

FCC REPORT

FCC Certification

Applicant Name:
SAMSUNG Electronics Co.,Ltd.**Date of Issue:**

June 25, 2015

Test Site/Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea

Report No.: HCT-R-1506-F038-1**HCT FRN:** 0005866421**Address:**
129, Samsung-ro, Yeongtong-gu Suwon-si, Gyeonggi-do
443-742 Rep. of Korea**FCC ID : A3L SLS-BR02BQ****APPLICANT : SAMSUNG Electronics Co.,Ltd.**

EUT Type	:	RRU (Remote Radio Unit)
Manufacturer	:	SAMSUNG Electronics Co., Ltd.
Model name	:	SLS-BR02BQ
Frequency of Operation	:	2 496 MHz ~ 2 690 MHz
TX Output Power	:	160 W (20 W * 8 ports)
FCC Rule Part(s)	:	FCC Part 27 Subpart (c).
Emission Designator	:	18M0G7W(QPSK), 18M0W7W(16QAM/64QAM)
Test Procedure(s)	:	ANSI/TIA-603C-2004
Application Type	:	Original Equipment
Data of issue	:	June 25, 2015

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 FCC Part 27 of the FCC Rules under normal use and maintenance.



Report prepared by
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Test engineer of RF Team



Approved by
: Yong Hyun Lee
Manager of RF Team

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Revision

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1506-F038	June 16, 2015	- First Approval Report
HCT-R-1506-F038-1	June 17, 2015	-Revised Typographical errors.
HCT-R-1506-F038-2	June 19, 2015	- Additional Test Results
HCT-R-1506-F038-3	June 25, 2015	-Revised MPE Test Results

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1. GENERAL INFORMATION

1.1. Client Information

Company	Samsung Electronics Co., Ltd.
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Contact person	Name: HWAN-YOUL KIM / Principal Research Engineer E-mail : hwanyoul.kim@samsung.com Tel: +82-31-279-3092 Fax: +82-31-279-0476

1.2. Product Information

EUT TYPE	RRU (Remote Radio Unit)
EMISSION DESIGNATOR	18M0G7W(QPSK), 18M0W7W(16QAM/64QAM)
OPERATING FREQUENCY	2 496 MHz ~ 2 690 MHz
TX OUTPUT POWER	160 W (20 W * 8 Ports)
CHANNEL BANDWIDTH	LTE : 20 MHz
MODULATION TYPE	QPSK, 16QAM, 64QAM
MAXIMUM NUMBER OF CARRIERS/SECTORS	① Max 3 Carrier @ 6.67 W/carrier ② Max 2 Carrier @ 10 W/carrier
SYSTEM INPUT VOLTAGE	DC - 48 V

1.3. Introduction of EUT

‘CMTA’ + ‘PA’ are wideband RU(RF UNIT) with 8 transmits and 8 receive chain that covers the frequency range from 2496 to 2690MHz for TDLTE downlink and uplink. CMTA is main RF UNIT and PA is Front end unit which include Power Amp and LNA (low noise amplifier)

It provides 8 Transmit and 8 Receive path

- Operates TDLTE 8Tx/8Rx, 4Tx/8Rx, 4Tx/4Rx, 2Tx/2Rx

60MHz band operation bandwidth in transmit and receive path

- Operational frequency range for uplink/downlink : 2496 ~ 2690MHz

Output power of RU(RF UNIT) at the output port is

- The maximum average RF output power per path is 20W, and the overall maximum output power of RU is 160W which is the total output power over 8TX paths.
- The output power is dependent on the carrier configurations

① 6.67W x 8Tx @ 8T8R up to 3Carrier (1.2dB Power Boosting)

This means 6.67W per carrier, up to 3 carriers per port,

8 ports = $8 \times 3 \times 6.67 \text{ W} = 160\text{Watts}$ total power.

Maximum power per port is $6.67 \times 3 = 20\text{Watts}$.

② 10W x 4Tx @ 4T8R, up to 2Carrier + 2Carrier (3dB Power Boosting)

This means 10W per carrier, up to 2 carriers per port and the rf outputs are split into two groups, each supporting 4MIMO transmit chains.

Total power = $(10 \times 2 \times 4) \times 2 = 160\text{W}$ total power.

Maximum power per port is $10\text{W} \times 2 = 20\text{W}$.

All eight ports receive and are used to support both transmit groups (so we have 4Tx8Rx on each group).

③ 6.6W x 4Tx @ 4T8R, 3Carrier + 3Carrier (1.2dB Power Boosting)

This means 6.6W per carrier, up to 3 carriers per port, and the rf outputs are split into two groups, each supporting 4MIMO transmit chains.

Total power = $(6.6 \times 3 \times 4) \times 2 = 158\text{W}$ total power.

Maximum power per port is $6.6\text{W} \times 3 = 19.8\text{W}$.

2. TEST SUMMARY

2.1. Standards

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance With **FCC Part 27**

SECTION	TEST ITEMS	RESULTS
2.1046, 27.50(h)	Conducted Output Power	Compliant
2.1049, 27.53(m)	Occupied Bandwidth	Compliant
2.1051, 27.53(m)	Spurious Emissions at Antenna Terminals	Compliant
2.1051, 27.53(m)	Band edge	Compliant
2.1053, 27.53(m)	Spurious Radiated Emissions.	Compliant
2.1055(a)(1), 27.54	Frequency Stability over Temperature variation	Compliant
2.1055(d), 27.54	Frequency stability over Voltage variation	Compliant

2.2. Mode of operation during the test

The EUT was operated in a manner representative of the typical usage of the equipment.

During all testing, system components were manipulated within the confines of typical usage to maximize each emission. All Modulation (QPSK, 16QAM and 64QAM) modes were tested.

3. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+ 15 °C to + 35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1060 mbar

4. TEST EQUIPMENT

Manufacturer	Model / Equipment	Serial No.	Calibration Interval	Calibration Due
Schwarzbeck	BBHA 9120D / Double Ridged Horn Antenna	1151	Biennial	07/05/2013
Schwarzbeck	VULB 9160 / TRILOG Antenna	3368	Biennial	10/10/2014
HD	MA240 / Antenna Position Tower	556	N/A	N/A
EMCO	1050 / Turn Table	114	N/A	N/A
HD GmbH	HD 100 / Controller	13	N/A	N/A
HD GmbH	KMS 560 / SlideBar	12	N/A	N/A
Rohde & Schwarz	SCU-18/ Signal Conditioning Unit	10094	Annual	09/04/2014
Agilent	N9020A /Signal Analyzer	MY51110068	Annual	07/21/2014
Rohde & Schwarz	FSP / Spectrum Analyzer	836650/016	Annual	10/24/2014
Agilent	6674A / DC Power Supply	3501A00901	Annual	07/24/2014
WEINSCHTEL	67-30-33 / Attenuator	CC7264	Annual	08/25/2014
WEINSCHTEL	67-30-33 / Attenuator	CC7265	Annual	08/26/2014
WEINSCHTEL	AF9003-69-31 / Attenuator	11787	Annual	10/24/2014
Nang-Yeoul	NY-THR18750 / Temperature Chamber	NY-2009012201A	Annual	11/03/2014
WAINWRIGHT INSTRUMENT	WHK3.0/18G-10EF /HIGHPASS FILTE	8	Annual	06/23/2014
DYENT	DFSS60 / DC Power Supply	1003030-1	Annual	04/01/2014

5. CONDUCTED OUTPUT POWER

5.1. Applicable Standard

According to FCC §2.1046 & 27.50(h)

- 1) *Main, booster and base stations.* (i) The maximum EIRP of a main, booster or base station shall not exceed $33 \text{ dBW} + 10\log(X/Y) \text{ dBW}$, where X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition, except as provided in paragraph (h)(1)(ii) of this section.

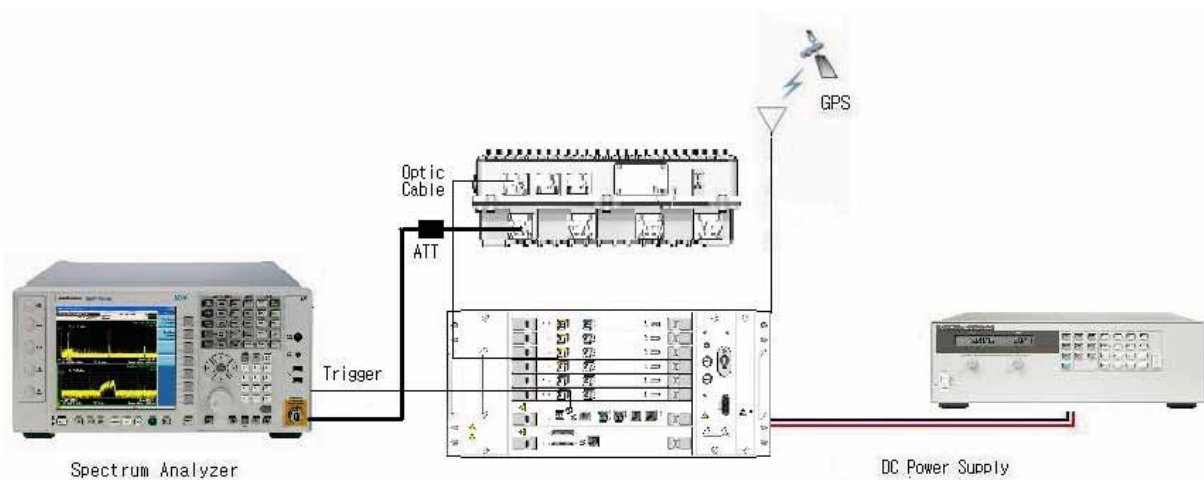
(ii) If a main or booster station sectorizes or otherwise uses one or more transmitting antennas with a non-omnidirectional horizontal plane radiation pattern, the maximum EIRP in dBW in a given direction shall be determined by the following formula: $\text{EIRP} = 33 \text{ dBW} + 10 \log(X/Y) \text{ dBW} + 10 \log(360/\text{beamwidth}) \text{ dBW}$, where X is the actual channel width in MHz, Y is either (i) 6 MHz if prior to transition or the station is in the MBS following transition or (ii) 5.5 MHz if the station is in the LBS and UBS following transition, and beamwidth is the total horizontal plane beamwidth of the individual transmitting antenna for the station or any sector measured at the half-power points.

5.2. Test Equipment List and Details

Manufacturer	Model / Equipment	Serial No.	Calibration Interval	Calibration Due
Agilent	N9020A /Signal Analyzer	MY51110068	Annual	07/21/2014
Agilent	6674A / DC Power Supply	3501A00901	Annual	07/24/2014
WEINSCHL	67-30-33 / Attenuator	CC7264	Annual	08/25/2014
WEINSCHL	67-30-33 / Attenuator	CC7265	Annual	08/26/2014
WEINSCHL	AF9003-69-31 / Attenuator	11787	Annual	10/24/2014
DYENT	DFSS60 / DC Power Supply	1003030-1	Annual	04/01/2014

5.3. Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.



According to FCC §2.1046 (a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

- 1) The radio frequency load attached to the EUT antenna terminal was 50 Ohm. The loss of the cables the test system is calibrated to correct the reading.
- 2) The spectrum analyzer was set to RMS Detector function and Average mode.
- 3) The resolution bandwidth of the spectrum analyzer was comparable to the emission bandwidth.

5.4. Test Result

: PASS

LTE20M(6.67W)

5.4.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	38.57	7.19	38.72	7.45	38.53	7.13
2593	38.66	7.35	38.71	7.43	38.54	7.14
2680	38.24	6.67	38.24	6.67	38.30	6.76

5.4.2. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	38.53	7.13	38.41	6.93	38.69	7.40
2593	38.40	6.92	38.16	6.55	38.05	6.38
2680	38.53	7.13	38.67	7.36	38.58	7.21

● Test Data at EIRP Power

1. EDTA gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2506	64QAM	58.12	18	35.64	38.22

2. Traffic Beam Gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2506	64QAM	58.12	22	39.64	45.65

* NOTE : The EIRP Power were calculated at the highest Total Output Power

LTE20M(6.67W) 3 Carrier

5.5.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2526	43.35	21.63	43.29	21.33	43.35	21.63
2593	43.41	21.93	43.40	21.88	43.38	21.78
2660	43.29	21.33	43.18	20.80	43.28	21.28

5.5.2. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2526	43.38	21.78	43.24	21.09	43.25	21.13
2593	43.43	22.03	43.41	21.93	43.21	20.94
2660	43.33	21.53	43.44	22.08	43.44	22.08

● Test Data at EIRP Power

1. EDTA gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2593	16QAM	175.84	18	40.45	43.00

2. Traffic Beam Gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2593	16QAM	175.84	22	44.45	50.43

* NOTE : The EIRP Power were calculated at the highest Total Output Power

LTE20M(10W)

5.6.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.21	10.50	40.36	10.88	40.49	11.18
2593	39.96	9.90	40.16	10.38	40.05	10.13
2680	39.89	9.76	40.06	10.14	40.00	10.00

5.6.2. Test Data at Output Port 2

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.15	10.35	40.28	10.66	40.19	10.44
2593	39.94	9.86	40.05	10.12	39.90	9.78
2680	40.21	10.49	40.15	10.35	40.08	10.18

5.6.3. Test Data at Output Port 3

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.24	10.56	40.41	10.98	40.29	10.70
2593	39.62	9.16	39.94	9.86	39.72	9.37
2680	39.55	9.03	39.76	9.46	39.72	9.37

5.6.4. Test Data at Output Port 4

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.15	10.35	40.22	10.52	40.17	10.39
2593	40.04	10.09	40.12	10.29	40.16	10.38
2680	40.37	10.89	40.46	11.12	40.27	10.65

5.6.5. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.20	10.46	40.32	10.75	40.22	10.53
2593	39.97	9.94	40.19	10.45	39.92	9.83
2680	40.04	10.08	40.13	10.30	40.04	10.10

5.6.6. Test Data at Output Port 6

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	40.00	9.99	40.07	10.16	40.02	10.05
2593	39.90	9.77	40.00	10.01	39.88	9.72
2680	39.86	9.69	39.84	9.63	39.74	9.42

5.6.7. Test Data at Output Port 7

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.74	9.41	39.84	9.63	39.99	9.97
2593	39.84	9.64	39.87	9.70	39.81	9.58
2680	40.10	10.23	40.18	10.42	40.01	10.03

5.6.8. Test Data at Output Port 8

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2506	39.94	9.86	40.08	10.18	40.06	10.15
2593	39.90	9.76	39.85	9.65	39.95	9.89
2680	40.00	10.00	39.84	9.65	39.80	9.56

5.6.9. Measure and sum data (8 Ports)

Frequency (MHz)	Output Power (W)		
	QPSK	16QAM	64QAM
2506	81.49	83.77	83.41
2593	78.13	80.46	78.67
2680	80.16	81.06	79.31

● Test Data at EIRP Power

1. EDTA gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2506	16QAM	83.77	18	37.23	38.22

2. Traffic Beam Gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2506	16QAM	83.77	22	41.23	45.65

* NOTE : The EIRP Power were calculated at the highest Total Output Power

LTE20M(10W) 2 Carrier

5.7.1. Test Data at Output Port 1

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	43.18	20.80	43.13	20.56	43.22	20.99
2593	42.94	19.69	43.14	20.62	43.12	20.53
2670	42.77	18.93	42.72	18.71	42.89	19.44

5.7.2. Test Data at Output Port 2

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	43.07	20.28	43.03	20.09	43.07	20.26
2593	43.01	20.01	42.99	19.92	43.02	20.03
2670	43.13	20.56	43.18	20.78	43.33	21.54

5.7.3. Test Data at Output Port 3

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	40.24	19.94	40.41	20.06	40.29	21.13
2593	39.62	18.93	39.94	19.33	39.72	19.33
2670	39.55	17.70	39.76	18.99	39.72	18.20

5.7.4. Test Data at Output Port 4

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	40.15	21.43	40.22	20.59	40.17	20.99
2593	40.04	20.31	40.12	19.64	40.16	20.92
2670	40.37	20.81	40.46	20.65	40.27	21.07

5.7.5. Test Data at Output Port 5

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	40.20	20.13	40.32	20.67	40.22	20.60
2593	39.97	19.47	40.19	19.43	39.92	19.66
2670	40.04	20.65	40.13	20.36	40.04	20.15

5.7.6. Test Data at Output Port 6

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	40.00	19.04	40.07	19.41	40.02	19.38
2593	39.90	19.09	40.00	20.16	39.88	19.81
2670	39.86	19.84	39.84	18.97	39.74	19.18

5.7.7. Test Data at Output Port 7

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	39.74	18.94	39.84	19.11	39.99	19.67
2593	39.84	19.32	39.87	19.48	39.81	19.43
2670	40.10	20.58	40.18	20.31	40.01	19.98

5.7.8. Test Data at Output Port 8

Frequency (MHz)	Output Power					
	QPSK		16QAM		64QAM	
	dBm	W	dBm	W	dBm	W
2516	39.94	19.60	40.08	19.44	40.06	20.55
2593	39.90	19.16	39.85	19.63	39.95	19.30
2670	40.00	20.03	39.84	19.77	39.80	20.04

5.7.9. Measure and sum data (8 Ports)

Frequency (MHz)	Output Power (W)		
	QPSK	16QAM	64QAM
2516	160.16	159.93	163.58
2593	155.99	158.21	159.01
2670	159.09	158.54	159.61

● Test Data at EIRP Power

1. EDTA gain

Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2516	64QAM	163.58	18	40.14	41.23

2. Traffic Beam Gain

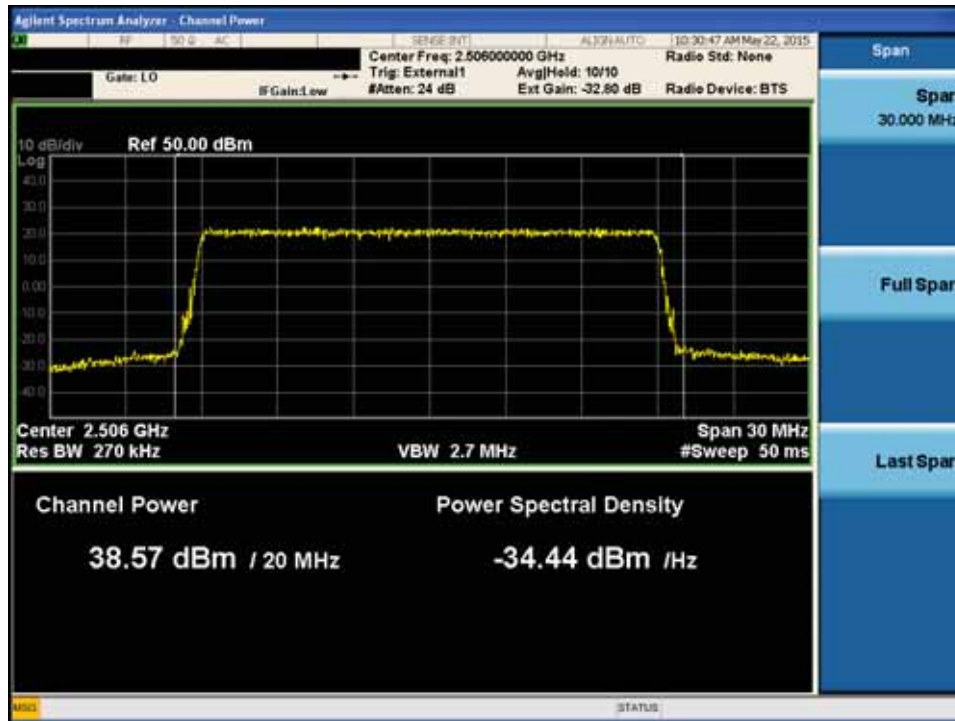
Frequency (MHz)	Mode	Total Output Power (W)	Ant Gain (dBi)	EIRP (dBW)	LIMIT (dBW)
2516	64QAM	163.58	22	44.14	48.66

* NOTE : The EIRP Power were calculated at the highest Total Output Power

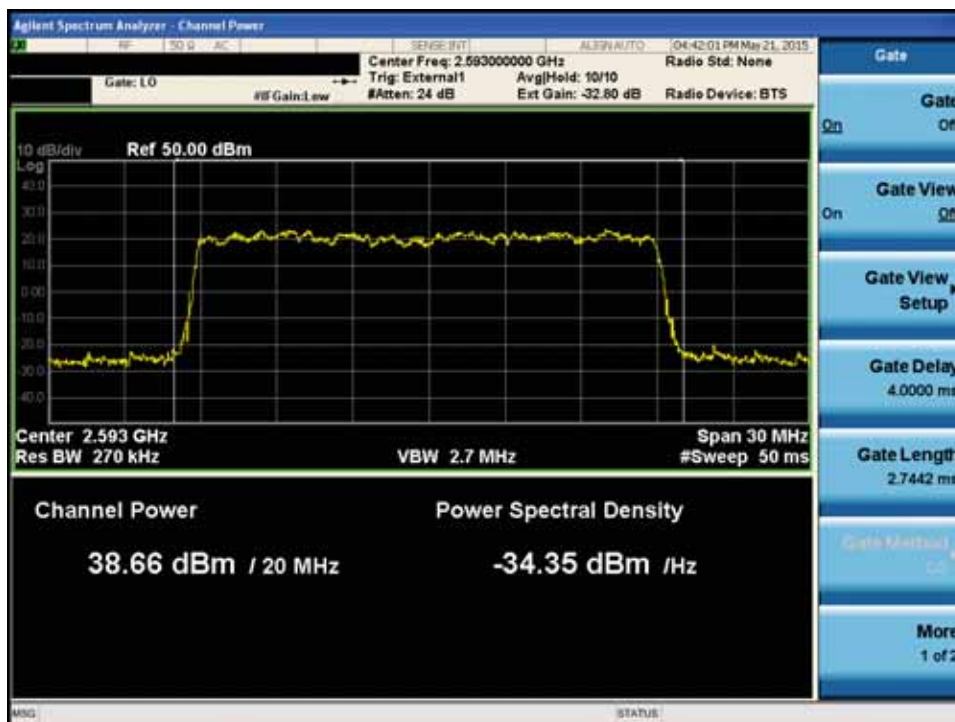
LTE20M(6.67W)

5.7.10. Plot Data for Output Port 1 (Conducted Output Power)

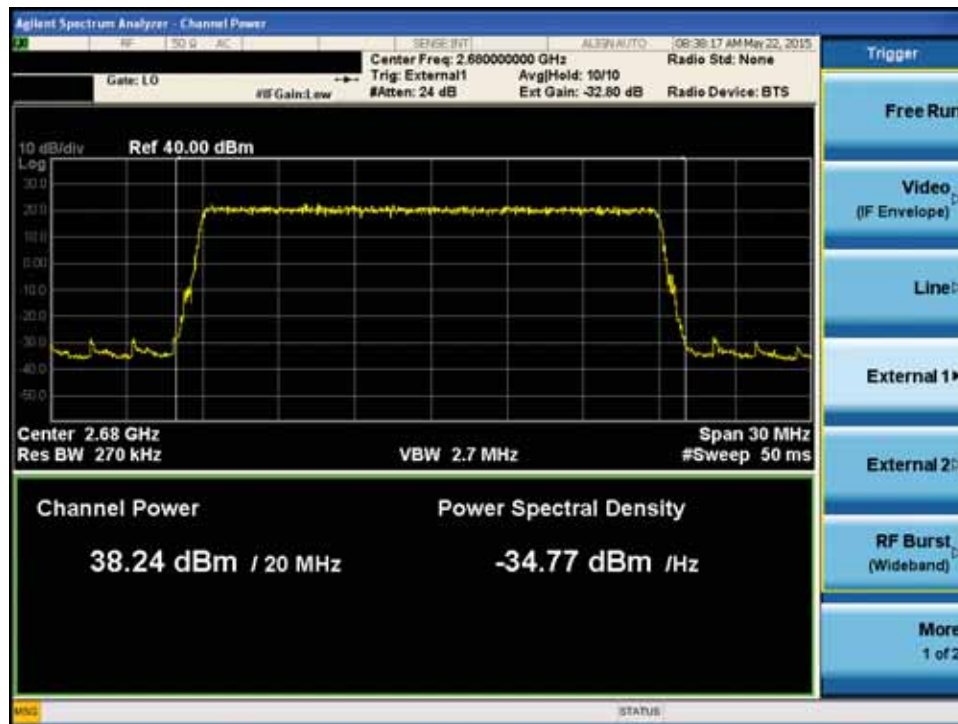
(QPSK Low Channel)



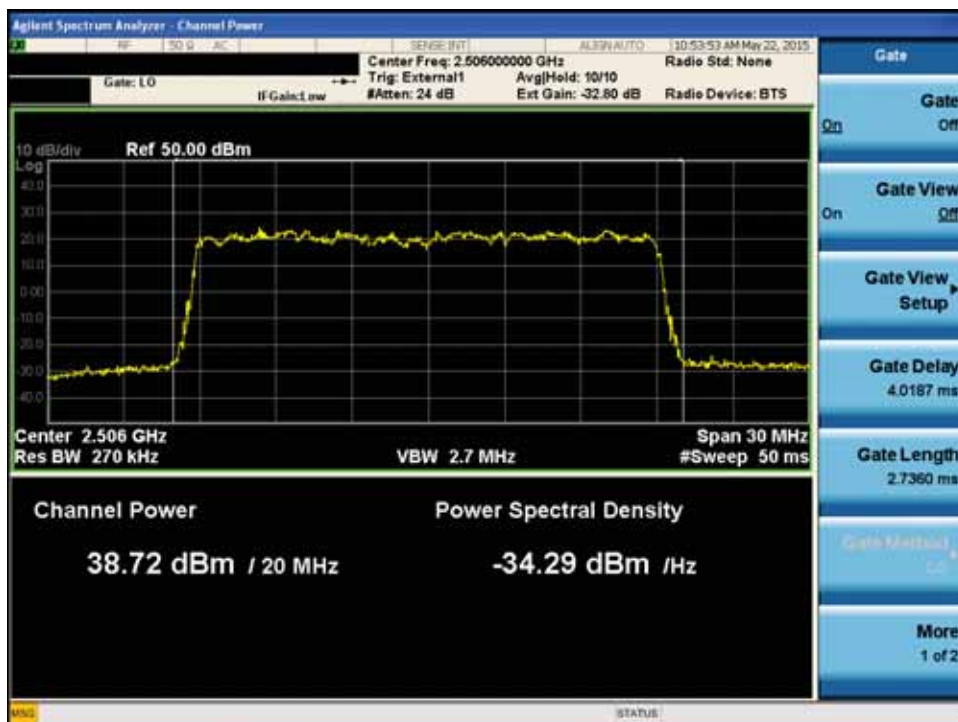
(QPSK Middle Channel)



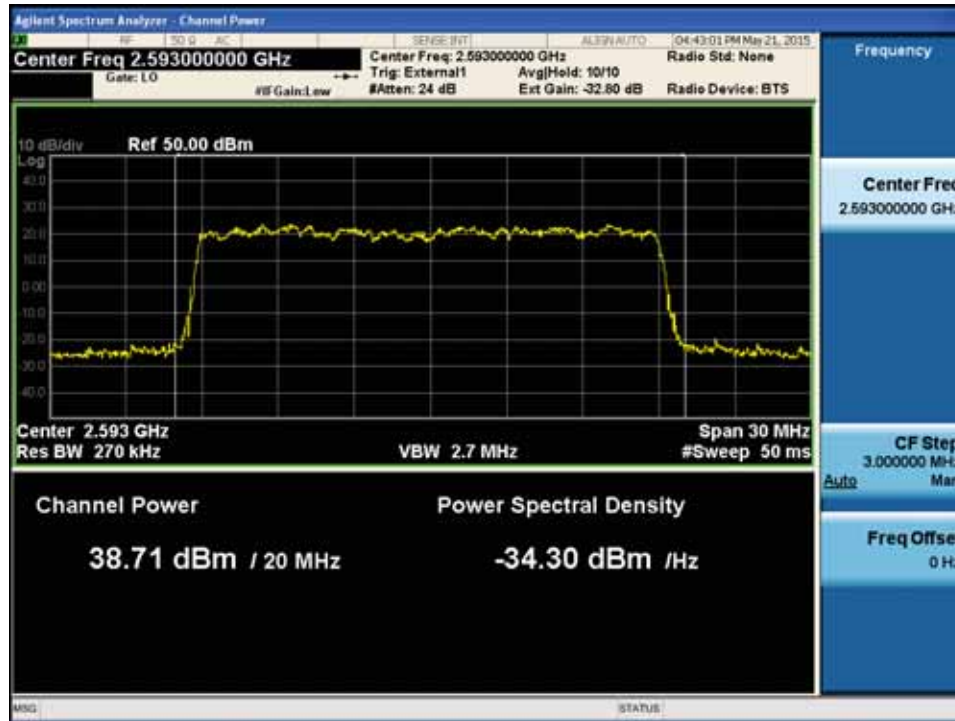
(QPSK High Channel)



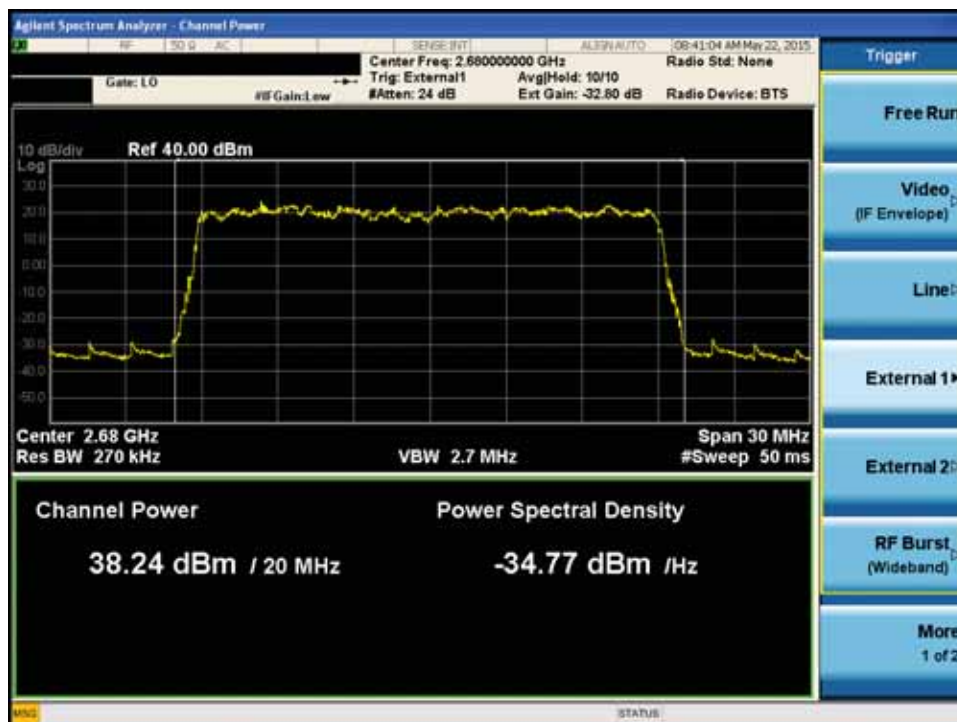
(16QAM Low Channel)



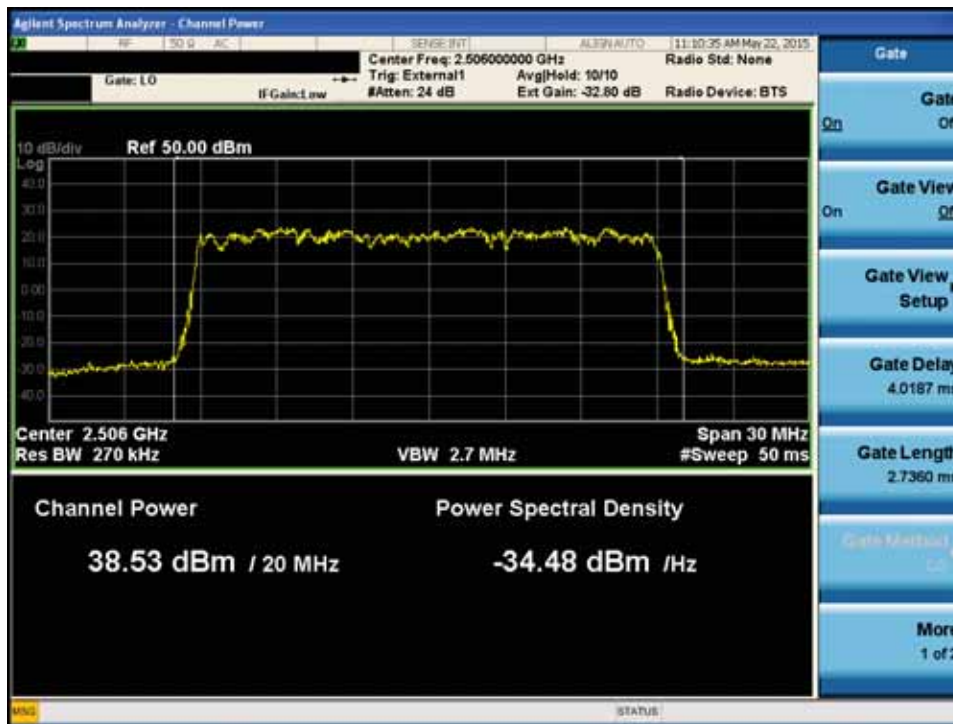
(16QAM Middle Channel)



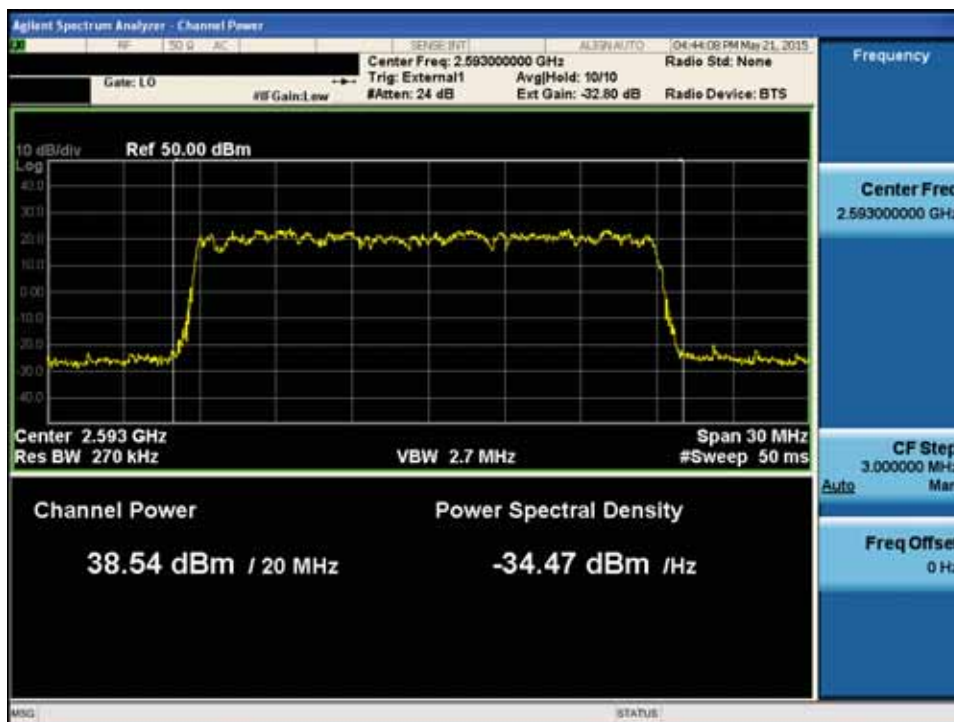
(16QAM High Channel)



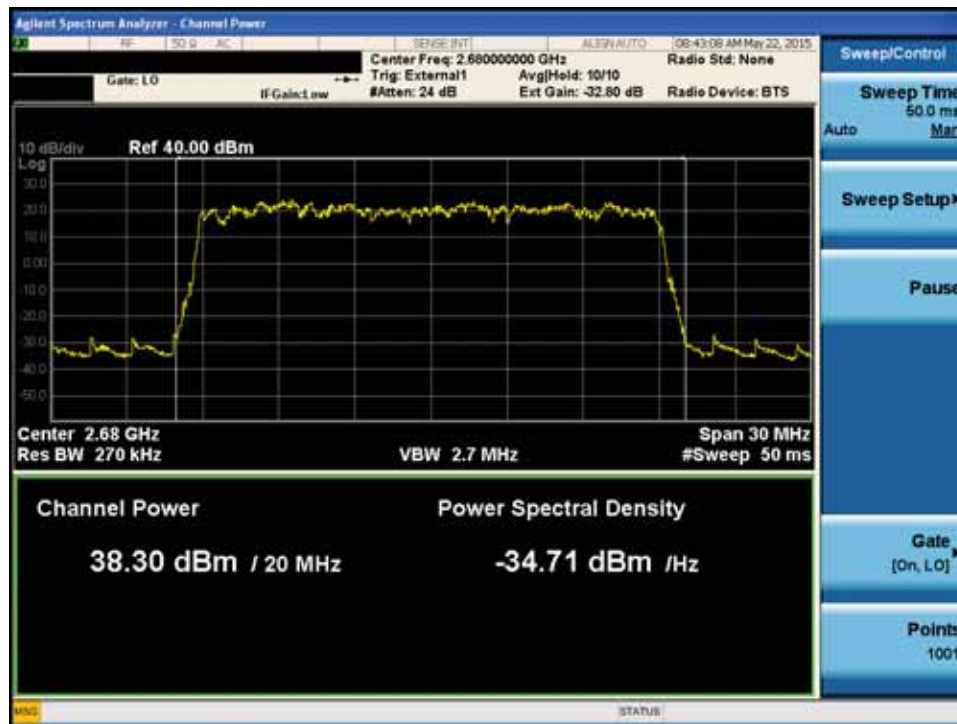
(64QAM Low Channel)



(64QAM Middle Channel)



(64QAM High Channel)

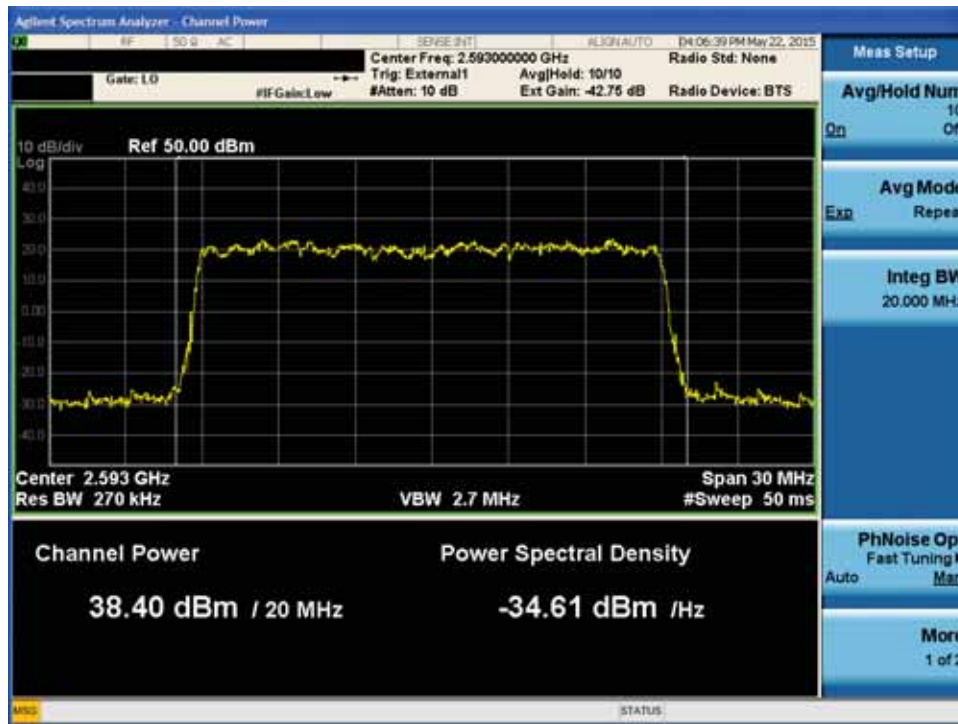


5.7.11. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)



