



HERMON LABORATORIES

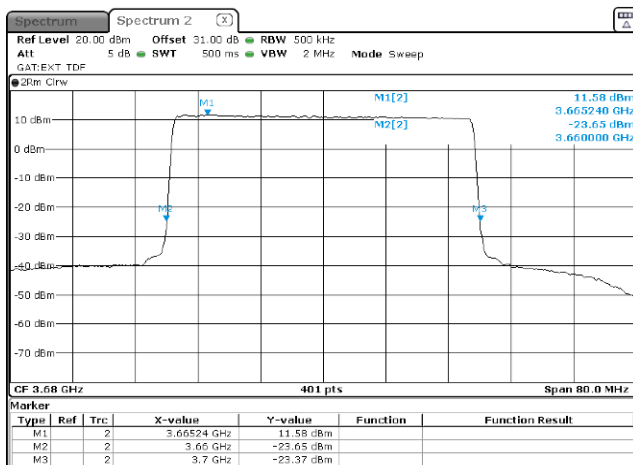
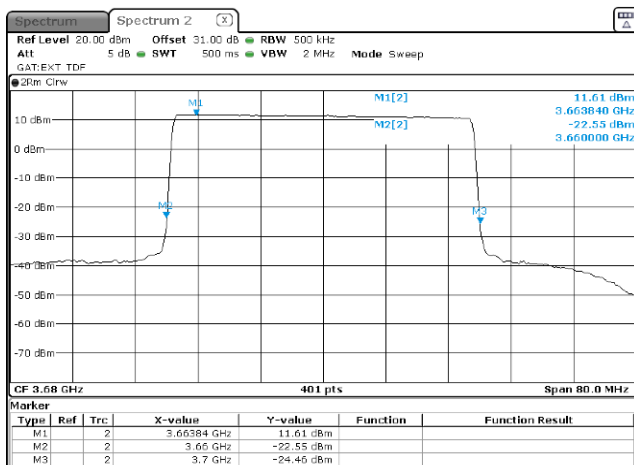
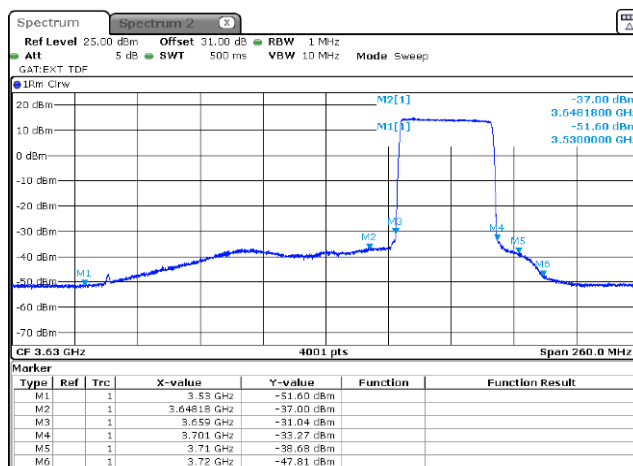
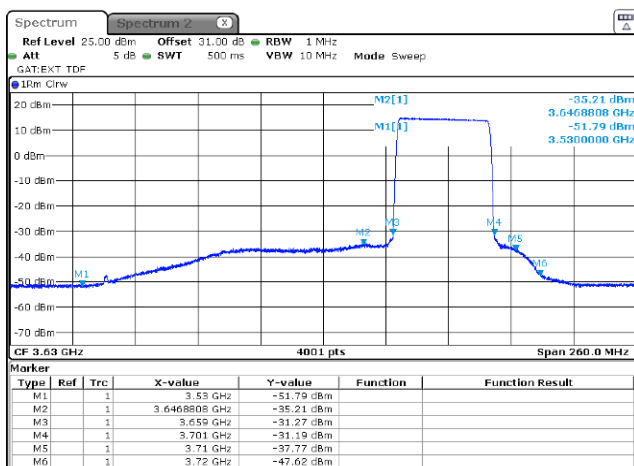
Report ID: AIRRAD_FCC.42554_Rev2
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e), Emission mask			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.2 °C	Relative Humidity: 49 %	Air Pressure: 1010 hPa	Power: 48 VAC
Remarks:			

Plot 7.4.36 Emission outside the fundamental test results in 3500 - 3760 GHz range at high carrier frequency

CHANNEL SPACING:
ANTENNA CHAIN:
Modulation: QPSK

40 MHz
4
Modulation: 256QAM





Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

7.5 Radiated spurious emission measurements

7.5.1 General

This test was performed to measure radiated spurious emissions from the EUT. Specification test limits are given in Table 7.5.1.

Table 7.5.1 Radiated spurious emission test limits

Frequency, MHz	EIRP of spurious, dBm	Equivalent field strength limit @ 3m, dB(μV/m)***
0.09 – below 3530.0	-40.0	55.2
3720.0 – 10th harmonic*	-40.0	55.2

*** - Equivalent field strength limit was calculated from maximum allowed ERP of spurious as follows:
 $E = \sqrt{30 \times P \times 1.64} / r$, where P is ERP in Watts, 1.64 is numeric gain of ideal dipole and r is antenna to EUT distance in meters

7.5.2 Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized and the performance check was conducted.

7.5.2.2 The specified frequency range was investigated with antenna connected to spectrum analyzer. To find maximum radiation the turntable was rotated 360° and the measuring antenna was rotated around its vertical axis.

7.5.2.3 The worst test results (the lowest margins) were recorded in Table 7.5.2 and shown in the associated plots.

7.5.3 Test procedure for spurious emission field strength measurements above 30 MHz

7.5.3.1 The EUT was set up as shown in Figure 7.5.2, energized and the performance check was conducted.

7.5.3.2 The specified frequency range was investigated with antenna connected to spectrum analyzer. To find maximum radiation the turntable was rotated 360° and the measuring antenna height was swept from 1 to 4 m in both, vertical and horizontal, polarizations.

7.5.3.3 The worst test results (the lowest margins) were recorded in Table 7.5.2 and shown in the associated plots.

Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Figure 7.5.1 Setup for spurious emission field strength measurements in 9 kHz to 30 MHz band

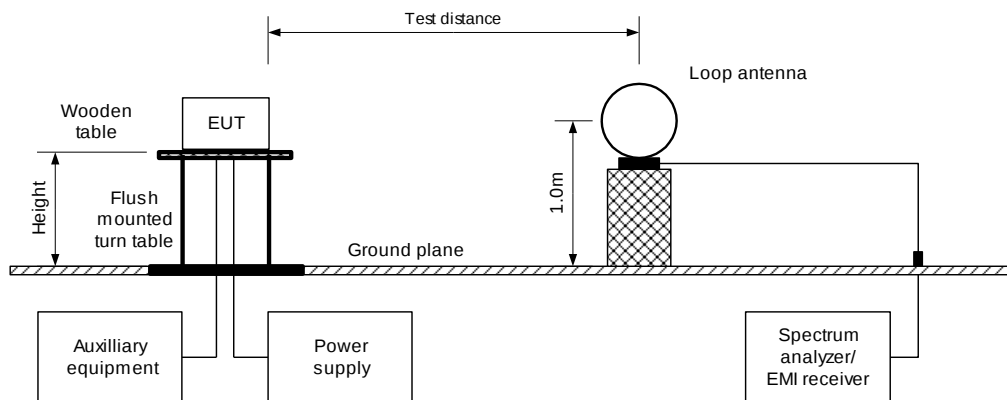
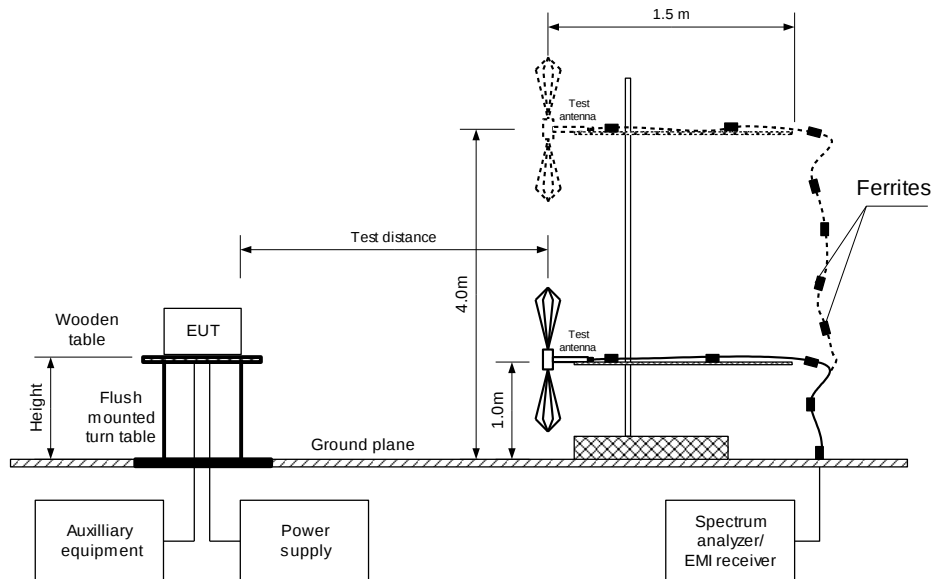


Figure 7.5.2 Setup for spurious emission field strength measurements above 30 MHz





Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Table 7.5.2 Spurious emission field strength test results

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz
 TEST DISTANCE: 3 m
 TEST SITE: Semi anechoic chamber
 INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz
 DETECTOR USED: Peak
 VIDEO BANDWIDTH: > Resolution bandwidth
 TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)
 Biconilog (30 MHz – 1000 MHz)
 MODULATION: 256 QAM
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	Field strength, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*	RBW, kHz	Antenna polarization	Antenna height, m	Turn-table position**, degrees
320	43.1	55.20	-12.1	100	Horizontal	1.0	45
360	51.9	55.20	-3.3	100	Horizontal	1.0	37
400	45.8	55.20	-9.4	100	Vertical	1.0	180
500	53.2	55.20	-2.0	100	Vertical	1.0	178

*- Margin = Field strength of spurious – calculated field strength limit.

** - EUT front panel refers to 0 degrees position of turntable.



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Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Table 7.5.3 Field strength of spurious emissions above 1 GHz within restricted bands

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz
 TEST DISTANCE: 3 m
 TEST SITE: Semi anechoic chamber
 DETECTOR USED: Peak
 VIDEO BANDWIDTH: > Resolution bandwidth
 TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)
 MODULATION: 256 QAM
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum

Frequency, MHz	Antenna		Azimuth, degrees*	Peak field strength(VBW=3 MHz)			Average field strength(VBW=10 Hz)			Verdict
	Polarization	Height, m		Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB**	Measured, dB(μV/m)	Limit, dB(μV/m)	Margin, dB***	
Low carrier frequency										
1029.5	Vertical	1.0	46	41.6	75.2	-33.6	41.6	55.2	-13.6	Pass
Mid carrier frequency										
1069.7	Vertical	1.0	45	39.8	75.2	-35.4	39.8	55.2	-15.4	Pass
High carrier frequency										
1029.5	Vertical	1.0	53	41.5	75.2	-33.7	41.5	55.2	-13.7	Pass
2030.8	Vertical	1.0	46	39.7	75.2	-32.5	39.7	55.2	-15.5	Pass

Reference numbers of test equipment used

HL 5902	HL 0446	HL 4372	HL 0661	HL 3903	HL 4280	HL 4360	HL 4933
HL 4956	HL 5112	HL 5288					

Full description is given in Appendix A.



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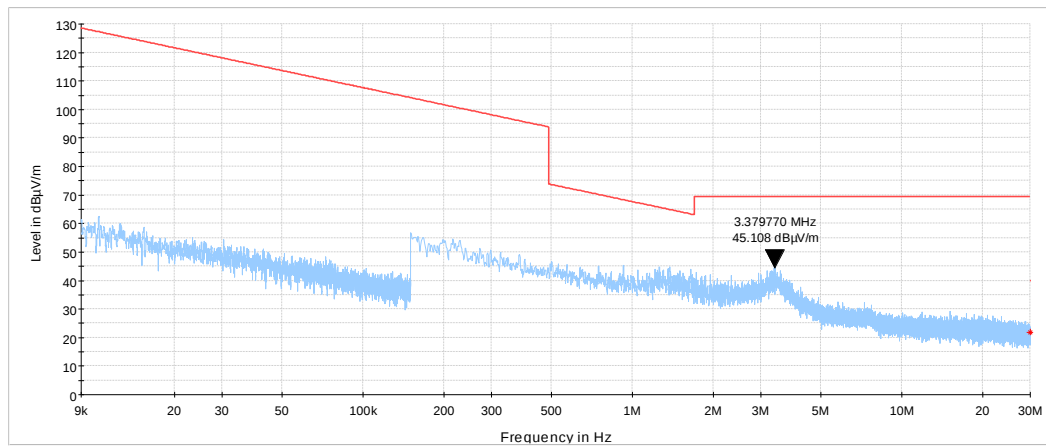
Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(2), Radiated spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

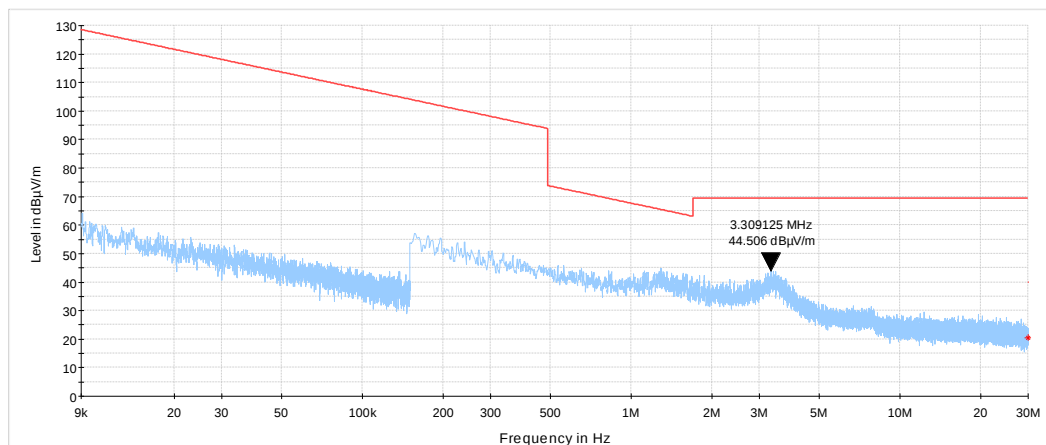
Plot 7.5.1 Radiated emission measurements in 9 kHz - 30 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
TEST DISTANCE: 3 m



Plot 7.5.2 Radiated emission measurements in 9 kHz - 30 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
TEST DISTANCE: 3 m





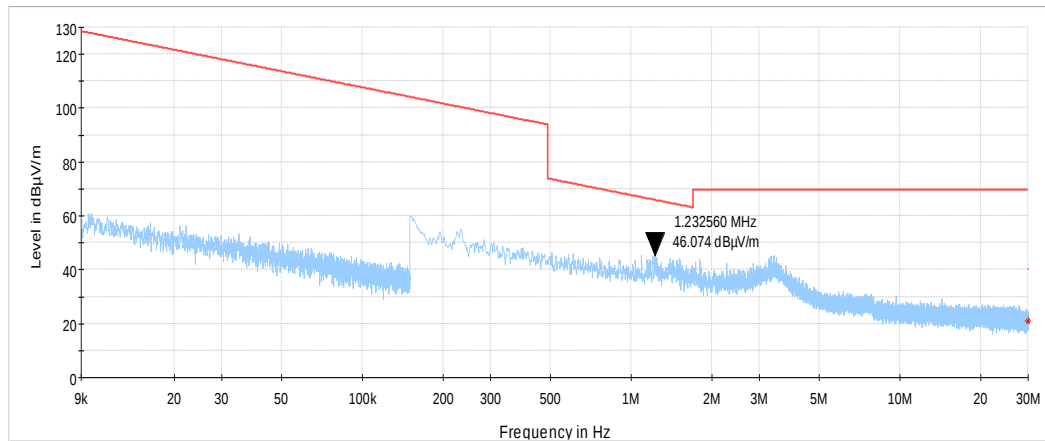
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Report ID: AIRRAD_FCC.42554_Rev2
Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(2), Radiated spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.5.3 Radiated emission measurements in 9 kHz - 30 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
TEST DISTANCE: 3 m





