

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

**Product Name:** PDA Phone

**Brand Name:** Sony

**Model No.:** C1905

**Type No.:** PM-0490-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0490

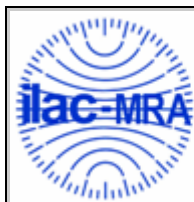
**Report No.:** EH/2013/40022

**Issue Date:** Jun. 06, 2013

**FCC Rule Part:** §15.247, Cat: DTS

**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN  
SGS Taiwan Ltd.  
Electronics & Communication Laboratory

**Prepared by:** No.134, Wu Kung Road, New Taipei Industrial  
Park, Wuku District, New Taipei City, Taiwan  
24803



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## VERIFICATION OF COMPLIANCE

**Applicant:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN

**Product Name:** PDA Phone

**Brand Name:** Sony

**Model No.:** C1905

**Type No.:** PM-0490-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0490

**File Number:** EH/2013/40022




**Date of test:** Apr. 01, 2013 ~ May. 28, 2013

**Date of EUT Received:** Apr. 01, 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 & ANSI 63.10:2009 and 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.

<b>Test By:</b>		<b>Date</b>	Jun. 06, 2013
	_____ <i>Marcus Tseng / Engineer</i>		_____ 
<b>Prepared By:</b>		<b>Date</b>	Jun. 06, 2013
	_____ <i>Violetta Tang / Clerk</i>		_____ 
<b>Approved By:</b>		<b>Date</b>	Jun. 06, 2013
	_____ <i>Jim Chang / Supervisor</i>		_____ 

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## Revision History

Report Number	Revision	Description	Issue Date
EH/2013/40022	Rev.01	Initial creation of document	May. 28, 2013
EH/2013/40022	Rev.02	1. Update Product Description "Marketing Name" into "Model No." and update "Model No." into "Type No." on Page 1, 2 and 6. 2. Update Product Description "M/N: PM-0490-BV" into "M/N: C1905" on Page 21 and 22.	Jun. 06, 2013

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# 1 GENERAL INFORMATION

## 1.1 Product description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Model No.:	C1905	
Type No.:	PM-0490-BV	
Model Difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one Part No.: 1242-6715.3, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Simple Hands-Free (SHF-Black):	Model No.: MH410c, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hi-Fi Wireless Headset:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA Type No.: AG-0502)	
Hardware Version:	A	
Software Version:	15.1.A.1.3	
Power Supply:	3.7Vdc	
	Battery:	Model No.: BA900, Supplier: Sony Type No.: AB-0500
	Adapter:	Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US

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Bluetooth BR+EDR:

Bluetooth Version:	V3.0+HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	9.75dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.46dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: 2.55dBi

NFC:

Operating Frequency:	13.56MHz
Transmit Power:	< 123dBuV/m at 3m.
Number of Channels:	1
Antenna Type:	Loop Antenna
Modulation Type:	ASK, BPSK

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GSM:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 12	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 12	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 12	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 12	1850.2MHz – 1909.8MHz	26dBm
Type of Emission:	GSM 850: 248KGXW, GSM 1900: 247KGXW GPRS 850: 246KGXW, GPRS 1900: 247KGXW EDGE 850: 249KG7W, EDGE 1900: 248KG7W		
IMEI:	004402146593334		

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology
11a	5150~5250	4	12.85dBm	OFDM
	5250~5350	4	12.81dBm	
	5470~5725	11	12.94dBm	
11n	HT20 5150~5250	4	HT20: 12.87dBm	OFDM
	HT20 5250~5350	4	HT20: 12.87dBm	
	HT20 5470~5725	8	HT20: 12.94dBm	
11n	HT40 5150~5250	2	HT40: 11.77dBm	OFDM
	HT40 5250~5350	2	HT40: 11.83dBm	
	HT40 5470~5725	3	HT40: 11.88dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.74dBi (5150MHz-5250MHz) 5GHz Gain: 1.01dBi (5250MHz-5350MHz) 5GHz Gain: 2.70dBi (5470MHz-5725MHz)			
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 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 17.61dBm g: 21.00dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 21.11dBm	OFDM
11a	5725-5850	5	a: 20.12dBm	OFDM
11n (5GHz)	HT20 5725-5850	5	HT20: 20.13dBm	
11n (5GHz)	HT40 5725-5850	2	HT40: 19.66dBm	
Antenna Designation:		PIFA Antenna, 2.4GHz Gain: 2.55dBi 5GHz Gain: 1.66dBi (5725MHz-5850MHz)		
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 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps		

The 2.4G max antenna gain is 2.55dBi which was choosing for Radiated Spurious Emission test.

The 5G max antenna gain is 1.66dBi 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

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## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0490** 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 is authorized under the certification procedure.

## 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4:2009 and ANSI 63.10:2009. 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. & ANSI C63.10:2009. 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 & 6.2 ANSI 63.10:2009. 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 & 6.2.2, and 6.2.3 in ANSI 63.10:2009 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, & Section 6.3, 6.4, 6.5, and 6.6 of ANSI 63.10:2009. ANSI C63.10:2009.

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission

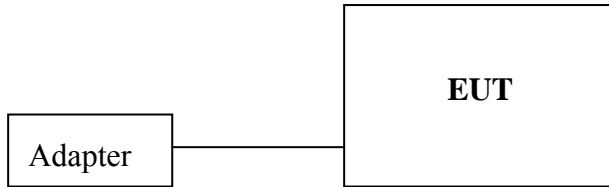


Fig. 2-2 Conducted (Antenna Port) Configuration

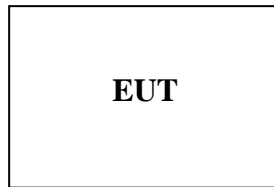


Table 2-1 Equipment Used in Tested System

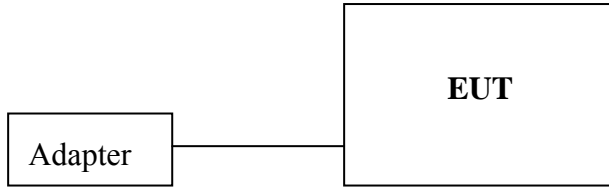
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	QRCT	2.4.83.0	N/A	N/A	N/A

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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	QRCT	2.4.83.0	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 E2 position was reported.

Model no, PM-0490-BV, and Model no PM-0480-BV share the equivalently identical enclosure, material of coating, I/O function, PCB board, display, and power source. In addition, PM-0490-BV, and Model no PM-0480-BV implement the same Bluetooth chipset/module with the same antenna that operates with the same transmitted power level. Hence, this given test report contains the identical test results that inherent from PM-0480-BV.

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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 : <b>Vertical</b> )	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	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	05/20/2011	05/19/2013
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:

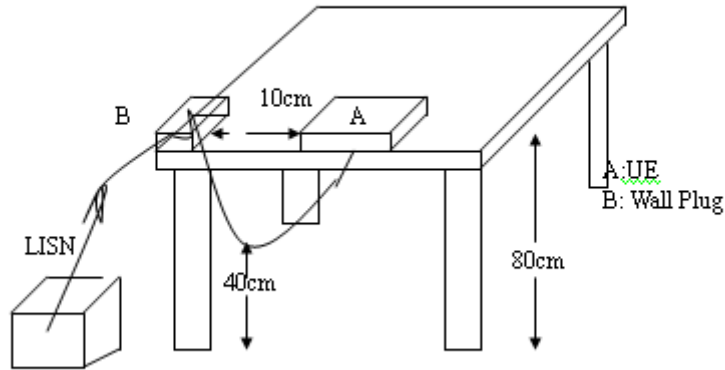
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI 63.10:2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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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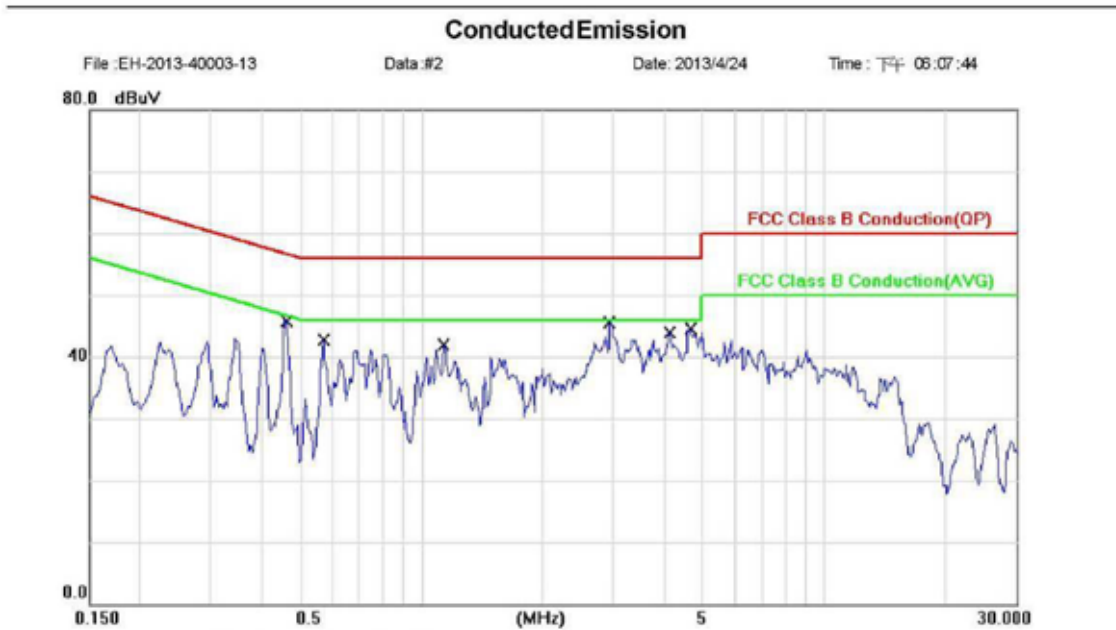
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Apr. 24, 2013
Temperature:	26	Humidity:	60 %
		Test By:	Marcus

Site: ConductionRoom	Phase: <b>L1</b>	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
EUT: PDA Phone	Distance:	
M/N: C1905	Mode: Operationmode	
Note:		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4681	37.79	0.07	37.86	56.55	-18.69	QP	
2		0.4681	27.37	0.07	27.44	46.55	-19.11	AVG	
3		0.5703	22.96	0.08	23.04	56.00	-32.96	QP	
4		0.5703	18.65	0.08	18.73	46.00	-27.27	AVG	
5	*	1.1406	41.78	0.08	41.86	56.00	-14.14	QP	
6		2.9336	31.45	0.10	31.55	56.00	-24.45	QP	
7		2.9336	20.71	0.10	20.81	46.00	-25.19	AVG	
8		4.1406	33.27	0.12	33.39	56.00	-22.61	QP	
9		4.1406	21.85	0.12	21.97	46.00	-24.03	AVG	
10		4.6523	33.13	0.13	33.26	56.00	-22.74	QP	
11		4.6523	23.59	0.13	23.72	46.00	-22.28	AVG	

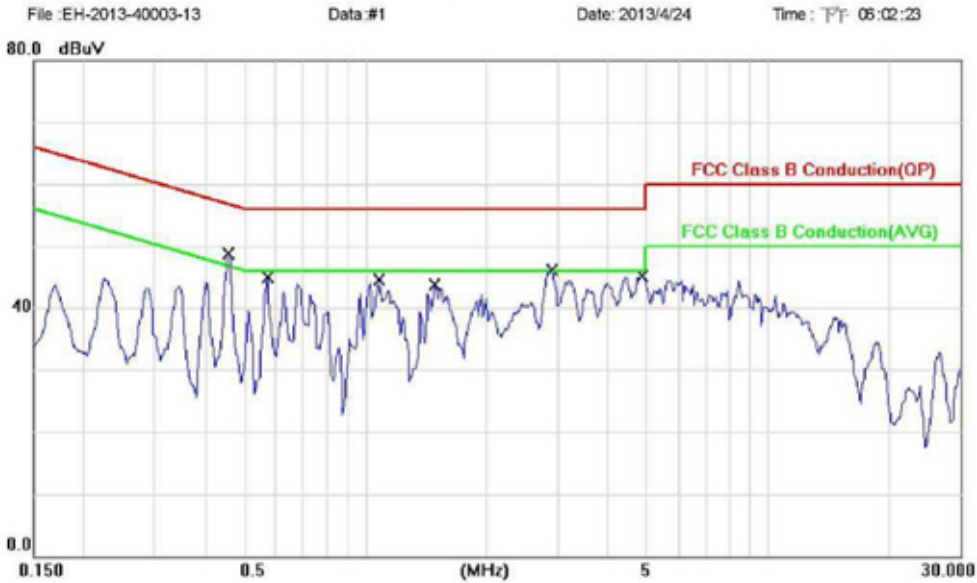
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Site: ConductionRoom  
 Limit: FCC Class B Conduction(QP)  
 EUT: PDA Phone  
 MN: C1905  
 Note:

Phase: N  
 Power: AC 120V/60Hz  
 Distance:  
 Mode: Operationmode

Temperature: 26 °C  
 Humidity: 60%

### Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.4586	47.21	0.12	47.33	56.72	-9.39	QP	
2	*	0.4586	41.62	0.12	41.74	46.72	-4.98	AVG	
3		0.5703	42.78	0.14	42.92	56.00	-13.08	QP	
4		0.5703	37.22	0.14	37.36	46.00	-8.64	AVG	
5		1.0781	38.71	0.16	38.87	56.00	-17.13	QP	
6		1.0781	30.31	0.16	30.47	46.00	-15.53	AVG	
7		1.4805	38.88	0.16	39.04	56.00	-16.96	QP	
8		1.4805	29.48	0.16	29.64	46.00	-16.36	AVG	
9		2.9141	40.99	0.17	41.16	56.00	-14.84	QP	
10		2.9141	31.72	0.17	31.89	46.00	-14.11	AVG	
11		4.8711	38.96	0.20	39.16	56.00	-16.84	QP	
12		4.8711	29.23	0.20	29.43	46.00	-16.57	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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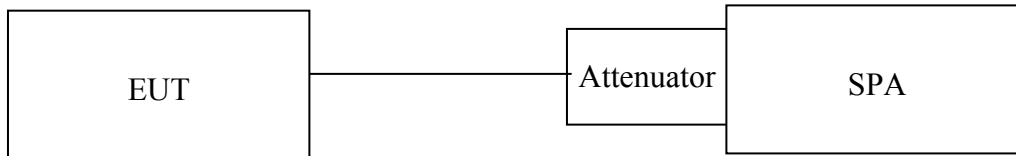


**7.2 Measurement Equipment Used:**

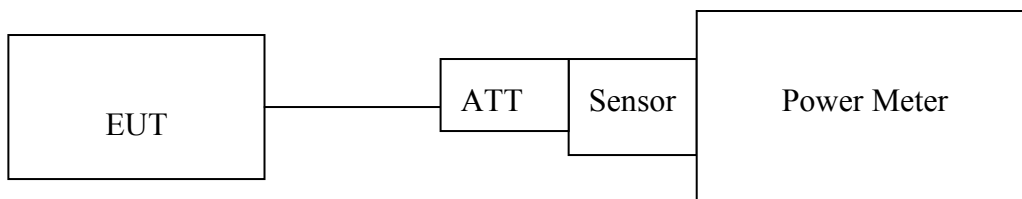
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014
Spectrum Analyzer	Agilent	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.

*Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (a/n\_ht20) shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones b = 96.5%, g = 98.2%, and n\_ht\_20 = 98%, a =98.6 ,n\_20 (5G) = 99%, and n\_40 (5G) = 99.3%, where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.*

**Formula:**

$$Duty\ Cycle = Ton / (Ton+Toff)$$

**Test Procedure:**

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

Duty Cycle:

	Duty Cycle
802.11b	0.965
802.11g	0.982
802.11n_20 (2.4G)	0.980
802.11a	0.986
802.11n_20 (5G)	0.990
802.11n_40 (5G)	0.993

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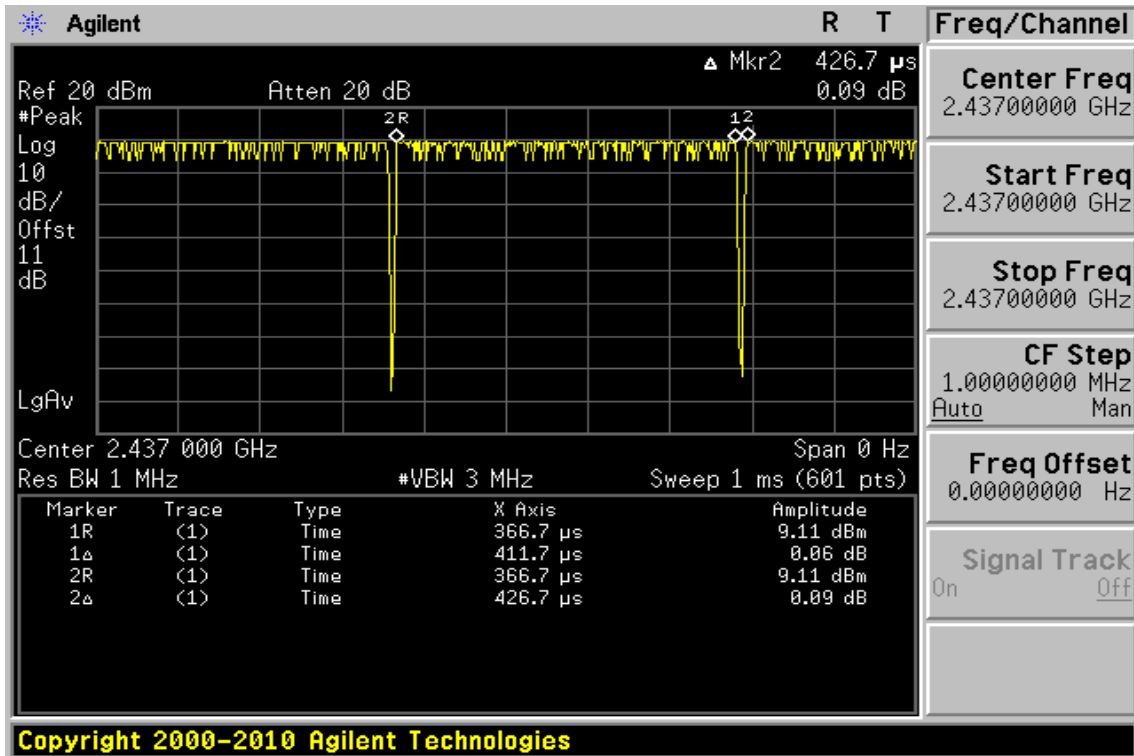
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Duty Cycle Factor:  $10 * \log(1/0.965) = 0.15$

**Duty Factor:**

**802.11 b**

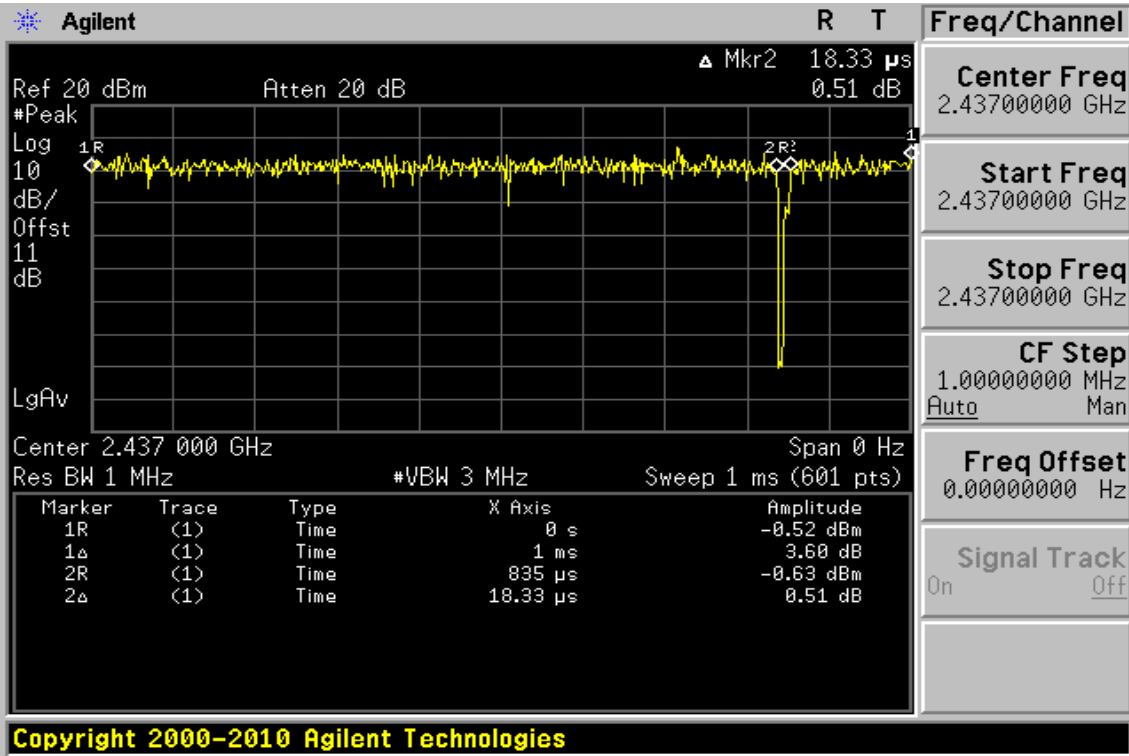


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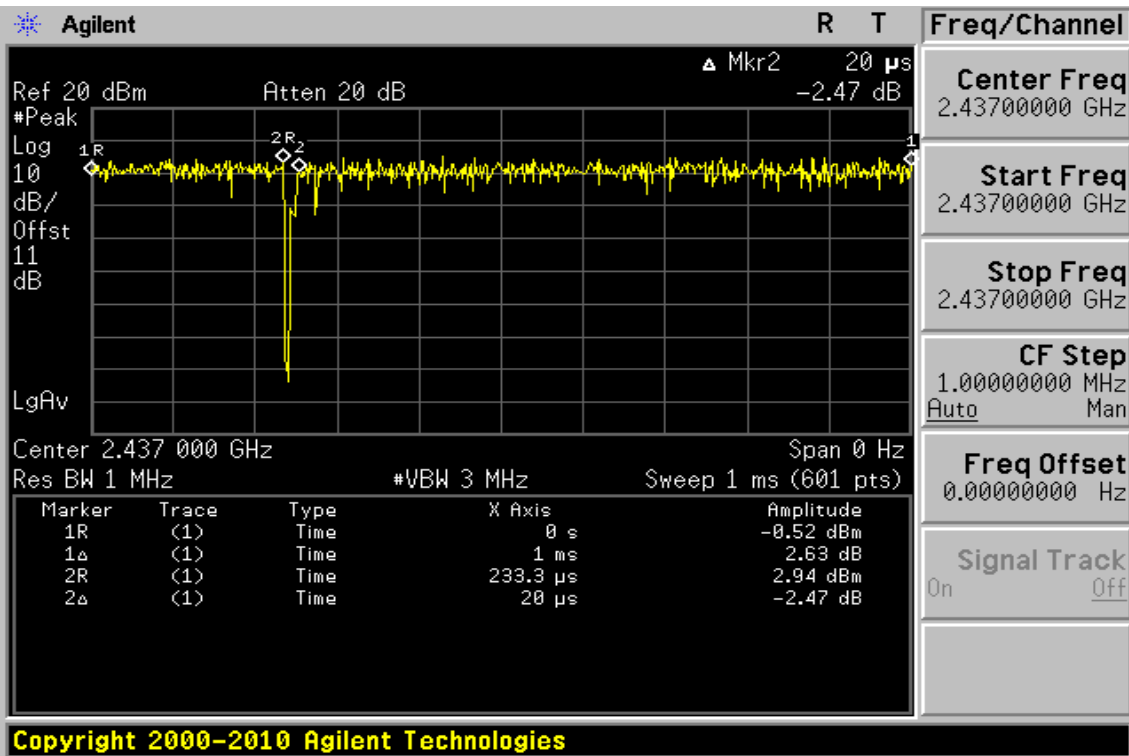
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802.11 g



802.11 n\_20 MHz

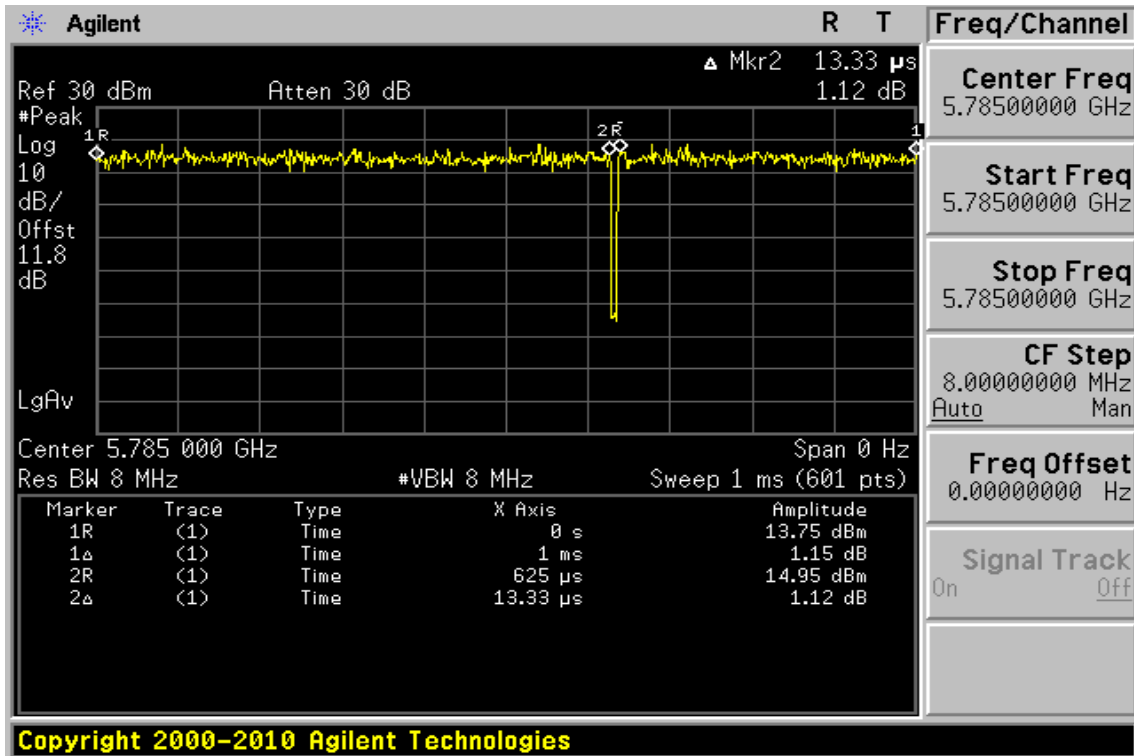


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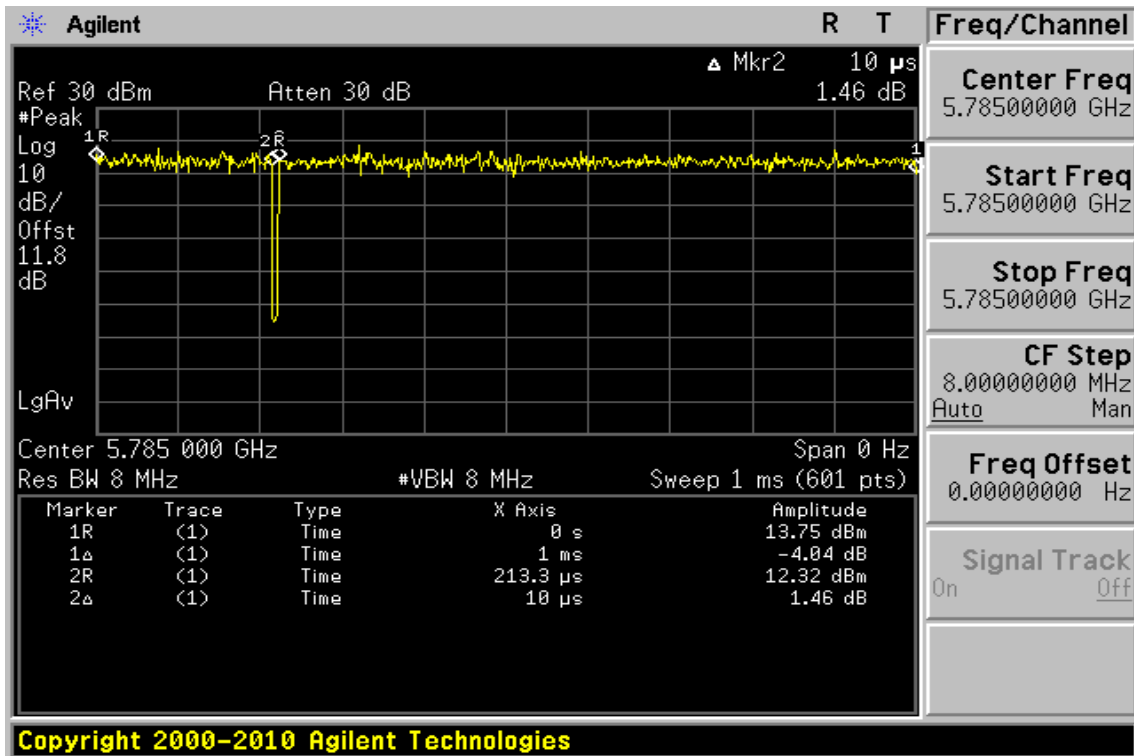
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802.11a



802.11 n (5GHz)\_20M

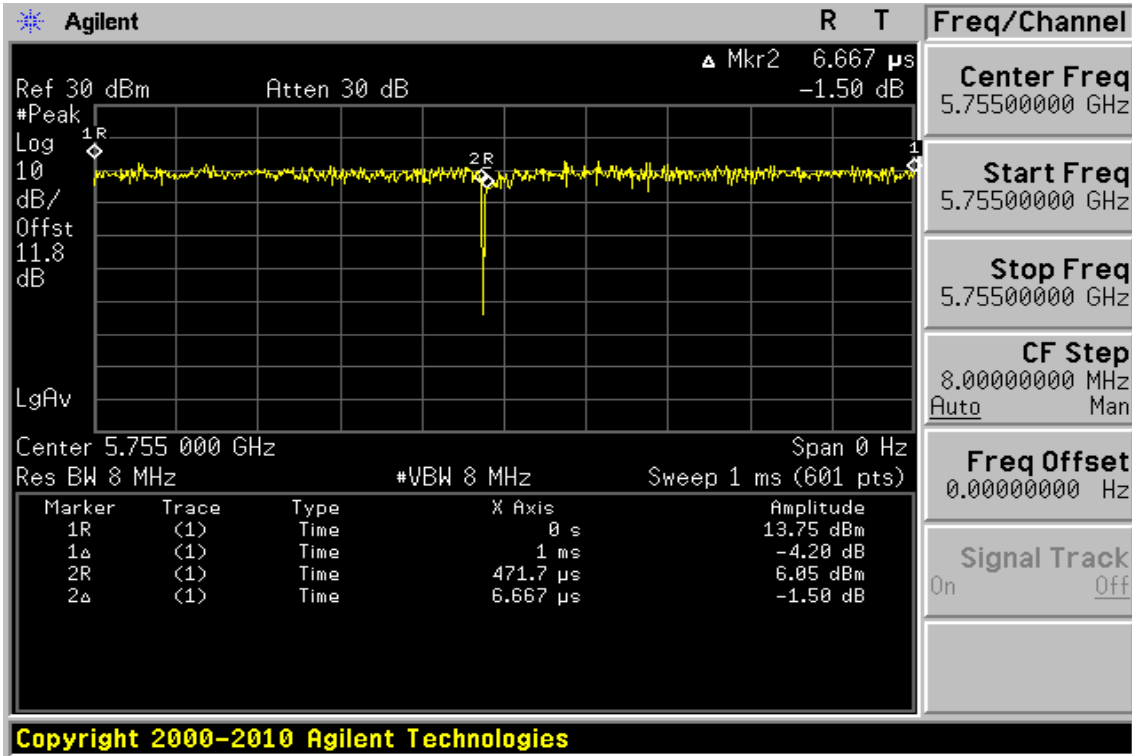


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802.11 n (5GHz)\_40M



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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	17.58	17.55	17.51	17.47	1 Watt = 30 dBm	
6	2437	<b>17.61</b>	17.58	17.55	17.51	1 Watt = 30 dBm	
11	2462	17.55	17.51	17.47	17.42	1 Watt = 30 dBm	

		Average Power Output (dBm)					
CH	Frequency (MHz)	Data Rate				Required Limit	
		1	2	5.5	11		
1	2412	<b>14.91</b>	14.88	14.85	14.81	1 Watt = 30 dBm	
6	2437	14.87	14.84	14.80	14.77	1 Watt = 30 dBm	
11	2462	14.86	14.82	14.78	14.74	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	20.75	20.73	20.70	20.68	20.66	20.64	20.62	20.60	1 Watt = 30 dBm
6	2437	20.91	20.89	20.86	20.84	20.82	20.80	20.78	20.76	1 Watt = 30 dBm
11	2462	<b>21.00</b>	20.98	20.95	20.93	20.91	20.89	20.87	20.85	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	12.08	12.00	11.98	11.94	11.90	11.87	11.85	11.81	1 Watt = 30 dBm
6	2437	12.17	12.09	12.07	12.03	12.00	11.96	11.93	11.90	1 Watt = 30 dBm
11	2462	<b>12.30</b>	12.21	12.19	12.15	12.12	12.08	12.05	12.01	1 Watt = 30 dBm

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802.11n\_20M

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	20.85	20.84	20.82	20.79	20.75	20.74	20.72	20.70	1 Watt = 30 dBm
6	2437	20.66	20.65	20.63	20.60	20.56	20.55	20.53	20.51	1 Watt = 30 dBm
11	2462	<b>21.11</b>	21.10	21.08	21.05	21.01	21.00	20.98	20.96	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	12.13	12.06	12.00	11.98	11.94	11.90	11.87	11.85	1 Watt = 30 dBm
6	2437	12.17	12.09	12.07	12.03	12.00	11.96	11.93	11.90	1 Watt = 30 dBm
11	2462	<b>12.31</b>	12.21	12.19	12.15	12.12	12.08	12.05	12.01	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	20.12	20.10	20.07	20.05	20.02	20.00	19.97	19.95	1 Watt = 30 dBm
157	5785	20.06	20.04	20.01	19.99	19.96	19.94	19.91	19.89	1 Watt = 30 dBm
165	5825	19.97	19.95	19.92	19.90	19.87	19.85	19.82	19.80	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	12.81	12.80	12.77	12.76	12.74	12.73	12.71	12.68	1 Watt = 30 dBm
157	5785	12.70	12.66	12.64	12.63	12.60	12.59	12.58	12.56	1 Watt = 30 dBm
165	5825	12.64	12.63	12.61	12.60	12.59	12.58	12.56	12.55	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	20.05	20.04	20.01	19.99	19.96	19.93	19.92	19.89	1 Watt = 30 dBm
157	5785	20.08	20.07	20.04	20.02	19.99	19.96	19.95	19.92	1 Watt = 30 dBm
165	5825	20.13	20.12	20.09	20.07	20.04	20.01	20.00	19.97	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	12.90	12.88	12.87	12.84	12.83	12.80	12.79	12.77	1 Watt = 30 dBm
157	5785	12.86	12.84	12.82	12.79	12.76	12.74	12.72	12.71	1 Watt = 30 dBm
165	5825	12.91	12.88	12.87	12.84	12.83	12.80	12.79	12.77	1 Watt = 30 dBm

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802.11n (5GHz)\_40M

		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
151	5755	19.66	19.65	19.63	19.60	19.58	19.55	19.54	19.52	1 Watt = 30 dBm
159	5795	19.20	19.19	19.17	19.14	19.12	19.09	19.08	19.06	1 Watt = 30 dBm

		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
151	5755	11.90	11.88	11.87	11.84	11.83	11.80	11.79	11.77	1 Watt = 30 dBm
159	5795	11.86	11.84	11.82	11.79	11.76	11.74	11.72	11.71	1 Watt = 30 dBm

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

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802.11b

		EIRP (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	17.46	17.43	17.4	17.36	4 Watt = 36 dBm
6	2437	17.42	17.39	17.35	17.32	4 Watt = 36 dBm
11	2462	17.41	17.37	17.33	17.29	4 Watt = 36 dBm

802.11g

		EIRP (dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	14.63	14.55	14.53	14.49	14.45	14.42	14.40	14.36	4 Watt = 30 dBm
6	2437	14.72	14.64	14.62	14.58	14.55	14.51	14.48	14.45	4 Watt = 30 dBm
11	2462	14.85	14.76	14.74	14.70	14.67	14.63	14.60	14.56	4 Watt = 30 dBm

802.11n 20M

		EIRP (dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	14.68	14.61	14.55	14.53	14.49	14.45	14.42	14.40	4 Watt = 36 dBm
6	2437	14.72	14.64	14.62	14.58	14.55	14.51	14.48	14.45	4 Watt = 36 dBm
11	2462	14.86	14.76	14.74	14.70	14.67	14.63	14.60	14.56	4 Watt = 36 dBm

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802.11a

		EIRP (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6	9	12	18	24	36	48	54	
149	5745	14.47	14.46	14.43	14.42	14.40	14.39	14.37	14.34	4 Watt = 36 dBm
157	5785	14.36	14.32	14.30	14.29	14.26	14.25	14.24	14.22	4 Watt = 36 dBm
165	5825	14.30	14.29	14.27	14.26	14.25	14.24	14.22	14.21	4 Watt = 36 dBm

802.11n (5GHz)\_20M

		EIRP (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
149	5745	14.56	14.54	14.53	14.50	14.49	14.46	14.45	14.43	4 Watt = 36 dBm
157	5785	14.52	14.50	14.48	14.45	14.42	14.40	14.38	14.37	4 Watt = 36 dBm
165	5825	14.57	14.54	14.53	14.50	14.49	14.46	14.45	14.43	4 Watt = 36 dBm

802.11n (5GHz)\_40M

		EIRP (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
151	5755	13.56	13.54	13.53	13.50	13.49	13.46	13.45	13.43	4 Watt = 36 dBm
159	5795	13.52	13.50	13.48	13.45	13.42	13.40	13.38	13.37	4 Watt = 36 dBm

\* Note: EIRP = Average Power + Gain, where the nominal gain of the antenna (2.55dBi for 2.4GHz, and 1.66dBi for 5GHz)

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## 8 6dB BANDWIDTH

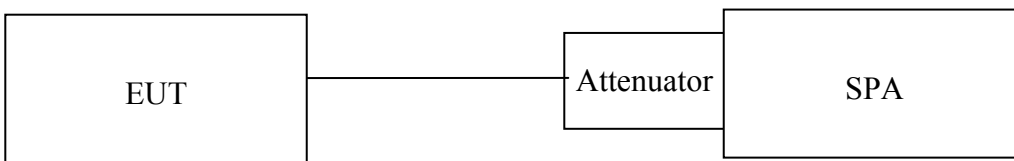
### 8.1 Standard Applicable:

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 Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014
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	8592	> 500	PASS
2437	8578	> 500	PASS
2462	8143	> 500	PASS

**802.11g**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16414	> 500	PASS
2437	16398	> 500	PASS
2462	16465	> 500	PASS

**802.11n\_20M**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	17628	> 500	PASS
2437	17611	> 500	PASS
2462	17666	> 500	PASS

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**802.11a**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5745	16457	> 500	PASS
5785	16388	> 500	PASS
5825	16389	> 500	PASS

**802.11n (5GHz)\_20M**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5745	17650	> 500	PASS
5785	17638	> 500	PASS
5825	17636	> 500	PASS

**802.11n (5GHz)\_40M**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
5755	35381	> 500	PASS
5795	34931	> 500	PASS

\* Note: Offset 11dB for 2.4G 802.11b/g/n\_20;  
Offset 11.8dB for 5G 802.11a/n\_20/n\_40.

\* Note: The arrow “->” reveals X decibel level

\*Refer to next page for plots

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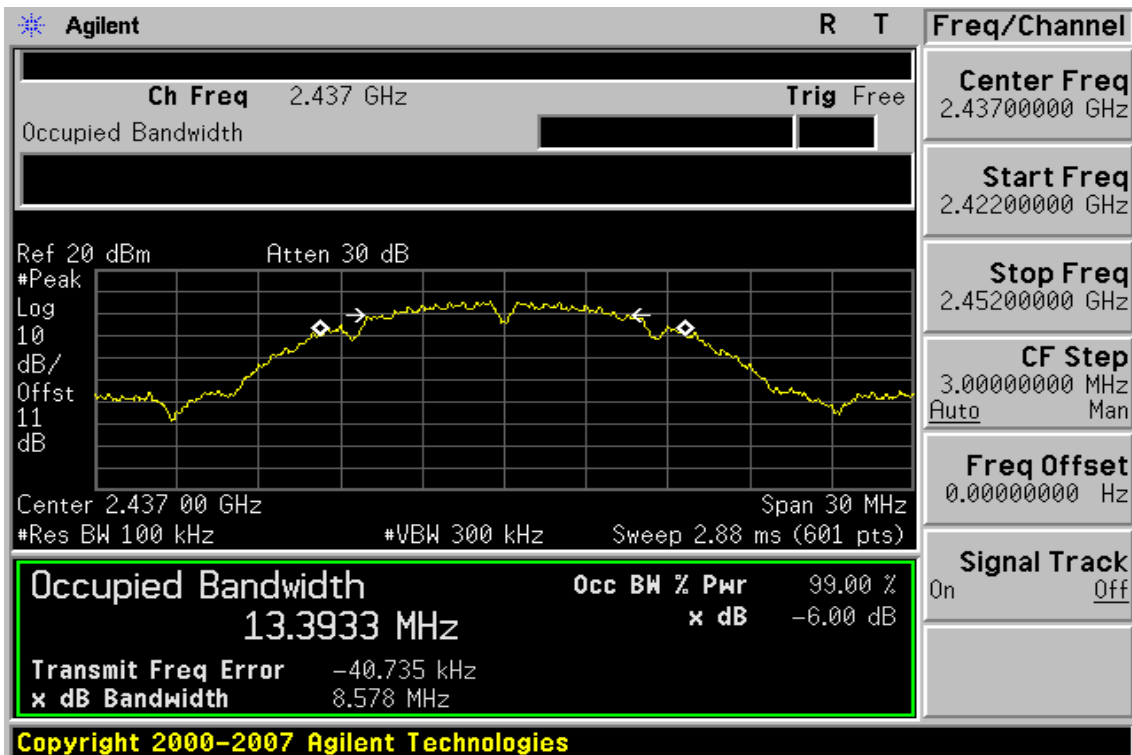
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

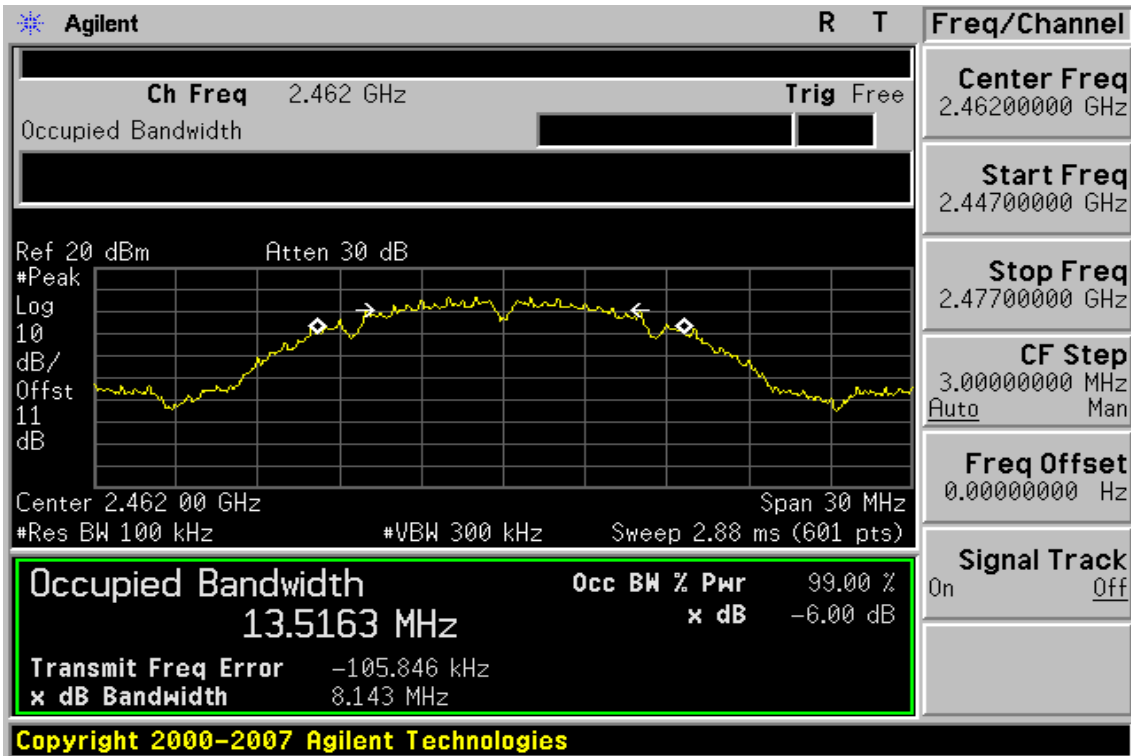


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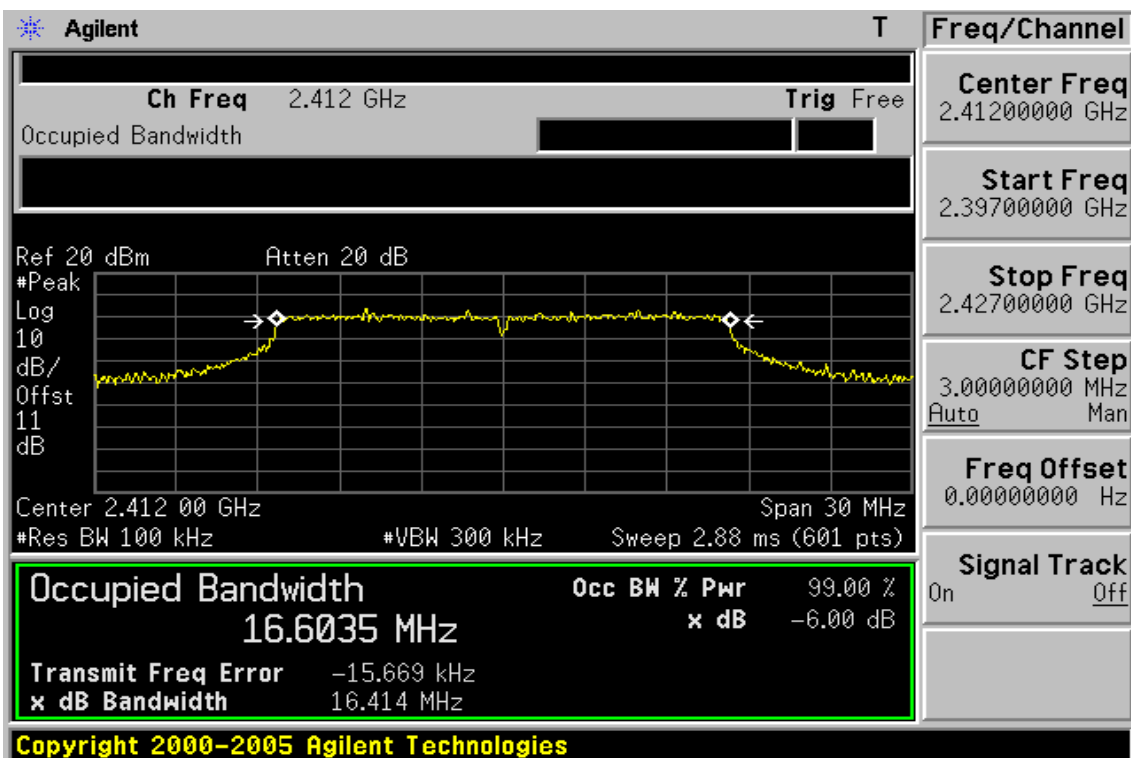
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### 6dB Band Width Test Data CH-High



### 802.11g

### 6dB Band Width Test Data CH-Low



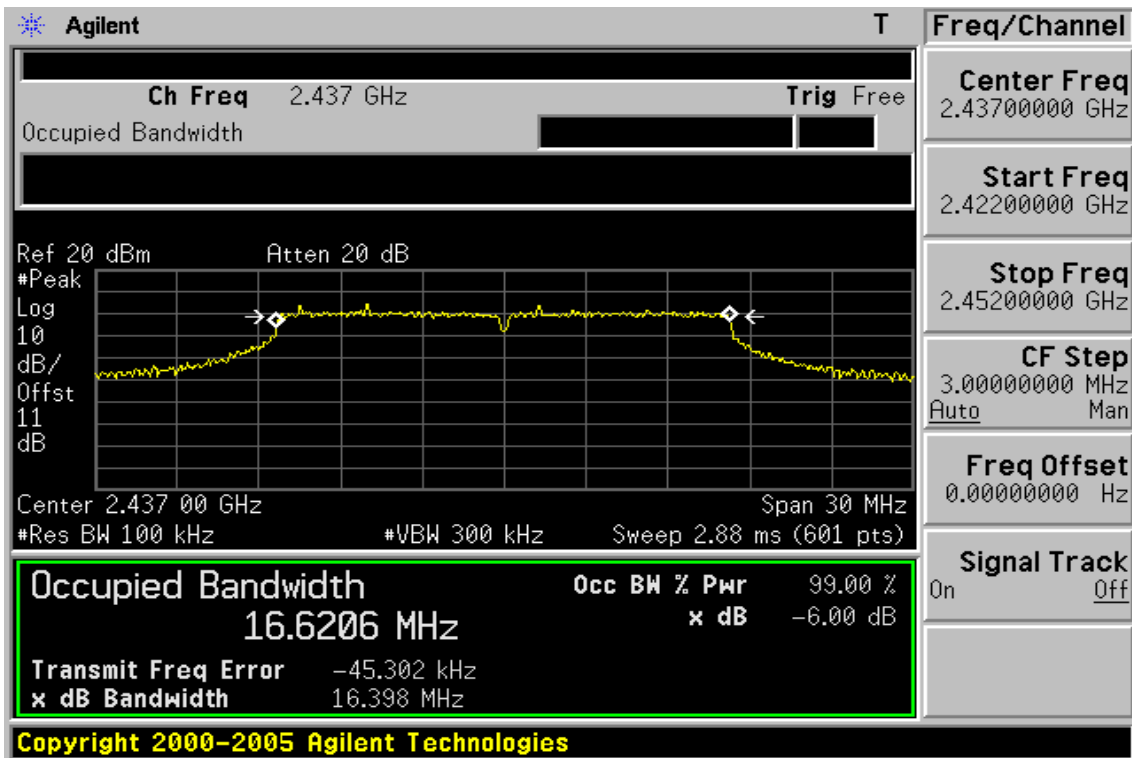
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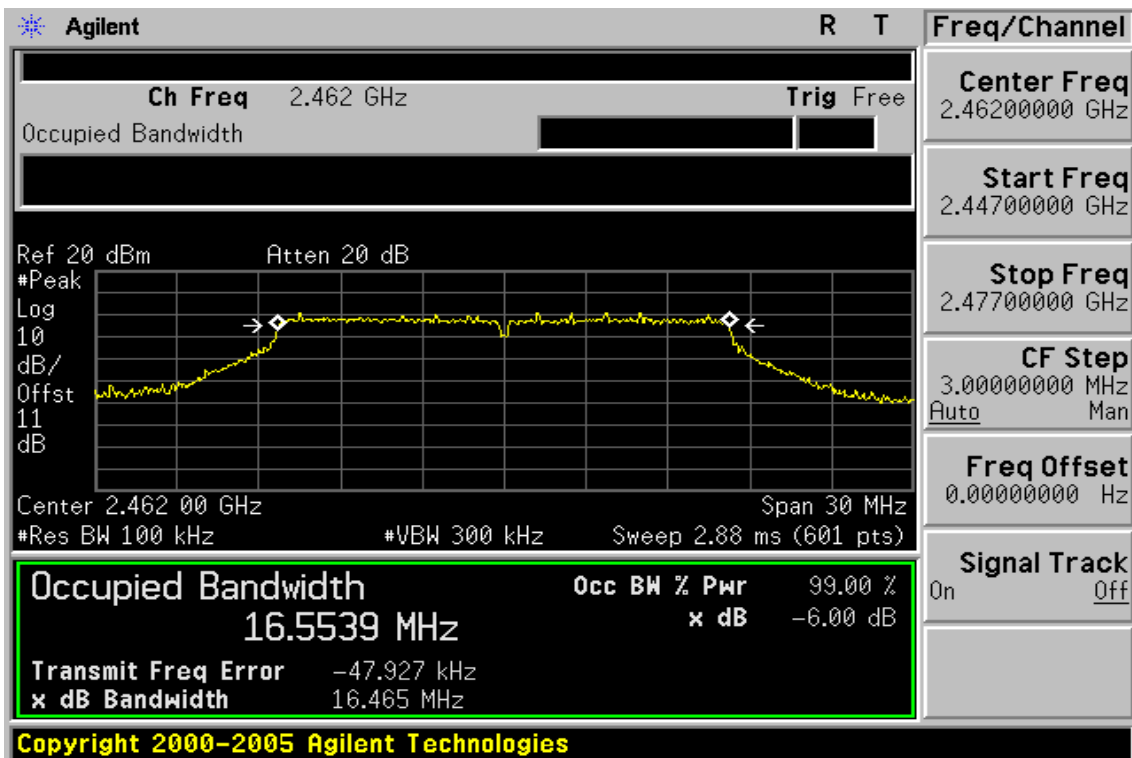
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### 6dB Band Width Test Data CH-Mid



