ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name:	**Vehicle Mount Computer**
Brand Name:	**Honeywell**
Marketing Name:	**Thor VM3**
Model No.:	**VM3WLAN**
Model Difference:	**N/A**
FCC ID:	**HD5-VM3WLANA**
Report No.:	**ER/2015/20010**
Issue Date:	**Mar. 10, 2015**
FCC Rule Part:	**§15.407**
Prepared for:	**Honeywell International Inc.,** **Honeywell Scanning and Mobility** **9680 Old Bailes Road, Fort Mill, SC 29707, USA**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

VERIFICATION OF COMPLIANCE

Applicant:	Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA
Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Marketing Name:	Thor VM3
Model No.:	VM3WLAN
Model Difference:	N/A
FCC ID:	HD5-VM3WLANA
File Number:	ER/2015/20010
Date of test:	Feb. 03, 2014 ~ Mar. 06, 2014
Date of EUT Received:	Feb. 03, 2014

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:	Marcus Tseng	***Date:***	Mar. 10, 2015
	Marcus Tseng / Engineer		
Prepared By:	Tiffany Kao	***Date:***	Mar. 10, 2015
	Tiffany Kao / Clerk		
Approved By:	Jim Chang	***Date:***	Mar. 10, 2015
	Jim Chang / Asst. Manager		

Revision History

Report Number	Revision	Description	Issue Date
ER/2015/20010	Rev.00	Initial creation of document	Mar. 10, 2015

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Vehicle Mount Computer	
Brand Name:	Honeywell	
Marketing Name:	Thor VM3	
Mpdel No.:	VM3WLAN	
Model Difference:	N/A	
Product SW/HW version:	(a)Win7: 99.01.00.0002 (b)Win8: 99.01.00.0004 / ALXH48	
Radio SW/HW version:	10.0.0.27450 / V.1	
Test SW Version:	10.0.0 27450	
Power Supply:	7.3Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: L3-52301624-R / OVT270L1R00 / 50121692-001, Supplier: TOTEX
	Adapter :	Model No.: GT-81081-6015-T3, Supplier: GlobTek, Inc.

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	15.14dBm	OFDM
	5250~5350	4	14.60dBm	
	5470~5725	8	15.32Bm	
	5725-5850	5	14.04dBm	
11n	HT20 5150~5250	4	(MIMO Chain 0): 10.57dBm (MIMO Chain 1): 10.44dBm (MIMO Chain 0+1): 13.52dBm	OFDM
	HT20 5250~5350	4	(MIMO Chain 0): 13.57dBm (MIMO Chain 1): 13.54dBm (MIMO Chain 0+1): 16.57dBm	
	HT20 5470~5725	11	(MIMO Chain 0): 15.15dBm (MIMO Chain 1): 16.07dBm (MIMO Chain 0+1): 18.64dBm	
	HT20 5725-5850	5	(MIMO Chain 0): 14.27dBm (MIMO Chain 1): 13.74dBm (MIMO Chain 0+1): 17.02dBm	

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11n	HT40 5150-5250	2	(MIMO Chain 0): 11.03dBm (MIMO Chain 1): 11.30dBm (MIMO Chain 0+1): 14.17dBm	OFDM
	HT40 5250-5350	2	(MIMO Chain 0): 11.17dBm (MIMO Chain 1): 11.48dBm (MIMO Chain 0+1): 14.34dBm	
	HT40 5470-5725	5	(MIMO Chain 0):15.24dBm (MIMO Chain 1): 14.41dBm (MIMO Chain 0+1): 17.86dBm	
	HT40 5725-5850	2	(MIMO Chain 0): 14.27dBm (MIMO Chain 1): 13.15dBm (MIMO Chain 0+1): 16.76dBm	
Antenna Designation			Internal, PIFA Antenna: Part No.: FIT-VM3-ANT-21Y, FIT-VM3-ANT-028 5GHz Gain: 5.5dBi External, Dipole Antenna: 1. Model No.: WTS 2450 5GHz Gain: 2.6dBi 2. Model No.: R380500314 5GHz Gain: 5.0dBi	
Modulation type			64QAM, 16QAM, QPSK, BPSK for OFDM	
Transition Rate:			802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps	

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Vehicle Mount Computer supporting, Wi-Fi 802.11abgn and Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Model No.:	VM3WLAN
Model Difference:	N/A
FCC ID	HD5-VM3WLANA
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.0 dual mode

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

1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 662311 D01 Multiple Transmitter Output

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 the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10:2013.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4.

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.

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 §15.107. 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 which is 0.8 m above ground plane. 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 1.9 dB and 10 dB attenuator.

Single mode offset
= RF cable loss (dB)+ attenuation factor(dB)=11.9(dB)

N20 MIMO mode offset
= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB+duty facty=14.9(dB)

N40 MIMO mode offset
= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(NANT) dB+duty facty=15.1(dB)

2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

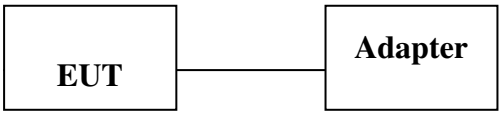


Fig. 2-2 Conducted (Antenna Port) Configuration

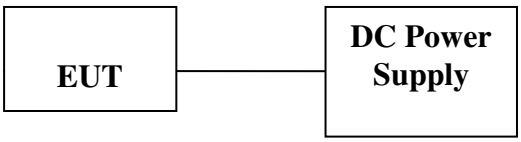


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	Qualcomm Atheros	10.0.0 27450	N/A	N/A	N/A
2.	DC Power Supply	HP	E3640A	MY40005907	Shield	Un-shield

Fig. 2-3 AC Power Line Conducted Emission

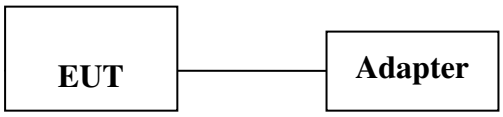


Table 2-2 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	Qualcomm Atheros	10.0.0 27450	N/A	N/A	N/A

3. SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5590 MHz	134	5670 MHz
118	5590 MHz		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 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 mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST (Internal Antenna and External Antenna):

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	MAIN
802.11a	5260~5320	52 to 64	60	OFDM	6	MAIN
802.11a	5500~5700	100 to 140	116	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11_HT20				OFDM	MCS8	MIMO
802.11a_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	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 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO

5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	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**)	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.

6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

Frequency range within 150 kHz to 30 MHz 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.		

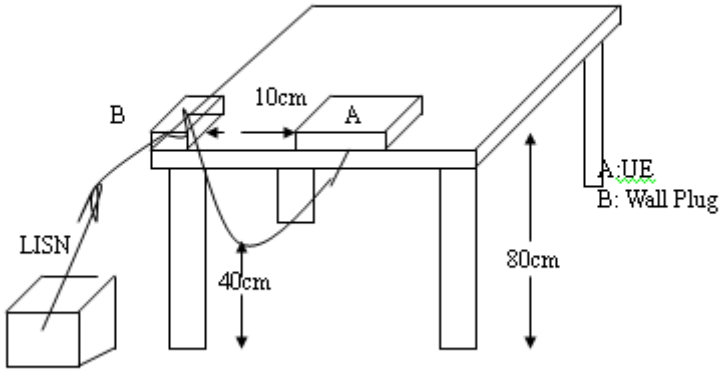
6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
EMI Test Receiver	R&S	ESCI7	100760	05/26/2014	05/25/2015
LISN	Rolf-Heine	NNB-2/16Z	99012	03/26/2014	03/25/2015
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/19/2014	03/18/2015
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2014	11/25/2015

6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

6.4. Test SET-UP



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 that closet to the limit

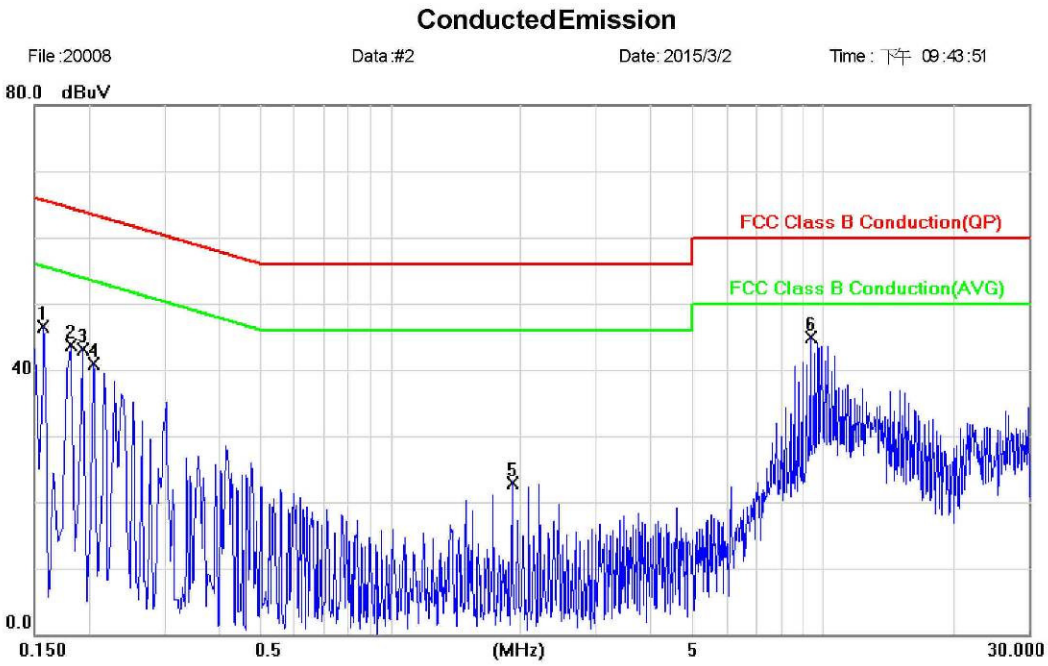
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Mar. 02, 2015
Temperature:	26 ℃	Humidity:	60 %	Test By:	Marcus

Site ConductionRoom
Limit: FCC Class B Conduction(QP)
Mode: Operation
Note: Adapter:GT-81081-6015-T3

Phase: L1
Power: AC 120V/60Hz

Temperature: 24 ℃
Humidity: 66%

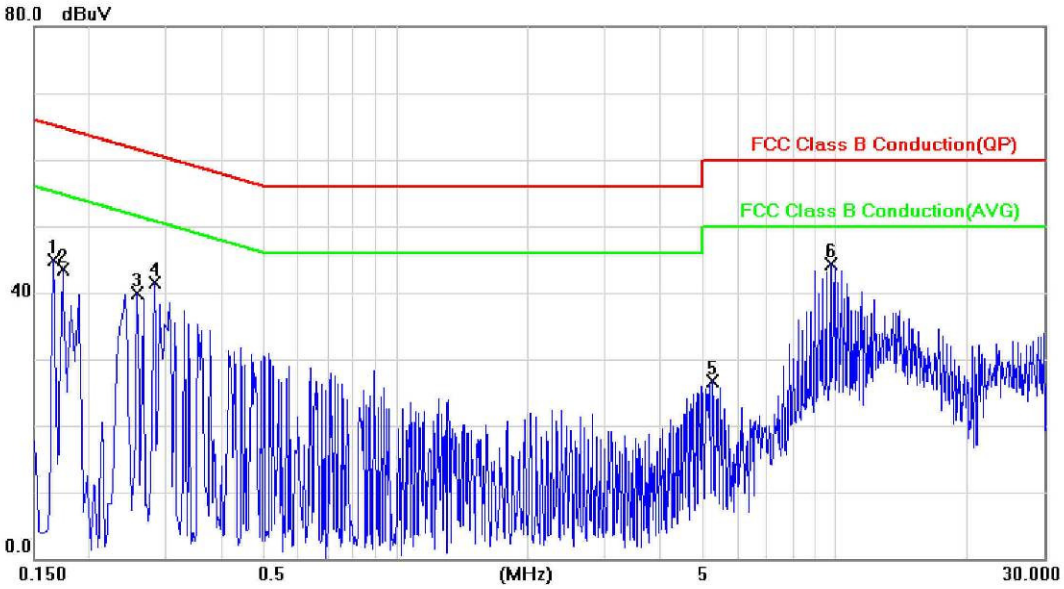


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	46.36	0.05	46.41	65.57	-19.16	peak	
2		0.1820	43.57	0.06	43.63	64.39	-20.76	peak	
3		0.1940	42.95	0.06	43.01	63.86	-20.85	peak	
4		0.2060	40.83	0.06	40.89	63.37	-22.48	peak	
5		1.9100	22.87	0.12	22.99	56.00	-33.01	peak	
6	*	9.3740	44.54	0.32	44.86	60.00	-15.14	peak	

Site ConductionRoom	Phase: N	Temperature: 24 ℃
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 66%
Mode: Operation		
Note: Adapter:GT-81081-6015-T3		

Conducted Emission

File :20008 Data :#1 Date: 2015/3/2 Time : 下午 09:40:39



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	44.90	0.05	44.95	65.16	-20.21	peak	
2		0.1740	43.49	0.05	43.54	64.77	-21.23	peak	
3		0.2580	39.87	0.06	39.93	61.50	-21.57	peak	
4		0.2820	41.47	0.06	41.53	60.76	-19.23	peak	
5		5.2500	26.57	0.20	26.77	60.00	-33.23	peak	
6	*	9.7740	44.06	0.34	44.40	60.00	-15.60	peak	

7. DUTY CYCLE 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 Fator (dB)
802.11a	98.42%	0.07
802.11n_20	96.81%	0.14
802.11n_40	93.33%	0.30

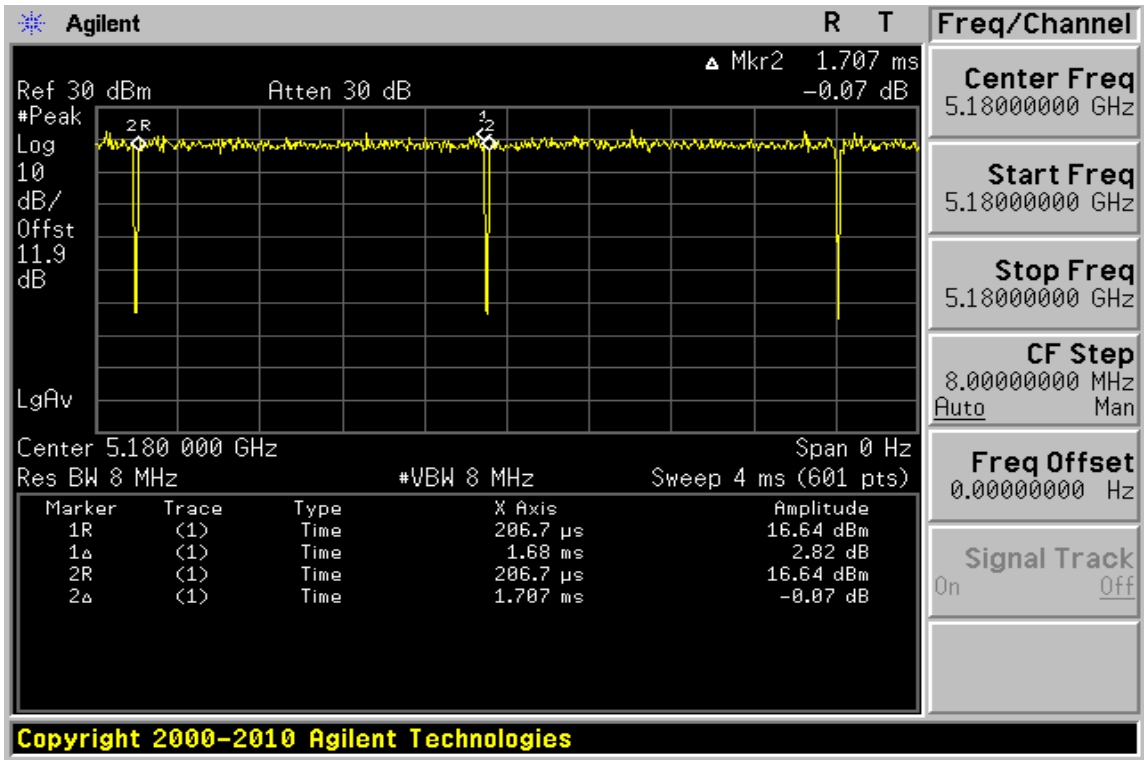
Duty Cycle Factor: 10 * log (1/0.9842) = 0.07

Duty Cycle Factor: 10 * log (1/0.9681) = 0.14

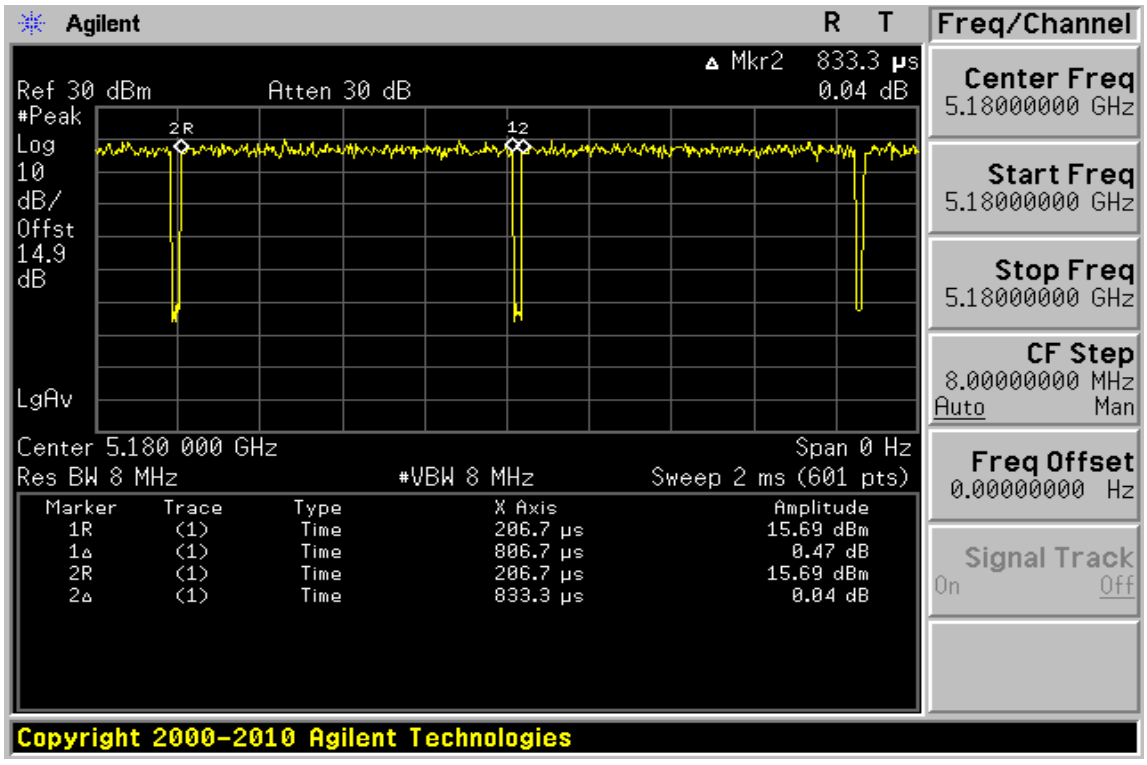
Duty Cycle Factor: 10 * log (1/0.9333) = 0.30

DUTY CYCLE TEST SIGNAL Measurement Result

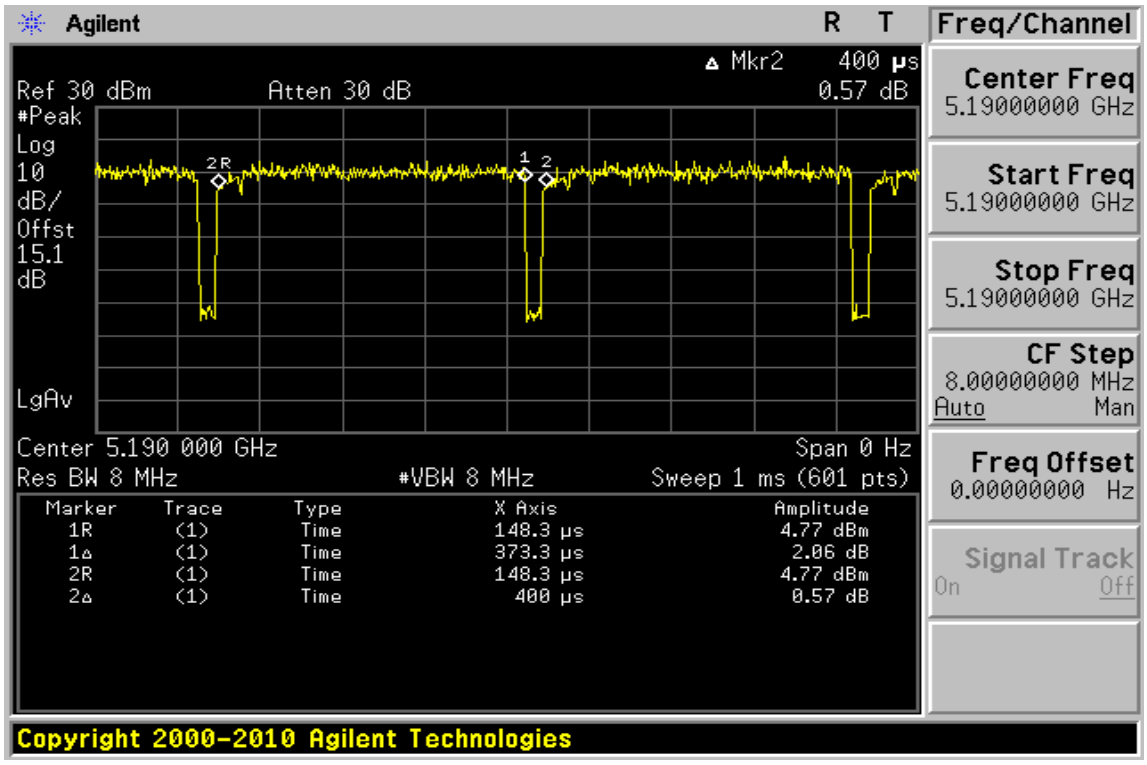
802.11a



802.11n HT20



802.11n HT40



8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

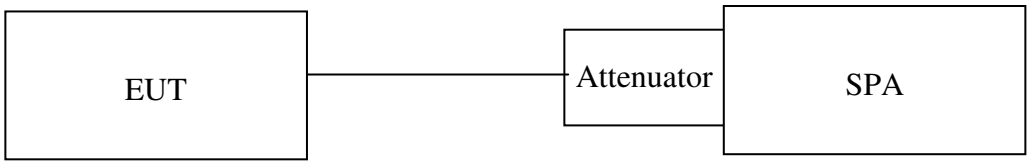
8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
   a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
   b. Mark the peak frequency and –26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
   a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
   b. Mark the peak frequency and –6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	**MFR**	**MODEL NUMBER**	**SERIAL NUMBER**	**LAST CAL.**	**CAL DUE.**
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	23.556	13.72
5220	23.563	13.72
5240	22.818	13.58
5260	23.151	13.65
5300	23.763	13.76
5320	22.860	13.59
5500	22.532	13.53
5580	22.527	13.53
5700	22.866	13.59

802.11n_HT20 (Main)

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	22.871	13.59
5220	22.146	13.45
5240	21.617	13.35
5260	22.450	13.51
5300	22.155	13.45
5320	23.403	13.69
5500	22.769	13.57
5580	22.901	13.60
5700	23.431	13.70

802.11n_HT20 (Aux)

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	22.324	13.49
5220	22.866	13.59
5240	21.884	13.40
5260	22.286	13.48
5300	22.145	13.45
5320	21.994	13.42
5500	23.096	13.64
5580	22.867	13.59
5700	22.782	13.58

802.11n _HT40 (Main)

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	48.107	16.82
5230	48.087	16.82
5270	47.583	16.77
5310	48.050	16.82
5510	47.648	16.78
5550	47.251	16.74
5670	47.736	16.79

802.11n _HT40 (Aux)

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	47.892	16.80
5230	47.421	16.76
5270	47.130	16.73
5310	48.076	16.82
5510	47.440	16.76
5550	47.493	16.77
5670	47.094	16.73

6dB Bandwidth (5725 MHz~ 5850 MHz)

802.11a

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.437	12.16
5785	16.464	12.17
5825	16.391	12.15

802.11n_HT20 (Main)

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.698	12.48
5785	17.690	12.48
5825	17.692	12.48

802.11n_HT20 (Aux)

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.698	12.48
5785	17.779	12.50
5825	17.655	12.47

802.11n_HT40 (Main)

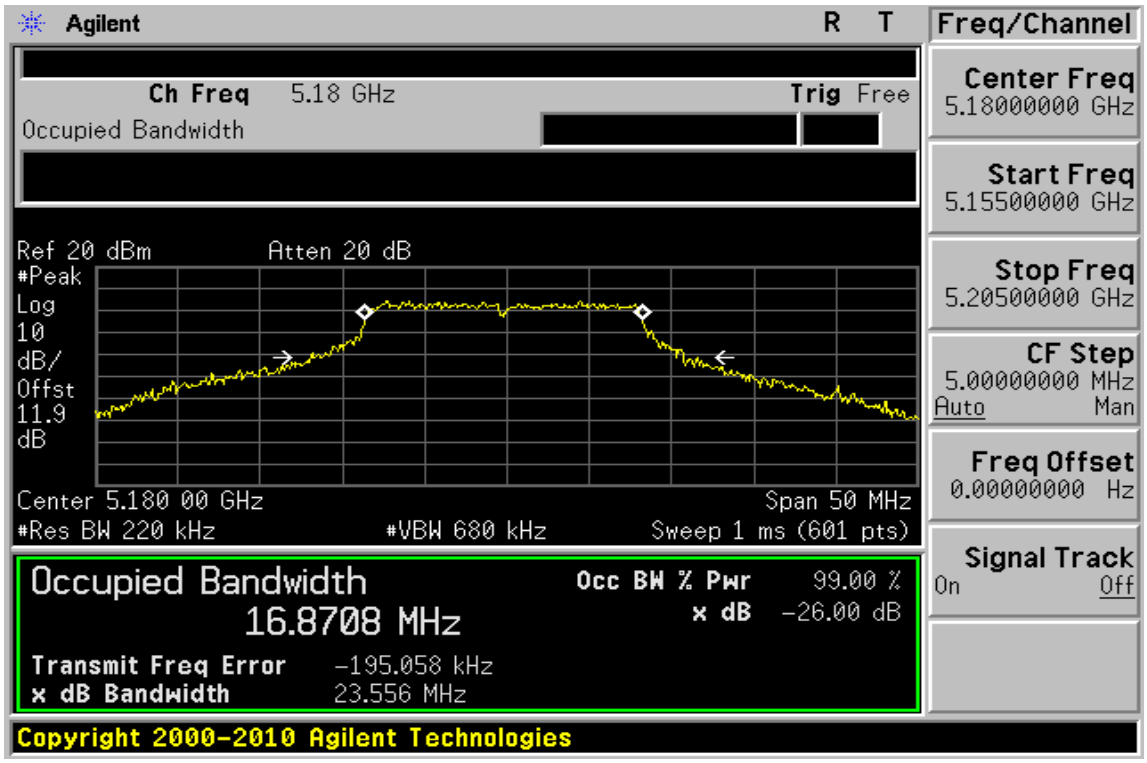
Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.398	15.61
5795	35.792	15.54

802.11n_HT40 (Aux)

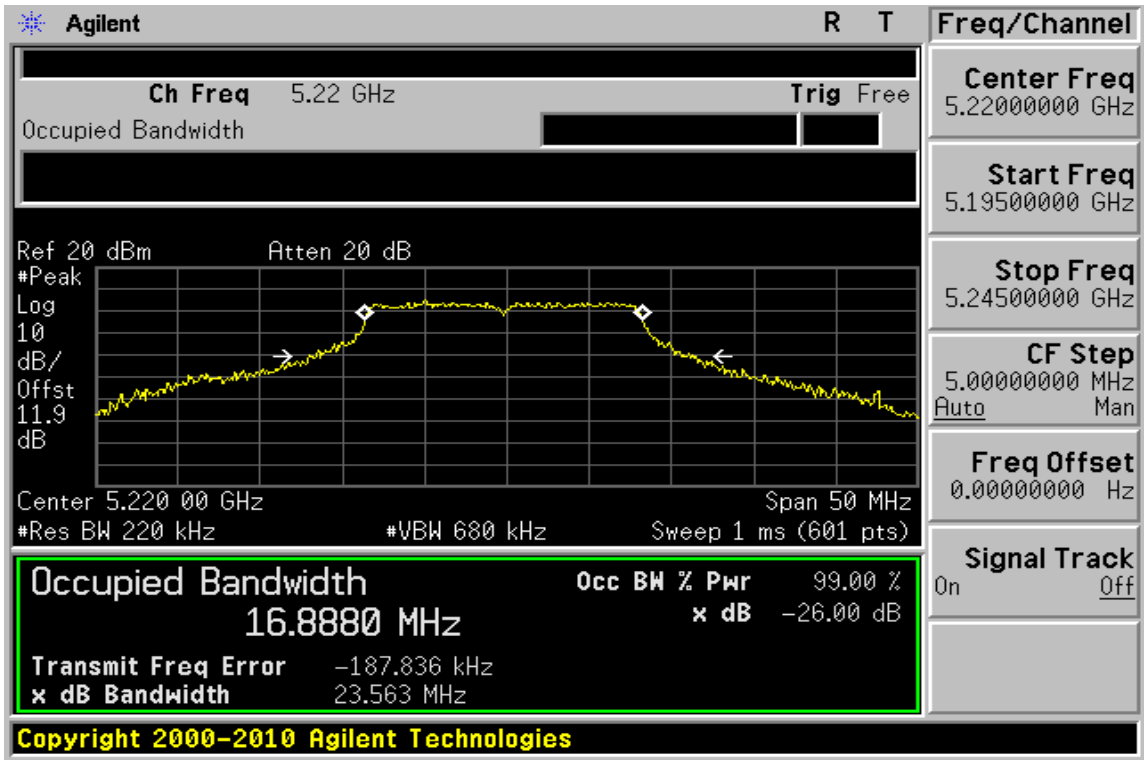
Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.327	15.60
5795	36.074	15.57

802.11a, 5150~5250 MHz

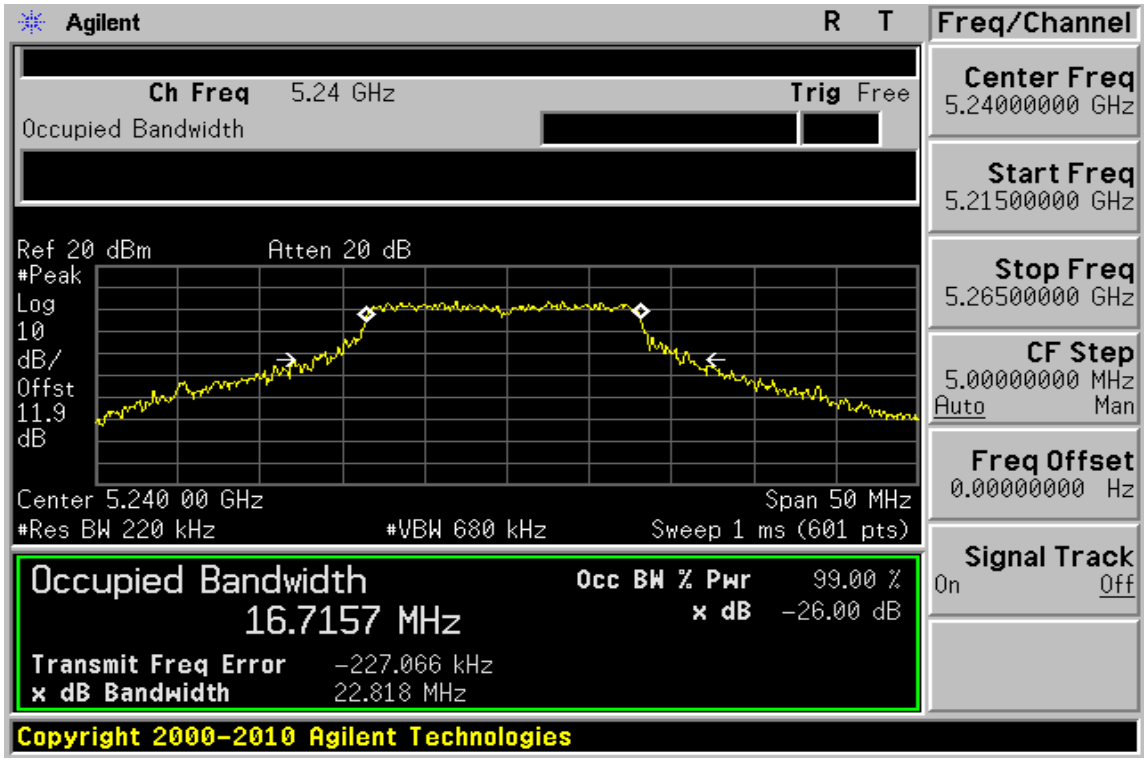
26dB Band Width Test Data CH-Low (5180MHz)



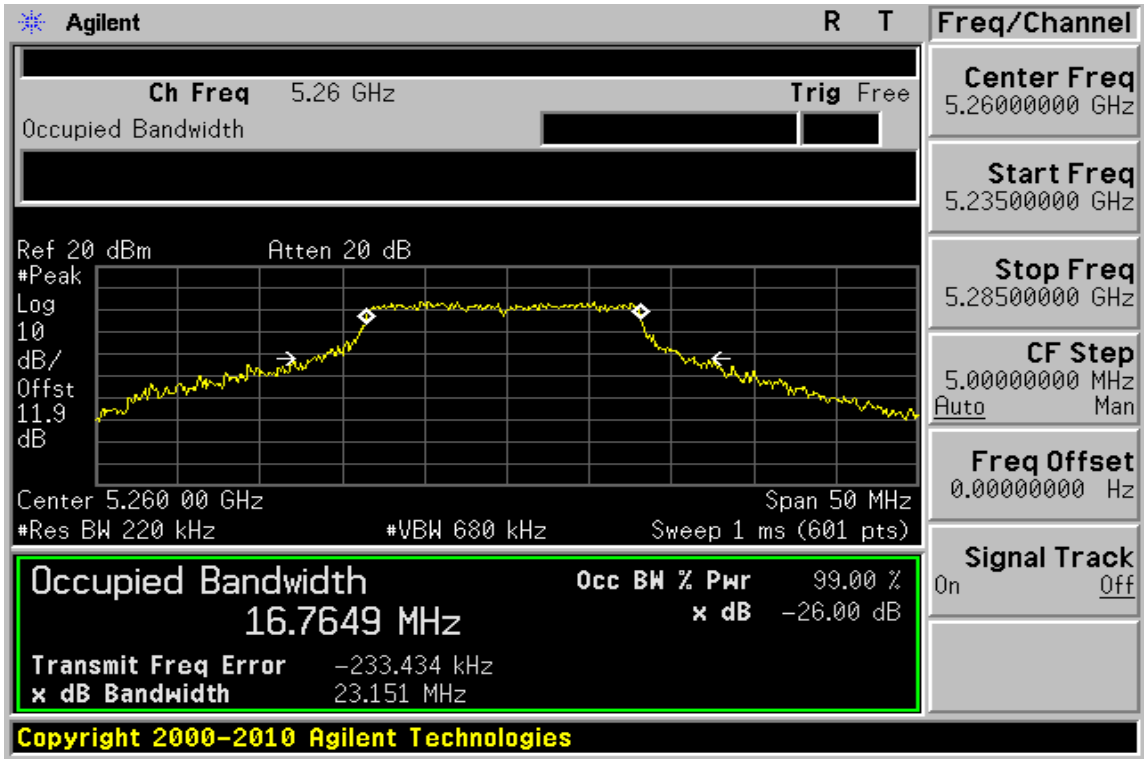
26dB Band Width Test Data CH-Mid (5220MHz)



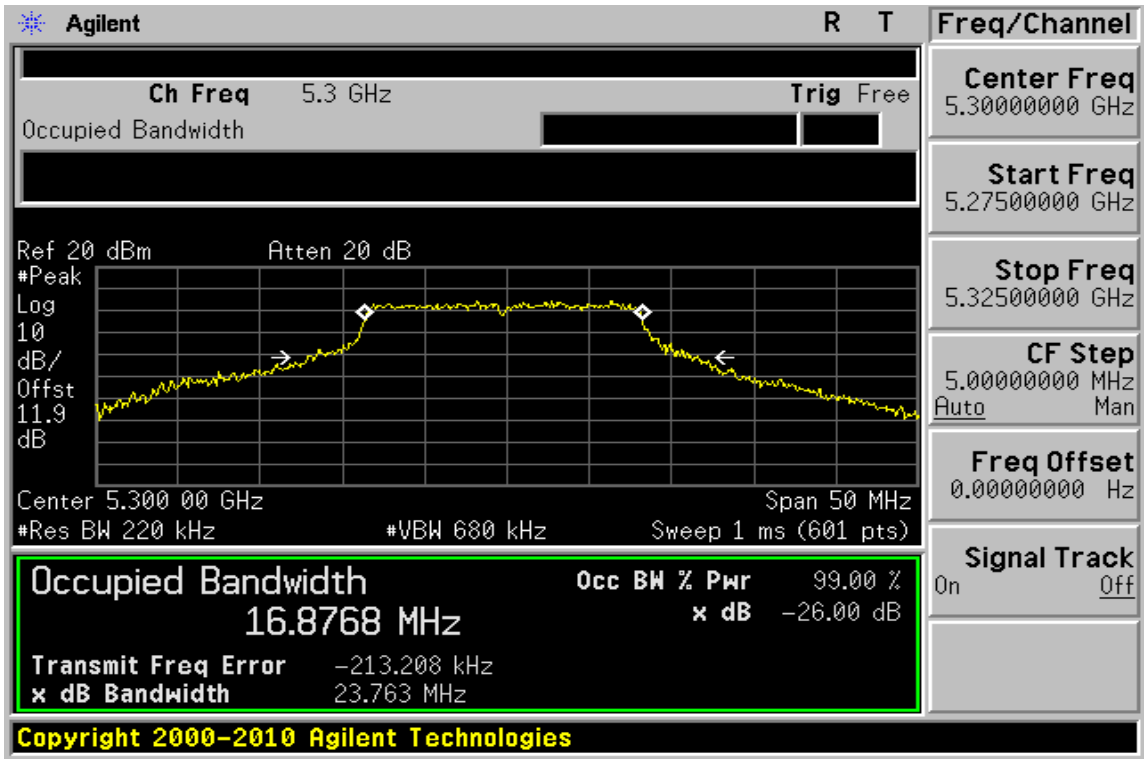
26dB Band Width Test Data CH-High (5240MHz)



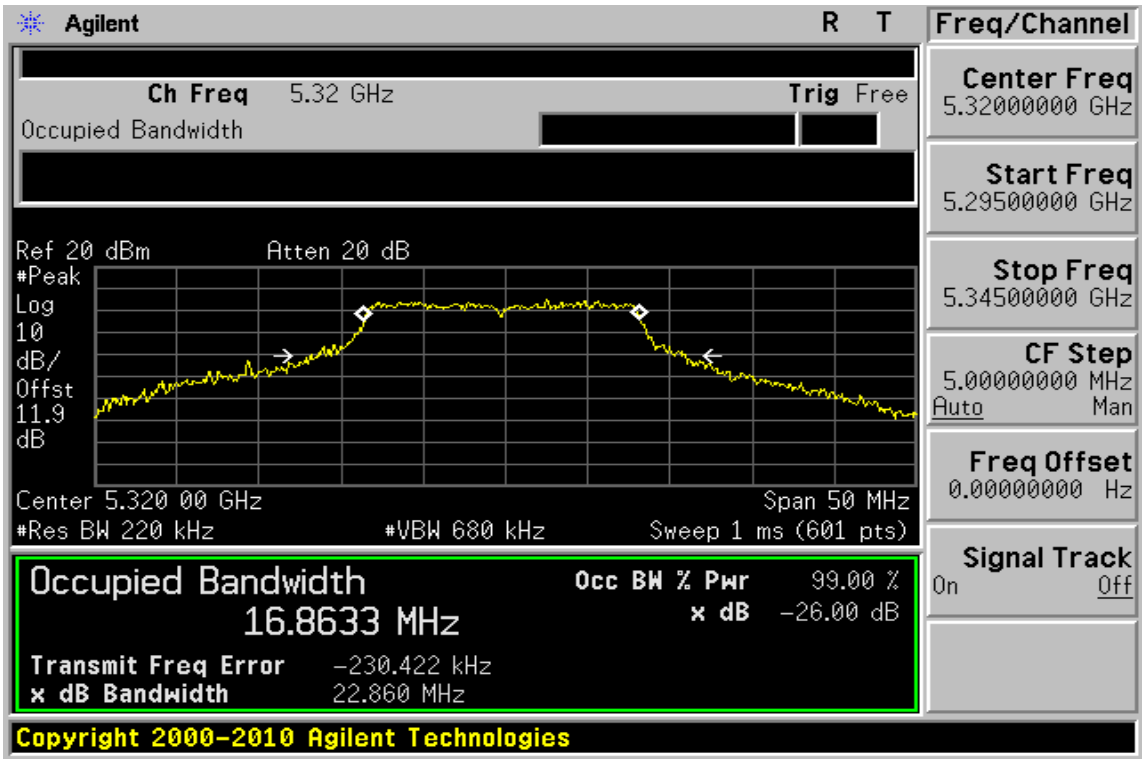
802.11a, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260MHz)



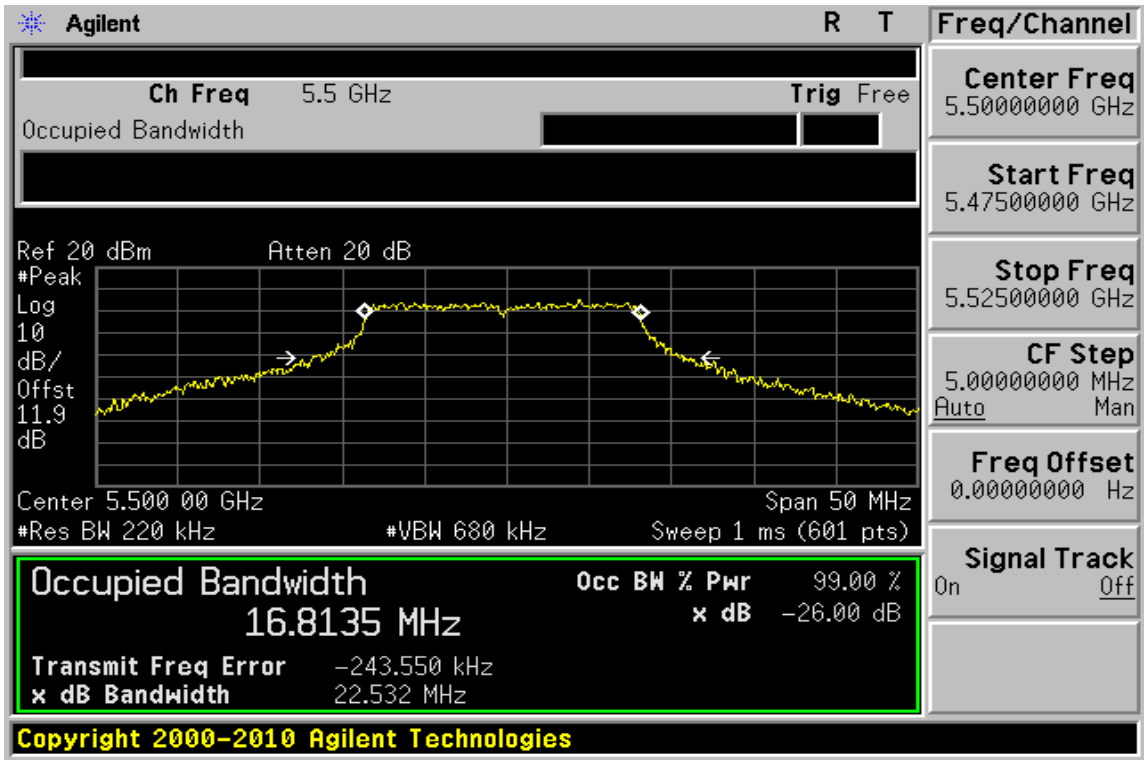
26dB Band Width Test Data CH-Mid (5300MHz)



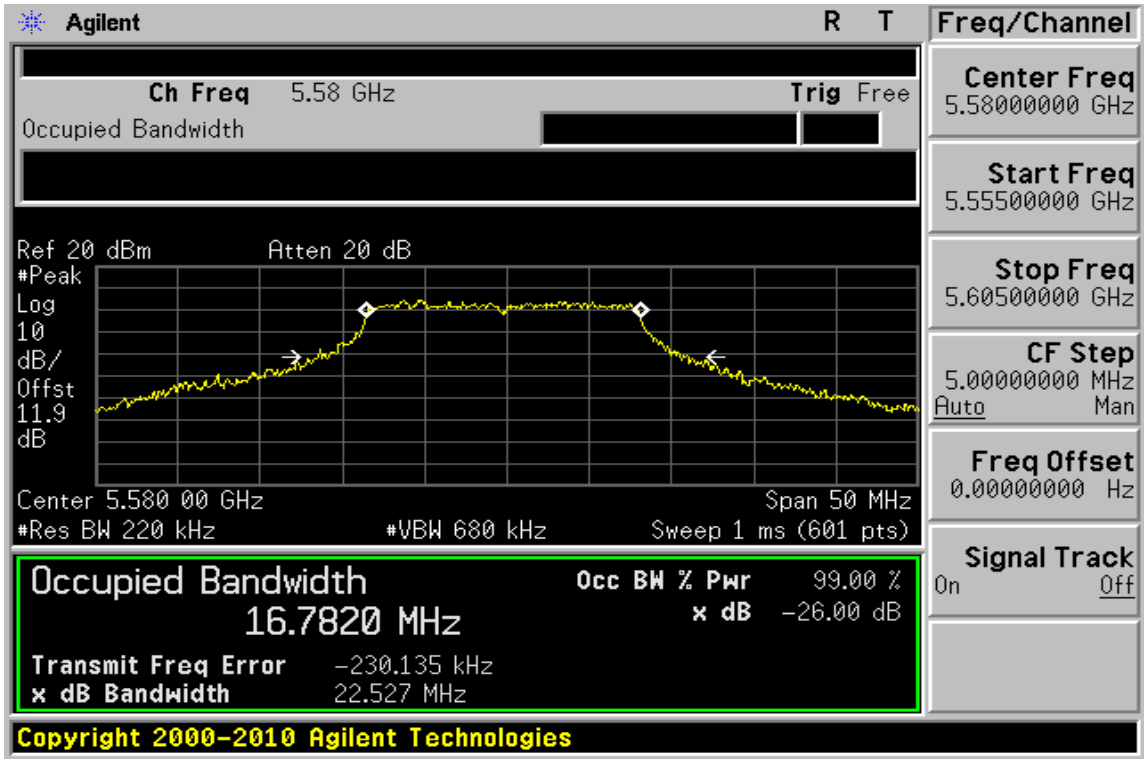
26dB Band Width Test Data CH-High (5320MHz)



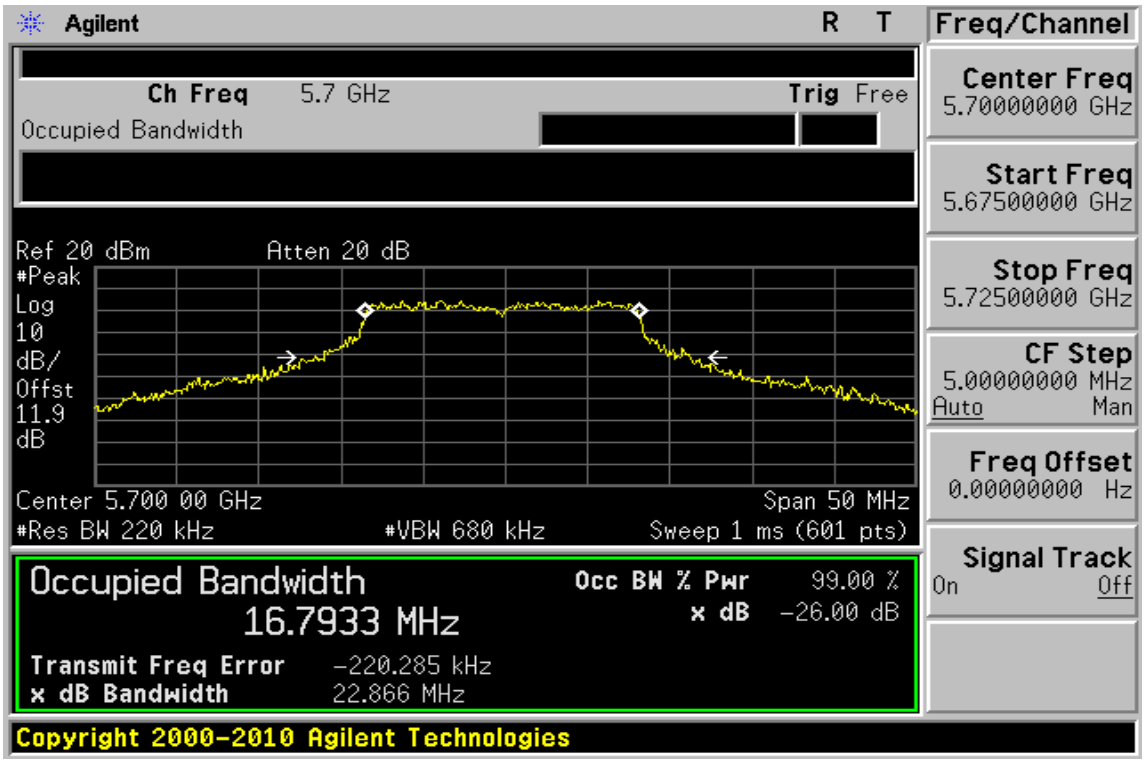
802.11a, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500MHz)



26dB Band Width Test Data CH-Mid (5580MHz)

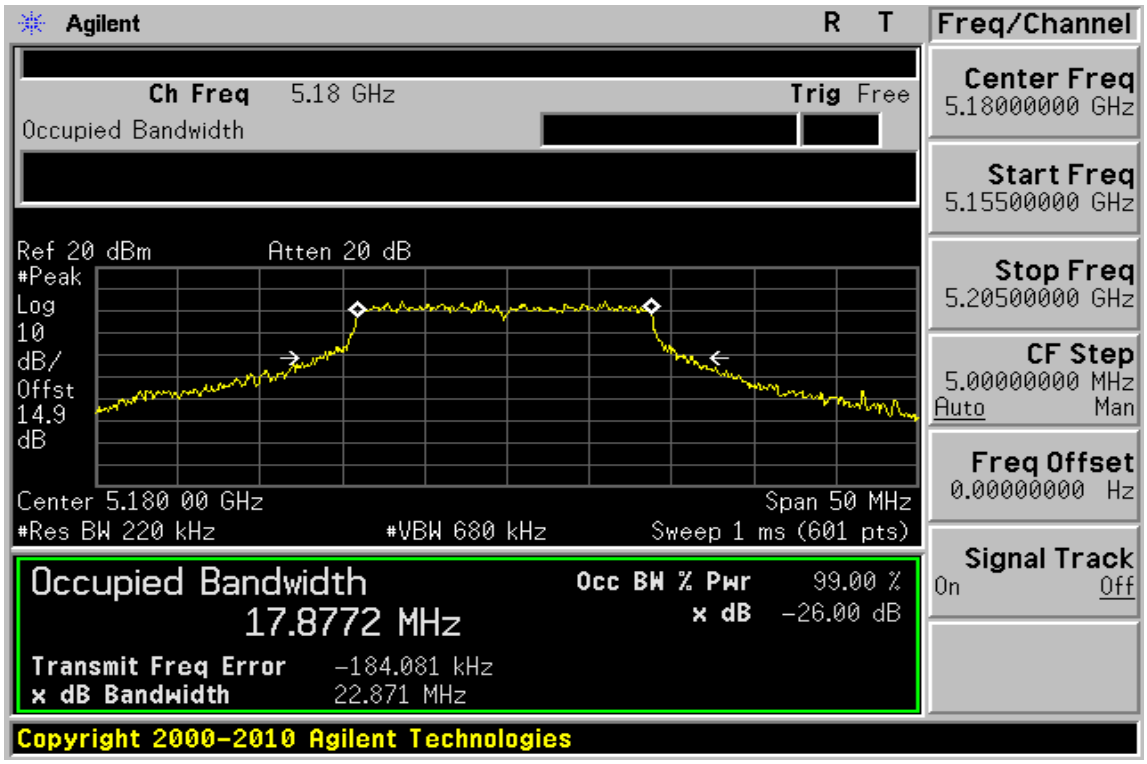


26dB Band Width Test Data CH-High (5700MHz)

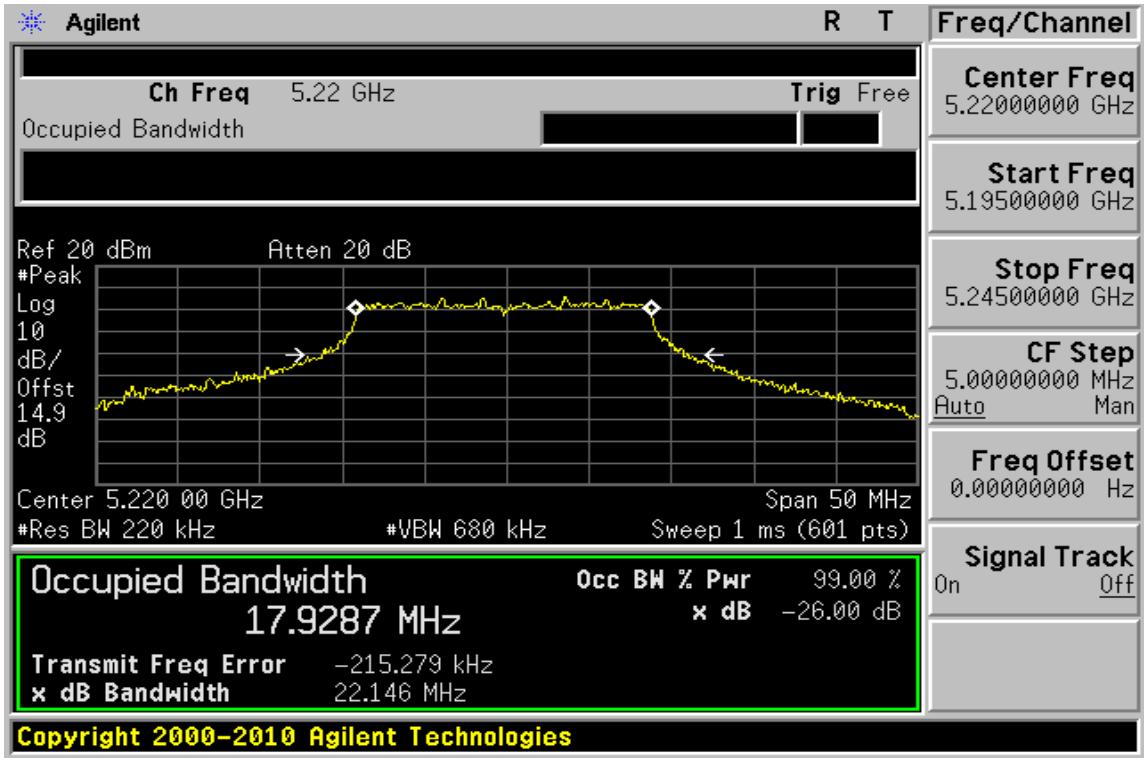


802.11n HT20, 5150~5250 MHz (Main)

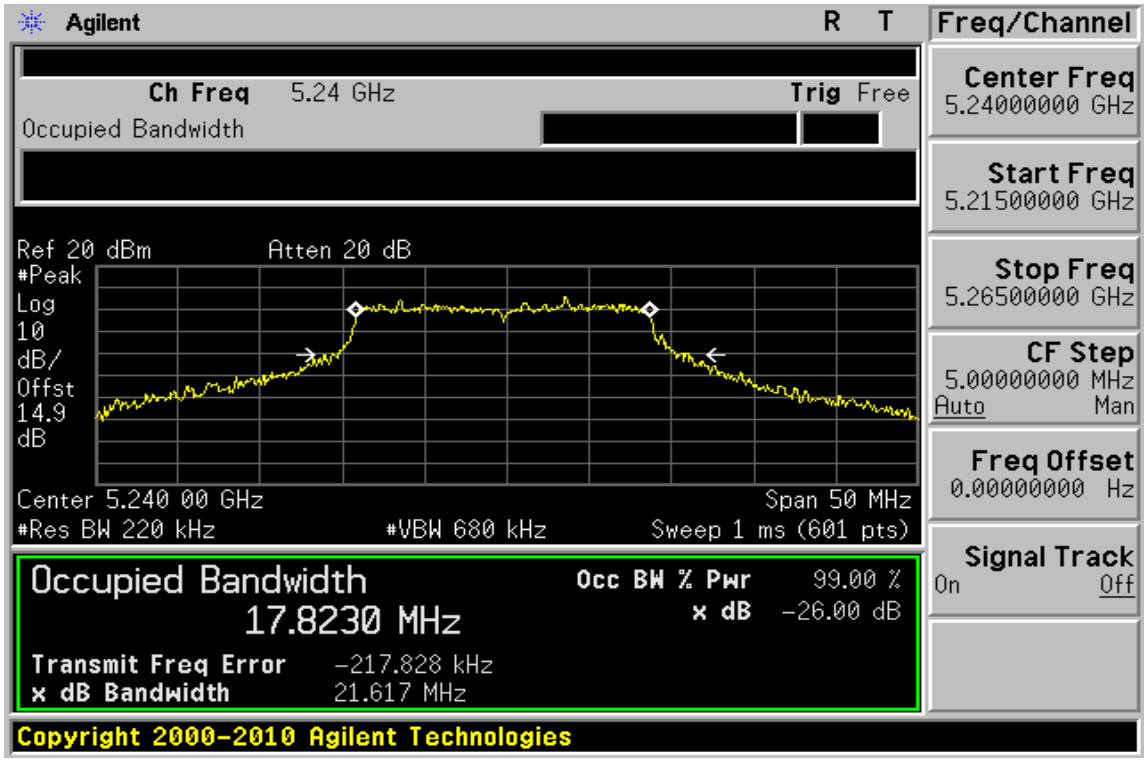
26dB Band Width Test Data CH-Low (5180 MHz)



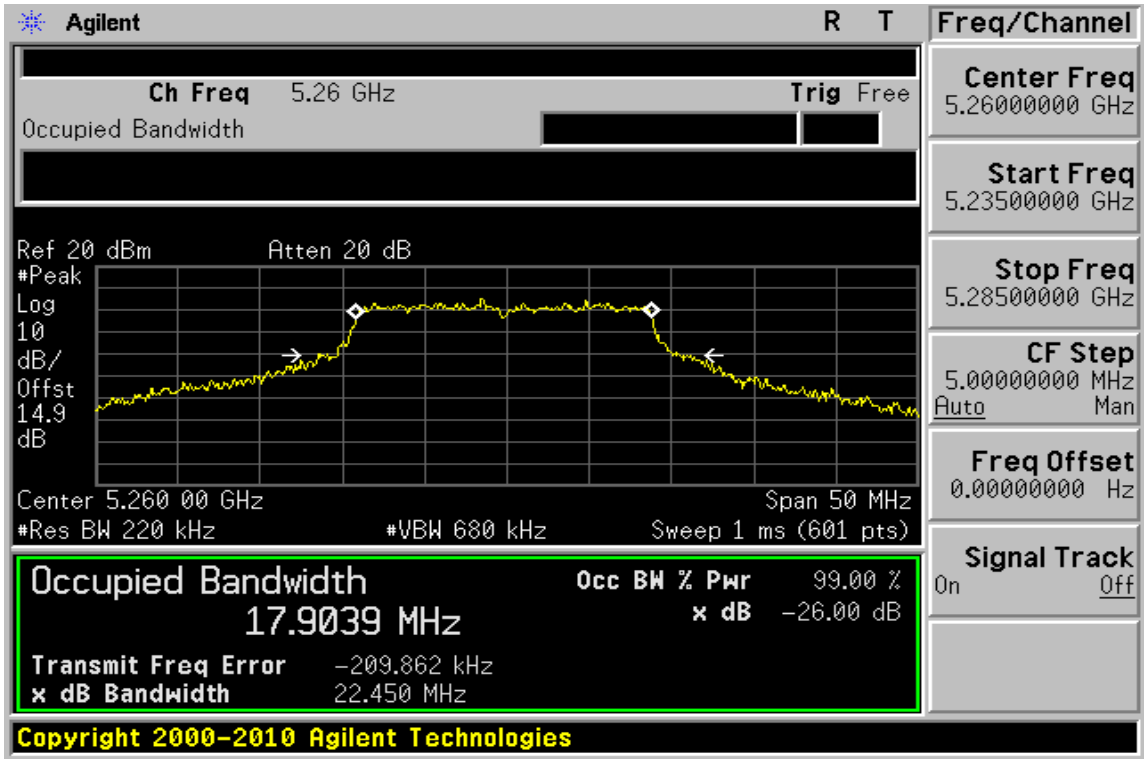
26dB Band Width Test Data CH-Mid (5220 MHz)



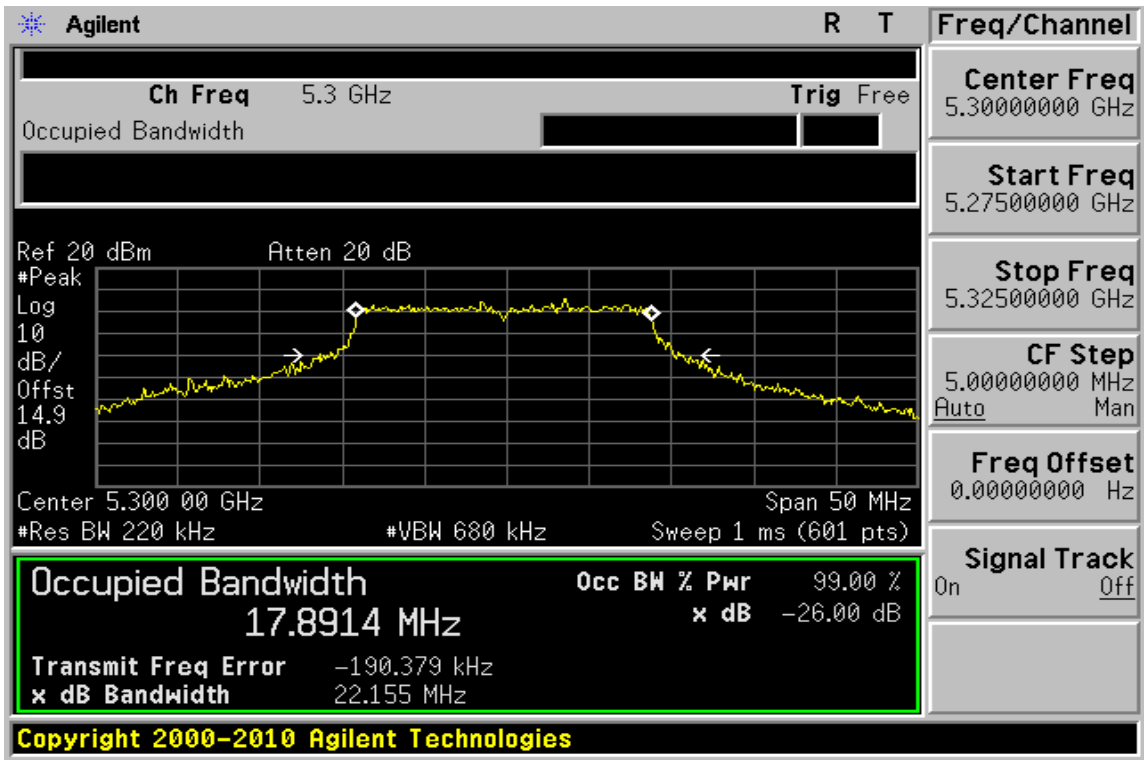
26dB Band Width Test Data CH-High (5240 MHz)



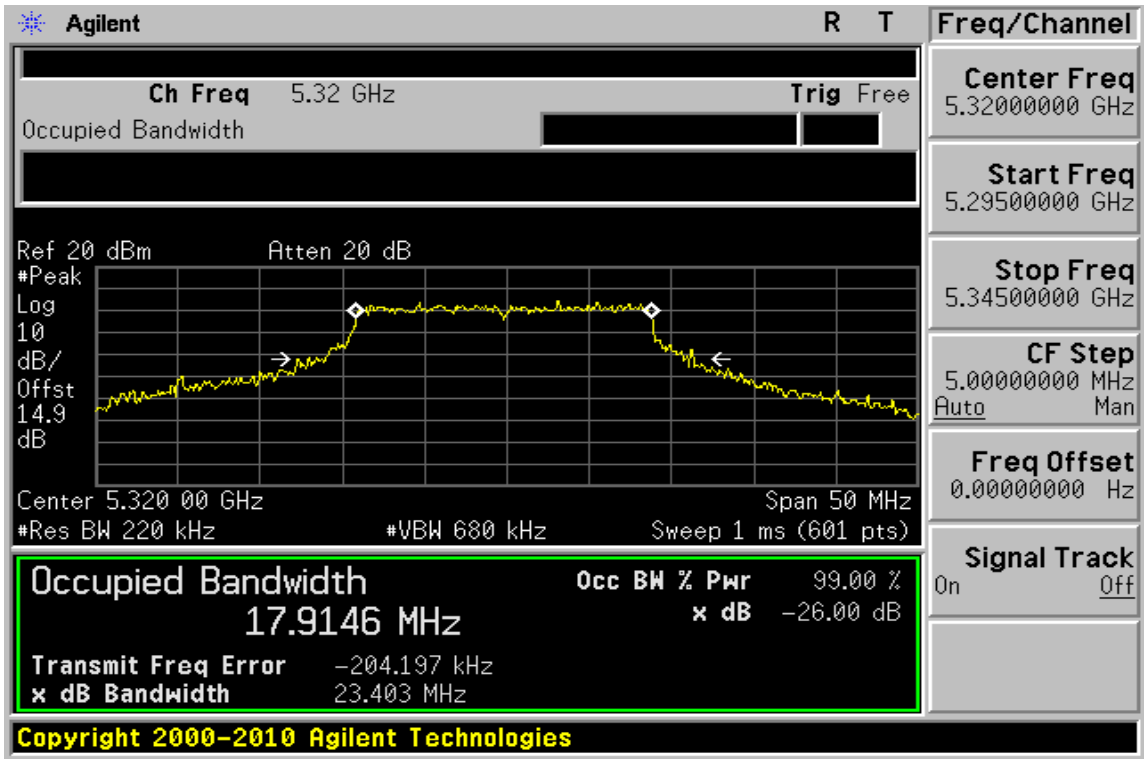
802.11n HT20, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5260 MHz)



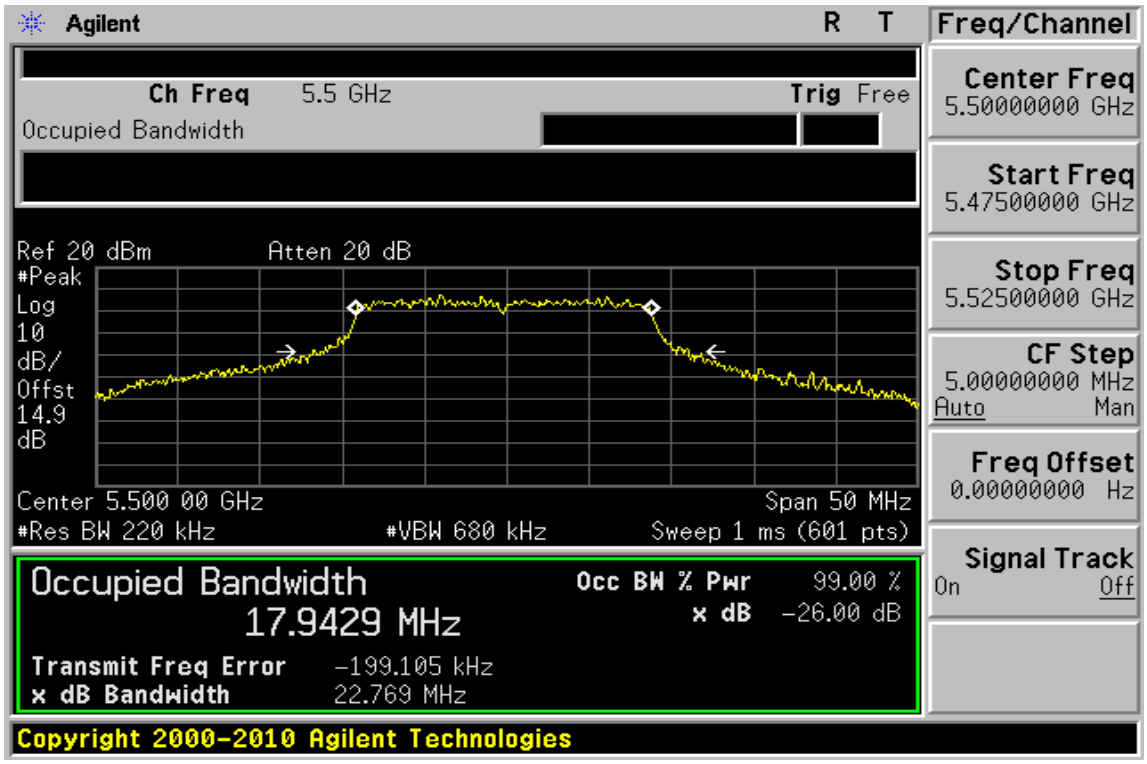
26dB Band Width Test Data CH-Mid (5300 MHz)



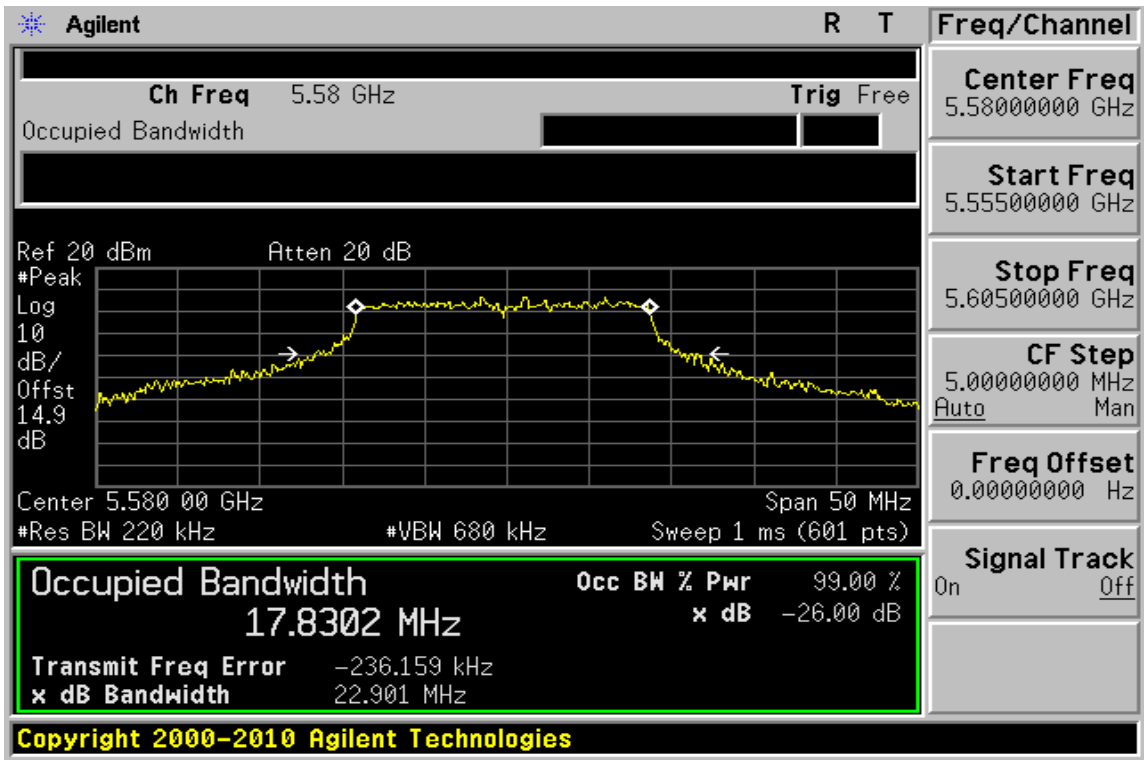
26dB Band Width Test Data CH-High (5320 MHz)



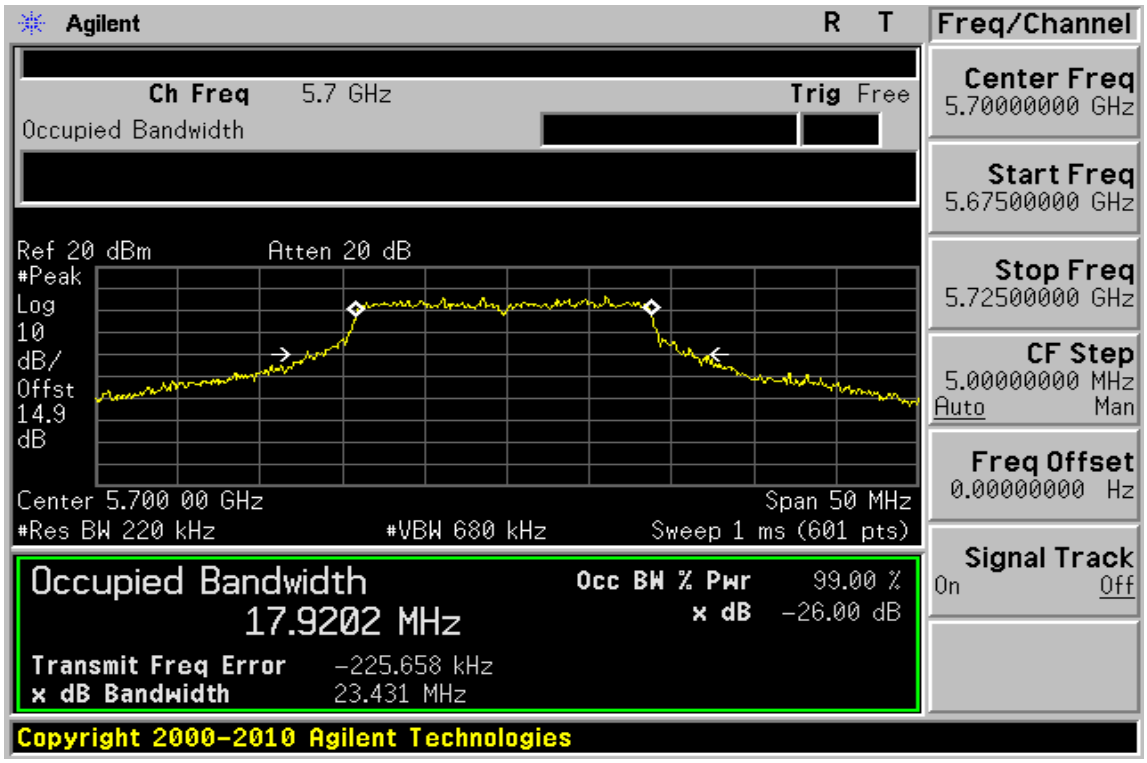
802.11n HT20, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5500 MHz)



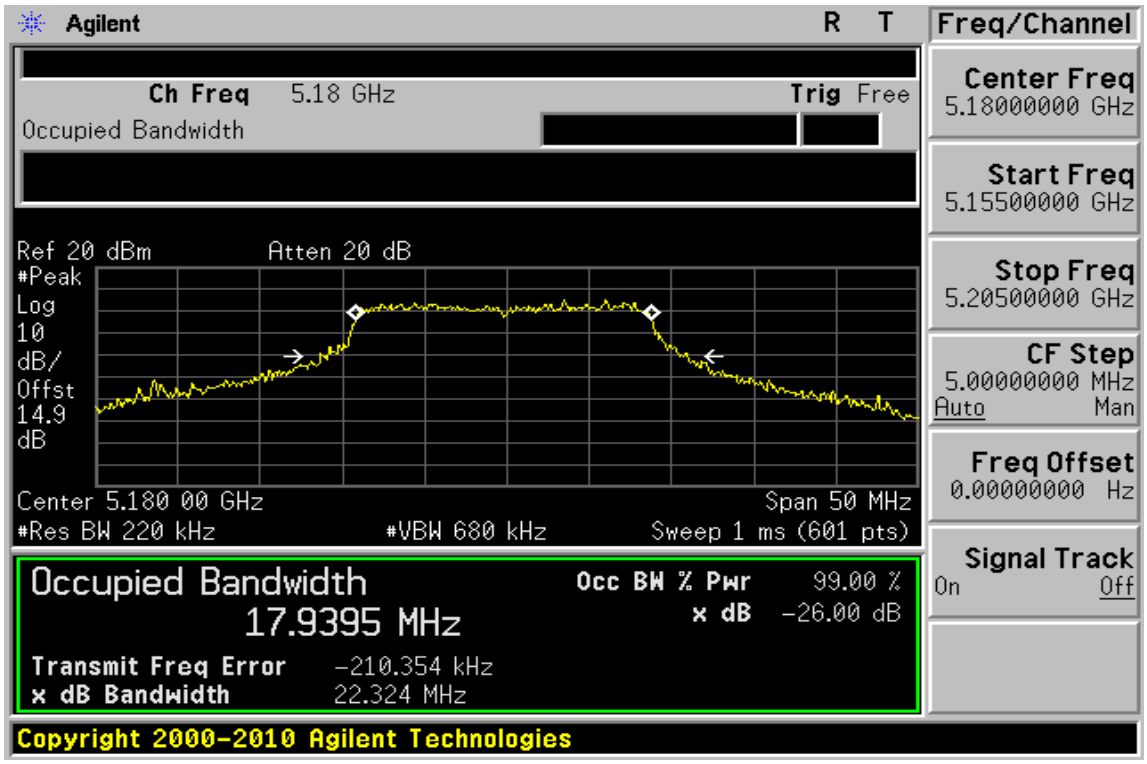
26dB Band Width Test Data CH-Mid (5580 MHz)



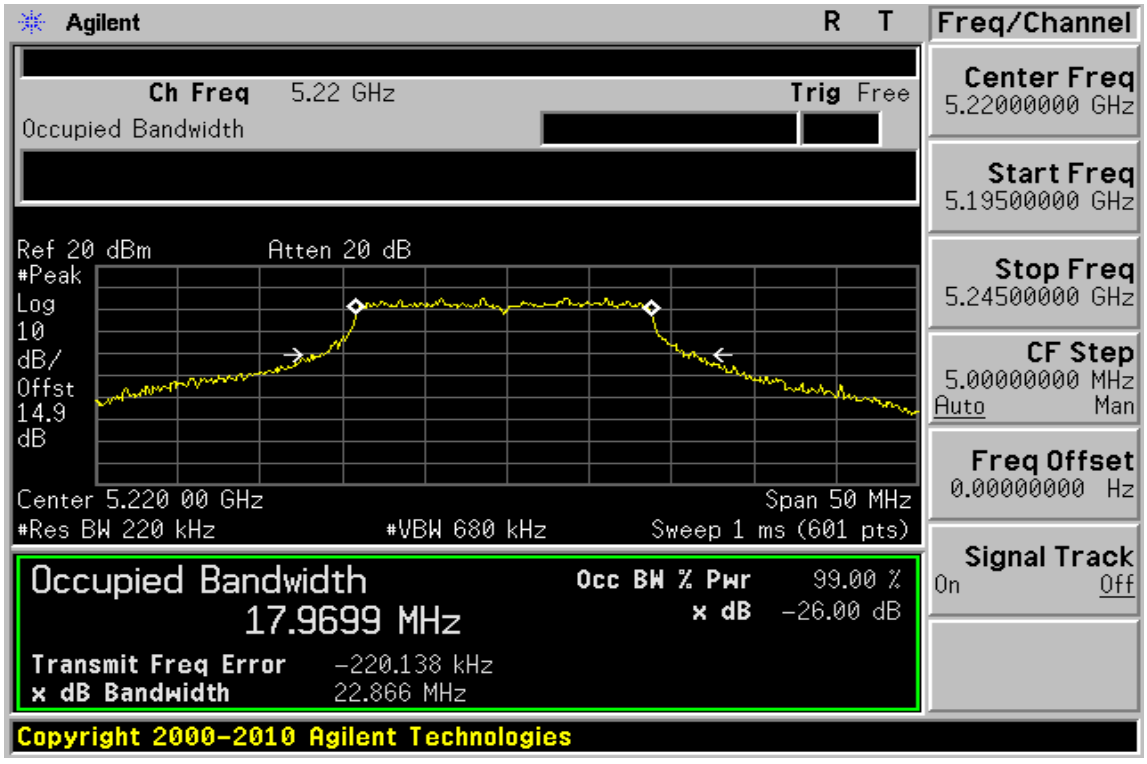
26dB Band Width Test Data CH-High (5700 MHz)