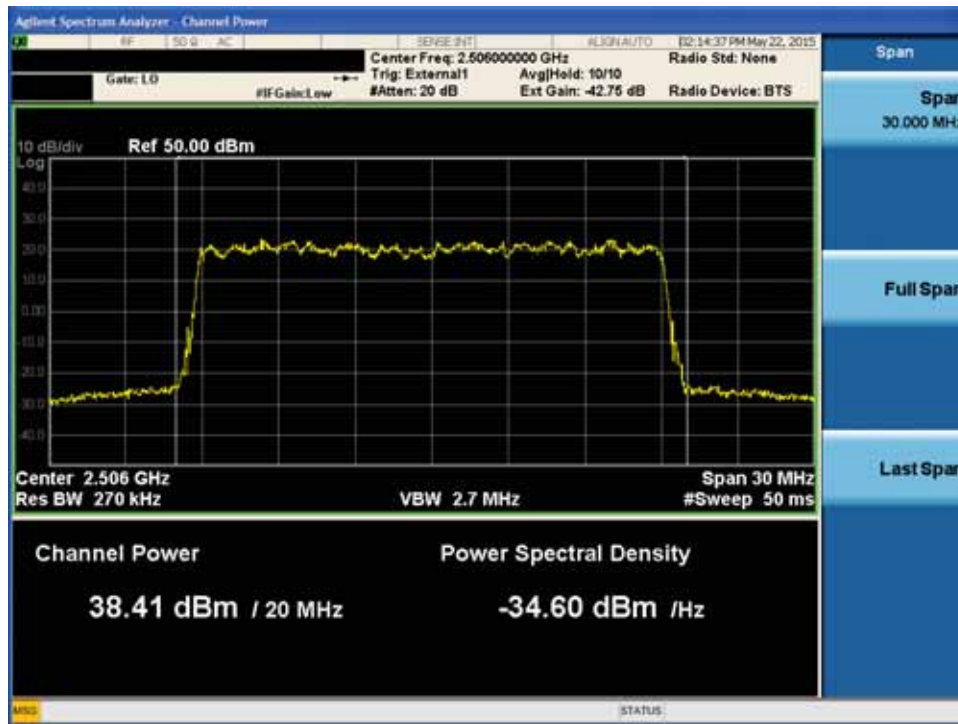
(QPSK Middle Channel)



(QPSK High Channel)



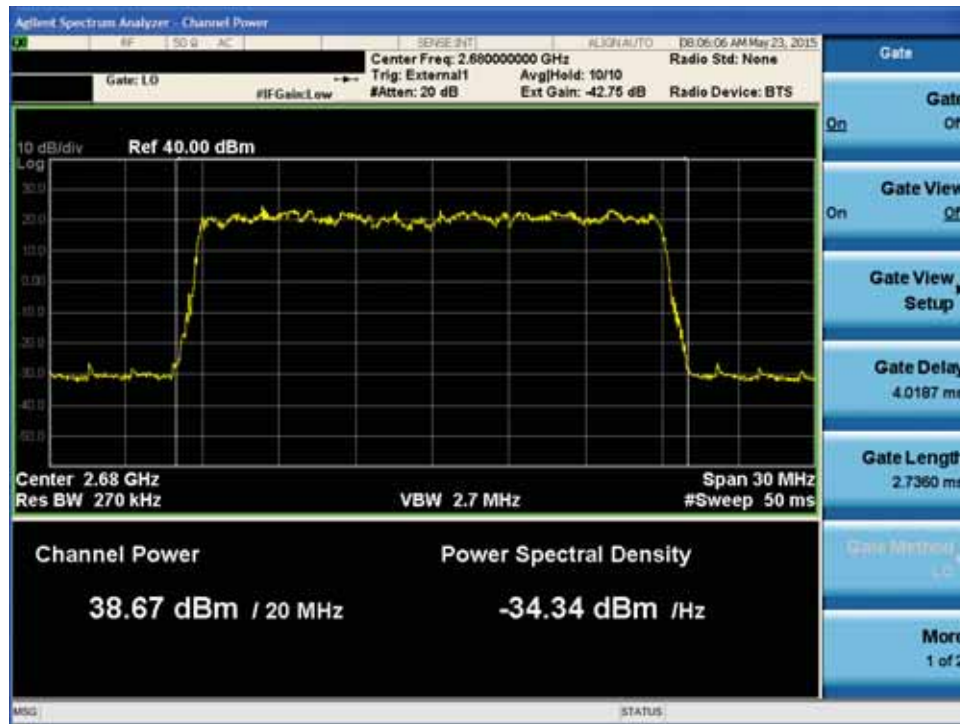
(16QAM Low Channel)



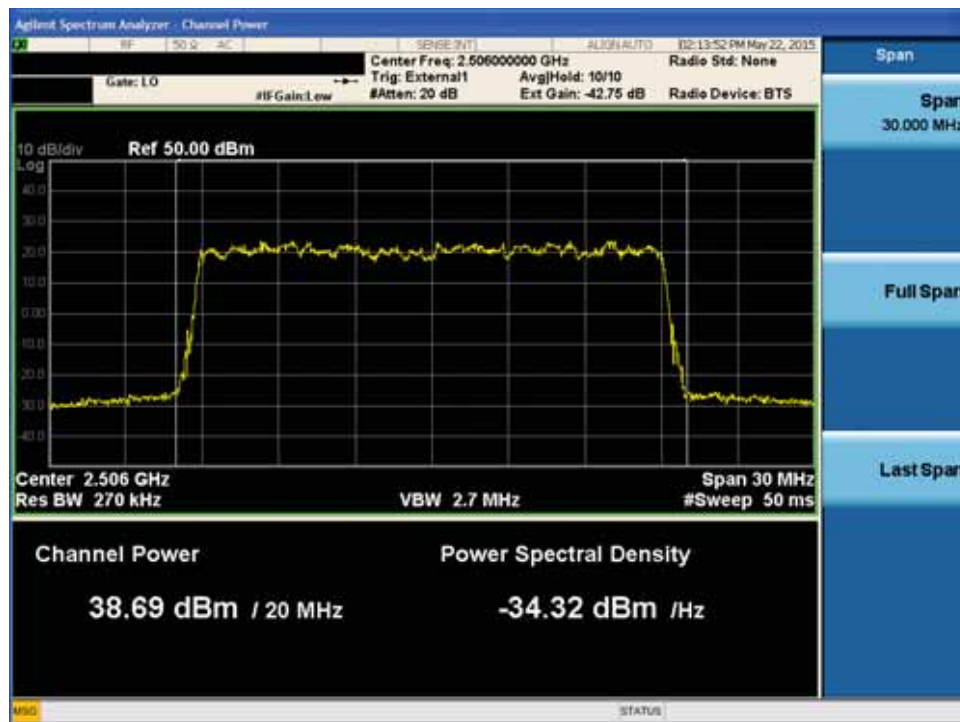
(16QAM Middle Channel)



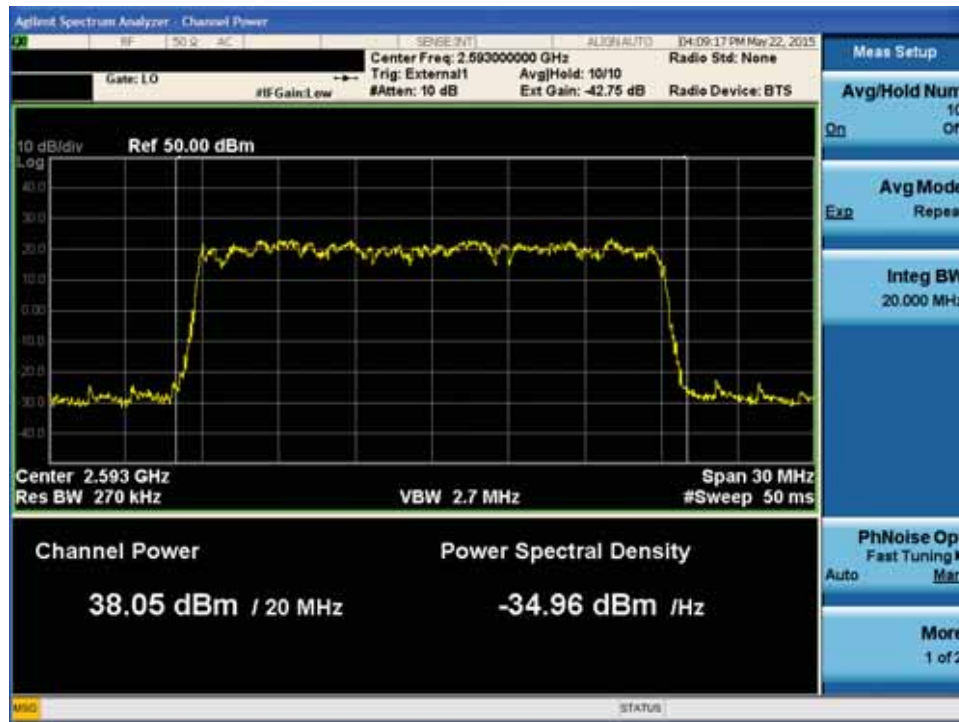
(16QAM High Channel)



(64QAM Low Channel)



(64QAM Middle Channel)



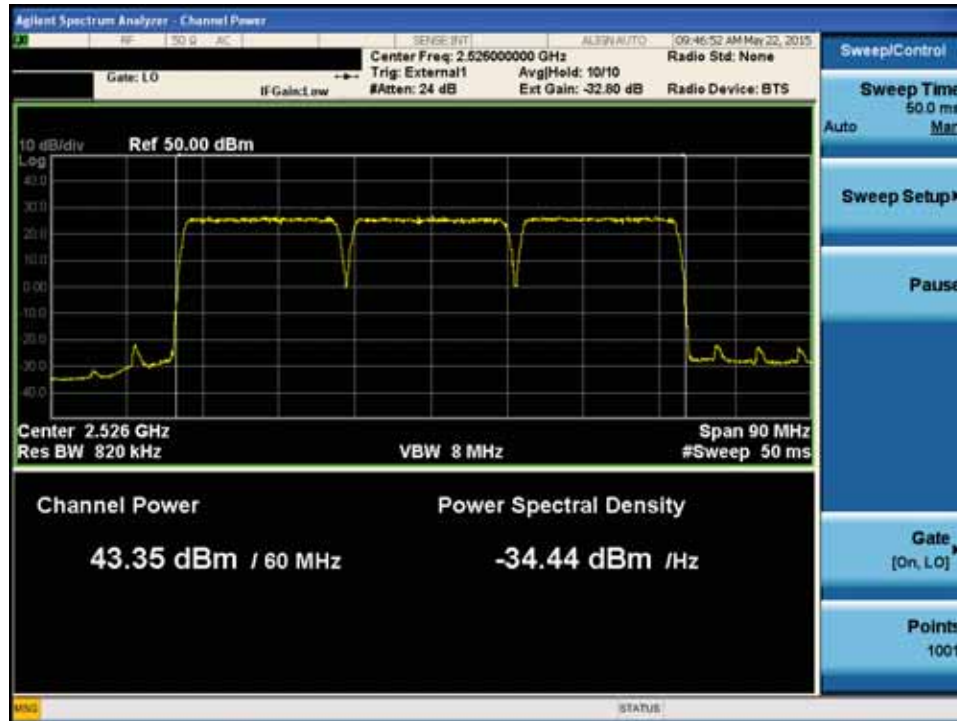
(64QAM High Channel)



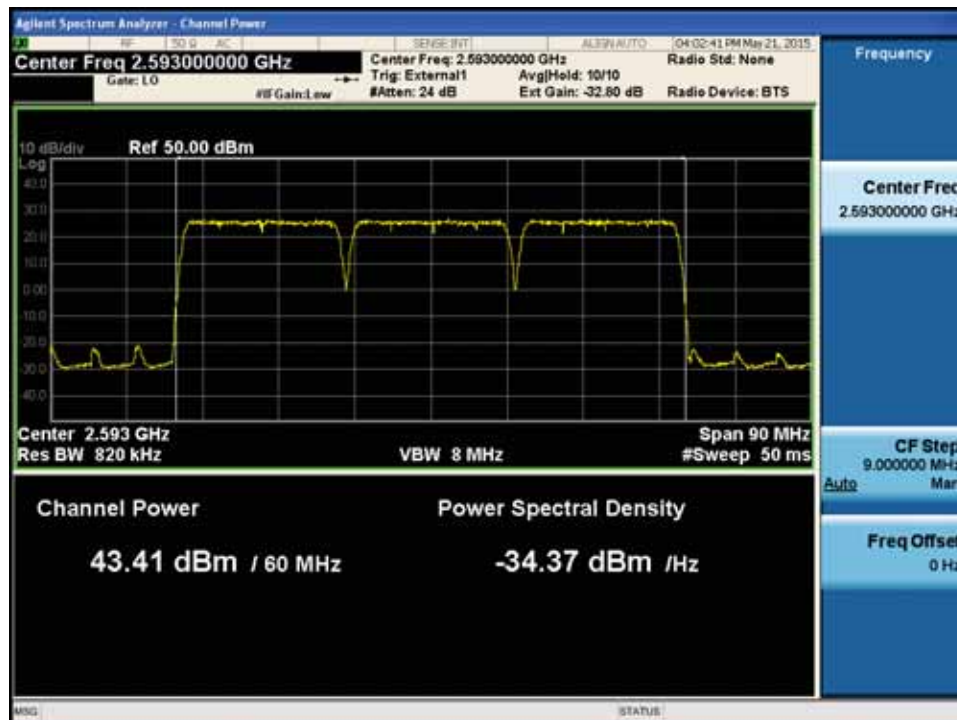
LTE20M(6.67W) 3 Carrier

5.7.12. Plot Data for Output Port 1 (Conducted Output Power)

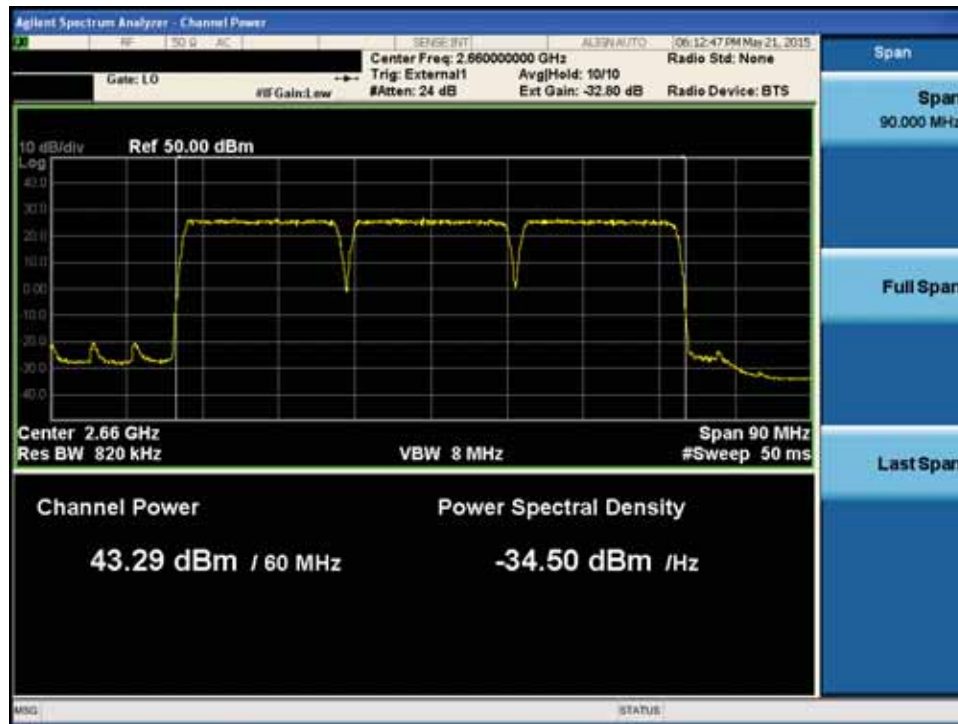
(QPSK Low Channel)



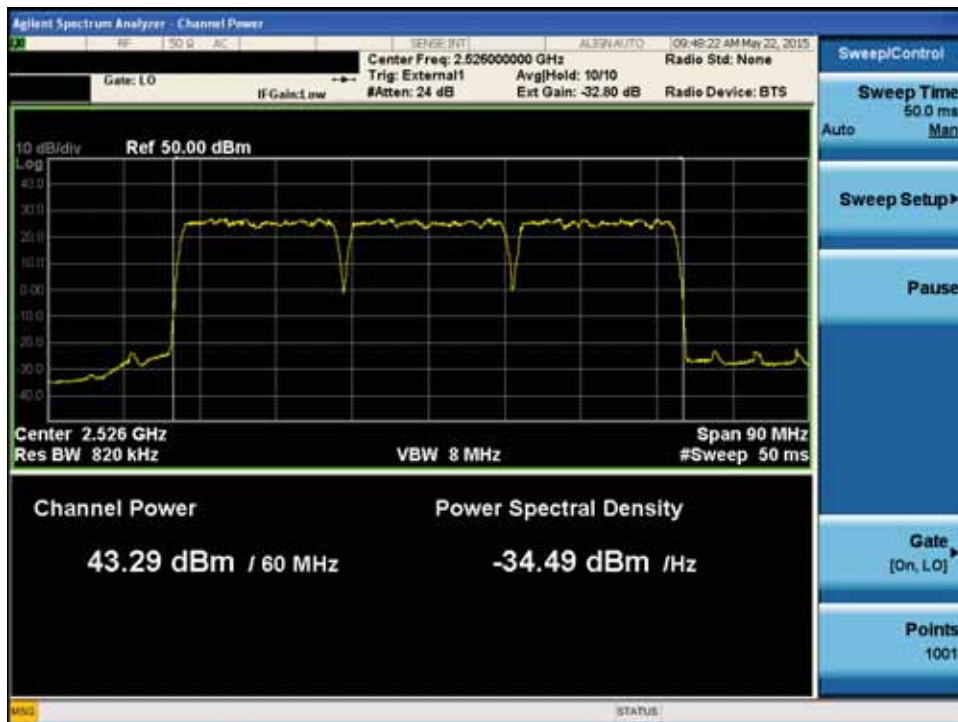
(QPSK Middle Channel)



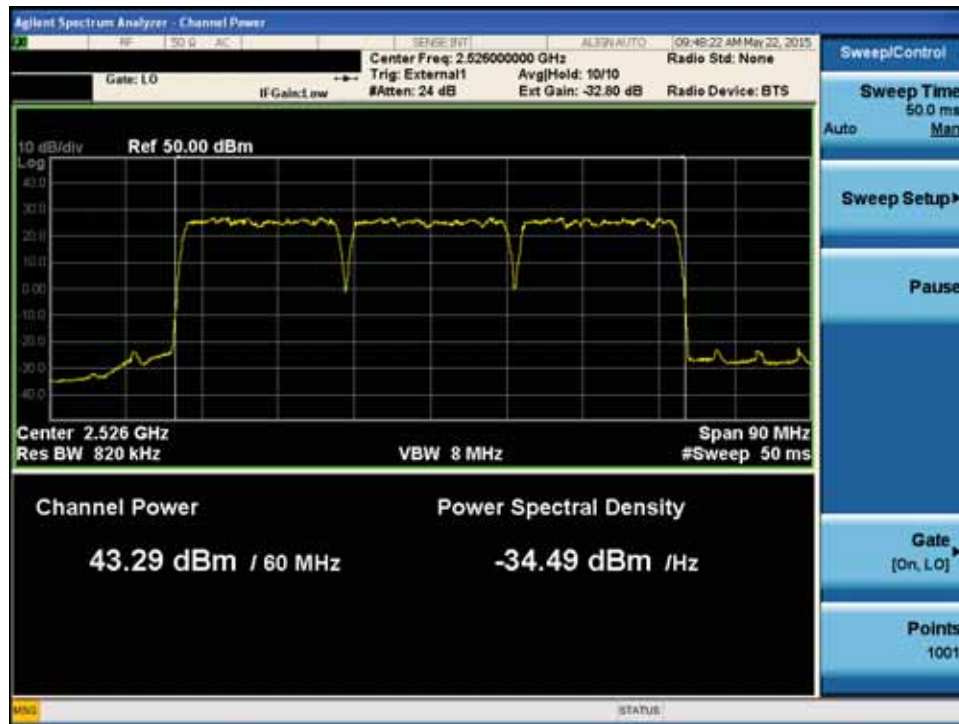
(QPSK High Channel)



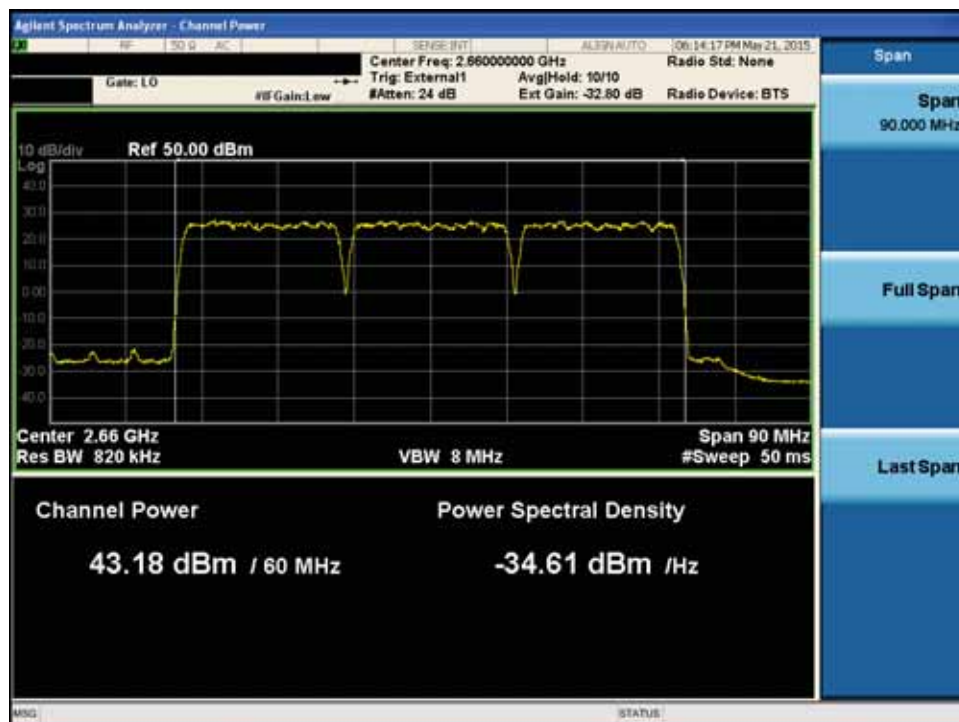
(16QAM Low Channel)



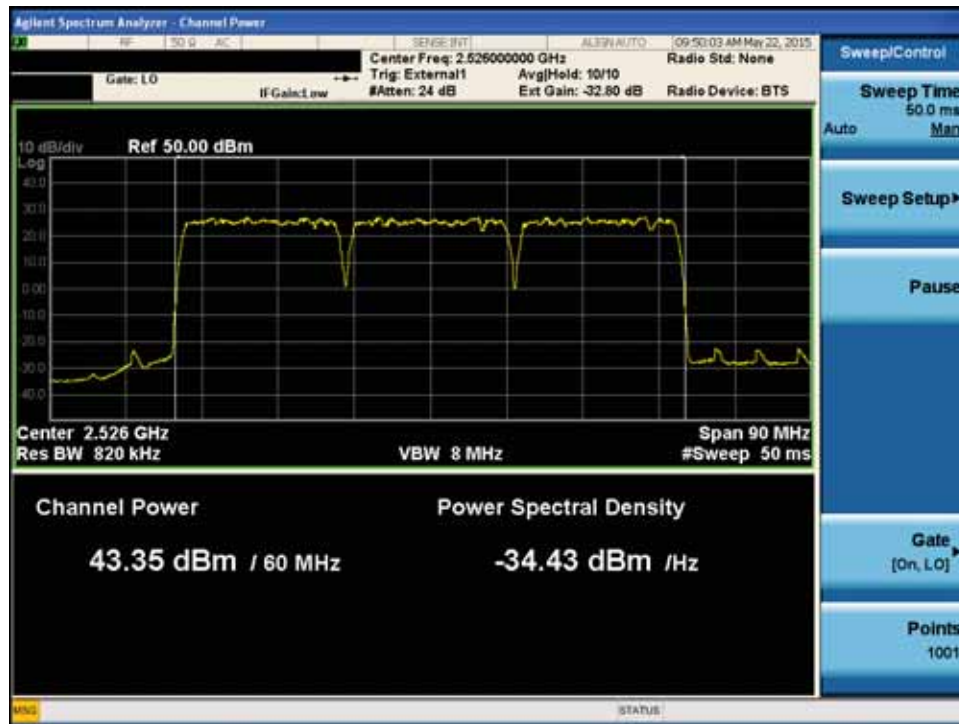
(16QAM Middle Channel)



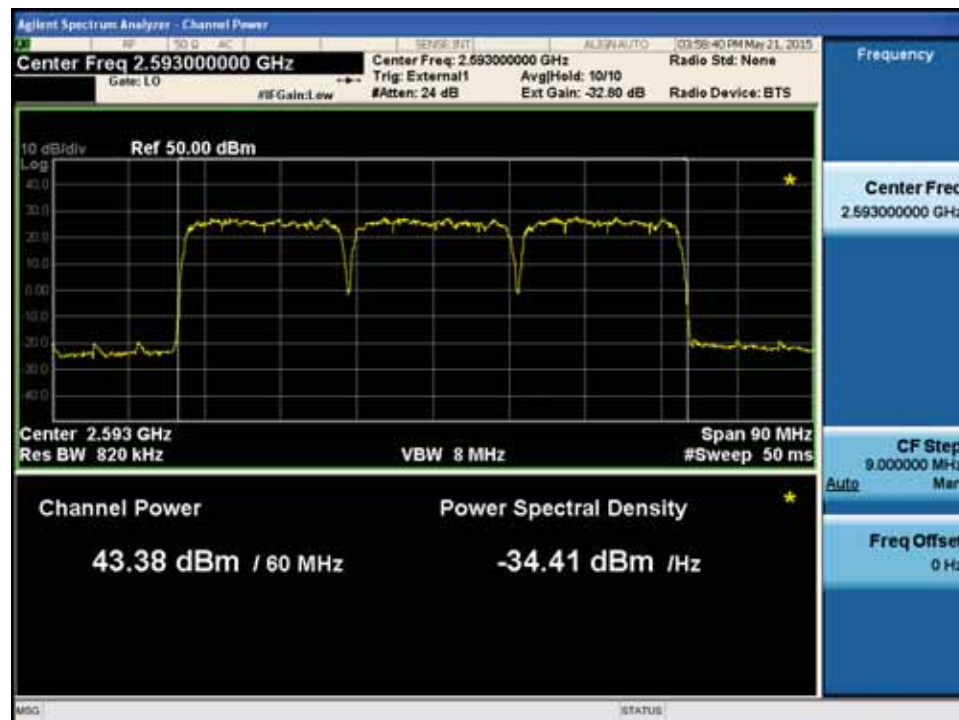
(16QAM High Channel)



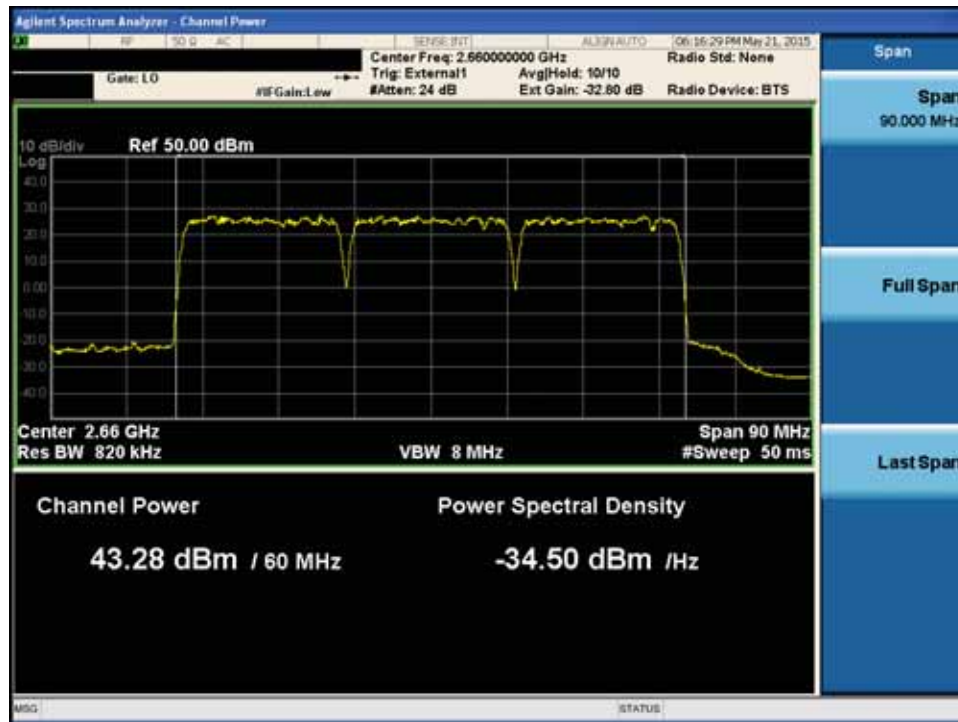
(64QAM Low Channel)



(64QAM Middle Channel)

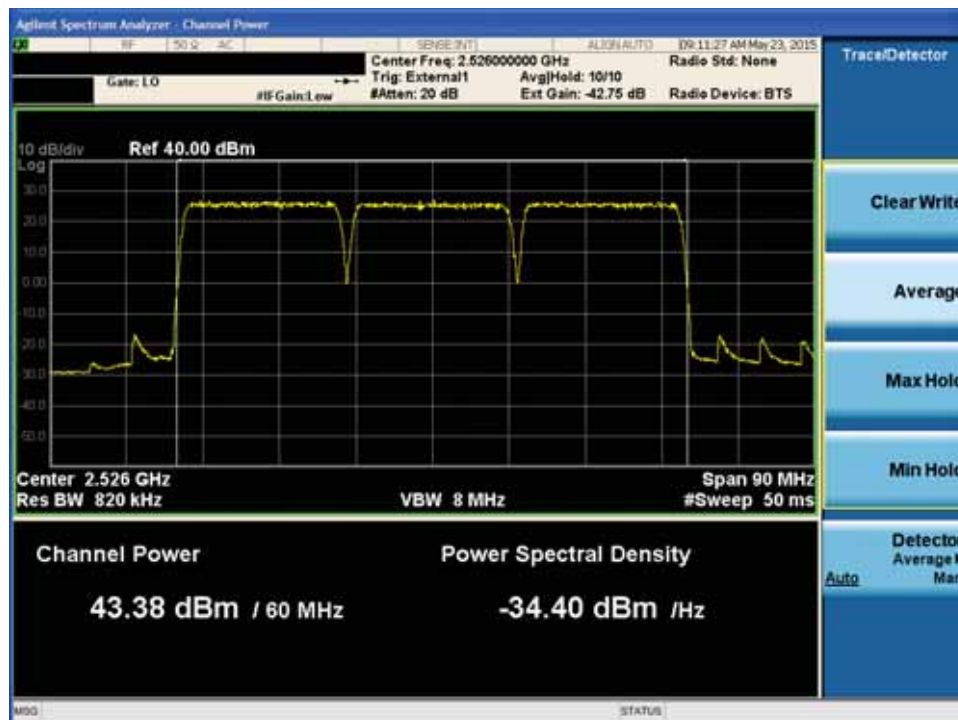


(64QAM High Channel)



5.7.13. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)



(QPSK Middle Channel)



(QPSK High Channel)



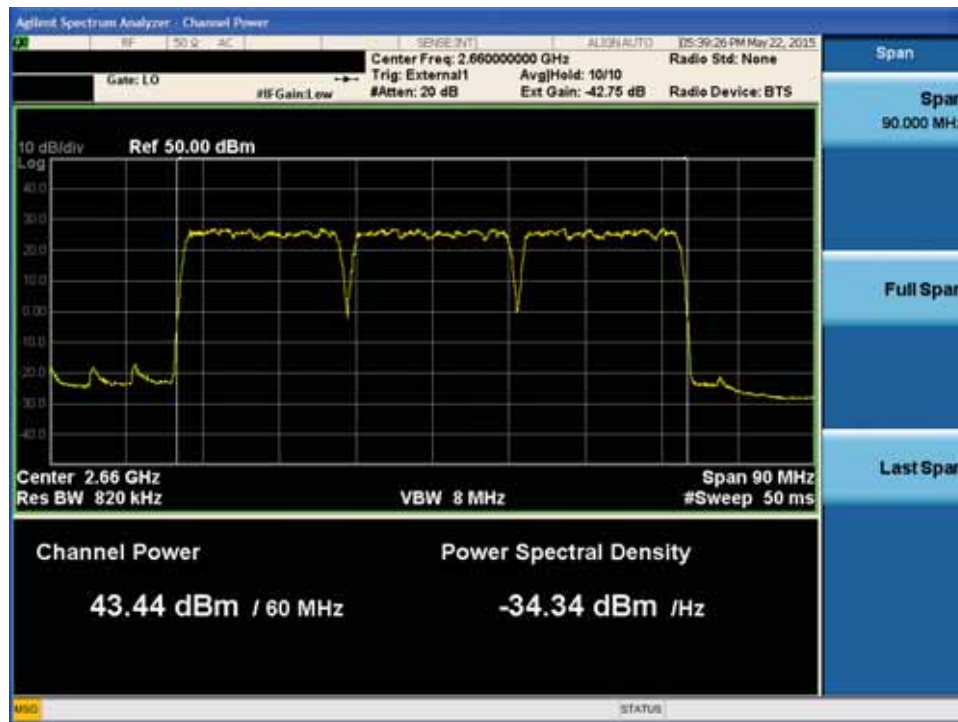
(16QAM Low Channel)



(16QAM Middle Channel)



(16QAM High Channel)



(64QAM Low Channel)



(64QAM Middle Channel)



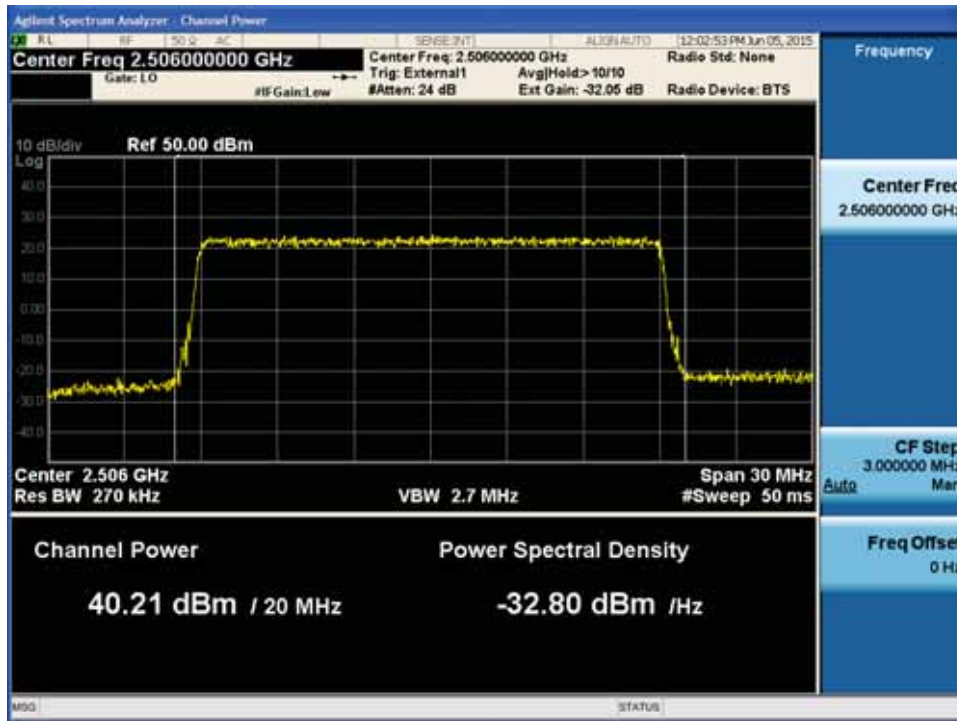
(64QAM High Channel)



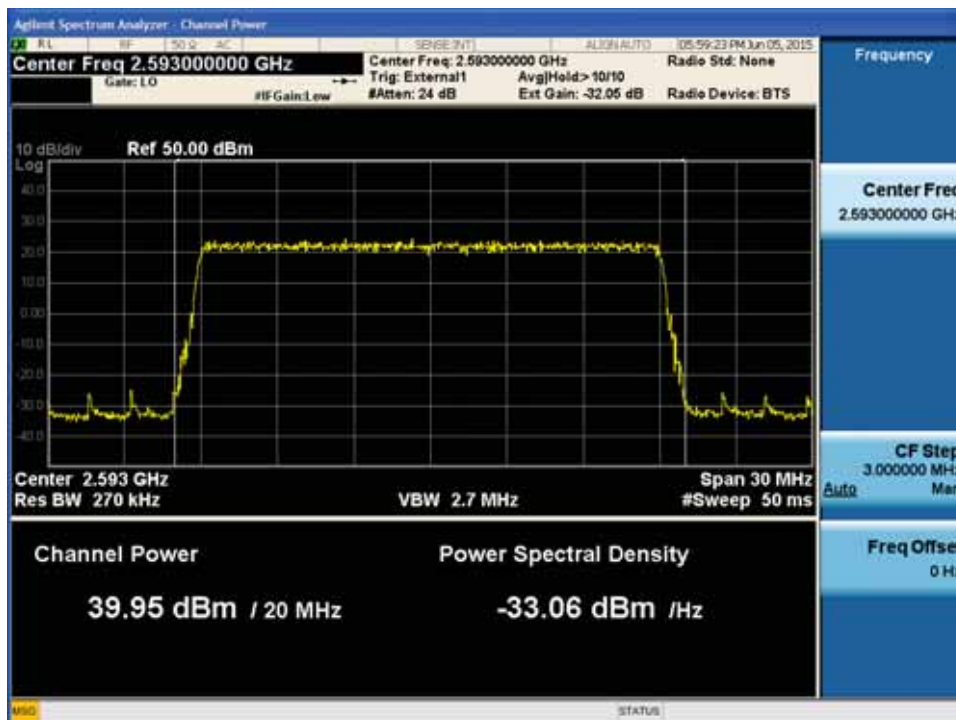
LTE20M(10W)

