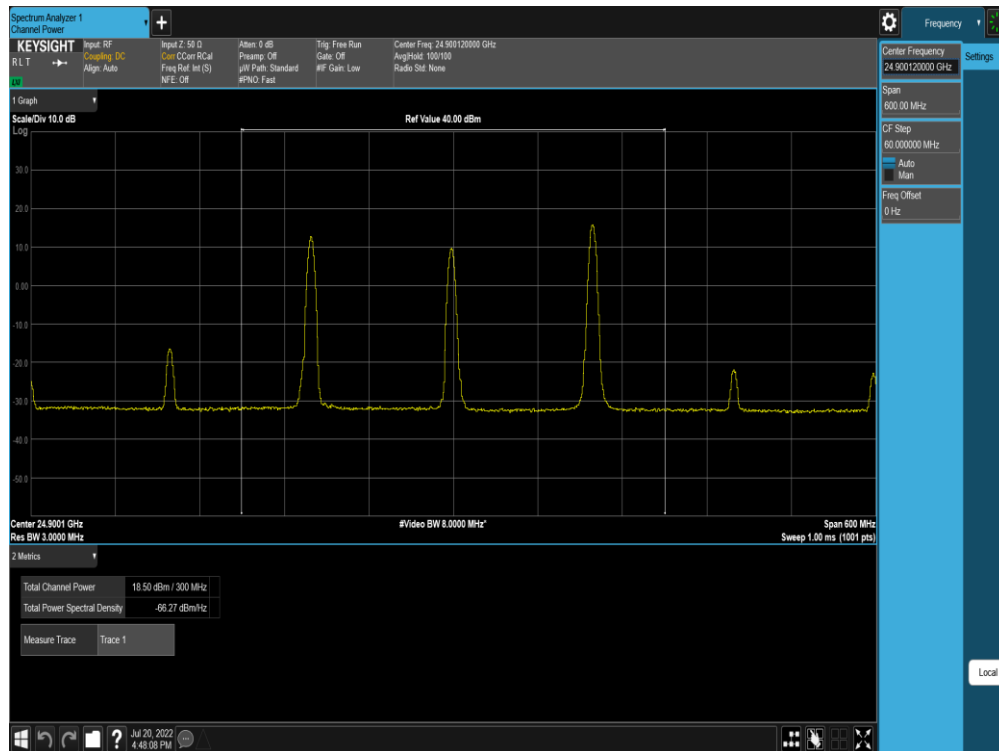
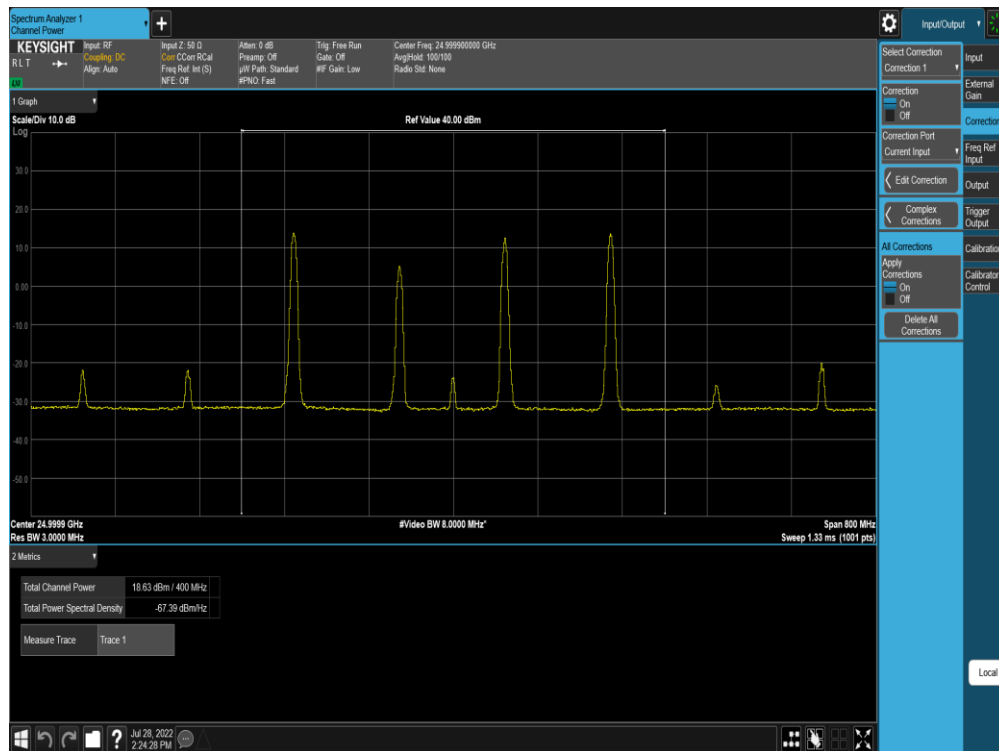


FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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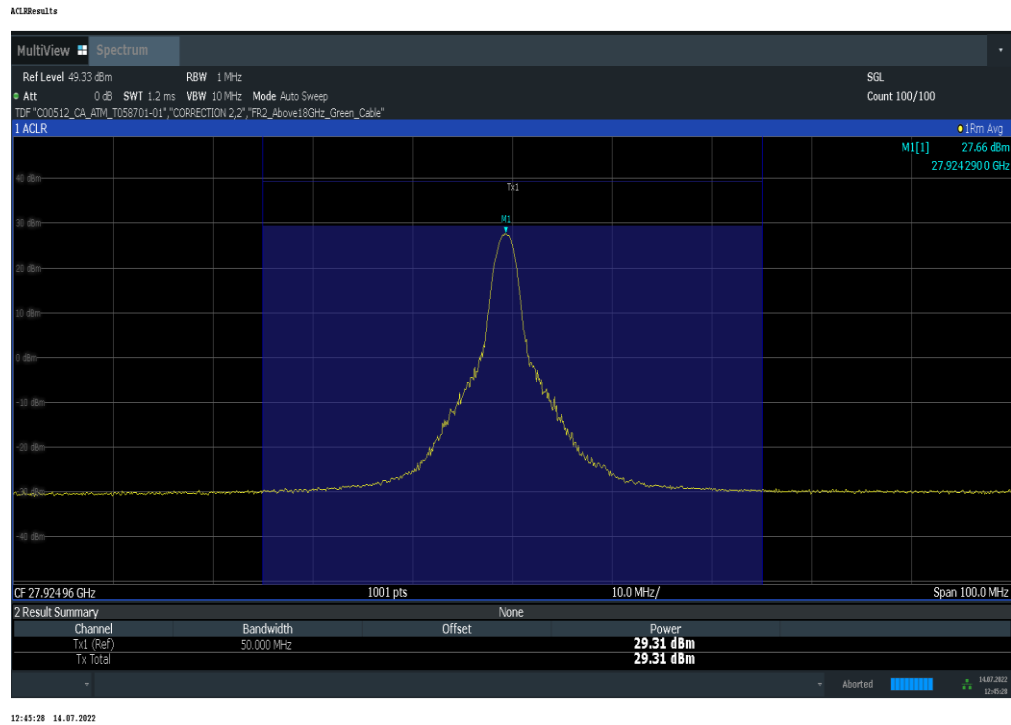
Plot 9-41. Ant M3 EIRP Plot (Band n258-R2-100MHz-3CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



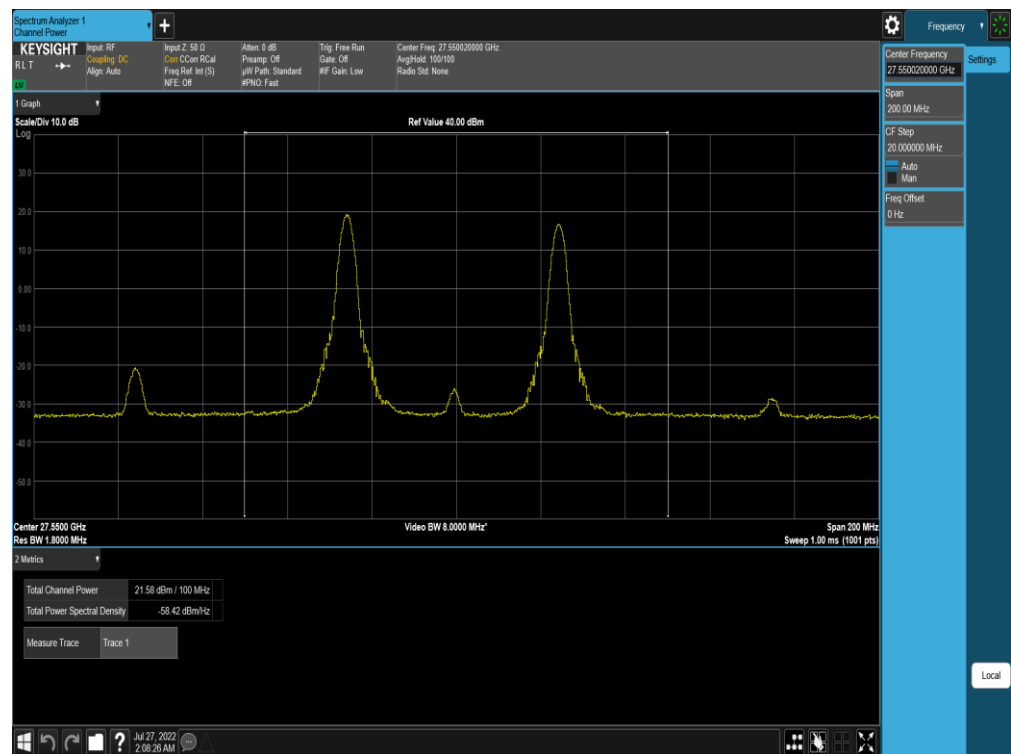
Plot 9-42. Ant M3 EIRP Plot (Band n258-R2-100MHz-4CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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9.1.7 Band n261 – Ant M0

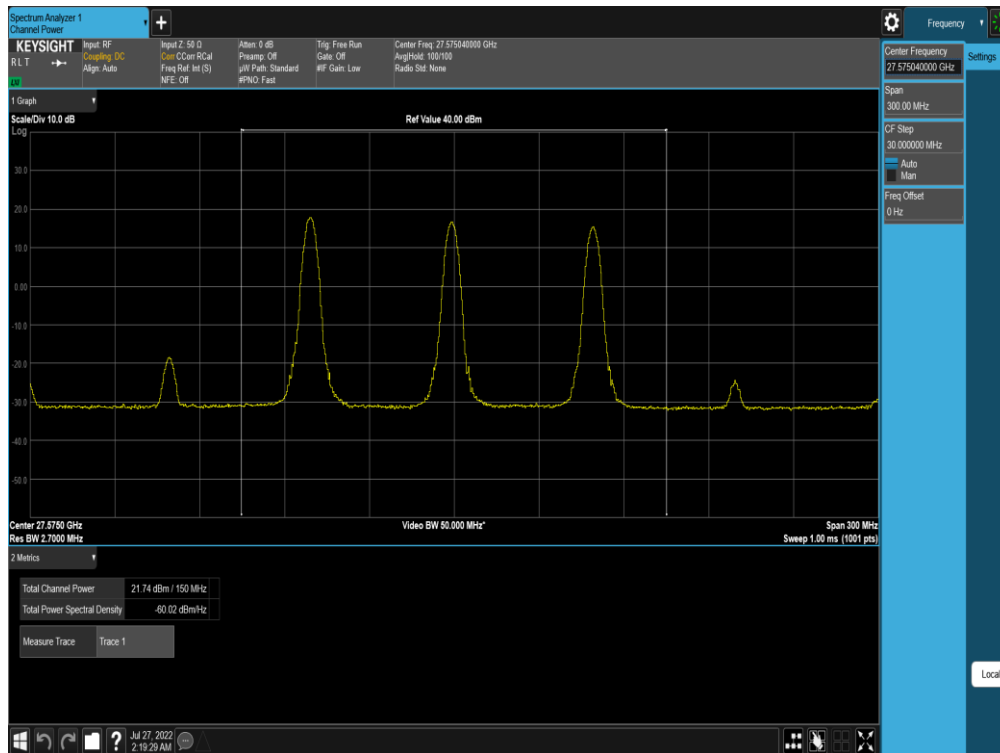


Plot 9-43. Ant M0 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK– Mid Channel)