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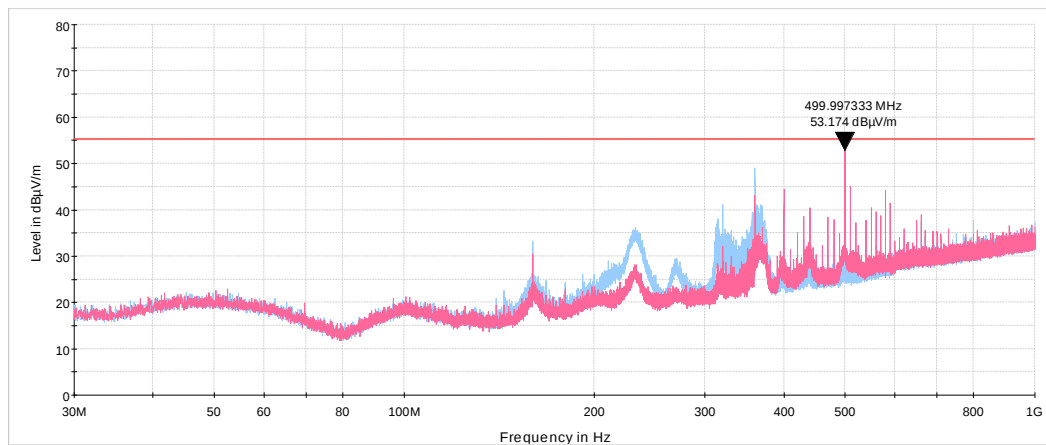
Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

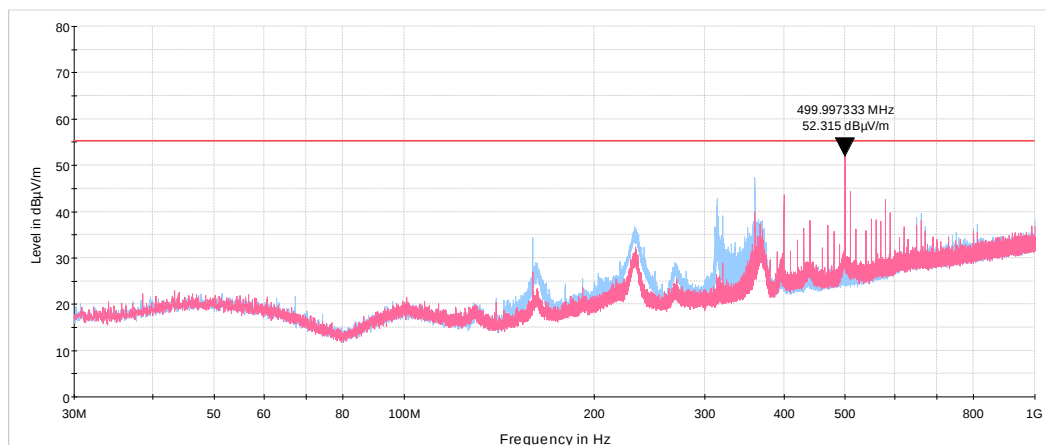
Plot 7.5.4 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.5 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m





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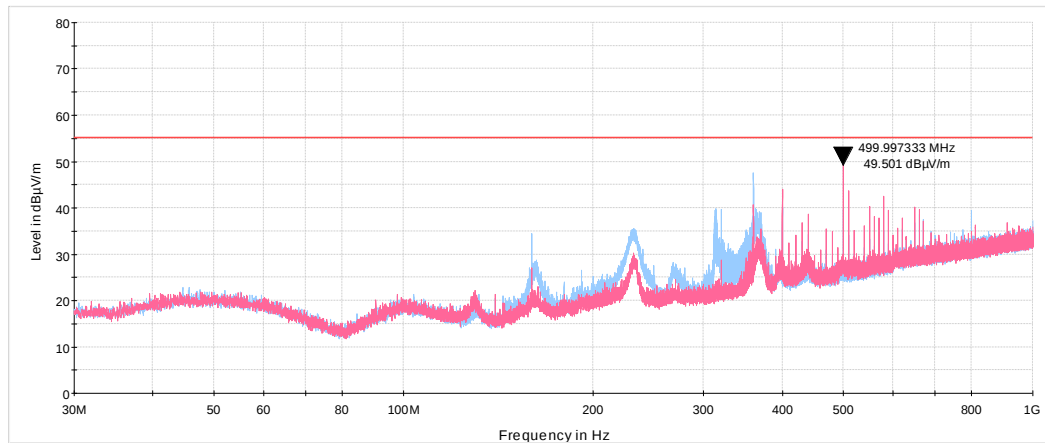
Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

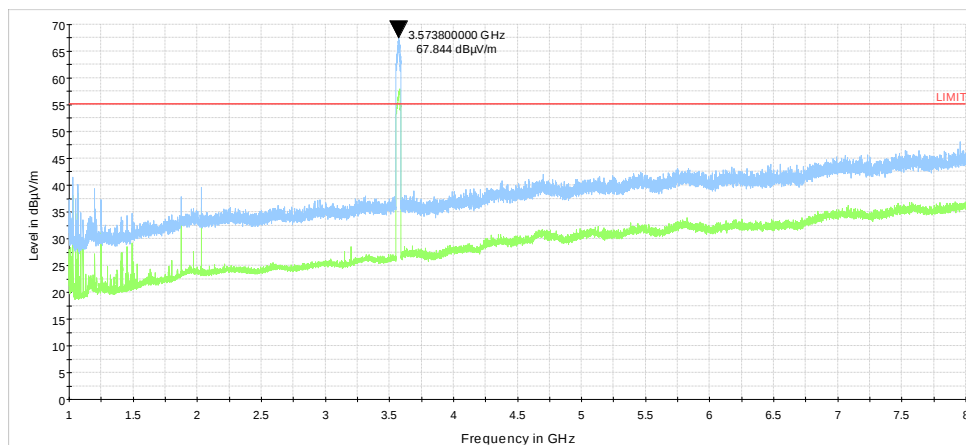
Plot 7.5.6 Radiated emission measurements in 30 - 1000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.7 Radiated emission measurements in 1000 – 8000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Note: 3573.8 MHz is low fundamental frequency



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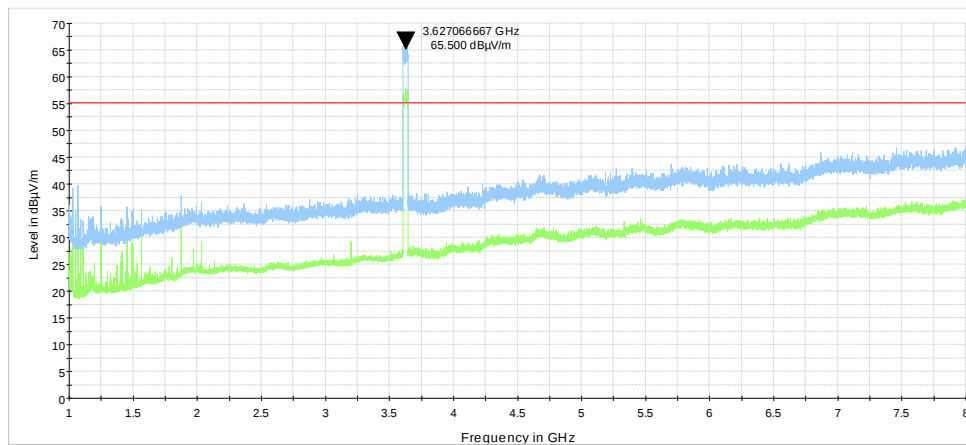
Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.5.8 Radiated emission measurements in 1000 – 8000 MHz range

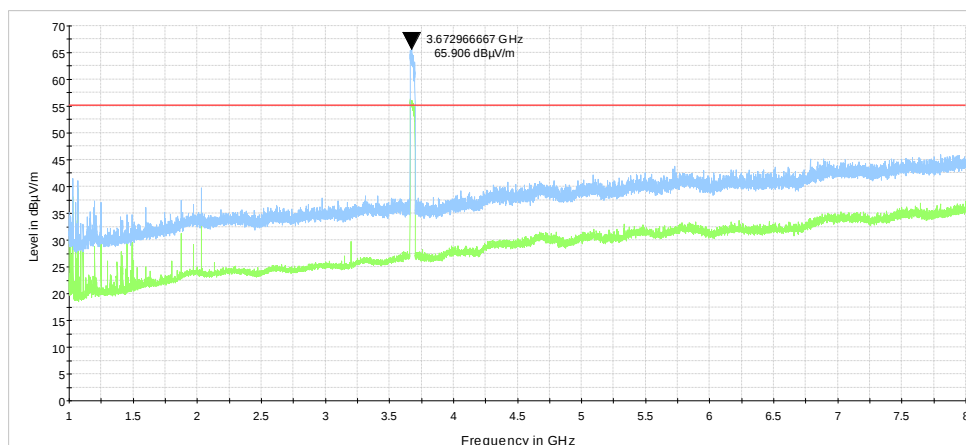
TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Note: 3627.06 MHz is mid fundamental frequency

Plot 7.5.9 Radiated emission measurements in 1000 – 8000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



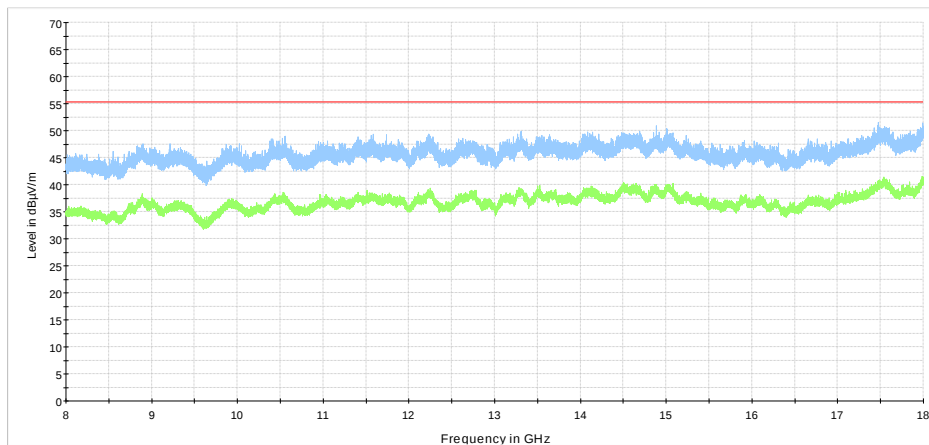
Note: 3672.9 MHz is high fundamental frequency



Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

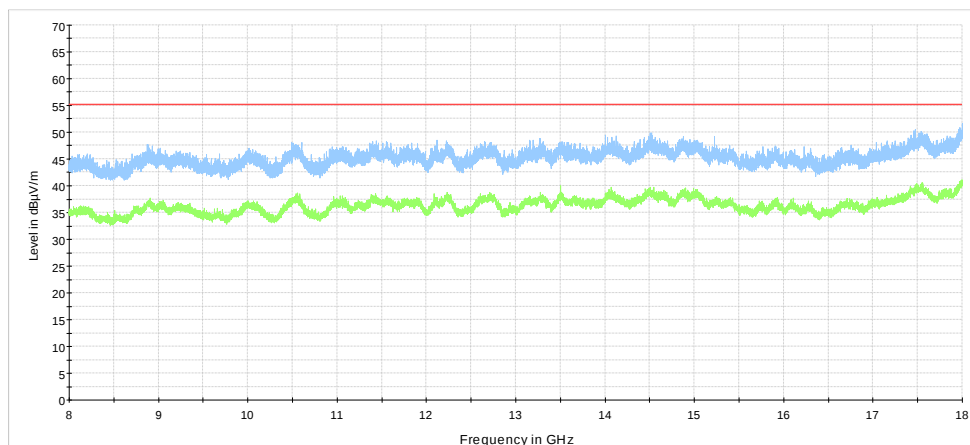
Plot 7.5.10 Radiated emission measurements in 8000 – 18000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.11 Radiated emission measurements in 8000 – 18000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Mid
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m

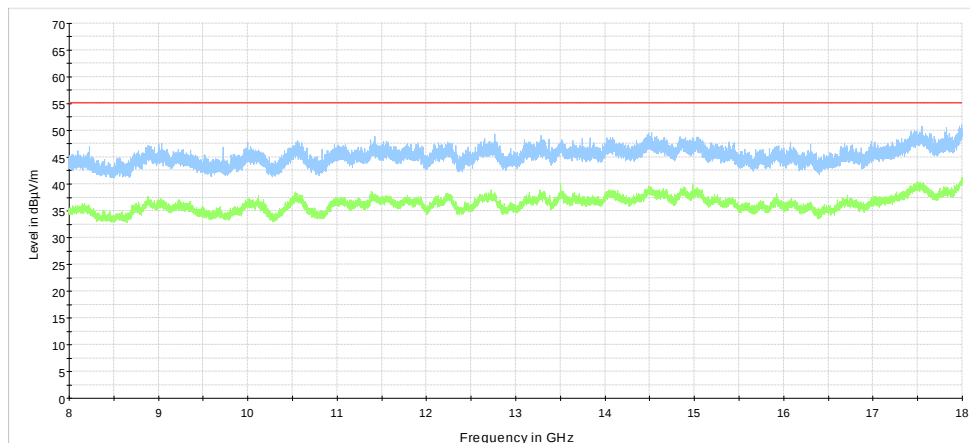




Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

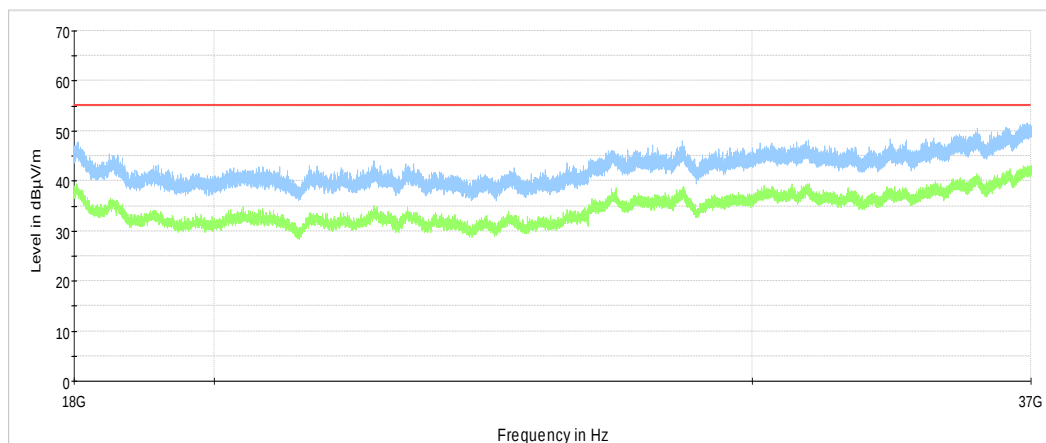
Plot 7.5.12 Radiated emission measurements in 8000 – 18000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: High
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m



Plot 7.5.13 Radiated emission measurements in 18000 –37000 MHz range

TEST SITE: Semi anechoic chamber
CARRIER FREQUENCY: Low
ANTENNA POLARIZATION: Vertical and Horizontal
TEST DISTANCE: 3 m

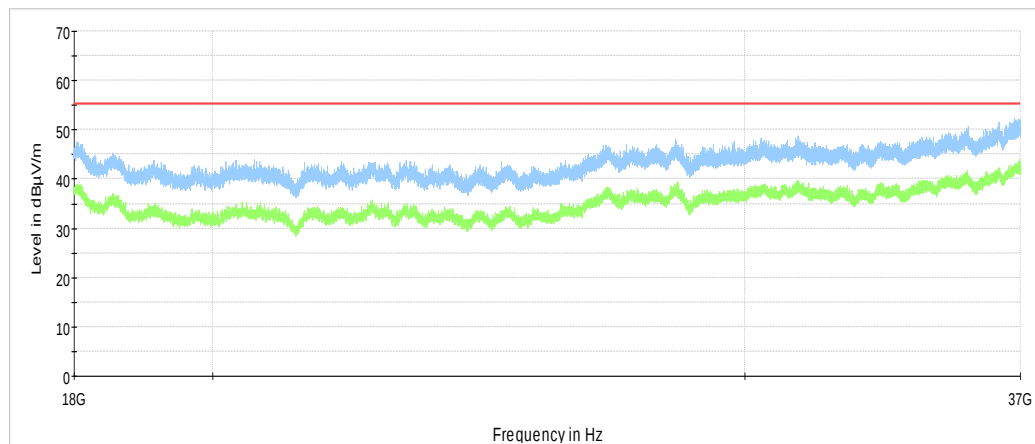




Test specification: Section 96.41(e)(2), Radiated spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21			
Temperature: 24 °C	Relative Humidity: 52 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

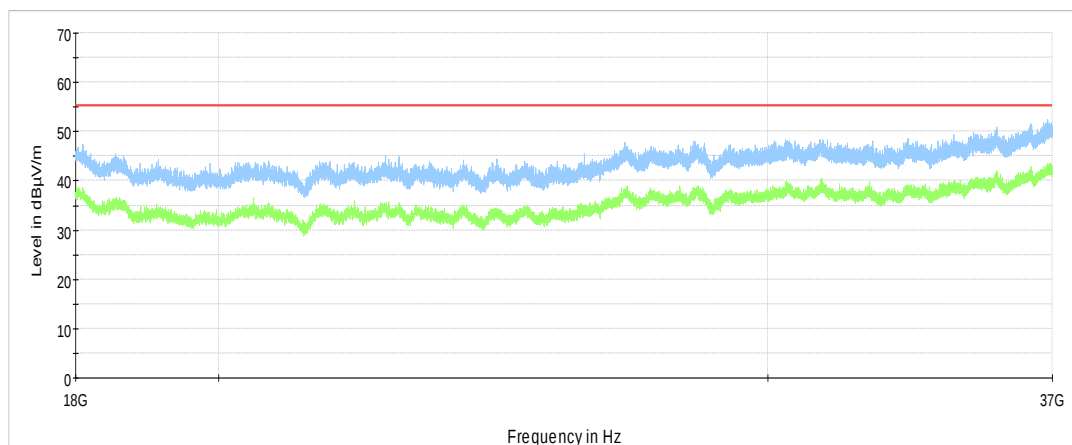
Plot 7.5.14 Radiated emission measurements in 18000 –37000 MHz range

TEST SITE:	Semi anechoic chamber
CARRIER FREQUENCY:	Mid
ANTENNA POLARIZATION:	Vertical and Horizontal
TEST DISTANCE:	3 m



Plot 7.5.15 Radiated emission measurements in 18000 –37000 MHz range

TEST SITE:	Semi anechoic chamber
CARRIER FREQUENCY:	High
ANTENNA POLARIZATION:	Vertical and Horizontal
TEST DISTANCE:	3 m





Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

7.6 Spurious emissions at RF antenna connector test

7.6.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.6.1.

