UNIFIED COMPLIANCE LABORATORY

427 West 12800 South
Draper, UT 84020

Test Report

Certification

FCC ID	SWX-U7LR
ISED ID	6545A-U7LR
Equipment Under Test	U7-LR
Test Report Serial Number	TR9914_01
Date of Test(s)	2, 10 - 11 February; 12, 24 - 25, 31 March 2025
Report Issue Date	10 April 2025

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.

NVLAP TESTING ilac-MRA

NVLAP LAB CODE 600241-0

Certification of Engineering Report

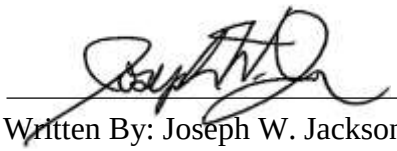
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested with the specifications provided by the manufacturer.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	U7-LR
FCC ID	SWX-U7LR
ISED ID	6545A-U7LR

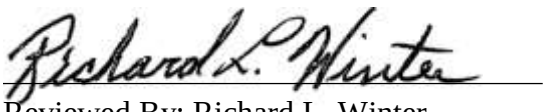
On this 10th day of April 2025, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith. Unified Compliance laboratory is not responsible for incorrect information provided by the manufacturer.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Joseph W. Jackson



Reviewed By: Richard L. Winter

Revision History		
Revision	**Description**	**Date**
01	Original Report Release	10 April 2025

Table of Contents

1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Alex Macon
Title	Compliance

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UBIQUITI
Model Number	U7-LR
Serial Number	FE0CCB4
Dimensions (cm)	17.6 x 17.6 x 4.3

2.2 Description of EUT

The U7-LR is a WiFi 6 access point that represents the next generation of competitively priced, prosumer wireless technology for home and enterprise users. The U7-LR provides high aggregate throughput speeds. The U7-LR transmit in the 2.4 GHz and 5 GHz frequency bands and uses integrated internal antennas. The U7-LR is powered by a 802.3at PoE power adapter.

For CDD transmission, direction gain is calculated as follows.

Array Gain = 10 log(NANT/NSS) dB
NANT = number of transmit antennas and NSS = number of spatial streams. NSS = 1 considered worst case. For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;

For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 4.77 dB + 6 dBi = 10.77 dBi.

The U7-LR uses Transmit Power (TP) Control protocol and is included in the power tables of Section 5.4.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320
	40 MHz	5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310
	80 MHz	5290
	160 MHz	5250
UNII-2C	20 MHz	5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720
	40 MHz	5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*,

		5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710
	80 MHz	5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600*, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690
	160 MHz	5570
* Frequency not applicable in Canada		

Table 1: UNII-2A and UNII-2C Channel Settings

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UBIQUITI MN: U7-LR SN: FE0CCB4	WiFi Access Point	See Section 2.4
BN: UBIQUITI MN: U-POE-at SN: N/A	PoE Power Adapter	Unshielded Cat 5e cable/1 meters
BN: Dell MN: XPS 13 SN: N/A	Laptop Personal Computer	Unshielded Cat 5e cable/1 meters

Notes: (1) EUT
(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
AC Mains	1	3 conductor power cord/80 cm
POE (POE Injector)	1	Unshielded Cat 5e cable/8 meters
LAN (POE Injector)	1	Unshielded Cat 5e cable/1 meters

2.5 Operating Environment

Power Supply	120 Volts ac Mains to 48 Volts PoE

AC Mains Frequency	60 Hz
Temperature	21.1 – 23.5 °C
Humidity	21.9 – 23.5 %
Barometric Pressure	1020 mBar

2.6 Operating Modes

The U7-LR was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/ax were investigated. All measurements are reported with the worst-case mode (802.11ax) unless otherwise stated.

2.7 EUT Exercise Software

EUT firmware version 1.0 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

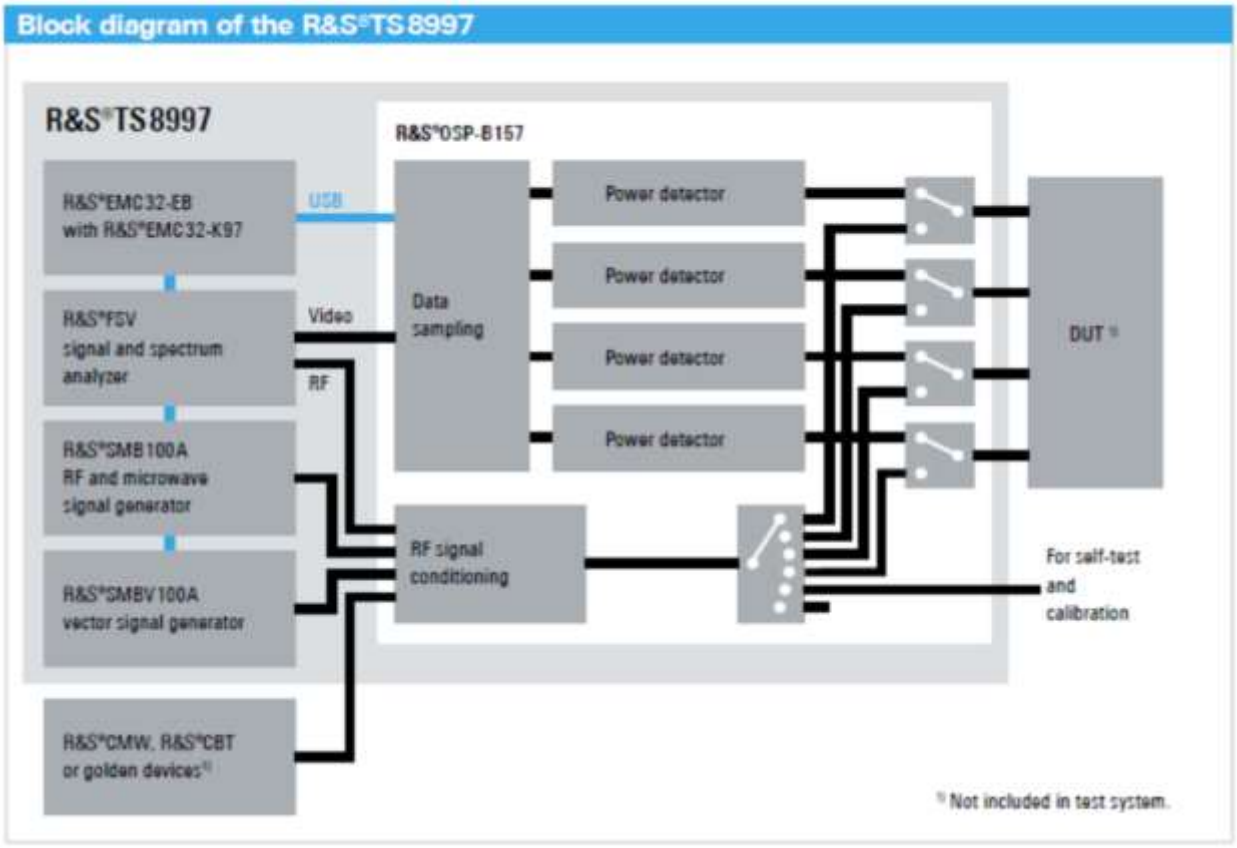


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.203	N/A	Antenna requirements	Structural Requirement	Compliant
15.207	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(a)	RSS-247 §6.2.2	Bandwidth Requirement	5260 to 5720	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5260 to 5720	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	N/A Note[1]
15.209	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5260 to 5720	Compliant
15.407(h)	RSS-247 §6.3	DFS Requirements	5260 to 5720	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements. Note [1]: Radiated Spurious was performed per 15.209 with the antenna unterminated.				

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2025. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2025.

Unified Compliance Laboratory has been assigned Designation Number US5037 by the FCC and Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-2500	8/27/2024	8/27/2025
LISN	AFJ	LS16C/10	UCL-2512	7/08/2024	7/08/2025
ISN	Teseq	ISN T800	UCL-2974	7/09/2024	7/09/2025
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	AFJ	AFJ FFT3010	UCL-3107	N/A	N/A

Table 2: List of equipment used for Conducted Emissions Testing at Mains Port

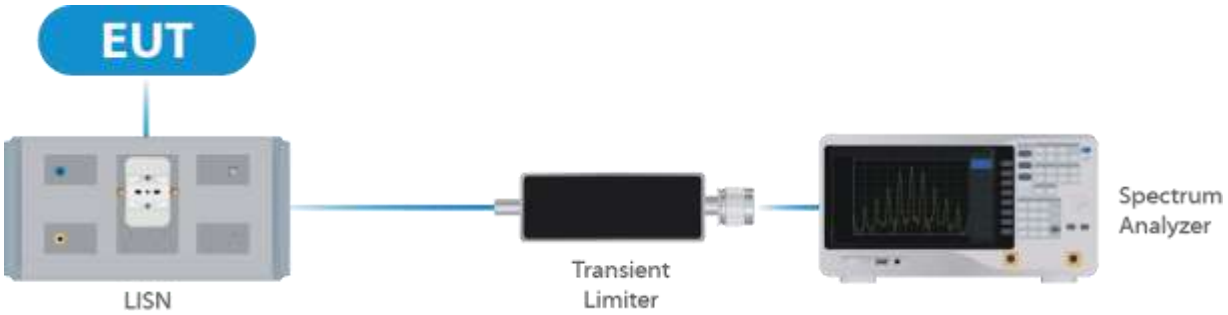


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	1/16/2025	1/16/2026
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	4/12/2024	4/19/2025
Switch Extension	R&S	OSP-150W	UCL-2870	4/12/2024	4/19/2025
Test Software	R&S	EMC32	UCL-9442	-	-

Table 3: List of equipment used for Direct Connect at the Antenna Port

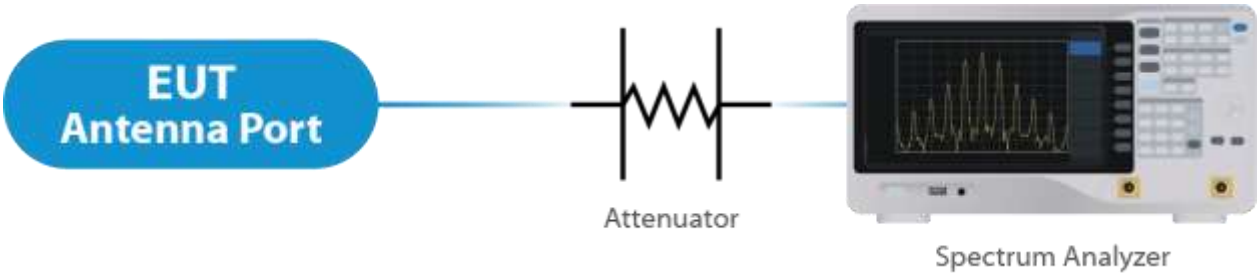


Figure 2: Direct Connect at the Antenna Port Test

Figure 3: Output Power Measurement

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	12/27/2024	12/27/2025
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	1/19/2024	1/19/2026
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	2/22/2023	3/22/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	3/10/2023	3/10/2025
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	2/11/2025	2/4/2027
10 - 40 GHz Horn Antenna	ETS-Lindgren	3116C	UCL-7209	6/6/2024	6/6/2026
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	7/2/2024	7/2/2025
Test Software	Nexio	BatEMC	UCL-5253 & UCL-5249	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

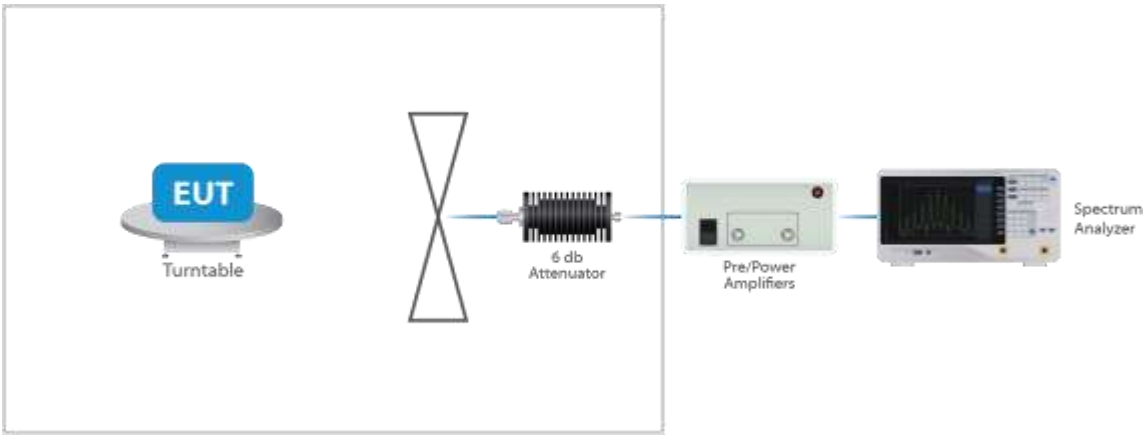


Figure 4: Radiated Emissions Test

4.4 DFS Testing

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Spectrum Analyzer	Keysight	N9010B	UCL-7069	5/3/2024	5/3/2025