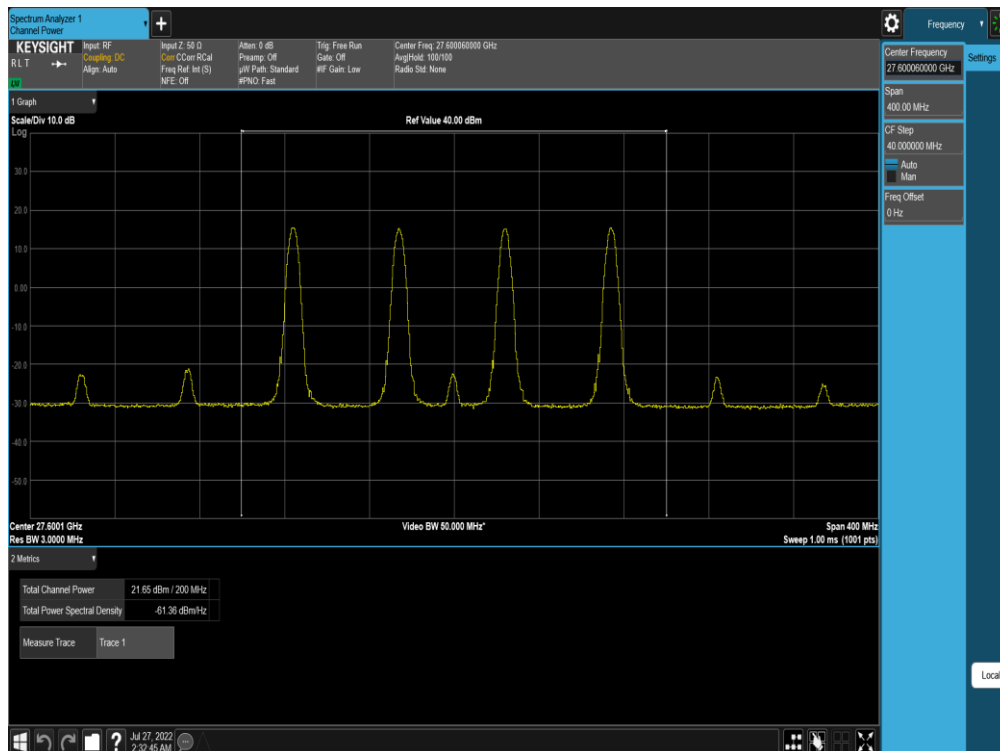


Plot 9-44. Ant M0 EIRP Plot (Band n261-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 9-45. Ant M0 EIRP Plot (Band n261-50MHz-3CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



Plot 9-46. Ant M0 EIRP Plot (Band n261-50MHz-4CC SISO Dual Pol -OFDM – $\pi/2$ BPSK – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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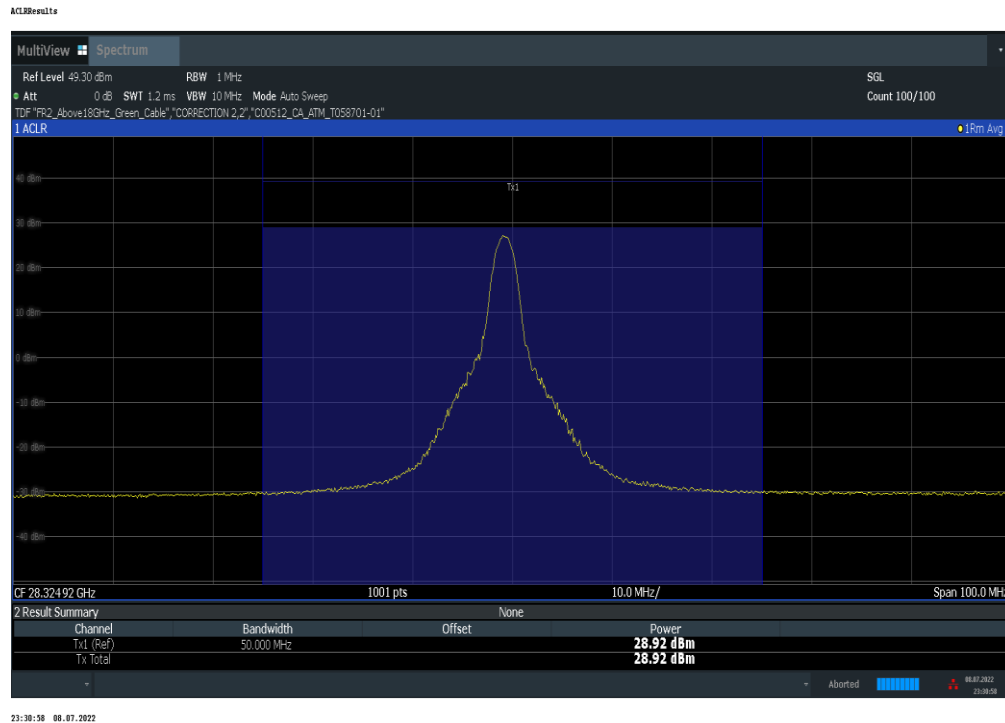
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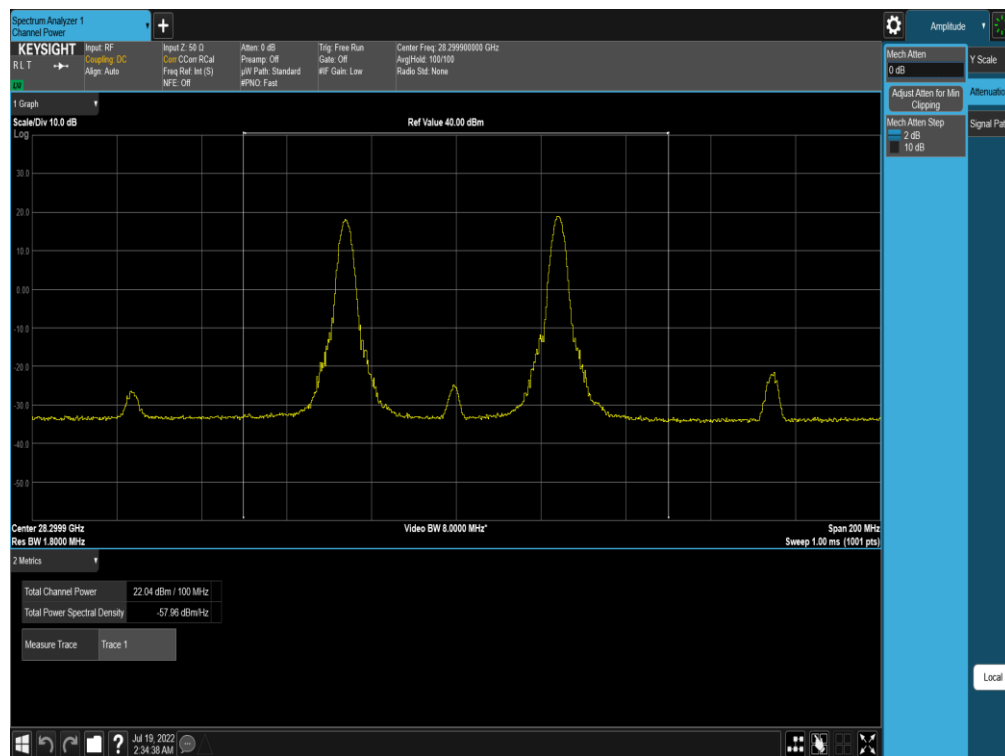


FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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9.1.8 Band n261 – Ant M2

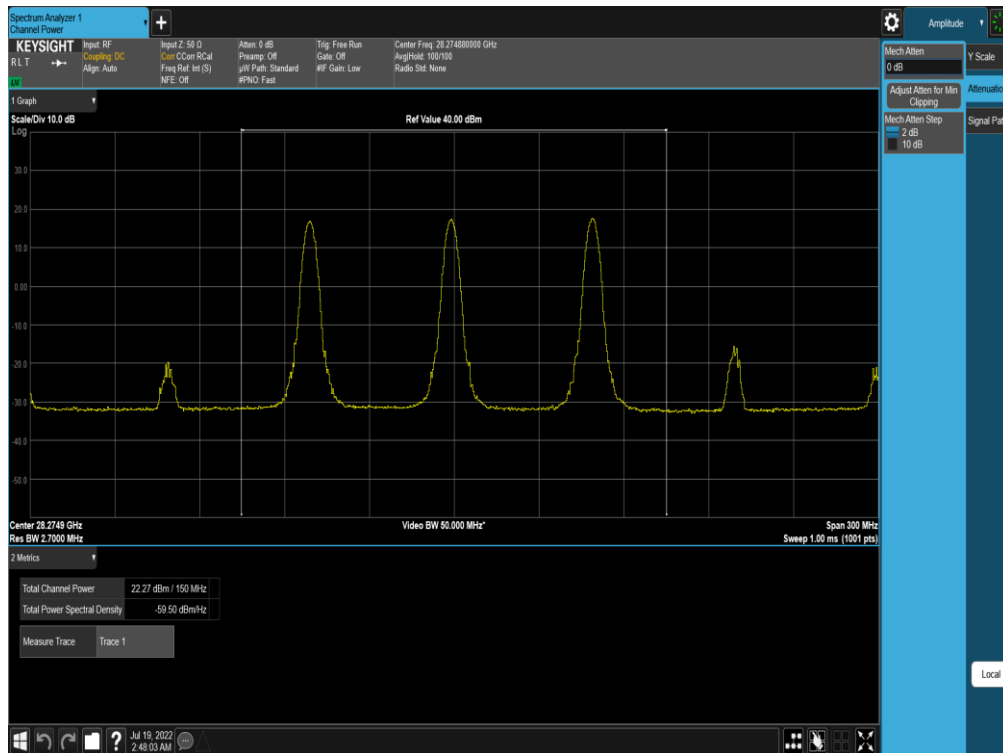


Plot 9-51. Ant M2 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

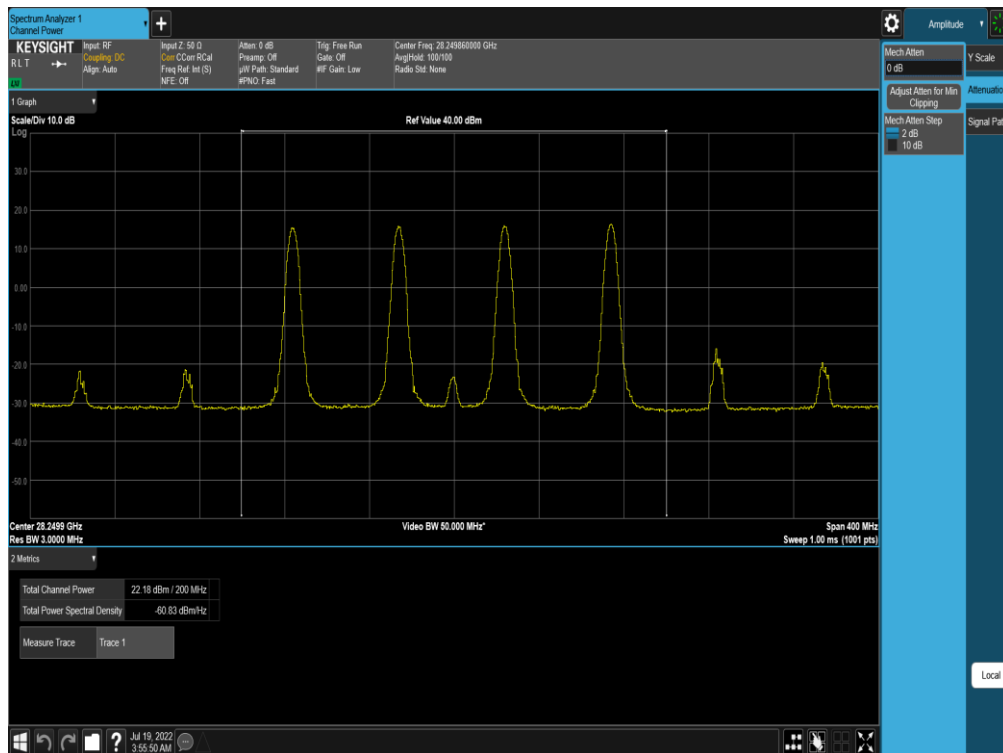


Plot 9-52. Ant M2 EIRP Plot (Band n261-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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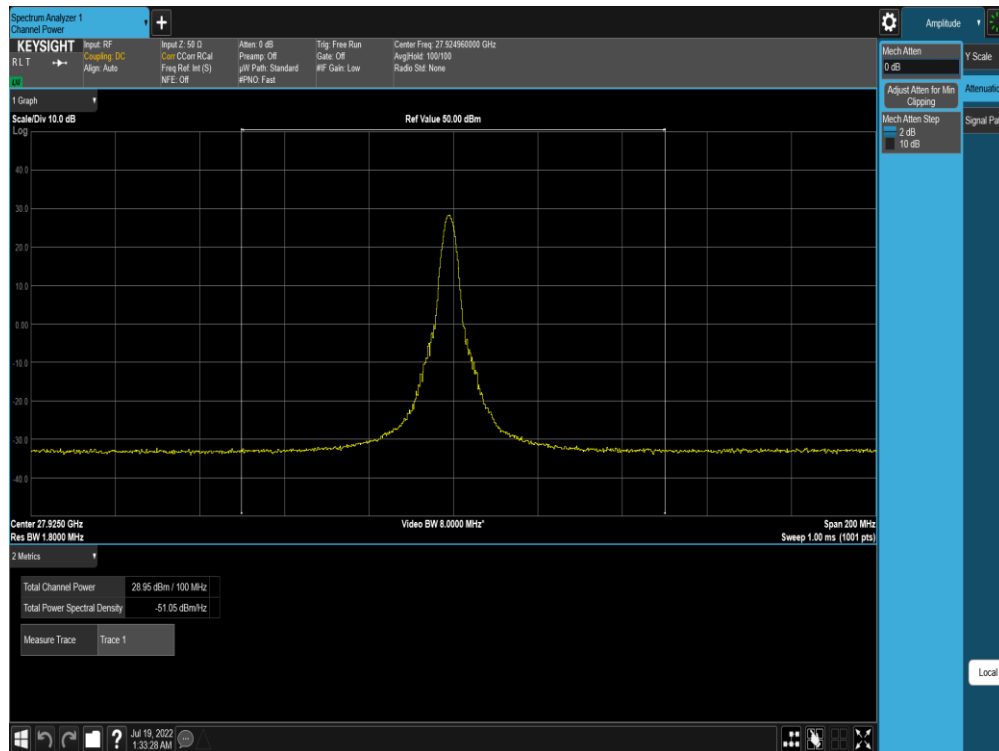


