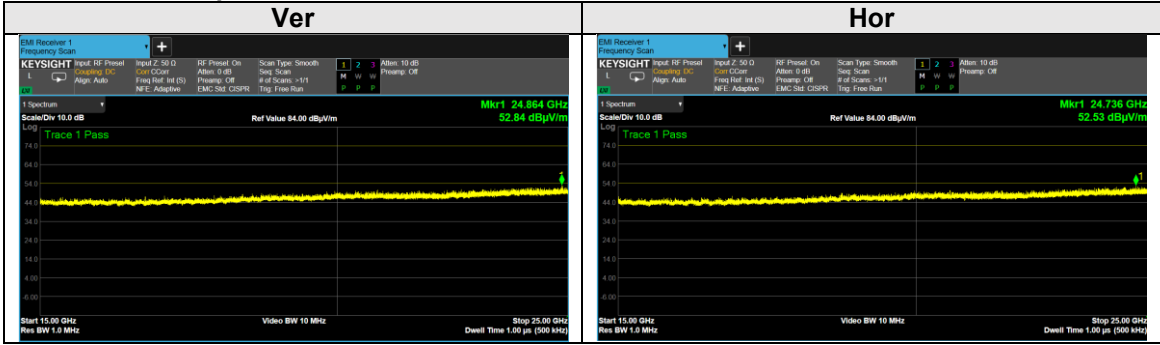


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Spurious Emission Plot 15GHz – 25GHz 802.11N Channel 11.



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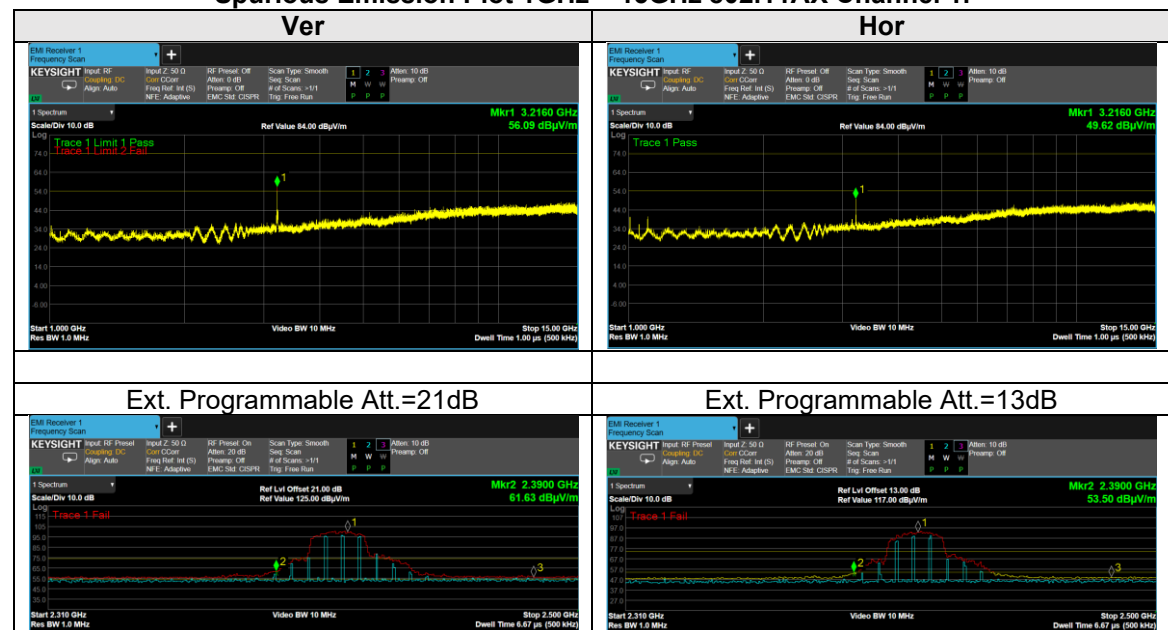
5.3.12.Freq. Range above 1GHz (802.11ax) Channel 1.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2310	V	1.5	22	56.264	PK	74	-17.736	Pass
				41.391	AV	54	-12.609	Pass
2390	V	1.5	22	62.005	PK	74	-11.995	Pass
				44.252	AV	54	-9.748	Pass
3216*	V	1.5	22	56.090	PK	101	-44.910	Pass
4824	V	1.6	-170	44.286	PK	74	-29.714	Pass
				25.763	AV	54	-28.237	Pass
2310	H	1.5	22	49.268	PK	74	-24.732	Pass
				34.395	AV	54	-19.605	Pass
2390	H	1.5	22	54.244	PK	74	-19.756	Pass
				36.203	AV	54	-17.797	Pass
3216*	H	1.5	22	49.620	PK	101	-51.380	Pass
4824	H	2.2	-160	44.512	PK	74	-29.488	Pass
				25.989	AV	54	-28.011	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11AX Channel 1.



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Spurious Emission Plot 15GHz – 25GHz 802.11AX Channel 1.



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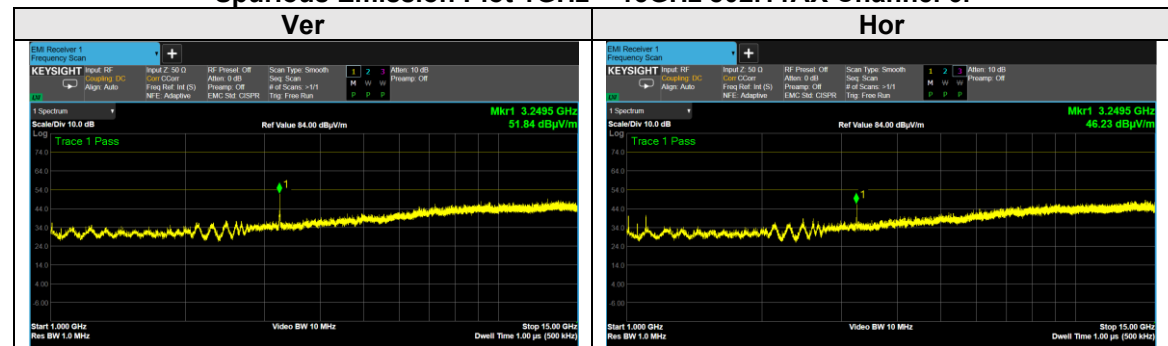
5.3.13.Freq. Range above 1GHz (802.11ax) Channel 6.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
3249.5	V	1.5	22	51.840	PK	101	-49.160	Pass
4874	V	1.6	-170	43.158	PK	74	-30.842	Pass
				24.635	AV	54	-29.365	Pass
3249.4	H	1.5	22	46.230	PK	101	-54.77	Pass
4874	H	2.2	-160	43.059	PK	74	-30.941	Pass
				24.536	AV	54	-29.464	Pass