### 6dB Band Width Test Data CH-High



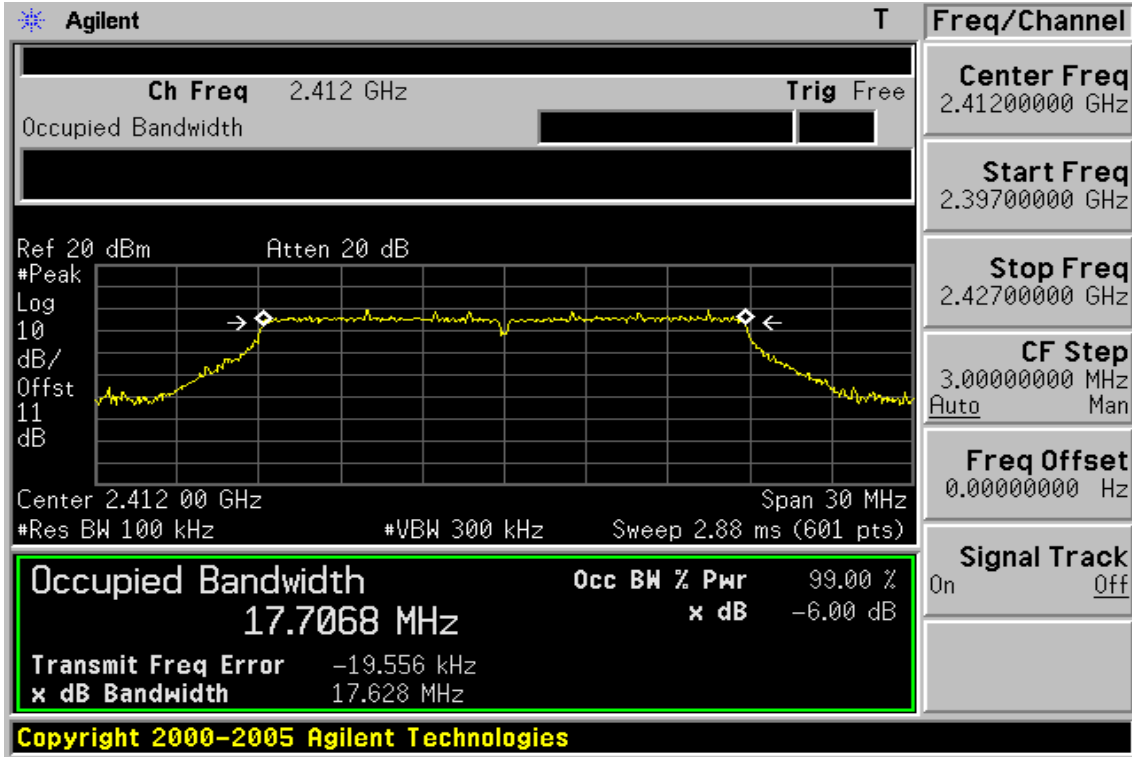
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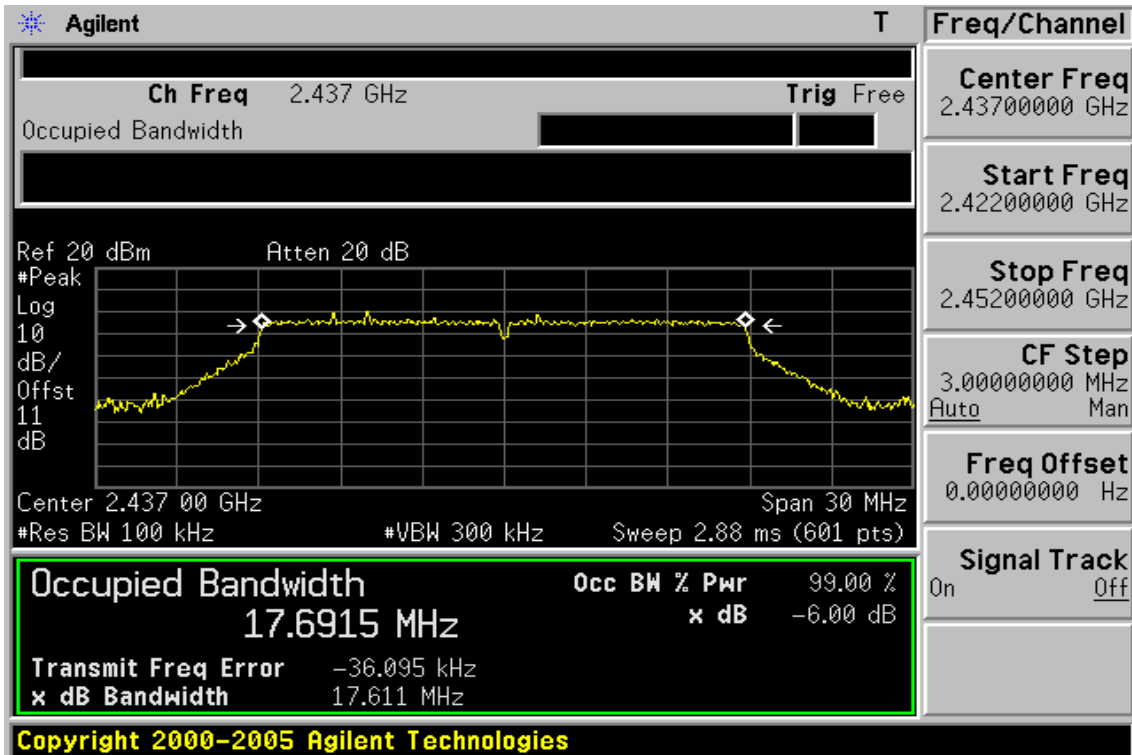
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802.11n\_20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

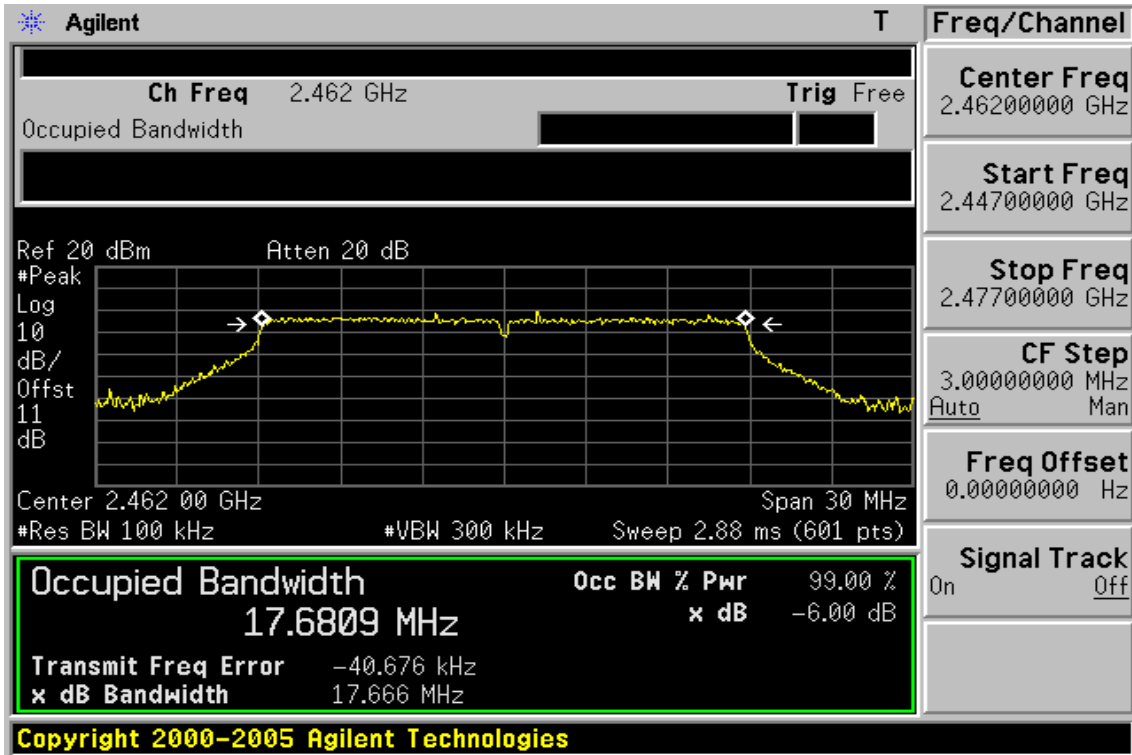


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### 6dB Band Width Test Data CH-High



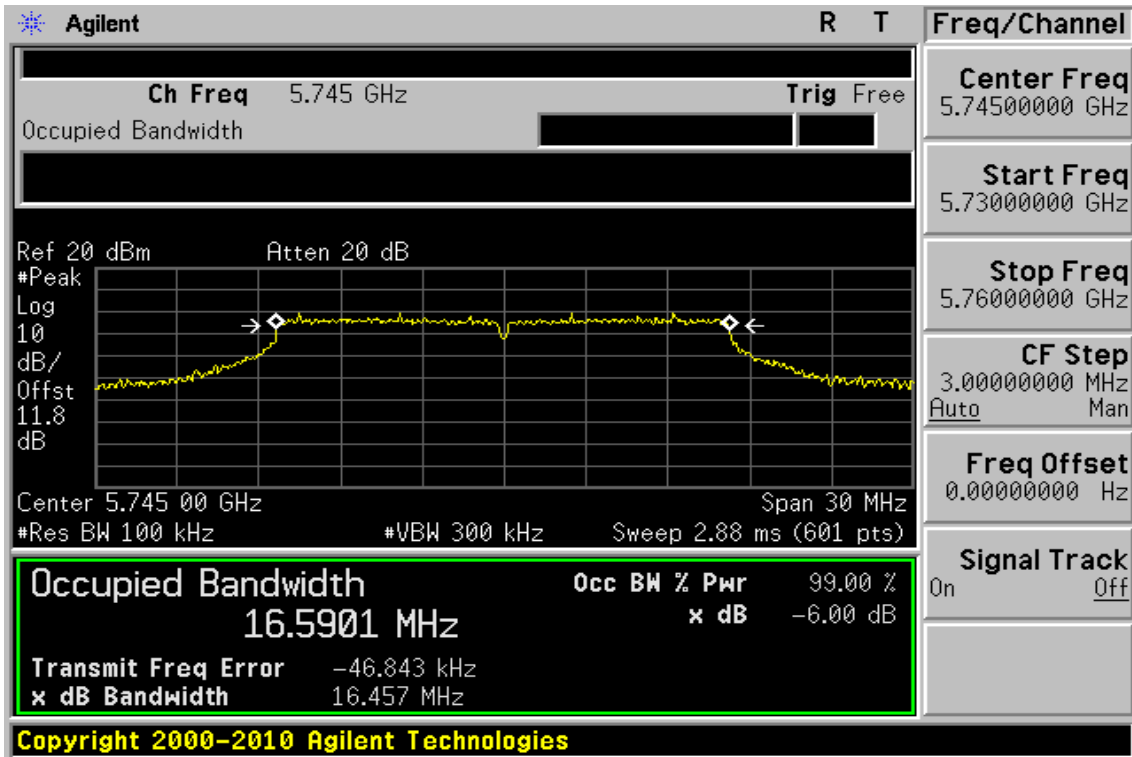
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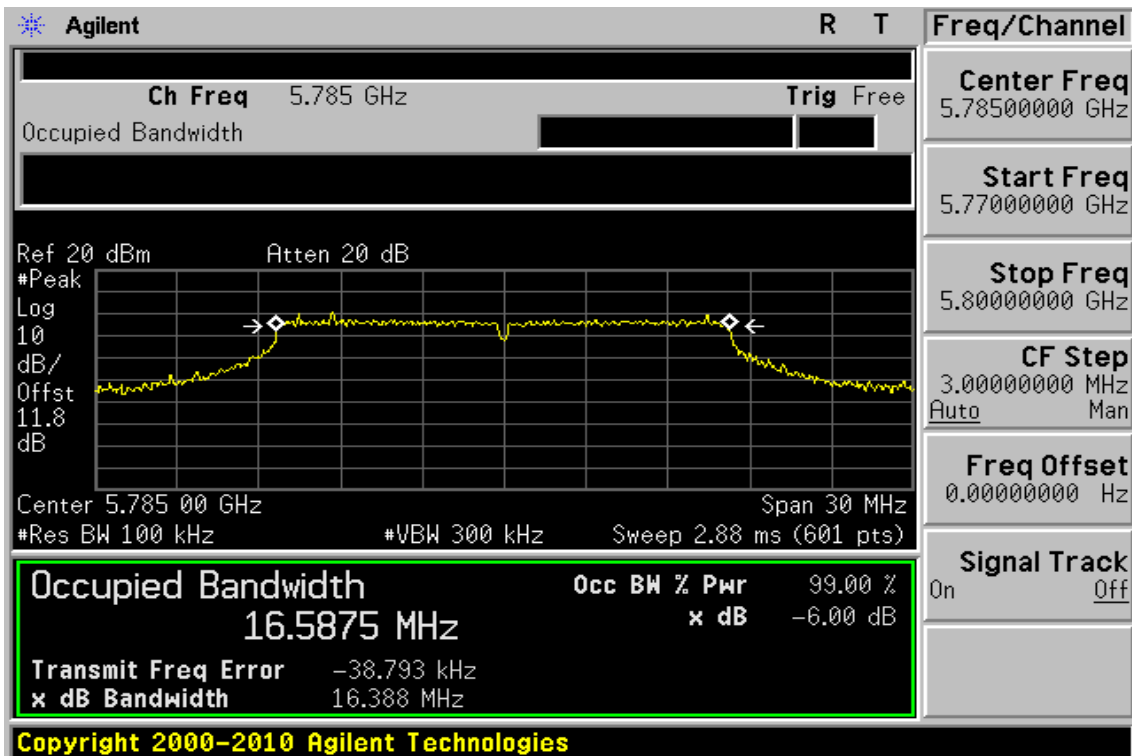
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802.11a

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

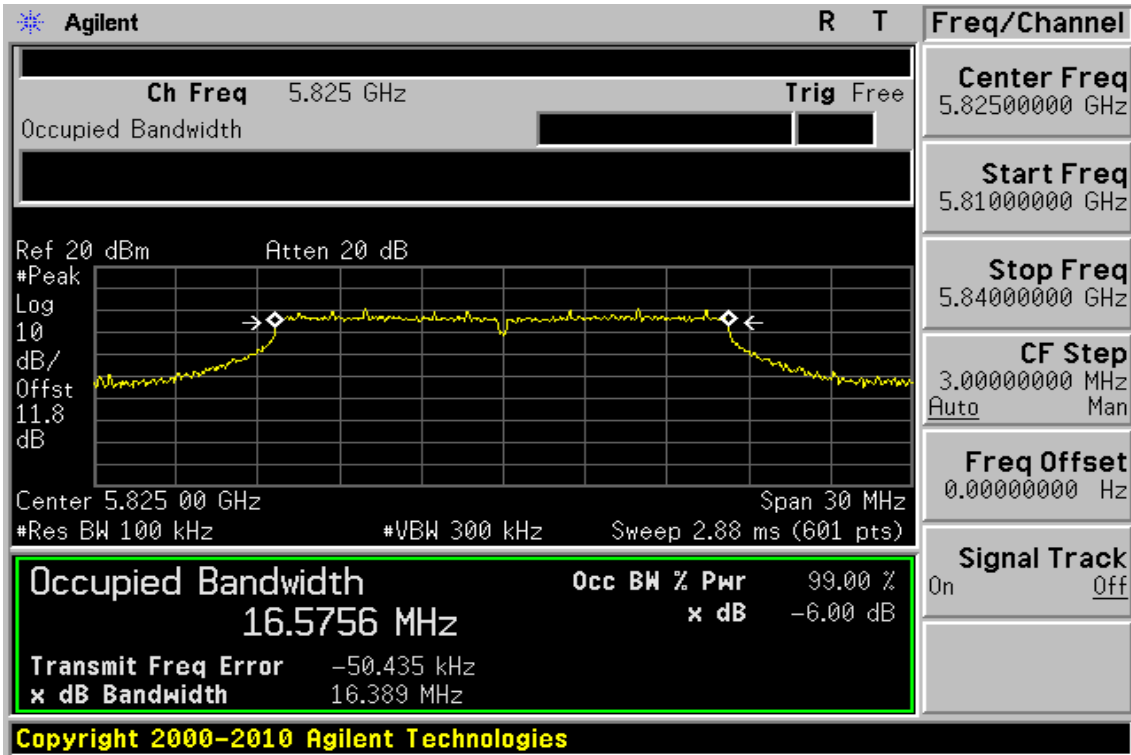


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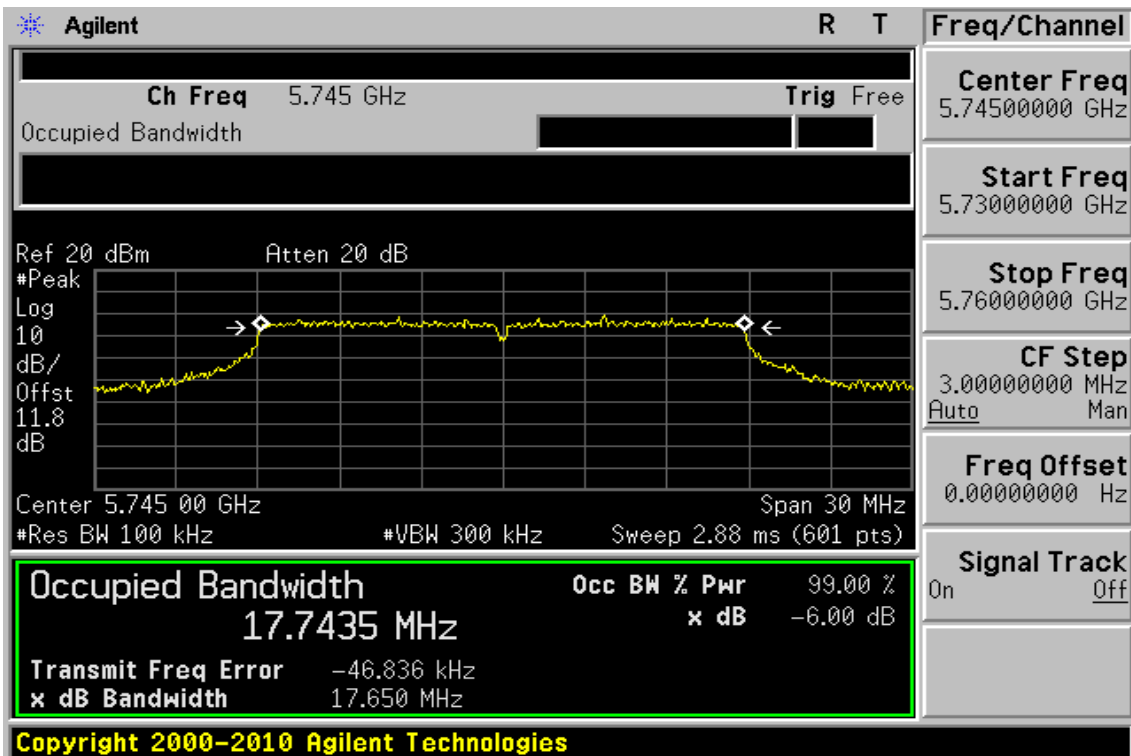
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### 6dB Band Width Test Data CH-High



### 802.11n (5GHz)\_20M

### 6dB Band Width Test Data CH-Low

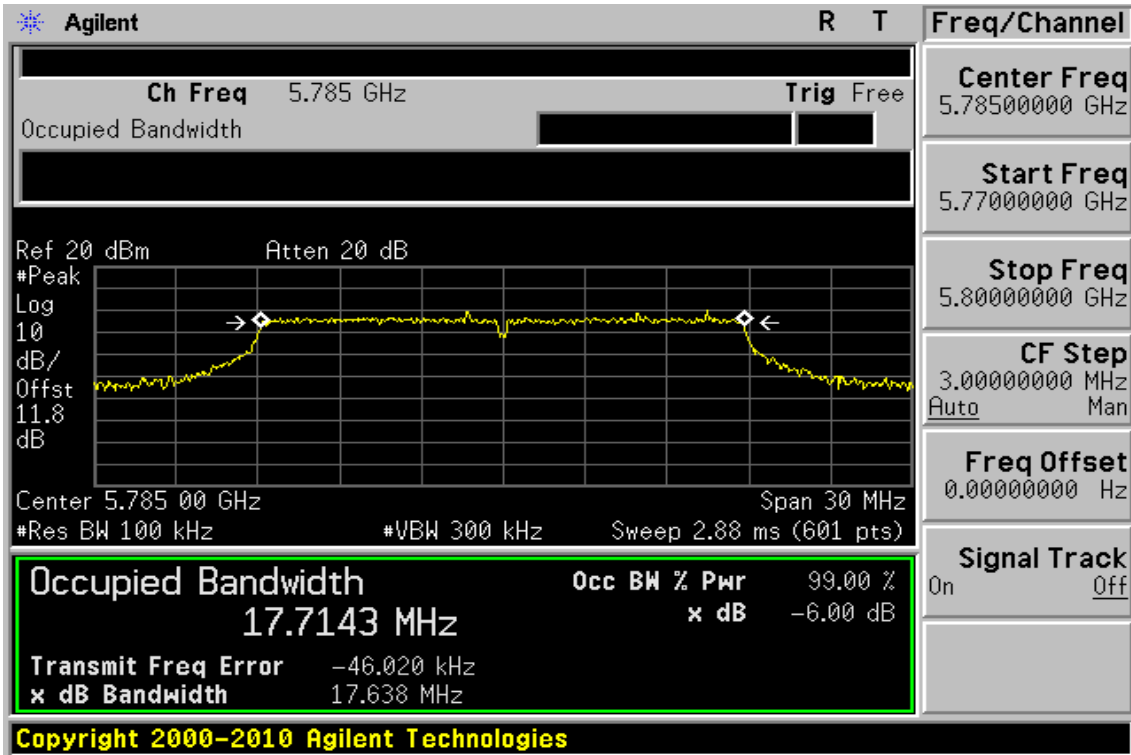


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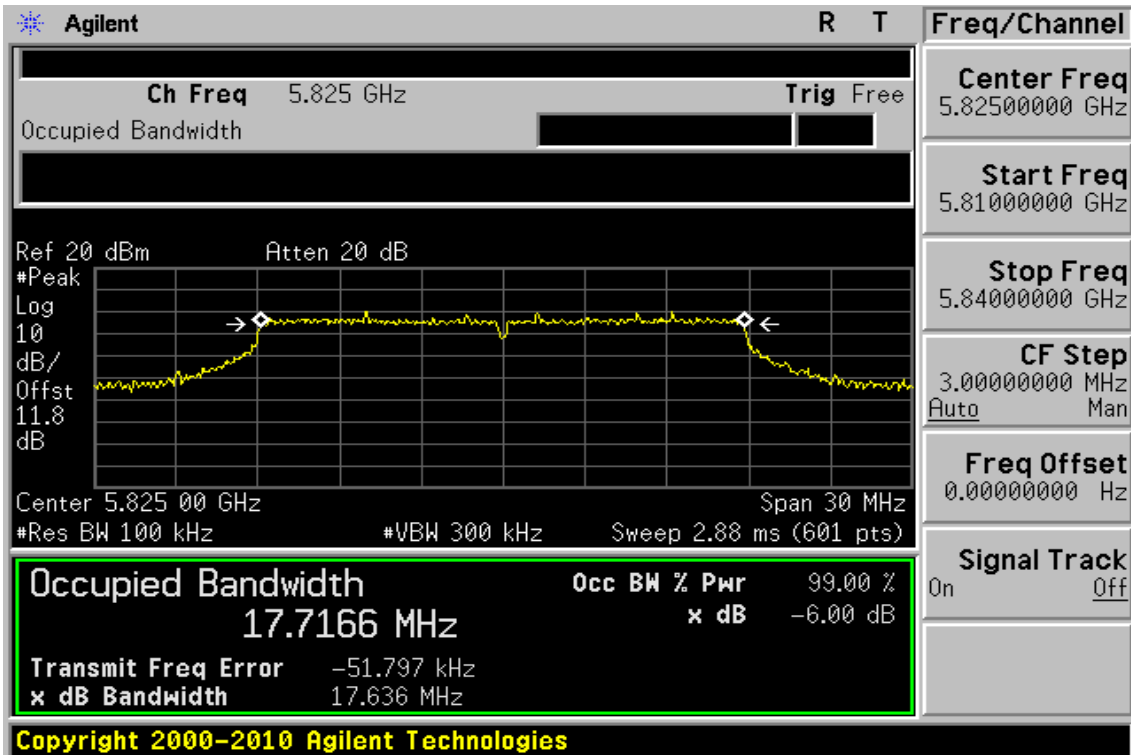
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### 6dB Band Width Test Data CH-Mid



### 6dB Band Width Test Data CH-High



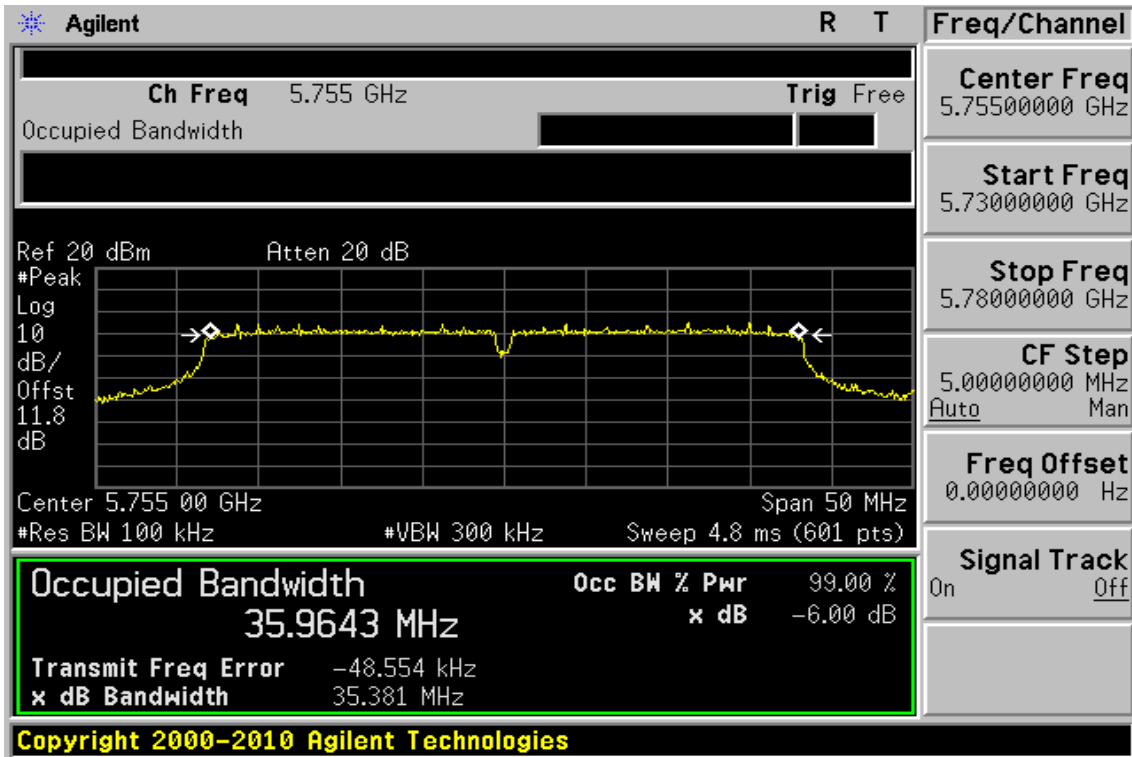
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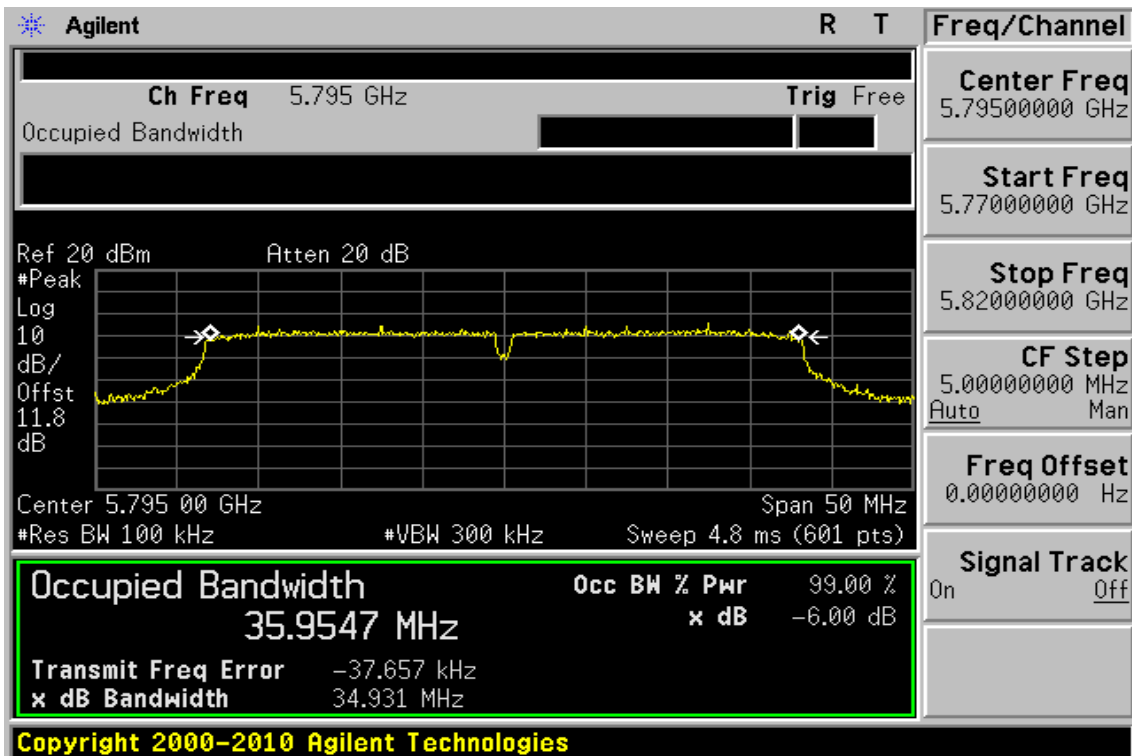
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### 802.11n (5GHz)\_40M

#### 6dB Band Width Test Data CH-Low



#### 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.

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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	04/15/2013	04/14/2014
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	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
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
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	07/15/2012	07/14/2013

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2013	05/18/2014

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

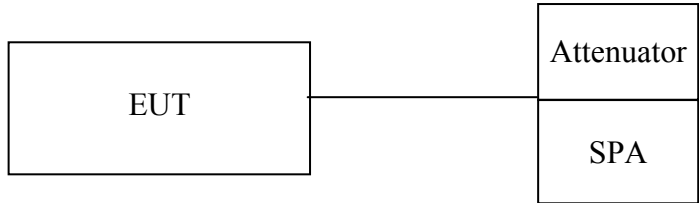
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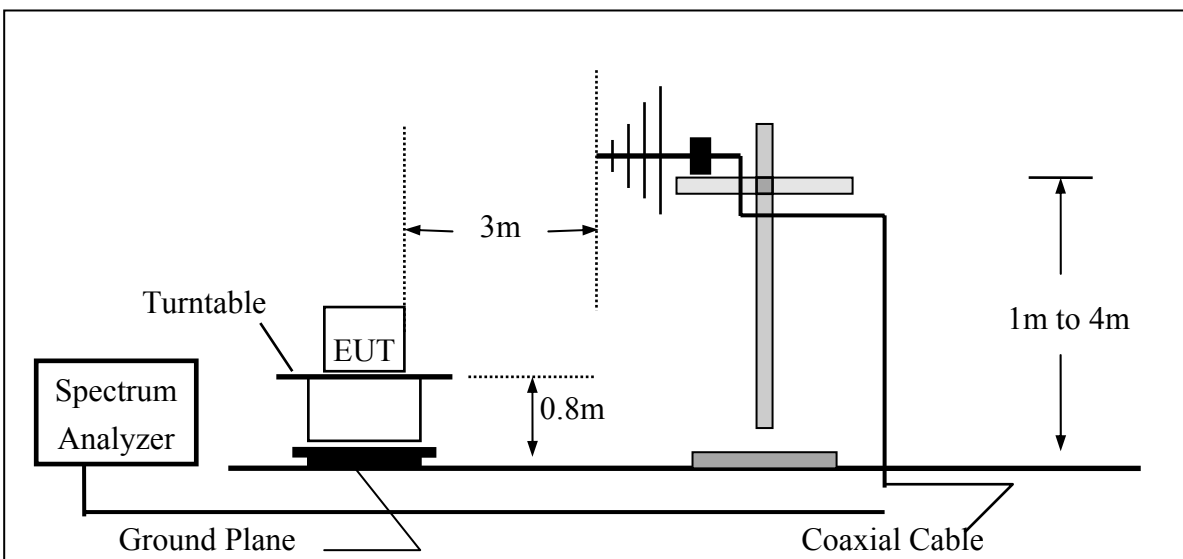
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

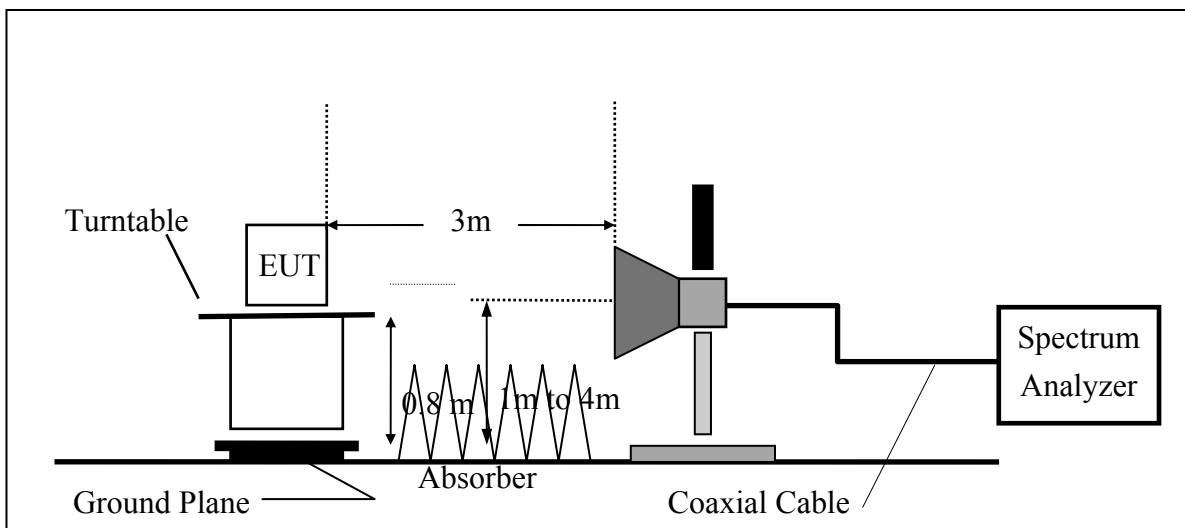


9.3.2 Radiated emission:

(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 11.1 of KDB558074:

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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**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.

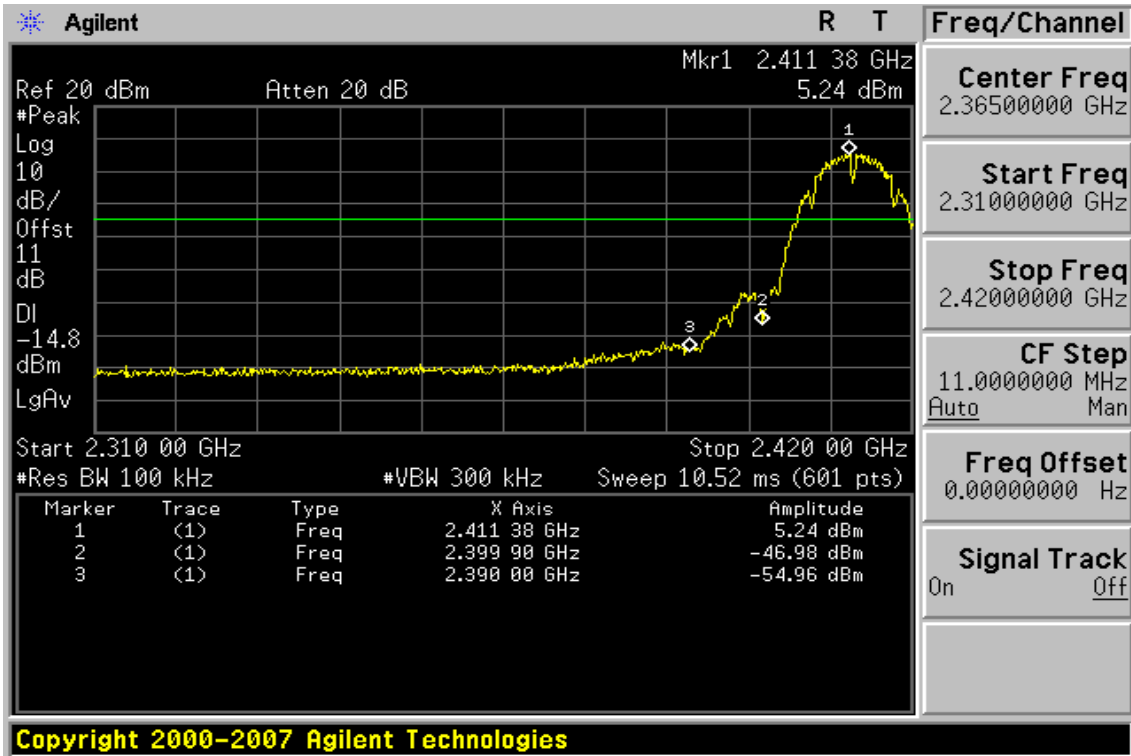
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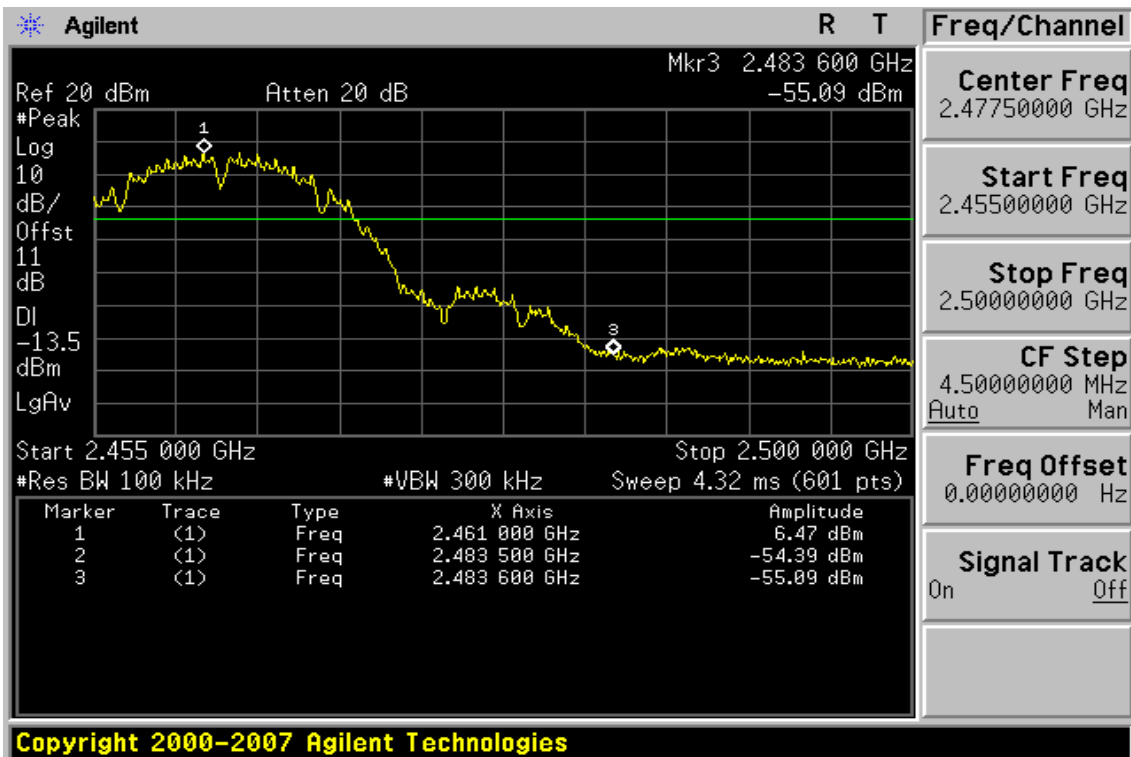
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### 802.11b - Unwanted Emissions into Non-Restricted Frequency Bands

#### Band Edges Test Data CH-Low



#### Band Edges Test Data CH-High



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**Tabular Results:**

**802.11b**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
2.3999	-46.98	5.24	-15.0	Pass
2.4835	-54.39	6.47	-13.5	Pass

Note: Limit = Ref (The highest level of emission) dBm – 20dBm

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**Radiated Emission:**

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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

Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:JJ
EUT Pol.	:E2 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.

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
2388.67	E	Average	37.25	2.12	39.37	54.00	-14.63
2388.67	E	Peak	55.20	2.12	57.32	74.00	-16.68
2390.00	E	Average	35.09	2.12	37.21	54.00	-16.79
2390.00	E	Peak	51.41	2.12	53.53	74.00	-20.47

Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:JJ
EUT Pol.	:E2 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.

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
2387.67	E	Average	42.00	2.72	44.72	54.00	-9.28
2387.67	E	Peak	61.24	2.72	63.96	74.00	-10.04
2390.00	E	Average	40.98	2.74	43.72	54.00	-10.28
2390.00	E	Peak	58.00	2.74	60.74	74.00	-13.26

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Operation Band :802.11 b Test Date :2013-05-27  
 Fundamental Frequency :2462 MHz power 15 dBm Temp./Humi. :23deg\_C/52RH  
 Operation Mode :Band edge HIGH Engineer :JJ  
 EUT Pol. :E2 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.

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	37.88	2.53	40.41	54.00	-13.59
2483.50	E	Peak	53.12	2.53	55.65	74.00	-18.35
2486.76	E	Average	38.83	2.53	41.36	54.00	-12.64
2486.76	E	Peak	53.94	2.53	56.47	74.00	-17.53

Operation Band :802.11 b Test Date :2013-05-27  
 Fundamental Frequency :2462 MHz power 15 dBm Temp./Humi. :23deg\_C/52RH  
 Operation Mode :Band edge HIGH Engineer :JJ  
 EUT Pol. :E2 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.

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	37.82	3.56	41.38	54.00	-12.62
2483.50	E	Peak	51.52	3.56	55.08	74.00	-18.92
2486.70	E	Average	38.45	3.57	42.02	54.00	-11.98
2486.70	E	Peak	53.82	3.57	57.39	74.00	-16.61

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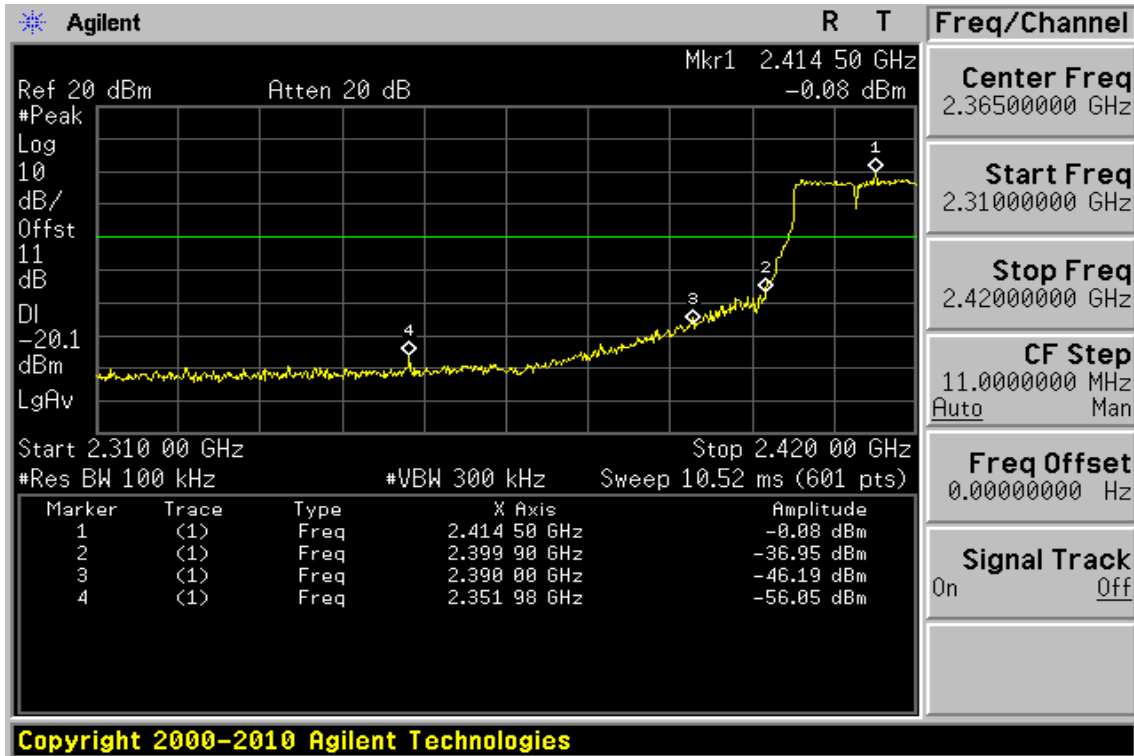
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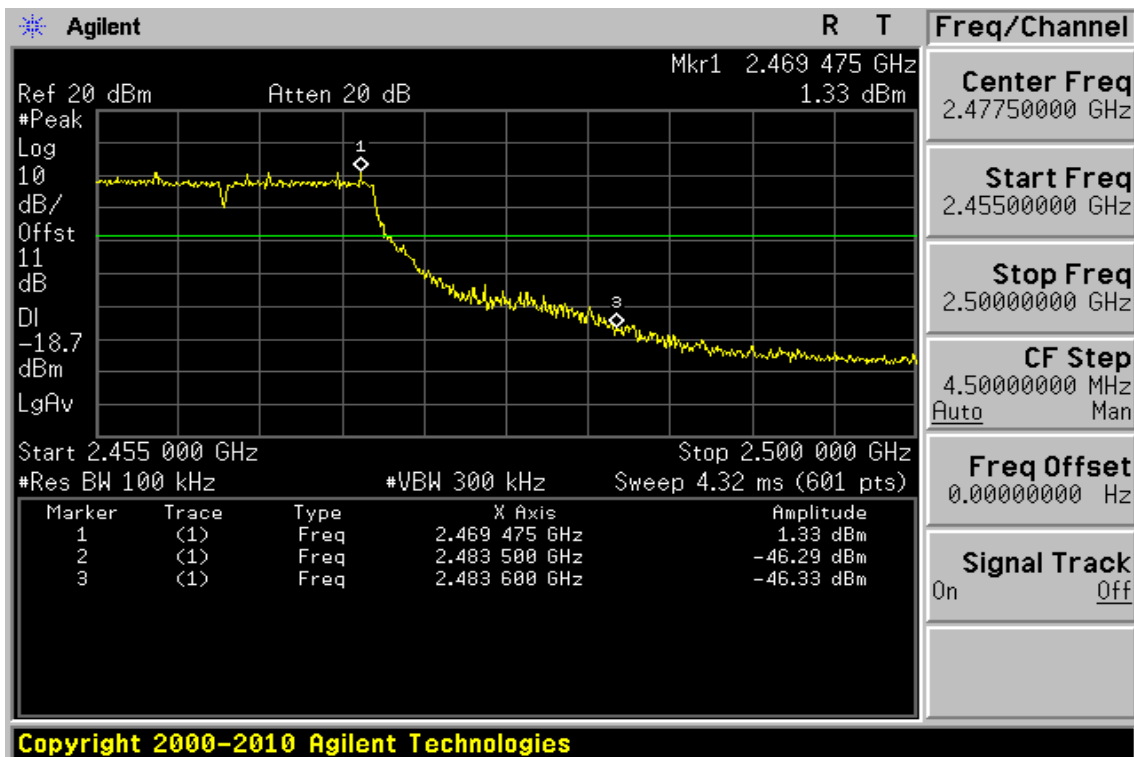


### 802.11g - Unwanted Emissions into Non-Restricted Frequency Bands

#### Band Edges Test Data CH-Low



#### Band Edges Test Data CH-High



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**Tabular Results:**

**802.11g**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
2.3999	-36.95	-0.08	-20.10	Pass
2.4836	-46.33	1.33	-18.70	Pass

Note: Limit = Ref (The highest level of emission) dBm – 20dBm

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**Radiated Emission:**

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

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

Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 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.

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	40.33	2.12	42.45	54.00	-11.55
2390.00	E	Peak	57.86	2.12	59.98	74.00	-14.02

Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 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.

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	50.30	2.74	53.04	54.00	-0.96
2390.00	E	Peak	67.60	2.74	70.34	74.00	-3.66

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Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 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.

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	37.79	2.53	40.32	54.00	-13.68
2483.50	E	Peak	52.57	2.53	55.10	74.00	-18.90

Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 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.

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	41.08	3.56	44.64	54.00	-9.36
2483.50	E	Peak	59.74	3.56	63.30	74.00	-10.70

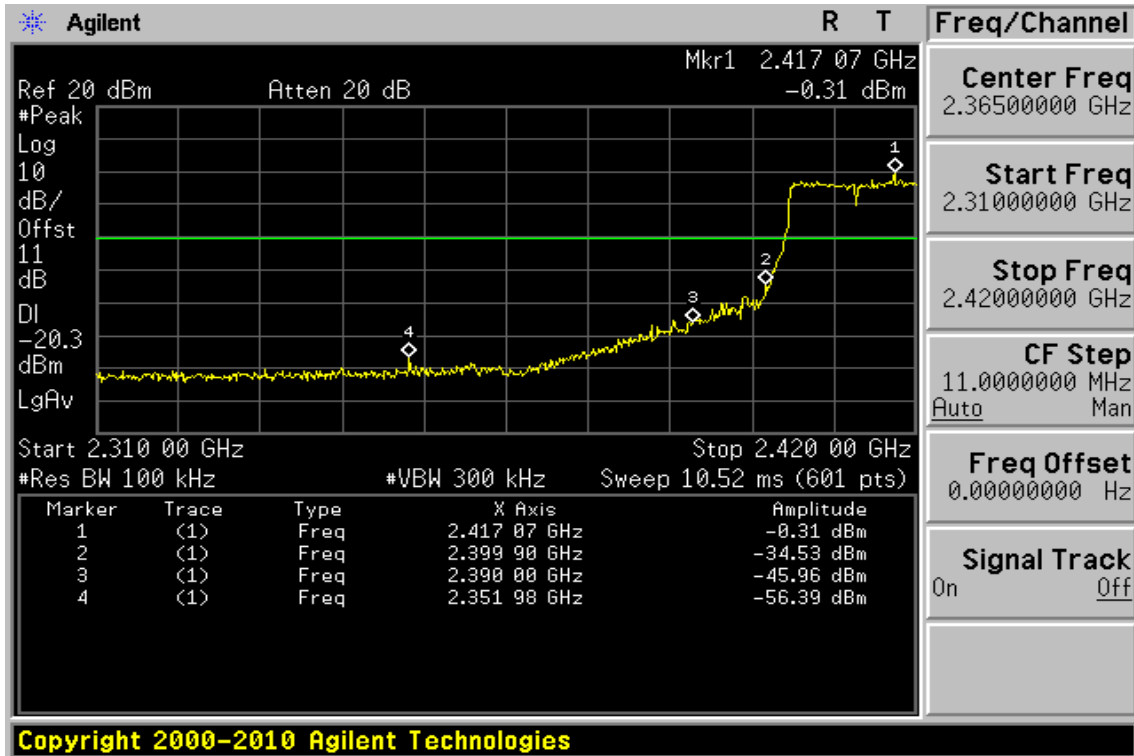
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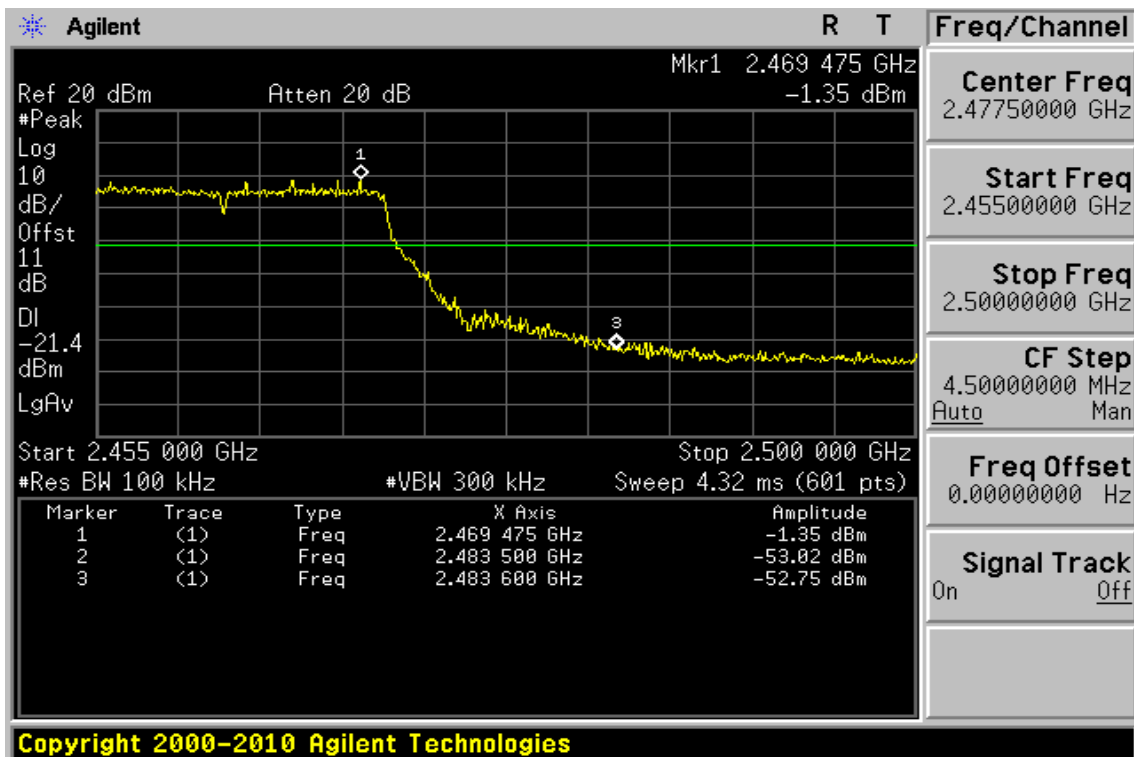
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### 802.11n\_20M- Unwanted Emissions into Non-Restricted Frequency Bands

#### Band Edges Test Data CH-Low



#### Band Edges Test Data CH-High



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**802.11n\_20MHz**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
2.3999	-34.53	-0.31	-20.30	Pass
2.4836	-52.75	-1.35	-21.40	Pass

Note: Limit = Ref (The highest level of emission) dBm – 20dBm

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**Radiated Emission: 802.11 n\_20M mode**

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I (Unwanted Emissions into Restricted Frequency Bands): 802.11 n\_20M mode

Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 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.

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	41.17	2.12	43.29	54.00	-10.71
2390.00	E	Peak	57.17	2.12	59.29	74.00	-14.71

Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 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.

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	50.42	2.74	53.16	54.00	-0.84
2390.00	E	Peak	66.03	2.74	68.77	74.00	-5.23

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 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.

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	39.52	2.53	42.05	54.00	-11.95
2483.50	E	Peak	55.54	2.53	58.07	74.00	-15.93

Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 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.

