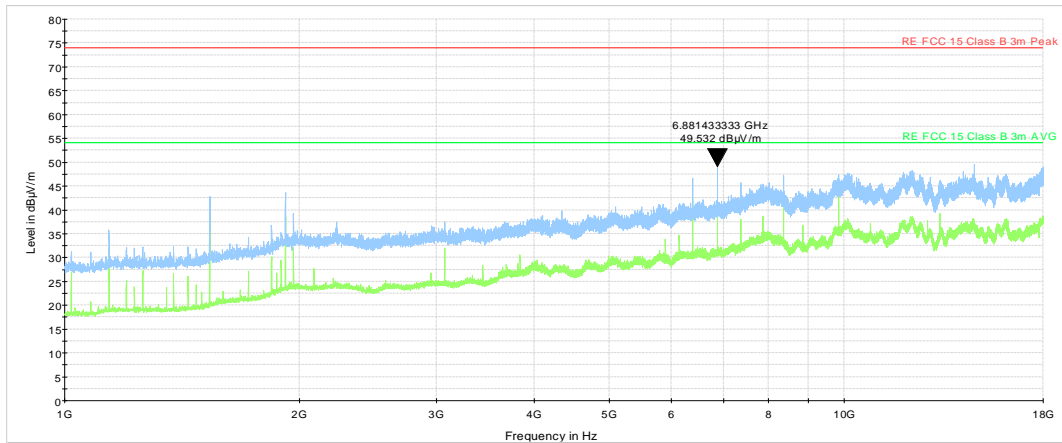




<b>Test specification: Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions</b>			
<b>Test procedure:</b> ANSI C63.10 section 11.12.1			
<b>Test mode:</b> Compliance		<b>Verdict: PASS</b>	
<b>Date(s):</b> 12-Jun-19 - 31-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

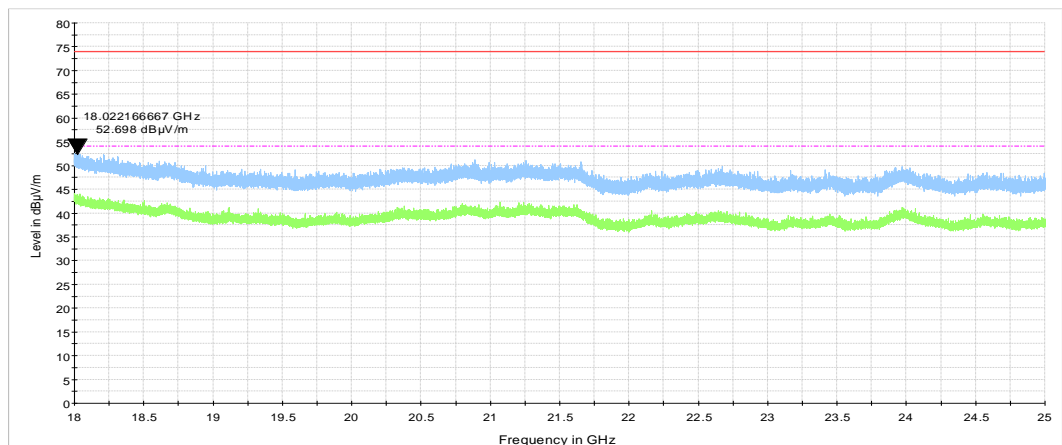
**Plot 7.3.9 Radiated emission measurements from 1GHz to 18GHz at the high carrier frequency**

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical/Horizontal



**Plot 7.3.10 Radiated emission measurements from 18GHz to 25GHz at the low carrier frequency**

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical/Horizontal

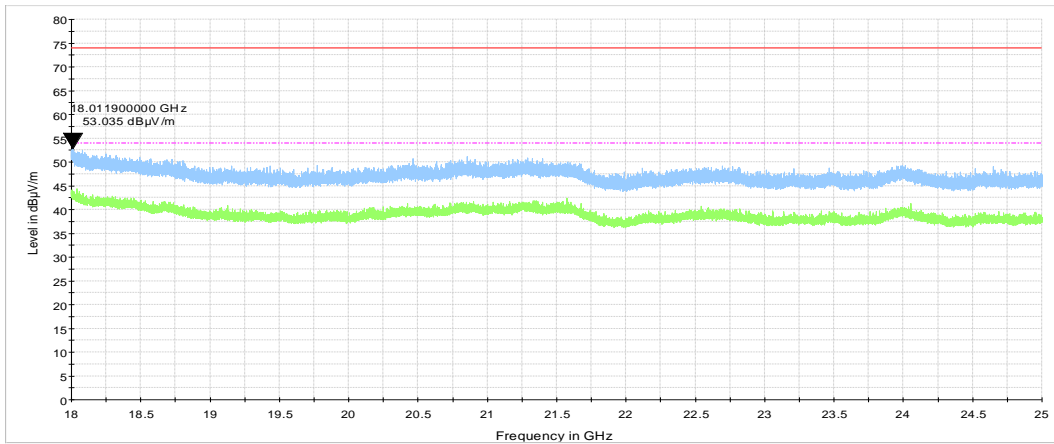




<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Radiated spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.1			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 12-Jun-19 - 31-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

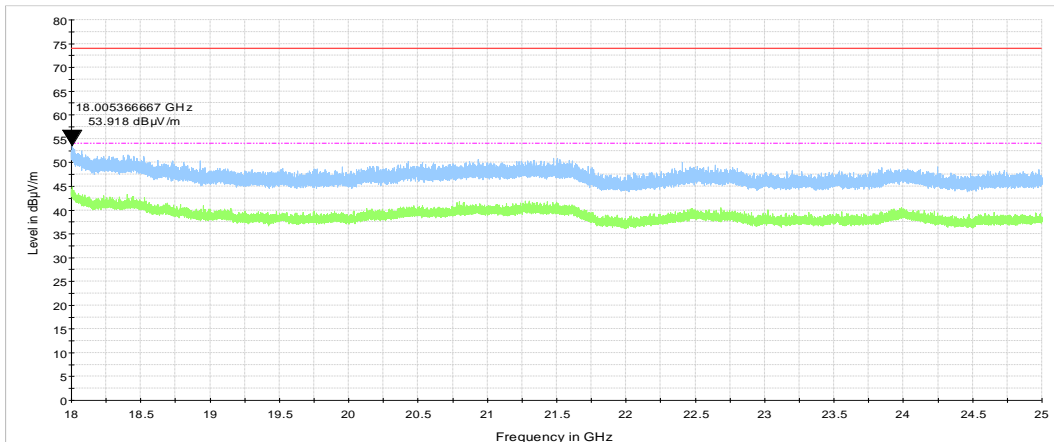
Plot 7.3.11 Radiated emission measurements from 18GHz to 25GHz at the mid carrier frequency

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical/Horizontal



Plot 7.3.12 Radiated emission measurements from 18GHz to 25GHz at the high carrier frequency

TEST SITE: Semi anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical/Horizontal





<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

## 7.4 Spurious emissions at RF antenna connector for one beam configuration

### 7.4.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Spurious emission limits

Frequency*, MHz	Attenuation below carrier*, dBc
0.009 – 10 <sup>th</sup> harmonic	20.0

\* - The above limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

\*\* - Spurious emission limit is provided in terms of attenuation below the peak of modulated carrier measured with the same resolution bandwidth.

### 7.4.2 Test procedure

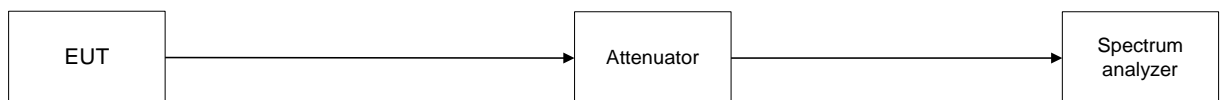
7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized and its proper operation was checked.

7.4.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

7.4.2.3 The highest emission level within the authorized band was measured.

7.4.2.4 The spurious emission was measured with spectrum analyzer as provided in Table 7.4.2 and Table 7.4.3 and Table 7.4.4 and associated plots and referenced to the highest emission level measured within the authorized band.

Figure 7.4.1 Spurious emission test setup





<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Table 7.4.2 Field strength of spurious emissions for one beam above 1 GHz within restricted bands

ASSIGNED FREQUENCY: 2400.0 -2483.5 MHz  
 INVESTIGATED FREQUENCY RANGE: 1000 – 25000 MHz  
 TEST DISTANCE: 3 m  
 MODULATION: QPSK  
 MODULATING SIGNAL: PRBS  
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum  
 RESOLUTION BANDWIDTH: 1000 kHz  
 TEST ANTENNA TYPE: Double ridged guide  
 NUMBER ANTENNA PORTS: N = 8

Frequency, MHz	Peak power (VBW=3 MHz)				Average power (VBW=3 kHz)				Verdict
	Measured, dBm	Total, dBm***	Limit, dBm*	Margin, dB**	Measured, dBm	Total, dBm***	Limit, dBm*	Margin, dB**	
<b>Channel bandwidth 5 MHz</b>									
<b>Low carrier frequency 2448.2 MHz</b>									
19379.0	-75.86	-66.86	-39.58	-27.28	-84.92	-75.92	-59.58	-16.34	Pass
<b>Mid carrier frequency 2458.2 MHz</b>									
19379.0	-76.74	-67.74	-39.58	-28.16	-84.44	-75.44	-59.58	-15.86	Pass
<b>High carrier frequency 2473.2 MHz</b>									
19379.0	-75.91	-66.91	-39.58	-27.33	-84.90	-75.90	-59.58	-16.32	Pass
<b>Channel bandwidth 10 MHz</b>									
<b>Low carrier frequency 2450.7 MHz</b>									
19386.0	-76.49	-67.49	-39.58	-27.91	-84.23	-75.23	-59.58	-15.65	Pass
<b>Mid carrier frequency 2460.7 MHz</b>									
19386.0	-76.34	-67.34	-39.58	-27.76	-83.87	-74.87	-59.58	-15.29	Pass
<b>High carrier frequency 2470.7 MHz</b>									
19379.0	-76.68	-67.68	-39.58	-28.10	-84.21	-75.21	-59.58	-15.63	Pass

\* - Limit = Radiated spurious emission limit – Directional Antenna Gain – 95.2

\*\* - Margin = Total emission - specification limit.