4.4.1 Master Test Set Up

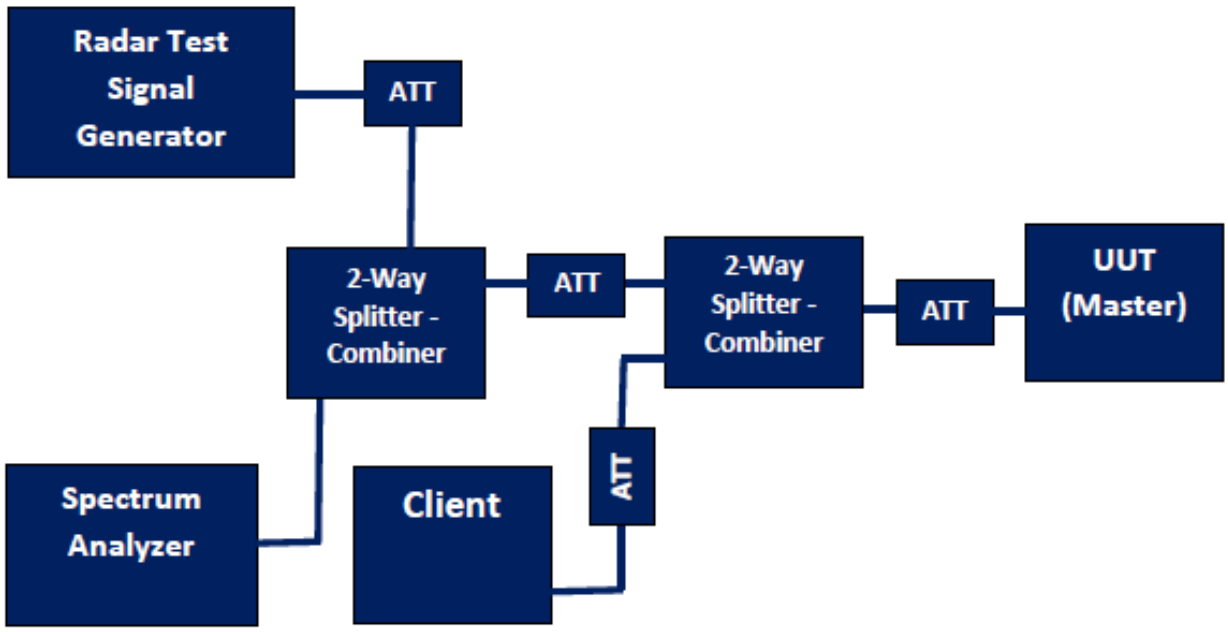


Figure 5: DFS Test Set Up - Master

4.5 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.6 Measurement Uncertainty

Test	Uncertainty (± dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	**K Factor**	**Value**
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses an integral internal antenna. Per the manufacturer, the Maximum gain of the antenna per chain is 6 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

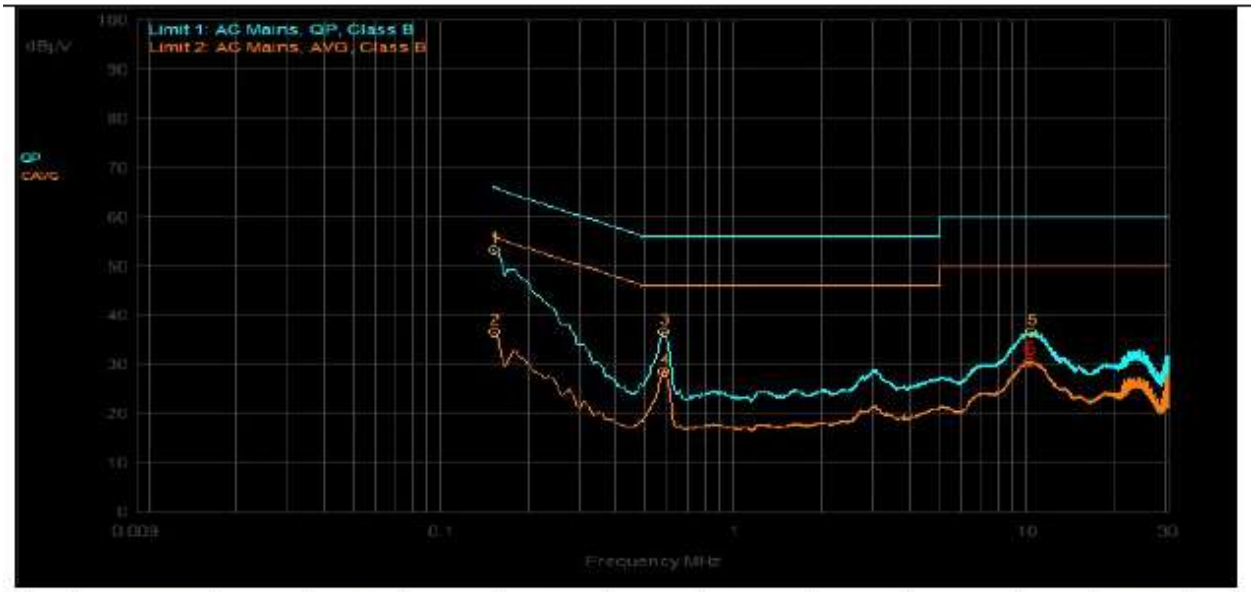
See Section 2.2 for directional gain calculation.

Results

The EUT complied with the specification

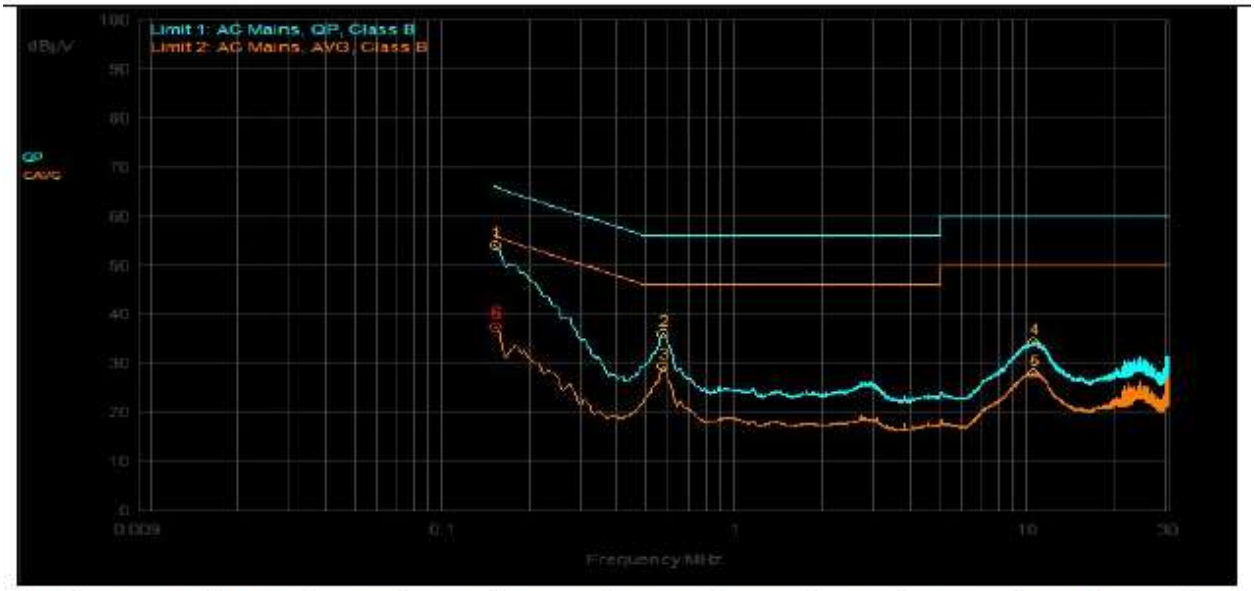
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
1	150,000kHz	12.41	0.00		QPeak	40.91	53.32	66.00	-12.68			
3	573,000kHz	12.36	0.00		QPeak	24.40	36.76	56.00	-19.24			
5	10.185	12.23	0.00		QPeak	24.47	36.70	60.00	-23.30			
2	150,000kHz	12.41	0.00		C_AVG	24.34	36.75			56.00	-19.25	
4	573,000kHz	12.36	0.00		C_AVG	16.34	28.70			46.00	-17.30	
6	10.068	12.22	0.00		C_AVG	18.41	30.63			50.00	-19.37	

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.	P/F
MU	MHz	dB	dB	dB	Type	dBµV	dBµV	dBµV	dB	dBµV	dB	P/F
1	150,000kHz	12.38	0.00		QPeak	41.75	54.13	66.00	-11.87			
2	561,000kHz	12.37	0.00		QPeak	23.65	36.02	56.00	-19.98			
4	10.266	12.19	0.00		QPeak	22.26	34.45	60.00	-25.55			
3	564,000kHz	12.37	0.00		C_AVG	16.98	29.35			46.00	-16.65	
5	10.257	12.19	0.00		C_AVG	15.76	27.95			50.00	-22.05	
6	150,000kHz	12.38	0.00		C_AVG	25.22	37.60			56.00	-18.40	

Result

The EUT complied with the specification limit.

5.3 §15.407(a) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 662911 D01. Please see associated annex for details on instrument settings.

5.3.1 UNII-2A

Bandwidth (MHz)	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5260	16.8	18.3
OFDM 20	5280	16.8	18.4
OFDM 20	5320	16.8	18.6
HE 20	5260	19.3	20.0
HE 20	5280	19.0	20.1
HE 20	5320	19.3	19.9
HE 40	5270	37.5	39.5
HE 40	5310	37.5	39.5
HE 80	5290	78.0	81.5
HE 160	5250	156.2	169.0

5.3.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5500	16.4	18.6
OFDM 20	5600	16.3	18.5
OFDM 20	5720	16.5	18.3
HE 20	5500	33.3	20.1
HE 20	5600	19.3	20.1
HE 20	5720	19.3	20.0
HE 40	5510	38.0	39.5
HE 40	5590	38.0	39.5

HE 40	5710	38.0	39.5
HE 80	5530	78.0	81.0
HE 80	5610	78.0	81.5
HE 80	5690	79.0	80.5
HE 160	5570	156.2	167.0

Result

All chains were tested and the highest bandwidth per chain is reported above. Please see Annex for all bandwidth measurements.

5.4 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 662911 D01. Please see associated annex for details on instrument settings.

See Section 2.2 for directional gain calculation.

The maximum average RF conducted output power measured for this device was 23.92 dBm or 246.60 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain. The antenna has a maximum gain of 6 dBi.