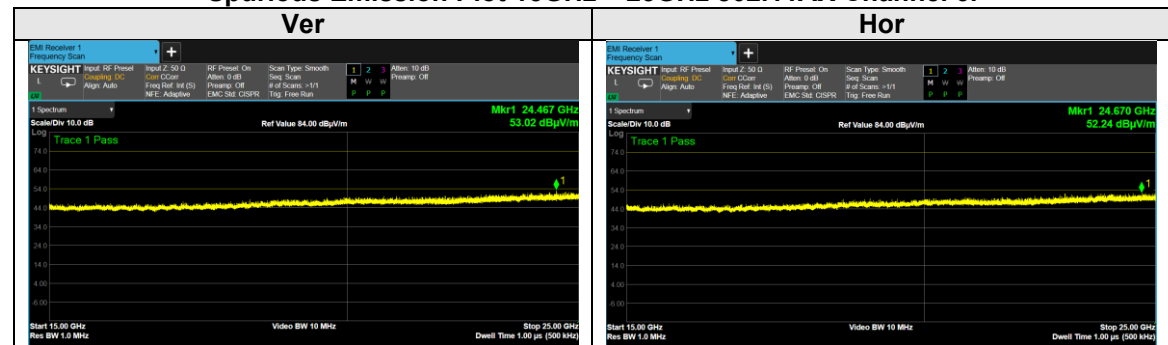
Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11AX Channel 6.



Spurious Emission Plot 15GHz – 25GHz 802.11AX Channel 6.



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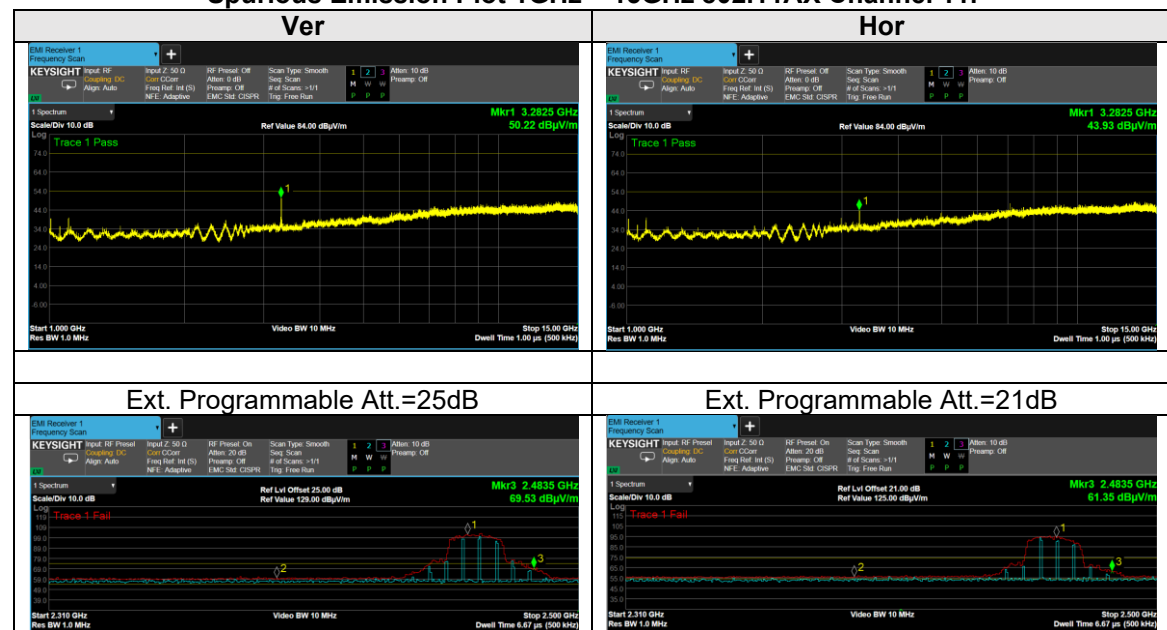
5.3.14.Freq. Range above 1GHz (802.11ax) Channel 11.

Freq. (MHz)	Pol. (V/H)	Ant. Height (m.)	Table Angle (deg.)	Emission Level (dBuV/m)	Detector	LIMIT (dBuV/m)	Margin (dB)	Verdict
2483.5	V	1.5	22	70.877	PK	74	-3.123	Pass
				48.863	AV	54	-5.137	Pass
2500	V	1.5	22	61.238	PK	74	-12.762	Pass
				46.365	AV	54	-7.635	Pass
3282.7*	V	1.5	22	50.220	PK	101	-50.780	Pass
4924	V	1.6	-180	44.052	PK	74	-29.948	Pass
				25.529	AV	54	-28.471	Pass
2483.5	H	1.5	22	63.158	PK	74	-10.842	Pass
				44.399	AV	54	-9.601	Pass
2500	H	1.5	22	57.431	PK	74	-16.569	Pass
				42.558	AV	54	-11.442	Pass
3282.6*	H	1.5	22	43.930	PK	101	-57.070	Pass
4924	H	2.2	-160	44.566	PK	74	-29.434	Pass
				26.043	AV	54	-27.957	Pass

Note:

1. Emission Level_[dBuV/m] = Scan emission level_[dBuV] + Antenna Factor_[dB/m] + Cable loss_[dB] - LNA Factor_[dB].
2. Margin value = Emission Level-Limit value
3. “*” – Spurious emission, not in restricted band. Limit = 20 dBc.

Spurious Emission Plot 1GHz – 15GHz 802.11AX Channel 11.



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Spurious Emission Plot 15GHz – 25GHz 802.11AX Channel 11.



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6. 6dB bandwidth & Occupied bandwidth

Test Date:	31-Aug-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.247(A)(2) RSS-GEN § 6.7 RSS-247 § 5.2(A)	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1-2023 RSS-247 Issue 3 RSS-Gen Issue 5	Photograph:	Annex II

