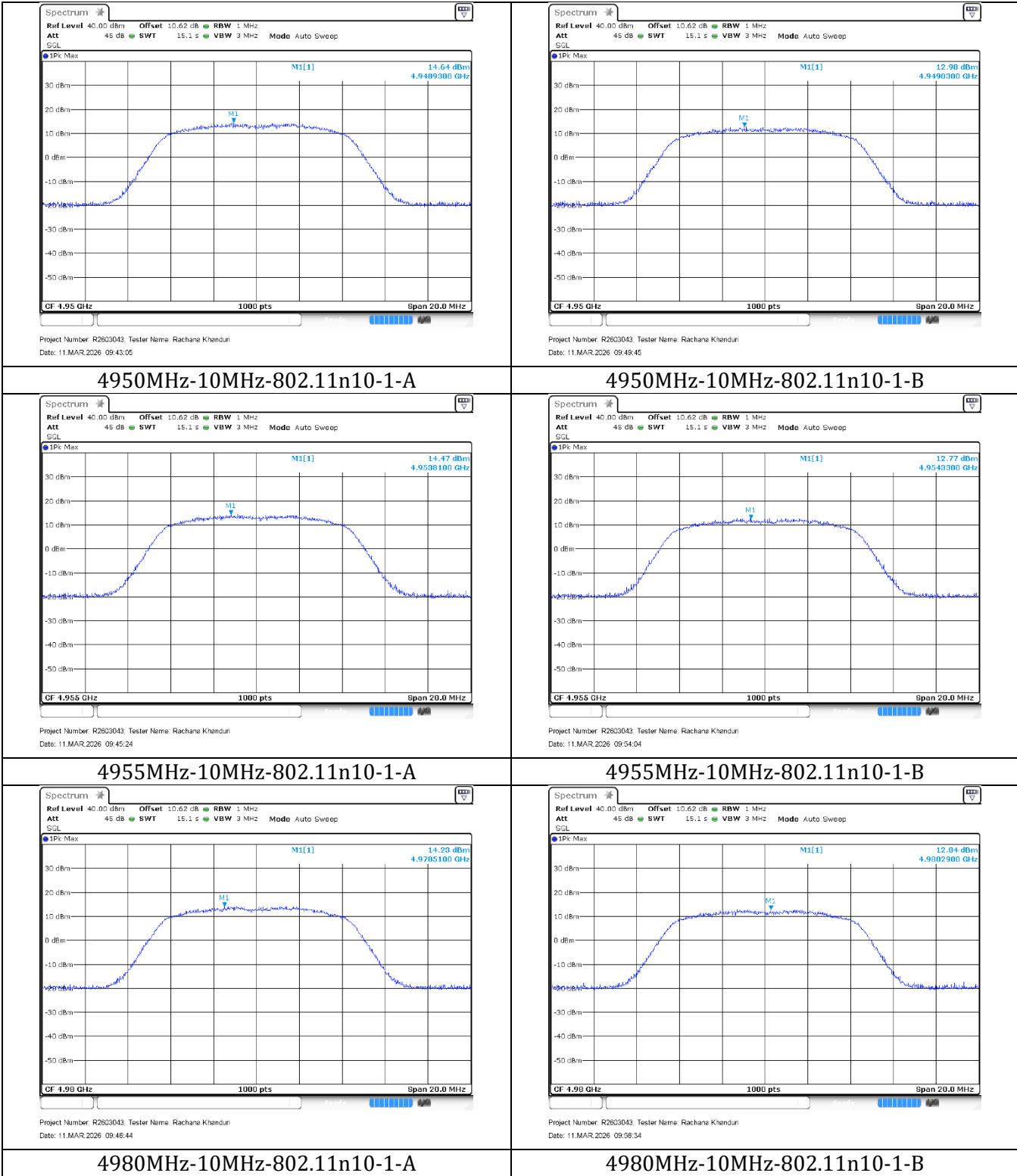
Radio 1 15dBi Antenna Gain - MIMO



Radio 2 15dBi Antenna Gain - MIMO



Radio 1 13dBi Antenna Gain - MIMO



7 FCC §90.1215 & RSS-111 § 5.4 – Transmitter Peak to Average Ratio

7.1 Applicable Standards

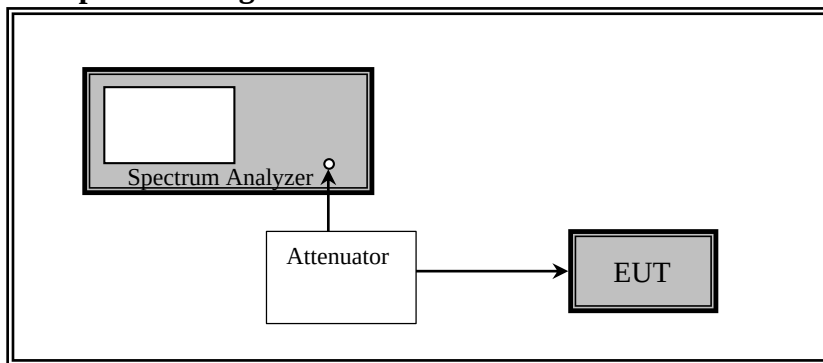
FCC §90.1215: The transmitting power of stations operating in the 4940–4990 MHz band must not exceed the maximum limits in this section. (e) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

RSS-111, Clause 5.4: The PAPR of the equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

7.2 Test Procedure

ANSI C63.26-2015 section 5.2.6.

7.3 Test Setup Block Diagram



7.4 Test Equipment List and Details

BACL No.	Manufacturers	Descriptions	Models	Serial Numbers	Calibration Dates	Calibration Interval
912	Rhode & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2025-08-04	1 year
1585	N/A	SMA 24in RF cable	ST18/SMAM/SMAM/24	245210	2025-09-19	6 months
1541	Pasternack	10dB Attenuator, SMA	PE7395-10	BACL01541A	2026-01-27	1 year

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 “A2LA Policy on Metrological Traceability”.