5.7.14. Plot Data for Output Port 1 (Conducted Output Power)

(QPSK Low Channel)



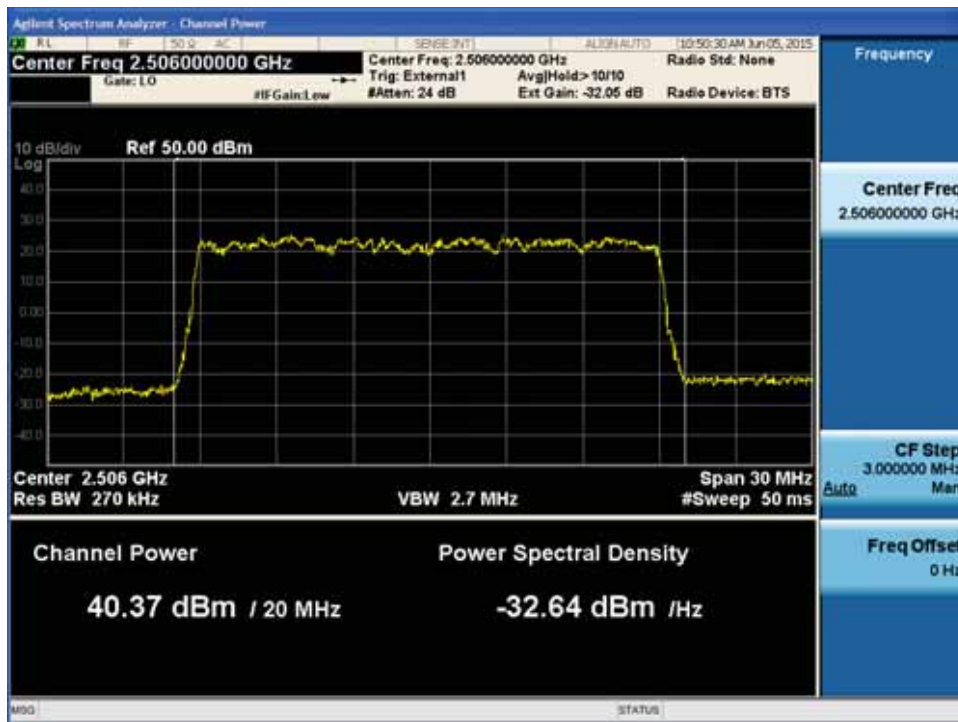
(QPSK Middle Channel)



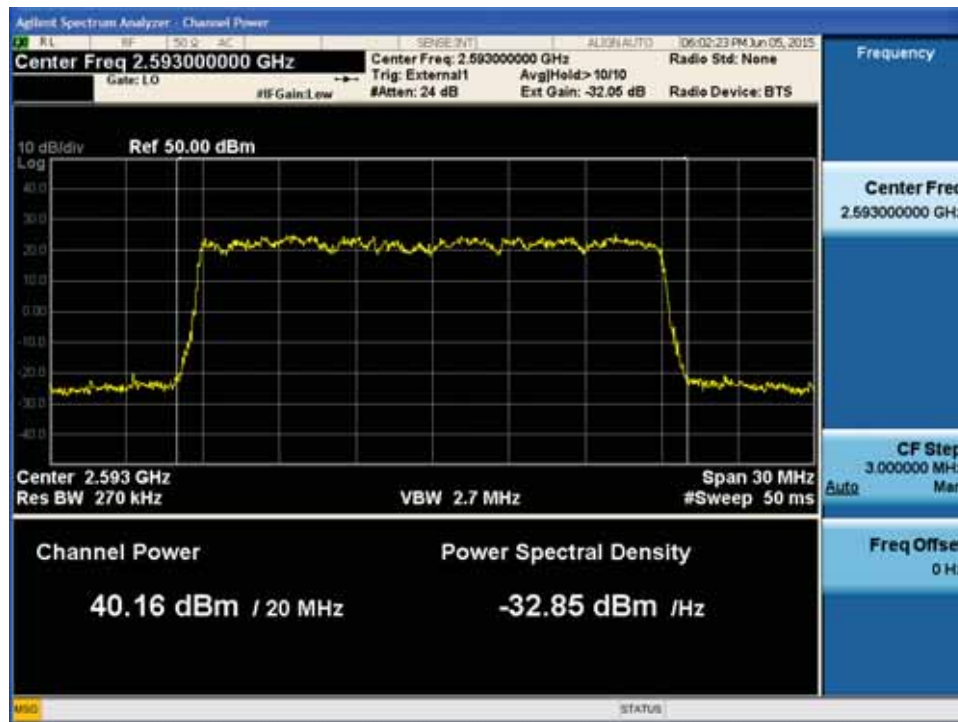
(QPSK High Channel)



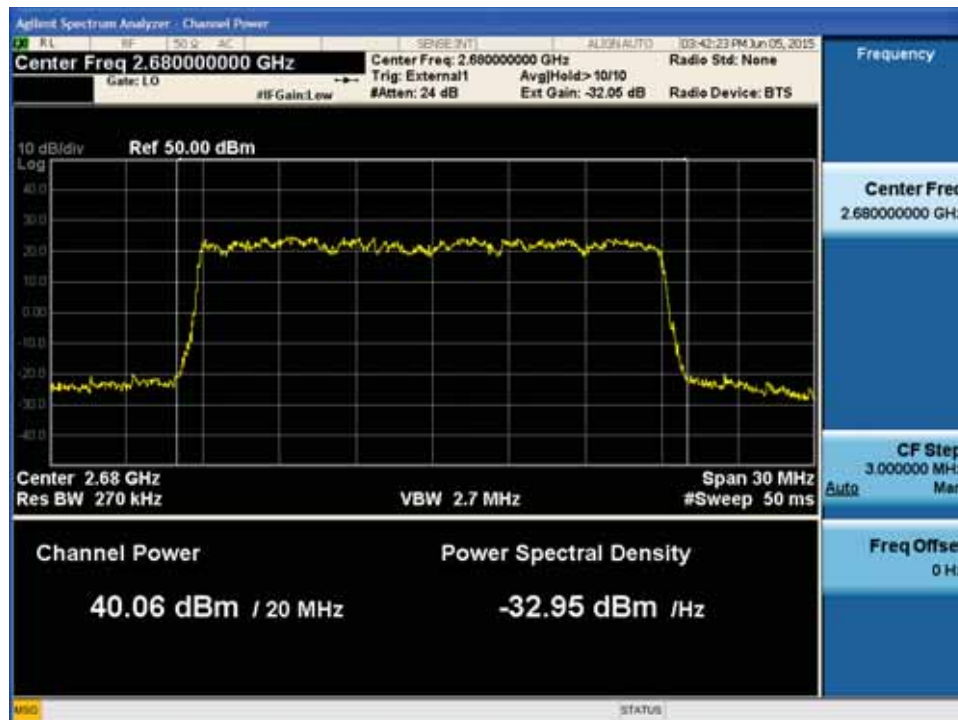
(16QAM Low Channel)



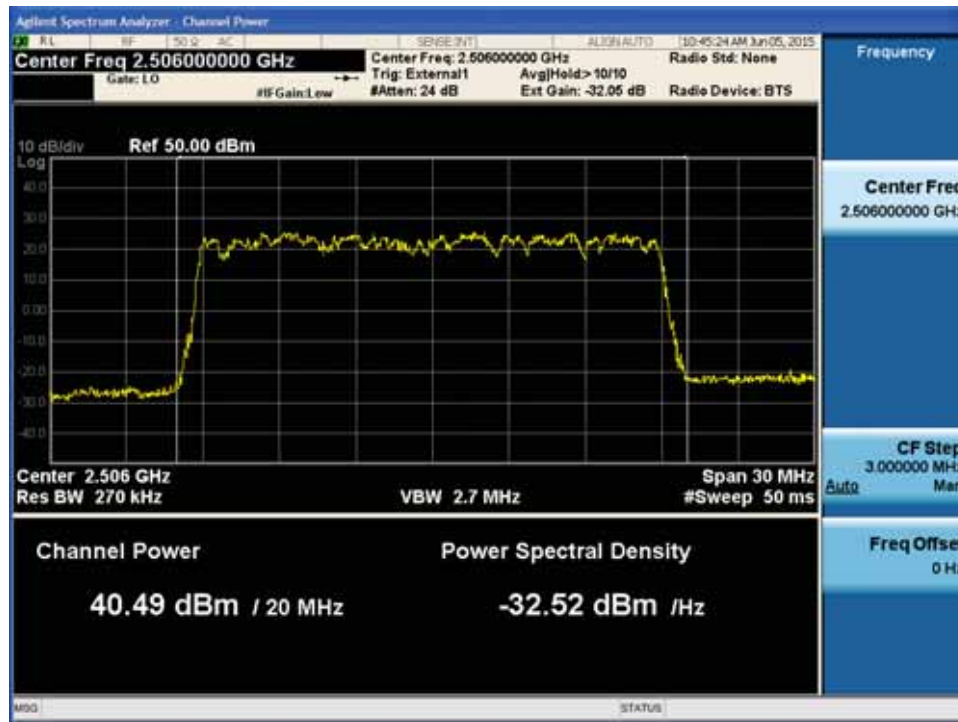
(16QAM Middle Channel)



(16QAM High Channel)



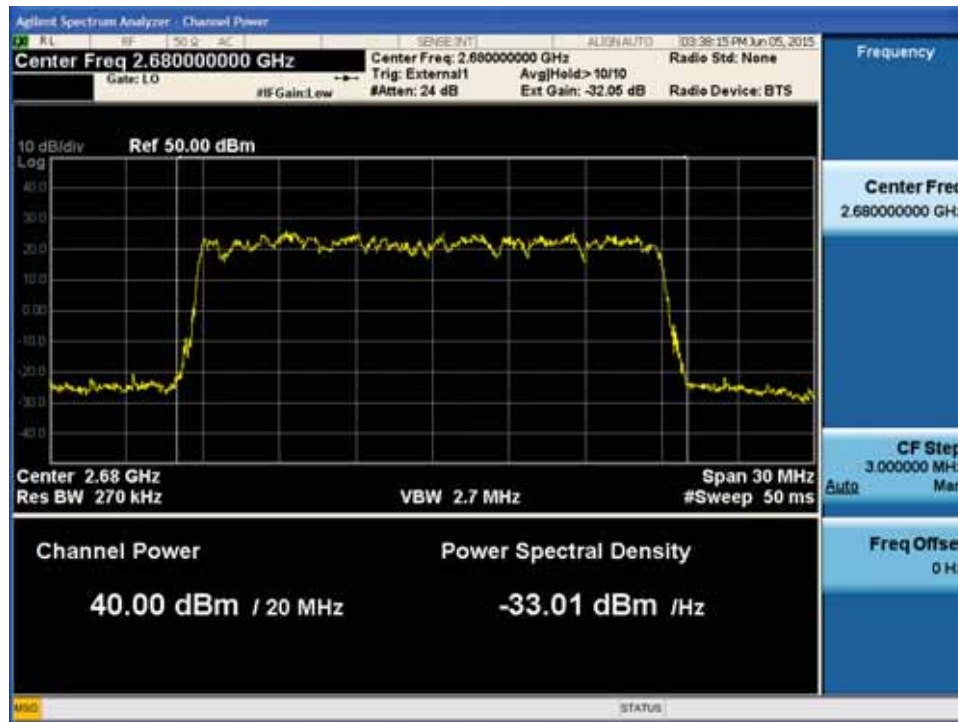
(64QAM Low Channel)



(64QAM Middle Channel)

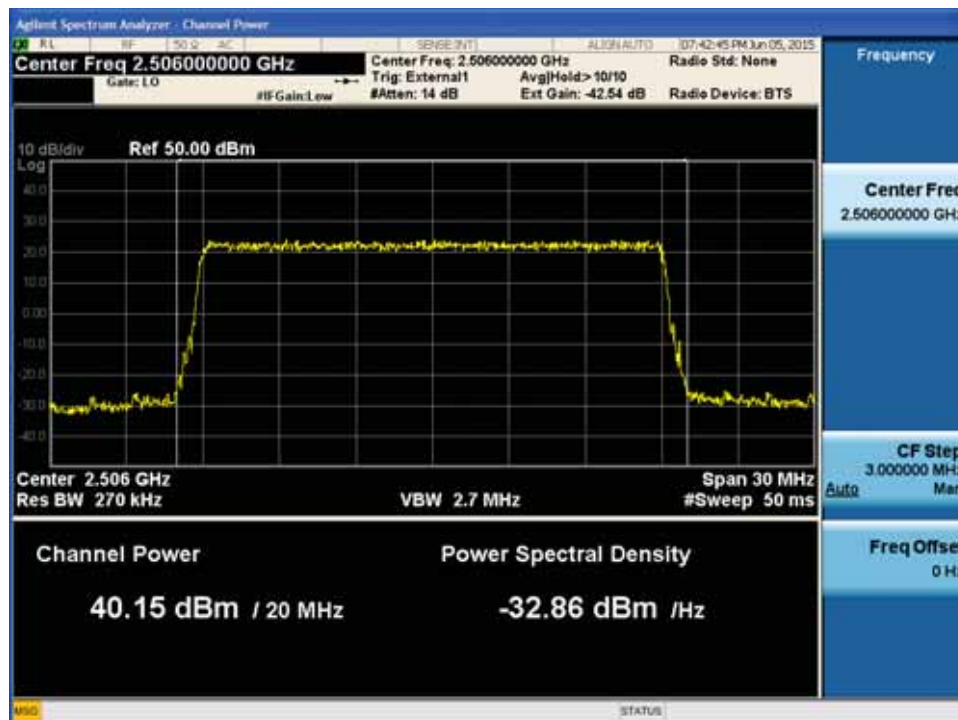


(64QAM High Channel)

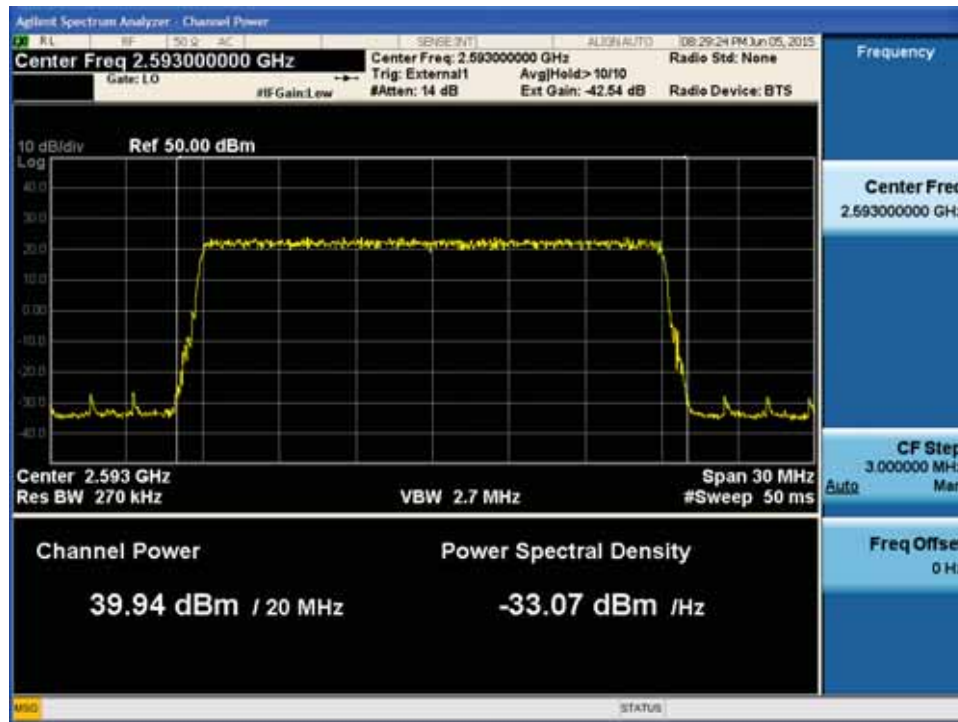


5.7.15. Plot Data for Output Port 2 (Conducted Output Power)

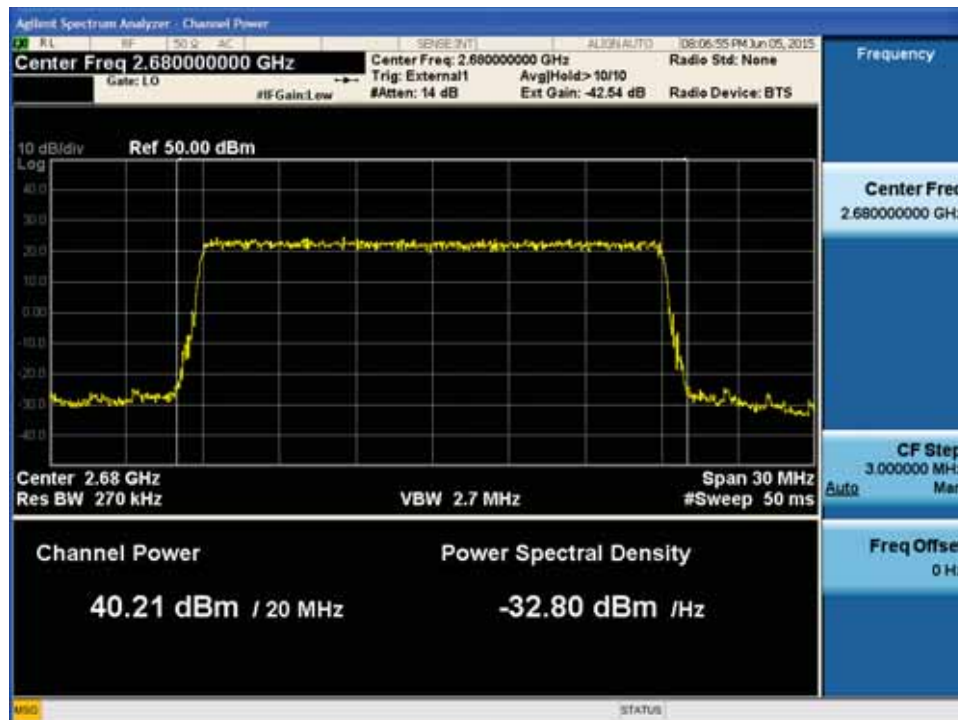
(QPSK Low Channel)



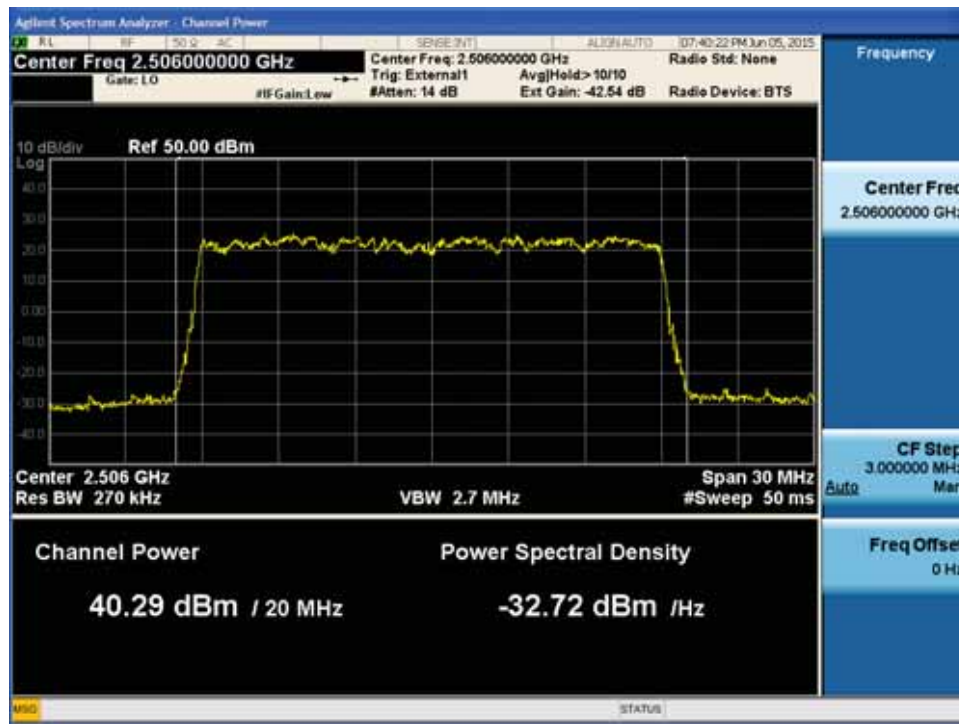
(QPSK Middle Channel)



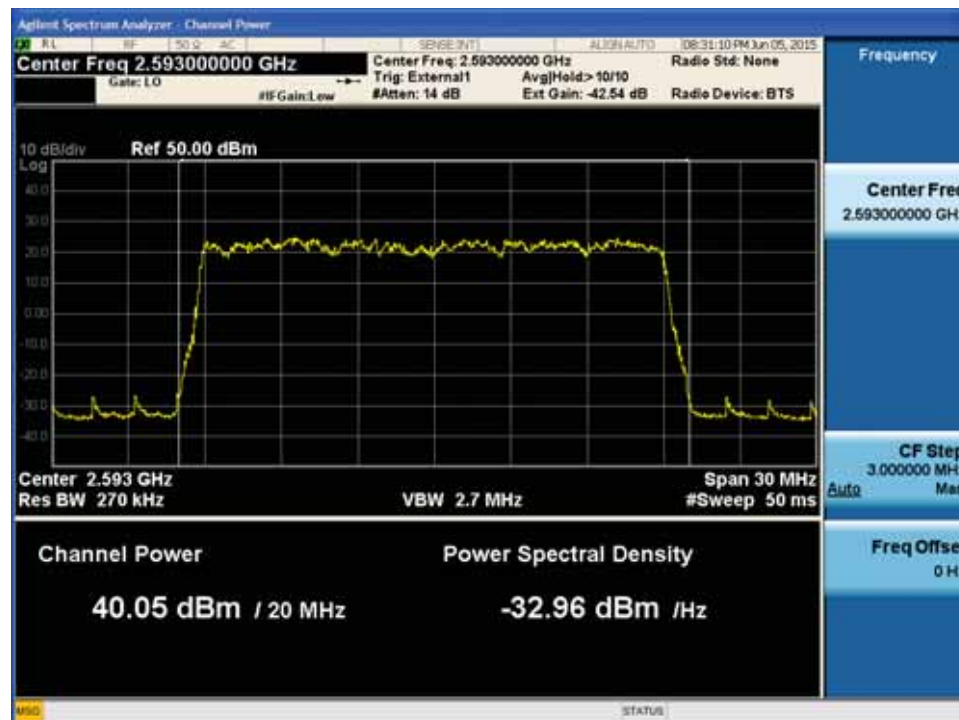
(QPSK High Channel)



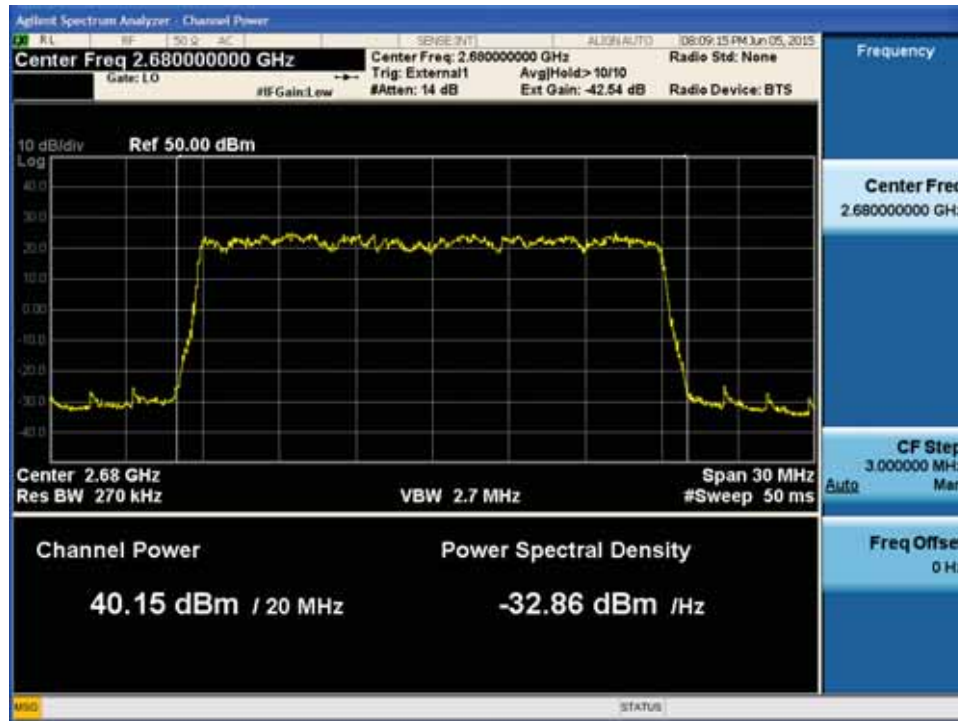
(16QAM Low Channel)



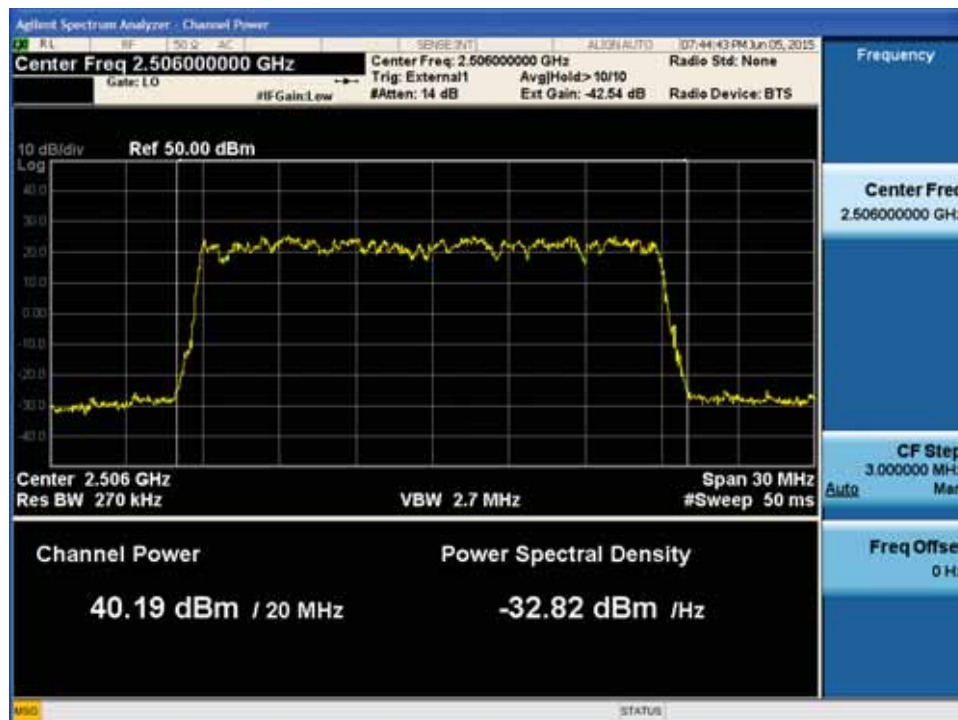
(16QAM Middle Channel)



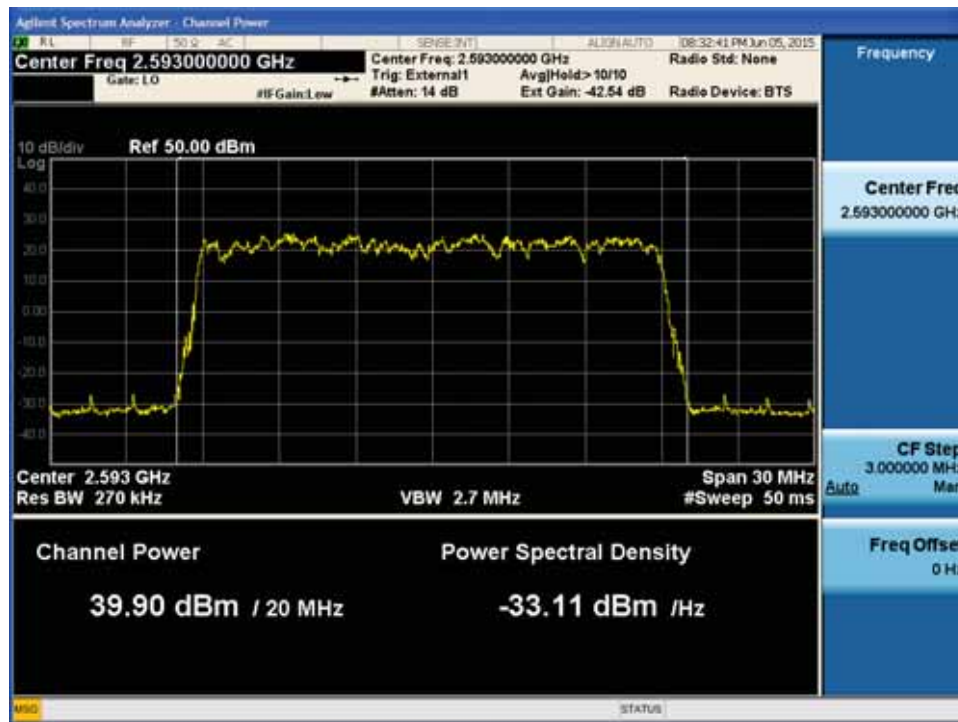
(16QAM High Channel)



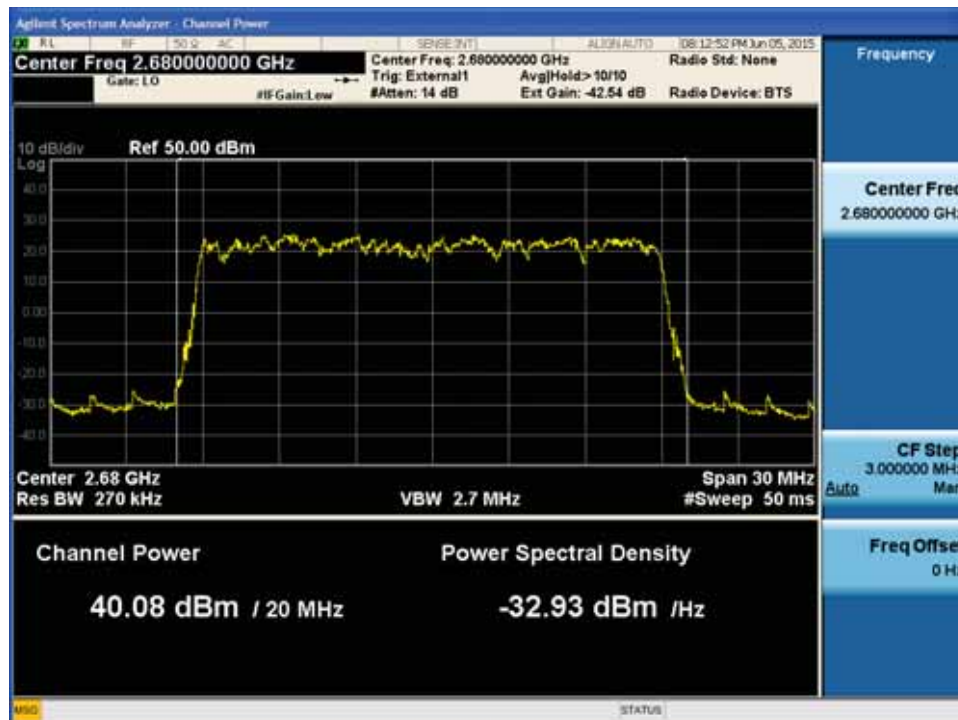
(64QAM Low Channel)



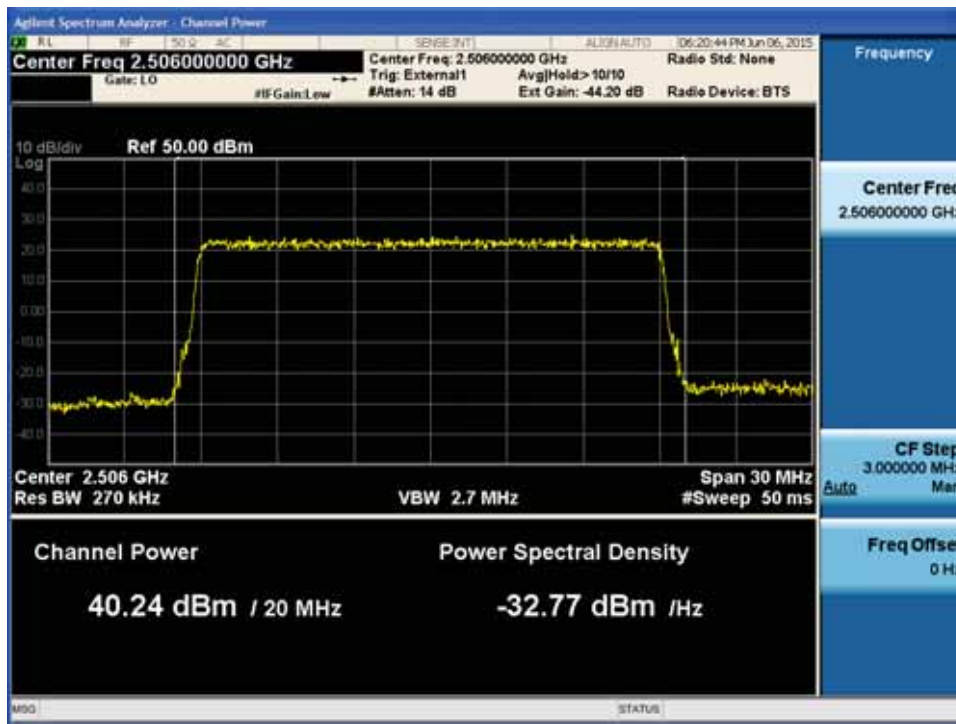
(64QAM Middle Channel)



(64QAM High Channel)



5.7.16. Plot Data for Output Port 3 (Conducted Output Power)
(QPSK Low Channel)



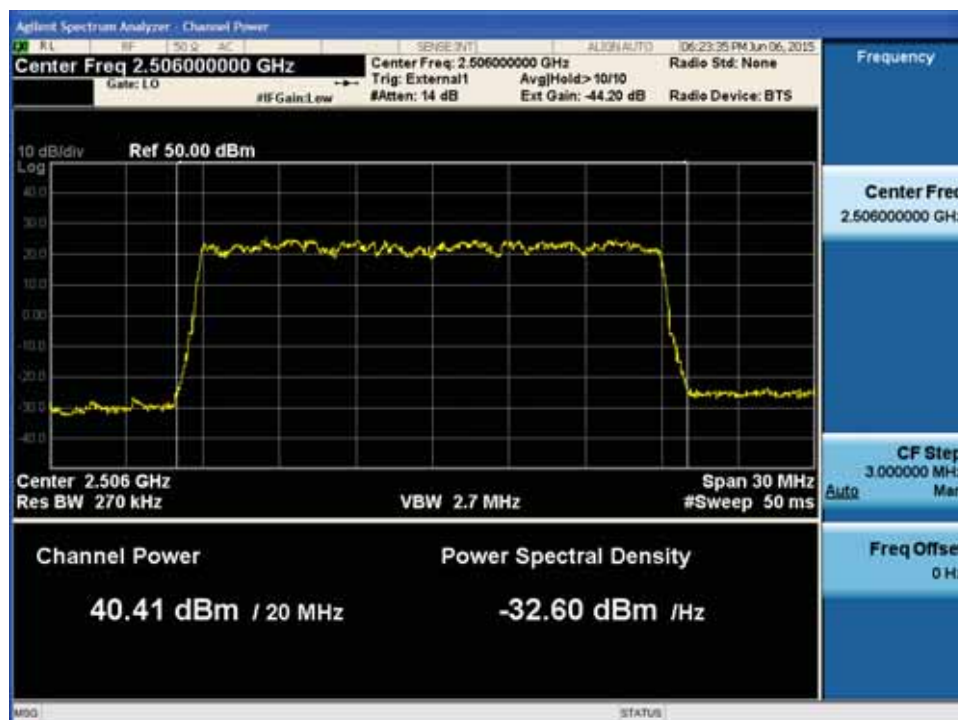
(QPSK Middle Channel)



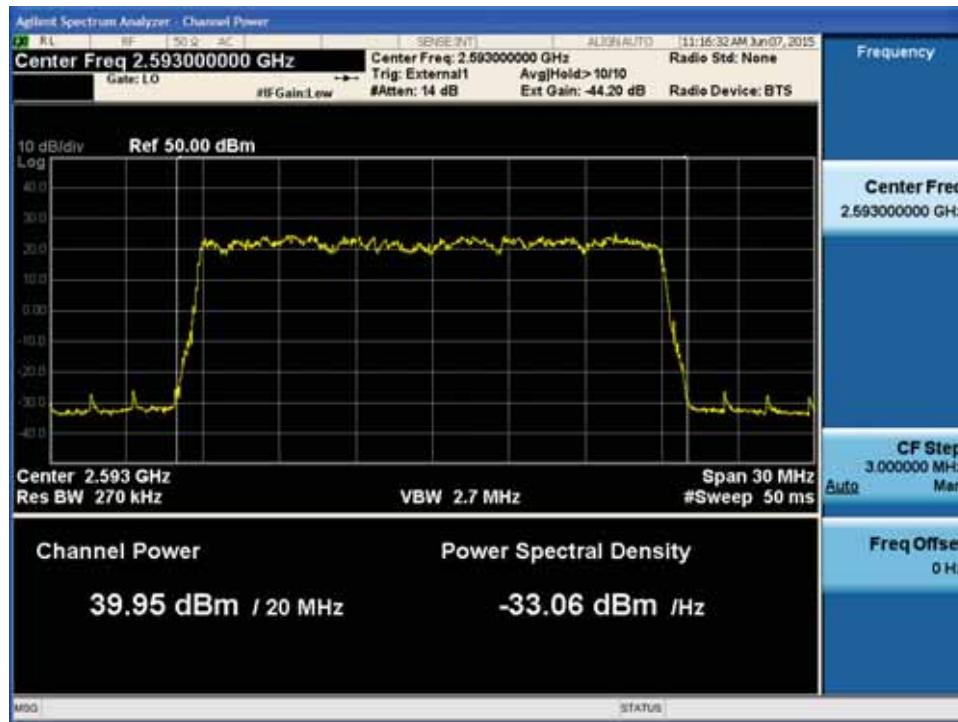
(QPSK High Channel)



(16QAM Low Channel)