Plot 9-53. Ant M2 EIRP Plot (Band n261-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)

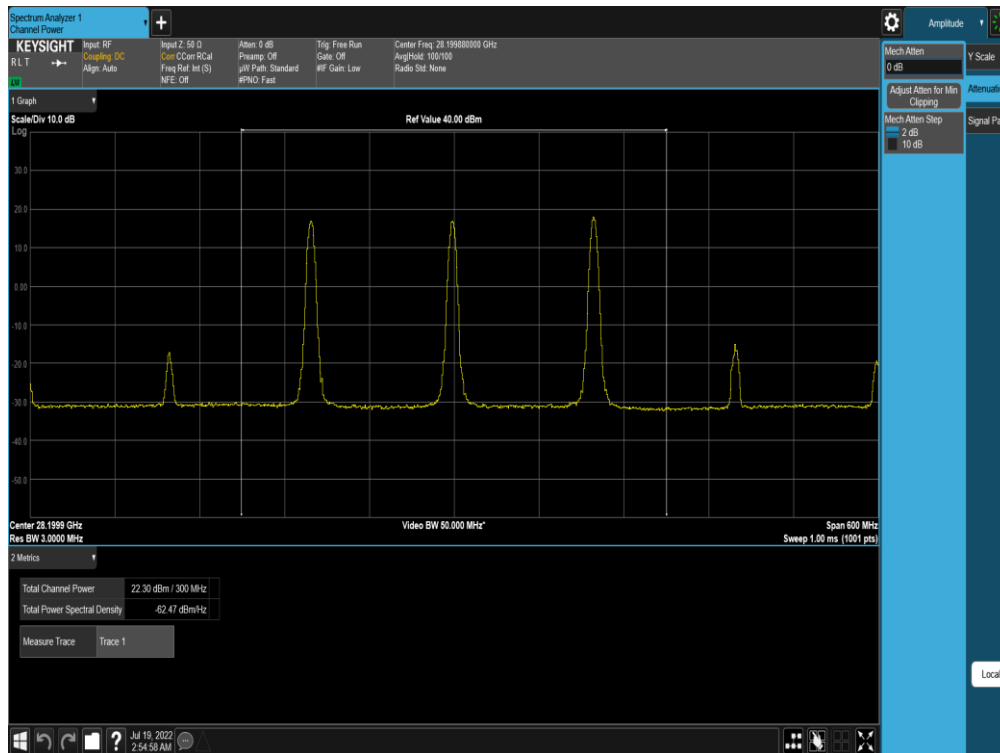


Plot 9-54. Ant M2 EIRP Plot (Band n261-50MHz-4CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)

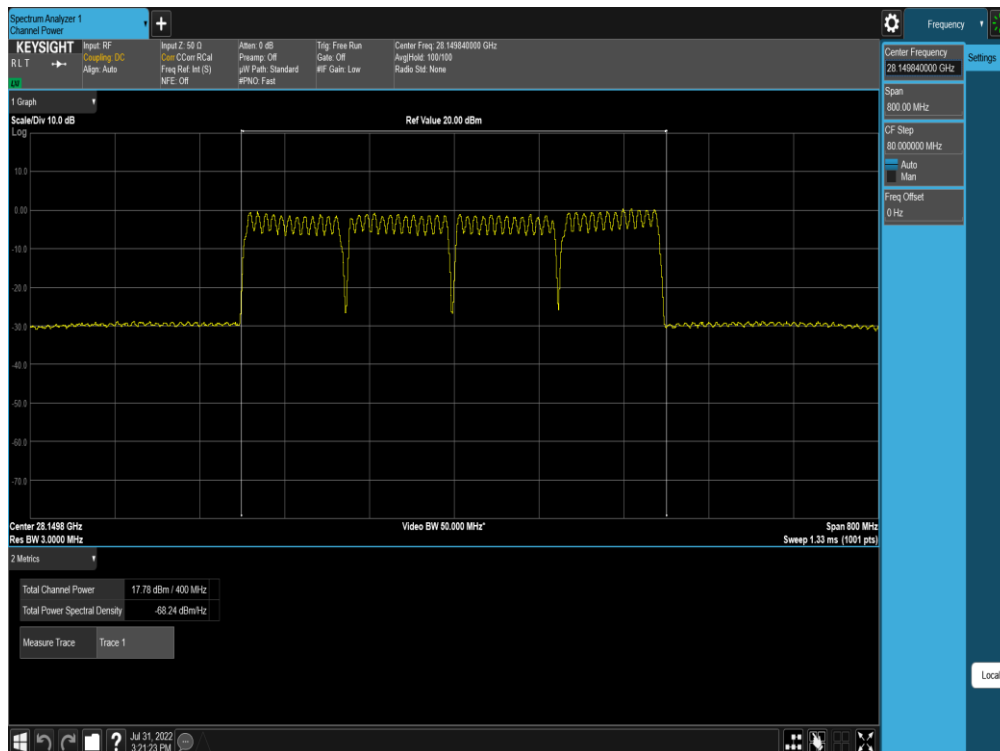
FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 965 of 999



FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 966 of 999



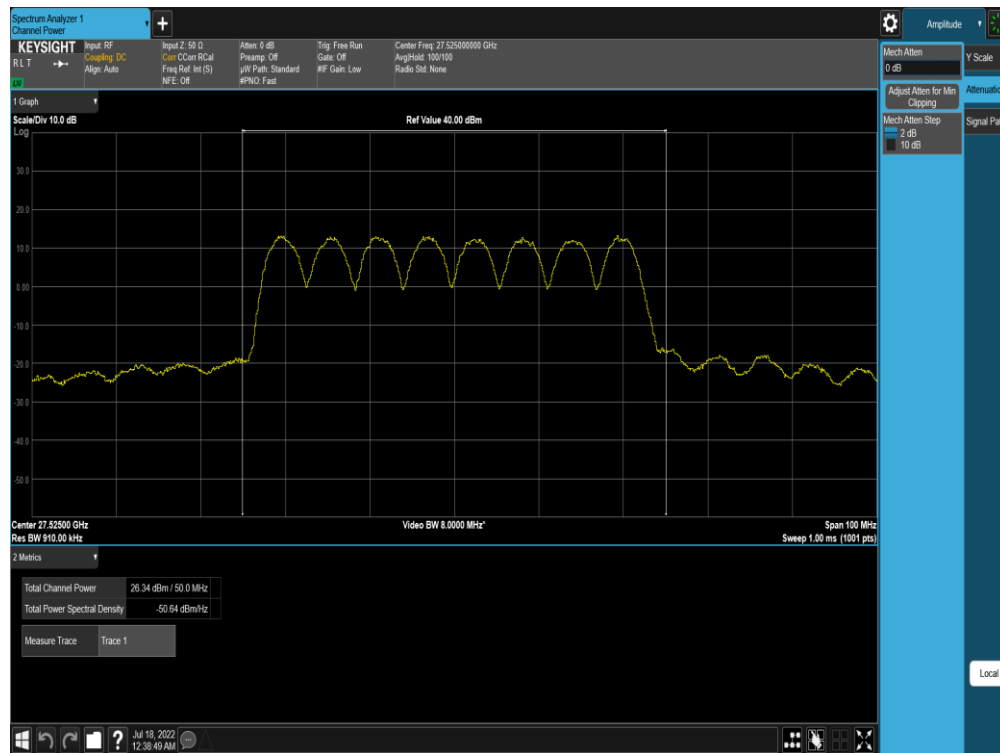
Plot 9-57. Ant M2 EIRP Plot (Band n261-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – High Channel)



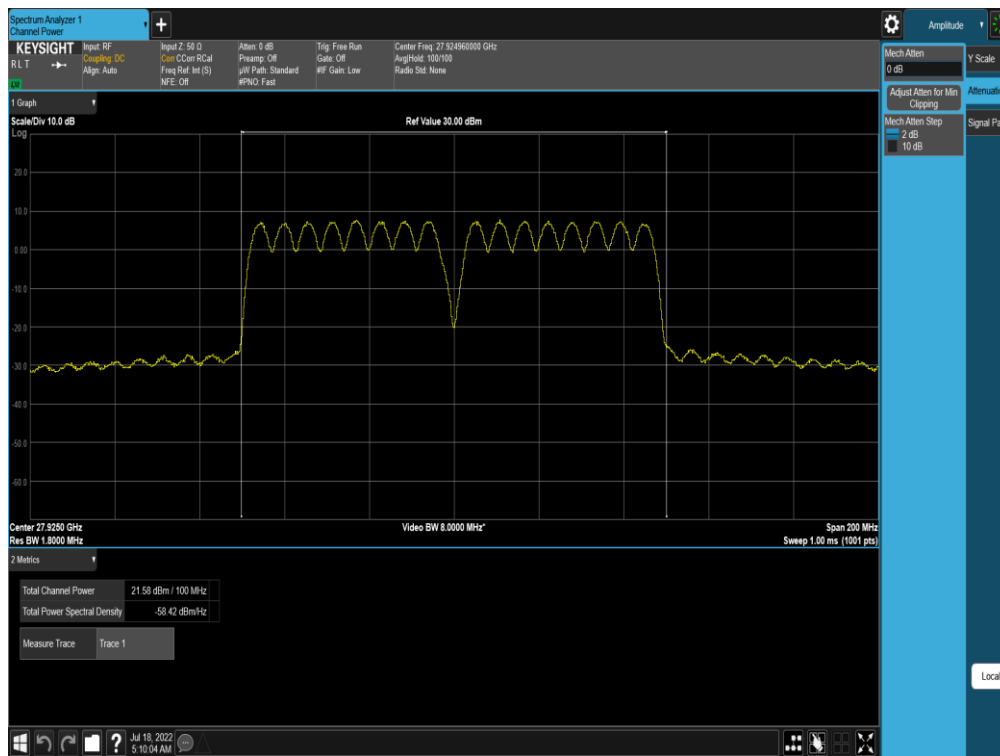
Plot 9-58. Ant M2 EIRP Plot (Band n261-100MHz-4CC SISO Dual Pol DFTs-OFDM – QPSK– High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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9.1.9 Band n261 – Ant M3

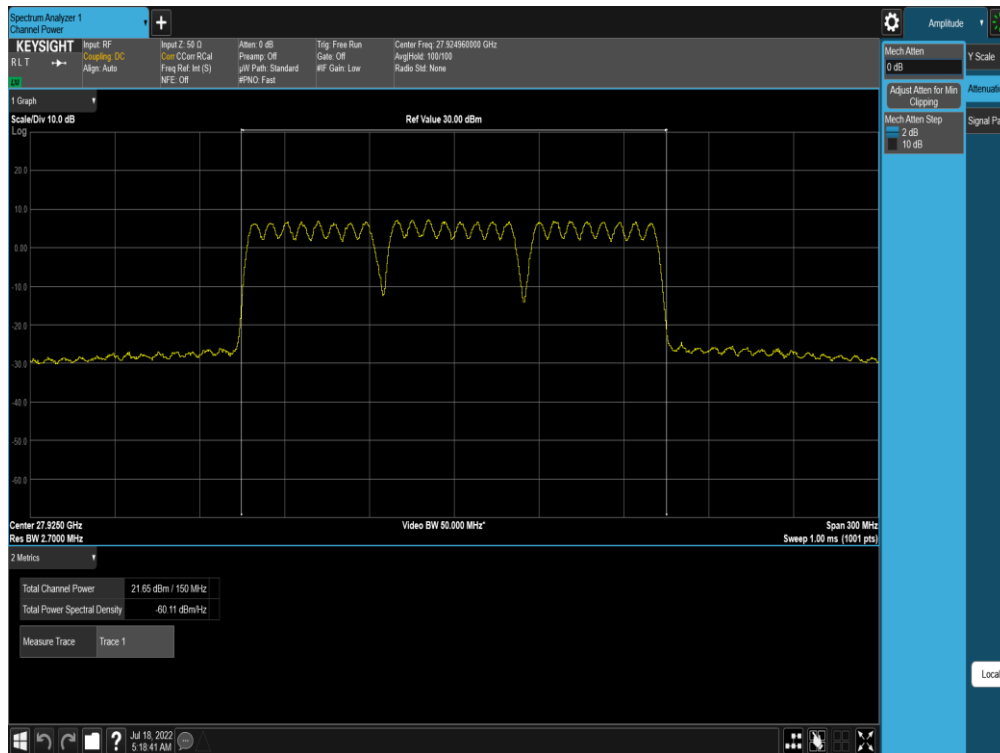


Plot 9-59. Ant M3 EIRP Plot (Band n261-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK– Low Channel)

