Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	5.74	2.01	-	-
6185	3.21	3.70	-	-
6345	2.83	2.75	-	-
6505	1.26	1.73	-	-
6665	2.20	2.29	-	-
6825	2.15	5.86	-	-
6985	5.66	3.93	-	-

Table 346 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	3.19	3.53	-	-
6175 (RU52.37)	3.62	4.54	-	-
6415 (RU52.40)	2.96	3.33	-	-
6435 (RU52.37)	2.97	3.26	-	-
6475 (RU52.37)	3.28	3.24	-	-
6515 (RU52.40)	3.06	3.47	-	-
6535 (RU52.37)	3.76	4.18	-	-
6695 (RU52.37)	3.54	3.80	-	-
6855 (RU52.37)	2.77	3.05	-	-
6875 (RU52.37)	2.99	2.91	-	-
6875 (RU52.40)	3.11	2.88	-	-
6895 (RU52.37)	3.78	3.62	-	-
6995 (RU52.37)	3.40	3.69	-	-
7095 (RU52.37)	3.91	3.17	-	-

Table 347 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	3.33	3.59	-	-
6175 (RU106.53)	3.71	4.89	-	-
6415 (RU106.54)	2.67	3.55	-	-
6435 (RU106.53)	2.99	3.25	-	-
6475 (RU106.53)	3.16	3.07	-	-
6515 (RU106.54)	3.17	3.44	-	-
6535 (RU106.53)	3.81	3.64	-	-
6695 (RU106.53)	3.42	3.56	-	-
6855 (RU106.53)	3.34	3.12	-	-
6875 (RU106.53)	3.69	2.91	-	-
6875 (RU106.54)	2.83	2.83	-	-
6895 (RU106.53)	3.91	3.98	-	-
6995 (RU106.53)	4.03	3.79	-	-
7095 (RU106.53)	3.79	3.68	-	-

Table 348 - Unwanted Emissions Within the Band Results

MIMO SDM

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU	2.40	7174.400
802.11ax HE40 SU	4.69	6814.400
802.11ax HE80 SU	4.84	6314.640
802.11ax HE160 SU	0.29	6789.500

Table 349 - Unwanted Emissions Within the RLAN Band Summary Results

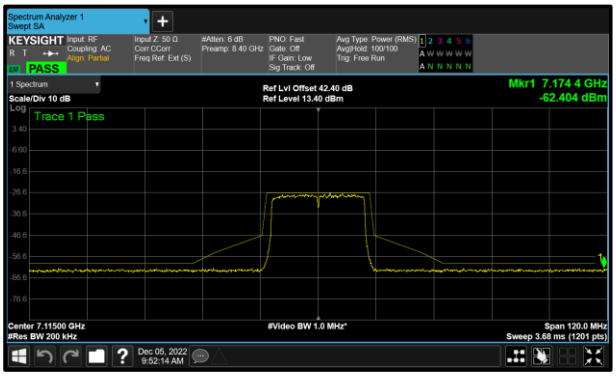


Figure 91 - A (Core 0) 802.11ax HE20 SU 7115 MHz (CH233)

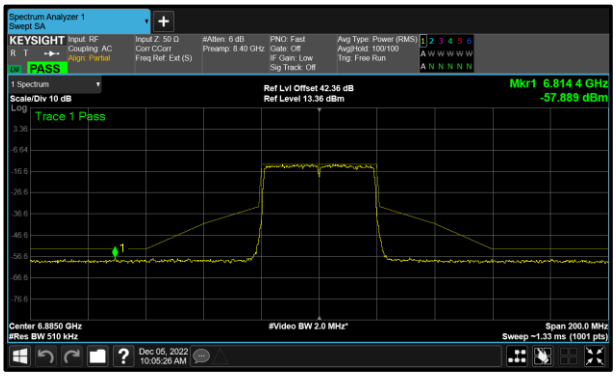


Figure 92 - A (Core 0) 802.11ax HE40 SU 6885 MHz (CH187)

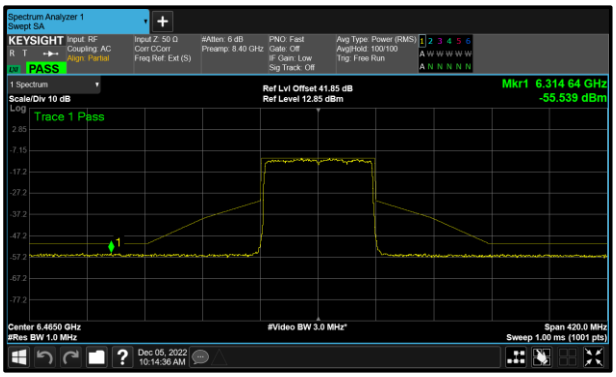


Figure 93 - A (Core 0) 802.11ax HE80 SU 6465 MHz (CH103)

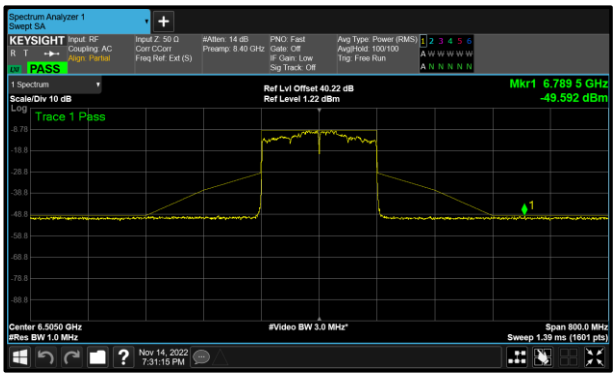


Figure 94 - B (Core 1) 802.11ax HE160 SU 6505 MHz (CH111)

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 RU106	5.19	6833.000
802.11ax HE20 RU26	4.87	6831.200
802.11ax HE20 RU52	4.51	6393.500

Table 350 - Unwanted Emissions Within the RLAN Band Summary Results

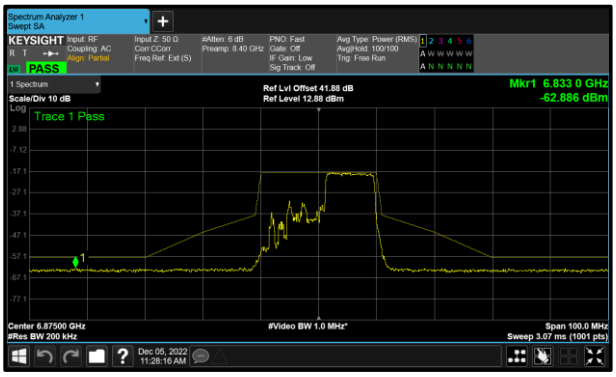


Figure 95 - B (Core 1) 802.11ax HE20 RU106 6875 MHz (CH185)

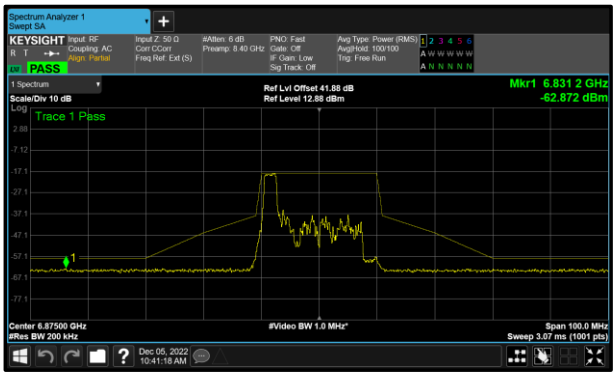


Figure 96 - B (Core 1) 802.11ax HE20 RU26 6875 MHz (CH185)

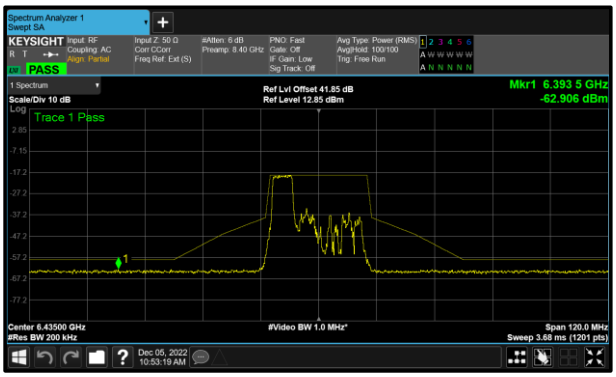


Figure 97 - A (Core 0) 802.11ax HE20 RU52 6435 MHz (CH97)

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	4.70	5.80	-	-
6175	7.85	8.06	-	-
6415	4.06	5.36	-	-
6435	4.29	4.63	-	-
6475	4.89	5.12	-	-
6515	5.29	5.67	-	-
6535	4.93	5.58	-	-
6695	4.29	4.03	-	-
6855	5.31	4.96	-	-
6875	5.64	4.78	-	-
6895	5.09	5.36	-	-
6995	7.32	7.24	-	-
7115	2.40	2.64	-	-

Table 351 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	5.73	6.27	-	-
6165	6.61	7.11	-	-
6405	5.12	5.35	-	-
6445	4.73	5.27	-	-
6485	5.45	6.01	-	-
6525	5.64	6.32	-	-
6565	6.00	6.19	-	-
6685	6.05	6.23	-	-
6845	5.18	5.93	-	-
6885	4.69	5.24	-	-
6925	6.20	6.64	-	-
7005	6.64	6.83	-	-
7085	6.84	6.63	-	-

Table 352 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	4.86	5.21	-	-
6145	6.57	6.81	-	-
6385	5.21	5.78	-	-
6465	4.84	5.19	-	-
6545	5.46	5.78	-	-
6625	5.46	5.71	-	-
6705	6.07	6.03	-	-
6785	5.49	5.95	-	-
6865	5.23	5.76	-	-
6945	5.65	6.19	-	-
7025	5.94	6.61	-	-

Table 353 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	4.52	2.34	-	-
6185	1.53	3.64	-	-
6345	2.67	2.87	-	-
6505	1.94	0.29	-	-
6665	2.56	0.73	-	-
6825	2.50	2.78	-	-
6985	2.56	3.24	-	-

Table 354 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU26.0)	4.89	5.35	-	-
6175 (RU26.0)	6.49	7.53	-	-
6415 (RU26.8)	5.29	5.71	-	-
6435 (RU26.0)	4.95	5.30	-	-
6475 (RU26.0)	5.48	5.64	-	-
6515 (RU26.8)	5.81	5.85	-	-
6535 (RU26.0)	6.32	6.84	-	-
6695 (RU26.0)	5.80	5.76	-	-
6855 (RU26.0)	5.74	5.26	-	-
6875 (RU26.0)	5.97	4.87	-	-
6875 (RU26.8)	5.25	4.90	-	-
6895 (RU26.0)	6.51	6.40	-	-
6995 (RU26.0)	6.57	6.13	-	-
7095 (RU26.0)	6.96	5.99	-	-

Table 355 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	4.94	5.71	-	-
6175 (RU52.37)	6.26	7.35	-	-
6415 (RU52.40)	5.45	5.85	-	-
6435 (RU52.37)	4.51	4.99	-	-
6475 (RU52.37)	4.98	6.02	-	-
6515 (RU52.40)	5.39	5.72	-	-
6535 (RU52.37)	5.79	6.38	-	-
6695 (RU52.37)	6.28	6.23	-	-
6855 (RU52.37)	6.08	5.49	-	-
6875 (RU52.37)	5.84	5.54	-	-
6875 (RU52.40)	5.73	5.01	-	-
6895 (RU52.37)	6.55	6.68	-	-
6995 (RU52.37)	7.07	6.60	-	-
7095 (RU52.37)	7.19	6.65	-	-

Table 356 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	5.51	5.65	-	-
6175 (RU106.53)	6.41	7.20	-	-
6415 (RU106.54)	5.26	5.82	-	-
6435 (RU106.53)	5.28	5.50	-	-
6475 (RU106.53)	5.47	5.77	-	-
6515 (RU106.54)	5.73	6.18	-	-
6535 (RU106.53)	6.39	6.43	-	-
6695 (RU106.53)	6.59	6.04	-	-
6855 (RU106.53)	5.91	5.86	-	-
6875 (RU106.53)	6.10	5.38	-	-
6875 (RU106.54)	5.73	5.19	-	-
6895 (RU106.53)	6.85	6.66	-	-
6995 (RU106.53)	6.54	5.95	-	-
7095 (RU106.53)	6.39	5.71	-	-

Table 357 - Unwanted Emissions Within the Band Results

MIMO TxBF

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE40 SU	4.85	6276.633
802.11ax HE80 SU	5.19	5796.000

Table 358 - Unwanted Emissions Within the RLAN Band Summary Results

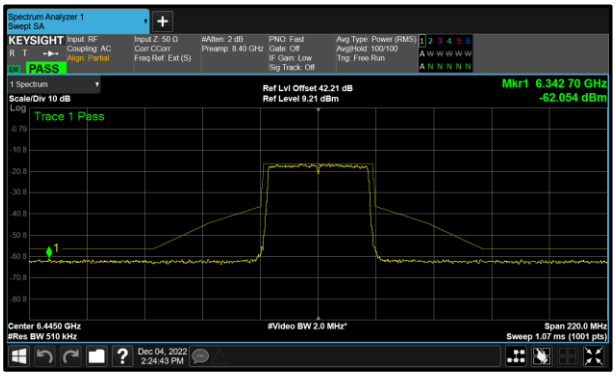


Figure 98 - B (Core 1) 802.11ax HE40 SU 6445 MHz (CH99)

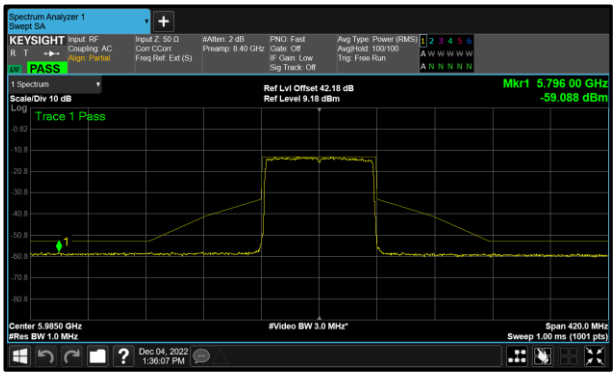


Figure 99 - A (Core 0) 802.11ax HE80 SU 5985 MHz (CH7)

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6125	7.87	6.98	-	-
6245	6.66	6.83	-	-
6405	6.02	5.44	-	-
6445	5.86	4.85	-	-
6485	5.79	5.64	-	-
6525	6.41	5.88	-	-
6565	6.27	5.58	-	-
6685	7.30	7.32	-	-
6845	7.78	7.81	-	-
6885	5.64	6.73	-	-
6925	5.48	6.25	-	-
7005	5.31	6.14	-	-
7085	6.99	7.29	-	-

Table 359 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	5.19	5.86	-	-
6145	7.40	6.29	-	-
6385	6.57	6.17	-	-
6465	5.80	5.86	-	-
6545	5.94	6.09	-	-
6625	5.85	6.11	-	-
6705	6.15	6.75	-	-
6785	6.25	7.33	-	-
6865	6.27	6.63	-	-
6945	7.34	7.16	-	-
7025	6.46	6.75	-	-