\*\*\* - Total emission = Maximum emission per chain + 10\*log(N)



<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Table 7.4.3 Field strength of spurious emissions for one beam below 1 GHz within restricted bands

ASSIGNED FREQUENCY: 2400.0 -2483.5 MHz  
 INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz  
 TEST DISTANCE: 3 m  
 MODULATION: QPSK  
 MODULATING SIGNAL: PRBS  
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum  
 RESOLUTION BANDWIDTH: 0.2 kHz (9 kHz – 150 kHz)  
 9.0 kHz (150 kHz – 30 MHz)  
 120 kHz (30 MHz – 1000 MHz)  
 VIDEO BANDWIDTH: > Resolution bandwidth  
 TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)  
 Biconilog (30 MHz – 1000 MHz)

Frequency, MHz	Peak emission, dB(µV/m)	Quasi-peak			Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	
<b>Low carrier frequency 2448.2 / 2450.7 MHz</b>					
No emissions were found					Pass
<b>Mid carrier frequency 2458.2 / 2460.7 MHz</b>					
No emissions were found					Pass
<b>High carrier frequency 2473.2 / 2470.7 MHz</b>					
No emissions were found					Pass

\*- Margin = Measured emission - specification limit.



<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Table 7.4.4 Spurious emission for one beam outside restricted bands test results

ASSIGNED FREQUENCY RANGE: 2400.0 -2483.5 MHz  
 INVESTIGATED FREQUENCY RANGE: 1000 – 25 000 MHz  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 100 kHz  
 VIDEO BANDWIDTH: 300 kHz  
 MODULATION: QPSK  
 MODULATING SIGNAL: PRBS  
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	Spurious emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
<b>Low carrier frequency 2448.2 / 2450.7 MHz</b>						
No emission were found						Pass
<b>Mid carrier frequency 2458.2 / 2460.7 MHz</b>						
No emission were found						Pass
<b>High carrier frequency 2473.2 / 2470.7 MHz</b>						
No emission were found						Pass

\*- Margin = Attenuation below carrier – specification limit.

Reference numbers of test equipment used

HL 4068	HL 4355	HL 5376	HL 5409			
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Full description is given in Appendix A.



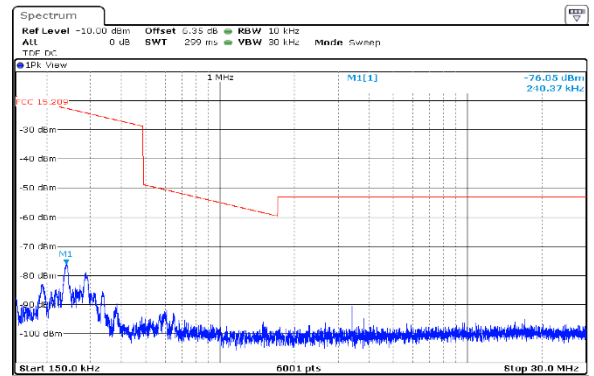
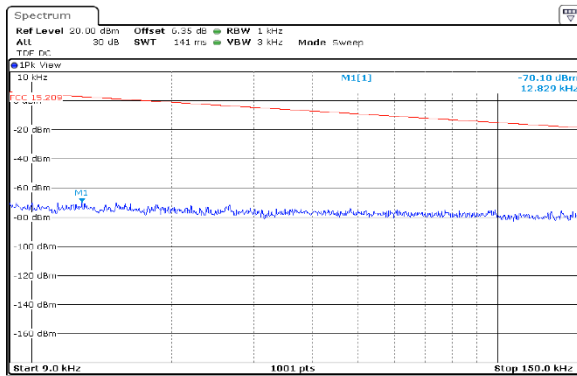
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.1 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency

CHANNEL BANDWIDTH:  
CONFIGURATION:  
ANTENNA PORT:

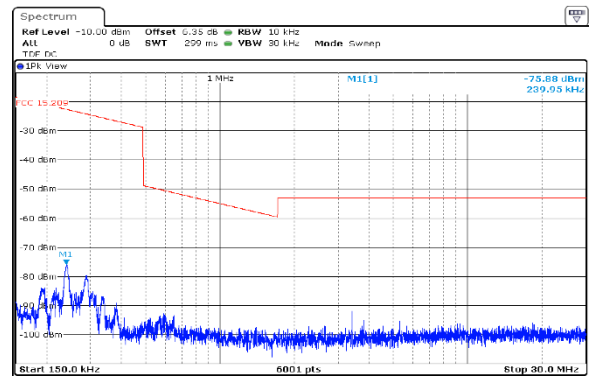
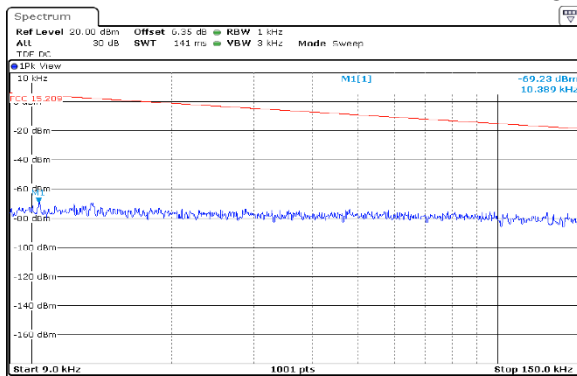
5 MHz  
ONE BEAM  
#1



Plot 7.4.2 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency

CHANNEL BANDWIDTH:  
CONFIGURATION:  
ANTENNA PORT:

5 MHz  
ONE BEAM  
#1

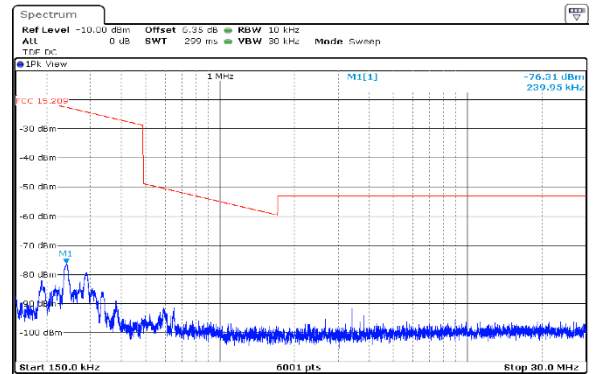
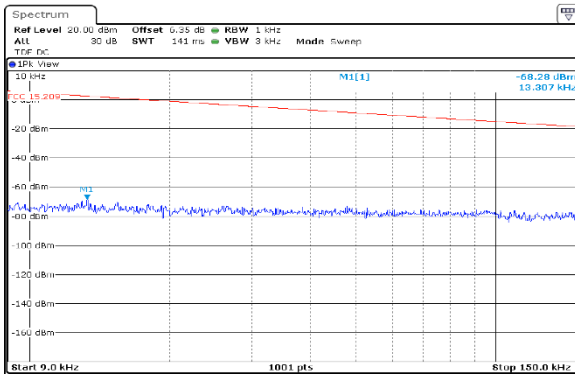




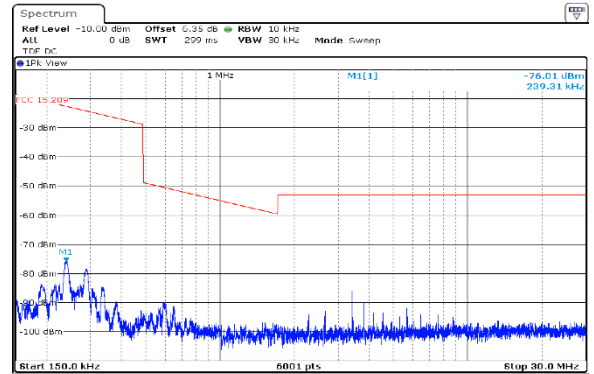
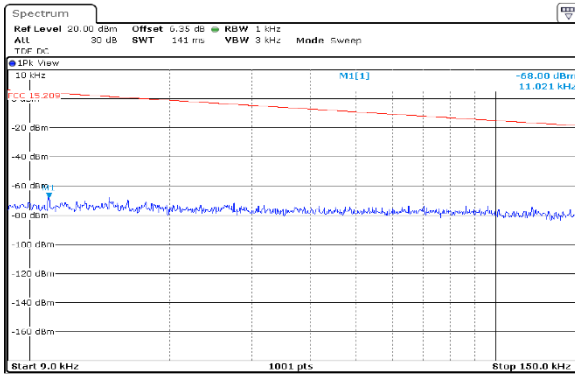
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.3 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
 CHANNEL BANDWIDTH: 5 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #1



**Plot 7.4.4 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
 CHANNEL BANDWIDTH: 5 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #2



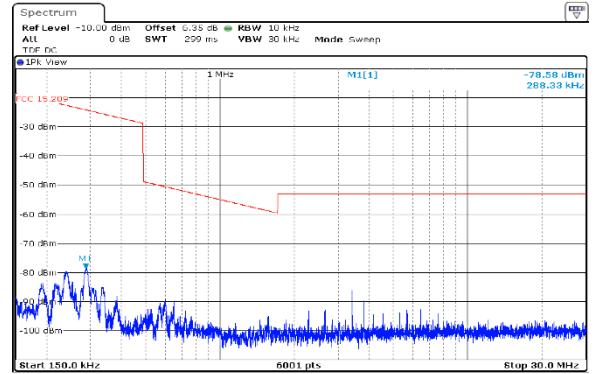
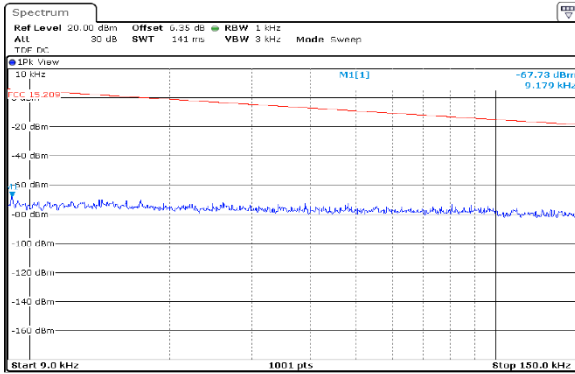