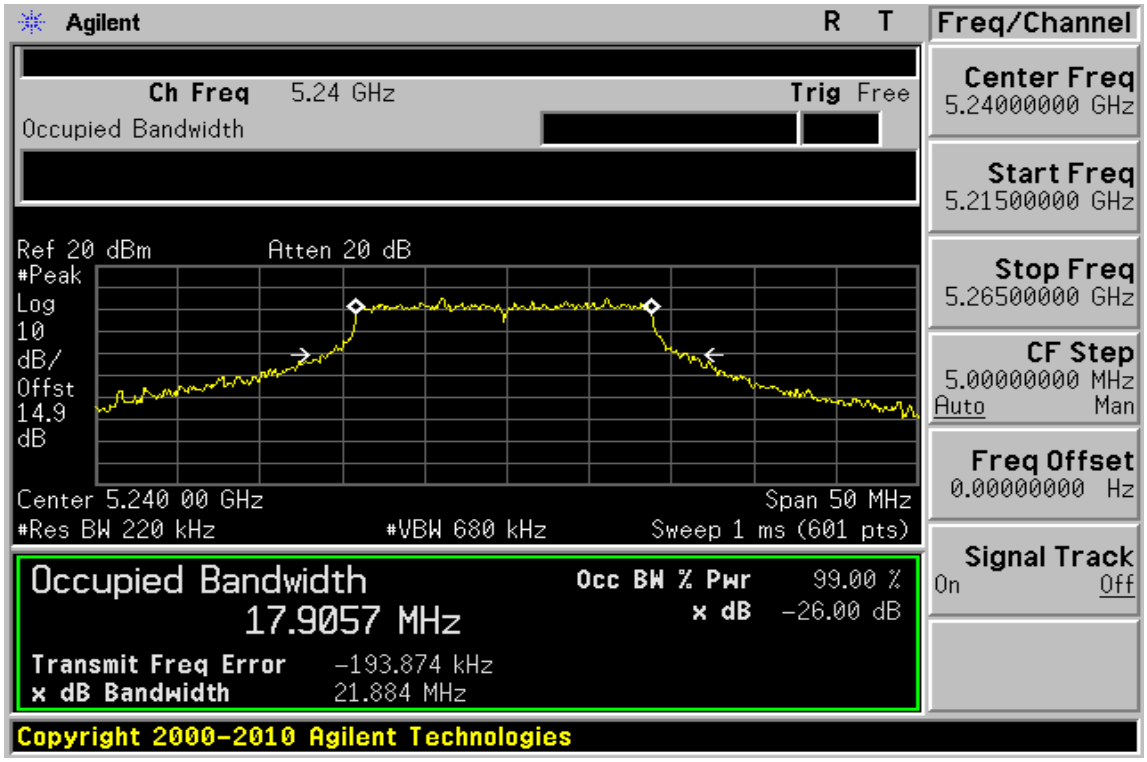
802.11n HT20, 5150~5250 MHz (Aux)
26dB Band Width Test Data CH-Low (5180 MHz)



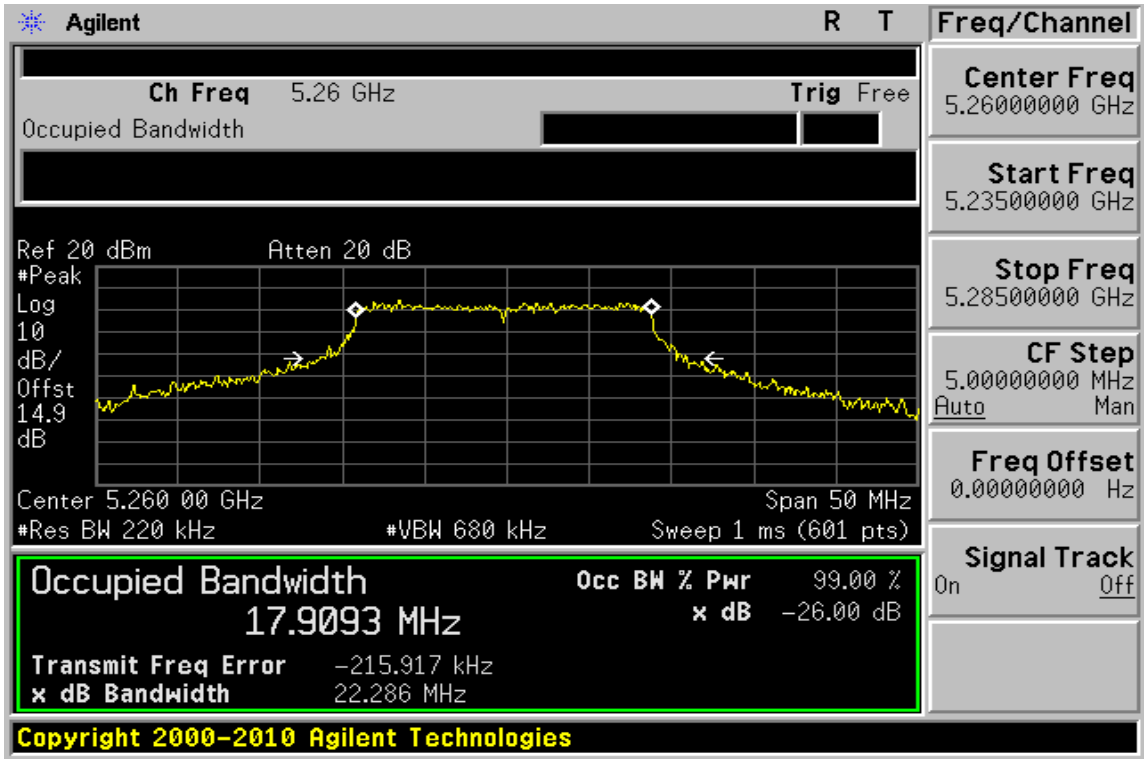
26dB Band Width Test Data CH-Mid (5220 MHz)



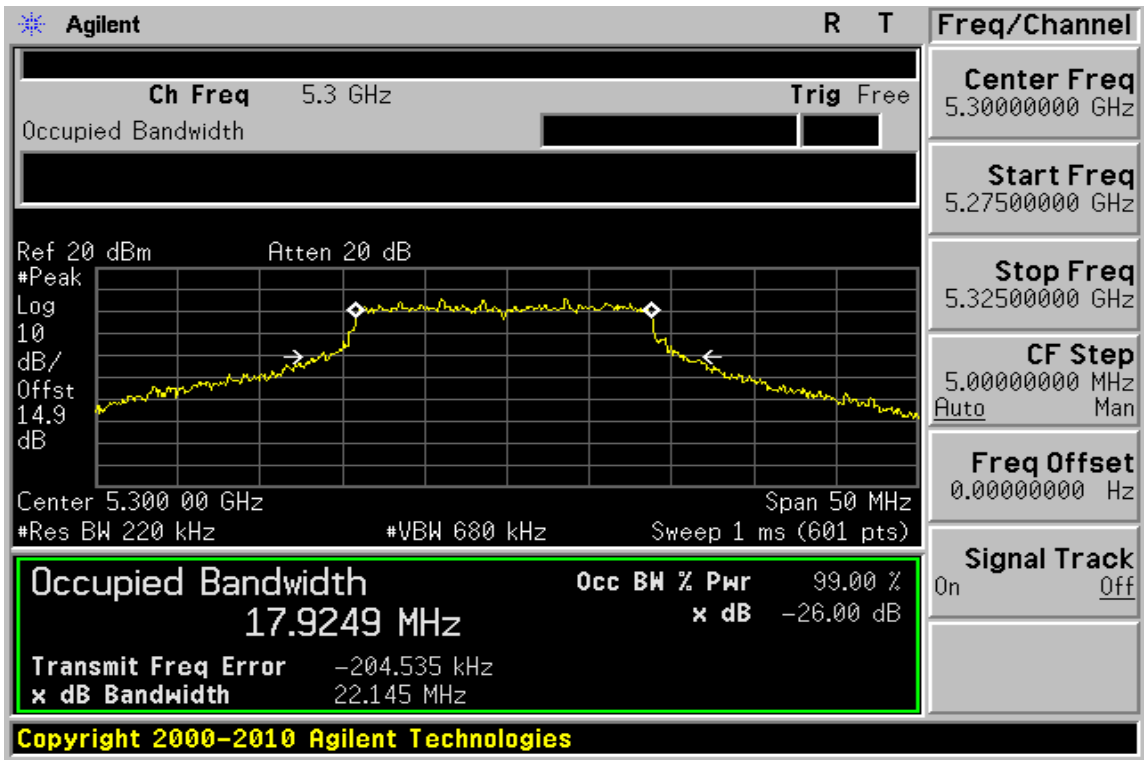
26dB Band Width Test Data CH-High (5240 MHz)



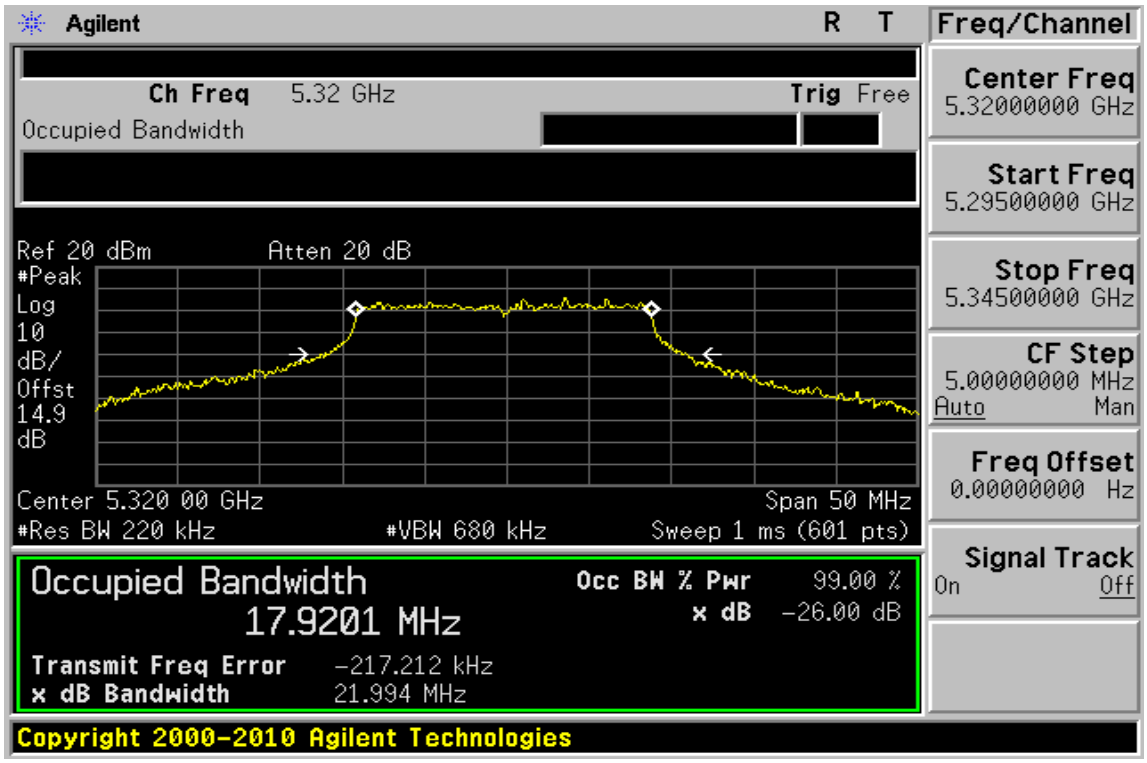
802.11n HT20, 5250~5350 MHz (Aux)
26dB Band Width Test Data CH-Low (5260 MHz)



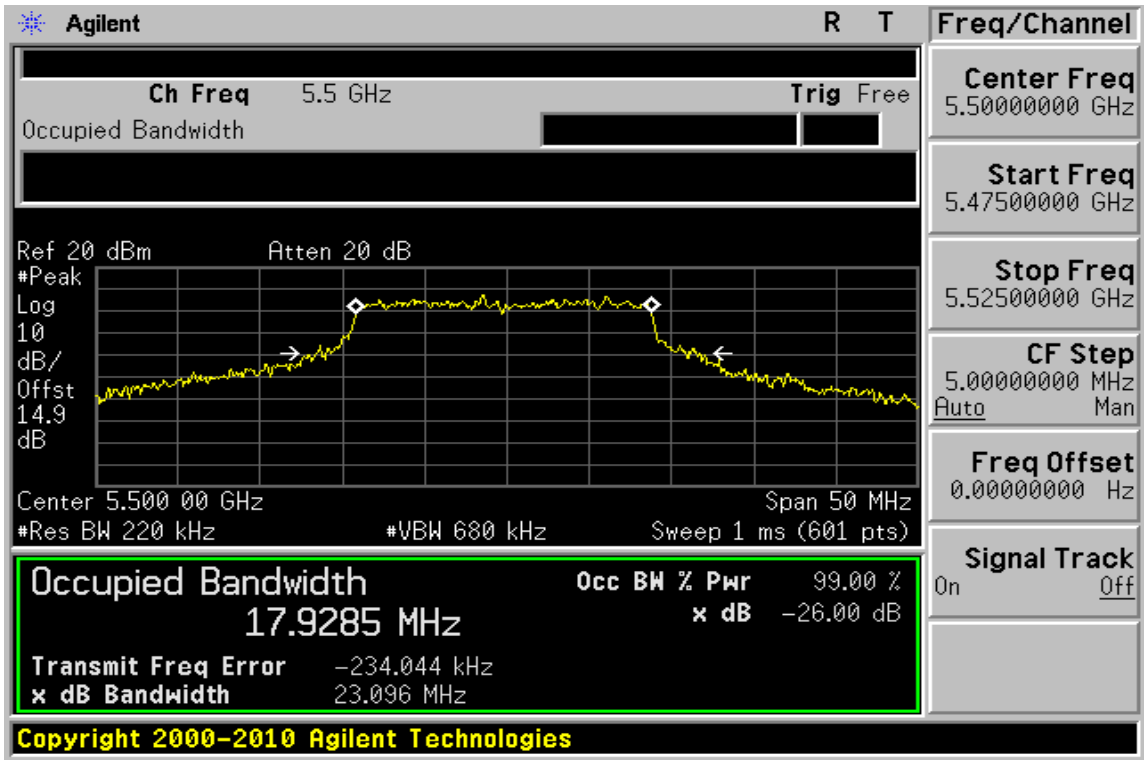
26dB Band Width Test Data CH-Mid (5300 MHz)



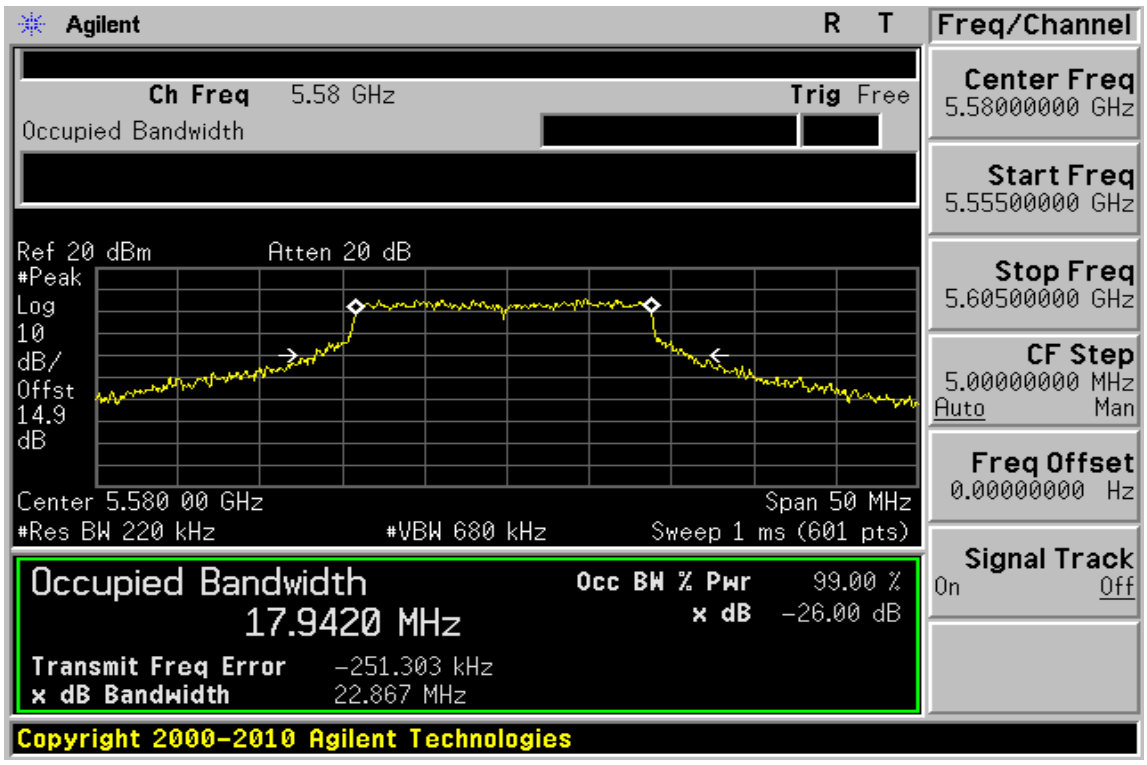
26dB Band Width Test Data CH-High (5320 MHz)



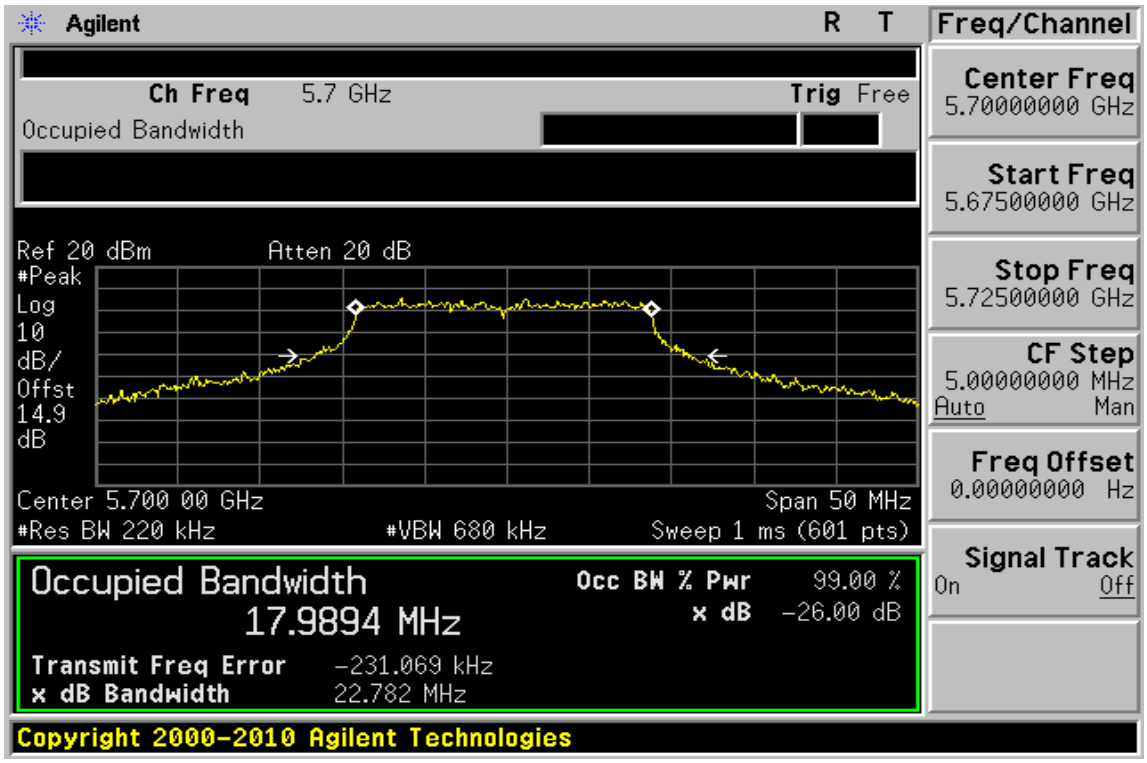
802.11n HT20, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)

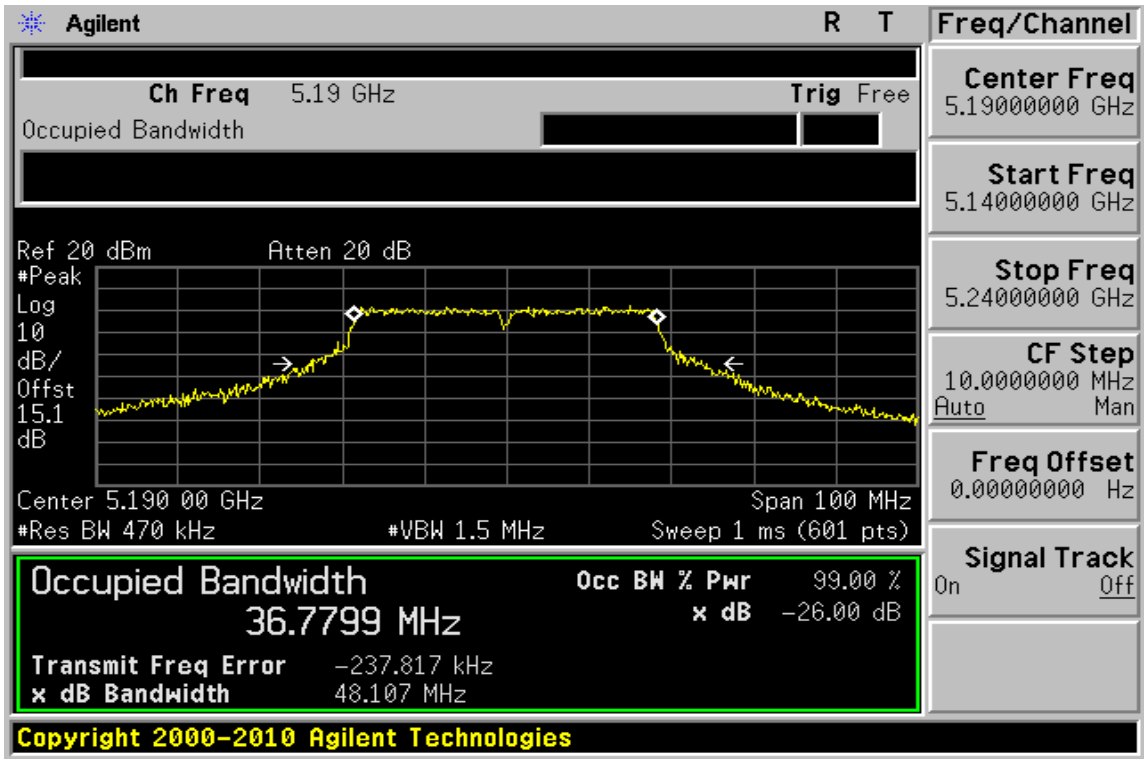


26dB Band Width Test Data CH-High (5700 MHz)

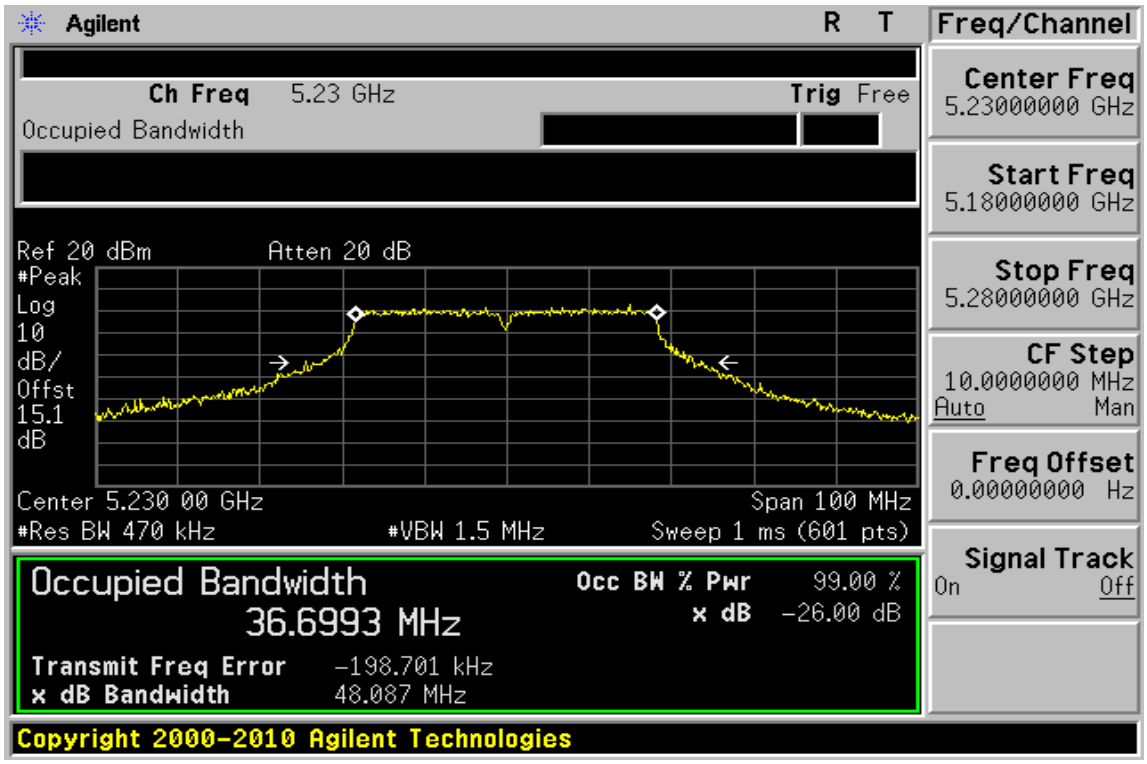


802.11n HT40, 5150~5250 MHz (Main)

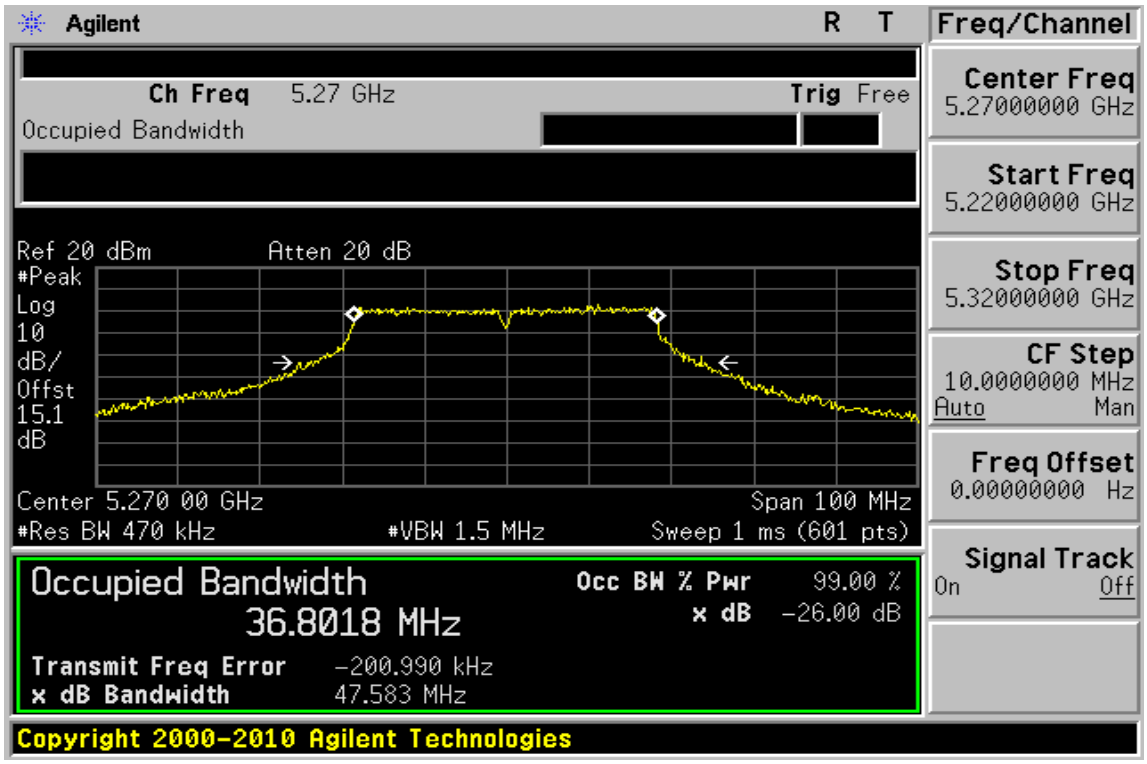
26dB Band Width Test Data CH-Low (5190 MHz)



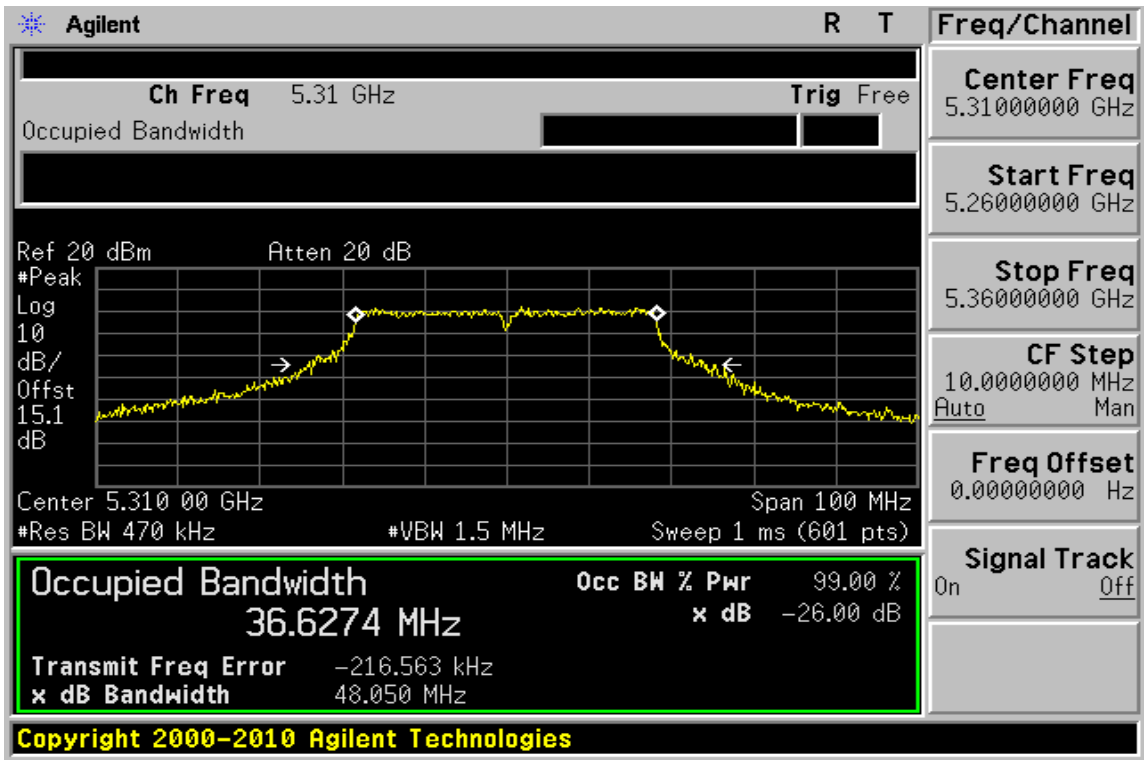
26dB Band Width Test Data CH-High (5230 MHz)



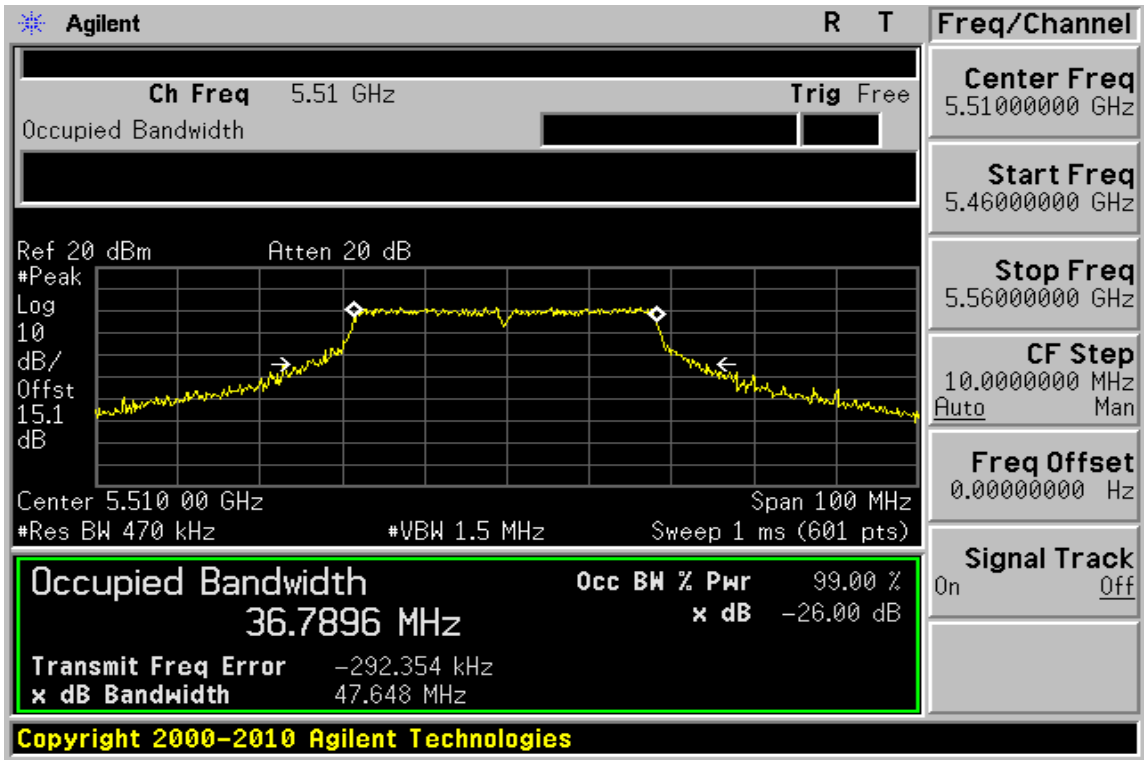
802.11n HT40, 5250~5350 MHz (Main)
26dB Band Width Test Data CH-Low (5270 MHz)



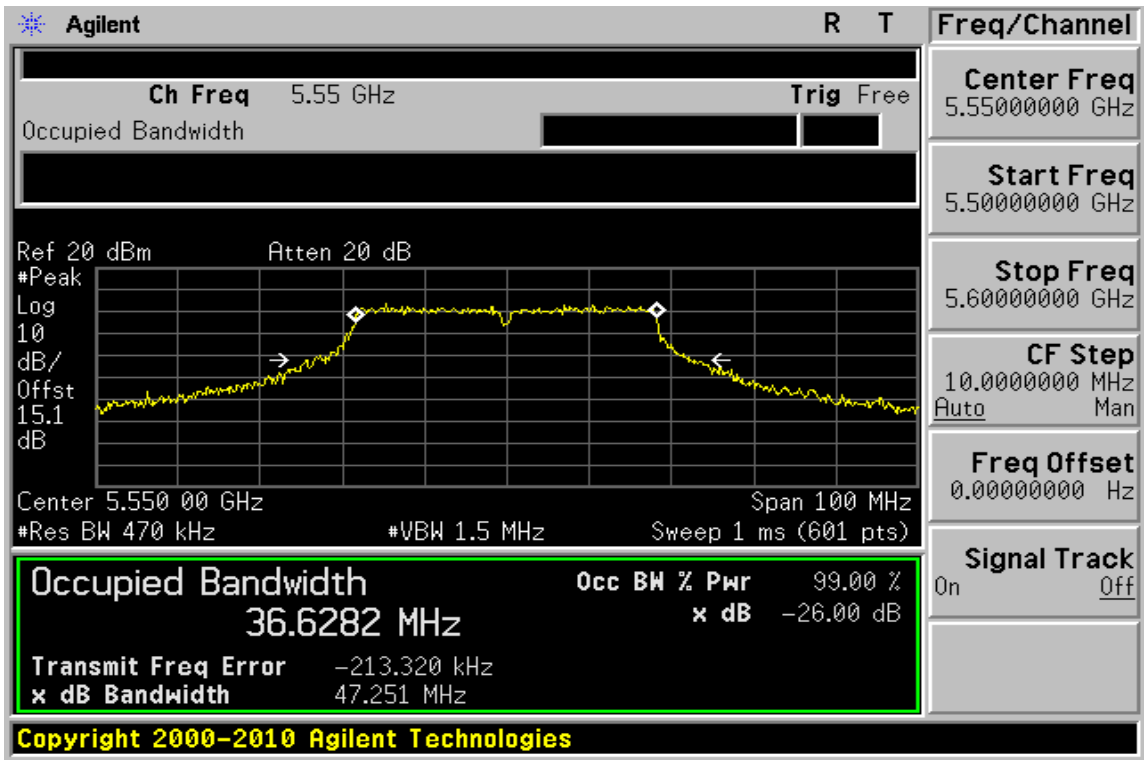
26dB Band Width Test Data CH-High (5310MHz)



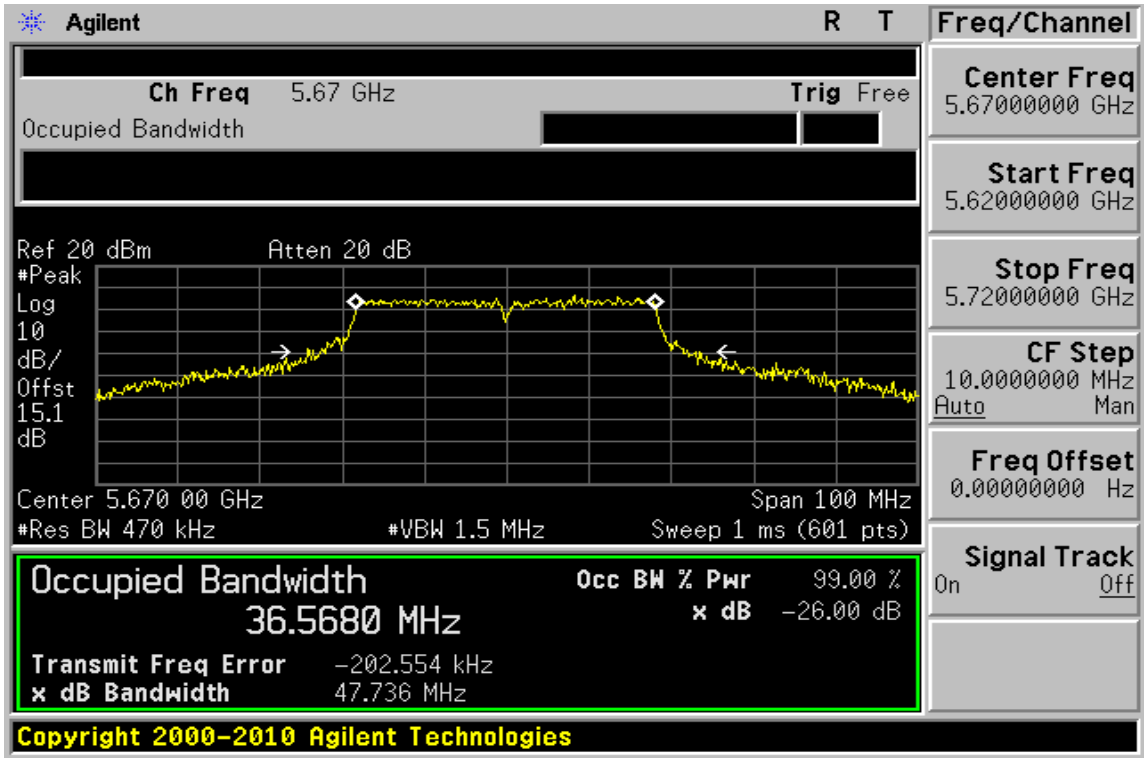
802.11n HT40, 5470~5725 MHz (Main)
26dB Band Width Test Data CH-Low (5510 MHz)



26dB Band Width Test Data CH-Mid (5550 MHz)

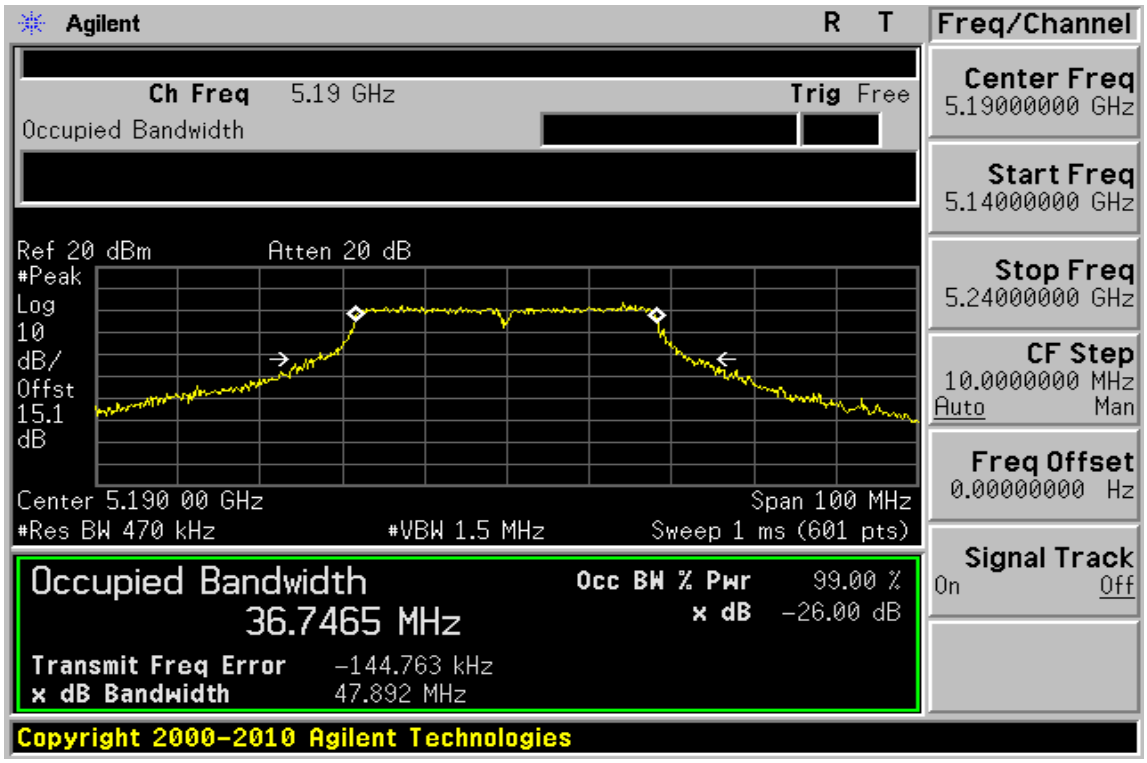


26dB Band Width Test Data CH-High (5670 MHz)

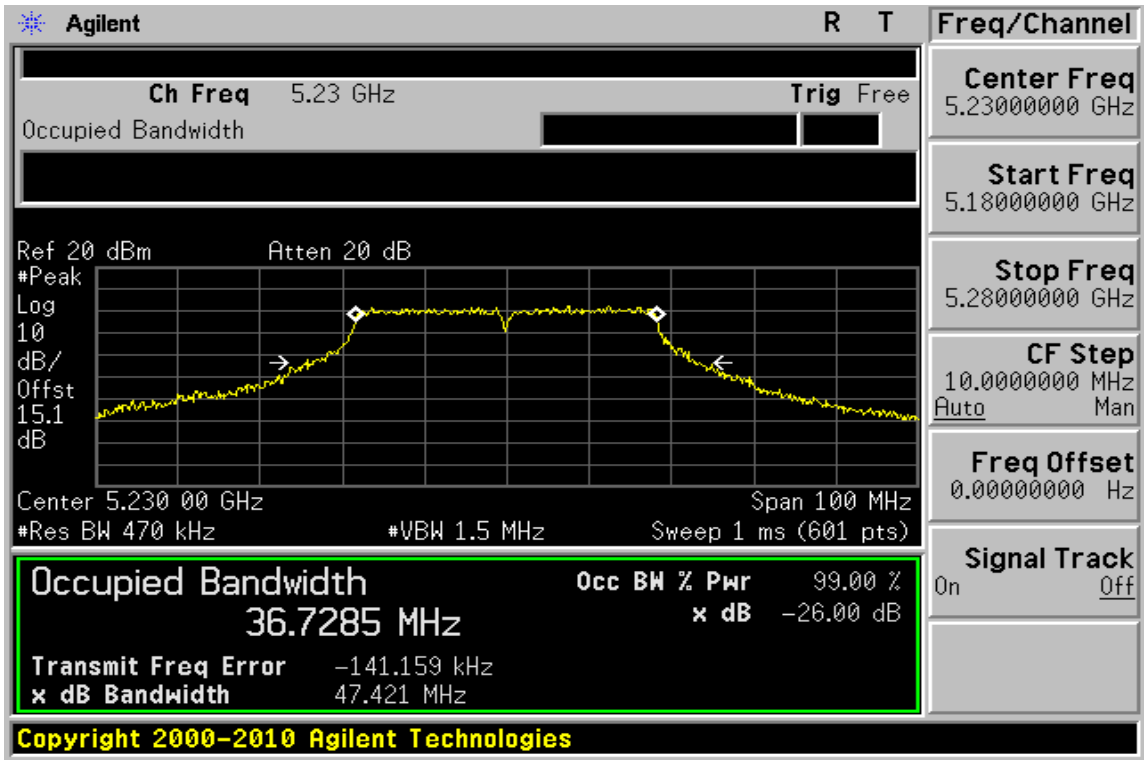


802.11n HT40, 5150~5250 MHz (Aux)

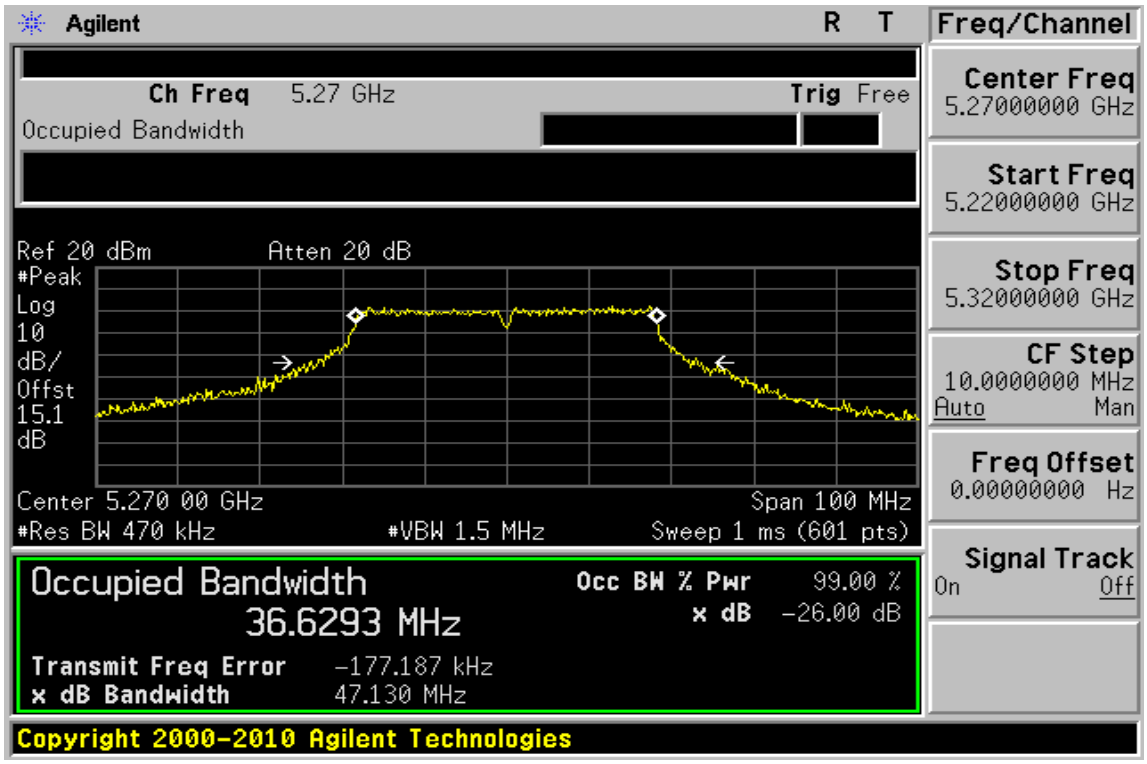
26dB Band Width Test Data CH-Low (5190 MHz)



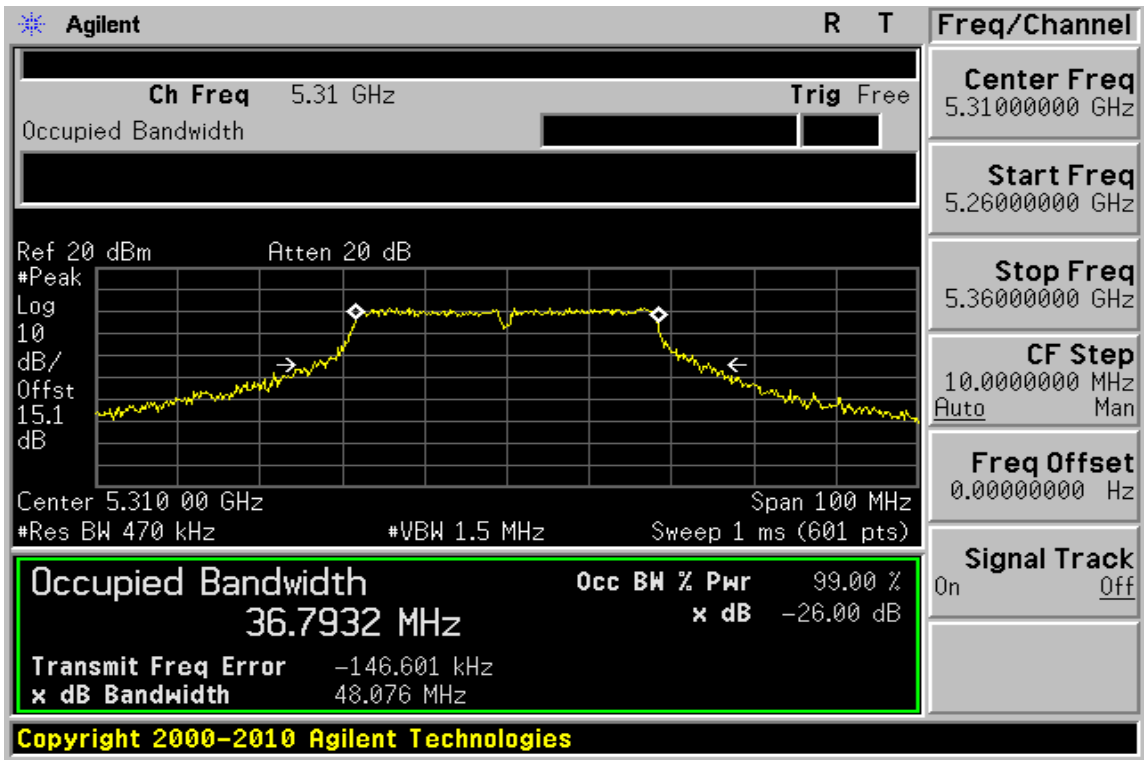
26dB Band Width Test Data CH-High (5230 MHz)



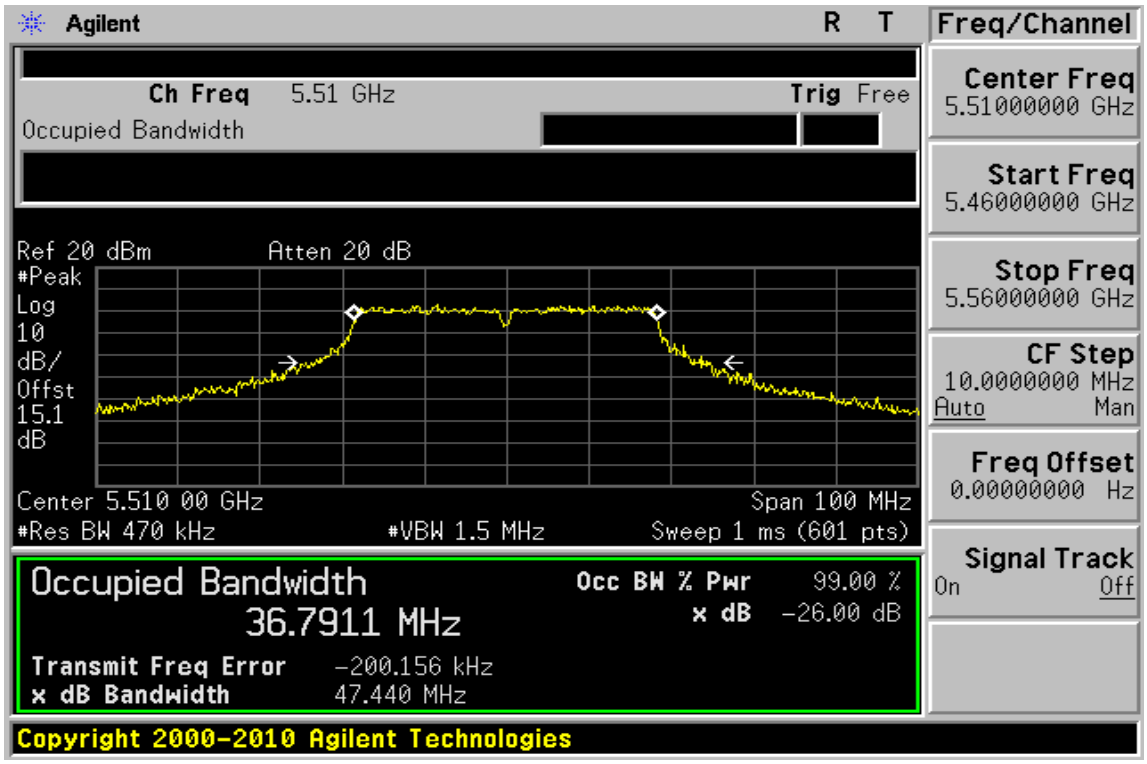
802.11n HT40, 5250~5350 MHz (Aux)
26dB Band Width Test Data CH-Low (5270 MHz)



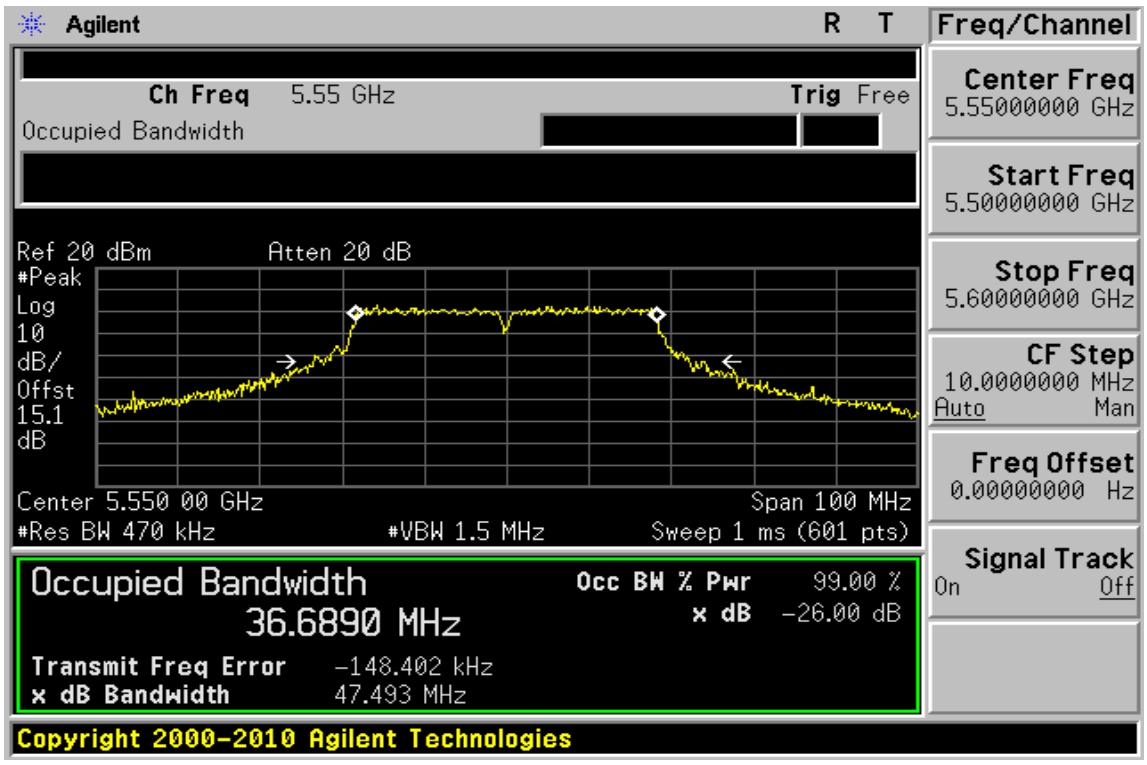
26dB Band Width Test Data CH-High (5310MHz)



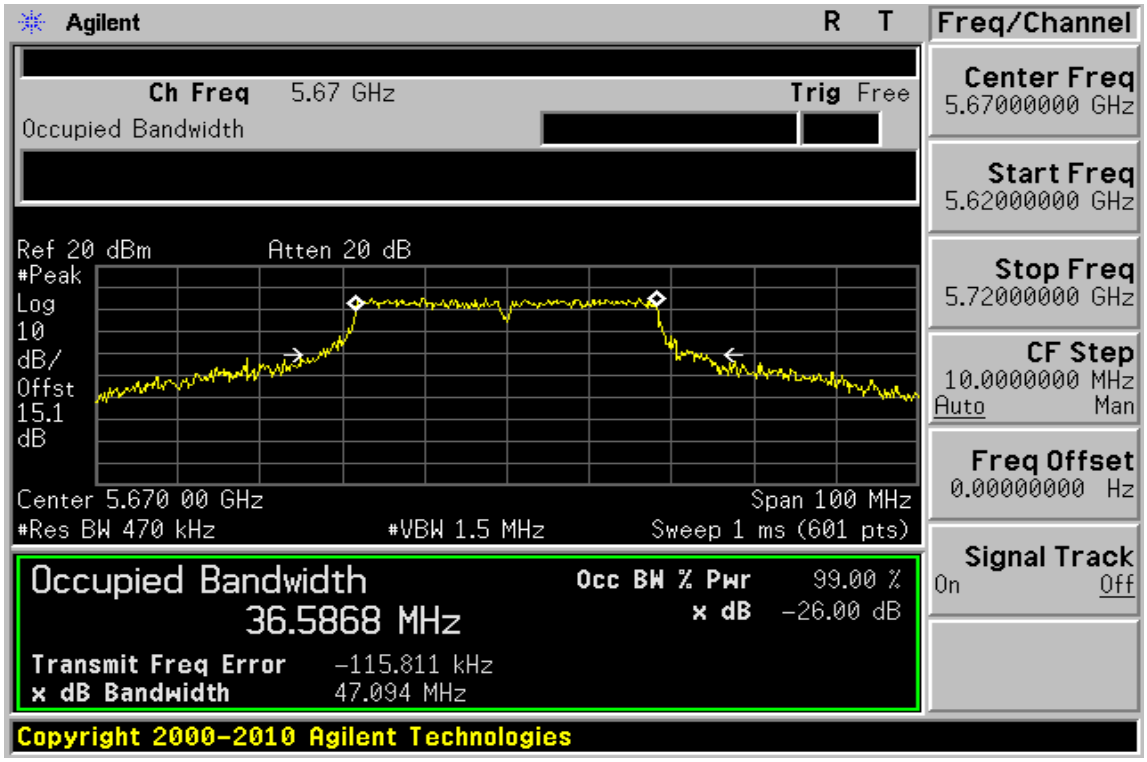
802.11n HT40, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-Low (5510 MHz)



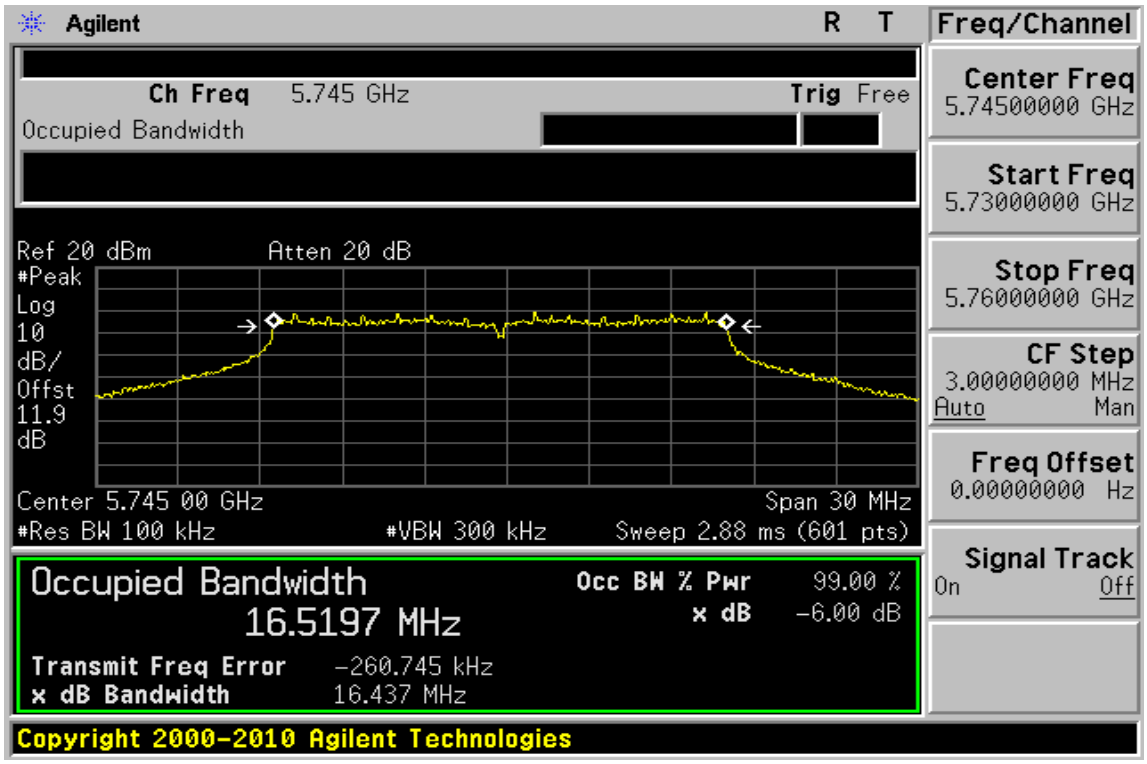
26dB Band Width Test Data CH-Mid (5550 MHz)



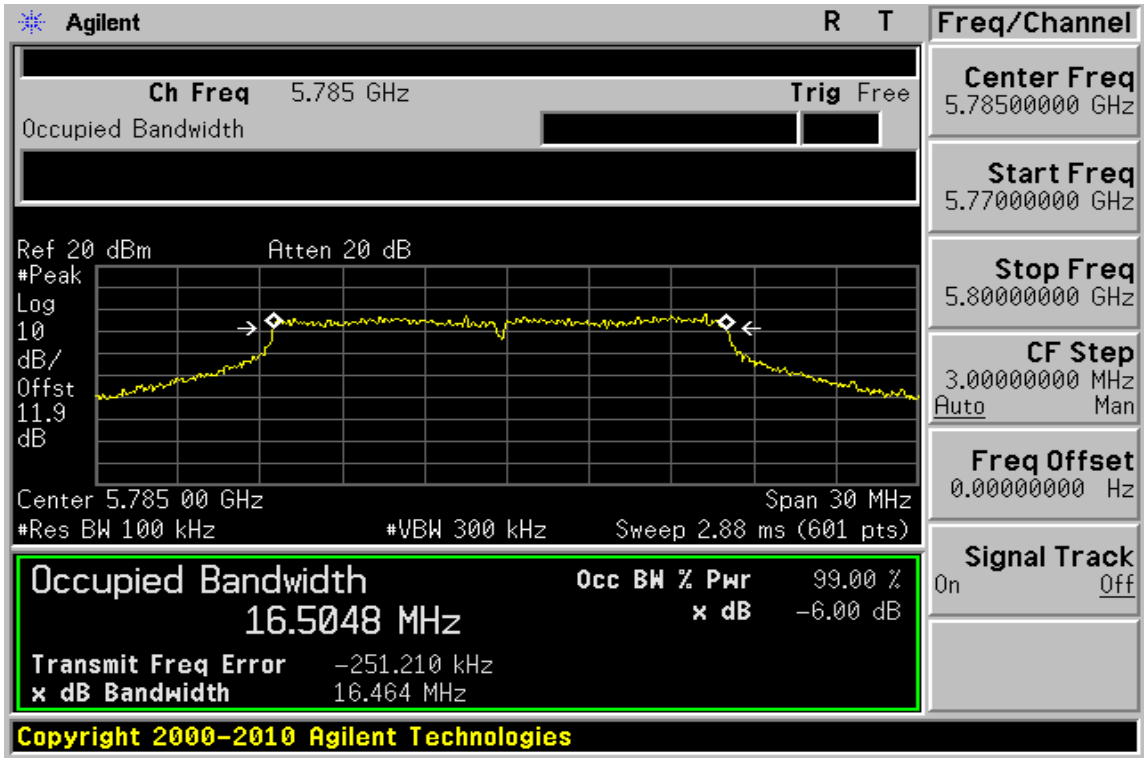
26dB Band Width Test Data CH-High (5670 MHz)



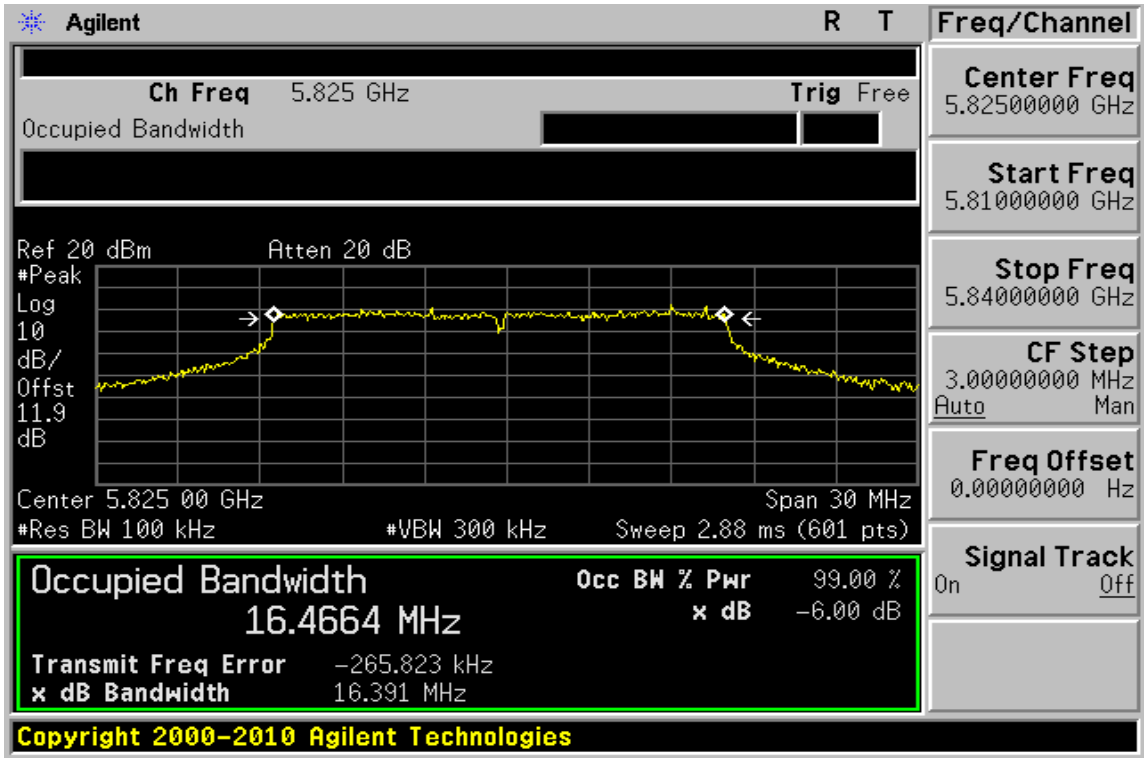
802.11a, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



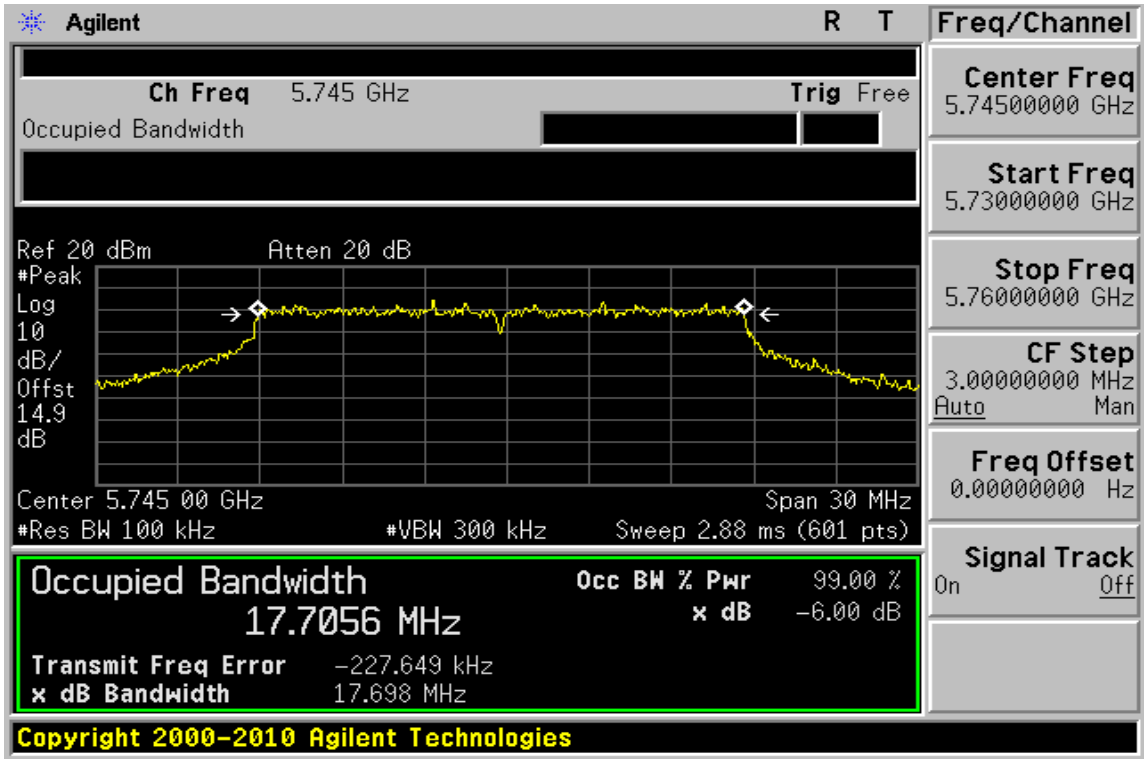
6dB Band Width Test Data CH-Mid (5785 MHz)



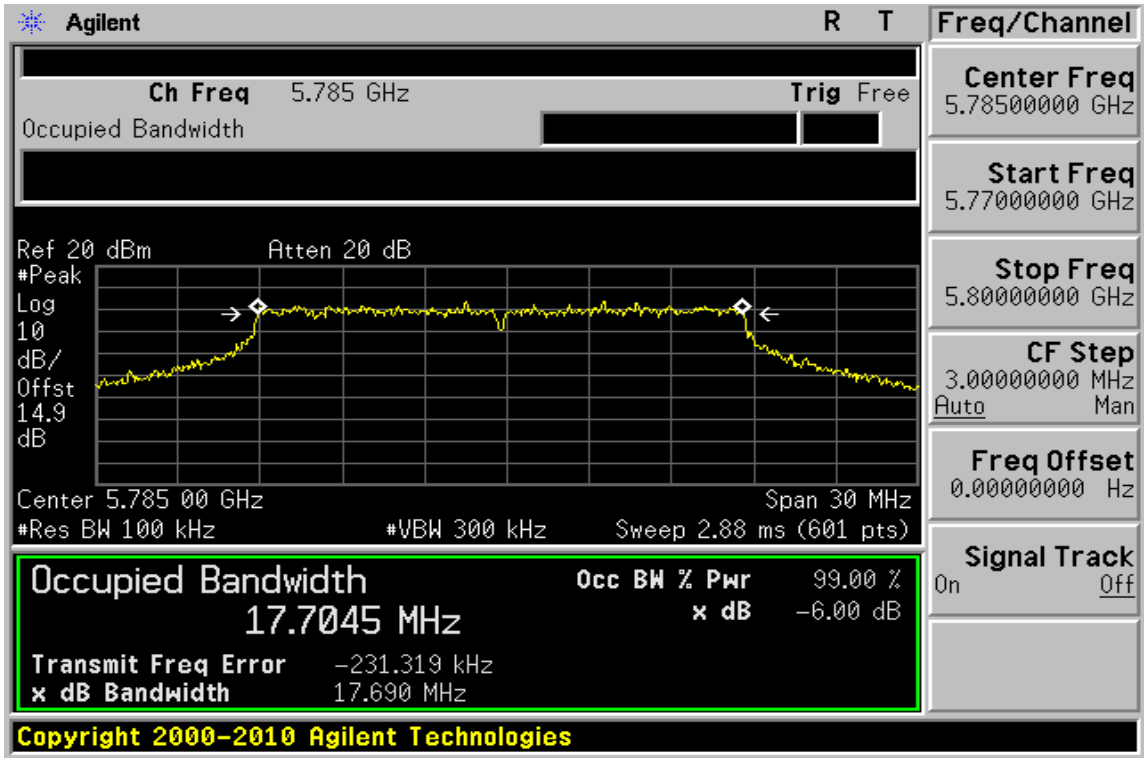
6dB Band Width Test Data CH-High (5825 MHz)



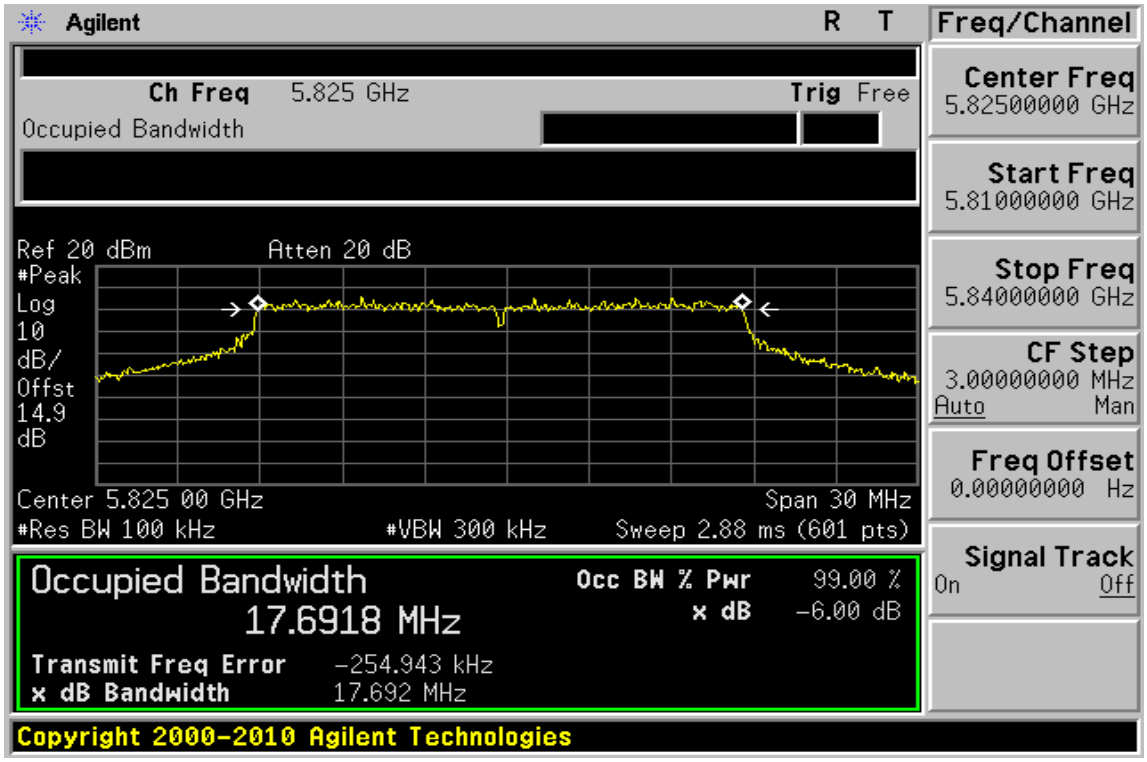
802.11n HT20, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



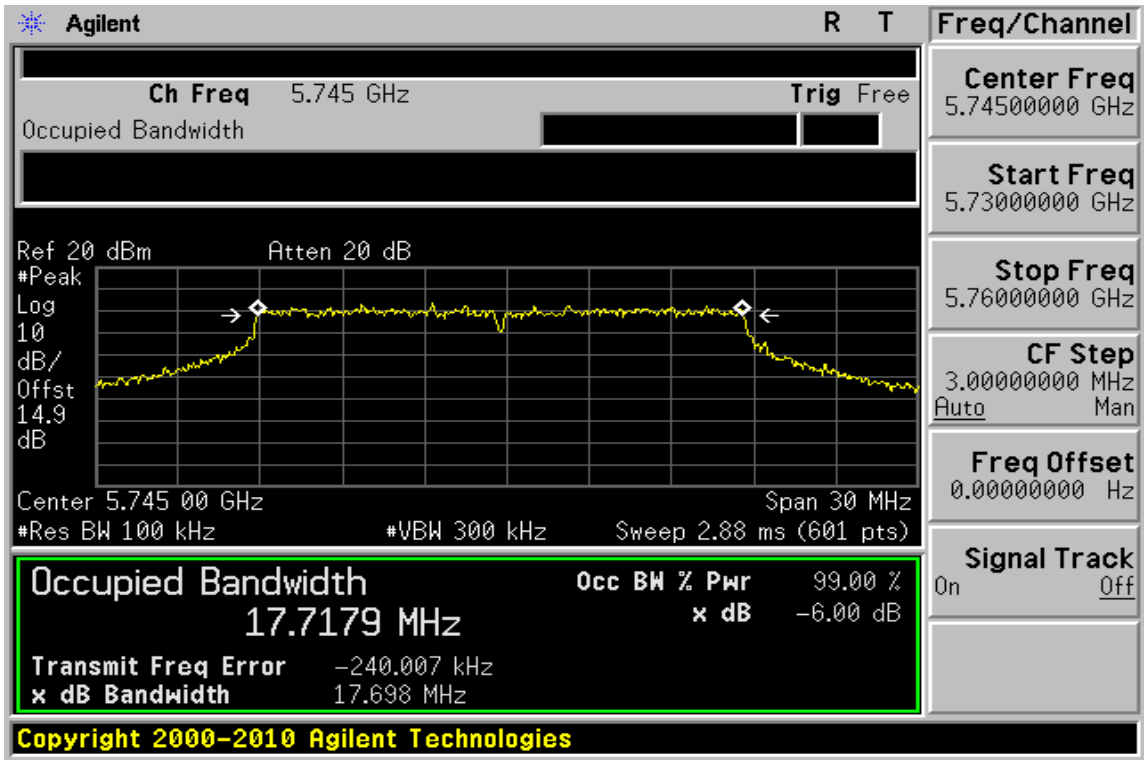
6dB Band Width Test Data CH-Mid (5785 MHz)



