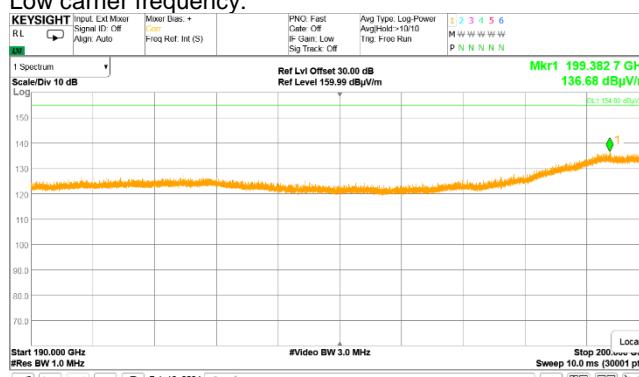




HERMON LABORATORIES

Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz			
Test procedure: ANSI C63.10, Sections 9.9, 9.12			
Test mode: Compliance			
Date(s): 05-Jun-24			
Temperature: 23 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 48 VDC
Remarks:			

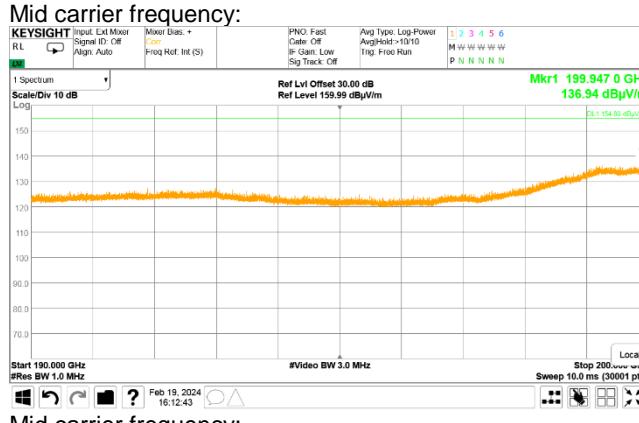
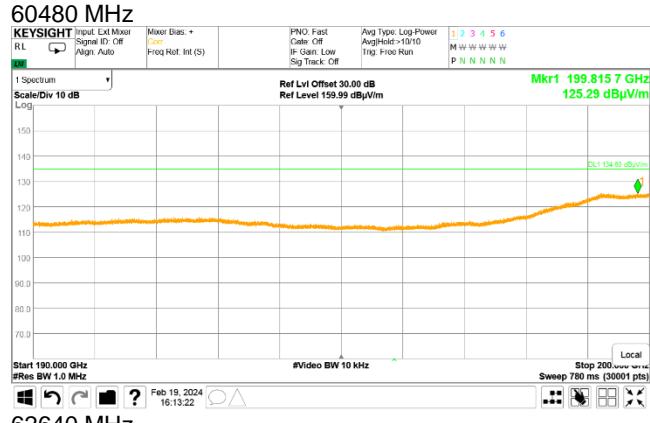
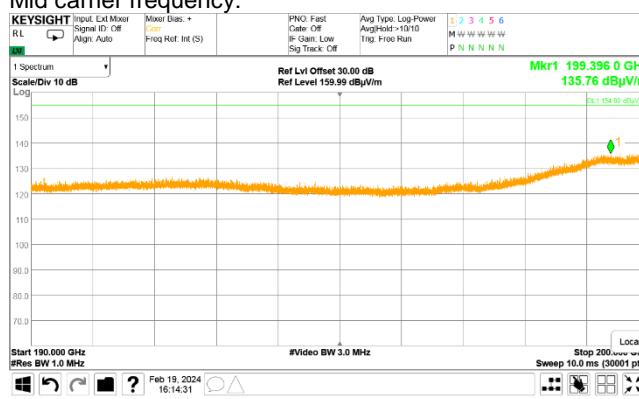
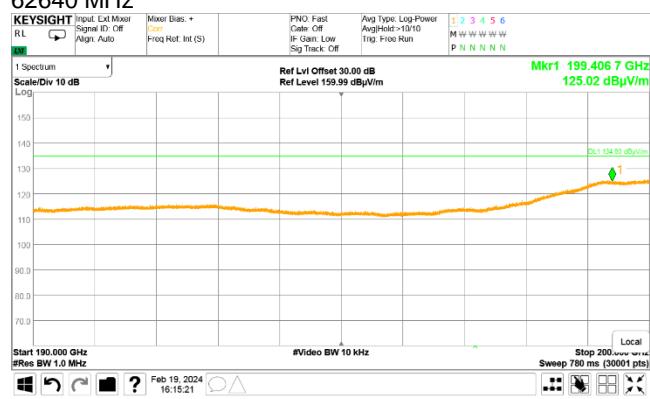
Plot 7.4.31 Spurious emission measurements in 190 - 200 GHz range**TEST SITE:****TEST DISTANCE:****MODULATION:****ANTENNA POLARIZATION:****DETECTOR:** Peak RBW = 1 MHz; VBW = 3 MHz**Low carrier frequency:****OATS**