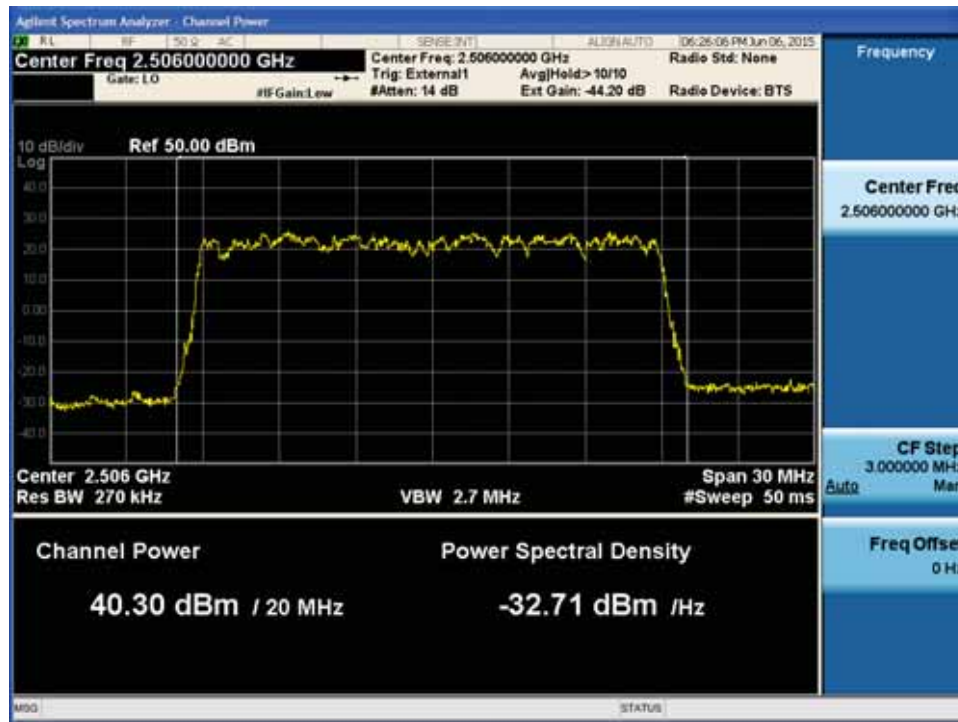
(16QAM Middle Channel)



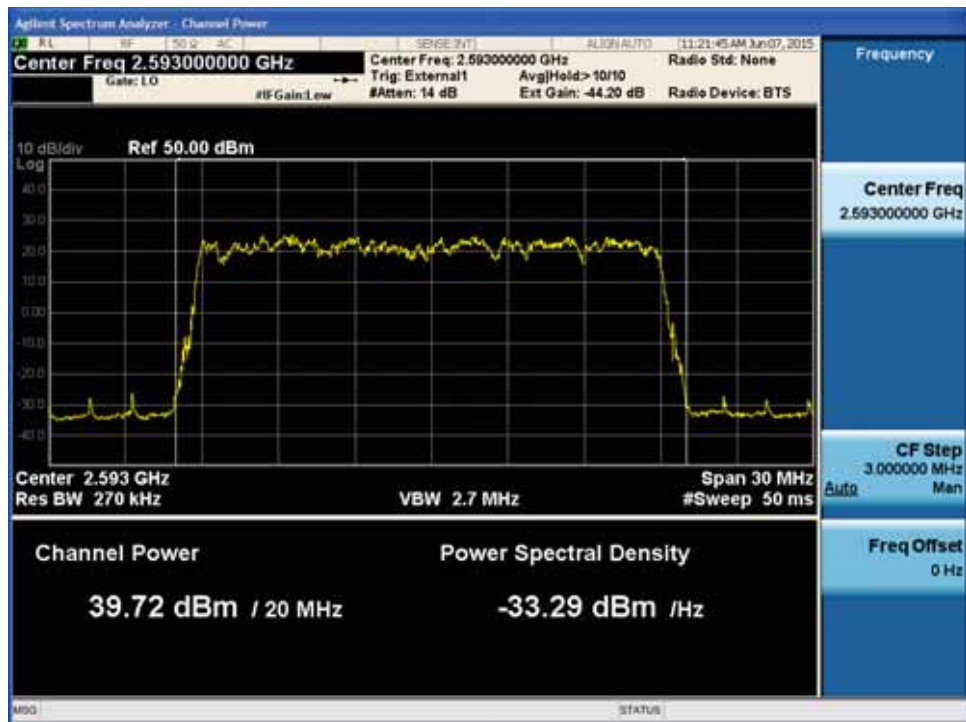
(16QAM High Channel)



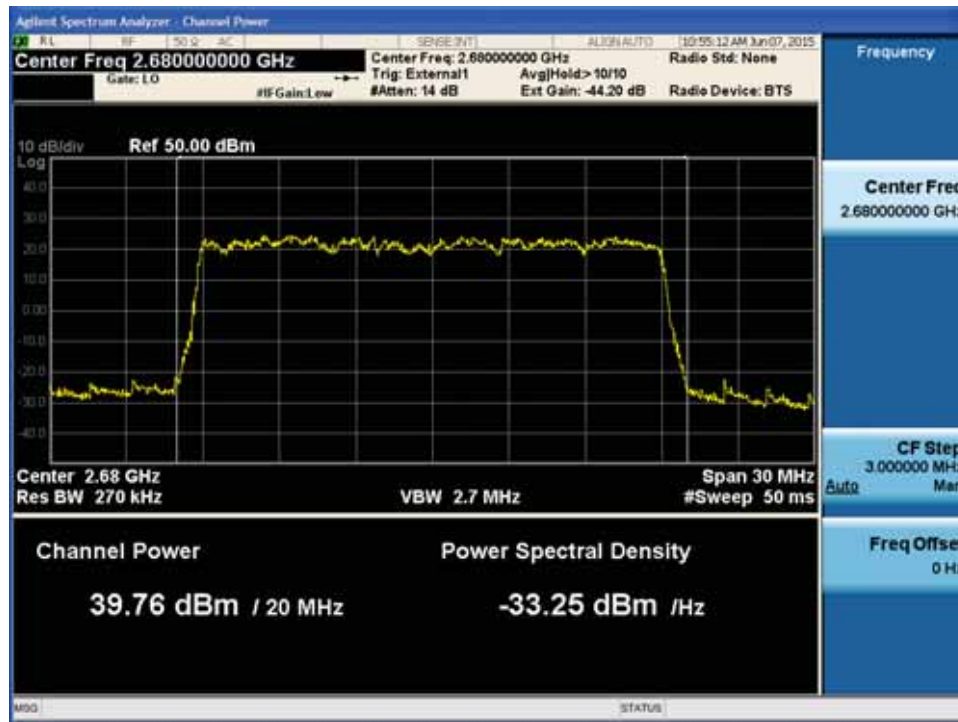
(64QAM Low Channel)



(64QAM Middle Channel)

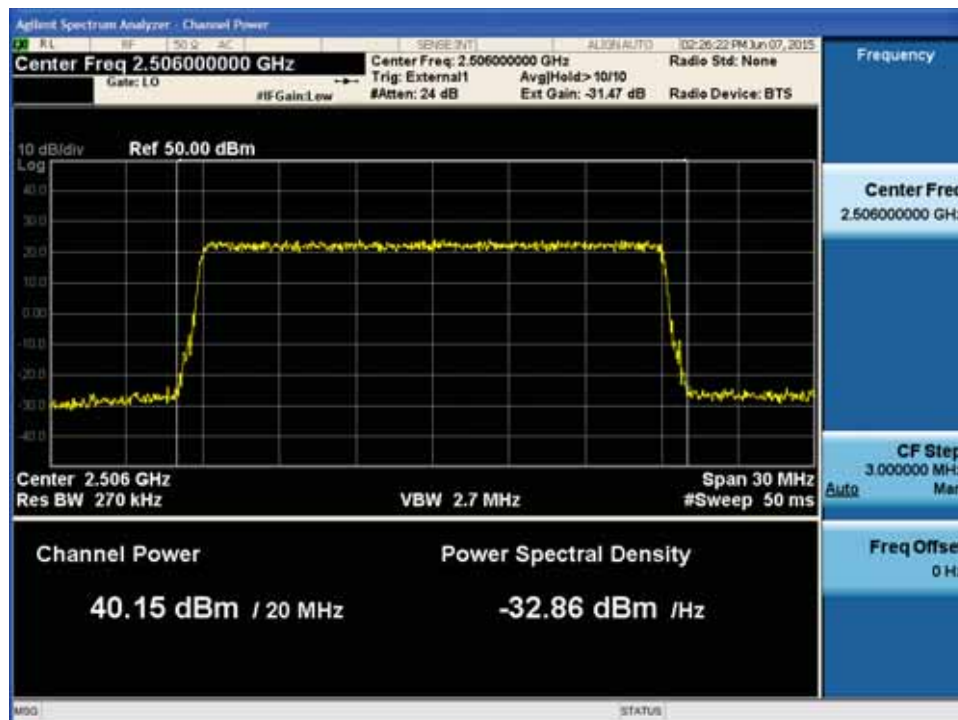


(64QAM High Channel)

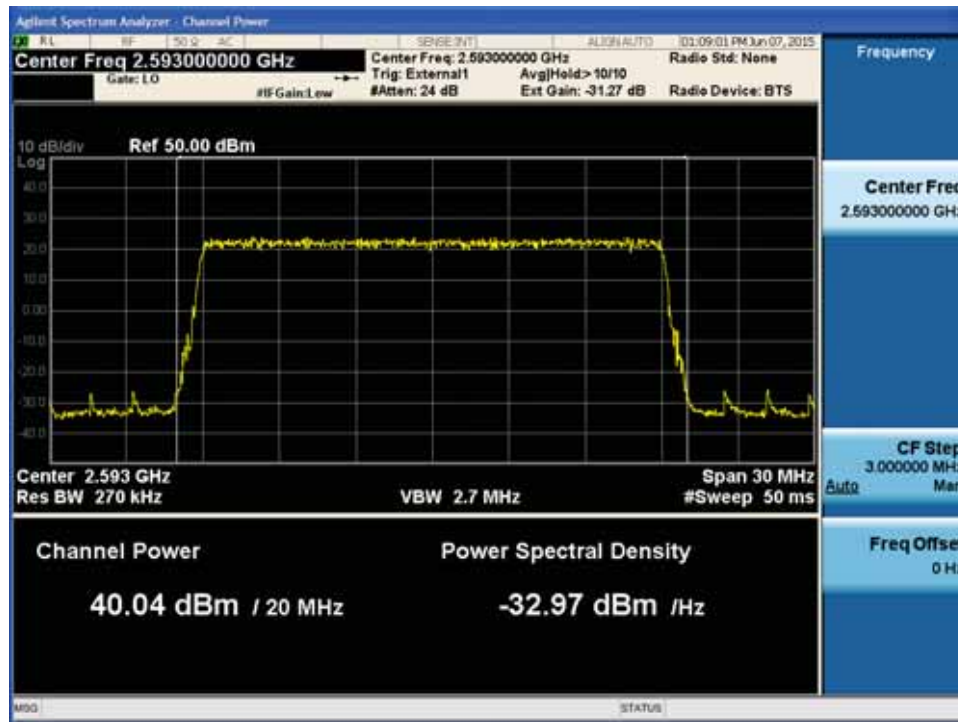


5.7.17. Plot Data for Output Port 4 (Conducted Output Power)

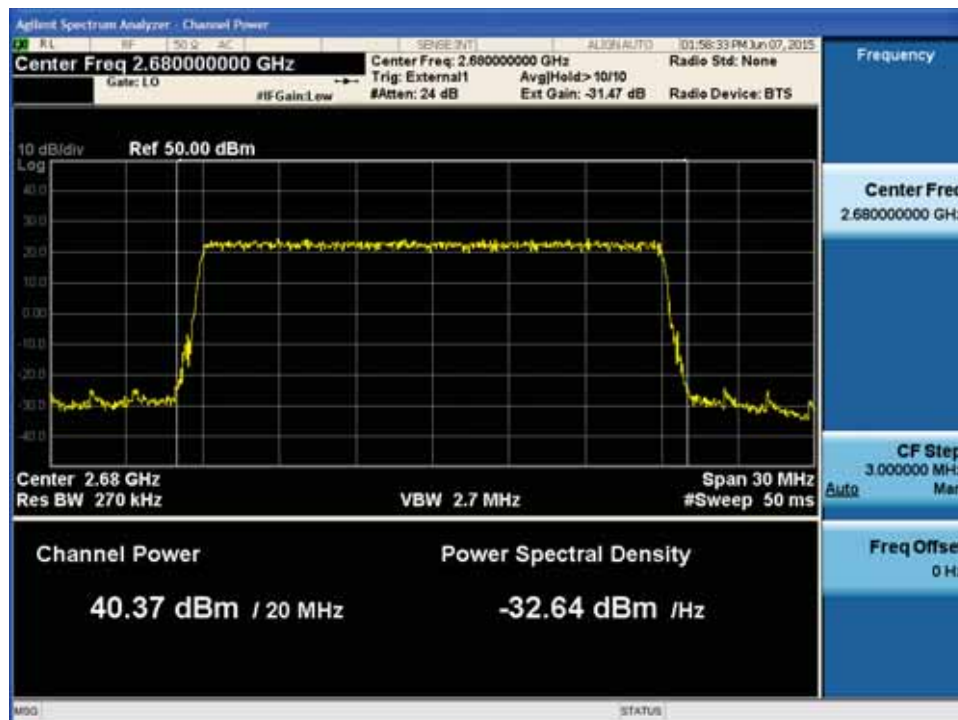
(QPSK Low Channel)



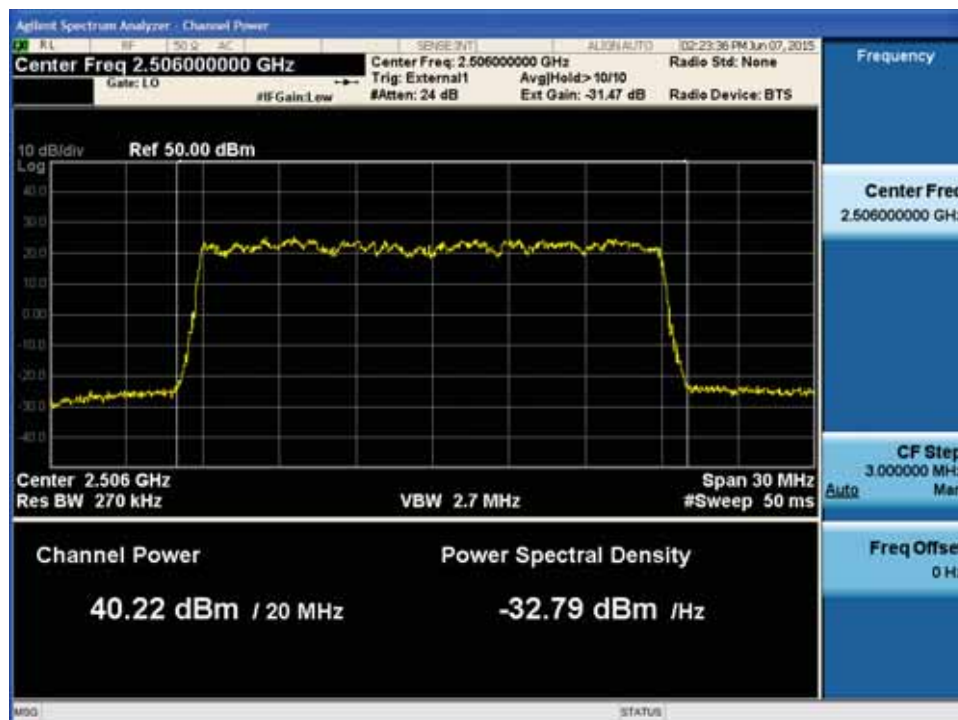
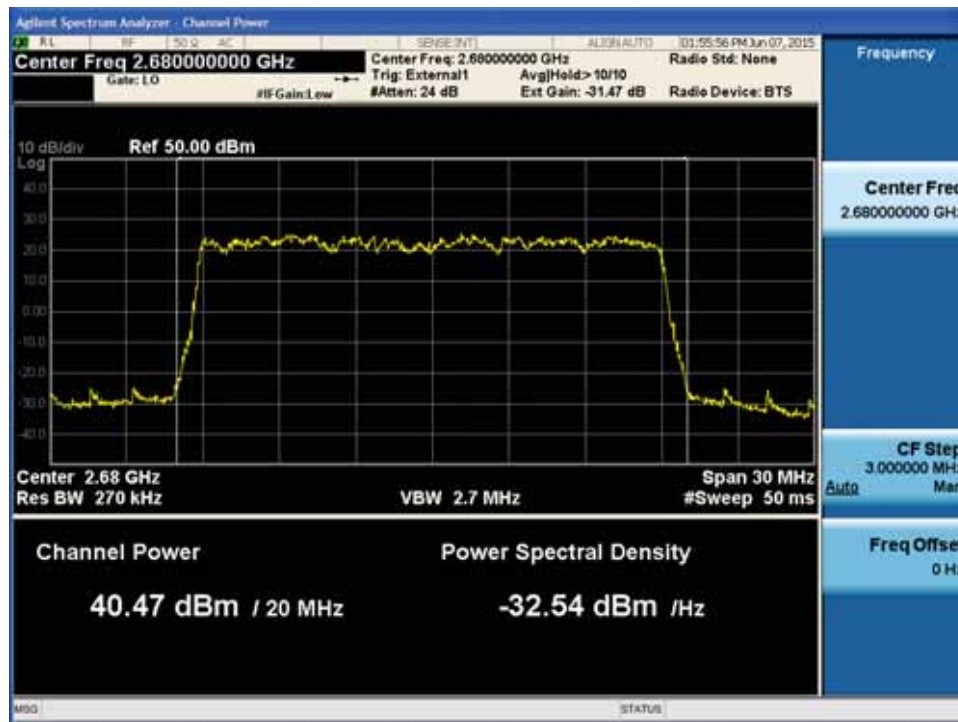
(QPSK Middle Channel)



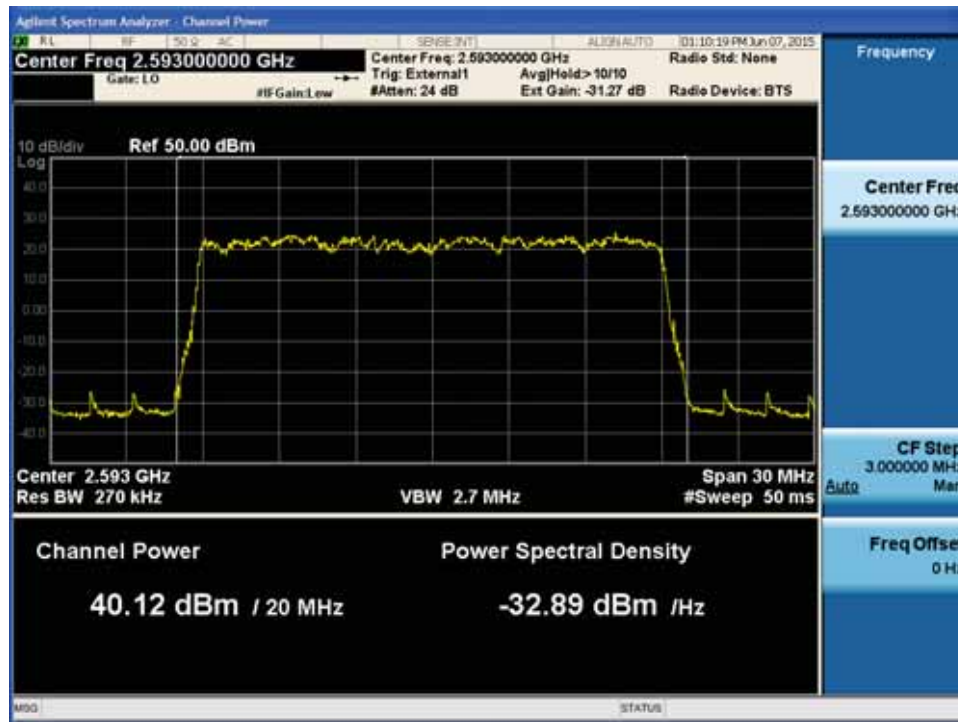
(QPSK High Channel)



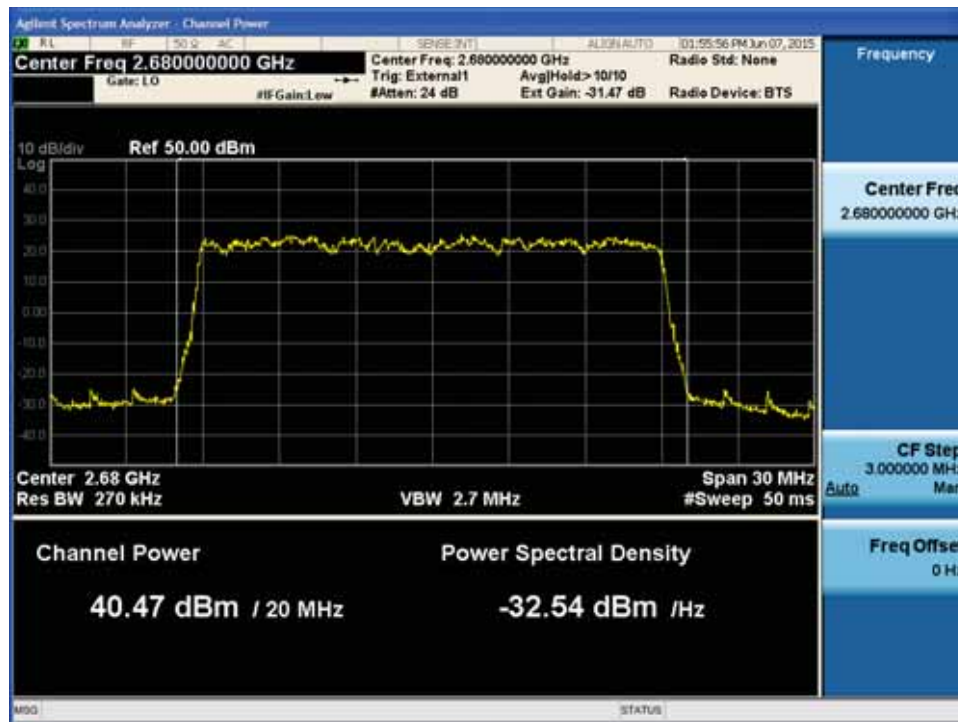
(16QAM Low Channel)



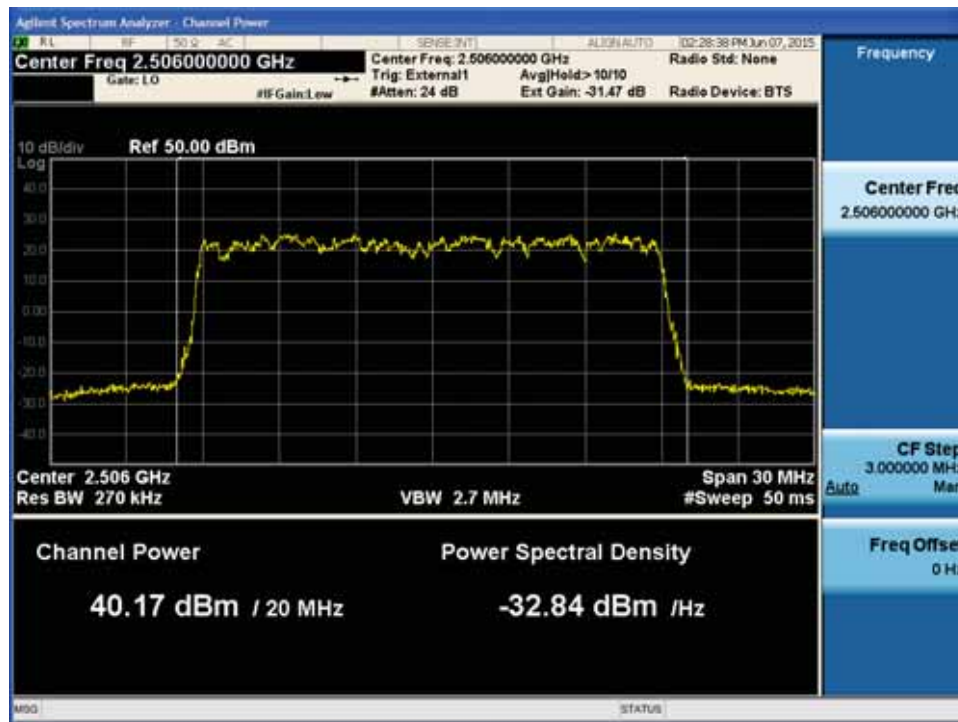
(16QAM Middle Channel)



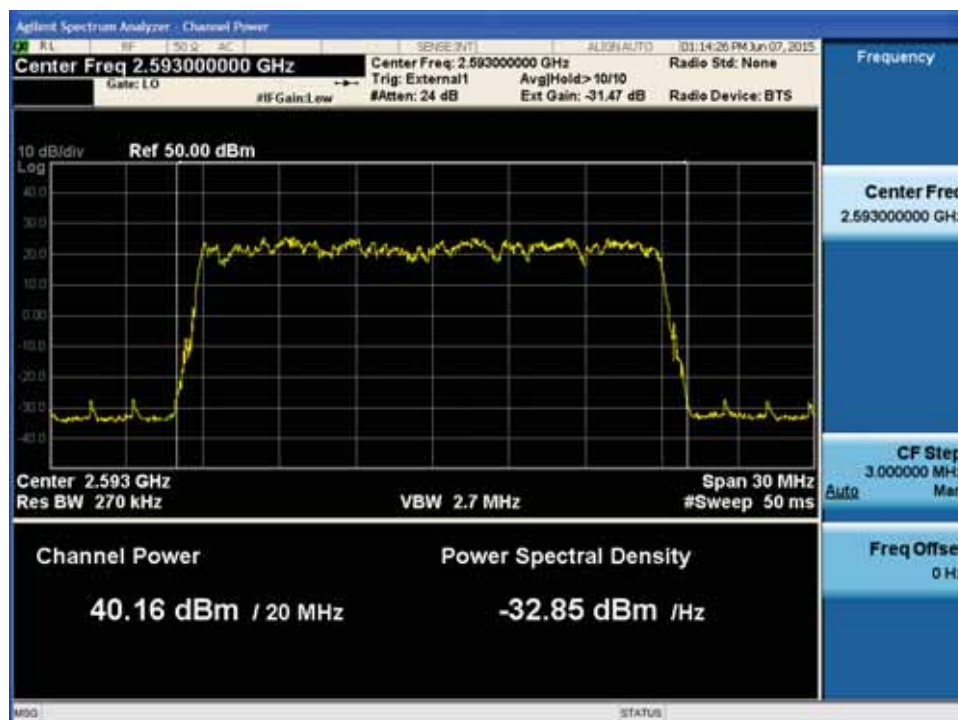
(16QAM High Channel)



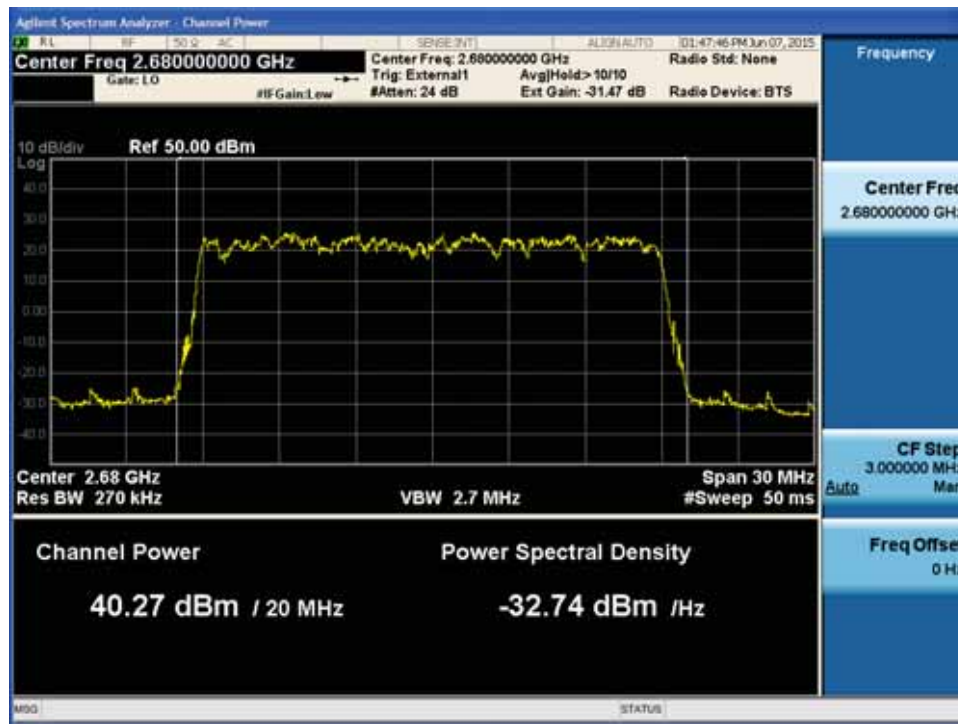
(64QAM Low Channel)



(64QAM Middle Channel)

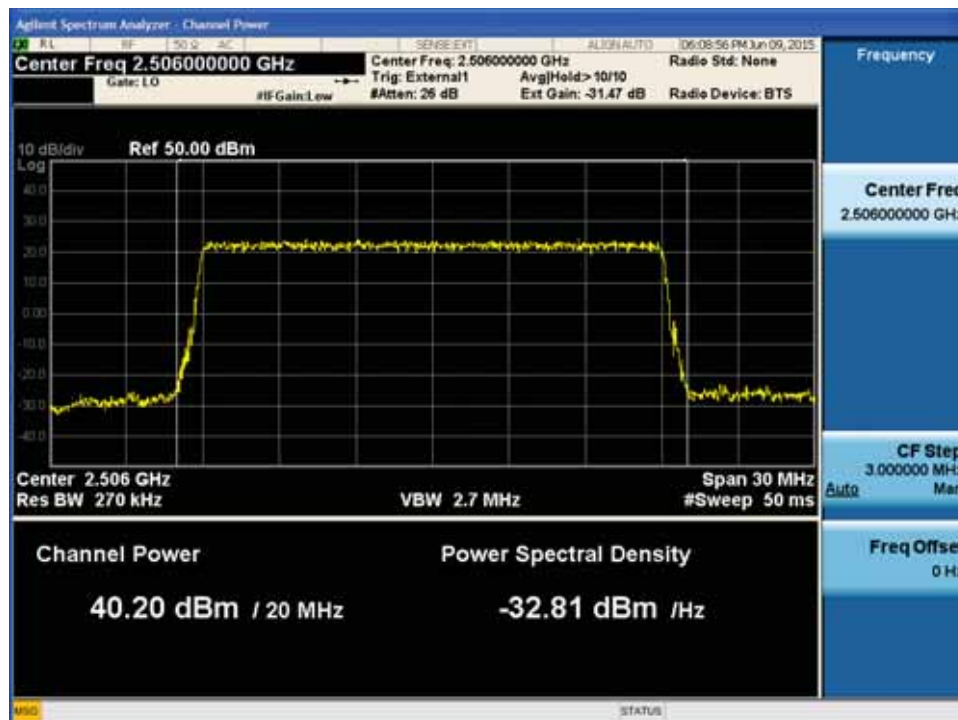


(64QAM High Channel)

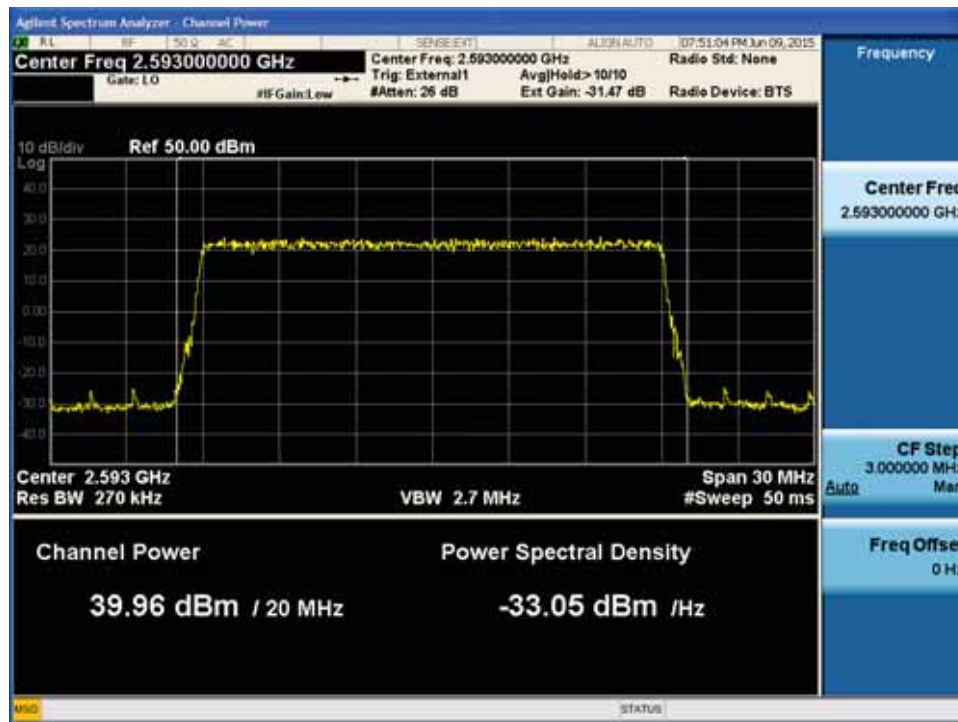


5.7.18. Plot Data for Output Port 5 (Conducted Output Power)

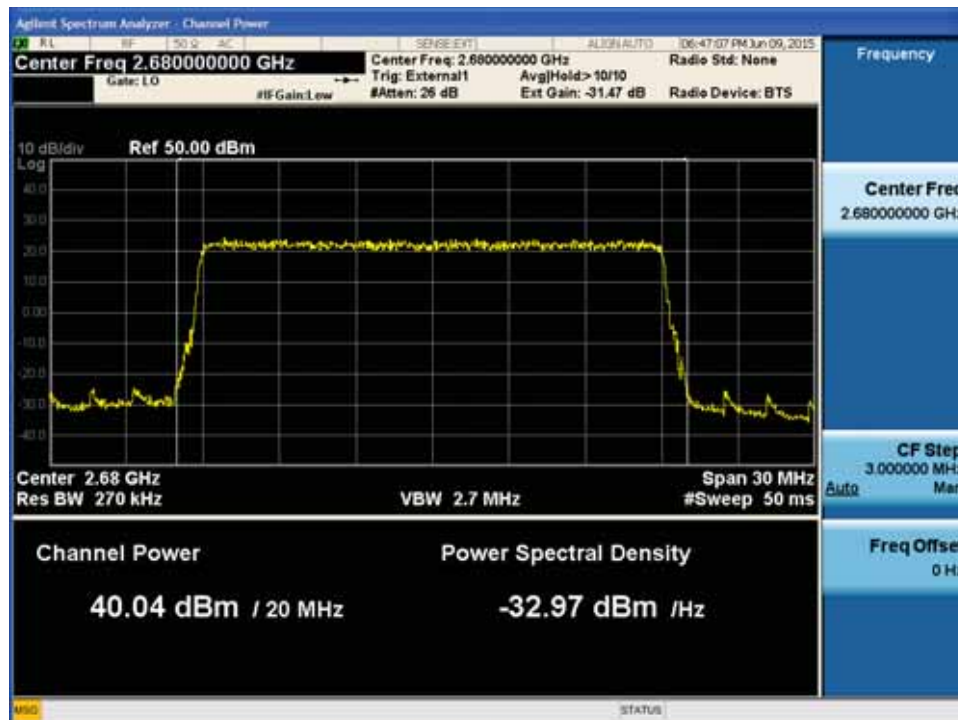
(QPSK Low Channel)



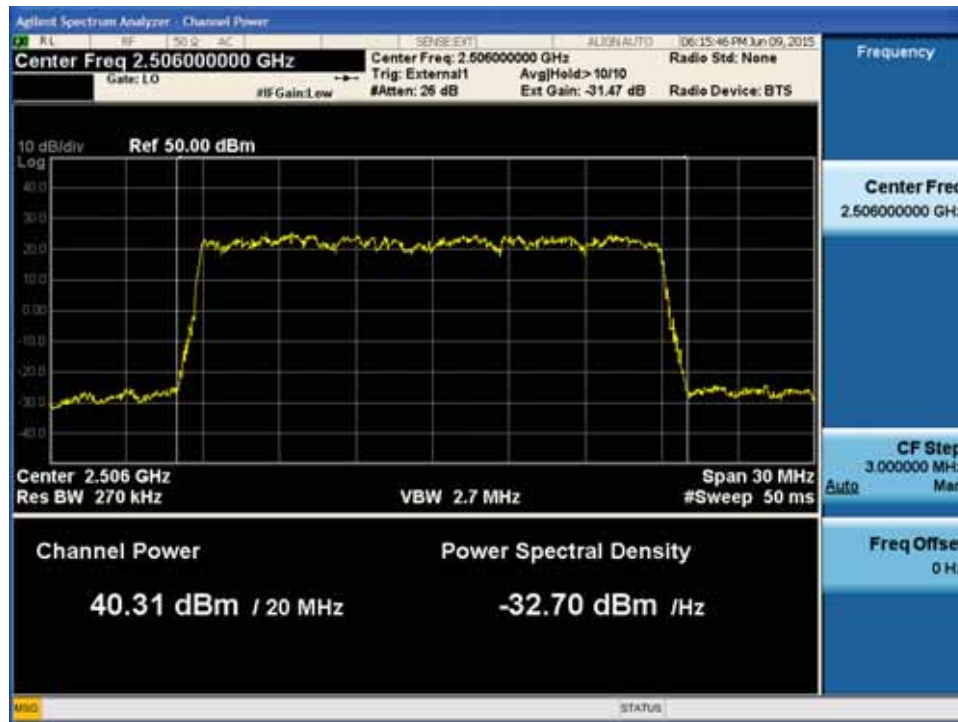
(QPSK Middle Channel)



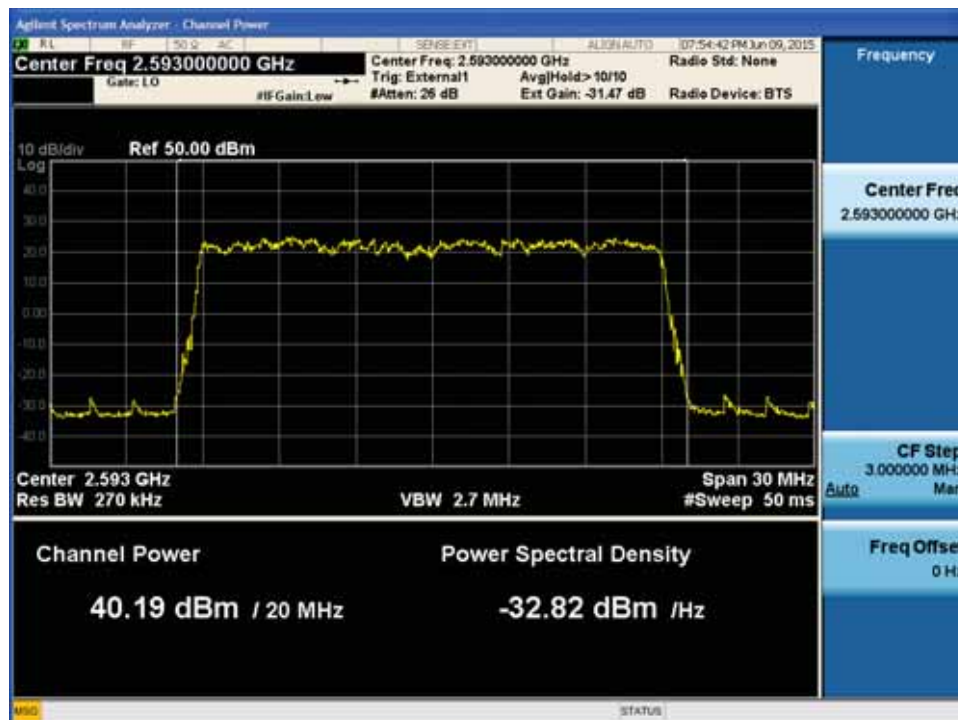
(QPSK High Channel)



