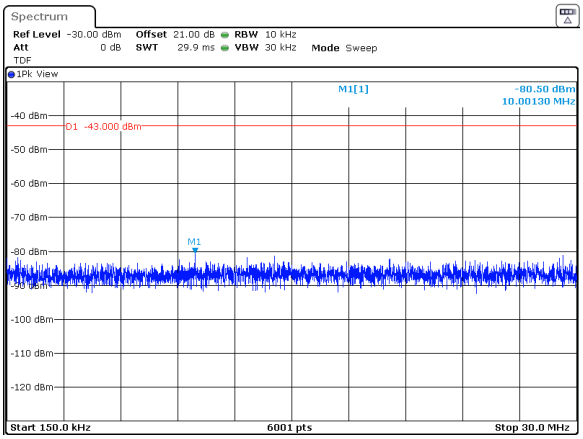
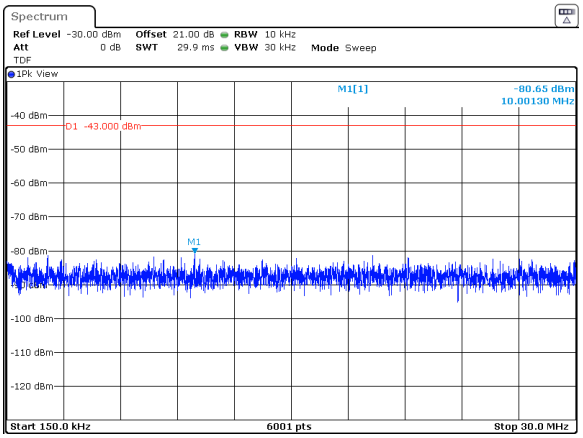
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

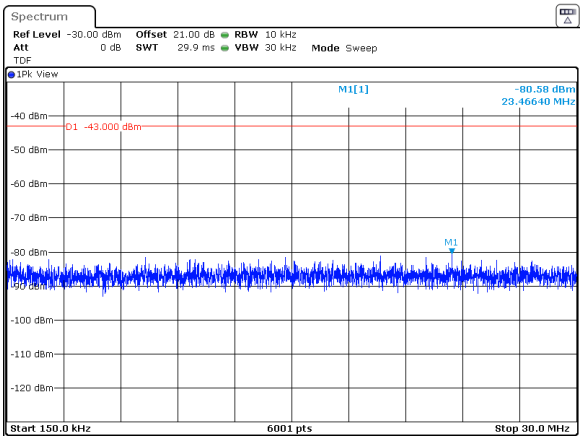


QPSK
10 MHz
ANTENNA CHAIN: #2

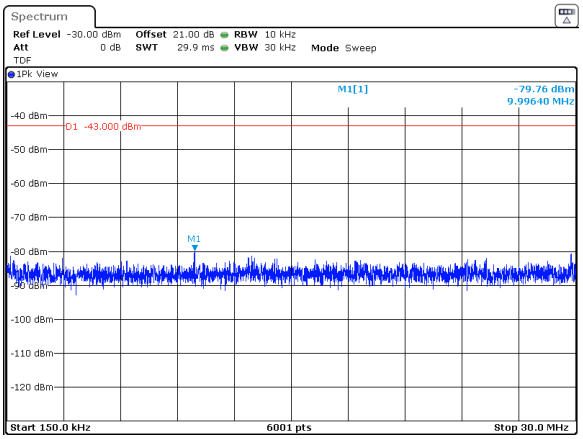


Plot 7.6.6 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



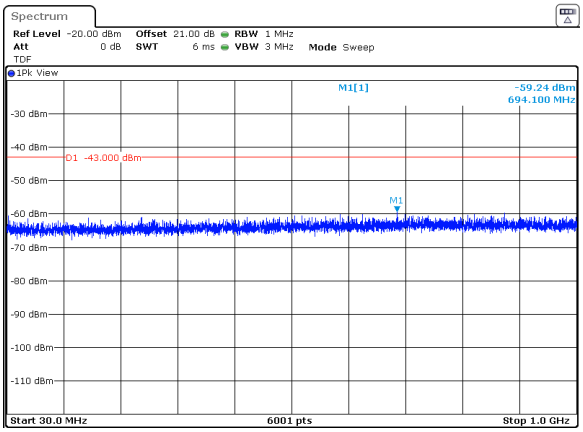
QPSK
10 MHz
ANTENNA CHAIN: #2



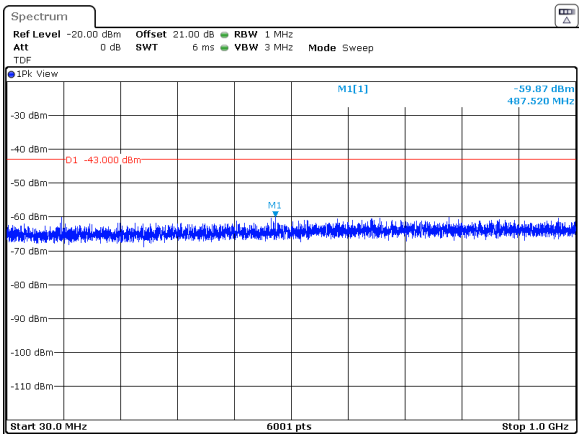
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

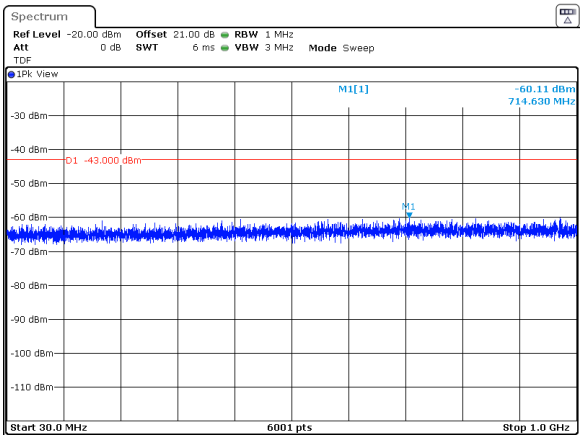


QPSK
10 MHz
ANTENNA CHAIN: #2

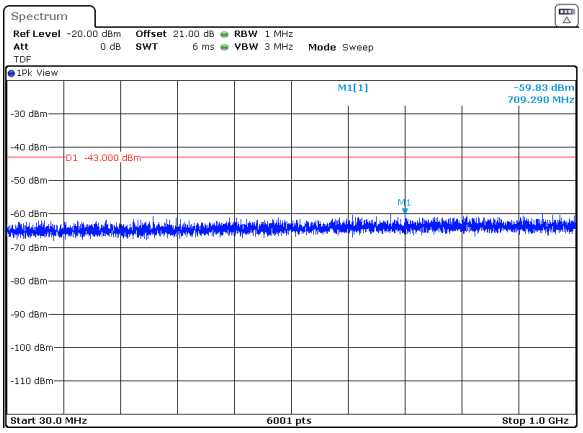


Plot 7.6.8 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



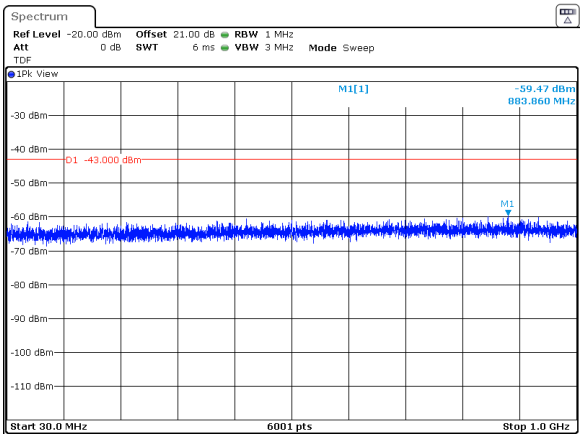
QPSK
10 MHz
ANTENNA CHAIN: #2



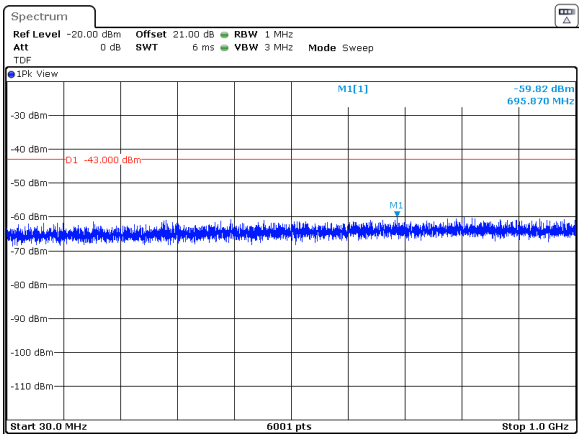
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

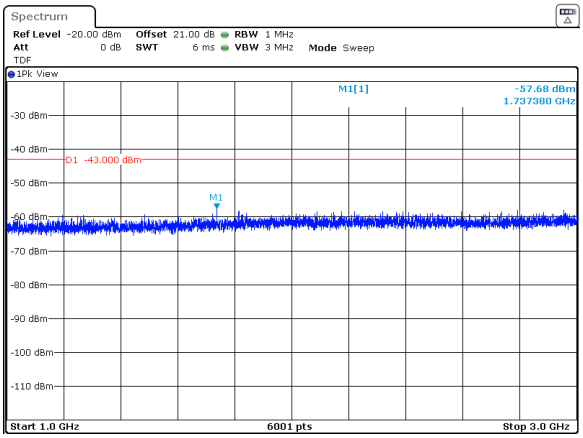


QPSK
10 MHz
ANTENNA CHAIN: #2

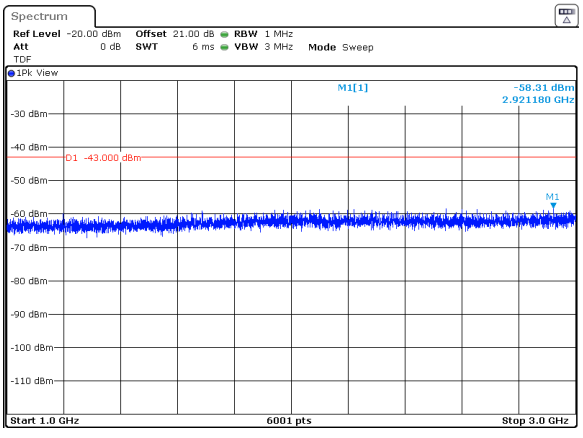


Plot 7.6.10 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



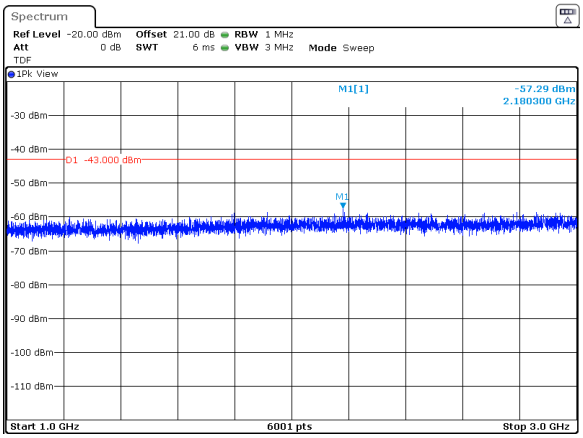
QPSK
10 MHz
ANTENNA CHAIN: #2



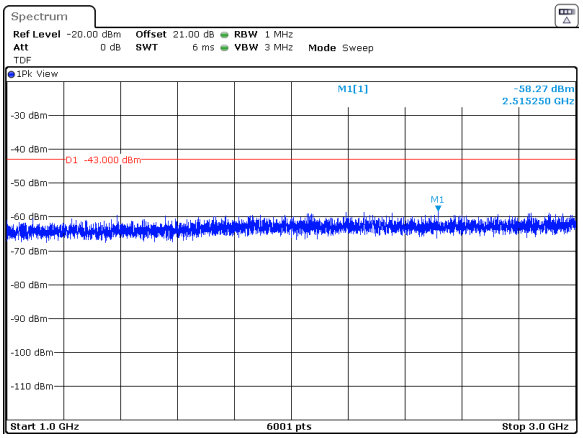
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

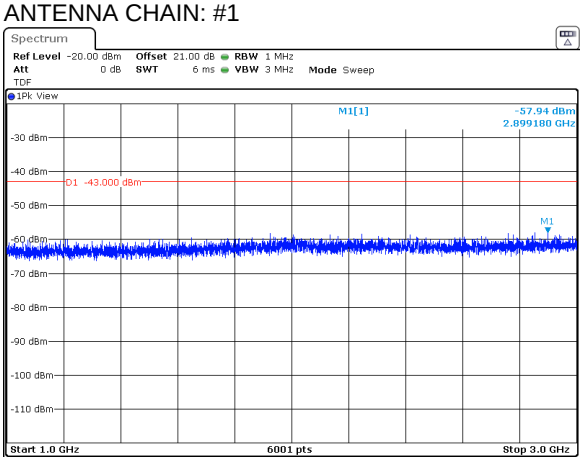


ANTENNA CHAIN: #2

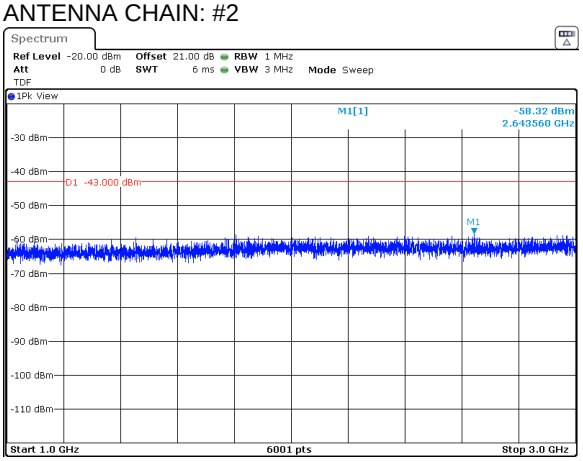


Plot 7.6.12 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



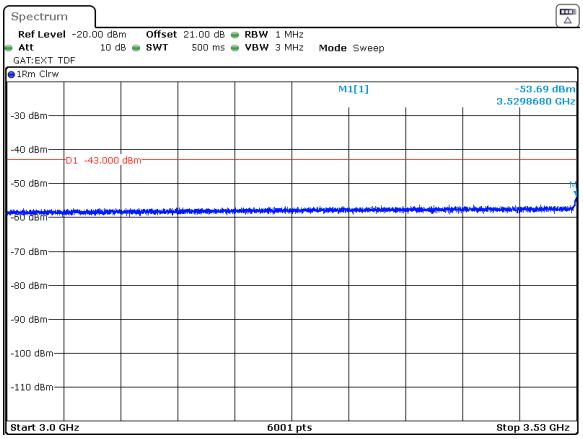
ANTENNA CHAIN: #2



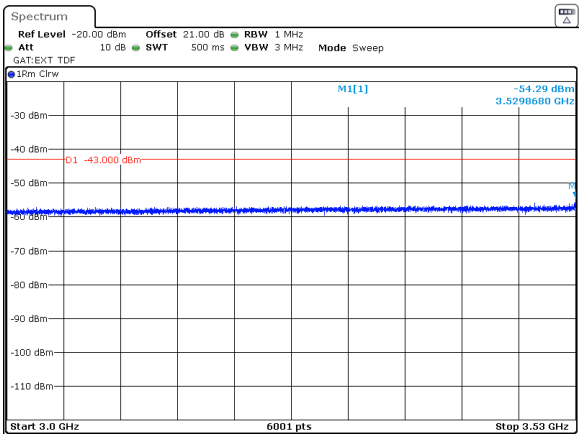
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.13 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

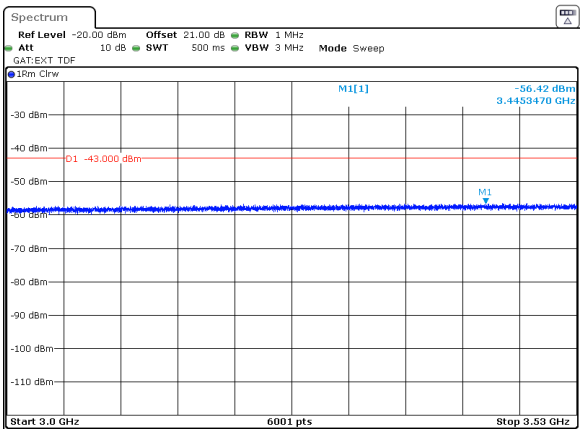


ANTENNA CHAIN: #2

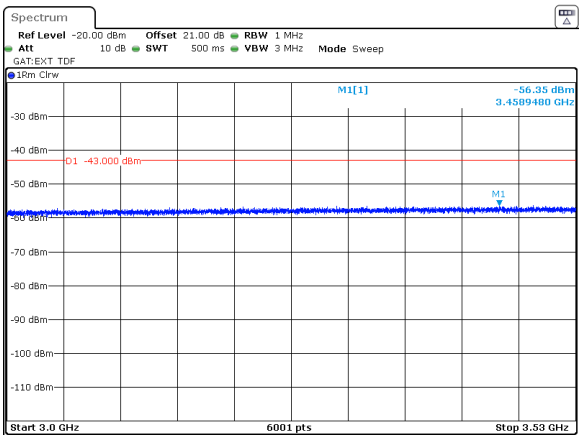


Plot 7.6.14 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



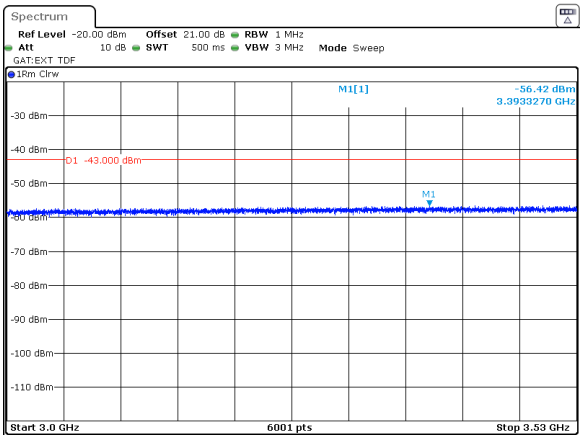
ANTENNA CHAIN: #2



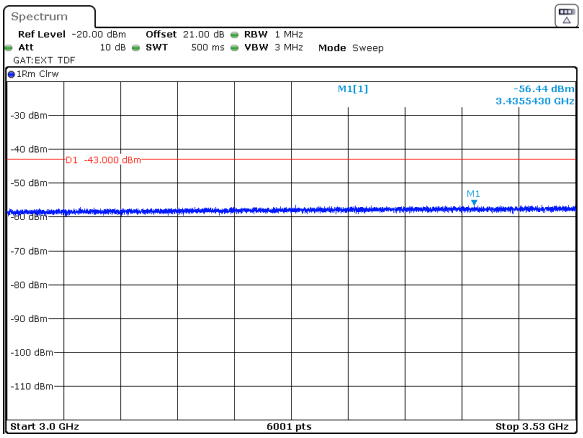
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.15 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

