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Report ID: SIKRAD_FCC.41073_Rev1

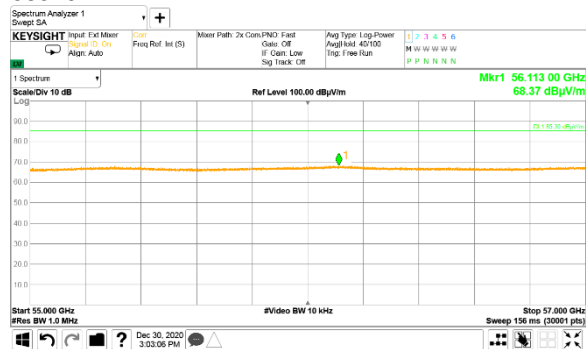
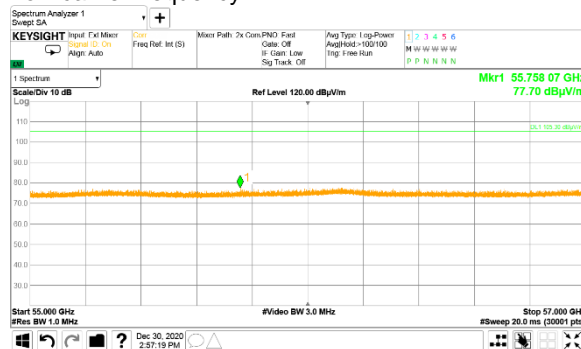
Date of Issue: 11-Mar-21

| | |
|---|--------------------------------|
| Test specification: FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: Compliance | Verdict: PASS |
| Date(s): 18-Jan-21 | |
| Temperature: 20 °C | Relative Humidity: 68 % |
| Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | |

Plot 7.4.3 Spurious emission measurements in 55 – 57 GHz range

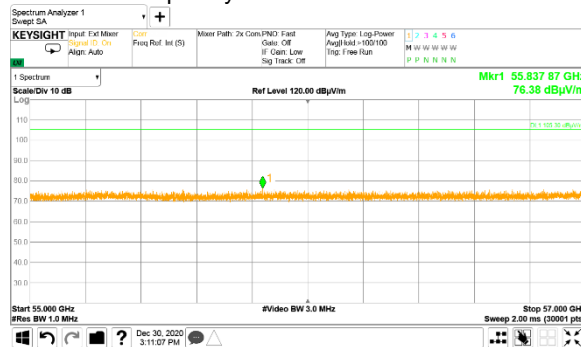
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:

OATS
3 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



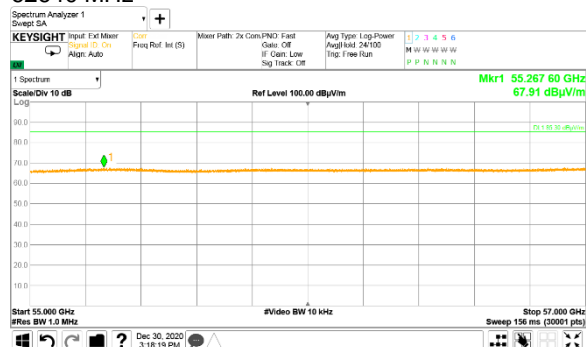
Mid carrier frequency:

60480 MHz



High carrier frequency:

62640 MHz





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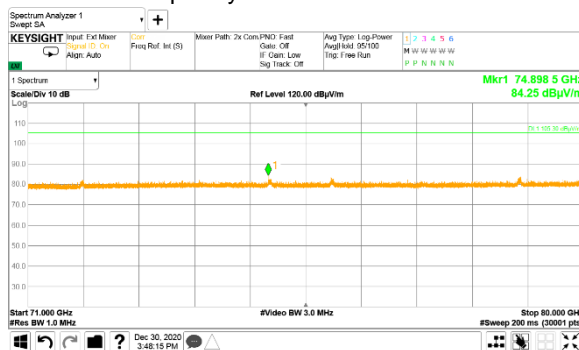
Report ID: SIKRAD_FCC.41073_Rev1

Date of Issue: 11-Mar-21

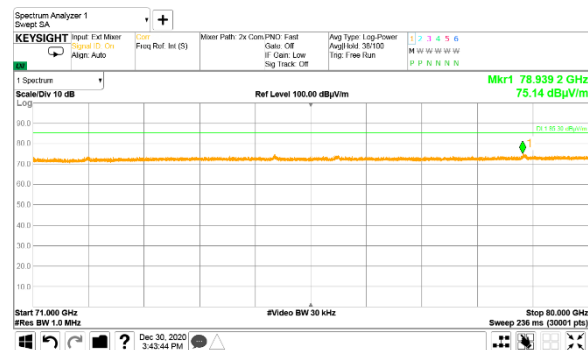
| | | | |
|----------------------------|--------------------------------|---|----------------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| 18-Jan-21 | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.4 Spurious emission measurements in 71 – 80 GHz range

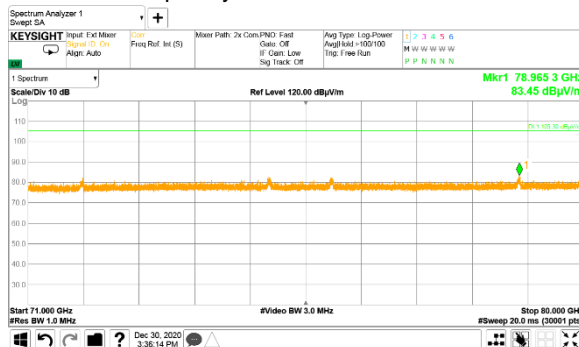
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



