UNIFIED COMPLIANCE LABORATORY

427 West 12800 South
Draper, UT 84020

Test Report

Certification

FCC ID	SWX-U7PROM
ISED ID	6545A-U7PROM
Equipment Under Test	U7-Pro-Max
Test Report Serial Number	TR8803_01
Date of Tests	9 – 10, 12, 24 January; 1 – 2, 6 – 8, 28 – 29 February and 4 – 5 March 2024
Report Issue Date	25 March 2024

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

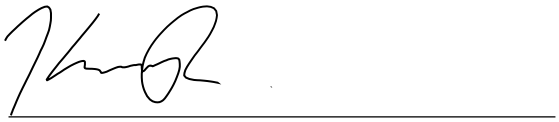
This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with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

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UBIQUITI
Model Number	U7-Pro-Max
FCC ID	SWX-U7PROM
IC ID	6545A-U7PROM

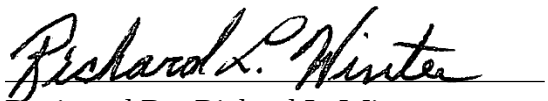
On this 9th day of February 2024, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

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: Kimberly Rodriguez



Reviewed By: Richard L. Winter

Revision History		
Revision	**Description**	**Date**
01	Original Report Release	25 March 2024

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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-Pro-Max
Serial Number	1FB64B
Dimensions (cm)	20.6 x 20.6 x 4.6

2.2 Description of EUT

The U7-Pro-Max is a PoE powered WiFi 7 access point with a 2.5 GbE PoE port. The U7-Pro-Max provides a 12.2 Gbps aggregate throughput rate. The U7-Pro-Max transmits in the 2.4 GHz, 5 GHz, and 6 GHz frequency bands and uses integral antennas and a dedicated spectral scanning radio. The U7-Pro-Max is powered by an 802.3at PoE power adapter.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5280, 5320
	40 MHz	5270, 5310
	80 MHz	5290
	160 MHz	5250
UNII-2C	20 MHz	5500, 5600*, 5720
	40 MHz	5510, 5590, 5710
	80 MHz	5530, 5610*, 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-Pro-Max SN: 1FB64B	Access Point	PoE Input / Shielded Cat 5E cable
BN: UBIQUITI MN: GP-h480-065G SN: N/A	PoE Injector	PoE Output / Shielded Cat 5E to U7-Pro-Max, and Ethernet / unshielded Cat 5E to PC
BN: DELL MN: XPS SN: N/A	Laptop PC	Ethernet / un-shielded Cat 5E

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
PoE Input	1	7m Shielded Cat 5E
PoE Output (PoE Injector)	1	7m Shielded Cat 5E to U7-Pro-Max PoE Input
LAN (PoE Injector)	1	unshielded Cat 5E to Laptop PC
AC (PoE Injector)	1	3 Conductor power cord to AC mains/80cm

2.5 Operating Environment

Power Supply	120 VAC
AC Mains Frequency	60 Hz
Temperature	20.6 – 23.3 °C
Humidity	14.24 – 23.86 %
Barometric Pressure	1024 mBar

2.6 Operating Modes

The U7-Pro-Max 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

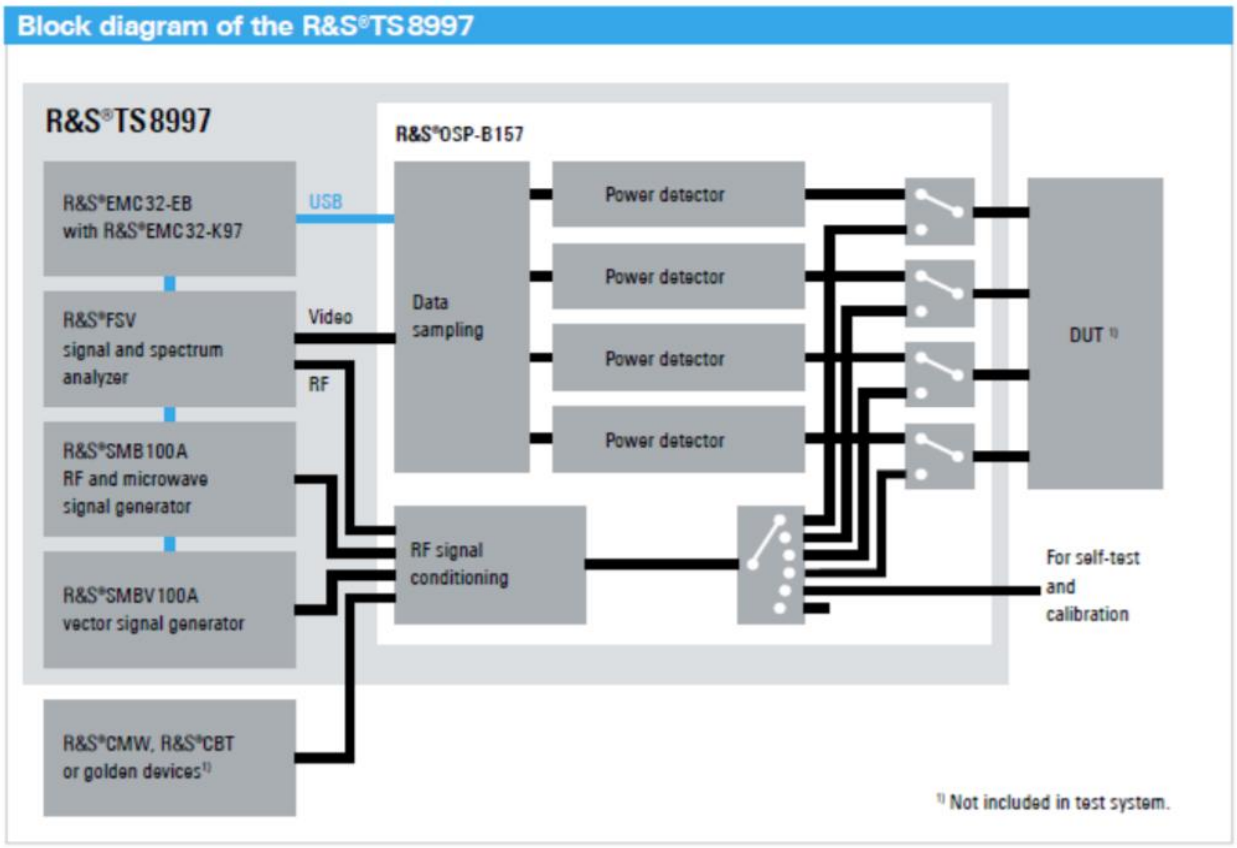


Diagram 1: Test Configuration Block Diagram

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
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5260 to 5570	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5260 to 5570	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	Compliant
15.407(b)	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 5570	Compliant
15.407(h)	RSS-247 §6.3	DFS Requirements	5260 to 5570	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.				

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 chamber 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 2024. 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 2024.

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	7/13/2023	7/13/2024
LISN	AFJ	LS16C/10	UCL-2512	5/26/2023	5/26/2024
ISN	Teseq	ISN T800	UCL-2974	6/27/2022	6/272024
LISN	AFJ	LS16C\10	UCL-6749	1/29/2024	1/29/2025
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

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

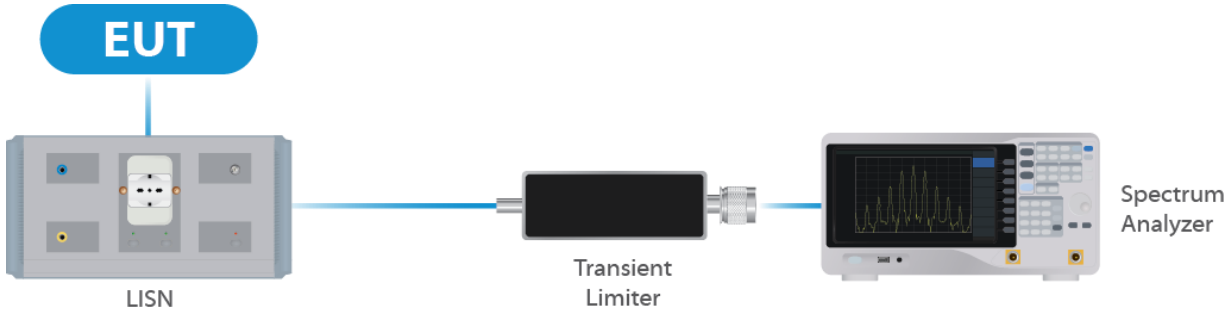


Figure 1: Conducted Emissions Test

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	11/27/2023	11/27/2024
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	2/22/2023	2/22/2024
Switch Extension	R&S	OSP-150W	UCL-2870	2/22/2023	2/22/2024

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

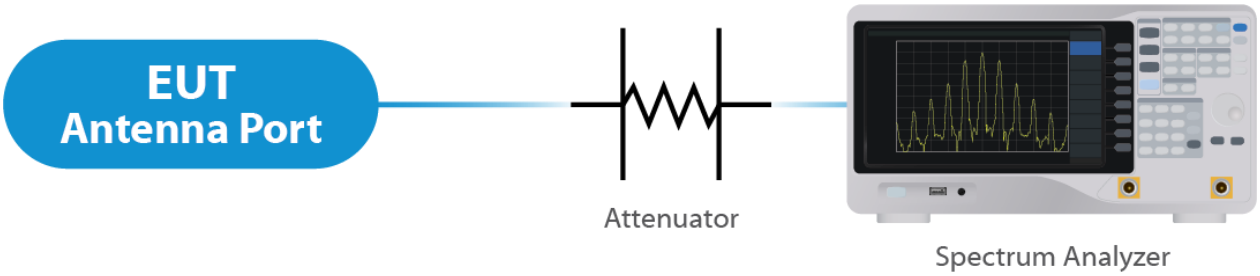


Figure 2: Direct Connect at the Antenna Port Test

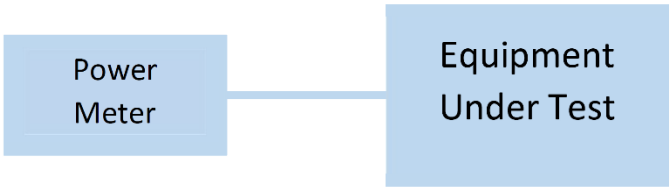


Figure 3: Output Power Measurement

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	1/25/2024	1/29/2025
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	2/22/2025
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	1/11/2023	1/11/2025
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	9/22/2022	9/22/2024
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	1/27/2023	1/27/2025
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	6/09/2022	6/09/2024
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	1/19/2024	1/19/2026
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

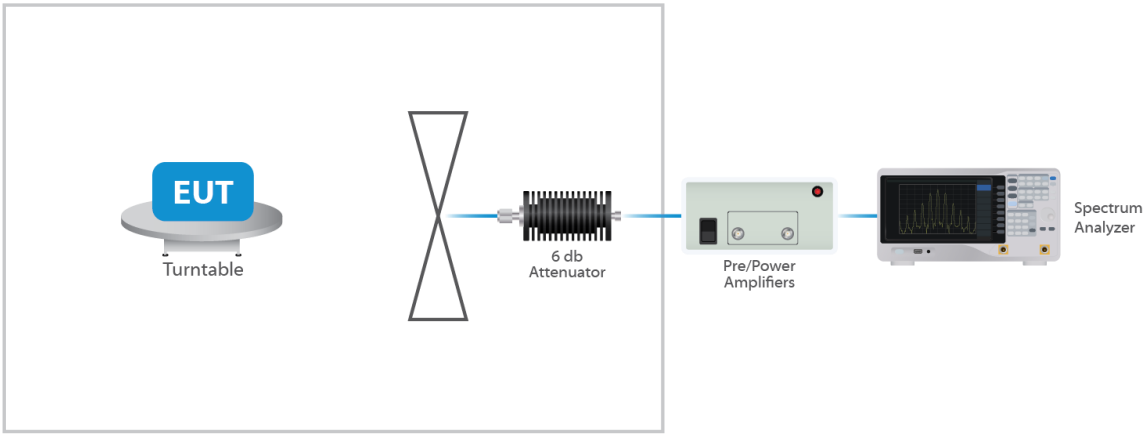


Figure 4: Radiated Emissions Test

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	4/26/2023	4/26/2024

4.4.1 Master Test Set Up

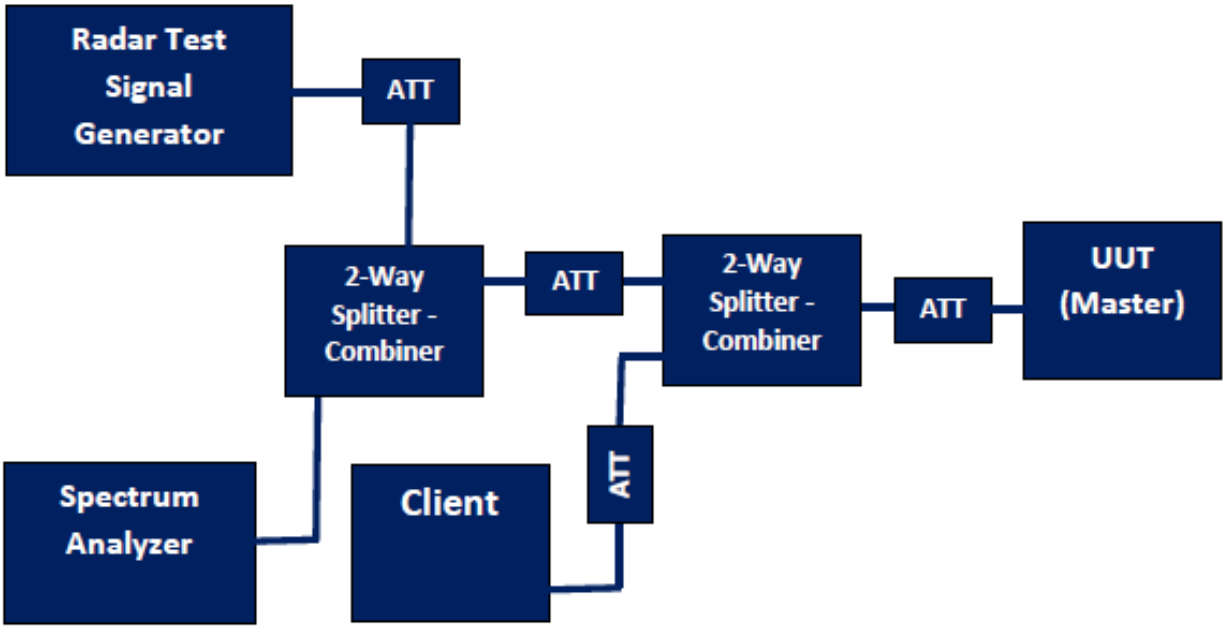


Figure 5: DFS Test Set Up – Master

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 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. For CDD transmissions, directional 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.