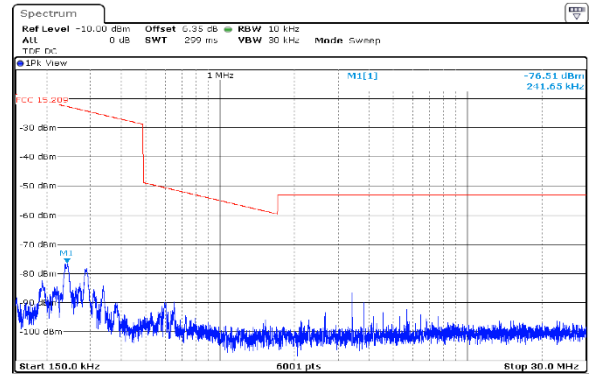
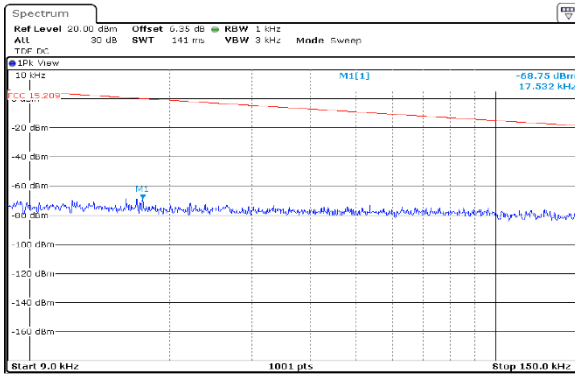
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.5 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #2



**Plot 7.4.6 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #2

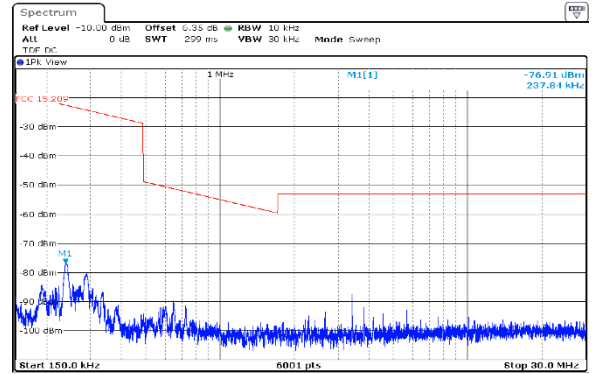
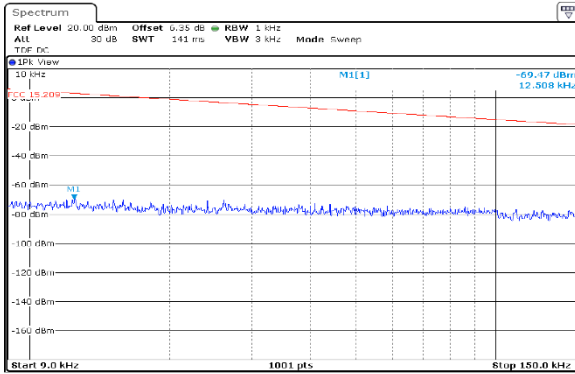




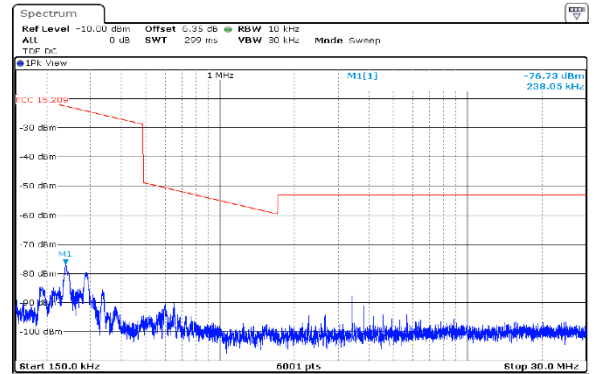
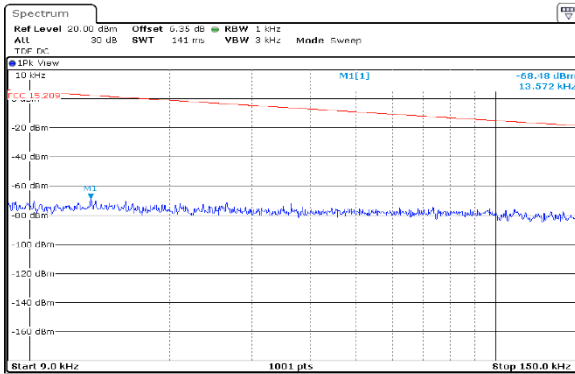
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.7 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3



**Plot 7.4.8 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3

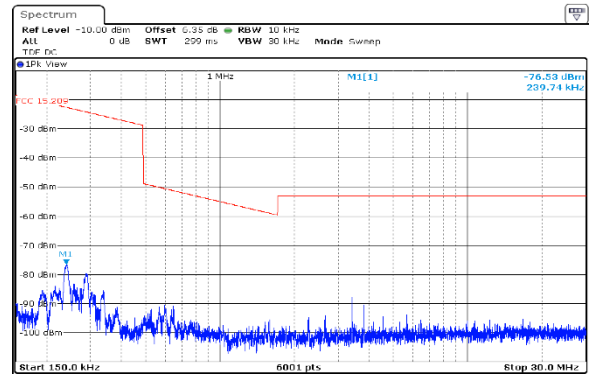
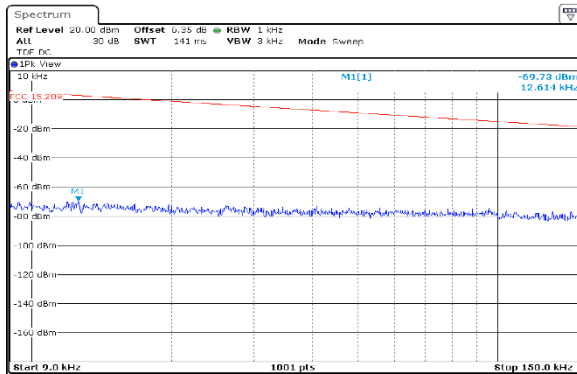




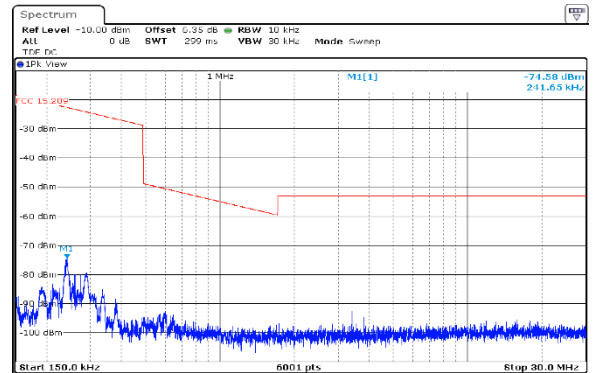
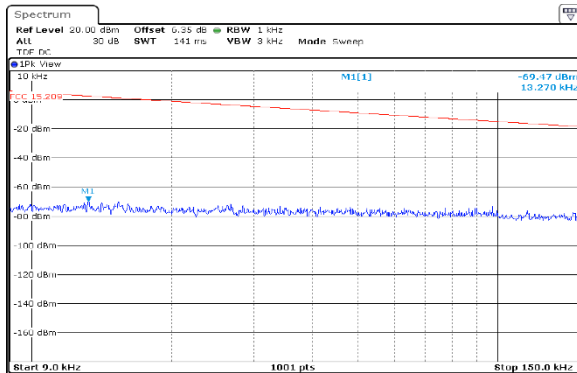
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

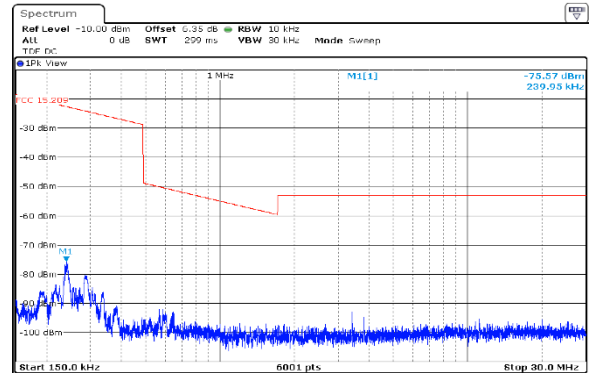
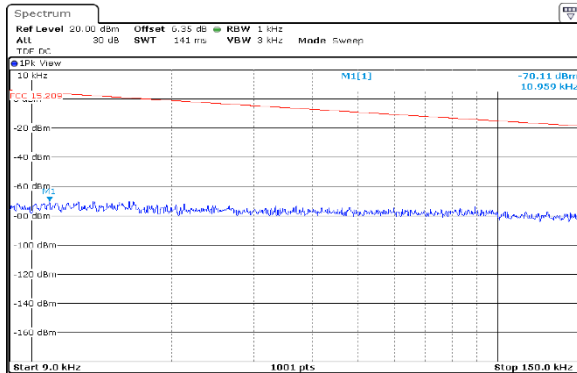
**Plot 7.4.9 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3



**Plot 7.4.10 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4



**Plot 7.4.11 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4

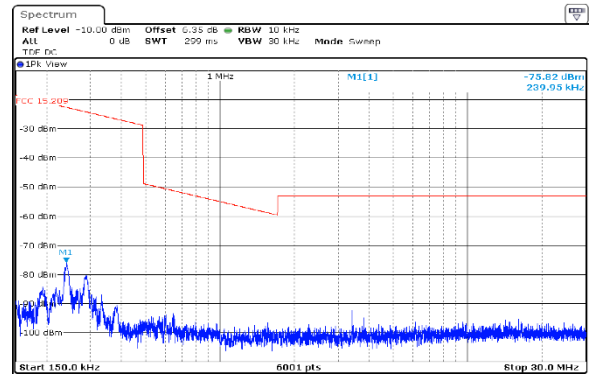
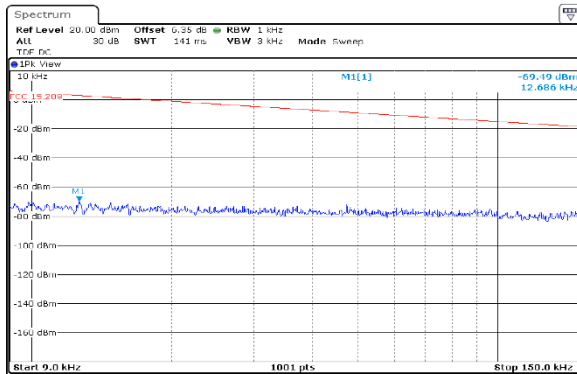




