ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247

OF

Product Name:	**Tablet Computer**
Brand Name:	**FUJITSU**
Model No.:	**R726**
Model Difference:	**N/A**
FCC ID:	**EJE-WB0098**
IC:	**337J-WB0098**
Report No.:	**E2/2016/10060**
Issue Date:	**Apr. 01, 2016**
FCC Rule Part:	**§15.247, Cat: DTS**
IC Rule Part:	**RSS-247 issue 1 :2015**
Prepared for:	**FUJITSU LIMITED** **4-1-1, Kamikodanaka, Nakahara-ku, Kawasa-ki-shi, Kanagawa, 211-8588, Japan**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333**

Testing Laboratory
0513

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VERIFICATION OF COMPLIANCE

Applicant:	FUJITSU LIMITED 4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588, Japan
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R726
Model Difference:	N/A
FCC ID:	EJE-WB0098
IC:	337J-WB0098
Report Number:	E2/2016/10060
Date of test:	Jan. 11, 2016 ~ Apr. 01, 2016
Date of EUT Received:	Jan. 11, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Jerry Lu	***Date:***	Apr. 01, 2016
	Jerry Lu / Sr. Engineer		
Prepared By:	Allen Tsai	***Date:***	Apr. 01, 2016
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Approved By:	Jim Chang	***Date:***	Apr. 01, 2016
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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/10060	Rev.00	Initial creation of document	Apr. 01, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Tablet Computer	
Brand Name:	FUJITSU	
Model No.:	R726	
Model Difference:	N/A	
NFC Module:	Model No.: RC-S650/IA, Supplier: Sony Corporation	
BT / WLAN Module:	Model No.: 8260D2W, Supplier: Intel Mobile Communications France S.A.S	
Product SW/HW version:	10.0.10240 Build 10240 / AX1	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: FPB0328; Supplier: Getac
	Adapter:	Model No.: ADP-65MD B, Supplier: Delta

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2472	11	b: 17.25dBm b: 14.25dBm (EIRP) g: 20.85dBm g: 14.20dBm (EIRP)	b: 10M1G1D g:15M3D1D	DSSS, OFDM
11n	HT20 2412-2472	11	HT20:23.70dBm (MIMO Chain 0+1) HT20:20.10dBm (MIMO Chain 0+1) (EIRP)	HT20:17M6D1D	OFDM
11n	HT40 2422-2462	7	HT40: 22.59dBm (MIMO Chain 0+1) HT40: 20.21dBm (MIMO Chain 0+1) (EIRP)	HT40:35M1D1D	OFDM
Antenna Designation:		PIFA Antenna, Main Antenna Model No.: WA-P-LB-03-059 Gain: -0.88dBi Aux antenna model No.: WA-P-LB-02-301 Gain: -0.74dBi			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: up to 144Mbps 802.11 n_40MHz: up to 300Mbps			

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting Wi-Fi 802.11a/b/g/n/ac and Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R726
Model Difference:	N/A
FCC ID:	EJE-WB0098
IC :	337J-WB0098
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.1 dual mode
NFC Specification	NFC

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r04

FCC KDB 662911 D01 Multiple Transmitter Output V02r01

Canada RSS-247 issue 1 May 2015

Canada RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

(TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 3.5dB and 10dB attenuator.

SISO mode offset:

= RF cable loss (dB)+ attenuation factor(dB)=11(dB)

MIMO mode offset:

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =14(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Conducted Emission configuration

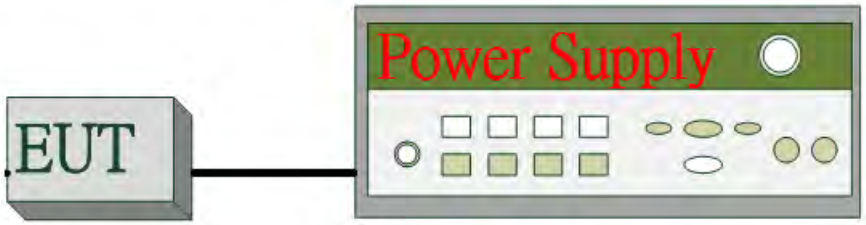

Fig. 2-2 Conduction & Radiated Emission configuration

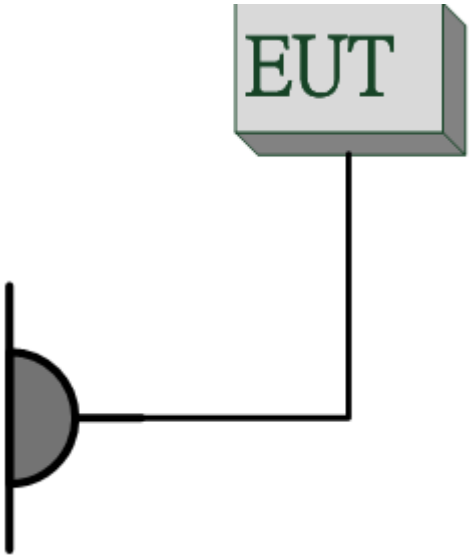

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	DRTU	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shield

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3) RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d) RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e) RSS-247 §5.2(2)	Power Spectral Density	Compliant
§15.203 §15.247(b) RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

7 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	8	2447 MHz
4	2427 MHz	9	2452 MHz
5	2432 MHz	10	2457 MHz
6	2437 MHz	11	2462 MHz
7	2442 MHz		

4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	Aux
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux
802.11n (HT20)	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 11	3, 6, 9,11,12	OFDM	MCS 8	MIMO

Note:
The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 13	1, 6, 11,12,13	DSSS	1	Aux
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux
802.11n (HT20)	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 11	3, 6, 9,11,12	OFDM	MCS 8	MIMO

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Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 3.01dBi (peak spectral density, conducted spurious emission)

Gain that is combined with different magnitude of two antennas:

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

- $$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : **Horizontal**)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note
1.The lower limit shall apply at the transition frequencies
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 3	101311	06/18/2015	06/17/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2015	02/06/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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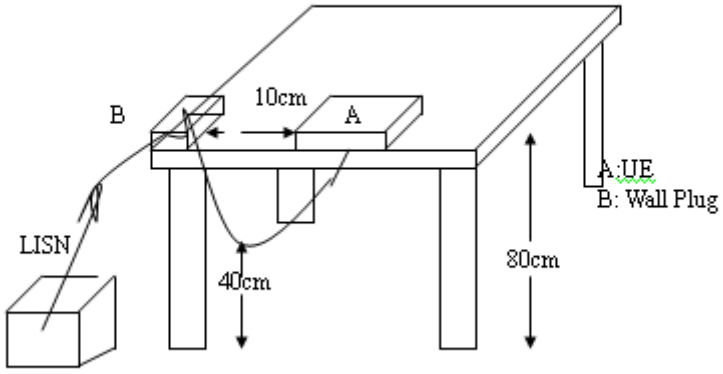
6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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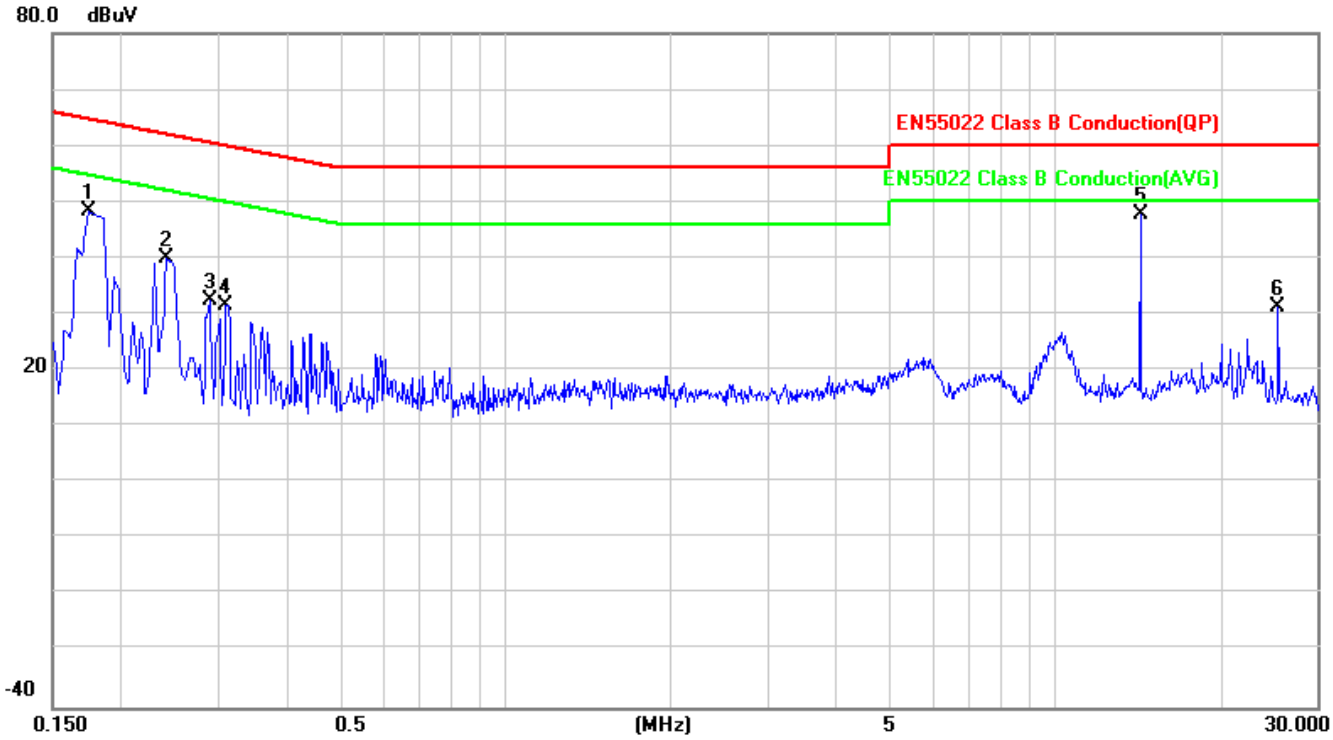
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Jan. 20, 2016
Temperature:	21 ℃	Humidity:	47%	Test By:	Ashton
Model No.:	ADP-65MD B				



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1740	38.62	9.66	48.28	64.77	-16.49	peak	
2		0.2420	30.16	9.68	39.84	62.03	-22.19	peak	
3		0.2900	22.81	9.72	32.53	60.52	-27.99	peak	
4		0.3100	21.80	9.74	31.54	59.97	-28.43	peak	
5	*	14.2980	38.27	9.61	47.88	60.00	-12.12	peak	
6		25.5820	21.69	9.48	31.17	60.00	-28.83	peak	

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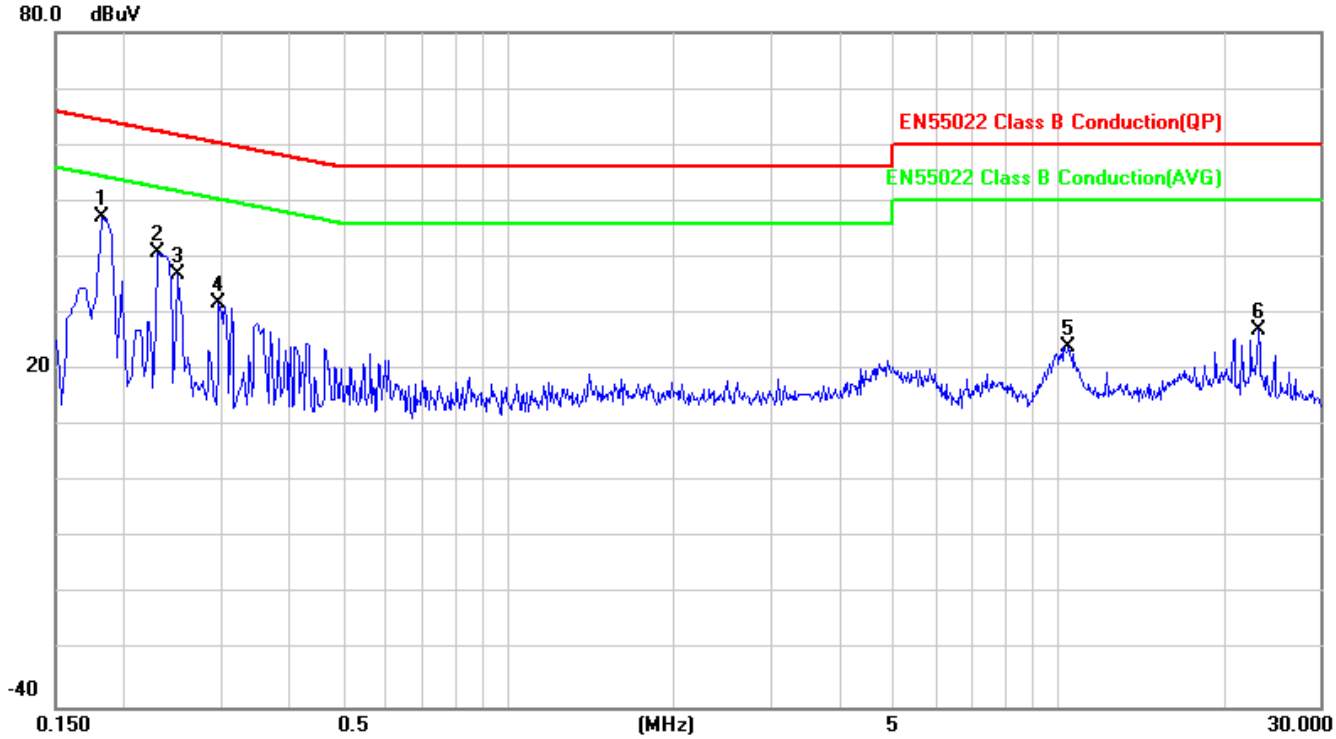

No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1820	37.38	9.65	47.03	64.39	-17.36	peak	
2		0.2300	31.06	9.66	40.72	62.45	-21.73	peak	
3		0.2500	27.33	9.68	37.01	61.76	-24.75	peak	
4		0.2980	22.24	9.72	31.96	60.30	-28.34	peak	
5		10.4980	14.38	9.73	24.11	60.00	-35.89	peak	
6		23.2500	17.55	9.46	27.01	60.00	-32.99	peak	

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	98.88	0.05
802.11g	98.56	0.06
802.11n_20	96.43	0.16
802.11n_40	93.01	0.31

b = 98.88%, g = 98.56%,n_ht_20 = 96.43%, n_ht40 = 93.01%

Duty Cycle Factor: 10 * log(1/0.9888) = 0.05
Duty Cycle Factor: 10 * log(1/0.9856) = 0.06
Duty Cycle Factor: 10 * log(1/0.9643) = 0.16
Duty Cycle Factor: 10 * log(1/0.9301) = 0.31

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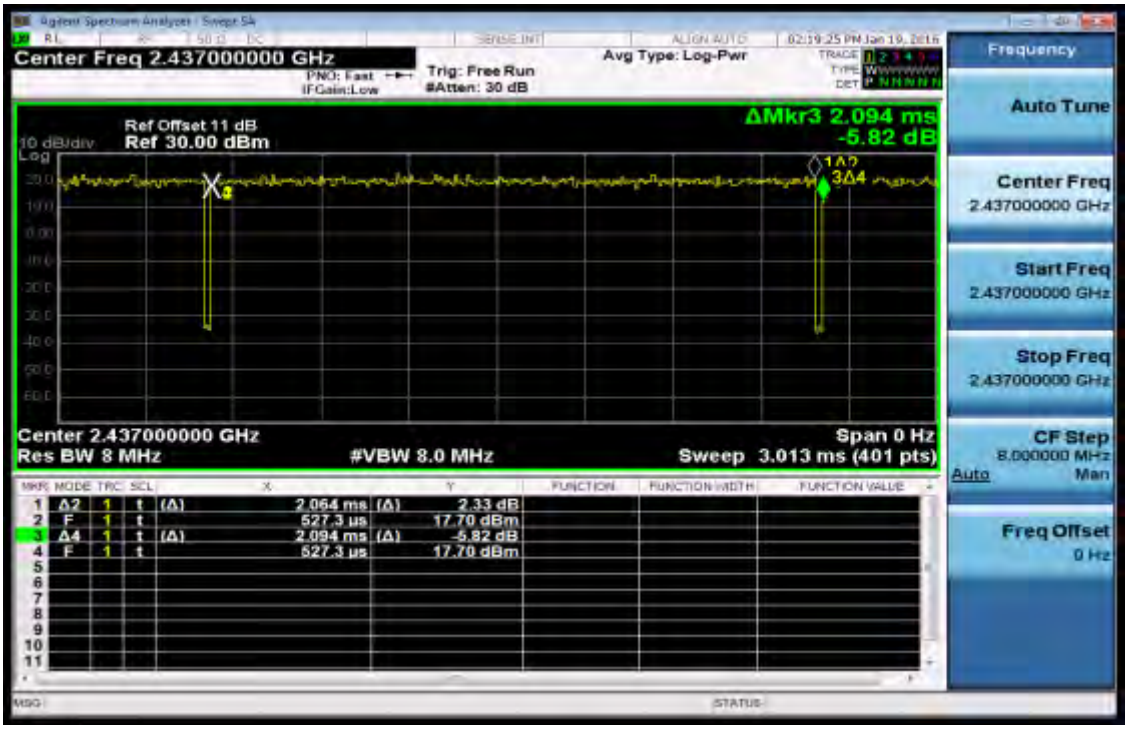
7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b

802.11 g



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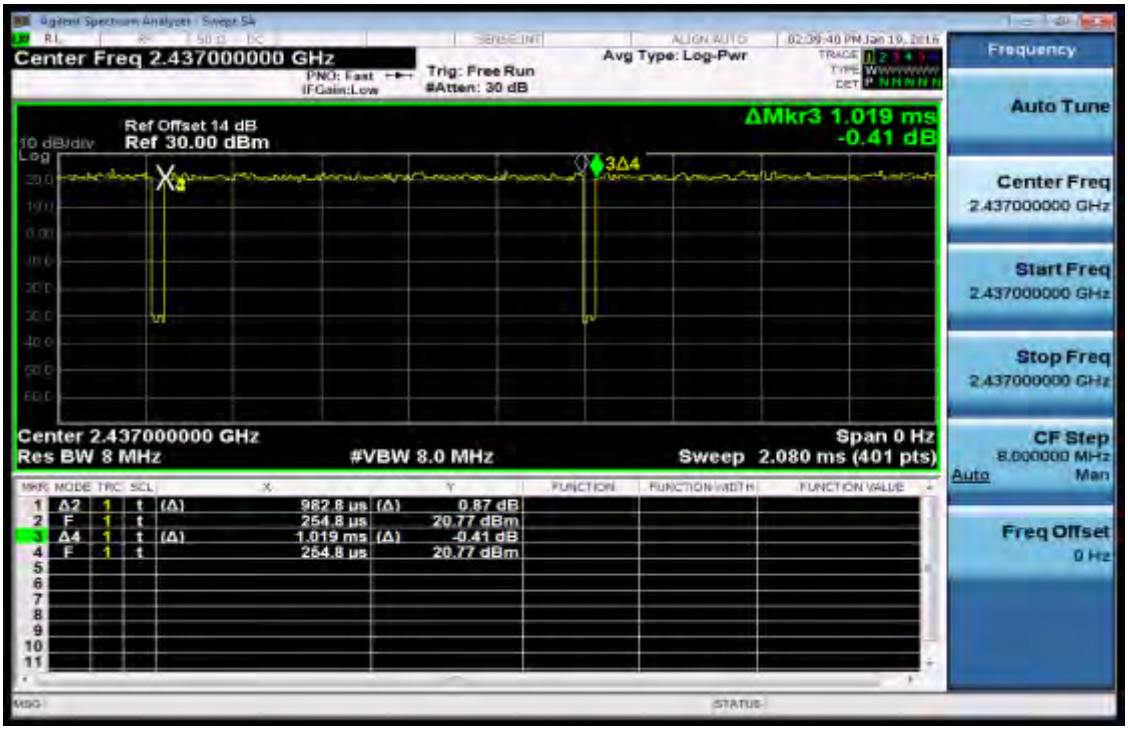
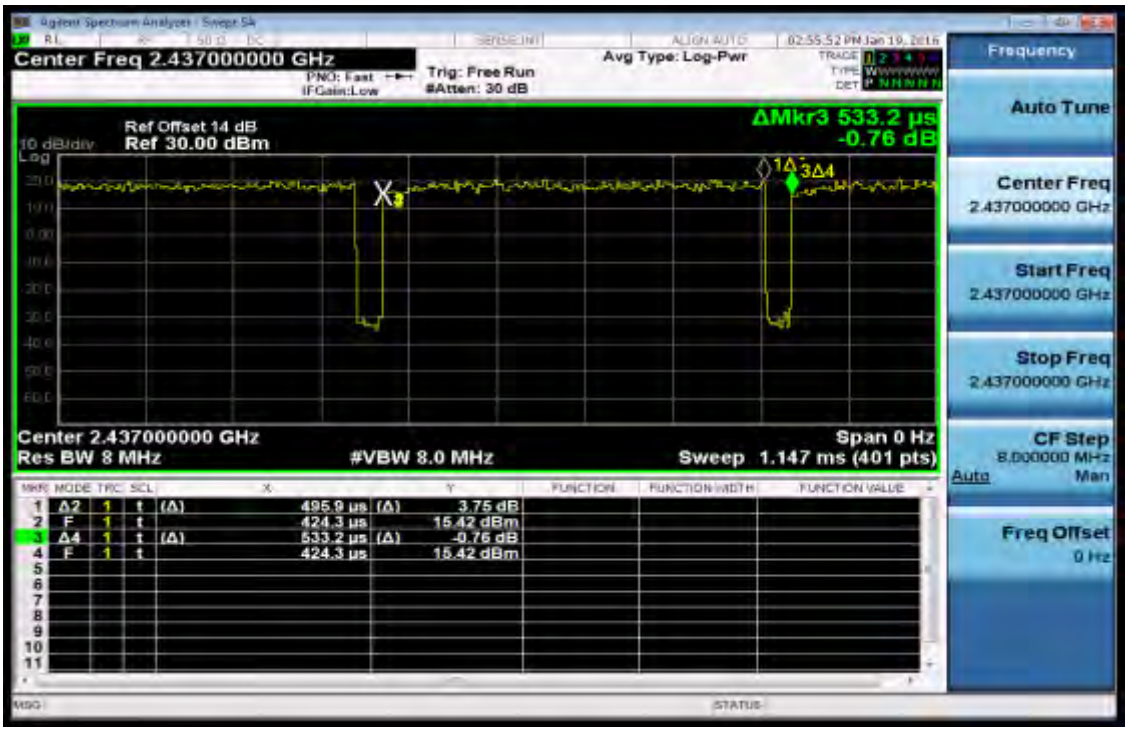
802.11 n_20 MHz



802.11 n_40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

Per RSS-247 §5.4(4)

For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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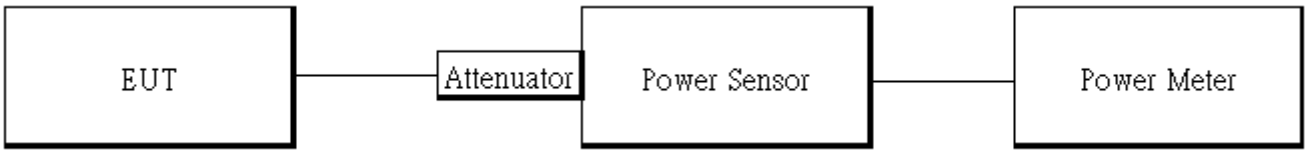
8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

   Power Meter:

   It is used as the auxiliary test equipment to conduct the output power measurement.
4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 Measurement Result

802.11b Aux						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	17.04	50.58	1 Watt = 30.00 dBm	PASS
6	2437	1	**17.25**	**53.09**	1 Watt = 30.00 dBm	PASS
11	2462	1	17.19	52.36	1 Watt = 30.00 dBm	PASS
12	2467	1	16.80	47.86	1 Watt = 30.00 dBm	PASS
13	2472	1	11.78	15.07	1 Watt = 30.00 dBm	PASS
802.11b Aux						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	**14.99**	**31.55**	1 Watt = 30.00 dBm	PASS
6	2437	1	14.97	31.41	1 Watt = 30.00 dBm	PASS
11	2462	1	14.96	31.33	1 Watt = 30.00 dBm	PASS
12	2467	1	14.97	31.41	1 Watt = 30.00 dBm	PASS
13	2472	1	9.97	9.93	1 Watt = 30.00 dBm	PASS

802.11g Aux						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	20.80	120.23	1 Watt = 30.00 dBm	PASS
6	2437	6	**20.85**	**121.62**	1 Watt = 30.00 dBm	PASS
11	2462	6	20.65	116.14	1 Watt = 30.00 dBm	PASS
12	2467	6	18.81	76.03	1 Watt = 30.00 dBm	PASS
13	2472	6	6.69	4.67	1 Watt = 30.00 dBm	PASS
802.11g Aux						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	14.92	31.05	1 Watt = 30.00 dBm	PASS
6	2437	6	**14.94**	**31.19**	1 Watt = 30.00 dBm	PASS
11	2462	6	14.86	30.62	1 Watt = 30.00 dBm	PASS
12	2467	6	13.47	22.23	1 Watt = 30.00 dBm	PASS
13	2472	6	0.91	1.23	1 Watt = 30.00 dBm	PASS

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802.11n_20M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit			RESULT
			CHAIN 0	CHAIN 1						
1	2412	MCS8	18.91	19.47	22.21	166.32	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	20.56	20.82	**23.70**	**234.54**	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	20.51	20.75	23.64	231.31	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	15.95	16.98	19.51	89.24	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	4.85	5.84	8.38	6.89	1 Watt =	30.00	dBm	PASS

802.11n_20M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Limit			RESULT
			CHAIN 0	CHAIN 1						
1	2412	MCS8	13.23	13.49	16.37	43.37	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	14.57	14.90	17.75	59.54	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	14.76	14.87	**17.83**	**60.61**	1 Watt =	30.00	dBm	PASS
12	2467	MCS8	10.39	11.18	13.81	24.06	1 Watt =	30.00	dBm	PASS
13	2472	MCS8	-0.95	-0.15	2.48	1.77	1 Watt =	30.00	dBm	PASS

802.11n_40M MIMO										
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit			RESULT
			CHAIN 0	CHAIN 1						
3	2422	MCS8	17.47	17.95	20.73	118.22	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	19.35	19.80	**22.59**	**181.60**	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	17.75	18.32	21.05	127.49	1 Watt =	30.00	dBm	PASS
10	2457	MCS8	15.20	16.04	18.65	73.29	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	1.98	1.54	4.78	3.00	1 Watt =	30.00	dBm	PASS

802.11n_40M MIMO										
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Total Avg. Output Power (mW)	Limit			RESULT
			CHAIN 0	CHAIN 1						
3	2422	MCS8	12.87	13.05	15.97	39.55	1 Watt =	30.00	dBm	PASS
6	2437	MCS8	14.89	14.96	**17.94**	**62.16**	1 Watt =	30.00	dBm	PASS
9	2452	MCS8	11.95	12.01	14.99	31.55	1 Watt =	30.00	dBm	PASS
10	2457	MCS8	10.51	11.10	13.83	24.13	1 Watt =	30.00	dBm	PASS
11	2462	MCS8	-2.23	-2.95	0.44	1.11	1 Watt =	30.00	dBm	PASS

**** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.***

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EIRP Measurement:
802.11b (Aux)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	**14.99**	**31.550**	-0.74	14.25	36	PASS
6	2437	14.97	31.405	-0.74	14.23	36	PASS
11	2462	14.96	31.333	-0.74	14.22	36	PASS
12	2467	14.97	31.41	-0.74	14.23	36	PASS
13	2472	9.97	9.93	-0.74	9.23	36	PASS

802.11g (Aux)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	14.92	31.046	-0.74	14.18	36	PASS
6	2437	**14.94**	**31.189**	-0.74	14.20	36	PASS
11	2462	14.86	30.620	-0.74	14.12	36	PASS
12	2467	13.47	22.23	-0.74	12.73	36	PASS
13	2472	0.91	1.23	-0.74	0.17	36	PASS

802.11n_20M (MIMO)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	16.37	43.374	2.27	18.64	36	PASS
6	2437	17.75	59.545	2.27	20.02	36	PASS
11	2462	**17.83**	**60.613**	2.27	20.10	36	PASS
12	2467	13.81	24.044	2.27	16.08	36	PASS
13	2472	2.48	1.770	2.27	4.75	36	PASS

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802.11n_40M (MIMO)

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
3	2422	15.97	39.548	2.27	18.24	36	PASS
6	2437	**17.94**	**62.165**	2.27	20.21	36	PASS
9	2452	14.99	31.553	2.27	17.26	36	PASS
10	2457	13.83	24.129	2.27	16.10	36	PASS
11	2462	0.44	1.105	2.27	2.71	36	PASS

**** Note:*** EIRP = Average Power + Gain

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9 6DB & 99% BANDWIDTH MEASUREMENT

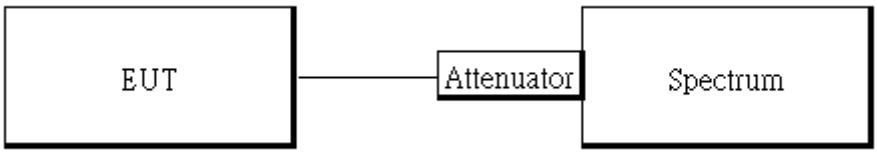
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:

   Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and –6dB (upper and lower) frequency.
6. For 99% Bandwidth:

   Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

6dB Bandwidth

802.11b Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	10090	> 500	PASS
2437	10080	> 500	PASS
2462	10070	> 500	PASS
2467	10100	> 500	PASS
2472	10100	> 500	PASS

802.11g Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15330	> 500	PASS
2437	15320	> 500	PASS
2462	15140	> 500	PASS
2467	16070	> 500	PASS
2472	16350	> 500	PASS

802.11_n20 Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16340	> 500	PASS
2437	16300	> 500	PASS
2462	16290	> 500	PASS
2467	17330	> 500	PASS
2472	17620	> 500	PASS

802.11_n20 Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16930	> 500	PASS
2437	16300	> 500	PASS
2462	17600	> 500	PASS
2467	17590	> 500	PASS
2472	17620	> 500	PASS

802.11_n40 Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	33860	> 500	PASS
2437	35090	> 500	PASS
2452	35080	> 500	PASS
2457	35140	> 500	PASS
2462	36120	> 500	PASS

802.11_n40 Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	33870	> 500	PASS
2437	35090	> 500	PASS
2452	35080	> 500	PASS
2457	35610	> 500	PASS
2462	35430	> 500	PASS

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99% Bandwidth

802.11b Aux	
Frequency (MHz)	99%Bandwidth (MHz)
2412	14.285
2437	14.979
2462	14.985
2467	14.920
2472	15.100

802.11g Aux	
Frequency (MHz)	99%Bandwidth (MHz)
2412	16.336
2437	16.345
2462	16.355
2467	16.325
2472	16.386

802.11n_20M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.720
2437	17.681
2462	17.527
2467	17.556
2472	17.607

802.11n_20M Aux	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.723
2437	17.634
2462	17.611
2467	17.682
2472	17.540

802.11n_40M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2422	35.958
2437	35.816
2452	36.171
2457	36.169
2462	35.468

802.11n_40M Aux	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.008
2437	36.034
2452	36.018
2457	36.095
2462	36.145

*Refer to next page for plots

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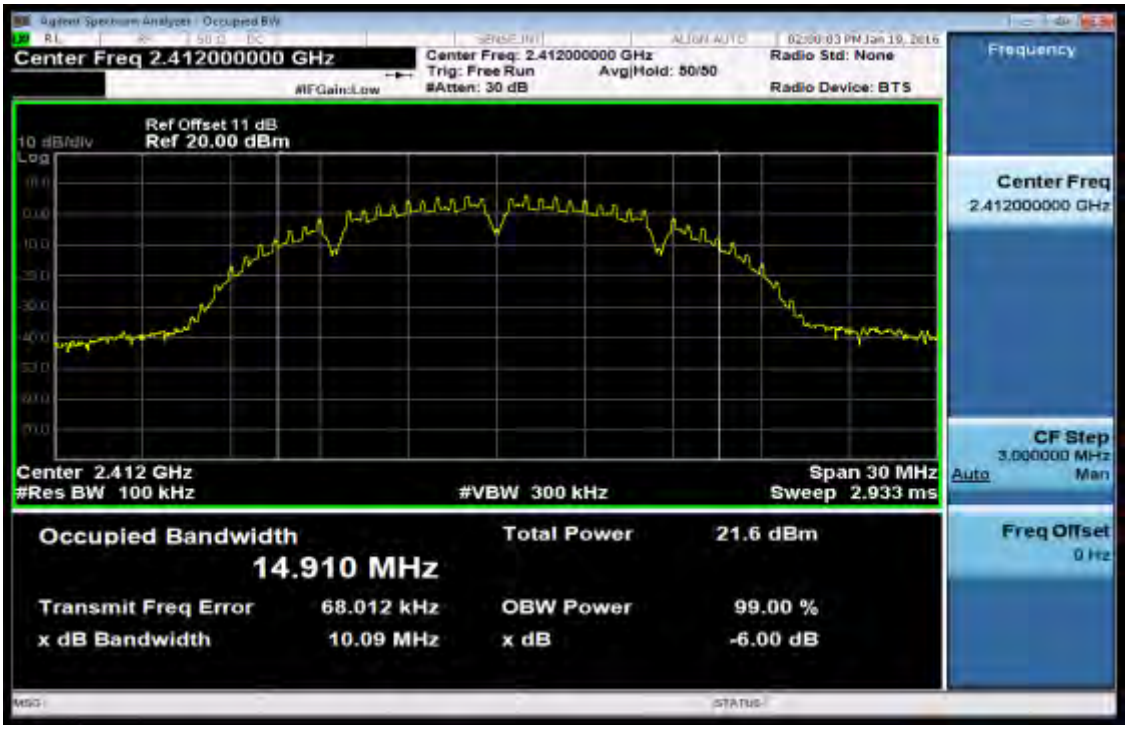
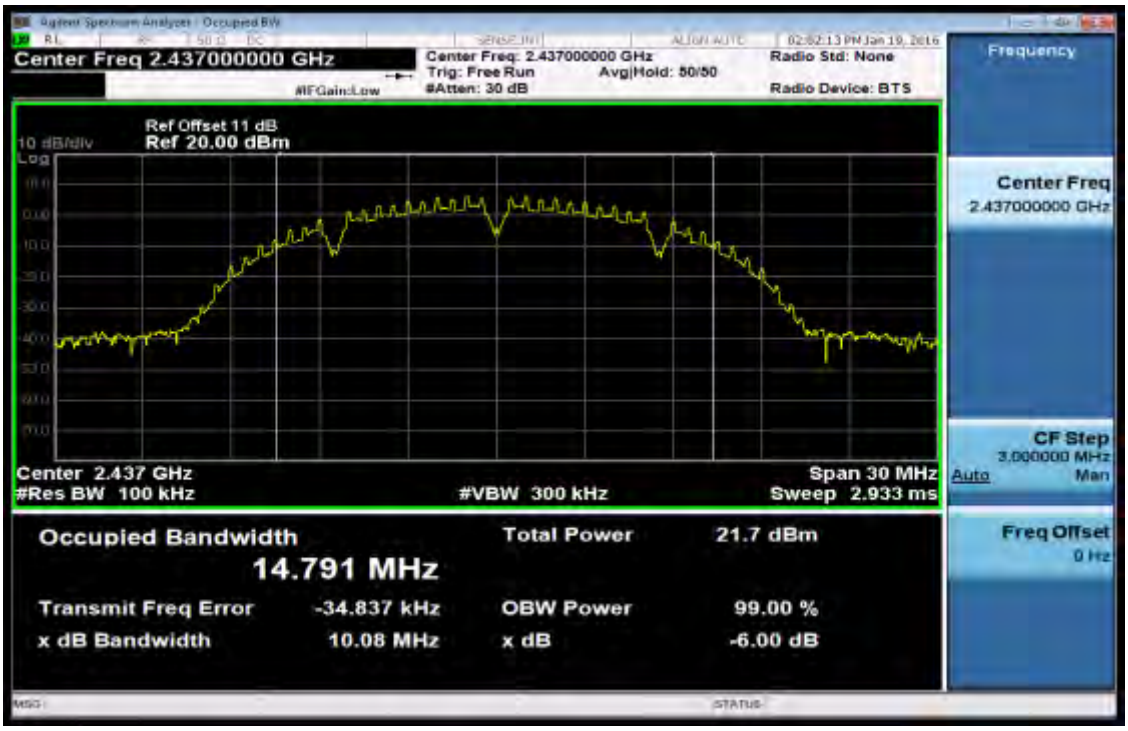
802.11b (Aux)
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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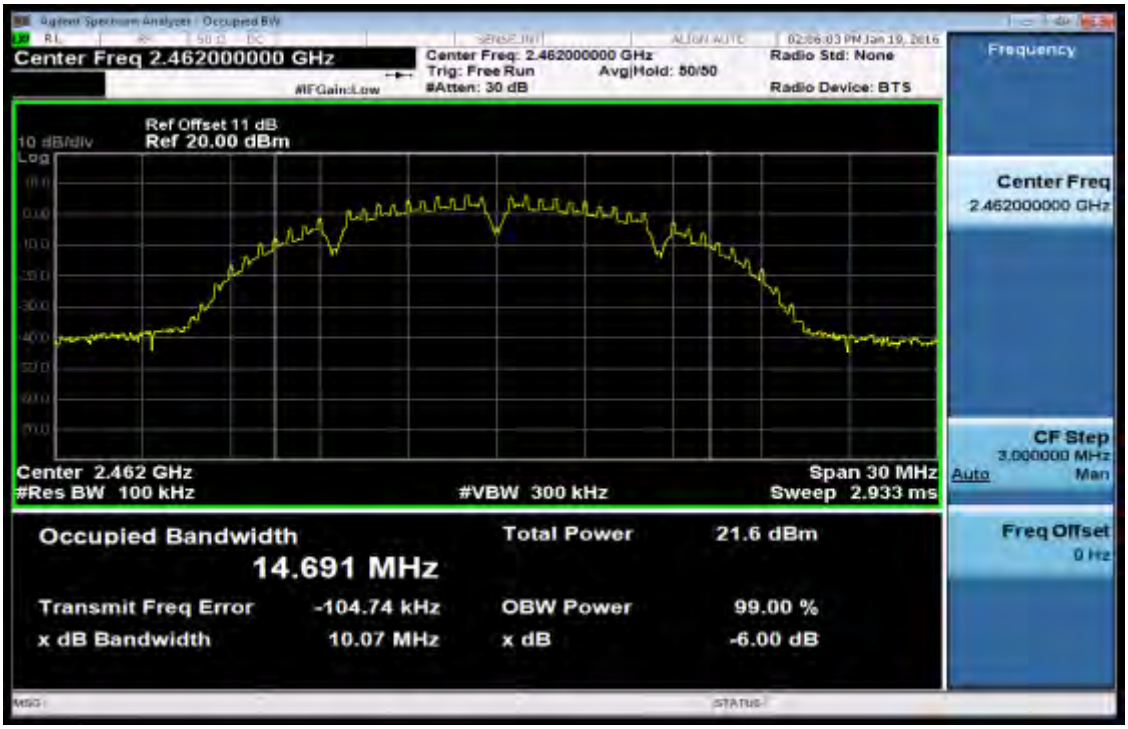
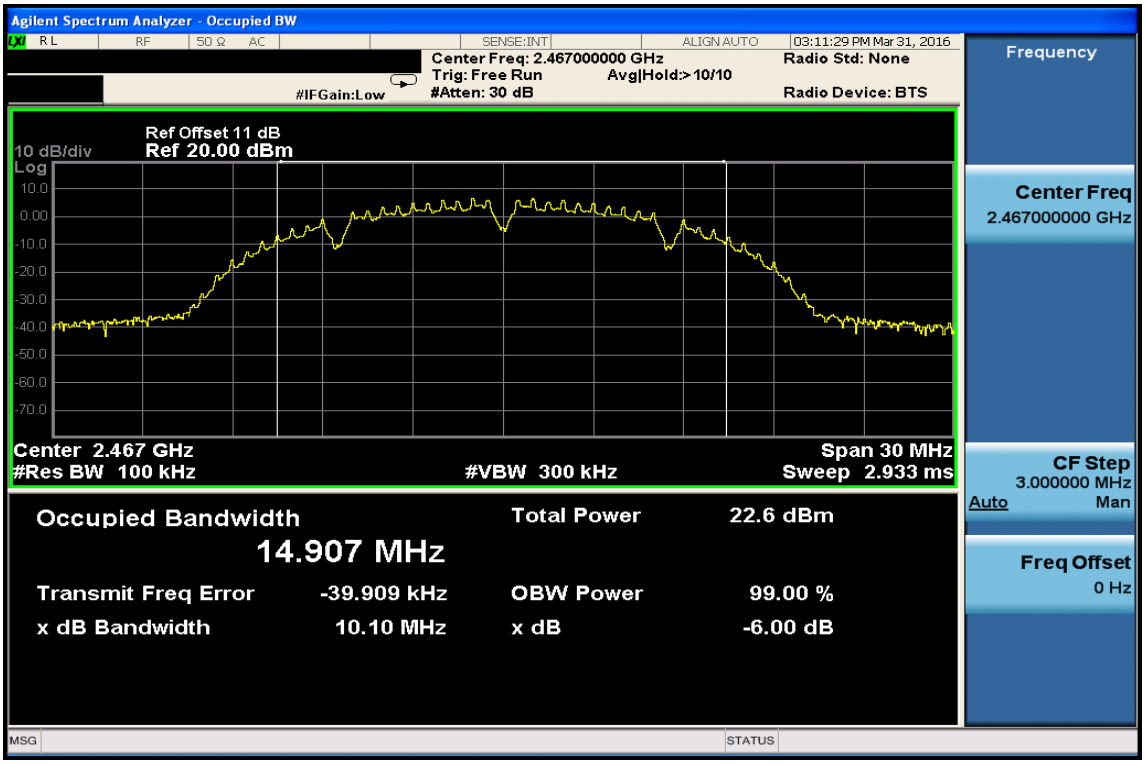
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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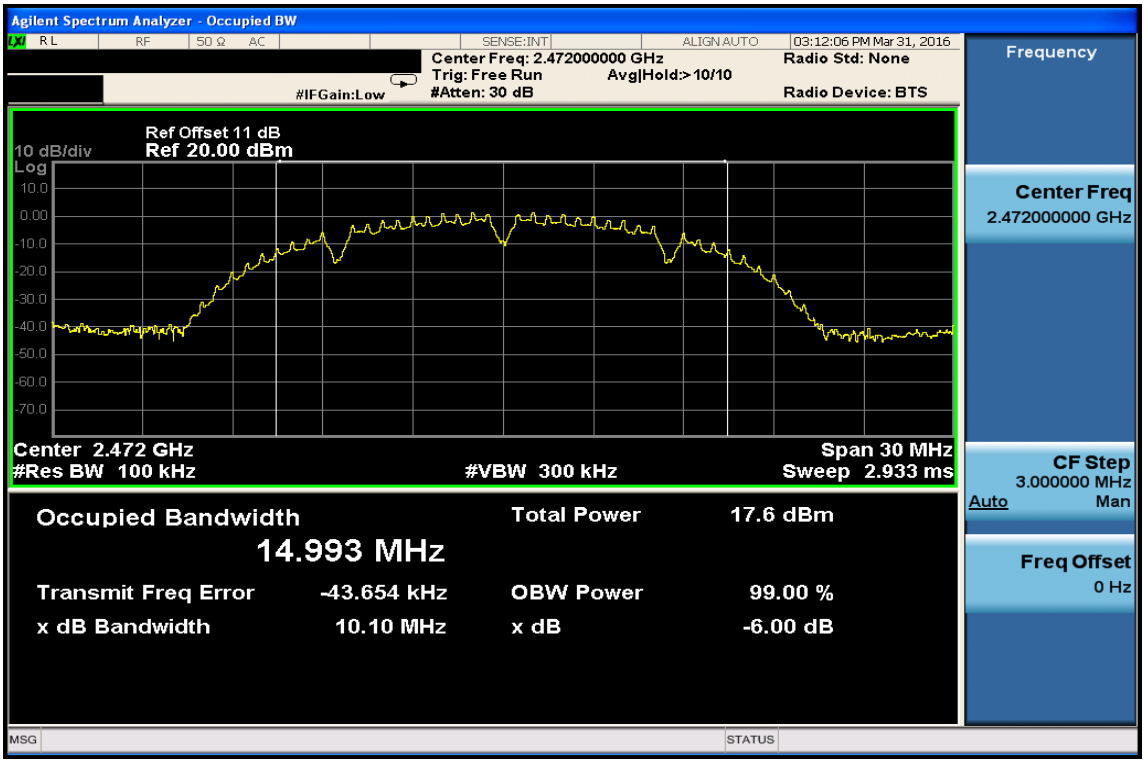
6dB Band Width Test Data CH-13