5.4.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5260	Mcs0_Nss2	16	22.87	6	28.87	30	-1.13
OFDM 20	5280	Mcs0_Nss2	16	22.88	6	28.88	30	-1.12
OFDM 20	5320	Mcs0_Nss2	16	22.66	6	28.66	30	-1.34
HE 20	5260	Mcs0_Nss2	16	23.06	6	29.06	30	-0.94
HE 20	5280	Mcs0_Nss2	16	23.13	6	29.13	30	-0.87
HE 20	5320	Mcs0_Nss2	16	22.92	6	28.92	30	-1.08
HE 40	5270	Mcs0_Nss2	16	23.29	6	29.29	30	-6.71
HE 40	5310	Mcs0_Nss2	16	23.11	6	29.11	30	-0.89
HE 80	5290	Mcs0_Nss2	17	22.88	6	28.88	30	-7.12
HE 160	5250	Mcs0_Nss2	18	23.86	6	29.86	30	-0.14

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5260	Mcs0_Nss1	11	17.87	6	23.87	30	-6.13
OFDM 20	5280	Mcs0_Nss1	11	17.88	6	23.88	30	-6.12
OFDM 20	5320	Mcs0_Nss1	11	17.66	6	23.66	30	-6.34
HE 20	5260	Mcs0_Nss1	12	19.06	6	25.06	30	-4.94

HE 20	5280	Mcs0_Nss1	12	19.13	6	25.13	30	-4.87
HE 20	5320	Mcs0_Nss1	12	18.92	6	24.92	30	-5.08
HE 40	5270	Mcs0_Nss1	13	20.29	6	26.29	30	-3.71
HE 40	5310	Mcs0_Nss1	13	20.11	6	26.11	30	3.89
HE 80	5290	Mcs0_Nss1	17	22.88	6	28.88	30	-1.12
HE 160	5250	Mcs0_Nss1	18	23.86	6	29.86	30	-0.14

5.4.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5500	Mcs0_Nss2	16	22.06	6	28.06	30	-1.94
OFDM 20	5600	Mcs0_Nss2	16	22.07	6	28.07	30	-1.93
OFDM 20	5720	Mcs0_Nss2	17	22.97	6	28.97	30	-1.03
HE 20	5500	Mcs0_Nss2	17	23.24	6	29.24	30	-0.76
HE 20	5600	Mcs0_Nss2	17	23.34	6	29.34	30	-0.66
HE 20	5720	Mcs0_Nss2	17	23.16	6	29.16	30	-0.84
HE 40	5510	Mcs0_Nss2	17	23.45	6	29.45	30	-0.55
HE 40	5590	Mcs0_Nss2	17	23.33	6	29.33	30	-0.67
HE 40	5710	Mcs0_Nss2	17	23.24	6	29.24	30	-0.76
HE 80	5530	Mcs0_Nss2	18	23.26	6	29.26	30	-0.74
HE 80	5610	Mcs0_Nss2	18	23.19	6	29.19	30	-0.81
HE 80	5690	Mcs0_Nss2	19	23.92	6	29.92	30	-0.08
HE 160	5570	Mcs0_Nss2	18	23.27	6	29.27	30	-0.73

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Total Summed Output Power* (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dBm)
OFDM 20	5500	Mcs0_Nss1	12	18.06	6	24.06	30	-5.94
OFDM 20	5600	Mcs0_Nss1	12	18.07	6	24.07	30	-5.93

OFDM 20	5720	Mcs0_Nss1	12	17.97	6	23.97	30	-6.03
HE 20	5500	Mcs0_Nss1	12	18.24	6	24.24	30	-5.76
HE 20	5600	Mcs0_Nss1	12	18.34	6	24.34	30	-5.66
HE 20	5720	Mcs0_Nss1	12	18.16	6	24.16	30	-5.84
HE 40	5510	Mcs0_Nss1	14	20.45	6	26.45	30	-3.55
HE 40	5590	Mcs0_Nss1	14	20.33	6	26.33	30	-3.67
HE 40	5710	Mcs0_Nss1	14	20.24	6	26.24	30	-3.76
HE 80	5530	Mcs0_Nss1	18	23.26	6	29.26	30	-0.74
HE 80	5610	Mcs0_Nss1	18	23.19	6	29.19	30	-0.81
HE 80	5690	Mcs0_Nss1	19	23.92	6	29.92	30	-0.08
HE 160	5570	Mcs0_Nss1	18	23.27	6	29.27	30	-0.73

Result

In the configuration tested, the maximum average RF output power was less than 0.250 watt; therefore, the EUT complied with the requirements of the specification.

* Gated EIRP shown in the Annex is the conducted measurement.

5.5 §15.407(b) Spurious Emissions

5.5.1 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bans must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The "fail" is the transmitted signal exceeding the spurious limit.

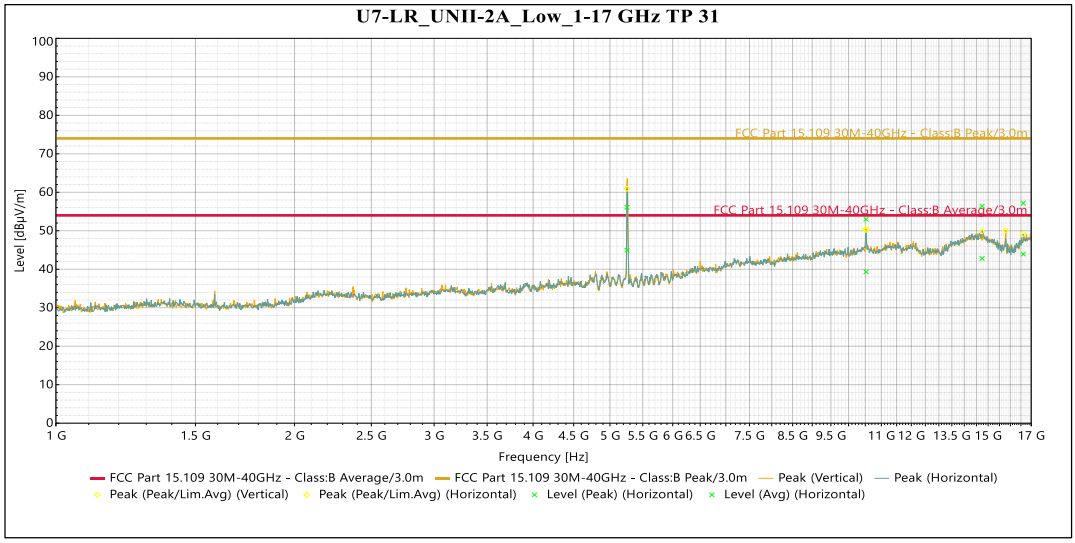
Correction Factor = Antenna Factor (dBi) + Cable Loss (dB) - Pre-Amplifier Gain (dB), and is added to the Receiver reading.

5.5.2 UNII-2A

QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
35.26 MHz	34.55	40	-5.45	258	1.2	Vertical	-14.58
42.34 MHz	36.66	40	-3.34	268	1.2	Vertical	-18.41
707.94 MHz	25.82	47	-21.18	242	1	Vertical	-2.89
891.10 MHz	43.02	47	-3.98	105	3.51	Vertical	-1.73
914.98 MHz	25.26	47	-21.74	80	4	Vertical	-0.53
958.26 MHz	23.93	47	-23.07	146	1.49	Vertical	-0.29
152.24 MHz	33.84	40	-6.17	311	1.49	Horizontal	-16.48

Table 5: Radiated Emissions 30 – 1000 MHz



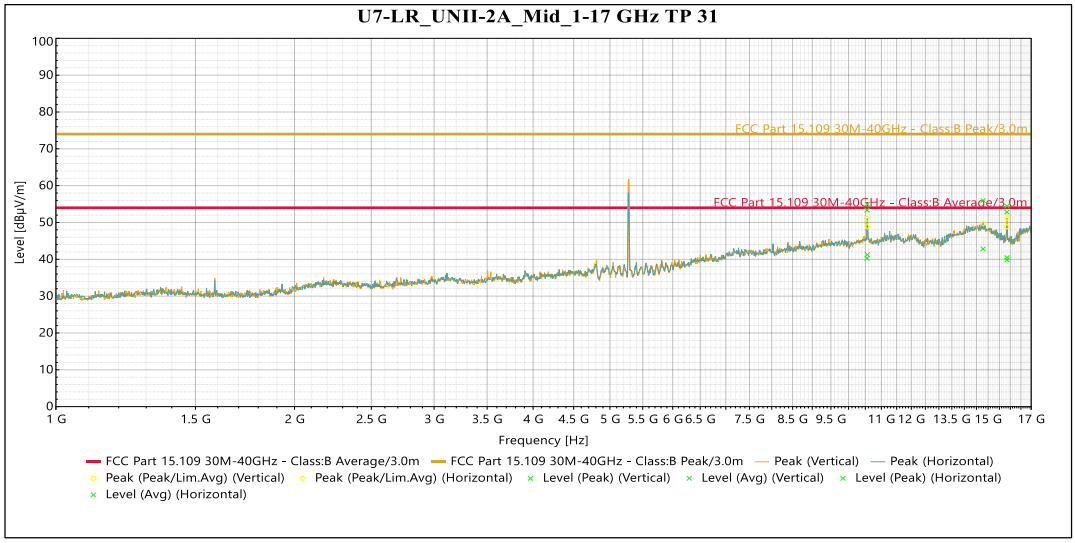
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
No significant emissions were observed in the Vertical orientation of the antenna							
5.25 GHz	56.09	74.0	-17.91	7	3.808	Horizontal	-0.73
1052 GHz	52.99	74.0	-21.01	168	3.812	Horizontal	11.46
14.74 GHz	56.37	74.0	-17.63	291	1.5	Horizontal	14.79
16.61 GHz	57.17	74.0	-16.83	315	2.132	Horizontal	16.46

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
No significant emissions were observed in the Vertical orientation of the antenna							
5.25 GHz	44.95	54.0	-9.05	7	3.808	Horizontal	-0.73
1052 GHz	39.32	54.0	-14.68	168	3.812	Horizontal	11.46
14.74 GHz	42.80	54.0	-11.20	291	1.5	Horizontal	14.79
16.61 GHz	43.93	54.0	-10.07	315	2.132	Horizontal	16.46

Table 6: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



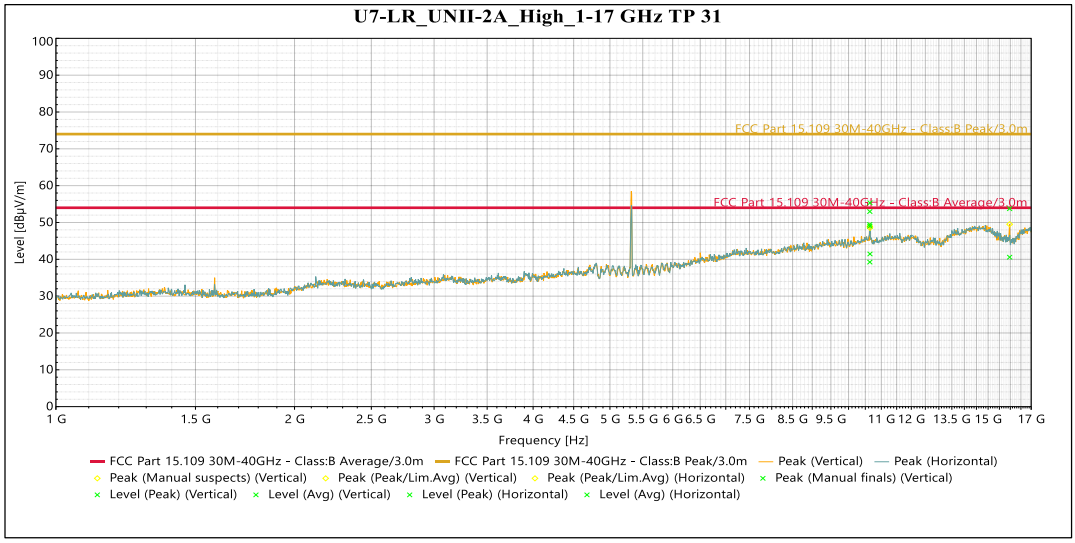
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.56 GHz	54.97	74.0	-19.03	314	3.319	Vertical	11.49
15.85 GHz	54.46	74.0	-19.54	41	2.826	Vertical	11.46
10.55 GHz	53.36	74.0	-20.64	15	1.5	Horizontal	11.48
14.78 GHz	55.97	74.0	-18.03	70	2.133	Horizontal	14.73
15.84 GHz	52.82	74.0	-21.18	9	3.138	Horizontal	11.46

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.56 GHz	41.26	54.0	-12.74	314	3.319	Vertical	11.49
15.85 GHz	40.47	54.0	-13.53	41	2.826	Vertical	11.46
10.55 GHz	40.22	54.0	-13.78	15	1.5	Horizontal	11.48
14.78 GHz	42.81	54.0	-11.19	70	2.133	Horizontal	14.73
15.84 GHz	39.80	54.0	-14.20	9	3.138	Horizontal	11.46

Table 7: Radiated Emissions 1 – 17 GHz at the Middle Frequency



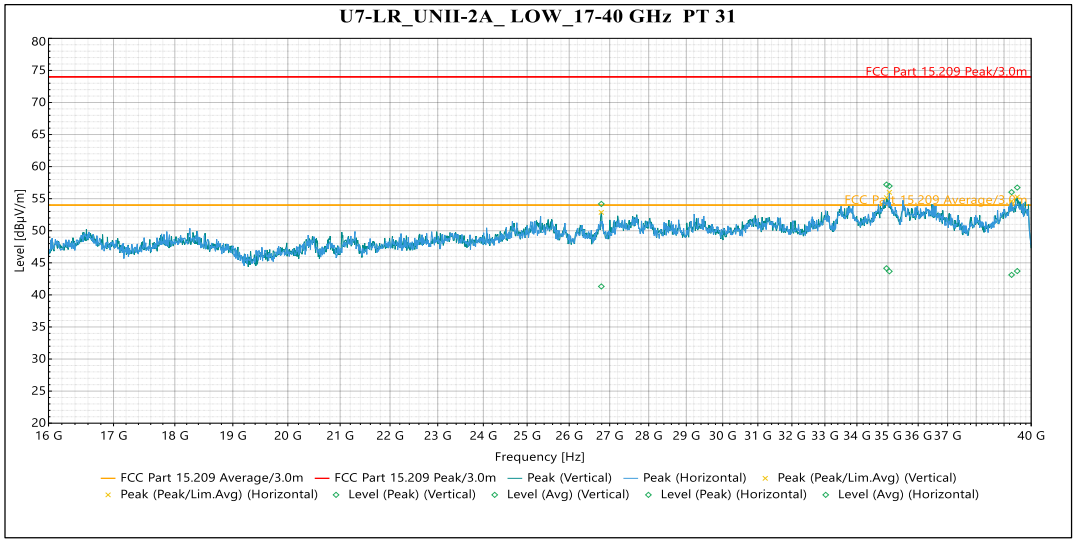
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.64 GHz	52.97	74.0	-21.03	346	3.81	Vertical	11.56
15.97 GHz	53.74	74.0	-20.26	47	2.827	Vertical	11.38
10.64 GHz	55.33	74.0	-18.67	1	1.847	Horizontal	11.55