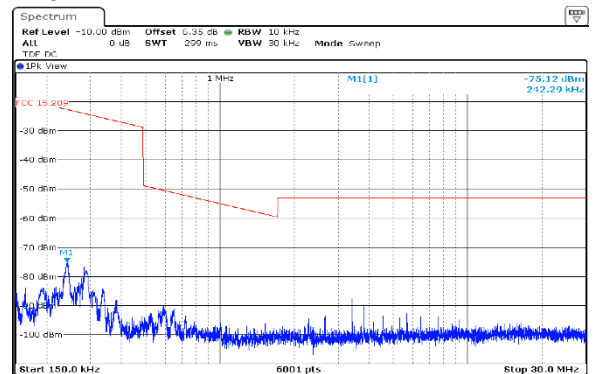
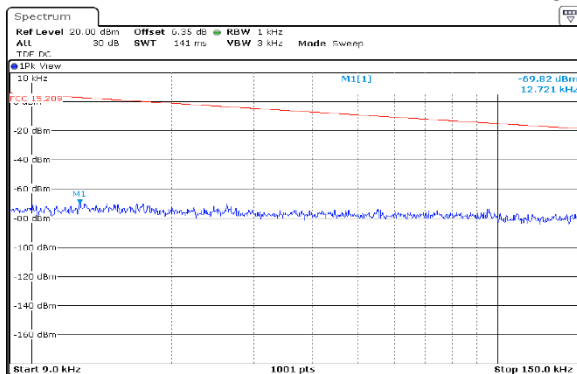
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.12 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4



**Plot 7.4.13 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5

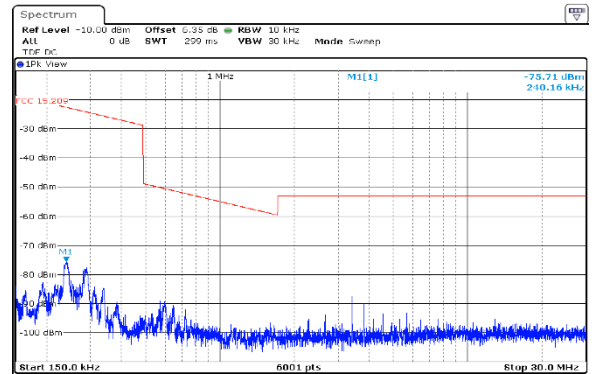
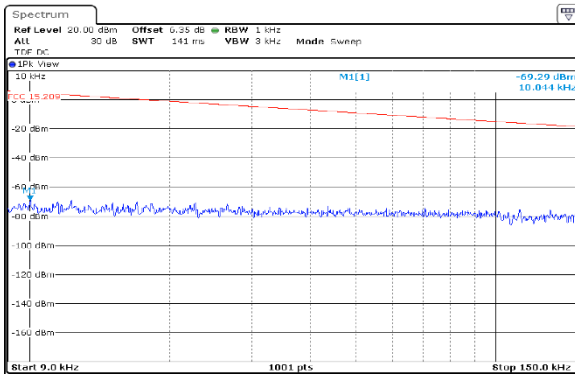




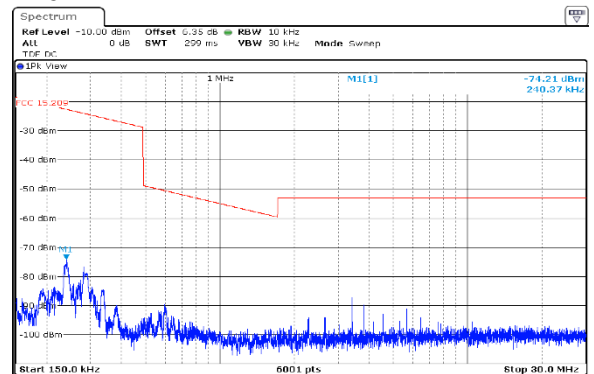
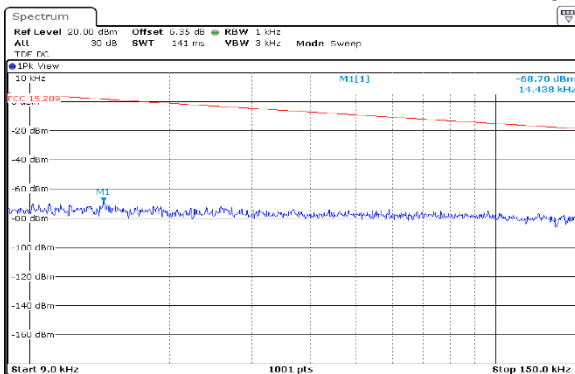
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.14 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5



**Plot 7.4.15 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5

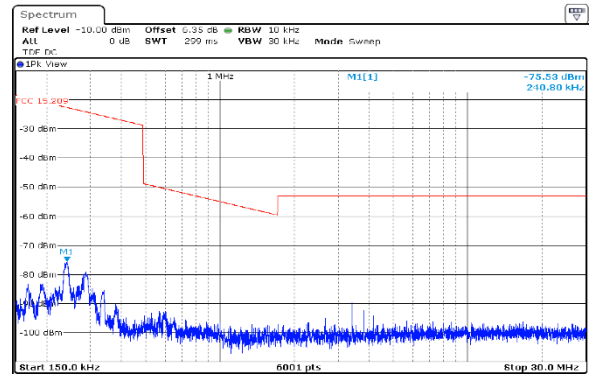
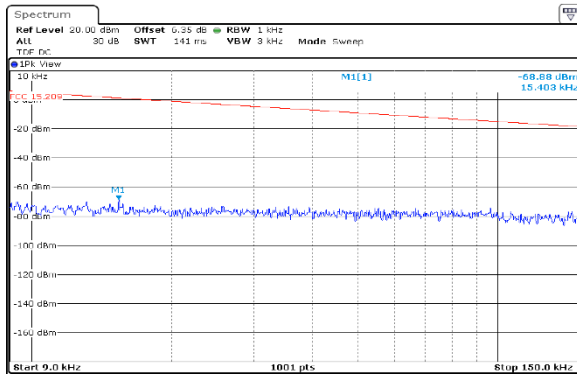




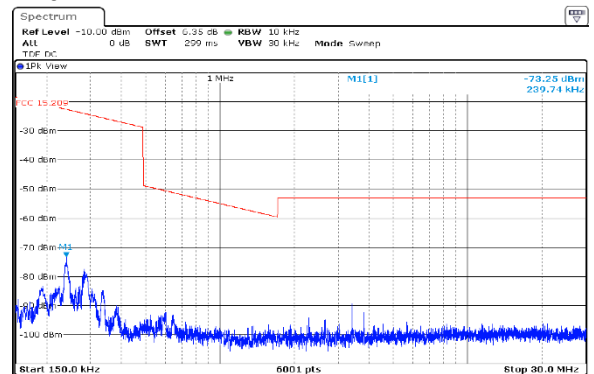
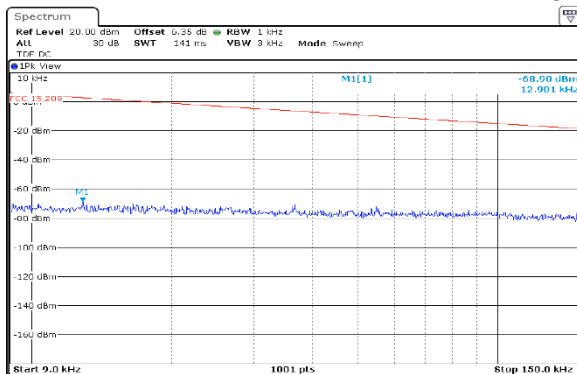
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.16 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6



**Plot 7.4.17 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6

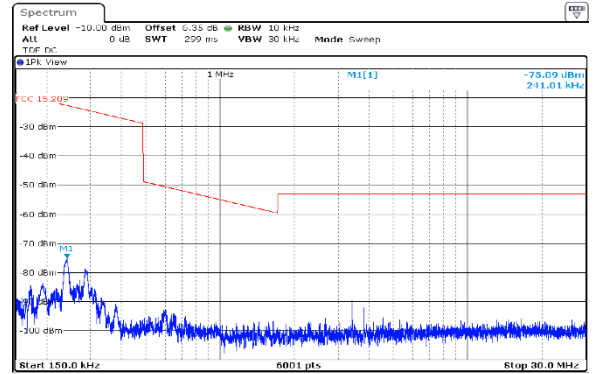
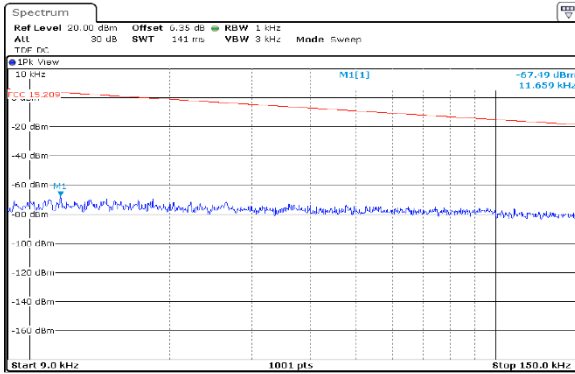




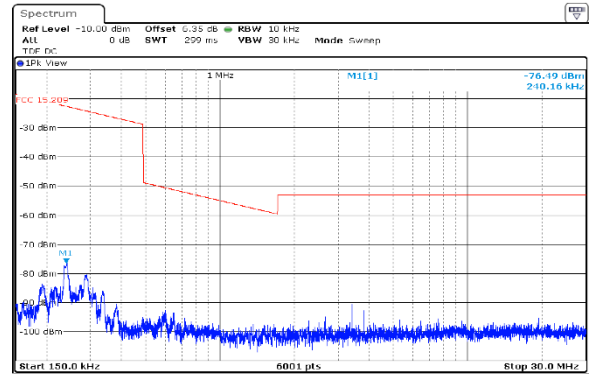
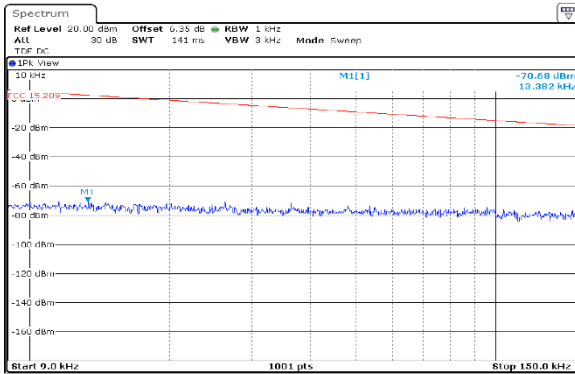
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.18 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6