Table 360 - Unwanted Emissions Within the Band Results

FCC 47 CFR Part 15, Limit Clause 15.407(b)(6)

For transmitters operating within the 5.925–7.125 GHz bands:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and onehalf times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

ISED RSS-248, Limit Clause 4.7.2(b)

e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz band shall be attenuated (in dB) below the reference power spectral density by:

i. 20 dB at 1 MHz away from the channel edge; and
ii. a linearly interpolated value between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edge and one (1) channel bandwidth from the operating channel centre, respectively; and
iii. 28 dB at one (1) channel bandwidth away from the operating channel centre; and
iv. a linearly interpolated value between 28 dB and 40 dB at frequencies between one (1) channel bandwidth from the channel centre and one- and one-half (1.5) times the channel bandwidth away from the operating channel centre, respectively; and
v. 40 dB at one- and one-half (1.5) times the channel bandwidth away from the channel centre; and
vi. a minimum of 40 dB at frequencies that are further away than one and one-half (1.5) times the channel bandwidth from the channel centre;

2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Multimeter	Fluke	79 Series III	611	12	21-Dec-2022
Hygrometer	Rotronic	I-1000	3068	12	21-Sep-2023
Hygrometer	Rotronic	I-1000	3220	12	15-Nov-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	24-Feb-2023
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	01-Feb-2023
Attenuator 5W 30dB DC-18GHz	Aaren	AT40A-4041-D18-30	5502	12	21-Apr-2023
2-Way Power Divider (2-8 GHz)	Aaren	AT30A-TE0208-2-AF	5685	12	20-Dec-2022
2-Way Power Divider (2-8 GHz)	Aaren	AT30A-TE0208-2-AF	5687	12	20-Dec-2022
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5765	-	O/P Mon
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5766	-	O/P Mon
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
Signal Analyser	Keysight Technologies	N9020B	5919	24	13-Mar-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM SCU003	5932	12	10-May-2023
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6175	12	17-Jul-2023
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6176	12	17-Jul-2023

Table 361

O/P Mon – Output Monitored using calibrated equipment

2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)
ISED RSS-248, Clause
ISED RSS-GEN, Clause, 4.7 and 8.9 and 6.13

2.6.2 Equipment Under Test and Modification State

A2816, S/N: Q64HTFJ22X - Modification State 0

2.6.3 Date of Test

13-October-2022 to 15-October-2022

2.6.4 Test Method

Testing was performed in accordance with KDB 987594 D02 and ANSI C63.10, clause 6.3, 6.5 and 6.6.

Tests were performed in HT20 CDD 2TX MIMO mode with measurements undertaken from 30 MHz to 40 GHz, on channel 45 (6175 MHz), 105 (6475 MHz), 149 (6695 MHz) and 209 (6995 MHz).

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

All testing was performed using the lowest data rate/modulation scheme for the applicable mode.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 12.7.7.2 with max-hold trace to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.2.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz RMS EIRP and -7 dBm/MHz Peak EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBµV/m to µV/m:

10^(Field Strength in dBµV/m/20).

EIRP was converted to field strength at 3m using the following formula:

2.6.5 Test Setup Diagram

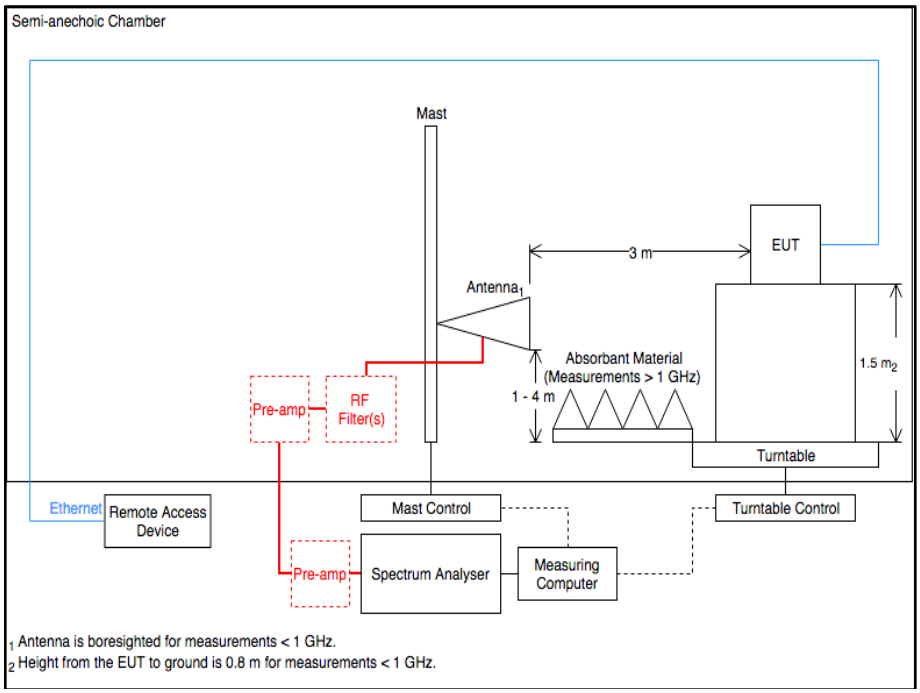


Figure 100 - Radiated Emissions Test Setup Diagram

2.6.6 Environmental Conditions

Ambient Temperature	20.5 - 22.5 °C
Relative Humidity	46.6 - 50.4 %

2.6.7 Test Results

6 GHz WLAN

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 362 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

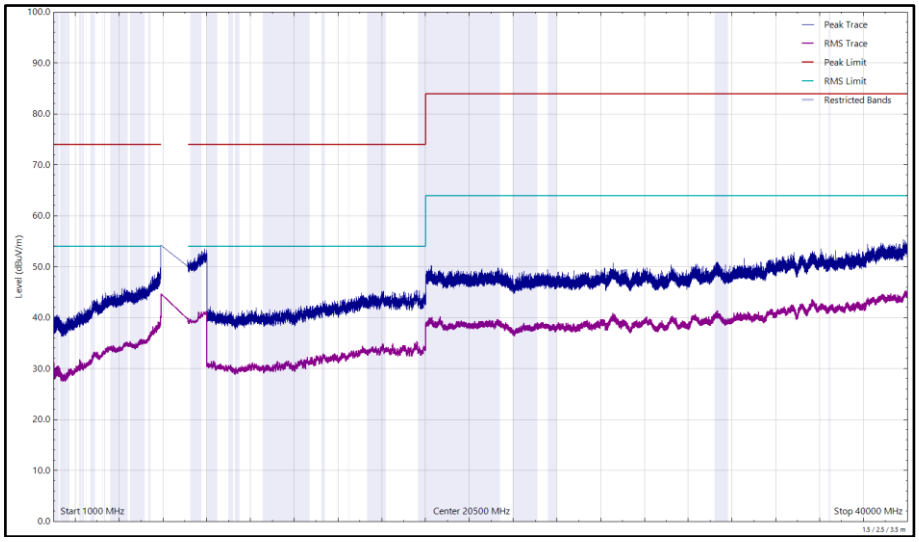


Figure 101 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

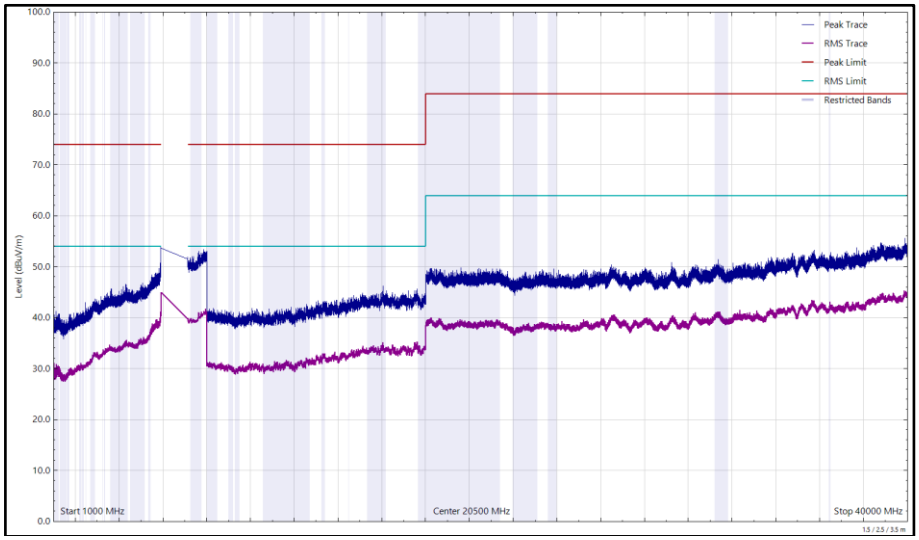


Figure 102 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
32.648	27.00	40.00	-13.00	Q-Peak	117	118	Vertical
8233.295	33.00	54.00	-21.00	RMS	320	103	Vertical

Table 363 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

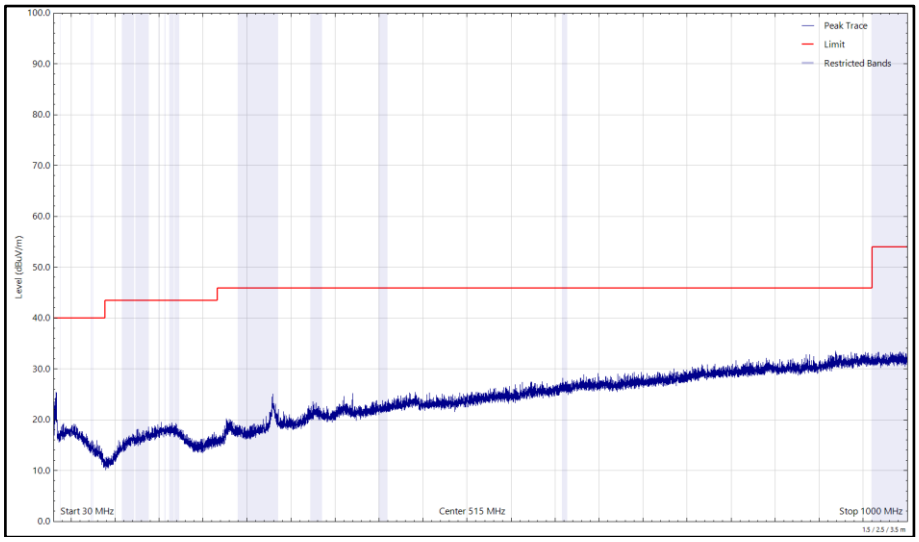


Figure 103 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

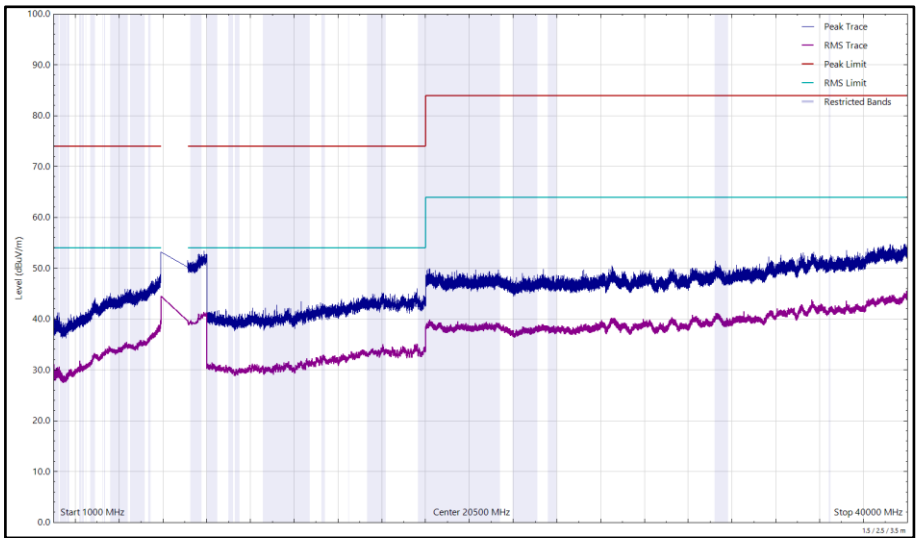


Figure 104 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

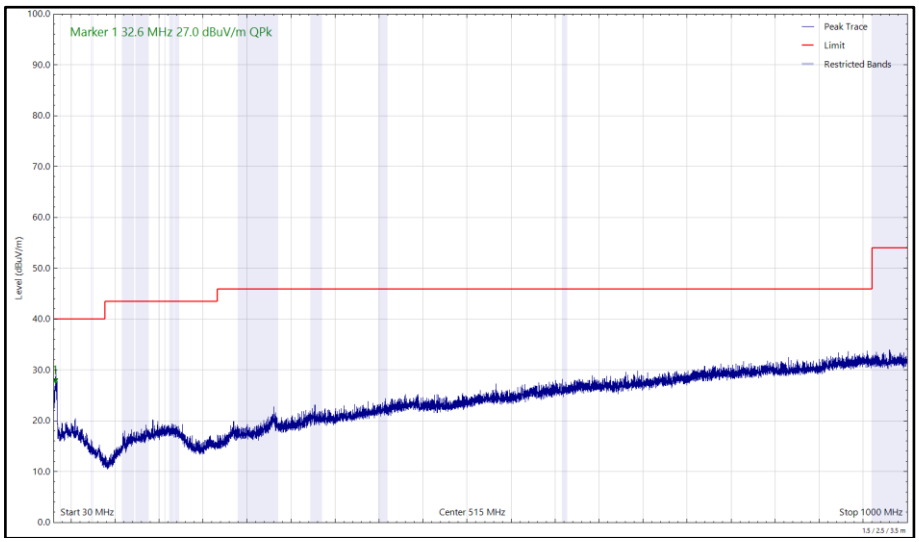


Figure 105 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

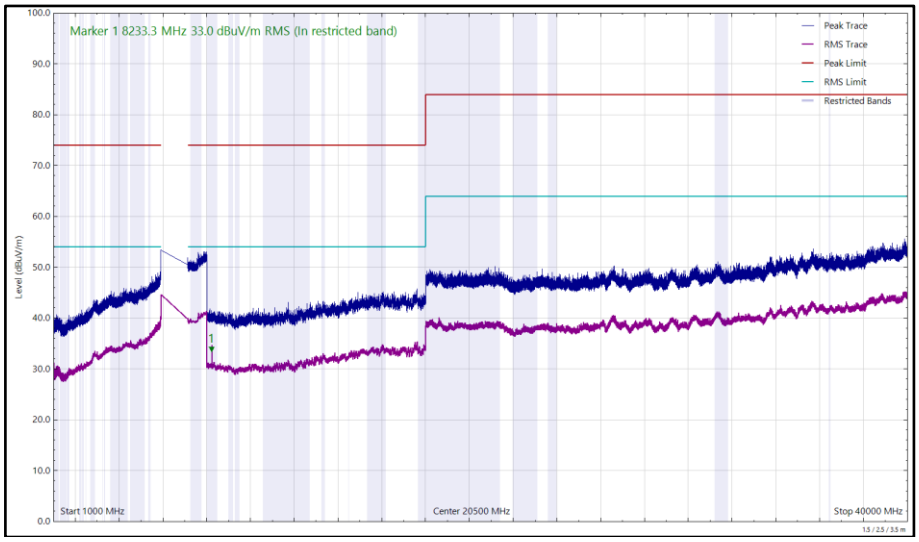


Figure 106 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 364 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

