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March 2, 2017

CommScope
250 Apollo Drive
Chelmsford, MA 01824

Dear Kevin Craig,

Enclosed is the EMC Wireless test report for compliance testing of the CommScope, OneCell Outdoor Radio Point, 57 V as tested to the requirements of the FCC Certification rules under Title 47 of the CFR Part 27 Subpart C for Broadband Radio Service (BRS) Devices.

Thank you for using the services of MET Laboratories, Inc. If you have any questions regarding these results or if MET can be of further service to you, please contact me.

Sincerely yours,
MET LABORATORIES, INC.

Jennifer Warnell
Documentation Department

Reference: (\CommScope\EMC88882-FCC27 REV. 3)

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Electromagnetic Compatibility Criteria Test Report

for the

**CommScope
Model OneCell Outdoor Radio Point, 57 V**

**Tested under
FCC Certification Rules
Title 47 of the CFR, Part 27 Subpart C**

MET Report: EMC88882-FCC27 REV. 3

March 2, 2017

Prepared For:

**CommScope
250 Apollo Drive
Chelmsford, MA 01824**

**Prepared By:
MET Laboratories, Inc.
914 W. Patapsco Ave
Baltimore, MD 21230**



Electromagnetic Compatibility Criteria Test Report

for the

**CommScope
Model OneCell Outdoor Radio Point, 57 V**

Tested Under

**FCC Certification Rules
Title 47 of the CFR, Part 27 Subpart C
& RSS-139, Issue 2, February 2009**

Deepak Giri, Project Engineer
Electromagnetic Compatibility Lab

Jennifer Warnell
Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of Part 27 M of the FCC Rule under normal use and maintenance.

Asad Bajwa,
Director, Electromagnetic Compatibility Lab



CommScope
OneCell Outdoor Radio Point, 57 V

Electromagnetic Compatibility
Report Status
CFR Title 47 Part 27

Report Status Sheet

Revision	Report Date	Reason for Revision
Ø	November 22, 2016	Initial Issue.
1	February 2, 2017	Added 5 MHz and 10 MHz Data
2	February 24, 2017	Engineer corrections.
3	March 2, 2017	Engineer corrections.

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List of Terms and Abbreviations

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
d	Measurement Distance
dB	Decibels
dBμA	Decibels above one microamp
dBμV	Decibels above one microvolt
dBμA/m	Decibels above one microamp per meter
dBμV/m	Decibels above one microvolt per meter
DC	Direct Current
E	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
f	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
H	Magnetic Field
HCP	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	Kilohertz
kPa	Kilopascal
kV	Kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μH	Microhenry
μ	Microfarad
μs	Microseconds
NEBS	Network Equipment-Building System
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane



I. Executive Summary



A. Purpose of Test

An EMC evaluation was performed to determine compliance of the CommScope OneCell Outdoor Radio Point, 57 V, with the requirements of Part 27. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the OneCell Outdoor Radio Point, 57 V. CommScope should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the OneCell Outdoor Radio Point, 57 V, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 27, in accordance with CommScope, quote number 60220.

Reference	Description	Compliance
§2.1046; §27.50(h)	RF Power Output	Compliant
§2.1047	Modulation Characteristics	Not Applicable
§2.1049	Occupied Bandwidth	Compliant
§27.53	Emissions in GPS Bands	Not Applicable – EUT does not operate in the 700-800 MHz bands.
§2.1051; §27.53(l)	Spurious Emissions at Antenna Terminals	Compliant
§2.1053	Radiated Spurious Emissions	Compliant
§2.1055	Frequency Stability over Temperature Variations	Compliant

Table 1. Executive Summary of EMC Compliance Testing

II. Equipment Configuration

A. Overview

MET Laboratories, Inc. was contracted by CommScope to perform testing on the OneCell Outdoor Radio Point, 57 V, under CommScope's quote number 60220.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the CommScope, OneCell Outdoor Radio Point, 57 V.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	OneCell Outdoor Radio Point, 57 V	
Model(s) Covered:	OneCell Outdoor Radio Point, 57 V	
EUT Specifications:	Primary Power: 57 VDC	
	Equipment Code:	PCB
	RF Output Power:	Band 4= 24.6 dBm Band 10= 24.7 dBm Band 12 = 24.7 dBm Band 13 = 25.3dBm Band 17 = 26 dBm
	EUT Frequency Range:	Band 4: 2112.5 MHz- 2152.5 MHz Band 10 :2112.5 mhz – 2167.5 mhz Band 12: 731.5 Mhz – 743.5 MHz Band 17 : 736.5 mhz – 743.5 mhz Band 13 : 748.5 mhz – 753.5 mhz
Analysis:	The results obtained relate only to the item(s) tested.	
Environmental Test Conditions:	Temperature: 15-35° C	
	Relative Humidity: 30-60%	
	Barometric Pressure: 860-1060 mbar	
Evaluated by:	Deepak Giri	
Date(s):	February 24, 2017	

Table 2. EUT Summary Table

B. References

CFR 47, Part 27	Federal Communication Commission, Code of Federal Regulations, Title 47, Part 27: Rules and Regulations for Advanced Wireless Services
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz
ISO/IEC 17025:2005	General Requirements for the Competence of Testing and Calibration Laboratories
ANSI/TIA-603-D- 2010	Land Mobile FM or PM Communication Equipment Measurement and Performance Standards
KDB 971168 D02 V01	<u>Misc OOBE License Digital Systems</u>

Table 3. Standard References

C. Test Site

All testing was performed at MET Laboratories, Inc., 914 West Patapsco Ave, Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a 3 meter semi-anechoic chamber (equivalent to an Open Area Test Site).

D. Description of Test Sample

The OneCell Outdoor Radio Point, 57 V, Equipment Under Test (EUT), is an LTE Quad band Radio Access Point. It is used to provide outdoor coverage for the LTE cellular users.

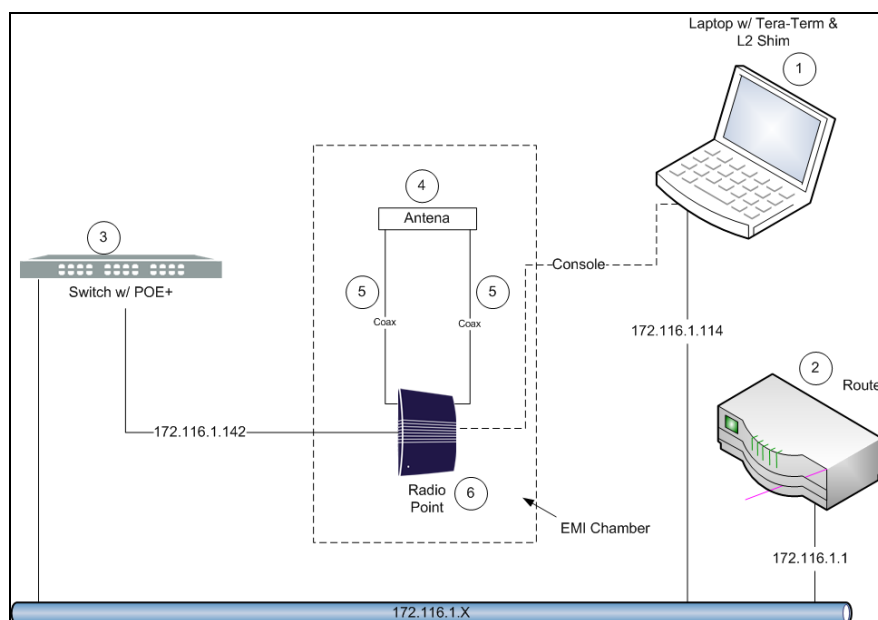


Figure 1. Block Diagram of Test Configuration

E. Equipment Configuration

Ref. ID	Name/Description	Model Number	Part Number	Serial Number
6	OneCell® Radio Point	RP-A2114	800250	--
4	Radio Point Antenna	CMZAX-DM20-CPUSEI53	N/A	L351503050194

Table 4. Equipment Configuration

F. Support Equipment

Ref. ID	Name / Description	Manufacturer	Model Number	Customer Supplied Calibration Data
1	Laptop	--	--	--
2	Ethernet Router	Linksys	EA2700	--
3	Ethernet Switch	Linksys	LG308P	--
5	Coax Cable	Huber-Suhner	--	--

Table 5. Support Equipment

G. Ports and Cabling Information

Ref. ID	Port Name on EUT	Cable Description or Reason for No Cable	Qty.	Max Length	Shielded? (Y/N)	Termination Box ID & Port Name
1	Ethernet/Power	Cat5 cable	1	10	N	Port 1 Ethernet Switch
2	Antenna port J1	Coax	1	--	Y	Antenna
3	Antenna port J2	Coax	1	--	Y	Antenna
4	Console	Signal	1	--	N	--

Table 6. Ports and Cabling Information

H. Mode of Operation

The EUT will be configured to operate in a specific band of interest using Tera Term Scripts and transmit test models supplied by the chip vendor per the 3GPP standard TS 36.141 Release 10.10. The test models will cover all of the test modes, 5, 10, 15 & 20 MHz bandwidth as well as the three modulation types, QPSK, 16QAM & 64 QAM. The EUT transmitter will provide a continuous transmit signal without manual intervention on it has been configured. For conducted testing the EUT will be controlled by a serial interface. For radiated test the EUT will be controlled by the Ethernet. Interface.

The EUT will require a reboot whenever band or bandwidth is changed.

Supported Frequency Bands and Bandwidths						
Frequency Band	Duplex	Uplink RX Frequency (MHz)	Downlink TX Frequency (MHz)	MAX Bandwidth (MHz)	MAX Output Power (dBm)	FCC PART
10	FDD	1710-1770	2110-2170	20	25	27
25	FDD	1850-1915	1930-1995	20	24	24
12	FDD	699-716	729-746	15	27	27
2	FDD	1850-1910	1930-1990	20	24	24
4	FDD	1710-1755	2110-2155	20	25	27
13	FDD	777-787	746-756	10	26	27
17	FDD	704-716	734-746	10	26	27

I. Method of Monitoring EUT Operation

The frequency of highest disturbance, with respect to the limit, was found by investigating disturbances at a number of significant frequencies. This provides confidence that the probable frequency of maximum disturbance has been found and that the associated cable, EUT arrangement and mode of operation has been identified.

J. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

K. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to CommScope upon completion of testing.



III. Electromagnetic Compatibility Criteria for Intentional Radiators



Electromagnetic Compatibility Criteria for Intentional Radiators

§ 2.1046 RF Power Output

Test Requirement(s): §2.1046 and §27.50(h) 27.50(b)(9)/ 27.50(d)(2)

27.50(b)(9) – Control stations and mobile stations transmitting in the 746- 757MHz, 776- 788MHz, and 805- 806 MHz bands and fixed stations transmitting in the 787- 788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

27.50(d)(2) – The power of each fixed or base station transmitting in the 1995 – 2000 MHz, the 2110 – 2155 MHz 2155 – 2180 MHz band, or 2180 – 2200 MHz band and situated in any geographic location other than that described in paragraph (d) (1) of this section is limited to:

- (i) An equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less.
- (ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.

Test Procedures: *RF power output measurement* was made at the RF output terminal using a spectrum analyzer for downlink.

Test Results: Equipment complies with 47CFR 2.1046 and 27.50(h). The following page show measurements of RF Power output which is recorded below:

Test Engineer(s): Deepak Giri

Test Date(s): 10/30/16, 12/13/16, 12/14/16, 12/15/16, and 12/16/16



Band 4 Frequency Range 1710-1755 MHz Up link and 2110-2155 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max. RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
4	2112.5	5	QPSK	19.69	19.31	25.23	25.38	5.54	6.07	22.6	13.2	62.1	35.8	-26.3	Pass
4	2112.5	5	16QAM	19.67	19.64	25.48	25.27	5.81	5.63	22.7	13.2	62.1	35.9	-26.2	Pass
4	2112.5	5	64QAM	19.79	19.95	25.99	25.89	6.2	5.94	22.9	13.2	62.1	36.1	-26	Pass
4	2132.5	5	QPSK	20.04	20.33	26.42	25.75	6.38	5.42	23.2	13.2	62.1	36.4	-25.7	Pass
4	2132.5	5	16QAM	20.13	19.72	25.92	25.95	5.79	6.23	23	13.2	62.1	36.2	-25.9	Pass
4	2132.5	5	64QAM	19.66	19.8	25.81	26.57	6.15	6.77	22.8	13.2	62.1	36	-26.1	Pass
4	2152.5	5	QPSK	19.9	20.62	26.21	26.64	6.31	6.02	23.3	13.2	62.1	36.5	-25.6	Pass
4	2152.5	5	16QAM	20	19.89	25.53	26.07	5.53	6.18	23	13.2	62.1	36.2	-25.9	Pass
4	2152.5	5	64QAM	19.67	20.39	26.53	25.38	6.86	4.99	23.1	13.2	62.1	36.3	-25.8	Pass
4	2115	10	QPSK	19.68	20.08	26.43	26.35	6.75	6.27	22.9	13.2	62.1	36.1	-26	Pass
4	2115	10	16QAM	20.06	20.21	26.25	26.22	6.19	6.01	23.2	13.2	62.1	36.4	-25.7	Pass
4	2115	10	64QAM	20.01	20.58	25.91	25.71	5.9	5.13	23.4	13.2	62.1	36.6	-25.5	Pass
4	2132.5	10	QPSK	19.65	20.34	25.67	26.03	6.02	5.69	23.1	13.2	62.1	36.3	-25.8	Pass
4	2132.5	10	16QAM	19.74	20.62	26.39	25.83	6.65	5.21	23.3	13.2	62.1	36.5	-25.6	Pass
4	2132.5	10	64QAM	20.62	20.38	26.48	26.13	5.86	5.75	23.6	13.2	62.1	36.8	-25.3	Pass
4	2150	10	QPSK	20.57	20.27	25.63	26.85	5.06	6.58	23.5	13.2	62.1	36.7	-25.4	Pass
4	2150	10	16QAM	20.6	20.86	27.21	26.49	6.61	5.63	23.8	13.2	62.1	37	-25.1	Pass
4	2150	10	64QAM	20.57	20.5	25.71	27.03	5.14	6.53	23.6	13.2	62.1	36.8	-25.3	Pass

Table 7. RF Output Power, Test Results, Band 4, 5 and 10 MHz



Band 4 Frequency Range 1710-1755 MHz Up link and 2110-2155 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
4	2117.5	15	QPSK	21.06	21.52	24.57	24.71	3.51	3.19	24.4	13.2	62.1	37.6	-24.5	Pass
4	2117.5	15	16QAM	21.71	21.37	24.97	24.81	3.26	3.44	24.6	13.2	62.1	37.8	-24.3	Pass
4	2117.5	15	64QAM	21.44	21.34	24.55	25.12	3.11	3.78	24.5	13.2	62.1	37.7	-24.4	Pass
4	2132.5	15	QPSK	21.55	20.16	24.71	24.36	3.16	4.2	24	13.2	62.1	37.2	-24.9	Pass
4	2132.5	15	16QAM	20.85	20.76	24.67	24.12	3.82	3.36	23.9	13.2	62.1	37.1	-25	Pass
4	2132.5	15	64QAM	21.21	20.51	24.2	24.47	2.99	3.96	23.9	13.2	62.1	37.1	-25	Pass
4	2147.5	15	QPSK	21.31	21.81	24.18	24.82	2.87	3.01	24.6	13.2	62.1	37.8	-24.3	Pass
4	2147.5	15	16QAM	20.99	20.92	24.5	24.37	3.51	3.45	24	13.2	62.1	37.2	-24.9	Pass
4	2147.5	15	64QAM	20.95	20.83	24.59	24.68	3.64	3.85	24	13.2	62.1	37.2	-24.9	Pass
4	2120	20	QPSK	21.51	21.32	24.73	24.33	3.22	3.01	24.5	13.2	62.1	37.7	-24.4	Pass
4	2120	20	16QAM	21.33	21.29	24.27	24.53	2.94	3.24	24.4	13.2	62.1	37.6	-24.5	Pass
4	2120	20	64QAM	20.94	21.04	24.42	24.59	3.48	3.55	24.1	13.2	62.1	37.3	-24.8	Pass
4	2132.5	20	QPSK	20.97	21.43	24.91	24.72	3.94	3.29	24.3	13.2	62.1	37.5	-24.6	Pass
4	2132.5	20	16QAM	21.32	21.36	24.53	24.91	3.21	3.55	24.4	13.2	62.1	37.6	-24.5	Pass
4	2132.5	20	64QAM	21.05	20.85	24.6	24.48	3.55	3.63	24	13.2	62.1	37.2	-24.9	Pass
4	2145	20	QPSK	21.09	20.9	24.68	24.78	3.59	3.88	24.1	13.2	62.1	37.3	-24.8	Pass
4	2145	20	16QAM	21.32	21.37	24.56	24.58	3.24	3.21	24.4	13.2	62.1	37.6	-24.5	Pass
4	2145	20	64QAM	21.64	21.24	24.25	24.6	2.61	3.36	24.5	13.2	62.1	37.7	-24.4	Pass

Table 8. RF Output Power, Test Results, Band 4, 15 and 20 MHz



Band 10 Frequency Range 1710-1770 MHz Up link and 2110-2170 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max. RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
10	2112.5	5	QPSK	19.81	19.79	25.64	25.93	5.83	6.14	22.9	13.2	62.1	36.1	-26	Pass
10	2112.5	5	16QAM	19.4	19.35	25.32	25.87	5.92	6.52	22.4	13.2	62.1	35.6	-26.5	Pass
10	2112.5	5	64QAM	19.68	19.41	25.48	25.35	5.8	5.94	22.6	13.2	62.1	35.8	-26.3	Pass
10	2140	5	QPSK	19.7	19.92	25.68	25.1	5.98	5.18	22.9	13.2	62.1	36.1	-26	Pass
10	2140	5	16QAM	19.82	19.38	25.38	25.75	5.56	6.37	22.7	13.2	62.1	35.9	-26.2	Pass
10	2140	5	64QAM	19.77	19.16	25.56	26.4	5.79	7.24	22.5	13.2	62.1	35.7	-26.4	Pass
10	2167.5	5	QPSK	20.4	19.69	25.46	25.53	5.06	5.84	23.1	13.2	62.1	36.3	-25.8	Pass
10	2167.5	5	16QAM	19.84	19.96	25.12	26.27	5.28	6.31	23	13.2	62.1	36.2	-25.9	Pass
10	2167.5	5	64QAM	19.53	19.78	25.31	25.88	5.78	6.1	22.7	13.2	62.1	35.9	-26.2	Pass
10	2115	10	QPSK	20.01	20.25	26.41	25.68	6.4	5.43	23.2	13.2	62.1	36.4	-25.7	Pass
10	2115	10	16QAM	19.88	19.75	26.02	26.21	6.14	6.46	22.9	13.2	62.1	36.1	-26	Pass
10	2115	10	64QAM	19.73	20.55	26.13	25.8	6.4	5.25	23.2	13.2	62.1	36.4	-25.7	Pass
10	2140	10	QPSK	20.58	19.22	25.42	26.21	4.84	6.99	23	13.2	62.1	36.2	-25.9	Pass
10	2140	10	16QAM	20.04	19.66	25.36	25.31	5.32	5.65	22.9	13.2	62.1	36.1	-26	Pass
10	2140	10	64QAM	20.06	19.91	25.38	25.57	5.32	5.66	23	13.2	62.1	36.2	-25.9	Pass
10	2165	10	QPSK	19.97	20.53	25.71	25.76	5.74	5.23	23.3	13.2	62.1	36.5	-25.6	Pass
10	2165	10	16QAM	20.58	20.58	25.51	25.63	4.93	5.05	23.6	13.2	62.1	36.8	-25.3	Pass
10	2165	10	64QAM	19.82	20.25	25.95	26.01	6.13	5.76	23.1	13.2	62.1	36.3	-25.8	Pass

Table 9. RF Output Power, Test Results, Band 10, 5 and 10 MHz



Band 10 Frequency Range 1710-1770 MHz Up link and 2110-2170 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
10	2117.5	15	QPSK	21.28	20.96	24.86	25.07	3.58	4.11	24.2	13.2	62.1	37.4	-24.7	Pass
10	2117.5	15	16QAM	21.29	21.43	24.72	24.81	3.43	3.38	24.4	13.2	62.1	37.6	-24.5	Pass
10	2117.5	15	64QAM	21.43	21.86	24.35	24.84	2.92	2.98	24.7	13.2	62.1	37.9	-24.2	Pass
10	2140	15	QPSK	21.5	21.18	24.85	24.92	3.35	3.74	24.4	13.2	62.1	37.6	-24.5	Pass
10	2140	15	16QAM	21.29	21.66	24.66	24.84	3.37	3.18	24.5	13.2	62.1	37.7	-24.4	Pass
10	2140	15	64QAM	21.53	21.14	24.61	25.24	3.08	4.1	24.4	13.2	62.1	37.6	-24.5	Pass
10	2162.5	15	QPSK	21.21	21.01	24.53	25.22	3.32	4.21	24.2	13.2	62.1	37.4	-24.7	Pass
10	2162.5	15	16QAM	21.29	21.42	24.48	24.24	3.19	2.82	24.4	13.2	62.1	37.6	-24.5	Pass
10	2162.5	15	64QAM	21.11	21.48	24.68	24.48	3.57	3	24.4	13.2	62.1	37.6	-24.5	Pass
10	2120	20	QPSK	21.53	21.16	24.98	24.73	3.45	3.57	24.4	13.2	62.1	37.6	-24.5	Pass
10	2120	20	16QAM	21.54	20.87	24.7	24.43	3.16	3.56	24.3	13.2	62.1	37.5	-24.6	Pass
10	2120	20	64QAM	21.26	21.17	24.68	24.49	3.42	3.32	24.3	13.2	62.1	37.5	-24.6	Pass
10	2140	20	QPSK	21.48	20.366	24.57	23.4	3.09	3.034	24	13.2	62.1	37.2	-24.9	Pass
10	2140	20	16QAM	20.25	20.21	24.08	23.59	3.83	3.38	23.3	13.2	62.1	36.5	-25.6	Pass
10	2140	20	64QAM	20.45	20.38	23.77	23.91	3.32	3.53	23.5	13.2	62.1	36.7	-25.4	Pass
10	2160	20	QPSK	21.2	20.48	24.88	24.33	3.68	3.85	23.9	13.2	62.1	37.1	-25	Pass
10	2160	20	16QAM	21.25	21.41	24.85	24.9	3.6	3.49	24.4	13.2	62.1	37.6	-24.5	Pass
10	2160	20	64QAM	21.38	21.33	24.99	24.91	3.61	3.58	24.4	13.2	62.1	37.6	-24.5	Pass

Table 10. RF Output Power, Test Results, Band 10, 15 and 20 MHz



Band 12 Frequency Range 698-716 MHz Up link and 728-746 MHz downlink															
Band	Center Freq.	BW	Modulation	Max RMS Power Port 1 dBm	Max RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
12	731.5	5	QPSK	22	21.49	25	24.59	3	3.1	26.8	12	60	38.8	-21.2	Pass
12	731.5	5	16QAM	21.97	20.87	24.48	25.15	2.51	4.28	26.5	12	60	38.5	-21.5	Pass
12	731.5	5	64QAM	21.91	21.83	24	24.98	2.09	3.15	26.1	12	60	38.1	-21.9	Pass
12	737.5	5	QPSK	21.79	21.65	24.37	24.97	2.58	3.32	26.3	12	60	38.3	-21.7	Pass
12	737.5	5	16QAM	21.84	22.3	24.77	24.9	2.93	2.6	26.6	12	60	38.6	-21.4	Pass
12	737.5	5	64QAM	20.72	21.37	25.17	25.57	4.45	4.2	26.6	12	60	38.6	-21.4	Pass
12	743.5	5	QPSK	21.32	21.12	24.67	24.59	3.35	3.47	26.4	12	60	38.4	-21.6	Pass
12	743.5	5	16QAM	21.36	20.26	24.34	24.37	2.98	4.11	26.2	12	60	38.2	-21.8	Pass
12	743.5	5	64QAM	20.25	20.32	25.06	24.29	4.81	3.97	26.3	12	60	38.3	-21.7	Pass
12	734	10	QPSK	21.44	21.14	24.54	25.18	3.1	4.04	26.3	12	60	38.3	-21.7	Pass
12	734	10	16QAM	21.95	21.8	24.4	24.26	2.45	2.46	26.4	12	60	38.4	-21.6	Pass
12	734	10	64QAM	21.99	21.92	25.17	24.57	3.18	2.65	26.9	12	60	38.9	-21.1	Pass
12	737.5	10	QPSK	22.4	21.79	24.15	24.75	1.75	2.96	26.4	12	60	38.4	-21.6	Pass
12	737.5	10	16QAM	22	21.85	24.24	24.45	2.24	2.6	26.3	12	60	38.3	-21.7	Pass
12	737.5	10	64QAM	21	21.44	24.95	24.91	3.95	3.47	26.5	12	60	38.5	-21.5	Pass
12	741	10	QPSK	21.61	21.78	24.78	24.71	3.17	2.93	26.5	12	60	38.5	-21.5	Pass
12	741	10	16QAM	21.45	21.26	24.65	24.65	3.2	3.39	26.4	12	60	38.4	-21.6	Pass
12	741	10	64QAM	21.62	21.47	24.32	24.59	2.7	3.12	26.2	12	60	38.2	-21.8	Pass

Table 11. RF Output Power, Test Results, Band 12, 5 and 10 MHz

Band 12 Frequency Range 698-716 MHz Up link and 728-746 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
12	736.5	15	QPSK	20.92	21.75	25.06	24.75	4.14	3	24.4	12	60	36.4	-23.6	Pass
12	736.5	15	16QAM	21.85	21.49	25.37	25.55	3.52	4.06	24.7	12	60	36.7	-23.3	Pass
12	736.5	15	64QAM	21.55	21.28	25.02	24.63	3.47	3.35	24.5	12	60	36.5	-23.5	Pass
12	737.5	15	QPSK	21.3	21.83	25	24.59	3.7	2.76	24.6	12	60	36.6	-23.4	Pass
12	737.5	15	16QAM	21.26	21.04	25.12	25.24	3.86	4.2	24.2	12	60	36.2	-23.8	Pass
12	737.5	15	64QAM	21.34	20.59	25.33	24.63	3.99	4.04	24	12	60	36	-24	Pass
12	738.5	15	QPSK	22.24	21.01	24.75	24.75	2.51	3.74	24.7	12	60	36.7	-23.3	Pass
12	738.5	15	16QAM	22.19	21.09	25.63	24.46	3.44	3.37	24.7	12	60	36.7	-23.3	Pass
12	738.5	15	64QAM	21.49	20.49	25.15	24.79	3.66	4.3	24.1	12	60	36.1	-23.9	Pass

Table 12. RF Output Power, Test Results, Band 12, 15 MHz



Band 13 Frequency Range 777-787 MHz Up link and 746-756 MHz downlink															
Band	Center Freq.	BW	Modulation	Max. RMS Power Port 1 dBm	Max. RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
13	748.5	5	QPSK	22.16	22.02	24	23.91	1.84	1.89	25.2	12	60	37.2	-22.8	Pass
13	748.5	5	16QAM	21	21.82	25.66	23.85	4.66	2.03	24.5	12	60	36.5	-23.5	Pass
13	748.5	5	64QAM	21.03	21.21	24.32	24.95	3.29	3.74	24.2	12	60	36.2	-23.8	Pass
13	751	5	QPSK	22.09	21.51	24.08	24.51	1.99	3	24.9	12	60	36.9	-23.1	Pass
13	751	5	16QAM	22.53	21.94	25.44	25	2.91	3.06	25.3	12	60	37.3	-22.7	Pass
13	751	5	64QAM	21.66	21.31	25.9	24.54	4.24	3.23	24.5	12	60	36.5	-23.5	Pass
13	753.5	5	QPSK	21.1	21.39	24.57	23.79	3.47	2.4	24.3	12	60	36.3	-23.7	Pass
13	753.5	5	16QAM	21.61	21.24	24.64	24.62	3.03	3.38	24.5	12	60	36.5	-23.5	Pass
13	753.5	5	64QAM	21.13	21.75	24.76	24.32	3.63	2.57	24.5	12	60	36.5	-23.5	Pass
13	751	10	QPSK	21.01	21.34	24.28	24.5	3.27	3.16	24.2	12	60	36.2	-23.8	Pass
13	751	10	16QAM	21.66	21.38	24.49	24.81	2.83	3.43	24.6	12	60	36.6	-23.4	Pass
13	751	10	64QAM	21.11	21.18	24.32	24.73	3.21	3.55	24.2	12	60	36.2	-23.8	Pass

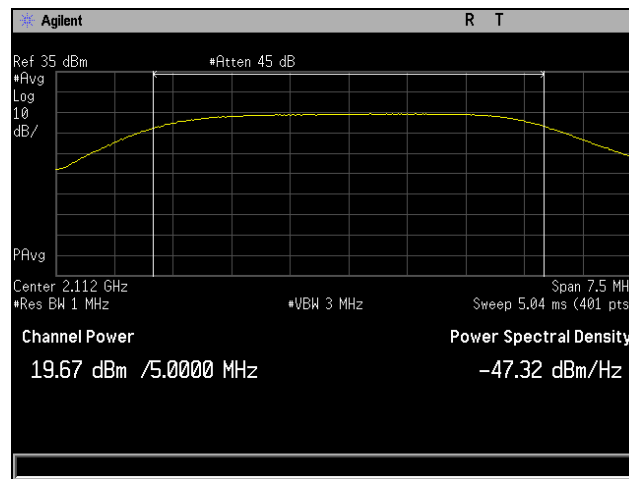
Table 13. RF Output Power, Test Results, Band 13



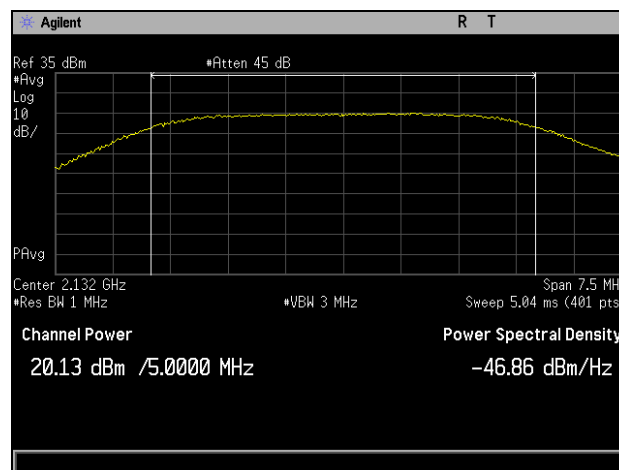
Band 17 Frequency Range 704-716 MHz Up link and 734-746 MHz downlink															
Band	Center Freq.	BW	Modulation	Max RMS Power Port 1 dBm	Max RMS Power Port 2 dBm	Peak Power Port 1 dBm	Peak Power Port 2 dBm	PAPR Port 1 dB (limit: 13dB)	PAPR Port 2 dB (limit: 13dB)	Total Max RMS Output Power	Directional Gain dBi	Limit dBm	EIRP dBm	Margin dB	Result
17	736.5	5	QPSK	21.59	22.32	25.74	24.78	4.15	2.46	25	12	60	37	-23	Pass
17	736.5	5	16QAM	21.12	21.62	25.11	24.91	3.99	3.29	24.4	12	60	36.4	-23.6	Pass
17	736.5	5	64QAM	22.27	21.8	24.97	24.66	2.7	2.86	25.1	12	60	37.1	-22.9	Pass
17	740	5	QPSK	22.21	21.78	25.82	25.57	3.61	3.79	25.1	12	60	37.1	-22.9	Pass
17	740	5	16QAM	22.79	23.06	25.16	25.4	2.37	2.34	26	12	60	38	-22	Pass
17	740	5	64QAM	22.45	22.23	25.6	25.48	3.15	3.25	25.4	12	60	37.4	-22.6	Pass
17	743.5	5	QPSK	21.52	21.2	25.04	24.96	3.52	3.76	24.4	12	60	36.4	-23.6	Pass
17	743.5	5	16QAM	21.45	20.25	24.63	24.51	3.18	4.26	24	12	60	36	-24	Pass
17	743.5	5	64QAM	20.93	21.3	25.51	24.79	4.58	3.49	24.2	12	60	36.2	-23.8	Pass
17	739	10	QPSK	21.71	21.61	24.21	24.89	2.5	3.28	24.7	12	60	36.7	-23.3	Pass
17	739	10	16QAM	21.72	21.67	24.6	24.65	2.88	2.98	24.8	12	60	36.8	-23.2	Pass
17	739	10	64QAM	21.66	21.42	24.67	24.94	3.01	3.52	24.6	12	60	36.6	-23.4	Pass
17	740	10	QPSK	21.18	21.46	24.43	24.7	3.25	3.24	24.4	12	60	36.4	-23.6	Pass
17	740	10	16QAM	21.42	21.57	24.5	24.46	3.08	2.89	24.6	12	60	36.6	-23.4	Pass
17	740	10	64QAM	21.66	21.72	24.41	24.5	2.75	2.78	24.8	12	60	36.8	-23.2	Pass
17	741	10	QPSK	21.34	21.44	24.77	24.56	3.43	3.12	24.5	12	60	36.5	-23.5	Pass
17	741	10	16QAM	21.3	21.65	24.31	24.27	3.01	2.62	24.5	12	60	36.5	-23.5	Pass
17	741	10	64QAM	21.75	21.54	24.47	24.54	2.72	3	24.7	12	60	36.7	-23.3	Pass

Table 14. RF Output Power, Test Results, Band 17

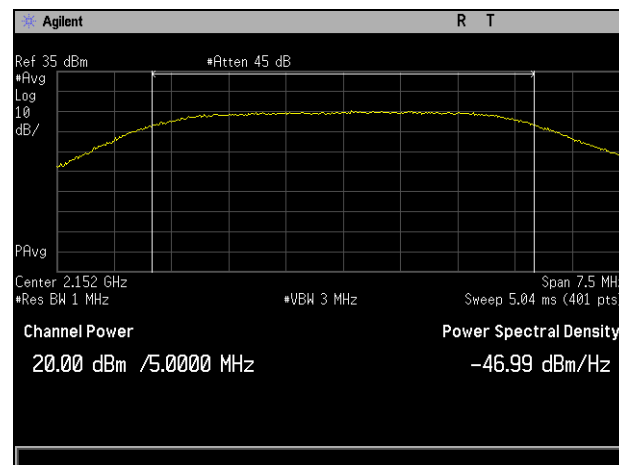
RF Output Power, Band 4, Port 1, 5 MHz



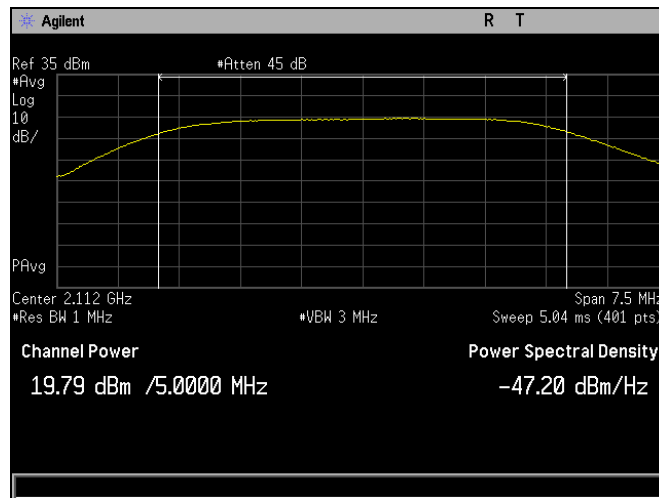
Plot 1. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Average, 5 MHz



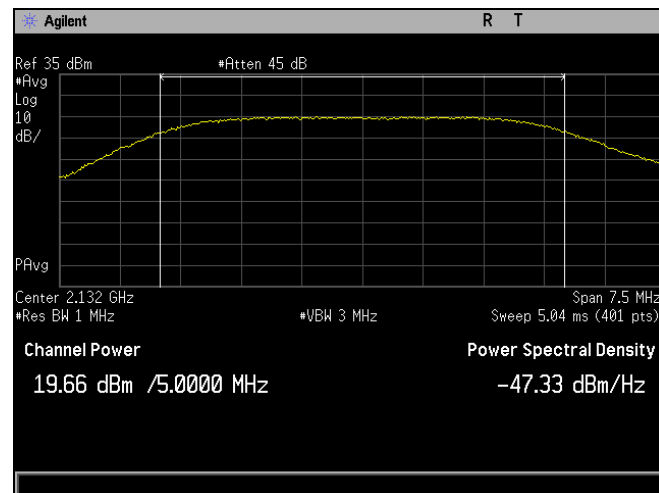
Plot 2. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Average, 5 MHz



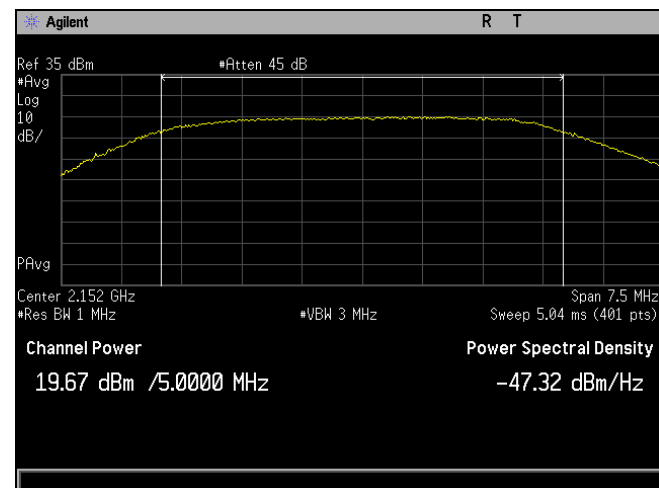
Plot 3. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Average, 5 MHz



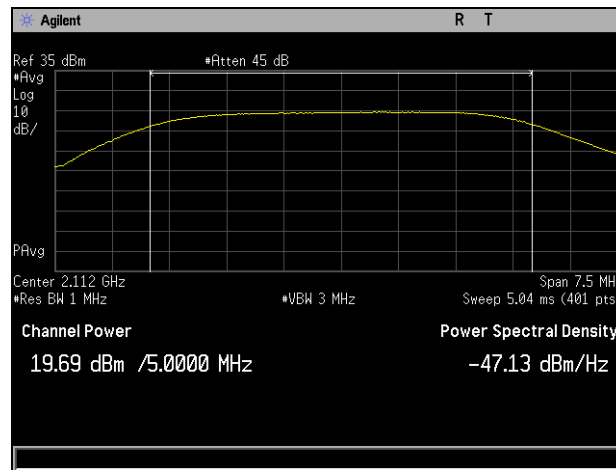
Plot 4. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Average, 5 MHz



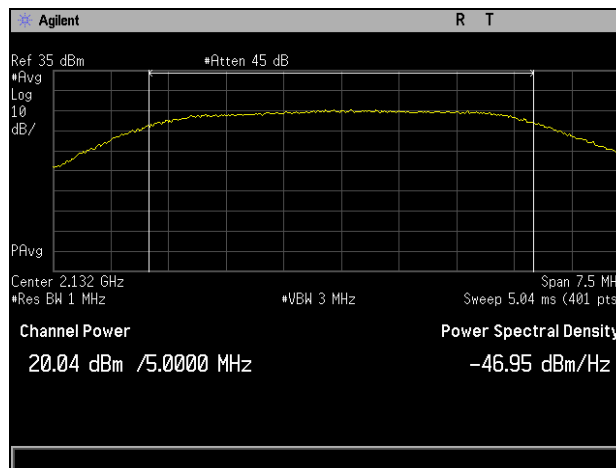
Plot 5. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Average, 5 MHz



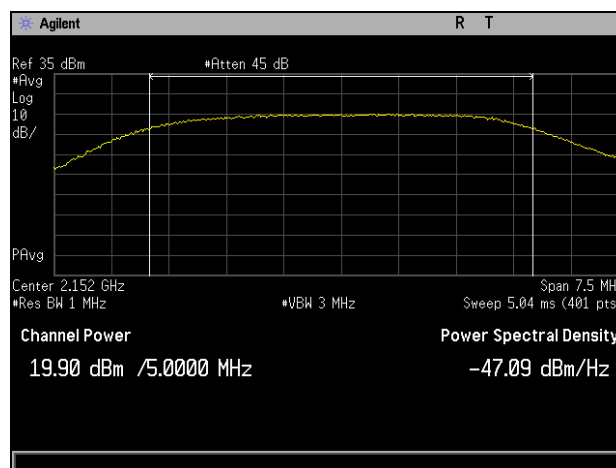
Plot 6. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Average, 5 MHz



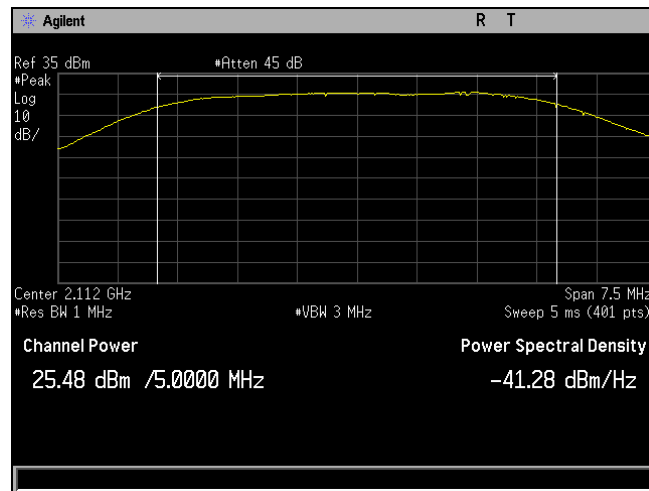
Plot 7. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Average, 5 MHz



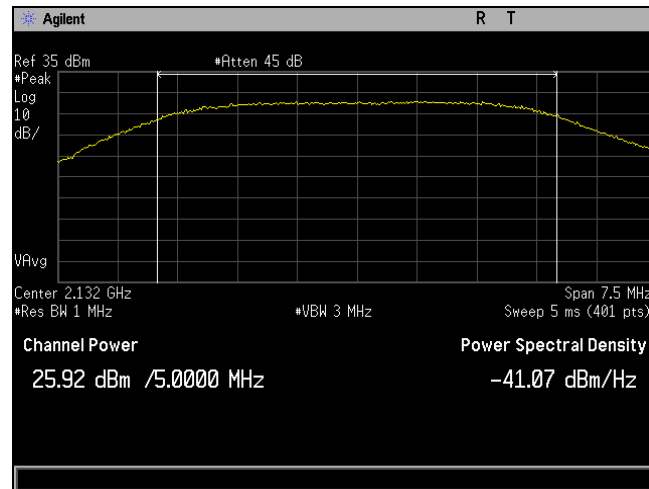
Plot 8. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Average, 5 MHz



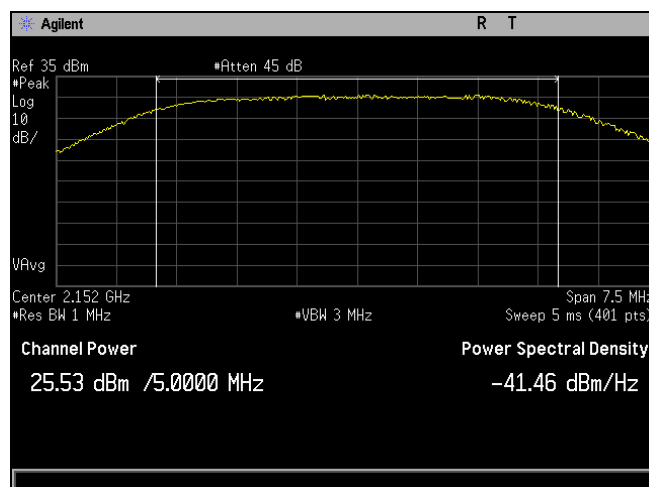
Plot 9. RF Output Power, QPSK, High Channel, Band 4, Port 1, Average, 5 MHz



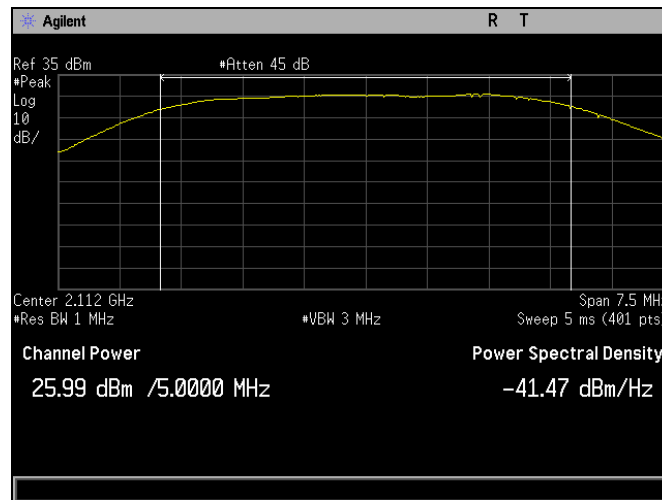
Plot 10. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Peak, 5 MHz



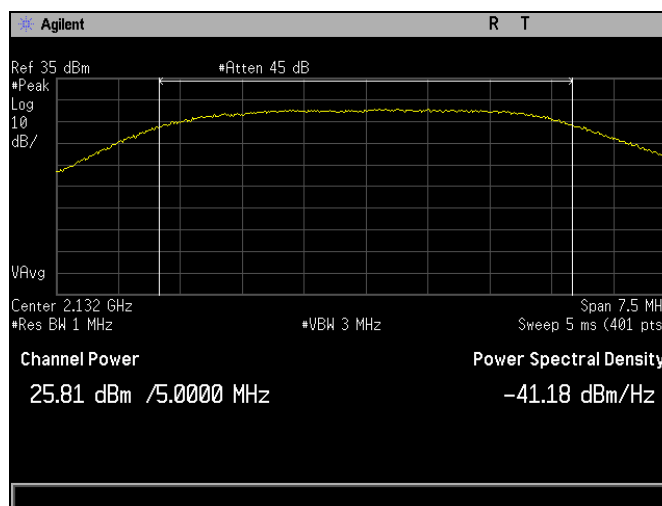
Plot 11. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Peak, 5 MHz



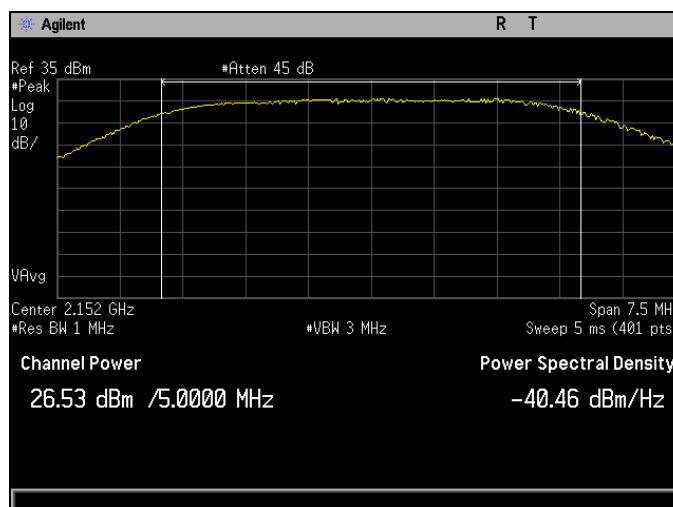
Plot 12. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Peak, 5 MHz



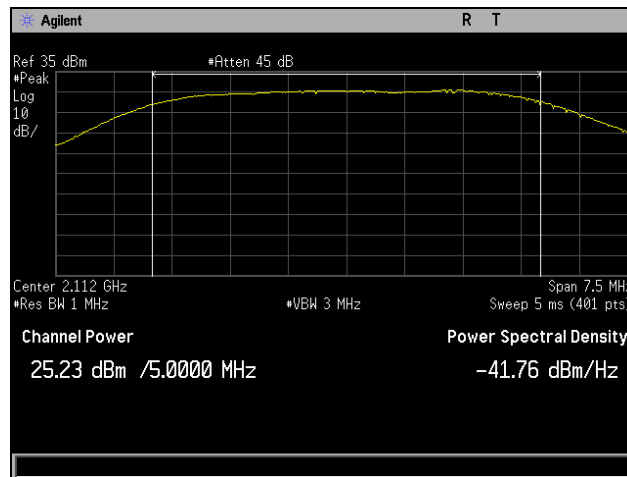
Plot 13. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Peak, 5 MHz



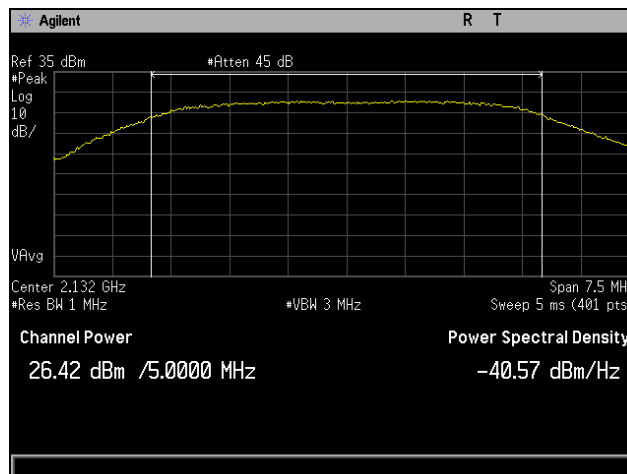
Plot 14. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Peak, 5 MHz



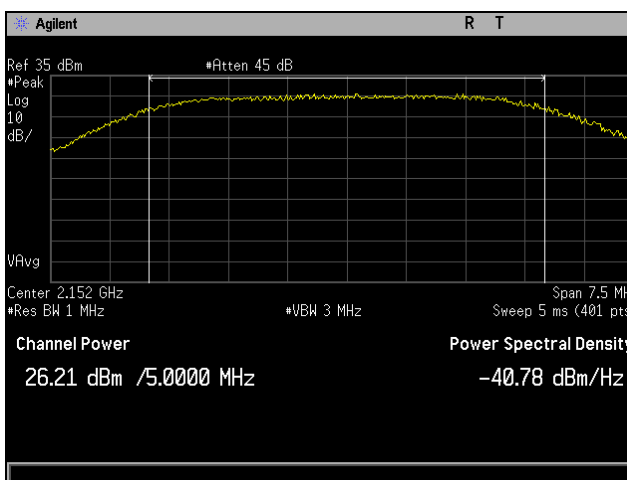
Plot 15. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Peak, 5 MHz



Plot 16. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Peak, 5 MHz

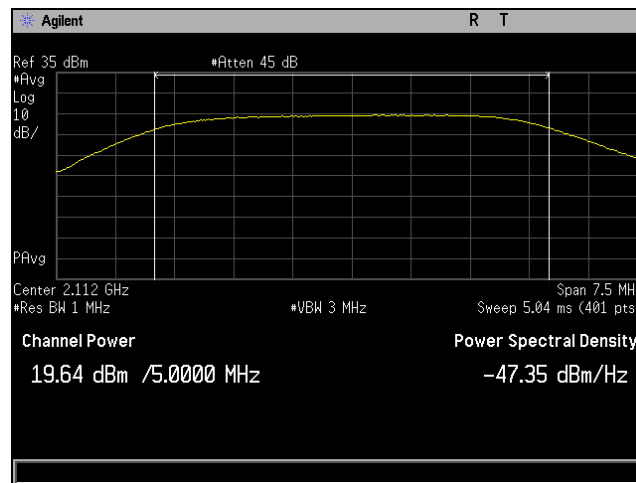


Plot 17. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Peak, 5 MHz

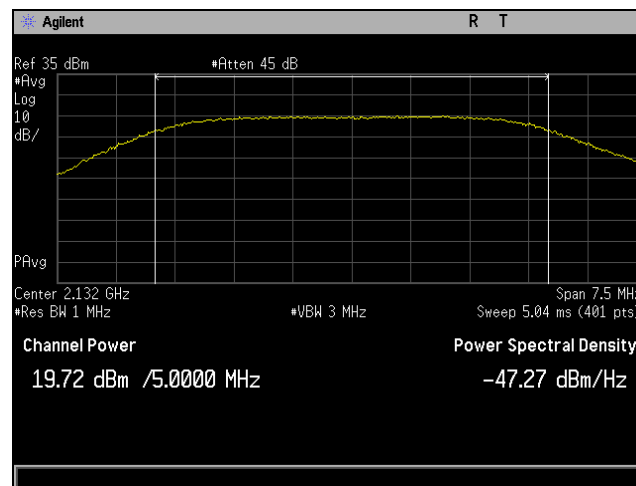


Plot 18. RF Output Power, QPSK, High Channel, Band 4, Port 1, Peak, 5 MHz

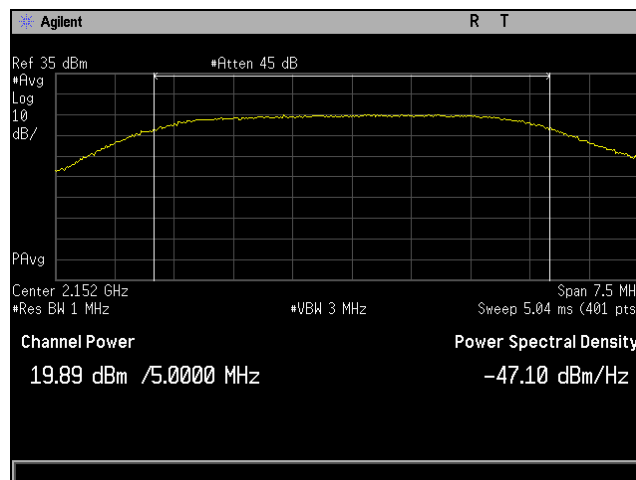
RF Output Power, Band 4, Port 2, 5 MHz



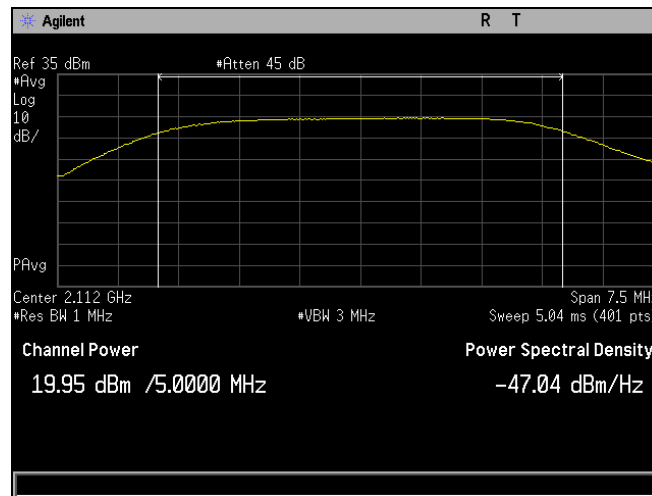
Plot 19. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Average, 5 MHz



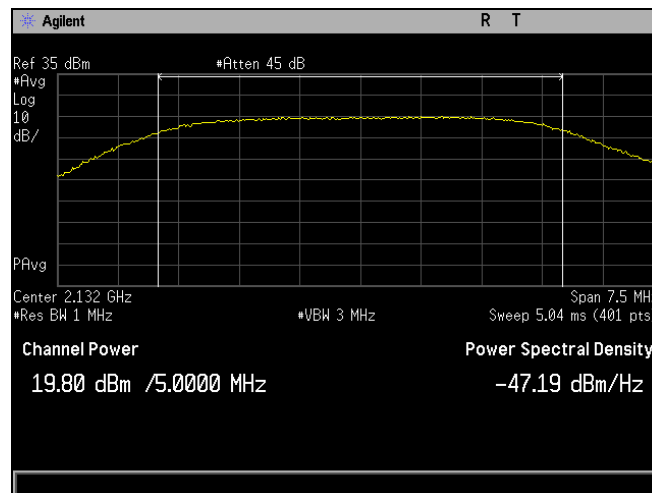
Plot 20. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Average, 5 MHz



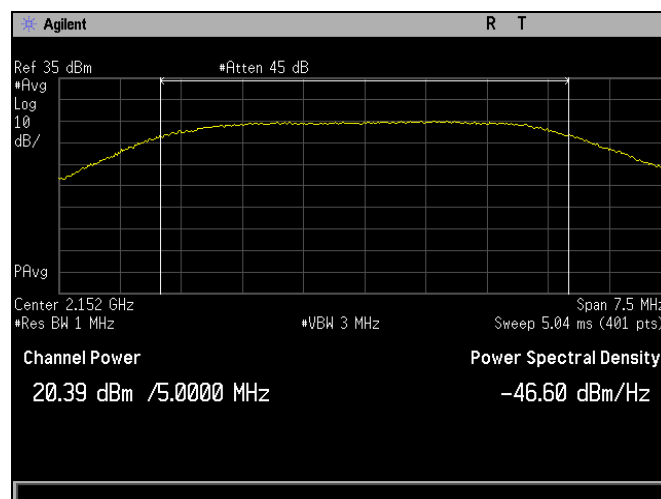
Plot 21. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Average, 5 MHz



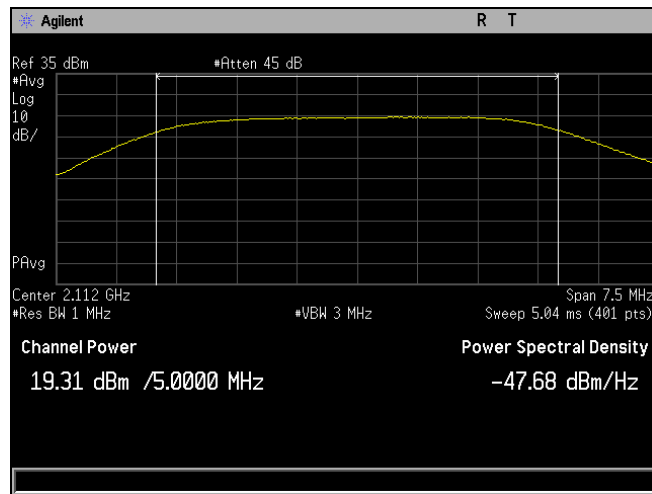
Plot 22. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Average, 5 MHz



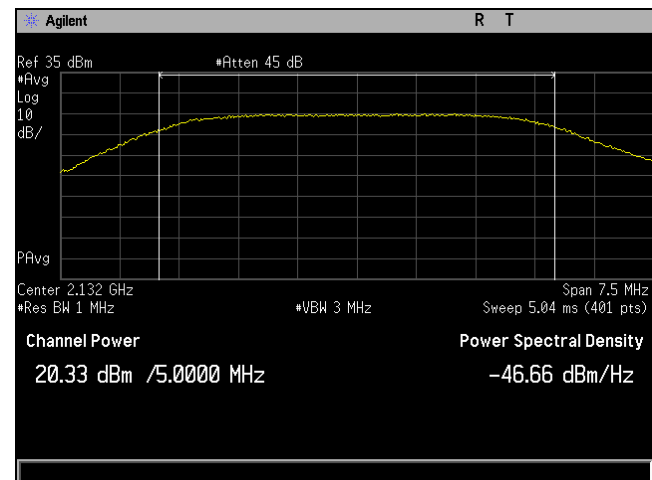
Plot 23. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Average, 5 MHz



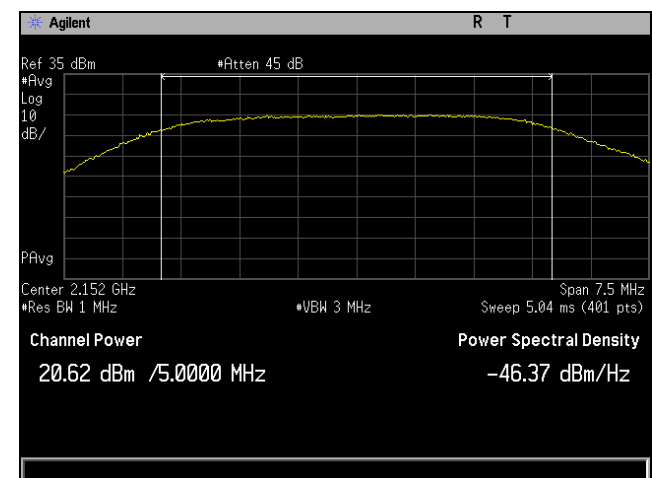
Plot 24. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Average, 5 MHz



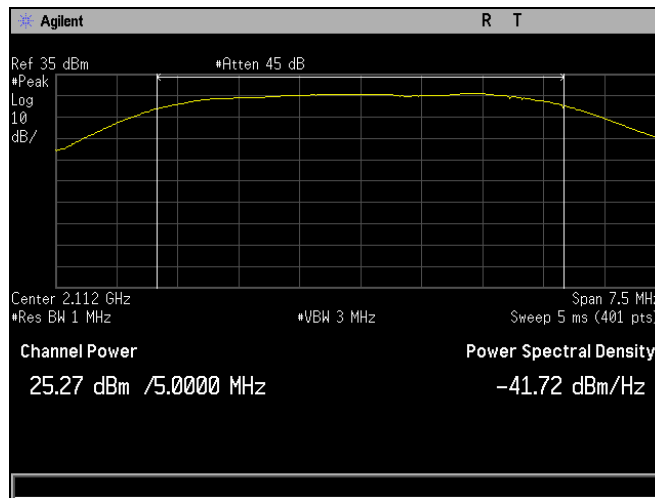
Plot 25. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Average, 5 MHz



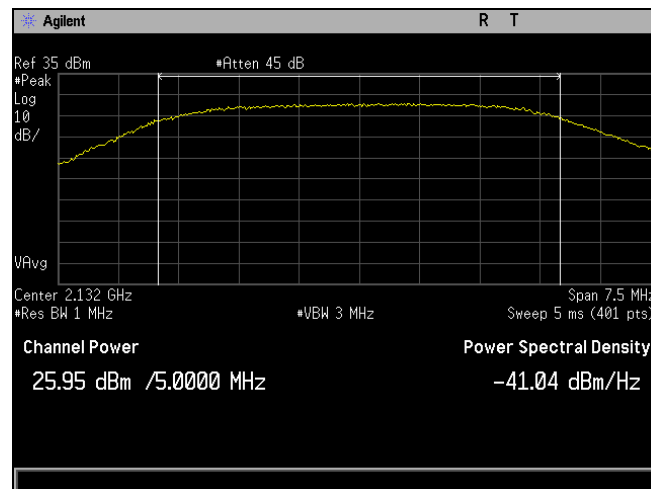
Plot 26. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Average, 5 MHz



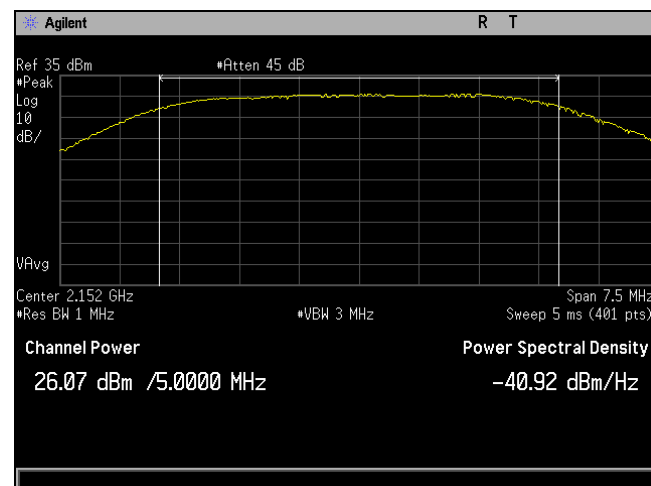
Plot 27. RF Output Power, QPSK, High Channel, Band 4, Port 2, Average, 5 MHz



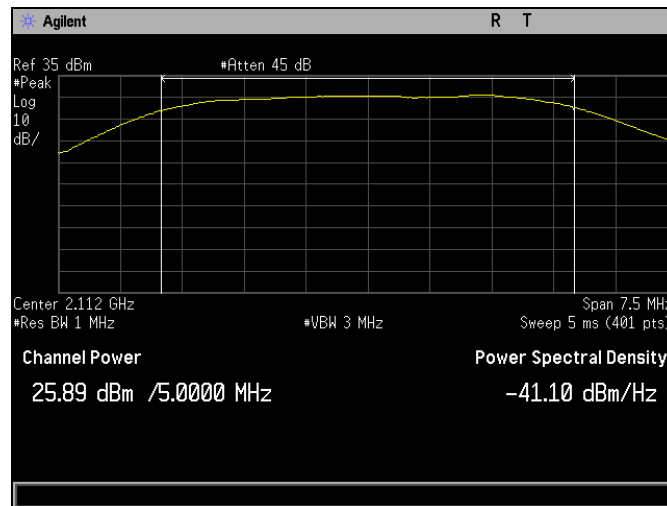
Plot 28. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Peak, 5 MHz



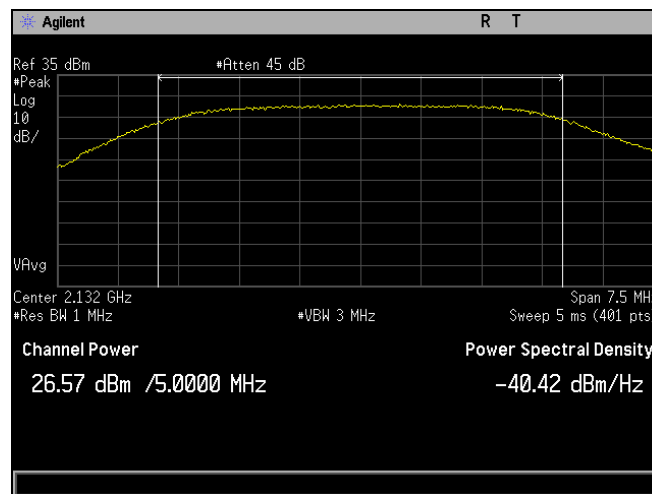
Plot 29. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Peak, 5 MHz



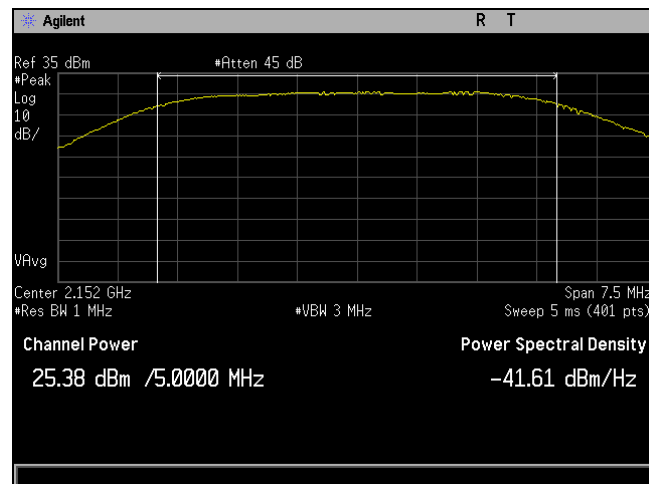
Plot 30. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Peak, 5 MHz



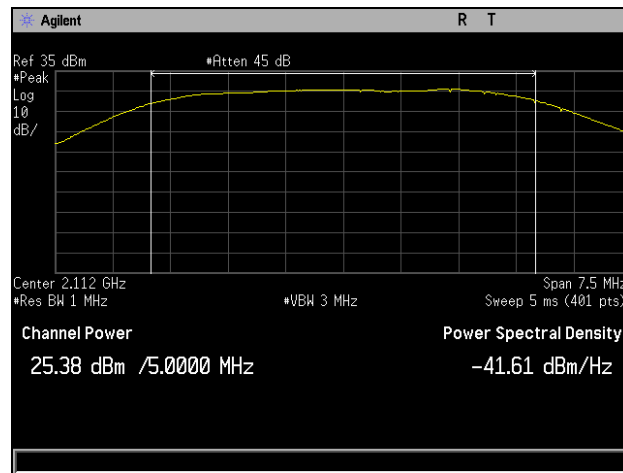
Plot 31. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Peak, 5 MHz



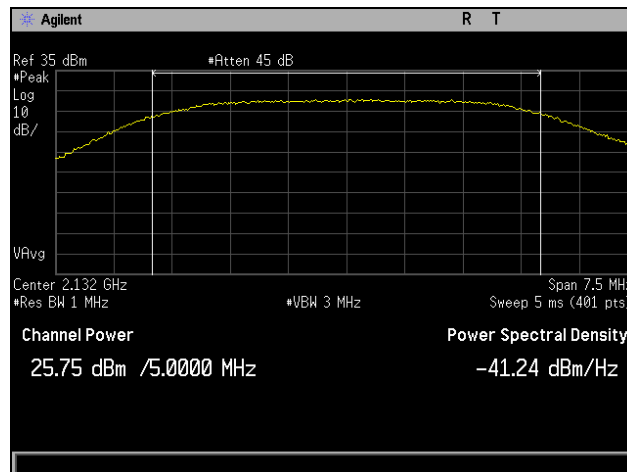
Plot 32. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Peak, 5 MHz



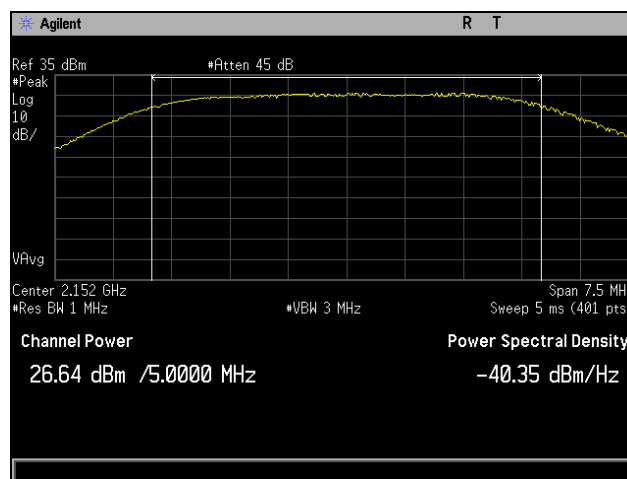
Plot 33. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Peak, 5 MHz



Plot 34. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Peak, 5 MHz

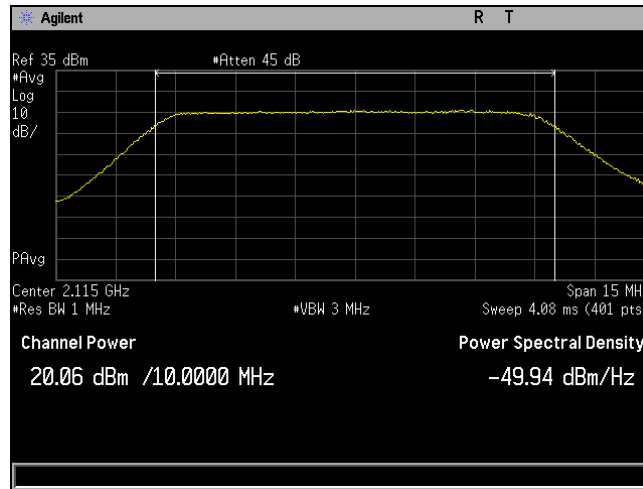


Plot 35. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Peak, 5 MHz

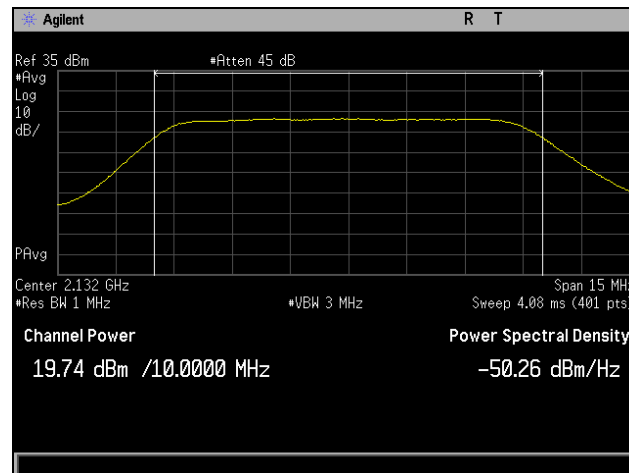


Plot 36. RF Output Power, QPSK, High Channel, Band 4, Port 2, Peak, 5 MHz

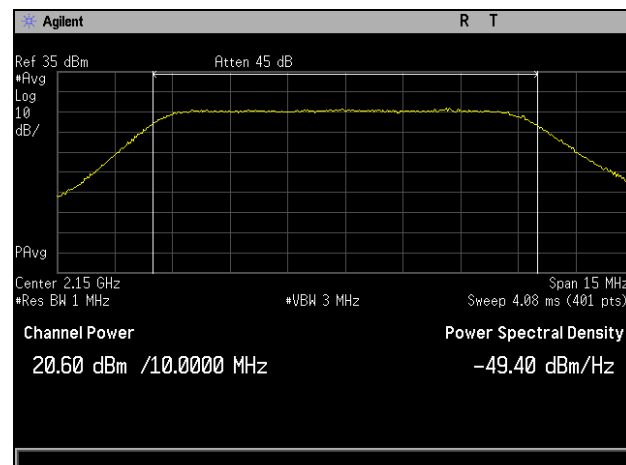
RF Output Power, Band 4, Port 1, 10 MHz



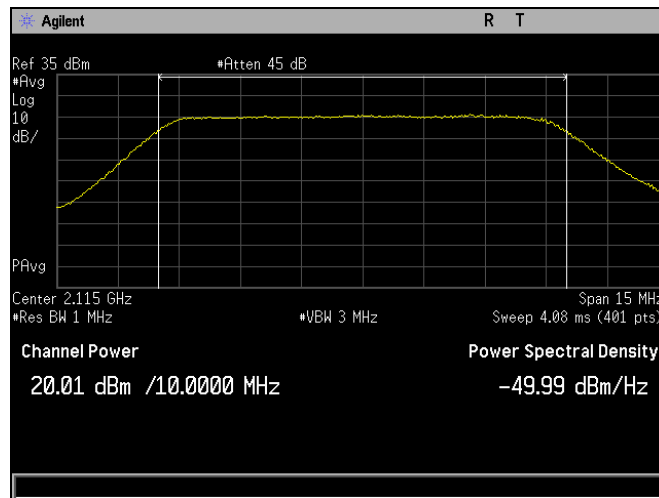
Plot 37. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Average, 10 MHz



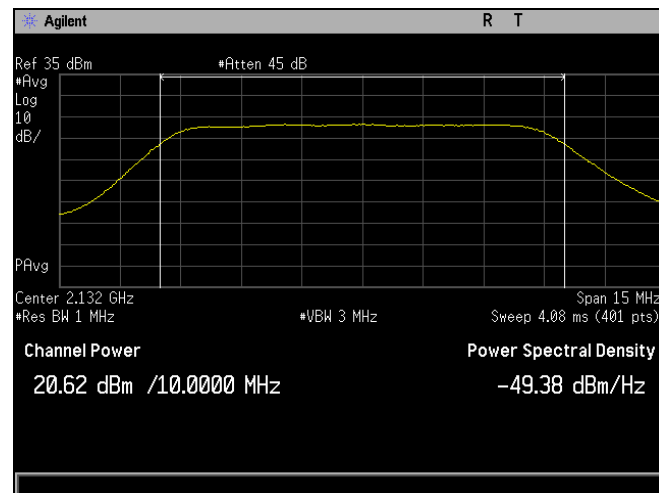
Plot 38. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Average, 10 MHz



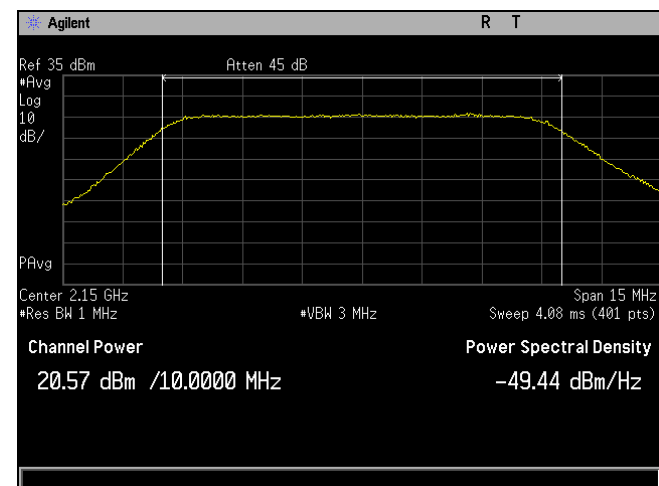
Plot 39. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Average, 10 MHz



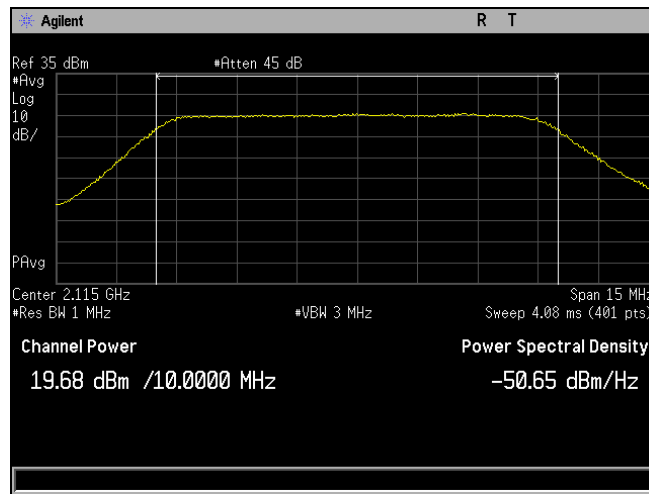
Plot 40. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Average, 10 MHz