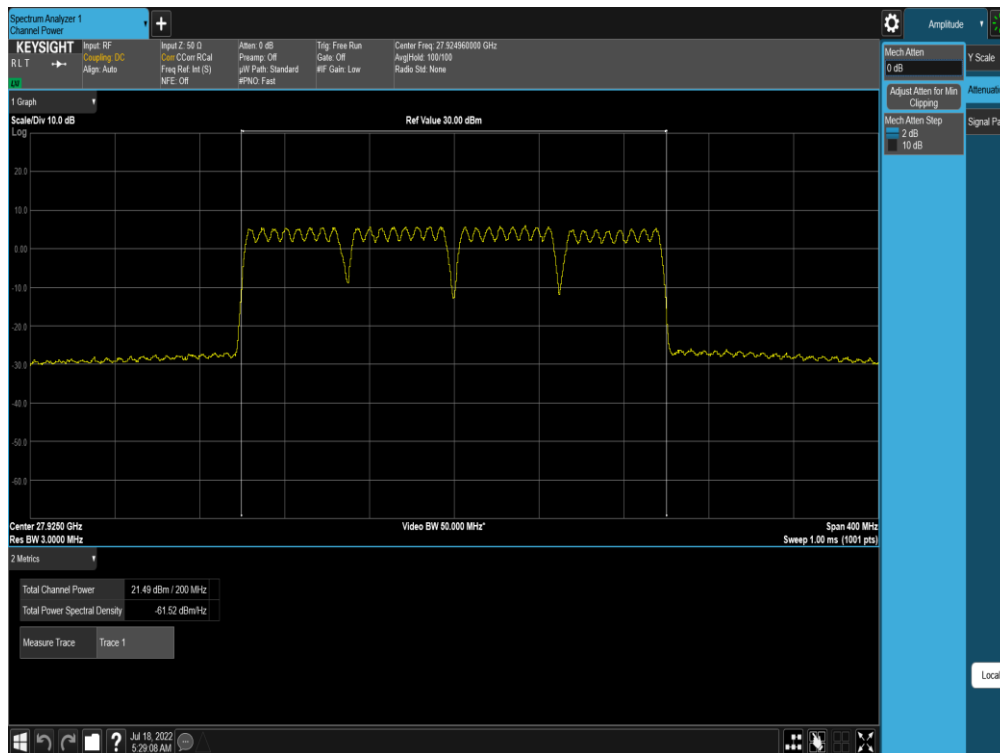


Plot 9-60. Ant M3 EIRP Plot (Band n261-50MHz-2CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 968 of 999

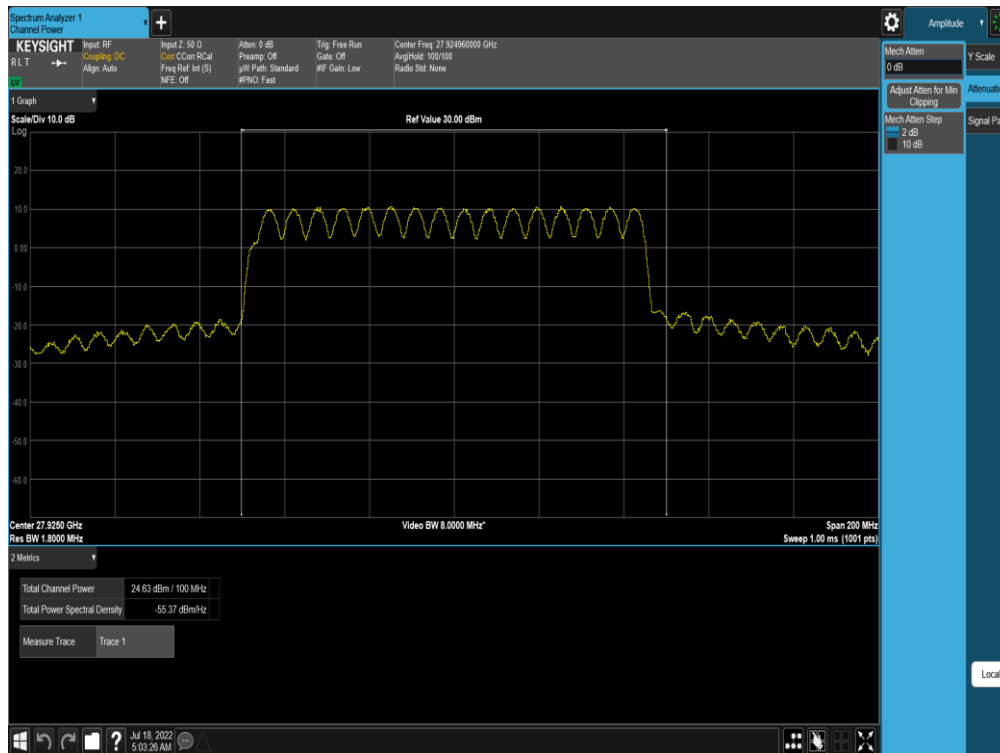


Plot 9-61. Ant M3 EIRP Plot (Band n261-50MHz-3CC MIMO CP-OFDM – QPSK – Mid Channel)

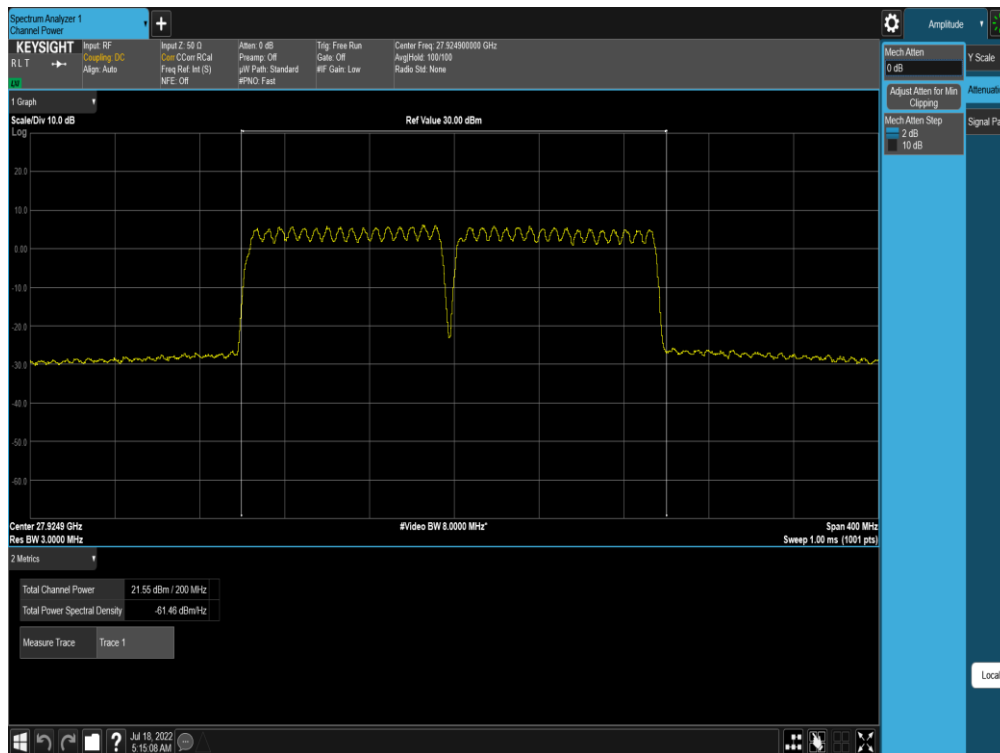


Plot 9-62. Ant M3 EIRP Plot (Band n261-50MHz-4CC MIMO CP-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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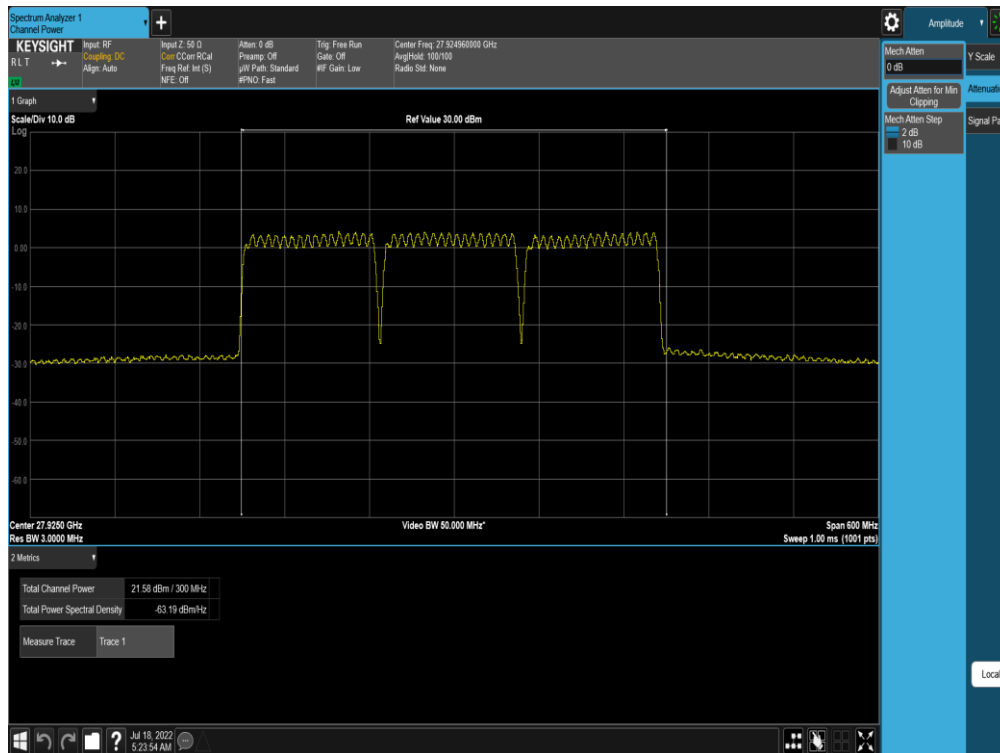


Plot 9-63. Ant M3 EIRP Plot (Band n261-100MHz-1CC MIMO CP-OFDM – QPSK – Mid Channel)

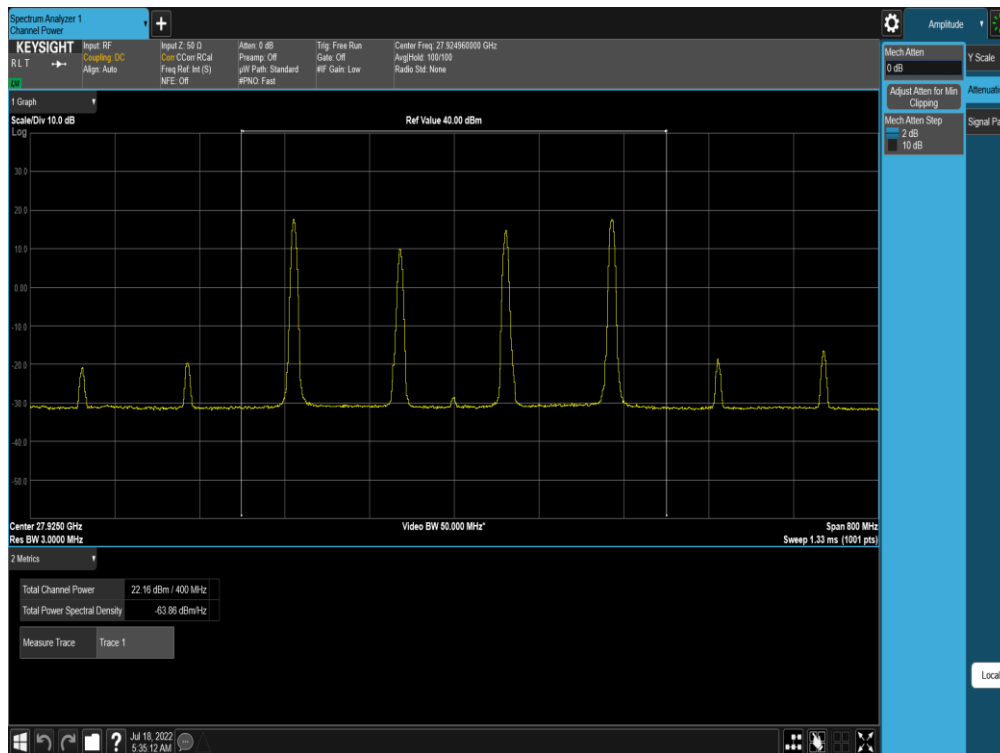


Plot 9-64. Ant M3 EIRP Plot (Band n261-100MHz-2CC MIMO CP-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device		Page 970 of 999