6.1. Test Requirement:

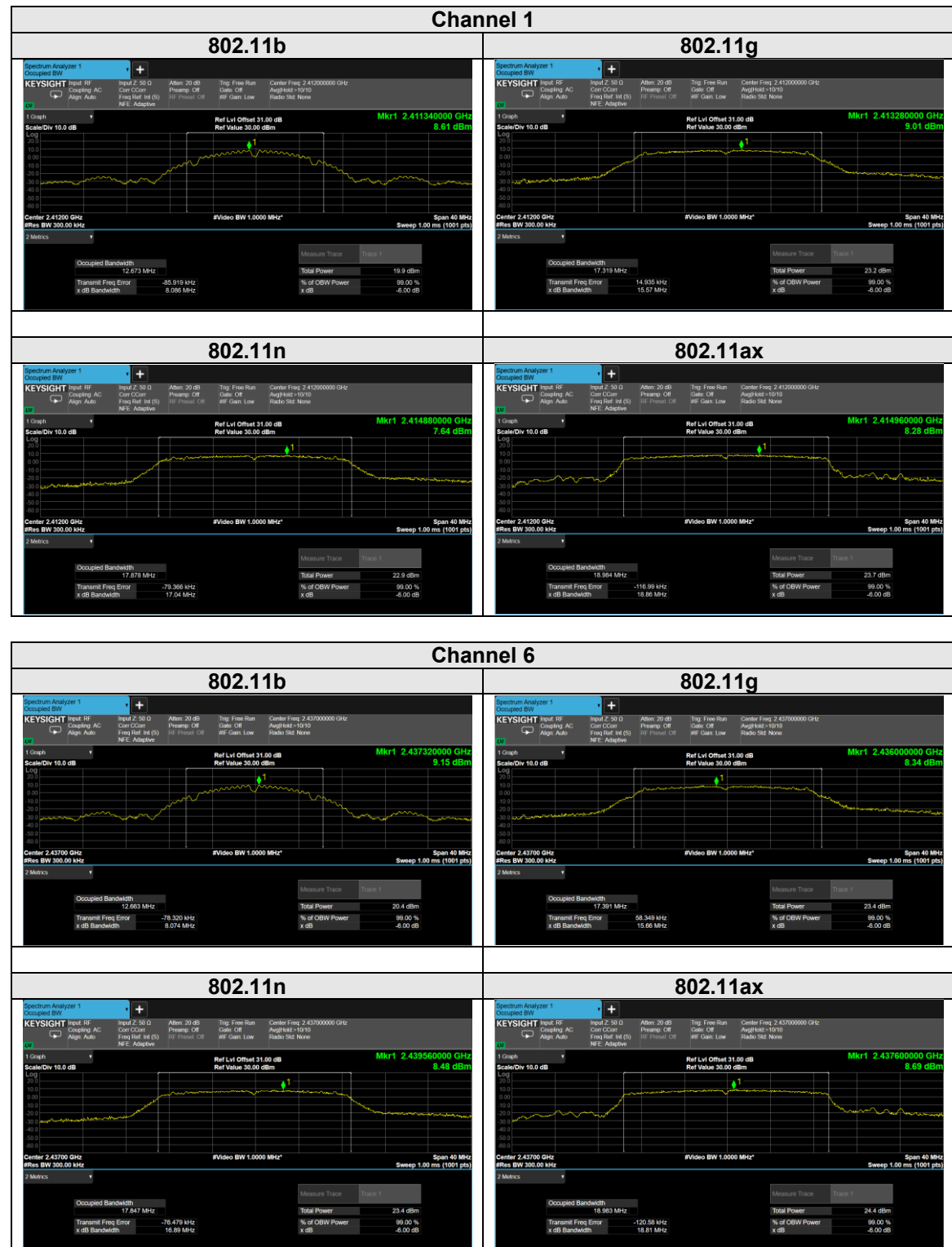
Normal test conditions	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725–5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz
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6.2. Test Result:

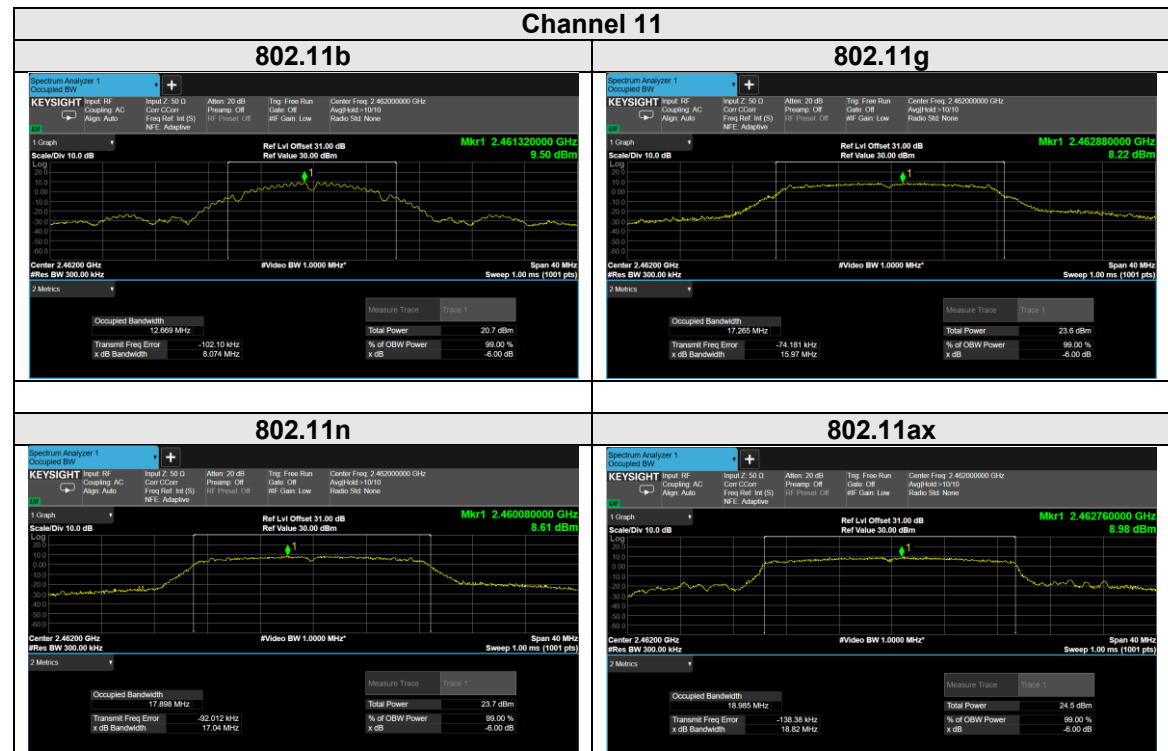
Protocol	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Verdict
802.11 (b)	1	2412	12.673	8.086	>0.5	Pass
	6	2437	12.663	8.074	>0.5	Pass
	11	2462	12.669	8.074	>0.5	Pass
802.11 (g)	1	2412	17.319	15.570	>0.5	Pass
	6	2437	17.391	15.660	>0.5	Pass
	11	2462	17.265	15.970	>0.5	Pass
802.11 (n)	1	2412	17.878	17.040	>0.5	Pass
	6	2437	17.847	16.890	>0.5	Pass
	11	2462	17.898	17.040	>0.5	Pass
802.11 (ax)	1	2412	18.984	18.860	>0.5	Pass
	6	2437	18.983	18.810	>0.5	Pass
	11	2462	18.985	18.820	>0.5	Pass

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6.1. Measurement Plots



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7. Power Spectral Density

Test Date:	12-May-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.247(E) RSS-247 §5.2(B)	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1- 2023 RSS-247 Issue 3	Photograph:	Annex II

7.1. Test Requirement:

Normal test conditions	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
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7.2. Limits of Power Spectral Density Measurement.