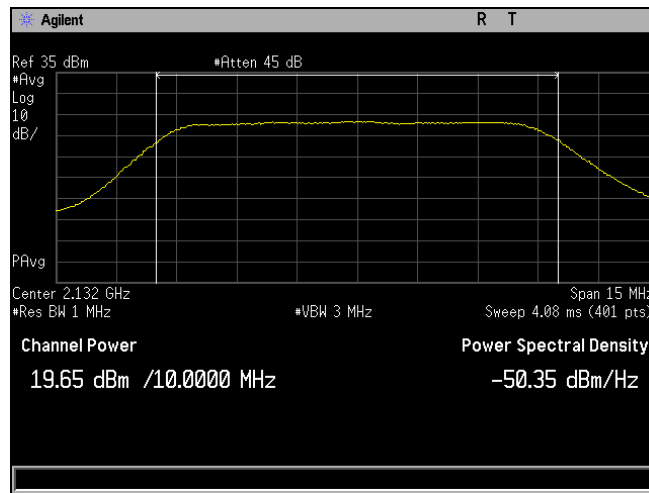
Plot 41. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Average, 10 MHz



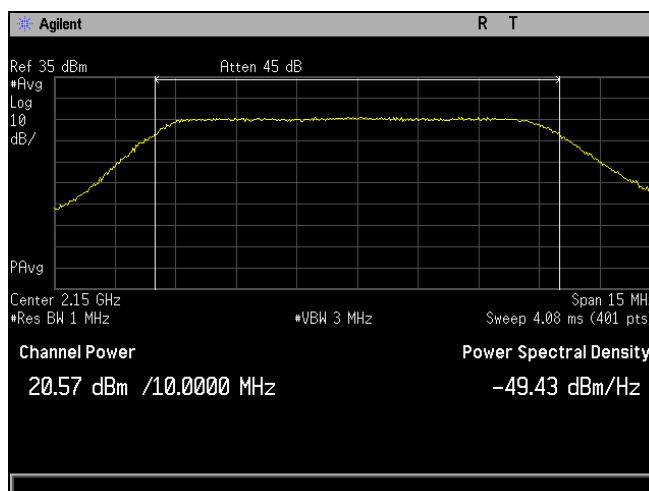
Plot 42. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Average, 10 MHz



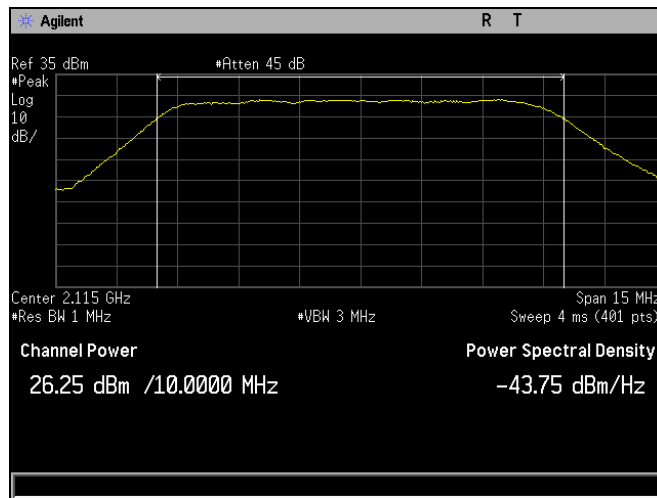
Plot 43. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Average, 10 MHz



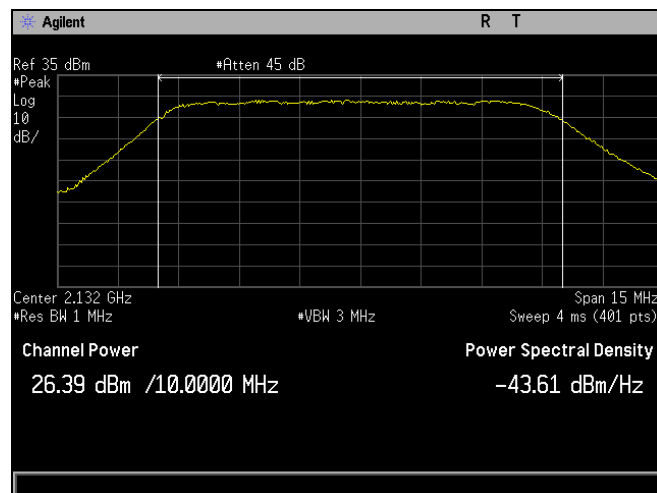
Plot 44. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Average, 10 MHz



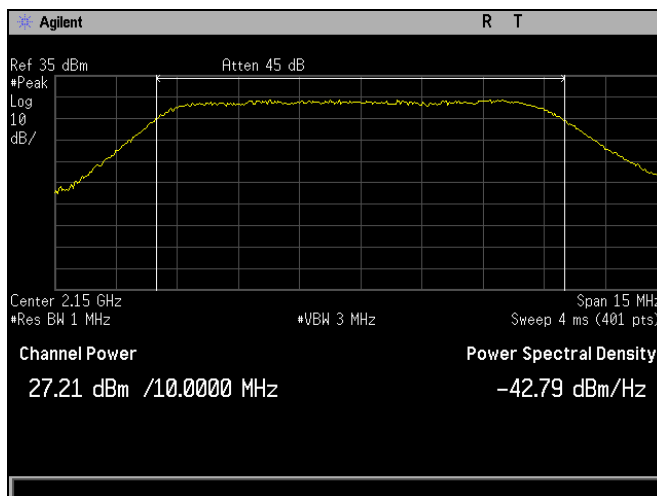
Plot 45. RF Output Power, QPSK, High Channel, Band 4, Port 1, Average, 10 MHz



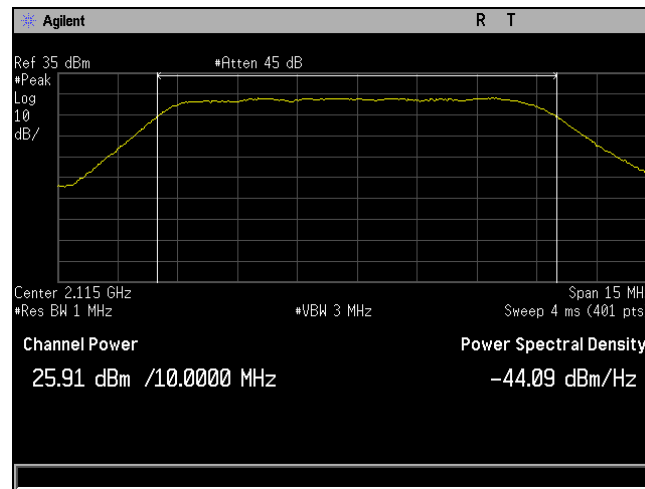
Plot 46. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Peak, 10 MHz



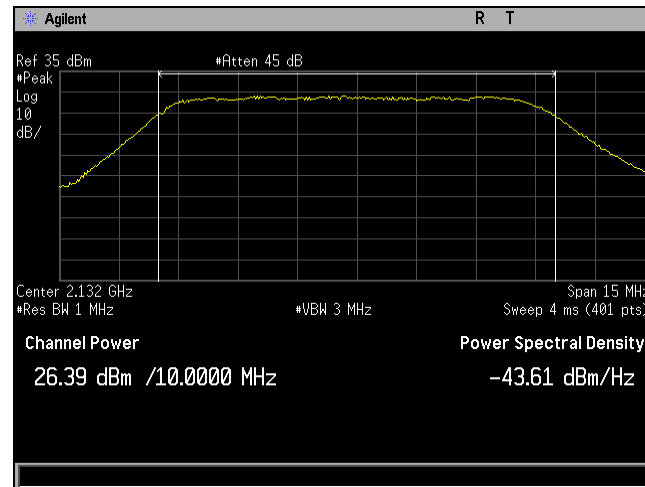
Plot 47. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Peak, 10 MHz



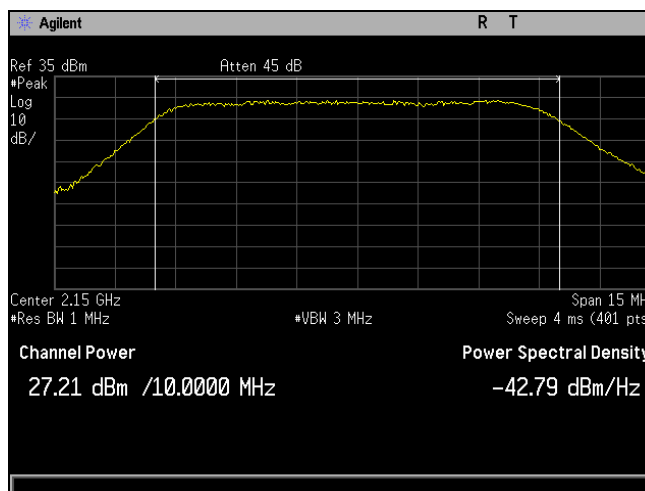
Plot 48. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Peak, 10 MHz



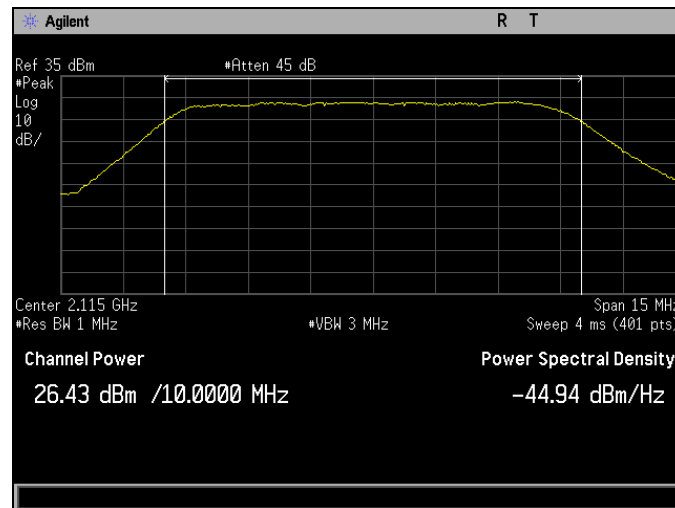
Plot 49. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Peak, 10 MHz



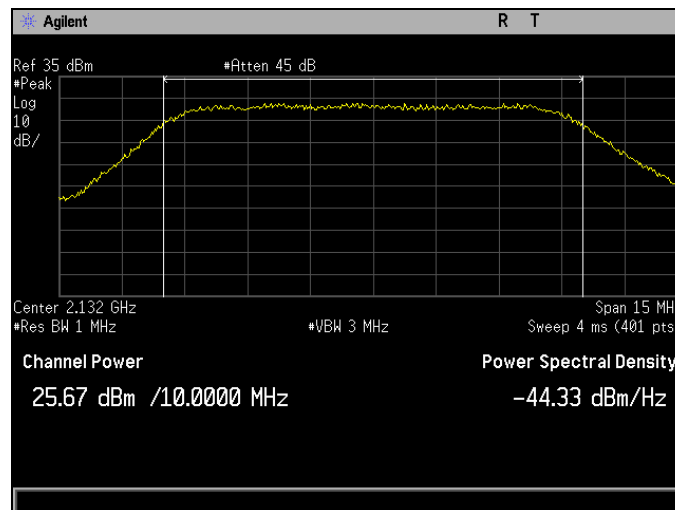
Plot 50. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Peak, 10 MHz



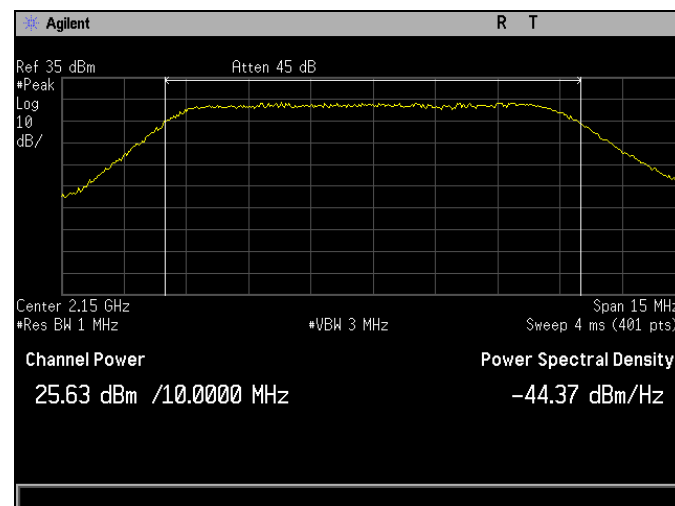
Plot 51. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Peak, 10 MHz



Plot 52. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Peak, 10 MHz

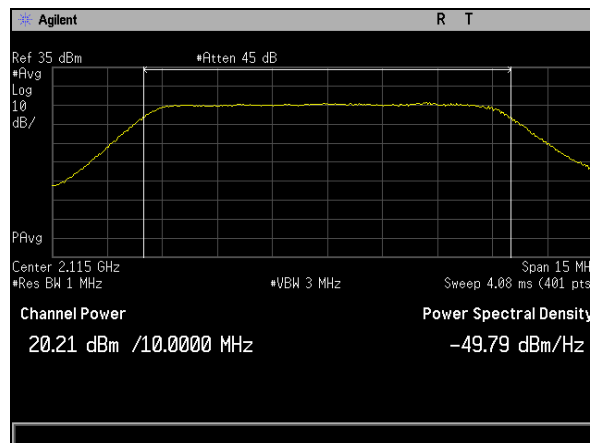


Plot 53. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Peak, 10 MHz

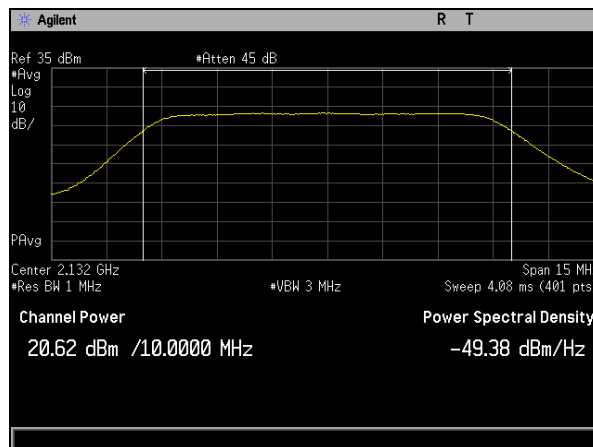


Plot 54. RF Output Power, QPSK, High Channel, Band 4, Port 1, Peak, 10 MHz

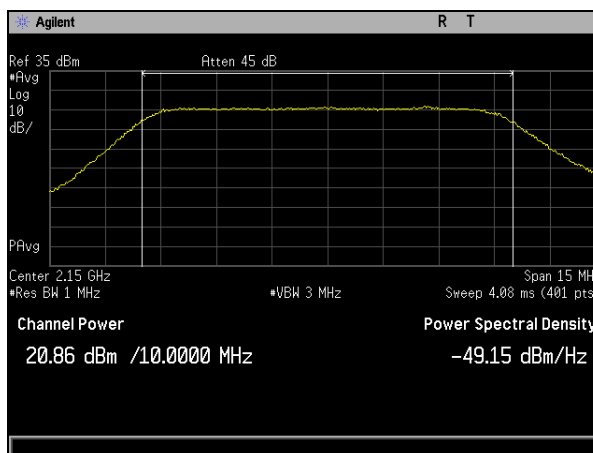
RF Output Power, Band 4, Port 2, 10 MHz



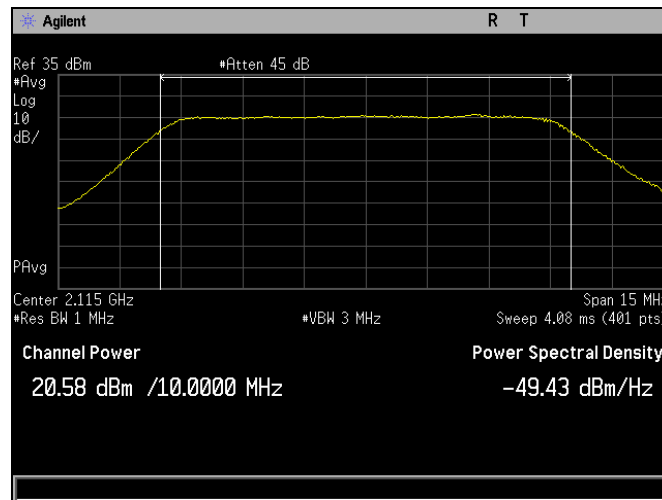
Plot 55. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Average, 10 MHz



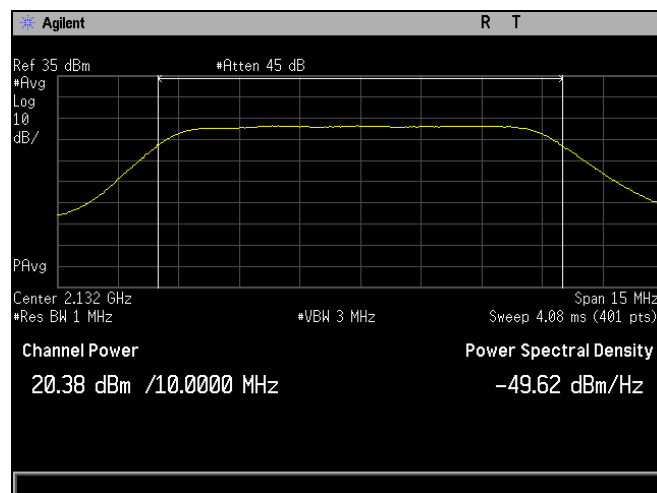
Plot 56. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Average, 10 MHz



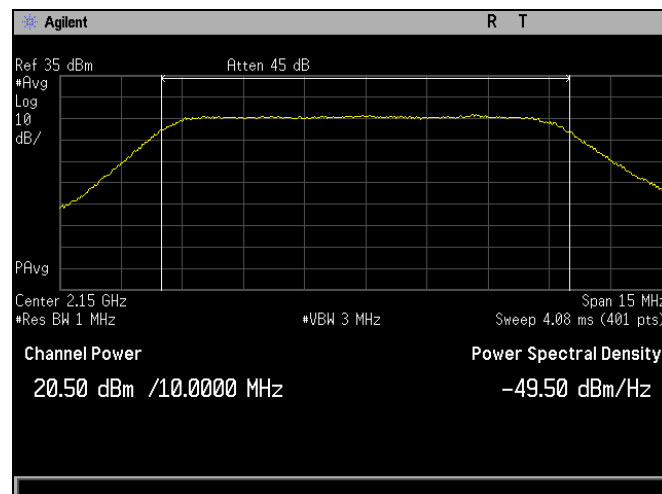
Plot 57. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Average, 10 MHz



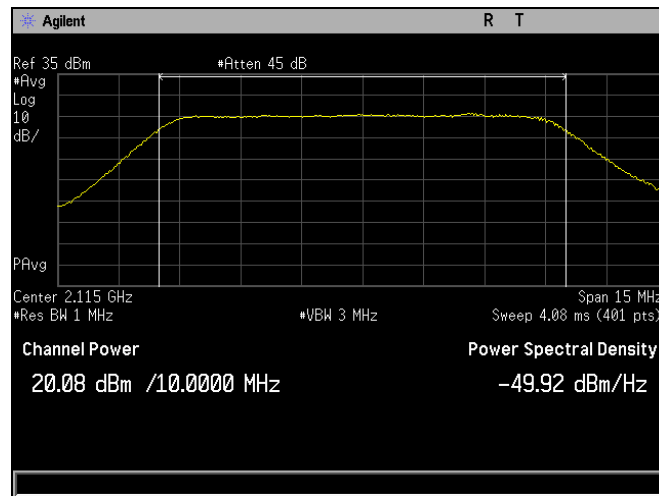
Plot 58. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Average, 10 MHz



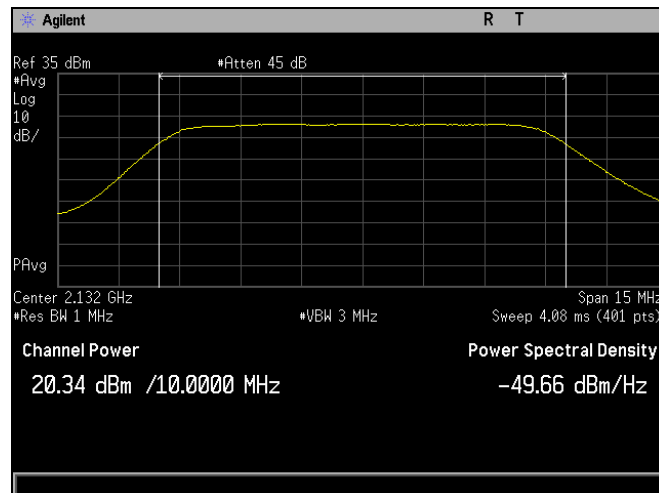
Plot 59. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Average, 10 MHz



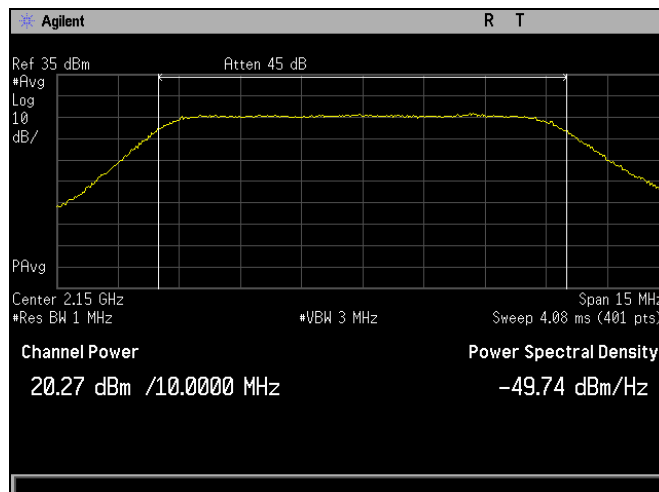
Plot 60. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Average, 10 MHz



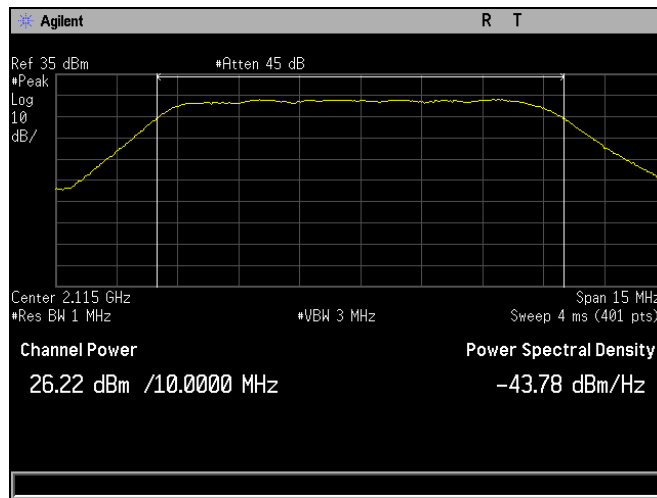
Plot 61. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Average, 10 MHz



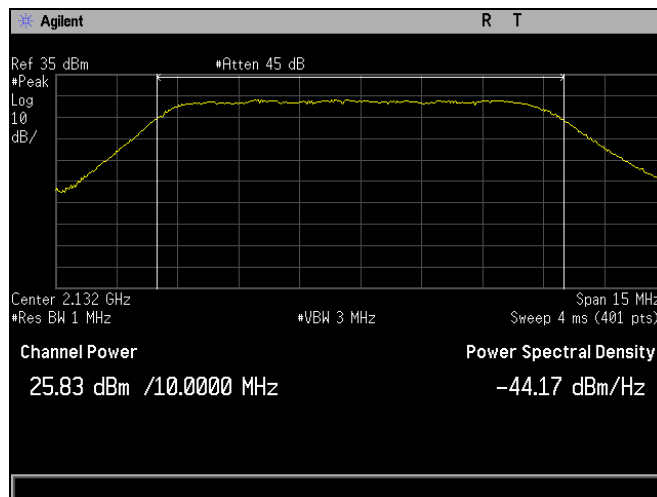
Plot 62. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Average, 10 MHz



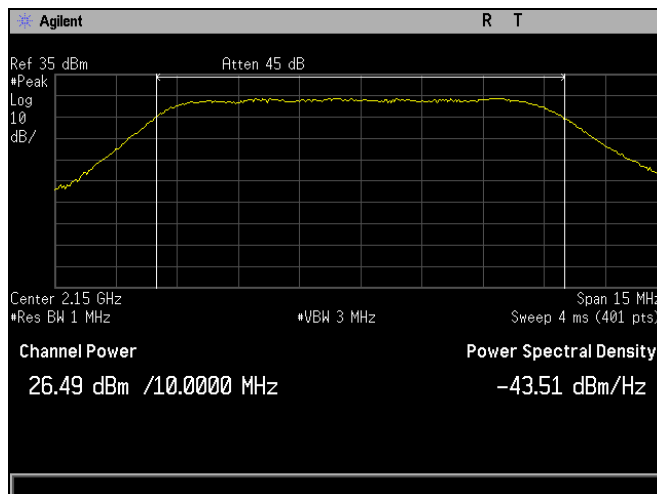
Plot 63. RF Output Power, QPSK, High Channel, Band 4, Port 2, Average, 10 MHz



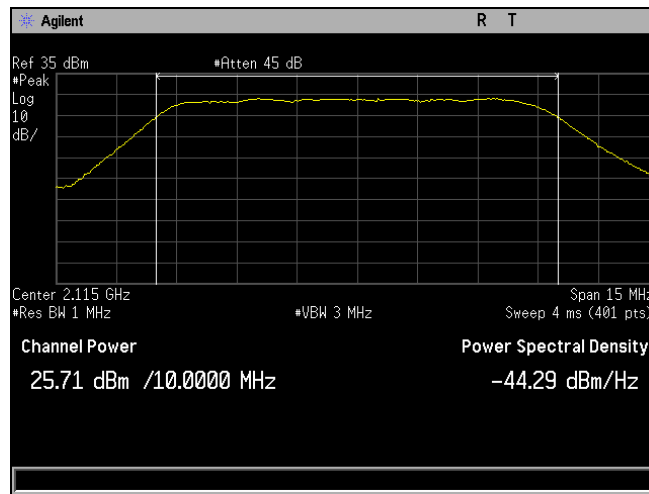
Plot 64. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Peak, 10 MHz



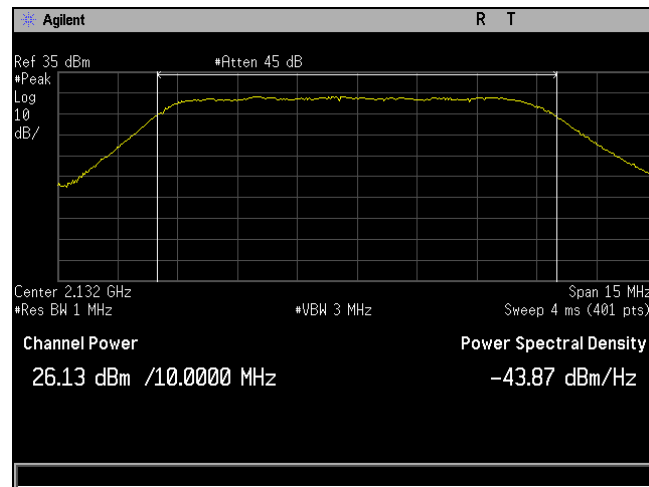
Plot 65. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Peak, 10 MHz



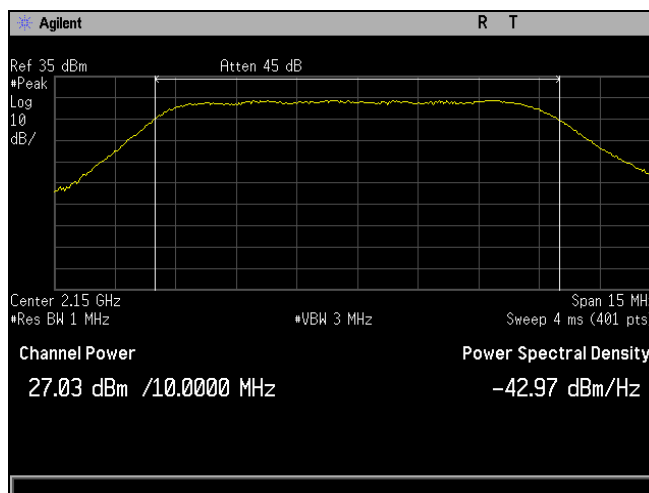
Plot 66. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Peak, 10 MHz



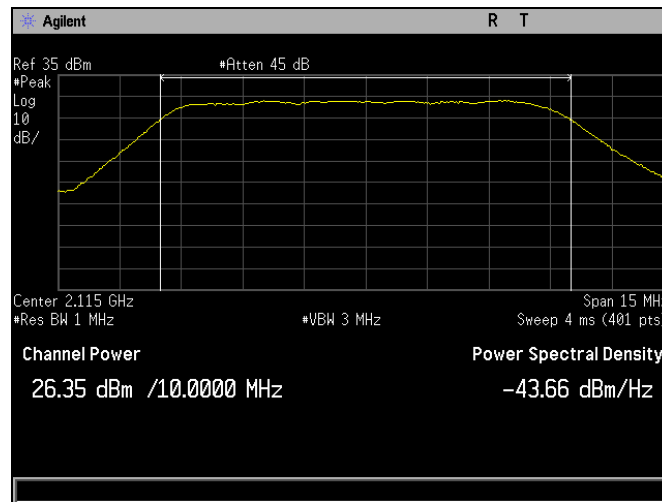
Plot 67. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Peak, 10 MHz



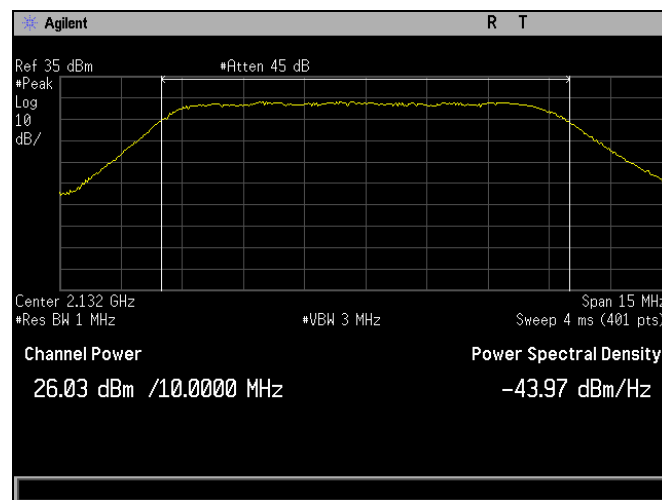
Plot 68. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Peak, 10 MHz



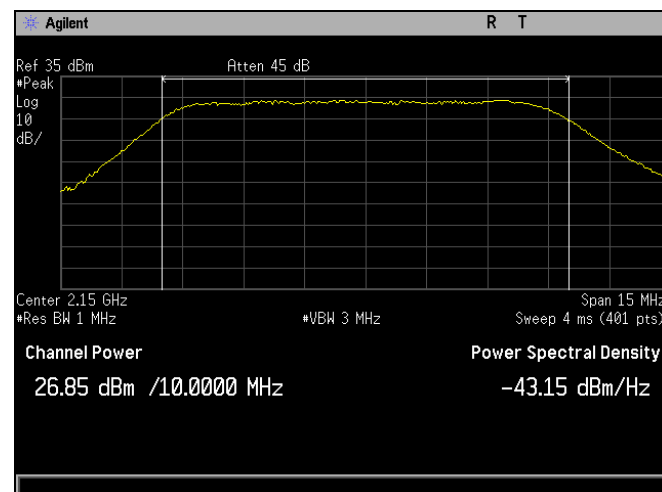
Plot 69. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Peak, 10 MHz



Plot 70. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Peak, 10 MHz

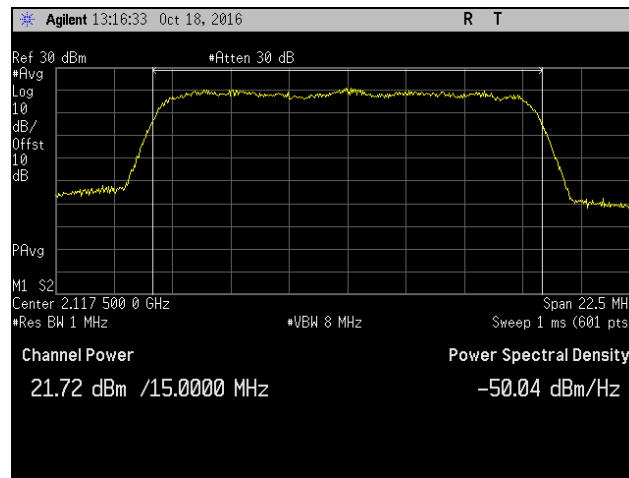


Plot 71. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Peak, 10 MHz

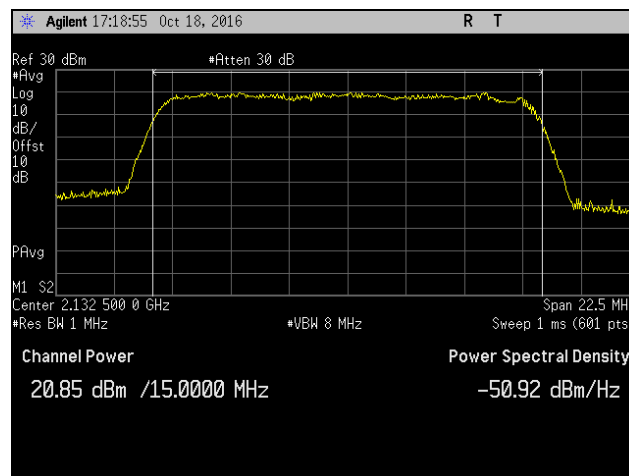


Plot 72. RF Output Power, QPSK, High Channel, Band 4, Port 2, Peak, 10 MHz

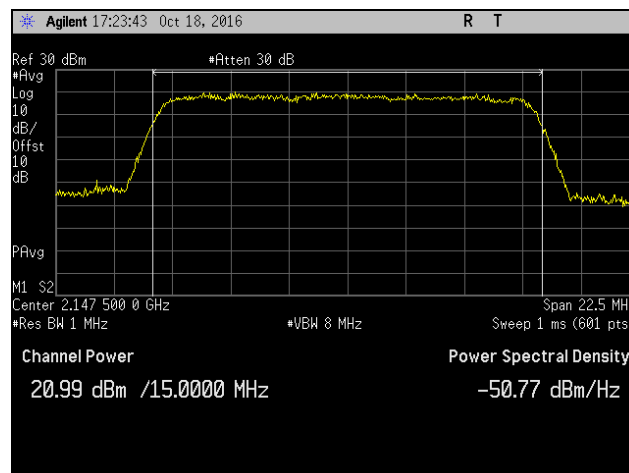
RF Output Power, Band 4, Port 1, 15 MHz



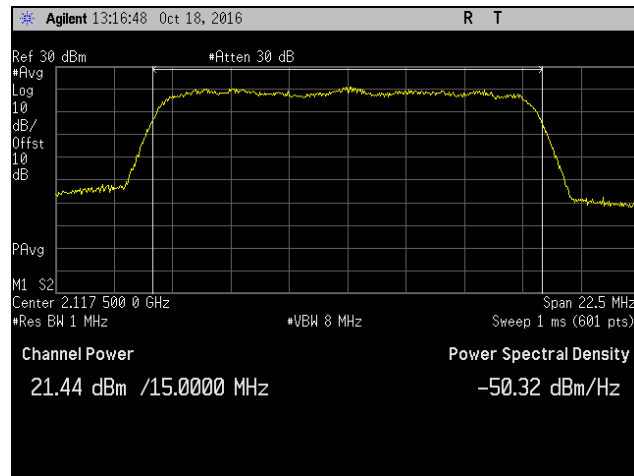
Plot 73. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Average, 15 MHz



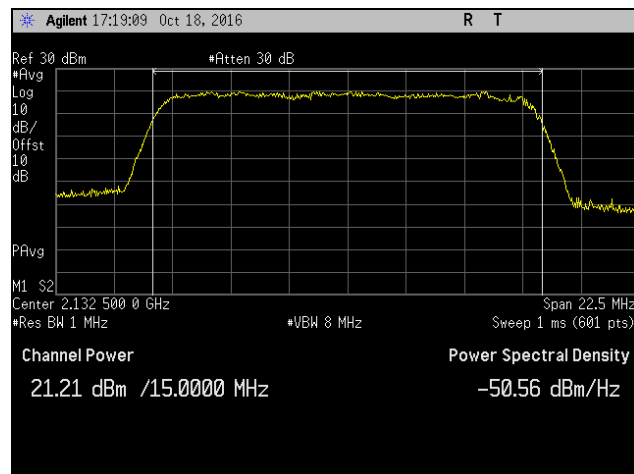
Plot 74. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Average, 15 MHz



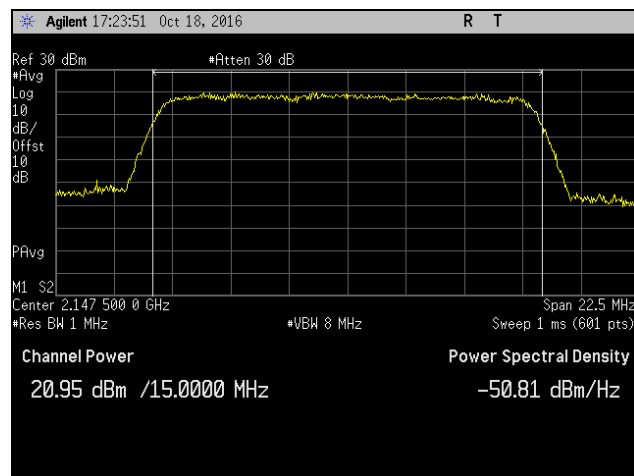
Plot 75. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Average, 15 MHz



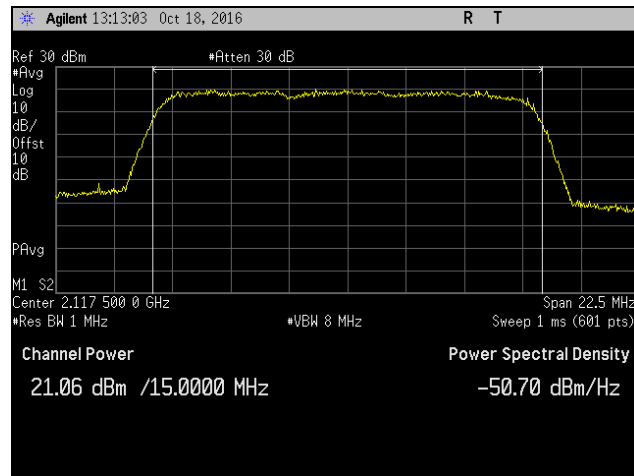
Plot 76. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Average, 15 MHz



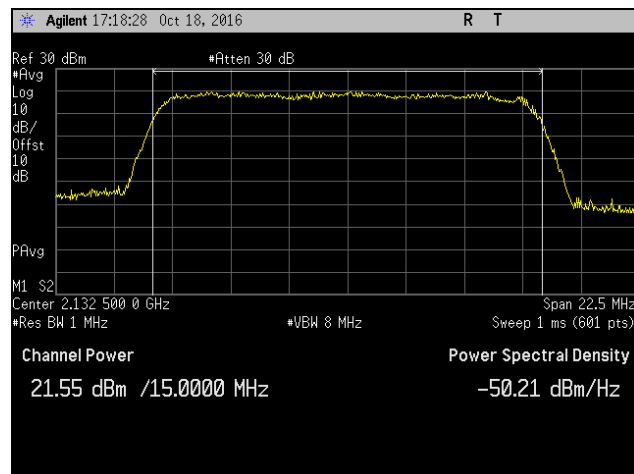
Plot 77. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Average, 15 MHz



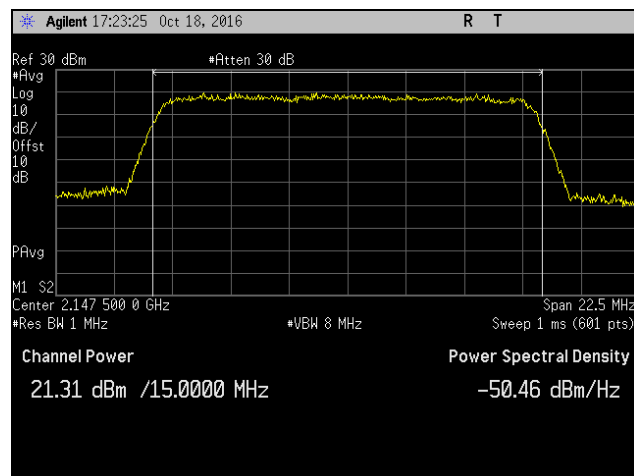
Plot 78. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Average, 15 MHz



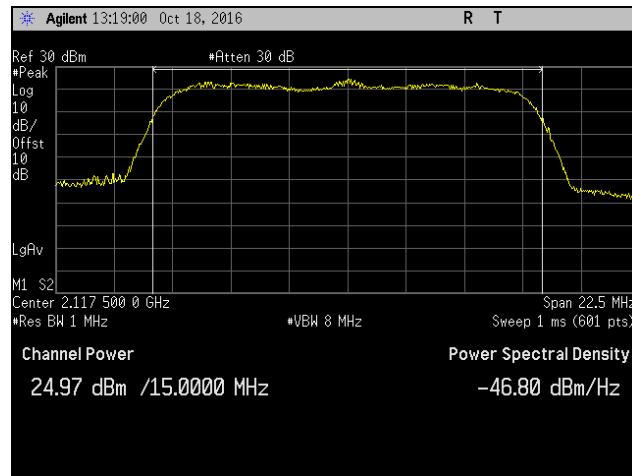
Plot 79. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Average, 15 MHz



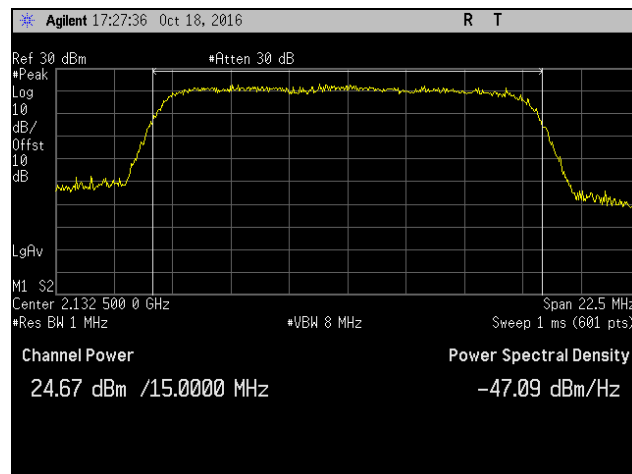
Plot 80. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Average, 15 MHz



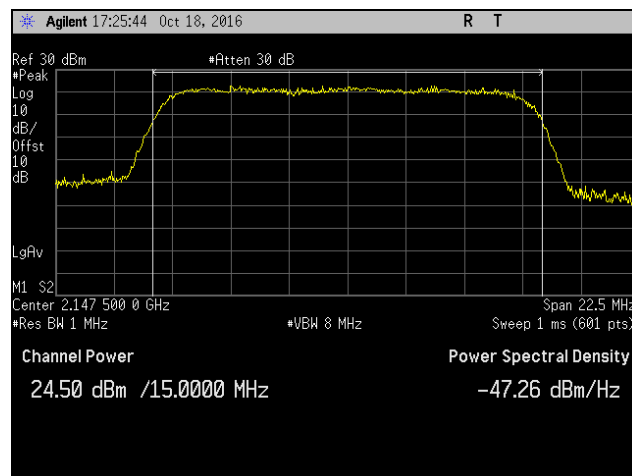
Plot 81. RF Output Power, QPSK, High Channel, Band 4, Port 1, Average, 15 MHz



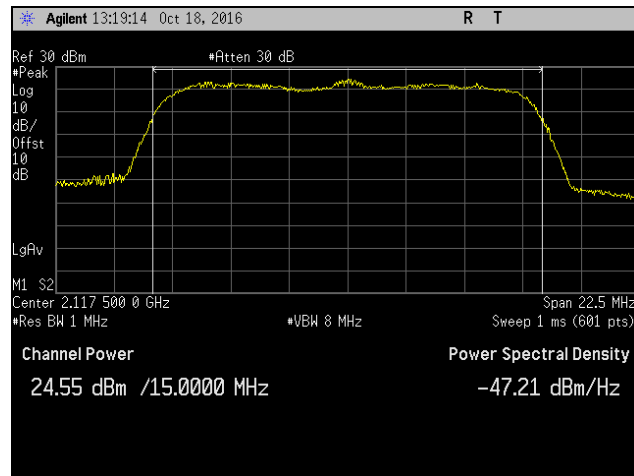
Plot 82. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Peak, 15 MHz



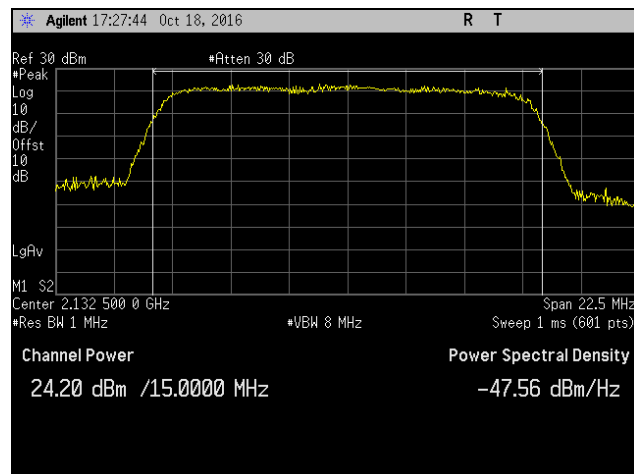
Plot 83. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Peak, 15 MHz



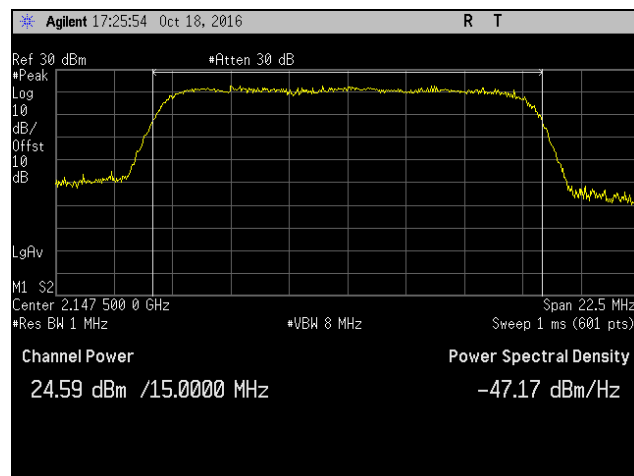
Plot 84. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Peak, 15 MHz



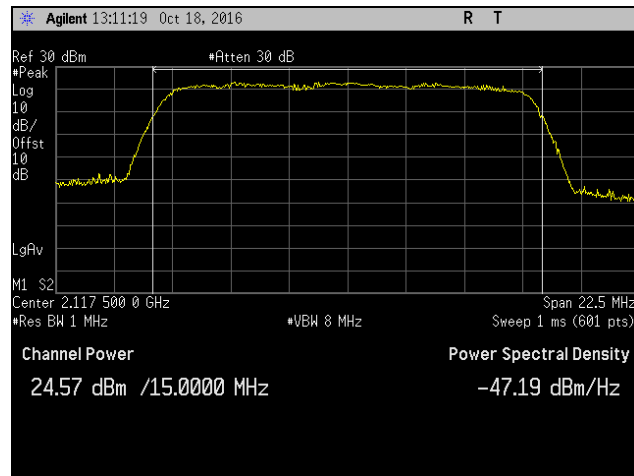
Plot 85. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Peak, 15 MHz



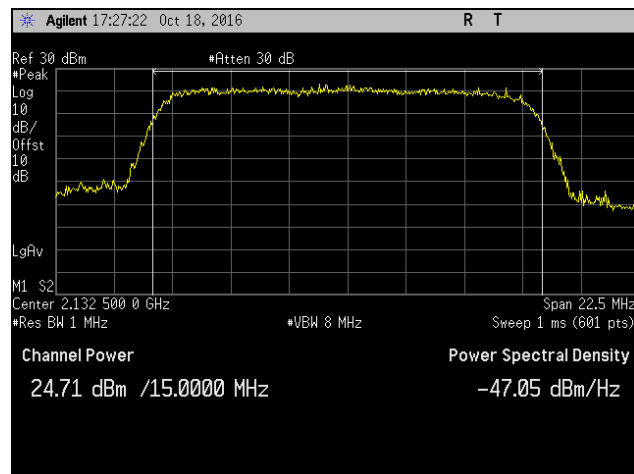
Plot 86. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Peak, 15 MHz



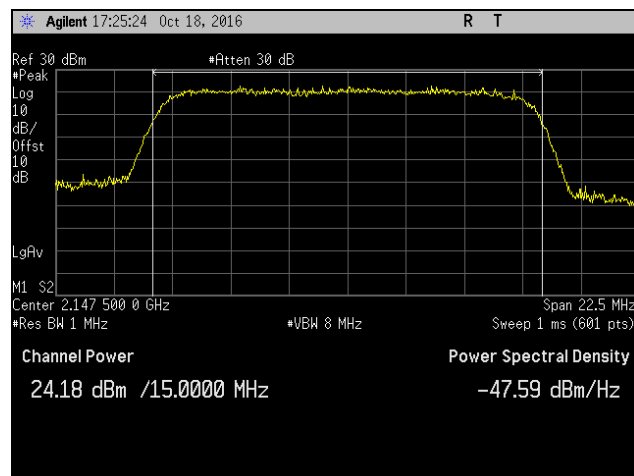
Plot 87. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Peak, 15 MHz



Plot 88. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Peak, 15 MHz

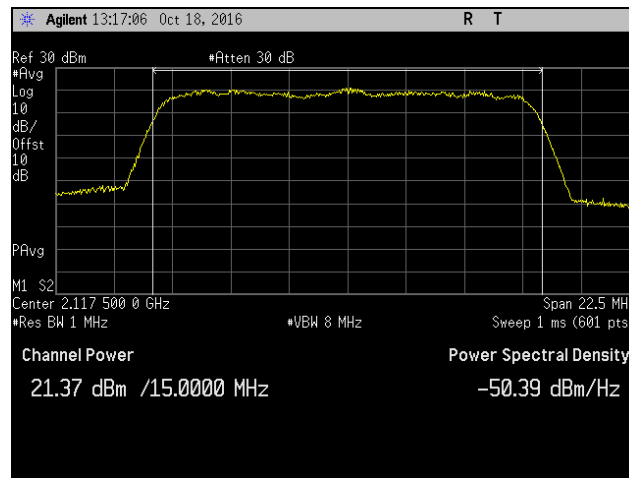


Plot 89. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Peak, 15 MHz

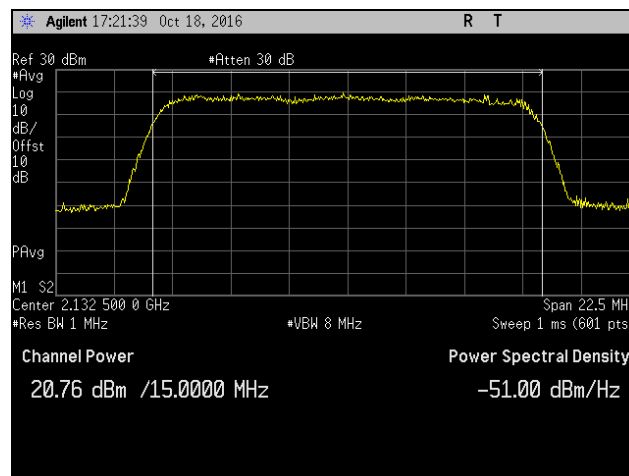


Plot 90. RF Output Power, QPSK, High Channel, Band 4, Port 1, Peak, 15 MHz

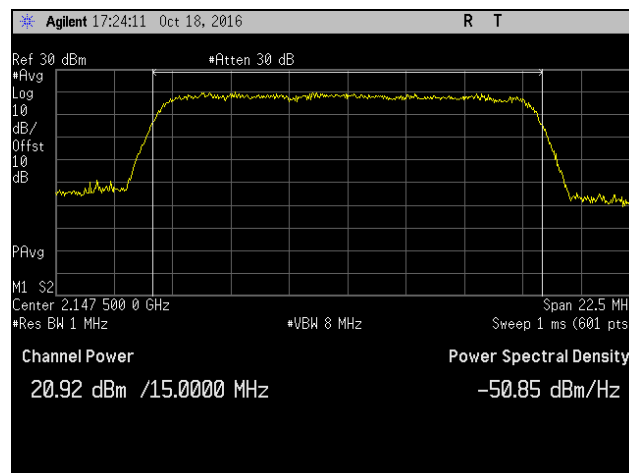
RF Output Power, Band 4, Port 2, 15 MHz



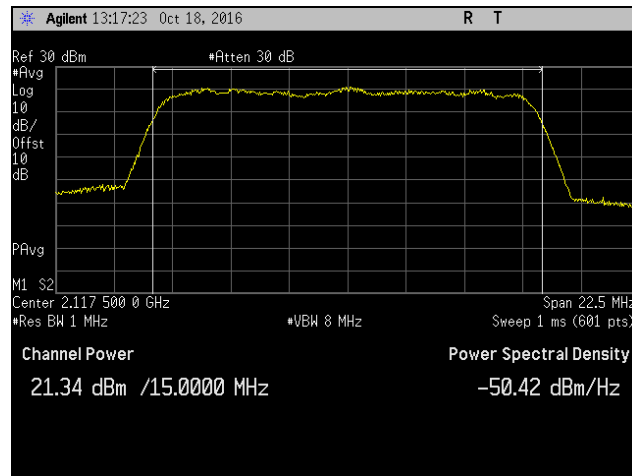
Plot 91. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Average, 15 MHz



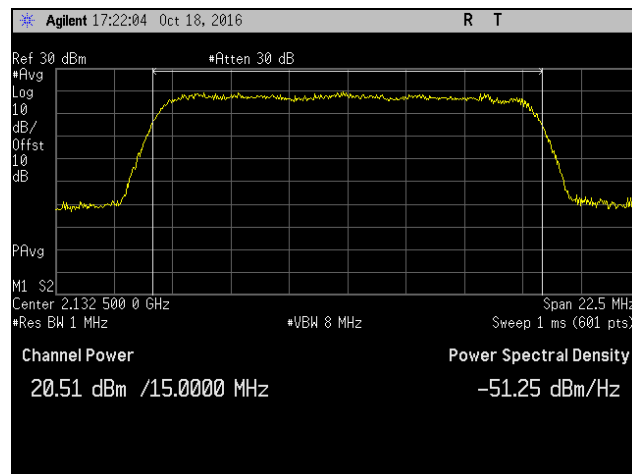
Plot 92. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Average, 15 MHz



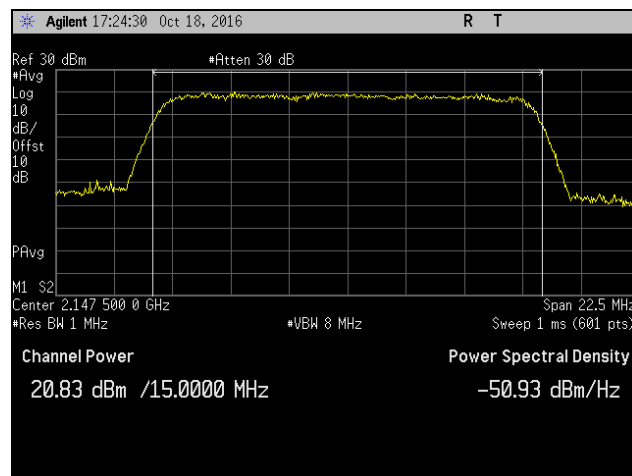
Plot 93. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Average, 15 MHz



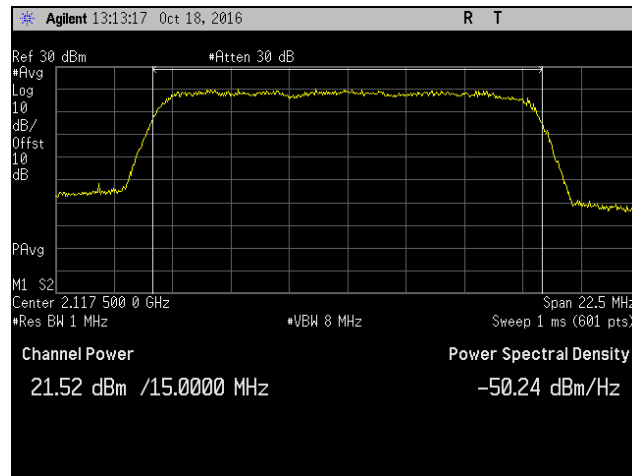
Plot 94. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Average, 15 MHz



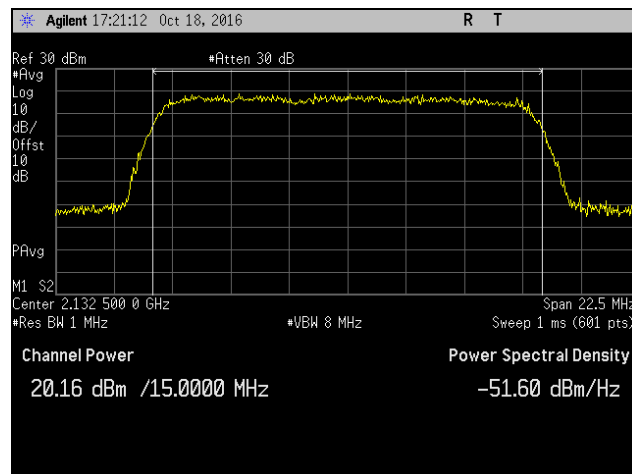
Plot 95. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Average, 15 MHz



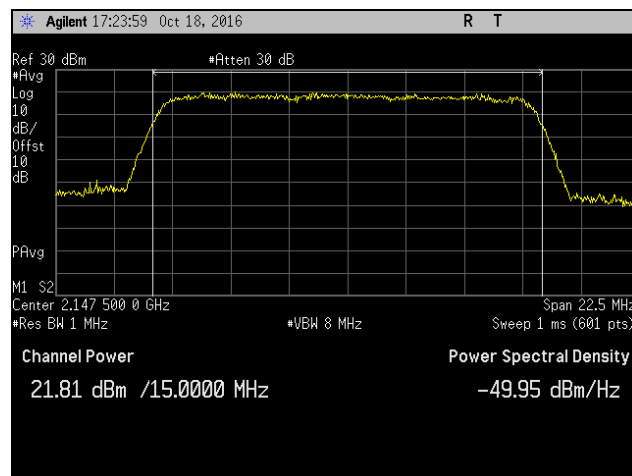
Plot 96. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Average, 15 MHz



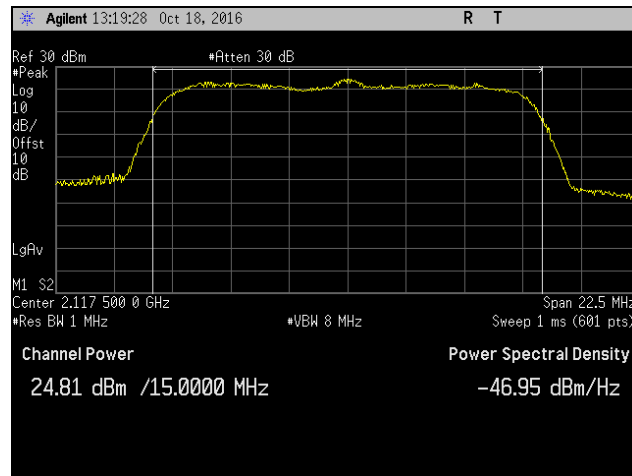
Plot 97. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Average, 15 MHz



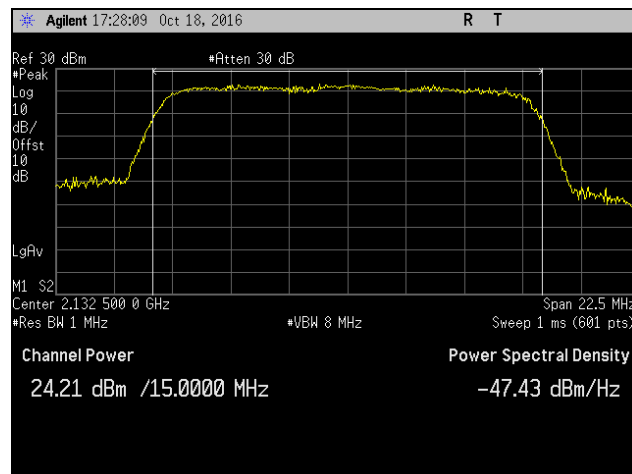
Plot 98. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Average, 15 MHz



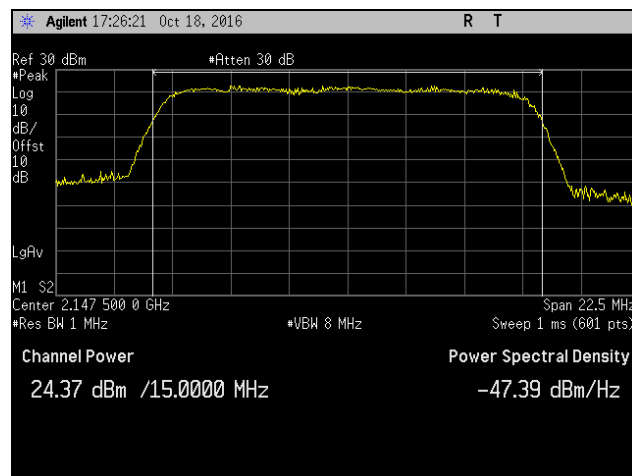
Plot 99. RF Output Power, QPSK, High Channel, Band 4, Port 2, Average, 15 MHz



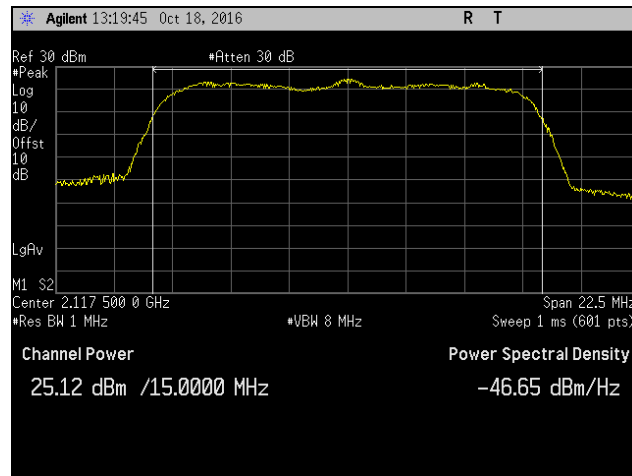
Plot 100. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Peak, 15 MHz



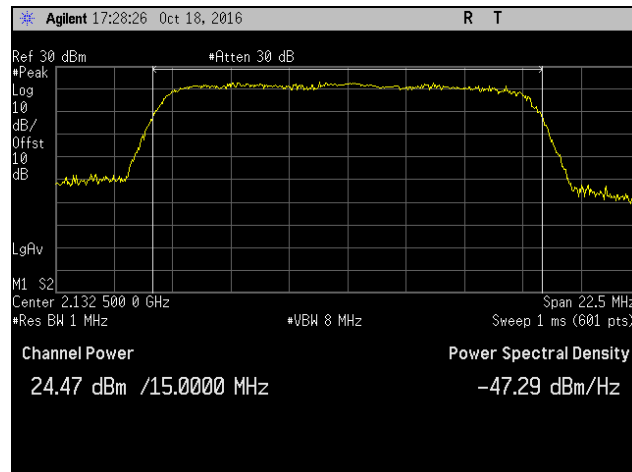
Plot 101. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Peak, 15 MHz



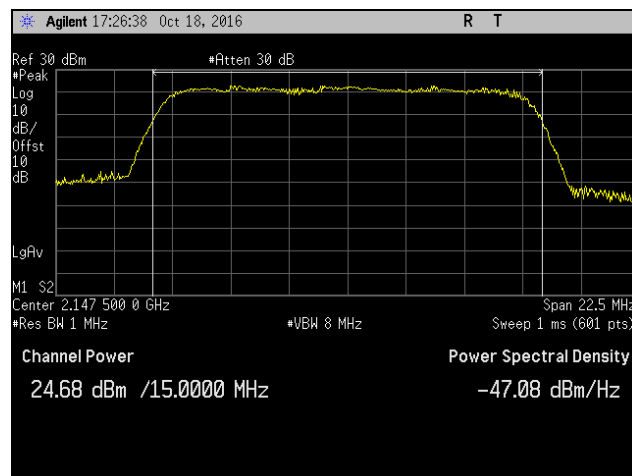
Plot 102. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Peak, 15 MHz



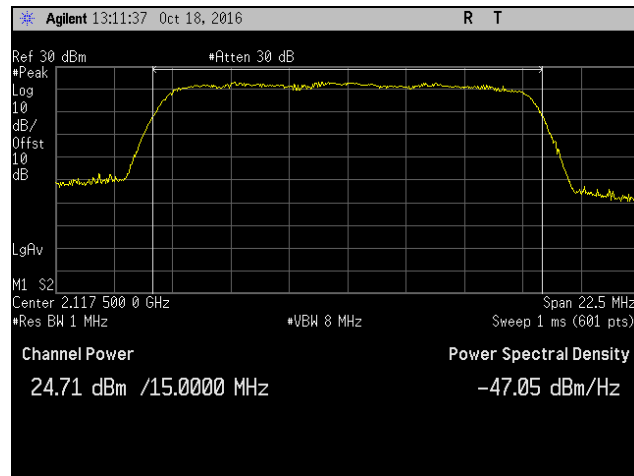
Plot 103. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Peak, 15 MHz



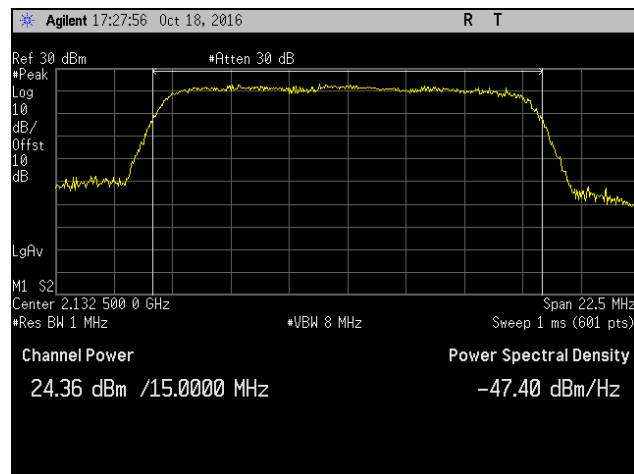
Plot 104. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Peak, 15 MHz



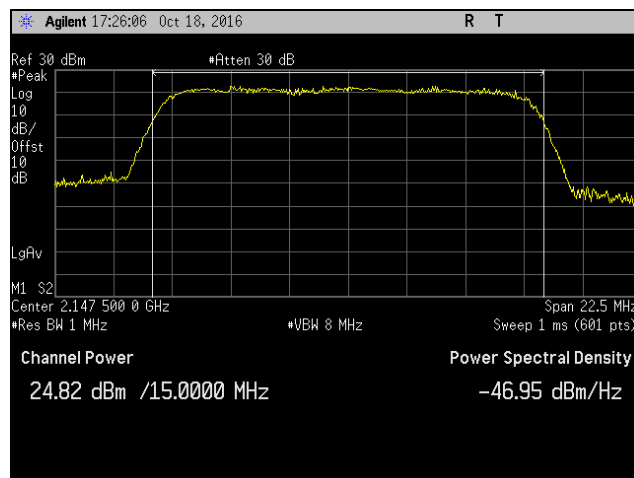
Plot 105. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Peak, 15 MHz



Plot 106. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Peak, 15 MHz

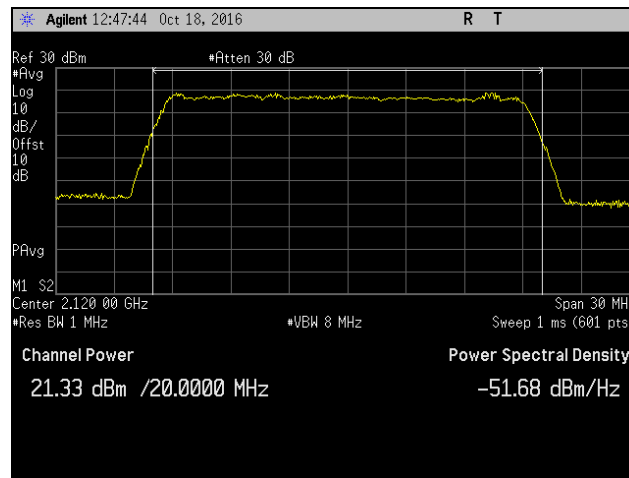


Plot 107. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Peak, 15 MHz

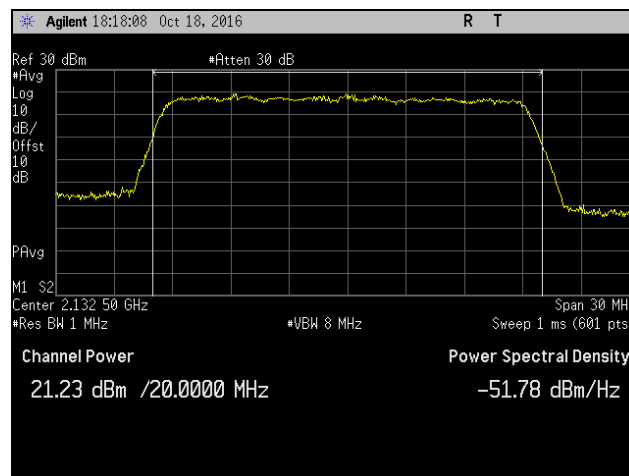


Plot 108. RF Output Power, QPSK, High Channel, Band 4, Port 2, Peak, 15 MHz

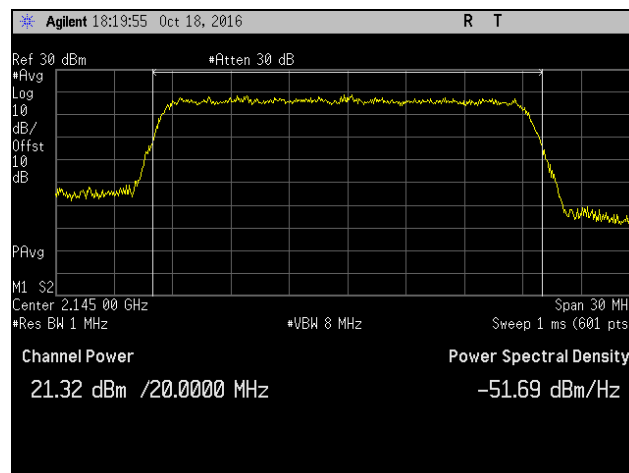
RF Output Power, Band 4, Port 1, 20 MHz



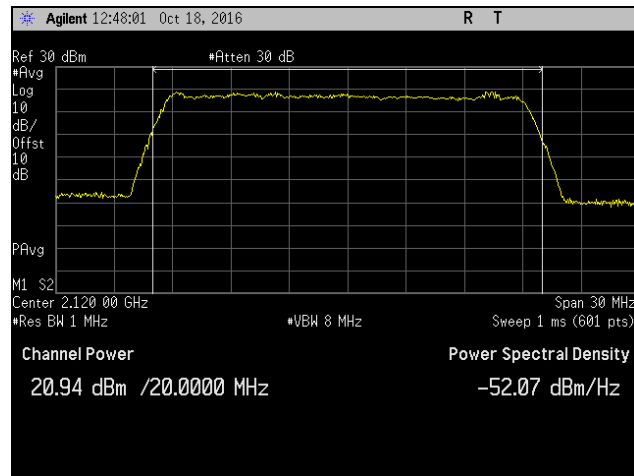
Plot 109. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Average, 20 MHz



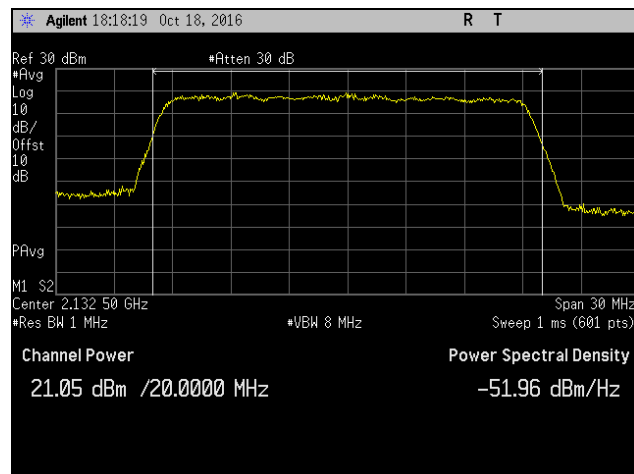
Plot 110. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Average, 20 MHz



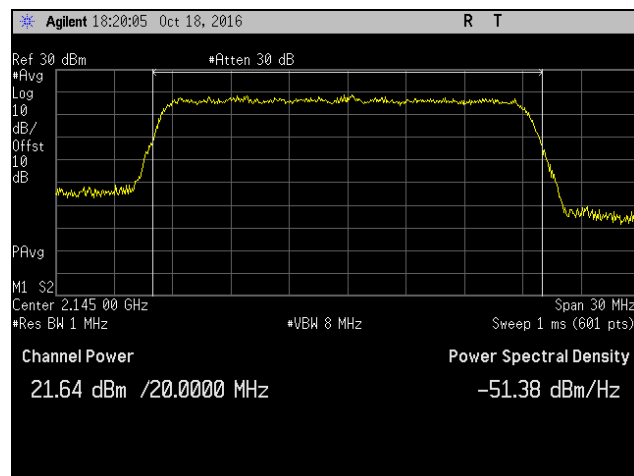
Plot 111. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Average, 20 MHz



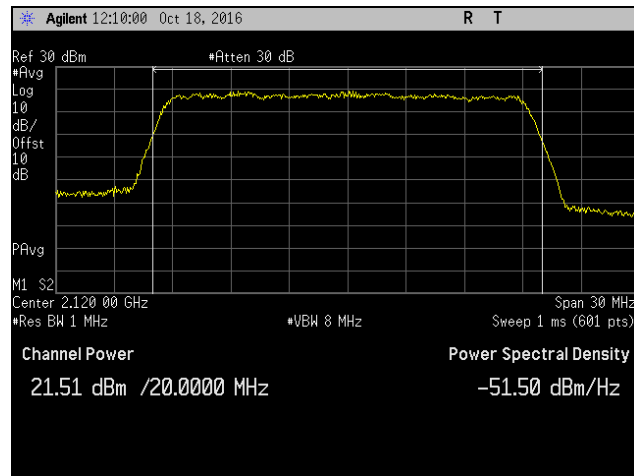
Plot 112. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Average, 20 MHz



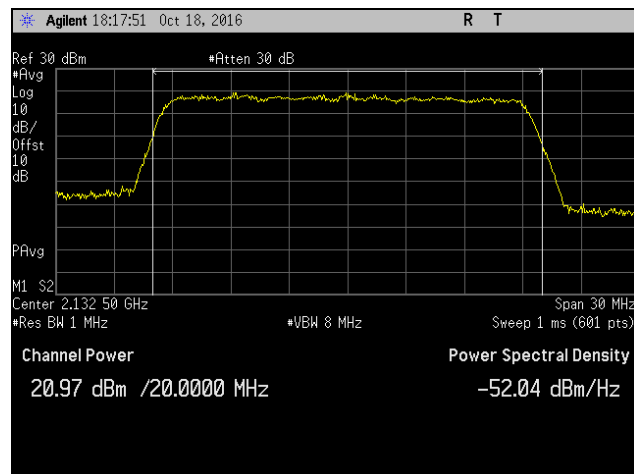
Plot 113. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Average, 20 MHz



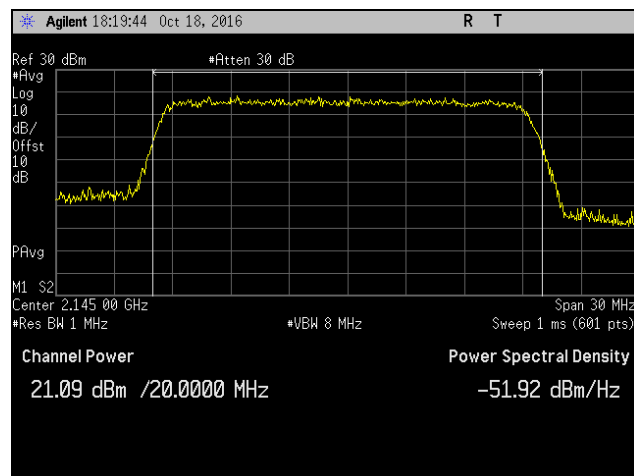
Plot 114. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Average, 20 MHz



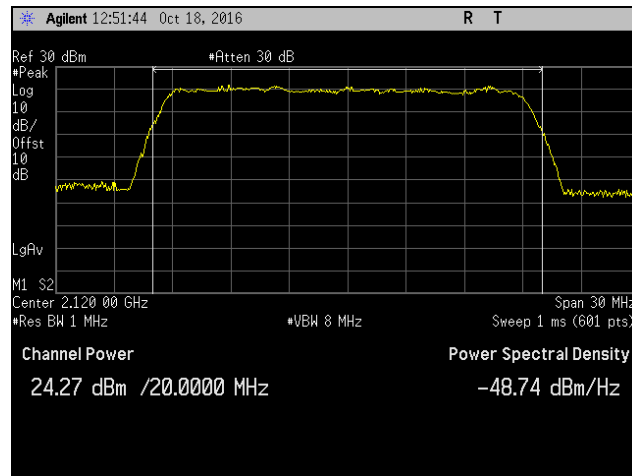
Plot 115. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Average, 20 MHz