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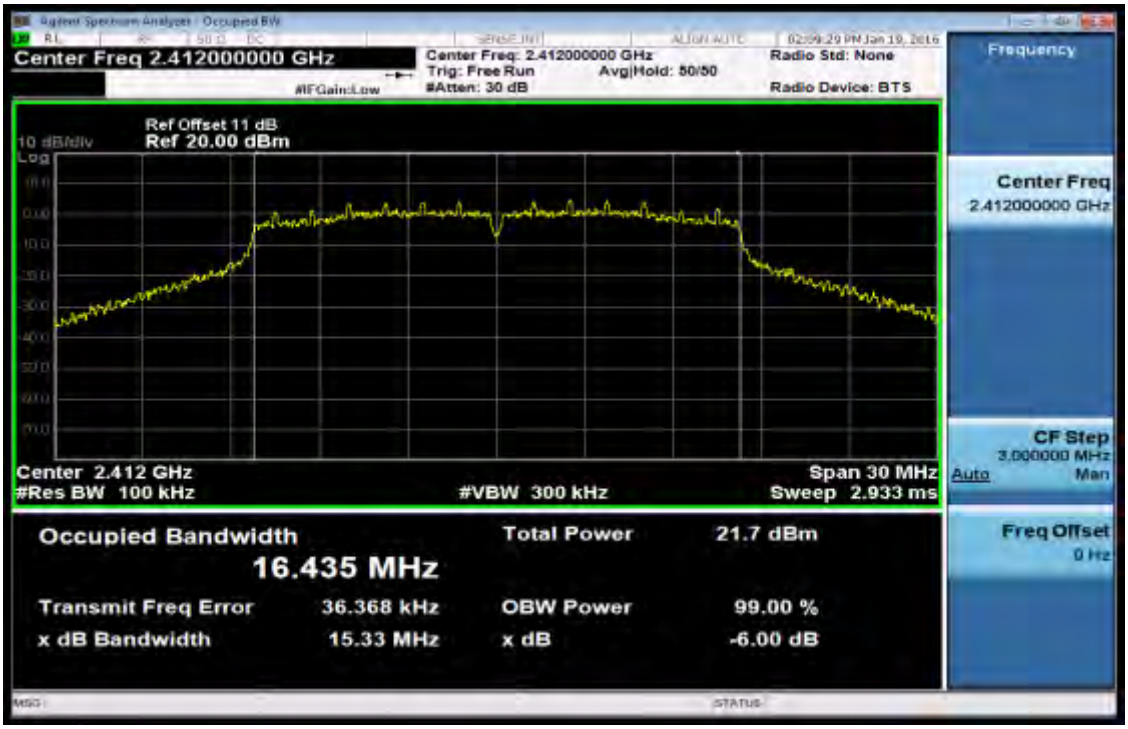
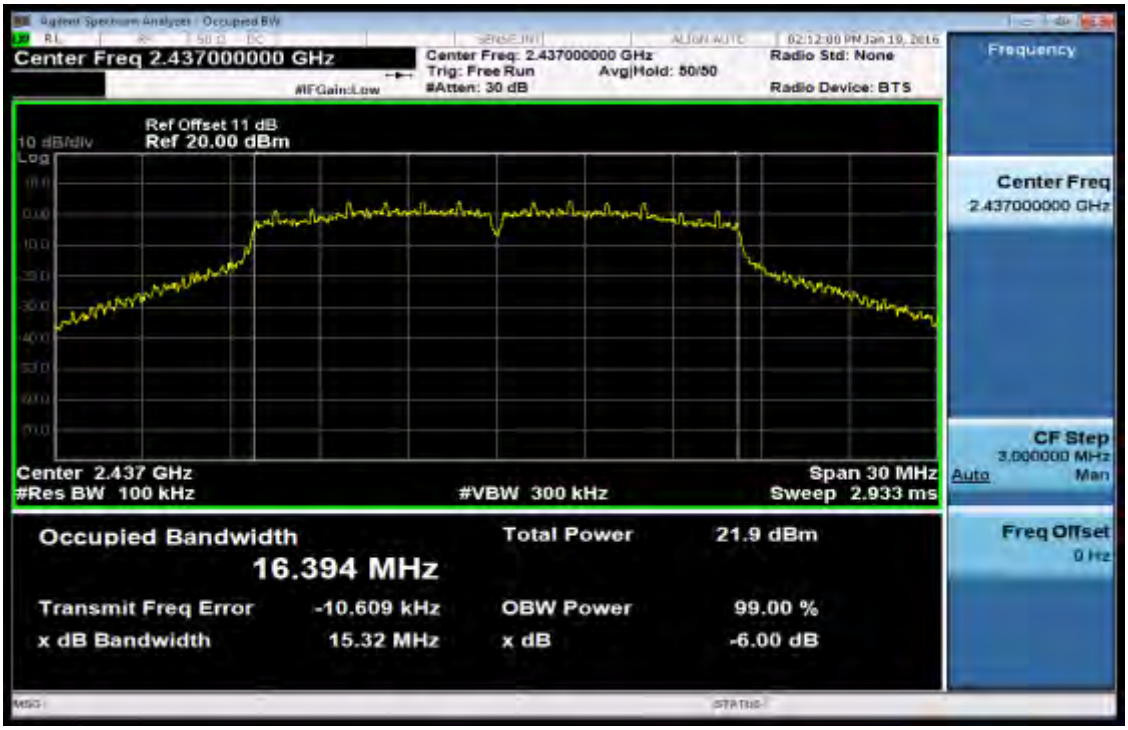
802.11g (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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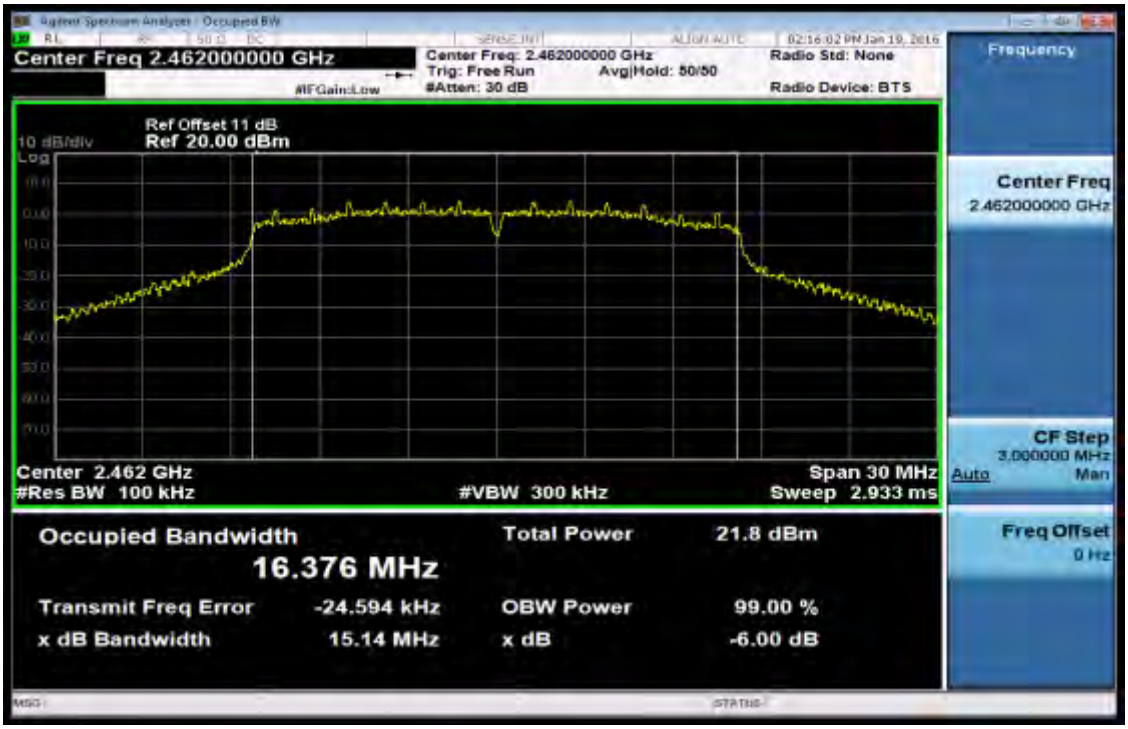
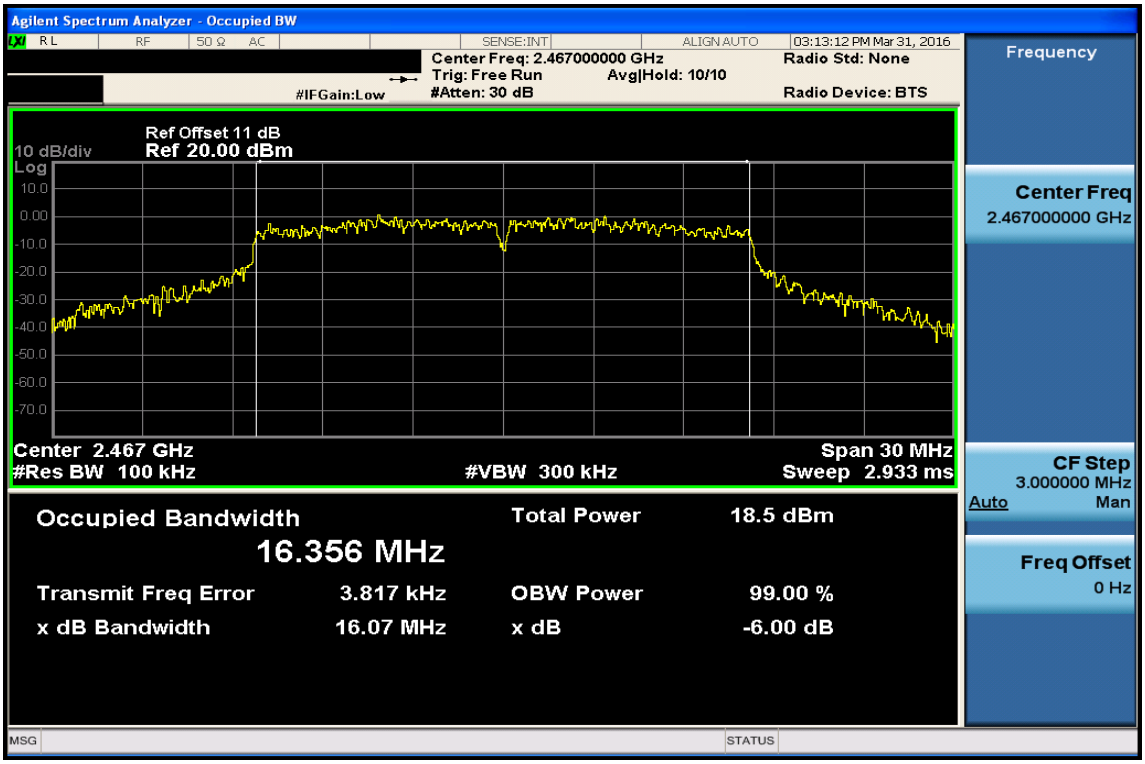
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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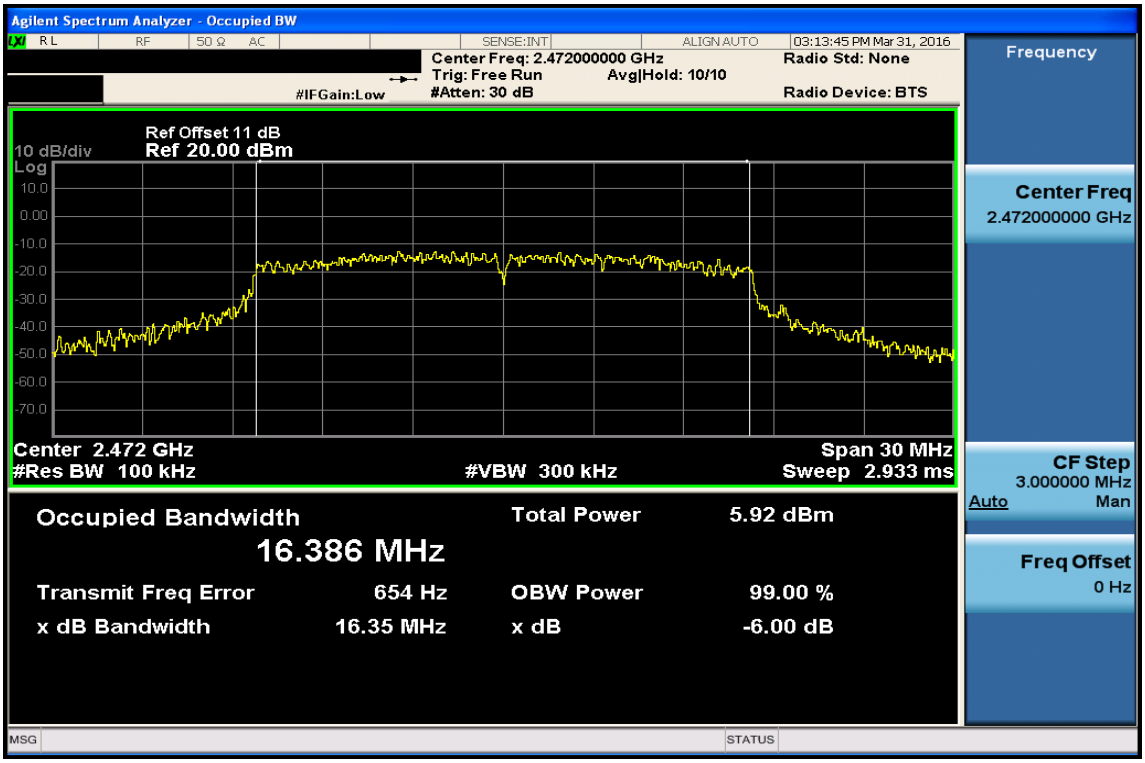
6dB Band Width Test Data CH-13



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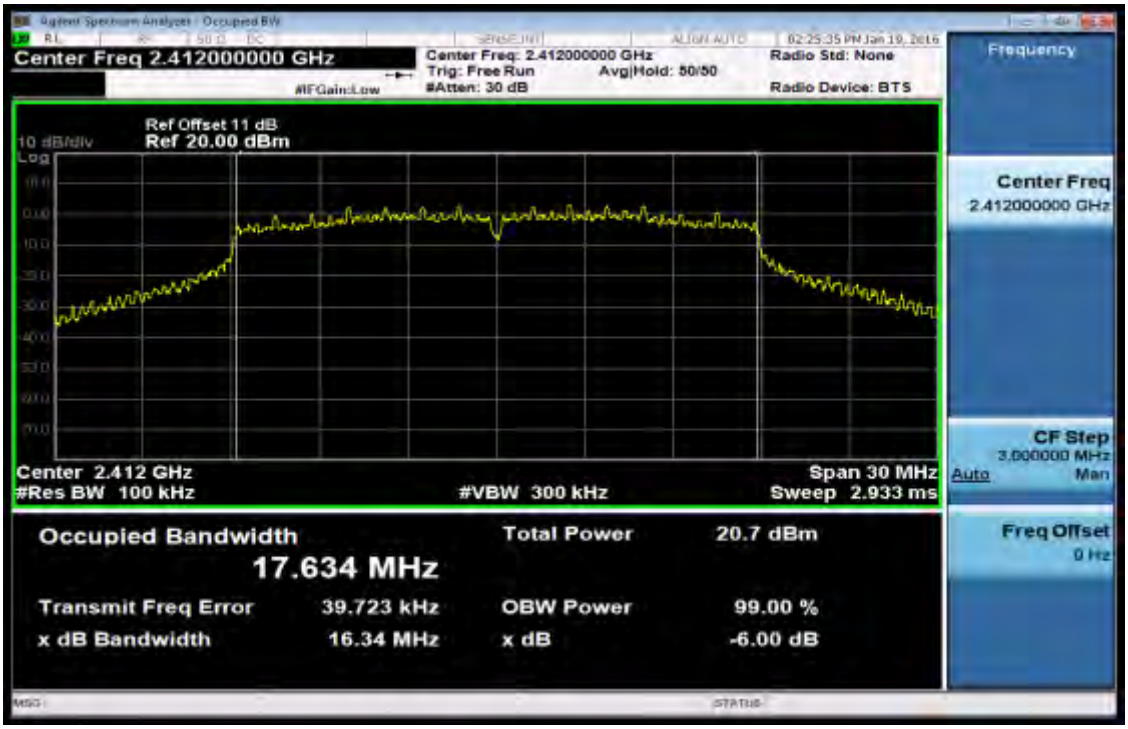
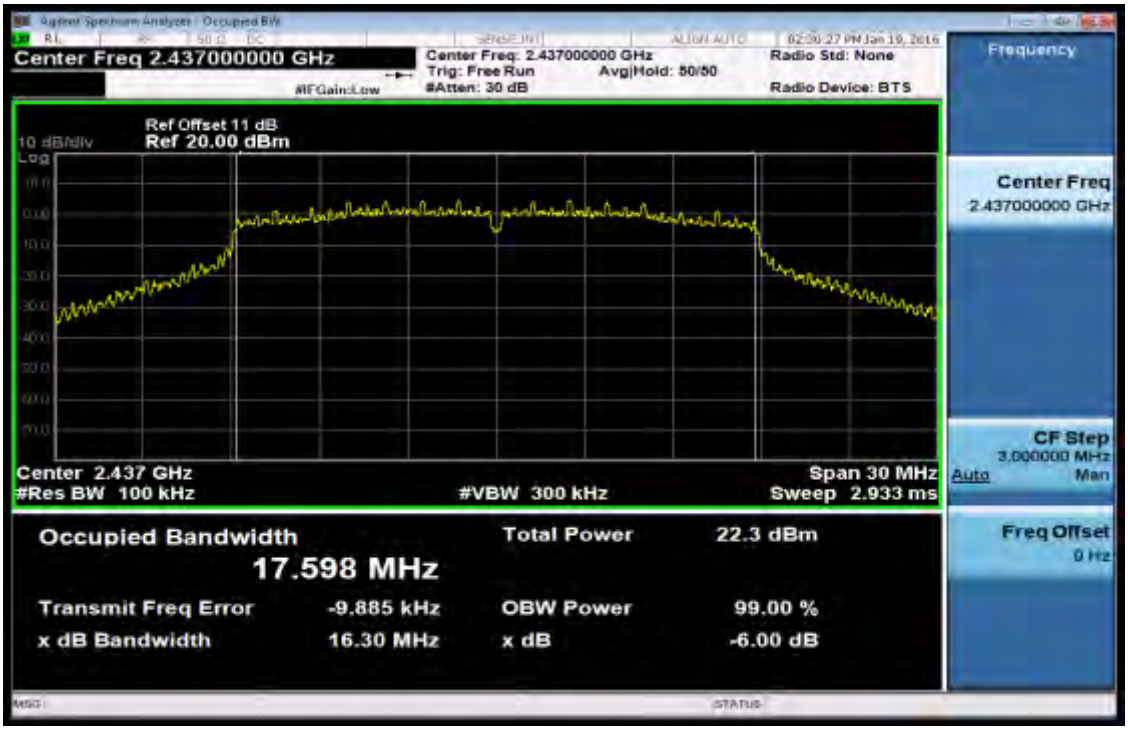
802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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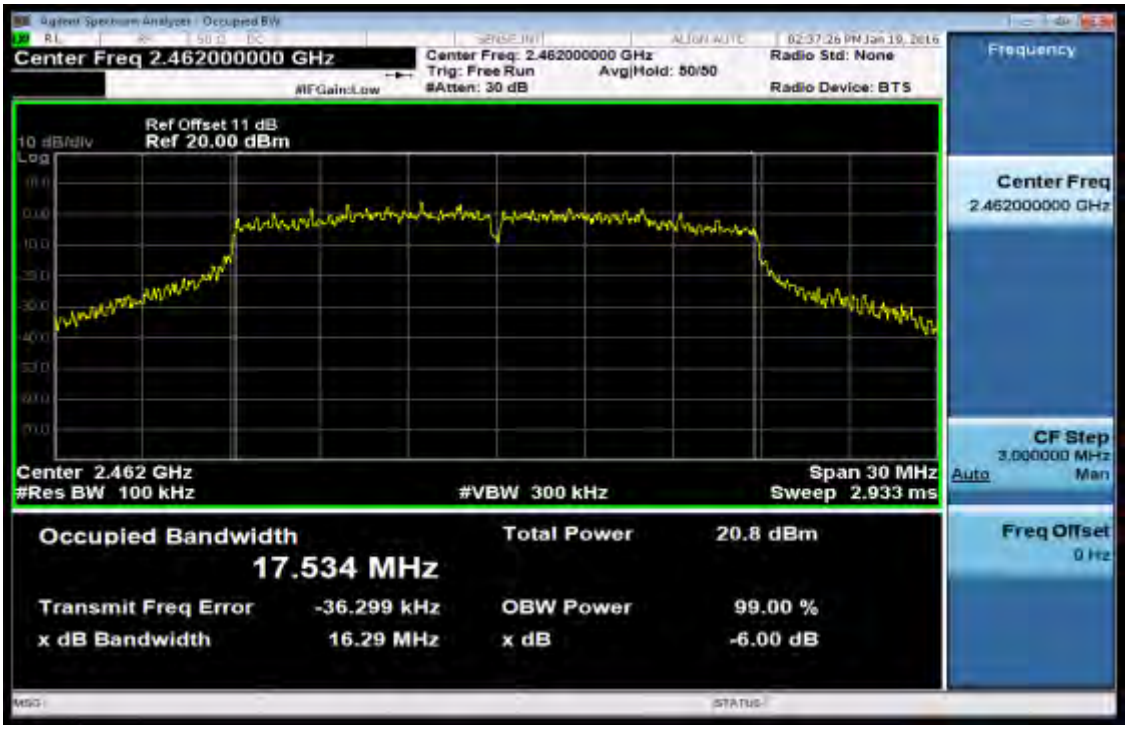
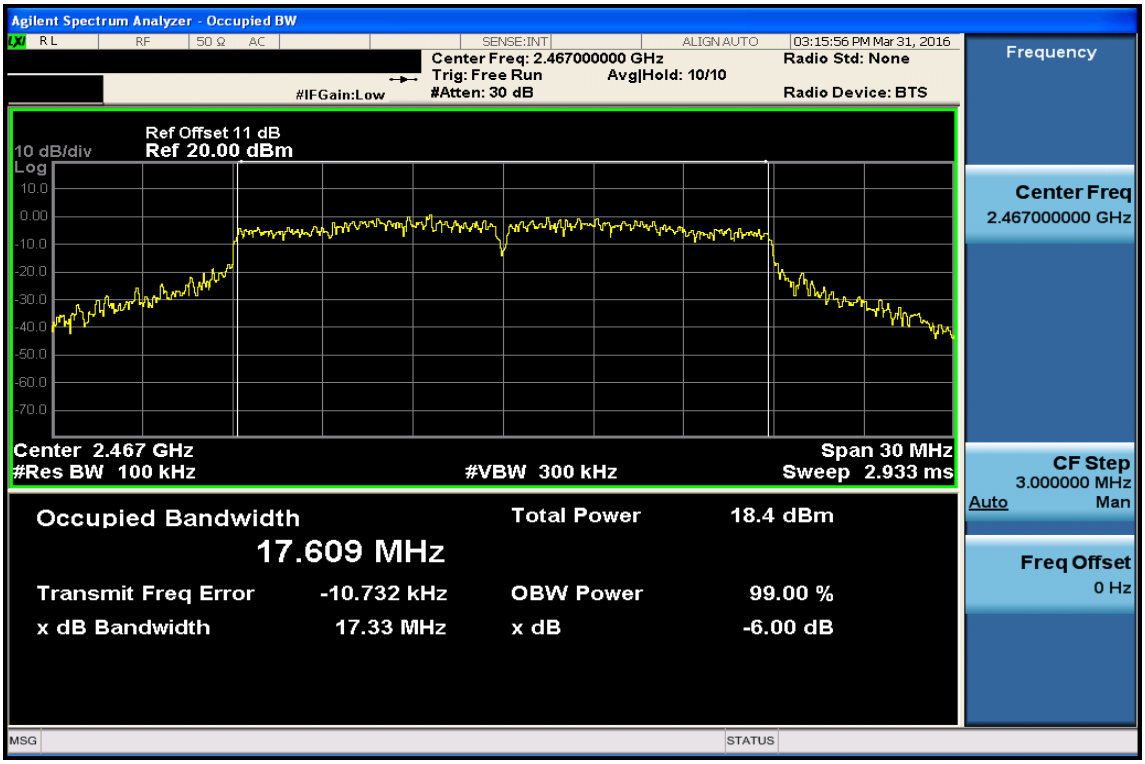
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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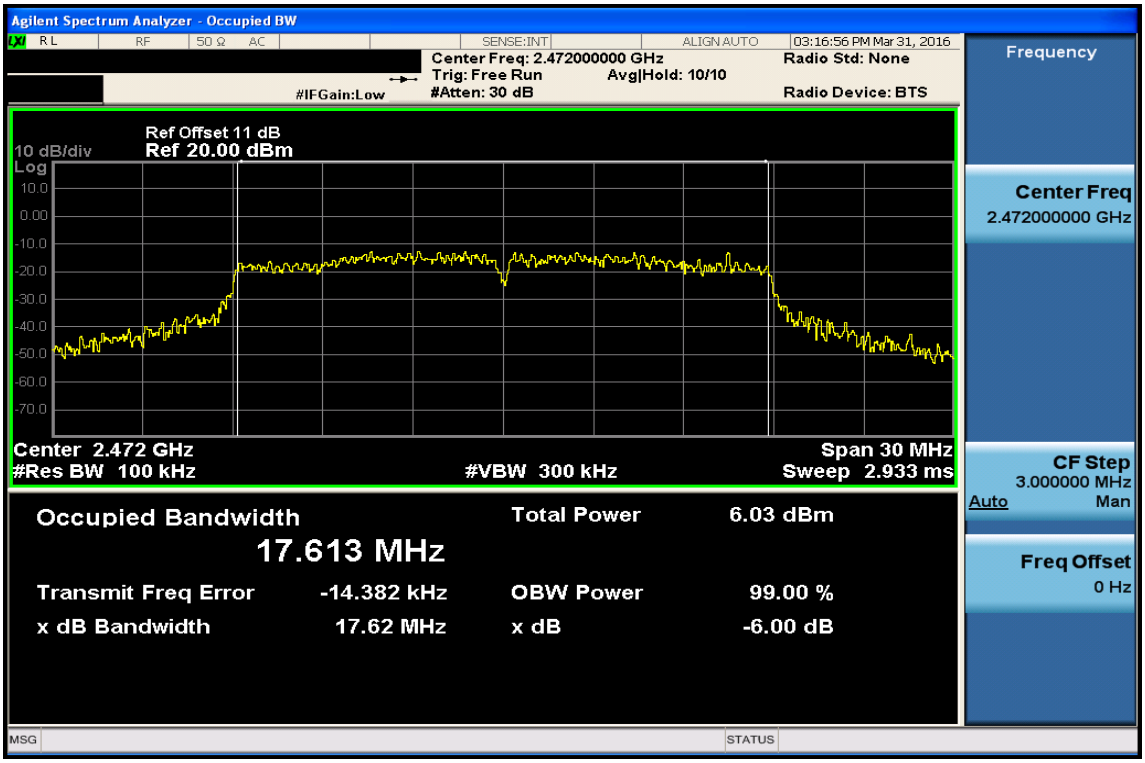
6dB Band Width Test Data CH-13



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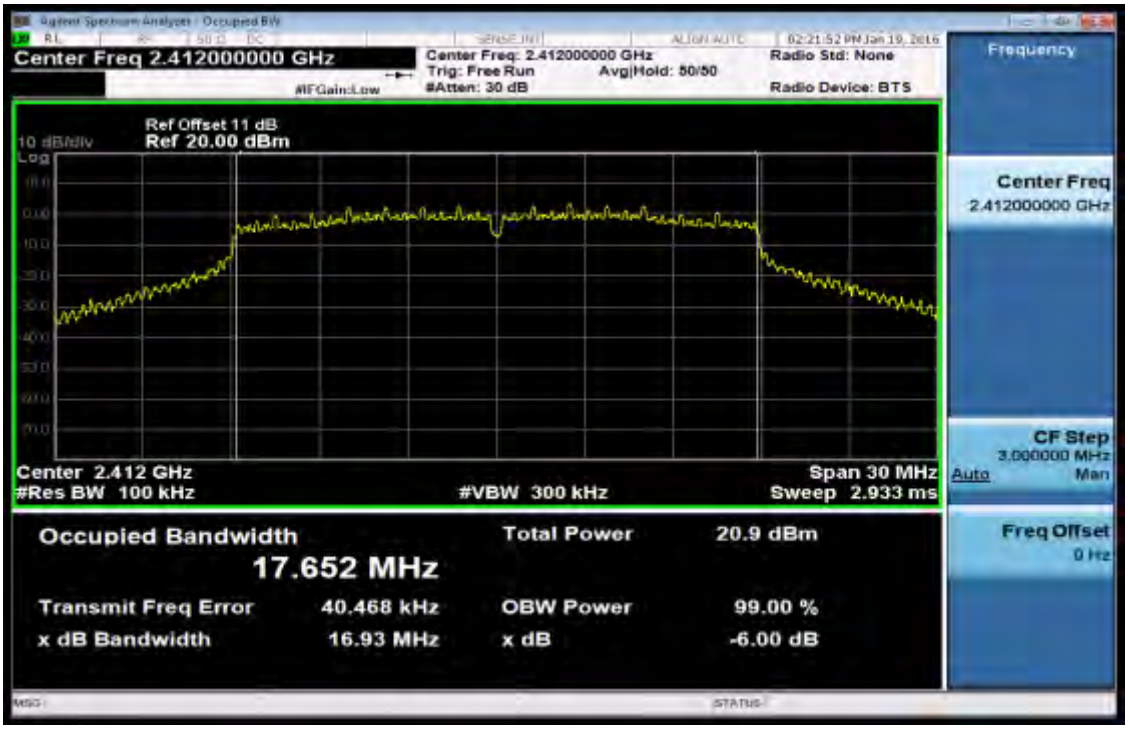
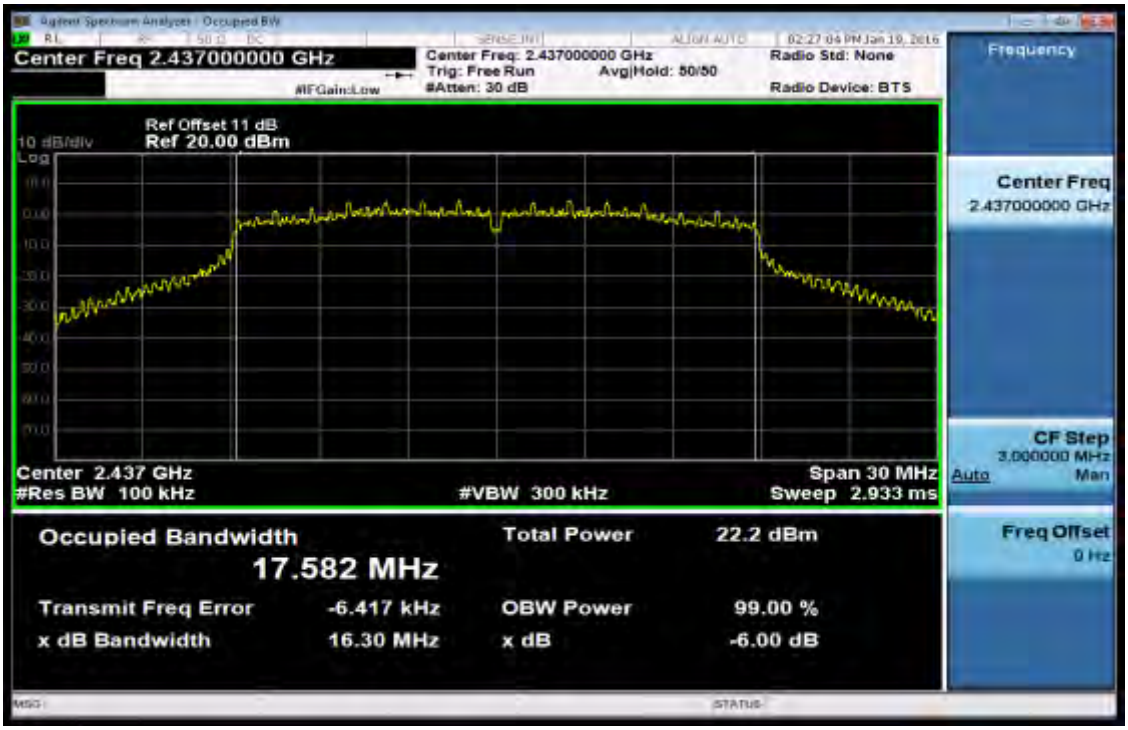
802.11n_20M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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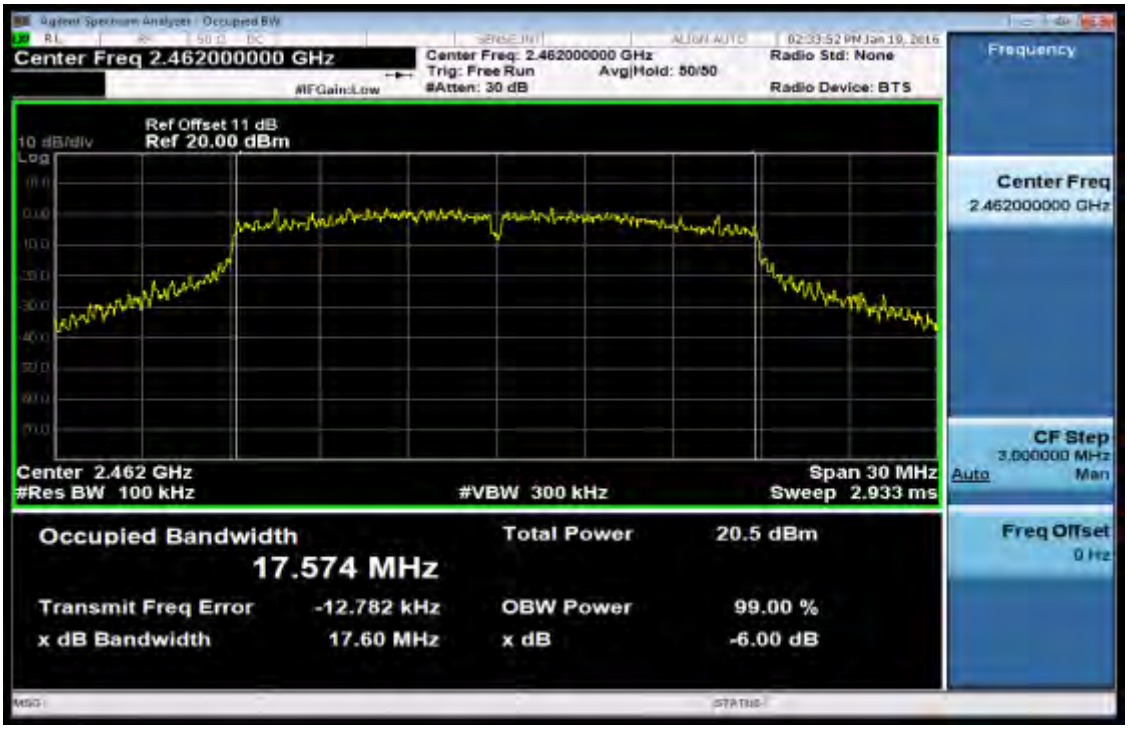
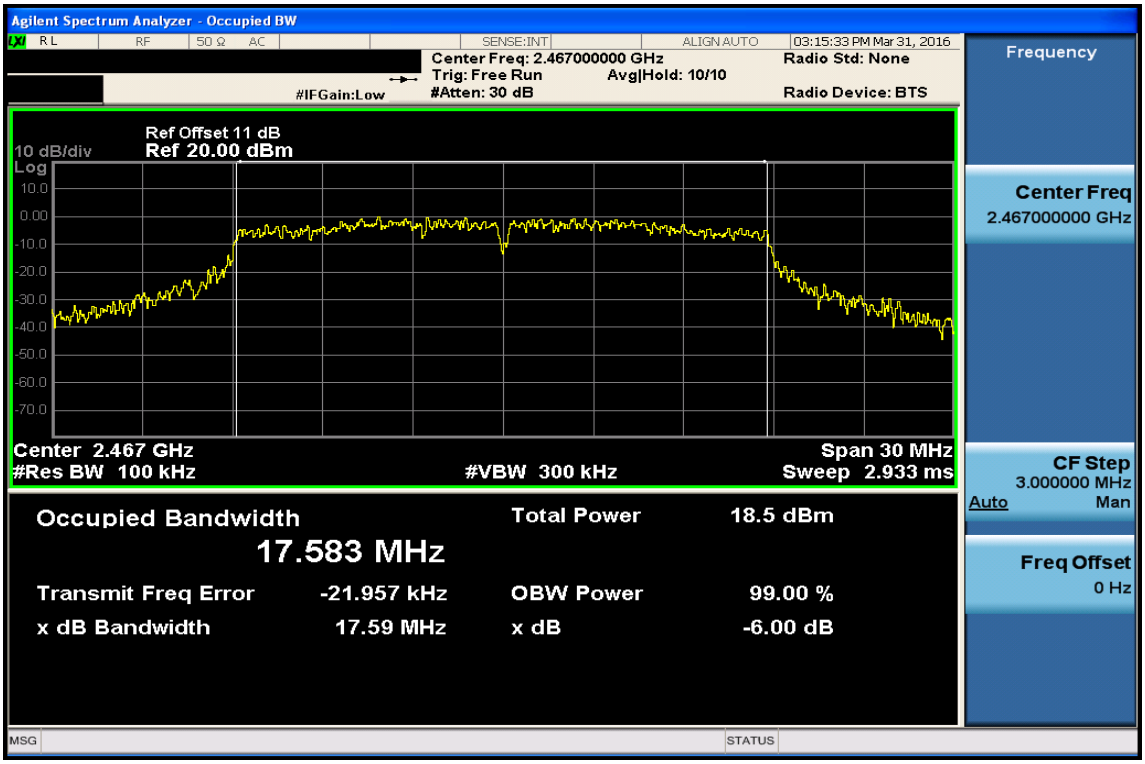
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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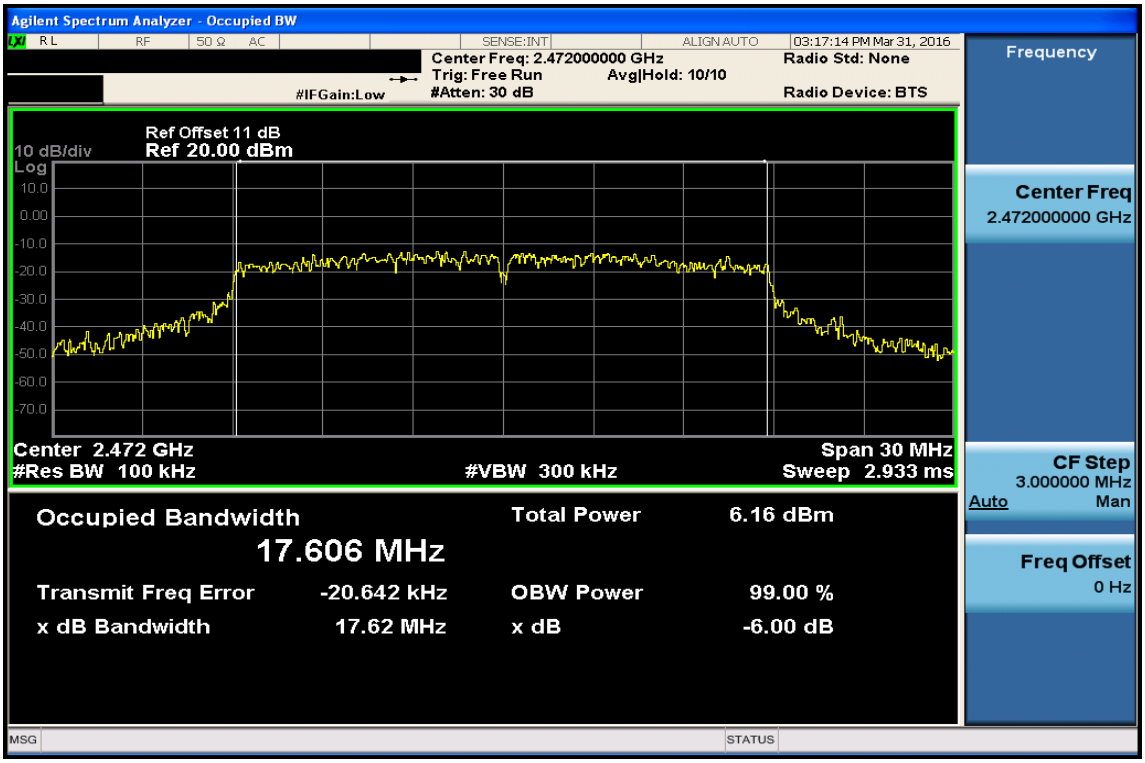
6dB Band Width Test Data CH-13