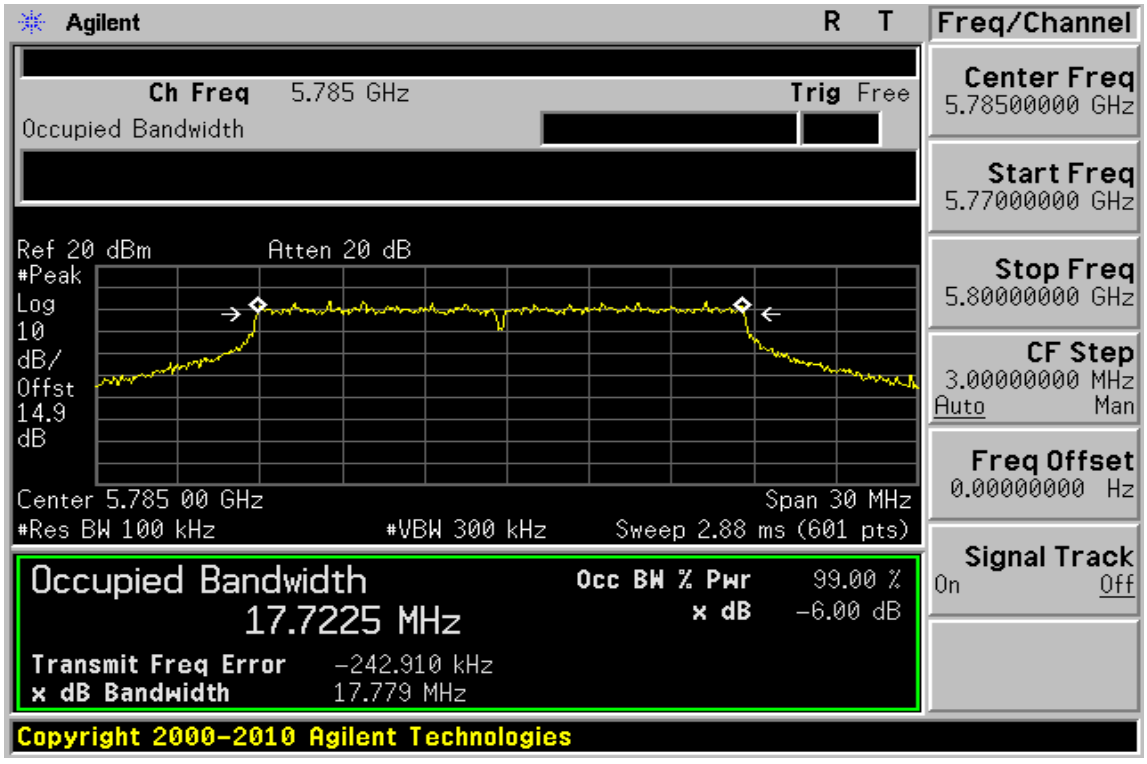
6dB Band Width Test Data CH-High (5825 MHz)



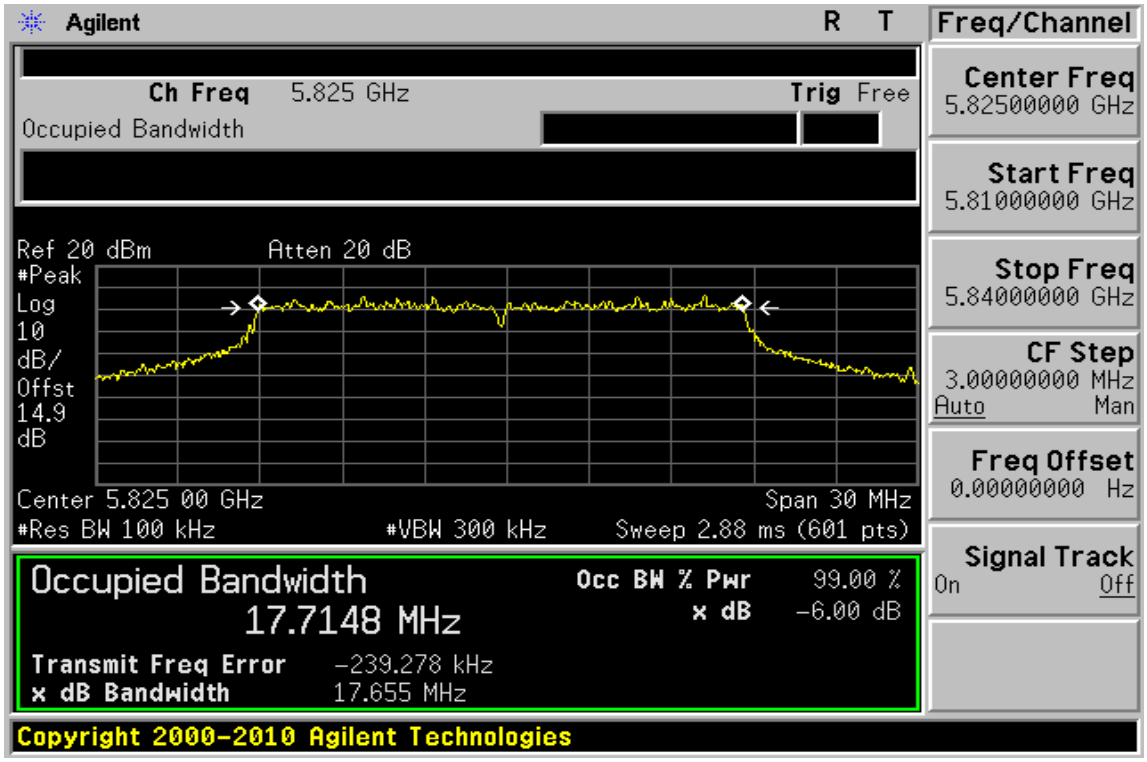
802.11n HT20, 5725~5850 MHz (Aux)
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)

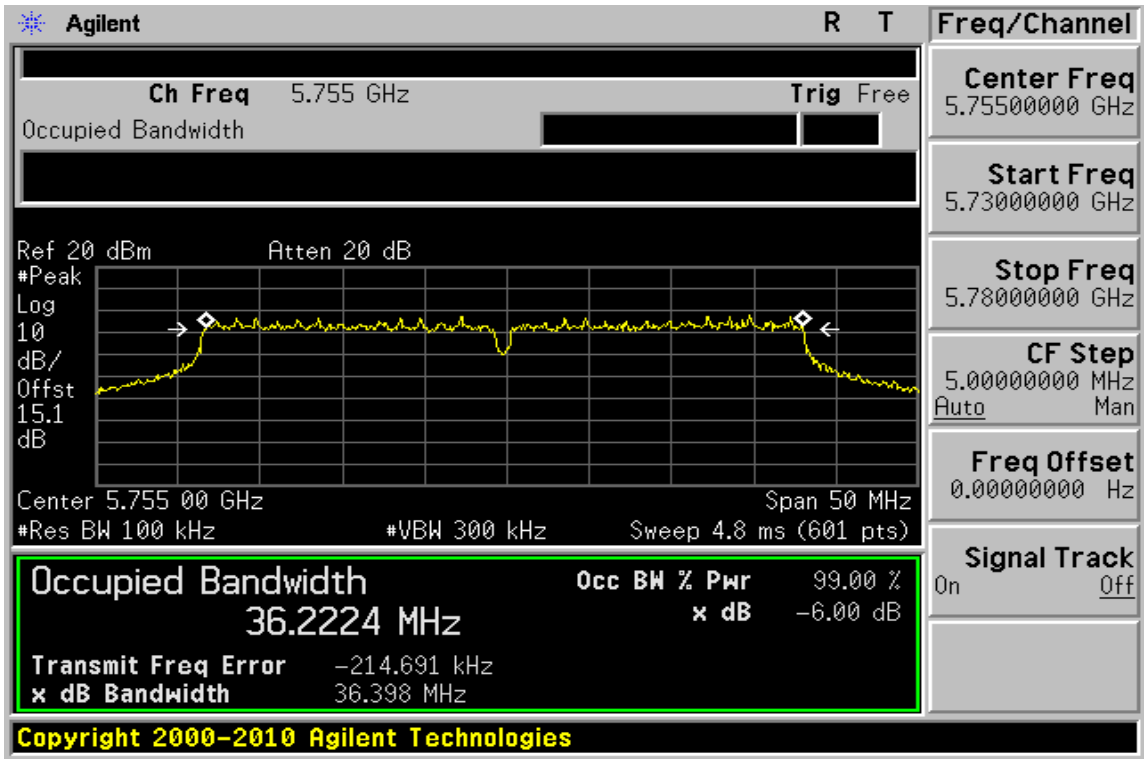


6dB Band Width Test Data CH-High (5825 MHz)

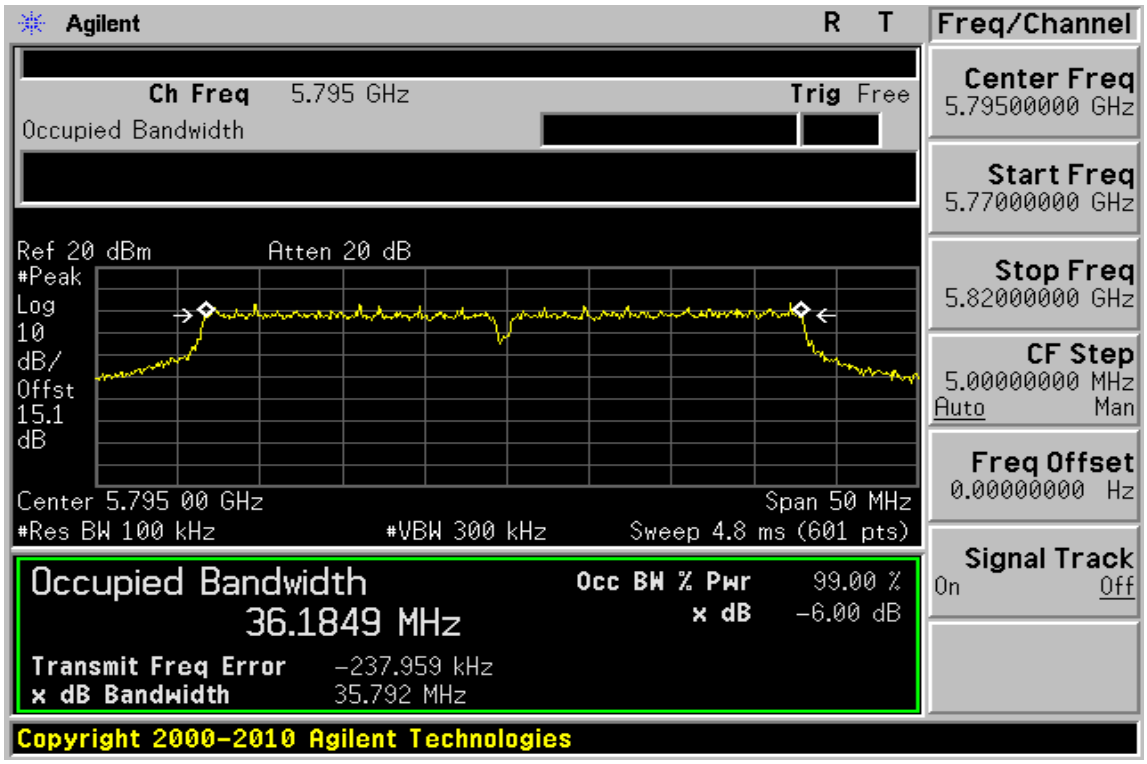


802.11n HT40, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5755 MHz)

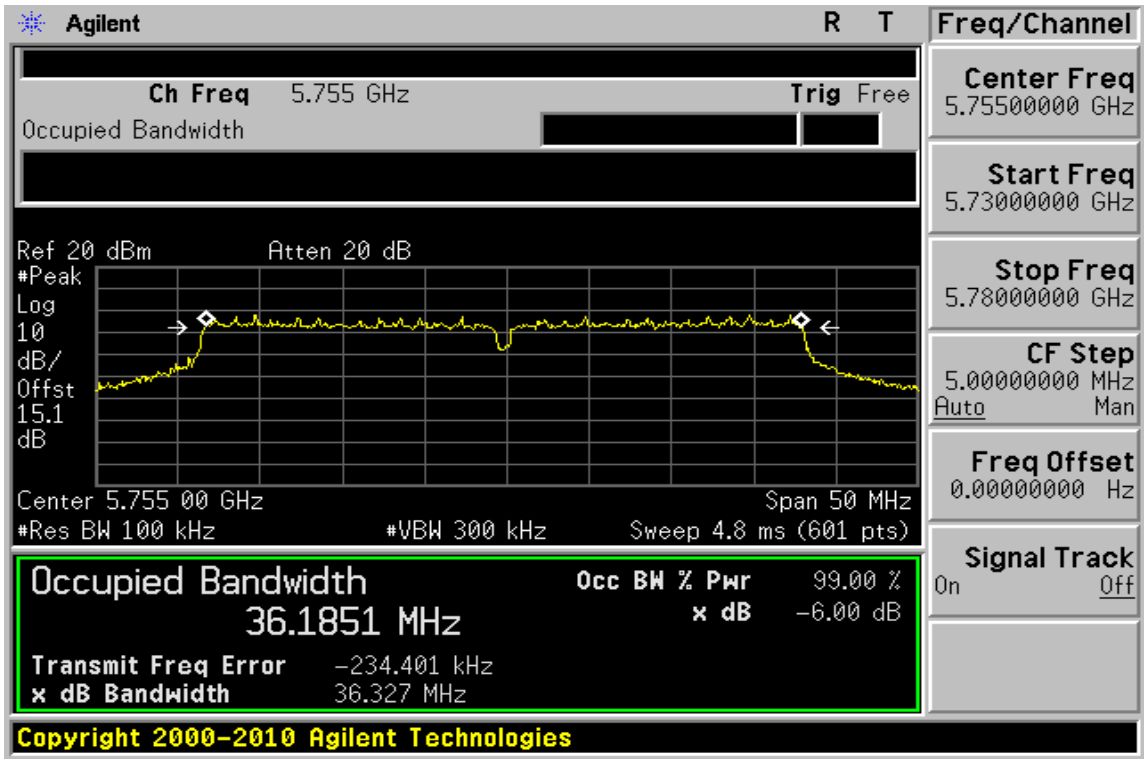


6dB Band Width Test Data CH-High (5795 MHz)

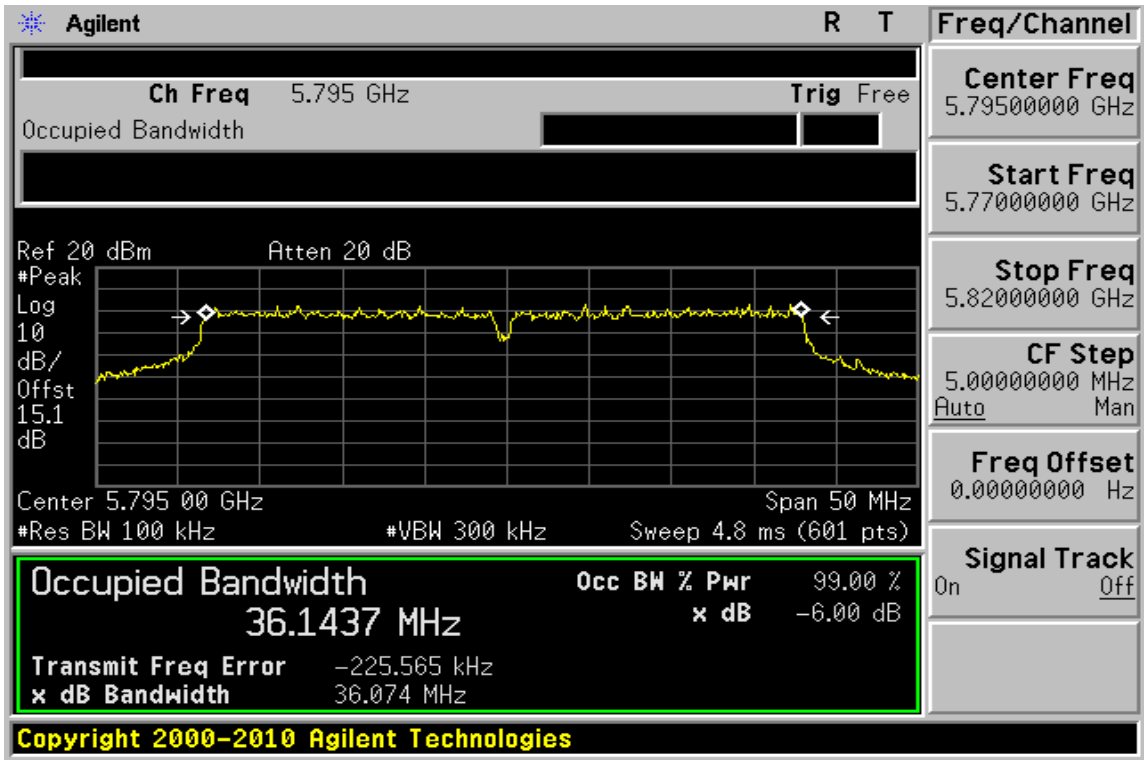


802.11n HT40, 5725~5850 MHz (Aux)

6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-High (5795 MHz)



9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	Mobile and portable clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

The antenna gain is granter than 6 dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 5.5+3.01=8.51dBi

Limit: 23.98dBm – (8.51– 6 dBi) = 21.47dBm

Therefore the limit needs to reduce for the U-NII-1, U-NII-2A and U-NII-2C band.

Effective Legacy Gain (dBi) = 5.5+3.01=8.51dBi

Limit: 30dBm – (8.51– 6 dBi) = 27.49dBm

Therefore the limit needs to reduce for the U-NII-3 Band.

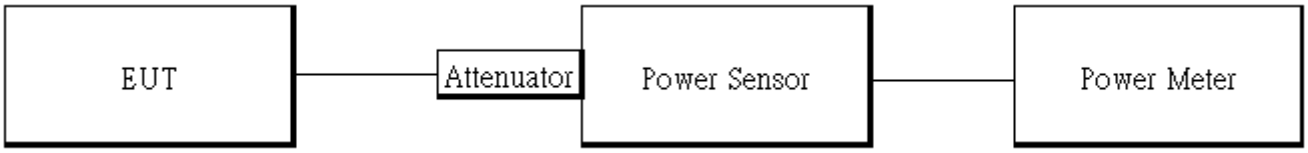
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

Refer to section 8.3 for details.

9.4 Test Set-up



9.5 Measurement Result

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	**15.14**	**32.659**	23.98	PASS
44	5220	14.61	28.907	23.98	PASS
48	5240	14.57	28.642	23.98	PASS
52	5260	**14.60**	**28.840**	23.98 or 11+10log(B) =24.65	PASS
60	5300	14.27	26.730	23.98 or 11+10log(B) =24.65	PASS
64	5320	14.26	**26.669**	23.98 or 11+10log(B) =24.65	PASS
100	5500	**15.32**	**34.041**	23.98 or 11+10log(B) =24.65	PASS
116	5580	14.90	30.903	23.98 or 11+10log(B) =24.65	PASS
140	5700	13.13	20.559	23.98 or 11+10log(B) =24.65	PASS
149	5745	11.75	14.962	30	PASS
157	5785	12.10	16.218	30	PASS
165	5825	**14.04**	**25.351**	30	PASS

802.11n_HT20 MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	**10.57**	**10.44**	**13.52**	**22.469**	21.47	PASS
44	5220	10.32	10.59	13.47	22.220	21.47	PASS
48	5240	10.22	10.51	13.38	21.766	21.47	PASS
52	5260	**13.57**	**13.54**	**16.57**	**45.345**	21.47 or 11+10log(B) =24.51	PASS
60	5300	13.39	13.51	16.46	44.266	21.47 or 11+10log(B) =24.45	PASS
64	5320	12.95	13.35	16.16	41.351	21.47 or 11+10log(B) =24.69	PASS
100	5500	**15.15**	**16.07**	**18.64**	**73.192**	21.47 or 11+10log(B) =24.57	PASS
116	5580	14.99	15.55	18.29	67.442	21.47or 11+10log(B) =24.60	PASS
140	5700	14.27	13.10	16.73	47.147	21.47 or 11+10log(B) =24.70	PASS
149	5745	12.82	11.41	15.18	32.978	27.49	PASS
157	5785	13.11	11.65	15.45	35.086	27.49	PASS
165	5825	**14.27**	**13.74**	**17.02**	**50.389**	27.49	PASS

802.11n_HT40 MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	**11.03**	11.28	**14.17**	**26.104**	21.47	PASS
46	5230	10.81	**11.30**	14.07	25.540	21.47	PASS
54	5270	10.94	11.13	14.05	25.388	21.47 or 11+10log(B) =27.77	PASS
62	5310	**11.17**	**11.48**	**14.34**	**27.152**	21.47 or 11+10log(B) =27.82	PASS
102	5510	11.26	12.12	14.72	29.659	21.47 or 11+10log(B) =27.78	PASS
110	5550	11.80	12.53	15.19	33.042	21.47 or 11+10log(B) =27.74	PASS
134	5670	**15.24**	**14.41**	**17.86**	**61.025**	21.47 or 11+10log(B) =27.79	PASS
151	5745	9.33	7.55	11.54	14.259	27.49	PASS

10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: The antenna gain is granter than 6 dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 5.5+3.01=8.51dBi

Limit: 11 dBm – (8.51– 6 dBi) = 8.49dBm

Therefore the limit needs to reduce for the U-NII-1, U-NII-2A and U-NII-2C band.

Effective Legacy Gain (dBi) = 5.5+3.01=8.51dBi

Limit: 30dBm – (8.51– 6 dBi) = 27.49dBm

Therefore the limit needs to reduce for the U-NII-3 band.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:

   Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

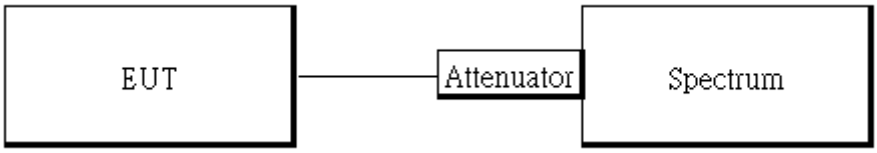
   For U-NII-3 Band:

   Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. User the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

10.4 Test Set-up



10.5 Measurement Result

802.11a

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.87	11.00	-9.14
5220	1.43	11.00	-9.57
5240	1.78	11.00	-9.22
5260	1.64	11.00	-9.36
5300	0.73	11.00	-10.27
5320	1.50	11.00	-9.50
5500	1.44	11.00	-9.56
5580	1.30	11.00	-9.70
5700	2.03	11.00	-8.97
5745	4.74	30.00	-25.26
5785	4.97	30.00	-25.03
5825	8.32	30.00	-21.68

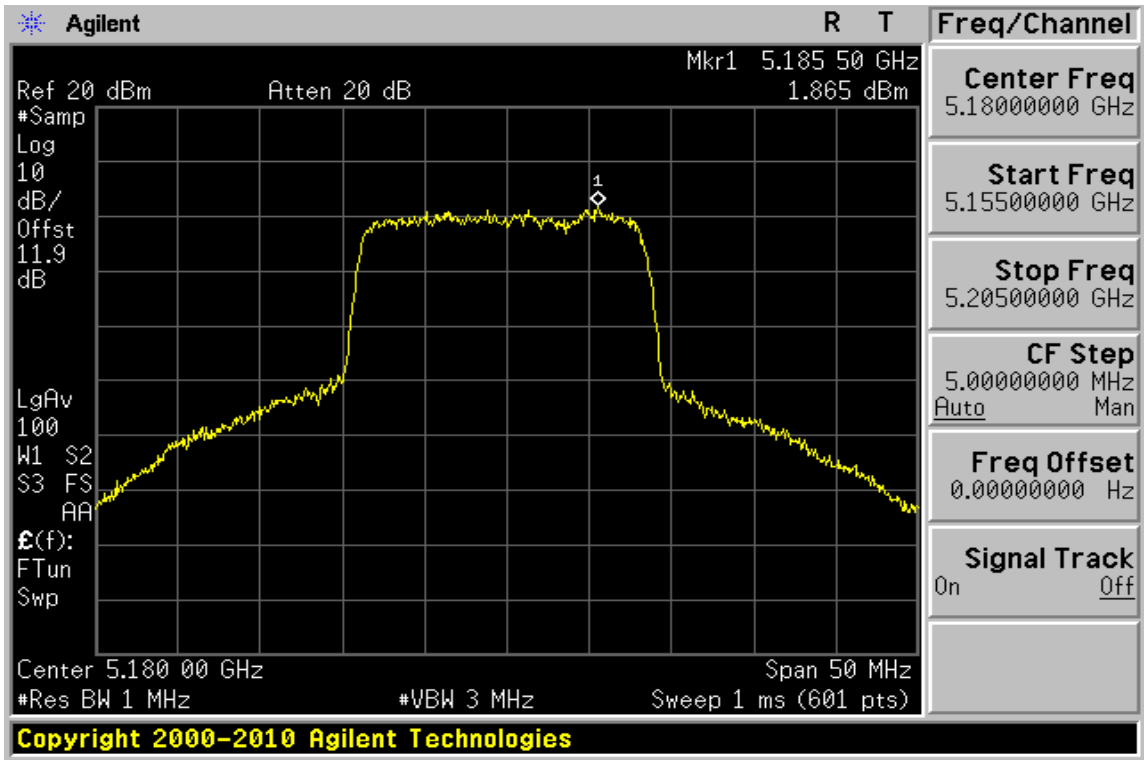
802.11n HT20

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-0.93	8.49	-9.42
5220	-0.54	8.49	-9.03
5240	-0.74	8.49	-9.23
5260	-0.25	8.49	-8.74
5300	-1.02	8.49	-9.51
5320	0.14	8.49	-8.35
5500	1.45	8.49	-7.04
5580	1.32	8.49	-7.17
5700	0.34	8.49	-8.15
5745	6.87	27.49	-20.62
5785	6.84	27.49	-20.65
5825	9.59	27.49	-17.90

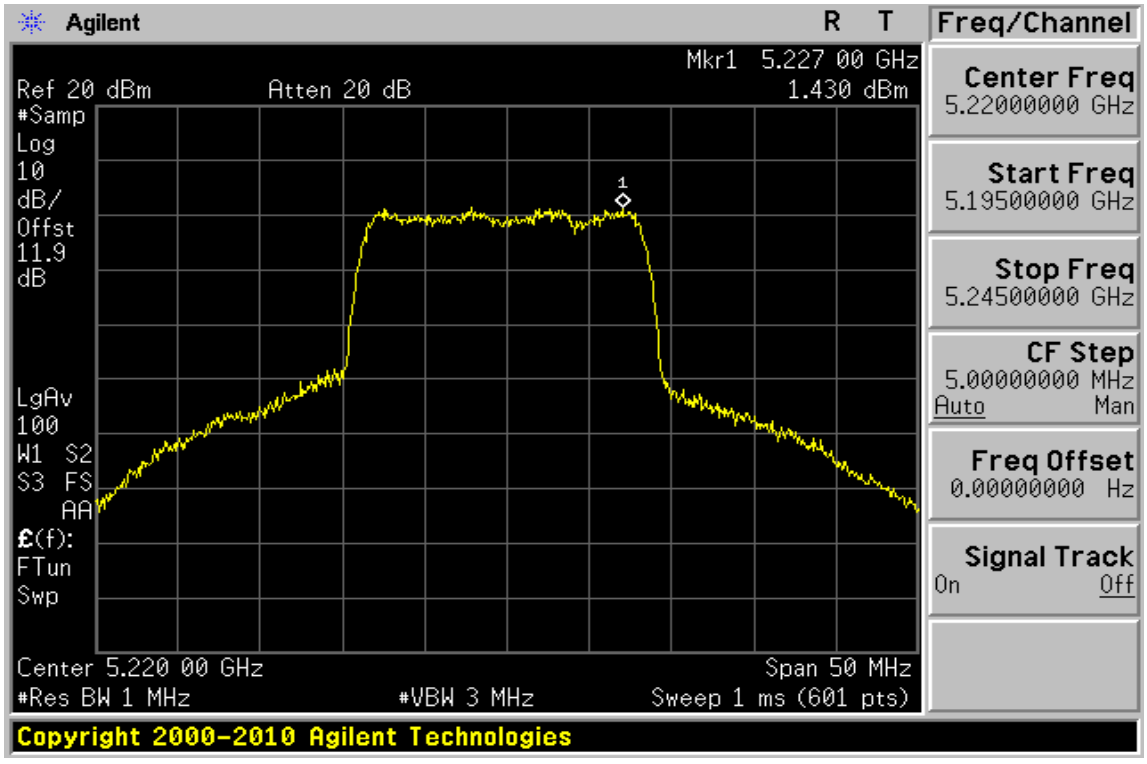
802.11n HT40

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-6.18	8.49	-14.67
5230	-6.47	8.49	-14.96
5270	-7.24	8.49	-15.73
5310	-4.94	8.49	-13.43
5510	-5.95	8.49	-14.44
5550	-5.80	8.49	-14.29
5670	-2.45	8.49	-10.94
5755	-0.47	27.49	-27.96
5795	5.99	27.49	-21.50

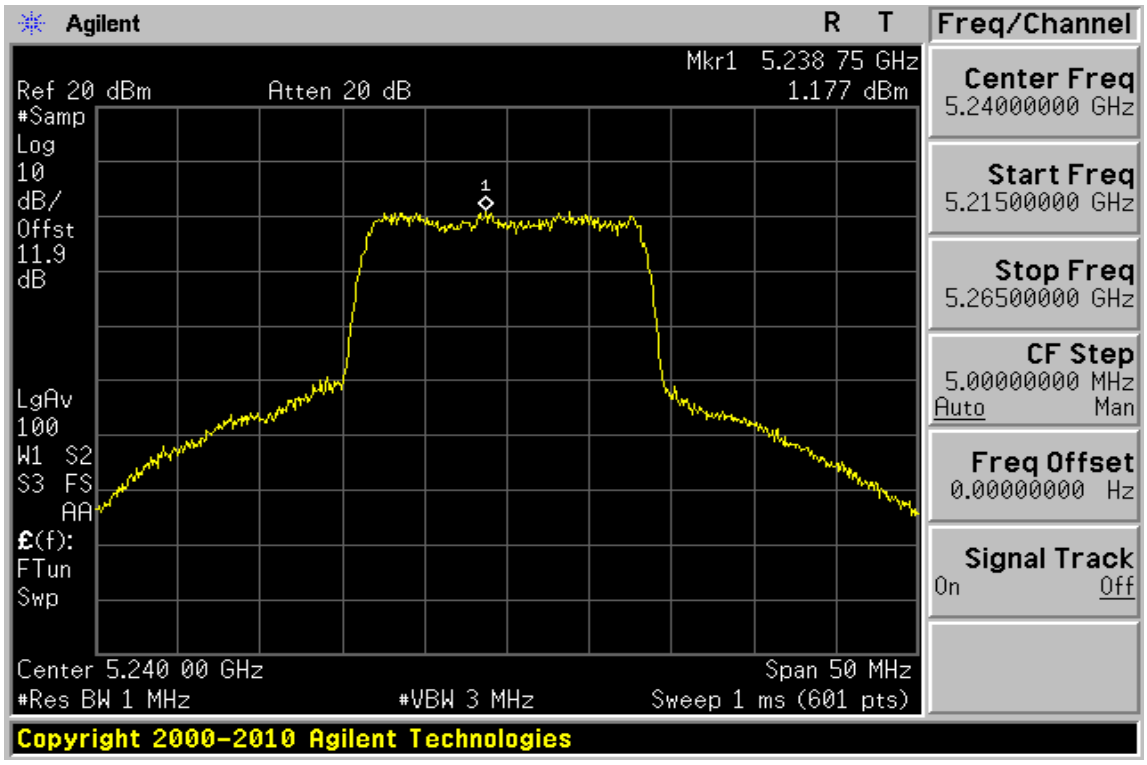
802.11a, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)

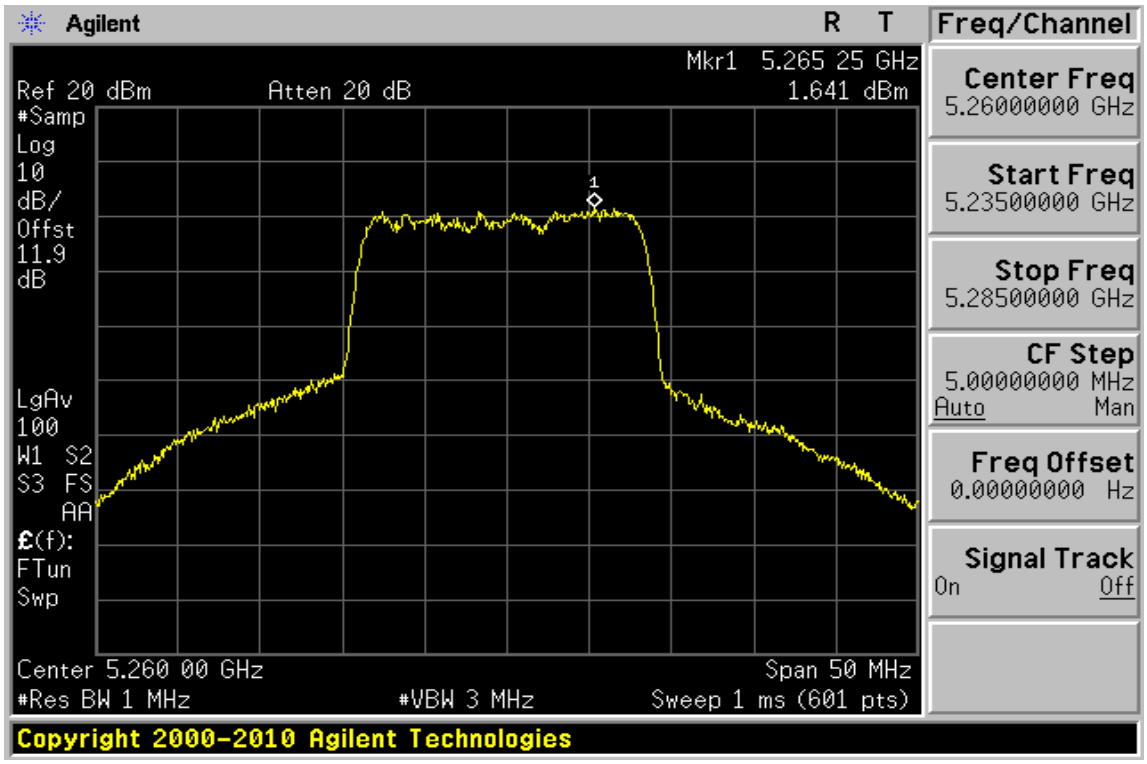


Peak Power Spectral Density Data Plot (CH High 5240 MHz)

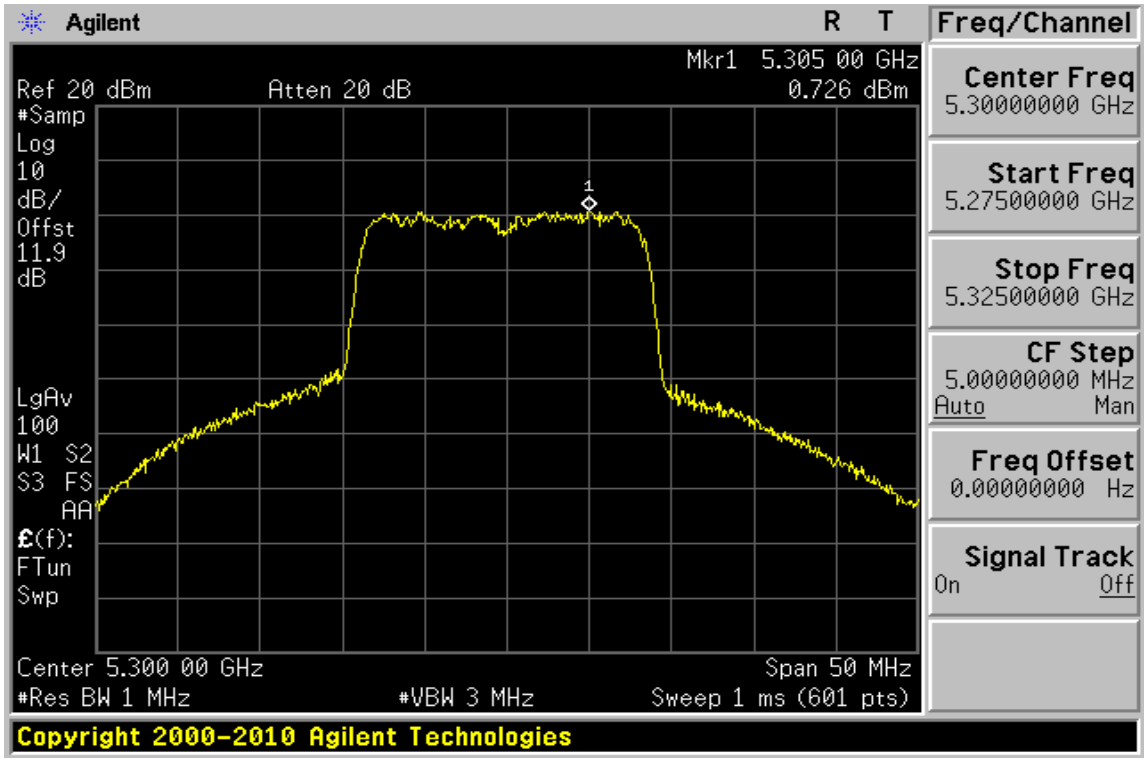


802.11a, 5250~5350 MHz

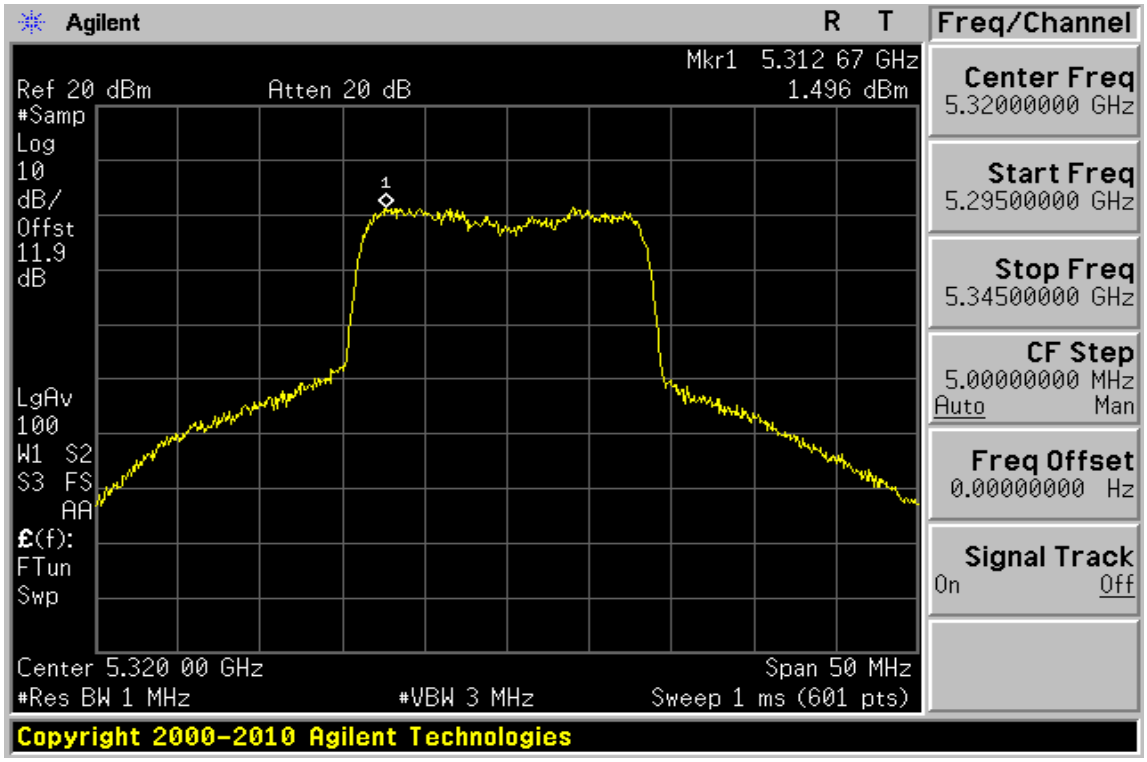
Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)

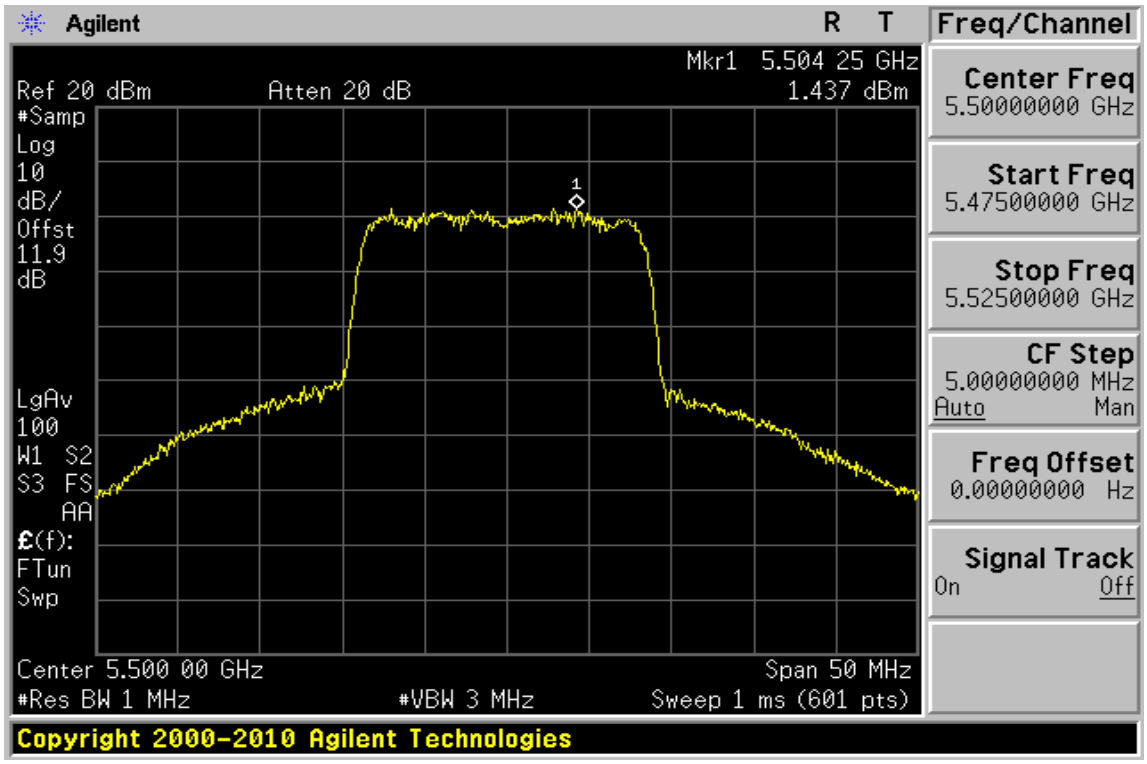


Peak Power Spectral Density Data Plot (CH High 5320 MHz)

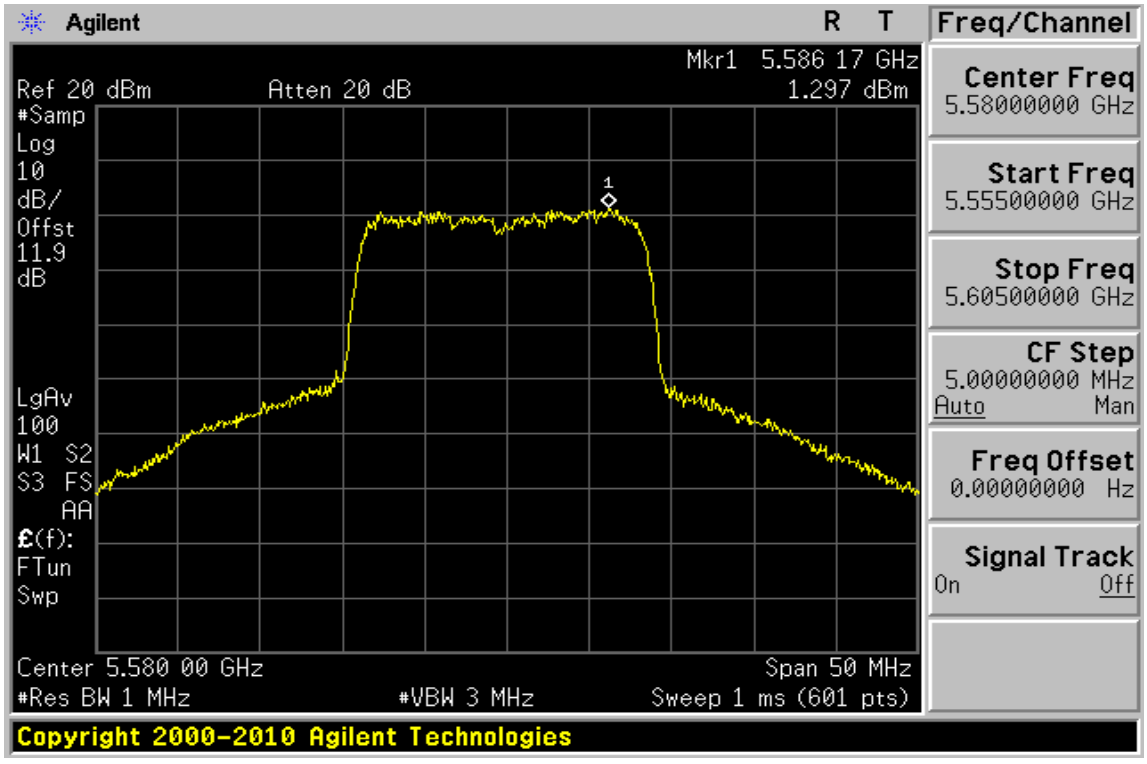


802.11a, 5470~5725 MHz

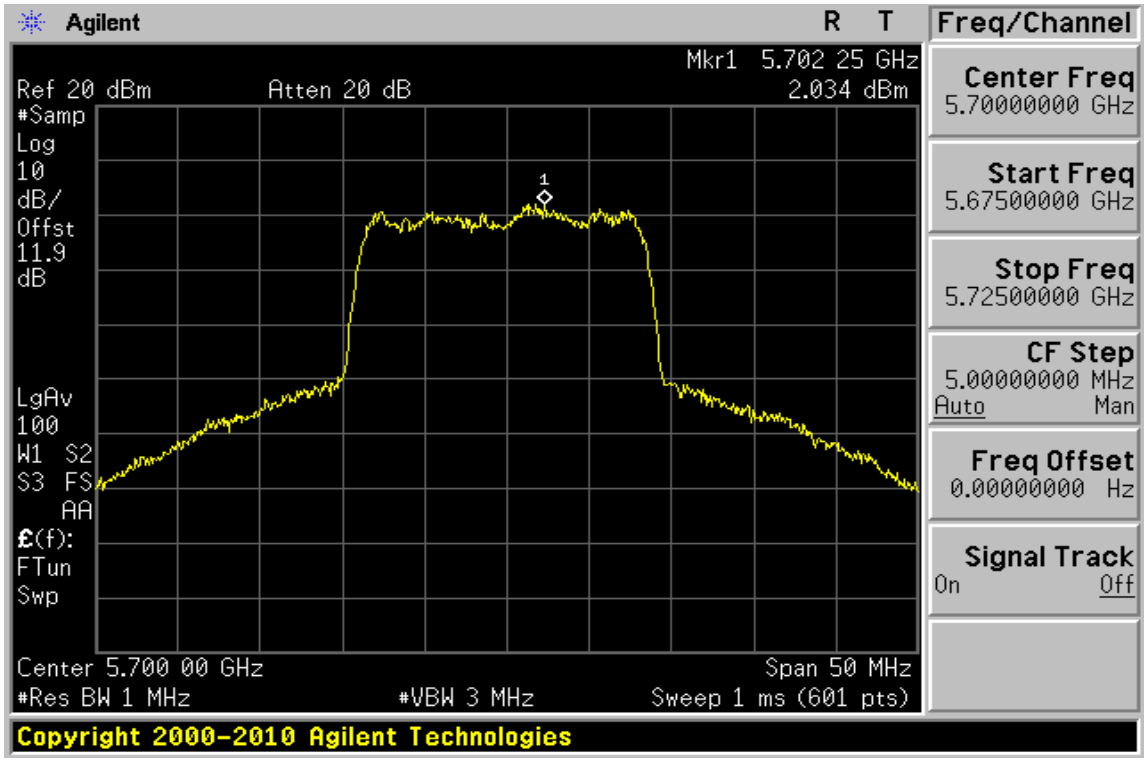
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



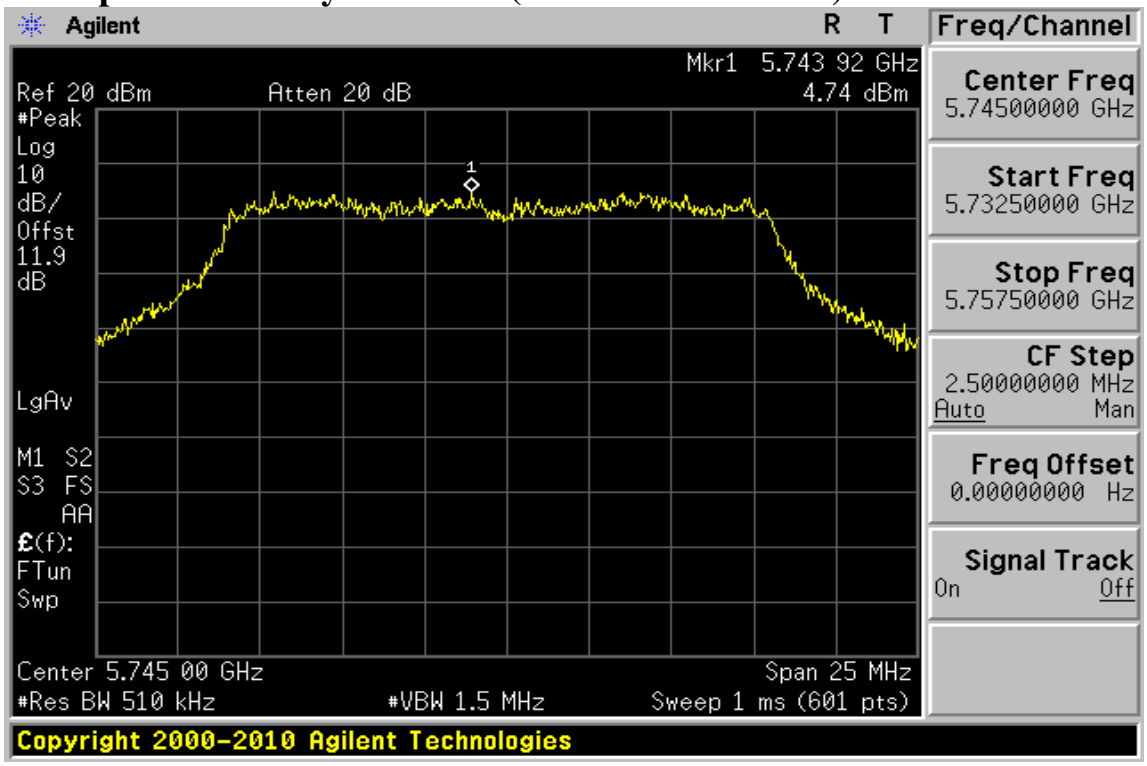
Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



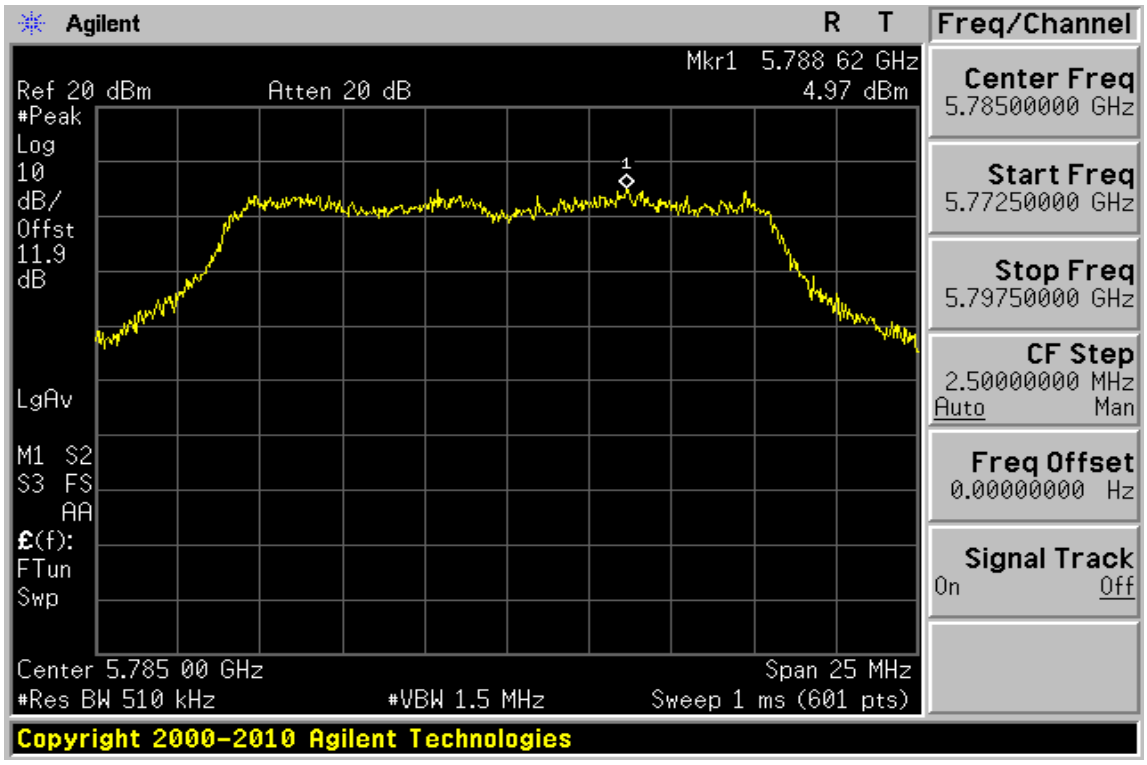
Peak Power Spectral Density Data Plot (CH High 5700 MHz)



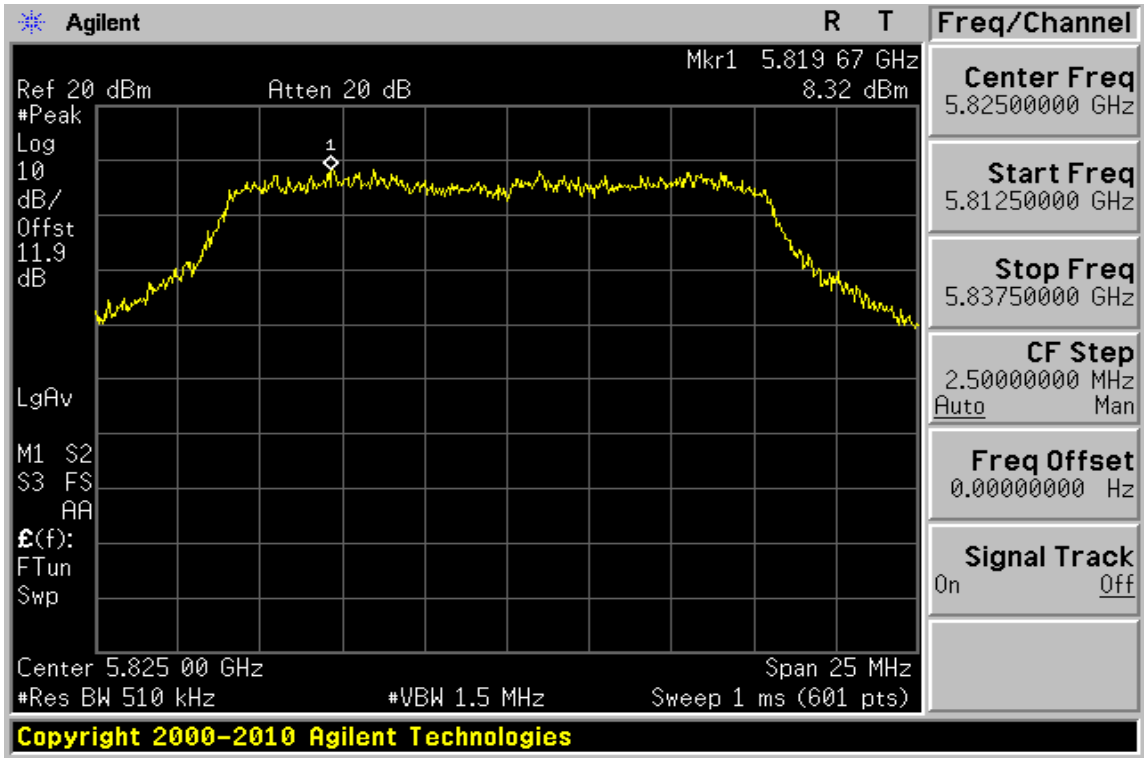
802.11a, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)

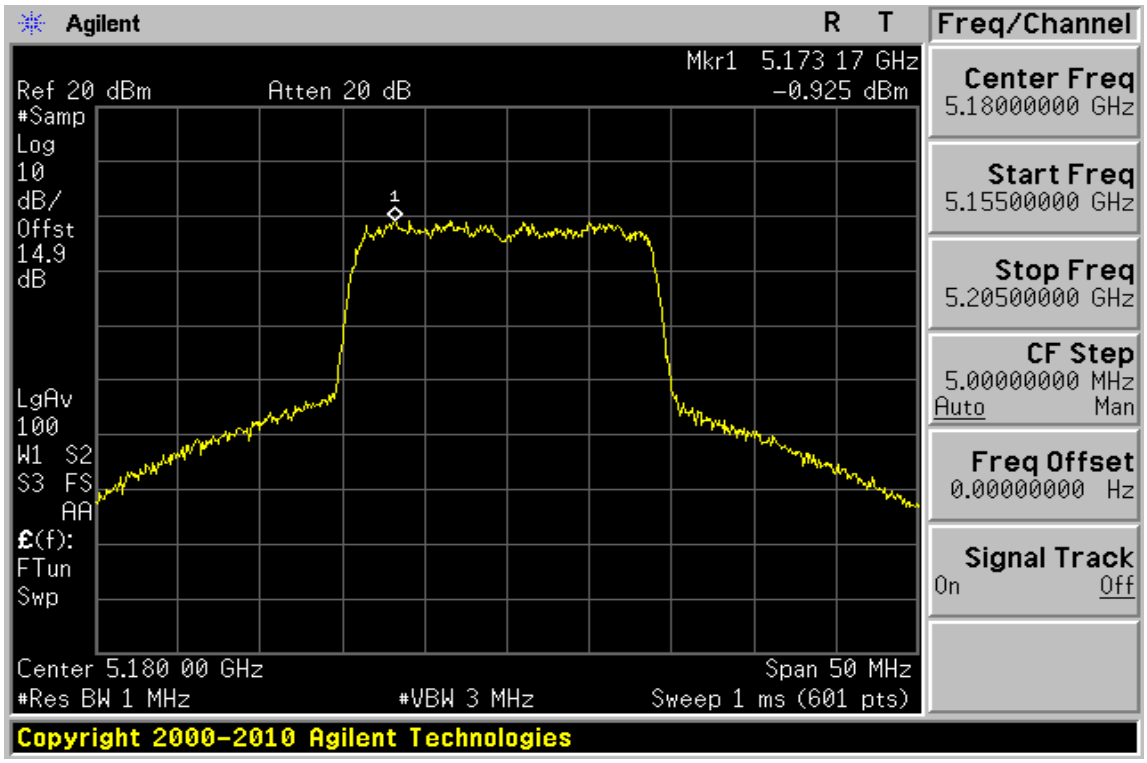


Peak Power Spectral Density Data Plot (CH High 5825 MHz)

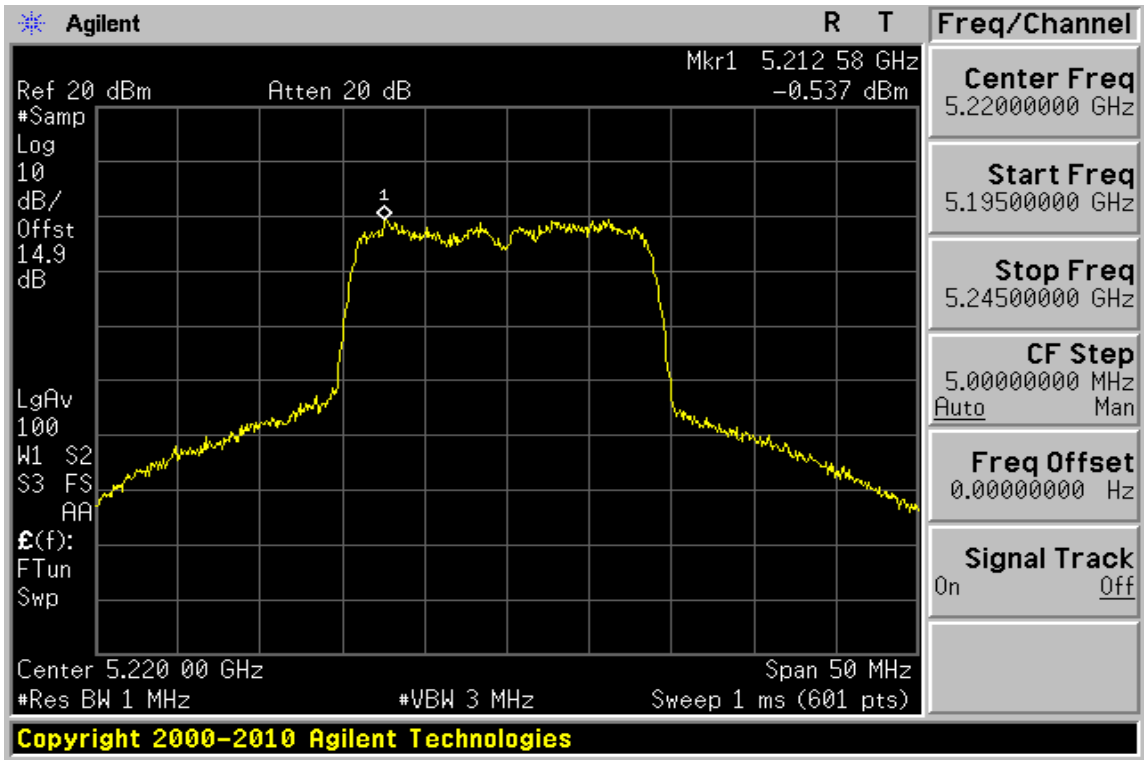


802.11n HT20, 5150~5250 MHz

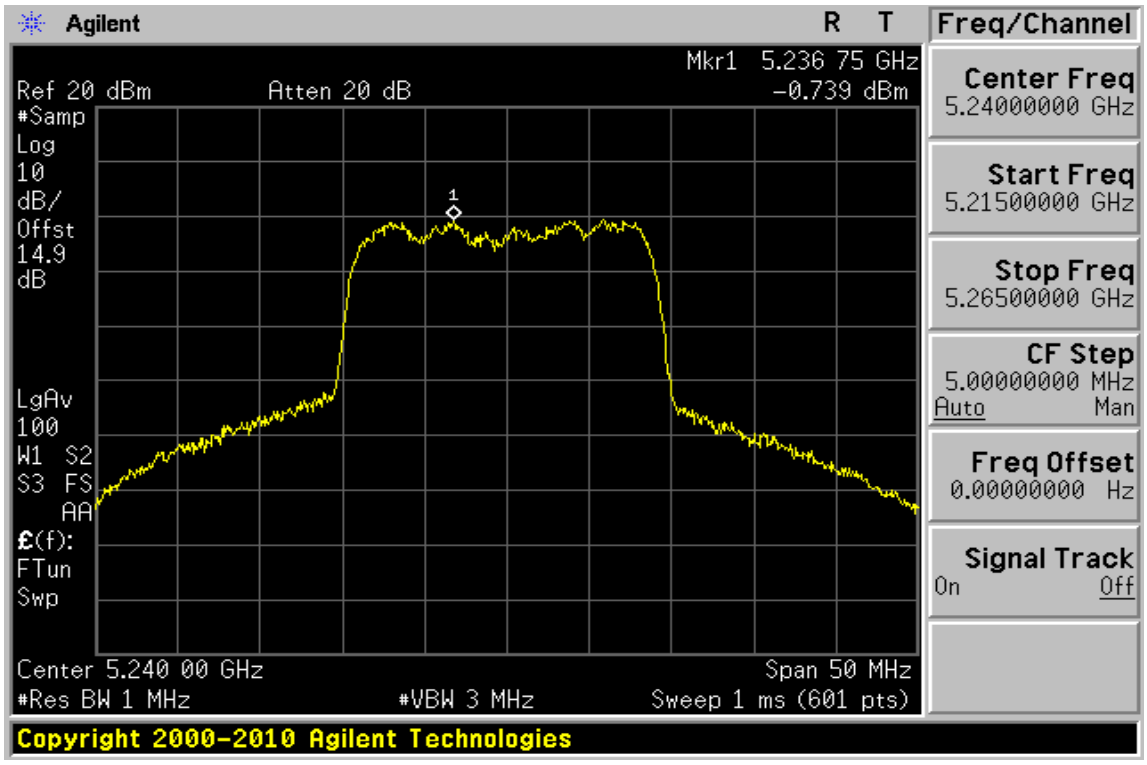
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



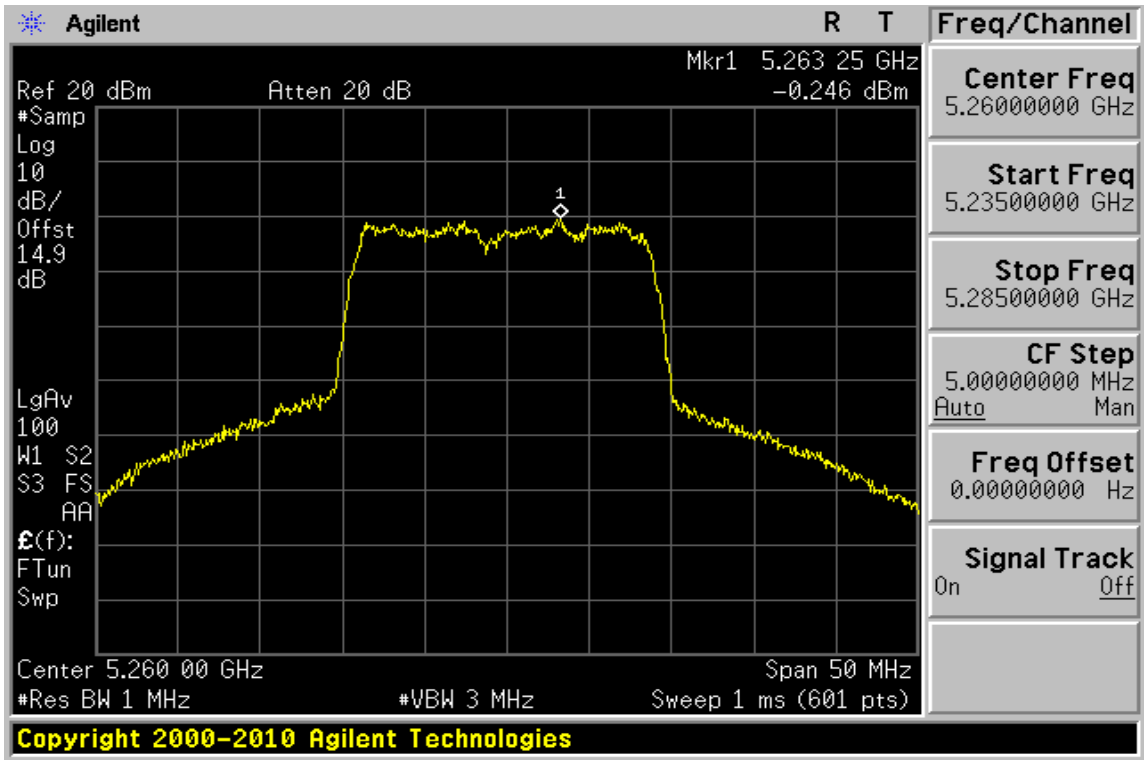
Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



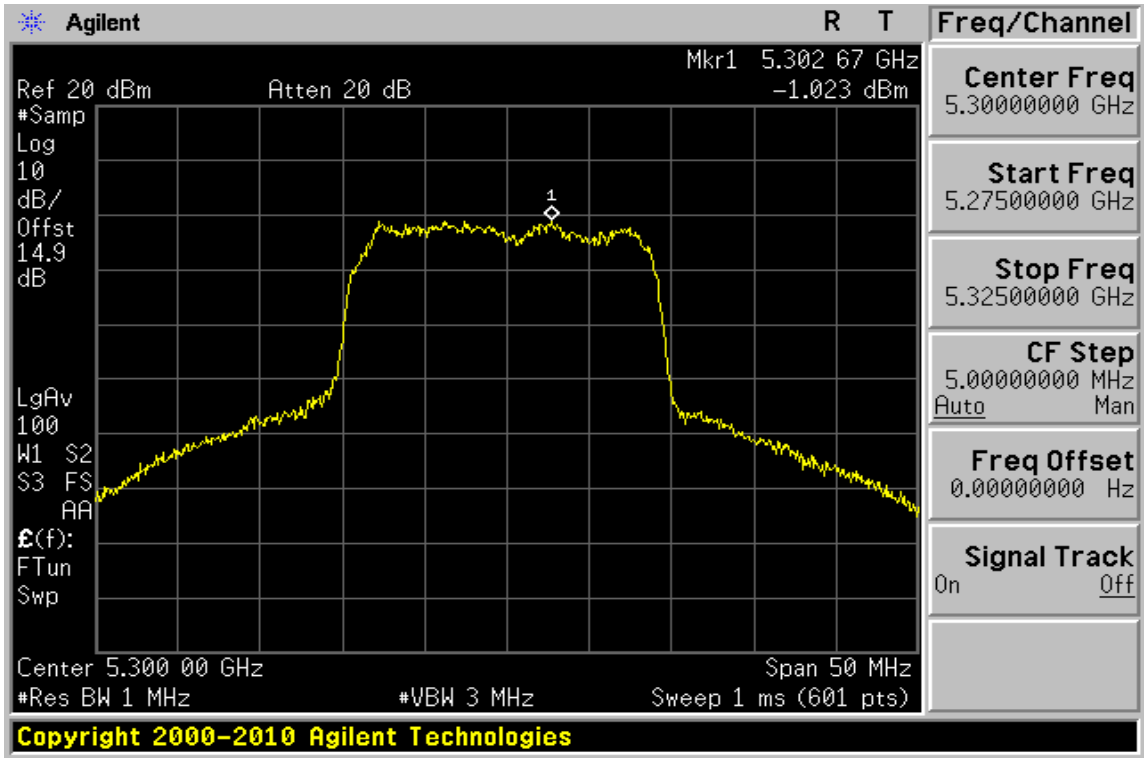
Peak Power Spectral Density Data Plot (CH High 5240 MHz)



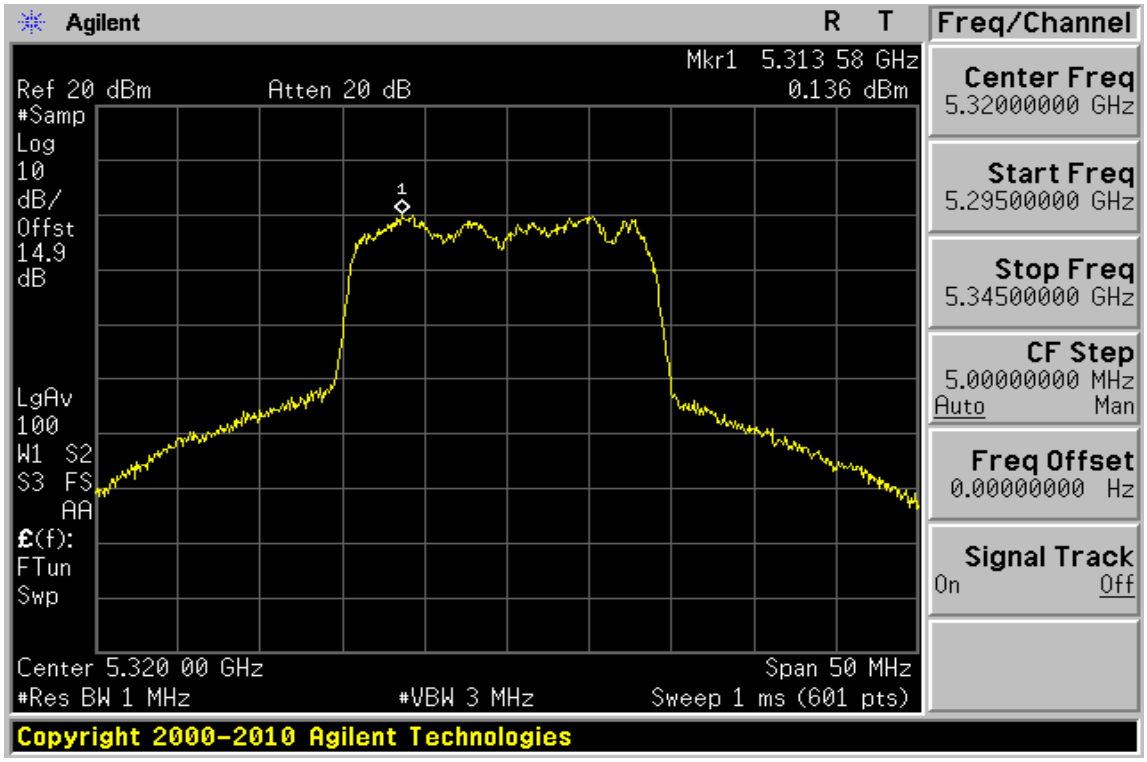
802.11n HT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)

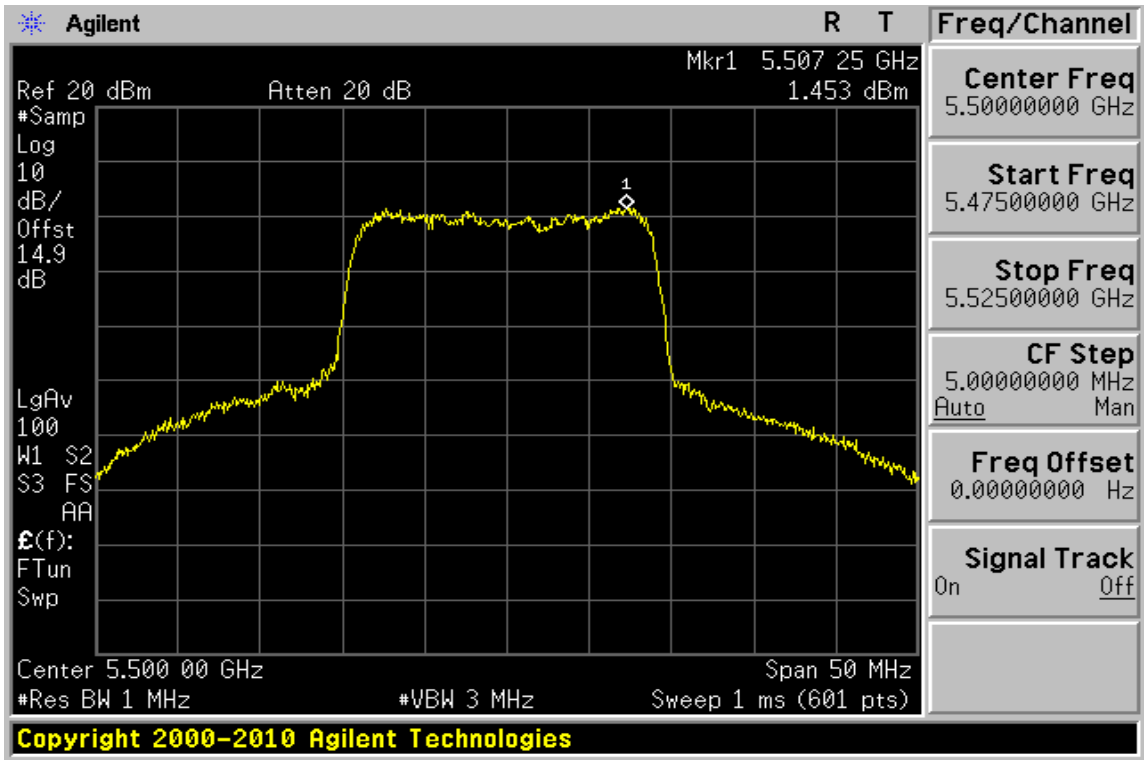


Peak Power Spectral Density Data Plot (CH High 5320 MHz)

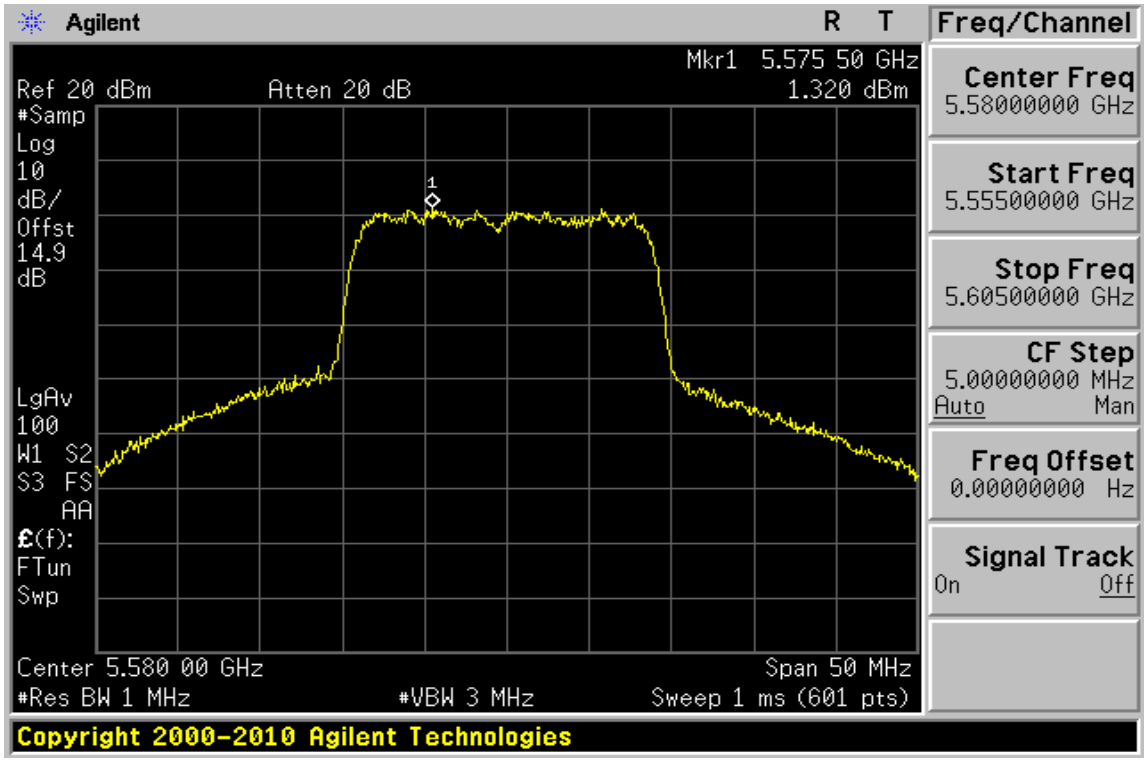


802.11n HT20, 5470~5725 MHz

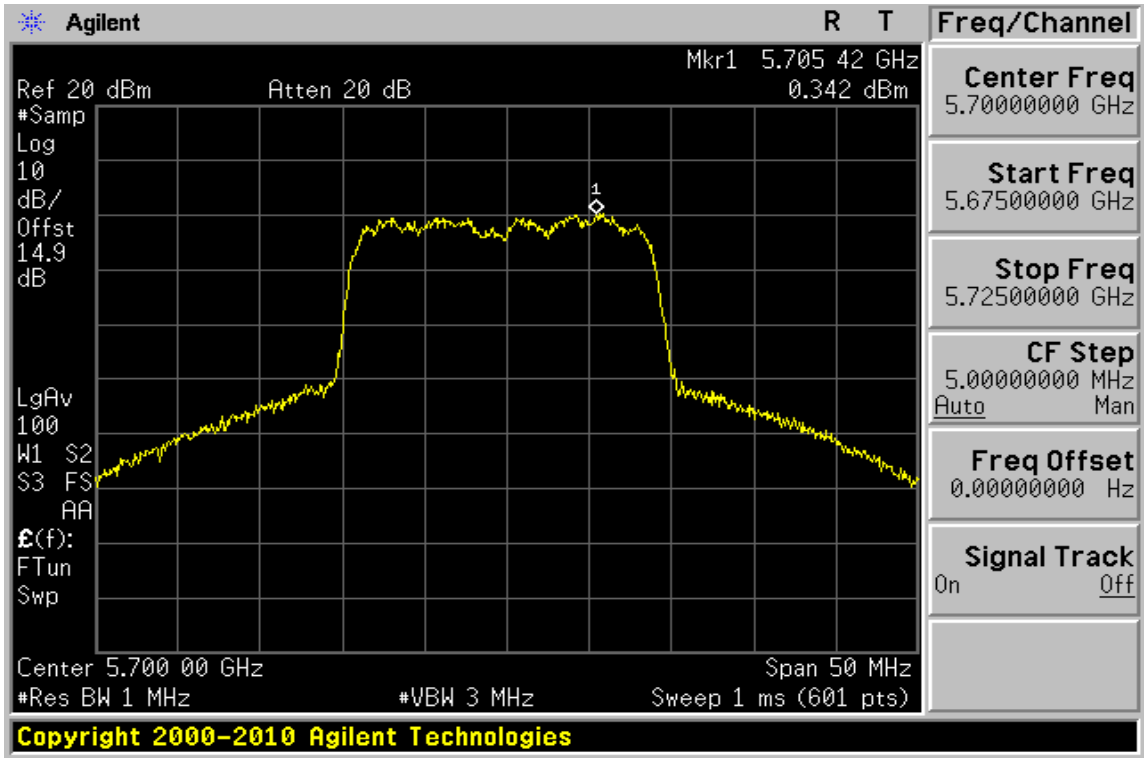
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



