

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: HP Slate 8 Pro

Brand Name: hp

Model No.: 7650xx

Model Difference: xx means other numerical or alphabetic characters for different regions.

FCC ID: B94HHC13CN

Report No.: ER/2014/30013

Issue Date: Mar. 25, 2014

FCC Rule Part: §15.247, Cat: DTS

Prepared for: Hewlett-Packard Company
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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
3000, Hanover Street, Palo Alto, CA 94304, USA

Product Name: HP Slate 8 Pro

Brand Name: hp

Model No.: 7650xx

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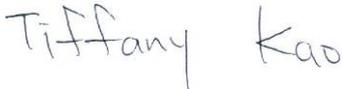
Date of test: Aug. 30, 2013 ~ Mar. 21, 2014

Date of EUT Received: Aug. 30, 2013

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 C63.4:2009. The energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247.

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

Test By:	 <hr/> <i>Nick Lin / Engineer</i>	Date	Mar. 25, 2014 <hr/>
Prepared By:	 <hr/> <i>Tiffany Kao / Clerk</i>	Date	Mar. 25, 2014 <hr/>
Approved By:	 <hr/> <i>Jim Chang / Supervisor</i>	Date	Mar. 25, 2014 <hr/>

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Version

Version No.	Date	Description
00	Mar. 25, 2014	Initial creation of document

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	HP Slate 8 Pro	
Brand Name:	hp	
Model No.:	7650xx	
Model Difference:	xx means other numerical or alphabetic characters for different regions.	
Data Cable (USB):	Model No.: N/A, Supplier: Various	
Hardware Version:	PV (3.4.66-g11700e4)	
Software Version:	Android 4.4.2	
Power Supply:	3.7Vdc from Li-ion battery or 5.3Vdc from AC/DC adapter	
	Battery:	Model No.: HSTNH-C13C-S, Supplier: Samsung SDI
	Adapter:	Model No.: 8395-V001-1080, Supplier: FOXLINK

WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Peak)	Modulation Technology
11b/g	2412-2462	11	b : 17.88dBm g : 22.81dBm	DSSS, OFDM
11n (2.4GHz)	HT20 2412-2462	11	n: 21.67dBm (MIMO Chain0) n: 21.52dBm (MIMO Chain 1) n: 24.61dBm (MIMO Chain 0+1)	OFDM

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Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11a	5725-5850	5	a: 21.70dBm	OFDM
11n (5GHz)	HT20 5725-5850	5	n: 21.61dBm (MIMO Chain0) n: 21.52dBm (MIMO Chain 1) n: 24.58dBm (MIMO Chain 0+1)	
11n (5GHz)	HT40 5725-5850	2	n: 21.65dBm (MIMO Chain0) n: 21.51dBm (MIMO Chain 1) n: 24.59dBm (MIMO Chain 0+1)	
Antenna Designation:			PIFA Antenna 1. Main: Part NO.: HP4589-12-000-C (DC33001FV30) 2.4GHz: -0.34dBi / 5GHz: -0.04dBi 2. Aux: Part NO.: HP4590-12-000-C (DC33001FV40) 2.4GHz: -1.94dBi / 5GHz: -0.04dBi	
Modulation type			CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM	
Transition Rate:			802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps	

The 2.4G max antenna gain is -0.34dBi which was choosing for Radiated Spurious Emission test.

The 5G max antenna gain is -0.04dBi which was choosing for Radiated Spurious Emission test.

The EUT is in compliance with FCC §15.247 at which the frequency band of 2400~2483.5, and 5725~5850MHz has been tested.

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IEEE 802.11n Spec:

MCS Index	Nss	Modulation	R	NBPS	NCBPS		NDBPS		Datarate(Mbps)			
					20MHz	40MHz	20MHz	40MHz	800nsGI		400nsGI	
									20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPS	Number of coded bite per single carrier
NCBPS	Number of coded bite per symbol
NDBPS	Number of data bite per symbol
GI	Guard interval

802.11n_HT20 MCS8 -15

MCS Index	Modulation	R	NBPS <i>(i_{SS})</i>	N _{SD}	N _{SP}	N _{CBPS}	N _{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI (see NOTE)
8	BPSK	1/2	1	52	4	104	52	13.0	14.4
9	QPSK	1/2	2	52	4	208	104	26.0	28.9
10	QPSK	3/4	2	52	4	208	156	39.0	43.3
11	16-QAM	1/2	4	52	4	416	208	52.0	57.8
12	16-QAM	3/4	4	52	4	416	312	78.0	86.7
13	64-QAM	2/3	6	52	4	624	416	104.0	115.6
14	64-QAM	3/4	6	52	4	624	468	117.0	130.0
15	64-QAM	5/6	6	52	4	624	520	130.0	144.4

NOTE—The 400 ns GI rate values are rounded to 1 decimal place.

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802.11n_HT40 MCS8 -15

MCS Index	Modulation	R	$N_{BPSCS}(i_{SS})$	N_{SD}	N_{SP}	N_{CBPS}	N_{DBPS}	Data rate (Mb/s)	
								800 ns GI	400 ns GI
8	BPSK	1/2	1	108	6	216	108	27.0	30.0
9	QPSK	1/2	2	108	6	432	216	54.0	60.0
10	QPSK	3/4	2	108	6	432	324	81.0	90.0
11	16-QAM	1/2	4	108	6	864	432	108.0	120.0
12	16-QAM	3/4	4	108	6	864	648	162.0	180.0
13	64-QAM	2/3	6	108	6	1296	864	216.0	240.0
14	64-QAM	3/4	6	108	6	1296	972	243.0	270.0
15	64-QAM	5/6	6	108	6	1296	1080	270.0	300.0

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **B94HHC13CN** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B under the DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4:2009. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Apr 2013 KDB558074 D01 V03 for compliance to FCC 47CFR 15.247 requirements.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number: 990257. Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the general criterion in Section 7.1 of ANSI C63.4:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2009 is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

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. according to the requirements in Section 8 and 13 and of ANSI C63.4:2009,

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission

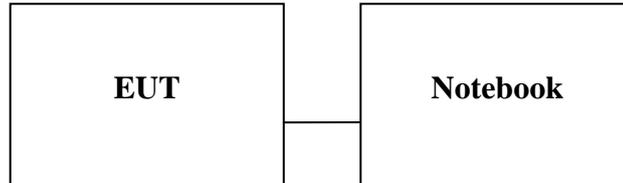


Fig. 2-2 Conducted (Antenna Port) Configuration

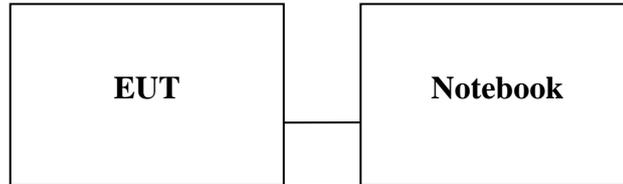


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	Lenovo	L412	LR-957X7	shielding	Un-shielding
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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Fig. 2-3 AC Power Line Conducted Emission

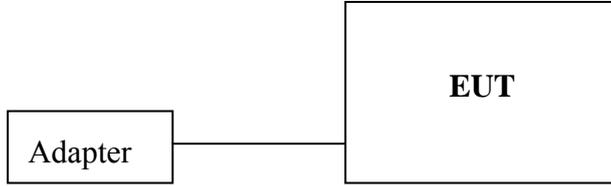


Table 2-2 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d)	Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 1Mbps lowest data rate are chosen for full testing.

802.11 g mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n_20MHz mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 6.5Mbps lowest data rate are chosen for full testing.

802.11 a mode: Channel low (5745MHz), mid (5785MHz) and high (5825MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n (5GHz) _20MHz: Lowest (5745MHz), Mid (5785MHz) and high (5825MHz) with 6.5 Mbps lowest data rate are chosen for full testing.

802.11 n (5GHz) _40MHz: Lowest (5755MHz) and high (5795MHz) with 13.5 Mbps lowest data rate are chosen for full testing.

The worst case is determined by the output power that generates the highest emission. As examined in the section of output power measurement, the section 7.5, the lowest data rate at a/b/g/n_HT20/n_HT40 resulted the highest level of fundamental emission, and therefore, the lowest data rate is chosen as the worst-case to conduct the remaining of other mandatory test cases.

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/b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was tested as resulted in pre-scanned measurement with respect to 2.4GHz 802.11b/g/n, and H position for 5.8GHz 802.11a/n_HT20/n_HT40.

Pre-scanned was done on external antenna: DC33001FV30 and antenna DC33001FV40, and antenna DC33001FV30 results higher emission at 2.4GHz, and 5.8GHz. Therefore, the completed set of measurement was done on antenna: DC33001FV30 to be presented on this test report.

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Directional gain (MIMO)

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

Gain with 5.8G is combined with the identical gain:

(i) If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

$$\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}) \text{ dB.}$$

- For power measurements on IEEE 802.11 devices,^{1,2}

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for 20-MHz channel widths with } N_{ANT} \geq 5.$$

Array gain = 0dBi (ERP/EIRP related measurement)

Array gain = 3.01dBi (peak spectral density)

MIMO gain = gain (nominal gain) + array gain = (-0.04 + 0) dBi = -0.04 dBi

Gain with 2.4G is combined with different magnitude of two antennas:

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

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

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

where

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

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

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

Directive Gain = 0 dBi

MIMO Gain = (-0.34 + 0)dBi = -0.34dBi

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 1.55dB (for Spectrum) +/- 1.42 dB (for Power Meter)
6dB Bandwidth	+/- 123.36 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.55 dB
Peak Power Density	+/- 1.55 dB
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, 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.

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6. CONDUCTED EMISSION TEST

6.1 Standard Applicable:

According to §15.207, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

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

Note

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

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	02/08/2013	02/07/2014
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2012	09/22/2013
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2013	03/22/2014
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2013	03/22/2014
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2013	01/04/2014

6.3 EUT Setup:

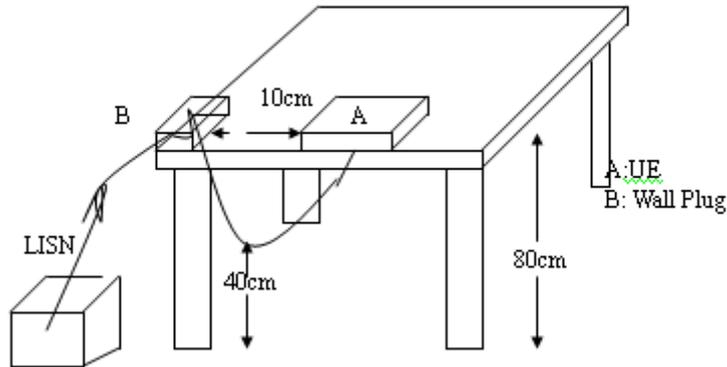
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

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

6.6 Measurement Result:

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

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

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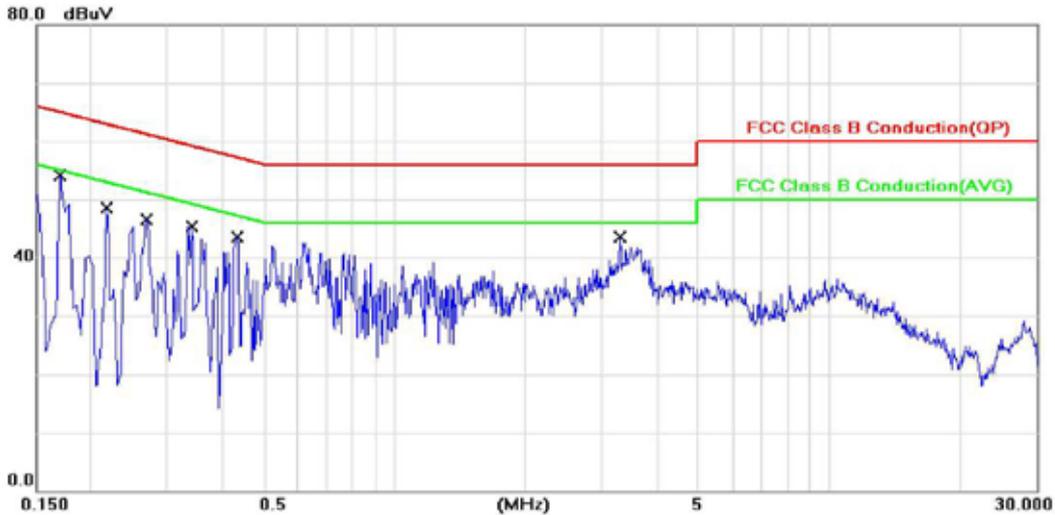
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Sep. 03, 2013	
Temperature:	26	Humidity:	60 %	Test By:	Marcus

Site	ConductionRoom	Phase:	L1	Temperature:	26 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	Tablet Computer	Distance:			
EUT:	HP Slate 8 Pro	Mode:	Operationmode		
M/N:	7650xx				

ConductedEmission

Data #2 Date: 2013/9/3 Time: 下午 01:28:37



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	36.94	9.96	46.90	64.96	-18.06	QP	
2		0.1700	21.01	9.96	30.97	54.96	-23.99	AVG	
3	*	0.2180	38.54	9.97	48.51	62.89	-14.38	QP	
4		0.2700	36.48	10.00	46.48	61.12	-14.64	QP	
5		0.3420	29.58	10.01	39.59	59.15	-19.56	QP	
6		0.3420	15.24	10.01	25.25	49.15	-23.90	AVG	
7		0.4340	27.54	10.02	37.56	57.18	-19.62	QP	
8		0.4340	11.84	10.02	21.86	47.18	-25.32	AVG	
9		3.2940	23.81	10.11	33.92	56.00	-22.08	QP	
10		3.2940	13.35	10.11	23.46	46.00	-22.54	AVG	

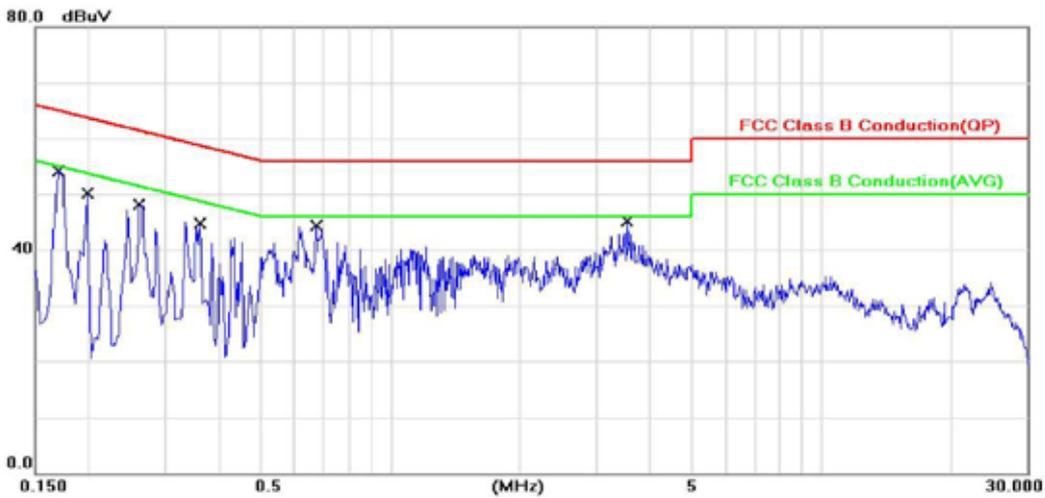
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Site: ConductionRoom	Phase: N	Temperature: 25 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
EUT: TabletComputer	Distance:	
EUT: HP Slate 8 Pro	Mode: Operationmode	
M/N: 7650xx		

Conducted Emission

Data: #1 Date: 2013/9/3 Time: 下午 01:25:20



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	37.23	9.96	47.19	64.96	-17.77	QP	
2		0.1700	22.47	9.96	32.43	54.96	-22.53	AVG	
3		0.1980	30.32	9.96	40.28	63.69	-23.41	QP	
4		0.1980	10.92	9.96	20.88	53.69	-32.81	AVG	
5		0.2620	32.68	9.99	42.67	61.37	-18.70	QP	
6		0.2620	21.62	9.99	31.61	51.37	-19.76	AVG	
7		0.3620	28.24	10.02	38.26	58.68	-20.42	QP	
8		0.3620	12.86	10.02	22.88	48.68	-25.80	AVG	
9		0.6740	28.02	10.02	38.04	56.00	-17.96	QP	
10	*	0.6740	18.67	10.02	28.69	46.00	-17.31	AVG	
11		3.5620	25.28	10.13	35.41	56.00	-20.59	QP	
12		3.5620	16.47	10.13	26.60	46.00	-19.40	AVG	

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

According to §15.247 (b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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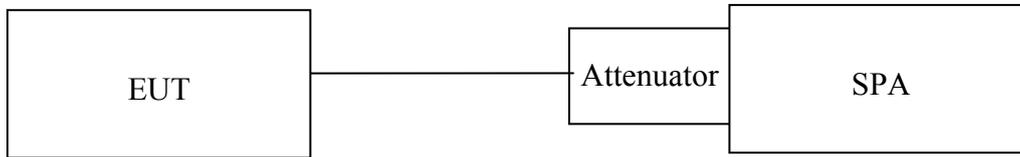
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7.2 Measurement Equipment Used:

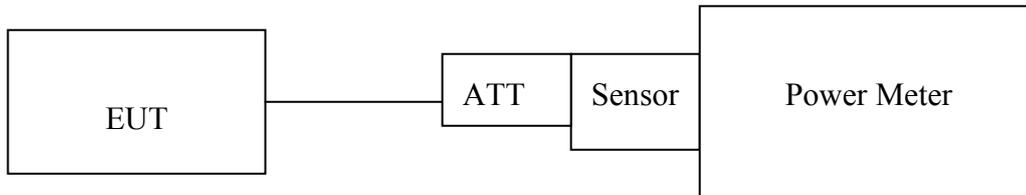
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Sensor	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2013	01/04/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014

7.3 Test Set-up:

Spectrum:



Power Meter:



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7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (**Peak power setting on Spectrum:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =peak, Sweep = Auto. Setting on spectrum is adjusted based on the mandatory procedure in 9.1.2 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 9.1.3 in KDB558074 is followed.
(**Avg. power setting on Spectrum:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =Avg., Trace avg =100, Sweep = Auto, Setting on spectrum is adjusted based on the mandatory procedure in 9.2.2.4 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 9.2.3, option 3 in KDB558074 is followed.
3. Record the max. Reading as observed from Spectrum or Power Meter.
4. Repeat above procedures until all frequency of interest measured was complete.
5. For MIMO operation, measurement is done per chain basis, and then sum the simultaneous transmitting output in linear.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (a/n_ht20,ht40) 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, resulted as obtained below, and showed only the most representative ones

Tabular results as indicates below entails the results of duty factor for all supported modes.

Formula:

$$\text{Duty Cycle} = T_{on} / (T_{on} + T_{off})$$

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Test Procedure:

Set span = 0, RBW = 1MHz, VBW = 3MHz, Detector = Peak

Duty Cycle:

	Antenna	Duty Cycle	Duty Factor (dBm)
802.11b	Single-Main	0.9936	0.03
802.11g	Single-Main	0.9252	0.34
802.11n_20 (2.4G)	MIMO-Main	0.9	0.46
	MIMO-Aux	0.9	0.46
802.11a	Single-Aux	0.9527	0.21
802.11n_20 (5G)	MIMO-Main	0.9016	0.45
	MIMO-Aux	0.9016	0.45
802.11n_40 (5G)	MIMO-Main	0.8344	0.79
	MIMO-Aux	0.8344	0.79

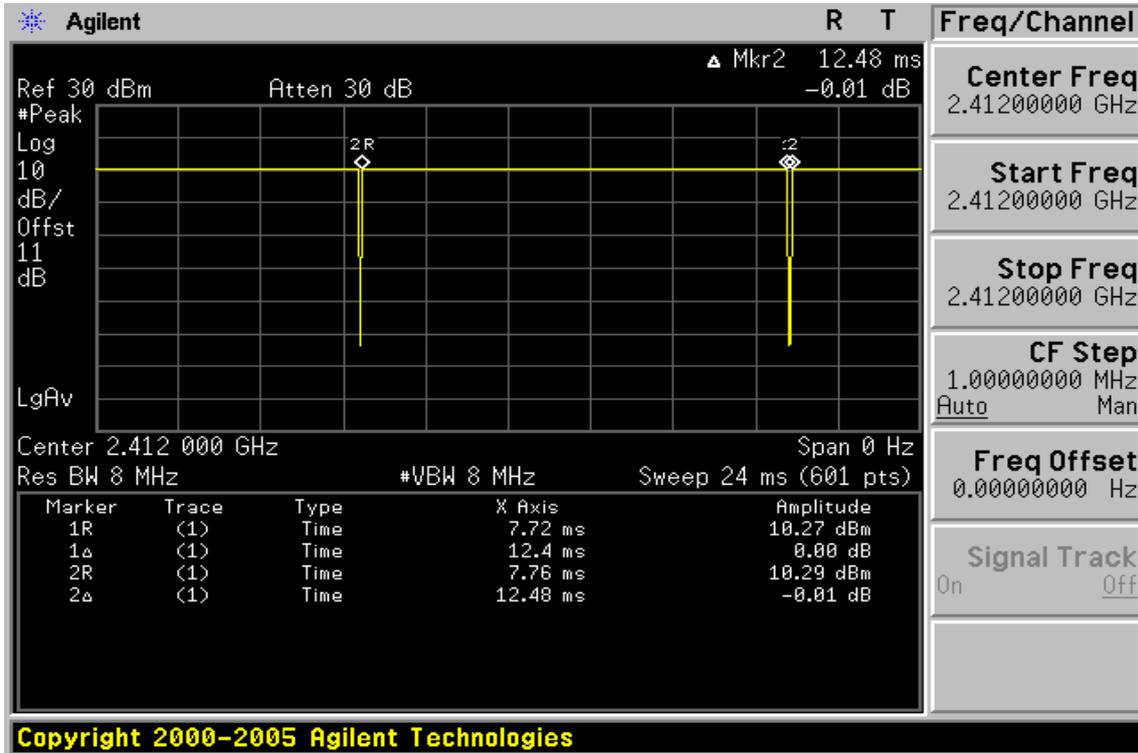
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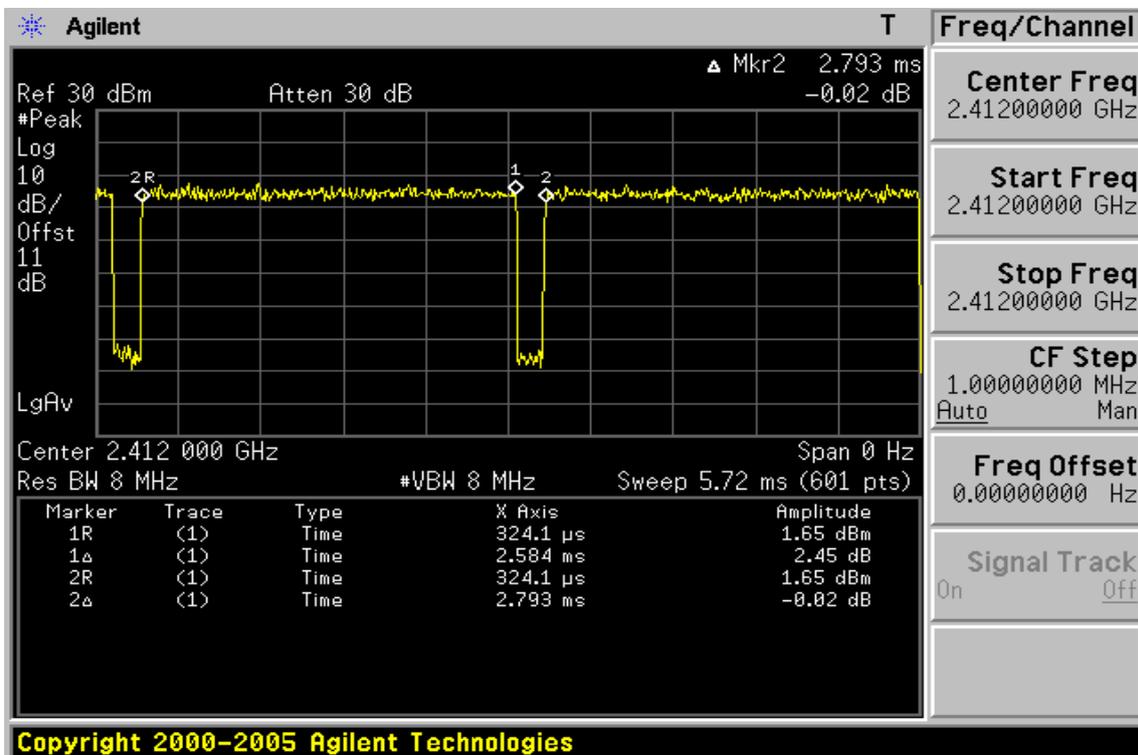
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Duty Factor:

802.11 b - Main



802.11 g - Main

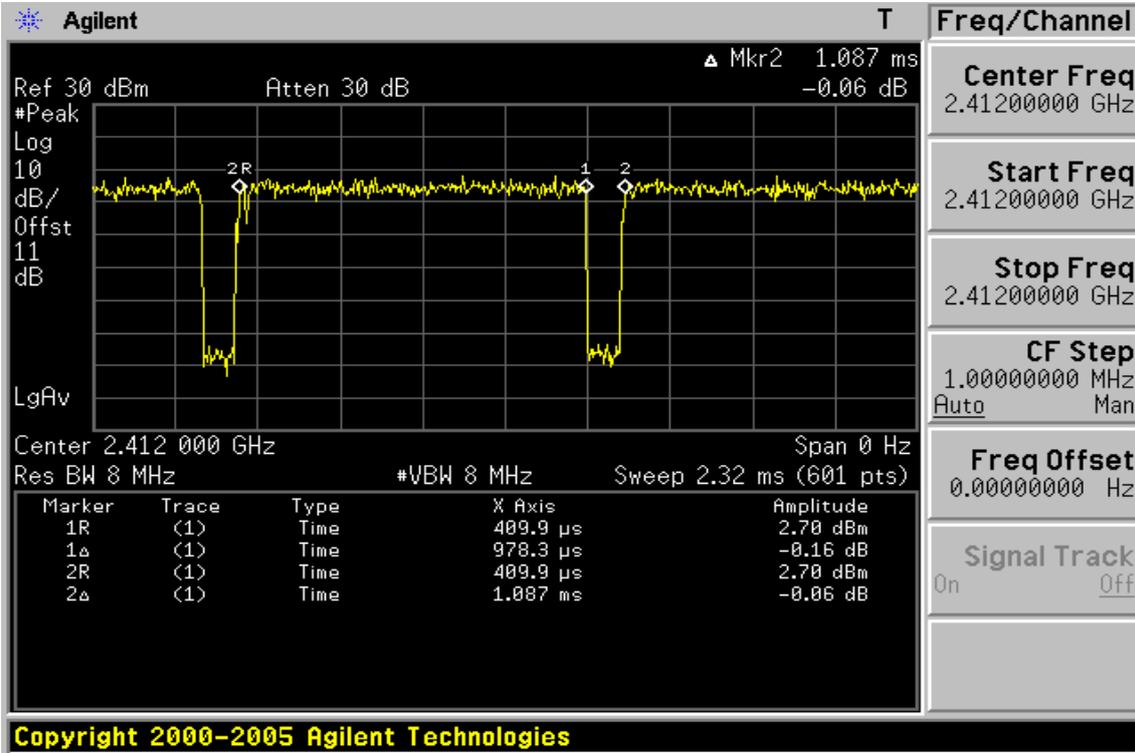


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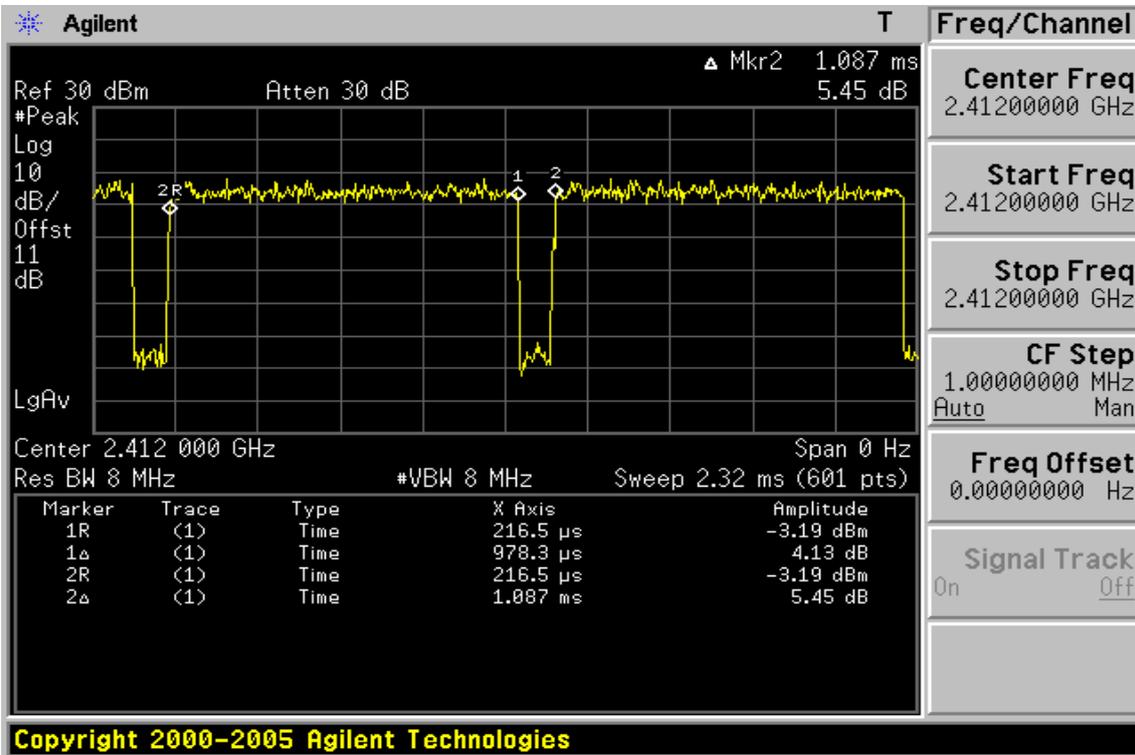
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802.11 n_20 MHz – MIMO Main



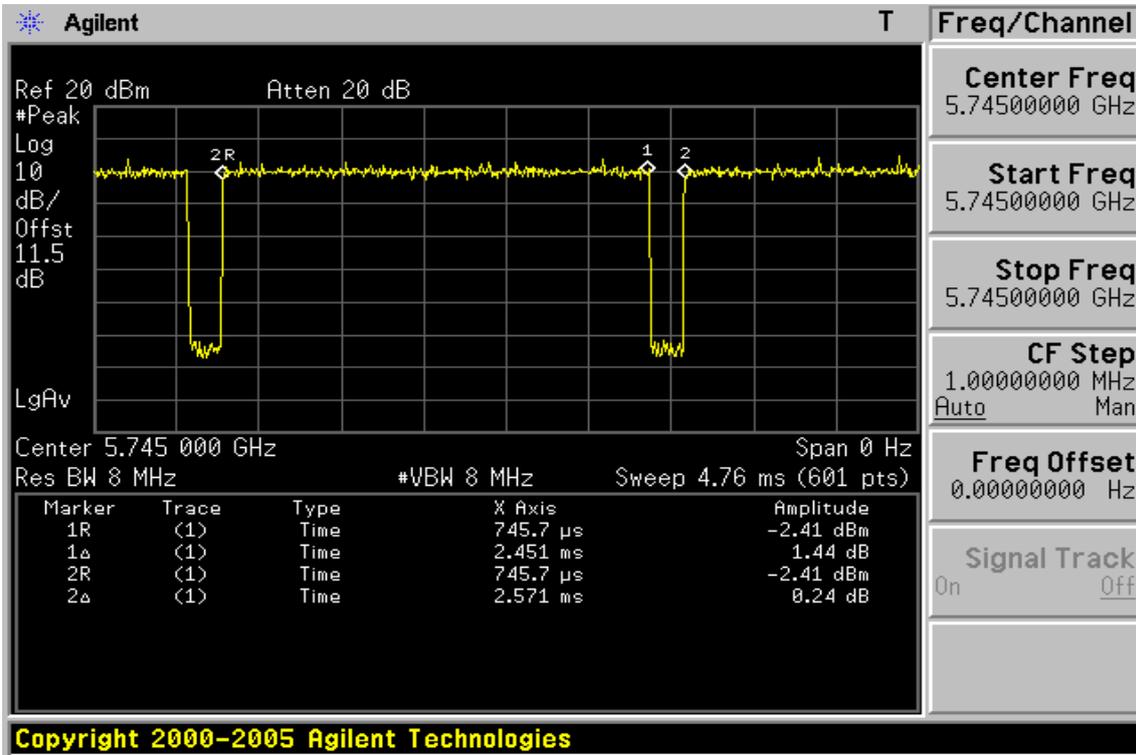
802.11 n_20 MHz – MIMO Aux



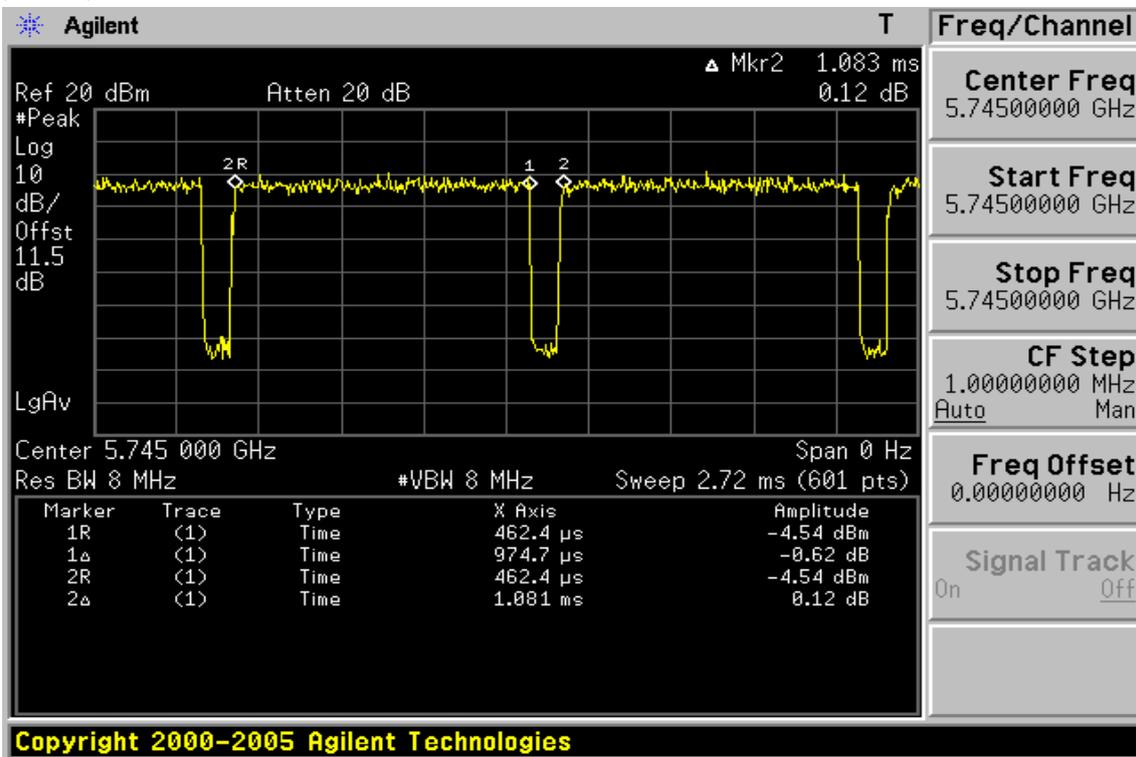
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802.11a - Aux



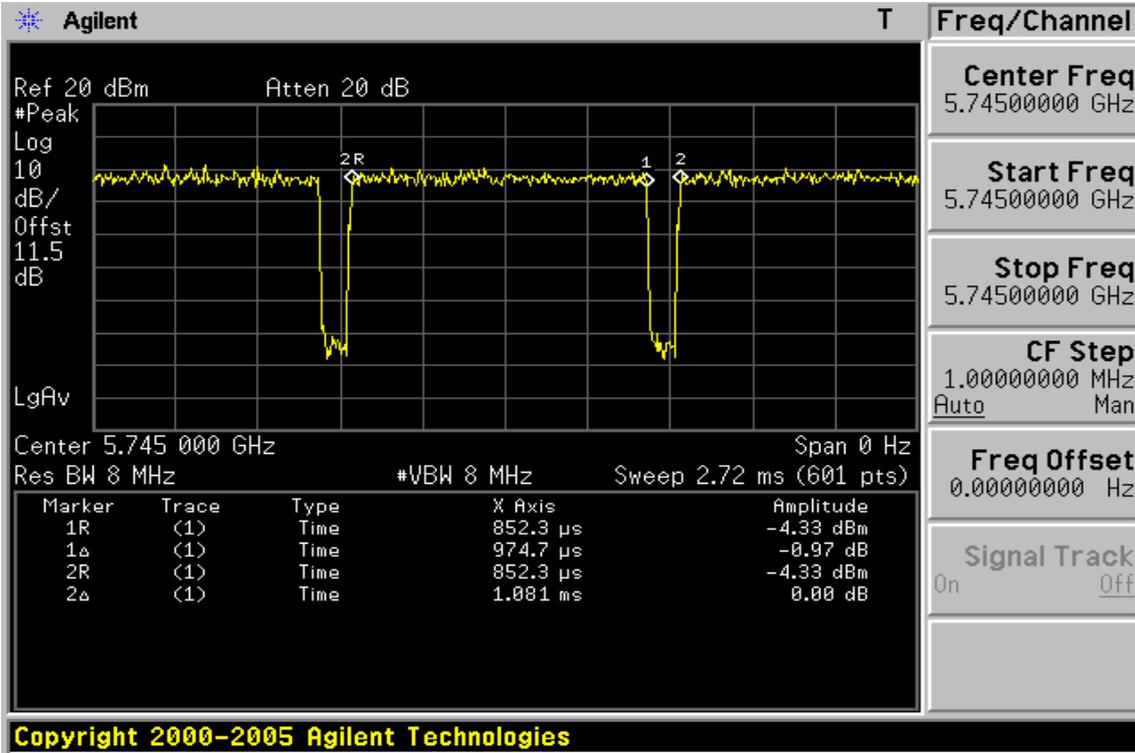
802.11 n (5GHz) _20M – MIMO Main



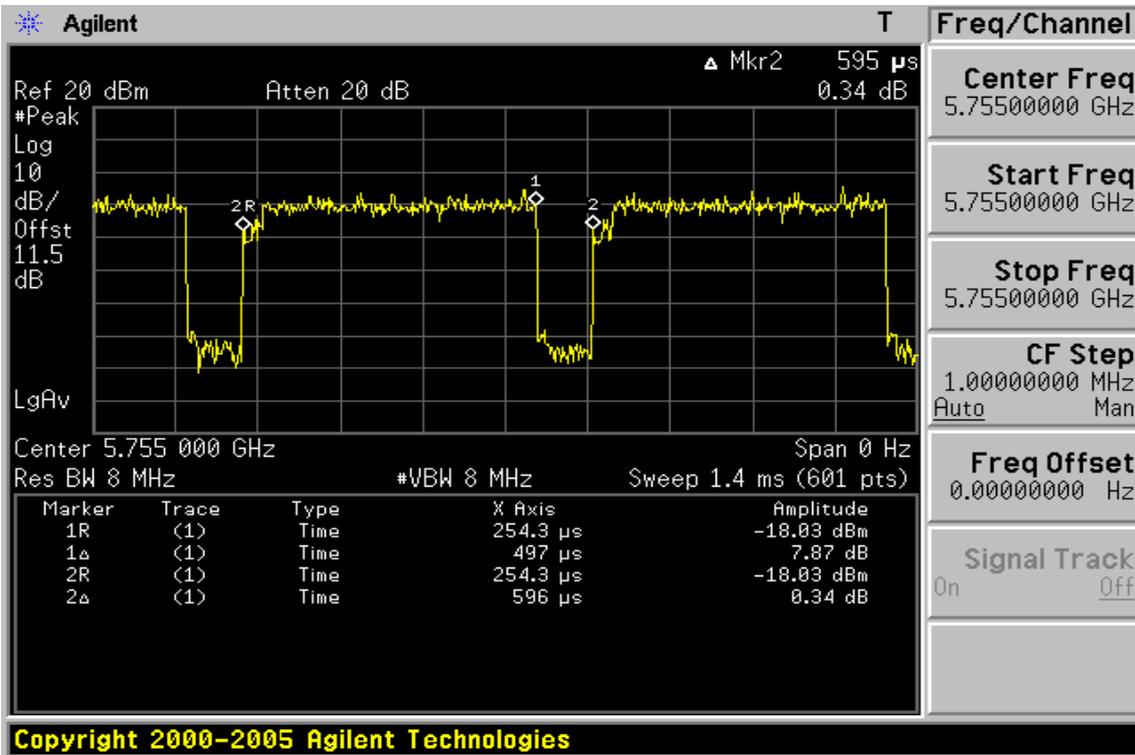
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802.11 n (5GHz)_20M – MIMO Aux



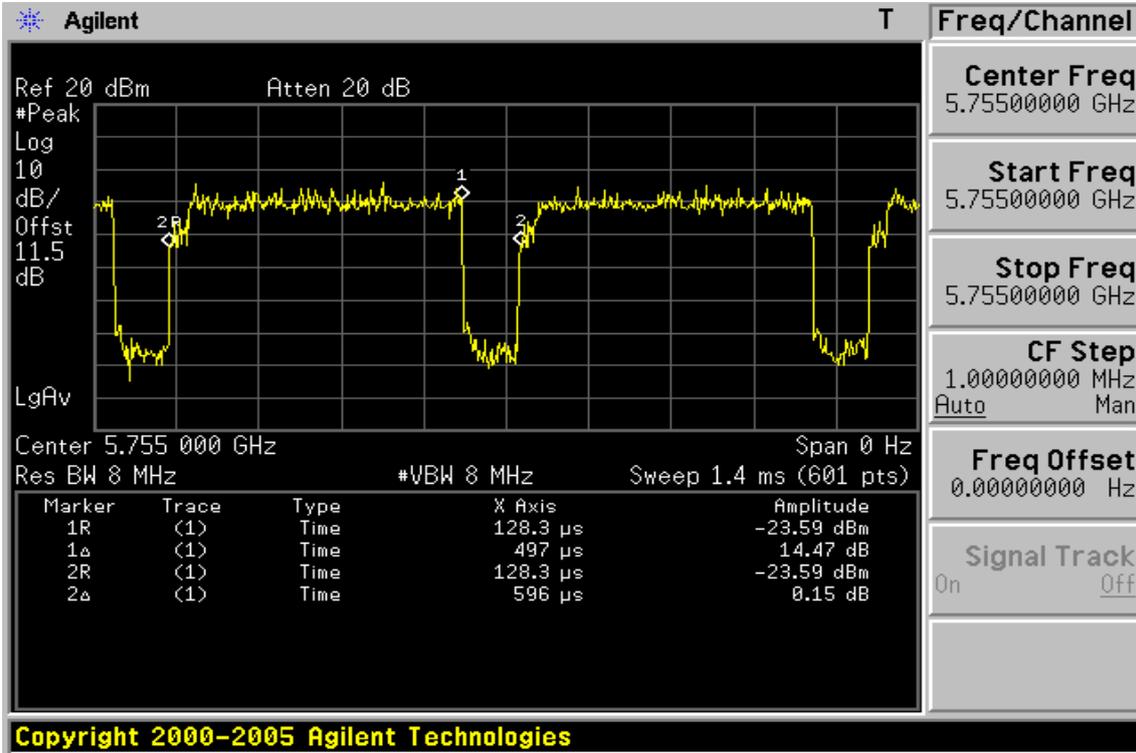
802.11 n (5GHz)_40M – MIMO Main



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802.11 n (5GHz)_40M – MIMO Aux