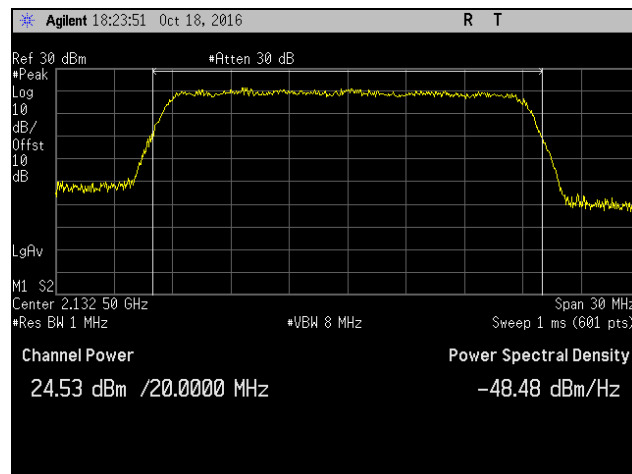
Plot 116. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Average, 20 MHz



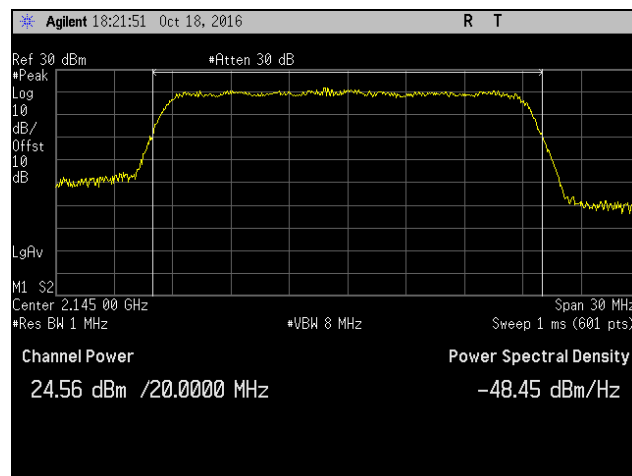
Plot 117. RF Output Power, QPSK, High Channel, Band 4, Port 1, Average, 20 MHz



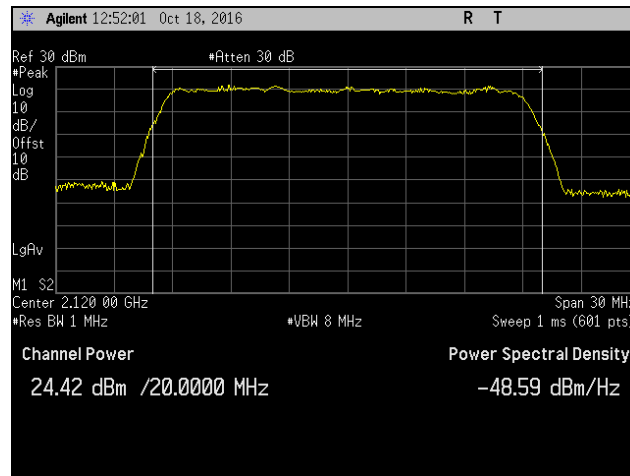
Plot 118. RF Output Power, QAM-16, Low Channel, Band 4, Port 1, Peak, 20 MHz



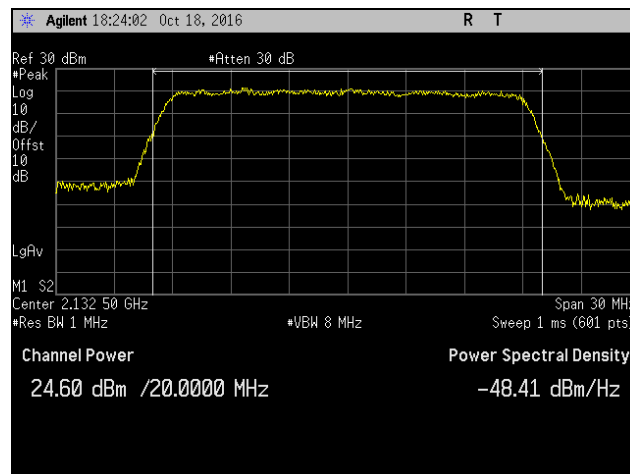
Plot 119. RF Output Power, QAM-16, Mid Channel, Band 4, Port 1, Peak, 20 MHz



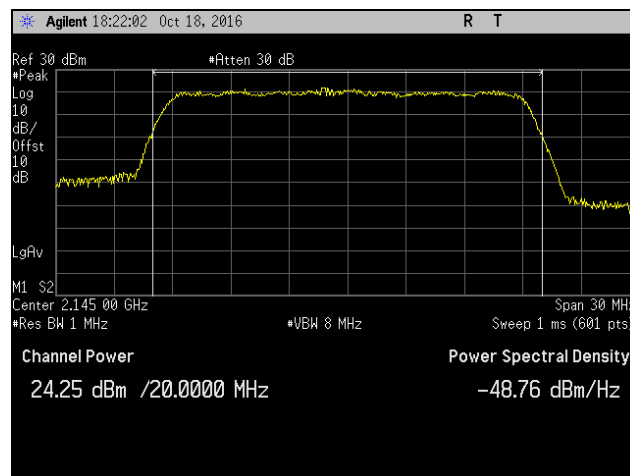
Plot 120. RF Output Power, QAM-16, High Channel, Band 4, Port 1, Peak, 20 MHz



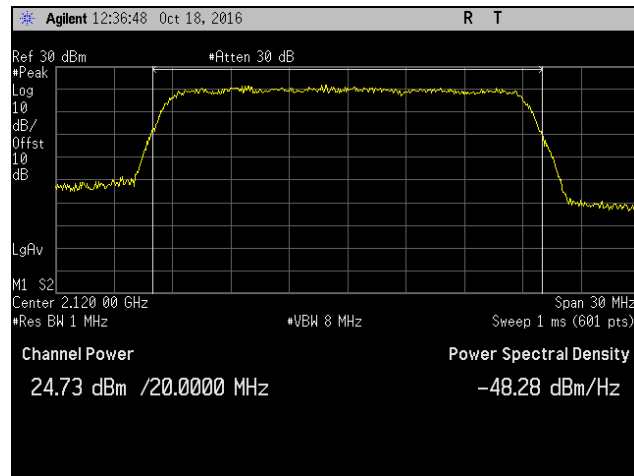
Plot 121. RF Output Power, QAM-64, Low Channel, Band 4, Port 1, Peak, 20 MHz



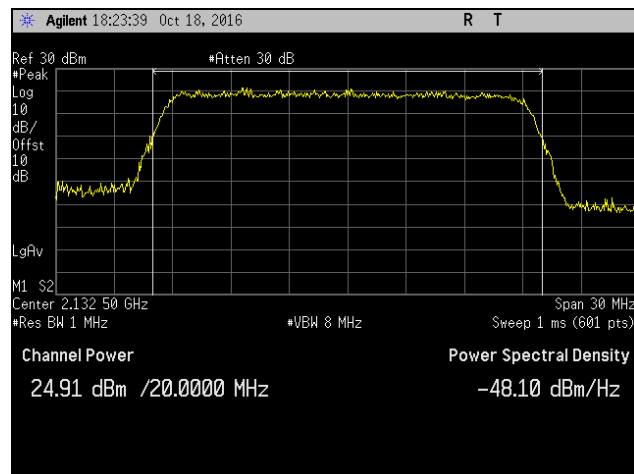
Plot 122. RF Output Power, QAM-64, Mid Channel, Band 4, Port 1, Peak, 20 MHz



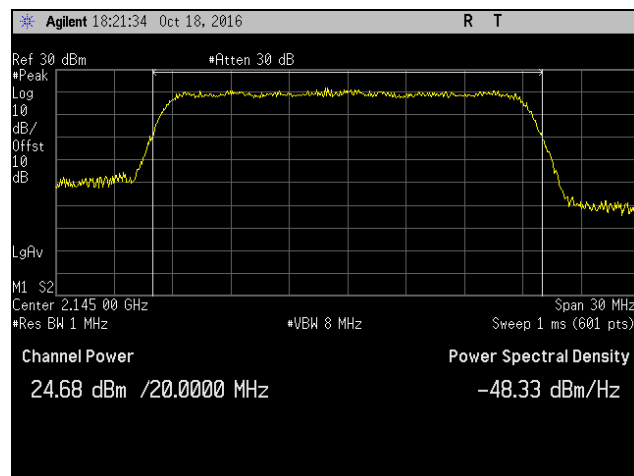
Plot 123. RF Output Power, QAM-64, High Channel, Band 4, Port 1, Peak, 20 MHz



Plot 124. RF Output Power, QPSK, Low Channel, Band 4, Port 1, Peak, 20 MHz

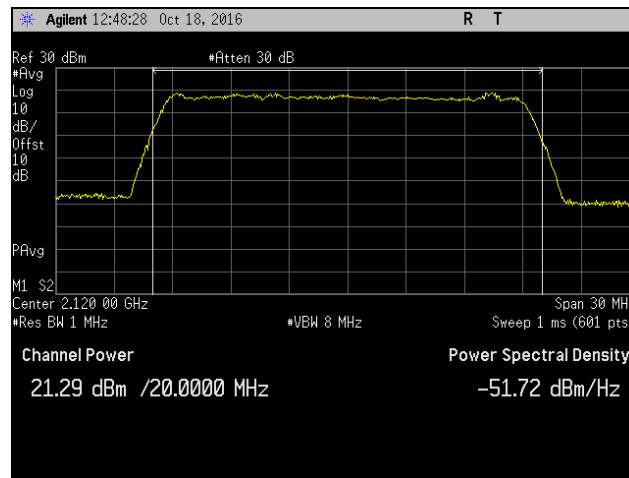


Plot 125. RF Output Power, QPSK, Mid Channel, Band 4, Port 1, Peak, 20 MHz

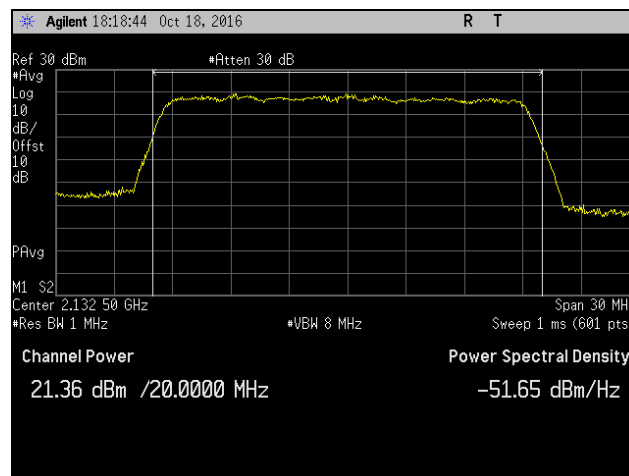


Plot 126. RF Output Power, QPSK, High Channel, Band 4, Port 1, Peak, 20 MHz

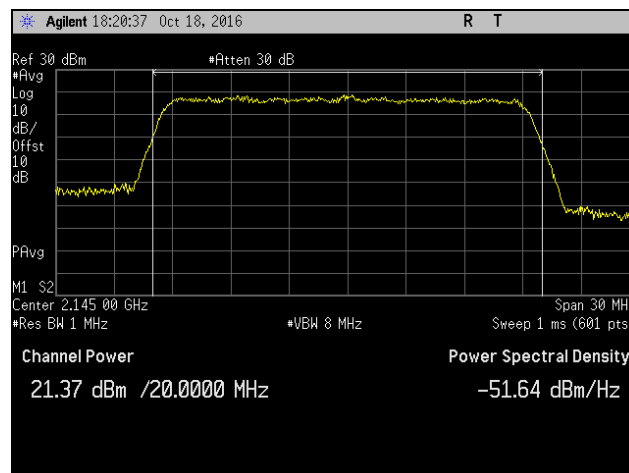
RF Output Power, Band 4, Port 2, 20 MHz



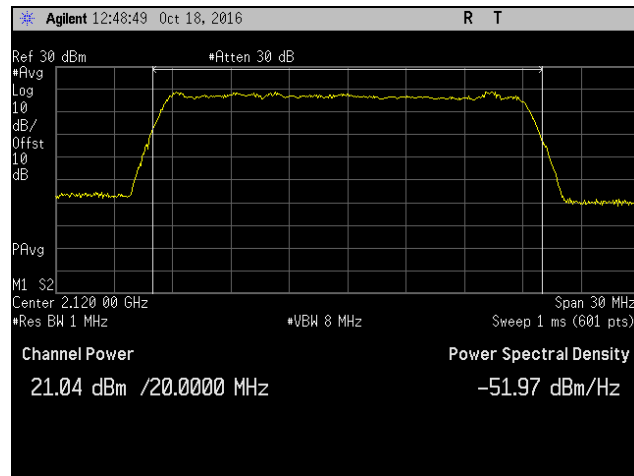
Plot 127. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Average, 20 MHz



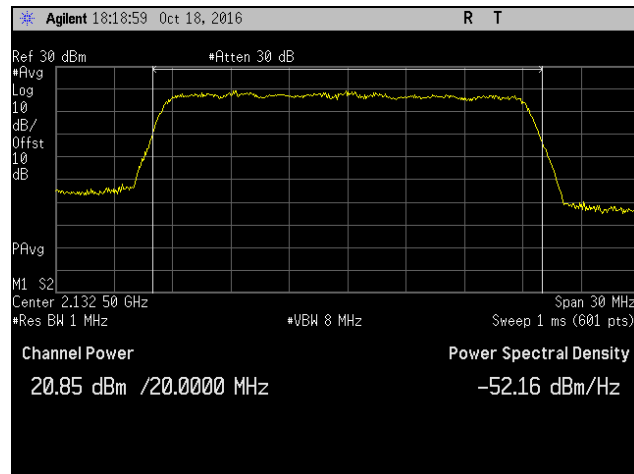
Plot 128. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Average, 20 MHz



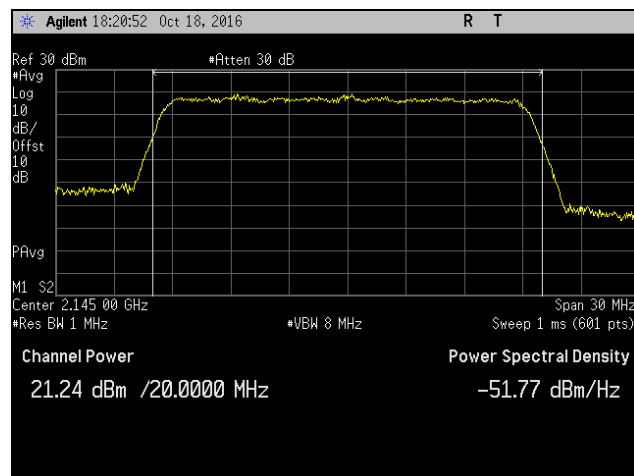
Plot 129. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Average, 20 MHz



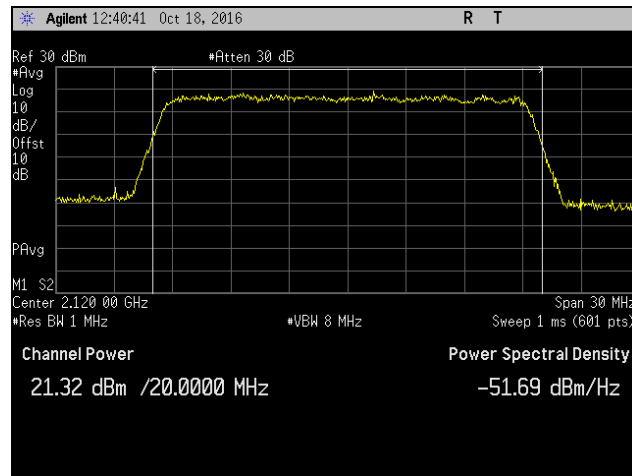
Plot 130. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Average, 20 MHz



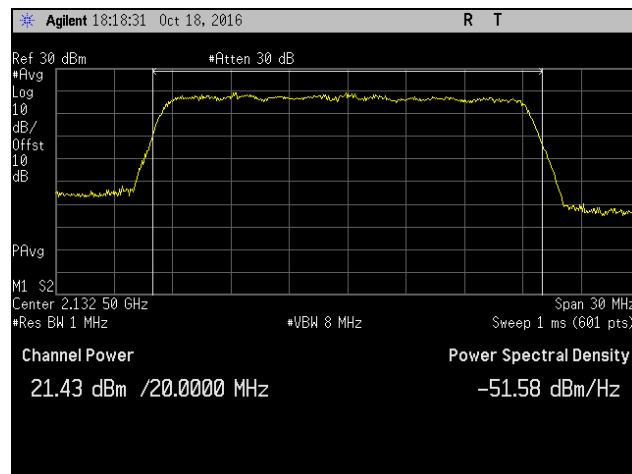
Plot 131. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Average, 20 MHz



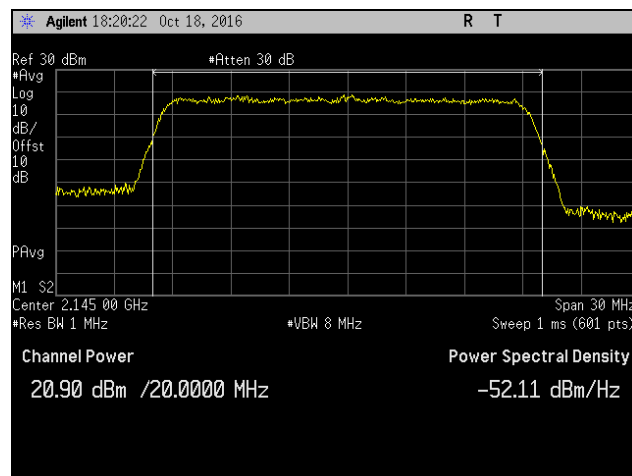
Plot 132. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Average, 20 MHz



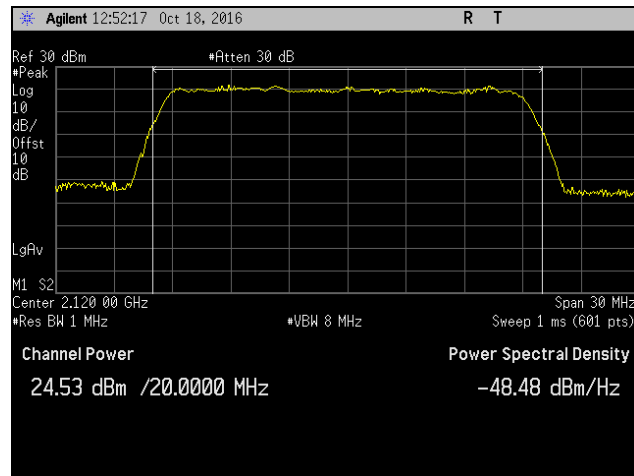
Plot 133. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Average, 20 MHz



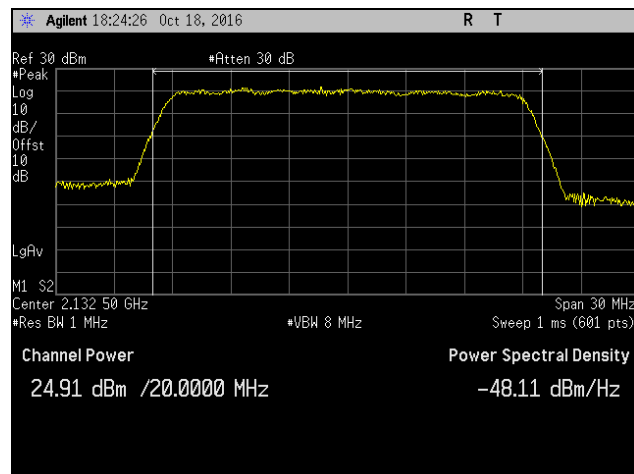
Plot 134. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Average, 20 MHz



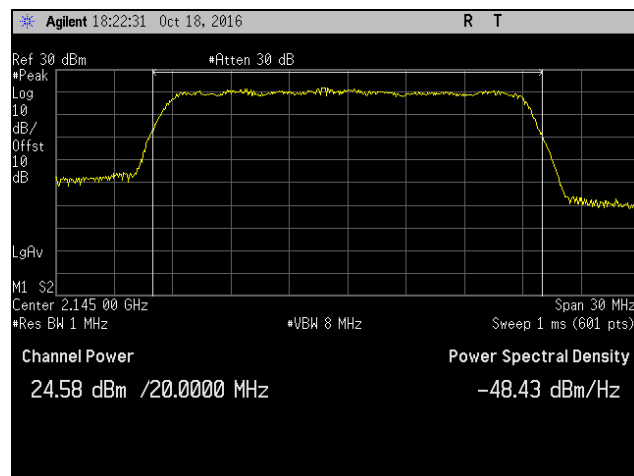
Plot 135. RF Output Power, QPSK, High Channel, Band 4, Port 2, Average, 20 MHz



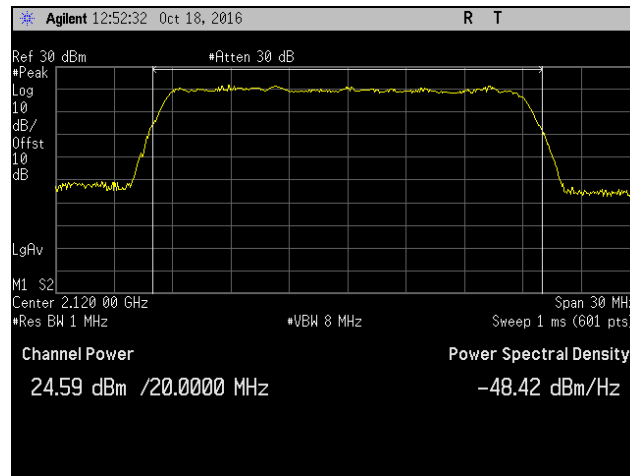
Plot 136. RF Output Power, QAM-16, Low Channel, Band 4, Port 2, Peak, 20 MHz



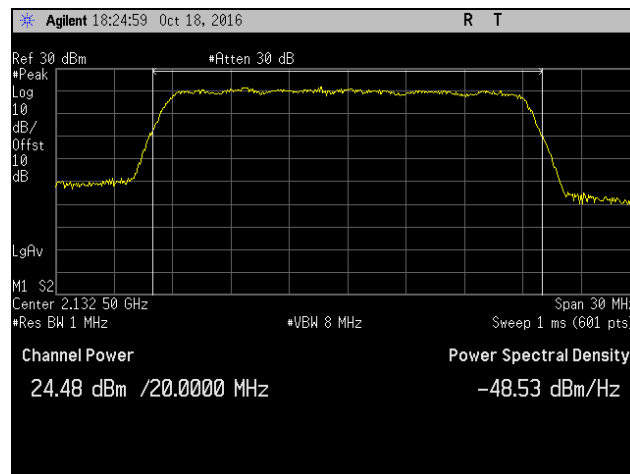
Plot 137. RF Output Power, QAM-16, Mid Channel, Band 4, Port 2, Peak, 20 MHz



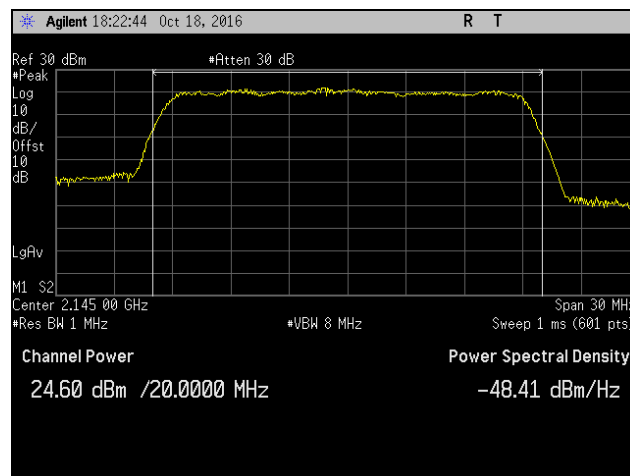
Plot 138. RF Output Power, QAM-16, High Channel, Band 4, Port 2, Peak, 20 MHz



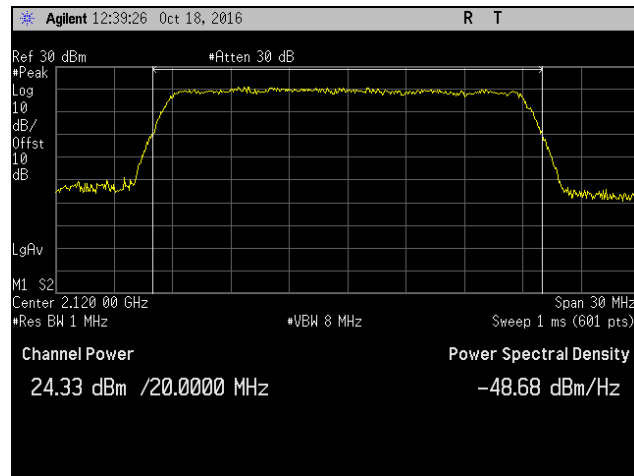
Plot 139. RF Output Power, QAM-64, Low Channel, Band 4, Port 2, Peak, 20 MHz



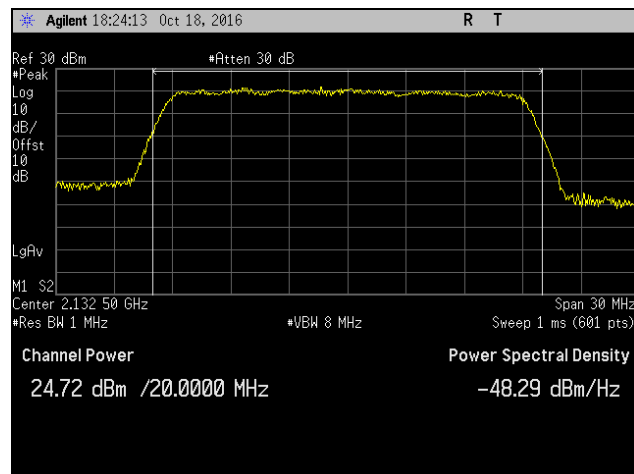
Plot 140. RF Output Power, QAM-64, Mid Channel, Band 4, Port 2, Peak, 20 MHz



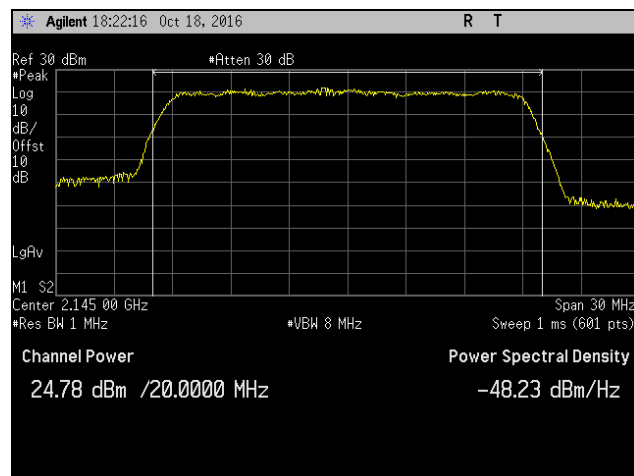
Plot 141. RF Output Power, QAM-64, High Channel, Band 4, Port 2, Peak, 20 MHz



Plot 142. RF Output Power, QPSK, Low Channel, Band 4, Port 2, Peak, 20 MHz

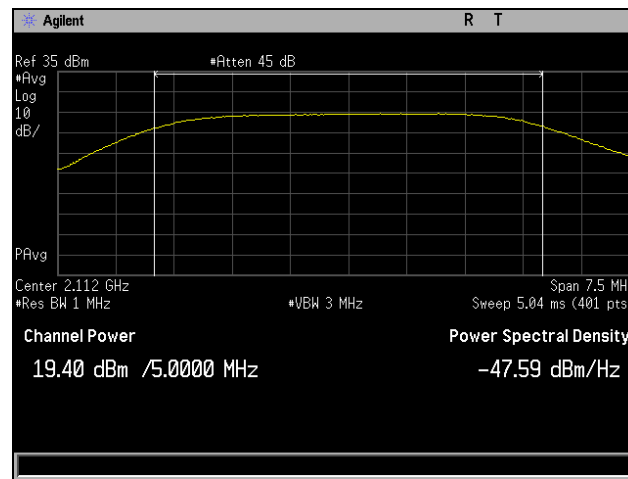


Plot 143. RF Output Power, QPSK, Mid Channel, Band 4, Port 2, Peak, 20 MHz

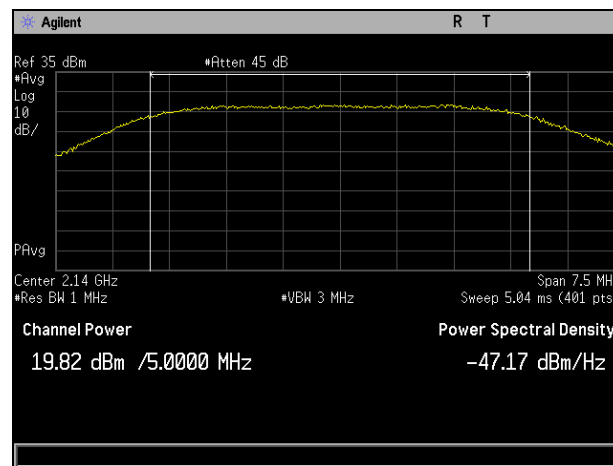


Plot 144. RF Output Power, QPSK, High Channel, Band 4, Port 2, Peak, 20 MHz

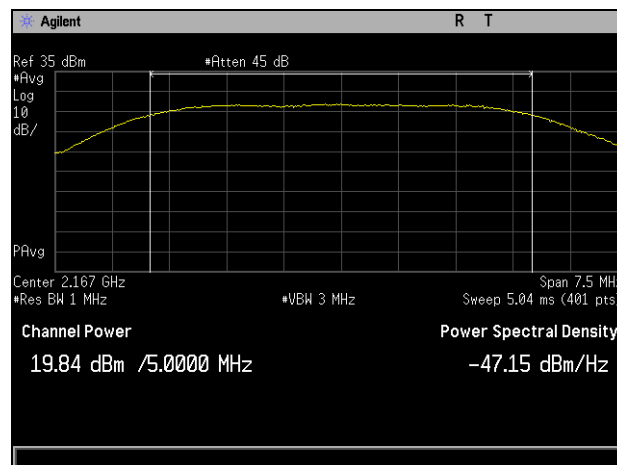
RF Output Power, Band 10, Port 1, 5 MHz



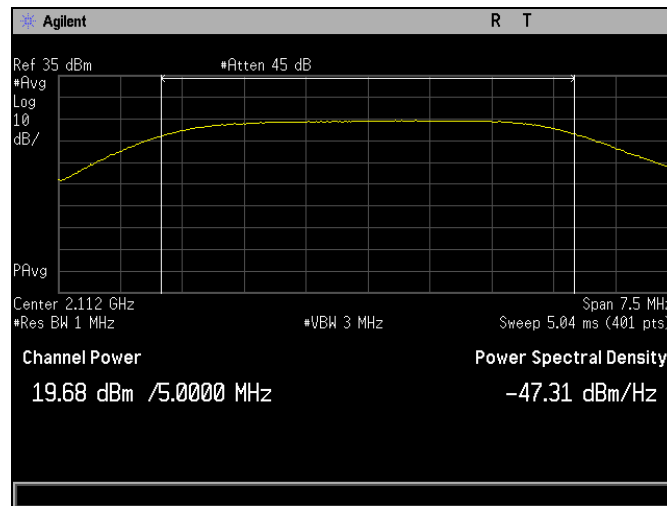
Plot 145. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Average, 5 MHz



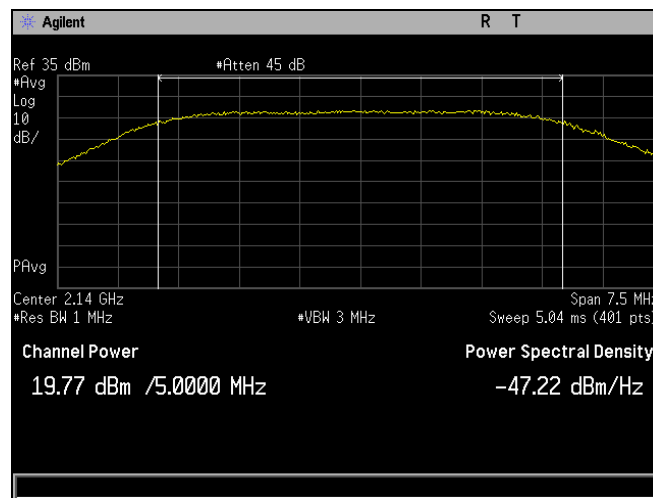
Plot 146. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Average, 5 MHz



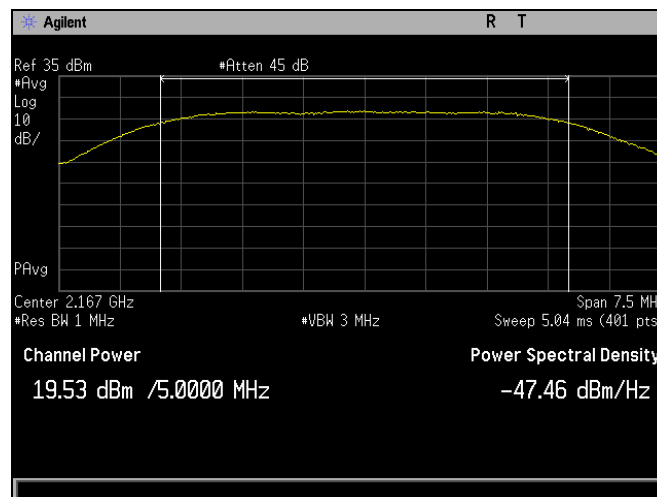
Plot 147. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Average, 5 MHz



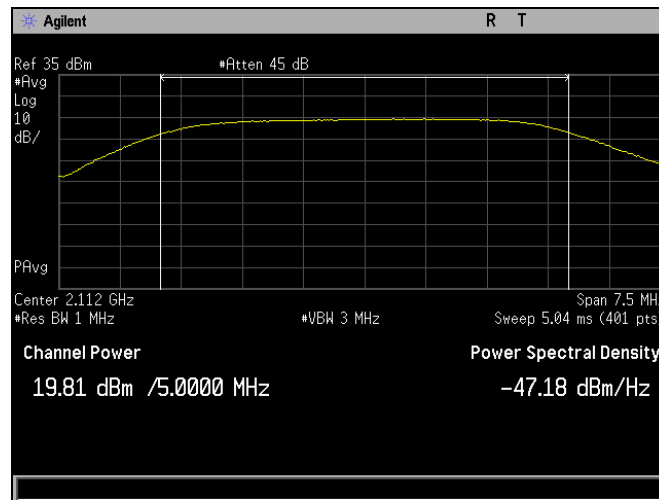
Plot 148. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Average, 5 MHz



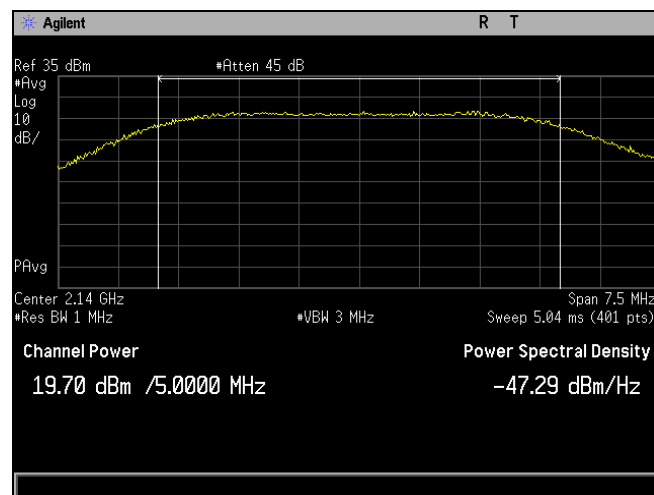
Plot 149. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Average, 5 MHz



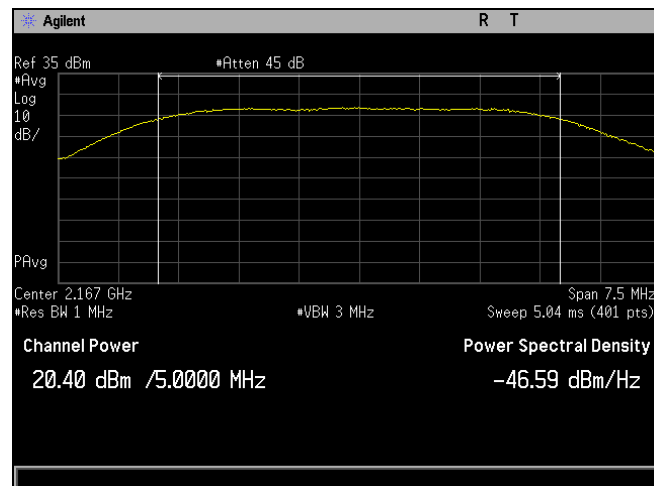
Plot 150. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Average, 5 MHz



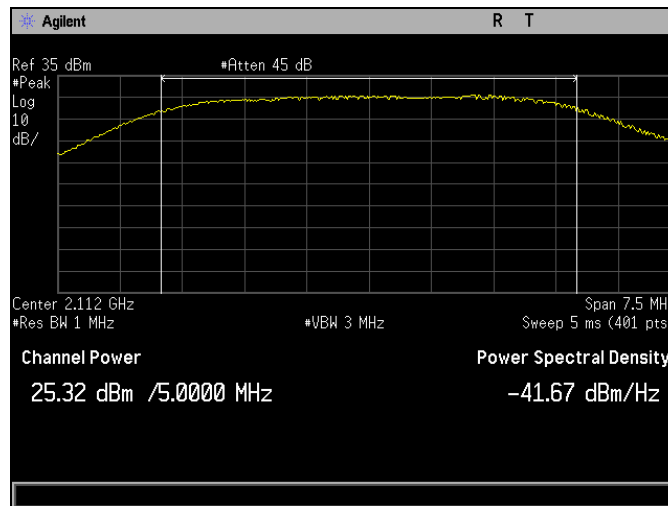
Plot 151. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Average, 5 MHz



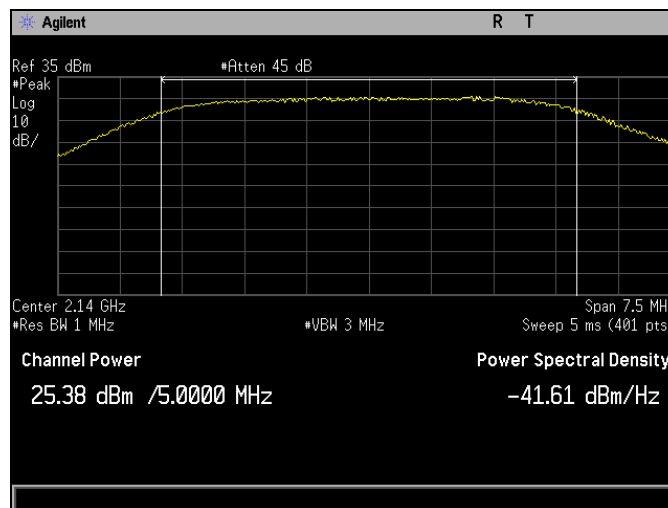
Plot 152. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Average, 5 MHz



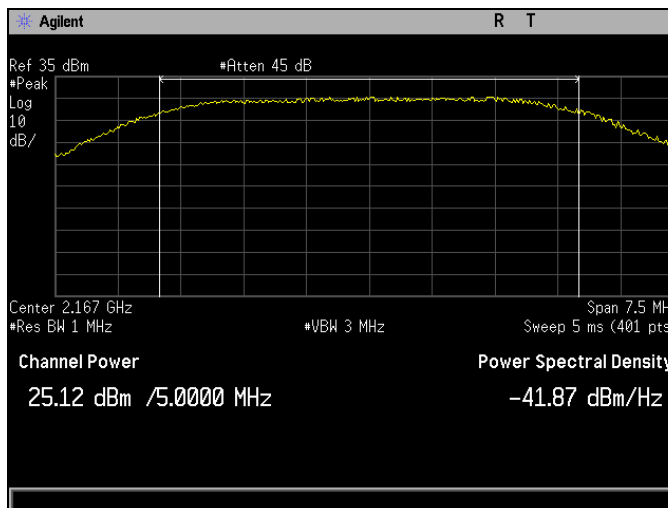
Plot 153. RF Output Power, QPSK, High Channel, Band 10, Port 1, Average, 5 MHz



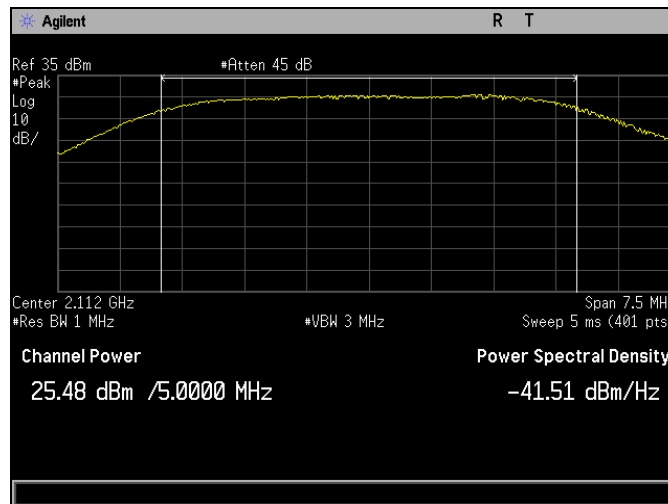
Plot 154. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Peak, 5 MHz



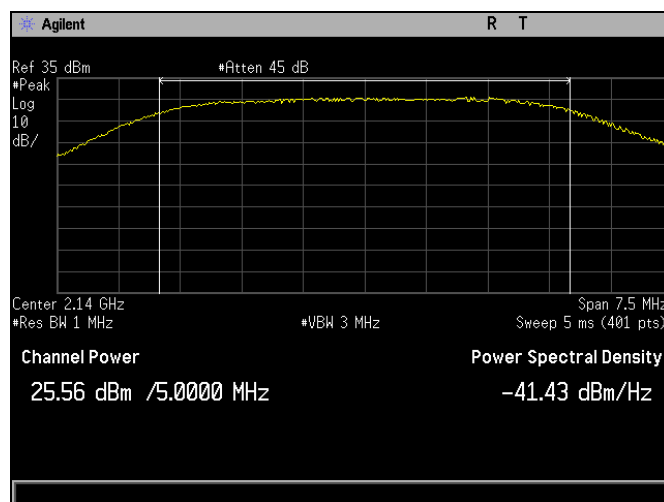
Plot 155. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Peak, 5 MHz



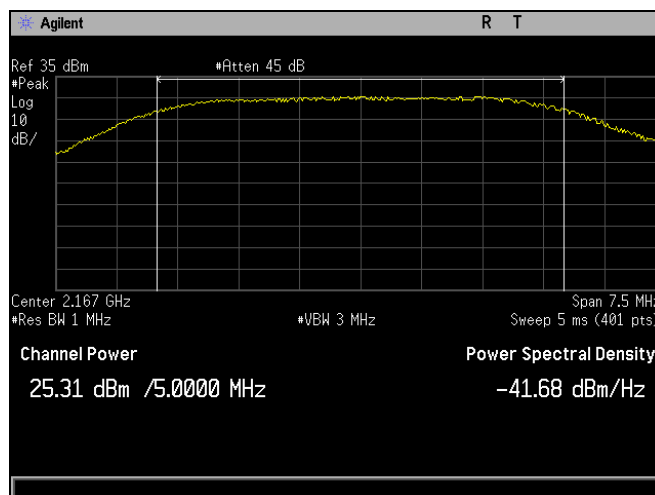
Plot 156. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Peak, 5 MHz



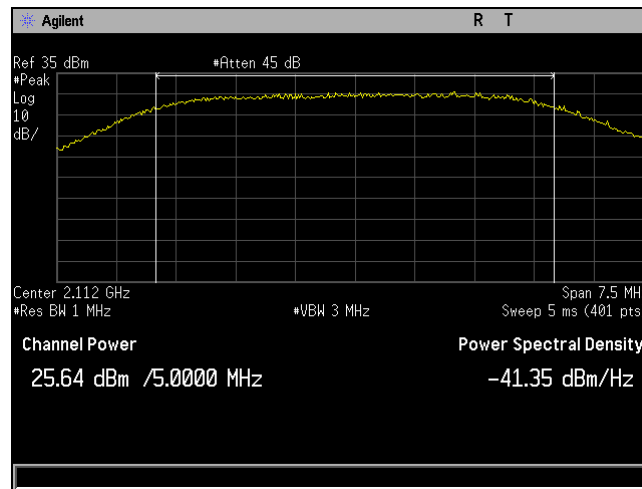
Plot 157. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Peak, 5 MHz



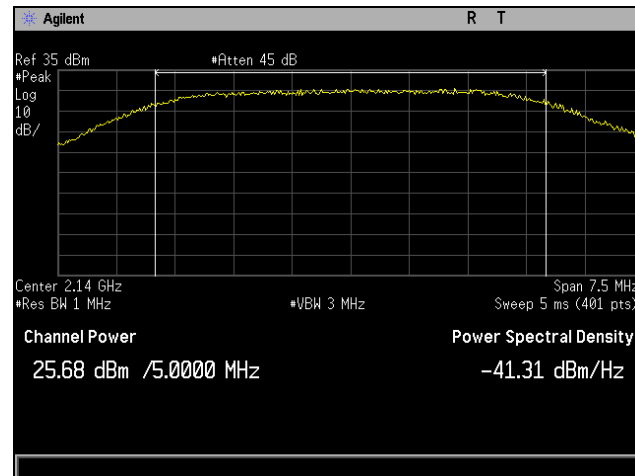
Plot 158. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Peak, 5 MHz



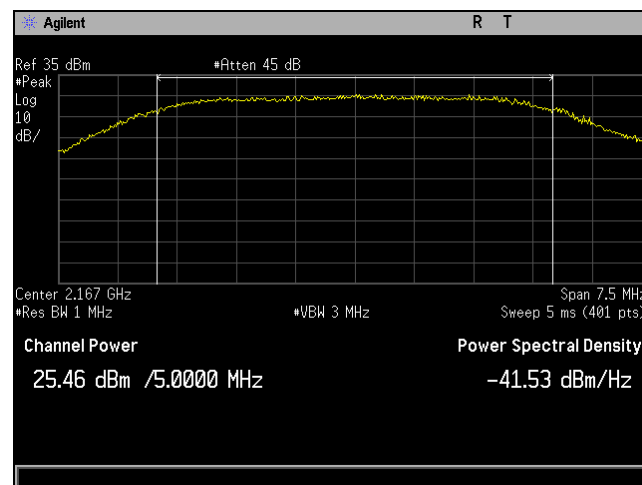
Plot 159. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Peak, 5 MHz



Plot 160. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Peak, 5 MHz

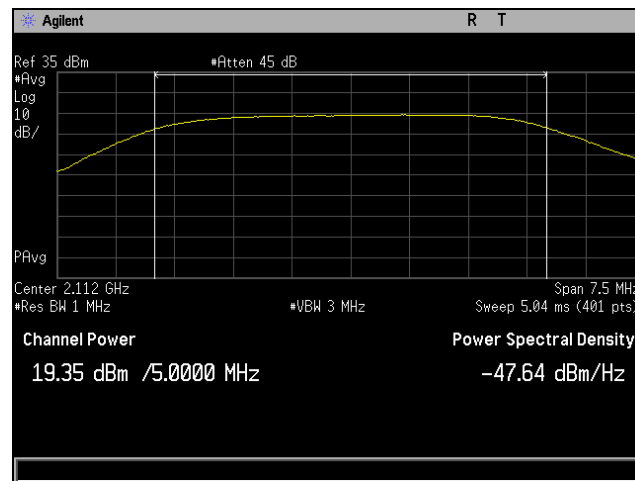


Plot 161. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Peak, 5 MHz

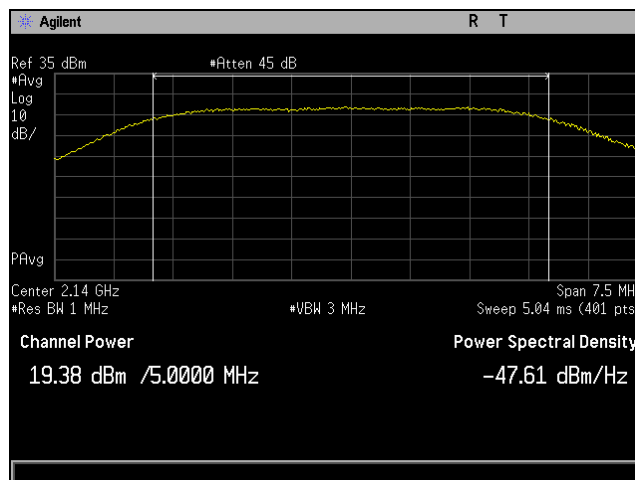


Plot 162. RF Output Power, QPSK, High Channel, Band 10, Port 1, Peak, 5 MHz

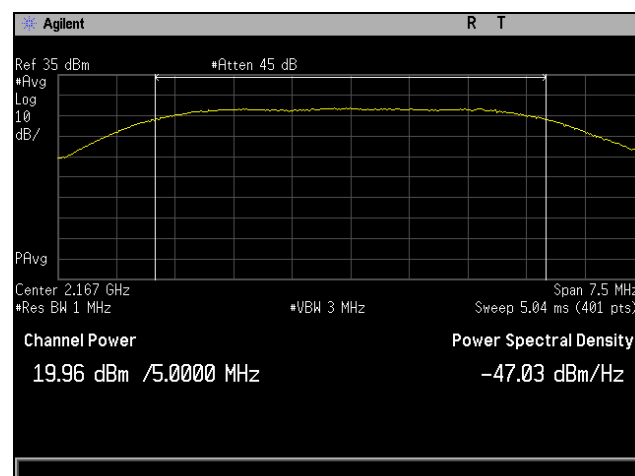
RF Output Power, Band 10, Port 2, 5 MHz



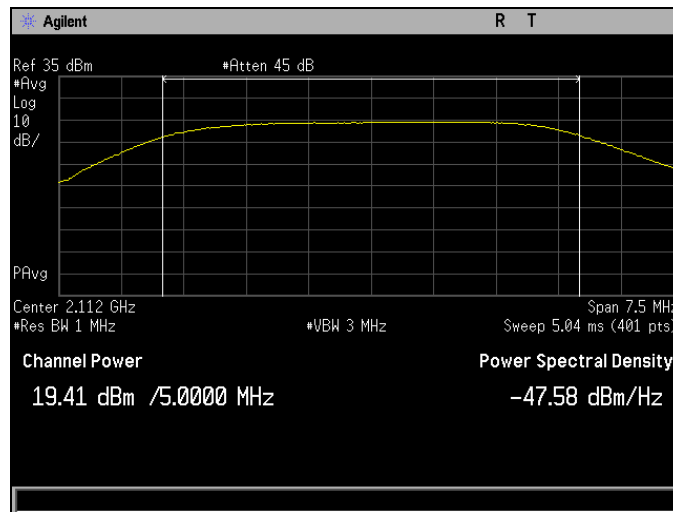
Plot 163. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Average, 5 MHz



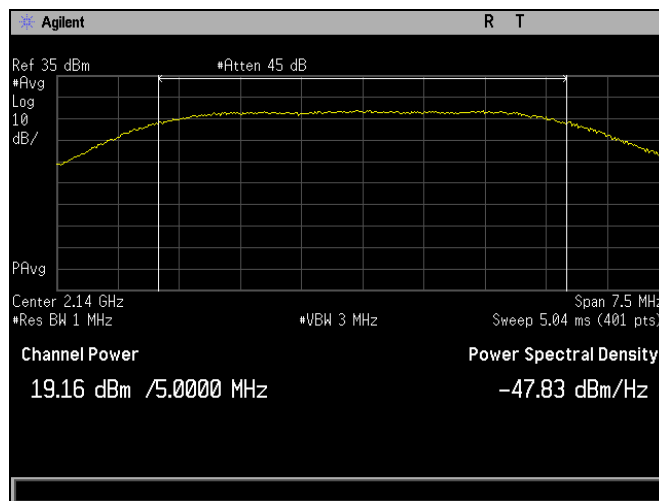
Plot 164. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Average, 5 MHz



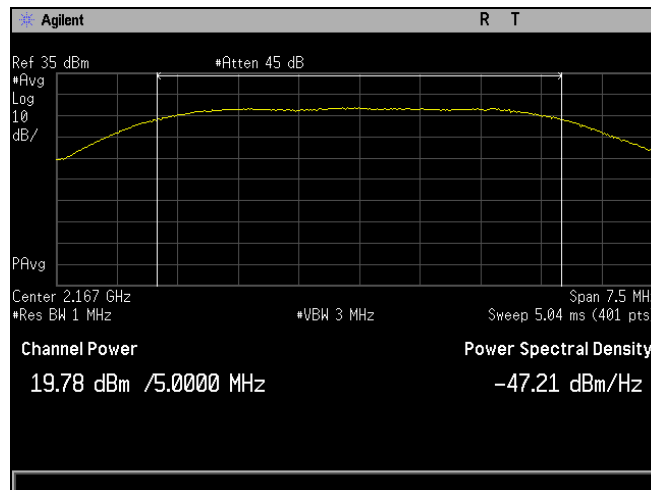
Plot 165. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Average, 5 MHz



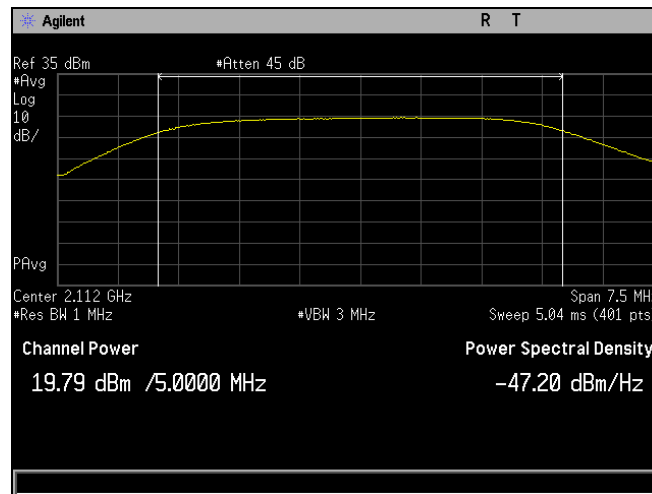
Plot 166. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Average, 5 MHz



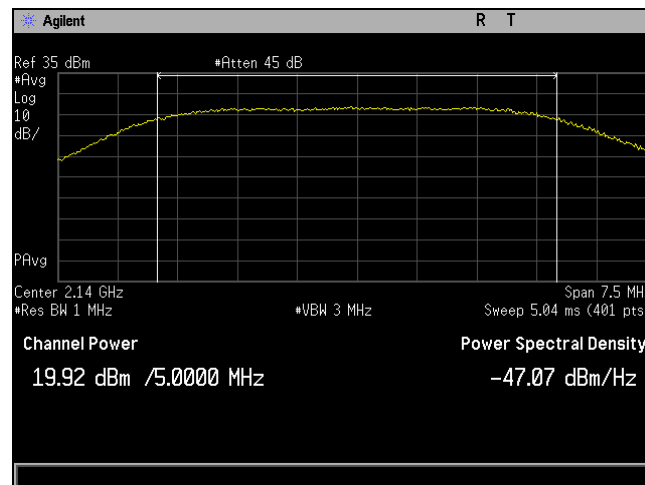
Plot 167. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Average, 5 MHz



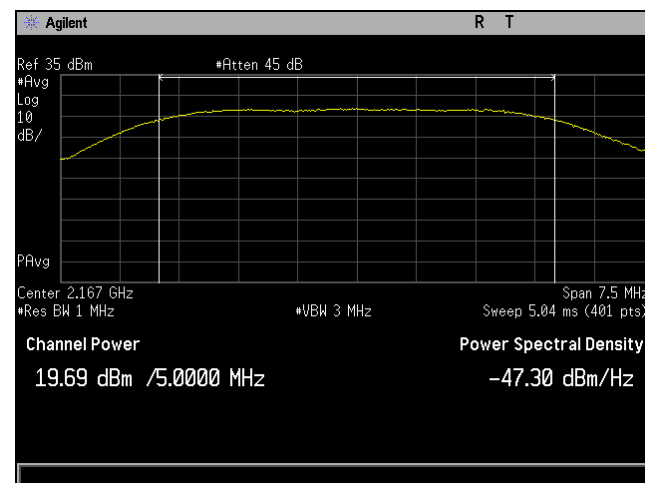
Plot 168. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Average, 5 MHz



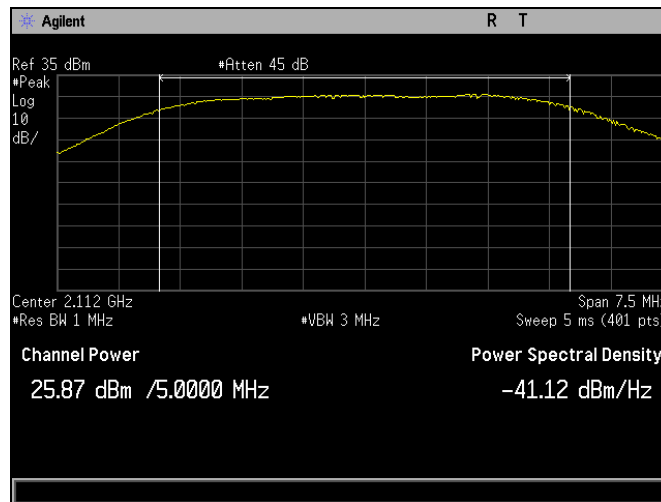
Plot 169. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Average, 5 MHz



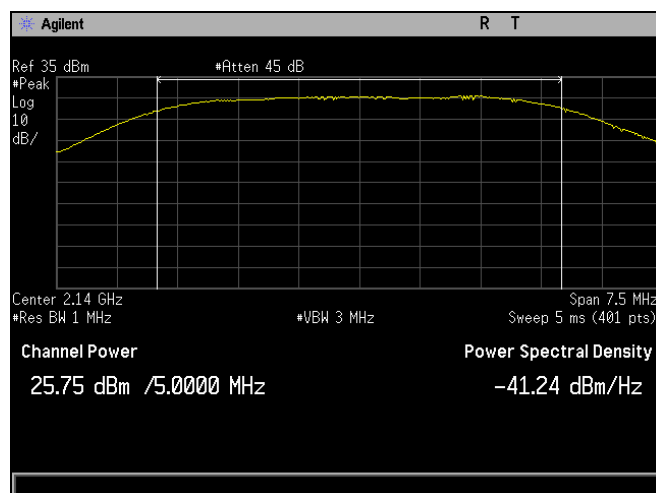
Plot 170. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Average, 5 MHz



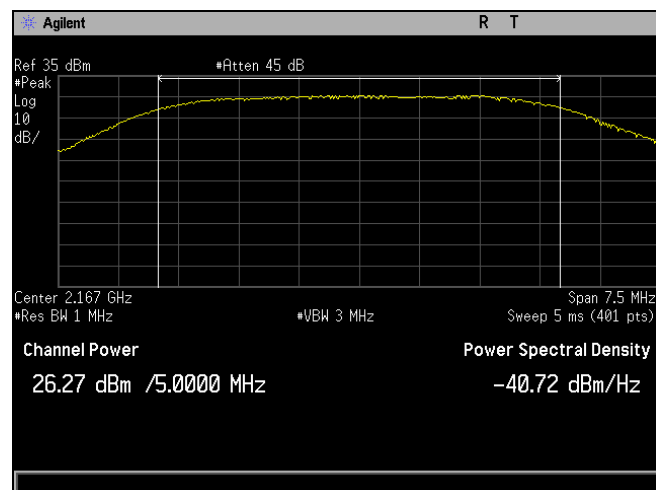
Plot 171. RF Output Power, QPSK, High Channel, Band 10, Port 2, Average, 5 MHz



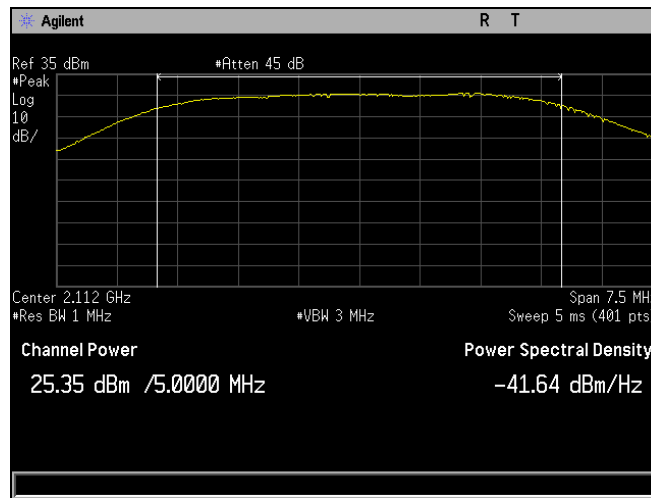
Plot 172. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Peak, 5 MHz



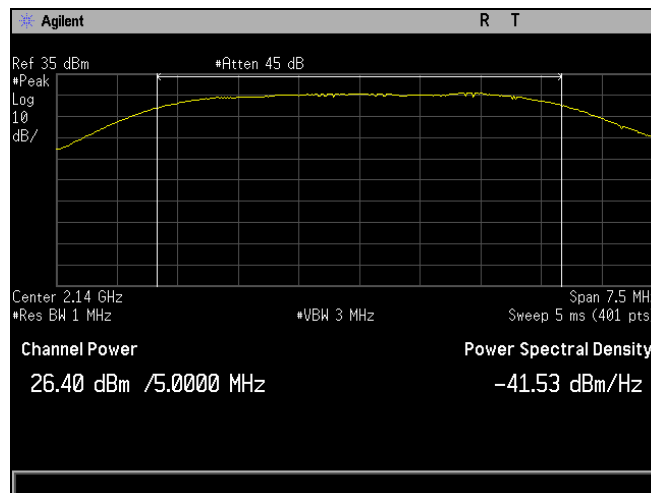
Plot 173. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Peak, 5 MHz



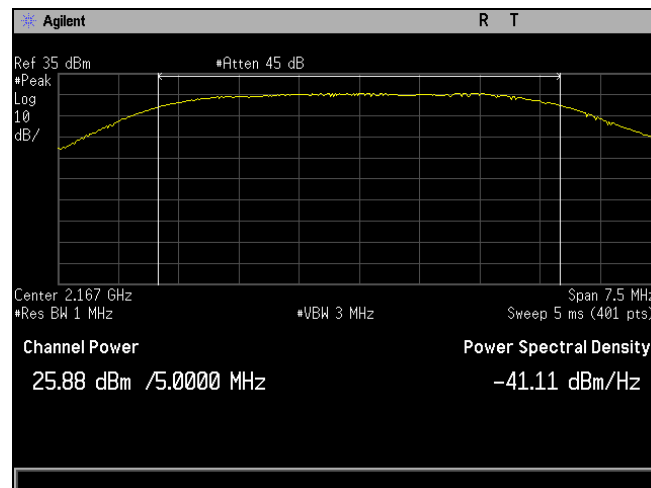
Plot 174. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Peak, 5 MHz



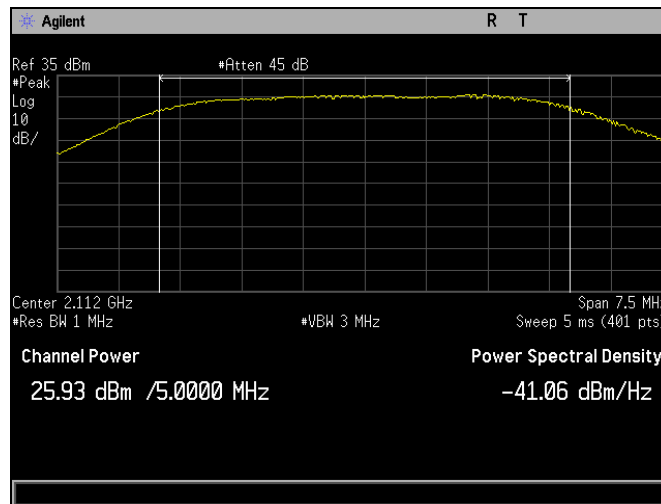
Plot 175. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Peak, 5 MHz



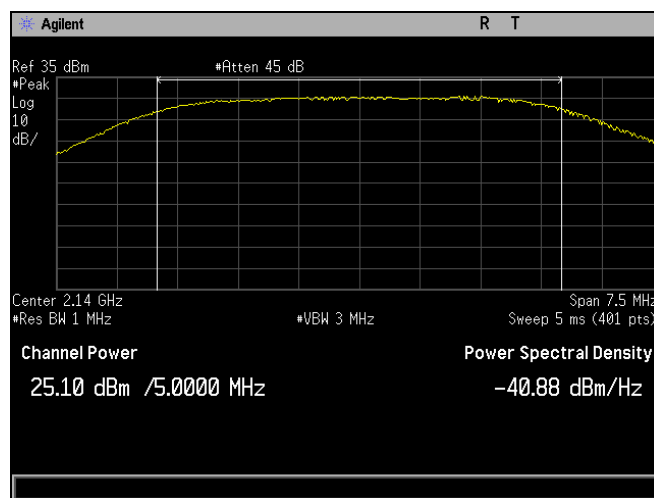
Plot 176. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Peak, 5 MHz



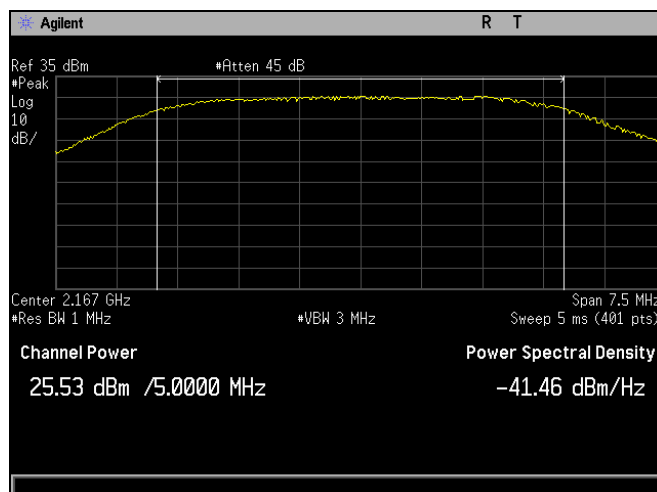
Plot 177. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Peak, 5 MHz



Plot 178. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Peak, 5 MHz

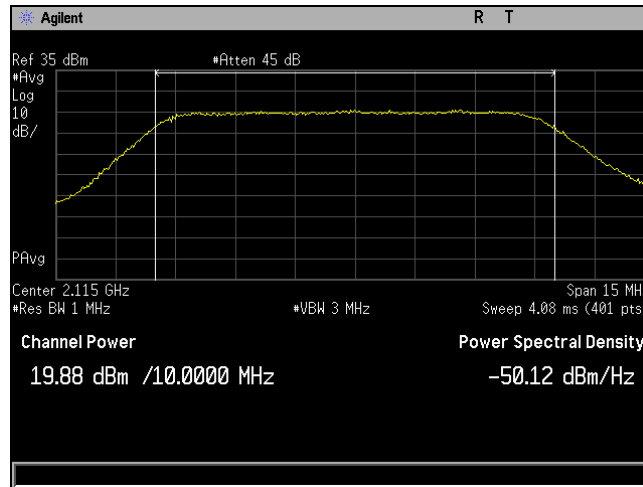


Plot 179. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Peak, 5 MHz

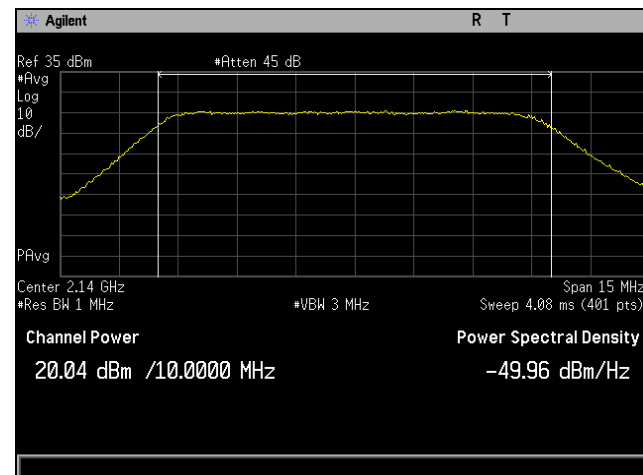


Plot 180. RF Output Power, QPSK, High Channel, Band 10, Port 2, Peak, 5 MHz

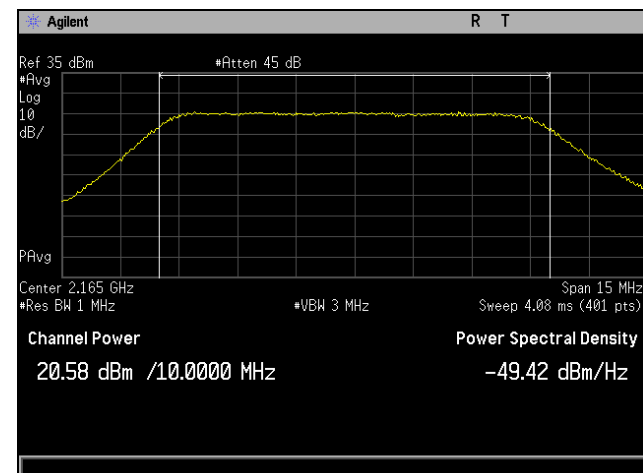
RF Output Power, Band 10, Port 1, 10 MHz



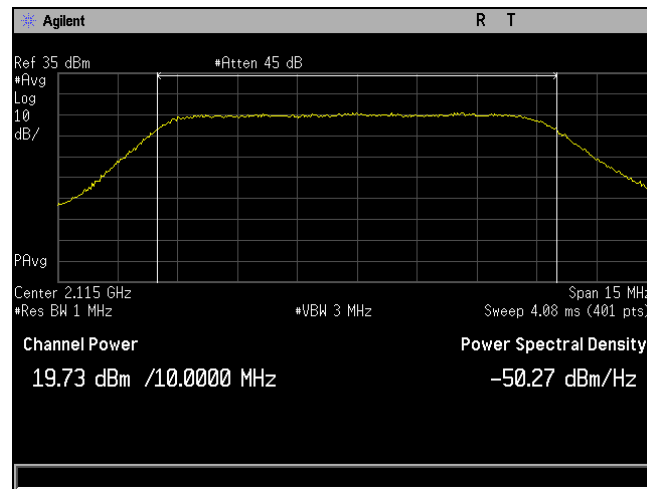
Plot 181. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Average, 10 MHz



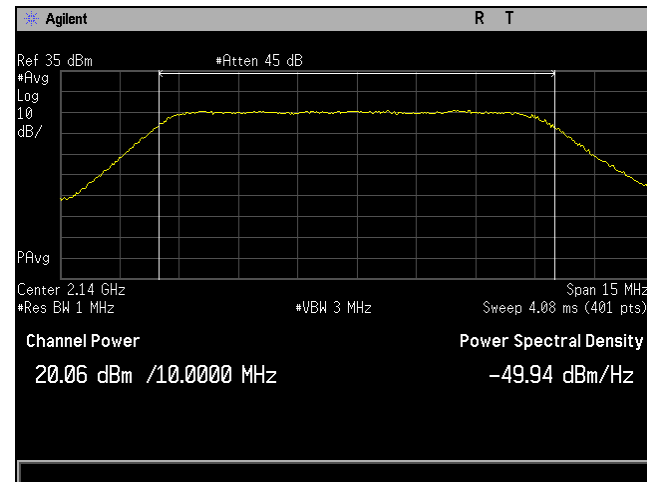
Plot 182. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Average, 10 MHz



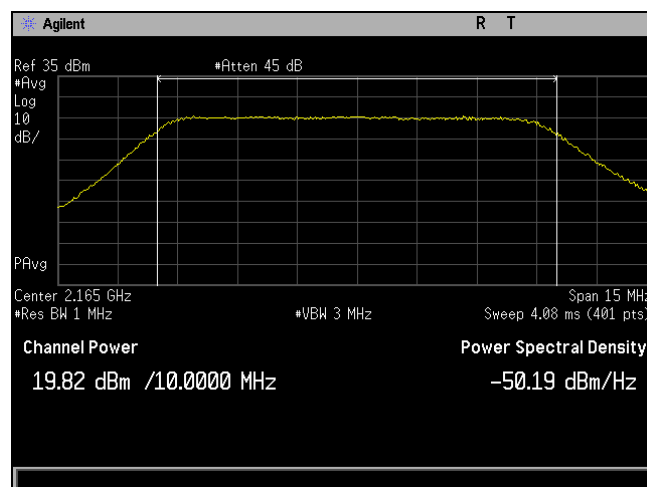
Plot 183. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Average, 10 MHz



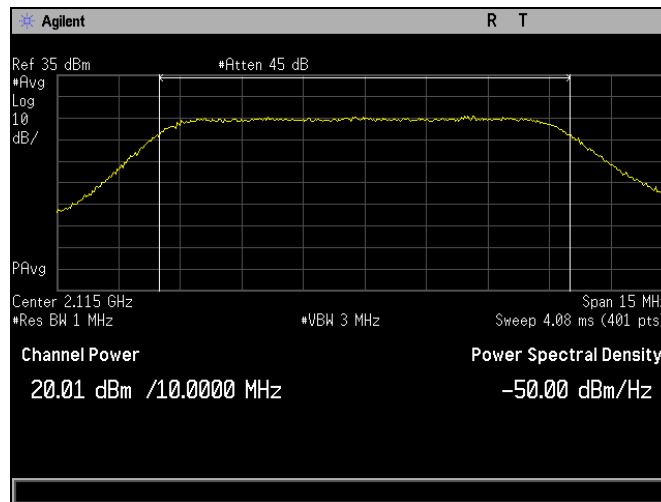
Plot 184. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Average, 10 MHz



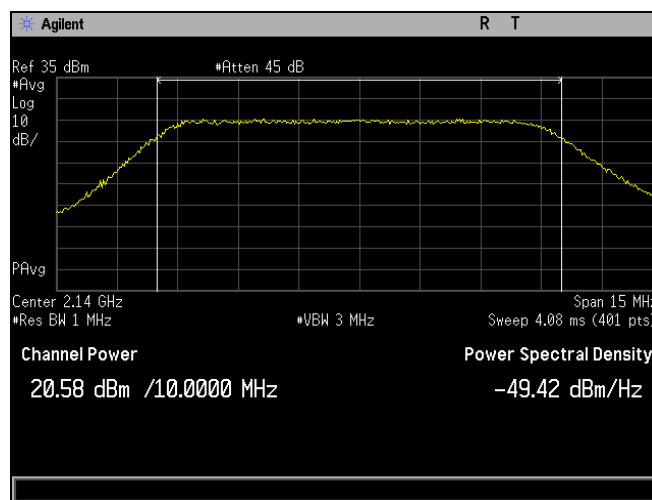
Plot 185. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Average, 10 MHz



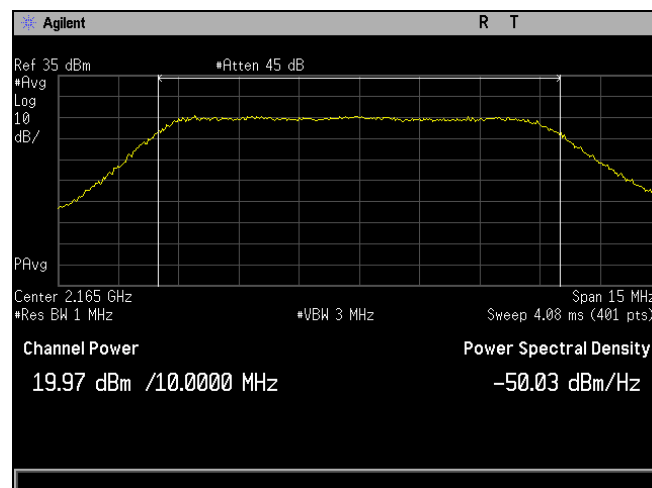
Plot 186. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Average, 10 MHz



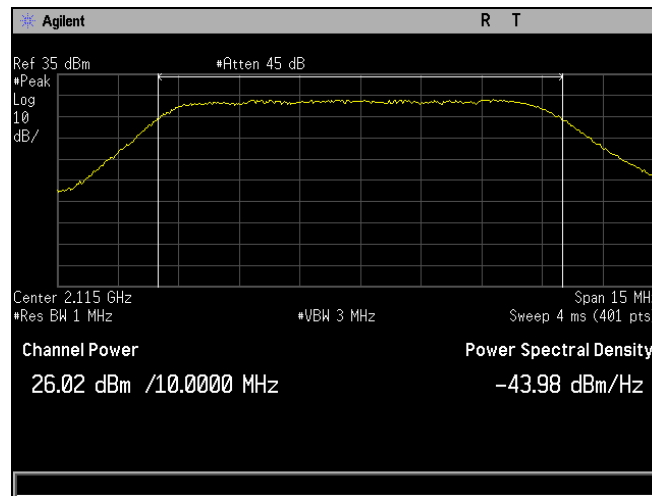
Plot 187. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Average, 10 MHz