0.01 m

16QAM

Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

58320 MHz**Mid carrier frequency:****60480 MHz****Mid carrier frequency:****62640 MHz**



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Report ID: SIKRAD_FCC.52762.docx
Date of Issue: 18-Aug-25

Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz				
Test procedure: ANSI C63.10, Sections 9.9, 9.12				
Test mode: Compliance				
Date(s): 05-Jun-24				
Temperature: 23 °C	Relative Humidity: 45 %	Air Pressure: 1005 hPa	Power: 48 VDC	
Remarks:				

Plot 7.4.32 Spurious emission measurements in 190 - 200 GHz range

TEST SITE:

OATS

TEST DISTANCE:

0.01 m

MODULATION:

16QAM

ANTENNA POLARIZATION:

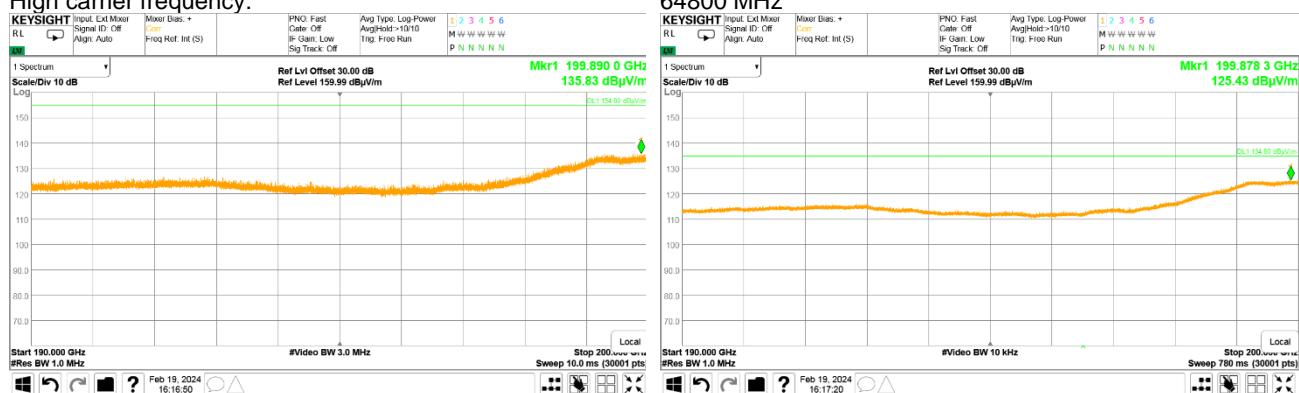
Vertical and Horizontal

DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz

DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz

High carrier frequency:

64800 MHz





HERMON LABORATORIES

Test specification:	FCC Section 15.255(f), RSS-210 section J.6, Frequency stability		
Test procedure:	ANSI C63.10, Section 9.14		
Test mode:	Compliance	Verdict:	PASS
Date(s):	01-May-24		
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

7.5 Frequency stability test

7.5.1 General

This test was performed to measure frequency stability of transmitter RF carrier. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Frequency stability limits

Assigned frequency, MHz	Maximum allowed frequency displacement
58320	NA
60480	NA
62640	NA
64800	NA

7.5.2 Test procedure

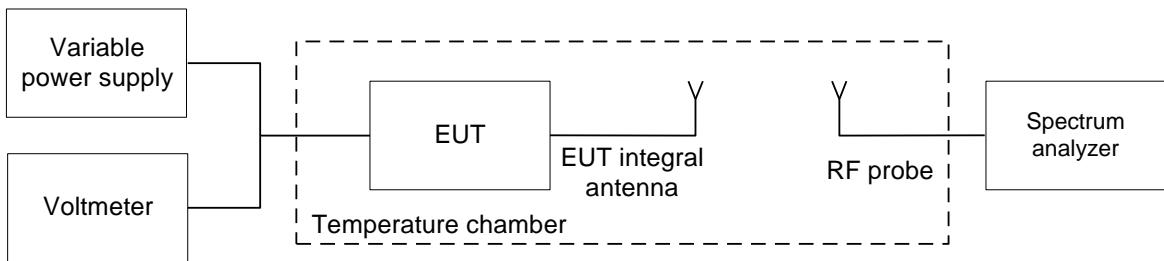
- 7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized and its proper operation was checked.
- 7.5.2.2 The EUT power was turned off. Temperature within test chamber was set to +30°C and a period of time sufficient to stabilize all of the oscillator circuit components was allowed.
- 7.5.2.3 The EUT was powered on and carrier frequency was measured at start up moment +30°C and then every minute until frequency had been stabilized or 10 minutes elapsed whichever reached the last. The EUT was powered off.
- 7.5.2.4 The above procedure was repeated at the rest of the test temperatures and voltages as provided in Table 7.5.2. The EUT was powered off.
- 7.5.2.5 Frequency displacement was calculated and compared with the limit as provided in Table 7.5.2.