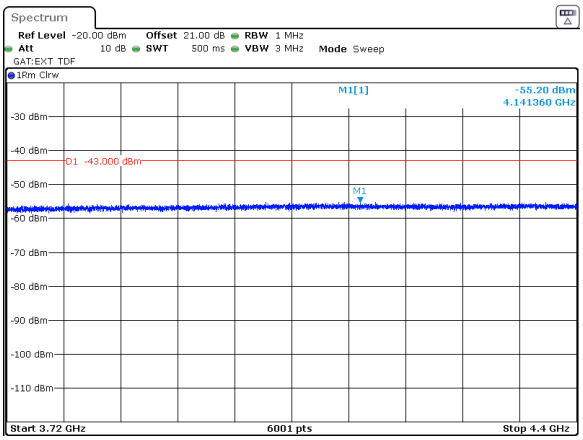


ANTENNA CHAIN: #2

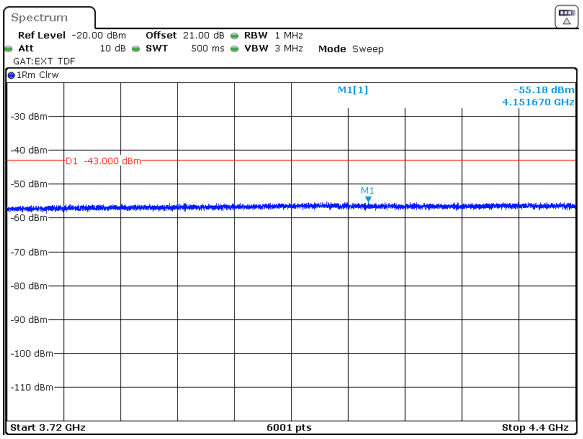


Plot 7.6.16 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



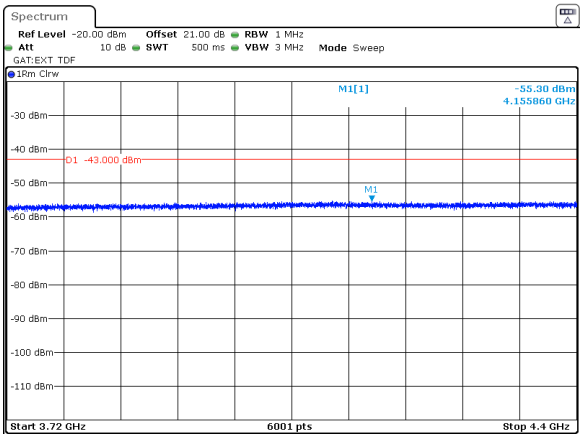
ANTENNA CHAIN: #2



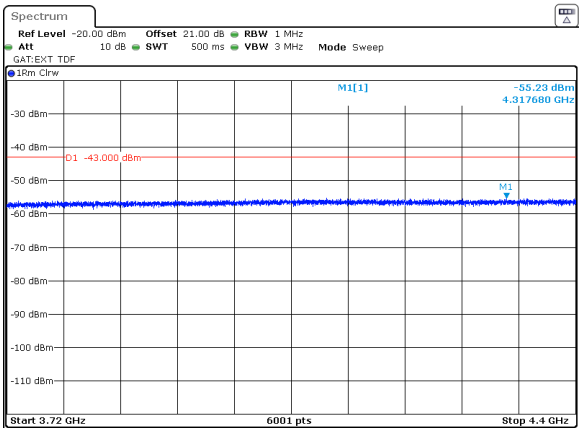
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.17 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

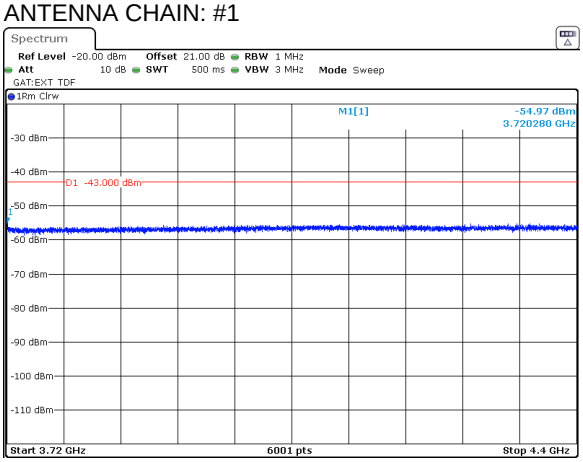


ANTENNA CHAIN: #2

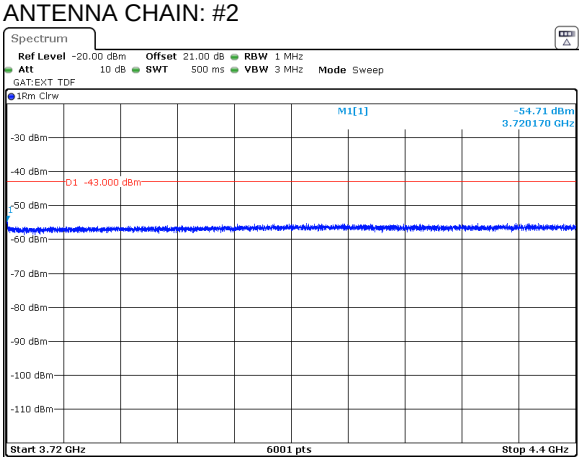


Plot 7.6.18 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



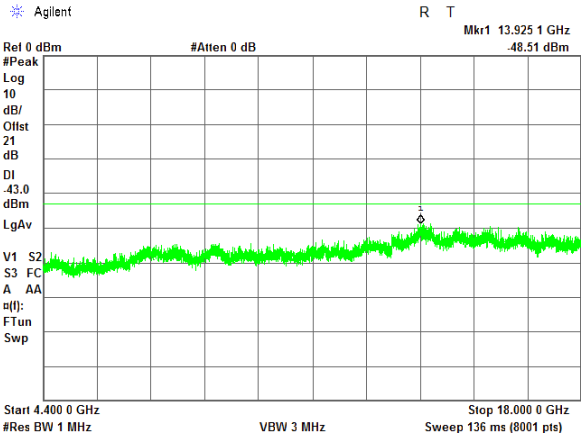
ANTENNA CHAIN: #2



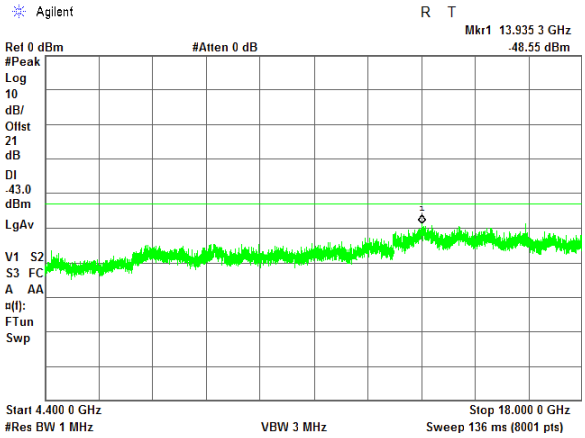
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

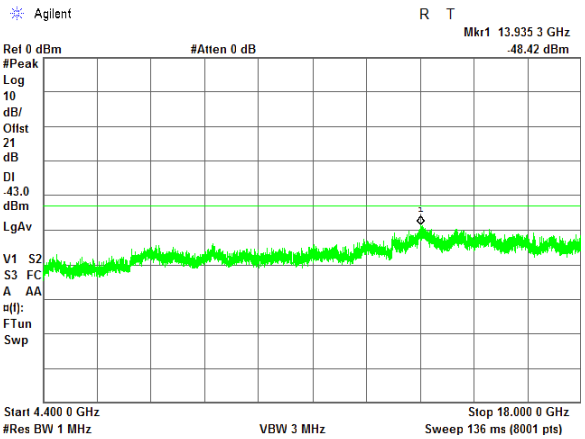


ANTENNA CHAIN: #2

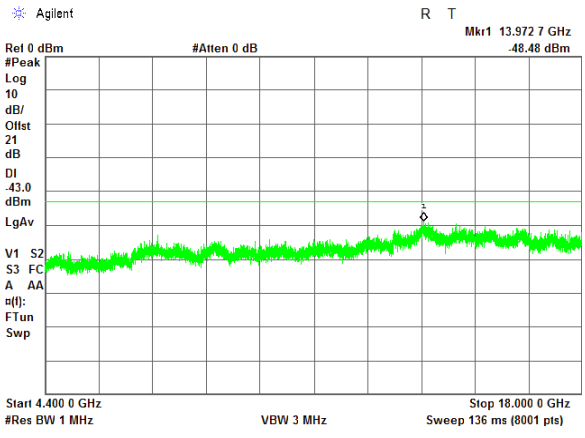


Plot 7.6.20 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



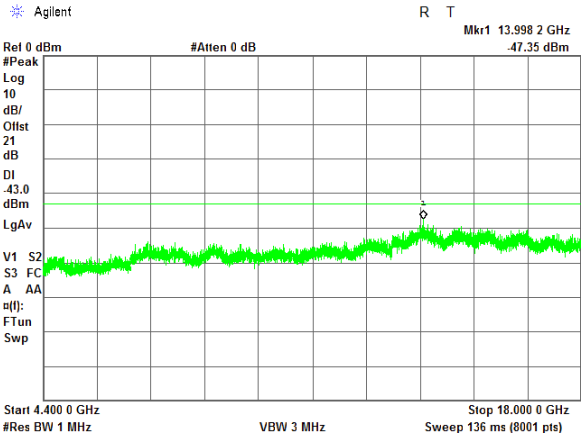
ANTENNA CHAIN: #2



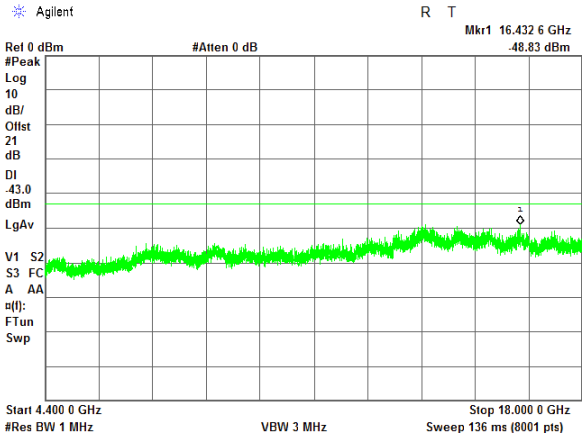
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

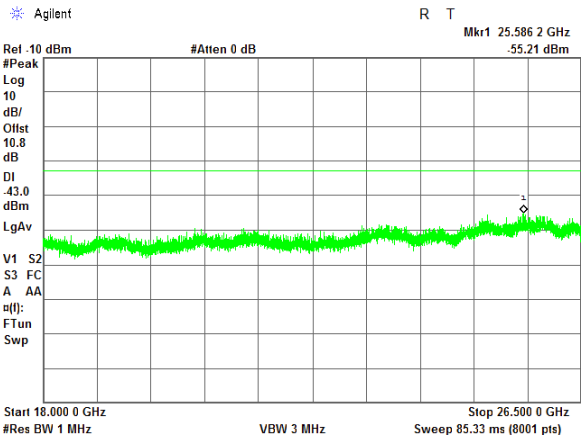


ANTENNA CHAIN: #2

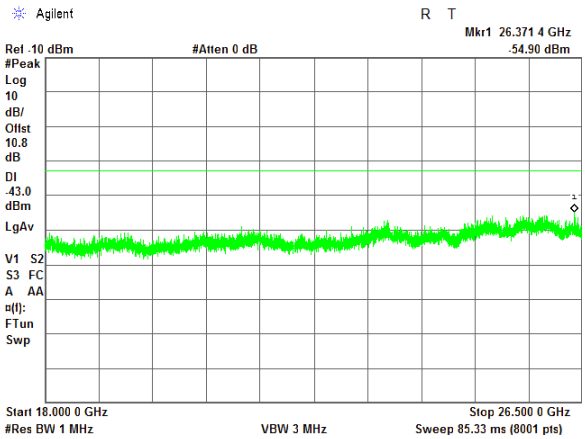


Plot 7.6.22 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



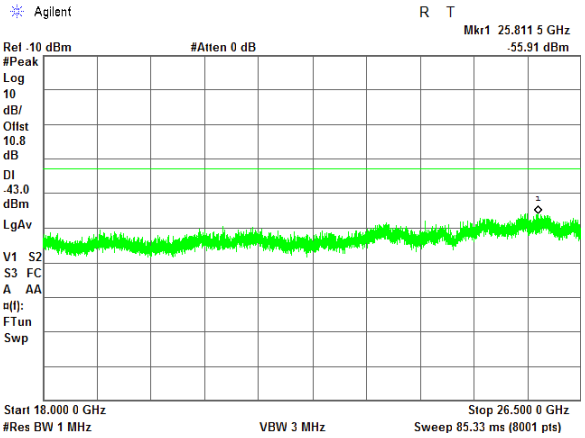
ANTENNA CHAIN: #2



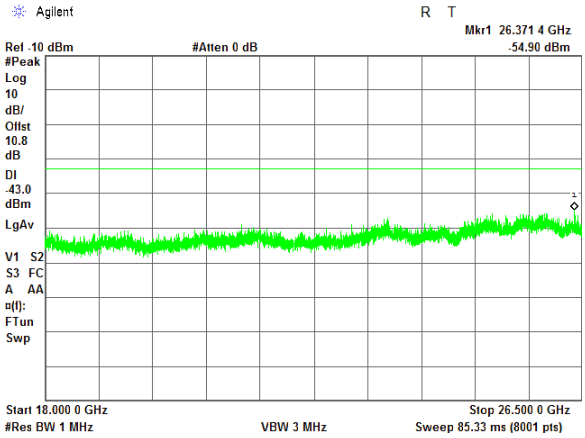
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

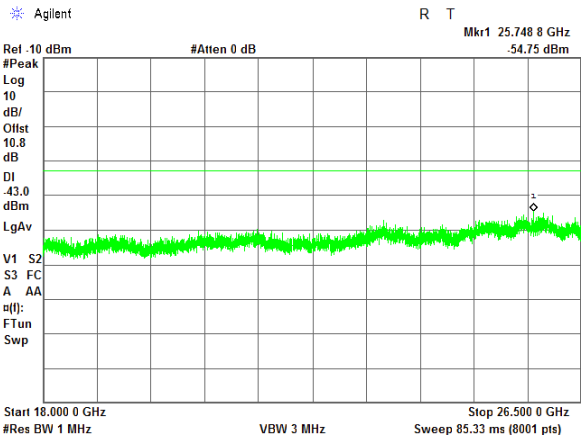


ANTENNA CHAIN: #2

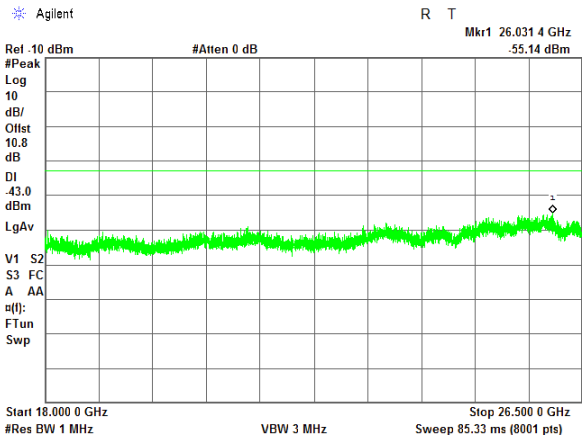


Plot 7.6.24 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



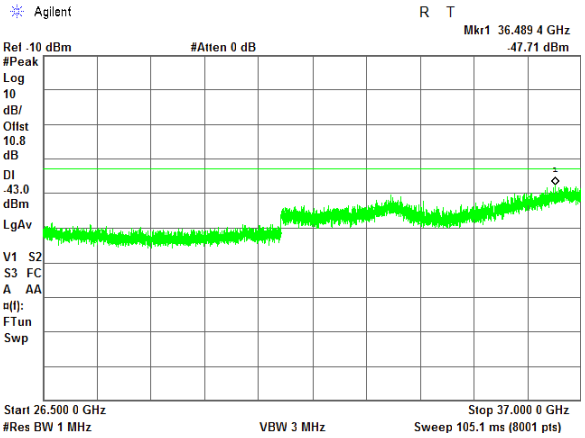
ANTENNA CHAIN: #2



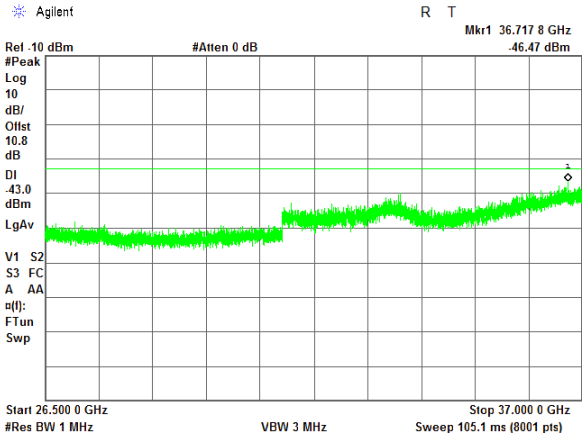
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