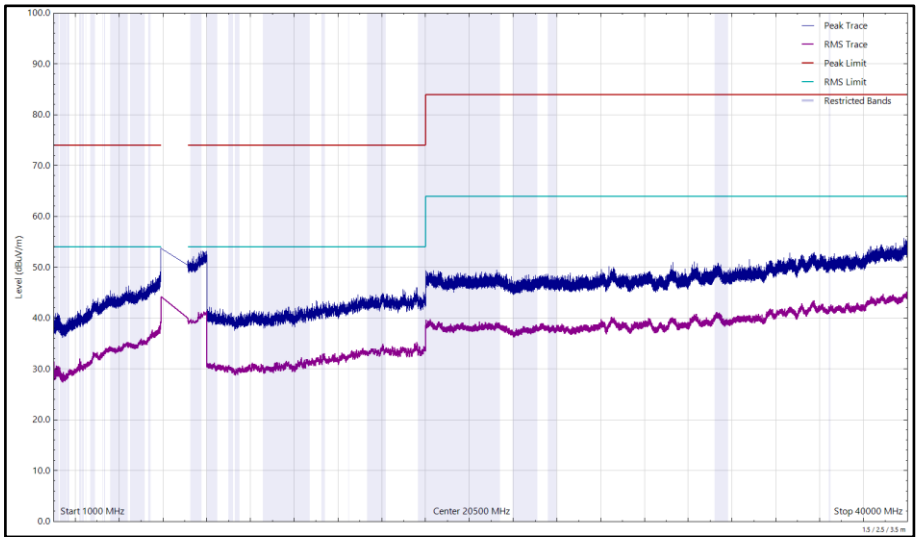
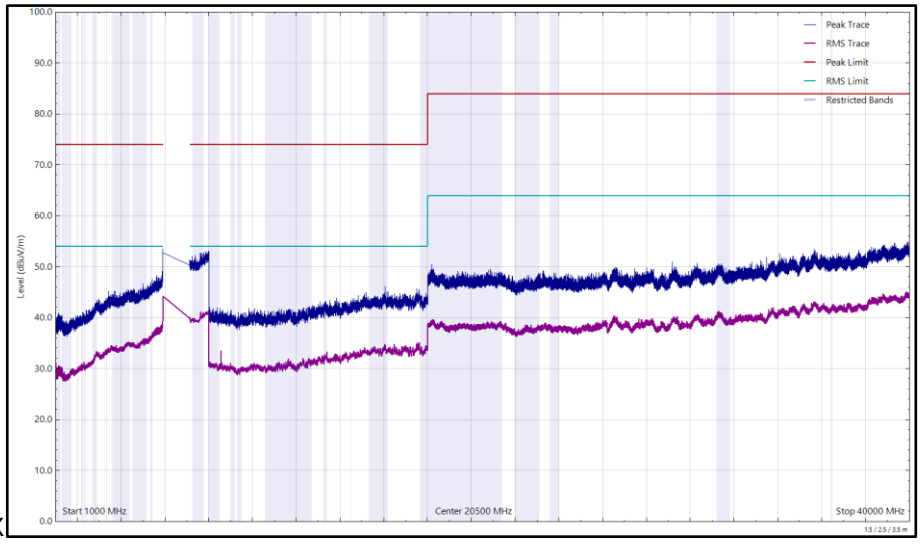


Figure 107 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal



X

Figure 108 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 365 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

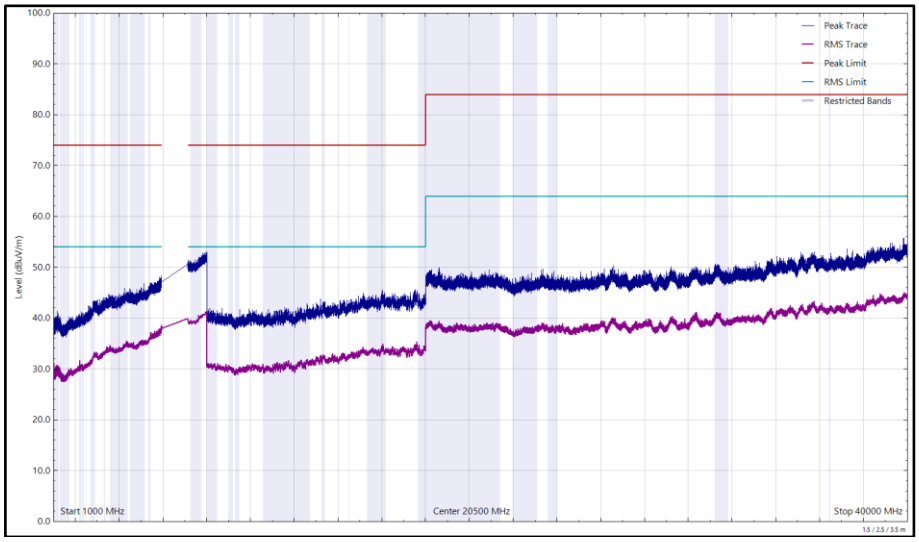


Figure 109 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

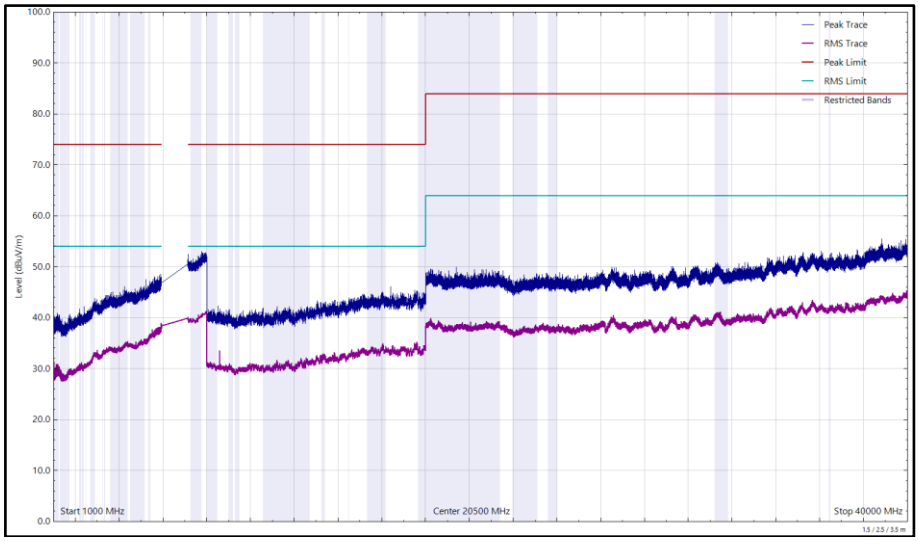


Figure 110 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
33.072	28.95	40.00	-11.05	Q-Peak	350	128	Vertical

Table 366 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

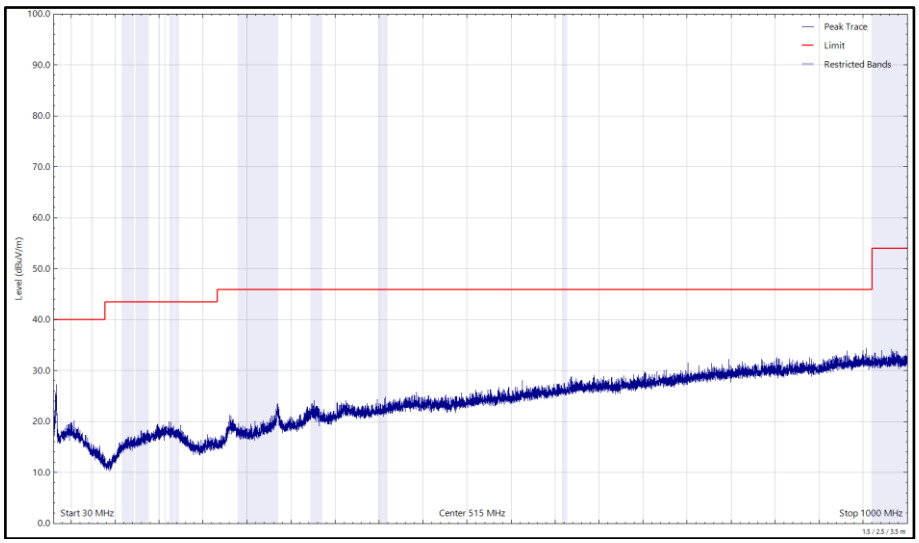


Figure 111 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

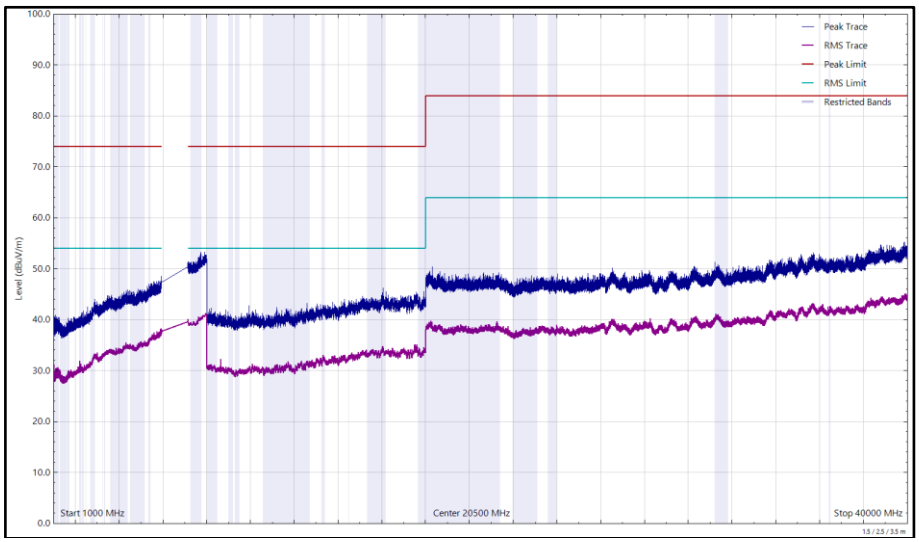


Figure 112 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

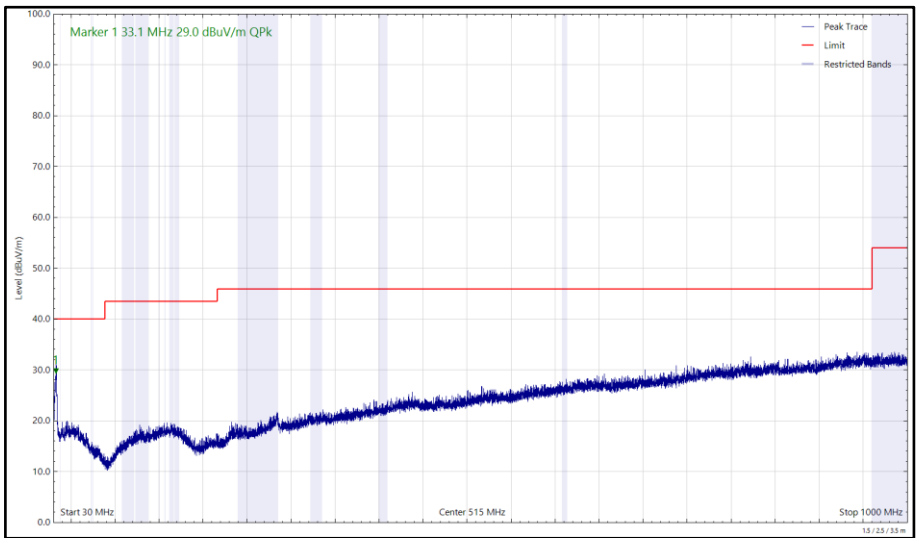


Figure 113 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

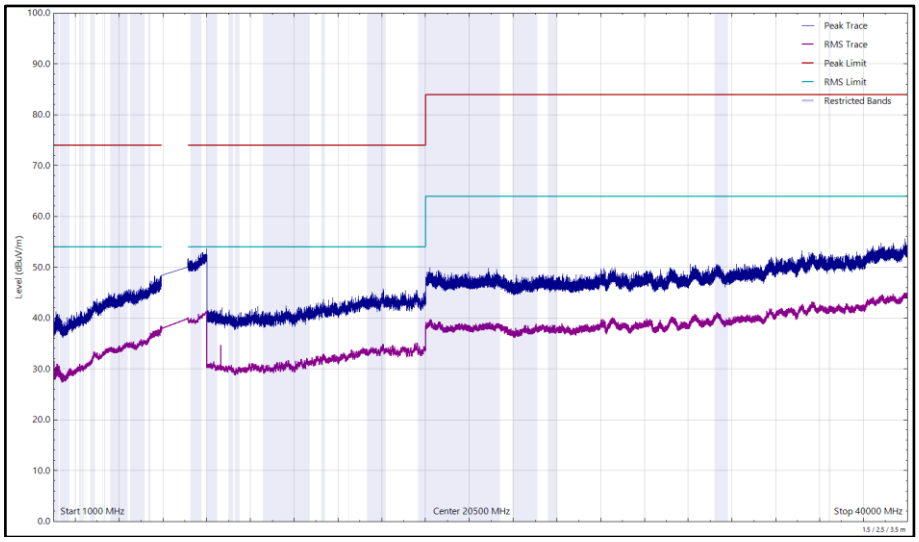


Figure 114 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 367 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

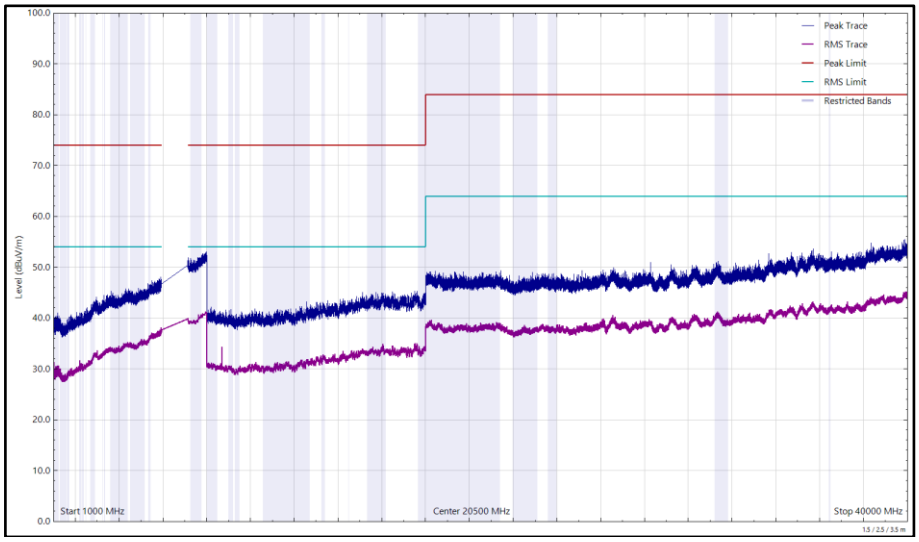


Figure 115 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

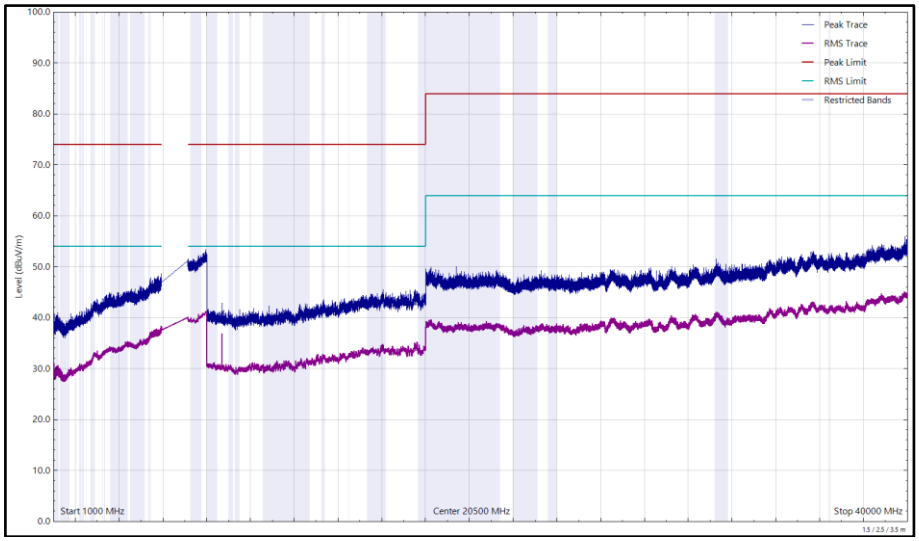


Figure 116 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 368 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