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.64 GHz	39.24	54.0	-14.76	346	3.81	Vertical	11.56
15.97 GHz	40.58	54.0	-13.42	47	2.827	Vertical	11.38
10.64 GHz	41.45	54.0	-12.55	1	1.847	Horizontal	11.55

Table 8: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
26.79 GHz	54.18	74.0	-19.82	180	Vertical	2.71
34.95 GHz	57.20	74.0	-16.80	277	Vertical	5.05
39.48 GHz	56.73	74.0	-17.27	138	Vertical	3.43
35.05 GHz	56.97	74.0	-17.03	31	Horizontal	4.87
39.28 GHz	56.02	74.0	-17.98	295	Horizontal	3.19

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
26.79 GHz	41.32	54.0	-12.68	180	Vertical	2.71
34.95 GHz	44.15	54.0	-9.85	277	Vertical	5.05
39.48 GHz	43.71	54.0	-10.29	138	Vertical	3.43
35.05 GHz	43.67	54.0	-10.33	31	Horizontal	4.87
39.28 GHz	43.12	54.0	-10.88	295	Horizontal	3.19

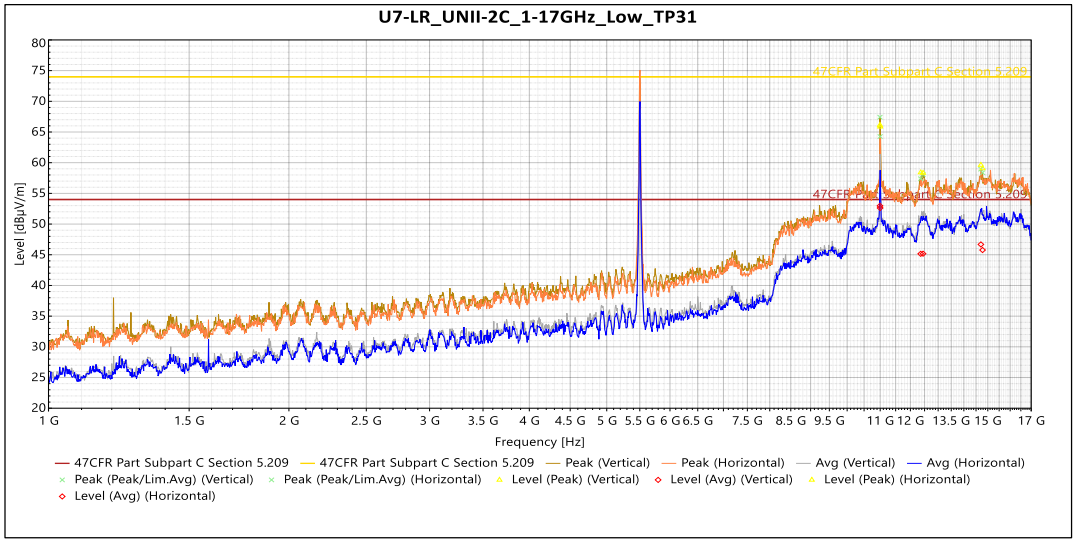
Table 9: Radiated Emissions 17 – 40 GHz at the Lowest Frequency (worse case)

5.5.3 UNII-2C

QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
35.26 MHz	34.55	40	-5.45	258	1.2	Vertical	-14.58
42.34 MHz	36.66	40	-3.34	268	1.2	Vertical	-18.41
707.94 MHz	25.82	47	-21.18	242	1	Vertical	-2.89
891.10 MHz	43.02	47	-3.98	105	3.51	Vertical	-1.73
914.98 MHz	25.26	47	-21.74	80	4	Vertical	-0.53
958.26 MHz	23.93	47	-23.07	146	1.49	Vertical	-0.29
152.24 MHz	33.84	40	-6.17	311	1.49	Horizontal	-16.48

Table 10: Radiated Emissions 30 – 1000 MHz



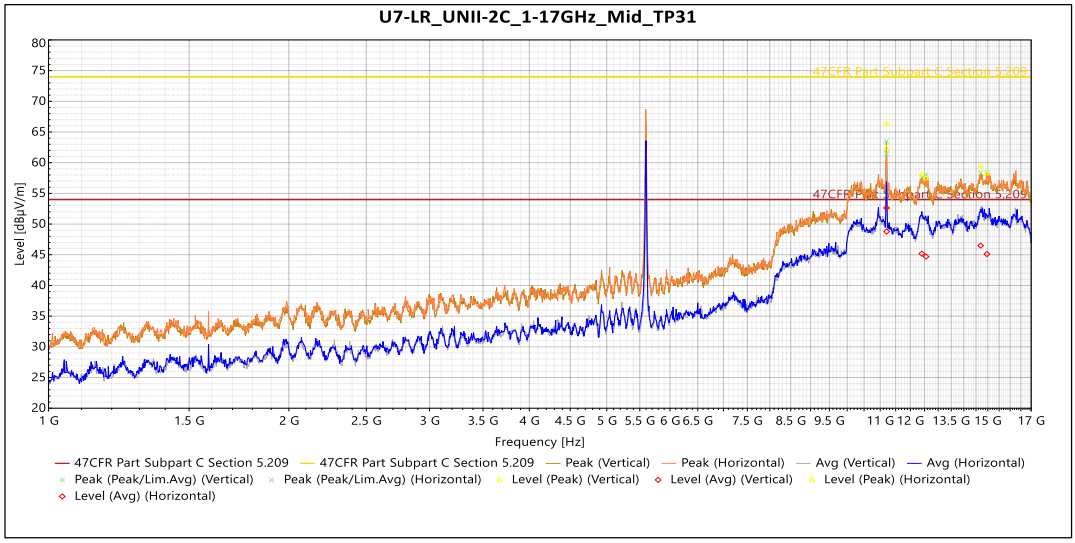
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.99 GHz	66.13	74.0	-7.87	279	1.714	Vertical	12.76
12.45 GHz	58.32	74.0	-15.68	44	1.714	Vertical	13.51
14.78 GHz	59.07	74.0	-14.93	308	4	Vertical	14.14
11.00 GHz	65.85	74.0	-8.15	308	4	Horizontal	12.74
12.36 GHz	58.39	74.0	-15.61	306	3.162	Horizontal	13.74
14.71 GHz	59.62	74.0	-14.38	291	3.165	Horizontal	15.08

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.99 GHz	52.97	54.0	-1.03	279	1.714	Vertical	12.76
12.45 GHz	45.17	54.0	-8.83	44	1.714	Vertical	13.51
14.78 GHz	45.77	54.0	-8.23	308	4	Vertical	14.14
11.00 GHz	52.62	54.0	-1.38	308	4	Horizontal	12.74
12.36 GHz	45.15	54.0	-8.85	306	3.162	Horizontal	13.74
14.71 GHz	46.68	54.0	-7.32	291	3.165	Horizontal	15.08

Table 11: Radiated Emissions 1 – 17 GHz at the Lowest Frequency



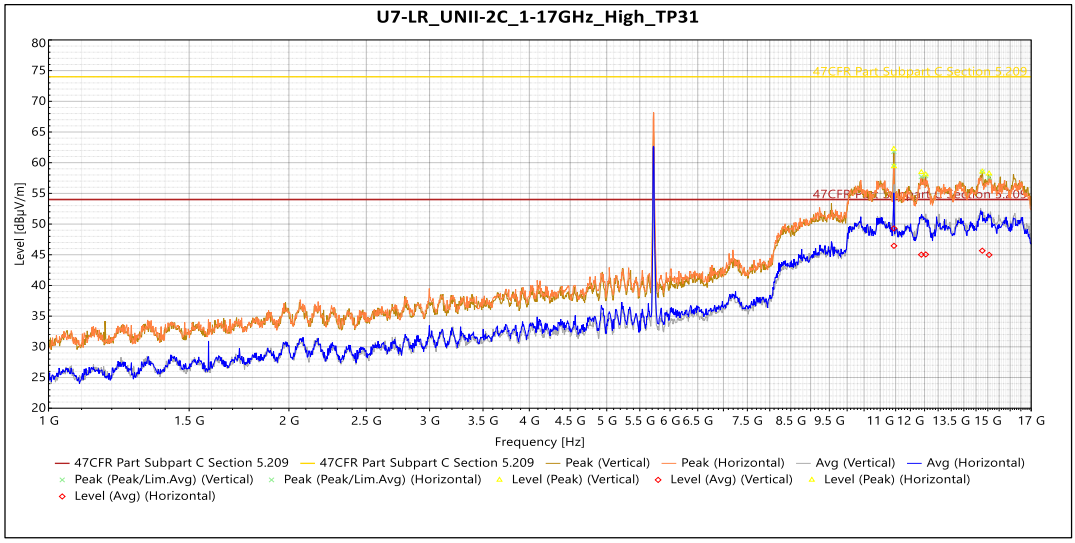
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.20 GHz	66.30	74.0	-7.70	266	1.5	Vertical	10.96
12.55 GHz	57.40	74.0	-16.60	19	1.714	Vertical	13.11
14.70 GHz	59.38	74.0	-14.62	312	1.714	Vertical	15.10
11.21 GHz	62.34	74.0	-11.66	290	1.714	Horizontal	10.99
12.40 GHz	58.05	74.0	-15.95	81	4	Horizontal	13.69
14.96 GHz	58.22	74.0	-15.78	178	2.604	Horizontal	13.56

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.20 GHz	52.63	54.0	-1.37	266	1.5	Vertical	10.96
12.55 GHz	44.70	54.0	-9.30	19	1.714	Vertical	13.11
14.70 GHz	46.49	54.0	-7.51	312	1.714	Vertical	15.10
11.21 GHz	48.79	54.0	-5.21	290	1.714	Horizontal	10.99
12.40 GHz	45.18	54.0	-8.82	81	4	Horizontal	13.69
14.96 GHz	45.12	54.0	-8.88	178	2.604	Horizontal	13.56

Table 12: Radiated Emissions 1 – 17 GHz at the Middle Frequency



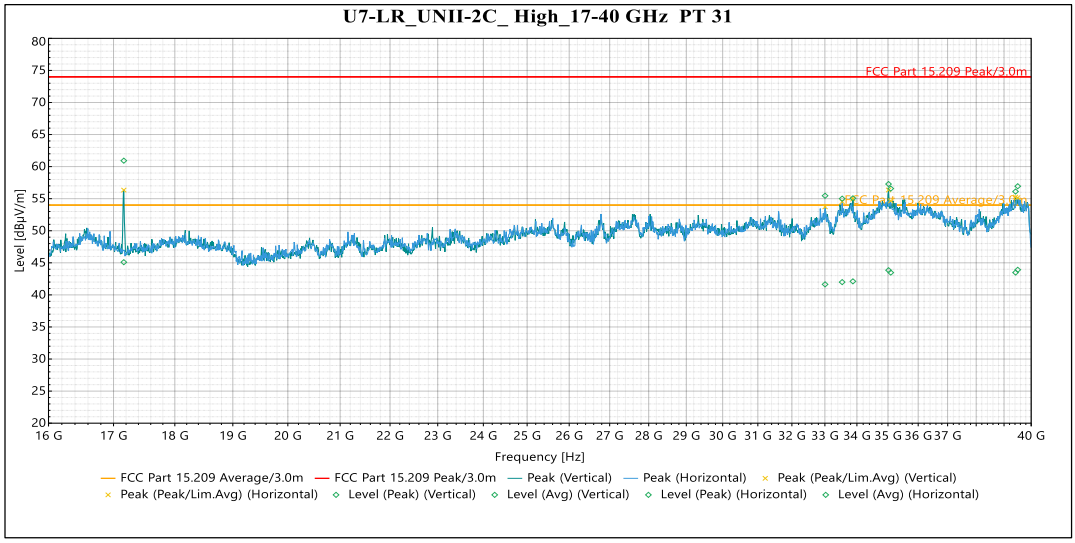
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.44 GHz	62.23	74.0	-11.77	262	1.714	Vertical	10.80
12.54 GHz	58.07	74.0	-15.93	220	1.714	Vertical	13.15
14.76 GHz	58.54	74.0	-15.46	127	1.714	Vertical	14.30
11.45 GHz	59.40	74.0	-14.60	206	1.714	Horizontal	10.81
12.39 GHz	58.45	74.0	-15.55	128	2.867	Horizontal	13.85
15.06 GHz	58.22	74.0	-15.78	345	2.041	Horizontal	13.59