Table 7.6.1 Spurious emission limits

Frequency, MHz	Conducted power of spurious, dBm/MHz
0.009– below 3530.0	-40.0
3720.0 – 10th harmonic*	-40.0

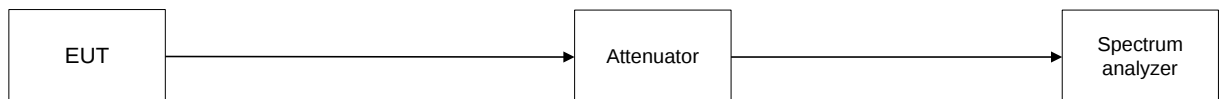
7.6.2 Test procedure

7.6.2.1 The EUT was set up as shown in Figure 7.6.1, energized and its proper operation was checked.

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

7.6.2.3 The spurious emission was measured with spectrum analyzer as provided in Table 7.6.2 and associated plots.

Figure 7.6.1 Spurious emission test setup





Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Table 7.6.2 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz
 INVESTIGATED FREQUENCY RANGE: 0.009 – 37000 MHz
 DETECTOR USED: Peak
 VIDEO BANDWIDTH: ≥ Resolution bandwidth
 MODULATION: QPSK
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 NUMBER ANTENNA PORTS: N = 4

NUMBER ANTENNA PORTS: N = 4

Frequency, MHz	Average power (RMS)				Verdict
	Maximun emission per chain, dBm**	Total emission, dBm***	Limit, dBm	Margin, dB*	
Channel bandwidth 10 MHz					
Low carrier frequency 3555 MHz					
3058.87	-53.59	-47.59	-40.00	-7.59	Pass
Mid carrier frequency 3625 MHz					
3073.32	-53.37	-47.37	-40.00	-7.37	Pass
High carrier frequency 3695 MHz					
3099.05	-53.52	-47.52	-40.00	-7.52	Pass
Channel bandwidth 20 MHz					
Low carrier frequency 3560 MHz					
3067.03	-53.43	-47.43	40.00	-7.43	Pass
Mid carrier frequency 3625 MHz					
3024.91	-53.52	-47.52	-40.00	-7.52	Pass
High carrier frequency 3690 MHz					
3730.08	-50.69	-44.69	-40.00	-4.69	Pass
Channel bandwidth 40 MHz					
Low carrier frequency 3570 MHz					
3529.82	-54.99	-48.99	-40.00	-8.99	Pass
Mid carrier frequency 3625 MHz					
3720.57	-51.89	-45.89	-40.00	-5.89	Pass
High carrier frequency 3680 MHz					
3720.11	-46.51	-40.51	-40.00	-0.51	Pass

*- Margin = Total spurious emission - specification limit.

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

*** - SA Reading over 1 chain = Max SA reading (Chains #1&2 or chains #3&4)

Reference numbers of test equipment used

HL 3287	HL 3301	HL 3302	HL 5233	HL 3356	HL 3433	HL 3434	HL 3435
HL 3818	HL 4355	HL 1295	HL 5174	HL 5286	HL 5409	HL 5611	HL1936
HL 5637	HL 5642	HL 3355	HL 3357	HL 1294	HL 5232		

Full description is given in Appendix A.



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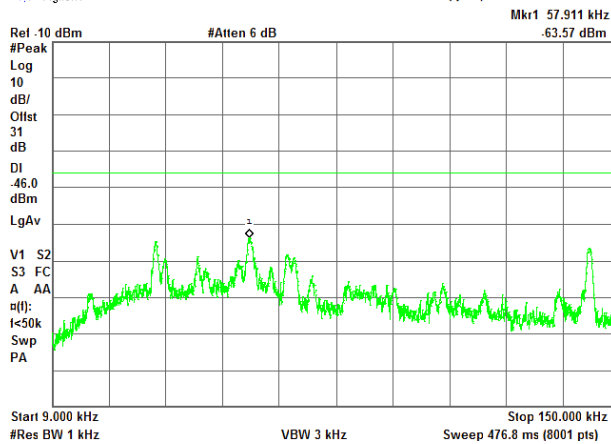
Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.1 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent

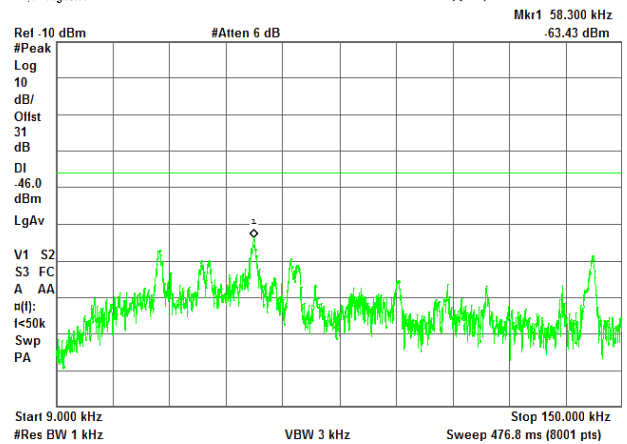
R T



QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent

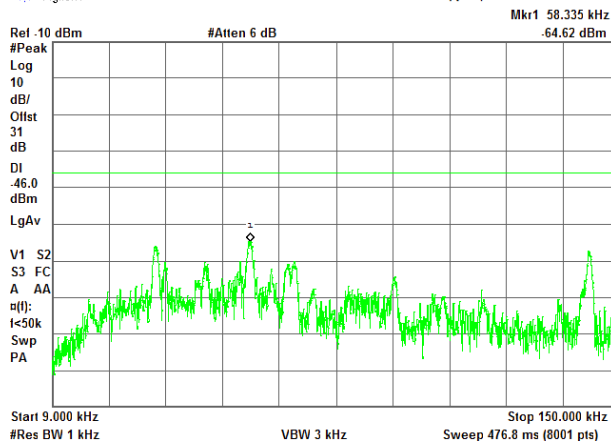
R T



ANTENNA CHAIN: #3

* Agilent

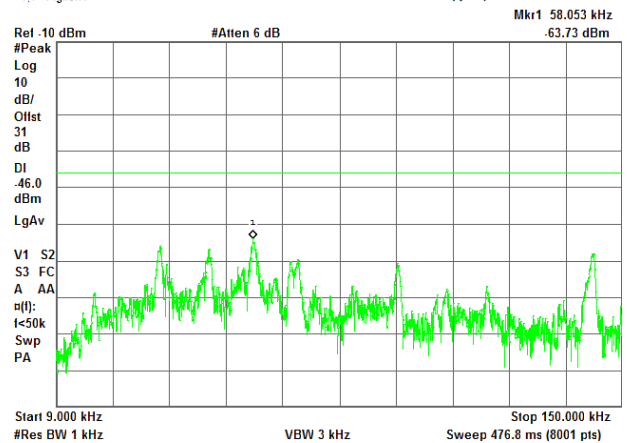
R T



ANTENNA CHAIN: #4

* Agilent

R T





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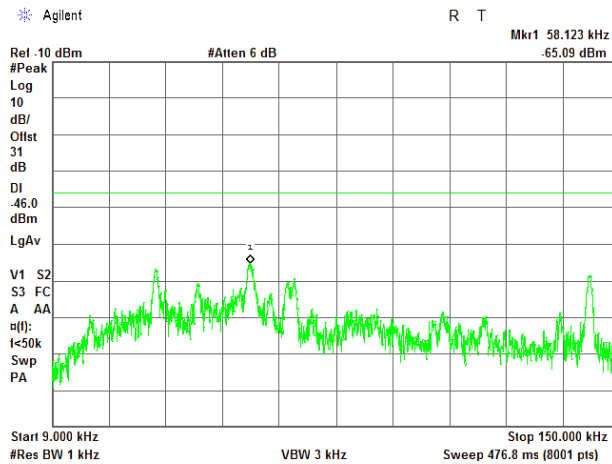
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.2 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency

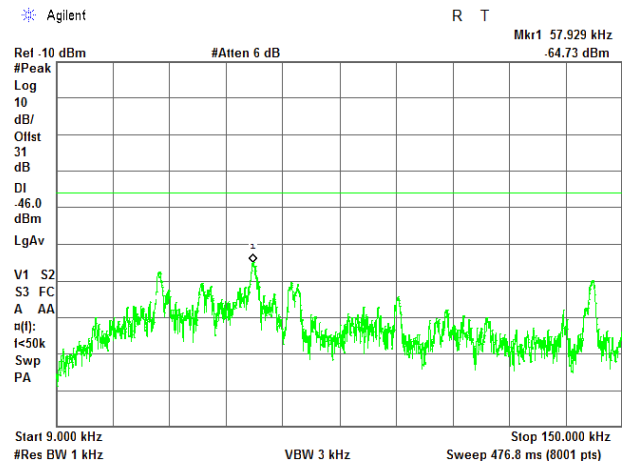
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



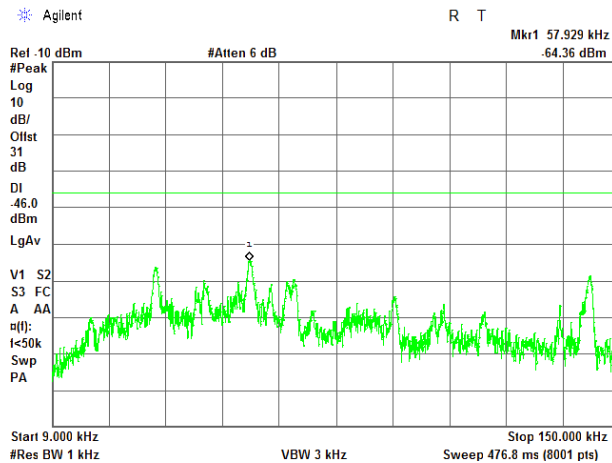
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



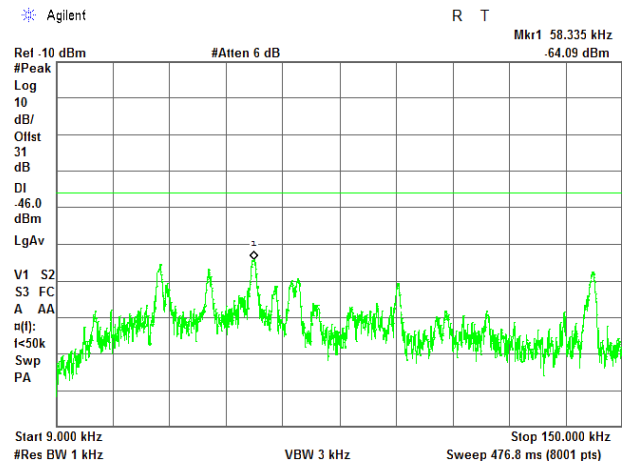
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





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Date of Issue: 25-Oct-21

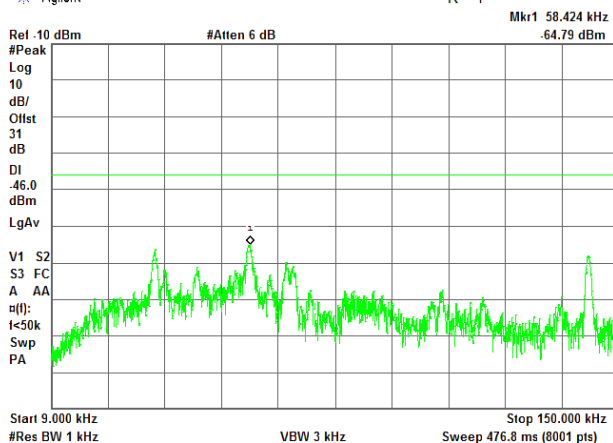
Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.3 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent

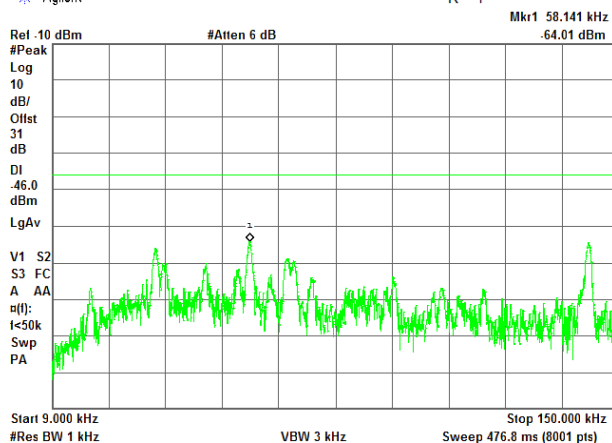
R T



QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent

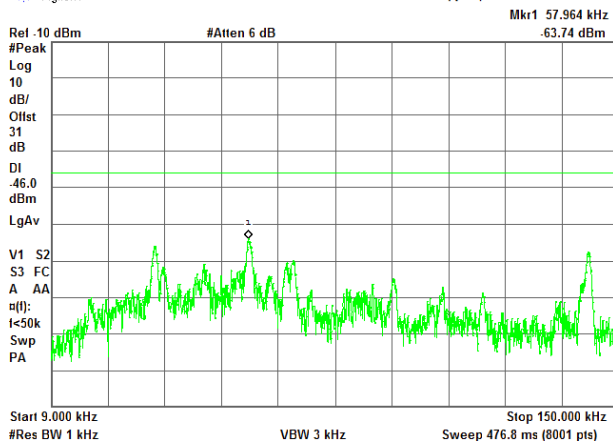
R T



ANTENNA CHAIN: #3

* Agilent

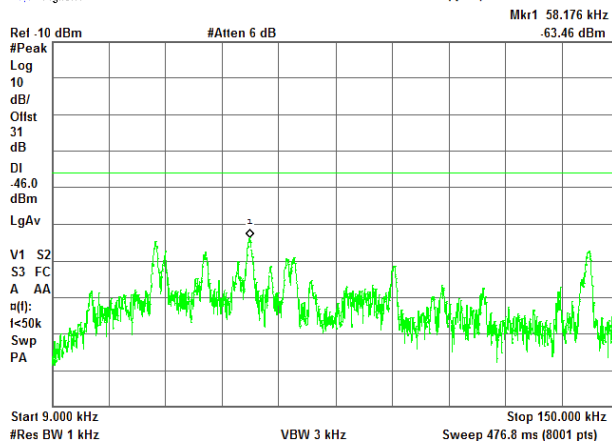
R T



ANTENNA CHAIN: #4

* Agilent

R T





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Date of Issue: 25-Oct-21

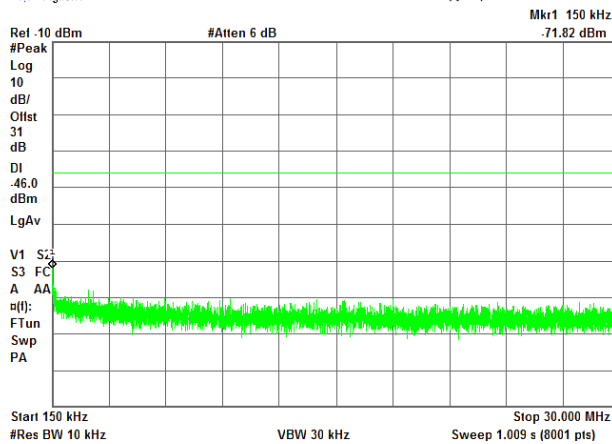
Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.4 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent