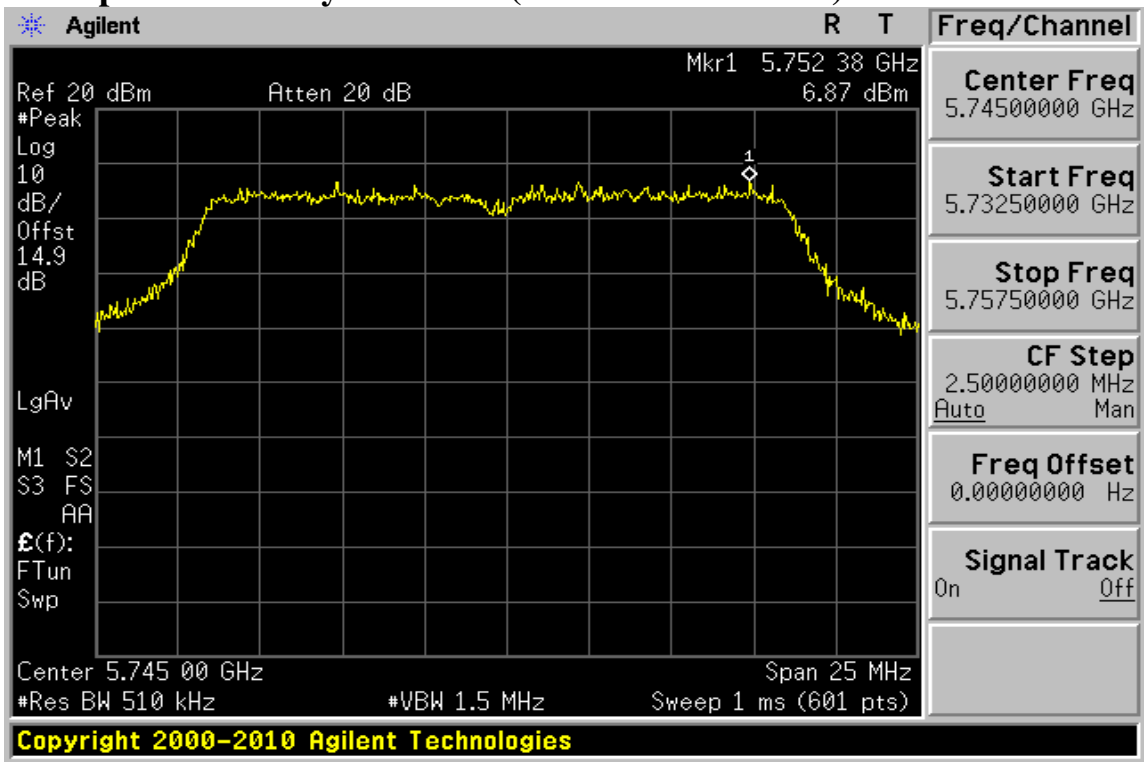
Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



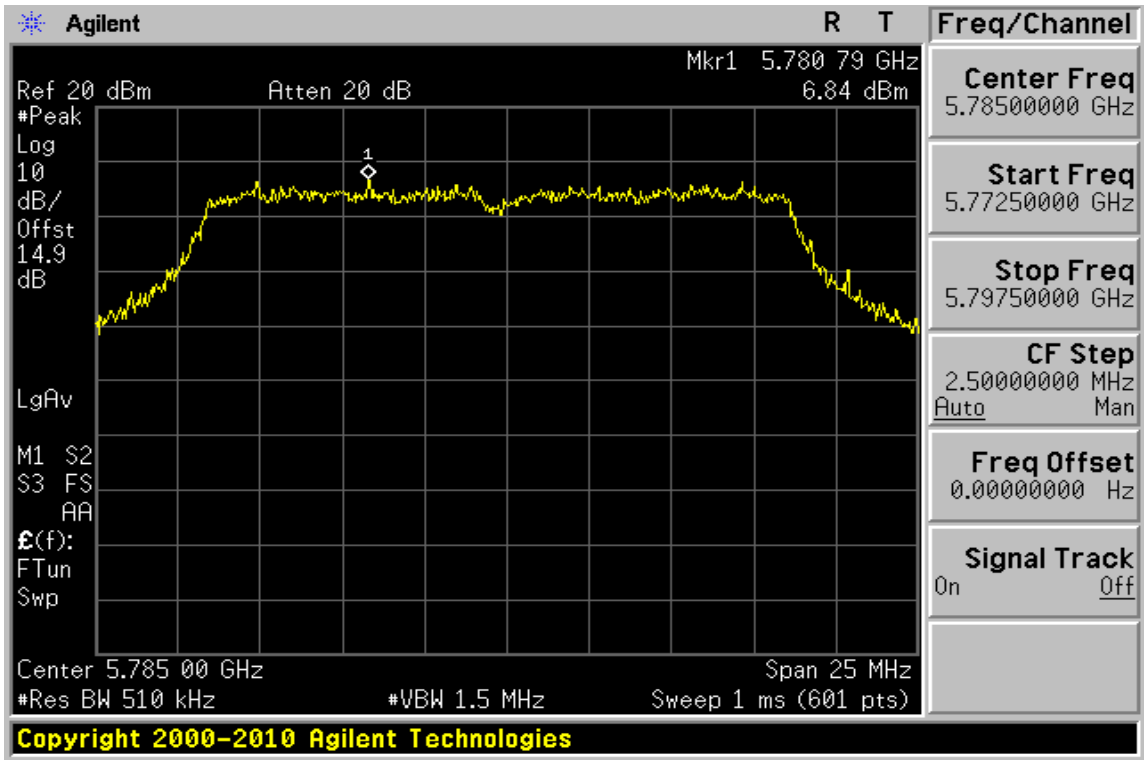
Peak Power Spectral Density Data Plot (CH High 5700 MHz)



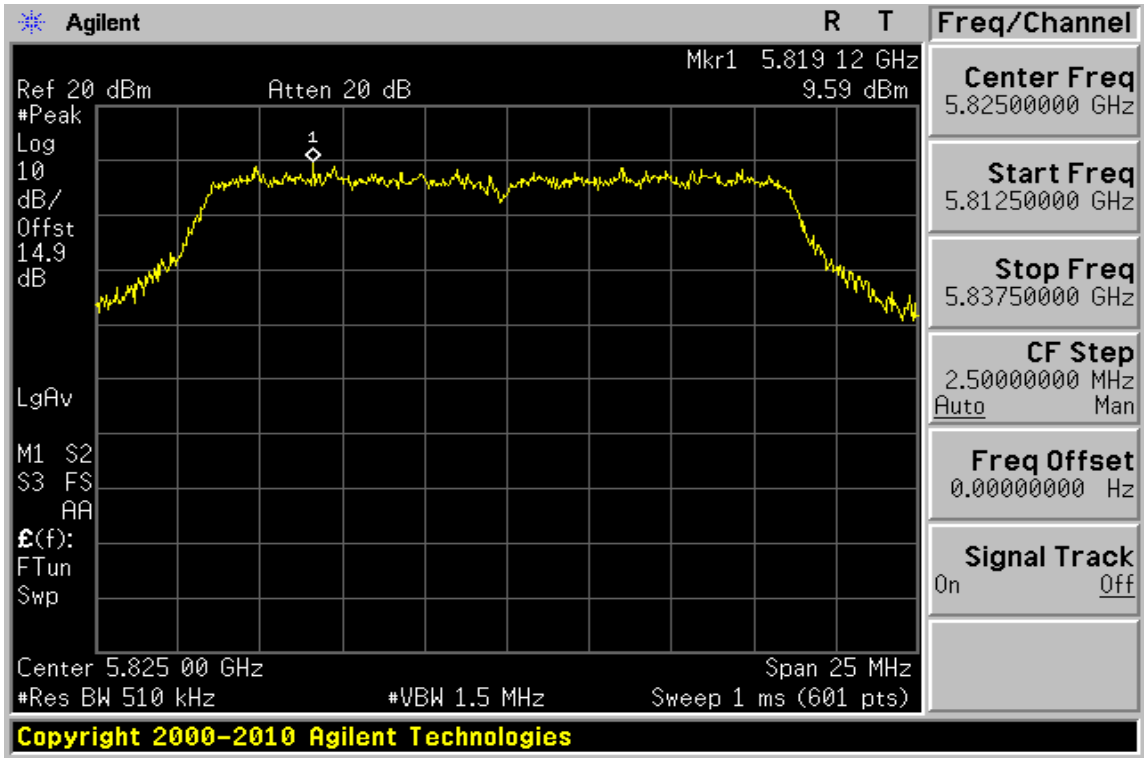
802.11n HT20, 5725~5850 MHz
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



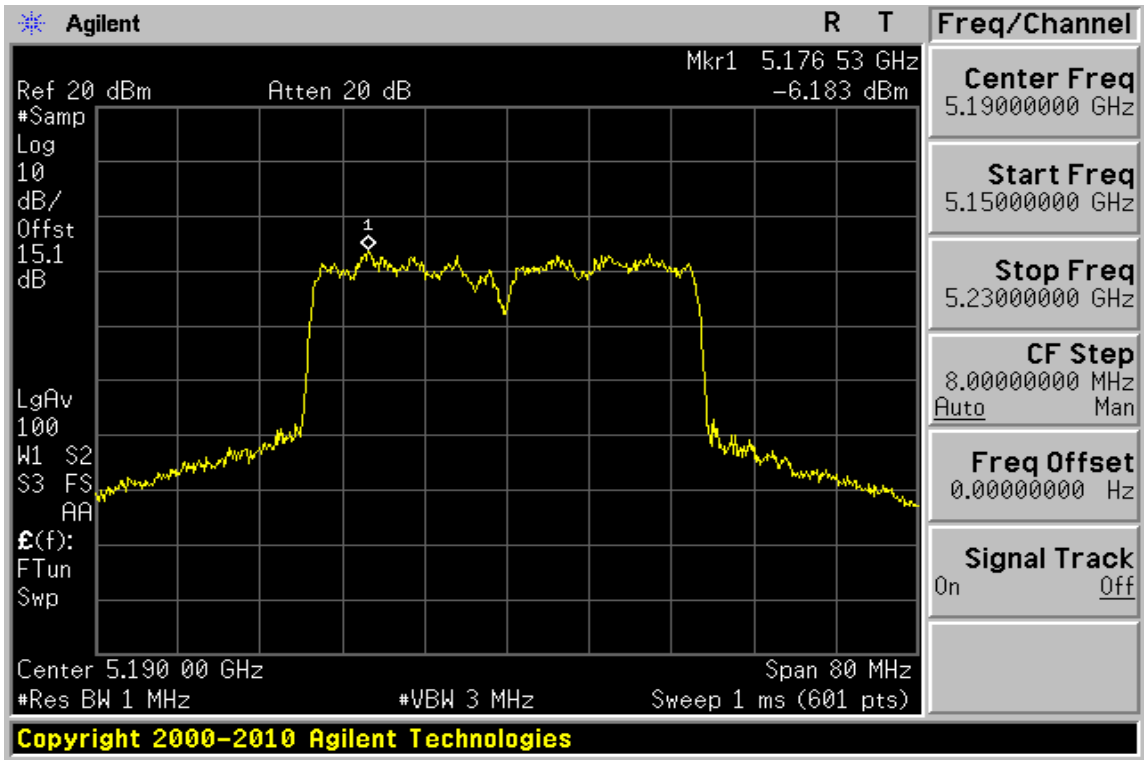
Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



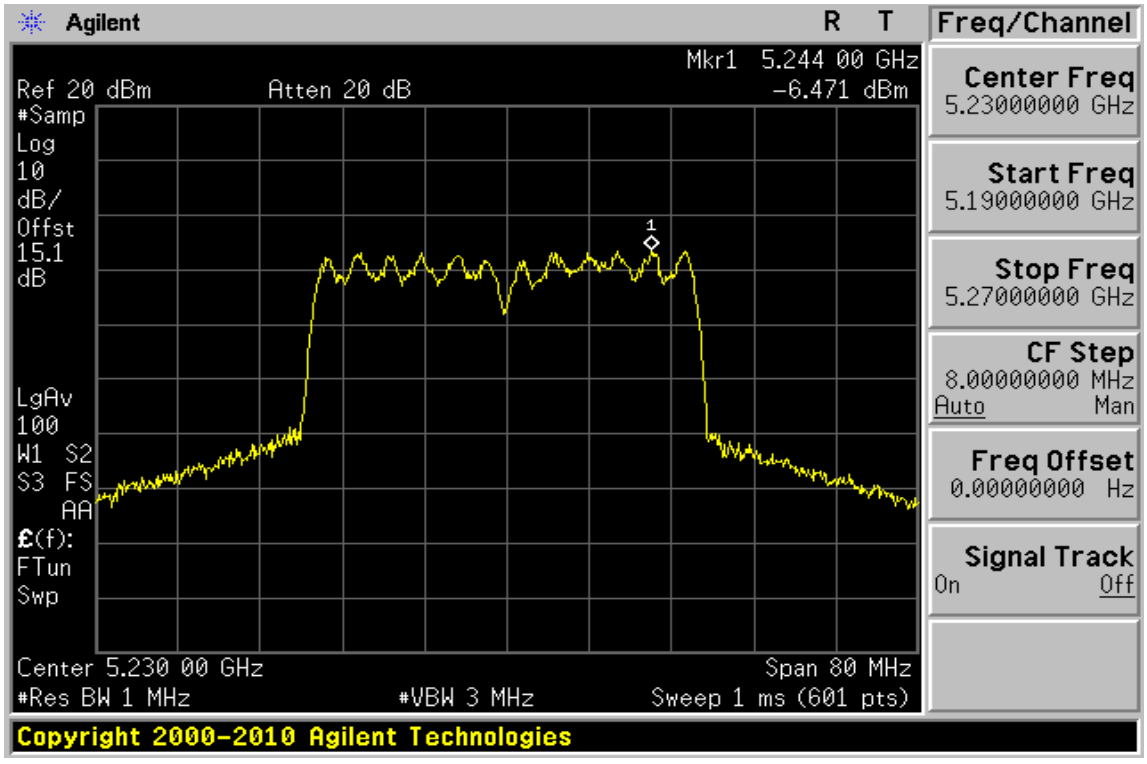
Peak Power Spectral Density Data Plot (CH High 5825 MHz)



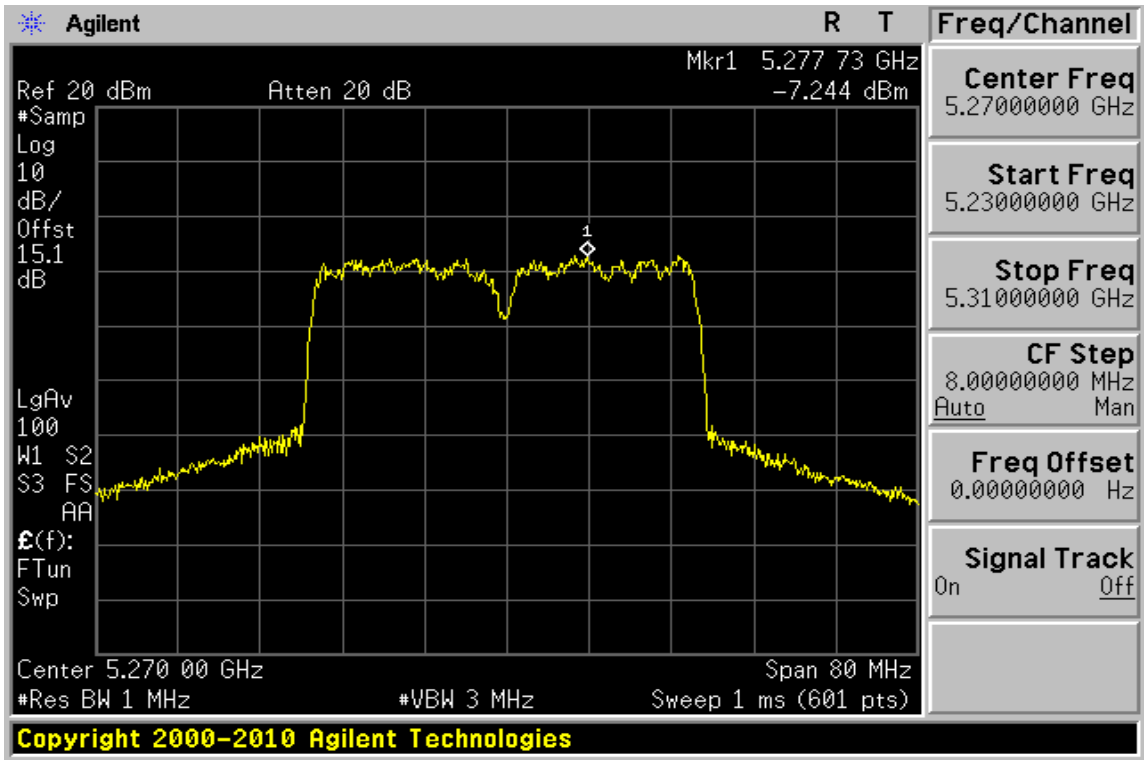
802.11n HT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



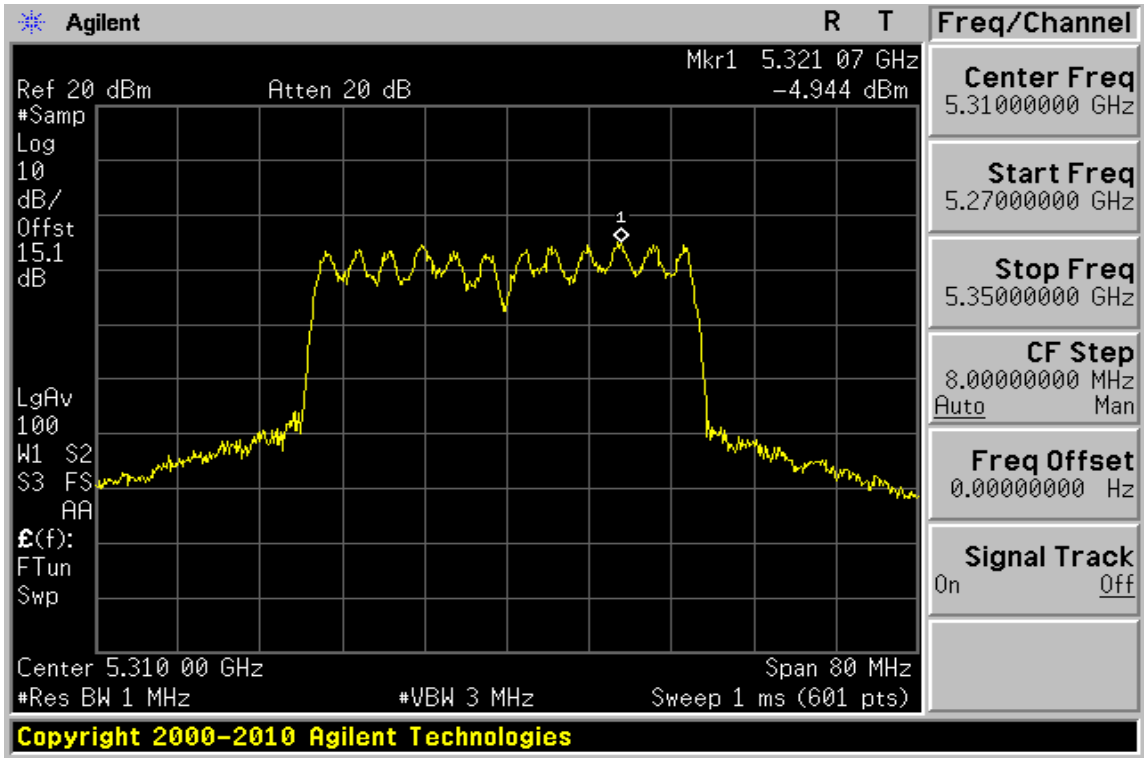
Peak Power Spectral Density Data Plot (CH High 5230 MHz)



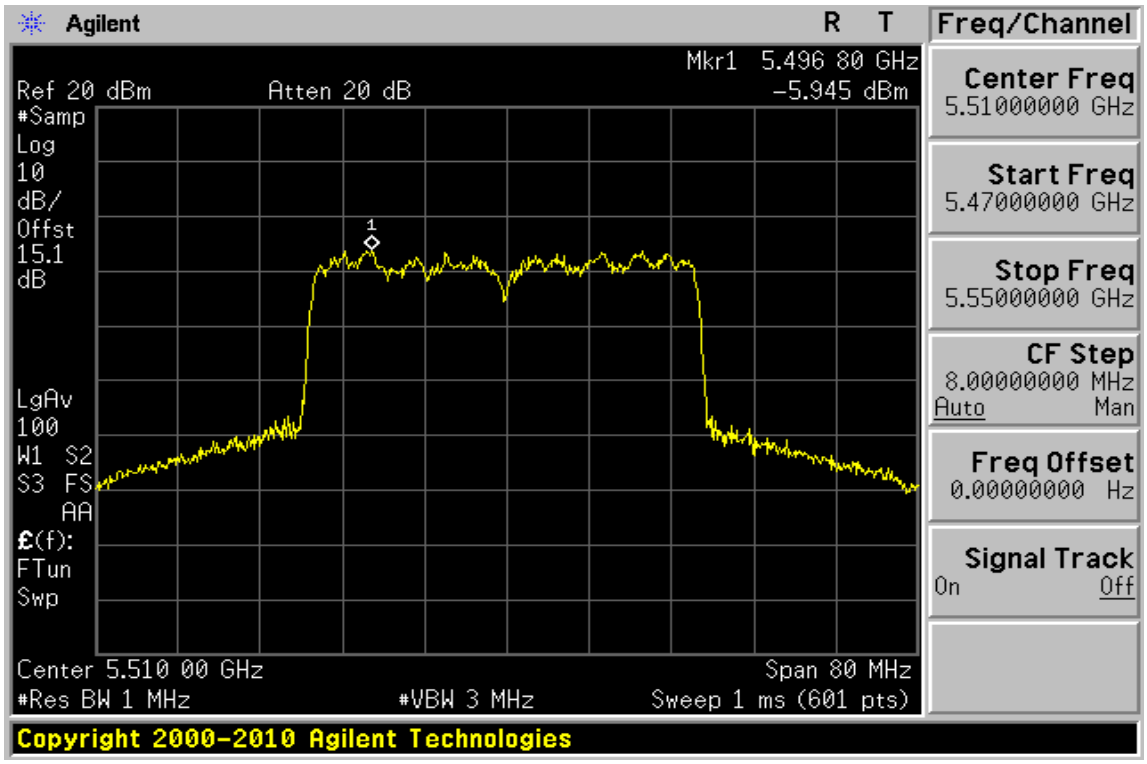
802.11n HT40, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



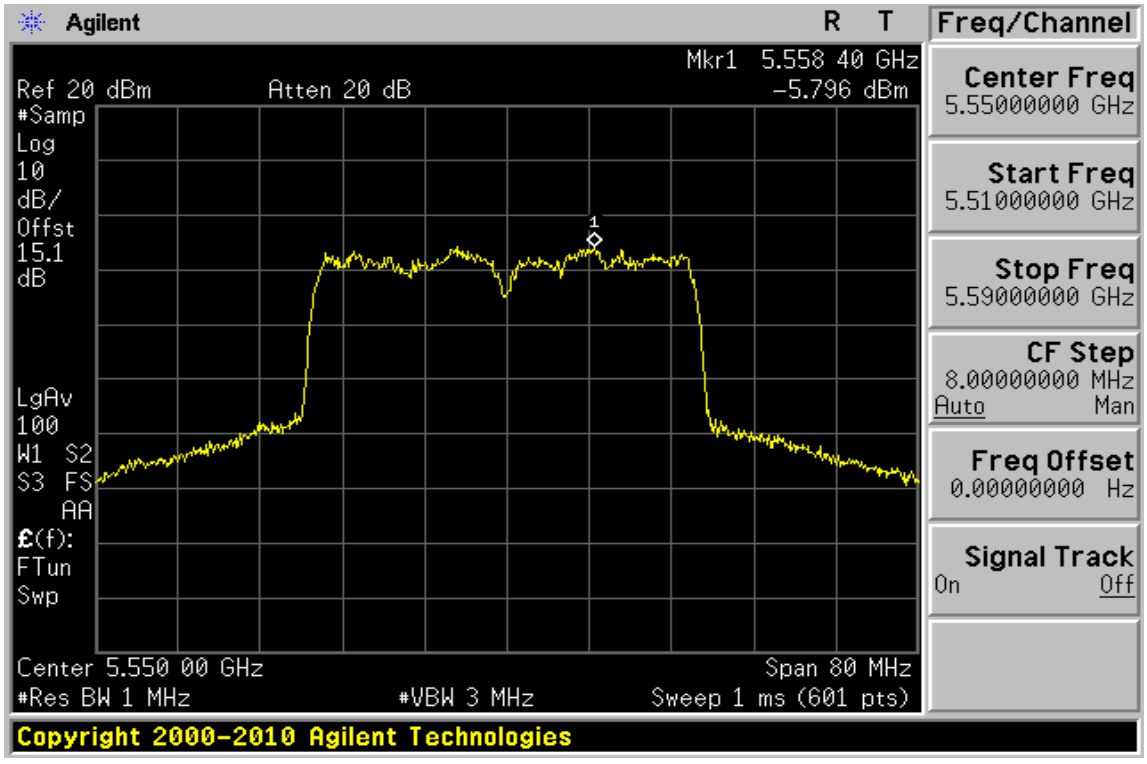
Peak Power Spectral Density Data Plot (CH High 5310 MHz)



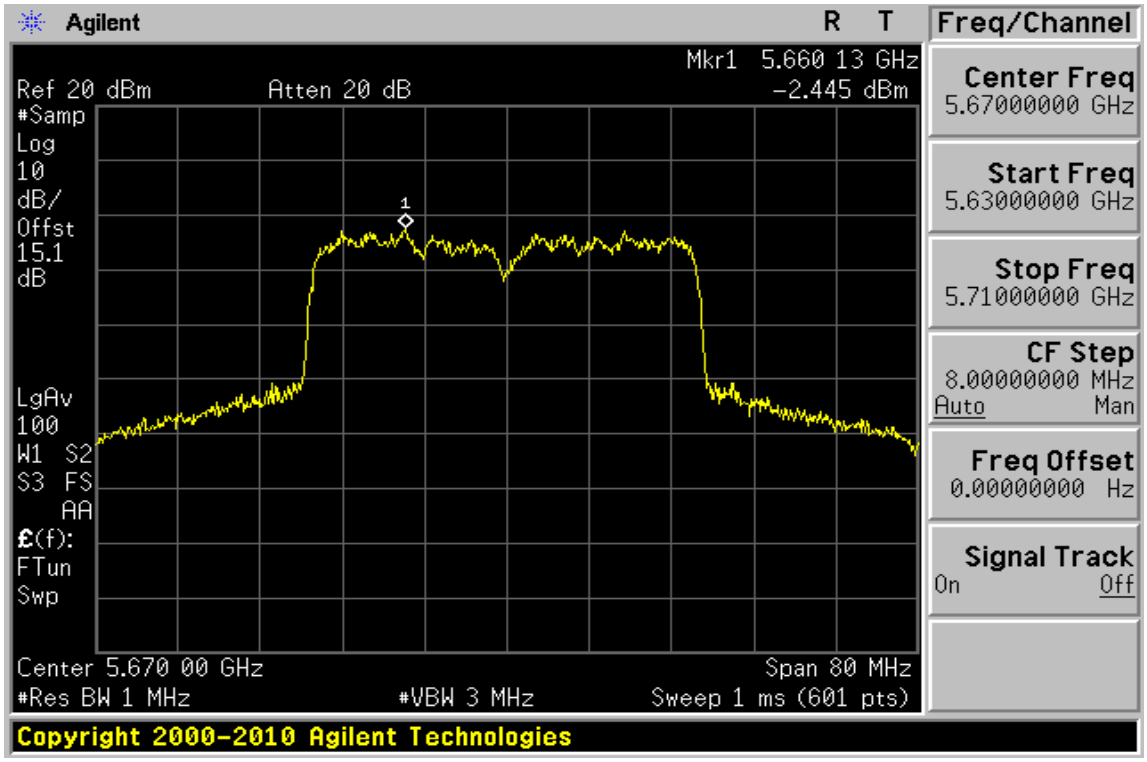
802.11n HT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)

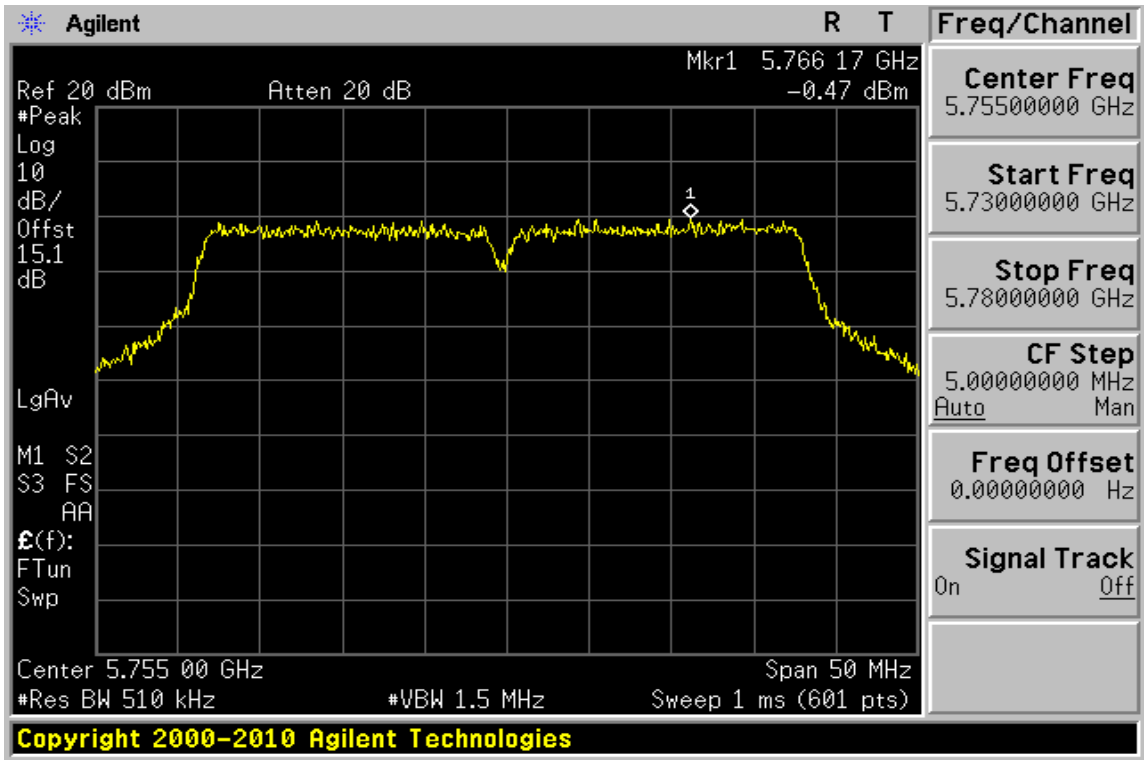


Peak Power Spectral Density Data Plot (CH High 5670 MHz)

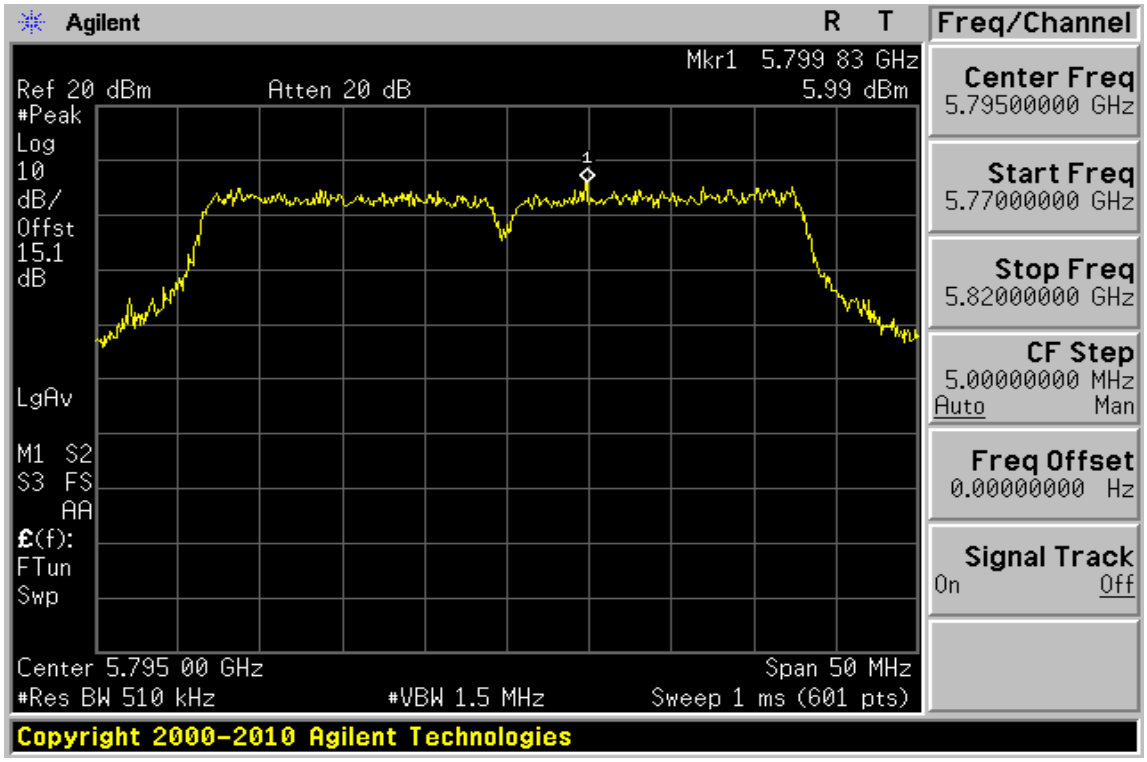


802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of –17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of –27 dBm/MHz.

APPLICABLE TO	**LIMIT**	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**FIELD STRENGTH AT 3m**
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)

EIRP = ((E*d)^2) / 30, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

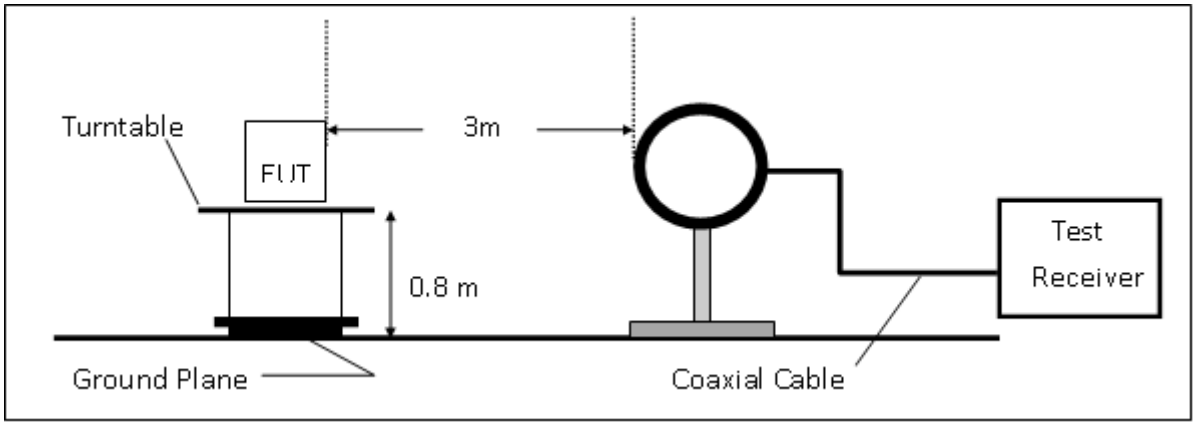
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/m)

11.2 Measurement Equipment Used

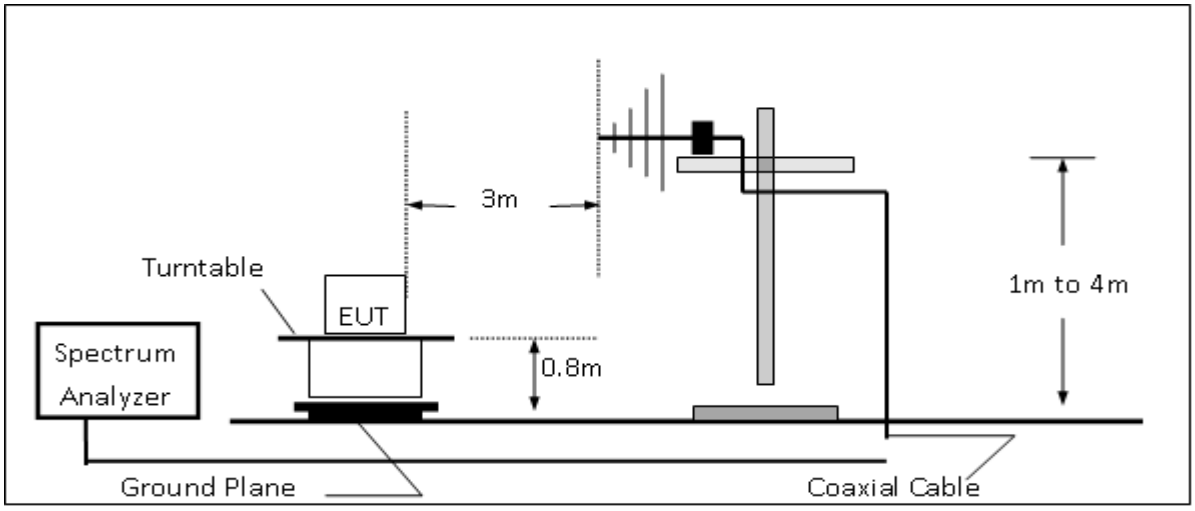
966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/26/2014	05/25/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Loop Antenna	ETS.LINDGREN	6502	00148045	07/03/2014	07/02/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/02/2015	01/01/2016
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/02/2015	01/01/2016
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

11.3 Test SET-UP

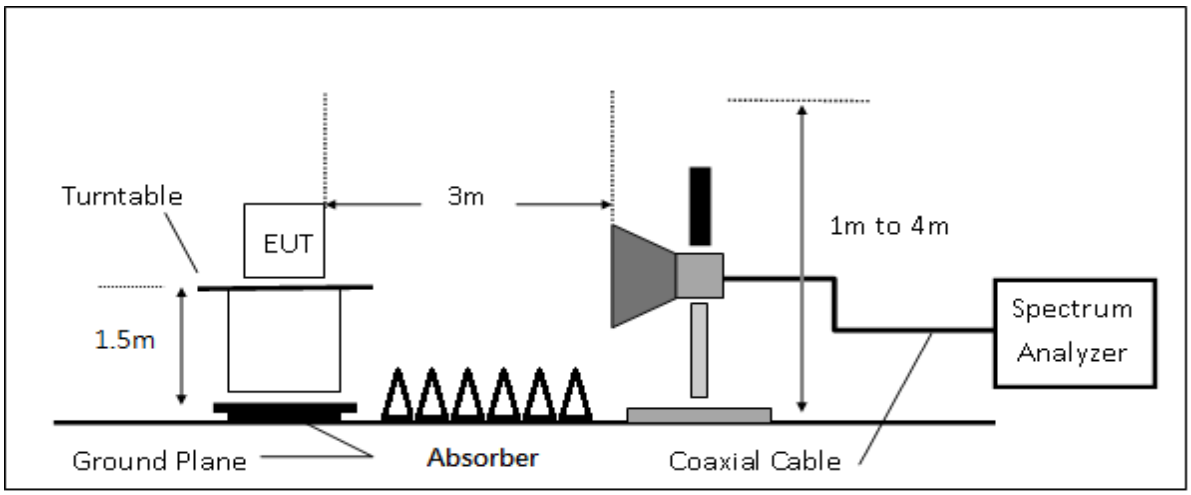
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

"**F**" : denotes Fundamental Frequency. ; "**H**" : denotes Harmonic Frequency.

"**E**" : denotes Band Edge Frequency. ; "**S**" : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

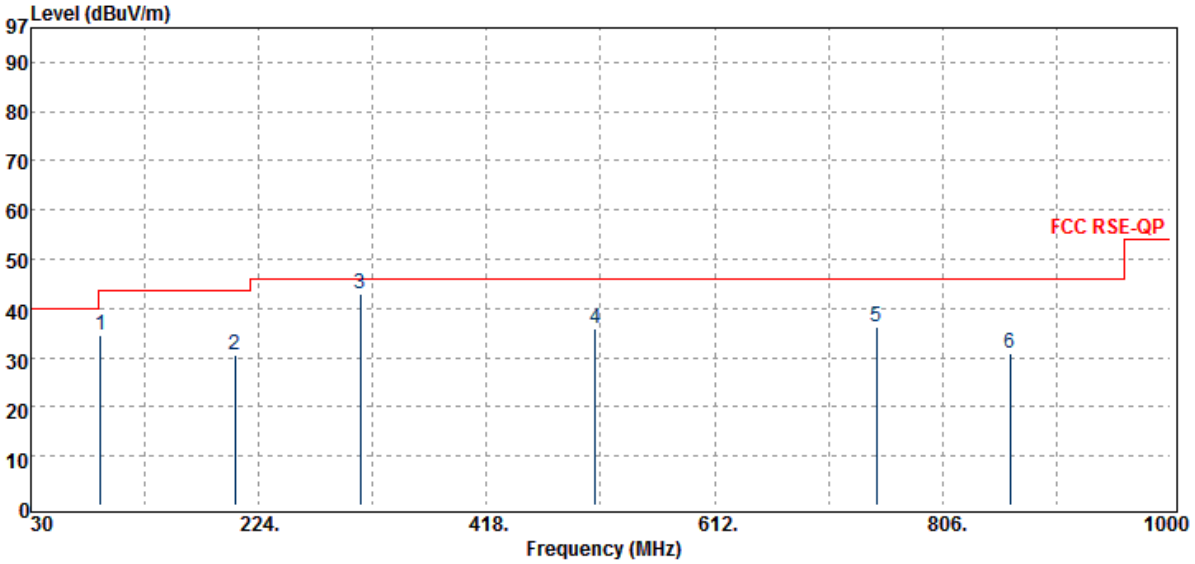
Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data (Internal Antenna):

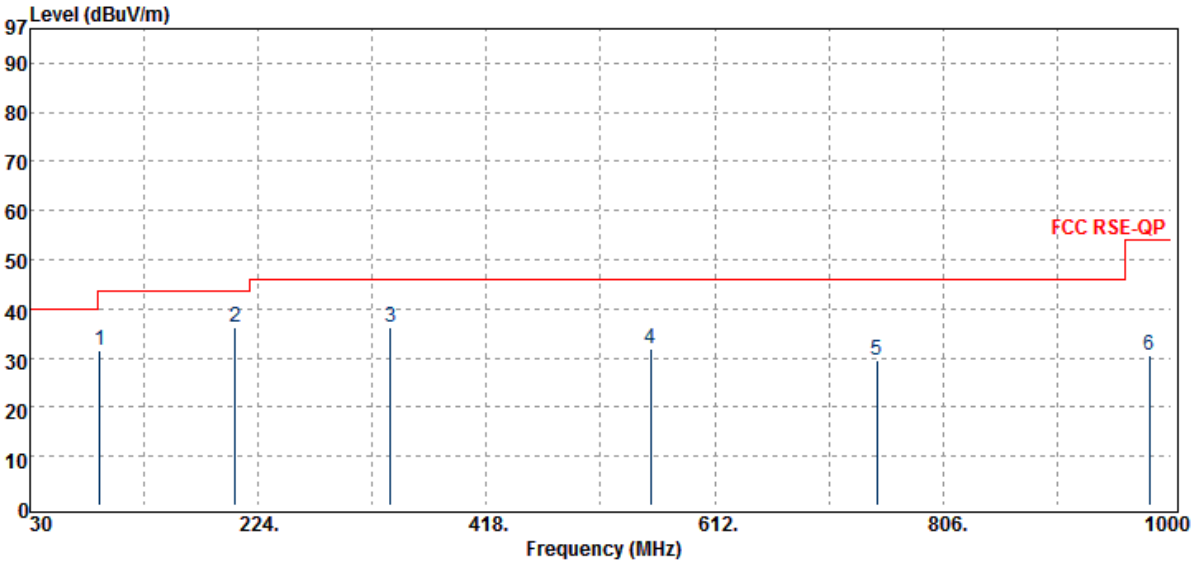
802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	49.75	-15.33	34.42	43.50	-9.08
203.63	S	Peak	42.04	-11.57	30.47	43.50	-13.03
310.33	S	Peak	50.60	-7.64	42.96	46.00	-3.04
510.15	S	Peak	40.52	-4.49	36.03	46.00	-9.97
749.74	S	Peak	36.00	0.27	36.27	46.00	-9.73
863.23	S	Peak	28.52	2.30	30.82	46.00	-15.18

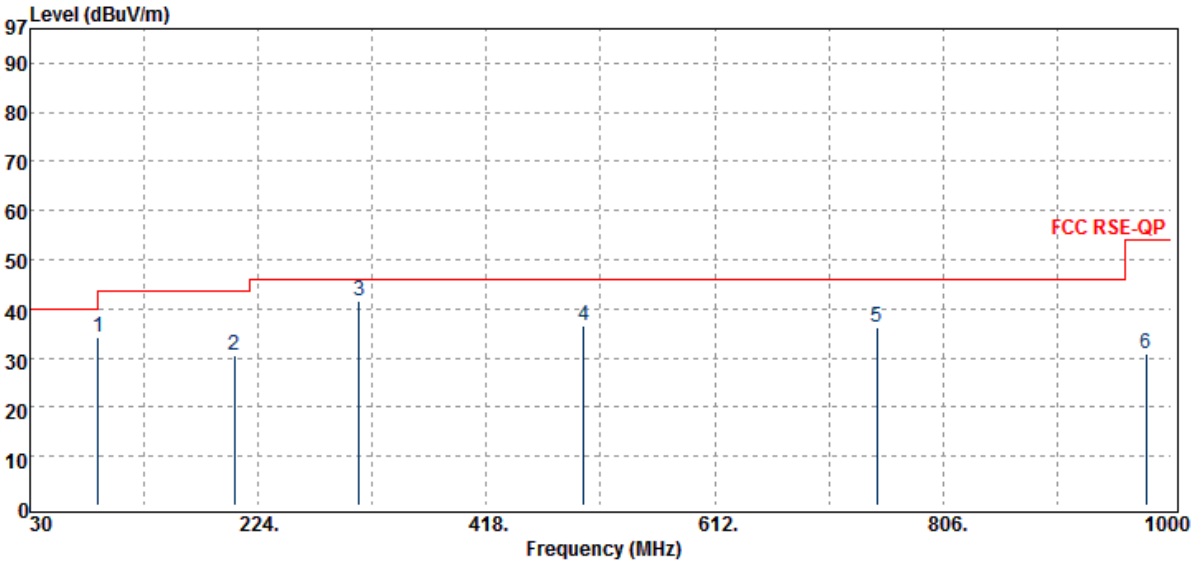
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	46.88	-15.33	31.55	43.50	-11.95
204.60	S	Peak	47.83	-11.51	36.32	43.50	-7.18
336.52	S	Peak	43.91	-7.59	36.32	46.00	-9.68
557.68	S	Peak	35.63	-3.89	31.74	46.00	-14.26
749.74	S	Peak	29.38	0.27	29.65	46.00	-16.35
981.57	S	Peak	27.21	3.38	30.59	54.00	-23.41

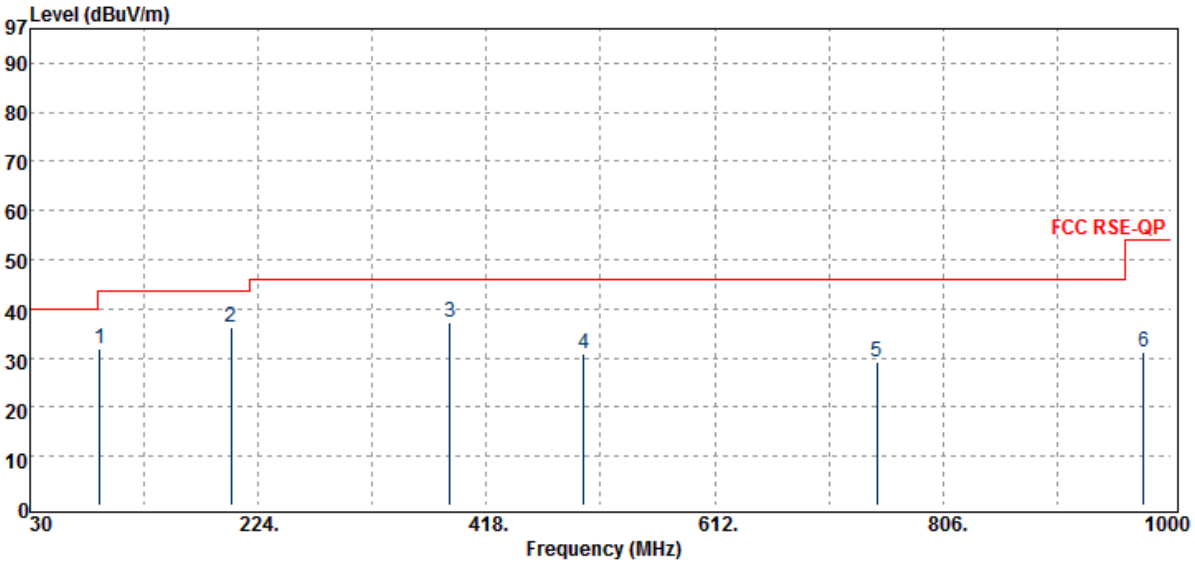
802.11a, 5250~5350 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
88.20	S	Peak	49.31	-15.13	34.18	43.50	-9.32
203.63	S	Peak	41.98	-11.57	30.41	43.50	-13.09
309.36	S	Peak	49.37	-7.67	41.70	46.00	-4.30
500.45	S	Peak	40.78	-4.34	36.44	46.00	-9.56
749.74	S	Peak	35.91	0.27	36.18	46.00	-9.82
978.66	S	Peak	27.43	3.43	30.86	54.00	-23.14

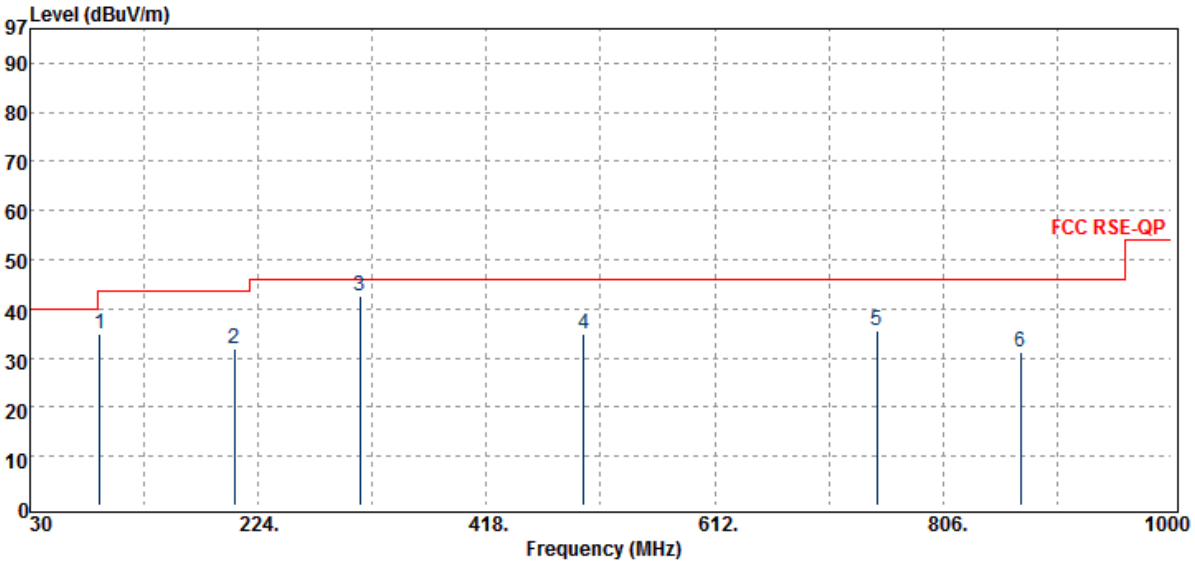
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	47.14	-15.33	31.81	43.50	-11.69
200.72	S	Peak	47.89	-11.77	36.12	43.50	-7.38
386.96	S	Peak	43.51	-6.20	37.31	46.00	-8.69
500.45	S	Peak	35.17	-4.34	30.83	46.00	-15.17
749.74	S	Peak	28.90	0.27	29.17	46.00	-16.83
976.72	S	Peak	27.60	3.47	31.07	54.00	-22.93

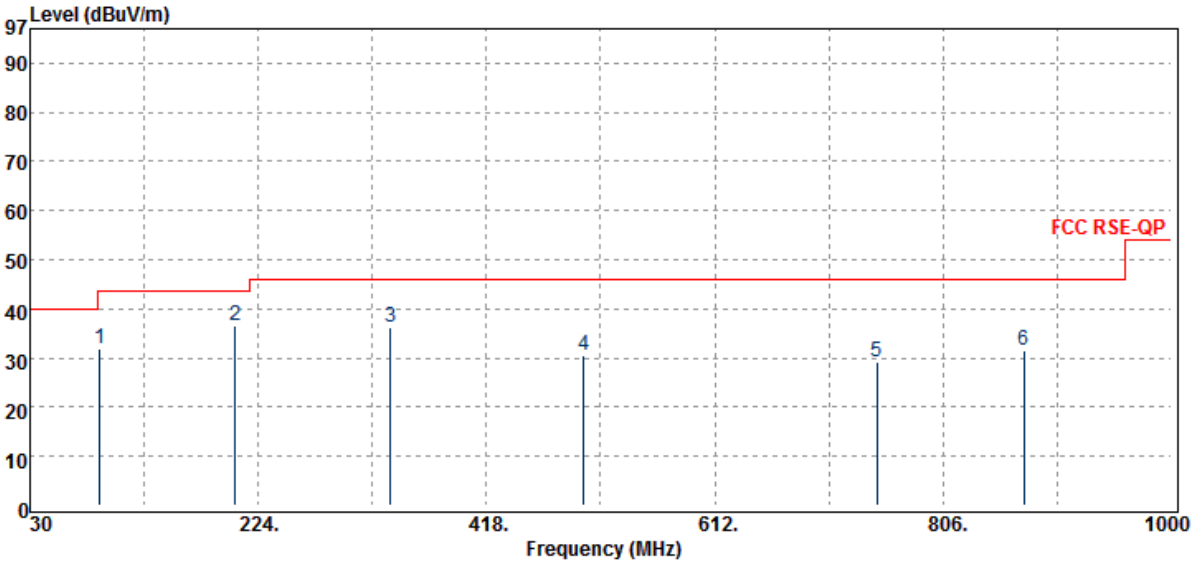
802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	50.18	-15.33	34.85	43.50	-8.65
203.63	S	Peak	43.35	-11.57	31.78	43.50	-11.72
310.33	S	Peak	50.40	-7.64	42.76	46.00	-3.24
500.45	S	Peak	39.15	-4.34	34.81	46.00	-11.19
749.74	S	Peak	35.30	0.27	35.57	46.00	-10.43
871.96	S	Peak	28.79	2.51	31.30	46.00	-14.70

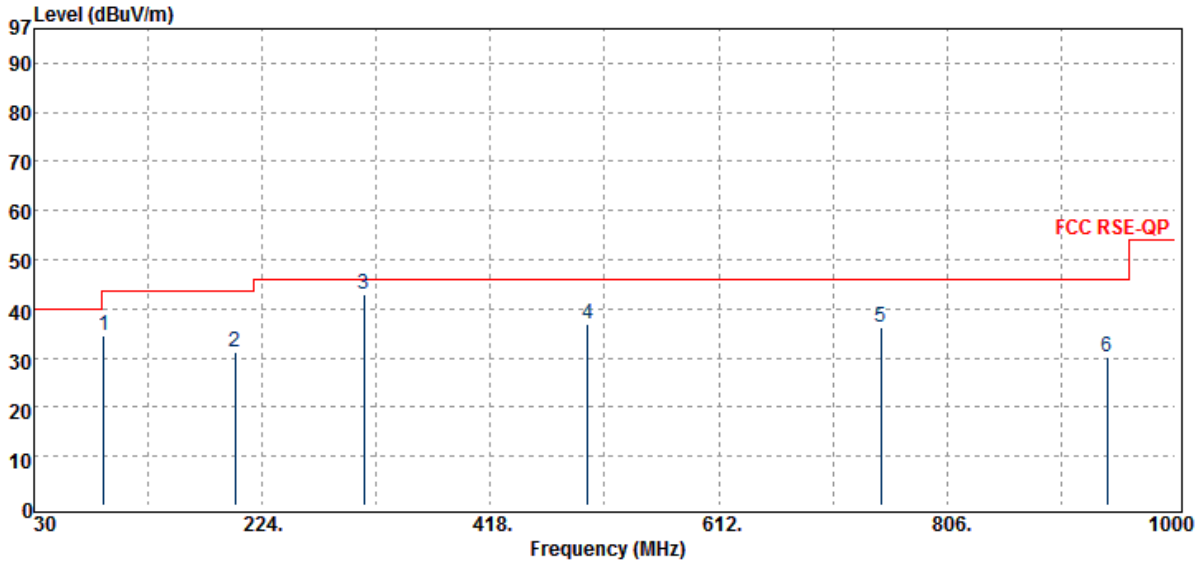
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	47.37	-15.33	32.04	43.50	-11.46
204.60	S	Peak	47.99	-11.51	36.48	43.50	-7.02
336.52	S	Peak	43.83	-7.59	36.24	46.00	-9.76
500.45	S	Peak	34.86	-4.34	30.52	46.00	-15.48
749.74	S	Peak	28.97	0.27	29.24	46.00	-16.76
874.87	S	Peak	29.08	2.44	31.52	46.00	-14.48

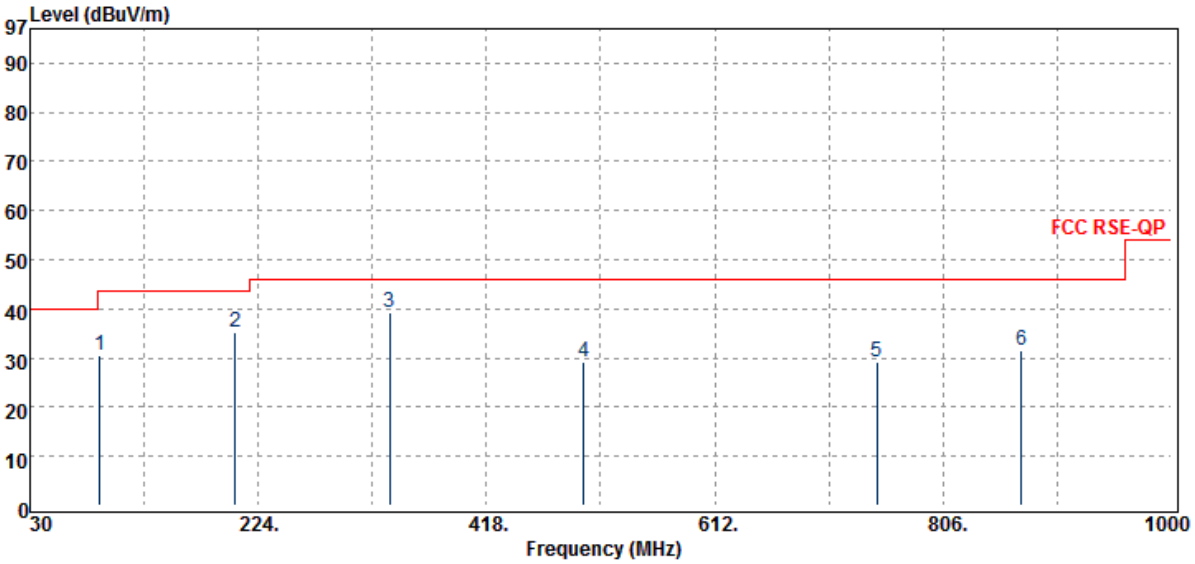
802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	49.91	-15.33	34.58	43.50	-8.92
200.72	S	Peak	43.10	-11.77	31.33	43.50	-12.17
310.33	S	Peak	50.45	-7.64	42.81	46.00	-3.19
500.45	S	Peak	41.15	-4.34	36.81	46.00	-9.19
749.74	S	Peak	35.86	0.27	36.13	46.00	-9.87
941.80	S	Peak	27.24	2.97	30.21	46.00	-15.79

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

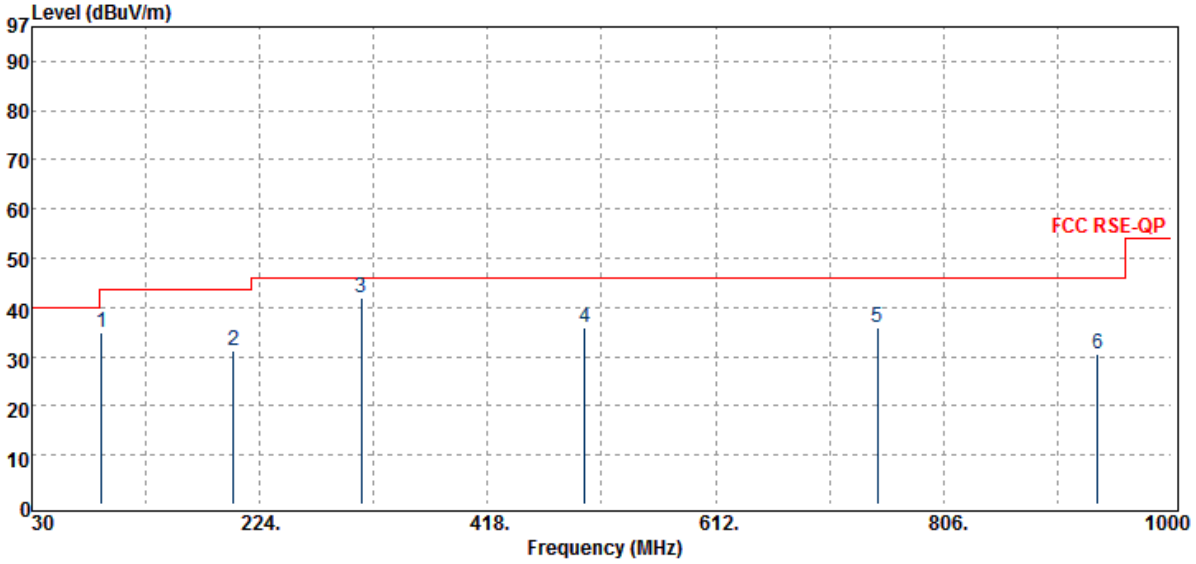


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	45.99	-15.33	30.66	43.50	-12.84
204.60	S	Peak	46.70	-11.51	35.19	43.50	-8.31
335.55	S	Peak	46.95	-7.61	39.34	46.00	-6.66
500.45	S	Peak	33.51	-4.34	29.17	46.00	-16.83
749.74	S	Peak	28.88	0.27	29.15	46.00	-16.85
872.93	S	Peak	28.89	2.50	31.39	46.00	-14.61

Below 1GHz Worst-Case Data (External Antenna):

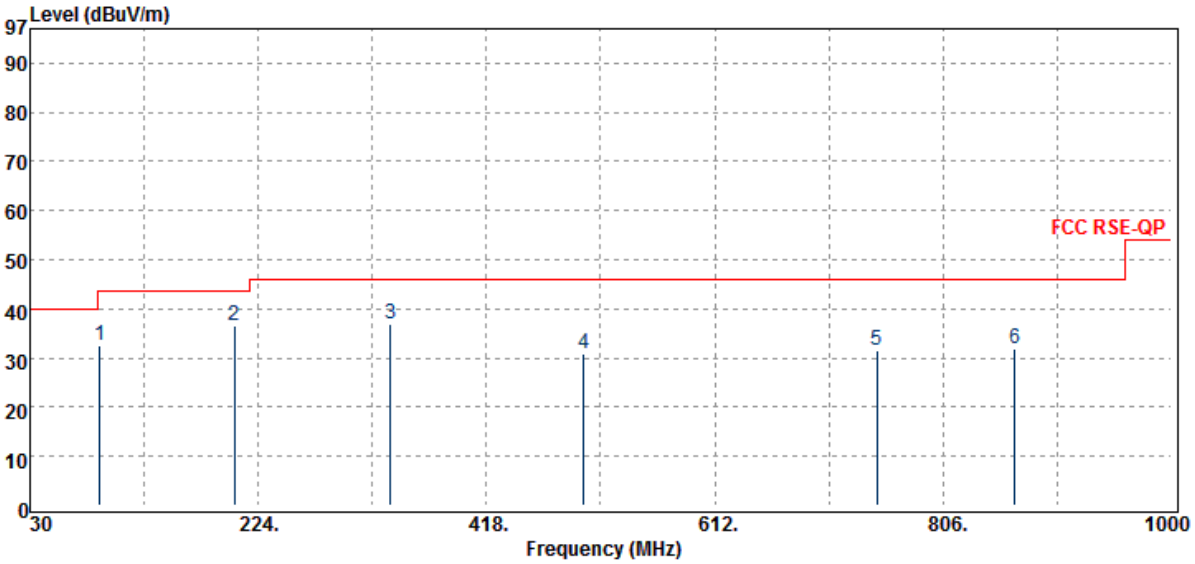
802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	50.07	-15.33	34.74	43.50	-8.76
201.69	S	Peak	42.77	-11.69	31.08	43.50	-12.42
310.33	S	Peak	49.75	-7.64	42.11	46.00	-3.89
500.45	S	Peak	40.16	-4.34	35.82	46.00	-10.18
749.74	S	Peak	35.78	0.27	36.05	46.00	-9.95
936.95	S	Peak	27.70	2.87	30.57	46.00	-15.43

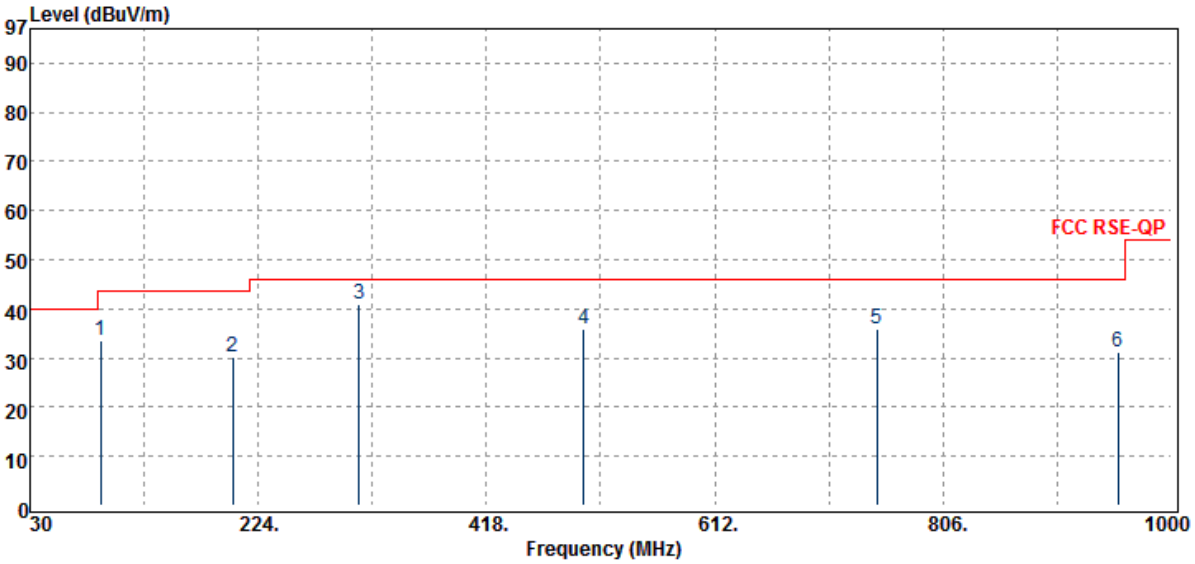
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	47.74	-15.33	32.41	43.50	-11.09
203.63	S	Peak	48.14	-11.57	36.57	43.50	-6.93
336.52	S	Peak	44.39	-7.59	36.80	46.00	-9.20
500.45	S	Peak	35.35	-4.34	31.01	46.00	-14.99
749.74	S	Peak	31.27	0.27	31.54	46.00	-14.46
867.11	S	Peak	29.23	2.49	31.72	46.00	-14.28

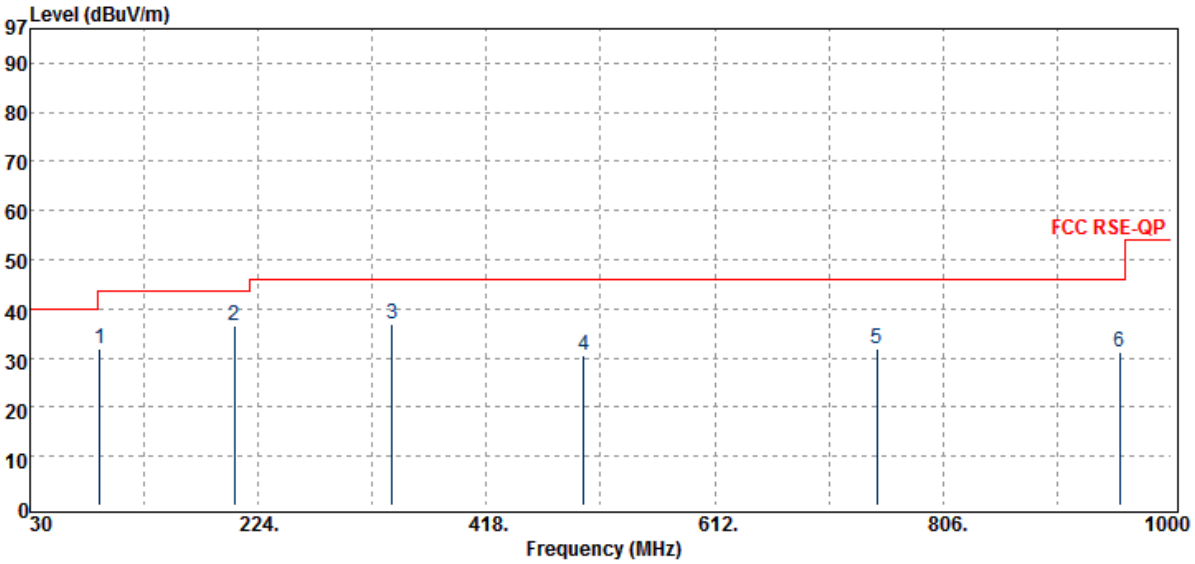
802.11a, 5250~5350 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
90.14	S	Peak	49.10	-15.48	33.62	43.50	-9.88
202.66	S	Peak	42.00	-11.63	30.37	43.50	-13.13
309.36	S	Peak	48.78	-7.67	41.11	46.00	-4.89
500.45	S	Peak	40.21	-4.34	35.87	46.00	-10.13
749.74	S	Peak	35.52	0.27	35.79	46.00	-10.21
954.41	S	Peak	27.64	3.49	31.13	46.00	-14.87

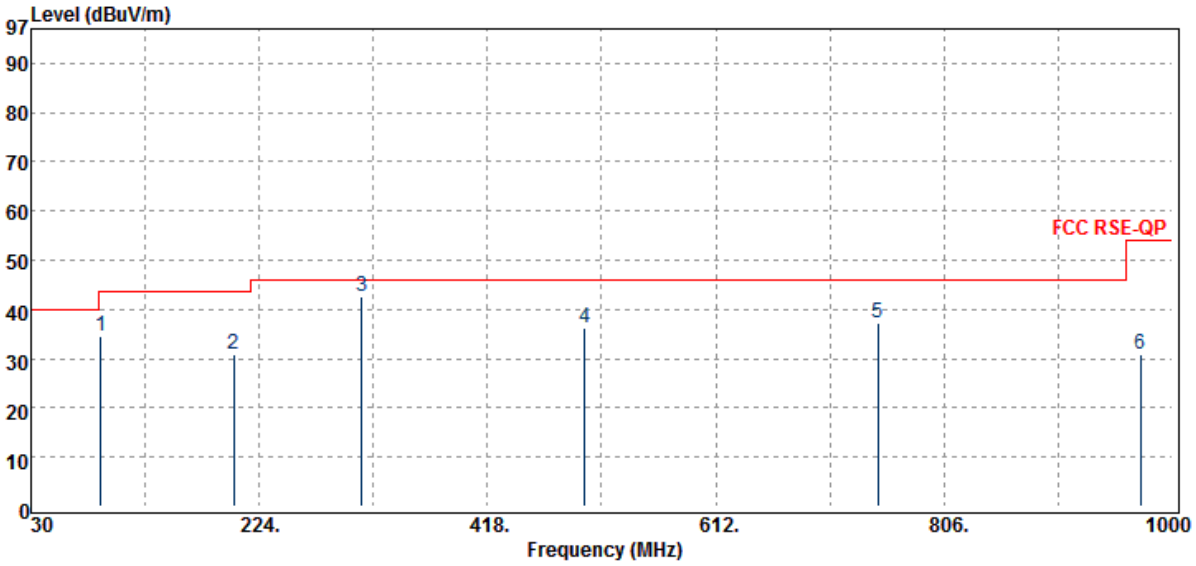
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	47.19	-15.33	31.86	43.50	-11.64
203.63	S	Peak	48.04	-11.57	36.47	43.50	-7.03
337.49	S	Peak	44.60	-7.56	37.04	46.00	-8.96
500.45	S	Peak	34.83	-4.34	30.49	46.00	-15.51
749.74	S	Peak	31.69	0.27	31.96	46.00	-14.04
956.35	S	Peak	27.69	3.56	31.25	46.00	-14.75

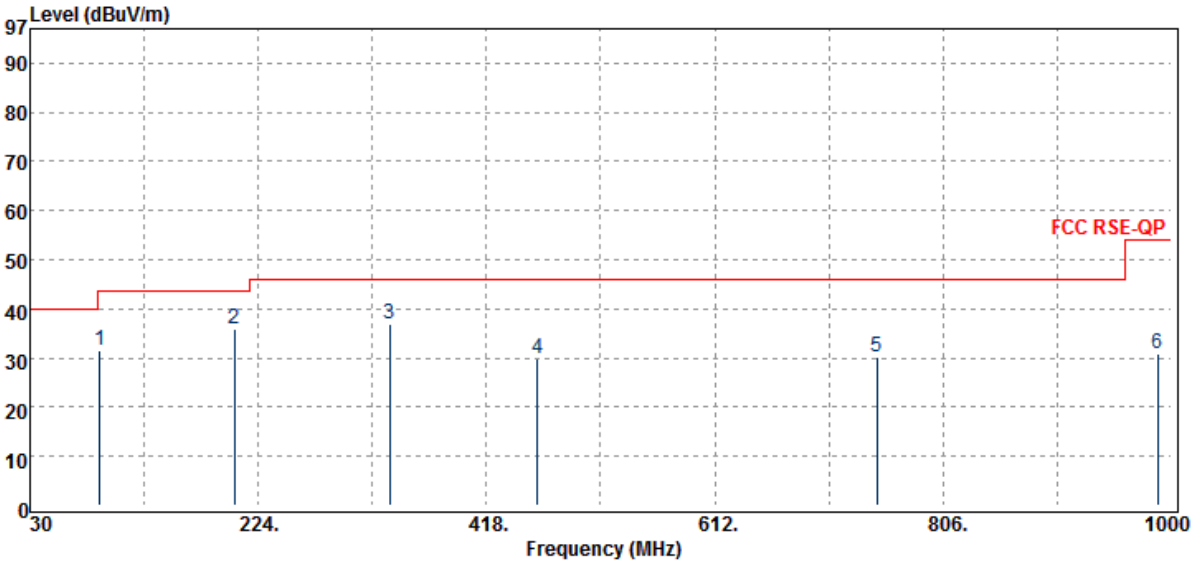
802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	50.01	-15.33	34.68	43.50	-8.82
202.66	S	Peak	42.34	-11.63	30.71	43.50	-12.79
311.30	S	Peak	50.08	-7.61	42.47	46.00	-3.53
500.45	S	Peak	40.47	-4.34	36.13	46.00	-9.87
749.74	S	Peak	37.03	0.27	37.30	46.00	-8.70
972.84	S	Peak	27.29	3.56	30.85	54.00	-23.15

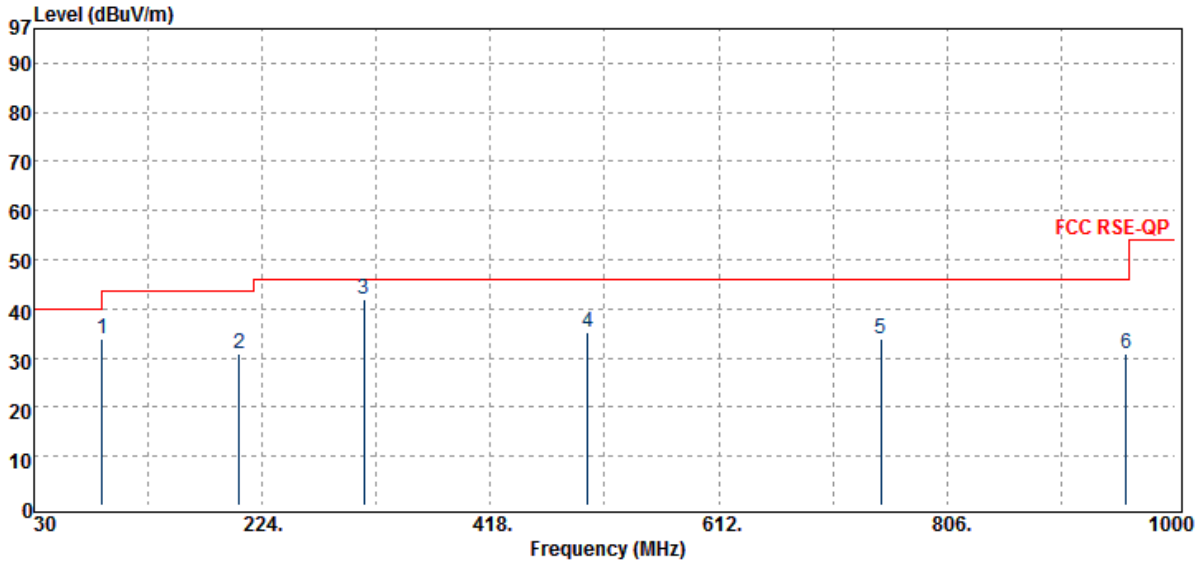
Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	46.85	-15.33	31.52	43.50	-11.98
203.63	S	Peak	47.60	-11.57	36.03	43.50	-7.47
335.55	S	Peak	44.55	-7.61	36.94	46.00	-9.06
461.65	S	Peak	35.44	-5.44	30.00	46.00	-16.00
749.74	S	Peak	29.99	0.27	30.26	46.00	-15.74
988.36	S	Peak	27.45	3.40	30.85	54.00	-23.15