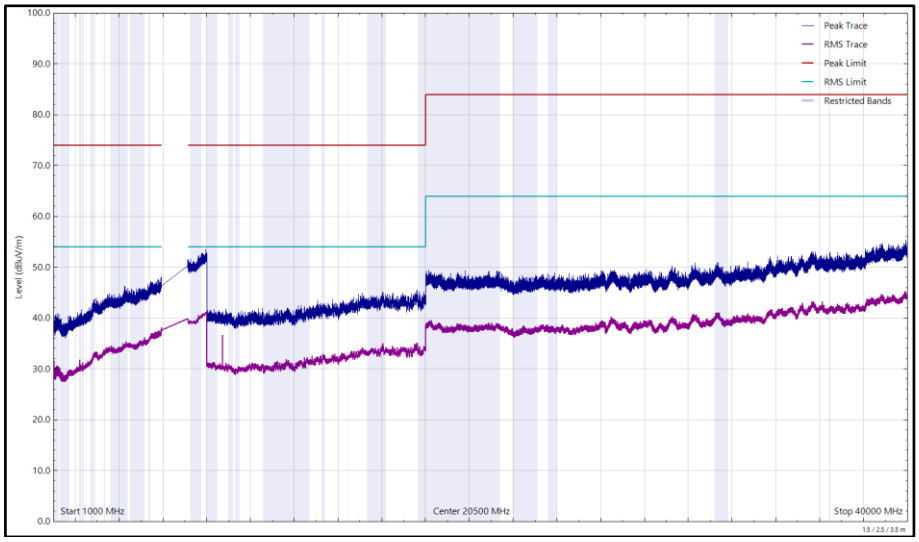


Figure 117 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

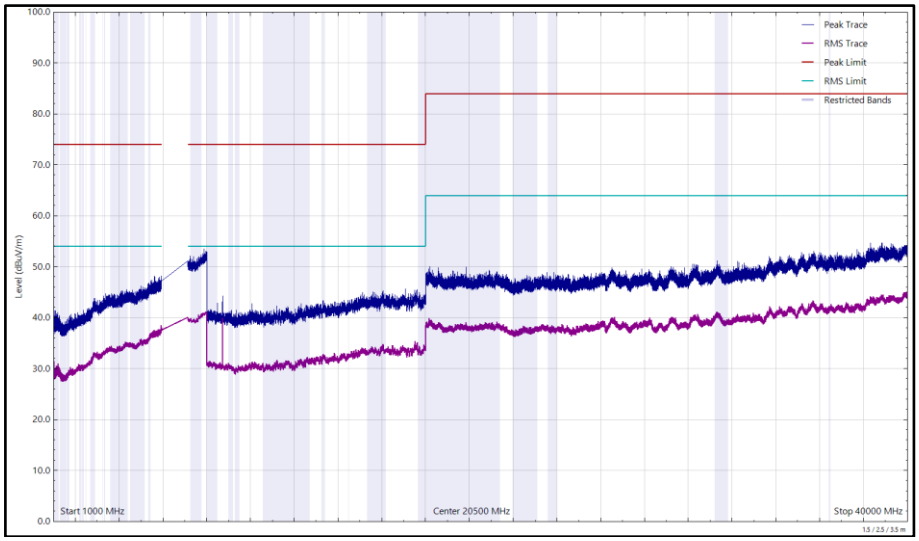


Figure 118 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
33.076	23.62	40.00	-16.38	Q-Peak	360	100	Horizontal

Table 369 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

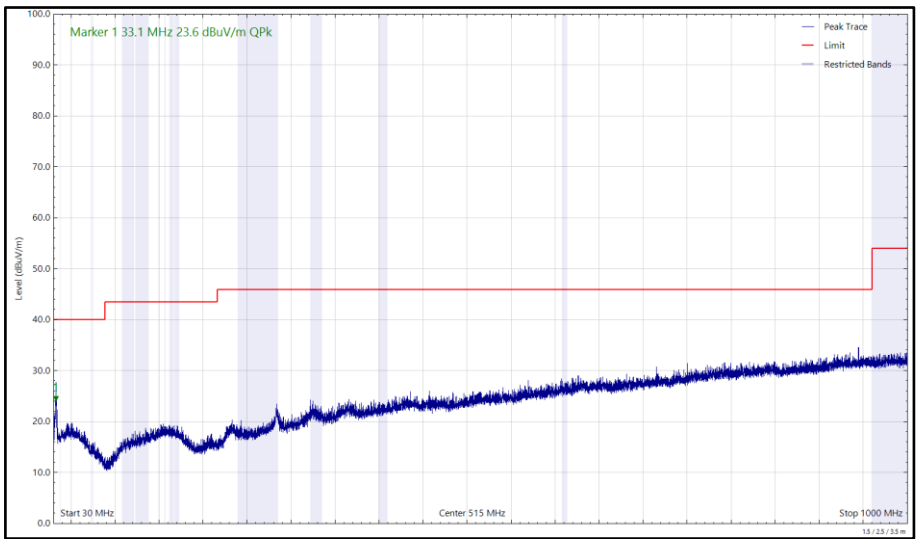


Figure 119 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

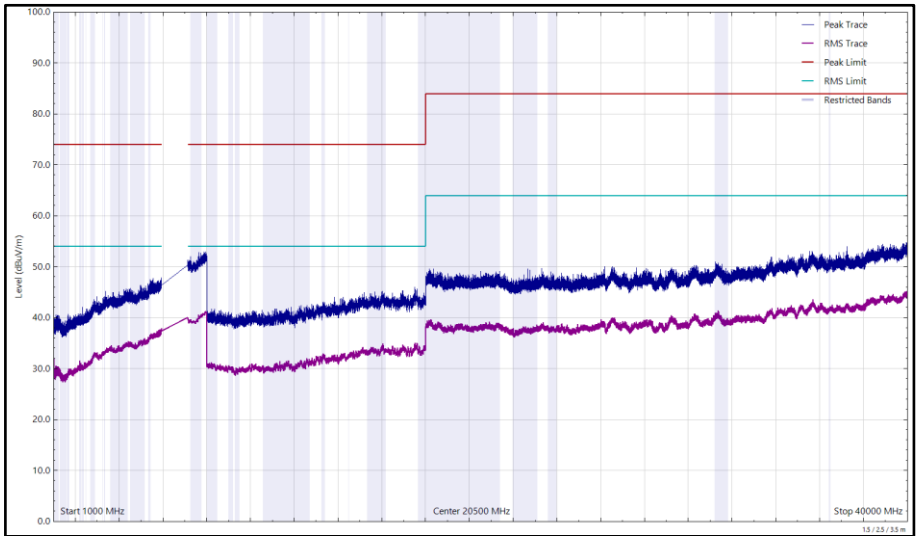


Figure 120 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

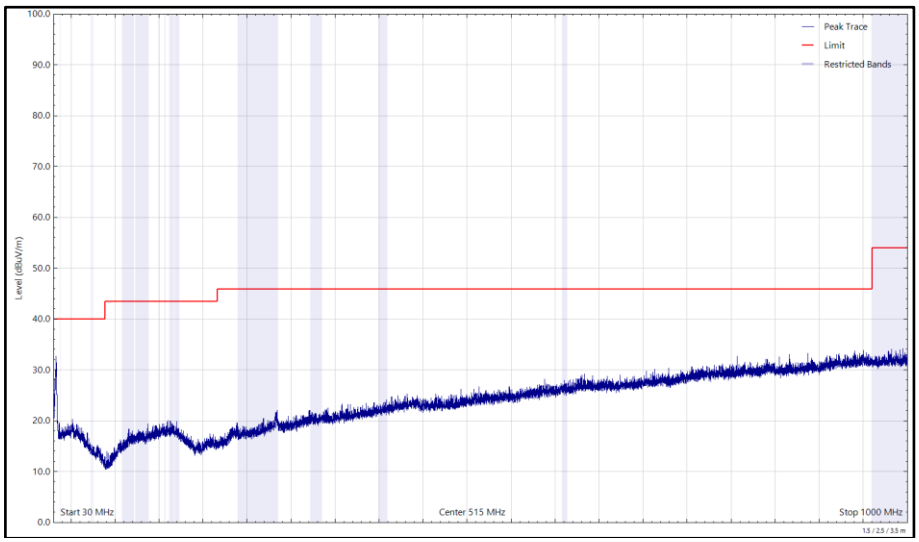


Figure 121 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

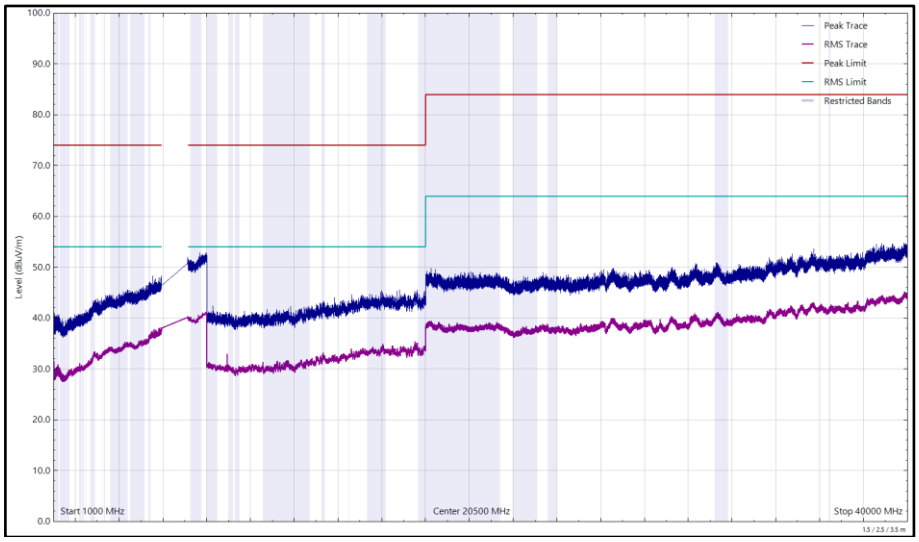


Figure 122 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 370 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

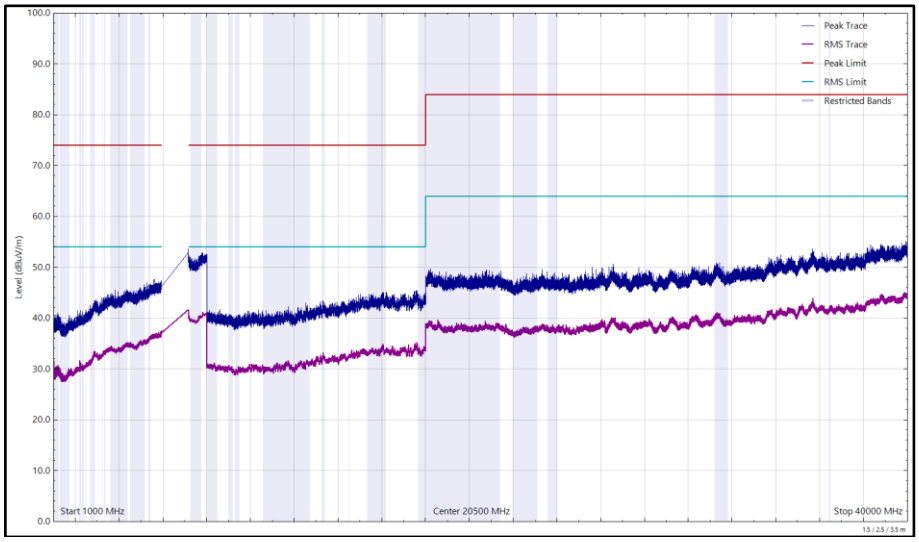


Figure 123 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

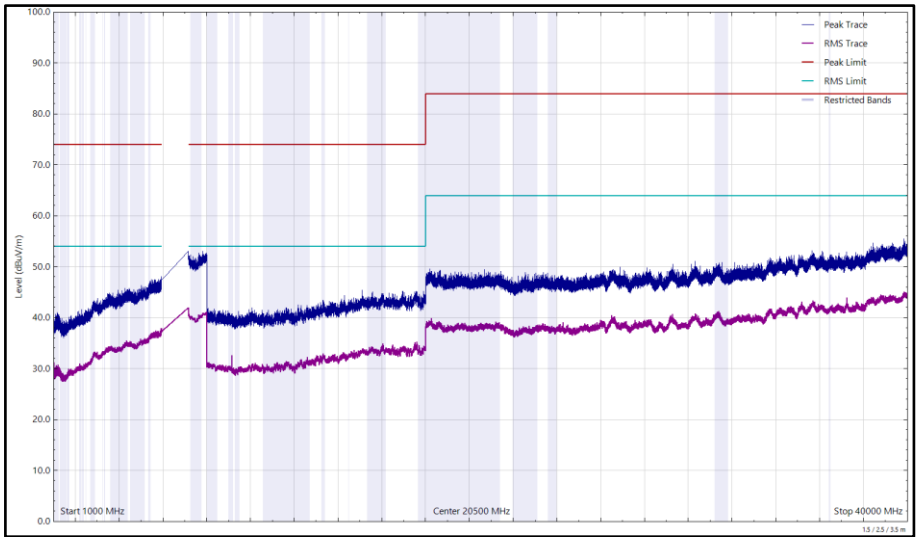


Figure 124 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 371 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