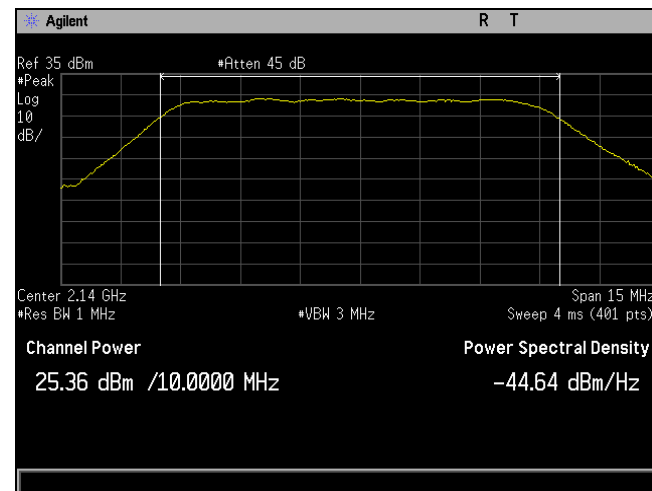
Plot 188. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Average, 10 MHz



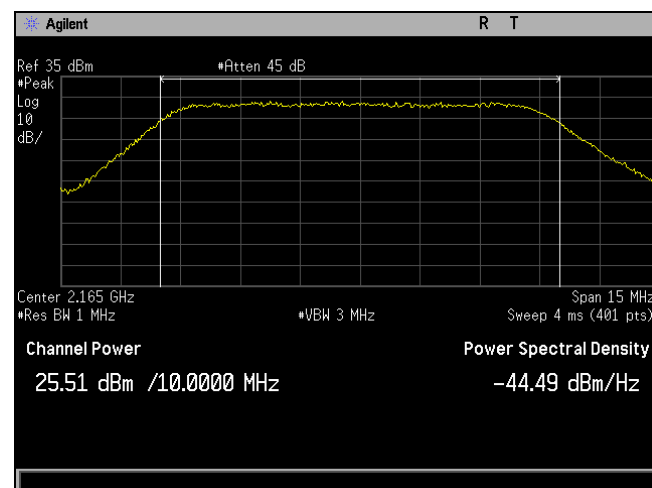
Plot 189. RF Output Power, QPSK, High Channel, Band 10, Port 1, Average, 10 MHz



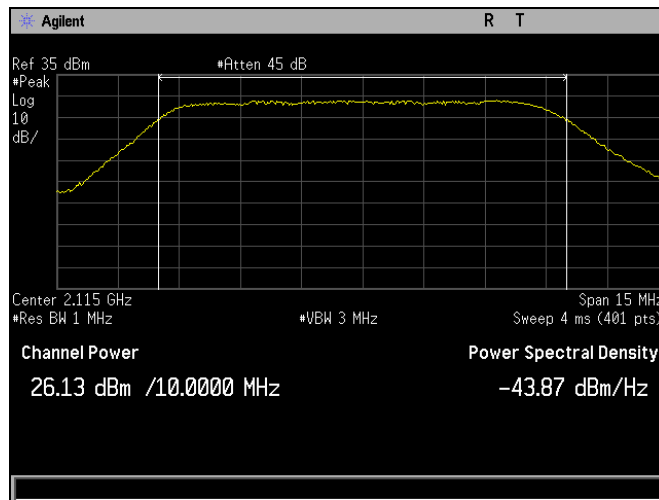
Plot 190. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Peak, 10 MHz



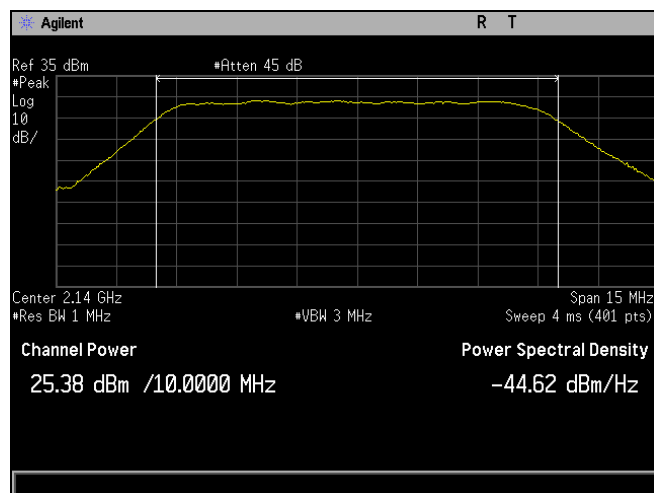
Plot 191. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Peak, 10 MHz



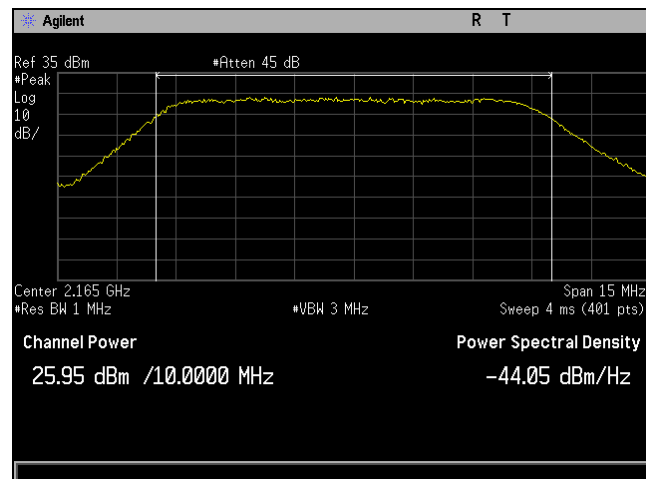
Plot 192. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Peak, 10 MHz



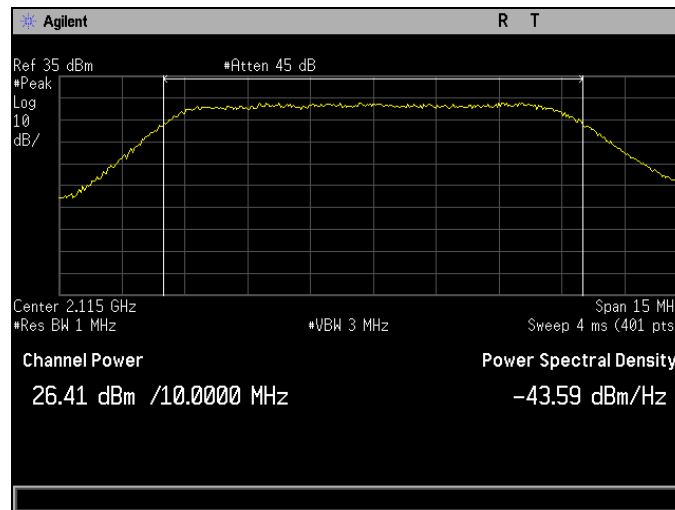
Plot 193. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Peak, 10 MHz



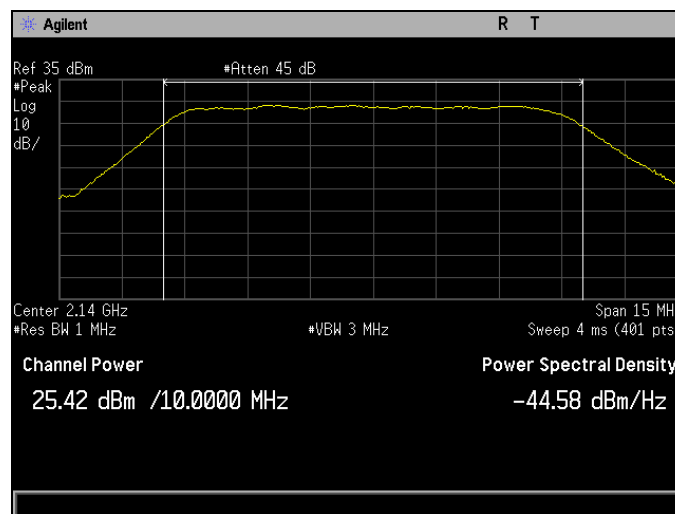
Plot 194. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Peak, 10 MHz



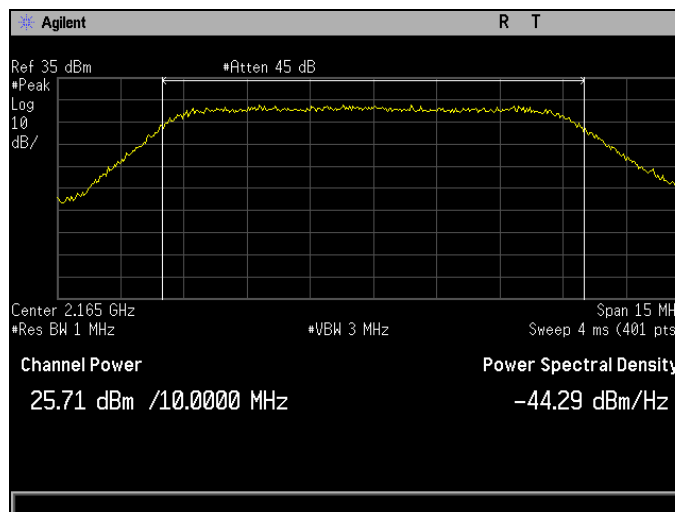
Plot 195. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Peak, 10 MHz



Plot 196. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Peak, 10 MHz

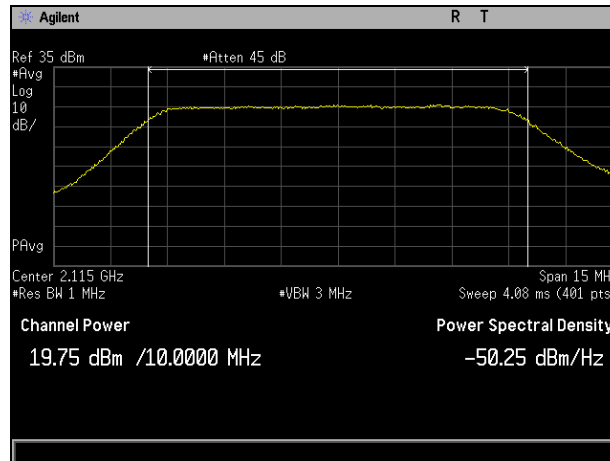


Plot 197. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Peak, 10 MHz

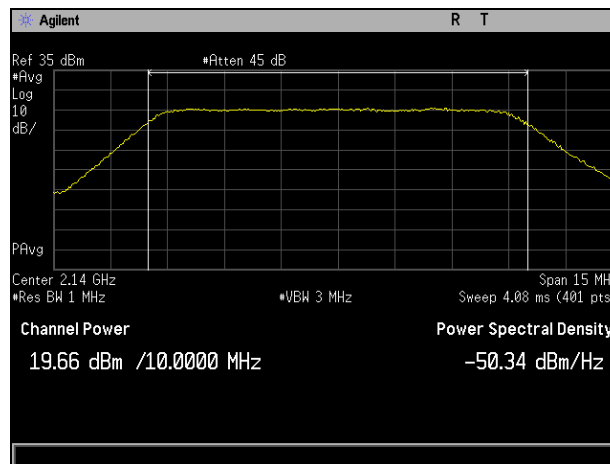


Plot 198. RF Output Power, QPSK, High Channel, Band 10, Port 1, Peak, 10 MHz

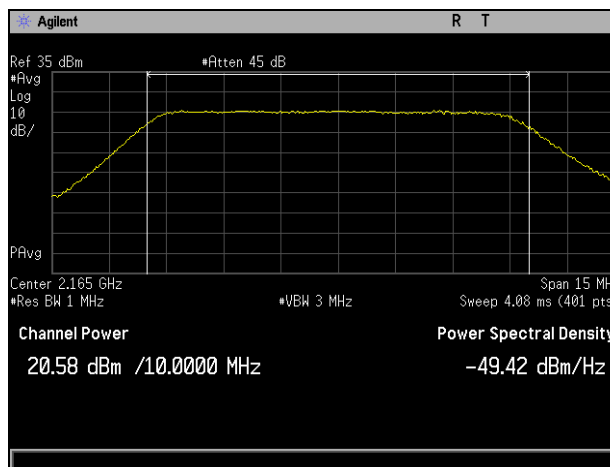
RF Output Power, Band 10, Port 2, 10 MHz



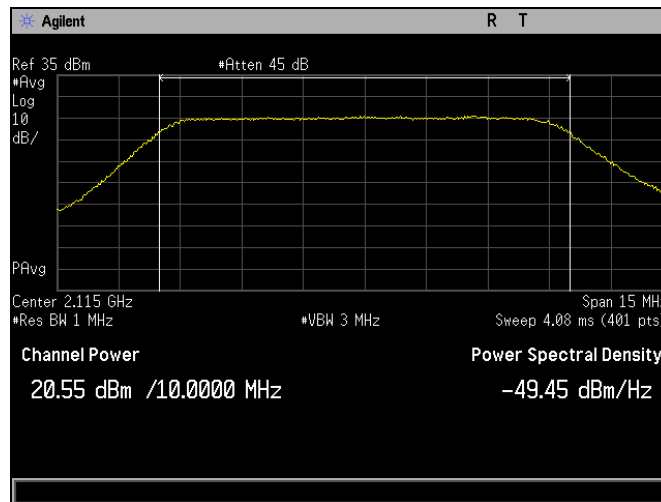
Plot 199. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Average, 10 MHz



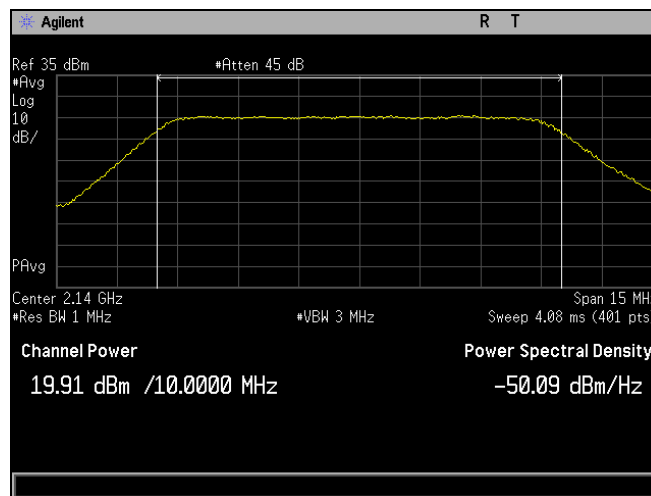
Plot 200. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Average, 10 MHz



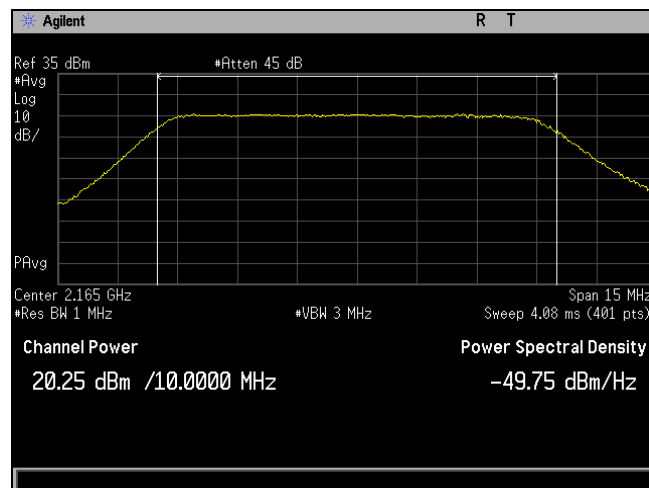
Plot 201. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Average, 10 MHz



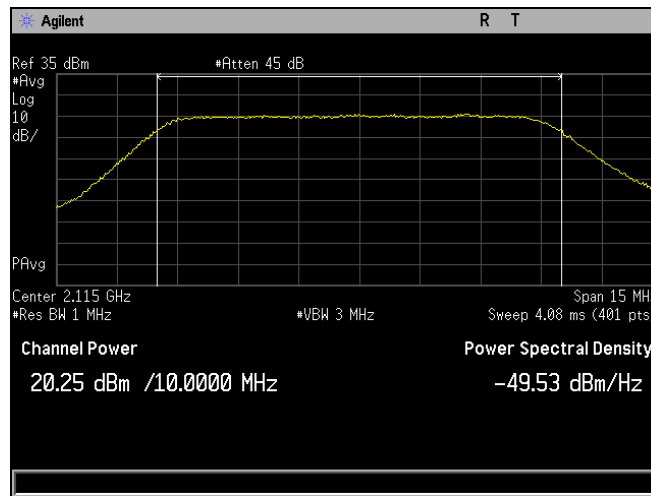
Plot 202. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Average, 10 MHz



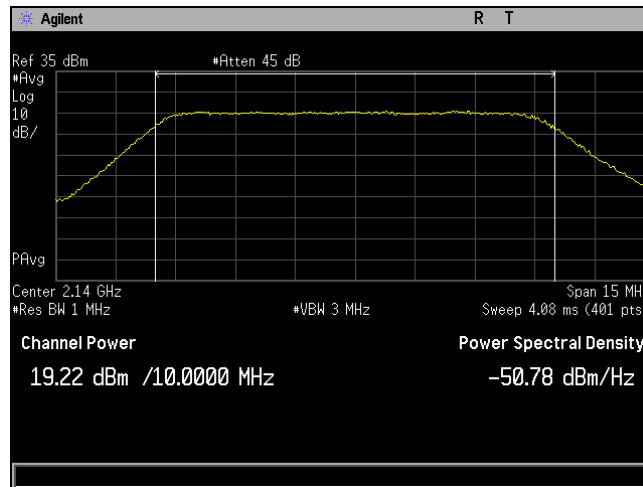
Plot 203. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Average, 10 MHz



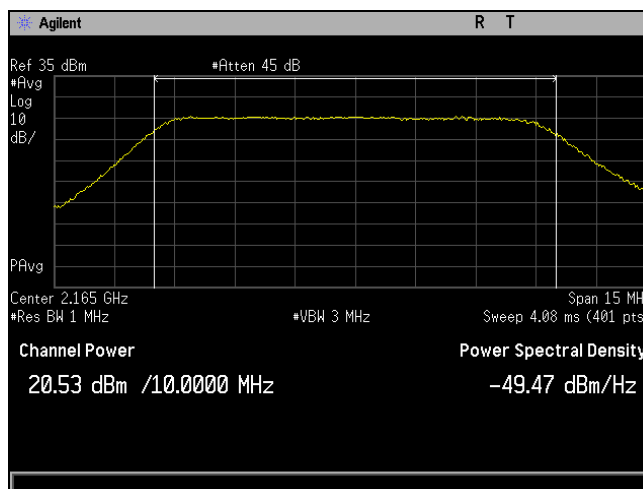
Plot 204. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Average, 10 MHz



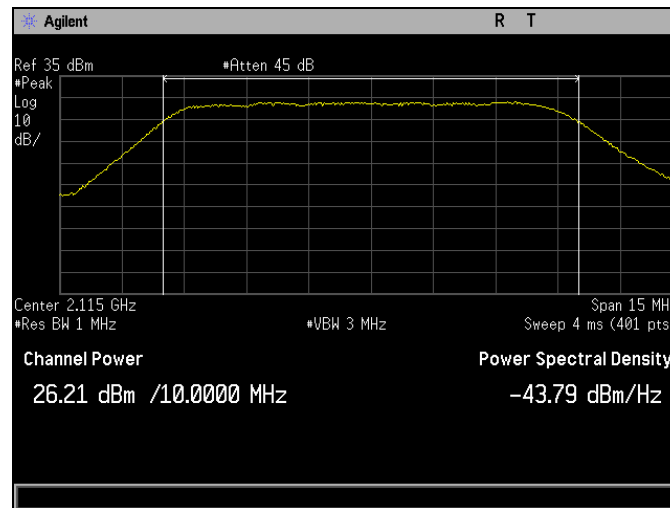
Plot 205. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Average, 10 MHz



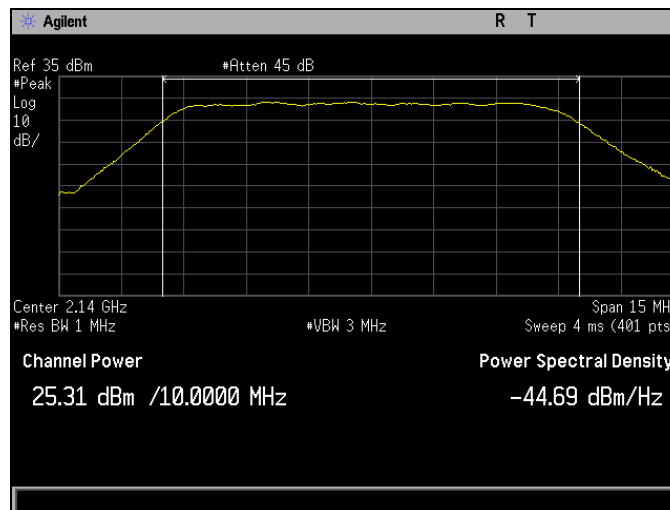
Plot 206. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Average, 10 MHz



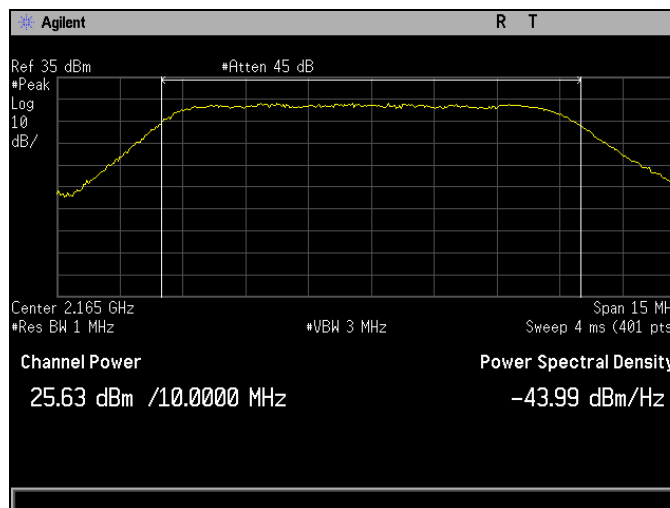
Plot 207. RF Output Power, QPSK, High Channel, Band 10, Port 2, Average, 10 MHz



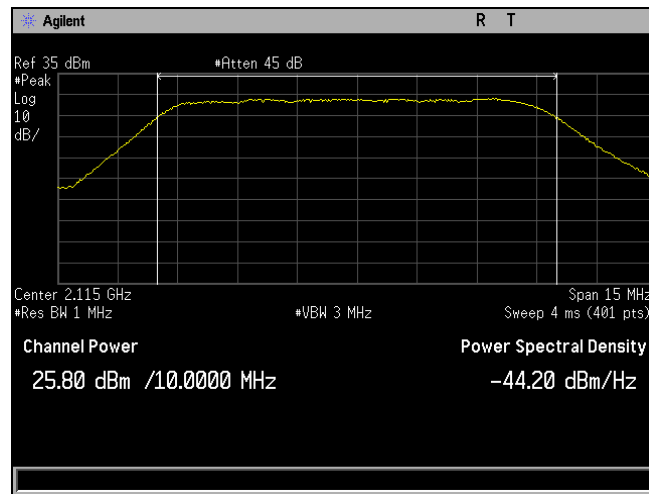
Plot 208. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Peak, 10 MHz



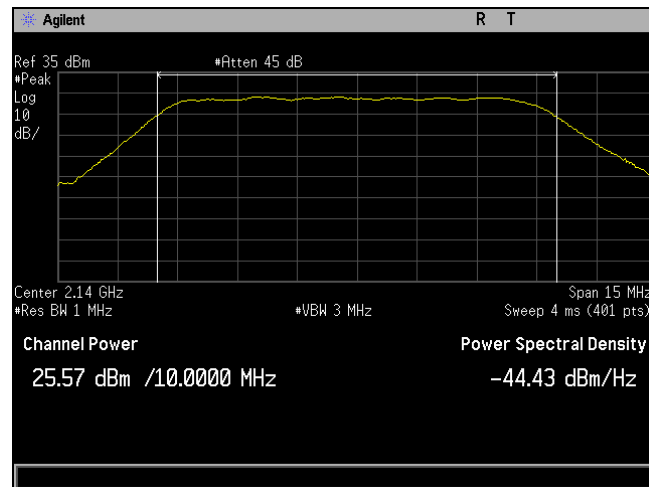
Plot 209. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Peak, 10 MHz



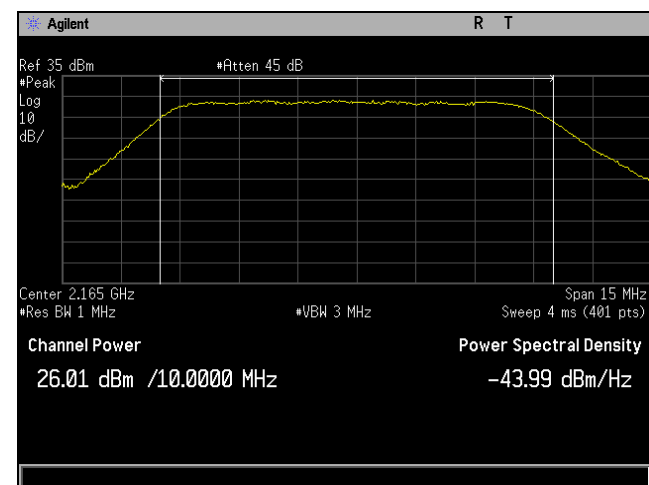
Plot 210. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Peak, 10 MHz



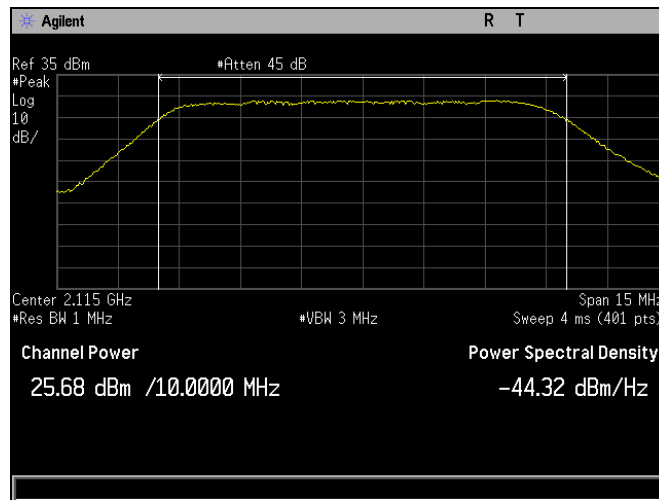
Plot 211. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Peak, 10 MHz



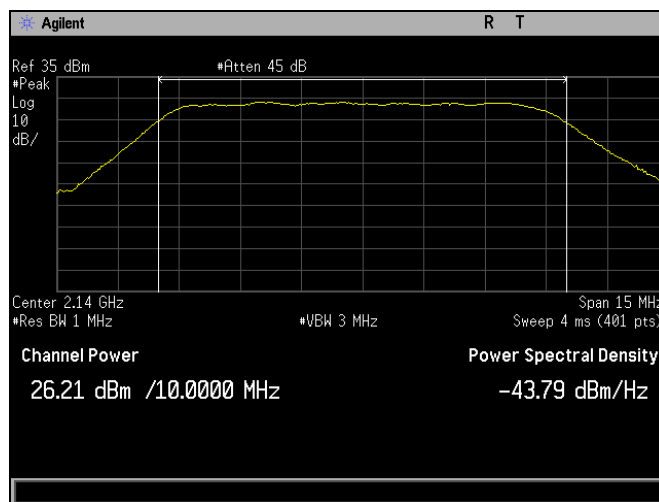
Plot 212. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Peak, 10 MHz



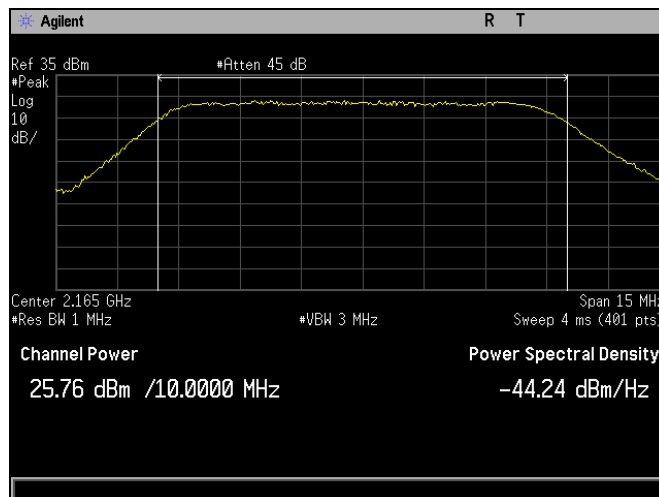
Plot 213. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Peak, 10 MHz



Plot 214. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Peak, 10 MHz

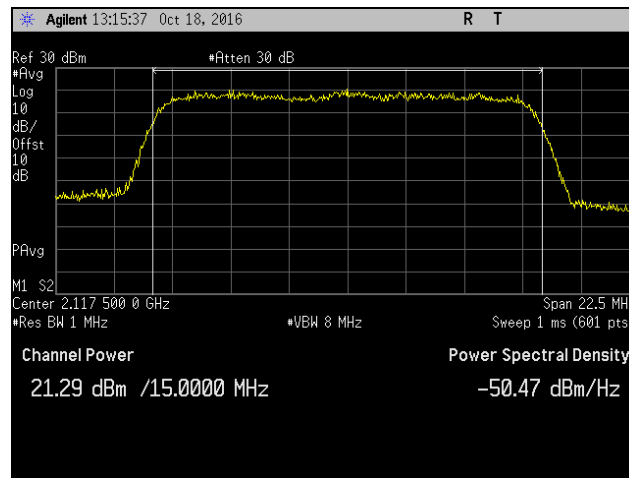


Plot 215. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Peak, 10 MHz

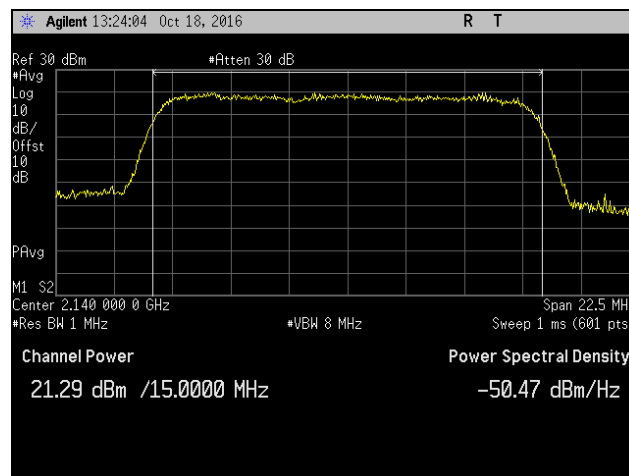


Plot 216. RF Output Power, QPSK, High Channel, Band 10, Port 2, Peak, 10 MHz

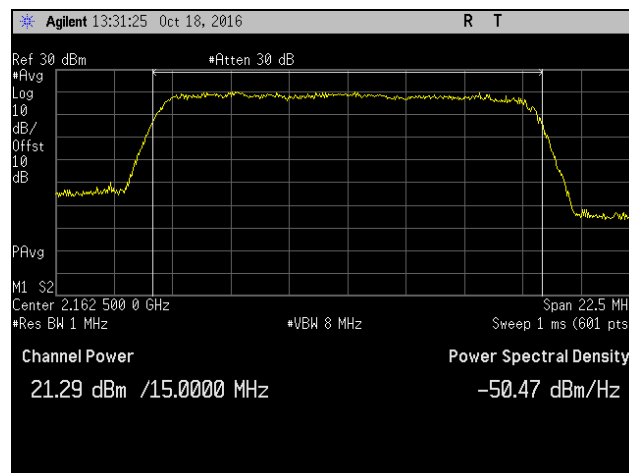
RF Output Power, Band 10, Port 1, 15 MHz



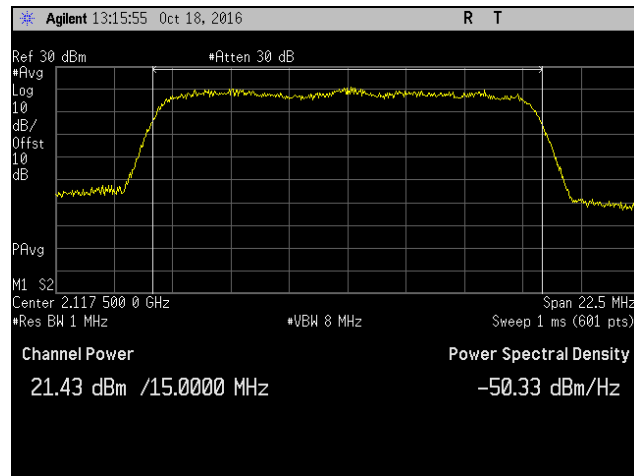
Plot 217. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Average, 15 MHz



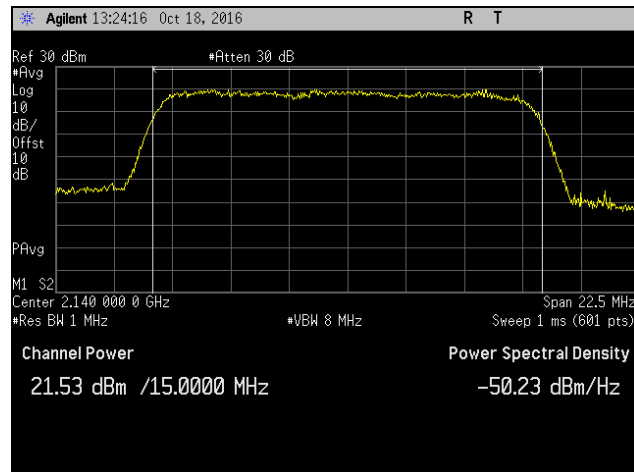
Plot 218. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Average, 15 MHz



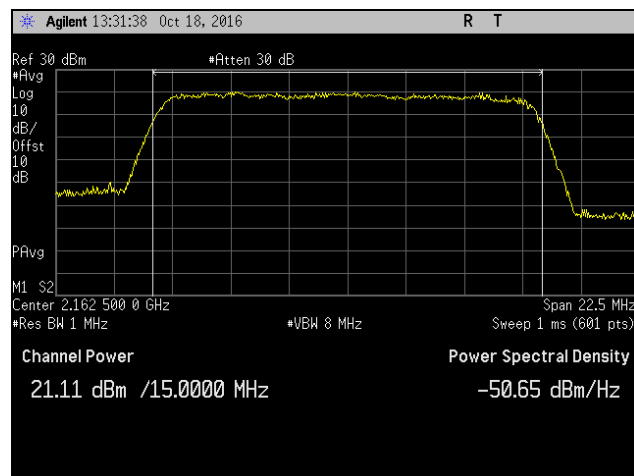
Plot 219. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Average, 15 MHz



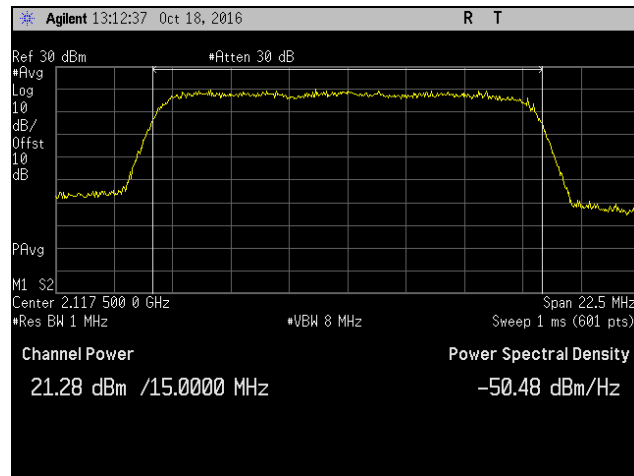
Plot 220. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Average, 15 MHz



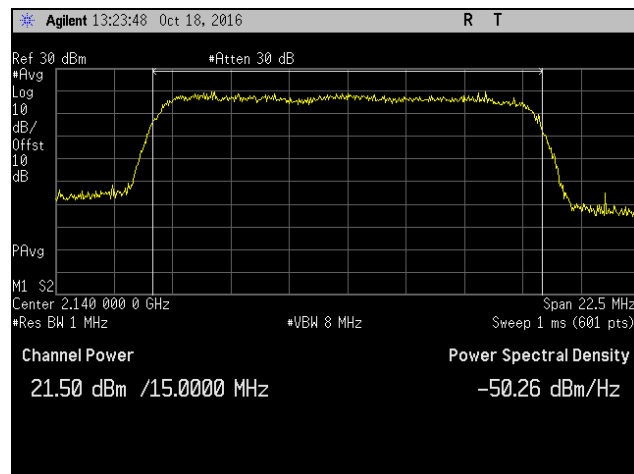
Plot 221. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Average, 15 MHz



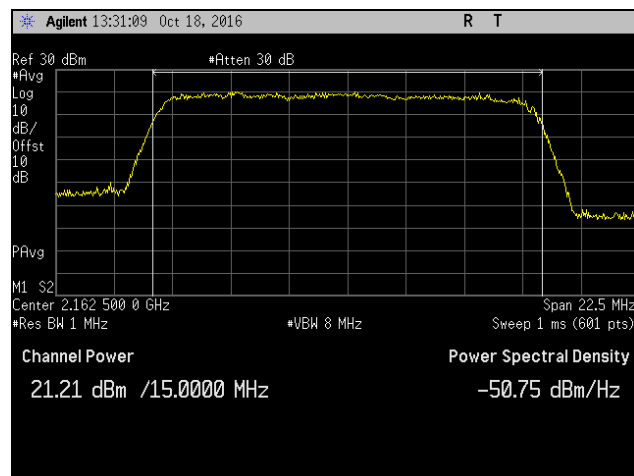
Plot 222. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Average, 15 MHz



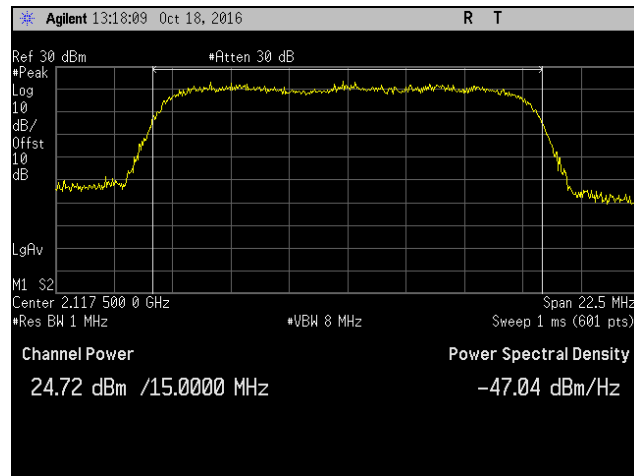
Plot 223. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Average, 15 MHz



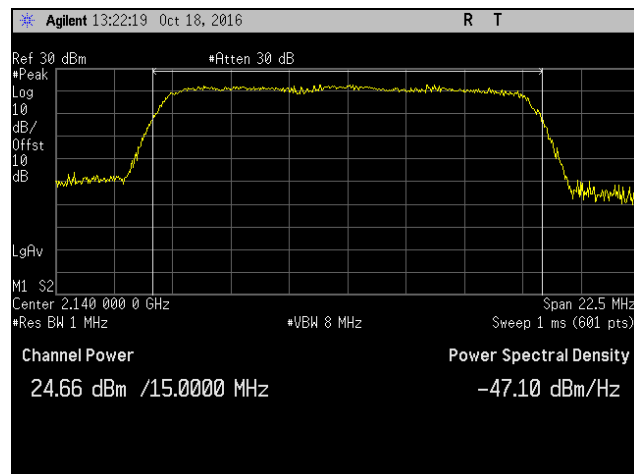
Plot 224. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Average, 15 MHz



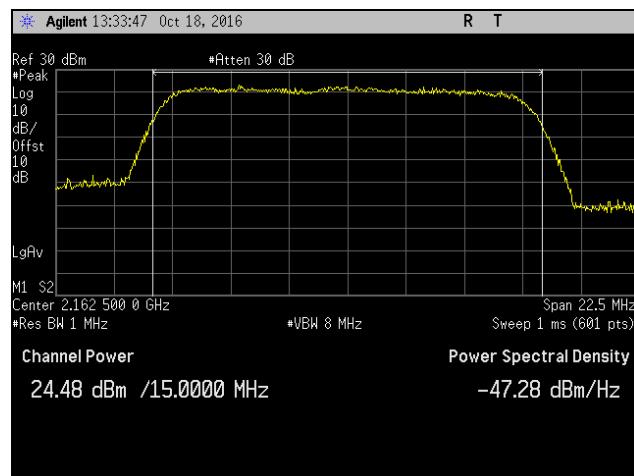
Plot 225. RF Output Power, QPSK, High Channel, Band 10, Port 1, Average, 15 MHz



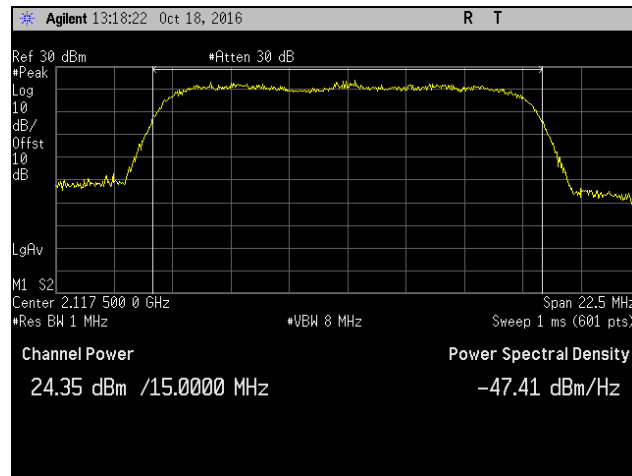
Plot 226. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Peak, 15 MHz



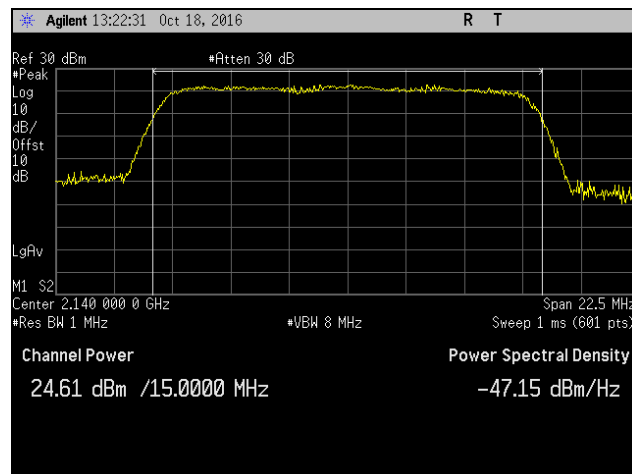
Plot 227. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Peak, 15 MHz



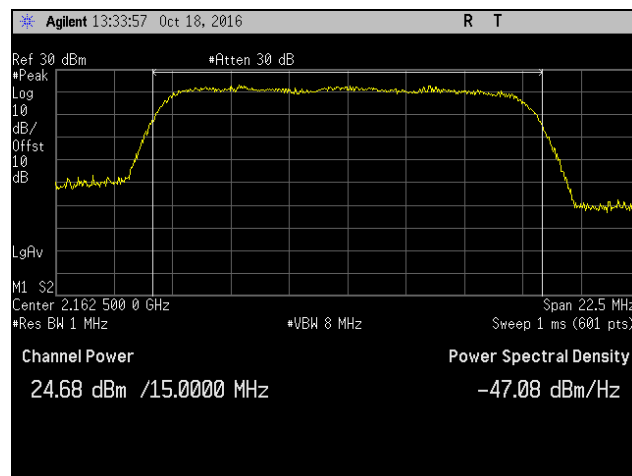
Plot 228. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Peak, 15 MHz



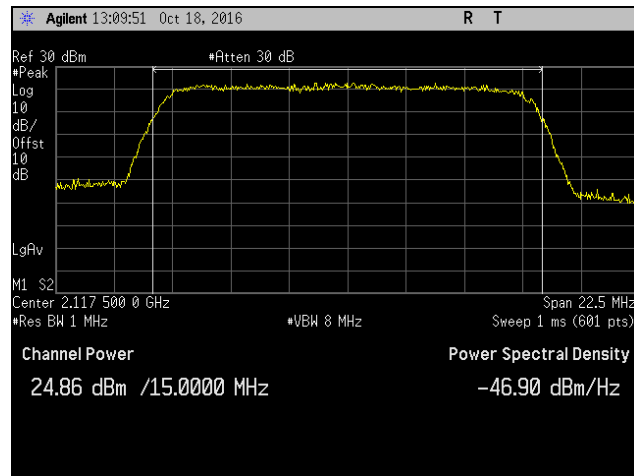
Plot 229. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Peak, 15 MHz



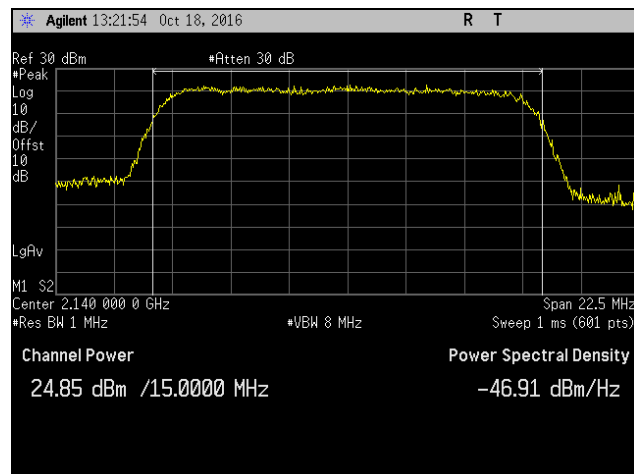
Plot 230. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Peak, 15 MHz



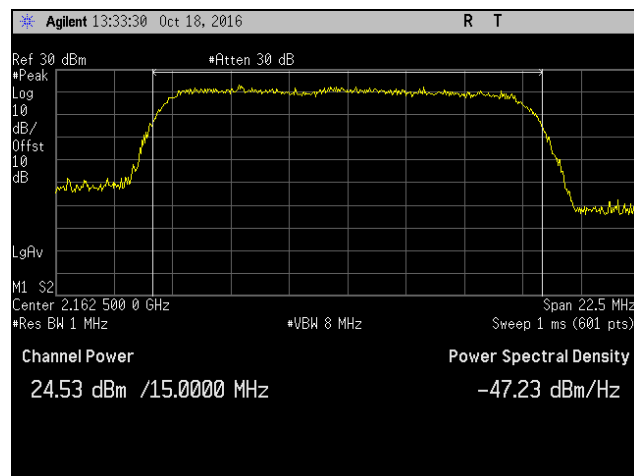
Plot 231. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Peak, 15 MHz



Plot 232. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Peak, 15 MHz

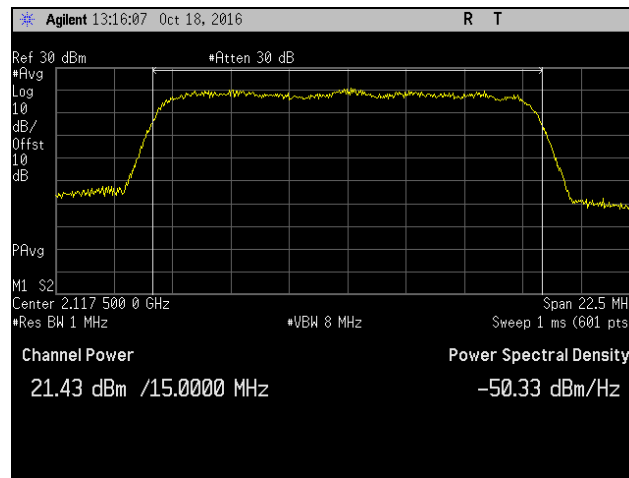


Plot 233. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Peak, 15 MHz

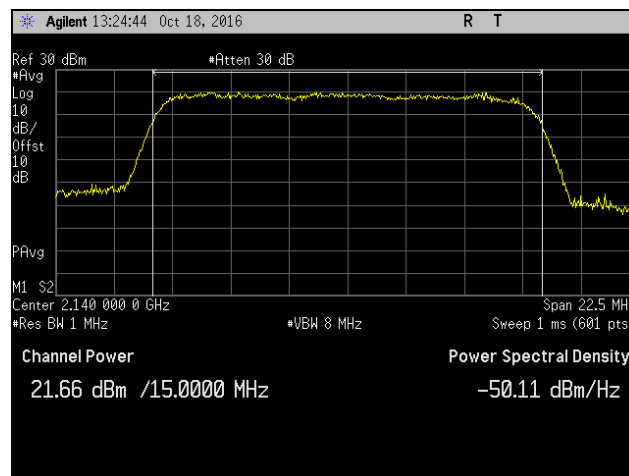


Plot 234. RF Output Power, QPSK, High Channel, Band 10, Port 1, Peak, 15 MHz

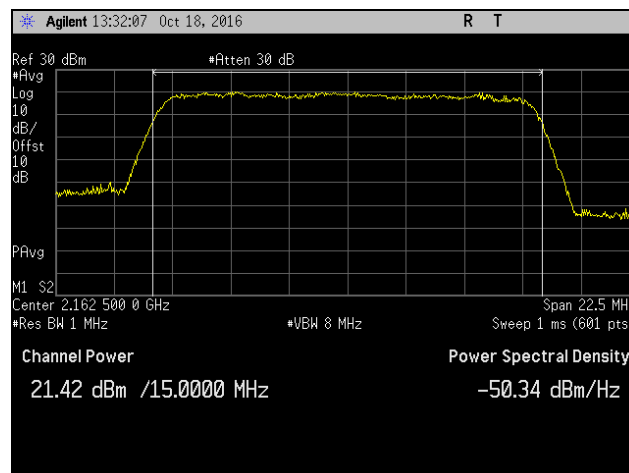
RF Output Power, Band 10, Port 2, 15 MHz



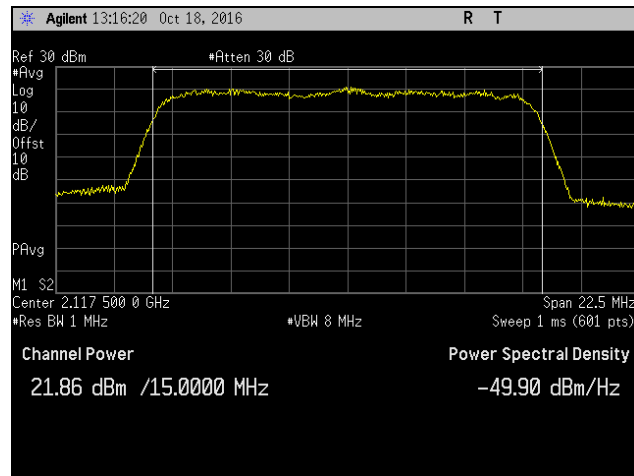
Plot 235. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Average, 15 MHz



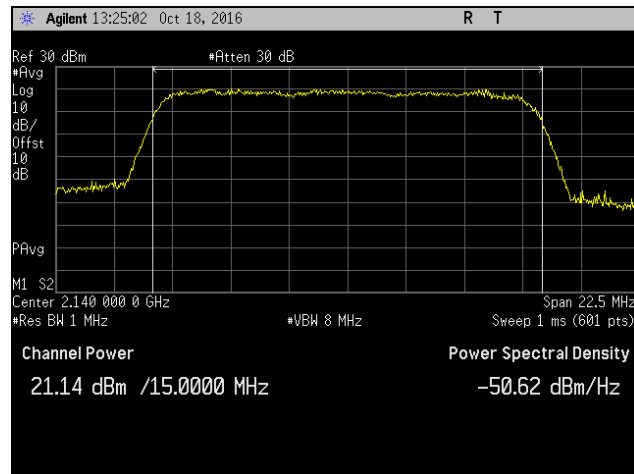
Plot 236. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Average, 15 MHz



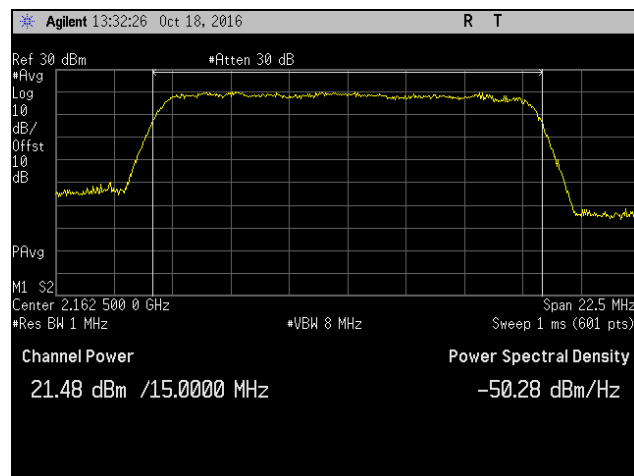
Plot 237. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Average, 15 MHz



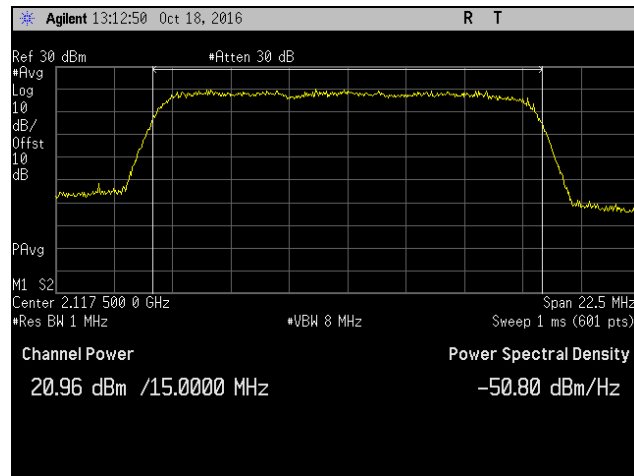
Plot 238. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Average, 15 MHz



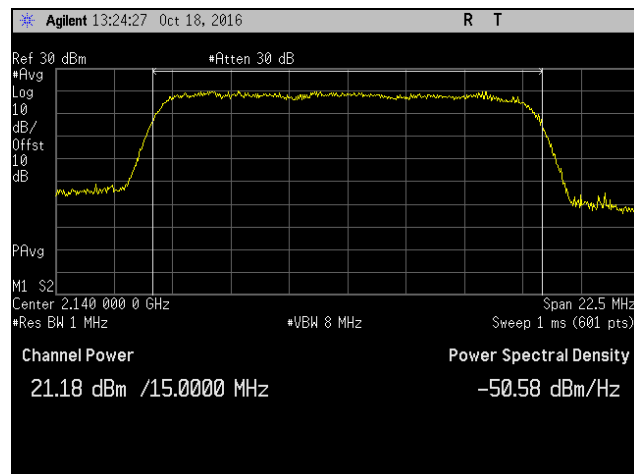
Plot 239. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Average, 15 MHz



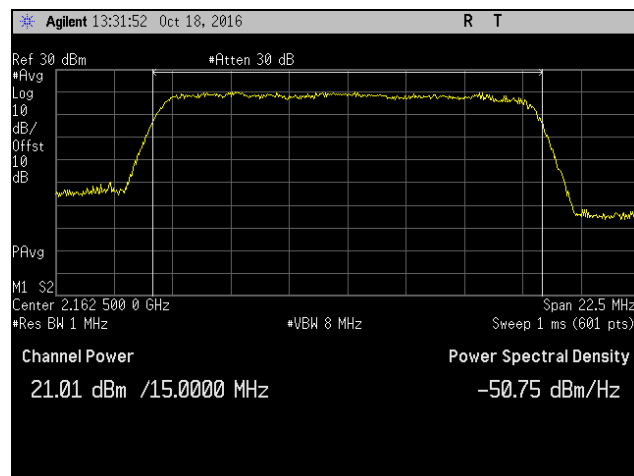
Plot 240. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Average, 15 MHz



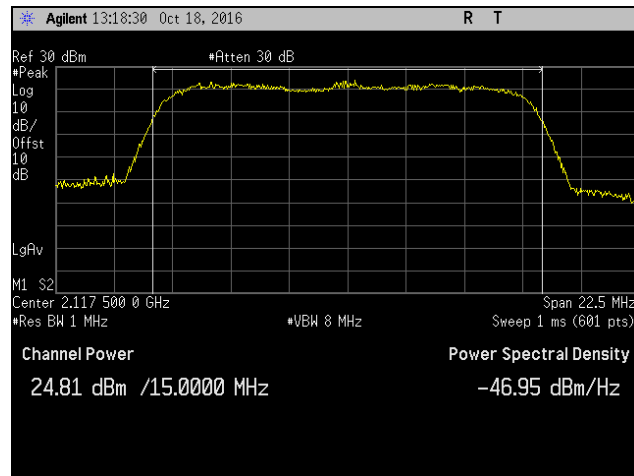
Plot 241. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Average, 15 MHz



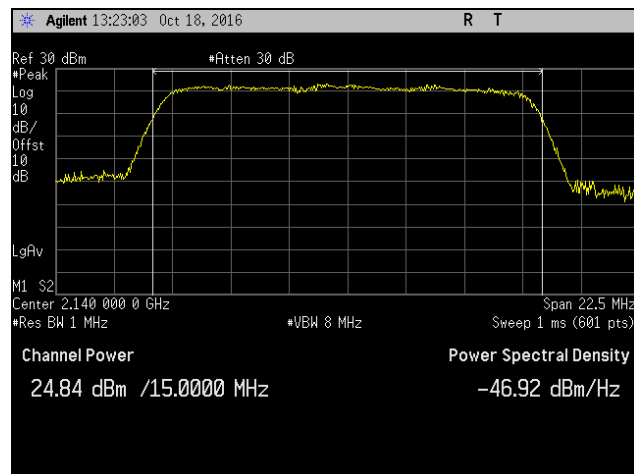
Plot 242. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Average, 15 MHz



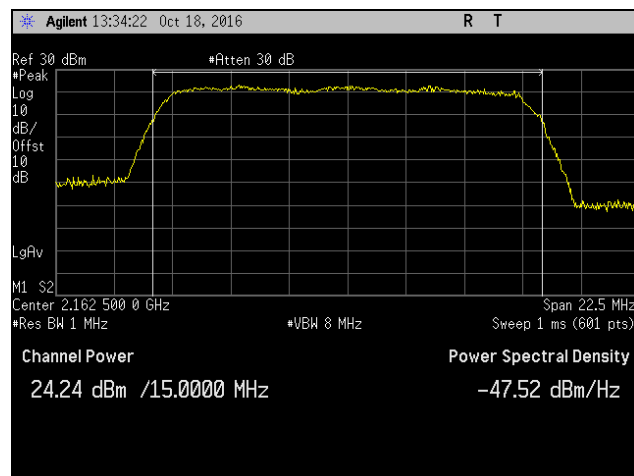
Plot 243. RF Output Power, QPSK, High Channel, Band 10, Port 2, Average, 15 MHz



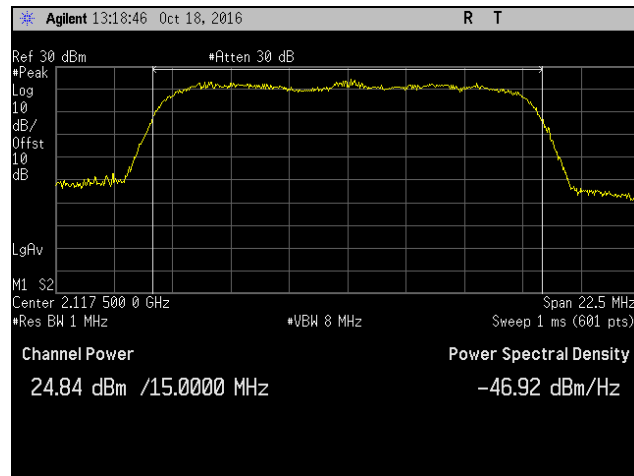
Plot 244. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Peak, 15 MHz



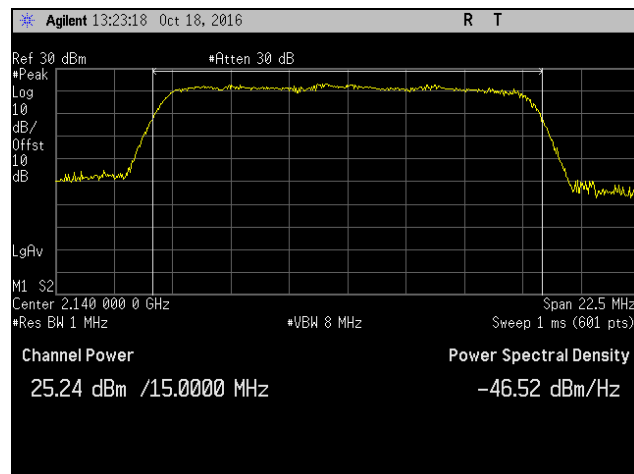
Plot 245. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Peak, 15 MHz



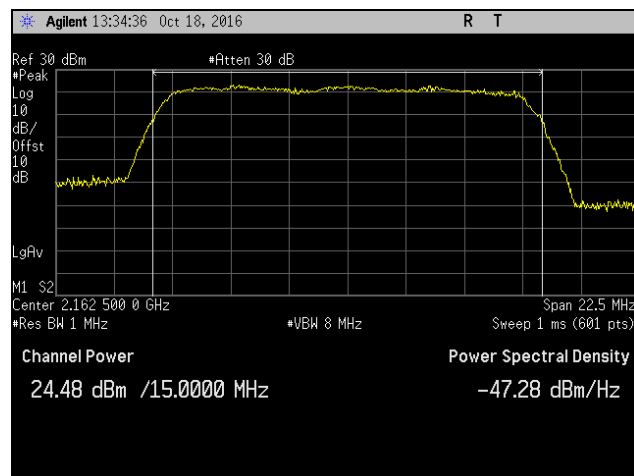
Plot 246. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Peak, 15 MHz



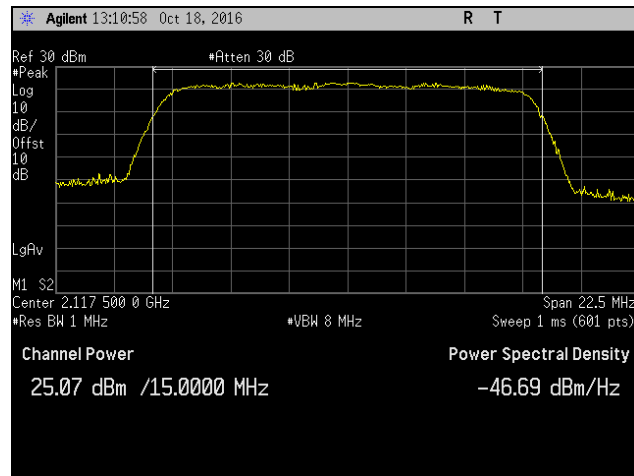
Plot 247. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Peak, 15 MHz



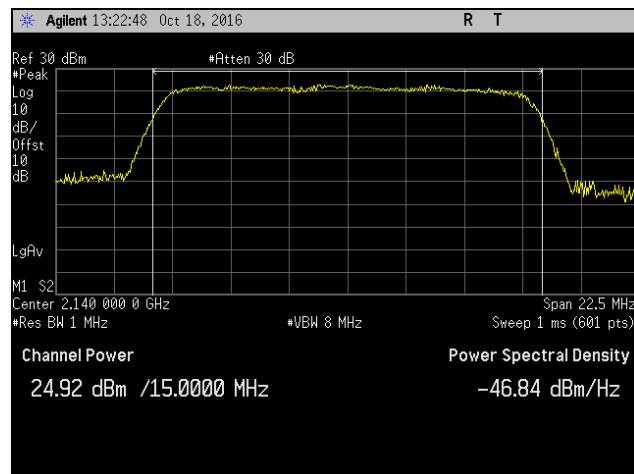
Plot 248. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Peak, 15 MHz



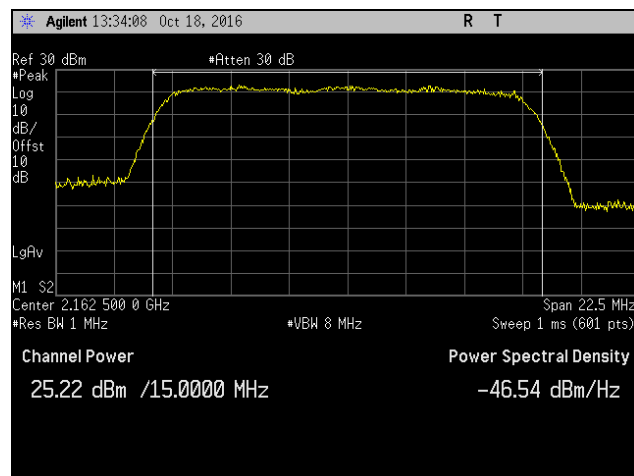
Plot 249. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Peak, 15 MHz



Plot 250. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Peak, 15 MHz

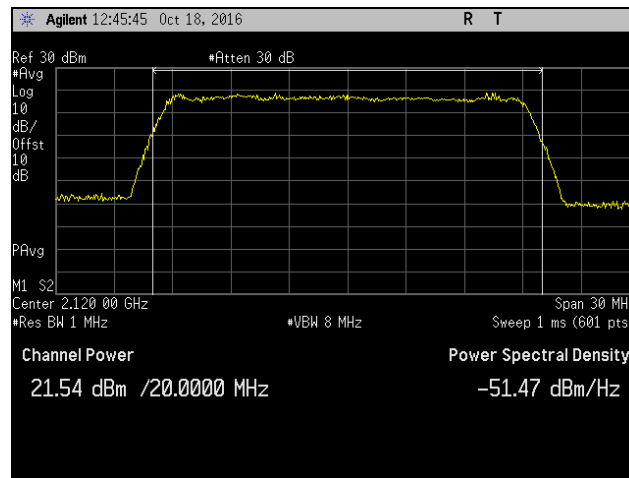


Plot 251. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Peak, 15 MHz

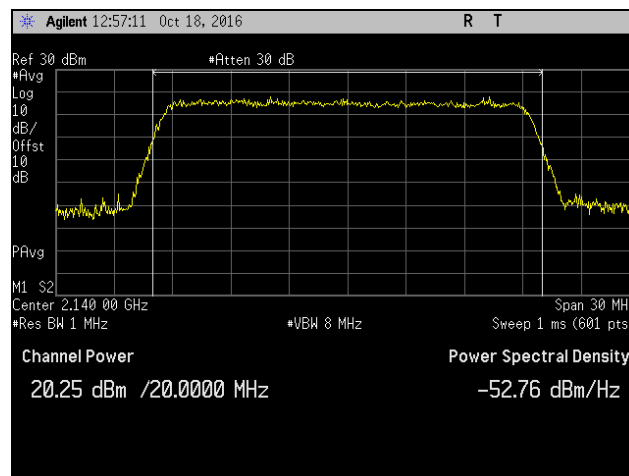


Plot 252. RF Output Power, QPSK, High Channel, Band 10, Port 2, Peak, 15 MHz

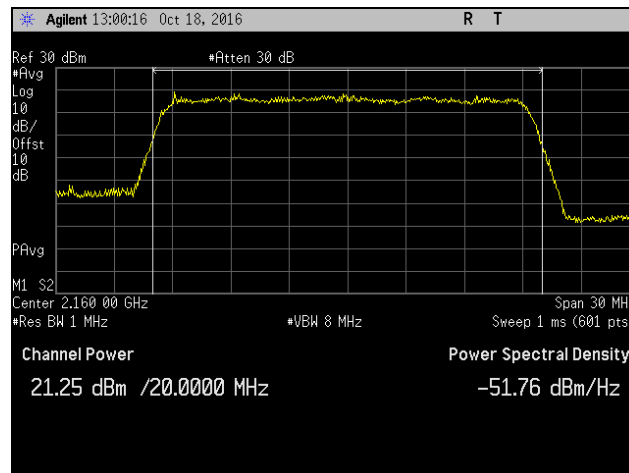
RF Output Power, Band 10, Port 1, 20 MHz



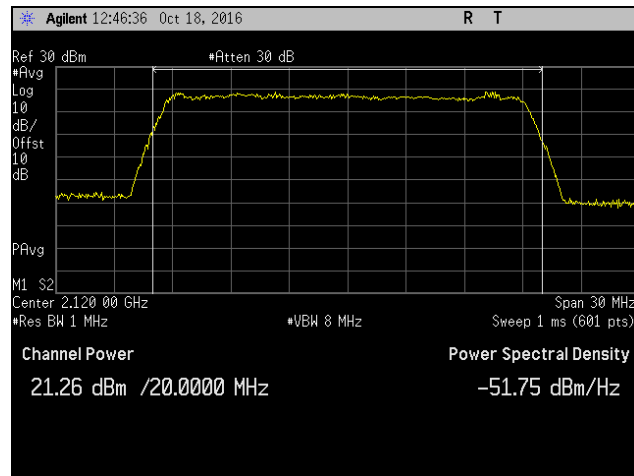
Plot 253. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Average, 20 MHz



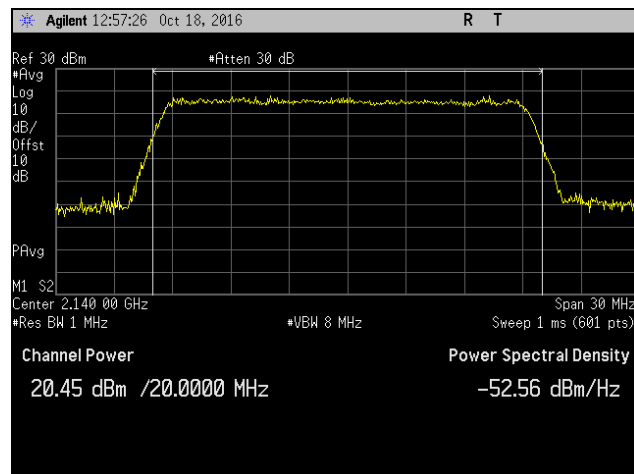
Plot 254. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Average, 20 MHz



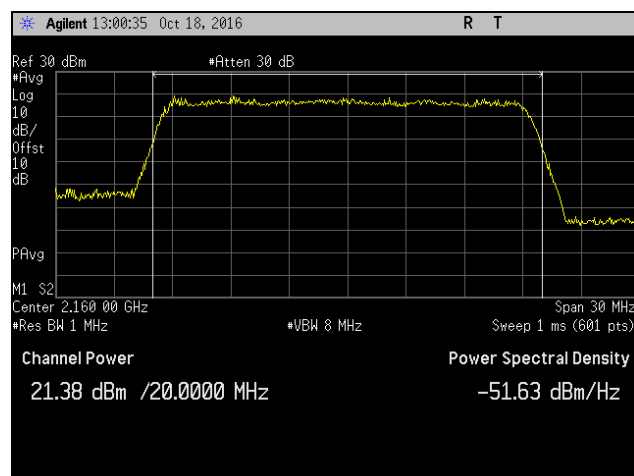
Plot 255. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Average, 20 MHz



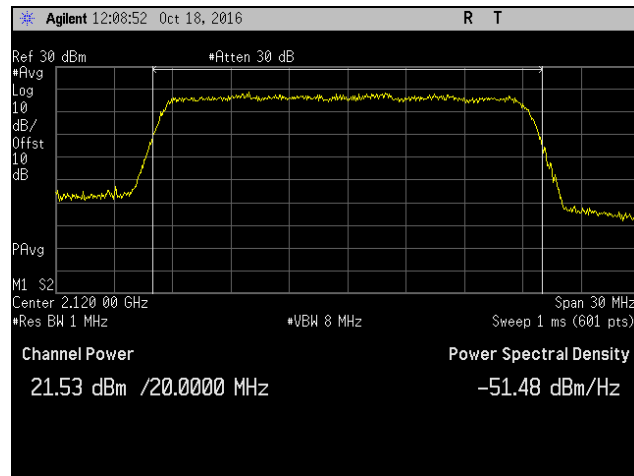
Plot 256. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Average, 20 MHz



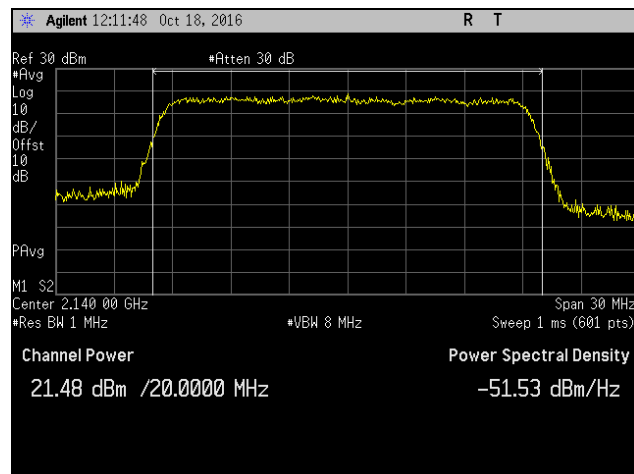
Plot 257. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Average, 20 MHz



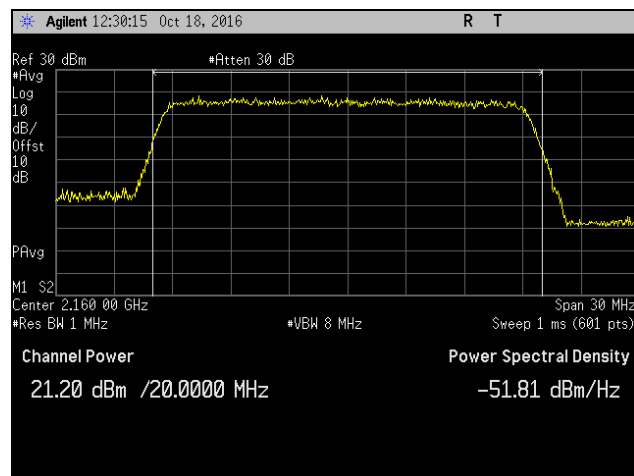
Plot 258. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Average, 20 MHz



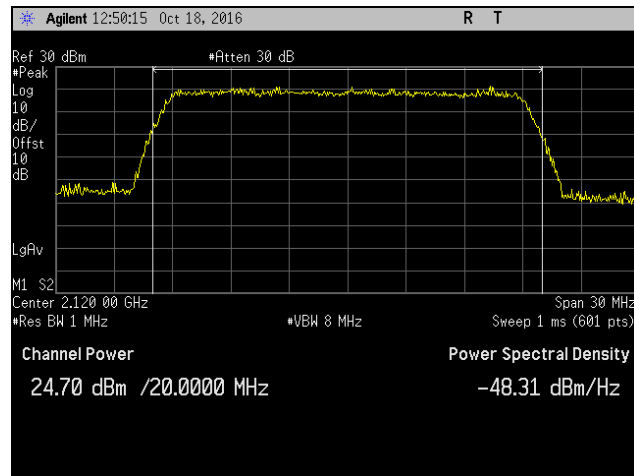
Plot 259. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Average, 20 MHz



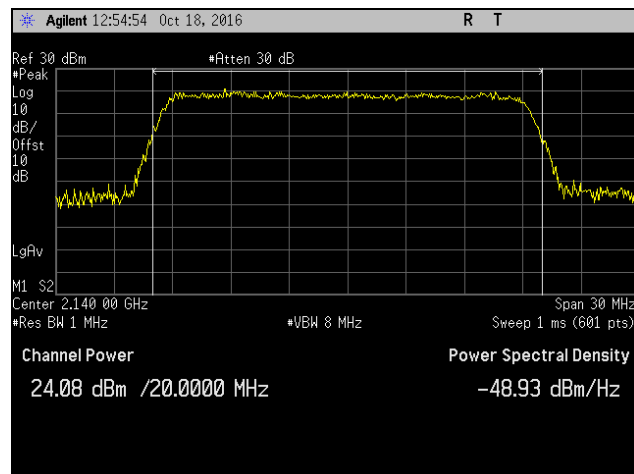
Plot 260. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Average, 20 MHz



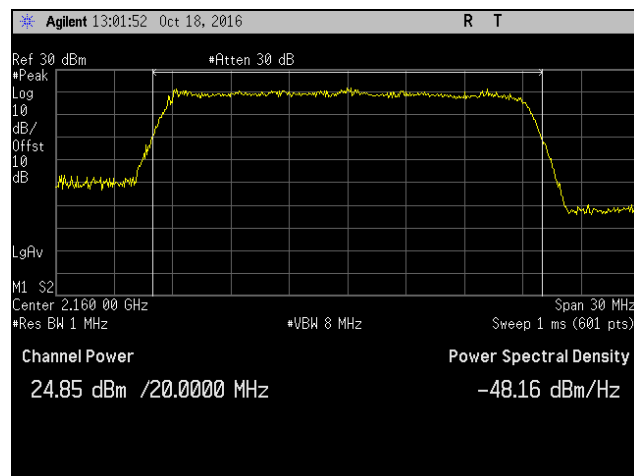
Plot 261. RF Output Power, QPSK, High Channel, Band 10, Port 1, Average, 20 MHz



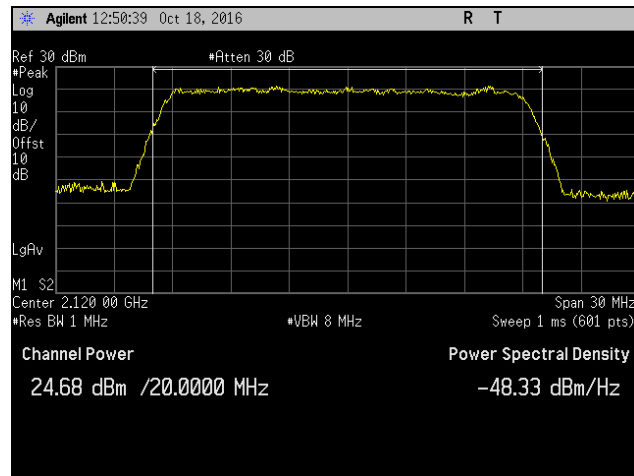
Plot 262. RF Output Power, QAM-16, Low Channel, Band 10, Port 1, Peak, 20 MHz