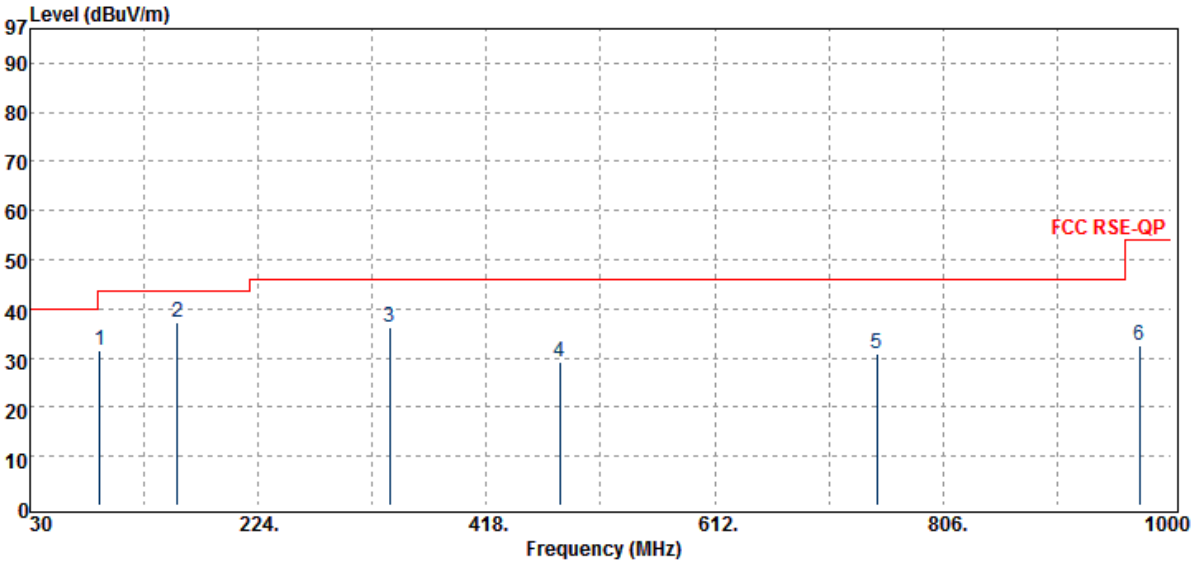
802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
88.20	S	Peak	49.13	-15.13	34.00	43.50	-9.50
204.60	S	Peak	42.43	-11.51	30.92	43.50	-12.58
310.33	S	Peak	49.53	-7.64	41.89	46.00	-4.11
500.45	S	Peak	39.61	-4.34	35.27	46.00	-10.73
749.74	S	Peak	33.70	0.27	33.97	46.00	-12.03
958.29	S	Peak	27.24	3.62	30.86	46.00	-15.14

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

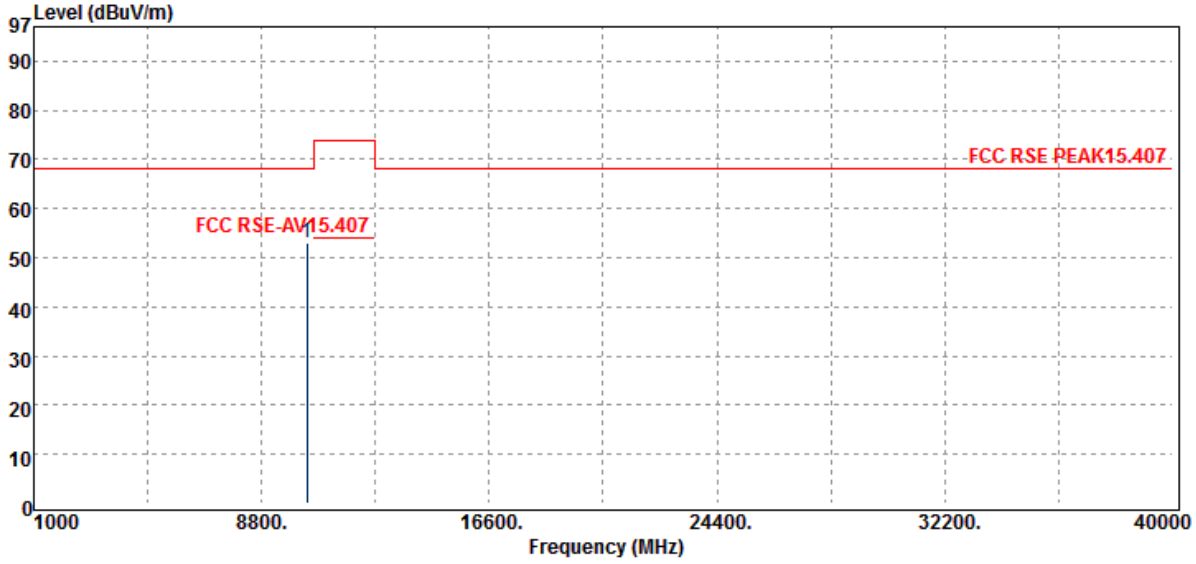


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
89.17	S	Peak	46.86	-15.33	31.53	43.50	-11.97
155.13	S	Peak	46.43	-9.03	37.40	43.50	-6.10
335.55	S	Peak	43.95	-7.61	36.34	46.00	-9.66
480.08	S	Peak	33.94	-4.59	29.35	46.00	-16.65
749.74	S	Peak	30.51	0.27	30.78	46.00	-15.22
972.84	S	Peak	28.83	3.56	32.39	54.00	-21.61

Above 1GHz Worst-Case Data (Internal Antenna):

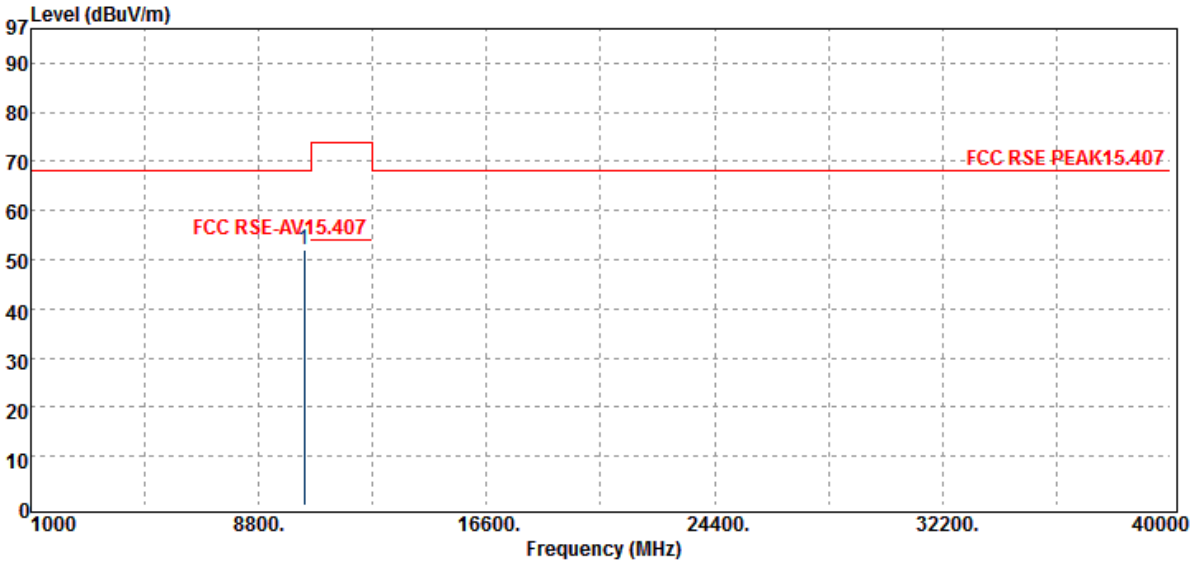
802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



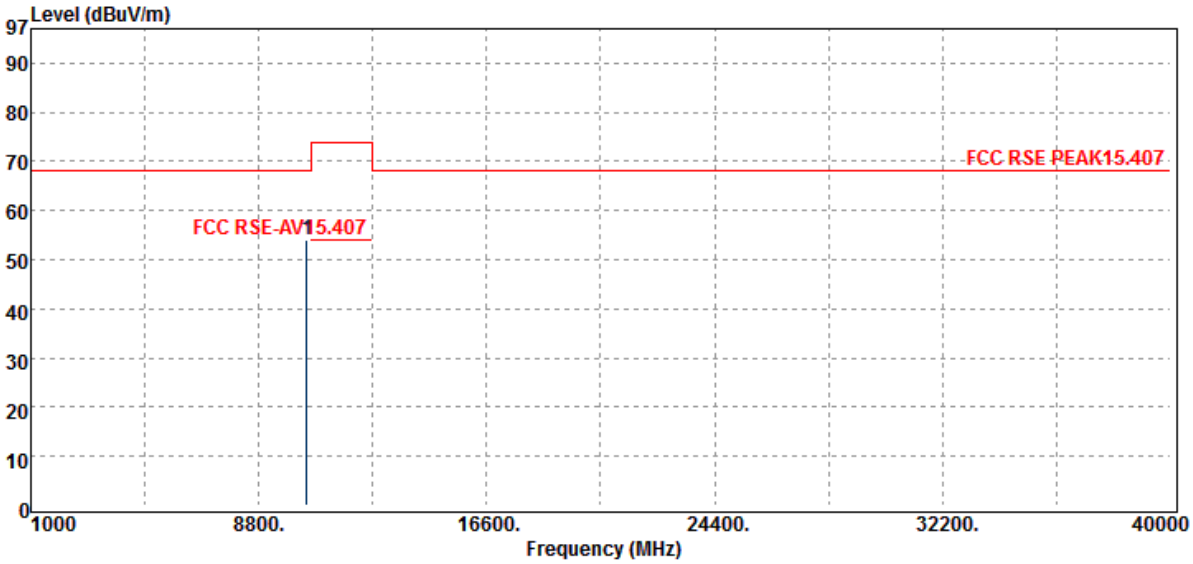
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	35.23	17.65	52.88	68.30	-15.42

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



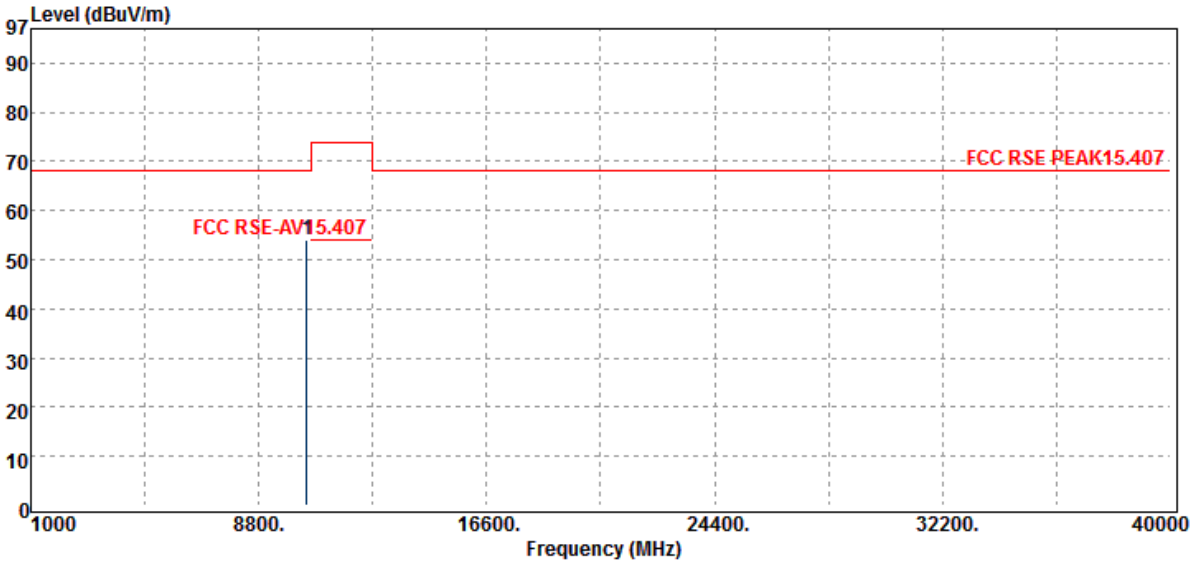
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	34.36	17.65	52.01	68.30	-16.29

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



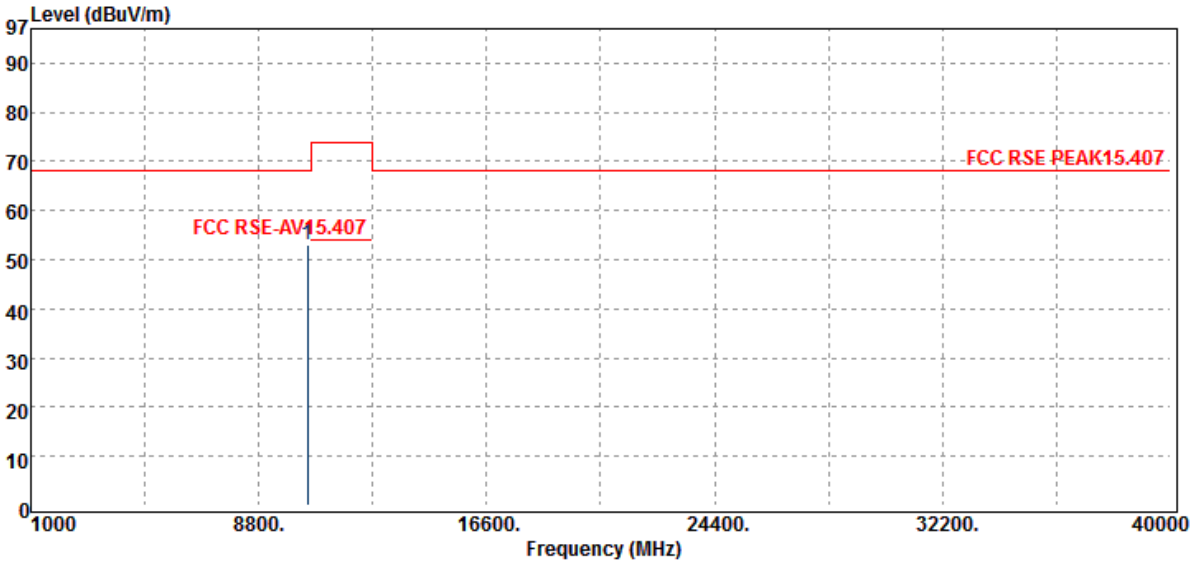
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	35.52	18.47	53.99	68.30	-14.31

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



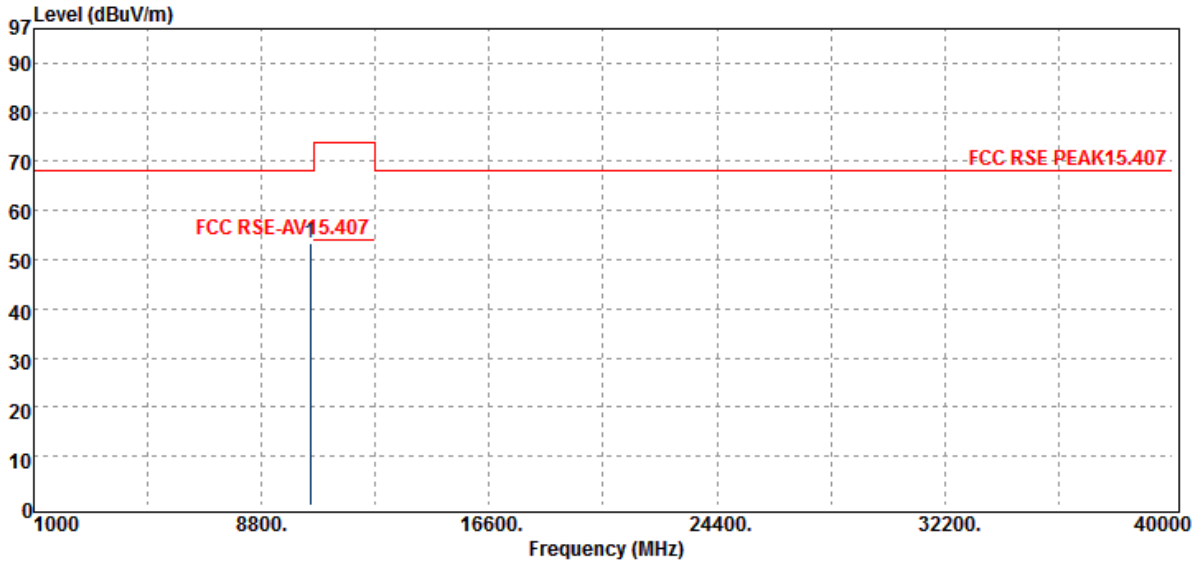
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	35.51	18.47	53.98	68.30	-14.32

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	34.68	18.23	52.91	68.30	-15.39

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	35.02	18.23	53.25	68.30	-15.05

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

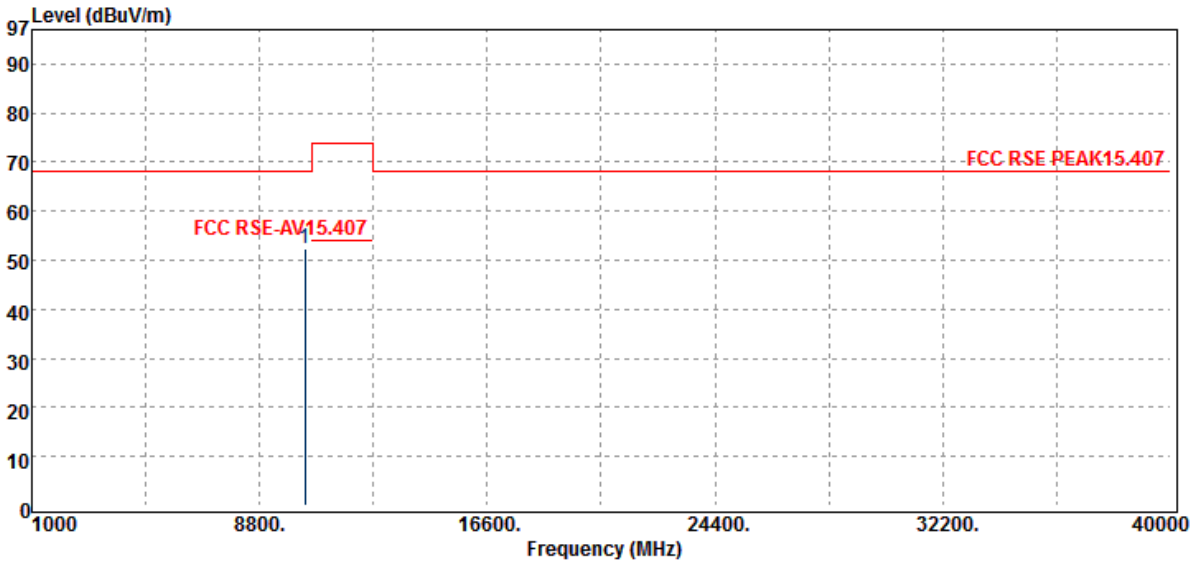
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5149.24	S	Average	35.24	10.32	45.56	54.00	-8.44
5149.24	S	Peak	58.01	10.32	68.33	74.00	-5.67
5150.00	E	Average	35.31	10.32	45.63	54.00	-8.37
5150.00	E	Peak	56.89	10.32	67.21	74.00	-6.79

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	35.78	10.32	46.10	54.00	-7.90
5150.00	E	Peak	57.66	10.32	67.98	74.00	-6.02

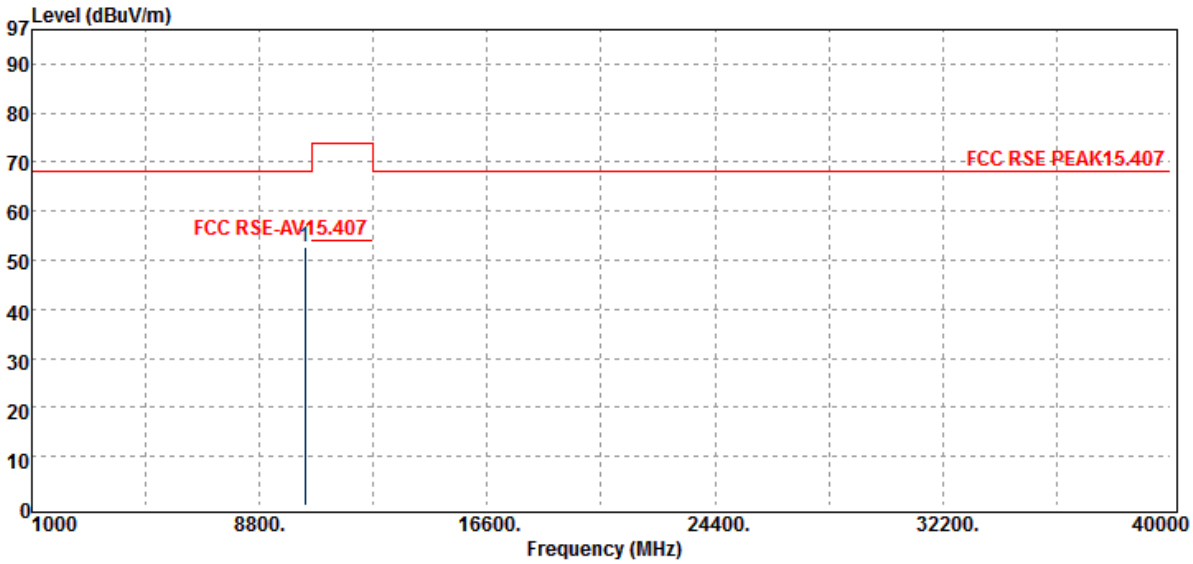
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



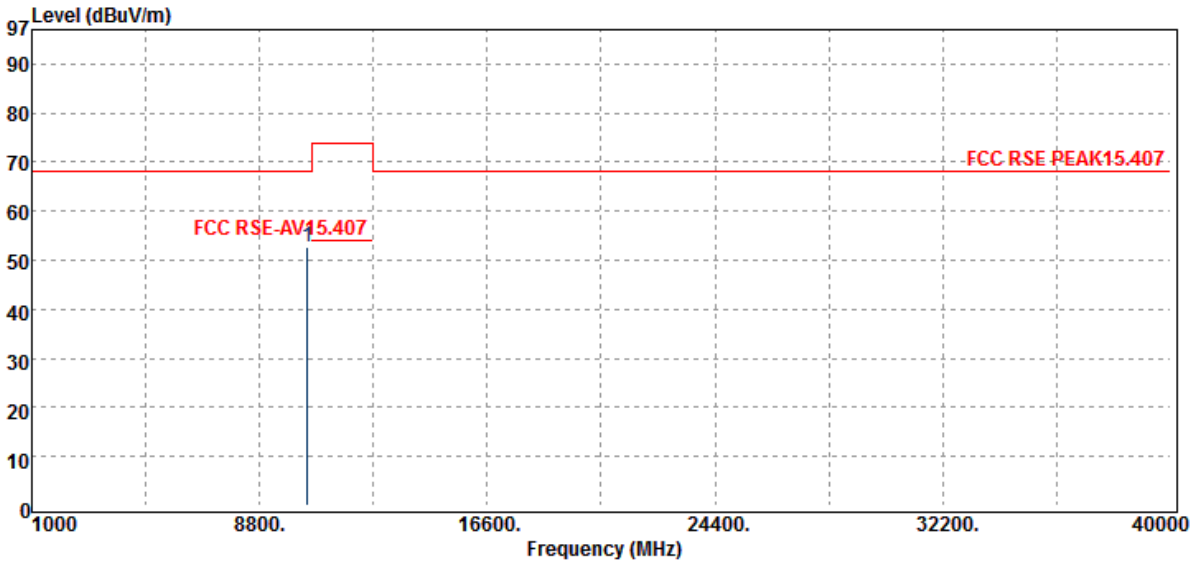
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	34.77	17.65	52.42	68.30	-15.88

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



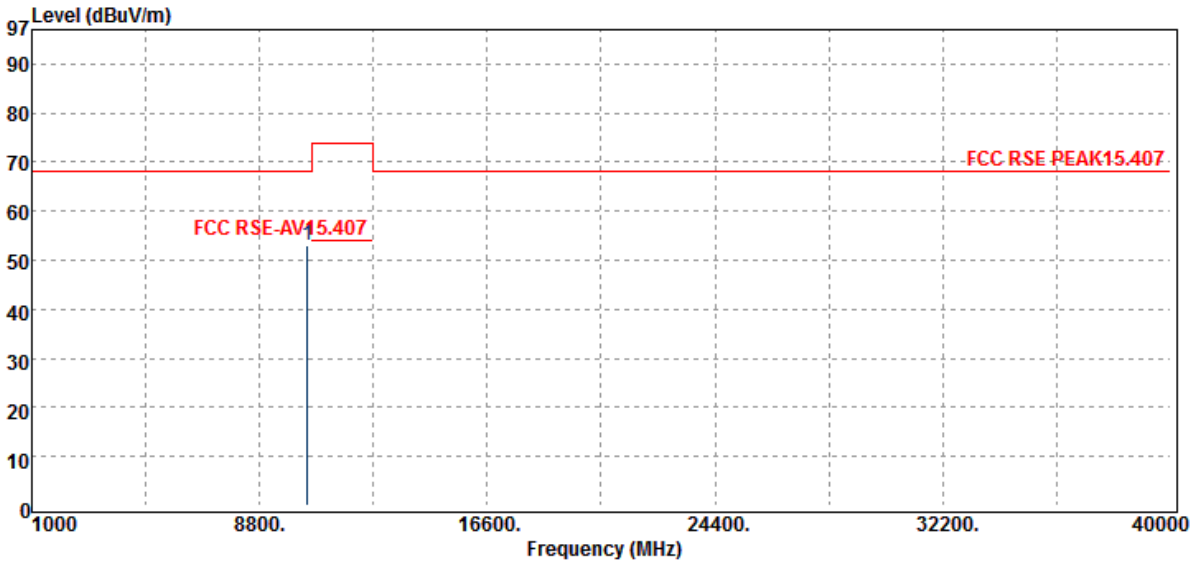
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	34.98	17.65	52.63	68.30	-15.67

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



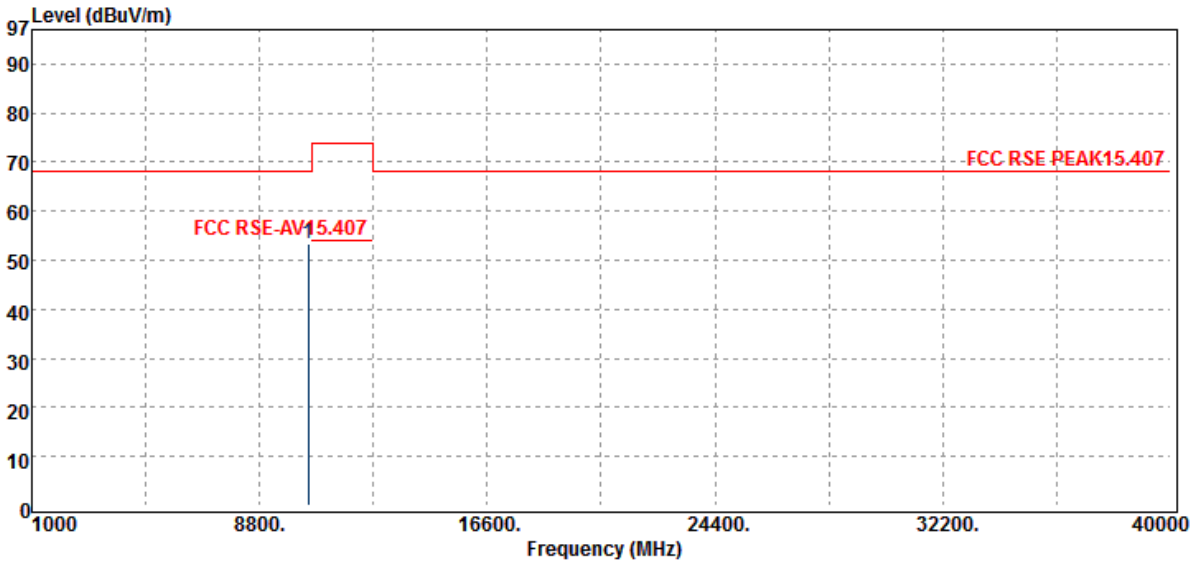
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	34.29	18.47	52.76	68.30	-15.54

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



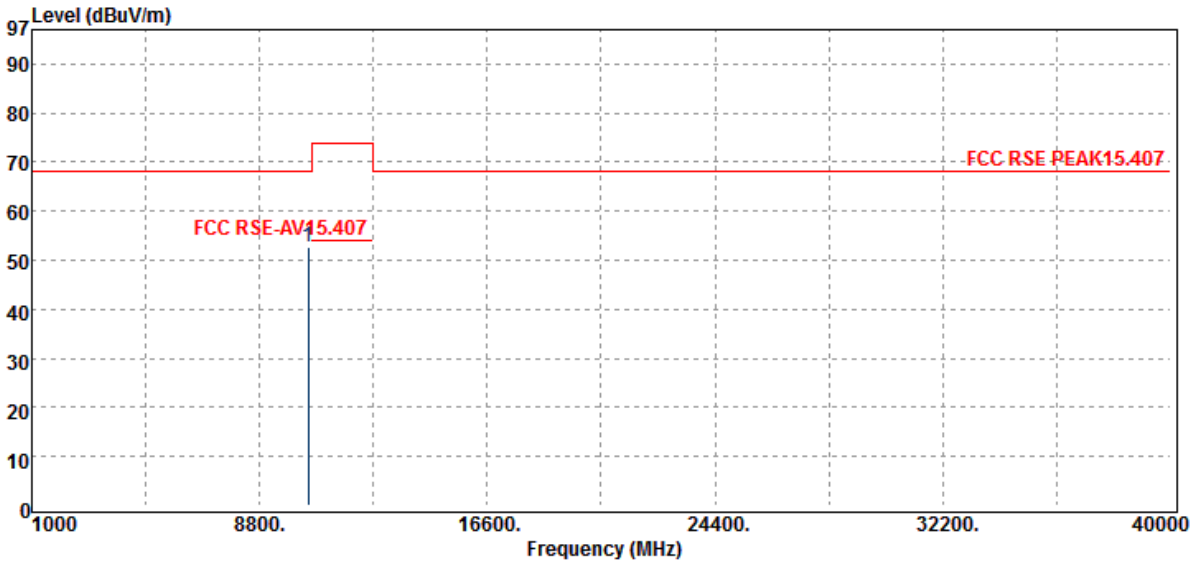
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	34.60	18.47	53.07	68.30	-15.23

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	35.19	18.23	53.42	68.30	-14.88

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	34.59	18.23	52.82	68.30	-15.48

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	35.73	10.32	46.05	54.00	-7.95
5150.00	E	Peak	55.93	10.32	66.25	74.00	-7.75

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

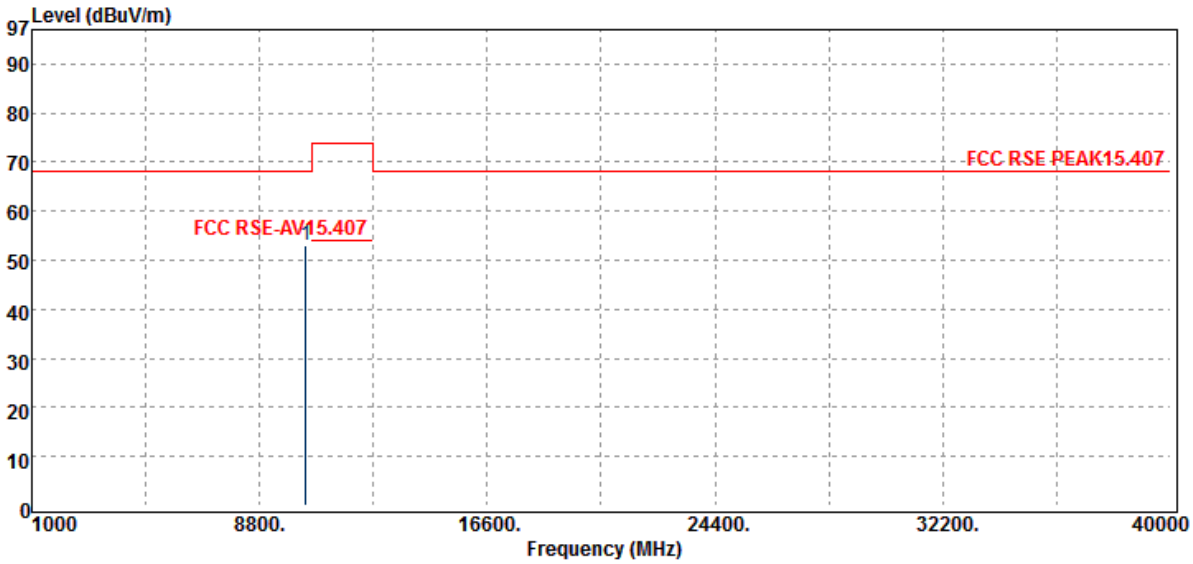
"---" : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	38.58	10.32	48.90	54.00	-5.10
5150.00	E	Peak	60.77	10.32	71.09	74.00	-2.91

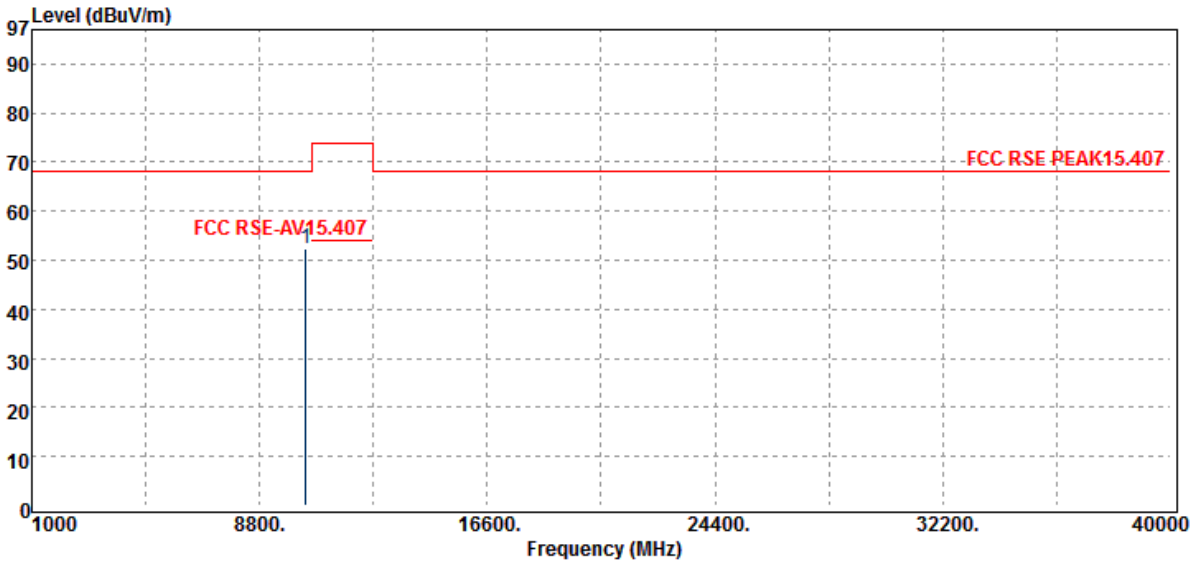
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



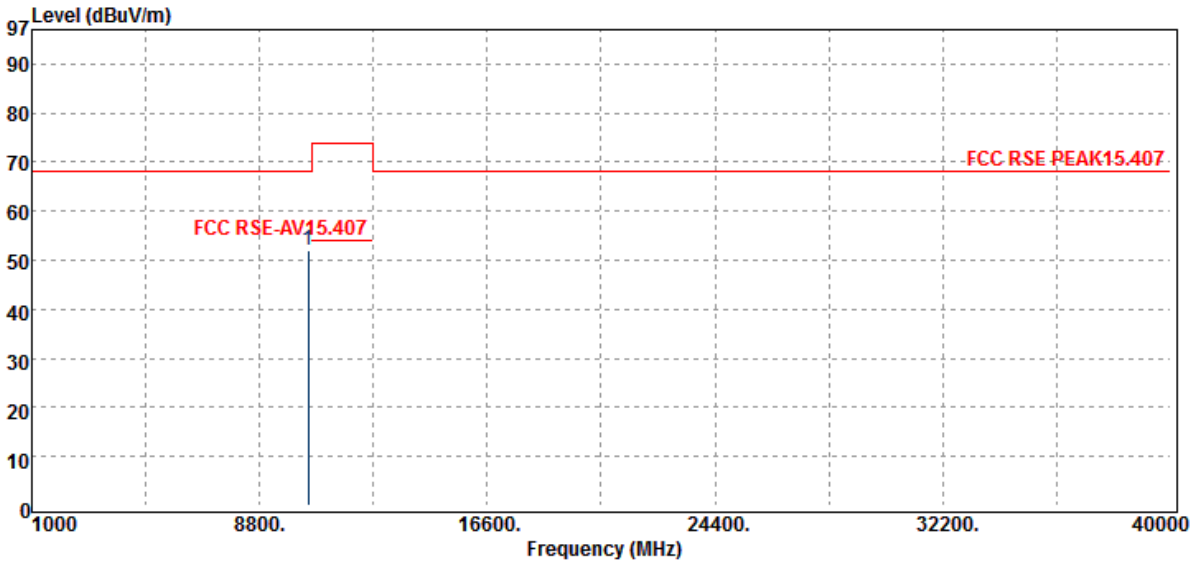
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	H	Peak	35.03	18.00	53.03	68.30	-15.27

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



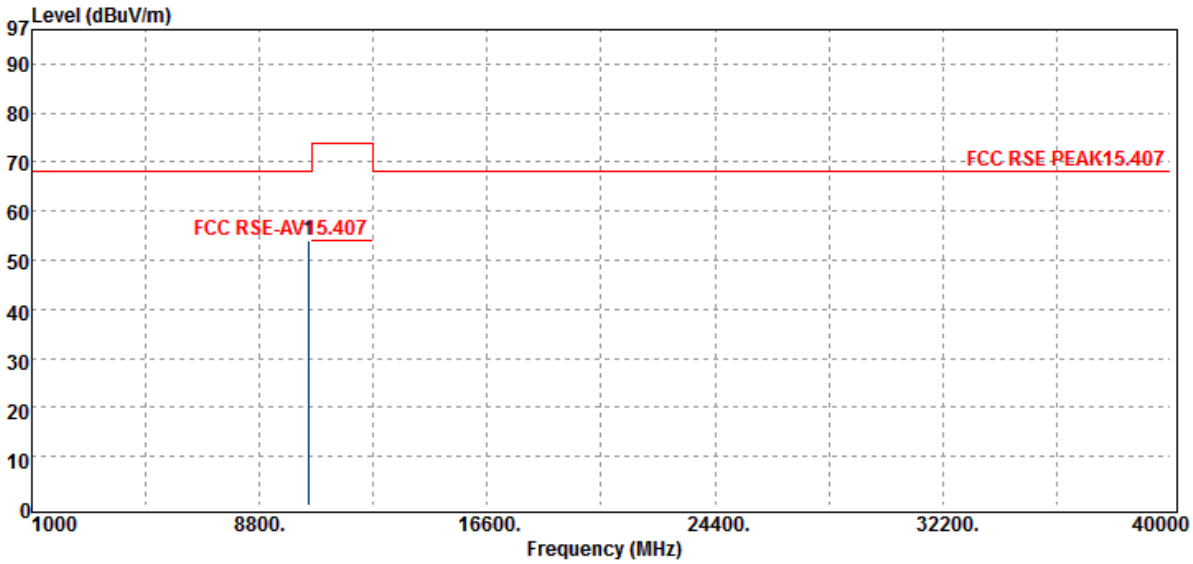
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10380.00	H	Peak	34.22	18.00	52.22	68.30	-16.08

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	33.61	18.36	51.97	68.30	-16.33

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	35.51	18.36	53.87	68.30	-14.43

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

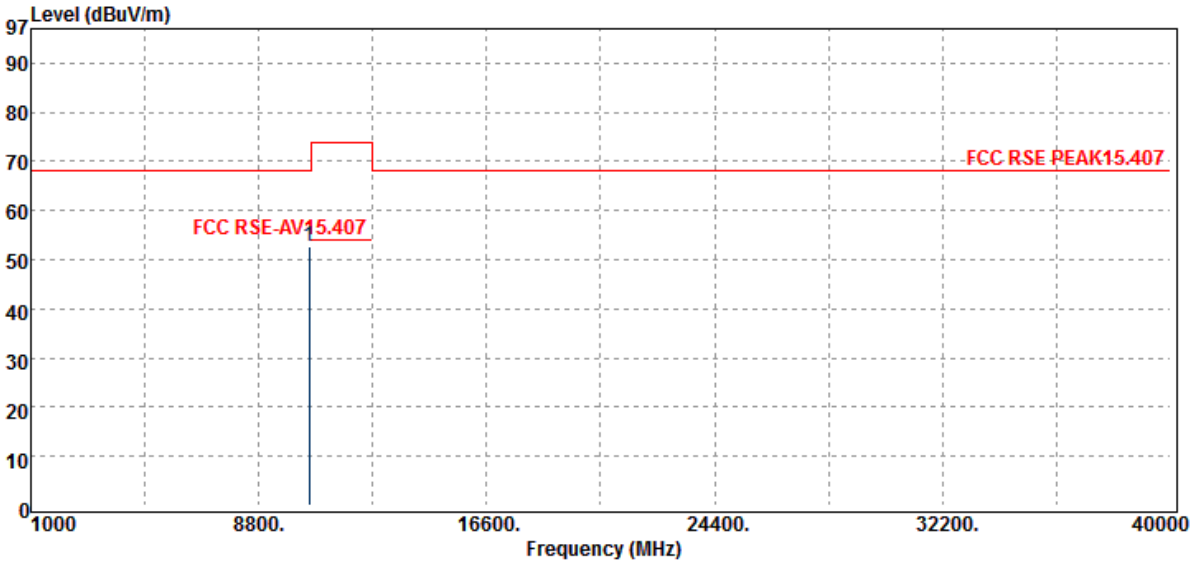
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	37.28	10.32	47.60	54.00	-6.40
5150.00	E	Peak	53.93	10.32	64.25	74.00	-9.75

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	40.62	10.32	50.94	54.00	-3.06
5150.00	E	Peak	62.29	10.32	72.61	74.00	-1.39

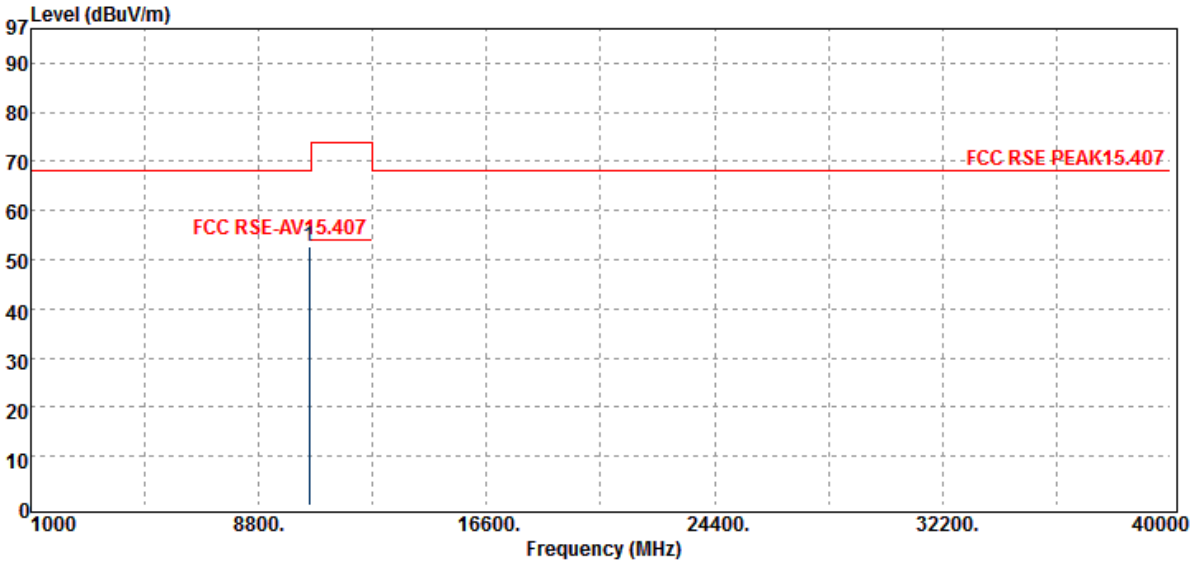
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



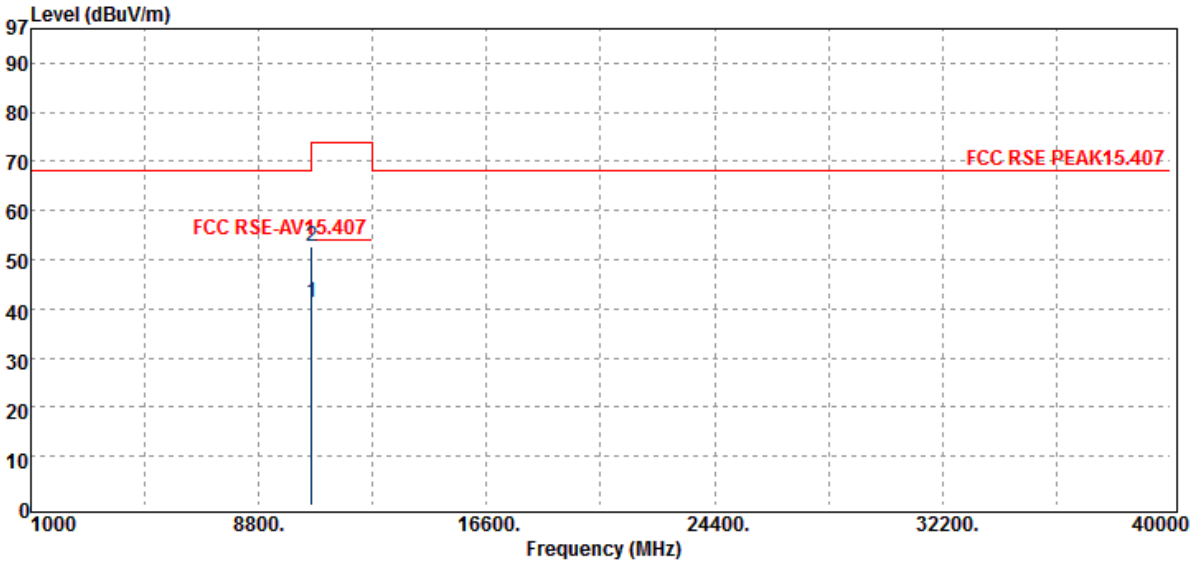
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.42	18.35	52.77	68.30	-15.53

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



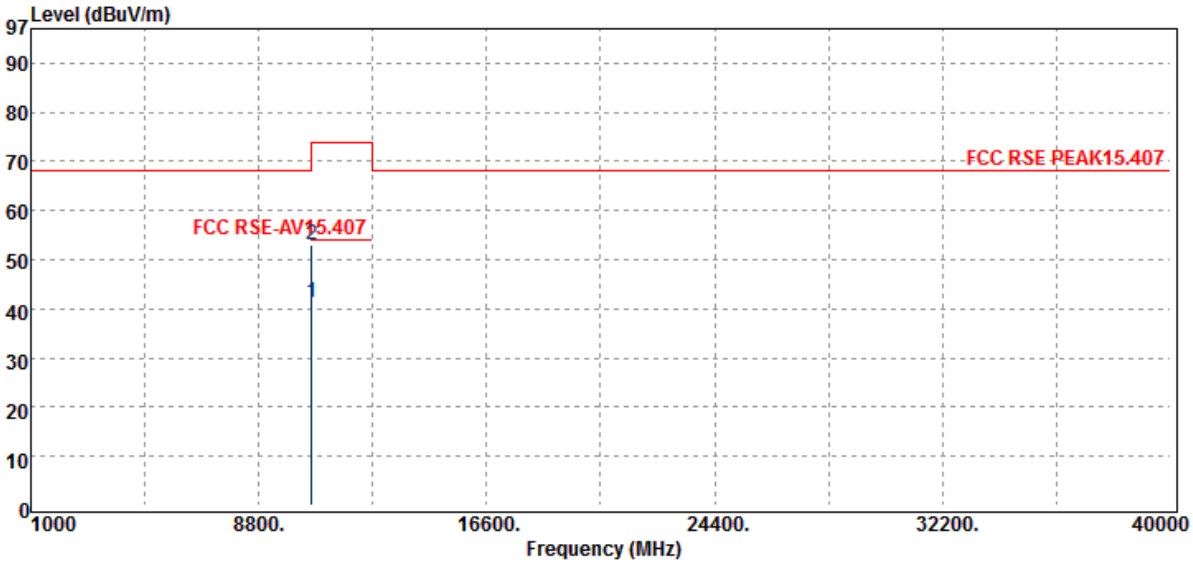
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.34	18.35	52.69	68.30	-15.61

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



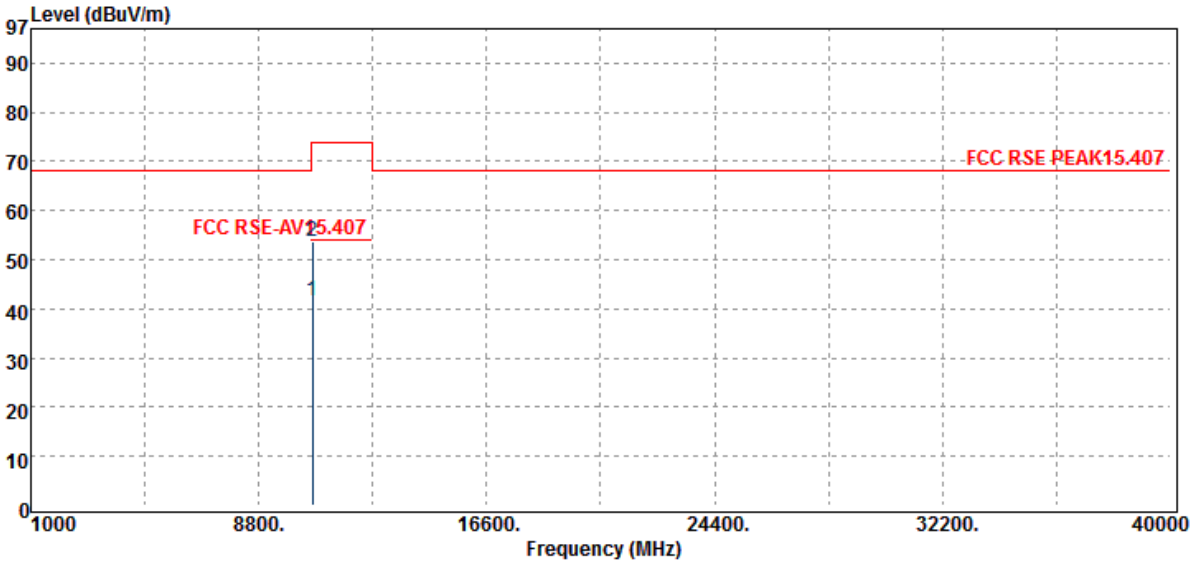
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.48	18.69	41.17	54.00	-12.83
10600.00	H	Peak	34.16	18.69	52.85	74.00	-21.15

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



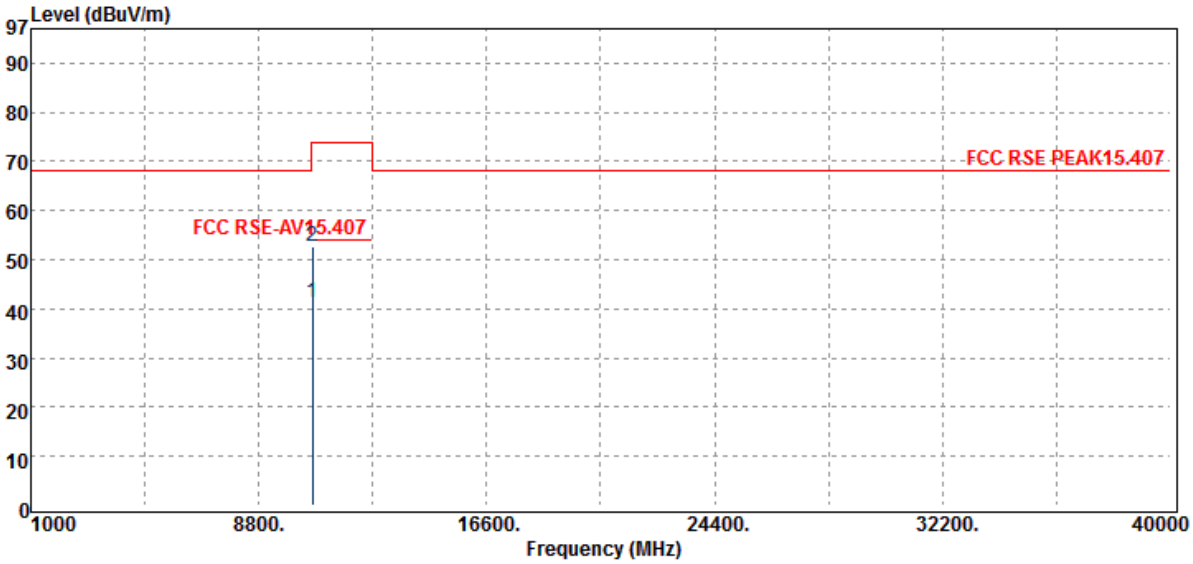
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	22.49	18.69	41.18	54.00	-12.82
10600.00	H	Peak	34.30	18.69	52.99	74.00	-21.01

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	22.51	19.02	41.53	54.00	-12.47
10640.00	H	Peak	34.84	19.02	53.86	74.00	-20.14

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Average	22.40	19.02	41.42	54.00	-12.58
10640.00	H	Peak	33.54	19.02	52.56	74.00	-21.44

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

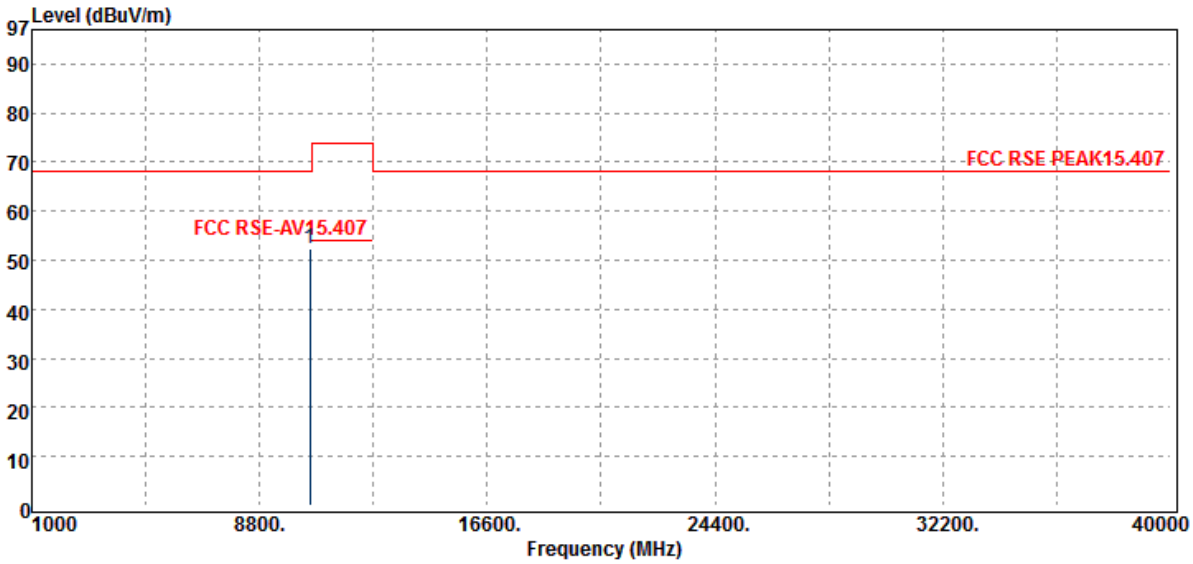
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	37.13	10.97	48.10	54.00	-5.90
5350.00	E	Peak	54.82	10.97	65.79	74.00	-8.21

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	37.02	10.97	47.99	54.00	-6.01
5350.00	E	Peak	55.82	10.97	66.79	74.00	-7.21

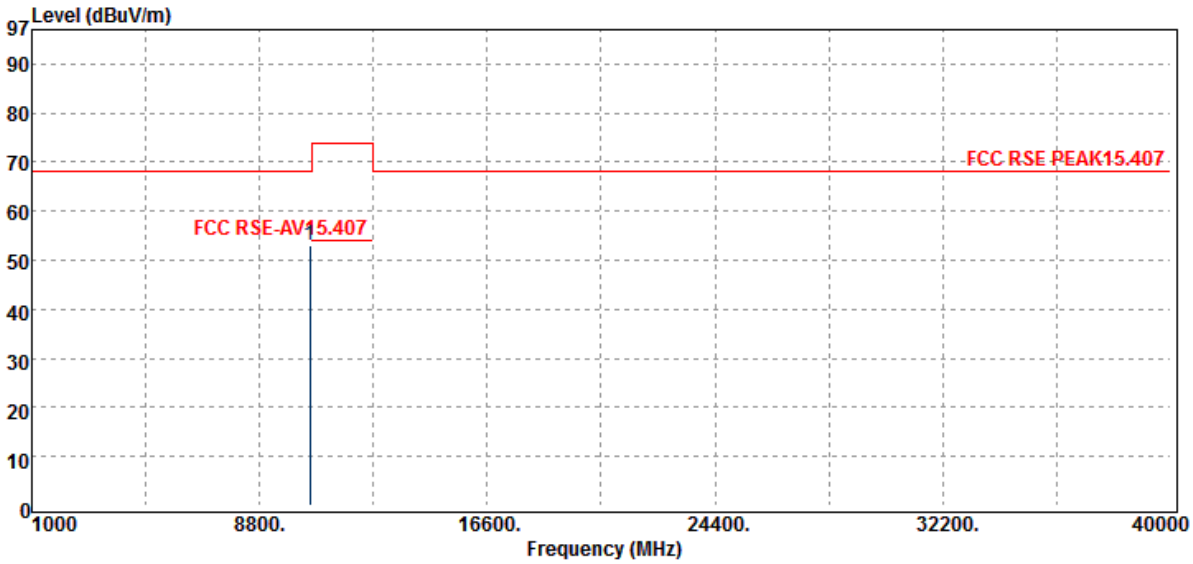
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



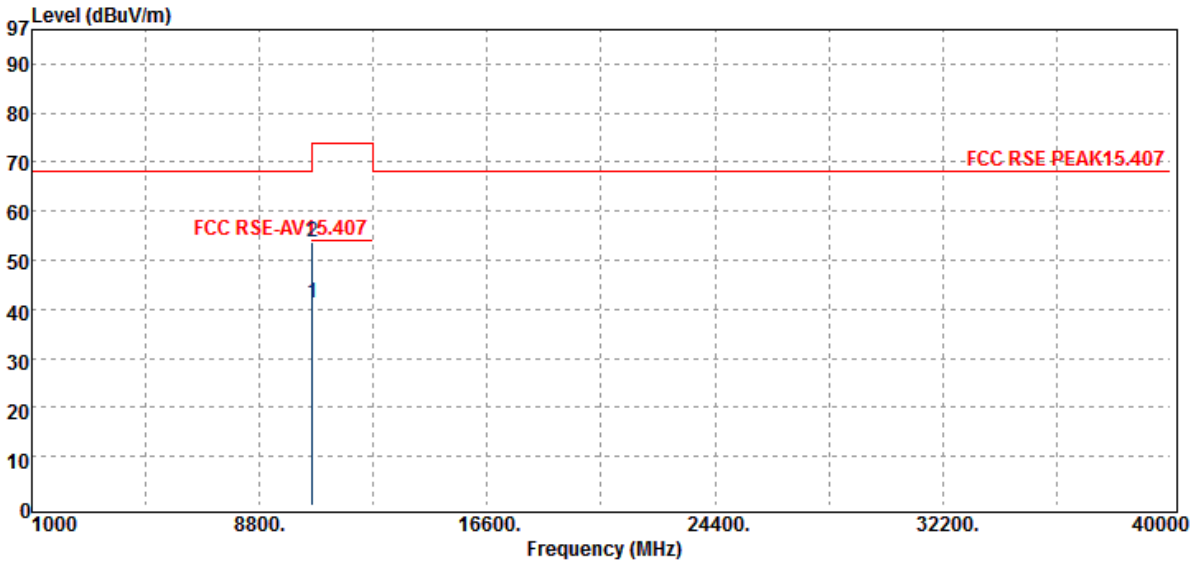
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.08	18.35	52.43	68.30	-15.87

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



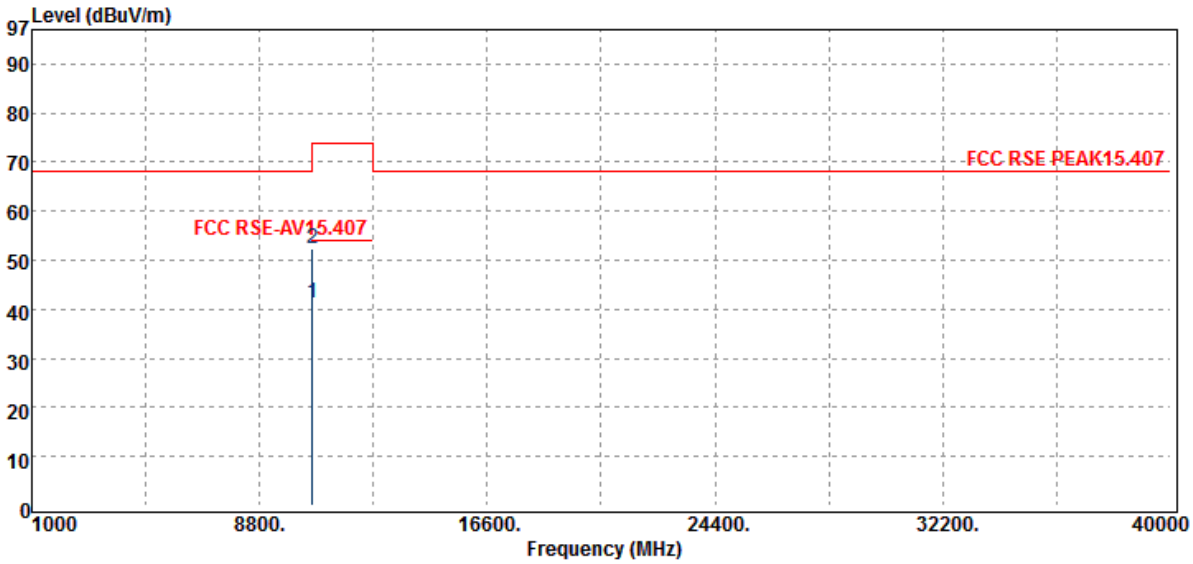
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.66	18.35	53.01	68.30	-15.29

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



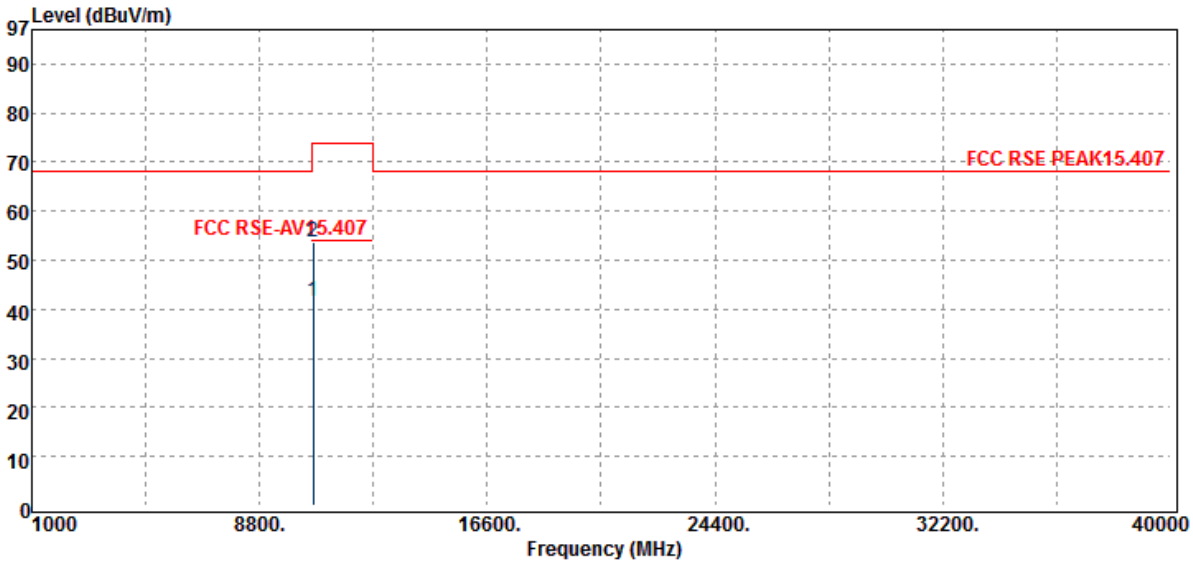
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.56	18.69	41.25	54.00	-12.75
10600.00	H	Peak	34.90	18.69	53.59	74.00	-20.41

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



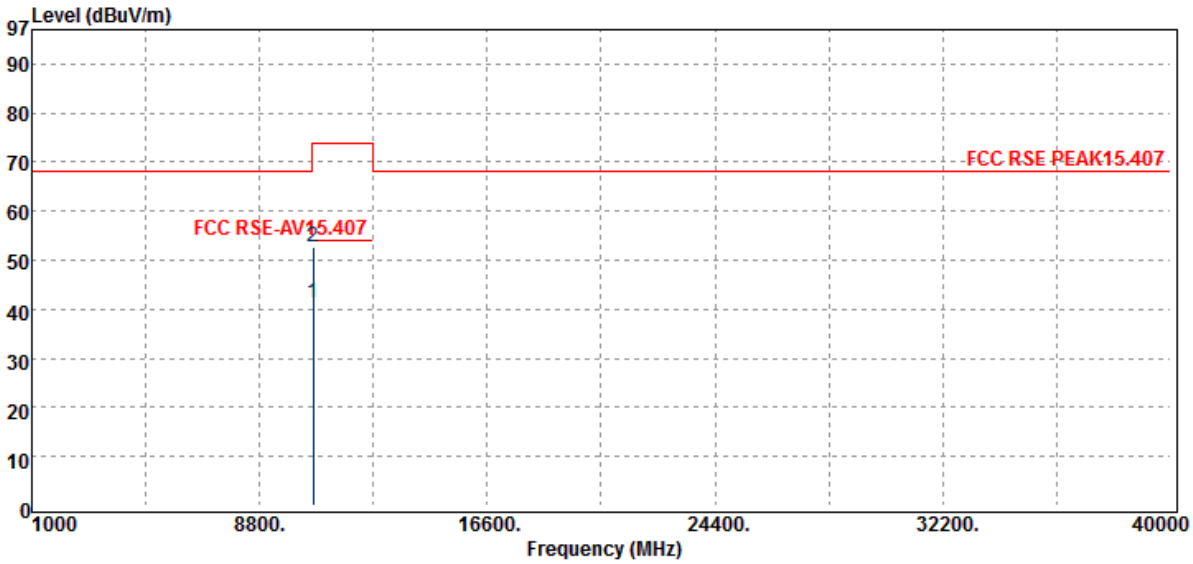
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10600.00	H	Average	22.49	18.69	41.18	54.00	-12.82
10600.00	H	Peak	33.61	18.69	52.30	74.00	-21.70

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	22.58	19.02	41.60	54.00	-12.40
10640.00	H	Peak	34.66	19.02	53.68	74.00	-20.32

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Average	22.42	19.02	41.44	54.00	-12.56
10640.00	H	Peak	33.79	19.02	52.81	74.00	-21.19

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

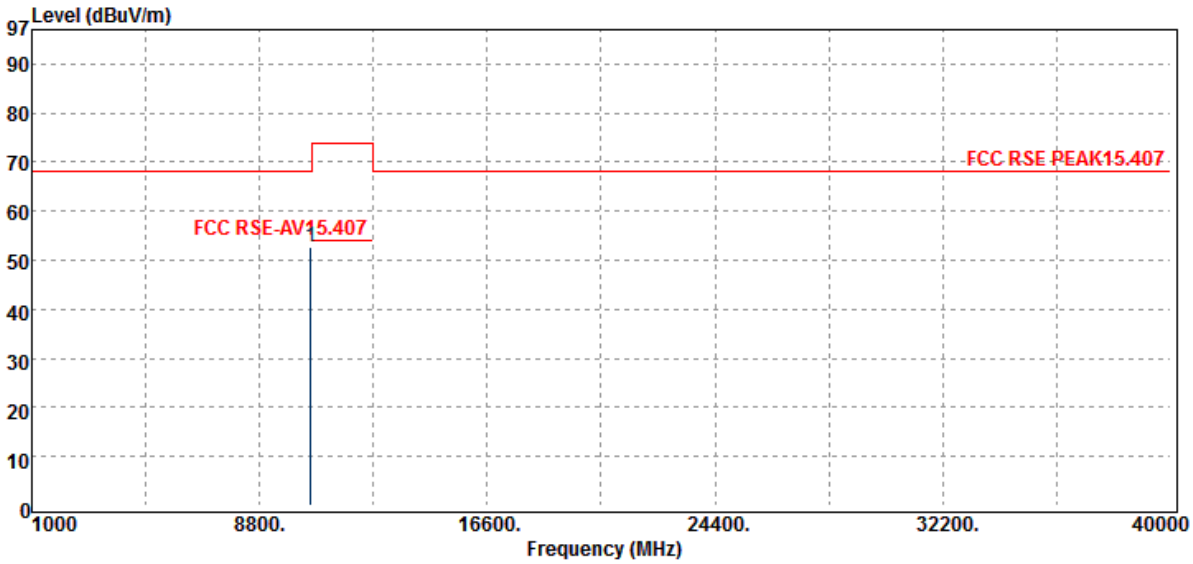
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	37.95	10.97	48.92	54.00	-5.08
5350.00	E	Peak	53.92	10.97	64.89	74.00	-9.11

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	39.05	10.97	50.02	54.00	-3.98
5350.00	E	Peak	58.13	10.97	69.10	74.00	-4.90

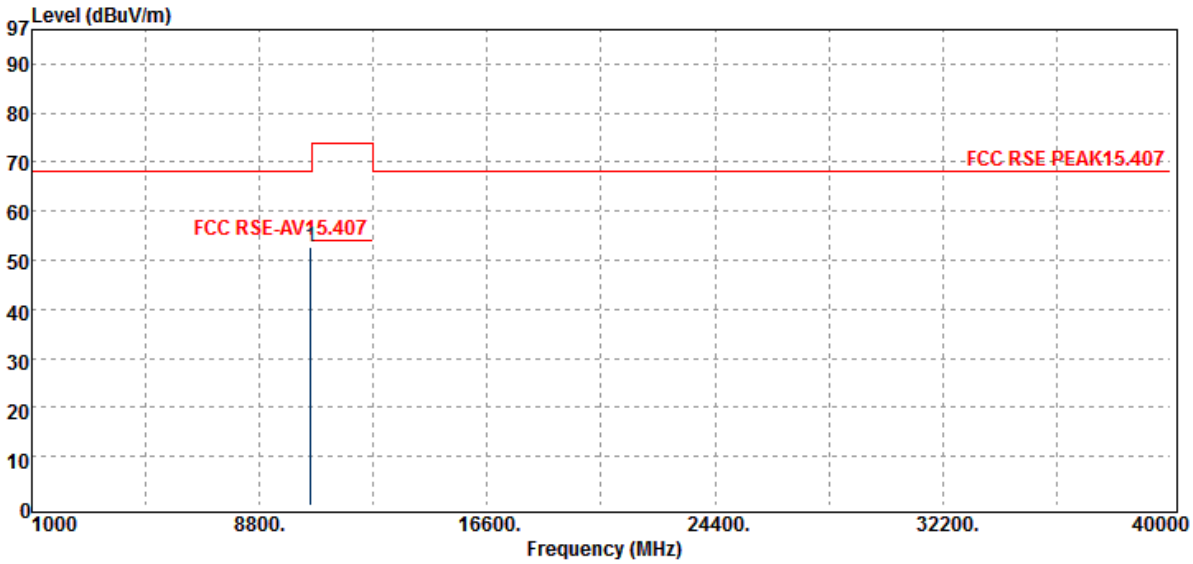
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



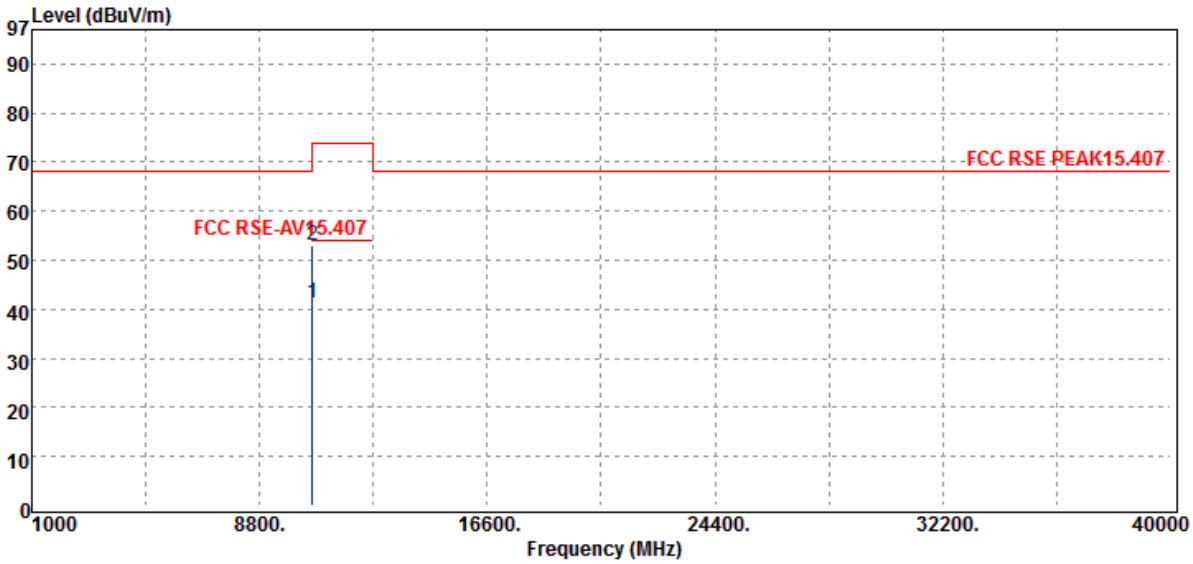
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	34.37	18.45	52.82	68.30	-15.48

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



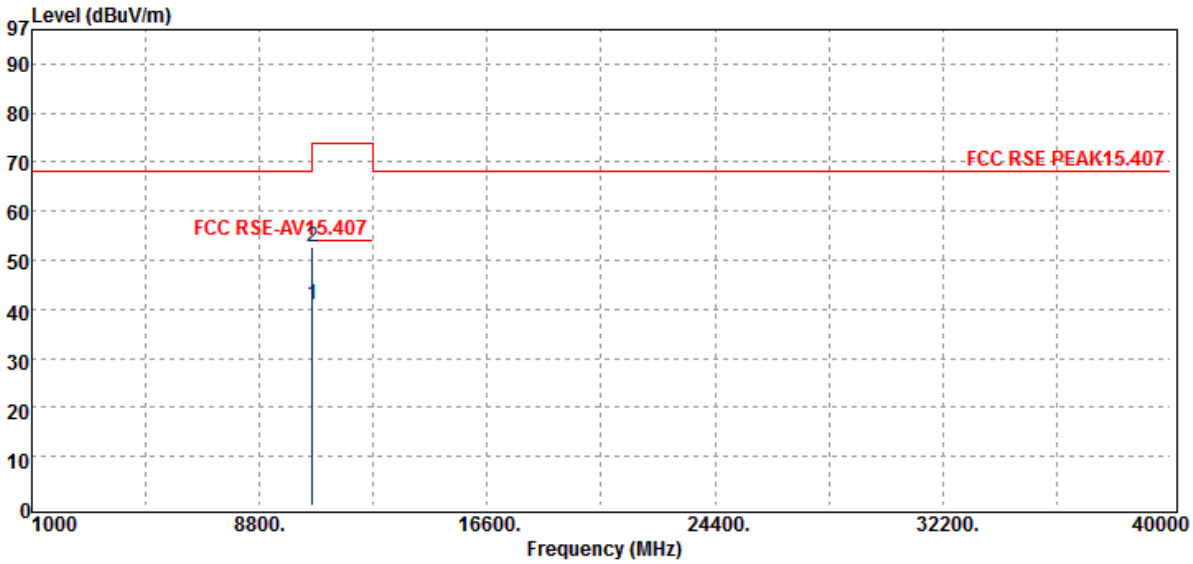
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	34.13	18.45	52.58	68.30	-15.72

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	H	Average	22.33	18.86	41.19	54.00	-12.81
10620.00	H	Peak	34.24	18.86	53.10	74.00	-20.90

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	H	Average	22.25	18.86	41.11	54.00	-12.89
10620.00	H	Peak	33.95	18.86	52.81	74.00	-21.19

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

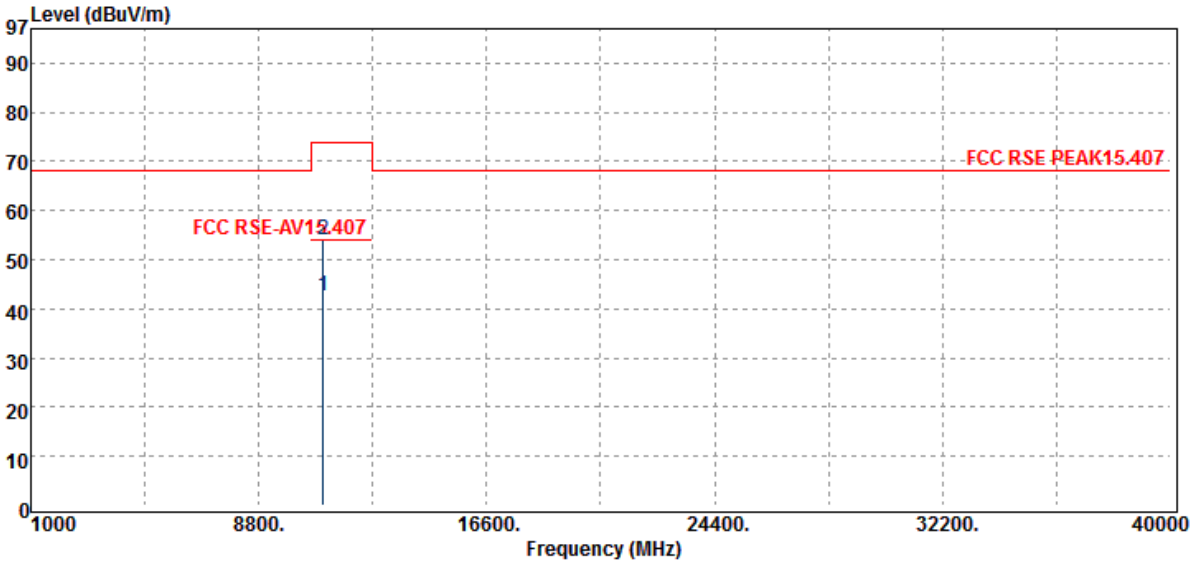
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	39.42	10.97	50.39	54.00	-3.61
5350.00	E	Peak	56.18	10.97	67.15	74.00	-6.85

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	42.51	10.97	53.48	54.00	-0.52
5350.00	E	Peak	62.20	10.97	73.17	74.00	-0.83