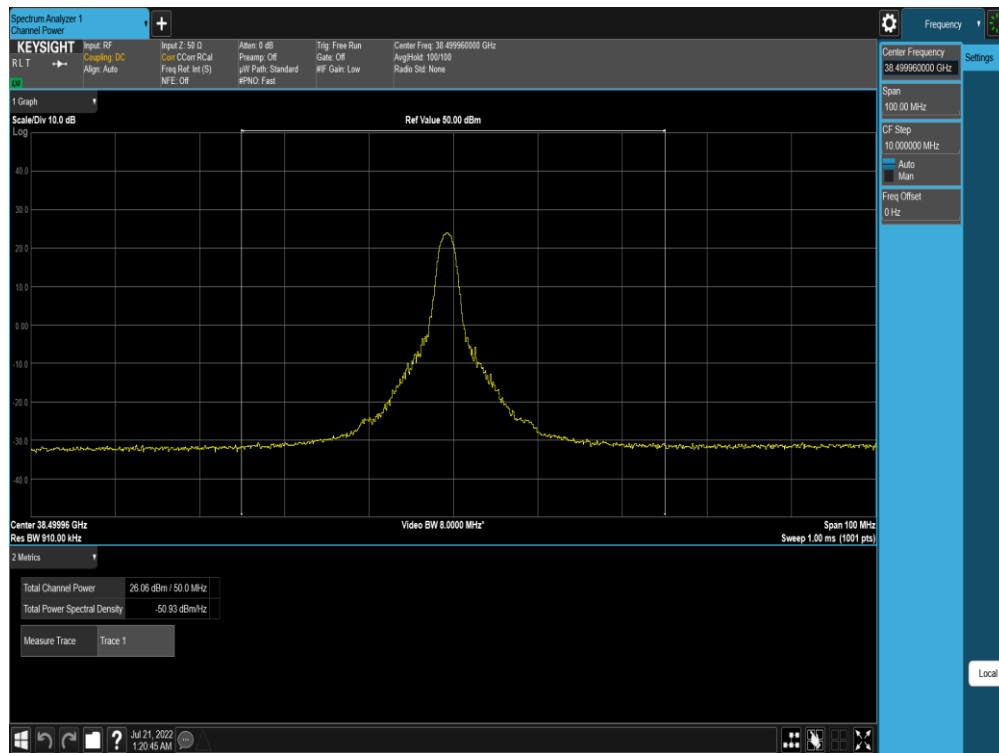
Plot 9-65. Ant M3 EIRP Plot (Band n261-100MHz-3CC MIMO CP-OFDM – QPSK – Mid Channel)



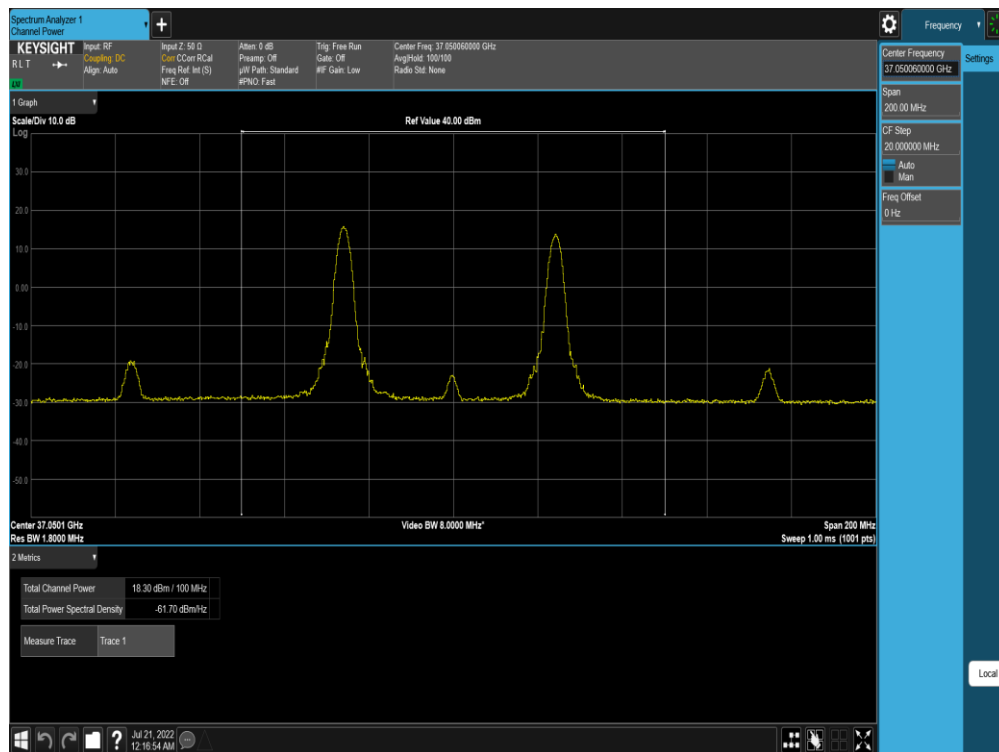
Plot 9-66. Ant M3 EIRP Plot (Band n261-100MHz-4CC MIMO CP-OFDM – QPSK – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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9.1.10 Band n260 – Ant M0

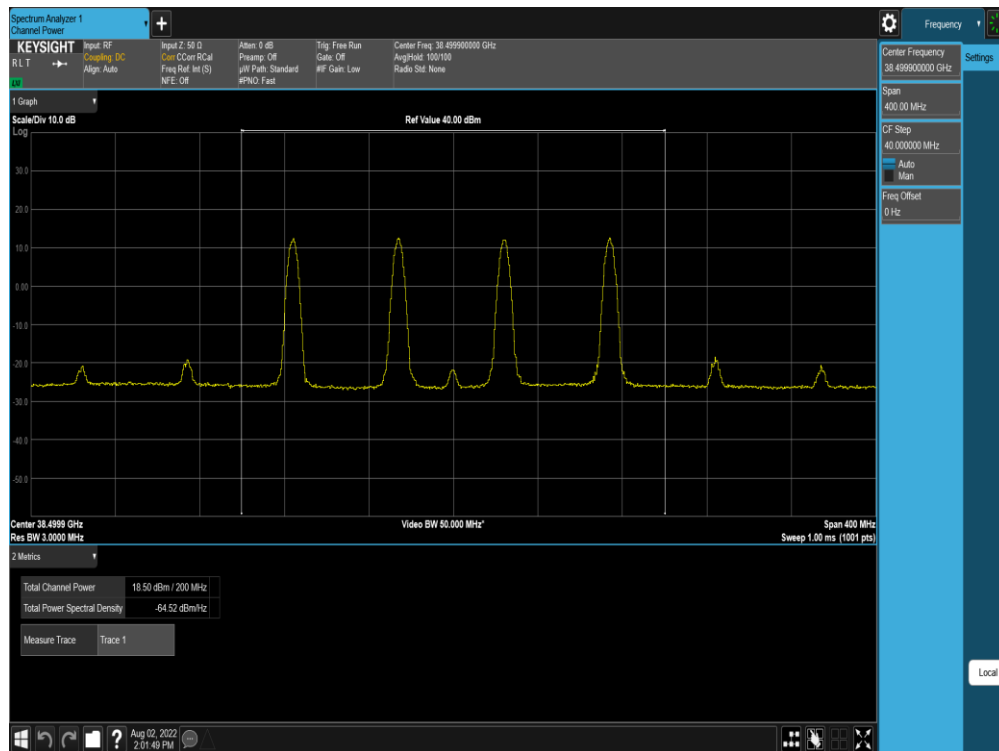
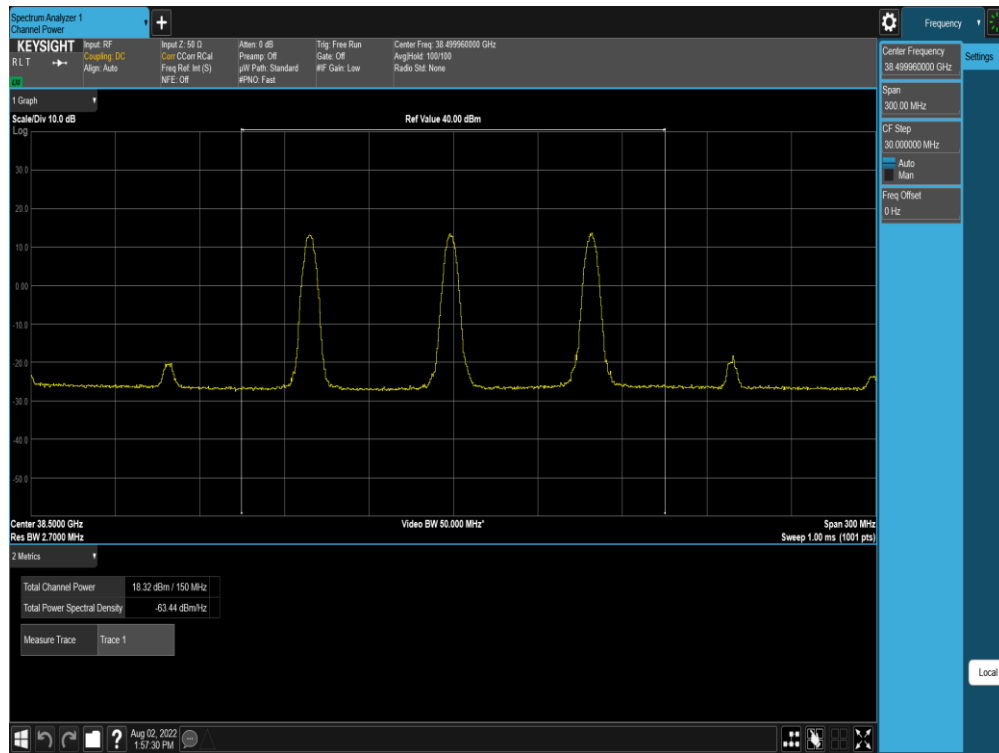


Plot 9-67. Ant M0 EIRP Plot (Band n260-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

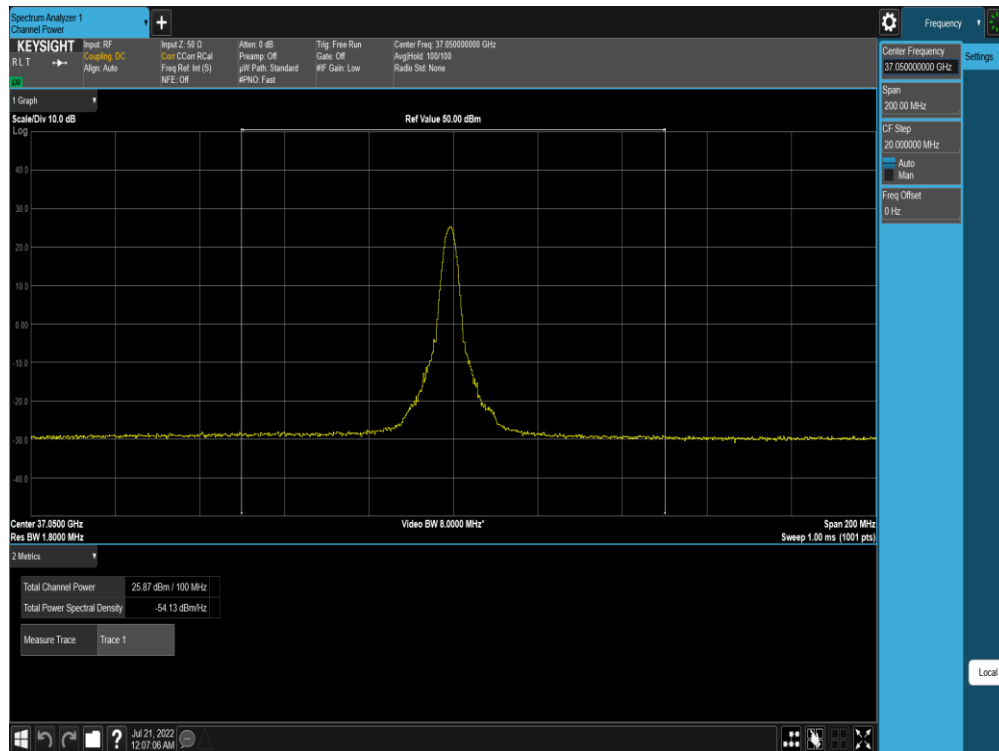


Plot 9-68. Ant M0 EIRP Plot (Band n260-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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Plot 9-71. Ant M0 EIRP Plot (Band n260-100MHz-1CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Low Channel)



Plot 9-72. Ant M0 EIRP Plot (Band n260-100MHz-2CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – High Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2205090028-06-R1.BCG	Test Dates: 5/30/2022 – 9/24/2022	EUT Type: Tablet Device	Page 974 of 999