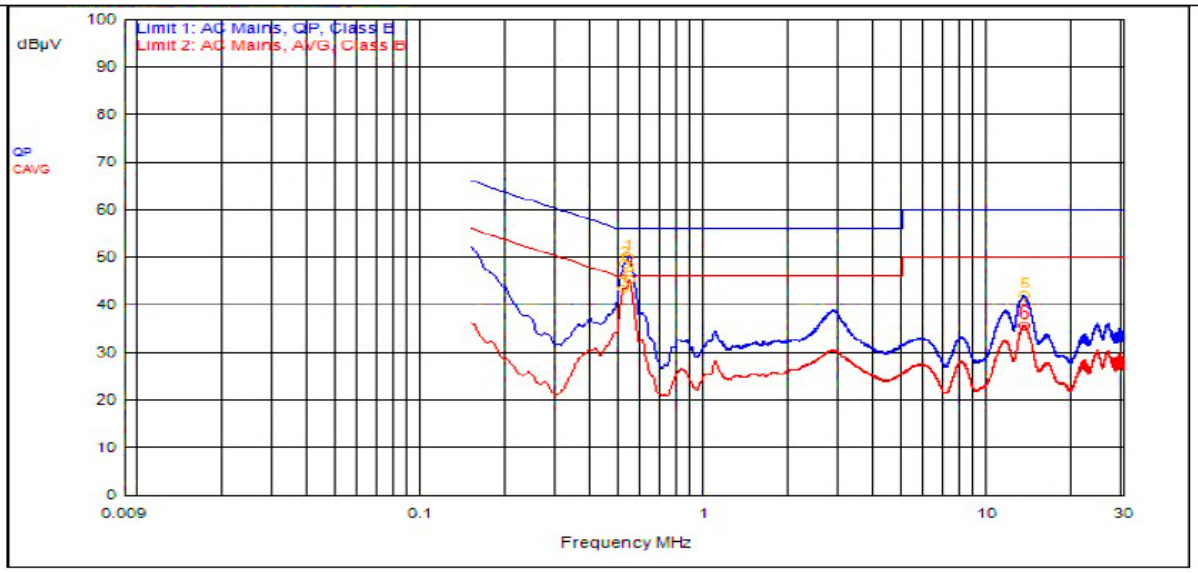
For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT ≤ 4;
For PSD measurements when Nss=1: Array Gain = 10 log(NANT/NSS) dB + Antenna Gain (dBi). Or 6.02 dB + 6 dBi = 12.02 dBi.

Results

The EUT complied with the specification

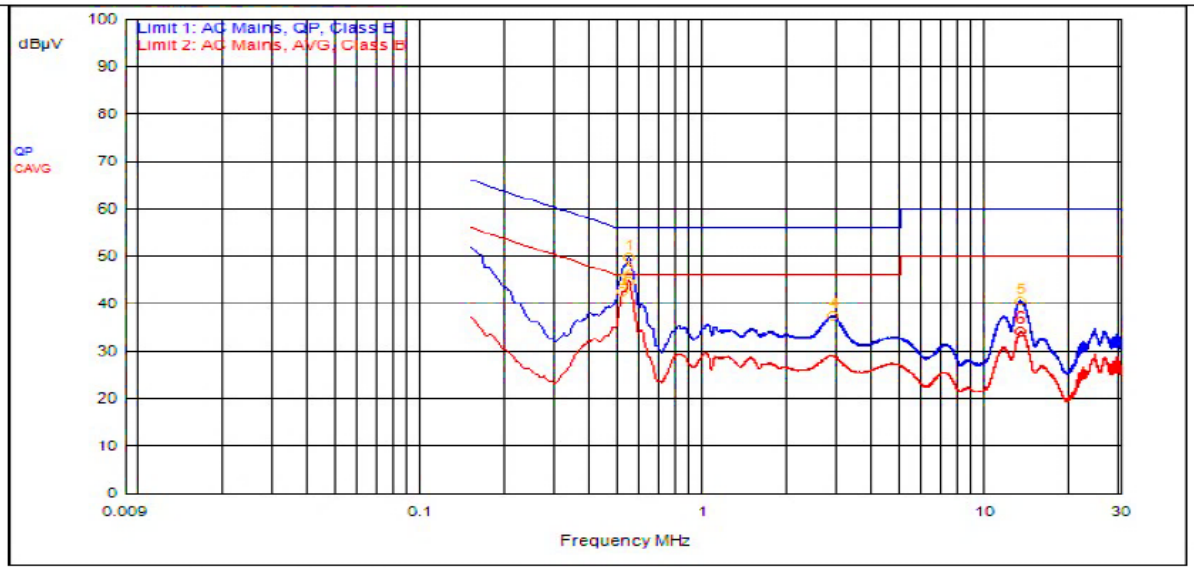
5.2 Conducted Emissions at Mains Ports Data

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	537,000kHz	12.41	0.00		QPeak	37.70	50.11	56.00	-5.89			
2	519,000kHz	12.42	0.00		QPeak	36.28	48.70	56.00	-7.30			
5	13.263	12.40	0.20		QPeak	29.24	41.84	60.00	-18.16			
3	540,000kHz	12.41	0.00		C_AVG	32.82	45.23			46.00	-0.77	
4	516,000kHz	12.42	0.00		C_AVG	30.97	43.39			46.00	-2.61	
6	13.320	12.41	0.20		C_AVG	22.93	35.54			50.00	-14.46	

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	540,000kHz	12.42	0.00		QPeak	37.28	49.70	56.00	-6.30			
4	2.862	12.29	0.10		QPeak	25.08	37.47	56.00	-18.53			
5	13.215	12.43	0.20		QPeak	28.02	40.65	60.00	-19.35			
2	543,000kHz	12.42	0.00		C_AVG	32.44	44.86			46.00	-1.14	
3	516,000kHz	12.43	0.00		C_AVG	30.17	42.60			46.00	-3.40	
6	13.200	12.42	0.20		C_AVG	21.42	34.04			50.00	-15.96	

Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

5.3.1 UNII-2A

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5260	16.90	22.60
OFDM 20	5280	16.90	22.30
OFDM 20	5320	16.90	22.50
HE20	5260	19.10	22.40
HE20	5280	19.20	22.50
HE20	5320	19.20	23.00
HE40	5270	38.25	43.50
HE40	5310	38.25	43.50
HE80	5290	78.00	95.50
HE160	5250	158.00	449.00

5.3.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5500	16.90	22.50
OFDM 20	5600	16.80	22.50
OFDM 20	5720	16.90	22.00
HE20	5500	19.10	22.40
HE20	5600	19.10	22.90
HE20	5720	19.10	22.70
HE40	5510	38.25	45.15
HE40	5590	38.25	44.10
HE40	5710	38.25	43.50
HE80	5530	77.50	138.00
HE80	5610	78.00	88.00
HE80	5690	78.50	86.50
HE160	5570	159.00	170.00

Result

The 26 dB bandwidths are reported for information purposes. 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 66291 D01. Please see associated annex for details on instrument settings.
The maximum average RF conducted output power measured for this device was 23.78 dBm or 238.78 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	Conducted Output Power*	Measured PSD
a20	5260	Mcs0	16	19.53	4.47
a20	5280	Mcs0	17	20.02	4.87
a20	5320	Mcs0	16	19.13	4.02
ax20	5260	Mcs0	17	20.62	4.89
ax20	5280	Mcs0	17	20.14	4.41
ax20	5320	Mcs0	17	20.25	4.39
ax40	5270	Mcs0	20	23.26	4.81
ax40	5310	Mcs0	20	23.16	4.29
ax80	5290	Mcs0	20	23.00	1.44
ax160	5250	Mcs0	20	23.78	-0.63

5.4.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
a20	5500	Mcs0	17	20.07	4.80
a20	5600	Mcs0	15	19.28	4.27
a20	5720	Mcs0	16	19.16	4.09
ax20	5500	Mcs0	17	20.07	4.30
ax20	5600	Mcs0	16	20.38	4.65
ax20	5720	Mcs0	17	20.24	4.68
ax40	5510	Mcs0	20	22.97	4.46
ax40	5590	Mcs0	19	23.11	4.41
ax40	5710	Mcs0	20	23.27	4.82
ax80	5530	Mcs0	20	23.09	1.57
ax80	5610	Mcs0	19	23.16	1.52
ax80	5690	Mcs0	20	23.21	1.85
ax160	5570	Mcs0	20	23.74	-0.63

Result

In the configuration tested, the maximum average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification.

5.5 §15.407(b) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 6 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be below -27 dBm EIRP.

Result

Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification. See Annex for results.

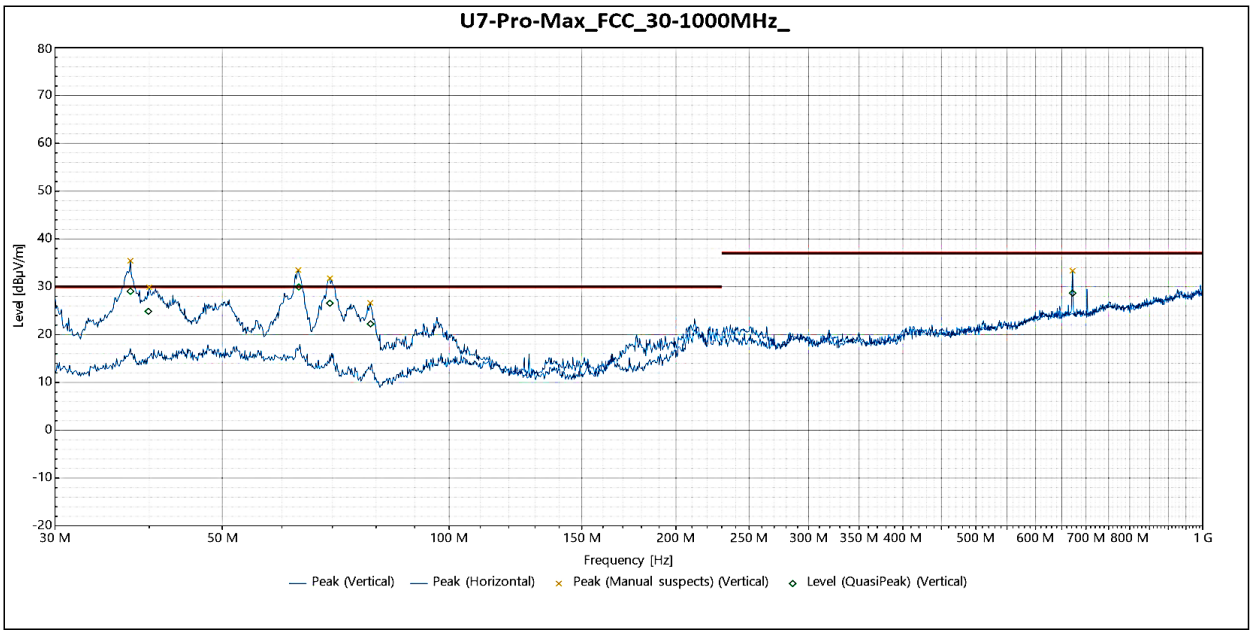
5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

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 + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