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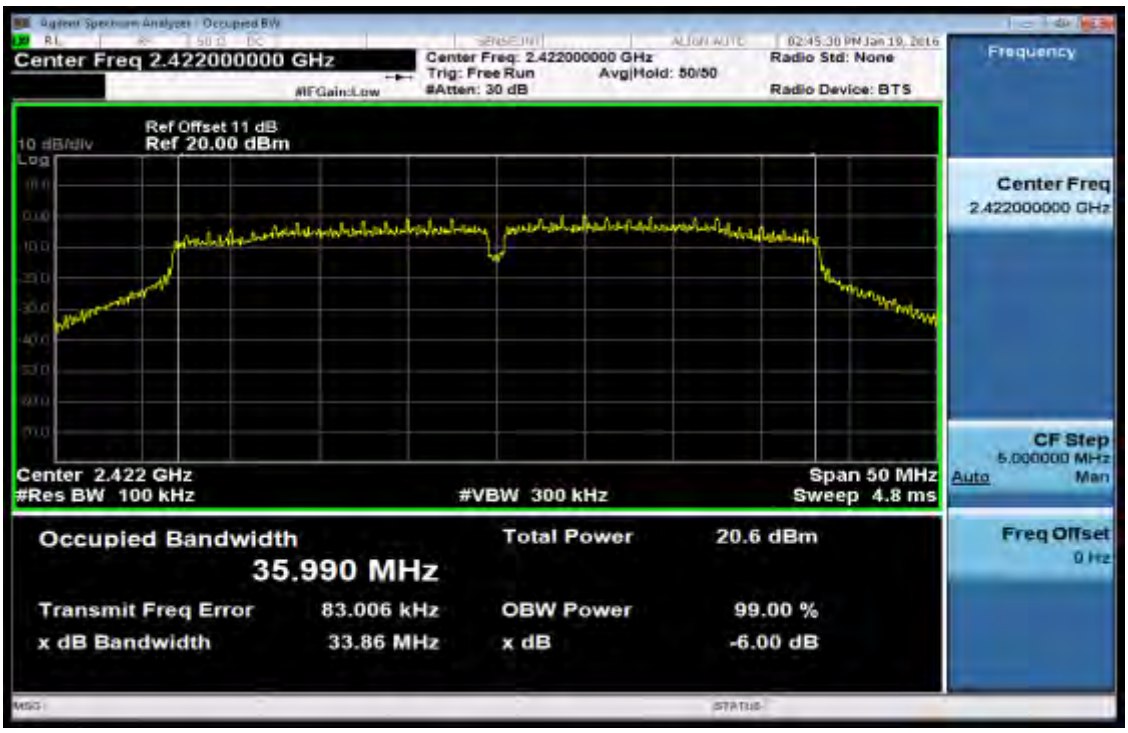
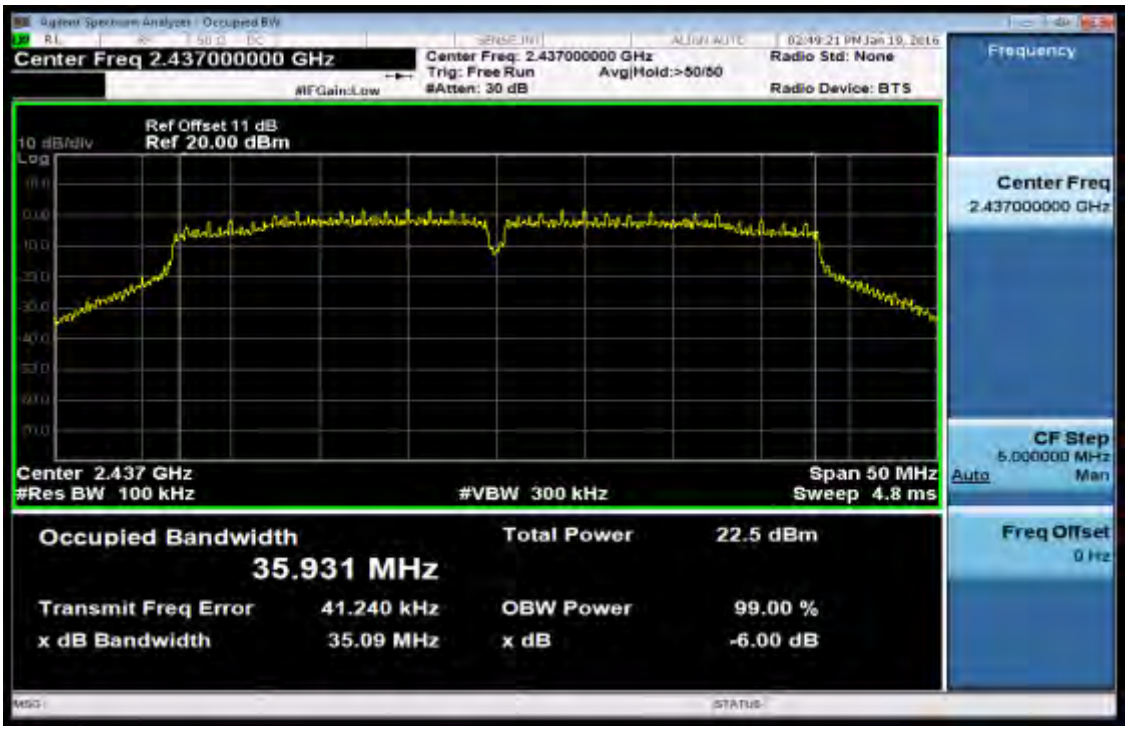
802.11n_40M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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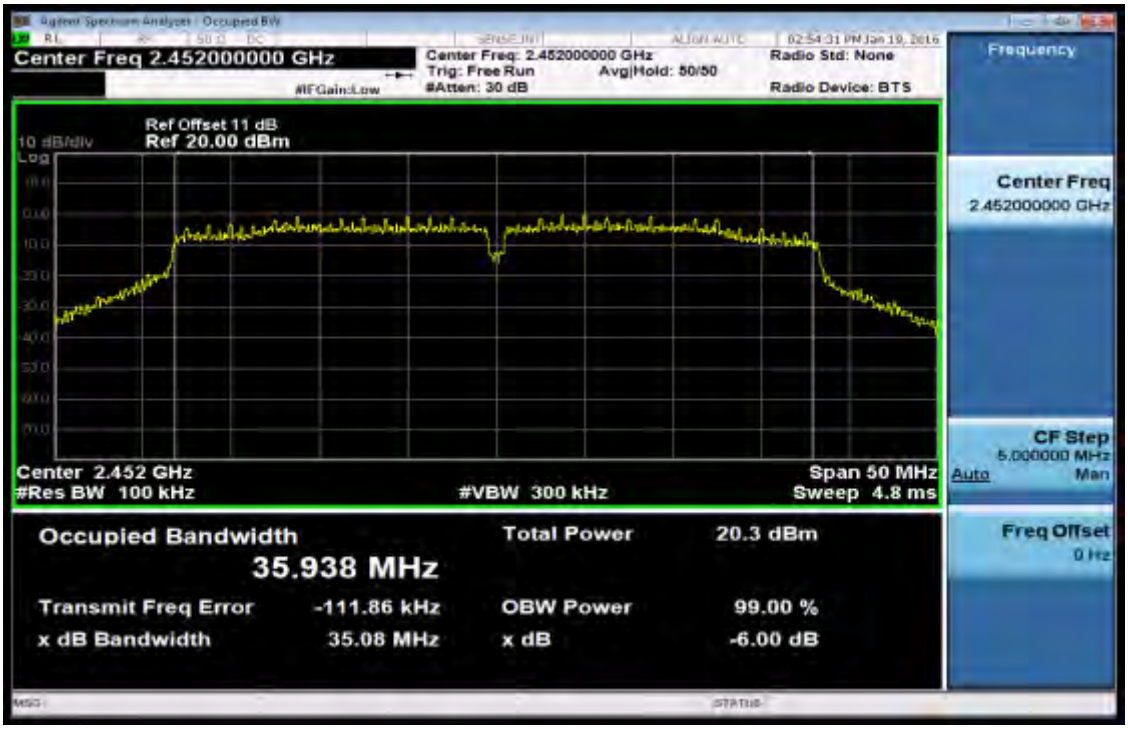
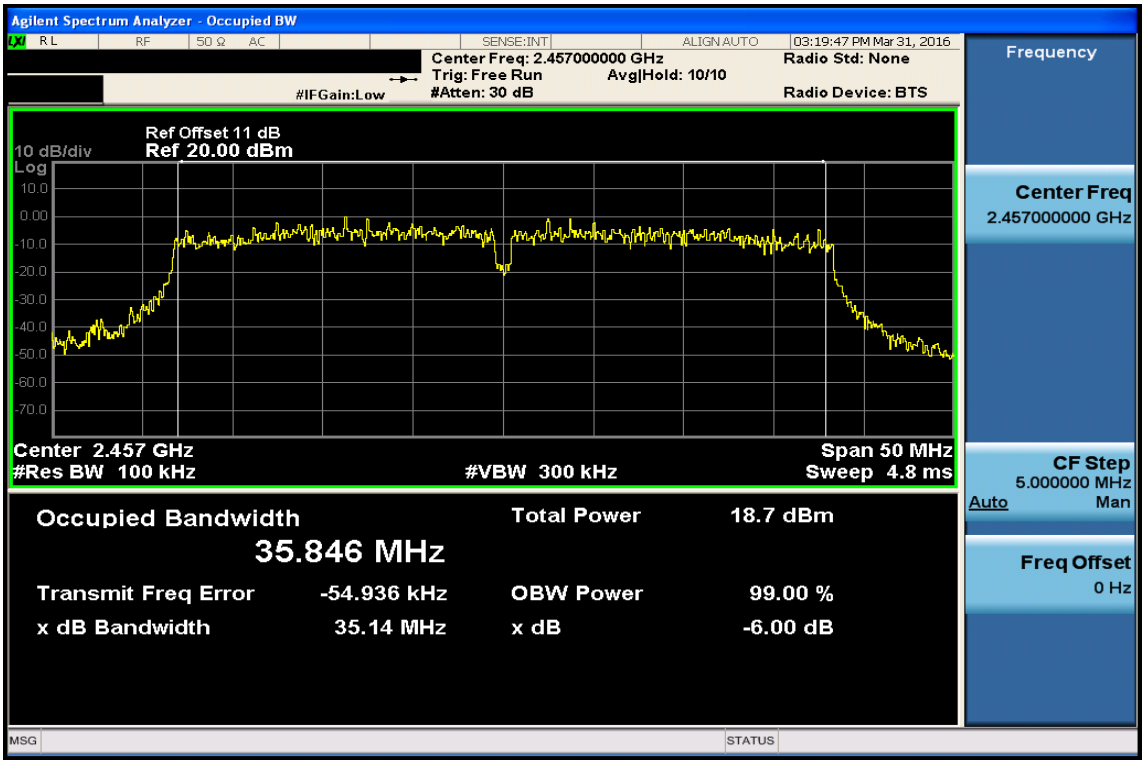
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-10



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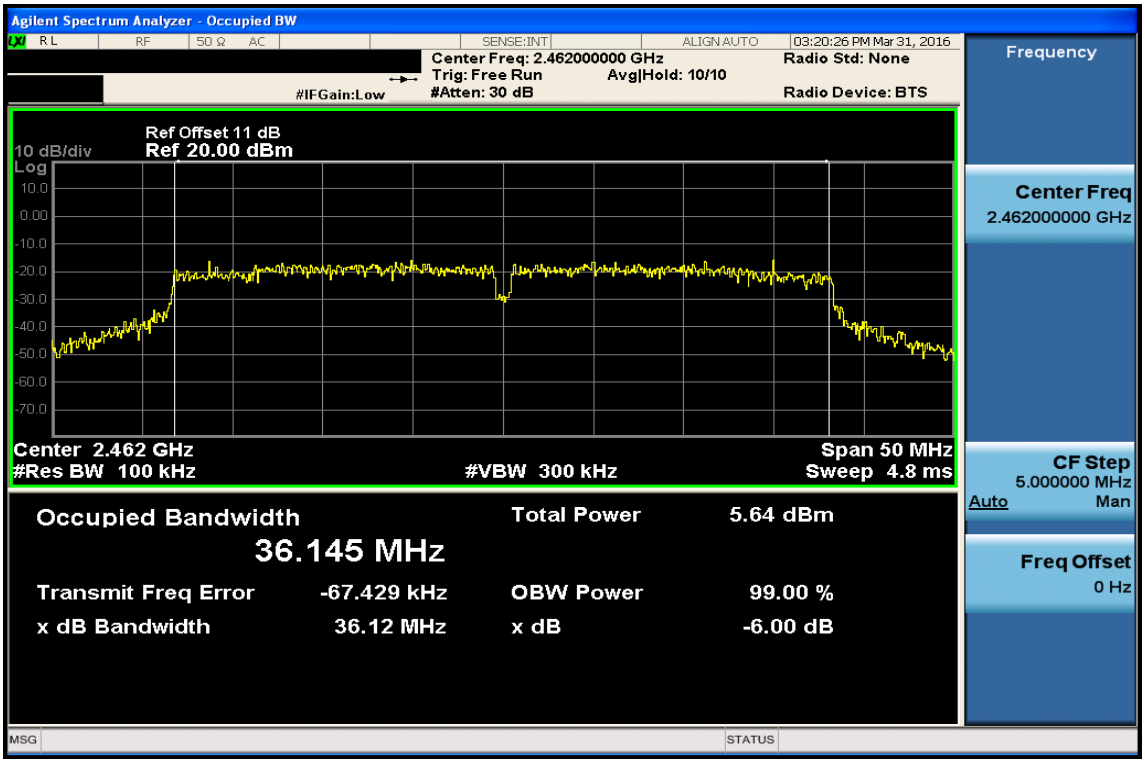
6dB Band Width Test Data CH-11



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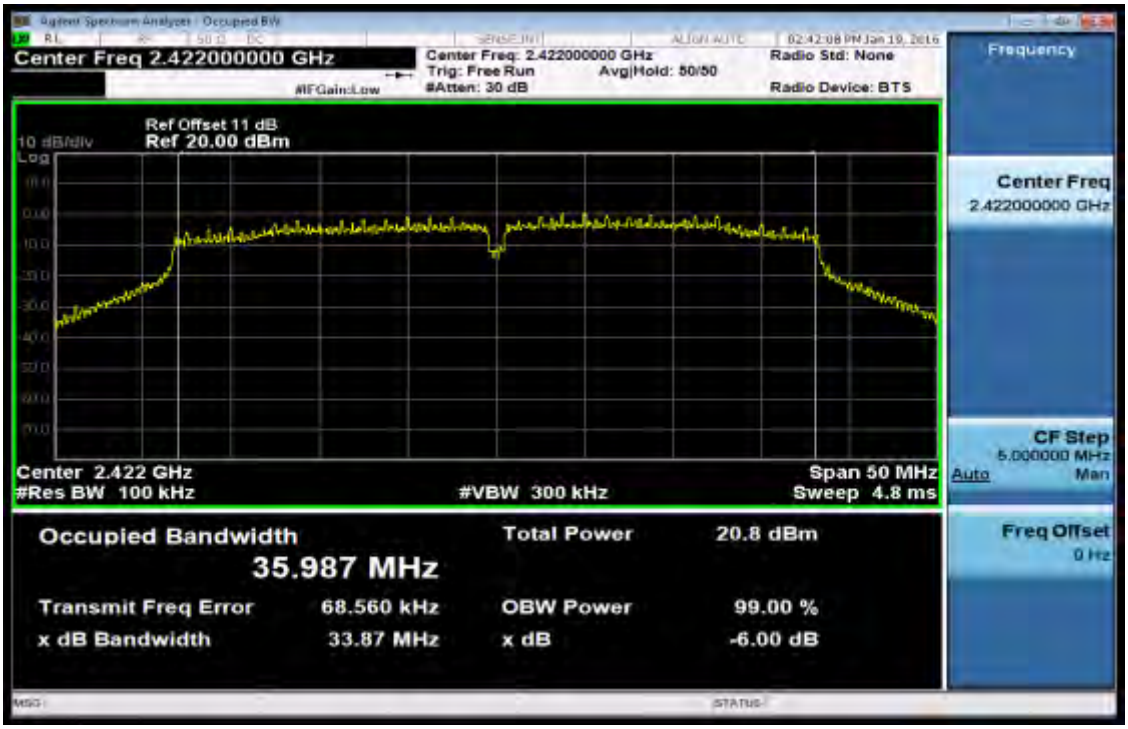
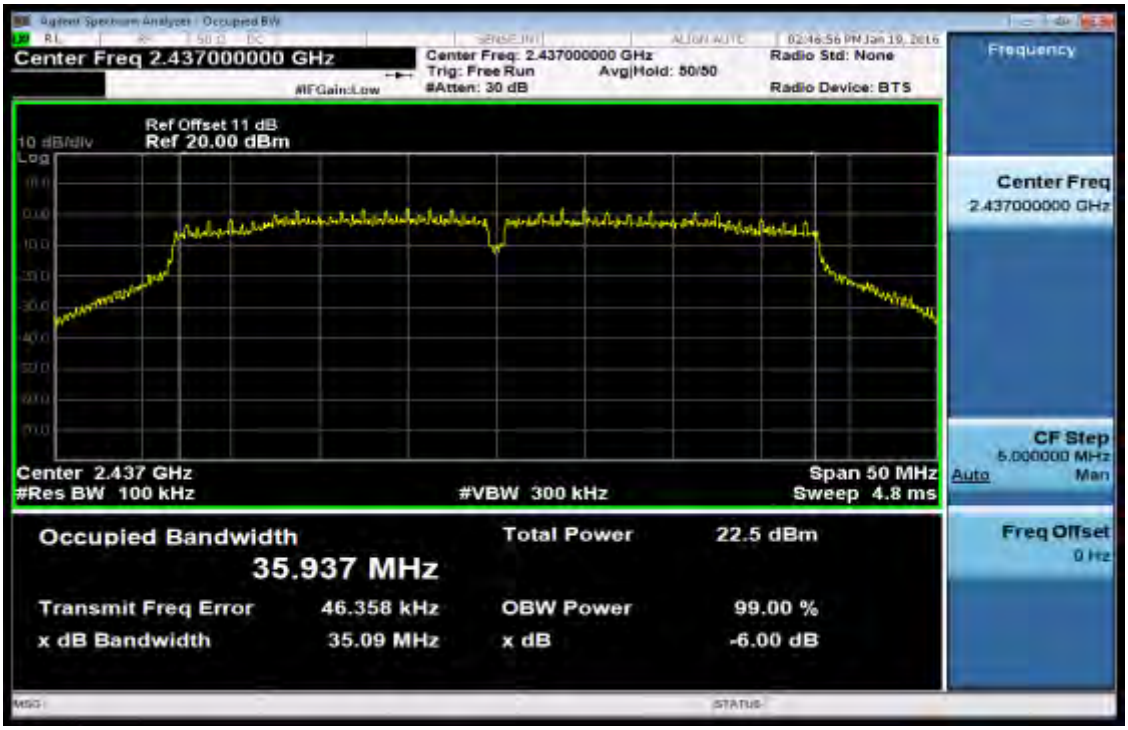
802.11n_40M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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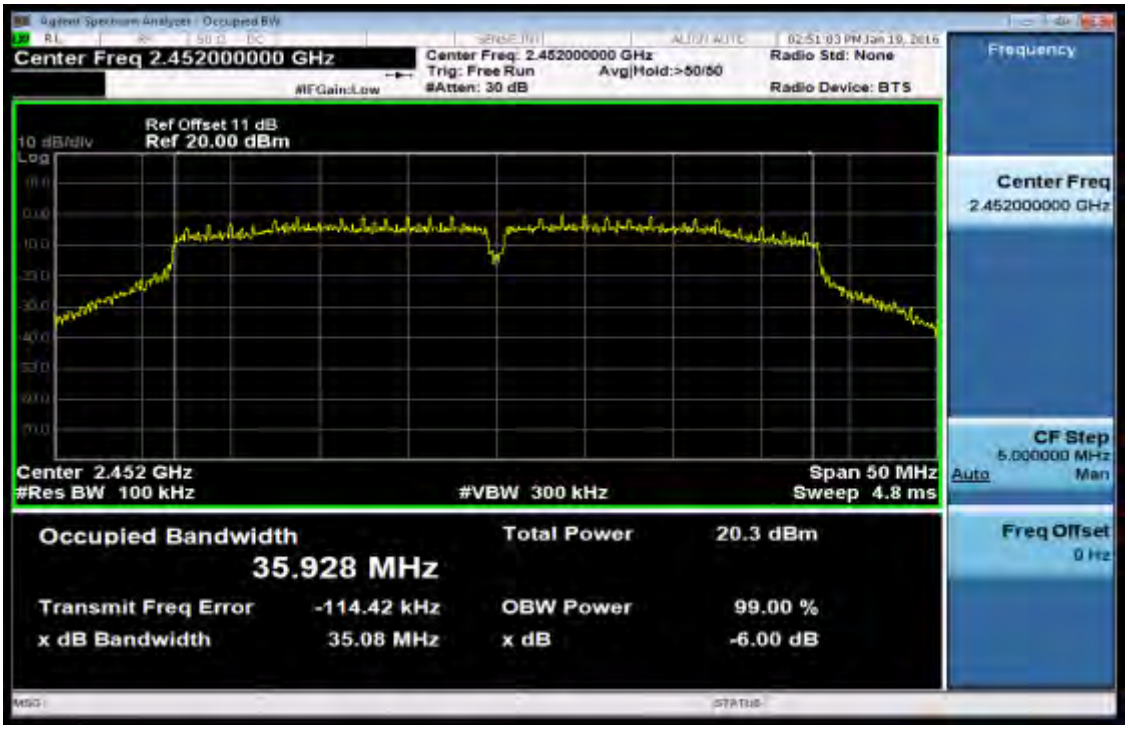
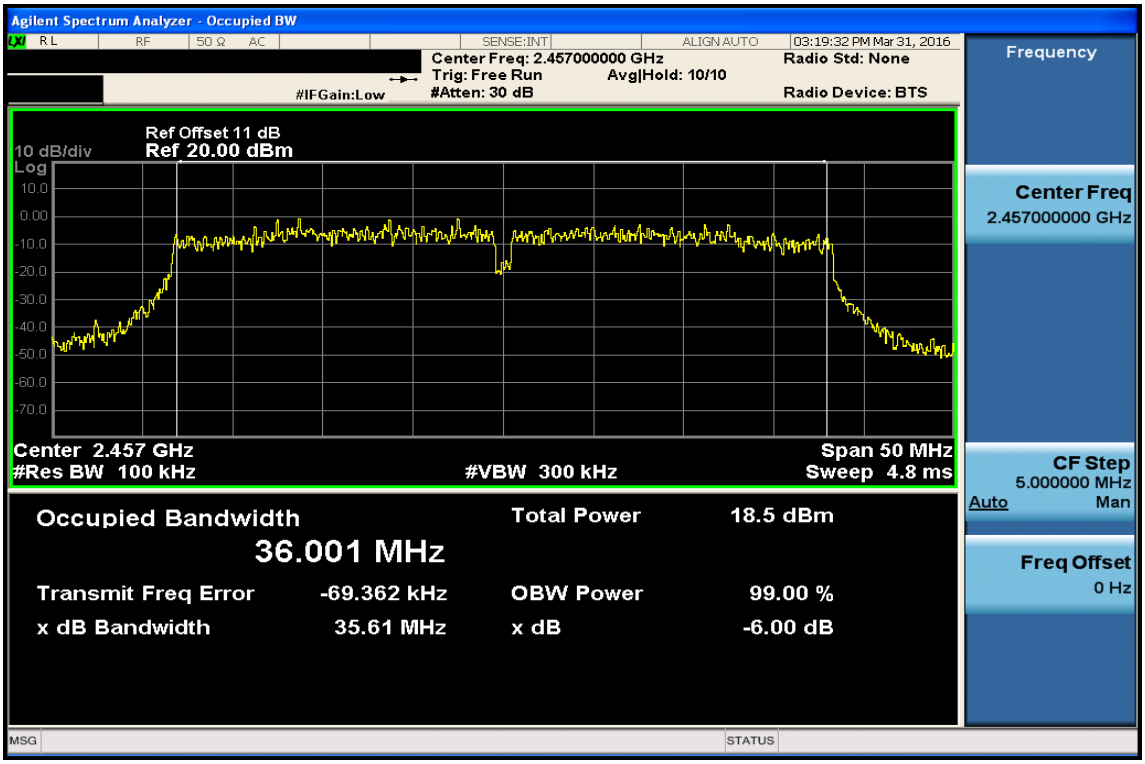
6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-10



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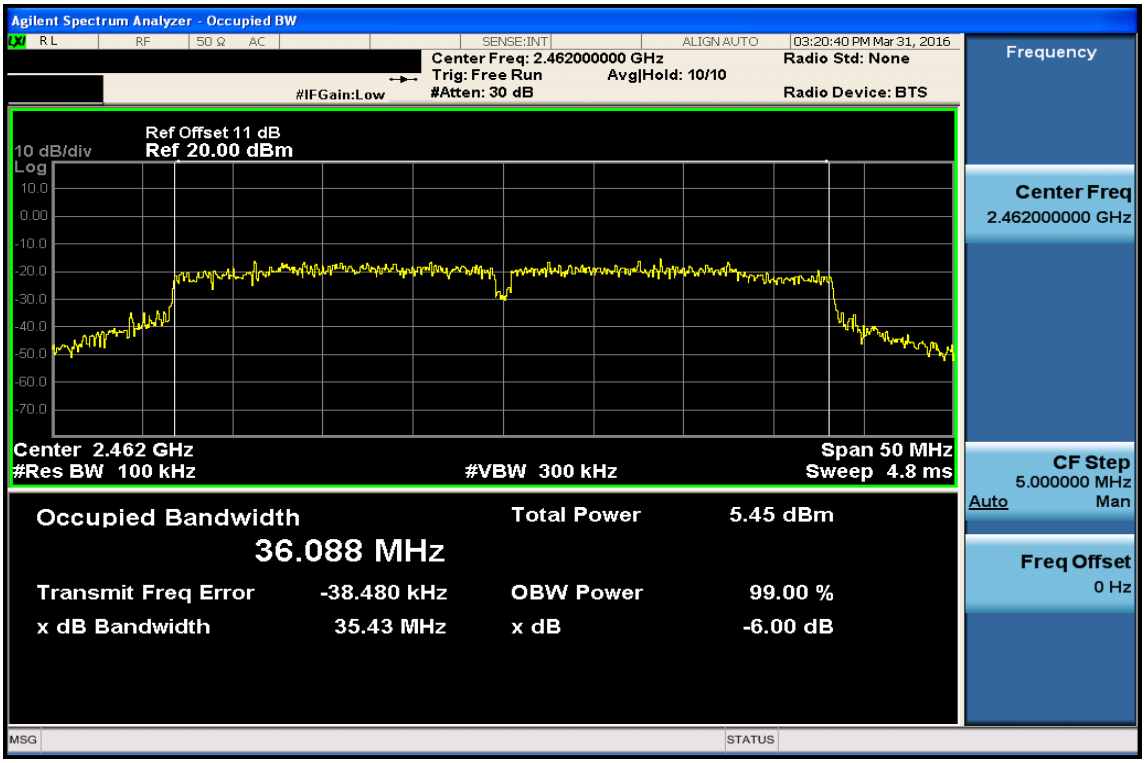
6dB Band Width Test Data CH-11



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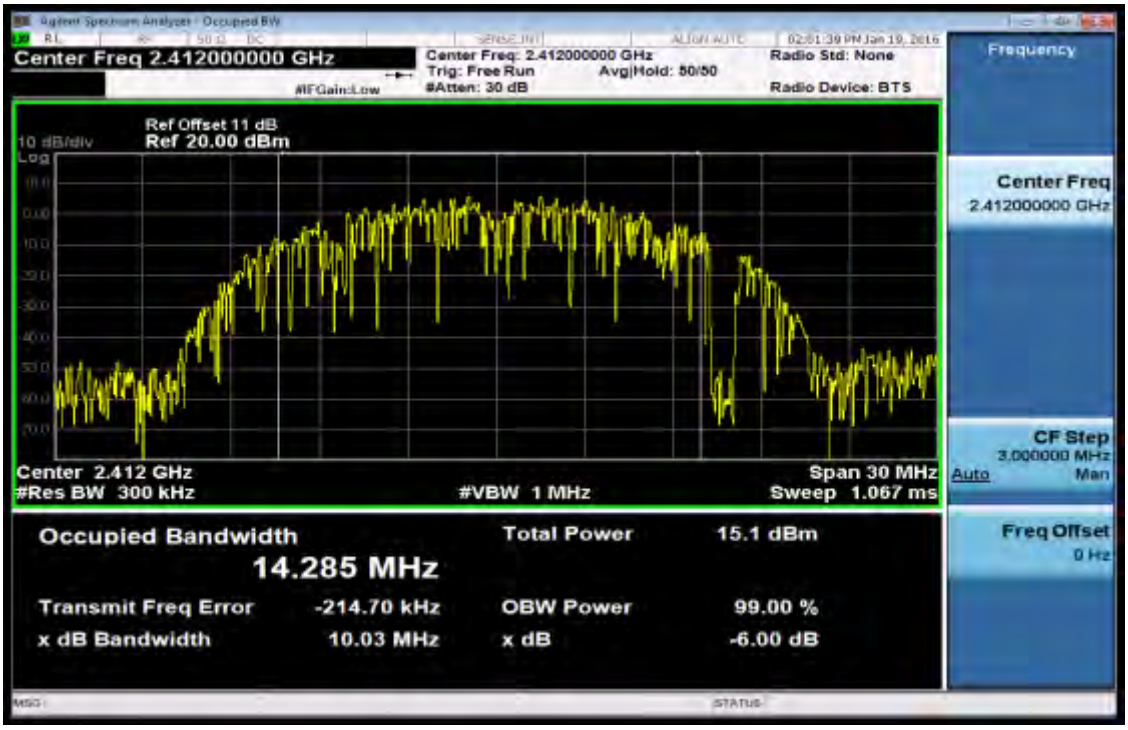
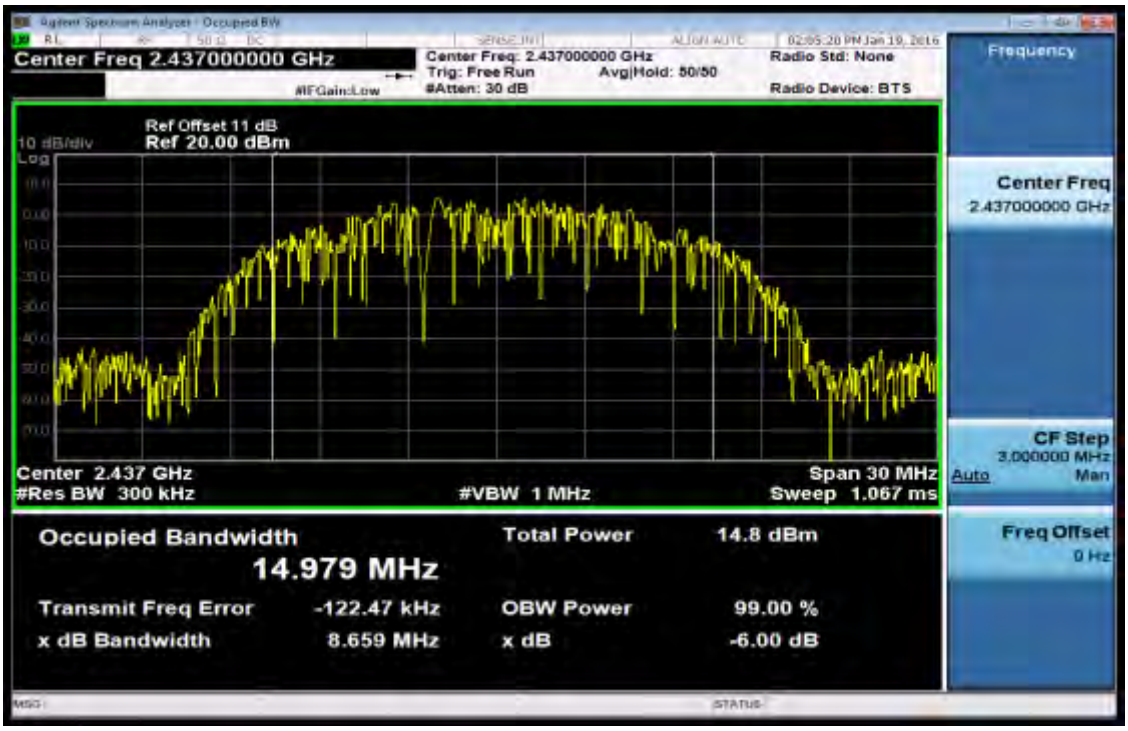
802.11b (Aux)
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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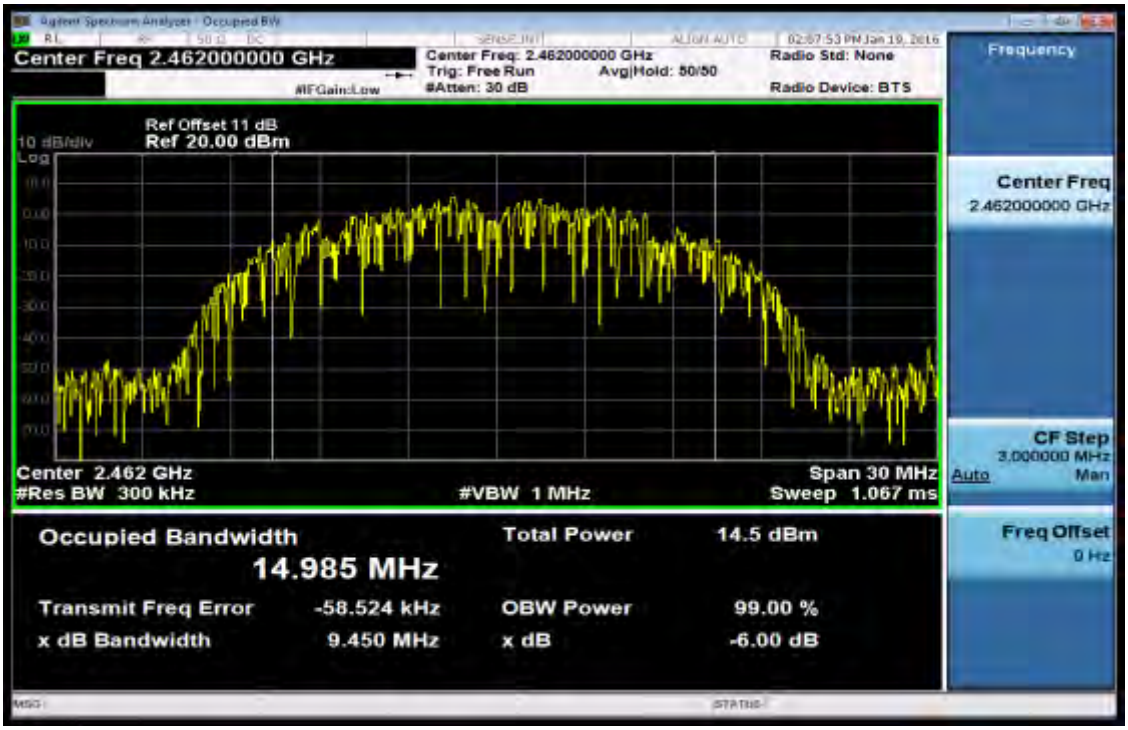
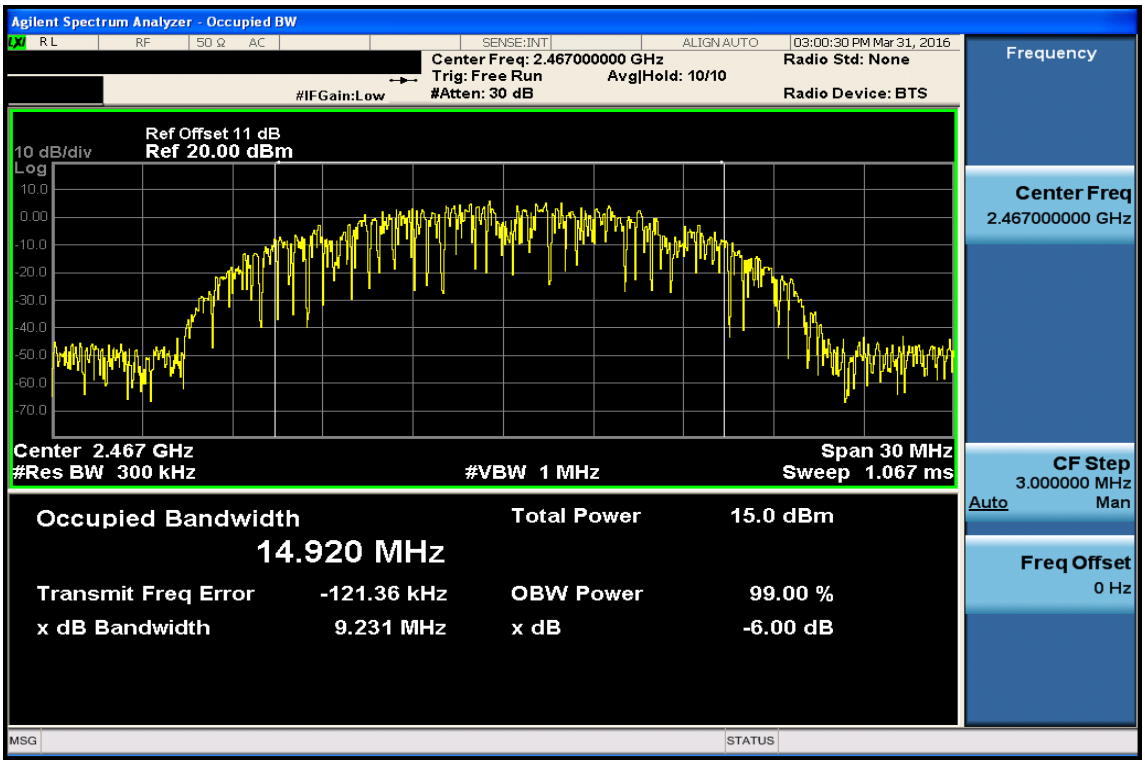
99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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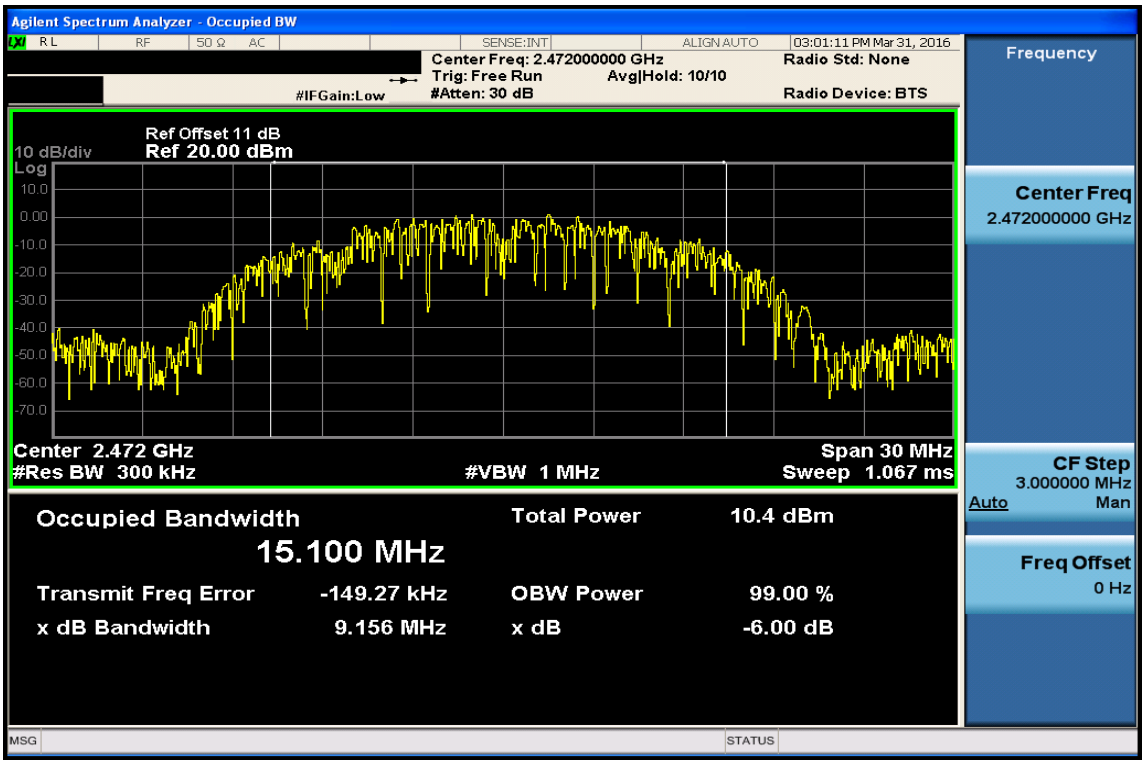
99% Band Width Test Data CH-13