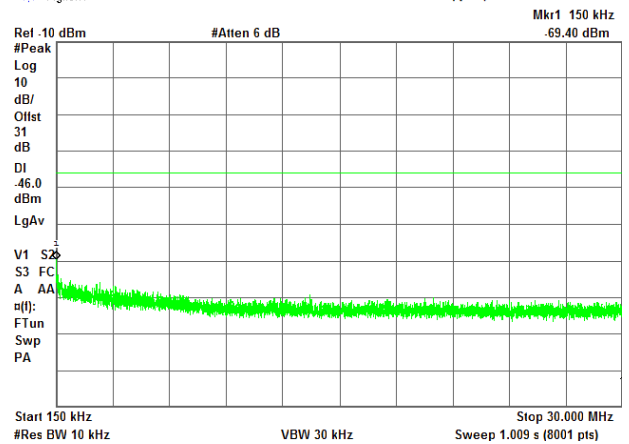
R T



QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent

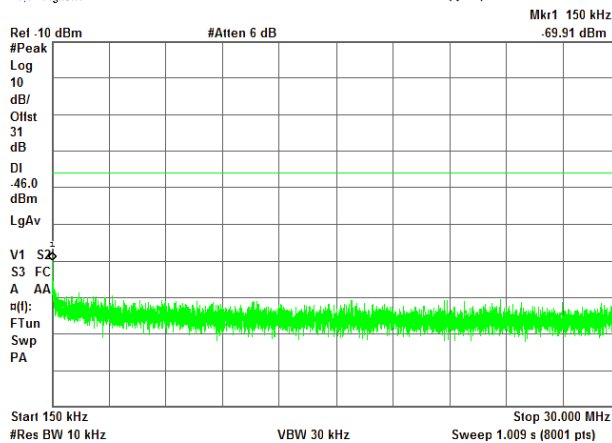
R T



ANTENNA CHAIN: #3

* Agilent

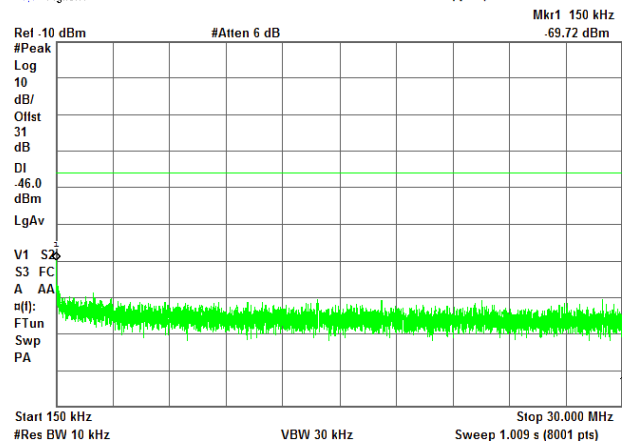
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2
Date of Issue: 25-Oct-21

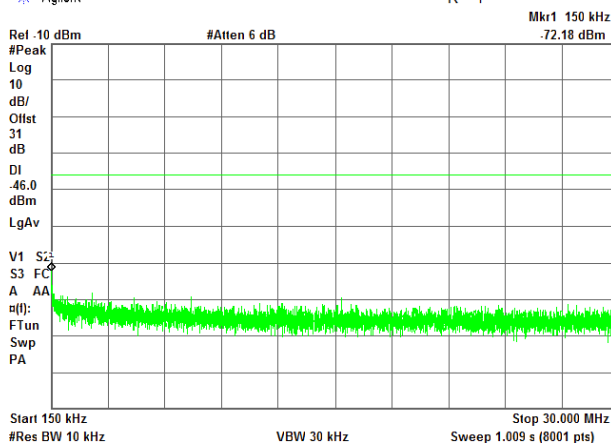
Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.5 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent

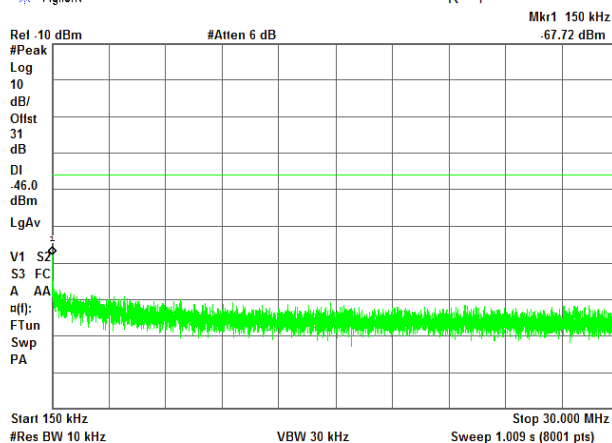
R T



QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent

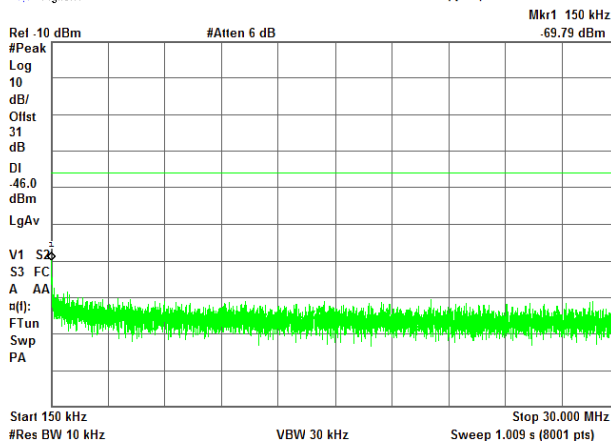
R T



ANTENNA CHAIN: #3

* Agilent

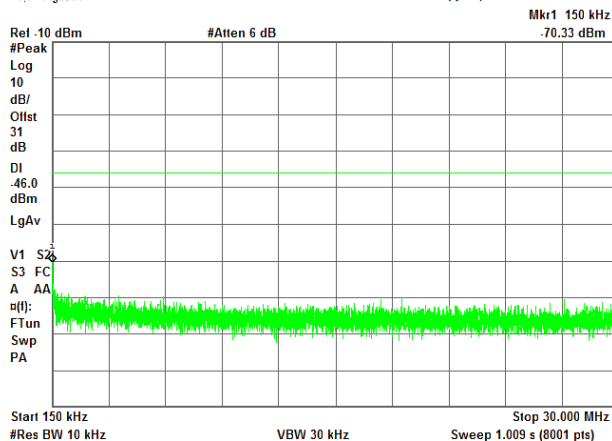
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.6 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency

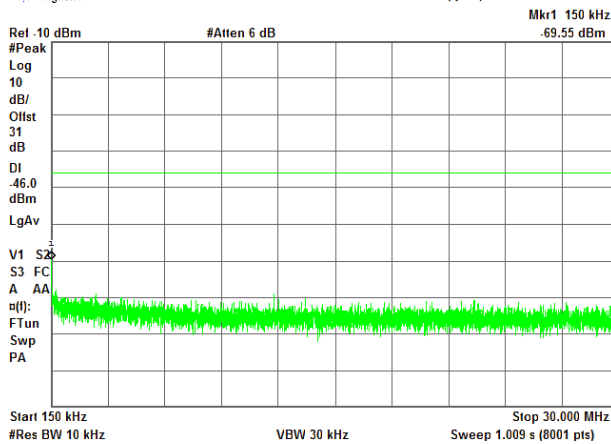
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



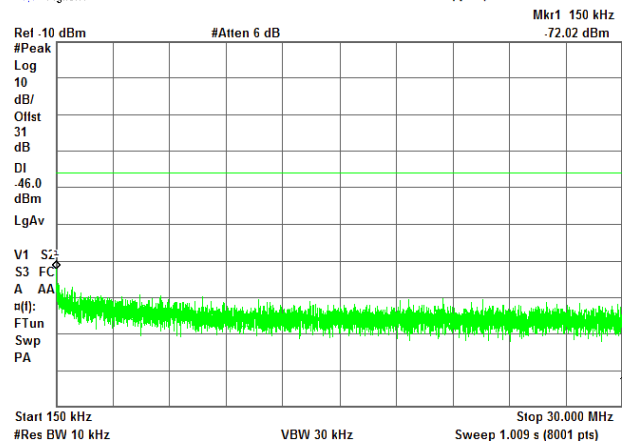
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

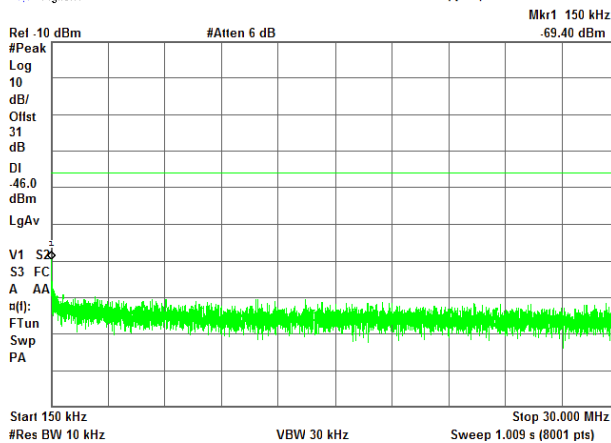
R T



ANTENNA CHAIN: #3

* Agilent

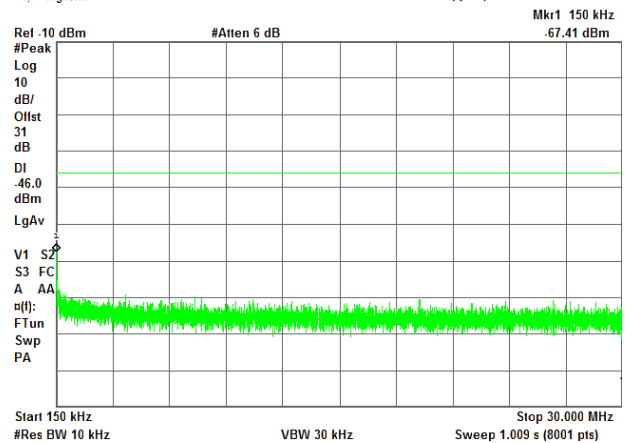
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.7 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency

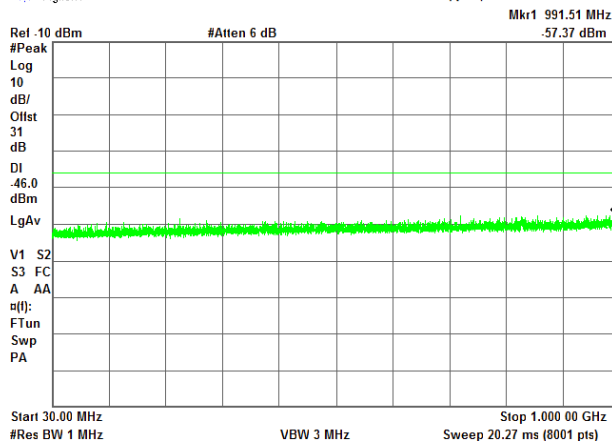
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



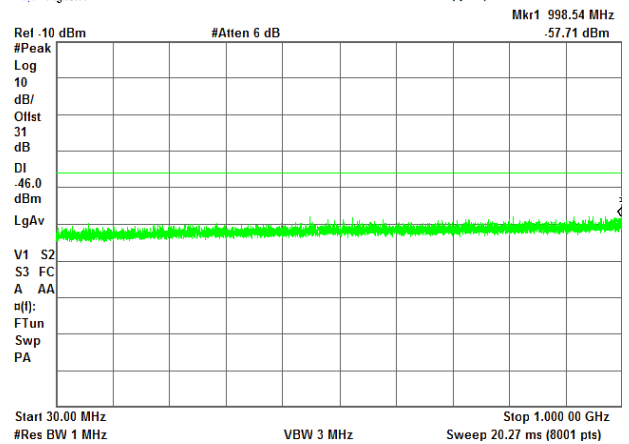
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

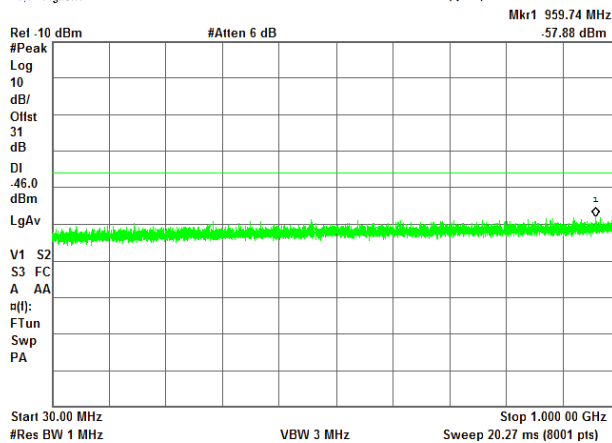
R T



ANTENNA CHAIN: #3

* Agilent

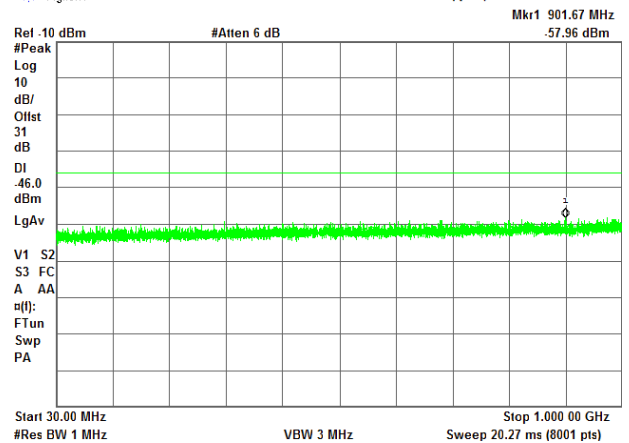
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.8 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency

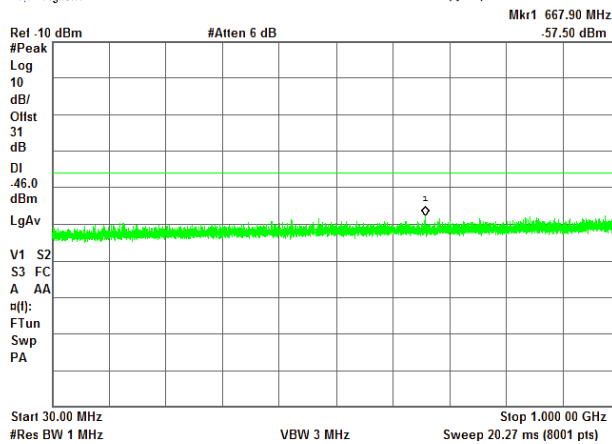
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



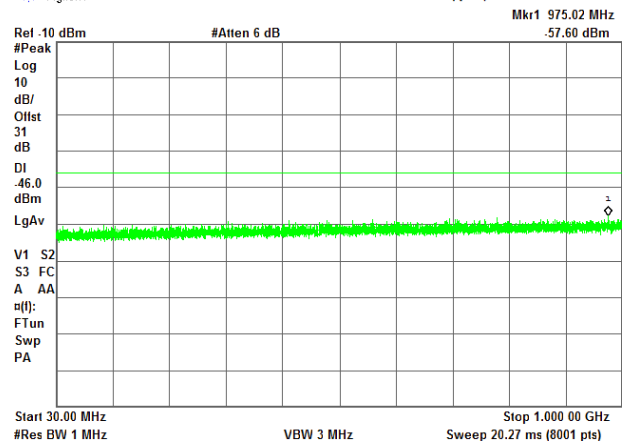
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