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

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1

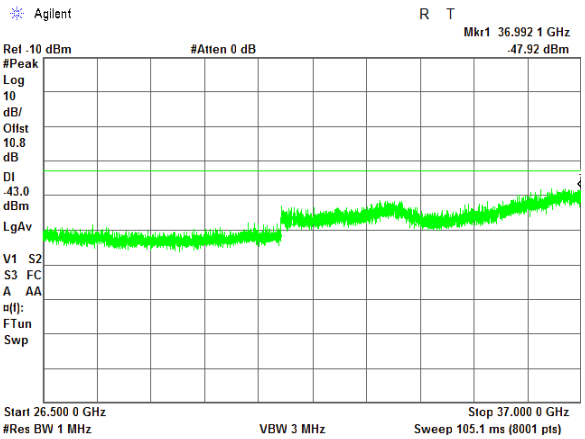


ANTENNA CHAIN: #2

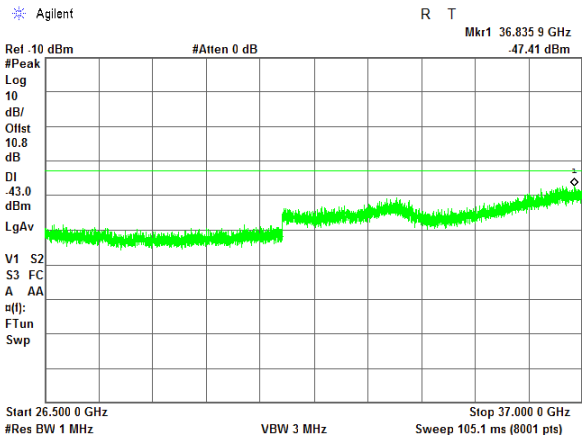


Plot 7.6.26 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



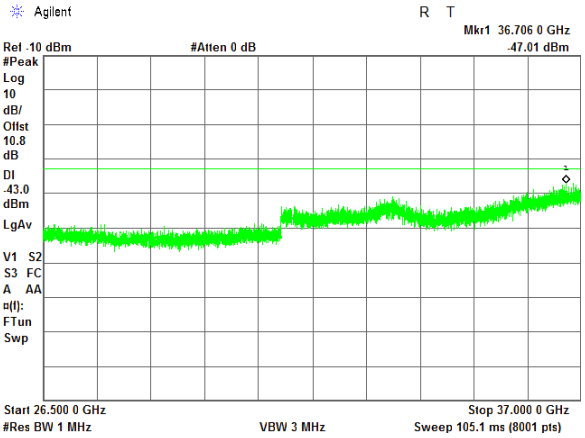
ANTENNA CHAIN: #2



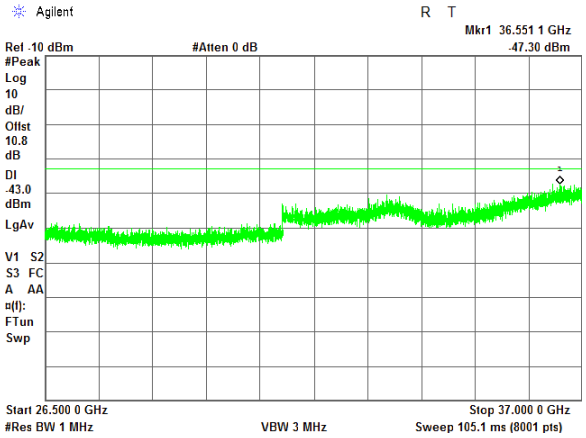
Test specification:	**Section 96.41(e)(3), Conducted spurious emissions**		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	**Verdict:**	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	**Relative Humidity:** 49 %	**Air Pressure:** 1011 hPa	**Power:** 48 VAC
Remarks:			

Plot 7.6.27 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: #1



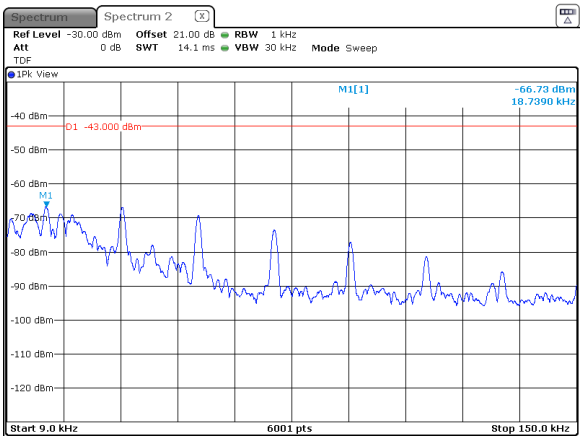
ANTENNA CHAIN: #2



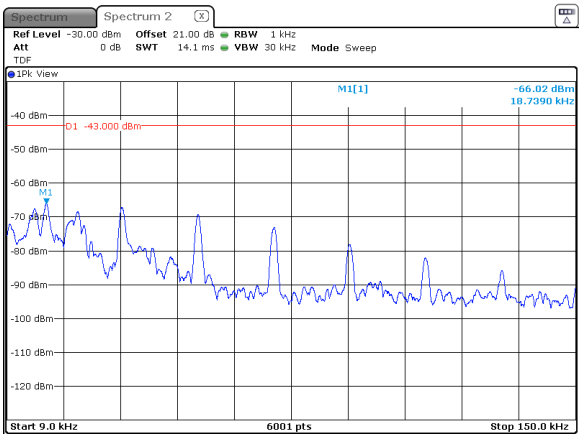
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.28 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

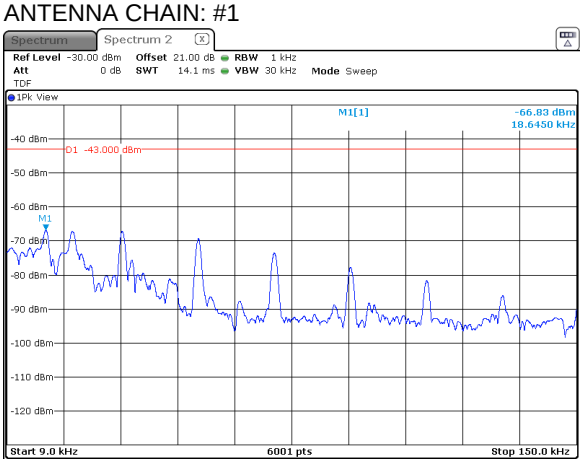


ANTENNA CHAIN: #2

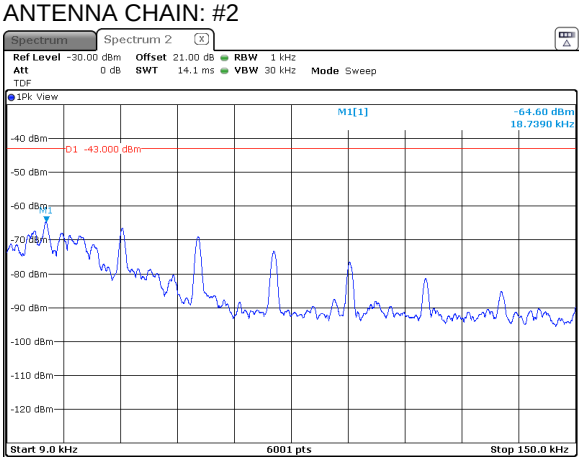


Plot 7.6.29 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



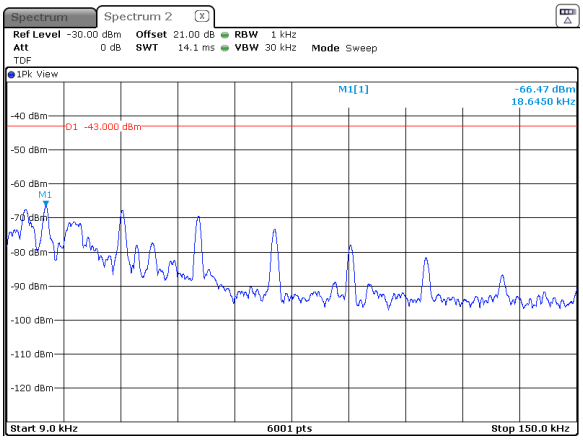
ANTENNA CHAIN: #2



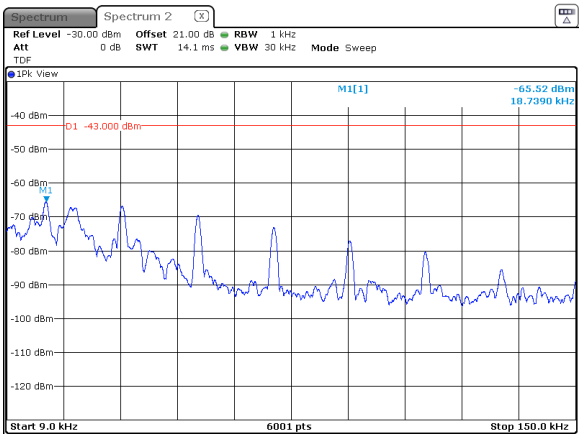
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.30 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

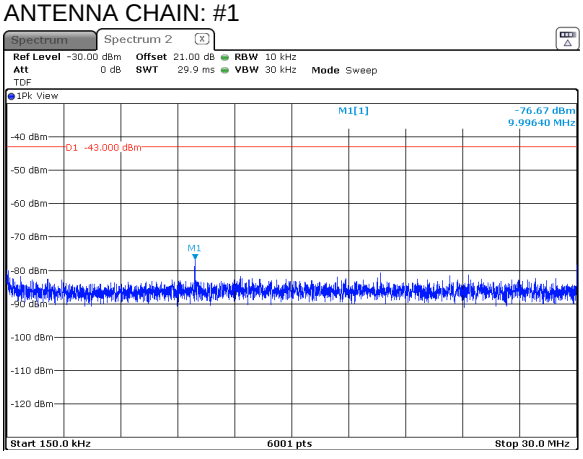


ANTENNA CHAIN: #2

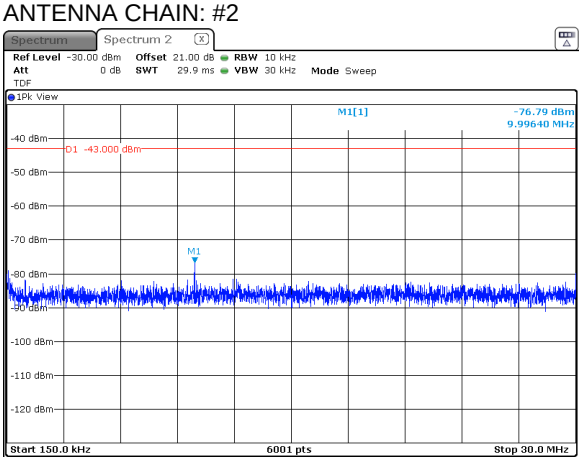


Plot 7.6.31 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



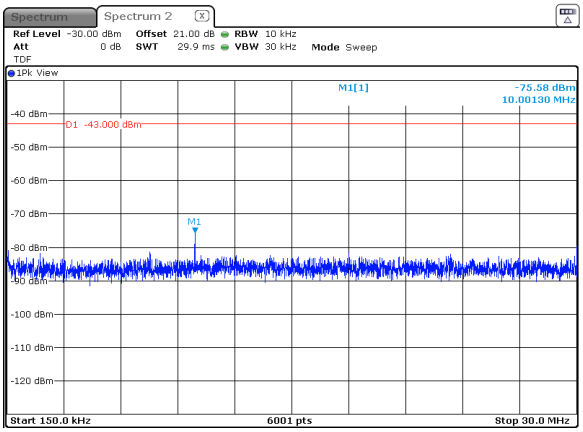
ANTENNA CHAIN: #2



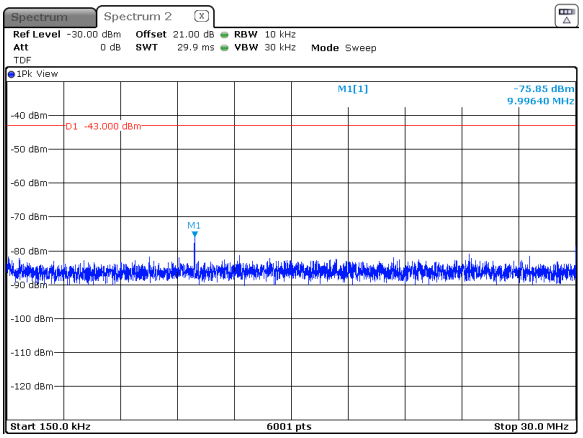
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.32 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

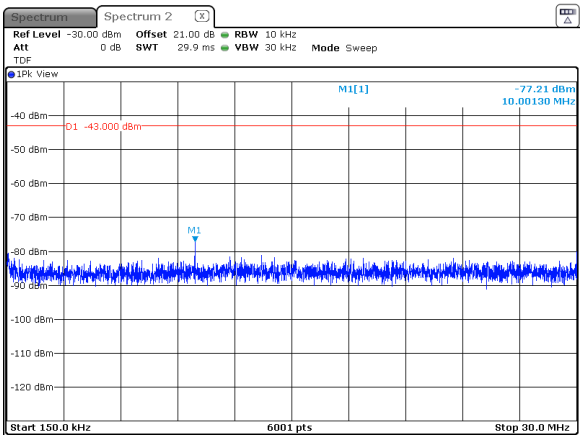


ANTENNA CHAIN: #2

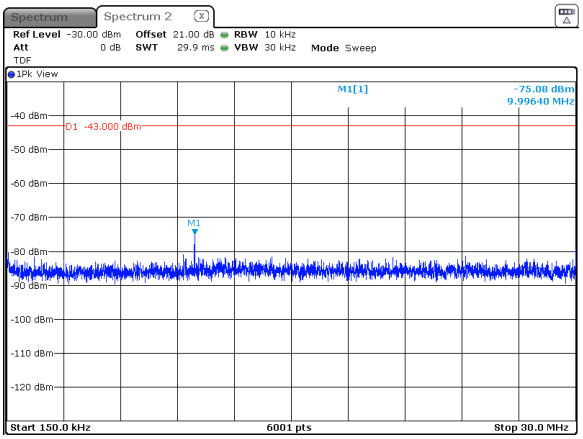


Plot 7.6.33 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



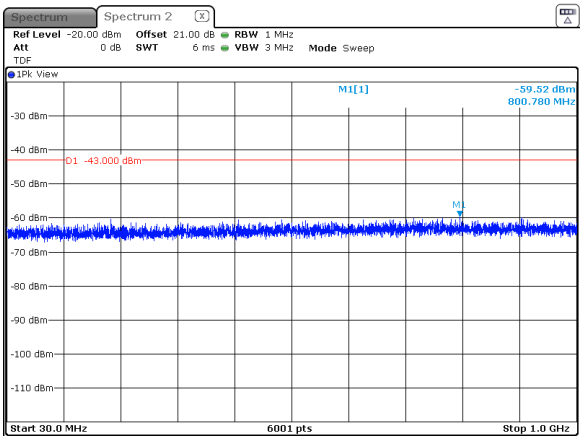
ANTENNA CHAIN: #2



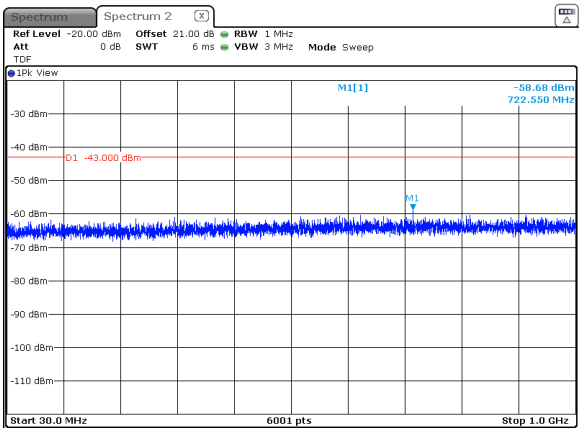
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.34 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

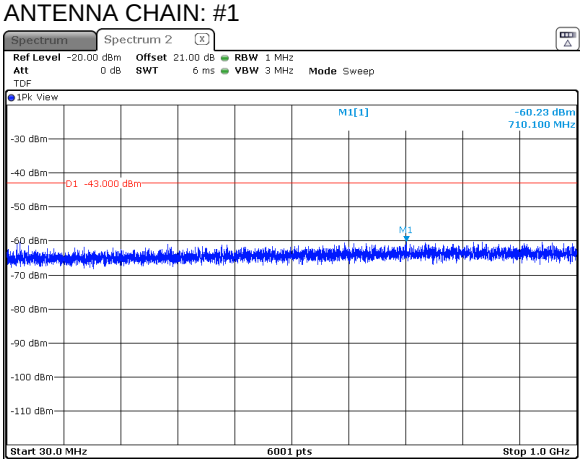


QPSK
20 MHz
ANTENNA CHAIN: #2

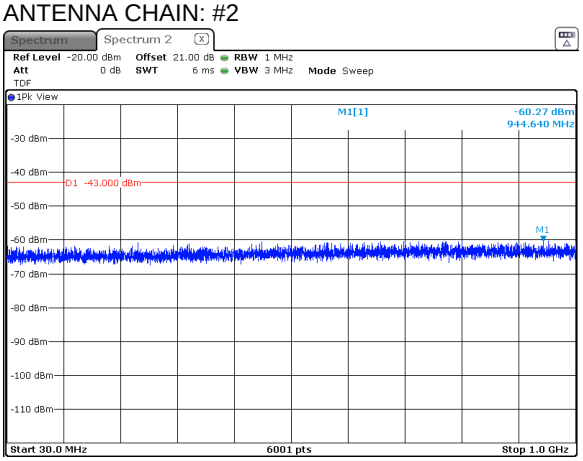


Plot 7.6.35 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



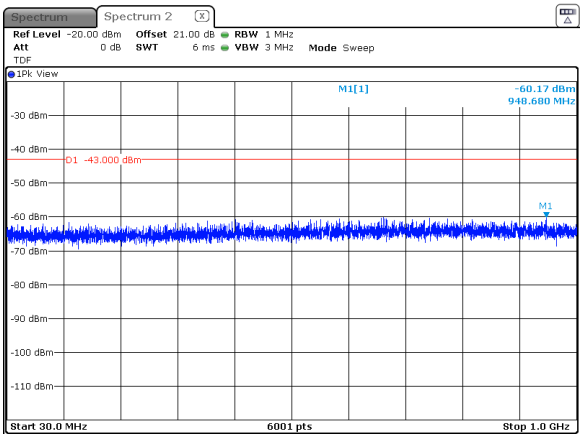
QPSK
20 MHz
ANTENNA CHAIN: #2



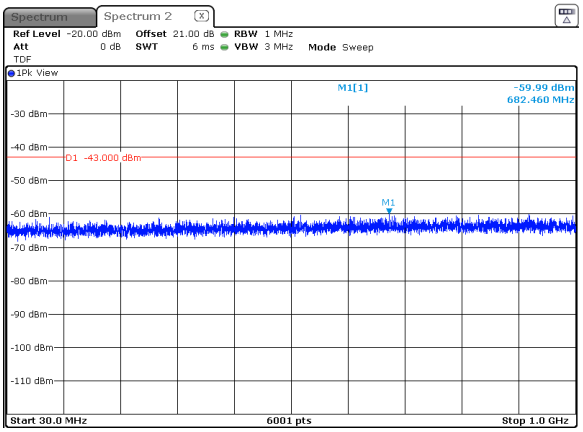
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.36 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