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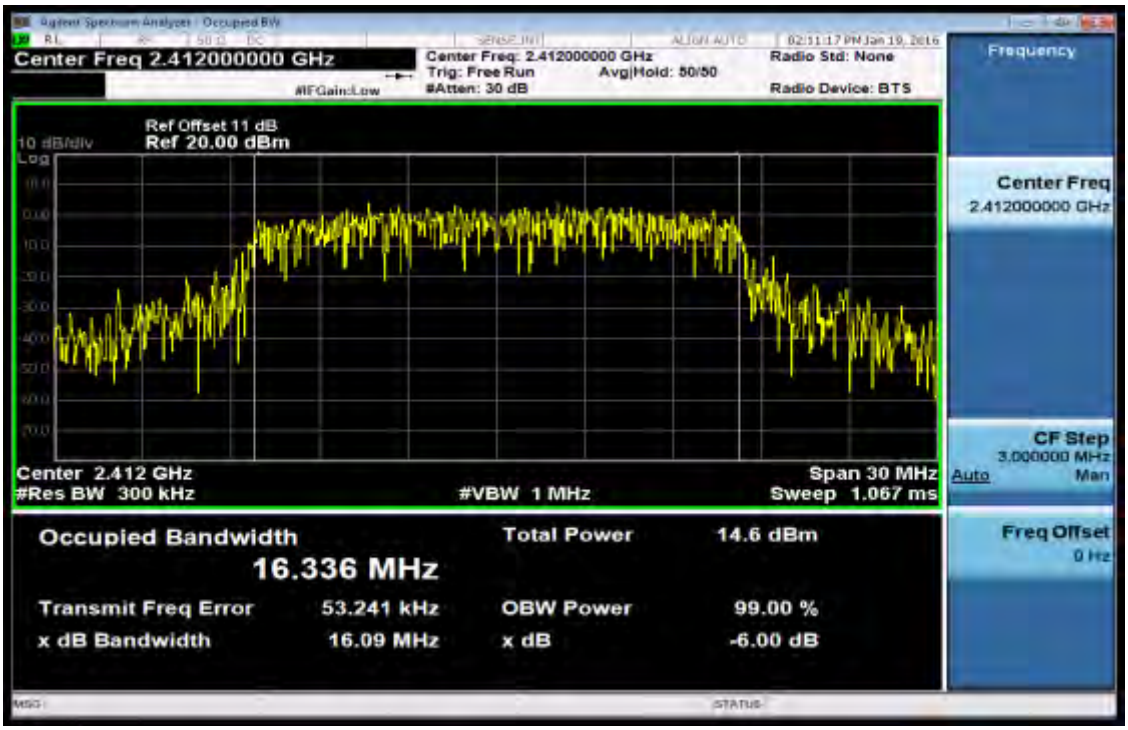
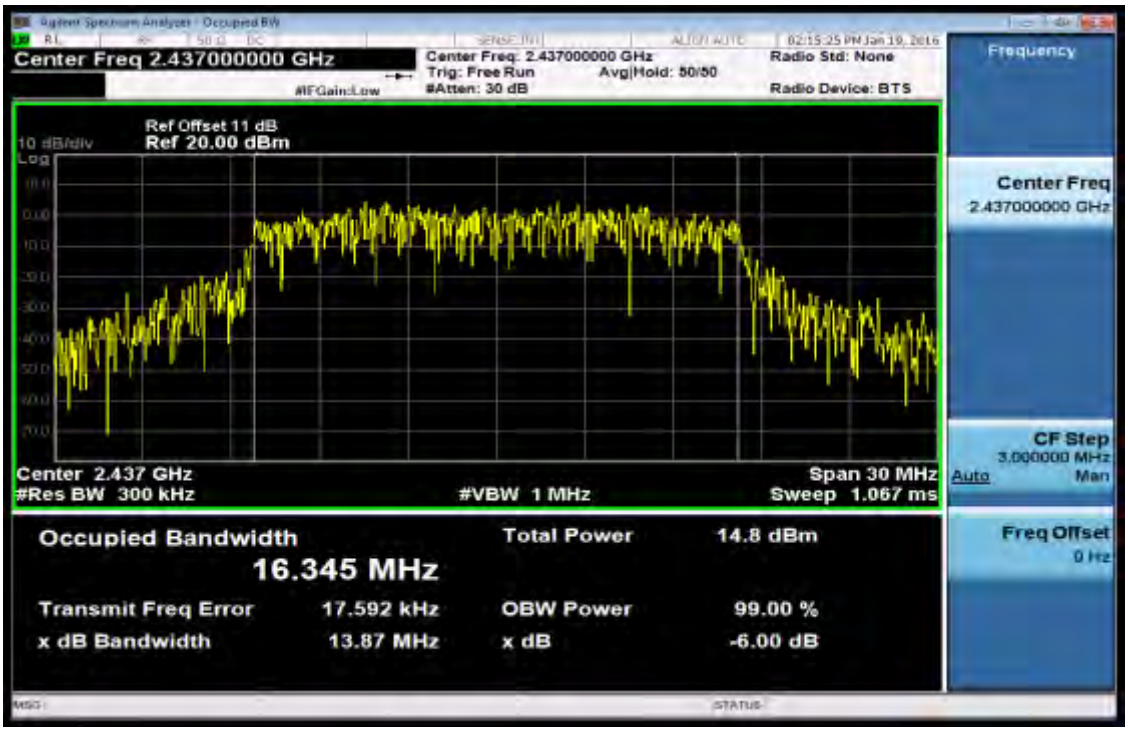
802.11g (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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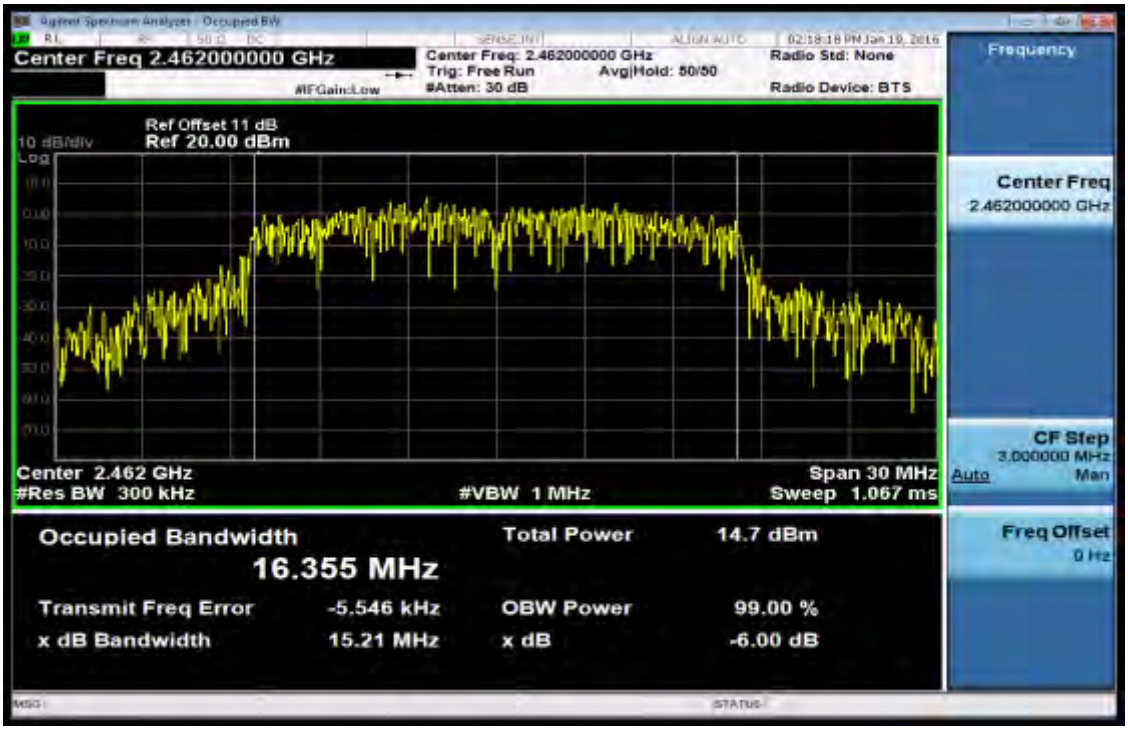
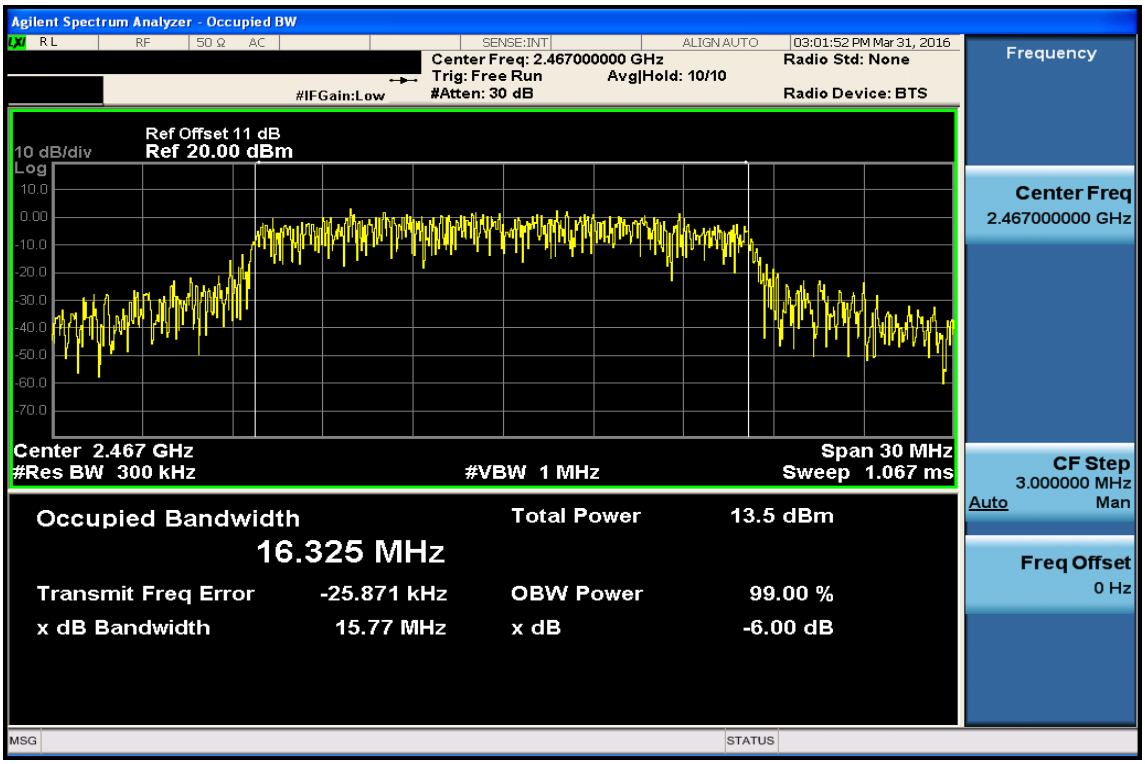
99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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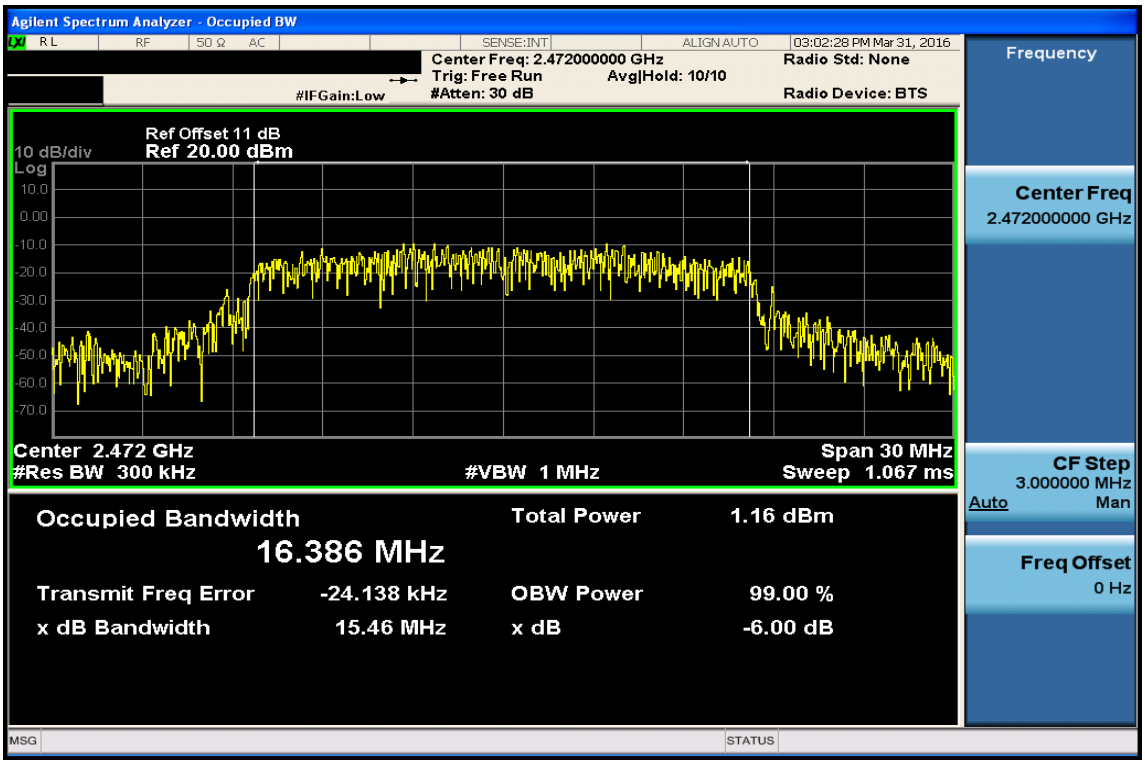
99% Band Width Test Data CH-13



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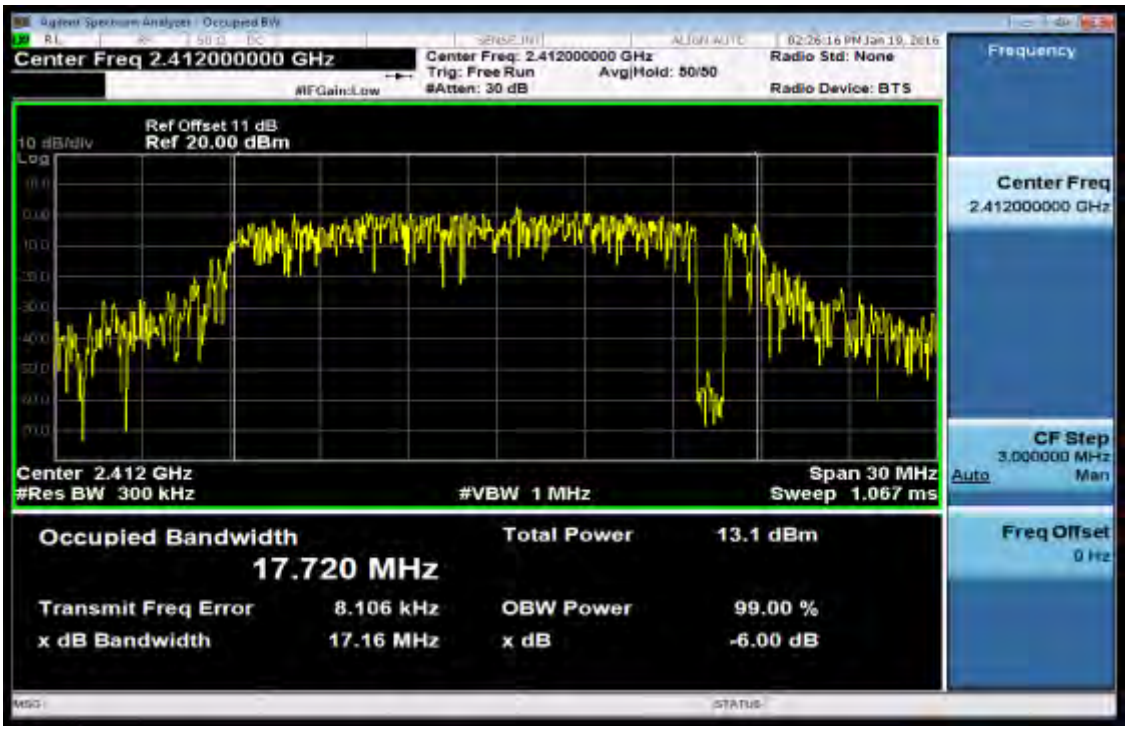
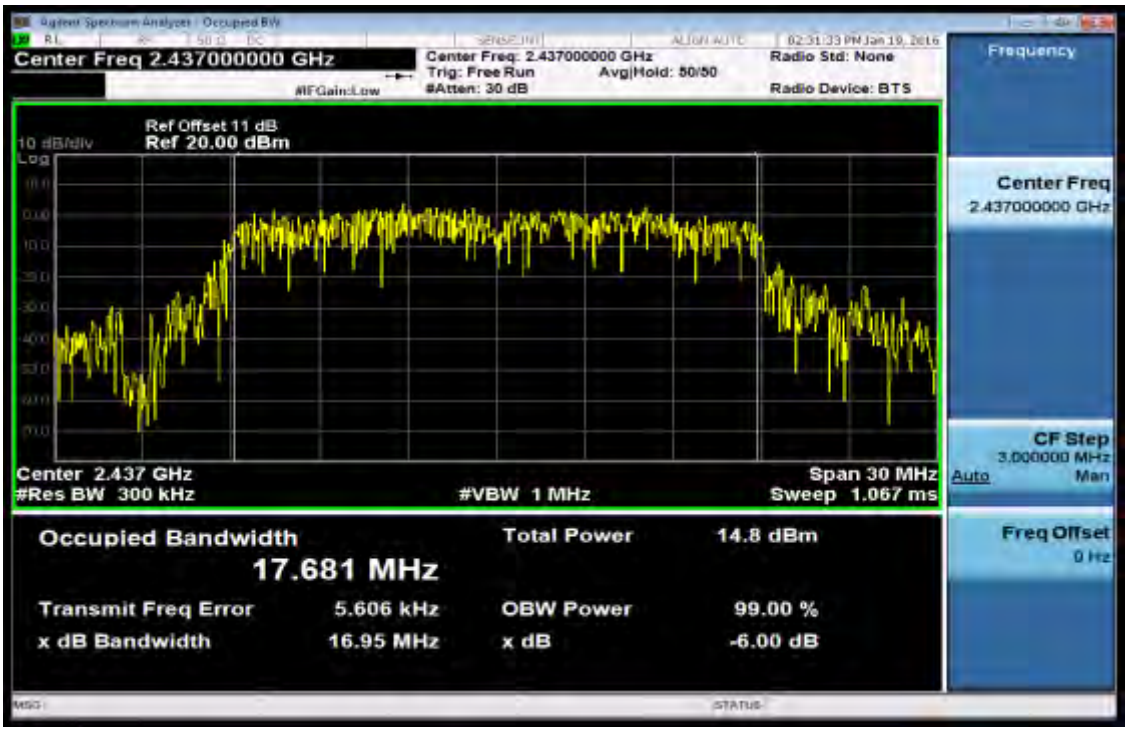
802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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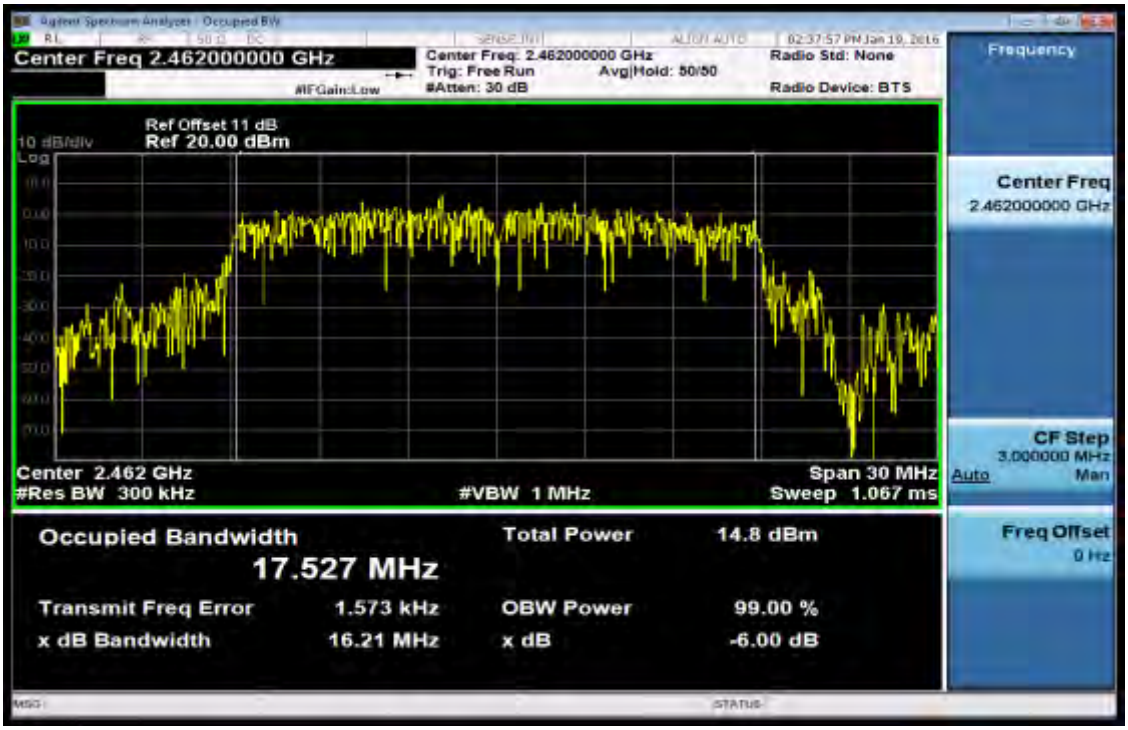
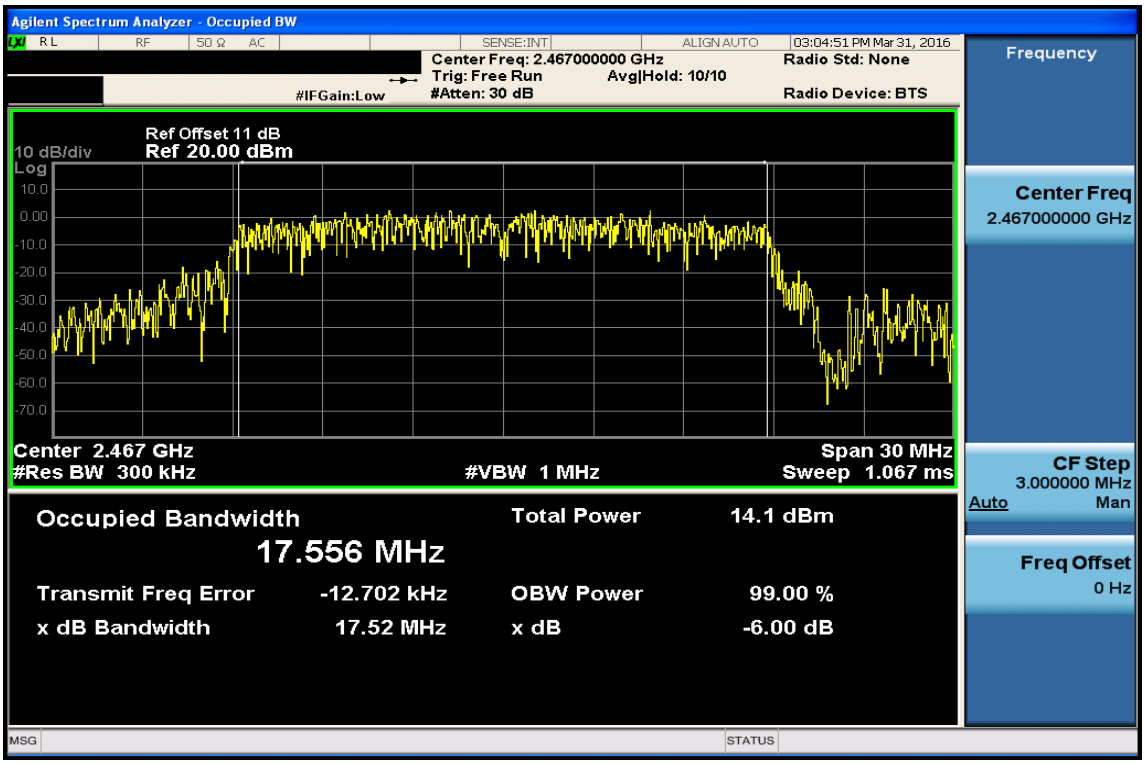
99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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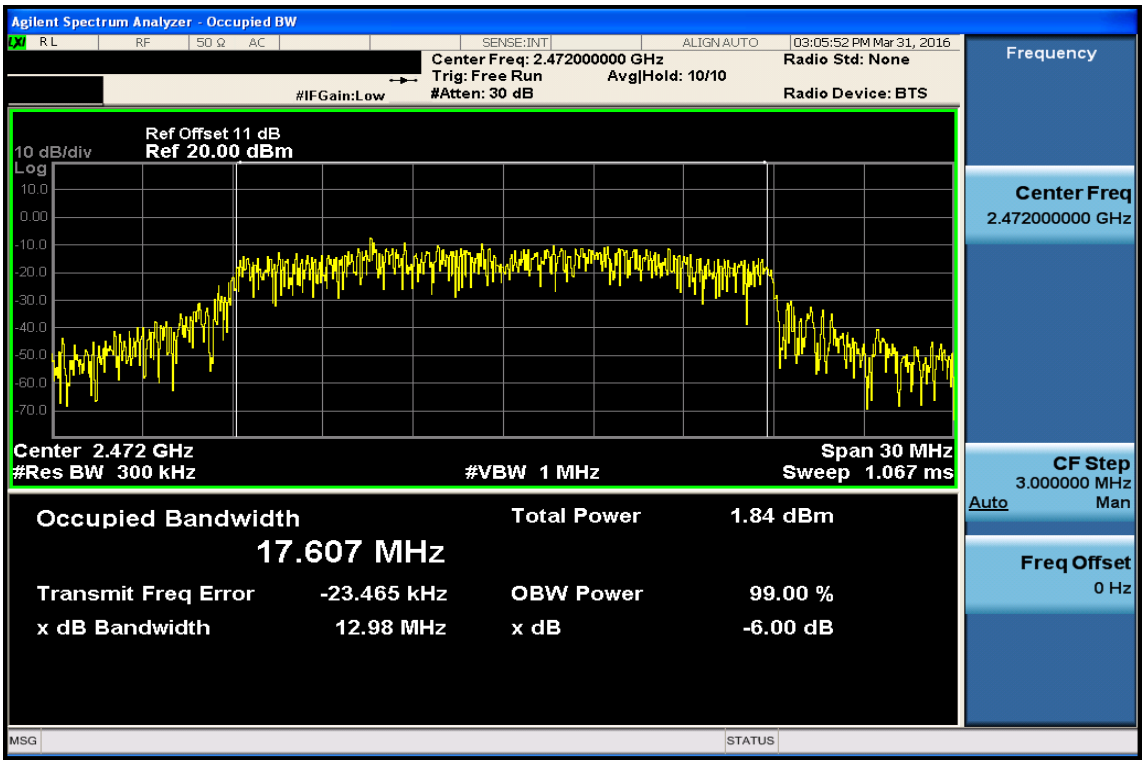
99% Band Width Test Data CH-13



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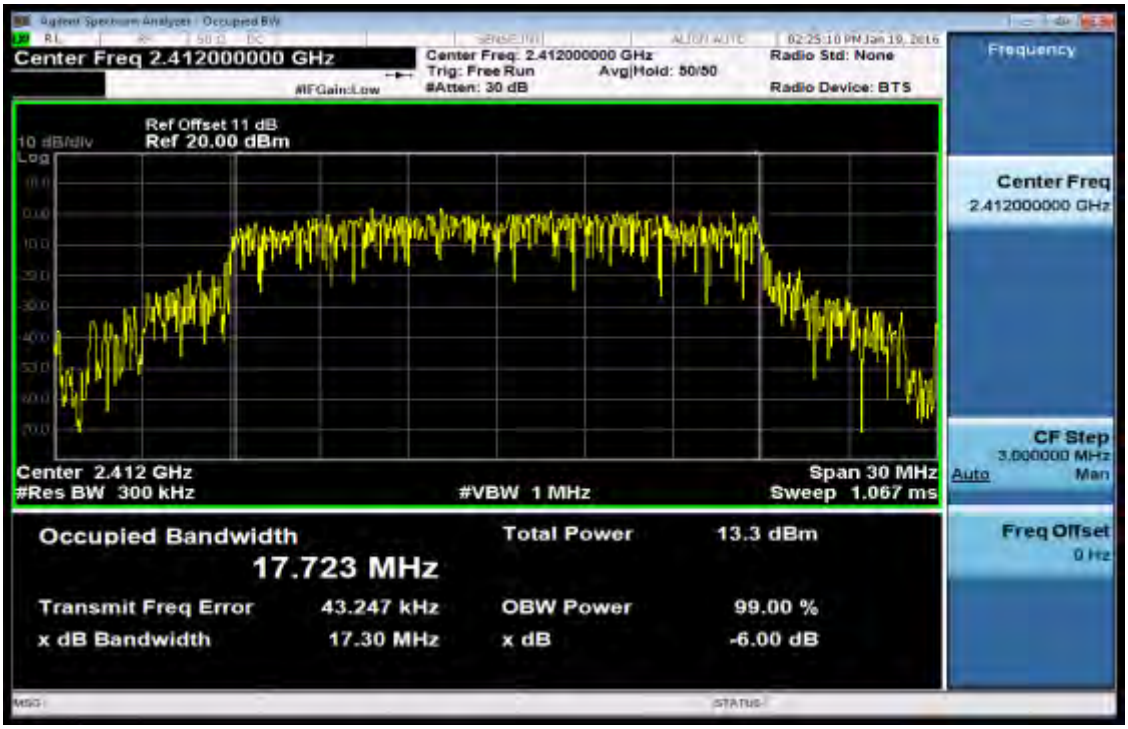
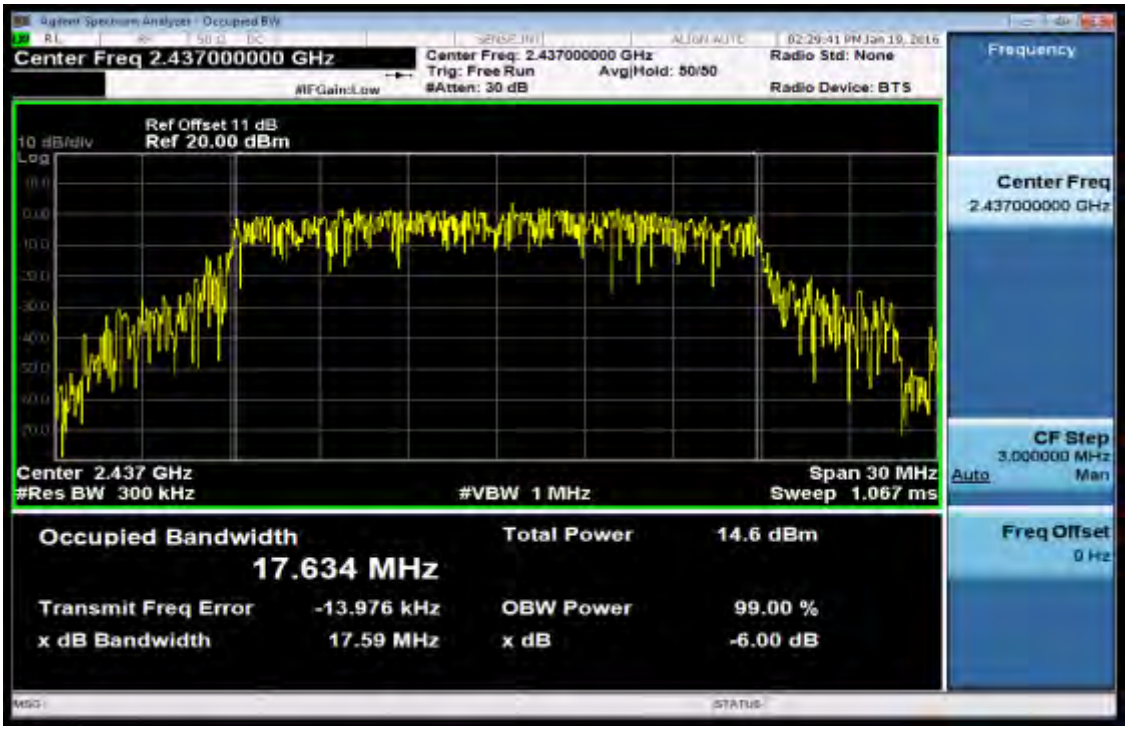
802.11n_20M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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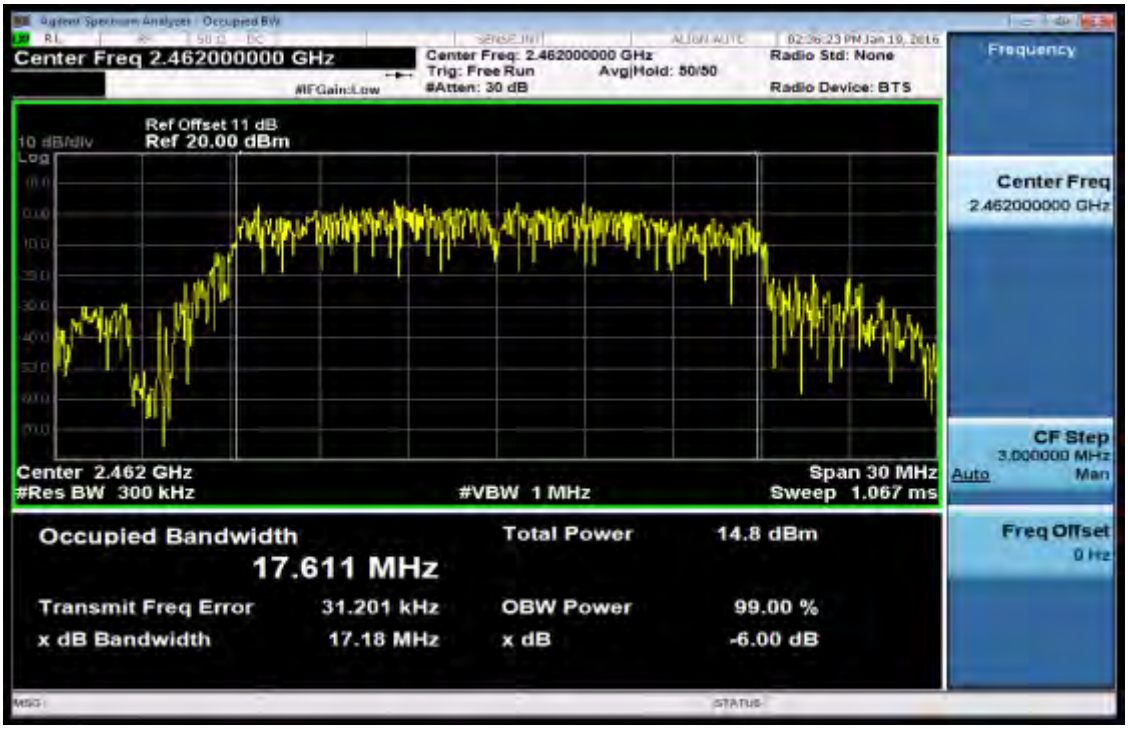
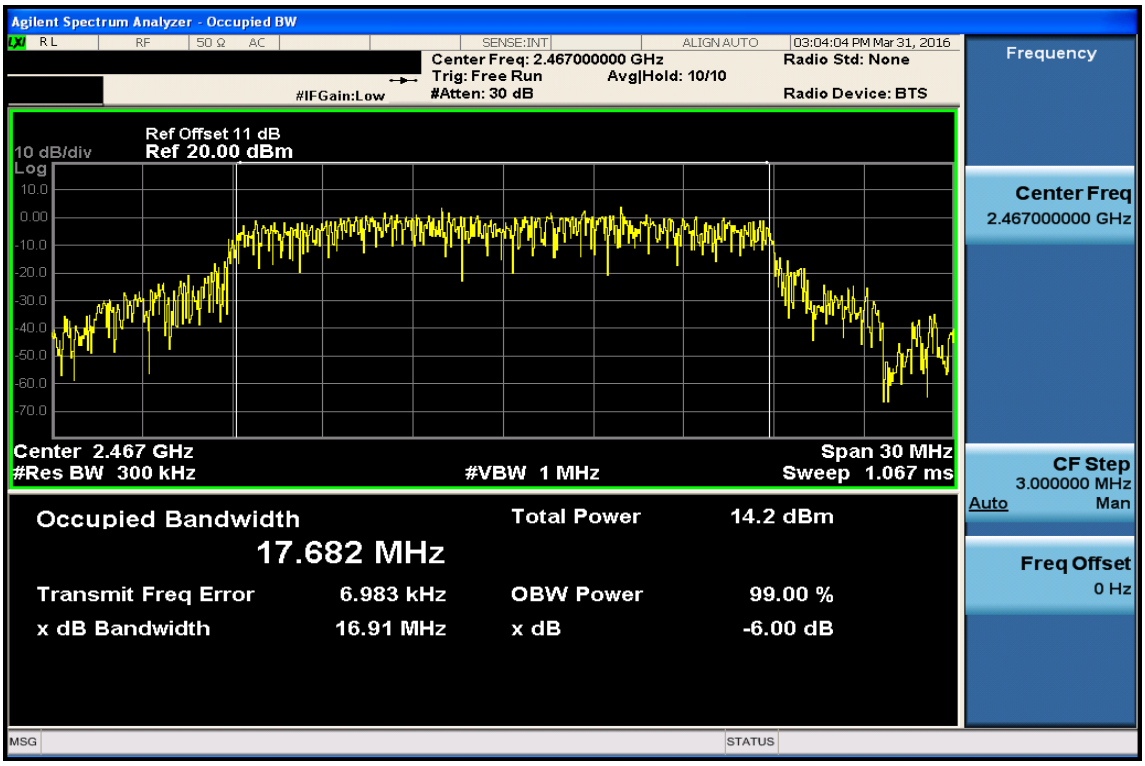
99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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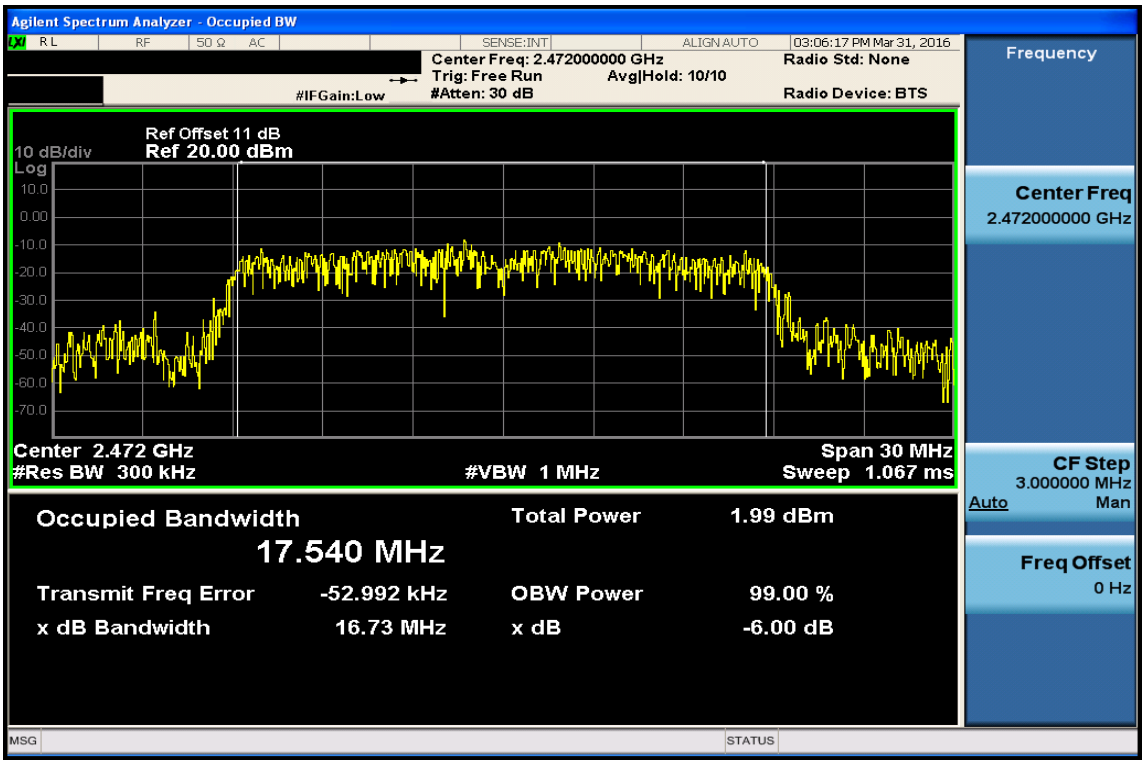
99% Band Width Test Data CH-13