(16QAM Low Channel)



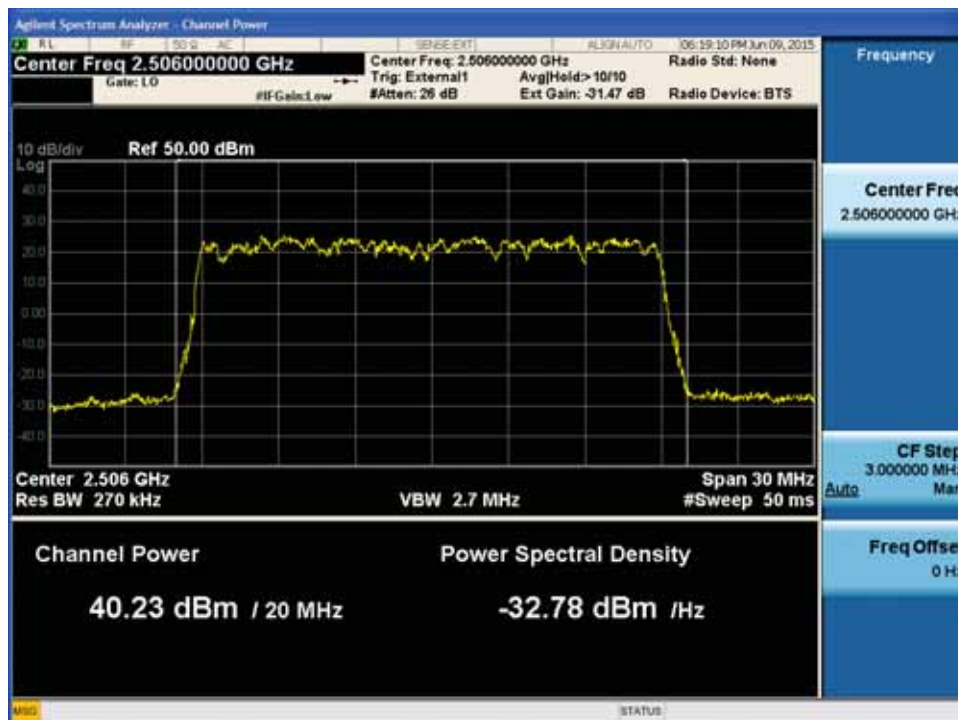
(16QAM Middle Channel)



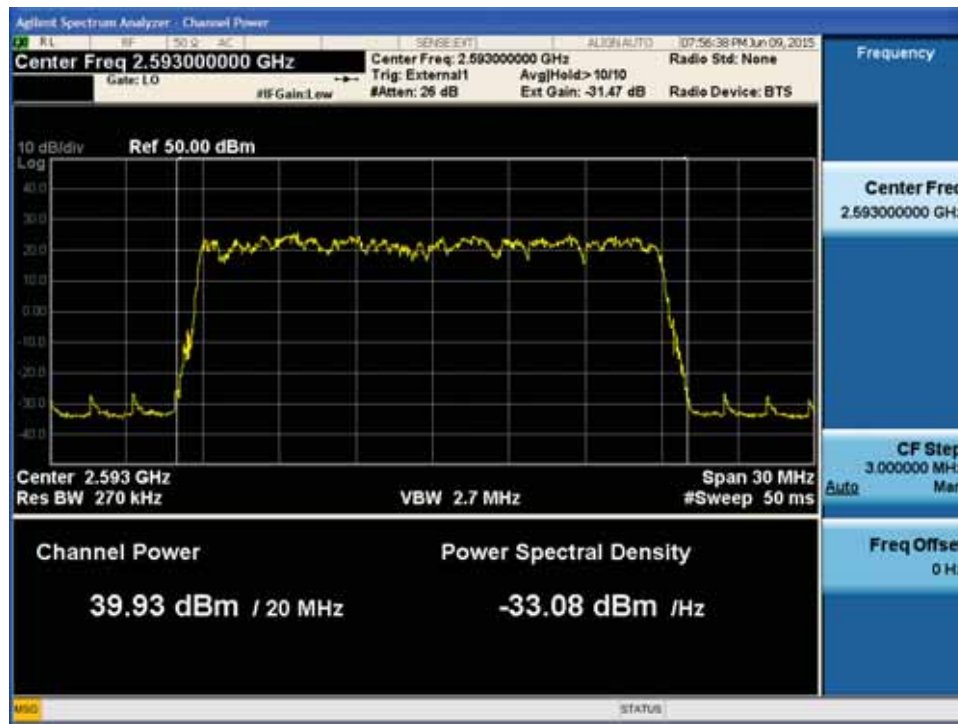
(16QAM High Channel)



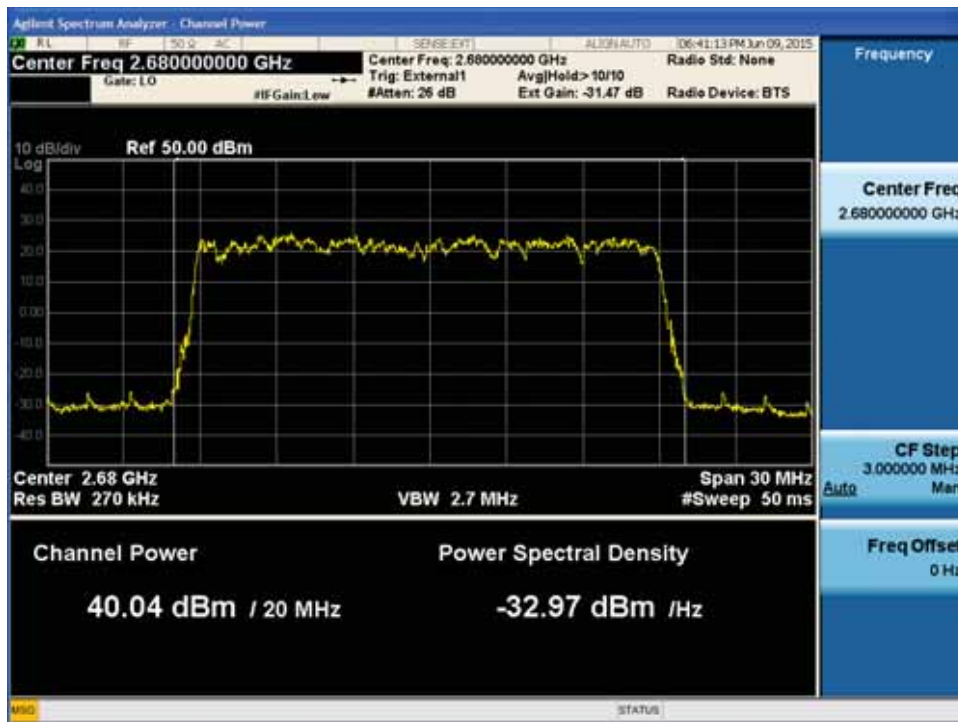
(64QAM Low Channel)



(64QAM Middle Channel)

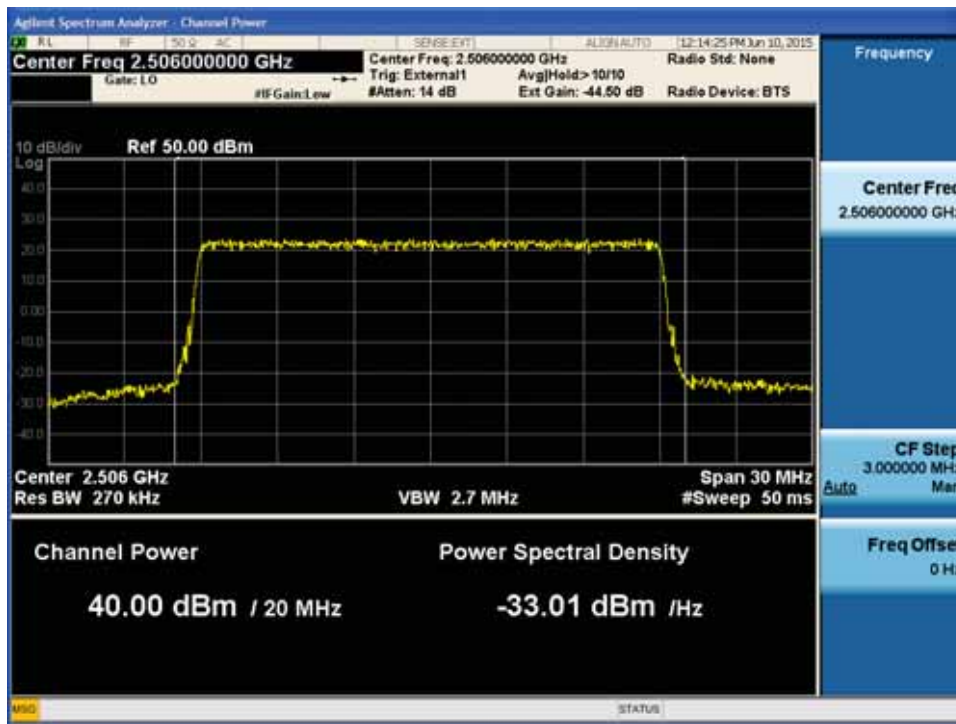


(64QAM High Channel)

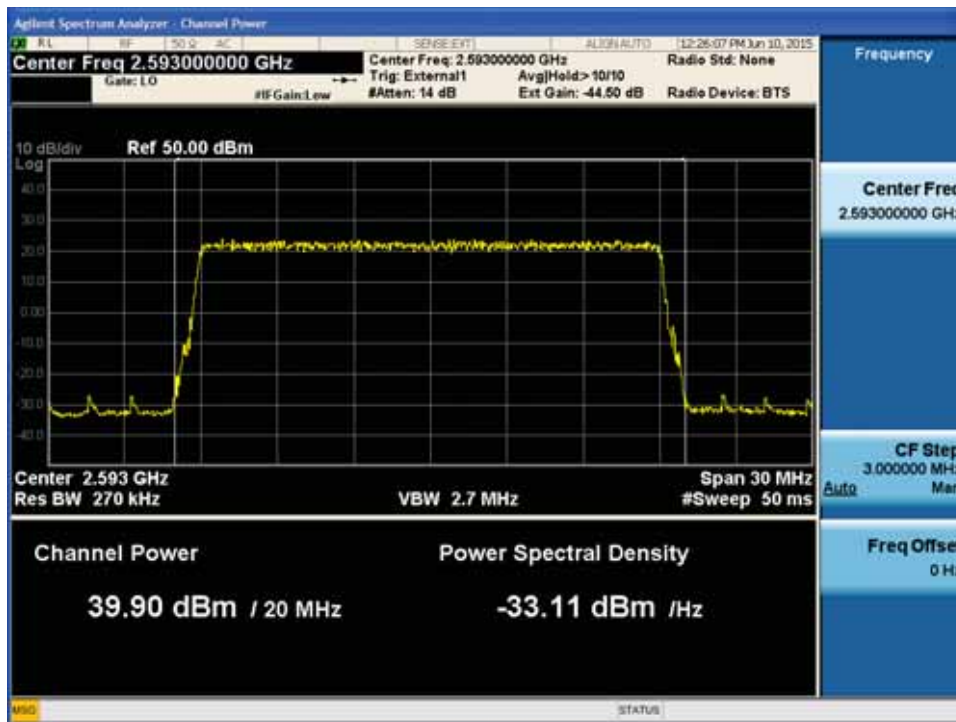


5.7.19. Plot Data for Output Port 6 (Conducted Output Power)

(QPSK Low Channel)



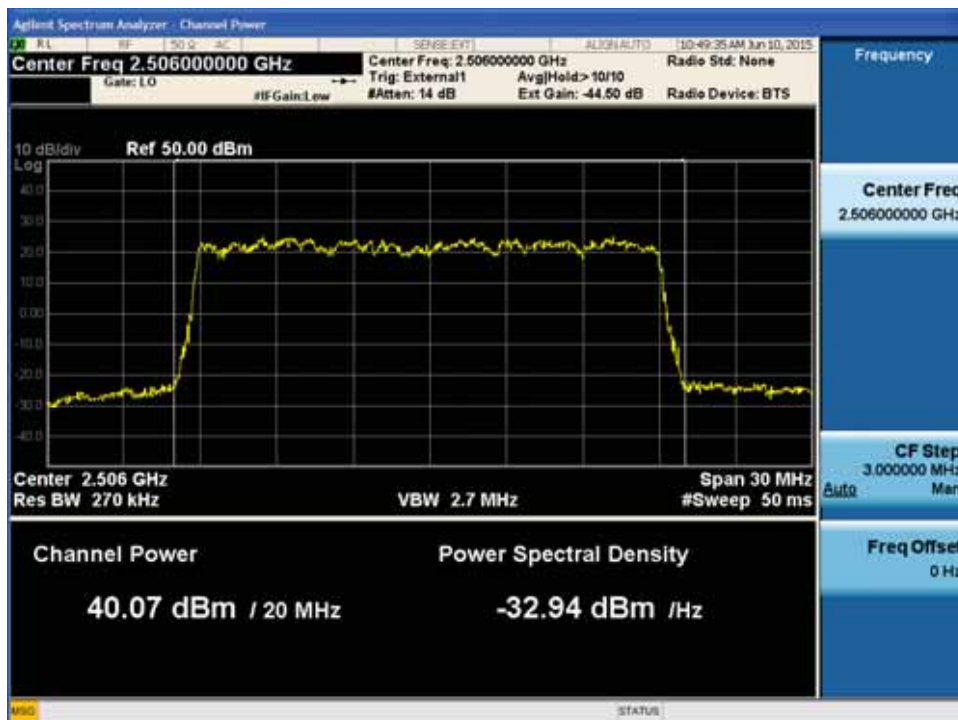
(QPSK Middle Channel)



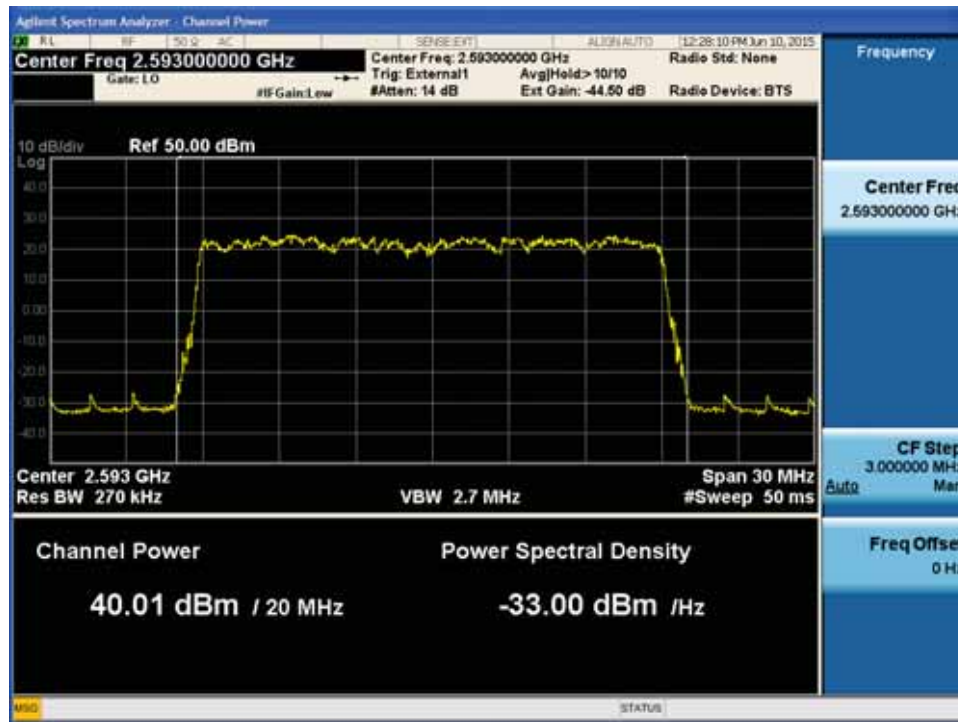
(QPSK High Channel)



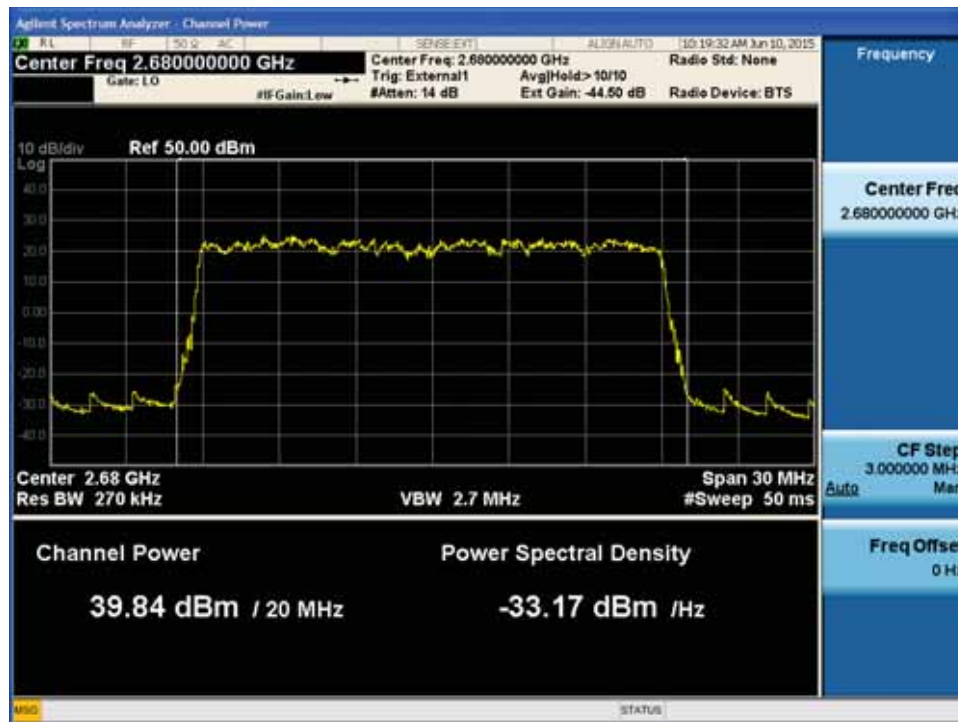
(16QAM Low Channel)



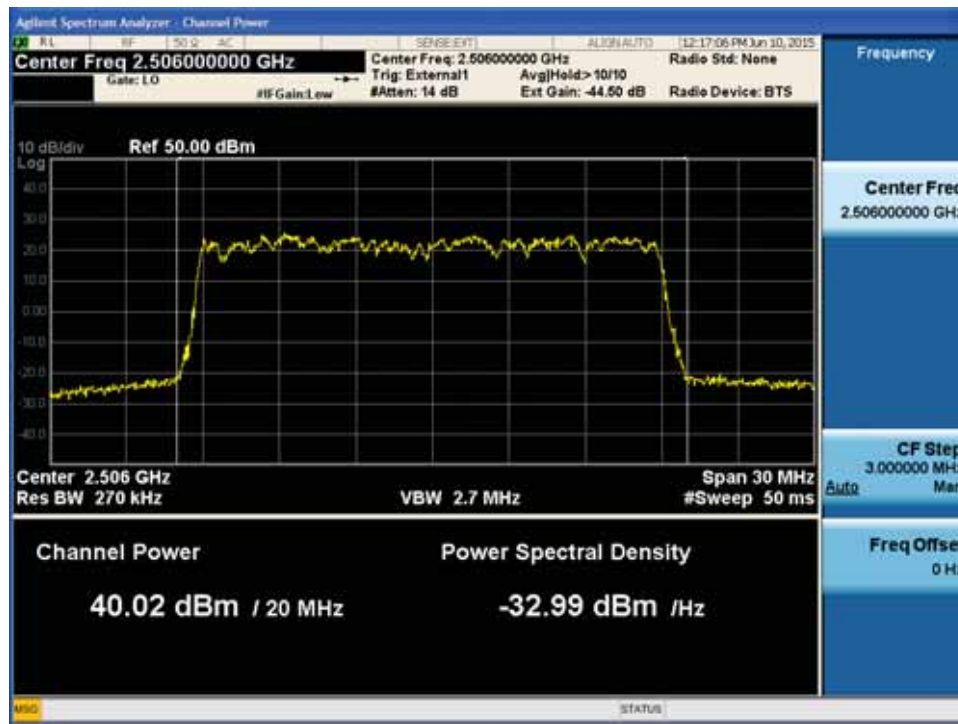
(16QAM Middle Channel)



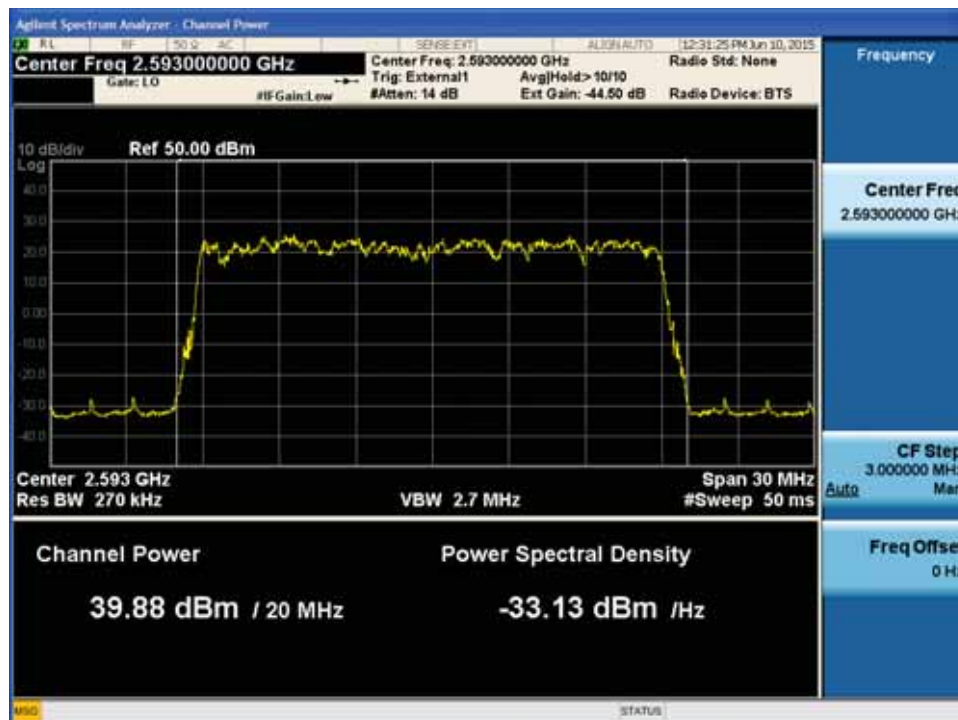
(16QAM High Channel)



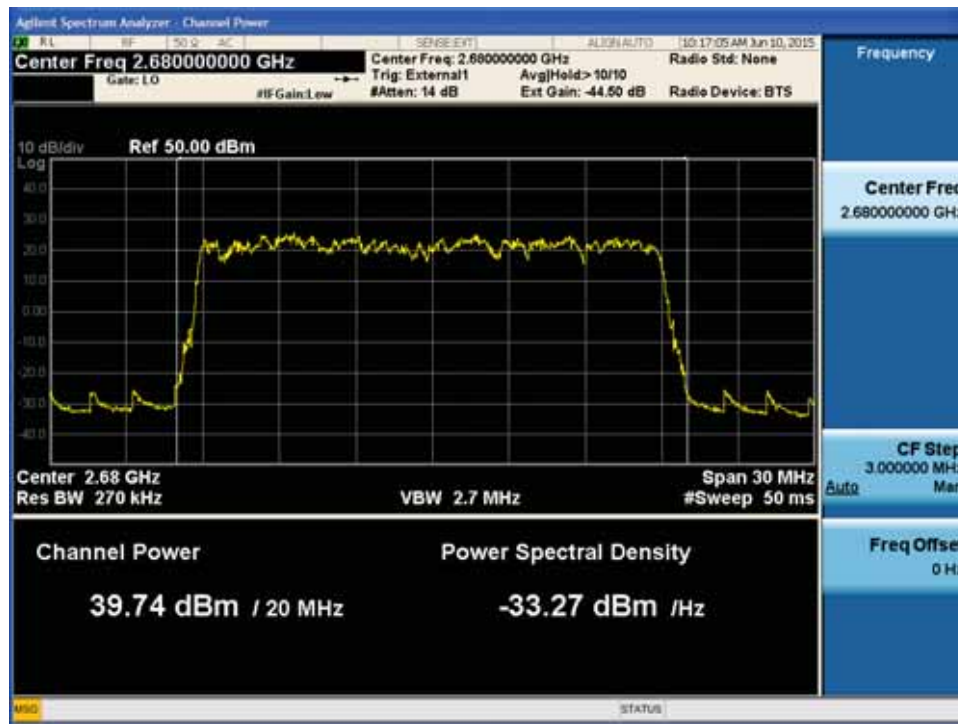
(64QAM Low Channel)



(64QAM Middle Channel)



(64QAM High Channel)

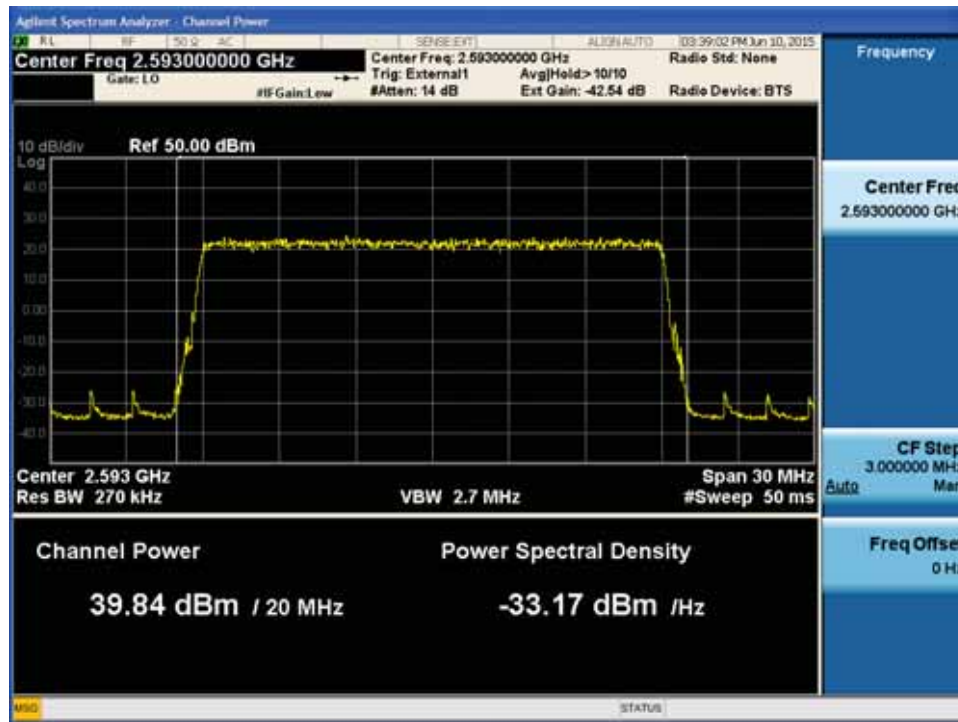


5.7.20. Plot Data for Output Port 7 (Conducted Output Power)

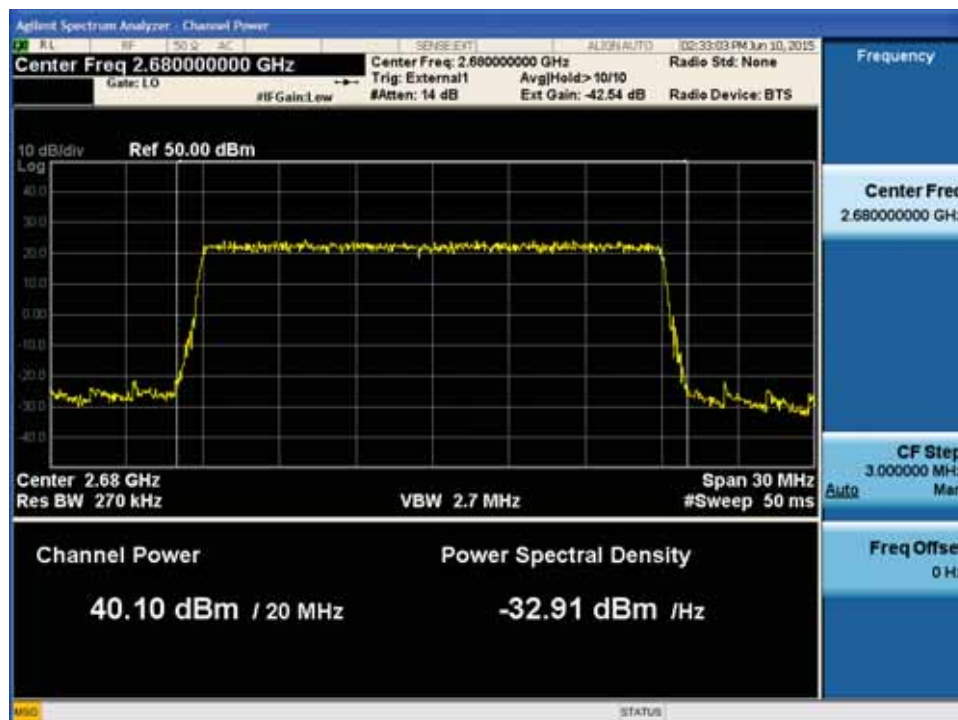
(QPSK Low Channel)



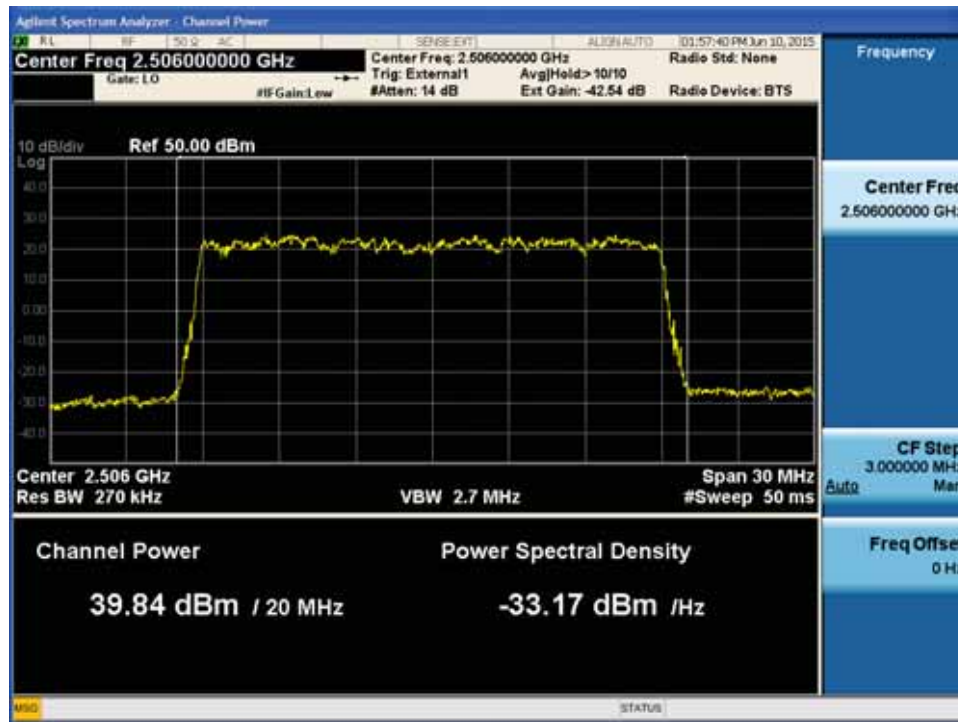
(QPSK Middle Channel)



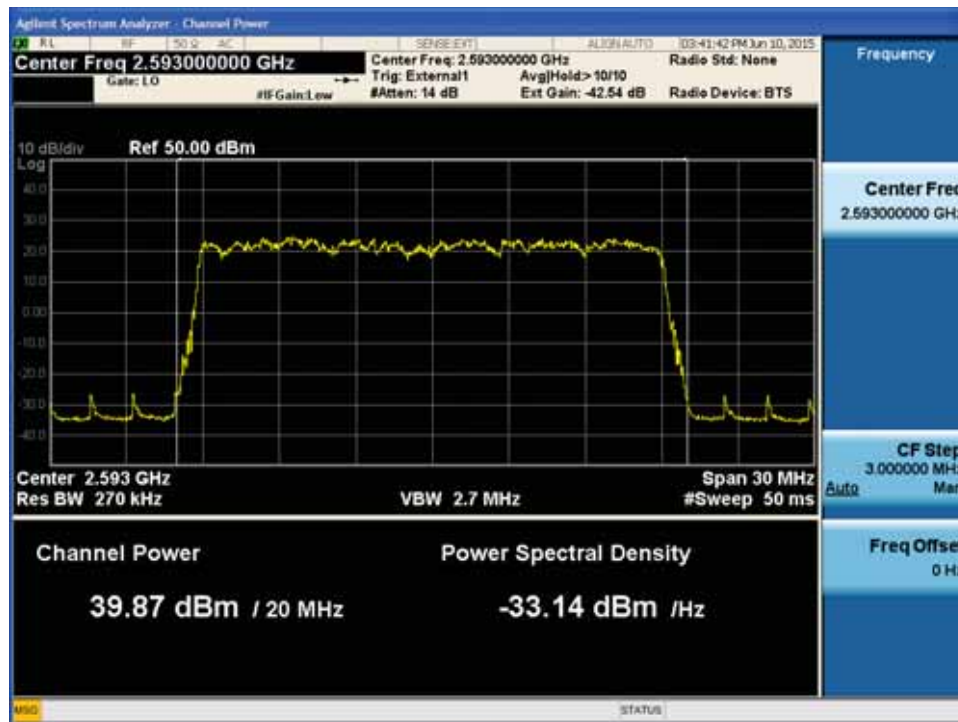
(QPSK High Channel)



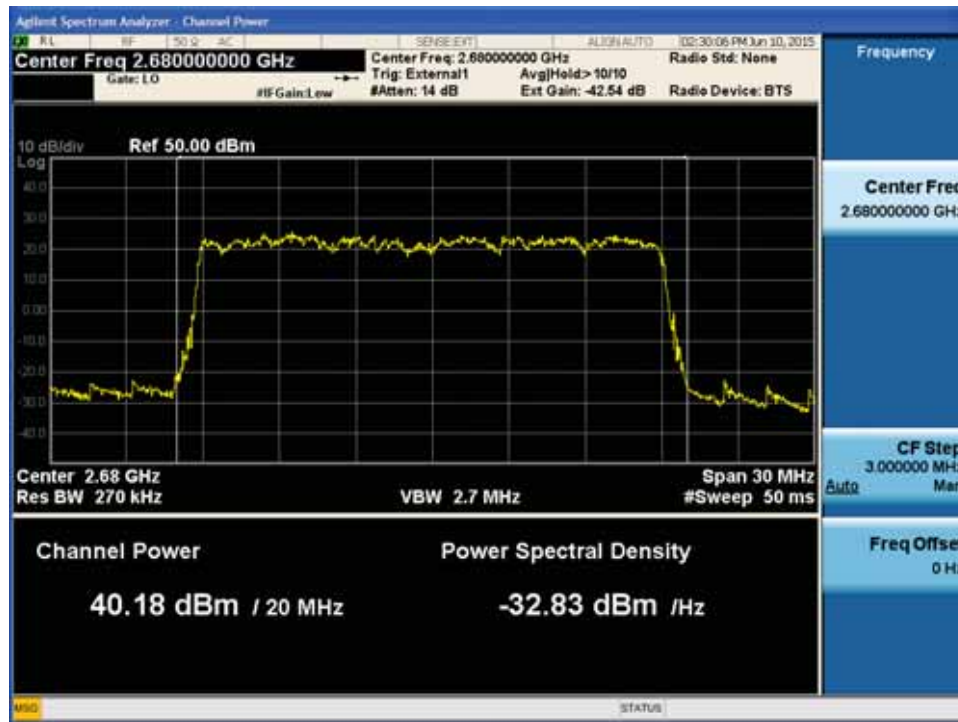
(16QAM Low Channel)



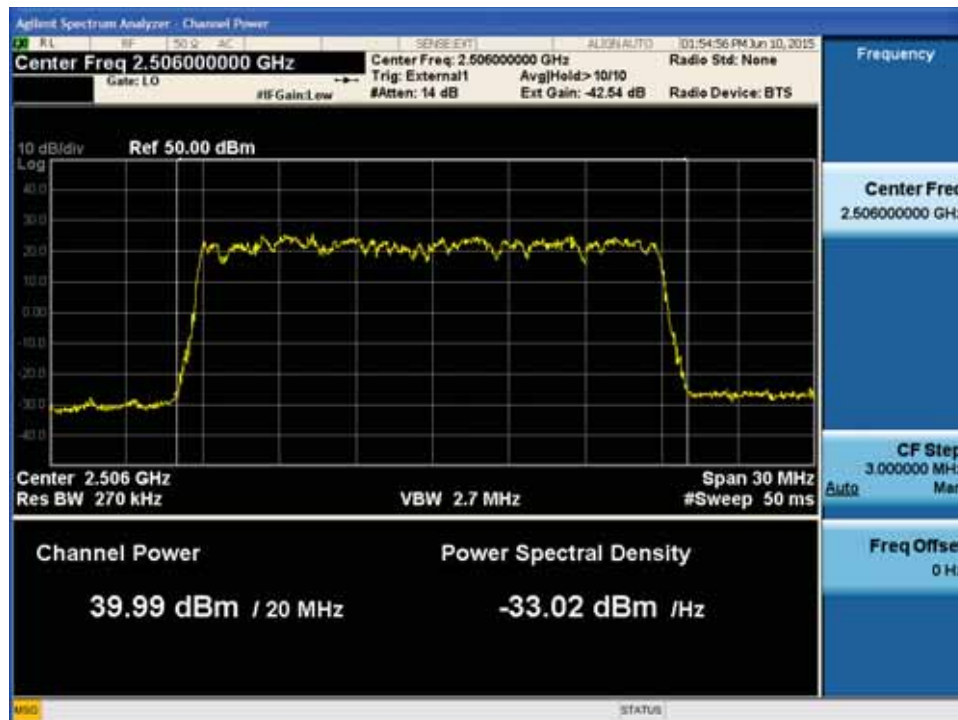
(16QAM Middle Channel)