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7.5 Measurement Result:

802.11b

		Peak Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	17.17	17.10	17.08	17.00	1 Watt = 30 dBm
6	2437	17.82	17.73	17.66	17.52	1 Watt = 30 dBm
11	2462	17.88	17.80	17.66	17.60	1 Watt = 30 dBm

		Average Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	13.88	13.84	13.80	13.65	1 Watt = 30 dBm
6	2437	13.78	13.71	13.68	13.60	1 Watt = 30 dBm
11	2462	14.02	13.94	13.92	13.81	1 Watt = 30 dBm

802.11g

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	22.01	21.95	21.88	21.78	21.74	21.70	21.59	21.55	1 Watt = 30 dBm
6	2437	22.81	22.78	22.67	22.65	22.59	22.44	22.40	22.26	1 Watt = 30 dBm
11	2462	21.49	21.44	21.40	21.32	21.25	21.20	21.11	21.10	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	12.54	12.50	12.44	12.40	12.35	12.33	12.28	12.25	1 Watt = 30 dBm
6	2437	14.33	14.30	14.19	14.18	14.03	13.85	13.81	13.73	1 Watt = 30 dBm
11	2462	11.96	11.90	11.85	11.81	11.72	11.66	11.65	11.62	1 Watt = 30 dBm

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802.11n_20M

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	21.60	21.48	21.33	21.17	21.05	20.95	20.81	20.72	1 Watt = 30 dBm
6	2437	21.58	21.43	21.26	21.23	21.16	21.11	20.97	20.82	1 Watt = 30 dBm
11	2462	21.55	21.51	21.44	21.36	21.25	21.13	20.98	20.94	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	12.23	12.10	12.02	11.89	11.85	11.82	11.79	11.75	1 Watt = 30 dBm
6	2437	12.18	12.15	12.12	12.05	12.00	11.93	11.90	11.88	1 Watt = 30 dBm
11	2462	12.14	12.11	12.05	12.02	11.97	11.93	11.88	11.81	1 Watt = 30 dBm

802.11n_20M (2.4G) MIMO Chain 0

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	21.67	21.58	21.56	21.48	21.42	21.38	21.35	21.21	1 Watt = 30 dBm
6	2437	21.58	21.42	21.39	21.34	21.18	21.12	20.99	20.96	1 Watt = 30 dBm
11	2462	21.62	21.56	21.56	21.51	21.49	21.48	21.40	21.31	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	11.29	11.17	11.15	11.01	10.96	10.89	10.86	10.74	1 Watt = 30 dBm
6	2437	12.46	12.38	12.27	12.19	12.09	12.01	11.95	11.89	1 Watt = 30 dBm
11	2462	11.61	11.47	11.36	11.30	11.23	11.21	11.18	11.11	1 Watt = 30 dBm

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802.11n_20M (2.4G) MIMO Chain 1

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	21.52	21.39	21.22	21.22	21.05	20.93	20.75	20.68	1 Watt = 30 dBm
6	2437	21.44	21.41	21.41	21.38	21.38	21.23	21.11	21.04	1 Watt = 30 dBm
11	2462	21.35	21.19	21.11	21.06	21.04	20.89	20.79	20.62	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	11.18	11.11	11.08	11.06	11.05	11.03	10.95	10.94	1 Watt = 30 dBm
6	2437	11.95	11.93	11.87	11.80	11.68	11.68	11.66	11.63	1 Watt = 30 dBm
11	2462	10.74	10.63	10.55	10.53	10.48	10.39	10.30	10.30	1 Watt = 30 dBm

802.11n_20M (2.4G) MIMO Chain 0+Chain 1

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	24.61	24.50	24.40	24.36	24.25	24.17	24.07	23.96	1 Watt = 30 dBm
6	2437	24.52	24.43	24.41	24.37	24.29	24.18	24.06	24.01	1 Watt = 30 dBm
11	2462	24.50	24.39	24.35	24.30	24.28	24.21	24.12	23.99	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
1	2412	14.25	14.15	14.13	14.05	14.02	13.97	13.92	13.85	1 Watt = 30 dBm
6	2437	15.22	15.17	15.08	15.01	14.90	14.86	14.82	14.77	1 Watt = 30 dBm
11	2462	14.20	14.08	13.98	13.94	13.88	13.83	13.77	13.73	1 Watt = 30 dBm

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802.11a

		Peak Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
149	5745	21.59	21.51	21.42	21.29	21.16	21.06	20.92	20.83	1 Watt = 30 dBm
157	5785	21.70	21.70	21.70	21.69	21.63	21.49	21.49	21.49	1 Watt = 30 dBm
165	5825	21.64	21.59	21.57	21.49	21.38	21.37	21.33	21.32	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
149	5745	13.20	13.13	13.03	12.91	12.83	12.69	12.66	12.56	1 Watt = 30 dBm
157	5785	13.00	12.92	12.90	12.79	12.67	12.65	12.50	12.44	1 Watt = 30 dBm
165	5825	13.02	12.94	12.78	12.66	12.55	12.37	12.28	12.12	1 Watt = 30 dBm

802.11n (5GHz)_20M

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
149	5745	21.75	21.65	21.53	21.48	21.37	21.37	21.28	21.27	1 Watt = 30 dBm
157	5785	21.68	21.64	21.50	21.42	21.38	21.31	21.29	21.19	1 Watt = 30 dBm
165	5825	22.01	21.97	21.94	21.89	21.75	21.73	21.60	21.47	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
149	5745	13.00	12.99	12.90	12.78	12.68	12.60	12.48	12.38	1 Watt = 30 dBm
157	5785	13.10	12.95	12.89	12.84	12.65	12.62	12.59	12.46	1 Watt = 30 dBm
165	5825	12.99	12.98	12.83	12.74	12.71	12.70	12.64	12.55	1 Watt = 30 dBm

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802.11n (5GHz)_20M MIMO Chain 0

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	21.55	21.51	21.49	21.52	21.45	21.46	21.38	21.41	1 Watt = 30 dBm
157	5785	21.61	21.49	21.41	21.35	21.25	21.14	21.03	20.94	1 Watt = 30 dBm
165	5825	21.59	21.56	21.42	21.32	21.32	21.18	21.04	20.90	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	10.56	10.56	10.51	10.45	10.35	10.25	10.11	10.02	1 Watt = 30 dBm
157	5785	9.40	9.27	9.13	9.10	8.99	8.89	8.86	8.78	1 Watt = 30 dBm
165	5825	9.44	9.30	9.17	9.11	9.00	8.87	8.77	8.70	1 Watt = 30 dBm

802.11n (5GHz)_20M MIMO Chain 1

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	21.41	21.39	21.38	21.38	21.33	21.35	21.31	21.32	1 Watt = 30 dBm
157	5785	21.52	21.49	21.45	21.41	21.40	21.31	21.19	21.11	1 Watt = 30 dBm
165	5825	21.48	21.42	21.29	21.27	21.21	21.08	21.00	20.98	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	10.28	10.24	10.11	10.04	9.95	9.94	9.80	9.74	1 Watt = 30 dBm
157	5785	10.89	10.85	10.76	10.68	10.64	10.60	10.58	10.51	1 Watt = 30 dBm
165	5825	10.88	10.77	10.63	10.61	10.58	10.54	10.48	10.48	1 Watt = 30 dBm

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802.11n (5GHz)_20M MIMO Chain 0+ Chain1

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	24.50	24.47	24.45	24.47	24.41	24.42	24.36	24.38	1 Watt = 30 dBm
157	5785	24.58	24.51	24.45	24.40	24.34	24.24	24.13	24.04	1 Watt = 30 dBm
165	5825	24.55	24.51	24.37	24.31	24.28	24.15	24.04	23.96	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
149	5745	13.43	13.41	13.32	13.26	13.16	13.11	12.97	12.89	1 Watt = 30 dBm
157	5785	13.21	13.14	13.03	12.97	12.90	12.84	12.81	12.74	1 Watt = 30 dBm
165	5825	13.22	13.11	12.97	12.93	12.87	12.80	12.72	12.69	1 Watt = 30 dBm

802.11n (5GHz)_40M

		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
151	5755	22.10	22.08	22.04	21.93	21.80	21.68	21.62	21.48	1 Watt = 30 dBm
159	5795	21.96	21.88	21.76	21.67	21.60	21.52	21.38	21.32	1 Watt = 30 dBm

		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
151	5755	11.36	11.26	11.22	11.22	11.03	10.85	10.77	10.76	1 Watt = 30 dBm
159	5795	11.40	11.39	11.38	11.25	11.23	11.21	11.16	11.03	1 Watt = 30 dBm

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802.11n (5GHz)_40M MIMO Chain 0

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	21.57	21.43	21.39	21.31	21.23	21.20	21.12	21.00	1 Watt = 30 dBm
159	5795	21.65	21.55	21.53	21.50	21.37	21.25	21.12	21.06	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	10.51	10.51	10.45	10.38	10.29	10.24	10.17	10.10	1 Watt = 30 dBm
159	5795	10.16	10.06	9.96	9.85	9.85	9.80	9.80	9.74	1 Watt = 30 dBm

802.11n (5GHz)_40M MIMO Chain 1

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	21.41	21.38	21.34	21.20	21.08	21.02	20.95	20.94	1 Watt = 30 dBm
159	5795	21.51	21.51	21.43	21.40	21.34	21.20	21.19	21.12	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	11.38	11.32	11.29	11.28	11.26	11.16	11.09	10.99	1 Watt = 30 dBm
159	5795	11.30	11.27	11.24	11.21	11.12	11.08	11.04	11.01	1 Watt = 30 dBm

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802.11n (5GHz)_40M MIMO Chain 0+Chain 1

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	24.50	24.42	24.38	24.27	24.17	24.12	24.05	23.98	1 Watt = 30 dBm
159	5795	24.59	24.54	24.49	24.46	24.37	24.24	24.17	24.10	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS8	MCS9	MCS10	MCS11	MCS12	MCS13	MCS14	MCS15	
151	5755	13.98	13.94	13.90	13.86	13.81	13.73	13.66	13.58	1 Watt = 30 dBm
159	5795	13.78	13.72	13.66	13.59	13.54	13.50	13.47	13.43	1 Watt = 30 dBm

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

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8 6dB BANDWIDTH

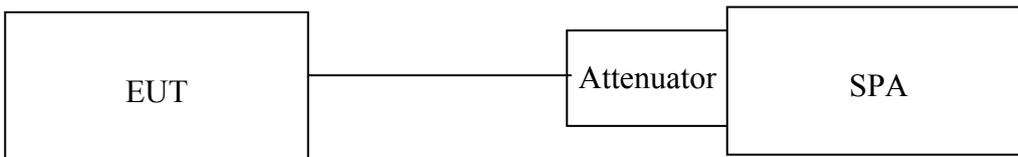
8.1 Standard Applicable:

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

8.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Sensor	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2013	01/04/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014

8.3 Test Set-up:



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8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto, the setting on spectrum is adjusted based on the procedure as guide in 8.1 option 1 of KDB558074.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency of interest measured was complete.

8.5 Measurement Result:

802.11b

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	8145	> 500	PASS
2437	8065	> 500	PASS
2462	8139	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15751	> 500	PASS
2437	15311	> 500	PASS
2462	15672	> 500	PASS

802.11n_20M MIMO-Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15134	> 500	PASS
2437	15340	> 500	PASS
2462	15439	> 500	PASS

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802.11n_20M MIMO-Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15732	> 500	PASS
2437	16331	> 500	PASS
2462	16343	> 500	PASS

802.11a

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5745	15450	> 500	PASS
5785	15265	> 500	PASS
5825	15543	> 500	PASS

802.11n (5GHz)_20M MIMO-Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5745	16707	> 500	PASS
5785	15717	> 500	PASS
5825	15464	> 500	PASS

802.11n (5GHz)_20M MIMO-Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5745	15746	> 500	PASS
5785	16397	> 500	PASS
5825	14429	> 500	PASS

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802.11n (5GHz)_40M MIMO-Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5755	36319	> 500	PASS
5795	36148	> 500	PASS

802.11n (5GHz)_40M MIMO-Aux

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5755	36375	> 500	PASS
5795	36380	> 500	PASS

* Note: Offset 11dB for 2.4G 802.11b/g/n_20;
Offset 15dB for 5G 802.11a/n_20/n_40.

* Note: The diamond reveals X decibel level

*Refer to next page for plots

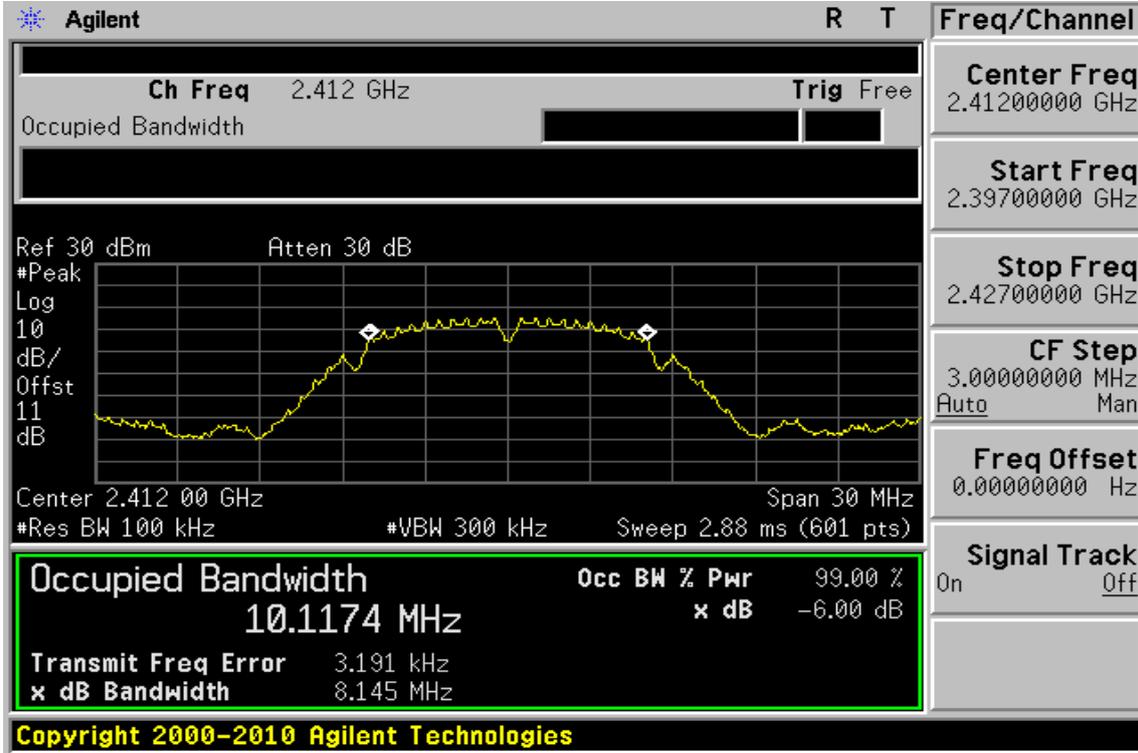
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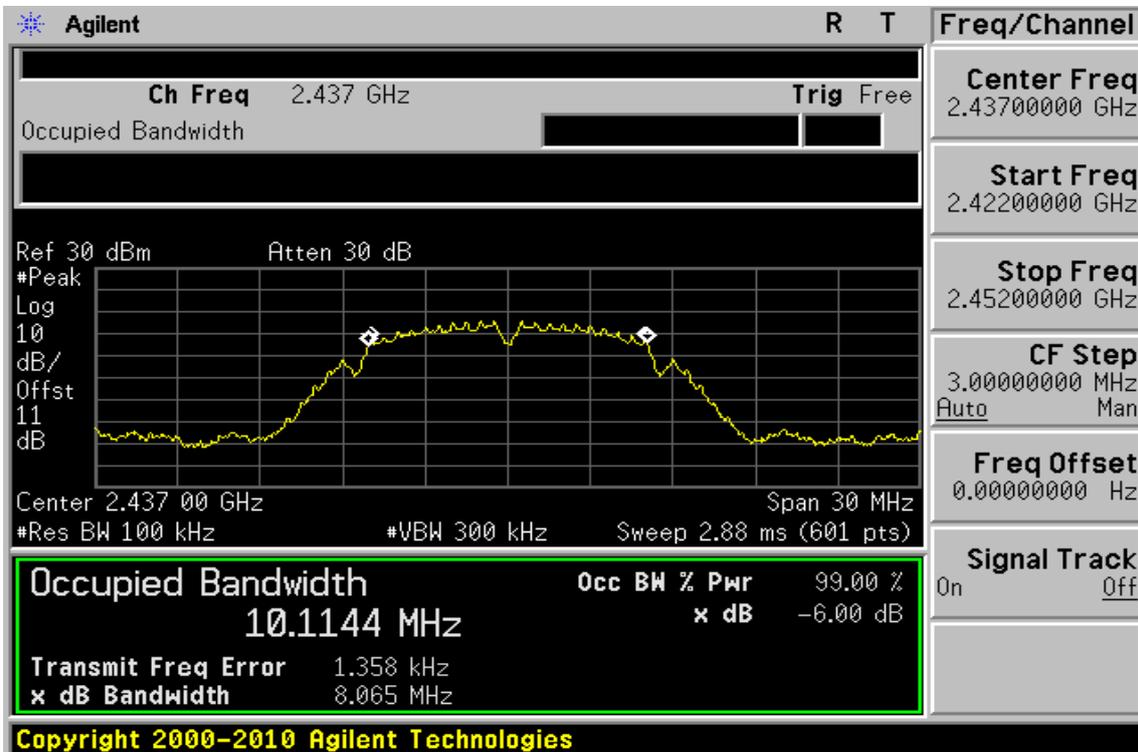
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

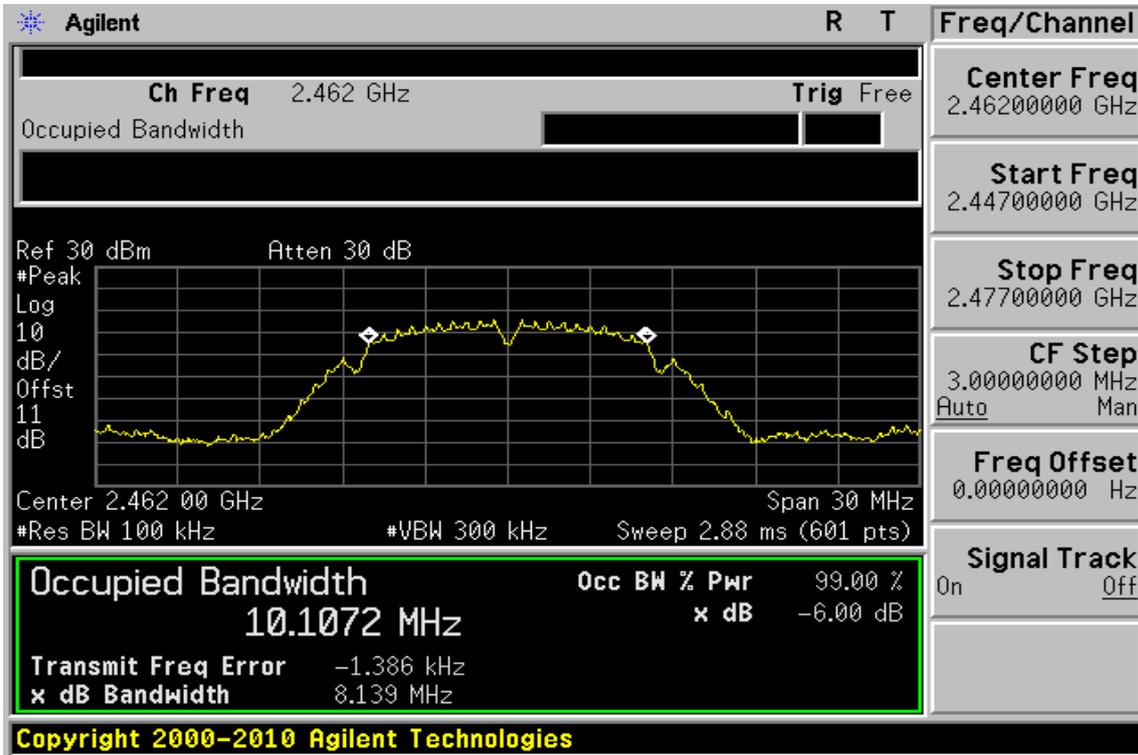


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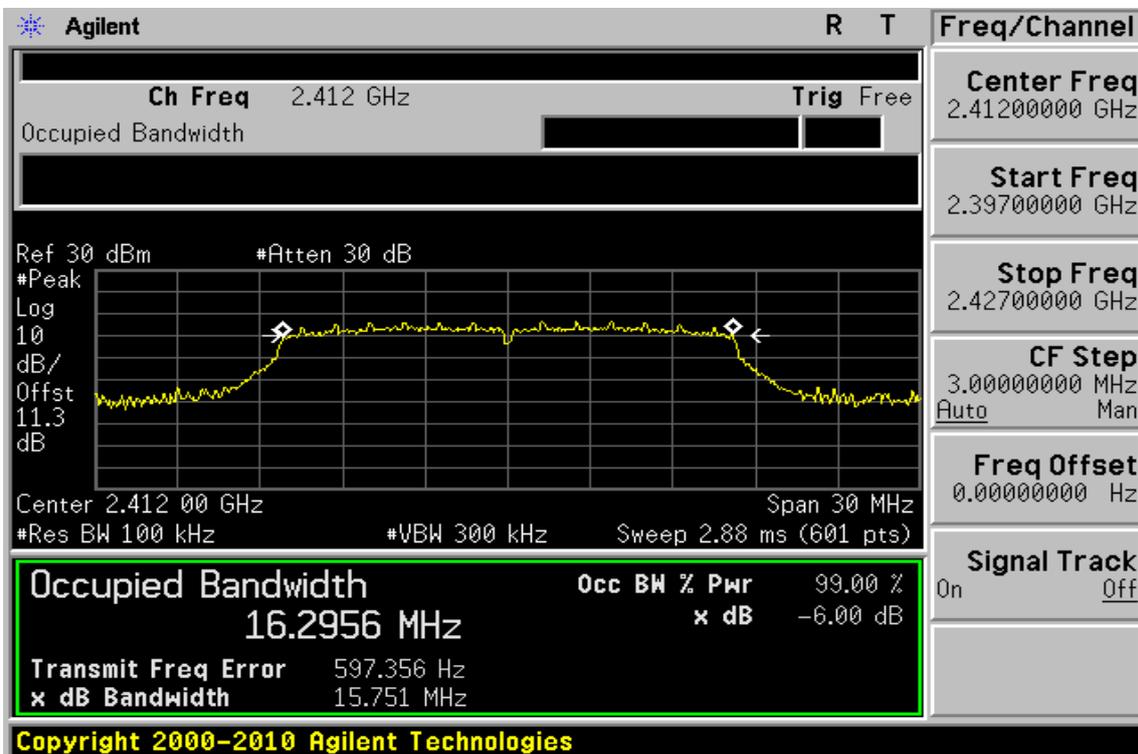
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

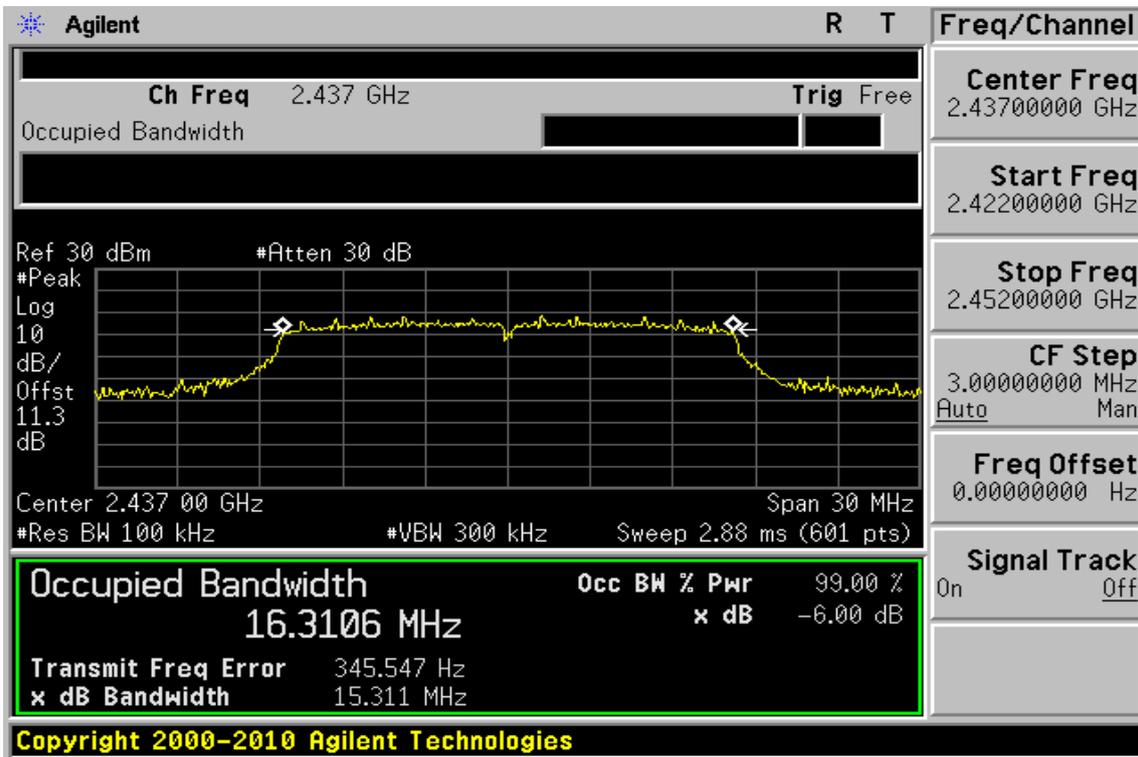


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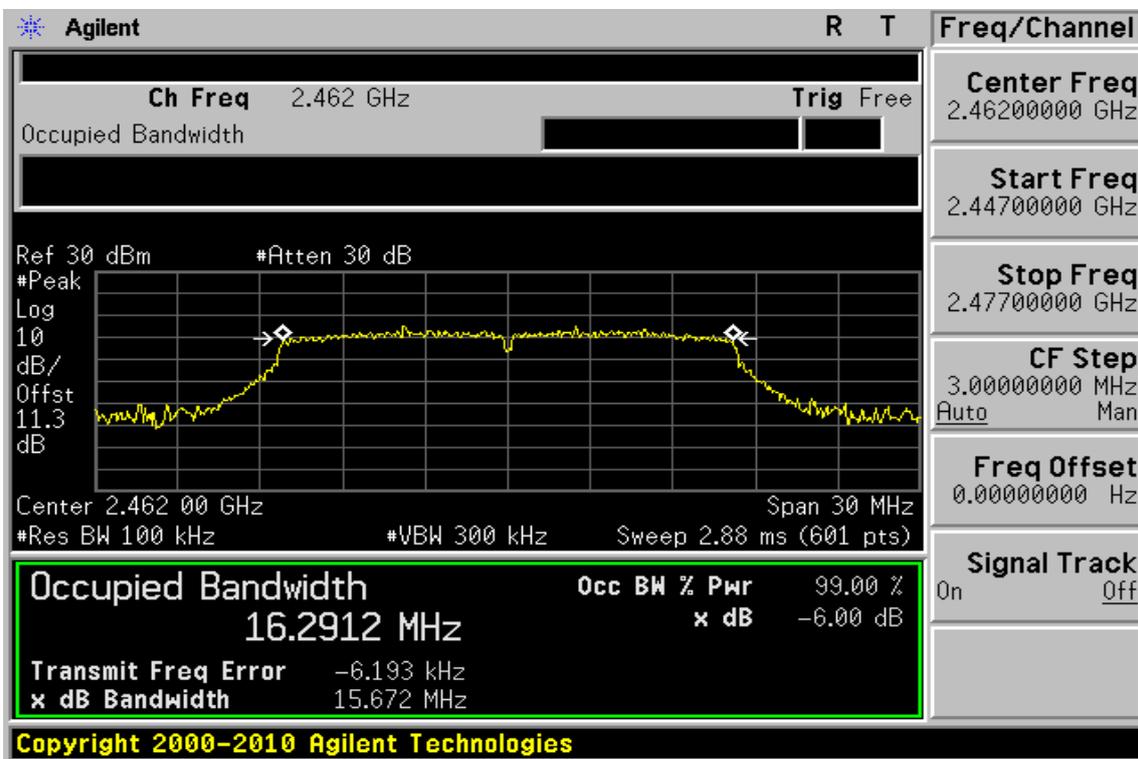
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

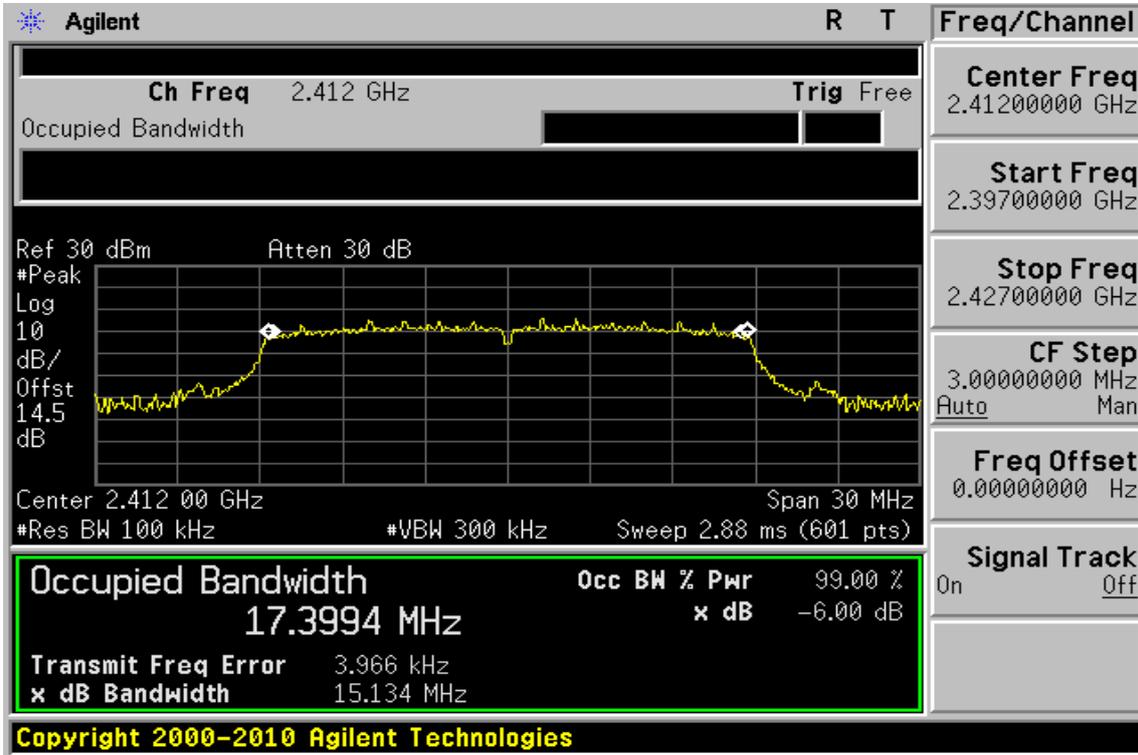


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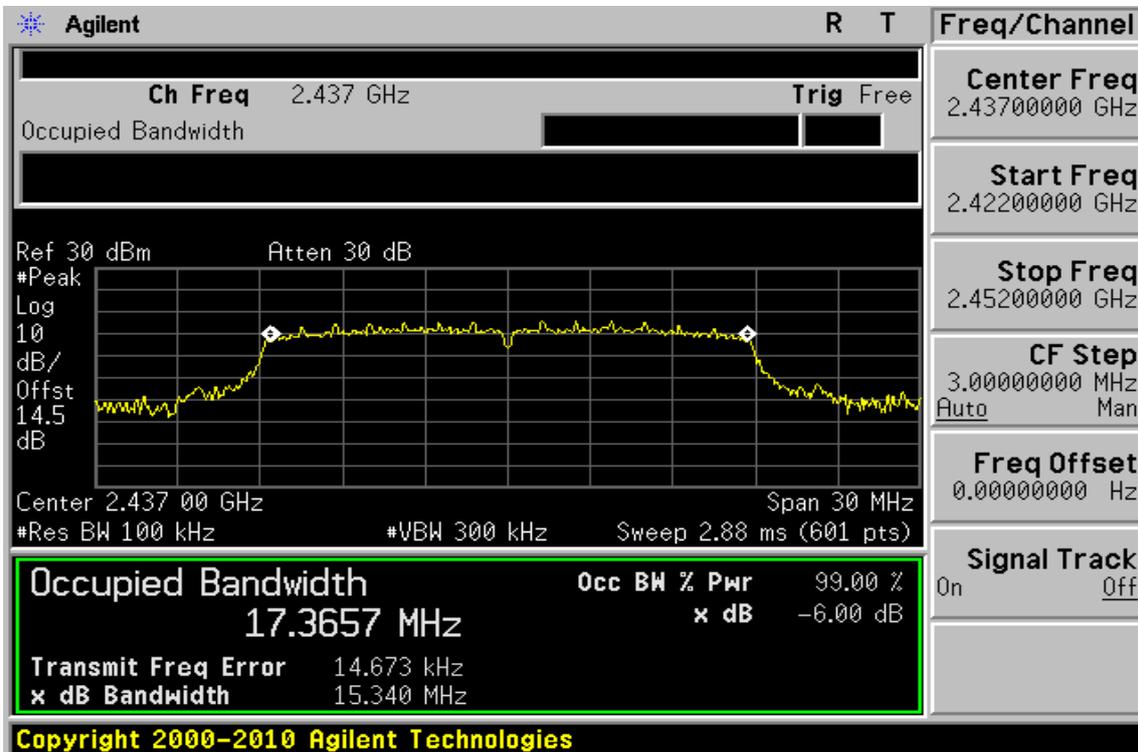
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802.11n_20M MIMO-Main
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

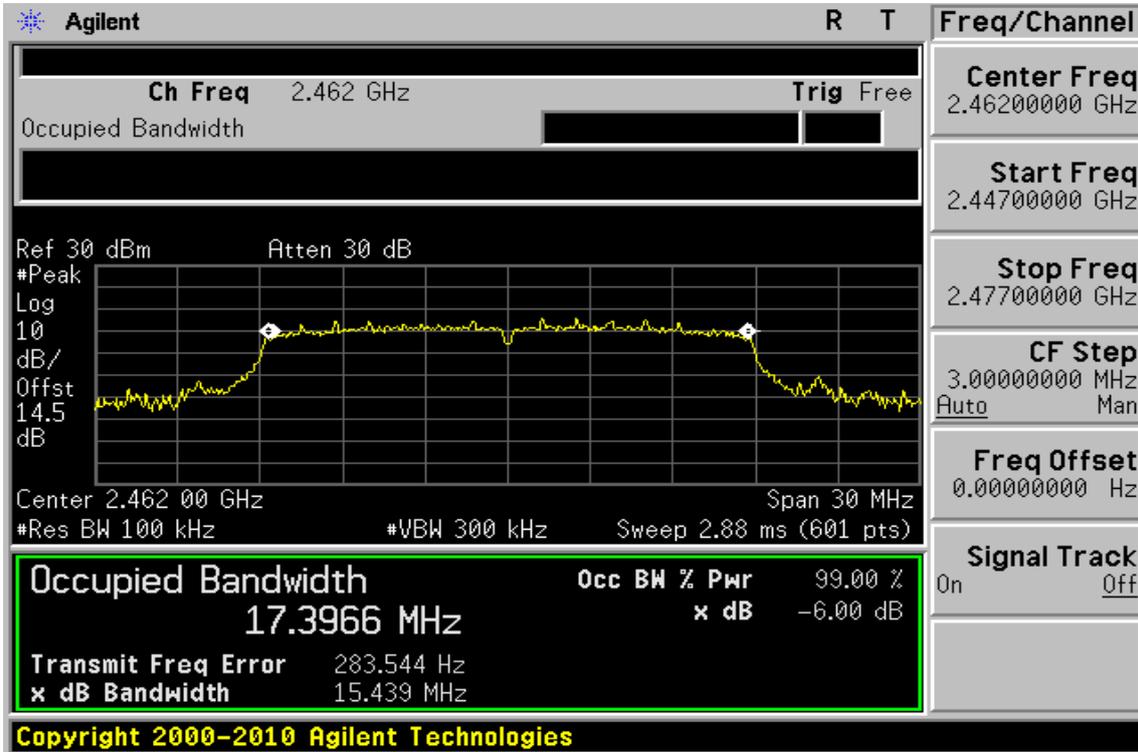


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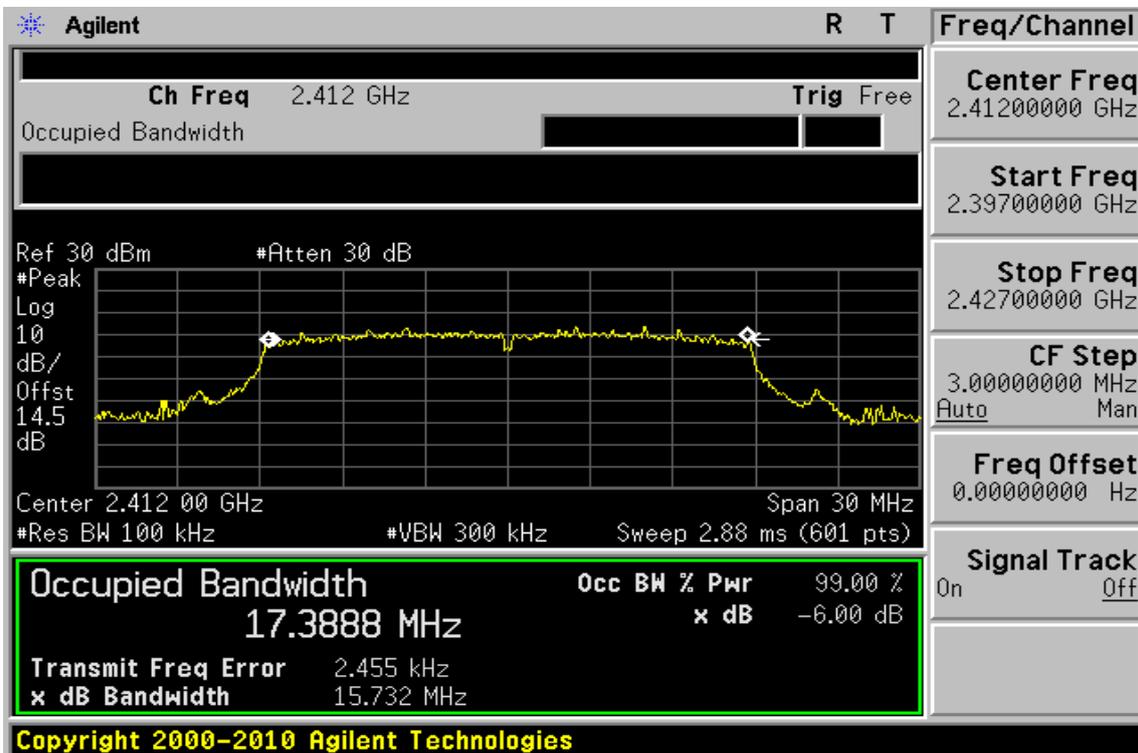
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6dB Band Width Test Data CH-High



802.11n_20M MIMO-Aux

6dB Band Width Test Data CH-Low

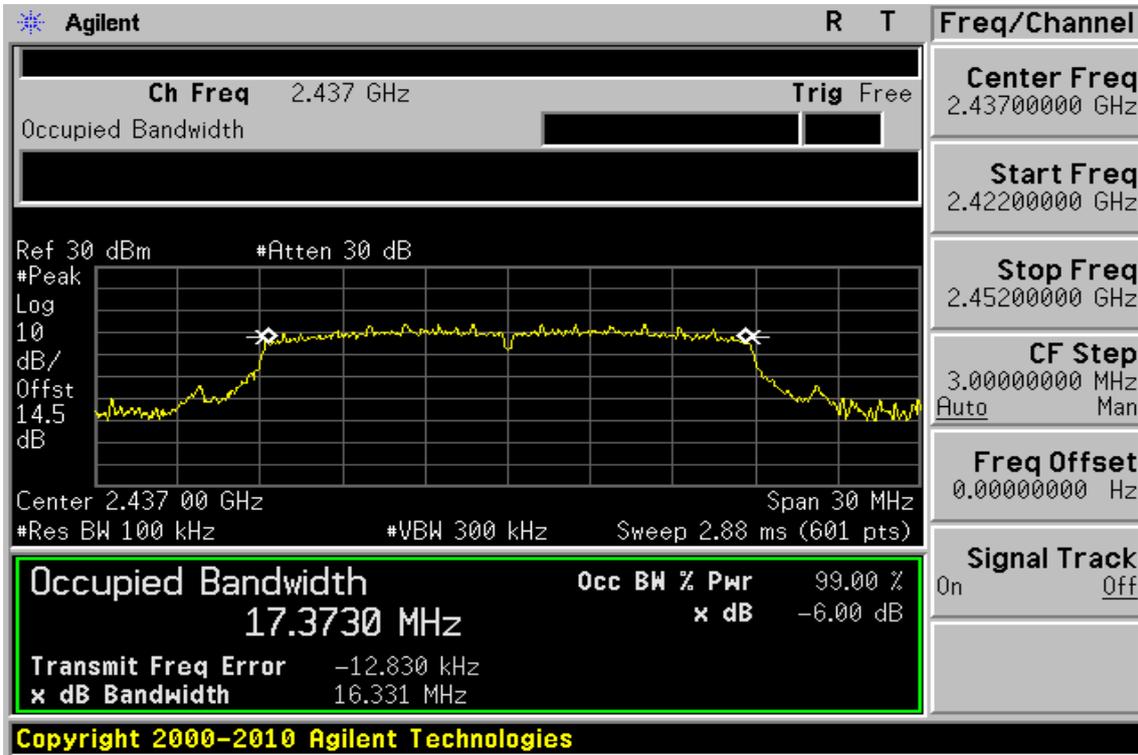


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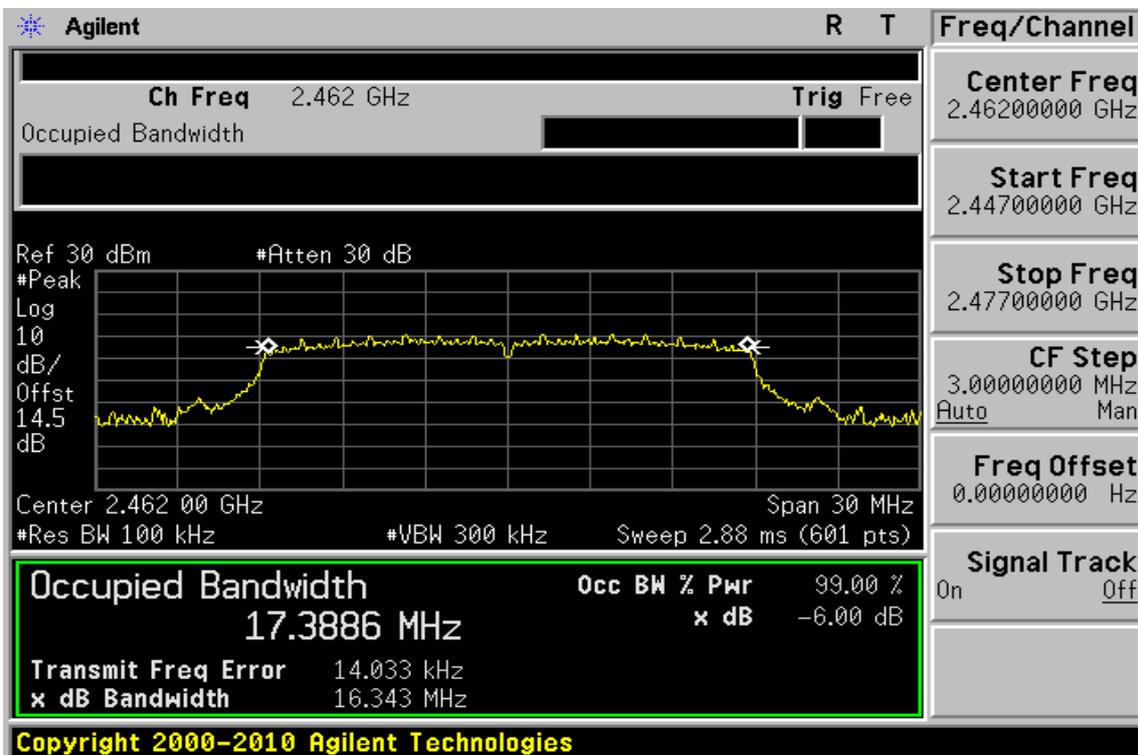
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