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	41.98	3.56	45.54	54.00	-8.46
2483.50	E	Peak	58.74	3.56	62.30	74.00	-11.70

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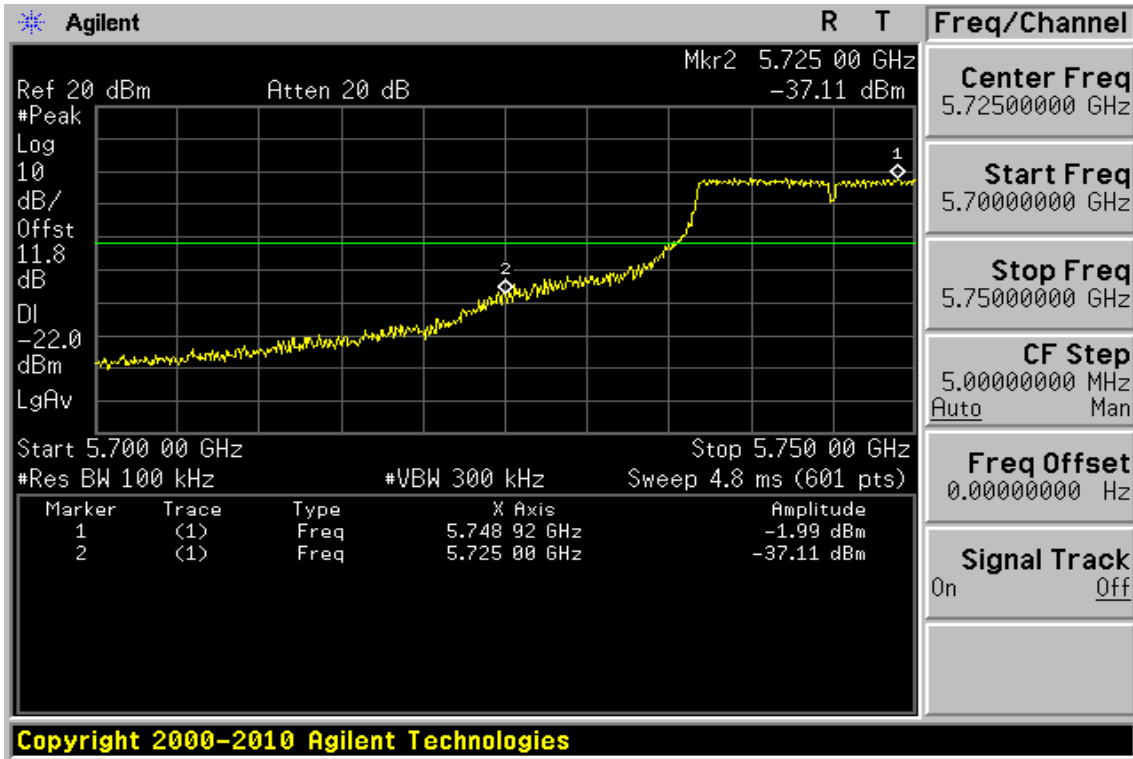
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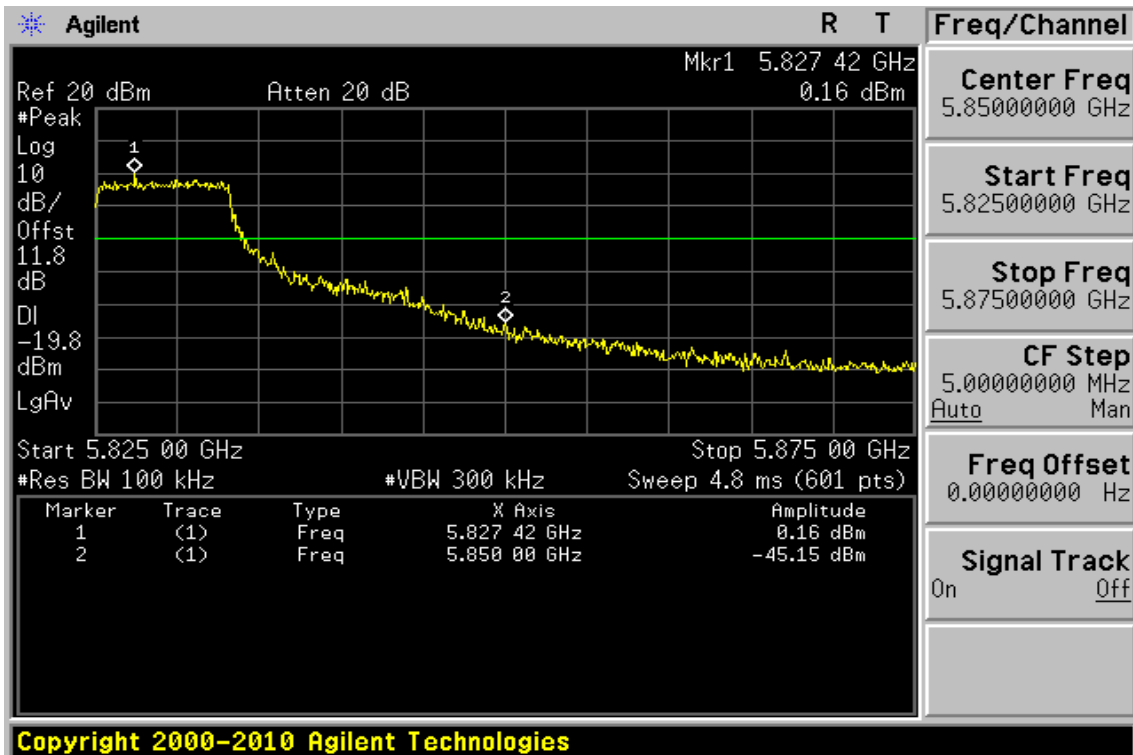


### 802.11a - Unwanted Emissions into Non-Restricted Frequency Bands

#### Band Edges Test Data CH-Low



#### Band Edges Test Data CH-High

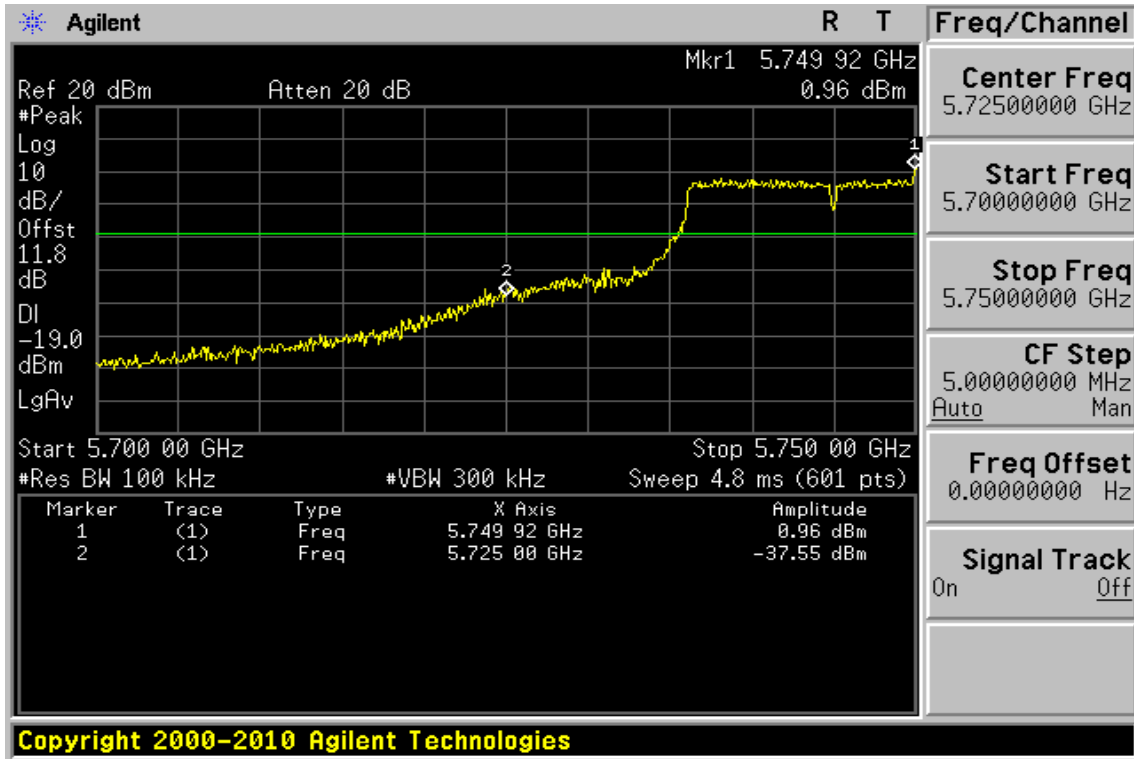


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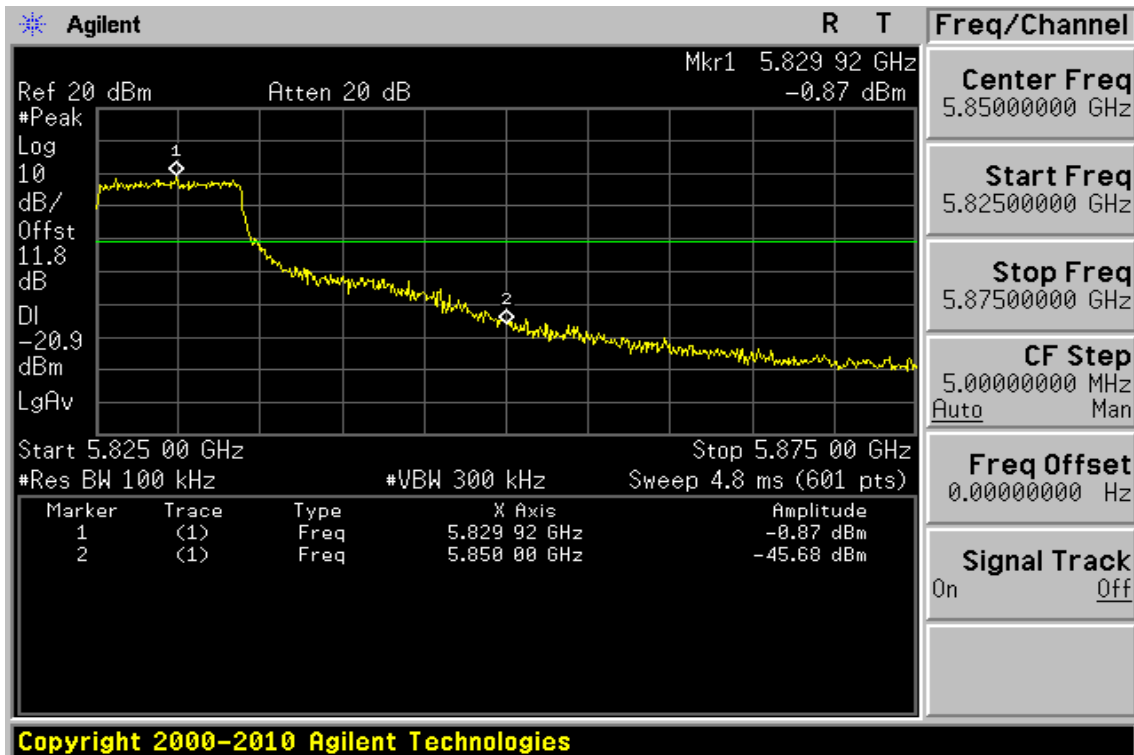
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### 802.11n (5GHz)\_20M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



### Band Edges Test Data CH-High

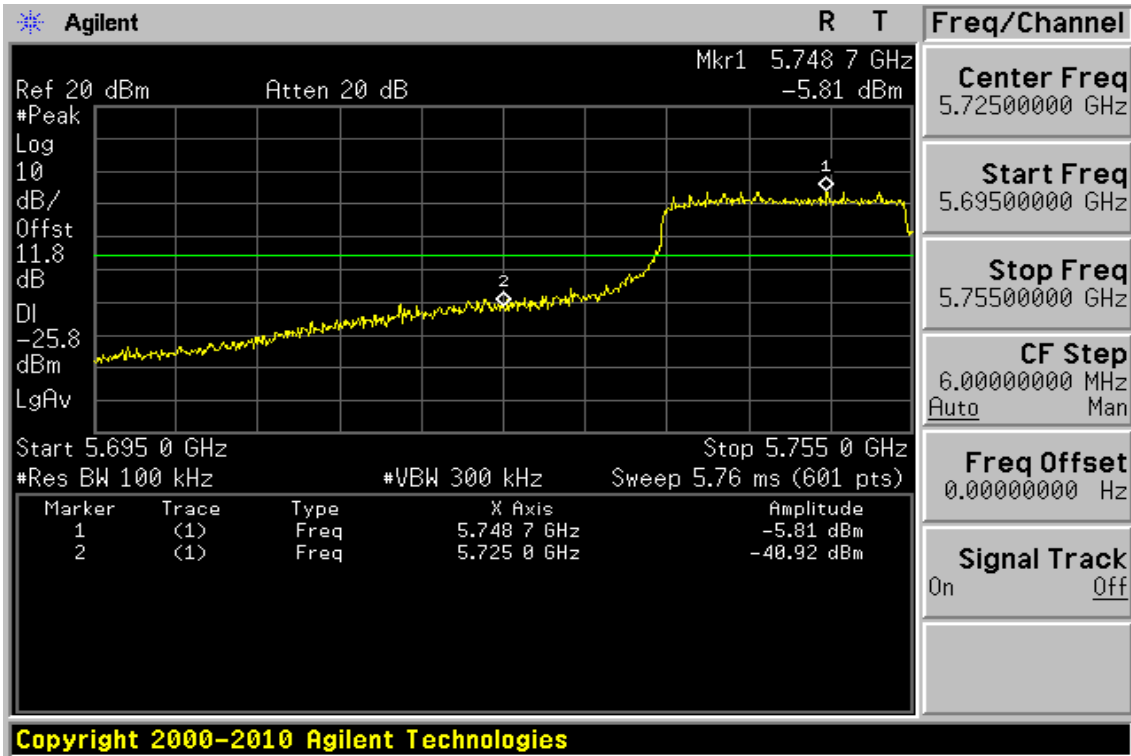


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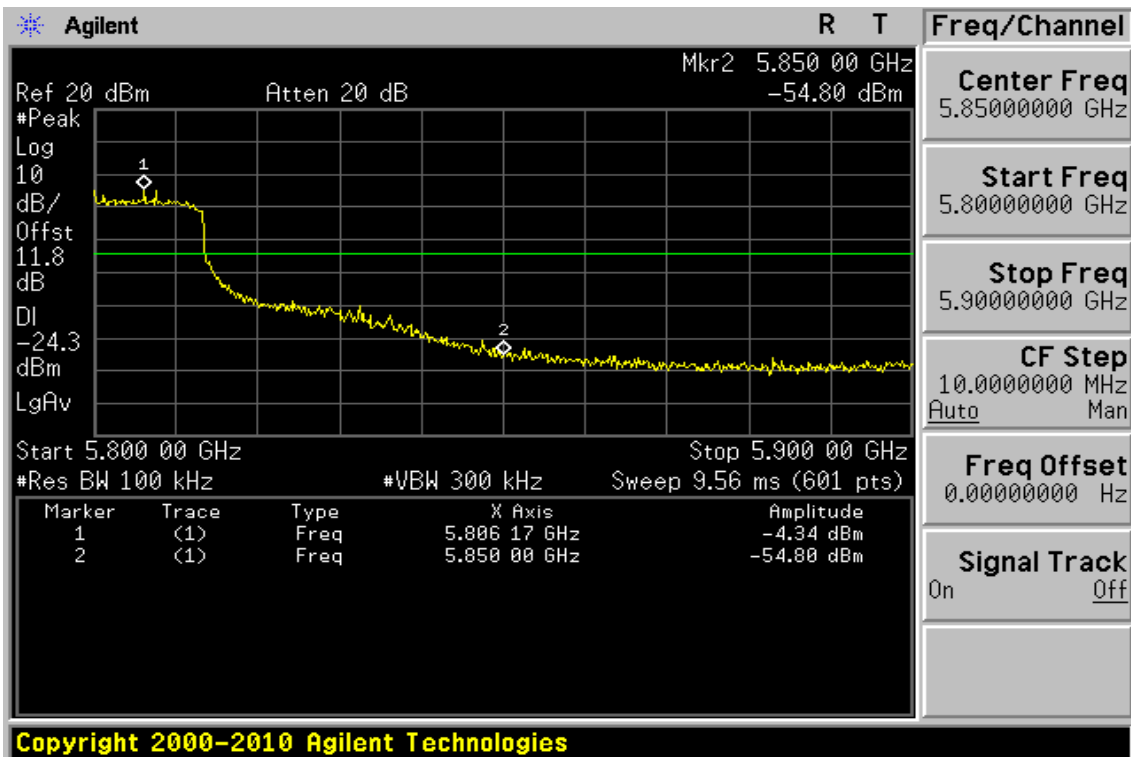
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### 802.11n (5GHz)\_40M - Unwanted Emissions into Non-Restricted Frequency Bands Band Edges Test Data CH-Low



### Band Edges Test Data CH-High



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**Tabular Results:**

**802.11a**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
5.7250	-37.11	-1.99	-22.00	Pass
5.8500	-45.15	0.16	-19.80	Pass

**802.11n\_20M**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
5.7250	-37.55	0.96	-19.00	Pass
5.8500	-45.68	-0.87	-20.90	Pass

**802.11n\_40M**

Frequency (GHz)	Results (dBm)	Ref (dBm)	Limit (dBm)	Verdict
5.7250	-40.92	-5.81	-25.80	Pass
5.8500	-54.80	-4.34	-24.30	Pass

Note: Limit = Ref (The highest level of emission) dBm – 20dBm

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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.

**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.

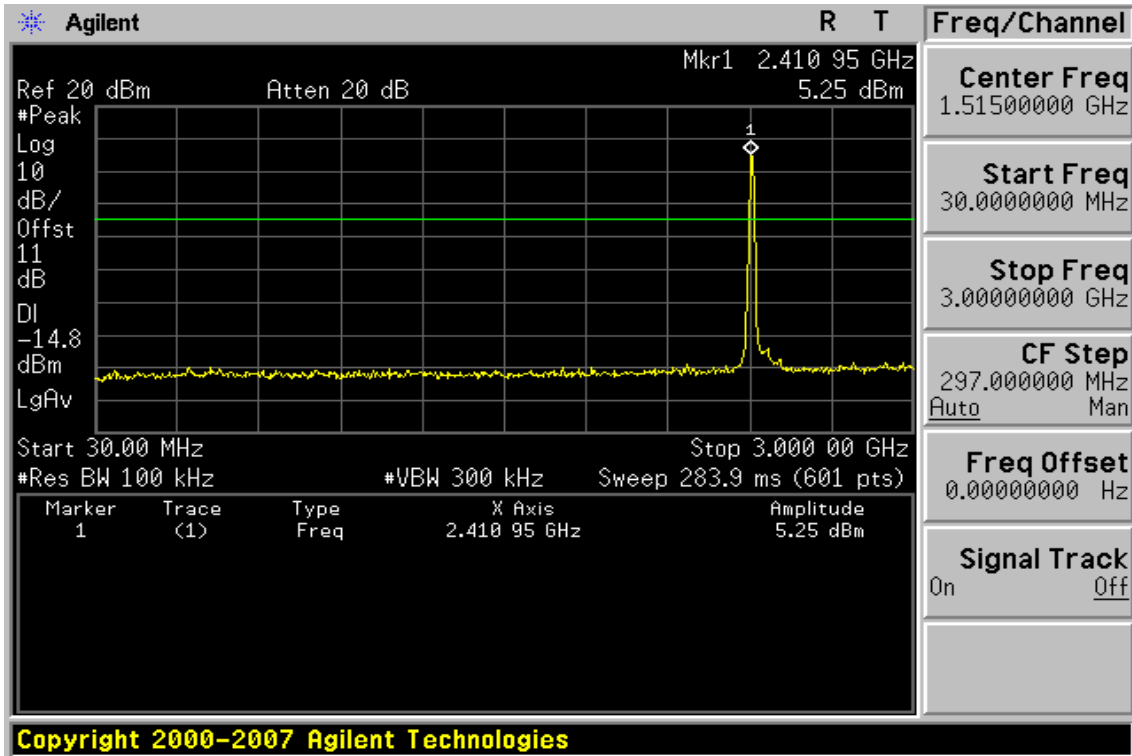
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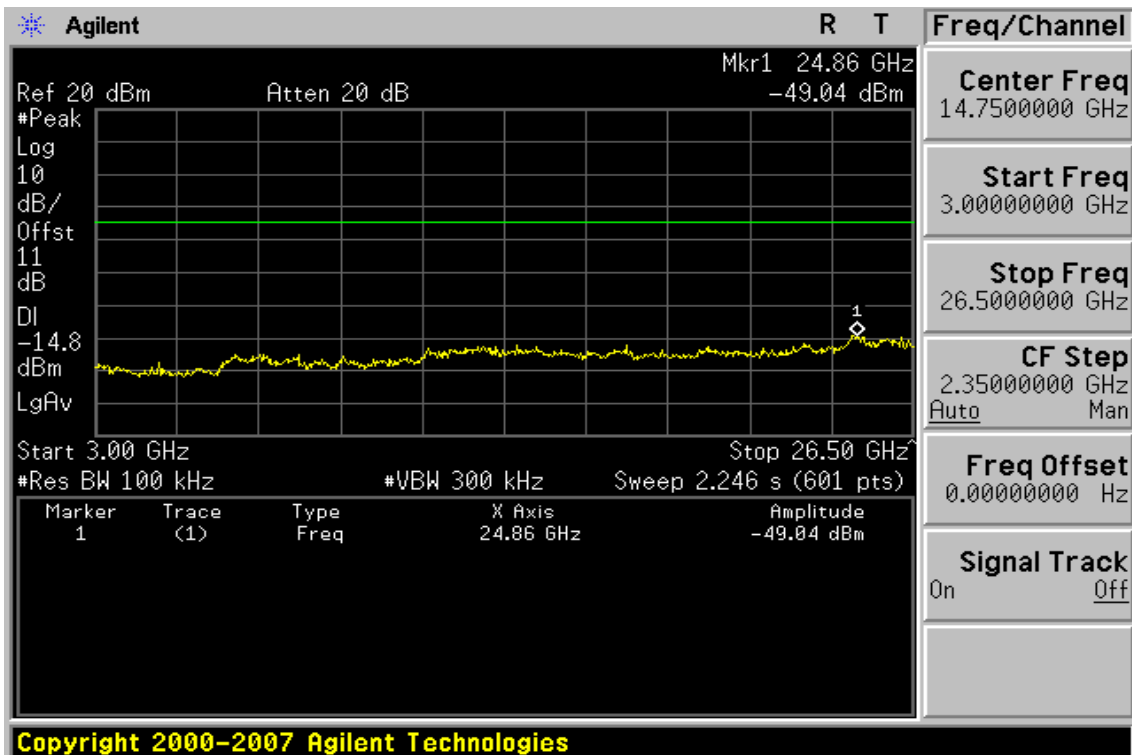
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### Conducted Spurious Emission Measurement Result (802.11b)

#### Ch Low 30MHz – 3GHz



#### Ch Low 3GHz – 26.5GHz

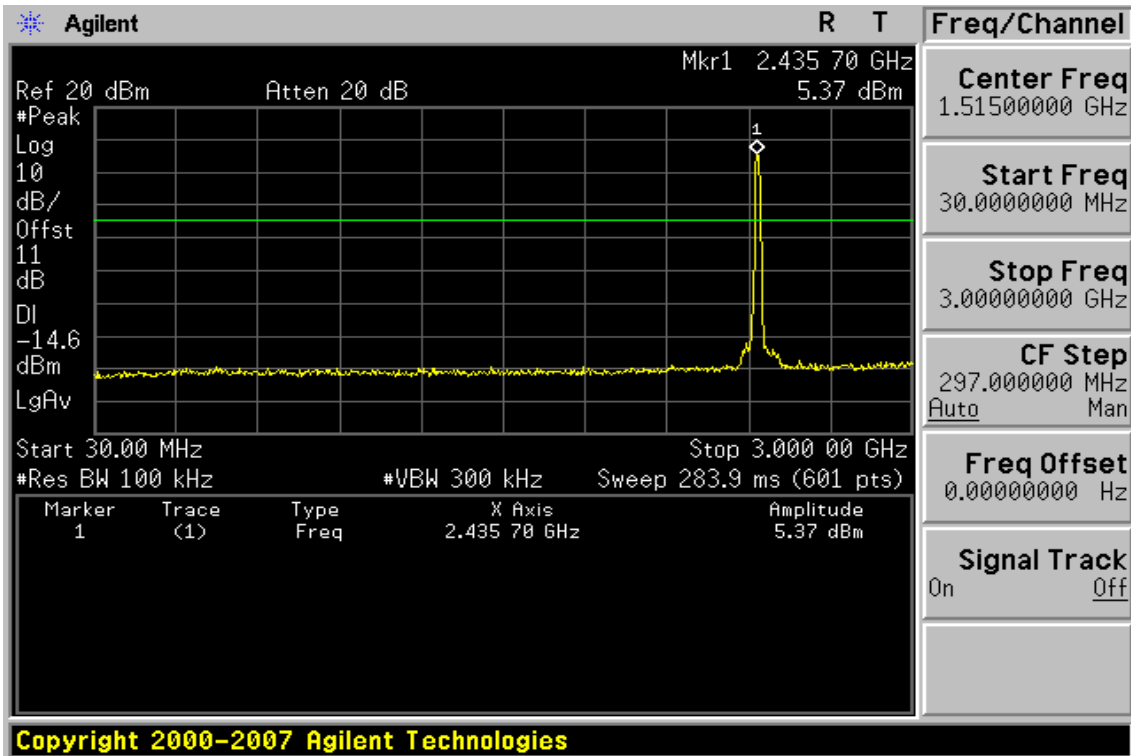


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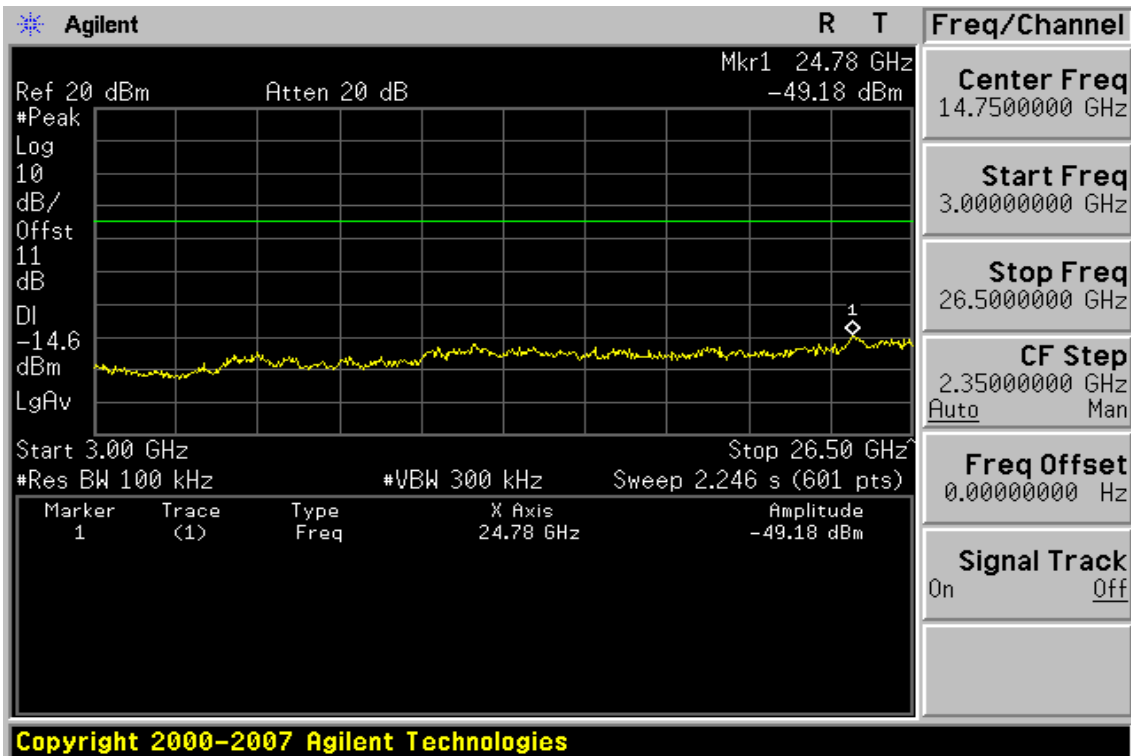
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



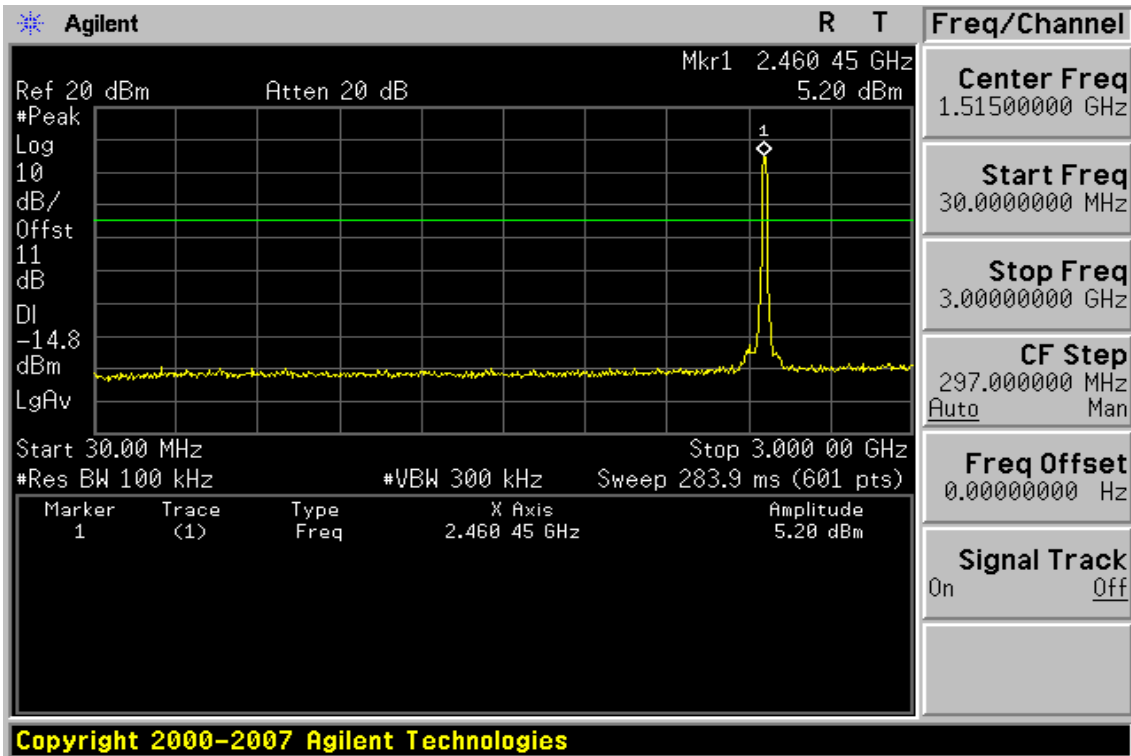
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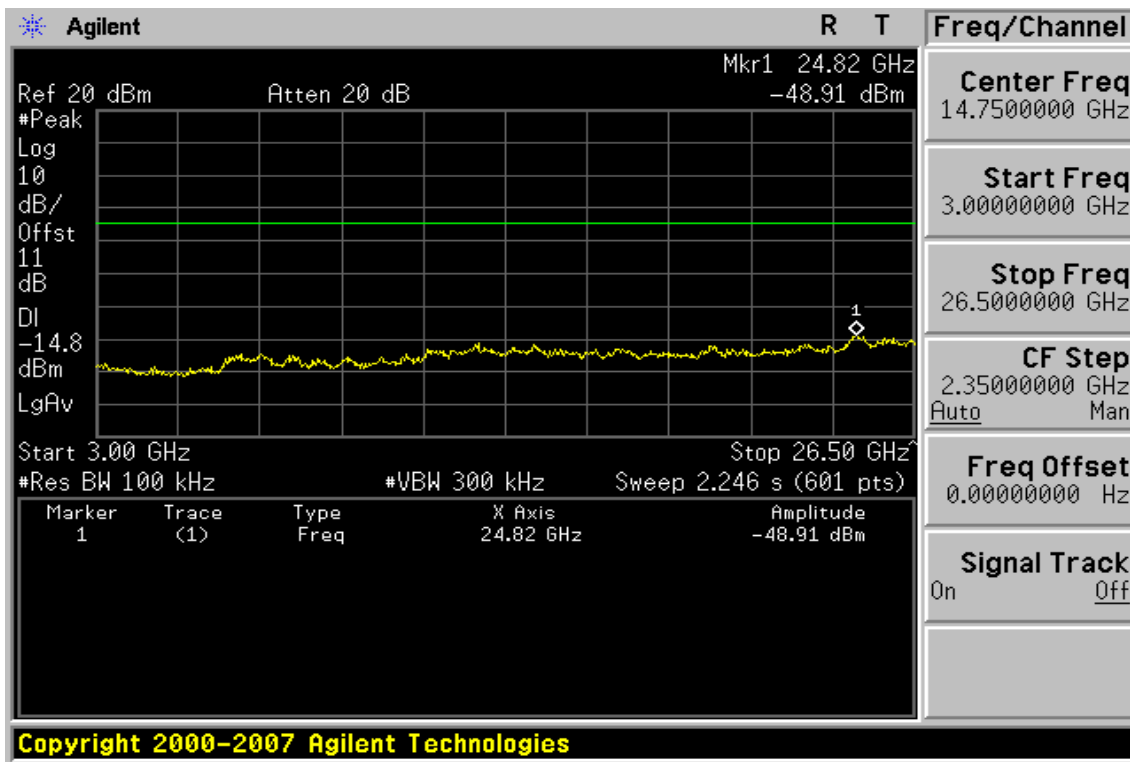
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**Ch High 30MHz – 3GHz**



**Ch High 3GHz – 26.5GHz**



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**Tabular Results:**

**Out of Band emission at antenna terminals – 802.11b**

Fundamental Frequency 2412 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
2412.00	Ref	5.25	---	---
<30	S	---	-14.80	---
30-1000	S	---	-14.80	---
4824.00	H	---	-14.80	---
7236.00	H	---	-14.80	---
9648.00	H	---	-14.80	---
12060.00	H	---	-14.80	---
14472.00	H	---	-14.80	---
16884.00	H	---	-14.80	---
19296.00	H	---	-14.80	---
24120.00	H	---	-14.80	---
24860.00	S	-49.04	-14.80	34.24

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 2437 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
2437.00	Ref	5.37	---	---
<30	S	---	-14.60	---
30-1000	S	---	-14.60	---
4874.00	H	---	-14.60	---
7311.00	H	---	-14.60	---
9748.00	H	---	-14.60	---
12185.00	H	---	-14.60	---
14622.00	H	---	-14.60	---
17059.00	H	---	-14.60	---
19496.00	H	---	-14.60	---
21933.00	H	---	-14.60	---
24370.00	H	---	-14.60	---
24780.00	S	-49.18	-14.60	34.58

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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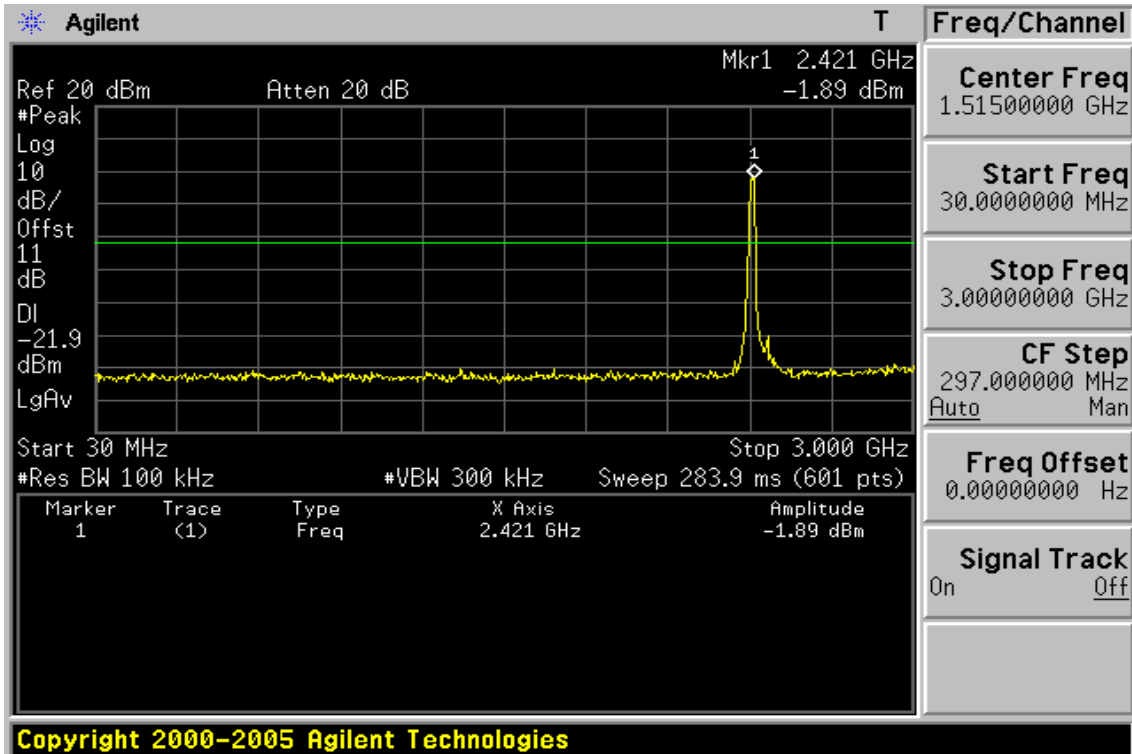
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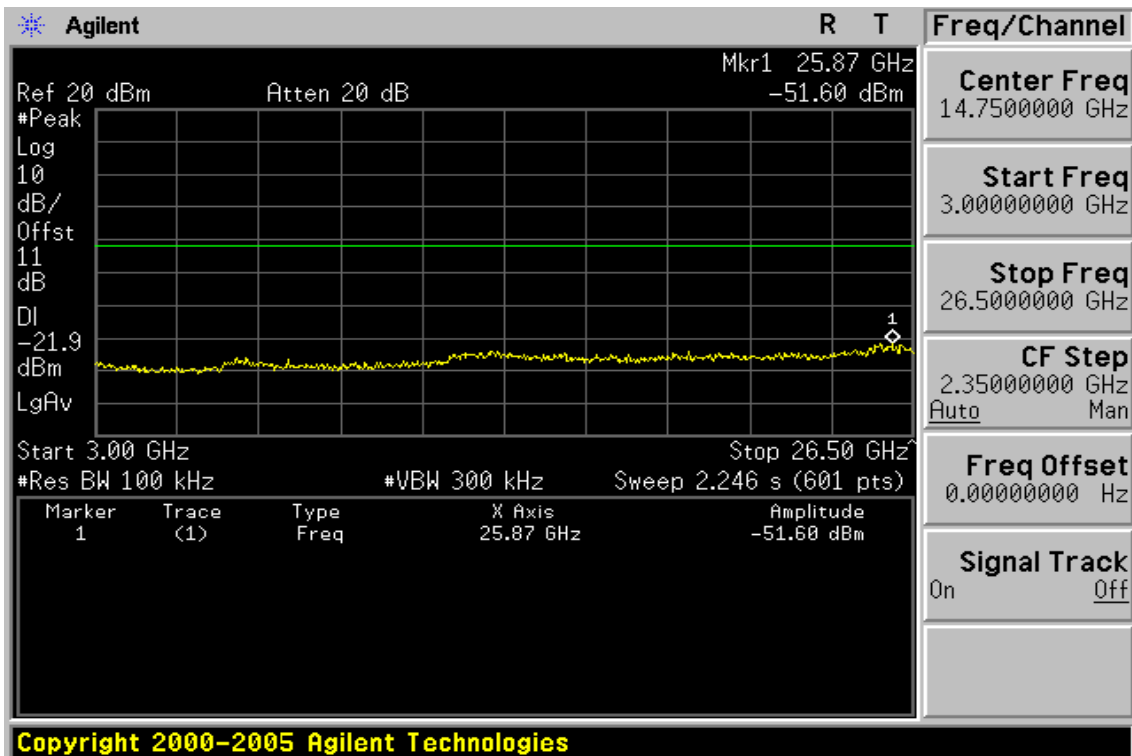


### Conducted Spurious Emission Measurement Result (802.11g)

#### Ch Low 30MHz – 3GHz



#### Ch Low 3GHz – 26.5GHz

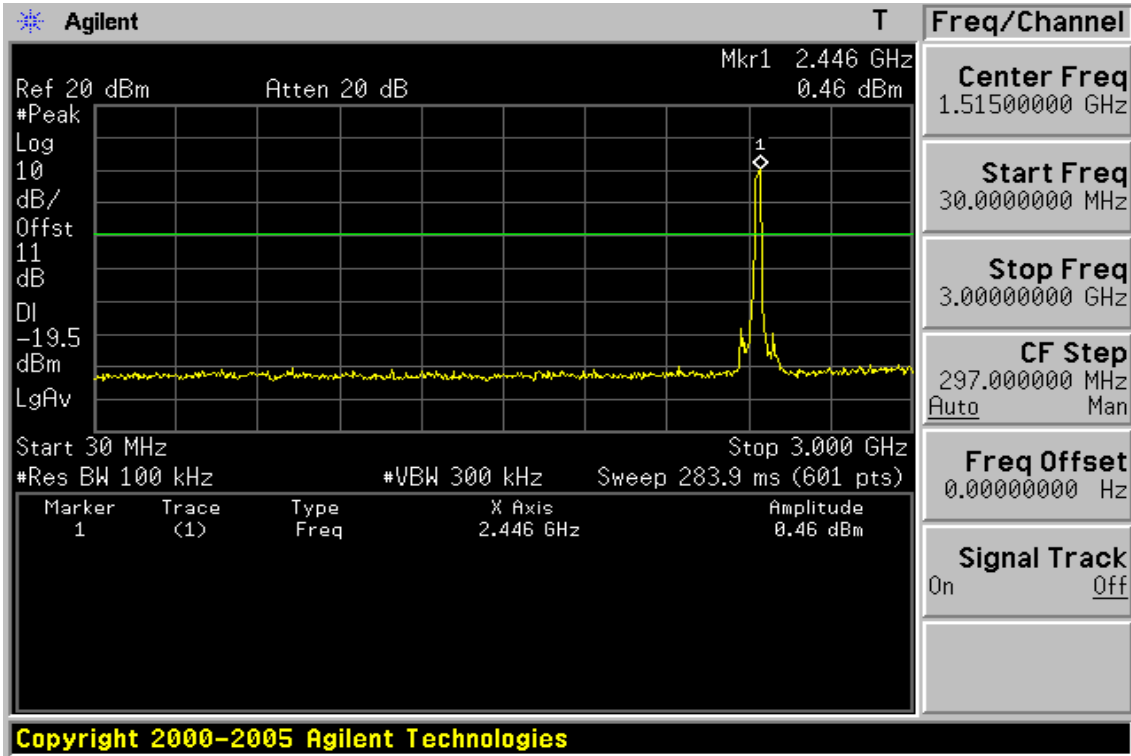


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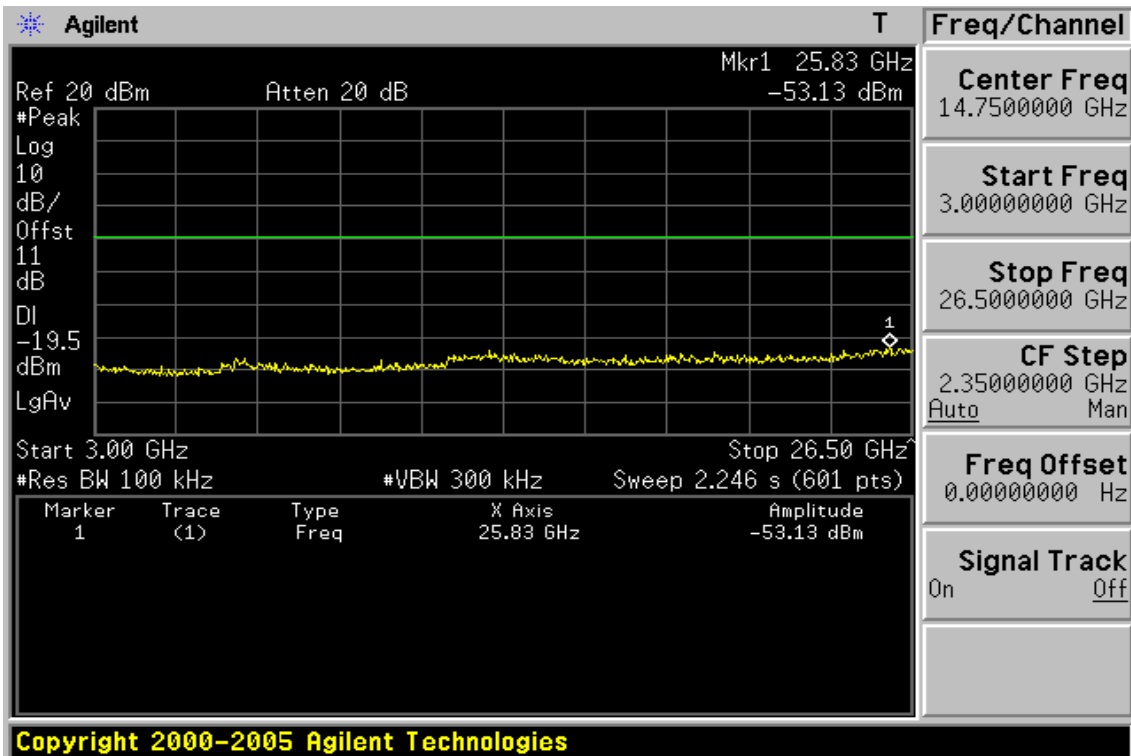
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

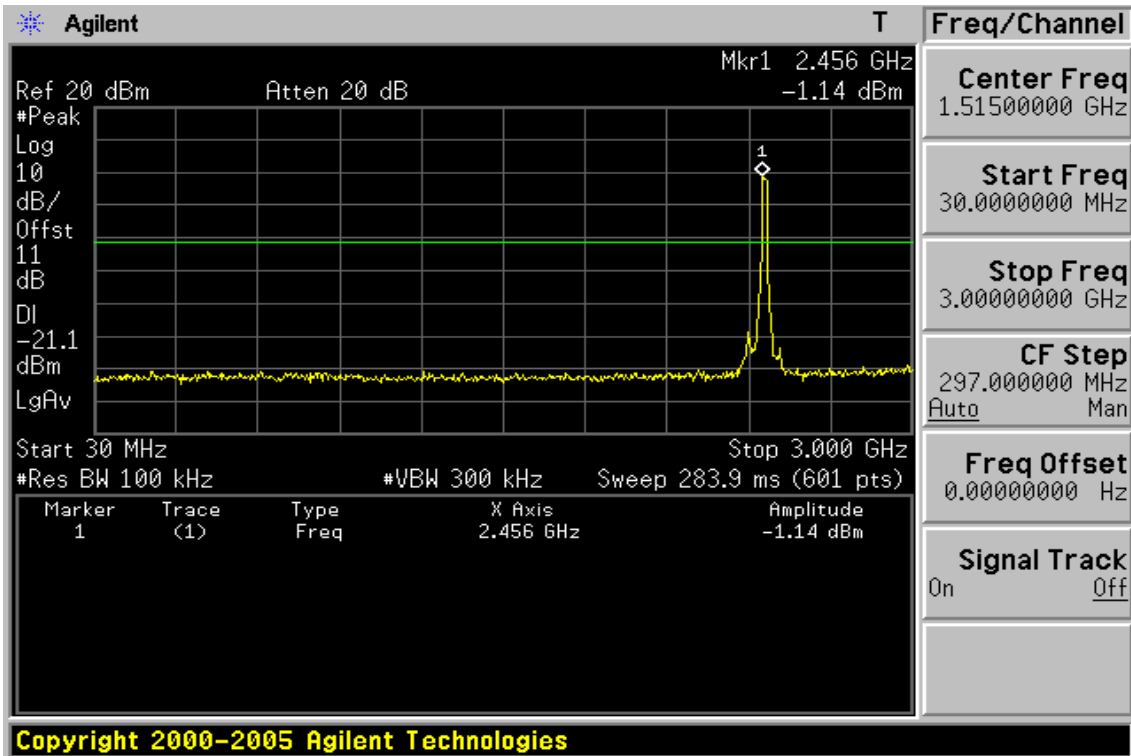


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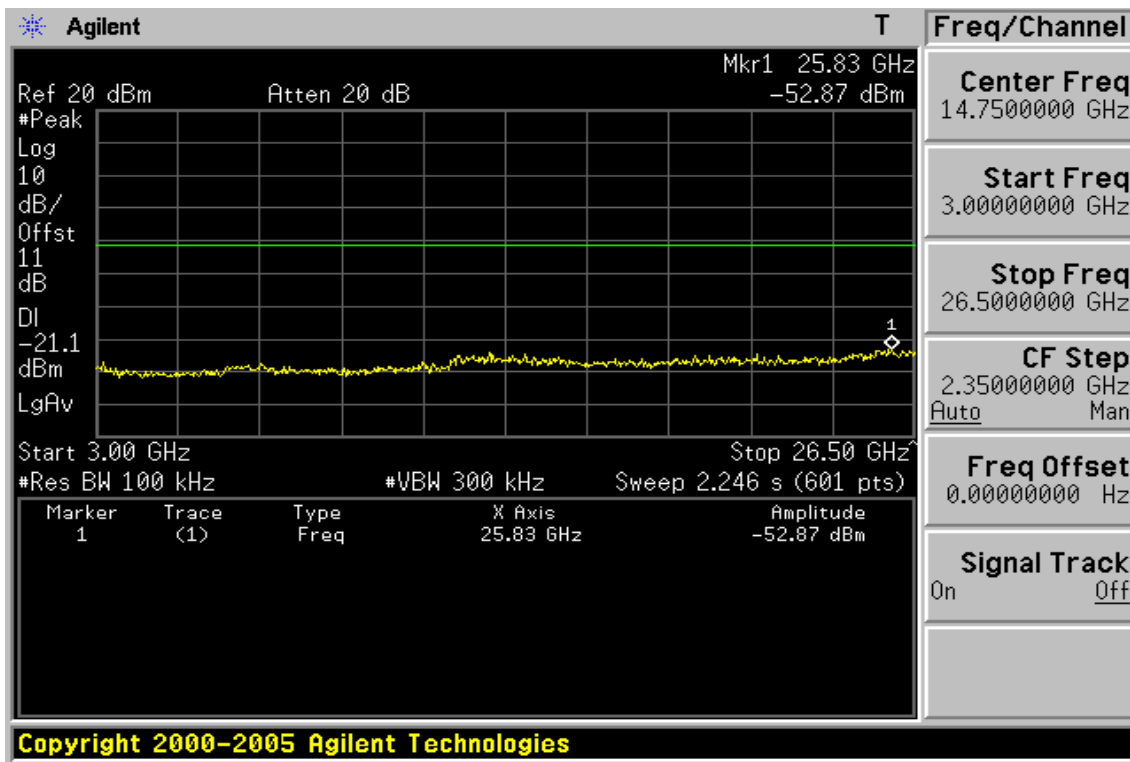
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**Ch High 30MHz – 3GHz**



**Ch High 3GHz – 26.5GHz**



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**Tabular Results:**

**Out of Band emission at antenna terminals – 802.11g**

Fundamental Frequency 2412 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
2412.00	Ref	-1.89	---	---
<30	S	---	-21.90	---
30-1000	S	---	-21.90	---
4824.00	H	---	-21.90	---
7236.00	H	---	-21.90	---
9648.00	H	---	-21.90	---
12060.00	H	---	-21.90	---
14472.00	H	---	-21.90	---
16884.00	H	---	-21.90	---
19296.00	H	---	-21.90	---
24120.00	H	---	-21.90	---
25870.00	S	-51.6	-21.90	29.70

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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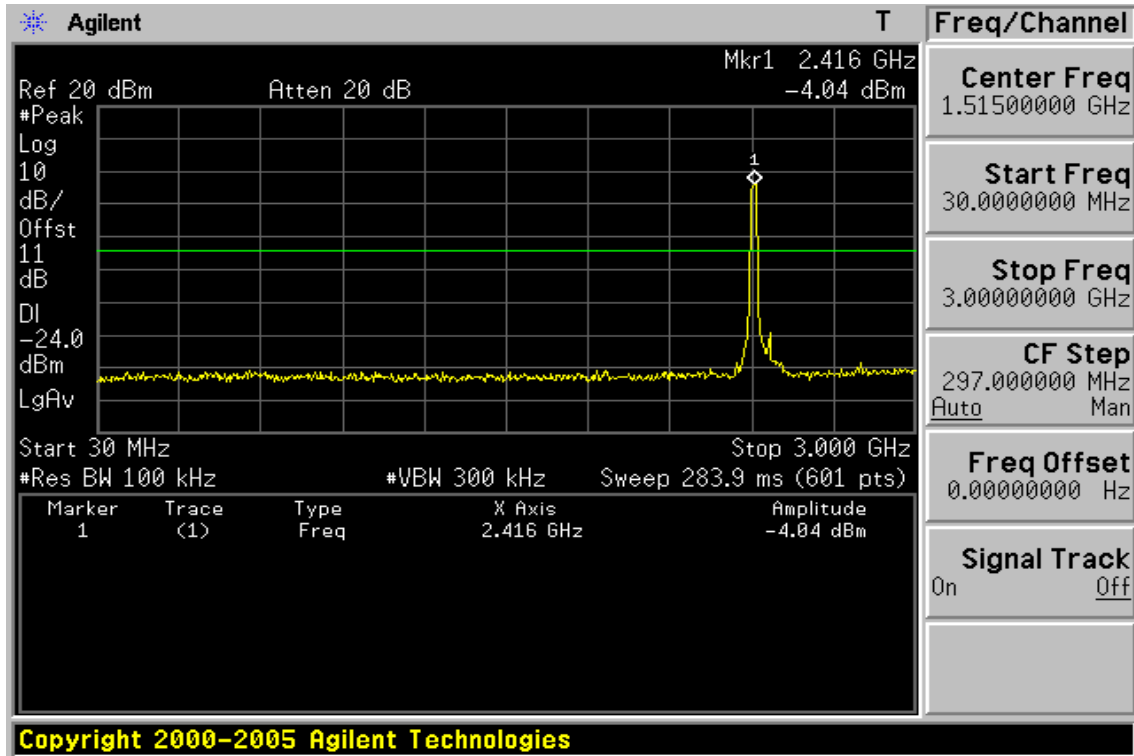