5.5.3 UNII-2A

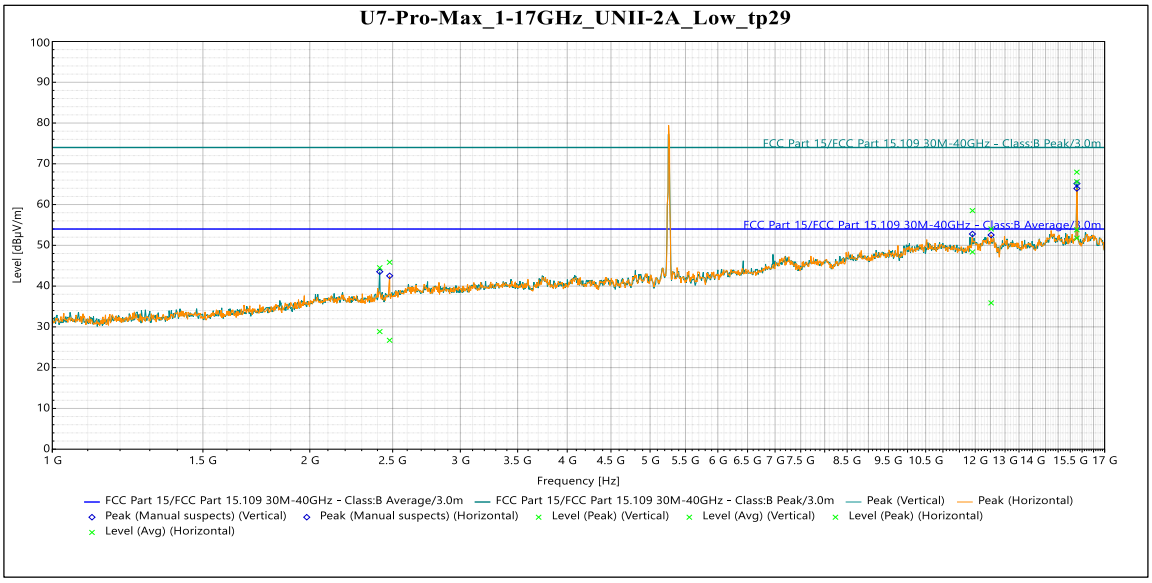
EUT



QuasiPeak

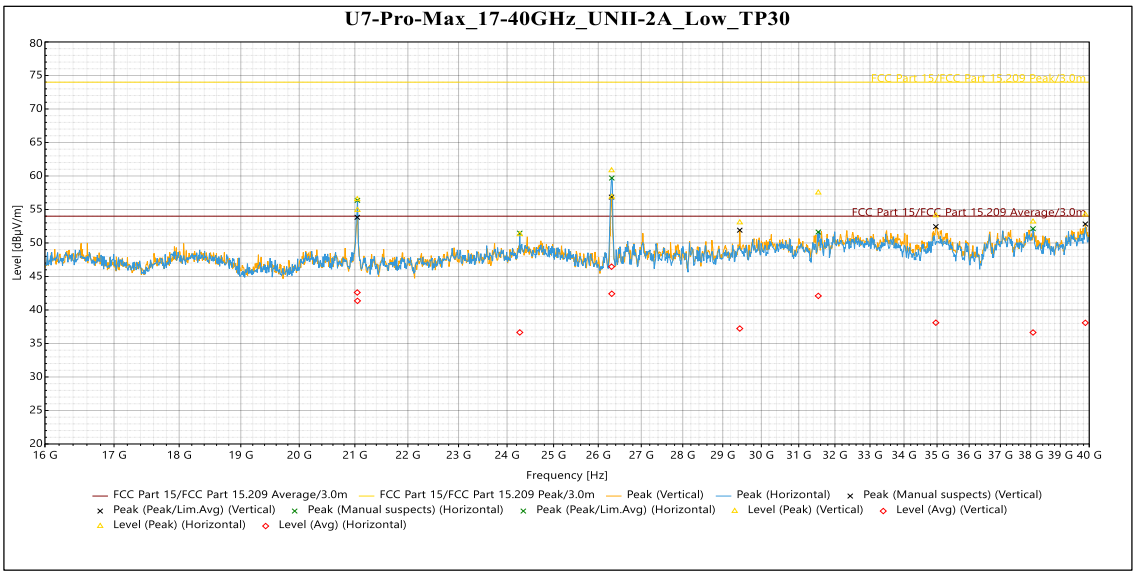
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
37.769 MHz	29.054	30	-0.946	215	1.821	Vertical	-14.696
39.89 MHz	24.87	30	-5.13	75	1.108	Vertical	-13.531
63.164 MHz	29.972	30	-0.028	123	3.455	Vertical	-14.834
69.458 MHz	26.573	30	-3.427	99	3.459	Vertical	-16.754
78.66 MHz	22.249	30	-7.751	272	3.715	Vertical	-19.447
671.8 MHz	28.679	37	-8.321	77	2.965	Vertical	-6.121
No significant emissions	-	-	-	-	-	Horizontal	-

Graph 1: Radiated Emissions within 30 MHz - 1GHz



Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
2.4146 GHz	Peak	44.508	74	-29.492	235	1.638	Vertical	-3.419
11.91 GHz	Peak	58.524	74	-15.476	349	1.643	Vertical	16.544
15.778 GHz	Peak	65.595	74	-8.405	35	2.539	Vertical	15.548
2.4146 GHz	AVG	28.846	54	-25.154	235	1.638	Vertical	-3.419
11.91 GHz	AVG	48.374	54	-5.626	349	1.643	Vertical	16.544
15.778 GHz	AVG	51.772	54	-2.228	35	2.539	Vertical	15.548
2.4798 GHz	Peak	45.84	74	-28.16	217	2.005	Horizontal	-3.262
12.524 GHz	Peak	54.024	74	-19.976	338	1.5	Horizontal	16.553
15.774 GHz	Peak	67.955	74	-6.045	33	2.902	Horizontal	15.584
2.4798 GHz	AVG	26.71	54	-27.29	217	2.005	Horizontal	-3.262
12.524 GHz	AVG	35.875	54	-18.125	338	1.5	Horizontal	16.553
15.774 GHz	AVG	53.806	54	-0.194	33	2.902	Horizontal	15.584

Graph 2: Radiated Emissions within 1 GHz – 17 GHz

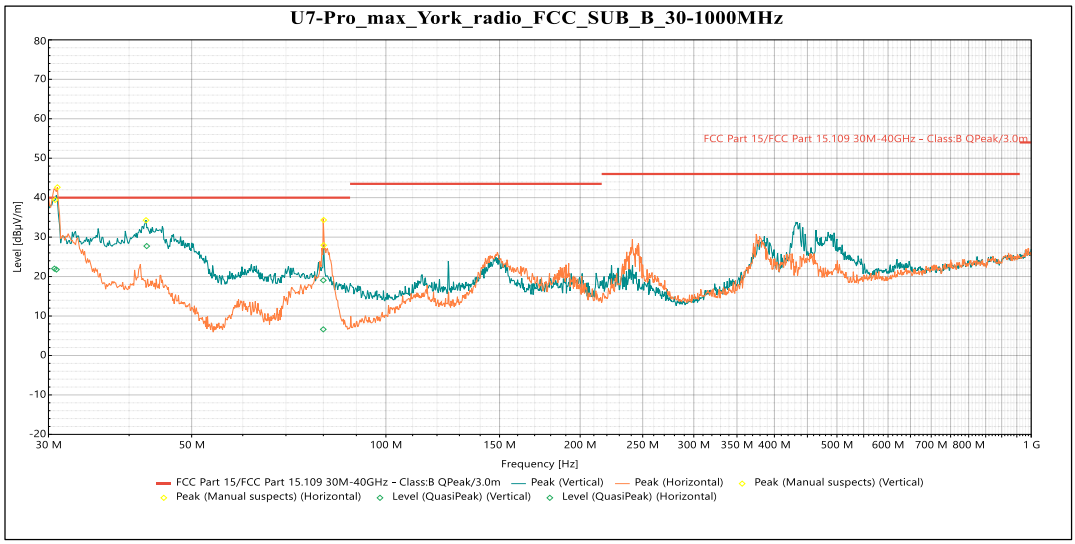


Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
21.044 GHz	Peak	56.525	74	-17.475	23	Vertical	0.266
26.305 GHz	Peak	60.83	74	-13.17	92	Vertical	0.605
29.437 GHz	Peak	53.052	74	-20.948	273	Vertical	0.951
34.963 GHz	Peak	54.113	74	-19.887	162	Vertical	3.494
39.864 GHz	Peak	54.234	74	-19.766	320	Vertical	3.308
21.044 GHz	AVG	42.609	54	-11.391	23	Vertical	0.266
26.305 GHz	AVG	46.455	54	-7.545	92	Vertical	0.605
29.437 GHz	AVG	37.229	54	-16.771	273	Vertical	0.951
34.963 GHz	AVG	38.1	54	-15.9	162	Vertical	3.494
39.864 GHz	AVG	38.078	54	-15.922	320	Vertical	3.308
21.048 GHz	Peak	54.92	74	-19.08	58	Horizontal	0.21
24.27 GHz	Peak	51.294	74	-22.706	107	Horizontal	1.857
26.31 GHz	Peak	56.889	74	-17.111	70	Horizontal	0.676
31.537 GHz	Peak	57.508	74	-16.492	66	Horizontal	1.139
38.075 GHz	Peak	53.181	74	-20.819	289	Horizontal	3.27
21.048 GHz	AVG	41.362	54	-12.638	58	Horizontal	0.21
24.27 GHz	AVG	36.652	54	-17.348	107	Horizontal	1.857
26.31 GHz	AVG	42.424	54	-11.576	70	Horizontal	0.676
31.537 GHz	AVG	42.096	54	-11.904	66	Horizontal	1.139
38.075 GHz	AVG	36.639	54	-17.361	289	Horizontal	3.27

Graph 3: Radiated Emissions within 17 GHz – 40 GHz

5.5.4 UNII-2A

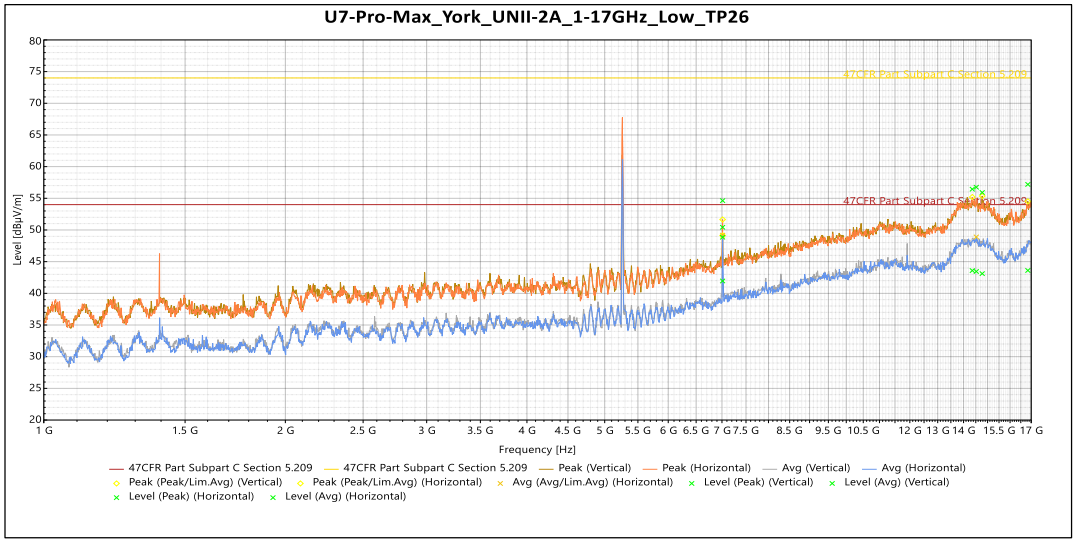
York Module



QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
30.64 MHz	22.014	40	-17.986	307	1.128	Vertical	-8.155
42.595 MHz	27.726	40	-12.274	36	1.132	Vertical	-16.243
79.988 MHz	19.05	40	-20.95	289	2.207	Vertical	-20.517
30.865 MHz	21.773	40	-18.227	265	3.65	Horizontal	-8.335
79.98 MHz	6.624	40	-33.376	296	3.868	Horizontal	-20.517

Graph 4: Radiated Emissions within 30 MHz - 1GHz



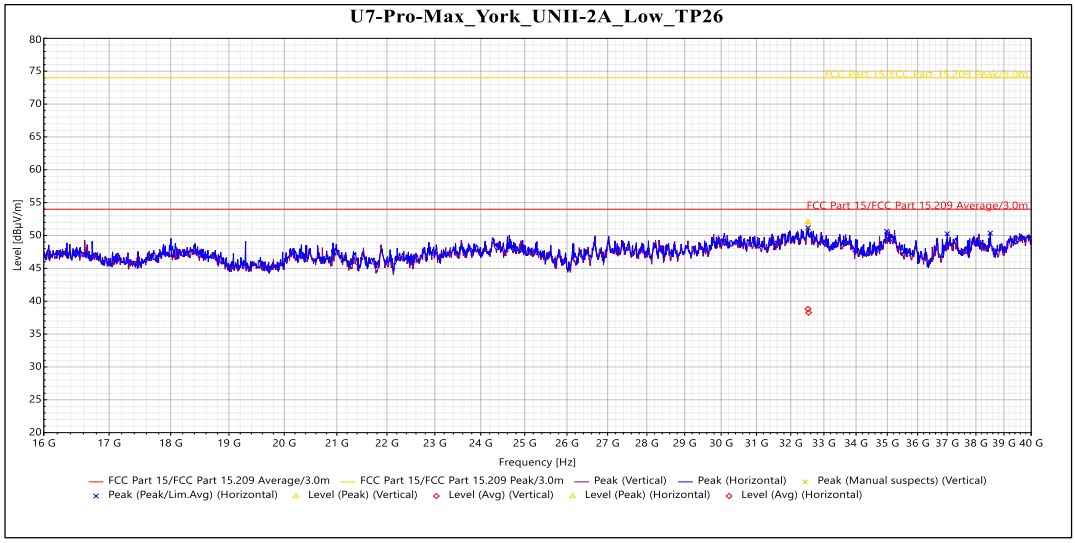
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.013 GHz	50.431	74	-23.569	161	1.5	Vertical	-0.318
14.771 GHz	55.924	74	-18.076	264	3.645	Vertical	11.446
16.839 GHz	57.191	74	-16.809	215	3.81	Vertical	13.219
7.0133 GHz	54.628	74	-19.372	83	2.64	Horizontal	-0.317
14.356 GHz	56.437	74	-17.563	208	1.628	Horizontal	11.916
14.522 GHz	56.753	74	-17.247	149	3.142	Horizontal	11.792

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.013 GHz	41.951	54	-12.049	161	1.5	Vertical	-0.318
14.771 GHz	43.108	54	-10.892	264	3.645	Vertical	11.446
16.839 GHz	43.608	54	-10.392	215	3.81	Vertical	13.219
7.0133 GHz	48.863	54	-5.137	83	2.64	Horizontal	-0.317
14.356 GHz	43.594	54	-10.406	208	1.628	Horizontal	11.916
14.522 GHz	43.448	54	-10.552	149	3.142	Horizontal	11.792

Graph 5: Radiated Emissions within 1 GHz – 17 GHz – Lowest Frequency (worse case)



Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
32.5346763 GHz	51.938	74	-22.062	232	Vertical	2.453
32.5157368 GHz	52.038	74	-21.962	220	Horizontal	2.522