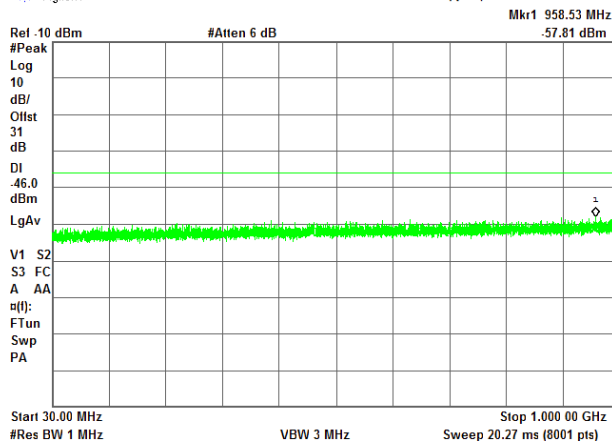
R T



ANTENNA CHAIN: #3

* Agilent

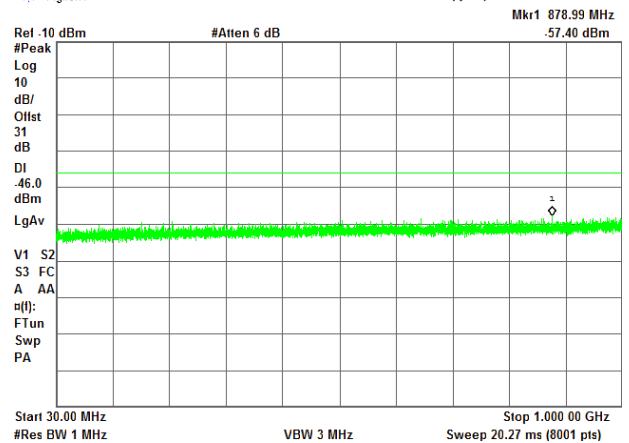
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

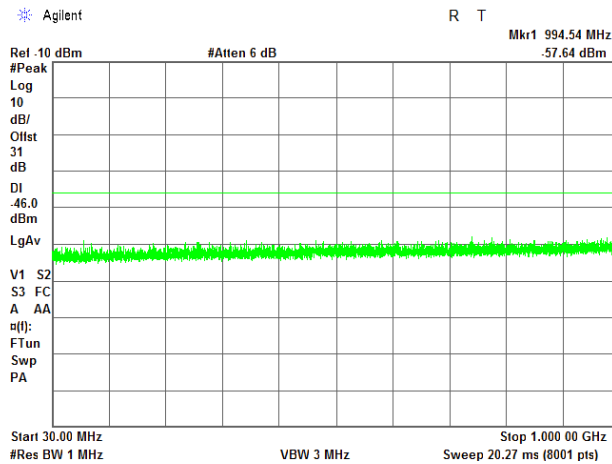
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.9 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency

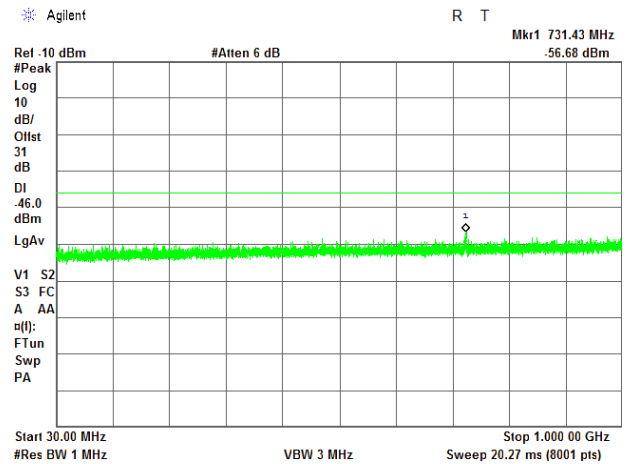
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



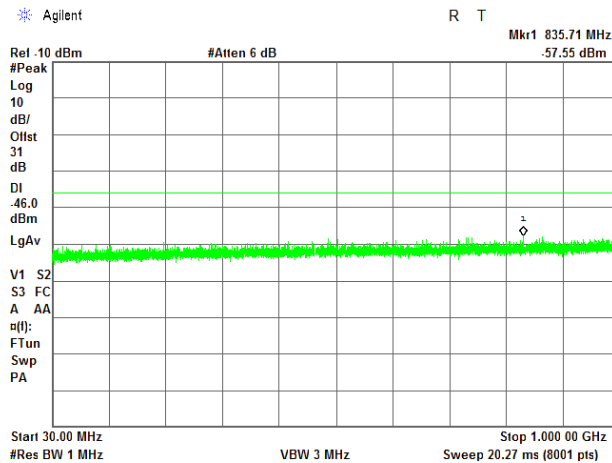
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



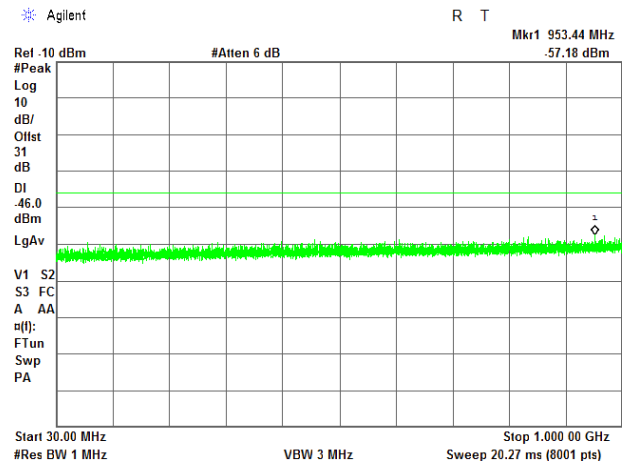
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





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Report ID: AIRRAD_FCC.42554_Rev2

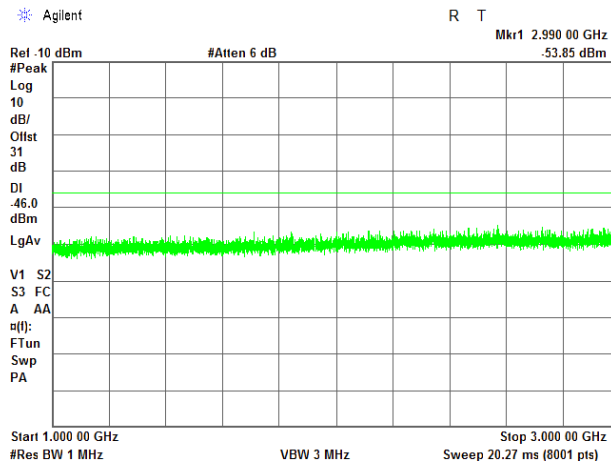
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.10 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency

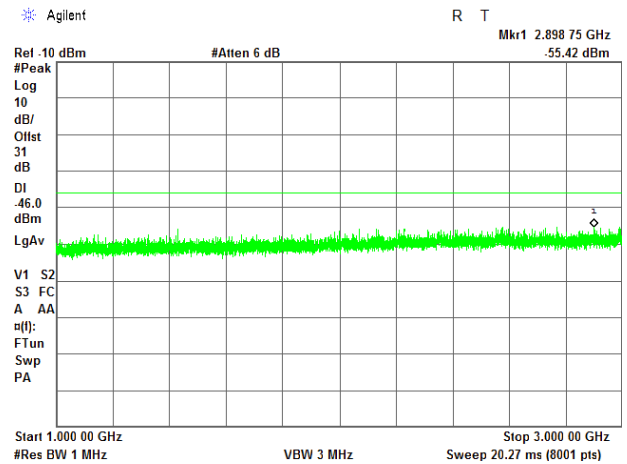
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



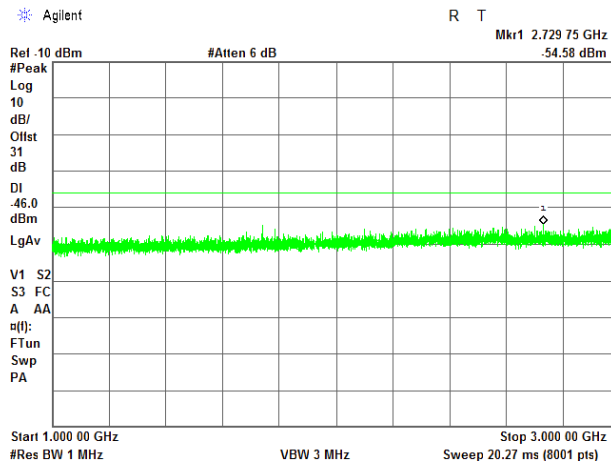
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



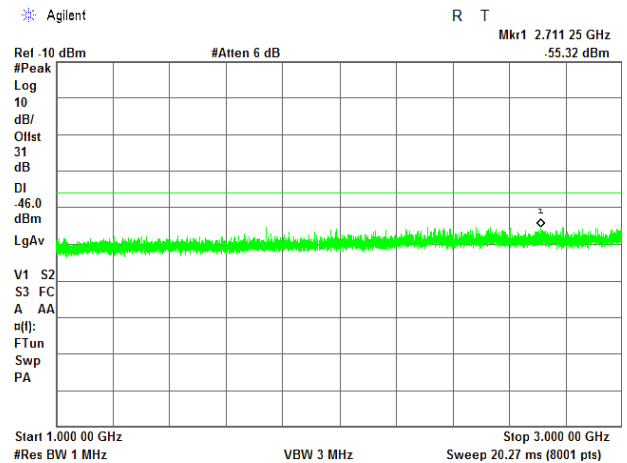
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

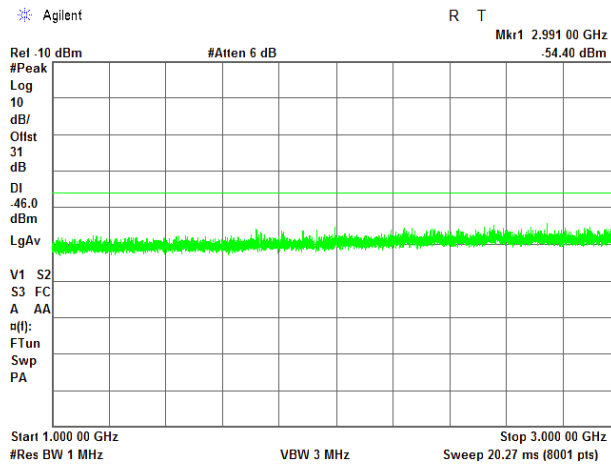
Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.11 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency

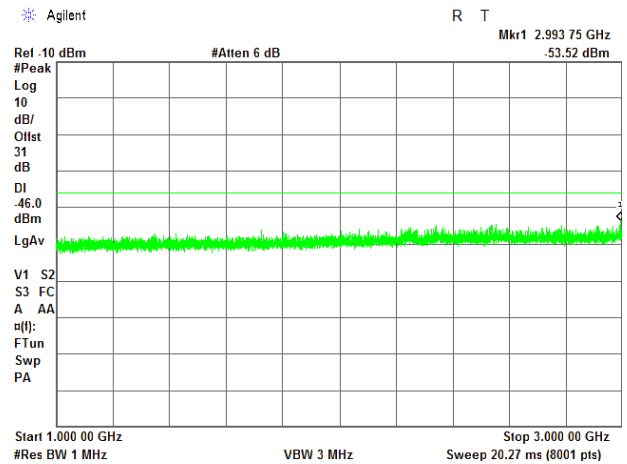
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

Agilent



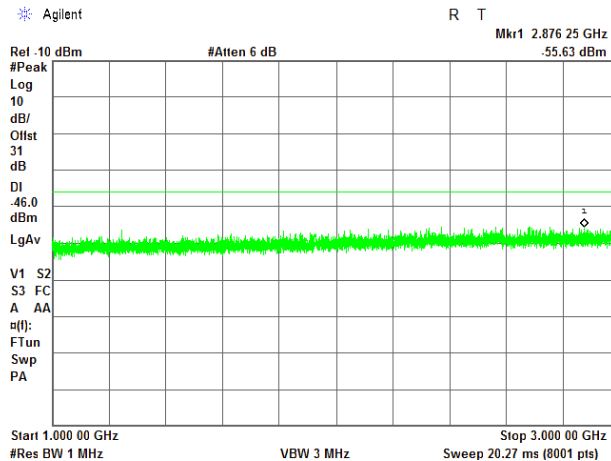
QPSK
10 MHz
ANTENNA CHAIN: #2

Agilent



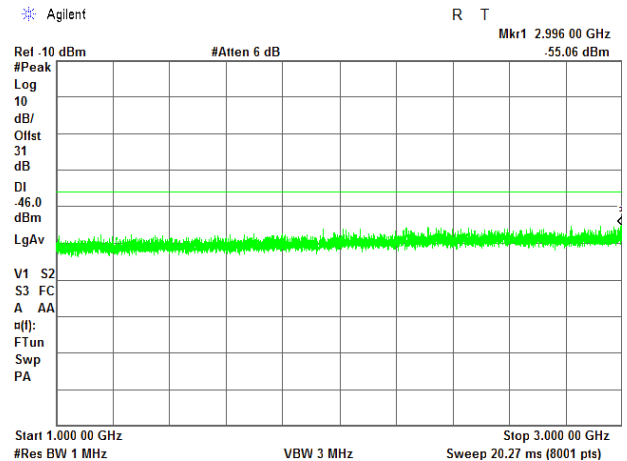
ANTENNA CHAIN: #3

Agilent



ANTENNA CHAIN: #4

Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

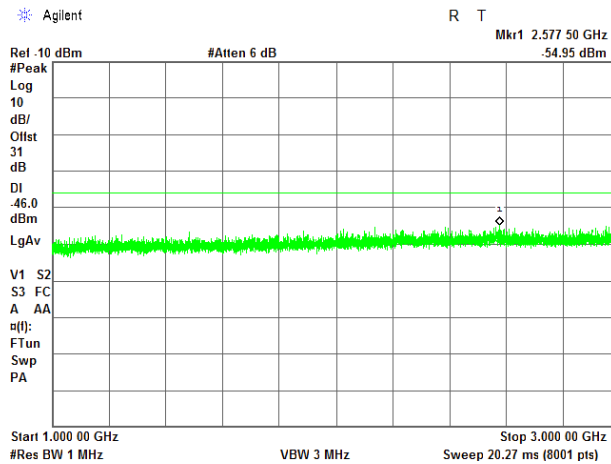
Plot 7.6.12 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency

MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

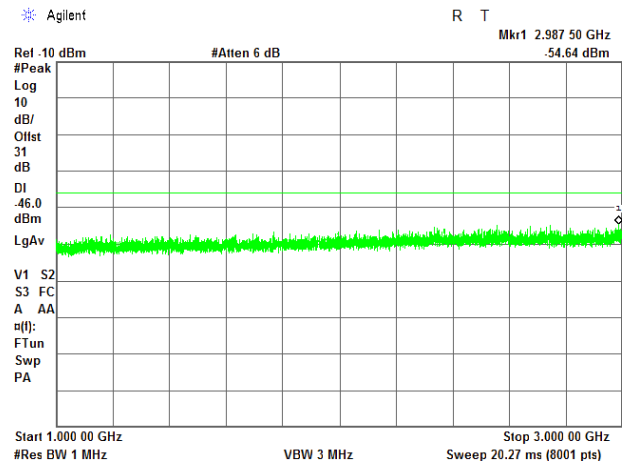


QPSK

10 MHz

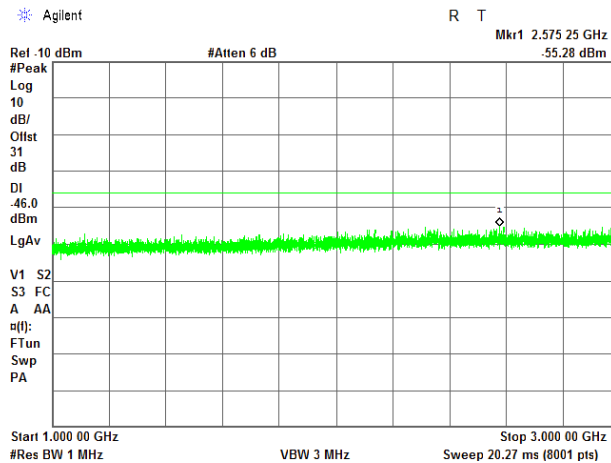
ANTENNA CHAIN: #2

* Agilent



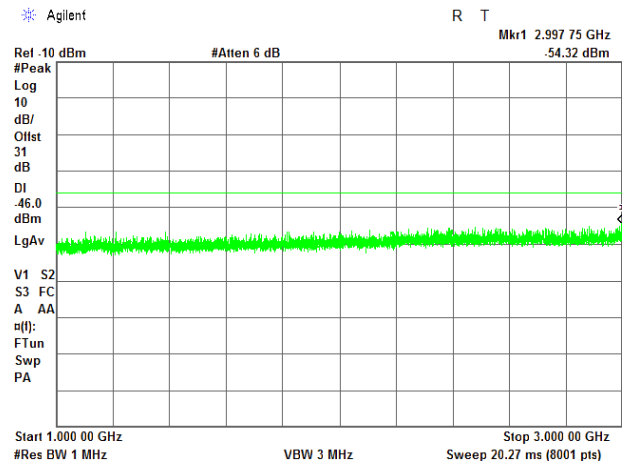
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.13 Spurious emission measurements in 3000 - 3470 MHz range at low carrier frequency