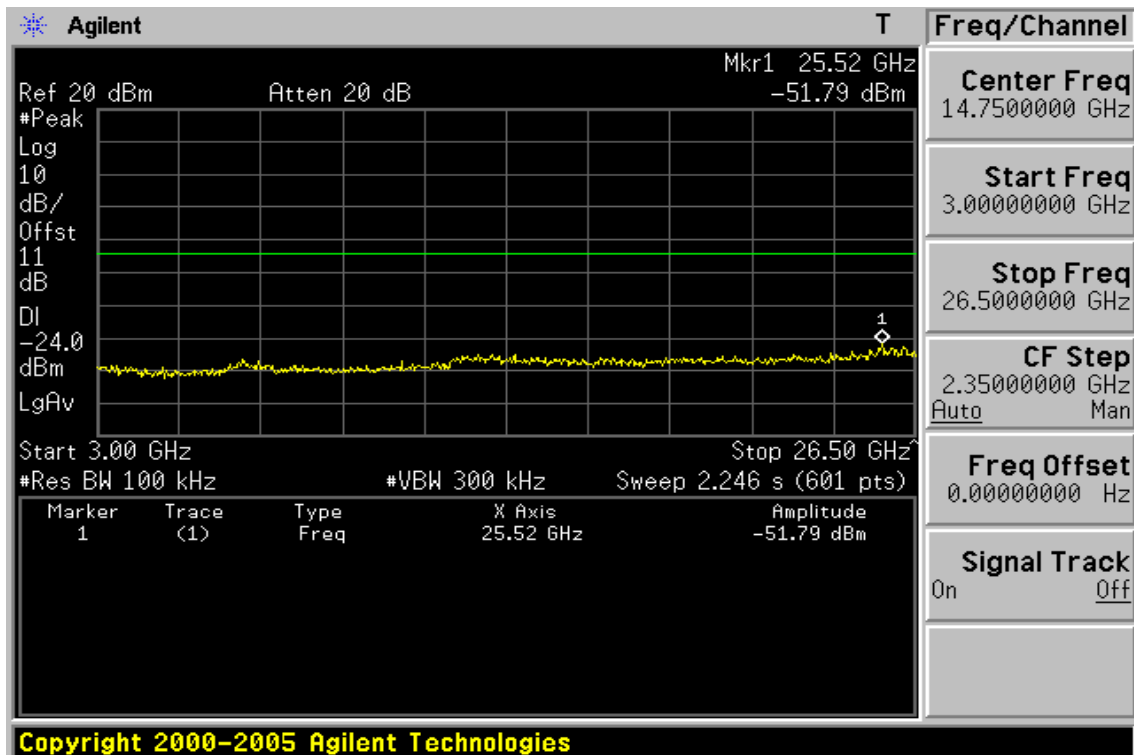


### Conducted Spurious Emission Measurement Result (802.11n\_20M)

#### Ch Low 30MHz – 3GHz



#### Ch Low 3GHz – 26.5GHz

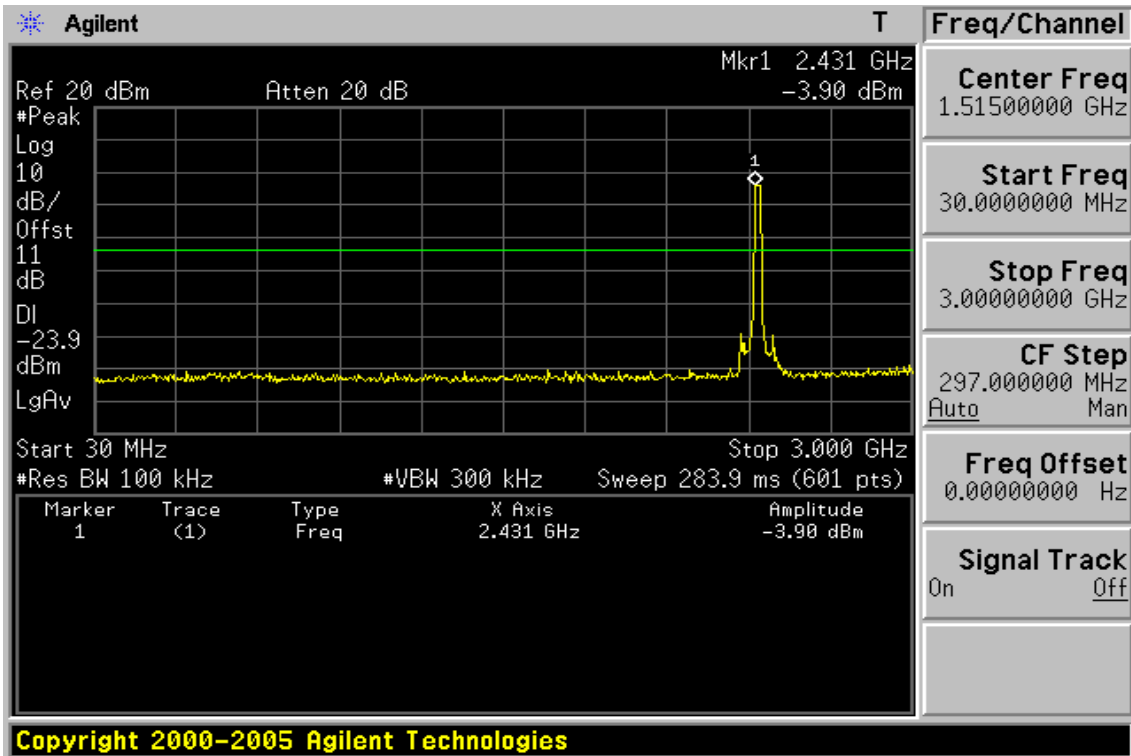


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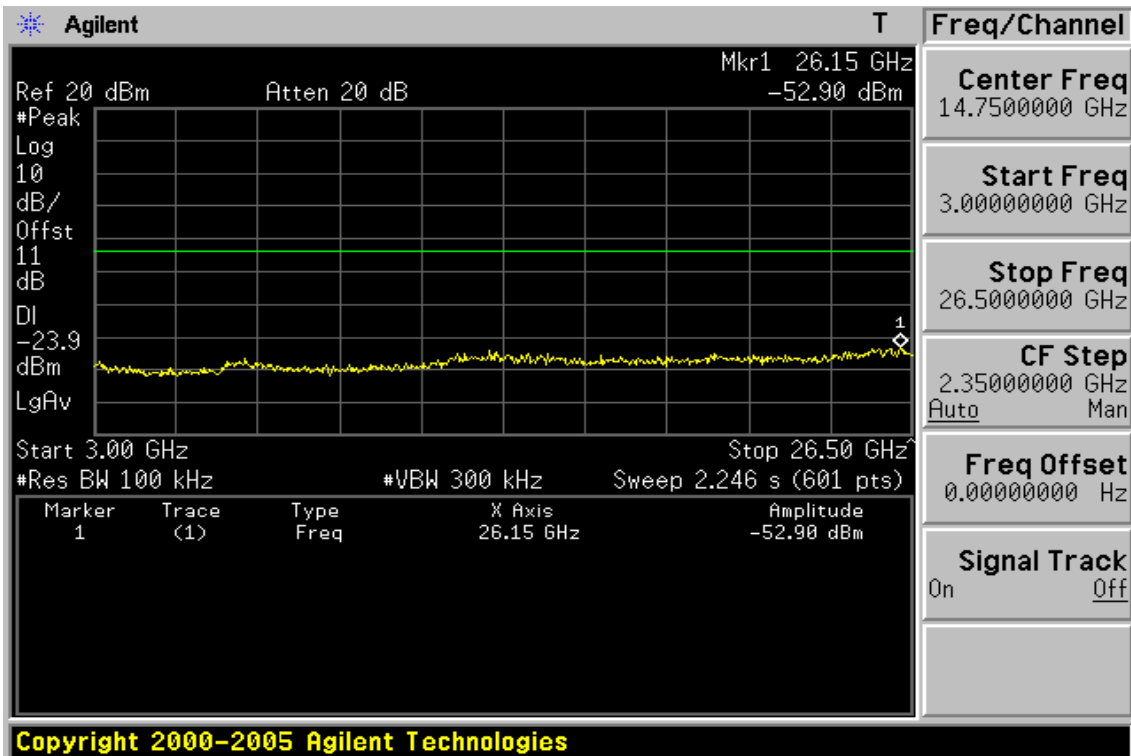
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

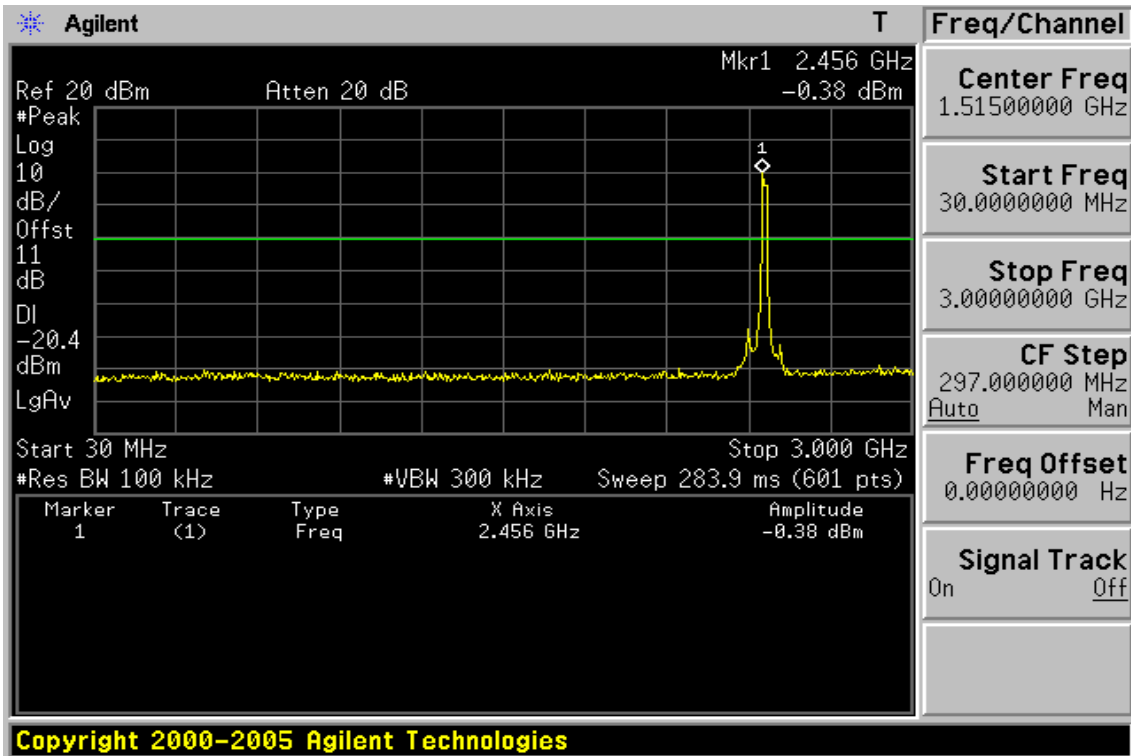


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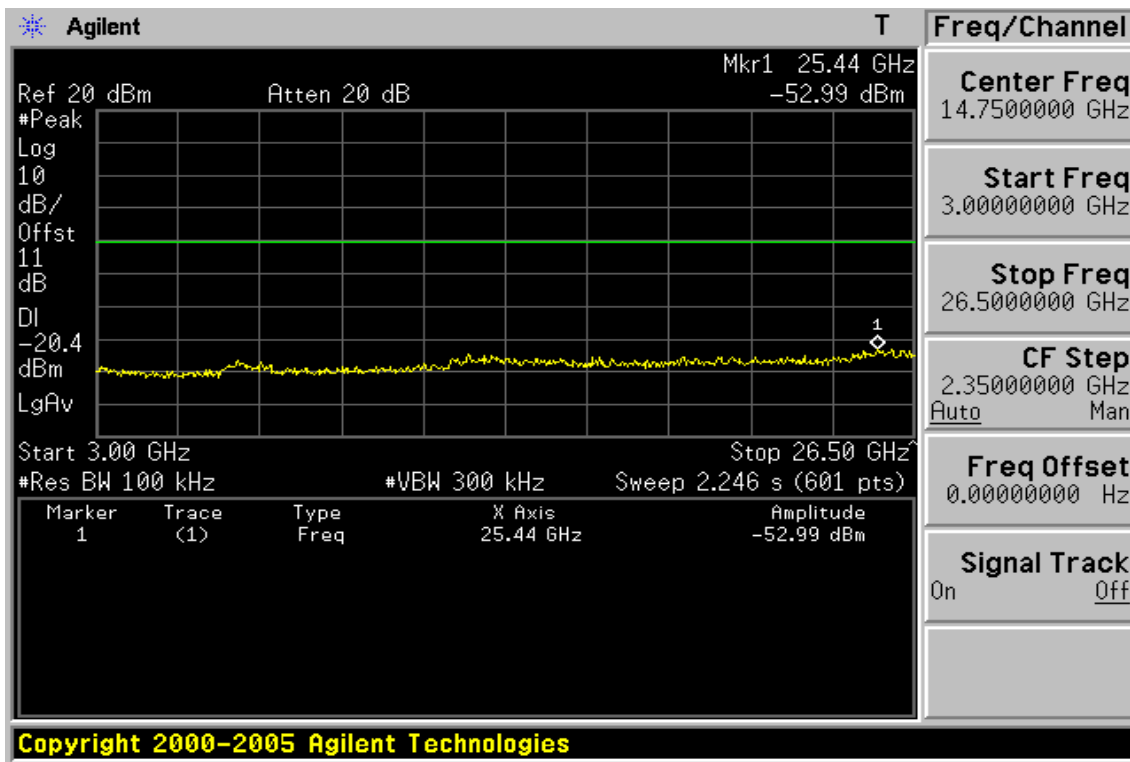
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**Ch High 30MHz – 3GHz**



**Ch High 3GHz – 26.5GHz**



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**Tabular Results:**

**Out of Band emission at antenna terminals – 802.11n\_20M**

Fundamental Frequency 2412 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
2412.00	Ref	-4.04	---	---
<30	S	---	-24.00	---
30-1000	S	---	-24.00	---
4824.00	H	---	-24.00	---
7236.00	H	---	-24.00	---
9648.00	H	---	-24.00	---
12060.00	H	---	-24.00	---
14472.00	H	---	-24.00	---
16884.00	H	---	-24.00	---
19296.00	H	---	-24.00	---
24120.00	H	---	-24.00	---
25520.00	S	-51.79	-24.00	27.79

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 2437 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
2431.00	Ref	-3.90	---	---
<30	S	---	-23.90	---
30-1000	S	---	-23.90	---
4874.00	H	---	-23.90	---
7311.00	H	---	-23.90	---
9748.00	H	---	-23.90	---
12185.00	H	---	-23.90	---
14622.00	H	---	-23.90	---
17059.00	H	---	-23.90	---
19496.00	H	---	-23.90	---
21933.00	H	---	-23.90	---
24370.00	H	---	-23.90	---
26150.00	S	-52.9	-23.90	29.00

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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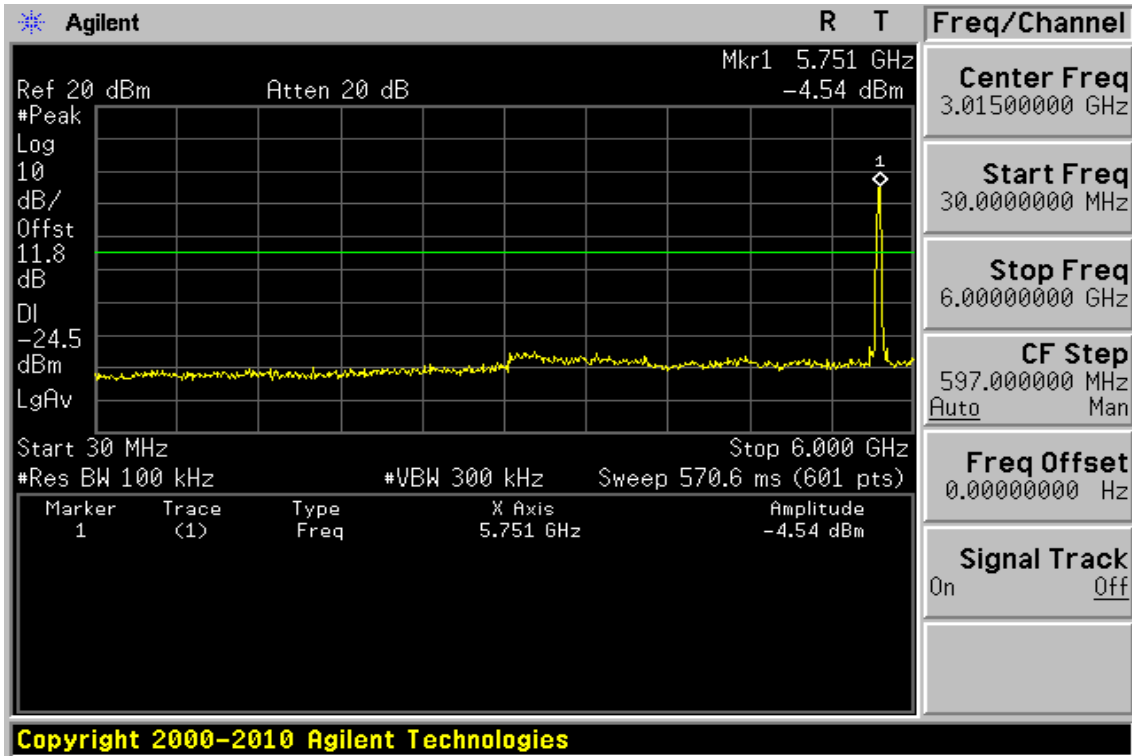
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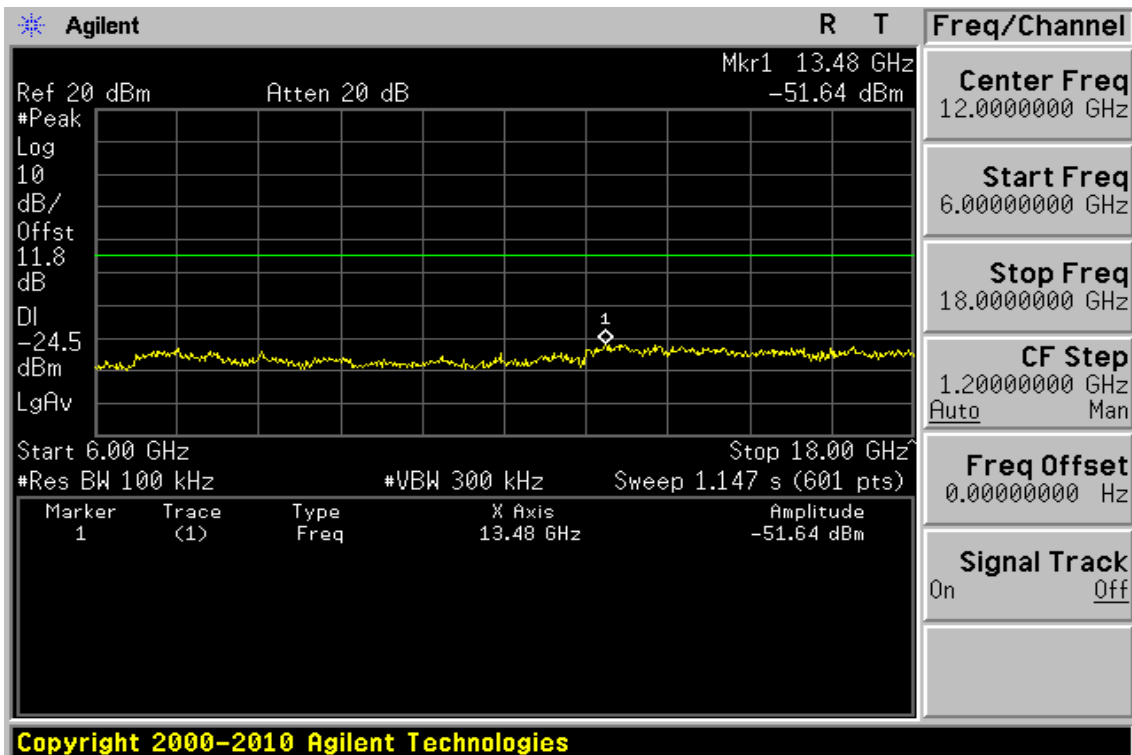


### Conducted Spurious Emission Measurement Result (802.11a)

#### Ch Low 30MHz – 6GHz



#### Ch Low 6GHz – 18GHz

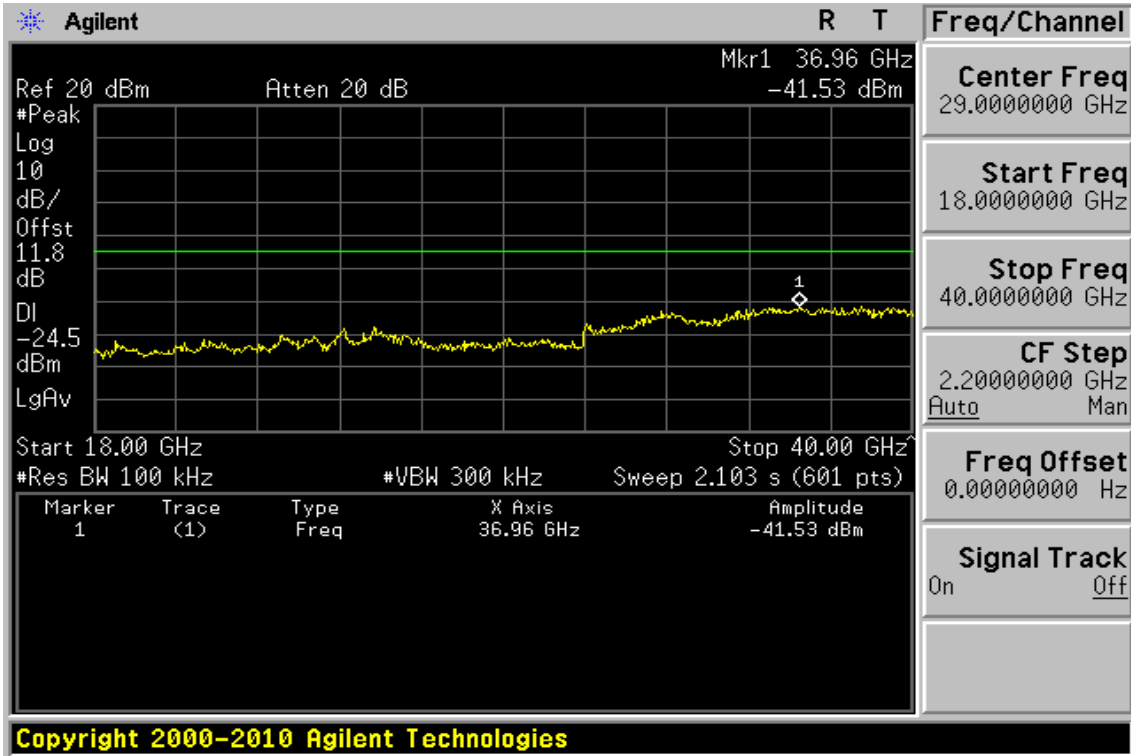


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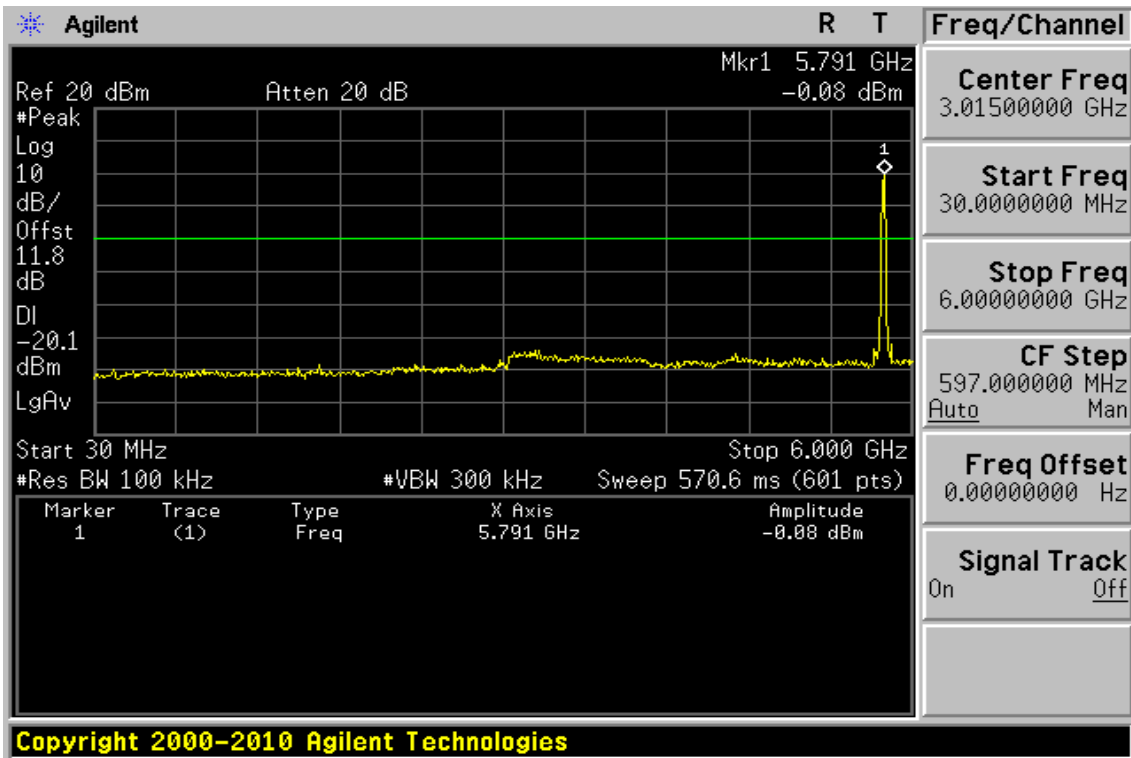
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**Ch Low 18GHz – 40GHz**



**Ch Mid 30MHz – 6GHz**

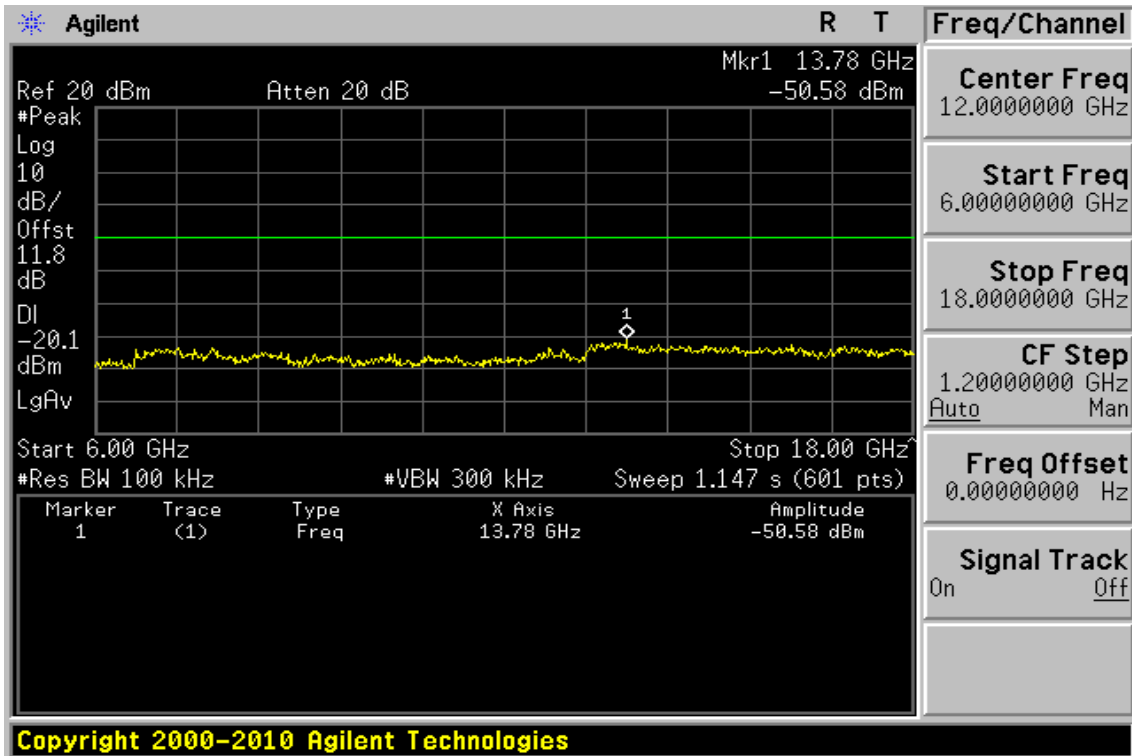


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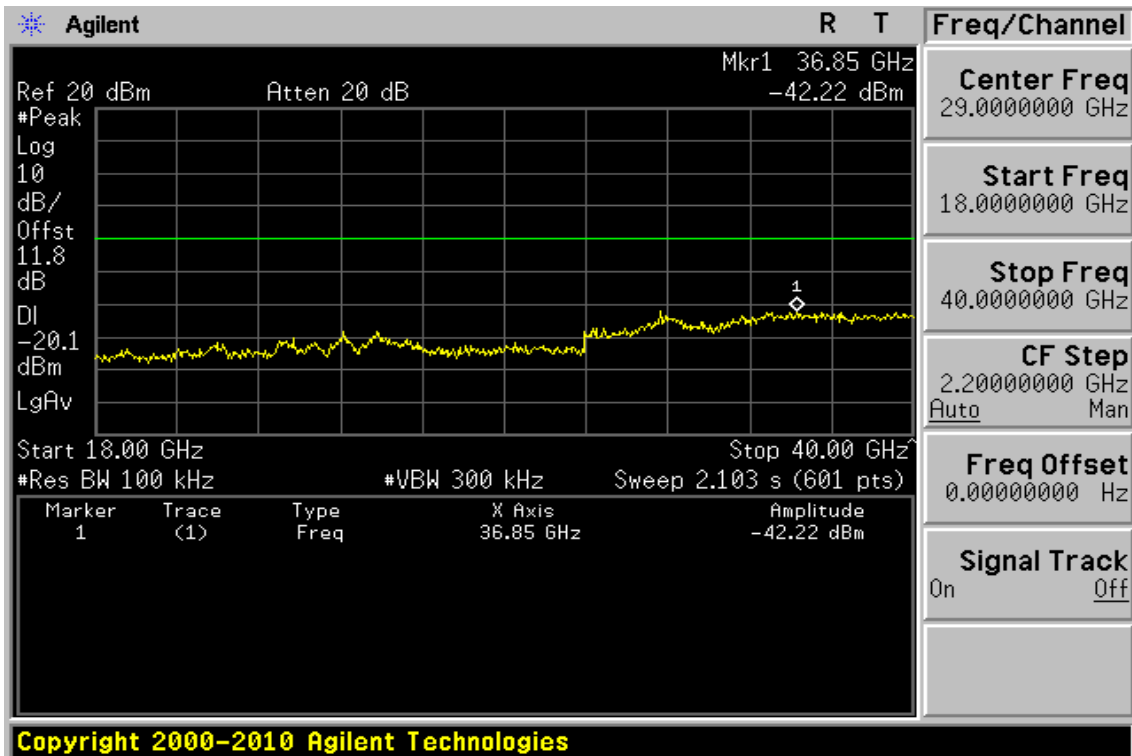
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

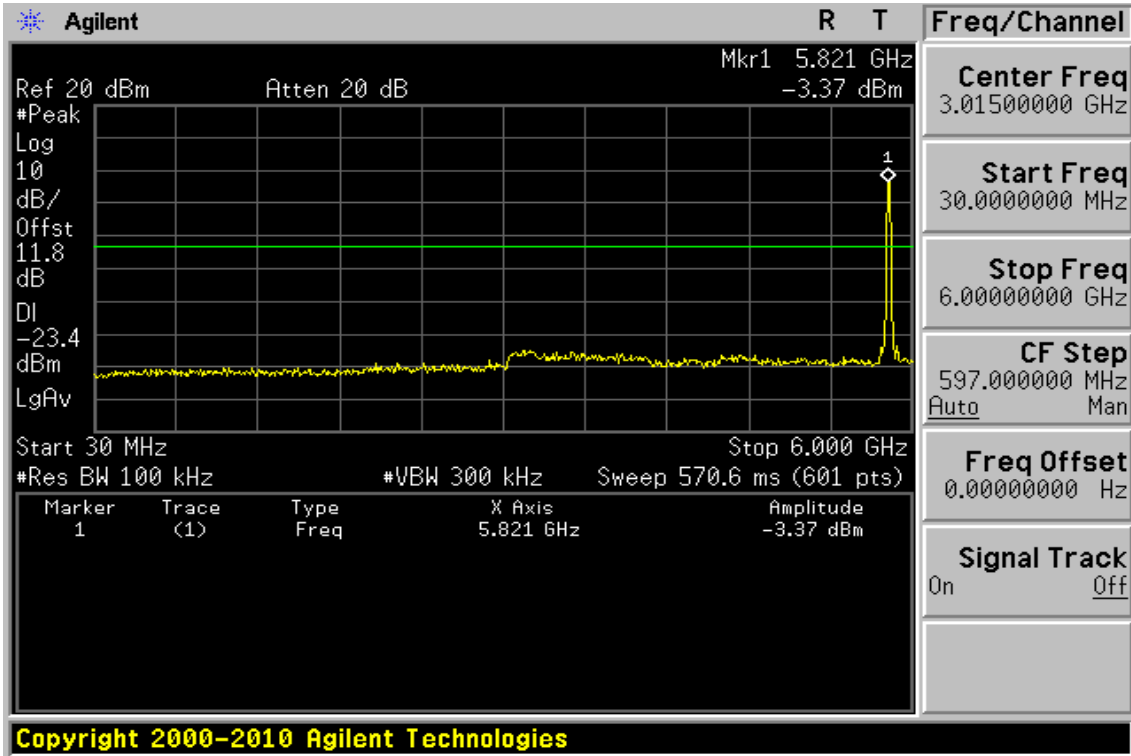


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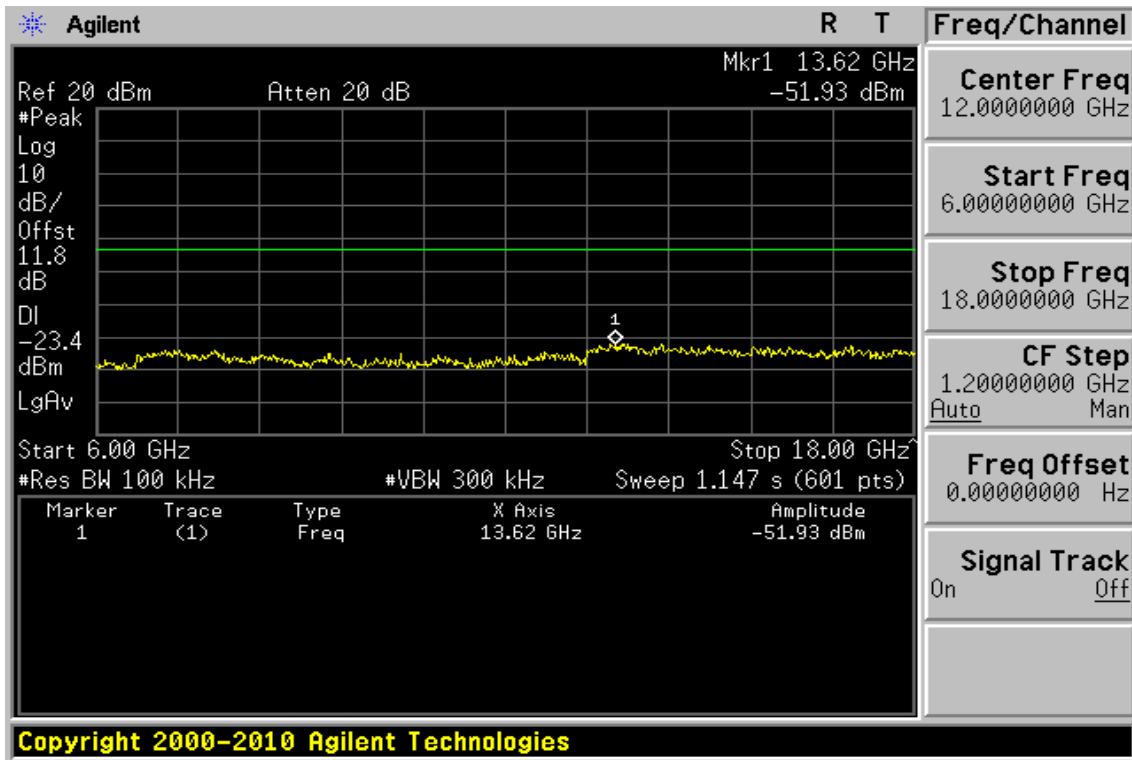
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**Ch High 30MHz – 6GHz**



**Ch High 6GHz – 18GHz**

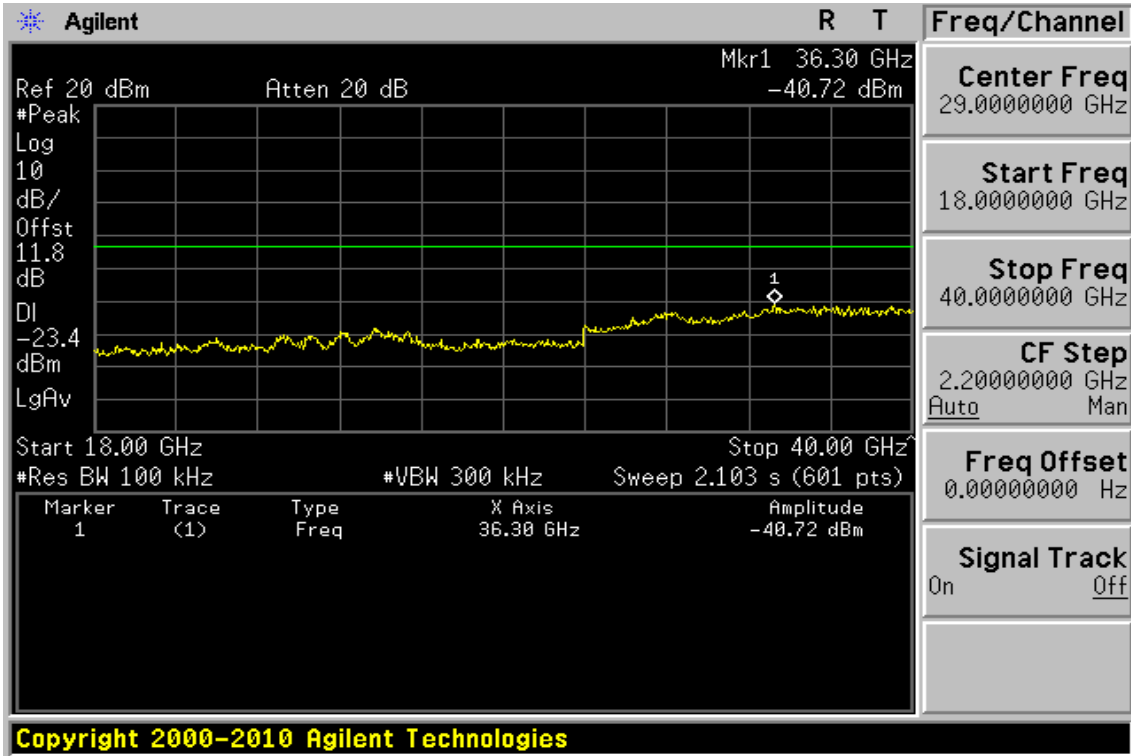


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Ch High 18GHz – 40GHz



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**Tabular Results:**

**Out of Band emission at antenna terminals – 802.11a**

Fundamental Frequency 5745 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5751.00	Ref	-4.54	---	---
<30	S	---	-24.50	---
30-1000	S	---	-24.50	---
11490.00	H	---	-24.50	---
13480.00	H	-51.64	-24.50	27.14
17235.00	H	---	-24.50	---
22980.00	H	---	-24.50	---
28725.00	H	---	-24.50	---
34470.00	H	---	-24.50	---
36960.00	S	-41.53	-24.50	17.03

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 5785 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5791.00	Ref	0.08	---	---
<30	S	---	-20.10	---
30-1000	S	---	-20.10	---
11490.00	H	---	-20.10	---
13780.00	S	-50.58	-20.10	30.48
17235.00	H	---	-20.10	---
22980.00	H	---	-20.10	---
28725.00	H	---	-20.10	---
34470.00	H	---	-20.10	---
36850.00	S	-42.22	-20.10	22.12

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
 "----" : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 5825 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5821.00	Ref	-3.37	---	---
<30	S	---	-23.40	---
30-1000	S	---	-23.40	---
11650.00	H	---	-23.40	---
13620.00	S	-51.93	-23.40	28.53
17475.00	H	---	-23.40	---
23300.00	H	---	-23.40	---
29125.00	H	---	-23.40	---
34950.00	H	---	-23.40	---
36300.00	S	-40.72	-23.40	17.32

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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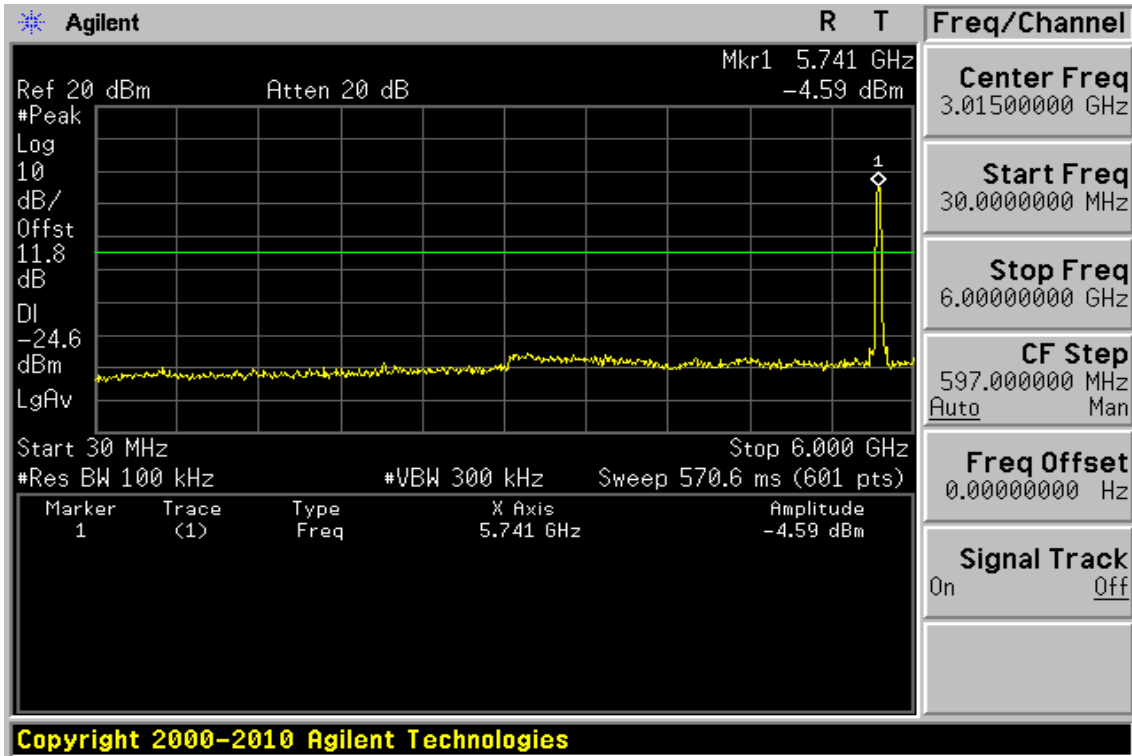
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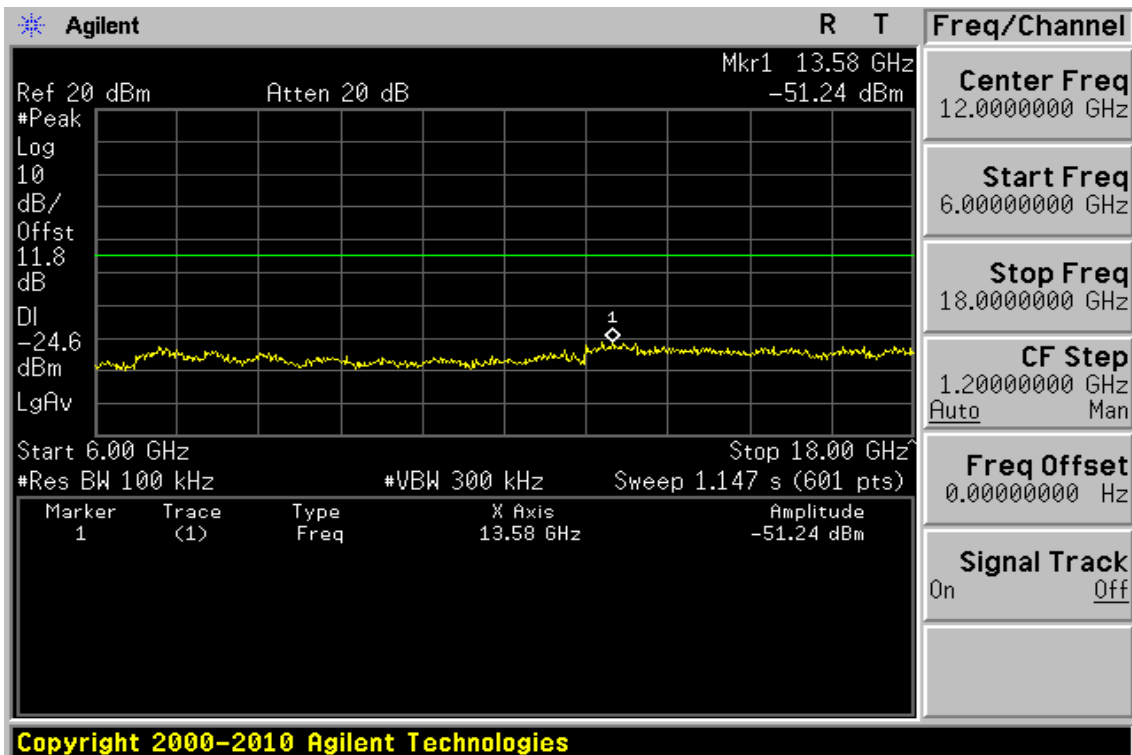


### Conducted Spurious Emission Measurement Result (802.11n (5GHz)\_20M)

#### Ch Low 30MHz – 6GHz



#### Ch Low 6GHz – 18GHz

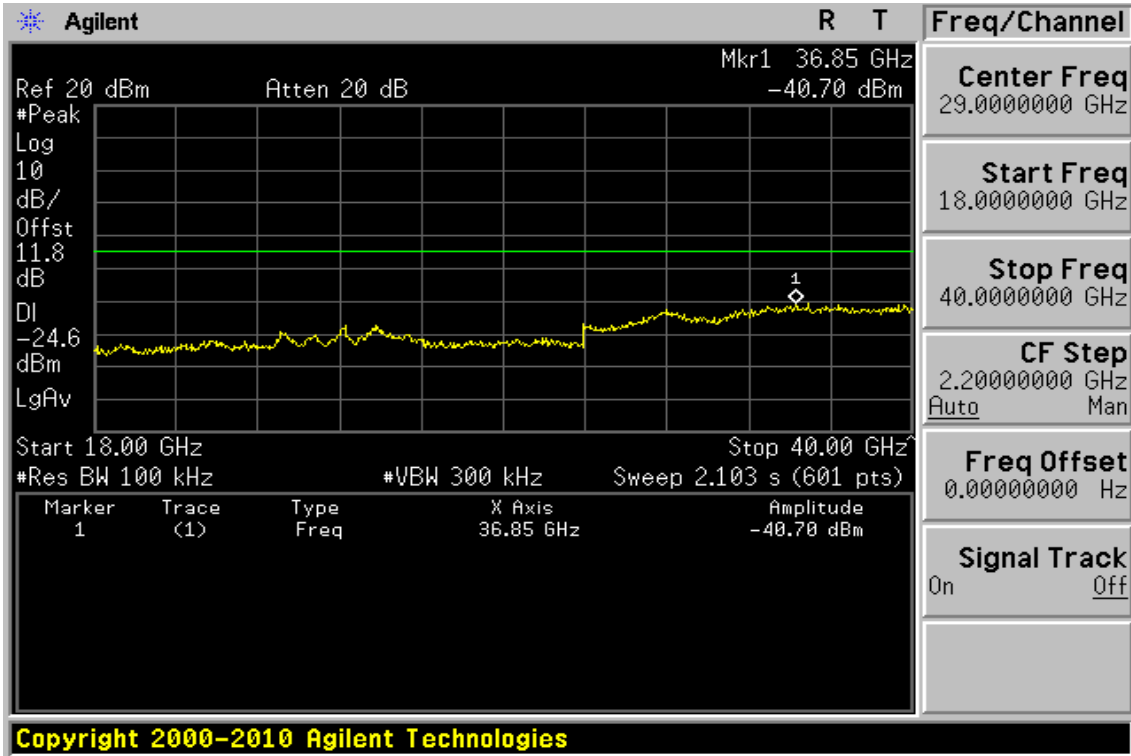


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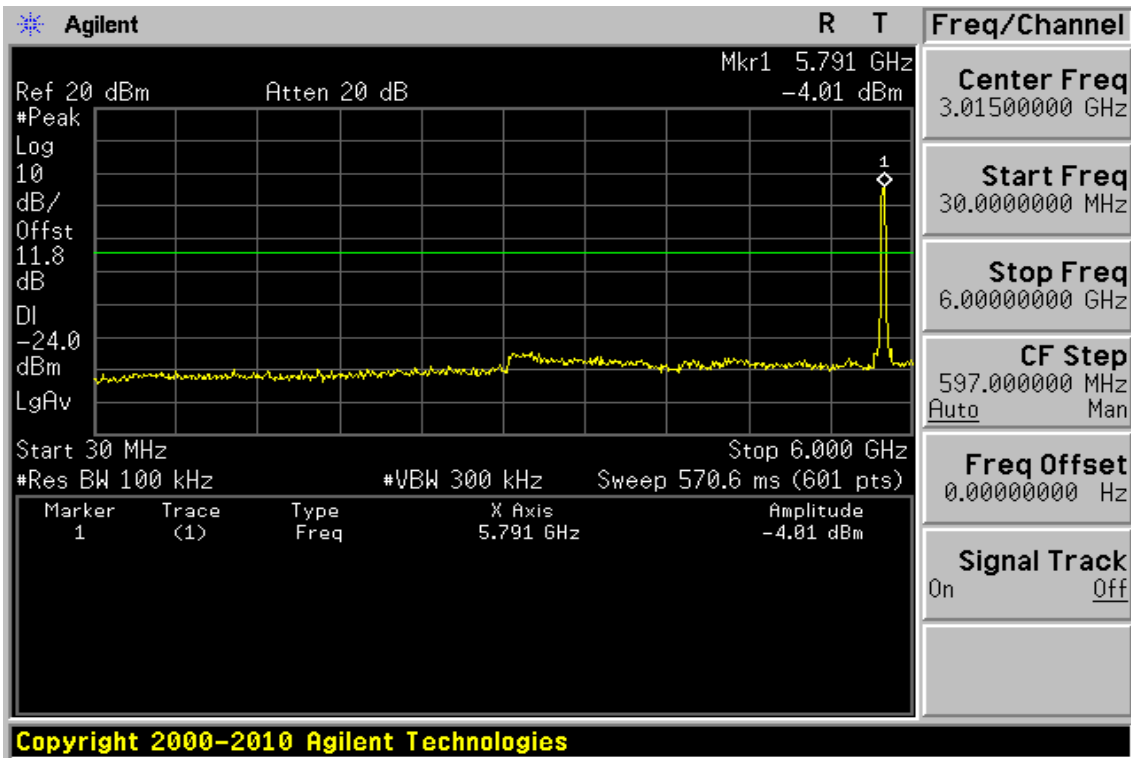
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**Ch Low 18GHz – 40GHz**



**Ch Mid 30MHz – 6GHz**

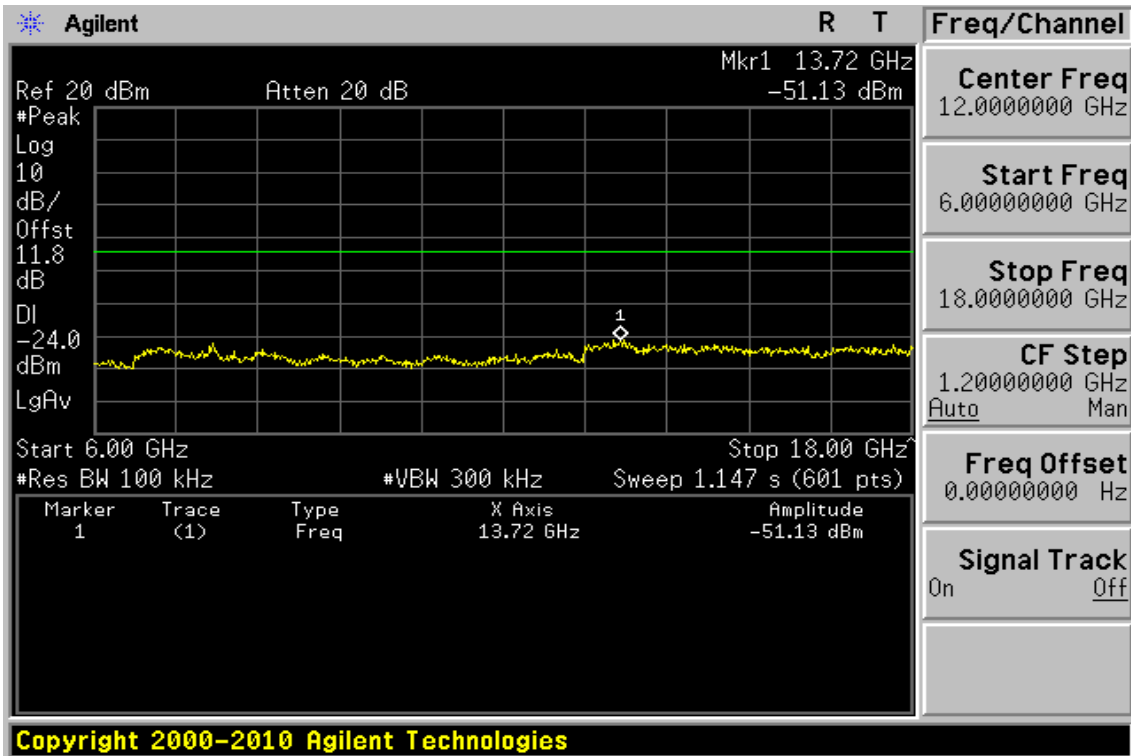


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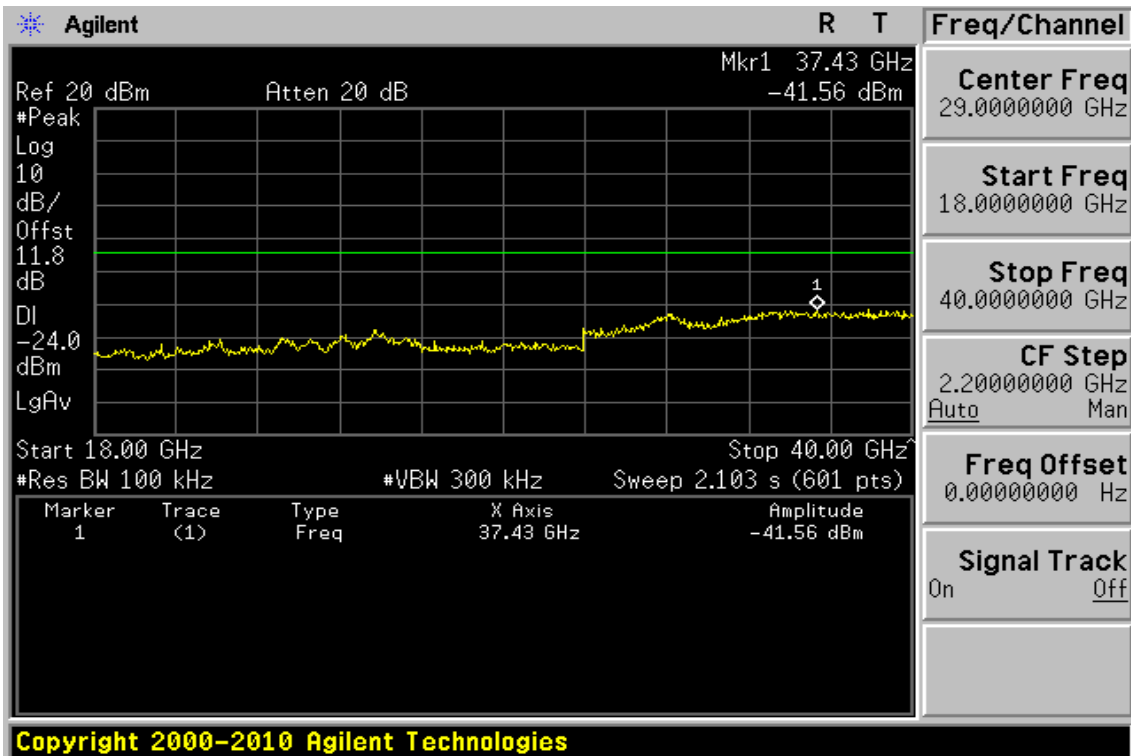
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