HERMON LABORATORIES

Test specification:	FCC Section 15.255(f), RSS-210 section J.6, Frequency stability		
Test procedure:	ANSI C63.10, Section 9.14		
Test mode:	Compliance	Verdict:	PASS
Date(s):	01-May-24		
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

Figure 7.5.1 Frequency stability test setup





HERMON LABORATORIES

Test specification: FCC Section 15.255(f), RSS-210 section J.6, Frequency stability									
Test procedure:		ANSI C63.10, Section 9.14							
Test mode:		Compliance						Verdict: PASS	
Date(s):		01-May-24							
Temperature: 24 °C		Relative Humidity: 52 %			Air Pressure: 1012 hPa		Power: 48 VDC		
Remarks:									

Table 7.5.2 Frequency stability test results

OPERATING FREQUENCY: 57000 – 71000 MHz
 NOMINAL POWER VOLTAGE: 48 V
 TEMPERATURE STABILIZATION PERIOD: 20 min
 POWER DURING TEMPERATURE TRANSITION: Off
 SPECTRUM ANALYZER MODE: Counter
 RESOLUTION BANDWIDTH: 3 kHz
 VIDEO BANDWIDTH: 10 kHz
 MODULATION: Unmodulated

T, °C	Voltage, V	Frequency, MHz							Max frequency drift, kHz	
		Start up	1 st min	2 nd min	3 rd min	4 th min	5 th min	10 th min	Positive	Negative
Low frequency 58320 MHz										
-45	nominal	58319.933069	NA	NA	NA	NA	NA	58319.928011	13.120	N/A
-40	nominal	58319.934281	NA	NA	NA	NA	NA	58319.927073	11.908	N/A
-30	nominal	58319.908230	NA	NA	NA	NA	NA	58319.905739	37.959	N/A
-20	nominal	58319.928928	58319.929014	58319.928389	58319.926799	58319.929216	58319.929229	58319.928041	18.147	N/A
-10	nominal	58319.962615	NA	NA	NA	NA	NA	58319.967873	N/A	-85.443
0	nominal	58319.977053	58319.976713	58319.977015	58319.976092	58319.975490	58319.975561	58319.975509	N/A	-30.864
10	nominal	58319.960921	NA	NA	NA	NA	NA	58319.959216	N/A	-14.732
20	+15%(55.2)	58319.946703	NA	NA	NA	NA	NA	58319.946704	N/A	-0.515
20	nominal	58319.946189	NA	NA	NA	NA	NA	58319.946189	0.000	0.000
20	-15%(40.8)	58319.946526	NA	NA	NA	NA	NA	58319.946524	N/A	-69.352
30	nominal	58319.909963	58319.909929	58319.909158	58319.909103	58319.909144	58319.909039	58319.907992	N/A	N/A
40	nominal	58319.881552	NA	NA	NA	NA	NA	58319.882108	64.637	N/A
50	nominal	58319.877712	NA	NA	NA	NA	NA	58319.877172	69.017	N/A
55	nominal	58319.876157	NA	NA	NA	NA	NA	58319.877786	70.032	N/A
Mid frequency 60480 MHz										
-45	nominal	60479.926546	NA	NA	NA	NA	NA	60479.925479	18.981	N/A
-40	nominal	60479.925007	NA	NA	NA	NA	NA	60479.923729	20.519	N/A
-30	nominal	60479.901848	NA	NA	NA	NA	NA	60479.898576	43.678	N/A
-20	nominal	60479.926104	60479.927913	60479.927384	60479.945484	60479.921480	60479.926476	60479.921474	24.053	N/A
-10	nominal	60479.957480	NA	NA	NA	NA	NA	60479.946900	N/A	-83.682
0	nominal	60479.973478	60479.973683	60479.973240	60479.973004	60479.972871	60479.973419	60479.974640	N/A	-29.113
10	nominal	60479.957272	NA	NA	NA	NA	NA	60479.956880	N/A	-11.745
20	+15%(55.2)	60479.945121	NA	NA	NA	NA	NA	60479.945122	0.406	N/A
20	nominal	60479.945526	NA	NA	NA	NA	NA	60479.945527	0.001	N/A
20	-15%(40.8)	60479.954114	NA	NA	NA	NA	NA	60479.954114	N/A	-80.316
30	nominal	60479.904241	60479.904977	60479.903554	60479.903916	60479.903560	60479.903307	60479.903544	42.220	N/A
40	nominal	60479.877941	NA	NA	NA	NA	NA	60479.878438	67.089	N/A
50	nominal	60479.873827	NA	NA	NA	NA	NA	60479.873799	71.728	N/A
55	nominal	60479.873584	NA	NA	NA	NA	NA	60479.874580	71.943	N/A
Mid frequency 62640 MHz										
-45	nominal	62639.936458	NA	NA	NA	NA	NA	62639.933609	1.985	N/A
-40	nominal	62639.920372	NA	NA	NA	NA	NA	62639.818002	18.071	N/A
-30	nominal	62639.895094	NA	NA	NA	NA	NA	62639.893606	43.349	N/A
-20	nominal	62639.935623	62639.933381	62639.932617	62639.932173	62639.932747	62639.932605	62639.928950	9.493	N/A
-10	nominal	62639.955973	NA	NA	NA	NA	NA	62639.955220	N/A	-85.754
0	nominal	62639.971390	62639.970958	62639.970882	62639.970617	62639.970347	62639.970967	62639.969903	N/A	-32.947
10	nominal	62639.955810	NA	NA	NA	NA	NA	62639.955004	N/A	-17.367
20	+15%(55.2)	62639.933870	NA	NA	NA	NA	NA	62639.933871	4.573	N/A
20	nominal	62639.938442	NA	NA	NA	NA	NA	62639.938443	0.001	N/A
20	-15%(40.8)	62639.938513	NA	NA	NA	NA	NA	62639.938514	N/A	-68.294
30	nominal	62639.900116	62639.900211	62639.900053	62639.900661	62639.900435	62639.900693	62639.900555	38.390	N/A
40	nominal	62639.874700	NA	NA	NA	NA	NA	62639.874720	63.743	N/A
50	nominal	62639.869491	NA	NA	NA	NA	NA	62639.870220	68.952	N/A
55	nominal	62639.870088	NA	NA	NA	NA	NA	62639.870395	68.355	N/A