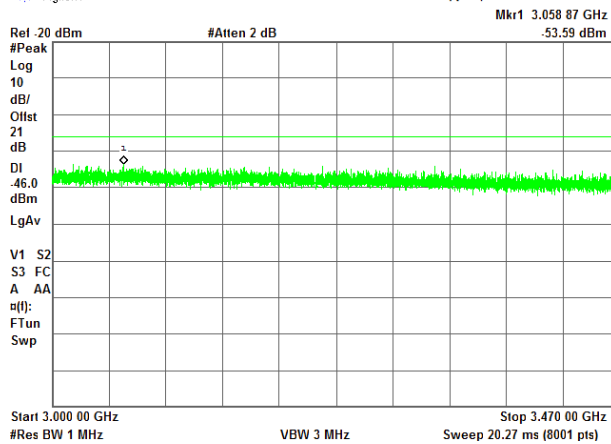
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



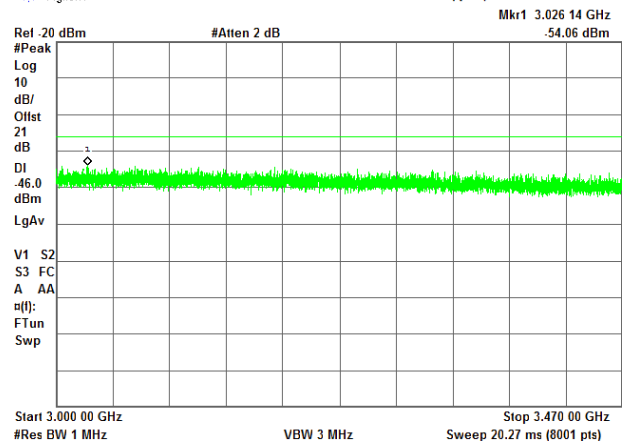
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

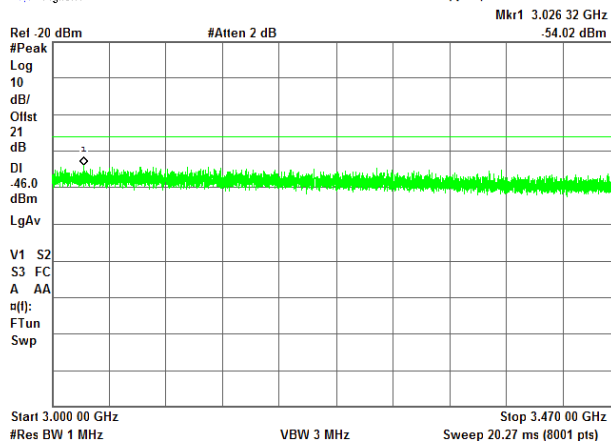
R T



ANTENNA CHAIN: #3

* Agilent

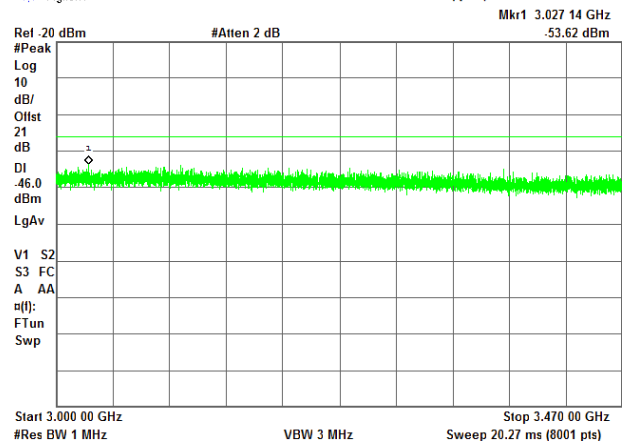
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.14 Spurious emission measurements in 3000 - 3470 MHz range at mid carrier frequency

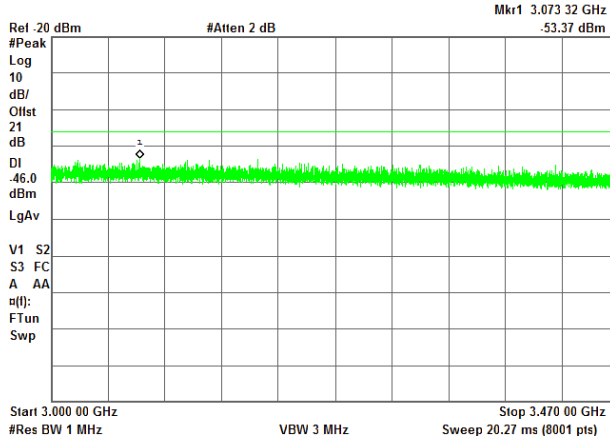
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



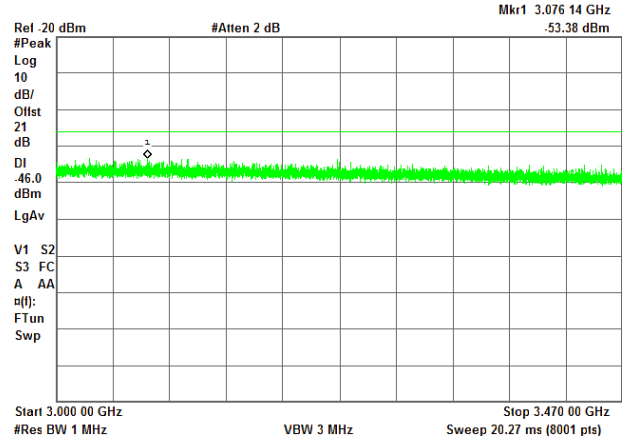
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

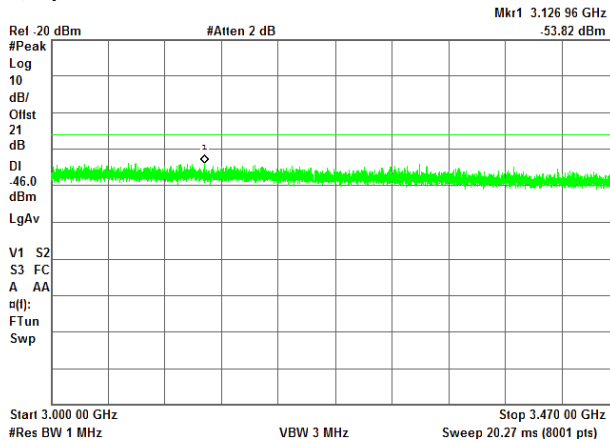
R T



ANTENNA CHAIN: #3

* Agilent

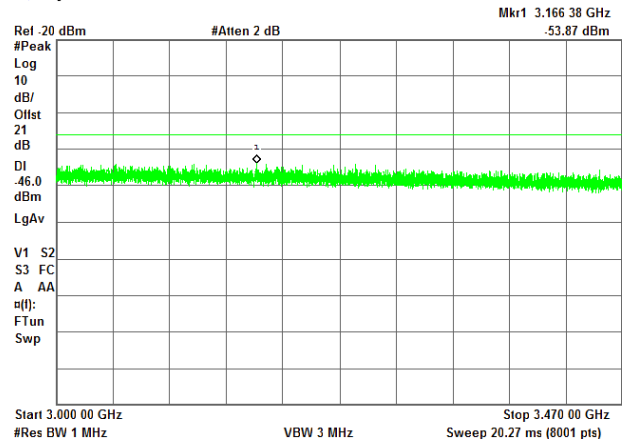
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.15 Spurious emission measurements in 3000 - 3470 MHz range at high carrier frequency

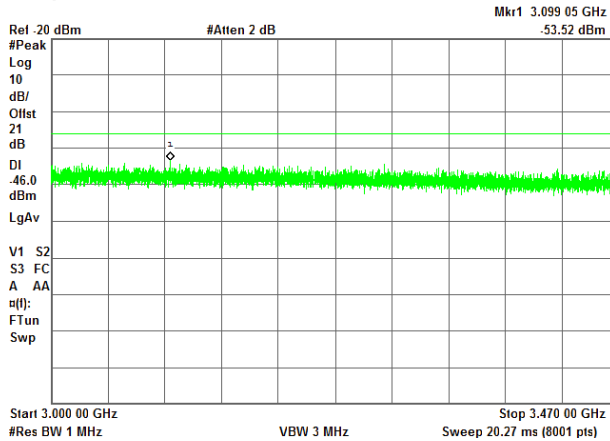
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



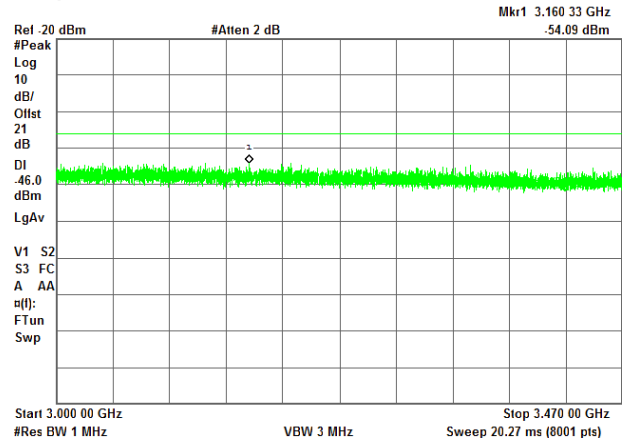
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

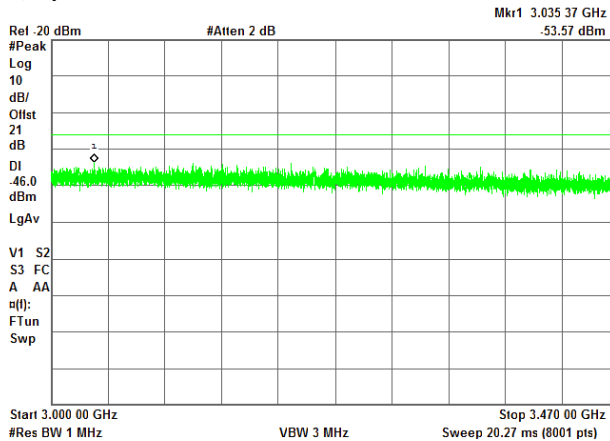
R T



ANTENNA CHAIN: #3

* Agilent

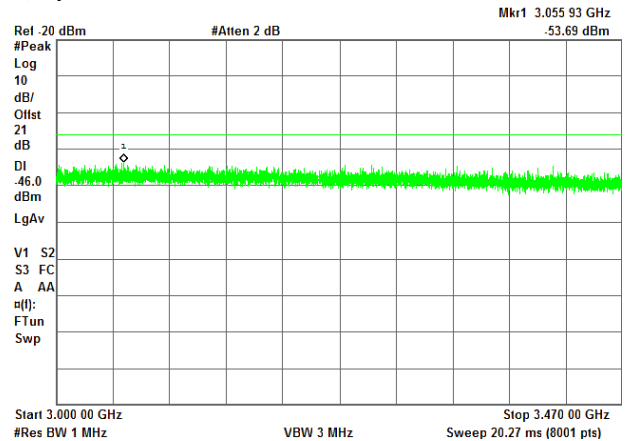
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

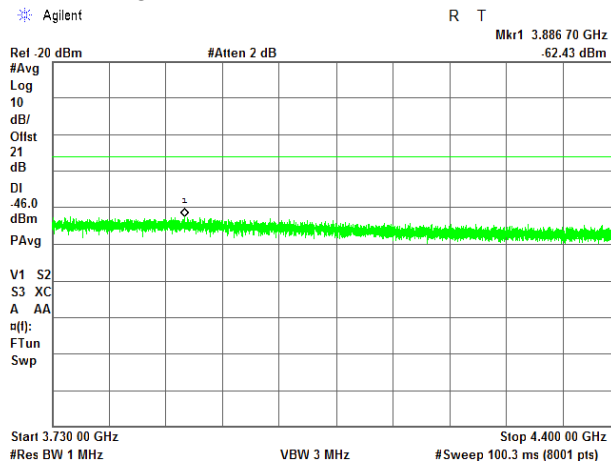
Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

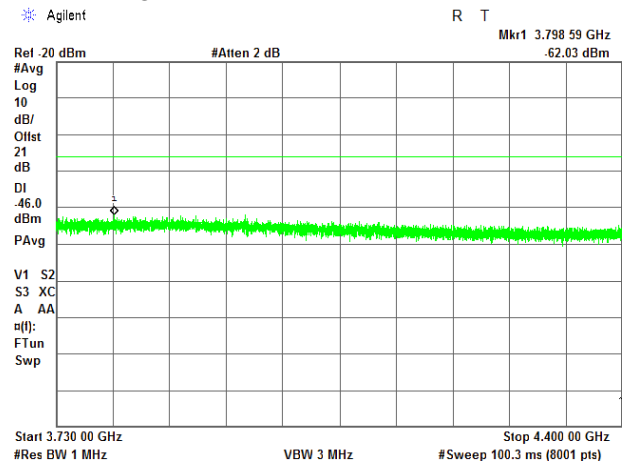
Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.16 Spurious emission measurements in 3730 - 4400 MHz range at low carrier frequency

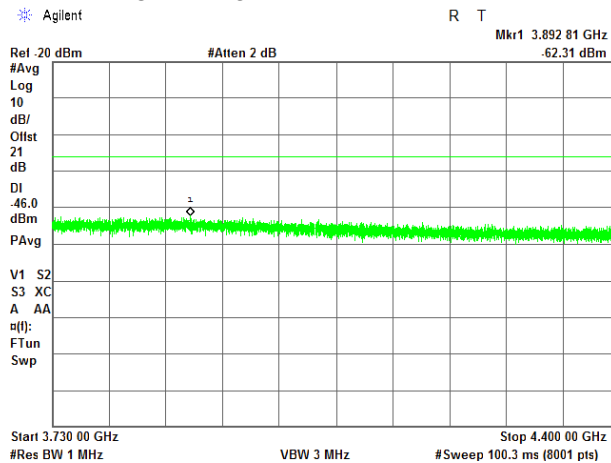
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



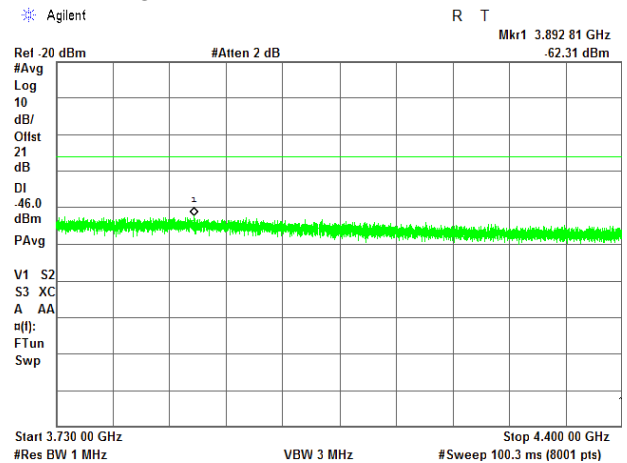
QPSK
10 MHz
ANTENNA CHAIN: #2



ANTENNA CHAIN: #3



ANTENNA CHAIN: #4





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.17 Spurious emission measurements in 3730 - 4400 MHz range at mid carrier frequency

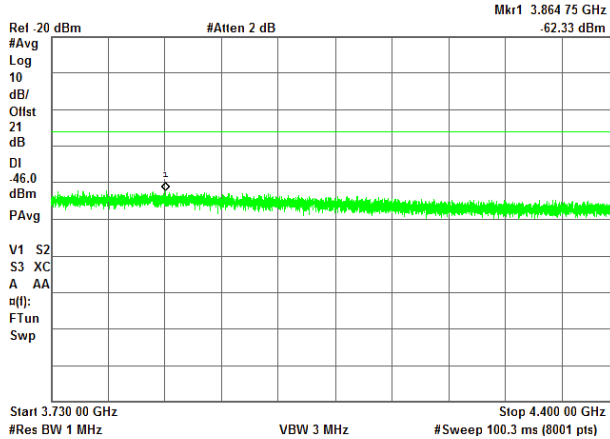
MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