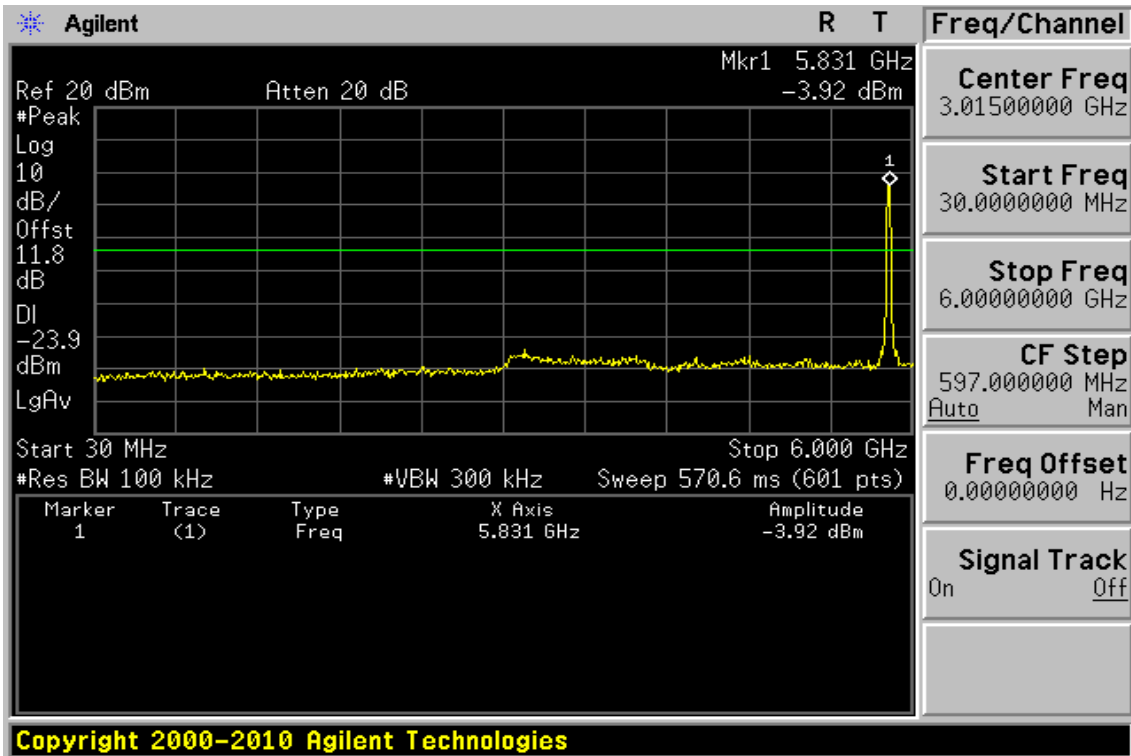


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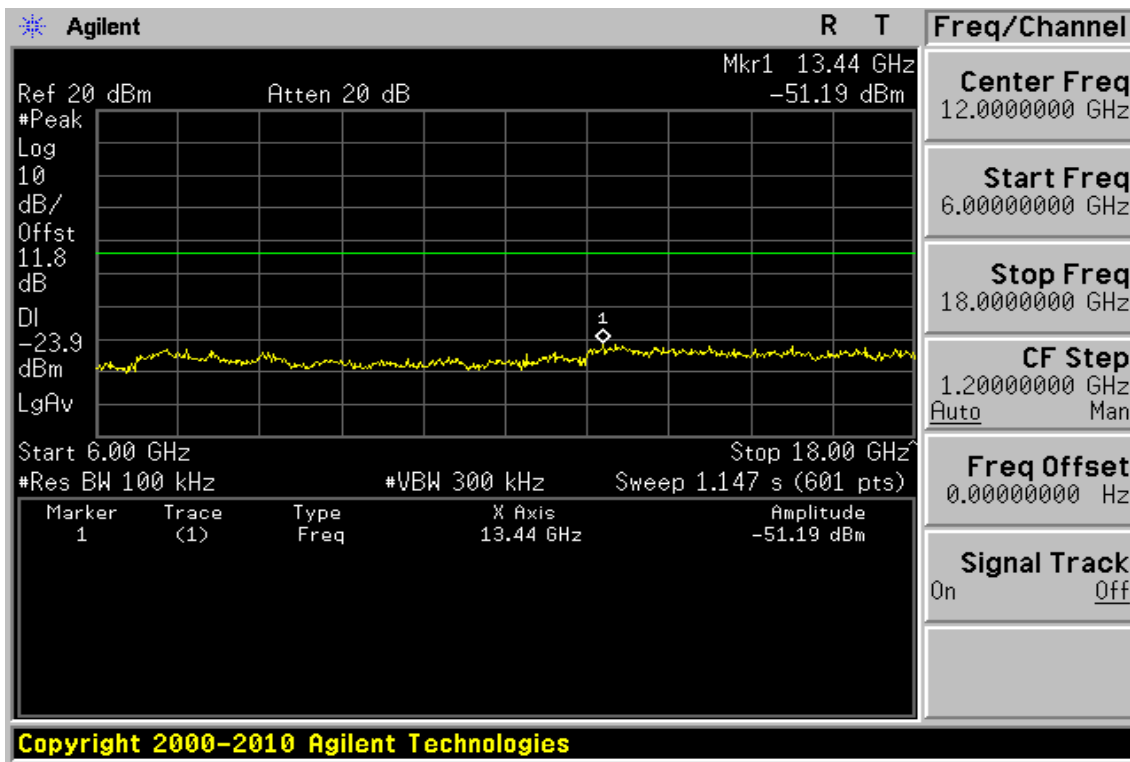
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**Ch High 30MHz – 6GHz**



**Ch High 6GHz – 18GHz**

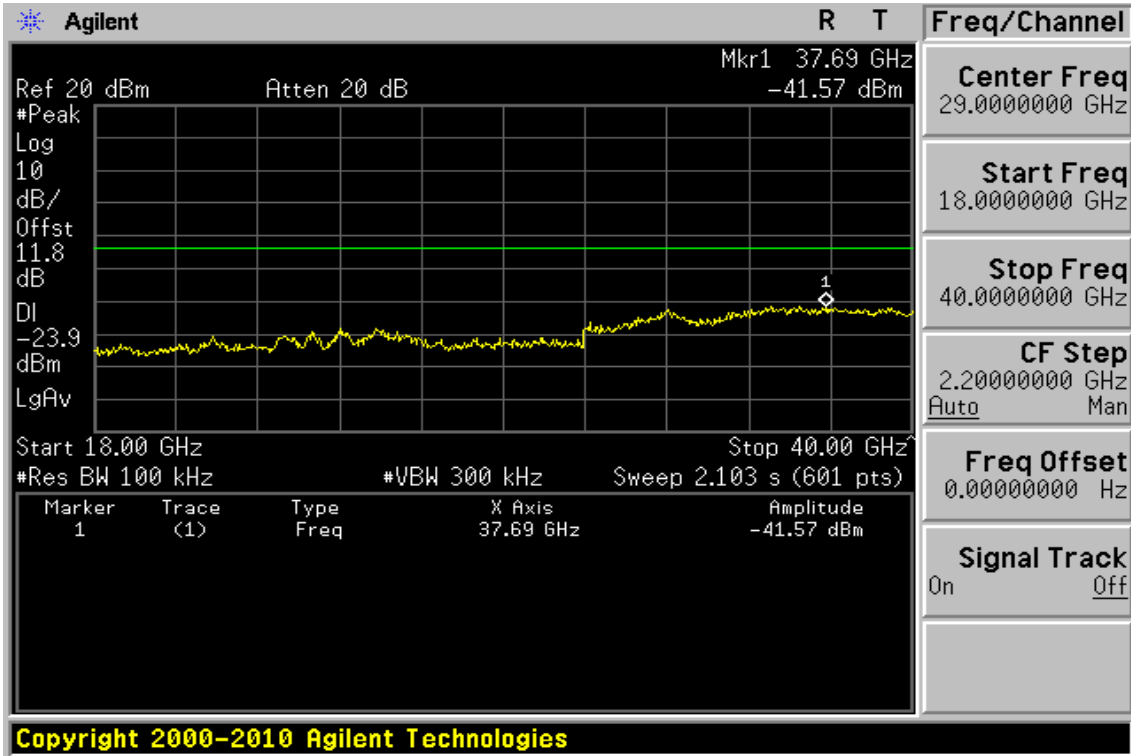


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Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11n\_20M**

Fundamental Frequency 5745 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5741.00	Ref	-4.59	—	—
<30	S	—	-24.60	—
30-1000	S	—	-24.60	—
11490.00	H	—	-24.60	—
13580.00	S	-51.24	-24.60	26.64
17235.00	H	—	-24.60	—
22980.00	H	—	-24.60	—
34470.00	H	—	-24.60	—
36850.00	S	-40.7	-24.60	16.10

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 5785 MHz Engineer :Nick  
 Operation Mode :TX Mid

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5791.00	Ref	-4.01	---	---
<30	S	---	-24.00	---
30-1000	S	---	-24.00	---
11570.00	H	---	-24.00	---
13720.00	S	-51.13	-24.00	27.13
17355.00	H	---	-24.00	---
23140.00	H	---	-24.00	---
28925.00	H	---	-24.00	---
34710.00	H	---	-24.00	---
37430.00	S	-41.56	-24.00	17.56

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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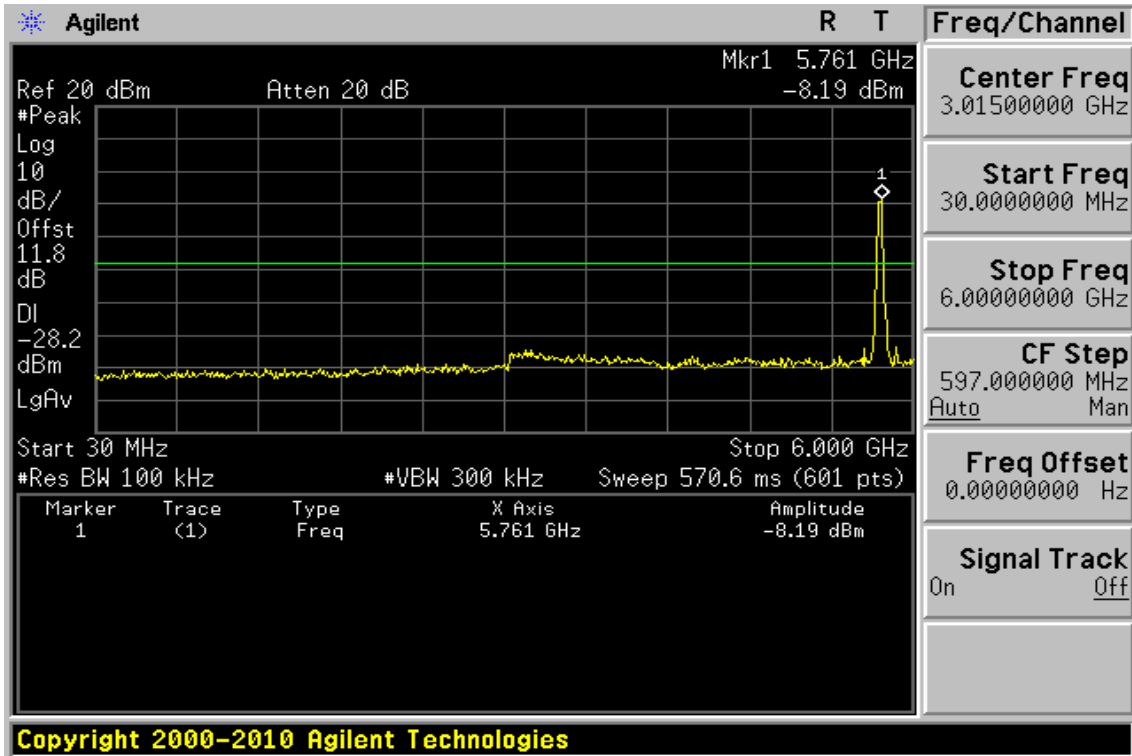
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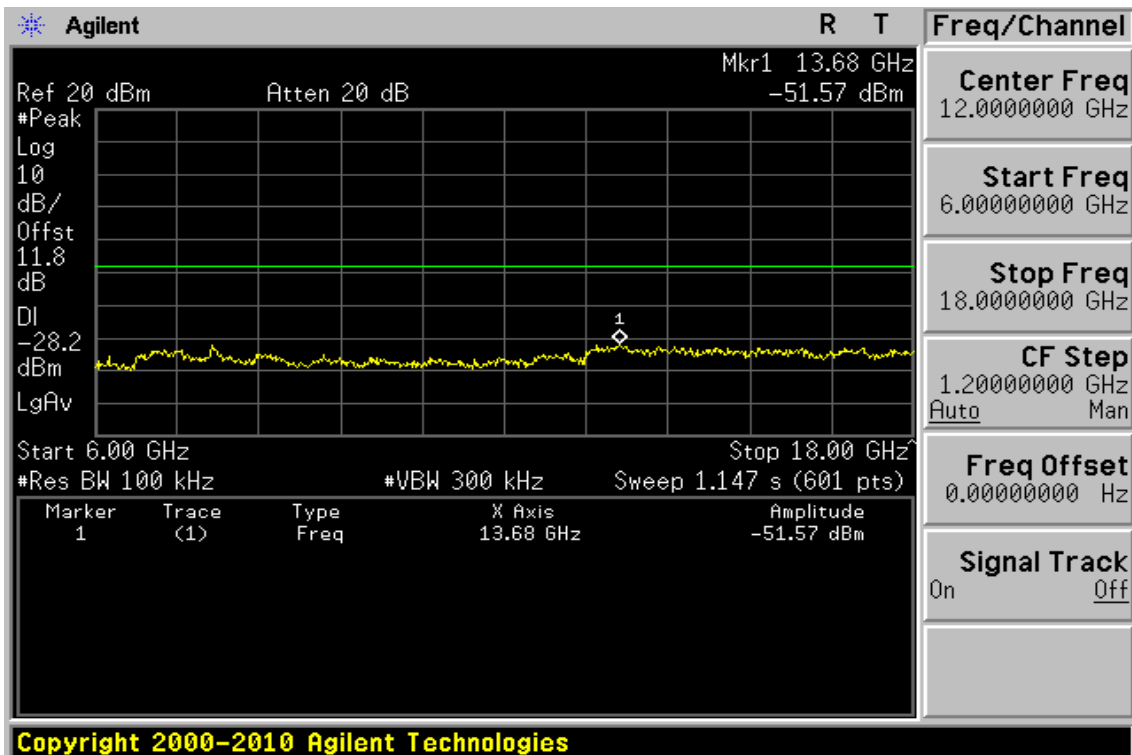


### Conducted Spurious Emission Measurement Result (802.11n (5GHz)\_40M)

#### Ch Low 30MHz – 6GHz



#### Ch Low 6GHz – 18GHz

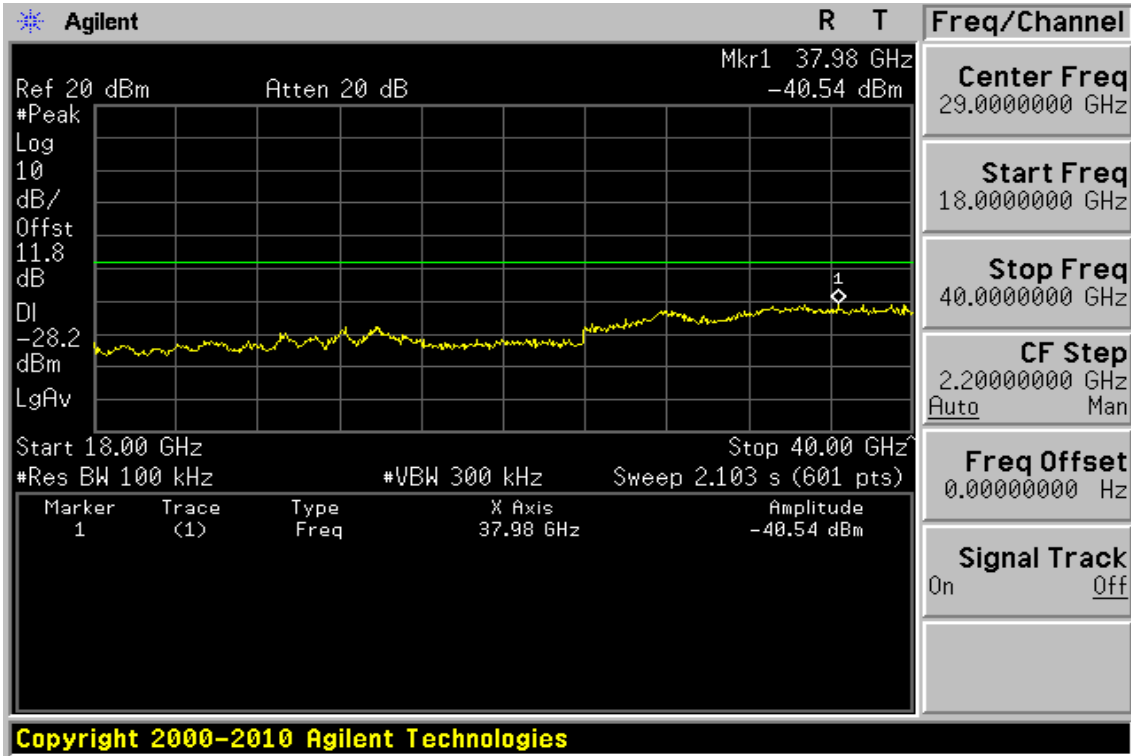


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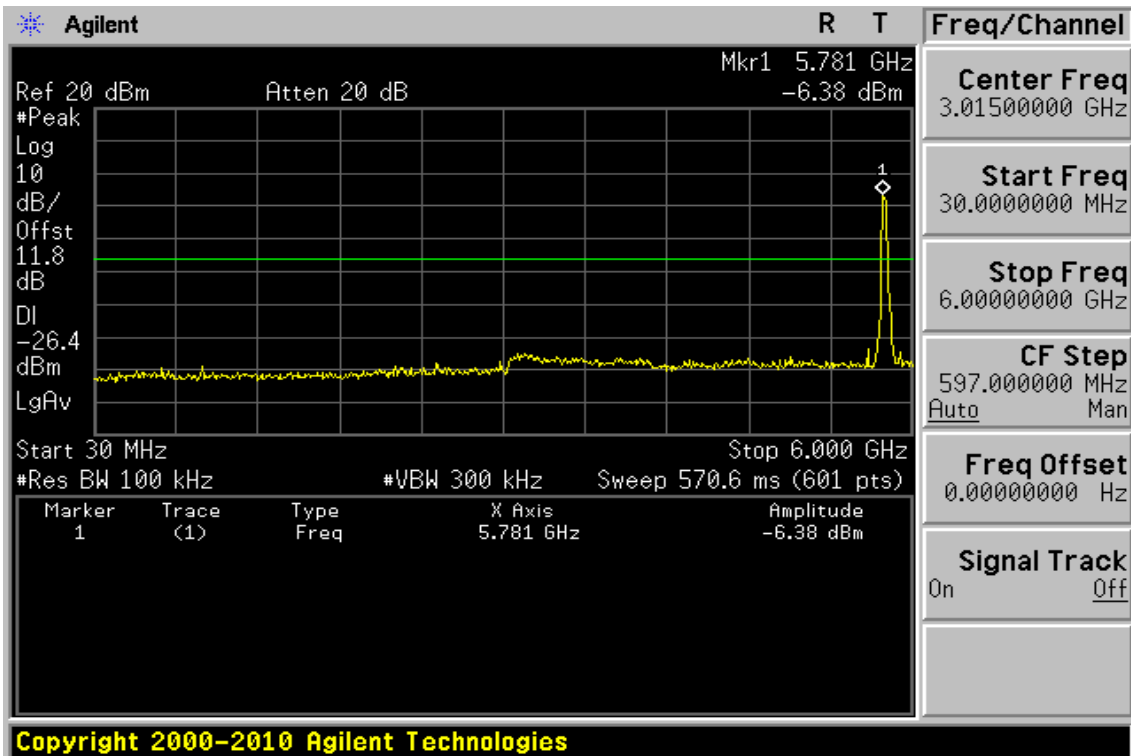
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**Ch Low 18GHz – 40GHz**



**Ch High 30MHz – 6GHz**

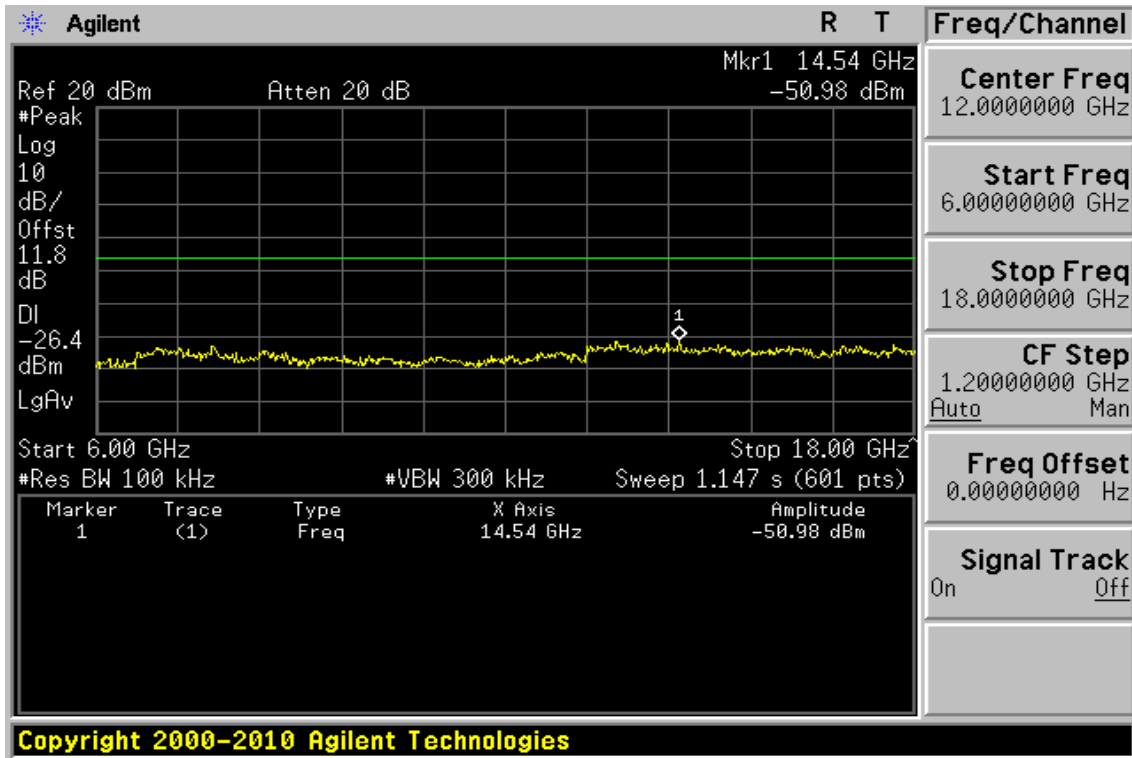


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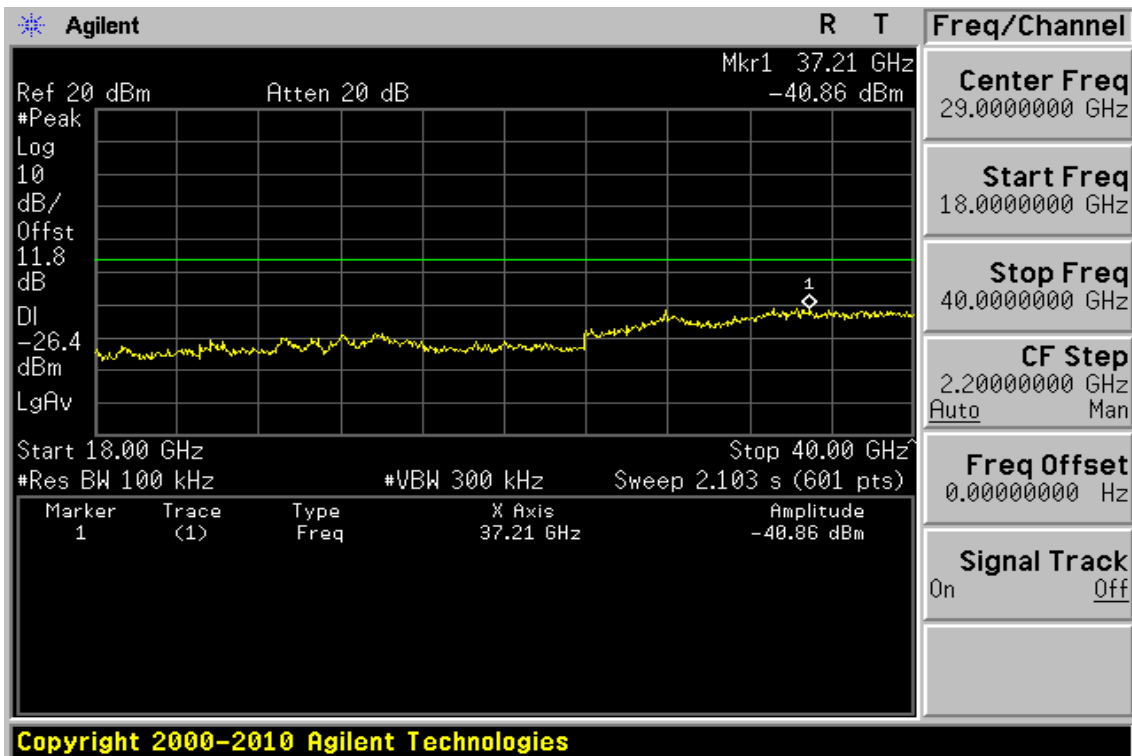
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### Ch High 6GHz – 18GHz



### Ch High 18GHz – 40GHz



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**Out of Band emission at antenna terminals – 802.11n\_40M**

Fundamental Frequency 5755 MHz Engineer :Nick  
 Operation Mode :TX Low

Freq (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5761.00	Ref	-8.19	—	—
<30	S	—	-28.20	—
30-1000	S	—	-28.20	—
11510.00	H	—	-28.20	—
13680.00	S	-51.57	-28.20	23.37
17265.00	H	—	-28.20	—
23020.00	H	—	-28.20	—
28775.00	H	—	-28.20	—
37980.00	S	-40.54	-28.20	12.34

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor. Ref: Reference Signal

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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Fundamental Frequency 5795 MHz Engineer :Nick  
 Operation Mode :TX High

Freq. (MHz)	Note F/H/E/S	Reading dBm	Limit dBm	Safe Margin dB
5781.00	Ref	-6.38	---	---
<30	S	---	-26.40	---
30-1000	S	---	-26.40	---
11590.00	H	---	-26.40	---
14540.00	S	-50.98	-26.40	24.58
17385.00	H	---	-26.40	---
23180.00	H	---	-26.40	---
28975.00	H	---	-26.40	---
34770.00	H	---	-26.40	---
37210.00	S	-40.86	-26.40	14.46

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Note2: Limit = Ref (the highest emission of the fundamental) – 20dBm

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**Radiated Spurious Emission Measurement Result (802.11b)**

For measurement plot of radiation, please refer to Appendix I.

Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:JJ
EUT Pol.	:E2 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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
46.49	S	Peak	40.79	-13.80	26.99	40.00	-13.01
61.04	S	Peak	32.17	-14.78	17.39	40.00	-22.61
99.84	S	Peak	32.28	-16.84	15.44	43.50	-28.06
343.31	S	Peak	27.36	-11.76	15.60	46.00	-30.40
658.56	S	Peak	27.30	-6.40	20.90	46.00	-25.10
824.43	S	Peak	27.32	-3.92	23.40	46.00	-22.60
4824.00	H	Average	30.02	7.07	37.09	54.00	-16.91
4824.00	H	Peak	37.88	7.07	44.95	74.00	-29.05
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	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:JJ
EUT Pol.	:E2 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
59.10	S	Peak	26.76	-14.51	12.25	40.00	-27.75
156.10	S	Peak	27.21	-12.30	14.91	43.50	-28.59
286.08	S	Peak	28.23	-12.89	15.34	46.00	-30.66
535.37	S	Peak	28.22	-8.89	19.33	46.00	-26.67
712.88	S	Peak	25.96	-5.54	20.42	46.00	-25.58
870.99	S	Peak	26.58	-3.36	23.22	46.00	-22.78
4824.00	H	Average	27.05	7.08	34.13	54.00	-19.87
4824.00	H	Peak	37.95	7.08	45.03	74.00	-28.97
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	:2013-05-27
Fundamental Frequency	:2437 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 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
61.04	S	Peak	32.24	-14.78	17.46	40.00	-22.54
99.84	S	Peak	32.02	-16.84	15.18	43.50	-28.32
114.39	S	Peak	31.96	-15.22	16.74	43.50	-26.76
209.45	S	Peak	27.50	-15.86	11.64	43.50	-31.86
474.26	S	Peak	28.20	-9.87	18.33	46.00	-27.67
706.09	S	Peak	26.98	-5.65	21.33	46.00	-24.67
4874.00	H	Average	29.73	7.14	36.87	54.00	-17.13
4874.00	H	Peak	37.15	7.14	44.29	74.00	-29.71
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	:2013-05-27
Fundamental Frequency	:2437 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 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
62.01	S	Peak	26.70	-14.97	11.73	40.00	-28.27
138.64	S	Peak	26.52	-13.20	13.32	43.50	-30.18
170.65	S	Peak	26.03	-13.22	12.81	43.50	-30.69
354.95	S	Peak	28.08	-11.61	16.47	46.00	-29.53
598.42	S	Peak	28.11	-7.59	20.52	46.00	-25.48
817.64	S	Peak	27.01	-4.00	23.01	46.00	-22.99
4874.00	H	Average	26.12	7.09	33.21	54.00	-20.79
4874.00	H	Peak	37.03	7.09	44.12	74.00	-29.88
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	:2013-05-27
Fundamental Frequency	:2462 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	:E2 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
47.46	S	Peak	39.89	-13.85	26.04	40.00	-13.96
61.04	S	Peak	31.13	-14.78	16.35	40.00	-23.65
99.84	S	Peak	32.90	-16.84	16.06	43.50	-27.44
157.07	S	Peak	28.71	-12.29	16.42	43.50	-27.08
632.37	S	Peak	27.95	-6.90	21.05	46.00	-24.95
914.64	S	Peak	26.60	-2.53	24.07	46.00	-21.93
4924.00	H	Average	33.83	7.19	41.02	54.00	-12.98
4924.00	H	Peak	37.51	7.19	44.70	74.00	-29.30
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 :2013-05-27  
 Fundamental Frequency :2462 MHz power 15 dBm Temp./Humi. :23deg\_C/52RH  
 Operation Mode :TX HIGH Engineer :JJ  
 EUT Pol. :E2 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
51.34	S	Peak	27.30	-13.99	13.31	40.00	-26.69
136.70	S	Peak	27.22	-13.36	13.86	43.50	-29.64
286.08	S	Peak	27.40	-12.89	14.51	46.00	-31.49
542.16	S	Peak	28.91	-8.74	20.17	46.00	-25.83
678.93	S	Peak	26.87	-6.05	20.82	46.00	-25.18
718.70	S	Peak	27.30	-5.45	21.85	46.00	-24.15
4924.00	H	Average	28.31	7.08	35.39	54.00	-18.61
4924.00	H	Peak	36.43	7.08	43.51	74.00	-30.49
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	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBµV		dBµV/m	dBµV/m	
44.55	S	Peak	41.96	-13.76	28.20	40.00	-11.80
114.39	S	Peak	32.17	-15.22	16.95	43.50	-26.55
157.07	S	Peak	28.45	-12.29	16.16	43.50	-27.34
386.96	S	Peak	26.97	-11.19	15.78	46.00	-30.22
585.81	S	Peak	28.35	-7.86	20.49	46.00	-25.51
812.79	S	Peak	28.28	-4.04	24.24	46.00	-21.76
4824.00	H	Average	28.89	7.07	35.96	54.00	-18.04
4824.00	H	Peak	39.03	7.07	46.10	74.00	-27.90
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	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	31.44	-13.70	17.74	40.00	-22.26
156.10	S	Peak	27.01	-12.30	14.71	43.50	-28.79
286.08	S	Peak	27.39	-12.89	14.50	46.00	-31.50
647.89	S	Peak	28.06	-6.64	21.42	46.00	-24.58
729.37	S	Peak	27.98	-5.30	22.68	46.00	-23.32
818.61	S	Peak	28.22	-3.98	24.24	46.00	-21.76
4824.00	H	Average	26.31	7.08	33.39	54.00	-20.61
4824.00	H	Peak	37.69	7.08	44.77	74.00	-29.23
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	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.32	-13.70	28.62	40.00	-11.38
114.39	S	Peak	32.71	-15.22	17.49	43.50	-26.01
157.07	S	Peak	28.32	-12.29	16.03	43.50	-27.47
343.31	S	Peak	27.80	-11.76	16.04	46.00	-29.96
518.88	S	Peak	28.36	-9.24	19.12	46.00	-26.88
615.88	S	Peak	28.13	-7.21	20.92	46.00	-25.08
4874.00	H	Average	26.54	7.14	33.68	54.00	-20.32
4874.00	H	Peak	36.80	7.14	43.94	74.00	-30.06
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	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	30.65	-13.70	16.95	40.00	-23.05
160.95	S	Peak	26.56	-12.36	14.20	43.50	-29.30
301.60	S	Peak	26.93	-12.53	14.40	46.00	-31.60
604.24	S	Peak	28.21	-7.47	20.74	46.00	-25.26
677.96	S	Peak	27.75	-6.06	21.69	46.00	-24.31
828.31	S	Peak	27.70	-3.90	23.80	46.00	-22.20
4874.00	H	Average	25.23	7.09	32.32	54.00	-21.68
4874.00	H	Peak	36.98	7.09	44.07	74.00	-29.93
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	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.55	-13.70	28.85	40.00	-11.15
114.39	S	Peak	31.94	-15.22	16.72	43.50	-26.78
157.07	S	Peak	28.45	-12.29	16.16	43.50	-27.34
343.31	S	Peak	26.75	-11.76	14.99	46.00	-31.01
626.55	S	Peak	27.86	-7.00	20.86	46.00	-25.14
805.03	S	Peak	29.21	-4.14	25.07	46.00	-20.93
4924.00	H	Average	24.09	7.19	31.28	54.00	-22.72
4924.00	H	Peak	38.45	7.19	45.64	74.00	-28.36
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	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	29.76	-13.70	16.06	40.00	-23.94
150.28	S	Peak	26.36	-12.35	14.01	43.50	-29.49
286.08	S	Peak	27.03	-12.89	14.14	46.00	-31.86
438.37	S	Peak	26.89	-10.25	16.64	46.00	-29.36
600.36	S	Peak	28.04	-7.55	20.49	46.00	-25.51
871.96	S	Peak	27.05	-3.34	23.71	46.00	-22.29
4924.00	H	Average	23.55	7.08	30.63	54.00	-23.37
4924.00	H	Peak	36.37	7.08	43.45	74.00	-30.55
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	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	42.36	-13.76	28.60	40.00	-11.40
114.39	S	Peak	31.88	-15.22	16.66	43.50	-26.84
157.07	S	Peak	27.36	-12.29	15.07	43.50	-28.43
409.27	S	Peak	26.55	-10.87	15.68	46.00	-30.32
595.51	S	Peak	27.91	-7.66	20.25	46.00	-25.75
776.90	S	Peak	27.72	-4.52	23.20	46.00	-22.80
4824.00	H	Average	29.55	7.07	36.62	54.00	-17.38
4824.00	H	Peak	39.46	7.07	46.53	74.00	-27.47
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	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	29.65	-13.76	15.89	40.00	-24.11
158.04	S	Peak	27.95	-12.30	15.65	43.50	-27.85
286.08	S	Peak	27.61	-12.89	14.72	46.00	-31.28
537.31	S	Peak	27.47	-8.84	18.63	46.00	-27.37
686.69	S	Peak	28.39	-5.92	22.47	46.00	-23.53
768.17	S	Peak	27.72	-4.65	23.07	46.00	-22.93
4824.00	H	Average	26.68	7.08	33.76	54.00	-20.24
4824.00	H	Peak	37.00	7.08	44.08	74.00	-29.92
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	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.11	-13.70	28.41	40.00	-11.59
114.39	S	Peak	31.86	-15.22	16.64	43.50	-26.86
157.07	S	Peak	28.45	-12.29	16.16	43.50	-27.34
343.31	S	Peak	28.23	-11.76	16.47	46.00	-29.53
587.75	S	Peak	27.84	-7.82	20.02	46.00	-25.98
783.69	S	Peak	28.08	-4.40	23.68	46.00	-22.32
4874.00	H	Average	25.41	7.14	32.55	54.00	-21.45
4874.00	H	Peak	36.12	7.14	43.26	74.00	-30.74
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	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	30.23	-13.70	16.53	40.00	-23.47
152.22	S	Peak	26.42	-12.32	14.10	43.50	-29.40
286.08	S	Peak	27.44	-12.89	14.55	46.00	-31.45
414.12	S	Peak	28.13	-10.75	17.38	46.00	-28.62
631.40	S	Peak	27.36	-6.92	20.44	46.00	-25.56
701.24	S	Peak	27.84	-5.73	22.11	46.00	-23.89
4874.00	H	Average	24.75	7.09	31.84	54.00	-22.16
4874.00	H	Peak	35.73	7.09	42.82	74.00	-31.18
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	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	41.89	-13.76	28.13	40.00	-11.87
114.39	S	Peak	34.18	-15.22	18.96	43.50	-24.54
157.07	S	Peak	27.46	-12.29	15.17	43.50	-28.33
286.08	S	Peak	28.02	-12.89	15.13	46.00	-30.87
457.77	S	Peak	27.86	-9.99	17.87	46.00	-28.13
730.34	S	Peak	28.15	-5.29	22.86	46.00	-23.14
4924.00	H	Average	24.53	7.19	31.72	54.00	-22.28
4924.00	H	Peak	37.36	7.19	44.55	74.00	-29.45
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	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	31.04	-13.70	17.34	40.00	-22.66
150.28	S	Peak	26.65	-12.35	14.30	43.50	-29.20
286.08	S	Peak	27.26	-12.89	14.37	46.00	-31.63
455.83	S	Peak	27.54	-9.99	17.55	46.00	-28.45
638.19	S	Peak	27.30	-6.80	20.50	46.00	-25.50
849.65	S	Peak	27.88	-3.69	24.19	46.00	-21.81
4924.00	H	Average	23.50	7.08	30.58	54.00	-23.42
4924.00	H	Peak	36.00	7.08	43.08	74.00	-30.92
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	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBµV		dBµV/m	dBµV/m	
44.55	S	Peak	42.54	-13.76	28.78	40.00	-11.22
114.39	S	Peak	31.28	-15.22	16.06	43.50	-27.44
343.31	S	Peak	27.76	-11.76	16.00	46.00	-30.00
571.26	S	Peak	27.30	-8.17	19.13	46.00	-26.87
714.82	S	Peak	27.79	-5.51	22.28	46.00	-23.72
899.12	S	Peak	27.46	-2.83	24.63	46.00	-21.37
11490.00	H	Average	25.62	17.60	43.22	54.00	-10.78
11490.00	H	Peak	26.69	17.60	44.29	74.00	-29.71
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	31.20	-13.76	17.44	40.00	-22.56
159.01	S	Peak	27.76	-12.28	15.48	43.50	-28.02
339.43	S	Peak	27.87	-11.82	16.05	46.00	-29.95
520.82	S	Peak	28.16	-9.20	18.96	46.00	-27.04
733.25	S	Peak	27.13	-5.24	21.89	46.00	-24.11
949.56	S	Peak	27.22	-2.10	25.12	46.00	-20.88
11490.00	H	Average	30.29	17.40	47.69	54.00	-6.31
11490.00	H	Peak	31.81	17.40	49.21	74.00	-24.79
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.80	-13.70	29.10	40.00	-10.90
143.49	S	Peak	30.34	-12.82	17.52	43.50	-25.98
343.31	S	Peak	28.31	-11.76	16.55	46.00	-29.45
547.98	S	Peak	28.49	-8.61	19.88	46.00	-26.12
738.10	S	Peak	27.50	-5.15	22.35	46.00	-23.65
913.67	S	Peak	27.98	-2.56	25.42	46.00	-20.58
11570.00	H	Average	26.12	17.69	43.81	54.00	-10.19
11570.00	H	Peak	27.60	17.69	45.29	74.00	-28.71
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	32.00	-13.76	18.24	40.00	-21.76
147.37	S	Peak	26.84	-12.53	14.31	43.50	-29.19
349.13	S	Peak	28.10	-11.71	16.39	46.00	-29.61
545.07	S	Peak	28.07	-8.67	19.40	46.00	-26.60
728.40	S	Peak	28.48	-5.31	23.17	46.00	-22.83
944.71	S	Peak	28.01	-2.14	25.87	46.00	-20.13
11570.00	H	Average	29.79	17.49	47.28	54.00	-6.72
11570.00	H	Peak	30.83	17.49	48.32	74.00	-25.68
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.70	-13.70	29.00	40.00	-11.00
157.07	S	Peak	28.82	-12.29	16.53	43.50	-26.97
343.31	S	Peak	28.22	-11.76	16.46	46.00	-29.54
532.46	S	Peak	28.00	-8.95	19.05	46.00	-26.95
692.51	S	Peak	27.94	-5.85	22.09	46.00	-23.91
821.52	S	Peak	28.79	-3.95	24.84	46.00	-21.16
11650.00	H	Average	27.05	17.78	44.83	54.00	-9.17
11650.00	H	Peak	28.47	17.78	46.25	74.00	-27.75
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	31.20	-13.76	17.44	40.00	-22.56
155.13	S	Peak	26.46	-12.30	14.16	43.50	-29.34
342.34	S	Peak	27.74	-11.78	15.96	46.00	-30.04
581.93	S	Peak	27.25	-7.94	19.31	46.00	-26.69
725.49	S	Peak	28.21	-5.35	22.86	46.00	-23.14
910.76	S	Peak	26.99	-2.61	24.38	46.00	-21.62
11650.00	H	Average	27.62	17.58	45.20	54.00	-8.80
11650.00	H	Peak	28.17	17.58	45.75	74.00	-28.25
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	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
40.67	S	Peak	43.26	-13.48	29.78	40.00	-10.22
157.07	S	Peak	27.78	-12.29	15.49	43.50	-28.01
343.31	S	Peak	28.38	-11.76	16.62	46.00	-29.38
537.31	S	Peak	27.42	-8.84	18.58	46.00	-27.42
730.34	S	Peak	26.98	-5.29	21.69	46.00	-24.31
924.34	S	Peak	27.06	-2.33	24.73	46.00	-21.27
11490.00	H	Average	22.52	17.60	40.12	54.00	-13.88
11490.00	H	Peak	35.36	17.60	52.96	74.00	-21.04
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	30.67	-13.76	16.91	40.00	-23.09
147.37	S	Peak	27.12	-12.53	14.59	43.50	-28.91
339.43	S	Peak	27.03	-11.82	15.21	46.00	-30.79
501.42	S	Peak	27.39	-9.55	17.84	46.00	-28.16
684.75	S	Peak	27.26	-5.96	21.30	46.00	-24.70
861.29	S	Peak	27.38	-3.50	23.88	46.00	-22.12
11490.00	H	Average	22.21	17.40	39.61	54.00	-14.39
11490.00	H	Peak	32.38	17.40	49.78	74.00	-24.22
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.65	-13.70	28.95	40.00	-11.05
157.07	S	Peak	29.66	-12.29	17.37	43.50	-26.13
343.31	S	Peak	29.30	-11.76	17.54	46.00	-28.46
555.74	S	Peak	28.43	-8.47	19.96	46.00	-26.04
727.43	S	Peak	28.78	-5.32	23.46	46.00	-22.54
903.00	S	Peak	27.32	-2.75	24.57	46.00	-21.43
11570.00	H	Average	25.12	17.69	42.81	54.00	-11.19
11570.00	H	Peak	35.57	17.69	53.26	74.00	-20.74
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	26.81	-13.70	13.11	40.00	-26.89
155.13	S	Peak	25.15	-12.30	12.85	43.50	-30.65
402.48	S	Peak	25.29	-11.00	14.29	46.00	-31.71
595.51	S	Peak	25.98	-7.66	18.32	46.00	-27.68
805.03	S	Peak	26.54	-4.14	22.40	46.00	-23.60
965.08	S	Peak	26.27	-2.04	24.23	54.00	-29.77
11570.00	H	Average	21.05	17.49	38.54	54.00	-15.46
11570.00	H	Peak	34.42	17.49	51.91	74.00	-22.09
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
40.67	S	Peak	42.59	-13.48	29.11	40.00	-10.89
157.07	S	Peak	29.12	-12.29	16.83	43.50	-26.67
343.31	S	Peak	27.65	-11.76	15.89	46.00	-30.11
527.61	S	Peak	27.85	-9.03	18.82	46.00	-27.18
688.63	S	Peak	28.18	-5.90	22.28	46.00	-23.72
910.76	S	Peak	27.25	-2.61	24.64	46.00	-21.36
11650.00	H	Average	24.35	17.78	42.13	54.00	-11.87
11650.00	H	Peak	34.79	17.78	52.57	74.00	-21.43
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	30.66	-13.76	16.90	40.00	-23.10
158.04	S	Peak	27.88	-12.30	15.58	43.50	-27.92
312.27	S	Peak	27.05	-12.27	14.78	46.00	-31.22
509.18	S	Peak	27.67	-9.41	18.26	46.00	-27.74
677.96	S	Peak	27.76	-6.06	21.70	46.00	-24.30
902.03	S	Peak	26.27	-2.77	23.50	46.00	-22.50
11650.00	H	Average	22.35	17.58	39.93	54.00	-14.07
11650.00	H	Peak	34.25	17.58	51.83	74.00	-22.17
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	:2013-05-01
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	43.40	-13.70	29.70	40.00	-10.30
157.07	S	Peak	27.31	-12.29	15.02	43.50	-28.48
343.31	S	Peak	27.37	-11.76	15.61	46.00	-30.39
508.21	S	Peak	27.38	-9.43	17.95	46.00	-28.05
734.22	S	Peak	27.93	-5.23	22.70	46.00	-23.30
928.22	S	Peak	27.31	-2.30	25.01	46.00	-20.99
11510.00	H	Average	24.62	17.67	42.29	54.00	-11.71
11510.00	H	Peak	35.73	17.67	53.40	74.00	-20.60
17265.00	H	---					
23020.00	H	---					
28775.00	H	---					
34530.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	30.64	-13.70	16.94	40.00	-23.06
165.80	S	Peak	26.00	-12.77	13.23	43.50	-30.27
378.23	S	Peak	26.73	-11.31	15.42	46.00	-30.58
599.39	S	Peak	28.20	-7.57	20.63	46.00	-25.37
764.29	S	Peak	27.49	-4.72	22.77	46.00	-23.23
912.70	S	Peak	27.49	-2.57	24.92	46.00	-21.08
11510.00	H	Average	22.59	17.47	40.06	54.00	-13.94
11510.00	H	Peak	35.16	17.47	52.63	74.00	-21.37
17265.00	H	---					
23020.00	H	---					
28775.00	H	---					
34530.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
43.58	S	Peak	42.60	-13.70	28.90	40.00	-11.10
114.39	S	Peak	31.78	-15.22	16.56	43.50	-26.94
343.31	S	Peak	27.60	-11.76	15.84	46.00	-30.16
549.92	S	Peak	28.19	-8.58	19.61	46.00	-26.39
724.52	S	Peak	27.85	-5.37	22.48	46.00	-23.52
922.40	S	Peak	26.81	-2.37	24.44	46.00	-21.56
11590.00	H	Average	26.08	17.69	43.77	54.00	-10.23
11590.00	H	Peak	37.18	17.69	54.87	74.00	-19.13
17385.00	H	---					
23180.00	H	---					
28975.00	H	---					
34770.00	H	---					

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Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 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
44.55	S	Peak	30.49	-13.76	16.73	40.00	-23.27
147.37	S	Peak	26.87	-12.53	14.34	43.50	-29.16
286.08	S	Peak	27.84	-12.89	14.95	46.00	-31.05
485.90	S	Peak	27.28	-9.74	17.54	46.00	-28.46
669.23	S	Peak	27.67	-6.21	21.46	46.00	-24.54
861.29	S	Peak	27.63	-3.50	24.13	46.00	-21.87
11590.00	H	Average	24.86	17.49	42.35	54.00	-11.65
11590.00	H	Peak	35.68	17.49	53.17	74.00	-20.83
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  $\geq 3$  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.

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11.5 Measurement Result:

802.11b

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-9.15	8
2437	-8.58	8
2462	-8.18	8

802.11g

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-12.83	8
2437	-12.51	8
2462	-12.98	8

802.11n\_20M

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
2412	-15.15	8
2437	-13.80	8
2462	-13.15	8

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802.11a

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5745	-14.44	8
5785	-14.03	8
5825	-13.07	8

802.11n (5GHz)\_20M

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5745	-14.40	8
5785	-13.72	8
5825	-14.45	8

802.11n (5GHz)\_40M

Frequency MHz	RF Power Density	Maximum Limit
	Reading (dBm)	(dBm)
5755	-19.03	8
5795	-18.94	8

\* Note: Offset 11dB for 2.4G 802.11b/g/n\_20;  
Offset 11.8dB for 5G 802.11a/n\_20/n\_40.