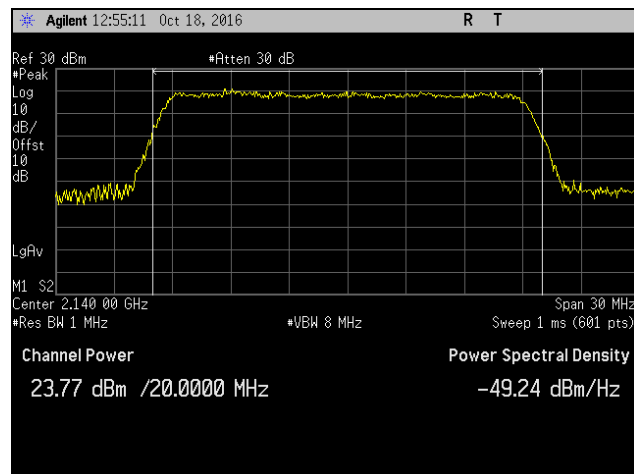
Plot 263. RF Output Power, QAM-16, Mid Channel, Band 10, Port 1, Peak, 20 MHz



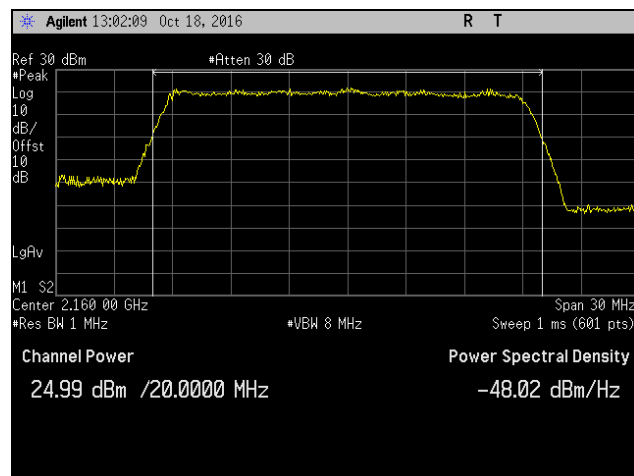
Plot 264. RF Output Power, QAM-16, High Channel, Band 10, Port 1, Peak, 20 MHz



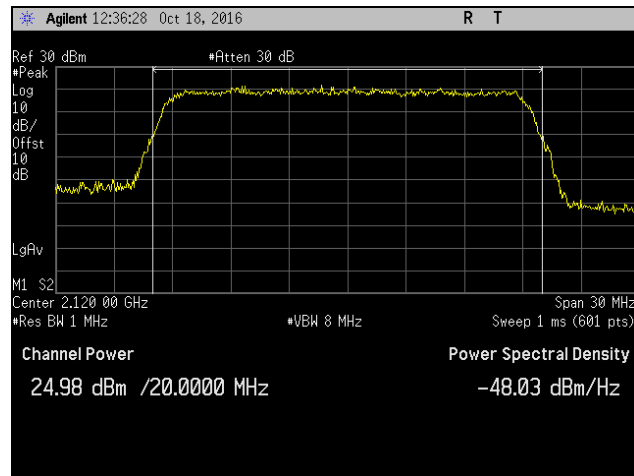
Plot 265. RF Output Power, QAM-64, Low Channel, Band 10, Port 1, Peak, 20 MHz



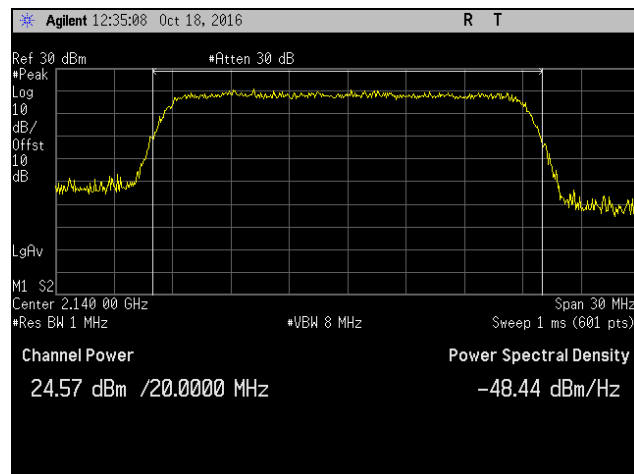
Plot 266. RF Output Power, QAM-64, Mid Channel, Band 10, Port 1, Peak, 20 MHz



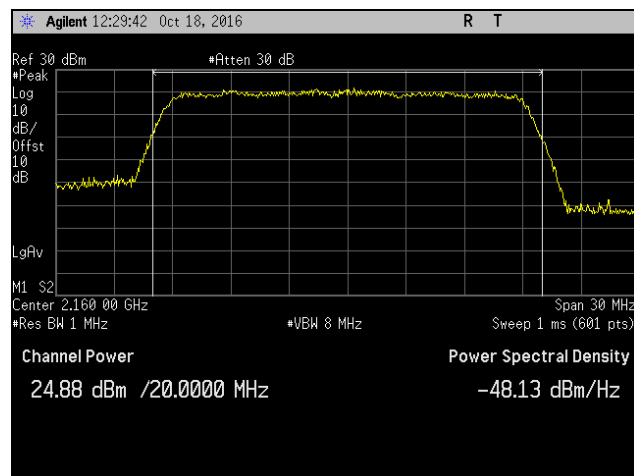
Plot 267. RF Output Power, QAM-64, High Channel, Band 10, Port 1, Peak, 20 MHz



Plot 268. RF Output Power, QPSK, Low Channel, Band 10, Port 1, Peak, 20 MHz

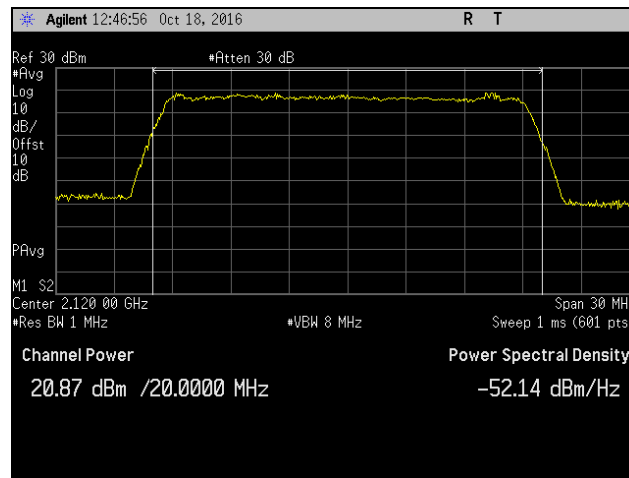


Plot 269. RF Output Power, QPSK, Mid Channel, Band 10, Port 1, Peak, 20 MHz

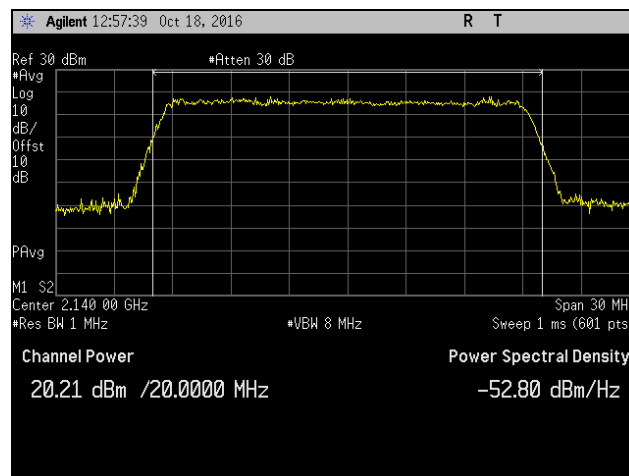


Plot 270. RF Output Power, QPSK, High Channel, Band 10, Port 1, Peak, 20 MHz

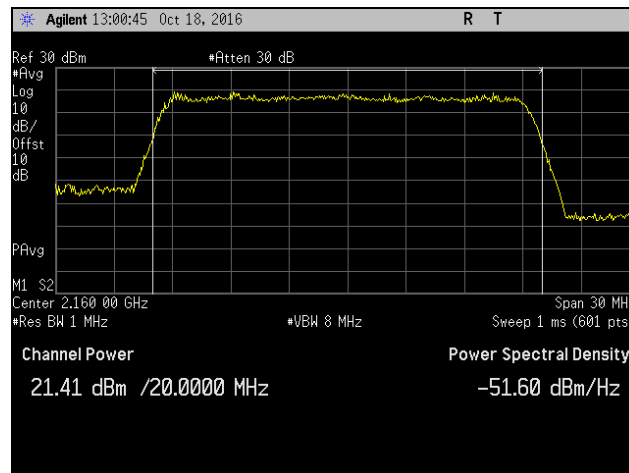
RF Output Power, Band 10, Port 2, 20 MHz



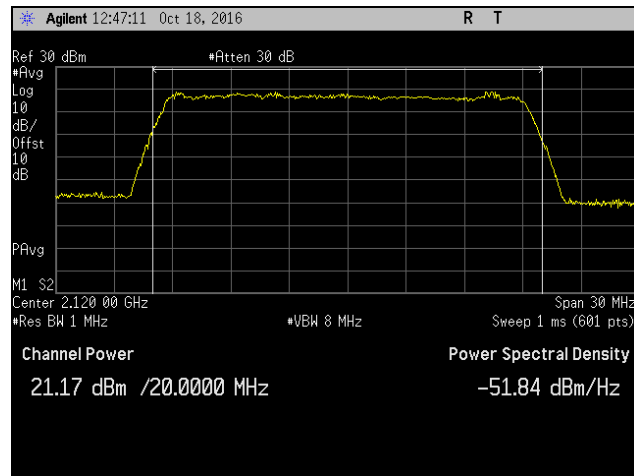
Plot 271. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Average, 20 MHz



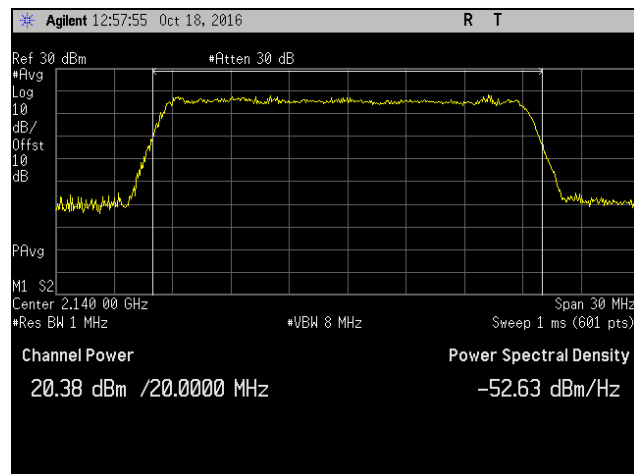
Plot 272. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Average, 20 MHz



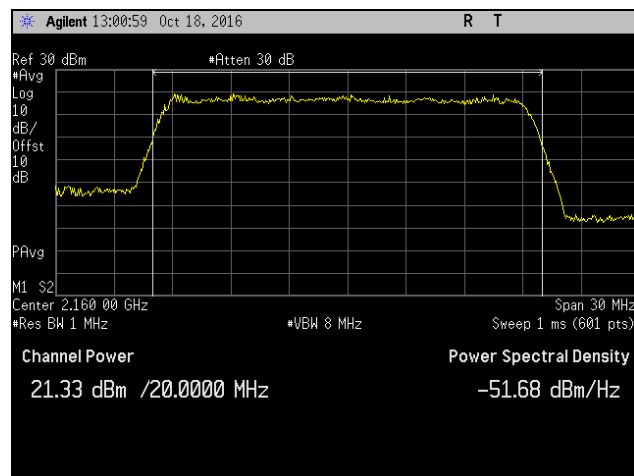
Plot 273. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Average, 20 MHz



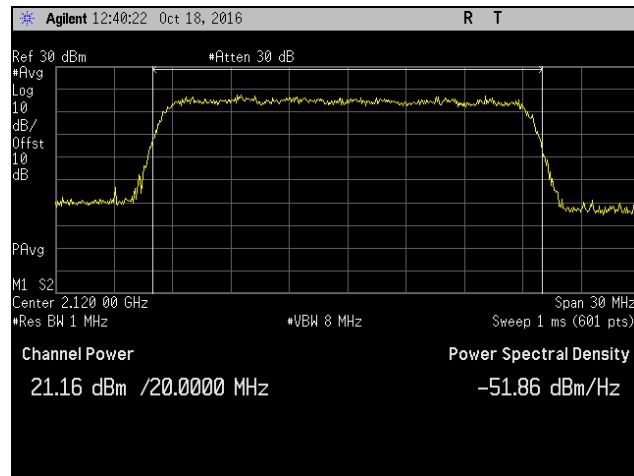
Plot 274. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Average, 20 MHz



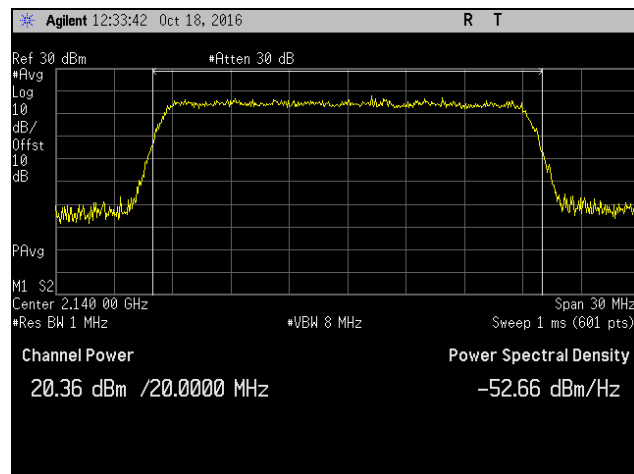
Plot 275. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Average, 20 MHz



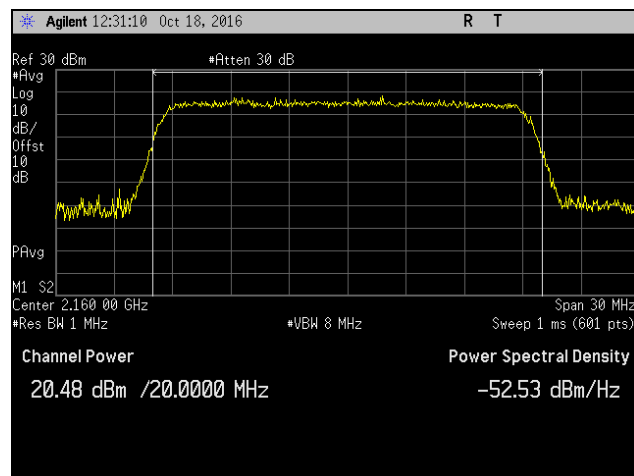
Plot 276. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Average, 20 MHz



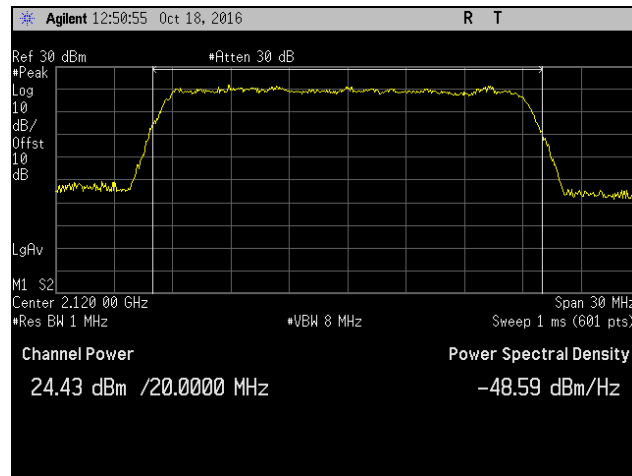
Plot 277. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Average, 20 MHz



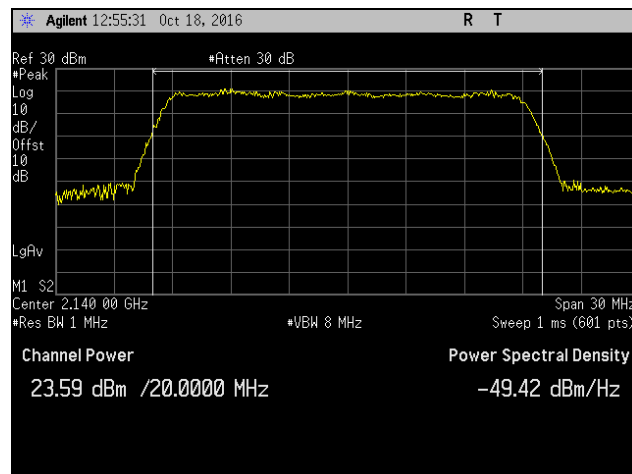
Plot 278. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Average, 20 MHz



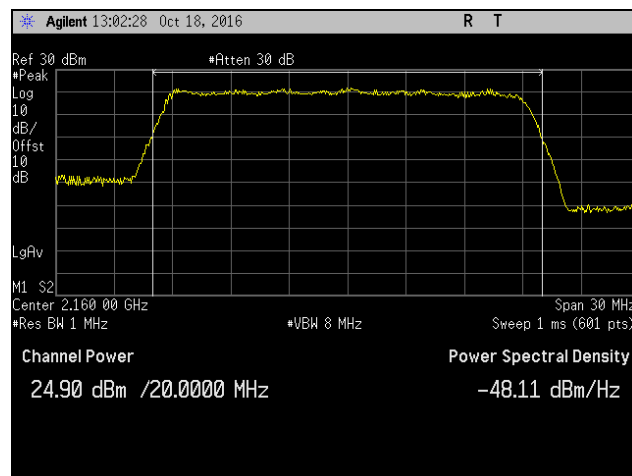
Plot 279. RF Output Power, QPSK, High Channel, Band 10, Port 2, Average, 20 MHz



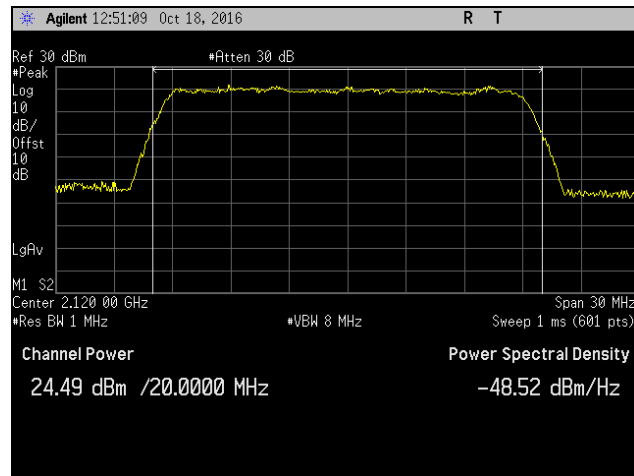
Plot 280. RF Output Power, QAM-16, Low Channel, Band 10, Port 2, Peak, 20 MHz



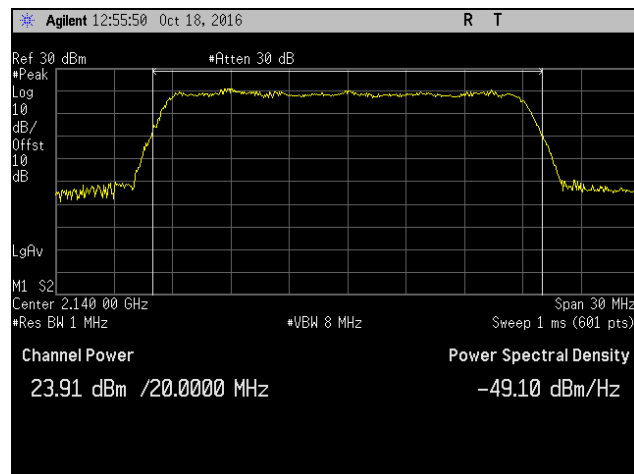
Plot 281. RF Output Power, QAM-16, Mid Channel, Band 10, Port 2, Peak, 20 MHz



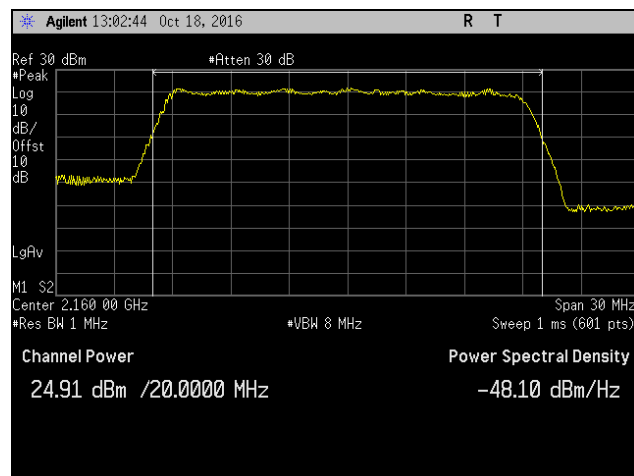
Plot 282. RF Output Power, QAM-16, High Channel, Band 10, Port 2, Peak, 20 MHz



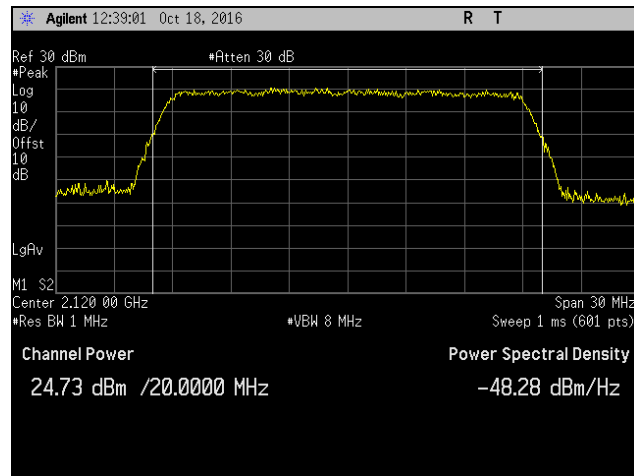
Plot 283. RF Output Power, QAM-64, Low Channel, Band 10, Port 2, Peak, 20 MHz



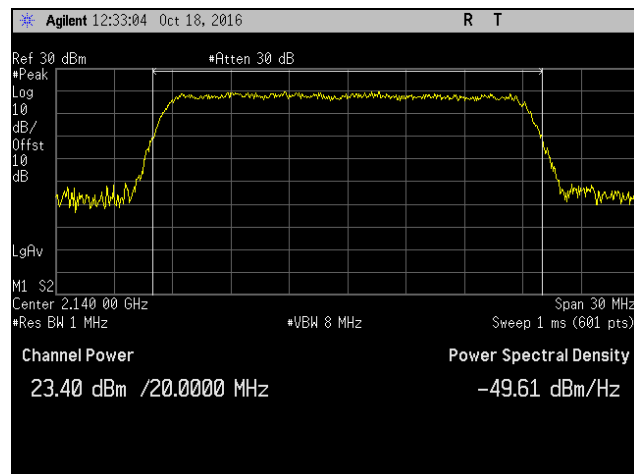
Plot 284. RF Output Power, QAM-64, Mid Channel, Band 10, Port 2, Peak, 20 MHz



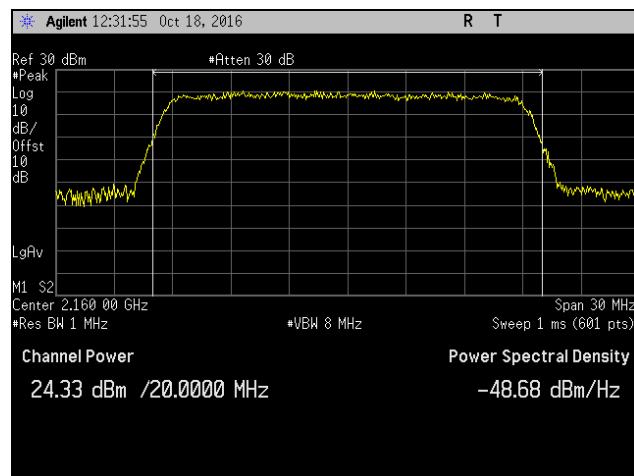
Plot 285. RF Output Power, QAM-64, High Channel, Band 10, Port 2, Peak, 20 MHz



Plot 286. RF Output Power, QPSK, Low Channel, Band 10, Port 2, Peak, 20 MHz

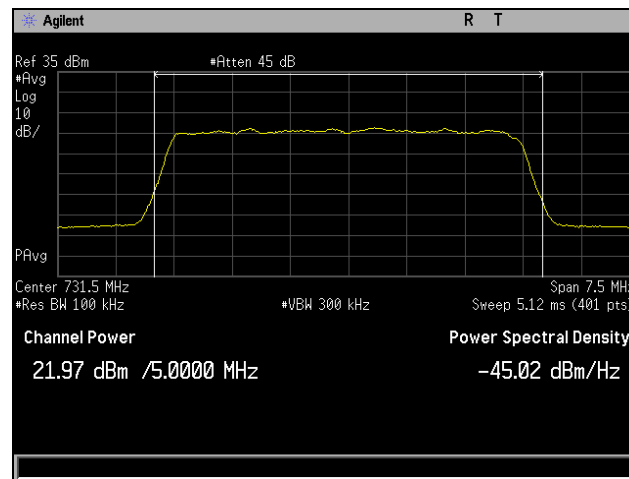


Plot 287. RF Output Power, QPSK, Mid Channel, Band 10, Port 2, Peak, 20 MHz

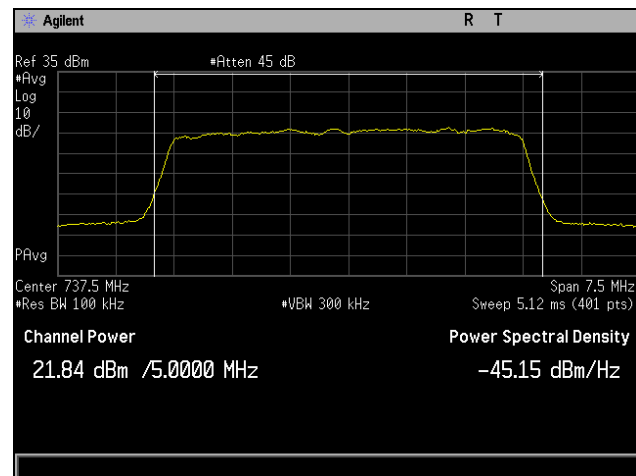


Plot 288. RF Output Power, QPSK, High Channel, Band 10, Port 2, Peak, 20 MHz

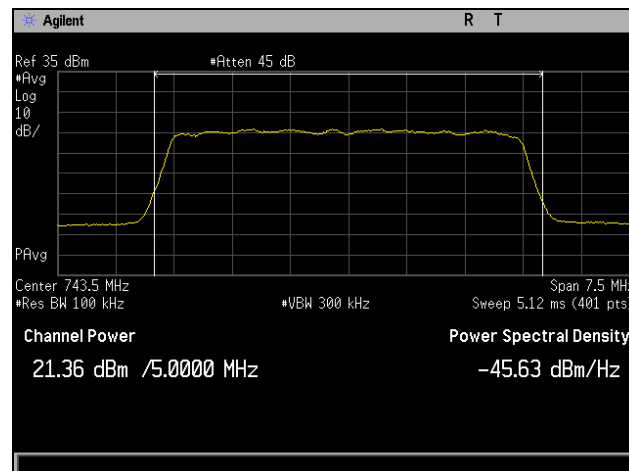
RF Output Power, Band 12, Port 1, 5 MHz



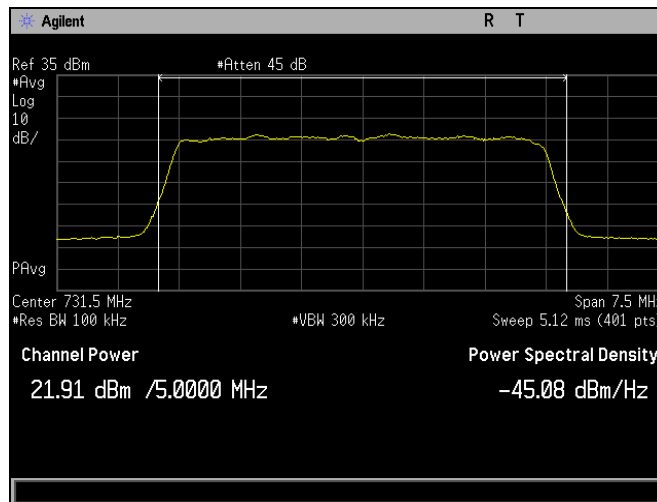
Plot 289. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Average, 5 MHz



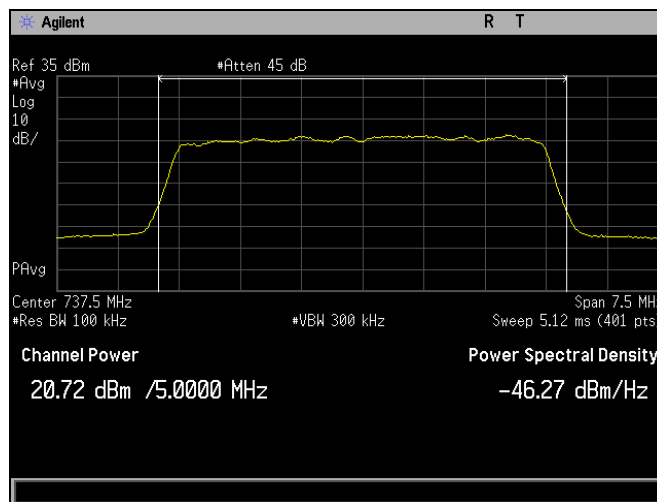
Plot 290. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Average, 5 MHz



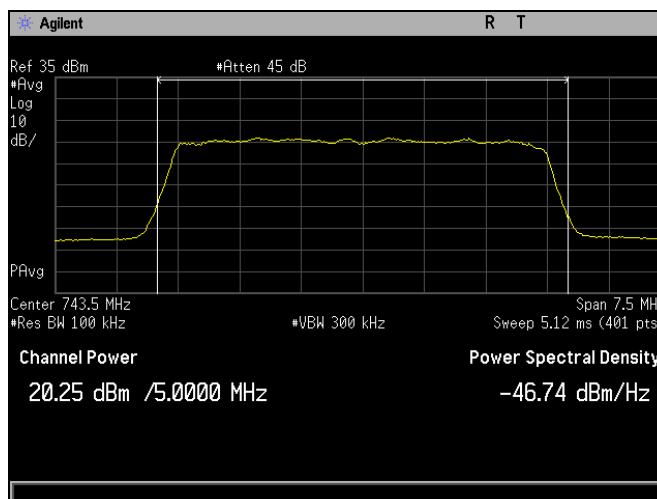
Plot 291. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Average, 5 MHz



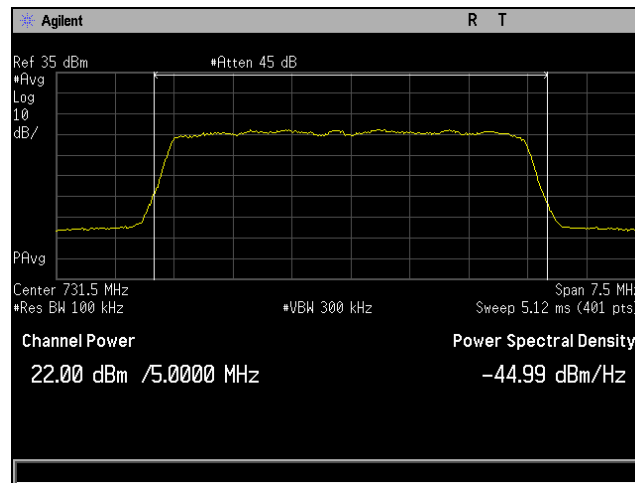
Plot 292. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Average, 5 MHz



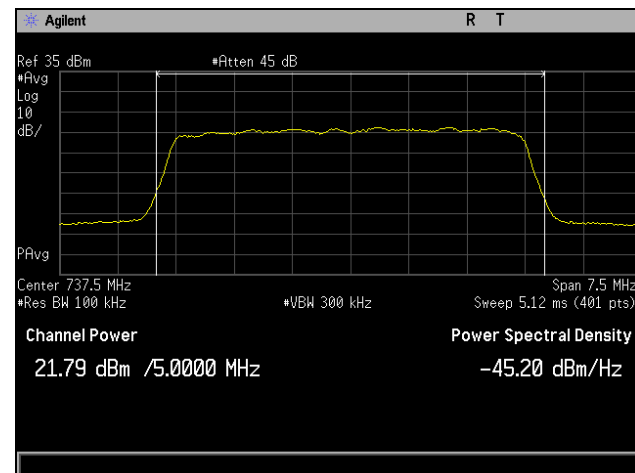
Plot 293. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Average, 5 MHz



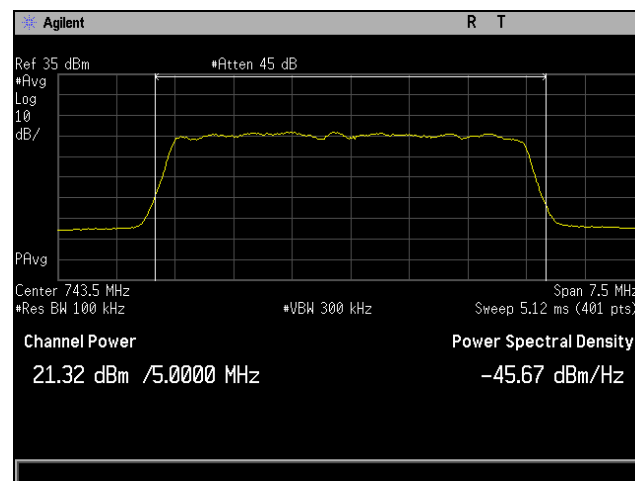
Plot 294. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Average, 5 MHz



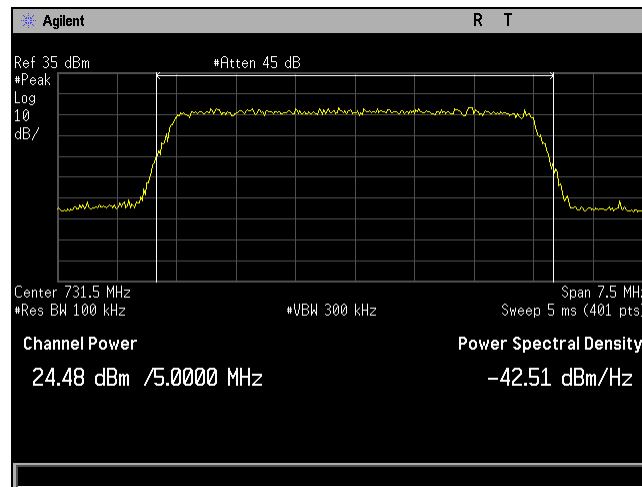
Plot 295. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Average, 5 MHz



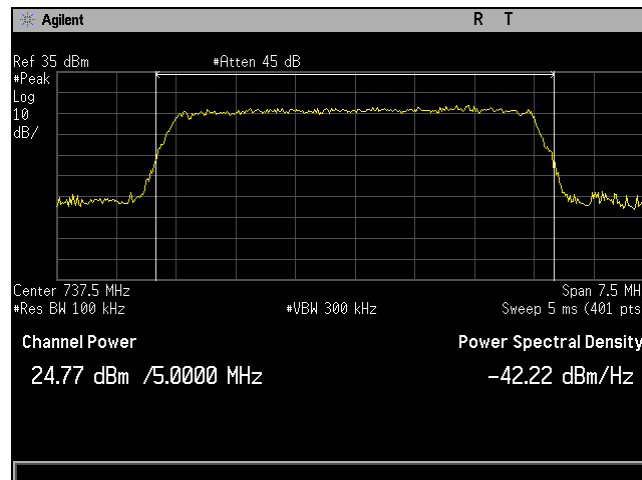
Plot 296. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Average, 5 MHz



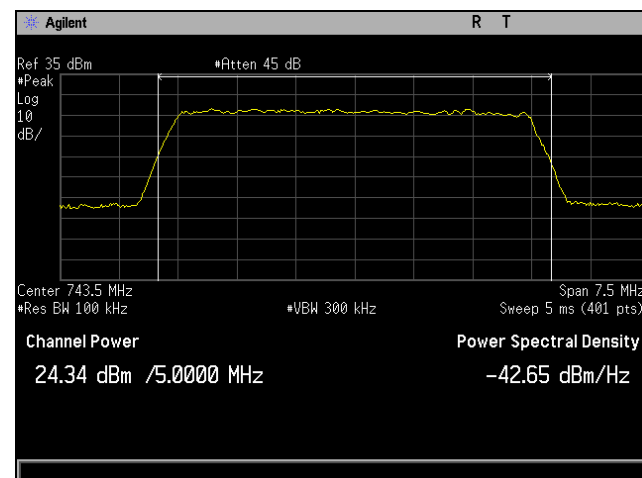
Plot 297. RF Output Power, QPSK, High Channel, Band 12, Port 1, Average, 5 MHz



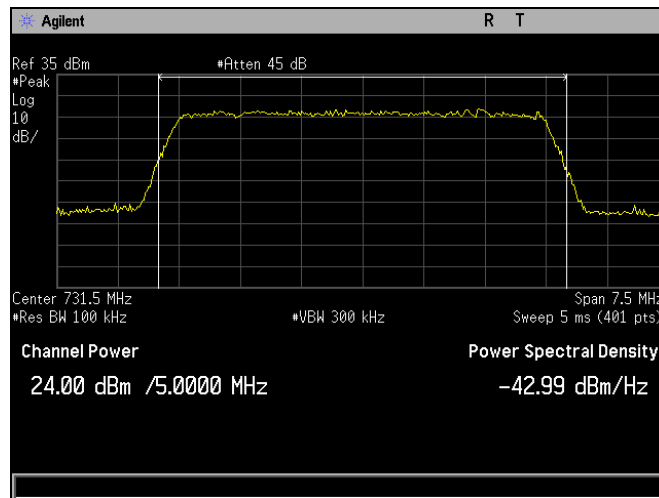
Plot 298. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Peak, 5 MHz



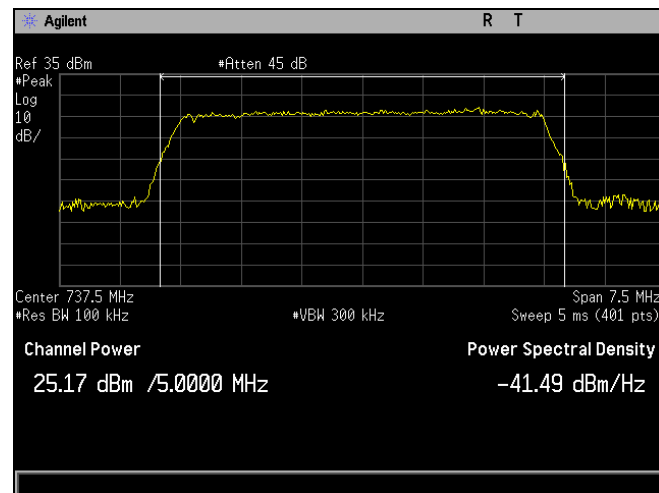
Plot 299. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Peak, 5 MHz



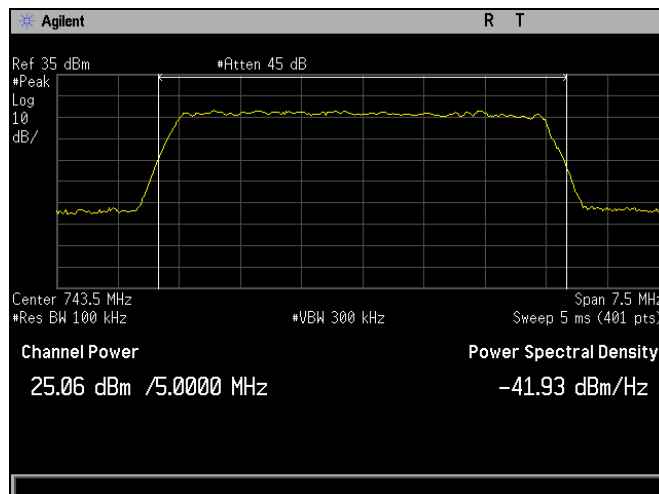
Plot 300. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Peak, 5 MHz



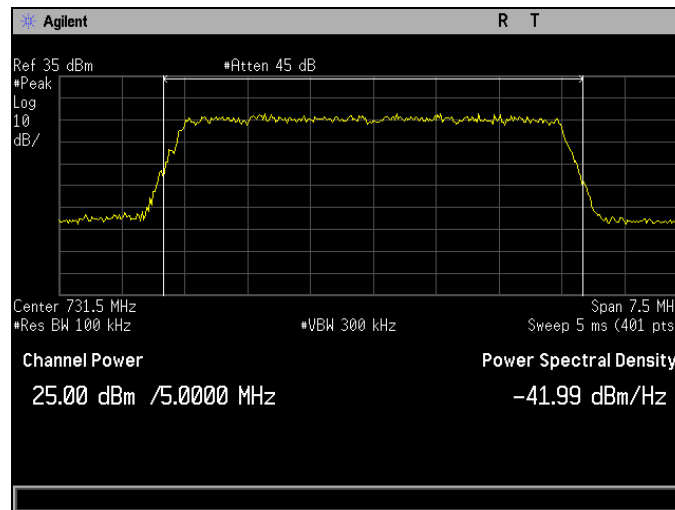
Plot 301. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Peak, 5 MHz



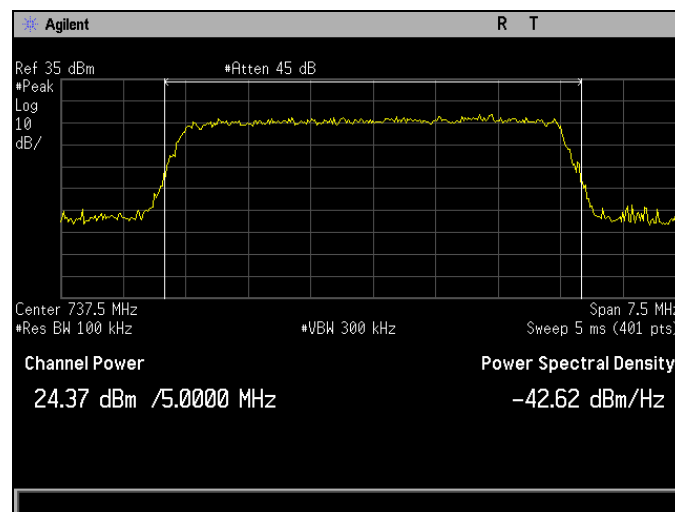
Plot 302. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Peak, 5 MHz



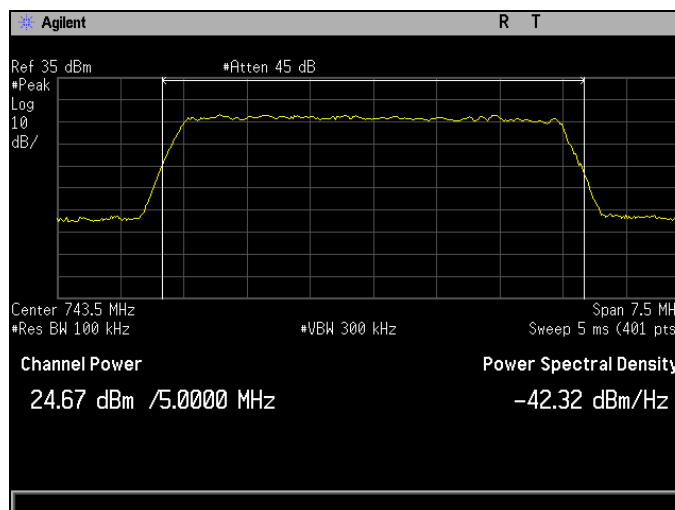
Plot 303. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Peak, 5 MHz



Plot 304. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Peak, 5 MHz

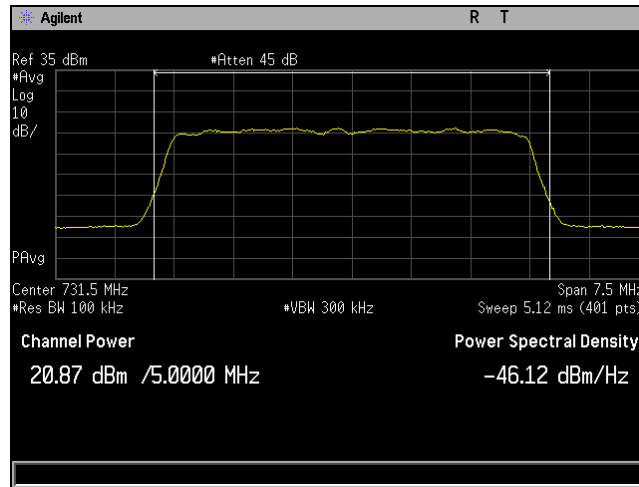


Plot 305. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Peak, 5 MHz

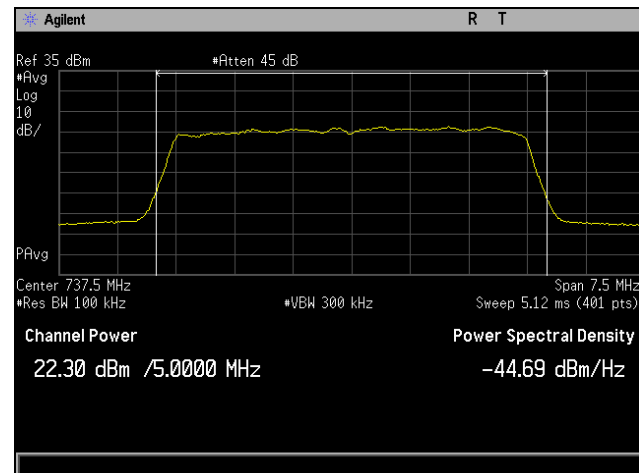


Plot 306. RF Output Power, QPSK, High Channel, Band 12, Port 1, Peak, 5 MHz

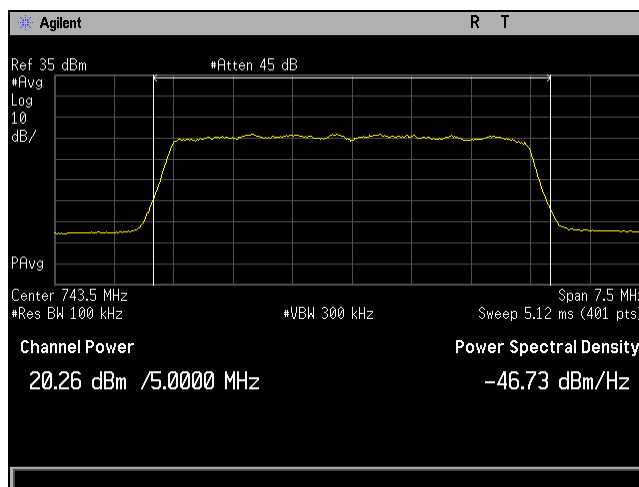
RF Output Power, Band 12, Port 2, 5 MHz



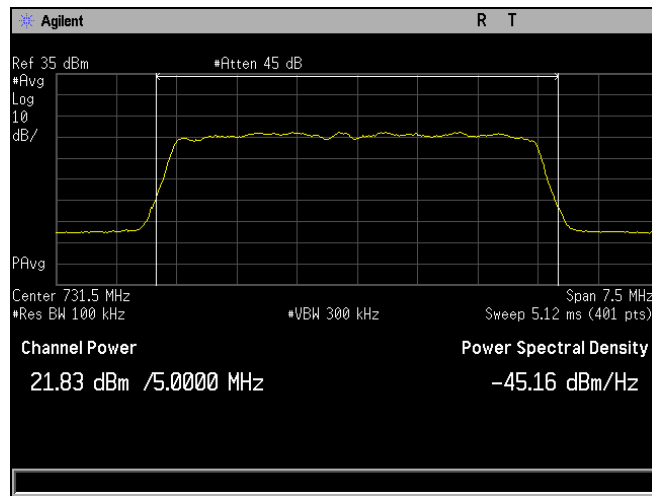
Plot 307. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Average, 5 MHz



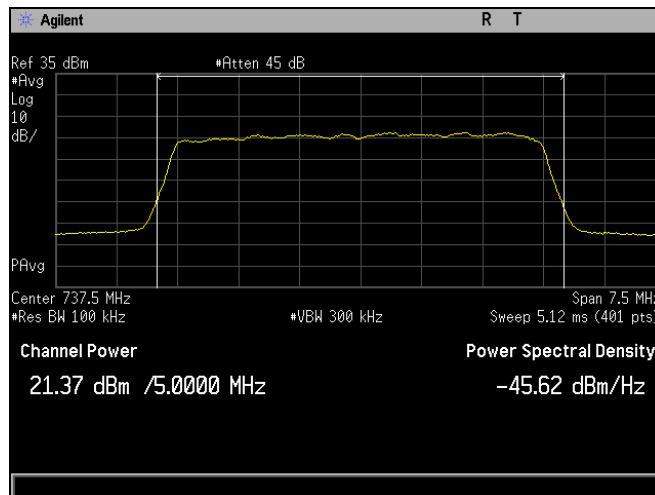
Plot 308. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Average, 5 MHz



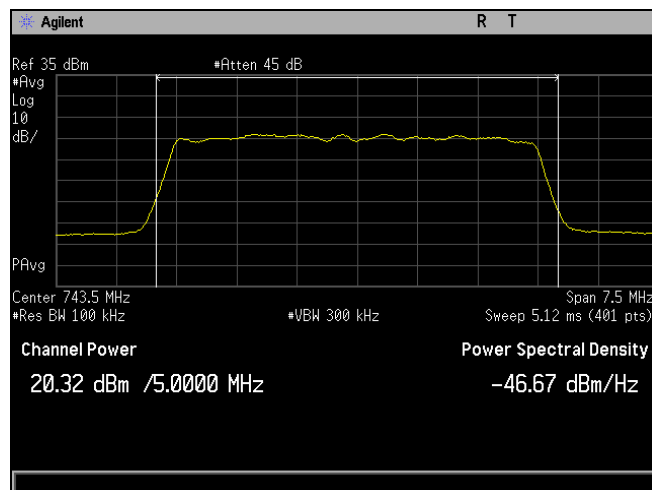
Plot 309. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Average, 5 MHz



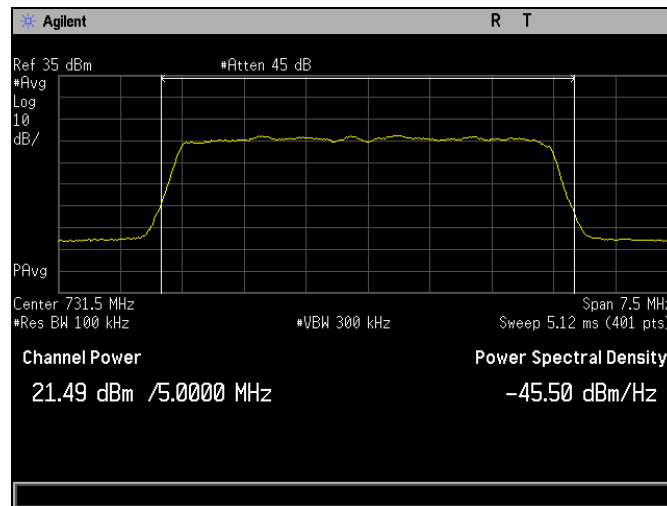
Plot 310. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Average, 5 MHz



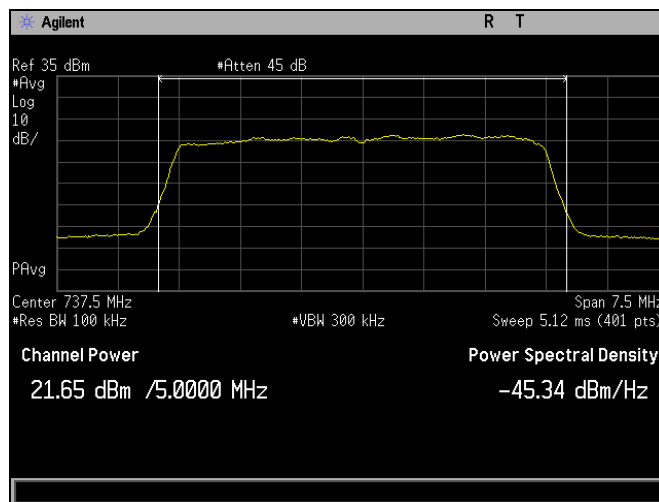
Plot 311. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Average, 5 MHz



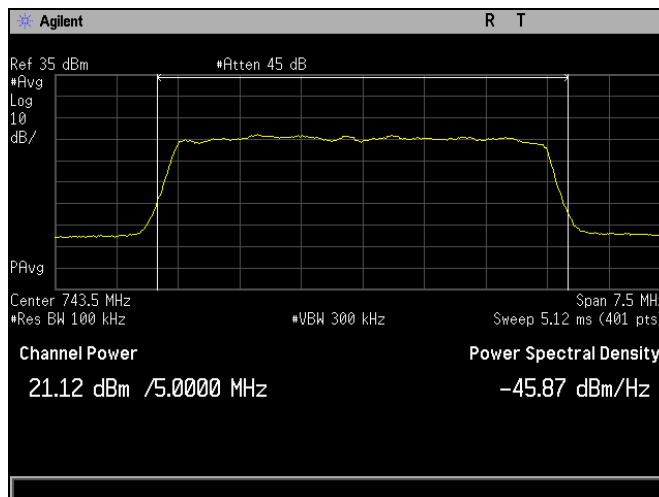
Plot 312. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Average, 5 MHz



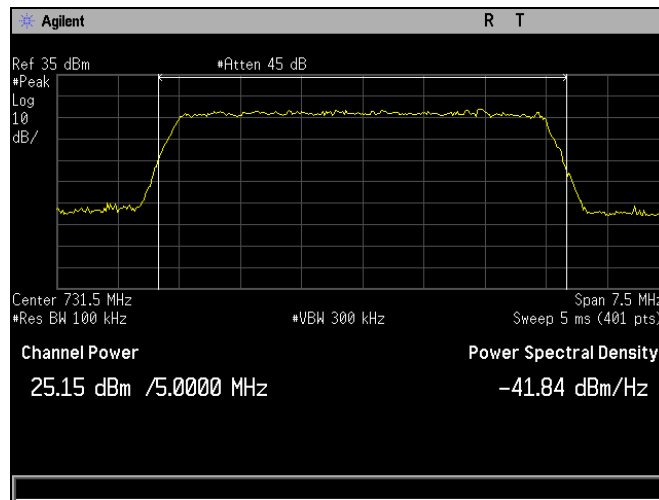
Plot 313. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Average, 5 MHz



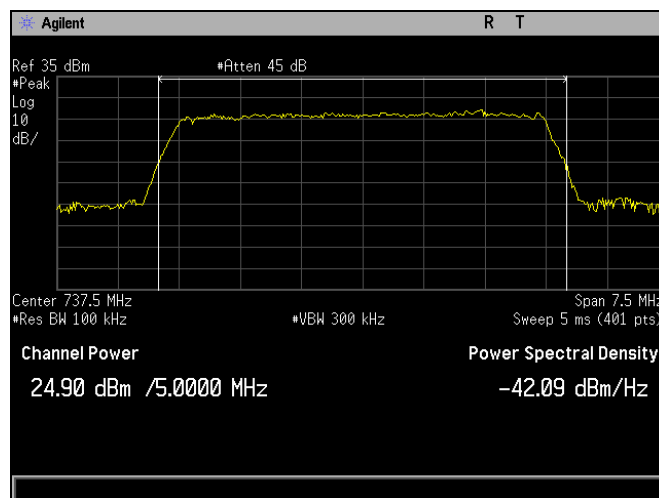
Plot 314. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Average, 5 MHz



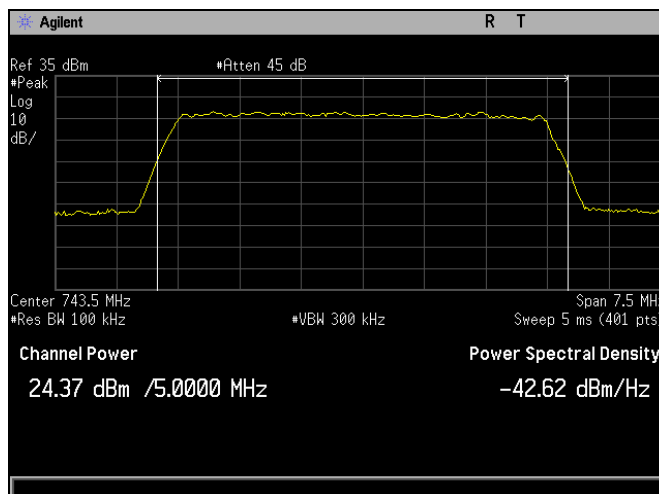
Plot 315. RF Output Power, QPSK, High Channel, Band 12, Port 2, Average, 5 MHz



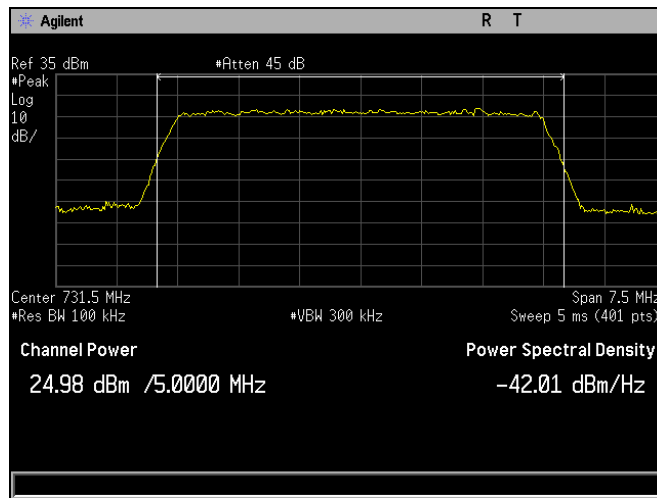
Plot 316. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Peak, 5 MHz



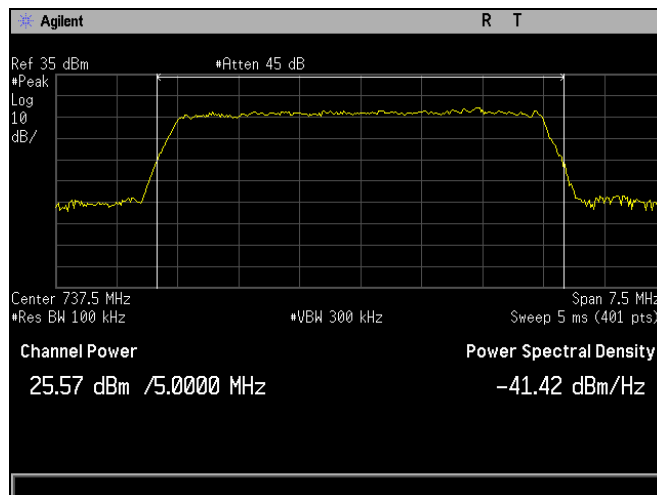
Plot 317. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Peak, 5 MHz



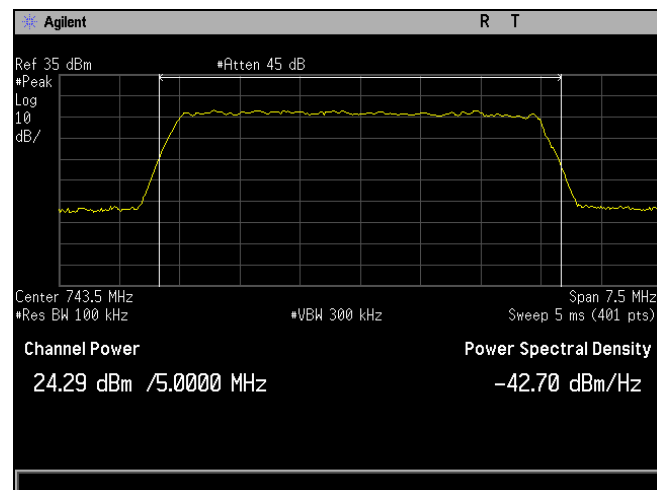
Plot 318. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Peak, 5 MHz



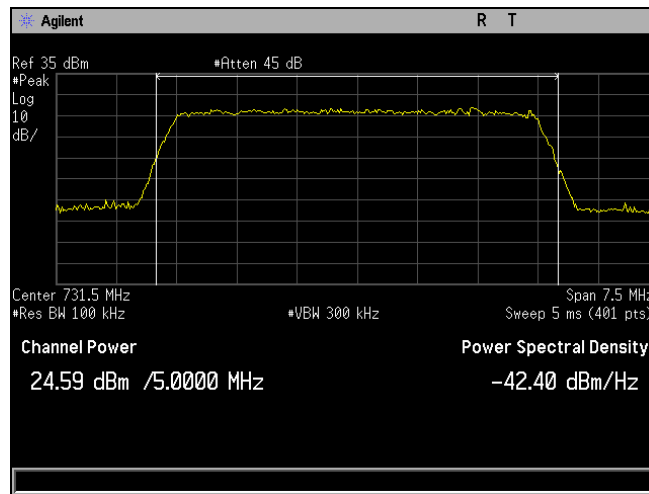
Plot 319. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Peak, 5 MHz



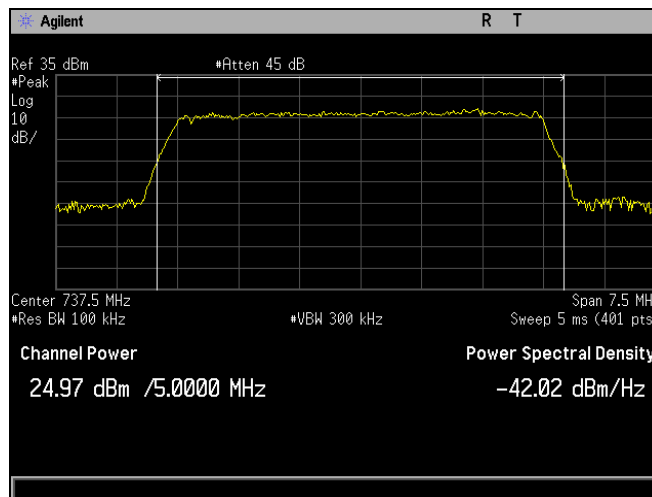
Plot 320. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Peak, 5 MHz



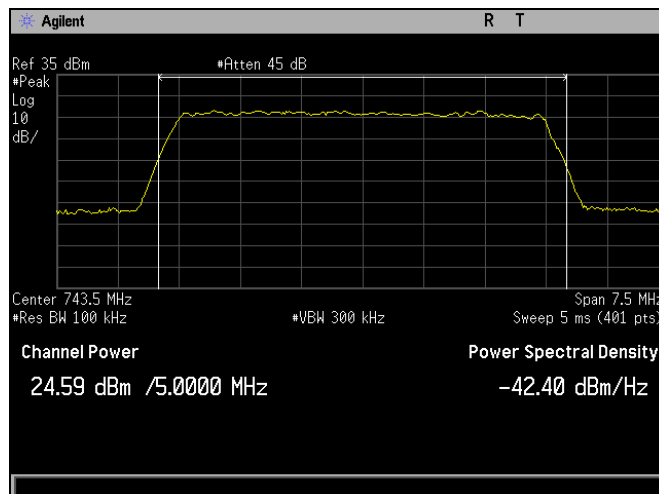
Plot 321. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Peak, 5 MHz



Plot 322. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Peak, 5 MHz

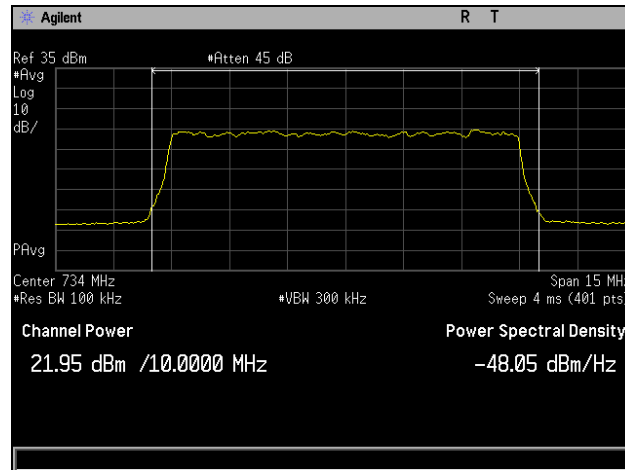


Plot 323. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Peak, 5 MHz

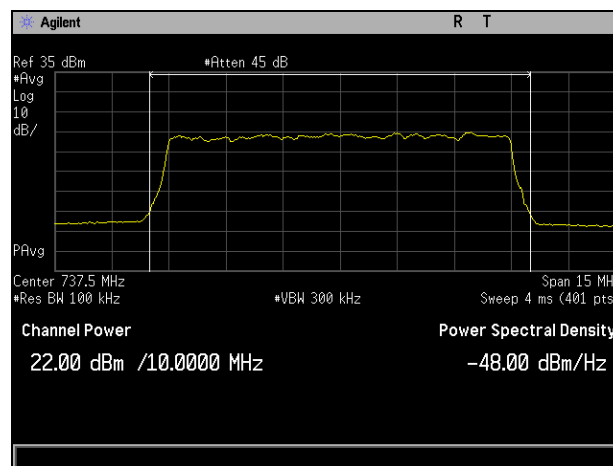


Plot 324. RF Output Power, QPSK, High Channel, Band 12, Port 2, Peak, 5 MHz

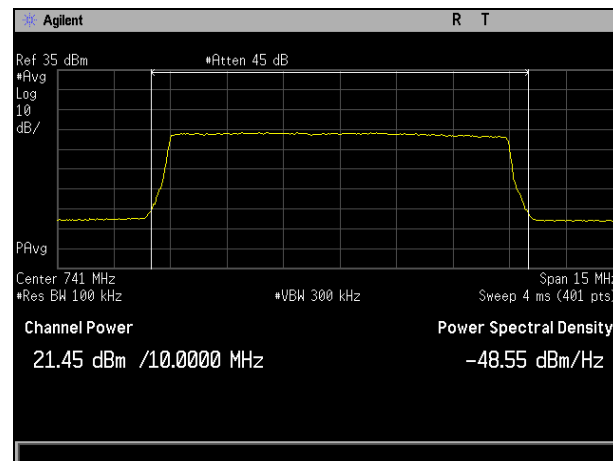
RF Output Power, Band 12, Port 1, 10 MHz



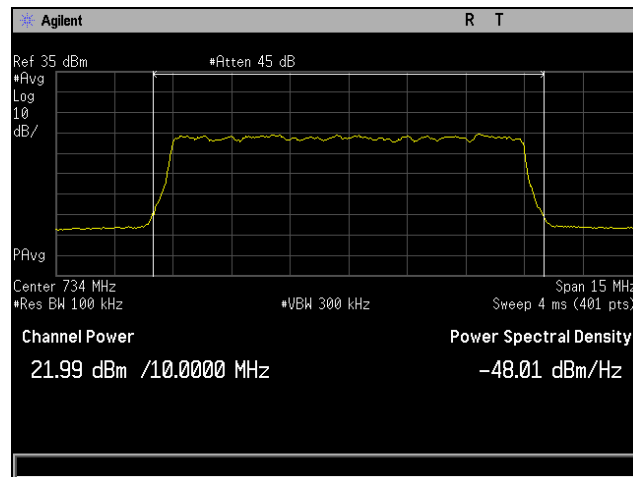
Plot 325. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Average, 10 MHz



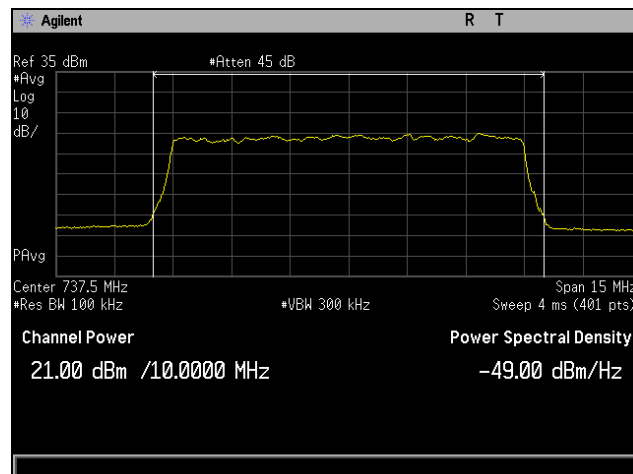
Plot 326. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Average, 10 MHz



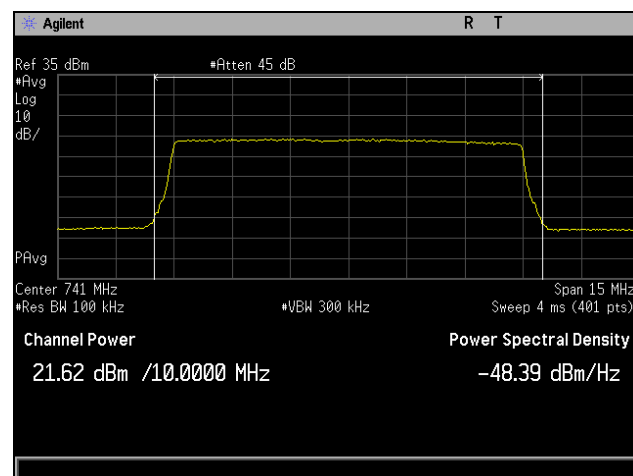
Plot 327. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Average, 10 MHz



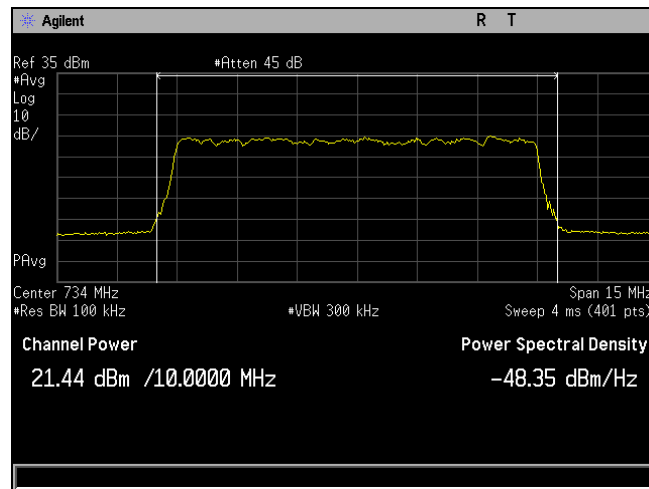
Plot 328. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Average, 10 MHz



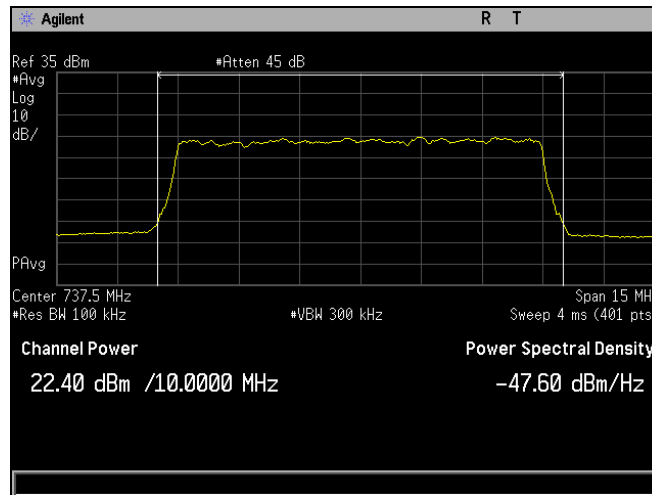
Plot 329. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Average, 10 MHz



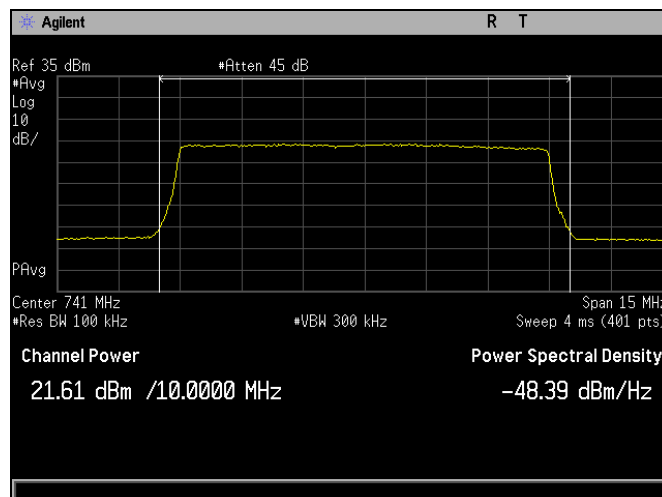
Plot 330. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Average, 10 MHz



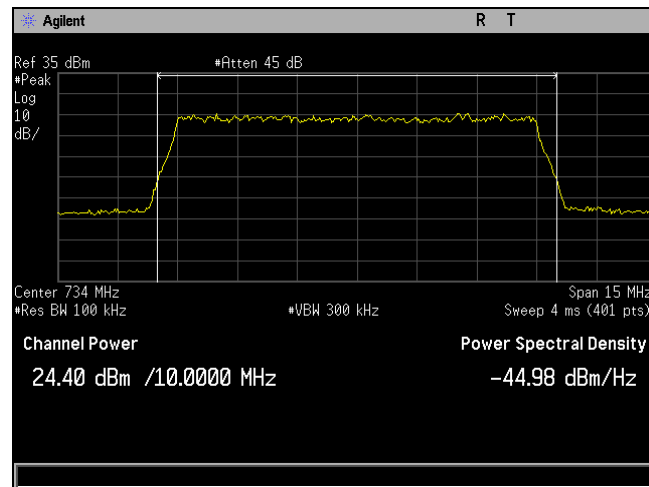
Plot 331. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Average, 10 MHz



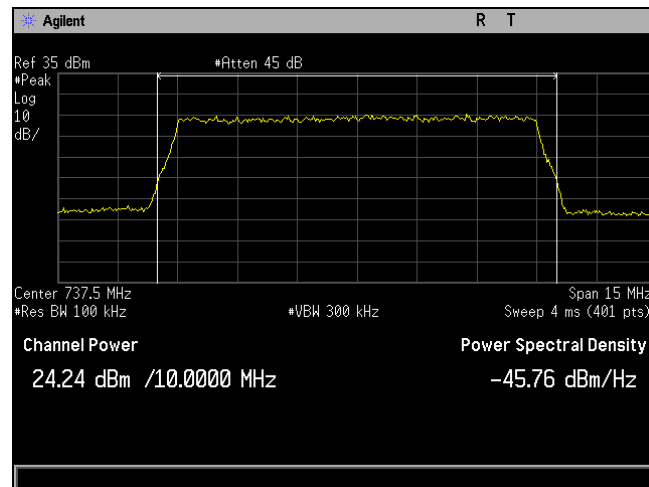
Plot 332. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Average, 10 MHz



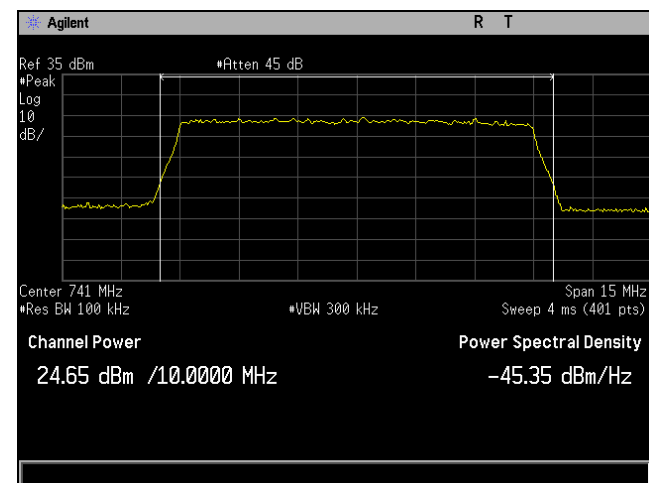
Plot 333. RF Output Power, QPSK, High Channel, Band 12, Port 1, Average, 10 MHz



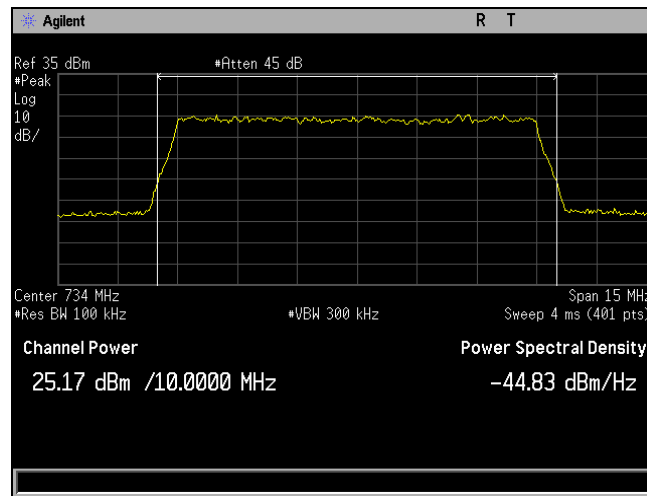
Plot 334. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Peak, 10 MHz