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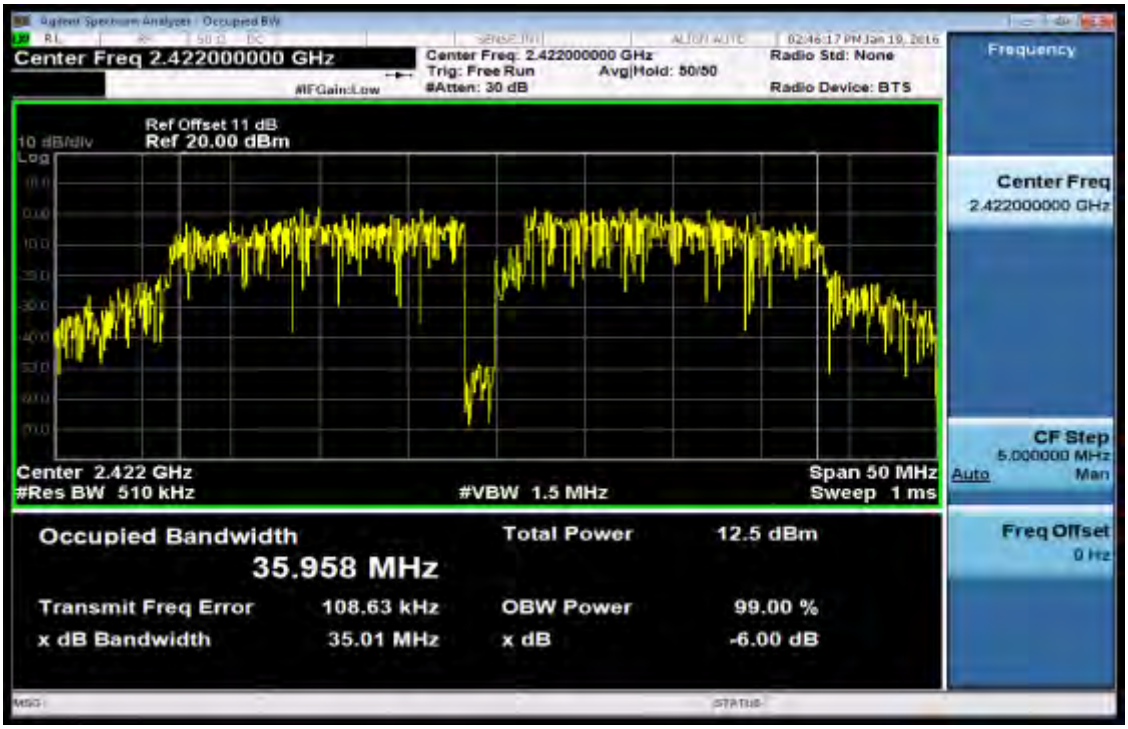
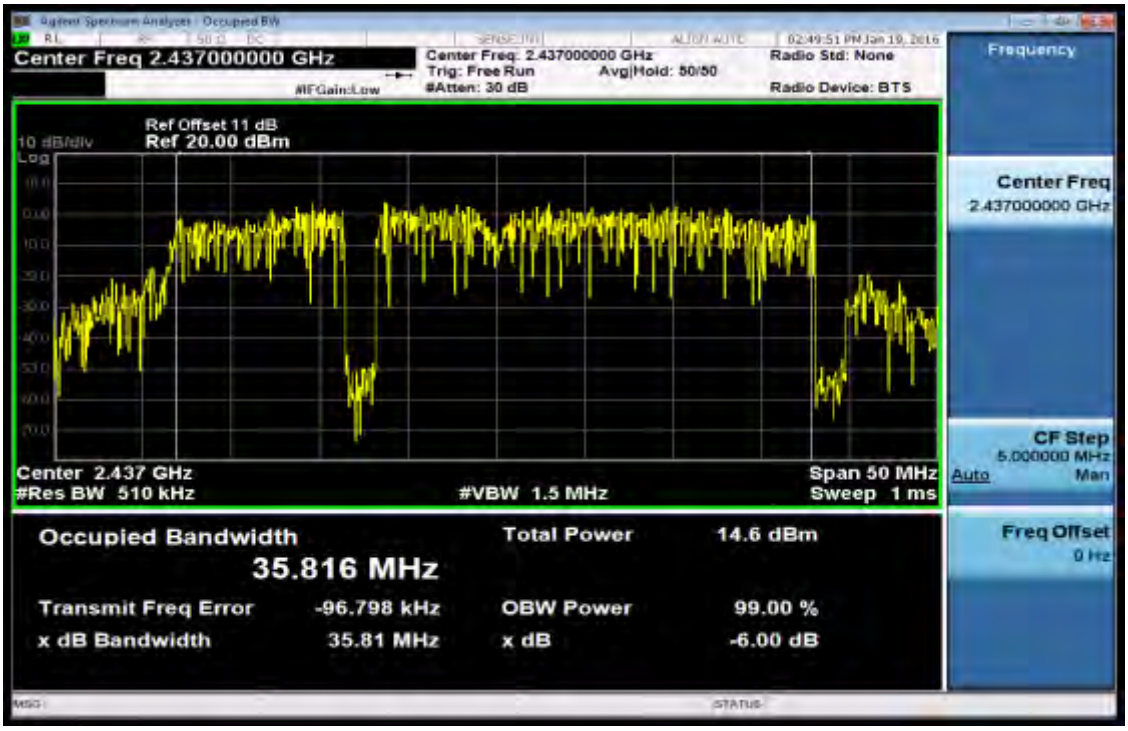
802.11n_40M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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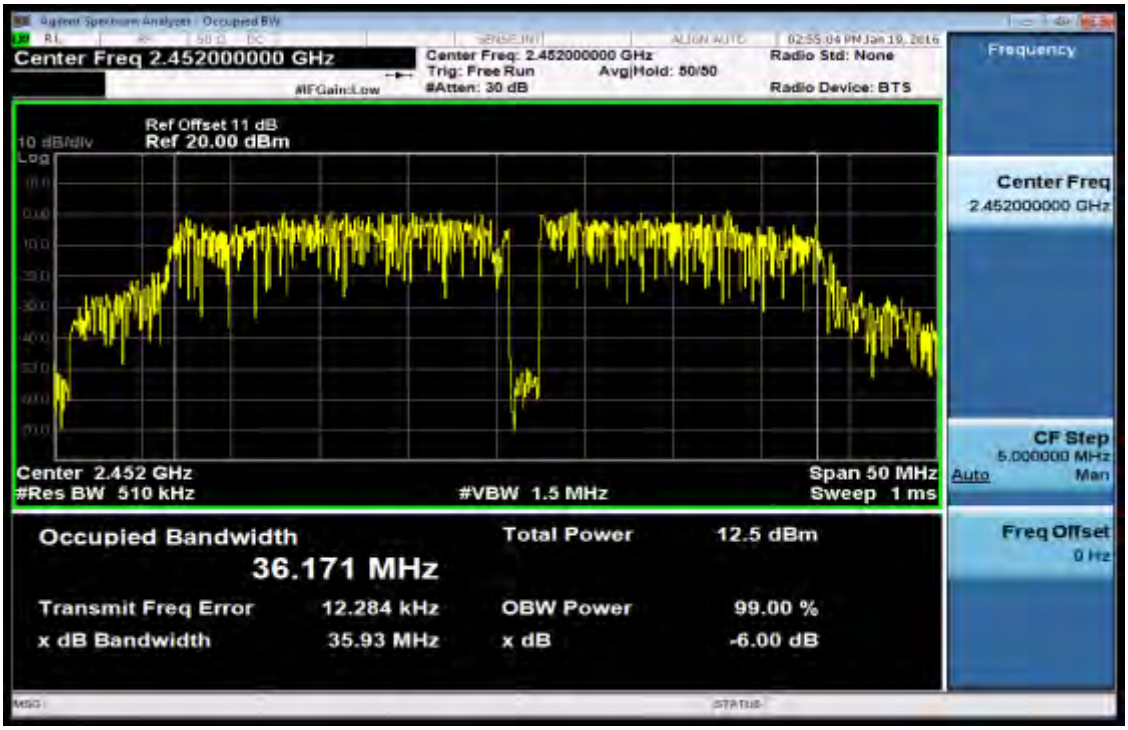
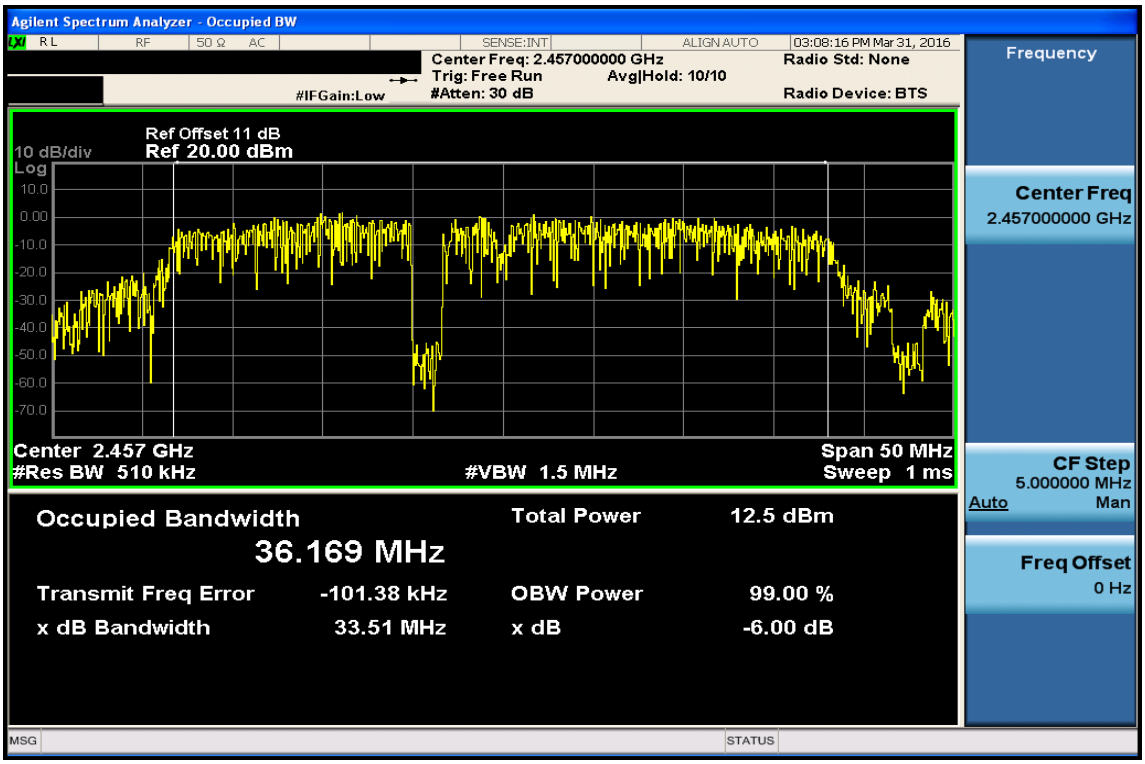
99% Band Width Test Data CH-High



99% Band Width Test Data CH-10



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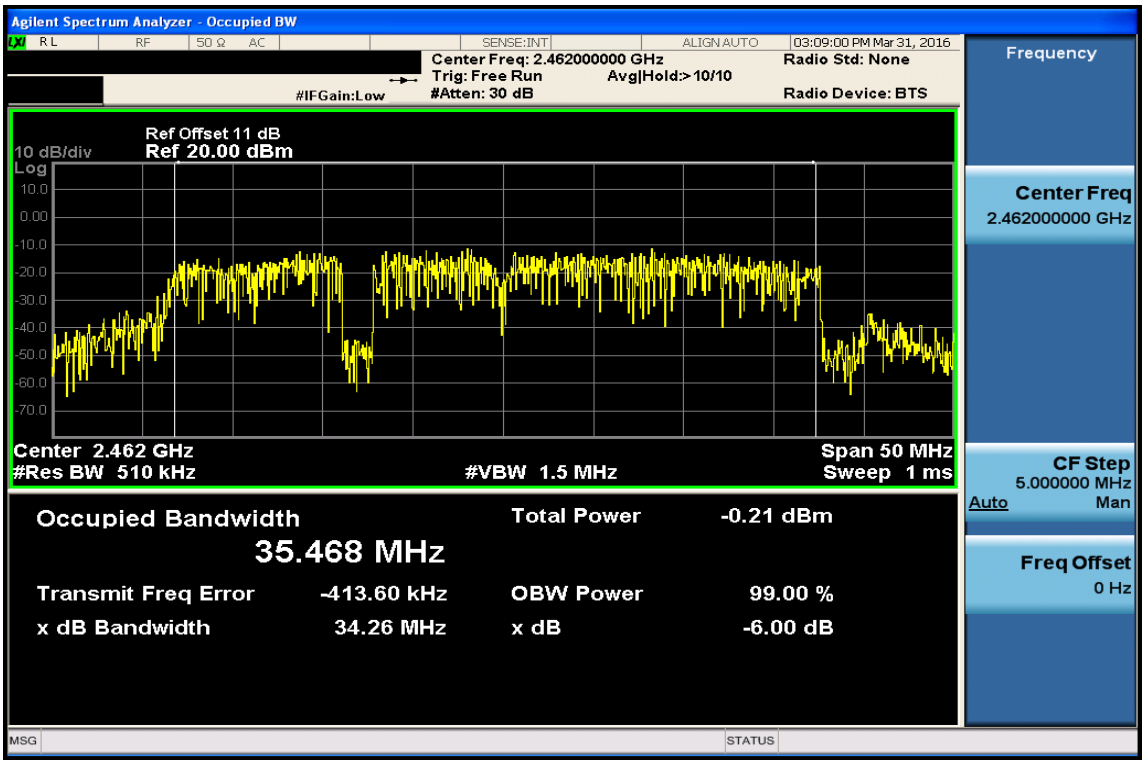
99% Band Width Test Data CH-11



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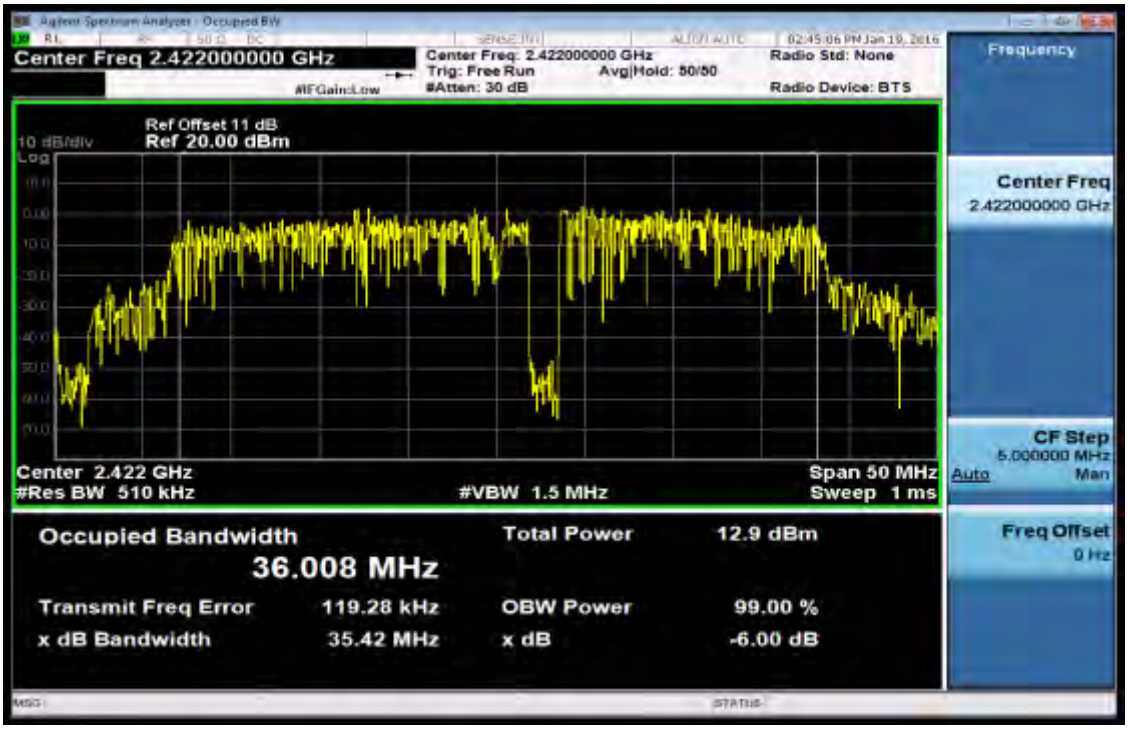
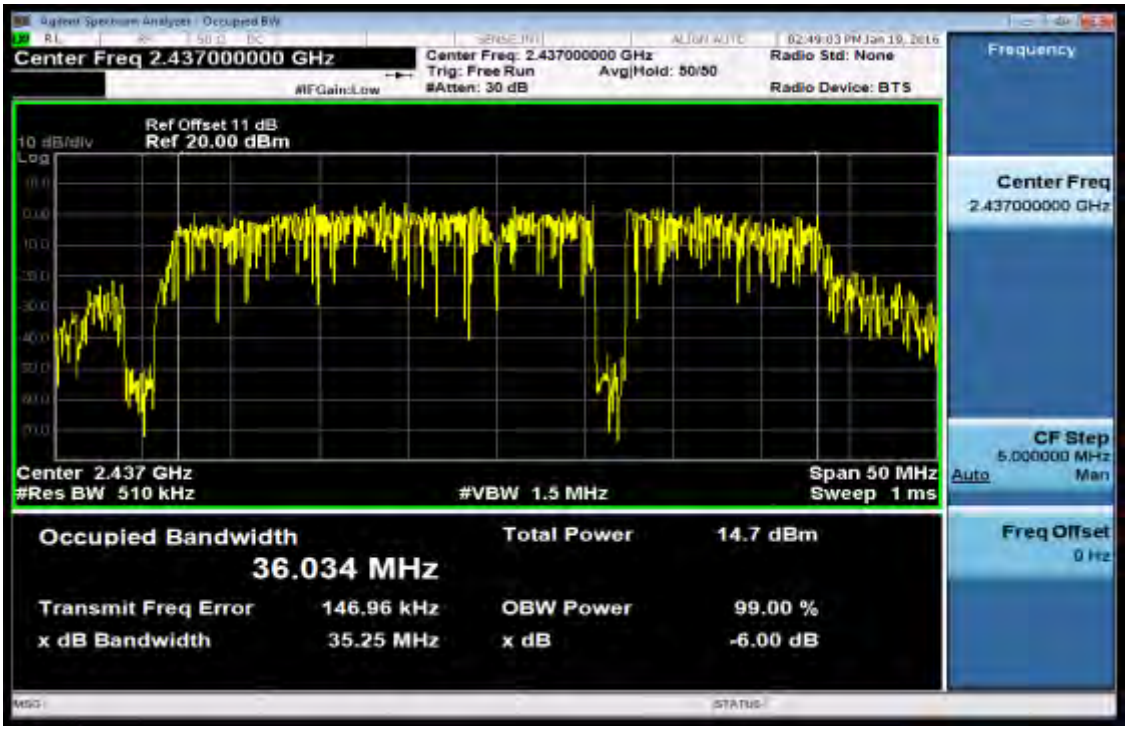
802.11n_40M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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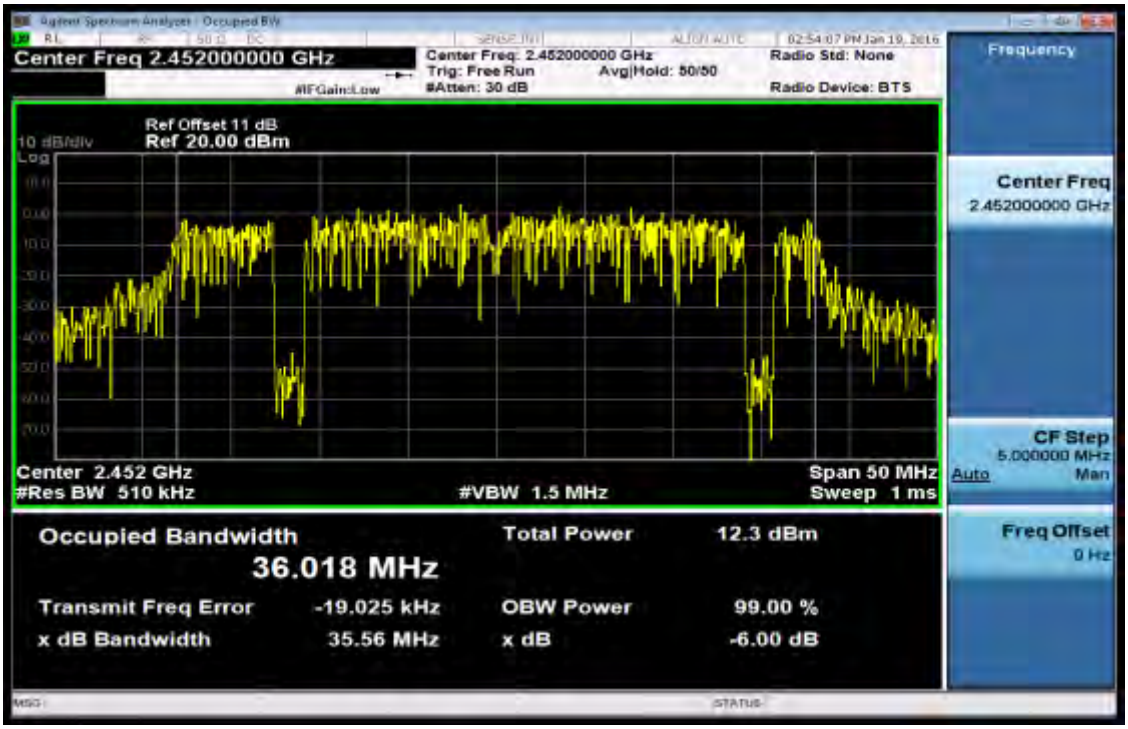
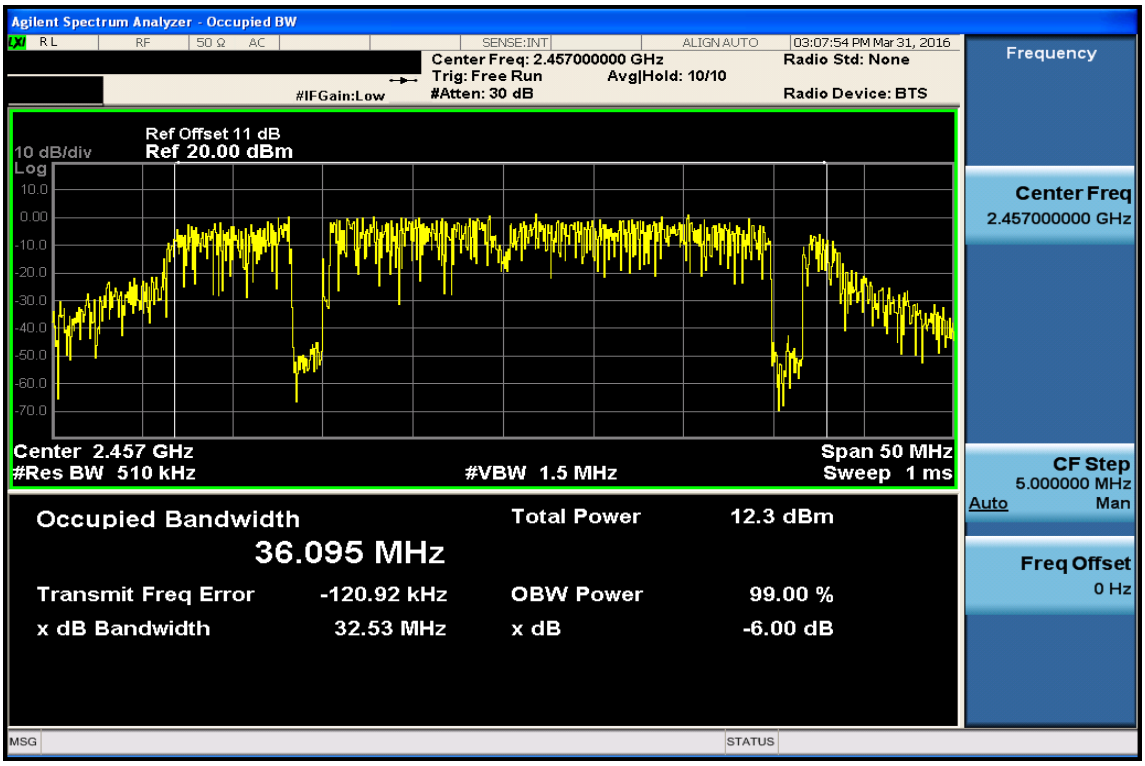
99% Band Width Test Data CH-High



99% Band Width Test Data CH-10



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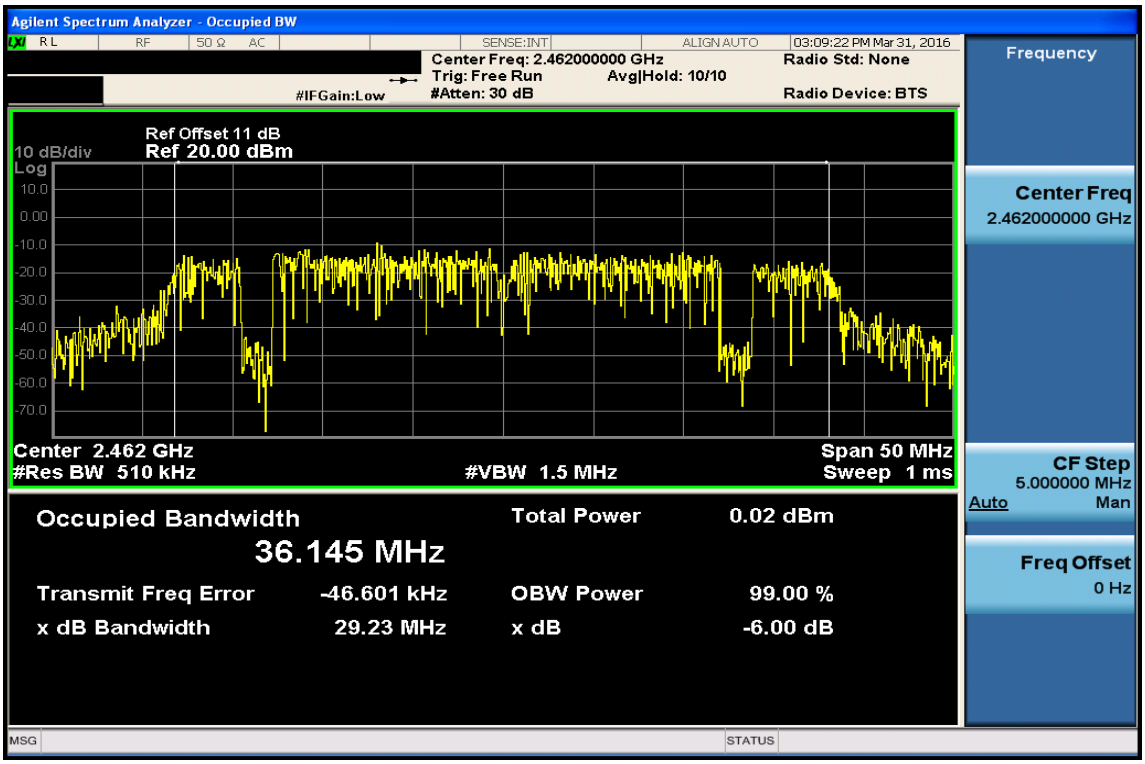
99% Band Width Test Data CH-11



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

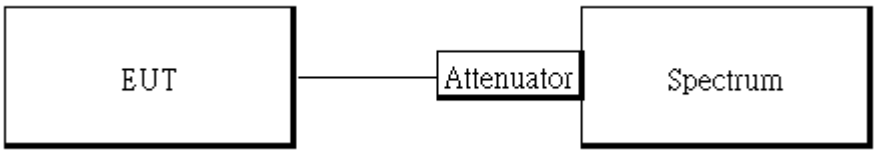
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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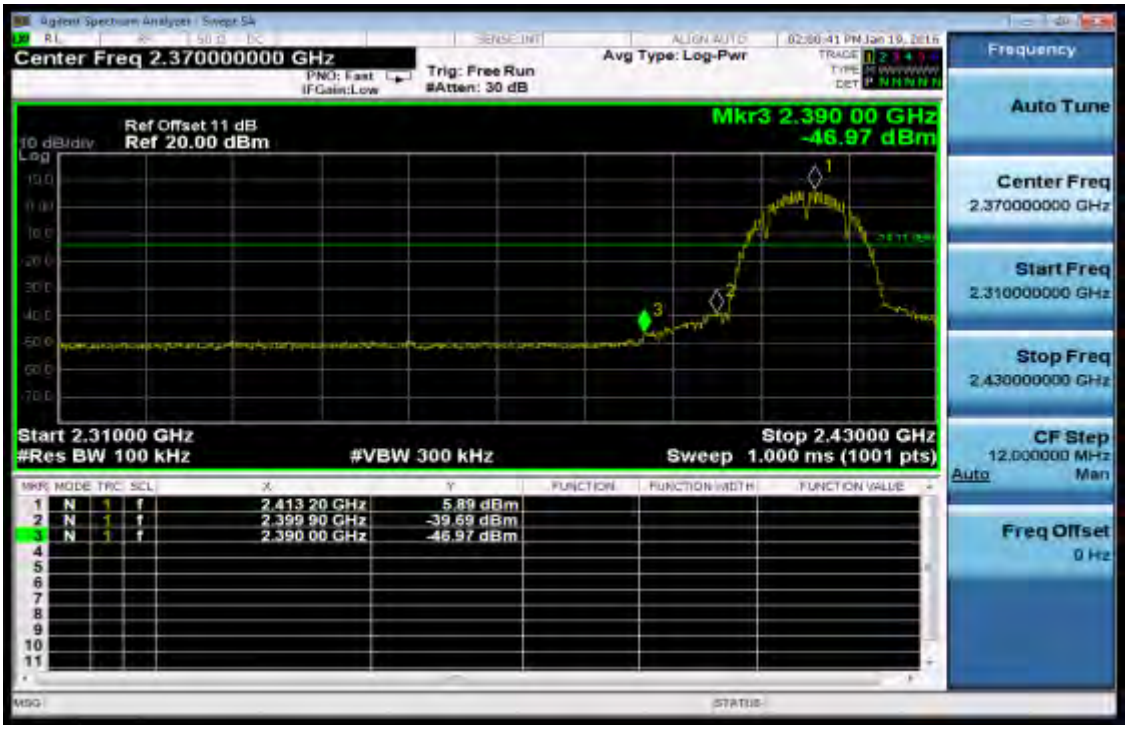
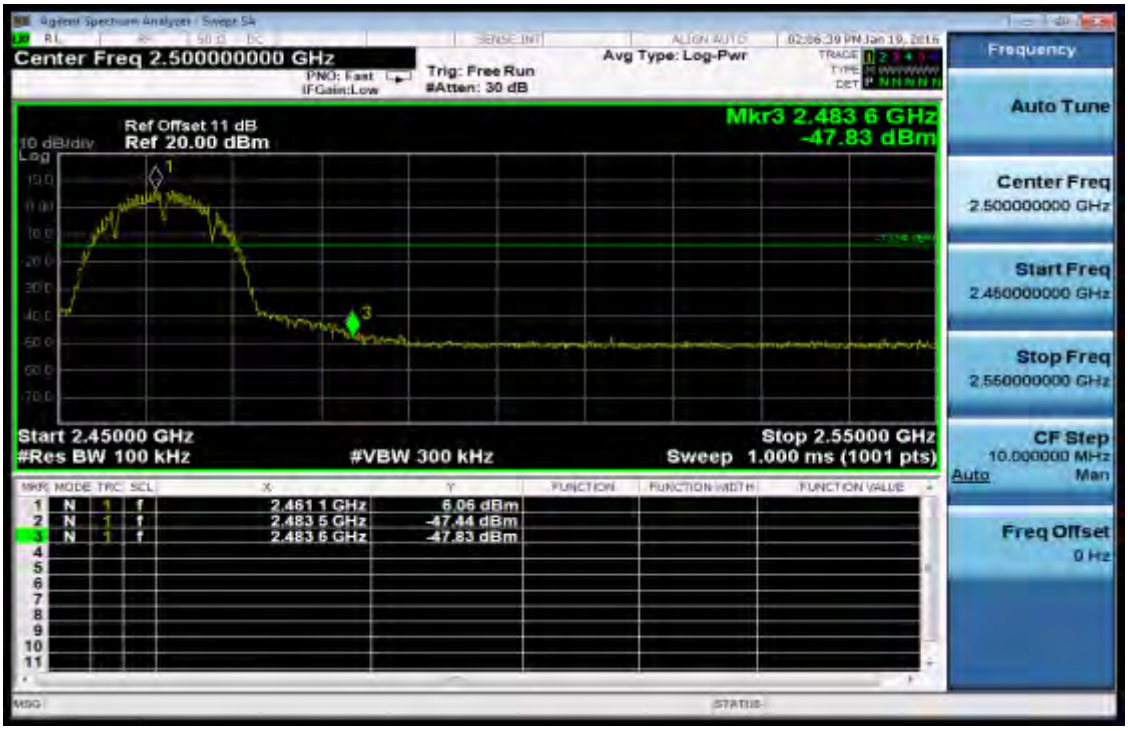
802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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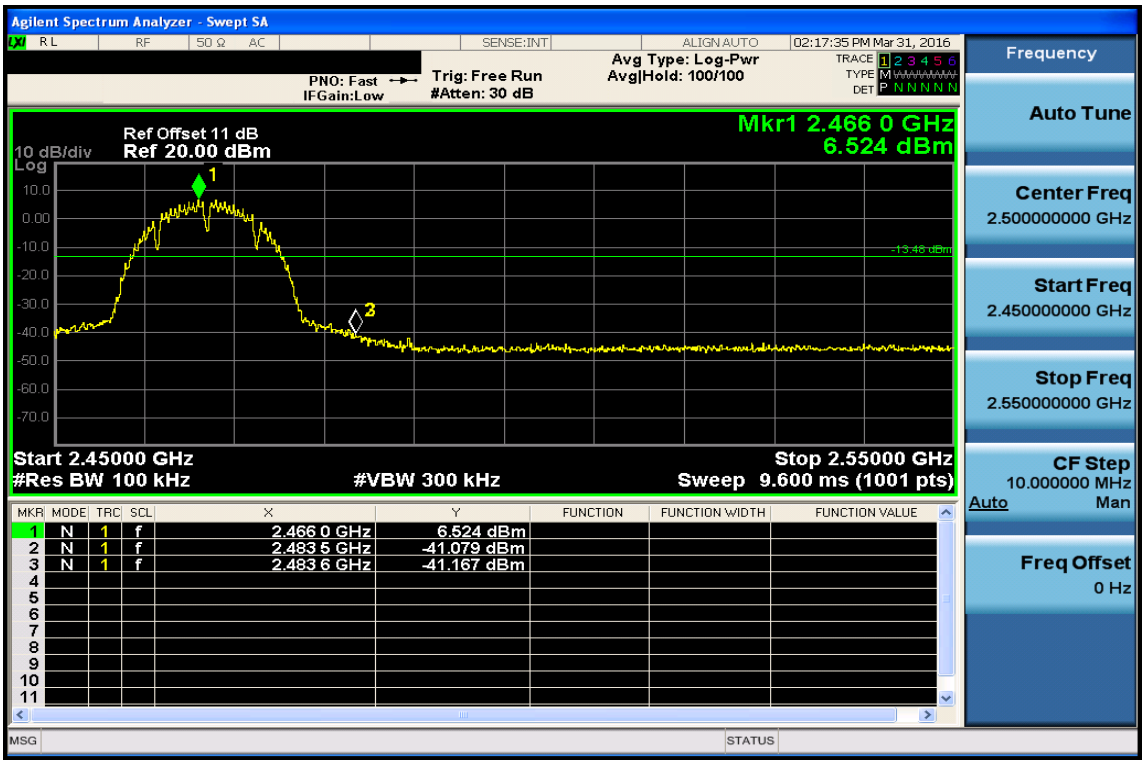
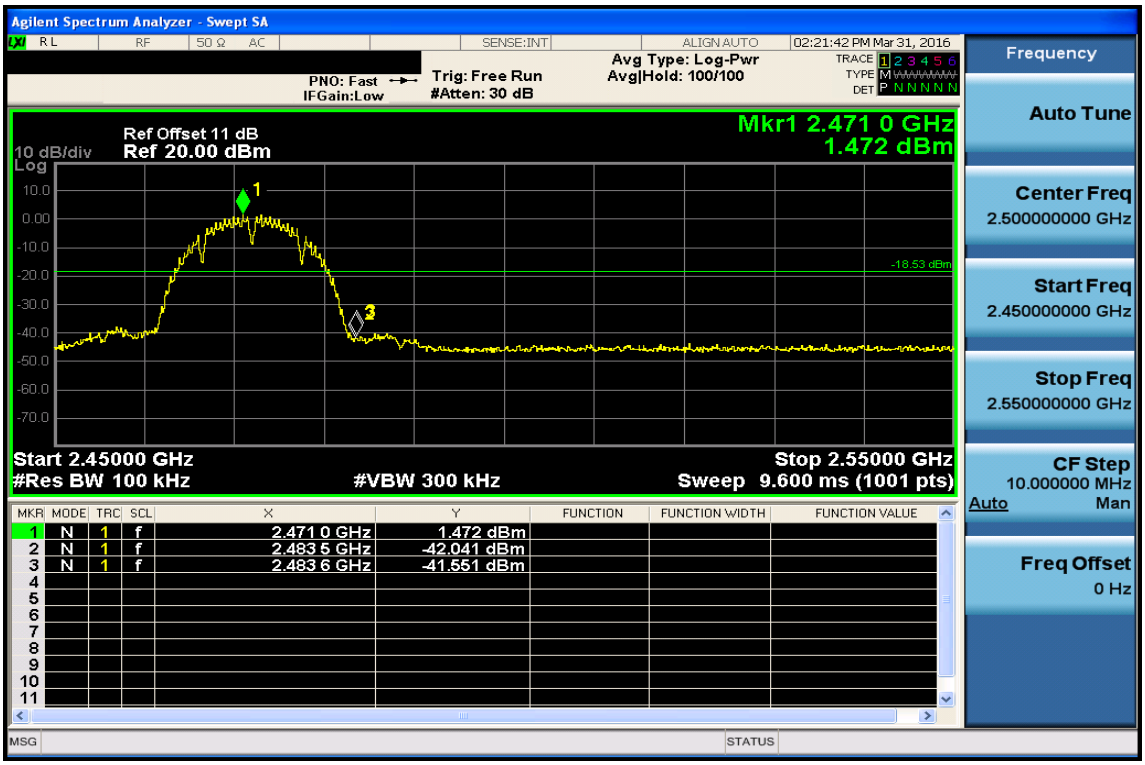
Band Edges Test Data CH-12