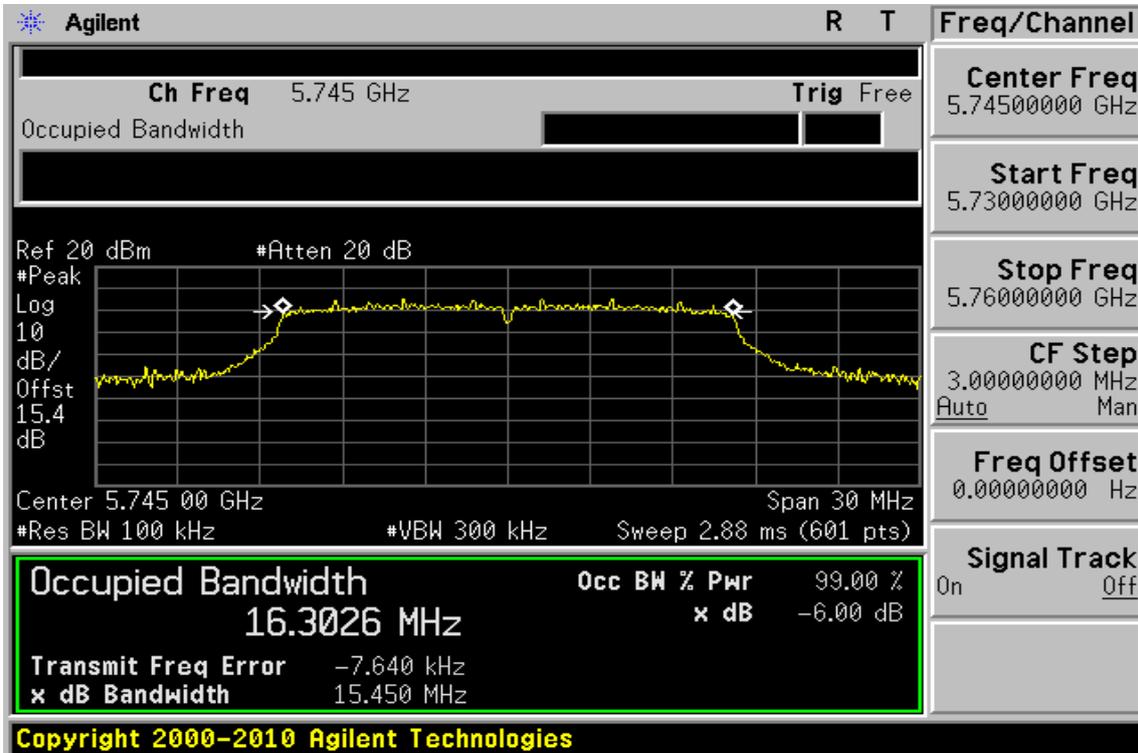


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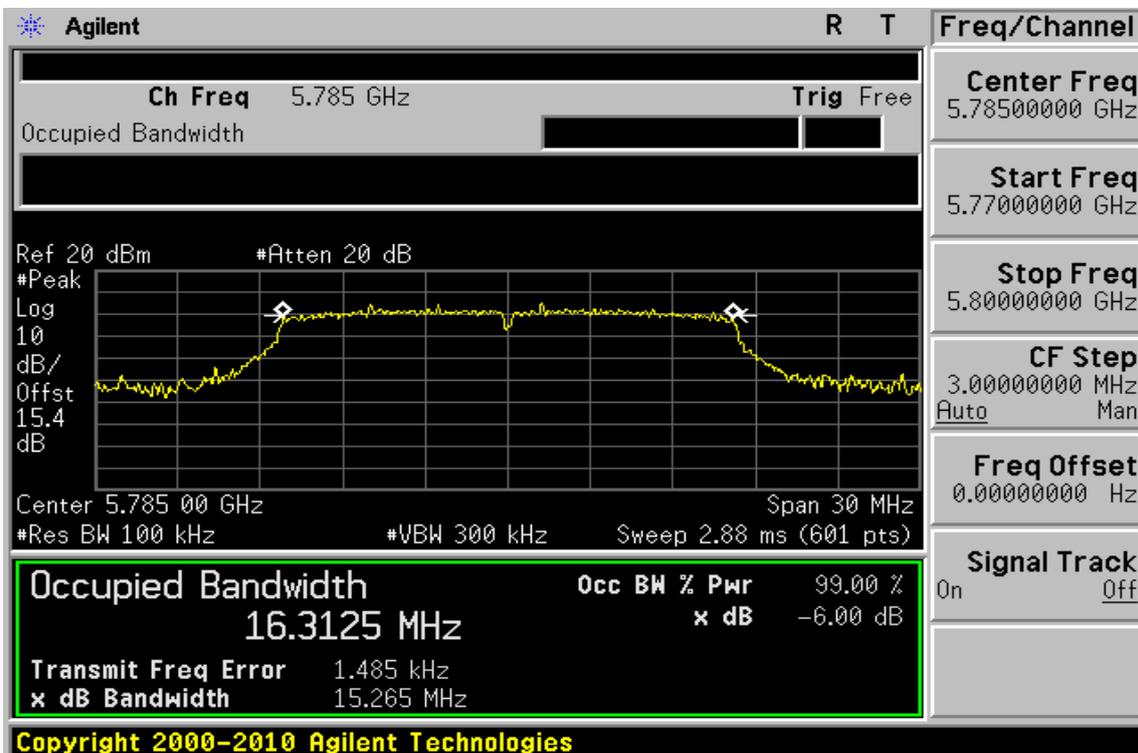
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802.11a

6dB Band Width Test Data CH-Low



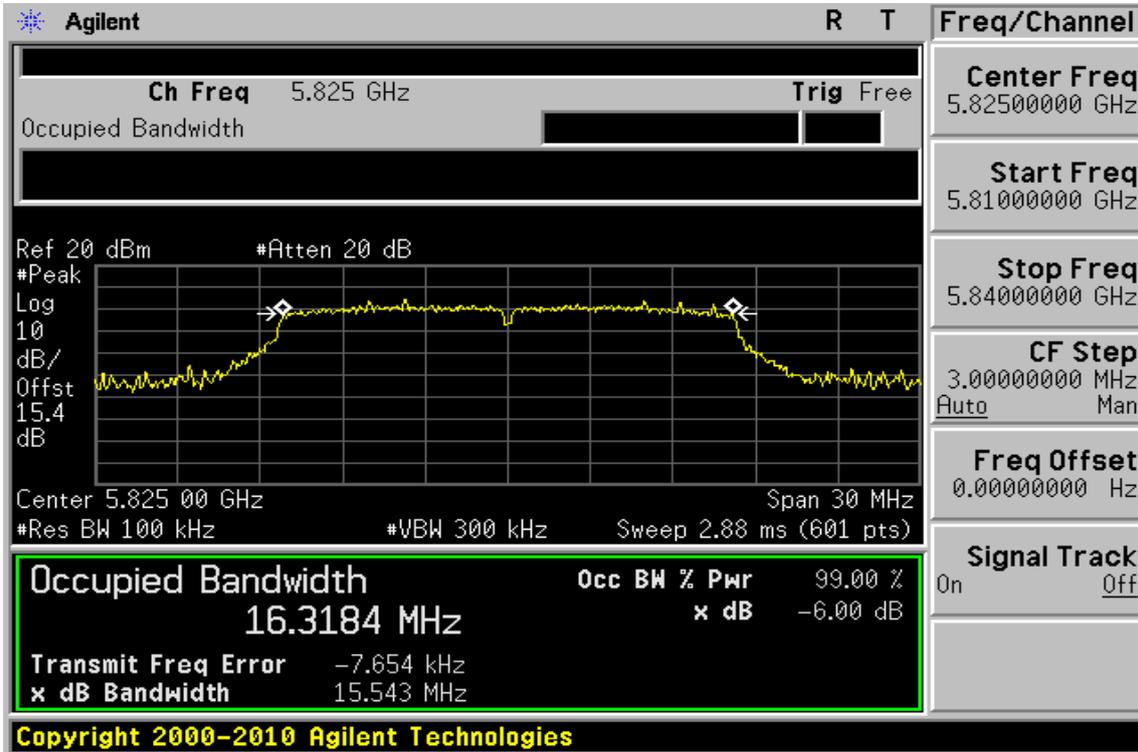
6dB Band Width Test Data CH-Mid



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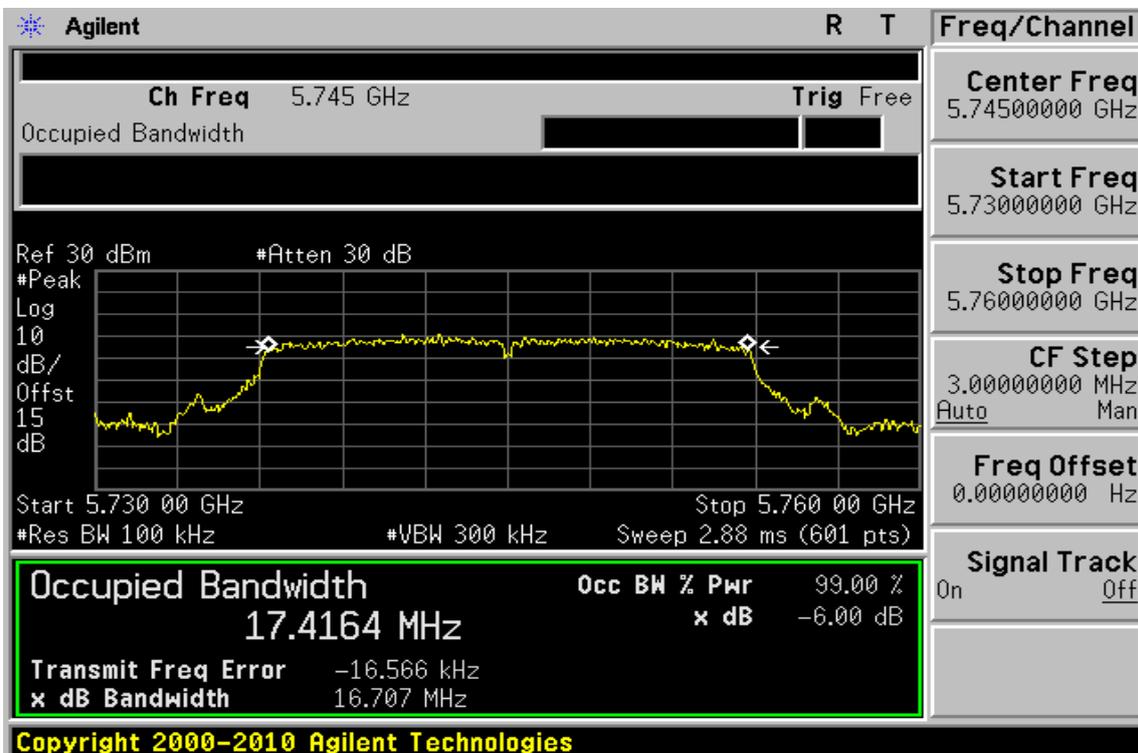
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6dB Band Width Test Data CH-High



802.11n (5GHz)_20M MIMO-Main

6dB Band Width Test Data CH-Low

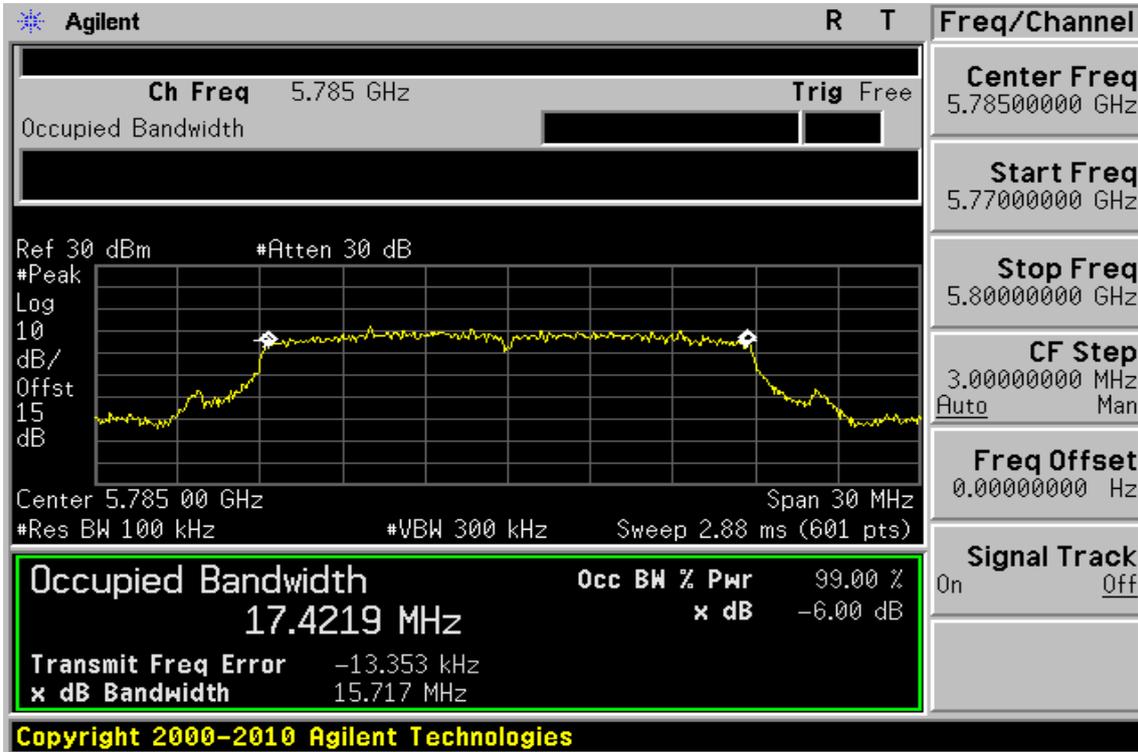


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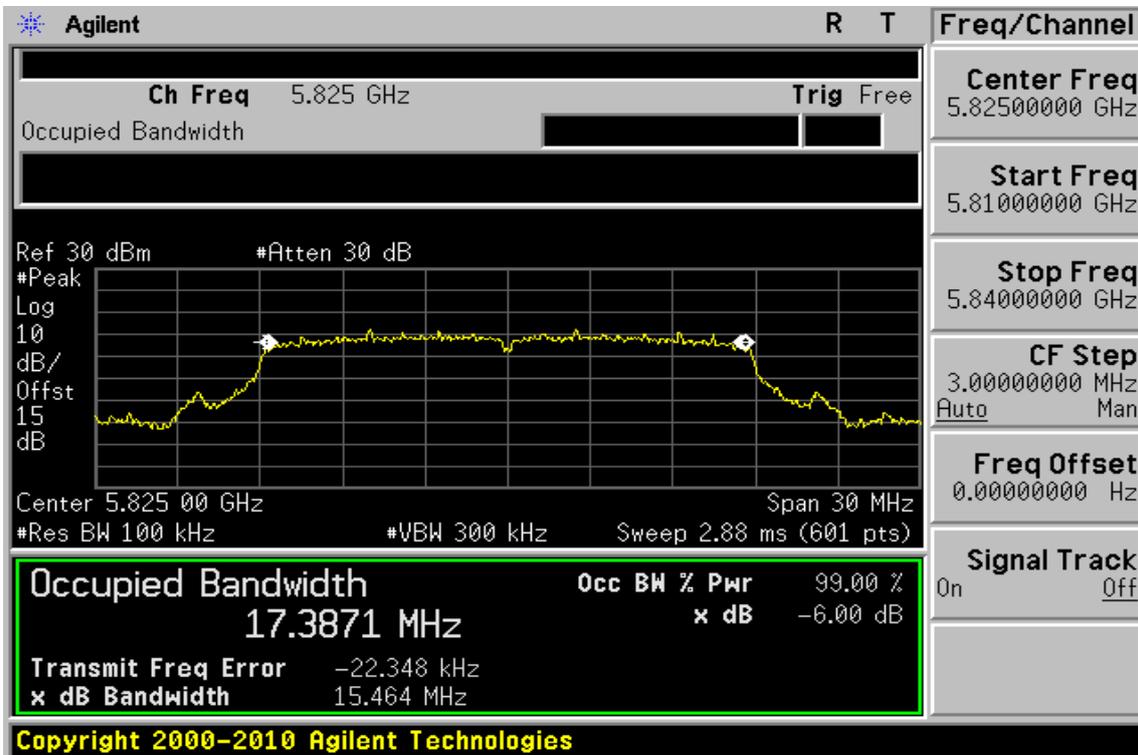
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6dB Band Width Test Data CH-Mid



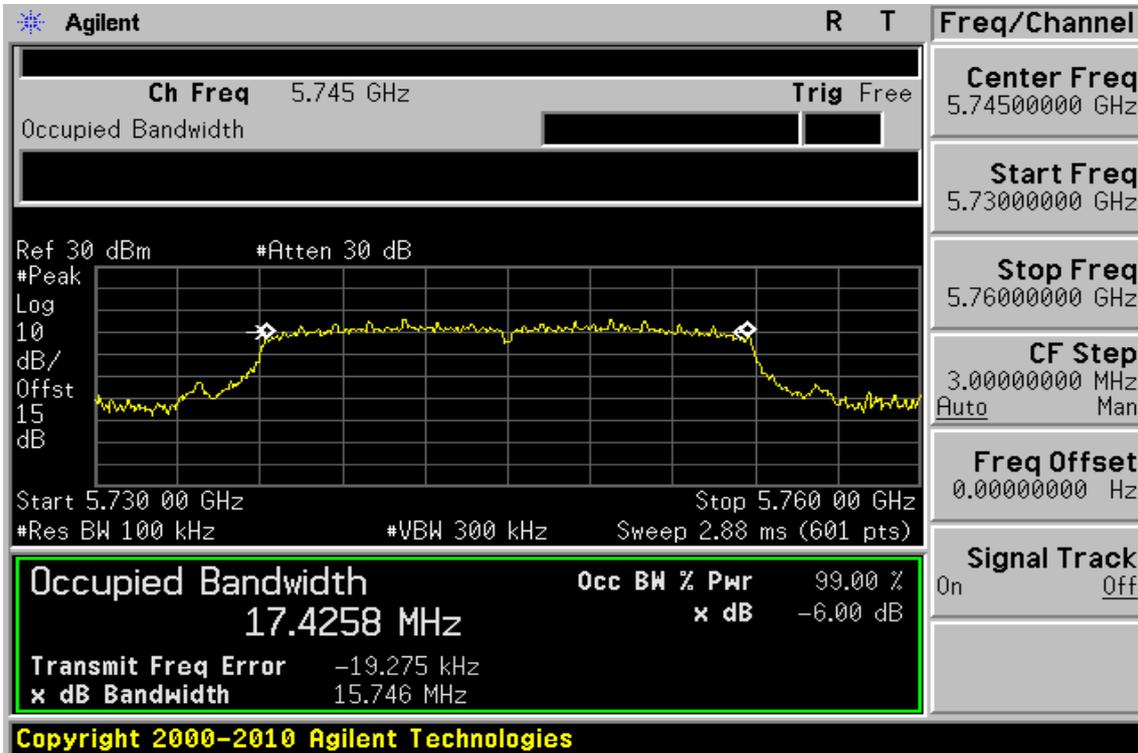
6dB Band Width Test Data CH-High



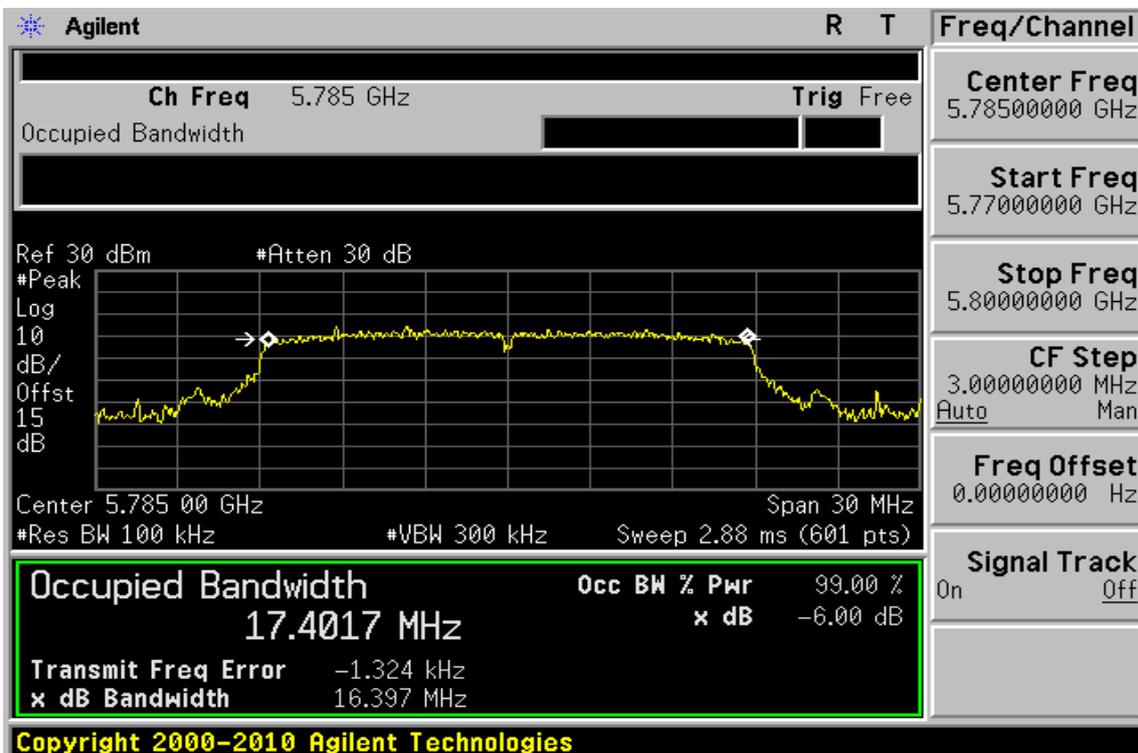
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802.11n (5GHz)_20M MIMO-Aux
6dB Band Width Test Data CH-Low

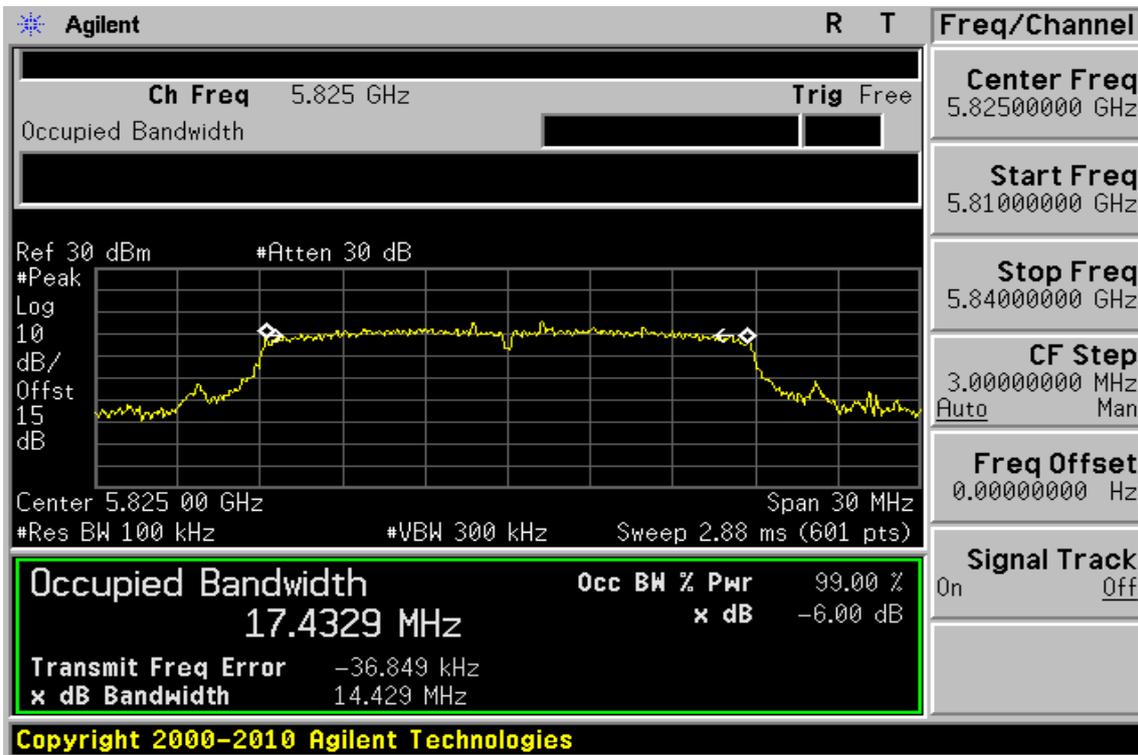


6dB Band Width Test Data CH-Mid



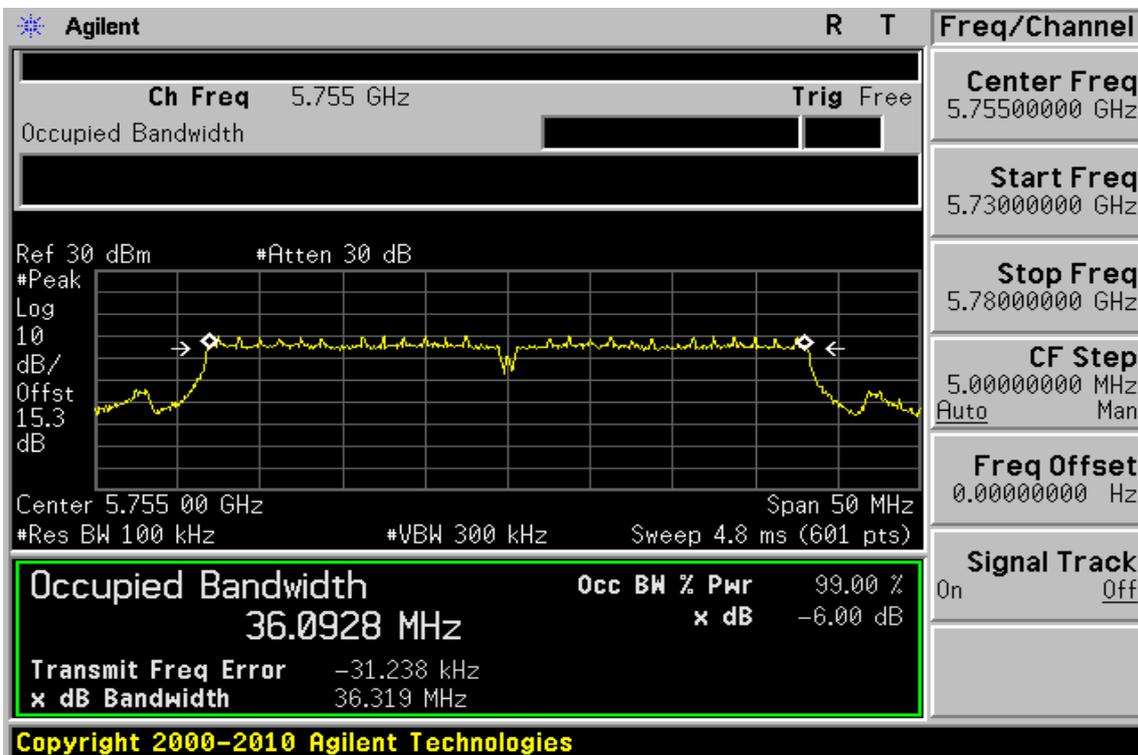
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6dB Band Width Test Data CH-High



802.11n (5GHz)_40M MIMO-Main

6dB Band Width Test Data CH-Low

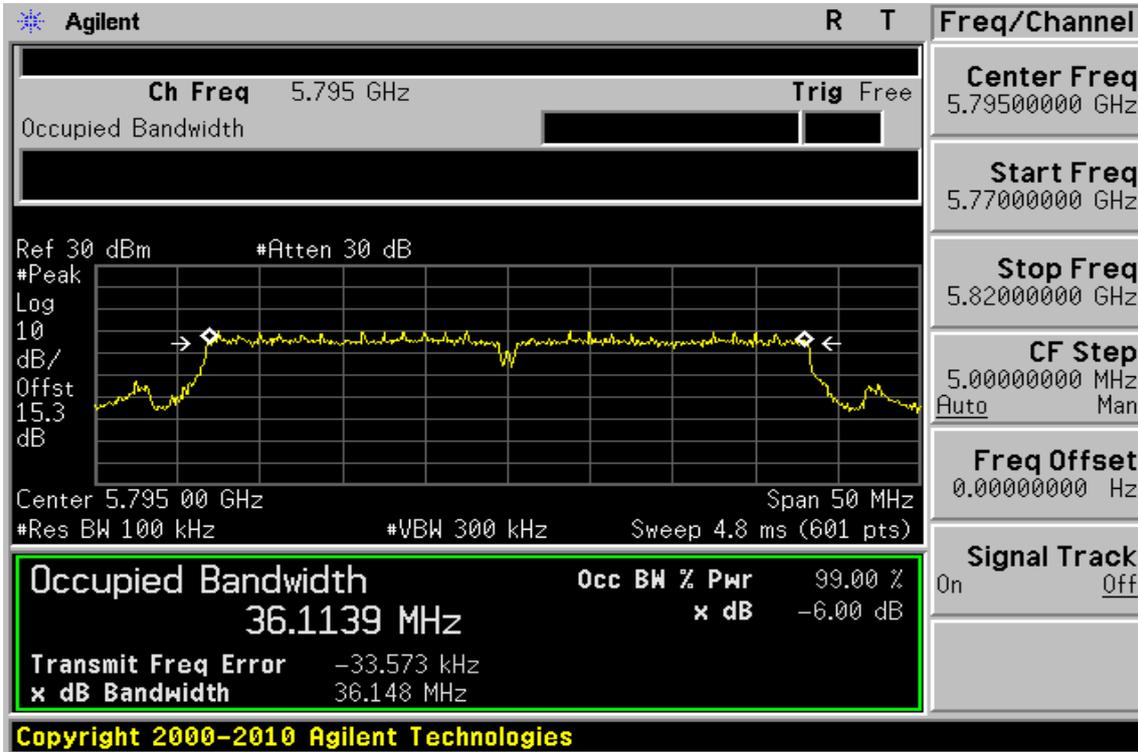


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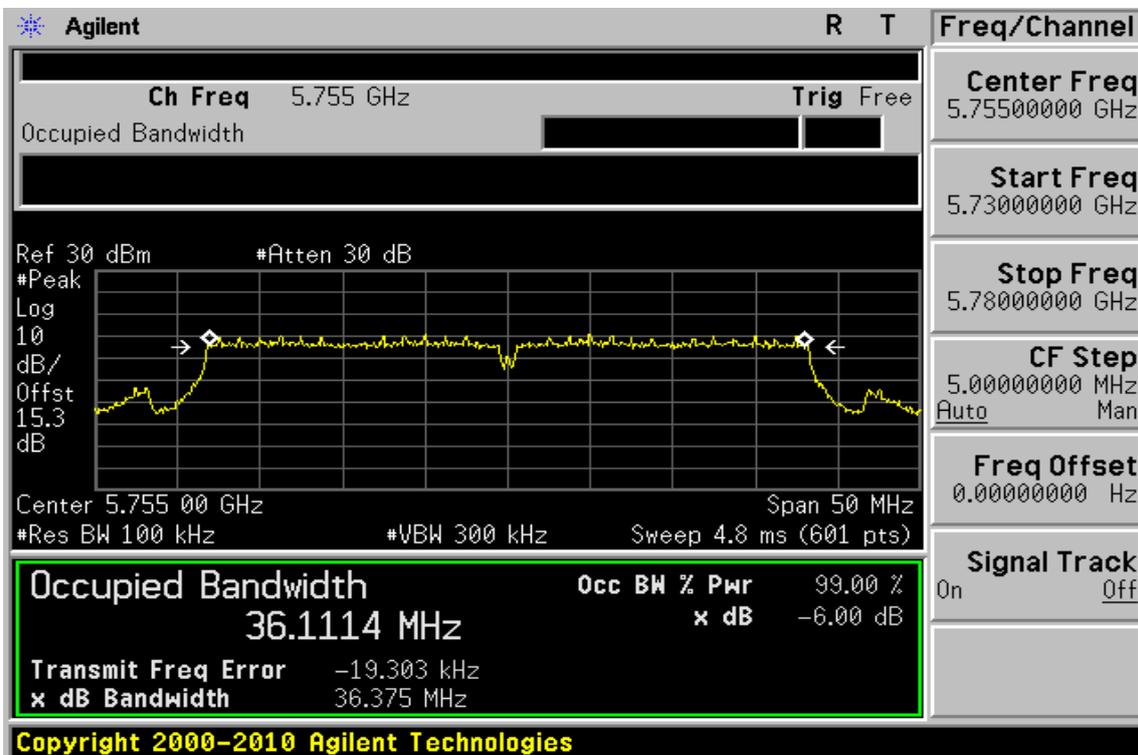
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6dB Band Width Test Data CH-High



802.11n (5GHz)_40M MIMO-Aux

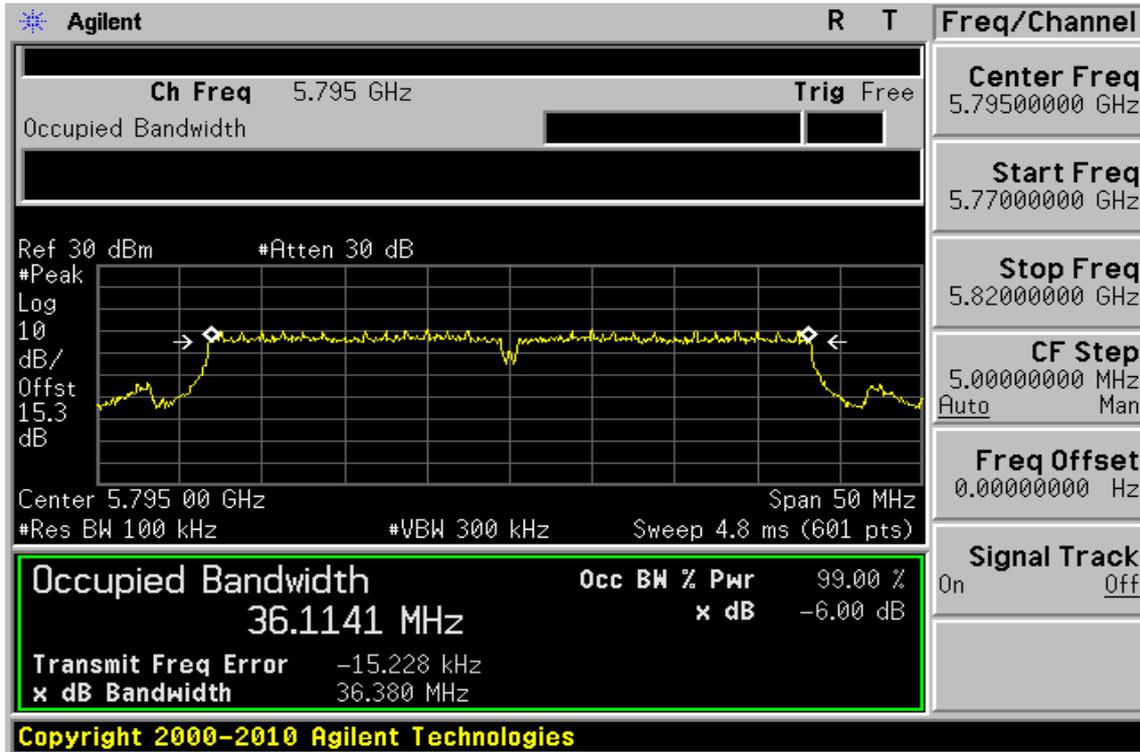
6dB Band Width Test Data CH-Low



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6dB Band Width Test Data CH-High



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9 BAND EDGES MEASUREMENT

9.1 Standard Applicable:

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

9.2 Measurement Equipment Used:

9.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

9.2.2 Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100759	02/08/2013	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
Horn Antenna	Schwarzbeck	BBHA9170	184	01/17/2012	01/16/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	02/28/2013	02/28/2014
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2013	01/03/2014
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014
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	01/04/2013	01/03/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

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966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/27/2013	05/26/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/02/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/03/2014	01/02/2015
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	02/27/2014	02/26/2015
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/03/2014	01/02/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	02/27/2014	02/26/2015
Low Loss Cable	Huber Suhner	966_Rx	9	01/03/2014	01/02/2015

Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

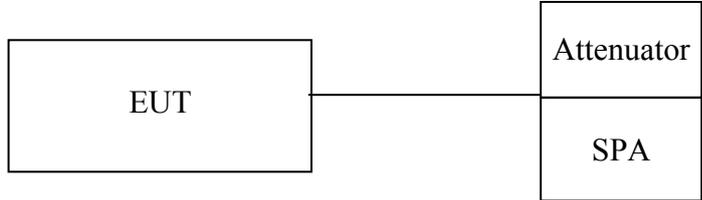
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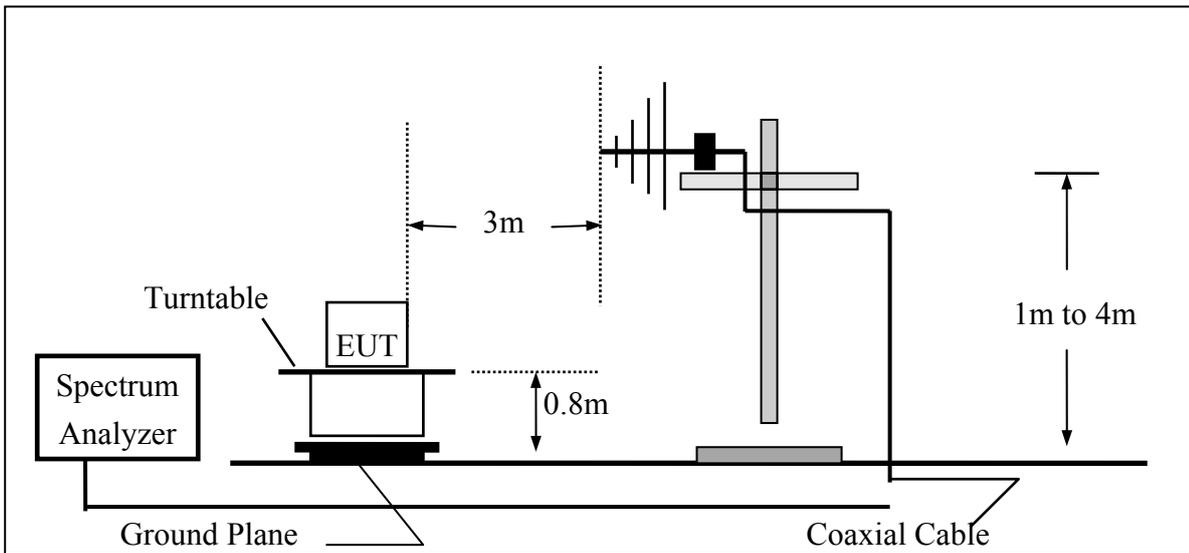
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

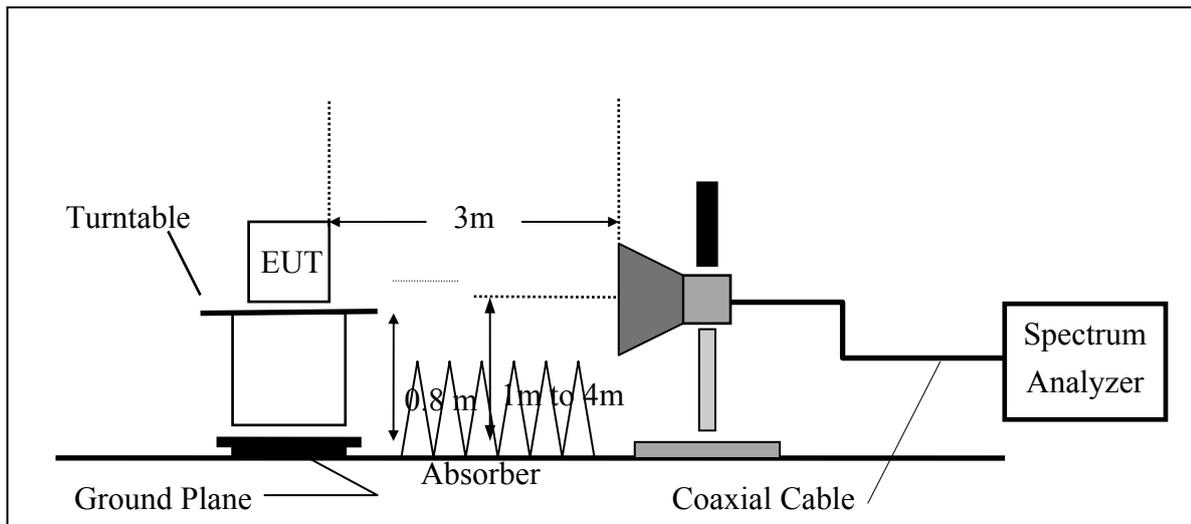


9.3.2 Radiated emission:

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



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9.4 Measurement Procedure:

Unwanted Emissions into Non-Restricted Frequency Bands, Measurement Procedure followed by 11.1 of KDB558074 D01

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
4. Set the spectrum analyzer as RBW, VBW=300KHz, Detector = Peak, Sweep = auto
5. Mark the highest reading of the emission as the reference level measurement.
6. Set DL as the limit = reading on marker 1 – 20dBm
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 KHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Unwanted Emission falling into Restricted Frequency Bands, Measurement Procedure followed by 12.1 of KDB558074 D01

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When 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.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. On spectrum, following 8.1.2, and RBW = 1MHz, VBW = 3MHz, & Marker 2390MHz, and 2483.5MHz (Peak Measurement). Average Measurement: following 8.2 with the modification span to 1MHz, & RBW = 1MHz, VBW = 3MHz and peak marker function to obtain the highest reading on 2390, and 2483.5MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete

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Note: For MIMO operation, directional gain is not subjected to offset back as prescribe in KDB 662911 D01 for relative out-of-band measurement, including conducted bandedge falling into non-restricted frequency band.