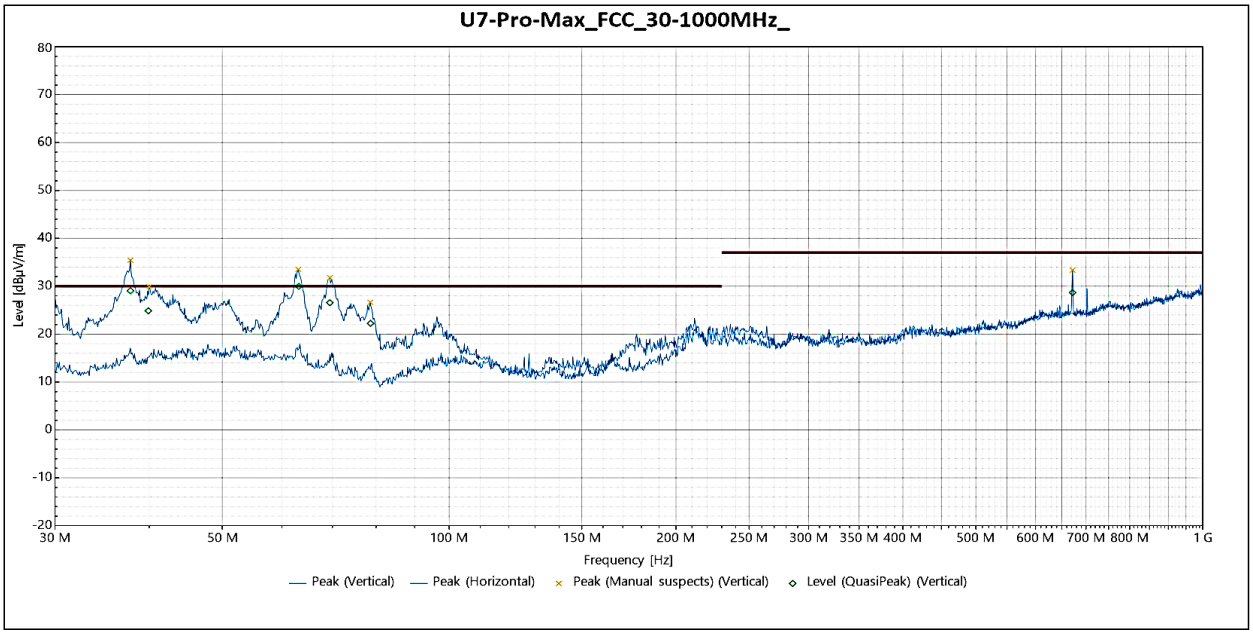
Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
32.5346763 GHz	38.258	54	-15.742	232	Vertical	2.453
32.5157368 GHz	38.808	54	-15.192	220	Horizontal	2.522

Graph 6: Radiated Emissions within 17 GHz – 40 GHz – Lowest Frequency (worse case)

5.5.5 UNII-2C

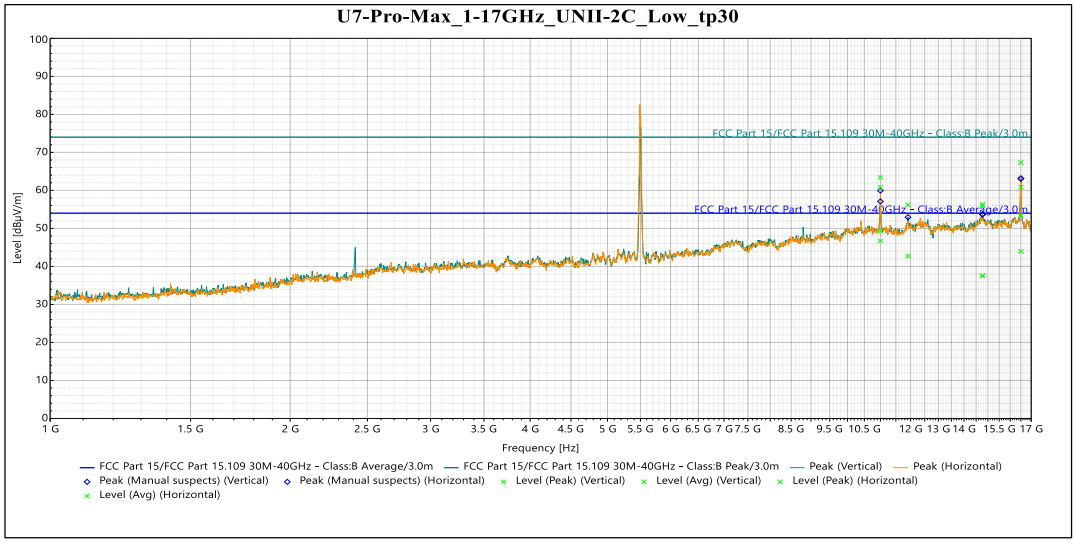
EUT



QuasiPeak

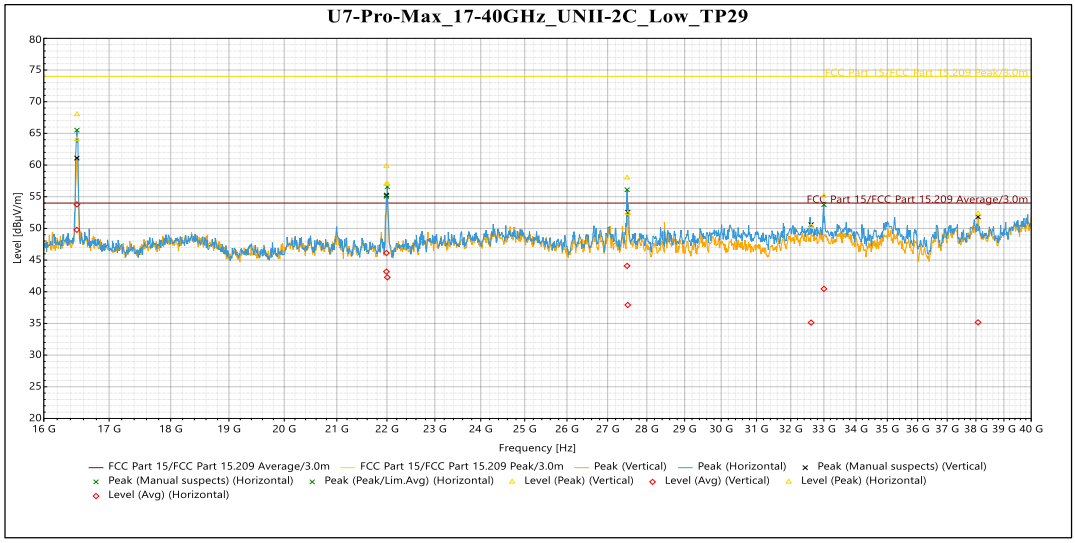
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
37.769 MHz	29.054	30	-0.946	215	1.821	Vertical	-14.696
39.89 MHz	24.87	30	-5.13	75	1.108	Vertical	-13.531
63.164 MHz	29.972	30	-0.028	123	3.455	Vertical	-14.834
69.458 MHz	26.573	30	-3.427	99	3.459	Vertical	-16.754
78.66 MHz	22.249	30	-7.751	272	3.715	Vertical	-19.447
671.8 MHz	28.679	37	-8.321	77	2.965	Vertical	-6.121
No significant emissions	-	-	-	-	-	Horizontal	-

Graph 7: Radiated Emissions within 30 MHz - 1GHz



Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.999 GHz	Peak	60.789	74	-13.211	90	2.182	Vertical	15.468
11.91 GHz	Peak	56.187	74	-17.813	1	2.182	Vertical	16.544
14.768 GHz	Peak	55.908	74	-18.092	64	1.638	Vertical	16.94
16.503 GHz	Peak	60.852	74	-13.148	16	1.997	Vertical	18.285
10.999 GHz	AVG	46.697	54	-7.303	90	2.182	Vertical	15.468
11.91 GHz	AVG	42.732	54	-11.268	1	2.182	Vertical	16.544
14.768 GHz	AVG	37.554	54	-16.446	64	1.638	Vertical	16.94
16.503 GHz	AVG	43.956	54	-10.044	16	1.997	Vertical	18.285
10.999 GHz	Peak	63.396	74	-10.604	65	2.005	Horizontal	15.468
14.772 GHz	Peak	56.322	74	-17.678	202	1.638	Horizontal	16.912
16.496 GHz	Peak	67.317	74	-6.683	84	2.001	Horizontal	18.276
10.999 GHz	AVG	49.232	54	-4.768	65	2.005	Horizontal	15.468
14.772 GHz	AVG	37.527	54	-16.473	202	1.638	Horizontal	16.912
16.496 GHz	AVG	53.356	54	-0.644	84	2.001	Horizontal	18.276

Graph 8: Radiated Emissions within 1 GHz – 17 GHz

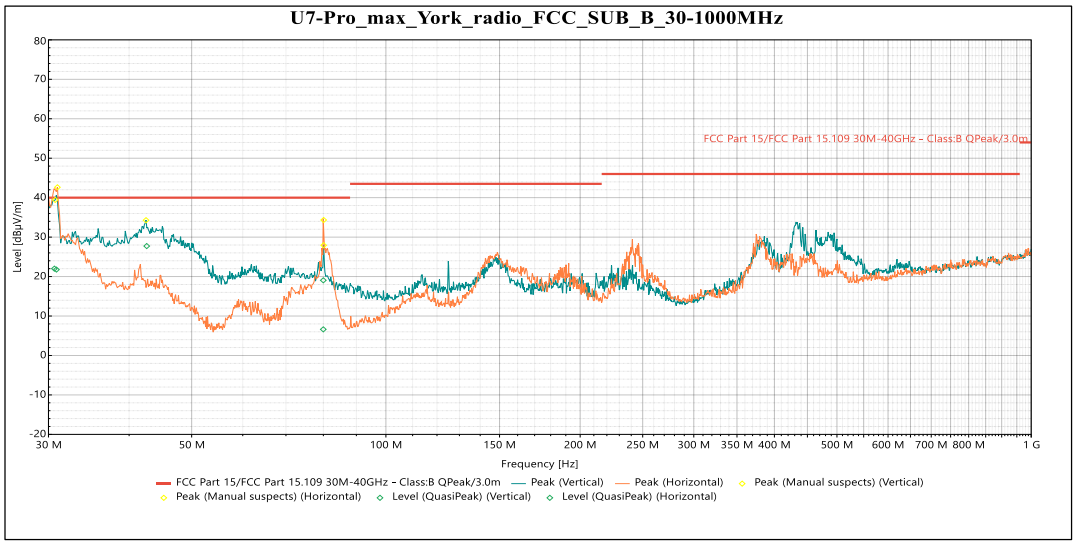


Frequency	SR #	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
16.499 GHz	Peak	64.055	74	-9.945	347	Vertical	0.334
21.99 GHz	Peak	59.853	74	-14.147	55	Vertical	-0.979
27.509 GHz	Peak	52.383	74	-21.617	32	Vertical	1.068
32.611 GHz	Peak	50.344	74	-23.656	134	Vertical	2.058
38.075 GHz	Peak	52.331	74	-21.669	338	Vertical	3.27
16.499 GHz	AVG	49.771	54	-4.229	347	Vertical	0.334
21.99 GHz	AVG	46.117	54	-7.883	55	Vertical	-0.979
27.509 GHz	AVG	37.911	54	-16.089	32	Vertical	1.068
32.611 GHz	AVG	35.128	54	-18.872	134	Vertical	2.058
38.075 GHz	AVG	35.182	54	-18.818	338	Vertical	3.27
16.5 GHz	Peak	67.994	74	-6.006	82	Horizontal	0.329
21.989 GHz	Peak	57.014	74	-16.986	15	Horizontal	-1
22.008 GHz	Peak	57.047	74	-16.953	20	Horizontal	-0.588
27.492 GHz	Peak	57.997	74	-16.003	74	Horizontal	0.701
33.001 GHz	Peak	55.105	74	-18.895	72	Horizontal	1.617
16.5 GHz	AVG	53.79	54	-0.21	82	Horizontal	0.329
21.989 GHz	AVG	43.177	54	-10.823	15	Horizontal	-1
22.008 GHz	AVG	42.274	54	-11.726	20	Horizontal	-0.588
27.492 GHz	AVG	44.077	54	-9.923	74	Horizontal	0.701
33.001 GHz	AVG	40.455	54	-13.545	72	Horizontal	1.617

Graph 9: Radiated Emissions within 17 GHz – 40 GHz

5.5.6 UNII-2C

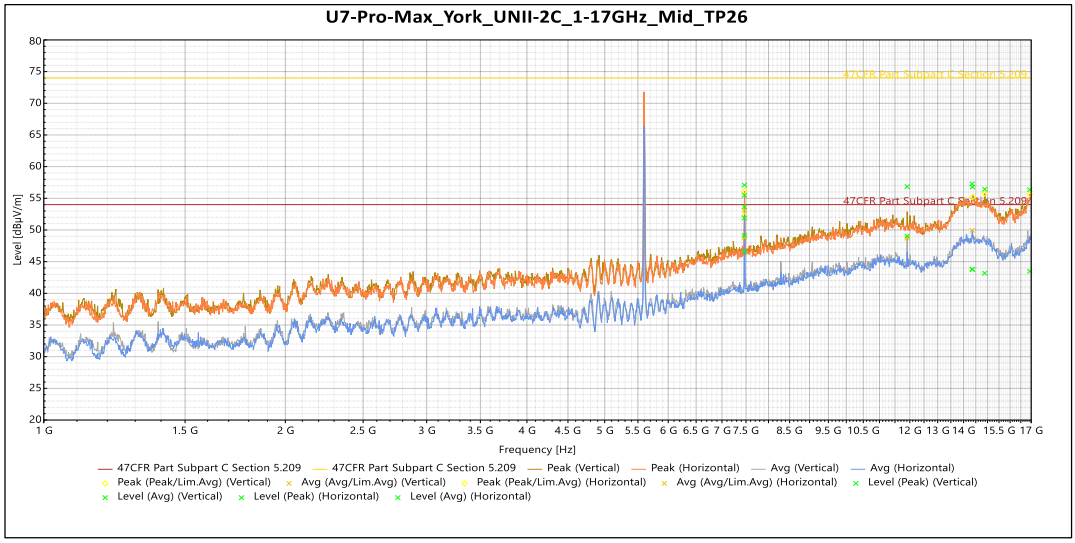
York Module



QuasiPeak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Correction (dB)
30.64 MHz	22.014	40	-17.986	307	1.128	Vertical	-8.155
42.595 MHz	27.726	40	-12.274	36	1.132	Vertical	-16.243
79.988 MHz	19.05	40	-20.95	289	2.207	Vertical	-20.517
30.865 MHz	21.773	40	-18.227	265	3.65	Horizontal	-8.335
79.98 MHz	6.624	40	-33.376	296	3.868	Horizontal	-20.517