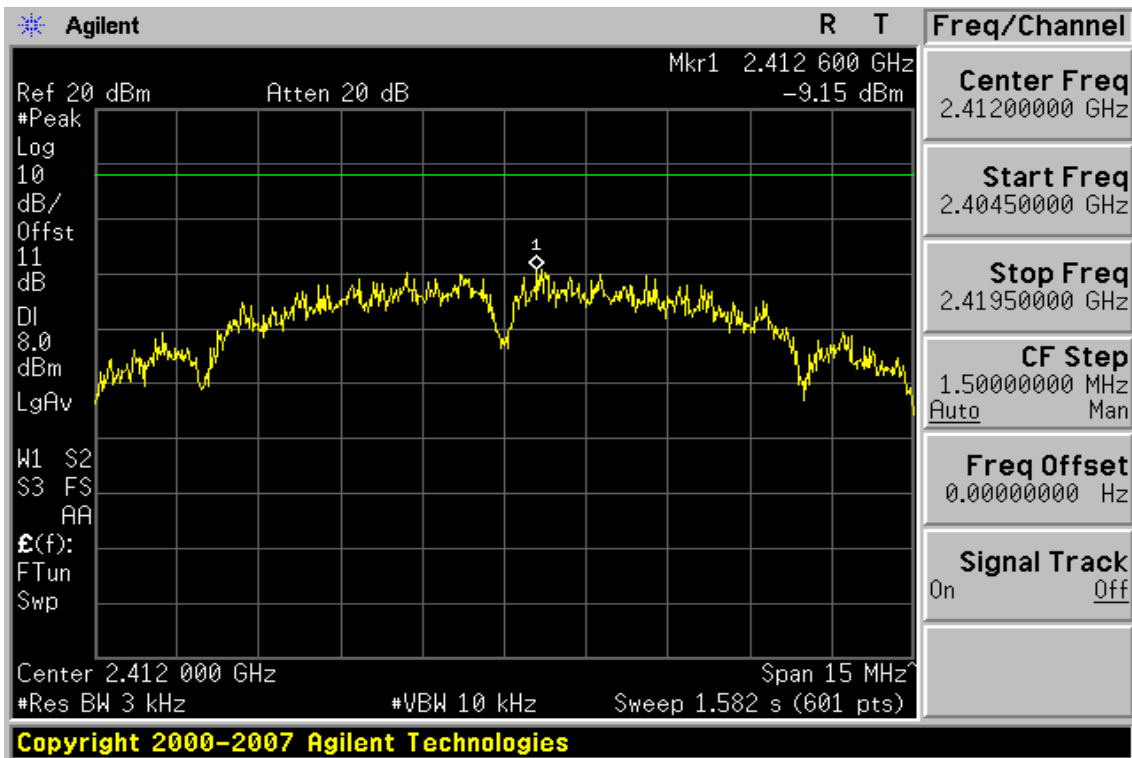
\*Refer to next page for plots

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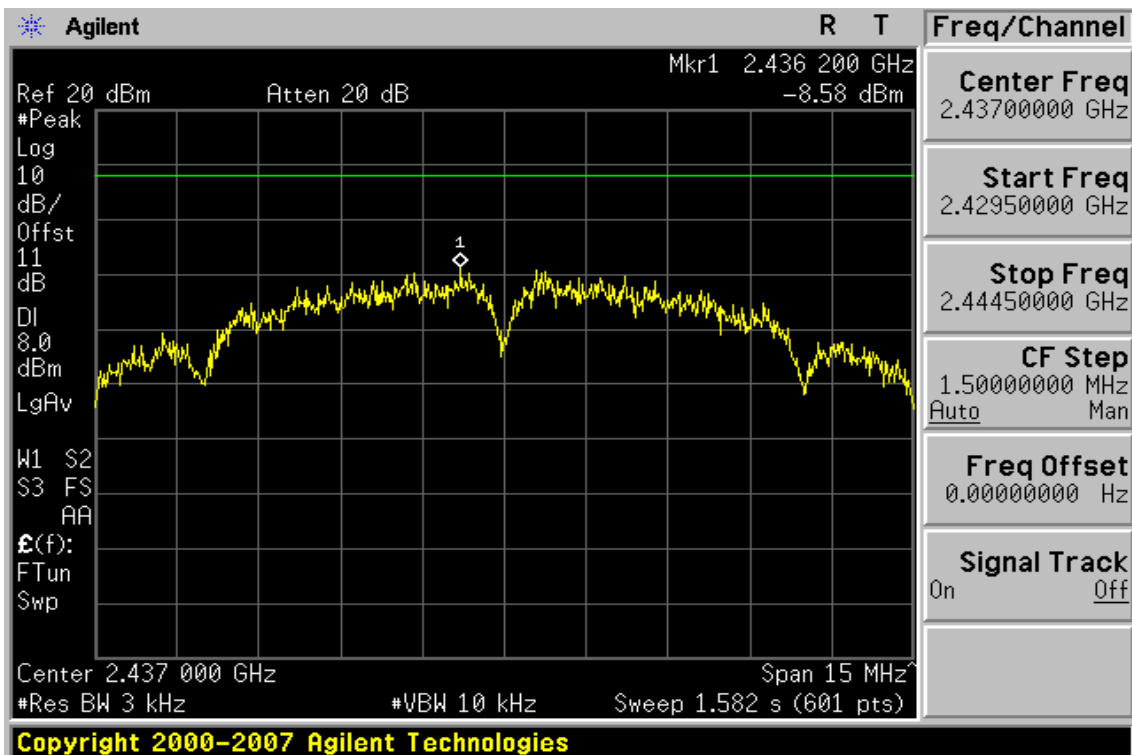
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

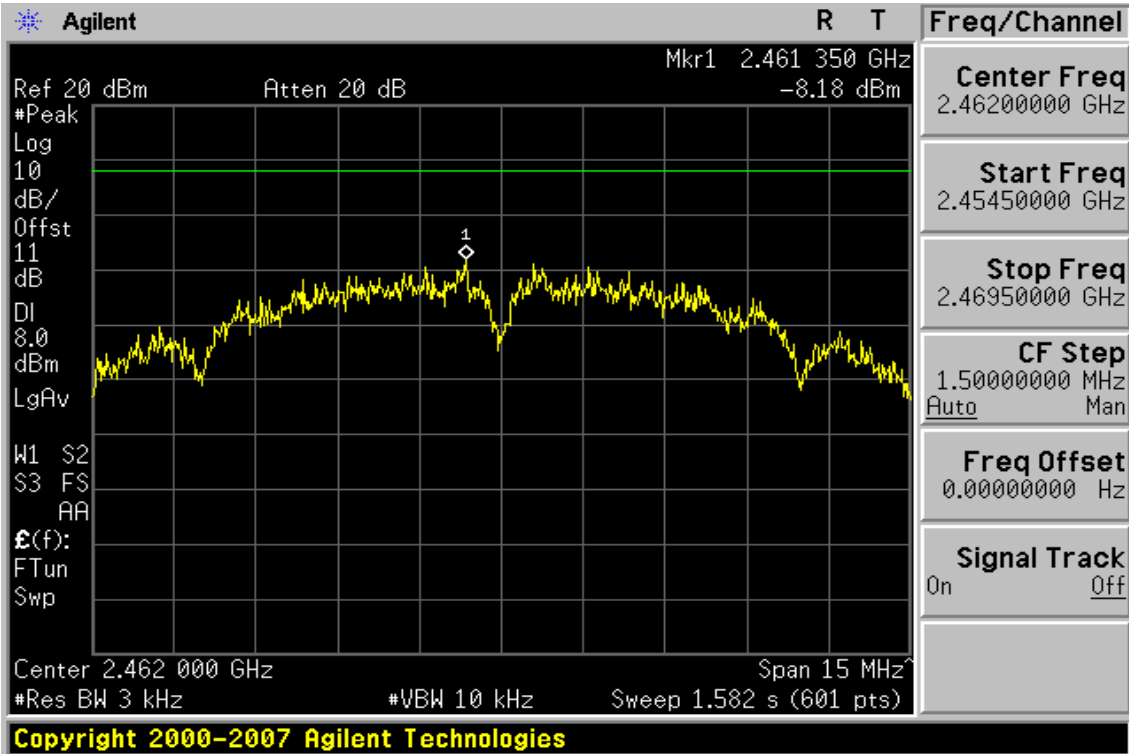


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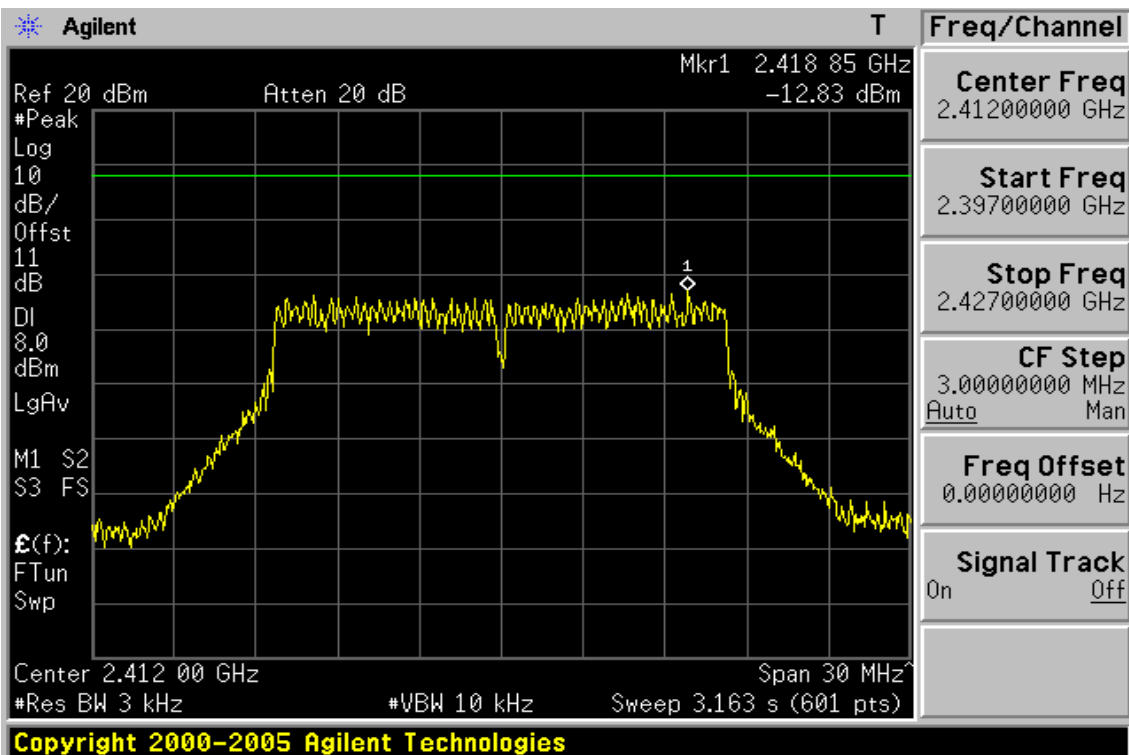
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**Power Spectral Density Test Plot (CH-High)**



**802.11g**

**Power Spectral Density Test Plot (CH-Low)**

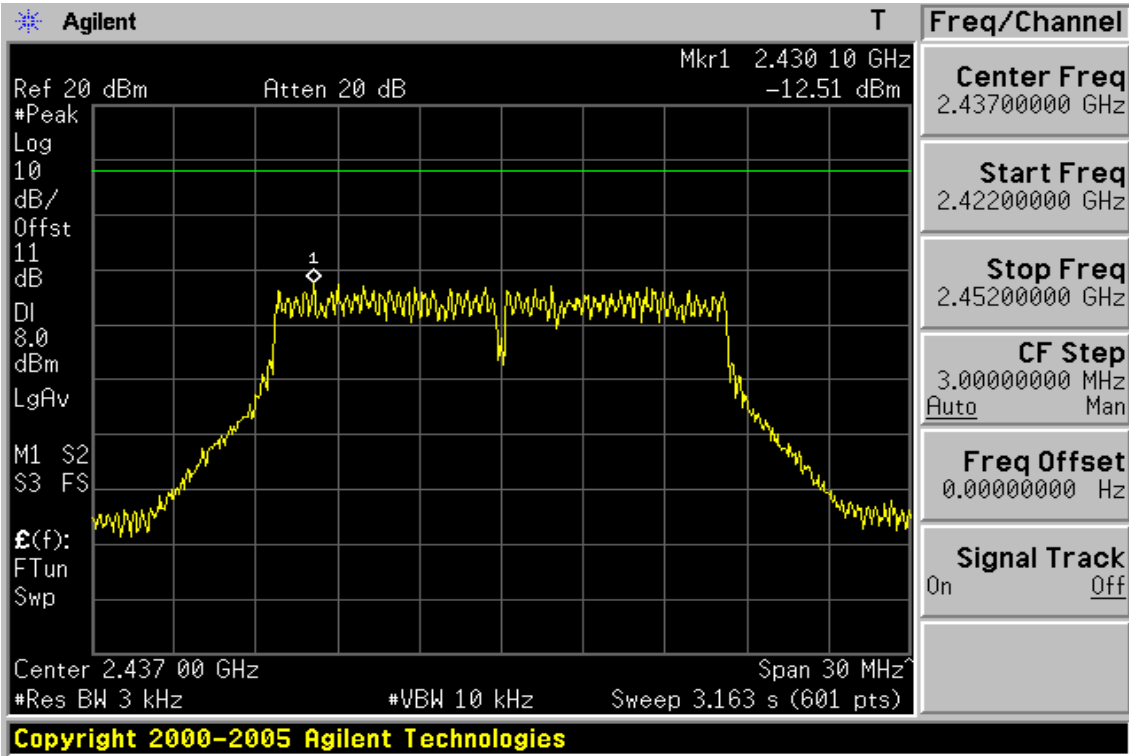


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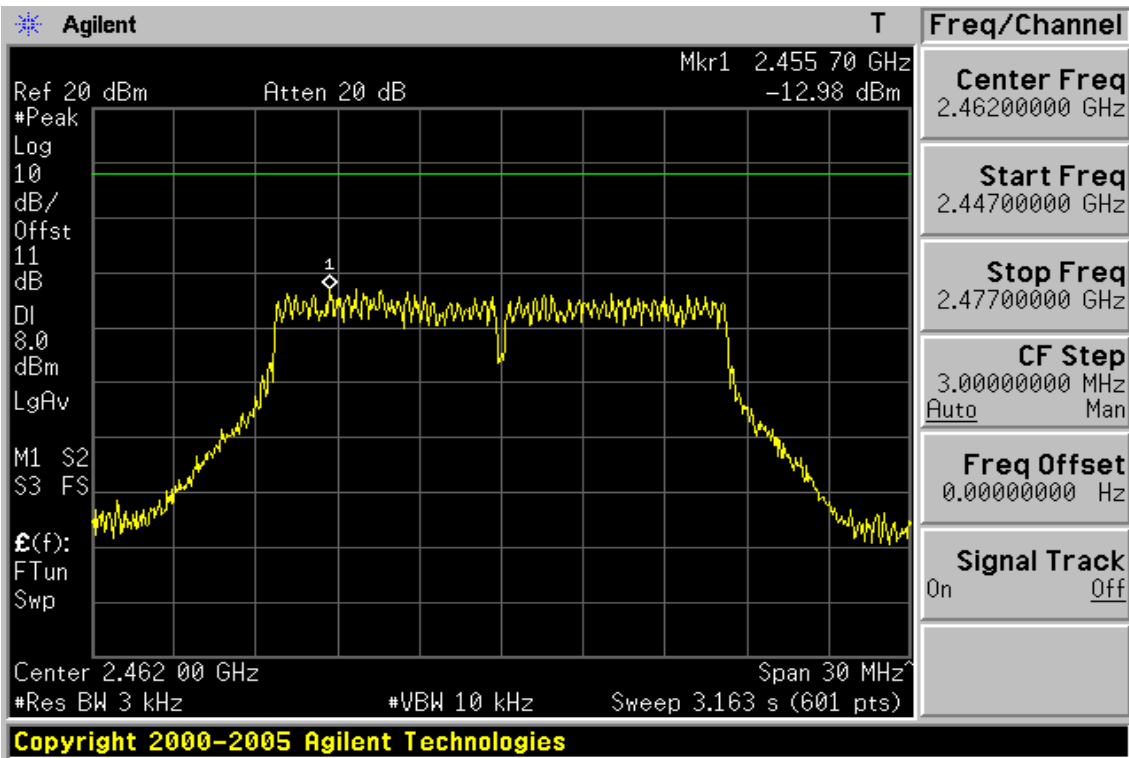
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**Power Spectral Density Test Plot (CH-Mid)**



**Power Spectral Density Test Plot (CH-High)**



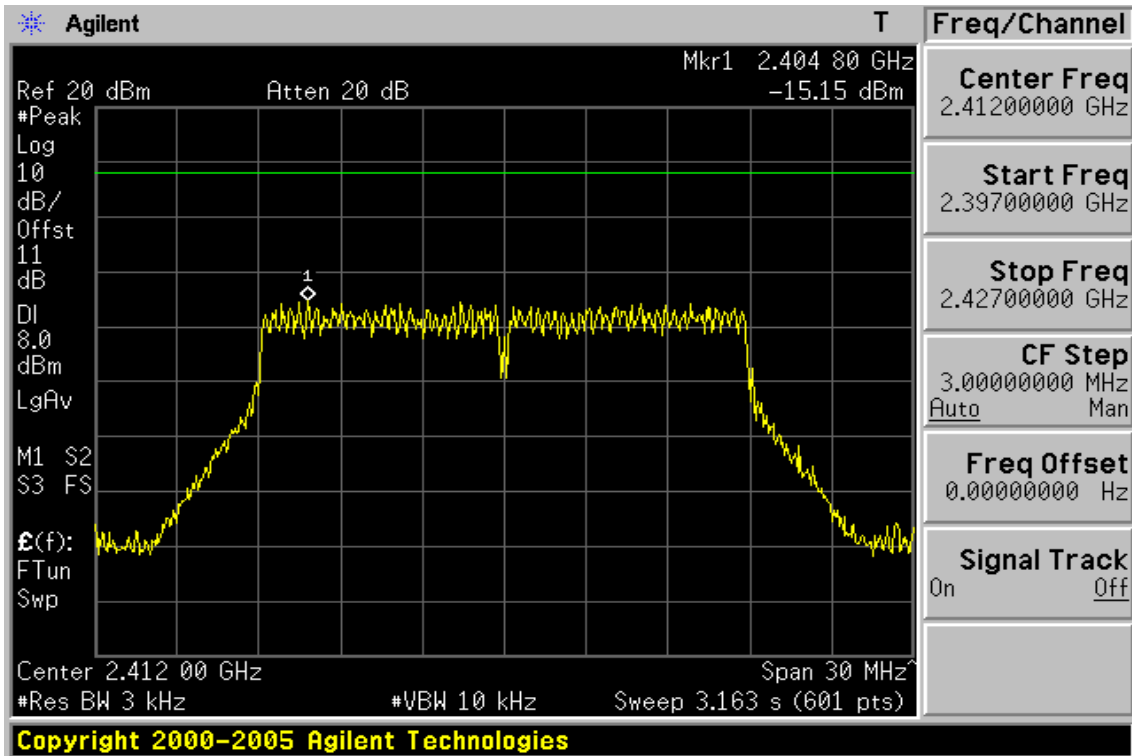
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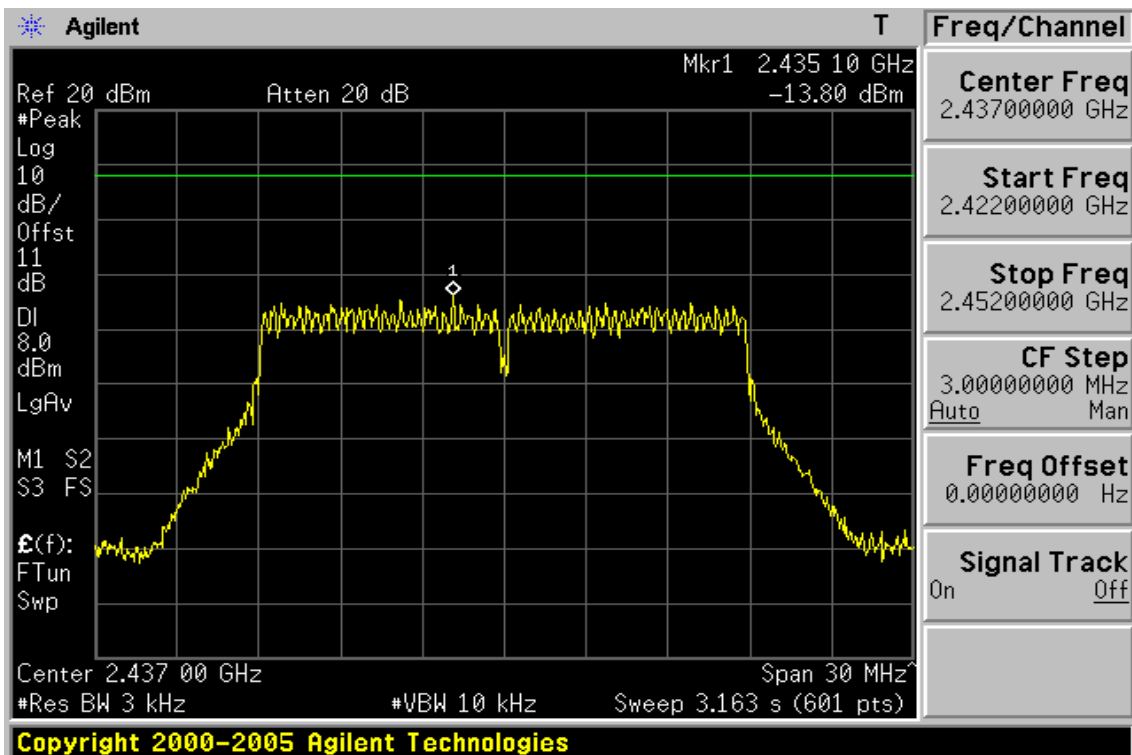
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802.11n\_20M

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

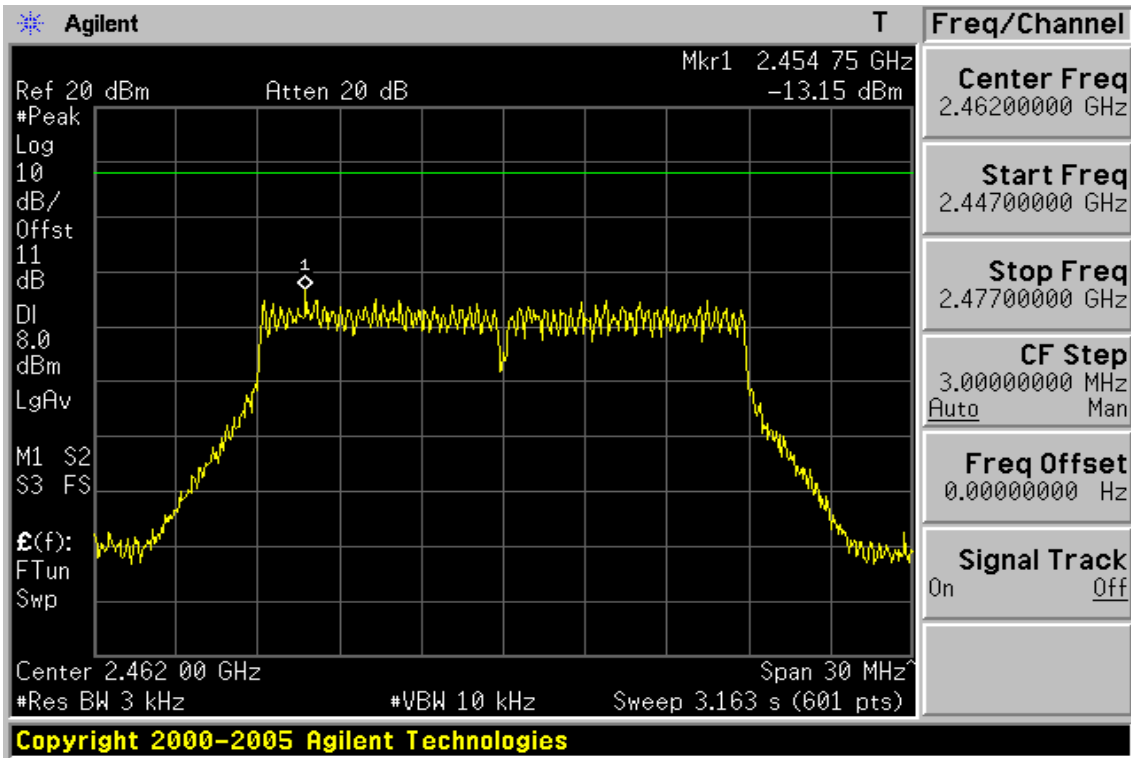


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**Power Spectral Density Test Plot (CH-High)**



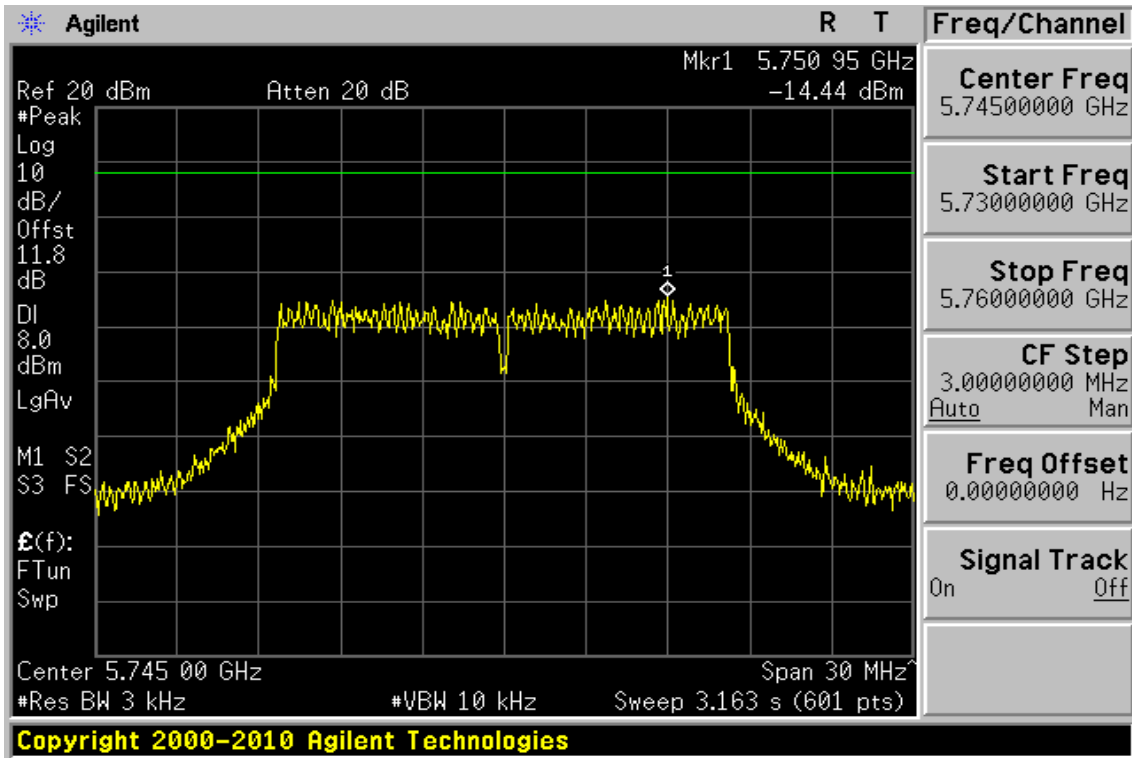
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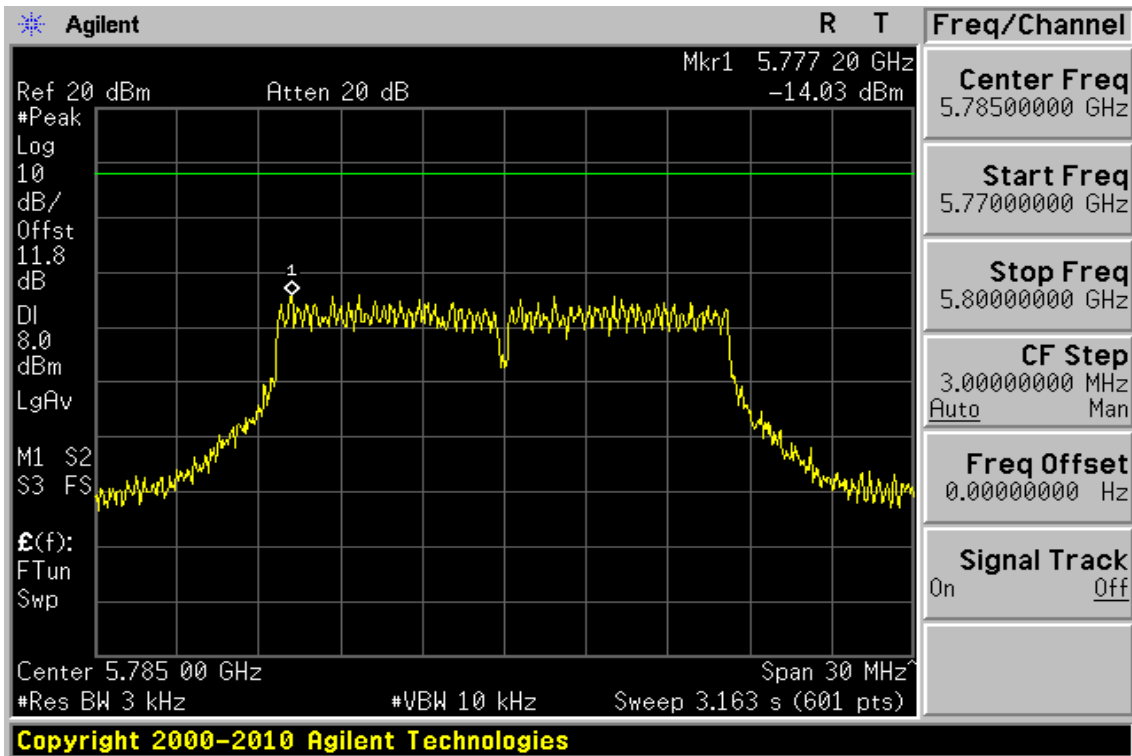
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802.11a

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



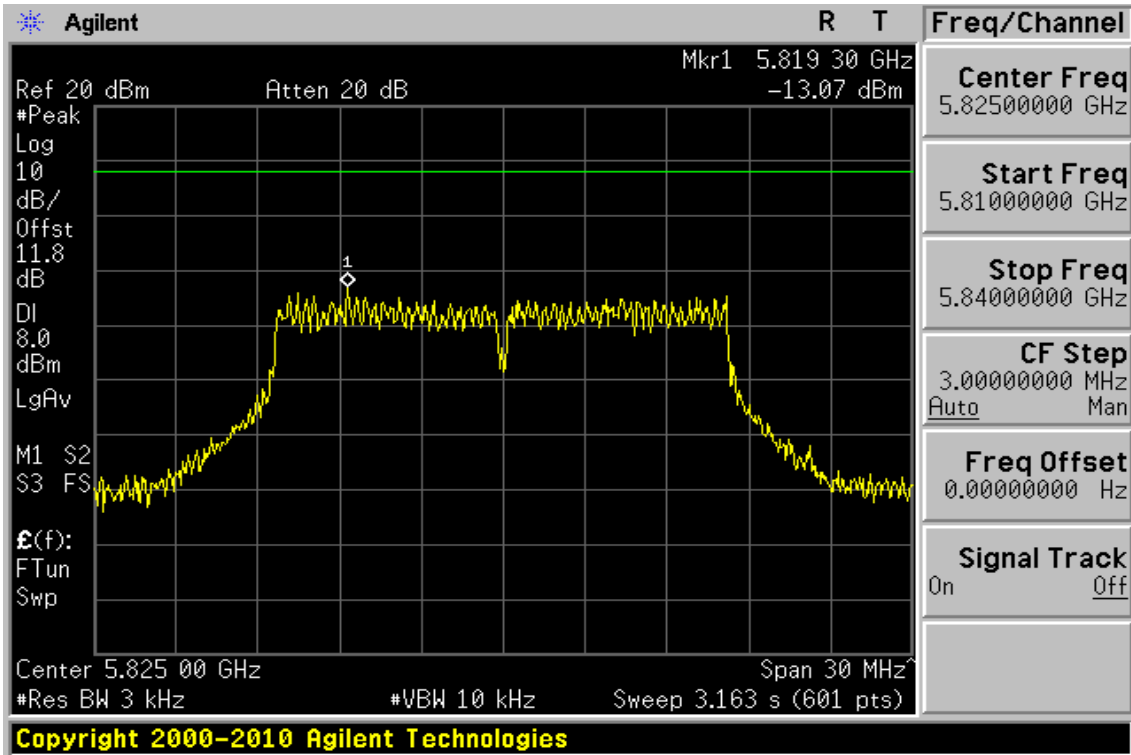
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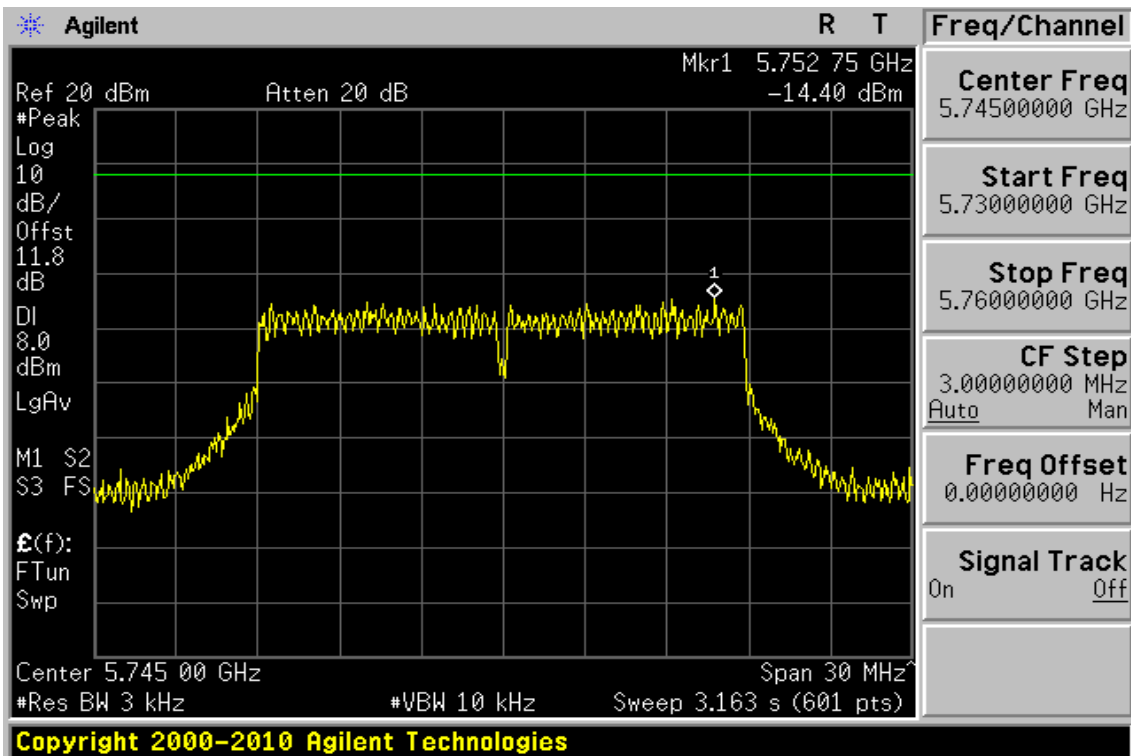


### Power Spectral Density Test Plot (CH-High)



### 802.11n (5GHz)\_20M

### Power Spectral Density Test Plot (CH-Low)

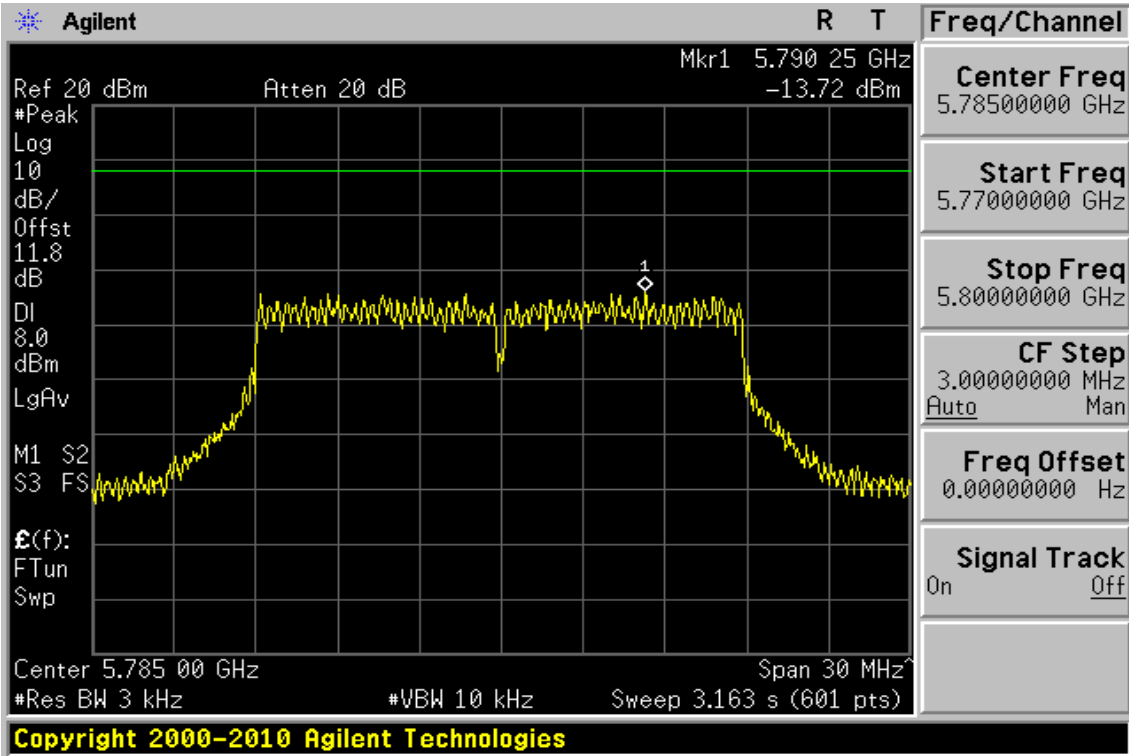


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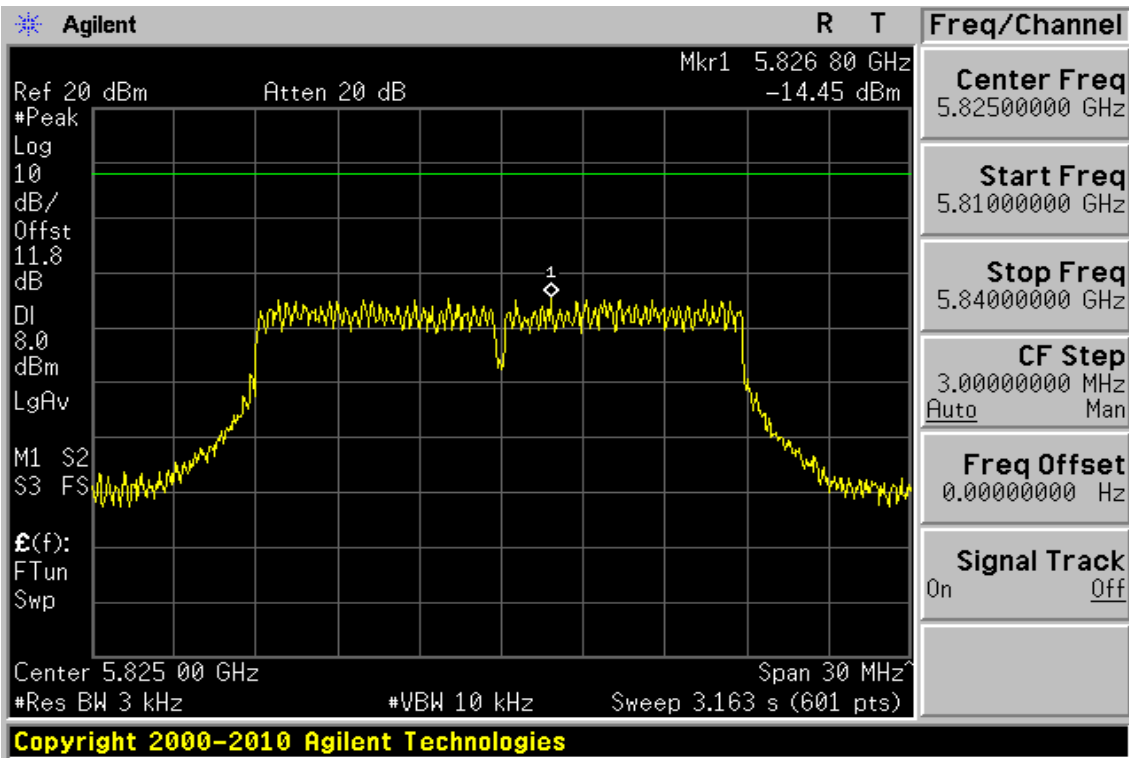
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**Power Spectral Density Test Plot (CH-Mid)**



**Power Spectral Density Test Plot (CH-High)**



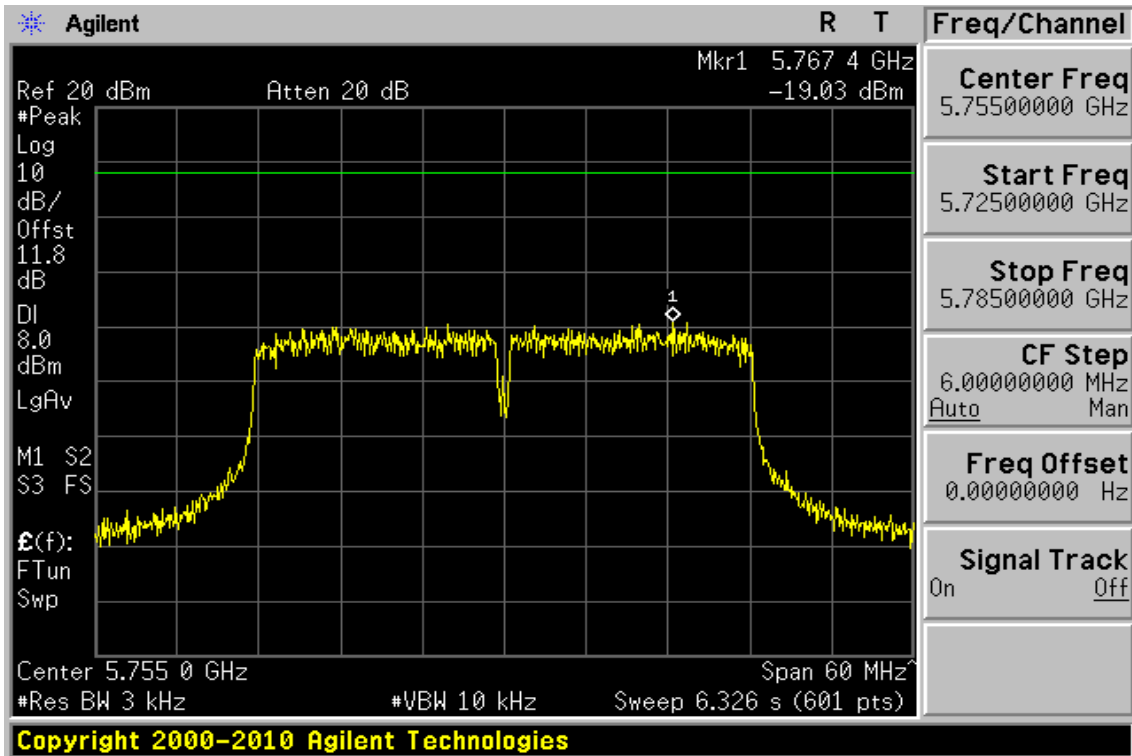
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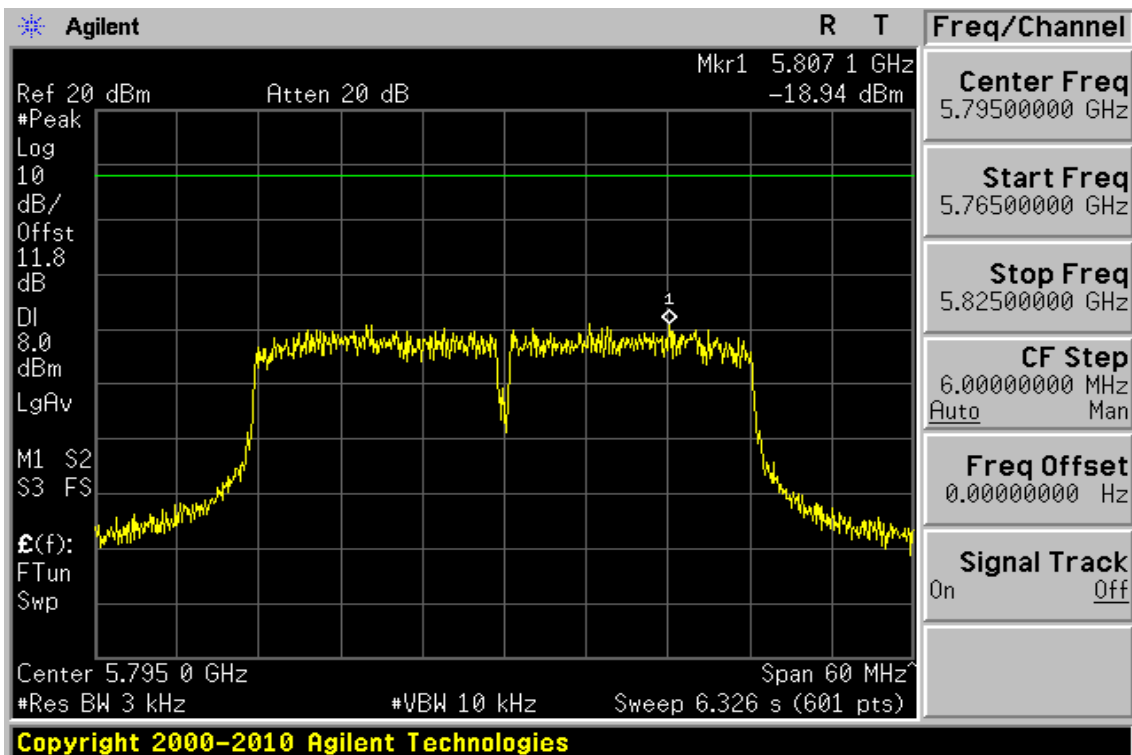
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802.11n (5GHz)\_40M

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 2.55dBi for 2.4GHz, 1.66dBi for 5725-5850 MHz and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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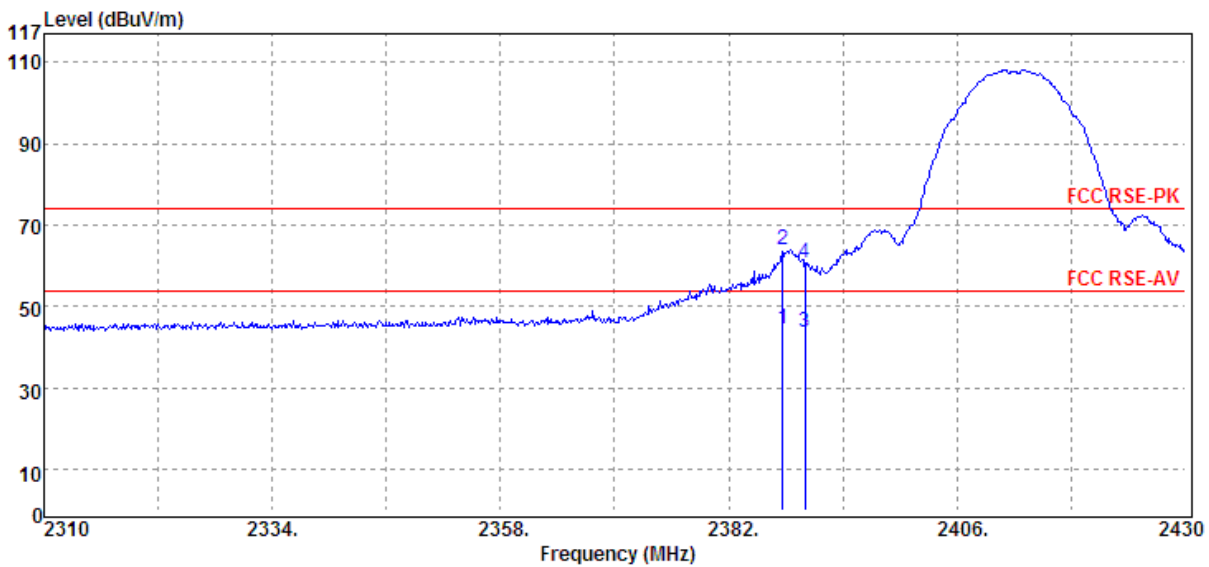
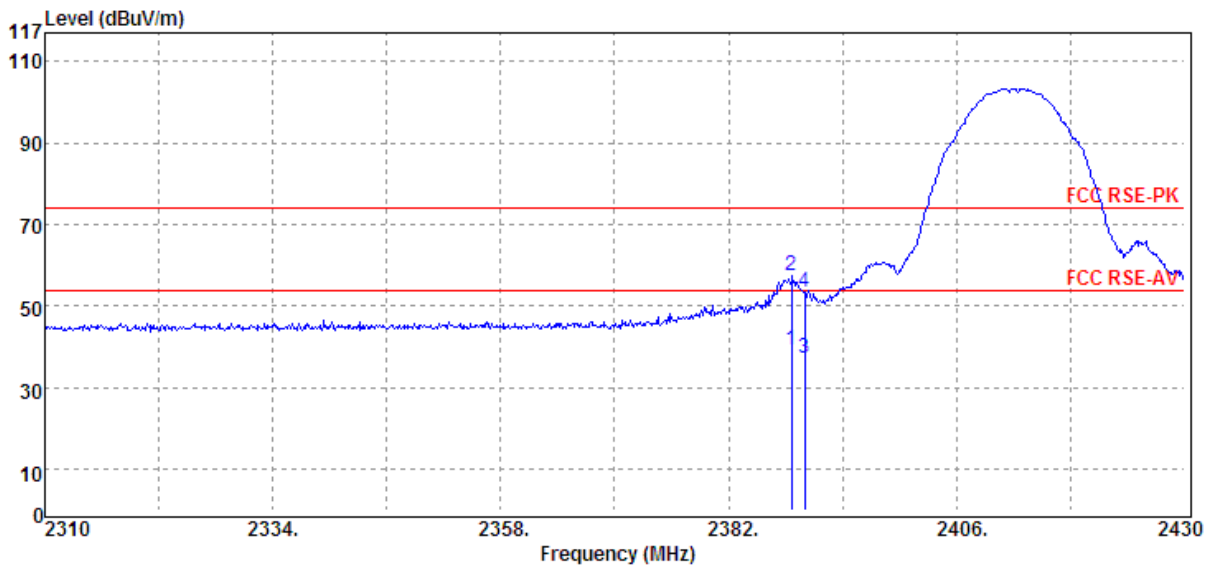
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**Band Edges Radiated Emission:**

**Note: The emission that surpasses the limit of peak represents the fundamental emission of the operation that does not account to be conformed to the limit of the interest.**

**802.11b**

Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

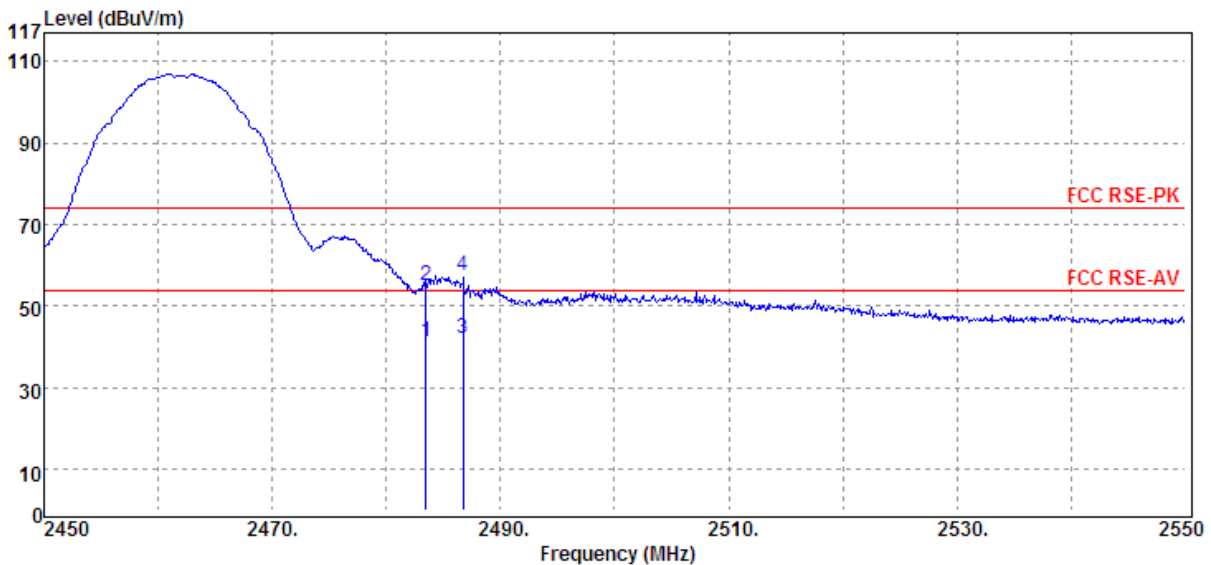
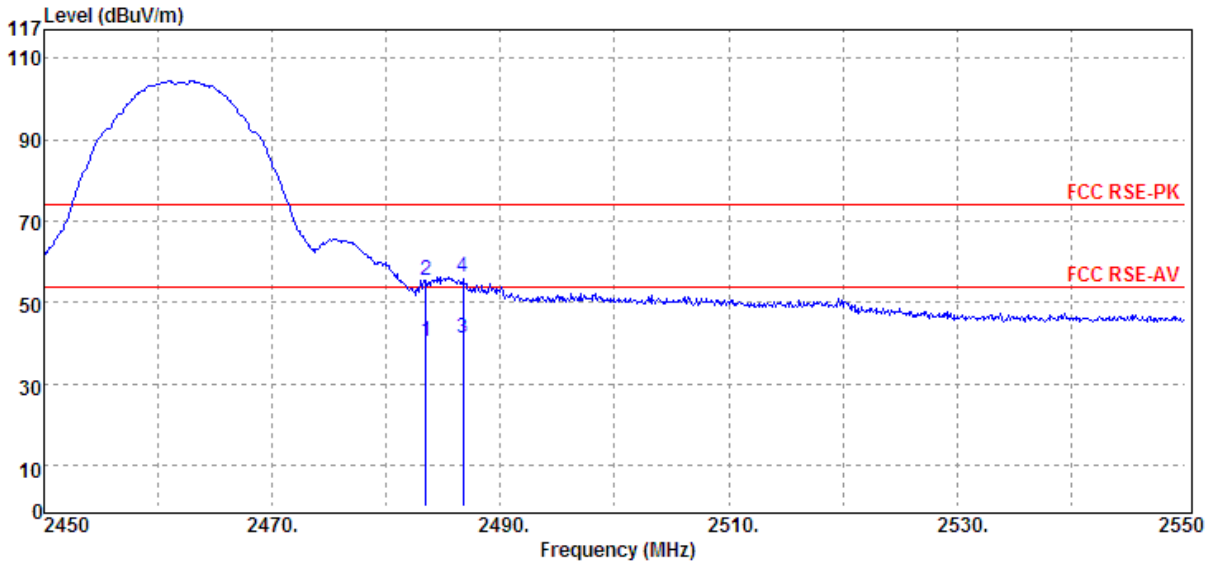


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Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2462 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