R T



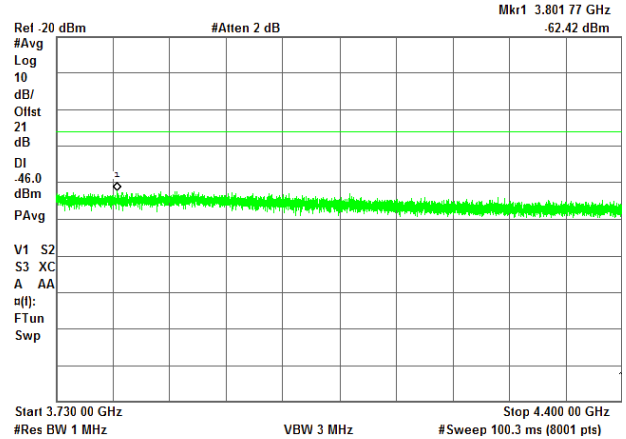
QPSK

10 MHz

ANTENNA CHAIN: #2

* Agilent

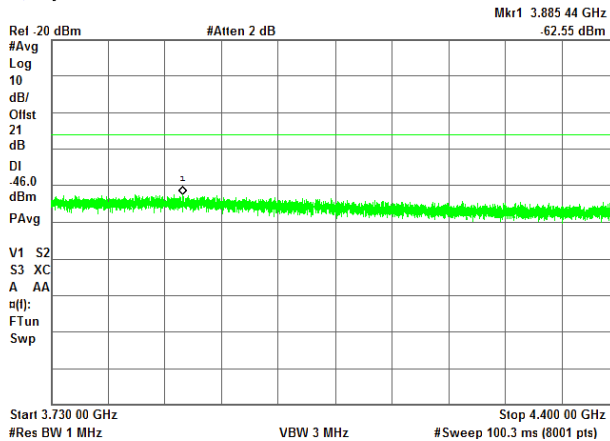
R T



ANTENNA CHAIN: #3

* Agilent

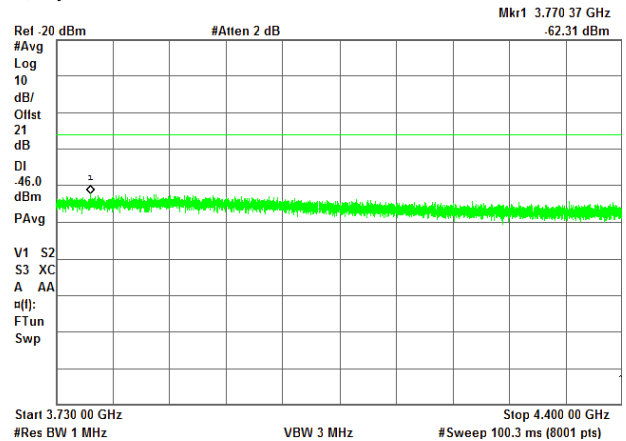
R T



ANTENNA CHAIN: #4

* Agilent

R T





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

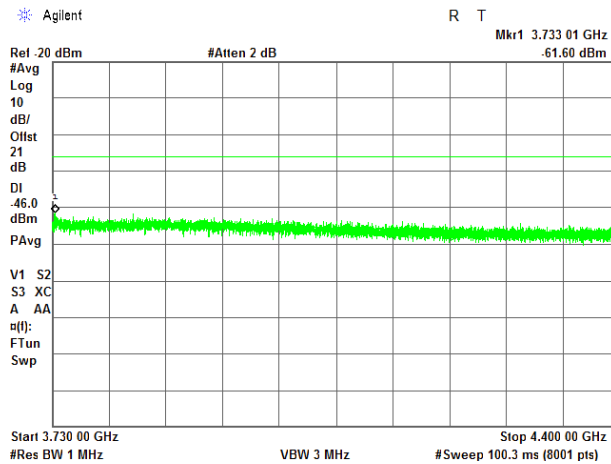
Plot 7.6.18 Spurious emission measurements in 3730 - 4400 MHz range at high carrier frequency

MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

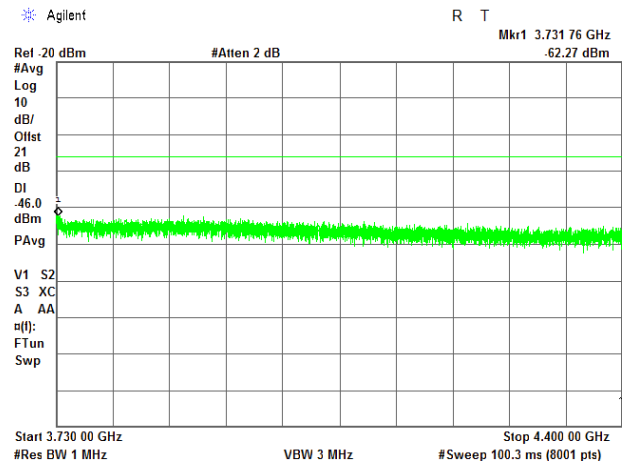


QPSK

10 MHz

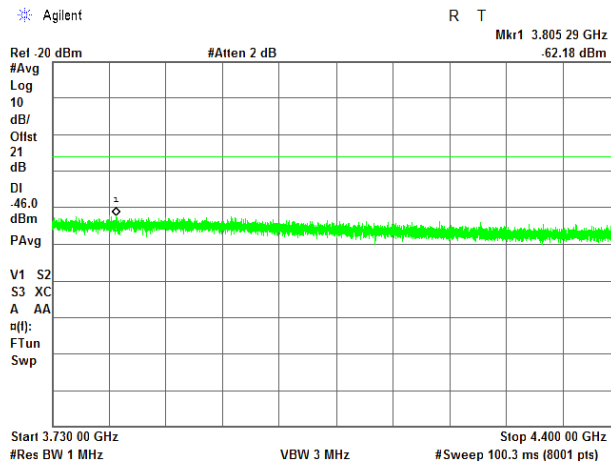
ANTENNA CHAIN: #2

* Agilent



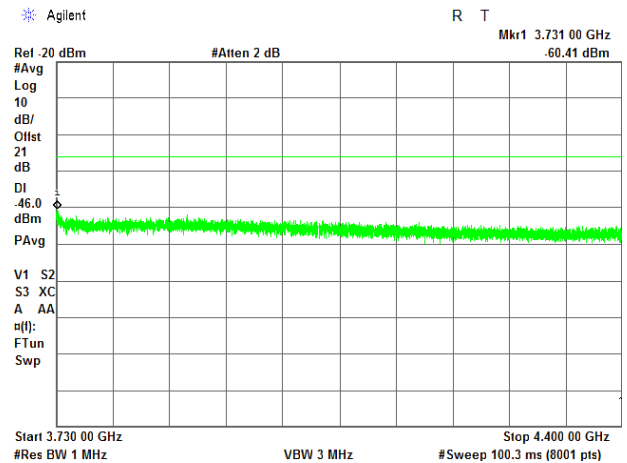
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

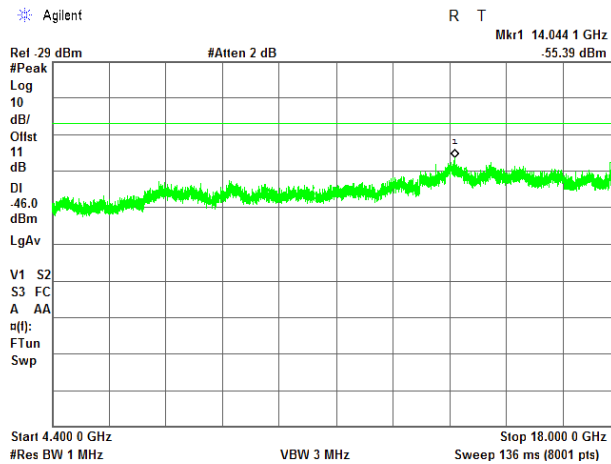
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.19 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency

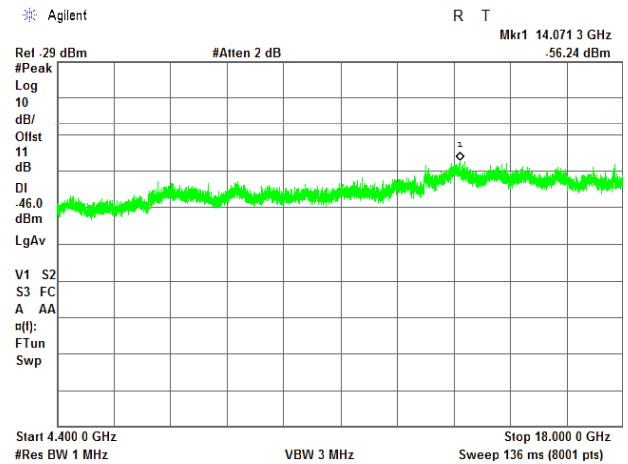
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



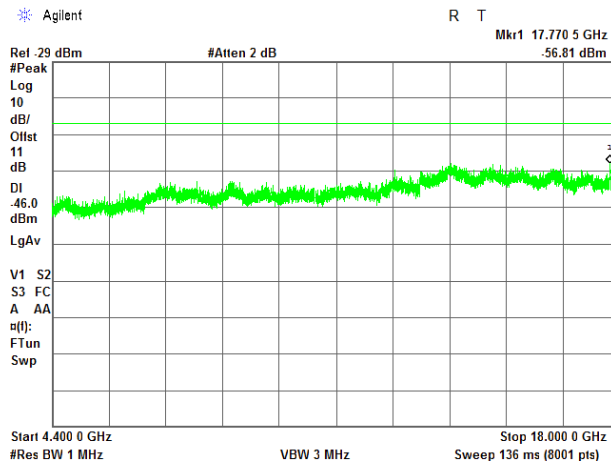
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



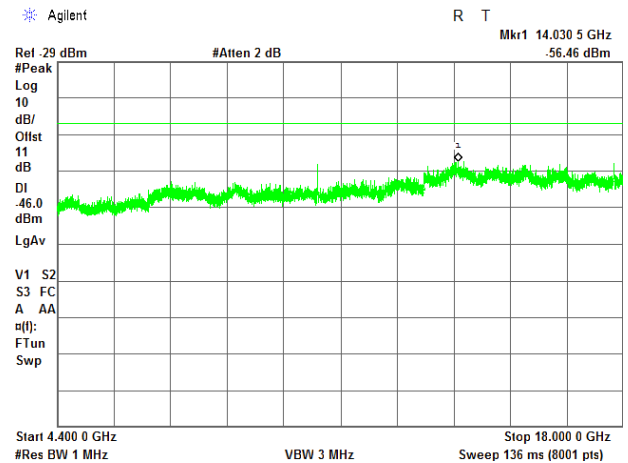
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

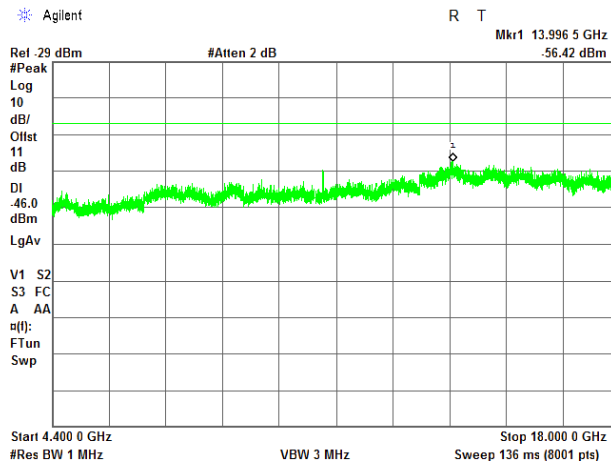
Plot 7.6.20 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency

MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

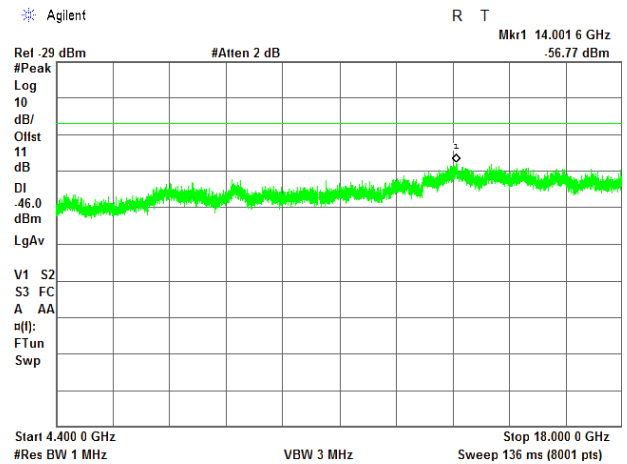


QPSK

10 MHz

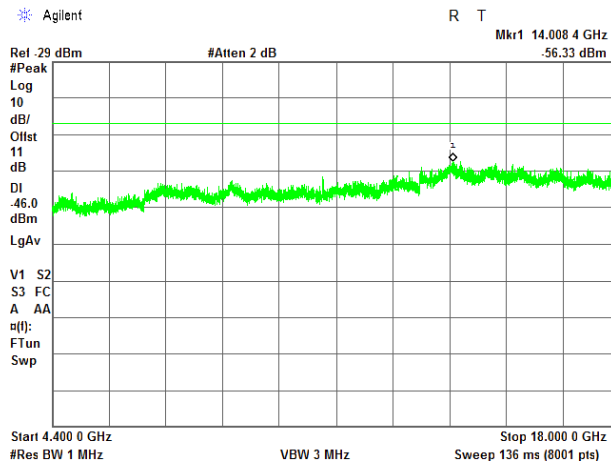
ANTENNA CHAIN: #2

* Agilent



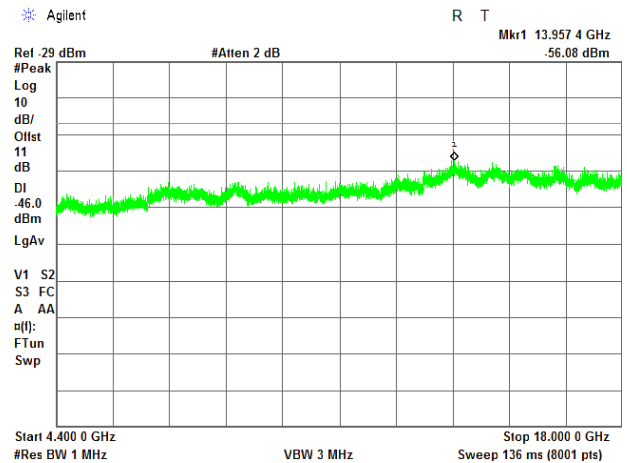
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

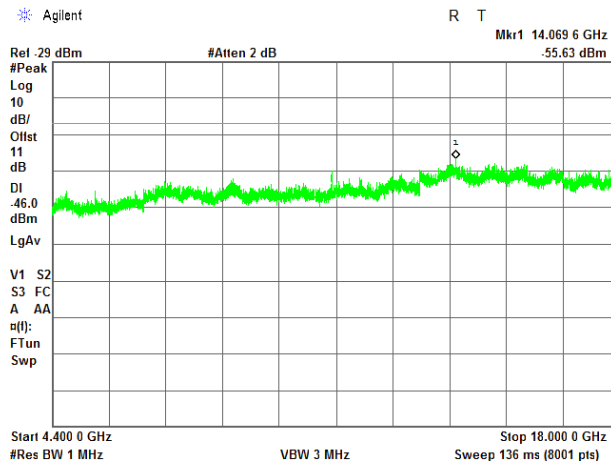
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.21 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency

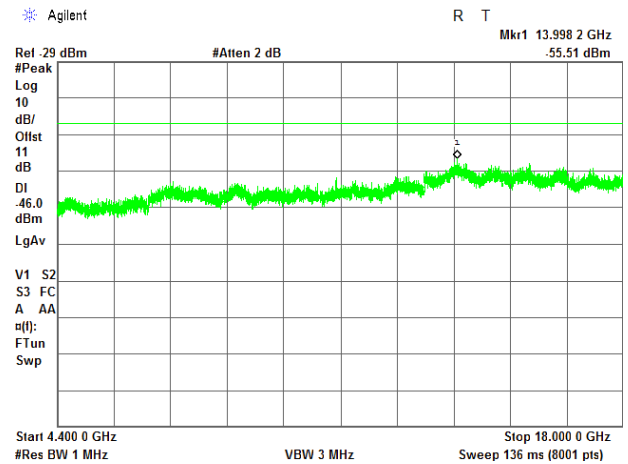
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



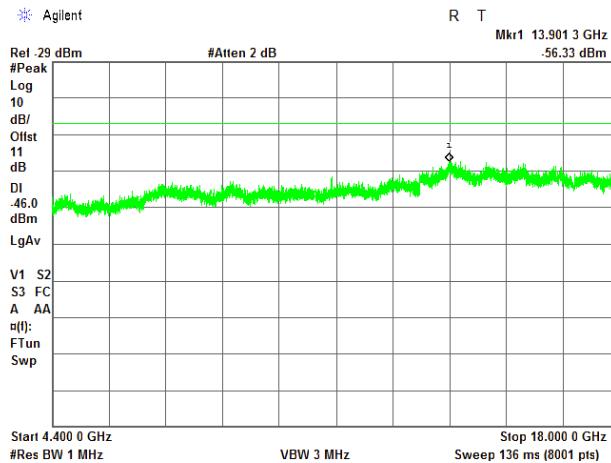
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