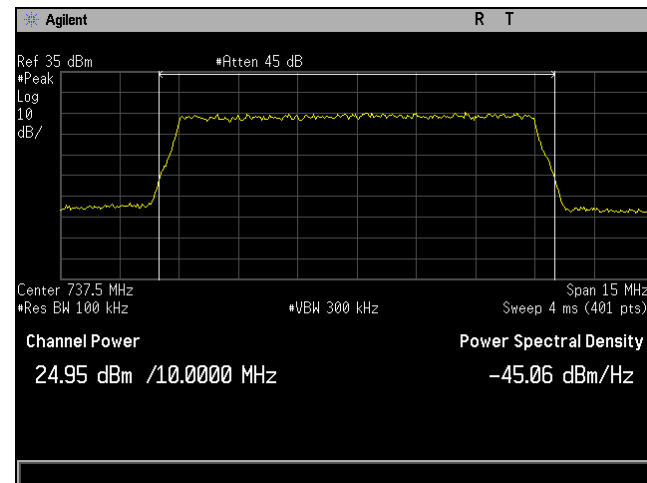
Plot 335. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Peak, 10 MHz



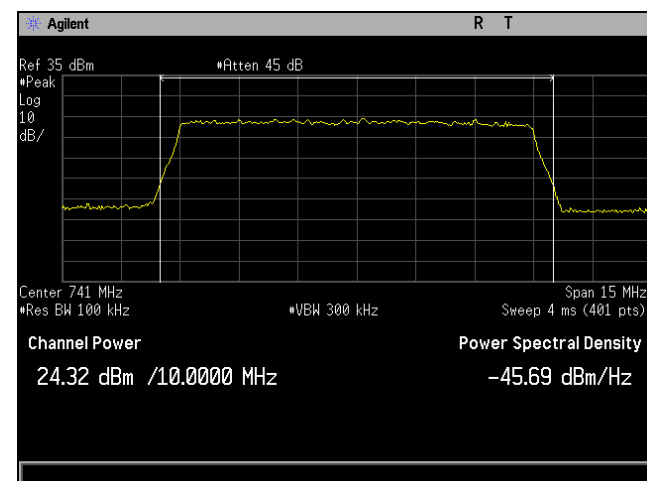
Plot 336. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Peak, 10 MHz



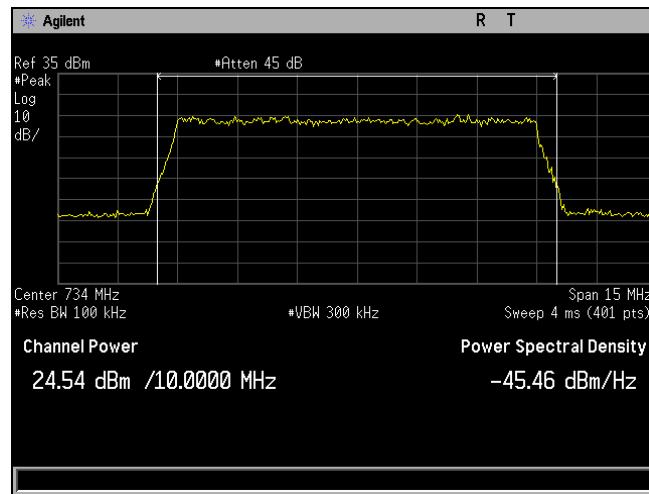
Plot 337. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Peak, 10 MHz



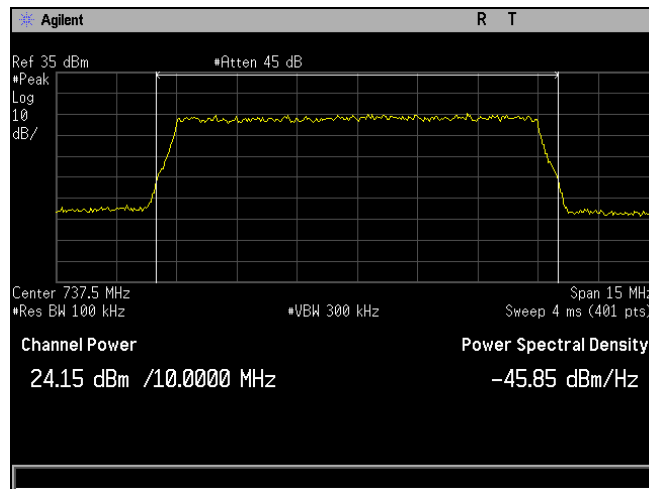
Plot 338. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Peak, 10 MHz



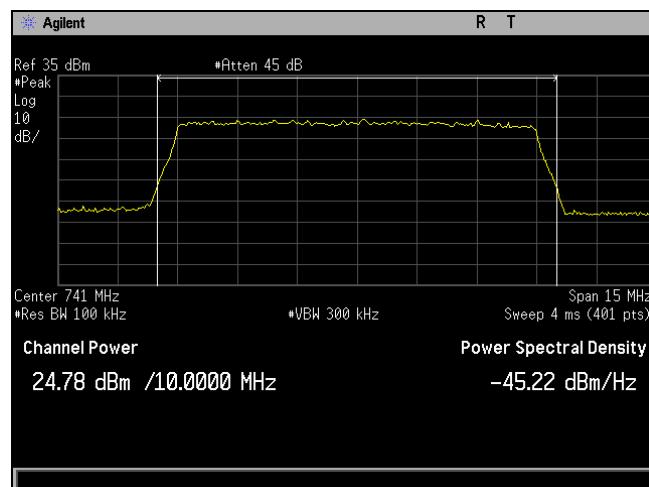
Plot 339. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Peak, 10 MHz



Plot 340. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Peak, 10 MHz

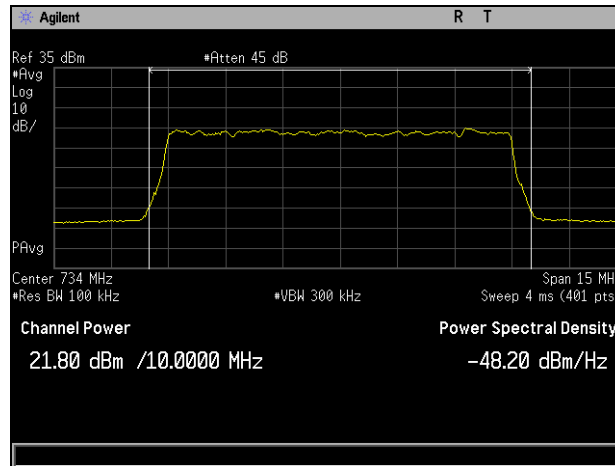


Plot 341. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Peak, 10 MHz

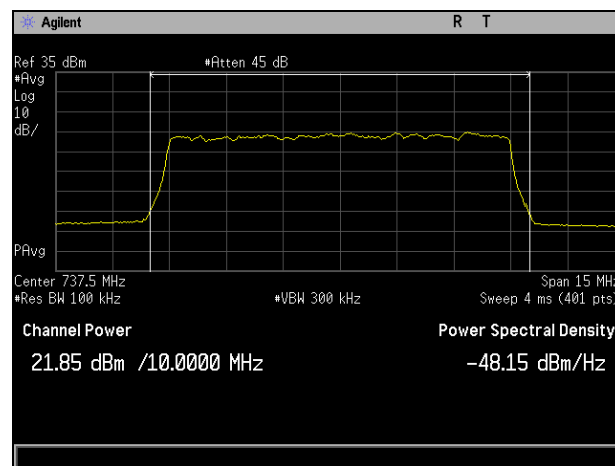


Plot 342. RF Output Power, QPSK, High Channel, Band 12, Port 1, Peak, 10 MHz

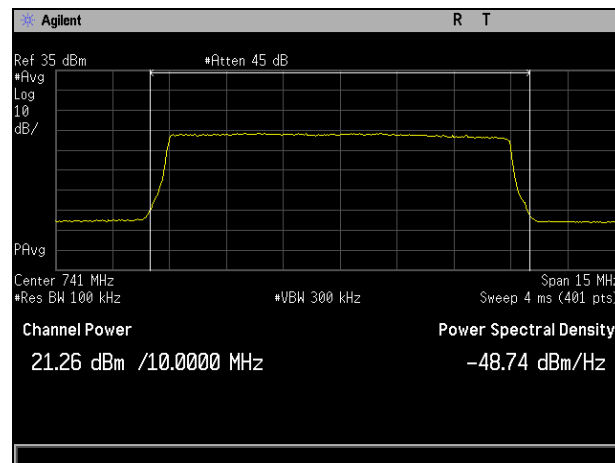
RF Output Power, Band 12, Port 2, 10 MHz



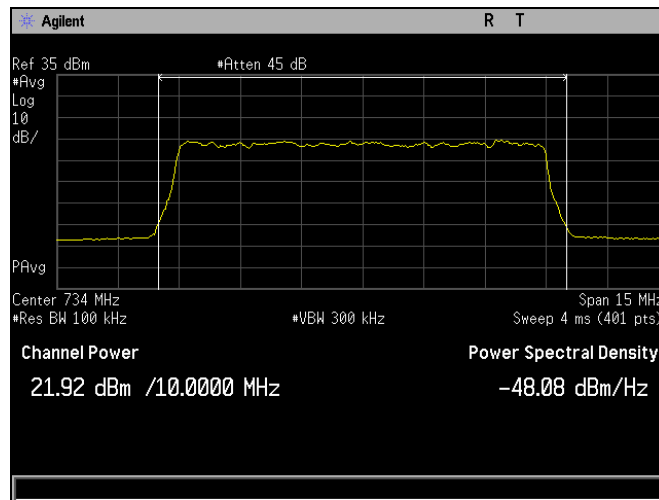
Plot 343. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Average, 10 MHz



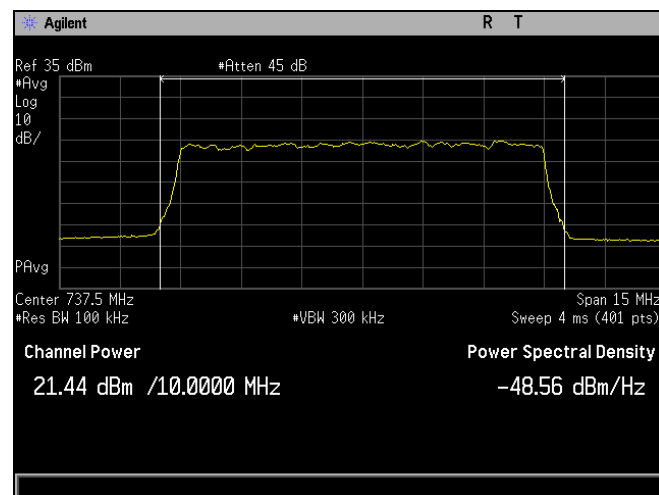
Plot 344. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Average, 10 MHz



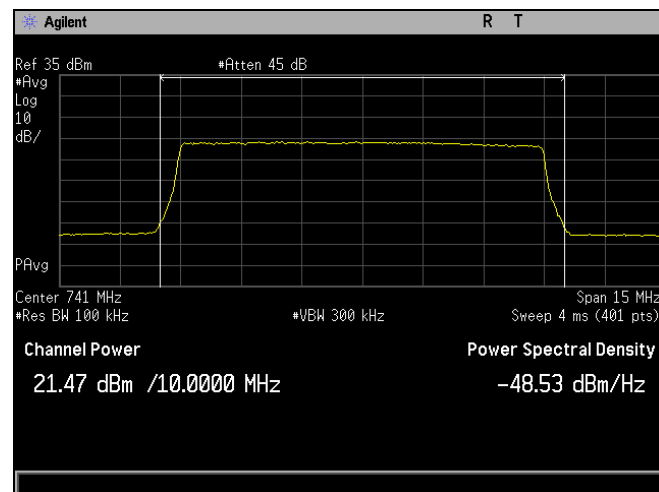
Plot 345. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Average, 10 MHz



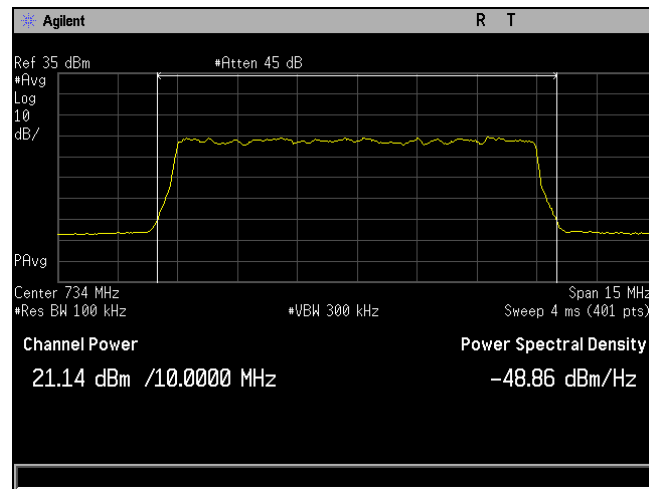
Plot 346. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Average, 10 MHz



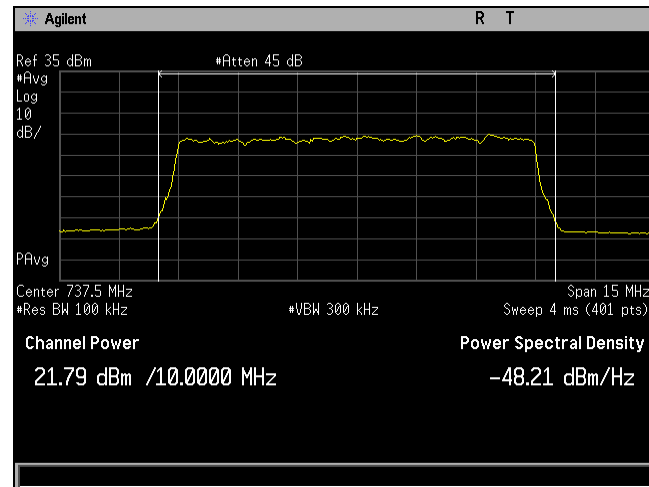
Plot 347. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Average, 10 MHz



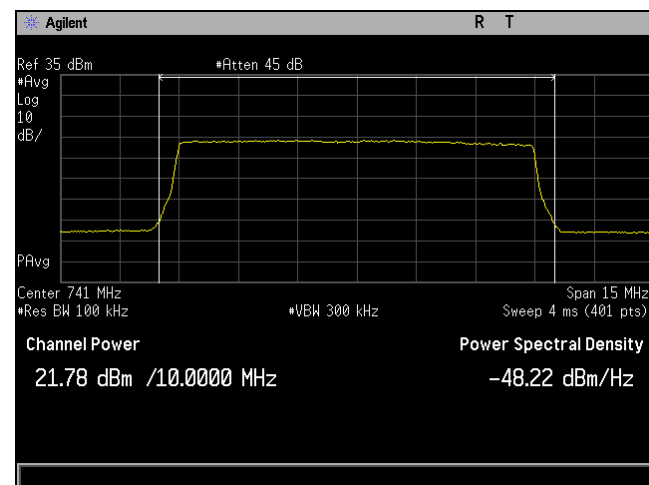
Plot 348. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Average, 10 MHz



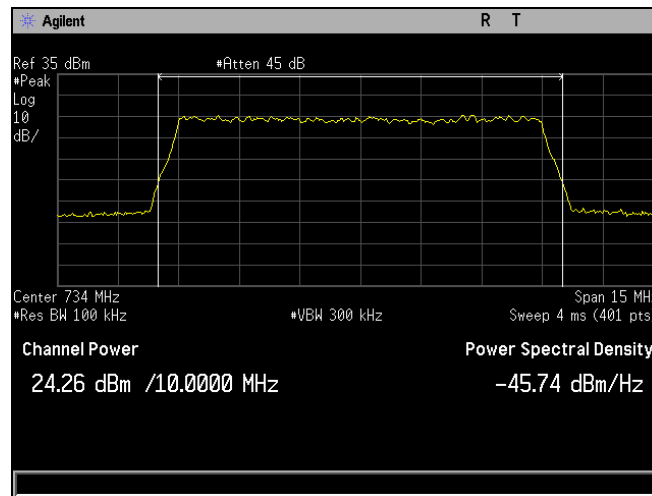
Plot 349. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Average, 10 MHz



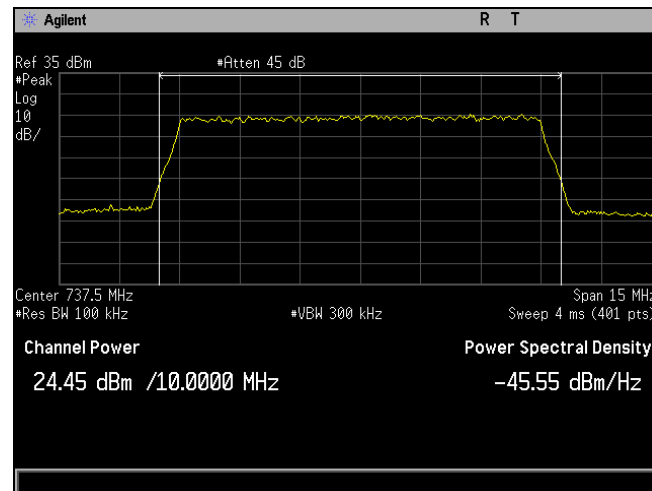
Plot 350. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Average, 10 MHz



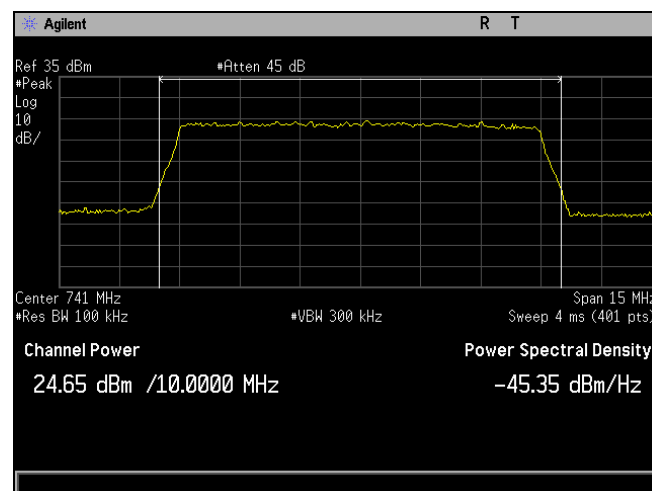
Plot 351. RF Output Power, QPSK, High Channel, Band 12, Port 2, Average, 10 MHz



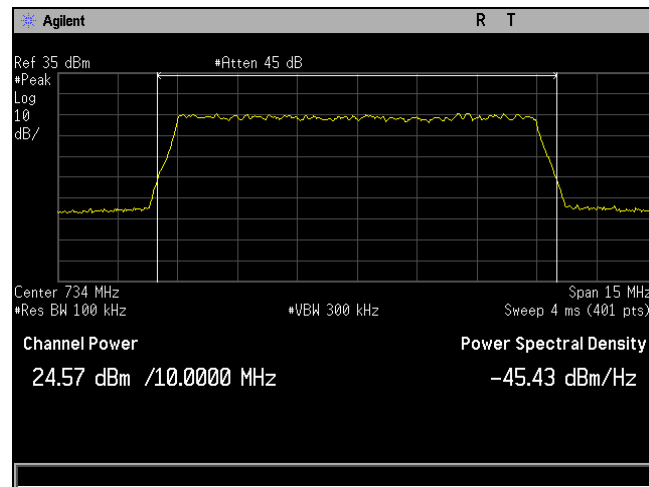
Plot 352. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Peak, 10 MHz



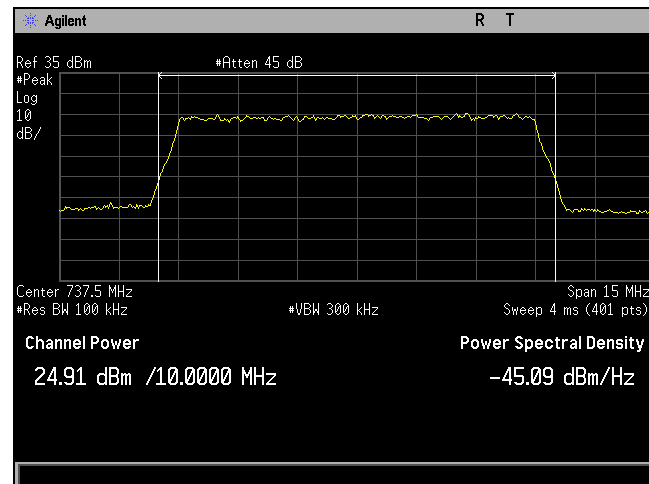
Plot 353. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Peak, 10 MHz



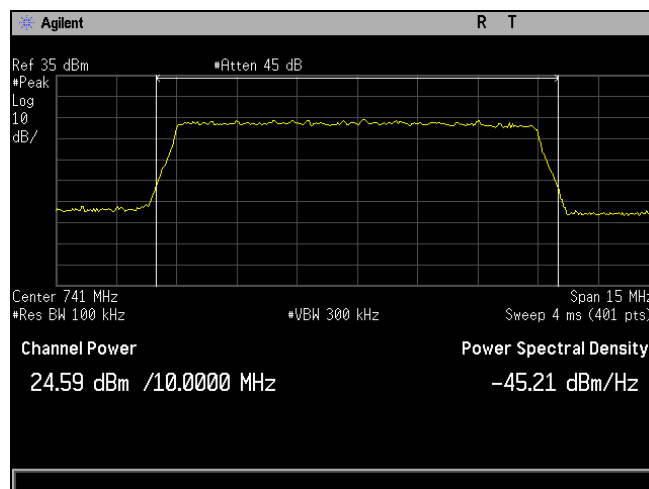
Plot 354. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Peak, 10 MHz



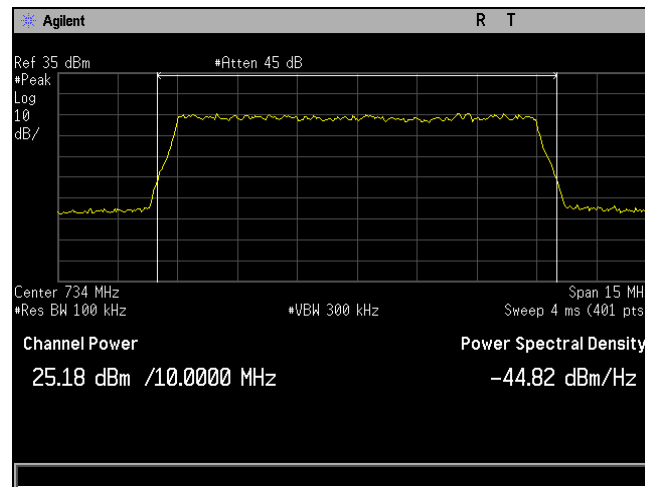
Plot 355. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Peak, 10 MHz



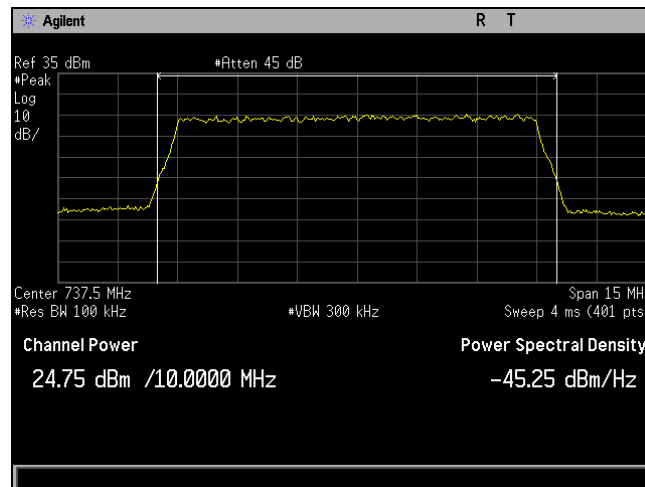
Plot 356. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Peak, 10 MHz



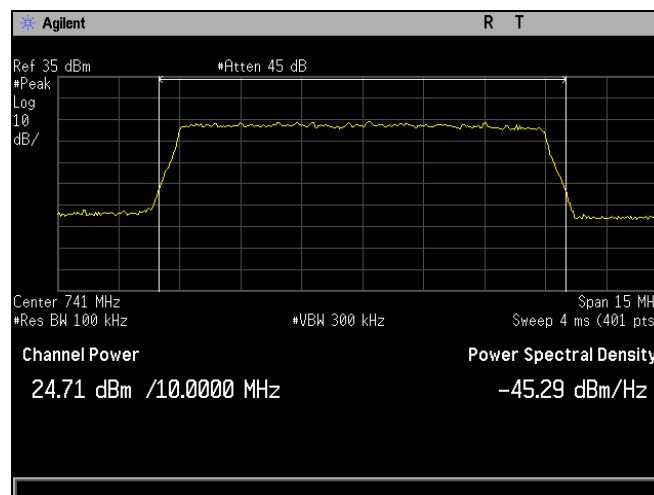
Plot 357. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Peak, 10 MHz



Plot 358. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Peak, 10 MHz

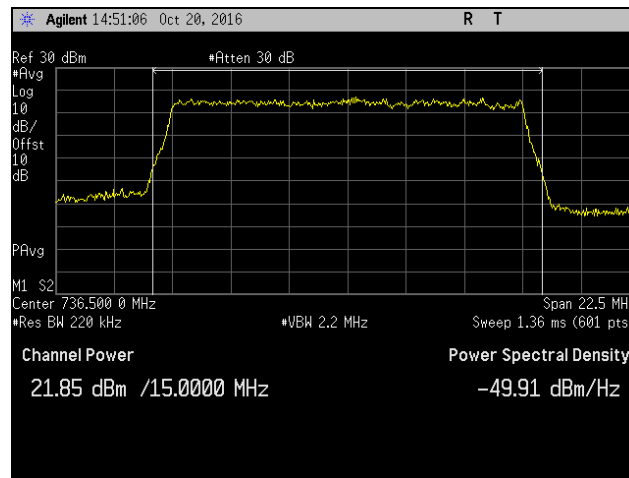


Plot 359. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Peak, 10 MHz

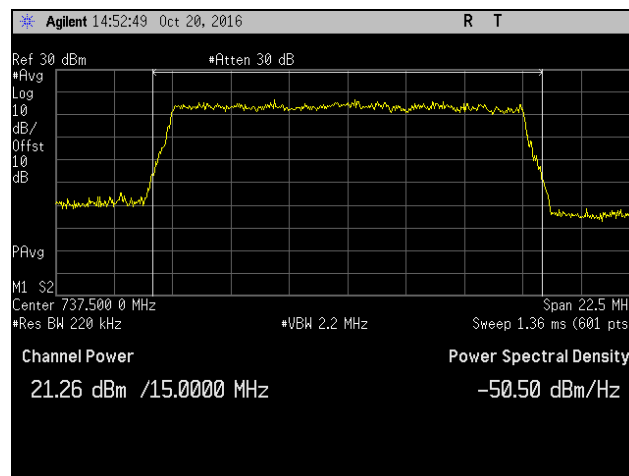


Plot 360. RF Output Power, QPSK, High Channel, Band 12, Port 2, Peak, 10 MHz

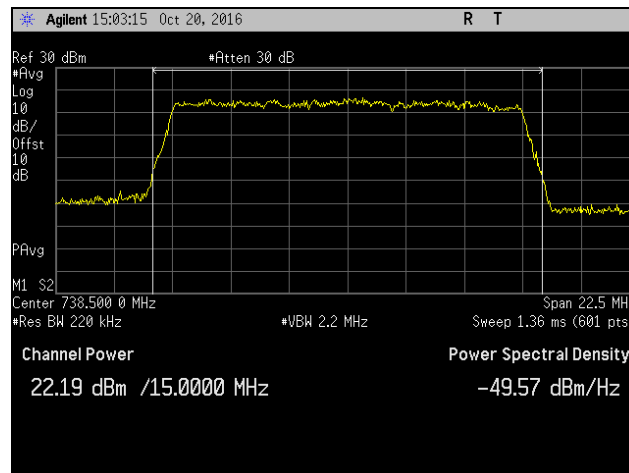
RF Output Power, Band 12, Port 1, 15 MHz



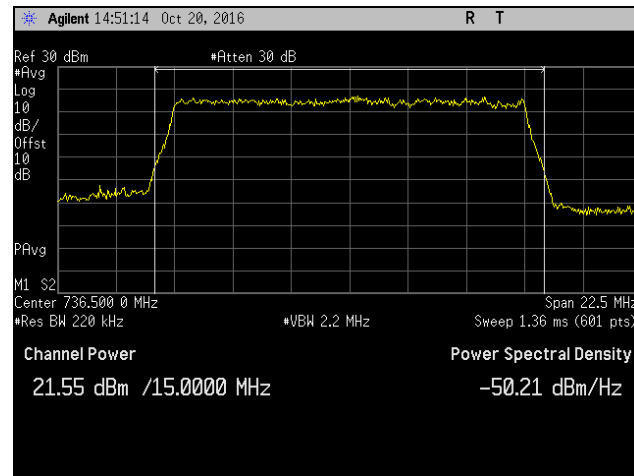
Plot 361. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Average, 15 MHz



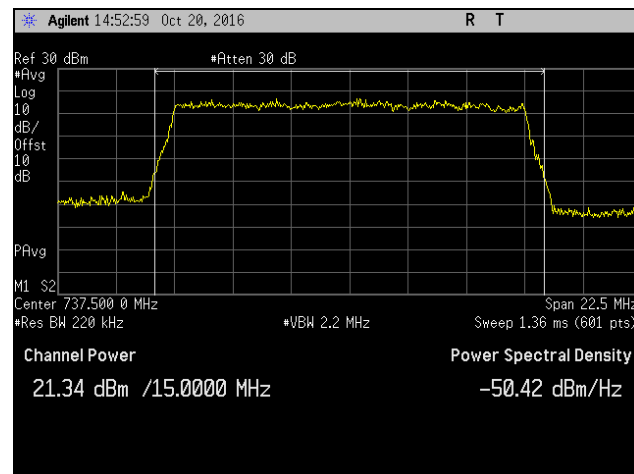
Plot 362. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Average, 15 MHz



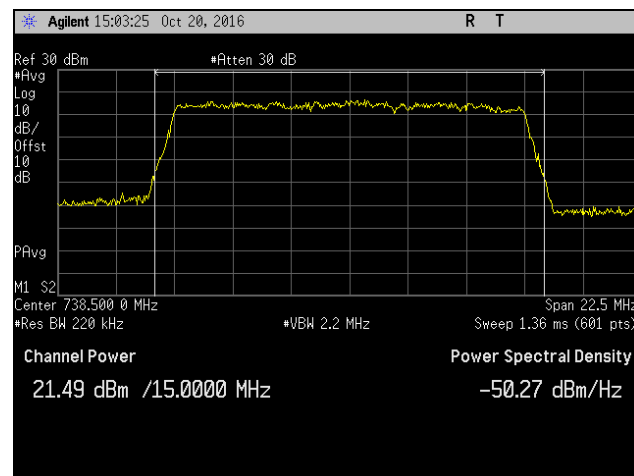
Plot 363. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Average, 15 MHz



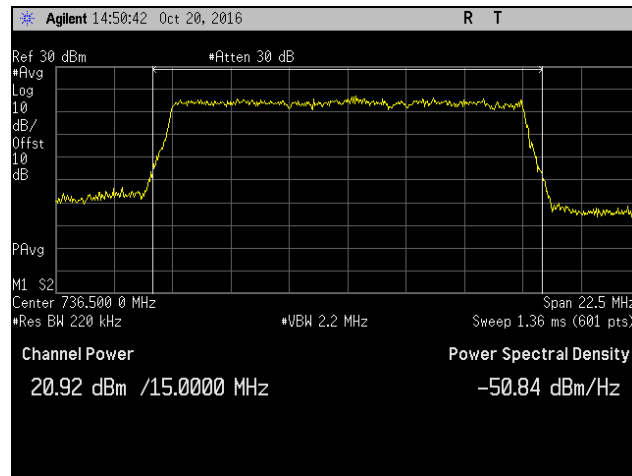
Plot 364. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Average, 15 MHz



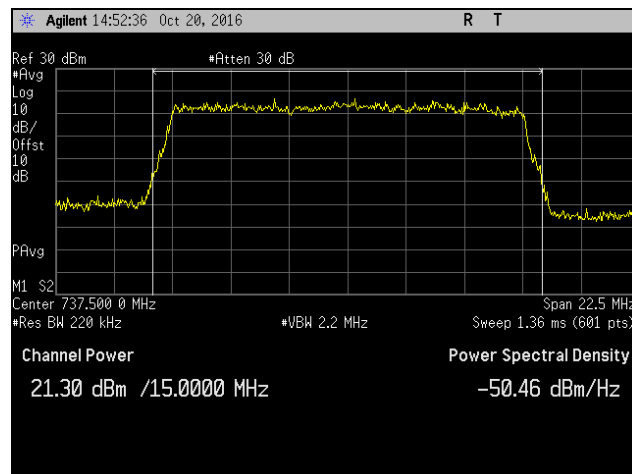
Plot 365. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Average, 15 MHz



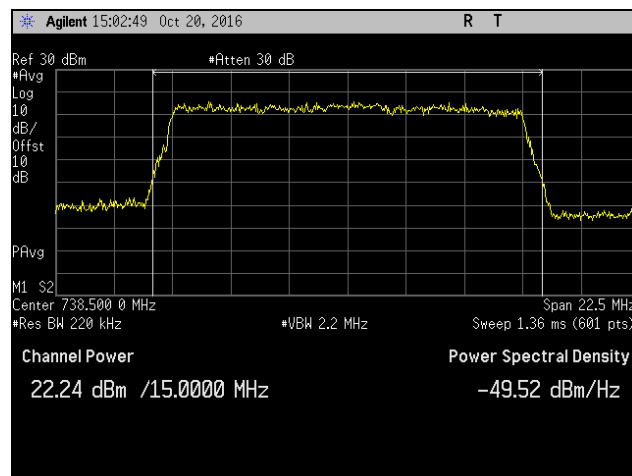
Plot 366. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Average, 15 MHz



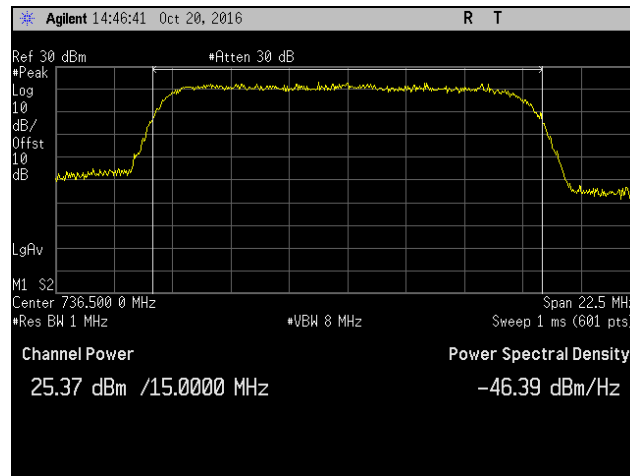
Plot 367. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Average, 15 MHz



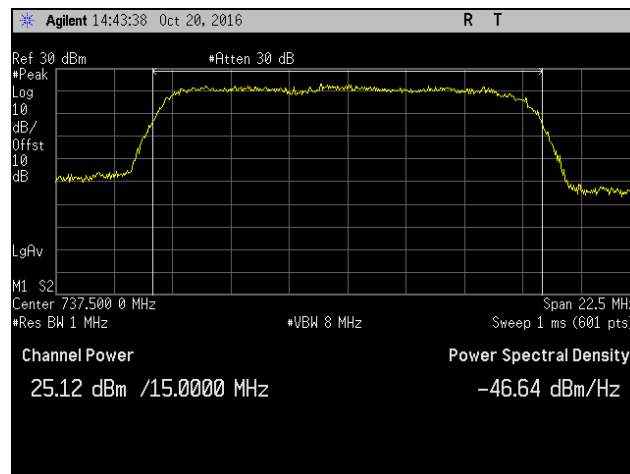
Plot 368. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Average, 15 MHz



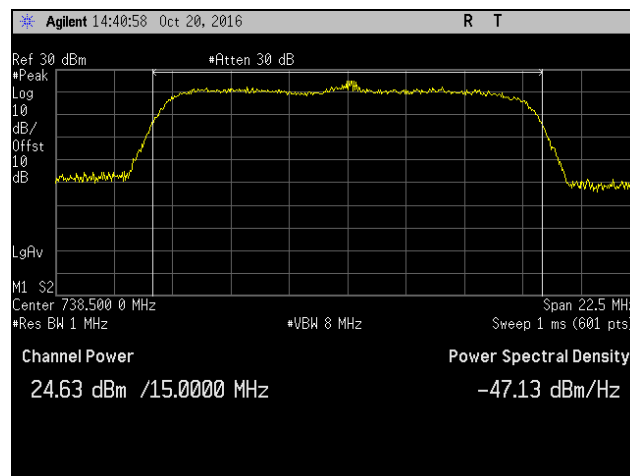
Plot 369. RF Output Power, QPSK, High Channel, Band 12, Port 1, Average, 15 MHz



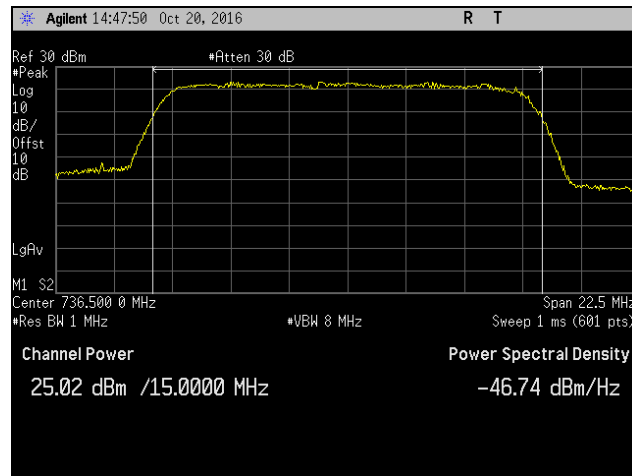
Plot 370. RF Output Power, QAM-16, Low Channel, Band 12, Port 1, Peak, 15 MHz



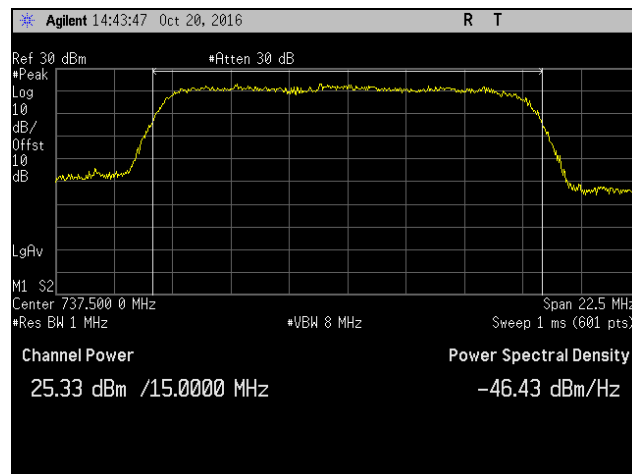
Plot 371. RF Output Power, QAM-16, Mid Channel, Band 12, Port 1, Peak, 15 MHz



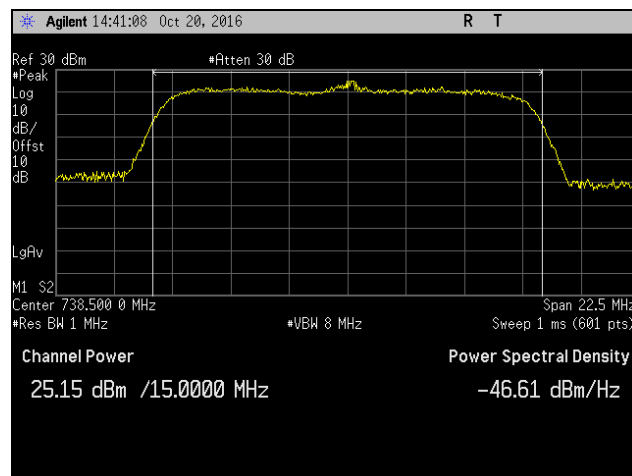
Plot 372. RF Output Power, QAM-16, High Channel, Band 12, Port 1, Peak, 15 MHz



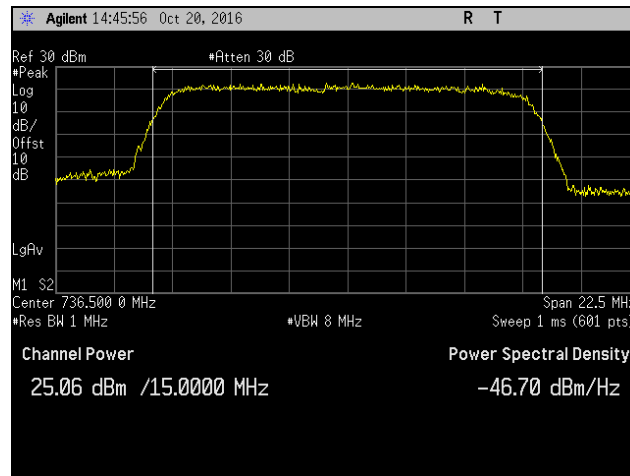
Plot 373. RF Output Power, QAM-64, Low Channel, Band 12, Port 1, Peak, 15 MHz



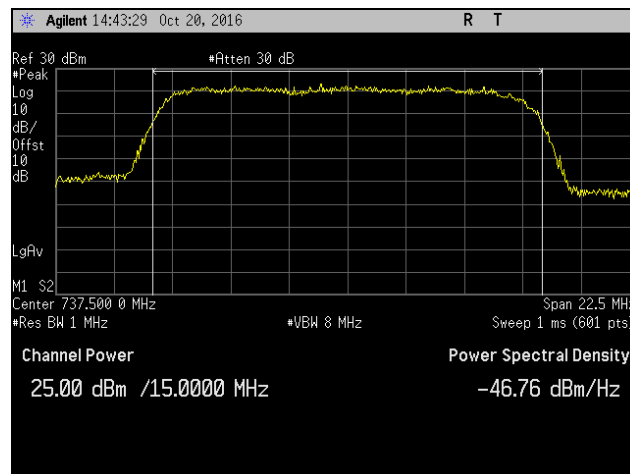
Plot 374. RF Output Power, QAM-64, Mid Channel, Band 12, Port 1, Peak, 15 MHz



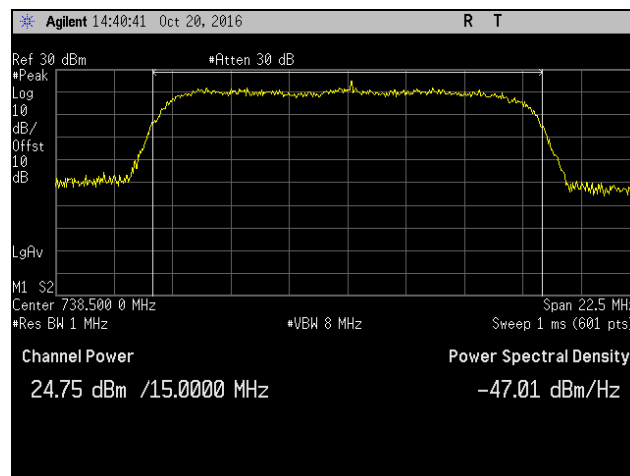
Plot 375. RF Output Power, QAM-64, High Channel, Band 12, Port 1, Peak, 15 MHz



Plot 376. RF Output Power, QPSK, Low Channel, Band 12, Port 1, Peak, 15 MHz

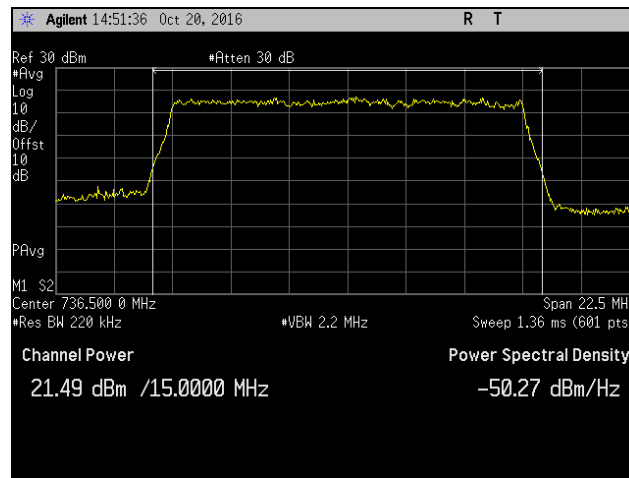


Plot 377. RF Output Power, QPSK, Mid Channel, Band 12, Port 1, Peak, 15 MHz

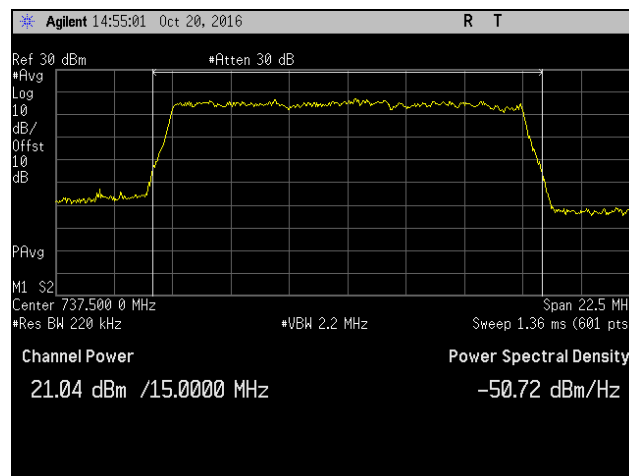


Plot 378. RF Output Power, QPSK, High Channel, Band 12, Port 1, Peak, 15 MHz

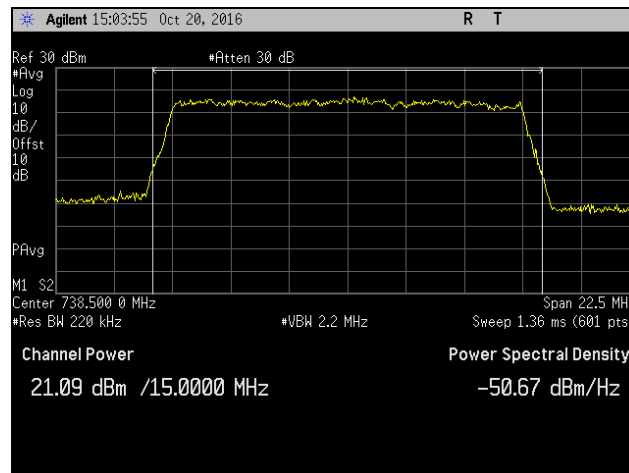
RF Output Power, Band 12, Port 2, 15 MHz



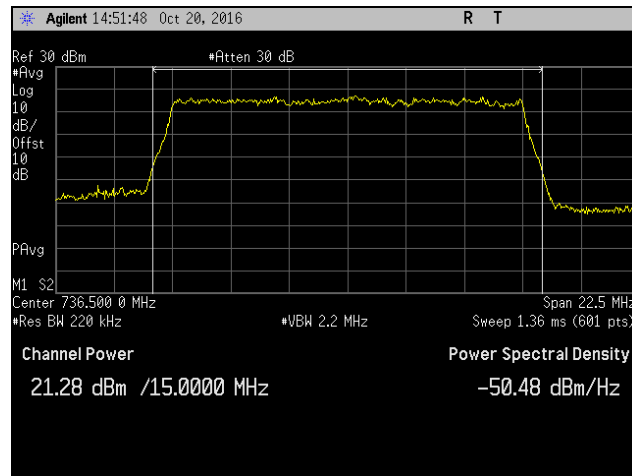
Plot 379. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Average, 15 MHz



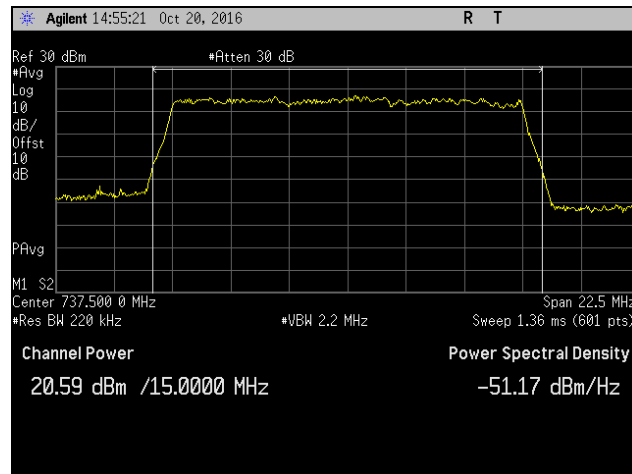
Plot 380. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Average, 15 MHz



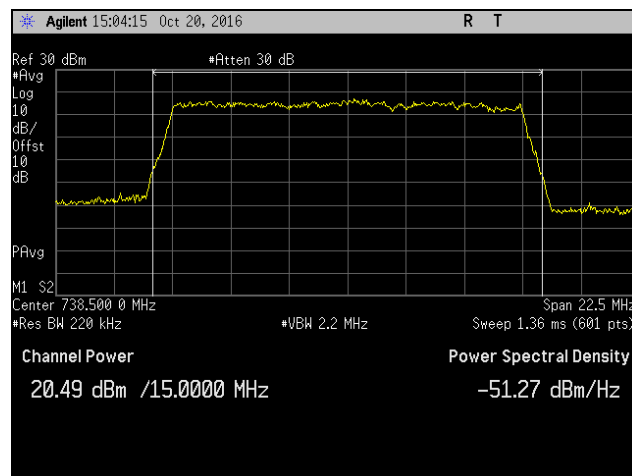
Plot 381. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Average, 15 MHz



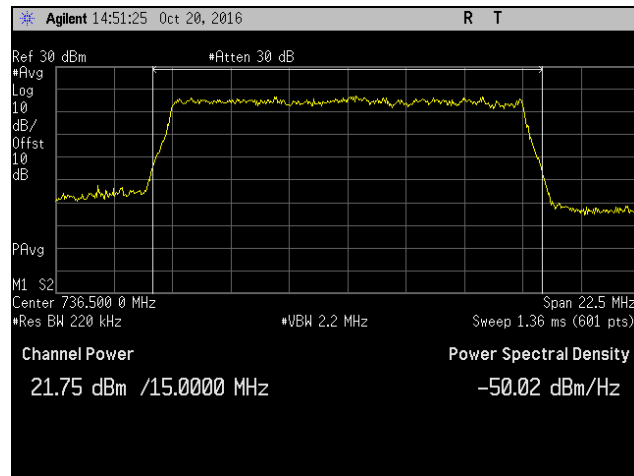
Plot 382. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Average, 15 MHz



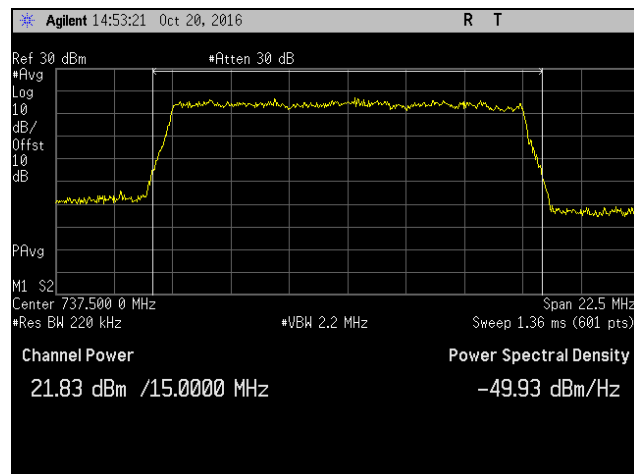
Plot 383. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Average, 15 MHz



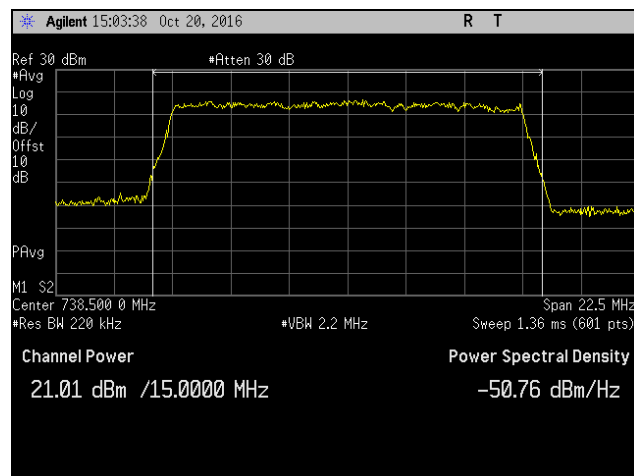
Plot 384. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Average, 15 MHz



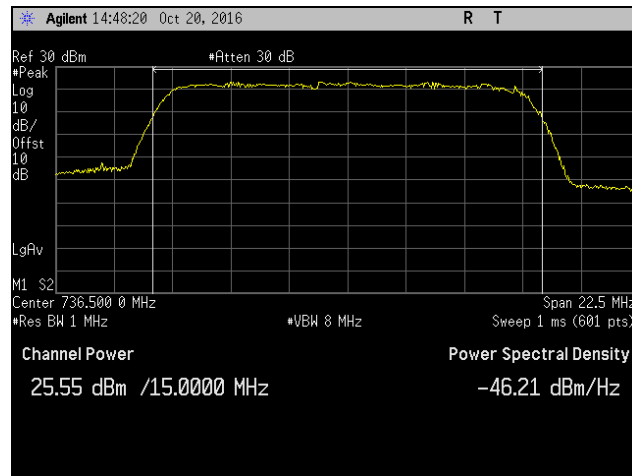
Plot 385. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Average, 15 MHz



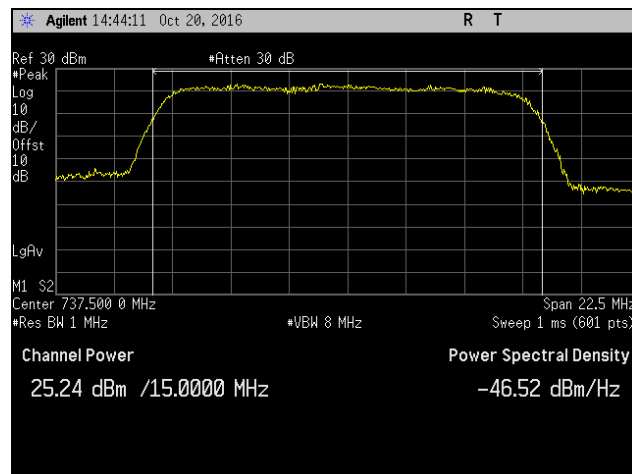
Plot 386. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Average, 15 MHz



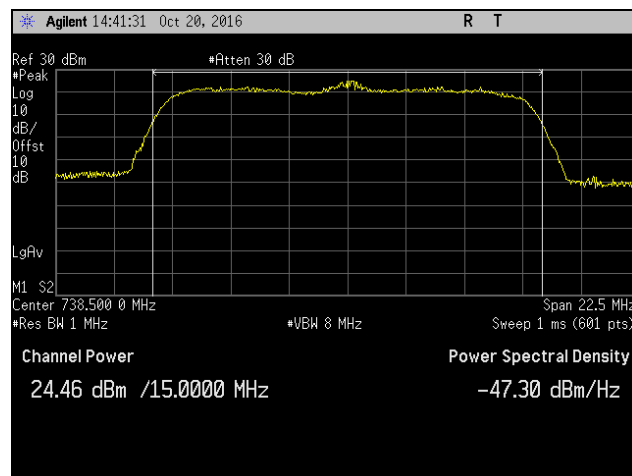
Plot 387. RF Output Power, QPSK, High Channel, Band 12, Port 2, Average, 15 MHz



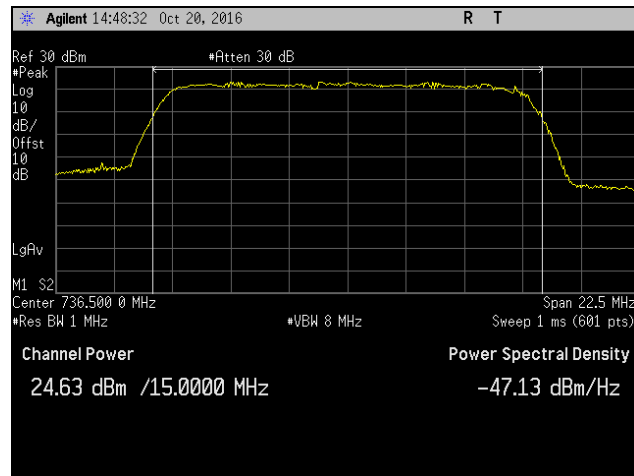
Plot 388. RF Output Power, QAM-16, Low Channel, Band 12, Port 2, Peak, 15 MHz



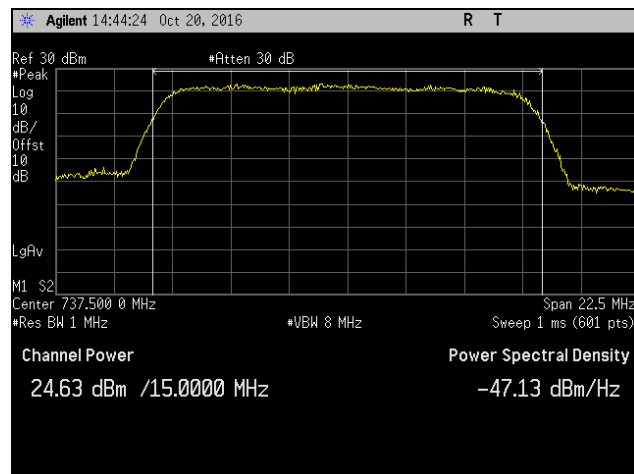
Plot 389. RF Output Power, QAM-16, Mid Channel, Band 12, Port 2, Peak, 15 MHz



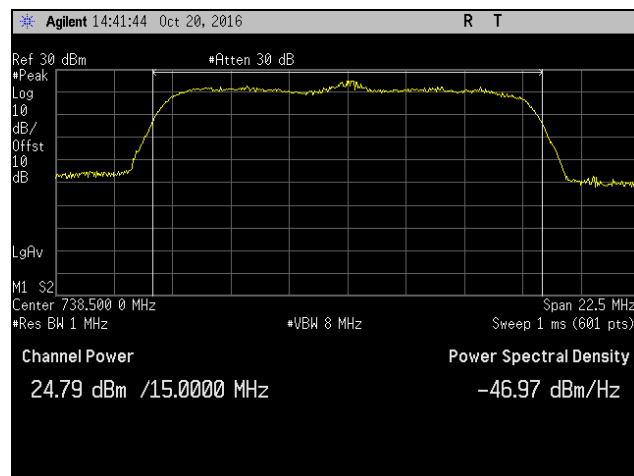
Plot 390. RF Output Power, QAM-16, High Channel, Band 12, Port 2, Peak, 15 MHz



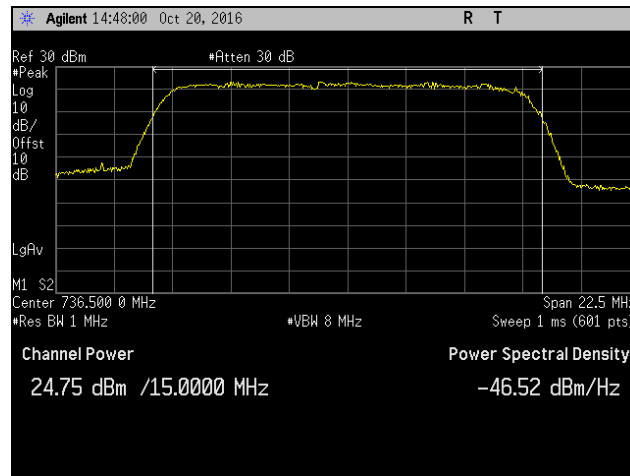
Plot 391. RF Output Power, QAM-64, Low Channel, Band 12, Port 2, Peak, 15 MHz



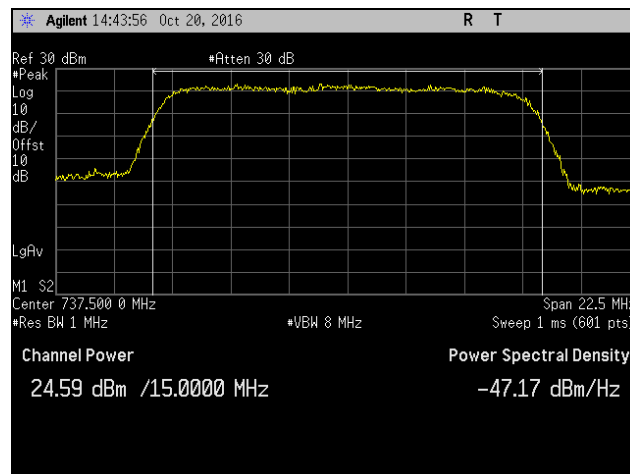
Plot 392. RF Output Power, QAM-64, Mid Channel, Band 12, Port 2, Peak, 15 MHz



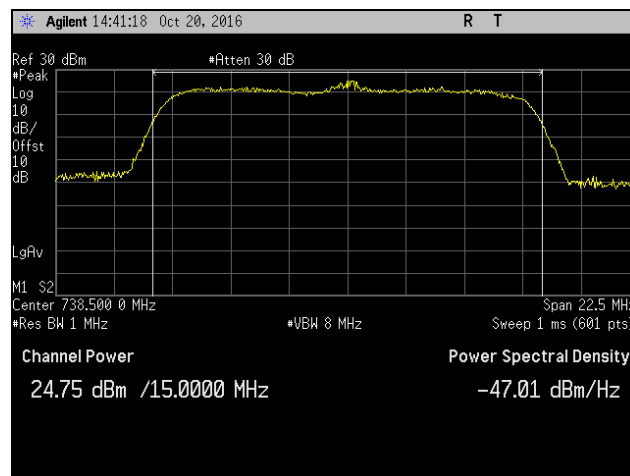
Plot 393. RF Output Power, QAM-64, High Channel, Band 12, Port 2, Peak, 15 MHz



Plot 394. RF Output Power, QPSK, Low Channel, Band 12, Port 2, Peak, 15 MHz

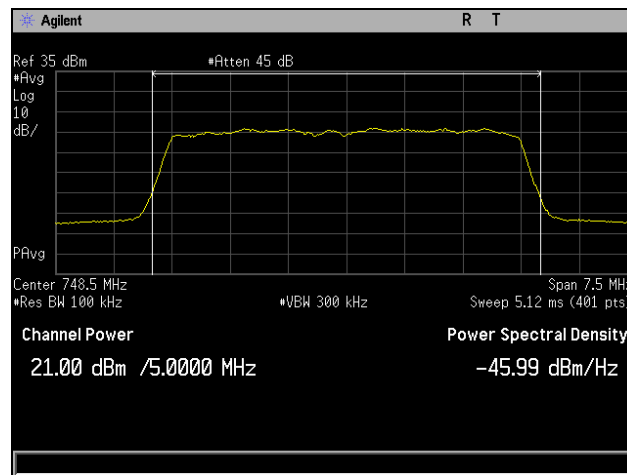


Plot 395. RF Output Power, QPSK, Mid Channel, Band 12, Port 2, Peak, 15 MHz

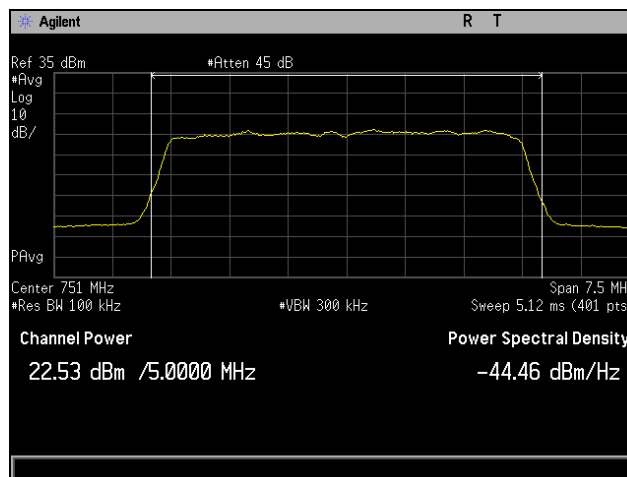


Plot 396. RF Output Power, QPSK, High Channel, Band 12, Port 2, Peak, 15 MHz

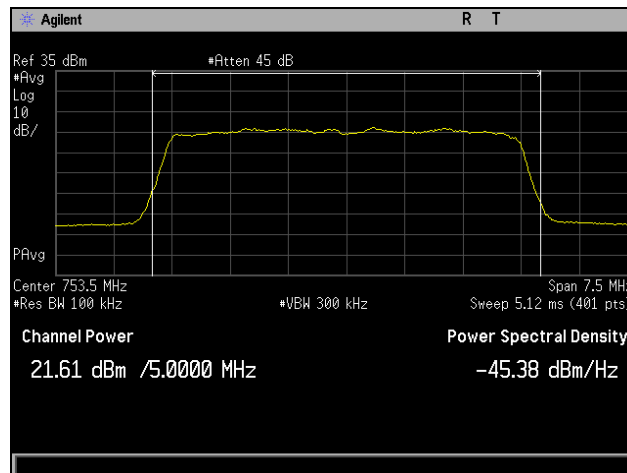
RF Output Power, Band 13, Port 1, 5 MHz



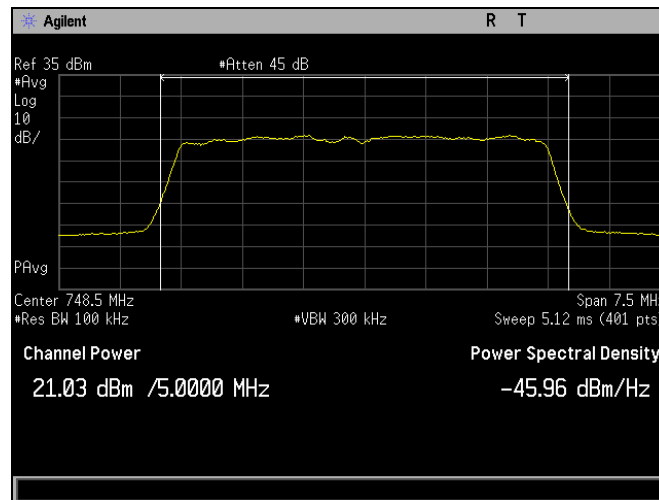
Plot 397. RF Output Power, QAM-16, Low Channel, Band 13, Port 1, Average, 5 MHz



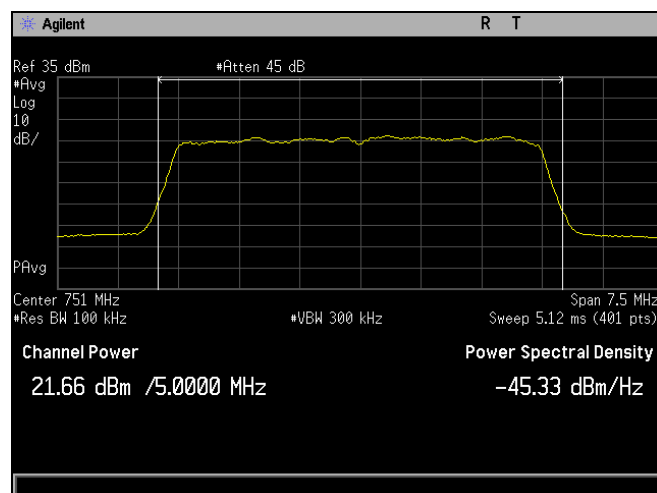
Plot 398. RF Output Power, QAM-16, Mid Channel, Band 13, Port 1, Average, 5 MHz



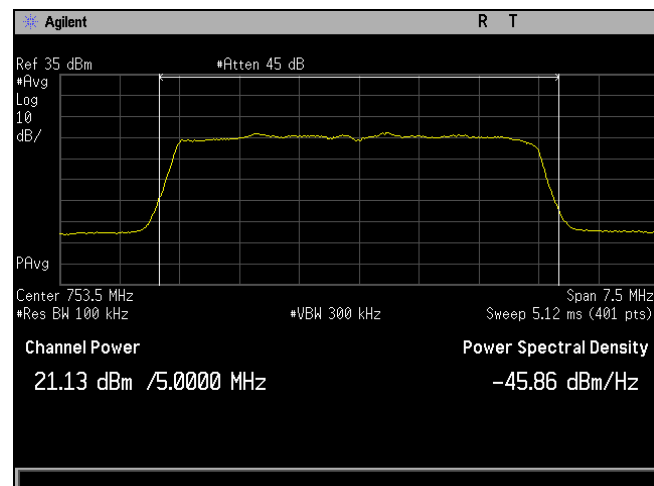
Plot 399. RF Output Power, QAM-16, High Channel, Band 13, Port 1, Average, 5 MHz



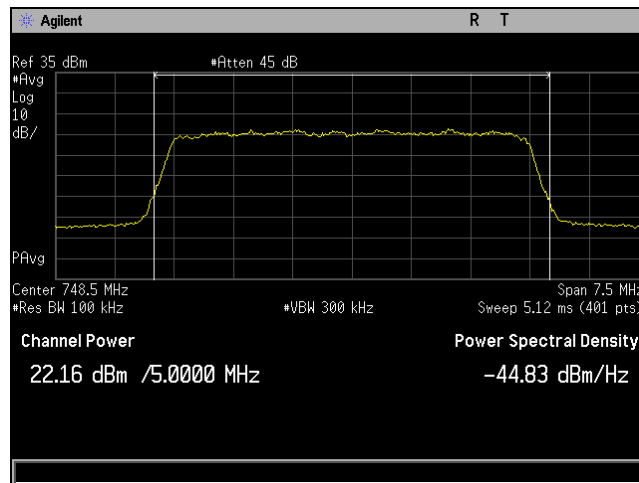
Plot 400. RF Output Power, QAM-64, Low Channel, Band 13, Port 1, Average, 5 MHz



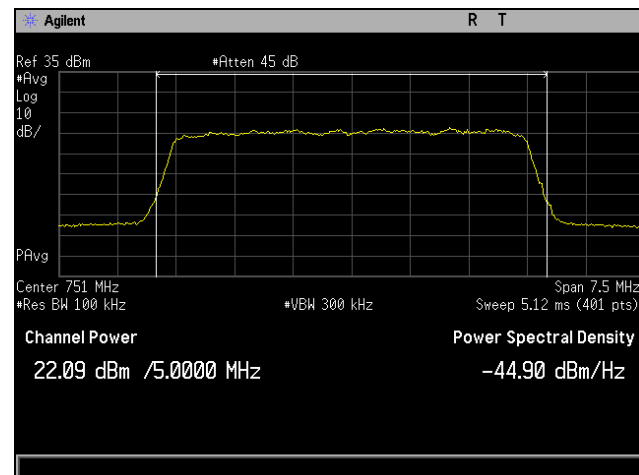
Plot 401. RF Output Power, QAM-64, Mid Channel, Band 13, Port 1, Average, 5 MHz



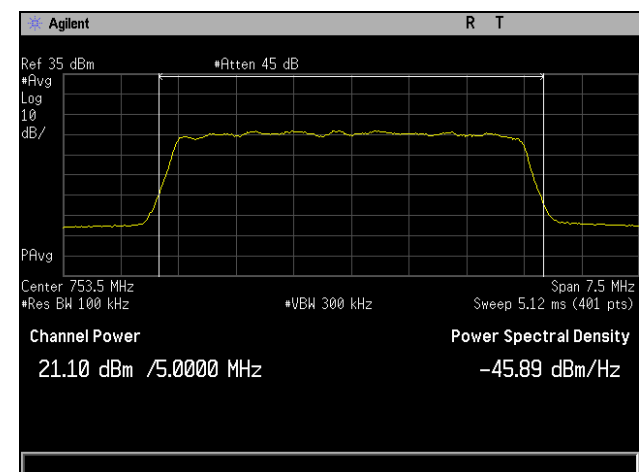
Plot 402. RF Output Power, QAM-64, High Channel, Band 13, Port 1, Average, 5 MHz



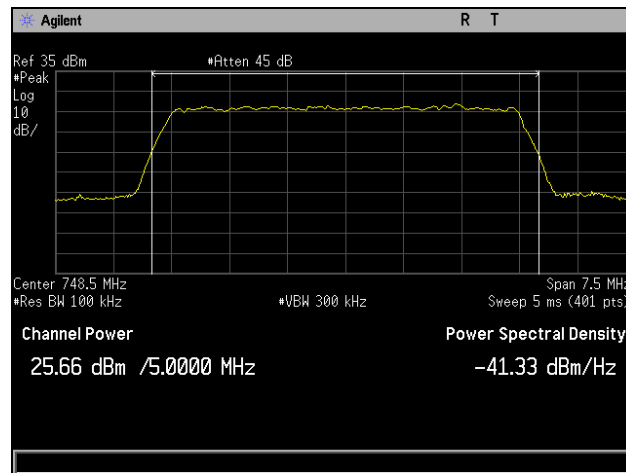
Plot 403. RF Output Power, QPSK, Low Channel, Band 13, Port 1, Average, 5 MHz



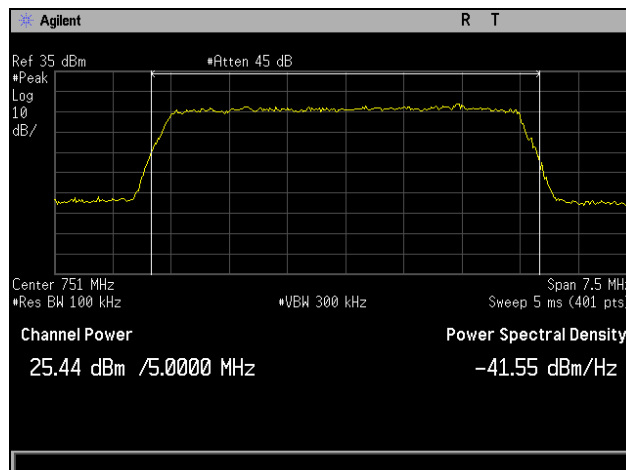
Plot 404. RF Output Power, QPSK, Mid Channel, Band 13, Port 1, Average, 5 MHz



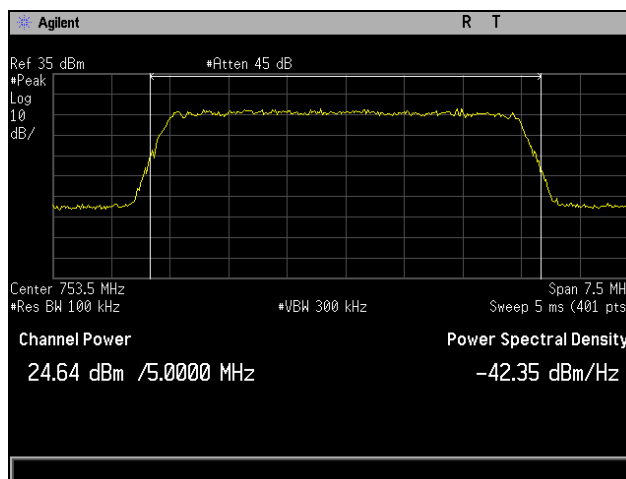
Plot 405. RF Output Power, QPSK, High Channel, Band 13, Port 1, Average, 5 MHz



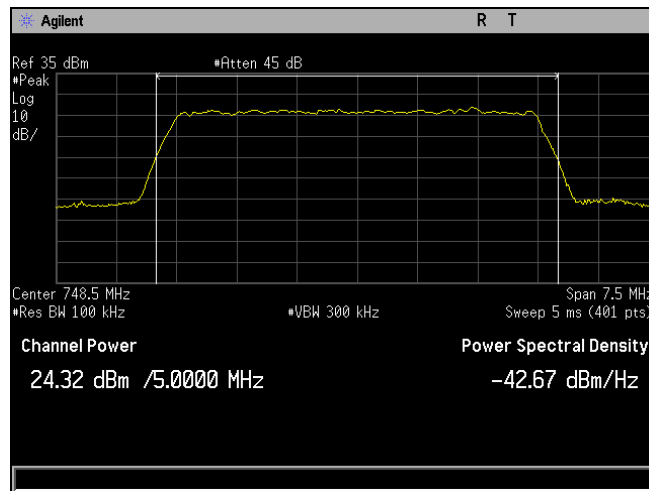
Plot 406. RF Output Power, QAM-16, Low Channel, Band 13, Port 1, Peak, 5 MHz



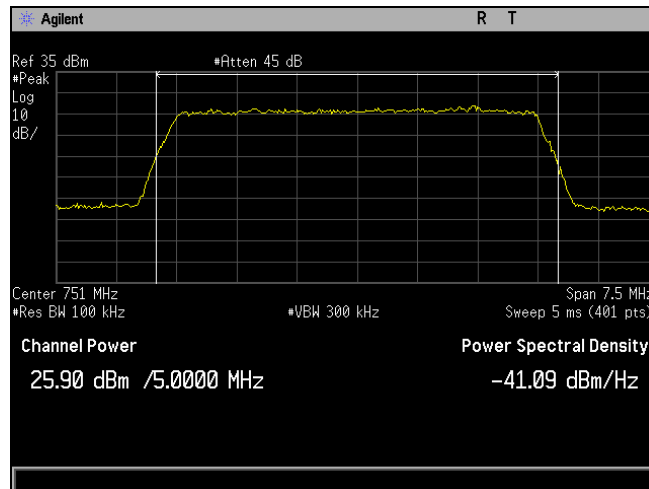
Plot 407. RF Output Power, QAM-16, Mid Channel, Band 13, Port 1, Peak, 5 MHz