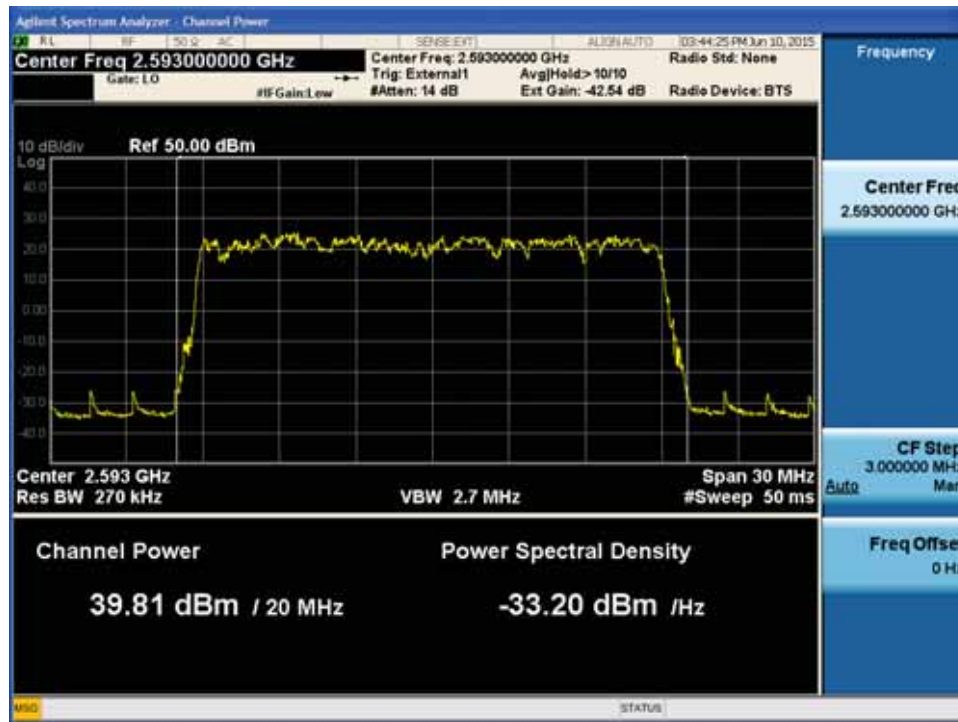
(16QAM High Channel)



(64QAM Low Channel)



(64QAM Middle Channel)

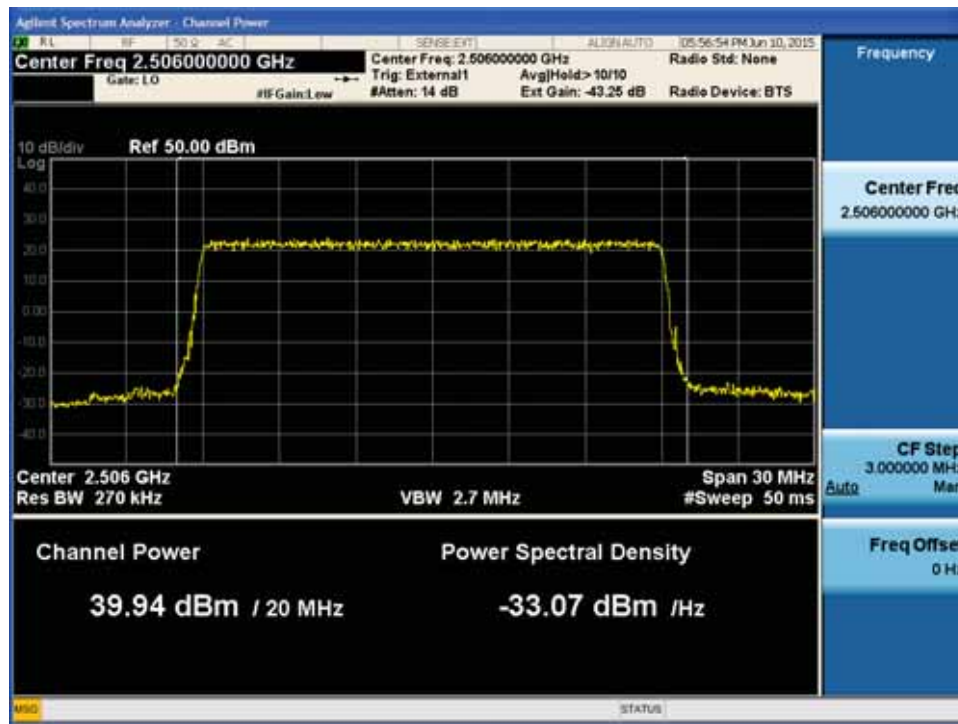


(64QAM High Channel)

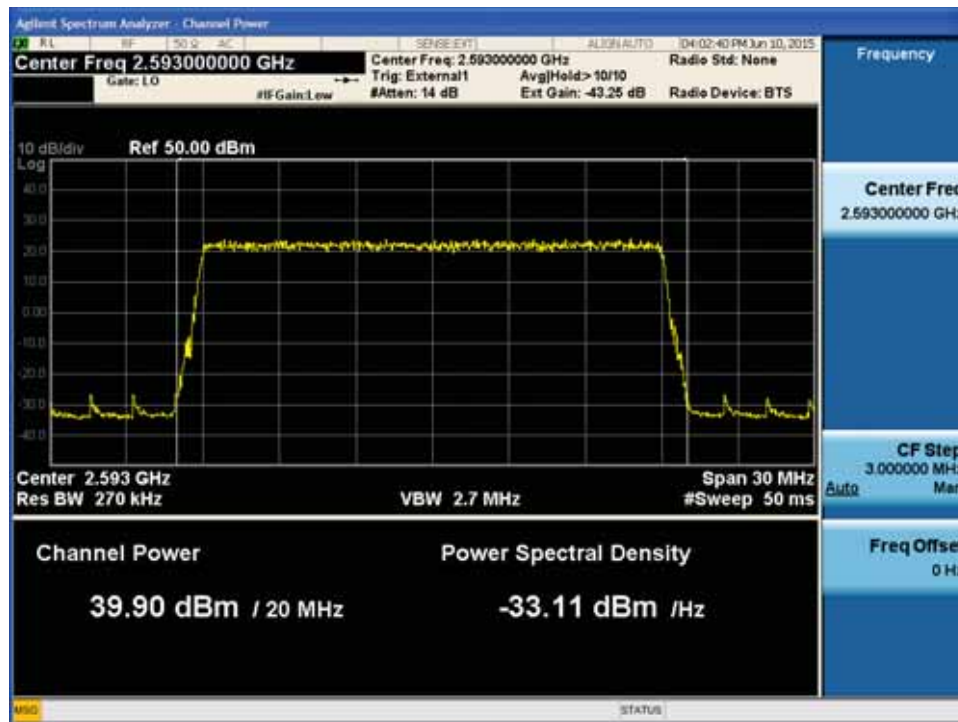


5.7.21. Plot Data for Output Port 8 (Conducted Output Power)

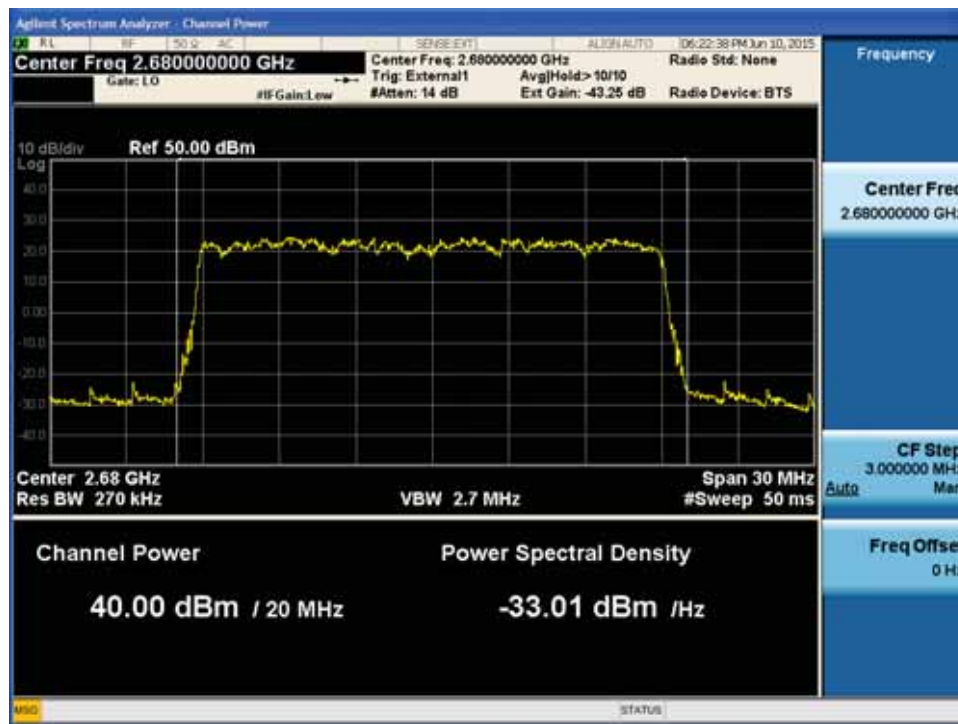
(QPSK Low Channel)



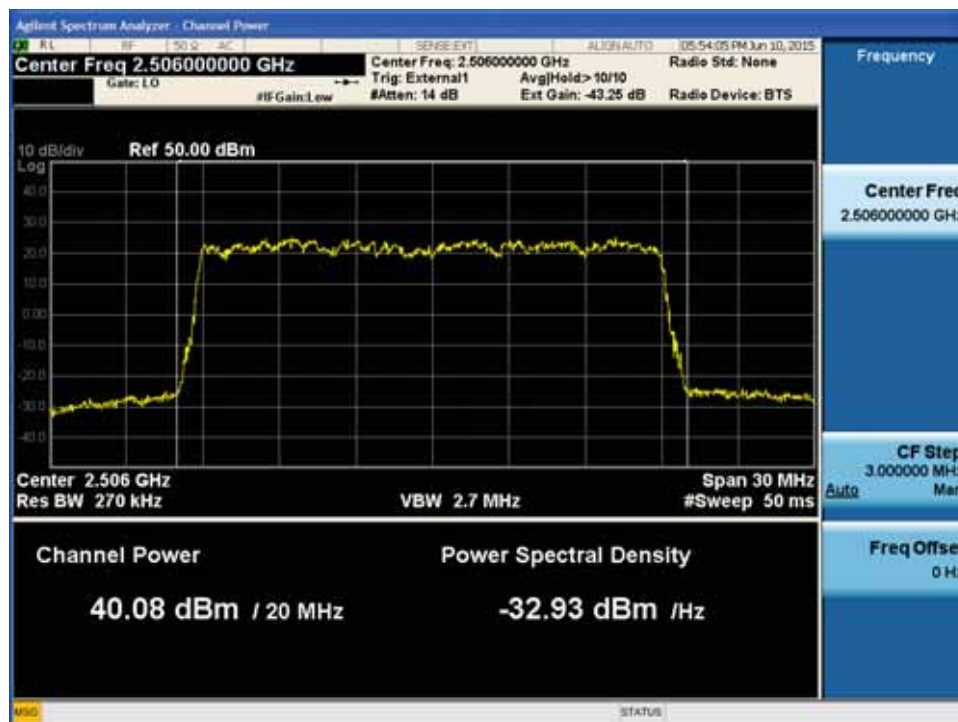
(QPSK Middle Channel)



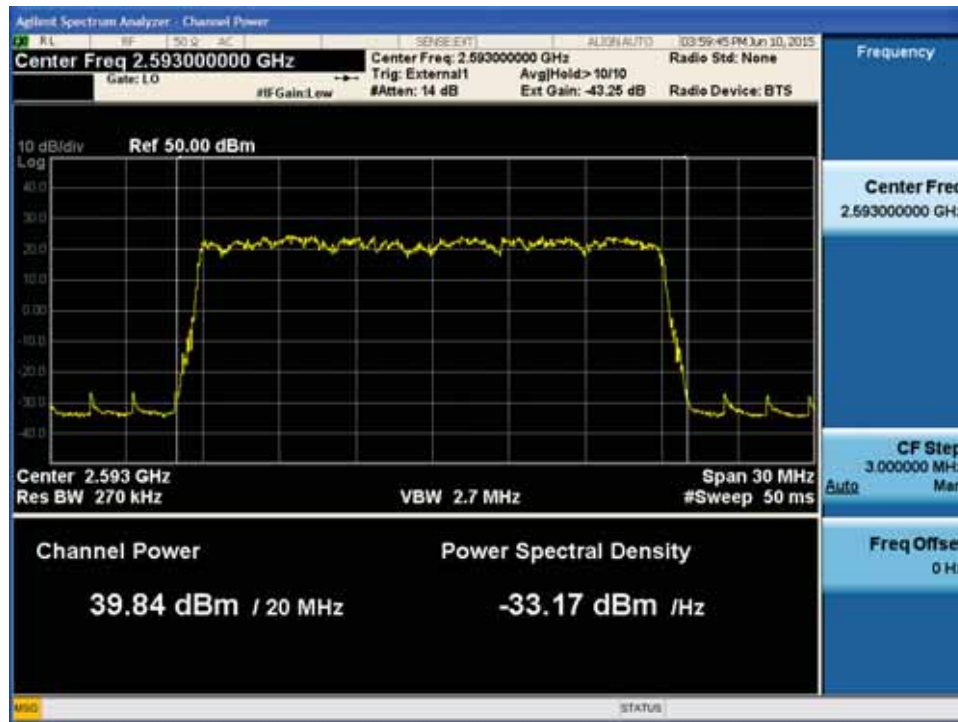
(QPSK High Channel)



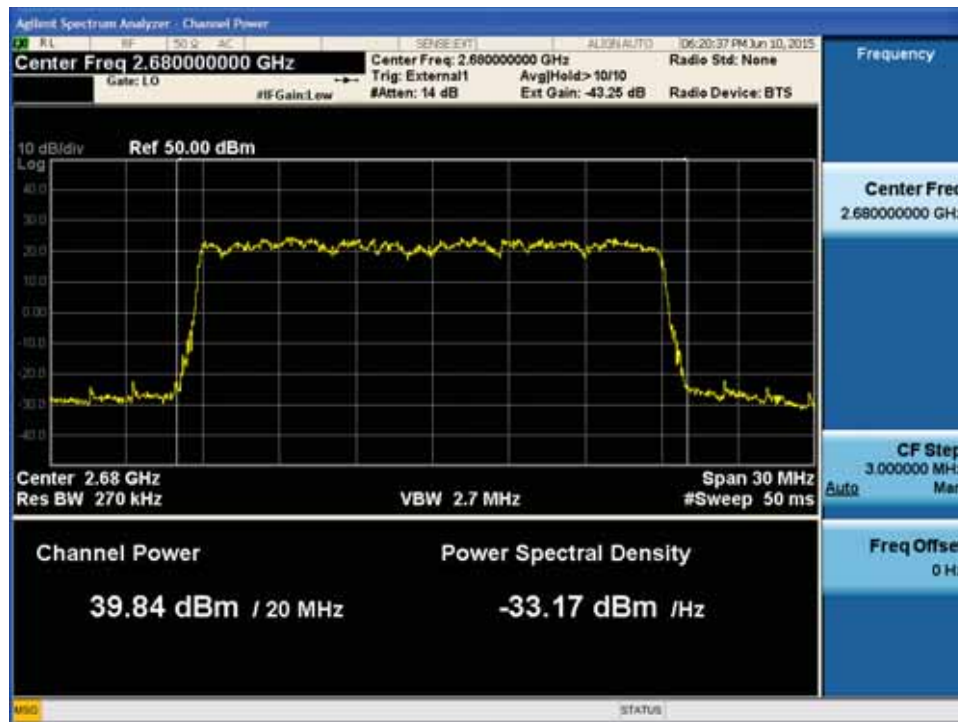
(16QAM Low Channel)



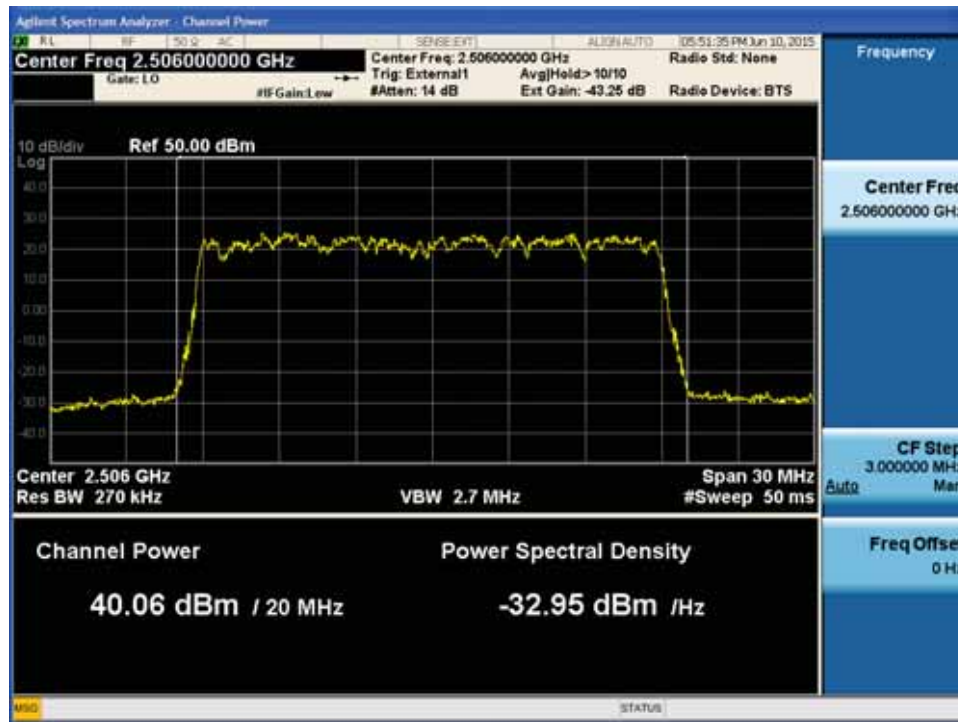
(16QAM Middle Channel)



(16QAM High Channel)



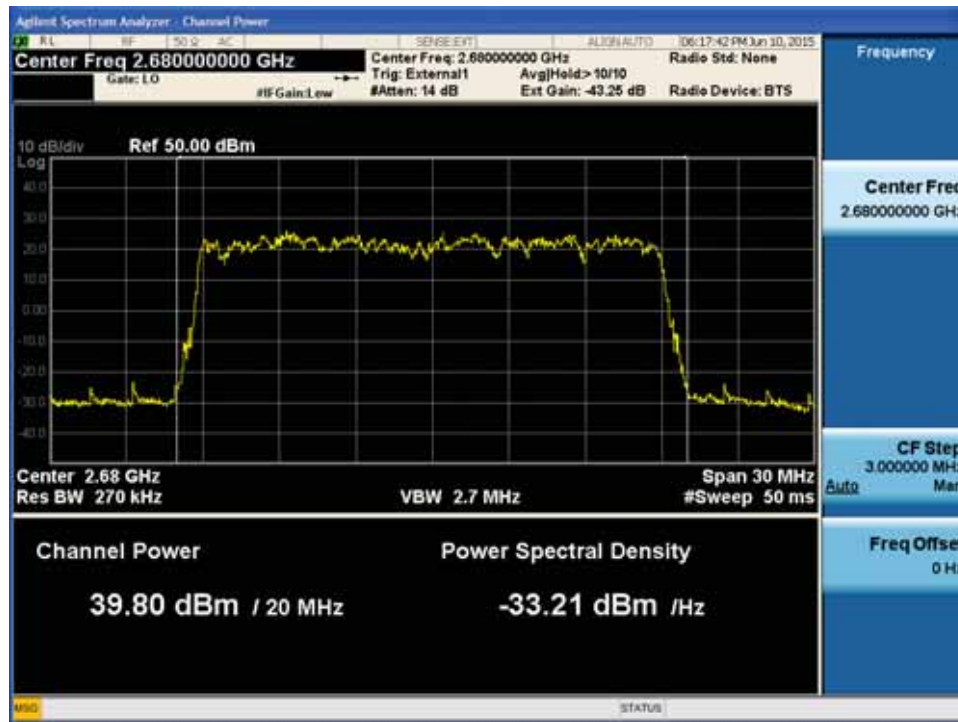
(64QAM Low Channel)



(64QAM Middle Channel)



(64QAM High Channel)



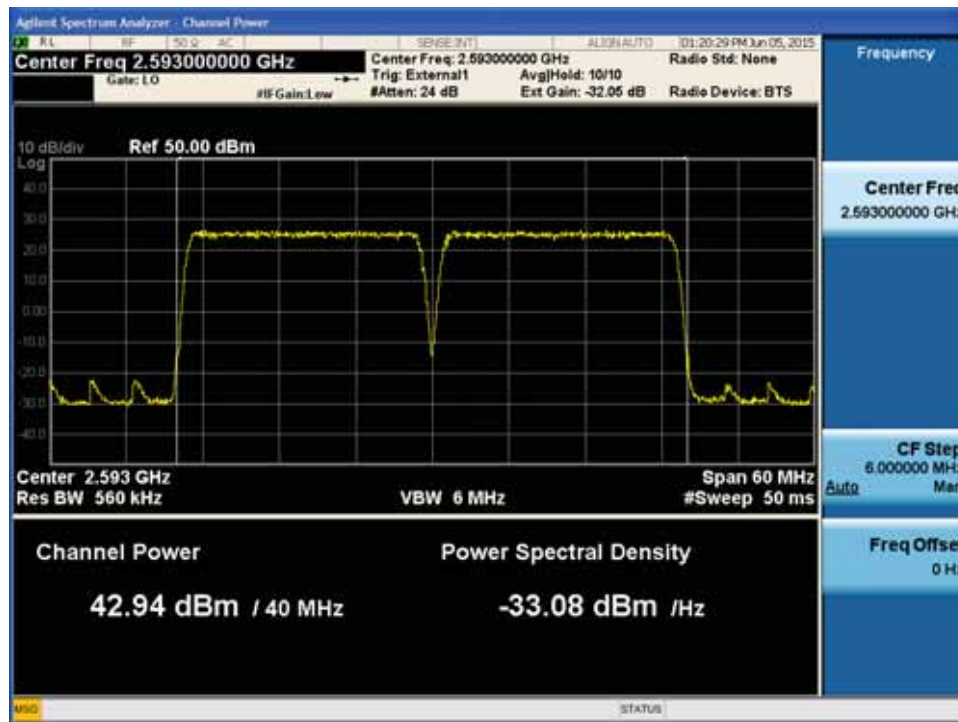
LTE20M(10W) 2 Carrier

5.7.22. Plot Data for Output Port 1 (Conducted Output Power)

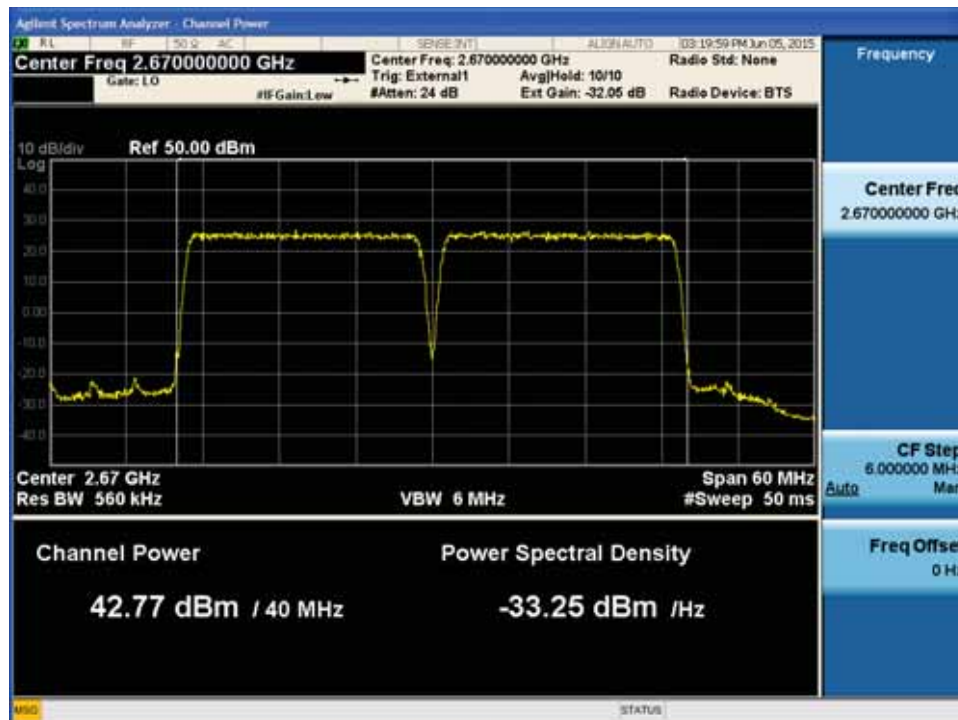
(QPSK Low Channel)



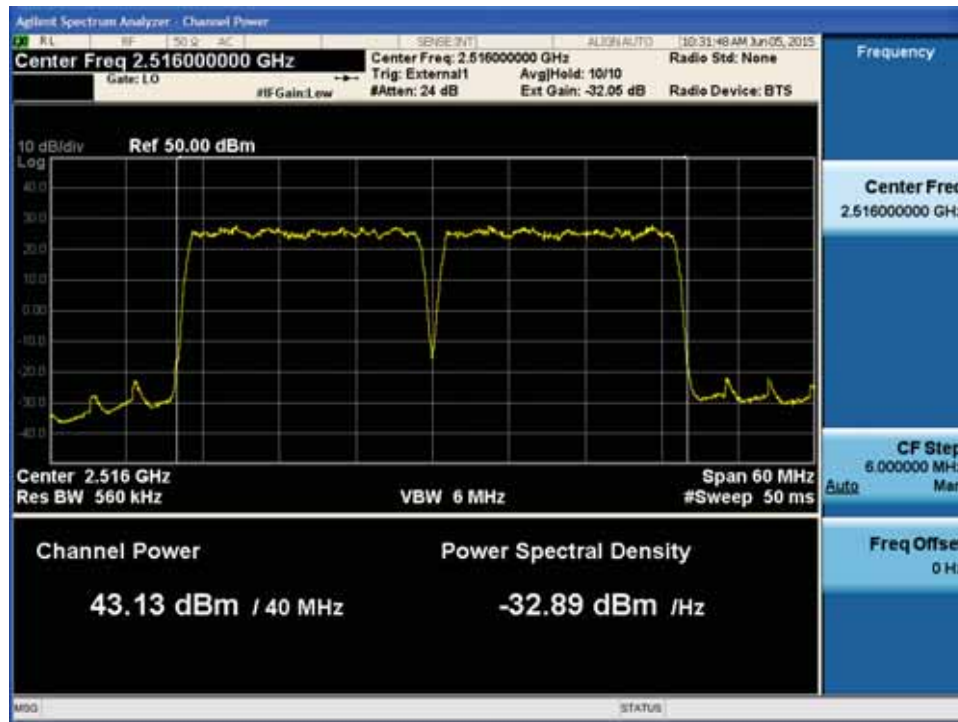
(QPSK Middle Channel)



(QPSK High Channel)



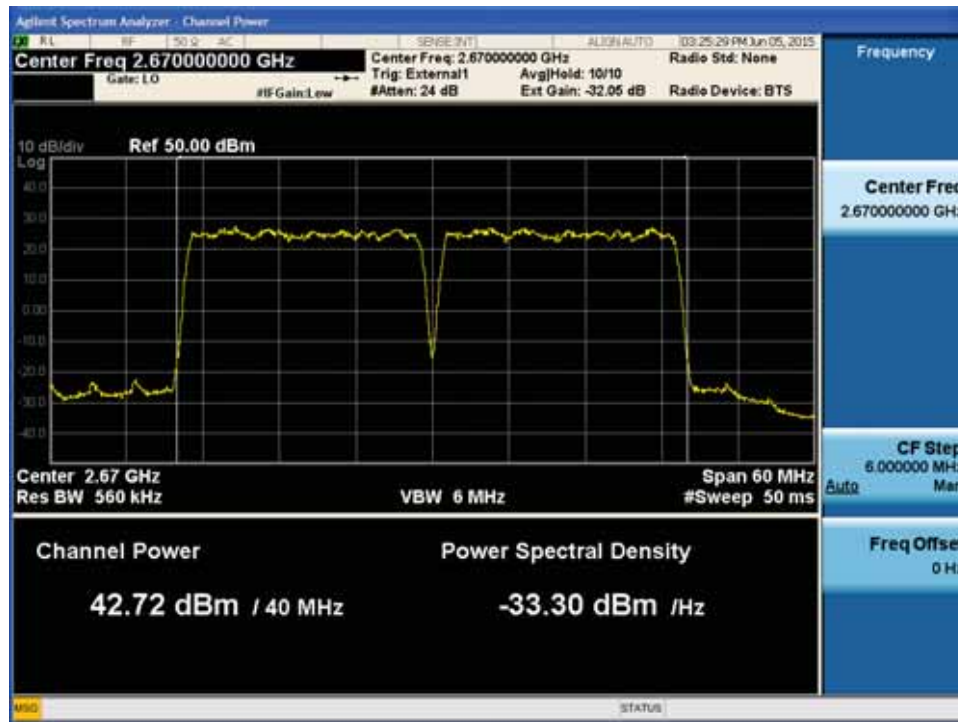
(16QAM Low Channel)



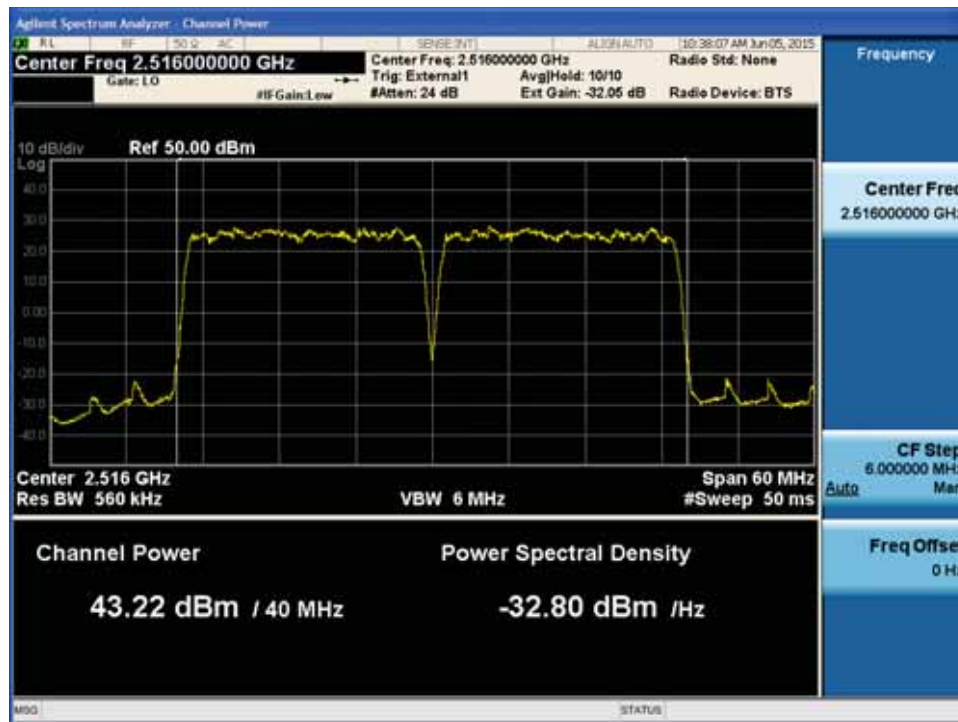
(16QAM Middle Channel)



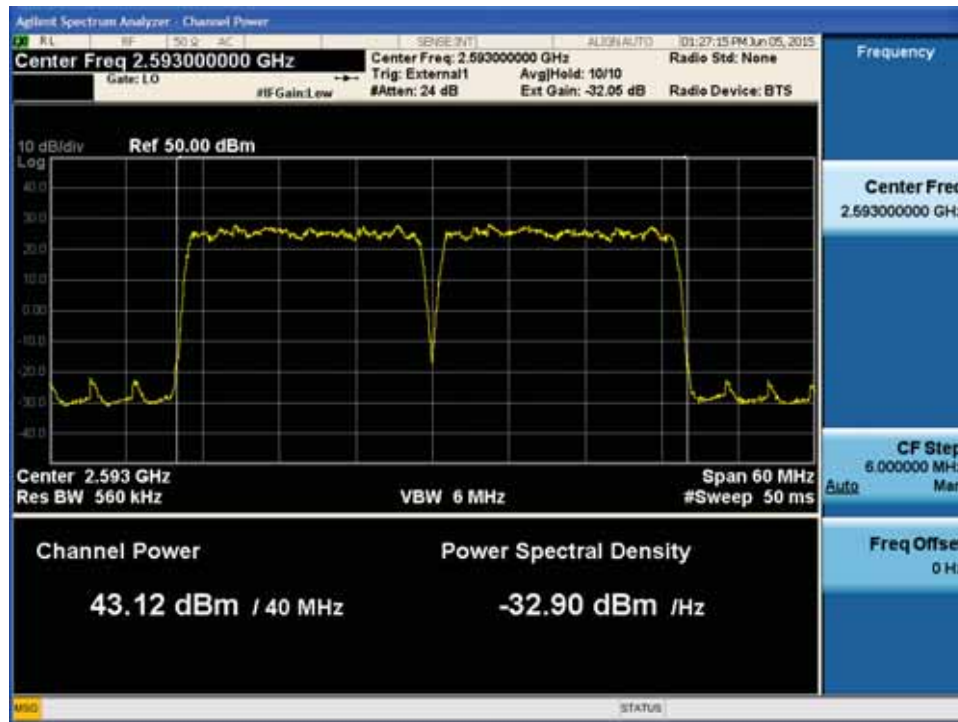
(16QAM High Channel)



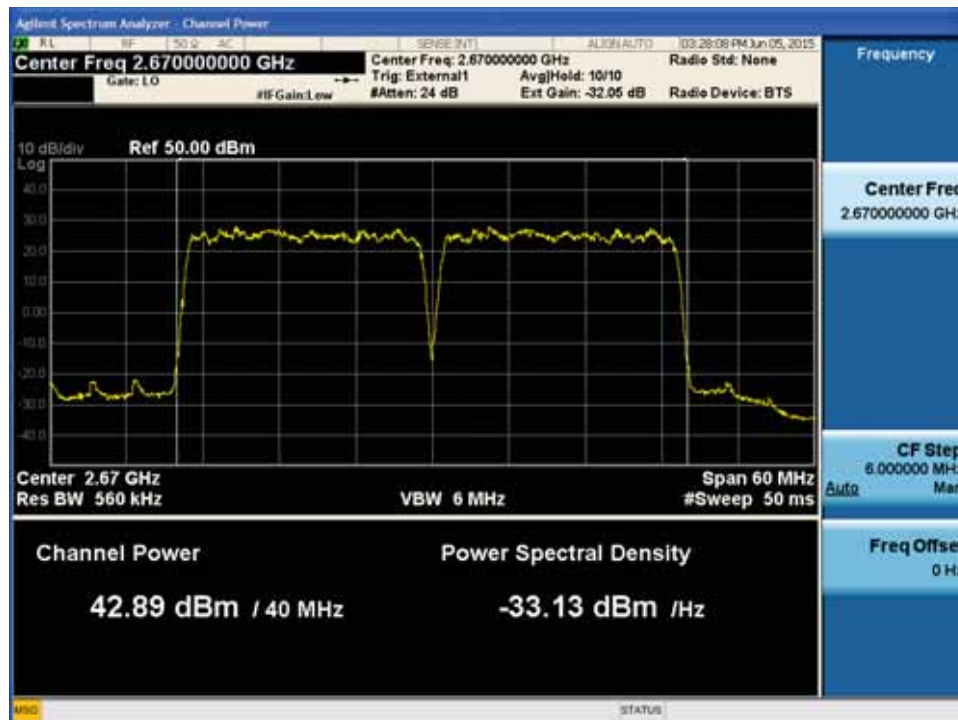
(64QAM Low Channel)



(64QAM Middle Channel)

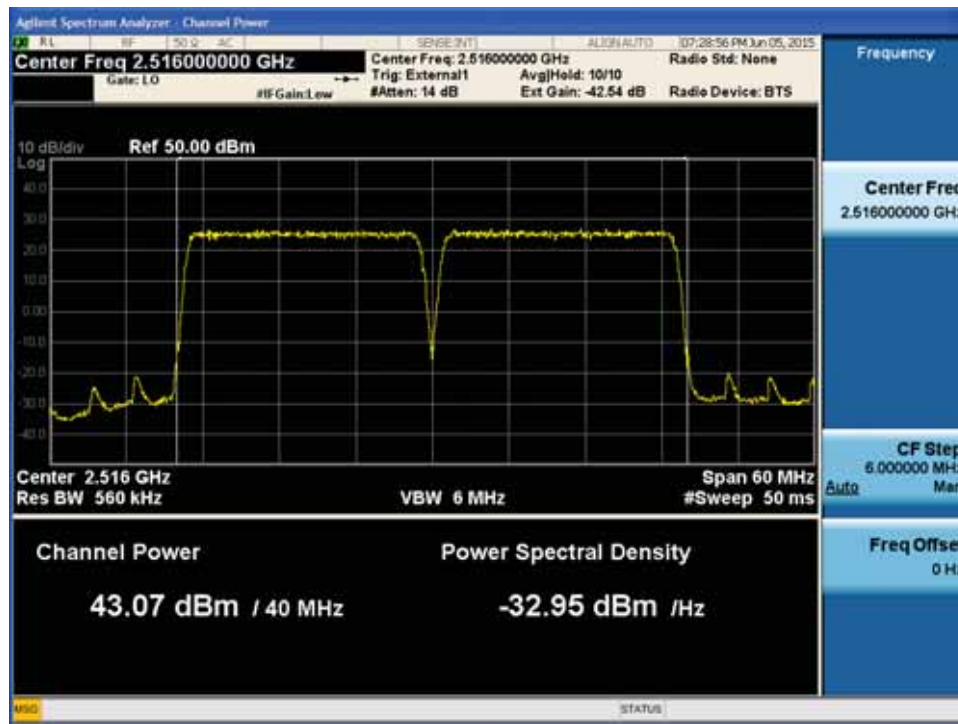


(64QAM High Channel)