HERMON LABORATORIES

Test specification: FCC Section 15.255(f), RSS-210 section J.6, Frequency stability	
Test procedure: ANSI C63.10, Section 9.14	
Test mode: Compliance	Verdict: PASS
Date(s): 01-May-24	
Temperature: 24 °C	Relative Humidity: 52 %
	Air Pressure: 1012 hPa
Remarks:	

Table 7.5.3 Frequency stability test results

OPERATING FREQUENCY: 57000 – 71000 MHz
 NOMINAL POWER VOLTAGE: 48 V
 TEMPERATURE STABILIZATION PERIOD: 20 min
 POWER DURING TEMPERATURE TRANSITION: Off
 SPECTRUM ANALYZER MODE: Counter
 RESOLUTION BANDWIDTH: 3 kHz
 VIDEO BANDWIDTH: 10 kHz
 MODULATION: Unmodulated

High frequency 64800 MHz											
-45	nominal	64799.932134	NA	NA	NA	NA	NA	64799.926183	2.611	N/A	
-40	nominal	64799.931917	NA	NA	NA	NA	NA	64799.924496	2.827	N/A	
-30	nominal	64799.890082	NA	NA	NA	NA	NA	64799.888531	44.663	N/A	
-20	nominal	64799.925558	64799.924231	64799.925101	64799.924815	64799.924515	64799.923128	64799.922662	12.083	N/A	
-10	nominal	64799.962412	NA	NA	NA	NA	NA	64799.958402	N/A	-94.336	
0	nominal	64799.964485	64799.968940	64799.968950	64799.969530	64799.969792	64799.969044	64799.969713	N/A	-35.047	
10	nominal	64799.953662	NA	NA	NA	NA	NA	64799.953206	N/A	-18.918	
20	+15%(55.2)	64799.935144	NA	NA	NA	NA	NA	64799.934782	N/A	-0.399	
20	nominal	64799.935417	NA	NA	NA	NA	NA	64799.934745	N/A	-0.672	
20	-15%(40.8)	64799.935169	NA	NA	NA	NA	NA	64799.935498	N/A	-67.421	
30	nominal	64799.898940	64799.898856	64799.898007	64799.897880	64799.898540	64799.898483	64799.898911	36.865	N/A	
40	nominal	64799.870253	NA	NA	NA	NA	NA	64799.870246	64.498	N/A	
50	nominal	64799.868249	NA	NA	NA	NA	NA	64799.868077	66.668	N/A	
55	nominal	64799.866602	NA	NA	NA	NA	NA	64799.866229	68.516	N/A	

* - Reference frequency

Reference numbers of test equipment used

HL 0771	HL 3230	HL 3291	HL 5376	HL 5380	HL 5933	HL 7546	
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Full description is given in Appendix A.



HERMON LABORATORIES

Test specification: Section 15.207(a), Conducted emission			
Test procedure: ANSI C63.4, Section 13.1.3			
Test mode: Compliance		Verdict: PASS	
Date(s): 01-May-24			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

7.6 Conducted emissions

7.6.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.6.1.