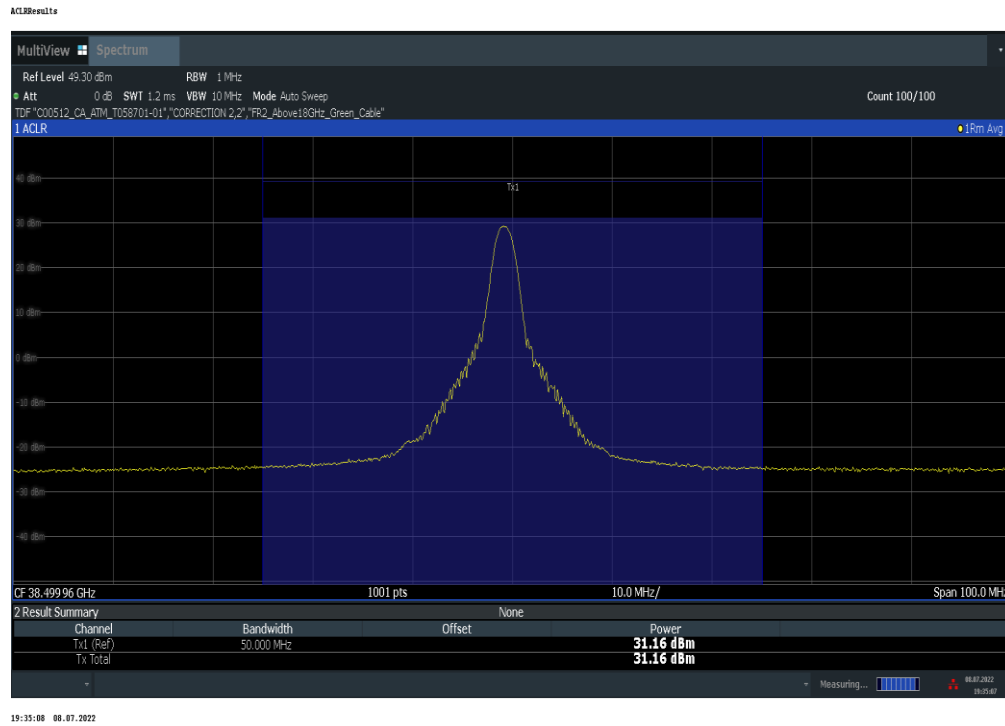
Plot 9-73. Ant M0 EIRP Plot (Band n260-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



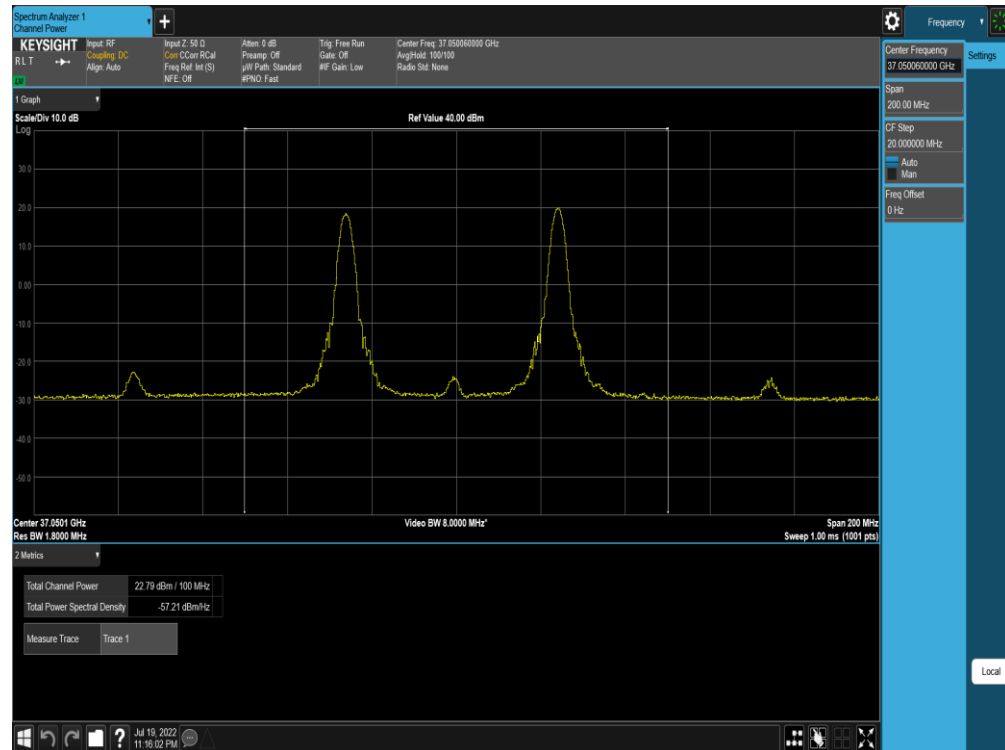
Plot 9-74. Ant M0 EIRP Plot (Band n260-100MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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9.1.11 Band n260 – Ant M2

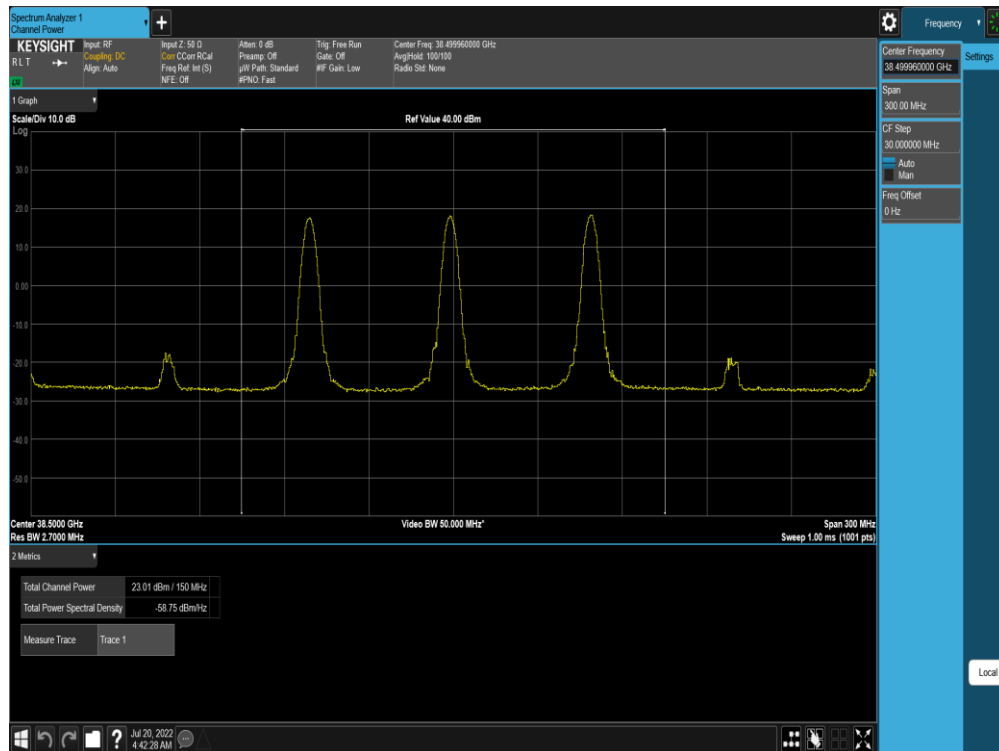


Plot 9-75. Ant M2 EIRP Plot (Band n260-50MHz-1CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)

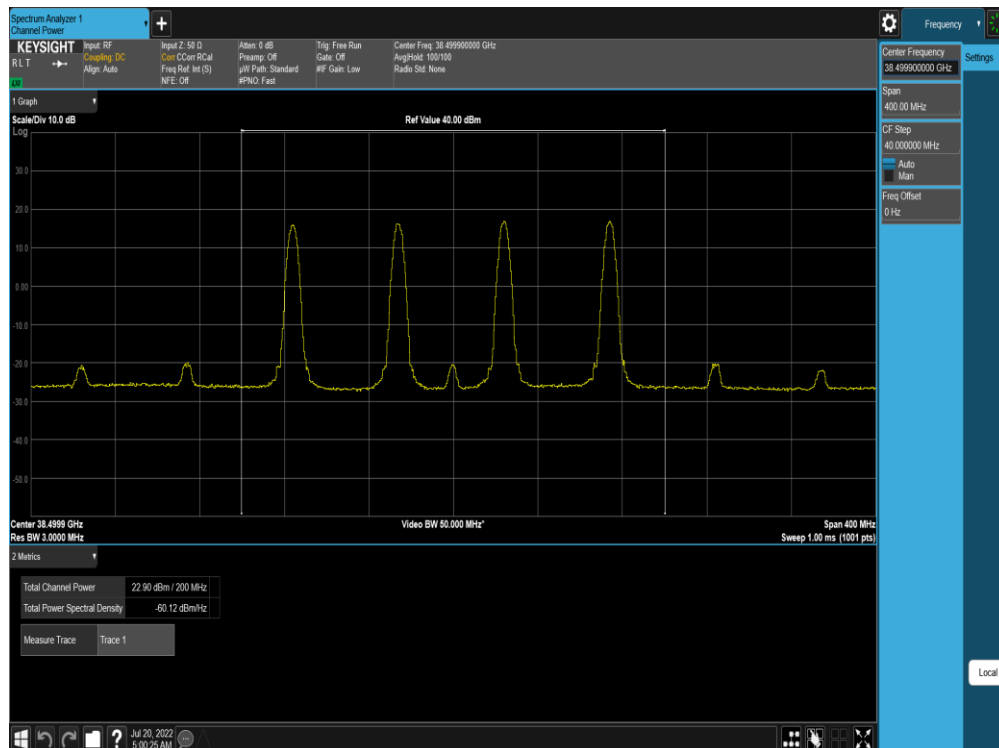


Plot 9-76. Ant M2 EIRP Plot (Band n260-50MHz-2CC SISO Dual Pol DFTs-OFDM – QPSK – Low Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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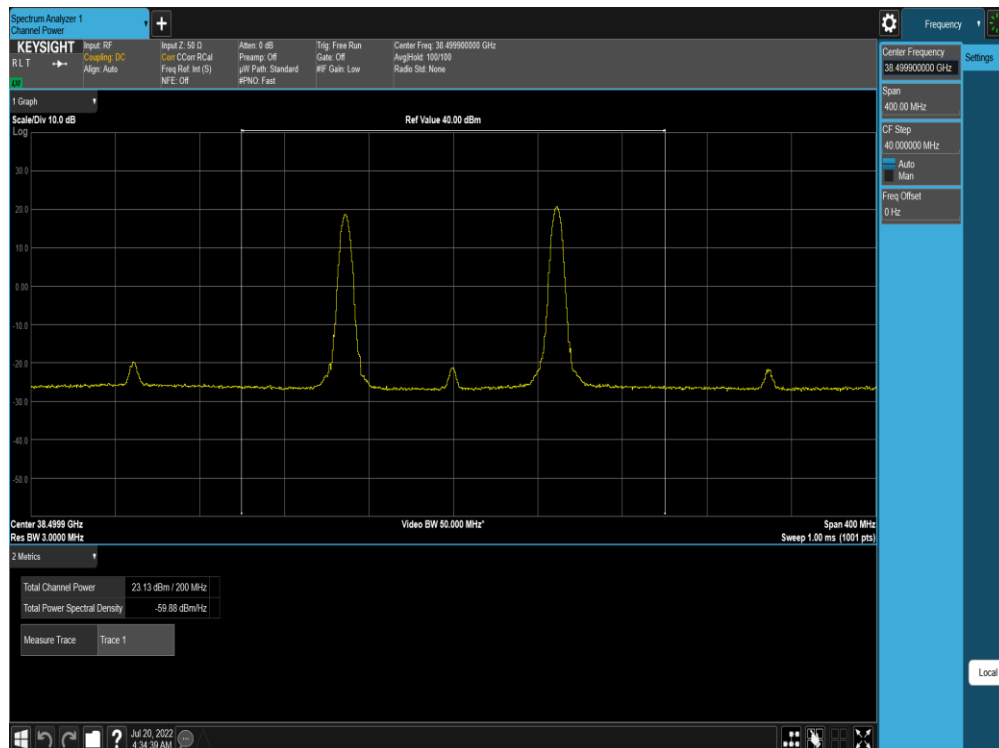
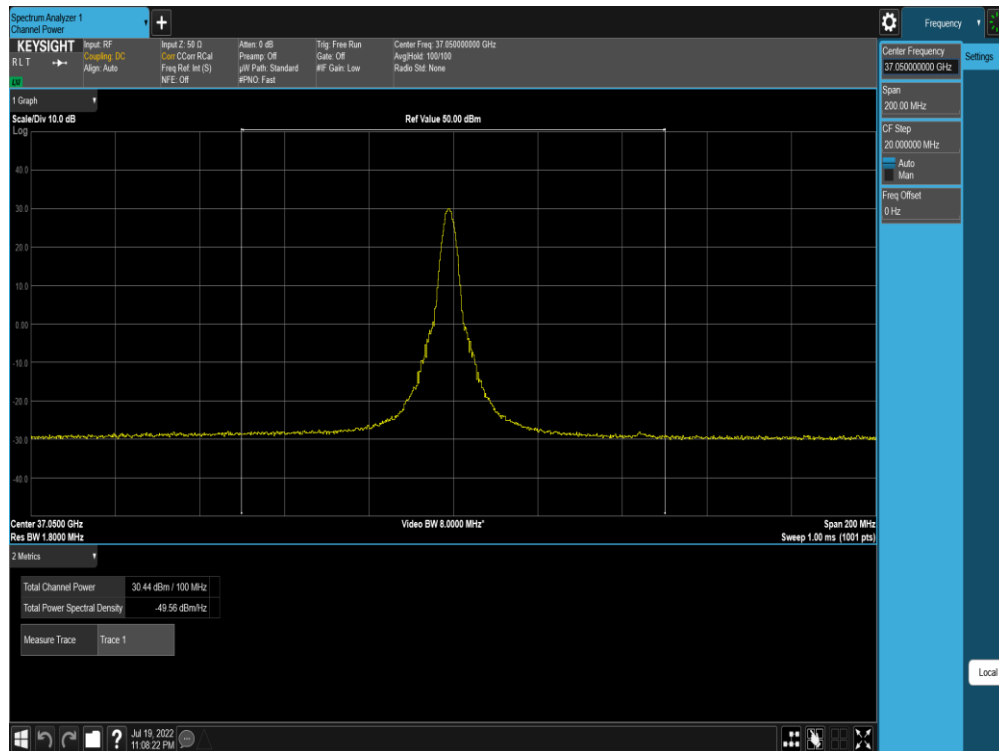