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.44 GHz	49.30	54.0	-4.70	262	1.714	Vertical	10.80
12.54 GHz	45.05	54.0	-8.95	220	1.714	Vertical	13.15
14.76 GHz	45.66	54.0	-8.34	127	1.714	Vertical	14.30
11.45 GHz	46.45	54.0	-7.55	206	1.714	Horizontal	10.81
12.39 GHz	45.01	54.0	-8.99	128	2.867	Horizontal	13.85
15.06 GHz	44.98	54.0	-9.02	345	2.041	Horizontal	13.59

Table 13: Radiated Emissions 1 – 17 GHz at the Highest Frequency



Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.16 GHz	60.93	74.0	-13.07	67	Vertical	-0.78
33.87 GHz	55.06	74.0	-18.94	73	Vertical	3.27
35.02 GHz	57.28	74.0	-16.72	201	Vertical	5.01
39.42 GHz	56.11	74.0	-17.89	49	Vertical	3.21
33.01 GHz	55.46	74.0	-18.54	221	Horizontal	2.06
33.54 GHz	55.01	74.0	-18.99	321	Horizontal	3.29
35.09 GHz	56.57	74.0	-17.43	323	Horizontal	4.63
39.50 GHz	56.94	74.0	-17.06	43	Horizontal	3.49

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.16 GHz	45.10	54.0	-8.90	67	Vertical	-0.78
33.87 GHz	42.11	54.0	-11.89	73	Vertical	3.27
35.02 GHz	43.85	54.0	-10.15	201	Vertical	5.01
39.42 GHz	43.49	54.0	-10.51	49	Vertical	3.21
33.01 GHz	41.64	54.0	-12.36	221	Horizontal	2.06
33.54 GHz	41.99	54.0	-12.01	321	Horizontal	3.29
35.09 GHz	43.47	54.0	-10.53	323	Horizontal	4.63
39.50 GHz	43.91	54.0	-10.09	43	Horizontal	3.49

Table 14: Radiated Emissions 17 – 40 GHz at the Highest Frequency (worse case)

5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 662911 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission. Results of this testing are summarized. With a 6 dBi antenna, the conducted limit for power spectral density is 11 dBm.

See Section 2.2 for directional gain calculation.

Results of this testing are summarized.

5.6.1 UNII-2A

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5260	Mcs0_Nss3	16	10.34	6	11	-0.66
OFDM 20	5280	Mcs0_Nss3	16	10.53	6	11	-0.47
OFDM 20	5320	Mcs0_Nss3	16	10.36	6	11	-0.64
HE 20	5260	Mcs0_Nss3	16	10.12	6	11	-0.88
HE 20	5280	Mcs0_Nss3	16	10.13	6	11	-0.87
HE 20	5320	Mcs0_Nss3	16	10.05	6	11	-0.95
HE 40	5270	Mcs0_Nss3	16	8.48	6	11	-2.52
HE 40	5310	Mcs0_Nss3	16	8.26	6	11	-2.74
HE 80	5290	Mcs0_Nss3	17	4.88	6	11	-6.12
HE 160	5250	Mcs0_Nss3	18	3.42	6	11	-7.58

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5260	Mcs0_Nss1	11	5.34	6	6.23	-0.89
OFDM 20	5280	Mcs0_Nss1	11	5.53	6	6.23	-0.70
OFDM 20	5320	Mcs0_Nss1	11	5.36	6	6.23	-0.87
HE 20	5260	Mcs0_Nss1	12	6.12	6	6.23	-0.11

HE 20	5280	Mcs0_Nss1	12	6.13	6	6.23	-0.10
HE 20	5320	Mcs0_Nss1	12	6.05	6	6.23	-0.18
HE 40	5270	Mcs0_Nss1	13	5.48	6	6.23	-0.75
HE 40	5310	Mcs0_Nss1	13	5.26	6	6.23	-0.97
HE 80	5290	Mcs0_Nss1	17	4.88	6	6.23	-1.35
HE 160	5250	Mcs0_Nss1	18	3.42	6	6.23	-2.81

5.6.2 UNII-2C

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5500	Mcs0_Nss3	16	9.99	6	11	-1.01
OFDM 20	5600	Mcs0_Nss3	16	9.92	6	11	-1.08
OFDM 20	5720	Mcs0_Nss3	17	10.70	6	11	-0.30
HE 20	5500	Mcs0_Nss3	17	10.67	6	11	-0.33
HE 20	5600	Mcs0_Nss3	17	10.90	6	11	-0.10
HE 20	5720	Mcs0_Nss3	17	10.48	6	11	-0.52
HE 40	5510	Mcs0_Nss3	17	8.99	6	11	-2.01
HE 40	5590	Mcs0_Nss3	17	8.90	6	11	-2.10
HE 40	5710	Mcs0_Nss3	17	8.44	6	11	-2.56
HE 80	5530	Mcs0_Nss3	18	5.56	6	11	-5.44
HE 80	5610	Mcs0_Nss3	18	5.53	6	11	-5.47
HE 80	5690	Mcs0_Nss3	19	6.30	6	11	-4.70
HE 160	5570	Mcs0_Nss3	18	2.83	6	11	-8.17

Modulation (BW)	Freq. (MHz)	Data Rate	TP Setting	Total Sum PSD EIRP (dBm)	Antenna Gain (dBi)	Limit (dBm)	Margin (dBm)
OFDM 20	5500	Mcs0_Nss1	12	5.99	6	6.23	-0.24
OFDM 20	5600	Mcs0_Nss1	12	5.92	6	6.23	-0.31
OFDM 20	5720	Mcs0_Nss1	12	5.70	6	6.23	-0.53
HE 20	5500	Mcs0_Nss1	12	5.67	6	6.23	-0.56

HE 20	5600	Mcs0_Nss1	12	5.90	6	6.23	-0.33
HE 20	5720	Mcs0_Nss1	12	5.48	6	6.23	-0.75
HE 40	5510	Mcs0_Nss1	14	5.99	6	6.23	-0.24
HE 40	5590	Mcs0_Nss1	14	5.90	6	6.23	-0.33
HE 40	5710	Mcs0_Nss1	14	5.44	6	6.23	-0.79
HE 80	5530	Mcs0_Nss1	18	5.56	6	6.23	-0.67
HE 80	5610	Mcs0_Nss1	18	5.53	6	6.23	-0.70
HE 80	5690	Mcs0_Nss1	18	5.30	6	6.23	-0.93
HE 160	5570	Mcs0_Nss1	18	2.83	6	6.23	-4.40

Result

The maximum average power spectral density was less than the limit of 11 dBm (adjusted Nss1 limit of 6.23 dBm); therefore, the EUT complies with the specification.

5.7 DFS Requirement

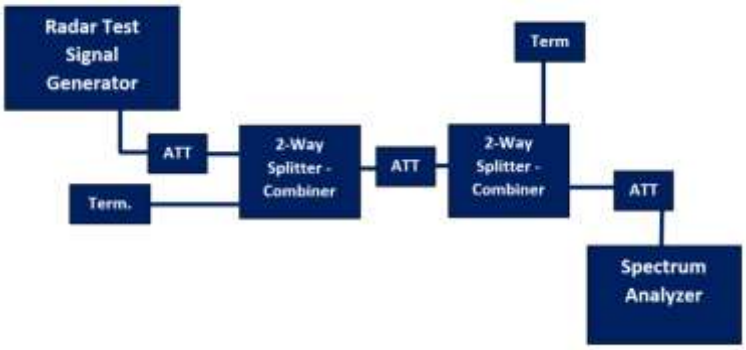
This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

The product passes all required DFS tests for a master with radar detection.

Information	Status	
Possible Antenna/s	Integral 6 dBi	
Antenna used for test	Integral 6 dBi	
Operating mode	Master	
If Client	N/A	
Port used for testing	J15	
EIRP range	> 200 milliwatts	
Impedance of port	50 ohms	
Channel loading technique	Data transfer was enacted to achieve a minimum channel loading of approximately 17%	
Antenna measurement technique	See note 1	
Time of power-on cycle	60 seconds	
Detection threshold level	-62.85 dBm	

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not Required	Yes
DFS Detection Threshold	Yes	Not Required	Yes
Channel Availability Check Time	Yes	Not Required	Not Required
U-NII Detection Bandwidth	Yes	Not Required	Yes

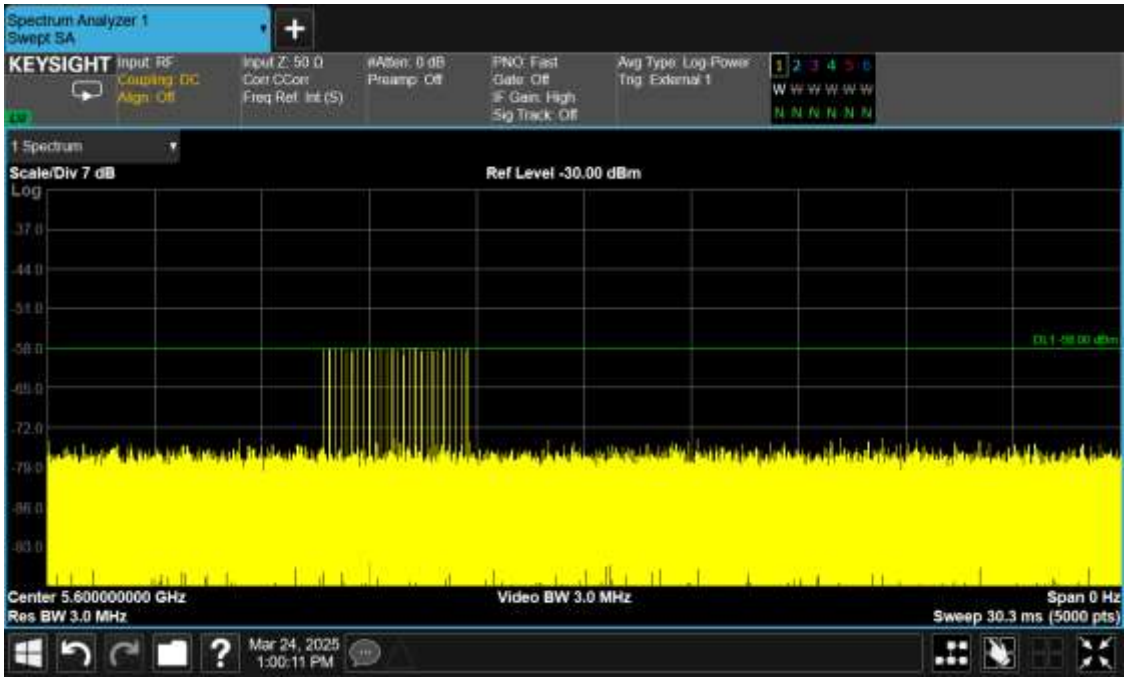
Requirement	Operational Mode	
	Master or Client Client Without Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not Required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not Required