Table 7.6.1 Limits for conducted emissions

Frequency, MHz	Class B limit, dB(μV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

* The limit decreases linearly with the logarithm of frequency.

7.6.2 Test procedure

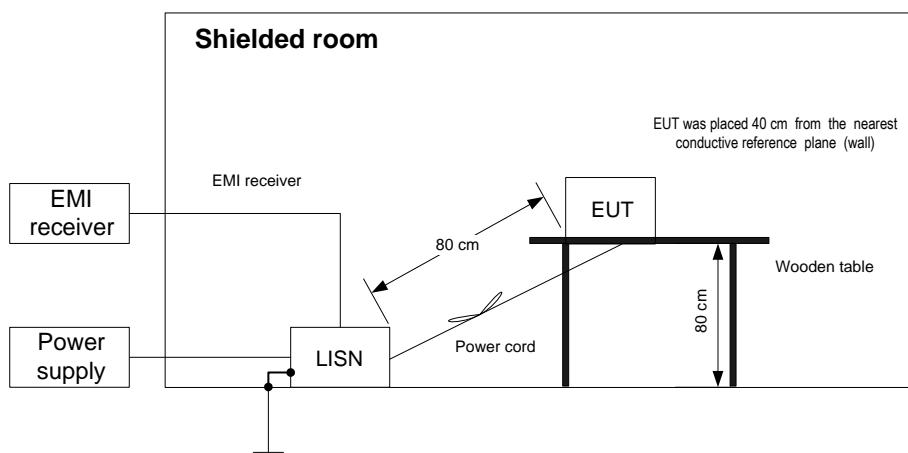
7.6.2.1 The EUT was set up as shown in Figure 7.6.1 and associated photographs, energized and the performance check was conducted.

7.6.2.2 The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer in the frequency range referred to in Table 7.6.2. Unused coaxial connector of the LISN was terminated with 50 Ohm. Quasi-peak and average detectors were used throughout the testing.

7.6.2.3 The position of the device cables was varied to determine maximum emission level.

7.6.2.4 The worst test results (the lowest margins) were recorded in Table 7.6.2 and shown in the associated plots.

Figure 7.6.1 Setup for conducted emission measurements, table-top equipment





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Test specification: Section 15.207(a), Conducted emission	
Test procedure: ANSI C63.4, Section 13.1.3	
Test mode: Compliance	Verdict: PASS
Date(s): 01-May-24	
Temperature: 24 °C	Relative Humidity: 52 %
Air Pressure: 1012 hPa	
Power: 48 VDC	
Remarks:	

Table 7.6.2 Conducted emission test results

LINE: AC mains
 EUT OPERATING MODE: Transmit
 EUT SET UP: TABLE-TOP
 TEST SITE: SHIELDED ROOM
 DETECTORS USED: PEAK / QUASI-PEAK / AVERAGE
 FREQUENCY RANGE: 150 KHz - 30 MHz
 RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(µV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(µV)	Limit, dB(µV)	Margin, dB*	Measured emission, dB(µV)	Limit, dB(µV)	Margin, dB*		
4.677	NA	42.19	56.00	-13.81	37.39	46.04	-8.65	L1	Pass
4.679	NA	42.13	56.00	-13.87	37.39	46.04	-8.65		
4.681	NA	42.18	56.00	-13.82	37.40	46.04	-8.64		
4.683	NA	42.18	56.00	-13.82	37.42	46.04	-8.62		
4.687	NA	42.25	56.00	-13.75	37.42	46.04	-8.62		
4.689	NA	42.28	56.00	-13.72	37.45	46.04	-8.59		
0.156	NA	50.33	65.71	-15.38	48.15	55.63	-7.48	L2	Pass
4.499	NA	43.43	56.00	-12.57	38.55	46.04	-7.49		
4.513	NA	43.36	56.00	-12.64	38.62	46.04	-7.42		
4.515	NA	43.41	56.00	-12.59	38.57	46.04	-7.47		
4.808	NA	43.64	56.00	-12.36	38.58	46.04	-7.46		
4.810	NA	43.58	56.00	-12.42	38.56	46.04	-7.48		

*- Margin = Measured emission - specification limit.

Reference numbers of test equipment used

HL 0787	HL 3016	HL 5476	HL 5707				
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Full description is given in Appendix A.