Plot 9-77. Ant M2 EIRP Plot (Band n260-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



Plot 9-78. Ant M2 EIRP Plot (Band n260-50MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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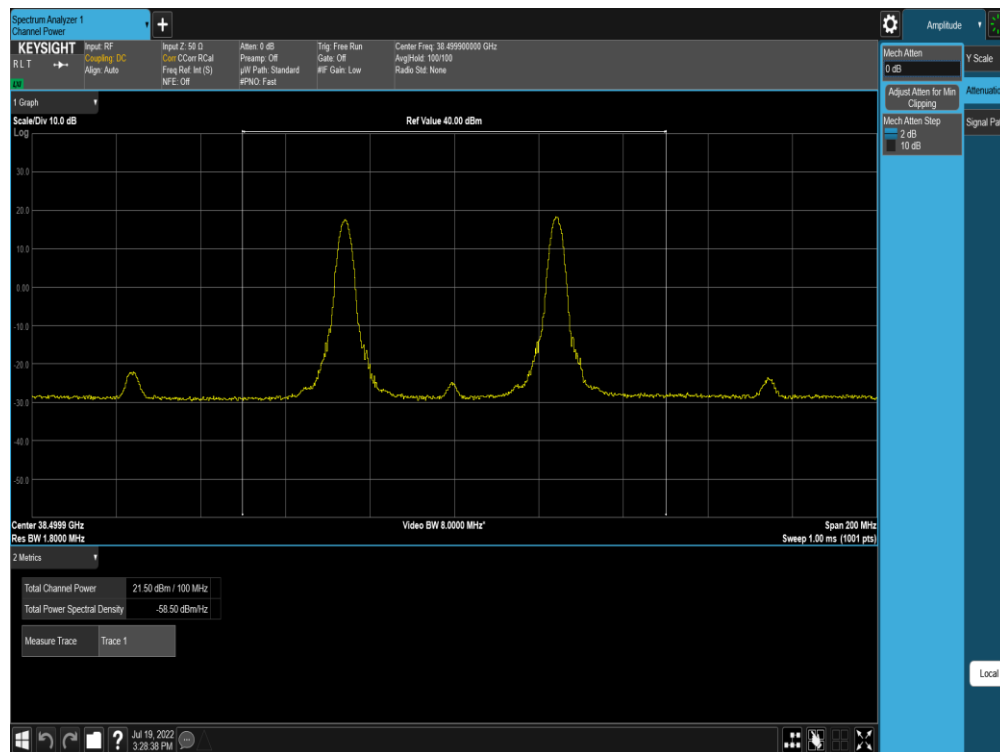
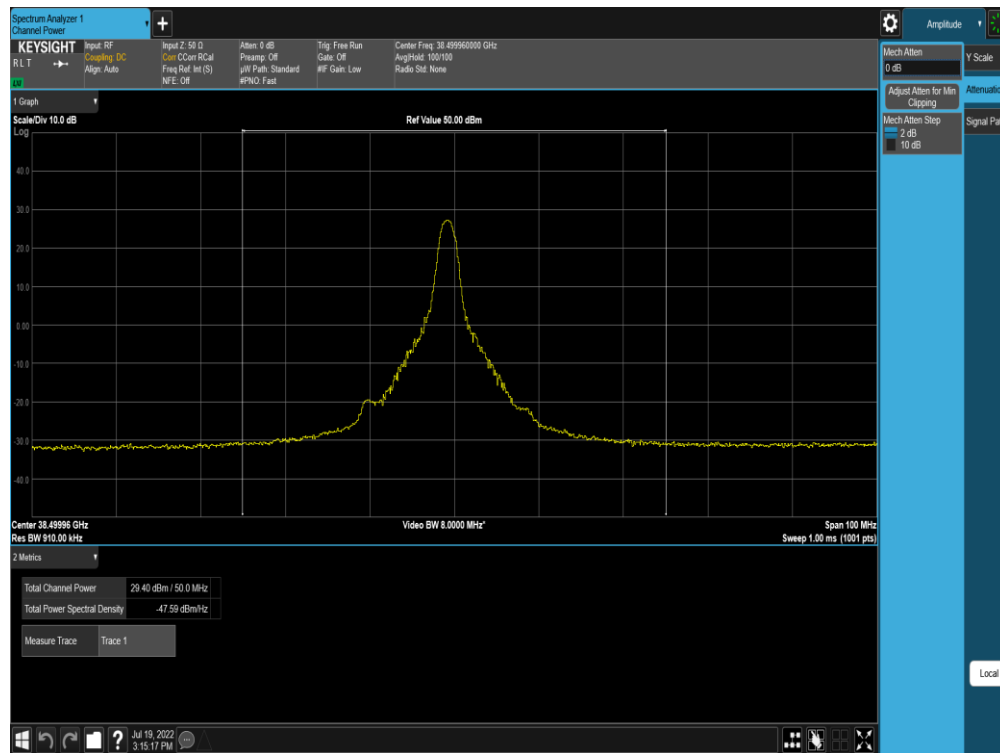
Plot 9-81. Ant M2 EIRP Plot (Band n260-100MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



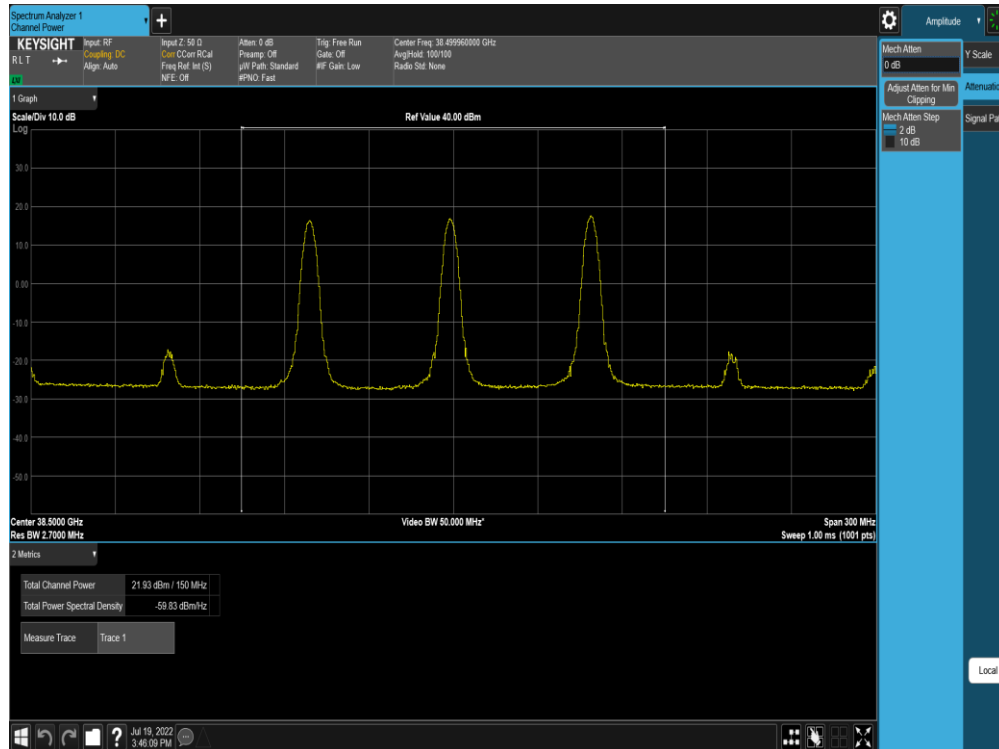
Plot 9-82. Ant M2 EIRP Plot (Band n260-100MHz-4CC SISO Dual Pol DFTs-OFDM – 16QAM – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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9.1.12 Band n260 – Ant M3



FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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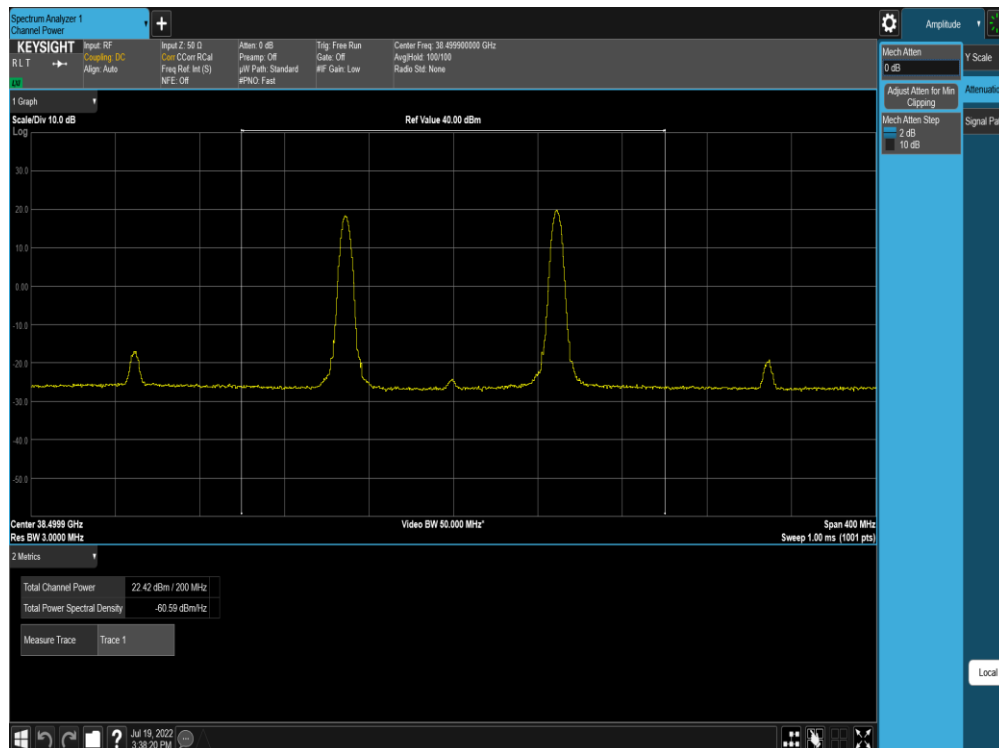
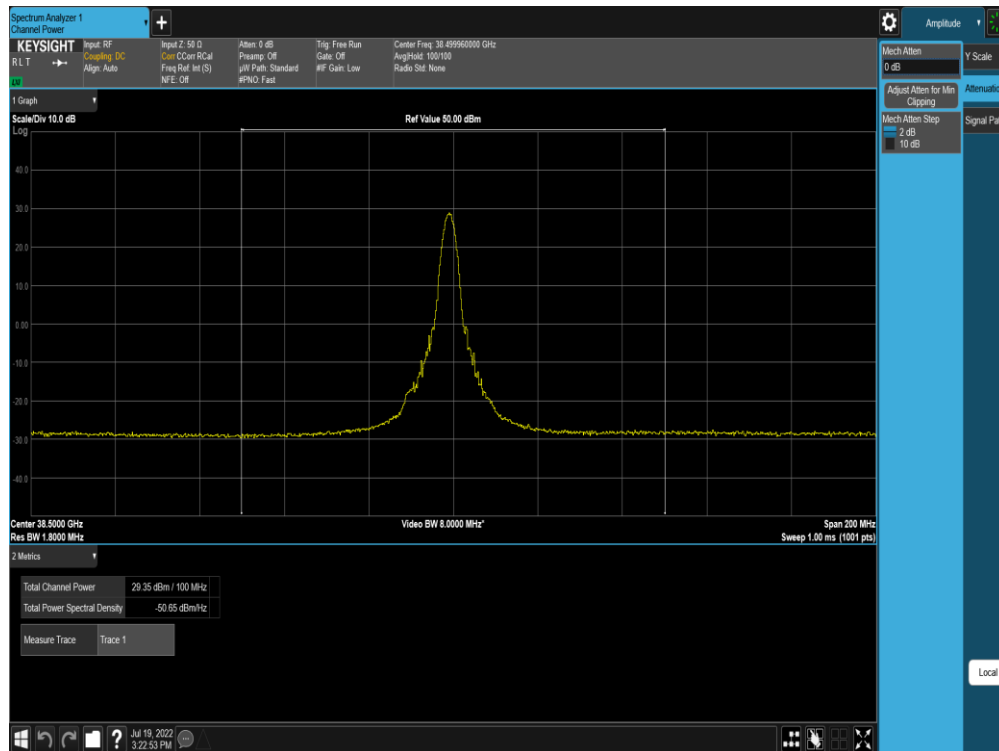


Plot 9-85. Ant M3 EIRP Plot (Band n260-50MHz-3CC SISO Dual Pol DFTs-OFDM – QPSK – Mid Channel)



Plot 9-86. Ant M3 EIRP Plot (Band n260-50MHz-4CC SISO Dual Pol DFTs-OFDM – $\pi/2$ BPSK – Mid Channel)

FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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10.0 APPENDIX B

10.1 VDI Mixer Verification Certificate



Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

ATG
 1/19/2021

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
 18855 Adams Court
 Morgan Hill, CA 95037
 United States

From: Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 210076 ✓
 Shipping Date: 01/11/21

Today's Date: 01/12/21 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR19.0SAX S/N: SAX 782 ✓ 001194	20516A-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).