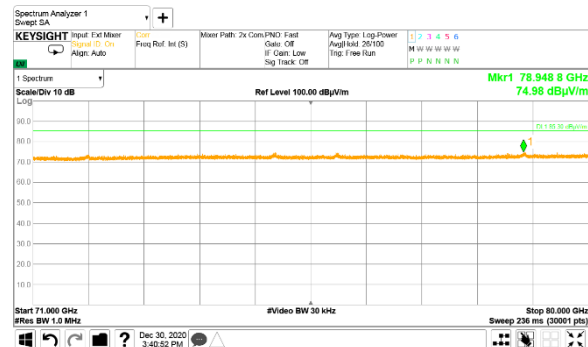
OATS
3 m
QPSK
Vertical
DETECTOR: Peak RBW = 1 MHz; VBW = 30 kHz
58320 MHz



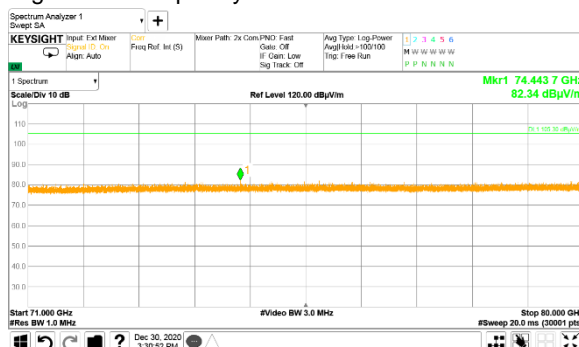
Mid carrier frequency:



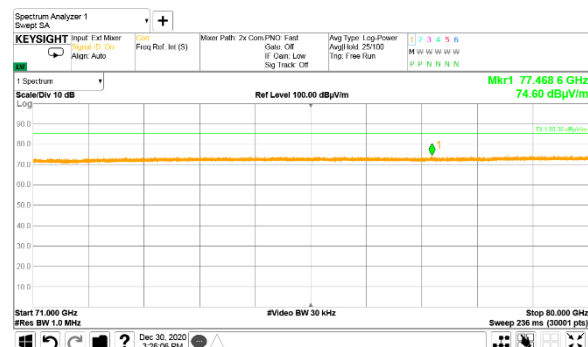
60480 MHz



High carrier frequency:



62640 MHz

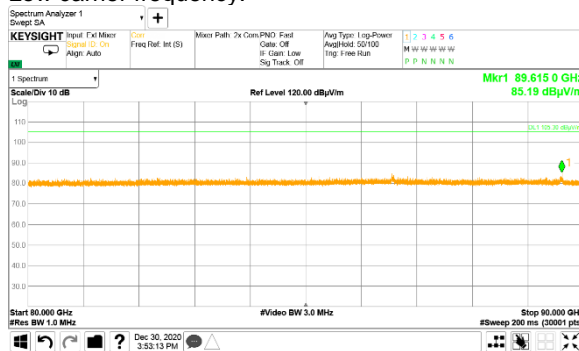


| | | | |
|----------------------------|--------------------------------|---|----------------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Compliance | Verdict: PASS |
| Date(s): | | 18-Jan-21 | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.5 Spurious emission measurements in 80 – 90 GHz range

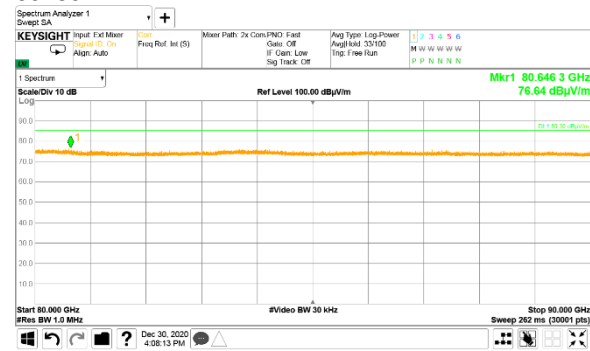
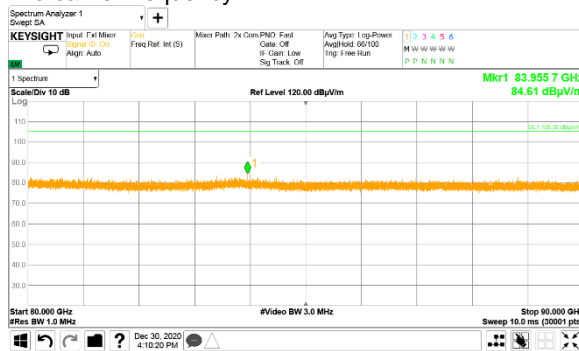
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak
Low carrier frequency:

OATS
3 m
QPSK
Vertical and Horizontal
RBW = 1 MHz; VBW = 3 MHz
58320 MHz



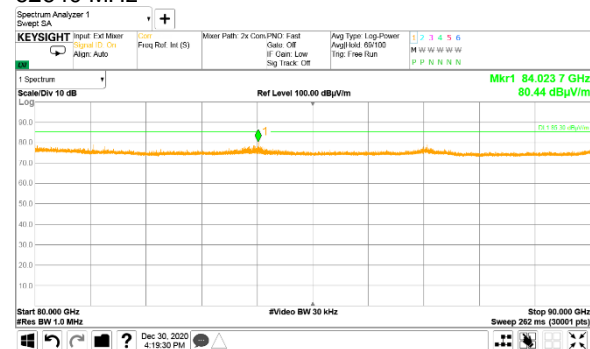
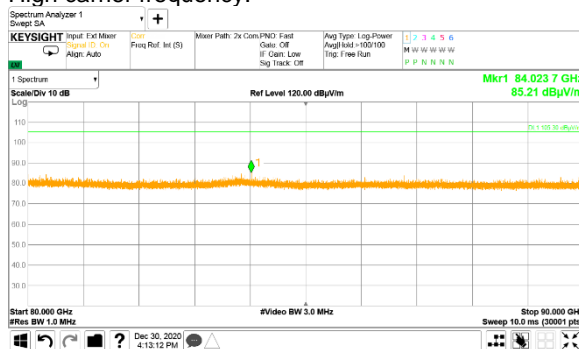
Mid carrier frequency:

60480 MHz



High carrier frequency:

62640 MHz





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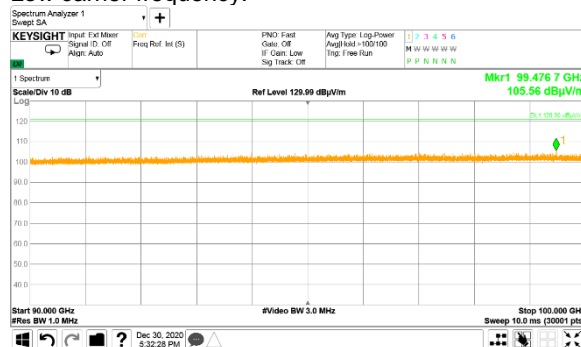
Report ID: SIKRAD_FCC.41073_Rev1

Date of Issue: 11-Mar-21

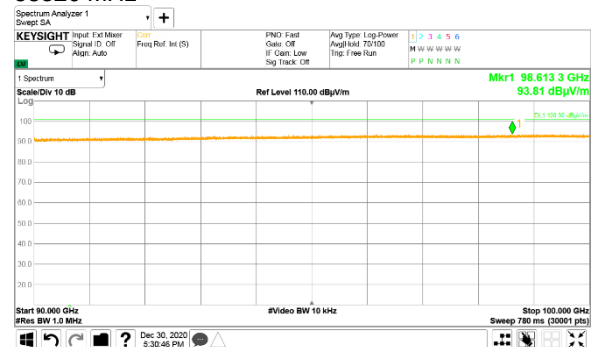
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| 18-Jan-21 | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.6 Spurious emission measurements in 90 – 100 GHz range

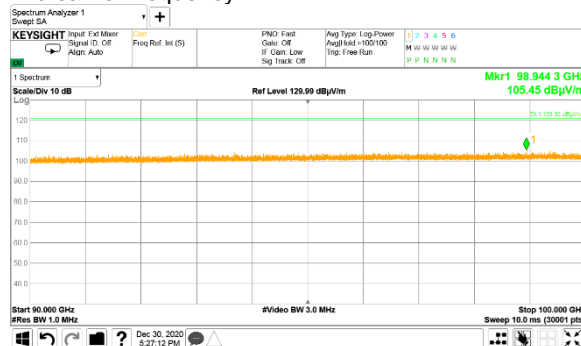
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



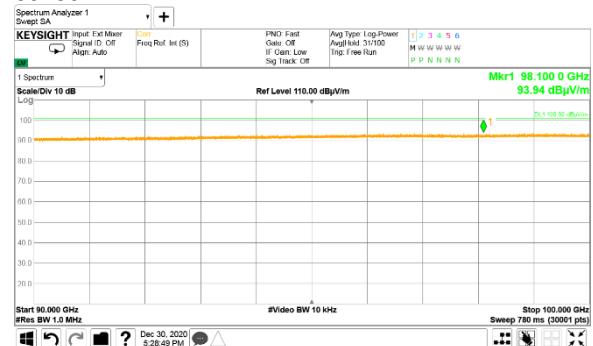
OATS
0.5 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



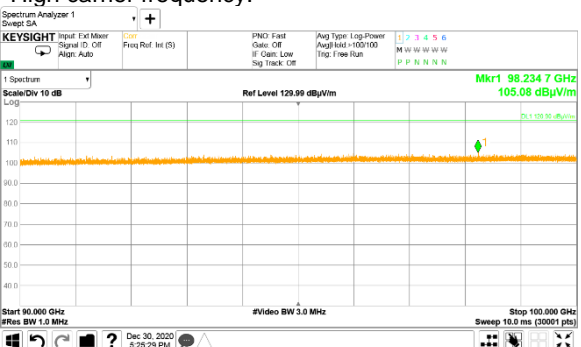
Mid carrier frequency:



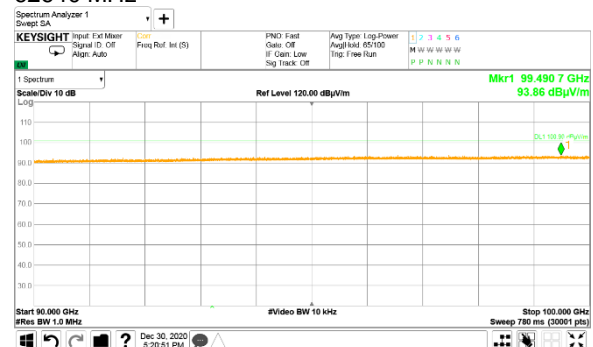
60480 MHz



High carrier frequency:



62640 MHz





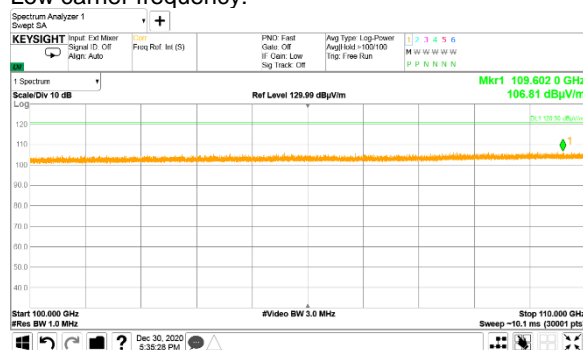
HERMON LABORATORIES

Report ID: SIKRAD_FCC.41073_Rev1
Date of Issue: 11-Mar-21

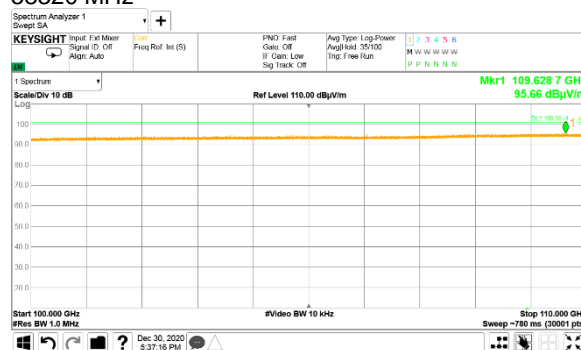
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Compliance | Verdict: PASS |
| Date(s): | | 18-Jan-21 | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.7 Spurious emission measurements in 100 – 110 GHz range

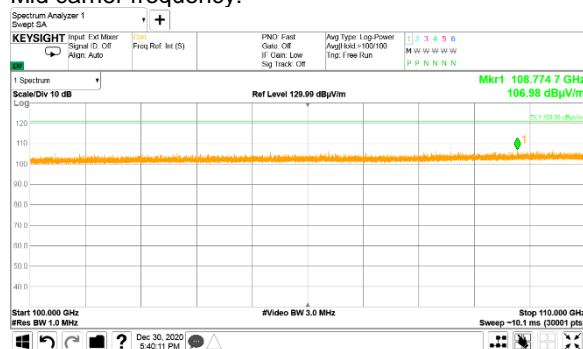
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



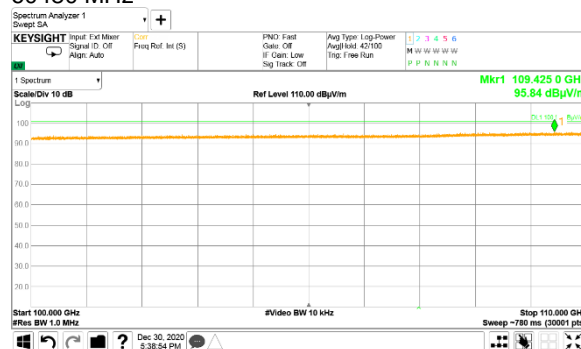
OATS
0.5 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



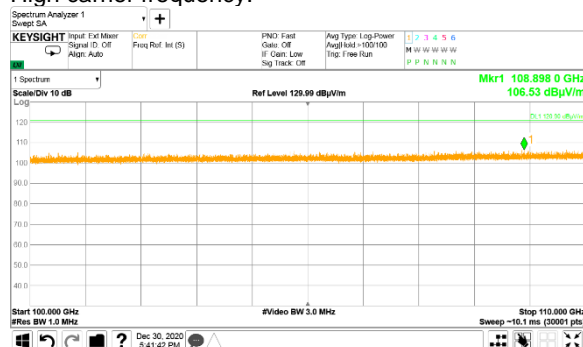
Mid carrier frequency:



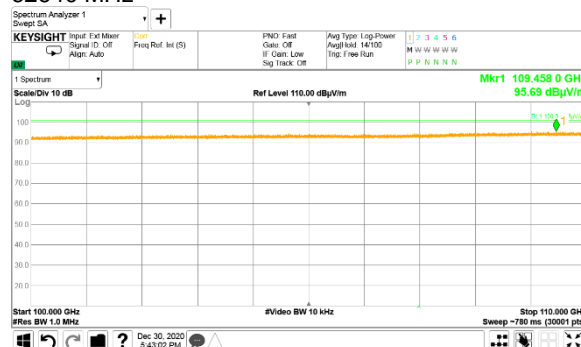
60480 MHz



High carrier frequency:



62640 MHz



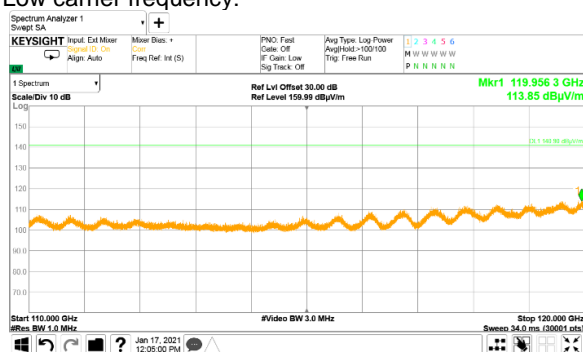


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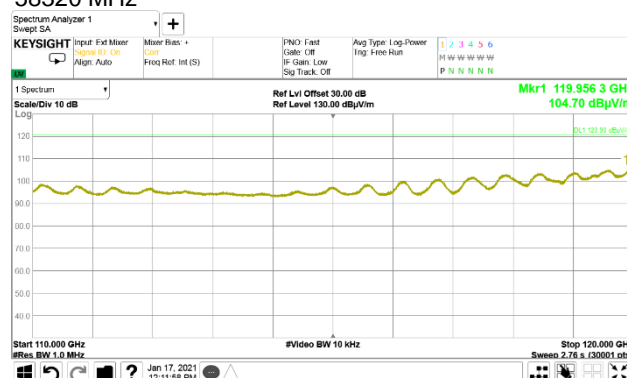
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.8 Spurious emission measurements in 110 – 120 GHz range