Band Edges Test Data CH-13



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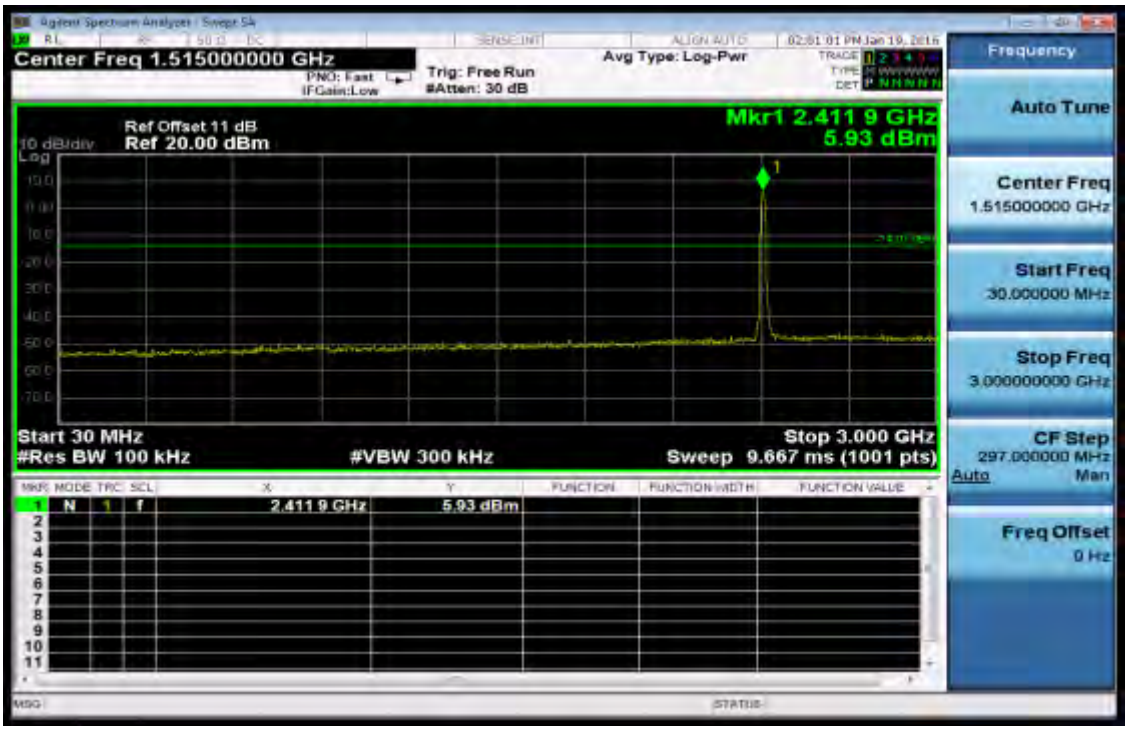
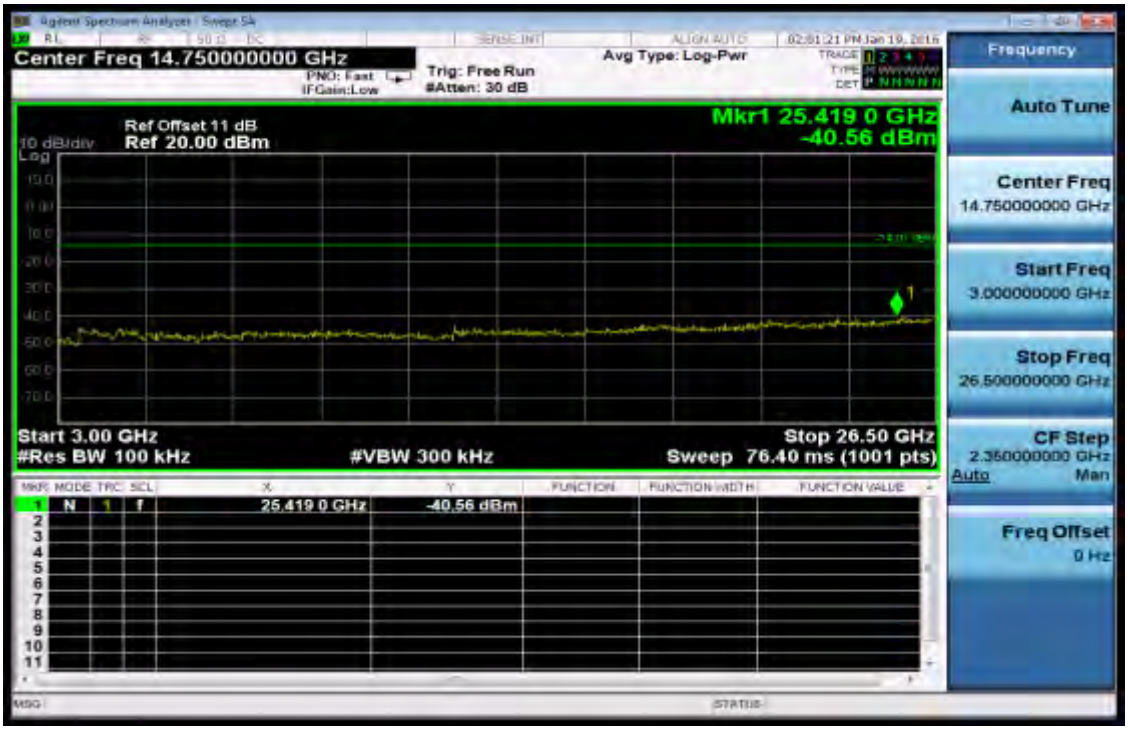
802.11b

Spurious Emission Test Data CH-Low





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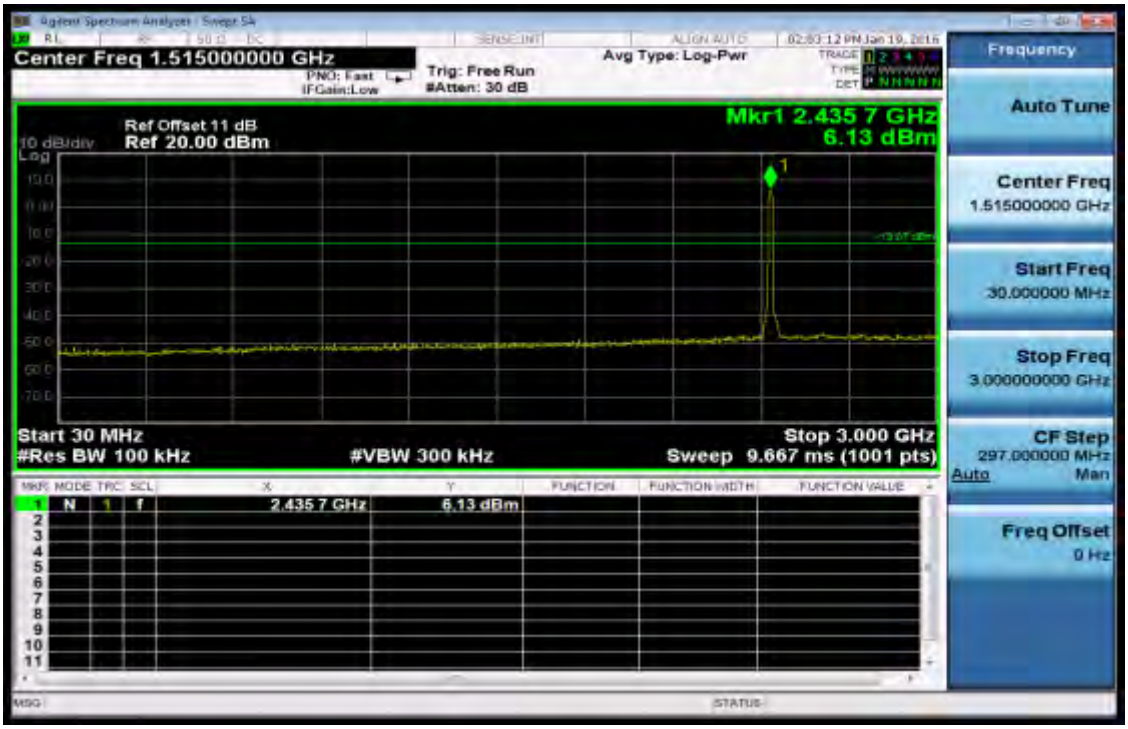
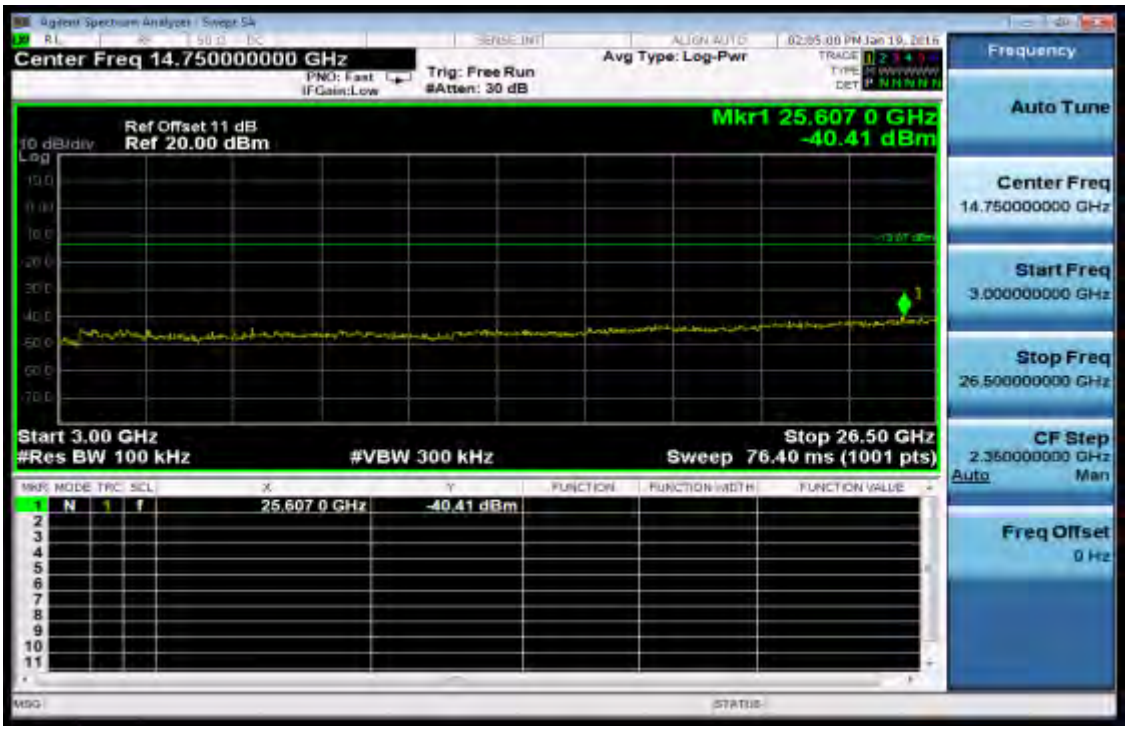
Spurious Emission Test Data CH-Mid





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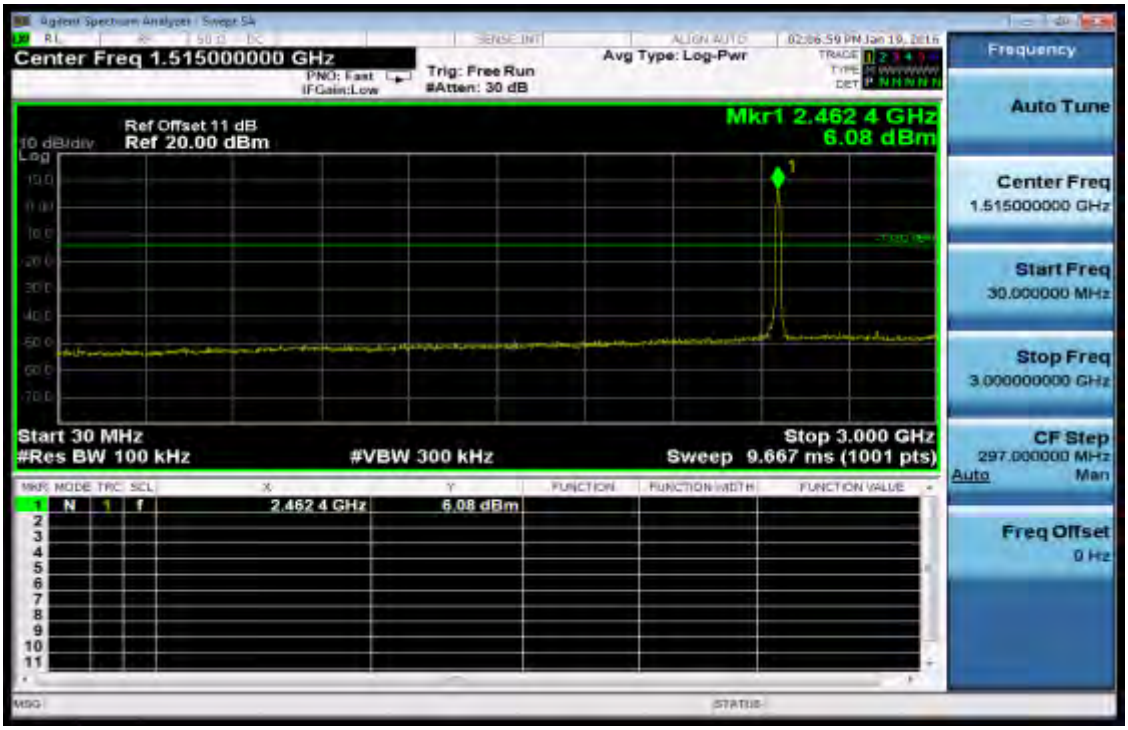
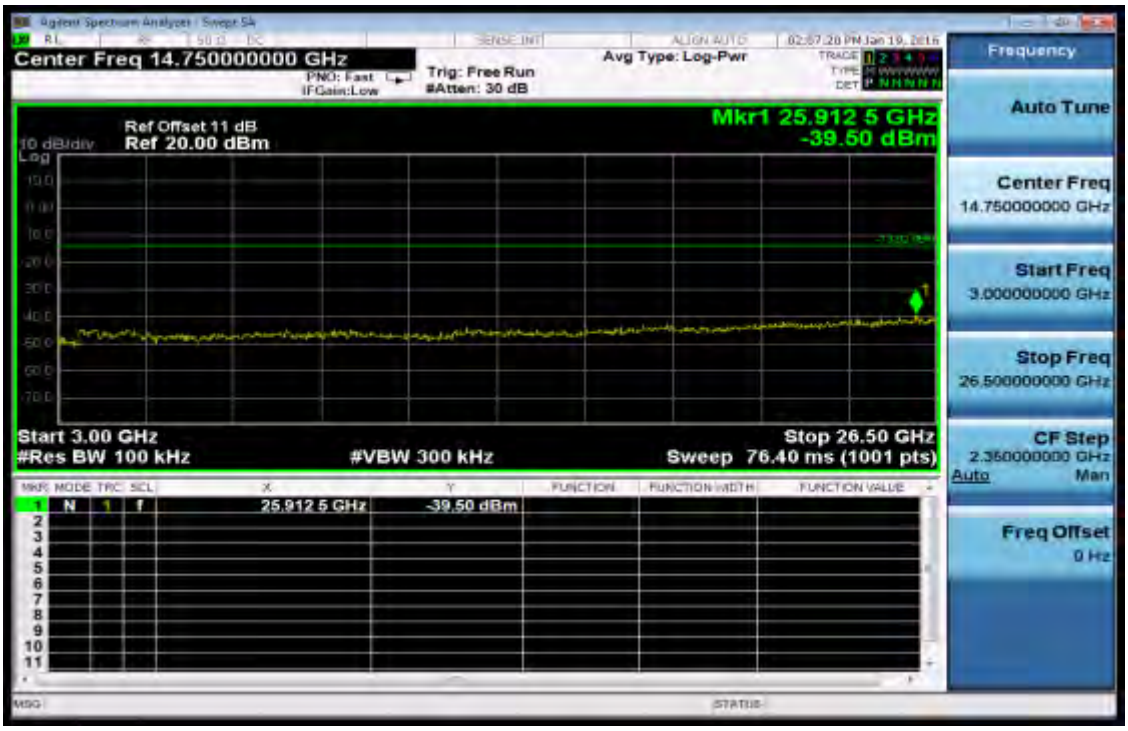
Spurious Emission Test Data CH-High





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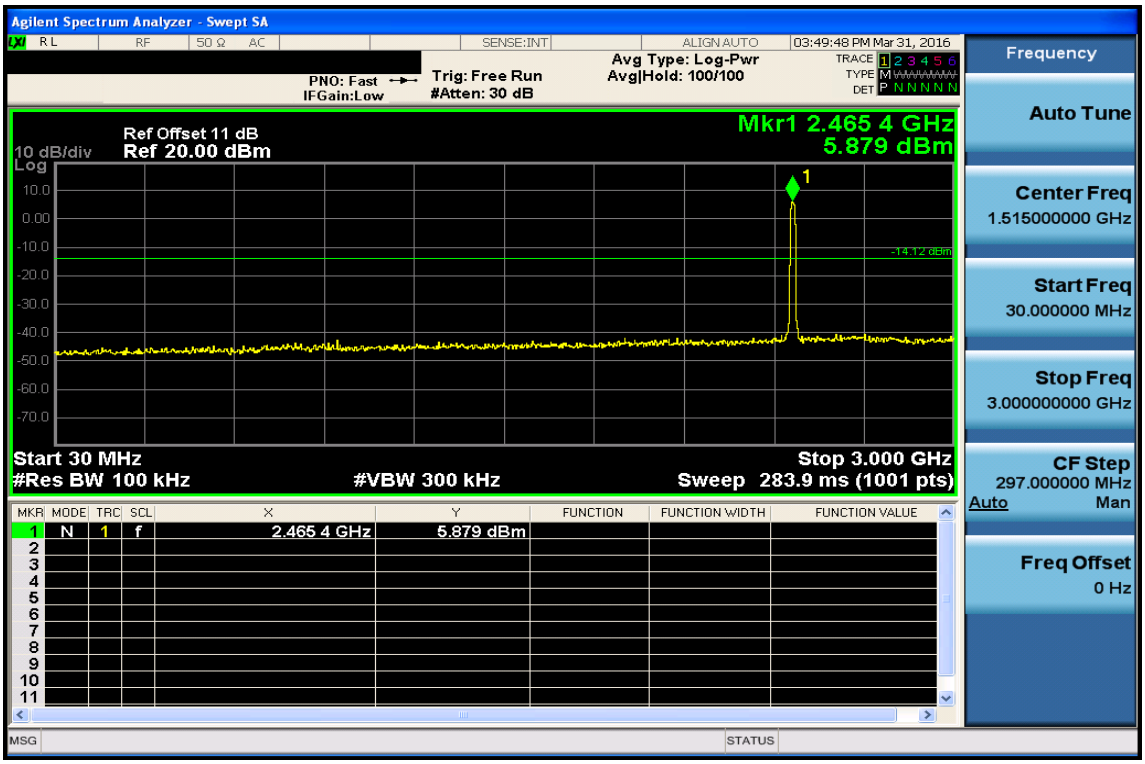
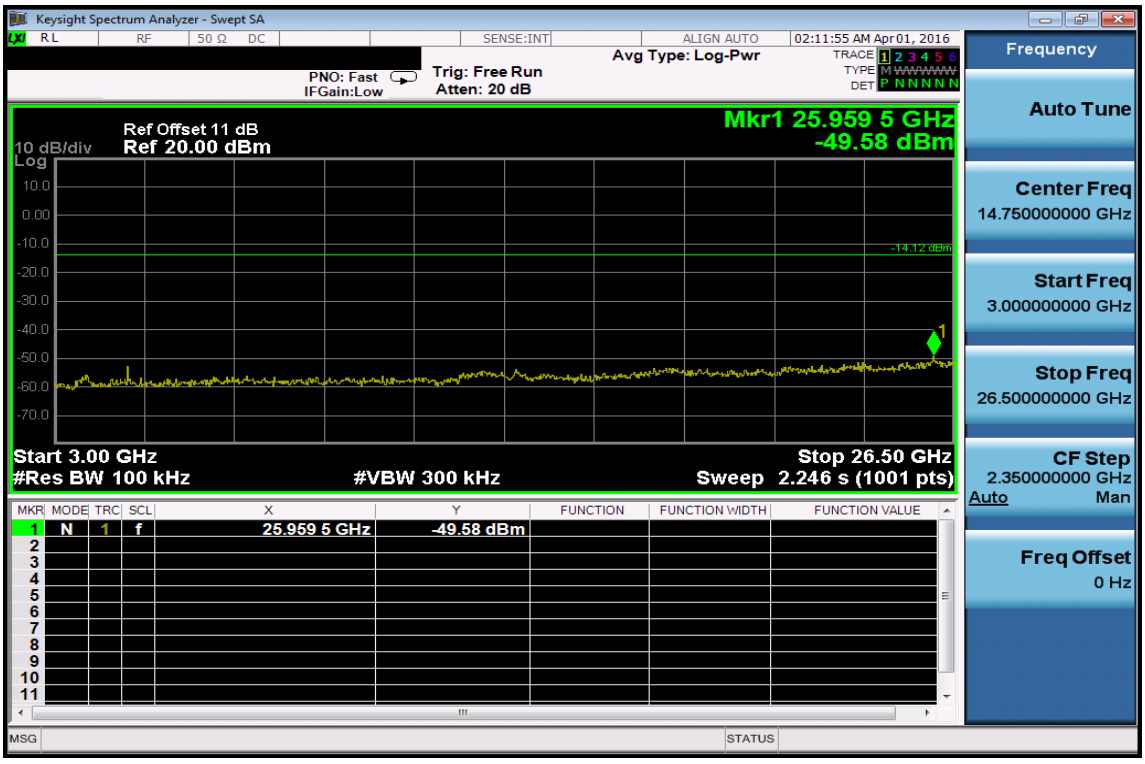
Spurious Emission Test Data CH-12





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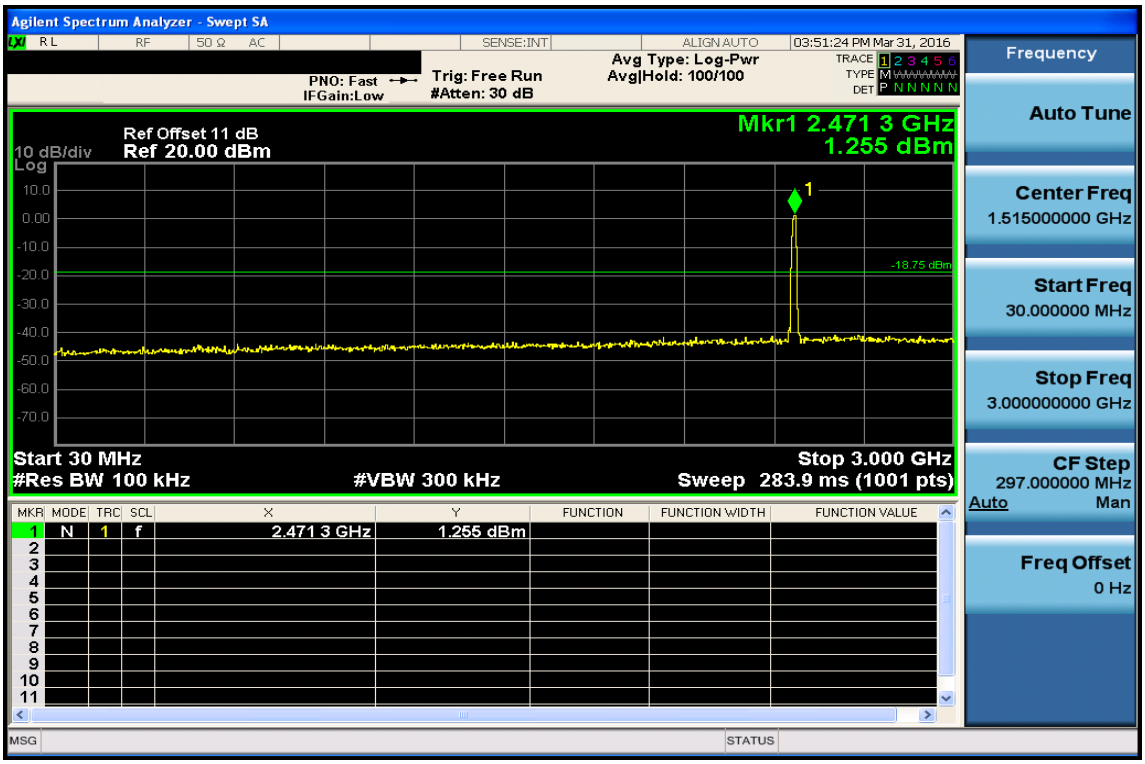
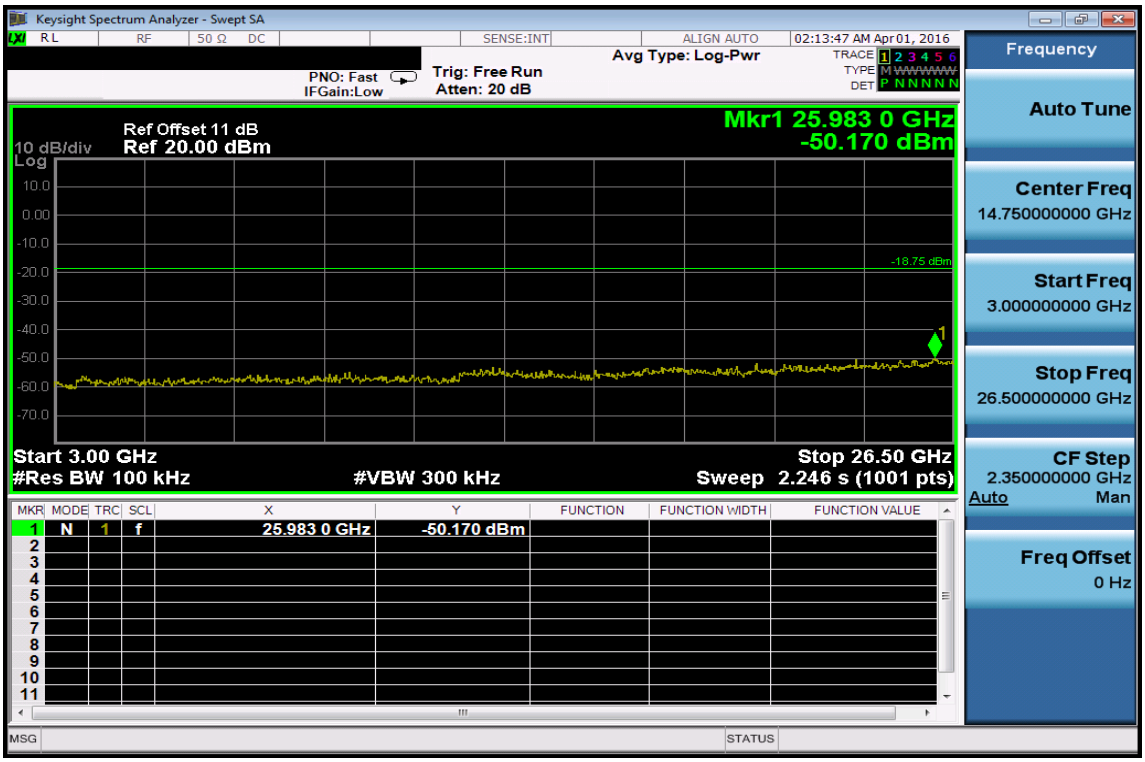
Spurious Emission Test Data CH-13





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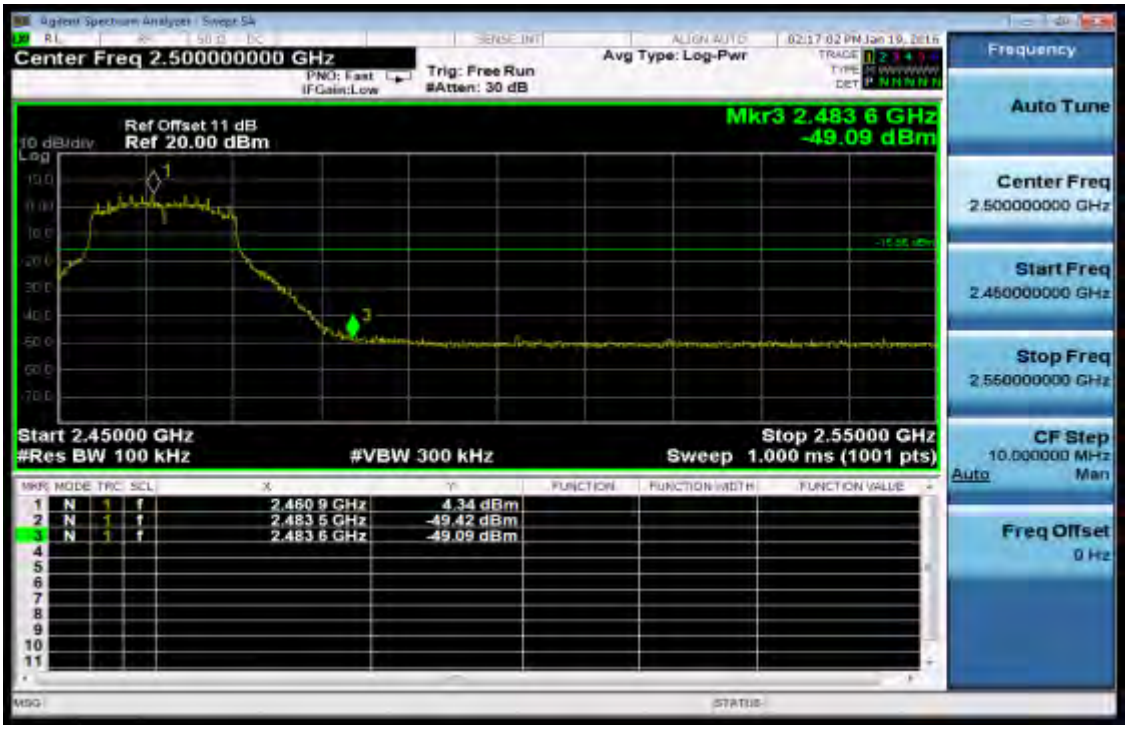
802.11g

Band Edges Test Data CH-Low

Band Edges Test Data CH-High



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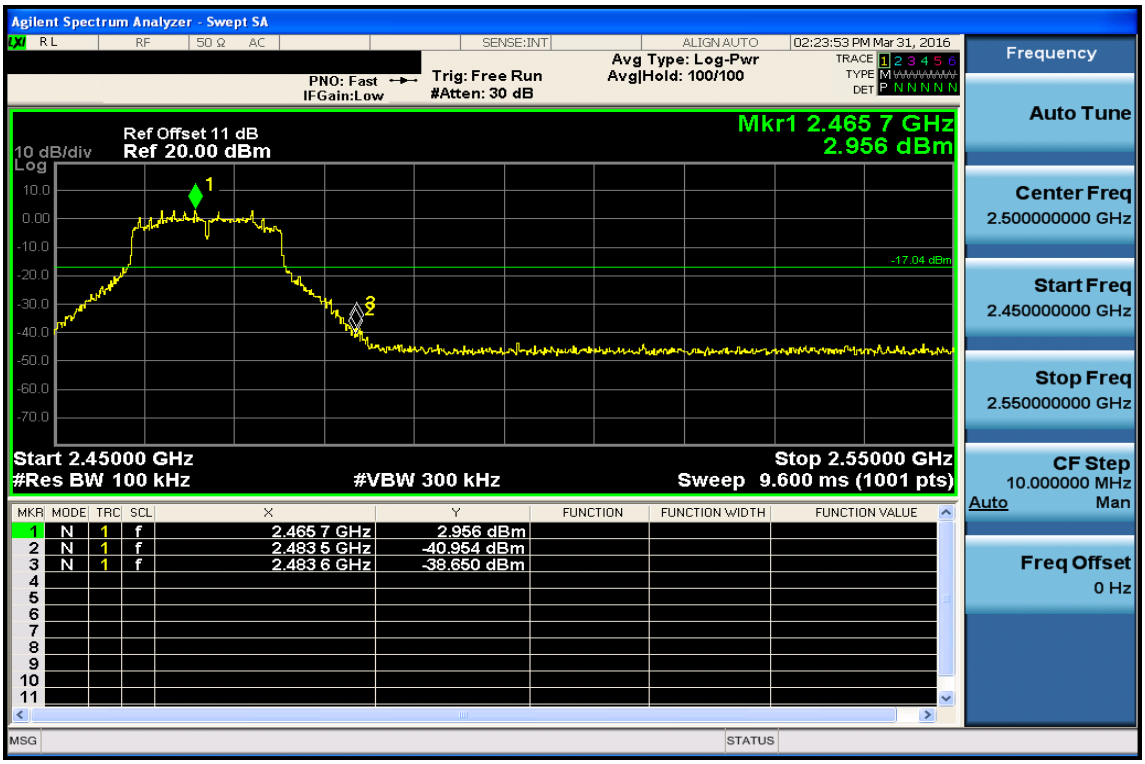
Band Edges Test Data CH-12



Band Edges Test Data CH-13

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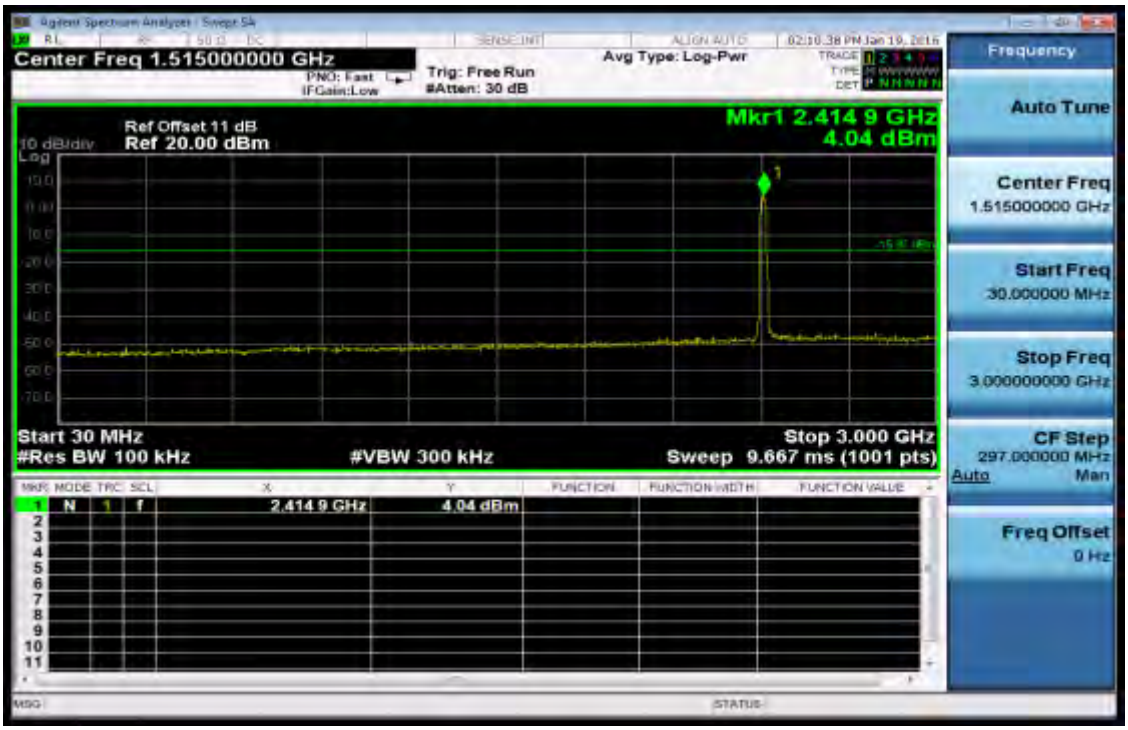
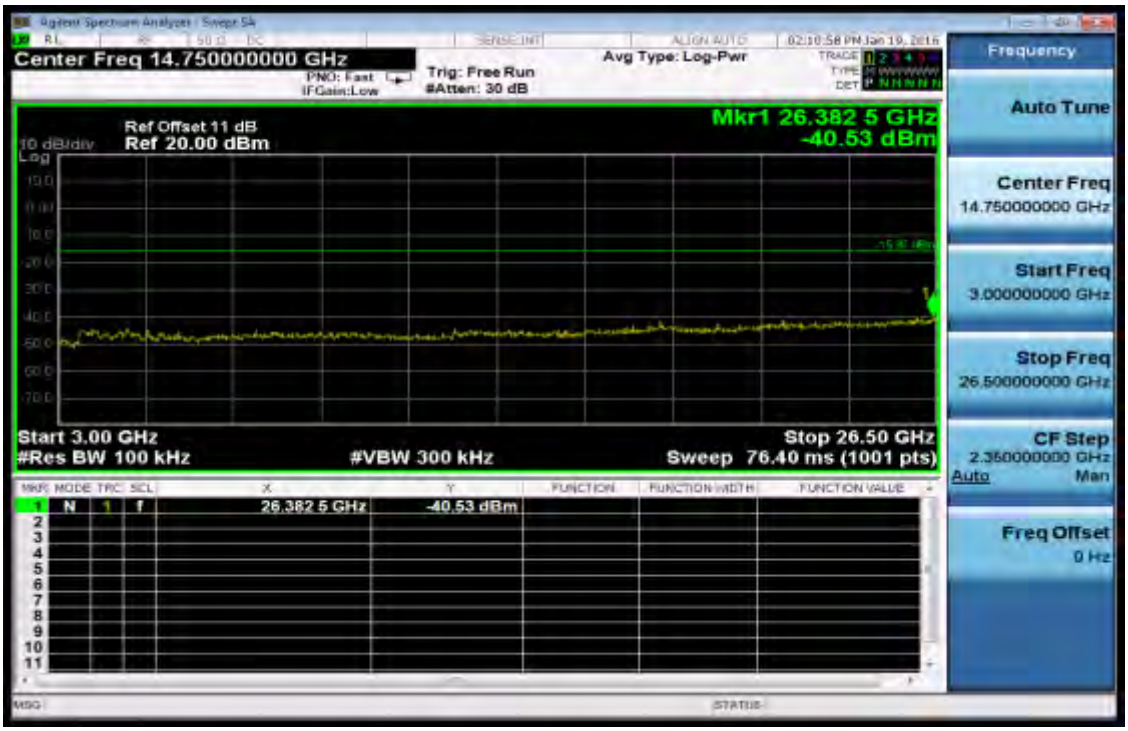
802.11g

Spurious Emission Test Data CH-Low





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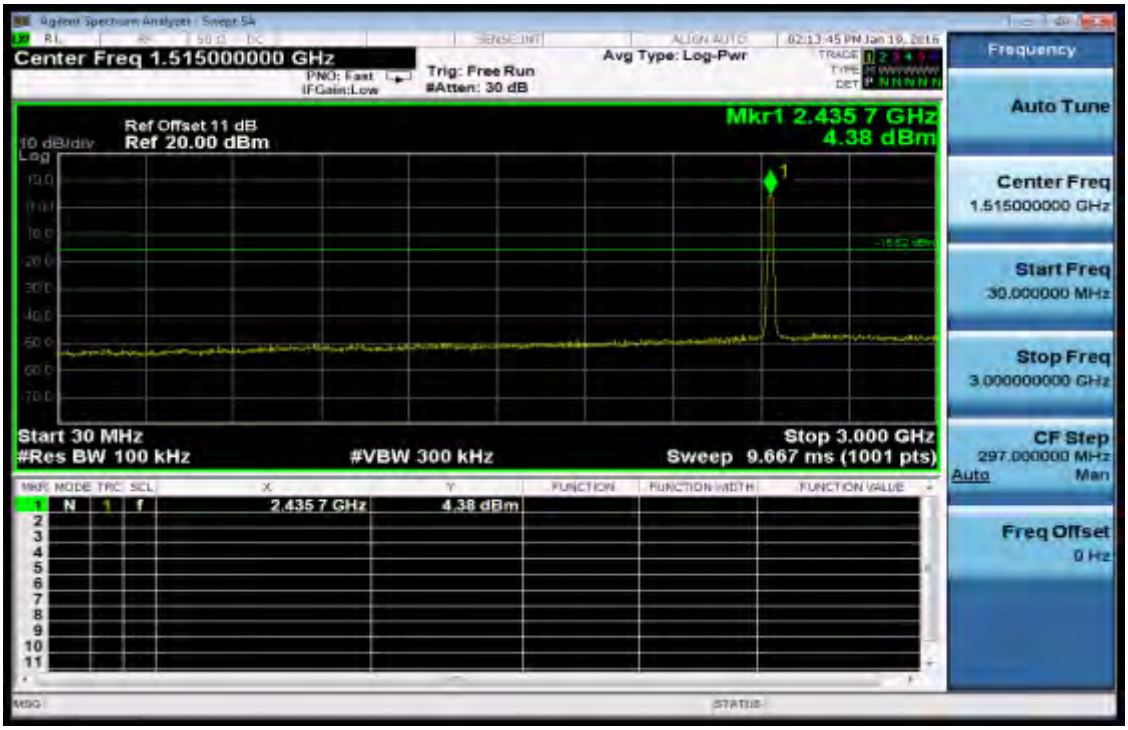
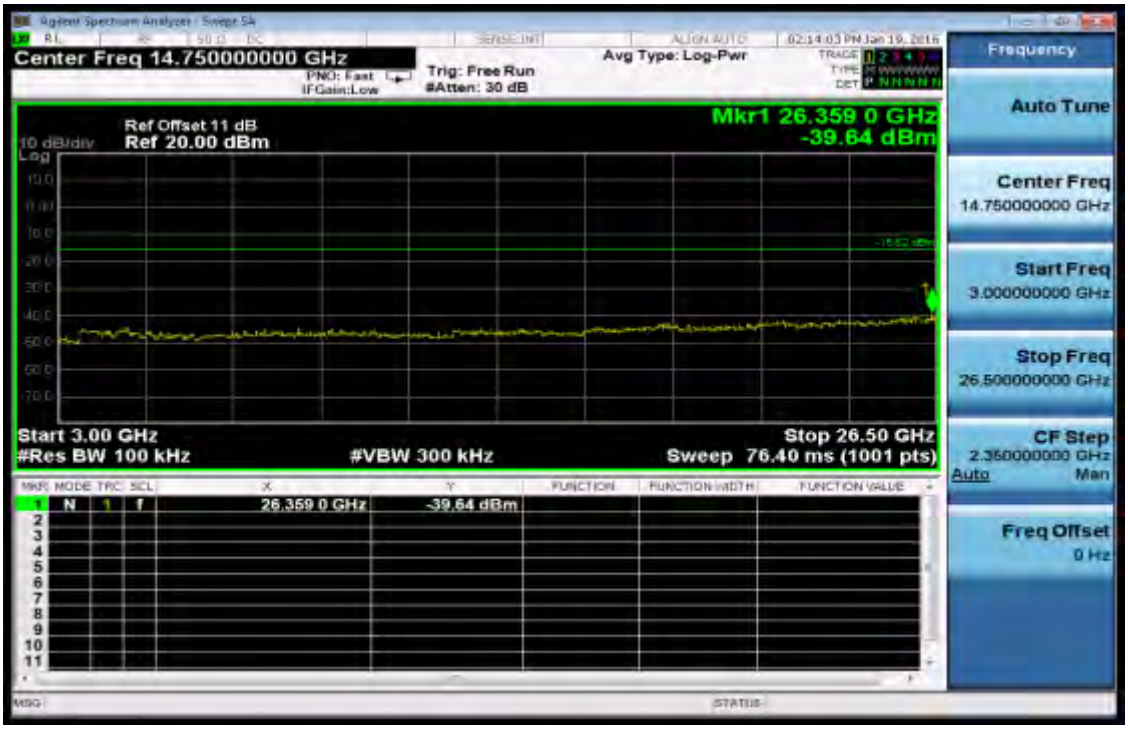
Spurious Emission Test Data CH-Mid