**Plot 7.4.19 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #7

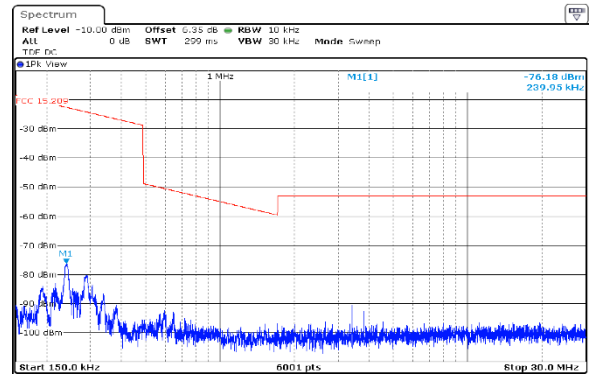
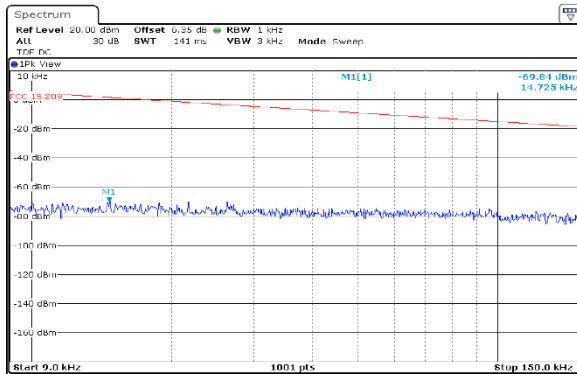




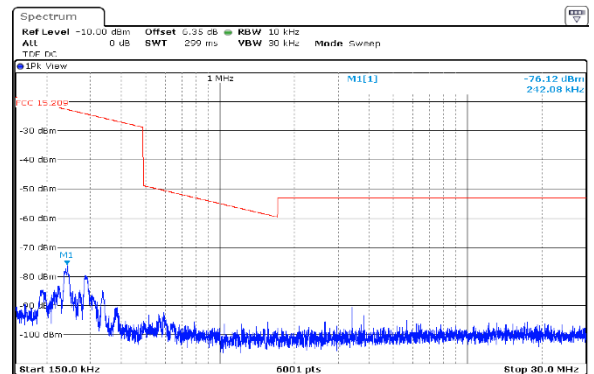
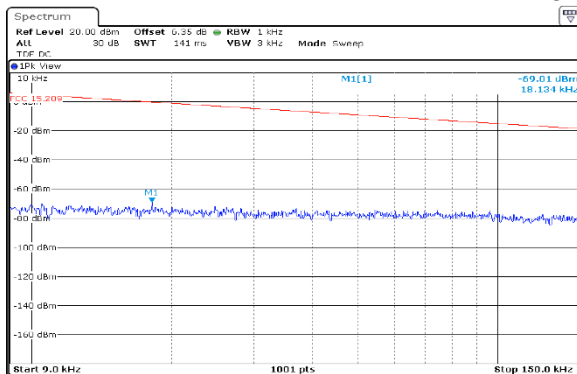
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.20 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #7



**Plot 7.4.21 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #7



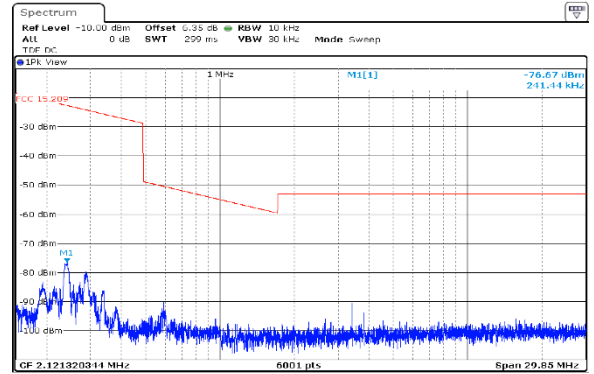
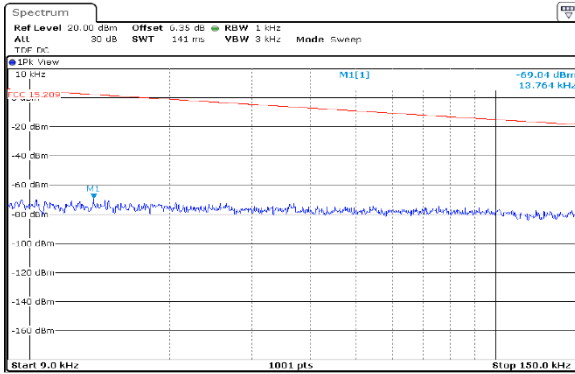




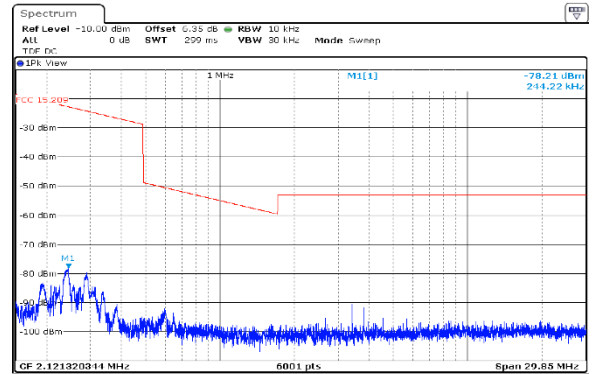
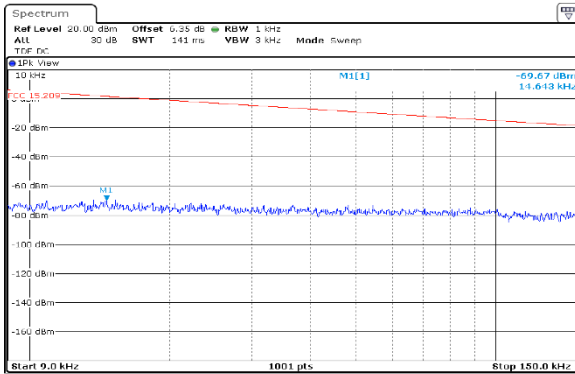
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.22 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #8



**Plot 7.4.23 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #8

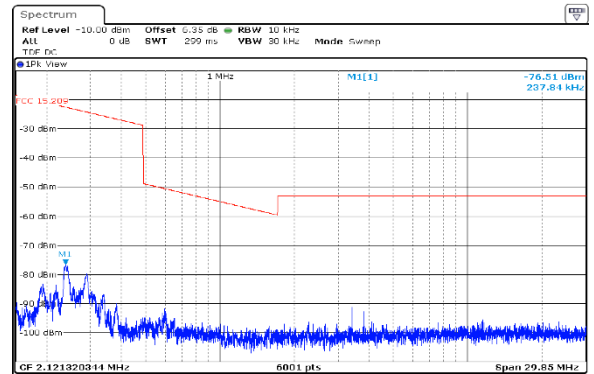
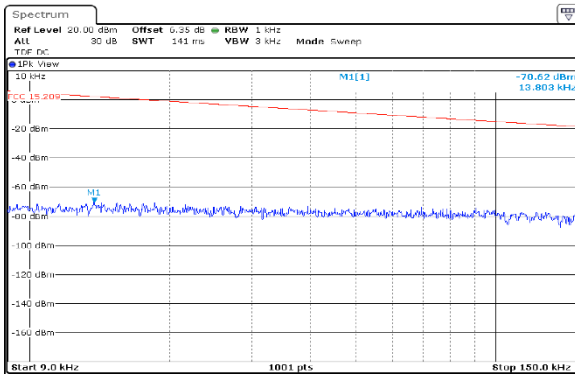




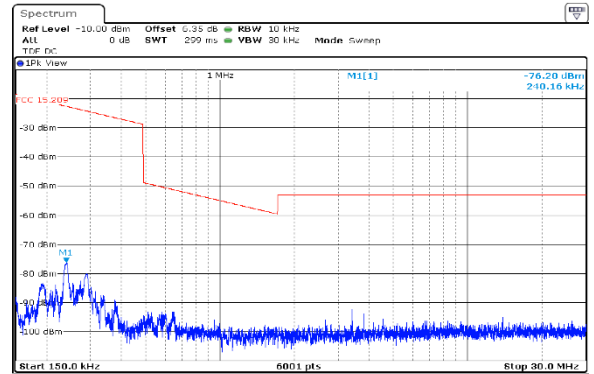
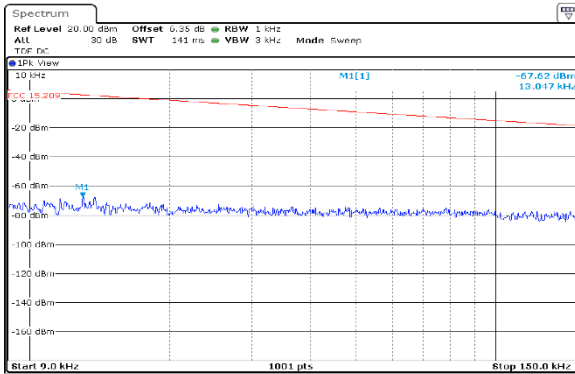
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.24 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 5 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #8



**Plot 7.4.25 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #1

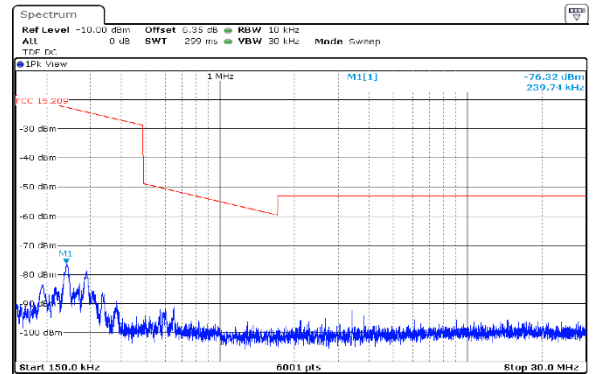
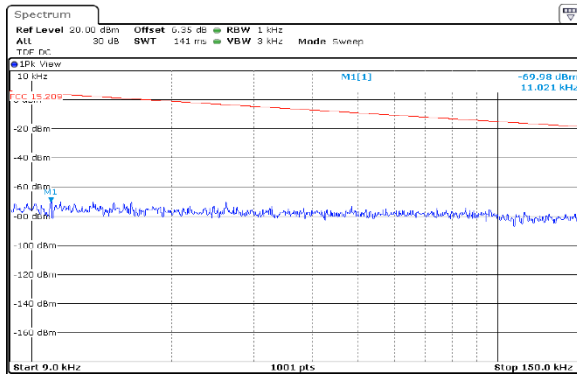