Graph 10: Radiated Emissions within 30 MHz - 1GHz



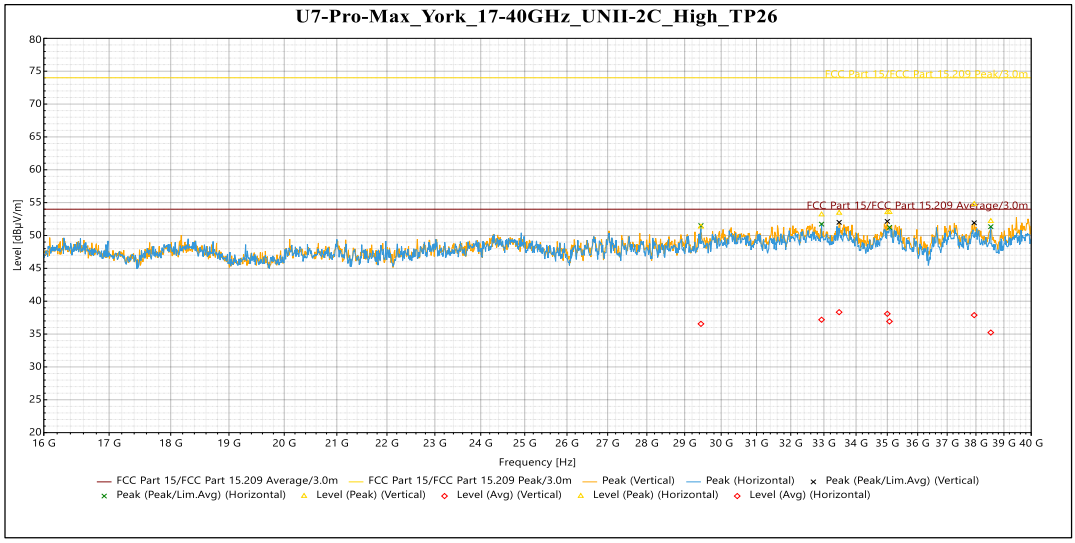
Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.4664 GHz	53.64	74	-20.36	210	2.828	Vertical	1.079
7.4667 GHz	55.486	74	-18.514	196	1.5	Vertical	1.081
11.91 GHz	56.839	74	-17.161	152	2.132	Vertical	8.285
14.879 GHz	56.445	74	-17.555	47	3.14	Vertical	11.434
7.4668 GHz	57.082	74	-16.918	171	1.628	Horizontal	1.082
14.353 GHz	57.284	74	-16.716	51	2.638	Horizontal	11.895
14.362 GHz	56.775	74	-17.225	283	1.626	Horizontal	11.934
16.928 GHz	56.365	74	-17.635	322	2.635	Horizontal	13.231

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
7.4664 GHz	46.591	54	-7.409	210	2.828	Vertical	1.079
7.4667 GHz	49.104	54	-4.896	196	1.5	Vertical	1.081
11.91 GHz	49.025	54	-4.975	152	2.132	Vertical	8.285
14.879 GHz	43.166	54	-10.834	47	3.14	Vertical	11.434
7.4668 GHz	51.885	54	-2.115	171	1.628	Horizontal	1.082
14.353 GHz	43.766	54	-10.234	51	2.638	Horizontal	11.895
14.362 GHz	43.795	54	-10.205	283	1.626	Horizontal	11.934
16.928 GHz	43.484	54	-10.516	322	2.635	Horizontal	13.231

Graph 11: Radiated Emissions within 1 GHz – 17 GHz – Middle Frequency (worse case)



Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
33.47 GHz	53.431	74	-20.569	103	Vertical	2.303
35.001 GHz	53.524	74	-20.476	220	Vertical	3.765
37.939 GHz	54.766	74	-19.234	216	Vertical	3.897
29.442 GHz	51.334	74	-22.666	176	Horizontal	0.922
32.929 GHz	53.18	74	-20.82	186	Horizontal	2.008
35.071 GHz	53.538	74	-20.462	294	Horizontal	3.313
38.528 GHz	52.183	74	-21.817	355	Horizontal	2.452

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
33.47 GHz	38.333	54	-15.667	103	Vertical	2.303
35.001 GHz	38.078	54	-15.922	220	Vertical	3.765
37.939 GHz	37.877	54	-16.123	216	Vertical	3.897
29.442 GHz	36.552	54	-17.448	176	Horizontal	0.922
32.929 GHz	37.183	54	-16.817	186	Horizontal	2.008
35.071 GHz	36.921	54	-17.079	294	Horizontal	3.313
38.528 GHz	35.232	54	-18.768	355	Horizontal	2.452

Graph 12: Radiated Emissions within 17 GHz – 40 GHz – 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 66291 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. As per KDB 662911, When the EUT is using spatial-multiplexing in HT to HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 6 dBi + Array gain of 6.02 dB which is a total of 12.02 dBi
Results of this testing are summarized.

5.6.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
a20	5260	Mcs0_Nss4	16	19.53	4.47
a20	5280	Mcs0_Nss4	17	20.02	4.87
a20	5320	Mcs0_Nss4	16	19.13	4.02
ax20	5260	Mcs0_Nss4	17	20.62	4.89
ax20	5280	Mcs0_Nss4	17	20.14	4.41
ax20	5320	Mcs0_Nss4	17	20.25	4.39
ax40	5270	Mcs0_Nss4	20	23.26	4.81
ax40	5310	Mcs0_Nss4	20	23.16	4.29
ax80	5290	Mcs0_Nss4	20	23.00	1.44
ax160	5250	Mcs0_Nss4	20	23.78	-0.63

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
a20	5260	Mcs0_Nss1	16	19.53	4.47
a20	5280	Mcs0_Nss1	17	20.02	4.87
a20	5320	Mcs0_Nss1	16	19.13	4.02
ax20	5260	Mcs0_Nss1	17	20.62	4.89
ax20	5280	Mcs0_Nss1	17	20.14	4.41
ax20	5320	Mcs0_Nss1	17	20.25	4.39
ax40	5270	Mcs0_Nss1	20	23.26	4.81
ax40	5310	Mcs0_Nss1	20	23.16	4.29
ax80	5290	Mcs0_Nss1	20	23.00	1.44
ax160	5250	Mcs0_Nss1	20	23.78	-0.63

5.6.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
a20	5500	Mcs0_Nss4	17	20.07	4.80
a20	5600	Mcs0_Nss4	15	19.28	4.27
a20	5720	Mcs0_Nss4	16	19.16	4.09
ax20	5500	Mcs0_Nss4	17	20.07	4.30
ax20	5600	Mcs0_Nss4	16	20.38	4.65
ax20	5720	Mcs0_Nss4	17	20.24	4.68
ax40	5510	Mcs0_Nss4	20	22.97	4.46
ax40	5590	Mcs0_Nss4	19	23.11	4.41
ax40	5710	Mcs0_Nss4	20	23.27	4.82
ax80	5530	Mcs0_Nss4	20	23.09	1.57
ax80	5610	Mcs0_Nss4	19	23.16	1.52
ax80	5690	Mcs0_Nss4	20	23.21	1.85
ax160	5570	Mcs0_Nss4	20	23.74	-0.63

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
a20	5500	Mcs0_Nss1	17	20.07	4.80
a20	5600	Mcs0_Nss1	15	19.28	4.27
a20	5720	Mcs0_Nss1	16	19.16	4.09
ax20	5500	Mcs0_Nss1	17	20.07	4.30
ax20	5600	Mcs0_Nss1	16	20.38	4.65
ax20	5720	Mcs0_Nss1	17	20.24	4.68
ax40	5510	Mcs0_Nss1	20	22.97	4.46
ax40	5590	Mcs0_Nss1	19	23.11	4.41
ax40	5710	Mcs0_Nss1	20	23.27	4.82
ax80	5530	Mcs0_Nss1	20	23.09	1.57
ax80	5610	Mcs0_Nss1	19	23.16	1.52
ax80	5690	Mcs0_Nss1	20	23.21	1.85
ax160	5570	Mcs0_Nss1	20	23.74	-0.63

Result

The maximum average power spectral density was less than the limit of 8 dBm; therefore, the EUT complies with the specification.

5.7 DFS Requirement

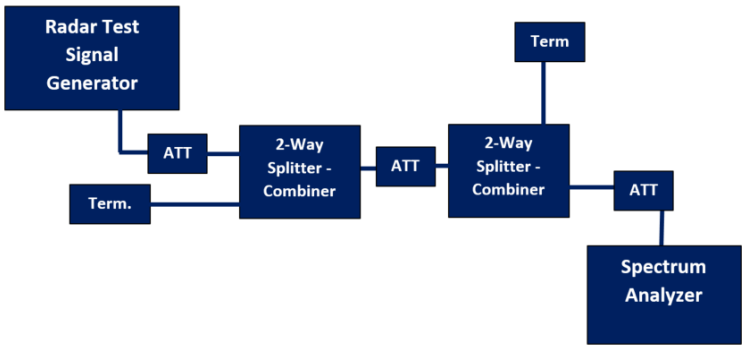
This product is a master with radar detection. The outcome of the required DFS tests is located in this section. DFS testing was performed following the test procedures as outlined in KDB 905462.

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

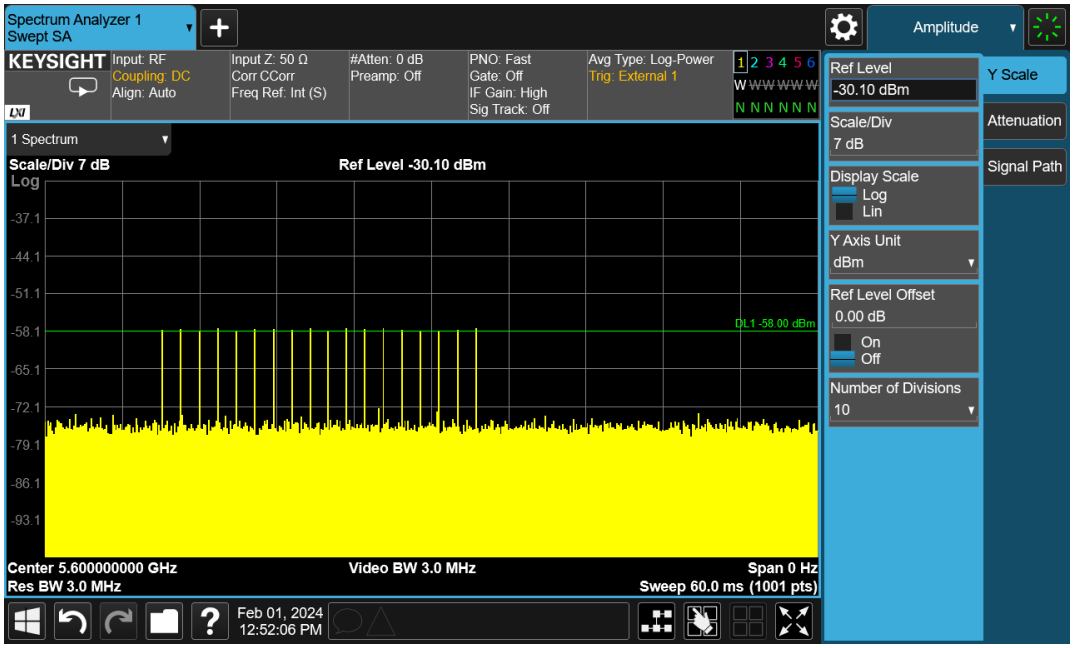
Information	Status
Possible Antenna/s	Integral
Operating mode	Master
Port used for testing	FJ1, FJ2
EIRP range	> 200 milliwatts
Impedance of port	50 ohms
Channel loading technique	Data transfer was enacted to achieve a minimum channel loading of approximately 17%
Antenna measurement technique	See note 1
Time of power-on cycle	73.2s
Detection threshold level	-58 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

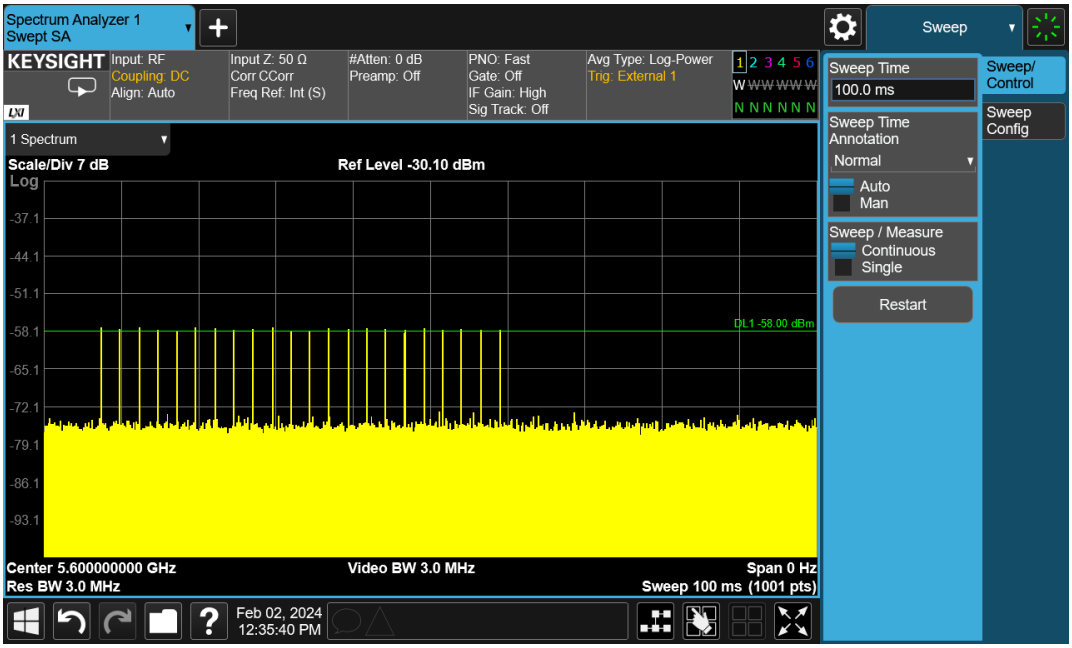
Requirement	Operational Mode	
	Master or Client Client Without Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not Required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not Required



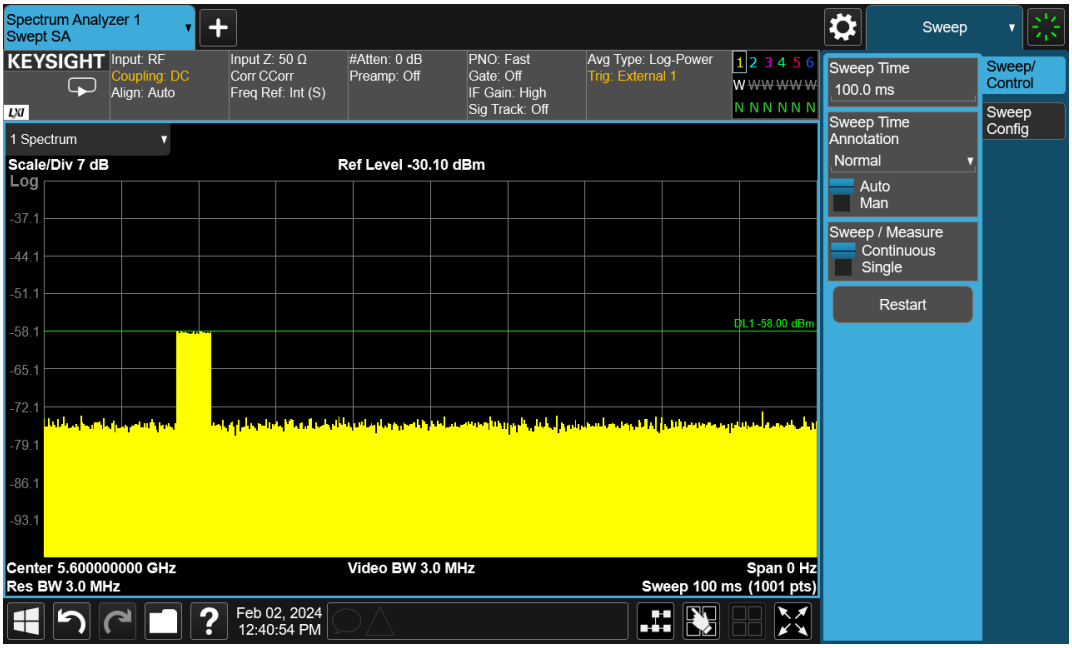
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 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.	