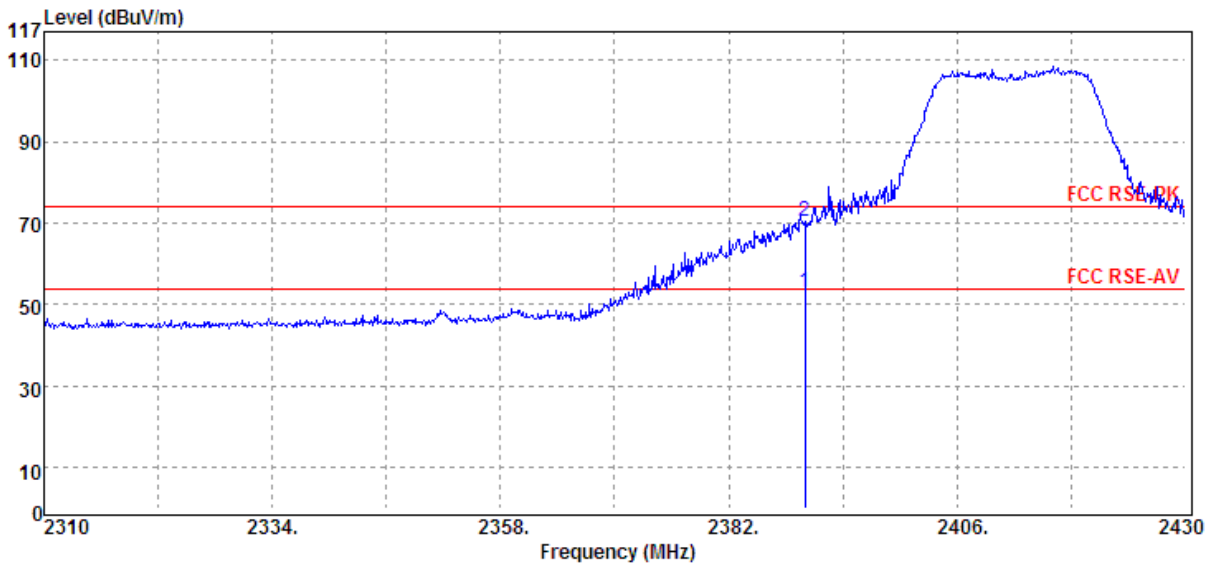
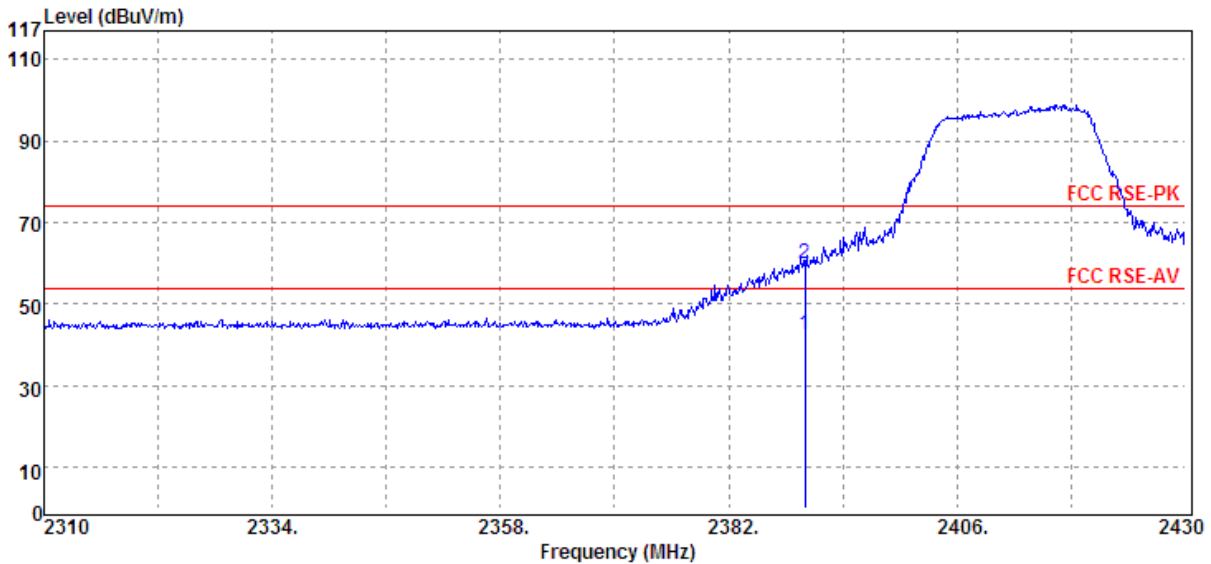
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**802.11g**

Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



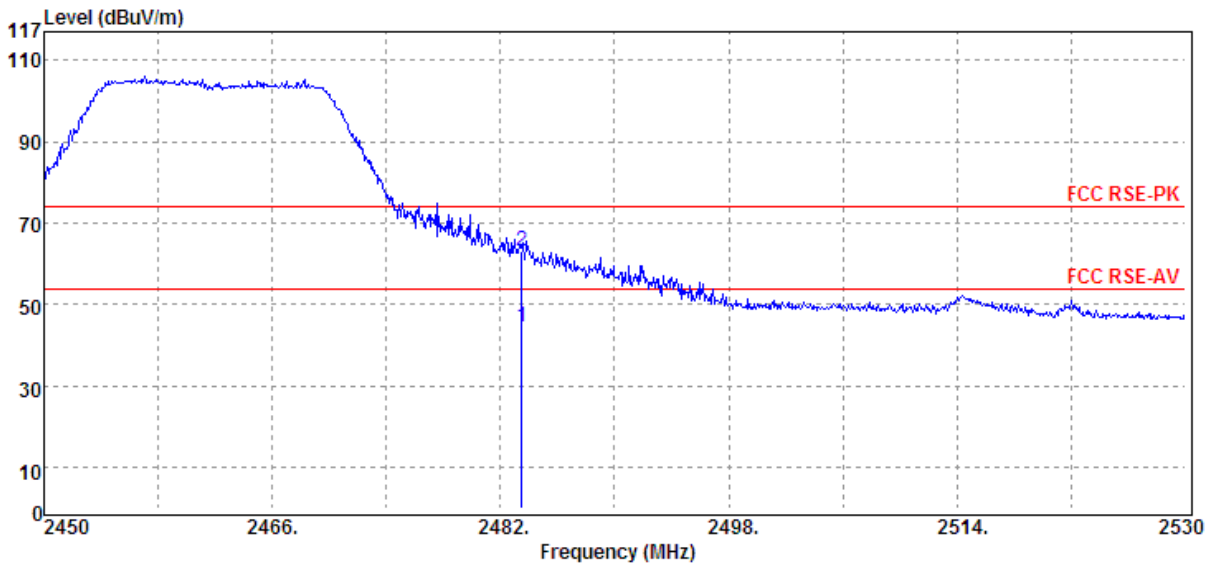
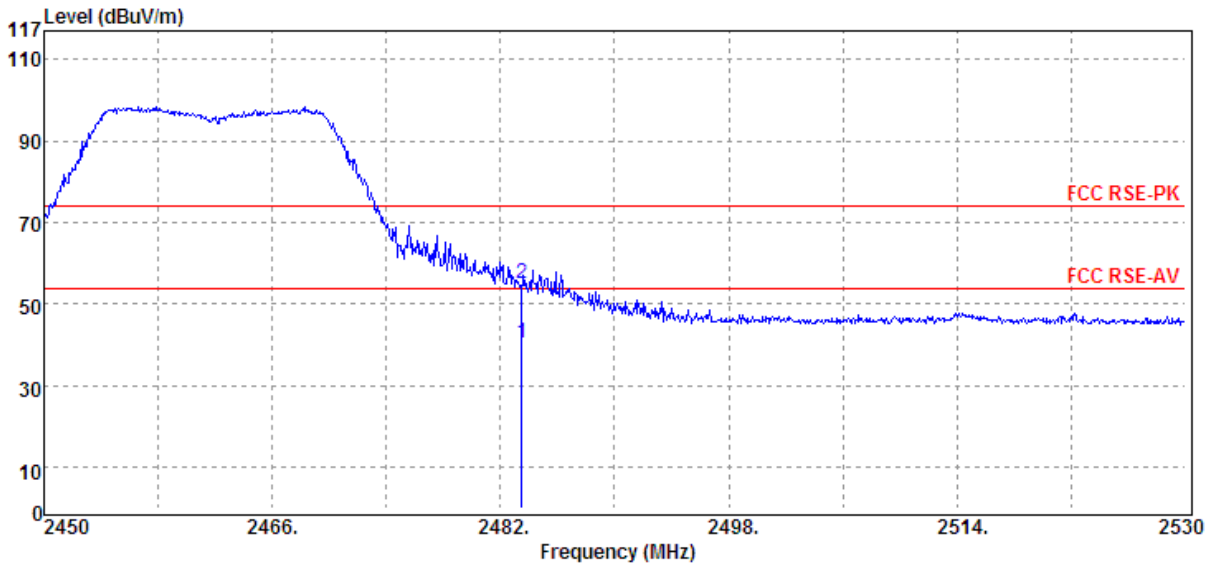
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Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



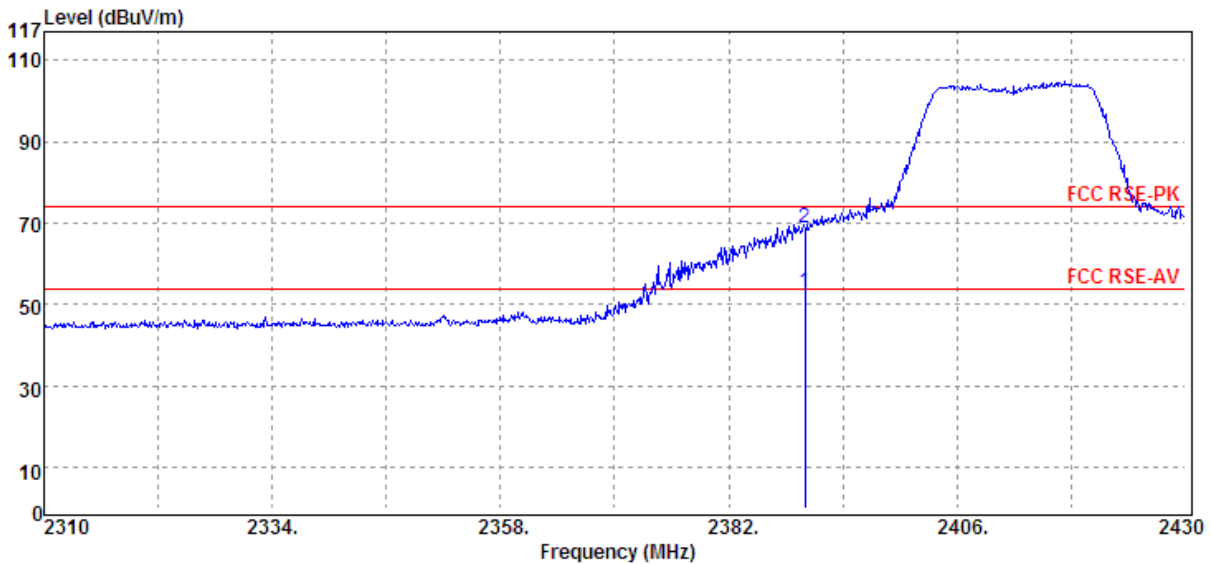
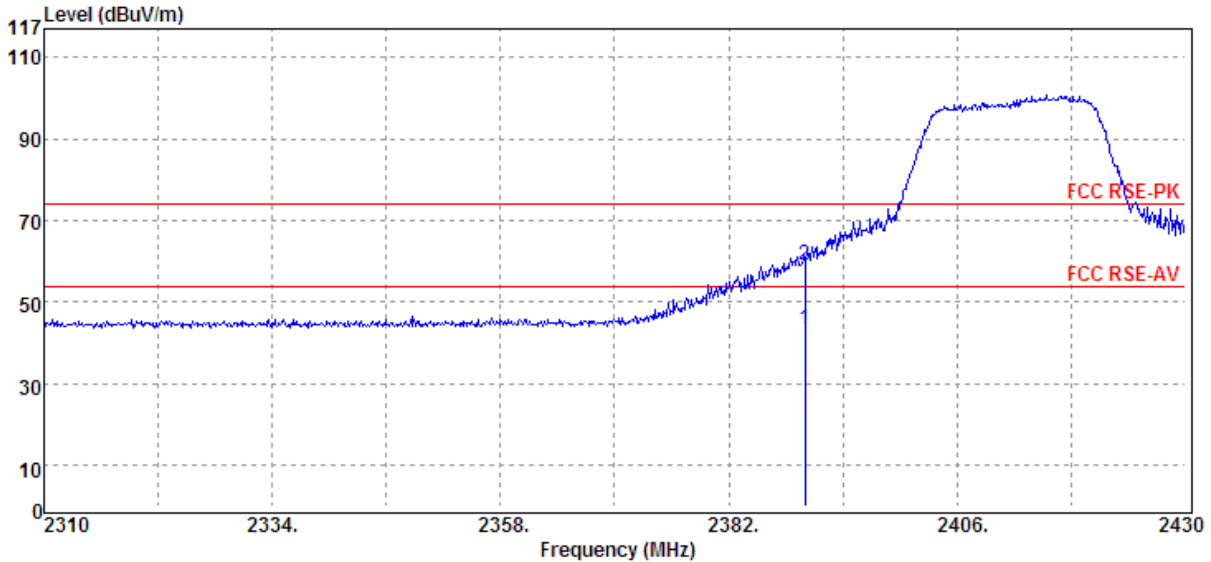
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**11n\_20 (2.4GHz)**

Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Nick
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

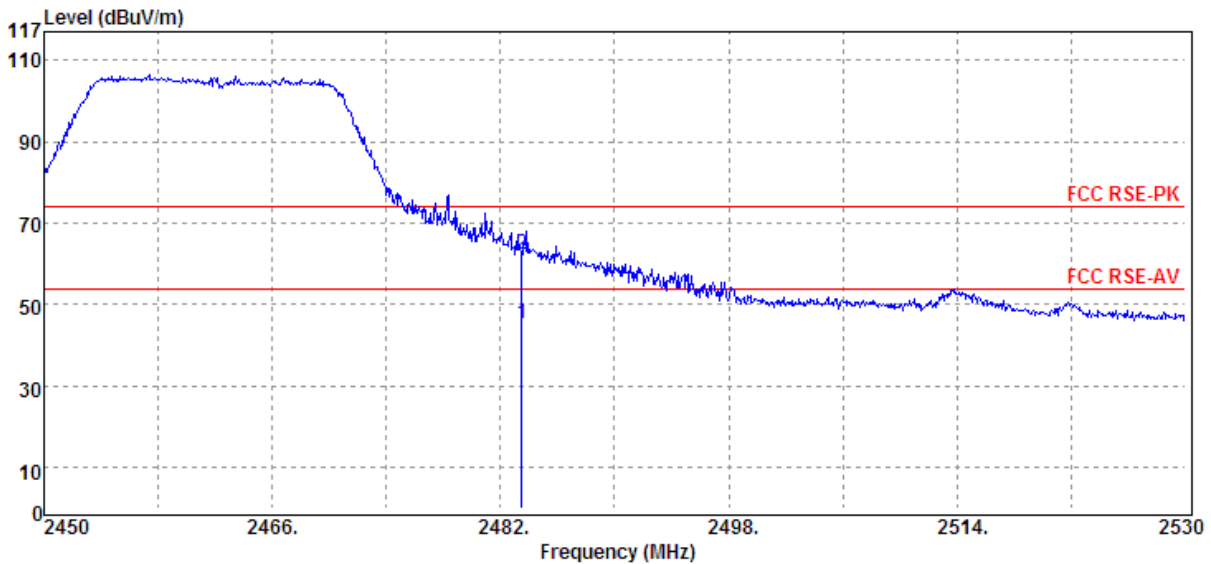
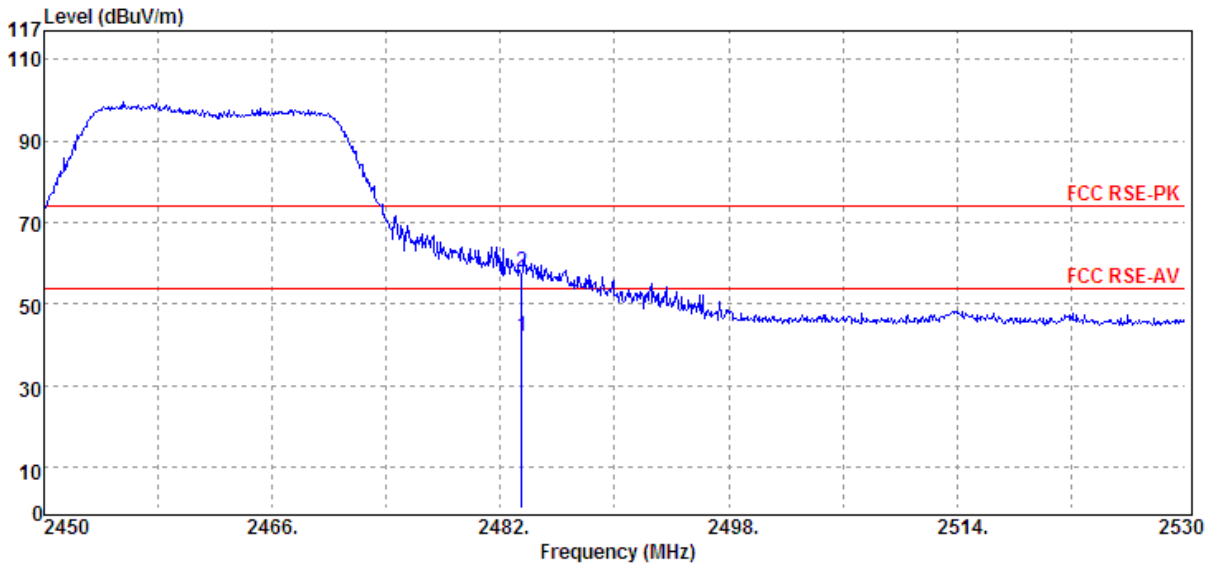


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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Nick
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



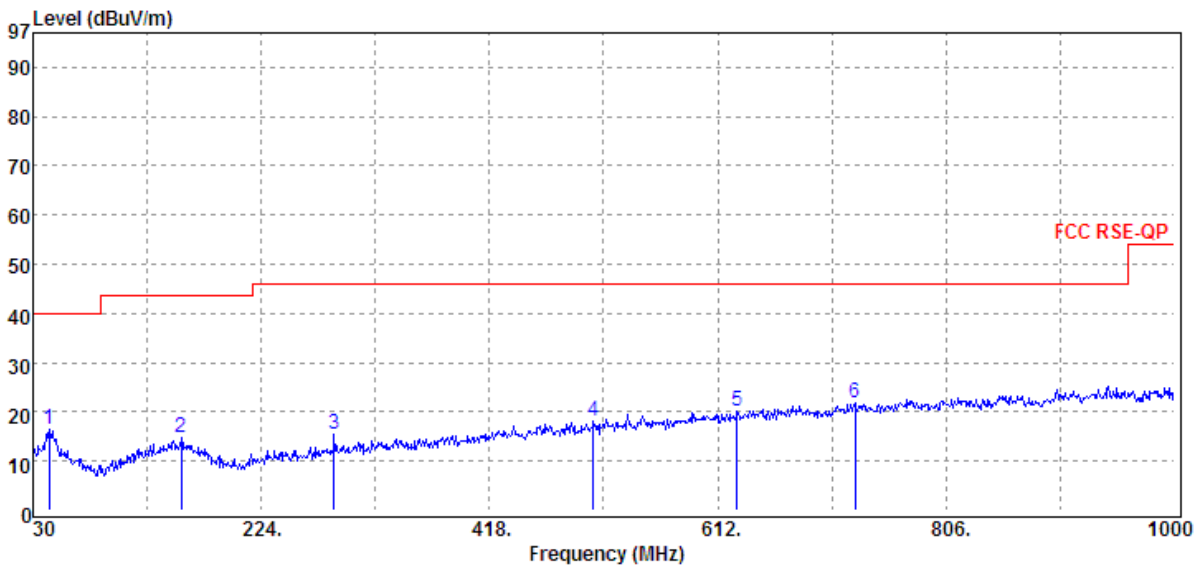
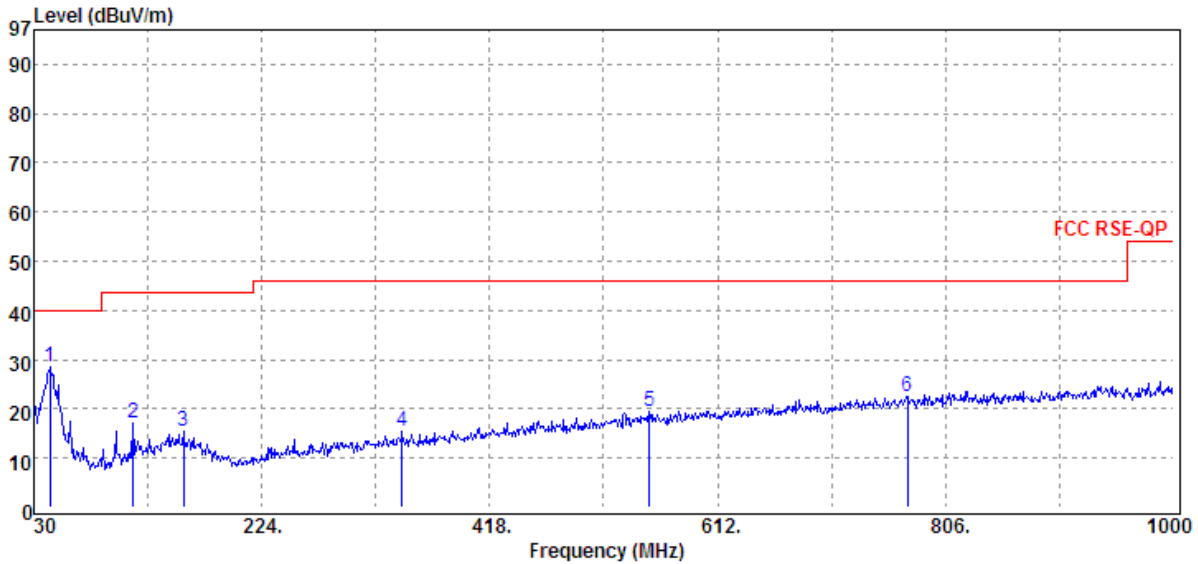
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**Radiated Spurious Emission Measurement photos Result (below 1GHz)**

Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:JJ
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

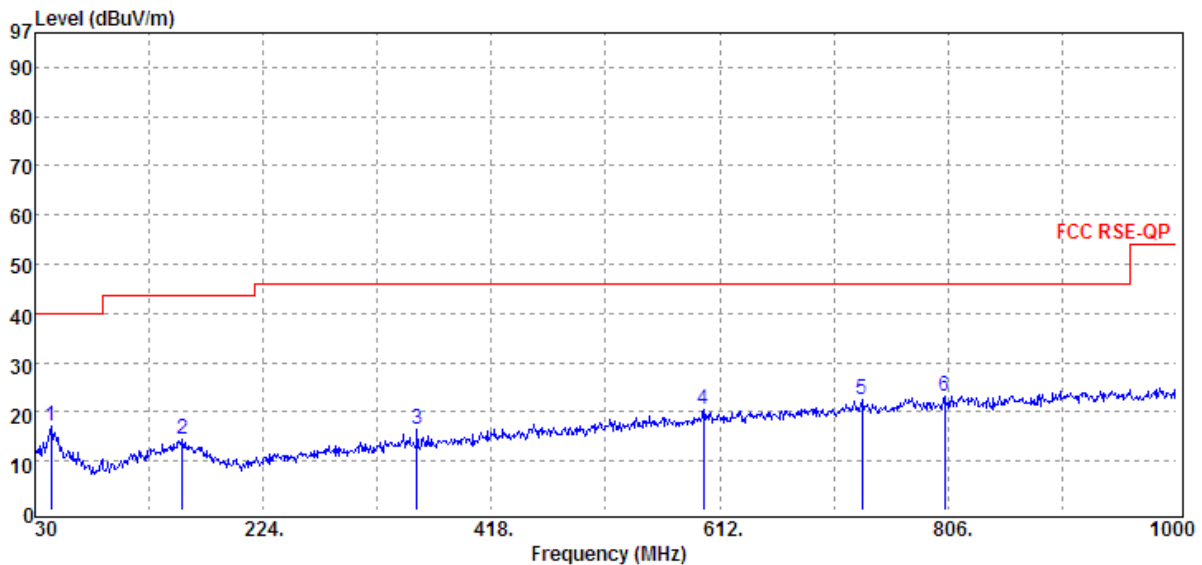
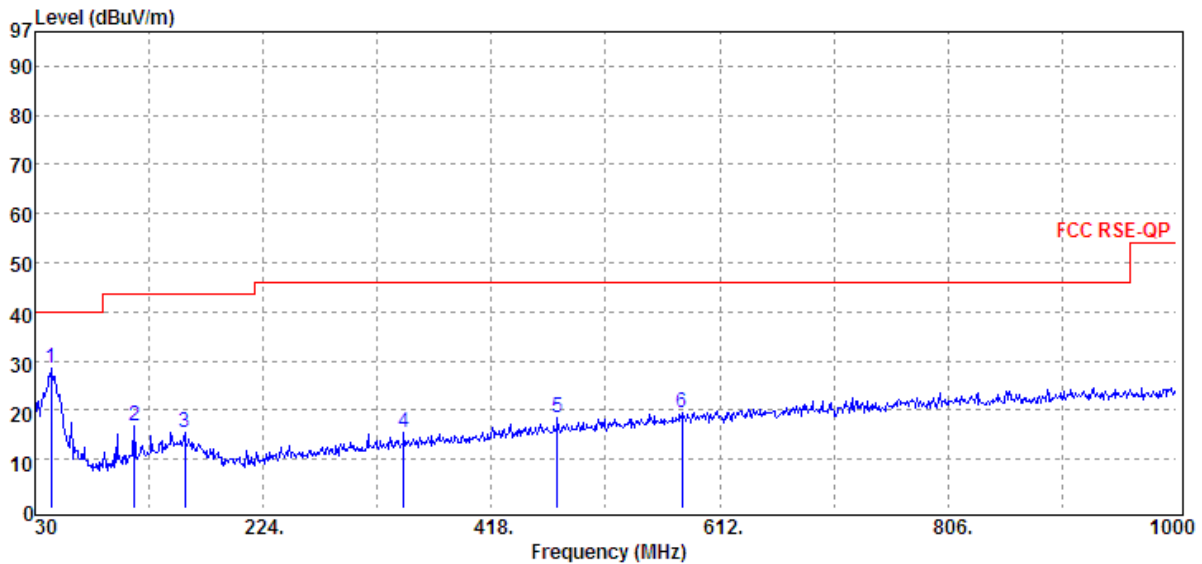


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Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2437 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

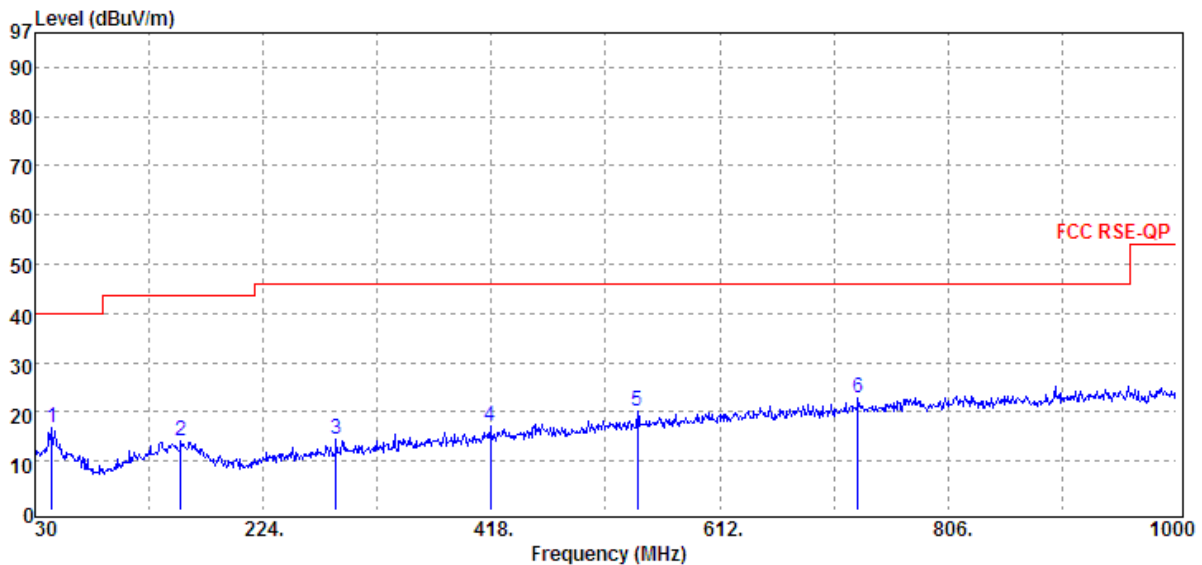
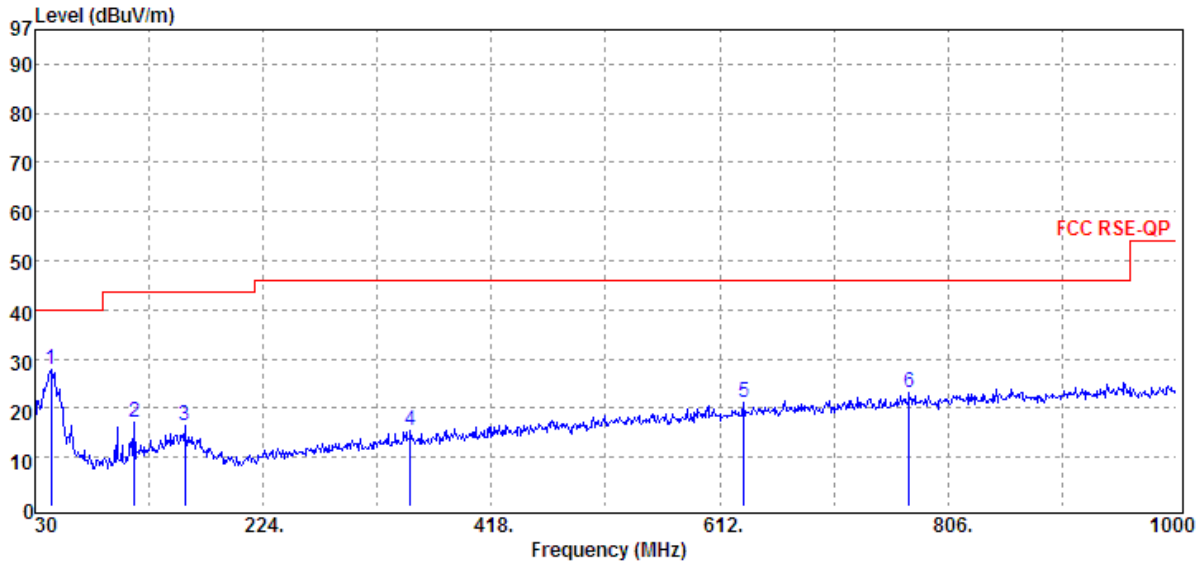


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Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2462 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	: E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



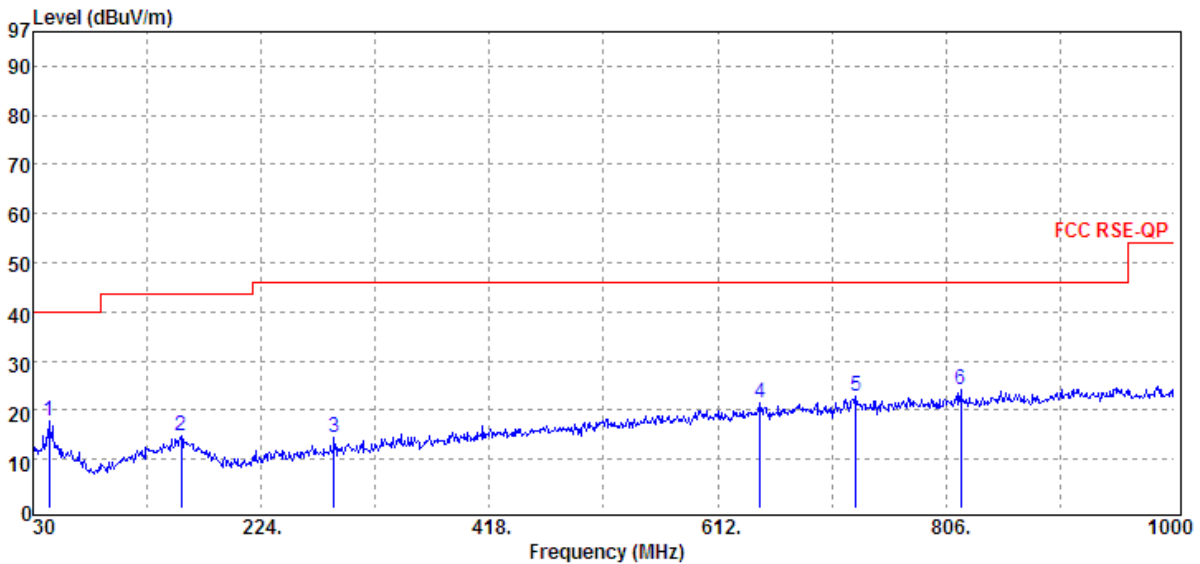
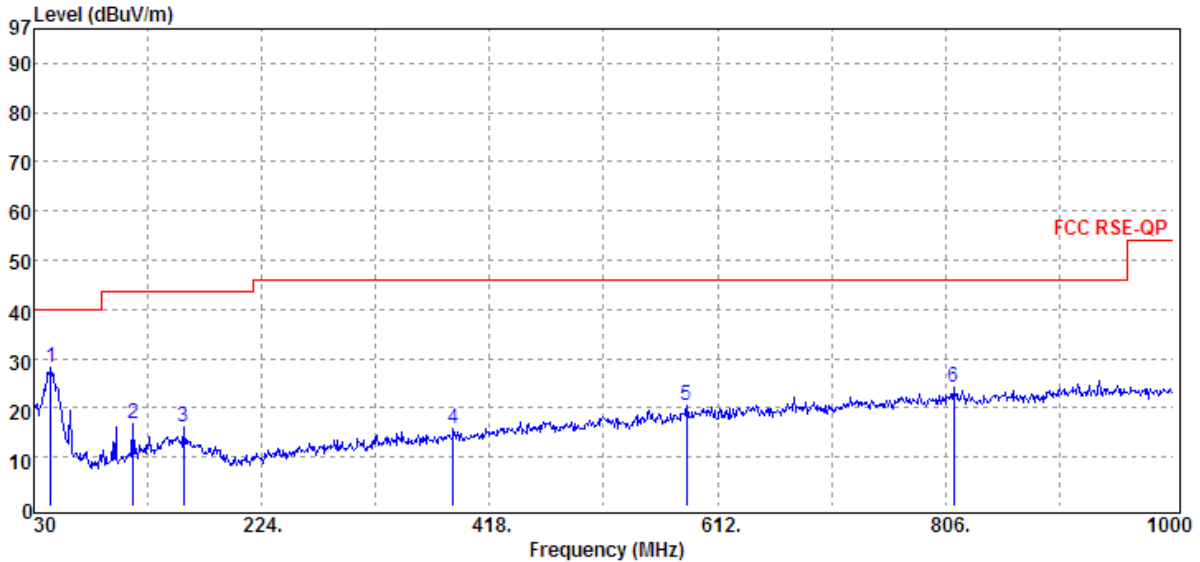
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Operation Band :802.11 g  
 Fundamental Frequency :2412 MHz  
 Operation Mode :TX LOW  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.



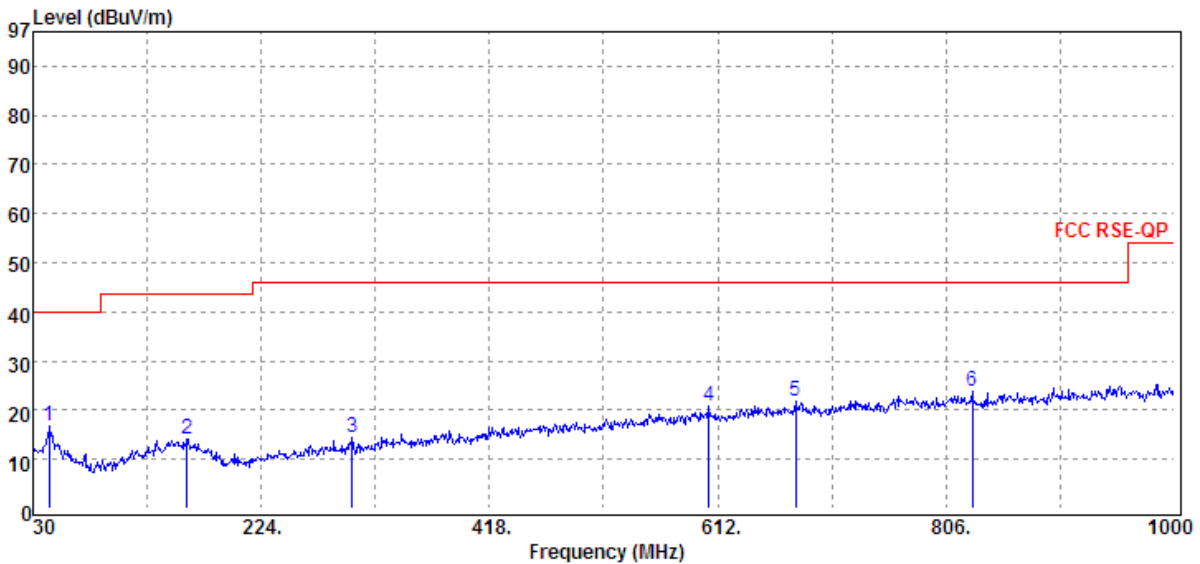
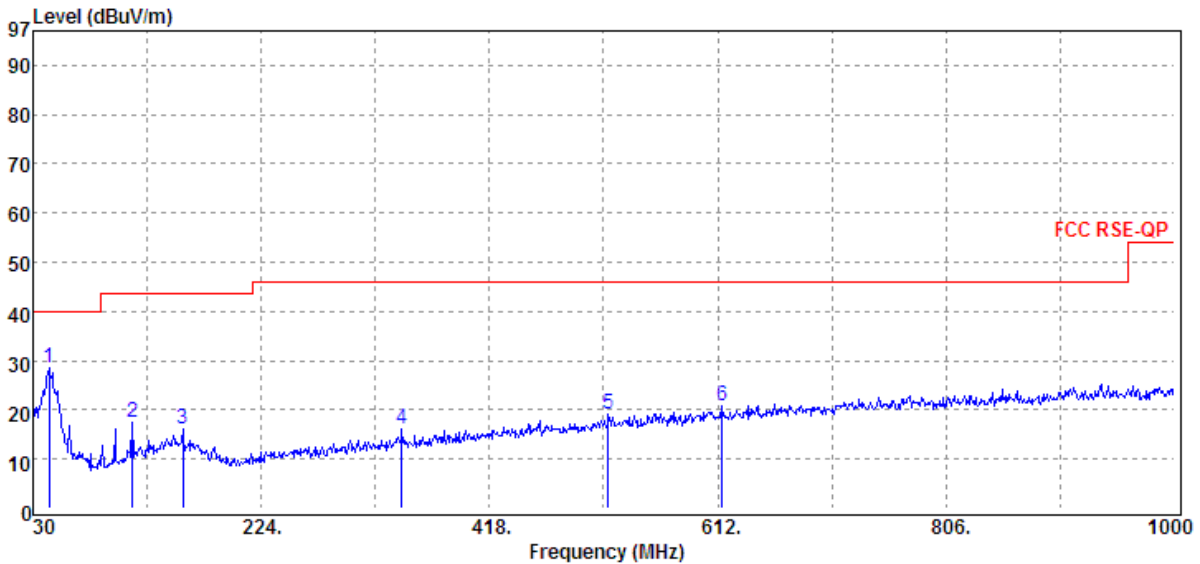
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Operation Band :802.11 g  
 Fundamental Frequency :2437 MHz  
 Operation Mode :TX MID  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.



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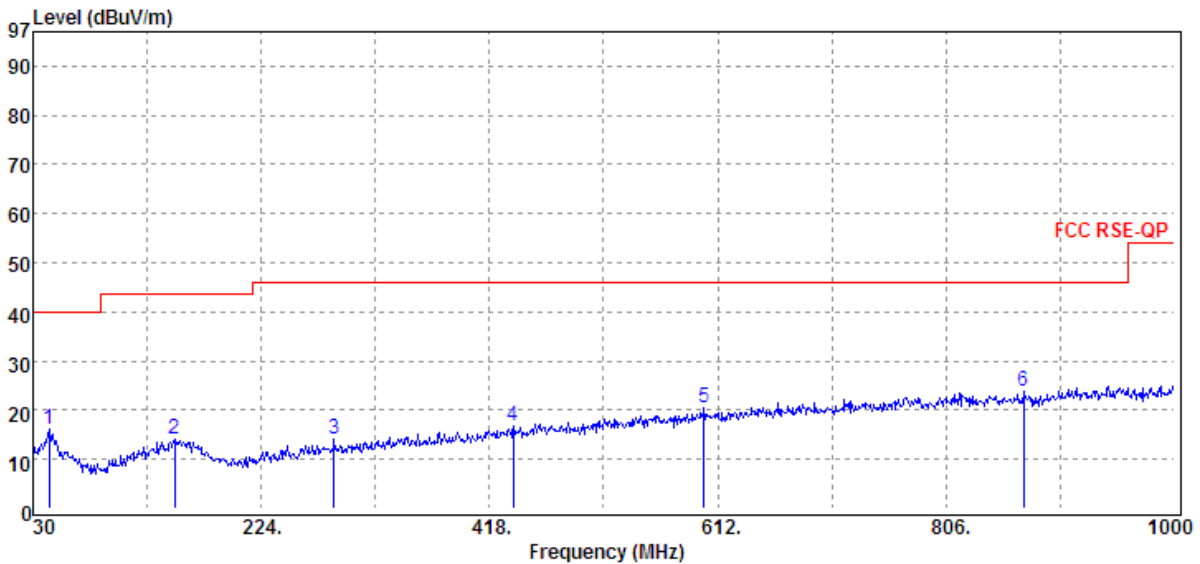
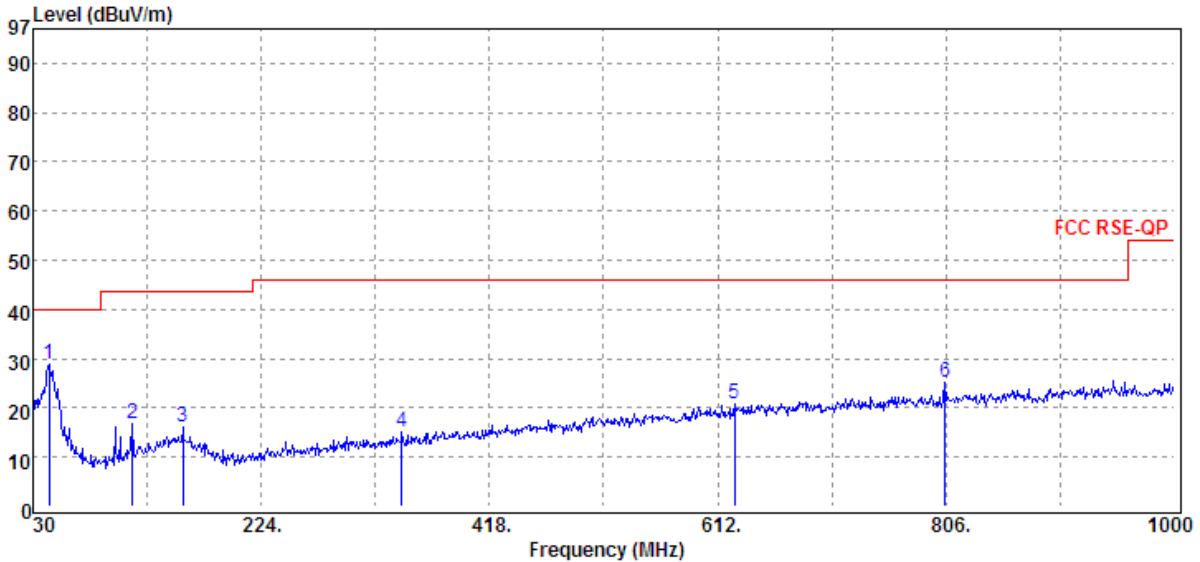
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Operation Band :802.11 g  
 Fundamental Frequency :2462 MHz  
 Operation Mode :TX HIGH  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.

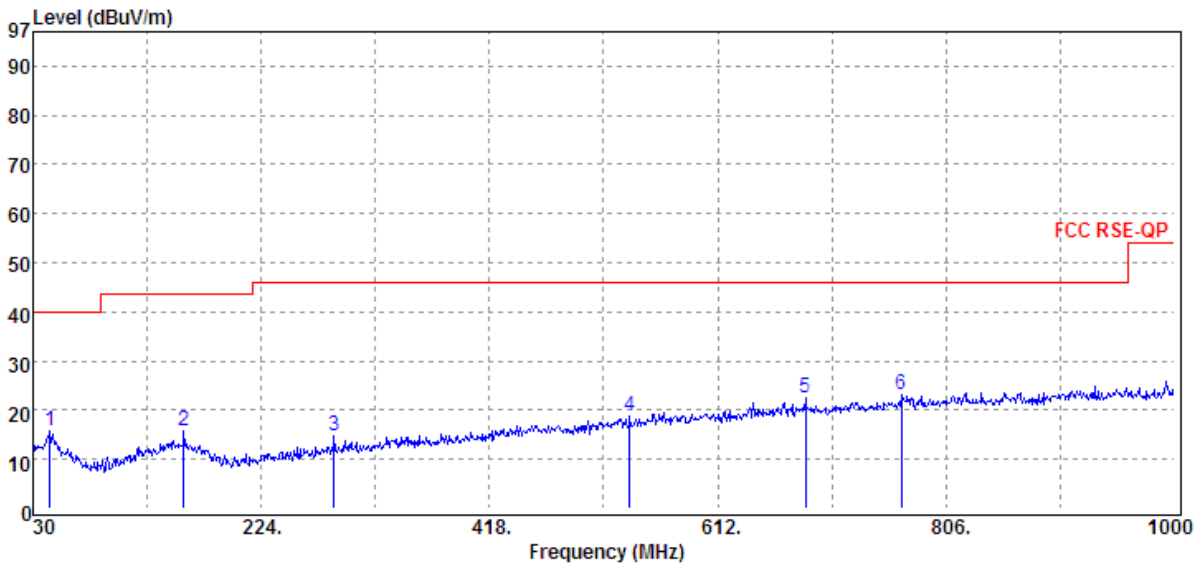
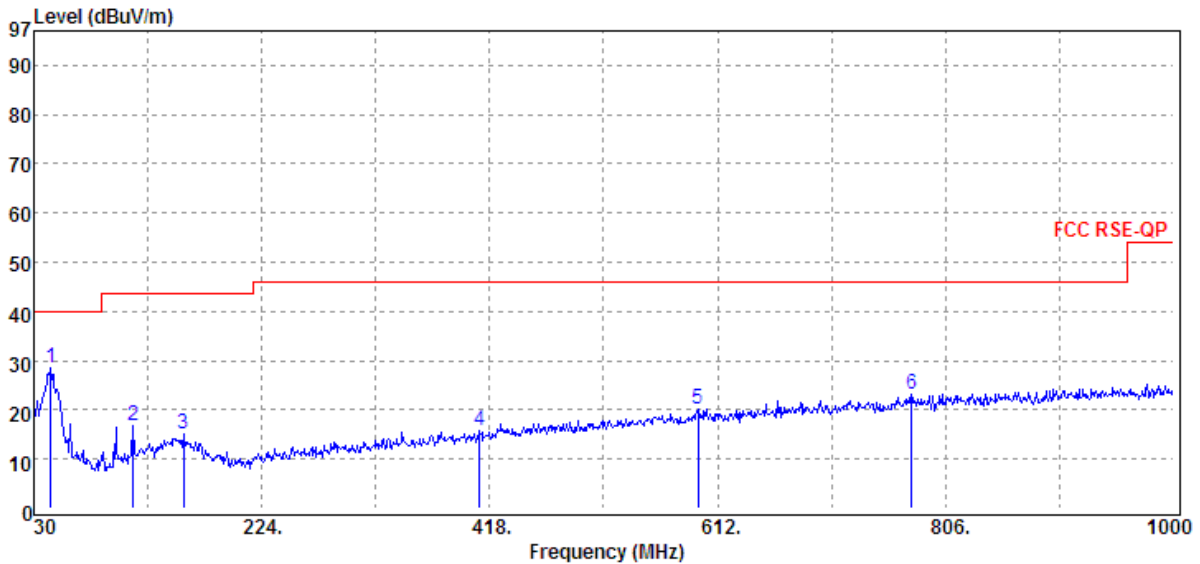


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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

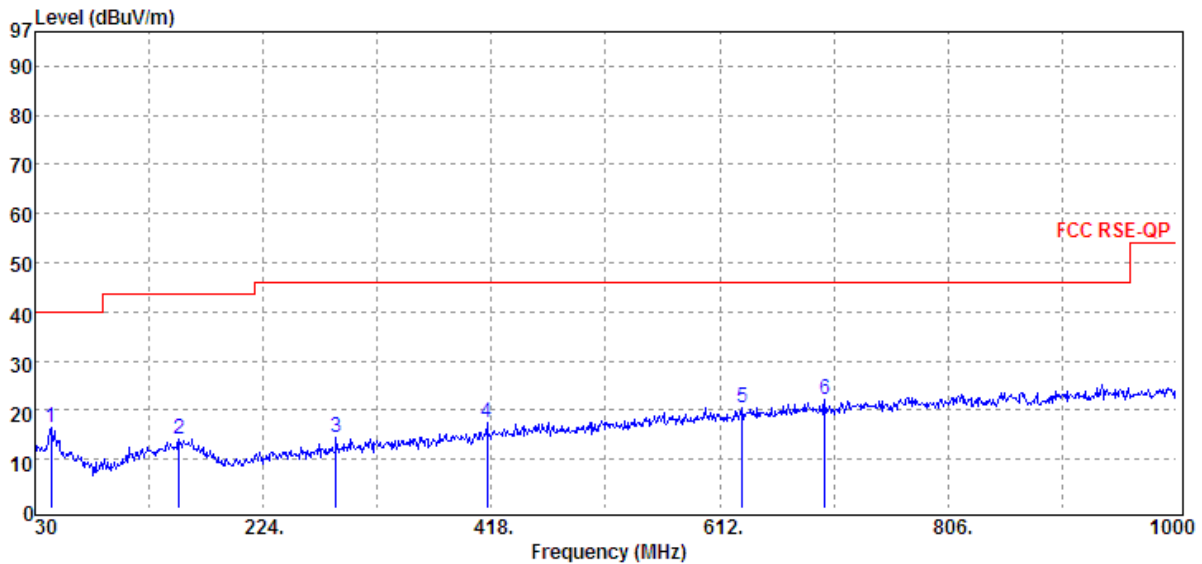
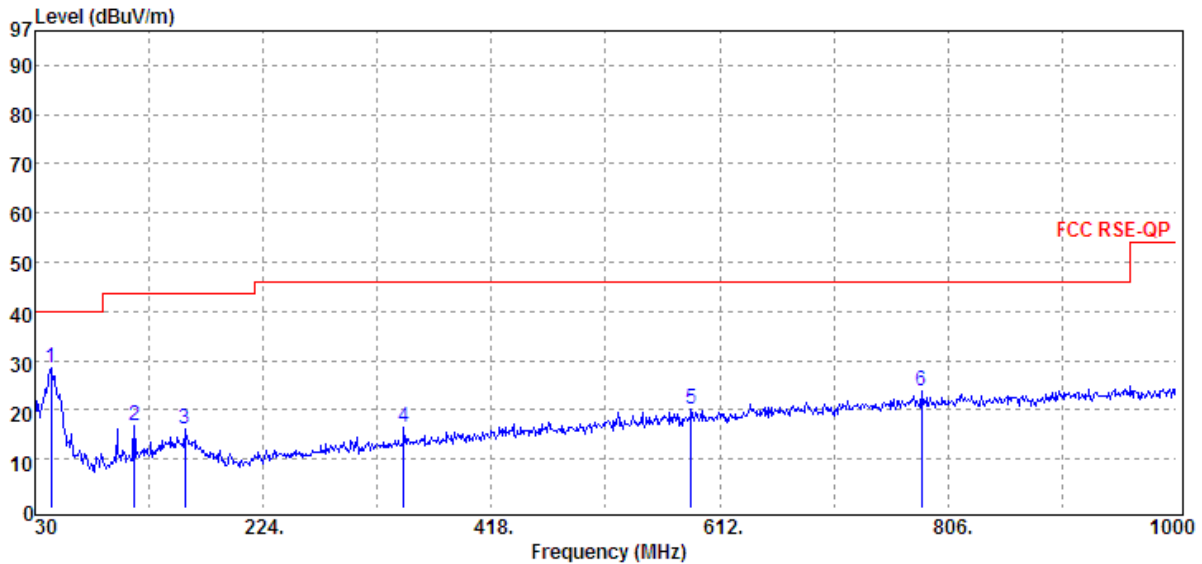


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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.