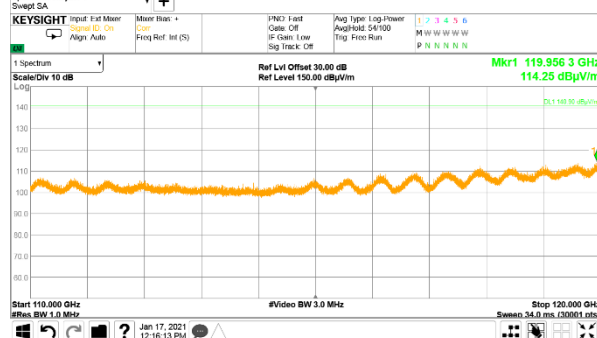
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



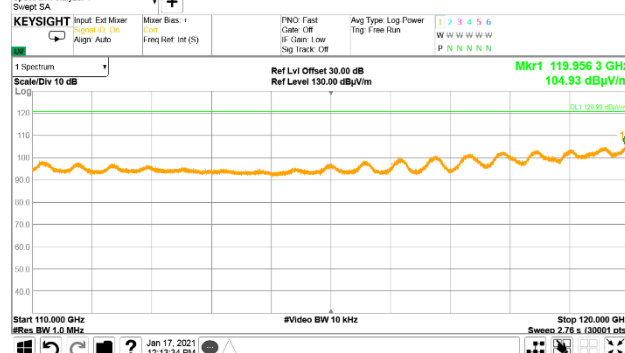
OATS
0.05 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



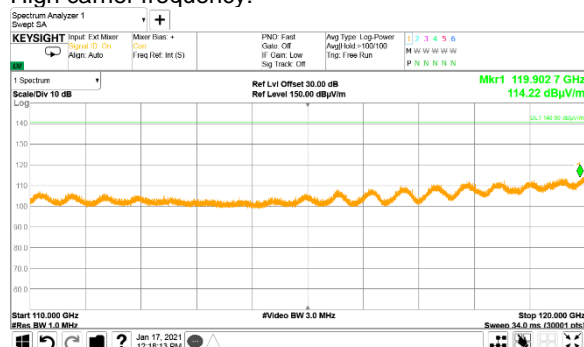
Mid carrier frequency:



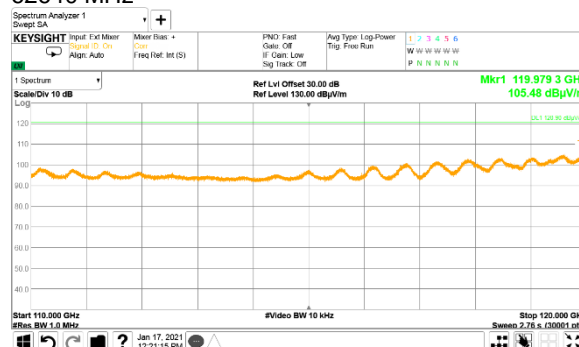
60480 MHz



High carrier frequency:



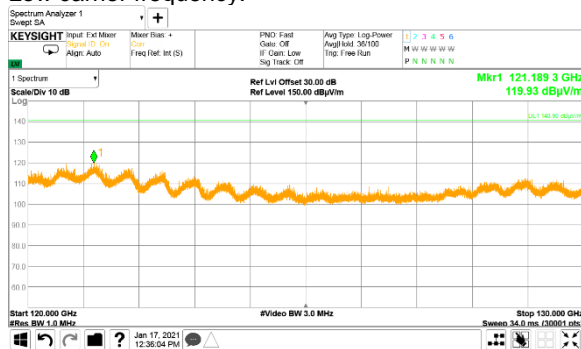
62640 MHz



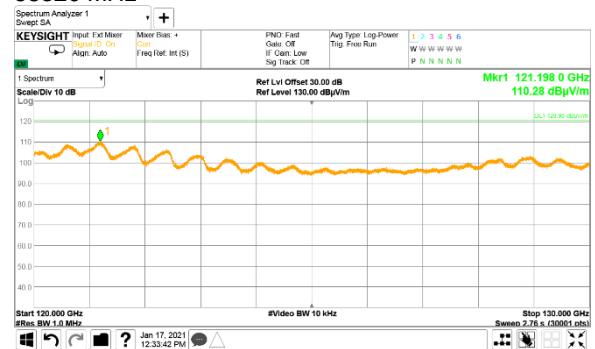
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| 18-Jan-21 | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.9 Spurious emission measurements in 120 – 130 GHz range