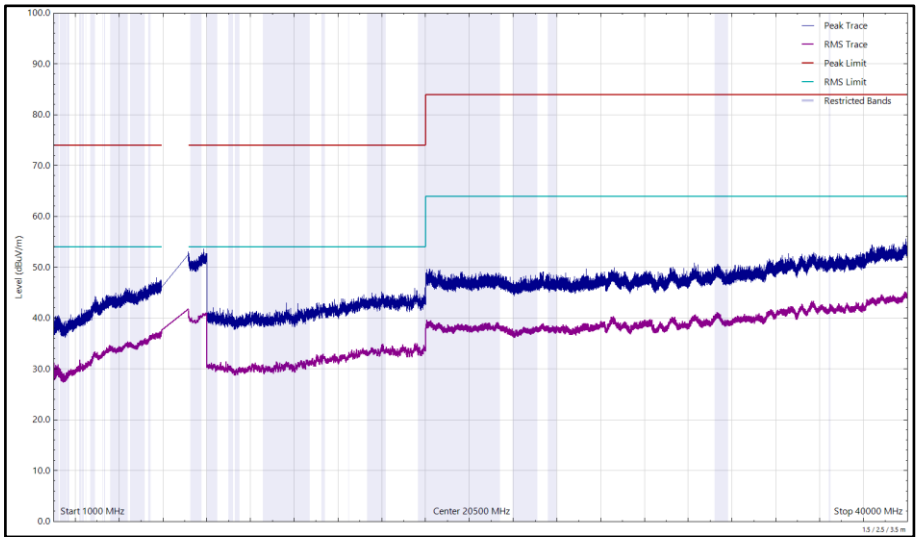


Figure 125 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

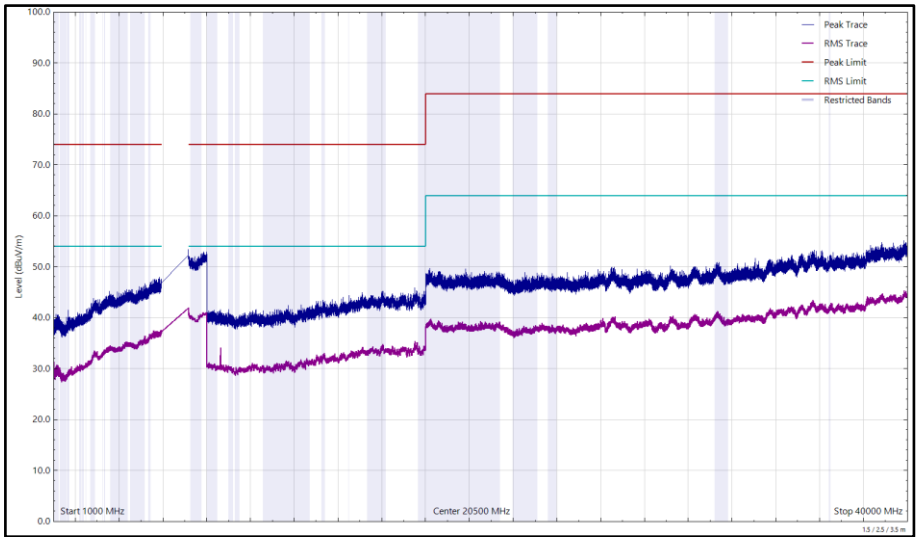


Figure 126 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
32.067	22.15	40.00	-17.85	Q-Peak	324	107	Horizontal
32.929	28.53	40.00	-11.47	Q-Peak	0	124	Vertical
8743.784	41.40	54.00	-12.60	RMS	267	100	Vertical

Table 372 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

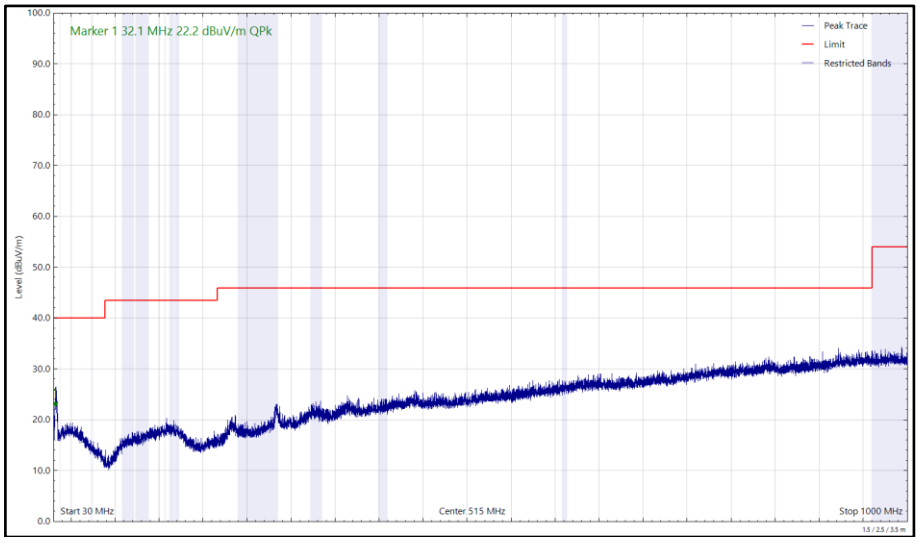


Figure 127 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

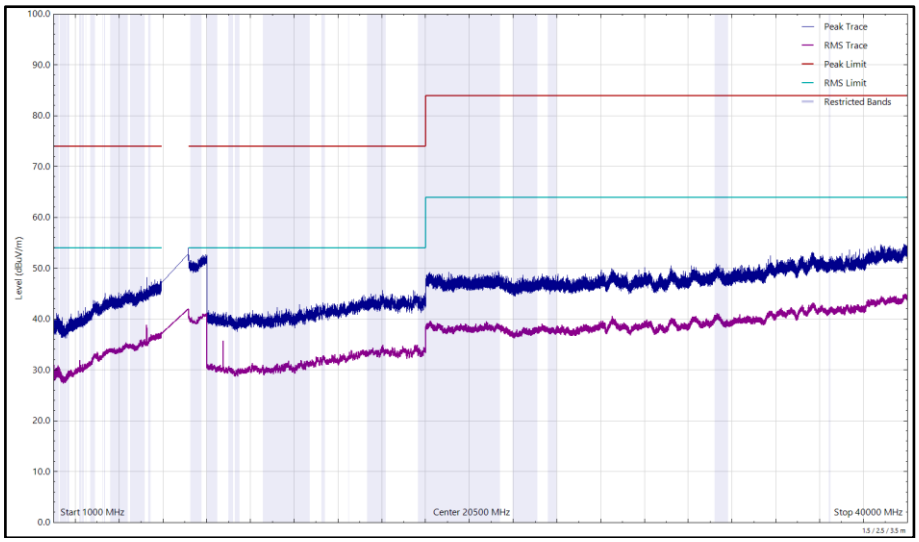


Figure 128 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

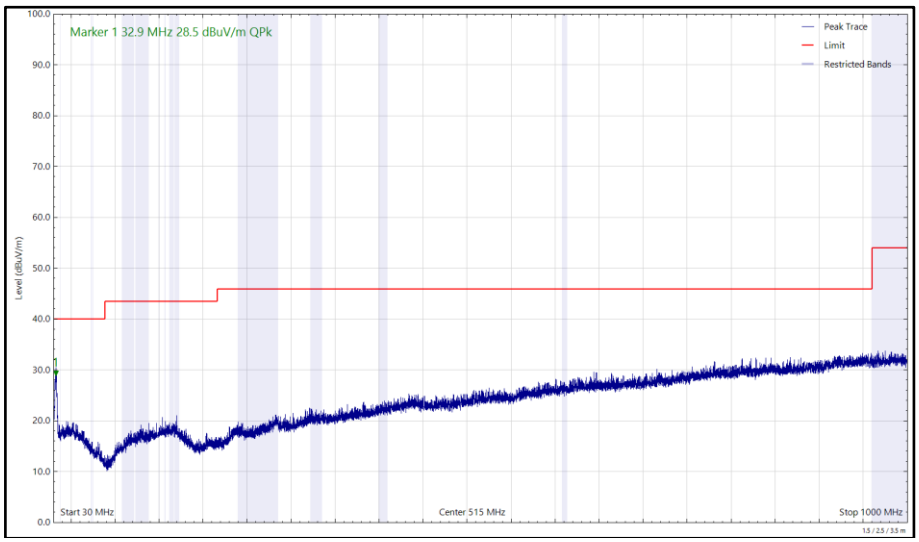


Figure 129 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

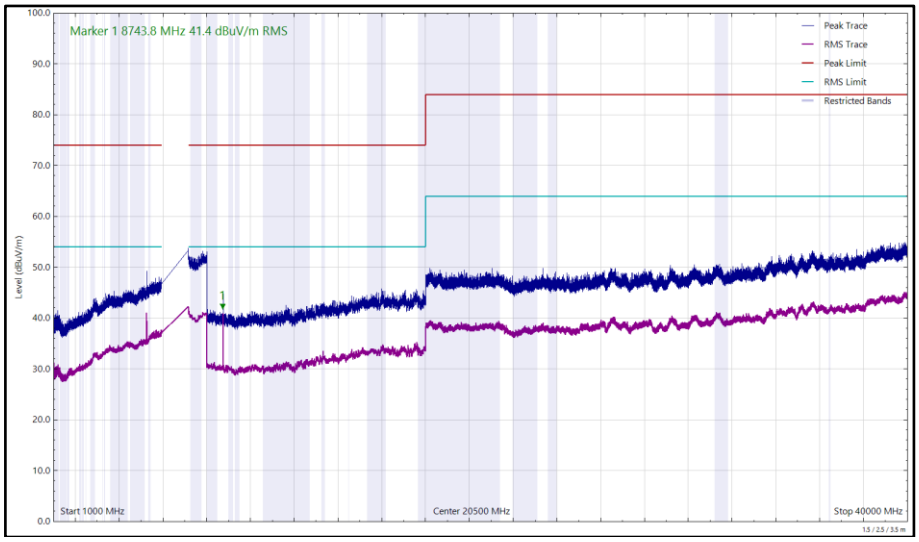


Figure 130 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
*							

Table 373 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

*No emissions found within 10 dB of the limit.

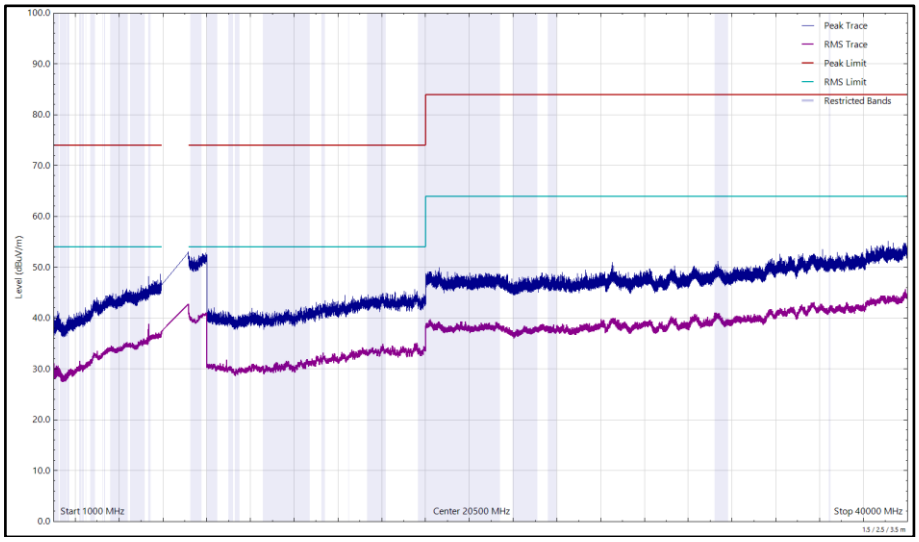


Figure 131 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

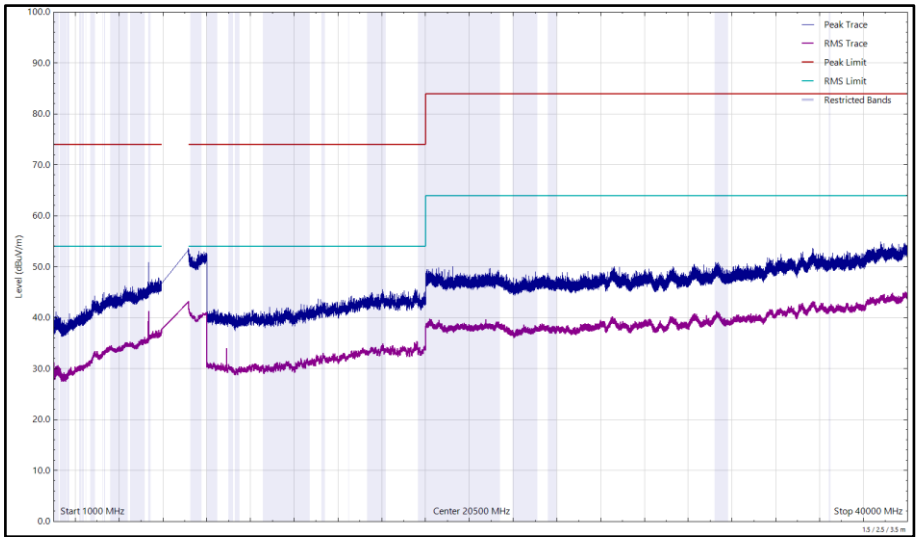


Figure 132 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

FCC 47 CFR Part 15, Limit Clause 15.407(b)(5) and 15.209

Emissions not falling within the restricted bands listed in 15.205:

For transmitters operating within the 5.925–7.125 GHz band: Any emissions outside of the 5.925–7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

Emissions within the restricted bands listed in FCC 47 CFR Part 15.205:

Frequency (MHz)	Field Strength (µV/m)at 3m	Field Strength Limit (dBµV/m) at 3m
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 374 - Radiated Emissions Limit Table (FCC)

ISED RSS-248, Limit Clause 4.7.2(a) and ISED RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Any emissions outside of the 5925-7125 MHz band shall not exceed –27 dBm/MHz e.i.r.p.

Any emissions below 1000 MHz shall meet the general field strength limits specified in RSS-Gen

Emissions falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength (µV/m)at 3m	Field Strength Limit (dBµV/m) at 3m
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 375 - Radiated Emissions Limit Table (ISED)

2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.1.5 V.3.1.5	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	24-Feb-2023
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5937	12	14-May-2023
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	29-May-2023
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5944	24	03-Feb-2024
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	06-Jun-2023
Cable (N to N 1m)	Junkosha	MWX221-01000NMSNMS/B	5999	12	05-Jun-2023
Cable (N to N 7m)	Junkosha	MWX221-07000NMSNMS/B	6005	12	05-Jun-2023
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/A	6006	12	05-Jun-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2023
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	12	07-Jun-2023
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	21-Jun-2023
Digital Multimeter	Fluke	115	6147	12	16-Jun-2023
Humidity & Temperature meter	R.S Components	1364	6150	12	17-Jun-2023
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6188	24	02-Jun-2024
SAC Switch Unit	TUV SUD	SSU003	6191	12	15-Jul-2023
8 GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	15-Jul-2023
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	19-Jul-2023
Attenuator 4dB	Pasternack	PE7074-4	6203	24	16-Jul-2024
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	25-Jul-2023

Table 376

TU - Traceability Unscheduled
O/P Mon – Output Monitored using calibrated equipment

2.7 Contention Based Protocol

2.7.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (d)(6)
ISED RSS-248, Clause, 4.8

2.7.2 Equipment Under Test and Modification State

A2816, S/N: QXG1F2530J - Modification State 0

2.7.3 Date of Test

28-October-2022

2.7.4 Test Method

This test was performed in accordance with KDB 987594 D02, clause I.