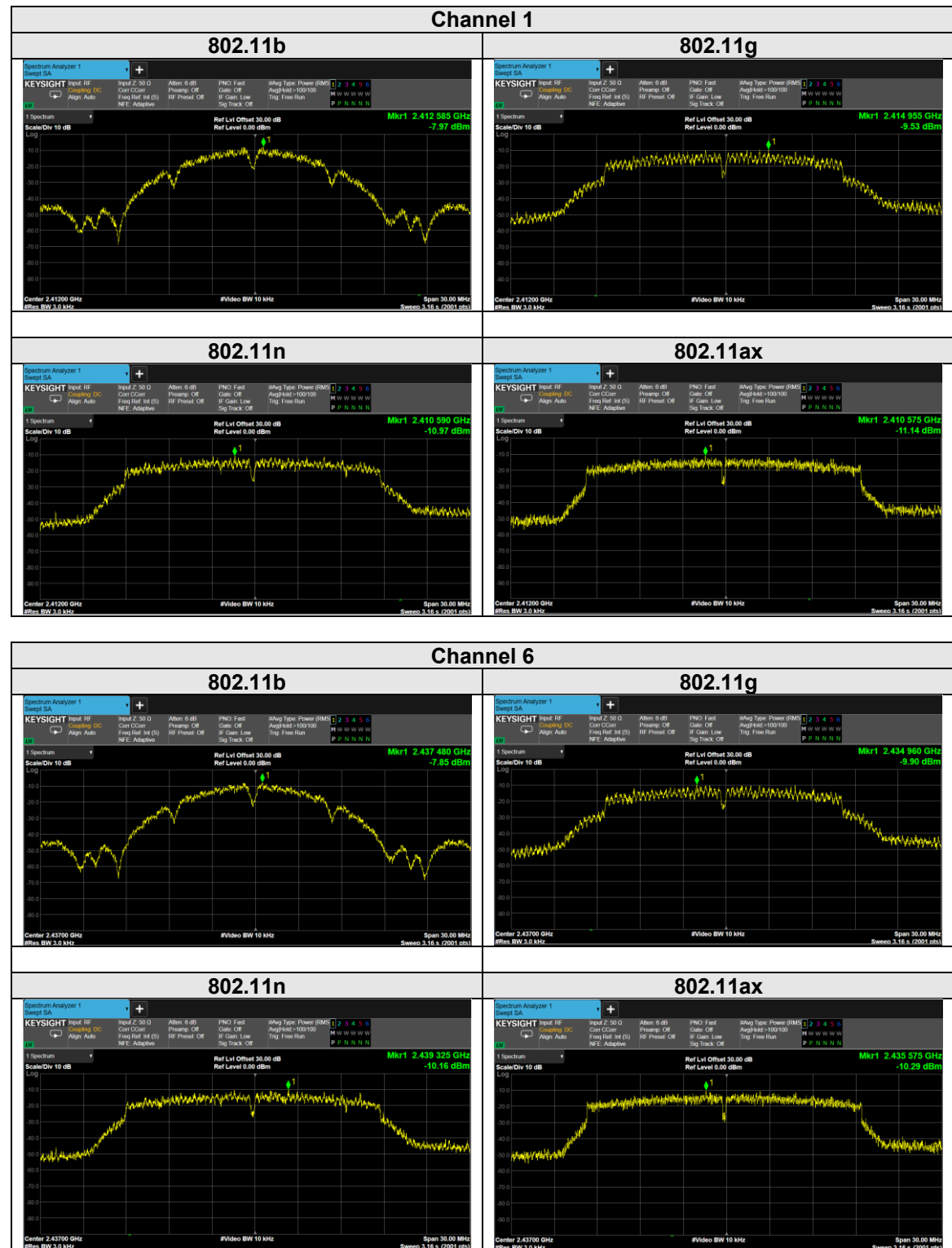
The Maximum Power Spectral Density Measurement is 8(dBm/3kHz)

7.3. Test Result:

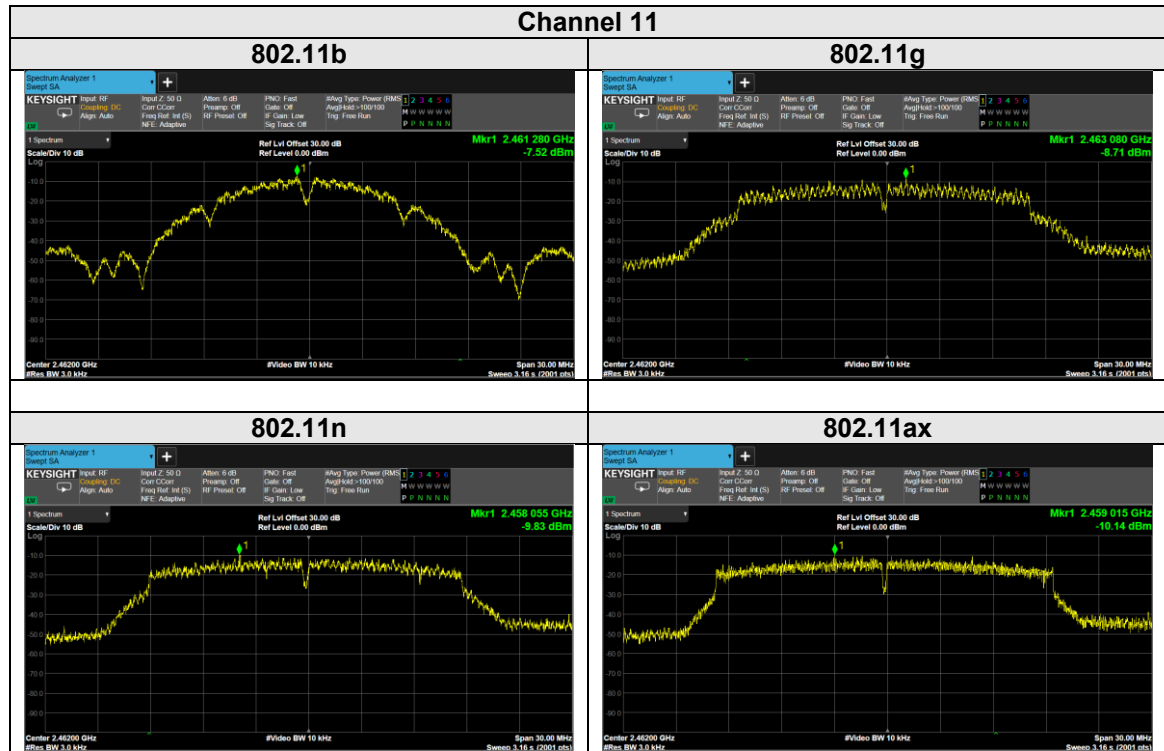
Protocol	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11 (b)	1	2412	-7.97	8	Pass
	6	2437	-7.85	8	Pass
	11	2462	-7.52	8	Pass
802.11 (g)	1	2412	-9.53	8	Pass
	6	2437	-9.90	8	Pass
	11	2462	-8.71	8	Pass
802.11 (n)	1	2412	-10.97	8	Pass
	6	2437	-10.16	8	Pass
	11	2462	-9.83	8	Pass
802.11 (ax)	1	2412	-11.14	8	Pass
	6	2437	-10.29	8	Pass
	11	2462	-10.14	8	Pass

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7.1. PSD Measurement Plots



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8. Maximum Conducted Output Power.