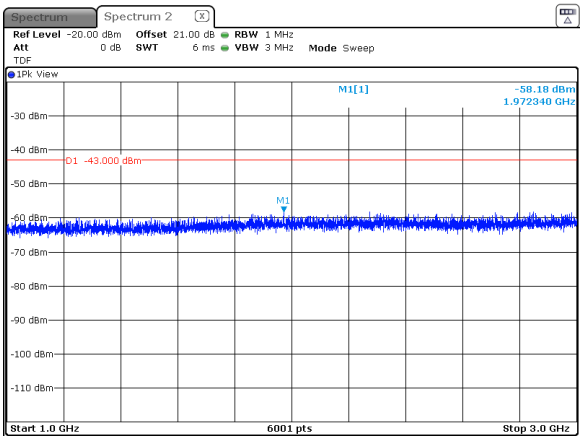


ANTENNA CHAIN: #2

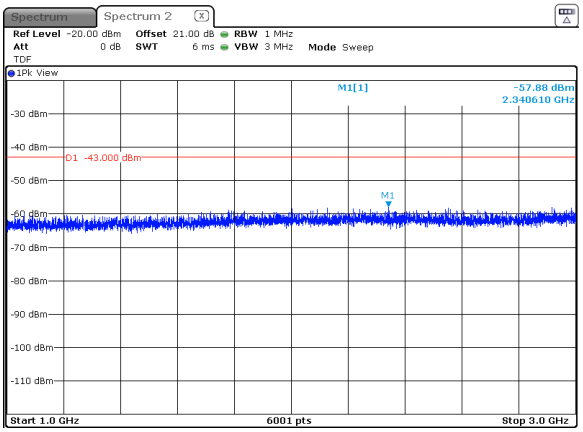


Plot 7.6.37 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



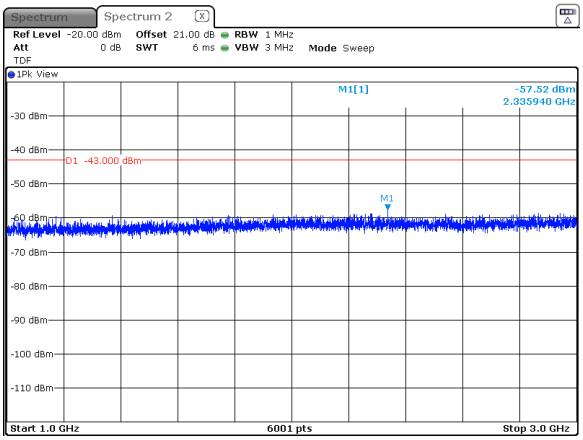
ANTENNA CHAIN: #2



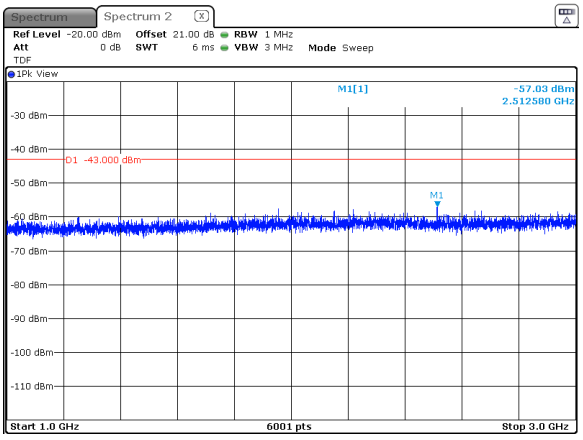
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.38 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

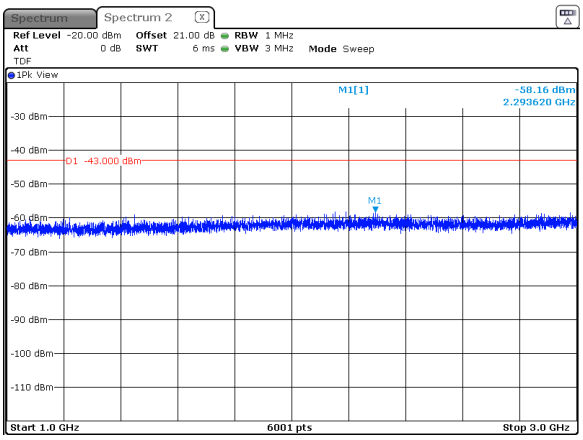


ANTENNA CHAIN: #2

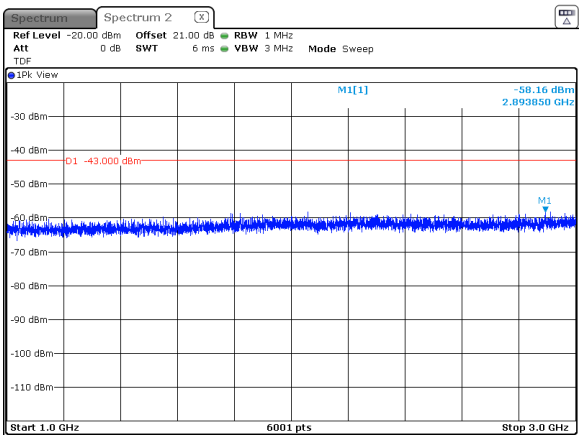


Plot 7.6.39 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



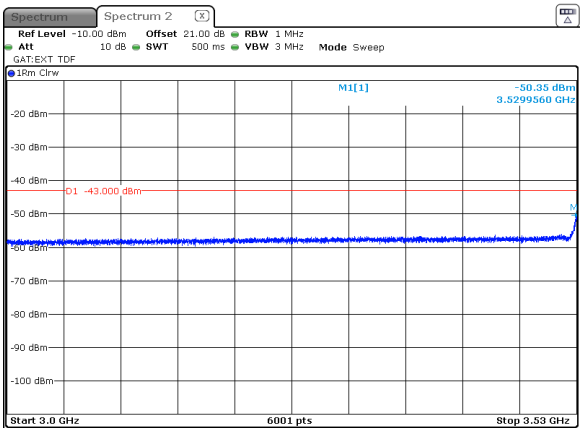
ANTENNA CHAIN: #2



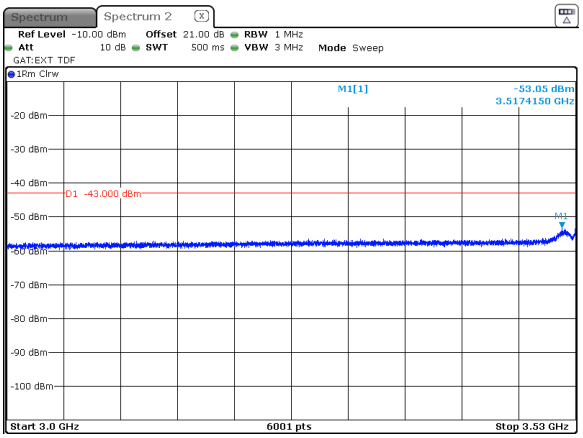
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.40 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

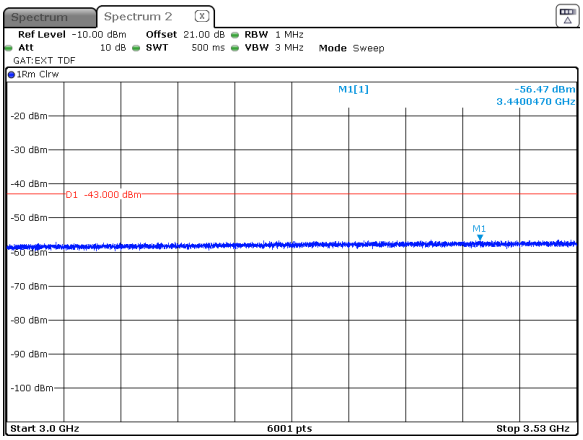


ANTENNA CHAIN: #2

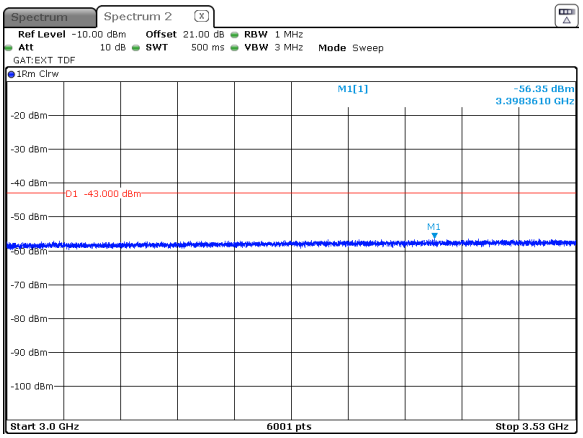


Plot 7.6.41 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



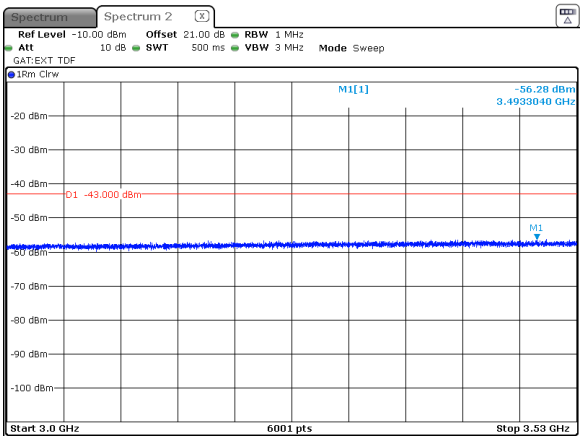
ANTENNA CHAIN: #2



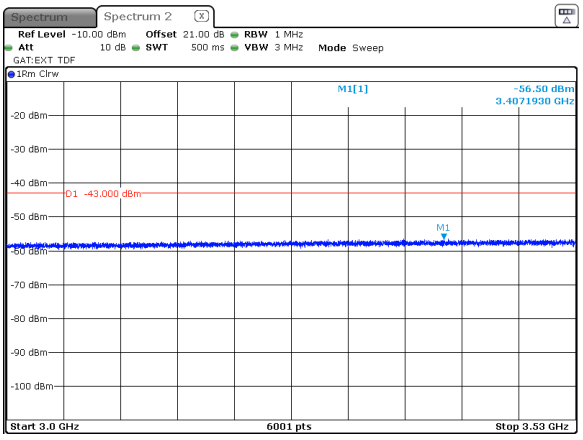
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.42 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

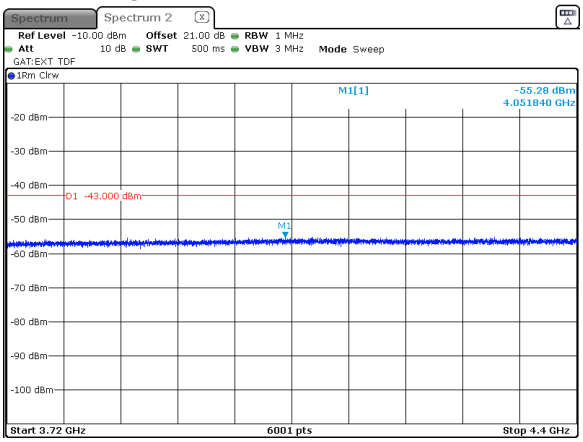


QPSK
20 MHz
ANTENNA CHAIN: #2

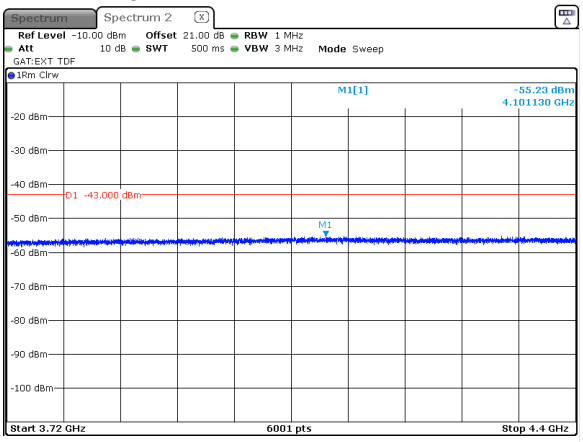


Plot 7.6.43 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



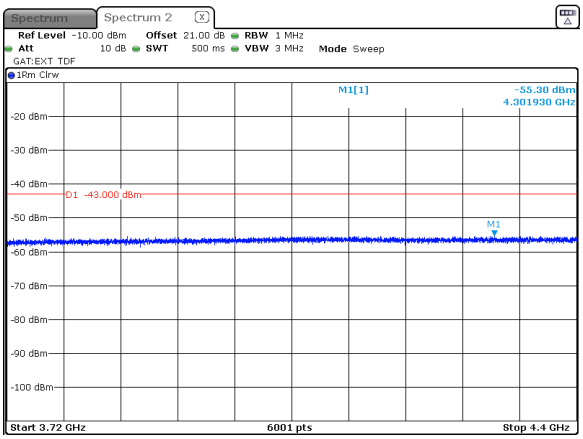
QPSK
20 MHz
ANTENNA CHAIN: #2



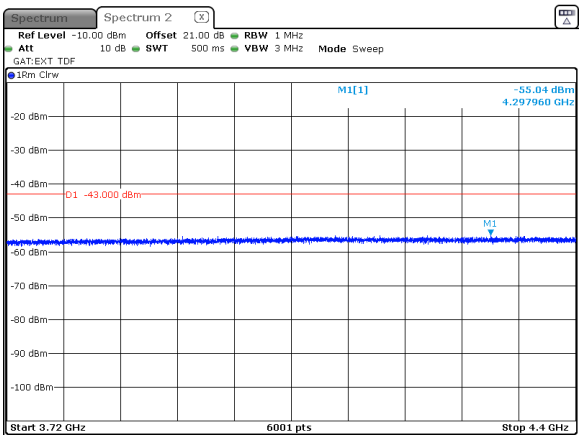
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.44 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

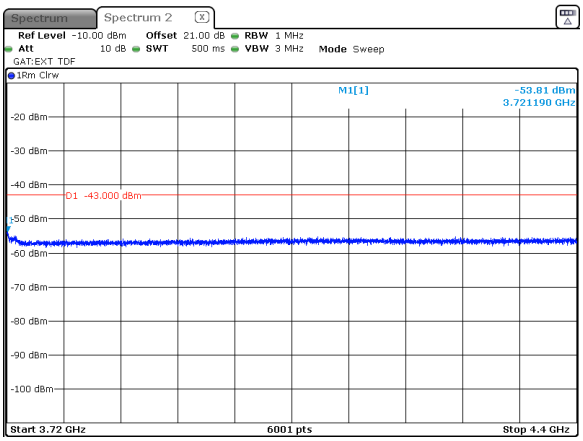


ANTENNA CHAIN: #2

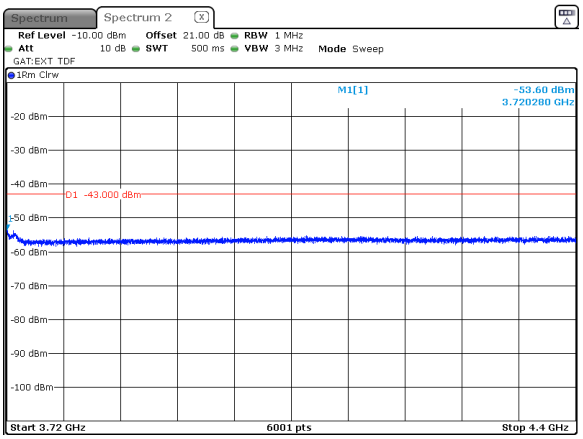


Plot 7.6.45 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



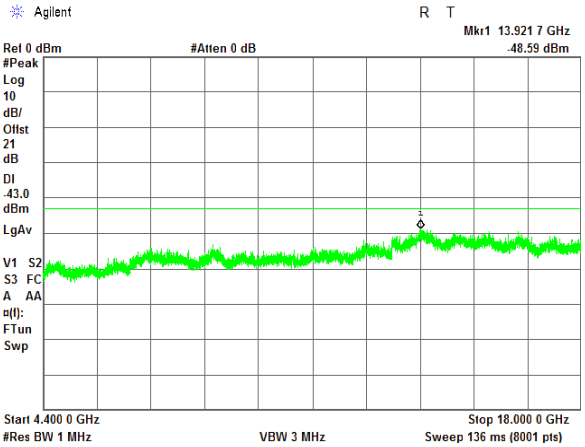
ANTENNA CHAIN: #2



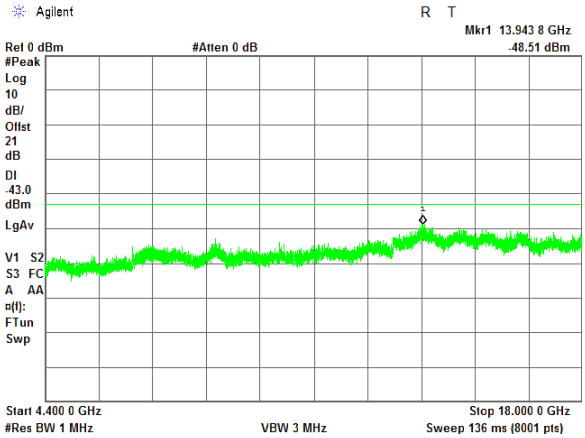
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.46 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