9.5 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	

9.6 Measurement Result:

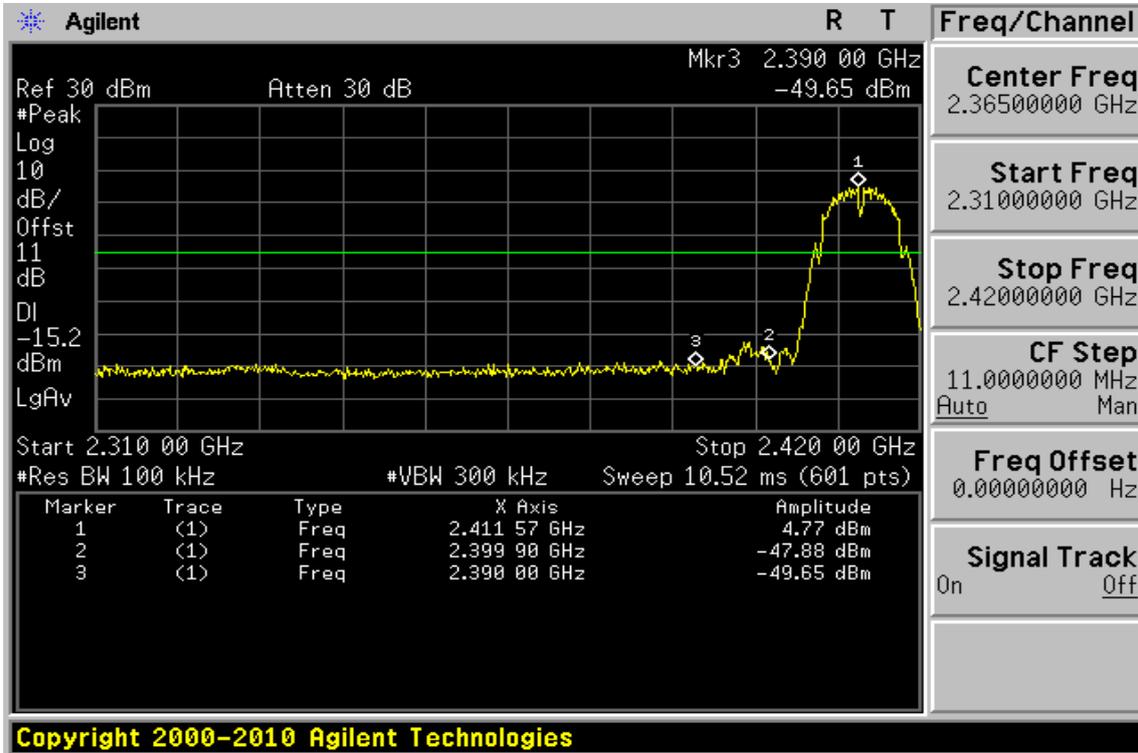
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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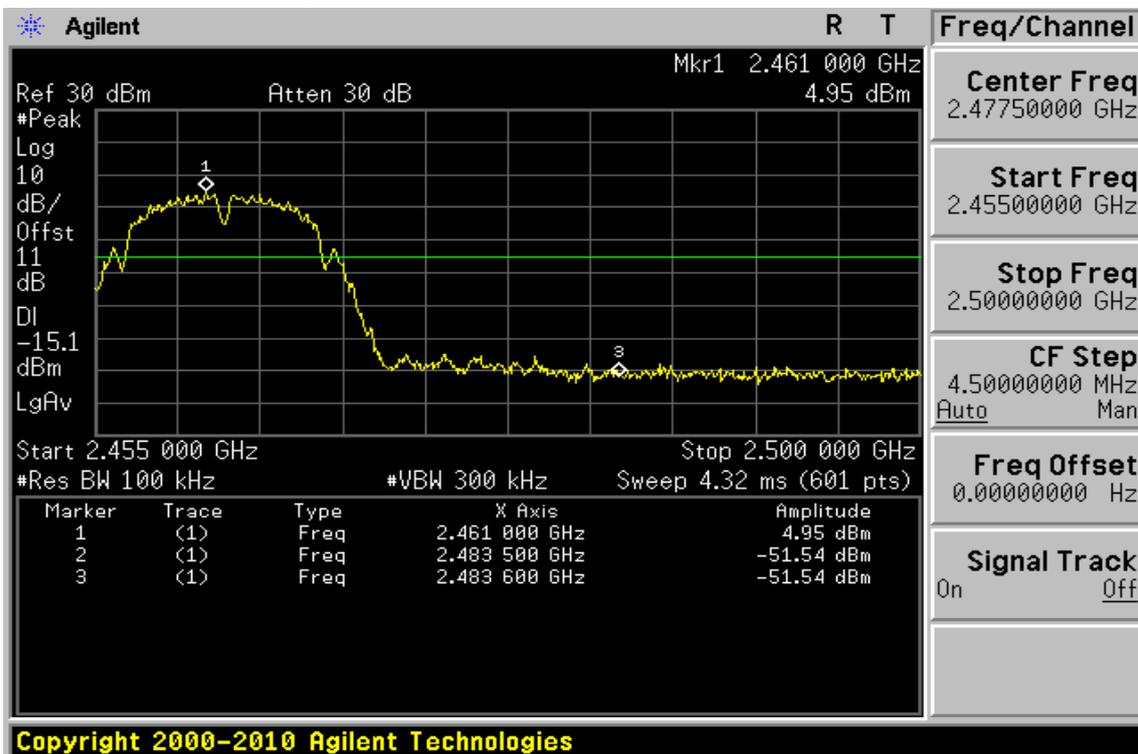
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802.11b - Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

(Unwanted Emissions into Restricted Frequency Bands): 802.11 b mode

Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2390.00	E	Average	41.62	2.42	44.04	54.00	-9.96
2390.00	E	Peak	49.68	2.42	52.10	74.00	-21.90

Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_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.

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
2390.00	E	Average	44.81	2.42	47.23	54.00	-6.77
2390.00	E	Peak	51.58	2.42	54.00	74.00	-20.00

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2483.50	E	Average	39.90	2.74	42.64	54.00	-11.36
2483.50	E	Peak	49.69	2.74	52.43	74.00	-21.57

Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_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
2483.50	E	Average	44.42	2.74	47.16	54.00	-6.84
2483.50	E	Peak	52.97	2.74	55.71	74.00	-18.29

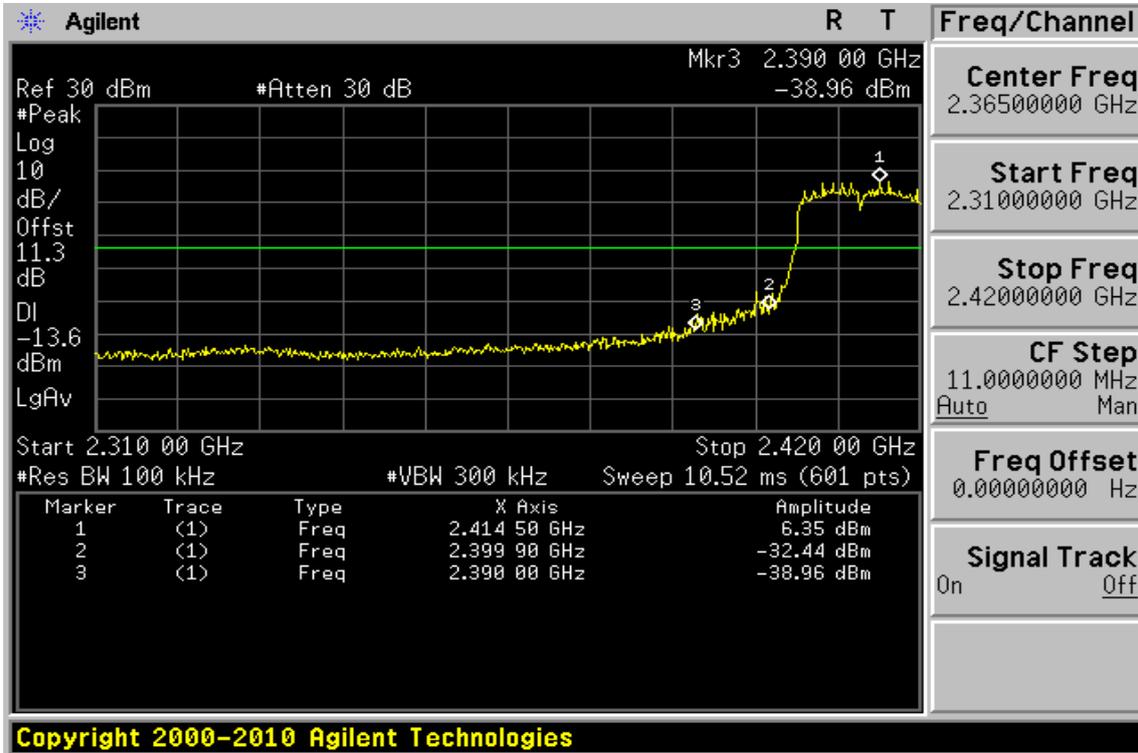
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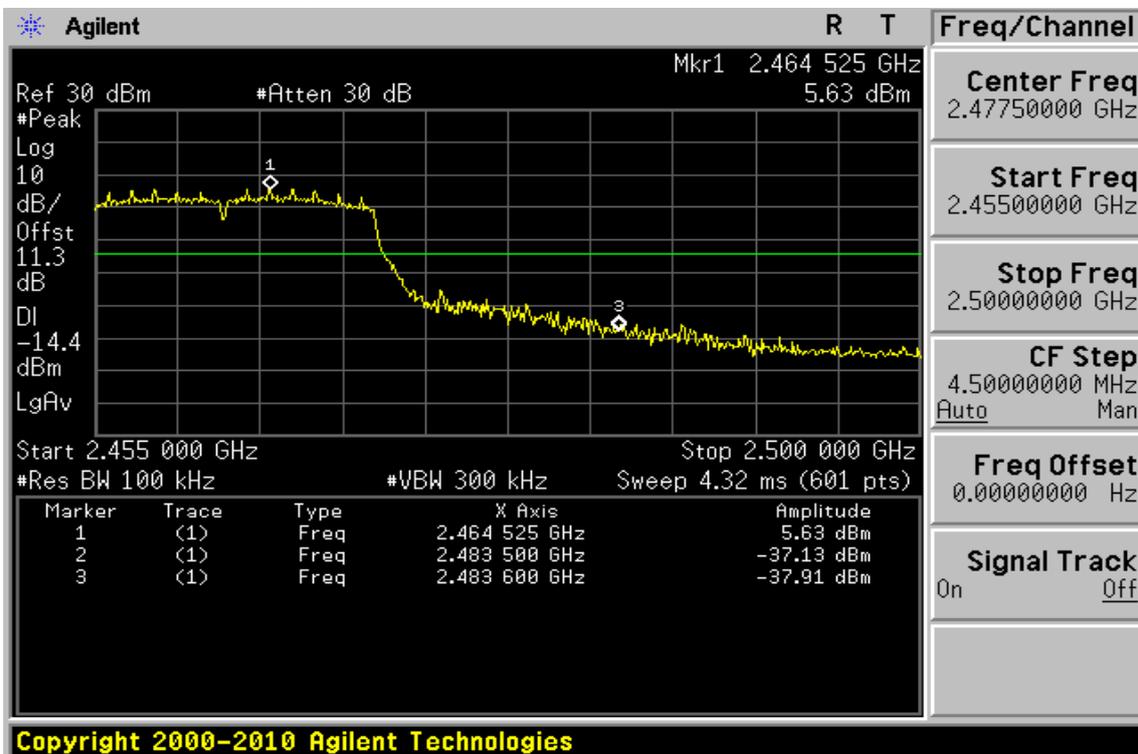
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802.11g - Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission:

(Unwanted Emissions into Restricted Frequency Bands): 802.11 g mode

Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2390.00	E	Average	40.74	2.42	43.16	54.00	-10.84
2390.00	E	Peak	67.30	2.42	69.72	74.00	-4.28

Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_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.

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
2390.00	E	Average	45.08	2.42	47.50	54.00	-6.50
2390.00	E	Peak	69.73	2.42	72.15	74.00	-1.85

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Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2483.50	E	Average	45.10	2.74	47.84	54.00	-6.16
2483.50	E	Peak	64.40	2.74	67.14	74.00	-6.86

Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_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.

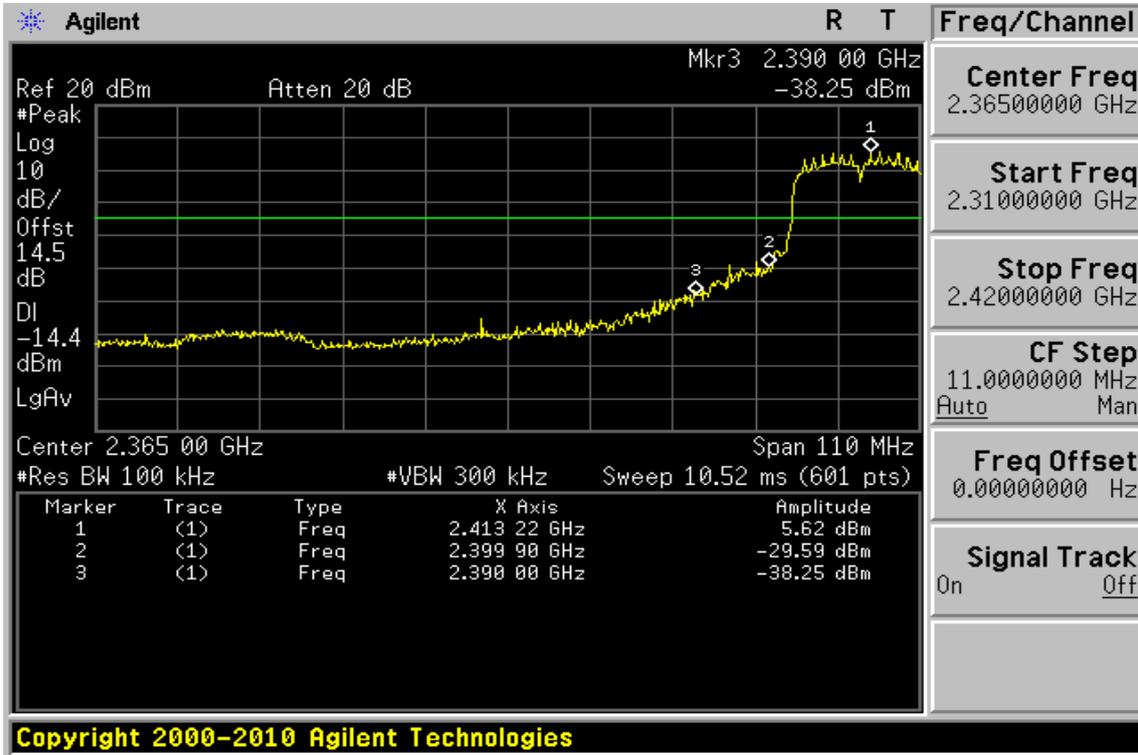
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Average	44.96	2.74	47.70	54.00	-6.30
2483.50	E	Peak	67.54	2.74	70.28	74.00	-3.72

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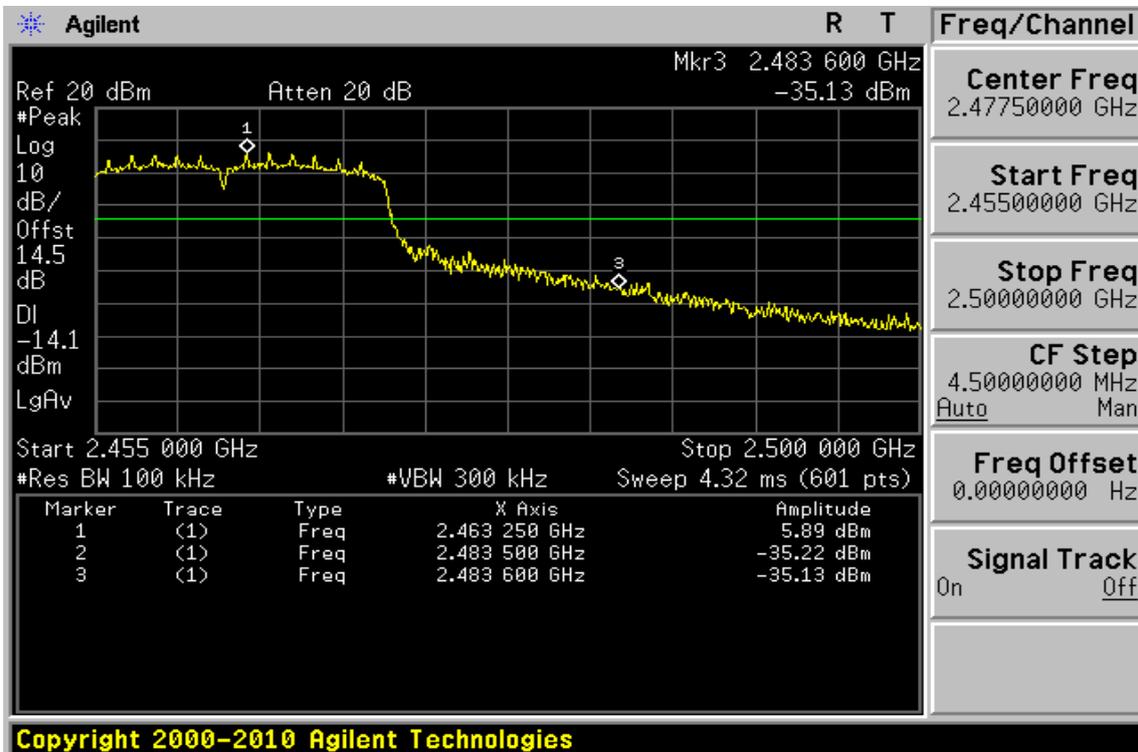
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802.11n_20M- Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 n_20M mode

(Unwanted Emissions into Restricted Frequency Bands): 802.11 n_20M mode

Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2390.00	E	Average	43.64	2.42	46.06	54.00	-7.94
2390.00	E	Peak	69.30	2.42	71.72	74.00	-2.28

Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_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.

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
2390.00	E	Average	41.16	2.42	43.58	54.00	-10.42
2390.00	E	Peak	67.10	2.42	69.52	74.00	-4.48

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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
2483.50	E	Average	43.21	2.74	45.95	54.00	-8.05
2483.50	E	Peak	67.04	2.74	69.78	74.00	-4.22

Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_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.

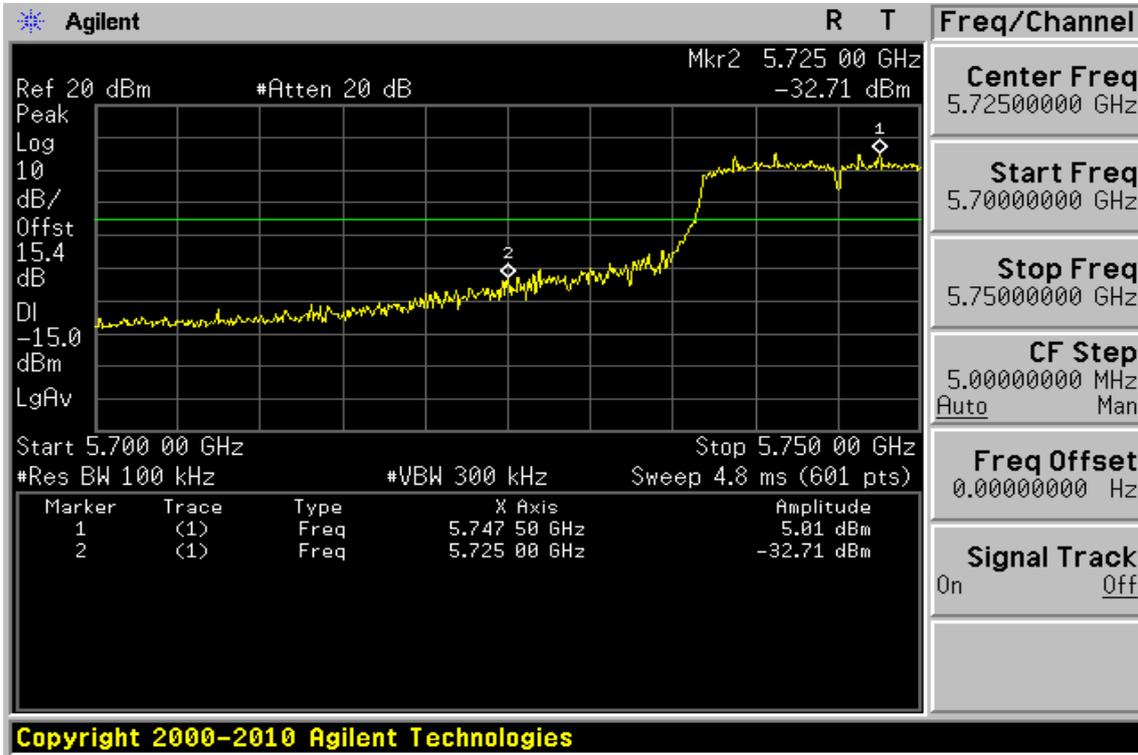
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Average	44.72	2.74	47.46	54.00	-6.54
2483.50	E	Peak	70.44	2.74	73.18	74.00	-0.82

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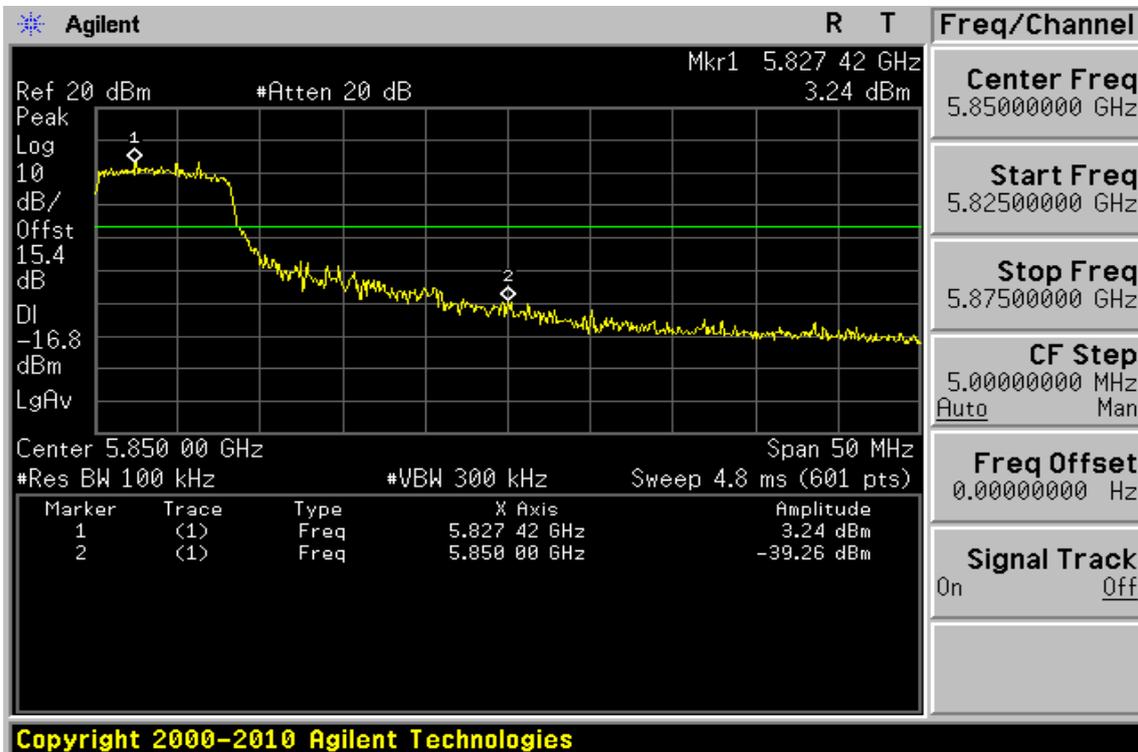
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802.11a - Unwanted Emissions into Non-Restricted Frequency Bands

Band Edges Test Data CH-Low



Band Edges Test Data CH-High

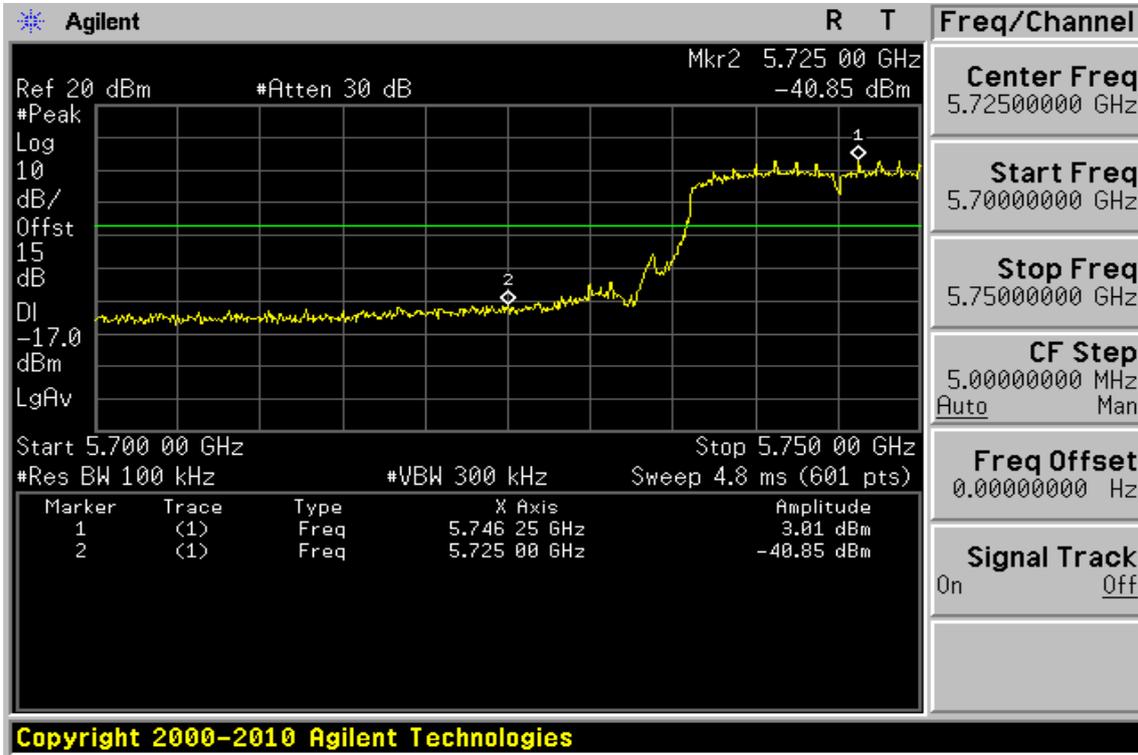


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802.11n (5GHz)_20M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



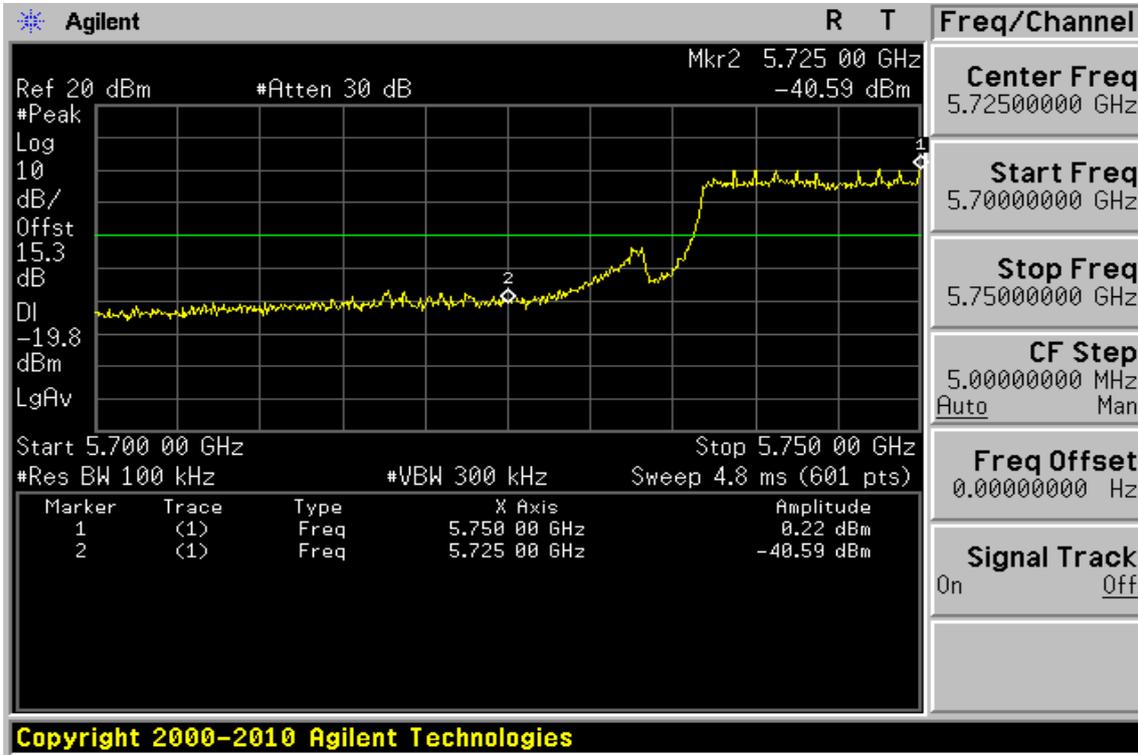
Band Edges Test Data CH-High



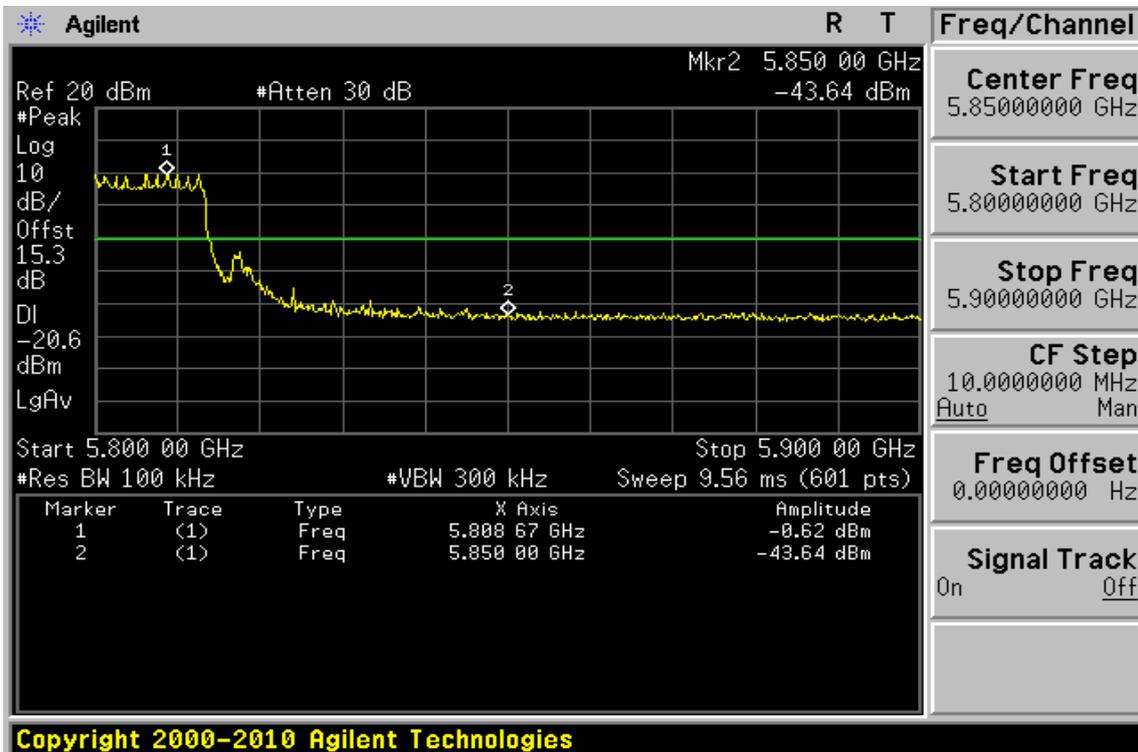
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802.11n (5GHz)_40M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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10 SPURIOUS EMISSION TEST

10.1 Standard Applicable

According to §15.247(d),

Emission at antenna port:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Radiated Spurious Emission

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

10.2 Measurement Equipment Used:

10.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

10.2.2 Radiated emission:

Refer to section 9.2.2 for details.

10.3 Test SET-UP:

10.3.1 Conducted Emission at antenna port:

Refer to section 7.3 for details.

10.3.2 Radiated emission:

Refer to section 9.3.2 for details.

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10.4 Measurement Procedure:

Radiated Emission:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When 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.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
7. Repeat above procedures until all default test channel measured were complete.

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 300K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz, 18G to 40GHz (applicable if operation mode is 5GHz)
4. Via Software, combine 5 spans of frequency range into one plot
5. Repeat above procedures until all default test channel measured were complete.

Note: For MIMO operation, directional gain is not subjected to offset back as prescribe in KDB 662911 D01 for relative out-of-band measurement, including conducted bandedge falling into non-restricted frequency band.

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10.5 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	

10.6 Measurement Result:

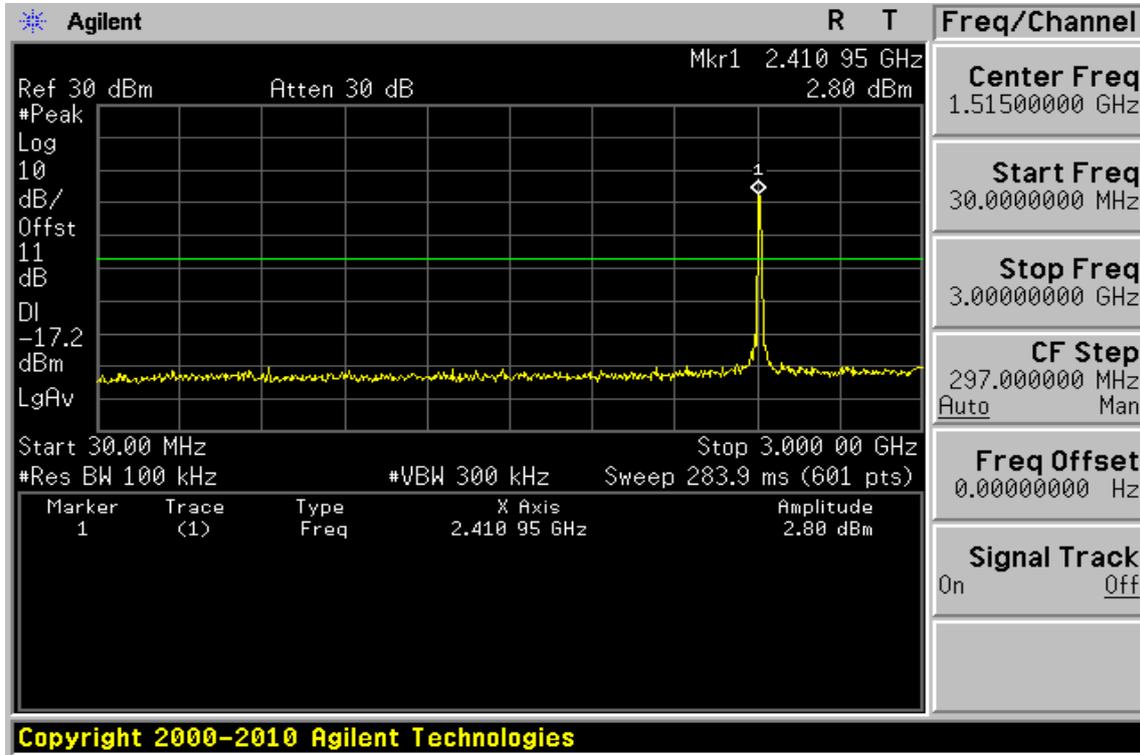
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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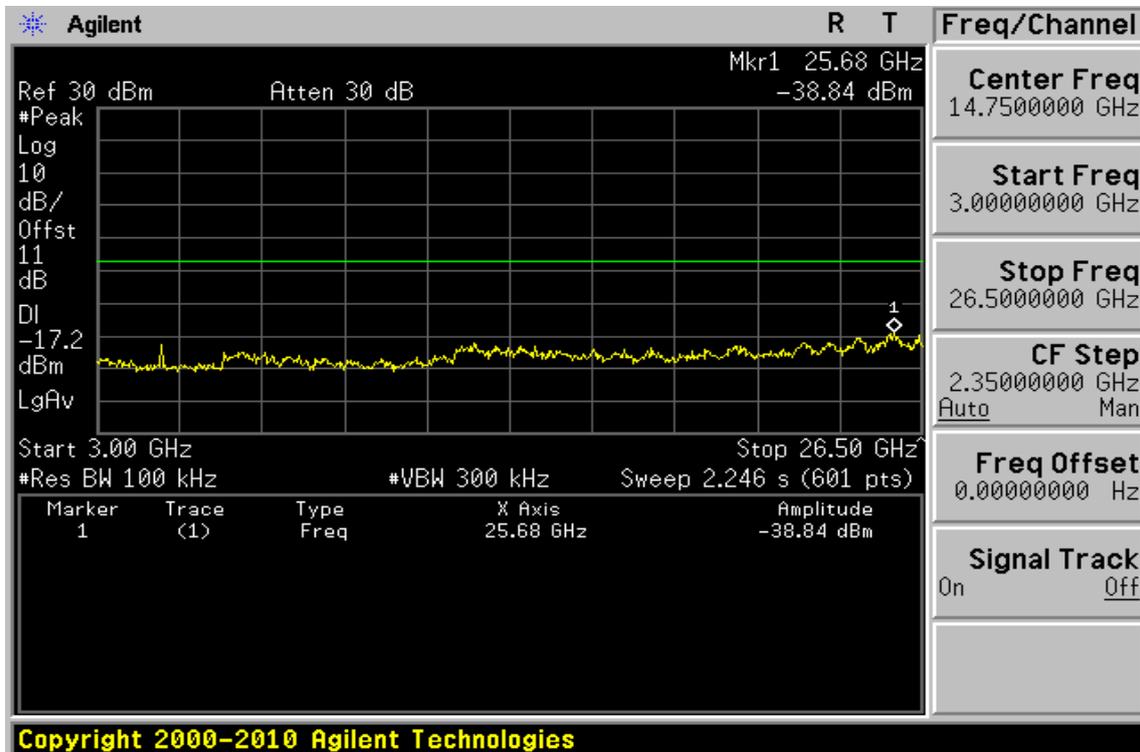
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Conducted Spurious Emission Measurement Result (802.11b)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

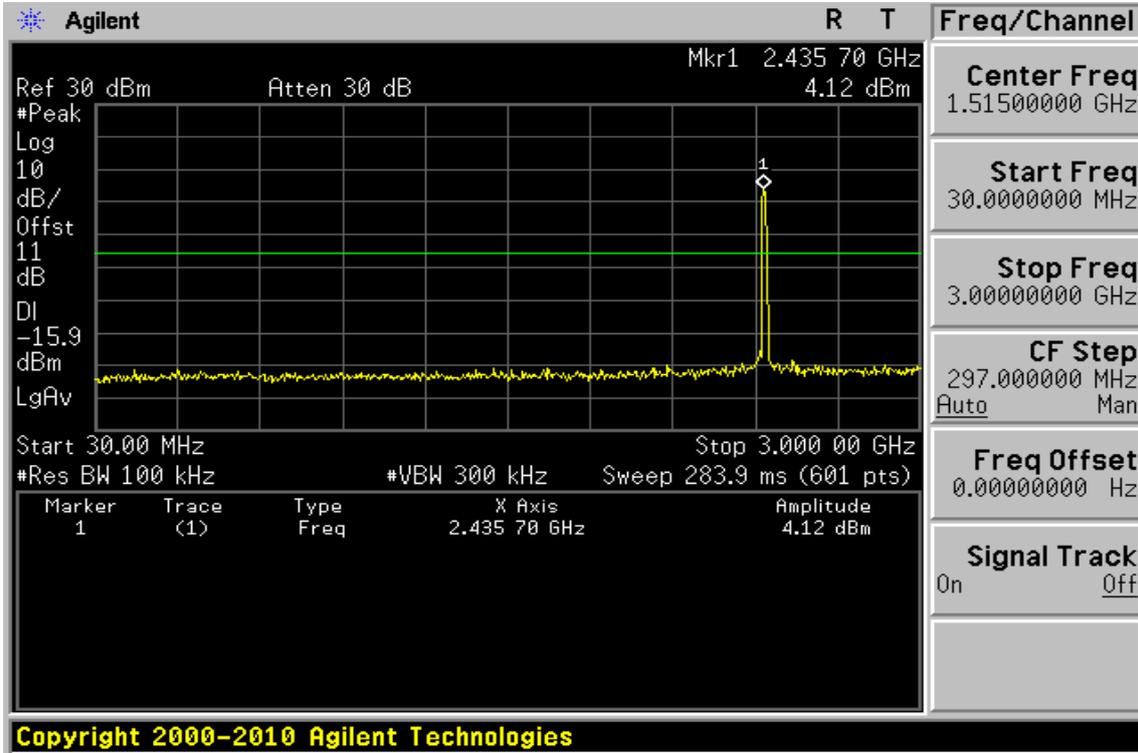


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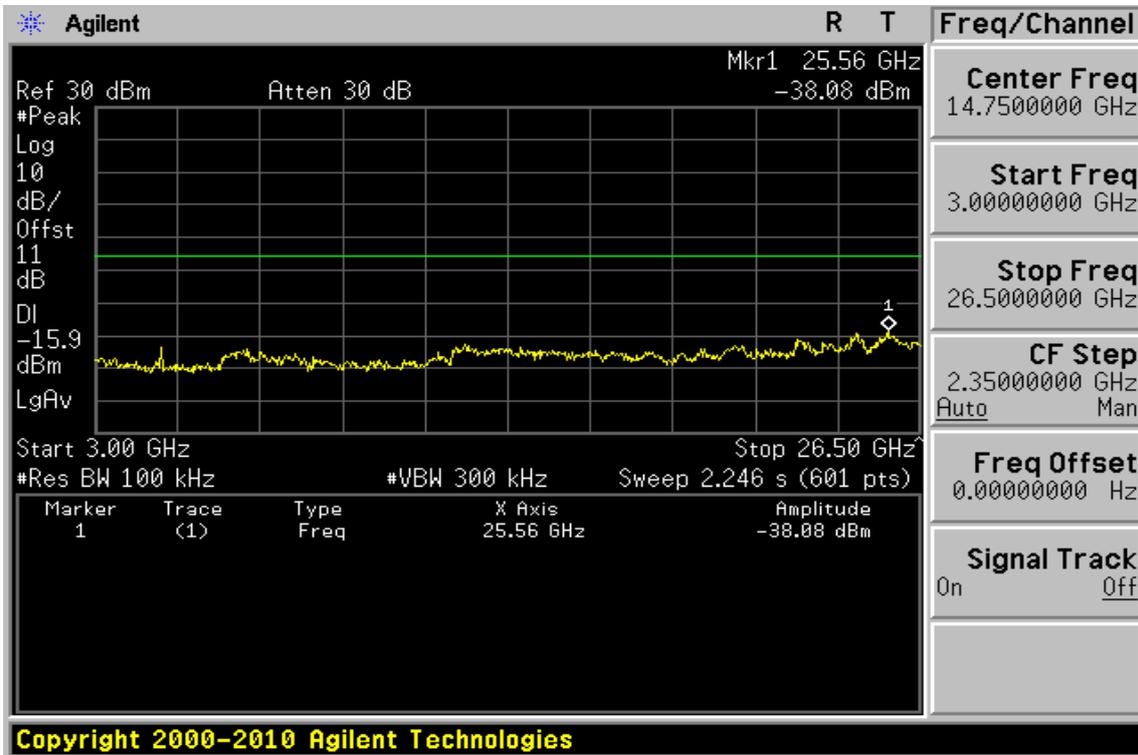
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Ch Mid 30MHz – 3GHz