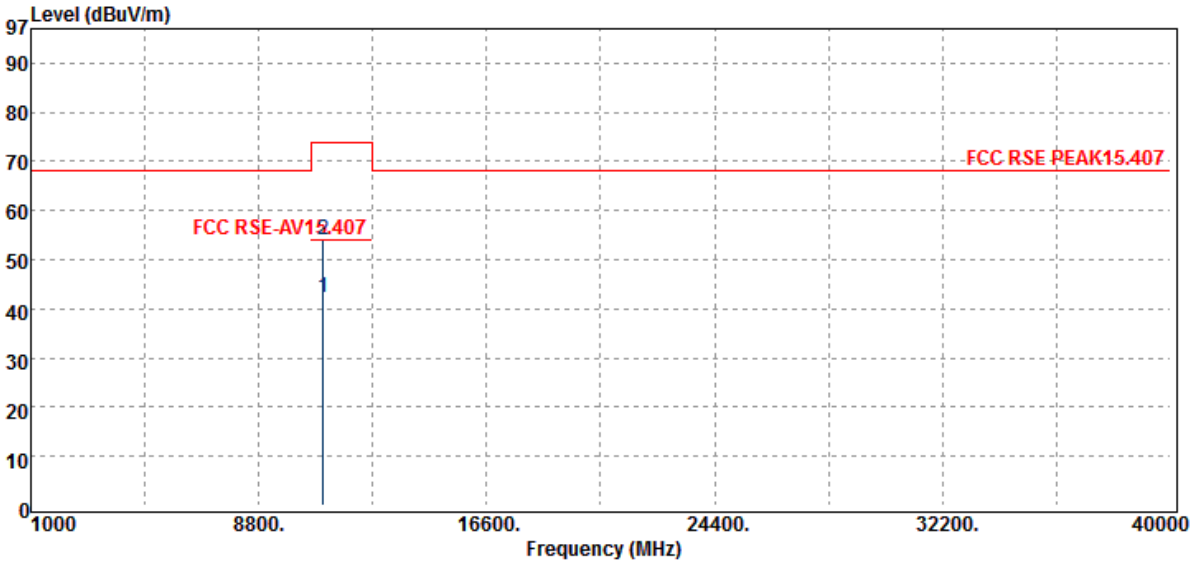
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



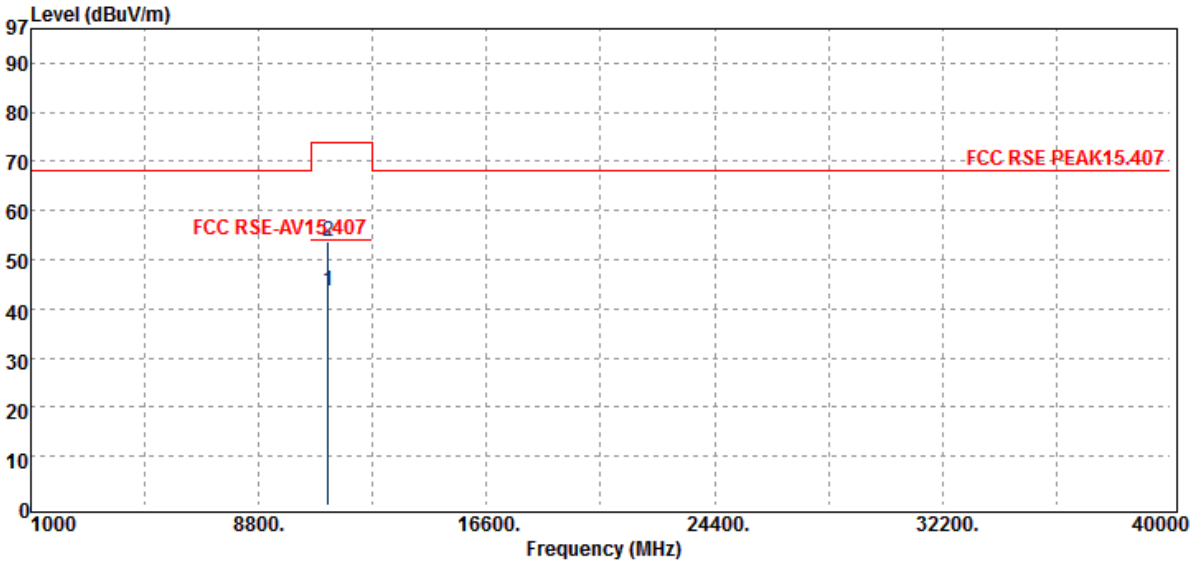
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.97	19.82	42.79	54.00	-11.21
11000.00	H	Peak	34.08	19.82	53.90	74.00	-20.10

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



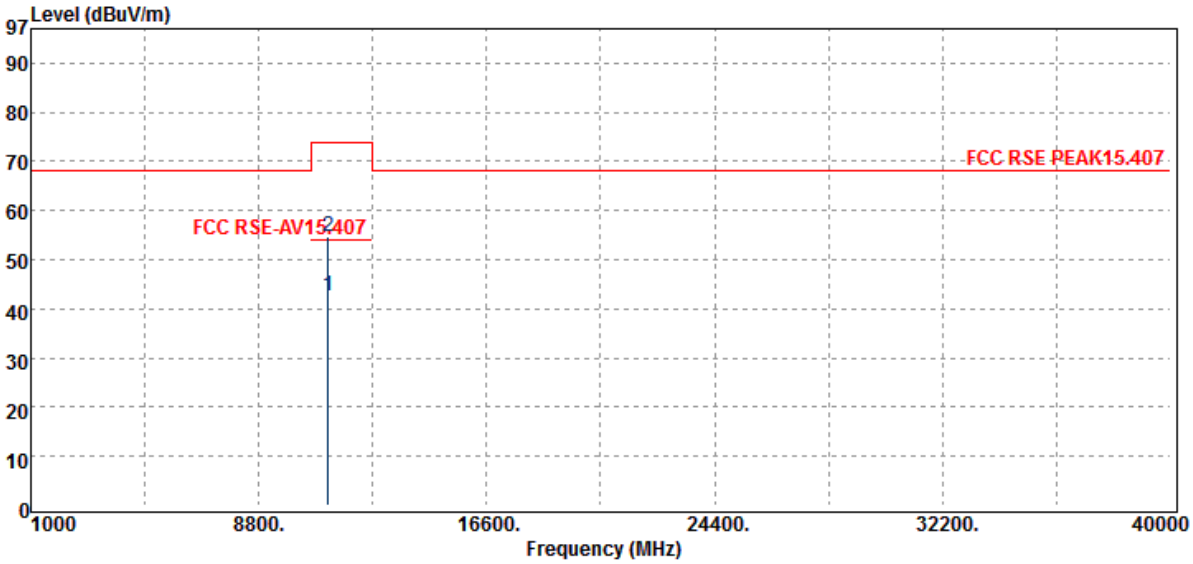
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.34	19.82	42.16	54.00	-11.84
11000.00	H	Peak	34.06	19.82	53.88	74.00	-20.12

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



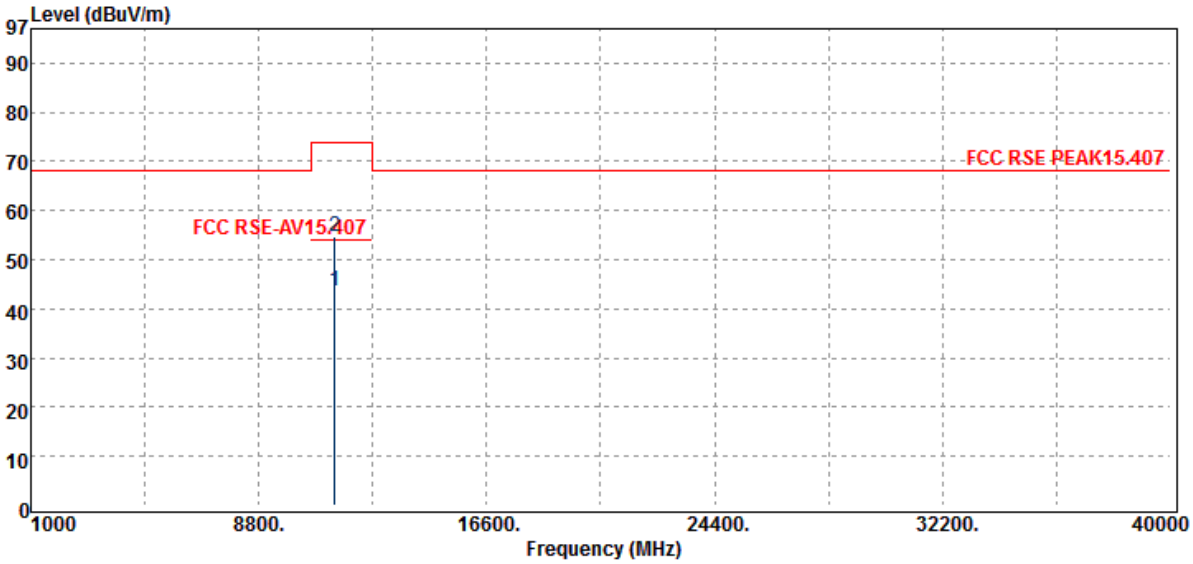
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	23.27	20.21	43.48	54.00	-10.52
11160.00	H	Peak	33.50	20.21	53.71	74.00	-20.29

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



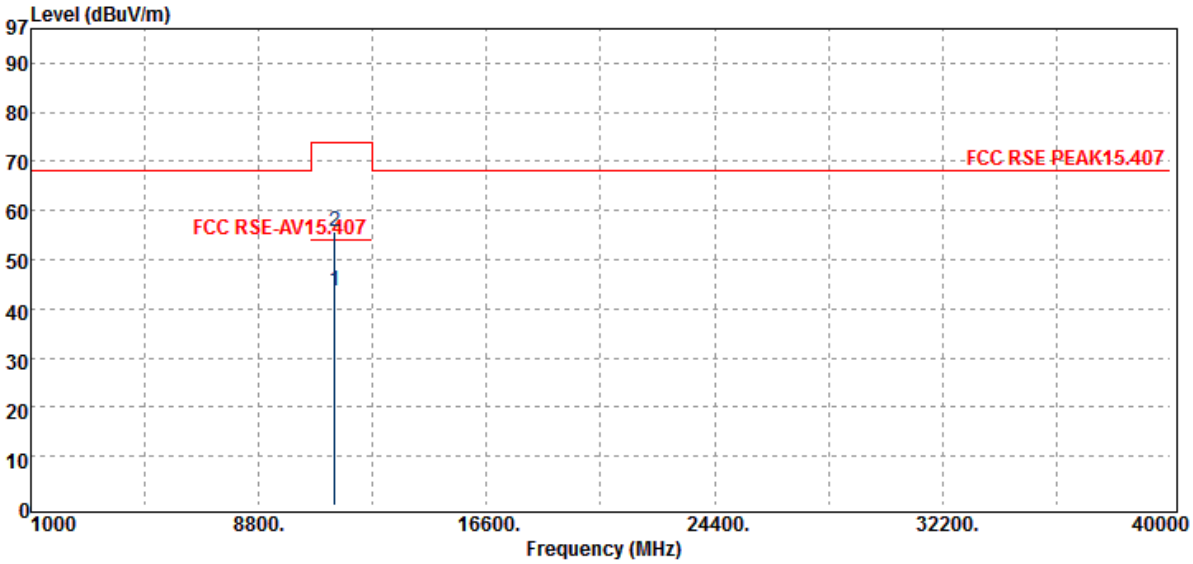
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	22.53	20.21	42.74	54.00	-11.26
11160.00	H	Peak	34.40	20.21	54.61	74.00	-19.39

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	23.11	20.65	43.76	54.00	-10.24
11400.00	H	Peak	34.00	20.65	54.65	74.00	-19.35

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.94	20.65	43.59	54.00	-10.41
11400.00	H	Peak	35.04	20.65	55.69	74.00	-18.31

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Average	34.15	10.89	45.04	54.00	-8.96
5460.00	E	Peak	51.10	10.89	61.99	74.00	-12.01
5470.00	E	Average	37.16	10.91	48.07	54.00	-5.93
5470.00	E	Peak	58.51	10.91	69.42	74.00	-4.58

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Average	33.43	10.89	44.32	54.00	-9.68
5460.00	E	Peak	50.62	10.89	61.51	74.00	-12.49
5470.00	E	Average	37.96	10.91	48.87	54.00	-5.13
5470.00	E	Peak	59.35	10.91	70.26	74.00	-3.74

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

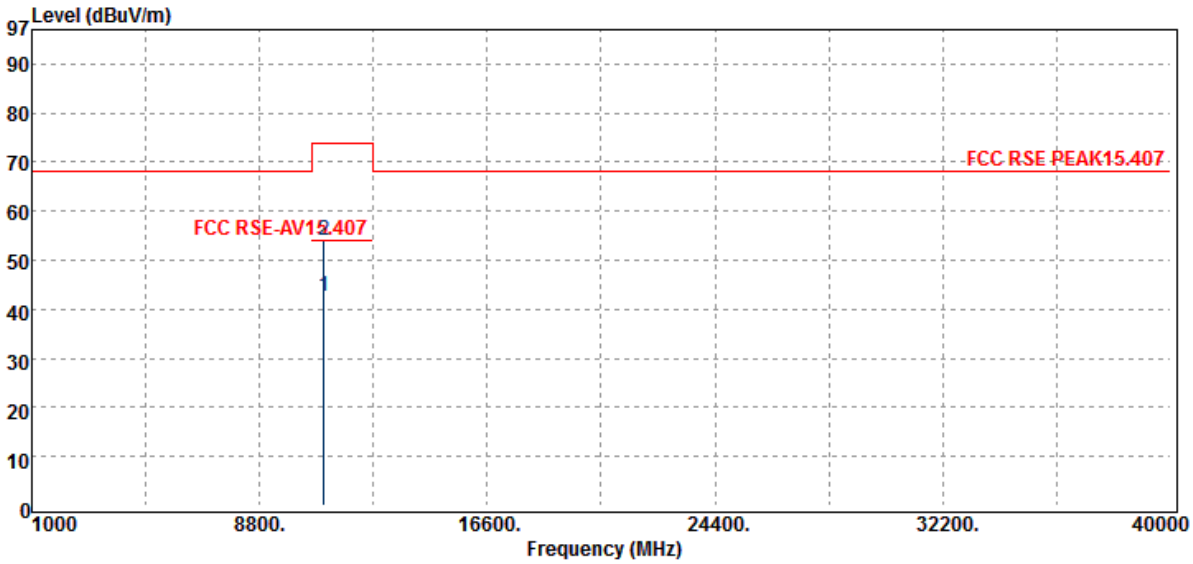
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Average	42.41	11.04	53.45	54.00	-0.55
5725.00	E	Peak	59.71	11.04	70.75	74.00	-3.25
5727.08	S	Average	40.70	11.05	51.75	54.00	-2.25

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Average	39.21	11.04	50.25	54.00	-3.75
5725.00	E	Peak	57.06	11.04	68.10	74.00	-5.90

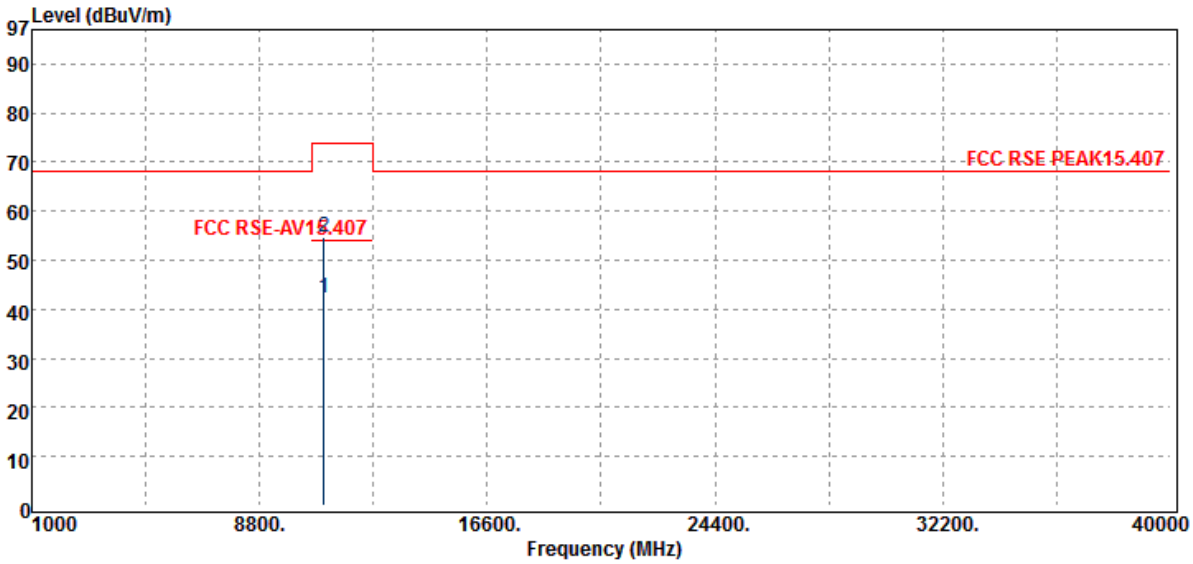
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



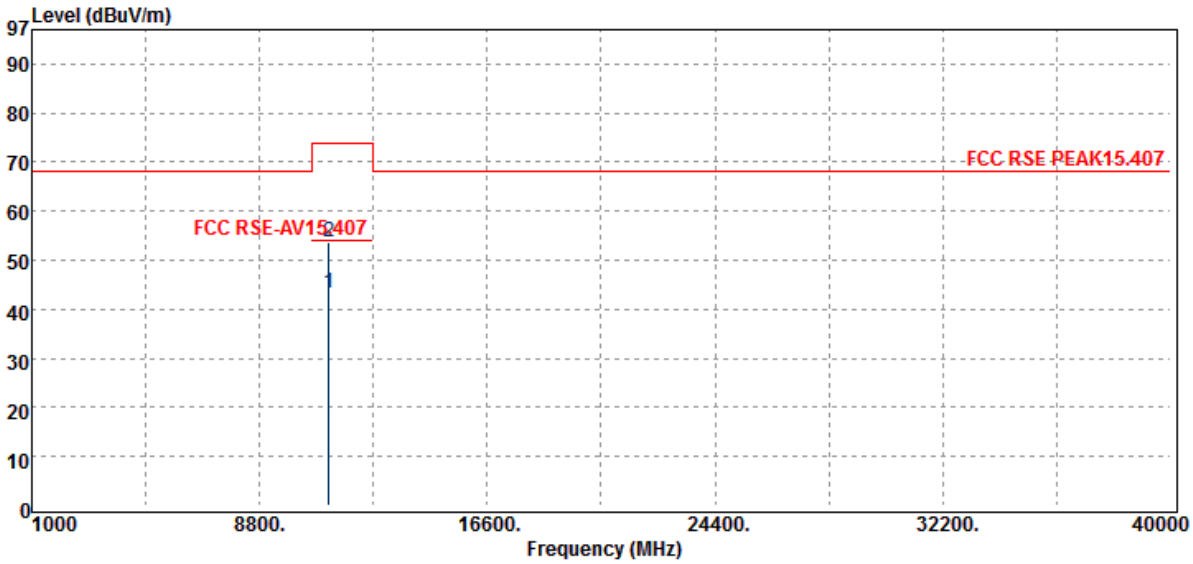
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.70	19.82	42.52	54.00	-11.48
11000.00	H	Peak	34.17	19.82	53.99	74.00	-20.01

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	H	Average	22.39	19.82	42.21	54.00	-11.79
11000.00	H	Peak	35.05	19.82	54.87	74.00	-19.13

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

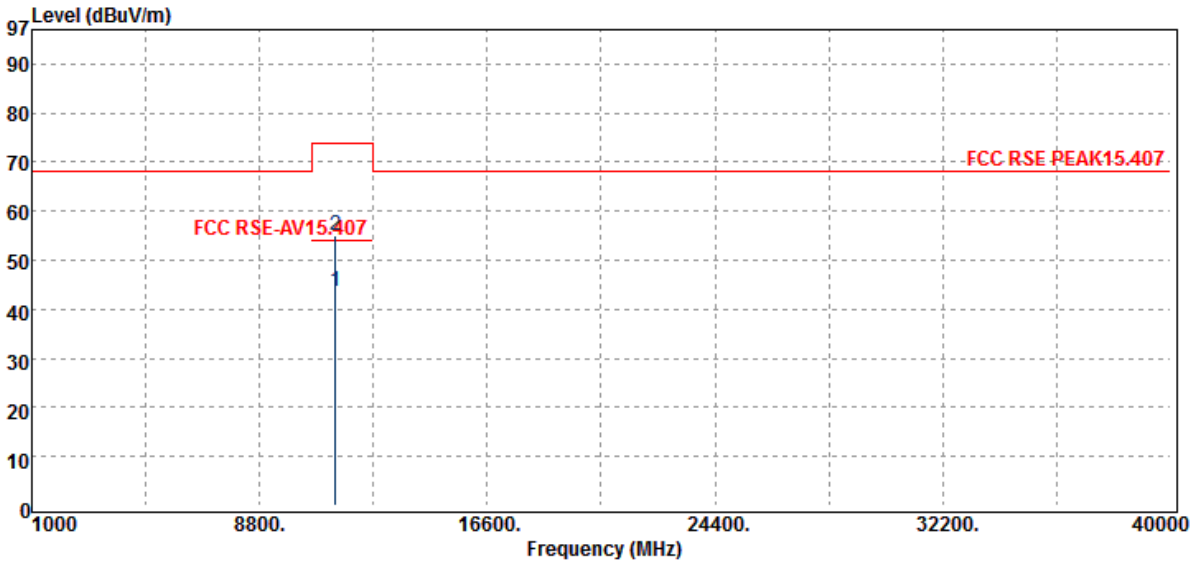


Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	23.21	20.21	43.42	54.00	-10.58
11160.00	H	Peak	33.58	20.21	53.79	74.00	-20.21

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

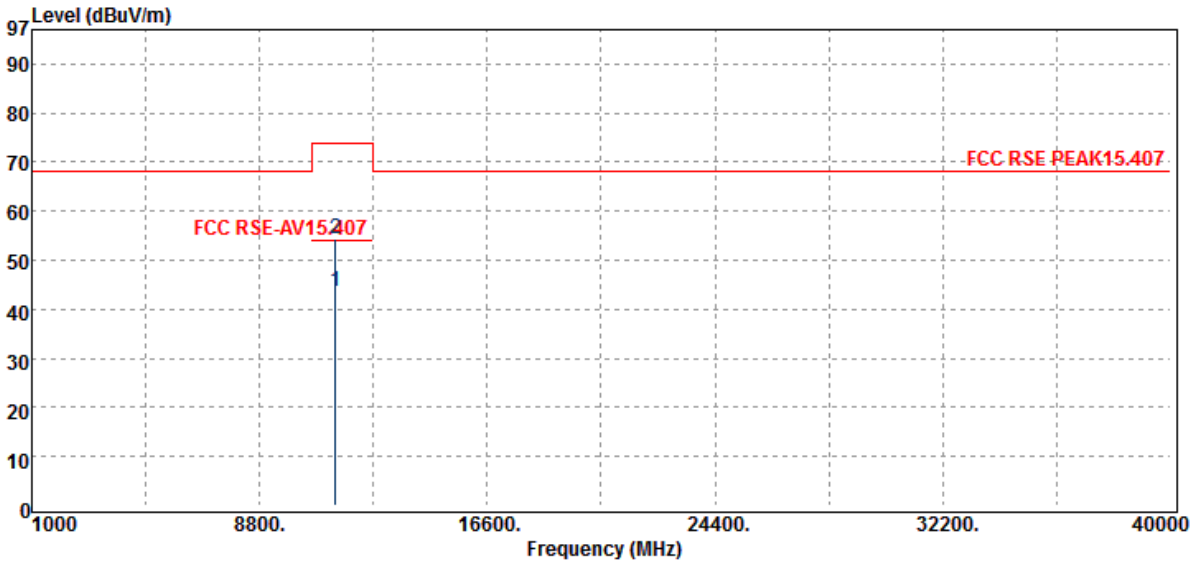
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	22.53	20.21	42.74	54.00	-11.26
11160.00	H	Peak	33.82	20.21	54.03	74.00	-19.97

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	23.12	20.65	43.77	54.00	-10.23
11400.00	H	Peak	34.25	20.65	54.90	74.00	-19.10

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.85	20.65	43.50	54.00	-10.50
11400.00	H	Peak	33.65	20.65	54.30	74.00	-19.70

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	34.36	10.89	45.25	54.00	-8.75
5460.00	E	Peak	51.49	10.89	62.38	74.00	-11.62
5470.00	E	Average	38.25	10.91	49.16	54.00	-4.84
5470.00	E	Peak	61.67	10.91	72.58	74.00	-1.42

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	34.93	10.89	45.82	54.00	-8.18
5460.00	E	Peak	52.59	10.89	63.48	74.00	-10.52
5470.00	E	Average	34.90	10.91	45.81	54.00	-8.19
5470.00	E	Peak	59.76	10.91	70.67	74.00	-3.33

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

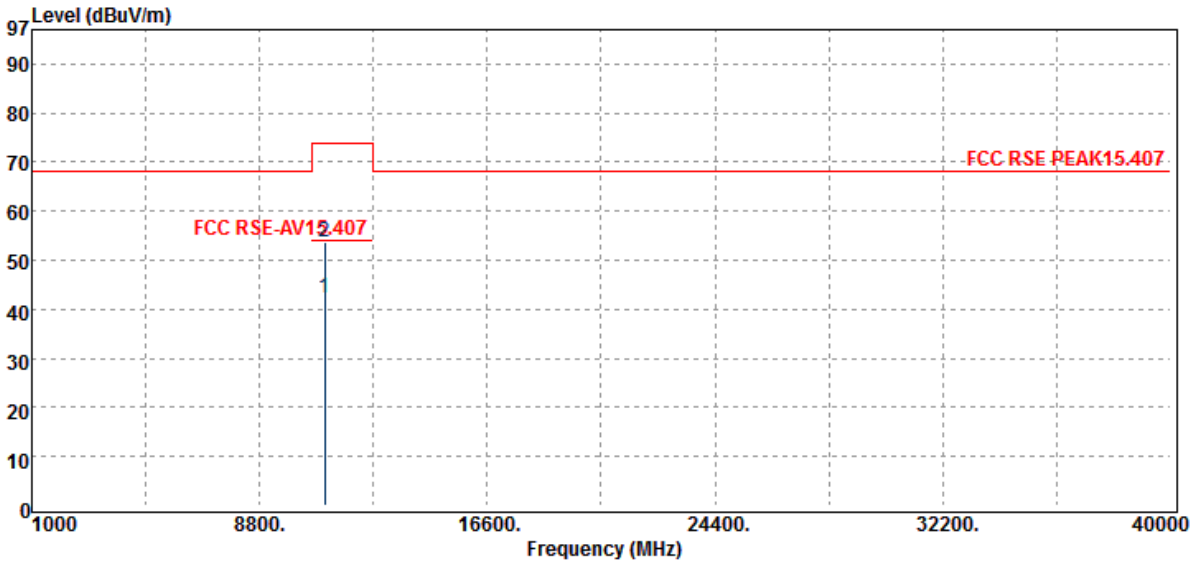
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Average	42.34	11.04	53.38	54.00	-0.62
5725.00	E	Peak	61.55	11.04	72.59	74.00	-1.41

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Average	38.66	11.04	49.70	54.00	-4.30
5725.00	E	Peak	57.90	11.04	68.94	74.00	-5.06

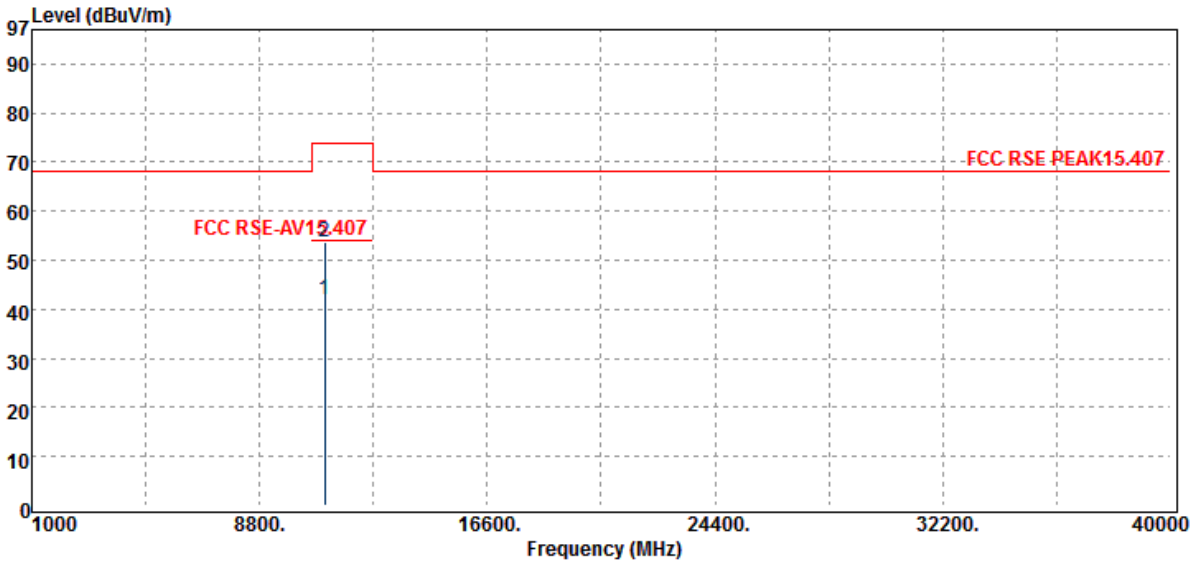
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



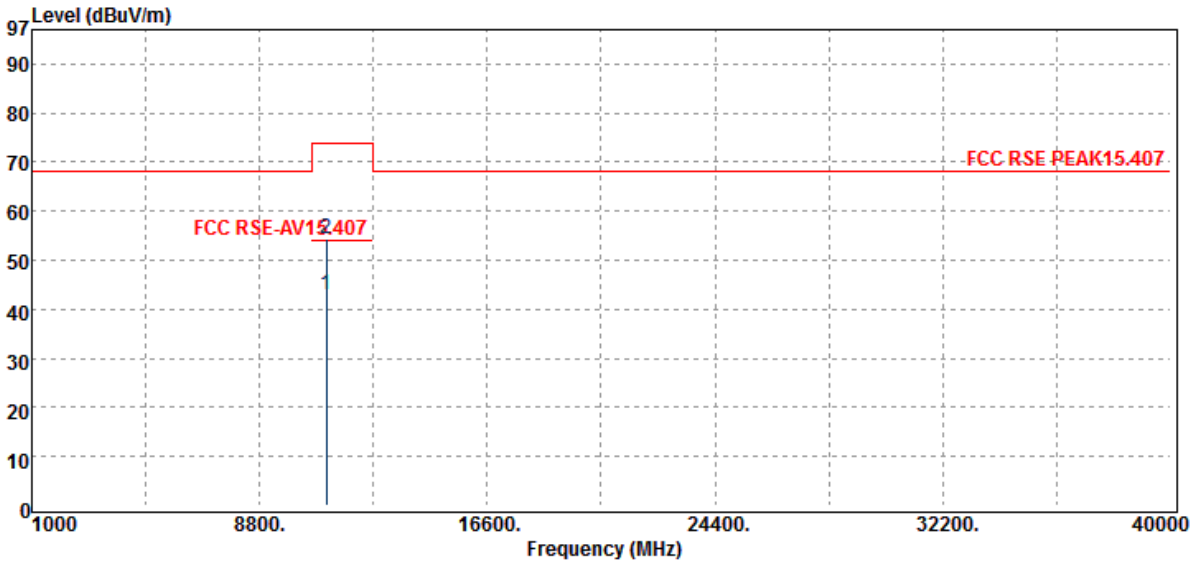
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	H	Average	22.36	19.81	42.17	54.00	-11.83
11020.00	H	Peak	33.98	19.81	53.79	74.00	-20.21

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



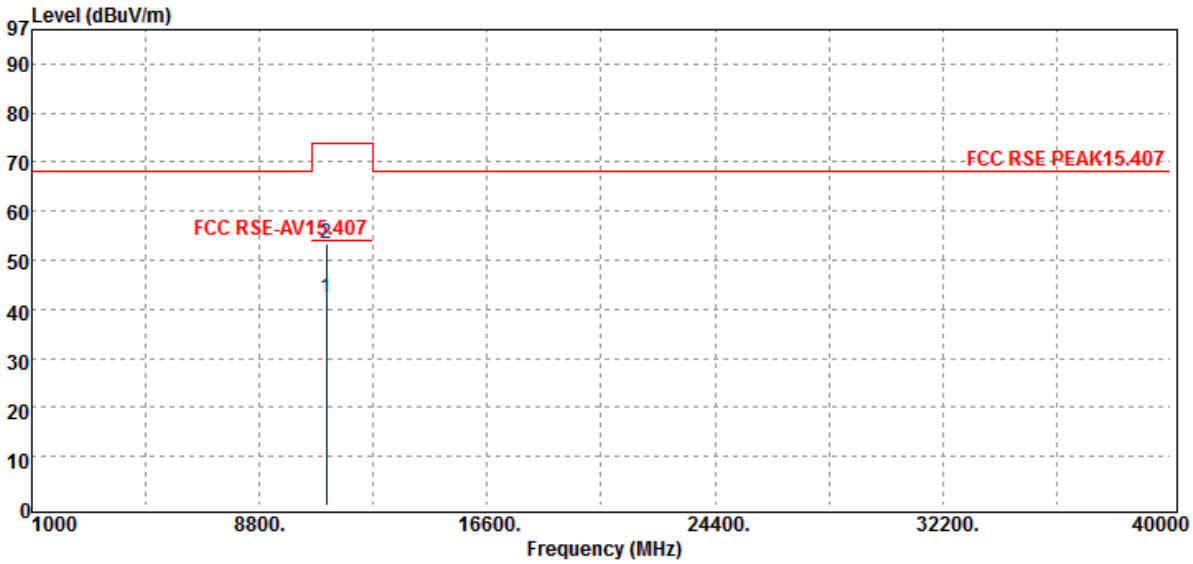
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	H	Average	22.27	19.81	42.08	54.00	-11.92
11020.00	H	Peak	33.75	19.81	53.56	74.00	-20.44

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



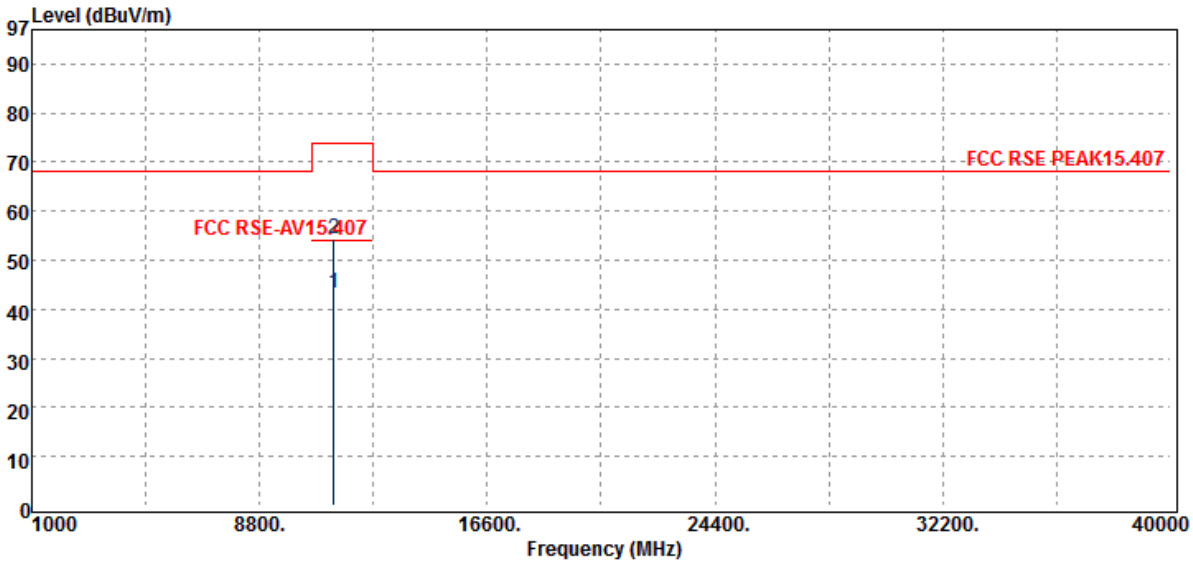
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	22.87	20.23	43.10	54.00	-10.90
11100.00	H	Peak	34.06	20.23	54.29	74.00	-19.71

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



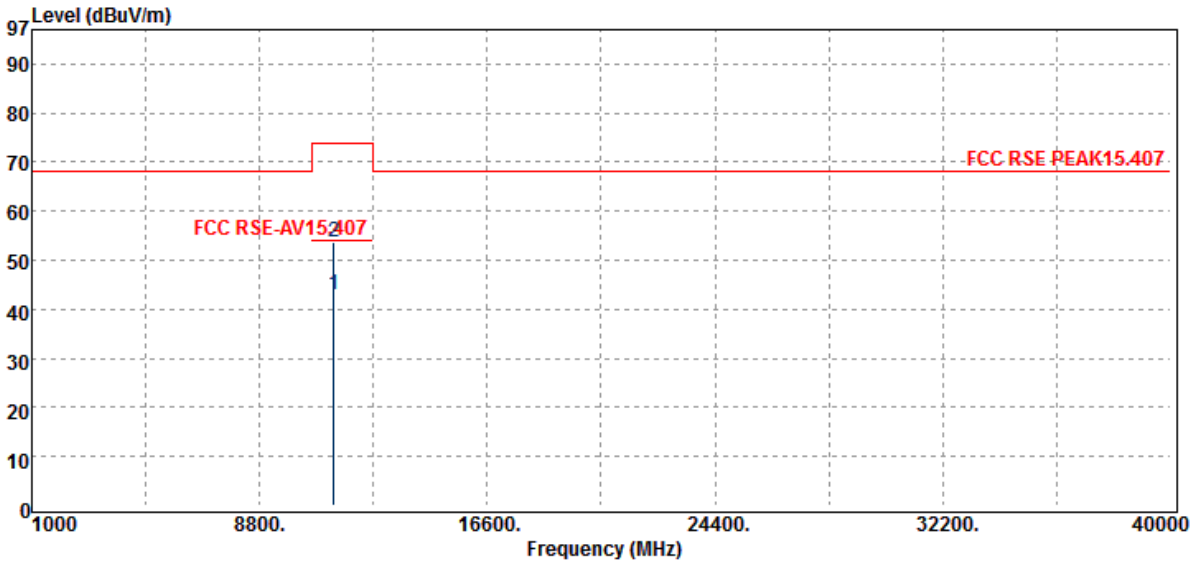
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	22.15	20.23	42.38	54.00	-11.62
11100.00	H	Peak	33.27	20.23	53.50	74.00	-20.50

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	H	Average	22.78	20.64	43.42	54.00	-10.58
11340.00	H	Peak	33.76	20.64	54.40	74.00	-19.60

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	H	Average	22.31	20.64	42.95	54.00	-11.05
11340.00	H	Peak	33.00	20.64	53.64	74.00	-20.36

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	36.34	10.89	47.23	54.00	-6.77
5460.00	E	Peak	54.26	10.89	65.15	74.00	-8.85
5470.00	E	Average	42.42	10.91	53.33	54.00	-0.67
5470.00	E	Peak	61.33	10.91	72.24	74.00	-1.76

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	36.48	10.89	47.37	54.00	-6.63
5460.00	E	Peak	54.01	10.89	64.90	74.00	-9.10
5470.00	E	Average	42.27	10.91	53.18	54.00	-0.82
5470.00	E	Peak	61.29	10.91	72.20	74.00	-1.80

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

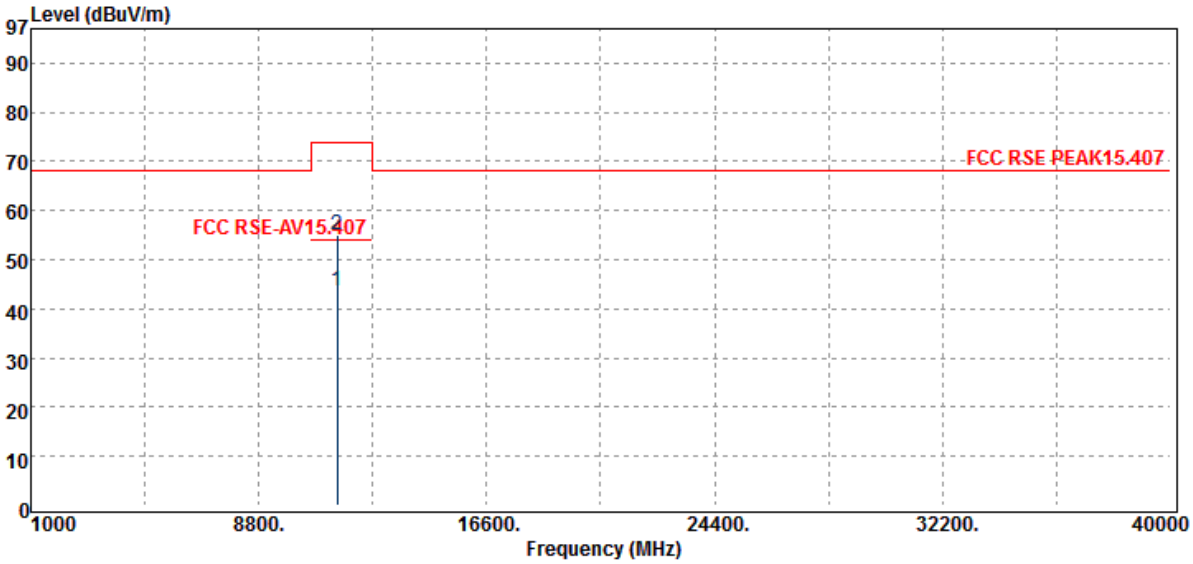
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	42.16	11.04	53.20	54.00	-0.80
5725.00	E	Peak	58.32	11.04	69.36	74.00	-4.64

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	38.45	11.04	49.49	54.00	-4.51
5725.00	E	Peak	56.21	11.04	67.25	74.00	-6.75

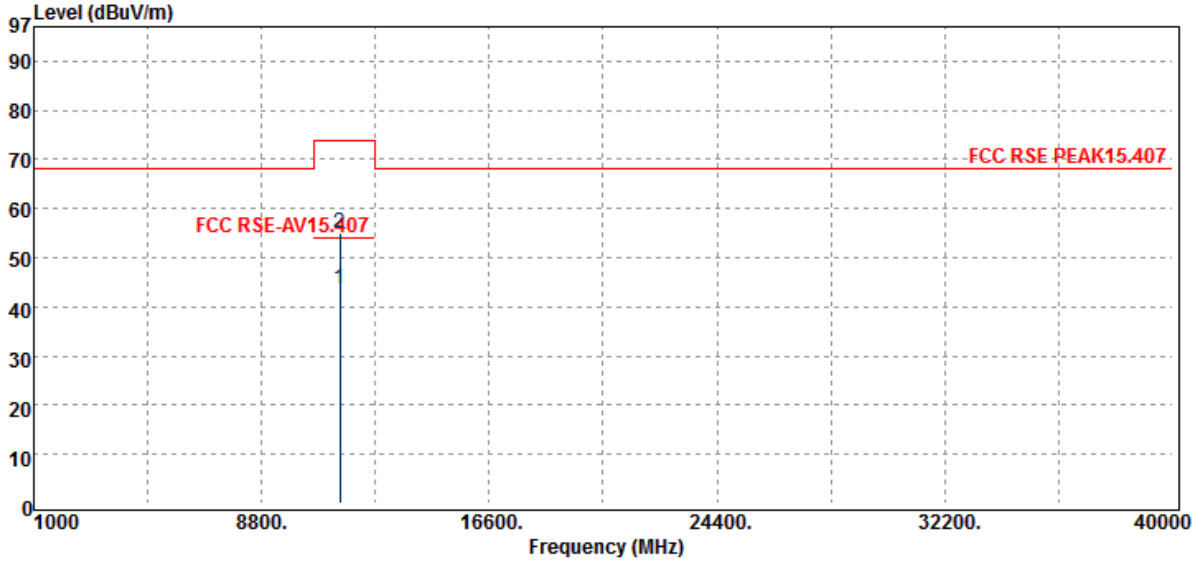
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



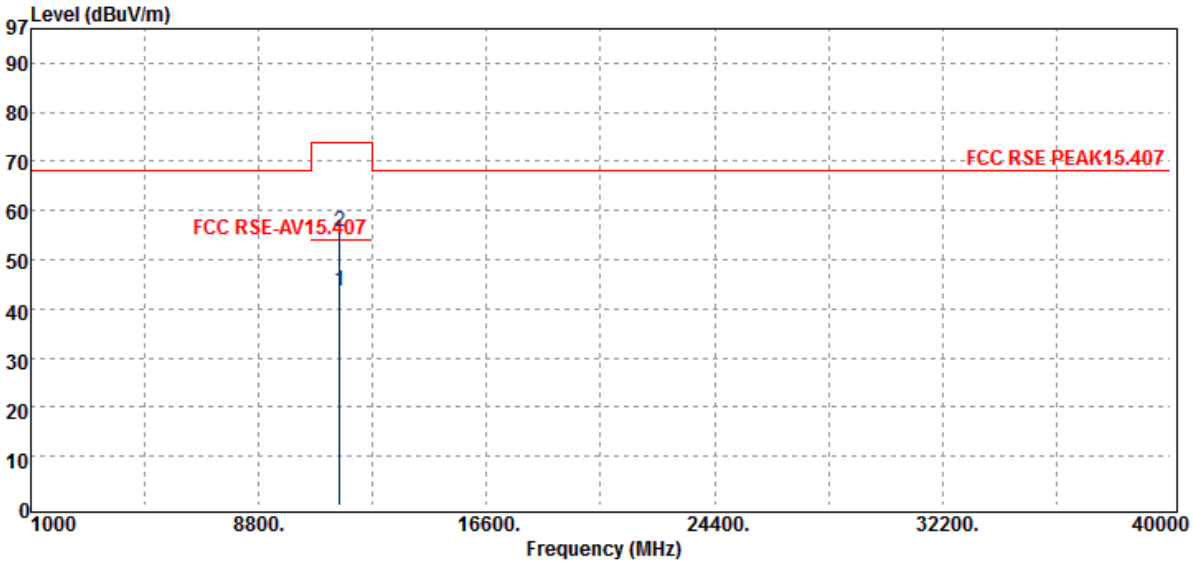
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	22.81	20.81	43.62	54.00	-10.38
11490.00	H	Peak	34.23	20.81	55.04	74.00	-18.96

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



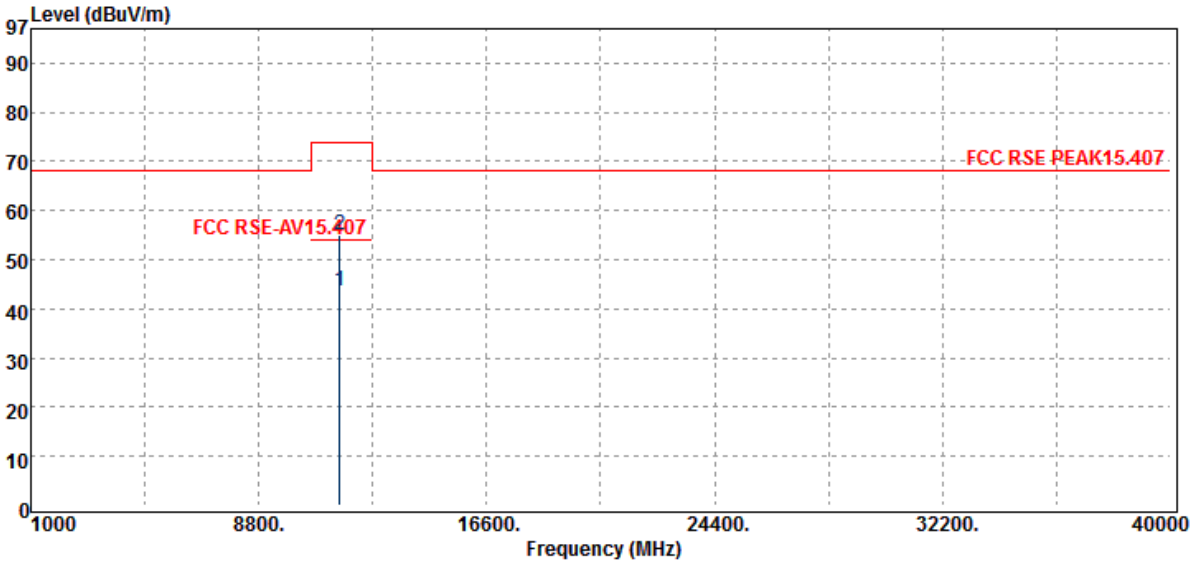
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Average	22.77	20.81	43.58	54.00	-10.42
11490.00	H	Peak	34.26	20.81	55.07	74.00	-18.93

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



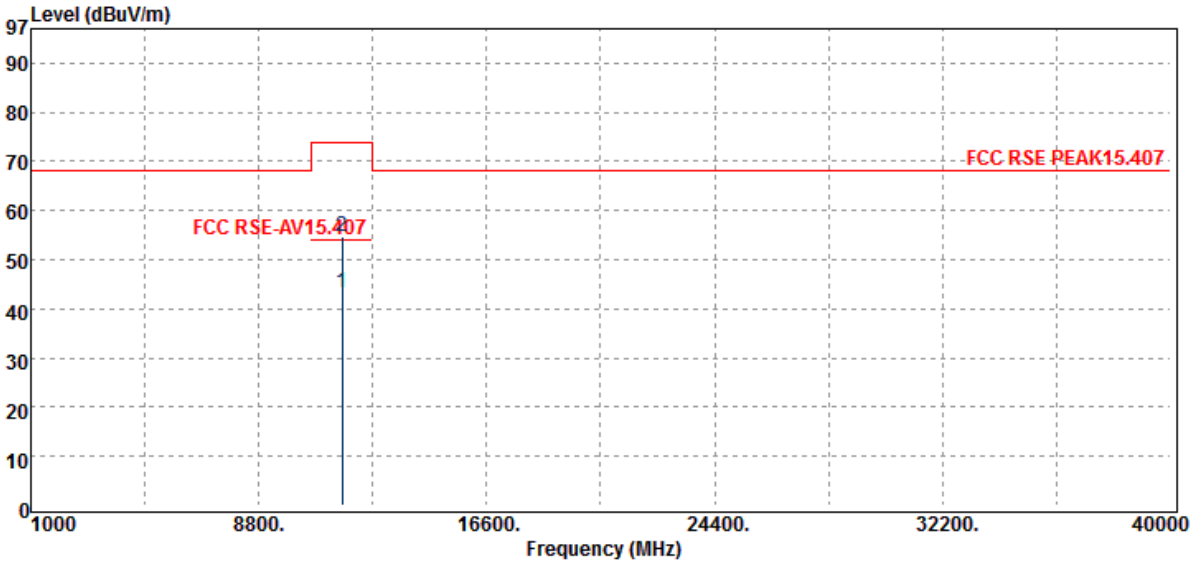
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.52	21.16	43.68	54.00	-10.32
11570.00	H	Peak	34.45	21.16	55.61	74.00	-18.39

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



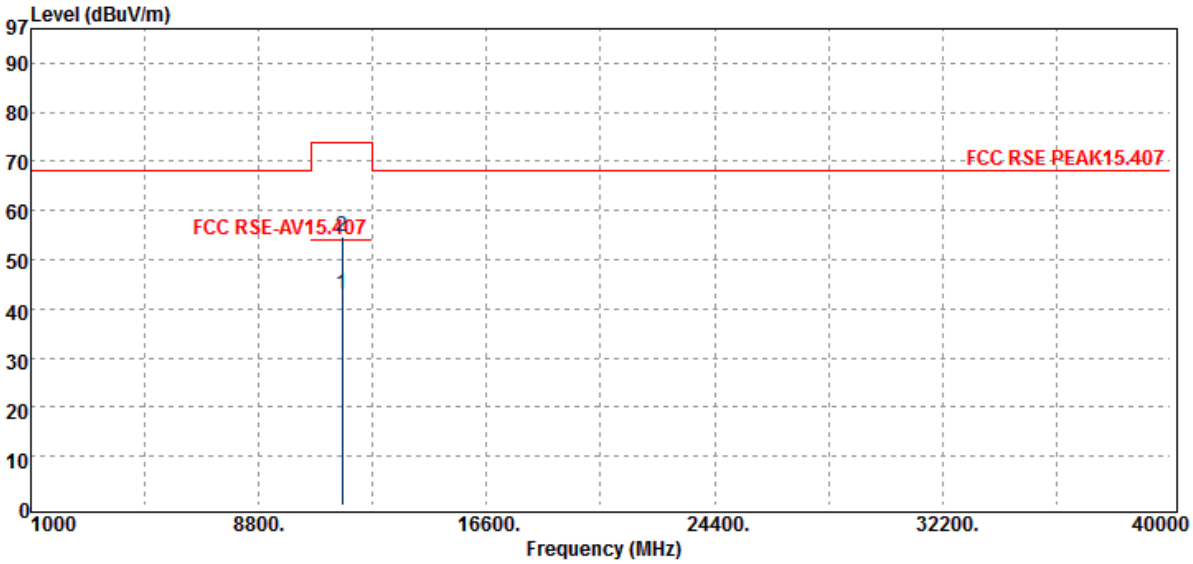
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.47	21.16	43.63	54.00	-10.37
11570.00	H	Peak	33.88	21.16	55.04	74.00	-18.96

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.22	20.93	43.15	54.00	-10.85
11650.00	H	Peak	33.79	20.93	54.72	74.00	-19.28

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.09	20.93	43.02	54.00	-10.98
11650.00	H	Peak	33.67	20.93	54.60	74.00	-19.40

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	66.53	11.04	77.57	78.20	-0.63

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5724.50	S	Peak	62.83	11.04	73.87	78.20	-4.33
5725.00	E	Peak	61.47	11.04	72.51	78.20	-5.69

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

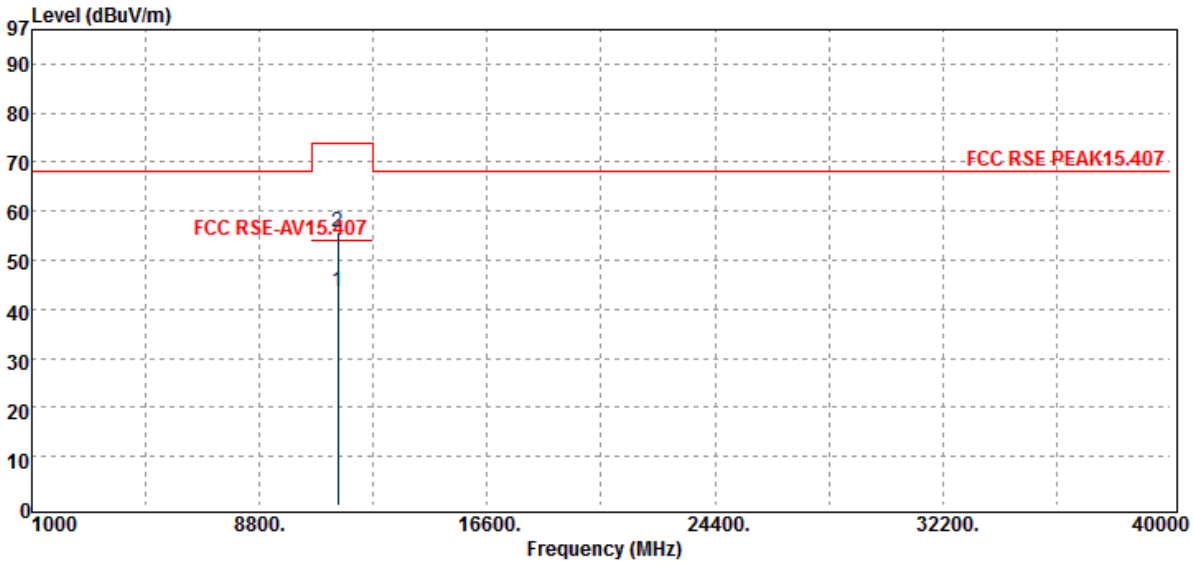
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	60.61	11.50	72.11	78.20	-6.09
5854.10	S	Peak	61.32	11.50	72.82	78.20	-5.38

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	60.81	11.50	72.31	78.20	-5.89

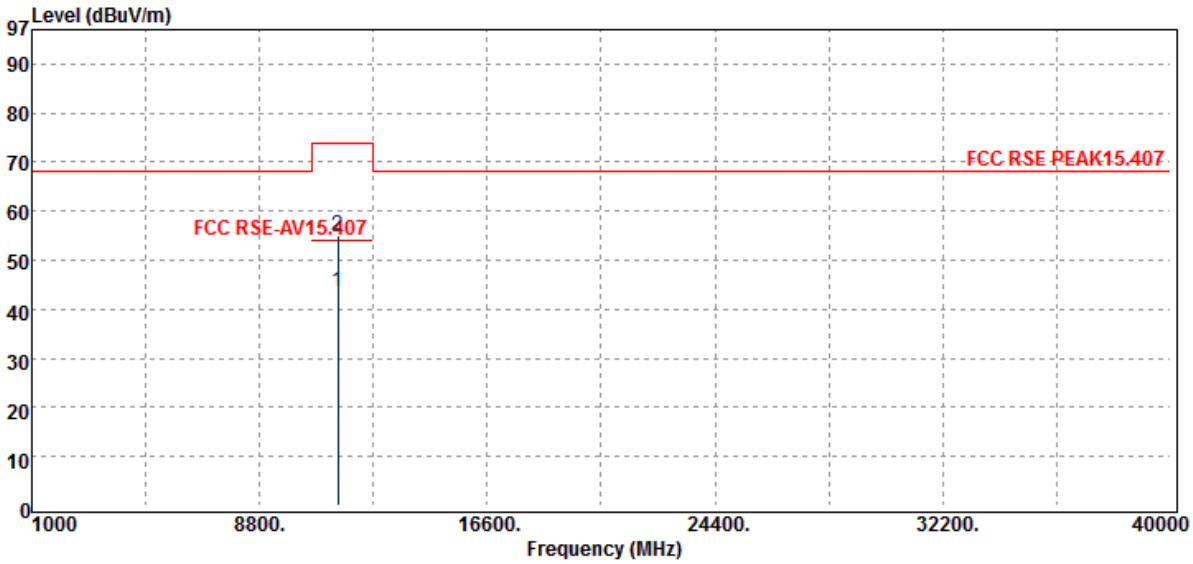
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



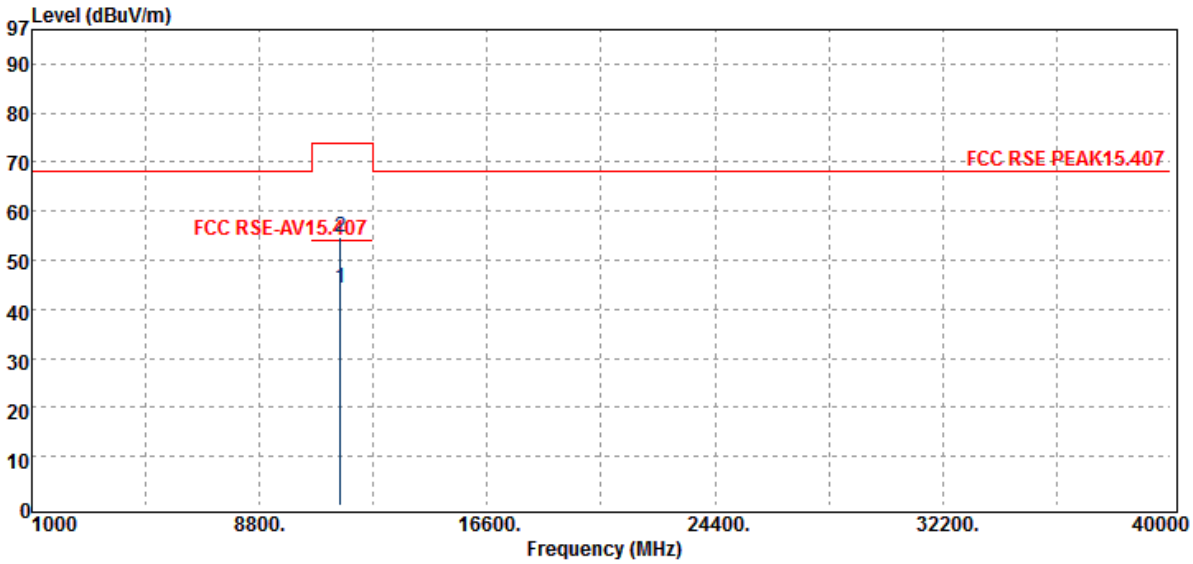
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	22.77	20.81	43.58	54.00	-10.42
11490.00	H	Peak	34.89	20.81	55.70	74.00	-18.30

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



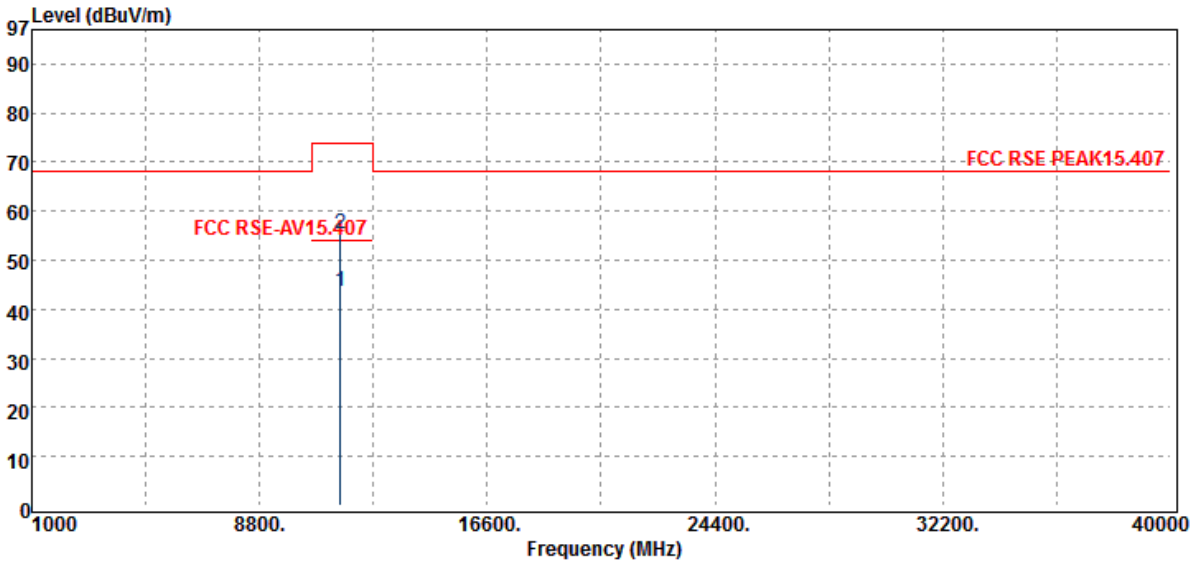
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	22.71	20.81	43.52	54.00	-10.48
11490.00	H	Peak	34.25	20.81	55.06	74.00	-18.94

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



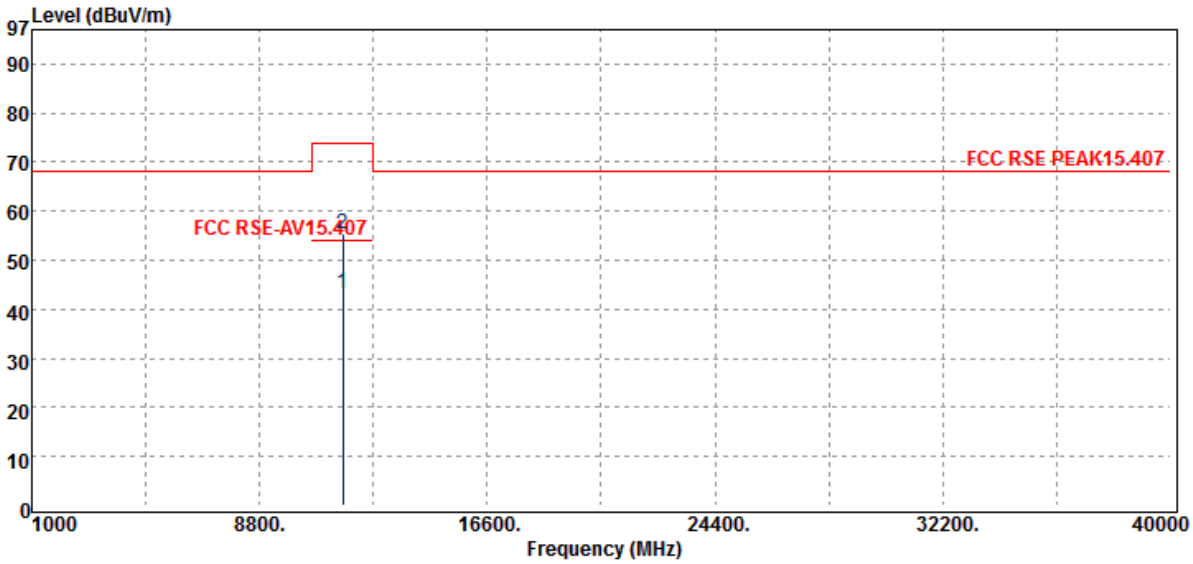
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.99	21.16	44.15	54.00	-9.85
11570.00	H	Peak	33.63	21.16	54.79	74.00	-19.21

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



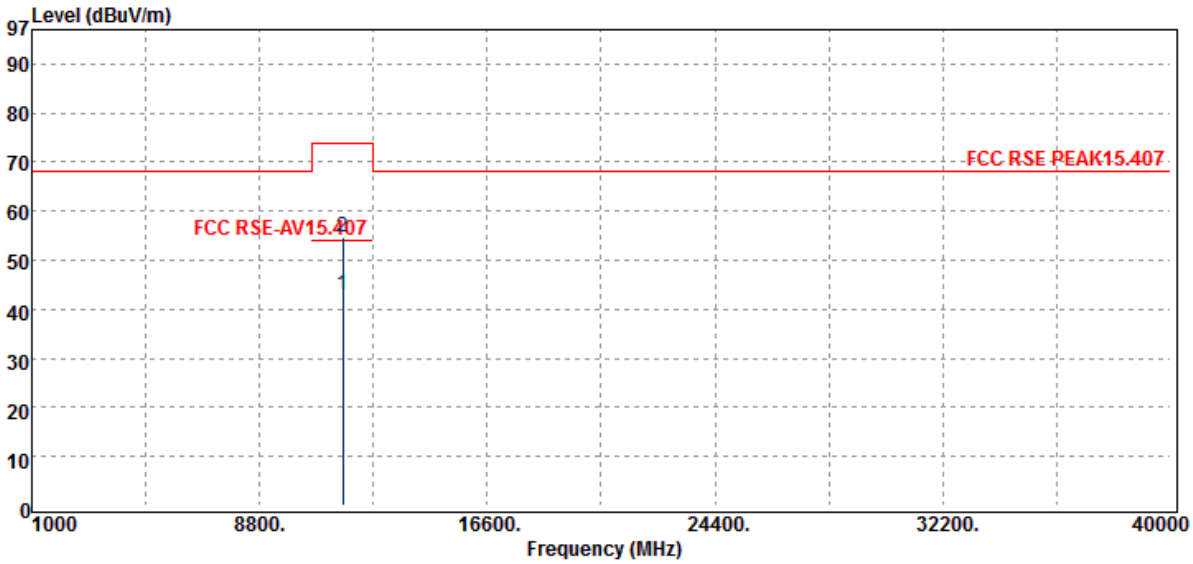
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.47	21.16	43.63	54.00	-10.37
11570.00	H	Peak	34.34	21.16	55.50	74.00	-18.50

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.25	20.93	43.18	54.00	-10.82
11650.00	H	Peak	34.56	20.93	55.49	74.00	-18.51

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.04	20.93	42.97	54.00	-11.03
11650.00	H	Peak	33.93	20.93	54.86	74.00	-19.14

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	66.57	11.04	77.61	78.20	-0.59

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	62.39	11.04	73.43	78.20	-4.77

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

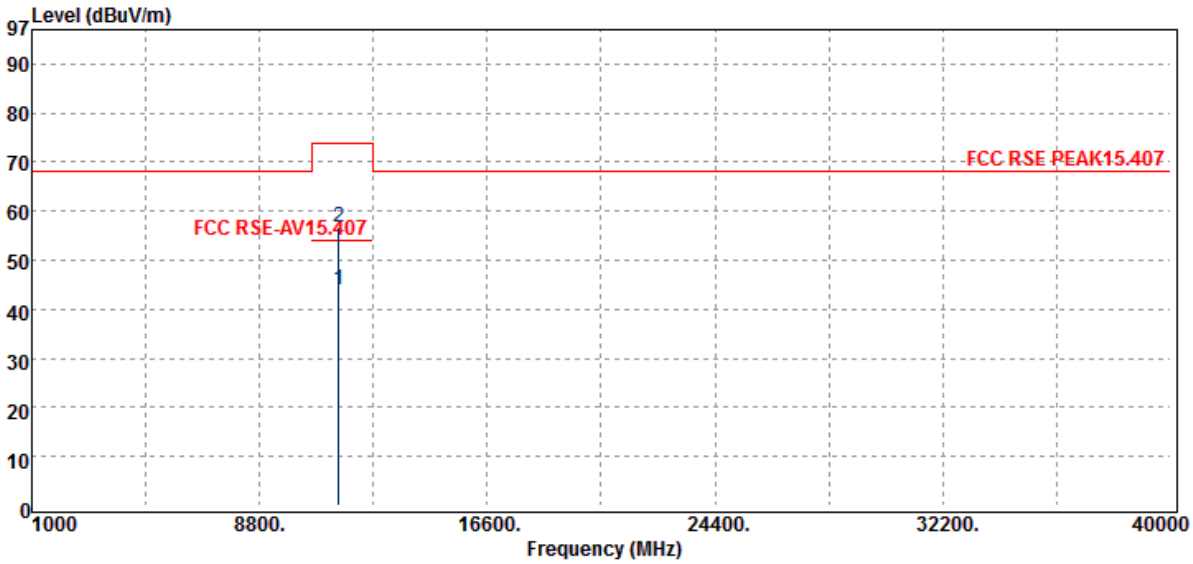
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	66.34	11.50	77.84	78.20	-0.36

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	64.26	11.50	75.76	78.20	-2.44

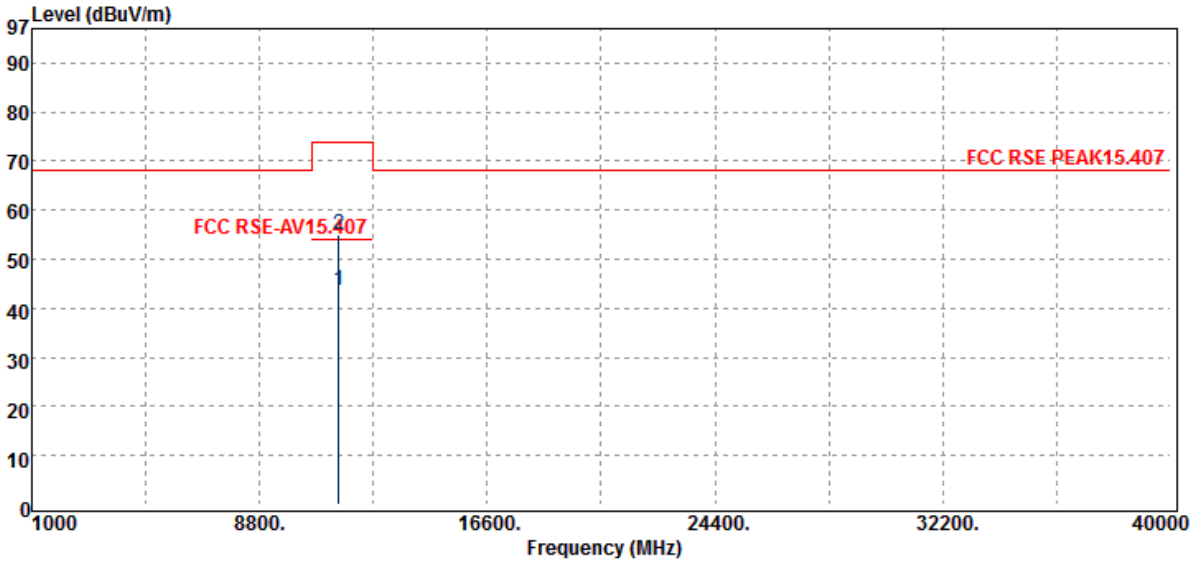
Radiated Spurious Emission Measurement Result (802.11n (5GHz)_40M) (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



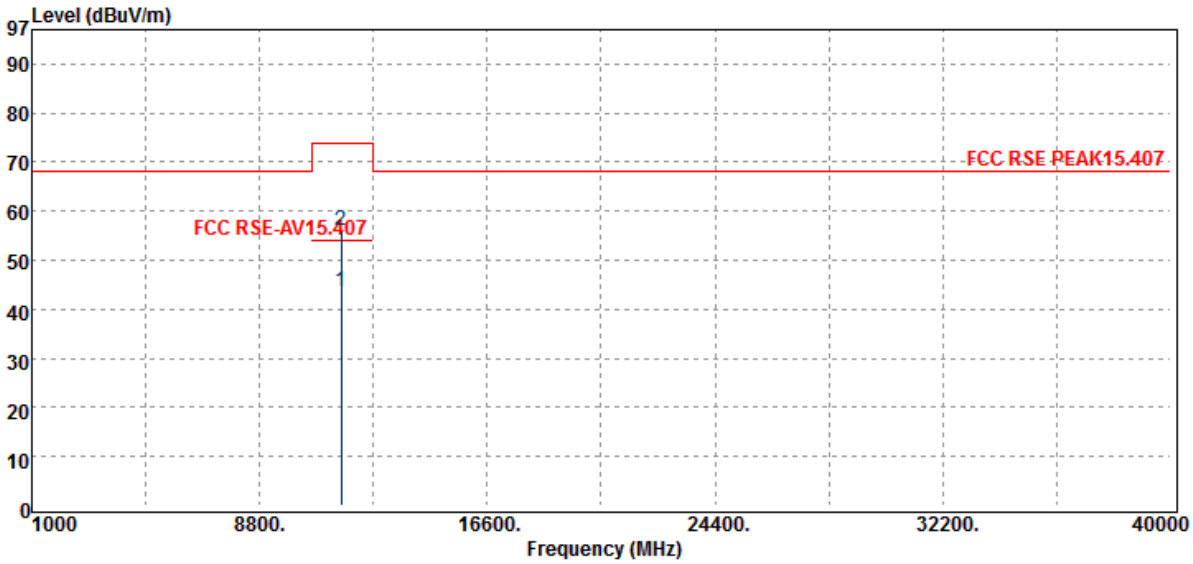
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	H	Average	22.89	21.03	43.92	54.00	-10.08
11510.00	H	Peak	35.66	21.03	56.69	74.00	-17.31

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



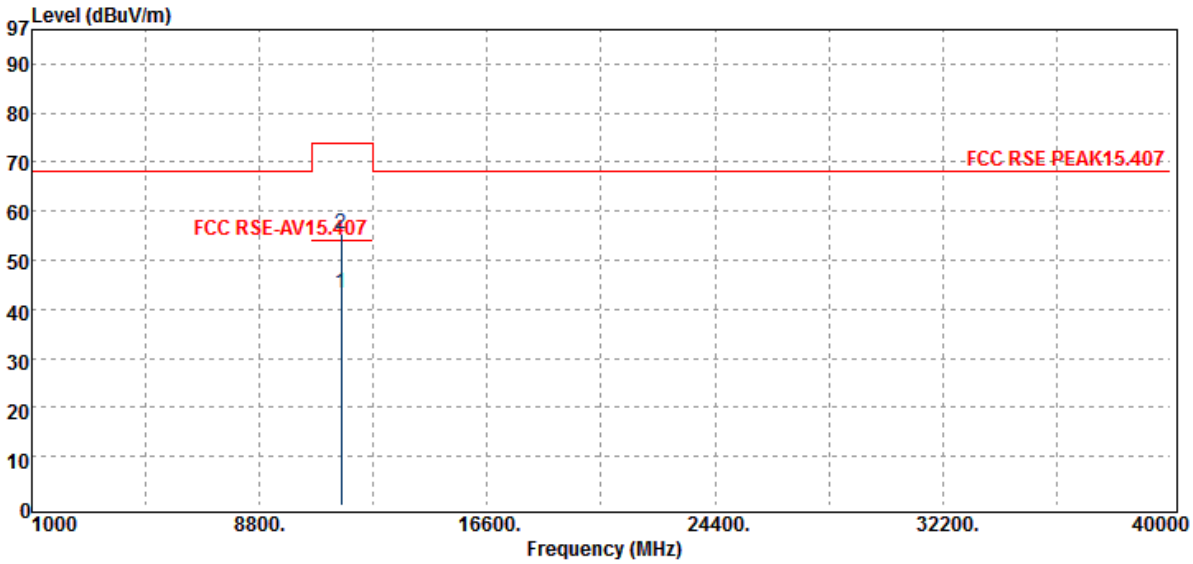
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11510.00	H	Average	22.57	21.03	43.60	54.00	-10.40
11510.00	H	Peak	34.10	21.03	55.13	74.00	-18.87

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11590.00	H	Average	22.57	21.11	43.68	54.00	-10.32
11590.00	H	Peak	34.93	21.11	56.04	74.00	-17.96

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.31	21.11	43.42	54.00	-10.58
11590.00	H	Peak	34.17	21.11	55.28	74.00	-18.72

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	66.02	11.04	77.06	78.20	-1.14

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	62.54	11.04	73.58	78.20	-4.62

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	55.96	11.50	67.46	78.20	-10.74

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

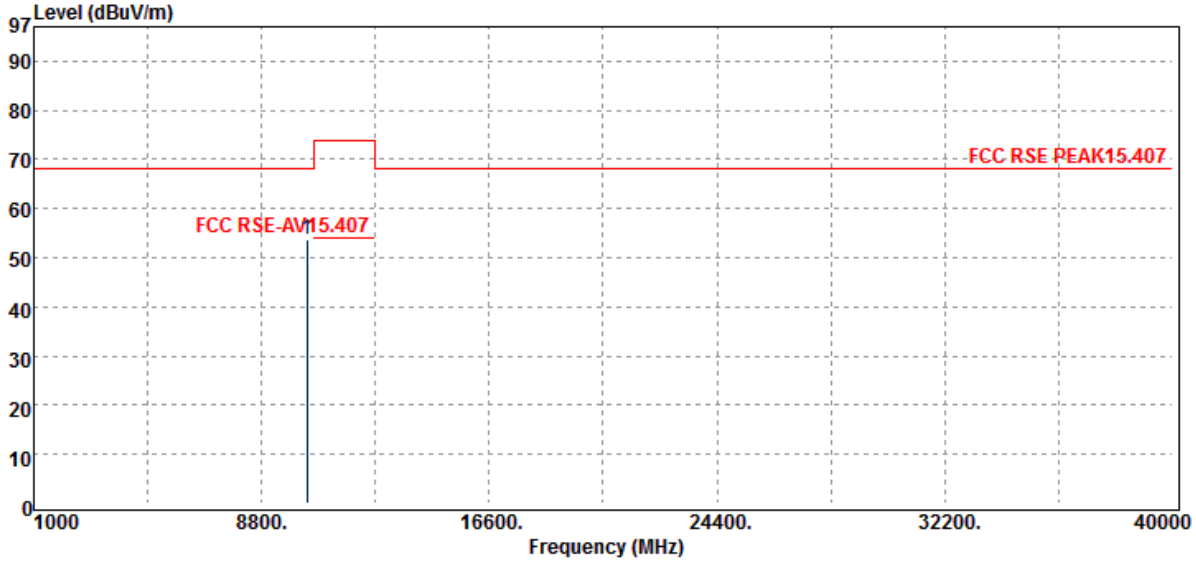
The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	57.94	11.50	69.44	78.20	-8.76

Above 1GHz Worst-Case Data (External Antenna):