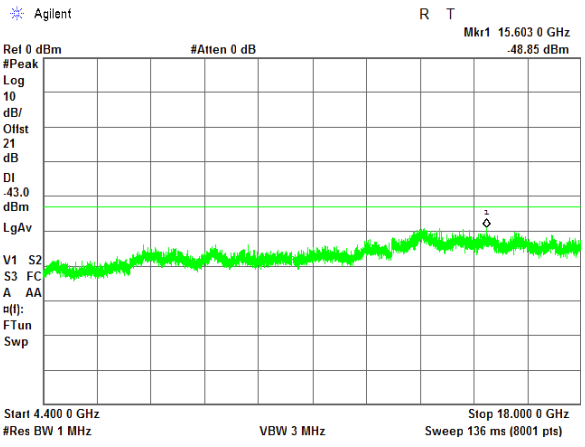


ANTENNA CHAIN: #2

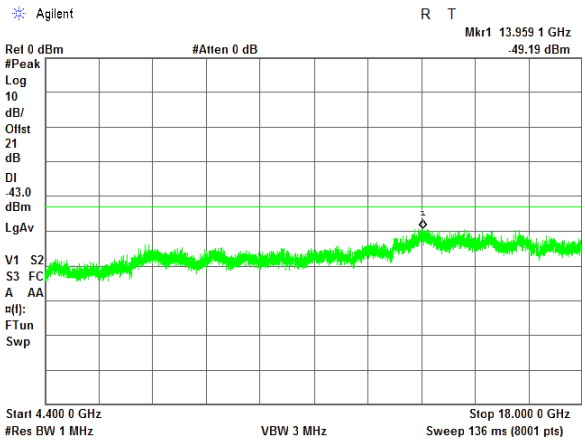


Plot 7.6.47 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



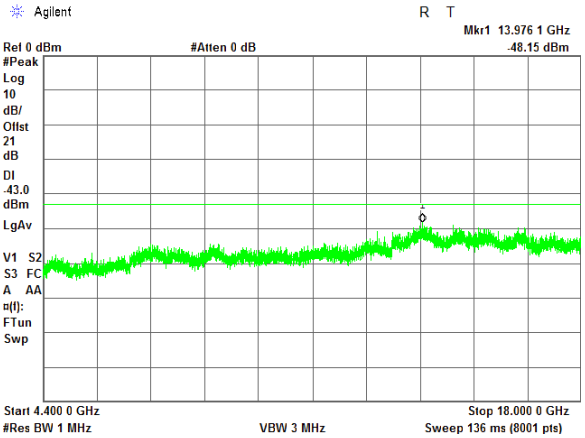
ANTENNA CHAIN: #2



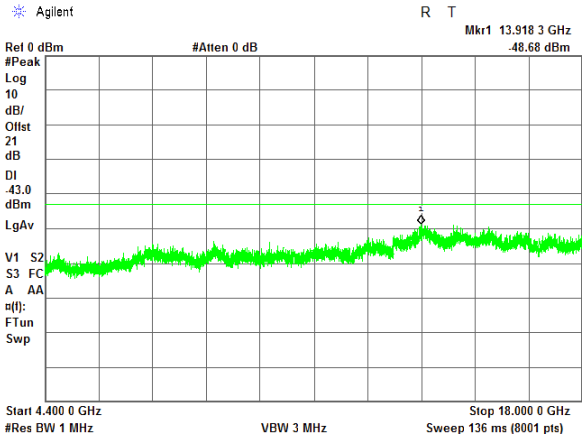
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.48 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

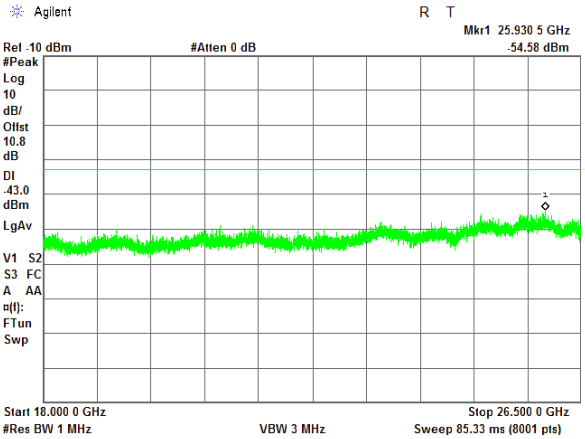


ANTENNA CHAIN: #2

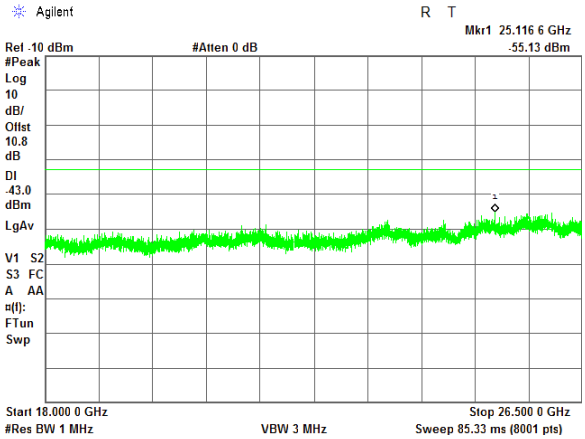


Plot 7.6.49 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



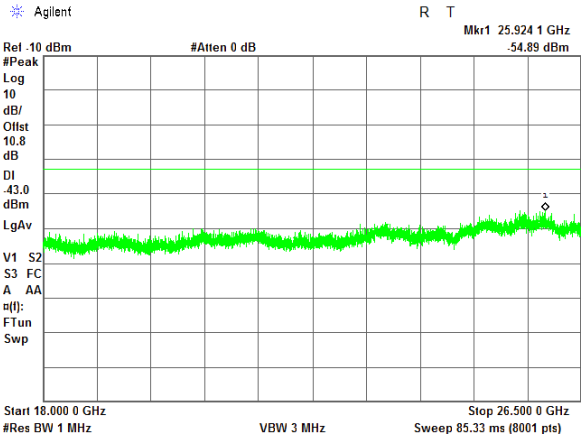
ANTENNA CHAIN: #2



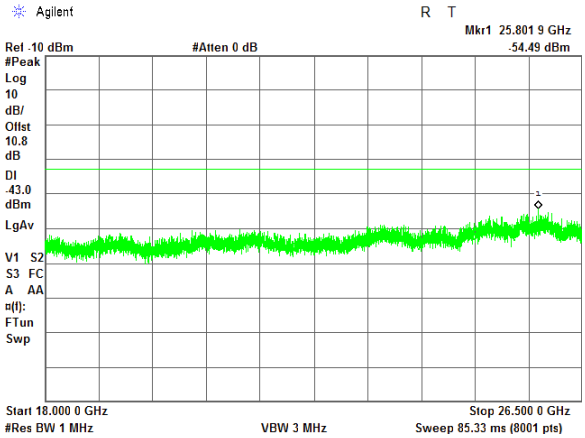
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.50 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

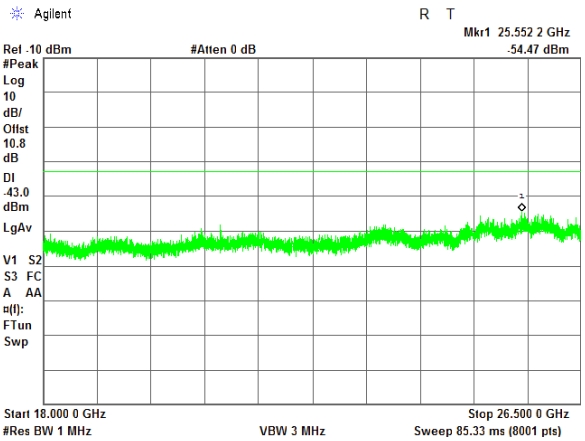


ANTENNA CHAIN: #2

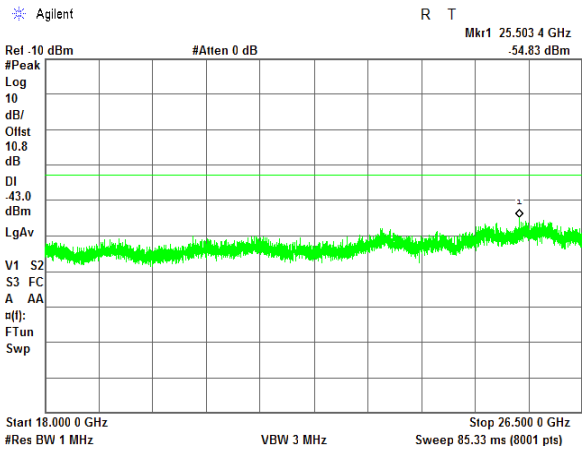


Plot 7.6.51 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



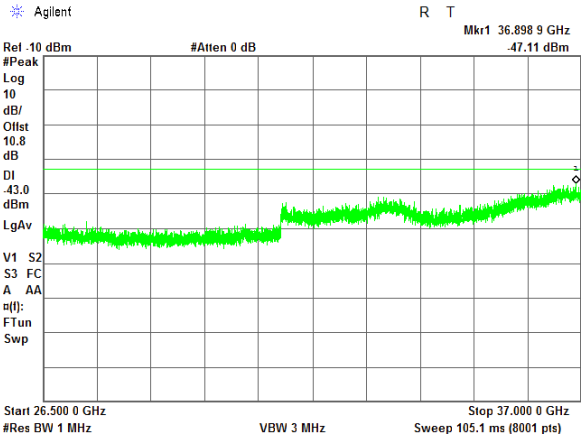
ANTENNA CHAIN: #2



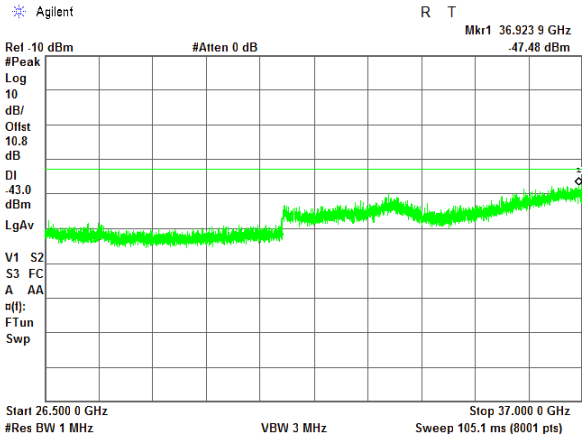
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.52 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

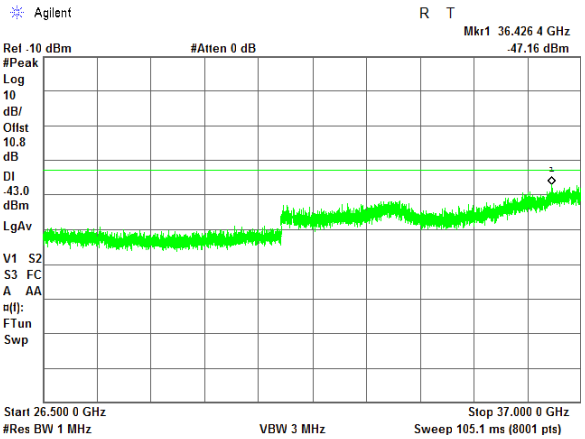


ANTENNA CHAIN: #2

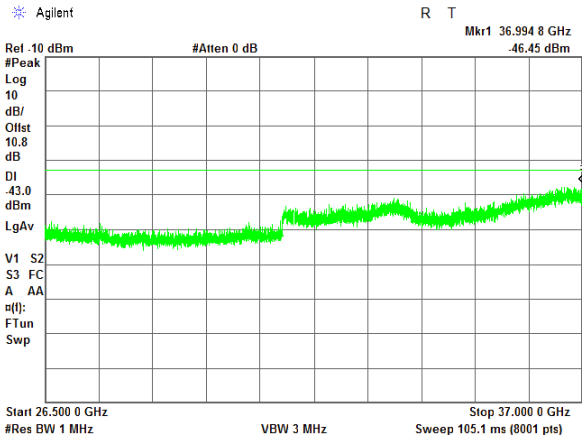


Plot 7.6.53 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1



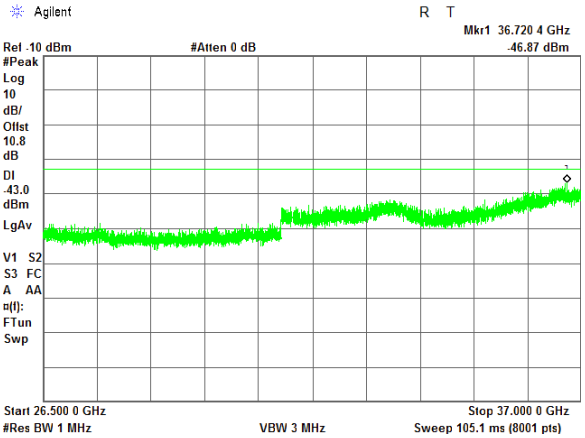
ANTENNA CHAIN: #2



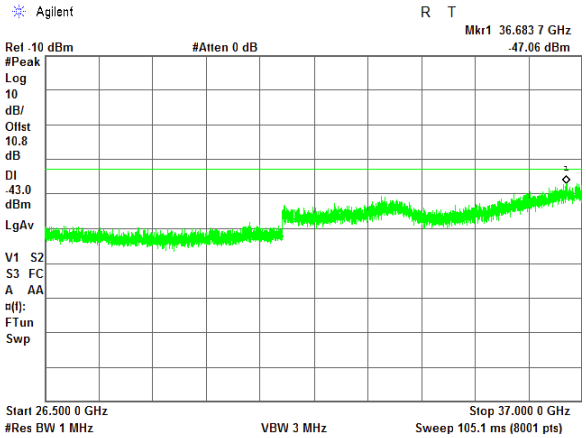
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.54 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #1

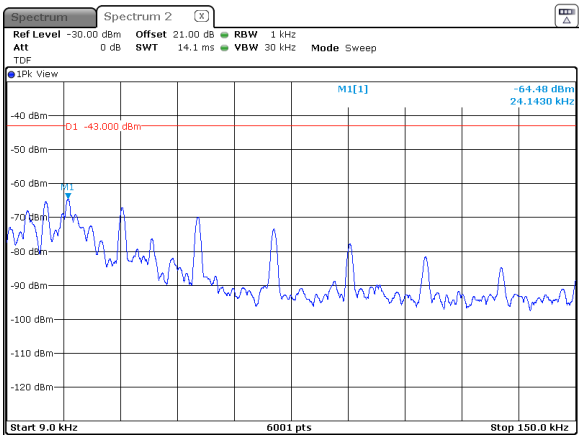


MODULATION: QPSK
CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: #2

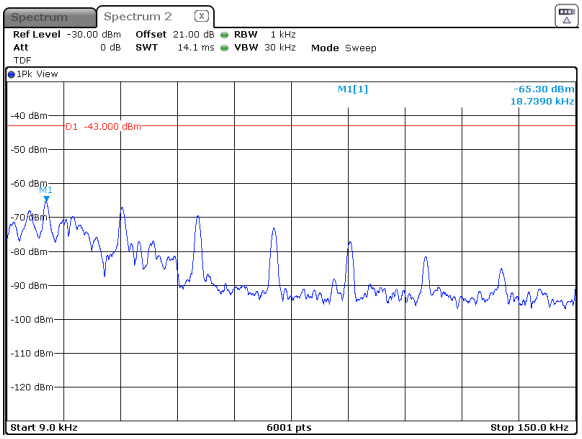


Plot 7.6.55 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



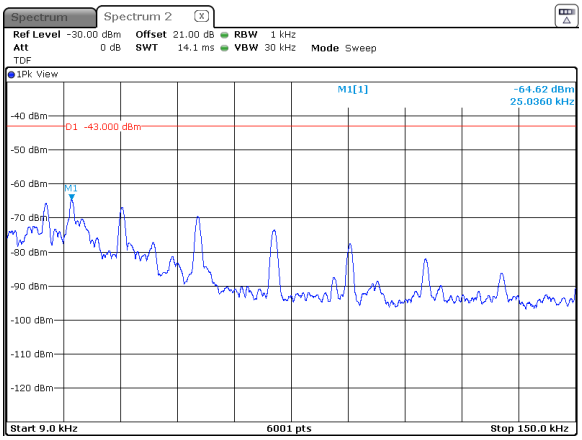
MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #2



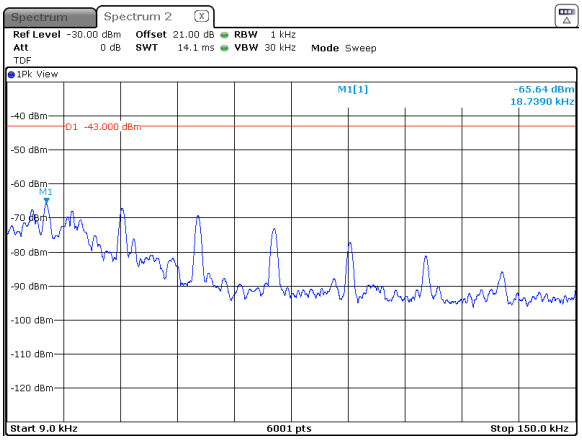
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.56 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

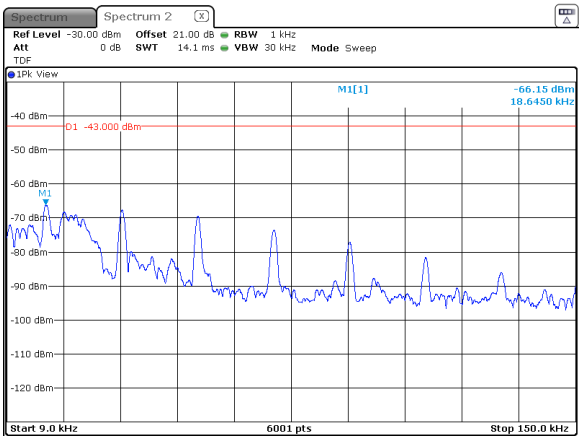


ANTENNA CHAIN: #2

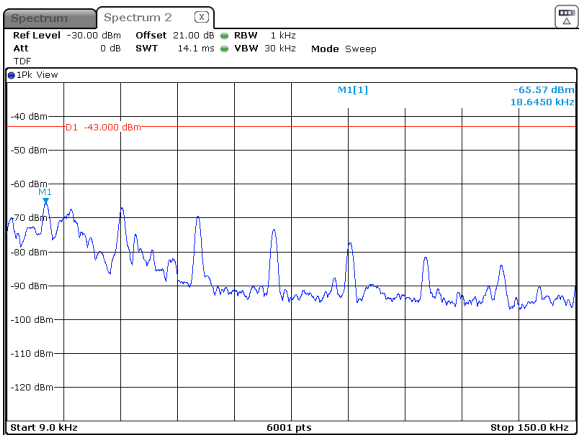


Plot 7.6.57 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



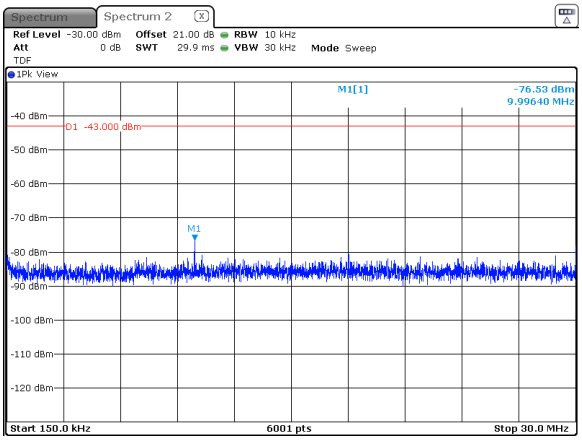
ANTENNA CHAIN: #2



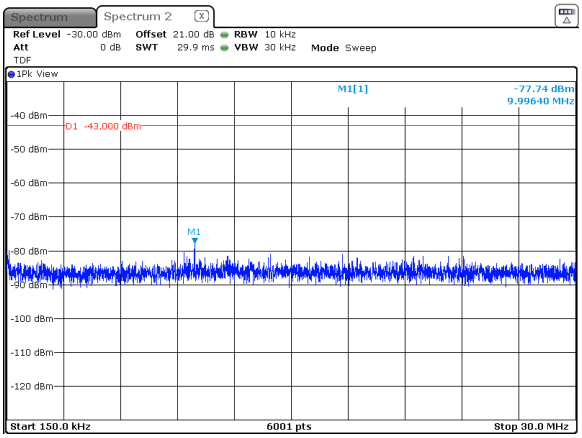
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.58 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