The AWGN signal level was initially set at a level much less than the required threshold level (<< -62 dBm) it was verified at this point that transmissions from the device under test (DUT) were present. The signal level was gradually increased until it was observed that the DUT continuously ceased transmissions with the AWGN signal present, i.e. no partial transmissions other than short control signalling transmissions.

The AWGN Signal level recorded is the level in to the DUT's receiver, corrected for all cable losses. The minimum antenna gain value was then used to correct the level as described in KDB 987594 D04.

Timing plots showing verification that transmissions from the DUT responded to the interferer have been included in the test results below.

2.7.5 Test Setup Diagram

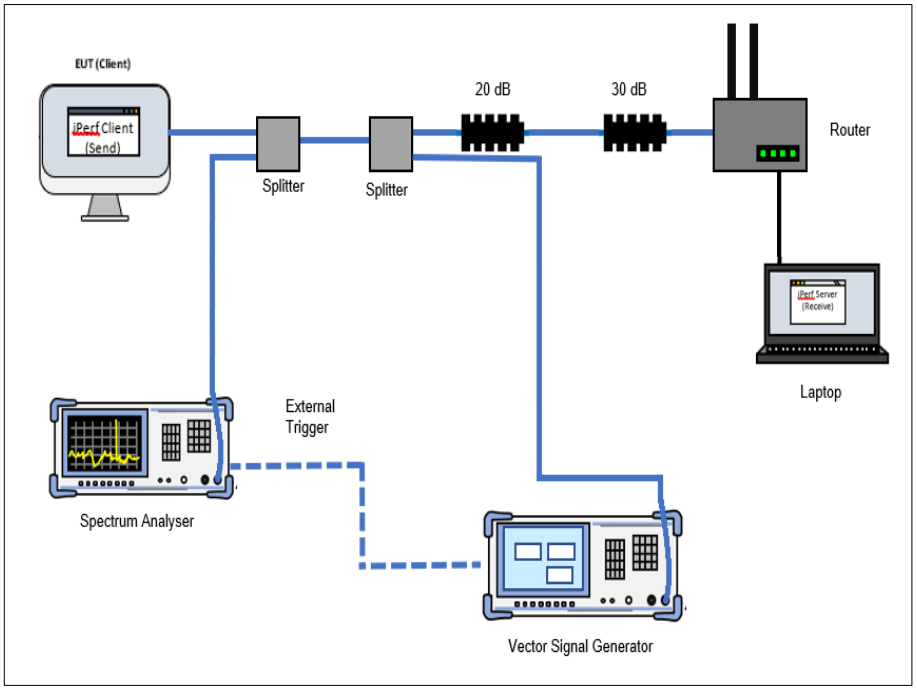


Figure 133 - Test Equipment Setup Diagram

2.7.6 Environmental Conditions

Ambient Temperature	25.9 °C
Relative Humidity	50.1 %

2.7.7 Test Results

6 GHz WLAN

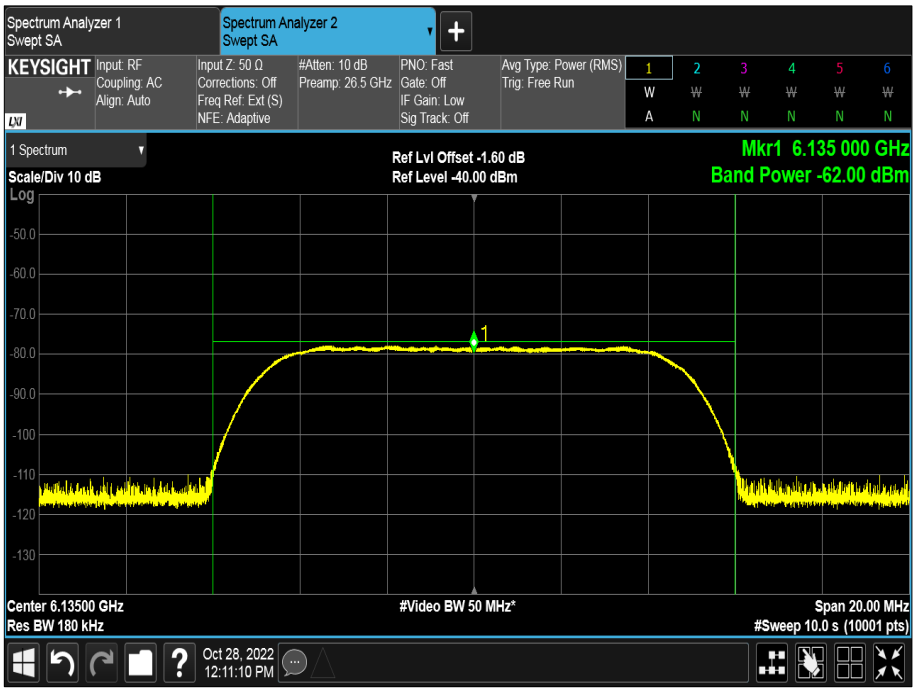


Figure 134 - Example of AWGN Signal

Parameter	Results		
U-NII Band	5	5	5
Channel Number	37	37	37
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6135	6135	6135
AWGN Centre Frequency (MHz)	6135	6135	6135
AWGN Signal Power (dBm)	-76.24	-74.61	-74.31
Minimum Antenna Gain (dBi)	-0.17	-0.17	-0.17
Adjusted Power (dBm)	-76.08	-74.44	-74.14
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 377 - U-NII-5, Minimum Bandwidth

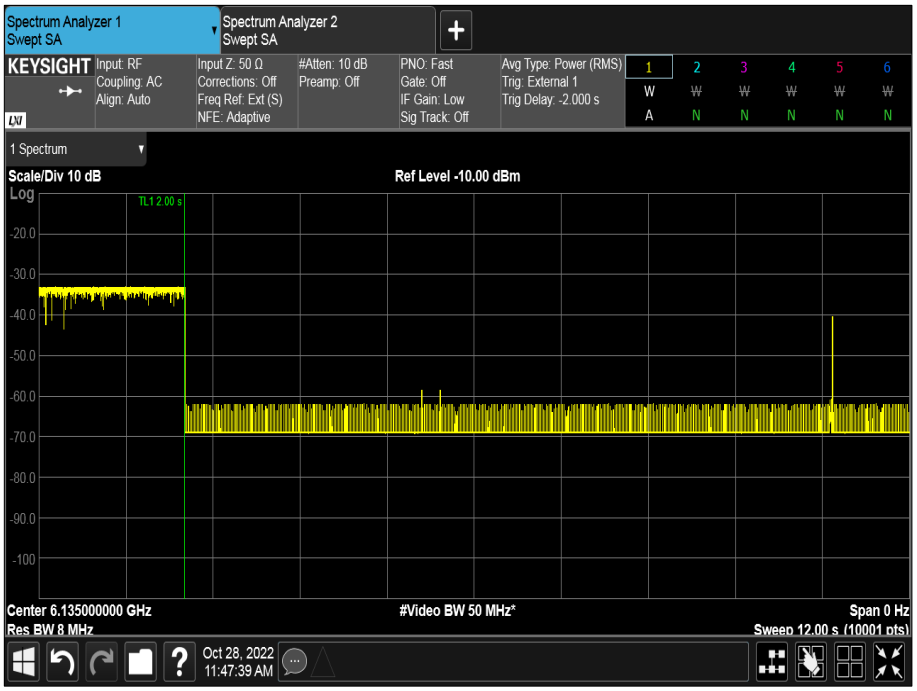


Figure 135 - - U-NII-5, Minimum Bandwidth

Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6110	6110	6110
AWGN Signal Power (dBm)	-74.55	-71.95	-70.89
Minimum Antenna Gain (dBi)	-0.17	-0.17	-0.17
Adjusted Power (dBm)	-74.38	-71.78	-70.72
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 378 - U-NII-5, Maximum Bandwidth (AWGN Low)

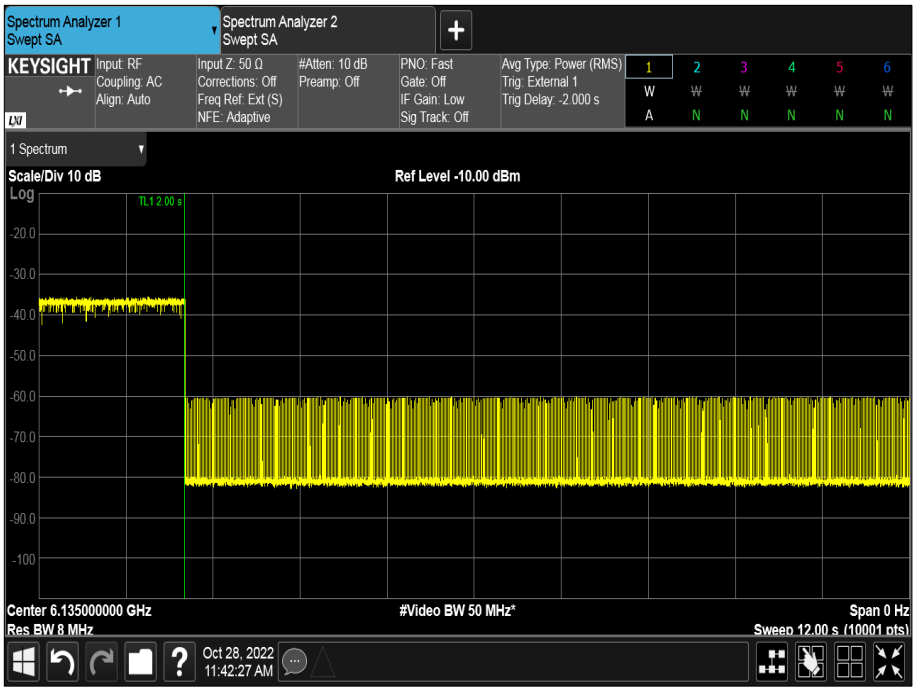


Figure 136 - - U-NII-5, Minimum Bandwidth (AWGN Low)

Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6185	6185	6185
AWGN Signal Power (dBm)	-76.62	-71.38	-73.59
Minimum Antenna Gain (dBi)	-0.17	-0.17	-0.17
Adjusted Power (dBm)	-76.45	-74.21	-73.42
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 379 - U-NII-5, Maximum Bandwidth (AWGN Mid)

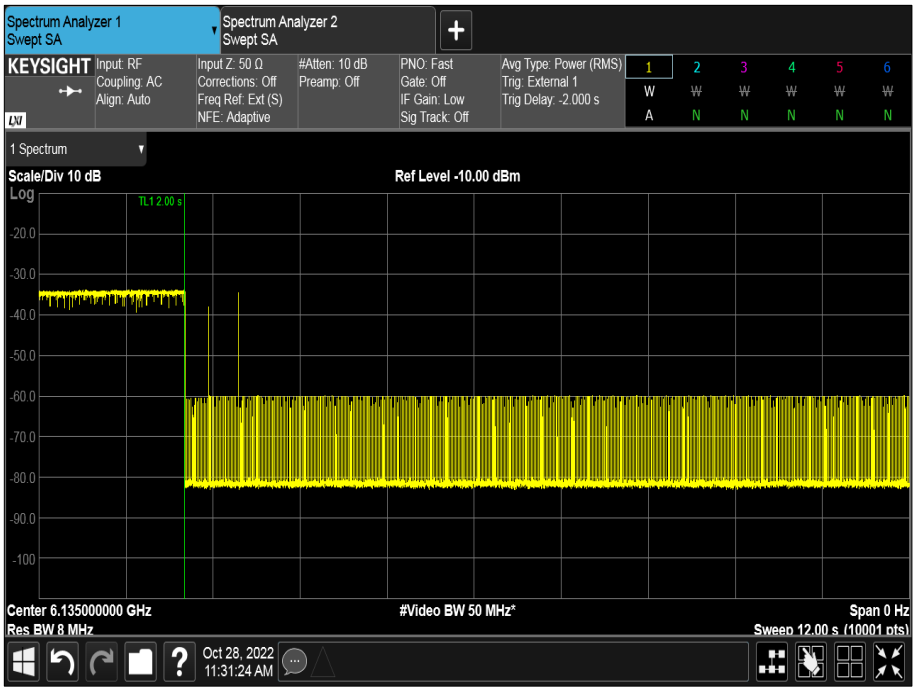


Figure 137 - - U-NII-5, Minimum Bandwidth (AWGN Mid)

Parameter	Results		
U-NII Band	5	5	5
Channel Number	47	47	47
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6185	6185	6185
AWGN Centre Frequency (MHz)	6260	6260	6260
AWGN Signal Power (dBm)	-72.04	-69.60	-69.20
Minimum Antenna Gain (dBi)	-0.17	-0.17	-0.17
Adjusted Power (dBm)	-71.87	-69.43	-69.03
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 380 - U-NII-5, Maximum Bandwidth (AWGN High)

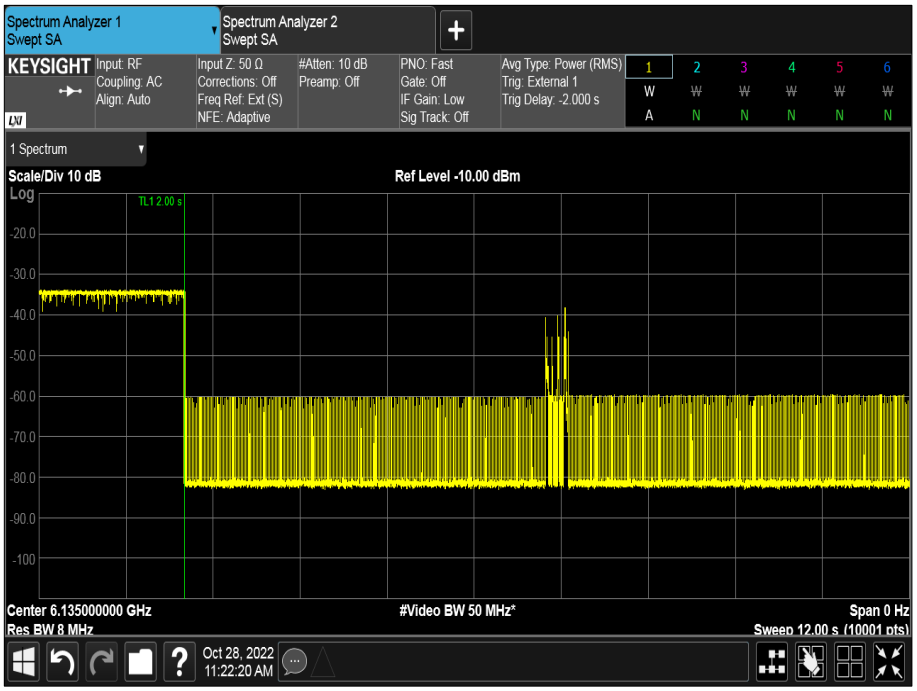


Figure 138 - - U-NII-5, Minimum Bandwidth (AWGN High)

Parameter	Results		
U-NII Band	6	6	6
Channel Number	101	101	101
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6455	6455	6455
AWGN Centre Frequency (MHz)	6455	6455	6455
AWGN Signal Power (dBm)	-74.59	-73.34	-72.74
Minimum Antenna Gain (dBi)	0.74	0.74	0.74
Adjusted Power (dBm)	-75.33	-74.08	-73.48
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 381 - U-NII-6, Minimum Bandwidth