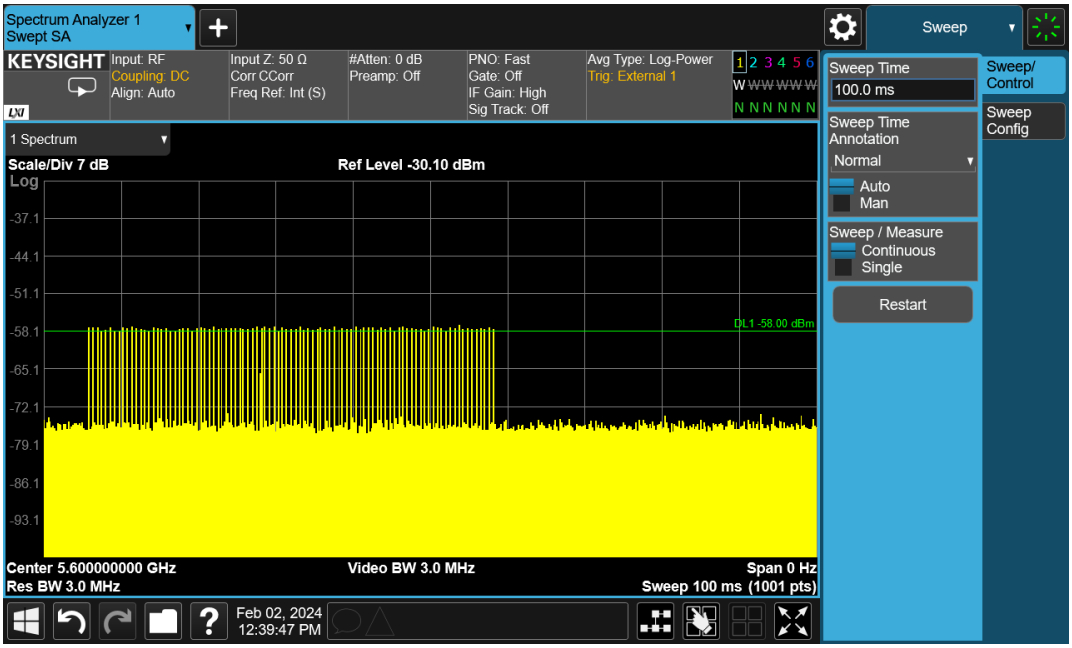
Plot 1: Radar Level 0



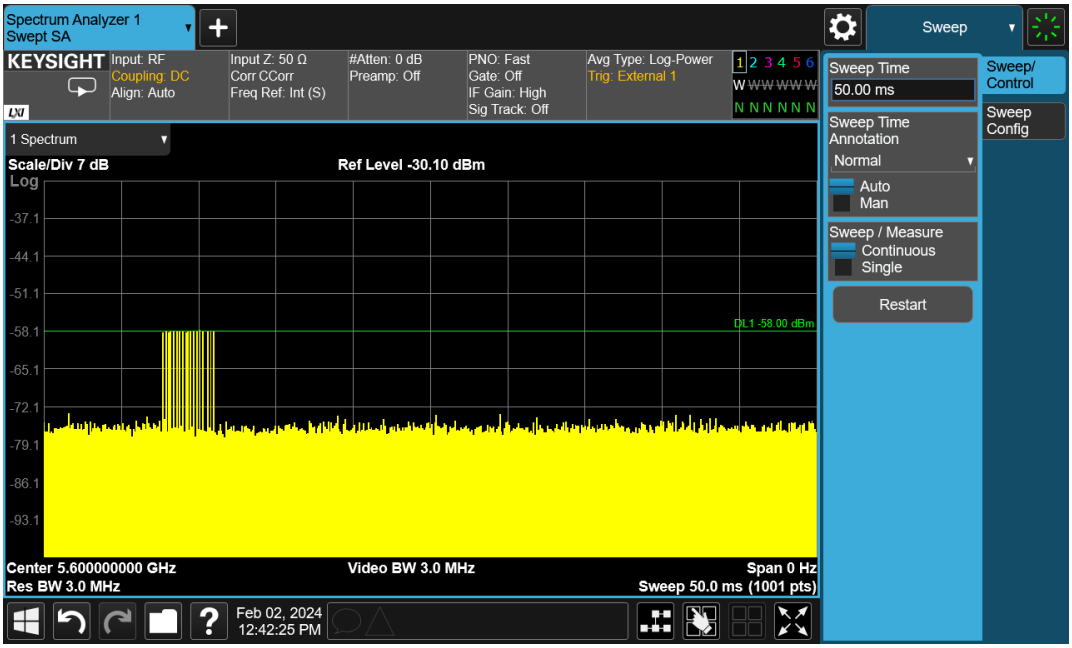
Plot 2: Radar Level 1



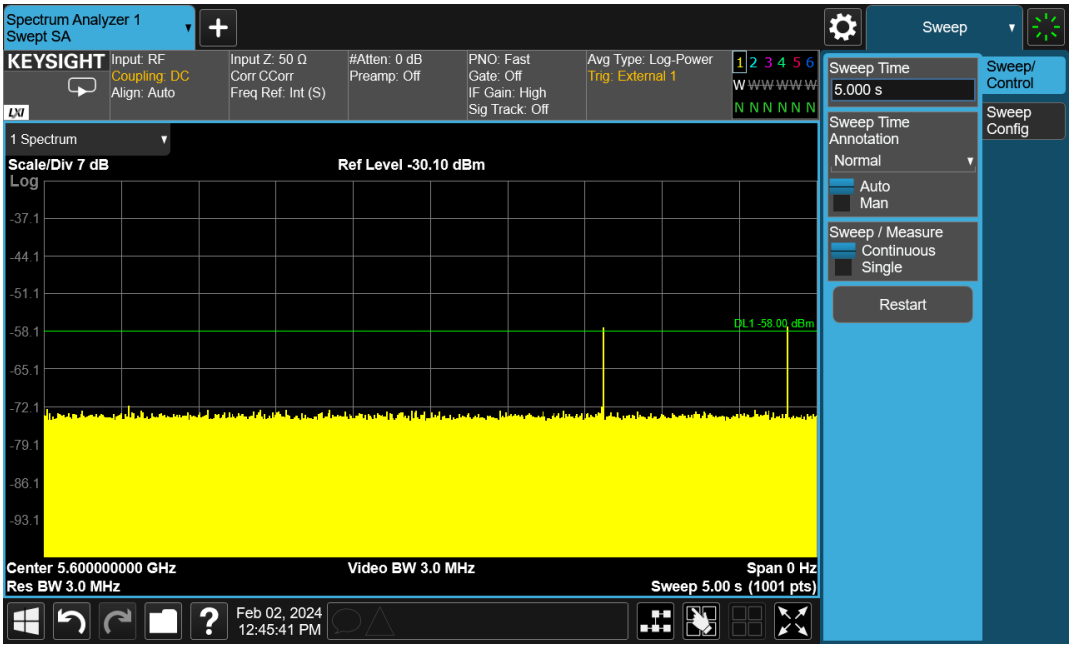
Plot 3: Radar Level 2



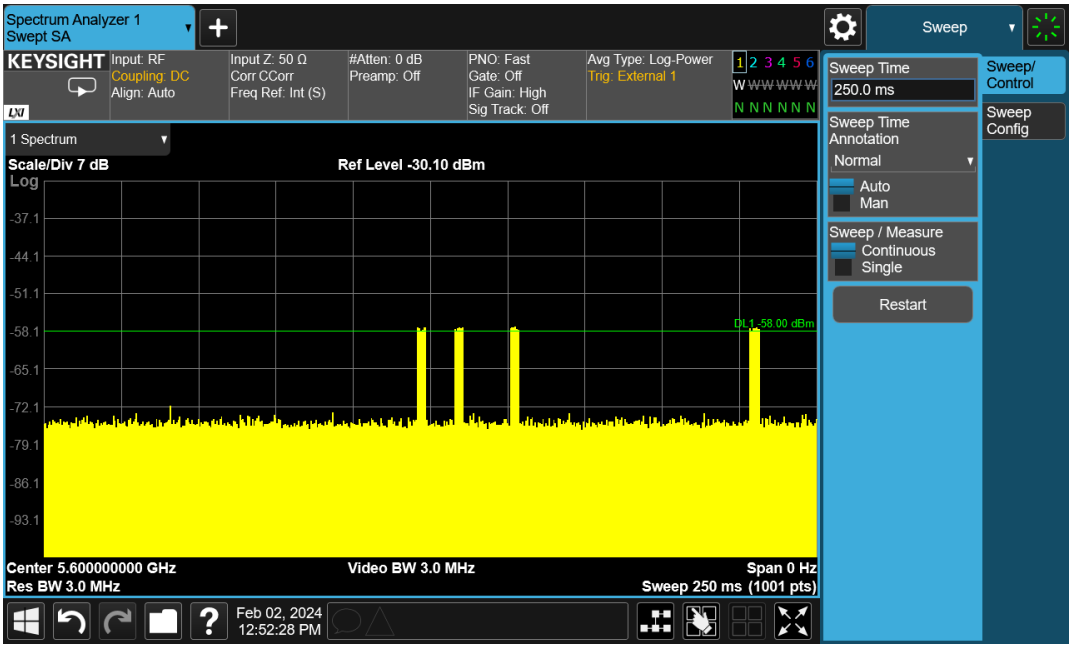
Plot 4: Radar Level 3



Plot 5: Radar Level 4



Plot 6: Radar Level 5



Plot 7: Radar Level 6

5.7.1 Channel Availability Check (CAC)

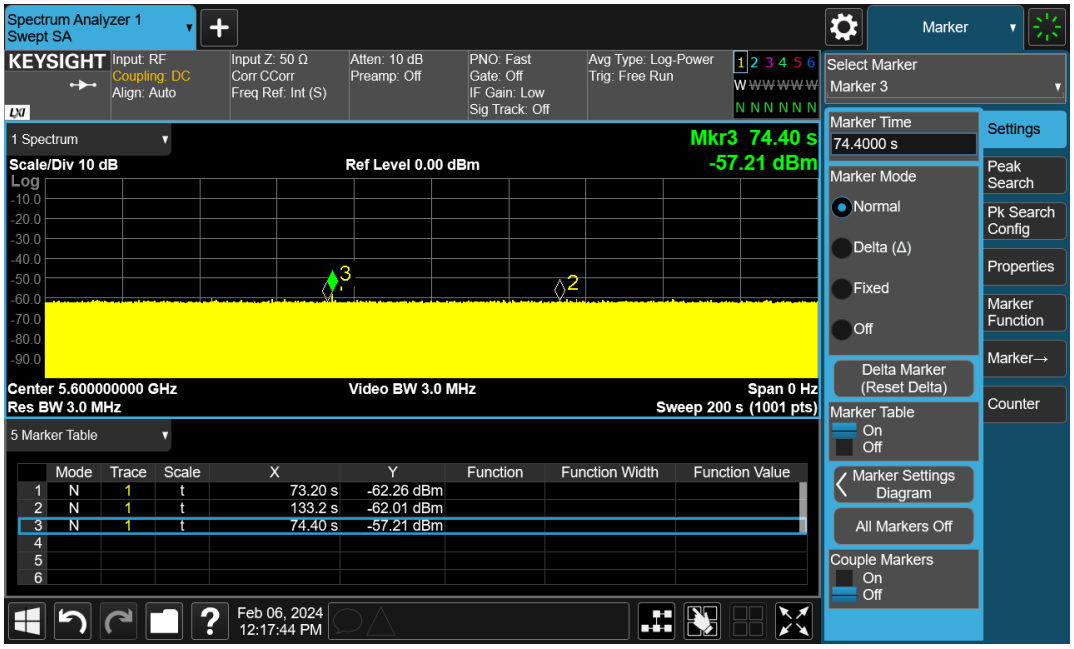
The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-east 1 minute shall be monitored on the intended operating frequency. For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence 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.