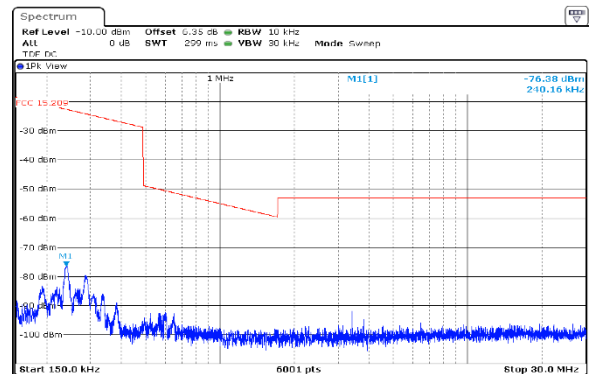
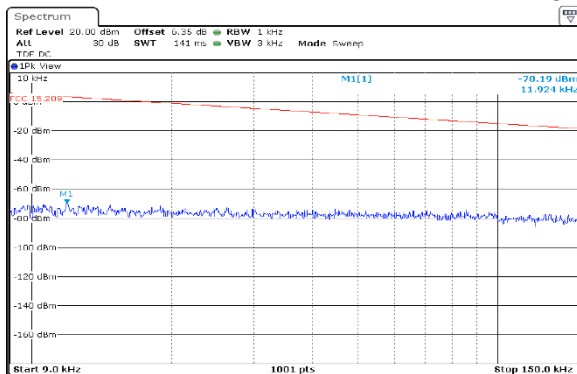
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.26 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
 CHANNEL BANDWIDTH: 10 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #1



**Plot 7.4.27 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
 CHANNEL BANDWIDTH: 10 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #1

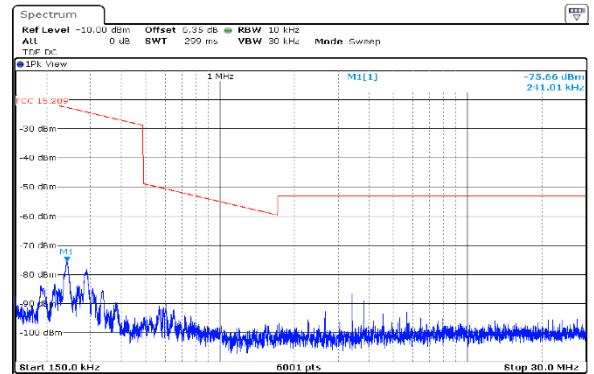
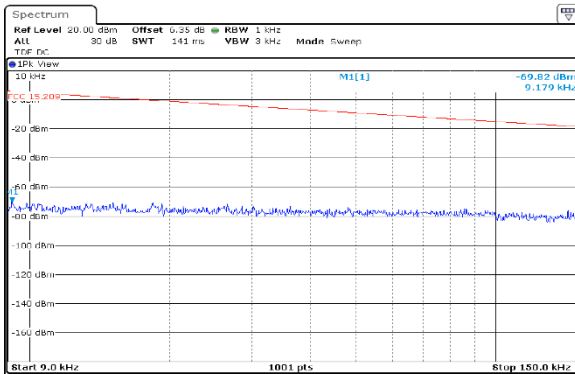




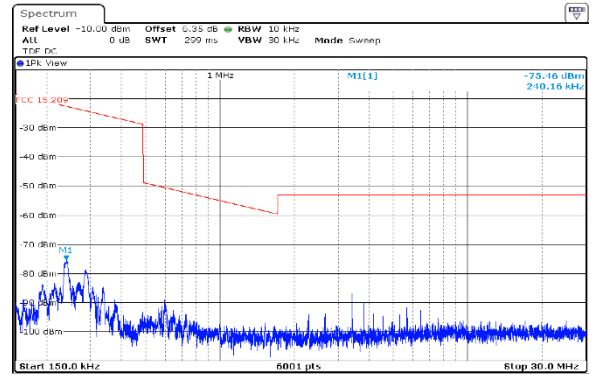
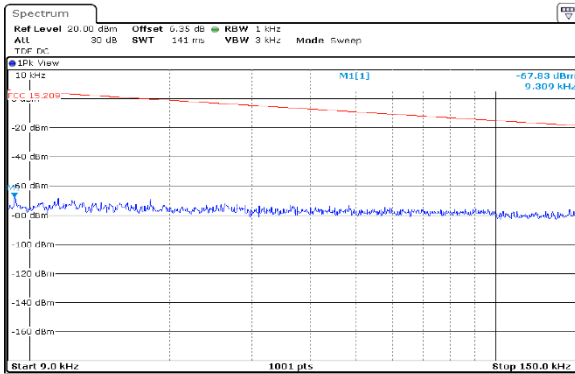
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.28 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #2



**Plot 7.4.29 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #2

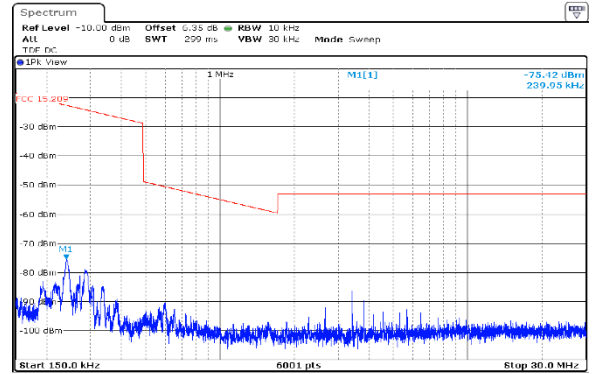
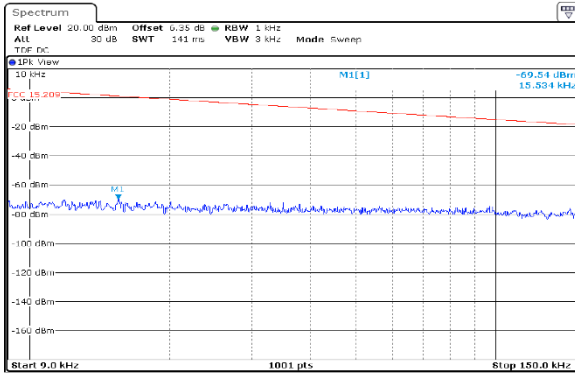




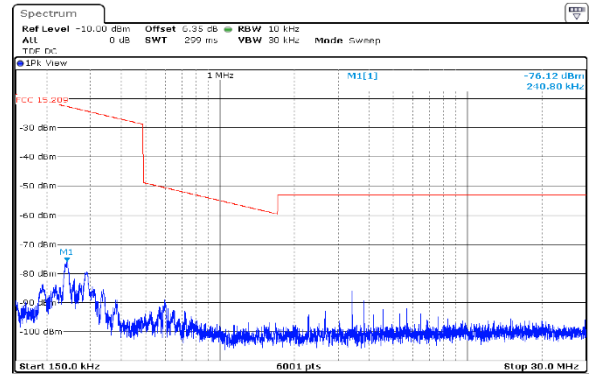
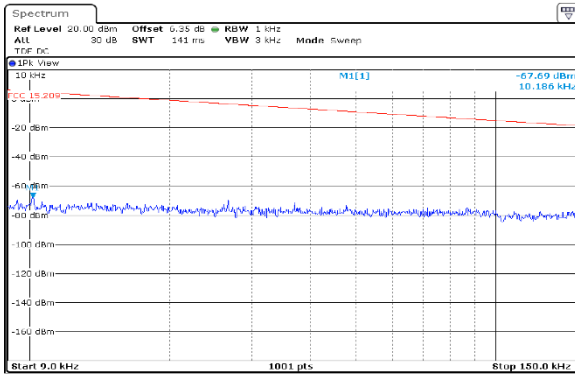
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.30 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #2



**Plot 7.4.31 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3

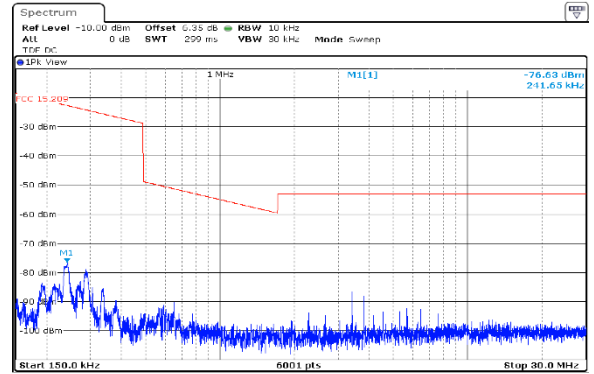
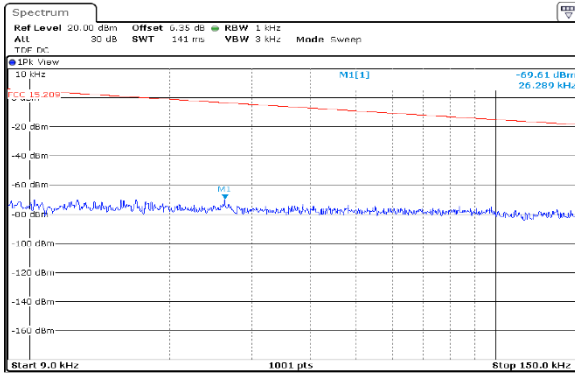




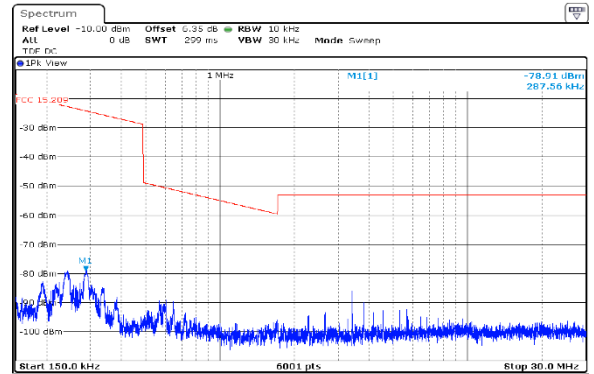
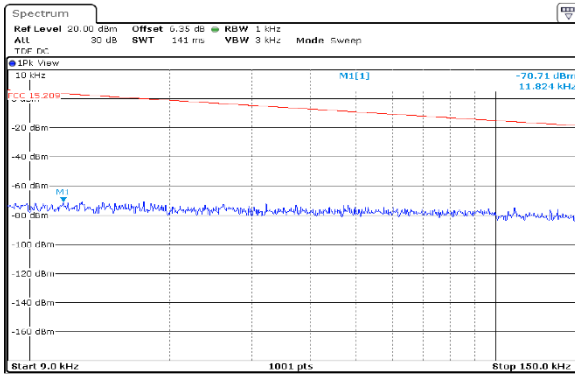
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.32 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3