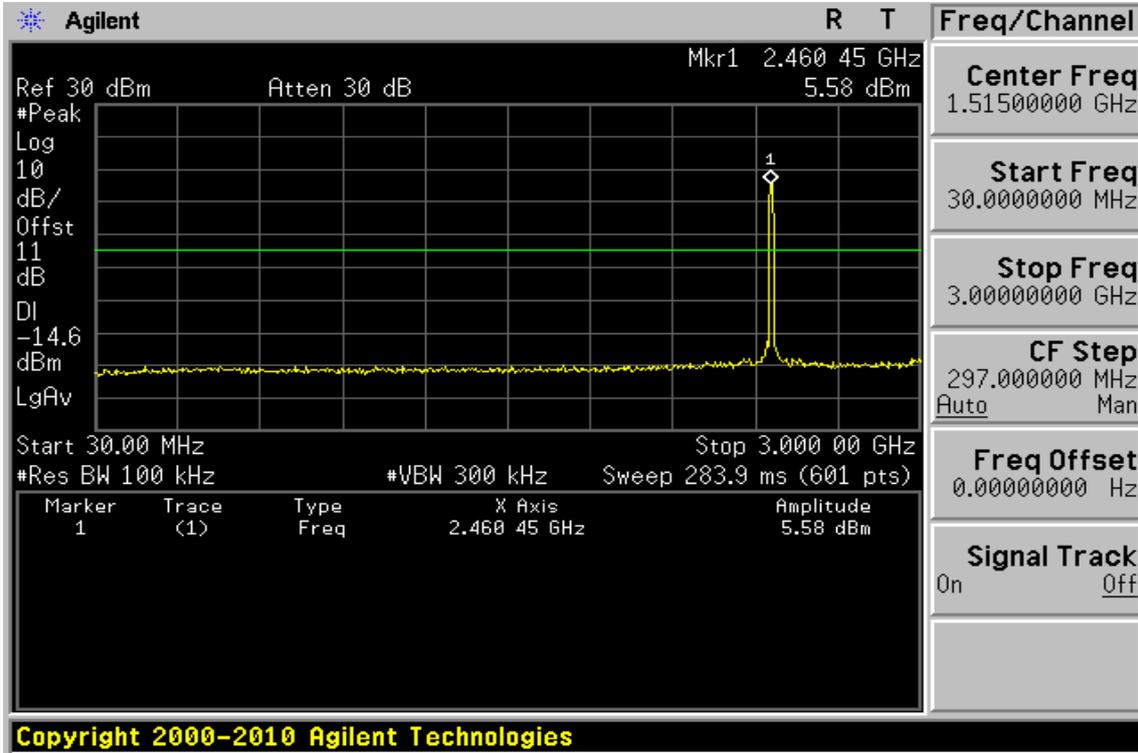
Ch Mid 3GHz – 26.5GHz



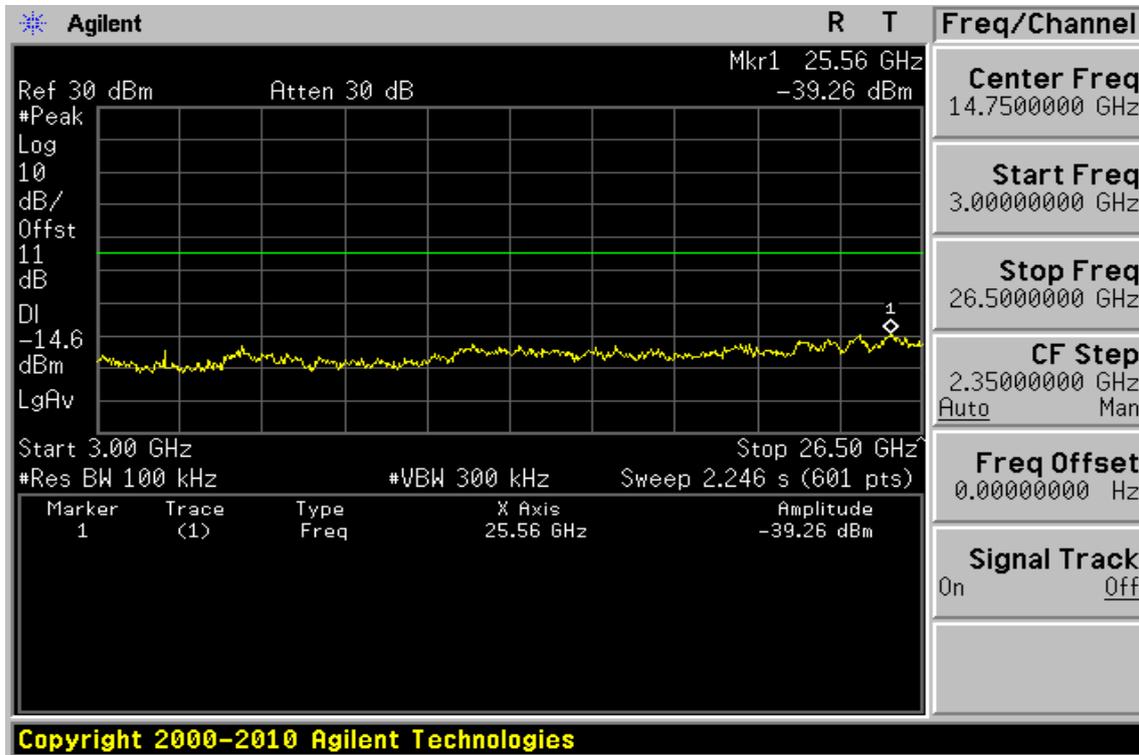
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz

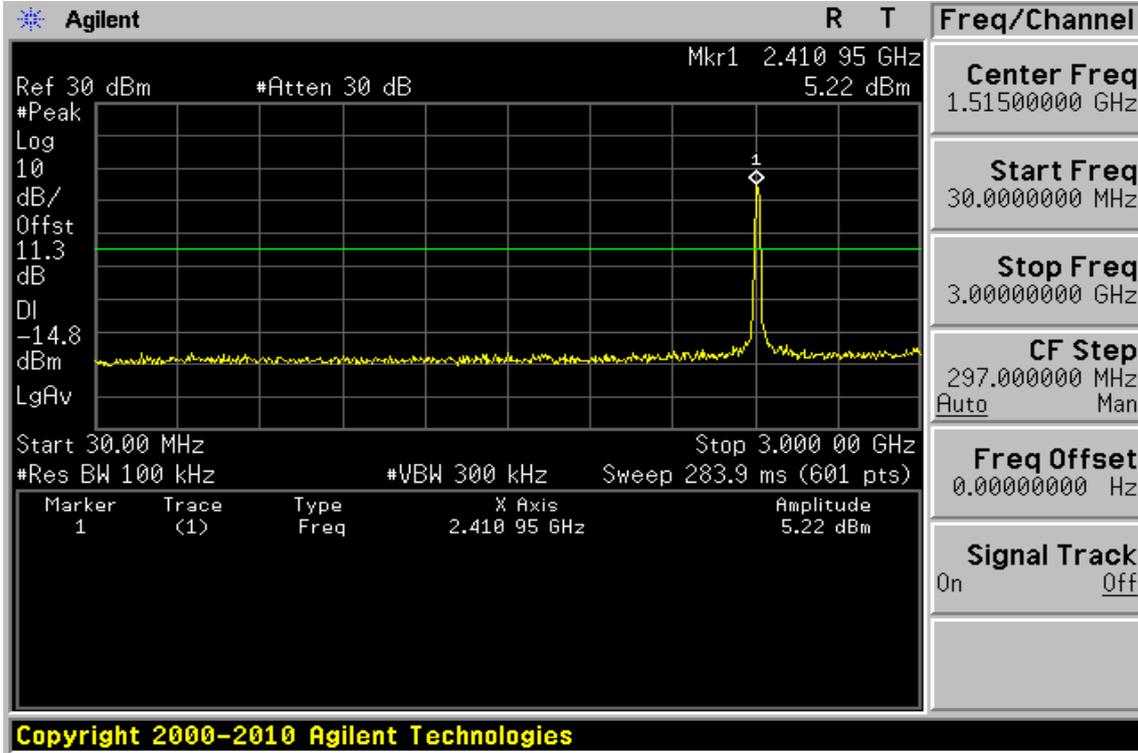


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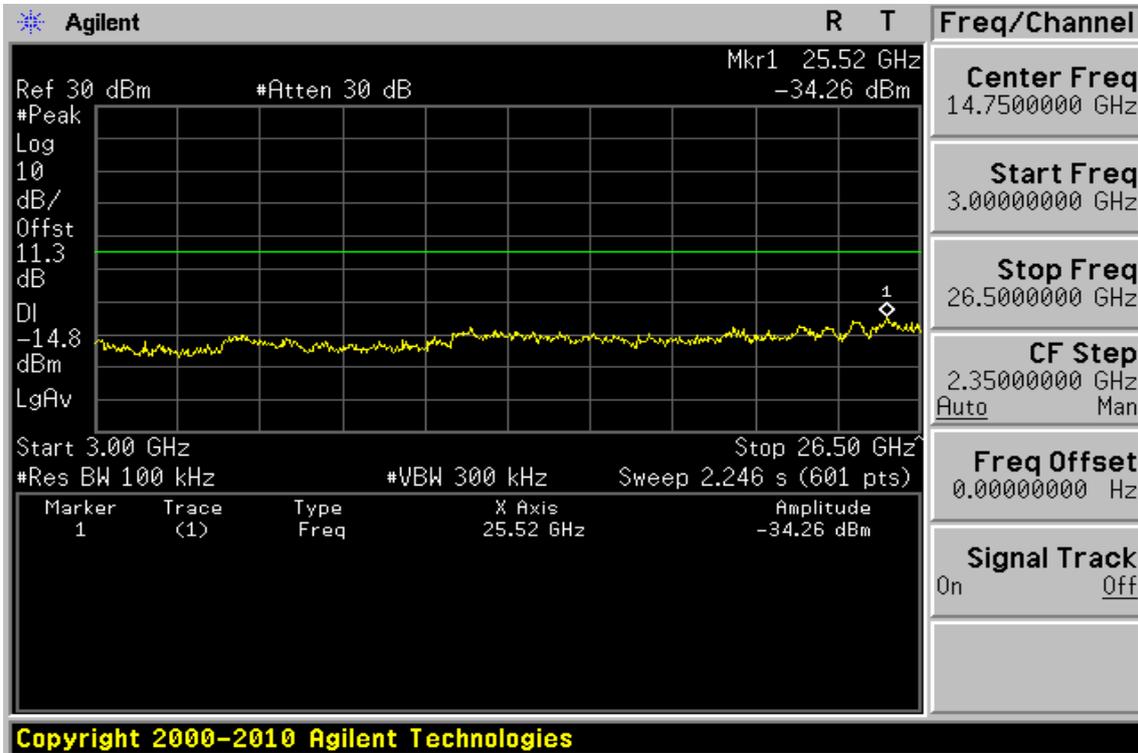
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Conducted Spurious Emission Measurement Result (802.11g)

Ch Low 30MHz – 3GHz



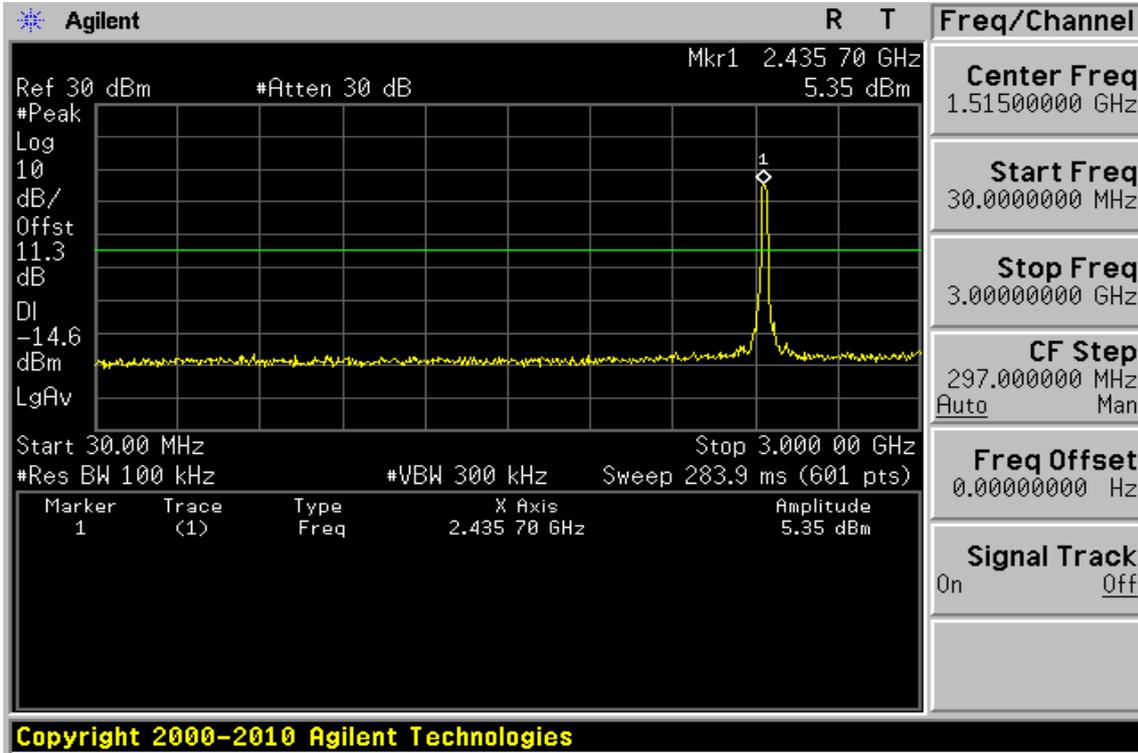
Ch Low 3GHz – 26.5GHz



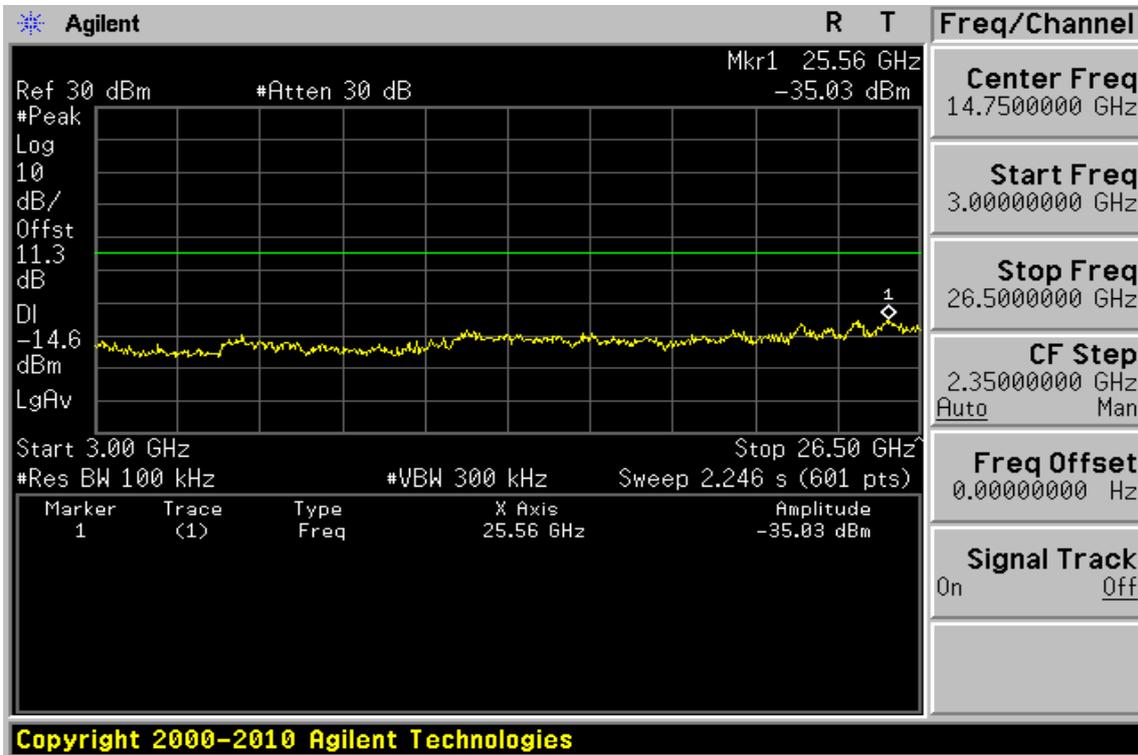
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

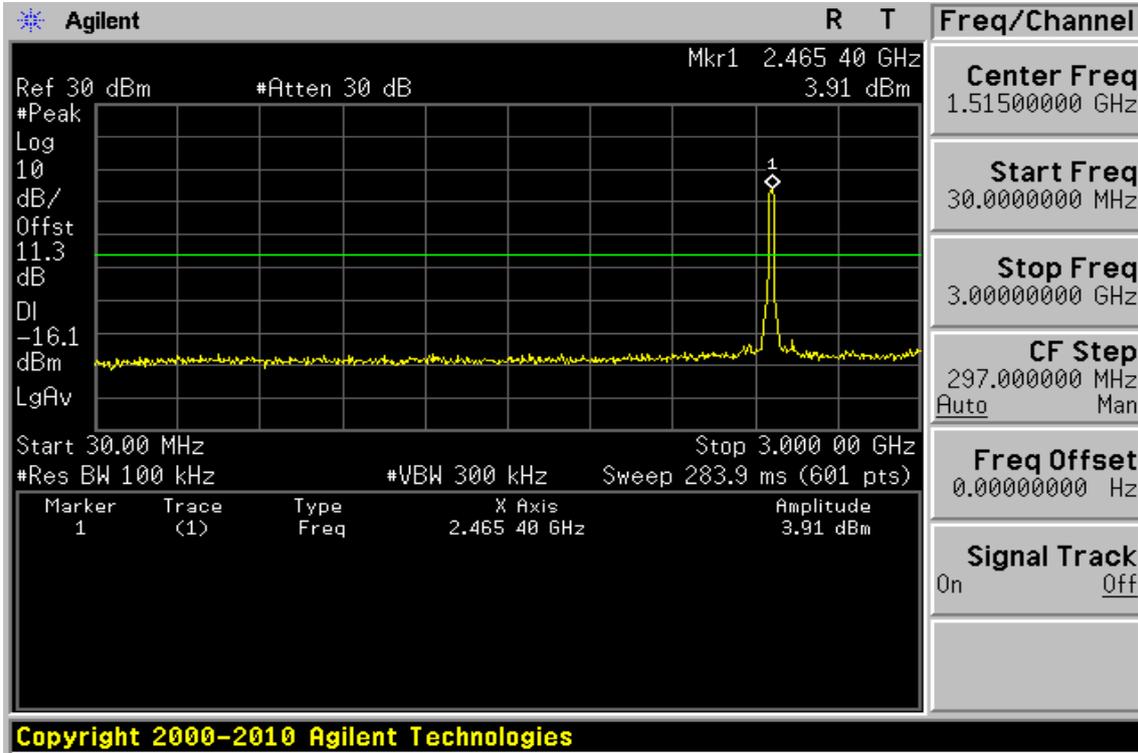


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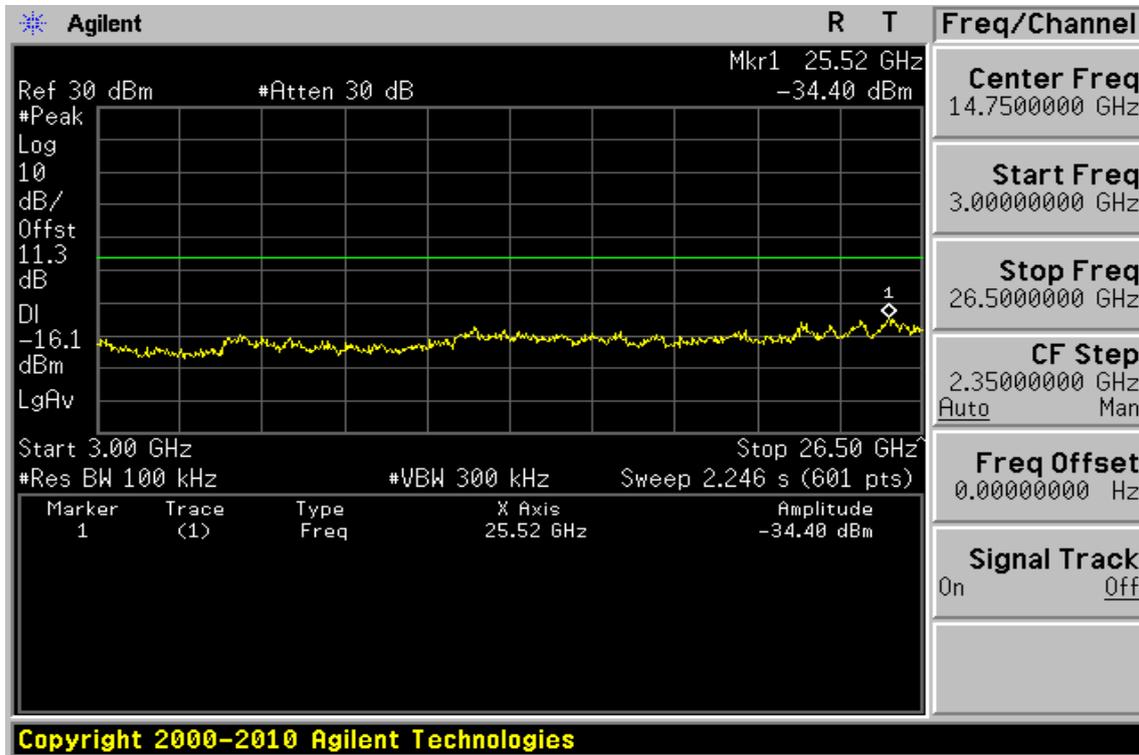
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz

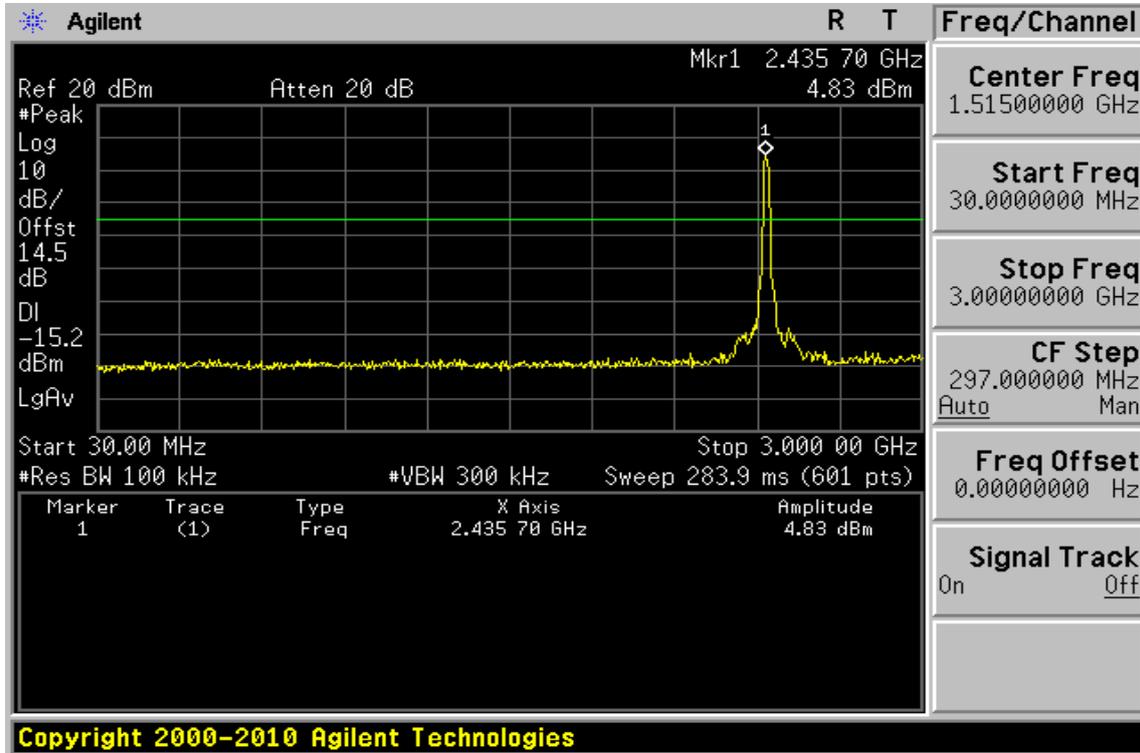


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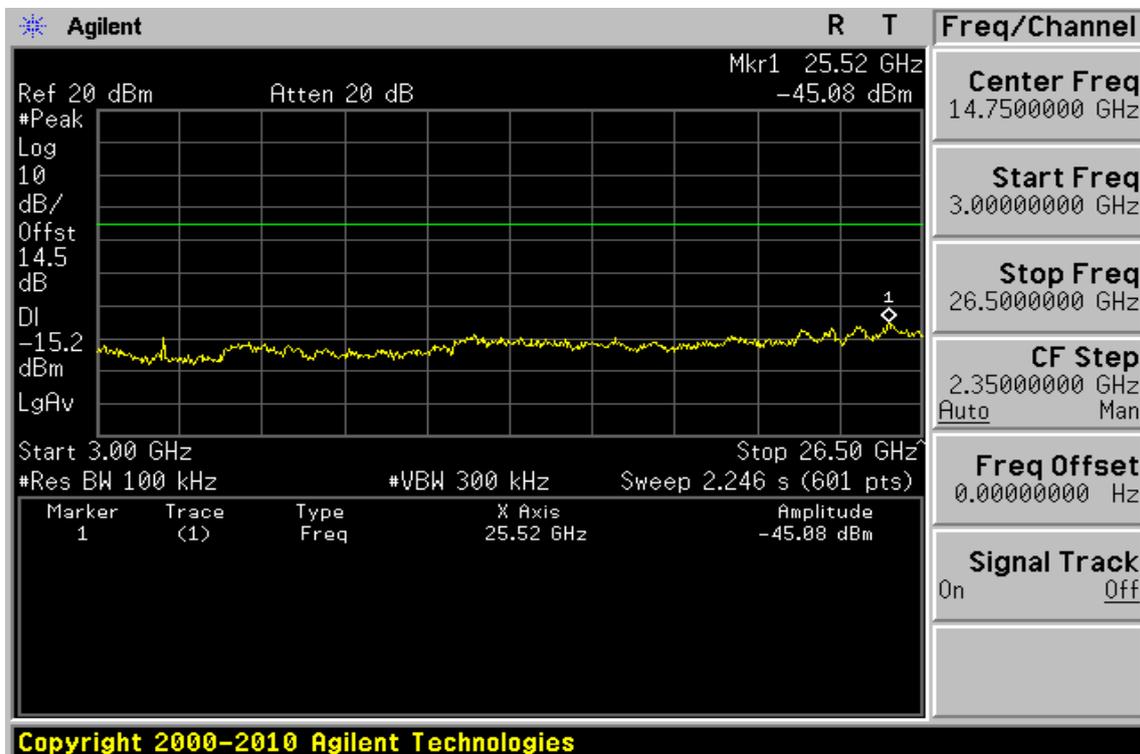
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Conducted Spurious Emission Measurement Result (802.11n_20M)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

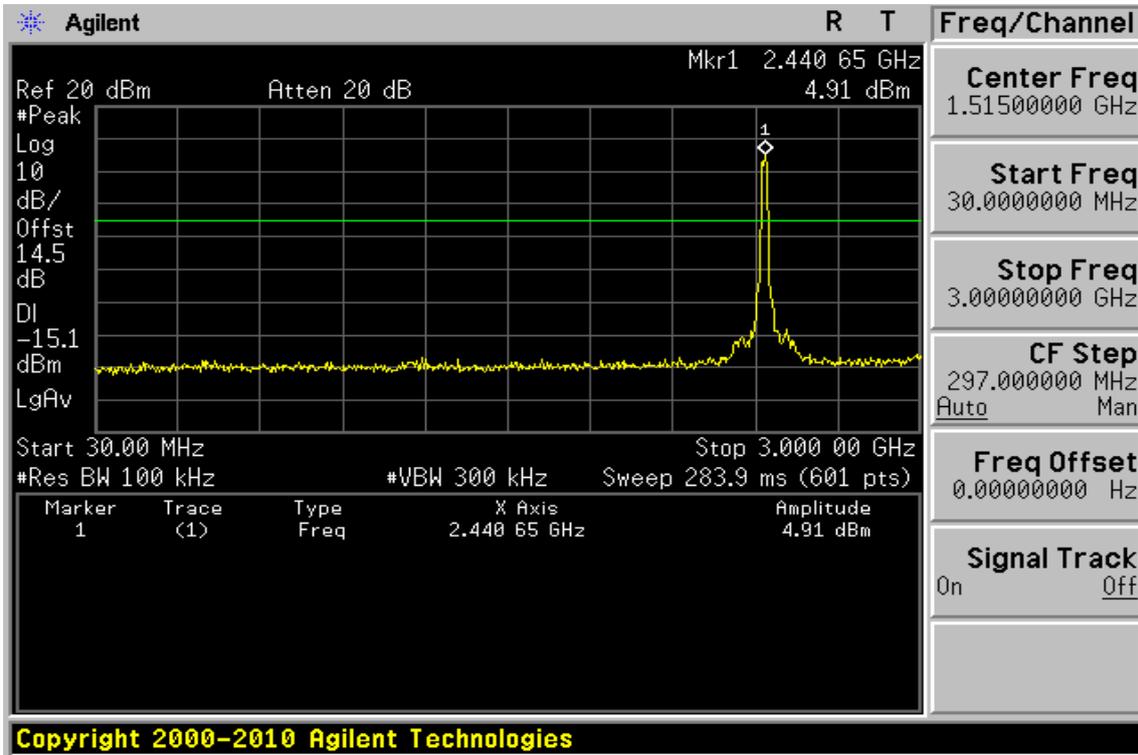


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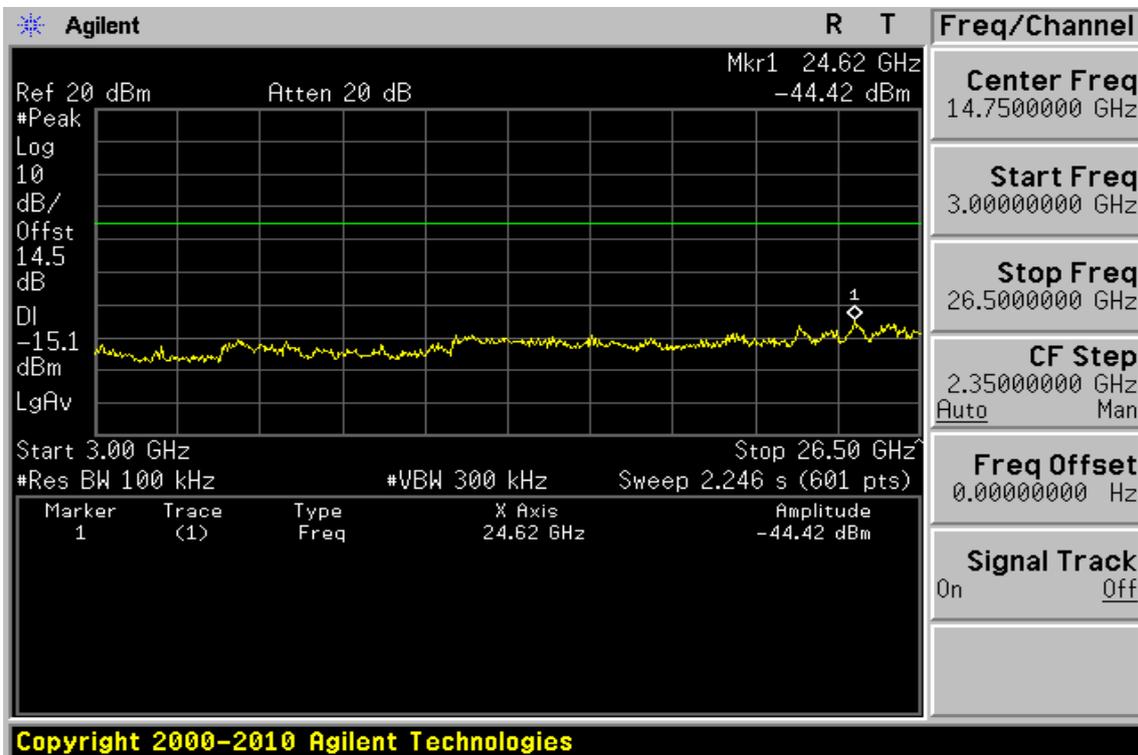
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

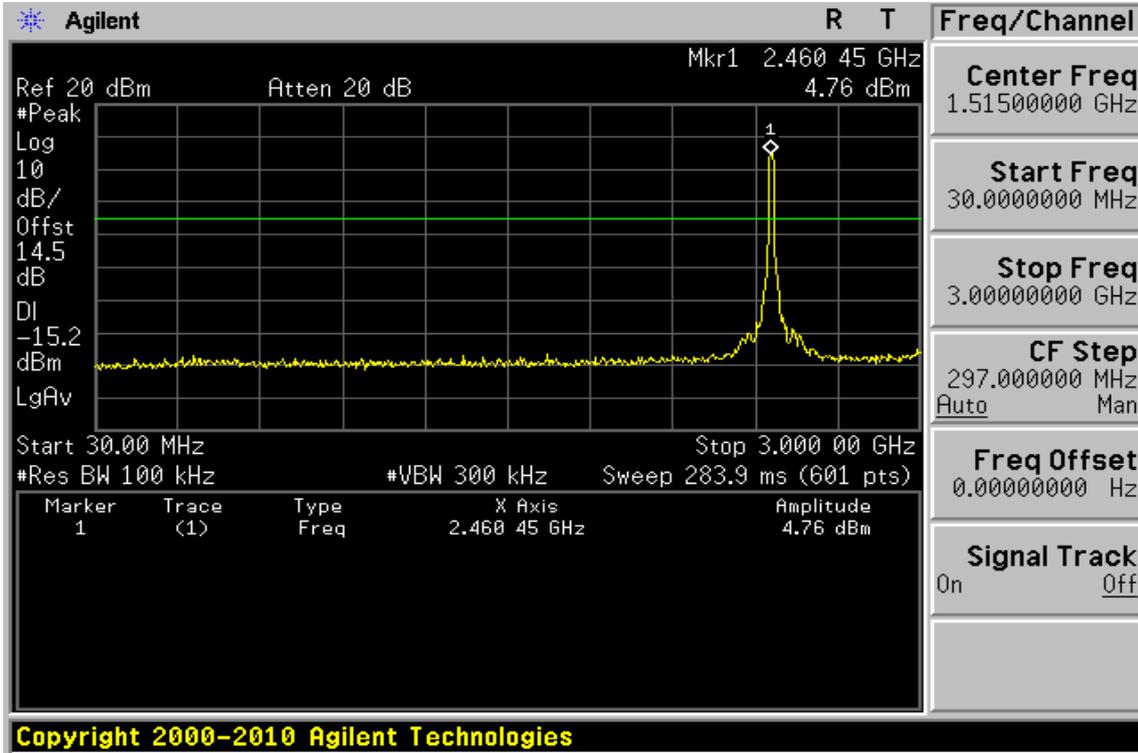


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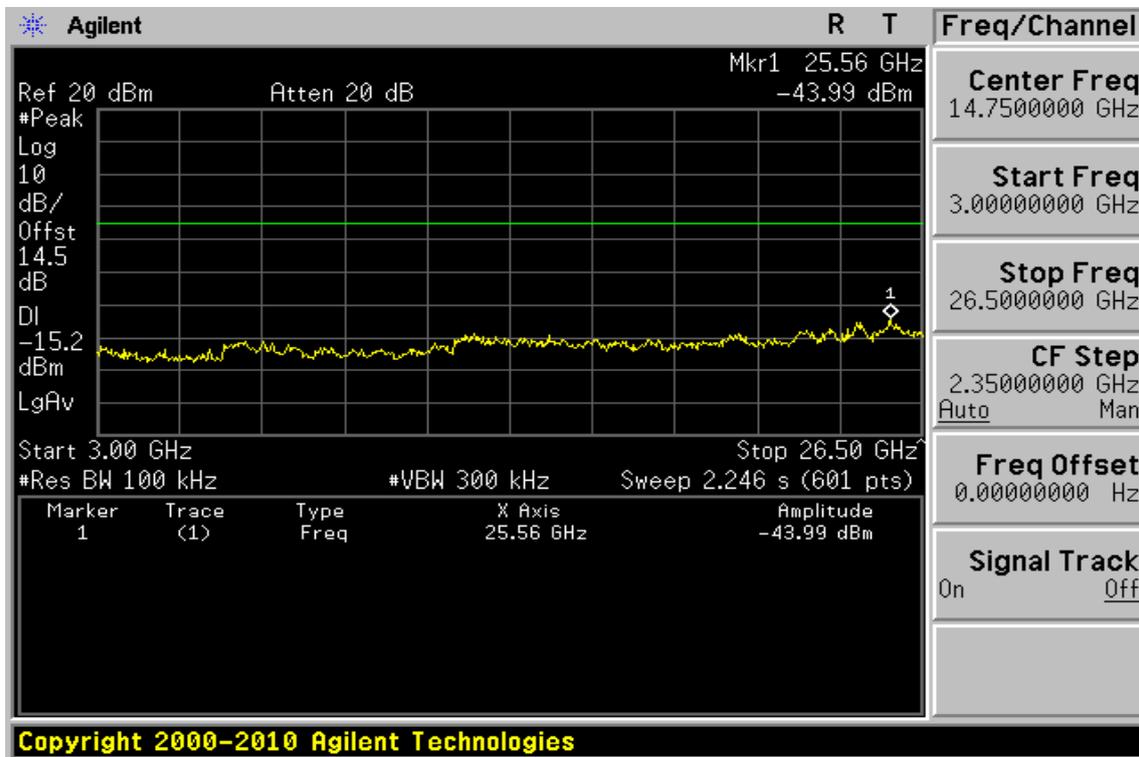
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz

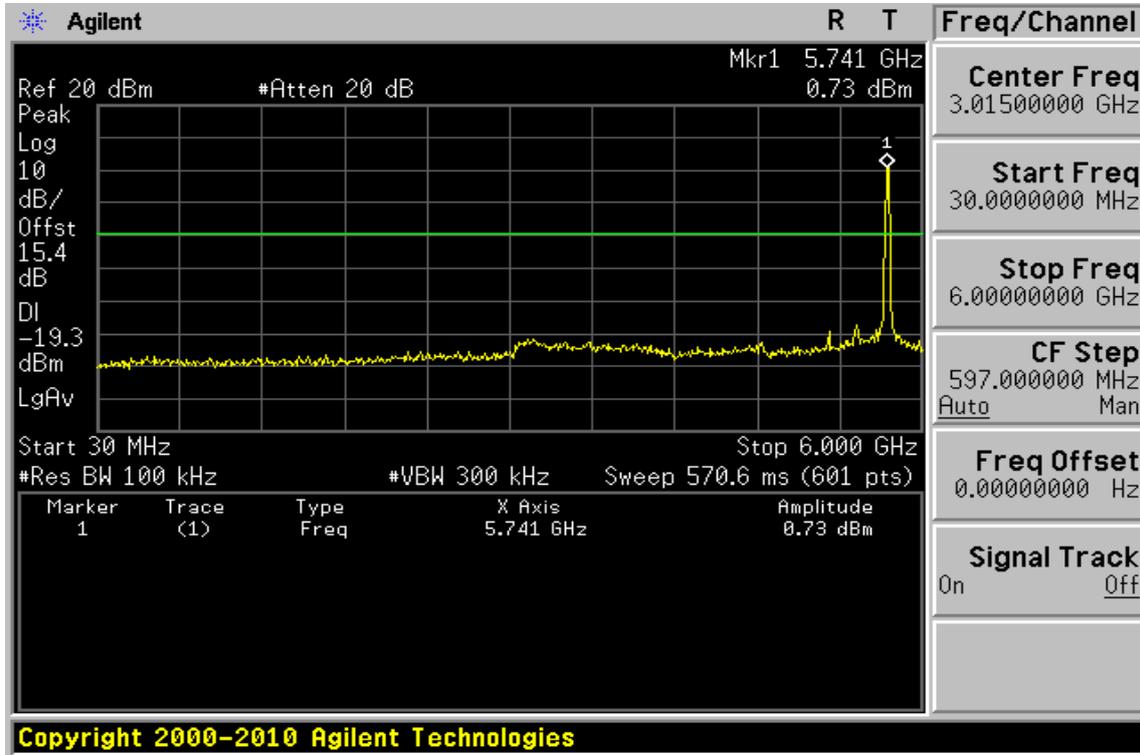


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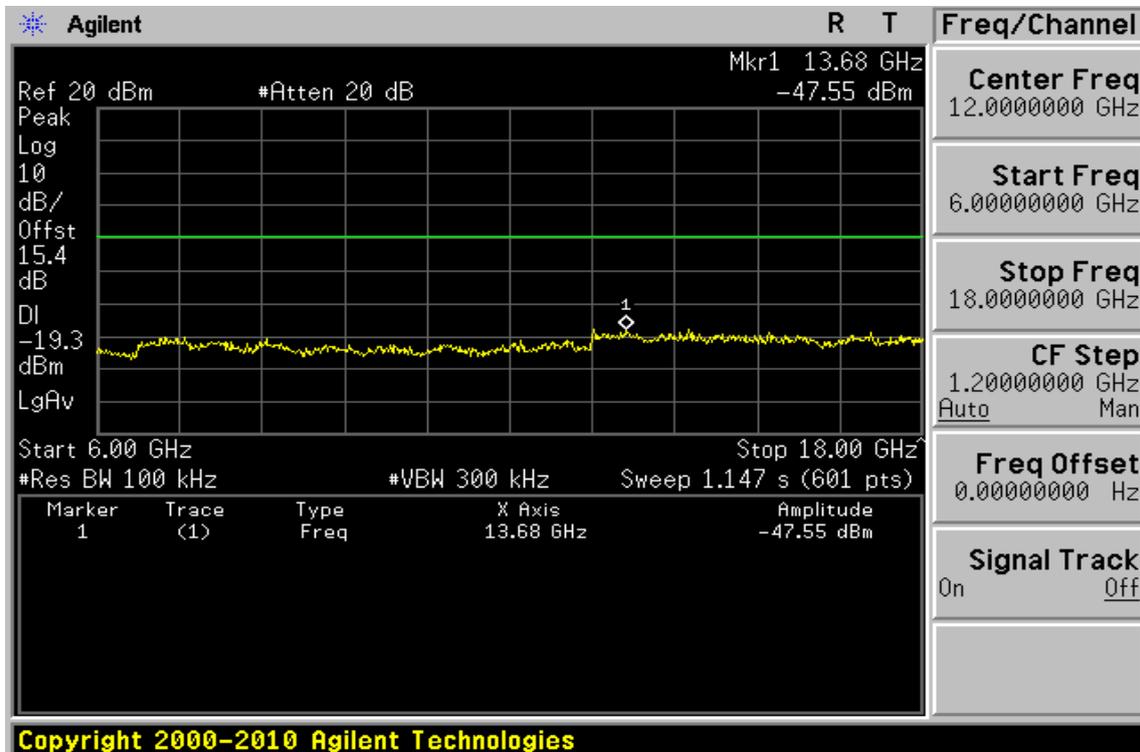
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Conducted Spurious Emission Measurement Result (802.11a)

Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz

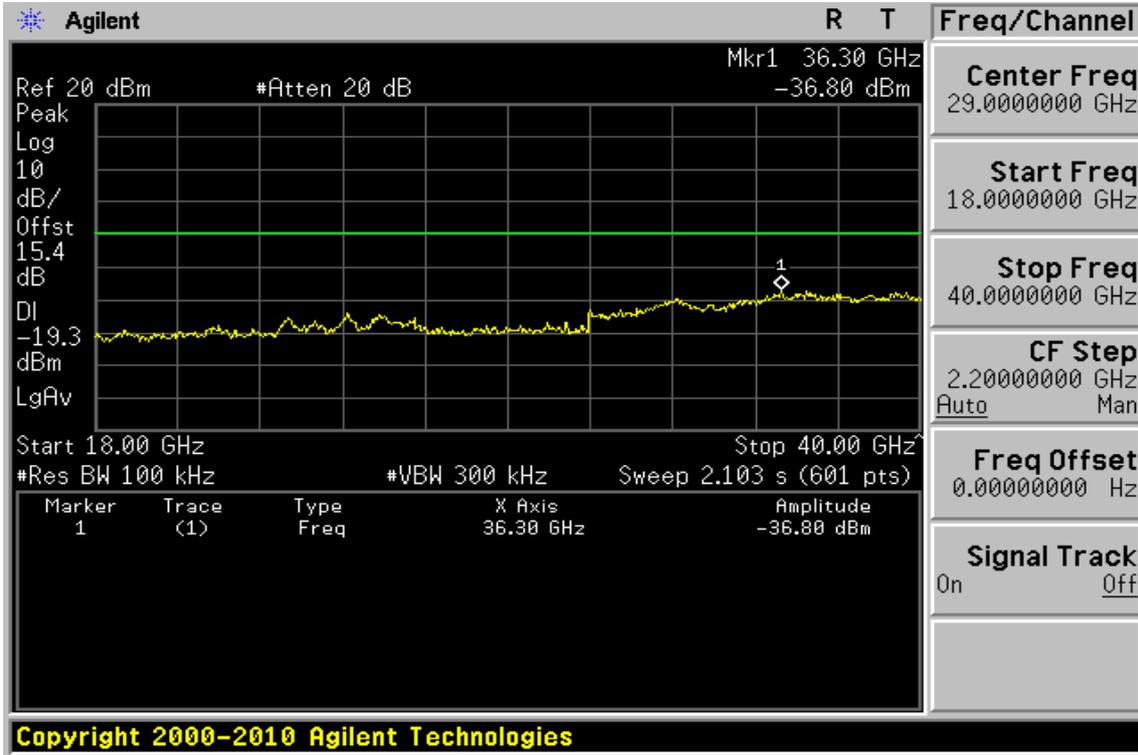


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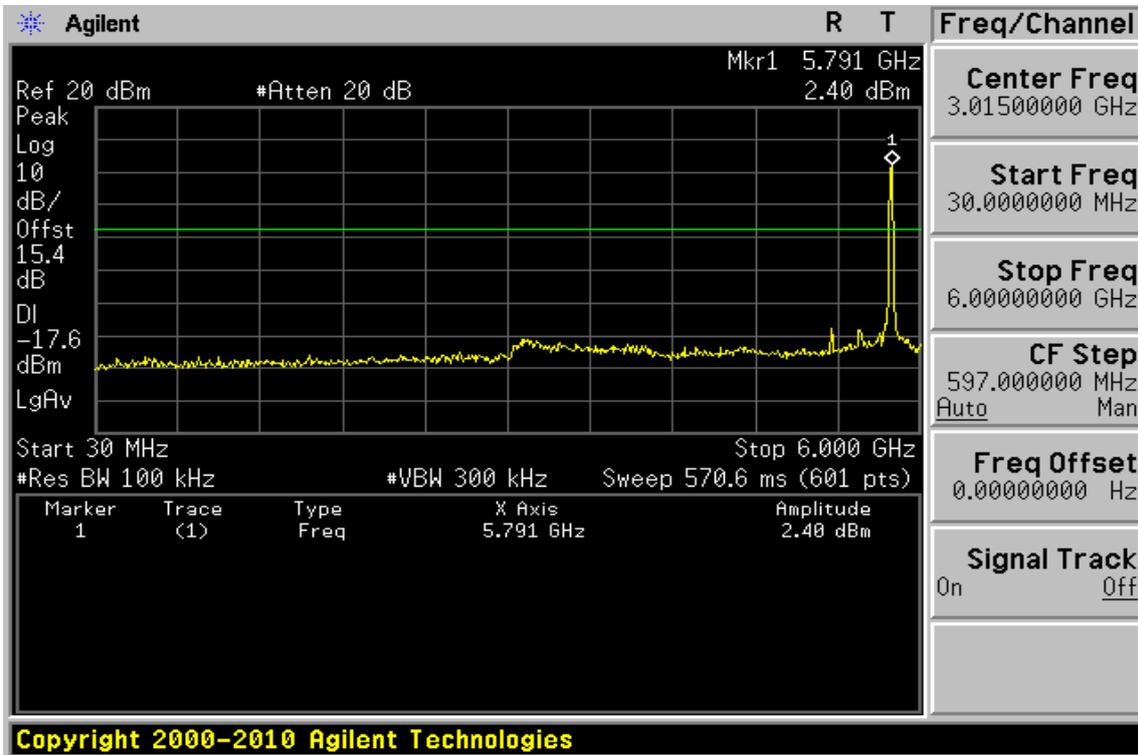
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz

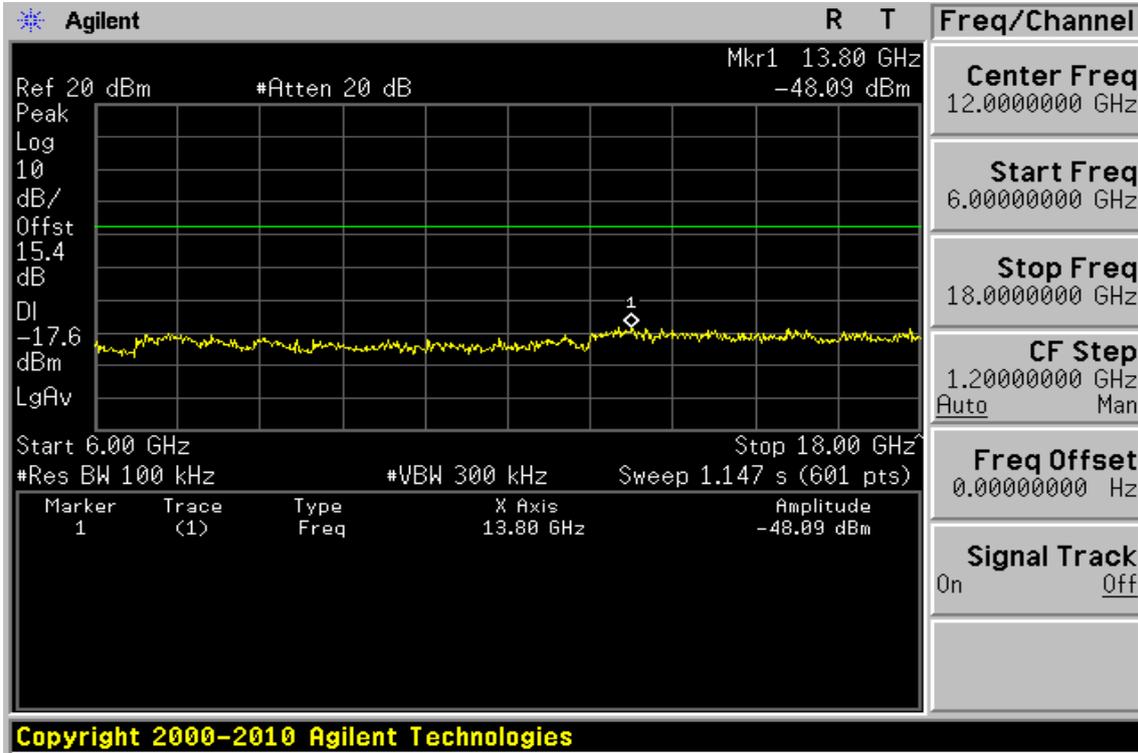


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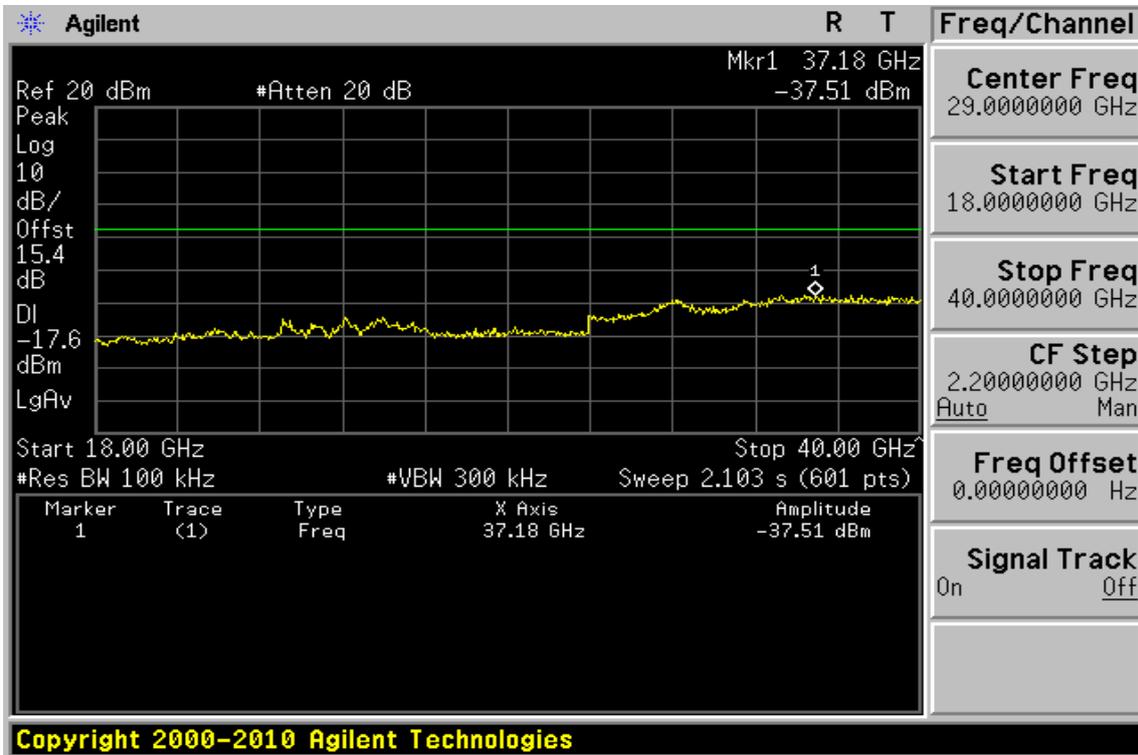
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Ch Mid 6GHz – 18GHz



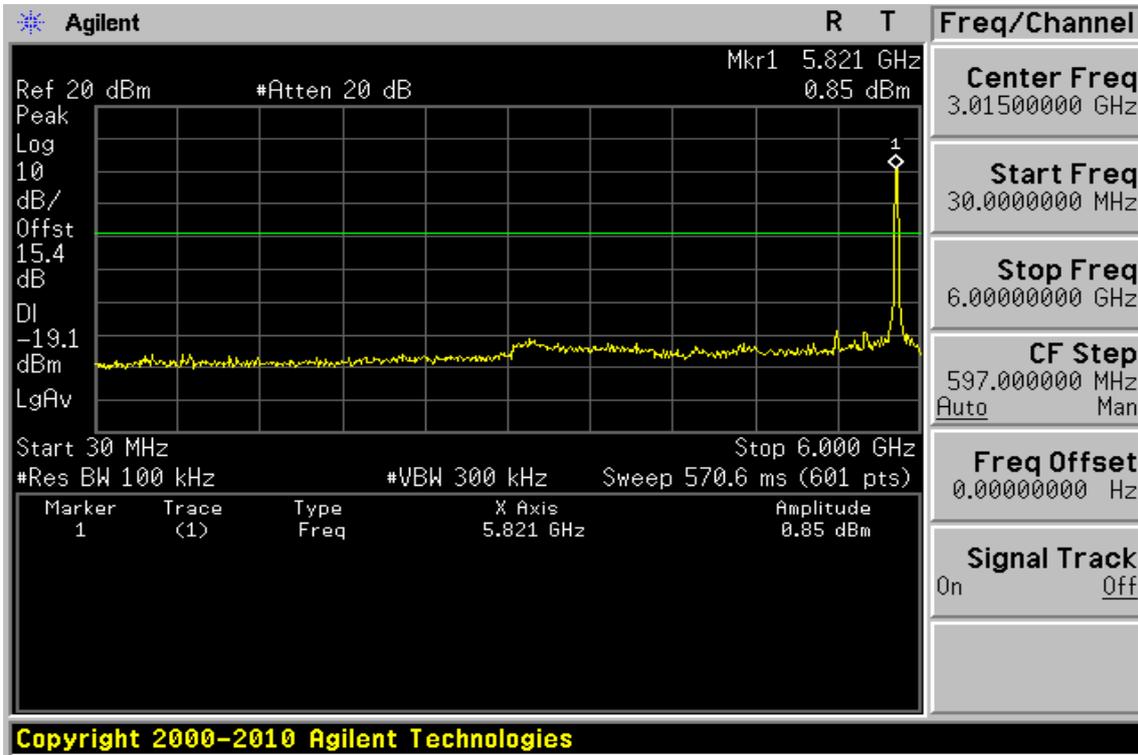
Ch Mid 18GHz – 40GHz



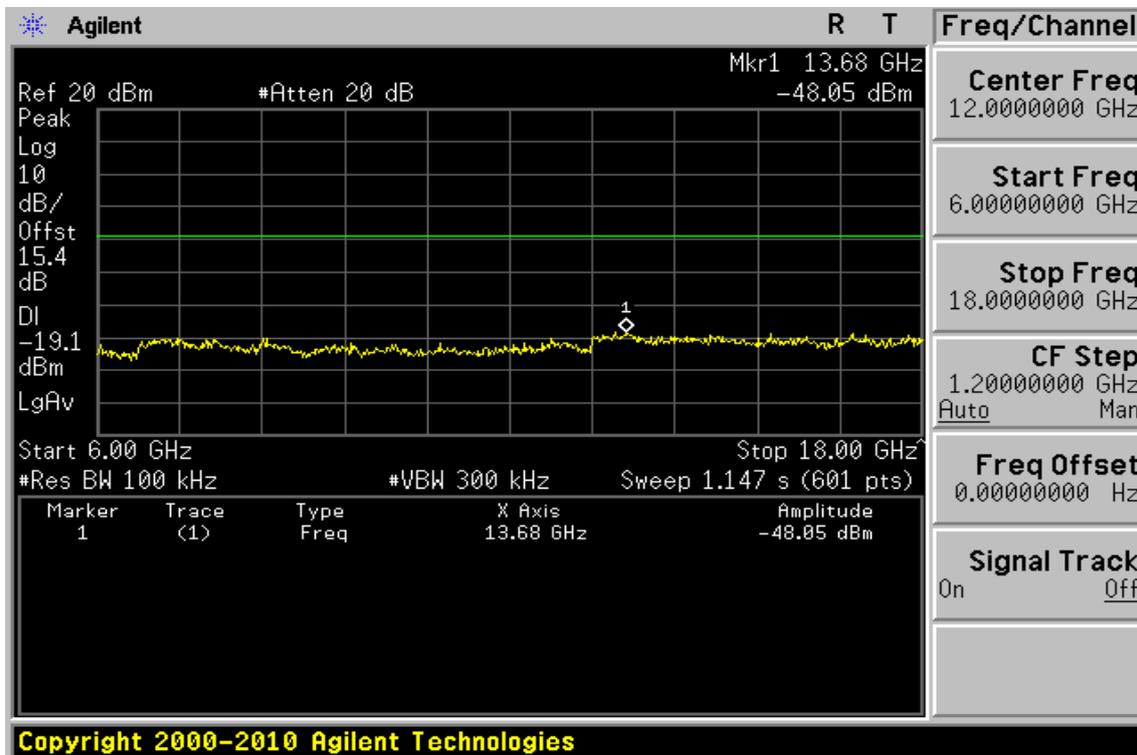
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Ch High 30MHz – 6GHz



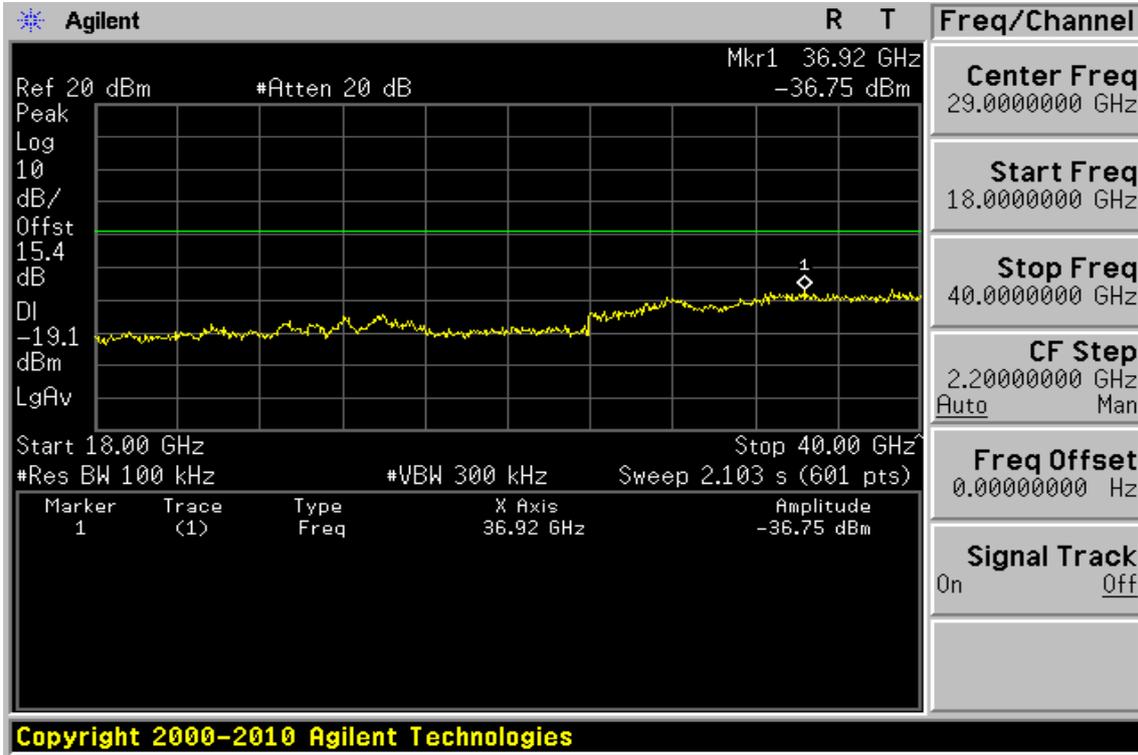
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

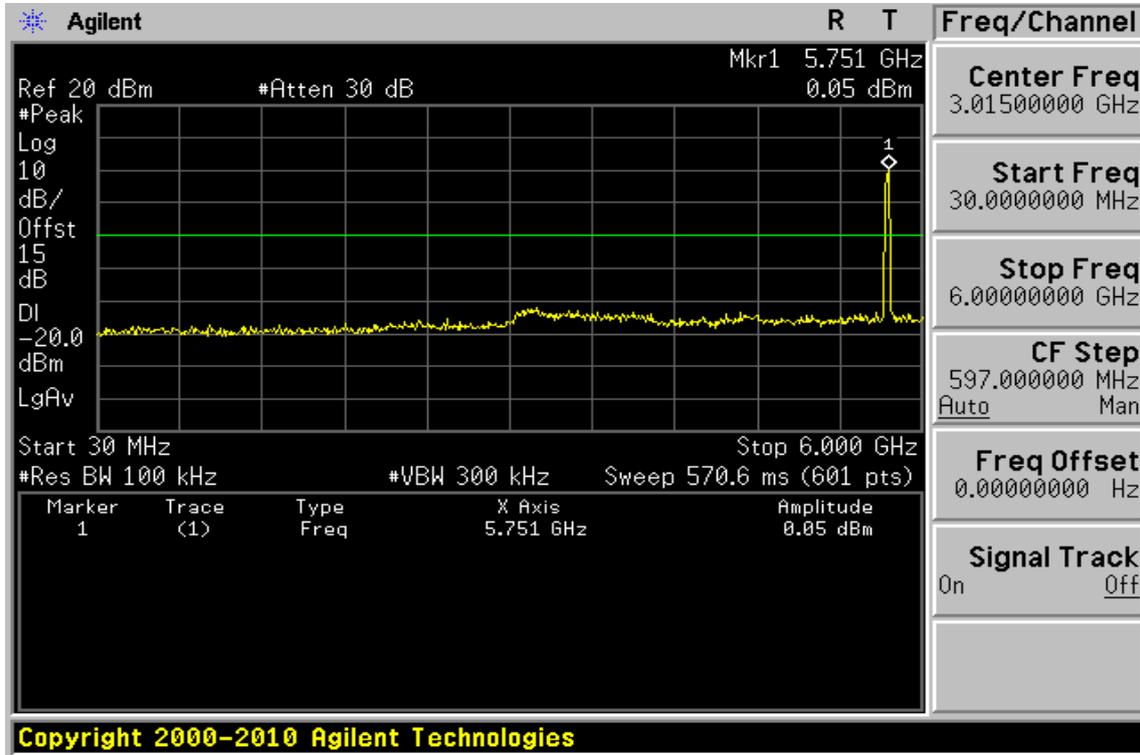


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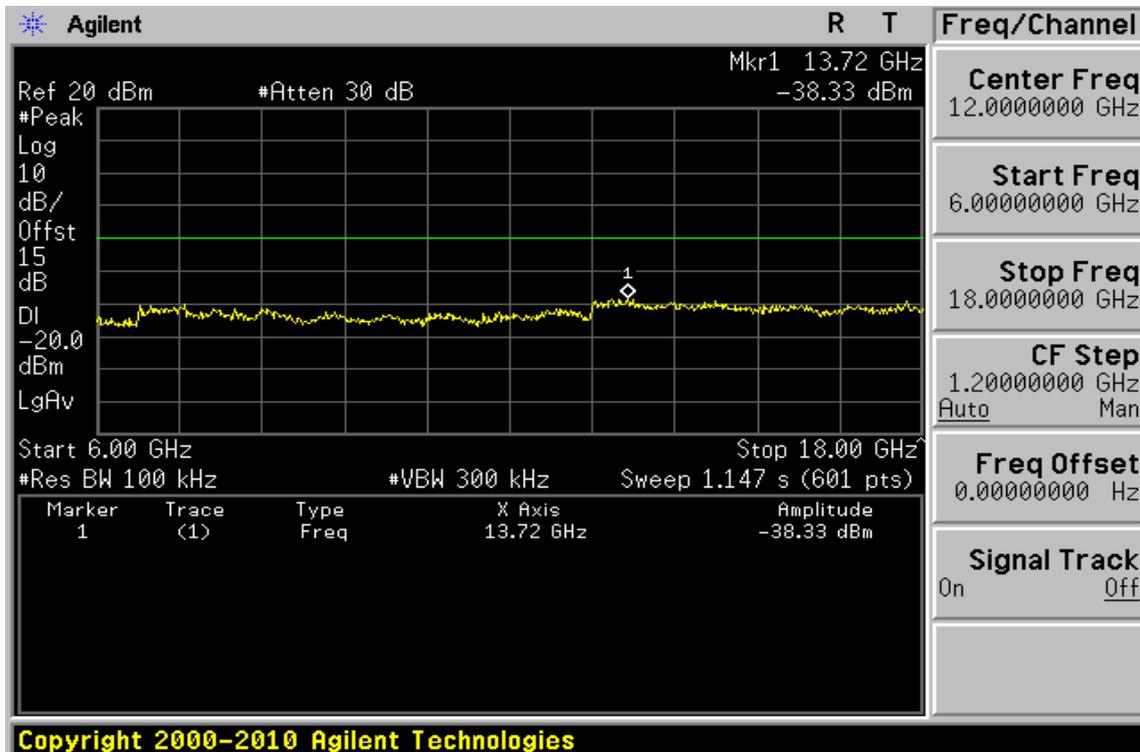
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Conducted Spurious Emission Measurement Result (802.11n (5GHz)_20M)

Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz

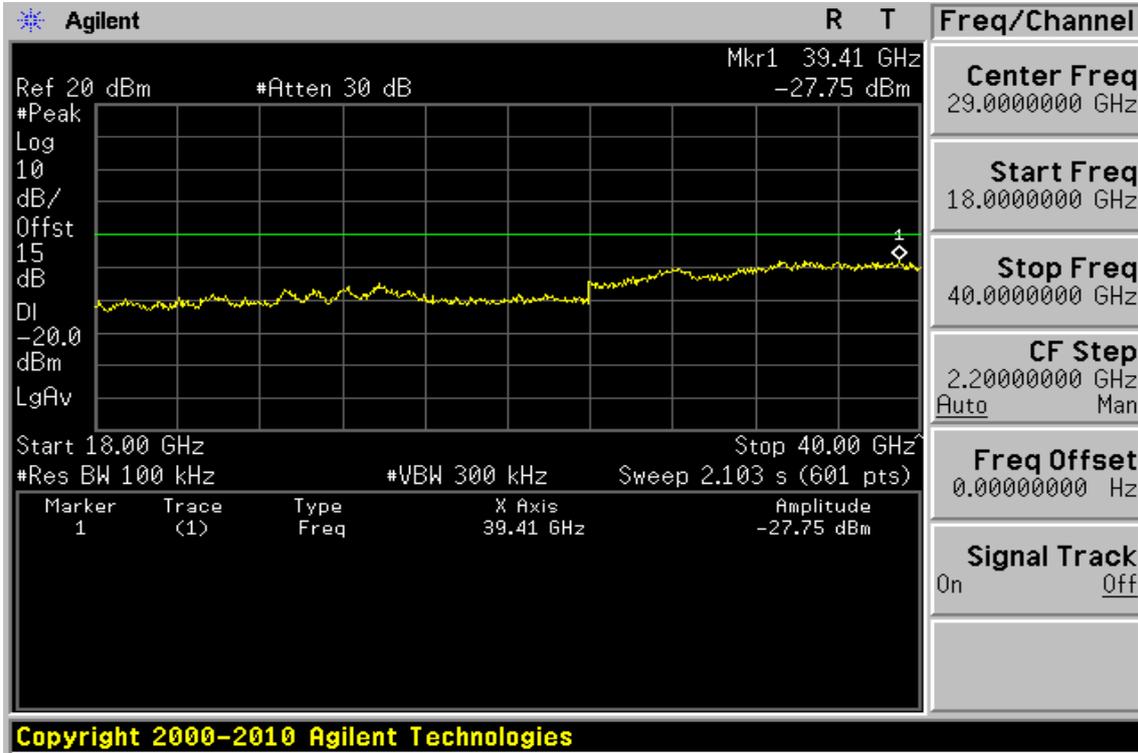


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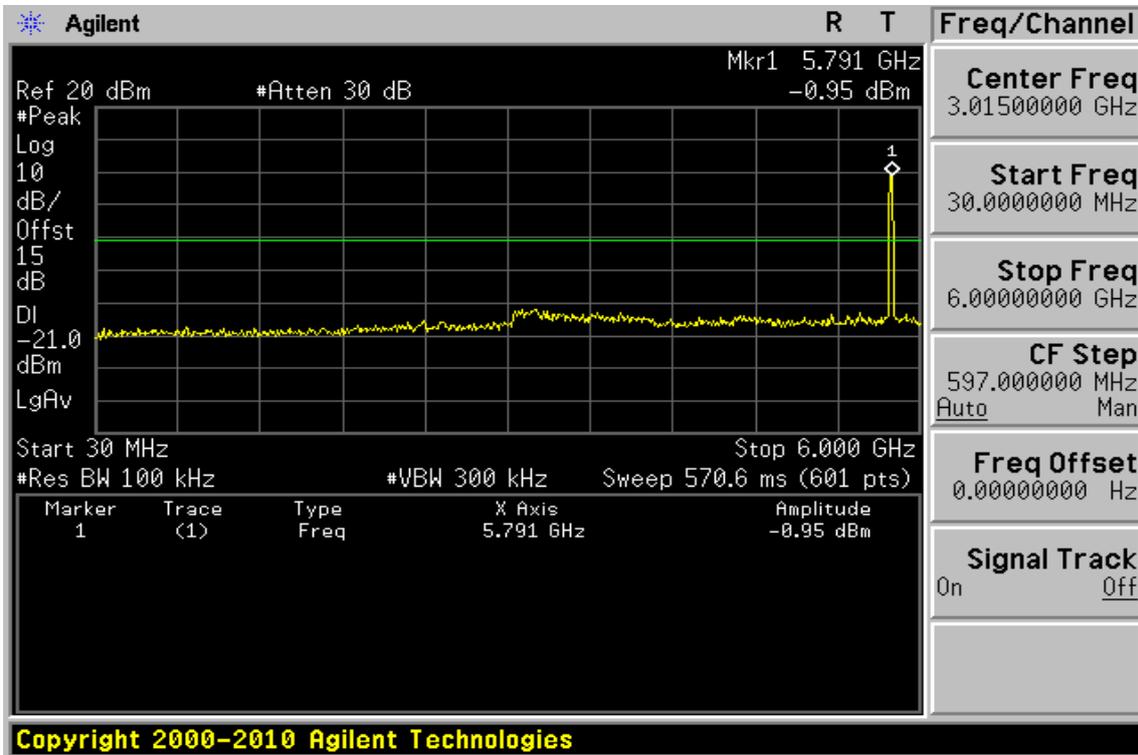
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Ch Low 18GHz – 40GHz



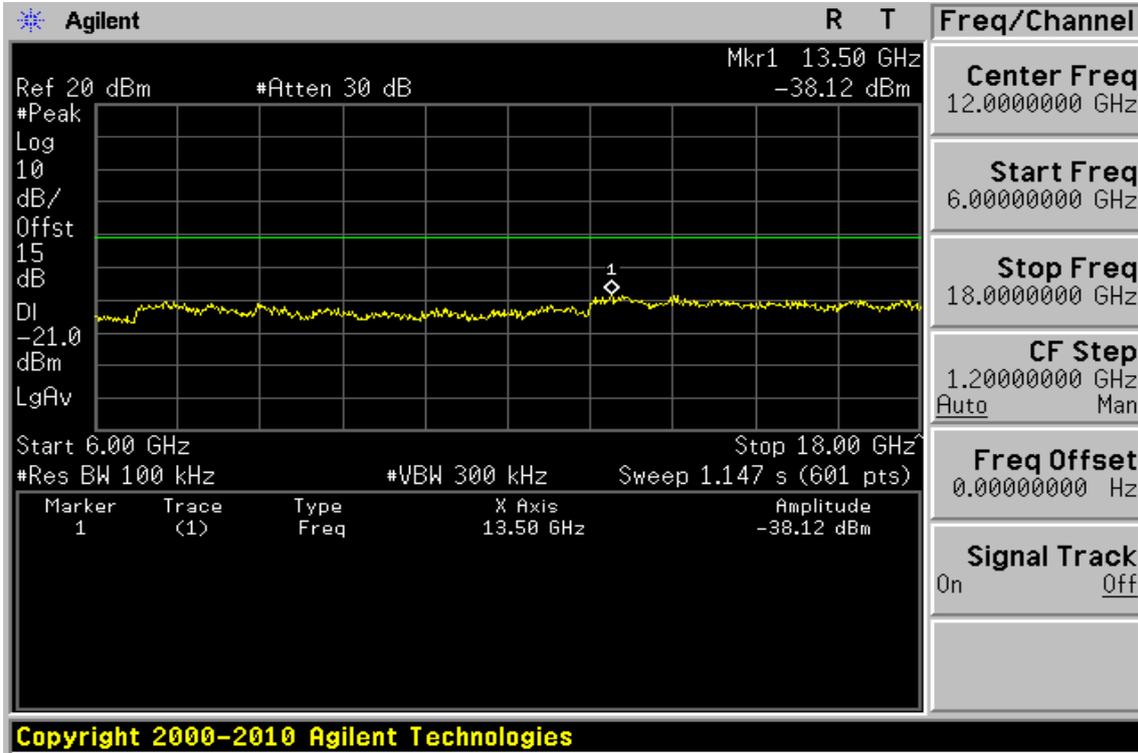
Ch Mid 30MHz – 6GHz



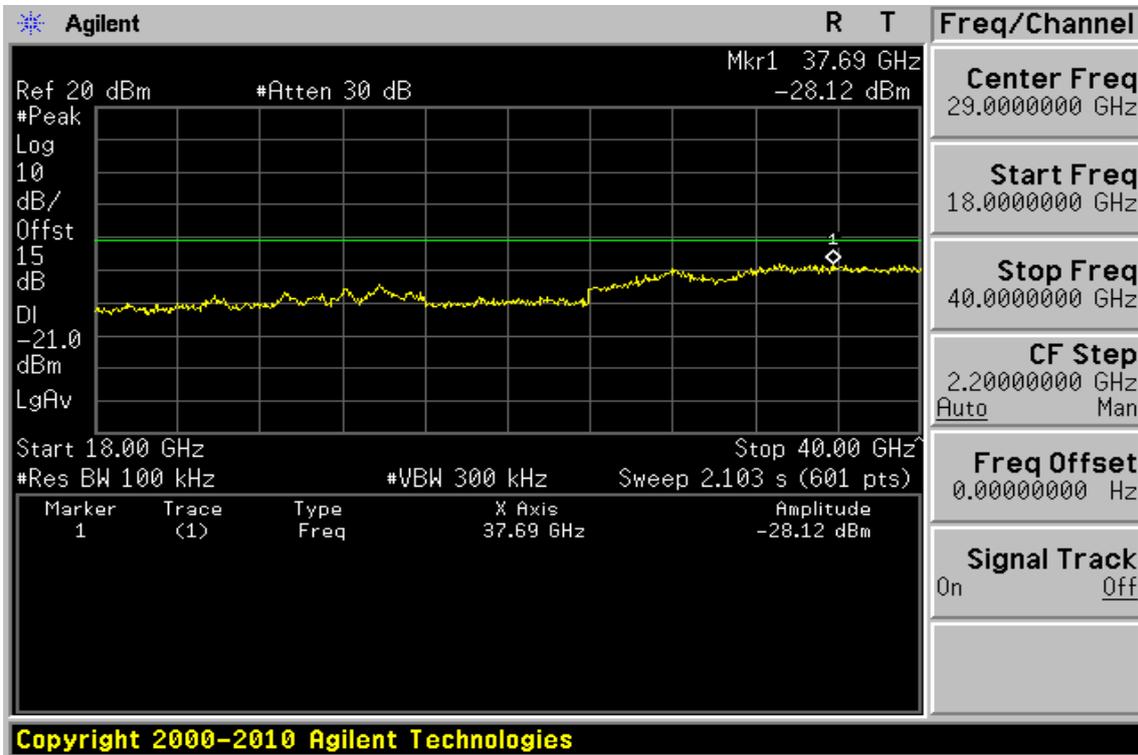
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

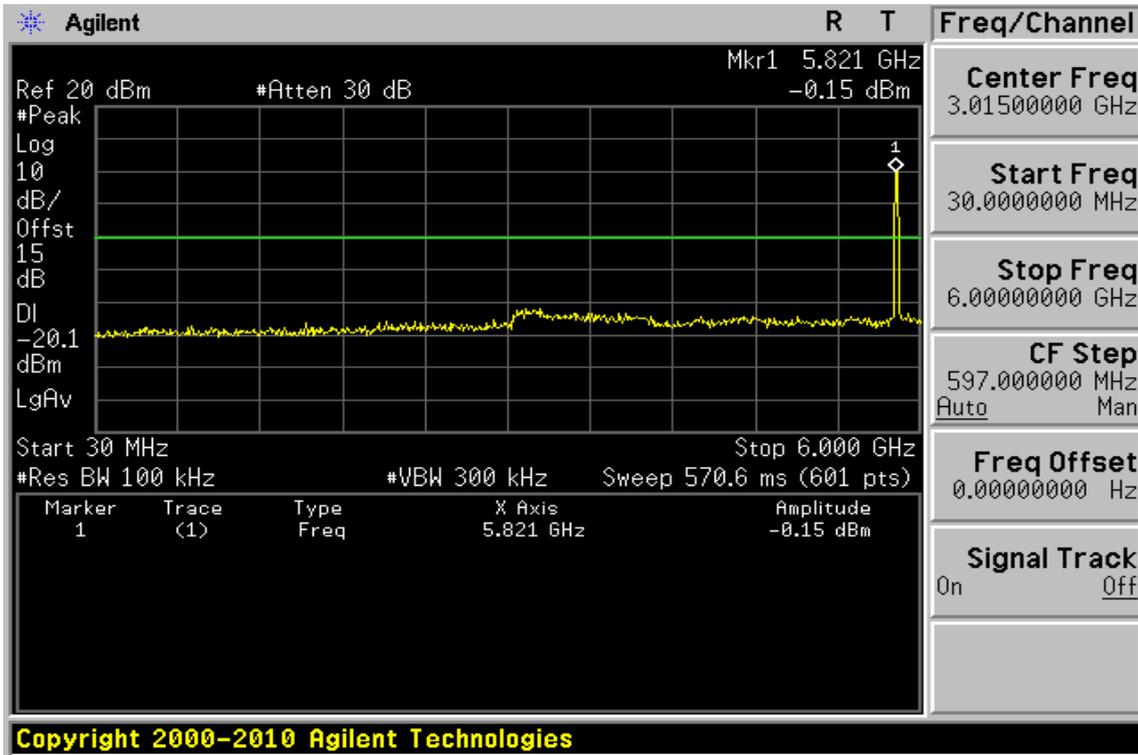


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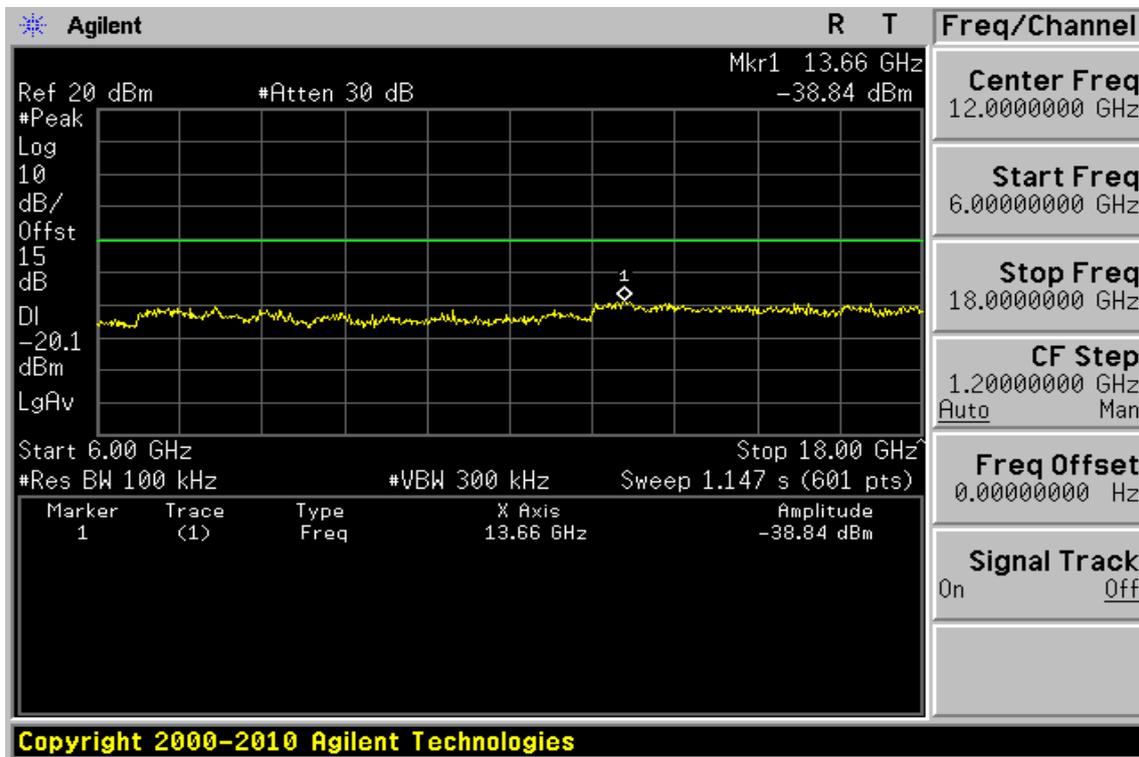
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Ch High 30MHz – 6GHz



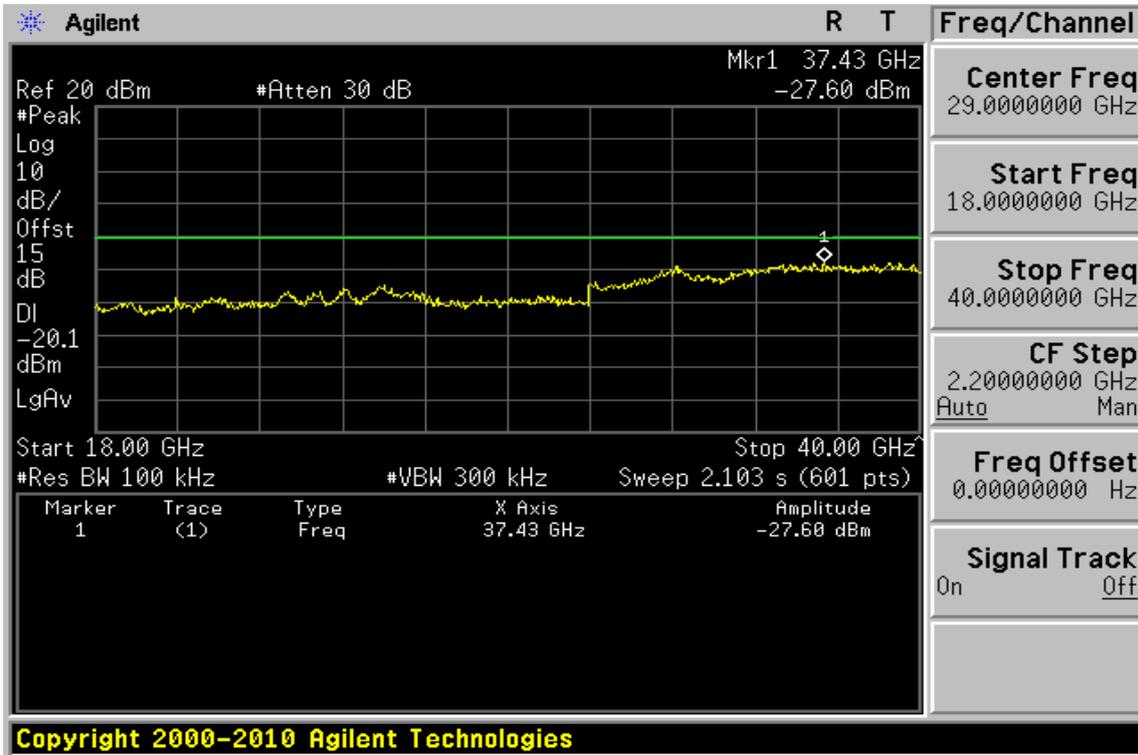
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