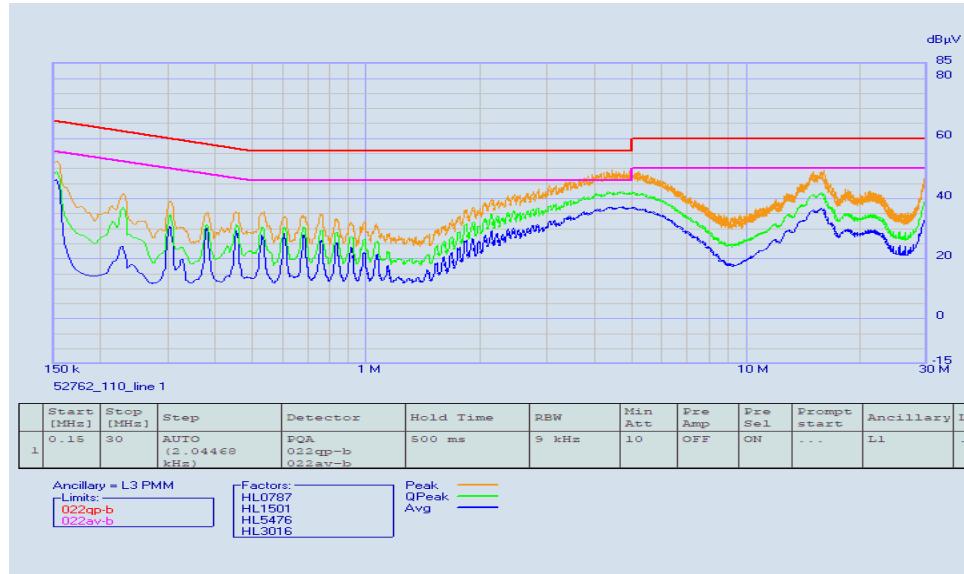


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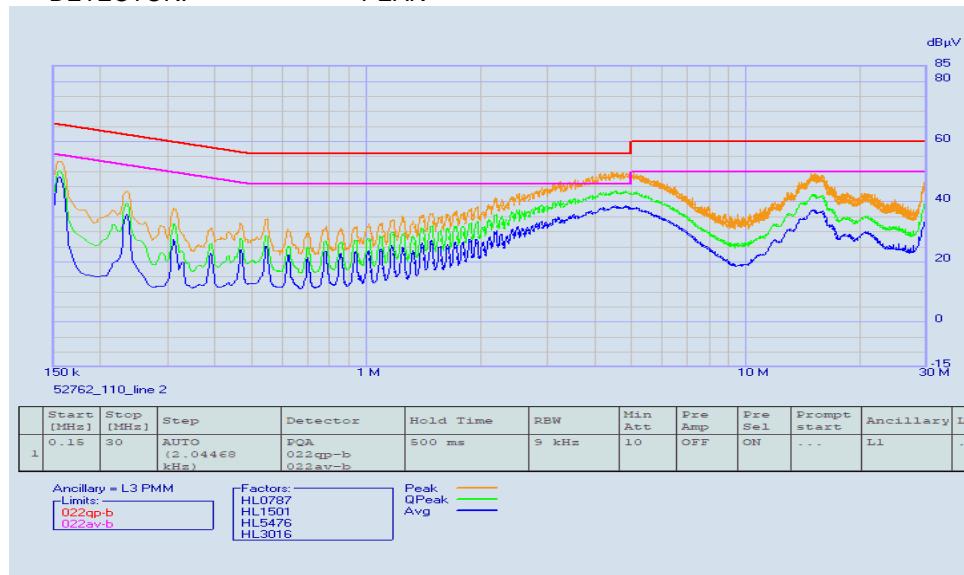
Test specification: Section 15.207(a), Conducted emission			
Test procedure: ANSI C63.4, Section 13.1.3			
Test mode: Compliance		Verdict: PASS	
Date(s): 01-May-24			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

Plot 7.6.1 Conducted emission measurements

LINE: L1
 EUT OPERATING MODE: Transmit
 LIMIT: QUASI-PEAK, AVERAGE
 DETECTOR: PEAK

**Plot 7.6.2 Conducted emission measurements**

LINE: L2
 EUT OPERATING MODE: Transmit
 LIMIT: QUASI-PEAK, AVERAGE
 DETECTOR: PEAK





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Test specification: Section 15.203, Antenna requirement			
Test procedure: Visual inspection / supplier declaration			
Test mode: Compliance			Verdict: PASS
Date(s): 15-Feb-24			
Temperature: 18 °C	Relative Humidity: 78 %	Air Pressure: 1008 hPa	Power: 48 VDC
Remarks:			

7.7 Antenna requirements

The EUT was verified for compliance with antenna requirements. A transmitter shall be designed to ensure that no antenna other than that furnished by the responsible party will be used with the device. It may be either permanently attached or employs a unique antenna connector for every antenna proposed for use with the EUT. This requirement does not apply to professionally installed transmitters.

The rationale for compliance with the above requirements was either visual inspection results or supplier declaration. The summary of results is provided in Table 7.7.1.