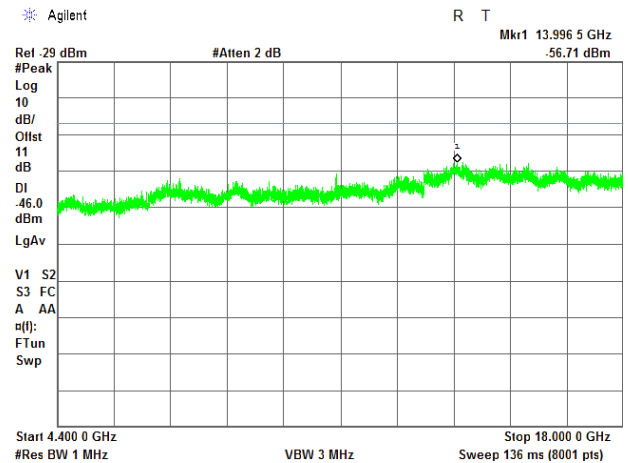
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

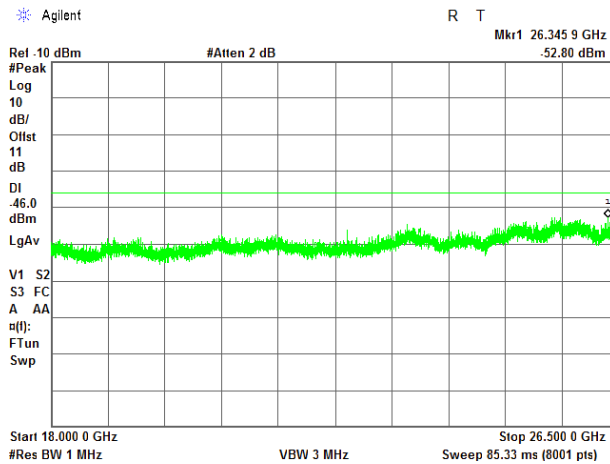
Plot 7.6.22 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency

MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

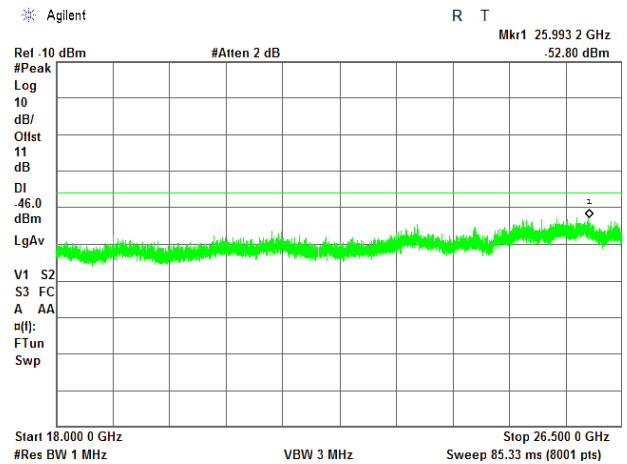


QPSK

10 MHz

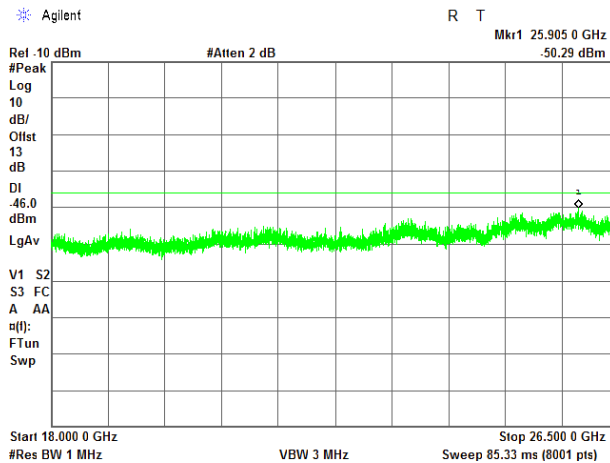
ANTENNA CHAIN: #2

* Agilent



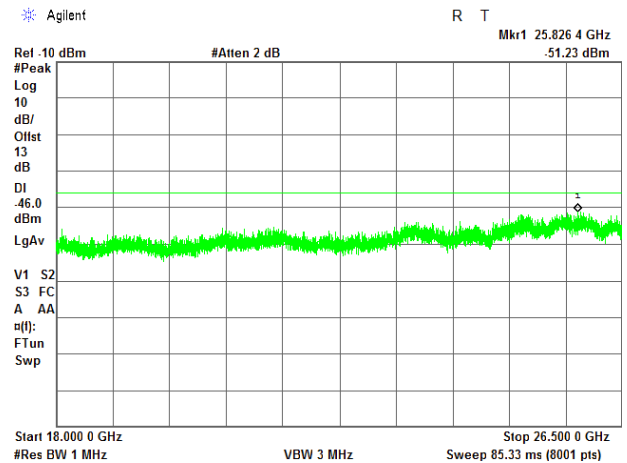
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

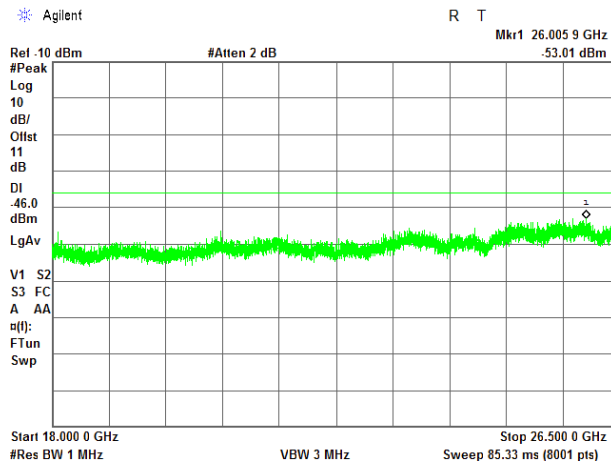
Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.23 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency

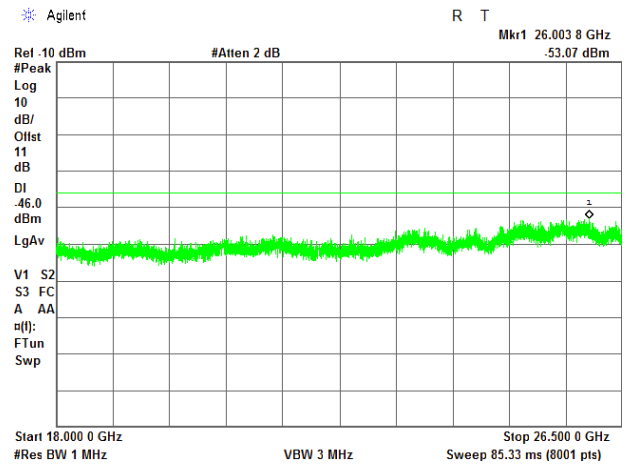
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



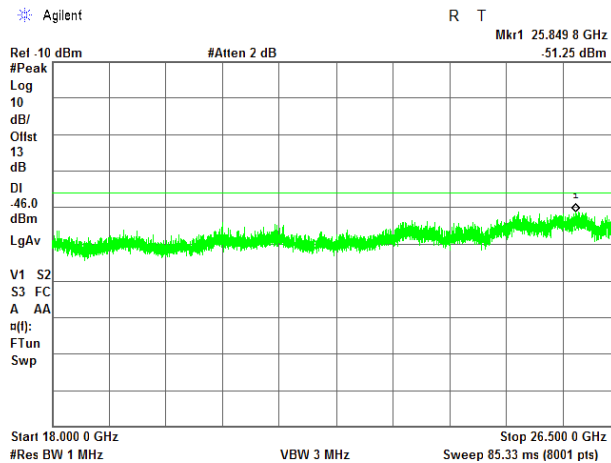
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



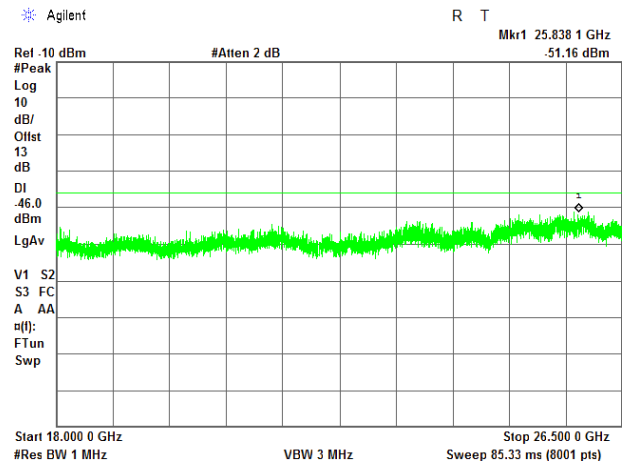
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

Date of Issue: 25-Oct-21

Test specification: Section 96.41(e)(3), Conducted spurious emissions			
Test procedure: Section 96.41(e)(3)			
Test mode: Compliance		Verdict: PASS	
Date(s): 25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

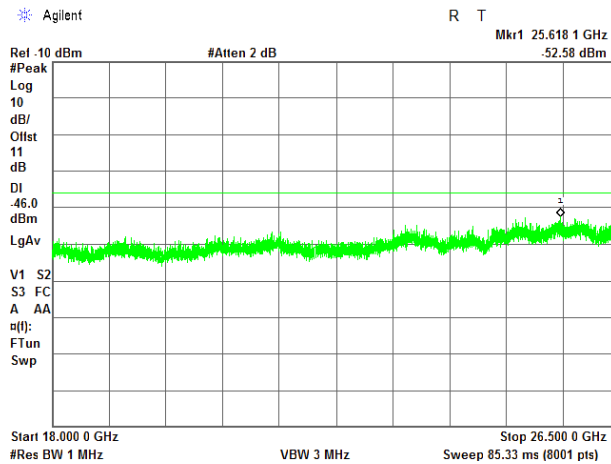
Plot 7.6.24 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency

MODULATION:

CHANNEL SPACING:

ANTENNA CHAIN: #1

* Agilent

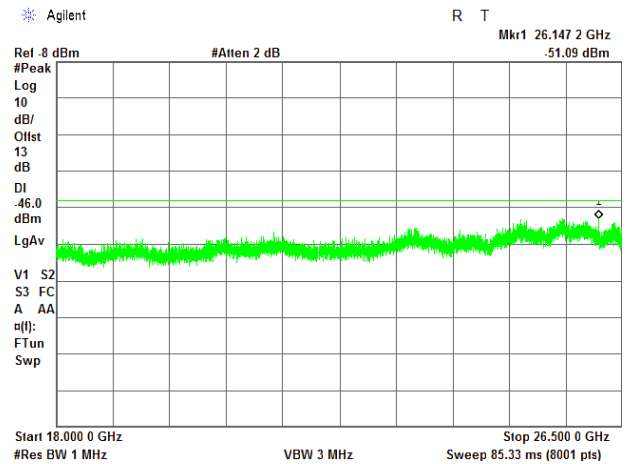


QPSK

10 MHz

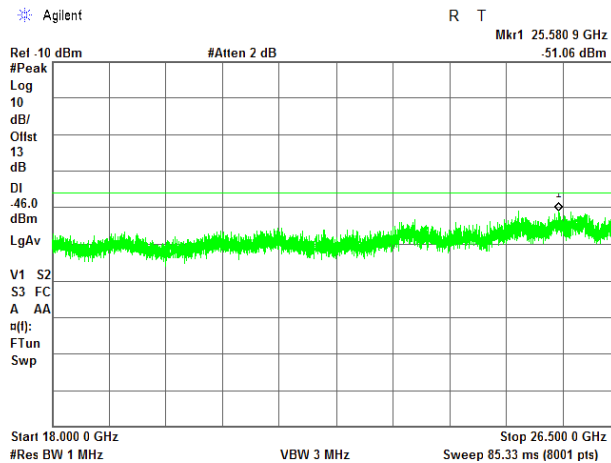
ANTENNA CHAIN: #2

* Agilent



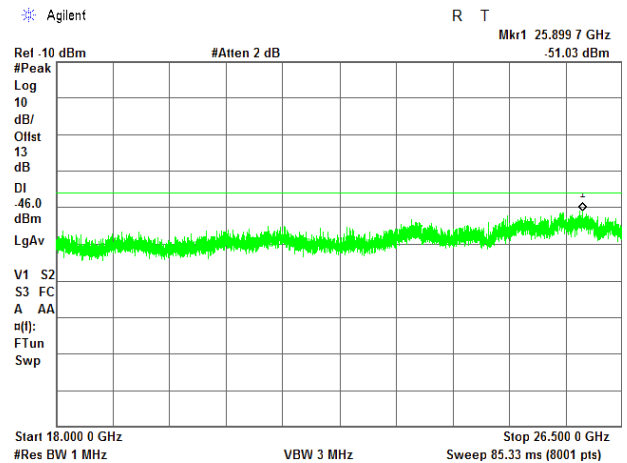
ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent





HERMON LABORATORIES

Report ID: AIRRAD_FCC.42554_Rev2

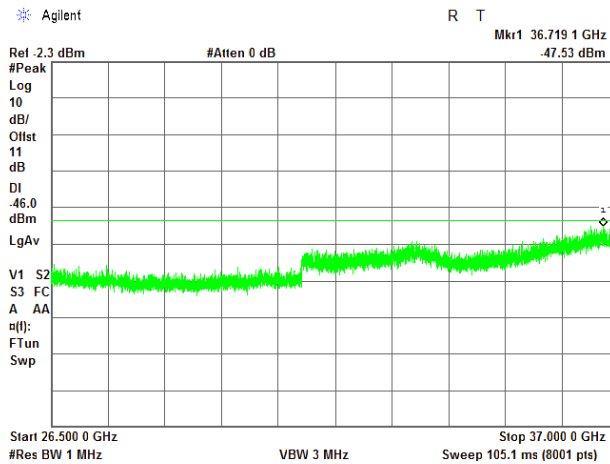
Date of Issue: 25-Oct-21

Test specification:		Section 96.41(e)(3), Conducted spurious emissions	
Test procedure:		Section 96.41(e)(3)	
Test mode:		Verdict: PASS	
Date(s):			
25-Aug-21 – 30-Sep-21			
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.25 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency

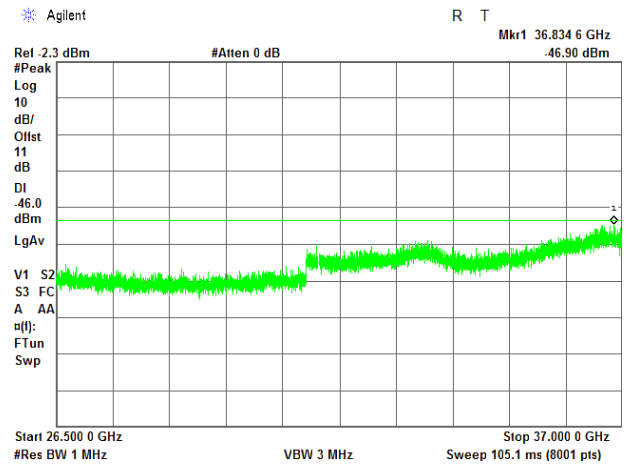
MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

* Agilent



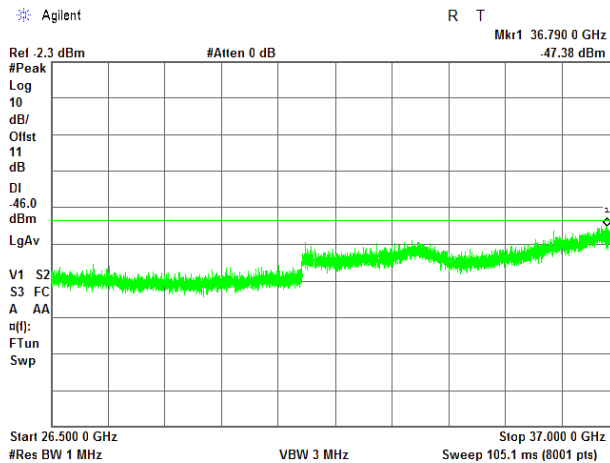
QPSK
10 MHz
ANTENNA CHAIN: #2

* Agilent



ANTENNA CHAIN: #3

* Agilent



ANTENNA CHAIN: #4

* Agilent