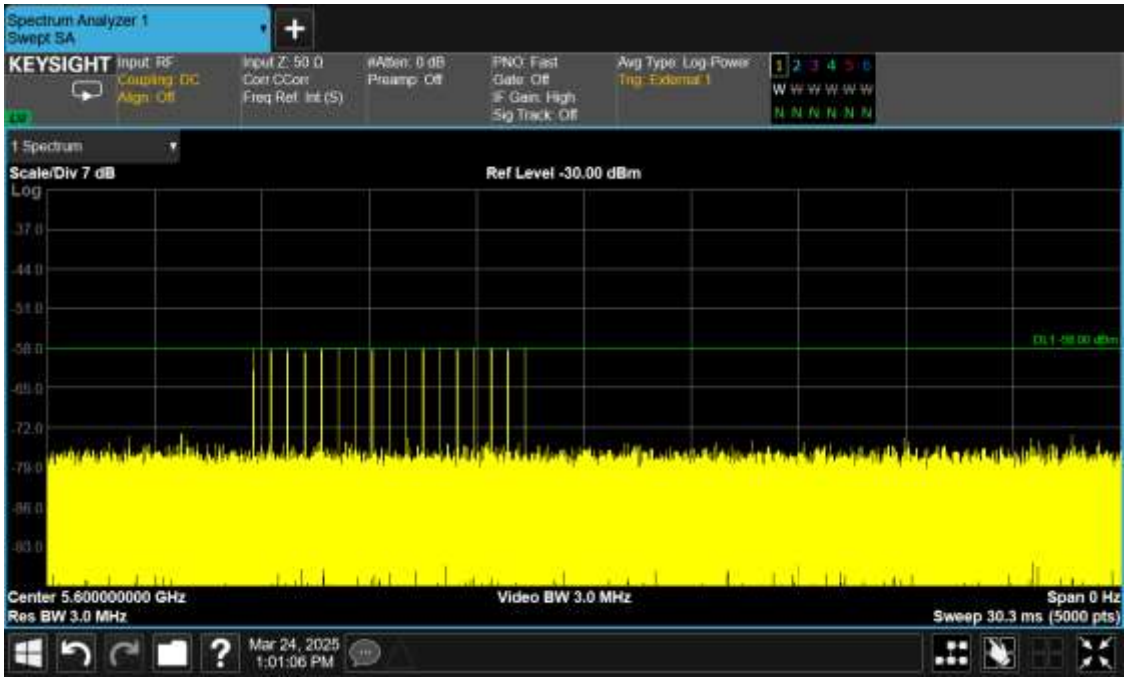
Maximum Transmit Power	**Value (See Notes 1, 2, and 3)**
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Plot 1: Radar Level 0

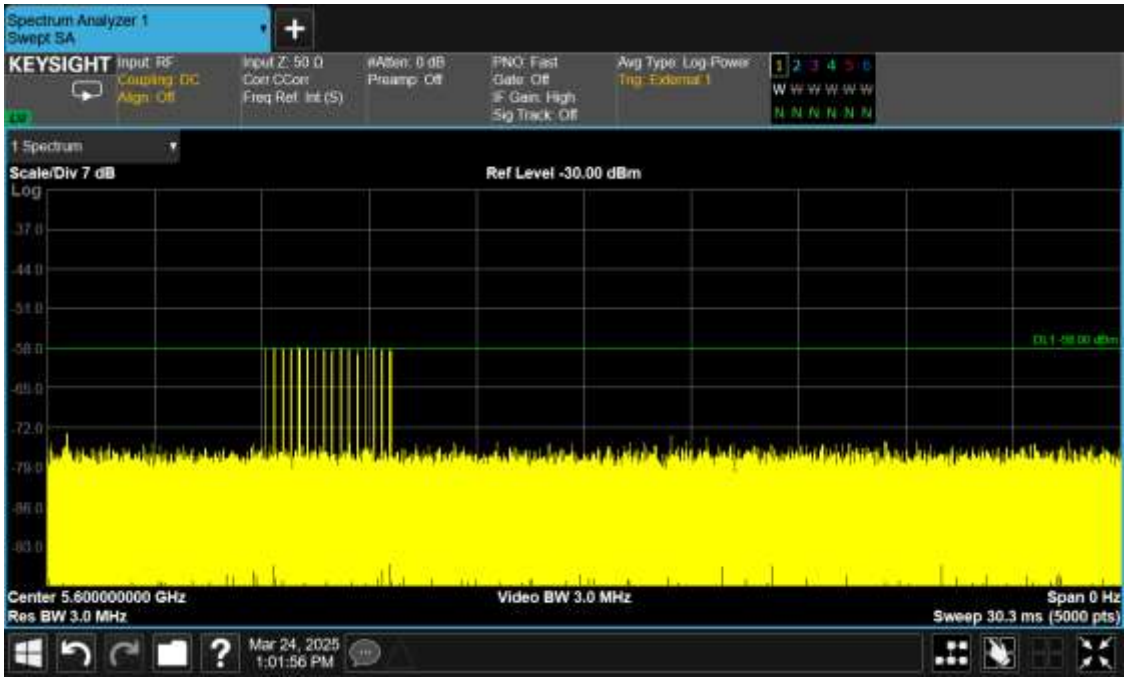
Plot 2: Radar Level 1



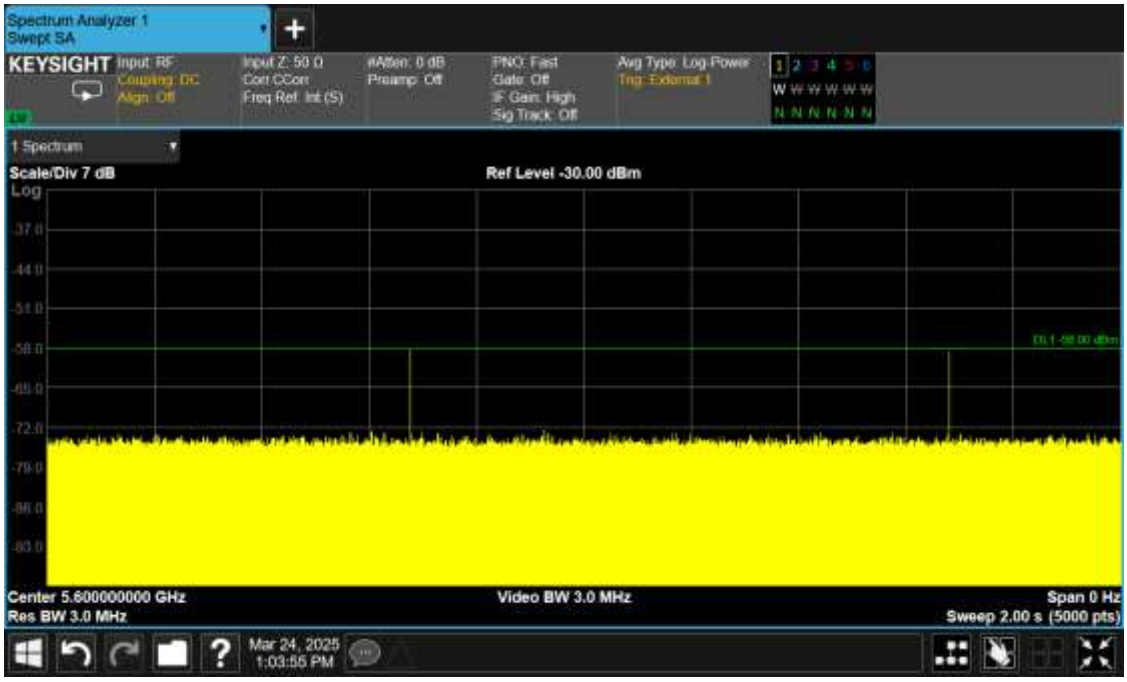
Plot 3: Radar Level 2



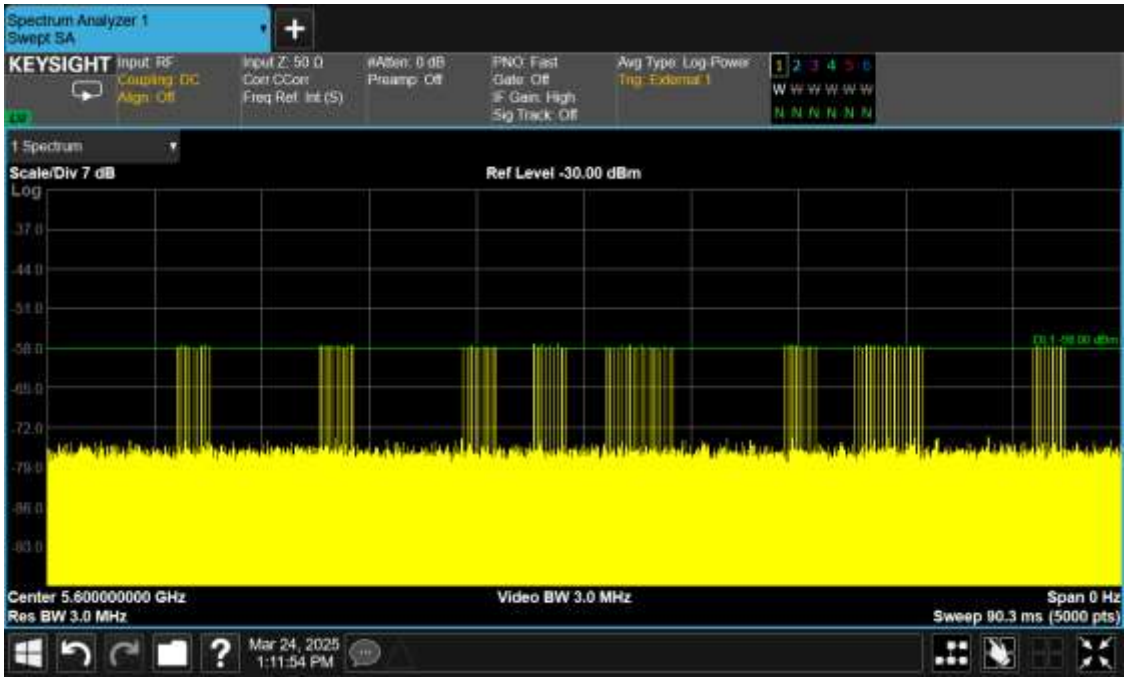
Plot 4: Radar Level 3



Plot 5: Radar Level 4



Plot 6: Radar Level 5



Plot 7: Radar Level 6

5.7.1 Channel Availability Check (CAC)

The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-east 1 minute shall be monitored on the intended operating frequency. For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots indicate initial beacons.

For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.

Plot 8: DUT Turn On

Plot 9: Beginning


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Off
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
Atten: 10 dB
Preamp: Off
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Level 0.00 dBm
Mkr3 109.5 s
-38.37 dBm
Log
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
Center 5.600000000 GHz
Res BW 3.0 MHz
Video BW 3.0 MHz
Span 0 Hz
Sweep 150 s (5000 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 t 113.7 s -62.65 dBm
2 N 1 t 53.70 s -62.83 dBm
3 N 1 t 109.5 s -38.37 dBm
4
5
6
Mar 24, 2025
11:20:27 AM

Plot 10: End

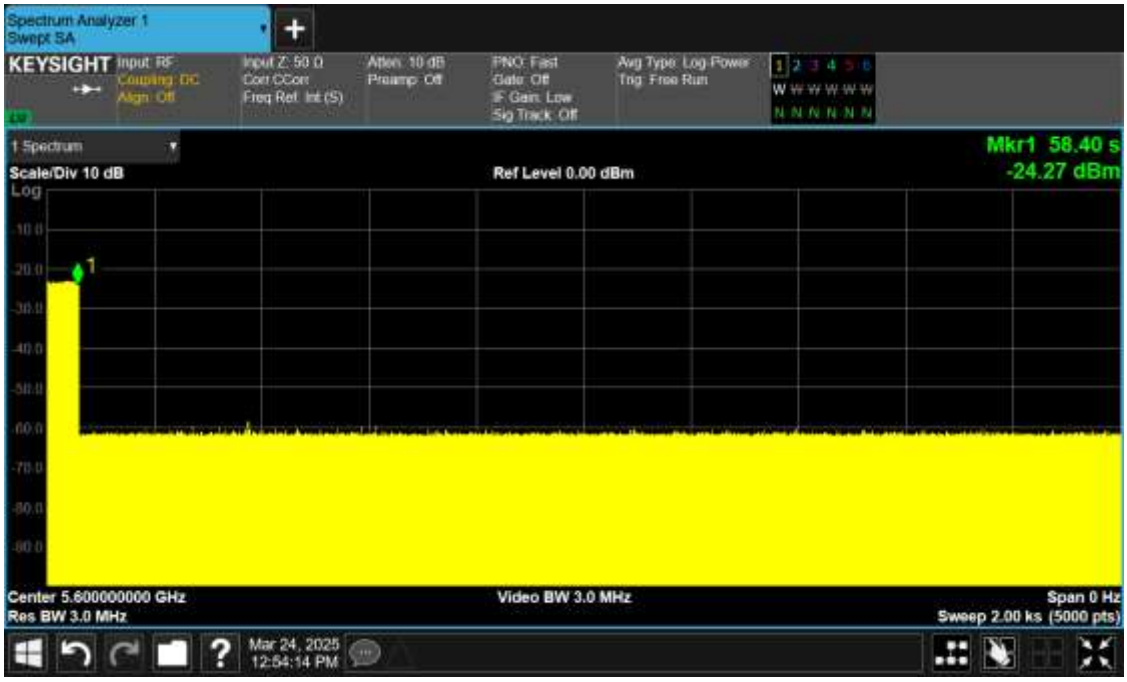
5.7.2 In-service Monitoring

Channel Move Time	10 seconds
Channel Closing Transmission Time	200 ms + aggregate of 60 ms over remaining 10 second period
Non-occupancy period	Minimum 30 minutes

Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits.
One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.
Please see plots below.
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.