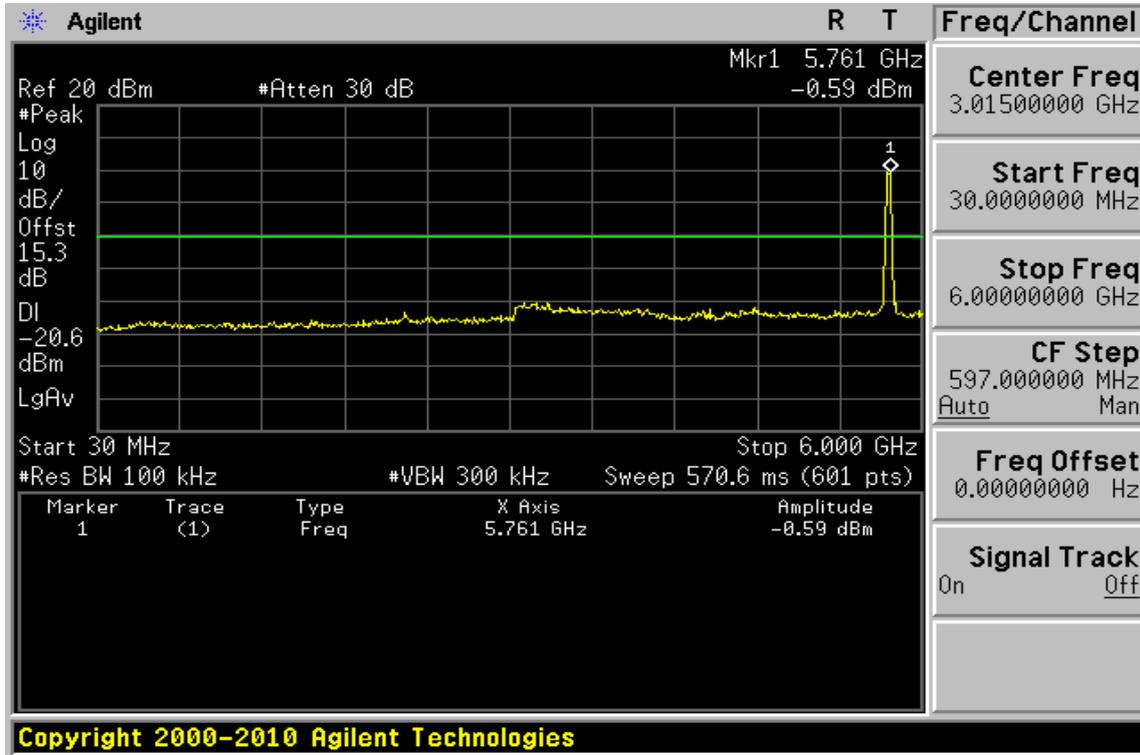


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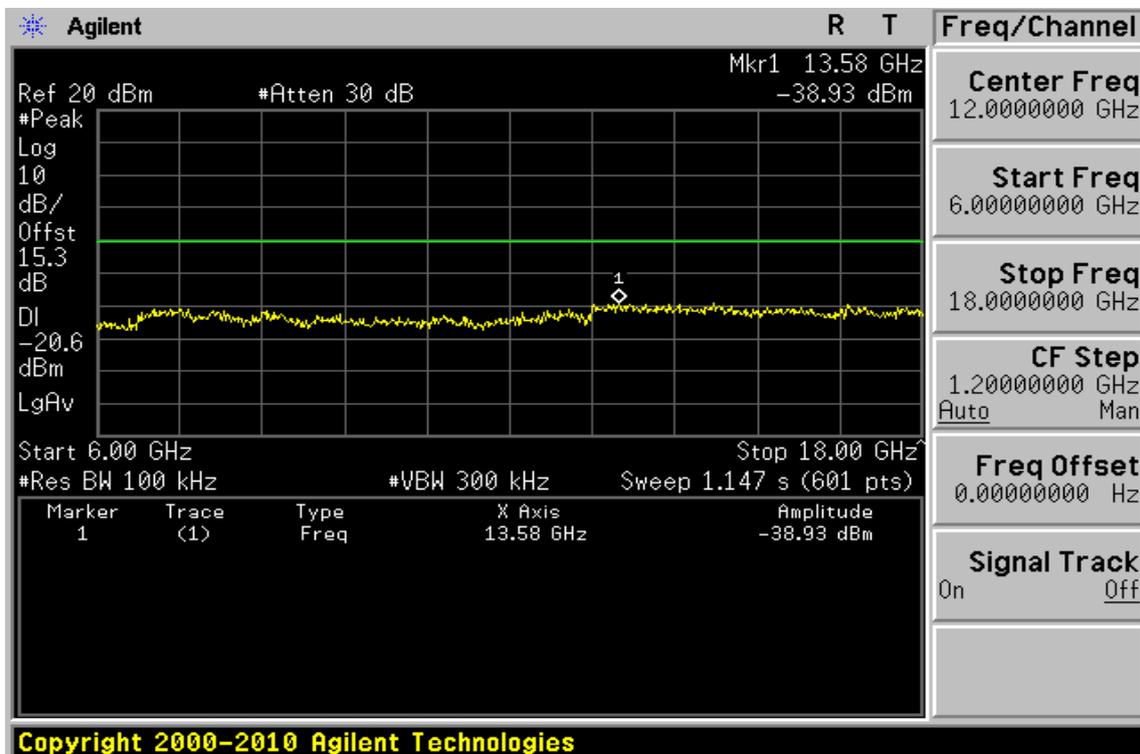
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Conducted Spurious Emission Measurement Result (802.11n (5GHz)_40M)

Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz

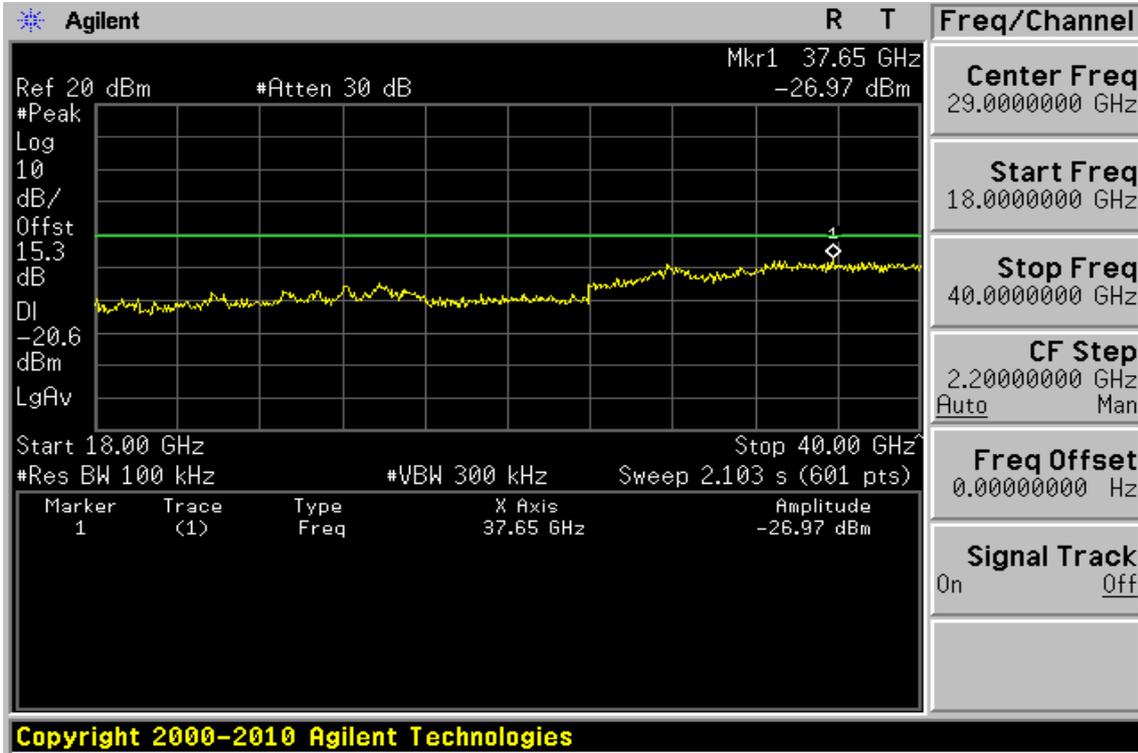


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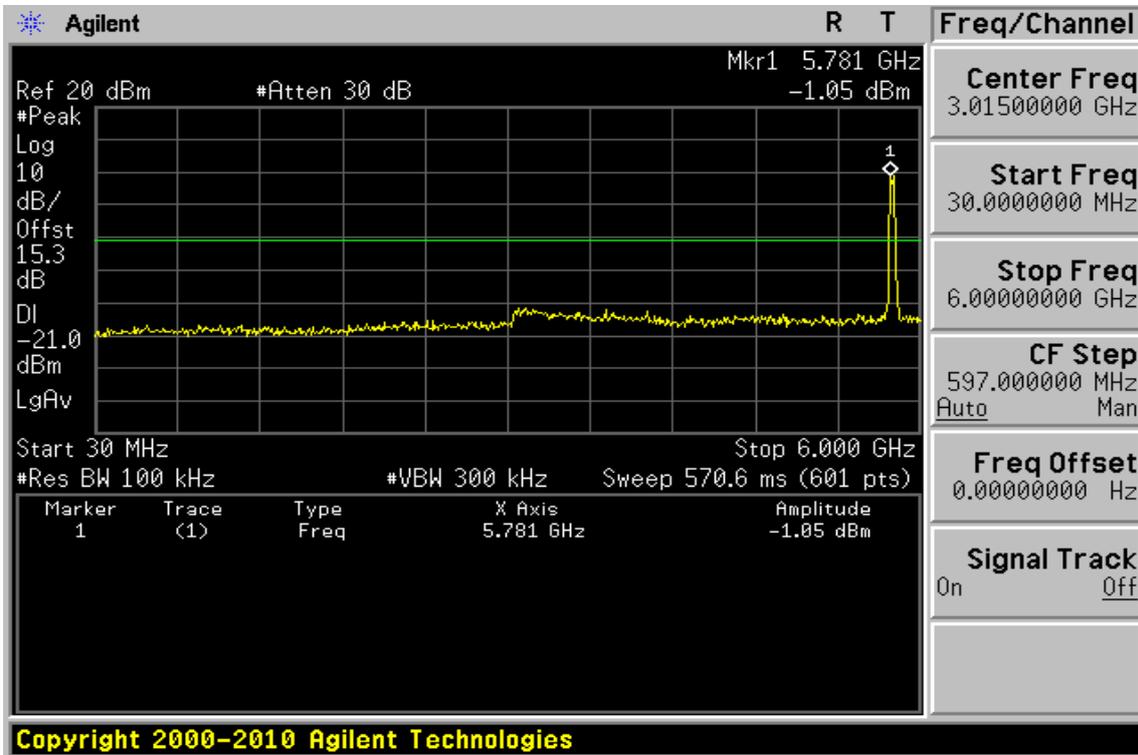
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Ch Low 18GHz – 40GHz



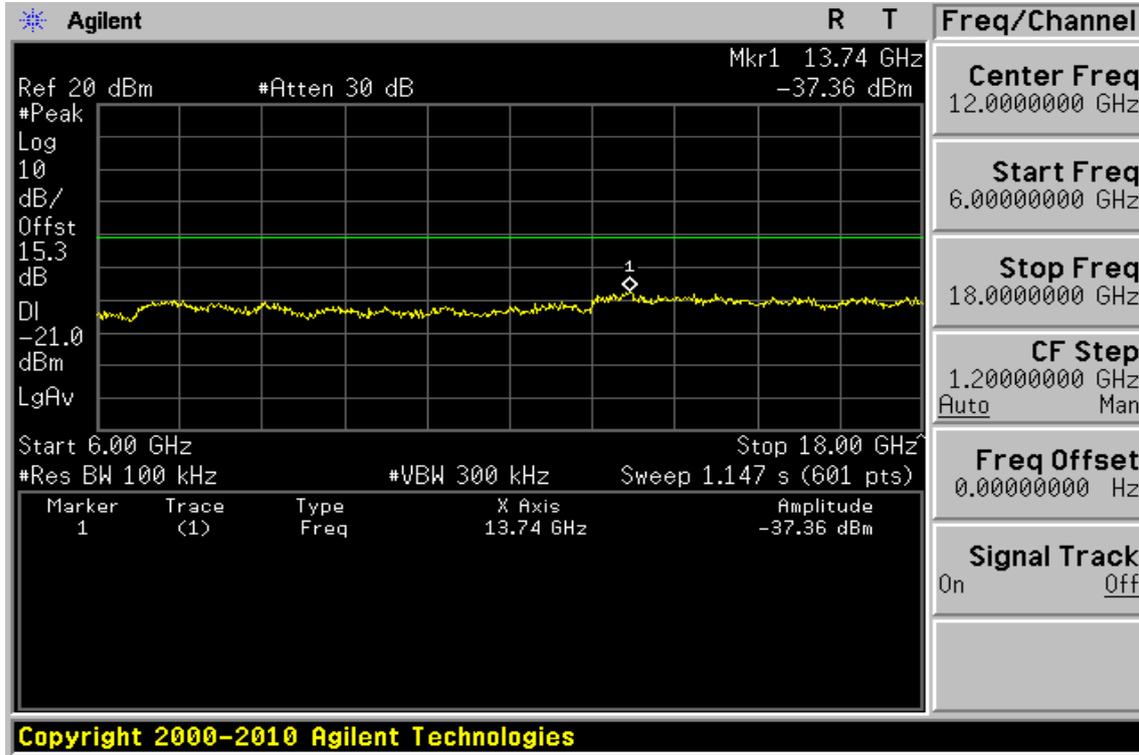
Ch High 30MHz – 6GHz



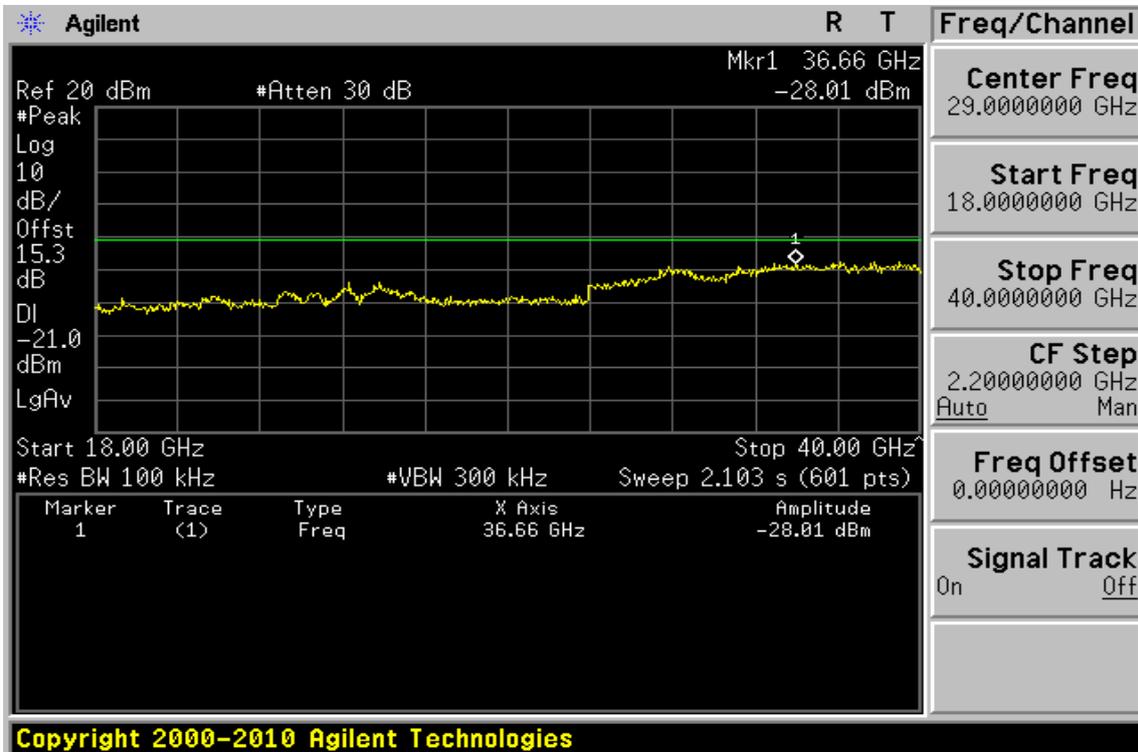
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Ch High 6GHz – 18GHz



Ch High 18GHz – 40GHz



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Radiated Spurious Emission Measurement Result (802.11b)

Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	37.59	-14.15	23.44	40.00	-16.56
272.50	S	Peak	32.30	-11.85	20.45	46.00	-25.55
290.93	S	Peak	32.42	-11.41	21.01	46.00	-24.99
468.44	S	Peak	30.47	-7.90	22.57	46.00	-23.43
694.45	S	Peak	28.54	-3.86	24.68	46.00	-21.32
924.34	S	Peak	27.76	-0.21	27.55	46.00	-18.45
4824.00	H	Average	29.57	6.89	36.46	54.00	-17.54
4824.00	H	Peak	38.58	6.89	45.47	74.00	-28.53
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

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
62.98	S	Peak	39.35	-14.15	25.20	40.00	-14.80
166.77	S	Peak	37.77	-12.83	24.94	43.50	-18.56
290.93	S	Peak	32.64	-11.41	21.23	46.00	-24.77
555.74	S	Peak	29.00	-6.98	22.02	46.00	-23.98
686.69	S	Peak	28.20	-3.69	24.51	46.00	-21.49
897.18	S	Peak	28.18	-0.98	27.20	46.00	-18.80
4824.00	H	Average	29.65	6.89	36.54	54.00	-17.46
4824.00	H	Peak	38.68	6.89	45.57	74.00	-28.43
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	38.95	-14.15	24.80	40.00	-15.20
272.50	S	Peak	32.16	-11.85	20.31	46.00	-25.69
290.93	S	Peak	31.86	-11.41	20.45	46.00	-25.55
468.44	S	Peak	31.04	-7.90	23.14	46.00	-22.86
687.66	S	Peak	28.64	-3.69	24.95	46.00	-21.05
948.59	S	Peak	27.63	0.16	27.79	46.00	-18.21
4874.00	H	Average	30.13	6.96	37.09	54.00	-16.91
4874.00	H	Peak	39.16	6.96	46.12	74.00	-27.88
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	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.

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
61.04	S	Peak	39.74	-13.77	25.97	40.00	-14.03
166.77	S	Peak	37.36	-12.83	24.53	43.50	-18.97
387.93	S	Peak	31.83	-9.43	22.40	46.00	-23.60
469.41	S	Peak	30.03	-7.89	22.14	46.00	-23.86
677.96	S	Peak	28.13	-3.73	24.40	46.00	-21.60
956.35	S	Peak	27.99	0.20	28.19	46.00	-17.81
4874.00	H	Average	29.90	6.96	36.86	54.00	-17.14
4874.00	H	Peak	38.82	6.96	45.78	74.00	-28.22
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	37.88	-14.15	23.73	40.00	-16.27
272.50	S	Peak	32.31	-11.85	20.46	46.00	-25.54
290.93	S	Peak	32.77	-11.41	21.36	46.00	-24.64
468.44	S	Peak	31.11	-7.90	23.21	46.00	-22.79
676.02	S	Peak	28.03	-3.81	24.22	46.00	-21.78
925.31	S	Peak	27.73	-0.20	27.53	46.00	-18.47
4924.00	H	Average	31.83	7.01	38.84	54.00	-15.16
4924.00	H	Peak	39.30	7.01	46.31	74.00	-27.69
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11 b	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

“---” : denotes Noise Floor.

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
62.98	S	Peak	39.82	-14.15	25.67	40.00	-14.33
166.77	S	Peak	38.10	-12.83	25.27	43.50	-18.23
395.69	S	Peak	30.86	-9.27	21.59	46.00	-24.41
554.77	S	Peak	29.28	-7.05	22.23	46.00	-23.77
688.63	S	Peak	28.54	-3.70	24.84	46.00	-21.16
951.50	S	Peak	28.16	0.18	28.34	46.00	-17.66
4924.00	H	Average	34.26	7.01	41.27	54.00	-12.73
4924.00	H	Peak	40.65	7.01	47.66	74.00	-26.34
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11g)

Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	38.92	-14.15	24.77	40.00	-15.23
258.92	S	Peak	31.64	-12.60	19.04	46.00	-26.96
290.93	S	Peak	33.52	-11.41	22.11	46.00	-23.89
468.44	S	Peak	30.68	-7.90	22.78	46.00	-23.22
682.81	S	Peak	28.69	-3.67	25.02	46.00	-20.98
944.71	S	Peak	27.20	0.12	27.32	46.00	-18.68
4824.00	H	Average	24.84	6.89	31.73	54.00	-22.27
4824.00	H	Peak	37.46	6.89	44.35	74.00	-29.65
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

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
62.98	S	Peak	39.90	-14.15	25.75	40.00	-14.25
166.77	S	Peak	36.89	-12.83	24.06	43.50	-19.44
389.87	S	Peak	32.68	-9.39	23.29	46.00	-22.71
497.54	S	Peak	29.20	-7.56	21.64	46.00	-24.36
676.02	S	Peak	28.50	-3.81	24.69	46.00	-21.31
899.12	S	Peak	28.56	-0.89	27.67	46.00	-18.33
4824.00	H	Average	24.71	6.89	31.60	54.00	-22.40
4824.00	H	Peak	37.35	6.89	44.24	74.00	-29.76
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	39.01	-14.15	24.86	40.00	-15.14
257.95	S	Peak	31.48	-12.64	18.84	46.00	-27.16
290.93	S	Peak	33.68	-11.41	22.27	46.00	-23.73
468.44	S	Peak	30.50	-7.90	22.60	46.00	-23.40
672.14	S	Peak	27.96	-3.95	24.01	46.00	-21.99
986.42	S	Peak	27.40	0.05	27.45	54.00	-26.55
4874.00	H	Average	25.20	6.96	32.16	54.00	-21.84
4874.00	H	Peak	37.90	6.96	44.86	74.00	-29.14
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	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.

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
62.98	S	Peak	40.68	-14.15	26.53	40.00	-13.47
166.77	S	Peak	35.91	-12.83	23.08	43.50	-20.42
290.93	S	Peak	33.64	-11.41	22.23	46.00	-23.77
515.00	S	Peak	28.74	-7.43	21.31	46.00	-24.69
681.84	S	Peak	28.25	-3.66	24.59	46.00	-21.41
779.81	S	Peak	30.63	-2.80	27.83	46.00	-18.17
4874.00	H	Average	25.14	6.96	32.10	54.00	-21.90
4874.00	H	Peak	38.53	6.96	45.49	74.00	-28.51
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	37.43	-14.15	23.28	40.00	-16.72
272.50	S	Peak	31.75	-11.85	19.90	46.00	-26.10
290.93	S	Peak	33.79	-11.41	22.38	46.00	-23.62
468.44	S	Peak	30.87	-7.90	22.97	46.00	-23.03
676.02	S	Peak	28.82	-3.81	25.01	46.00	-20.99
949.56	S	Peak	27.15	0.18	27.33	46.00	-18.67
4924.00	H	Average	24.02	7.01	31.03	54.00	-22.97
4924.00	H	Peak	38.41	7.01	45.42	74.00	-28.58
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11 g	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

“---” : denotes Noise Floor.

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
62.98	S	Peak	39.27	-14.15	25.12	40.00	-14.88
166.77	S	Peak	35.32	-12.83	22.49	43.50	-21.01
290.93	S	Peak	33.37	-11.41	21.96	46.00	-24.04
515.97	S	Peak	28.88	-7.44	21.44	46.00	-24.56
681.84	S	Peak	27.86	-3.66	24.20	46.00	-21.80
903.97	S	Peak	28.42	-0.71	27.71	46.00	-18.29
4924.00	H	Average	23.83	7.01	30.84	54.00	-23.16
4924.00	H	Peak	37.74	7.01	44.75	74.00	-29.25
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11n_20M)

Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	37.32	-14.15	23.17	40.00	-16.83
257.95	S	Peak	32.53	-12.64	19.89	46.00	-26.11
290.93	S	Peak	33.46	-11.41	22.05	46.00	-23.95
468.44	S	Peak	30.30	-7.90	22.40	46.00	-23.60
691.54	S	Peak	28.18	-3.76	24.42	46.00	-21.58
937.92	S	Peak	27.36	0.01	27.37	46.00	-18.63
4824.00	H	Average	24.93	6.89	31.82	54.00	-22.18
4824.00	H	Peak	37.36	6.89	44.25	74.00	-29.75
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2412 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

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
62.98	S	Peak	38.44	-14.15	24.29	40.00	-15.71
166.77	S	Peak	38.48	-12.83	25.65	43.50	-17.85
386.96	S	Peak	32.08	-9.44	22.64	46.00	-23.36
556.71	S	Peak	28.52	-6.91	21.61	46.00	-24.39
663.41	S	Peak	28.88	-4.21	24.67	46.00	-21.33
958.29	S	Peak	27.56	0.21	27.77	46.00	-18.23
4824.00	H	Average	24.78	6.89	31.67	54.00	-22.33
4824.00	H	Peak	37.07	6.89	43.96	74.00	-30.04
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	37.22	-14.15	23.07	40.00	-16.93
252.13	S	Peak	32.86	-12.88	19.98	46.00	-26.02
290.93	S	Peak	33.88	-11.41	22.47	46.00	-23.53
468.44	S	Peak	30.34	-7.90	22.44	46.00	-23.56
677.96	S	Peak	28.26	-3.73	24.53	46.00	-21.47
952.47	S	Peak	27.29	0.18	27.47	46.00	-18.53
4874.00	H	Average	25.09	6.96	32.05	54.00	-21.95
4874.00	H	Peak	37.34	6.96	44.30	74.00	-29.70
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2437 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX MID	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.

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
62.98	S	Peak	39.29	-14.15	25.14	40.00	-14.86
165.80	S	Peak	38.54	-12.81	25.73	43.50	-17.77
290.93	S	Peak	33.79	-11.41	22.38	46.00	-23.62
497.54	S	Peak	29.47	-7.56	21.91	46.00	-24.09
680.87	S	Peak	27.70	-3.66	24.04	46.00	-21.96
948.59	S	Peak	27.66	0.16	27.82	46.00	-18.18
4874.00	H	Average	25.07	6.96	32.03	54.00	-21.97
4874.00	H	Peak	36.78	6.96	43.74	74.00	-30.26
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

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.

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
62.98	S	Peak	38.41	-14.15	24.26	40.00	-15.74
272.50	S	Peak	31.32	-11.85	19.47	46.00	-26.53
290.93	S	Peak	34.42	-11.41	23.01	46.00	-22.99
468.44	S	Peak	30.03	-7.90	22.13	46.00	-23.87
682.81	S	Peak	28.84	-3.67	25.17	46.00	-20.83
958.29	S	Peak	27.31	0.21	27.52	46.00	-18.48
4924.00	H	Average	23.81	7.01	30.82	54.00	-23.18
4924.00	H	Peak	37.46	7.01	44.47	74.00	-29.53
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11 n20M MIMO	Test Date	:2014-03-18
Fundamental Frequency	:2462 MHz	Temp./Humi.	:20.3deg_C /58 RH
Operation Mode	:TX 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.

“---” : denotes Noise Floor.

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
62.98	S	Peak	39.52	-14.15	25.37	40.00	-14.63
165.80	S	Peak	38.73	-12.81	25.92	43.50	-17.58
290.93	S	Peak	34.76	-11.41	23.35	46.00	-22.65
478.14	S	Peak	29.68	-7.77	21.91	46.00	-24.09
680.87	S	Peak	28.77	-3.66	25.11	46.00	-20.89
779.81	S	Peak	30.49	-2.80	27.69	46.00	-18.31
4924.00	H	Average	23.78	7.01	30.79	54.00	-23.21
4924.00	H	Peak	37.96	7.01	44.97	74.00	-29.03
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11a)

Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
110.51	S	Peak	32.02	-15.42	16.60	43.50	-26.90
343.31	S	Peak	27.88	-11.53	16.35	46.00	-29.65
548.95	S	Peak	27.35	-7.87	19.48	46.00	-26.52
676.99	S	Peak	28.48	-5.16	23.32	46.00	-22.68
755.56	S	Peak	28.62	-4.13	24.49	46.00	-21.51
910.76	S	Peak	27.42	-2.29	25.13	46.00	-20.87
11490.00	H	Average	22.03	17.78	39.81	54.00	-14.19
11490.00	H	Peak	19.26	17.78	37.04	74.00	-36.96
16425.00	H	---					
21900.00	H	---					
27375.00	H	---					
32850.00	H	---					
38325.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
112.45	S	Peak	30.49	-15.18	15.31	43.50	-28.19
286.08	S	Peak	27.19	-12.66	14.53	46.00	-31.47
508.21	S	Peak	27.89	-8.79	19.10	46.00	-26.90
651.77	S	Peak	27.64	-5.59	22.05	46.00	-23.95
812.79	S	Peak	28.72	-3.61	25.11	46.00	-20.89
944.71	S	Peak	27.41	-1.82	25.59	46.00	-20.41
11490.00	H	Average	21.72	17.78	39.50	54.00	-14.50
11490.00	H	Peak	18.98	17.78	36.76	74.00	-37.24
16425.00	H	---					
21900.00	H	---					
27375.00	H	---					
32850.00	H	---					
38325.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
110.51	S	Peak	33.31	-15.42	17.89	43.50	-25.61
345.25	S	Peak	27.55	-11.51	16.04	46.00	-29.96
515.00	S	Peak	28.79	-8.63	20.16	46.00	-25.84
653.71	S	Peak	28.29	-5.55	22.74	46.00	-23.26
768.17	S	Peak	27.81	-3.98	23.83	46.00	-22.17
938.89	S	Peak	26.62	-1.88	24.74	46.00	-21.26
11570.00	H	Average	22.37	17.84	40.21	54.00	-13.79
11570.00	H	Peak	25.99	17.84	43.83	74.00	-30.17
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
118.27	S	Peak	29.62	-14.46	15.16	43.50	-28.34
296.75	S	Peak	27.44	-12.36	15.08	46.00	-30.92
513.06	S	Peak	28.53	-8.67	19.86	46.00	-26.14
669.23	S	Peak	27.97	-5.30	22.67	46.00	-23.33
816.67	S	Peak	28.02	-3.59	24.43	46.00	-21.57
946.65	S	Peak	27.07	-1.79	25.28	46.00	-20.72
11570.00	H	Average	21.85	17.64	39.49	54.00	-14.51
11570.00	H	Peak	25.24	17.64	42.88	74.00	-31.12
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5825 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
82.38	S	Peak	33.47	-17.62	15.85	40.00	-24.15
338.46	S	Peak	28.17	-11.59	16.58	46.00	-29.42
542.16	S	Peak	28.08	-8.01	20.07	46.00	-25.93
651.77	S	Peak	28.47	-5.59	22.88	46.00	-23.12
771.08	S	Peak	28.20	-3.96	24.24	46.00	-21.76
946.65	S	Peak	27.42	-1.79	25.63	46.00	-20.37
11650.00	H	Average	22.34	18.00	40.34	54.00	-13.66
11650.00	H	Peak	25.50	18.00	43.50	74.00	-30.50
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-08-28
Fundamental Frequency	:5825 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
117.30	S	Peak	30.63	-14.57	16.06	43.50	-27.44
310.33	S	Peak	26.56	-12.05	14.51	46.00	-31.49
506.27	S	Peak	28.54	-8.83	19.71	46.00	-26.29
669.23	S	Peak	27.75	-5.30	22.45	46.00	-23.55
822.49	S	Peak	29.08	-3.53	25.55	46.00	-20.45
942.77	S	Peak	26.86	-1.84	25.02	46.00	-20.98
11650.00	H	Average	21.75	17.80	39.55	54.00	-14.45
11650.00	H	Peak	25.81	17.80	43.61	74.00	-30.39
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11n (5GHz)_20M)

Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
110.51	S	Peak	31.56	-15.42	16.14	43.50	-27.36
346.22	S	Peak	26.71	-11.51	15.20	46.00	-30.80
527.61	S	Peak	27.79	-8.33	19.46	46.00	-26.54
694.45	S	Peak	27.94	-4.91	23.03	46.00	-22.97
771.08	S	Peak	27.90	-3.96	23.94	46.00	-22.06
949.56	S	Peak	27.21	-1.76	25.45	46.00	-20.55
11490.00	H	Average	22.01	17.78	39.79	54.00	-14.21
11490.00	H	Peak	20.68	17.78	38.46	74.00	-35.54
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5745 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
120.21	S	Peak	30.52	-14.24	16.28	43.50	-27.22
251.16	S	Peak	29.46	-13.79	15.67	46.00	-30.33
514.03	S	Peak	27.12	-8.65	18.47	46.00	-27.53
609.09	S	Peak	29.60	-6.45	23.15	46.00	-22.85
836.07	S	Peak	27.68	-3.38	24.30	46.00	-21.70
945.68	S	Peak	26.68	-1.80	24.88	46.00	-21.12
11490.00	H	Average	21.63	17.78	39.41	54.00	-14.59
11490.00	H	Peak	18.97	17.78	36.75	74.00	-37.25
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
96.93	S	Peak	31.87	-16.82	15.05	43.50	-28.45
313.24	S	Peak	27.90	-12.00	15.90	46.00	-30.10
542.16	S	Peak	28.69	-8.01	20.68	46.00	-25.32
679.90	S	Peak	28.18	-5.12	23.06	46.00	-22.94
751.68	S	Peak	27.92	-4.17	23.75	46.00	-22.25
947.62	S	Peak	27.56	-1.78	25.78	46.00	-20.22
11570.00	H	Average	22.35	17.84	40.19	54.00	-13.81
11570.00	H	Peak	25.43	17.84	43.27	74.00	-30.73
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5785 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX MID	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
119.24	S	Peak	30.01	-14.34	15.67	43.50	-27.83
312.27	S	Peak	26.74	-12.01	14.73	46.00	-31.27
514.03	S	Peak	28.18	-8.65	19.53	46.00	-26.47
644.01	S	Peak	28.41	-5.72	22.69	46.00	-23.31
810.85	S	Peak	27.48	-3.64	23.84	46.00	-22.16
902.03	S	Peak	28.75	-2.44	26.31	46.00	-19.69
11570.00	H	Average	22.37	17.64	40.01	54.00	-13.99
11570.00	H	Peak	25.25	17.64	42.89	74.00	-31.11
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5825 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
111.48	S	Peak	31.53	-15.30	16.23	43.50	-27.27
343.31	S	Peak	27.11	-11.53	15.58	46.00	-30.42
477.17	S	Peak	29.33	-9.26	20.07	46.00	-25.93
691.54	S	Peak	27.79	-4.95	22.84	46.00	-23.16
775.93	S	Peak	27.58	-3.91	23.67	46.00	-22.33
924.34	S	Peak	27.17	-2.05	25.12	46.00	-20.88
11650.00	H	Average	22.33	18.00	40.33	54.00	-13.67
11650.00	H	Peak	25.74	18.00	43.74	74.00	-30.26
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-08-28
Fundamental Frequency	:5825 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
114.39	S	Peak	31.51	-14.93	16.58	43.50	-26.92
302.57	S	Peak	26.92	-12.22	14.70	46.00	-31.30
502.39	S	Peak	28.35	-8.92	19.43	46.00	-26.57
595.51	S	Peak	28.72	-6.79	21.93	46.00	-24.07
790.48	S	Peak	28.52	-3.81	24.71	46.00	-21.29
917.55	S	Peak	27.49	-2.17	25.32	46.00	-20.68
11650.00	H	Average	22.85	17.80	40.65	54.00	-13.35
11650.00	H	Peak	25.46	17.80	43.26	74.00	-30.74
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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

Operation Band	:802.11 n40M	Test Date	:2013-09-04
Fundamental Frequency	:5755 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
31.94	S	Peak	41.99	-14.15	27.84	40.00	-12.16
110.51	S	Peak	31.56	-15.42	16.14	43.50	-27.36
417.03	S	Peak	27.14	-10.31	16.83	46.00	-29.17
527.61	S	Peak	27.79	-8.33	19.46	46.00	-26.54
694.45	S	Peak	27.94	-4.91	23.03	46.00	-22.97
901.06	S	Peak	27.35	-2.47	24.88	46.00	-21.12
11510.00	H	Average	21.65	17.78	39.43	54.00	-14.57
11510.00	H	Peak	18.75	17.78	36.53	74.00	-37.47
17265.00	H	---					
23020.00	H	---					
28775.00	H	---					
34530.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-04
Fundamental Frequency	:5755 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX LOW	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
42.61	S	Peak	27.08	-13.53	13.55	40.00	-26.45
120.21	S	Peak	30.52	-14.24	16.28	43.50	-27.22
251.16	S	Peak	29.46	-13.79	15.67	46.00	-30.33
609.09	S	Peak	29.60	-6.45	23.15	46.00	-22.85
683.78	S	Peak	28.82	-5.06	23.76	46.00	-22.24
945.68	S	Peak	26.68	-1.80	24.88	46.00	-21.12
11510.00	H	Average	21.62	17.78	39.40	54.00	-14.60
11510.00	H	Peak	19.31	17.78	37.09	74.00	-36.91
17265.00	H	---					
23020.00	H	---					
28775.00	H	---					
34530.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-04
Fundamental Frequency	:5795 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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.

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
31.94	S	Peak	42.31	-14.15	28.16	40.00	-11.84
145.43	S	Peak	27.55	-12.35	15.20	43.50	-28.30
461.65	S	Peak	27.93	-9.41	18.52	46.00	-27.48
595.51	S	Peak	27.90	-6.79	21.11	46.00	-24.89
679.90	S	Peak	28.18	-5.12	23.06	46.00	-22.94
947.62	S	Peak	27.56	-1.78	25.78	46.00	-20.22
11590.00	H	Average	22.55	17.92	40.47	54.00	-13.53
11590.00	H	Peak	25.37	17.92	43.29	74.00	-30.71
17385.00	H	---					
23180.00	H	---					
28975.00	H	---					
34770.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-09-04
Fundamental Frequency	:5795 MHz	Temp./Humi.	:25.5 deg_C / 62 RH
Operation Mode	:TX HIGH	Engineer	:Allen
EUT Pol.	:H Plan	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.

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
119.24	S	Peak	30.01	-14.34	15.67	43.50	-27.83
343.31	S	Peak	27.91	-11.53	16.38	46.00	-29.62
514.03	S	Peak	28.18	-8.65	19.53	46.00	-26.47
644.01	S	Peak	28.41	-5.72	22.69	46.00	-23.31
771.08	S	Peak	27.76	-3.96	23.80	46.00	-22.20
902.03	S	Peak	28.75	-2.44	26.31	46.00	-19.69
11590.00	H	Average	22.74	17.72	40.46	54.00	-13.54
11590.00	H	Peak	25.43	17.72	43.15	74.00	-30.85
17385.00	H	---					
23180.00	H	---					
28975.00	H	---					
34770.00	H	---					

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11 PEAK POWER SPECTRAL DENSITY

11.1 Standard Applicable:

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

11.2 Measurement Equipment Used:

Refer to section 7.2 for details.

11.3 Test Set-up:

Refer to section 7.3 for details. (Spectrum Option)

11.4 Measurement Procedure (following the measurement procedure 10.2 of KDB558074):

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. 802.11n MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. . The single transmitting mode is only reported measurement that produces higher value of outcome.

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11.5 Measurement Result:

802.11b

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-9.00	8
2437	-7.97	8
2462	-8.51	8

802.11g

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-7.53	8
2437	-4.86	8
2462	-8.14	8

802.11n_20M

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-11.74	8
2437	-12.41	8
2462	-12.76	8

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802.11a

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5745	-14.13	8
5785	-13.08	8
5825	-13.94	8

802.11n (5GHz)_20M_MIMO

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5745	-11.41	8
5785	-11.54	8
5825	-12.14	8

802.11n (5GHz)_40M_MIMO

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5755	-17.81	8
5795	-17.44	8

* Note: Offset 11dB for 2.4G 802.11b/g/n_20;
 Offset 11.7dB for 5G 802.11a
 Offset 15.3dB for 5G 802.11/n_20/n_40.