Test Date:	13-May-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.247(B)(3) RSS-247 §5.4(D)	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1-2023 RSS-247 Issue 3	Photograph:	Annex II

8.1. Test Requirement:

Normal test conditions	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one-Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmitted power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitted at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
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8.2. Test Result:

Protocol	Channel	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Max EIRP (dBm)	Limit (dBm)	Verdict
802.11 (b)	1	2412	18.67	30	21.67	36	Pass
	6	2437	19.07	30	22.07	36	Pass
	11	2462	19.17	30	22.17	36	Pass
802.11 (g)	1	2412	20.90	30	23.90	36	Pass
	6	2437	21.23	30	24.23	36	Pass
	11	2462	21.84	30	24.84	36	Pass
802.11 (n)	1	2412	21.79	30	24.79	36	Pass
	6	2437	22.02	30	25.02	36	Pass
	11	2462	22.18	30	25.18	36	Pass
802.11 (ax)	1	2412	21.85	30	24.85	36	Pass
	6	2437	22.17	30	25.17	36	Pass
	11	2462	22.35	30	25.35	36	Pass

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9. Conducted Out of Band Emission & Frequency Band Edge

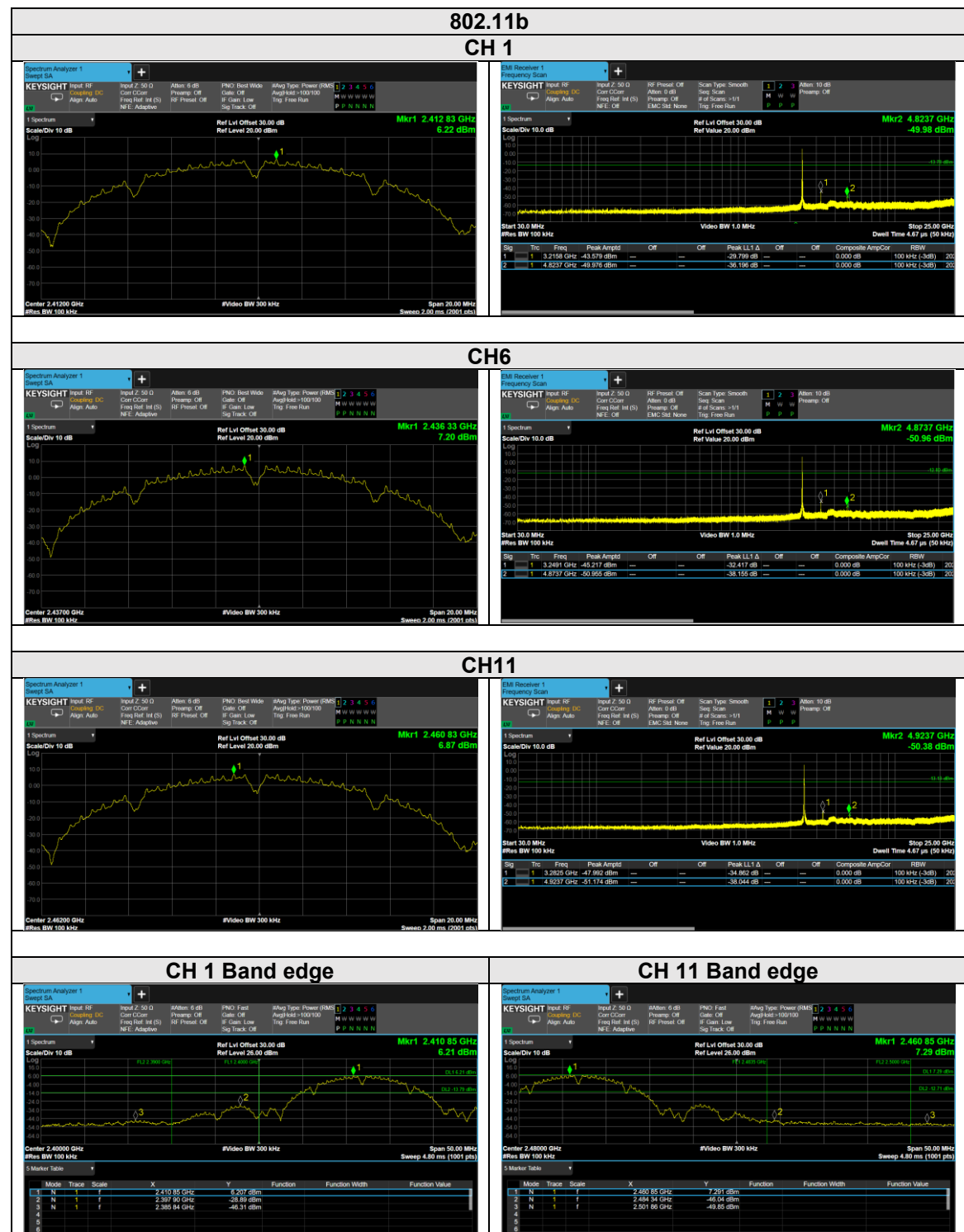
Test Date:	13-May-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.247(D) RSS-247 §5.5	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1- 2023 RSS-247 Issue 3	Photograph:	Annex II