 Authorized Signature
 Virginia Diodes, Inc

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Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

AE
12/2/2020

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
18855 Adams Court
Morgan Hill, CA 95037
United States

From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

Packing List No: 204092
Shipping Date: 11/25/20

Today's Date: 11/25/20 ✓
PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR12.0SAX S/N: SAX 783 ✓ C01146	20516B-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc

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FCC ID: BCGA2764		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

AE.
 1/19/2021

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
 18855 Adams Court
 Morgan Hill, CA 95037
 United States

From: Virginia Diodes, Inc
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 204111
 Shipping Date: 12/01/20

Today's Date: 12/02/20 ✓
 PO Number: 201019.NM1

Quantity


Shipped Unit Description

1 EA VDIWR8.0SAX S/N: SAX 784 ✓
 C01203

**Order-Job
 Number** ✓

20516C-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).


 Authorized Signature
 Virginia Diodes, Inc

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Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902
 Phone: 434-297-3257
 Fax: 434-297-3258

2/4/2021
 AE

AN: C01172 ✓

Certificate of Conformance ✓

To: PCTEST Engineering Laboratory ✓
 18855 Adams Court
 Morgan Hill, CA 95037
 United States

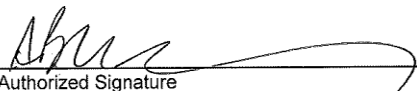
From: Virginia Diodes, Inc ✓
 979 2nd St. SE
 Suite 309
 Charlottesville, VA 22902

Packing List No: 210383
 Shipping Date: 02/03/21

Today's Date: 02/03/21 ✓
 PO Number: 201019.NM1

Quantity	Shipped	Unit	Description	Order-Job Number
1		EA	VDIWR5.1SAX ✓ WR5.1SAX / SN: SAX 785 ✓	20516D-01

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).


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10.2 Manufacturer's Antenna Gain Curves for Standard Gain Horn Antennas

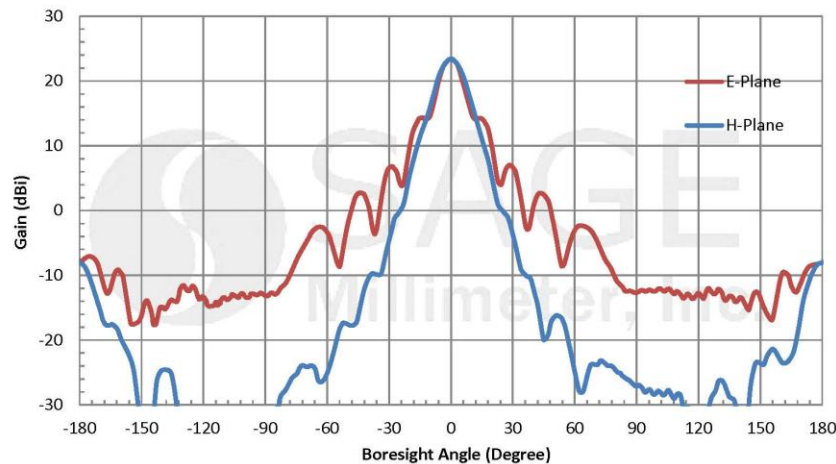
WR-19 Horn Antenna, 23 dBi Gain (40-60 GHz)

SAR-2309-19-S2

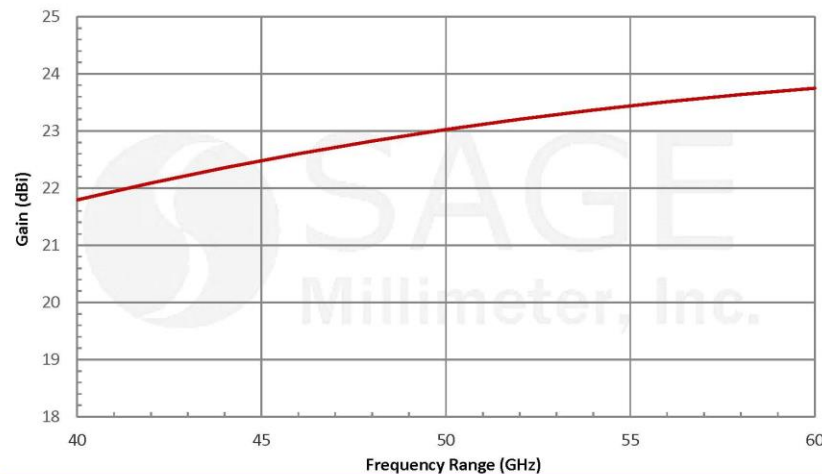
Rev. 1.1

WR-19 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 50 GHz



Typical Gain vs. Frequency



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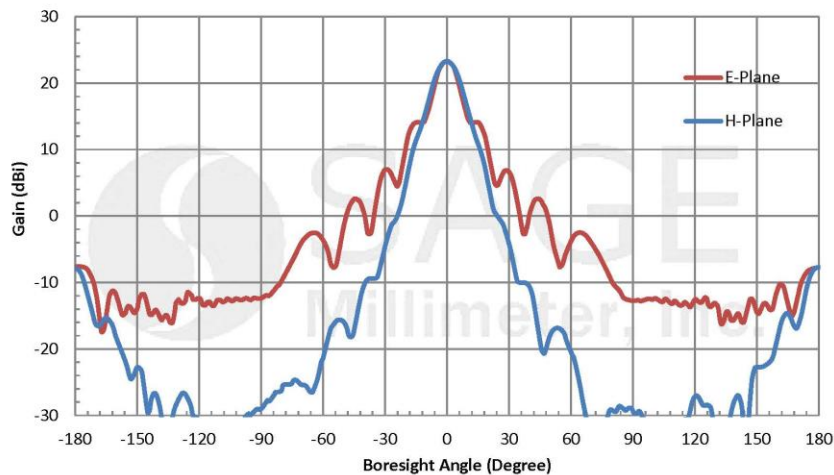
V2.0 5/30/2022

SAR-2309-12-S2

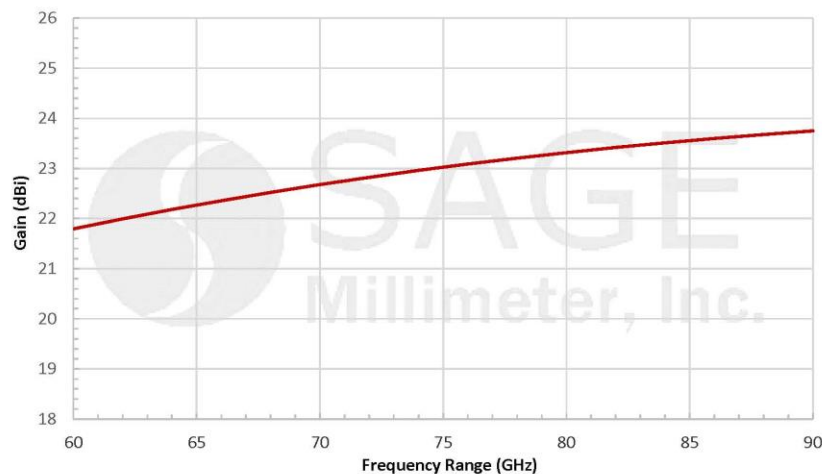
Rev. 1.1

WR-12 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 75 GHz



Typical Gain vs. Frequency



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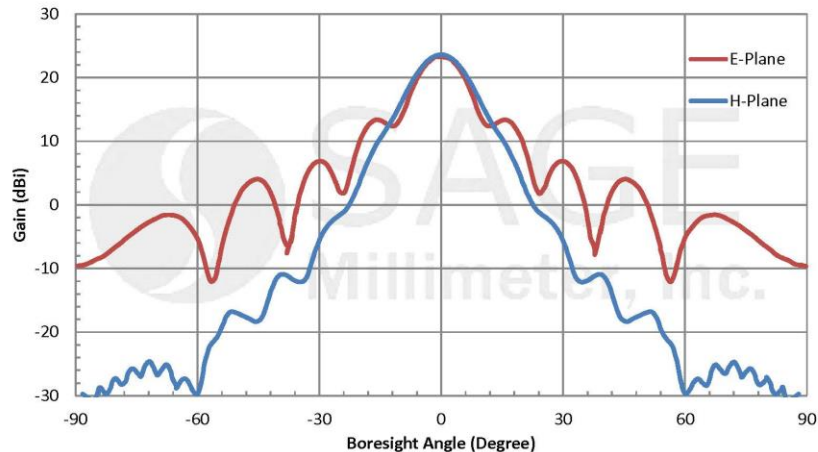
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SAR-2309-08-S2

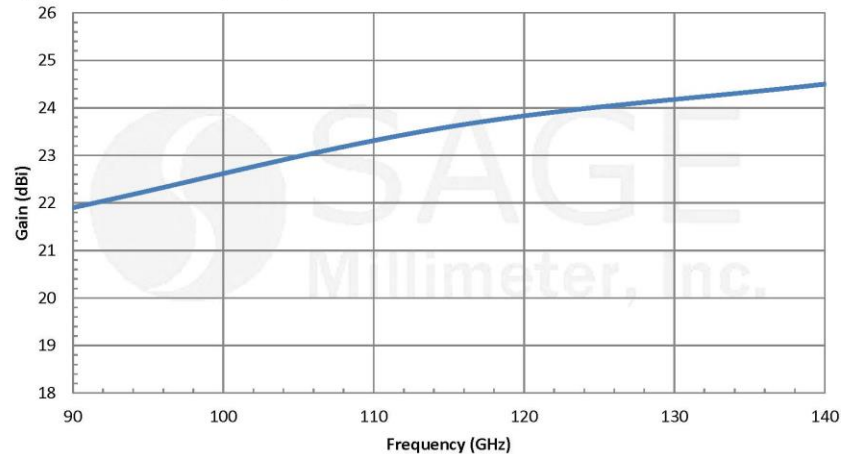
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WR-08 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 115 GHz



Typical Gain vs. Frequency



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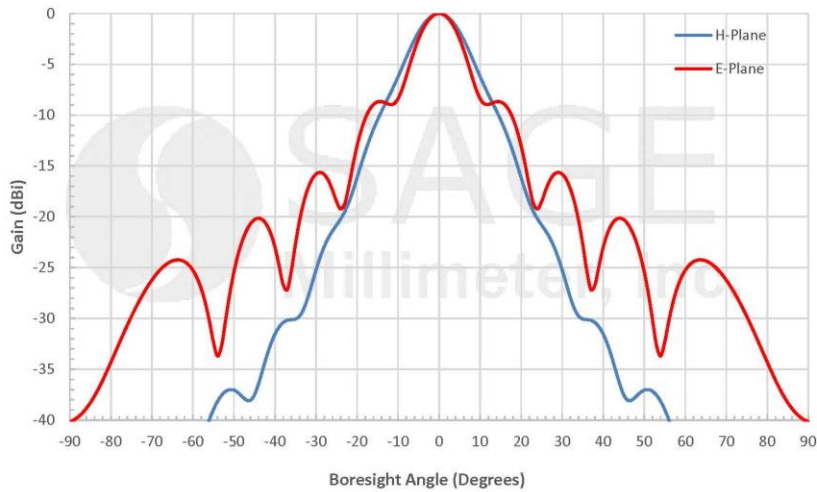
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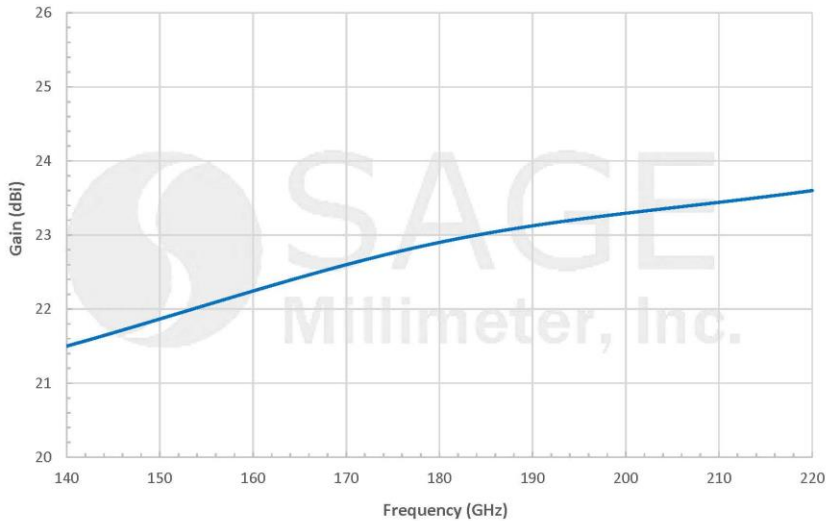
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WR-05 Pyramidal Horn Antenna, 23 dBi Gain

Typical Antenna Pattern @ 180 GHz



Typical Gain vs. Frequency



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