Table 7.7.1 Antenna requirements

Requirement	Rationale	Verdict
The transmitter antenna is permanently attached	NA	Comply
The transmitter employs a unique antenna connector	Visual inspection	
The transmitter requires professional installation	NA	



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8 APPENDIX A Test equipment and ancillaries used for tests

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal./Check	Due Cal./Check
0747	Mixer, Millimeter Wave Harmonic 90 - 140 GHZ	Oleson Microwave Labs	M08HWD	F80429-1	10-Mar-23	10-Mar-26
0770	Antenna Standard Gain Horn, 40-60 GHz WR-19, U-band, 24 dB mid-band gain	Quinstar Technology	QWH-1900-AA	118	09-Nov-23	09-Nov-24
0771	Antenna Standard Gain Horn, 60-90 GHz, WR-12, 24 dB mid-band gain	Quinstar Technology	QWH-1200-AA	111	13-Aug-23	13-Aug-24
1312	Mixer Millimeter Wave Harmonic 140-220 GHz	Oleson Microwave Labs	M05HWD	G91112-1	10-Mar-23	10-Mar-26
3230	Multimeter	Fluke	115C	94173028	15-Aug-23	15-Aug-24
3235	Harmonic mixer 40 to 60 GHz	Agilent Technologies	11970U	MY300301 82	06-Mar-23	06-Mar-26
3291	Attenuator, direct reading, 60 to 90 GHz, 0.2 W	Quinstar Technology	QAD-E00000	10381009	09-Nov-23	09-Nov-24
3293	Frequency multiplier, input 20-30 GHz, output 60-90 GHz	Quinstar Technology	QPM-75003E	10381003	09-Nov-23	09-Nov-24
3329	Antenna Standard Gain Horn, 140-220 GHz, WR-5, 24 dB mid-band gain	Quinstar Technology			09-Nov-23	09-Nov-24
3536	Antenna Standard Gain Horn, 90-140 GHz, WR-8, 24 dB mid-band gain	Quinstar Technology	QWH-FPRR00	11159004 001	09-Nov-23	09-Nov-24
3901	Microwave Cable Assembly, 40.0 GHz, 3.5 m, SMA/SMA	Huber-Suhner	SUCOFL EX 102A	1225/2A	16-Apr-23	16-Apr-24
4023	Diplexer for use OML mixers with Agilent spectrum analyzer	Oleson Microwave Labs	DPL.26	NA	20-Apr-23	20-Apr-24
4856	Amplifier, solid state, 18 GHz to 40 GHz, 20 dBm output power	Quinstar Technology	QGW-18402023 -JO	16779001 001	03-May-23	03-May-24
5235	WR8 to WR6 Waveguide Transition. Freq. Range: 110.0 - 140.0 GHz	AINFO(HK)LI MITED	86WA-30_Cu	J50506161 7	09-Nov-23	09-Nov-24
5371	EXG Analog Signal Generator, 9 kHz - 40 GHz	Keysight Technologies	N5173B	MY572805 40	23-Jan-24	23-Jan-25
5376	EXA Signal Analyzer, 10 Hz - 32 GHz	Keysight Technologies	N9010B	MY574704 04	08-Jan-24	08-Jan-25
5377	USB Thermocouple Power Sensor, DC-120 GHz	Keysight Technologies	U8489A	US564301 58	09-Oct-23	09-Oct-24
5380	Waveguide Harmonic Mixer 55-90GHz	Keysight Technologies	M1971E	MY561302 39	14-Jan-23	14-Jan-25
5714	Handheld Oscilloscope, 60 MHz, 4 channels	Rohde & Schwarz	RTH1004	104416	05-Jun-23	05-Jun-24
5933	Thermometer Hygrometer , (0 to +50) deg., (20-95) % RH	Kkmoon	Dyimore	NA	01-May-23	01-May-24



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Report ID: SIKRAD_FCC.52762.docx
Date of Issue: 18-Aug-25

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal./Check	Due Cal./Check
5986	Piramidal Horn antenna, 60 - 90 GHz, WR-12, 24 dB mid-band gain	Quinstar Technology	QWH-EPRR00	NA	20-Apr-23	20-Apr-24
7546	Power supply 60VDC/12.5A	Agilent Technologies	N5747A	US25F676 2C	16-May-22	16-May-23



HERMON LABORATORIES

9 APPENDIX B Test equipment correction factors

Antenna factor
Standard gain horn antenna
Quinstar Technology
Model QWH
Ser.No.112, HL 0768, 0769, 0770, 0771, 0772

Frequency min, GHz	Frequency max, GHz	Antenna factor, dB(1/m)
18.000	26.500	32.01
26.500	40.000	35.48
40.000	60.000	39.03
60.000	90.000	42.55
90.000	140.000	46.23
140.000	220.000	50.11

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB(μ V) to convert it into field intensity in dB(μ V/m).