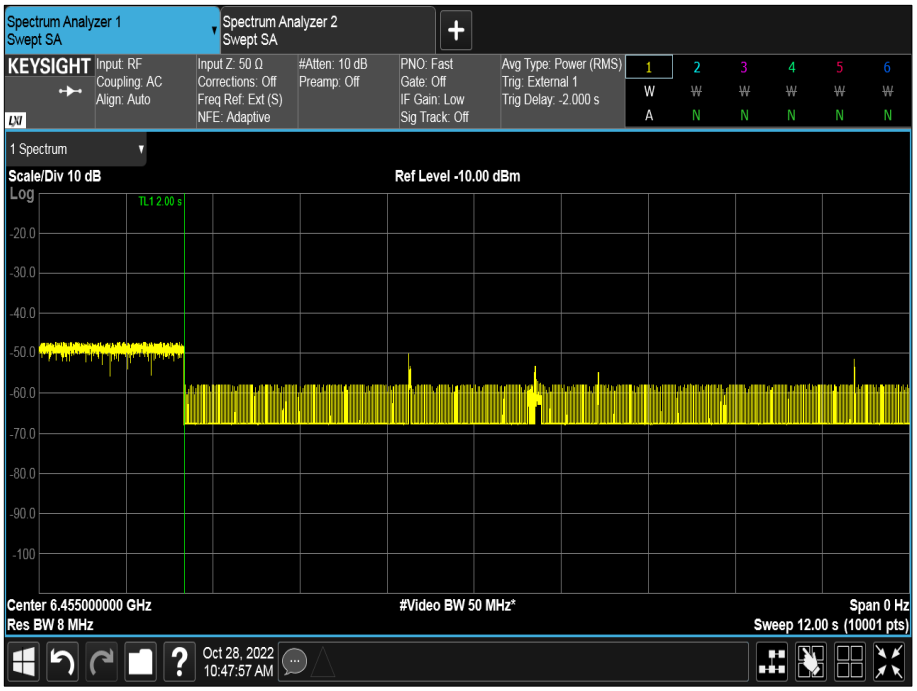


Figure 139 - - U-NII-6, Minimum Bandwidth

Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6430	6430	6430
AWGN Signal Power (dBm)	-74.39	-71.58	-70.69
Minimum Antenna Gain (dBi)	0.74	0.74	0.74
Adjusted Power (dBm)	-75.13	-72.32	-71.43
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 382 - U-NII-6, Maximum Bandwidth (AWGN Low)

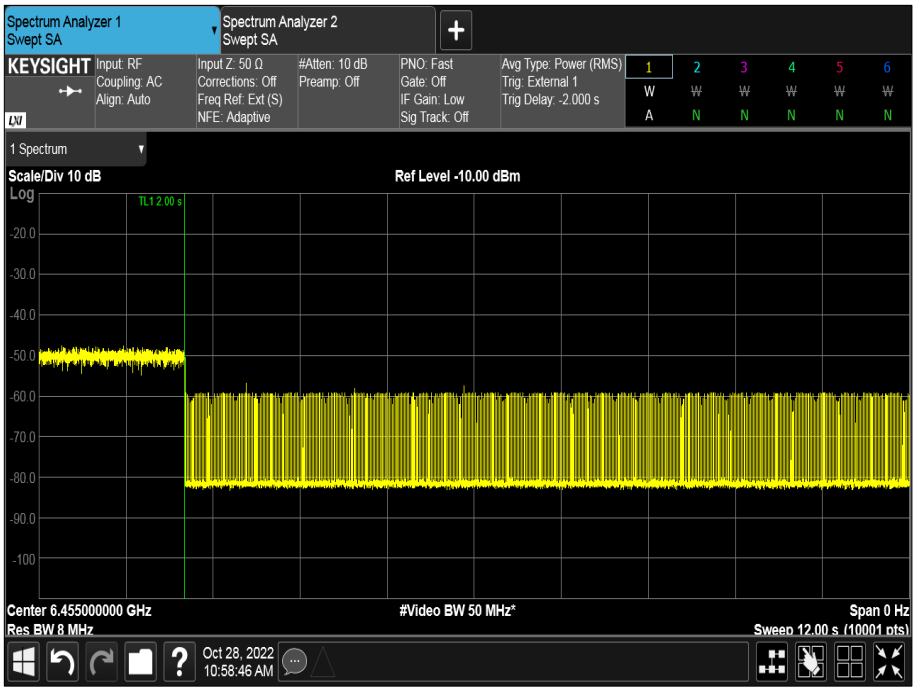


Figure 140 - - U-NII-6, Minimum Bandwidth (AWGN Low)

Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6505	6505	6505
AWGN Signal Power (dBm)	-73.01	-70.80	-69.96
Minimum Antenna Gain (dBi)	0.74	0.74	0.74
Adjusted Power (dBm)	-73.75	-71.54	-70.70
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 383 - U-NII-6, Maximum Bandwidth (AWGN Mid)

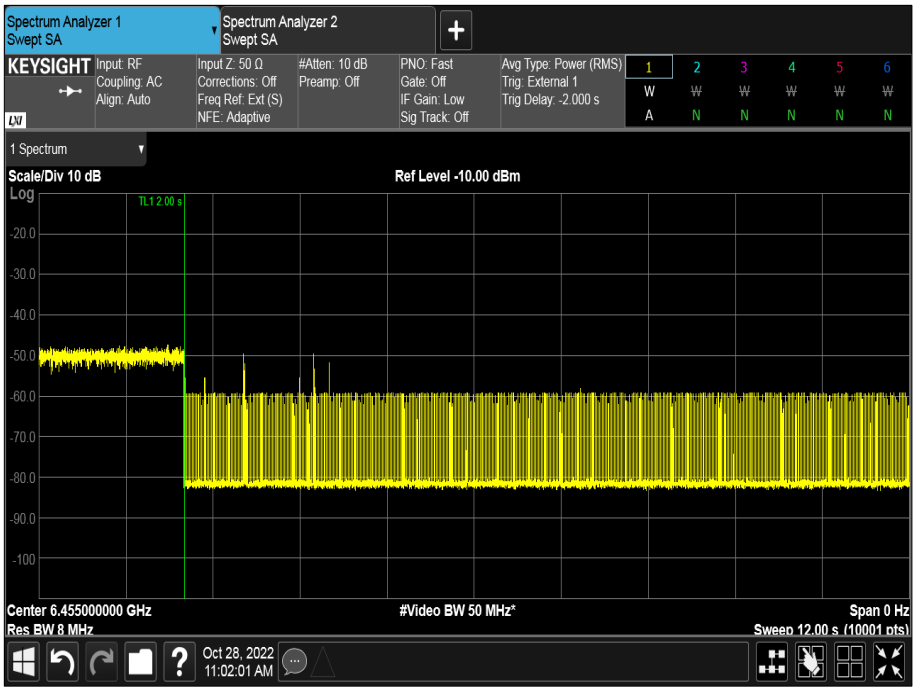


Figure 141 - - U-NII-6, Minimum Bandwidth (AWGN Mid)

Parameter	Results		
U-NII Band	6	6	6
Channel Number	111	111	111
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6505	6505	6505
AWGN Centre Frequency (MHz)	6580	6580	6580
AWGN Signal Power (dBm)	-70.43	-67.61	-66.72
Minimum Antenna Gain (dBi)	0.74	0.74	0.74
Adjusted Power (dBm)	-71.17	-68.35	-67.46
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 384 - U-NII-6, Maximum Bandwidth (AWGN High)

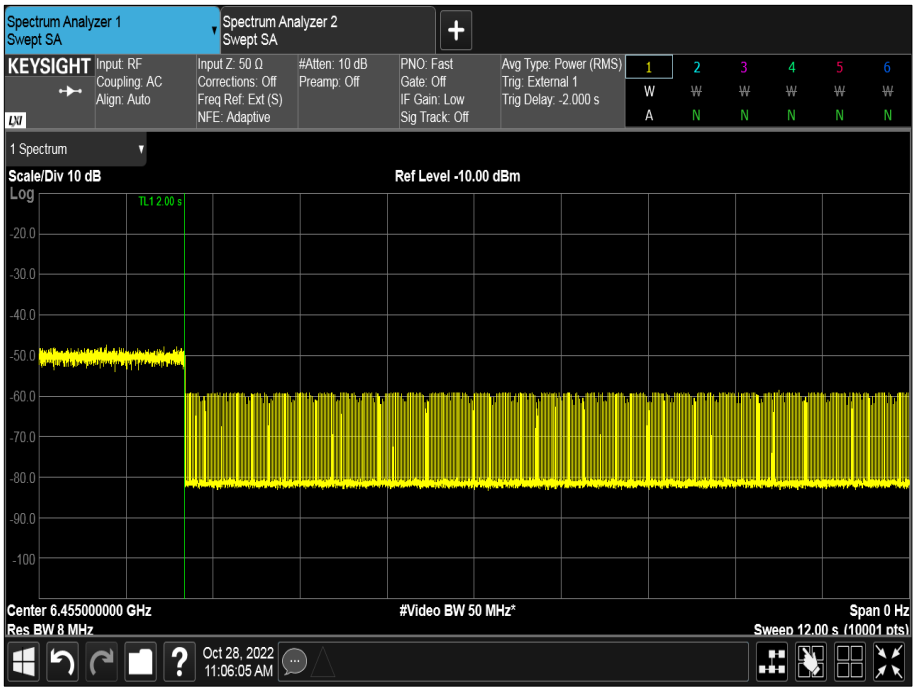


Figure 142 - - U-NII-6, Minimum Bandwidth (AWGN High)

Parameter	Results		
U-NII Band	7	7	7
Channel Number	133	133	133
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6615	6615	6615
AWGN Centre Frequency (MHz)	6615	6615	6615
AWGN Signal Power (dBm)	-73.37	-71.30	-70.50
Minimum Antenna Gain (dBi)	0.00	0.00	0.00
Adjusted Power (dBm)	-73.37	-71.30	-70.50
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 385 - U-NII-7, Minimum Bandwidth

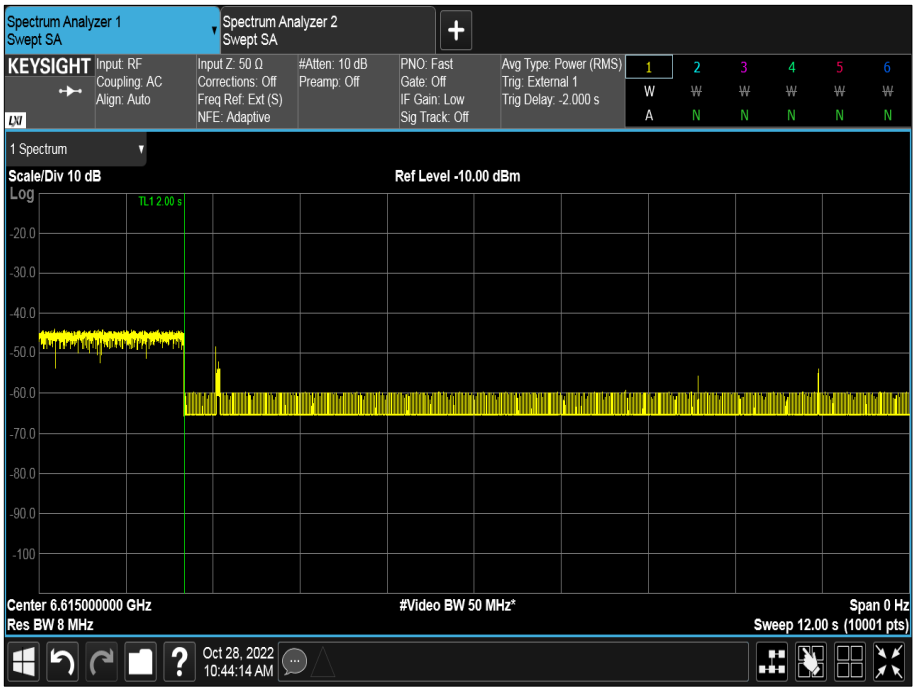


Figure 143 - - U-NII-7, Minimum Bandwidth

Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6590	6590	6590
AWGN Signal Power (dBm)	-71.06	-68.74	-67.55
Minimum Antenna Gain (dBi)	0.00	0.00	0.00
Adjusted Power (dBm)	-71.06	-68.74	-67.55
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 386 - U-NII-7, Maximum Bandwidth (AWGN Low)

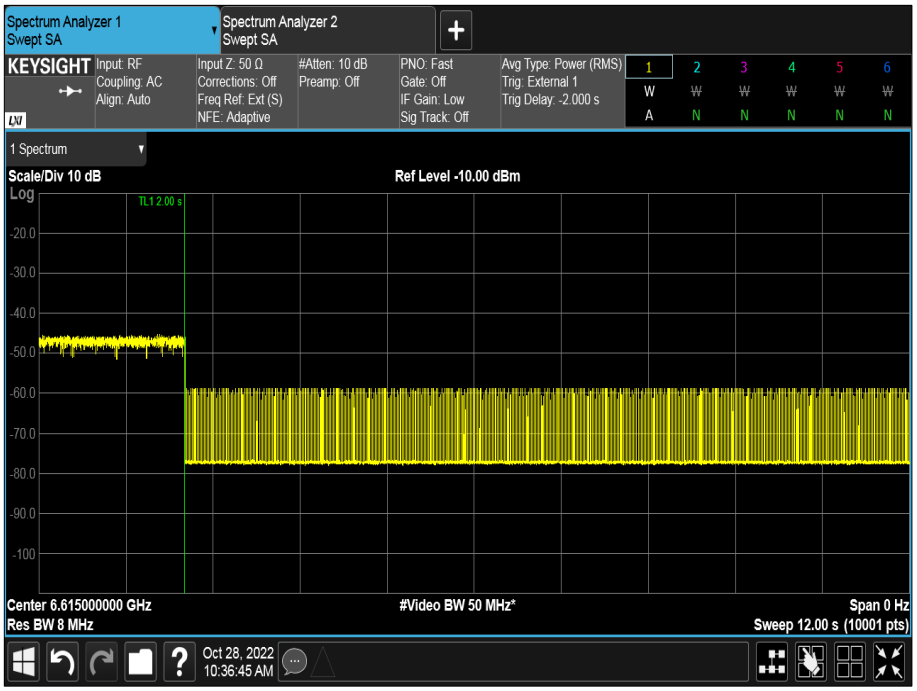


Figure 144 - - U-NII-7, Minimum Bandwidth (AWGN Low)

Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6665	6665	6665
AWGN Signal Power (dBm)	-71.16	-69.24	-68.73
Minimum Antenna Gain (dBi)	0.00	0.00	0.00
Adjusted Power (dBm)	-71.16	-69.24	-68.73
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 387 - U-NII-7, Maximum Bandwidth (AWGN Mid)