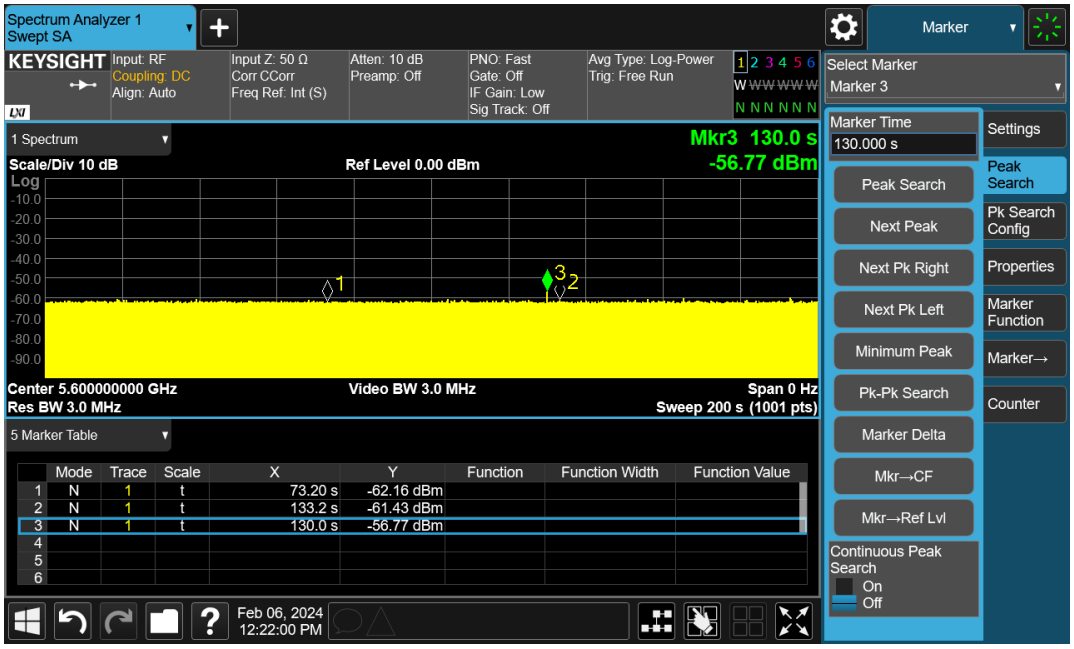
For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated 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



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

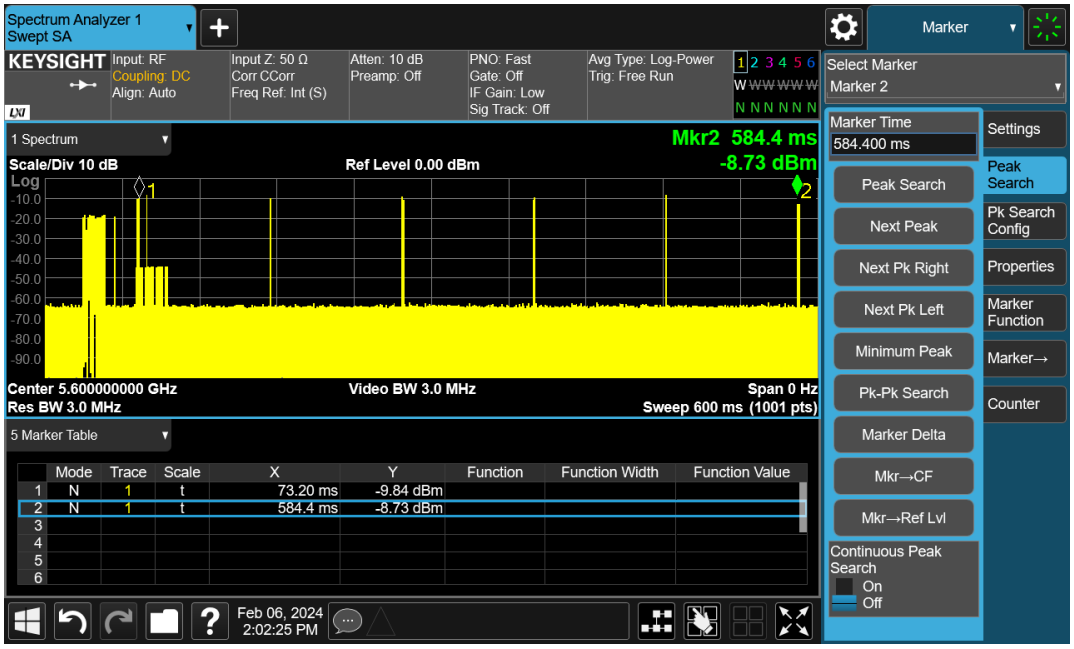
Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This 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.

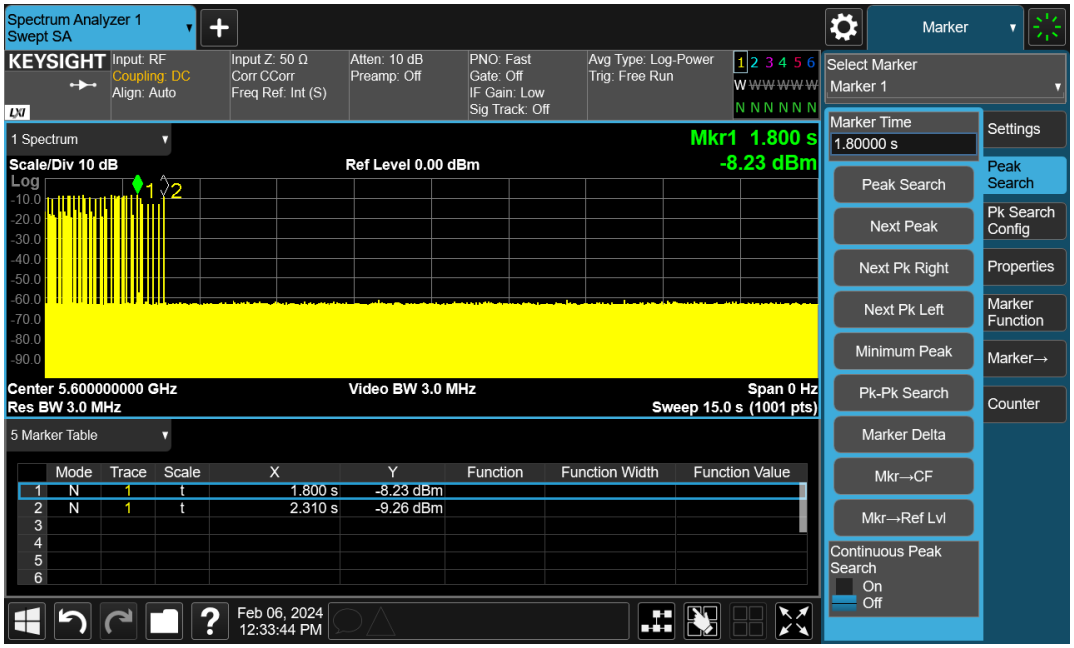
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots below.

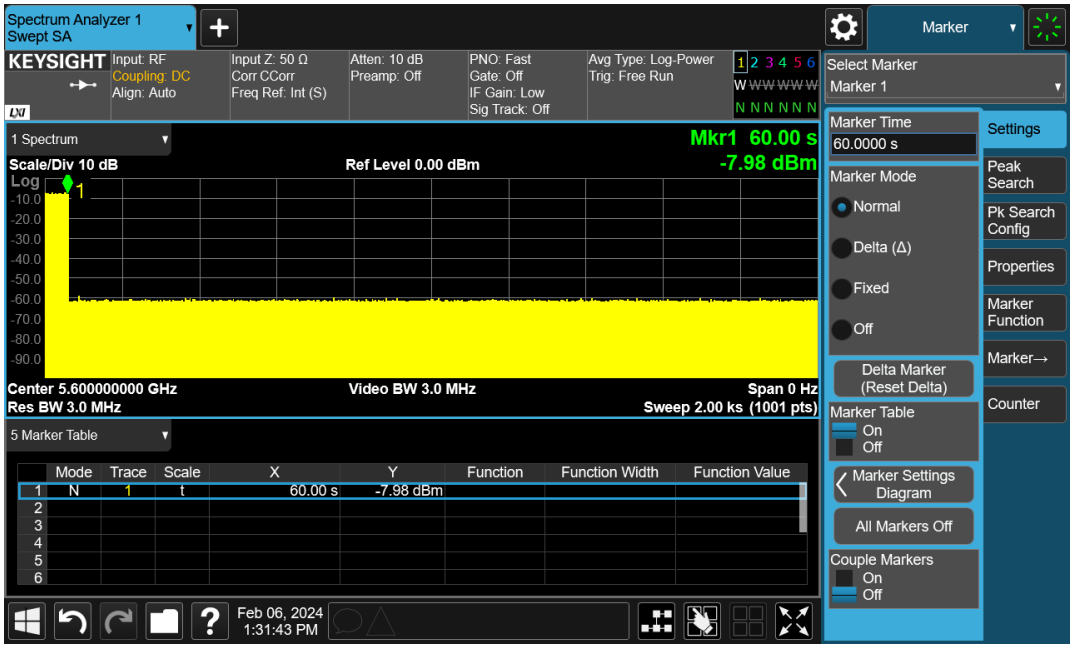
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



Plot 11: Channel Close (250ms aggregate)



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	
F_Low 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	1	1	1	1	1	1	1	1	1	1	100
F_High 5610	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											100
Detection Bandwidth = FH-FL = 5590 MHz - 5610 MHz = 20 MHz											
99% Bandwidth = 19.8 MHz											

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	
F_Low 5570	1	1	1	1	1	1	1	1	1	1	100
5580	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	1	1	1	1	1	100
5600	1	1	1	1	1	1	1	1	1	1	100
F_High 5610	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											100
Detection Bandwidth = FH-FL = 5570 MHz - 5610 MHz = 40 MHz											
99% Bandwidth = 39.6 MHz											

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	
F_Low 5570	1	1	1	1	1	1	1	1	1	1	100
5590	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
5630	1	1	1	1	1	1	1	1	1	1	100
F_High 5650	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											100
Detection Bandwidth = FH-FL = 5570 MHz - 5650 MHz = 80 MHz											
99% Bandwidth = 79.2 MHz											

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	
F_Low 5490	1	1	1	1	1	1	1	1	1	1	100
5530	1	1	1	1	1	1	1	1	1	1	100
5570	1	1	1	1	1	1	1	1	1	1	100
5610	1	1	1	1	1	1	1	1	1	1	100
F_High 5650	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											100
Detection Bandwidth = FH-FL = 5490 MHz - 5650 MHz = 160 MHz											
99% Bandwidth = 158.4 MHz											

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	30	30	100%
Type 2	22	30	73%
Type 3	20	30	67%
Type 4	25	30	83%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	97	120	81%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	18	1	3066	y
2	61	1	878	y
3	59	1	898	y
4	83	1	638	y
5	58	1	918	y
6	98	1	538	y
7	70	1	758	y
8	67	1	798	y
9	76	1	698	y
10	63	1	838	y
11	74	1	718	y
12	86	1	618	y
13	57	1	938	y
14	89	1	598	y
15	72	1	738	y
16	19	1	2907	y
17	21	1	2527	y
18	33	1	1621	y
19	39	1	1361	y
20	29	1	1841	y
21	30	1	1793	y
22	22	1	2494	y
23	23	1	2312	y
24	67	1	794	y
25	27	1	2006	y
26	26	1	2077	y
27	81	1	654	y
28	22	1	2479	y
29	27	1	1978	y
30	20	1	2644	y
				30/30: 100%