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10 APPENDIX C Measurement uncertainties

Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted emissions with LISN	9 kHz to 150 kHz: ± 3.9 dB 150 kHz to 30 MHz: ± 3.8 dB
Radiated emissions at 10 m measuring distance Horizontal polarization	Biconilog antenna: ± 5.0 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.1 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 5.5 dB Biconical antenna: ± 5.5 dB Log periodic antenna: ± 5.6 dB Double ridged horn antenna: ± 5.8 dB
Vertical polarization	
Radiated emissions at 3 m measuring distance Horizontal polarization	Biconilog antenna: ± 5.3 dB Biconical antenna: ± 5.0 dB Log periodic antenna: ± 5.3 dB Double ridged horn antenna: ± 5.3 dB Biconilog antenna: ± 6.0 dB Biconical antenna: ± 5.7 dB Log periodic antenna: ± 6.0 dB Double ridged horn antenna: ± 6.0 dB
Vertical polarization	
Conducted emissions at RF antenna connector	9 kHz to 2.9 GHz: ± 2.6 dB 2.9 GHz to 6.46 GHz: ± 3.5 dB 6.46 GHz to 13.2 GHz: ± 4.3 dB 13.2 GHz to 22.0 GHz: ± 5.0 dB 22.0 GHz to 26.8 GHz: ± 5.5 dB 26.8 GHz to 40.0 GHz: ± 4.8 dB

Hermon Laboratories is accredited by A2LA for calibration according to present requirements of ISO/IEC 17025 and NCSL Z540-1. The accreditation is granted to perform calibration of parameters that are listed in the Scope of Hermon Laboratories Accreditation.

Hermon Laboratories calibrates its reference and transfer standards by calibration laboratories accredited to ISO/IEC 17025 by a mutually recognized Accreditation Body or by a recognized national metrology institute. All reference and transfer standards used in the calibration system are traceable to national or international standards.

In-house calibration of all test and measurement equipment is performed on a regular basis according to Hermon Laboratories calibration procedures, manufacturer calibration/verification procedures or procedures defined in the relevant standards. The Hermon Laboratories test and measurement equipment is calibrated within the tolerances specified by the manufacturers and/or by the relevant standards.



HERMON LABORATORIES

11 APPENDIX D Test laboratory description

Tests were performed at Hermon Laboratories Ltd., which is a fully independent, private, EMC, Radio, Safety, Environmental and Telecommunication testing facility.

Hermon Laboratories is recognized and accredited by the Federal Communications Commission (USA) for relevant parts of Code of Federal Regulations 47 (CFR 47), Test Firm Registration Number is 927748, Designation Number is IL1001; Recognized by Innovation, Science and Economic Development Canada for wireless and terminal testing (ISED), ISED #2186A, CAB identifier is IL1001; Certified by VCCI, Japan (the registration numbers for OATS are R-10808 for RE measurements below 1 GHz, G-20112 for RE measurements above 1 GHz, R-11082 for anechoic chamber for RE measurements below 1 GHz, G-10869 for RE measurements above 1 GHz, C-10845 for conducted emissions site and T-11606 for conducted emissions at telecommunication ports).

The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing, environmental simulation and calibration (for exact scope please refer to Certificate No. 839.01, 839.03 and 839.04).

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HERMON LABORATORIES

12 APPENDIX E

Specification references

47CFR part 15: 2022	Radio Frequency Devices.
ANSI C63.4: 2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ANSI C63.10: 2013	American National Standard of Procedures for Compliance Testing of Unlicemsed Wireless Devices
RSS-210 Issue 10: 2019	Licence-Exempt Radio Apparatus:Category I Equipment
RSS-Gen Issue 5 with Am.1: 2019	General Requirements for Compliance of Radio Apparatus



HERMON LABORATORIES

13 APPENDIX F Abbreviations and acronyms

A	ampere
AC	alternating current
A/m	ampere per meter
AM	amplitude modulation
AVRG	average (detector)
BB	broad band
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB(µV)	decibel referred to one microvolt
dB(µV/m)	decibel referred to one microvolt per meter
dB(µA)	decibel referred to one microampere
dBΩ	decibel referred to one Ohm
DC	direct current
EIRP	equivalent isotropically radiated power
ERP	effective radiated power
EUT	equipment under test
F	frequency
GHz	gigahertz
GND	ground
H	height
HL	Hermon laboratories
Hz	hertz
ITE	information technology equipment
k	kilo
kHz	kilohertz
LISN	line impedance stabilization network
LO	local oscillator
m	meter
MHz	megahertz
min	minute
mm	millimeter
ms	millisecond
µs	microsecond
NA	not applicable
NB	narrow band
NT	not tested
OATS	open area test site
Ω	Ohm
QP	quasi-peak
PM	pulse modulation
PS	power supply
RE	radiated emission
RF	radio frequency
rms	root mean square
Rx	receive
s	second
T	temperature
Tx	transmit
V	volt
VA	volt-ampere

END OF DOCUMENT