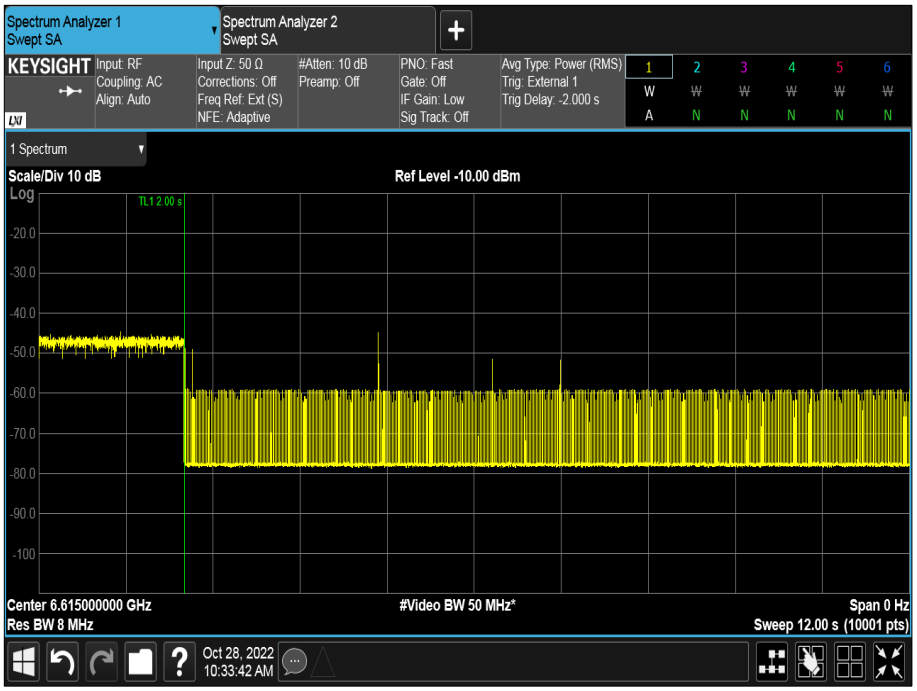


Figure 145 - - U-NII-7, Minimum Bandwidth (AWGN Mid)

Parameter	Results		
U-NII Band	7	7	7
Channel Number	143	143	143
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6665	6665	6665
AWGN Centre Frequency (MHz)	6740	6740	6740
AWGN Signal Power (dBm)	-66.76	-64.19	-63.26
Minimum Antenna Gain (dBi)	0.00	0.00	0.00
Adjusted Power (dBm)	-66.76	-64.19	-63.26
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 388 - U-NII-7, Maximum Bandwidth (AWGN High)

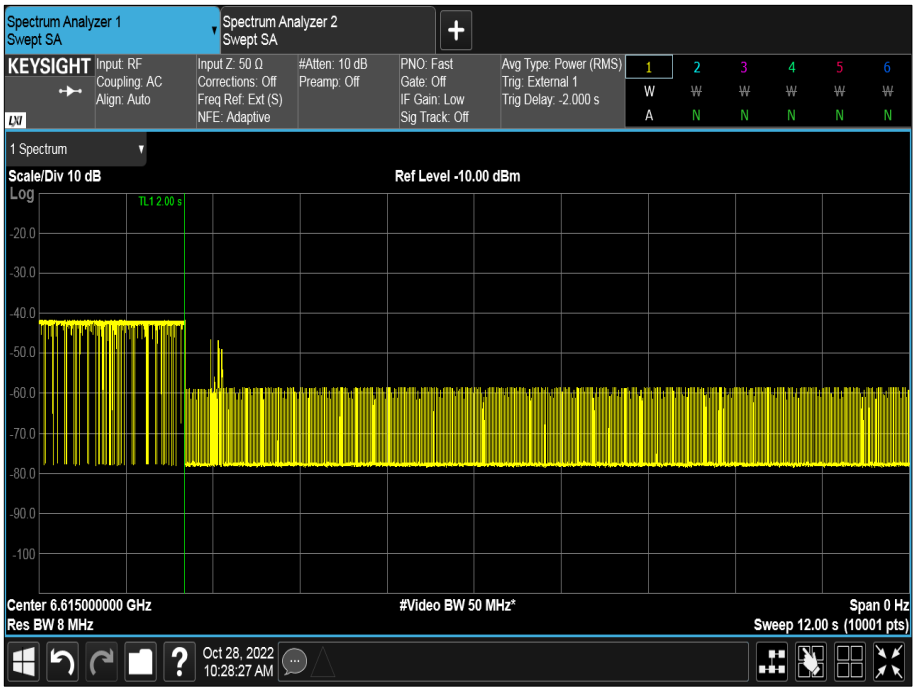


Figure 146 - - U-NII-7, Minimum Bandwidth (AWGN High)

Parameter	Results		
U-NII Band	8	8	8
Channel Number	197	197	197
Bandwidth (MHz)	20	20	20
DUT Centre Frequency (MHz)	6935	6935	6935
AWGN Centre Frequency (MHz)	6935	6935	6935
AWGN Signal Power (dBm)	-77.04	-75.23	-74.53
Minimum Antenna Gain (dBi)	0.09	0.09	0.09
Adjusted Power (dBm)	-77.13	-75.32	-74.62
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 389 - U-NII-8, Minimum Bandwidth

Figure 147 - - U-NII-8, Minimum Bandwidth

Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	6910	6910	6910
AWGN Signal Power (dBm)	-74.47	-71.01	-70.30
Minimum Antenna Gain (dBi)	0.09	0.09	0.09
Adjusted Power (dBm)	-74.56	-71.10	-70.39
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 390 - U-NII-8, Maximum Bandwidth (AWGN Low)

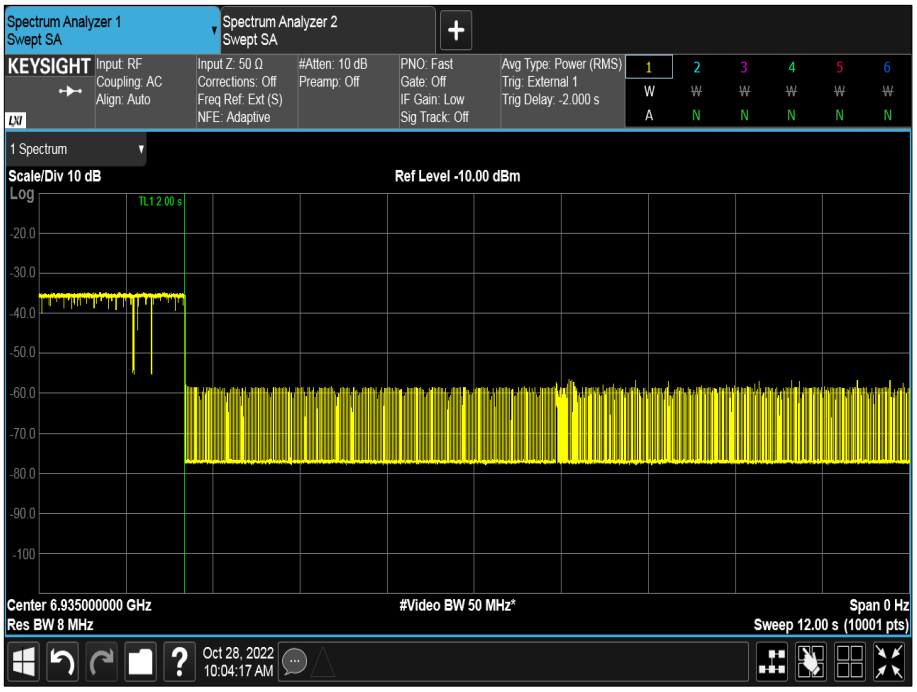


Figure 148 - U-NII-8, Minimum Bandwidth (AWGN Low)

Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	6985	6985	6985
AWGN Signal Power (dBm)	-74.15	-71.80	-71.20
Minimum Antenna Gain (dBi)	0.09	0.09	0.09
Adjusted Power (dBm)	-74.24	-71.89	-71.29
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 391 - U-NII-8, Maximum Bandwidth (AWGN Mid)

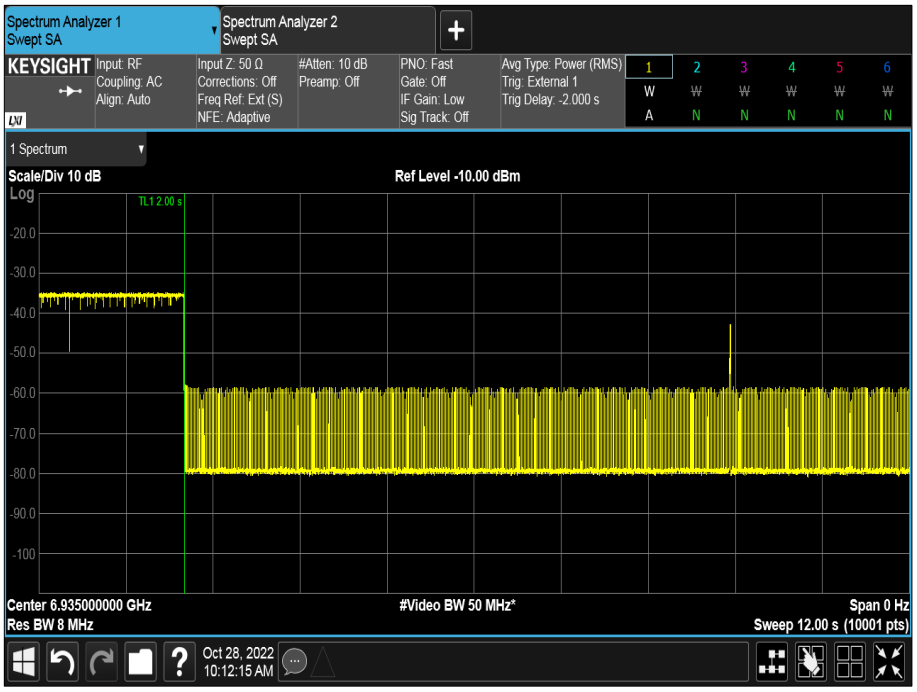


Figure 149 - U-NII-8, Minimum Bandwidth (AWGN Mid)

Parameter	Results		
U-NII Band	8	8	8
Channel Number	207	207	207
Bandwidth (MHz)	160	160	160
DUT Centre Frequency (MHz)	6985	6985	6985
AWGN Centre Frequency (MHz)	7060	7060	7060
AWGN Signal Power (dBm)	-71.09	-67.47	-66.87
Minimum Antenna Gain (dBi)	0.09	0.09	0.09
Adjusted Power (dBm)	-71.18	-67.56	-66.96
Detection Limit (dBm)	-62.0	-62.0	-62.0
EUT Tx Status (OFF/Minimal/ON)	ON	Minimal	OFF

Table 392 - U-NII-8, Maximum Bandwidth (AWGN High)

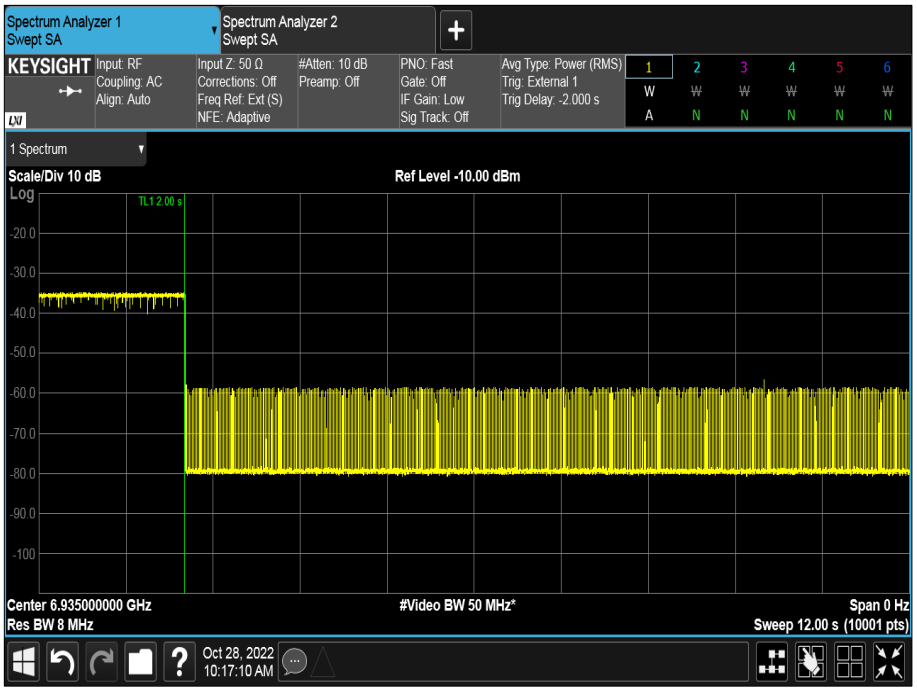


Figure 150 - U-NII-8, Minimum Bandwidth (AWGN High)

FCC 47 CFR Part 15.407 (d)(6)

Indoor access points, subordinate devices and client devices operating in the 5.925–7.125 GHz band must employ a contention-based protocol.

KDB 987594, Limit Clause I

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

ISED RSS-248, Limit Clause 4.8.2

The RLAN devices shall utilize a contention-based protocol to detect the presence of any emissions on the channel that the RLAN device intends to occupy. The RLAN device must detect within its entire occupied bandwidth a radio frequency power of –62 dBm or lower. The minimum detection threshold power is the received power averaged over a 1microsecond reference to a 0 dBi antenna.

If an emission is detected, the RLAN device shall vacate the occupied channel and shall not transmit on this channel until the detected radio frequency power is equal to or greater than the -62 dBm threshold.

2.7.8 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 3.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Hygromer	Rotronic	A1	2138	12	28-Sep-2023
Frequency Standard	Spectracom	SecureSync 1200-0408-0601	4393	6	01-Feb-2023
EXA	Keysight Technologies	N9010B	4969	24	07-Feb-2024
Cable (40 GHz)	Rosenberger	LU1-001-2000	5020	12	27-Jan-2023
Cable 2.92m	Junkosha	MWX241-01000KMS	5412	12	24-Jul-2023
2.92mm 1m cable	Junkosha	MWX211/B	5415	12	24-Jul-2023
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5419	12	24-Jul-2023
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	5498	12	16-May-2023
Attenuator 5W 30dB DC-18GHz	Aaren	AT40A-4041-D18-30	5504	12	21-Apr-2023
2-Way Power Divider (2-8 GHz)	Aaren	AT30A-TE0208-2-AF	5685	12	20-Dec-2022
2-Way Power Divider (2-8 GHz)	Aaren	AT30A-TE0208-2-AF	5687	12	20-Dec-2022
Vector Signal Generator	Rohde & Schwarz	SMM100A	5915	36	18-Feb-2025
WiFi 6E Tri-Band Gaming Router	Asus	GT-AXE110000	5926	-	TU

Table 393

TU - Traceability Unscheduled

3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Emission Bandwidth	± 3.914 MHz
Maximum Conducted Output Power	± 1.38 dB
Maximum Conducted Power Spectral Density	± 1.49 dB
Authorised Band Edges	± 6.3 dB
Unwanted Emissions within the 5925-7125 MHz band	± 3.45 dB
Spurious Radiated Emissions	30 MHz to 1 GHz ± 5.2 dB 1 GHz to 40 GHz ± 6.3 dB
Contention Based Protocol	Time: 0.30% Interfer BW: 267.98 kHz Interferer Level: 0.80 dB

Table 394

Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.