Plot 11: Channel Close

Plot 12: Channel Move



Plot 13: Non-Occupancy

5.7.3 DFS Detection Bandwidth

20 MHz

EUT Frequency = 5600 MHz ; Bandwidth = 20 MHz											
Radar Frequency MHz	**DFS Detection Trials (1 = Detection, 0 = No Detection)**										**Detection Rate %**
	Trials										
	1	2	3	4	5	6	7	8	9	10	
5590	0	1	1	1	1	1	1	1	1	1	90
5595	1	1	1	1	1	1	1	1	1	1	100
5600	1	1	1	1	1	1	1	1	1	1	100
5605	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
Parameter											Value
U-NII 99% Transmission Power Bandwidth:											18.87
Lowest frequency with at least 90% detection (F_L):											5590
Highest frequency with at least 90% detection (F_H):											5610
Detection Bandwidth (F_H - F_L):											20
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:											106%

40 MHz

EUT Frequency = 5590 MHz ; Bandwidth = 40 MHz											
Radar Frequency MHz	**DFS Detection Trials (1 = Detection, 0 = No Detection)**										**Detection Rate %**
	Trials										
	1	2	3	4	5	6	7	8	9	10	
5570	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	0	1	1	1	1	1	90
5585	1	1	1	1	1	1	1	1	0	1	90
5590	1	1	1	1	1	1	1	0	1	1	90
5595	0	1	1	1	1	1	1	1	1	1	90
5600	1	1	1	1	1	1	1	1	0	1	90
5605	1	1	1	1	1	0	1	1	1	1	90
5610	1	1	1	1	1	1	1	1	1	1	100
Parameter											Value
U-NII 99% Transmission Power Bandwidth:											37.63
Lowest frequency with at least 90% detection (F_L):											5570
Highest frequency with at least 90% detection (F_H):											5610
Detection Bandwidth (F_H - F_L):											40
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:											106%

80 MHz

EUT Frequency = 5610 MHz ; Bandwidth = 80 MHz											
Radar Frequency MHz	**DFS Detection Trials (1 = Detection, 0 = No Detection)**										**Detection Rate %**
	Trials										
	1	2	3	4	5	6	7	8	9	10	
5570	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5585	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	1	1	1	1	1	100
5595	1	1	1	1	1	1	1	1	1	1	100
5600	1	1	1	1	1	1	1	1	1	1	100
5605	0	1	1	1	1	1	1	1	1	1	90
5610	1	1	1	1	1	1	1	1	1	1	100
5615	1	1	1	1	1	1	1	1	1	1	100
5620	1	1	1	1	1	1	1	1	1	1	100
5625	1	1	1	1	0	1	1	1	1	1	90
5630	1	1	1	1	1	1	1	1	1	1	100
5635	1	1	1	1	1	1	1	1	1	1	100
5640	1	1	1	1	1	1	1	1	1	1	100
5645	1	1	1	0	1	1	1	1	1	1	90
5650	1	1	1	1	1	1	1	1	1	1	100

Parameter	Value
U-NII 99% Transmission Power Bandwidth:	76.63
Lowest frequency with at least 90% detection (F_L):	5570
Highest frequency with at least 90% detection (F_H):	5650
Detection Bandwidth (F_H - F_L):	80
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:	104%

160 MHz

EUT Frequency = 5570 MHz ; Bandwidth = 160 MHz											
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %
	Trials										
	1	2	3	4	5	6	7	8	9	10	
5490	1	1	1	0	1	1	1	1	1	1	90
5495	1	1	1	1	1	1	1	1	1	1	100
5500	1	1	1	1	1	1	1	1	1	1	100
5505	1	1	1	1	1	1	1	1	1	1	100
5510	1	1	1	1	1	1	1	1	1	1	100
5515	1	1	1	1	1	1	1	1	1	1	100
5520	1	1	1	1	1	1	1	1	1	1	100
5525	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5535	1	1	1	1	1	1	1	1	1	1	100
5540	1	1	1	1	1	1	1	1	1	1	100
5545	1	1	1	1	1	1	1	1	1	1	100
5550	1	1	1	0	1	1	1	1	1	1	90
5555	1	1	1	1	1	1	1	1	0	1	90
5560	1	1	1	1	0	1	1	1	1	1	90
5565	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5575	1	1	0	1	1	1	1	1	1	1	90
5580	1	1	1	1	1	1	1	1	1	1	100
5585	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	0	1	1	1	1	90
5595	1	1	1	0	1	1	1	1	1	1	90
5600	1	1	1	1	1	1	0	1	1	1	90
5605	1	1	1	1	1	1	1	0	1	1	90
5610	1	1	1	1	1	1	1	1	1	1	100
5615	1	1	1	1	1	0	1	1	1	1	90
5620	1	0	1	1	1	1	1	1	1	1	90
5625	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	0	1	1	1	1	1	1	1	90
5635	1	1	1	1	1	0	1	1	1	1	90
5640	1	1	1	1	1	1	1	1	1	0	90
5645	1	1	1	1	0	1	1	1	1	1	90
5650	0	1	1	1	1	1	1	1	1	1	90
Parameter											Value
U-NII 99% Transmission Power Bandwidth:											154.8
Lowest frequency with at least 90% detection (F_L):											5490

Highest frequency with at least 90% detection (F_H):	5650
Detection Bandwidth (F_H - F_L):	160
Detection Bandwidth percentage of 99% Transmission Power Bandwidth:	103%

5.7.4 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
Please see data below.

Radar Type	Min successful detection (%)	Minimum Trials
1	60	30
2	60	30
3	60	30
4	60	30
Types 1 - 4	80	120
5	80	30
6	70	30

20 MHz

Summary			
Type	**Detections**	**Trials**	**Detection Probability**
Type 1	27	30	90%
Type 2	28	30	93%
Type 3	25	30	83%
Type 4	27	30	90%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	107	120	89%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	40	1	1351	y
2	24	1	2246	y
3	32	1	1687	n
4	22	1	2423	y
5	60	1	891	y
6	28	1	1930	n
7	21	1	2623	y
8	25	1	2195	y
9	25	1	2148	y
10	56	1	949	y
11	25	1	2108	y
12	18	1	2998	y
13	26	1	2043	y
14	59	1	901	y
15	53	1	998	y
16	20	1	2711	y
17	22	1	2497	n
18	37	1	1442	y
19	20	1	2663	y
20	18	1	3024	y
21	19	1	2925	y
22	40	1	1332	y
23	22	1	2438	y
24	28	1	1902	y
25	20	1	2681	y
26	31	1	1714	y
27	26	1	2085	y
28	76	1	694	y
29	27	1	1990	y
30	20	1	2719	y
				27/30: 90%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	27	4.7	197	y
2	27	4.2	202	y
3	28	1.3	227	y
4	26	1.4	159	n
5	27	1.1	184	y
6	28	1.2	171	y
7	28	2.6	199	y
8	26	1.5	222	y
9	23	3.3	190	y
10	28	4.5	170	y
11	24	1.7	222	y
12	29	4.9	154	y
13	26	3.5	210	y
14	27	3.2	192	y
15	27	2.5	196	y
16	23	4.3	164	y
17	27	4.3	154	y
18	27	3.5	204	n
19	27	2.6	153	y
20	28	2.5	183	y
21	27	2.2	213	y
22	29	1.2	196	y
23	24	3.8	216	y
24	25	1.1	150	y
25	24	1.3	160	y
26	28	4.4	155	y
27	23	1.2	188	y
28	28	2.5	167	y
29	25	4.5	163	y
30	24	1.1	214	y
				28/30: 93.3%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	17	9.1	286	y
2	16	6.1	332	y
3	17	9.7	224	y
4	18	8	500	y
5	17	6.3	423	y
6	18	8.6	404	n
7	17	6.2	354	n
8	17	8.4	498	y
9	18	6.1	360	y
10	17	10	385	y
11	18	8.8	259	y
12	17	9.7	469	n
13	18	7.6	234	y
14	17	8.1	492	y
15	17	8.5	376	y
16	17	6.1	298	y
17	17	9.8	478	y
18	17	8.2	257	y
19	17	8.4	386	y
20	16	9.9	209	y
21	17	7.3	267	y
22	16	8	228	y
23	16	6.7	463	n
24	16	8	396	y
25	16	9.7	330	y
26	17	6	270	n
27	16	6.6	500	y
28	16	6.4	455	y
29	16	8.6	353	y
30	17	10	385	y
				25/30: 83.3%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	15	19.4	344	y
2	15	15.9	494	y
3	14	19.6	425	y
4	12	17	320	y
5	14	13.7	218	y
6	15	18.4	415	y
7	12	11.6	239	y
8	14	12.8	321	y
9	13	16.2	295	n
10	14	16.1	448	y
11	15	15.4	227	y
12	14	15.7	423	y
13	16	18.6	279	y
14	14	11.1	263	y
15	14	16	213	y
16	13	13.6	245	n
17	15	19.6	419	y
18	14	18.8	404	y
19	13	17.8	362	y
20	14	17.8	455	y
21	13	19.9	443	y
22	14	18.6	372	n
23	13	15.1	449	y
24	13	14	259	y
25	14	12.3	449	y
26	12	12.1	261	y
27	16	18.5	286	y
28	15	15.4	440	y
29	13	19.7	424	y
30	12	14.8	482	y
				27/30: 90%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	**Detection (yes/no)**	**Chirp Width (MHz)**	**Subset**	**Fc**
1	y	19	1	5600
2	y	11	1	5600
3	y	13	1	5600
4	y	8	1	5600
5	y	12	1	5600
6	y	8	1	5600
7	y	8	1	5600
8	y	18	1	5600
9	y	10	1	5600
10	y	6	1	5600
11	y	10	2	5594
12	y	8	2	5593.2
13	y	20	2	5598
14	y	18	2	5597.2
15	y	18	2	5597.2
16	y	11	2	5594.4
17	y	9	2	5593.6
18	y	9	2	5593.6
19	y	18	2	5597.2
20	y	7	2	5592.8
21	y	7	3	5607.2
22	y	16	3	5603.6
23	y	16	3	5603.6
24	y	5	3	5608
25	y	11	3	5605.6
26	y	9	3	5606.4
27	y	17	3	5603.2
28	y	9	3	5606.4
29	y	9	3	5606.4
30	y	8	3	5606.8

30/30: 100%

TYPE 6 S	Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Detection (yes/no)**
1	y
2	y
3	y
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
	30/30: 100%