9.1. Test Requirement:

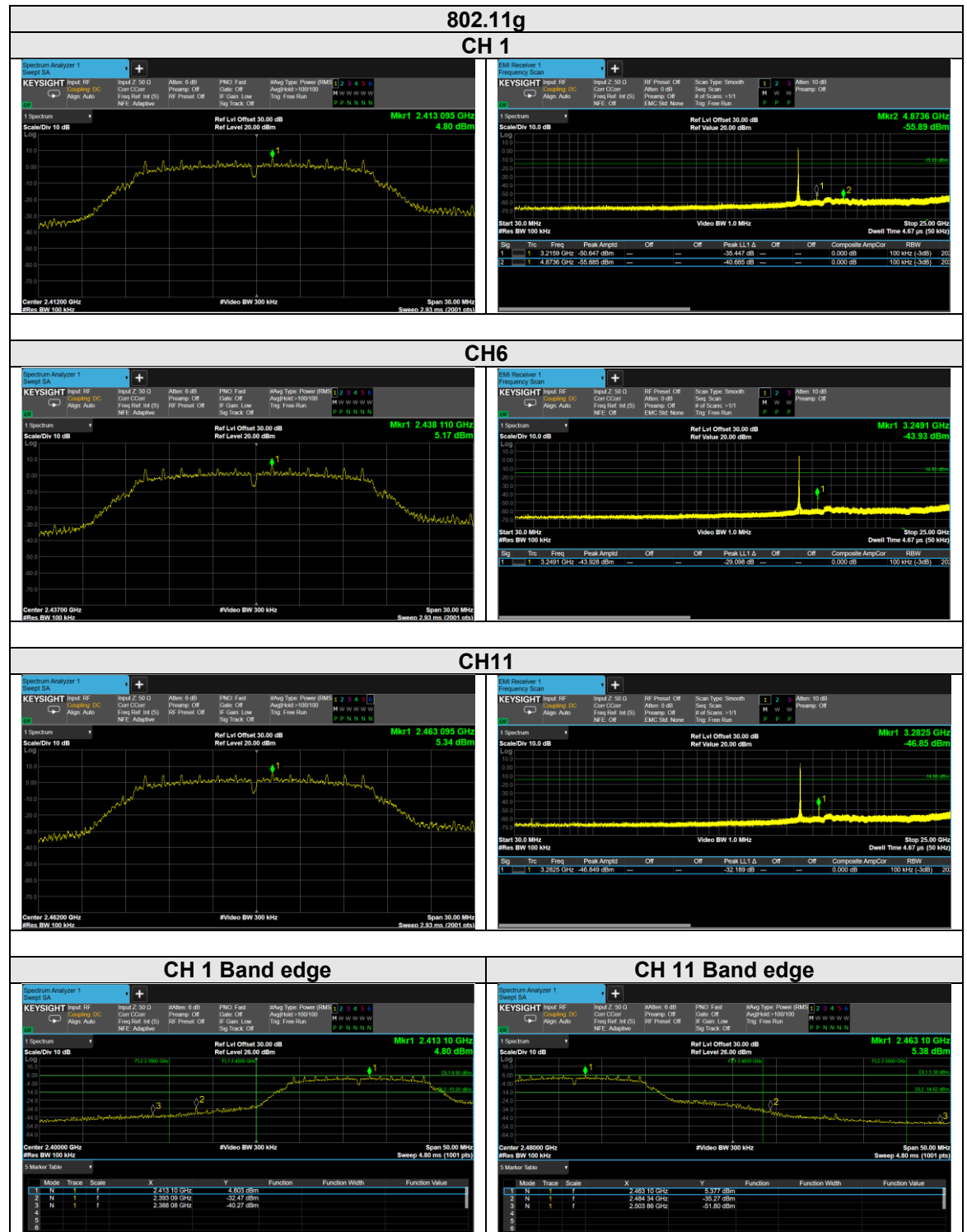
Normal test conditions	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
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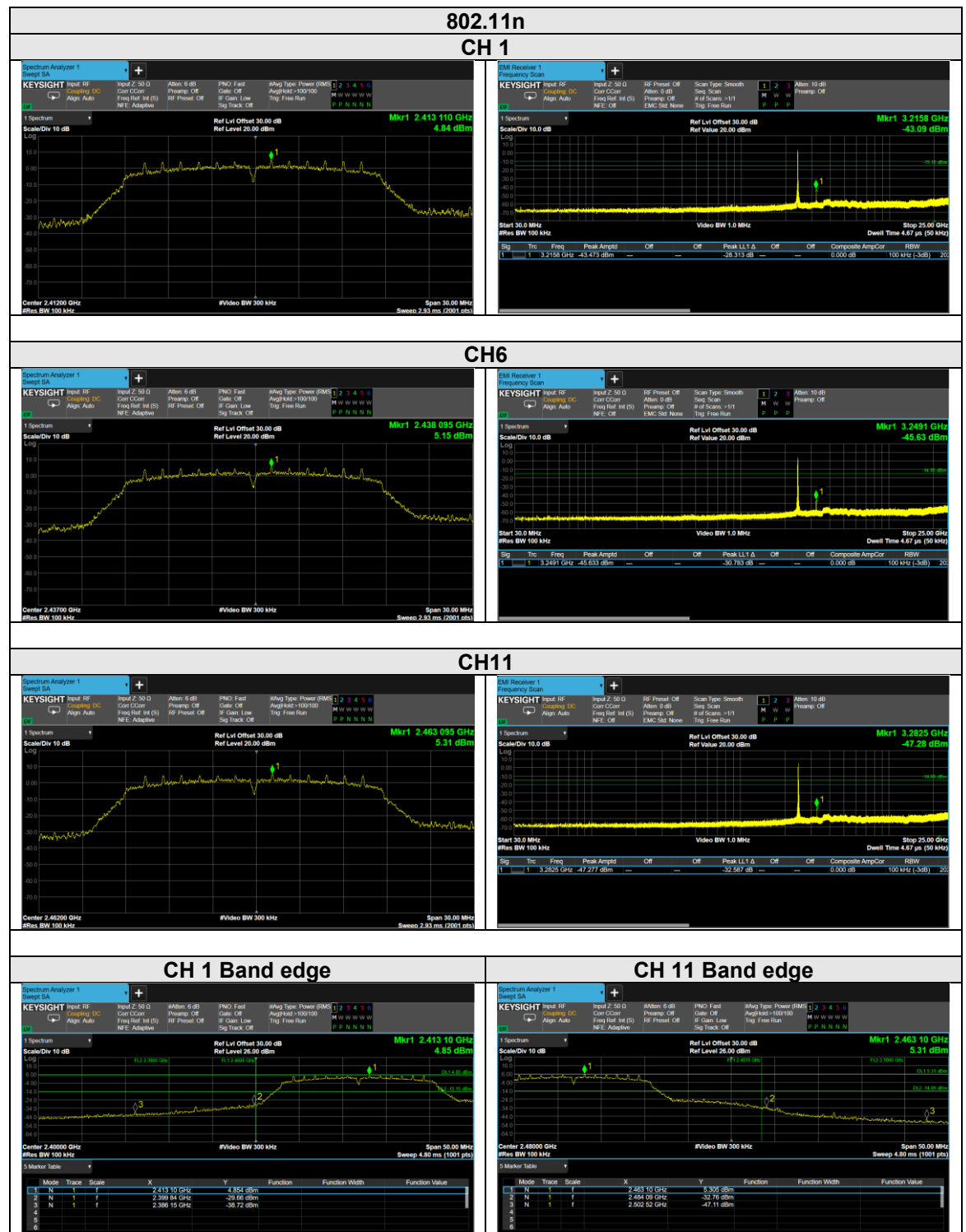
9.2. Test Result:



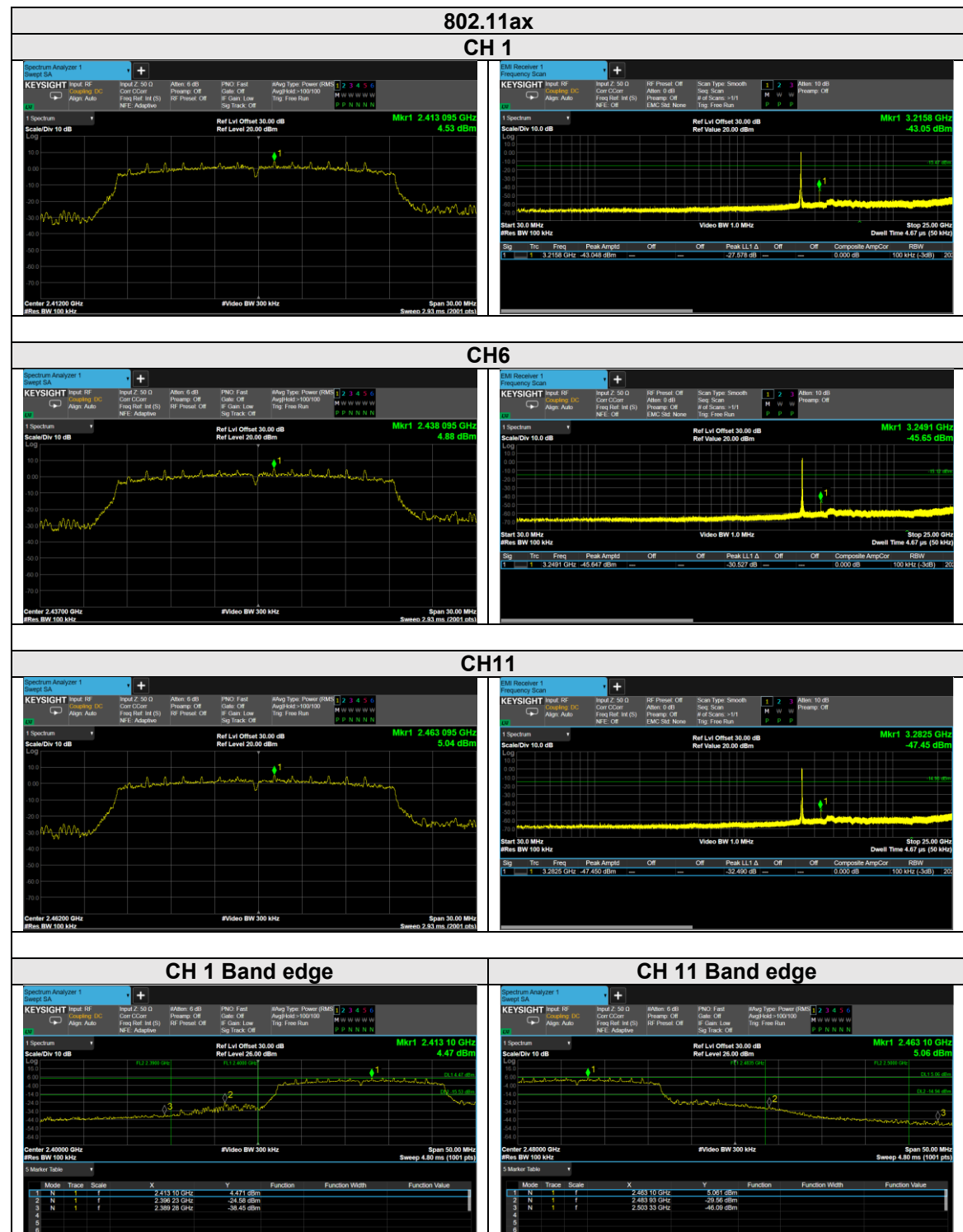
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10. Conducted Emission, Power Line

Test Date:	17-Apr-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	FCC §15.207(A)	Relative Humidity:	45%
Test Procedure:	ANSI C63.10:2020+COR.1-2023	Photograph:	Annex II

10.1. Test Requirement:

Normal test conditions	An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits specified in §15.209
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10.2. Limits of Conducted Emission Measurement

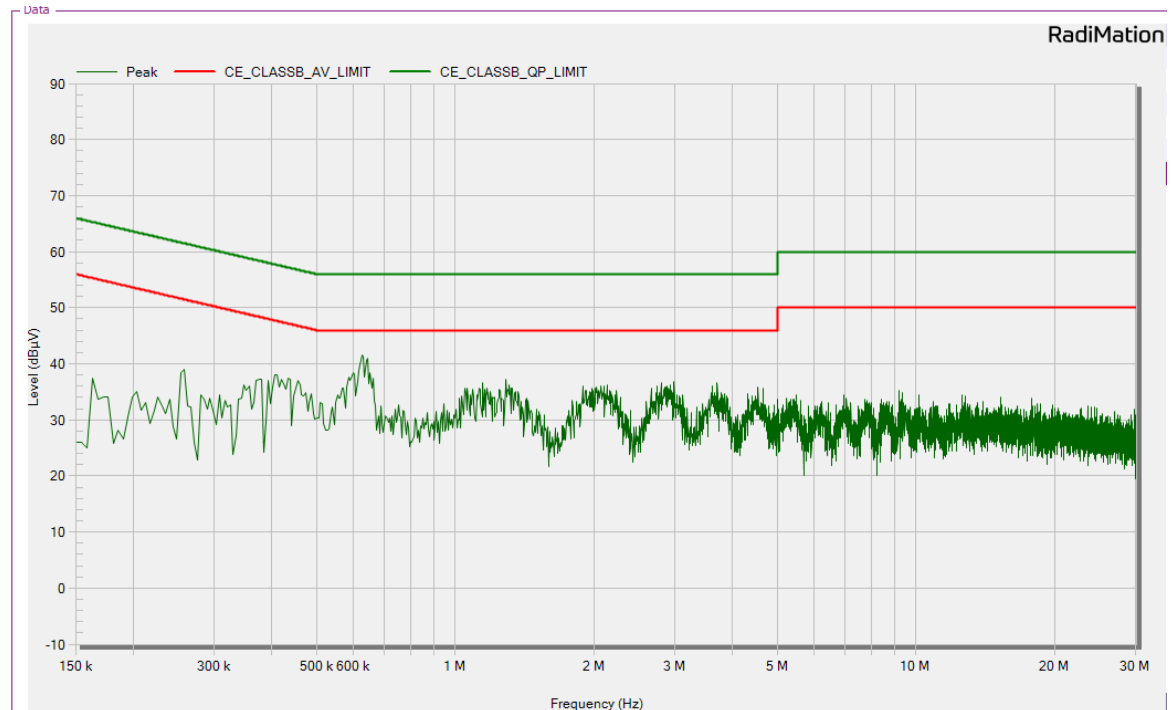
Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

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10.3. Test result:

Power Lead:	1Ph, N ☒ , L ☐
Frequency Range:	150kHz - 30MHz
Verdict:	Pass

10.3.1. Plot- Neutral



Frequency (MHz)	Corrected Amplitude Level			Limit		Margin		Result
	Peak (dBµV)	AVG (dBµV)	QP (dBµV)	QP (dBµV)	AVG (dBµV)	QP (dB)	AVG (dB)	
0.6	40.1	37.8	38.5	56	46	-17.5	-8.2	Pass
0.627	42	33.1	40.1	56	46	-15.9	-12.9	Pass
0.654	41.2	31.6	38.9	56	46	-17.1	-14.4	Pass
1.288	37.4	27.7	34.4	56	46	-21.6	-18.3	Pass
2.985	36.4	26.8	33.2	56	46	-22.8	-19.2	Pass
3.7	35.9	26.9	33	56	46	-23.0	-19.1	Pass