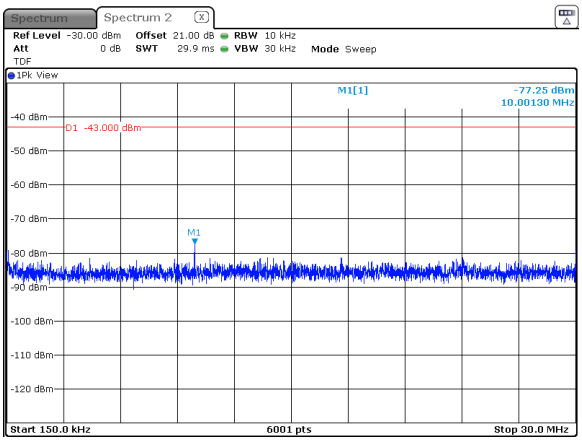


ANTENNA CHAIN: #2

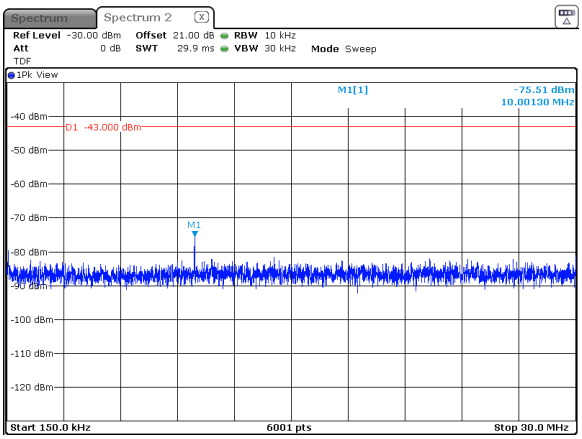


Plot 7.6.59 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



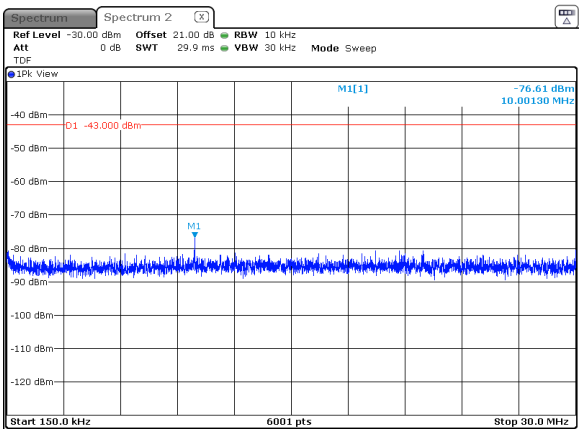
ANTENNA CHAIN: #2



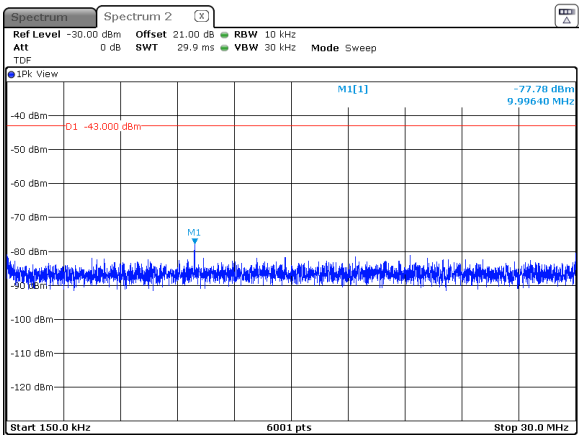
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.60 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

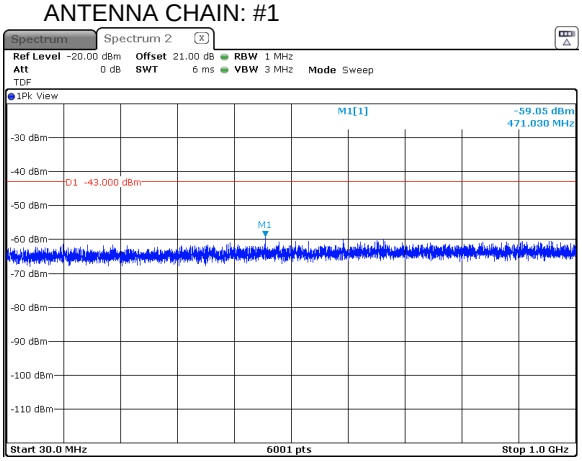


QPSK
40 MHz
ANTENNA CHAIN: #2

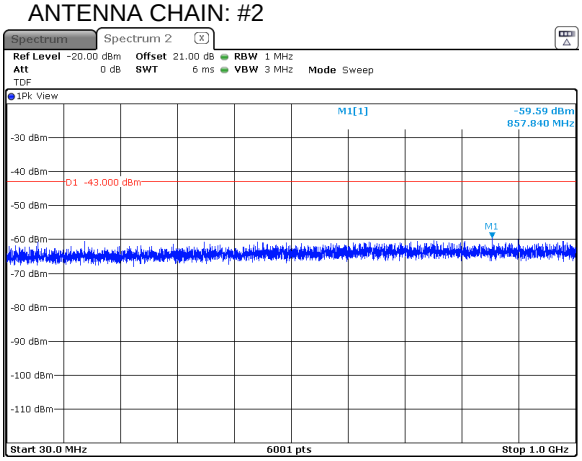


Plot 7.6.61 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



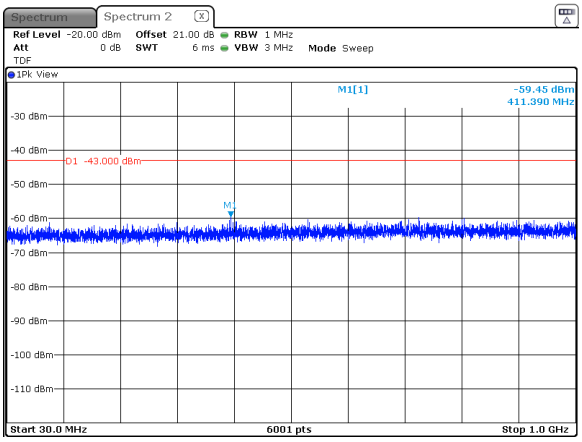
QPSK
40 MHz
ANTENNA CHAIN: #2



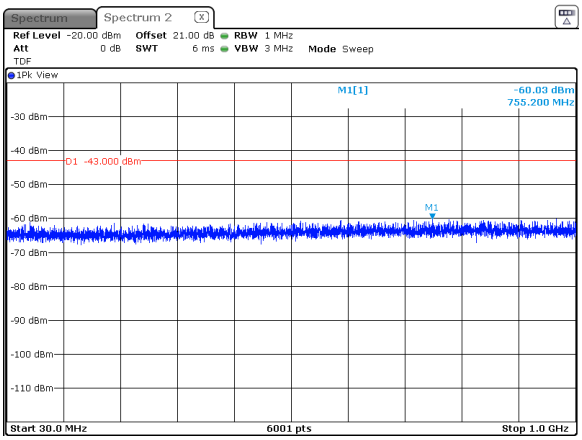
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.62 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

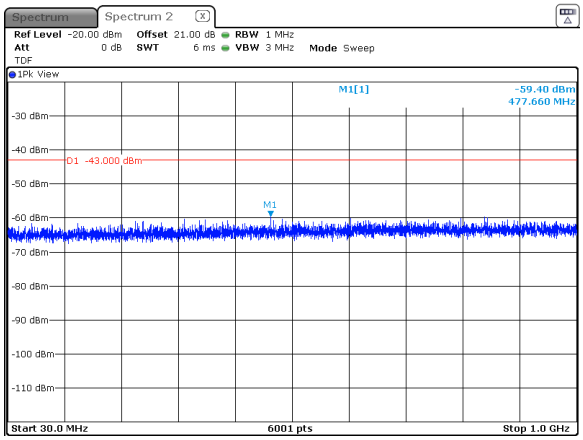


ANTENNA CHAIN: #2

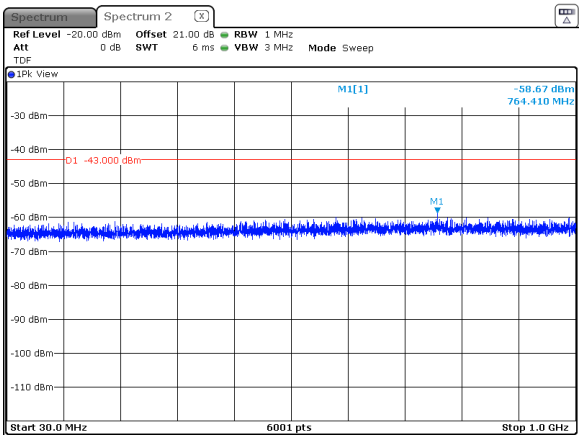


Plot 7.6.63 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



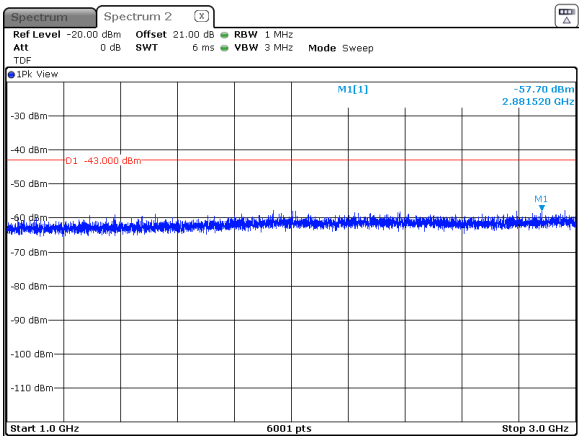
ANTENNA CHAIN: #2

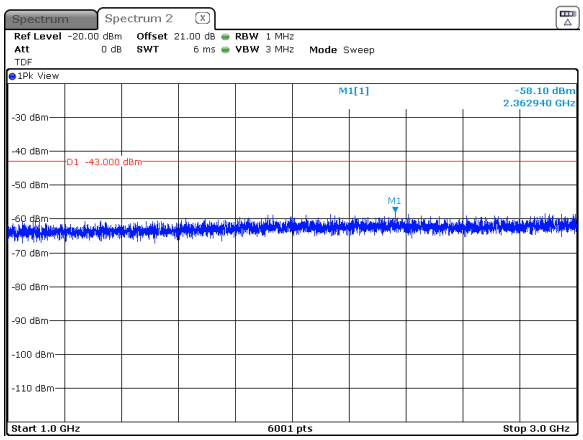


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.64 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency

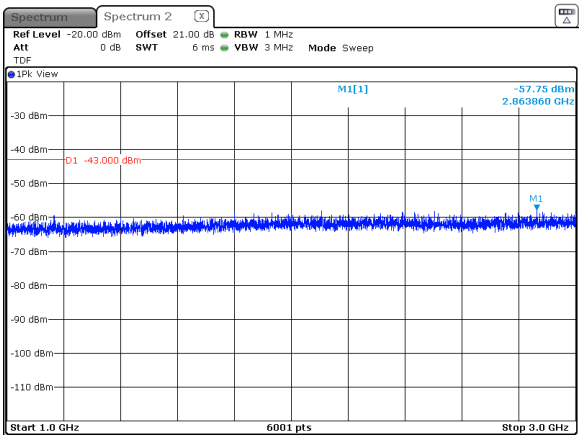
MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1 ANTENNA CHAIN: #2

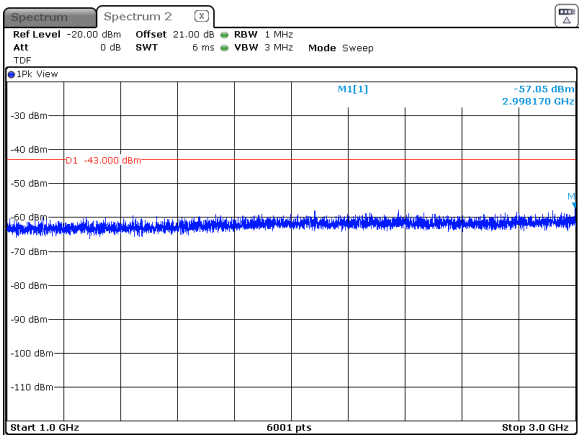




Plot 7.6.65 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1 ANTENNA CHAIN: #2

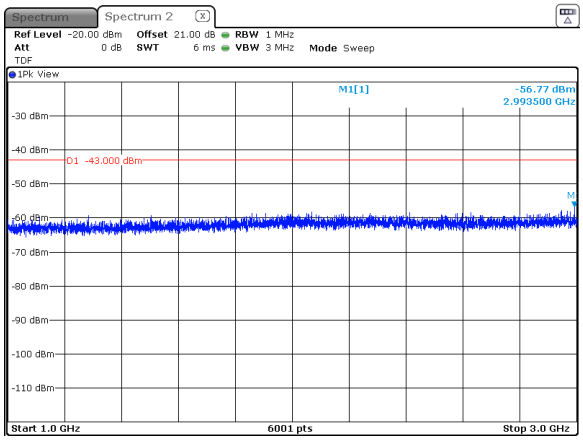




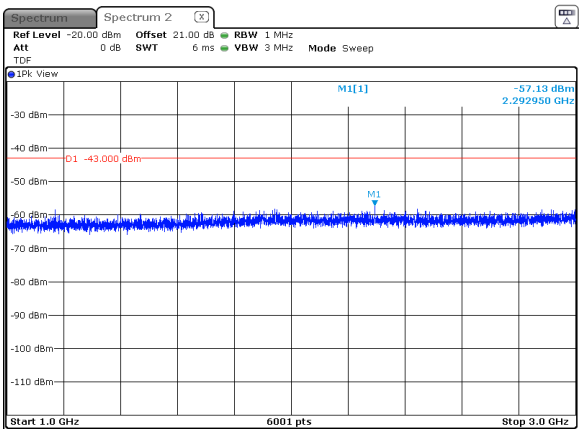
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.66 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

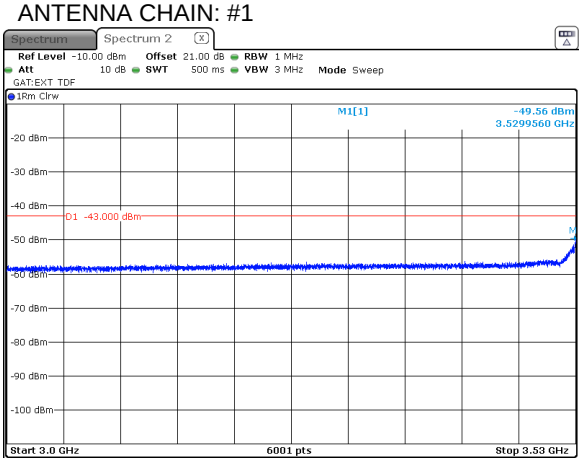


ANTENNA CHAIN: #2

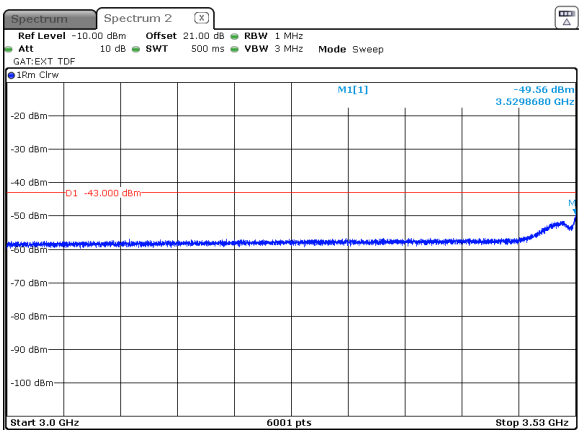


Plot 7.6.67 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



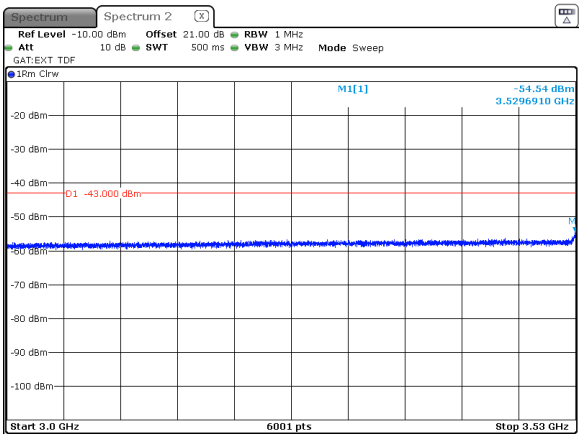
ANTENNA CHAIN: #2



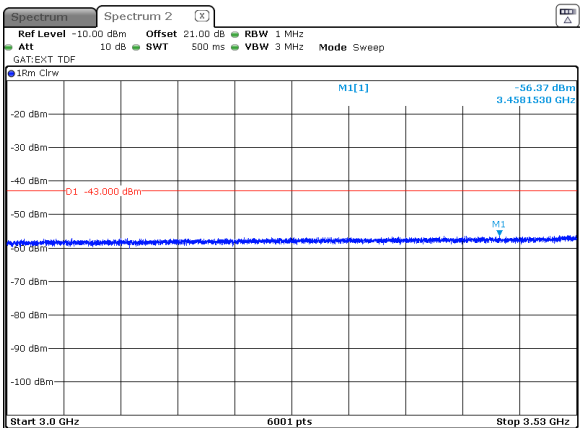
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.68 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