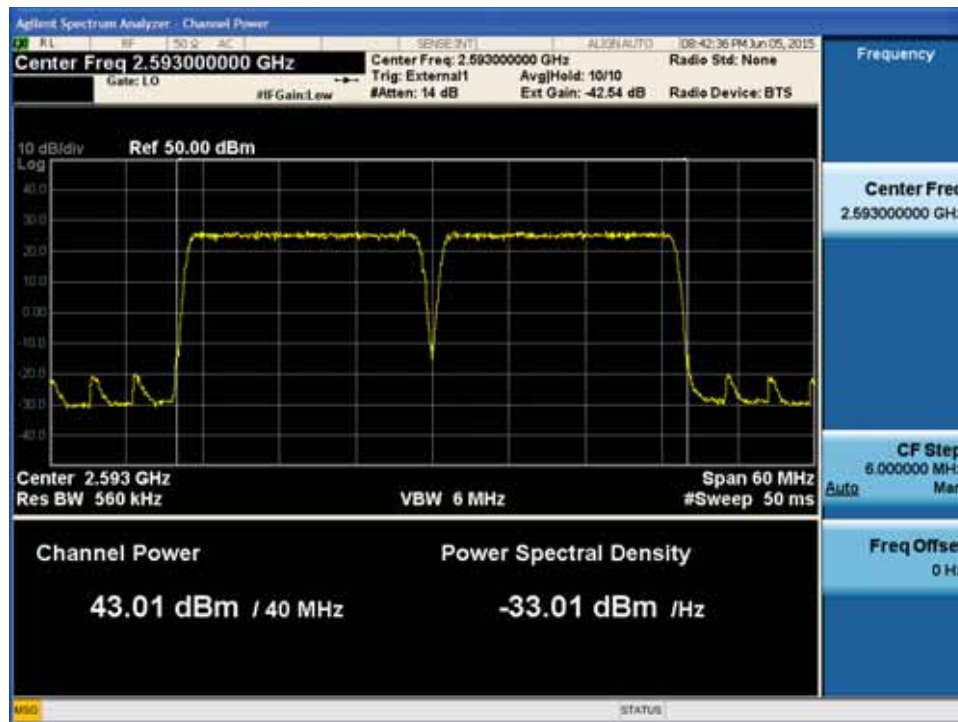


5.7.23. Plot Data for Output Port 2 (Conducted Output Power)

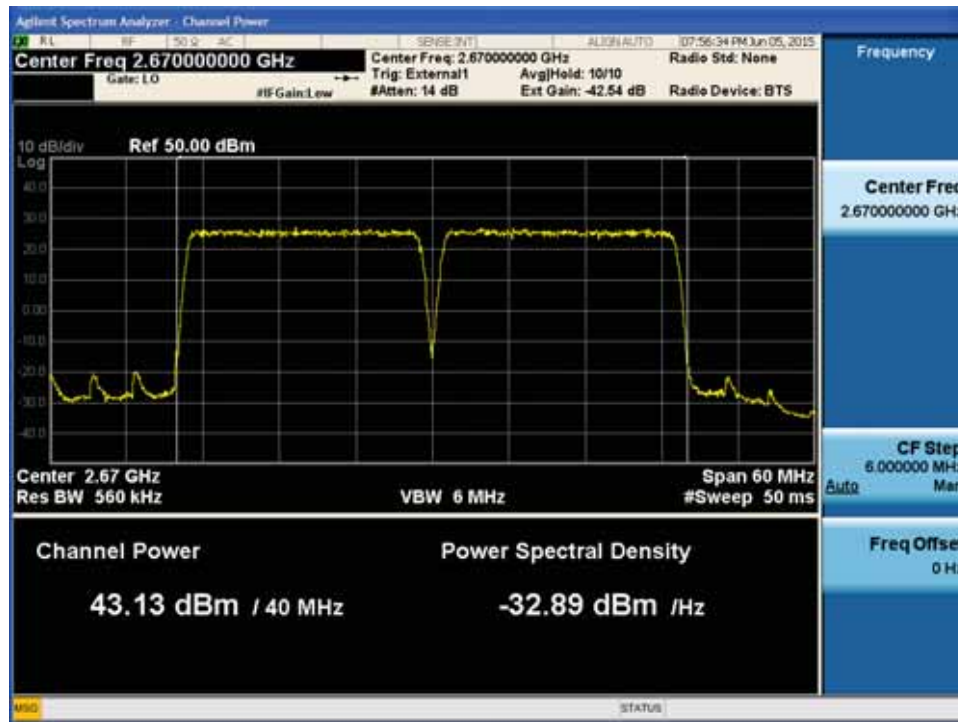
(QPSK Low Channel)



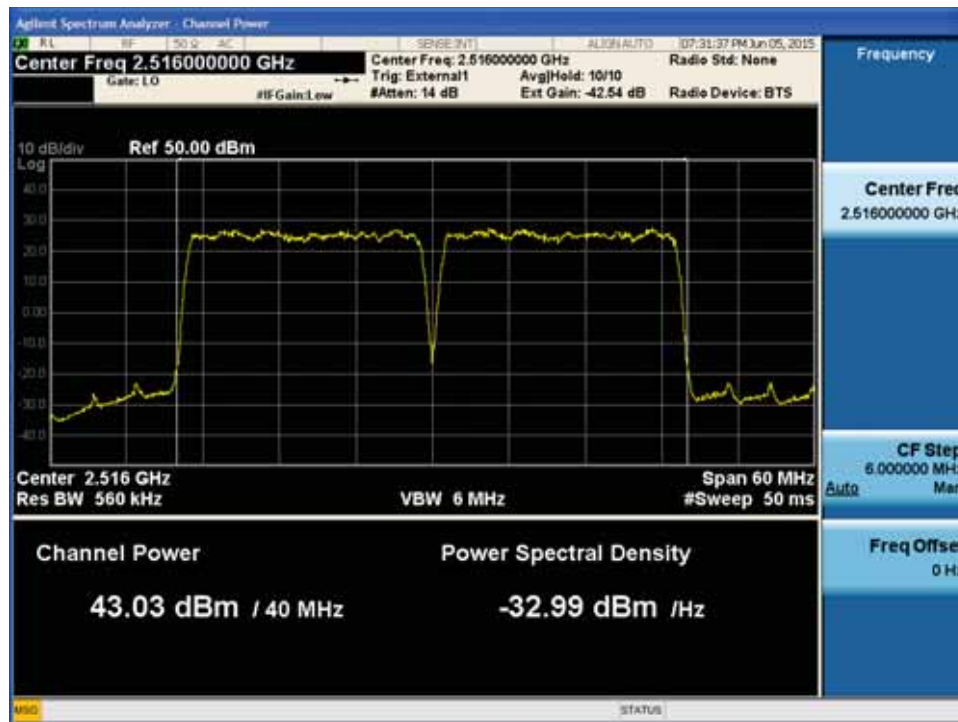
(QPSK Middle Channel)



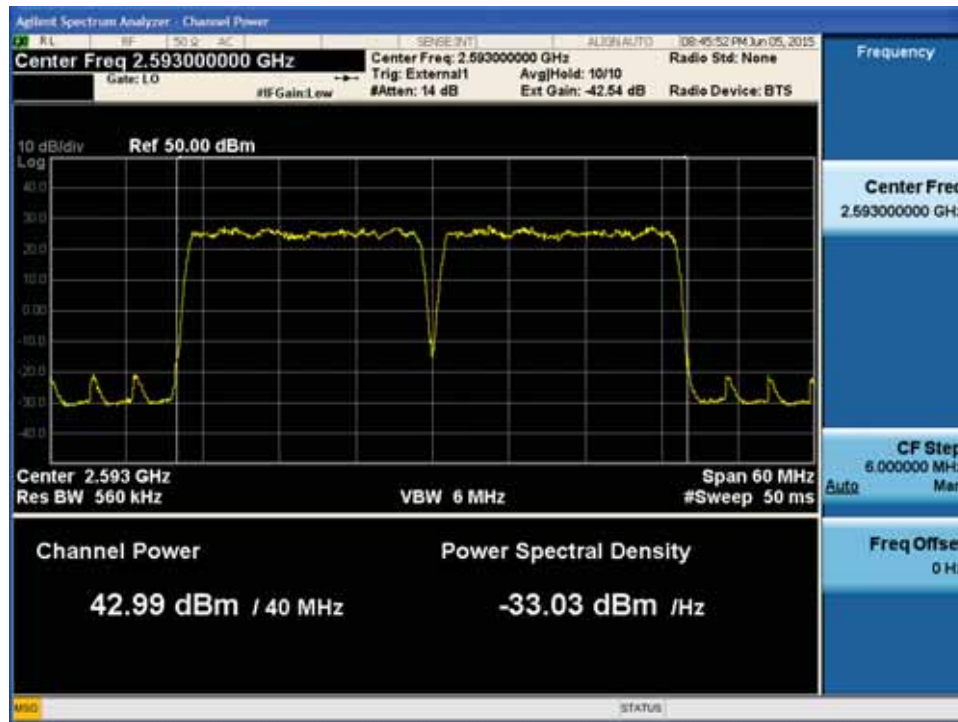
(QPSK High Channel)



(16QAM Low Channel)



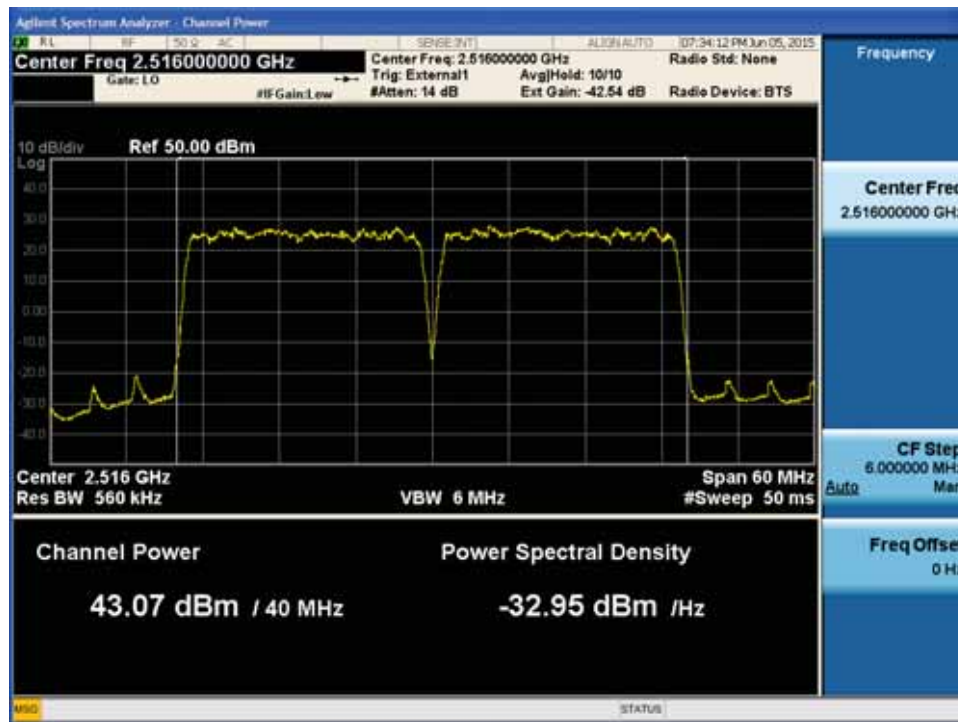
(16QAM Middle Channel)



(16QAM High Channel)



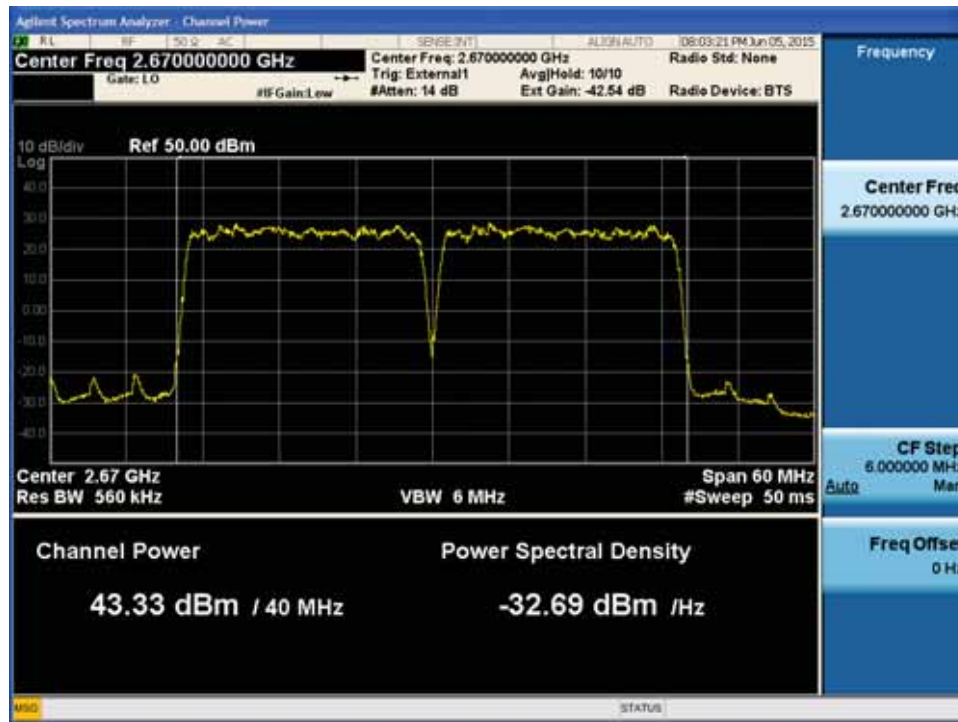
(64QAM Low Channel)



(64QAM Middle Channel)

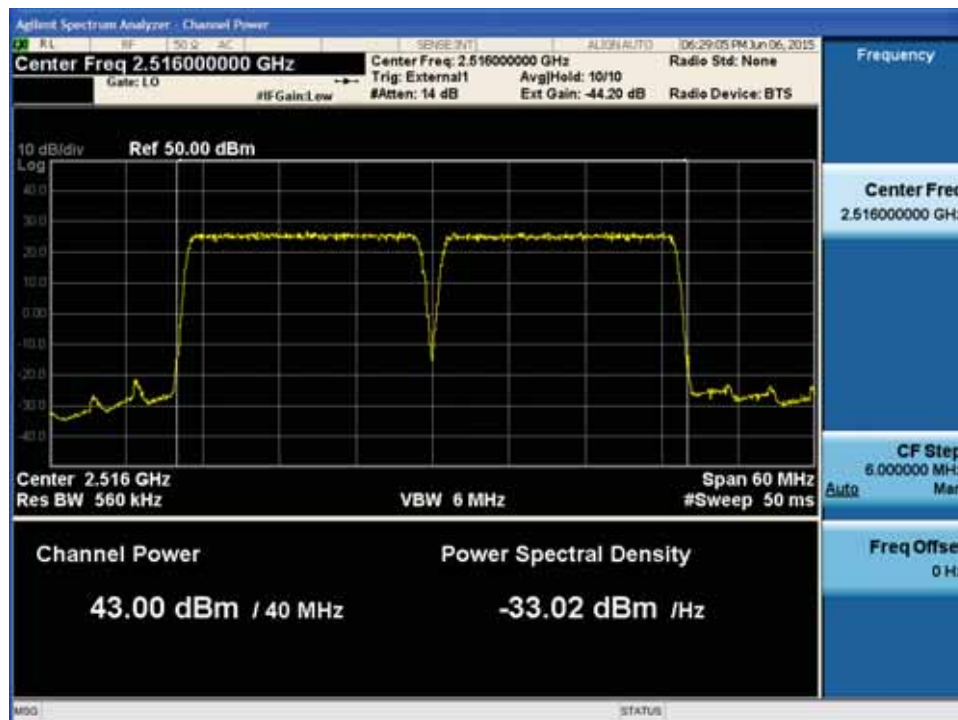


(64QAM High Channel)

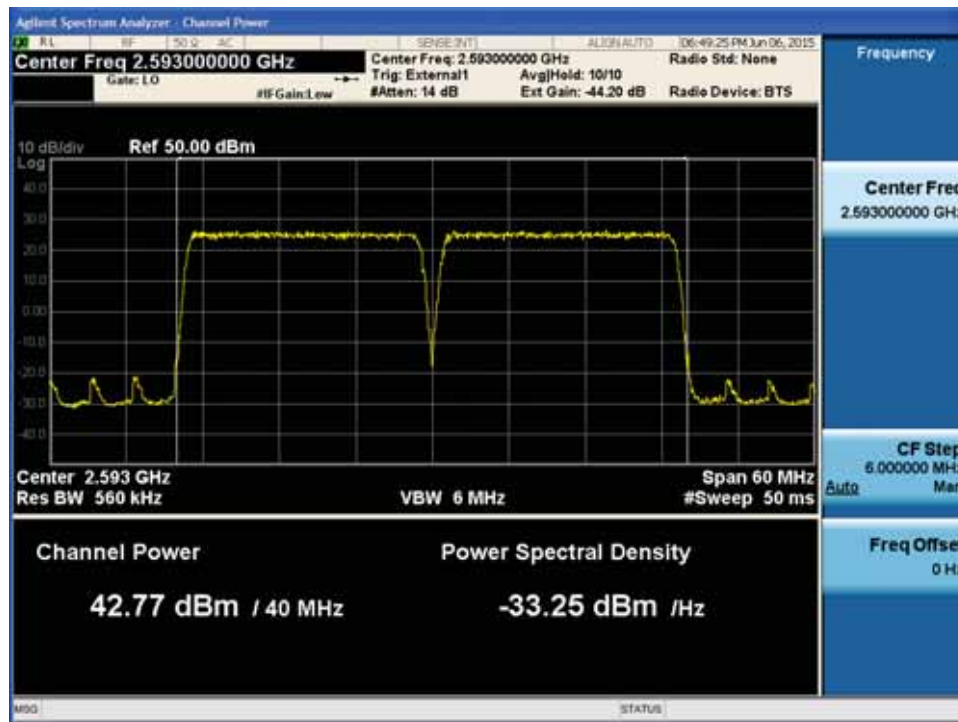


5.7.24. Plot Data for Output Port 3 (Conducted Output Power)

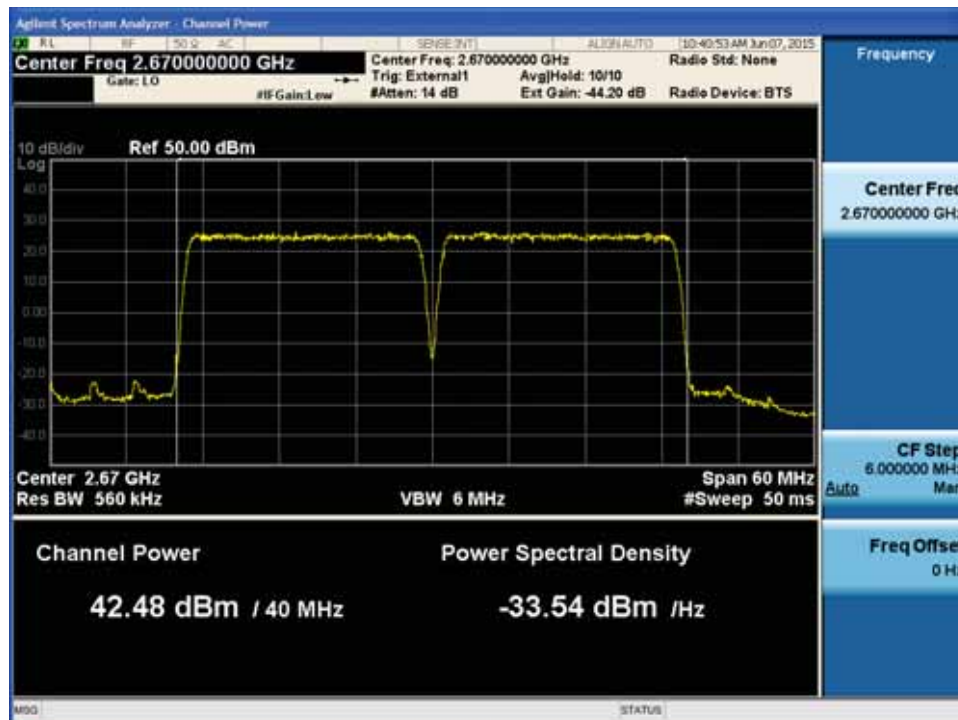
(QPSK Low Channel)



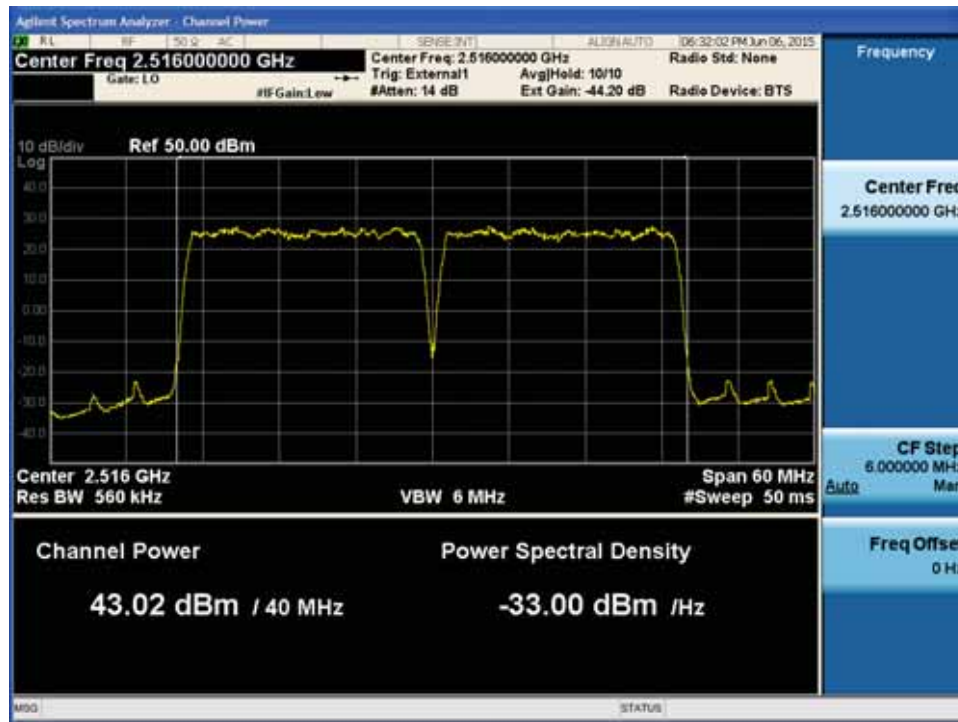
(QPSK Middle Channel)



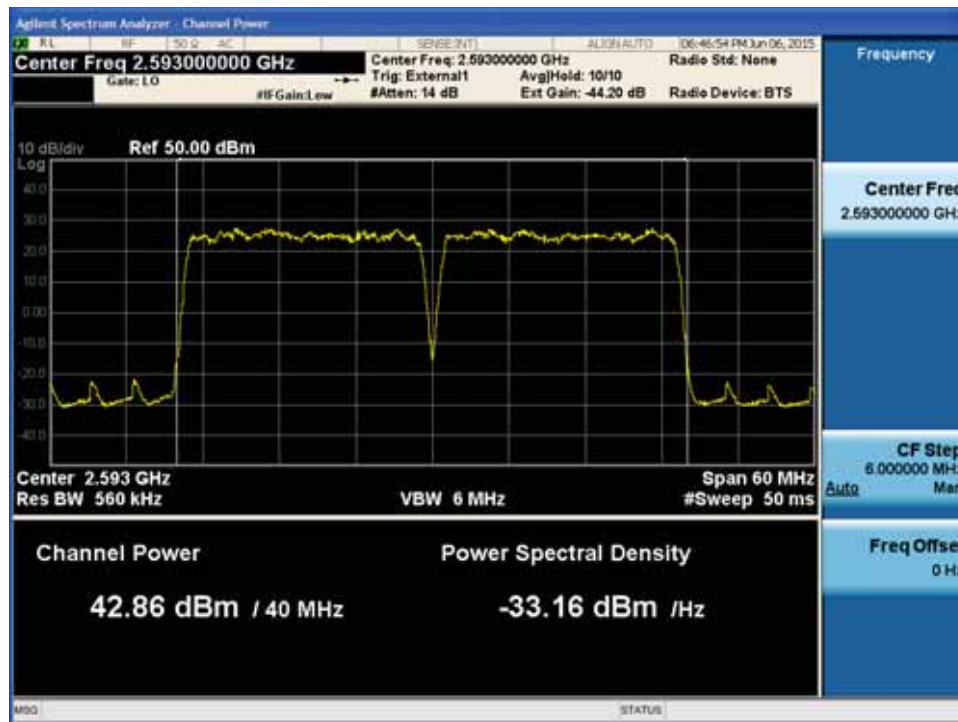
(QPSK High Channel)



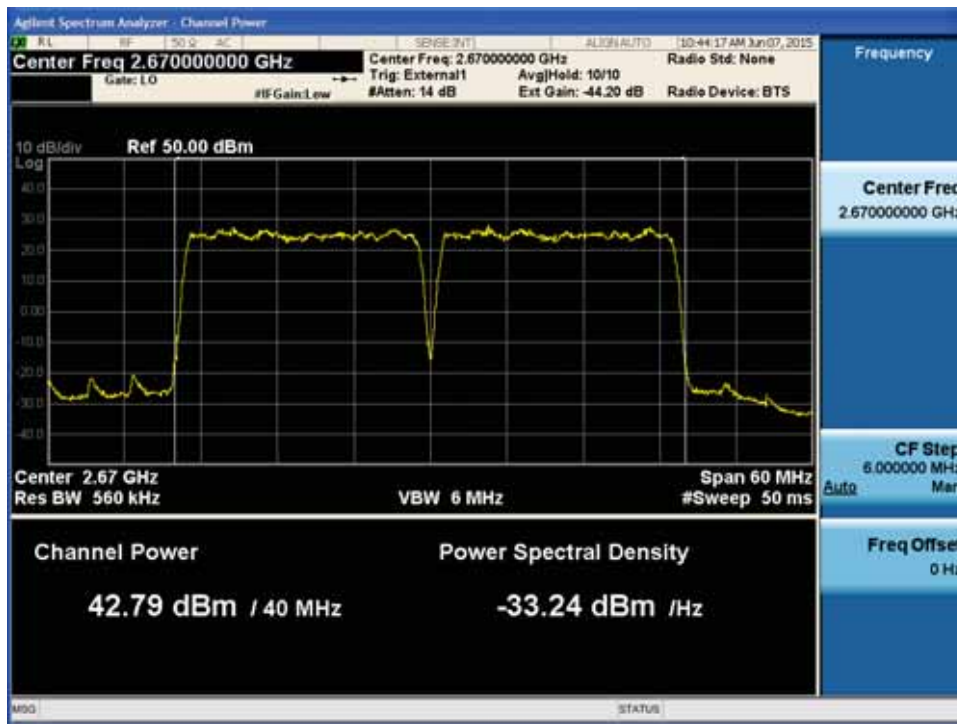
(16QAM Low Channel)



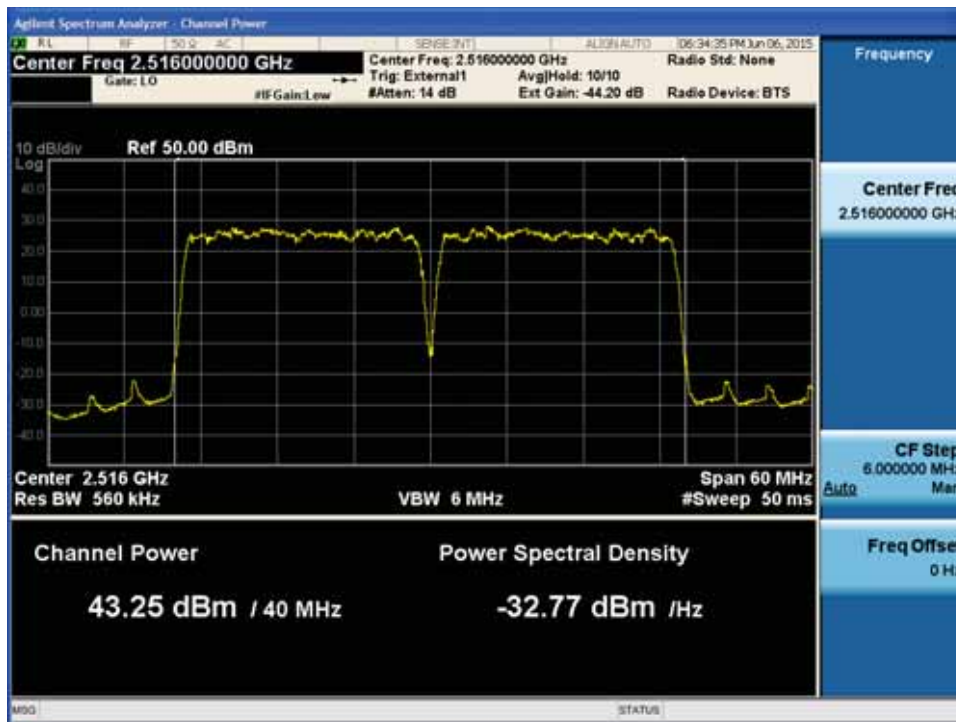
(16QAM Middle Channel)



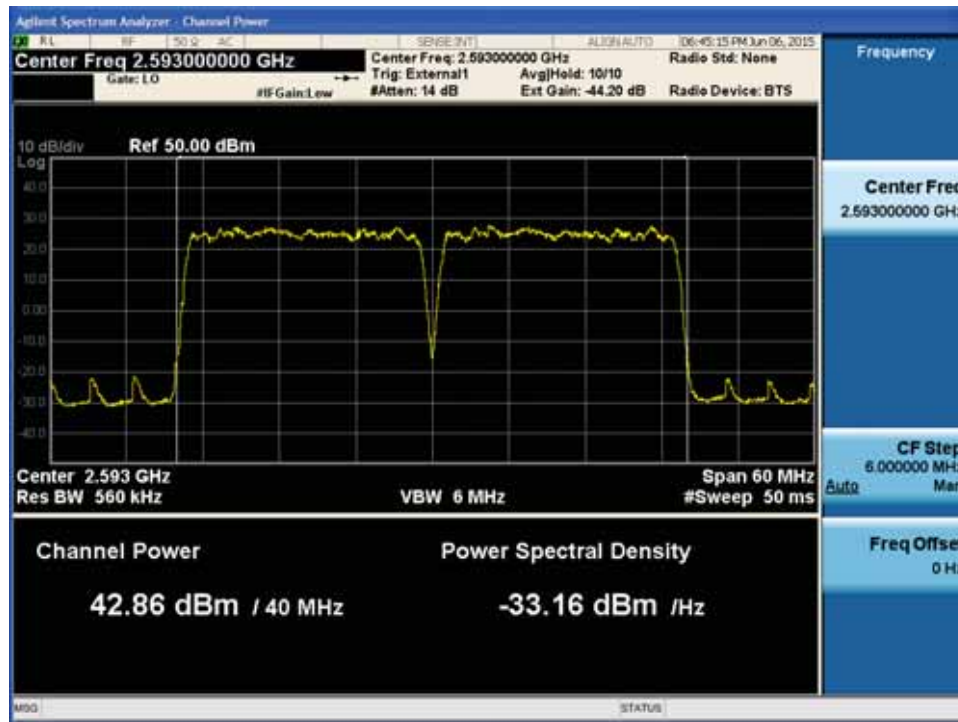
(16QAM High Channel)



(64QAM Low Channel)



(64QAM Middle Channel)

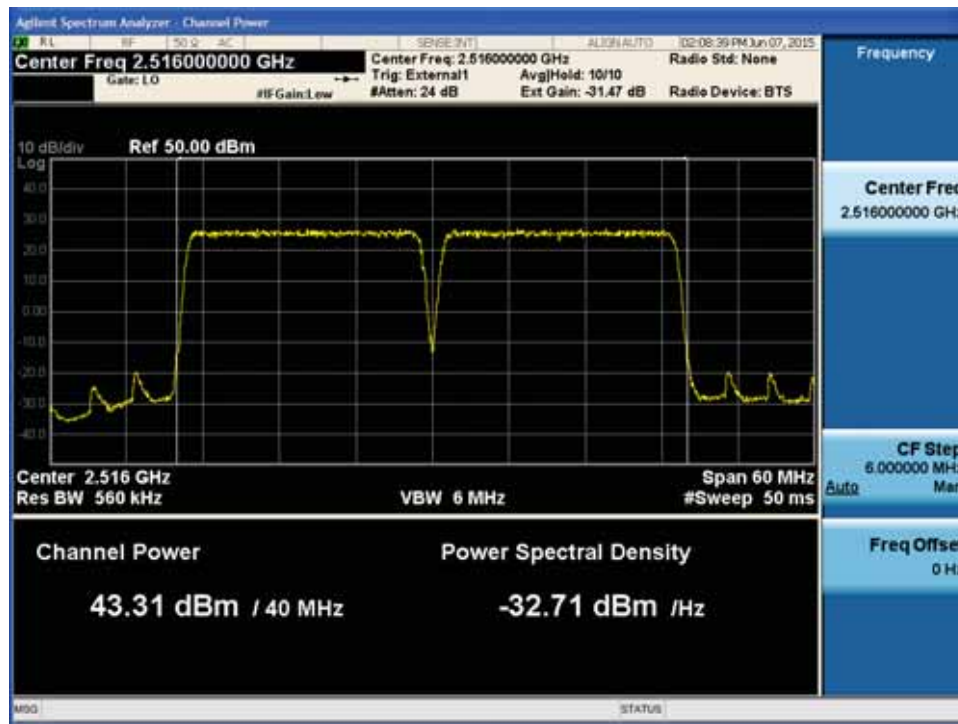


(64QAM High Channel)

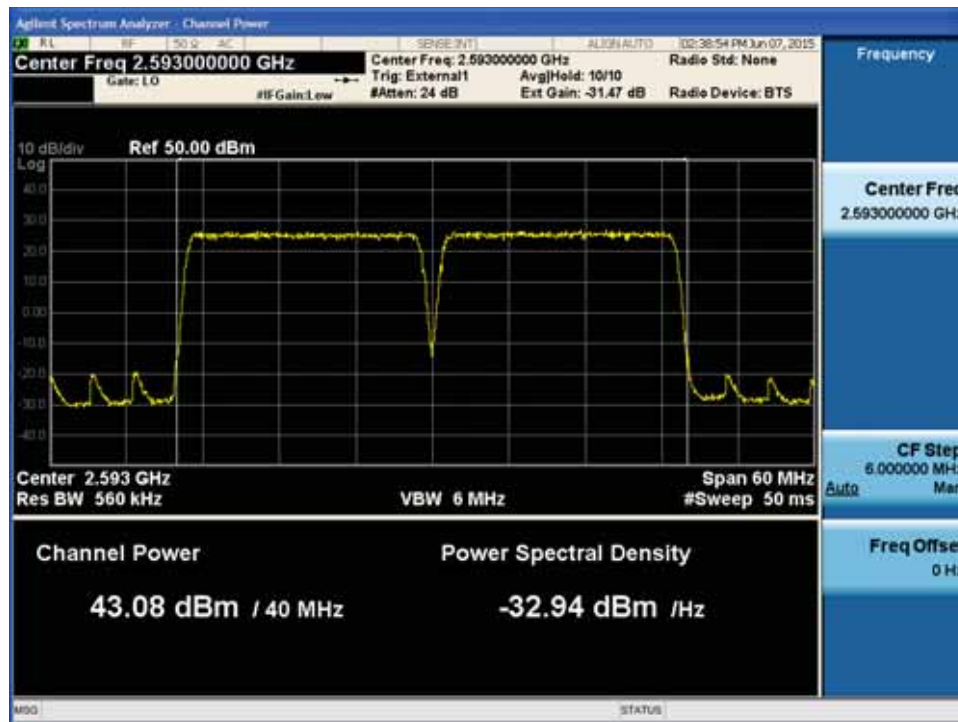


5.7.25. Plot Data for Output Port 4 (Conducted Output Power)

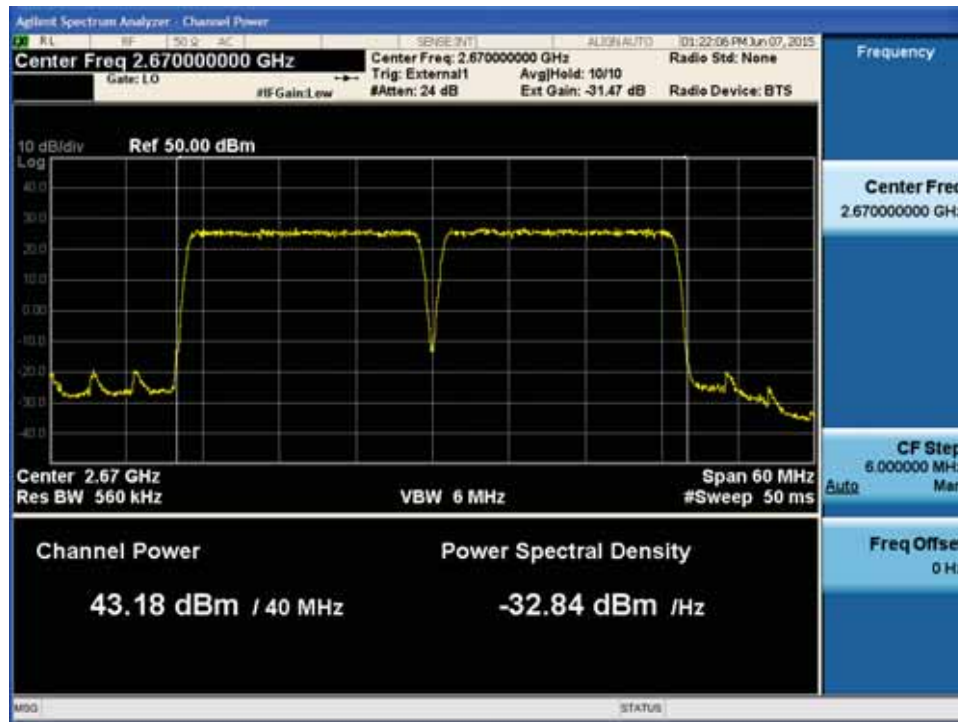
(QPSK Low Channel)



(QPSK Middle Channel)



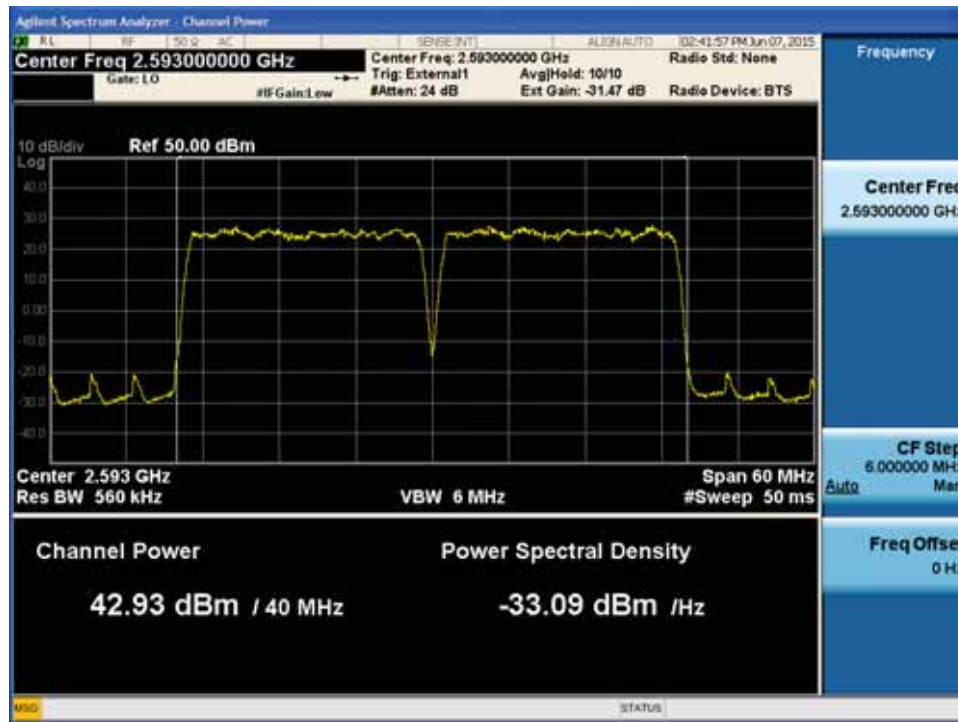
(QPSK High Channel)