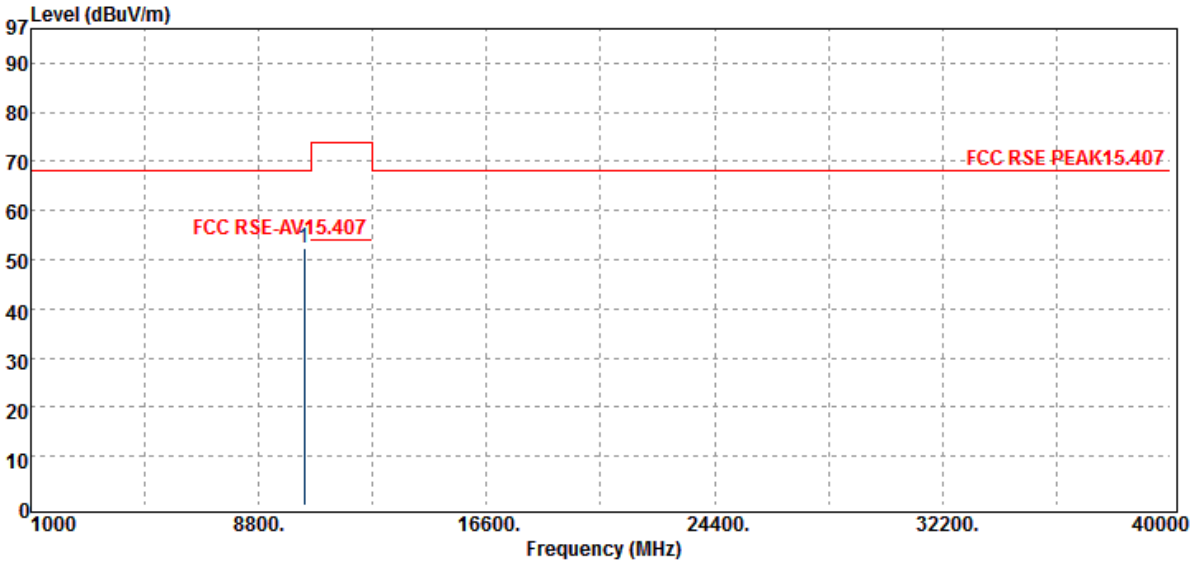
802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



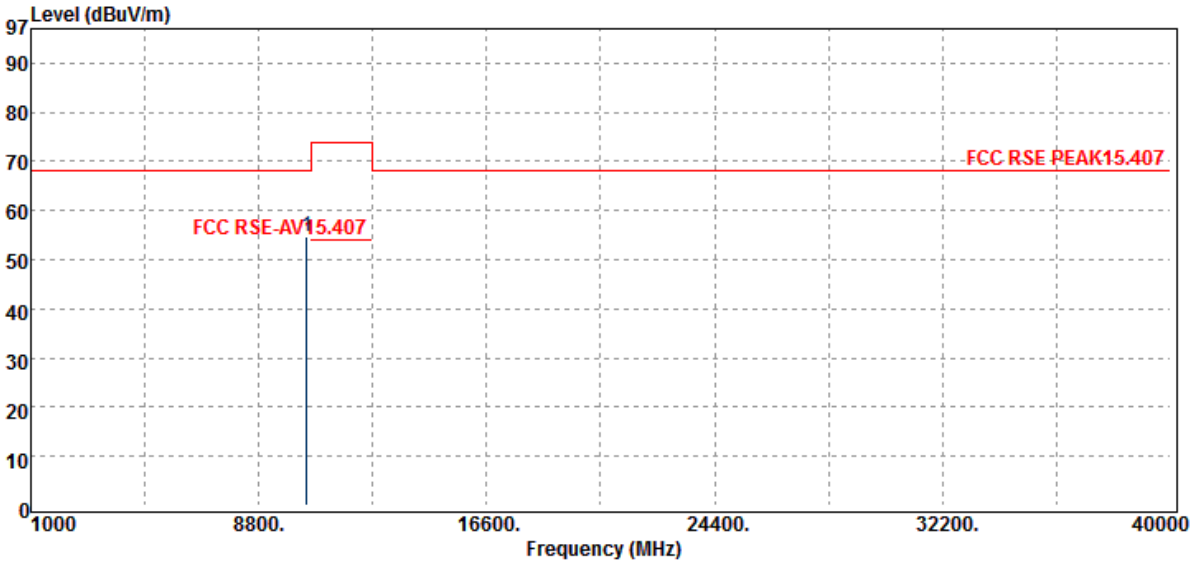
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	35.98	17.65	53.63	68.30	-14.67

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



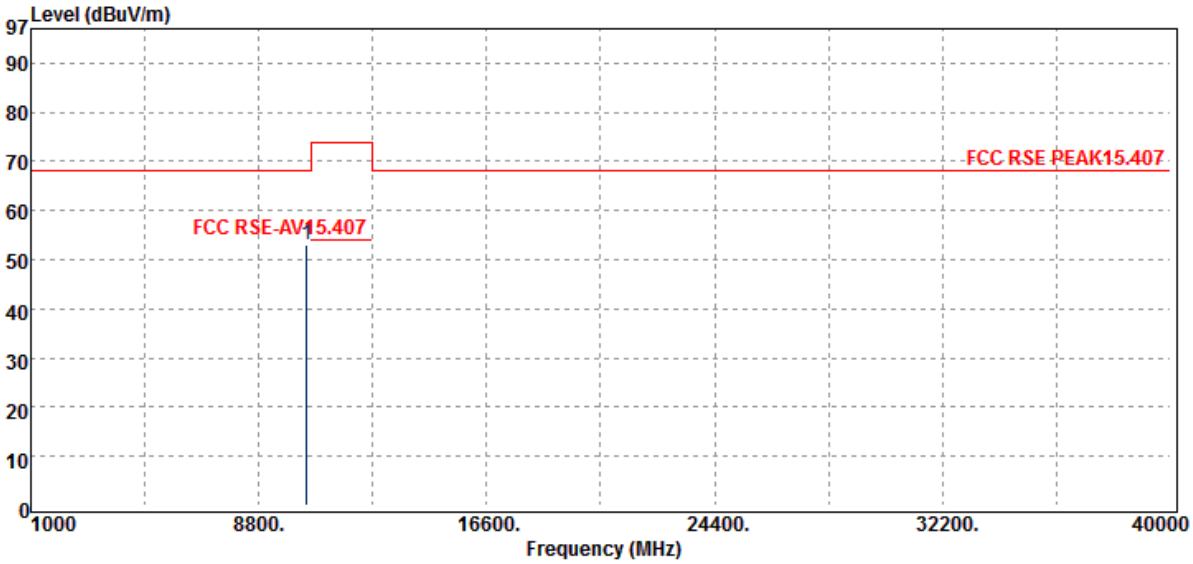
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	34.63	17.65	52.28	68.30	-16.02

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



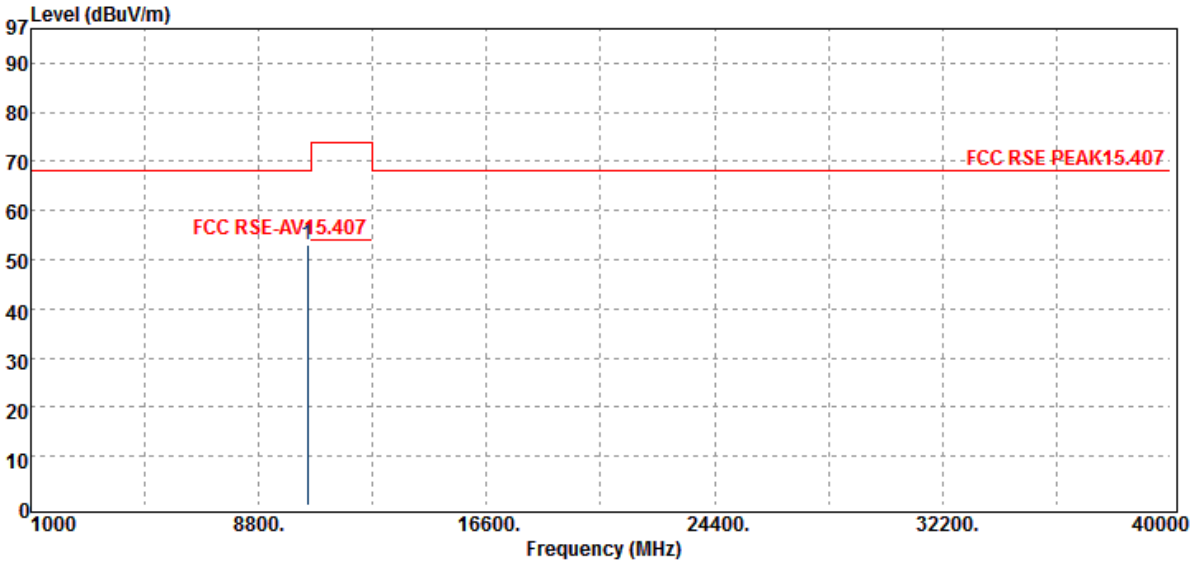
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	36.25	18.47	54.72	68.30	-13.58

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



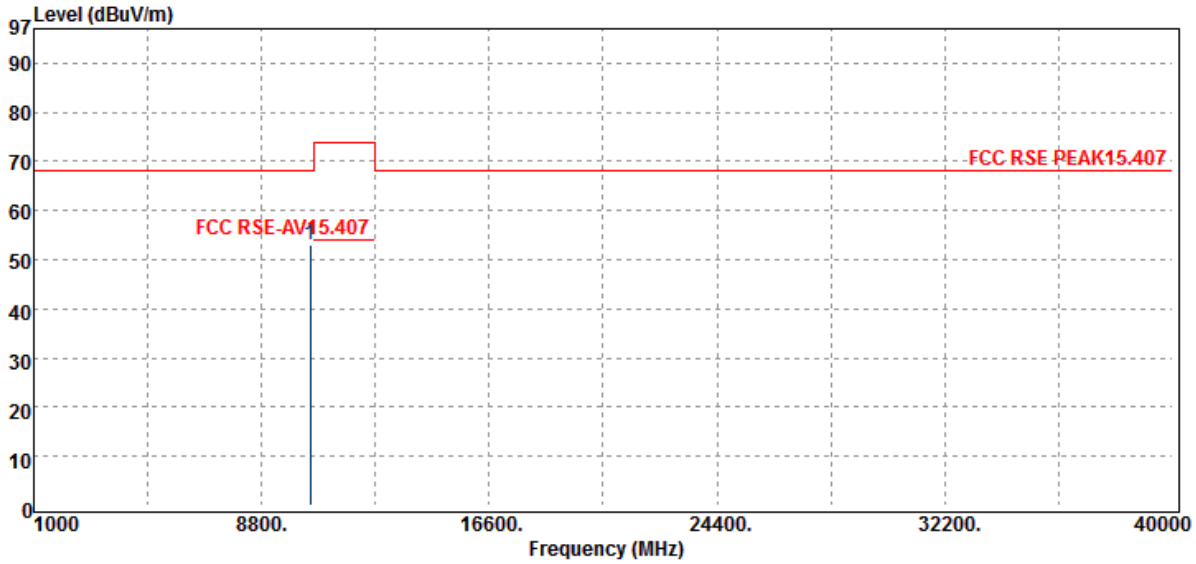
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	34.53	18.47	53.00	68.30	-15.30

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	34.66	18.23	52.89	68.30	-15.41

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	34.91	18.23	53.14	68.30	-15.16

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

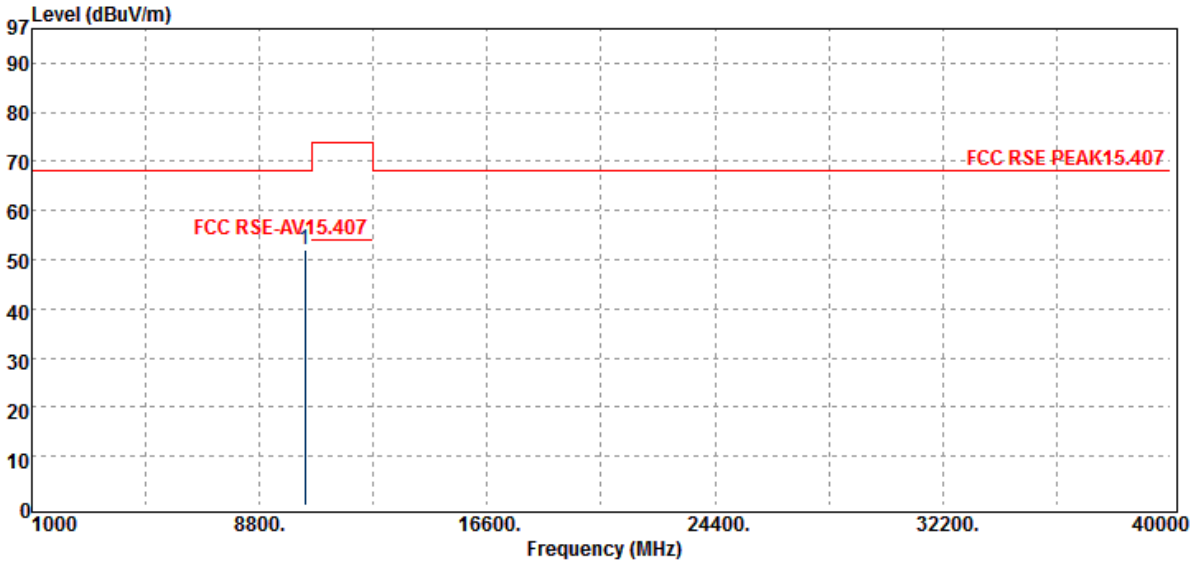
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	36.01	10.32	46.33	54.00	-7.67
5150.00	E	Peak	62.60	10.32	72.92	74.00	-1.08

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	30.03	10.32	40.35	54.00	-13.65
5150.00	E	Peak	51.04	10.32	61.36	74.00	-12.64

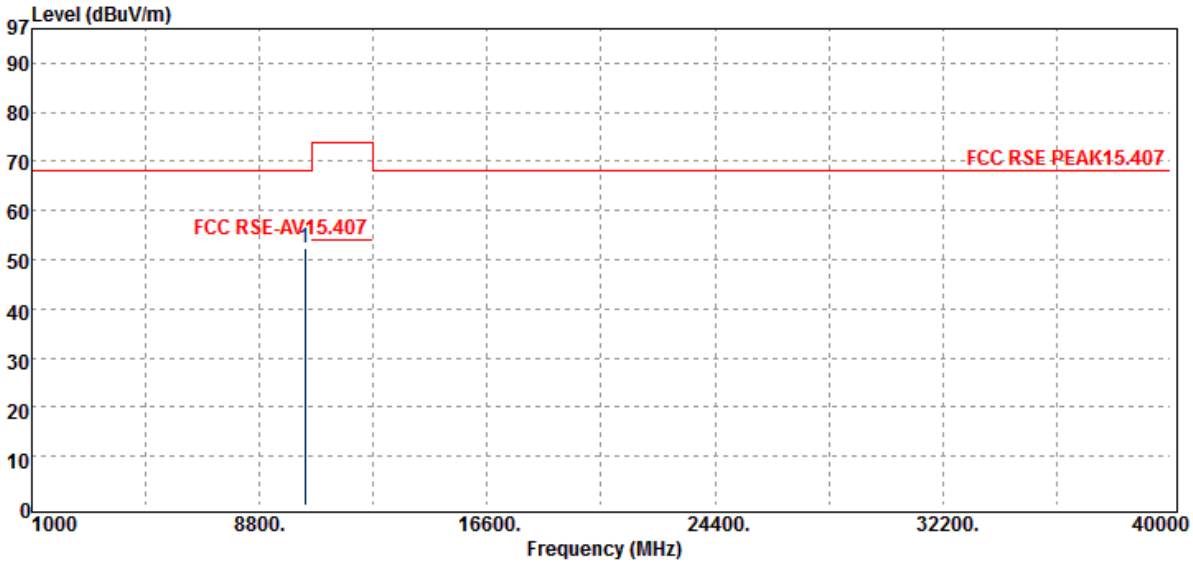
Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



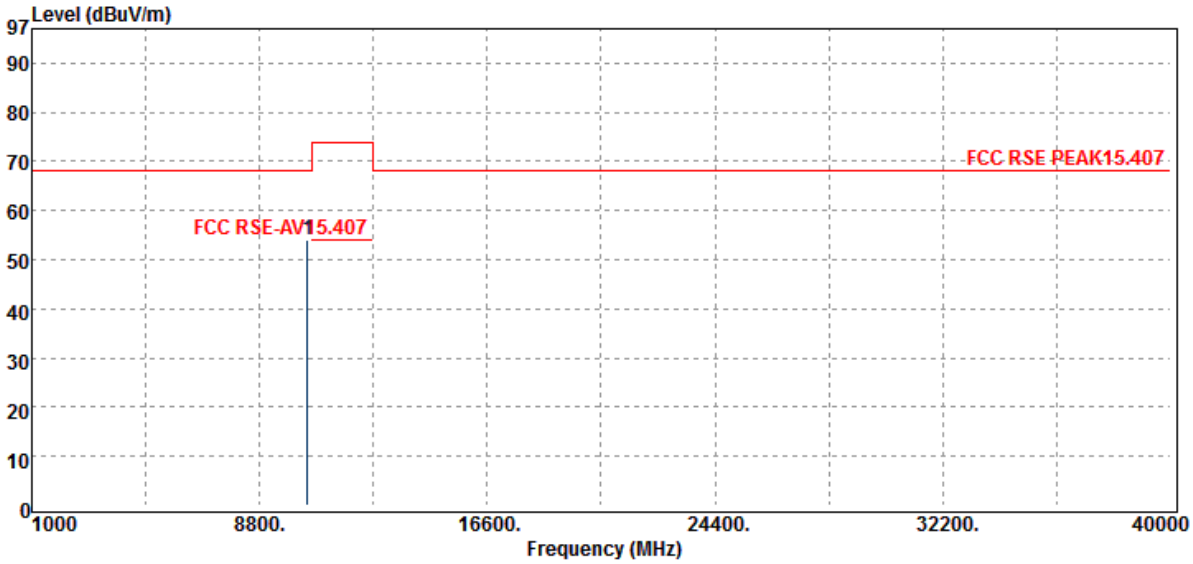
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	34.26	17.65	51.91	68.30	-16.39

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



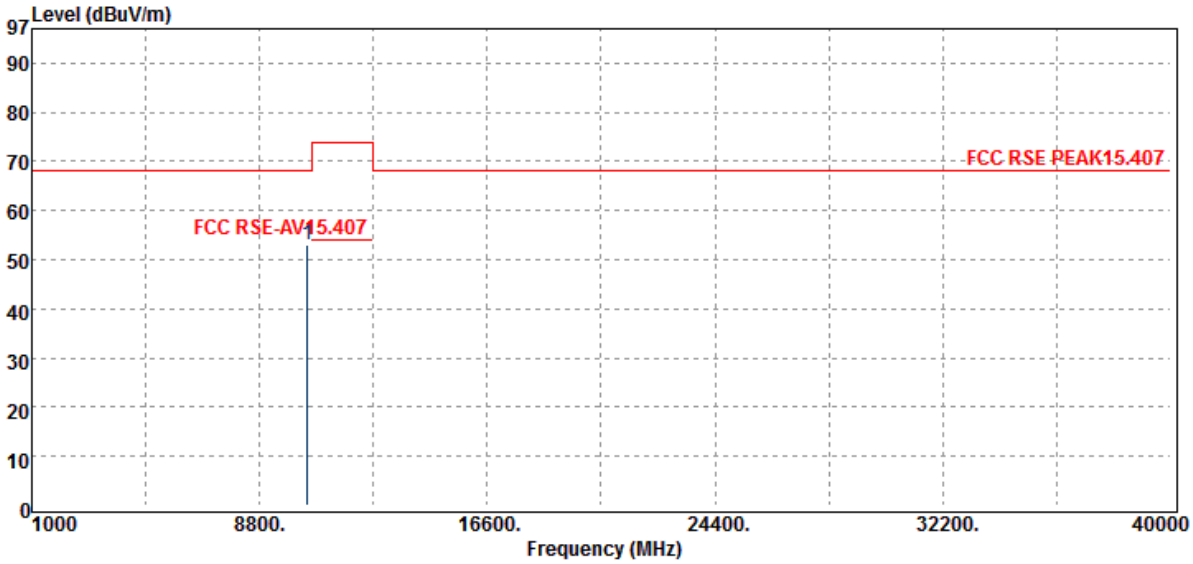
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	34.88	17.65	52.53	68.30	-15.77

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



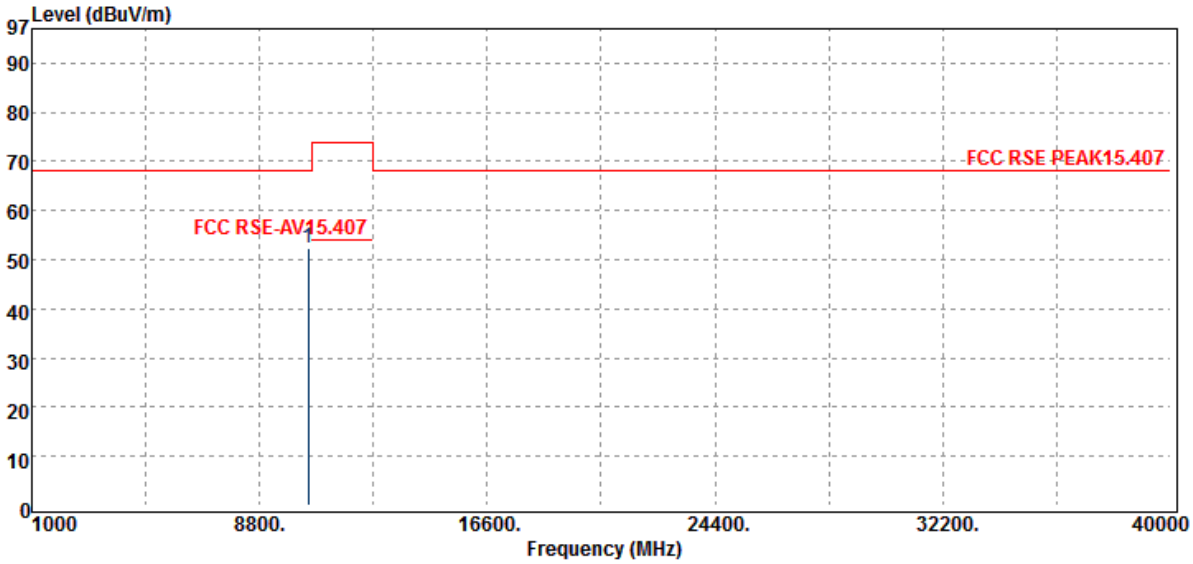
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	35.51	18.47	53.98	68.30	-14.32

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



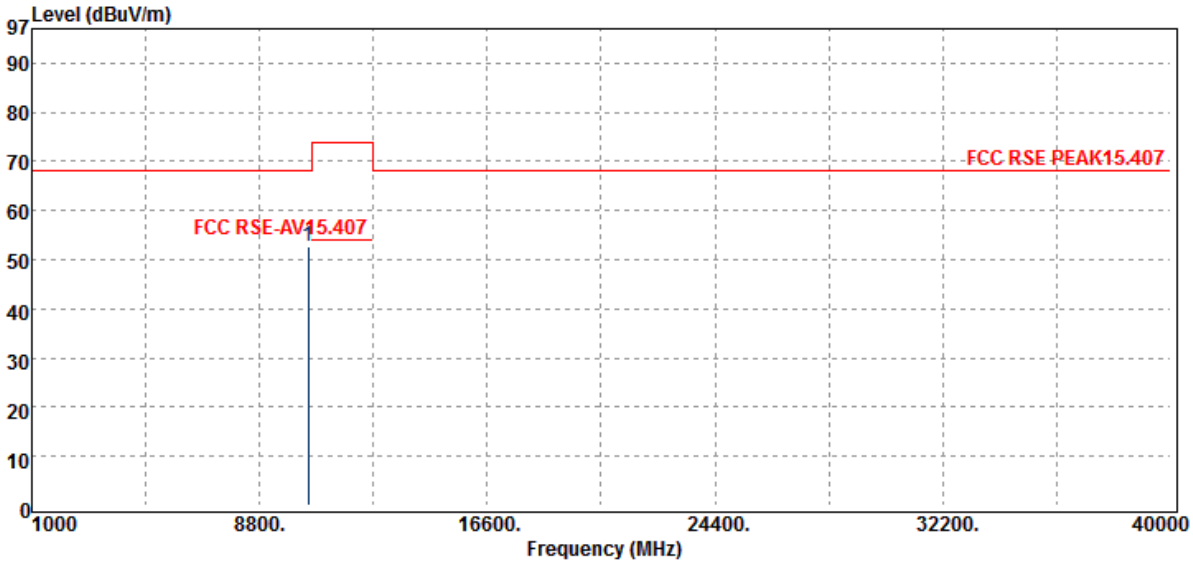
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	34.72	18.47	53.19	68.30	-15.11

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	34.16	18.23	52.39	68.30	-15.91

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	34.37	18.23	52.60	68.30	-15.70

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	35.66	10.32	45.98	54.00	-8.02
5150.00	E	Peak	62.19	10.32	72.51	74.00	-1.49

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

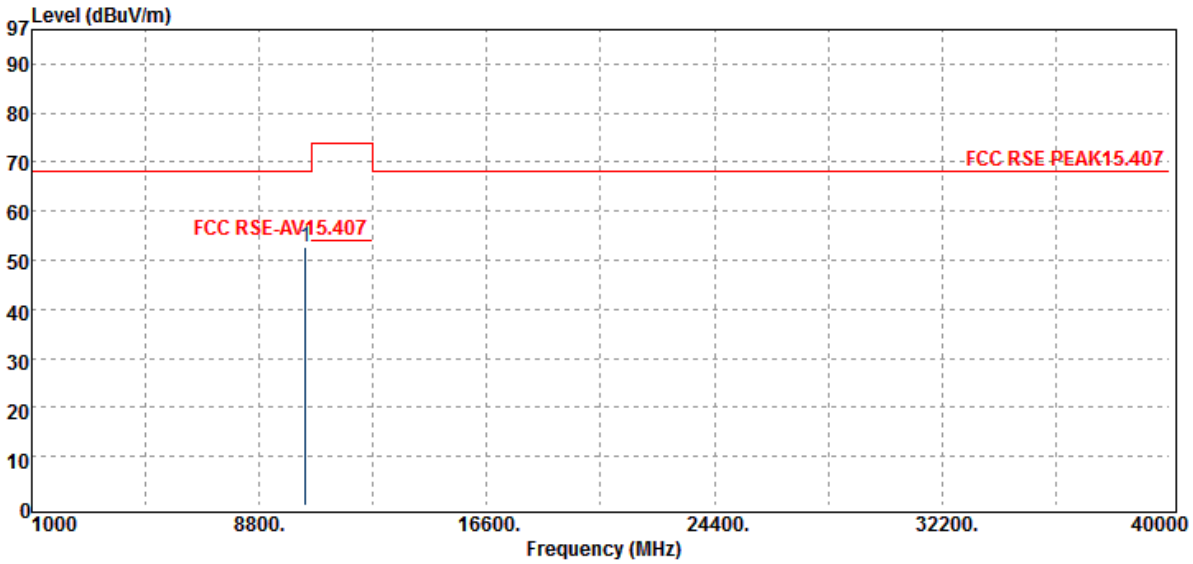
"---" : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Average	30.16	10.32	40.48	54.00	-13.52
5150.00	E	Peak	50.33	10.32	60.65	74.00	-13.35

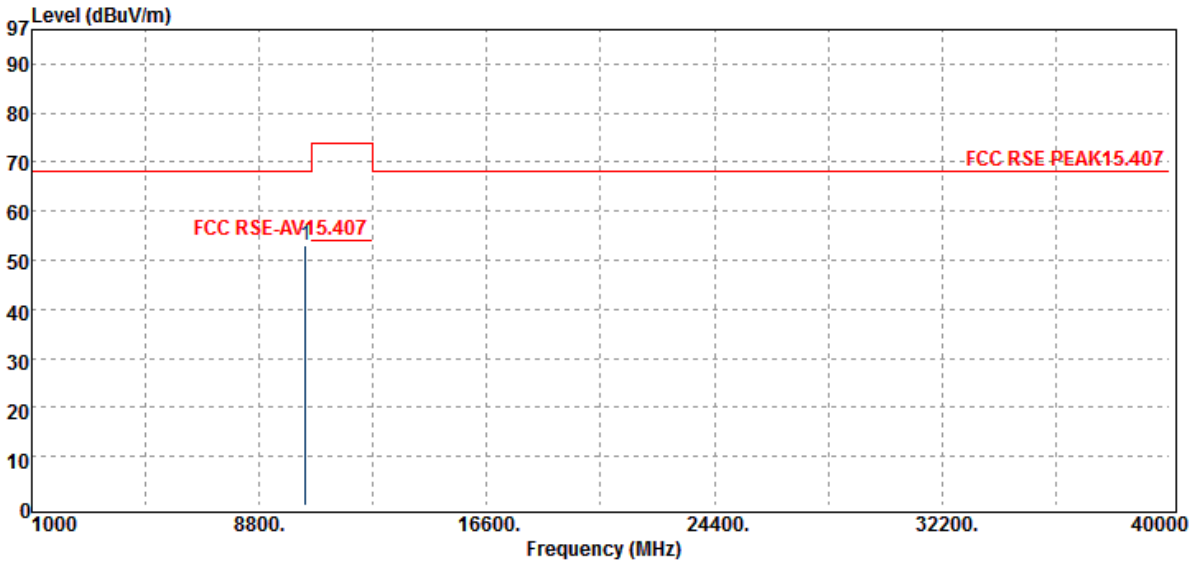
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



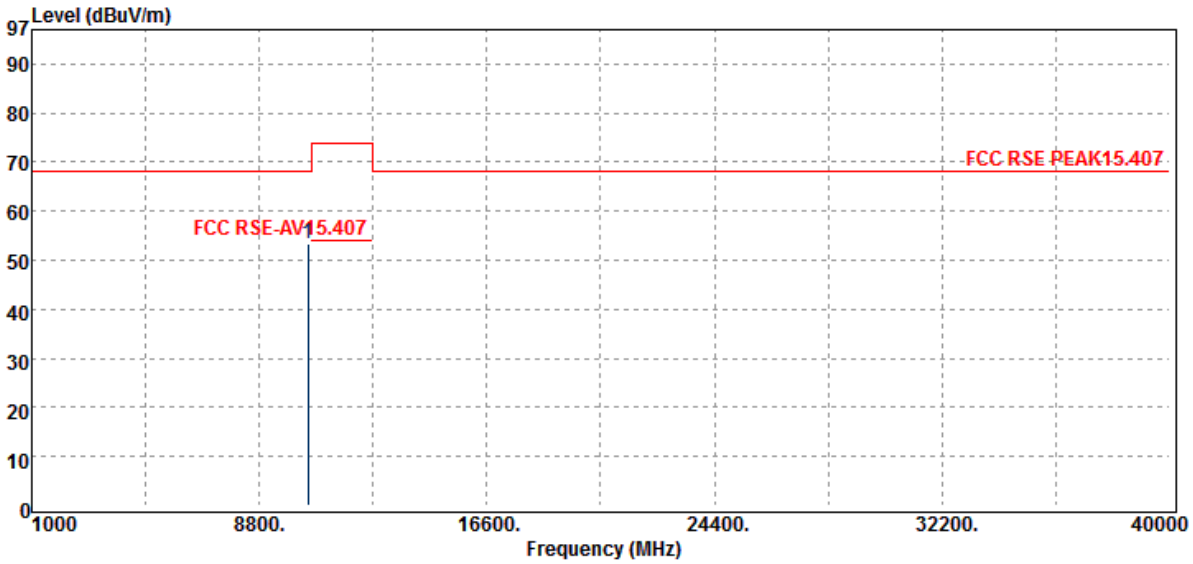
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	34.64	18.00	52.64	68.30	-15.66

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



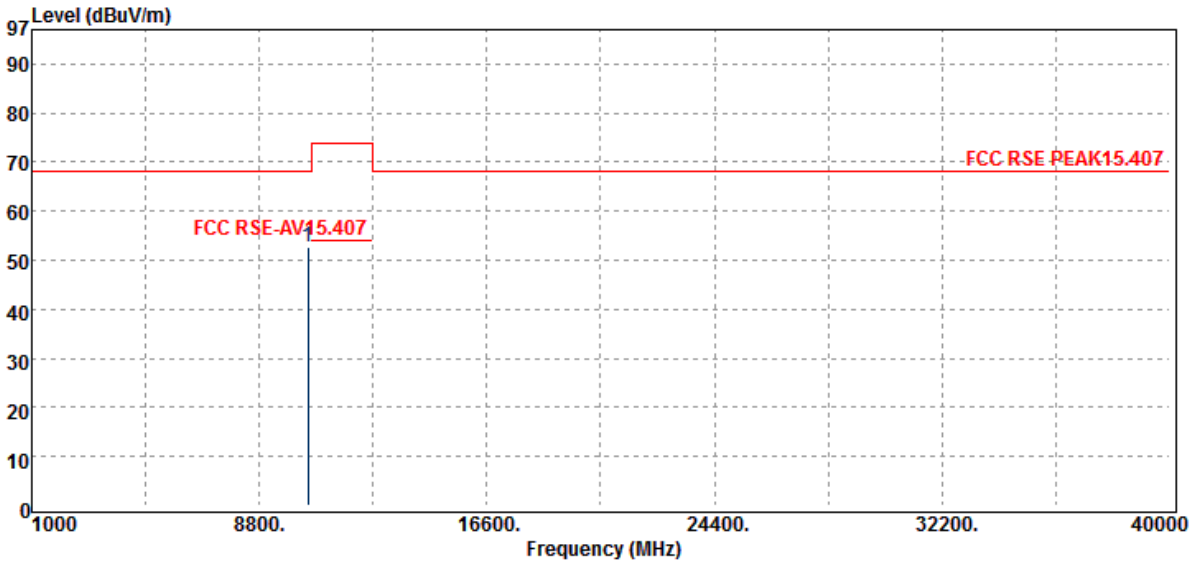
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	34.87	18.00	52.87	68.30	-15.43

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	34.98	18.36	53.34	68.30	-14.96

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	34.33	18.36	52.69	68.30	-15.61

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

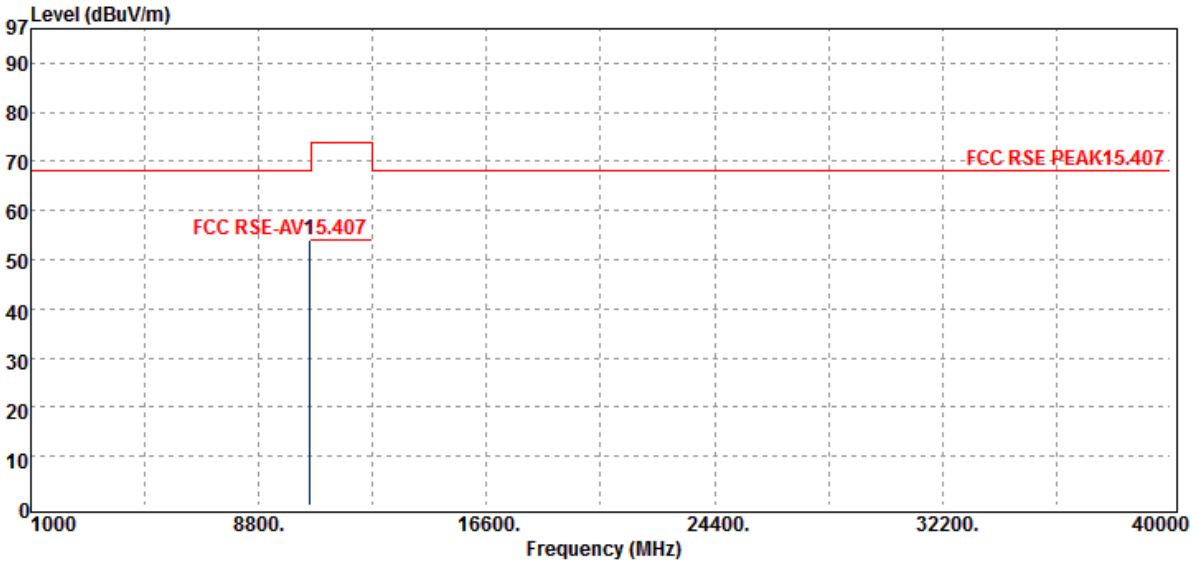
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	41.09	10.32	51.41	54.00	-2.59
5150.00	E	Peak	61.86	10.32	72.18	74.00	-1.82

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Average	31.12	10.32	41.44	54.00	-12.56
5150.00	E	Peak	47.93	10.32	58.25	74.00	-15.75

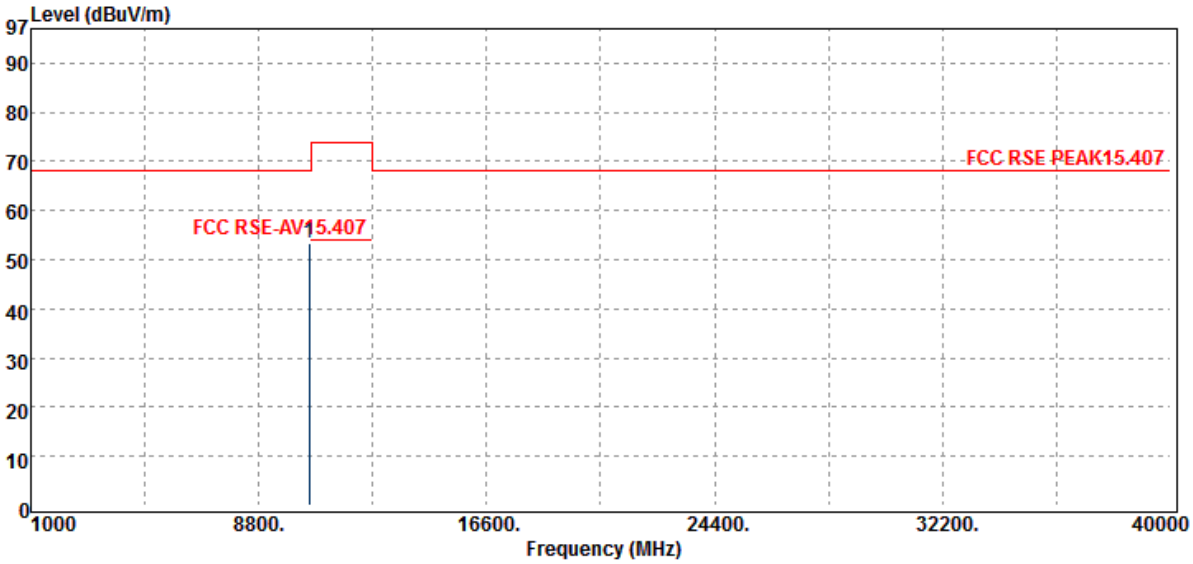
Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



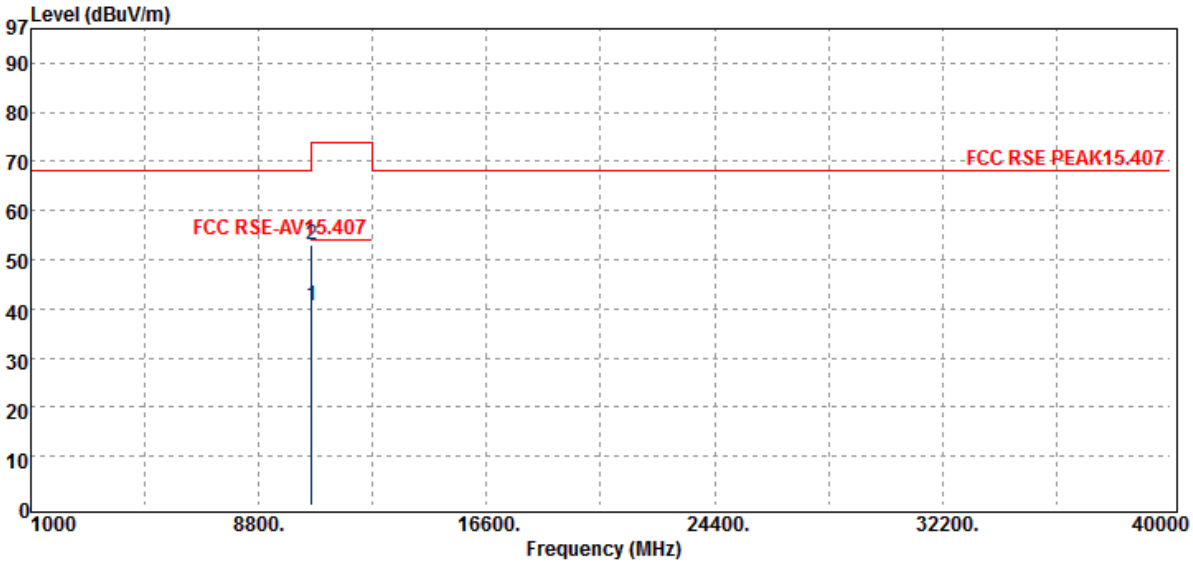
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	35.71	18.35	54.06	68.30	-14.24

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



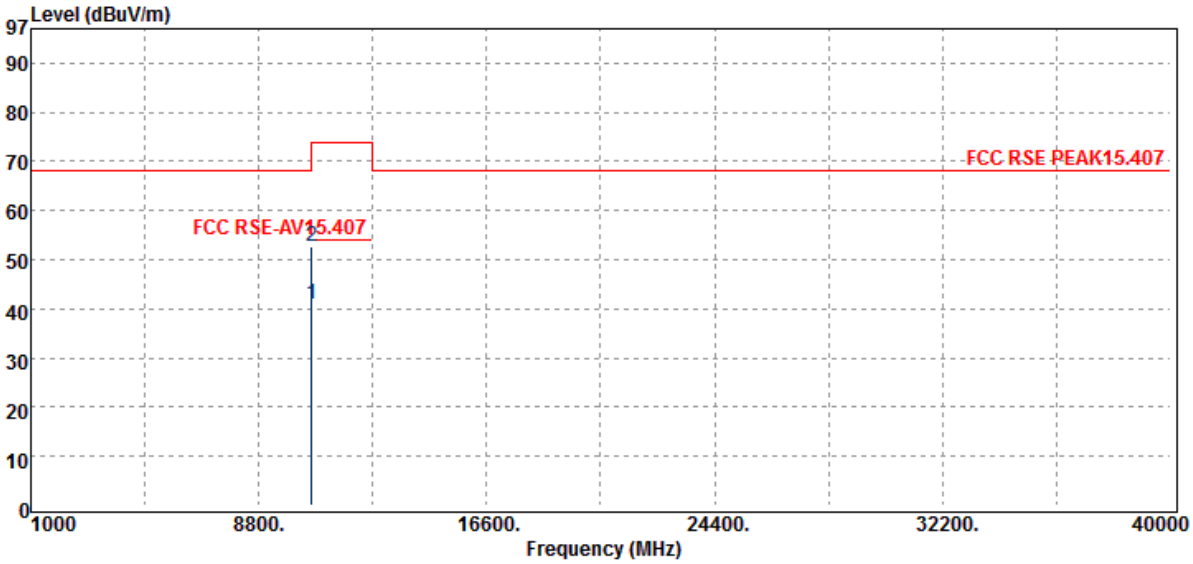
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10520.00	H	Peak	34.99	18.35	53.34	68.30	-14.96

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



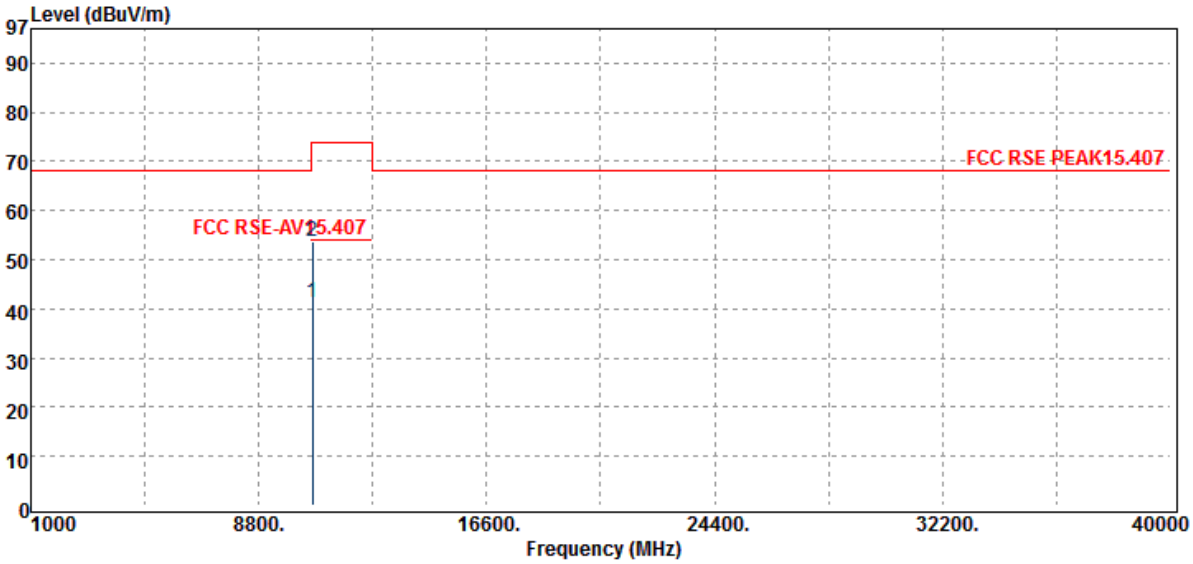
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.08	18.69	40.77	54.00	-13.23
10600.00	H	Peak	34.24	18.69	52.93	74.00	-21.07

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



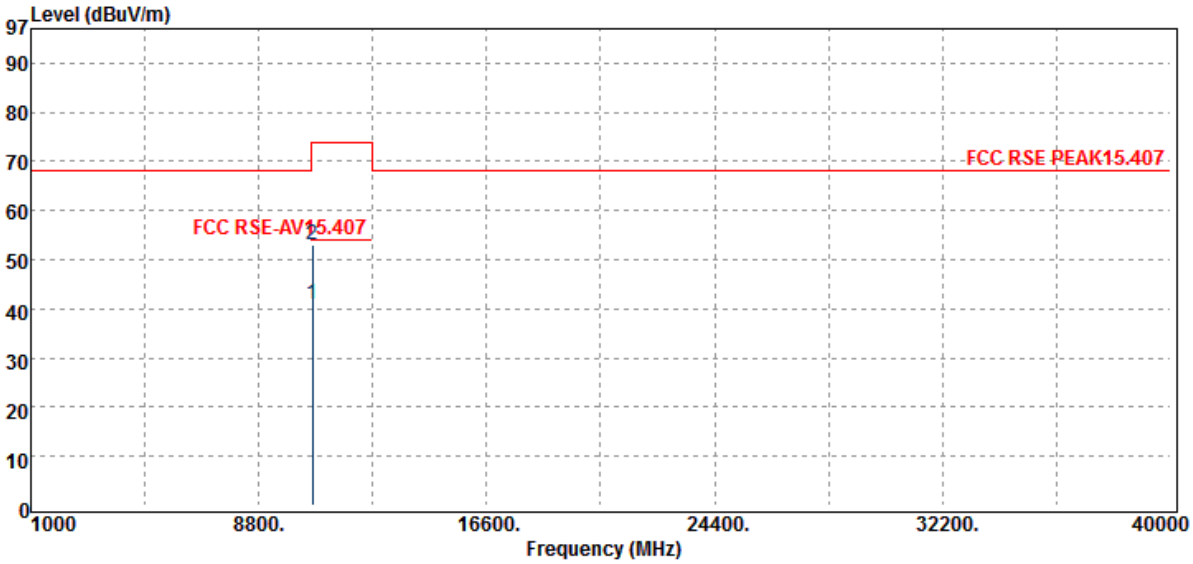
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.12	18.69	40.81	54.00	-13.19
10600.00	H	Peak	33.89	18.69	52.58	74.00	-21.42

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Average	22.18	19.02	41.20	54.00	-12.80
10640.00	H	Peak	34.68	19.02	53.70	74.00	-20.30

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Average	22.05	19.02	41.07	54.00	-12.93
10640.00	H	Peak	33.86	19.02	52.88	74.00	-21.12

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

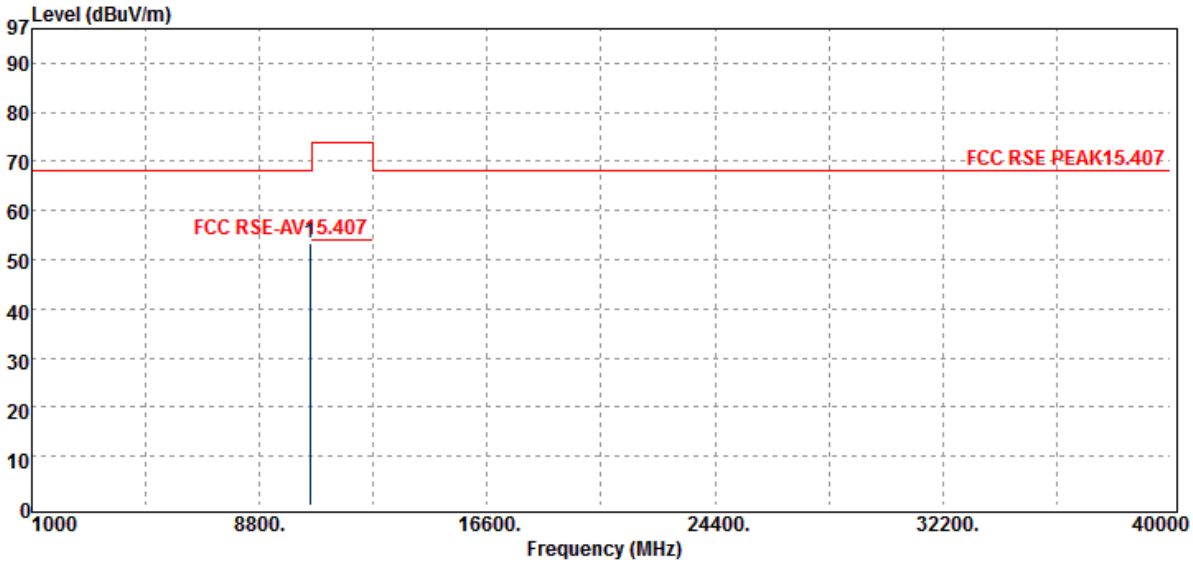
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	35.72	10.97	46.69	54.00	-7.31
5350.00	E	Peak	61.72	10.97	72.69	74.00	-1.31

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	30.47	10.97	41.44	54.00	-12.56
5350.00	E	Peak	43.60	10.97	54.57	74.00	-19.43

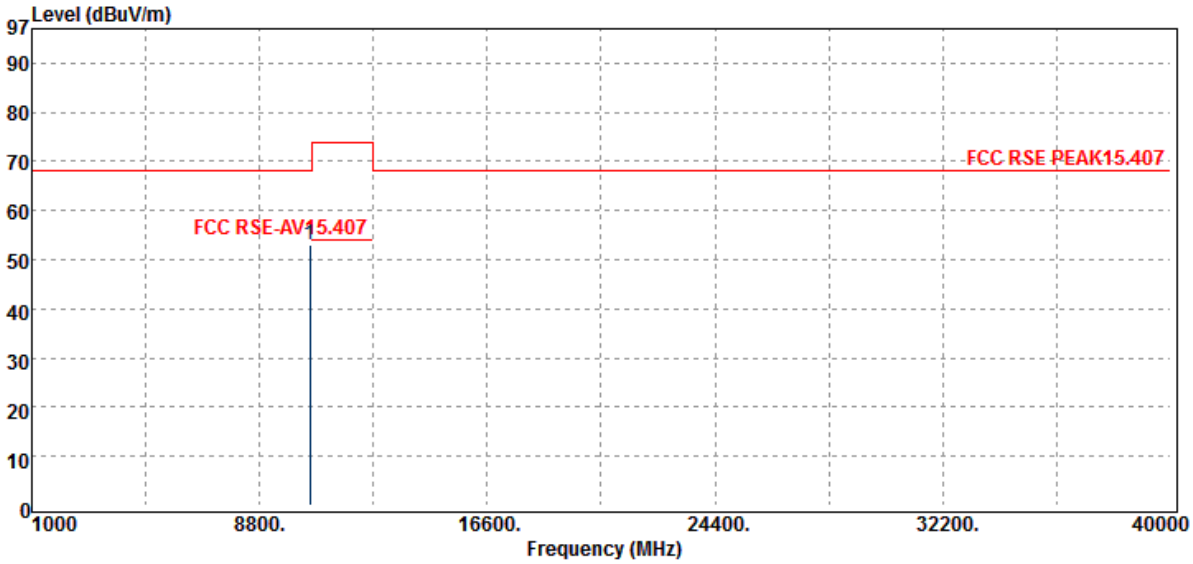
Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



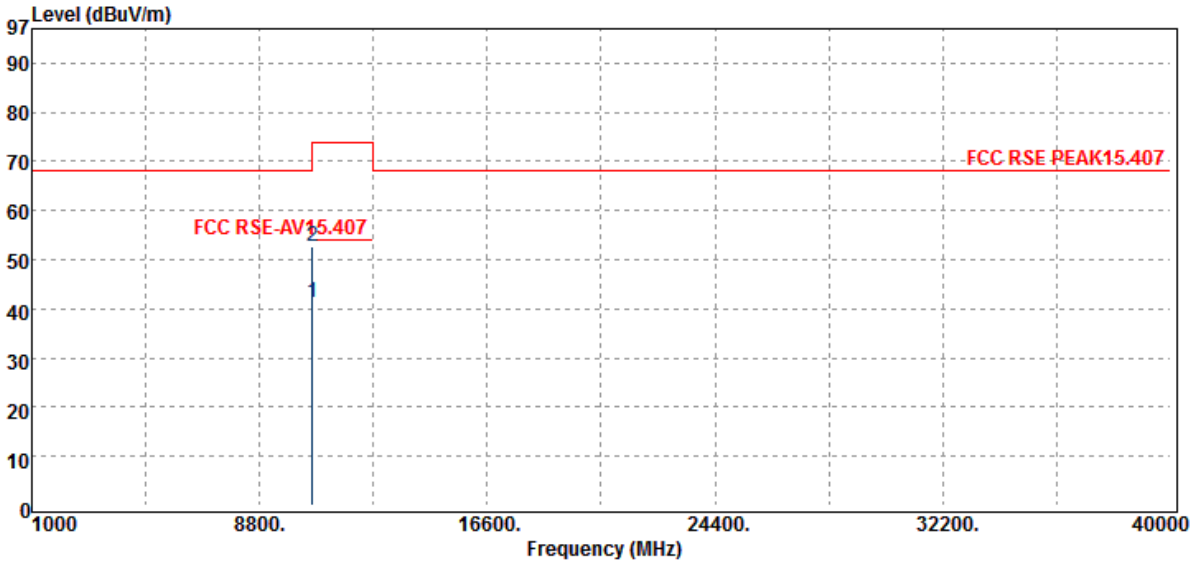
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.91	18.35	53.26	68.30	-15.04

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



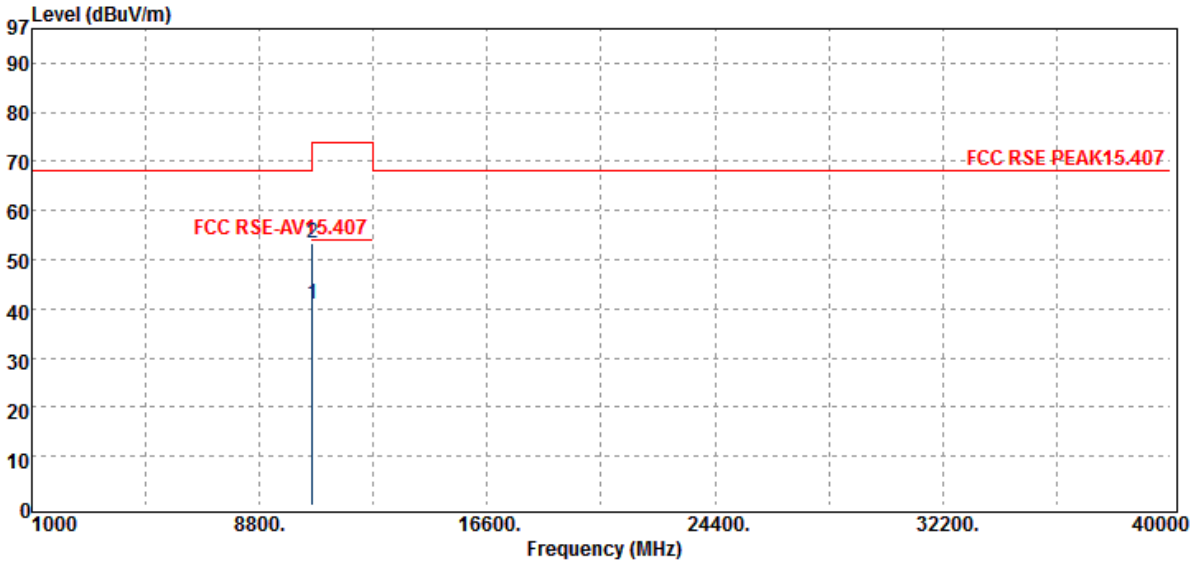
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	34.83	18.35	53.18	68.30	-15.12

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



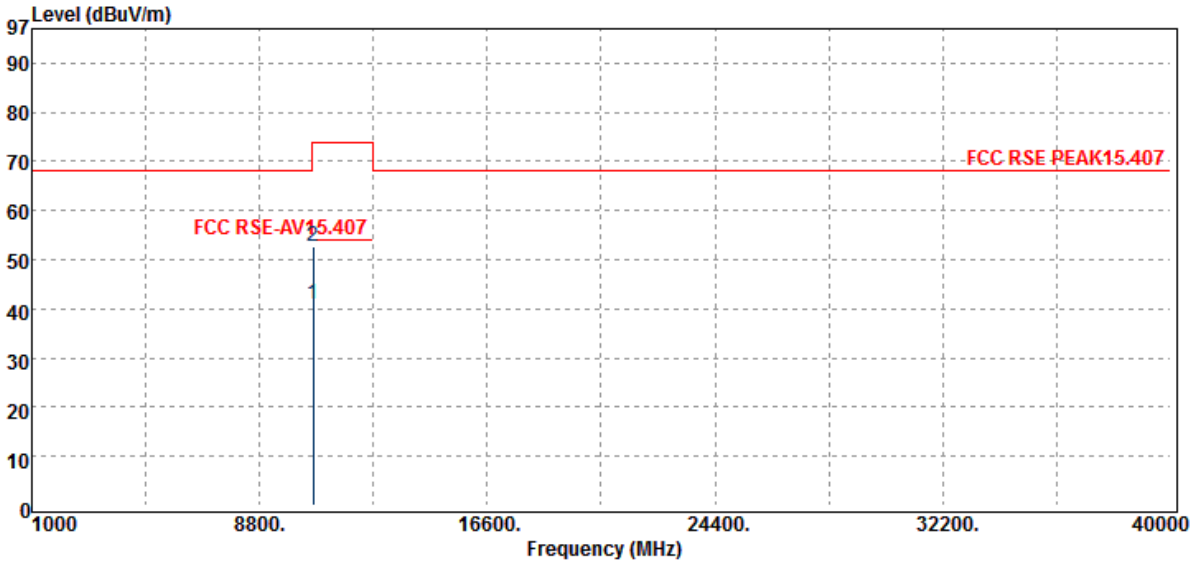
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.48	18.69	41.17	54.00	-12.83
10600.00	H	Peak	34.13	18.69	52.82	74.00	-21.18

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



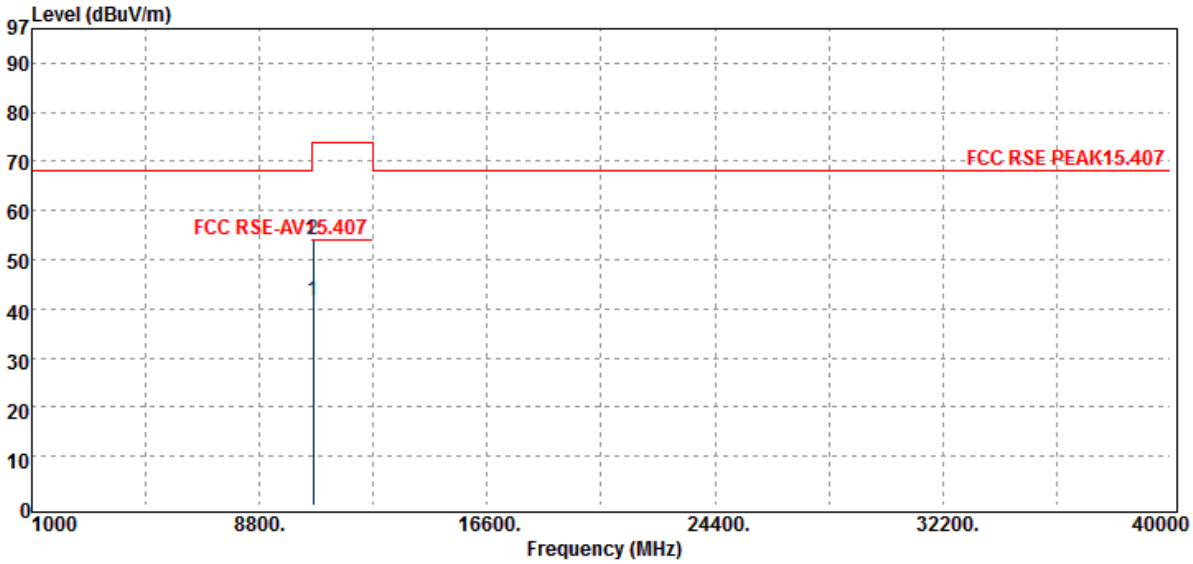
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	H	Average	22.10	18.69	40.79	54.00	-13.21
10600.00	H	Peak	34.53	18.69	53.22	74.00	-20.78

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10640.00	H	Average	22.08	19.02	41.10	54.00	-12.90
10640.00	H	Peak	33.55	19.02	52.57	74.00	-21.43

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10640.00	H	Average	22.47	19.02	41.49	54.00	-12.51
10640.00	H	Peak	34.92	19.02	53.94	74.00	-20.06

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

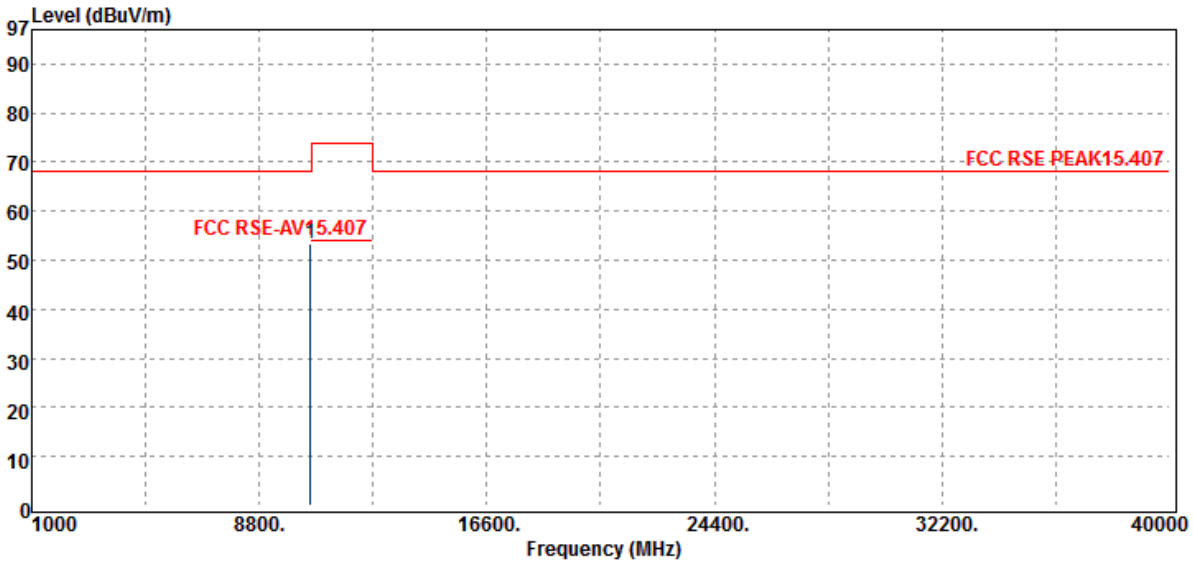
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	37.40	10.97	48.37	54.00	-5.63
5350.00	E	Peak	62.14	10.97	73.11	74.00	-0.89

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Average	30.54	10.97	41.51	54.00	-12.49
5350.00	E	Peak	47.52	10.97	58.49	74.00	-15.51

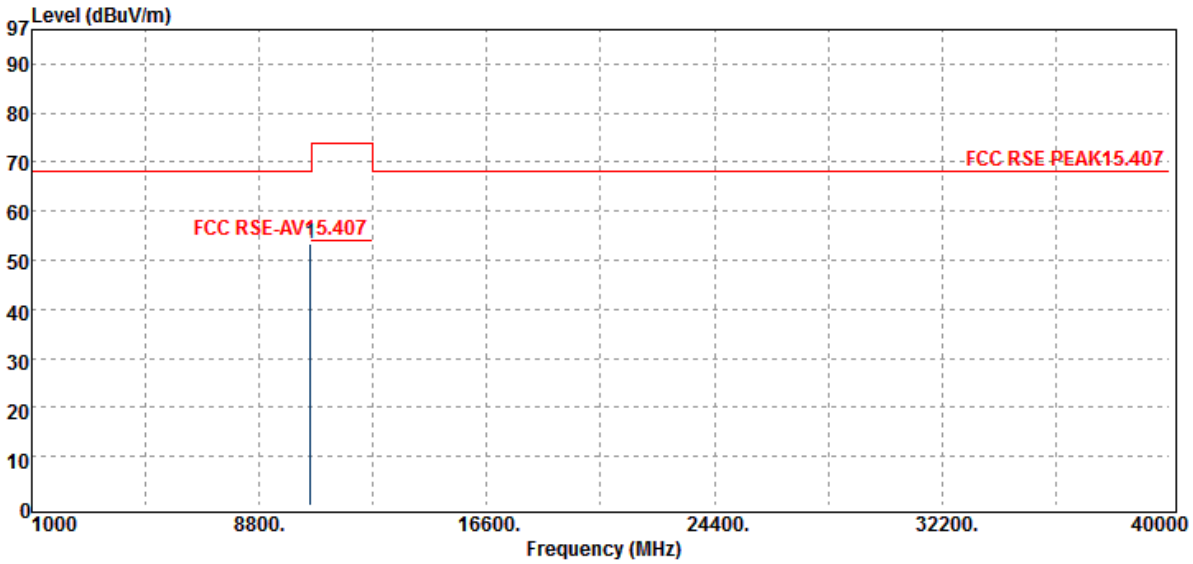
Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



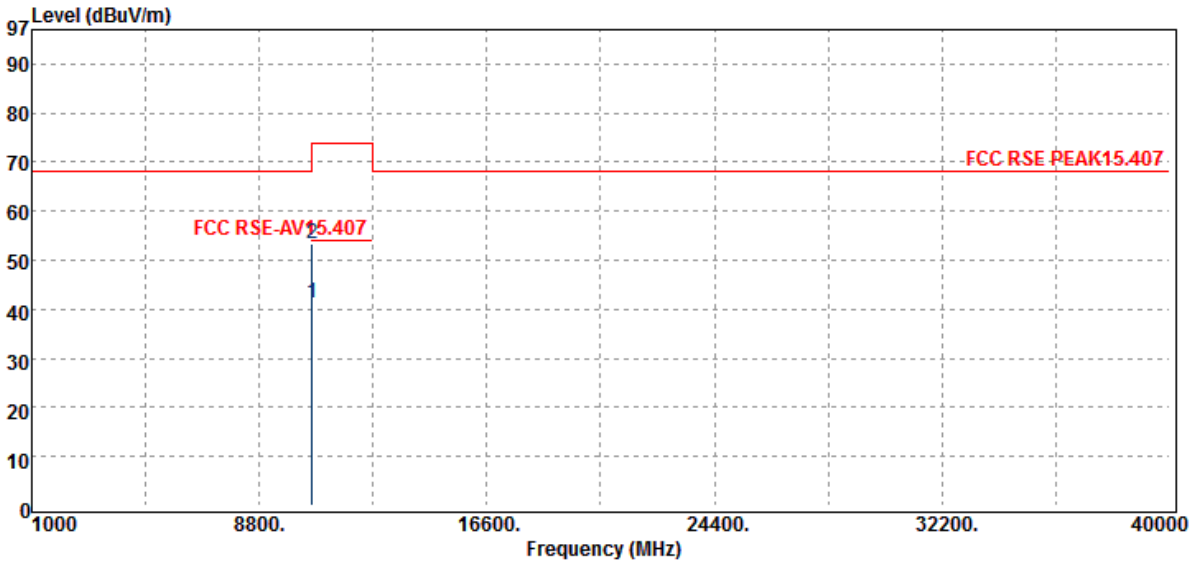
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10540.00	H	Peak	35.03	18.45	53.48	68.30	-14.82

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



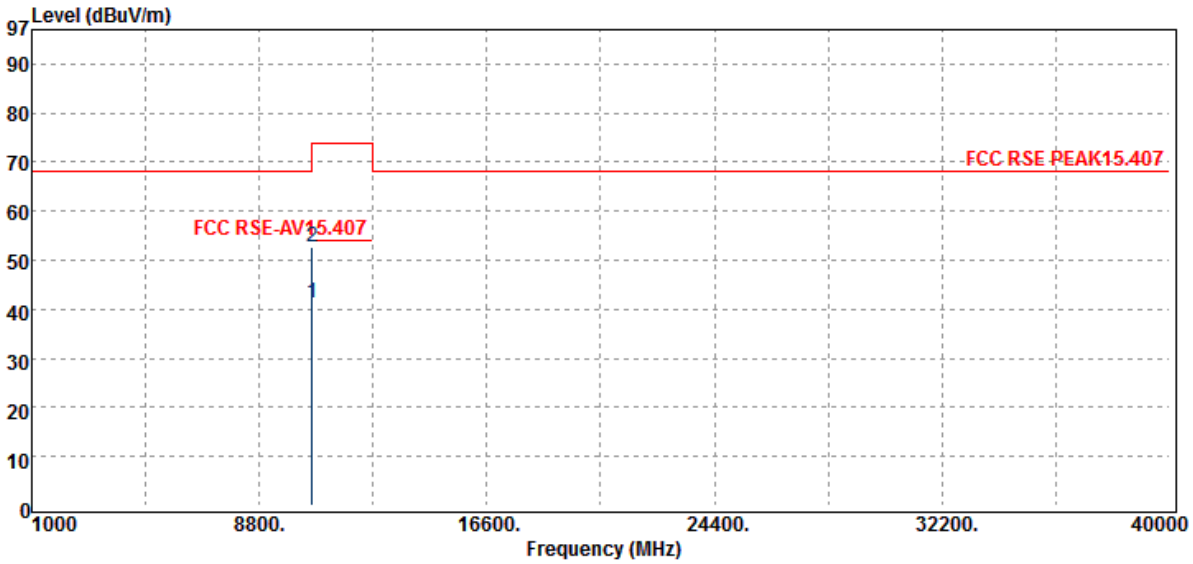
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10540.00	H	Peak	35.02	18.45	53.47	68.30	-14.83

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10620.00	H	Average	22.27	18.86	41.13	54.00	-12.87
10620.00	H	Peak	34.63	18.86	53.49	74.00	-20.51

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10620.00	H	Average	22.58	18.86	41.44	54.00	-12.56
10620.00	H	Peak	33.79	18.86	52.65	74.00	-21.35

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

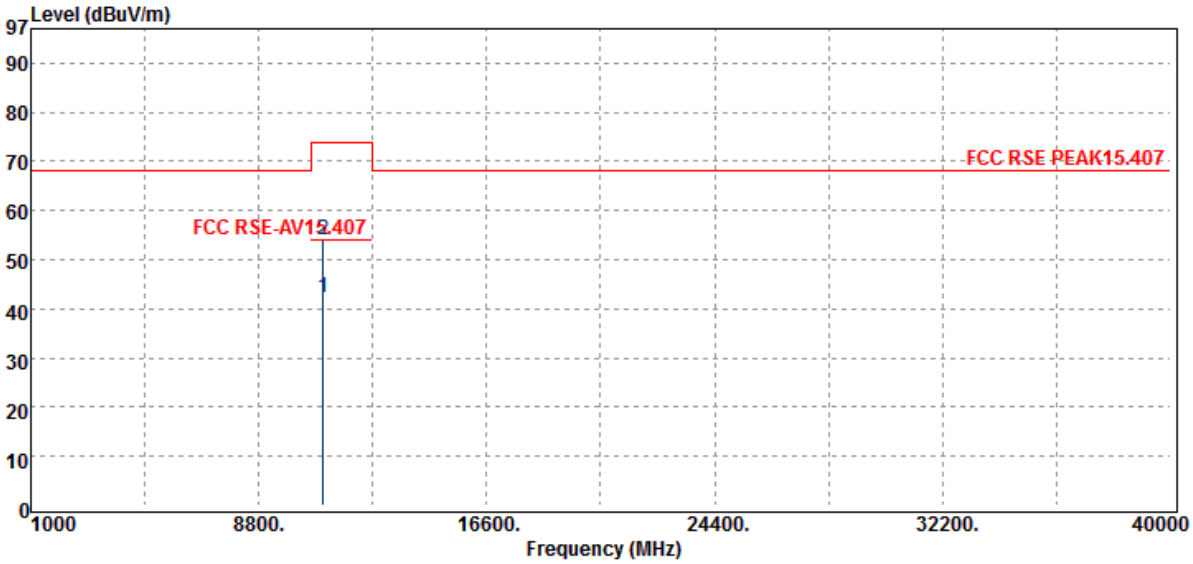
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	39.56	10.97	50.53	54.00	-3.47
5350.00	E	Peak	58.17	10.97	69.14	74.00	-4.86
5352.08	S	Average	38.11	10.97	49.08	54.00	-4.92
5352.08	S	Peak	60.74	10.97	71.71	74.00	-2.29

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Average	30.04	10.97	41.01	54.00	-12.99
5350.00	E	Peak	43.29	10.97	54.26	74.00	-19.74
5352.08	S	Average	29.75	10.97	40.72	54.00	-13.28
5352.08	S	Peak	45.93	10.97	56.90	74.00	-17.10

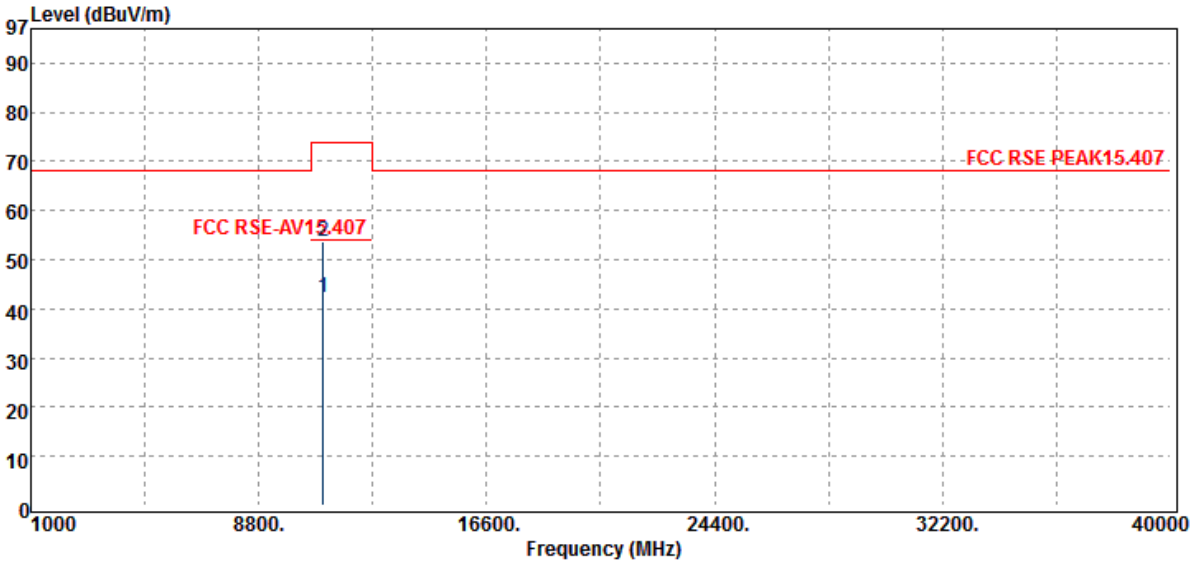
Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



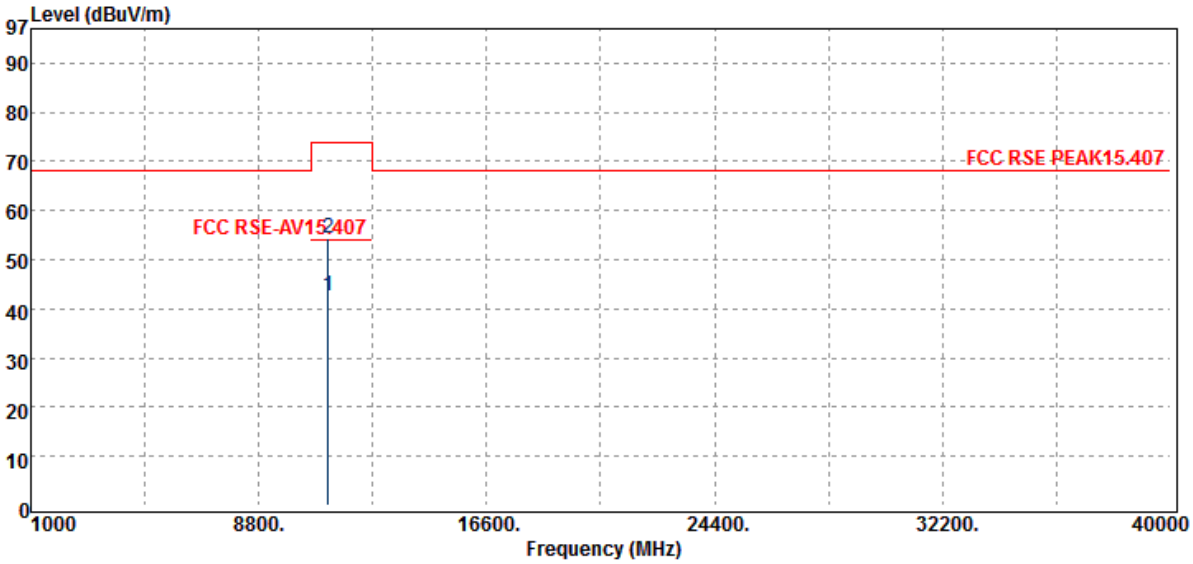
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.54	19.82	42.36	54.00	-11.64
11000.00	H	Peak	34.17	19.82	53.99	74.00	-20.01

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



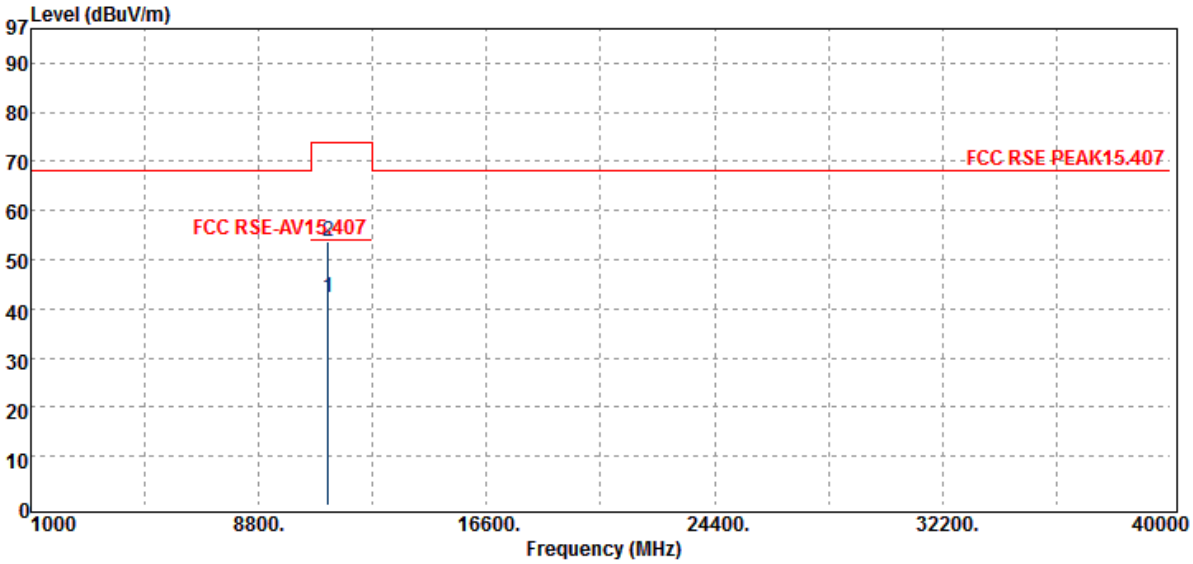
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11000.00	H	Average	22.31	19.82	42.13	54.00	-11.87
11000.00	H	Peak	33.79	19.82	53.61	74.00	-20.39