**Plot 7.4.33 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #3

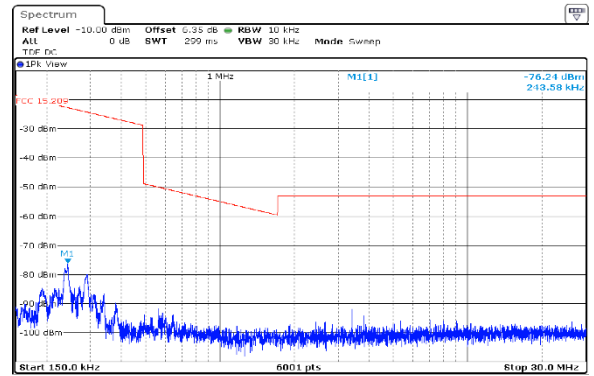
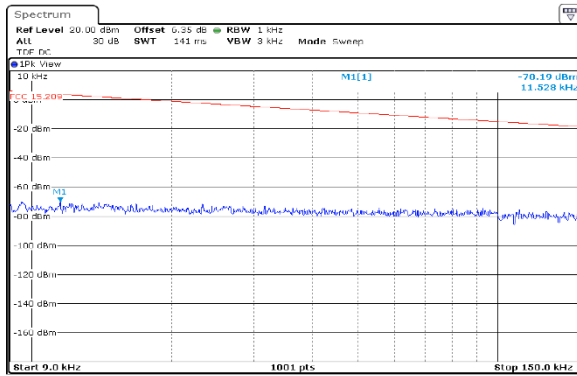




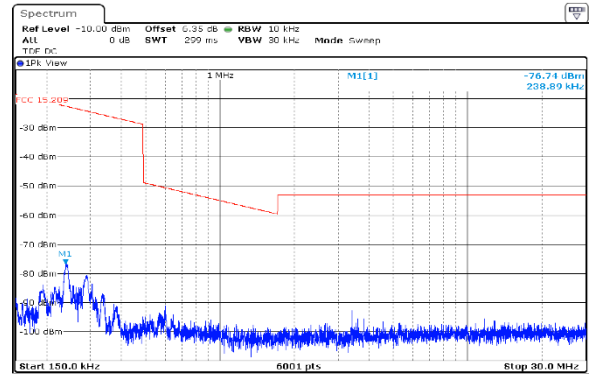
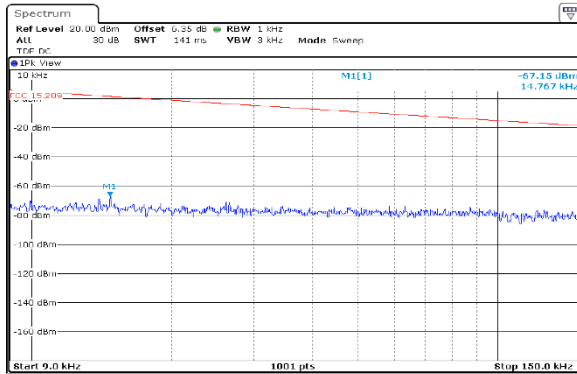
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.34 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4



**Plot 7.4.35 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4

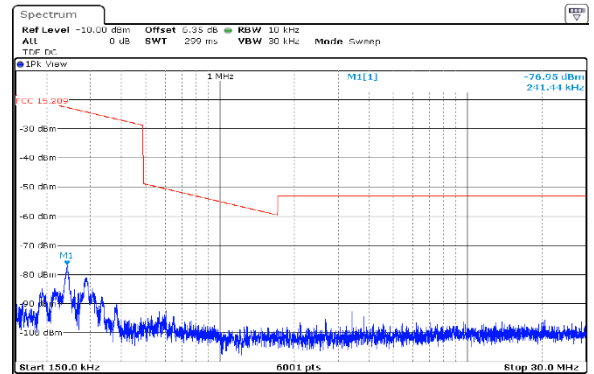
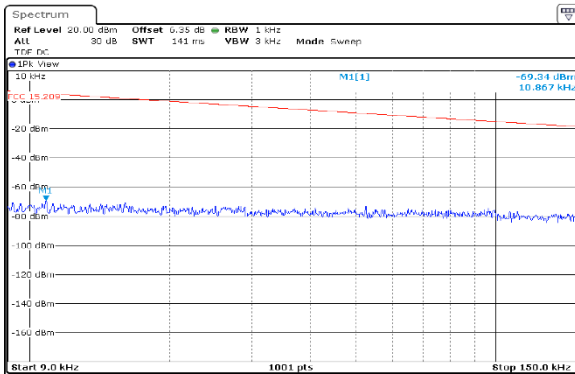




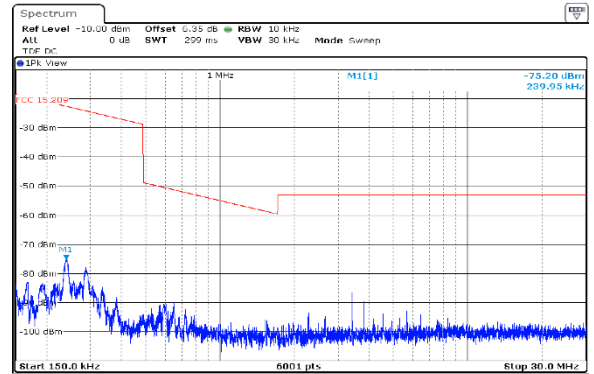
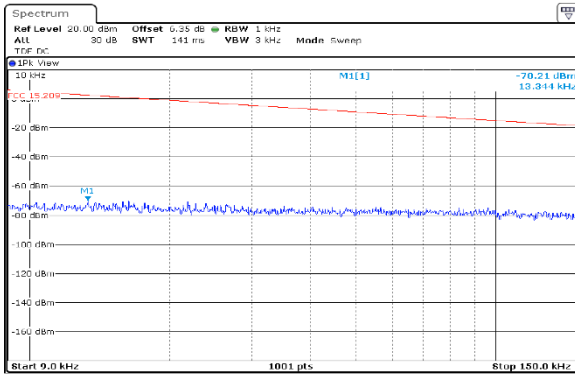
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.36 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #4



**Plot 7.4.37 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5



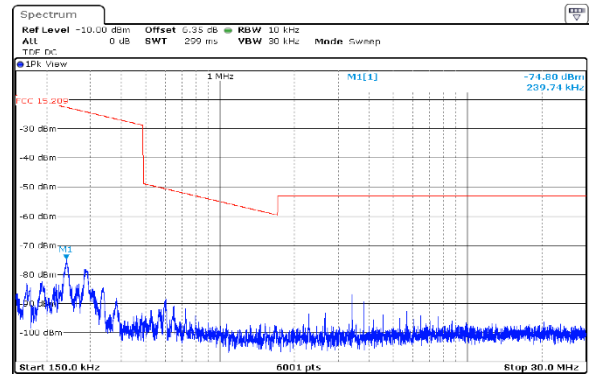
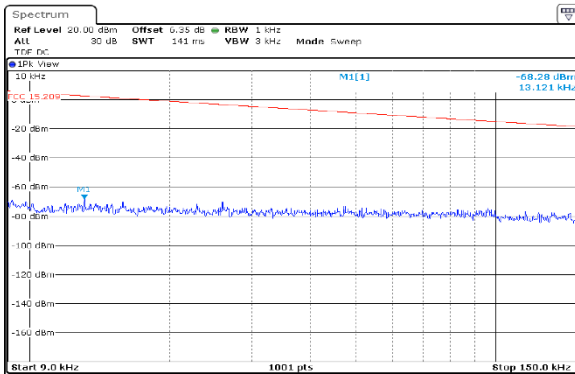




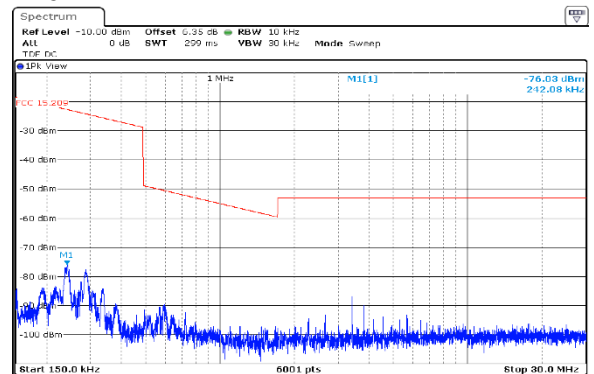
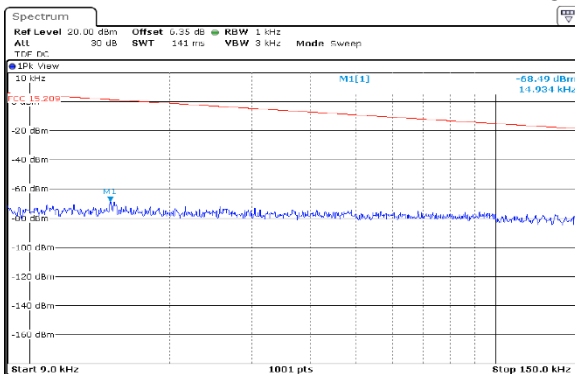
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.38 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5



**Plot 7.4.39 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #5

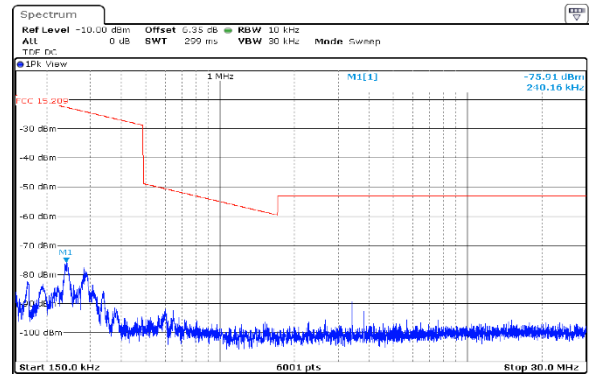
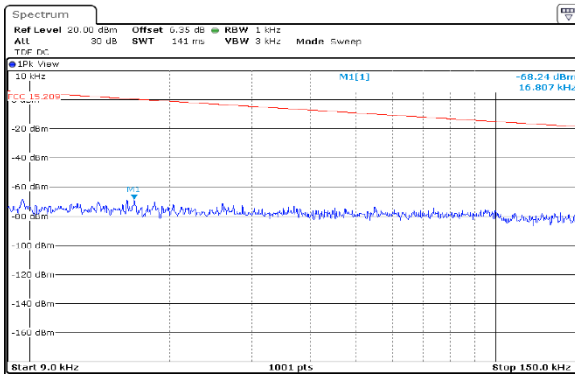