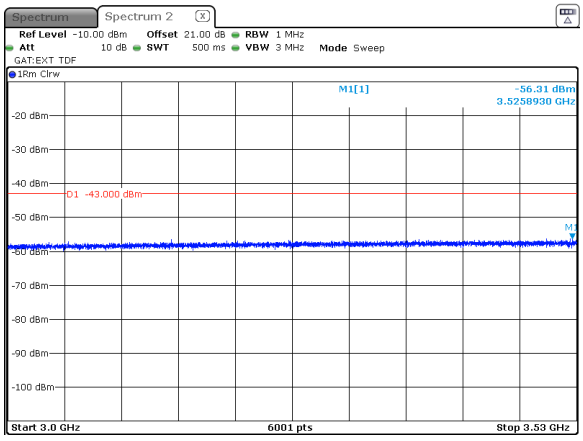


ANTENNA CHAIN: #2

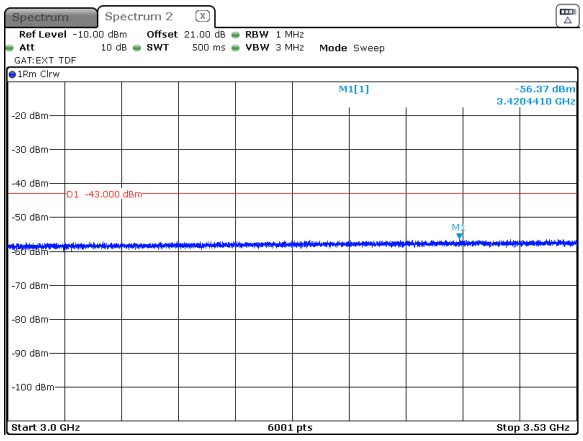


Plot 7.6.69 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



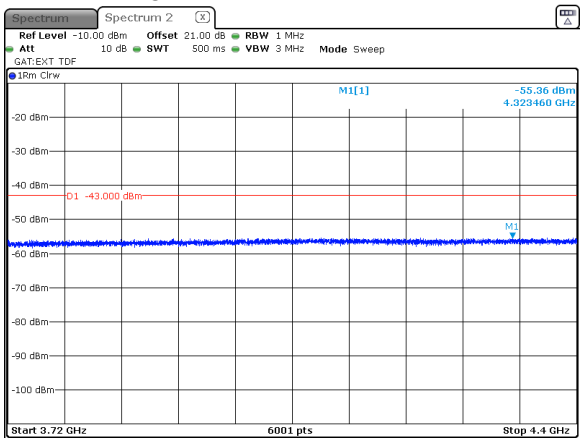
ANTENNA CHAIN: #2



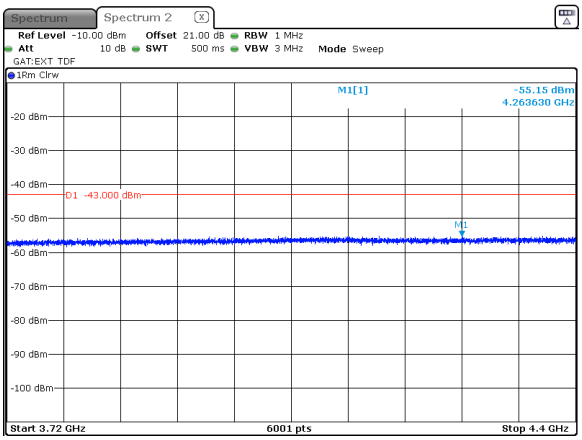
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.70 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

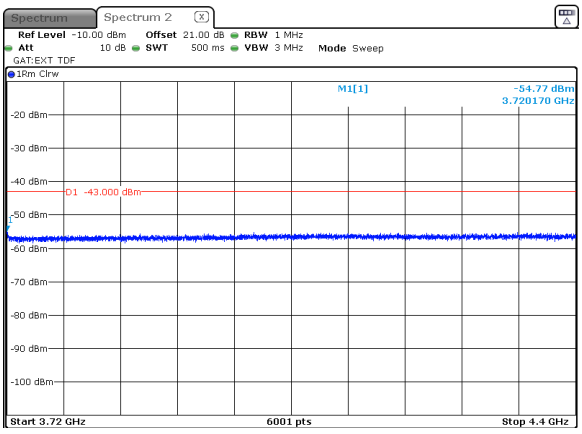


ANTENNA CHAIN: #2

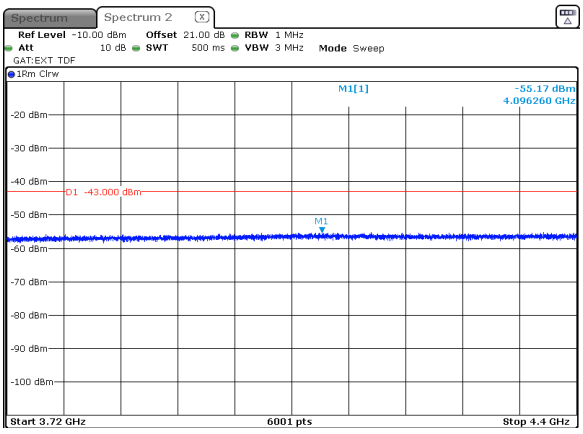


Plot 7.6.71 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



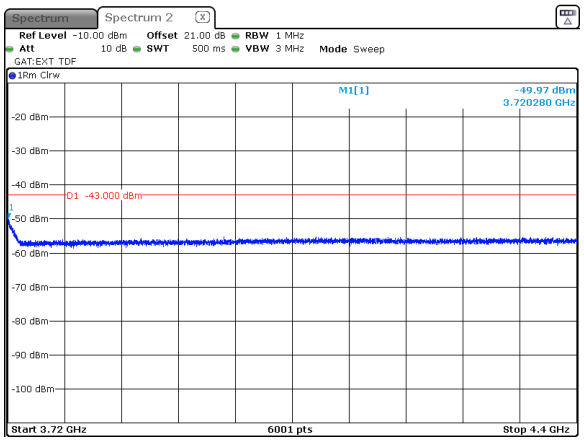
ANTENNA CHAIN: #2



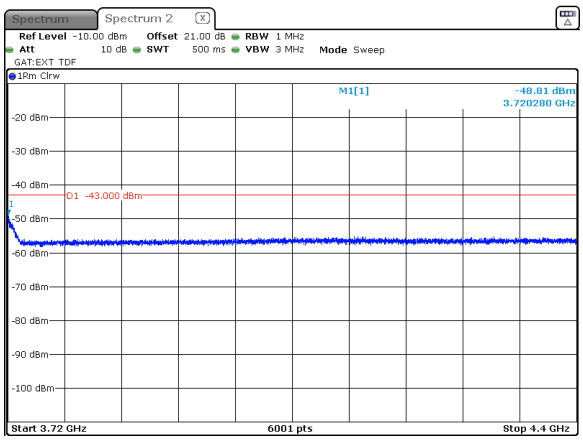
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.72 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

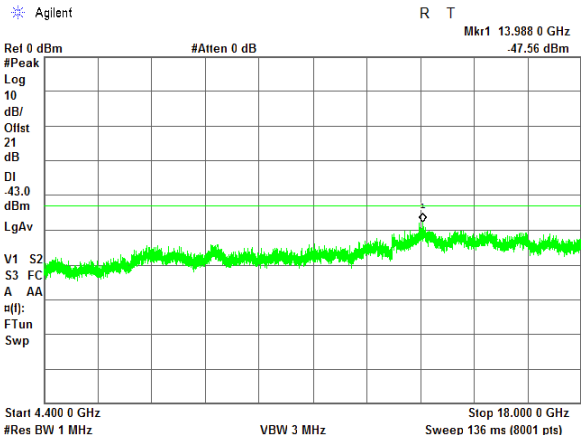


ANTENNA CHAIN: #2

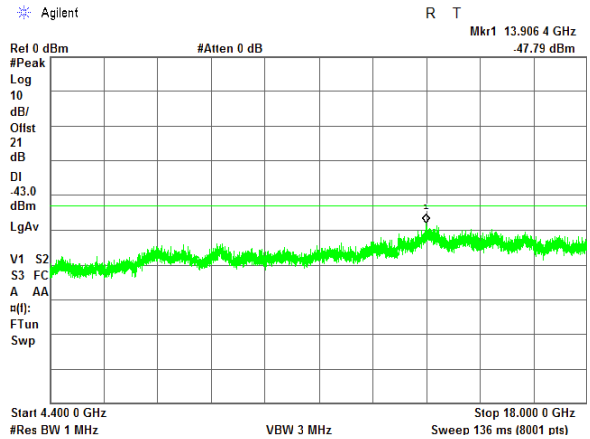


Plot 7.6.73 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



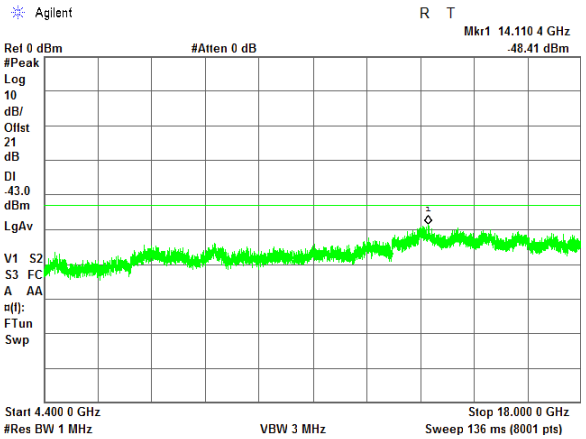
ANTENNA CHAIN: #2



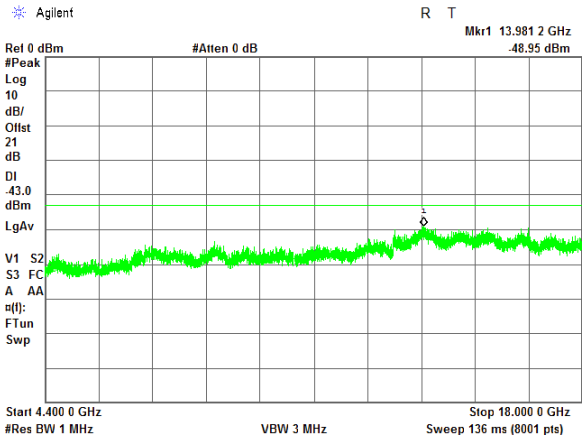
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.74 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

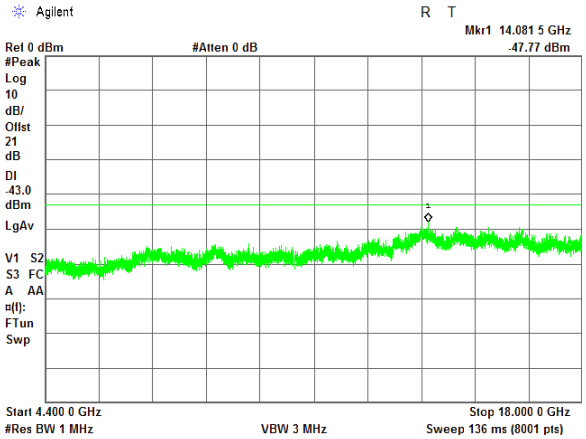


ANTENNA CHAIN: #2

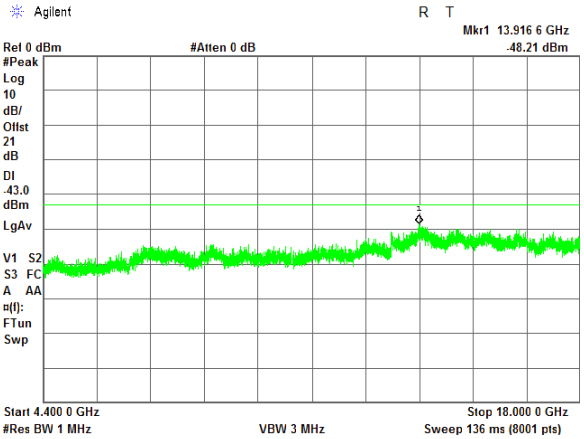


Plot 7.6.75 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



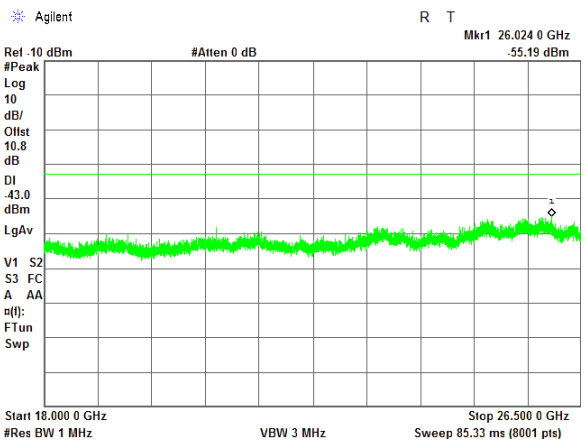
ANTENNA CHAIN: #2



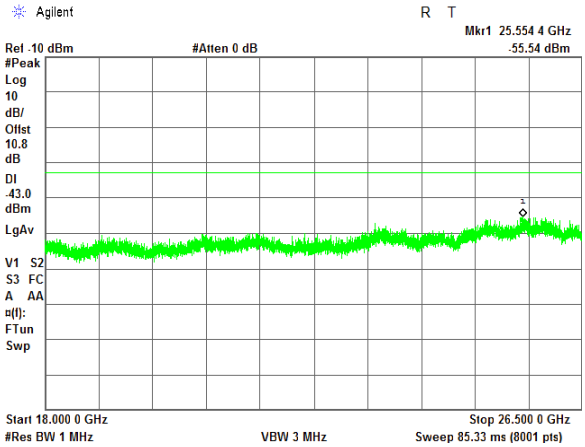
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.76 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

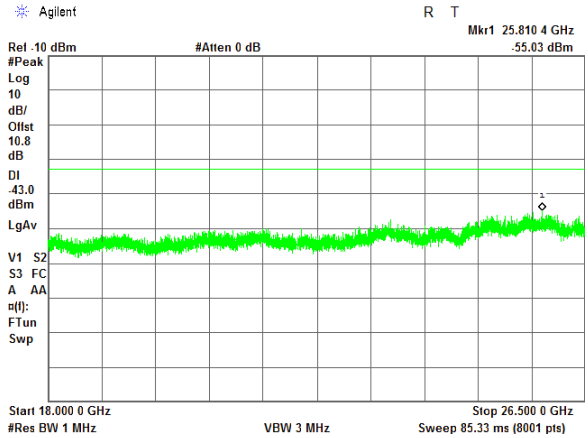


ANTENNA CHAIN: #2

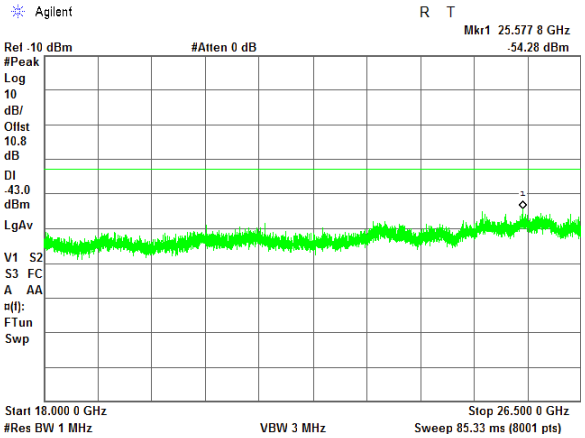


Plot 7.6.77 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



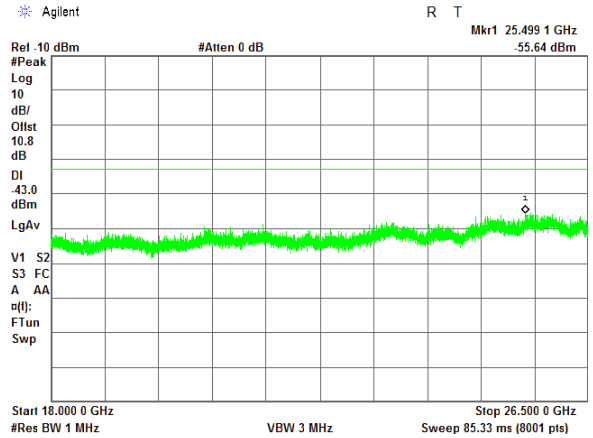
ANTENNA CHAIN: #2



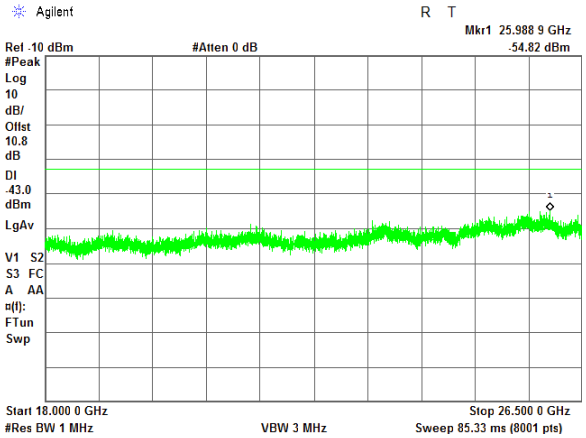
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.78 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