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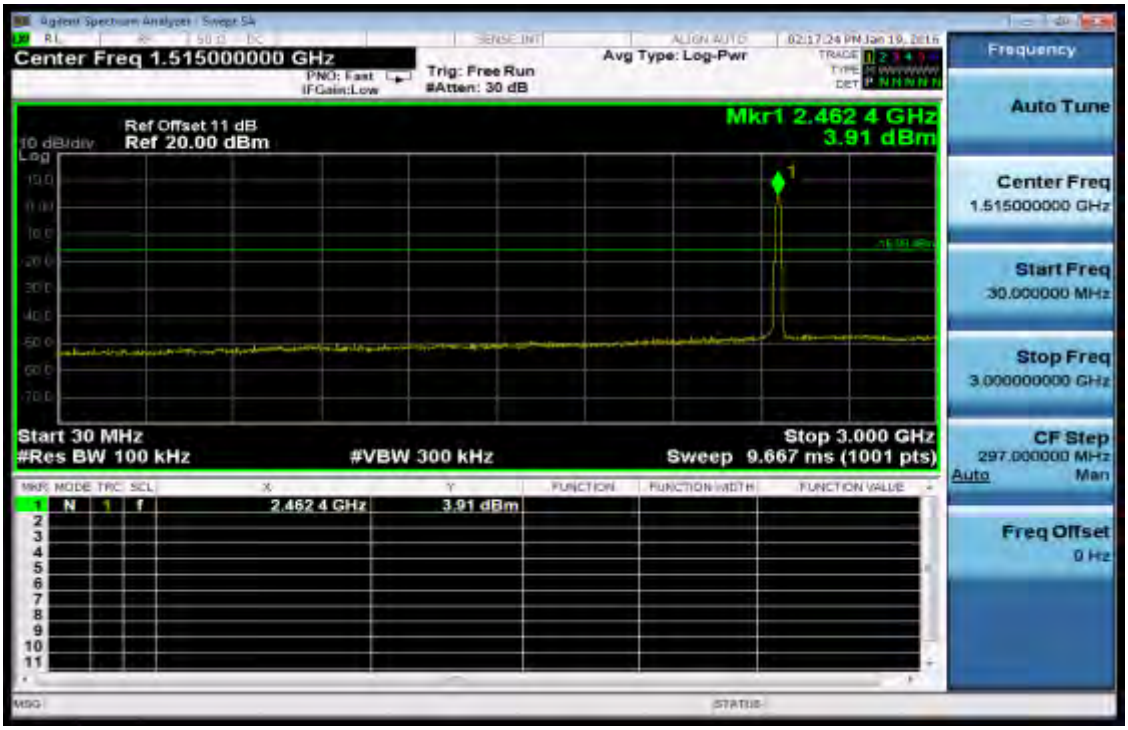
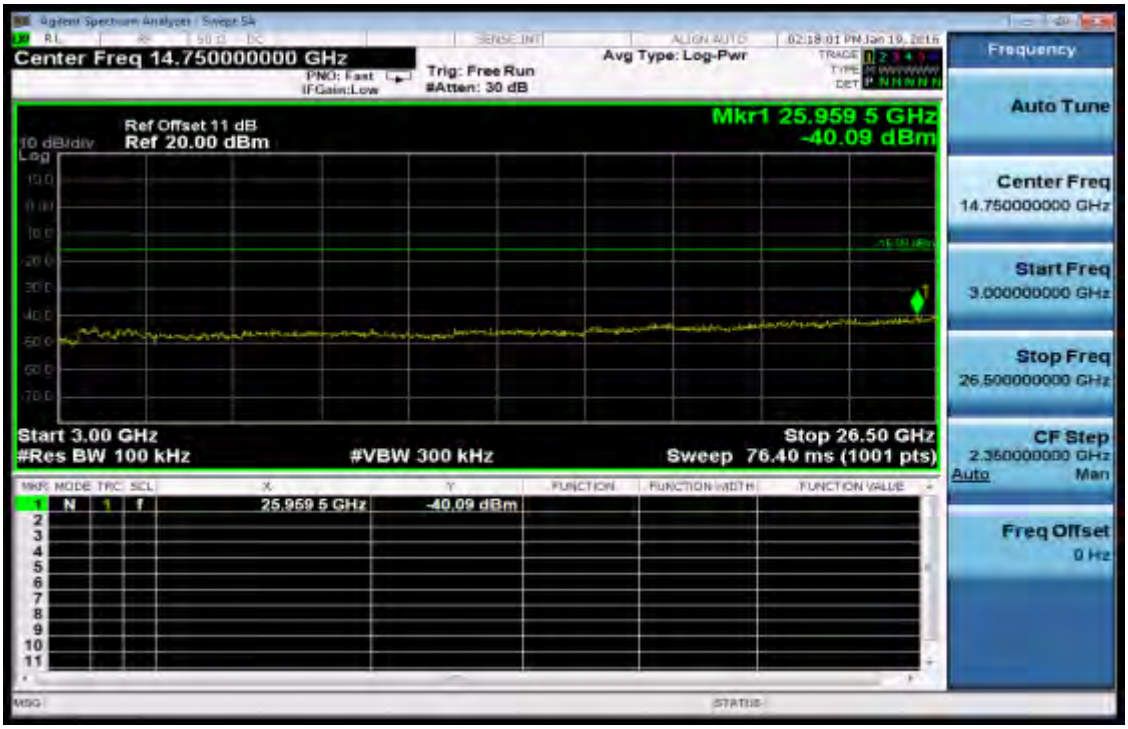
Spurious Emission Test Data CH-High





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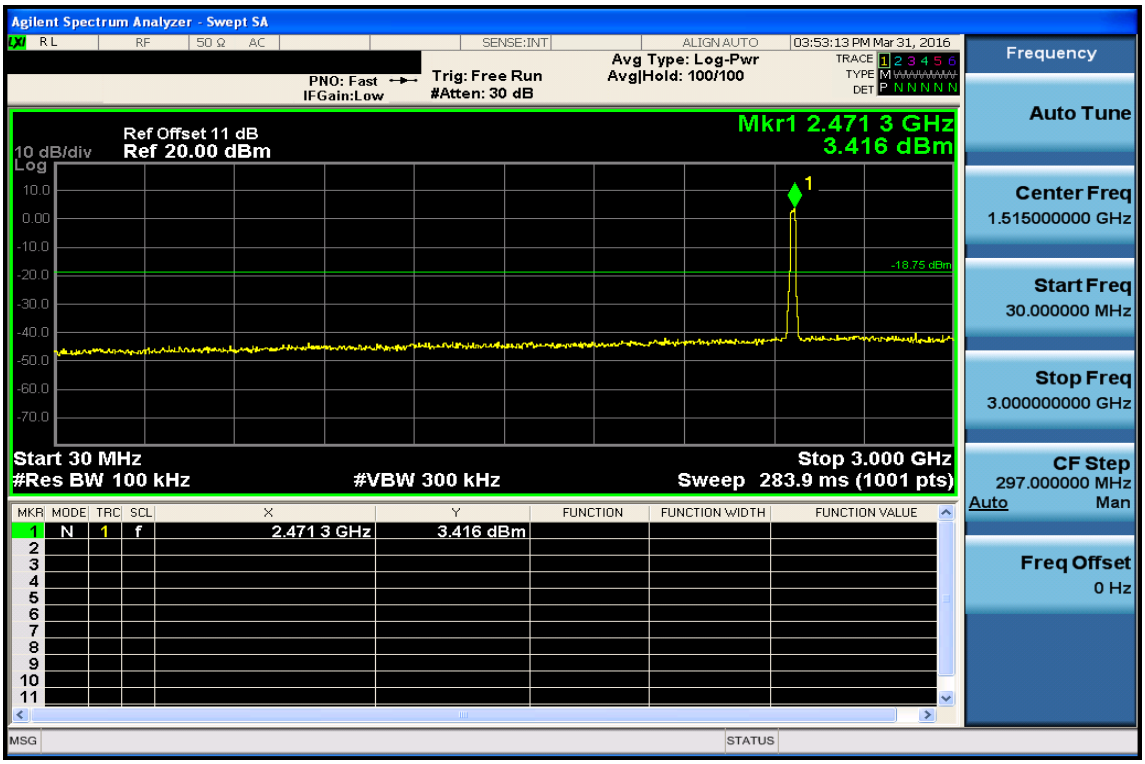
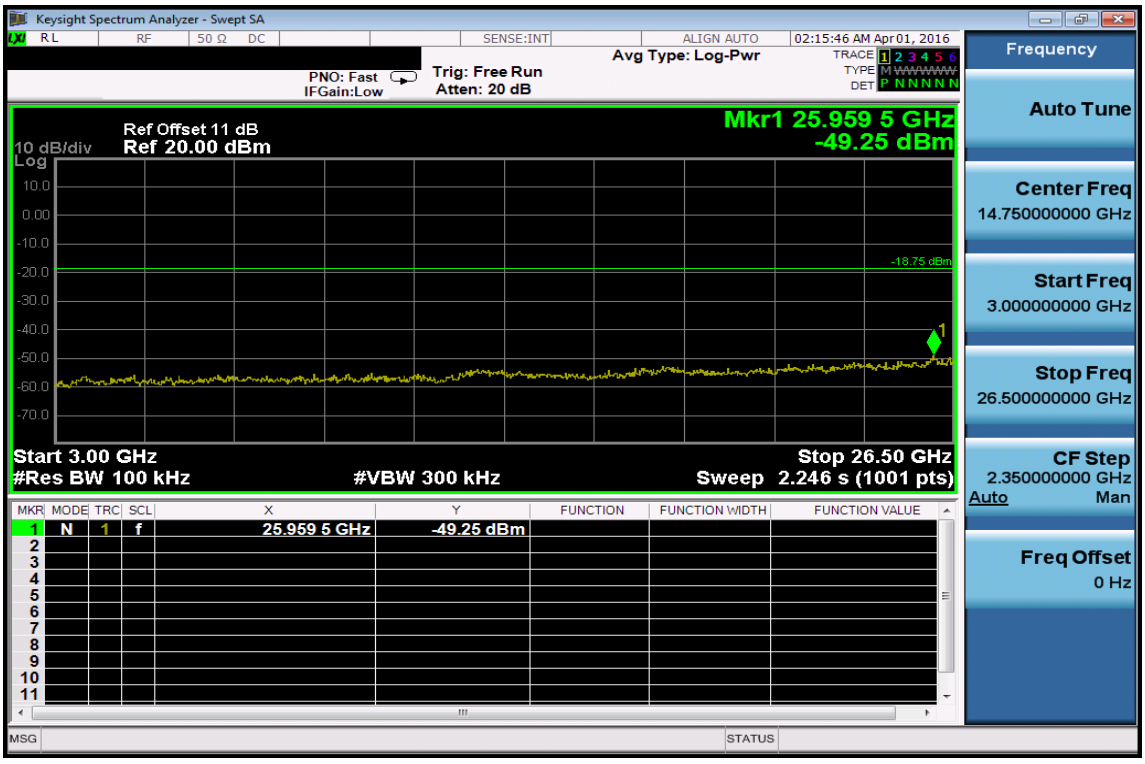
Spurious Emission Test Data CH-12





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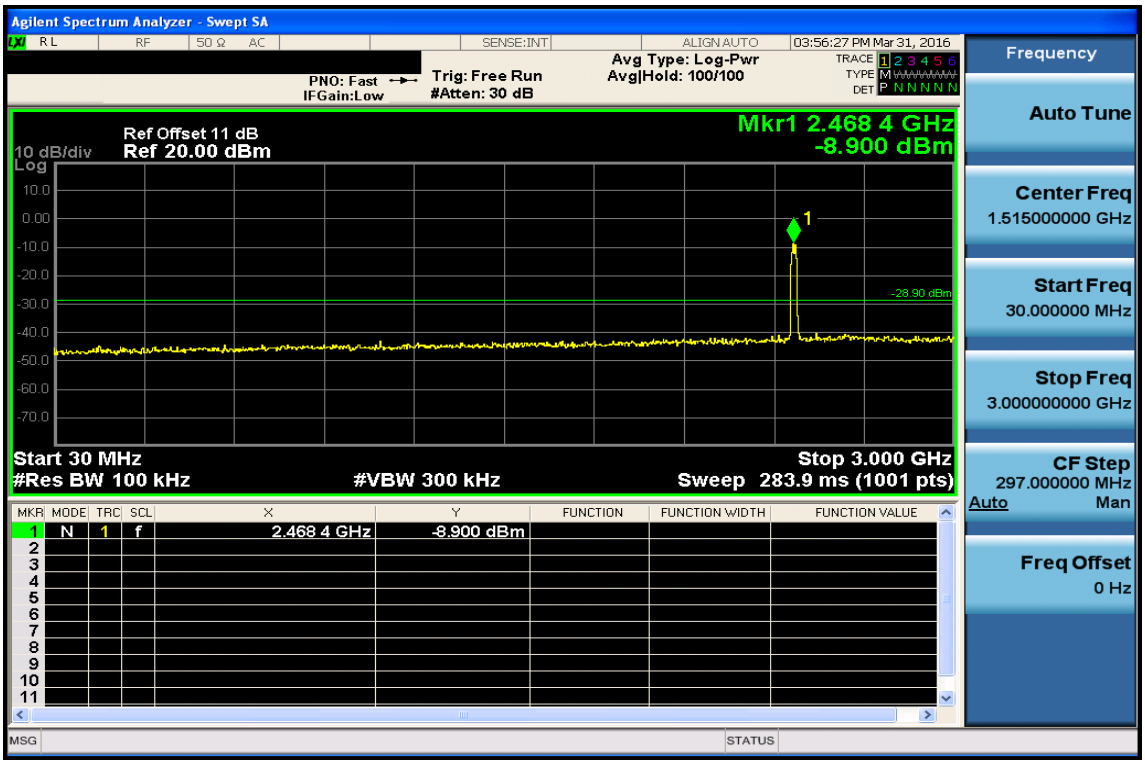
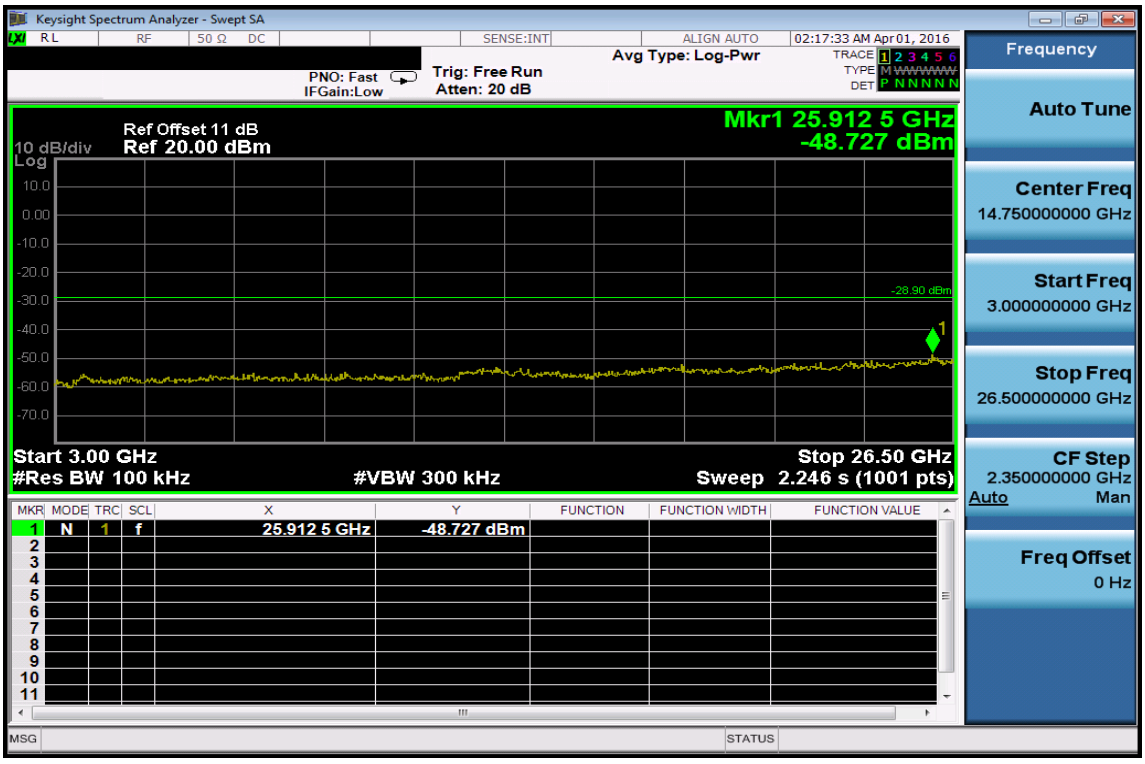
Spurious Emission Test Data CH-13





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802.11n_HT20

Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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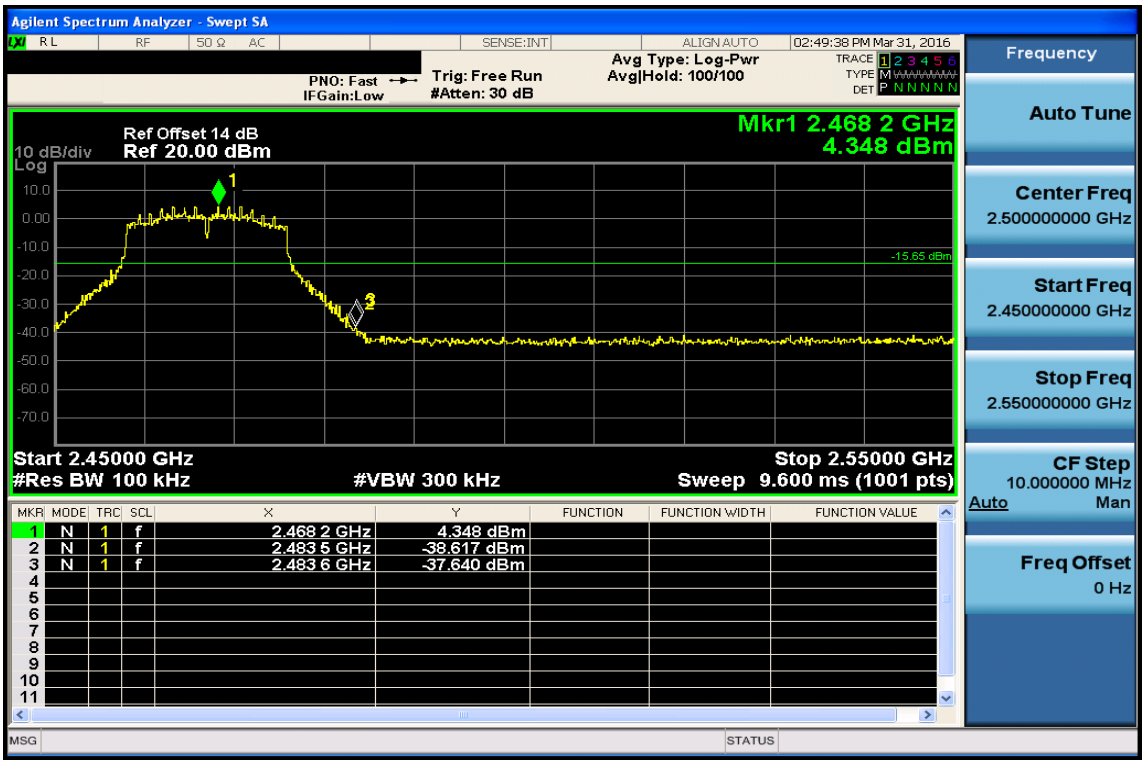
Band Edges Test Data CH-12



Band Edges Test Data CH-13

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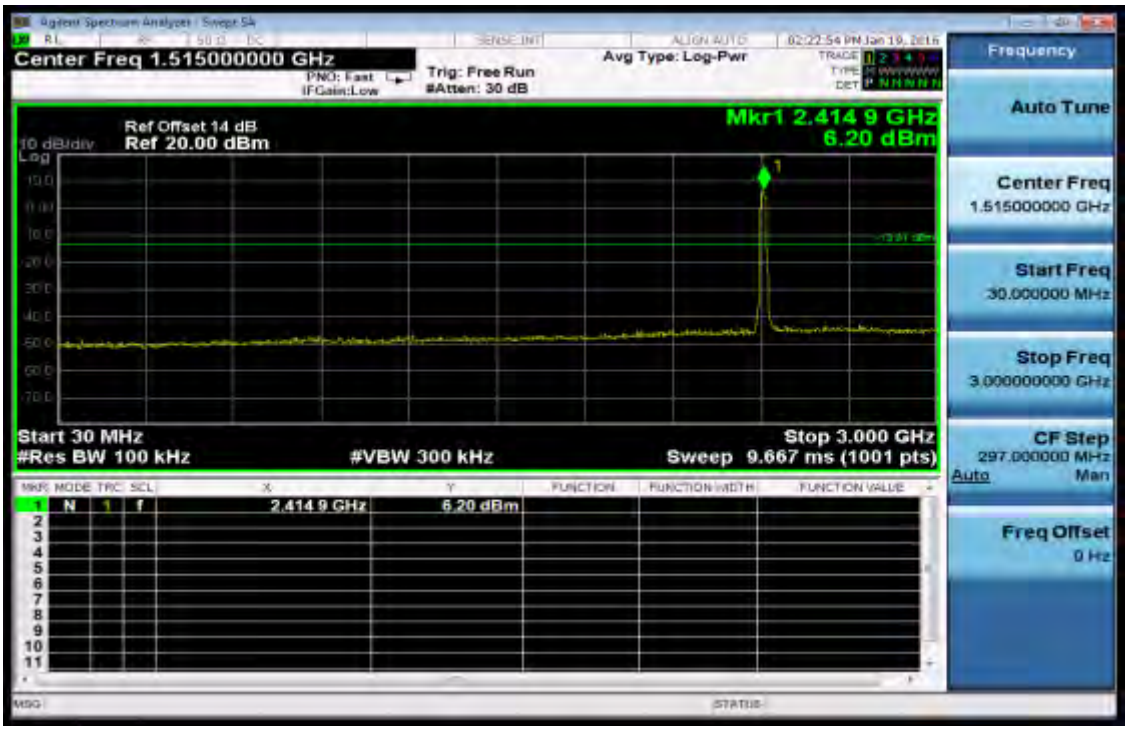
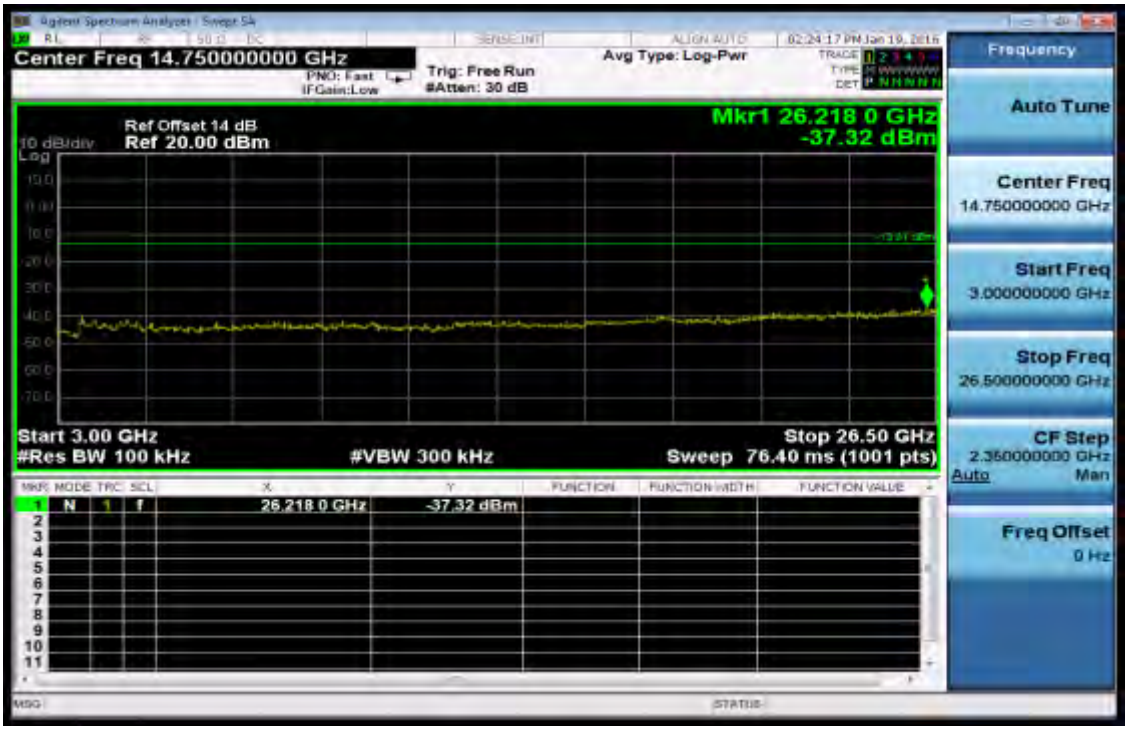
802.11n_HT20

Spurious Emission Test Data CH-Low





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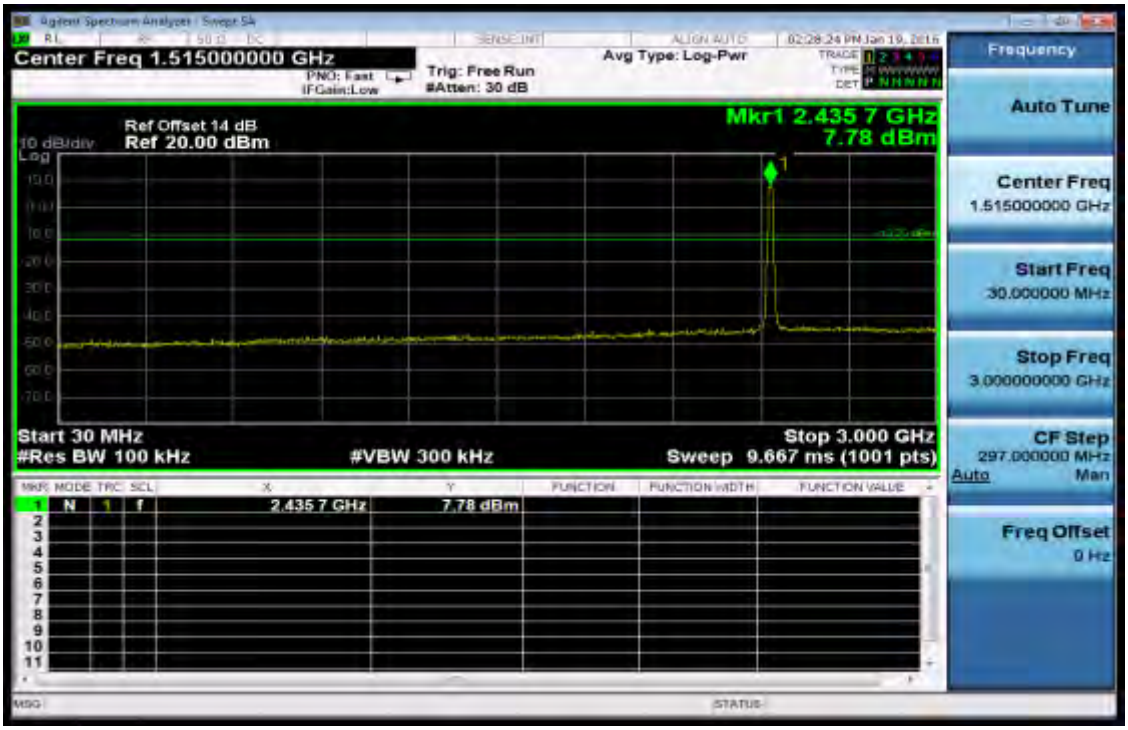
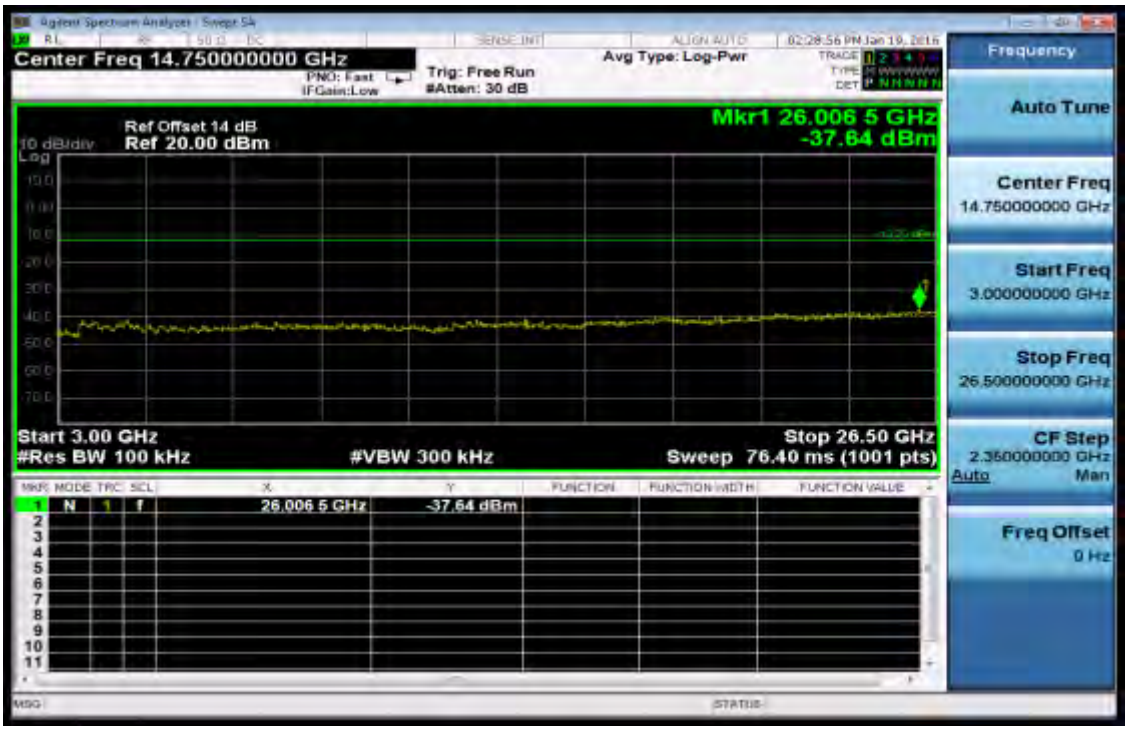
Spurious Emission Test Data CH-Mid





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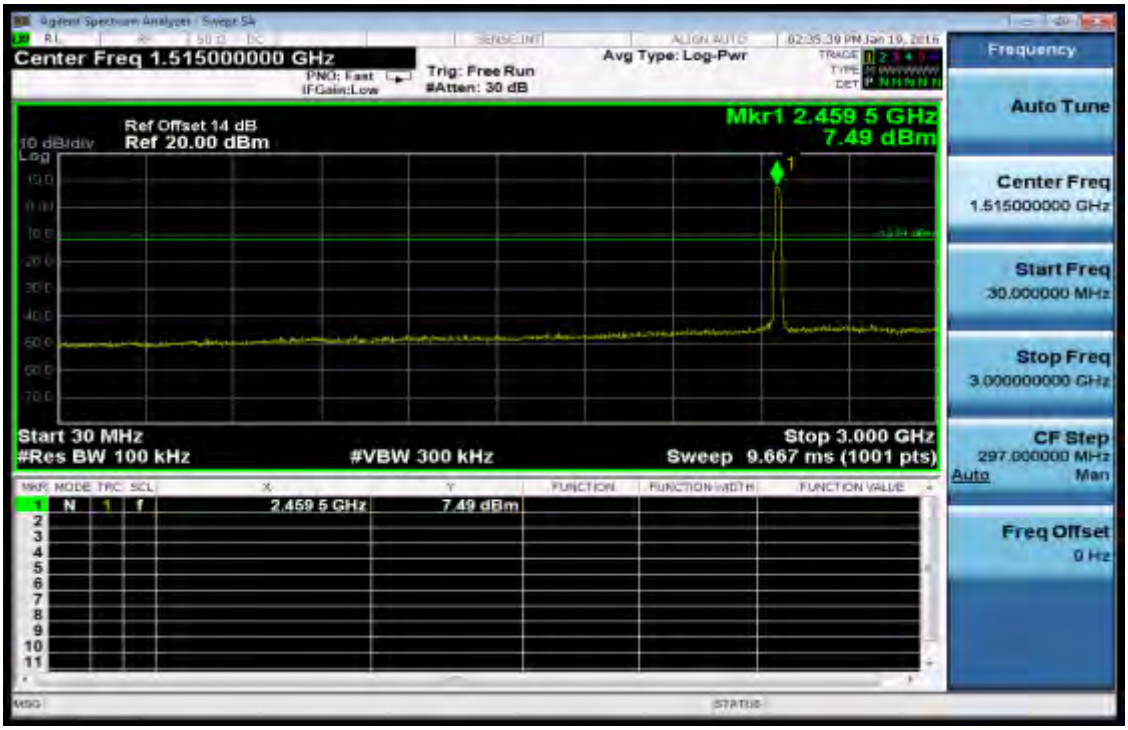
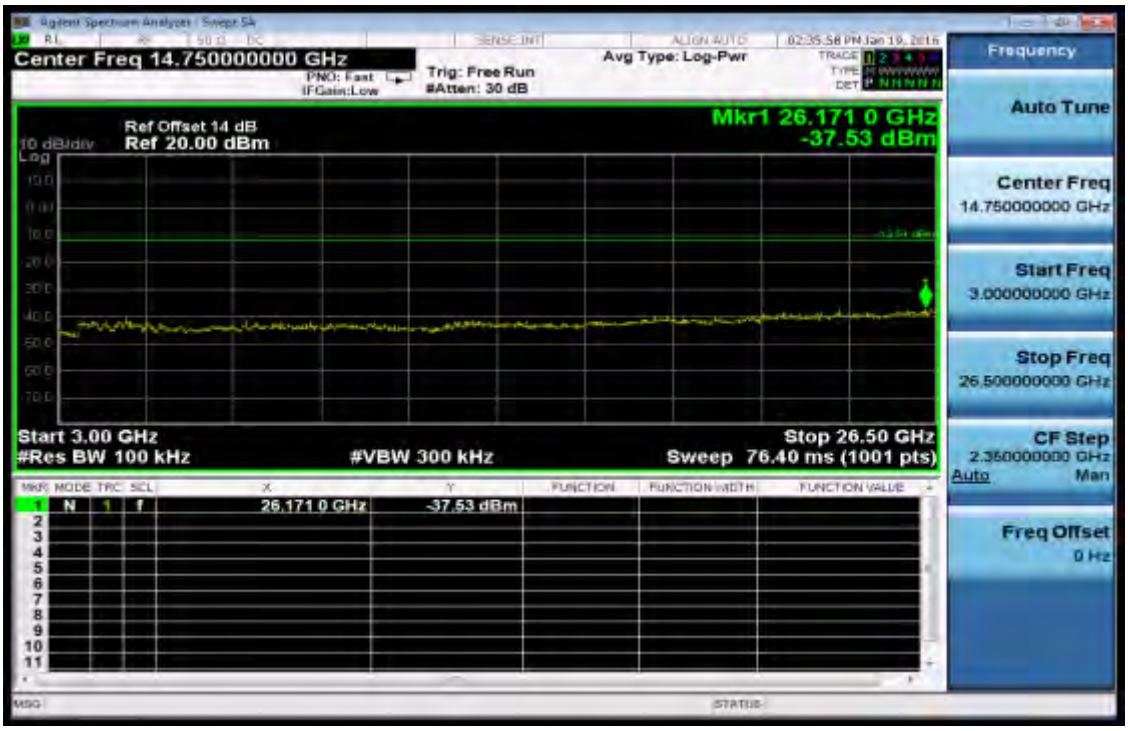
Spurious Emission Test Data CH-High





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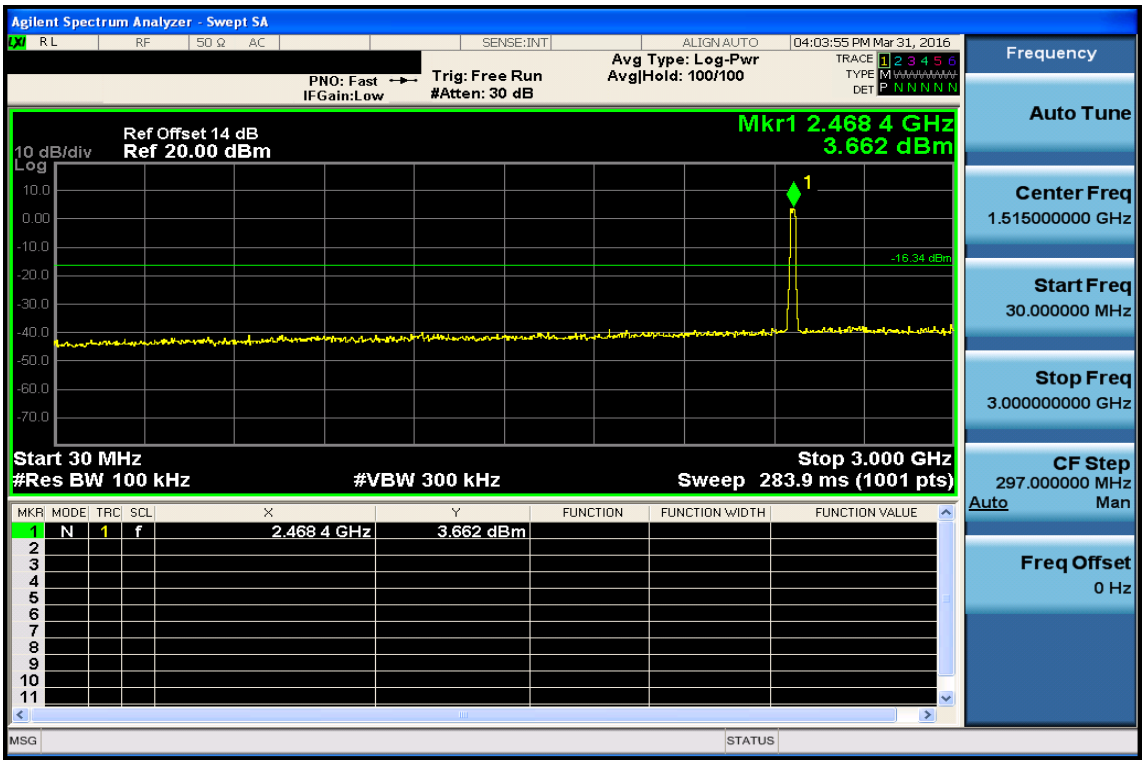
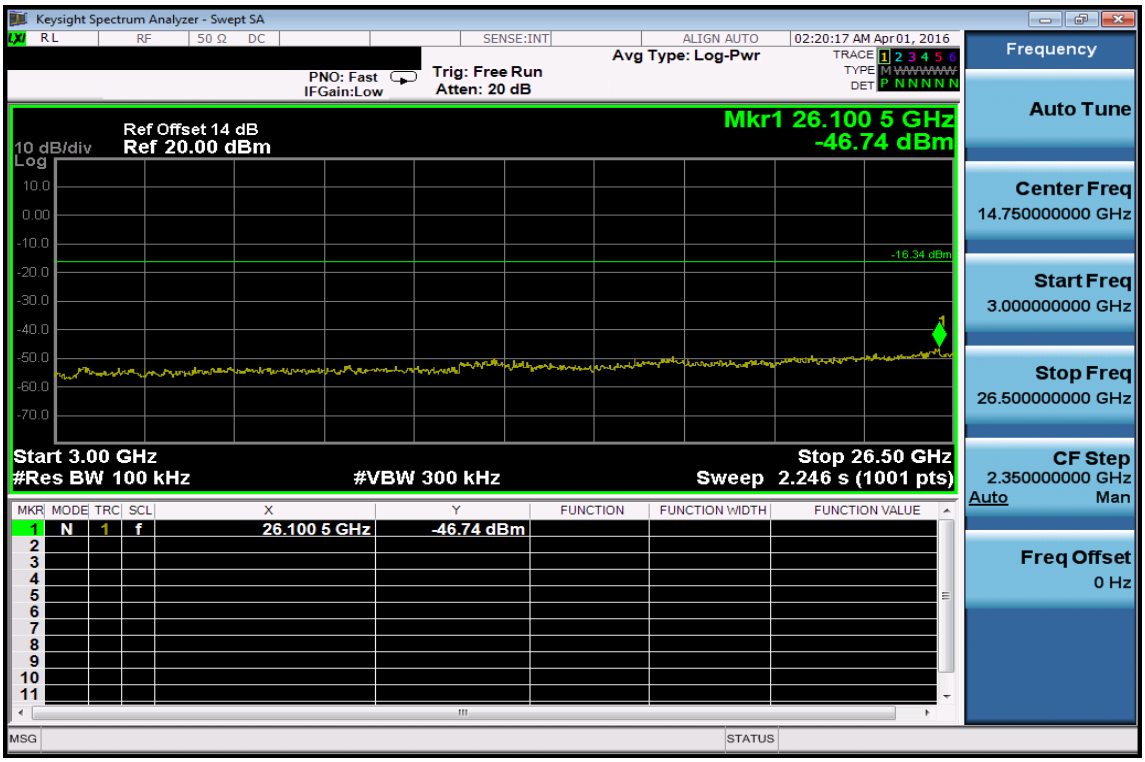
Spurious Emission Test Data CH-12