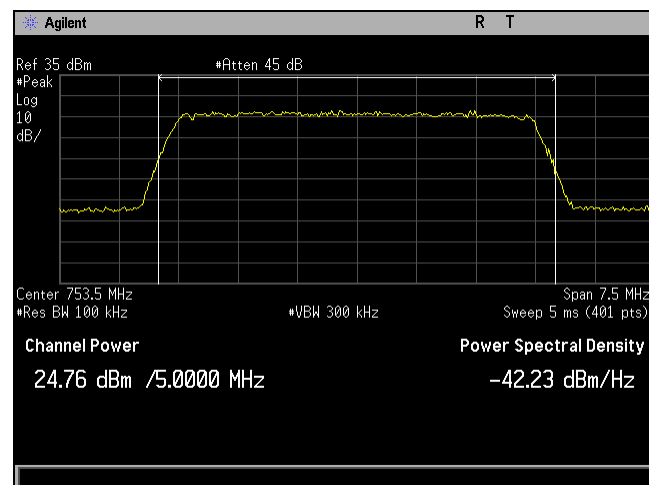
Plot 408. RF Output Power, QAM-16, High Channel, Band 13, Port 1, Peak, 5 MHz



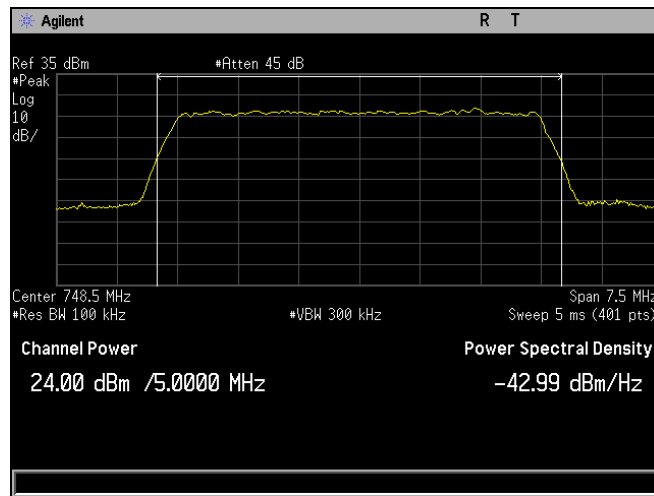
Plot 409. RF Output Power, QAM-64, Low Channel, Band 13, Port 1, Peak, 5 MHz



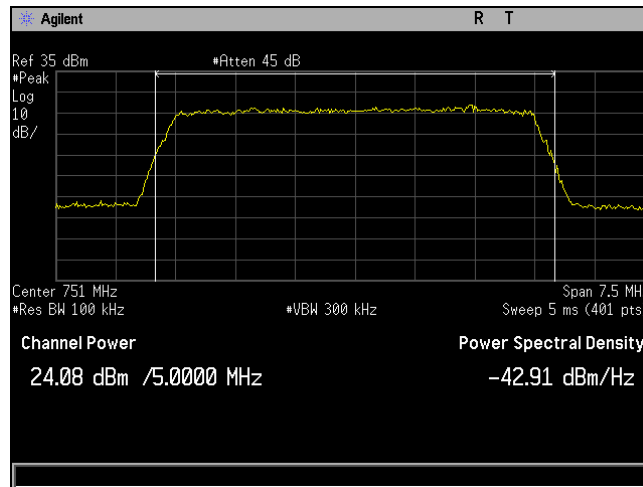
Plot 410. RF Output Power, QAM-64, Mid Channel, Band 13, Port 1, Peak, 5 MHz



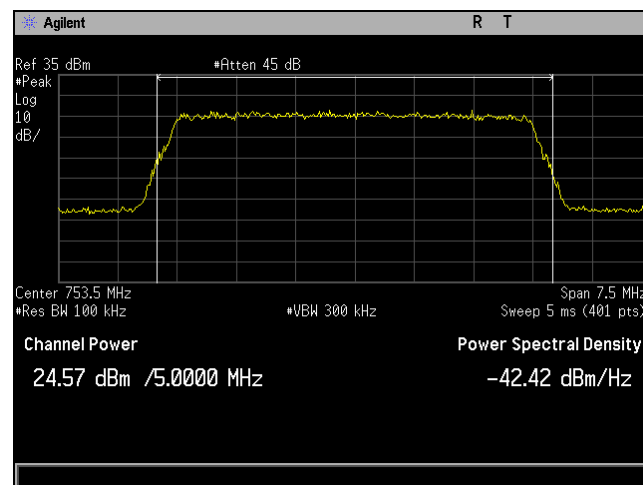
Plot 411. RF Output Power, QAM-64, High Channel, Band 13, Port 1, Peak, 5 MHz



Plot 412. RF Output Power, QPSK, Low Channel, Band 13, Port 1, Peak, 5 MHz

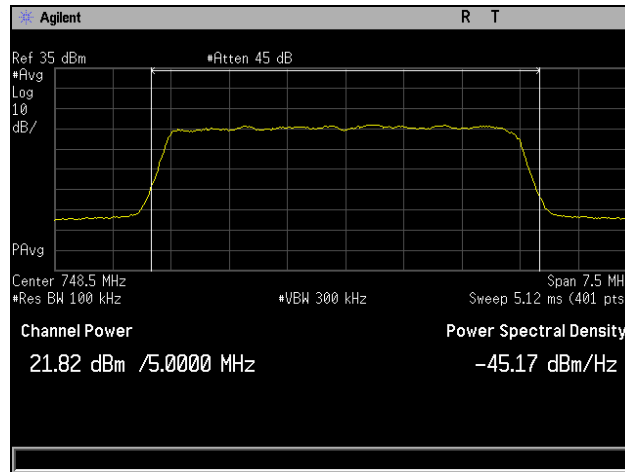


Plot 413. RF Output Power, QPSK, Mid Channel, Band 13, Port 1, Peak, 5 MHz

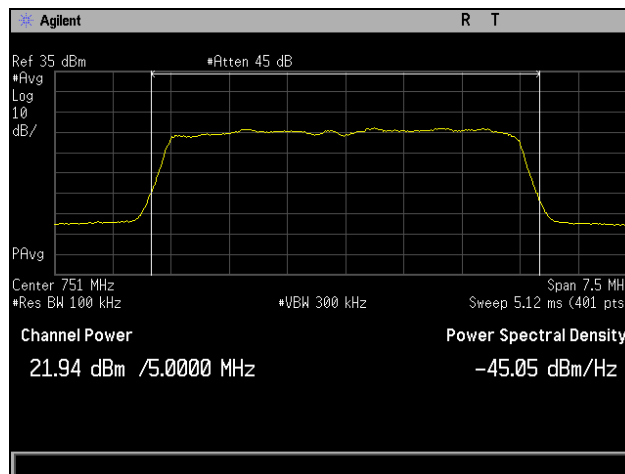


Plot 414. RF Output Power, QPSK, High Channel, Band 13, Port 1, Peak, 5 MHz

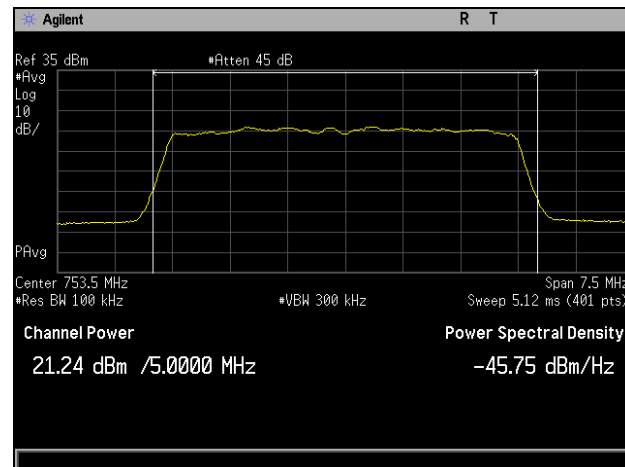
RF Output Power, Band 13, Port 2, 5 MHz



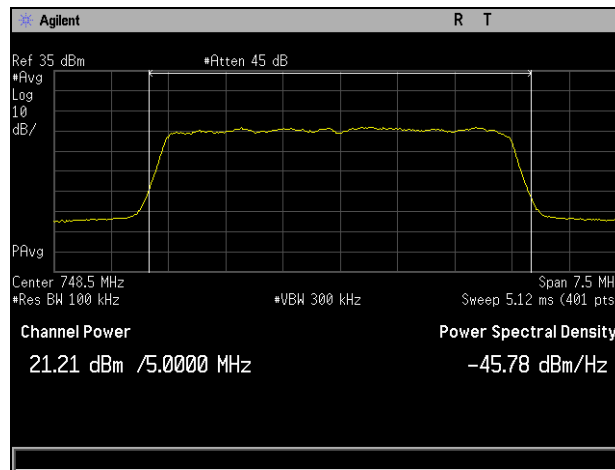
Plot 415. RF Output Power, QAM-16, Low Channel, Band 13, Port 2, Average, 5 MHz



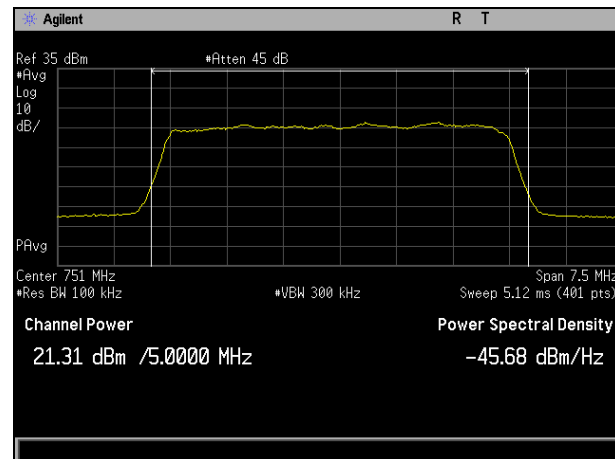
Plot 416. RF Output Power, QAM-16, Mid Channel, Band 13, Port 2, Average, 5 MHz



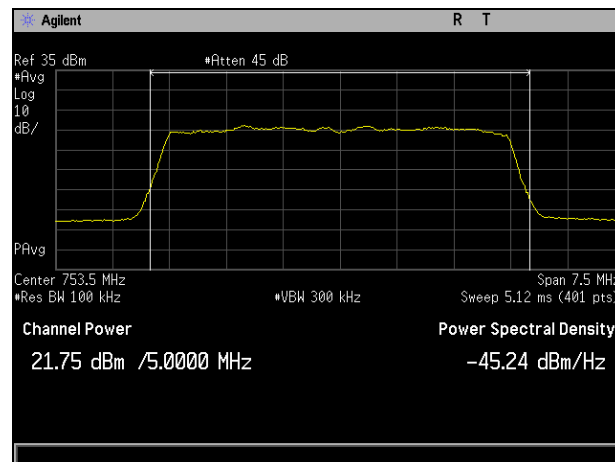
Plot 417. RF Output Power, QAM-16, High Channel, Band 13, Port 2, Average, 5 MHz



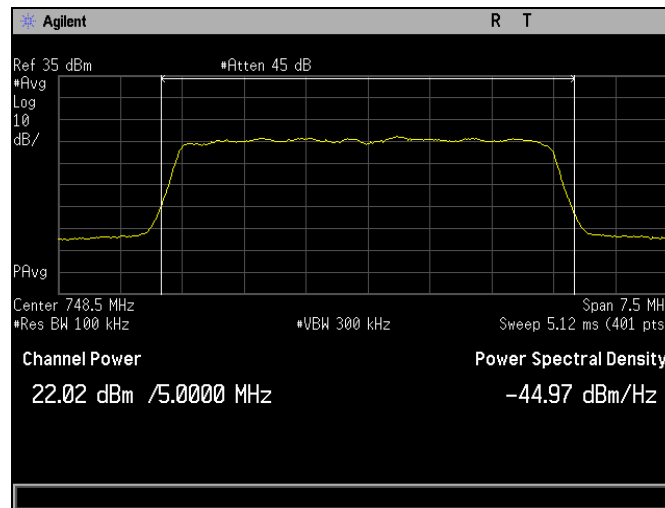
Plot 418. RF Output Power, QAM-64, Low Channel, Band 13, Port 2, Average, 5 MHz



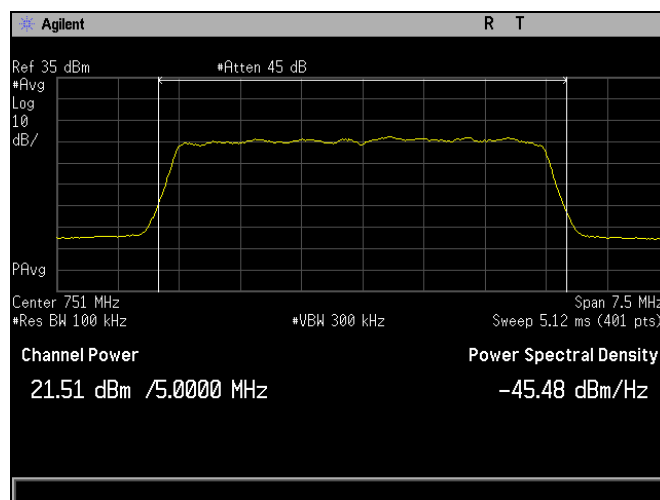
Plot 419. RF Output Power, QAM-64, Mid Channel, Band 13, Port 2, Average, 5 MHz



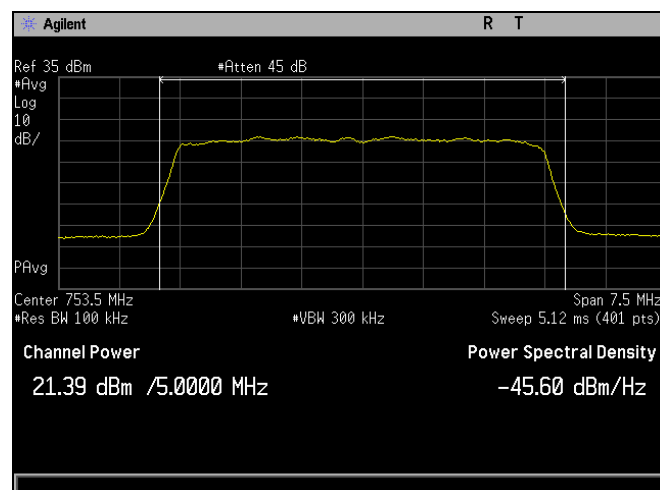
Plot 420. RF Output Power, QAM-64, High Channel, Band 13, Port 2, Average, 5 MHz



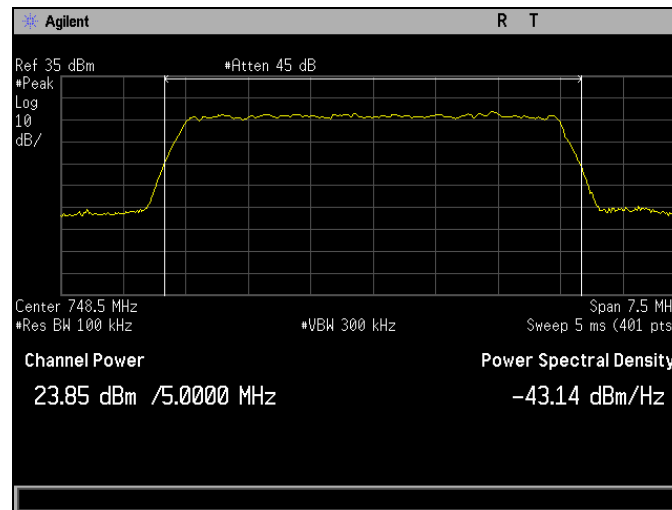
Plot 421. RF Output Power, QPSK, Low Channel, Band 13, Port 2, Average, 5 MHz



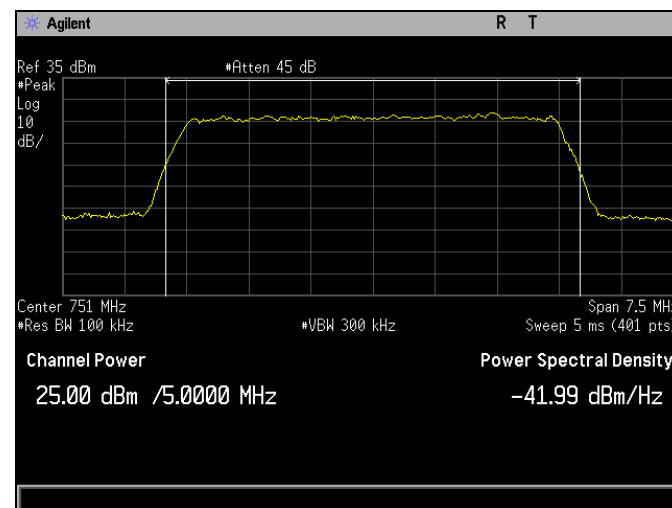
Plot 422. RF Output Power, QPSK, Mid Channel, Band 13, Port 2, Average, 5 MHz



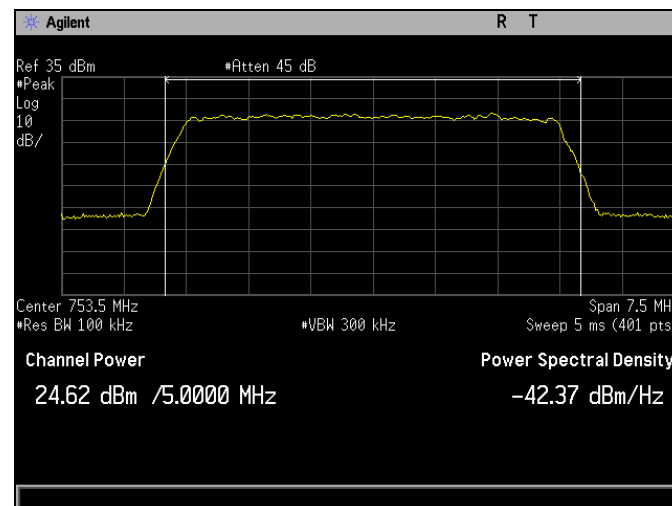
Plot 423. RF Output Power, QPSK, High Channel, Band 13, Port 2, Average, 5 MHz



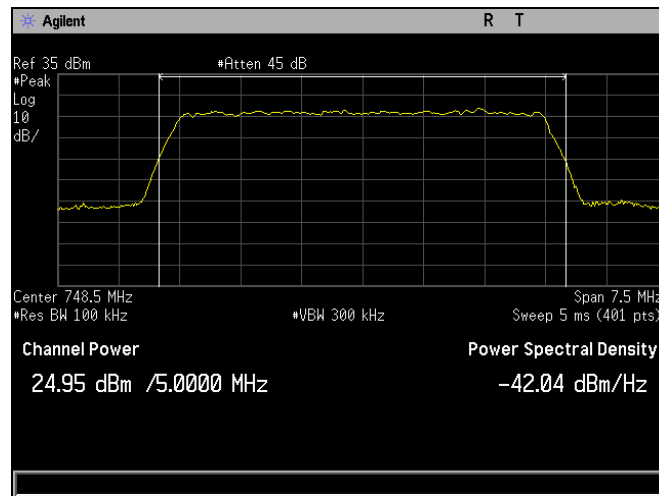
Plot 424. RF Output Power, QAM-16, Low Channel, Band 13, Port 2, Peak, 5 MHz



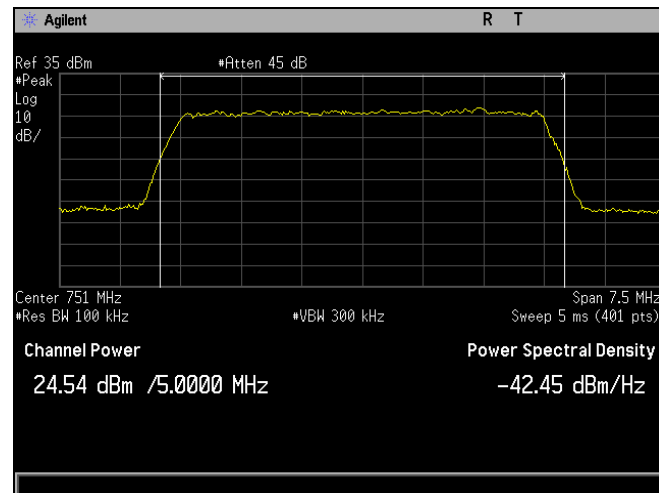
Plot 425. RF Output Power, QAM-16, Mid Channel, Band 13, Port 2, Peak, 5 MHz



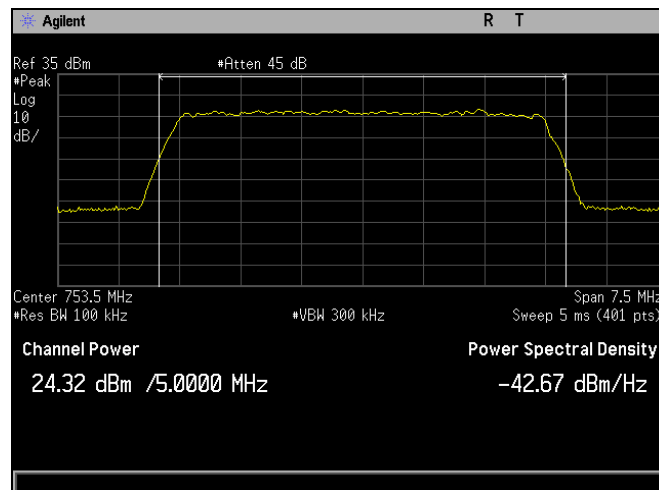
Plot 426. RF Output Power, QAM-16, High Channel, Band 13, Port 2, Peak, 5 MHz



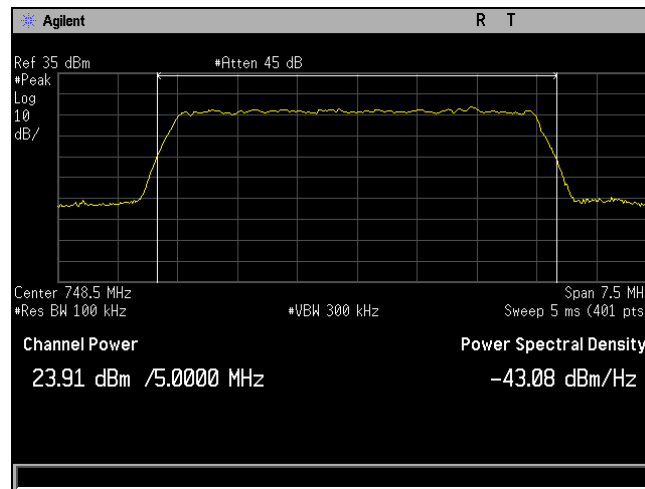
Plot 427. RF Output Power, QAM-64, Low Channel, Band 13, Port 2, Peak, 5 MHz



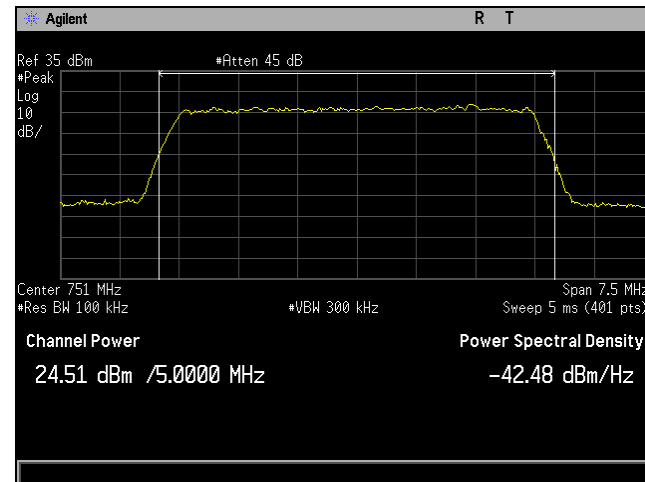
Plot 428. RF Output Power, QAM-64, Mid Channel, Band 13, Port 2, Peak, 5 MHz



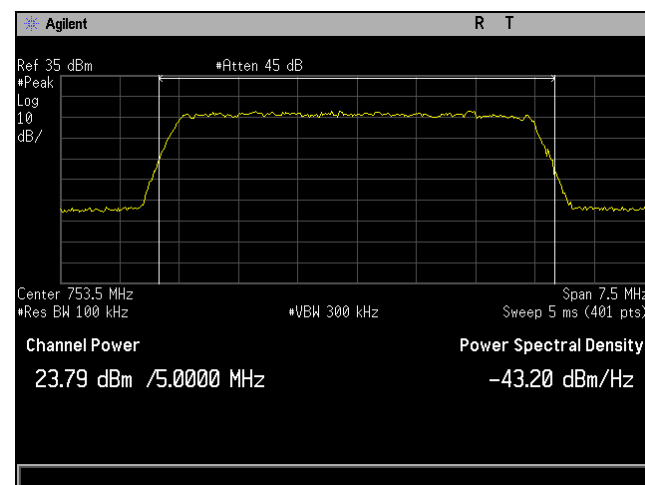
Plot 429. RF Output Power, QAM-64, High Channel, Band 13, Port 2, Peak, 5 MHz



Plot 430. RF Output Power, QPSK, Low Channel, Band 13, Port 2, Peak, 5 MHz

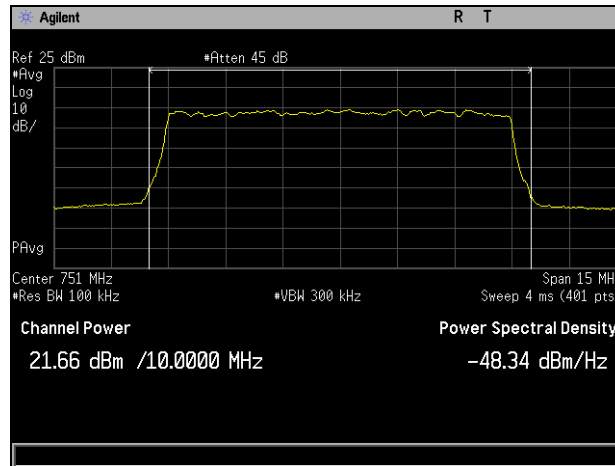


Plot 431. RF Output Power, QPSK, Mid Channel, Band 13, Port 2, Peak, 5 MHz

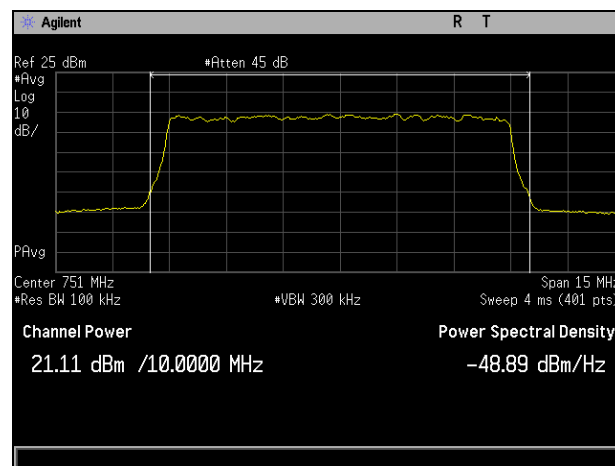


Plot 432. RF Output Power, QPSK, High Channel, Band 13, Port 2, Peak, 5 MHz

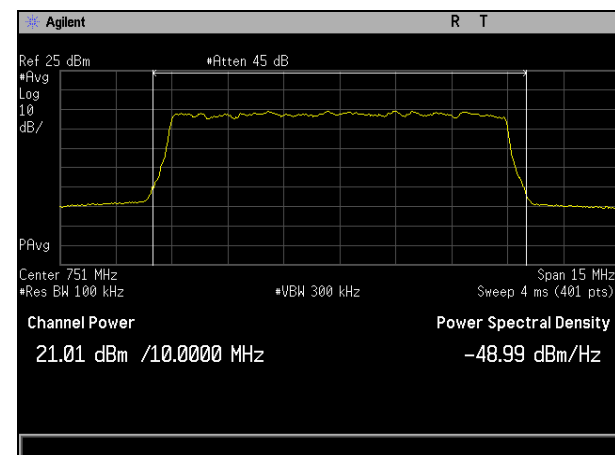
RF Output Power, Band 13, Port 1, 10 MHz



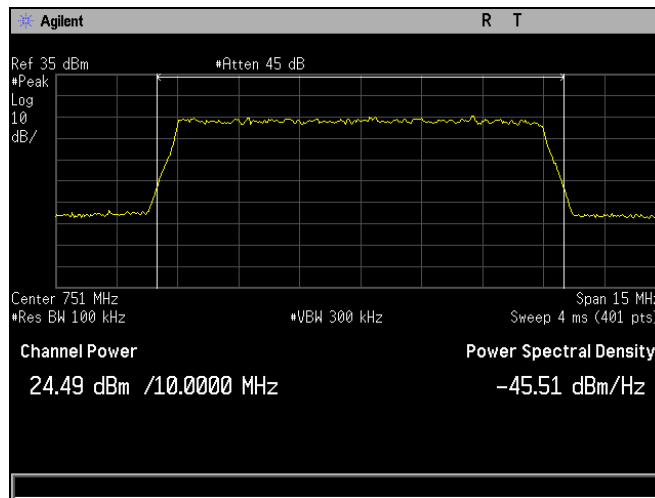
Plot 433. RF Output Power, QAM-16, Band 13, Port 1, Average, 10 MHz



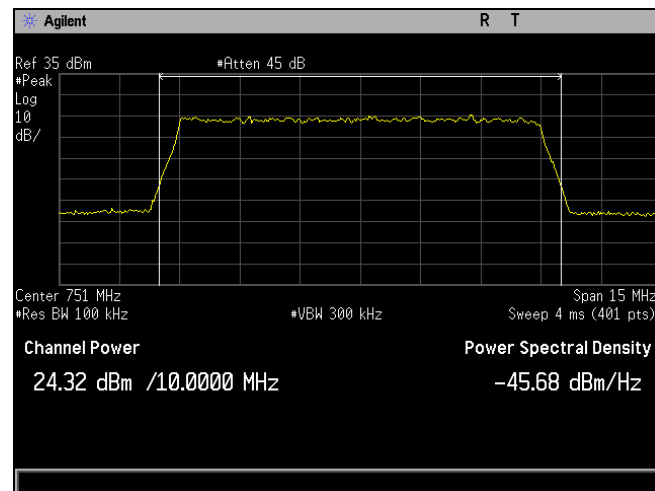
Plot 434. RF Output Power, QAM-64, Band 13, Port 1, Average, 10 MHz



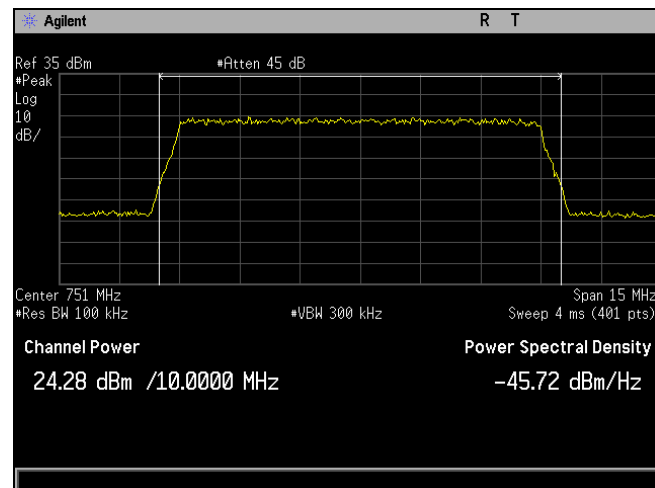
Plot 435. RF Output Power, QPSK, Band 13, Port 1, Average, 10 MHz



Plot 436. RF Output Power, QAM-16, Band 13, Port 1, Peak, 10 MHz

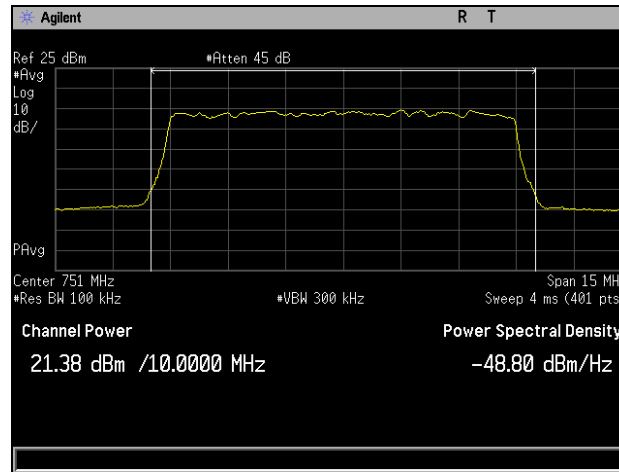


Plot 437. RF Output Power, QAM-64, Band 13, Port 1, Peak, 10 MHz

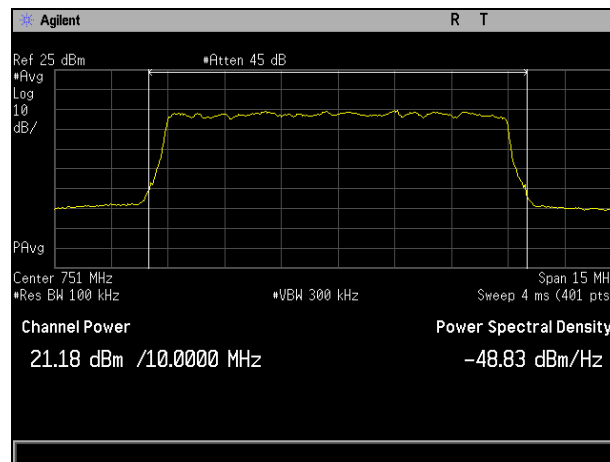


Plot 438. RF Output Power, QPSK, Band 13, Port 1, Peak, 10 MHz

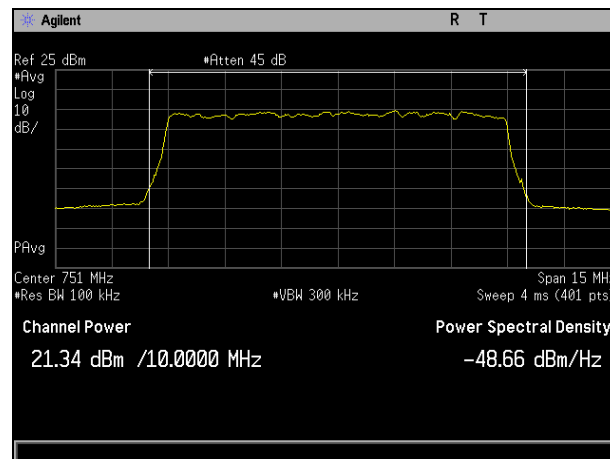
RF Output Power, Band 13, Port 2, 10 MHz



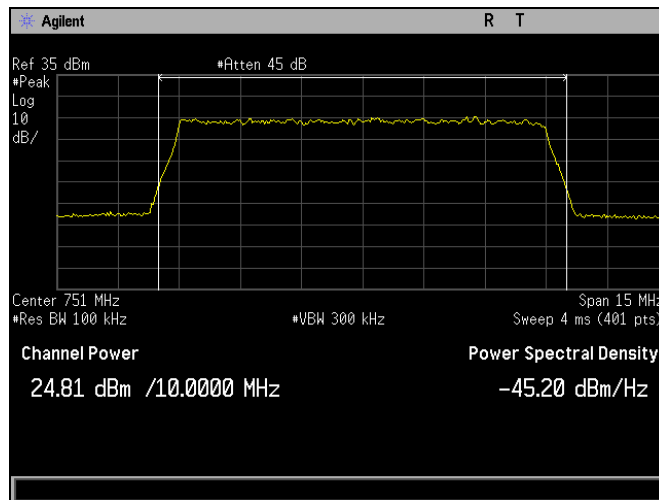
Plot 439. RF Output Power, QAM-16, Band 13, Port 2, Average, 10 MHz



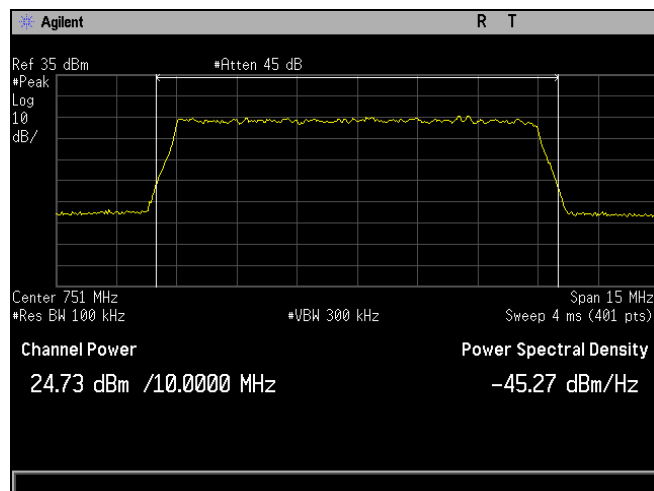
Plot 440. RF Output Power, QAM-64, Band 13, Port 2, Average, 10 MHz



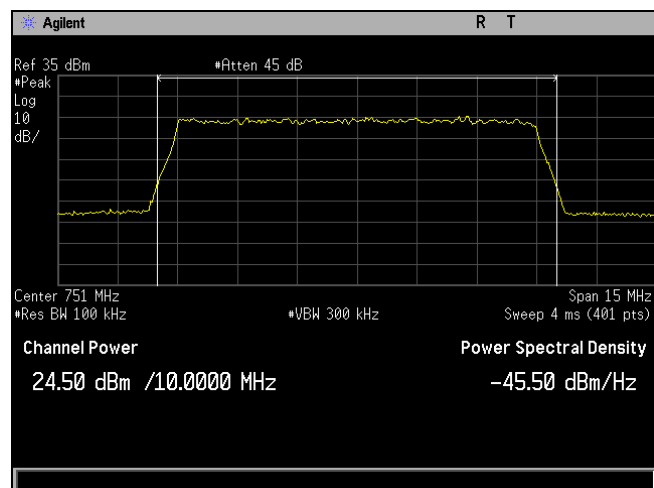
Plot 441. RF Output Power, QPSK, Band 13, Port 2, Average, 10 MHz



Plot 442. RF Output Power, QAM-16, Band 13, Port 2, Peak, 10 MHz

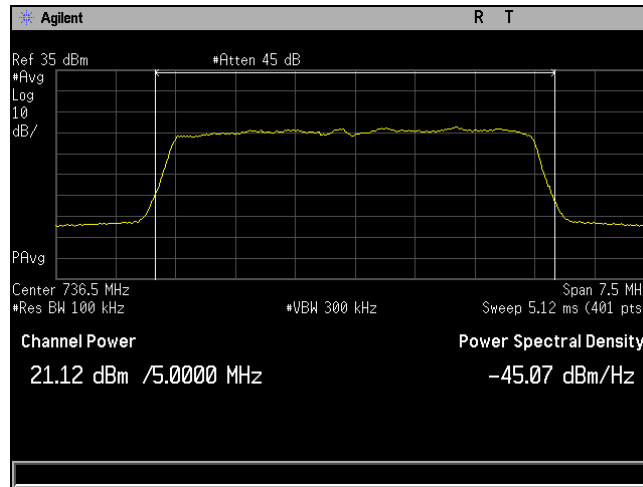


Plot 443. RF Output Power, QAM-64, Band 13, Port 2, Peak, 10 MHz

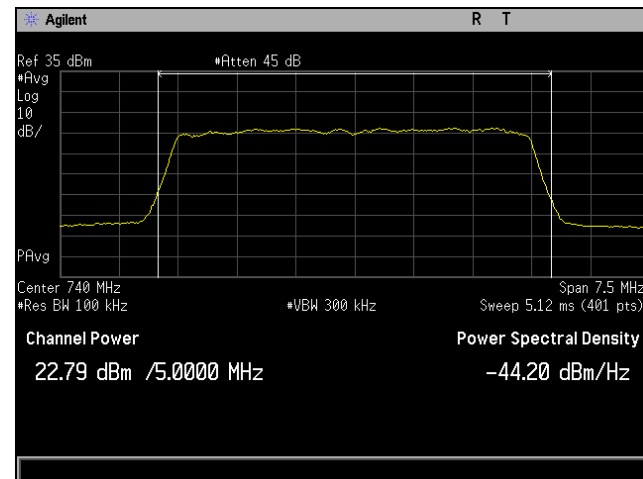


Plot 444. RF Output Power, QPSK, Band 13, Port 2, Peak, 10 MHz

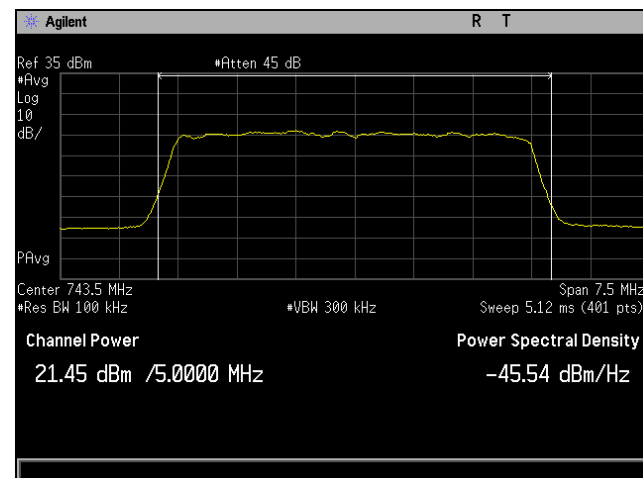
RF Output Power, Band 17, Port 1, 5 MHz



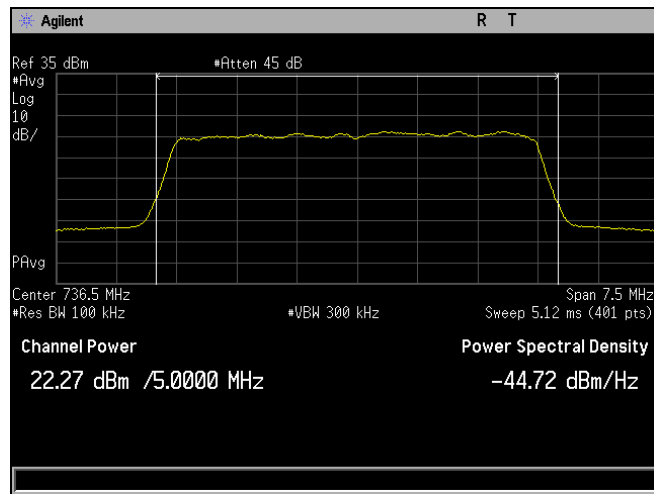
Plot 445. RF Output Power, QAM-16, Low Channel, Band 17, Port 1, Average, 5 MHz



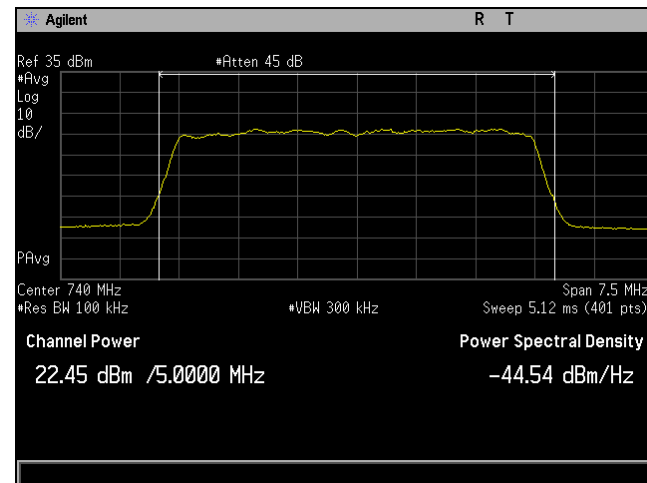
Plot 446. RF Output Power, QAM-16, Mid Channel, Band 17, Port 1, Average, 5 MHz



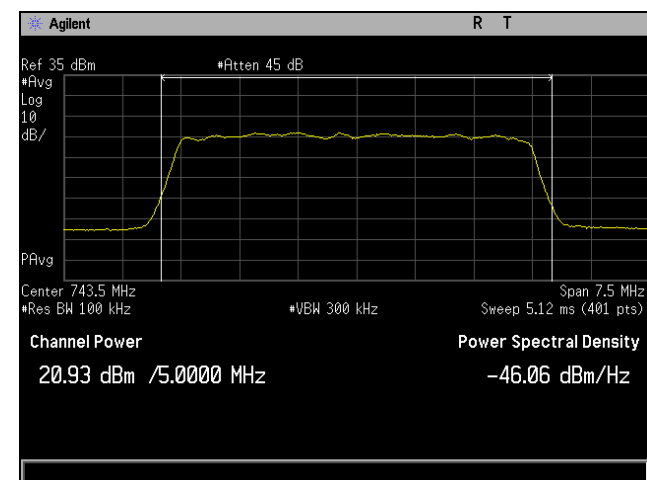
Plot 447. RF Output Power, QAM-16, High Channel, Band 17, Port 1, Average, 5 MHz



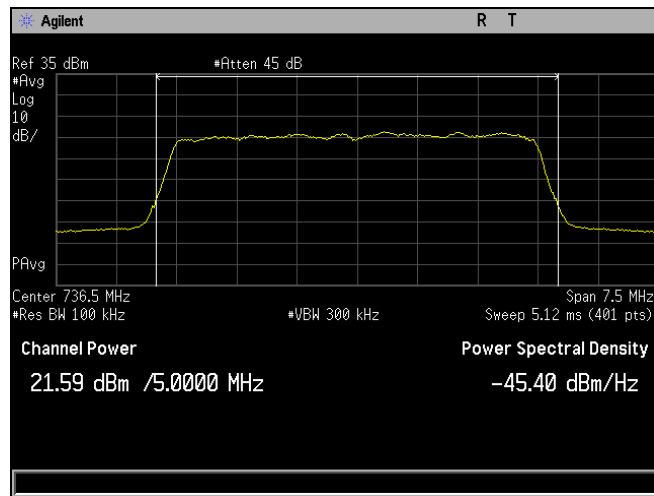
Plot 448. RF Output Power, QAM-64, Low Channel, Band 17, Port 1, Average, 5 MHz



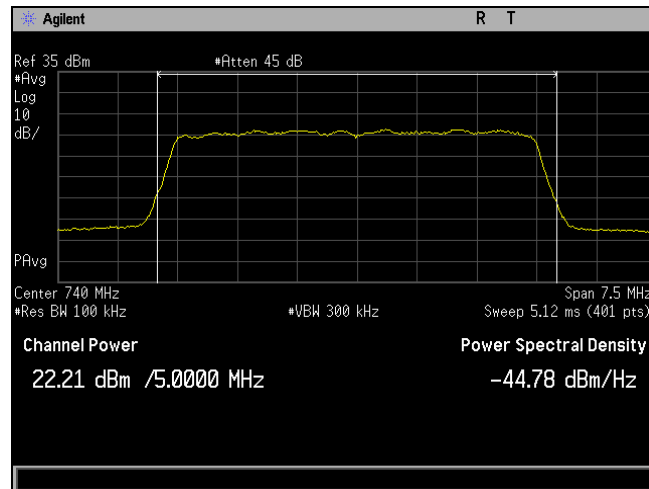
Plot 449. RF Output Power, QAM-64, Mid Channel, Band 17, Port 1, Average, 5 MHz



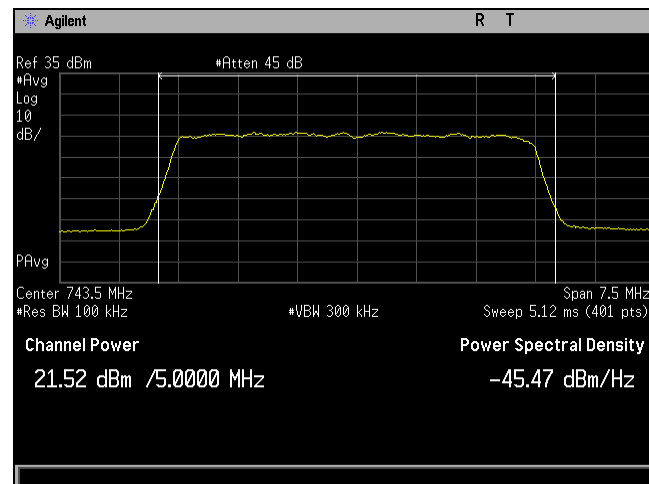
Plot 450. RF Output Power, QAM-64, High Channel, Band 17, Port 1, Average, 5 MHz



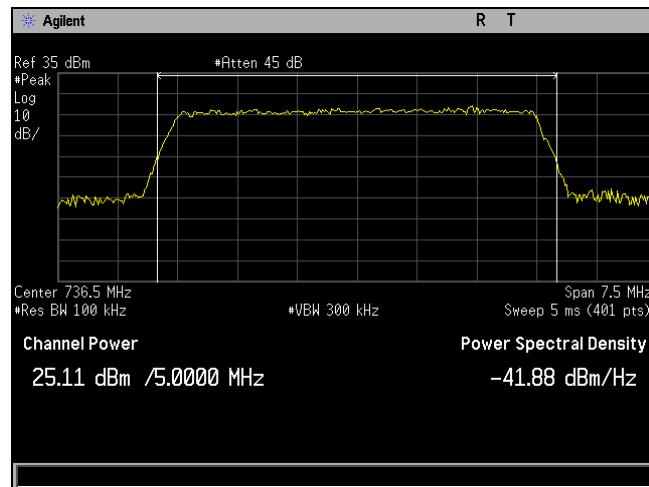
Plot 451. RF Output Power, QPSK, Low Channel, Band 17, Port 1, Average, 5 MHz



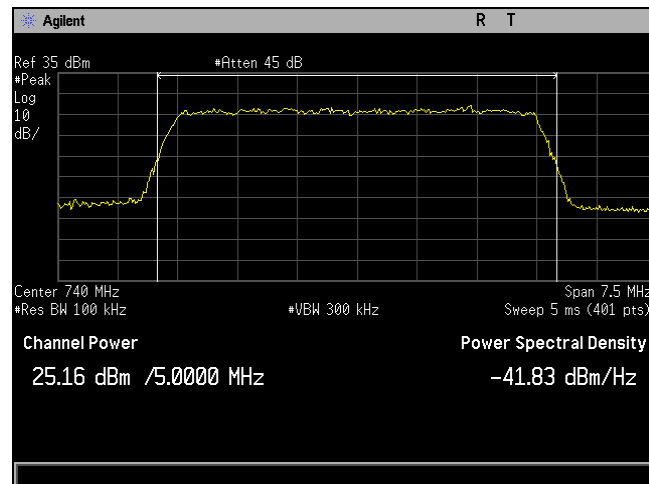
Plot 452. RF Output Power, QPSK, Mid Channel, Band 17, Port 1, Average, 5 MHz



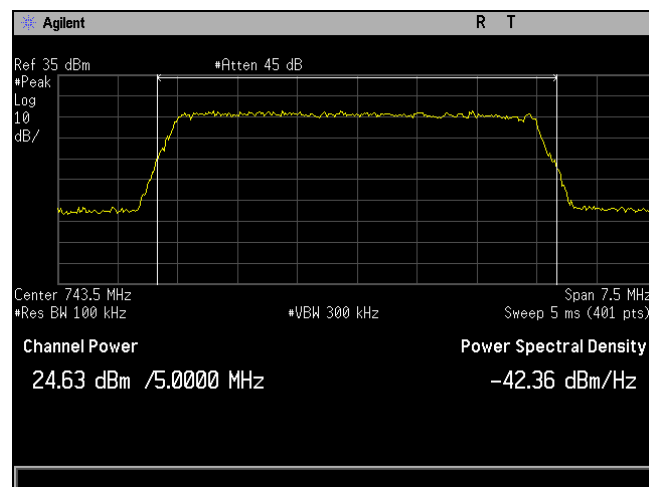
Plot 453. RF Output Power, QPSK, High Channel, Band 17, Port 1, Average, 5 MHz



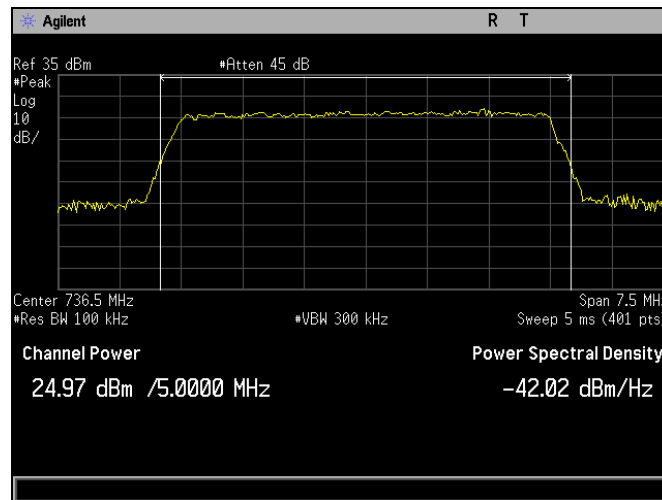
Plot 454. RF Output Power, QAM-16, Low Channel, Band 17, Port 1, Peak, 5 MHz



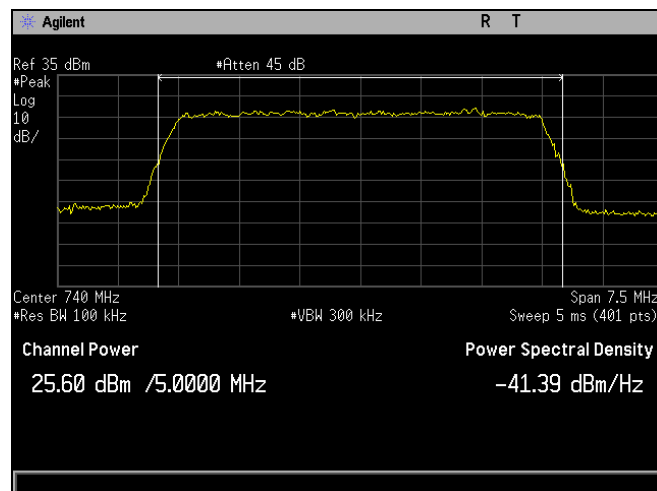
Plot 455. RF Output Power, QAM-16, Mid Channel, Band 17, Port 1, Peak, 5 MHz



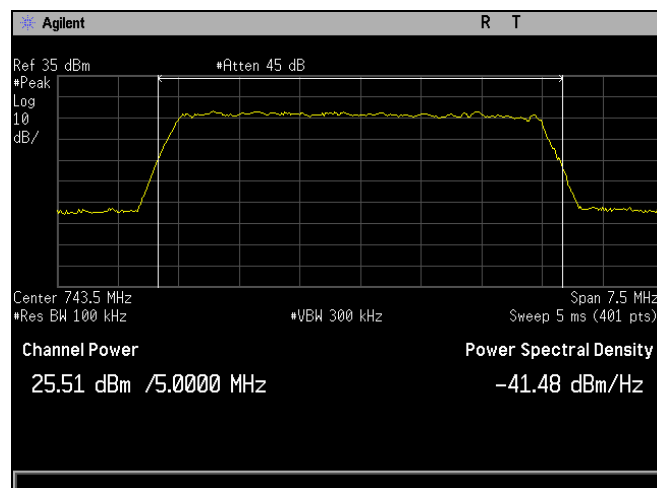
Plot 456. RF Output Power, QAM-16, High Channel, Band 17, Port 1, Peak, 5 MHz



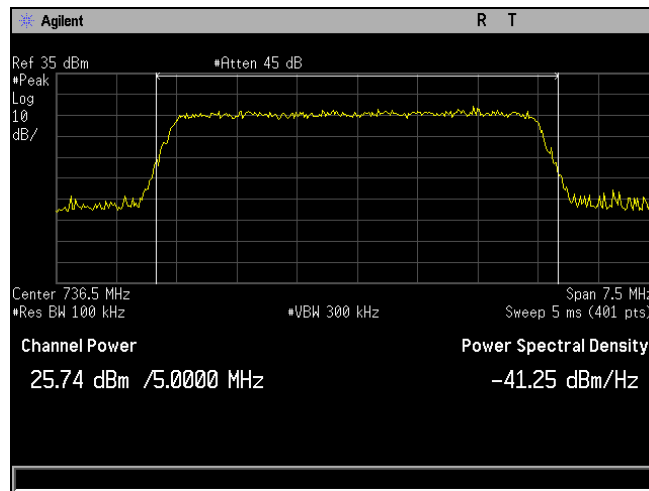
Plot 457. RF Output Power, QAM-64, Low Channel, Band 17, Port 1, Peak, 5 MHz



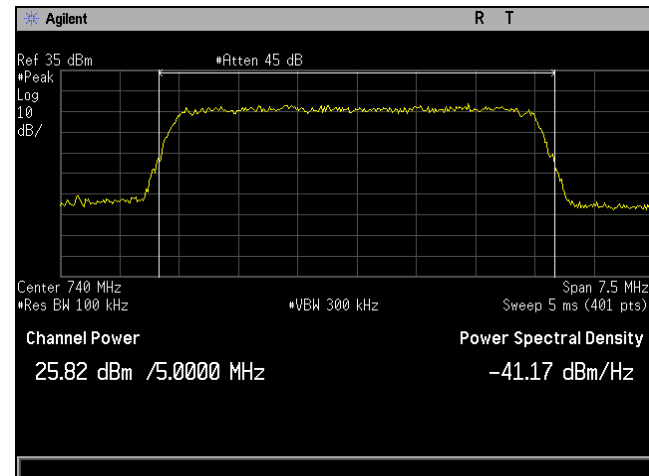
Plot 458. RF Output Power, QAM-64, Mid Channel, Band 17, Port 1, Peak, 5 MHz



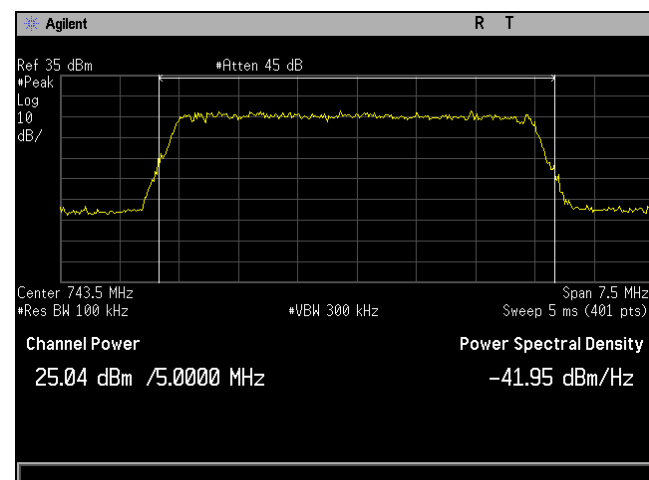
Plot 459. RF Output Power, QAM-64, High Channel, Band 17, Port 1, Peak, 5 MHz



Plot 460. RF Output Power, QPSK, Low Channel, Band 17, Port 1, Peak, 5 MHz

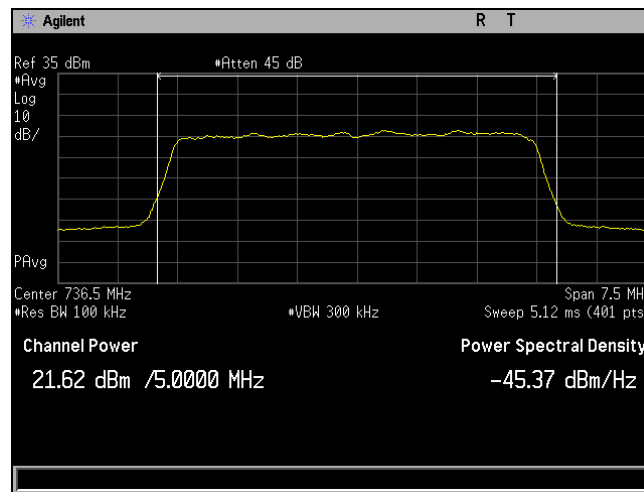


Plot 461. RF Output Power, QPSK, Mid Channel, Band 17, Port 1, Peak, 5 MHz

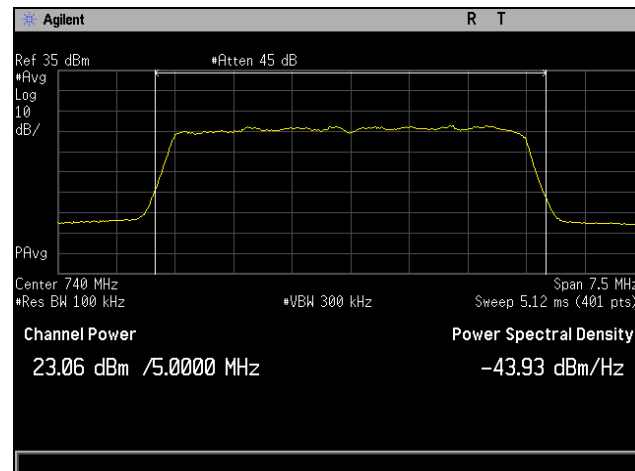


Plot 462. RF Output Power, QPSK, High Channel, Band 17, Port 1, Peak, 5 MHz

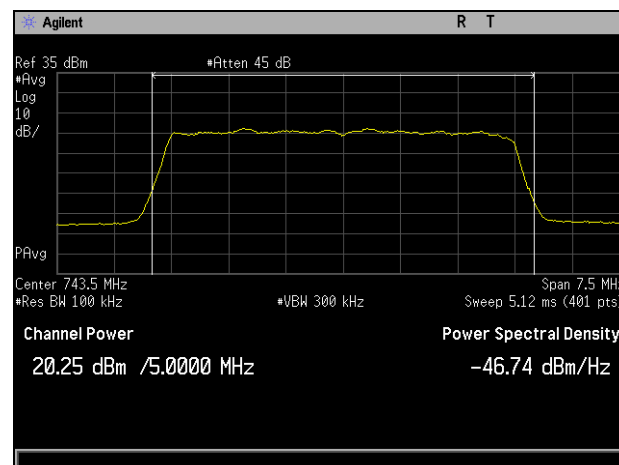
RF Output Power, Band 12, Port 2, 5 MHz



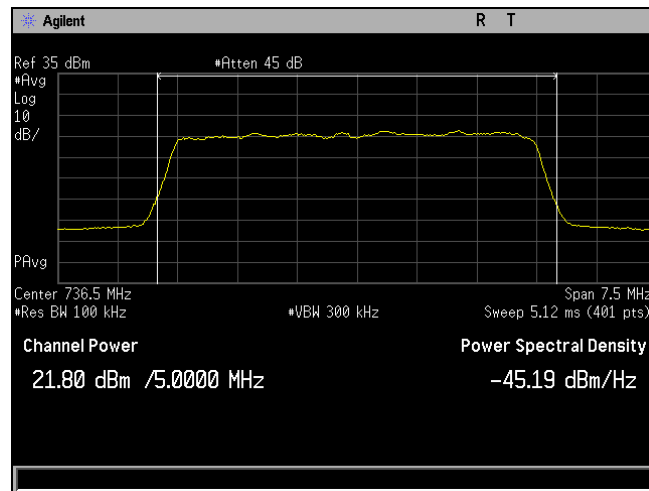
Plot 463. RF Output Power, QAM-16, Low Channel, Band 17, Port 2, Average, 5 MHz



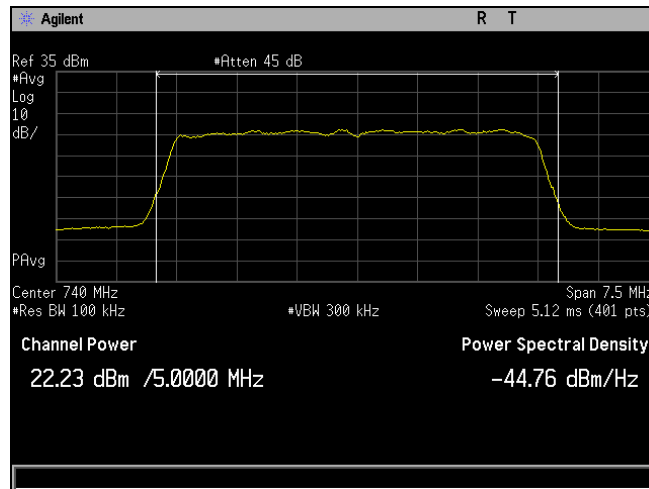
Plot 464. RF Output Power, QAM-16, Mid Channel, Band 17, Port 2, Average, 5 MHz



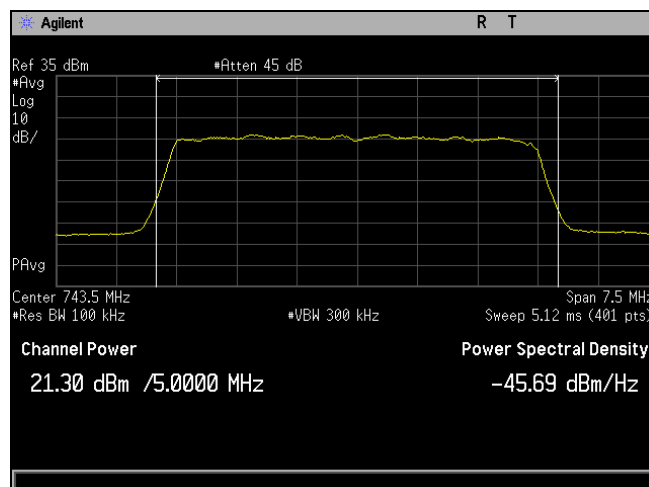
Plot 465. RF Output Power, QAM-16, High Channel, Band 17, Port 2, Average, 5 MHz



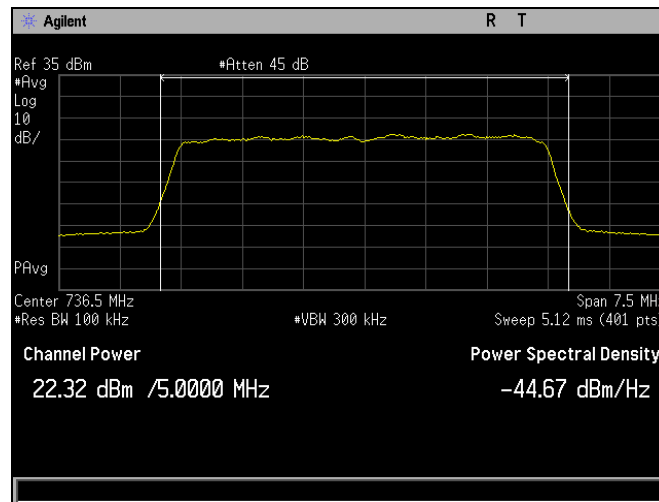
Plot 466. RF Output Power, QAM-64, Low Channel, Band 17, Port 2, Average, 5 MHz



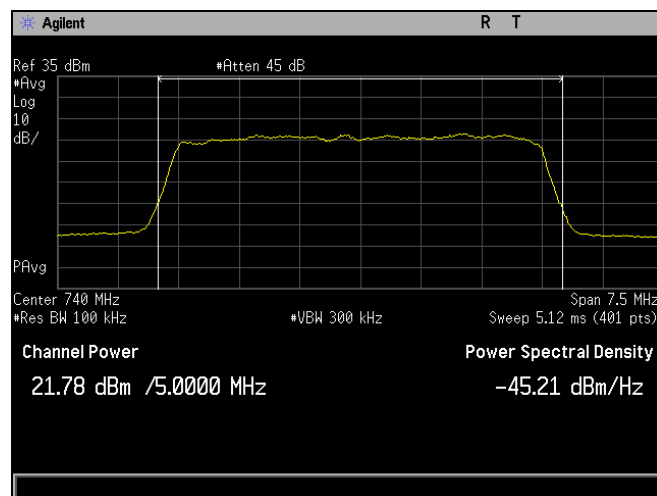
Plot 467. RF Output Power, QAM-64, Mid Channel, Band 17, Port 2, Average, 5 MHz



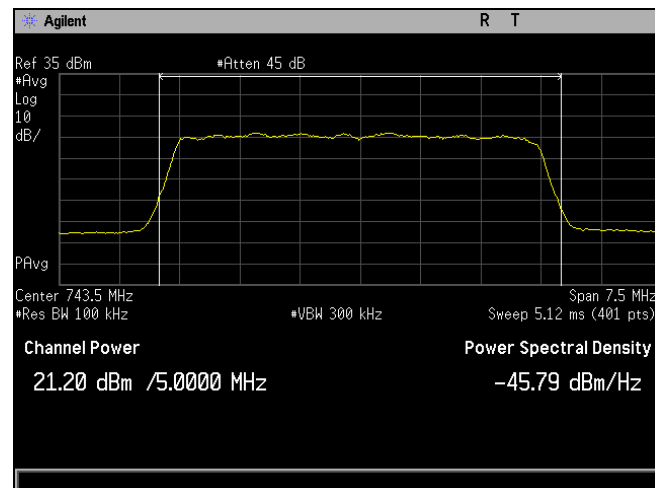
Plot 468. RF Output Power, QAM-64, High Channel, Band 17, Port 2, Average, 5 MHz



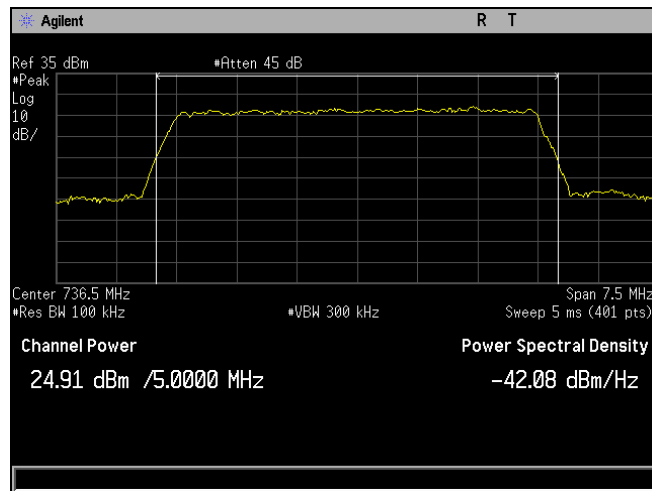
Plot 469. RF Output Power, QPSK, Low Channel, Band 17, Port 2, Average, 5 MHz



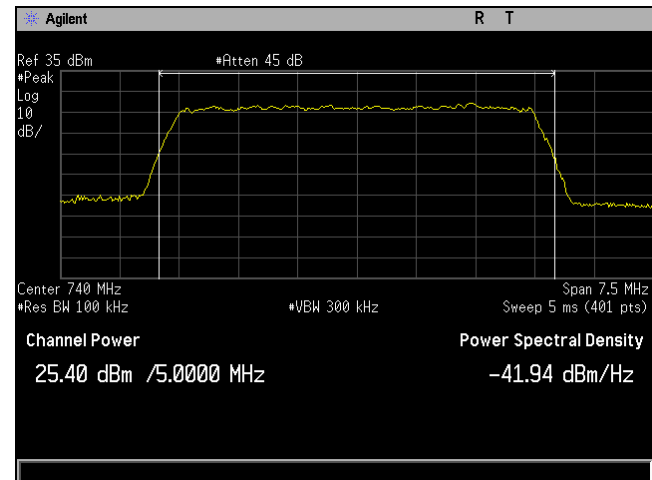
Plot 470. RF Output Power, QPSK, Mid Channel, Band 17, Port 2, Average, 5 MHz



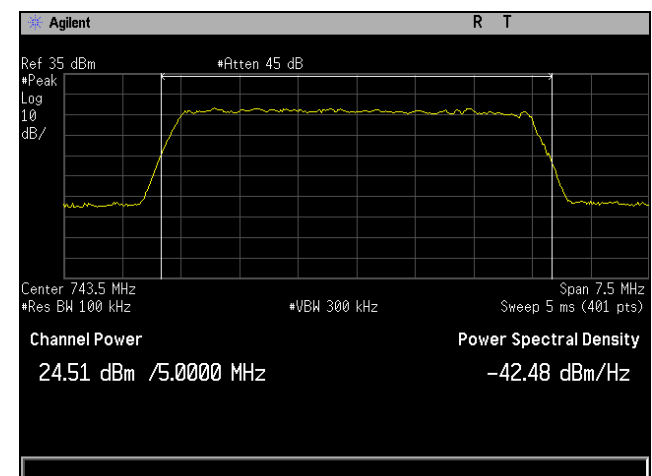
Plot 471. RF Output Power, QPSK, High Channel, Band 17, Port 2, Average, 5 MHz



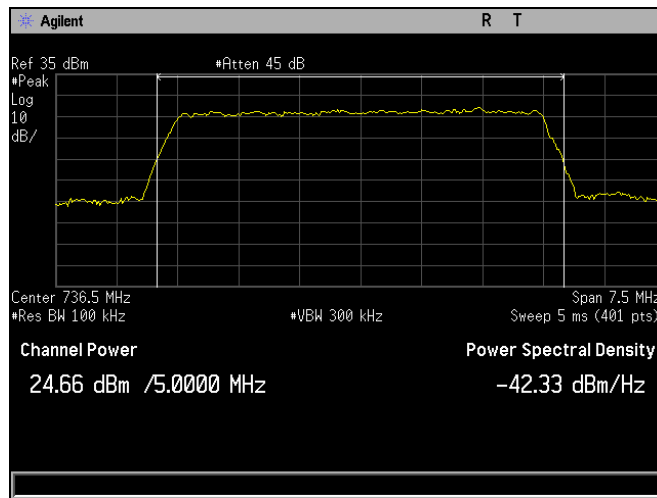
Plot 472. RF Output Power, QAM-16, Low Channel, Band 17, Port 2, Peak, 5 MHz



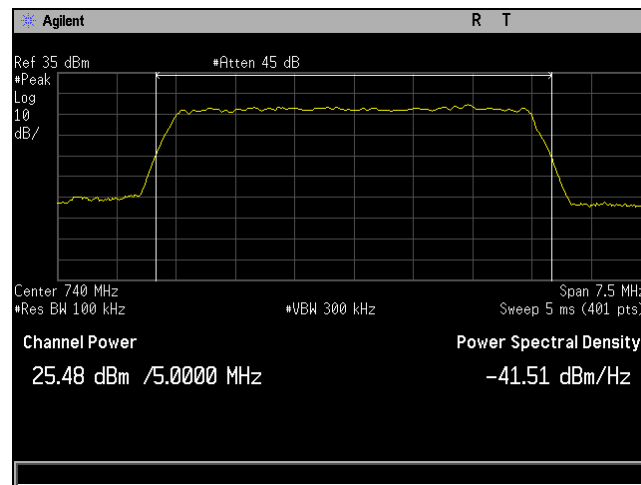
Plot 473. RF Output Power, QAM-16, Mid Channel, Band 17, Port 2, Peak, 5 MHz



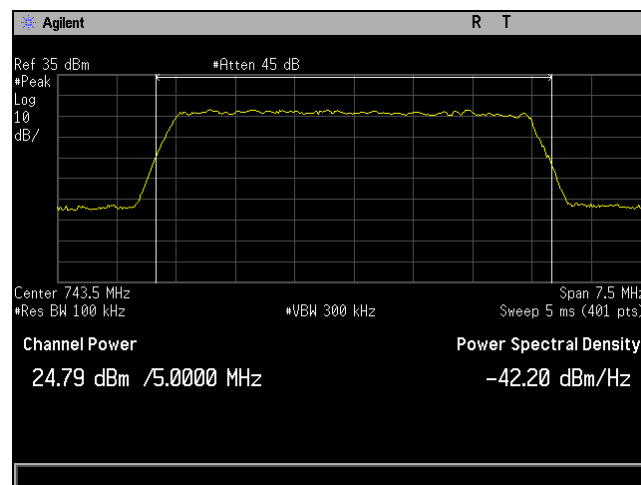
Plot 474. RF Output Power, QAM-16, High Channel, Band 17, Port 2, Peak, 5 MHz



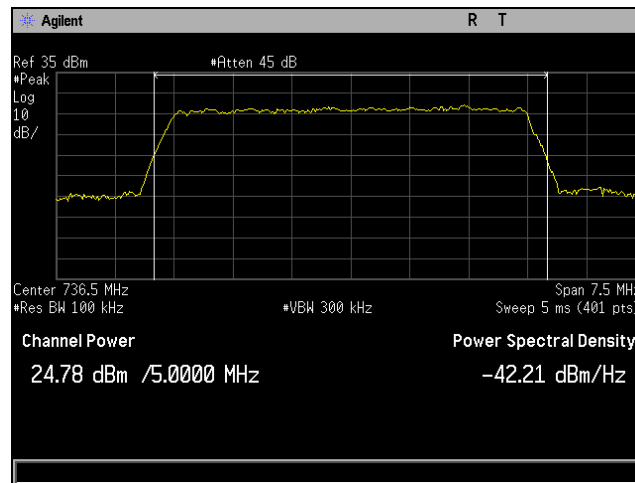
Plot 475. RF Output Power, QAM-64, Low Channel, Band 17, Port 2, Peak, 5 MHz



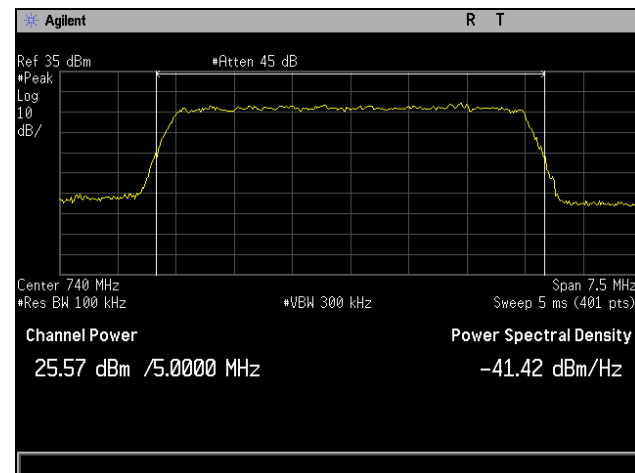
Plot 476. RF Output Power, QAM-64, Mid Channel, Band 17, Port 2, Peak, 5 MHz