(16QAM Low Channel)



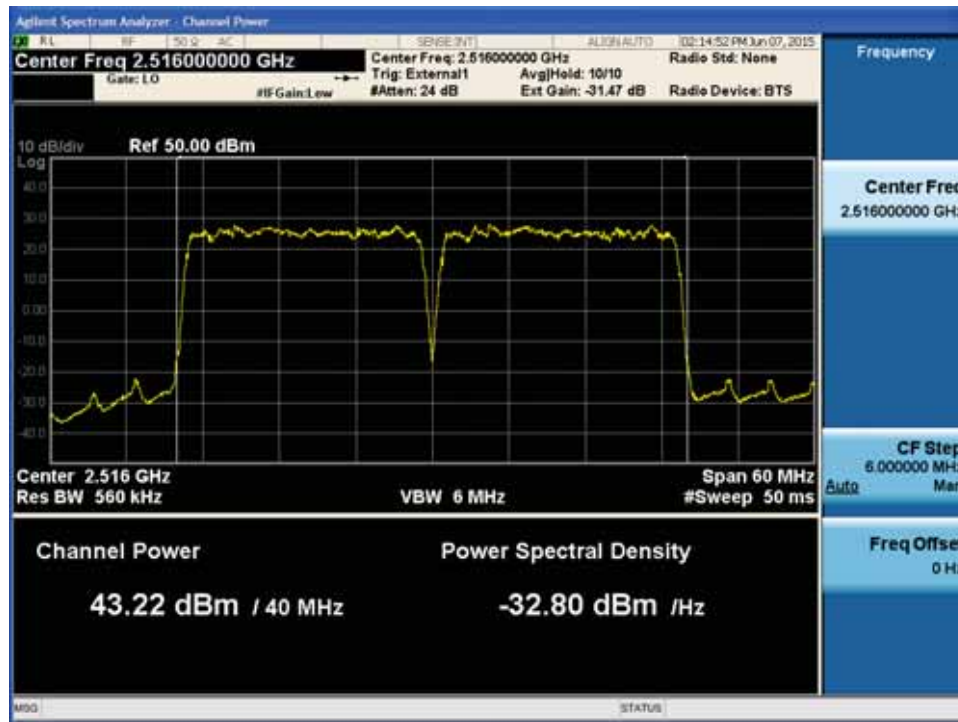
(16QAM Middle Channel)



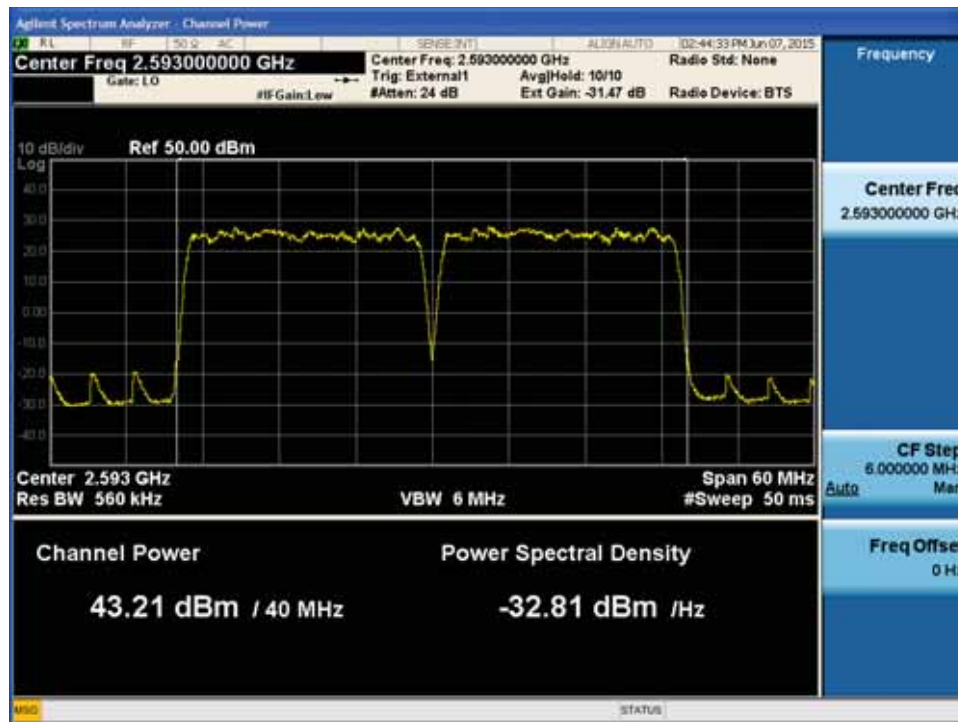
(16QAM High Channel)



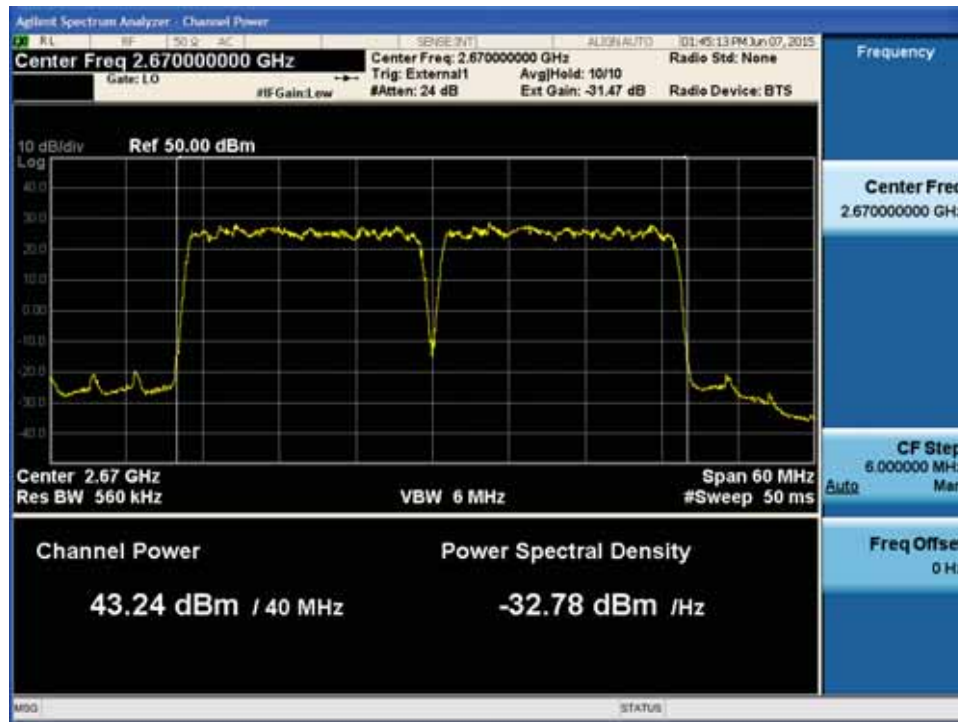
(64QAM Low Channel)



(64QAM Middle Channel)



(64QAM High Channel)

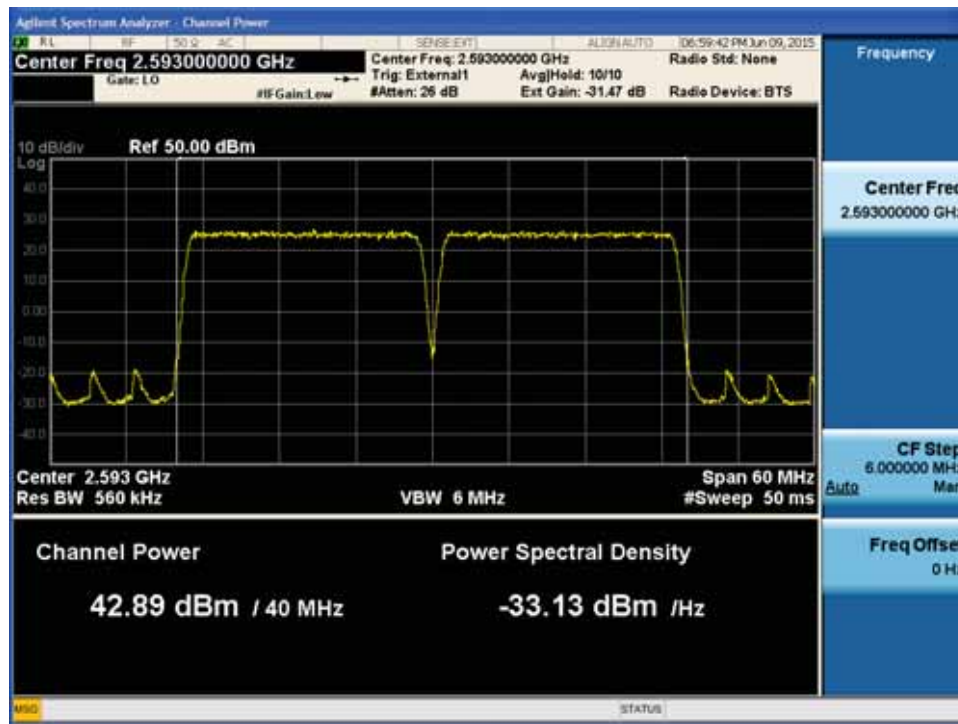


5.7.26. Plot Data for Output Port 5 (Conducted Output Power)

(QPSK Low Channel)



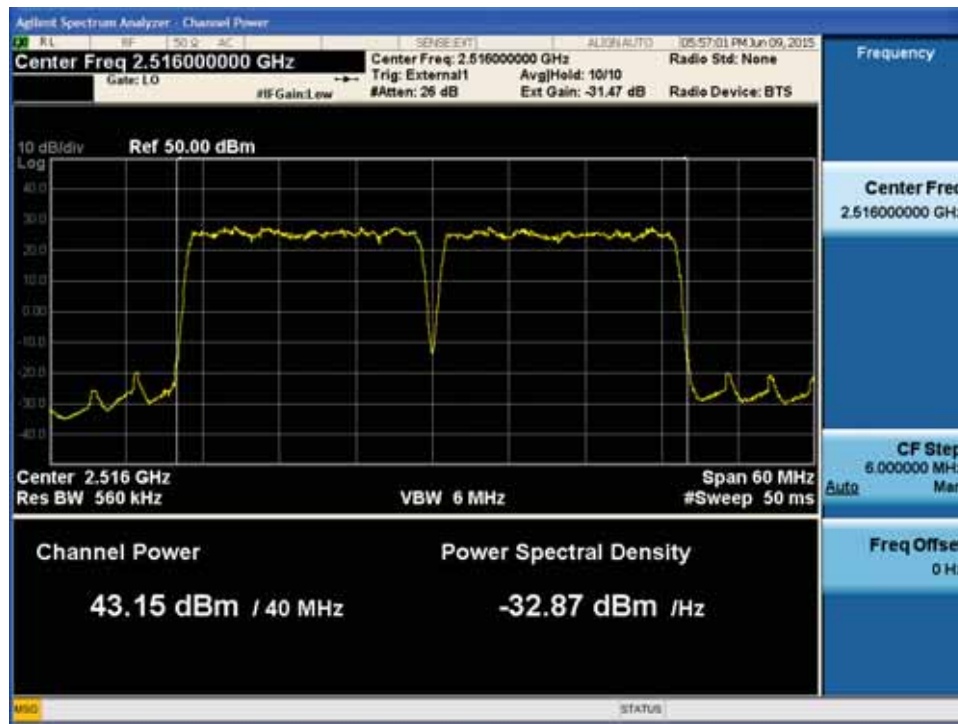
(QPSK Middle Channel)



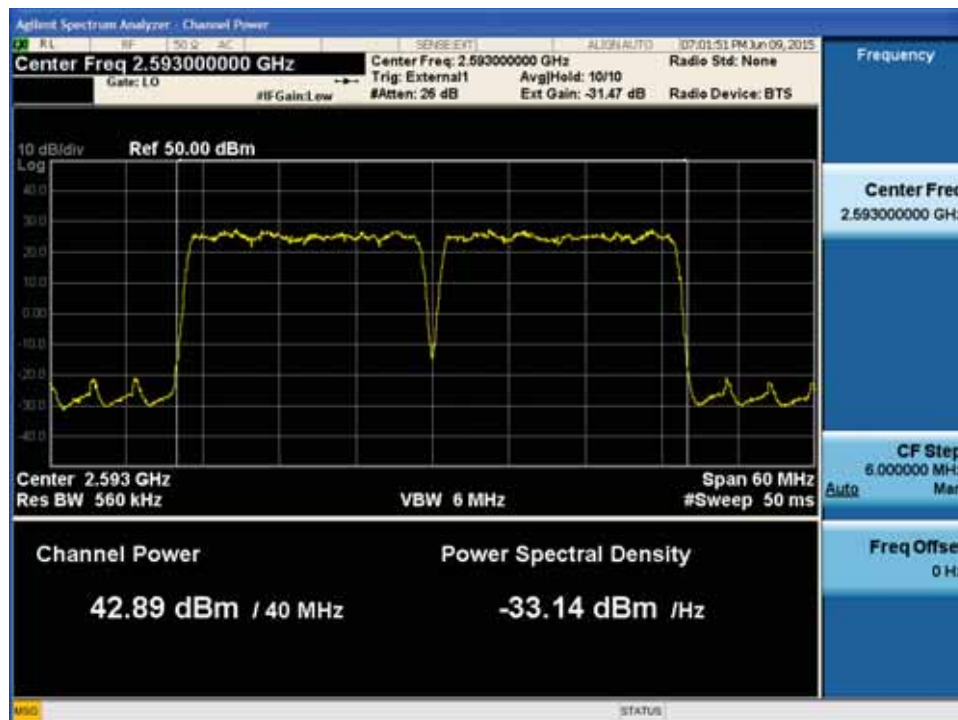
(QPSK High Channel)



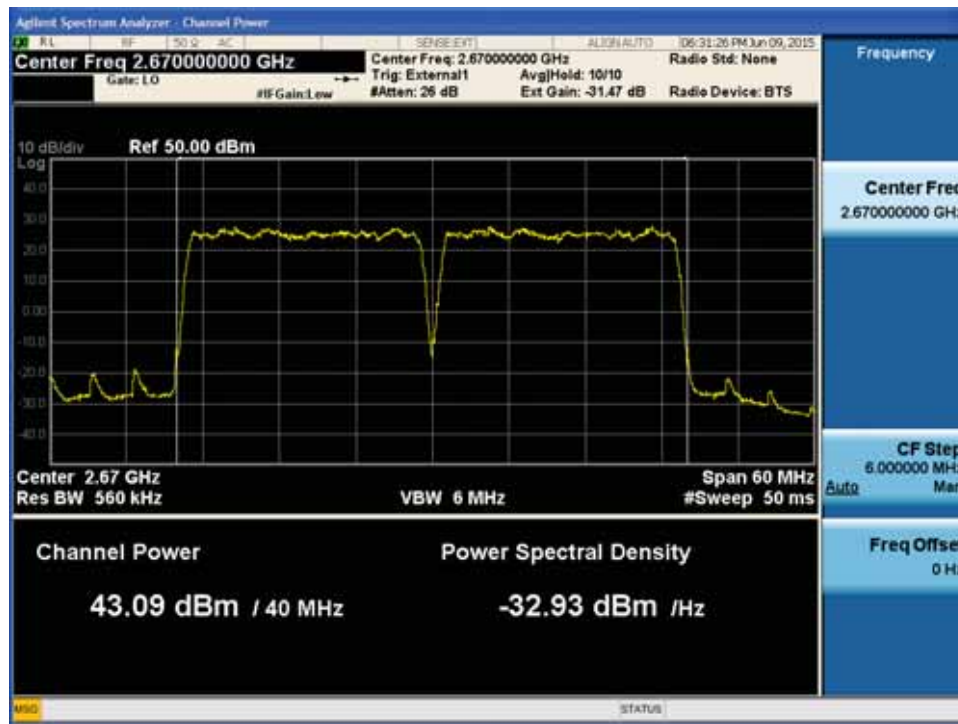
(16QAM Low Channel)



(16QAM Middle Channel)



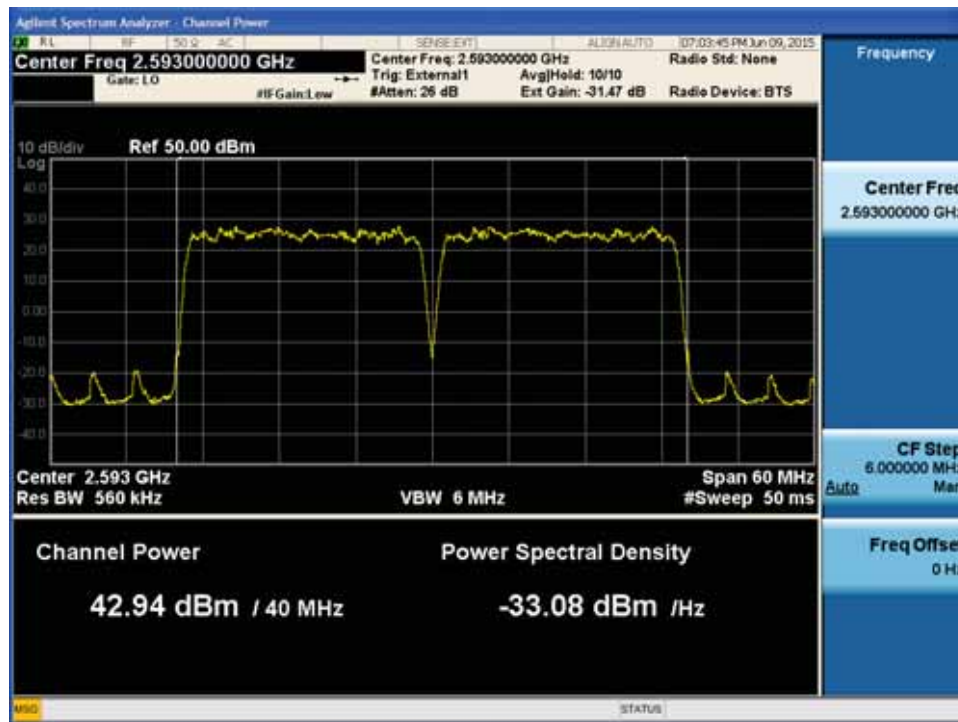
(16QAM High Channel)



(64QAM Low Channel)



(64QAM Middle Channel)

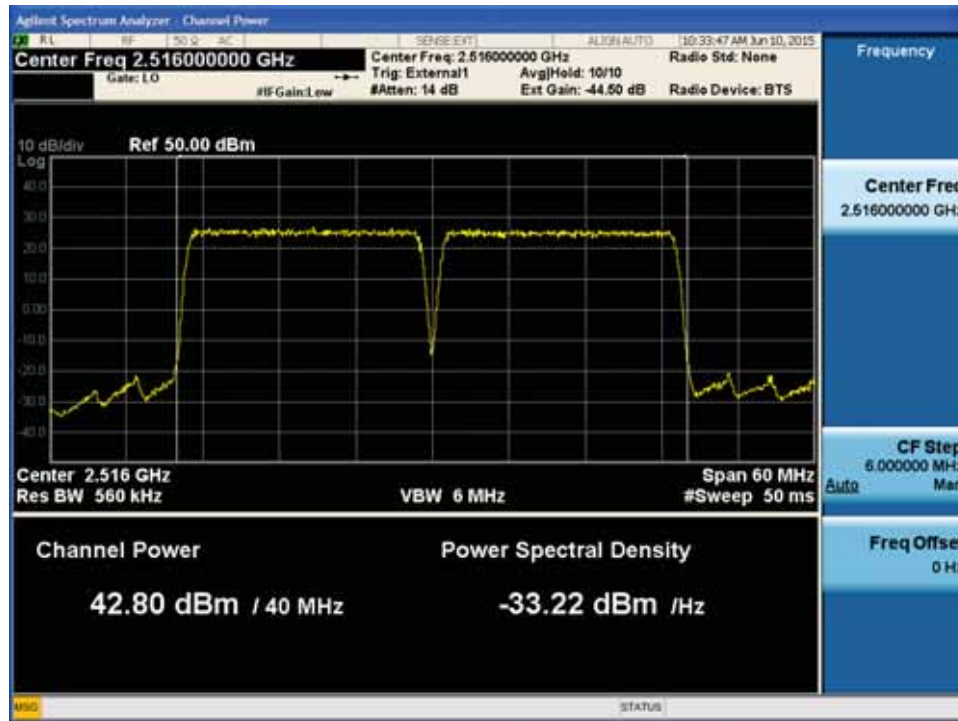


(64QAM High Channel)

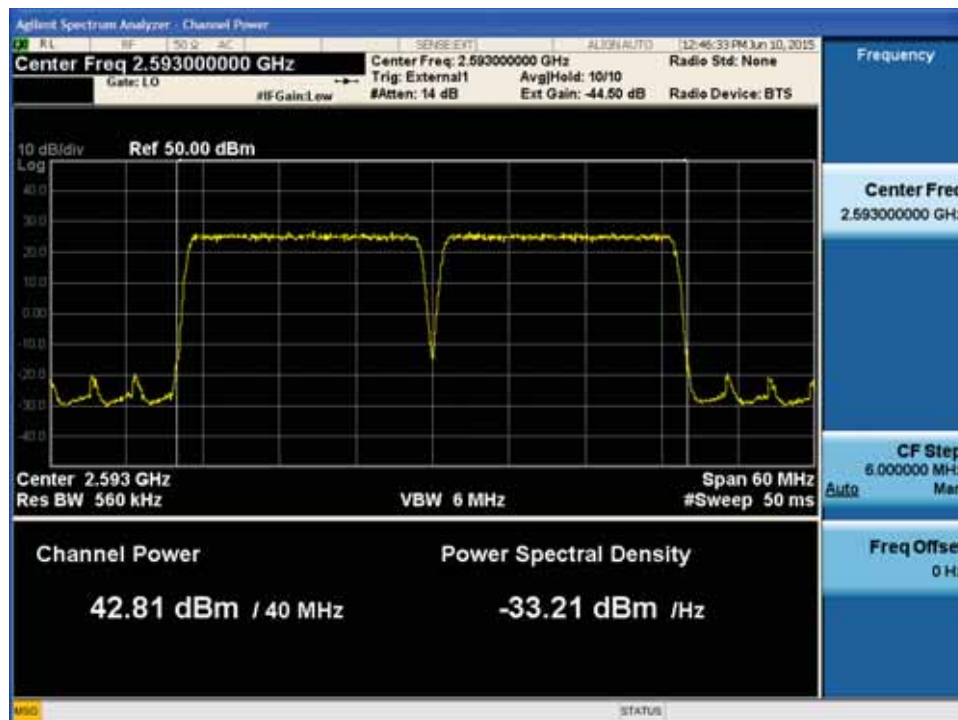


5.7.27. Plot Data for Output Port 6 (Conducted Output Power)

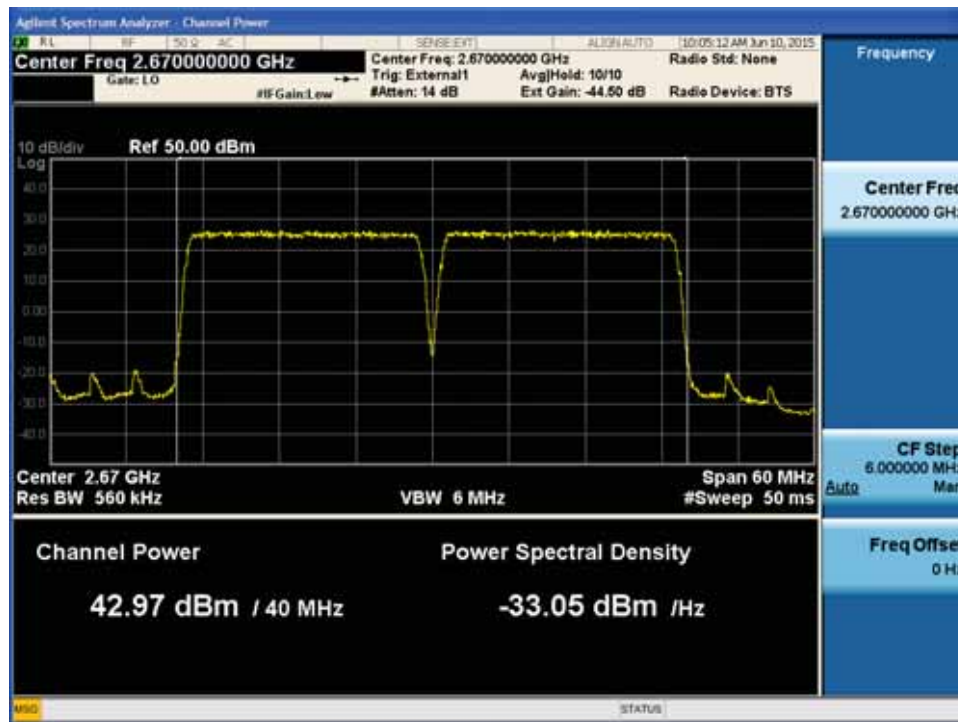
(QPSK Low Channel)



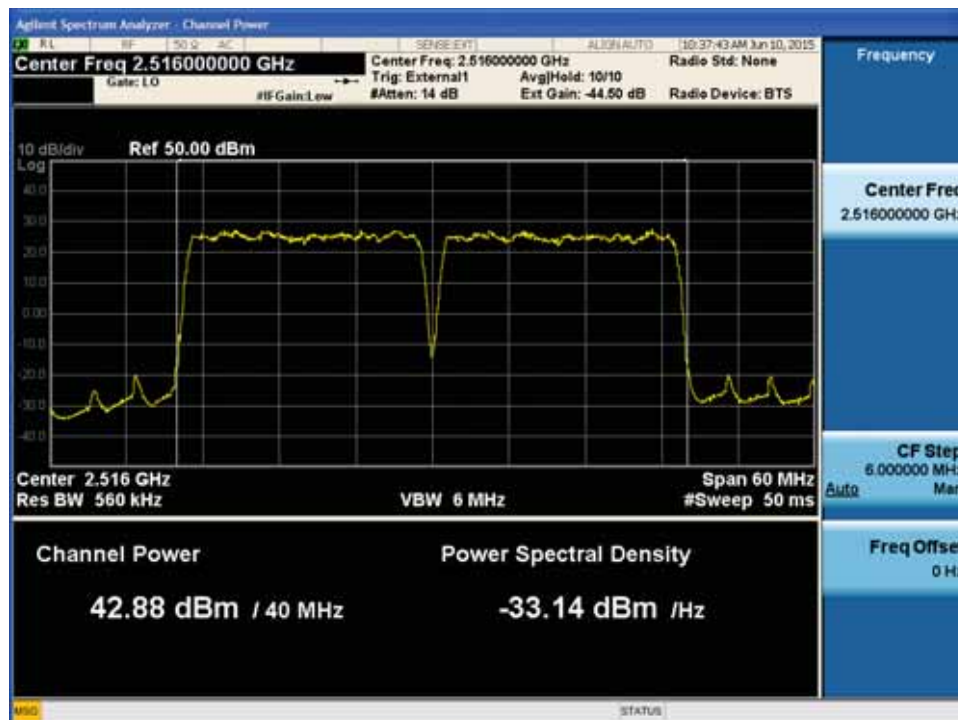
(QPSK Middle Channel)



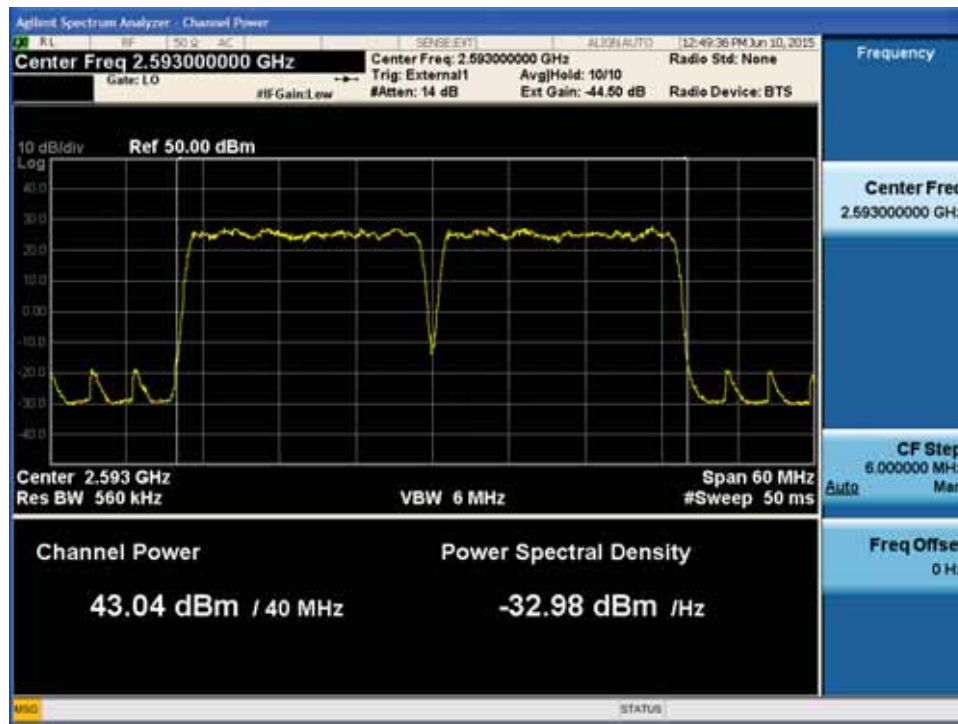
(QPSK High Channel)



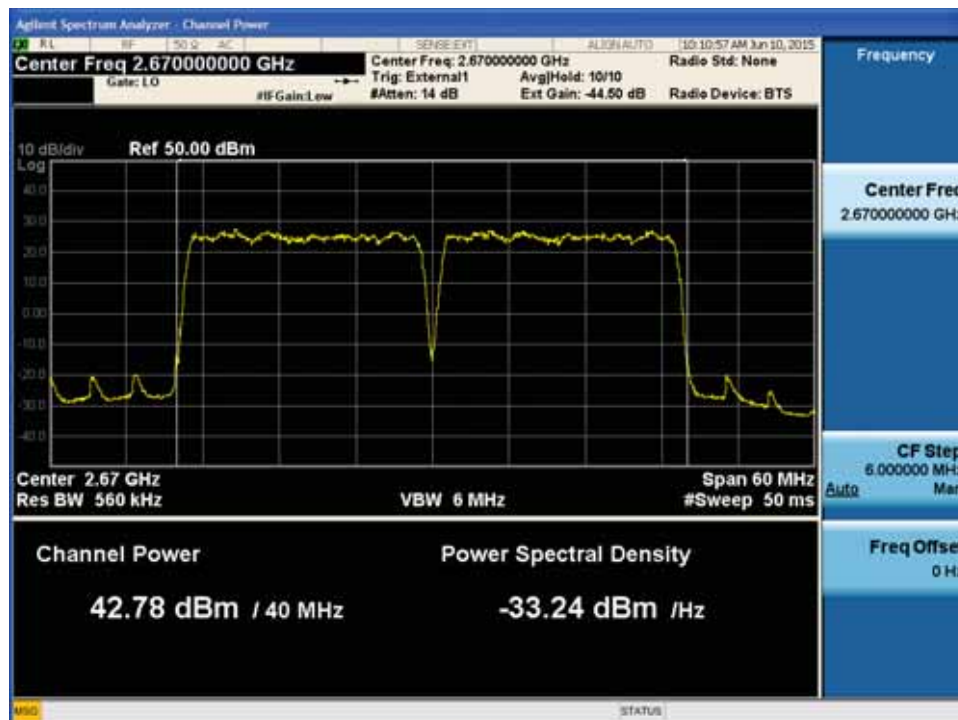
(16QAM Low Channel)



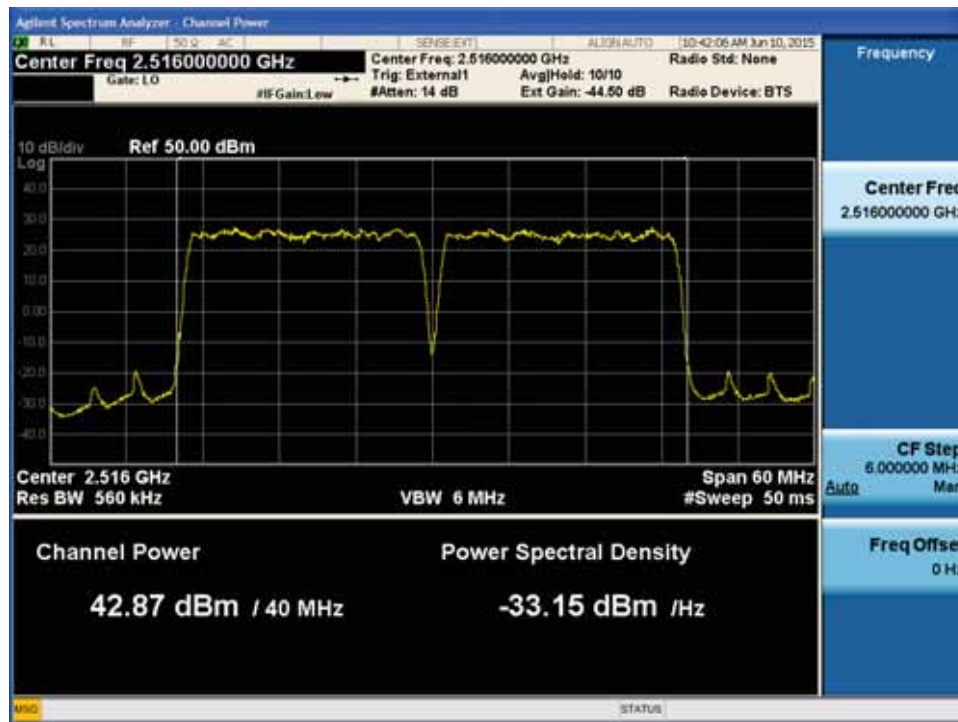
(16QAM Middle Channel)



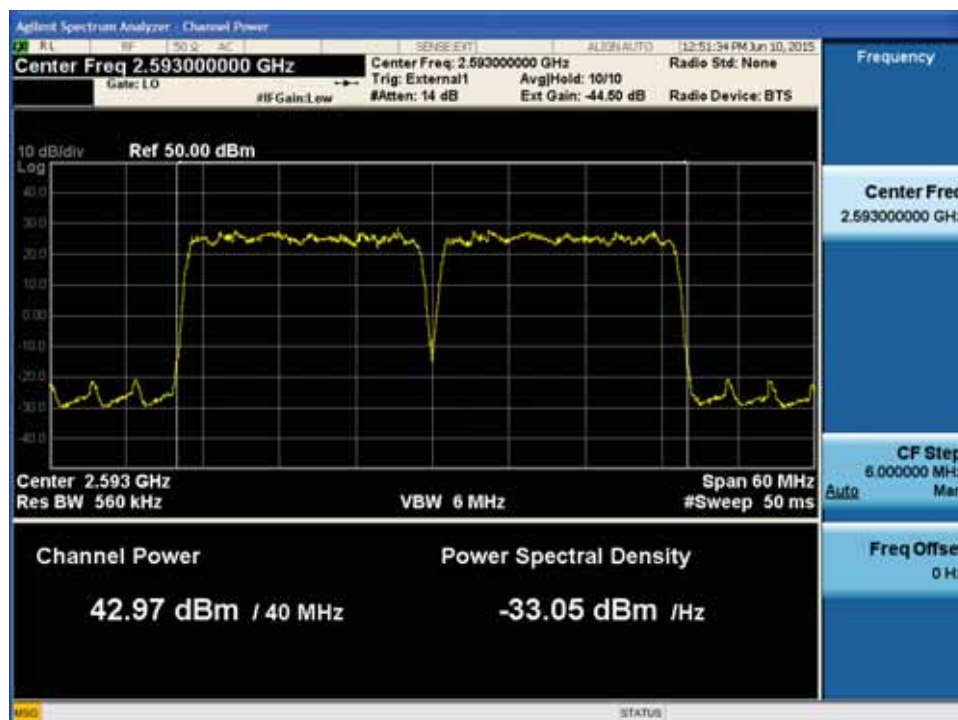
(16QAM High Channel)



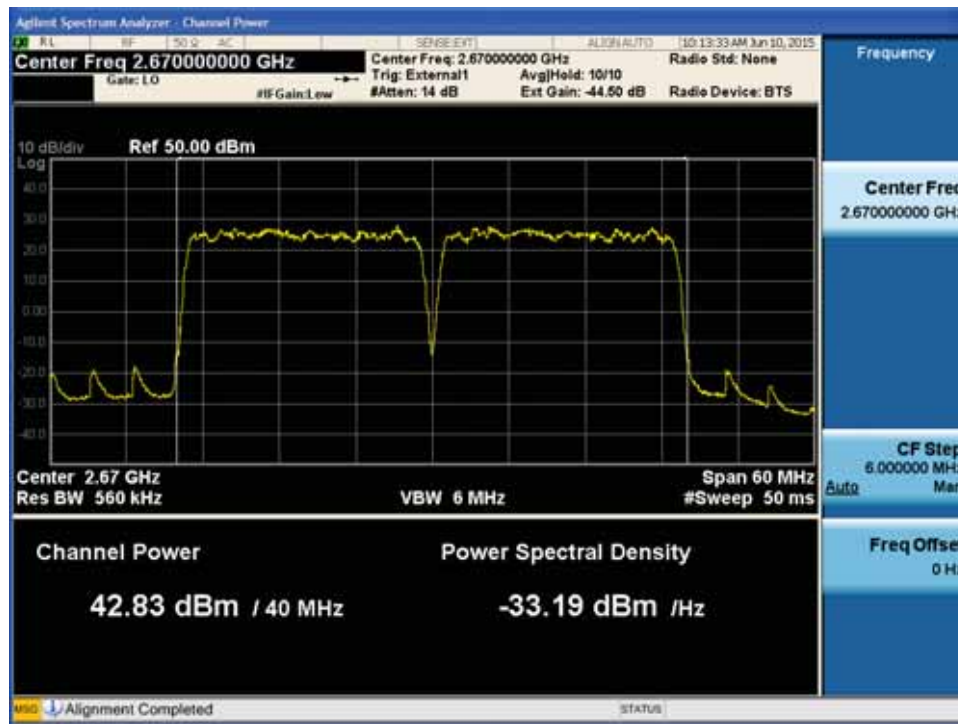
(64QAM Low Channel)



(64QAM Middle Channel)



(64QAM High Channel)



5.7.28. Plot Data for Output Port 7 (Conducted Output Power)

(QPSK Low Channel)