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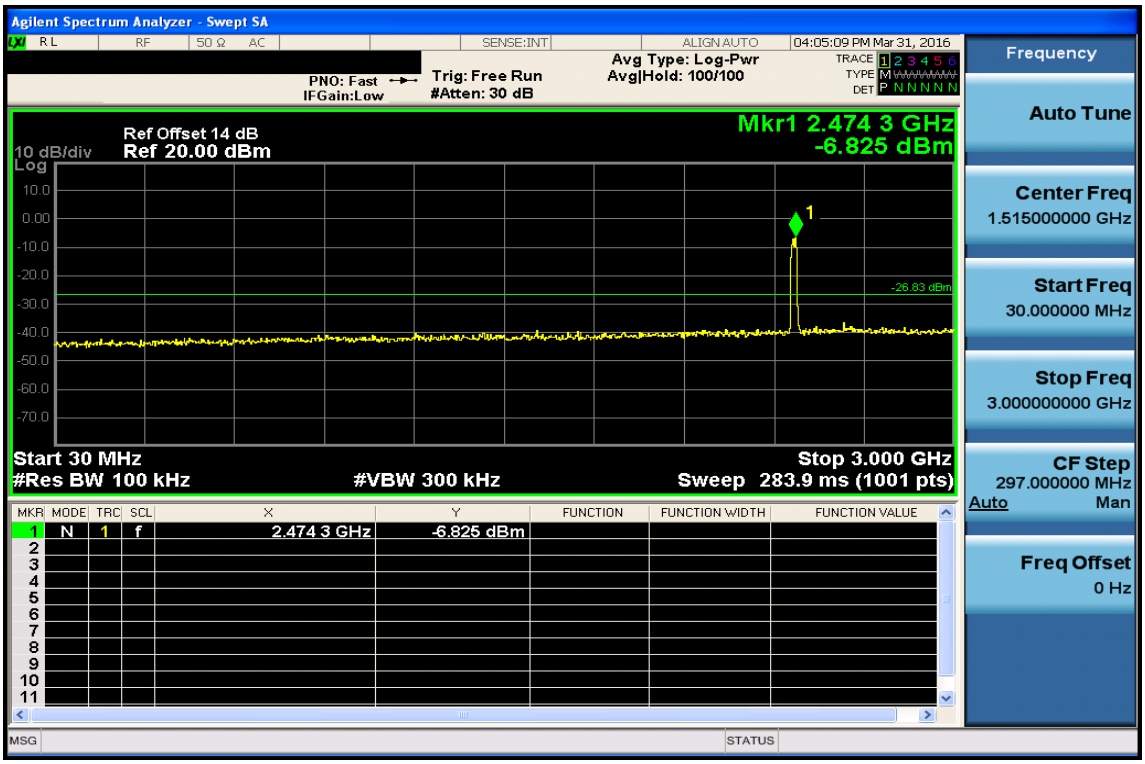
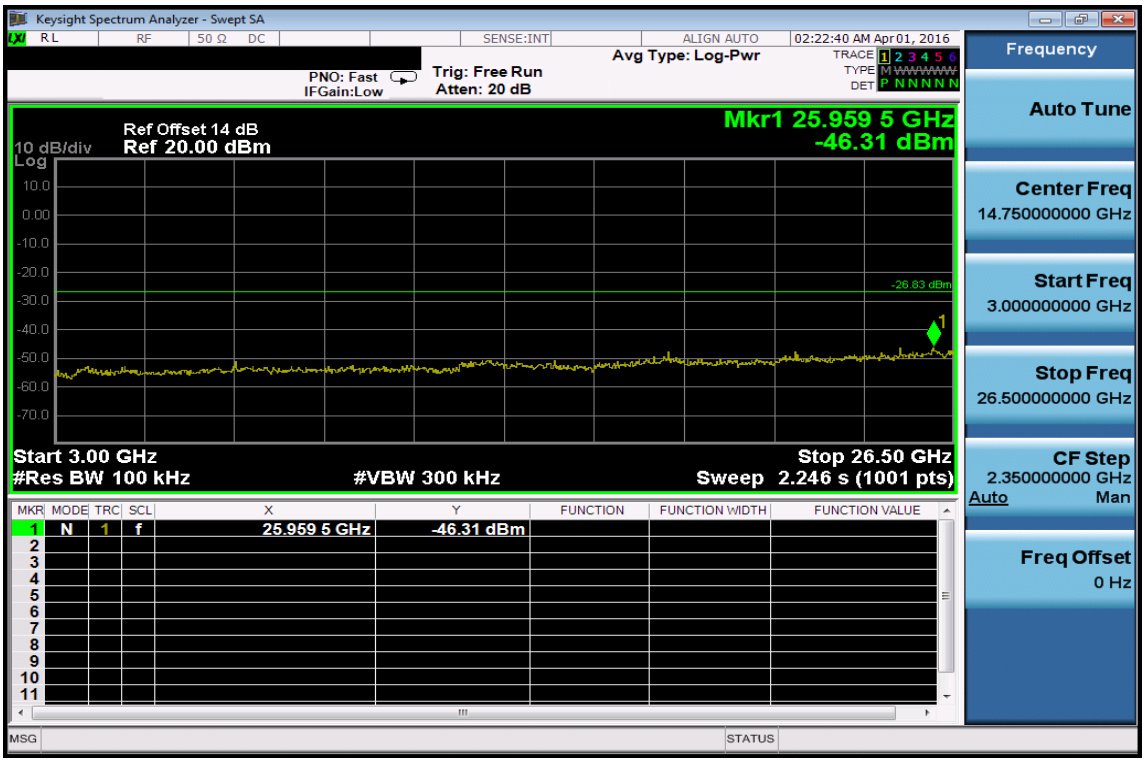
Spurious Emission Test Data CH-13





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802.11n_HT40

Band Edges Test Data CH-Low

Band Edges Test Data CH-High

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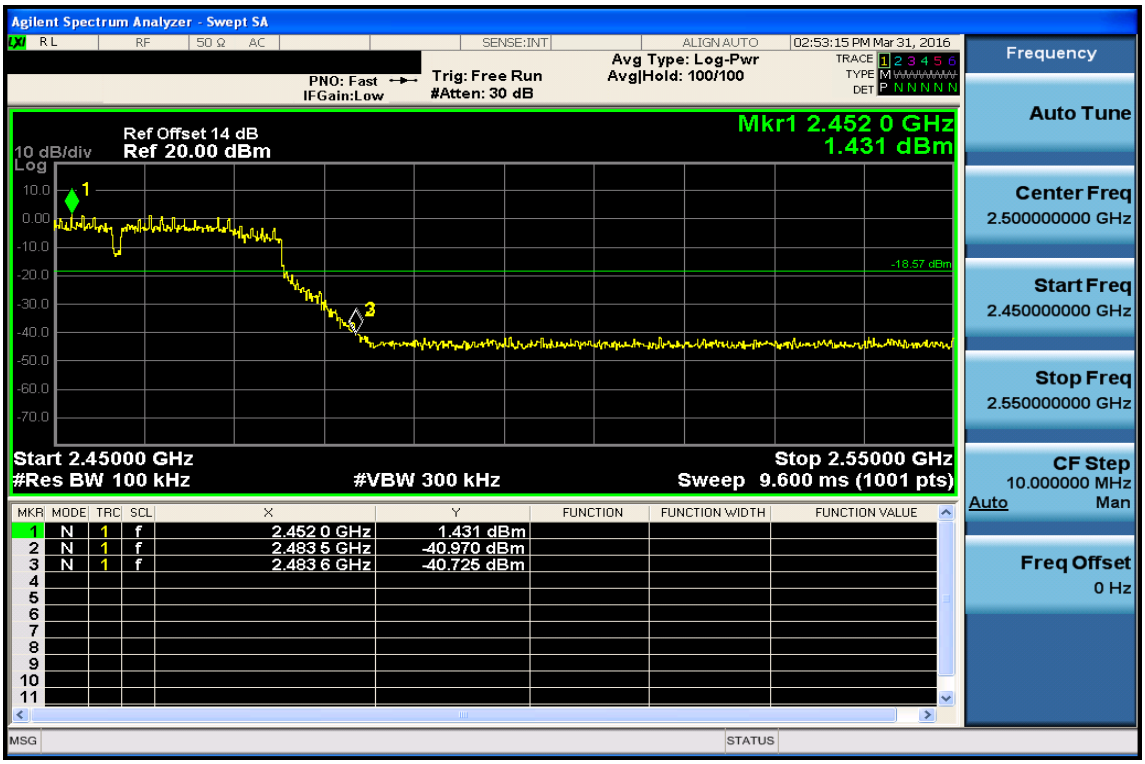
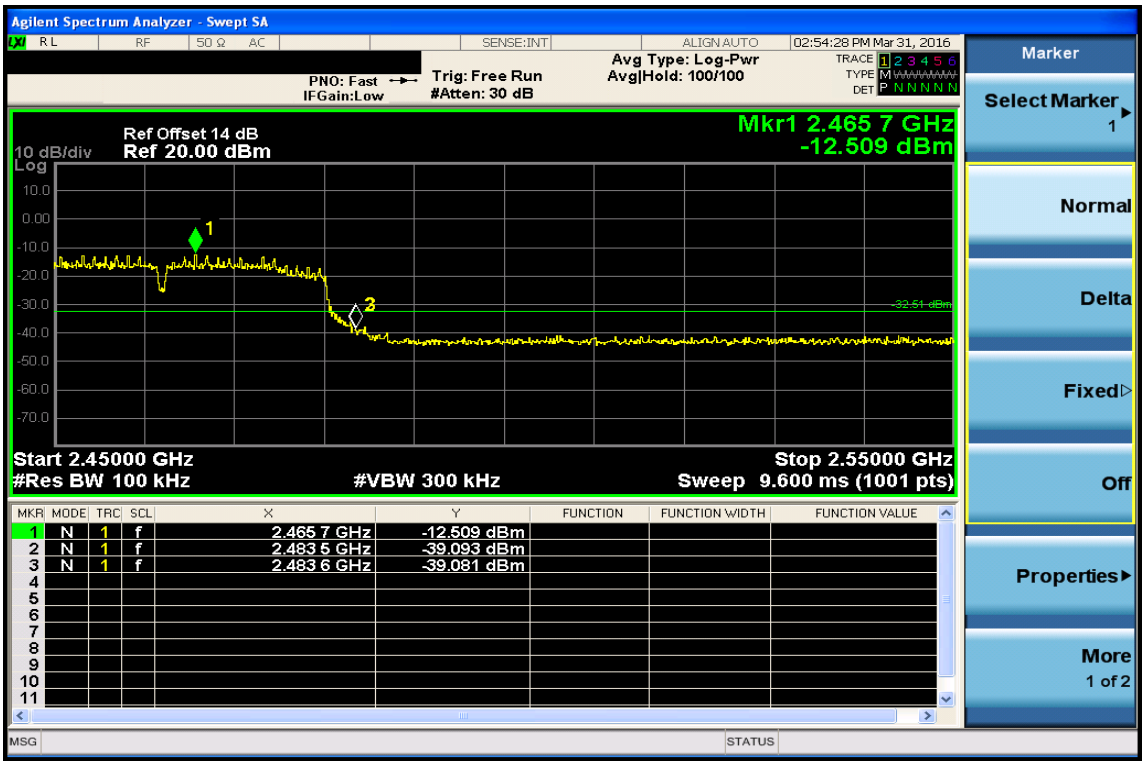
Band Edges Test Data CH-10



Band Edges Test Data CH-11



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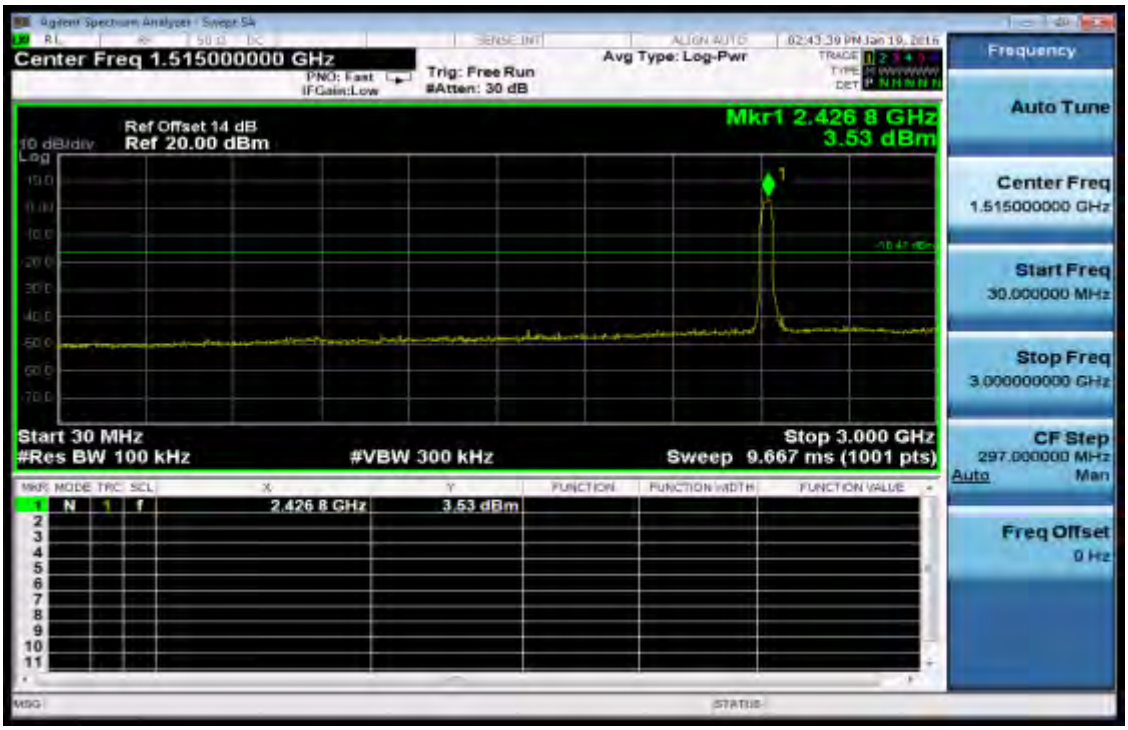
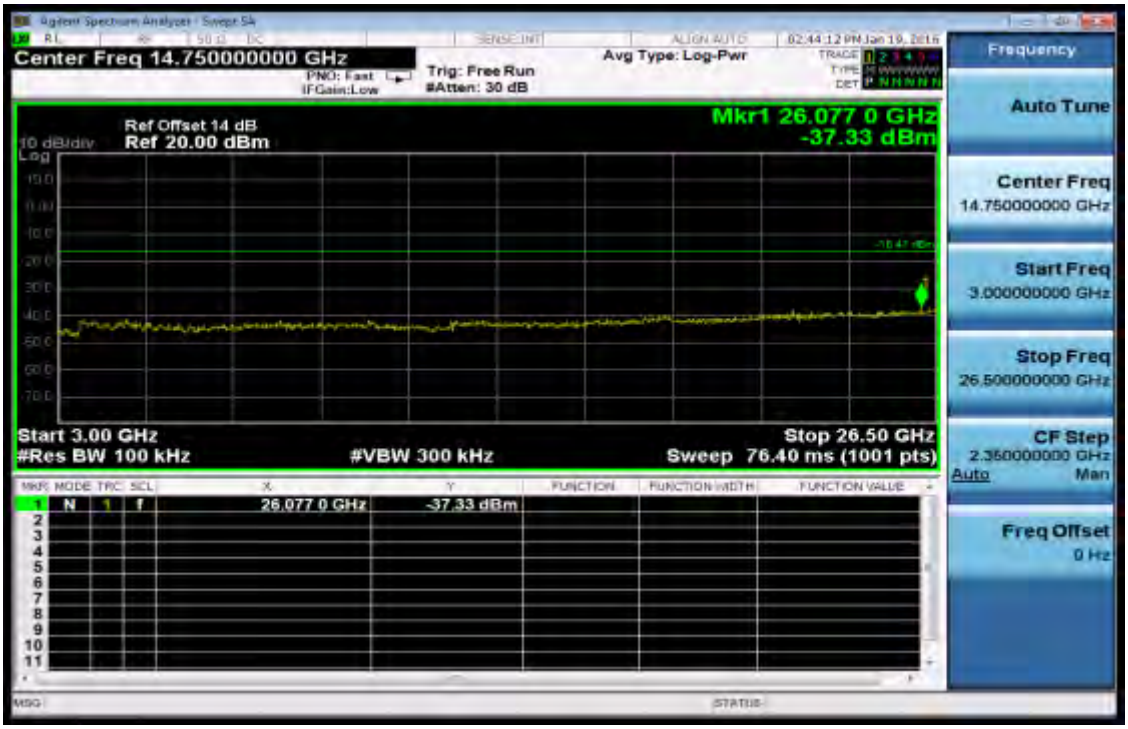
802.11n_HT40

Spurious Emission Test Data CH-Low





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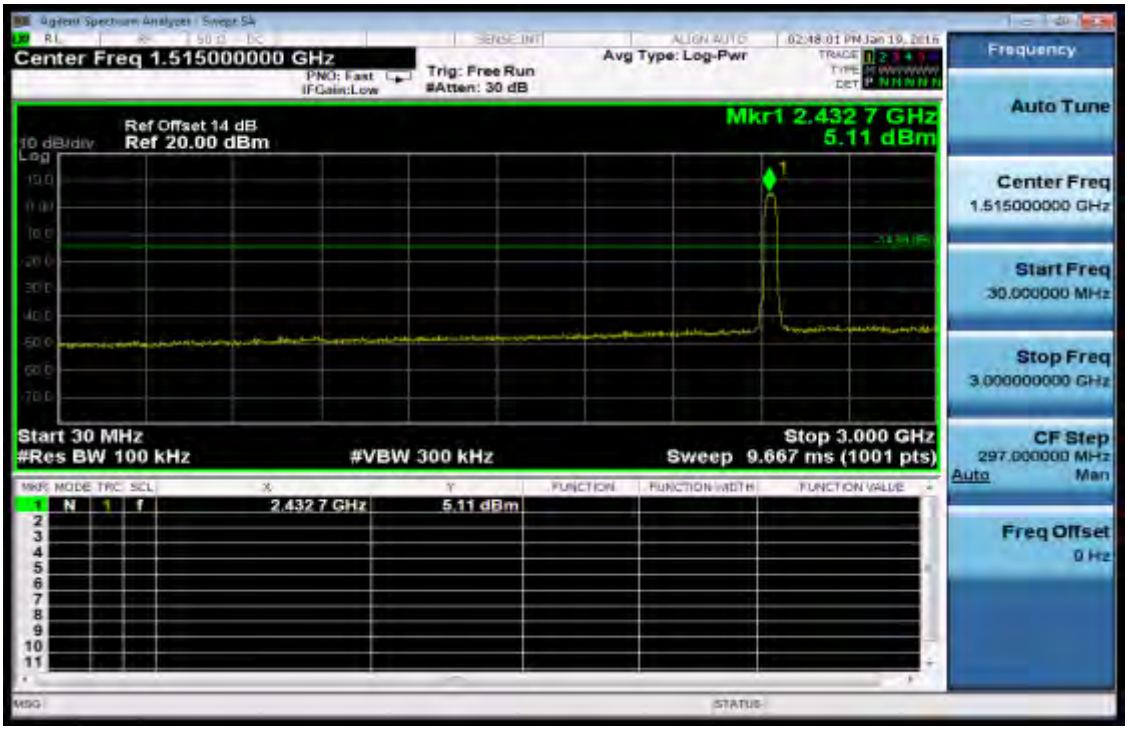
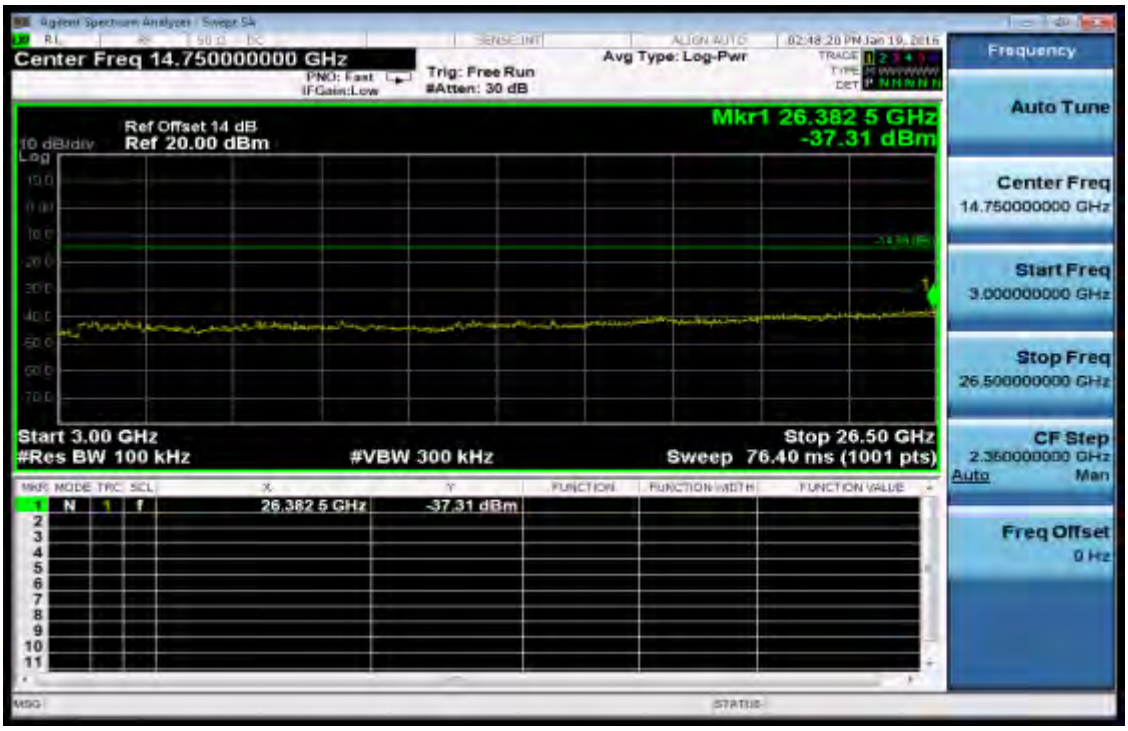
Spurious Emission Test Data CH-Mid





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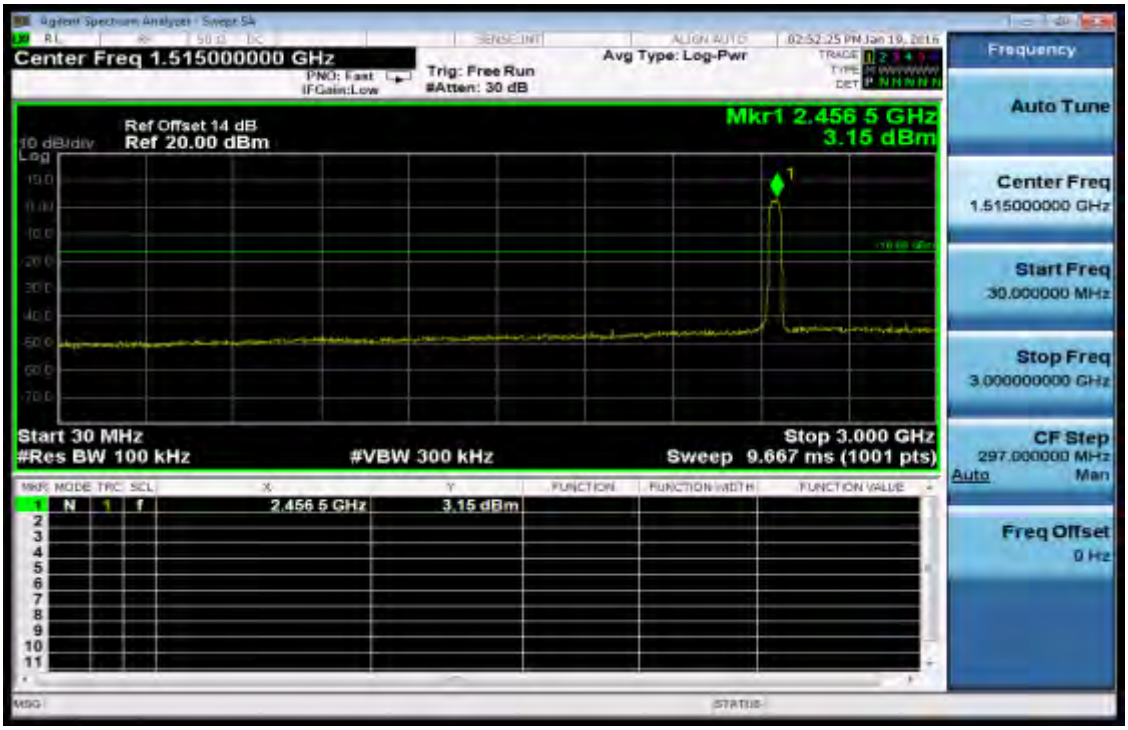
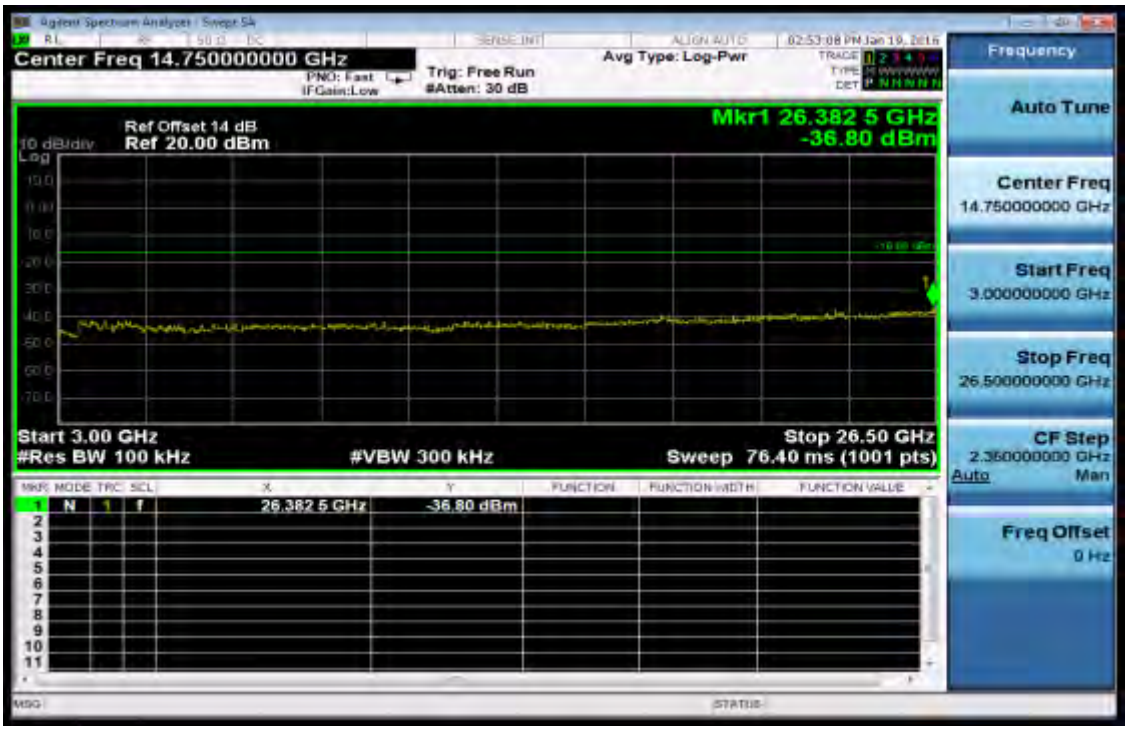
Spurious Emission Test Data CH-High





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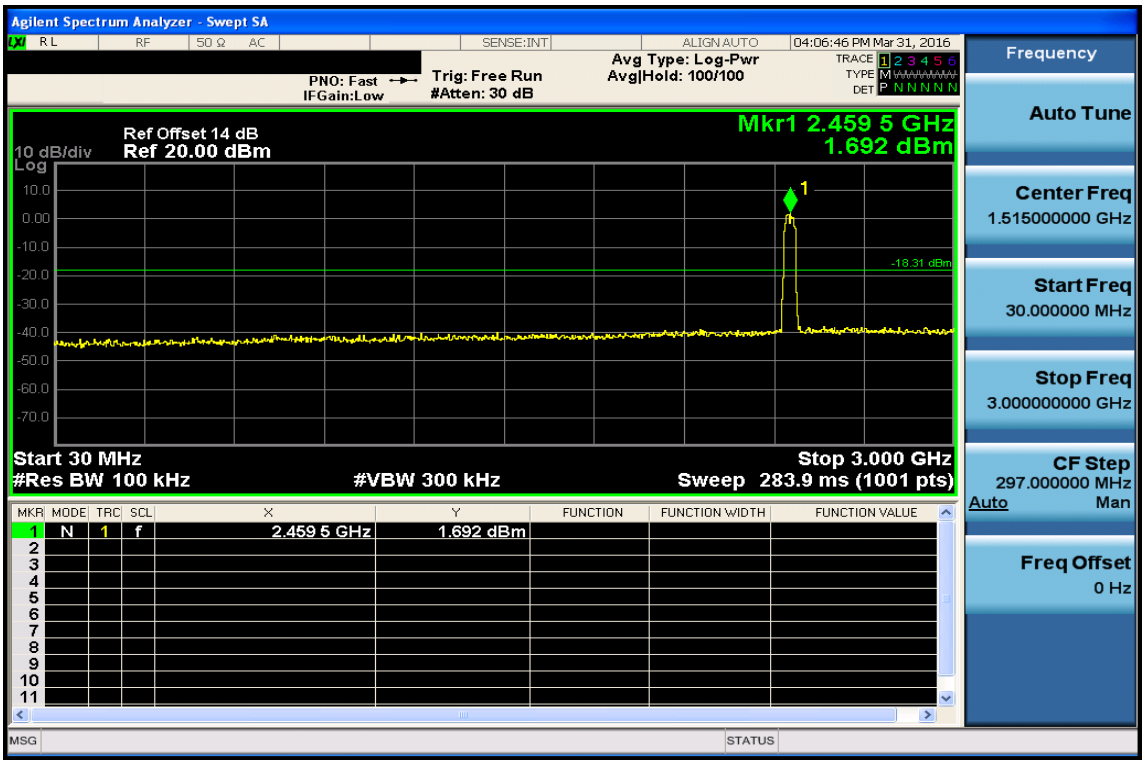
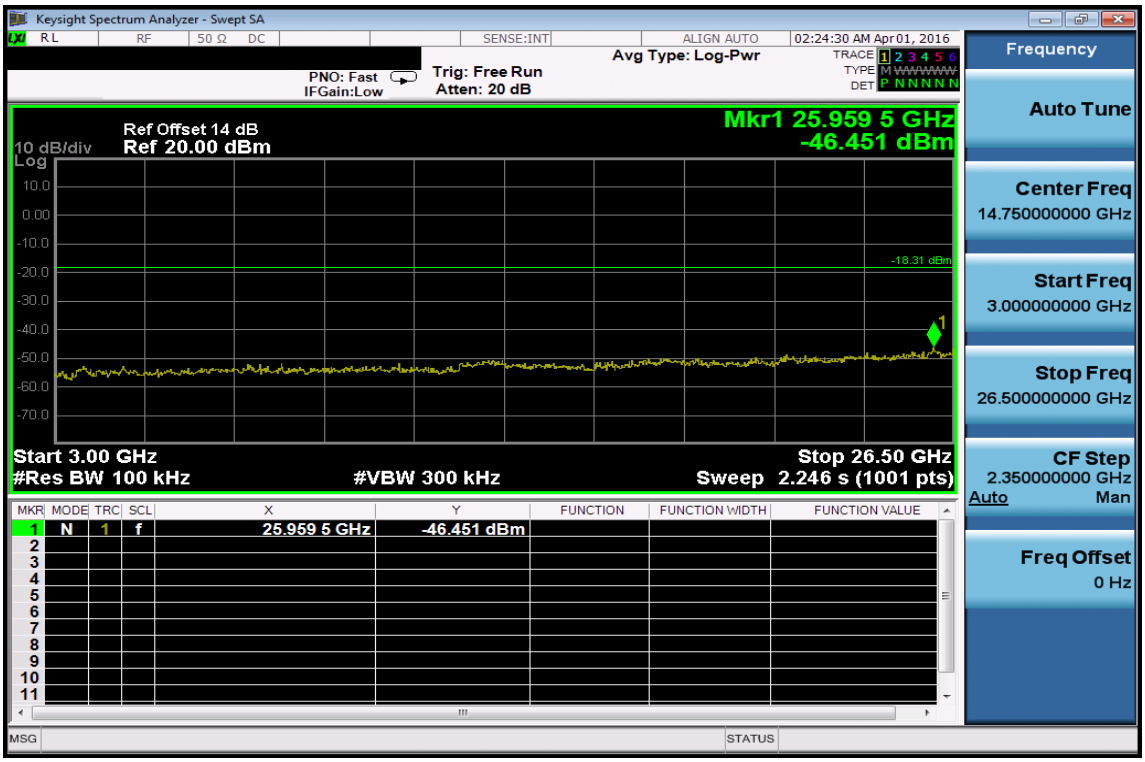
Spurious Emission Test Data CH-10





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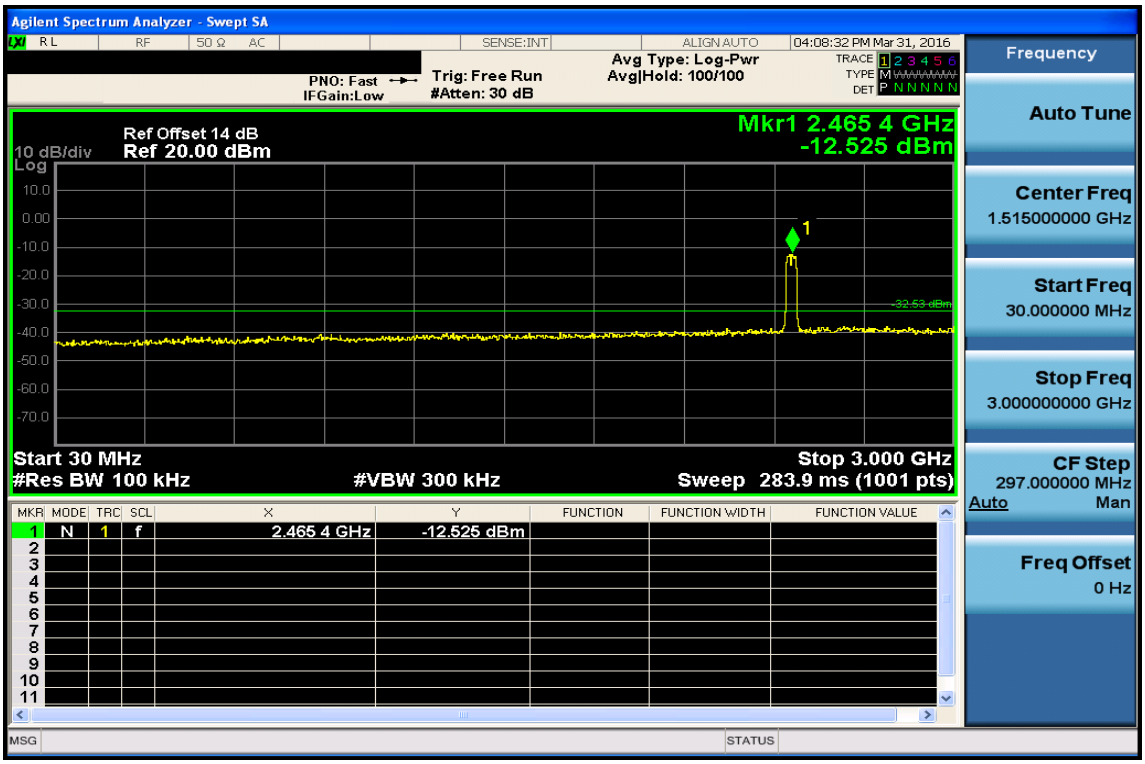
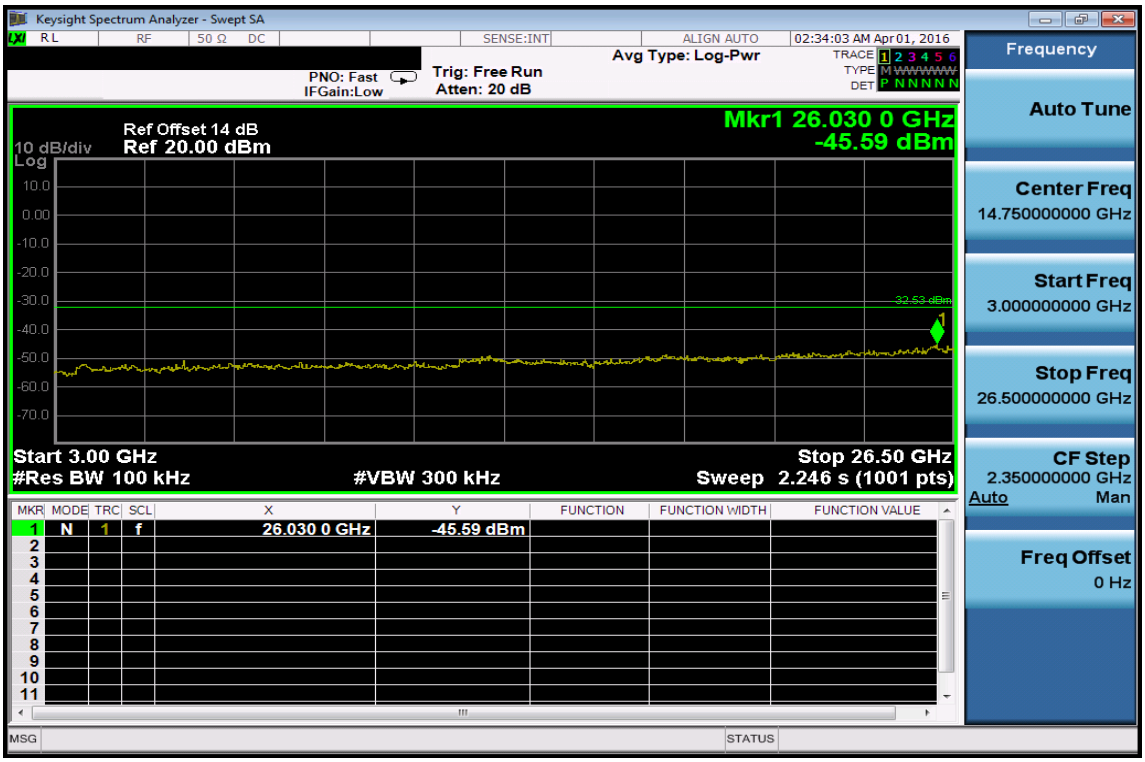
Spurious Emission Test Data CH-11





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