*Refer to next page for plots

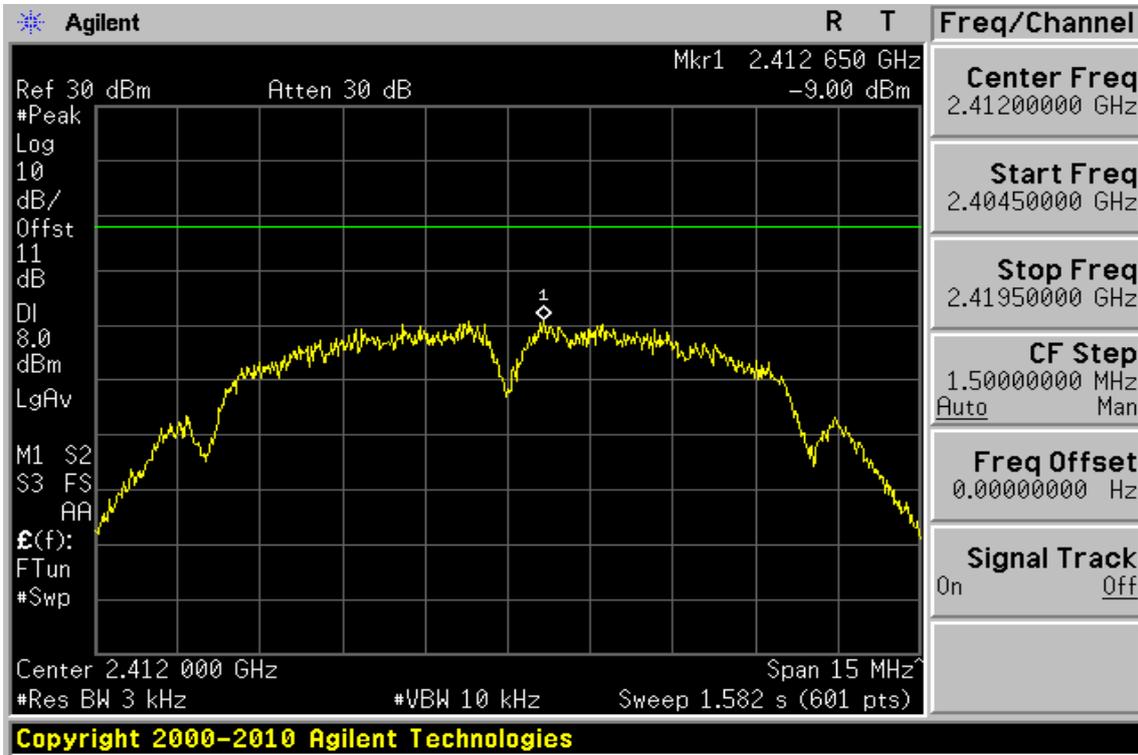
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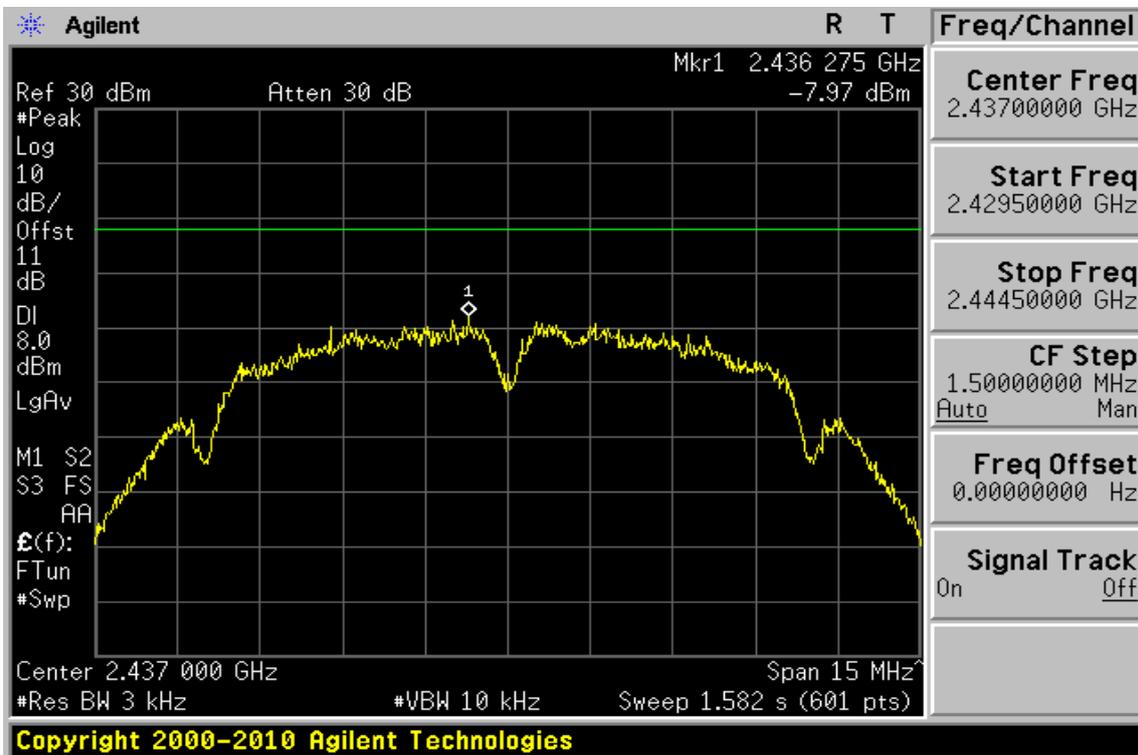
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

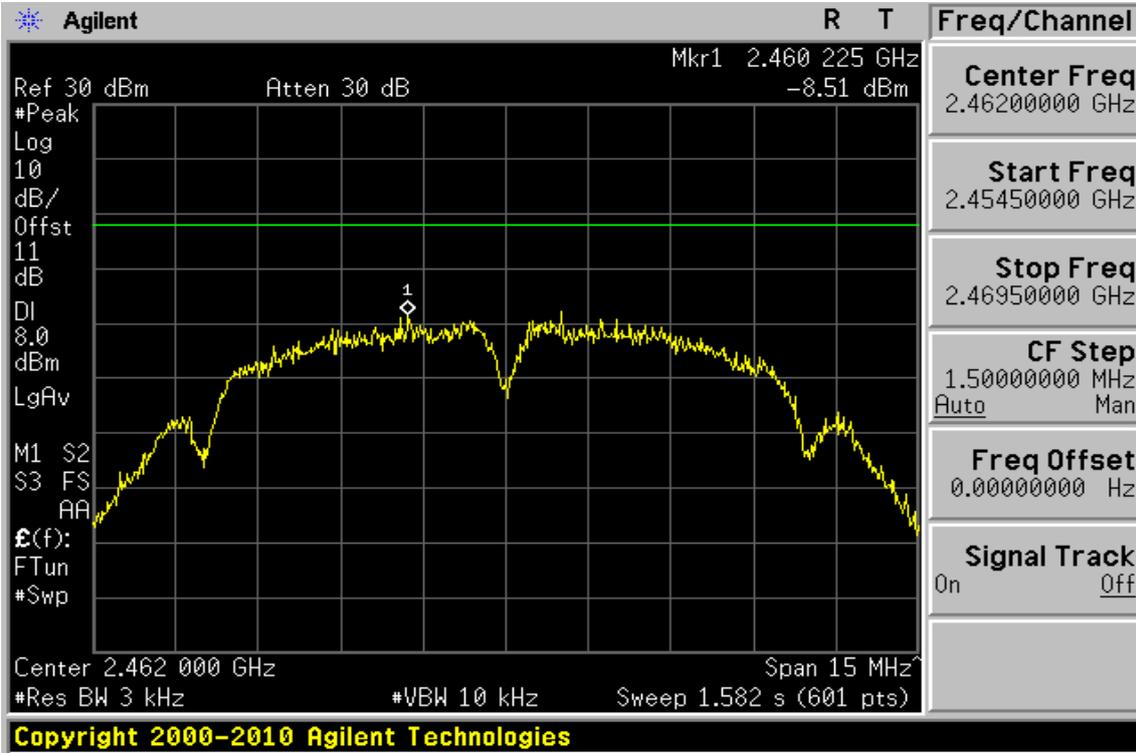


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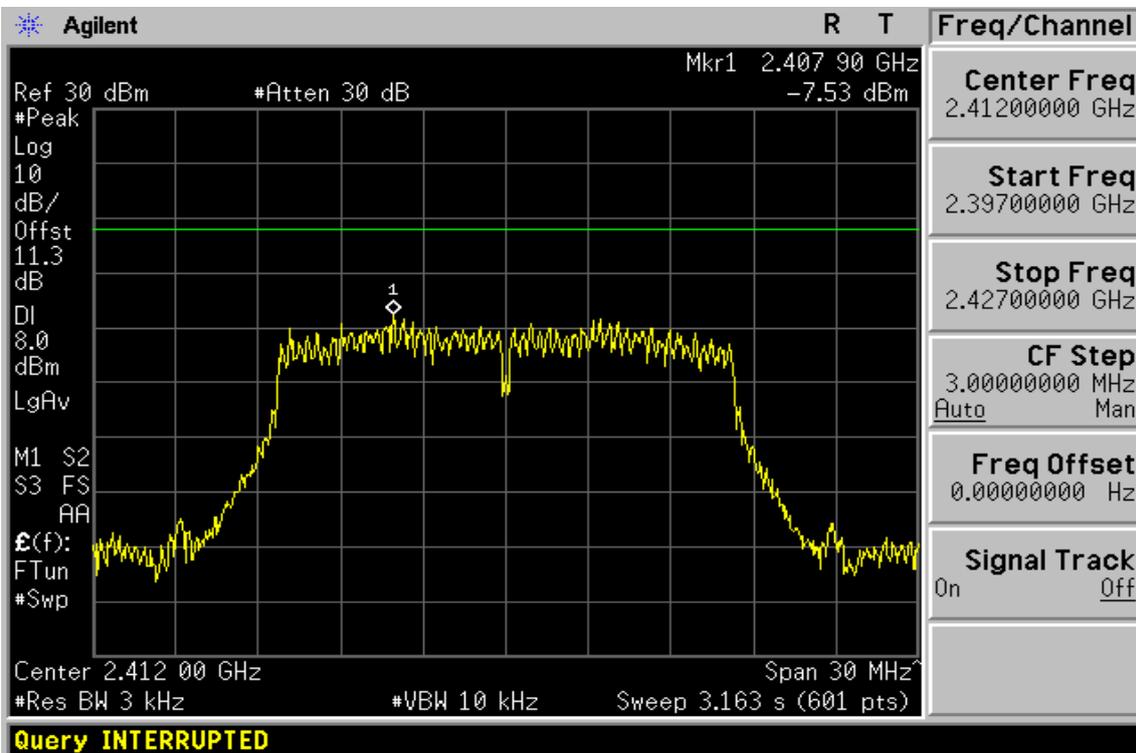
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Power Spectral Density Test Plot (CH-High)



802.11g

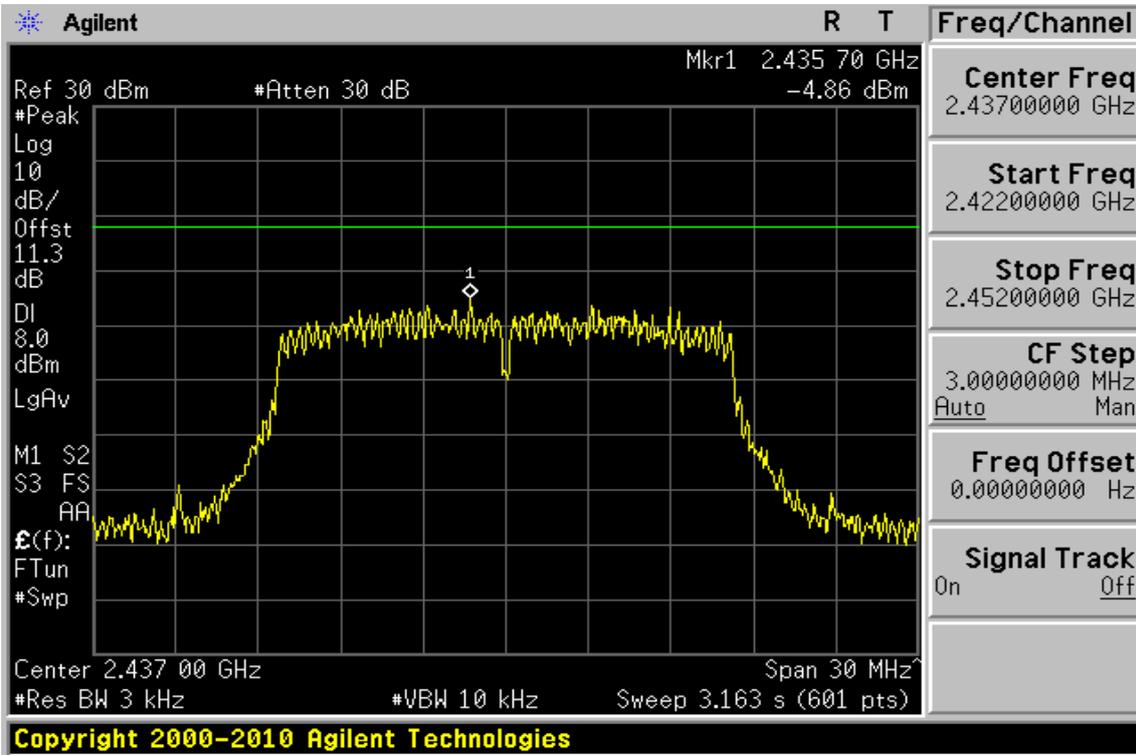
Power Spectral Density Test Plot (CH-Low)



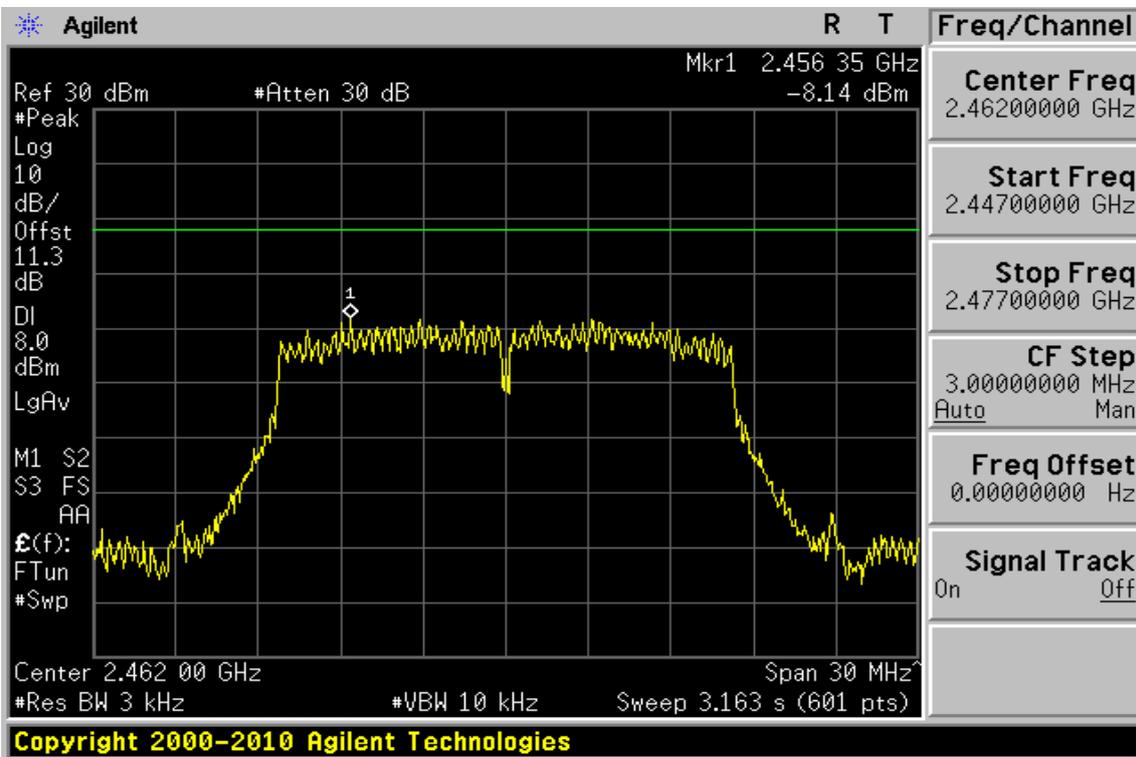
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)

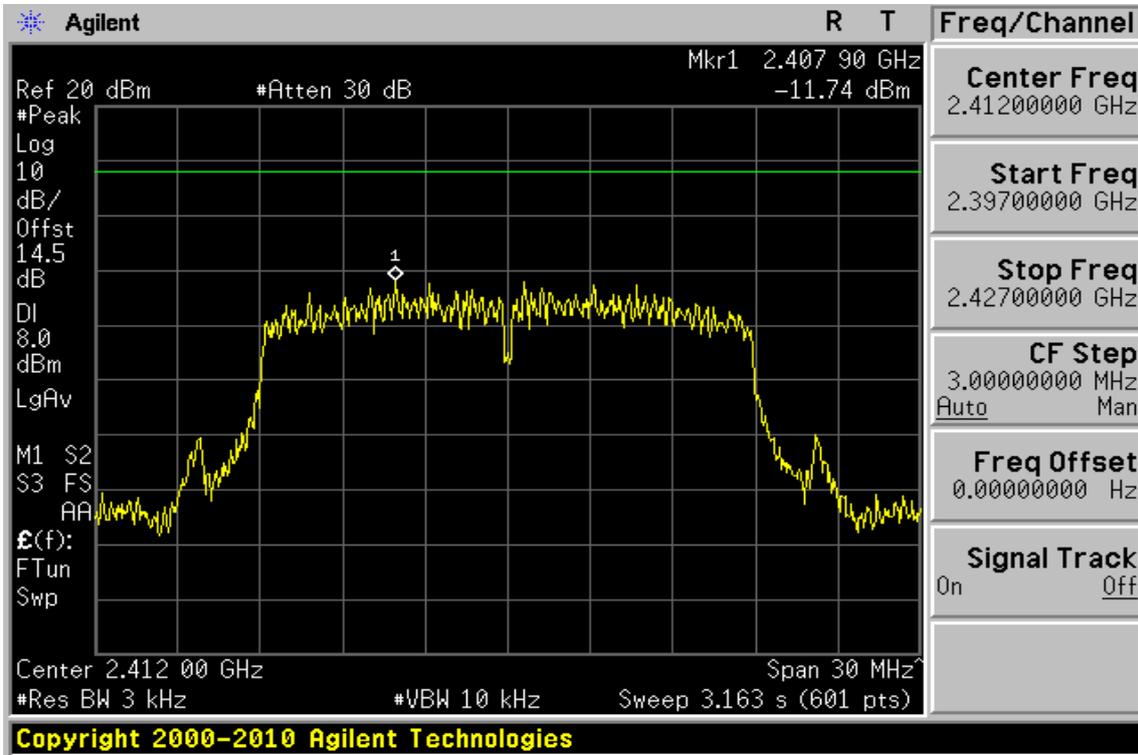


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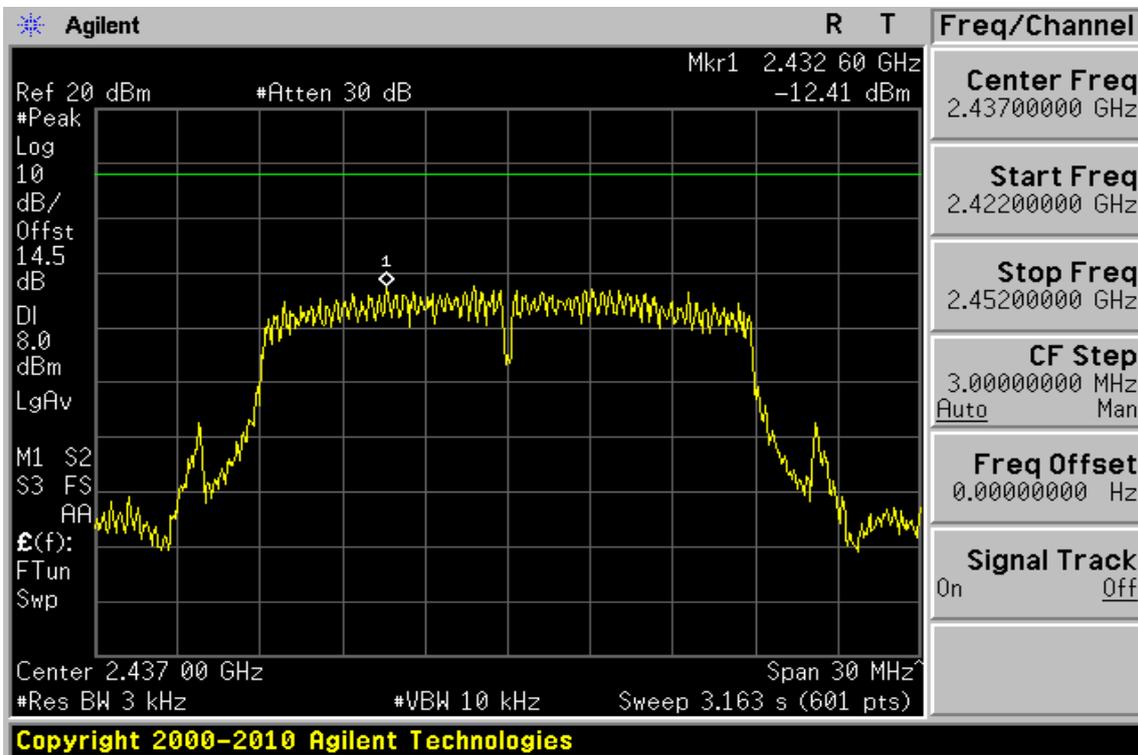
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802.11n_20M

Power Spectral Density Test Plot (CH-Low)



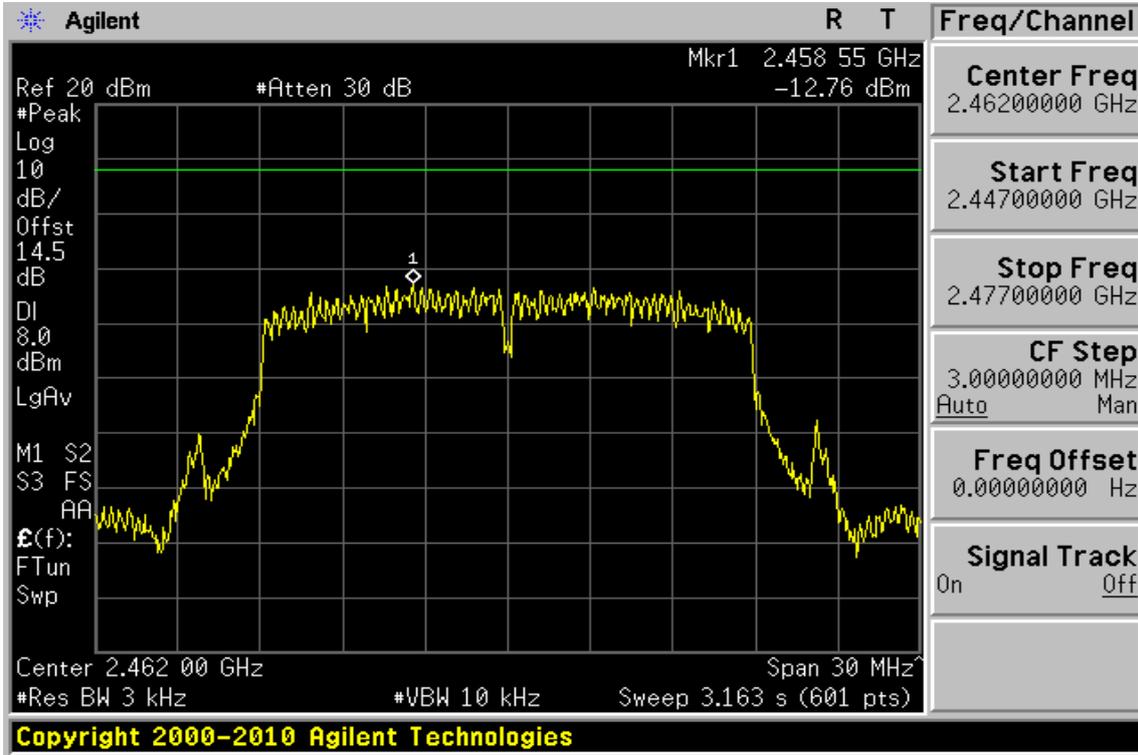
Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)

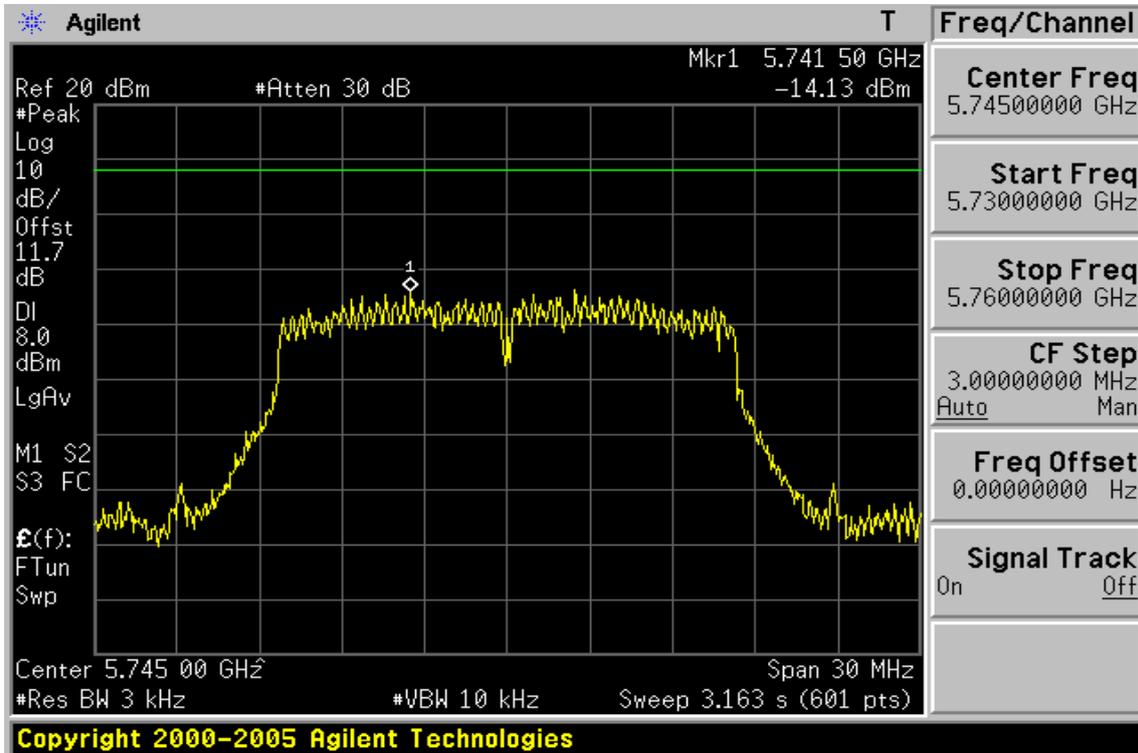


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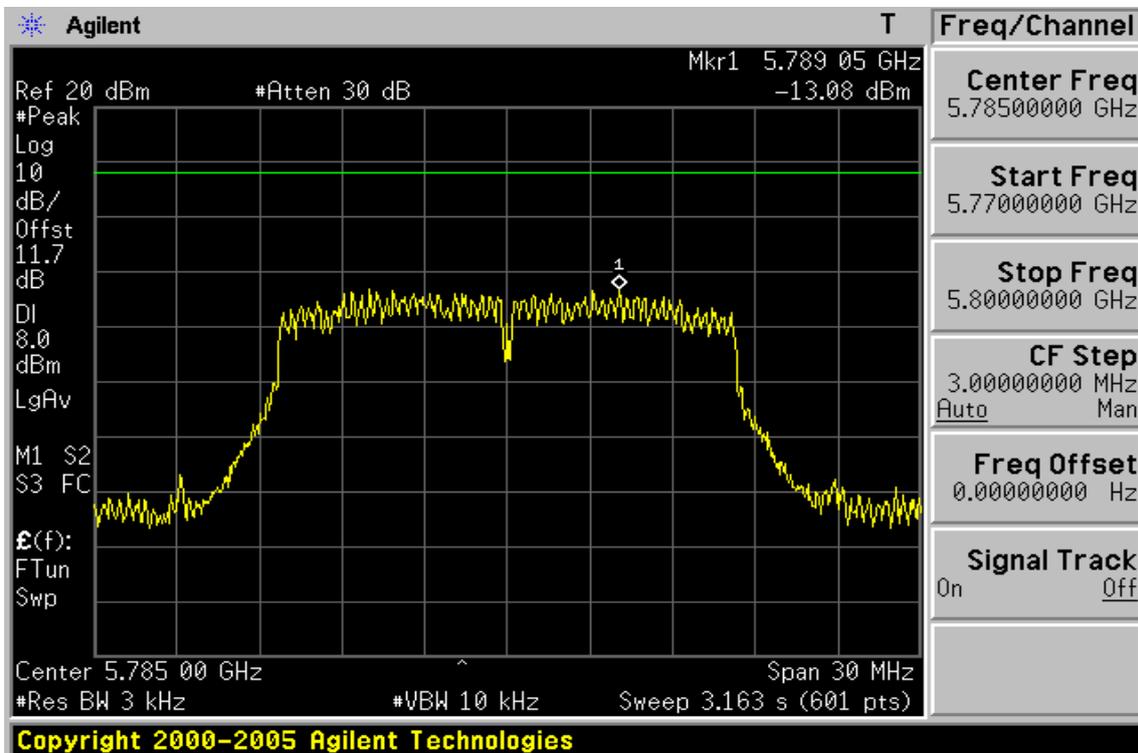
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802.11a

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

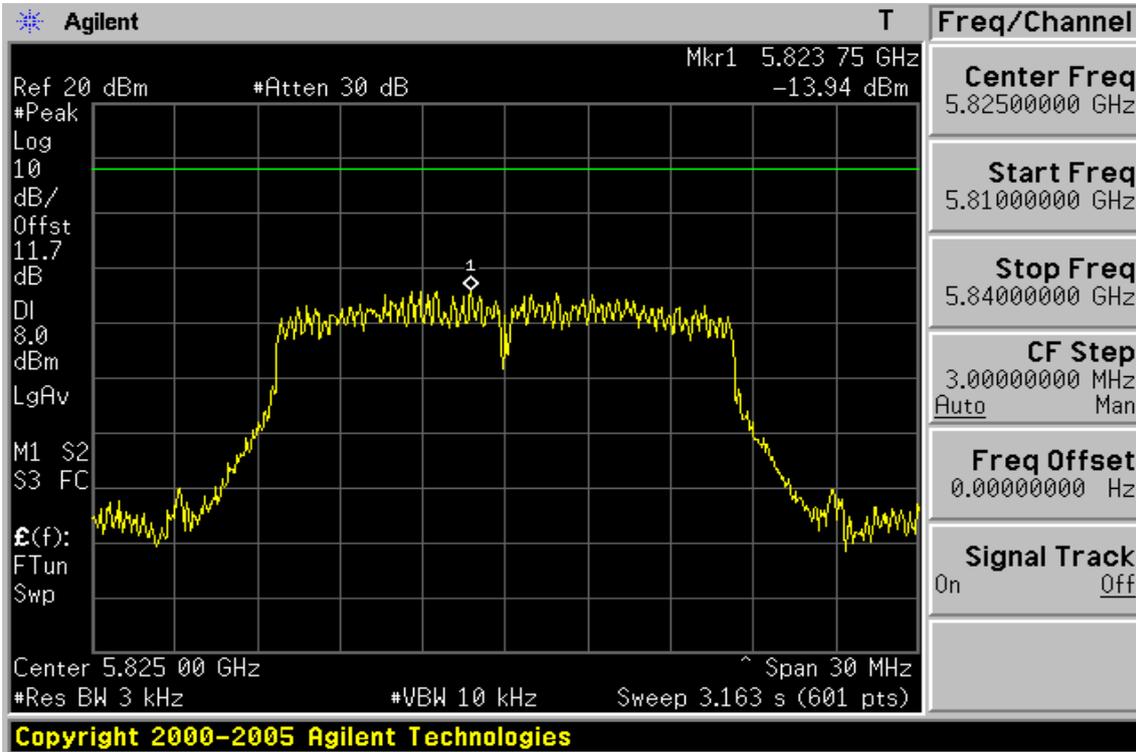


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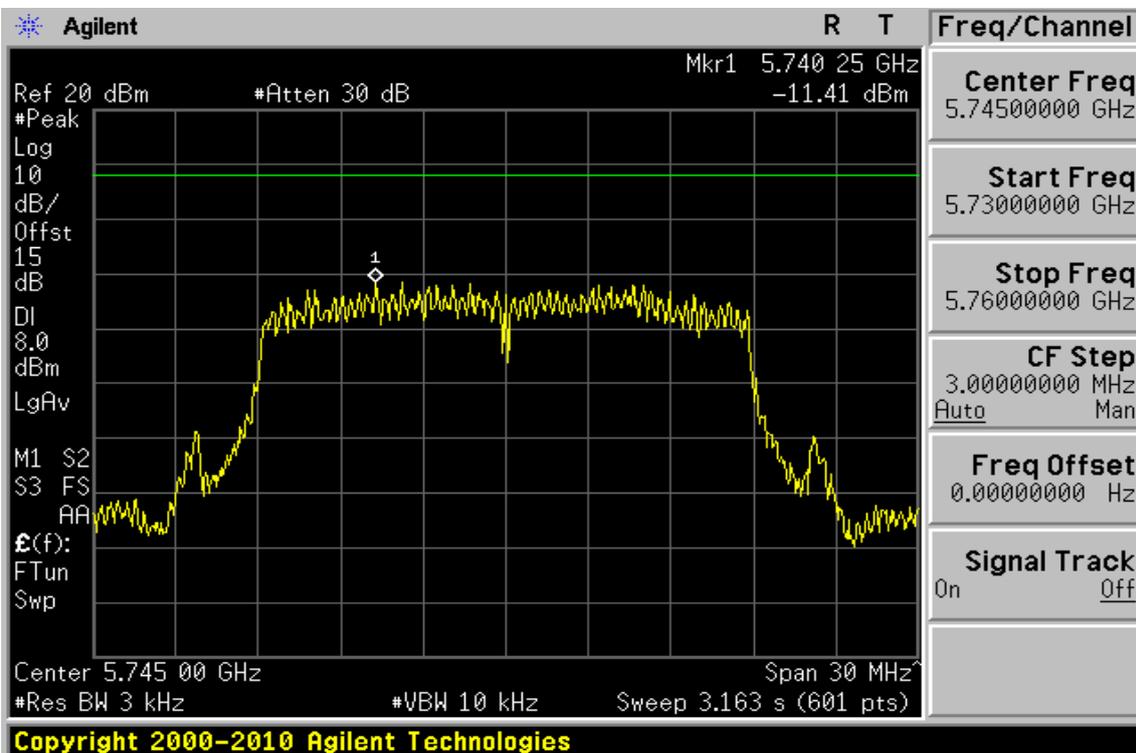
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Power Spectral Density Test Plot (CH-High)



802.11n (5GHz)_20M

Power Spectral Density Test Plot (CH-Low)

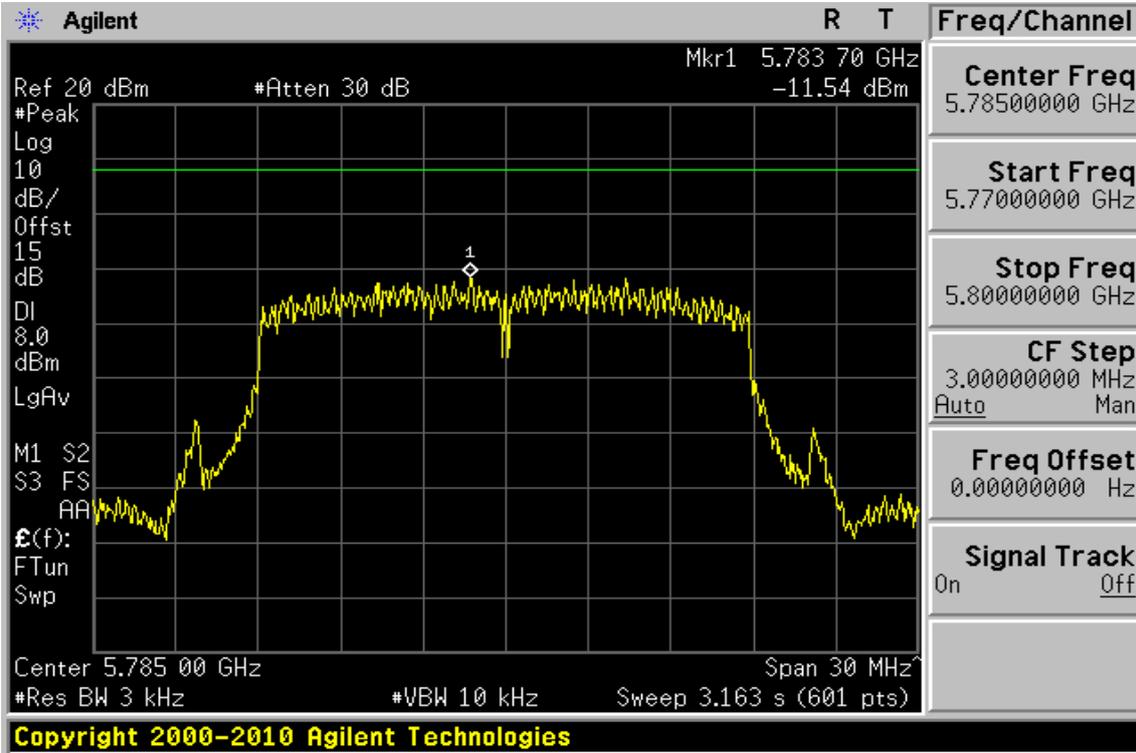


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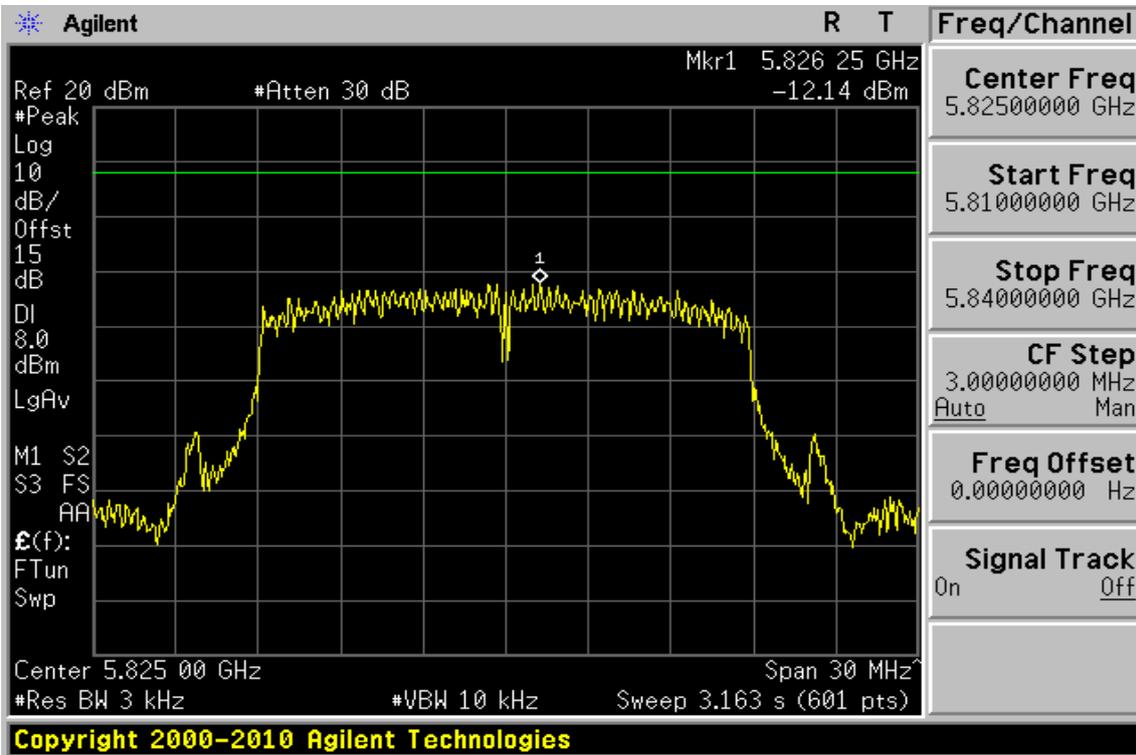
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)

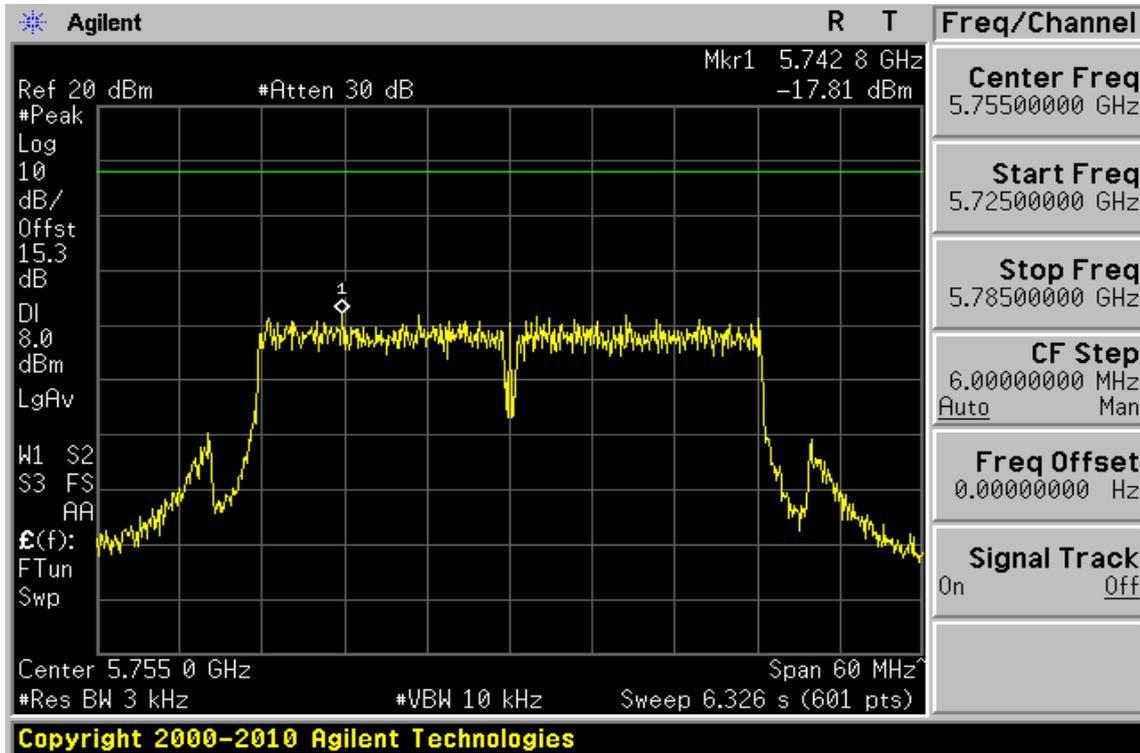


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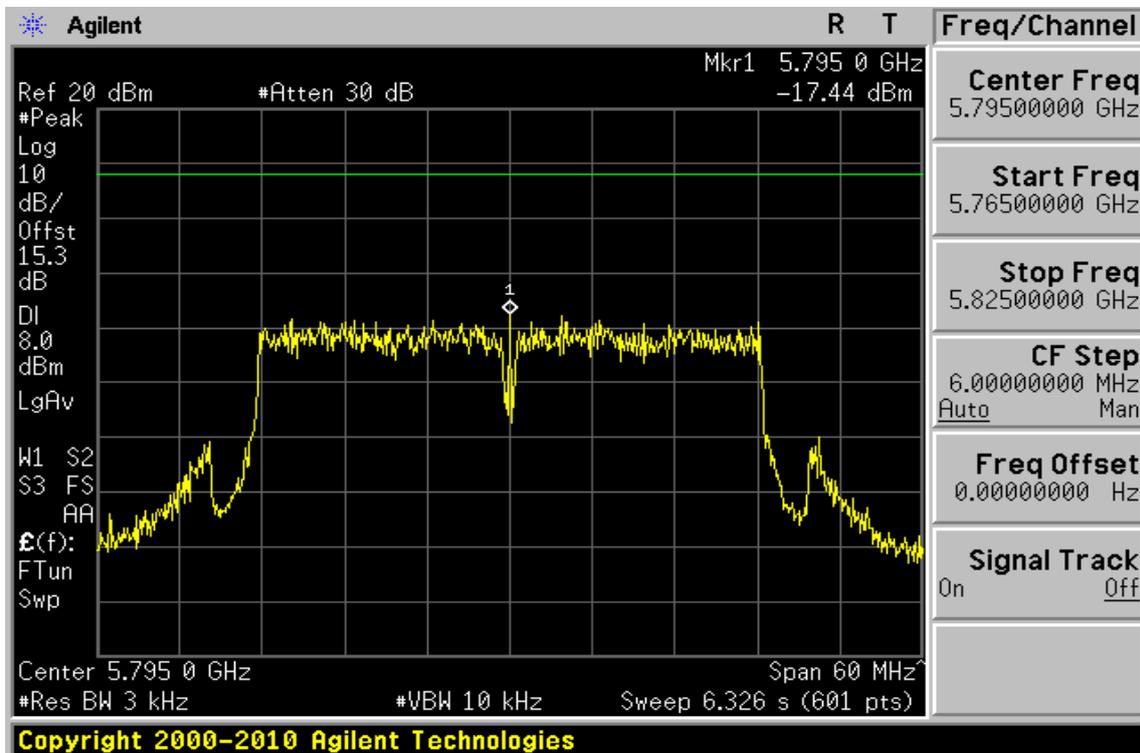
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802.11n (5GHz)_40M

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, 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.

12.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is -0.34dBi for 2.4GHz, -0.04dBi for 5725-5850 MHz, and -0.34dBi for 2.4GHz MIMO, and -0.04dBi for 5.8G MIMO. In addition, the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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