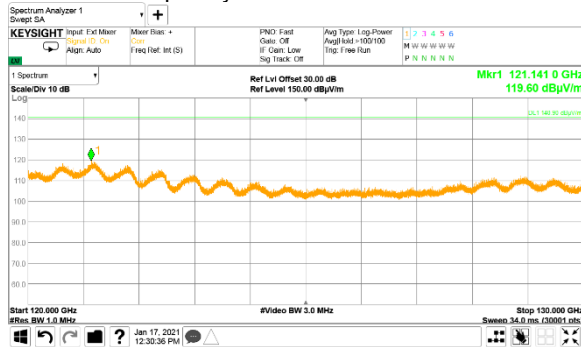
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



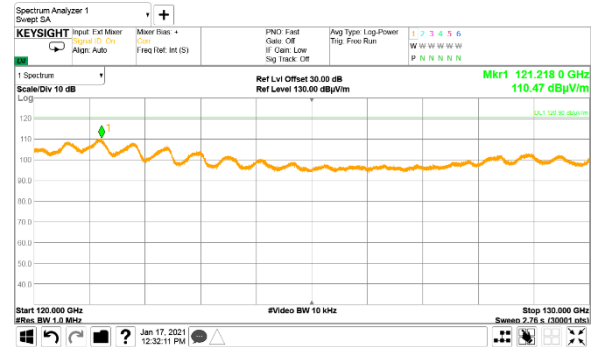
OATS
0.05 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



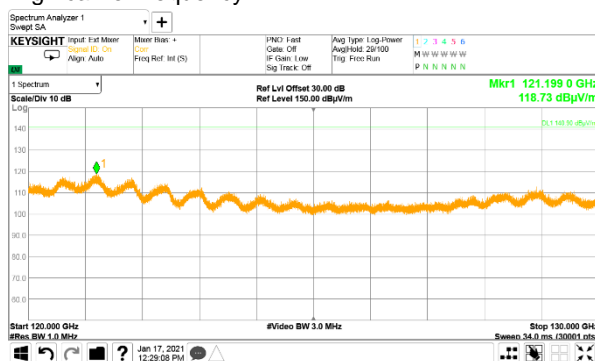
Mid carrier frequency:



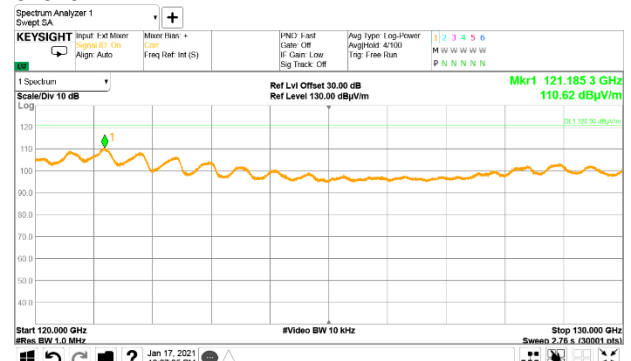
60480 MHz



High carrier frequency:



62640 MHz

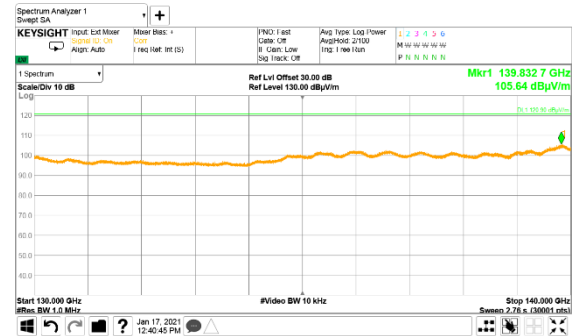
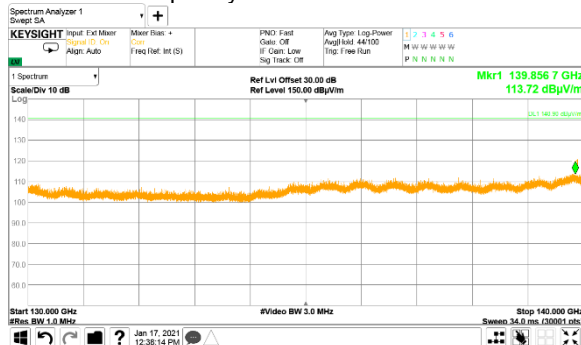


| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| 18-Jan-21 | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.10 Spurious emission measurements in 130 – 140 GHz range

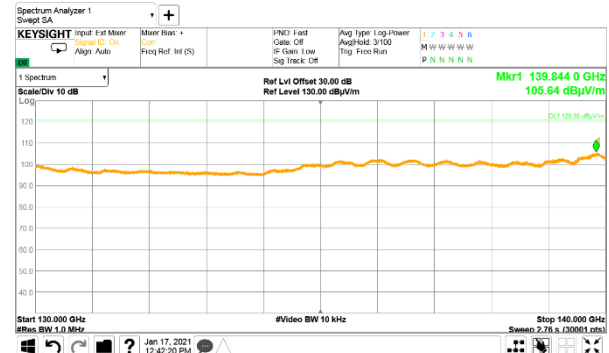
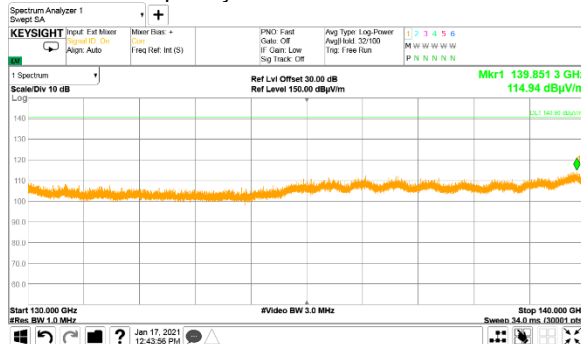
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:

OATS
0.05 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



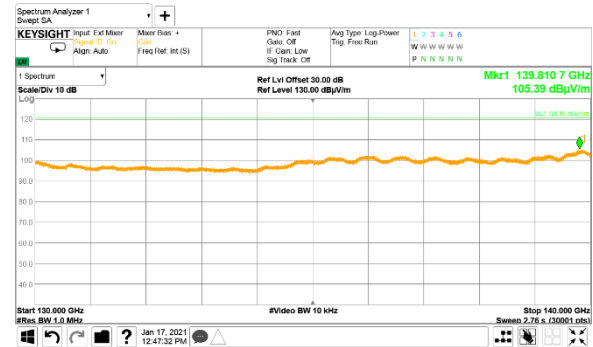
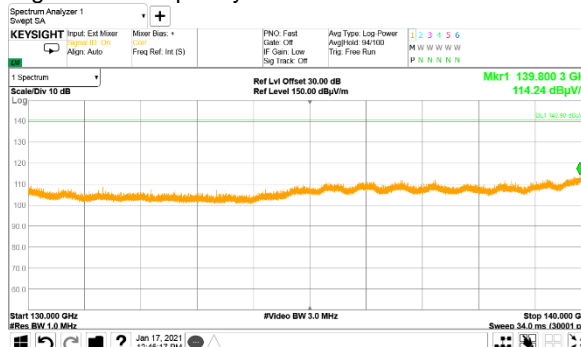
Mid carrier frequency:

60480 MHz



High carrier frequency:

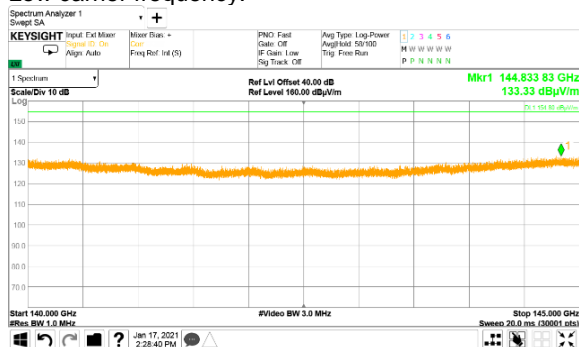
62640 MHz



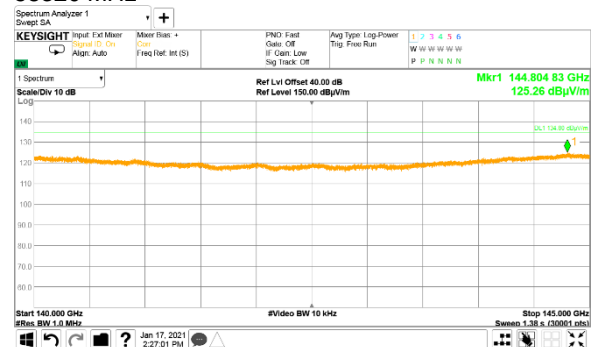
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Verdict: PASS | |
| Date(s): | | | |
| 18-Jan-21 | | | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.11 Spurious emission measurements in 140 – 145 GHz range

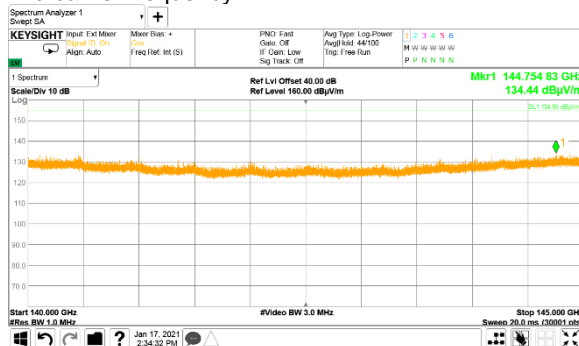
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



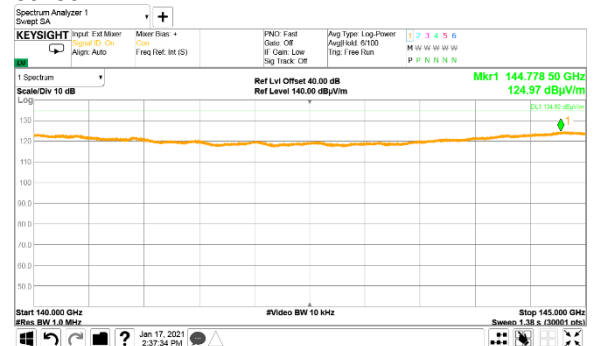
OATS
0.01 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



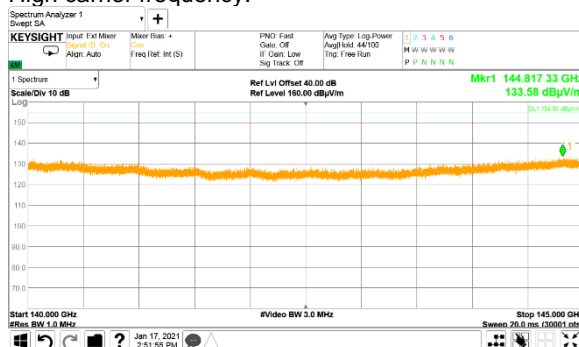
Mid carrier frequency:



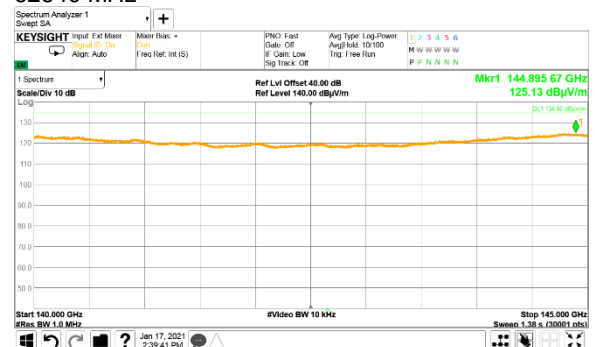
60480 MHz



High carrier frequency:



62640 MHz





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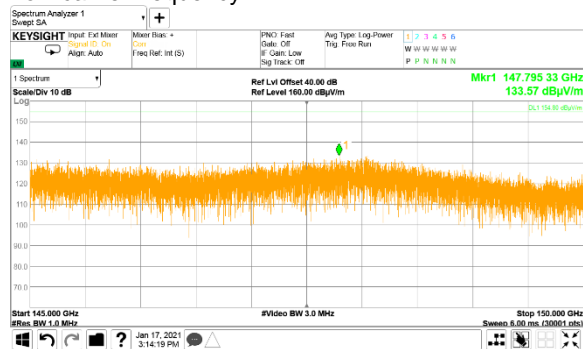
Report ID: SIKRAD_FCC.41073_Rev1

Date of Issue: 11-Mar-21

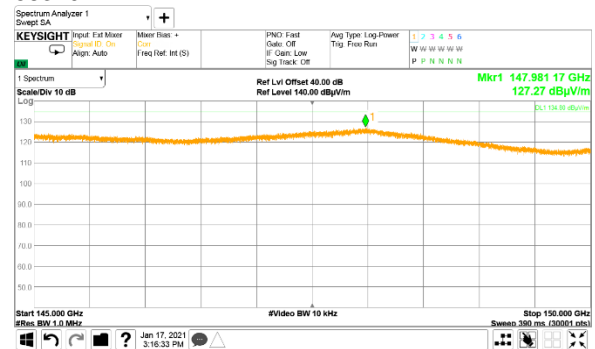
| | | | |
|---------------------|-------------------------|--|---------------|
| Test specification: | | FCC Section 15.255(d)(3), RSS-210 section J.3, Out of band radiated emissions above 40 GHz | |
| Test procedure: | | ANSI C63.10, Sections 9.9, 9.12 | |
| Test mode: | | Compliance | Verdict: PASS |
| Date(s): | | 18-Jan-21 | |
| Temperature: 20 °C | Relative Humidity: 68 % | Air Pressure: 1015 hPa | Power: 48 VDC |
| Remarks: | | | |

Plot 7.4.12 Spurious emission measurements in 145 – 150 GHz range

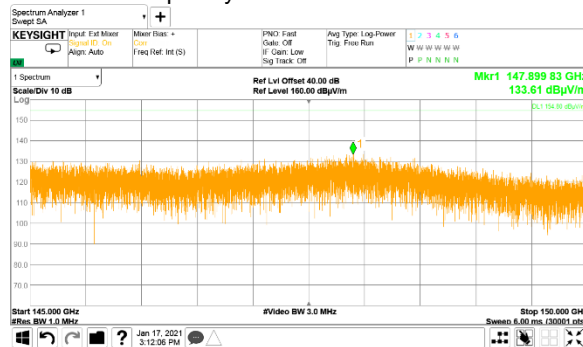
TEST SITE:
TEST DISTANCE:
MODULATION:
ANTENNA POLARIZATION:
DETECTOR: Peak RBW = 1 MHz; VBW = 3 MHz
Low carrier frequency:



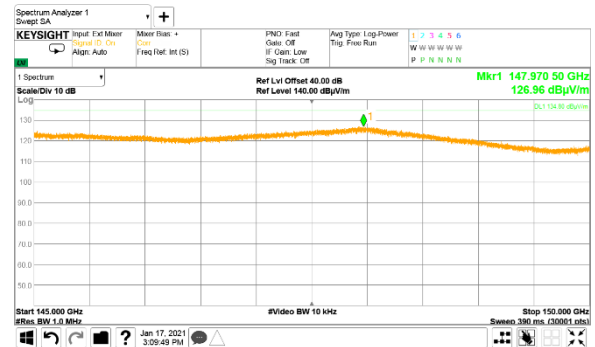
OATS
0.01 m
QPSK
Vertical and Horizontal
DETECTOR: Peak RBW = 1 MHz; VBW = 10 kHz
58320 MHz



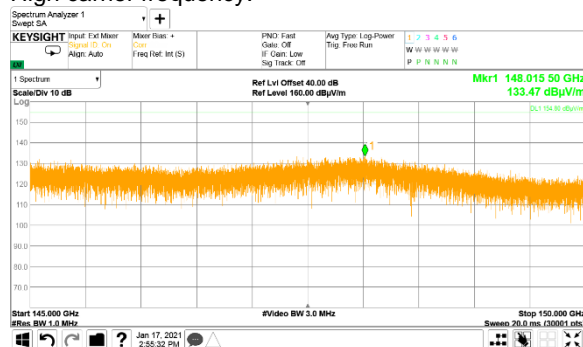
Mid carrier frequency:



60480 MHz



High carrier frequency:



62640 MHz