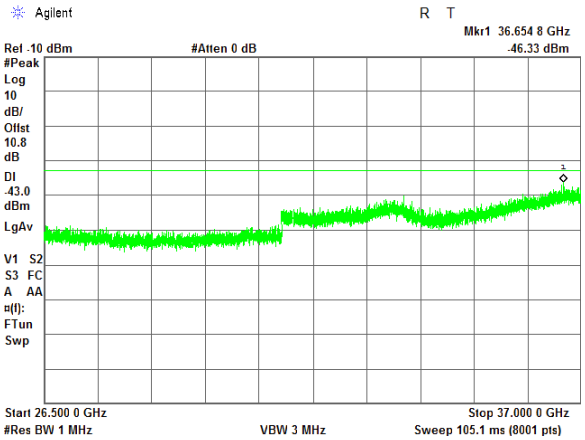


QPSK
40 MHz
ANTENNA CHAIN: #2

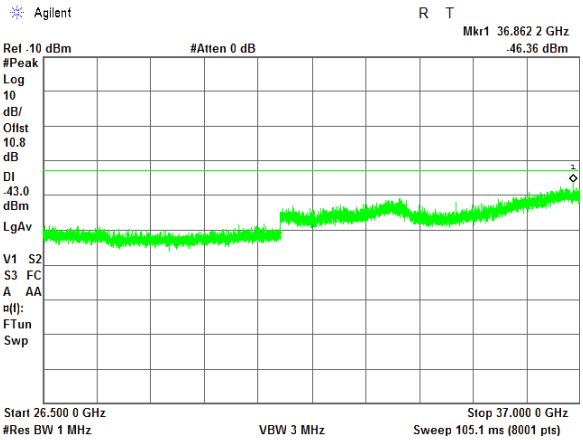


Plot 7.6.79 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1



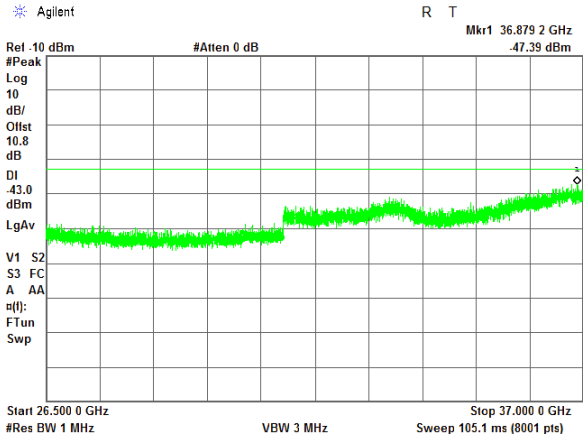
QPSK
40 MHz
ANTENNA CHAIN: #2



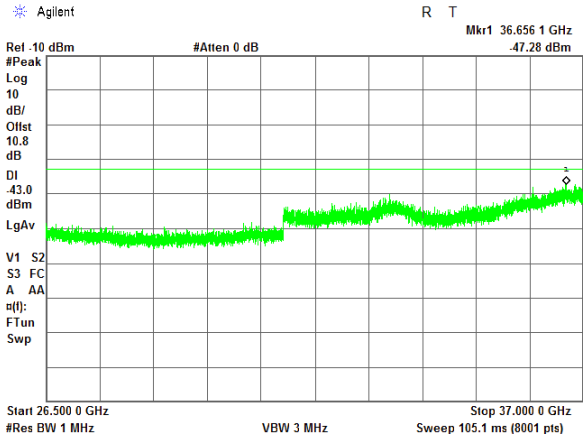
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22		
Temperature: 24.1 ºC	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.80 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1

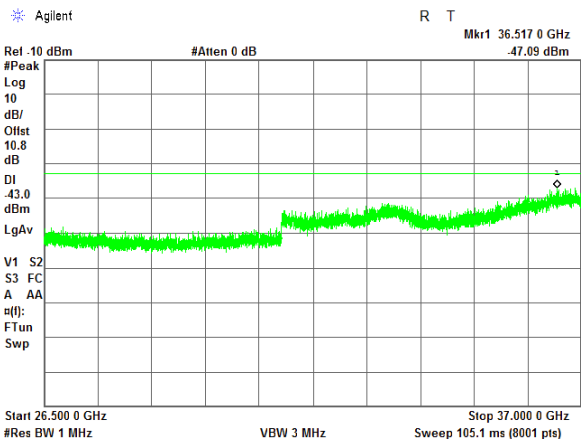


ANTENNA CHAIN: #2

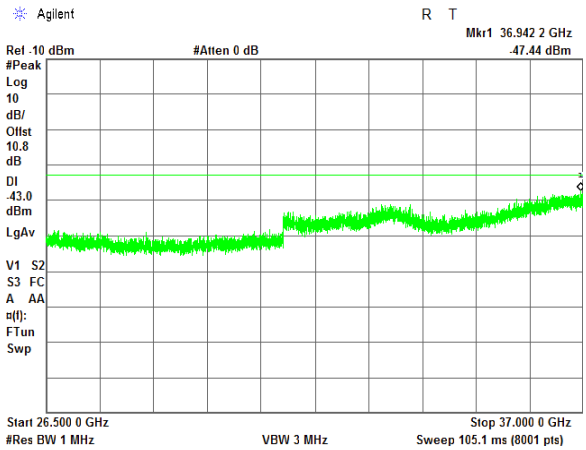


Plot 7.6.81 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency

MODULATION: QPSK
CHANNEL SPACING: 40 MHz
ANTENNA CHAIN: #1



ANTENNA CHAIN: #2



Test specification:	Section 2.1055, Frequency stability		
Test procedure:	47 CFR, Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date(s):	15-Feb-22		
Temperature: 24.2 ºC	Relative Humidity: 48 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

7.7 Frequency stability test

7.7.1 General

This test was performed to measure frequency stability of transmitter RF carrier. Specification test limits are given in Table 7.7.1.

Table 7.7.1 Frequency stability limits

Assigned frequency, MHz	Maximum allowed frequency displacement	
	ppm	Hz
3555.0	NA	NA
3625.0		NA
3695.0		NA

7.7.2 Test procedure

7.7.2.1 The EUT was set up as shown in Figure 7.7.1, energized and its proper operation was checked.

7.7.2.2 The EUT power was turned off. Temperature within test chamber was set to +30˚C and a period of time sufficient to stabilize all of the oscillator circuit components was allowed.

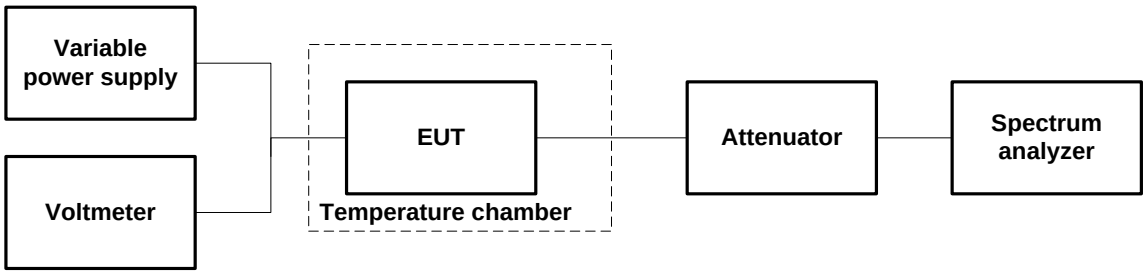
7.7.2.3 The EUT was powered on and carrier frequency was measured at start up moment and then every minute until frequency had been stabilized or 10 minutes elapsed whichever reached the last. The EUT was powered off.

7.7.2.4 The above procedure was repeated at 0˚C and at the lowest test temperature.

7.7.2.5 The EUT was powered on and carrier frequency was measured at start up moment and at the end of stabilization period at the rest of test temperatures and voltages. The EUT was powered off.

7.7.2.6 Frequency displacement was calculated and compared with the limit as provided in Table 7.7.2.

Figure 7.7.1 Frequency stability test setup



Test specification:	**Section 2.1055, Frequency stability**		
Test procedure:	47 CFR, Section 2.1055		
Test mode:	Compliance	**Verdict:**	PASS
Date(s):	15-Feb-22		
Temperature: 24.2 ºC	**Relative Humidity:** 48 %	**Air Pressure:** 1011 hPa	**Power:** 48 VAC
Remarks:			

Table 7.7.2 Frequency stability test results

OPERATING FREQUENCY:	3550 – 3700 MHz
NOMINAL POWER VOLTAGE:	63 VDC
TEMPERATURE STABILIZATION PERIOD:	20 min
POWER DURING TEMPERATURE TRANSITION:	Off
SPECTRUM ANALYZER MODE:	Counter
RESOLUTION BANDWIDTH:	100 Hz
VIDEO BANDWIDTH:	1 kHz
MODULATION:	Unmodulated

T, ºC	Voltage, V	Frequency, MHz							Max frequency drift, Hz		Verdict
		Start up	1st min	2nd min	3rd min	4th min	5th min	10th min	Positive	Negative	
Low frequency 3555.0 MHz											
-30	nominal	3.554999779	3.554999779	3.554999779	3.554999779	3.554999778	3.554999779	3.55499978	0	0	Comply
-20	nominal	3.554999779	NA	NA	NA	NA	NA	3.554999778	0	0	Comply
-10	nominal	3.554999779	NA	NA	NA	NA	NA	3.554999778	0	0	Comply
0	nominal	3.554999779	3.554999779	3.554999779	3.554999778	3.554999779	3.554999779	3.55499978	0	0	Comply
10	nominal	3.554999776	NA	NA	NA	NA	NA	3.554999776	0	0	Comply
20	15%	3.554999775	NA	NA	NA	NA	NA	3.554999774	0	0	Comply
20	nominal	3.554999774	NA	NA	NA	NA	NA	3.554999775	0	0	Comply
20	-15%	3.554999775	NA	NA	NA	NA	NA	3.554999775	0	0	Comply
30	nominal	3.554999775	3.554999776	3.554999775	3.554999776	3.554999776	3.554999775	3.554999775	0	0	Comply
40	nominal	3.554999775	NA	NA	NA	NA	NA	3.554999774	0	0	Comply
50	nominal	3.554999774	NA	NA	NA	NA	NA	3.554999774	0	0	Comply
Mid frequency 3625.0 MHz											
-30	nominal	3.624999725	3.624999764	3.624999764	3.624999765	3.624999764	3.624999976	3.624999764	0	0	Comply
-20	nominal	3.624999725	NA	NA	NA	NA	NA	3.624999763	0	0	Comply
-10	nominal	3.62499974	NA	NA	NA	NA	NA	3.624999763	0	0	Comply
0	nominal	3.624999764	3.624999764	3.624999764	3.624999764	3.624999764	3.624999976	3.624999734	0	0	Comply
10	nominal	3.624999761	NA	NA	NA	NA	NA	3.624999764	0	0	Comply
20	15%	3.624999725	NA	NA	NA	NA	NA	3.624999976	0	0	Comply
20	nominal	3.62499973	NA	NA	NA	NA	NA	3.624999976	0	0	Comply
20	-15%	3.62499976	NA	NA	NA	NA	NA	3.62499976	0	0	Comply
30	nominal	3.624999726	3.624999726	3.624999726	3.624999726	3.624999759	3.62499976	3.624999759	0	0	Comply
40	nominal	3.624999759	NA	NA	NA	NA	NA	3.62499976	0	0	Comply
50	nominal	3.624999759	NA	NA	NA	NA	NA	3.624999725	0	0	Comply
High frequency 3695.0 MHz											
-30	nominal	3.694999769	3.694999768	3.694999763	3.694999764	3.694999765	3.694999766	3.694999763	0	0	Comply
-20	nominal	3.694999762	NA	NA	NA	NA	NA	3.694999762	0	0	Comply
-10	nominal	3.694999763	NA	NA	NA	NA	NA	3.694999763	0	0	Comply
0	nominal	3.694999763	3.694999763	3.694999763	3.694999763	3.694999763	3.694999763	3.694999764	0	0	Comply
10	nominal	3.69499976	NA	NA	NA	NA	NA	3.694999759	0	0	Comply
20	15%	3.694999758	NA	NA	NA	NA	NA	3.694999759	0	0	Comply
20	nominal	3.69499976	NA	NA	NA	NA	NA	3.69499976	0	0	Comply
20	-15%	3.69499976	NA	NA	NA	NA	NA	3.69499976	0	0	Comply
30	nominal	3.69499976	3.694999758	3.694999758	3.694999758	3.694999758	3.694999759	3.694999759	0	0	Comply
40	nominal	3.69499976	NA	NA	NA	NA	NA	3.69499976	0	0	Comply
50	nominal	3.694999759	NA	NA	NA	NA	NA	3.694999756	0	0	Comply

* - Reference frequency

Reference numbers of test equipment used

HL 3286	HL 4355							

Full description is given in Appendix A.

8 APPENDIX A Test equipment and ancillaries used for tests

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal./ Check	Due Cal./ Check
1294	Adapter 35WR42Kf, 18 - 26.5 GHz	Getronics	35WR42KF	1294	09-Nov-21	09-Nov-23
1295	Adapter 35WR28Kf, 26.5-40 GHz	Wiltron	35WR28KF	1295	14-Sep-20	14-Sep-23
3286	Temperature Chamber, (-50 to +170) °C	Thermotron	EL-8-CH-1-1-CO2	21-9048	12-Dec-21	12-Dec-22
3287	Low pass filter, DC-3.0 GHz	Unknown	NA	3287	15-Jun-21	15-Jun-23
3301	Power Meter, P-series, 50 MHz to 40 GHz	Agilent Technologies	N1911A	MY45101057	18-May-21	18-Jun-22
3355	Low Pass Filter, 50 Ohm, DC to 1450 MHz.	Mini-Circuits	VLF-1450+	NA	15-Jun-21	15-Jun-23
3901	Microwave Cable Assembly, 40.0 GHz, 3.5 m, SMA/SMA	Huber-Suhner	SUCOFLEX 102A	1225/2A	06-Apr-21	06-Apr-22
3903	Microwave Cable Assembly, 40.0 GHz, 1.5 m, SMA/SMA	Huber-Suhner	SUCOFLEX 102A	1226/2A	06-Apr-21	06-Apr-22
4355	Signal and Spectrum Analyzer, 9 kHz to 7 GHz	Rohde & Schwarz	FSV 7	101630	20-Sep-21	20-Sep-22
4360	EMI Test Receiver, 20 Hz to 40 GHz.	Rohde & Schwarz	ESU40	100322	13-Jan-22	13-Jan-23
4366	Directional coupler, 1 GHz to 18 GHz, 10 dB, SMA Female	Tiger Micro-Electronics Institute	TGD-A1101-10	01e-JSDE805-007	03-Jun-20	03-Jun-22
4933	Active Horn Antenna, 1 GHz to 18 GHz	COM-POWER CORPORATION	AHA-118	701046	13-Jan-22	13-Jan-23
4956	Active horn antenna, 18 to 40 GHz	COM-POWER CORPORATION	AHA-840	105004	26-Jan-21	26-Mar-22
5112	RF cable, 40 GHz, 5.5 m, K-type	Huber-Suhner	SF102EA/11SK/11SK/5500MM	502494/2EA	19-Apr-21	19-Apr-22
5174	Medium Power Fixed Coaxial Attenuator DC to 40 GHz, 10 dB, 5 W	API Weinschel, Inc	75A-10-12	TD854	06-Apr-21	06-Apr-22
5232	WR42 to coaxial Right Angle Adapter. Freq. Range: 18.0 - 26.5 GHz	AINFO(HK)LIMITED	42WCA3_Cu	J504063308	18-Jul-21	18-Jul-22
5233	WR28 to coaxial Right Angle Adapter. Freq. Range: 26.5.0 - 40.0 GHz	AINFO(HK)LIMITED	28WCAK_Cu	J504063051	24-Jan-21	24-Jan-23
5286	Band Pass Filter, 50 Ohm, 4.4 to 18 GHz, SMA/M-SMA/F	A-INFOMW	WBLB-T-HP-4.4-18-S	J10800000305	15-Jun-21	15-Jun-23
5288	Trilog Antenna, 25 MHz - 8 GHz, 100W	Frankonia	ALX-8000E	00809	08-Feb-19	08-Mar-22
6143	RF-cable, 40.0 GHz, 2.0m, 2.92mm/2.92mm	Mechanc	CFT360AP4060S-KMKM-2M	NA	05-Jan-22	05-Jul-22

9 APPENDIX B Test equipment correction factors

HL 4956: Active horn antenna
COM-POWER Corp., model: AHA-840, s/n 105004

Frequency, MHz	Measured antenna factor, dB/m	Frequency, MHz	Measured antenna factor, dB/m
18000	5.1	29500	1.4
18500	3.6	30000	2.9
19000	2.2	30500	2.9
19500	0.7	31000	2.9
20000	0.7	31500	1.2
20500	0.8	32000	0.7
21000	0.5	32500	0.2
21500	-1.3	33000	-1.7
22000	-2.1	33500	-2.2
22500	-2.0	34000	2.3
23000	-1.6	34500	-1.1
23500	-2.9	35000	0.7
24000	-2.3	35500	-1.1
24500	-2.6	36000	0.1
25000	-1.8	36500	1.4
25500	-1.2	37000	3.7
26000	-0.5	37500	5.8
26500	-1.2	38000	6.6
27000	-0.1	38500	7.3
27500	-1.0	39000	6.5
28000	-0.7	39500	7.3
28500	0.5	40000	7.1

The antenna factor shall be added to receiver reading in dBμV to obtain field strength in dBμV/m.

HL 4933 Active Horn Antenna, 1 GHz to 18 GHz
COM-POWER CORPORATION AHA-118 , s/n 701046

Frequency, MHz	Measured antenna factor, dB/m
1000	-16.1
1050	-16.0
1100	-15.1
1150	-16.4
1200	-16.0
1250	-15.6
1300	-15.1
1350	-14.8
1400	-15.1
1450	-15.1
1500	-15.5
1550	-15.2
1600	-14.7
1650	-14.4
1700	-14.4
1750	-14.0
1800	-13.6
1850	-12.7
1900	-11.9
1950	-11.9
2000	-11.8
2050	-11.3
2100	-11.3
2150	-11.7
2200	-12.3
2250	-12.3
2300	-12.4
2350	-12.2
2400	-11.7
2450	-11.5
2500	-11.5
2550	-11.5
2600	-11.5
2650	-11.3
2700	-11.3
2750	-11.1
2800	-11.1
2850	-11.3
2900	-11.1
2950	-11.0
3000	-11.1
3050	-10.9
3100	-10.7
3150	-10.6

Frequency, MHz	Measured antenna factor, dB/m
3200	-11.2
3250	-10.8
3300	-10.8
3350	-10.7
3400	-10.3
3450	-10.2
3500	-10.1
3550	-10.4
3600	-10.5
3650	-10.4
3700	-10.4
3750	-10.3
3800	-10.1
3850	-10.0
3900	-9.9
3950	-9.8
4000	-9.7
4050	-9.3
4100	-8.6
4150	-8.2
4200	-8.3
4250	-8.5
4300	-8.5
4350	-8.3
4400	-8.0
4450	-7.7
4500	-7.6
4550	-7.4
4600	-7.5
4650	-7.8
4700	-7.6
4750	-6.8
4800	-6.1
4850	-5.7
4900	-5.8
4950	-5.8
5000	-6.0
5050	-5.7
5100	-5.4
5150	-5.1
5200	-4.6
5250	-4.6
5300	-4.8
5350	-5.1