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



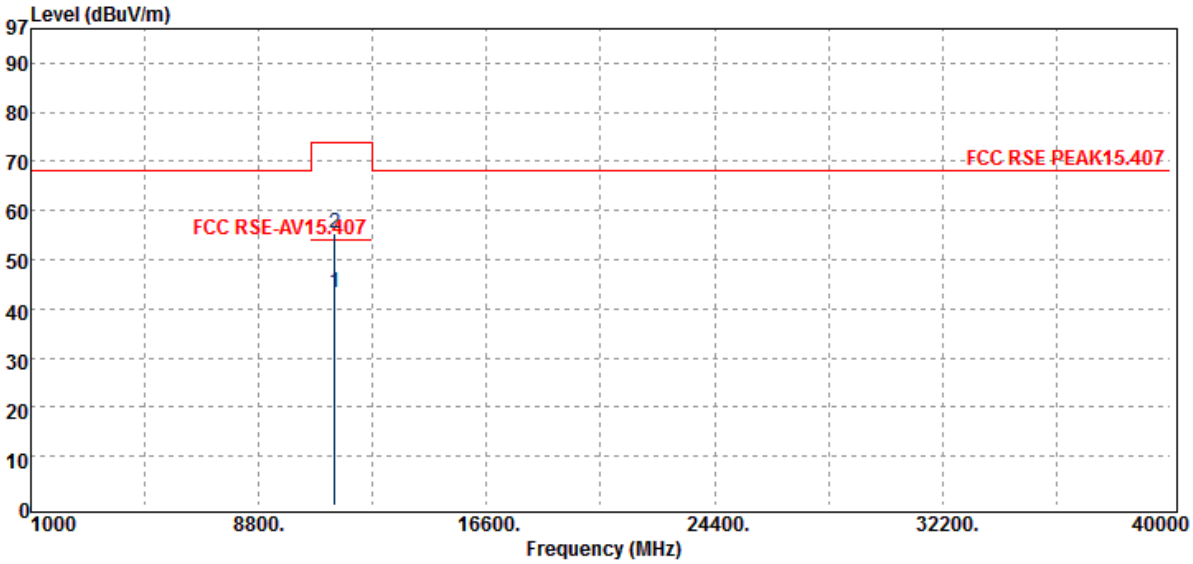
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	22.37	20.21	42.58	54.00	-11.42
11160.00	H	Peak	34.22	20.21	54.43	74.00	-19.57

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



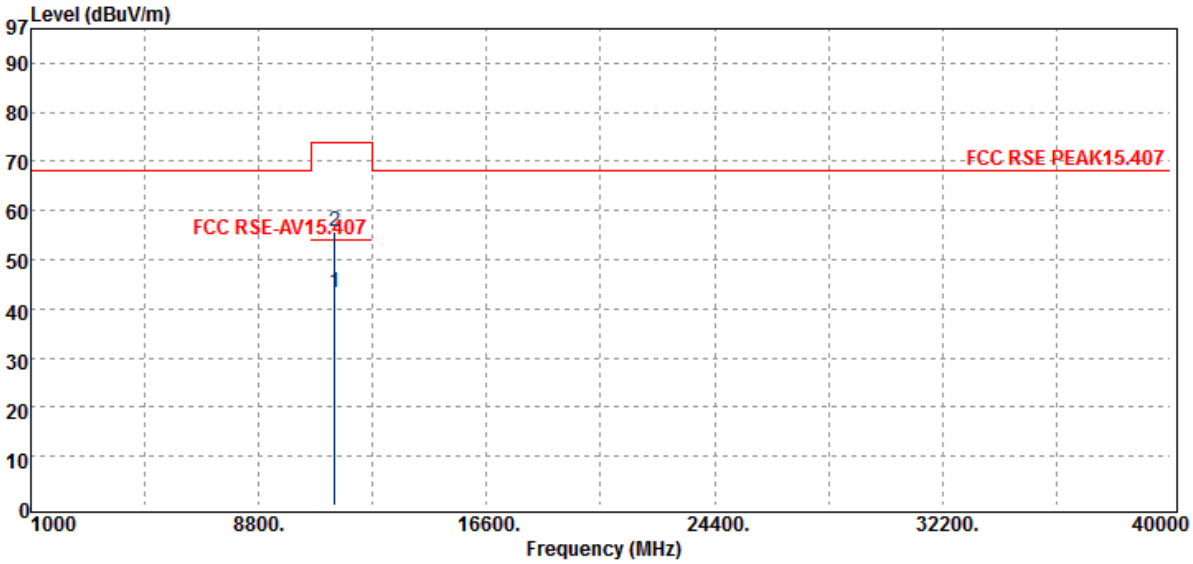
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11160.00	H	Average	22.20	20.21	42.41	54.00	-11.59
11160.00	H	Peak	33.36	20.21	53.57	74.00	-20.43

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.69	20.65	43.34	54.00	-10.66
11400.00	H	Peak	34.58	20.65	55.23	74.00	-18.77

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.52	20.65	43.17	54.00	-10.83
11400.00	H	Peak	35.13	20.65	55.78	74.00	-18.22

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Average	30.54	10.89	41.43	54.00	-12.57
5460.00	E	Peak	45.35	10.89	56.24	74.00	-17.76
5468.12	S	Average	33.33	10.90	44.23	54.00	-9.77
5468.12	S	Peak	59.29	10.90	70.19	74.00	-3.81
5470.00	E	Average	31.68	10.91	42.59	54.00	-11.41
5470.00	E	Peak	53.15	10.91	64.06	74.00	-9.94

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Average	29.02	10.89	39.91	54.00	-14.09
5460.00	E	Peak	42.40	10.89	53.29	74.00	-20.71
5470.00	E	Average	29.94	10.91	40.85	54.00	-13.15
5470.00	E	Peak	50.04	10.91	60.95	74.00	-13.05

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

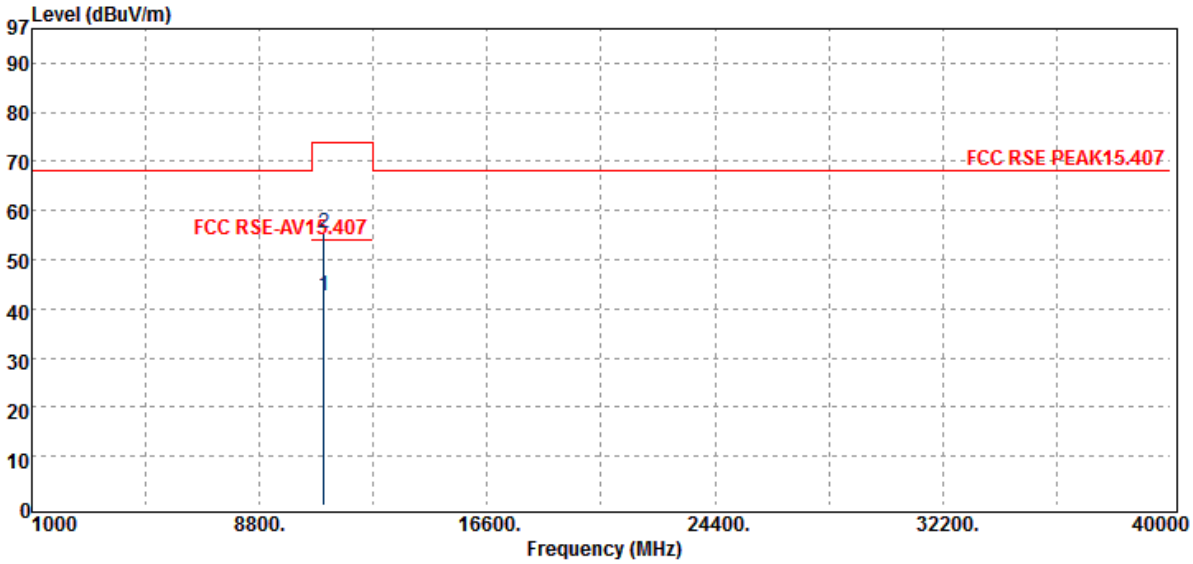
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	37.52	11.04	48.56	54.00	-5.44
5725.00	E	Peak	60.74	11.04	71.78	74.00	-2.22

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	31.60	11.04	42.64	54.00	-11.36
5725.00	E	Peak	47.79	11.04	58.83	74.00	-15.17

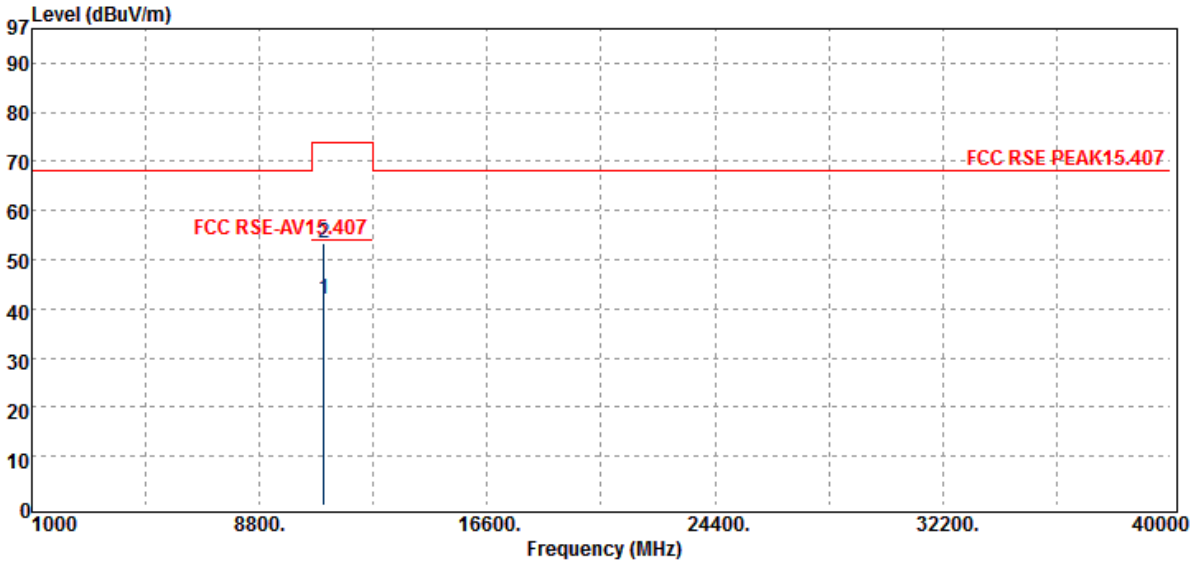
Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



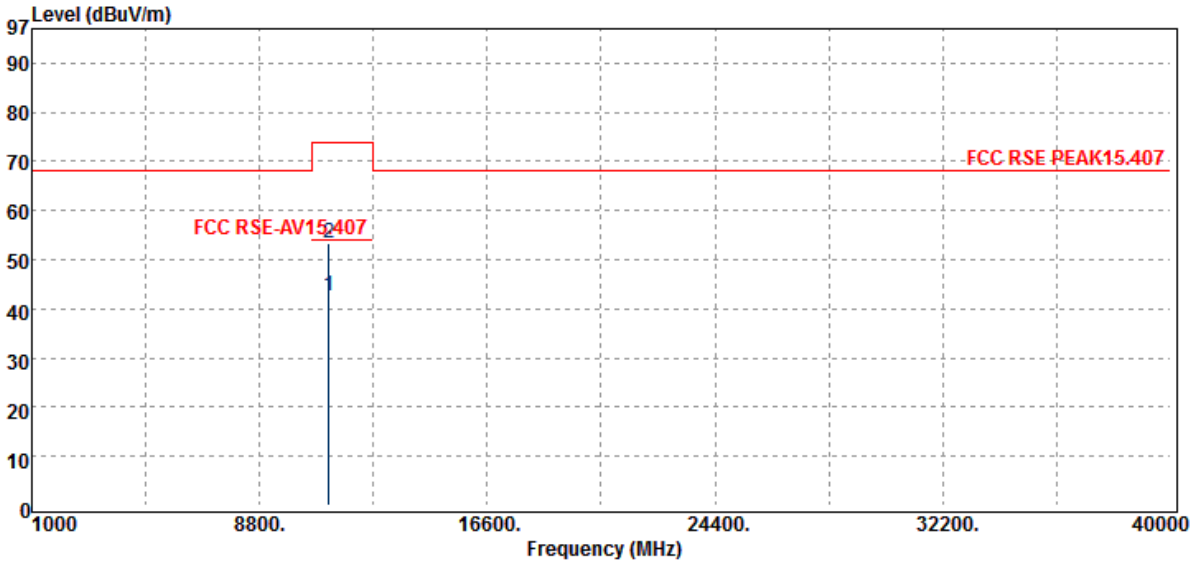
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.67	19.82	42.49	54.00	-11.51
11000.00	H	Peak	35.48	19.82	55.30	74.00	-18.70

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



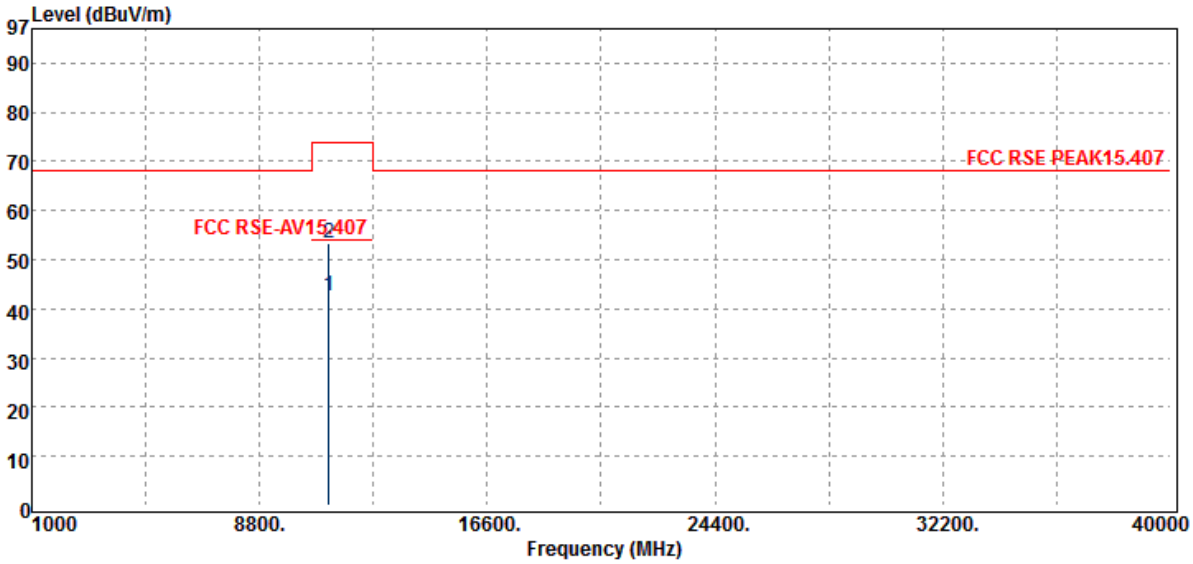
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Average	22.28	19.82	42.10	54.00	-11.90
11000.00	H	Peak	33.69	19.82	53.51	74.00	-20.49

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



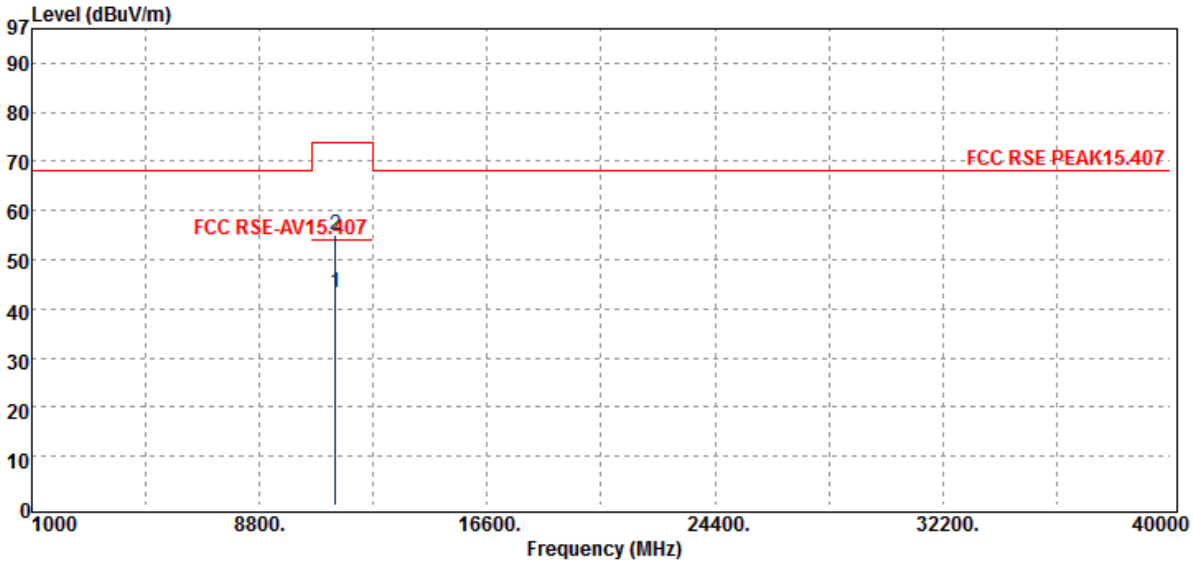
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	22.40	20.21	42.61	54.00	-11.39
11160.00	H	Peak	33.12	20.21	53.33	74.00	-20.67

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



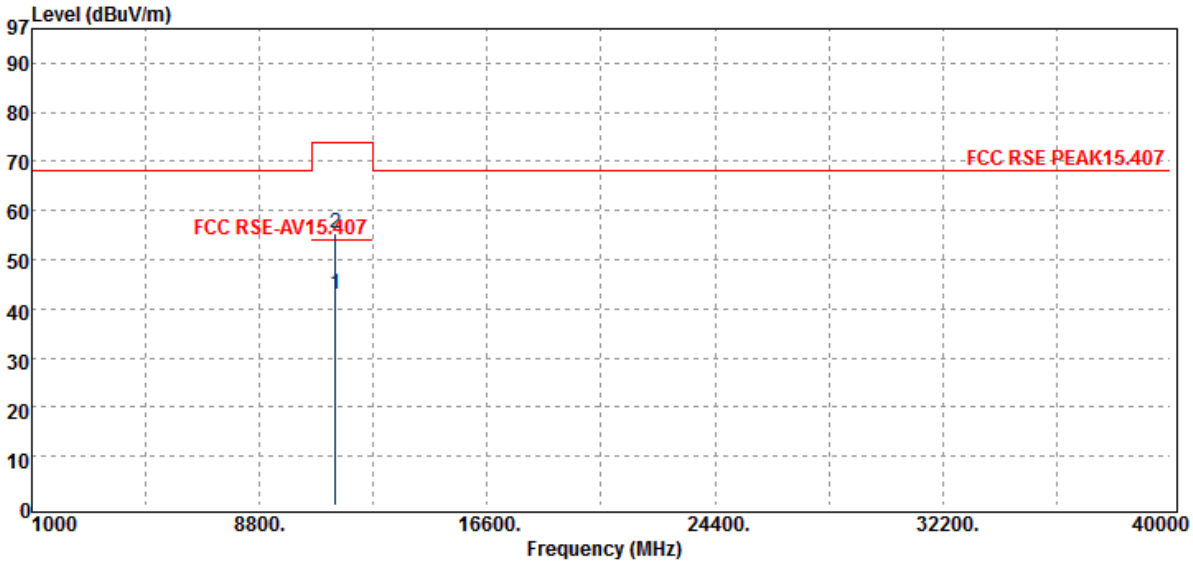
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11160.00	H	Average	22.29	20.21	42.50	54.00	-11.50
11160.00	H	Peak	33.29	20.21	53.50	74.00	-20.50

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.68	20.65	43.33	54.00	-10.67
11400.00	H	Peak	34.31	20.65	54.96	74.00	-19.04

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11400.00	H	Average	22.41	20.65	43.06	54.00	-10.94
11400.00	H	Peak	34.72	20.65	55.37	74.00	-18.63

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	31.07	10.89	41.96	54.00	-12.04
5460.00	E	Peak	48.22	10.89	59.11	74.00	-14.89
5470.00	E	Average	34.66	10.91	45.57	54.00	-8.43
5470.00	E	Peak	61.03	10.91	71.94	74.00	-2.06

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	28.83	10.89	39.72	54.00	-14.28
5460.00	E	Peak	41.84	10.89	52.73	74.00	-21.27
5470.00	E	Average	29.56	10.91	40.47	54.00	-13.53
5470.00	E	Peak	48.89	10.91	59.80	74.00	-14.20

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

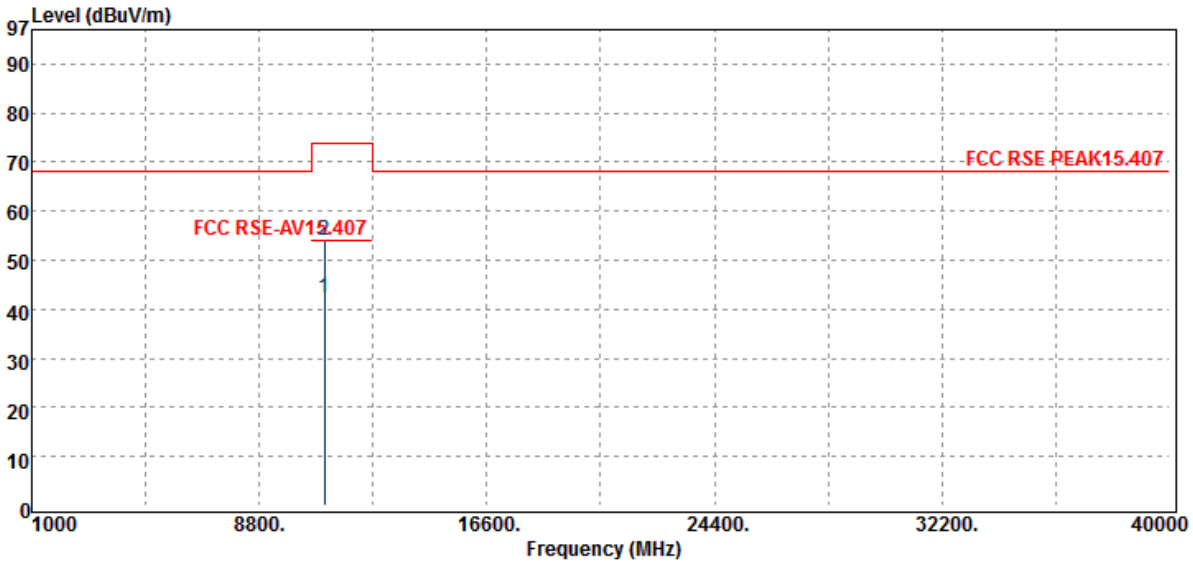
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	40.42	11.04	51.46	54.00	-2.54
5725.00	E	Peak	60.29	11.04	71.33	74.00	-2.67

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	31.61	11.04	42.65	54.00	-11.35
5725.00	E	Peak	51.16	11.04	62.20	74.00	-11.80

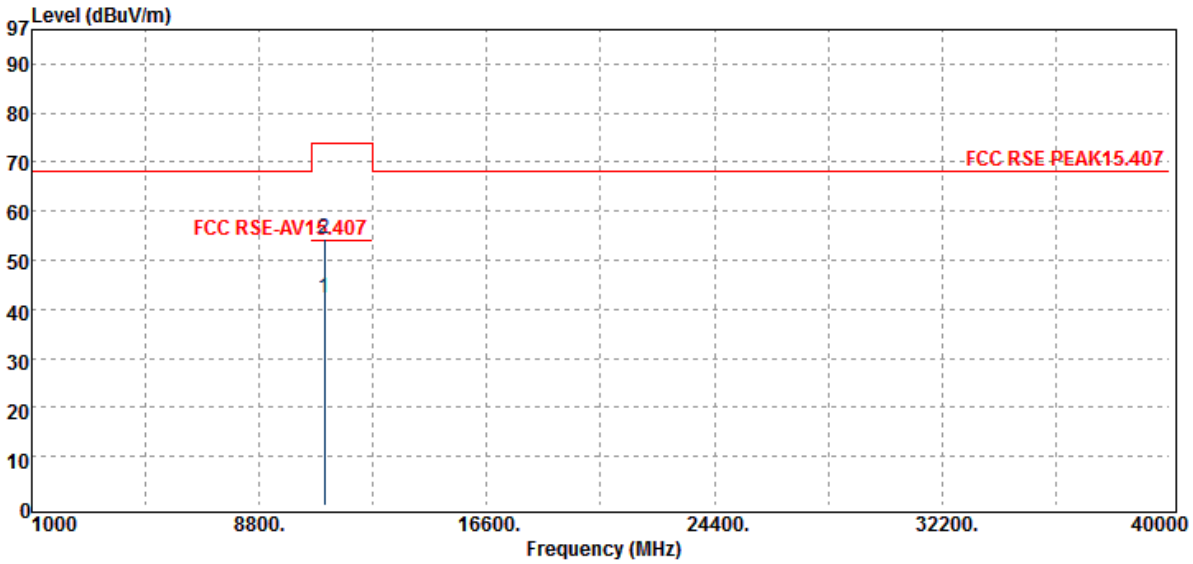
Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



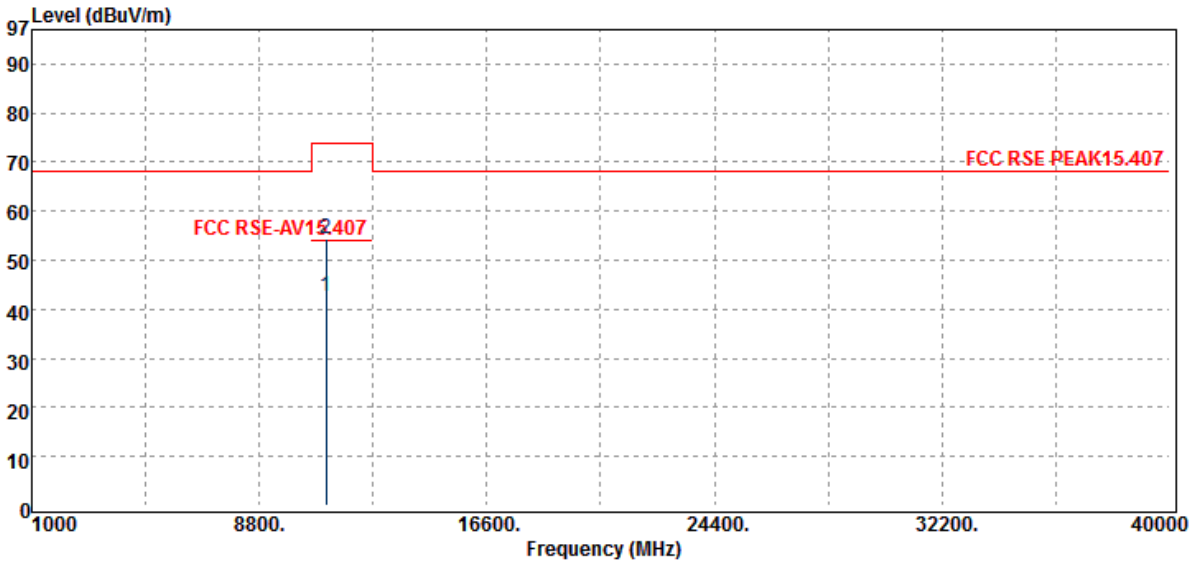
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	H	Average	22.32	19.81	42.13	54.00	-11.87
11020.00	H	Peak	34.30	19.81	54.11	74.00	-19.89

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



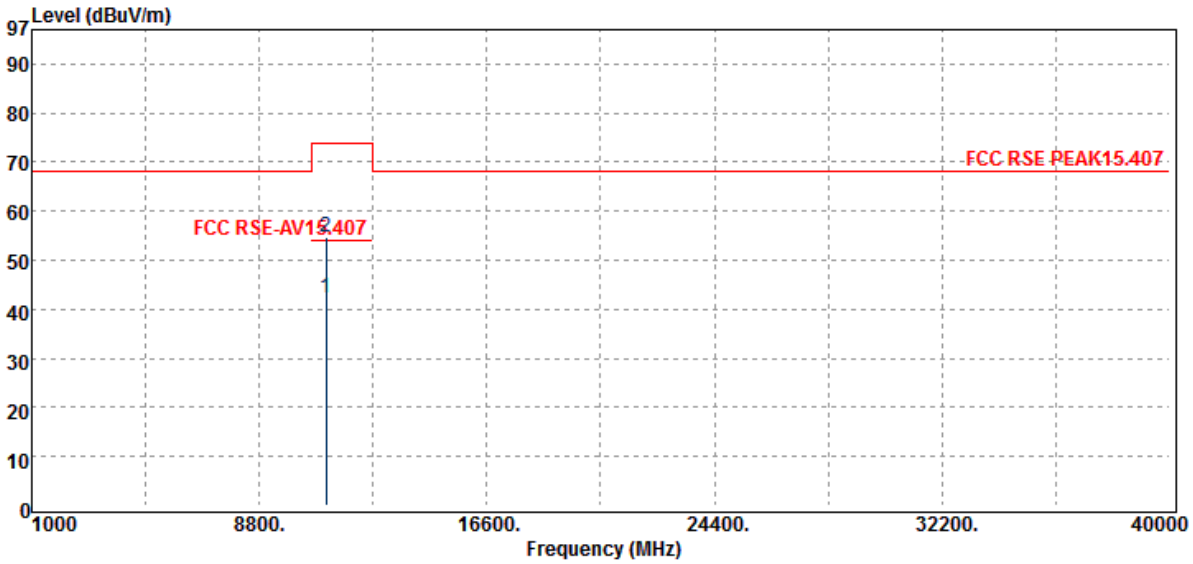
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11020.00	H	Average	22.34	19.81	42.15	54.00	-11.85
11020.00	H	Peak	34.40	19.81	54.21	74.00	-19.79

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



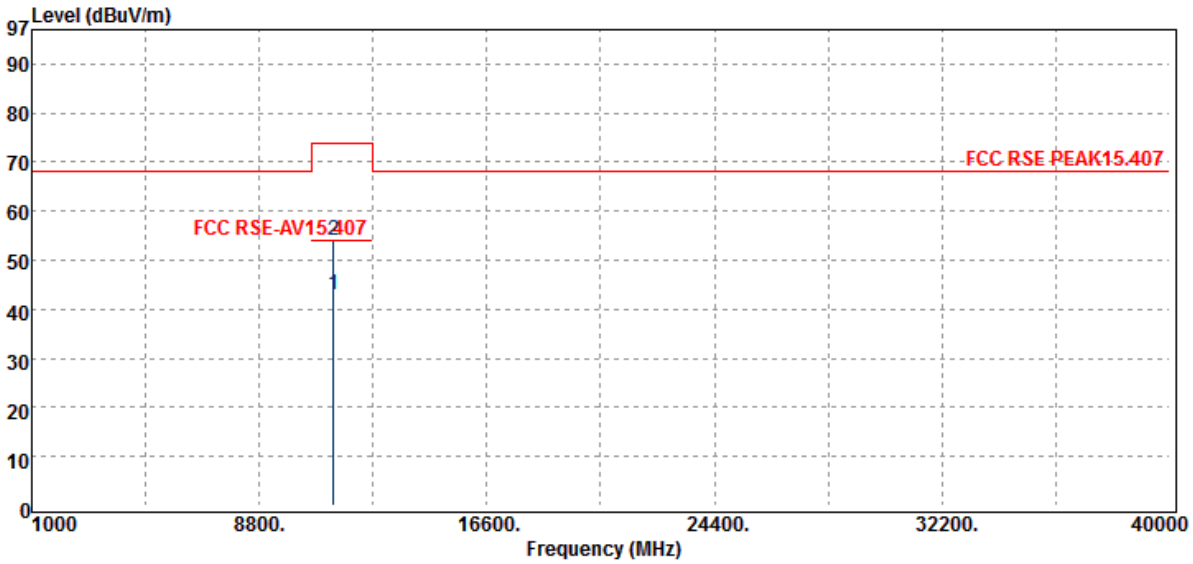
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	22.28	20.23	42.51	54.00	-11.49
11100.00	H	Peak	34.08	20.23	54.31	74.00	-19.69

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



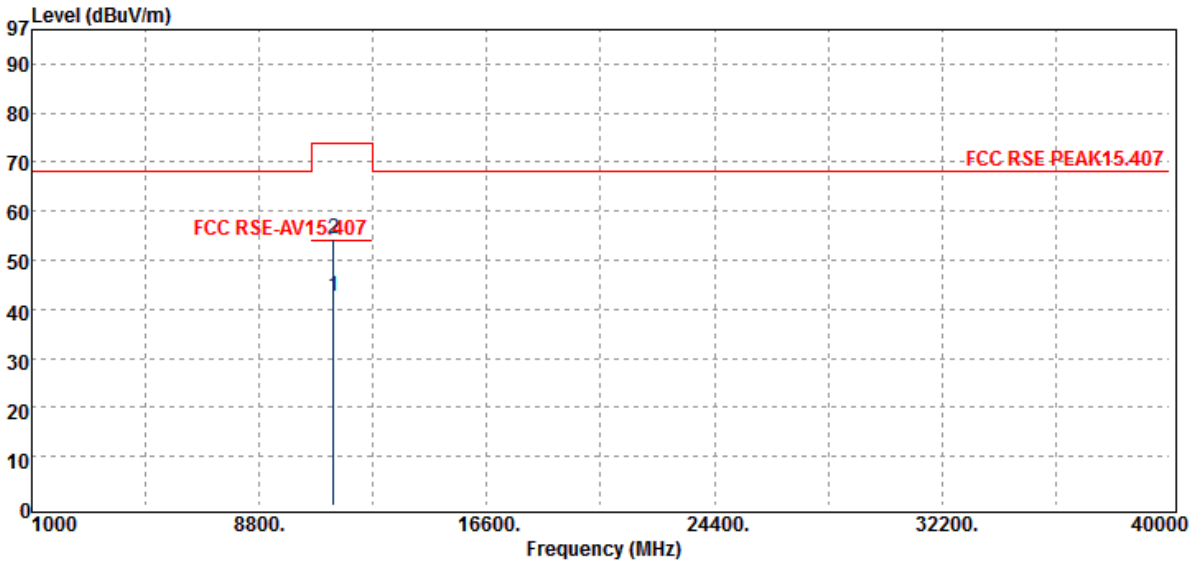
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11100.00	H	Average	21.96	20.23	42.19	54.00	-11.81
11100.00	H	Peak	34.36	20.23	54.59	74.00	-19.41

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	H	Average	22.27	20.64	42.91	54.00	-11.09
11340.00	H	Peak	33.56	20.64	54.20	74.00	-19.80

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11340.00	H	Average	22.09	20.64	42.73	54.00	-11.27
11340.00	H	Peak	33.69	20.64	54.33	74.00	-19.67

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	33.00	10.89	43.89	54.00	-10.11
5460.00	E	Peak	50.59	10.89	61.48	74.00	-12.52
5470.00	E	Average	39.92	10.91	50.83	54.00	-3.17
5470.00	E	Peak	58.48	10.91	69.39	74.00	-4.61

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Average	28.04	10.89	38.93	54.00	-15.07
5460.00	E	Peak	41.00	10.89	51.89	74.00	-22.11
5470.00	E	Average	31.11	10.91	42.02	54.00	-11.98
5470.00	E	Peak	46.96	10.91	57.87	74.00	-16.13

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

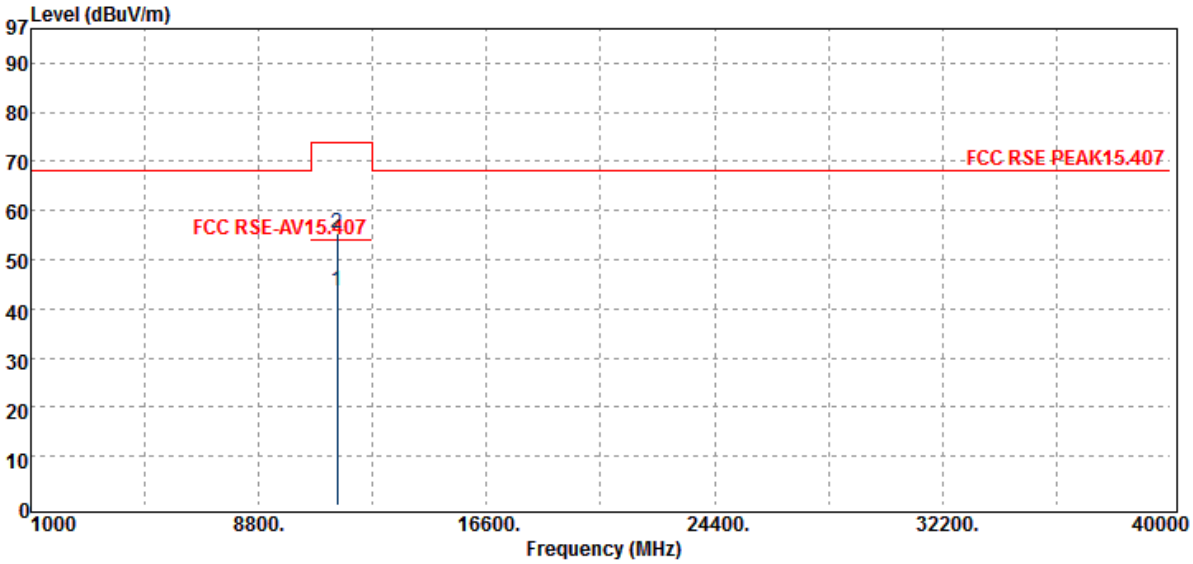
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	38.23	11.04	49.27	54.00	-4.73
5725.00	E	Peak	57.05	11.04	68.09	74.00	-5.91
5726.48	S	Average	38.45	11.04	49.49	54.00	-4.51
5726.48	S	Peak	59.00	11.04	70.04	74.00	-3.96

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Average	30.86	11.04	41.90	54.00	-12.10
5725.00	E	Peak	44.39	11.04	55.43	74.00	-18.57
5725.88	S	Average	30.55	11.04	41.59	54.00	-12.41
5725.88	S	Peak	46.65	11.04	57.69	74.00	-16.31

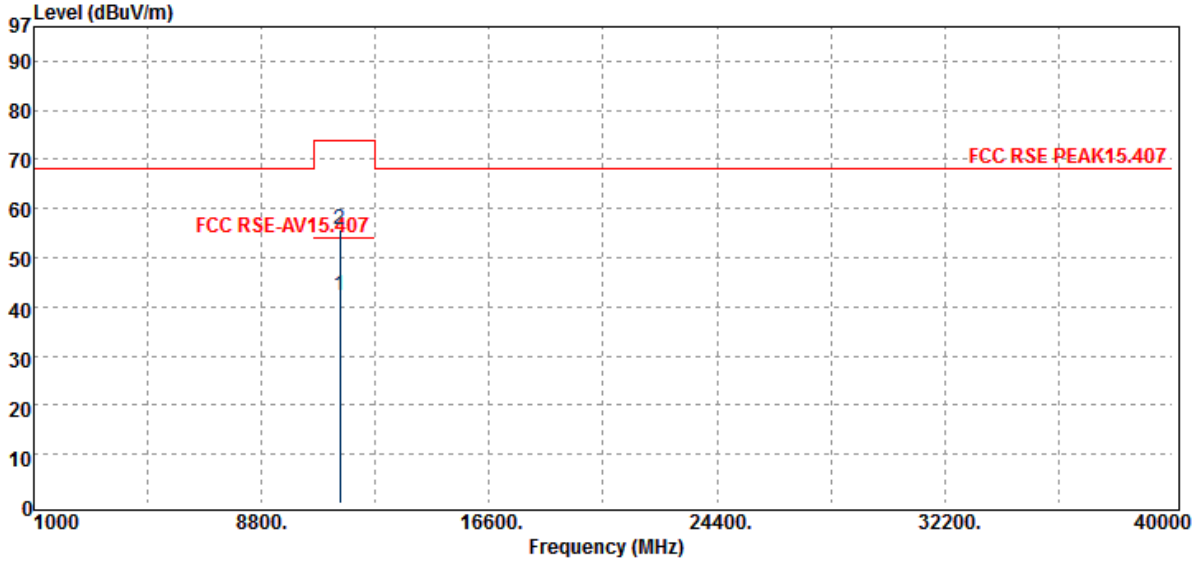
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



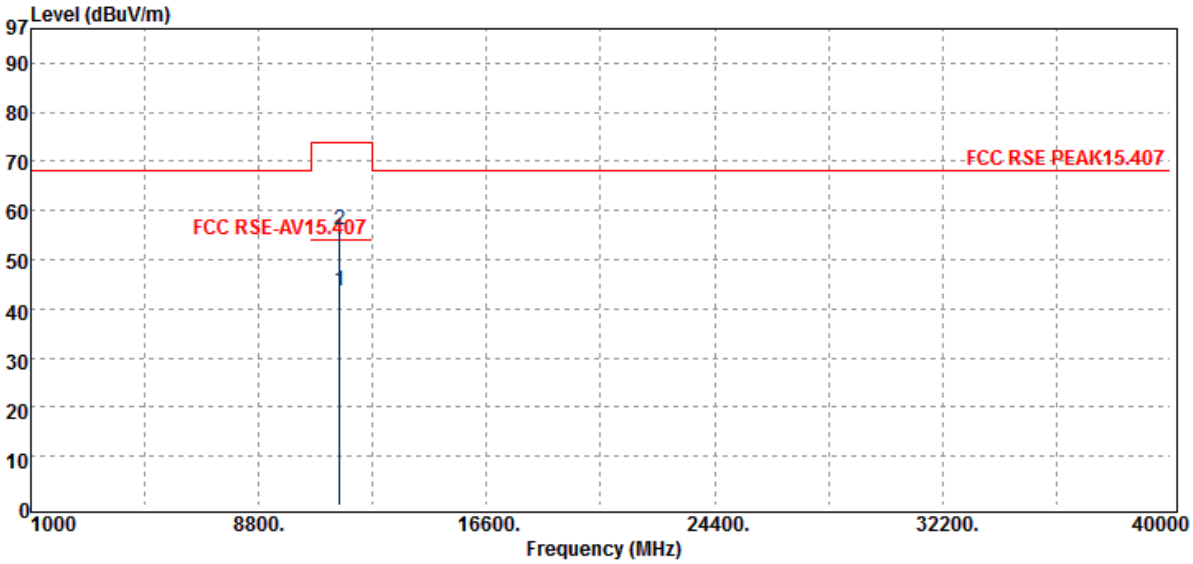
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	22.73	20.81	43.54	54.00	-10.46
11490.00	H	Peak	34.44	20.81	55.25	74.00	-18.75

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



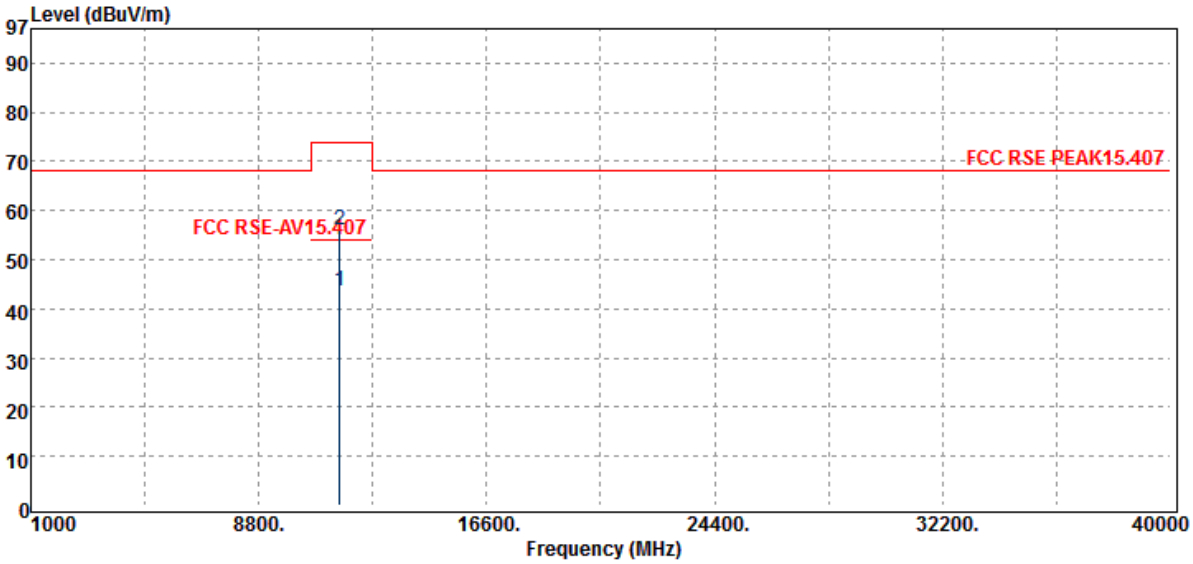
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	21.60	20.81	42.41	54.00	-11.59
11490.00	H	Peak	34.96	20.81	55.77	74.00	-18.23

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



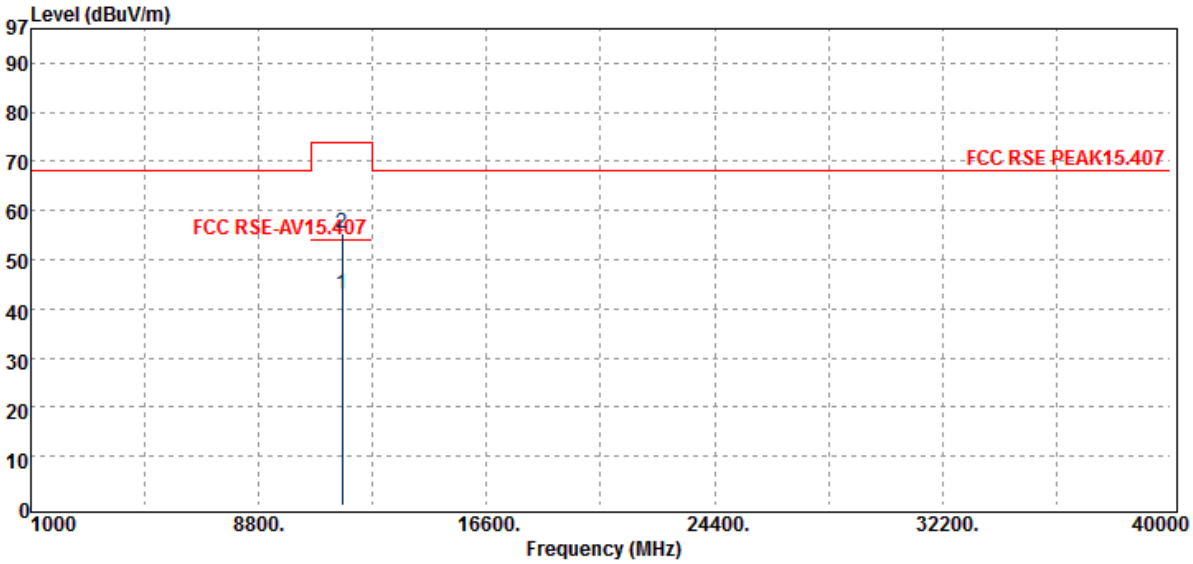
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.54	21.16	43.70	54.00	-10.30
11570.00	H	Peak	34.95	21.16	56.11	74.00	-17.89

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



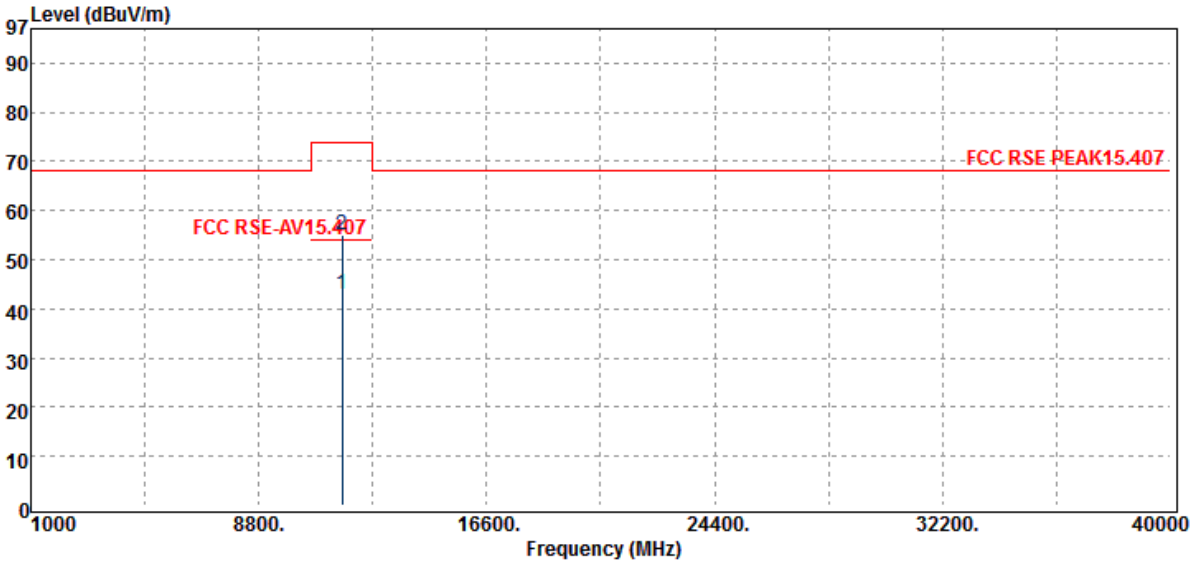
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.44	21.16	43.60	54.00	-10.40
11570.00	H	Peak	34.83	21.16	55.99	74.00	-18.01

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.16	20.93	43.09	54.00	-10.91
11650.00	H	Peak	34.31	20.93	55.24	74.00	-18.76

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.07	20.93	43.00	54.00	-11.00
11650.00	H	Peak	34.20	20.93	55.13	74.00	-18.87

Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5713.10	S	Peak	53.40	11.00	64.40	68.30	-3.90
5723.30	S	Peak	63.58	11.03	74.61	78.20	-3.59
5725.00	E	Peak	63.32	11.04	74.36	78.20	-3.84

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5723.50	S	Peak	52.24	11.03	63.27	78.20	-14.93
5725.00	E	Peak	51.19	11.04	62.23	78.20	-15.97

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

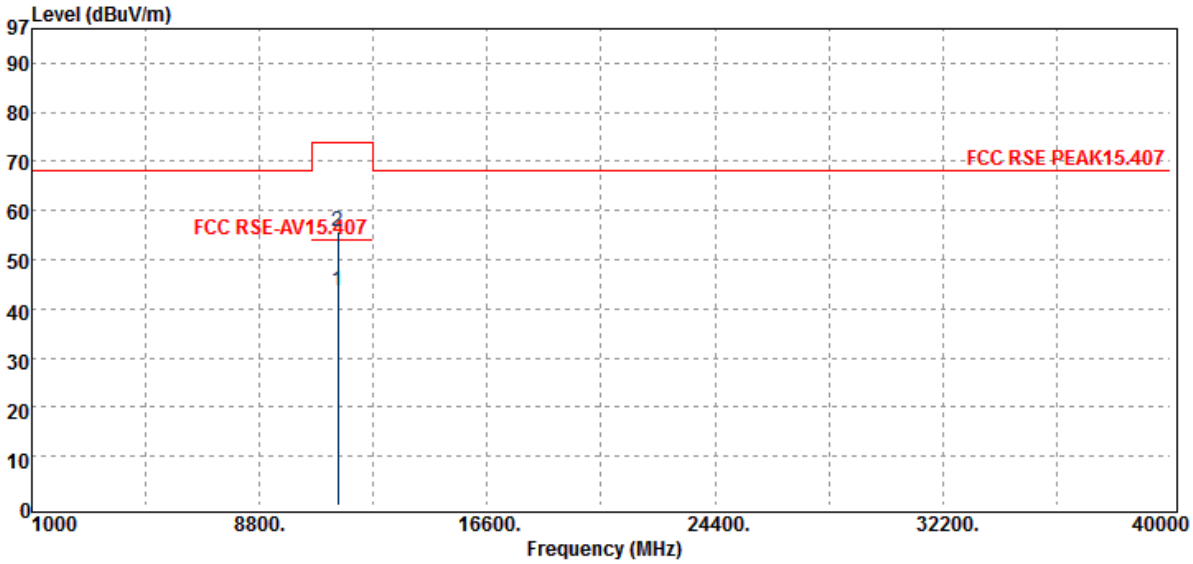
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	63.67	11.50	75.17	78.20	-3.03
5862.00	S	Peak	55.78	11.51	67.29	68.30	-1.01

Operation Band	:802.11 a	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	53.33	11.50	64.83	78.20	-13.37

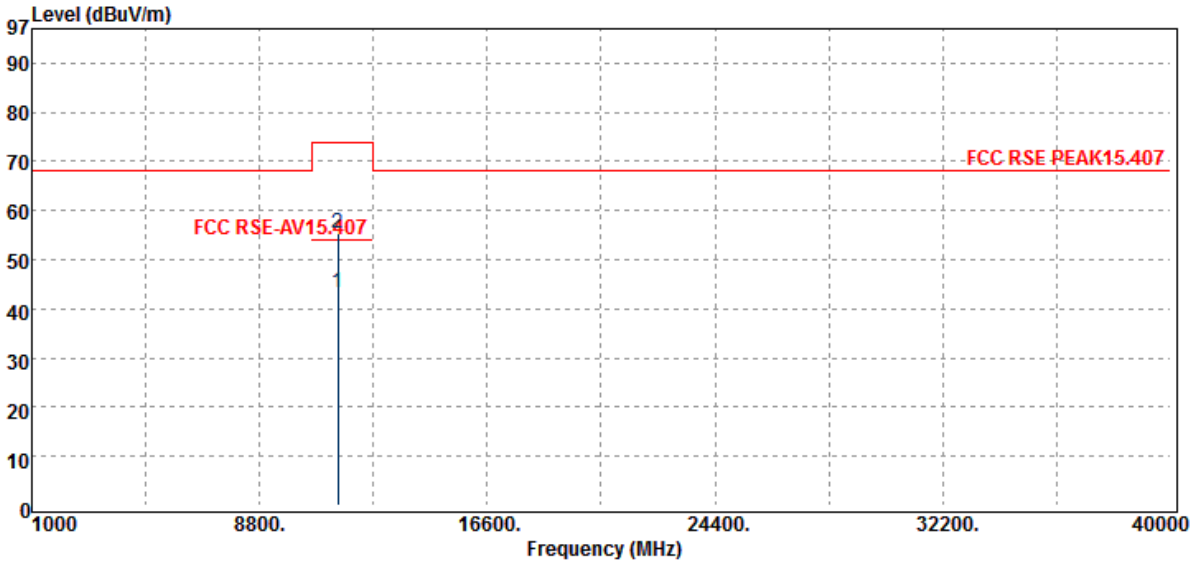
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz (MIMO)

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



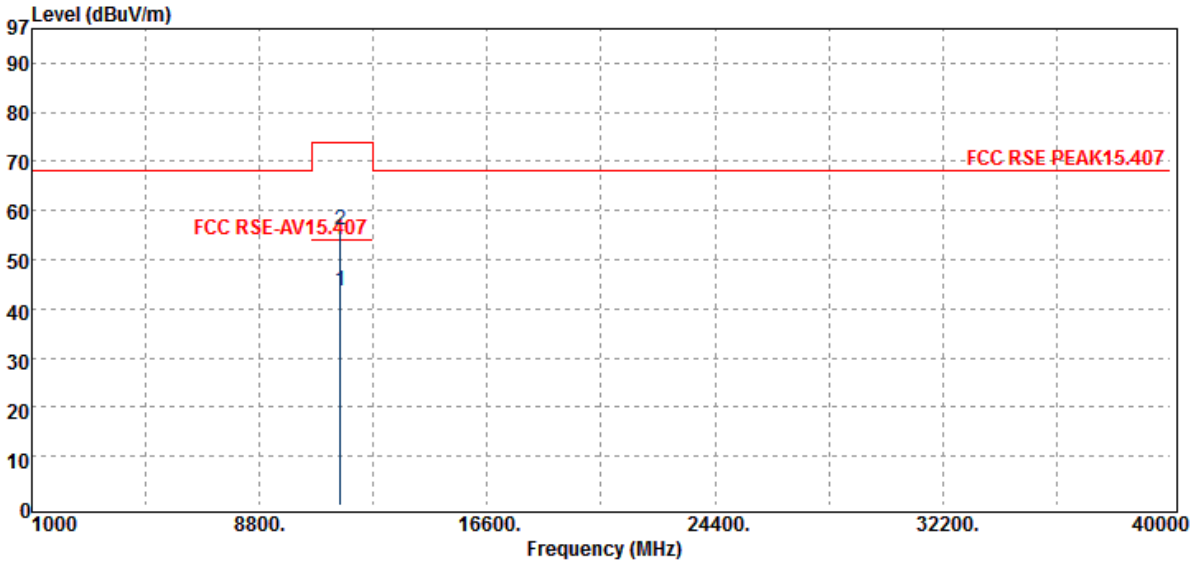
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Average	22.71	20.81	43.52	54.00	-10.48
11490.00	H	Peak	34.75	20.81	55.56	74.00	-18.44

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



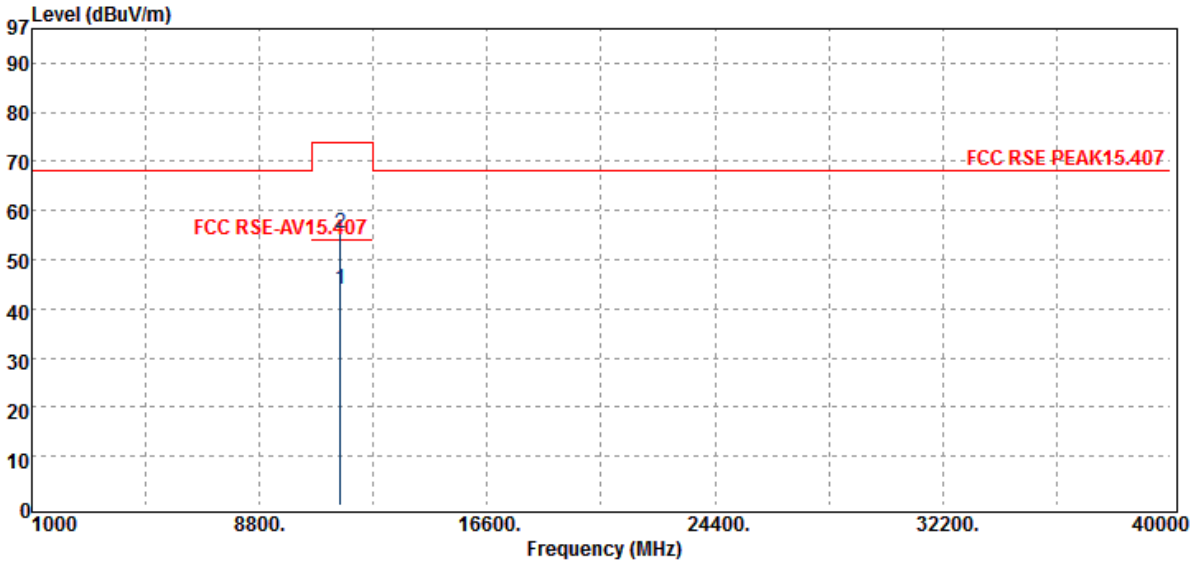
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	22.56	20.81	43.37	54.00	-10.63
11490.00	H	Peak	34.71	20.81	55.52	74.00	-18.48

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



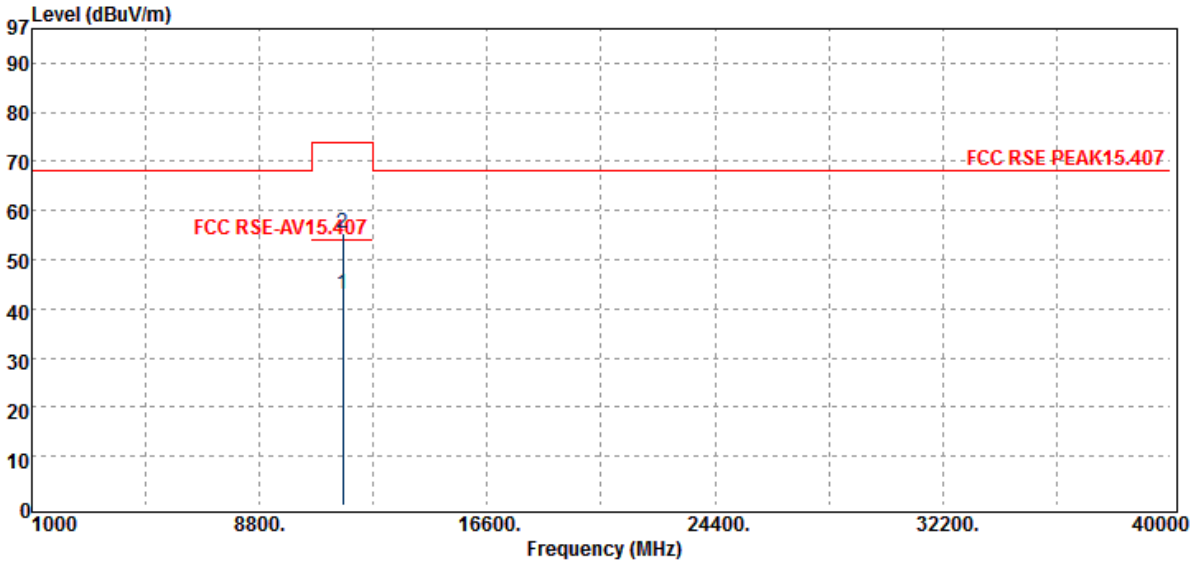
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.51	21.16	43.67	54.00	-10.33
11570.00	H	Peak	34.81	21.16	55.97	74.00	-18.03

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



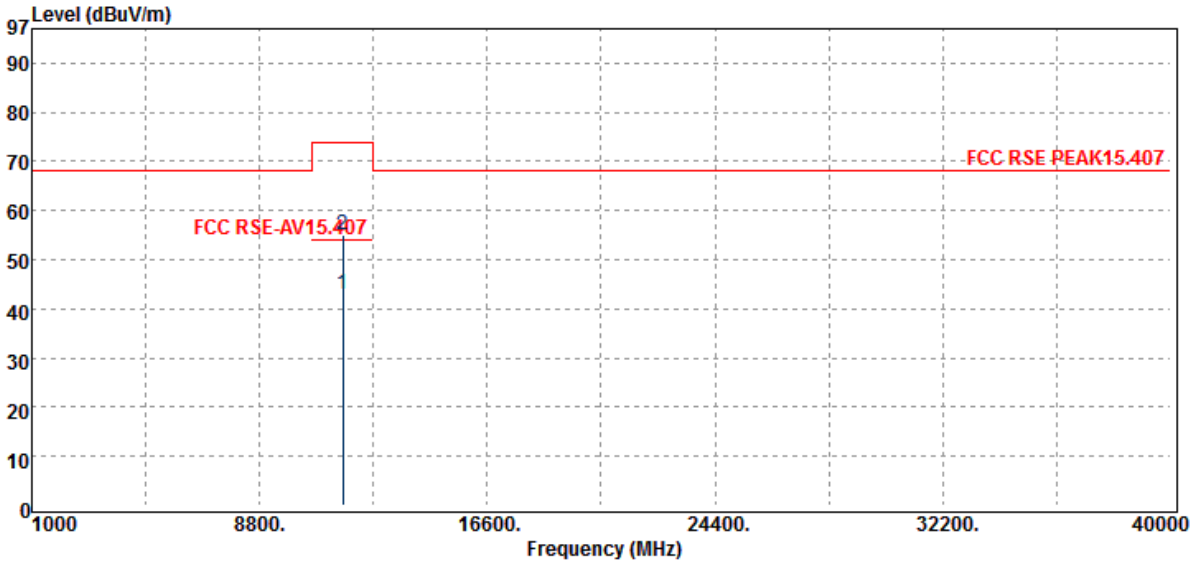
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.86	21.16	44.02	54.00	-9.98
11570.00	H	Peak	34.23	21.16	55.39	74.00	-18.61

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.16	20.93	43.09	54.00	-10.91
11650.00	H	Peak	34.48	20.93	55.41	74.00	-18.59

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	22.18	20.93	43.11	54.00	-10.89
11650.00	H	Peak	34.02	20.93	54.95	74.00	-19.05

Band edge falling to restricted band

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	62.38	11.04	73.42	78.20	-4.78

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	54.39	11.04	65.43	78.20	-12.77

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

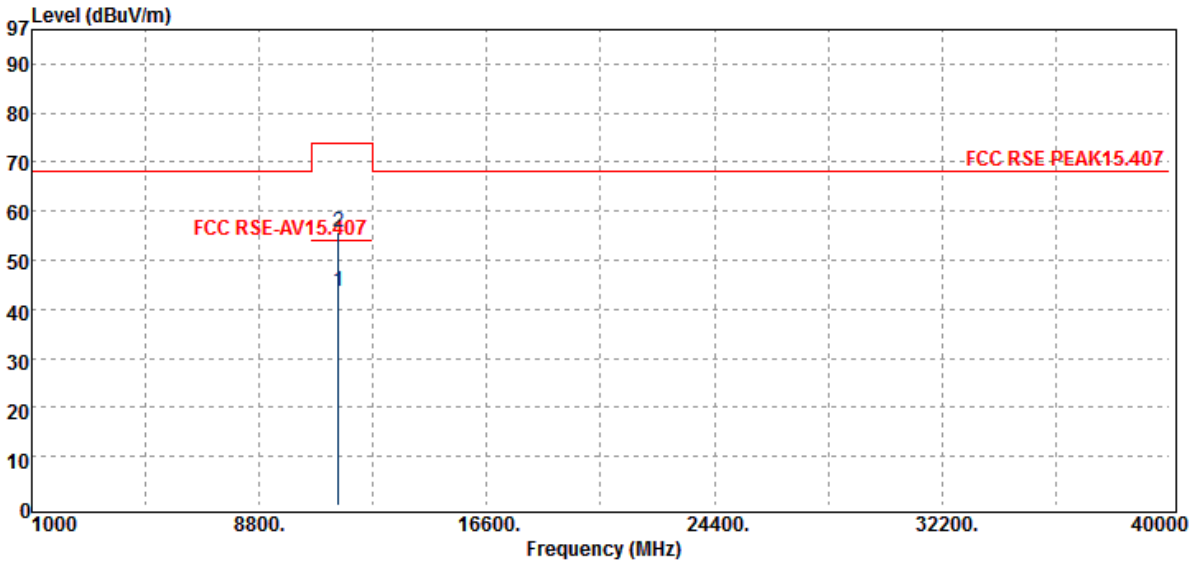
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	65.03	11.50	76.53	78.20	-1.67
5860.50	S	Peak	56.34	11.51	67.85	68.30	-0.45

Operation Band	:802.11 n20M	Test Date	:2015-02-25
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	54.82	11.50	66.32	78.20	-11.88

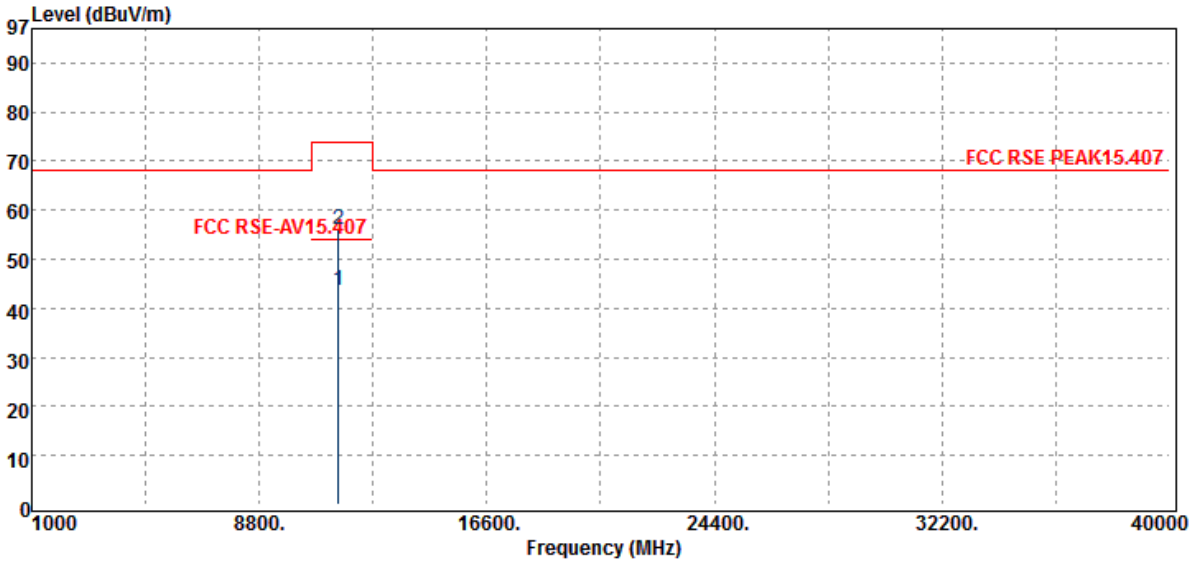
Radiated Spurious Emission Measurement Result (802.11n (5GHz)_40M) (MIMO)

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



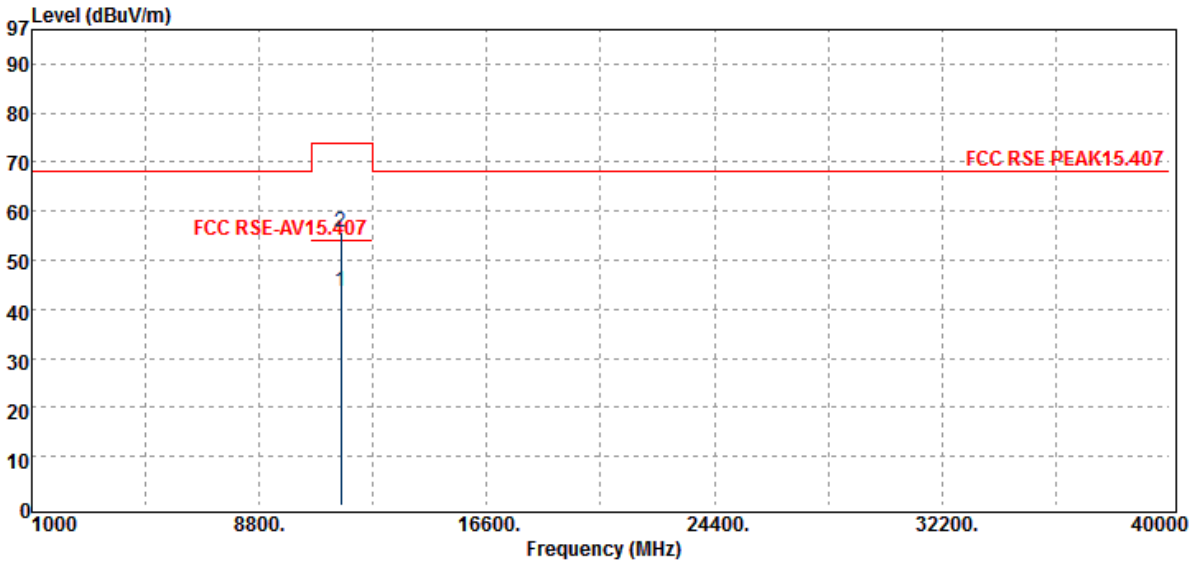
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	H	Average	22.63	21.03	43.66	54.00	-10.34
11510.00	H	Peak	34.64	21.03	55.67	74.00	-18.33

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



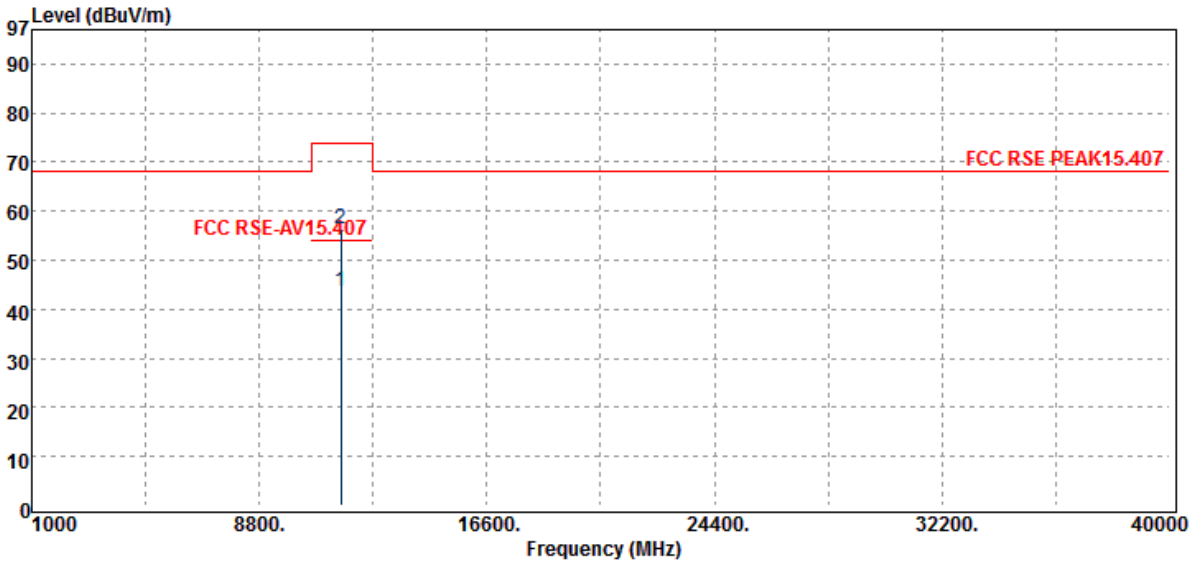
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11510.00	H	Average	22.53	21.03	43.56	54.00	-10.44
11510.00	H	Peak	35.08	21.03	56.11	74.00	-17.89

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.46	21.11	43.57	54.00	-10.43
11590.00	H	Peak	34.45	21.11	55.56	74.00	-18.44

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.69	21.11	43.80	54.00	-10.20
11590.00	H	Peak	35.24	21.11	56.35	74.00	-17.65

Band edge falling to restricted band

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	61.83	11.04	72.87	78.20	-5.33

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	50.49	11.04	61.53	78.20	-16.67

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	54.84	11.50	66.34	78.20	-11.86
5853.80	S	Peak	58.14	11.50	69.64	78.20	-8.56
5860.90	S	Peak	56.20	11.51	67.71	68.30	-0.59

Operation Band	:802.11 n40M	Test Date	:2015-02-25
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	47.01	11.50	58.51	78.20	-19.69
5852.20	S	Peak	48.55	11.50	60.05	78.20	-18.15

12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

13. FREQUENCY STABILITY

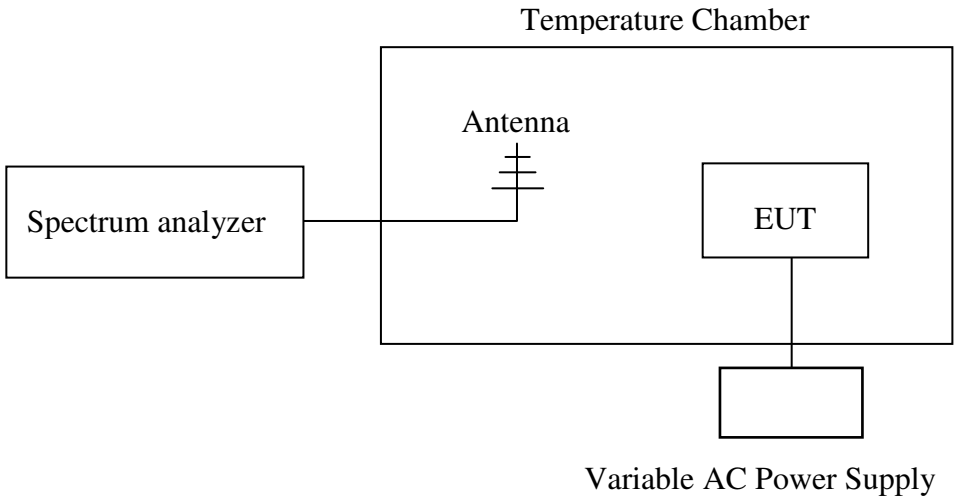
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2015.3.5
Temperature	:25 ℃	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 ℃	15V	36	5180.0000	5,180.012394	-0.0124
		44	5220.0000	5,220.012416	-0.0124
		48	5240.0000	5,240.012446	-0.0124
		52	5260.0000	5,260.012557	-0.0126
		60	5300.0000	5,300.012493	-0.0125
		64	5320.0000	5,320.012316	-0.0123
		100	5500.0000	5,500.012539	-0.0125
		116	5580.0000	5,580.012493	-0.0125
		140	5700.0000	5,700.012486	-0.0125
		149	5745.0000	5,745.012396	-0.0124
		157	5785.0000	5,785.012413	-0.0124
		165	5825.0000	5,825.012230	-0.0122
-30 ℃	15V	36	5180.0000	5,180.012413	-0.0124
		44	5220.0000	5,220.012431	-0.0124
		48	5240.0000	5,240.012457	-0.0125
		52	5260.0000	5,260.012544	-0.0125
		60	5300.0000	5,300.012518	-0.0125
		64	5320.0000	5,320.012397	-0.0124
		100	5500.0000	5,500.012522	-0.0125
		116	5580.0000	5,580.012503	-0.0125
		140	5700.0000	5,700.012534	-0.0125
		149	5745.0000	5,745.012433	-0.0124
		157	5785.0000	5,785.012457	-0.0125
		165	5825.0000	5,825.014690	-0.0147

60 ℃	15V	36	5180.0000	5,180.012351	-0.0124
		44	5220.0000	5,220.012397	-0.0124
		48	5240.0000	5,240.012411	-0.0124
		52	5260.0000	5,260.012471	-0.0125
		60	5300.0000	5,300.012433	-0.0124
		64	5320.0000	5,320.012297	-0.0123
		100	5500.0000	5,500.012488	-0.0125
		116	5580.0000	5,580.012461	-0.0125
		140	5700.0000	5,700.012413	-0.0124
		149	5745.0000	5,745.012324	-0.0123
		157	5785.0000	5,785.012381	-0.0124
		165	5825.0000	5,825.012193	-0.0122

Operation Mode	802.11 n_HT40	Test Date	2015.3.5
Temperature	:25 ℃	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25 ℃	15V	38	5190.0000	5,190.012544	-0.0125
		46	5230.0000	5,230.012531	-0.0125
		54	5270.0000	5,270.012394	-0.0124
		62	5310.0000	5,310.012431	-0.0124
		102	5510.0000	5,510.012350	-0.0123
		110	5550.0000	5,550.012422	-0.0124
		134	5670.0000	5,670.012513	-0.0125
		151	5755.0000	5,755.012390	-0.0124
		159	5795.0000	5,795.012438	-0.0124
		38	5190.0000	5,190.012583	-0.0126
-30 ℃	15V	46	5230.0000	5,230.012574	-0.0126
		54	5270.0000	5,270.012436	-0.0124
		62	5310.0000	5,310.012473	-0.0125
		102	5510.0000	5,510.012416	-0.0124
		110	5550.0000	5,550.012475	-0.0125
		134	5670.0000	5,670.012539	-0.0125
		151	5755.0000	5,755.012441	-0.0124
		159	5795.0000	5,795.012469	-0.0125
		38	5190.0000	5,190.012510	-0.0125
60 ℃	15V	46	5230.0000	5,230.012483	-0.0125
		54	5270.0000	5,270.012344	-0.0123
		62	5310.0000	5,310.012391	-0.0124
		102	5510.0000	5,510.012311	-0.0123
		110	5550.0000	5,550.012403	-0.0124
		134	5670.0000	5,670.012475	-0.0125
		151	5755.0000	5,755.012349	-0.0123
		159	5795.0000	5,795.012407	-0.0124
		38	5190.0000	5,190.012544	-0.0125

14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power power limit.

~ End of Report ~