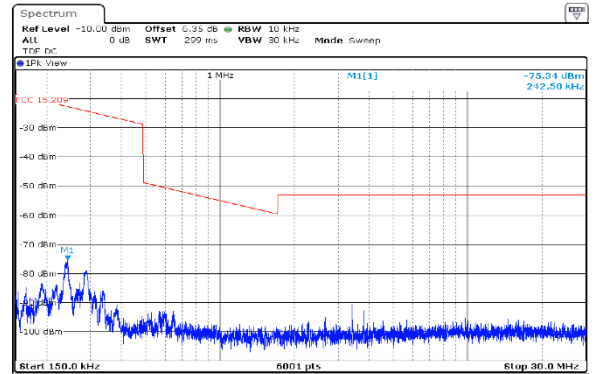
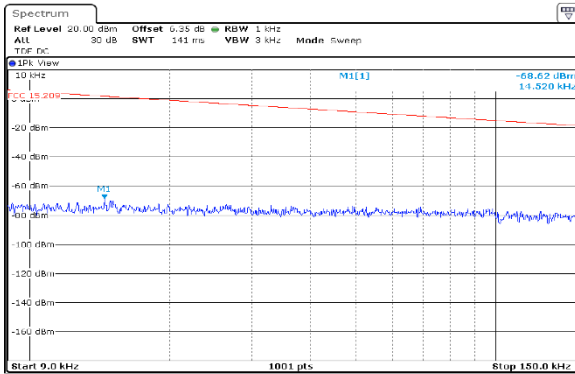
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.40 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6



**Plot 7.4.41 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6

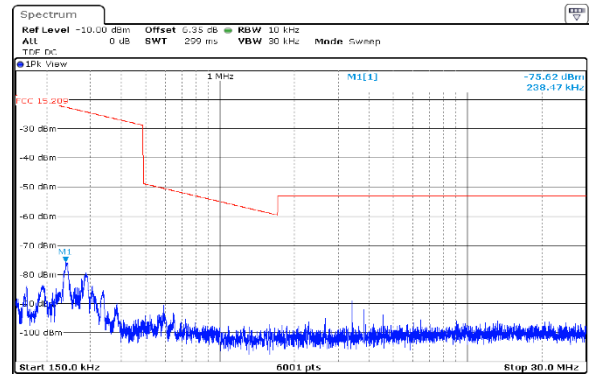
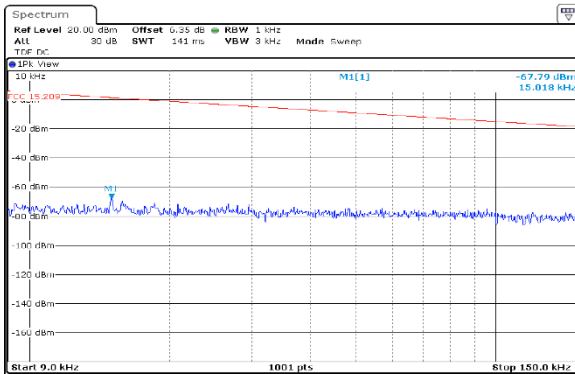




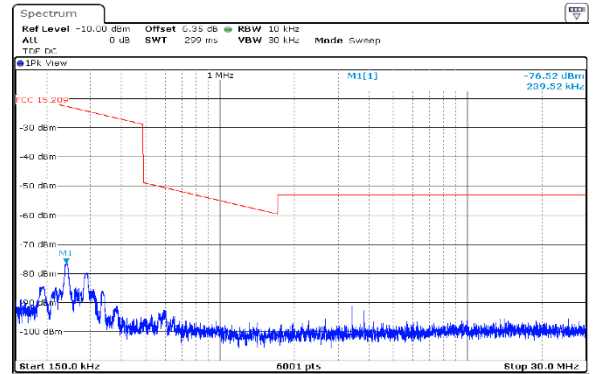
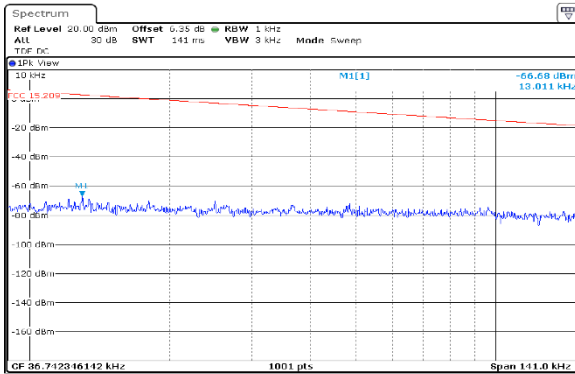
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.42 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #6



**Plot 7.4.43 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency**  
CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #7

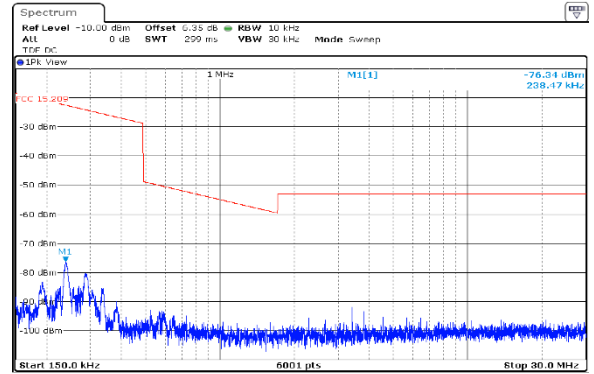
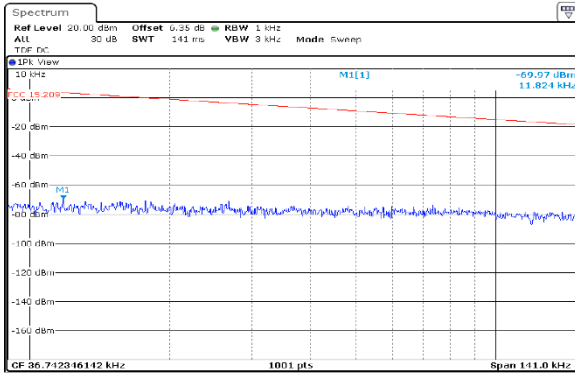




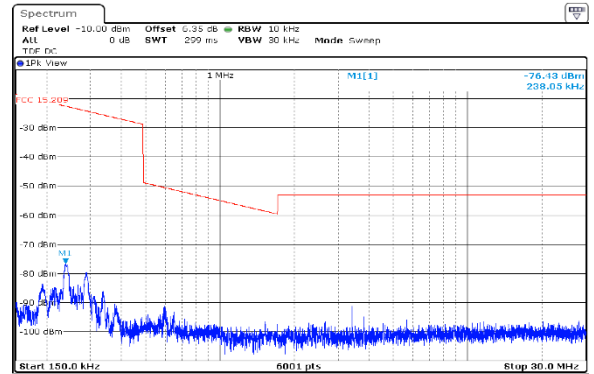
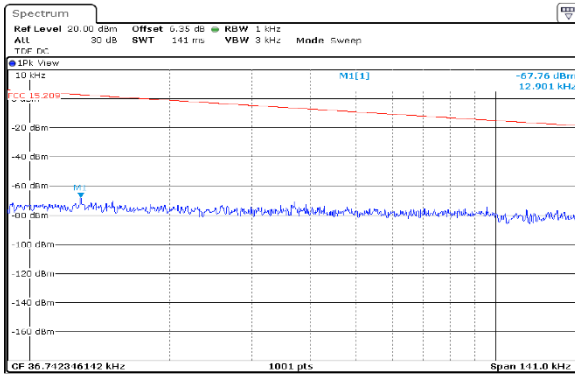
HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

**Plot 7.4.44 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency**  
 CHANNEL BANDWIDTH: 10 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #7



**Plot 7.4.45 Spurious emission measurements in 9 kHz - 30 MHz range at high carrier frequency**  
 CHANNEL BANDWIDTH: 10 MHz  
 CONFIGURATION: ONE BEAM  
 ANTENNA PORT: #7



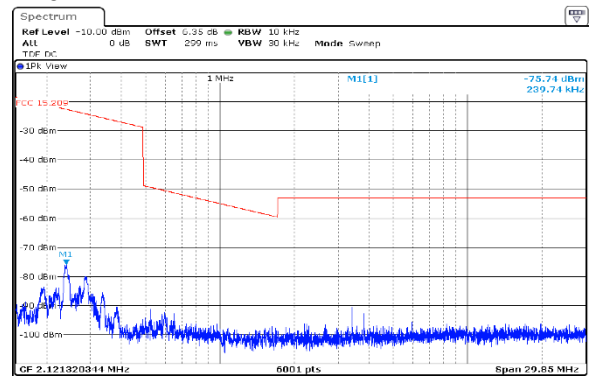
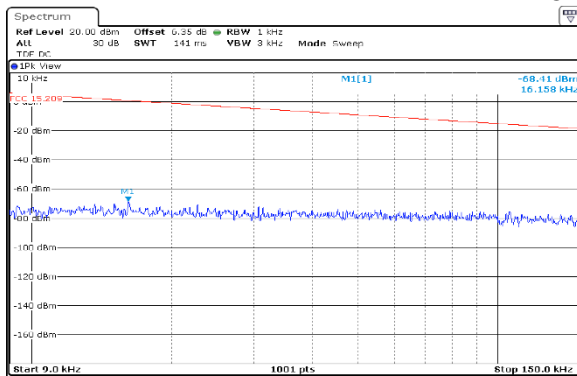


HERMON LABORATORIES

<b>Test specification:</b> Section 15.247(d) / RSS-247 section 5.5, Conducted spurious emissions			
<b>Test procedure:</b> ANSI C63.10 section 11.12.2			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date(s):</b> 28-Jul-19			
<b>Temperature:</b> 24 °C	<b>Relative Humidity:</b> 44 %	<b>Air Pressure:</b> 1004 hPa	<b>Power:</b> 48 VDC
<b>Remarks:</b>			

Plot 7.4.46 Spurious emission measurements in 9 kHz - 30 MHz range at low carrier frequency

CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #8



Plot 7.4.47 Spurious emission measurements in 9 kHz - 30 MHz range at mid carrier frequency

CHANNEL BANDWIDTH: 10 MHz  
CONFIGURATION: ONE BEAM  
ANTENNA PORT: #8