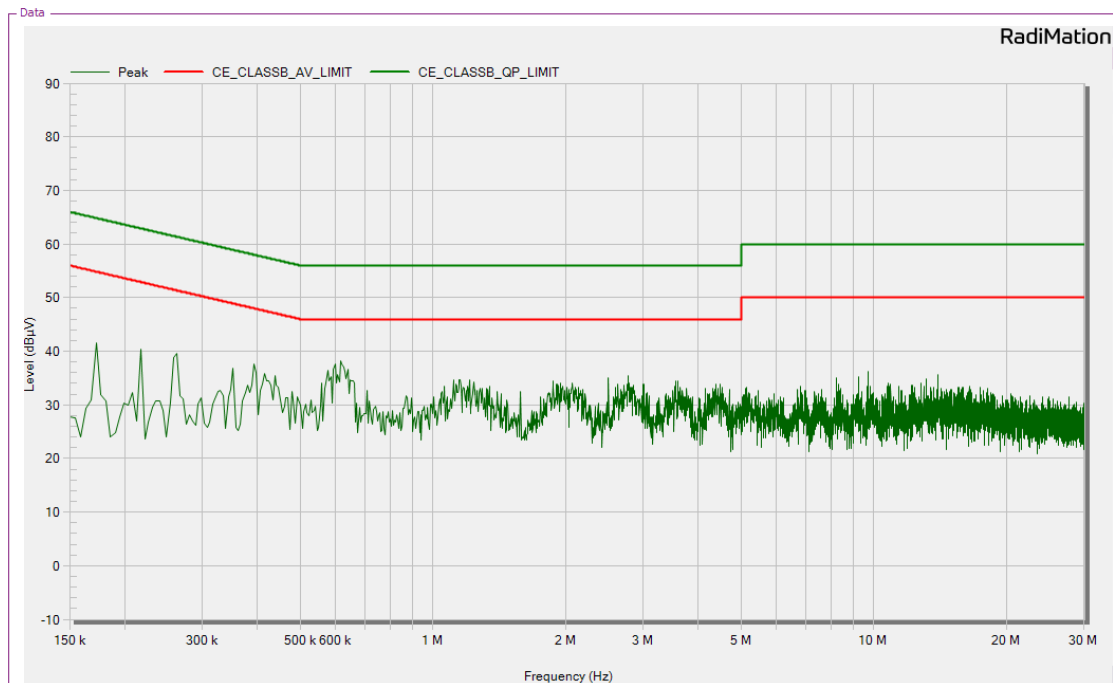
Note:

Corrected Amplitude Level [dBµV] = LISN factor[dB] + Cable loss[dB] + Limiter Loss[dB] + Reading level[dBµV].

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Power Lead:	1Ph, N□, L1☒
Frequency Range:	150kHz - 30MHz
Verdict:	Pass

10.3.2.Plot - Line



Frequency (MHz)	Corrected Amplitude Level			Limit		Margin		Result
	Peak (dBμV)	AVG (dBμV)	QP (dBμV)	QP (dBμV)	AVG (dBμV)	QP (dB)	AVG (dB)	
0.393	39.2	34.8	37.7	58	48	-20.3	-13.2	Pass
0.577	39.4	26.4	34.5	56	46	-21.5	-19.6	Pass
0.618	40.5	28.1	36.6	56	46	-19.4	-17.9	Pass
0.64	39.3	28.7	36.5	56	46	-19.5	-17.3	Pass
2.503	32.6	21.5	28.6	56	46	-27.4	-24.5	Pass
2.773	35.7	25.8	32.3	56	46	-23.7	-20.2	Pass

Note:

Corrected Amplitude Level [dBμV] = LISN factor[dB] + Cable loss[dB] + Limiter Loss[dB] + Reading level[dBμV].

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11. Antenna Requirement

Test Date:	15-Apr-25	Temperature:	23°C
Tested By:	Ilya Manski	Pressure:	1030.2 hPa
Test Standard:	§ 15.203 RSS-GEN §6.8	Relative Humidity:	45%
Test Procedure:	-	Photograph:	Annex II

11.1. Test Requirement:

Normal test conditions	According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria: 1. Antenna must be permanently attached to the unit. 2. Antenna must use a unique type of connector to attach to the EUT. 3. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
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11.2. Antenna Connector Construction

The EUT has external antenna with unique antenna connector, the detail information as follows, fulfill the requirement of this section.

Model	Type	Brand	PN	Freq. (MHz)	Connector
AS0001-ANT-2	Dual Band Dipole Antenna	Solaredge	D2224AC	860-930 2400-2500	RP SMA

11.3. Verdict: Compliance

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12. Annex I- Test Equipment List:

Description	Manufacturer	Model Name	Serial No.	Cal date	Due date
Humidity-Temperature-Air Pressure Meter	Greisinger	GFTB 200	34905708	10/06/2024	10/06/2025
Power Meter 50MHz - 18GHz	Keysight Technologies	U2021XA	MY61160019	18/06/2024	18/06/2025
EMI Receiver 3Hz - 8.4GHz	Keysight Technologies	N9038B	MY60180027	23/07/2023	22/07/2025
EMI Receiver 3Hz - 44GHz	Keysight Technologies	N9038B	MY60180026	08/07/2024	08/07/2026
Antenna Loop 10kHz - 30MHz	Schwarzbeck	FMZB1519	217	31/06/2023	31/06/2025
Bilog Antenna 30MHz – 1GHz	Schwarzbeck	VULB9164	16	18/04/2024	17/04/2027
Low-Noise Amplifier 1GHz - 40GHz	QUINSTAR TECHNOLOGY	QLW-01403550-HA01	1639100001	11/10/2023	10/10/2025
Horn Antenna 1GHz - 18GHz	Schwarzbeck	BBHA9120D	2485	18/07/2024	18/07/2027
Horn Antenna 15GHz - 40GHz	Schwarzbeck	BBHA9170	1138	18/07/2024	18/07/2027
DC-18GHz,10W 10dB Attenuator	RF ONE Electronics	RFHB18010NC10		NCR	NCR
DC-18GHz,20W 30dB Attenuator	Mini-Circuits	BW-N30W20+		NCR	NCR
Band Reject Filter (LC) Chebyshev	Wainwright instr. GmbH	WRLHKX11+10-2000-2400-2500-3000-50ST		NCR	NCR
90 dB Programmable attenuator	Mini circuit	RCDAT-8000-90	12104060092	NCR	NCR
RF Transient Limiter	Schwarzbeck	VTSD 9561 F-N	913	14/08/2024	14/08/2027
LISN 1PH 50A	Schwarzbeck	NSLK8122	156	13/08/2024	13/08/2027
RF Cable	Huber Suhner	SUCOFLEX_102_E	510969 /2EA	06/01/2025	06/01/2028
RF Cable	Huber Suhner	SUCOFLEX_102_E	510971 /2EA	06/01/2025	06/01/2028
RF Cable	Huber Suhner	SUCOFLEX_102_E	510967 /2EA	06/01/2025	06/01/2028
RF Cable	Huber Suhner	SUCOFLEX_102_E	510970 /2EA	06/01/2025	06/01/2028
RF Cable	Huber Suhner	SUCOFLEX_126_EA	514568/126EA	06/01/2025	06/01/2028
RF Cable	Huber Suhner	SUCOFLEX_126_EA	514569/126EA	06/01/2025	06/01/2028

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13. Lab Accreditation



Accredited Laboratory

A2LA has accredited

SOLAREGE TECHNOLOGIES LTD.

Herzeliya, Israel

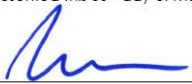
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30th day of May 2024



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6185.01
Valid to February 28, 2026

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

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End of the report