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	2.3	161	n
2	28	4.6	203	y
3	26	2.9	187	y
4	26	2	217	y
5	28	1.3	153	n
6	26	3.5	186	y
7	27	3.8	215	y
8	28	2.2	178	y
9	23	4.3	203	y
10	23	4.3	214	n
11	23	4.7	192	y
12	25	2.9	227	y
13	28	3.7	202	n
14	24	4.9	185	y
15	28	1.9	215	n
16	24	1.3	220	y
17	25	2.4	161	y
18	25	3.9	160	y
19	28	1.6	157	n
20	25	1	169	y
21	24	3.5	156	y
22	27	1	173	y
23	28	4.1	164	n
24	26	1.2	215	y
25	23	4.6	205	n
26	27	4.4	157	y
27	26	4.2	197	y
28	28	2.9	212	y
29	28	2.6	170	y
30	29	4.5	219	y
				22/30: 73.3%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	8.5	465	y
2	17	8.2	452	y
3	17	7.1	261	n
4	17	8	362	n
5	18	9.5	229	y
6	18	6.6	448	n
7	16	8.6	420	y
8	18	9.5	418	n
9	17	7.6	499	y
10	16	9.5	270	y
11	17	9.7	301	y
12	17	6.4	252	n
13	18	7.8	223	y
14	17	6.9	299	y
15	17	8.9	477	n
16	17	6.5	467	y
17	18	7.3	391	y
18	16	9.6	333	y
19	16	9.1	205	y
20	16	6.2	417	n
21	16	8.5	205	y
22	17	9.2	217	y
23	17	6	397	n
24	17	7.2	330	y
25	16	6.7	490	y
26	17	8.2	469	n
27	16	9.7	476	y
28	18	7.9	486	n
29	17	9.6	270	y
30	17	9.6	477	y
				20/30: 66.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	13	12	207	y
2	14	16.8	408	y
3	13	19	365	y
4	13	16	232	y
5	15	16.1	411	y
6	12	12.6	259	n
7	15	12.1	414	y
8	16	14.4	273	y
9	14	14	260	y
10	12	18.4	399	y
11	15	12.4	208	y
12	15	19.2	228	n
13	15	13.5	286	y
14	14	14.2	498	n
15	14	16	268	y
16	16	15.3	330	y
17	12	13.6	443	y
18	14	18.8	358	y
19	15	11.5	438	y
20	14	15	339	y
21	13	15.7	200	y
22	13	16.5	498	y
23	15	15.4	337	y
24	13	18	428	y
25	14	14.1	310	n
26	14	12.3	423	y
27	14	19.5	274	n
28	14	11.5	384	y
29	16	18.2	341	y
30	12	13.6	284	y
				25/30: 83.3%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	19	1	5600
2	y	7	1	5600
3	y	16	1	5600
4	y	15	1	5600
5	y	11	1	5600
6	y	17	1	5600
7	y	16	1	5600
8	y	12	1	5600
9	y	15	1	5600
10	y	18	1	5600
11	y	5	2	5592
12	y	11	2	5594.4
13	y	19	2	5597.6
14	y	11	2	5594.4
15	y	10	2	5594
16	y	17	2	5596.8
17	y	6	2	5592.4
18	y	8	2	5593.2
19	y	18	2	5597.2
20	y	13	2	5595.2
21	y	10	3	5606
22	y	10	3	5606
23	y	16	3	5603.6
24	y	11	3	5605.6
25	y	11	3	5605.6
26	y	17	3	5603.2
27	y	13	3	5604.8
28	y	18	3	5602.8
29	y	5	3	5608
30	y	18	3	5602.8
	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	30	30	100%
Type 2	27	30	90%
Type 3	23	30	77%
Type 4	26	30	87%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	106	120	88%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS	RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	51	1	1049	y	1	26	1.4	181	y
2	21	1	2606	y	2	25	2.7	193	y
3	21	1	2565	y	3	29	3.5	160	y
4	37	1	1455	y	4	25	1.9	160	y
5	98	1	543	y	5	25	1	201	y
6	21	1	2554	y	6	28	4.2	215	y
7	22	1	2508	y	7	24	2.6	199	y
8	45	1	1194	y	8	25	4.2	187	y
9	54	1	979	y	9	24	4.1	153	y
10	83	1	636	y	10	23	1.5	224	y
11	25	1	2190	y	11	24	3.6	191	y
12	42	1	1264	y	12	26	1.9	170	y
13	43	1	1250	y	13	28	4.3	214	y
14	27	1	2012	y	14	28	1.8	156	y
15	22	1	2454	y	15	28	2.4	154	y
16	77	1	693	y	16	28	1.8	200	n
17	92	1	578	y	17	27	1.8	218	y
18	20	1	2734	y	18	26	2.7	151	y
19	18	1	2997	y	19	28	3.5	228	y
20	22	1	2419	y	20	23	1.1	181	y
21	89	1	595	y	21	23	4.4	226	n
22	35	1	1549	y	22	23	1.3	152	y
23	36	1	1474	y	23	25	2.8	197	y
24	20	1	2739	y	24	25	2.8	155	y
25	23	1	2367	y	25	29	1.8	202	y
26	20	1	2728	y	26	25	4.4	208	y
27	42	1	1283	y	27	29	2.9	180	y
28	36	1	1504	y	28	23	3.8	212	y
29	18	1	2961	y	29	23	1.4	193	y
30	40	1	1350	y	30	23	2.7	165	n
				30/30: 100%					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	8.4	281	y
2	16	9.9	317	y
3	17	6.9	280	n
4	17	9	269	y
5	17	7.7	416	y
6	17	9.9	468	y
7	18	8.6	379	y
8	17	6	478	n
9	17	7.1	325	y
10	18	7.3	386	y
11	18	7.7	416	n
12	18	7	203	y
13	17	8.5	202	y
14	17	9	247	n
15	17	7.8	357	y
16	17	9.2	301	y
17	16	6.7	314	n
18	17	9.6	497	y
19	18	7.5	264	y
20	17	9.2	404	n
21	17	6.3	475	y
22	17	8.2	453	y
23	17	6	468	y
24	18	9.1	377	n
25	17	8.8	387	y
26	18	8.2	485	y
27	18	6.8	348	y
28	16	9.2	350	y
29	17	6.9	285	y
30	18	7.3	291	y
				23/30: 76.7%

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	12	15.9	396	y
2	16	13.2	233	y
3	16	15.6	353	y
4	16	17.3	450	y
5	14	11.9	413	y
6	15	16	404	y
7	13	11.8	351	y
8	12	12.8	201	y
9	14	18.9	331	n
10	14	11.5	362	y
11	16	12.4	441	y
12	14	16.1	282	y
13	14	12.4	481	y
14	15	17	263	y
15	13	19.3	427	y
16	14	13.3	403	y
17	12	12.2	296	y
18	13	19.7	241	n
19	15	15	309	y
20	16	13.6	403	n
21	12	14.2	399	y
22	12	15.7	240	y
23	16	18.8	246	y
24	16	14.6	483	y
25	14	15.8	416	n
26	13	17	306	y
27	16	14.8	492	y
28	16	16.2	240	y
29	12	19.2	229	y
30	15	15.7	248	y
				26/30: 86.7%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	12	1	5500
2	y	13	1	5500
3	y	12	1	5500
4	y	17	1	5500
5	y	12	1	5500
6	y	15	1	5500
7	y	8	1	5500
8	y	18	1	5500
9	y	17	1	5500
10	y	19	1	5500
11	y	7	2	5493.8
12	y	19	2	5498.6
13	y	13	2	5496.2
14	y	9	2	5494.6
15	y	19	2	5498.6
16	y	12	2	5495.8
17	y	15	2	5497
18	y	17	2	5497.8
19	y	16	2	5497.4
20	y	6	2	5493.4
21	y	11	3	5504.6
22	y	17	3	5502.2
23	y	13	3	5503.8
24	y	18	3	5501.8
25	y	6	3	5506.6
26	y	7	3	5506.2
27	y	9	3	5505.4
28	y	9	3	5505.4
29	y	7	3	5506.2
30	y	9	3	5505.4
	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%

80 MHz

Summary			
Type	**Detections**	**Trials**	**Detection Probability**
Type 1	29	30	97%
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	103	120	86%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	31	1	1710	y
2	42	1	1263	y
3	58	1	912	y
4	23	1	2307	y
5	18	1	2941	y
6	47	1	1139	y
7	80	1	661	y
8	21	1	2521	y
9	19	1	2832	y
10	19	1	2919	y
11	34	1	1555	y
12	20	1	2667	y
13	53	1	999	y
14	79	1	673	y
15	23	1	2380	y
16	29	1	1857	y
17	33	1	1626	y
18	43	1	1249	y
19	95	1	558	y
20	29	1	1842	y
21	24	1	2277	y
22	26	1	2106	y
23	27	1	1955	n
24	21	1	2607	y
25	33	1	1603	y
26	53	1	1000	y
27	36	1	1471	y
28	28	1	1939	y
29	48	1	1110	y
30	20	1	2756	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	24	1.8	159	y
2	25	3.9	171	y
3	27	2.1	176	y
4	24	4.6	222	y
5	27	1.3	155	y
6	29	1.1	164	y
7	26	1.7	200	y
8	26	2.1	216	y
9	28	2.9	204	y
10	26	3.5	177	y
11	24	2.5	181	y
12	27	3.7	154	y
13	23	1.6	152	y
14	28	1.6	176	y
15	24	3.3	219	y
16	24	2.1	159	y
17	26	4.2	173	y
18	24	4.9	194	n
19	24	3.6	183	n
20	29	4.7	171	y
21	29	3.5	195	y
22	26	1.3	151	y
23	27	2.4	158	y
24	27	4.8	203	y
25	28	1.3	214	y
26	23	4.4	189	n
27	24	2.2	224	y
28	27	2.4	172	n
29	23	1.7	193	y
30	27	3.1	208	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	7	473	y
2	17	6.5	359	y
3	16	8.7	315	y
4	18	9	336	y
5	18	8.3	355	y
6	17	6.4	363	y
7	17	8.4	230	y
8	17	7.3	309	y
9	18	7.5	311	n
10	18	9.8	234	n
11	16	6.1	262	y
12	17	6.3	341	y
13	17	6.6	388	y
14	17	9.1	470	y
15	17	7.9	324	y
16	17	9.5	209	y
17	18	7.9	334	y
18	17	8.4	290	y
19	17	9.5	234	y
20	17	8.2	385	n
21	18	7	438	y
22	17	6.9	268	n
23	17	9.9	276	y
24	18	6.9	223	y
25	17	8.2	392	y
26	16	6.1	430	y
27	18	6.5	455	y
28	17	9.7	355	n
29	18	9.8	359	n
30	17	9.2	303	y
				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	13	19.1	339	y
2	16	16.8	251	n
3	15	16.3	275	y
4	14	15.4	216	y
5	16	12.8	455	y
6	16	11	481	y
7	15	19.3	475	y
8	13	15.6	359	y
9	16	19.1	339	n
10	14	15.6	242	y
11	13	18.3	419	y
12	13	13.8	457	y
13	14	11.2	265	y
14	13	15.8	214	y
15	13	12.4	399	y
16	14	19.6	310	n
17	13	11.2	318	n
18	14	16.1	338	y
19	12	14.5	335	y
20	14	11.7	228	y
21	14	16	488	y
22	15	18.3	207	n
23	15	11.7	470	y
24	13	18.3	245	y
25	16	13.5	255	y
26	15	14.4	210	y
27	14	14	491	y
28	14	15.5	403	n
29	13	18	444	y
30	13	18.6	468	y
				24/30: 80%

TYPE 5	Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	**Detection (yes/no)**	**Chirp Width (MHz)**	**Subset**	**Fc**
1	y	16	1	5610
2	y	12	1	5610
3	y	11	1	5610
4	y	19	1	5610
5	y	13	1	5610
6	y	16	1	5610
7	y	10	1	5610
8	y	14	1	5610
9	y	18	1	5610
10	y	5	1	5610
11	y	17	2	5576.8
12	y	9	2	5573.6
13	y	11	2	5574.4
14	y	16	2	5576.4
15	y	17	2	5576.8
16	y	15	2	5576
17	y	14	2	5575.6
18	y	14	2	5575.6
19	y	18	2	5577.2
20	y	15	2	5576
21	y	9	3	5646.4
22	y	9	3	5646.4
23	y	8	3	5646.8
24	y	5	3	5648
25	y	13	3	5644.8
26	y	18	3	5642.8
27	y	5	3	5648
28	y	16	3	5643.6
29	y	17	3	5643.2
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	29	30	97%
Type 2	25	30	83%
Type 3	25	30	83%
Type 4	24	30	80%
Type 5	30	30	100%
Type 6	30	30	100%
Aggregate 1-4	103	120	86%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS	RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	51	1	1048	y	1	27	4.4	193	y
2	25	1	2151	y	2	28	3.2	151	y
3	47	1	1124	y	3	23	3.5	159	n
4	47	1	1143	y	4	26	4	169	y
5	21	1	2618	y	5	27	1.3	157	y
6	34	1	1589	y	6	24	4	191	y
7	27	1	2015	y	7	28	3.4	209	y
8	21	1	2624	y	8	24	4.2	197	y
9	21	1	2587	y	9	27	3.8	179	y
10	20	1	2705	y	10	26	2.3	196	y
11	47	1	1145	y	11	25	2	224	y
12	27	1	2026	y	12	28	1.4	212	y
13	26	1	2080	y	13	27	1.3	163	n
14	45	1	1176	y	14	27	4.3	179	y
15	25	1	2116	y	15	24	4	178	n
16	23	1	2357	n	16	29	1.3	190	y
17	22	1	2428	y	17	27	1.6	196	y
18	76	1	696	y	18	24	1.2	220	y
19	27	1	1965	y	19	26	4.6	177	y
20	25	1	2144	y	20	25	3.7	189	n
21	21	1	2581	y	21	24	3.6	197	n
22	25	1	2171	y	22	25	1.7	203	y
23	25	1	2169	y	23	24	4.3	213	y
24	22	1	2465	y	24	28	1.1	193	y
25	20	1	2727	y	25	23	3.6	182	y
26	22	1	2464	y	26	25	1.5	182	y
27	24	1	2228	y	27	26	3.2	179	y
28	64	1	835	y	28	26	4.2	223	y
29	19	1	2795	y	29	26	3.8	154	y
30	73	1	729	y	30	25	2.8	201	y
				29/30: 96.7%					25/30: 83.3%

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS	RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)	Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	17	8.7	227	y	1	16	17.7	448	y
2	17	7.7	313	y	2	13	19.3	310	n
3	17	8.3	393	y	3	14	11.6	334	y
4	18	6.1	394	y	4	14	17	402	y
5	16	6.4	420	n	5	14	11.1	357	y
6	18	9.7	334	y	6	15	18.4	478	y
7	16	8.8	452	y	7	16	17.4	252	y
8	17	9.9	442	y	8	13	18.8	317	n
9	17	7.2	407	y	9	14	13.1	323	y
10	17	6.3	423	y	10	13	13	284	y
11	17	7.6	481	y	11	13	18.3	424	y
12	17	6.4	380	y	12	13	16.9	281	y
13	16	8.8	343	y	13	15	13.9	290	n
14	17	8.3	411	y	14	12	19.1	483	y
15	17	9	430	y	15	12	13.8	336	y
16	17	7.9	437	y	16	15	19	301	n
17	17	9.6	215	y	17	14	16.4	439	n
18	17	6.7	328	y	18	12	17	255	y
19	17	6.2	353	y	19	15	12.8	428	y
20	18	7.3	205	y	20	12	15.7	417	y
21	17	7.2	315	n	21	13	15	385	n
22	18	6.9	295	y	22	13	16.9	295	y
23	17	8.2	491	y	23	16	19	404	y
24	16	6.4	492	n	24	13	14.5	325	y
25	17	6.8	244	y	25	12	12.8	459	y
26	18	9.7	452	y	26	13	13.7	350	y
27	18	8.7	332	y	27	14	11.5	348	y
28	17	9.1	236	n	28	16	13.6	208	y
29	17	8	421	y	29	13	16	456	y
30	17	7	485	n	30	12	16.5	294	y
				25/30: 83.3%					24/30: 80%

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	16	1	5570
2	y	10	1	5570
3	y	18	1	5570
4	y	6	1	5570
5	y	10	1	5570
6	y	5	1	5570
7	y	6	1	5570
8	y	19	1	5570
9	y	6	1	5570
10	y	11	1	5570
11	y	18	2	5497.2
12	y	17	2	5496.8
13	y	15	2	5496
14	y	9	2	5493.6
15	y	10	2	5494
16	y	6	2	5492.4
17	y	13	2	5495.2
18	y	16	2	5496.4
19	y	14	2	5495.6
20	y	13	2	5495.2
21	y	14	3	5644.4
22	y	7	3	5647.2
23	y	18	3	5642.8
24	y	17	3	5643.2
25	y	11	3	5645.6
26	y	13	3	5644.8
27	y	18	3	5642.8
28	y	16	3	5643.6
29	y	9	3	5646.4
30	y	11	3	5645.6
	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%

-- End of Test Report --