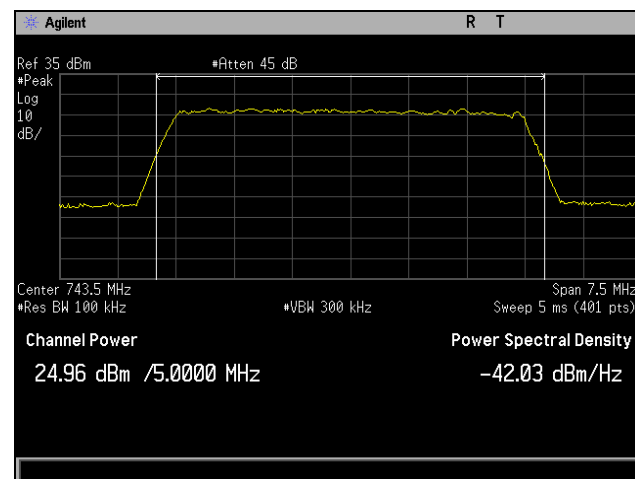
Plot 477. RF Output Power, QAM-64, High Channel, Band 17, Port 2, Peak, 5 MHz



Plot 478. RF Output Power, QPSK, Low Channel, Band 17, Port 2, Peak, 5 MHz



Plot 479. RF Output Power, QPSK, Mid Channel, Band 17, Port 2, Peak, 5 MHz



Plot 480. RF Output Power, QPSK, High Channel, Band 17, Port 2, Peak, 5 MHz



§ 2.1049 Occupied Bandwidth

Test Requirement(s):	§ 2.1049 Measurements required: Occupied bandwidth: The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable.
Test Procedures:	As required by 47 CFR 2.1049, <i>occupied bandwidth measurements</i> were made with a Spectrum Analyzer connected to the RF ports.
Test Results:	Equipment complies with Section 2.1049. The following pages show measurements of 99% and -26 dB Occupied Bandwidth plots.
Test Engineer(s):	Deepak Giri
Test Date(s):	10/30/16, 12/13/16, 12/14/16, 12/15/16, and 12/16/16



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	4	2112.5	5	QPSK	4.951	4.49
1	4	2112.5	5	16QAM	4.959	4.47
1	4	2112.5	5	64QAM	4.956	4.4965
1	4	2132.5	5	QPSK	4.974	4.5016
1	4	2132.5	5	16QAM	4.949	4.4992
1	4	2132.5	5	64QAM	4.967	4.5017
1	4	2152.5	5	QPSK	4.97	4.4907
1	4	2152.5	5	16QAM	4.996	4.4968
1	4	2152.5	5	64QAM	4.994	4.4938
1	4	2115	10	QPSK	9.748	8.9561
1	4	2115	10	16QAM	9.768	8.9498
1	4	2115	10	64QAM	9.768	8.9497
1	4	2132.5	10	QPSK	9.808	8.954
1	4	2132.5	10	16QAM	9.808	8.9528
1	4	2132.5	10	64QAM	9.808	8.9603
1	4	2150	10	QPSK	9.774	8.9545
1	4	2150	10	16QAM	8.9475	9.756
1	4	2150	10	64QAM	9.756	8.9507
2	4	2112.5	5	QPSK	4.96	4.5008
2	4	2112.5	5	16QAM	4.979	4.4964
2	4	2112.5	5	64QAM	4.974	4.4945
2	4	2132.5	5	QPSK	4.986	4.499
2	4	2132.5	5	16QAM	4.987	4.499
2	4	2132.5	5	64QAM	4.987	4.4983
2	4	2152.5	5	QPSK	5	4.4957
2	4	2152.5	5	16QAM	4.997	4.4979
2	4	2152.5	5	64QAM	4.997	4.5
2	4	2115	10	QPSK	9.768	8.959
2	4	2115	10	16QAM	9.768	8.9579
2	4	2115	10	64QAM	9.801	8.9614
2	4	2132.5	10	QPSK	9.813	8.96
2	4	2132.5	10	16QAM	9.817	8.959
2	4	2132.5	10	64QAM	9.817	8.9607
2	4	2150	10	QPSK	9.77	8.9585
2	4	2150	10	16QAM	9.777	8.959
2	4	2150	10	64QAM	9.764	8.9628

Table 15. Occupied Bandwidth, Test Results, Band 4, 5 and 10 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	4	2117.5	15	QPSK	14.7	13.47
1	4	2117.5	15	16QAM	14.7	13.47
1	4	2117.5	15	64QAM	14.7	13.47
1	4	2132.5	15	QPSK	14.64	13.46
1	4	2132.5	15	16QAM	14.67	13.47
1	4	2132.5	15	64QAM	14.67	13.47
1	4	2147.5	15	QPSK	14.61	13.44
1	4	2147.5	15	16QAM	14.67	13.45
1	4	2147.5	15	64QAM	14.67	13.44
1	4	2120	20	QPSK	19.43	17.86
1	4	2120	20	16QAM	19.43	17.9
1	4	2120	20	64QAM	19.43	17.9
1	4	2132.5	20	QPSK	19.46	17.88
1	4	2132.5	20	16QAM	19.47	17.88
1	4	2132.5	20	64QAM	19.49	17.88
1	4	2145.5	20	QPSK	19.65	17.88
1	4	2145.5	20	16QAM	19.68	17.89
1	4	2145.5	20	64QAM	19.62	17.89
2	4	2117.5	15	QPSK	14.7	13.47
2	4	2117.5	15	16QAM	14.7	13.47
2	4	2117.5	15	64QAM	14.4	13.47
2	4	2132.5	15	QPSK	14.67	13.47
2	4	2132.5	15	16QAM	14.67	13.47
2	4	2132.5	15	64QAM	14.66	13.47
2	4	2147.5	15	QPSK	14.61	13.44
2	4	2147.5	15	16QAM	14.61	13.45
2	4	2147.5	15	64QAM	14.65	13.45
2	4	2120	20	QPSK	19.48	17.9
2	4	2120	20	16QAM	19.48	17.9
2	4	2120	20	64QAM	19.12	17.86
2	4	2132.5	20	QPSK	19.43	17.88
2	4	2132.5	20	16QAM	19.49	17.88
2	4	2132.5	20	64QAM	19.49	17.88
2	4	2145.5	20	QPSK	19.64	17.9
2	4	2145.5	20	16QAM	19.64	17.89
2	4	2145.5	20	64QAM	19.62	17.89

Table 16. Occupied Bandwidth, Test Results, Band 4, 15 and 20 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	10	2112.5	5	QPSK	5.012	4.5104
1	10	2112.5	5	16QAM	4.921	4.49
1	10	2112.5	5	64QAM	4.951	4.4954
1	10	2140	5	QPSK	4.9	4.48
1	10	2140	5	16QAM	4.928	4.497
1	10	2140	5	64QAM	4.93	4.49
1	10	2167.5	5	QPSK	4.976	4.49
1	10	2167.5	5	16QAM	4.976	4.4964
1	10	2167.5	5	64QAM	4.992	4.4966
1	10	2115	10	QPSK	9.801	8.9617
1	10	2115	10	16QAM	9.801	8.9609
1	10	2115	10	64QAM	9.732	8.939
1	10	2140	10	QPSK	9.725	8.9514
1	10	2140	10	16QAM	9.772	8.965
1	10	2140	10	64QAM	9.773	8.965
1	10	2165	10	QPSK	9.676	8.9541
1	10	2165	10	16QAM	9.705	8.953
1	10	2165	10	64QAM	9.761	8.9474
2	10	2112.5	5	QPSK	4.951	4.4969
2	10	2112.5	5	16QAM	4.951	4.4983
2	10	2112.5	5	64QAM	4.916	4.4943
2	10	2140	5	QPSK	4.962	4.4936
2	10	2140	5	16QAM	4.962	4.4916
2	10	2140	5	64QAM	4.962	4.496
2	10	2167.5	5	QPSK	4.994	4.496
2	10	2167.5	5	16QAM	4.994	4.495
2	10	2167.5	5	64QAM	4.916	4.494
2	10	2115	10	QPSK	9.743	8.9578
2	10	2115	10	16QAM	9.745	8.955
2	10	2115	10	64QAM	9.745	8.962
2	10	2140	10	QPSK	9.786	8.9687
2	10	2140	10	16QAM	9.786	8.9662
2	10	2140	10	64QAM	9.787	8.966
2	10	2165	10	QPSK	9.765	8.9533
2	10	2165	10	16QAM	9.806	8.9533
2	10	2165	10	64QAM	9.814	8.9534

Table 17. Occupied Bandwidth, Test Results, Band 10, 5 and 10 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	10	2117.5	15	QPSK	14.7	13.47
1	10	2117.5	15	16QAM	14.96	13.47
1	10	2117.5	15	64QAM	14.69	13.47
1	10	2140	15	QPSK	14.65	13.47
1	10	2140	15	16QAM	14.65	13.48
1	10	2140	15	64QAM	14.65	13.48
1	10	2162.5	15	QPSK	14.53	13.48
1	10	2162.5	15	16QAM	14.67	13.47
1	10	2162.5	15	64QAM	14.67	13.48
1	10	2120	20	QPSK	19.44	17.89
1	10	2120	20	16QAM	19.44	17.9
1	10	2120	20	64QAM	19.44	17.91
1	10	2140	20	QPSK	19.47	17.89
1	10	2140	20	16QAM	19.47	17.91
1	10	2140	20	64QAM	19.47	17.92
1	10	2160	20	QPSK	19.31	17.82
1	10	2160	20	16QAM	19.36	17.9
1	10	2160	20	64QAM	19.42	17.89
2	10	2117.5	15	QPSK	14.696	13.46
2	10	2117.5	15	16QAM	14.7	13.47
2	10	2117.5	15	64QAM	14.7	13.47
2	10	2140	15	QPSK	14.65	13.48
2	10	2140	15	16QAM	14.68	13.48
2	10	2140	15	64QAM	14.68	13.47
2	10	2162.5	15	QPSK	14.69	13.47
2	10	2162.5	15	16QAM	14.69	13.46
2	10	2162.5	15	64QAM	14.69	13.46
2	10	2120	20	QPSK	19.3	17.9
2	10	2120	20	16QAM	19.4	17.9
2	10	2120	20	64QAM	19.4	17.89
2	10	2140	20	QPSK	19.47	17.89
2	10	2140	20	16QAM	19.47	17.89
2	10	2140	20	64QAM	19.47	17.89
2	10	2160	20	QPSK	19.58	17.91
2	10	2160	20	16QAM	19.63	17.92
2	10	2160	20	64QAM	19.63	17.92

Table 18. Occupied Bandwidth, Test Results, Band 10, 15 and 20 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	12	731.5	5	QPSK	5.018	4.5025
1	12	731.5	5	16QAM	5.033	4.505
1	12	731.5	5	64QAM	5.033	4.508
1	12	737.5	5	QPSK	4.927	4.484
1	12	737.5	5	16QAM	4.926	4.4855
1	12	737.5	5	64QAM	4.974	4.486
1	12	743.5	5	QPSK	4.93	4.481
1	12	743.5	5	16QAM	4.999	4.5075
1	12	743.5	5	64QAM	4.999	4.5047
1	12	734	10	QPSK	9.85	8.973
1	12	734	10	16QAM	9.85	8.973
1	12	734	10	64QAM	9.85	8.972
1	12	737.5	10	QPSK	9.764	8.957
1	12	737.5	10	16QAM	9.762	8.962
1	12	737.5	10	64QAM	9.762	8.699
1	12	741	10	QPSK	9.802	8.9337
1	12	741	10	16QAM	9.797	8.9322
1	12	741	10	64QAM	9.798	8.9319
2	12	731.5	5	QPSK	5.024	4.507
2	12	731.5	5	16QAM	5.024	4.5069
2	12	731.5	5	64QAM	5.024	4.5105
2	12	737.5	5	QPSK	4.981	4.489
2	12	737.5	5	16QAM	4.998	4.49
2	12	737.5	5	64QAM	5.006	4.501
2	12	743.5	5	QPSK	5.01	4.5068
2	12	743.5	5	16QAM	5.014	4.5063
2	12	743.5	5	64QAM	5.014	4.5085
2	12	734	10	QPSK	9.841	8.9713
2	12	734	10	16QAM	9.841	8.9709
2	12	734	10	64QAM	9.841	8.9723
2	12	737.5	10	QPSK	9.765	8.967
2	12	737.5	10	16QAM	9.765	8.9668
2	12	737.5	10	64QAM	9.765	8.9638
2	12	741	10	QPSK	9.798	8.9309
2	12	741	10	16QAM	9.8	8.9298
2	12	741	10	64QAM	9.8	8.9296

Table 19. Occupied Bandwidth, Test Results, Band 12, 5 and 10 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	12	736.5	15	QPSK	14.595	13.455
1	12	736.5	15	16QAM	14.642	13.451
1	12	736.5	15	64QAM	14.67	13.452
1	12	737.5	15	QPSK	14.588	13.455
1	12	737.5	15	16QAM	14.594	13.453
1	12	737.5	15	64QAM	14.595	13.451
1	12	738.5	15	QPSK	14.544	13.444
1	12	738.5	15	16QAM	14.559	13.4614
1	12	738.5	15	64QAM	14.591	13.461
2	12	736.5	15	QPSK	14.67	13.449
2	12	736.5	15	16QAM	14.673	13.453
2	12	736.5	15	64QAM	14.673	13.456
2	12	737.5	15	QPSK	14.593	13.448
2	12	737.5	15	16QAM	14.615	13.4589
2	12	737.5	15	64QAM	14.652	13.456
2	12	738.5	15	QPSK	14.591	13.459
2	12	738.5	15	16QAM	14.591	13.457
2	12	738.5	15	64QAM	14.595	13.456

Table 20. Occupied Bandwidth, Test Results, Band 12, 15 MHz



Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	13	748.5	5	QPSK	5.026	4.4918
1	13	748.5	5	16QAM	5.049	4.4015
1	13	748.5	5	64QAM	5.028	4.5036
1	13	751	5	QPSK	4.911	4.4835
1	13	751	5	16QAM	5.027	4.5027
1	13	751	5	64QAM	5.027	4.5098
1	13	753.5	5	QPSK	4.933	4.48
1	13	753.5	5	16QAM	4.98	4.4858
1	13	753.5	5	64QAM	4.982	4.4858
1	13	751	10	QPSK	9.737	8.9613
1	13	751	10	16QAM	9.748	8.954
1	13	751	10	64QAM	9.748	8.9528
2	13	748.5	5	QPSK	5.028	4.5052
2	13	748.5	5	16QAM	5.028	4.5064
2	13	748.5	5	64QAM	5.028	4.5071
2	13	751	5	QPSK	5.027	4.5098
2	13	751	5	16QAM	5.027	4.5097
2	13	751	5	64QAM	5.027	4.5102
2	13	753.5	5	QPSK	4.972	4.4875
2	13	753.5	5	16QAM	5.019	4.4974
2	13	753.5	5	64QAM	5.012	4.4936
2	13	751	10	QPSK	9.751	8.9512
2	13	751	10	16QAM	9.773	8.95
2	13	751	10	64QAM	9.773	8.9553

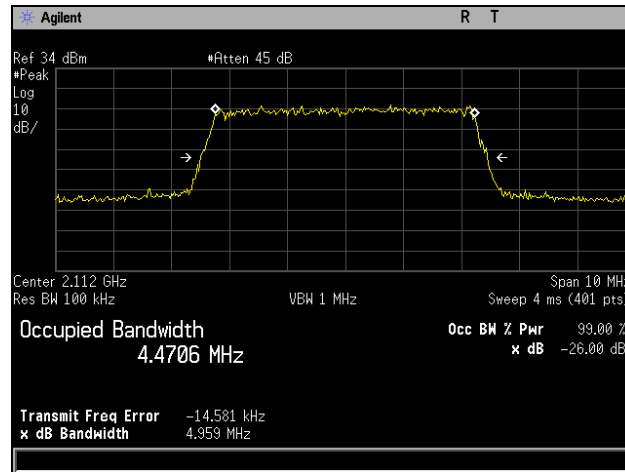
Table 21. Occupied Bandwidth, Test Results, Band 13



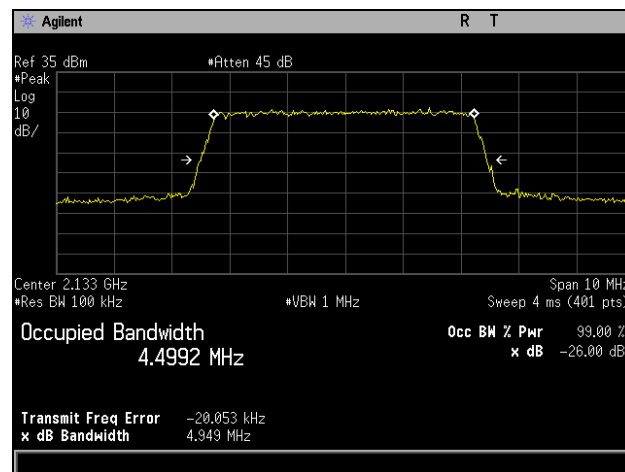
Port	Band	Center Frequency MHz	Bandwidth	Modulation	26 dB OBW	99%
1	17	736.5	5	QPSK	4.973	4.5055
1	17	736.5	5	16QAM	4.95	4.5069
1	17	736.5	5	64QAM	4.957	4.5122
1	17	740	5	QPSK	4.941	4.5104
1	17	740	5	16QAM	4.95	4.5
1	17	740	5	64QAM	5.014	4.507
1	17	743.5	5	QPSK	4.939	4.4884
1	17	743.5	5	16QAM	4.967	4.4898
1	17	743.5	5	64QAM	4.98	4.494
1	17	739	10	QPSK	9.765	8.939
1	17	739	10	16QAM	9.803	8.9368
1	17	739	10	64QAM	9.803	8.9408
1	17	740	10	QPSK	9.692	8.9
1	17	740	10	16QAM	9.75	8.91
1	17	740	10	64QAM	9.751	8.912
1	17	741	10	QPSK	9.753	8.92
1	17	741	10	16QAM	9.79	8.92
1	17	741	10	64QAM	9.787	8.924
2	17	736.5	5	QPSK	4.959	4.5098
2	17	736.5	5	16QAM	4.96	4.5056
2	17	736.5	5	64QAM	4.96	4.507
2	17	740	5	QPSK	5.014	4.5082
2	17	740	5	16QAM	5.016	4.5058
2	17	740	5	64QAM	5.016	4.5063
2	17	743.5	5	QPSK	4.983	4.4955
2	17	743.5	5	16QAM	4.992	4.494
2	17	743.5	5	64QAM	5.013	4.5077
2	17	739	10	QPSK	9.792	8.9439
2	17	739	10	16QAM	9.802	8.9425
2	17	739	10	64QAM	9.802	8.941
2	17	740	10	QPSK	9.751	8.921
2	17	740	10	16QAM	9.758	8.9206
2	17	740	10	64QAM	9.79	8.918
2	17	741	10	QPSK	9.787	8.9224
2	17	741	10	16QAM	9.801	8.9312
2	17	741	10	64QAM	9.796	8.935

Table 22. Occupied Bandwidth, Test Results, Band 17

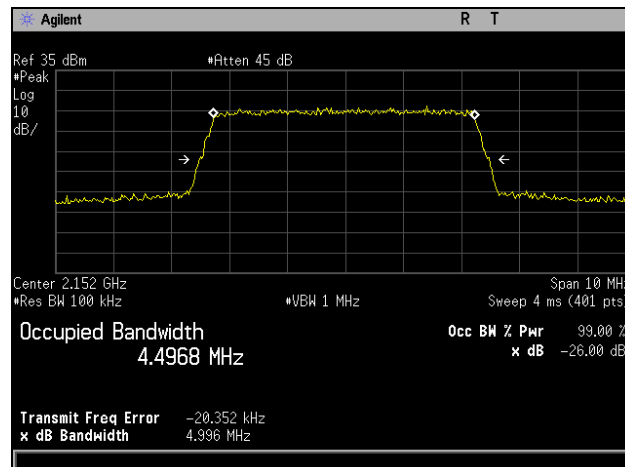
Occupied Bandwidth, Band 4, Port 1, 5 MHz



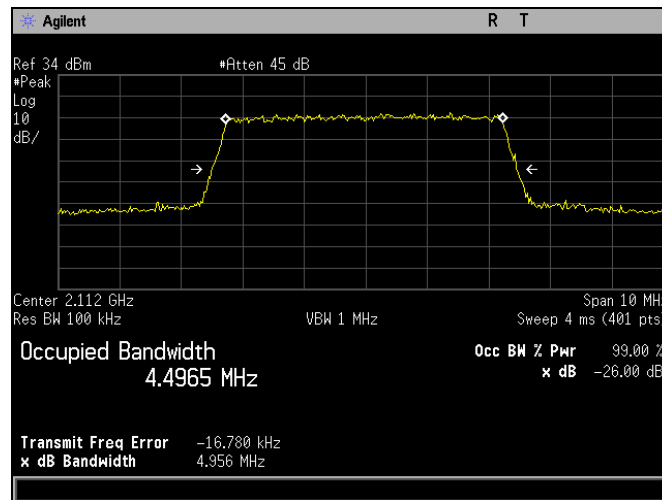
Plot 481. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 1, 5 MHz



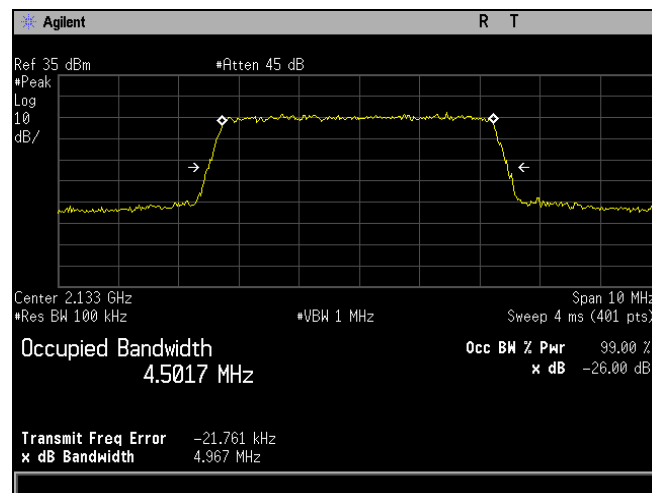
Plot 482. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 1, 5 MHz



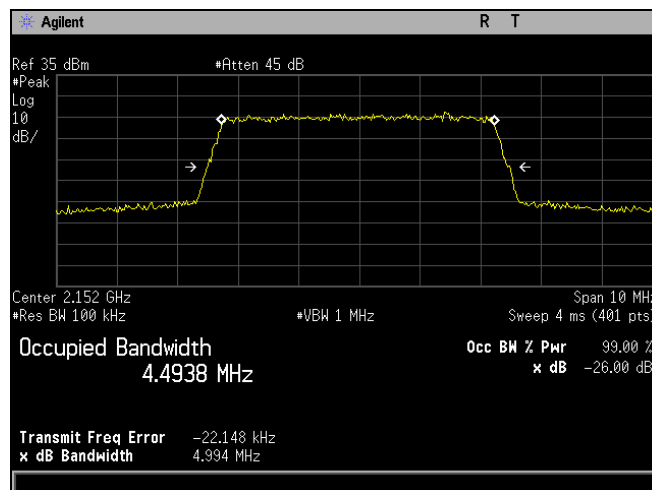
Plot 483. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 1, 5 MHz



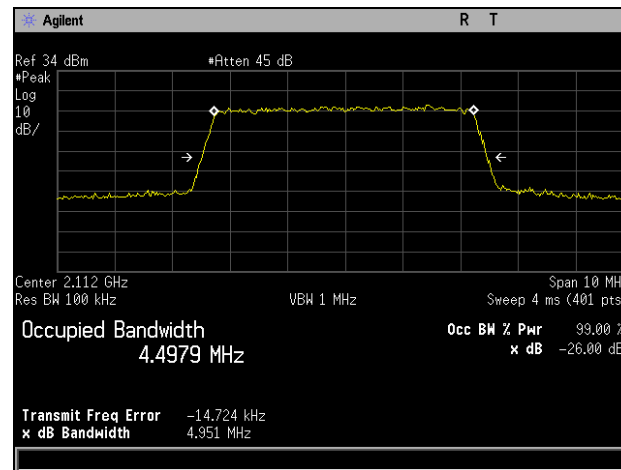
Plot 484. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 1, 5 MHz



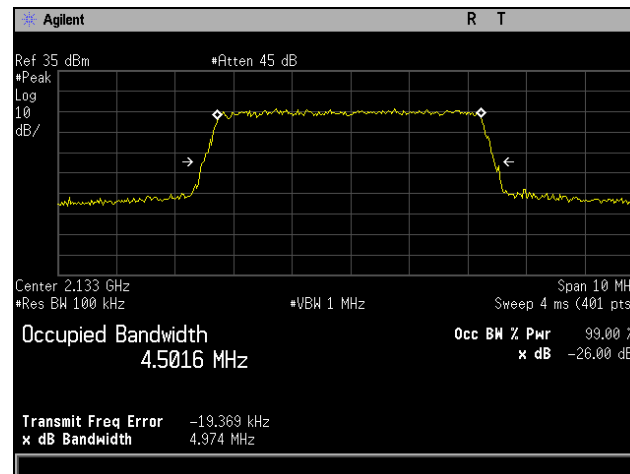
Plot 485. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 1, 5 MHz



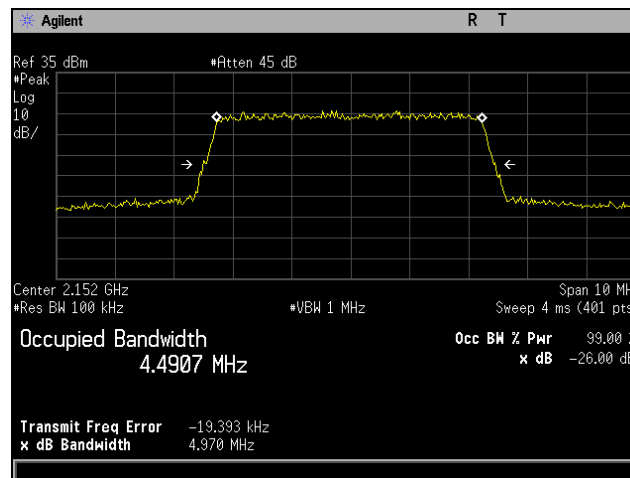
Plot 486. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 1, 5 MHz



Plot 487. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 1, 5 MHz

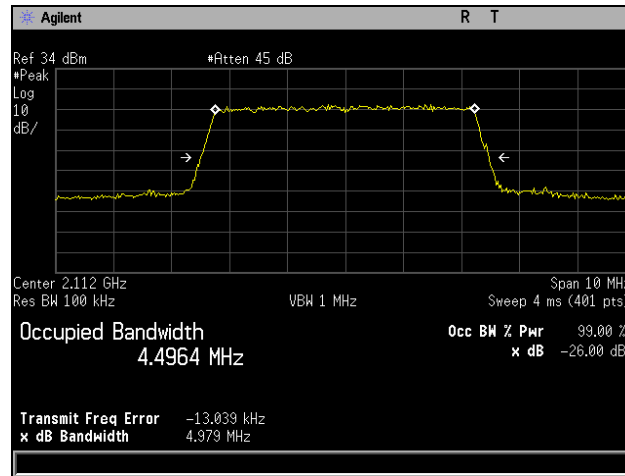


Plot 488. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 1, 5 MHz

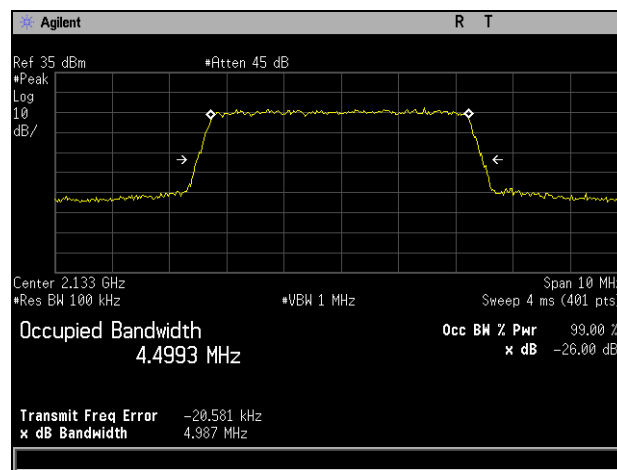


Plot 489. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 1, 5 MHz

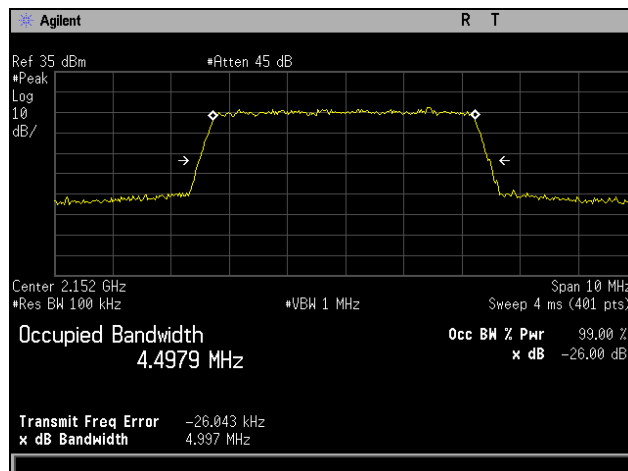
Occupied Bandwidth, Band 4, Port 2, 5 MHz



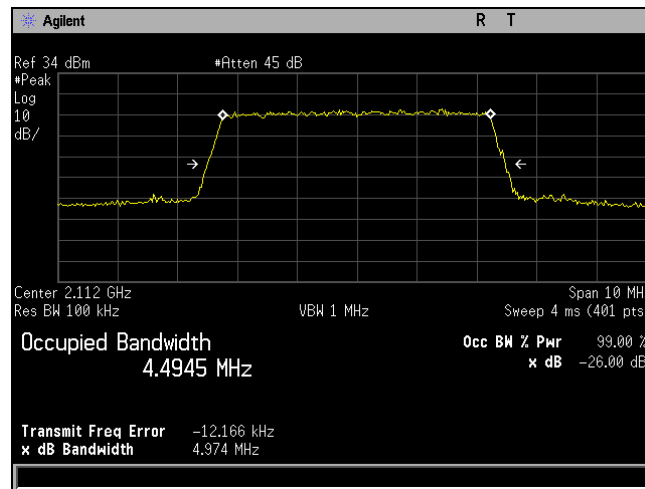
Plot 490. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 2, 5 MHz



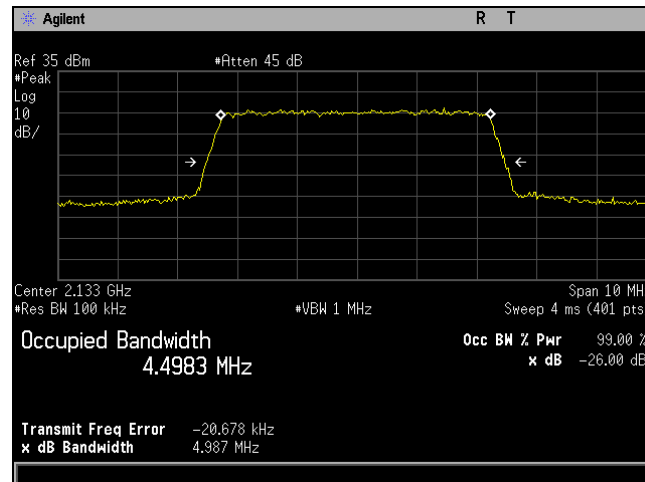
Plot 491. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 2, 5 MHz



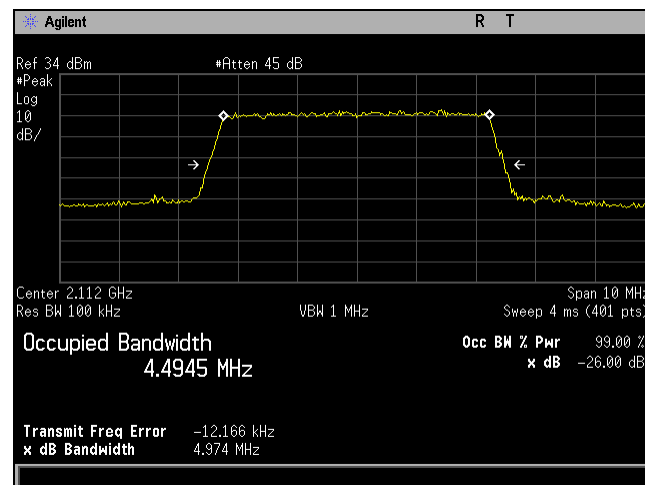
Plot 492. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 2, 5 MHz



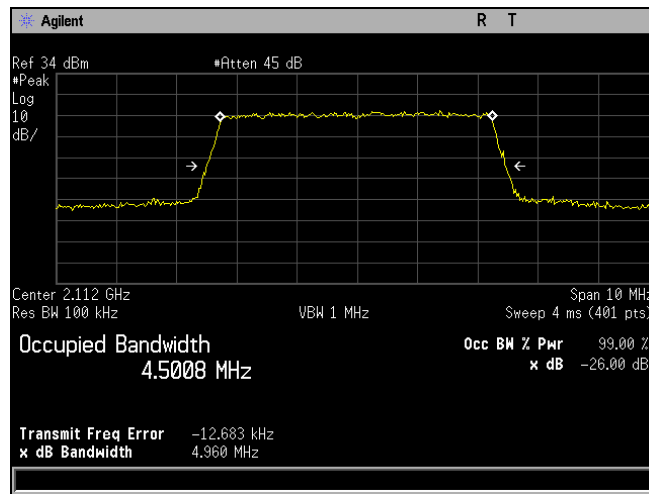
Plot 493. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 2, 5 MHz



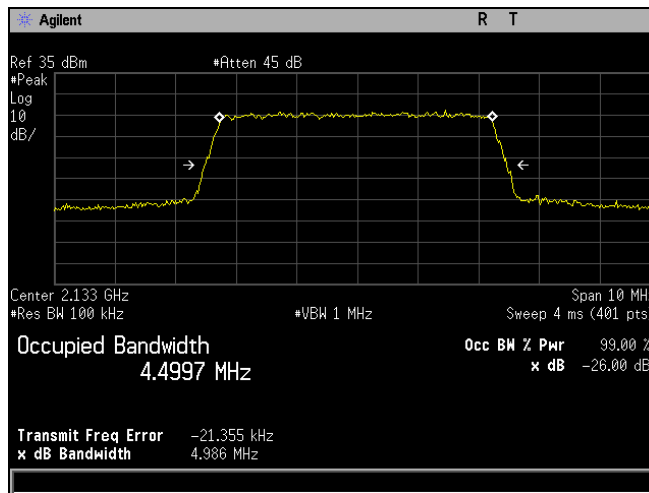
Plot 494. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 2, 5 MHz



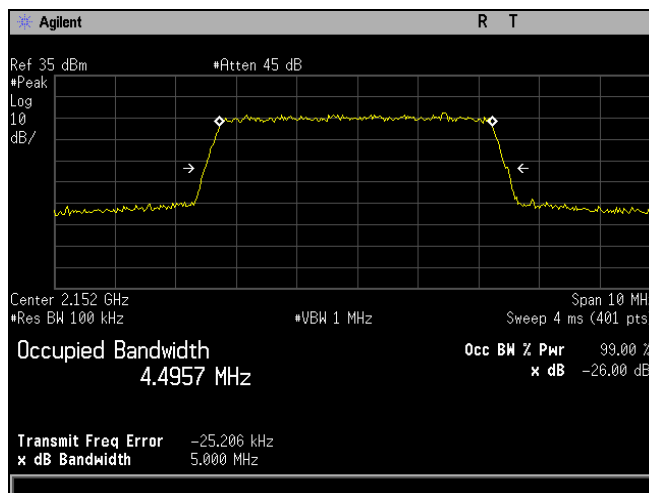
Plot 495. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 2, 5 MHz



Plot 496. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 2, 5 MHz

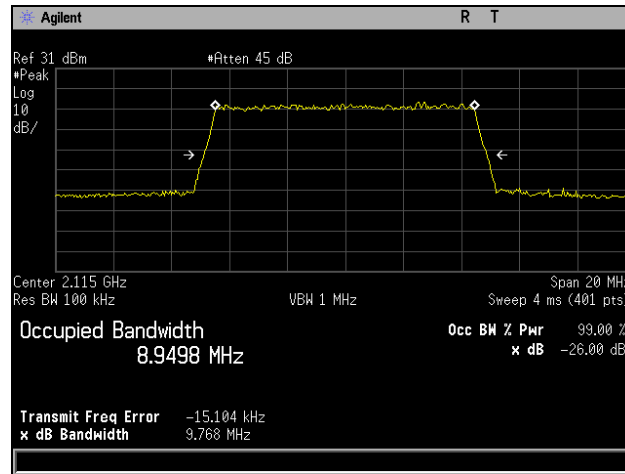


Plot 497. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 2, 5 MHz

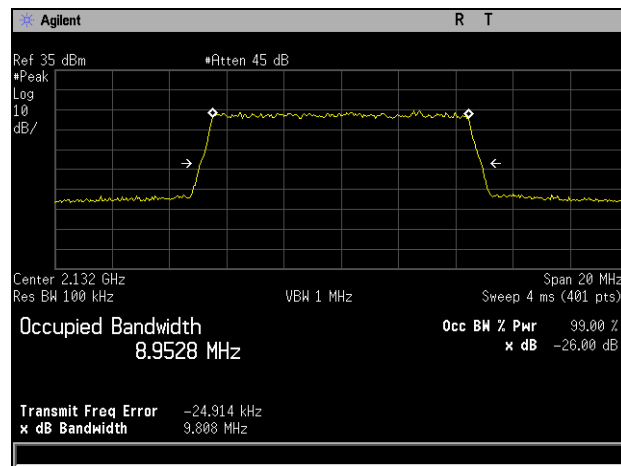


Plot 498. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 2, 5 MHz

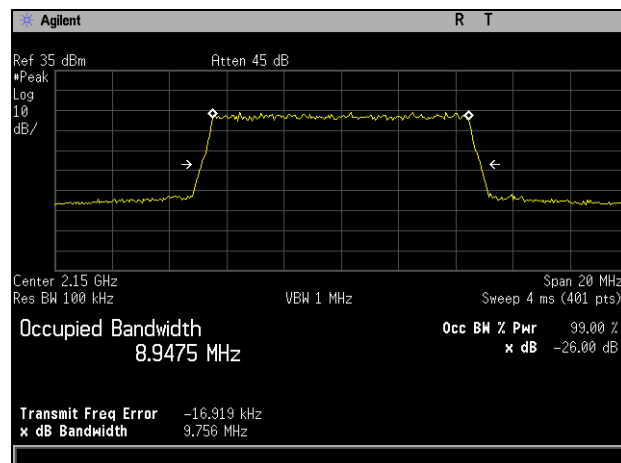
Occupied Bandwidth, Band 4, Port 1, 10 MHz



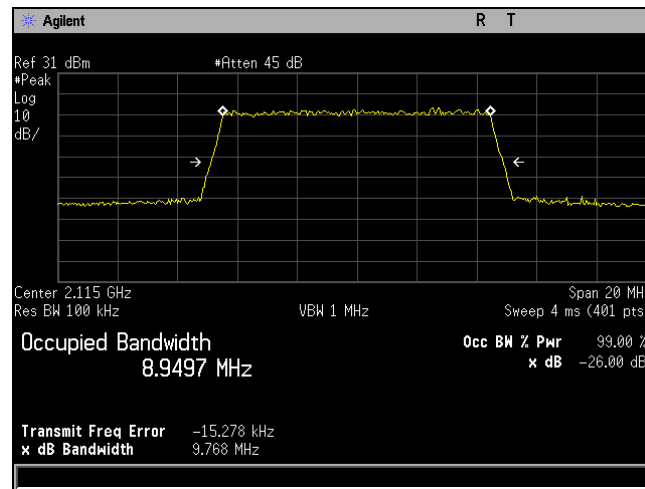
Plot 499. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 1, 10 MHz



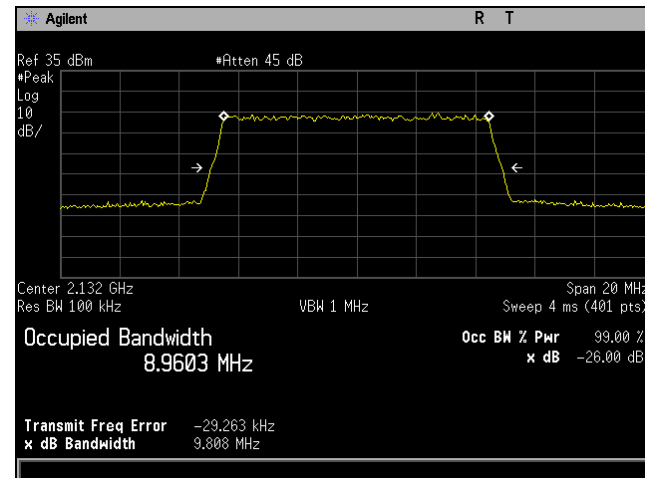
Plot 500. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 1, 10 MHz



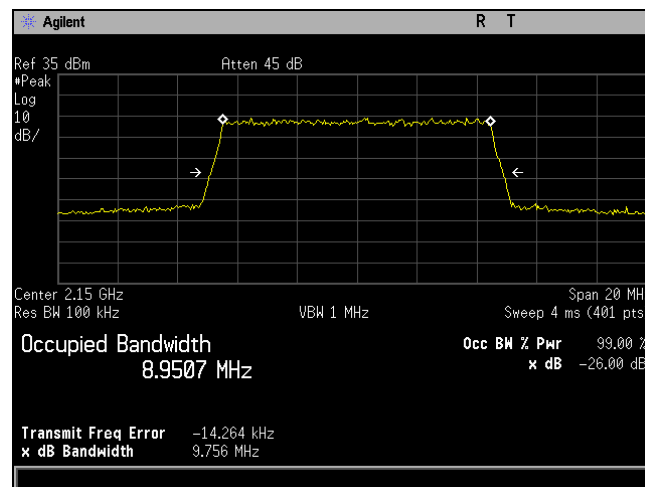
Plot 501. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 1, 10 MHz



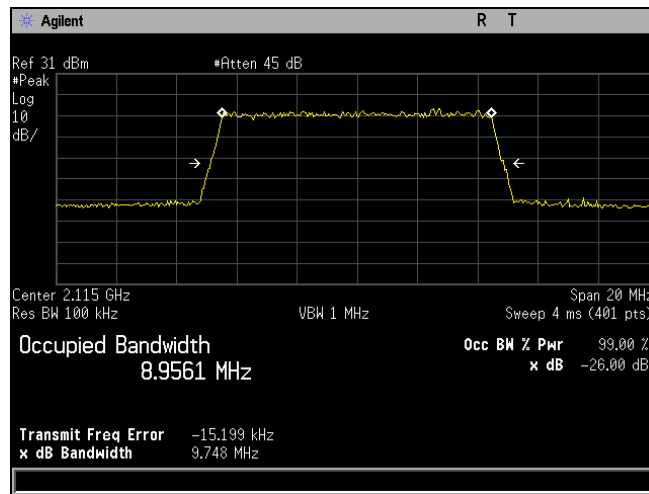
Plot 502. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 1, 10 MHz



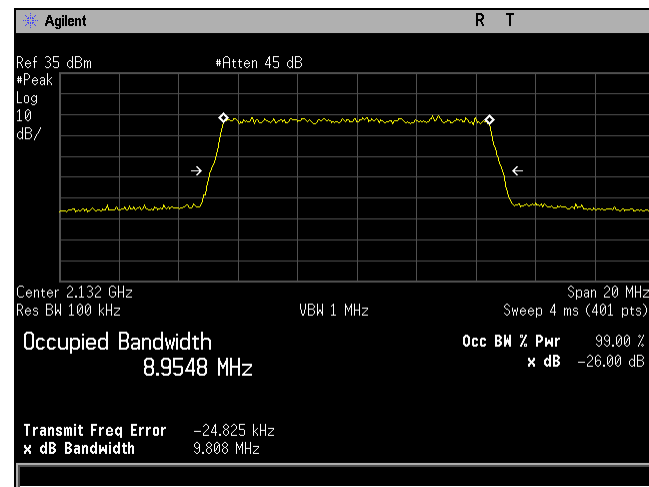
Plot 503. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 1, 10 MHz



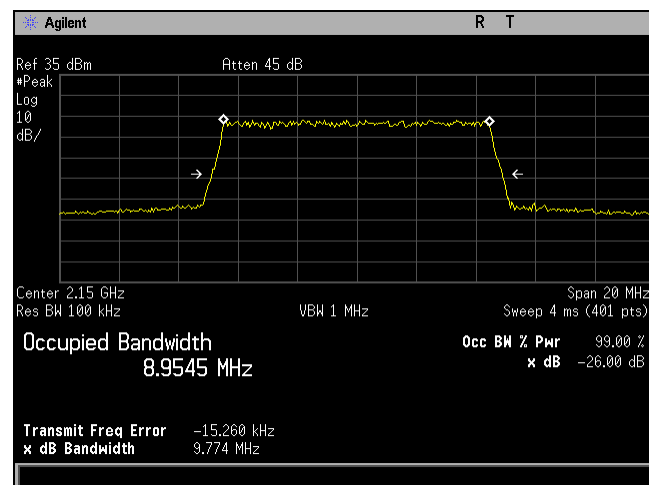
Plot 504. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 1, 10 MHz



Plot 505. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 1, 10 MHz

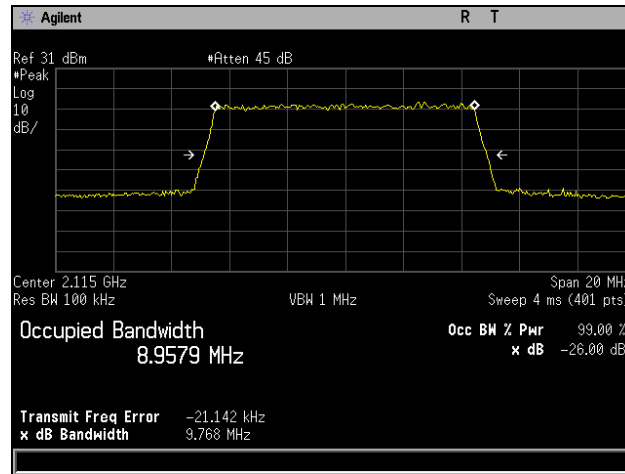


Plot 506. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 1, 10 MHz

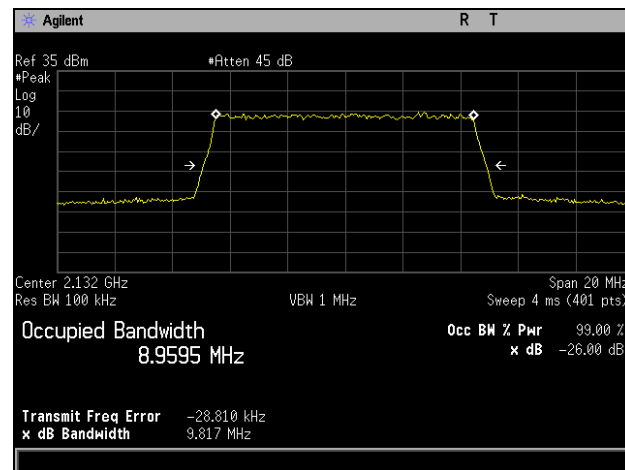


Plot 507. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 1, 10 MHz

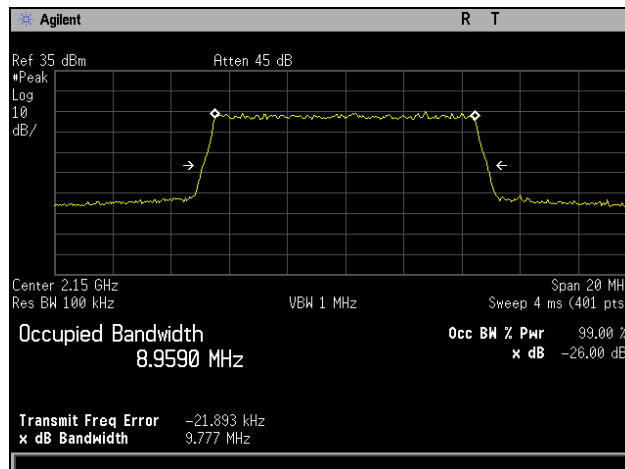
Occupied Bandwidth, Band 4, Port 2, 10 MHz



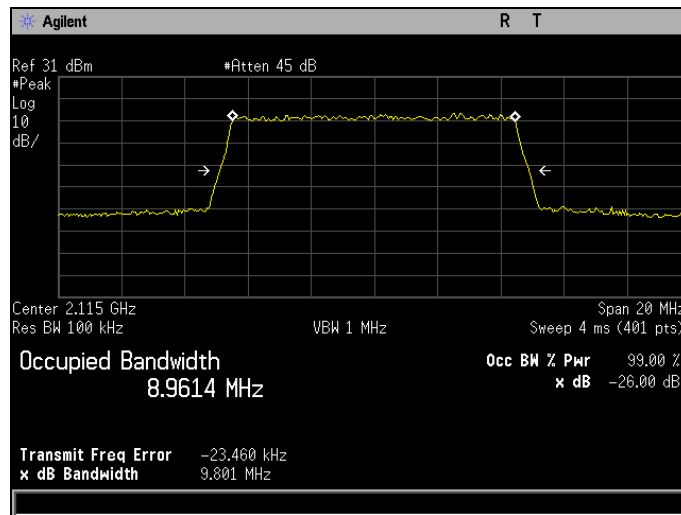
Plot 508. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 2, 10 MHz



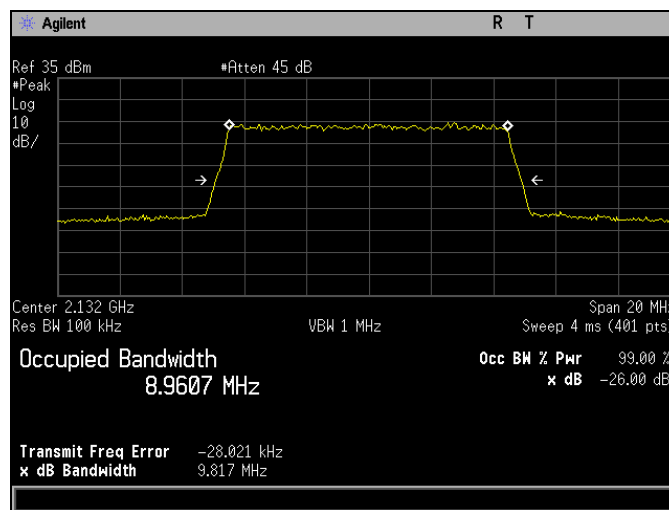
Plot 509. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 2, 10 MHz



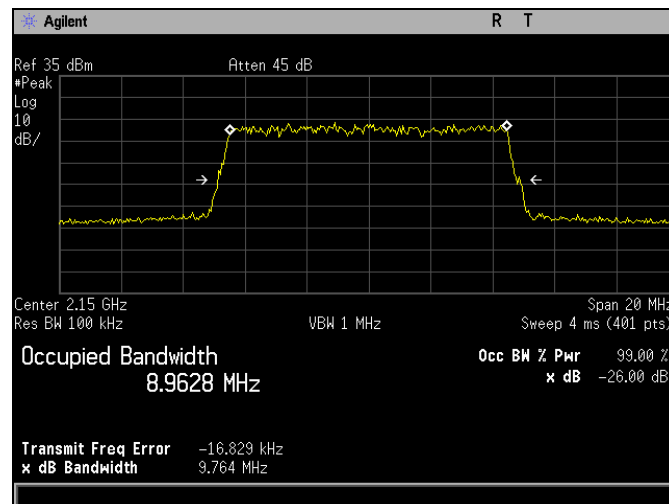
Plot 510. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 2, 10 MHz



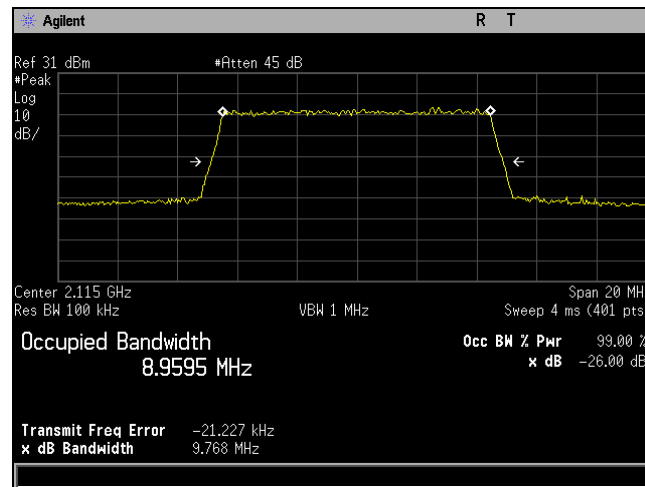
Plot 511. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 2, 10 MHz



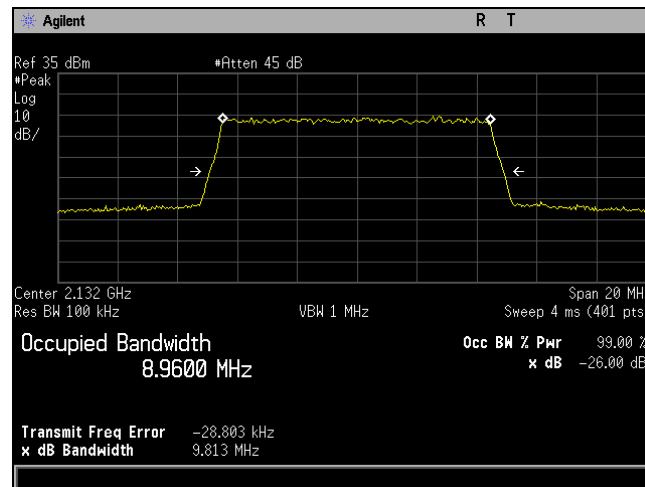
Plot 512. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 2, 10 MHz



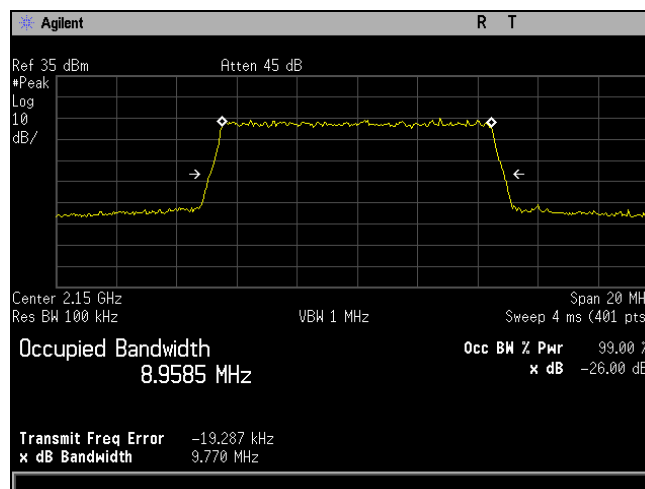
Plot 513. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 2, 10 MHz



Plot 514. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 2, 10 MHz

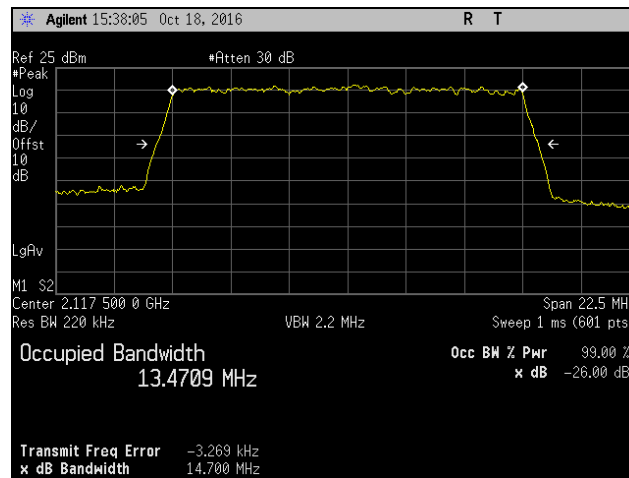


Plot 515. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 2, 10 MHz

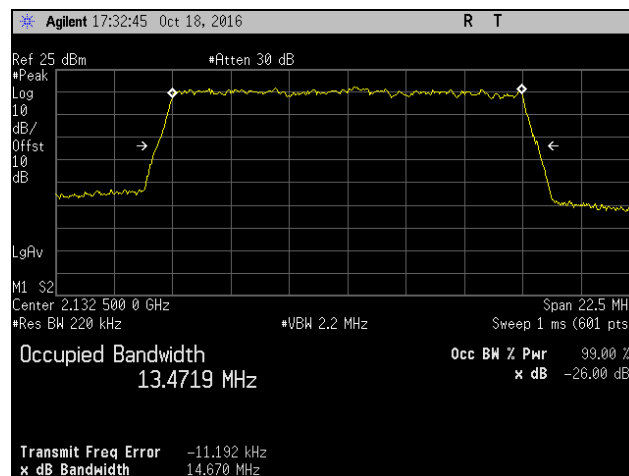


Plot 516. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 2, 10 MHz

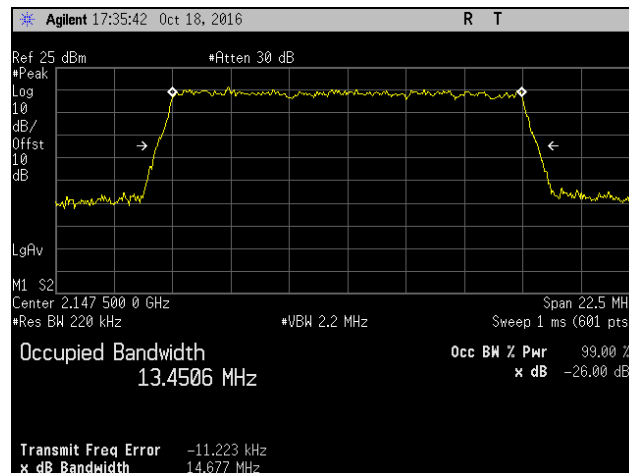
Occupied Bandwidth, Band 4, Port 1, 15 MHz



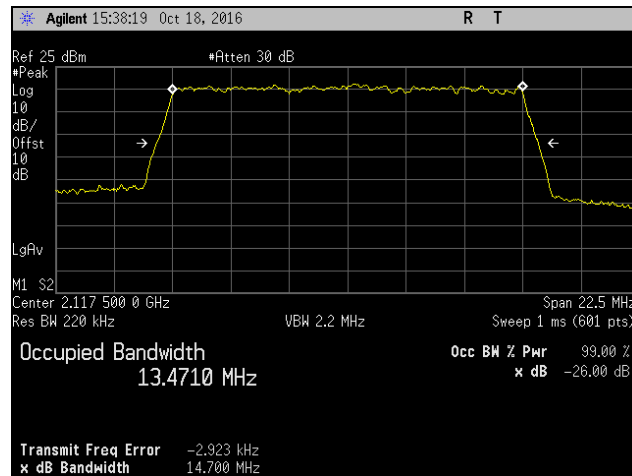
Plot 517. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 1, 15 MHz



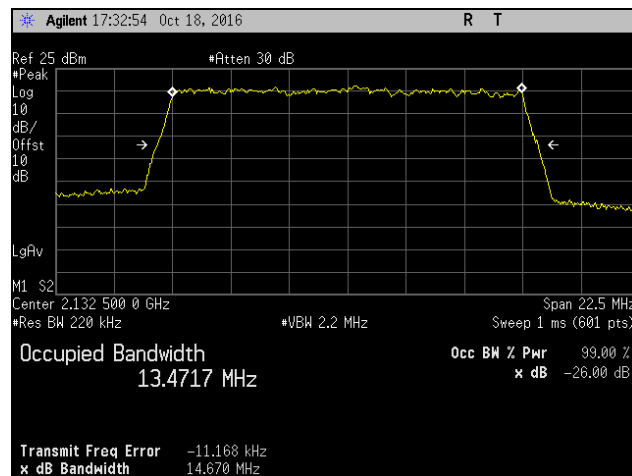
Plot 518. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 1, 15 MHz



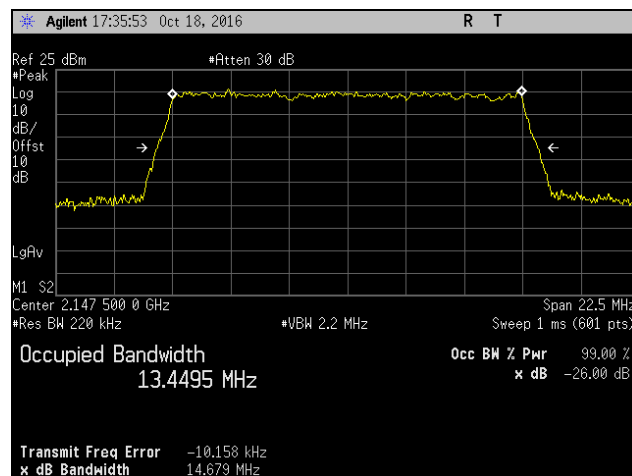
Plot 519. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 1, 15 MHz



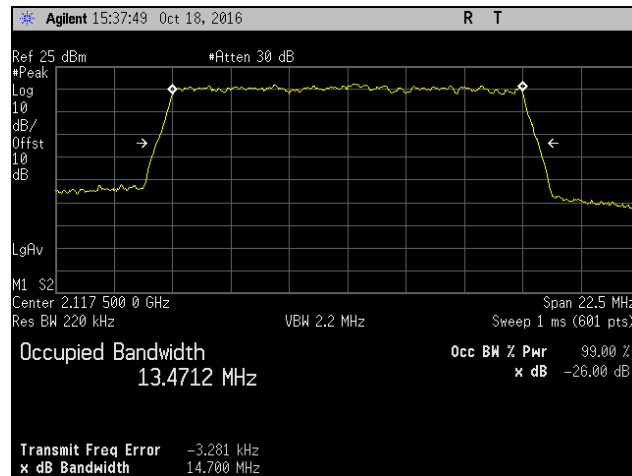
Plot 520. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 1, 15 MHz



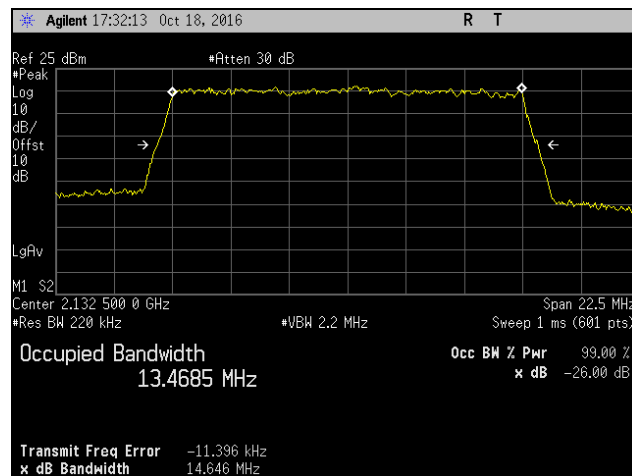
Plot 521. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 1, 15 MHz



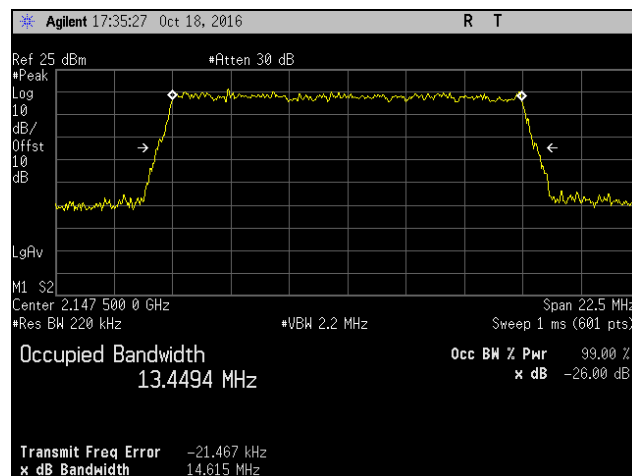
Plot 522. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 1, 15 MHz



Plot 523. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 1, 15 MHz

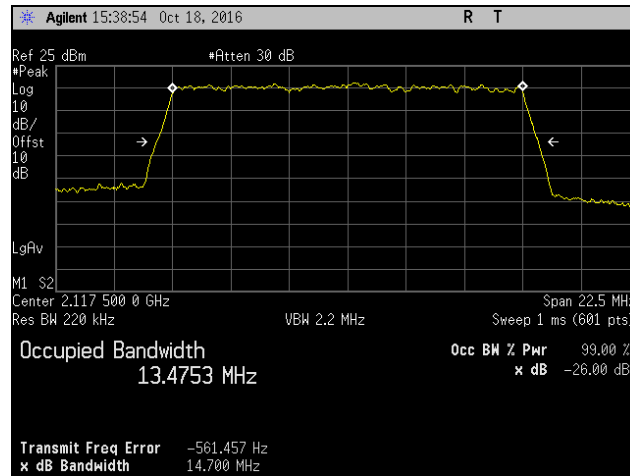


Plot 524. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 1, 15 MHz

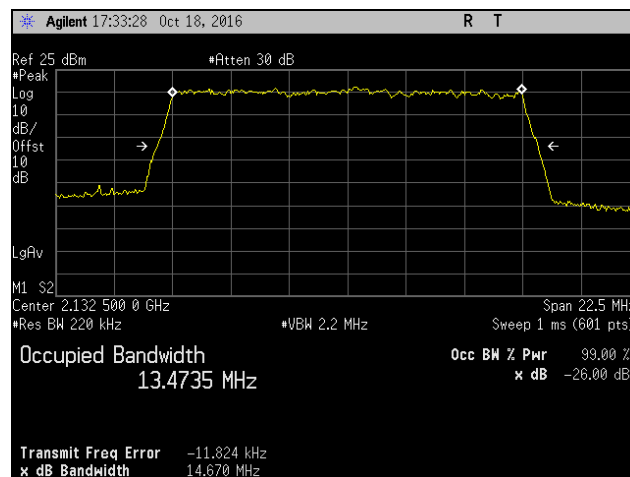


Plot 525. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 1, 15 MHz

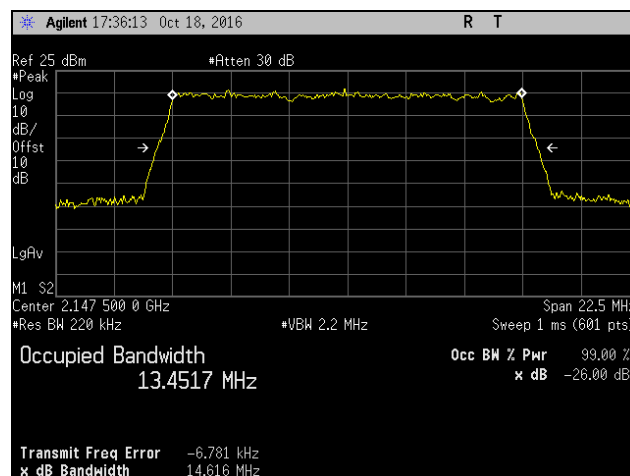
Occupied Bandwidth, Band 4, Port 2, 15 MHz



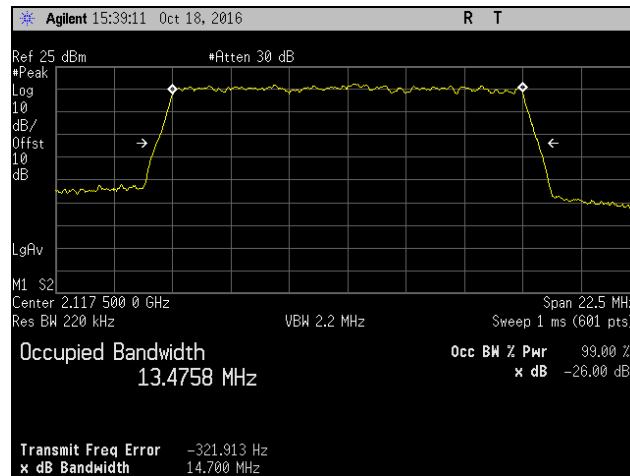
Plot 526. Occupied Bandwidth, -QAM-16, Low Channel, Band 4, Port 2, 15 MHz



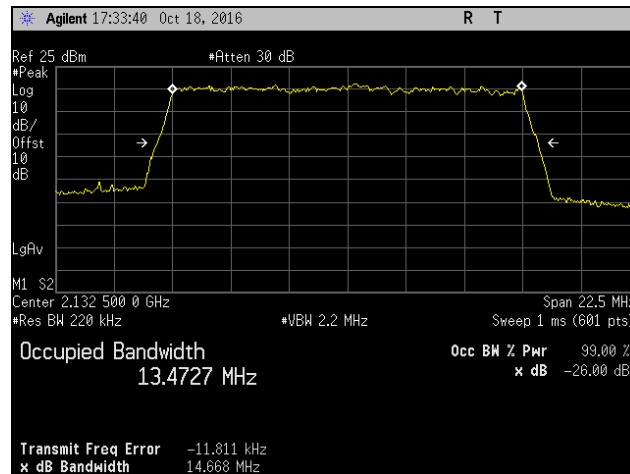
Plot 527. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 2, 15 MHz



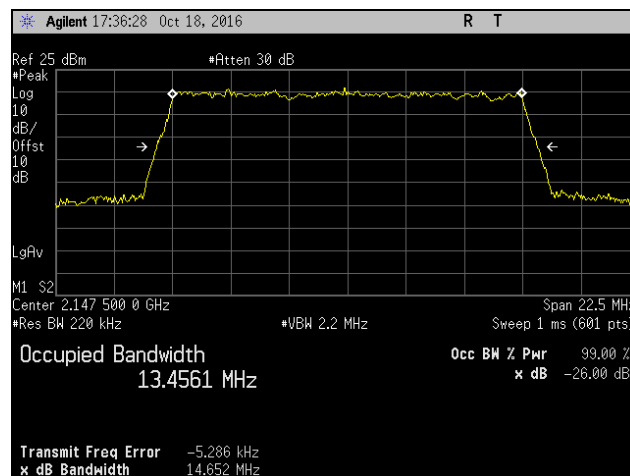
Plot 528. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 2, 15 MHz



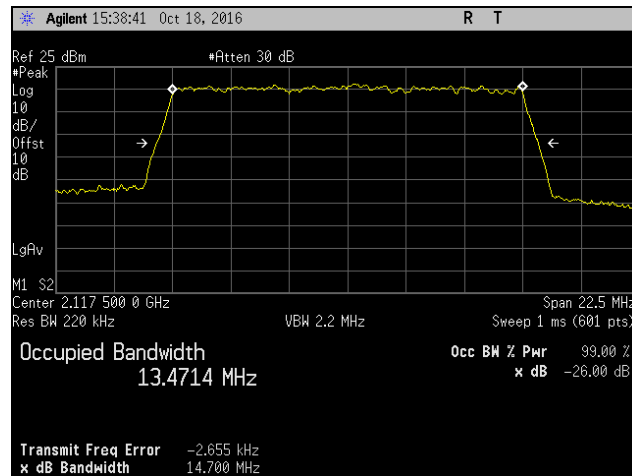
Plot 529. Occupied Bandwidth, QAM-64, Low Channel, Band 4, Port 2, 15 MHz



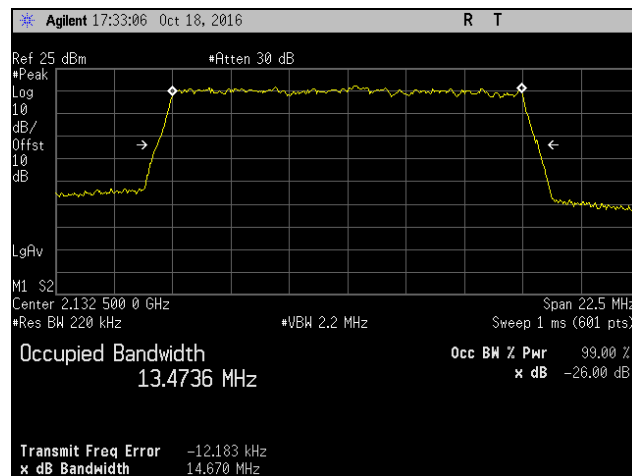
Plot 530. Occupied Bandwidth, QAM-64, Mid Channel, Band 4, Port 2, 15 MHz



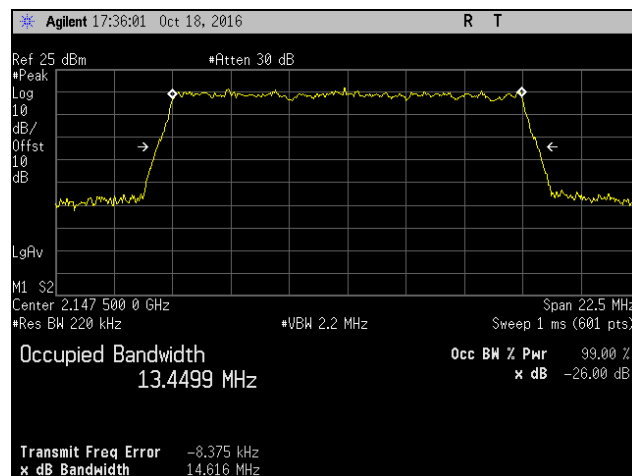
Plot 531. Occupied Bandwidth, QAM-64, High Channel, Band 4, Port 2, 15 MHz



Plot 532. Occupied Bandwidth, QPSK, Low Channel, Band 4, Port 2, 15 MHz

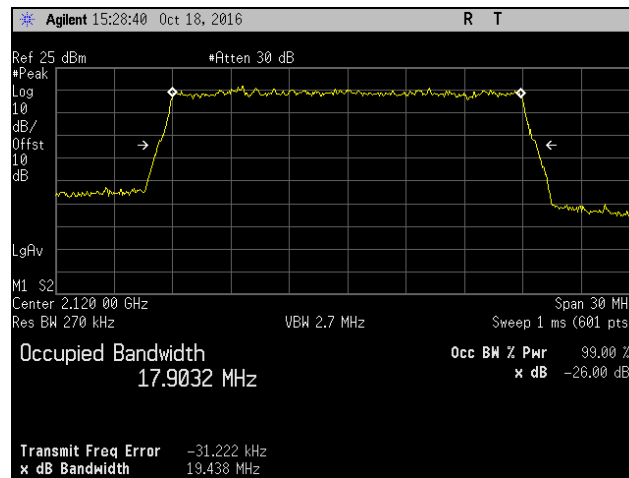


Plot 533. Occupied Bandwidth, QPSK, Mid Channel, Band 4, Port 2, 15 MHz

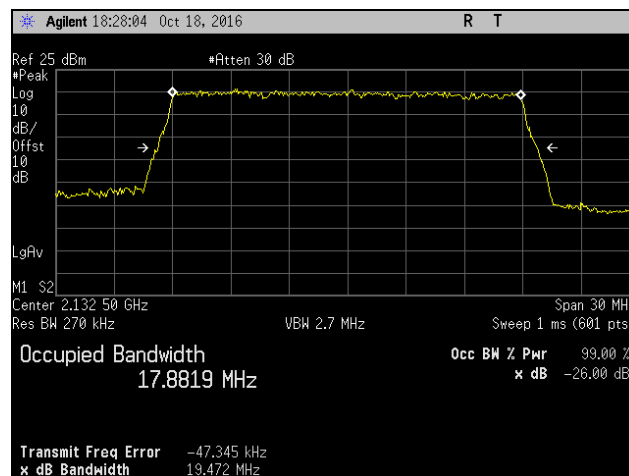


Plot 534. Occupied Bandwidth, QPSK, High Channel, Band 4, Port 2, 15 MHz

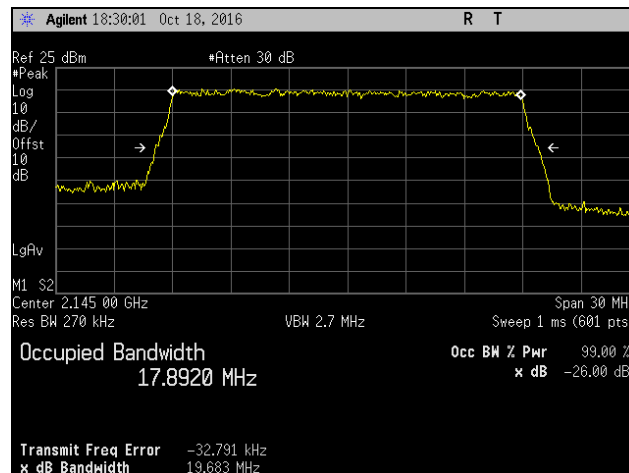
Occupied Bandwidth, Band 4, Port 1, 20 MHz



Plot 535. Occupied Bandwidth, QAM-16, Low Channel, Band 4, Port 1, 20 MHz



Plot 536. Occupied Bandwidth, QAM-16, Mid Channel, Band 4, Port 1, 20 MHz



Plot 537. Occupied Bandwidth, QAM-16, High Channel, Band 4, Port 1, 20 MHz