40 MHz

Summary			
Type	**Detections**	**Trials**	**Detection Probability**
Type 1	29	30	97%
Type 2	27	30	90%
Type 3	26	30	87%
Type 4	25	30	83%
Type 5	29	30	97%
Type 6	30	30	100%
Aggregate 1-4	107	120	89%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	55	1	963	y
2	58	1	913	y
3	35	1	1531	y
4	22	1	2501	y
5	34	1	1590	y
6	23	1	2369	y
7	22	1	2413	y
8	56	1	956	n
9	19	1	2926	y
10	63	1	840	y
11	22	1	2406	y
12	28	1	1911	y
13	32	1	1667	y
14	21	1	2550	y
15	23	1	2371	y
16	23	1	2356	y
17	31	1	1746	y
18	21	1	2570	y
19	51	1	1039	y
20	39	1	1370	y
21	61	1	877	y
22	18	1	3060	y
23	52	1	1020	y
24	18	1	2946	y
25	29	1	1877	y
26	25	1	2157	y
27	34	1	1579	y
28	50	1	1063	y
29	54	1	983	y
30	43	1	1227	y
				29/30: 96.7%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	28	1.8	202	y
2	28	1.3	224	y
3	24	2.2	151	y
4	23	3.4	227	y
5	29	1.2	156	y
6	26	2.6	174	y
7	28	3.5	157	y
8	28	1.1	197	y
9	27	4.9	163	y
10	23	1.6	184	y
11	24	1.6	187	y
12	25	3.6	230	y
13	24	3.5	185	y
14	25	4.2	191	y
15	27	4.3	189	y
16	23	3	161	y
17	28	4.9	227	y
18	25	1	185	y
19	25	4.1	202	n
20	26	4.7	216	y
21	24	4.5	160	y
22	25	2.1	214	n
23	27	4.3	201	y
24	27	4.9	225	n
25	24	3.5	209	y
26	28	4.5	172	y
27	26	4.2	225	y
28	24	3.8	186	y
29	29	3.1	201	y
30	25	4.5	206	y
				27/30: 90%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	8.2	273	y
2	17	6.2	467	y
3	17	9.2	319	n
4	17	7.8	373	y
5	18	7.2	380	y
6	18	6	362	n
7	17	7.1	477	y
8	18	6.9	482	y
9	17	6.9	329	y
10	17	7.5	427	y
11	16	6.9	216	y
12	17	7.2	273	y
13	17	10	249	n
14	17	8.8	423	y
15	16	6.8	383	y
16	17	9.1	425	y
17	16	7.7	205	y
18	16	6.3	439	y
19	17	6.5	339	y
20	18	6.5	440	y
21	17	8.5	358	y
22	16	9.1	468	y
23	16	9.9	215	y
24	16	9.9	276	y
25	18	8.9	320	y
26	17	9.2	240	y
27	17	8.1	277	y
28	17	9.9	466	y
29	16	9.5	292	n
30	16	7	286	y
				26/30: 86.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	14	12.8	356	n
2	13	14.3	348	y
3	16	19.7	386	n
4	16	12.3	427	y
5	16	13.6	340	y
6	15	18.1	279	y
7	14	15.2	256	y
8	12	12.7	285	y
9	16	14.2	462	y
10	16	16.5	268	y
11	14	18.5	486	n
12	12	17.2	217	y
13	16	11.2	382	n
14	13	16.2	223	y
15	15	17.9	304	y
16	13	12.1	362	y
17	15	14.6	399	y
18	16	14.8	430	y
19	13	19.9	478	y
20	13	11	210	y
21	14	14.6	467	n
22	13	18.3	371	y
23	14	13.5	462	y
24	12	16.5	239	y
25	15	13.7	210	y
26	15	14.2	492	y
27	13	12.4	234	y
28	15	19.1	293	y
29	13	13.7	371	y
30	14	13.8	355	y
				25/30: 83.3%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	**Detection (yes/no)**	**Chirp Width (MHz)**	**Subset**	**Fc**
1	y	15	1	5500
2	y	10	1	5500
3	y	11	1	5500
4	y	10	1	5500
5	y	8	1	5500
6	y	8	1	5500
7	y	17	1	5500
8	y	5	1	5500
9	y	13	1	5500
10	y	12	1	5500
11	y	6	2	5493.4
12	y	6	2	5493.4
13	y	11	2	5495.4
14	y	19	2	5498.6
15	n	13	2	5496.2
16	y	8	2	5494.2
17	y	13	2	5496.2
18	y	18	2	5498.2
19	y	11	2	5495.4
20	y	19	2	5498.6
21	y	20	3	5501
22	y	14	3	5503.4
23	y	5	3	5507
24	y	16	3	5502.6
25	y	20	3	5501
26	y	9	3	5505.4
27	y	13	3	5503.8
28	y	18	3	5501.8
29	y	19	3	5501.4
30	y	15	3	5503

29/30: 96.7%

TYPE 6 S	Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Detection (yes/no)**
1	y
2	y
3	y
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
	30/30: 100%

80 MHz

Summary			
Type	**Detections**	**Trials**	**Detection Probability**
Type 1	27	30	90%
Type 2	26	30	87%
Type 3	24	30	80%
Type 4	24	30	80%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	101	120	84%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	23	1	2370	y
2	28	1	1887	y
3	59	1	894	y
4	78	1	677	y
5	22	1	2402	y
6	22	1	2420	y
7	28	1	1906	y
8	21	1	2602	y
9	36	1	1466	y
10	45	1	1188	y
11	29	1	1865	y
12	32	1	1675	y
13	18	1	2974	y
14	38	1	1387	y
15	19	1	2775	n
16	68	1	784	y
17	43	1	1239	y
18	65	1	822	y
19	37	1	1434	y
20	32	1	1699	y
21	23	1	2334	y
22	21	1	2604	y
23	20	1	2733	y
24	56	1	942	n
25	20	1	2691	y
26	68	1	783	n
27	29	1	1848	y
28	39	1	1362	y
29	31	1	1738	y
30	97	1	547	y
				27/30: 90%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	24	2.9	170	y
2	27	4.9	195	y
3	29	3.3	187	n
4	26	3.9	228	y
5	27	2	178	y
6	29	1.3	167	y
7	24	1.6	171	y
8	27	1.7	175	y
9	27	2.8	168	y
10	26	2.1	172	y
11	25	3.2	197	n
12	24	3	199	y
13	23	4.1	229	y
14	24	4.1	170	y
15	23	4	190	y
16	27	2.1	191	y
17	24	3.7	181	y
18	23	4.6	220	y
19	26	4.6	168	y
20	25	3.4	162	y
21	27	4.6	181	y
22	29	2.5	162	y
23	27	1.6	161	n
24	26	1.6	183	n
25	28	2.2	209	y
26	24	4.6	177	y
27	27	1.4	177	y
28	24	3	198	y
29	25	4.2	160	y
30	27	3.7	169	y
				26/30: 86.7%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	9	208	y
2	17	7.4	222	y
3	16	7.7	315	y
4	17	8.1	214	n
5	17	9.7	388	y
6	18	8.5	279	y
7	17	6.6	367	y
8	18	6.8	329	y
9	17	9.6	423	y
10	17	10	364	y
11	17	6.3	383	y
12	18	6.8	385	y
13	17	7.4	202	y
14	17	6.3	468	y
15	16	8.8	487	n
16	18	7.7	336	y
17	17	6.2	342	y
18	17	9	229	y
19	17	8	483	y
20	18	9.1	336	y
21	18	7.5	298	y
22	17	8.1	267	y
23	17	8.4	211	n
24	17	9.4	360	y
25	17	8.1	500	y
26	17	7.7	284	n
27	18	9.6	329	y
28	17	8.7	366	y
29	16	6	281	n
30	16	9.7	485	n
				24/30: 80%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	14	13.8	415	y
2	13	15	354	n
3	13	15.3	357	y
4	12	15.4	357	y
5	16	13.4	461	y
6	14	17.1	351	n
7	16	12.8	349	y
8	14	11.7	266	y
9	15	18.2	452	n
10	14	17.6	380	y
11	13	12.5	241	y
12	15	13.5	378	y
13	12	17.1	325	n
14	13	15.5	357	y
15	12	17.7	456	y
16	12	15.9	236	y
17	13	19.3	319	n
18	15	15.2	428	y
19	16	16	280	y
20	14	19.5	437	y
21	15	17	202	y
22	15	14	218	y
23	15	12	216	y
24	14	17.7	246	y
25	12	15.4	366	y
26	16	11.6	479	y
27	13	16.2	314	n
28	14	11.5	221	y
29	16	13.2	409	y
30	13	15.6	286	y
				24/30: 80%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	**Detection (yes/no)**	**Chirp Width (MHz)**	**Subset**	**Fc**
1	y	6	1	5610
2	y	16	1	5610
3	y	18	1	5610
4	y	19	1	5610
5	y	11	1	5610
6	y	18	1	5610
7	y	19	1	5610
8	y	16	1	5610
9	y	14	1	5610
10	y	5	1	5610
11	y	16	2	5586.4
12	y	16	2	5586.4
13	y	6	2	5582.4
14	y	12	2	5584.8
15	y	20	2	5588
16	y	19	2	5587.6
17	y	20	2	5588
18	y	12	2	5584.8
19	y	12	2	5584.8
20	y	13	2	5585.2
21	y	20	3	5642
22	y	6	3	5647.6
23	y	18	3	5642.8
24	y	11	3	5645.6
25	y	8	3	5646.8
26	y	17	3	5643.2
27	y	20	3	5642
28	y	12	3	5645.2
29	y	14	3	5644.4
30	y	6	3	5647.6

30/30: 100%

TYPE 6 S	Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Detection (yes/no)**
1	y
2	y
3	y
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
	30/30: 100%

160 MHz

Summary			
Type	**Detections**	**Trials**	**Detection Probability**
Type 1	28	30	93%
Type 2	27	30	90%
Type 3	25	30	83%
Type 4	24	30	80%
Type 5	29	30	97%
Type 6	30	30	100%
Aggregate 1-4	104	120	87%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	23	1	2302	y
2	45	1	1172	y
3	26	1	2081	y
4	27	1	1996	n
5	18	1	2945	y
6	60	1	888	y
7	71	1	751	y
8	20	1	2748	y
9	66	1	803	y
10	88	1	600	y
11	22	1	2493	y
12	71	1	749	y
13	87	1	609	y
14	18	1	2983	y
15	20	1	2707	y
16	68	1	775	y
17	25	1	2132	y
18	54	1	994	n
19	18	1	3020	y
20	36	1	1493	y
21	18	1	2967	y
22	46	1	1149	y
23	26	1	2069	y
24	19	1	2804	y
25	30	1	1786	y
26	64	1	825	y
27	28	1	1949	y
28	18	1	2989	y
29	24	1	2199	y
30	26	1	2107	y
				28/30: 93.3%

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	27	1.2	227	y
2	27	2.6	186	y
3	28	2	230	y
4	25	1.5	162	y
5	28	1	161	y
6	28	2.7	179	y
7	27	4.9	220	y
8	28	4.4	158	y
9	29	1.5	187	y
10	24	1.5	184	y
11	27	2.2	222	y
12	26	2.8	159	y
13	27	1.6	225	y
14	25	1.7	196	y
15	28	2.1	152	y
16	28	4.6	175	y
17	27	4.8	190	y
18	25	2.2	196	y
19	28	4.3	205	y
20	26	4	184	y
21	28	1.5	206	n
22	26	3.6	209	n
23	28	3.6	173	y
24	23	1.6	201	n
25	26	3.9	179	y
26	28	4.4	152	y
27	29	3.7	208	y
28	25	4.8	181	y
29	24	2.8	171	y
30	28	4.4	209	y
				27/30: 90%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	17	9.1	499	y
2	17	8.2	397	n
3	17	8.1	425	y
4	18	7.9	466	y
5	18	6.7	490	y
6	17	9.2	450	y
7	18	8.4	312	y
8	16	9.4	489	n
9	18	8.5	221	y
10	16	8.6	333	n
11	17	8.6	480	y
12	18	7.5	482	y
13	18	7.3	275	y
14	17	6.4	224	y
15	17	9.1	497	y
16	17	6.5	293	y
17	16	7.6	411	y
18	17	7.5	266	y
19	18	7.6	455	y
20	17	6.2	282	y
21	17	7.5	331	y
22	17	9.7	422	y
23	17	9.3	383	n
24	17	9.2	266	y
25	17	6.7	201	y
26	17	6.3	222	n
27	18	8.9	222	y
28	17	7.8	326	y
29	17	9.7	447	y
30	17	9.7	219	y
				25/30: 83.3%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Number of Pulses per Burst**	**Pulse Width (µsec)**	**PRI (µs)**	**Detection (yes/no)**
1	16	14.3	472	n
2	14	15.6	247	y
3	12	13	456	y
4	15	17.8	290	y
5	13	16.7	383	n
6	13	16	237	y
7	14	12.5	343	y
8	14	19.9	201	y
9	14	14.1	317	y
10	14	19.4	270	y
11	14	18.3	425	n
12	14	12.9	422	y
13	15	17.3	404	y
14	16	14.8	447	y
15	15	19.5	347	n
16	15	14.9	283	y
17	13	17.8	326	y
18	13	11.1	401	y
19	15	15.5	360	n
20	13	13.7	414	y
21	12	13.1	224	y
22	12	16.3	464	y
23	12	11.4	464	y
24	13	14.2	334	y
25	14	14.8	378	y
26	15	15.9	355	n
27	13	12	277	y
28	15	18.6	259	y
29	15	14.7	313	y
30	13	13.4	343	y
				24/30: 80%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	**Detection (yes/no)**	**Chirp Width (MHz)**	**Subset**	**Fc**
1	y	18	1	5500
2	y	9	1	5500
3	y	13	1	5500
4	y	17	1	5500
5	y	20	1	5500
6	y	11	1	5500
7	n	6	1	5500
8	y	6	1	5500
9	y	19	1	5500
10	y	5	1	5500
11	y	5	2	5493
12	y	14	2	5496.6
13	y	7	2	5493.8
14	y	11	2	5495.4
15	y	11	2	5495.4
16	y	8	2	5494.2
17	y	10	2	5495
18	y	15	2	5497
19	y	18	2	5498.2
20	y	10	2	5495
21	y	7	3	5506.2
22	y	17	3	5502.2
23	y	19	3	5501.4
24	y	14	3	5503.4
25	y	12	3	5504.2
26	y	15	3	5503
27	y	8	3	5505.8
28	y	7	3	5506.2
29	y	13	3	5503.8
30	y	17	3	5502.2

29/30: 96.7%

TYPE 6 S	Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	**Detection (yes/no)**
1	y
2	y
3	y
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
	30/30: 100%

-- End of Test Report --