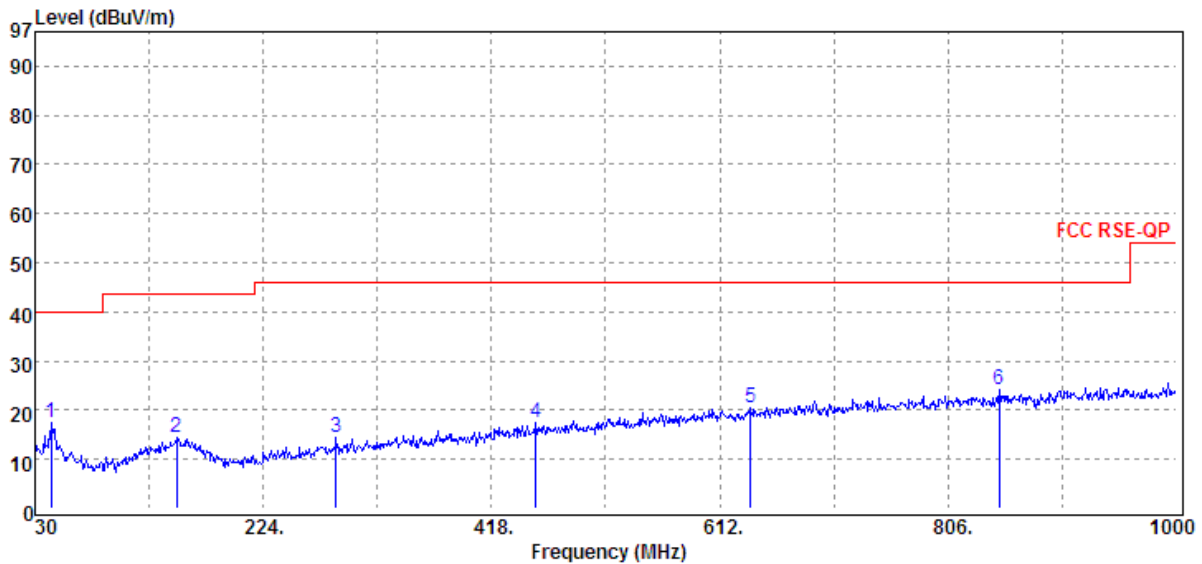
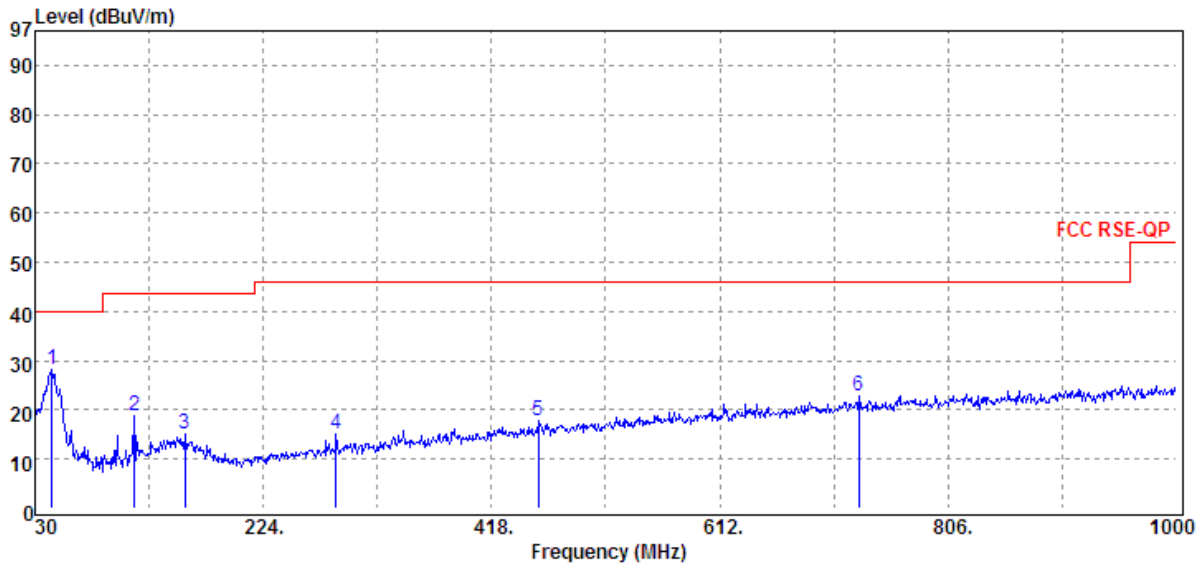


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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



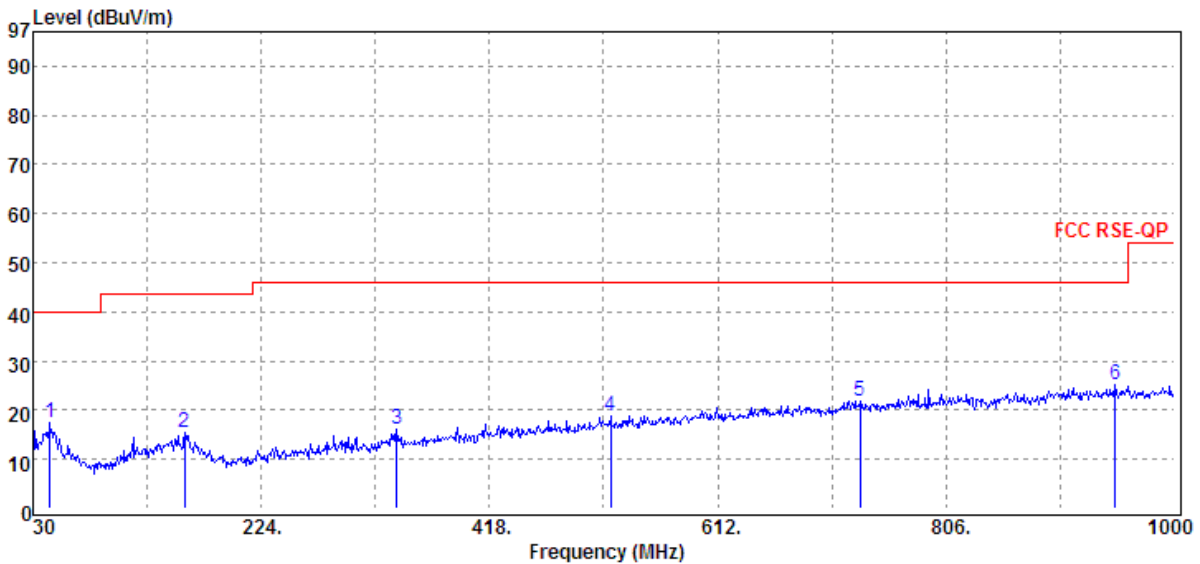
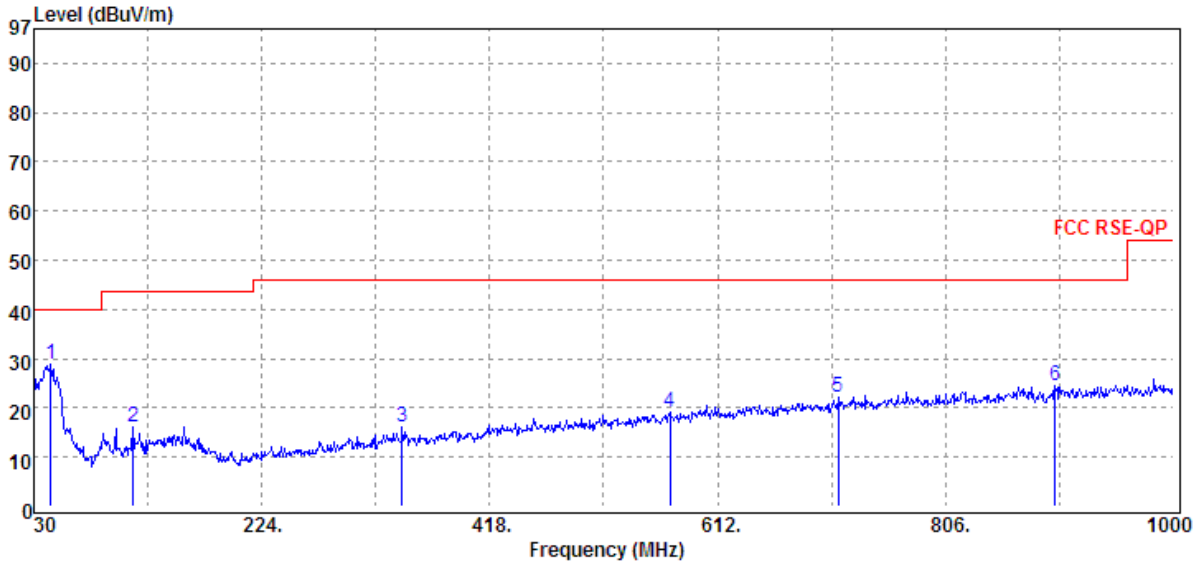
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Operation Band :802.11 a  
 Fundamental Frequency :5745 MHz  
 Operation Mode :TX LOW  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.



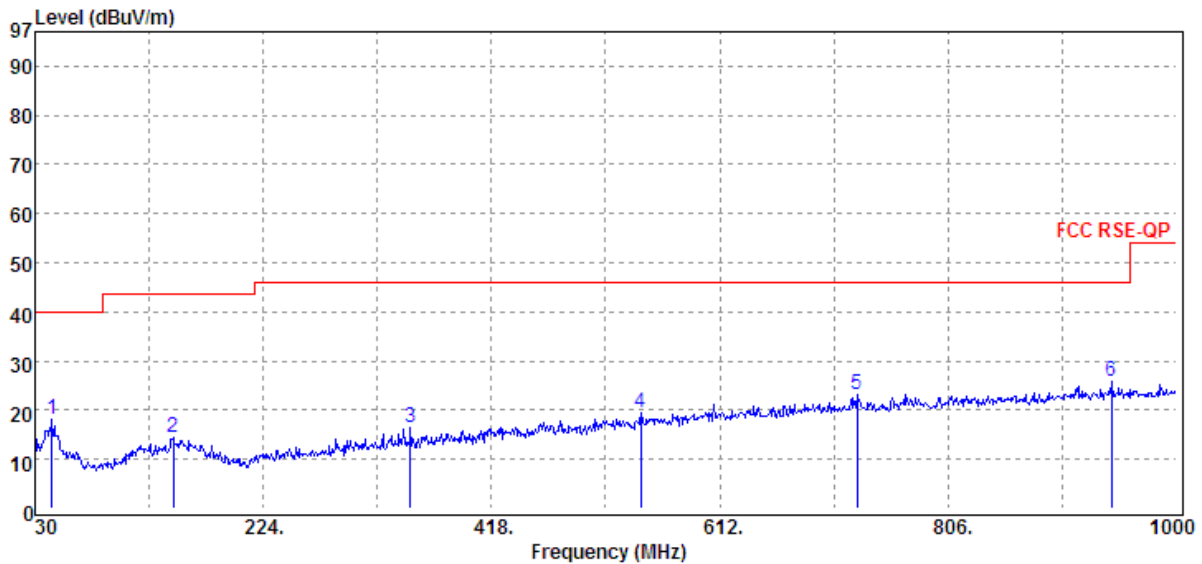
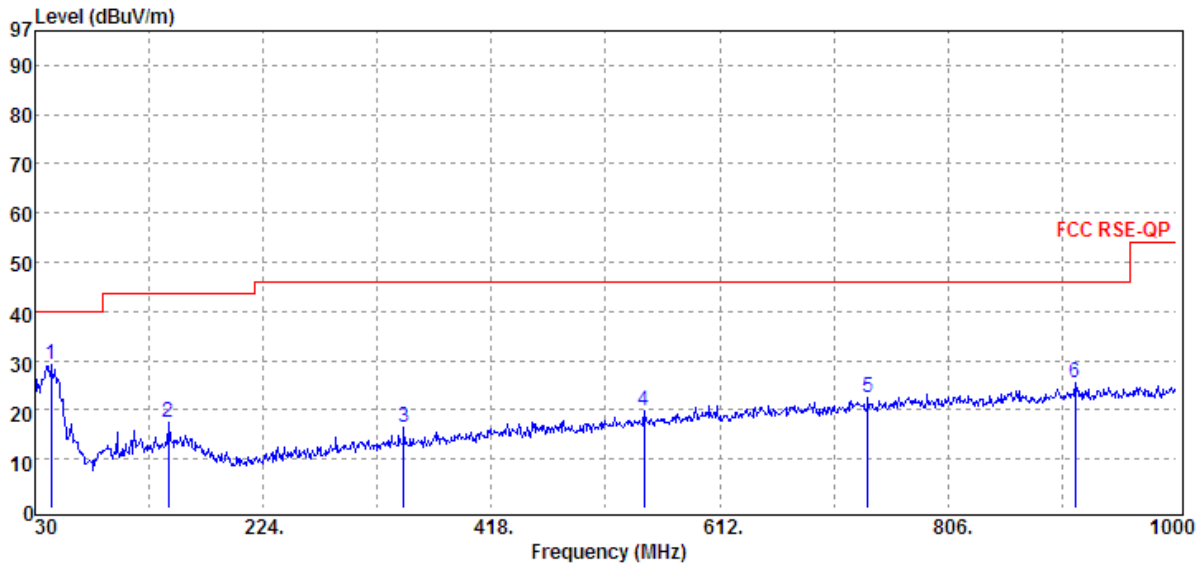
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Operation Band :802.11 a  
 Fundamental Frequency :5785 MHz  
 Operation Mode :TX MID  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.

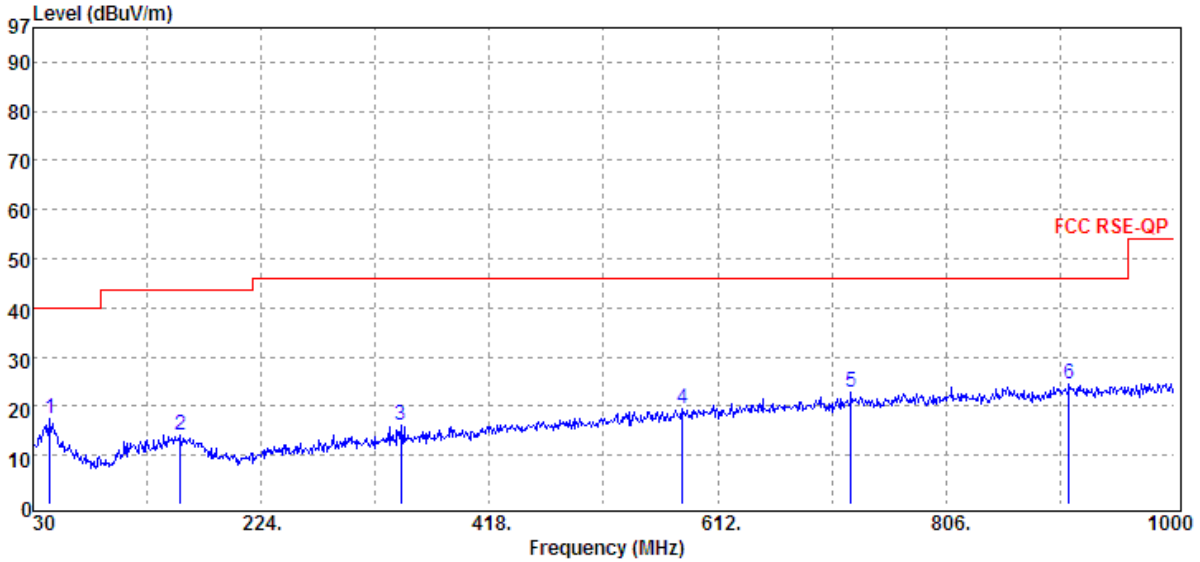
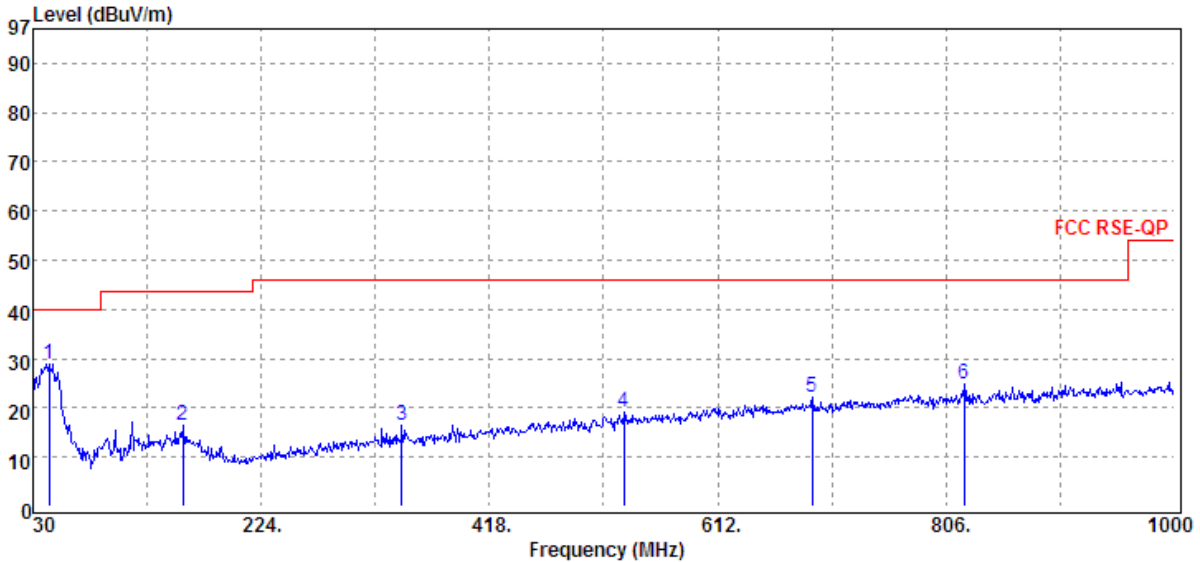


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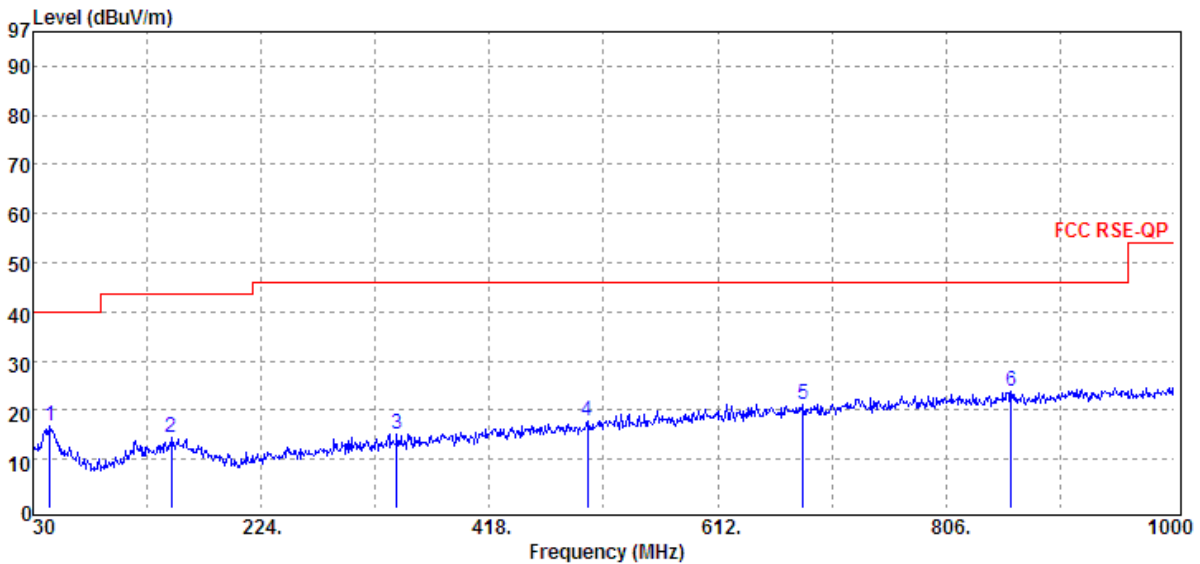
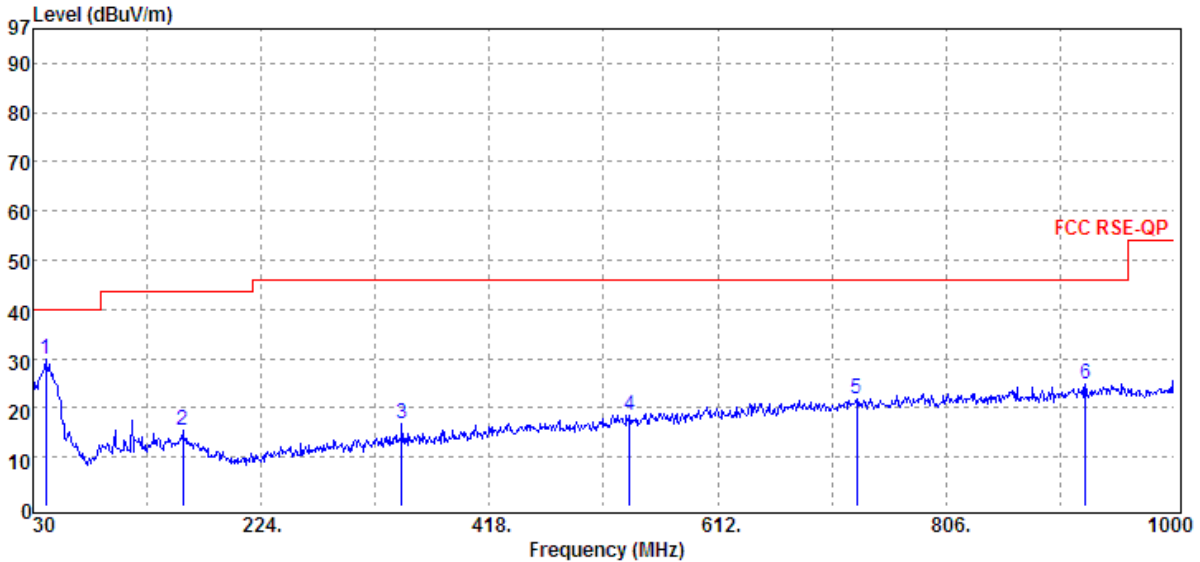
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Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



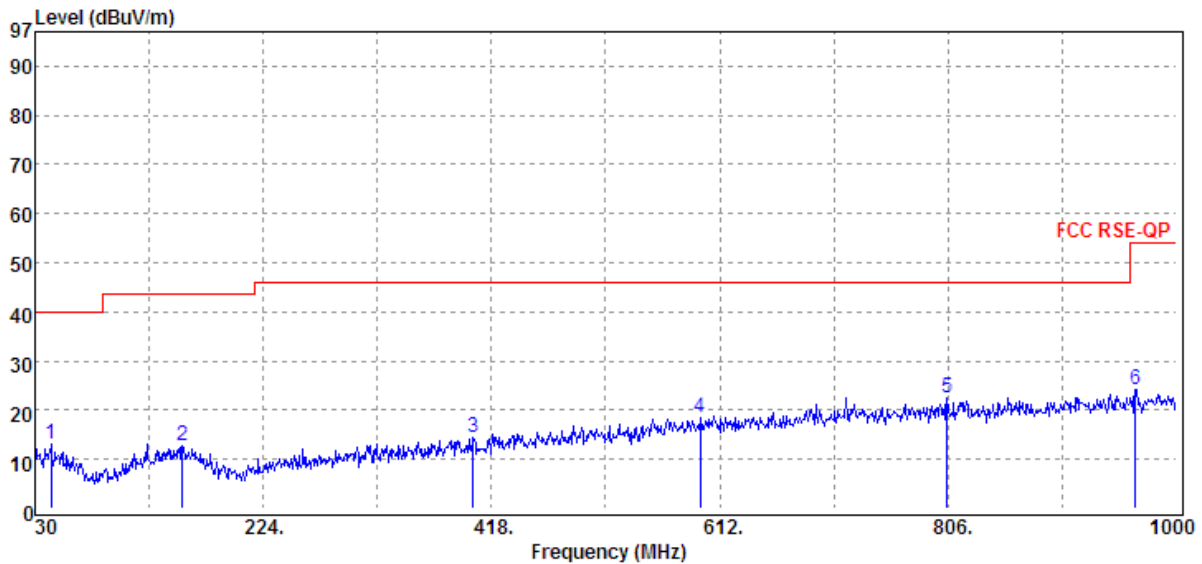
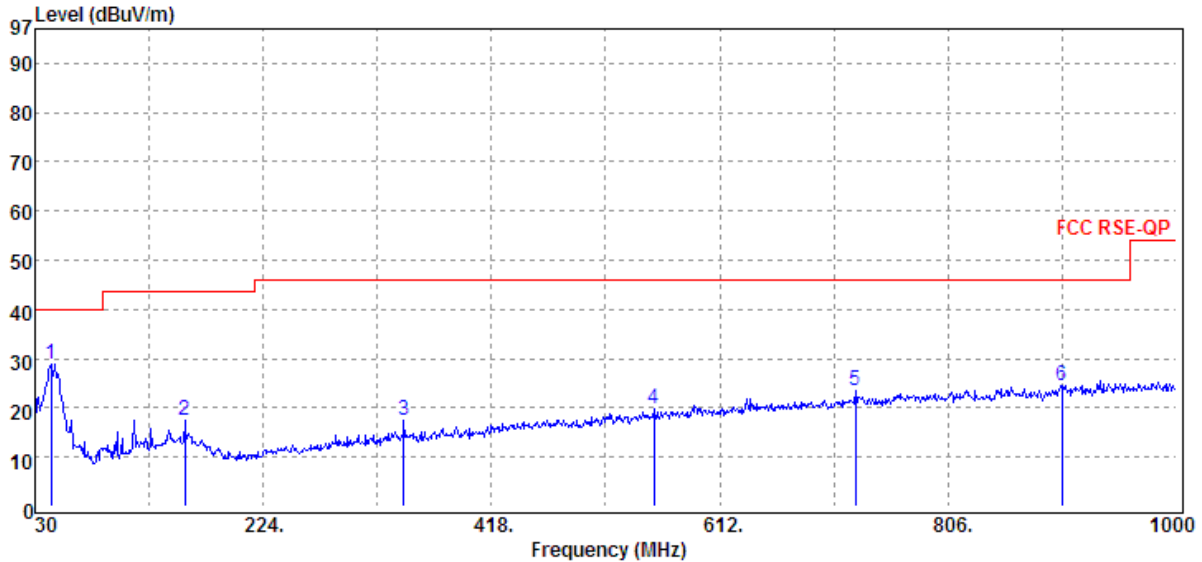
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Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. /Hor.

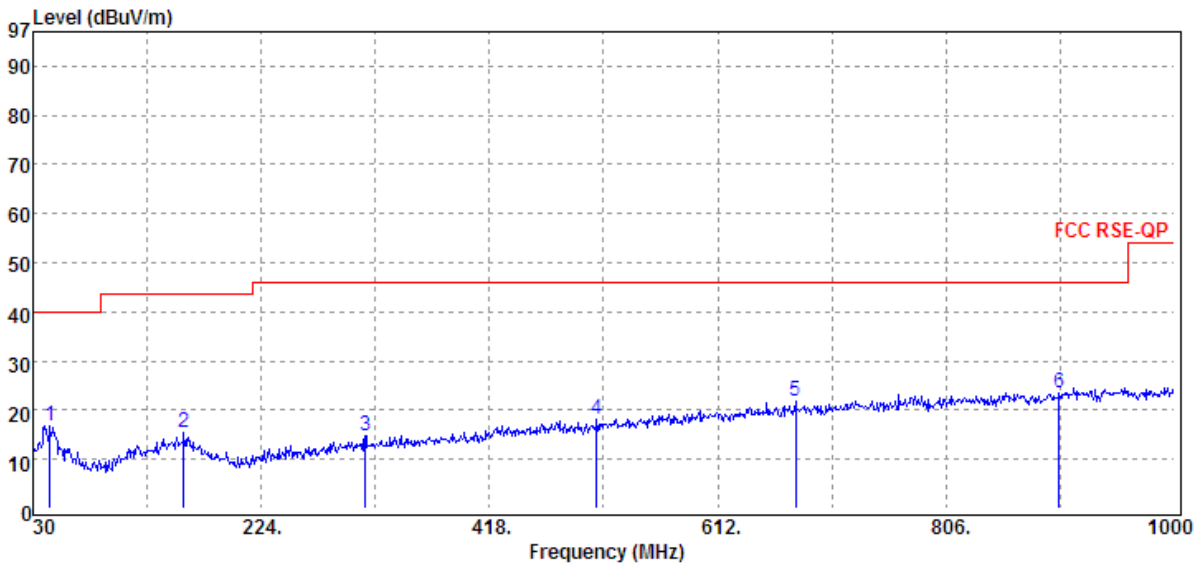
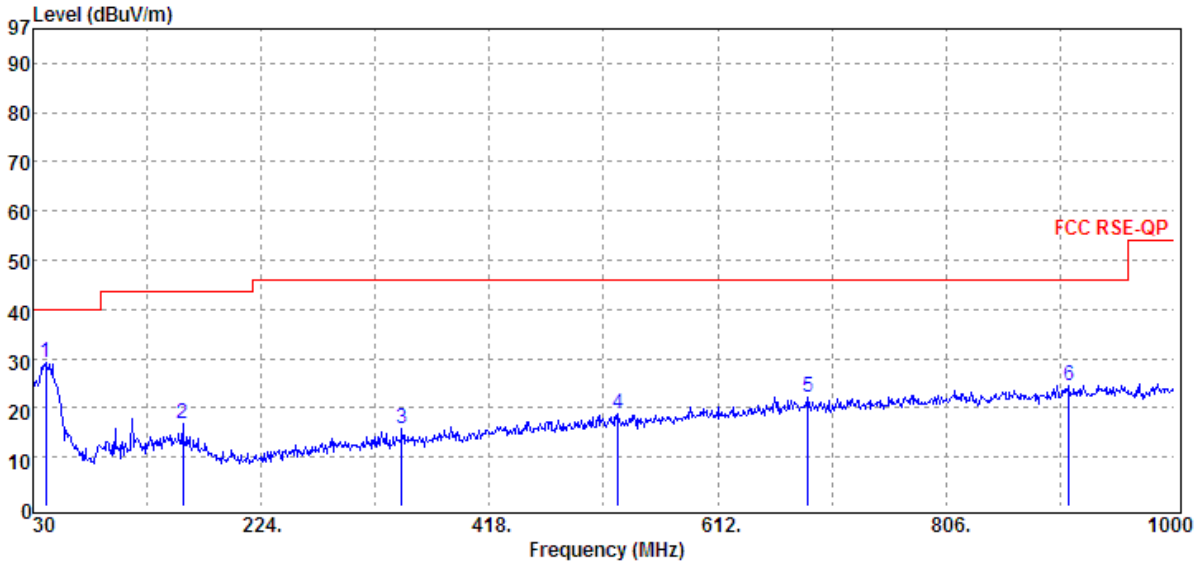


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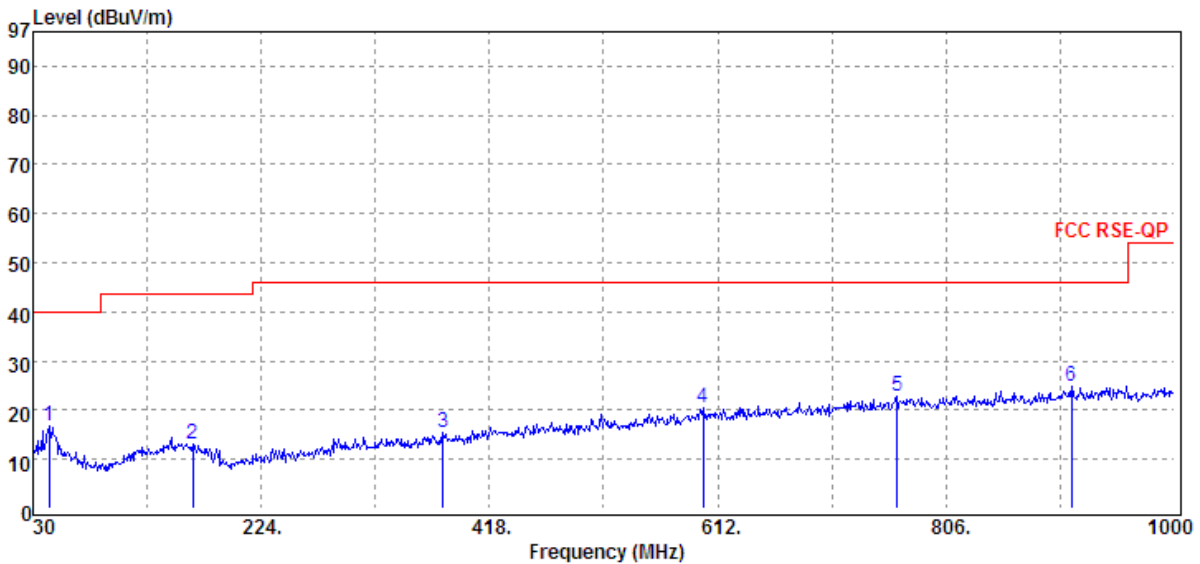
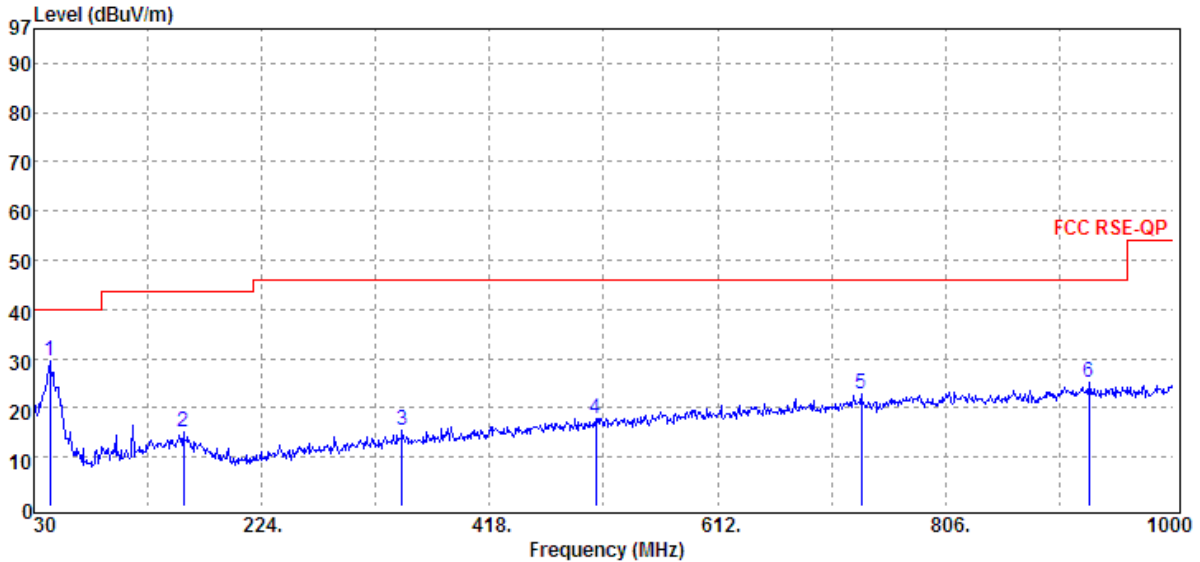
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band :802.11 n40M  
 Fundamental Frequency :5755 MHz  
 Operation Mode :TX LOW  
 EUT Pol. :E2 Plan

Test Date :2013-05-01  
 Temp./Humi. :23deg\_C/52RH  
 Engineer :Louis  
 Measurement Antenna Pol. :Ver. / Hor.

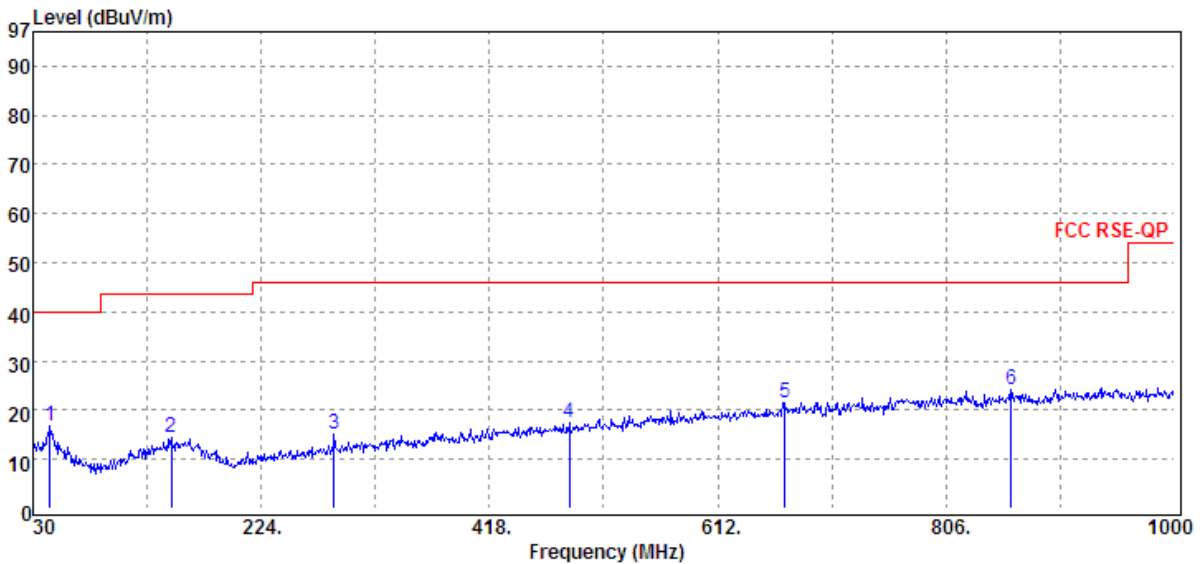
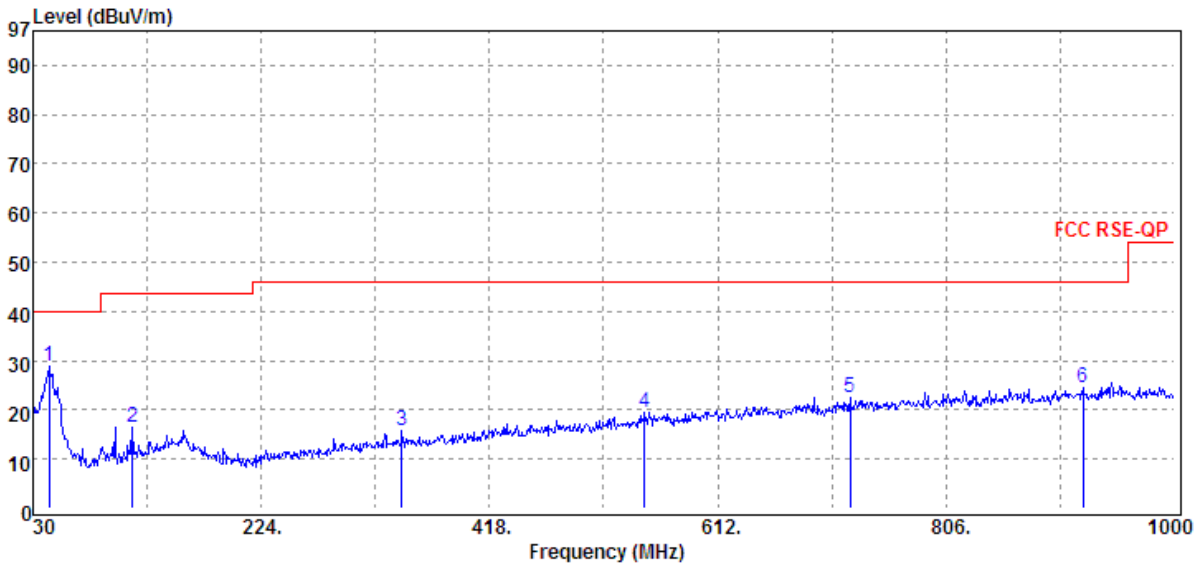


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Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:Ver. / Hor.



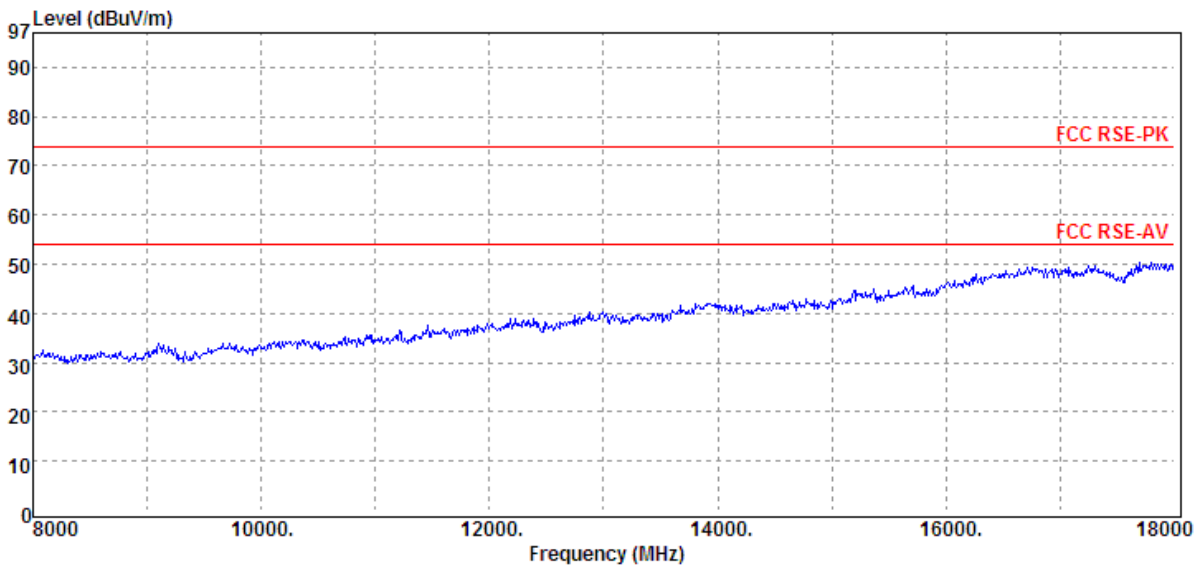
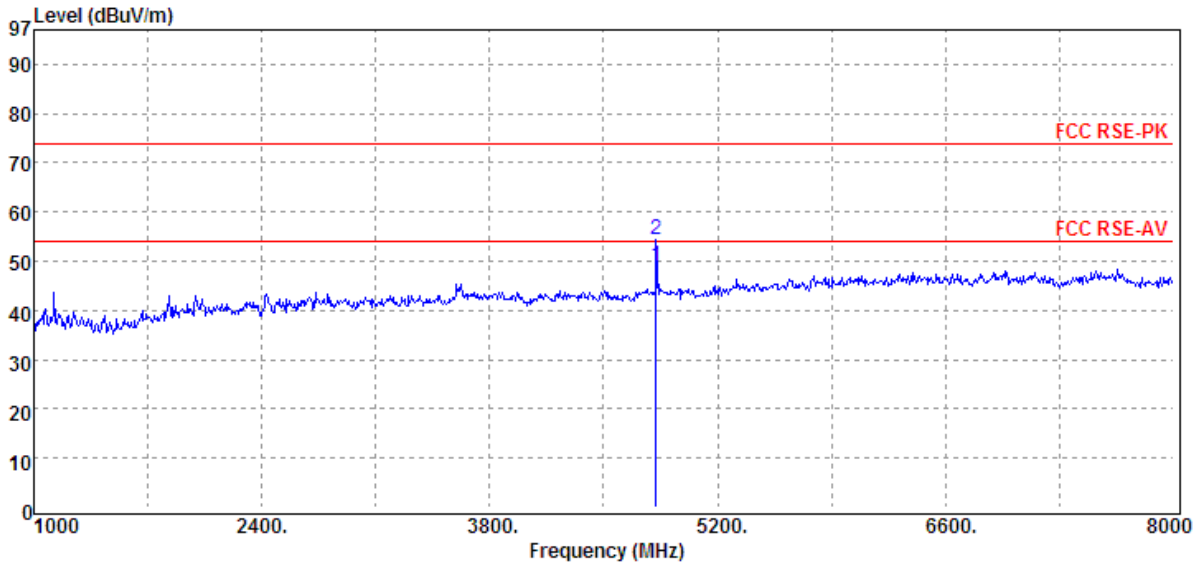
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**Radiated Spurious Emission Measurement photos Result (above 1GHz)**

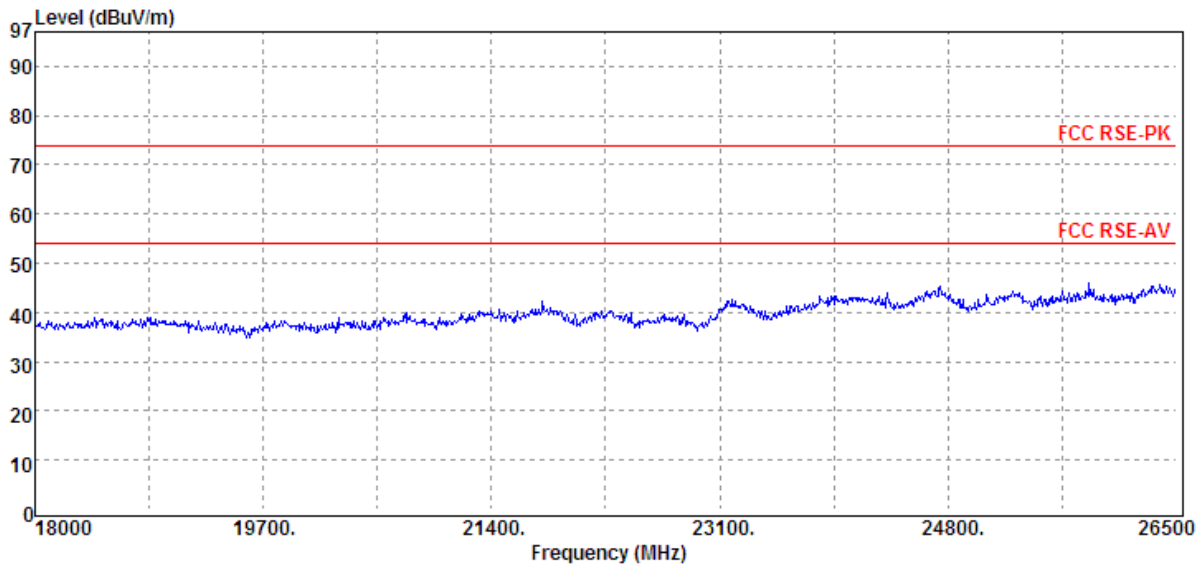
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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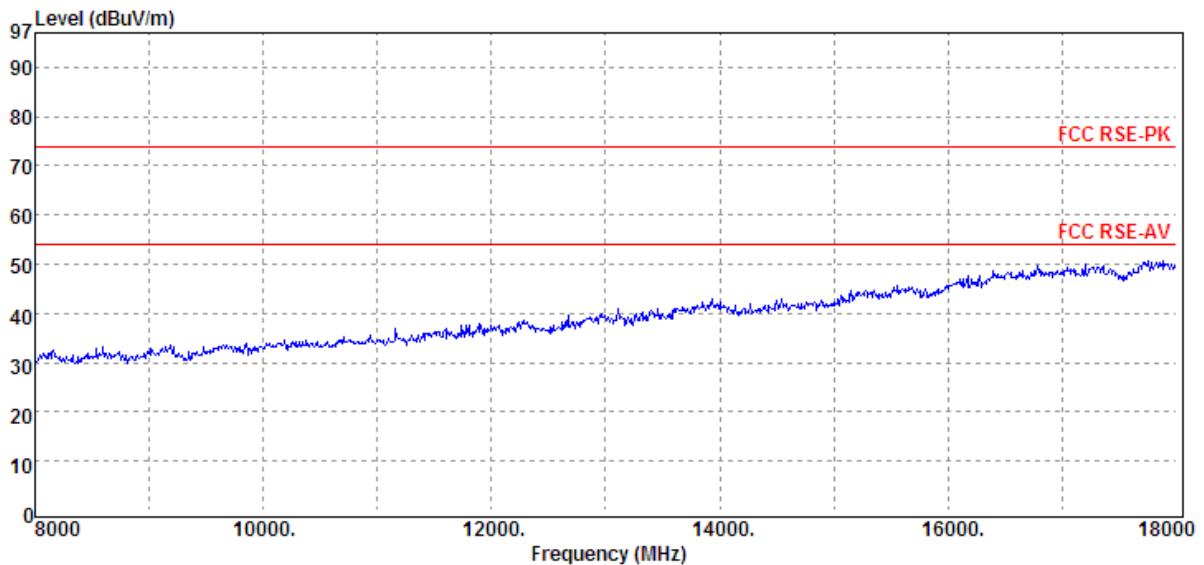
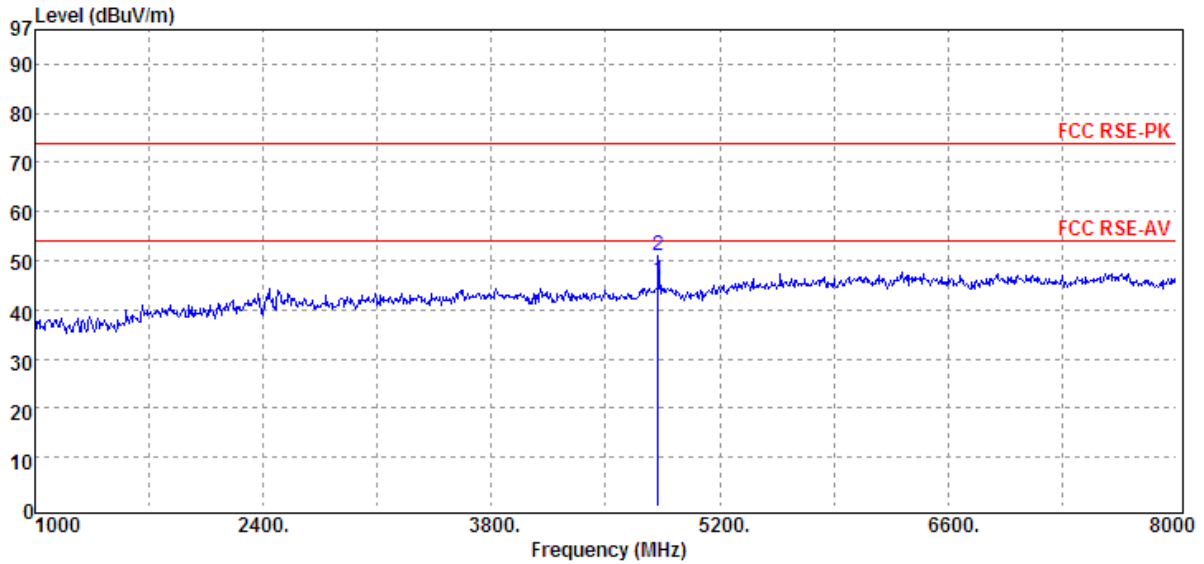


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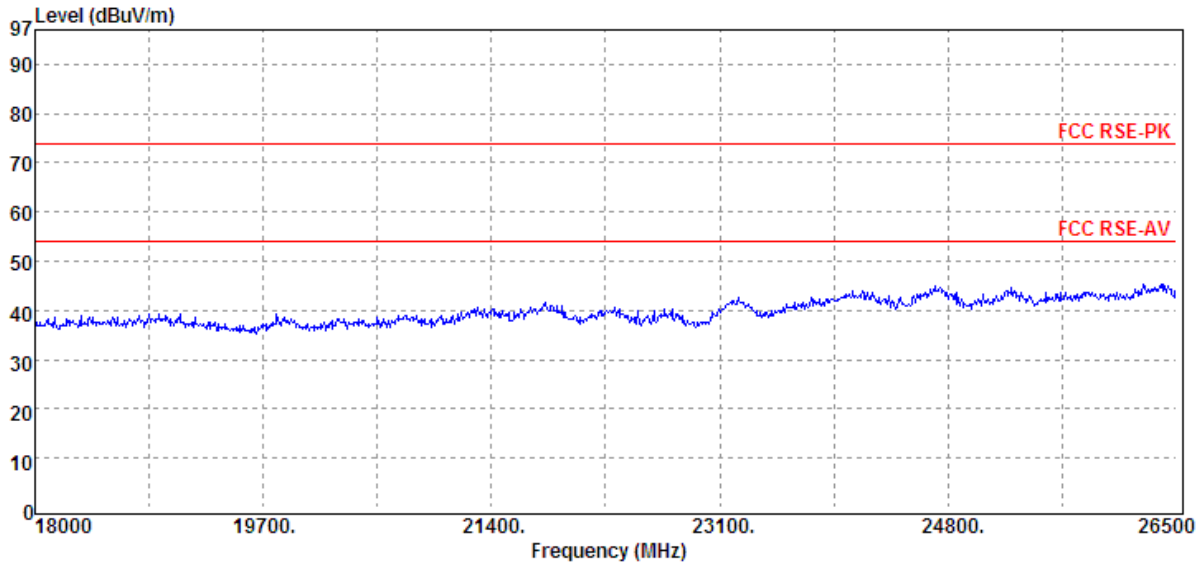
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2412 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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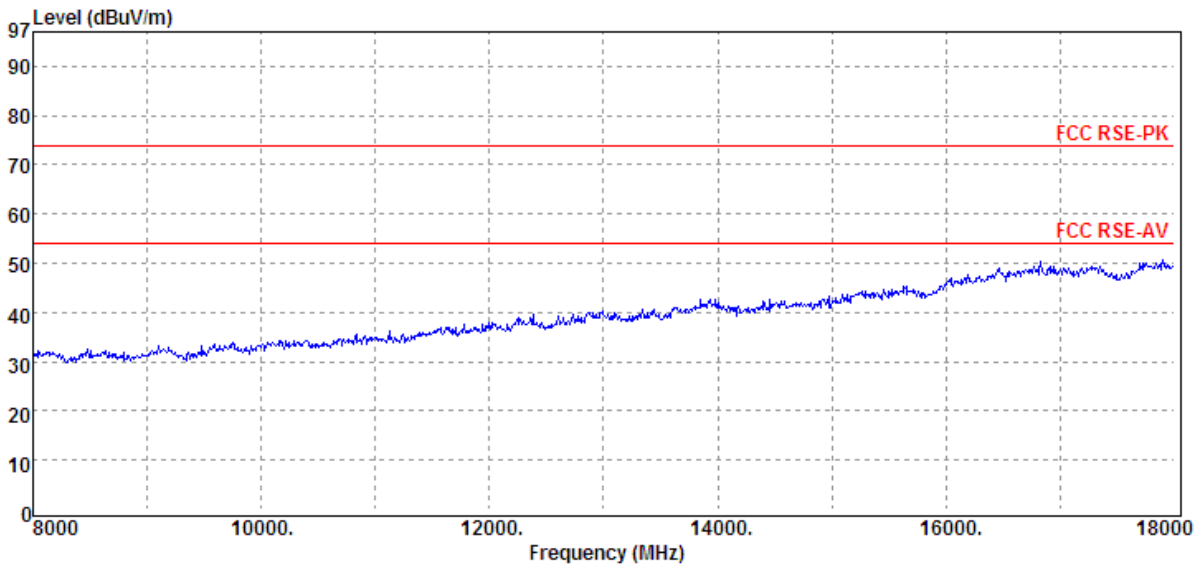
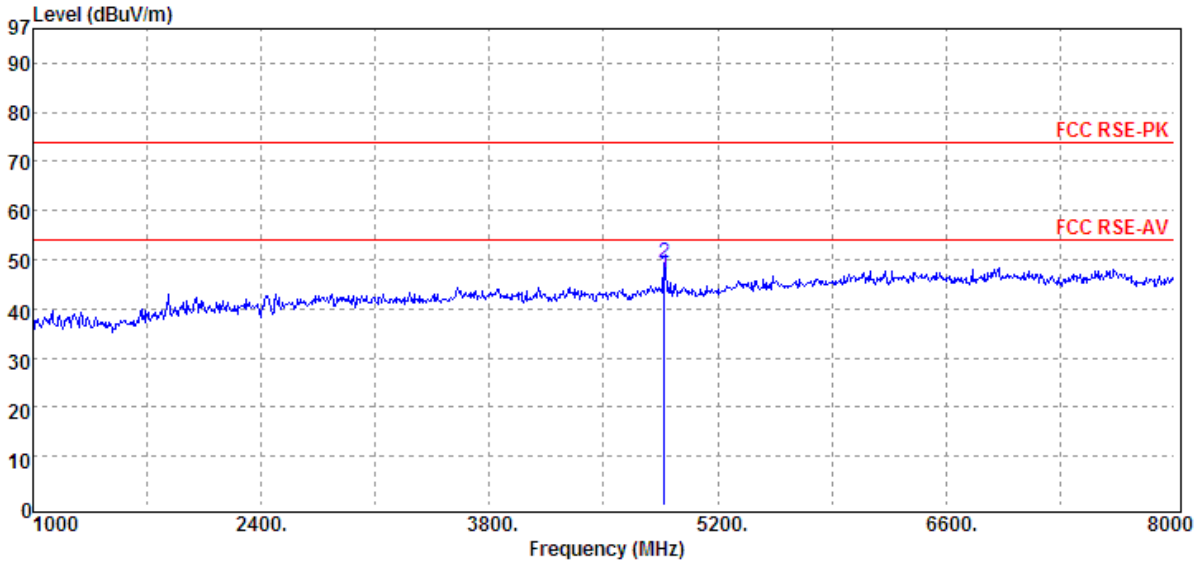
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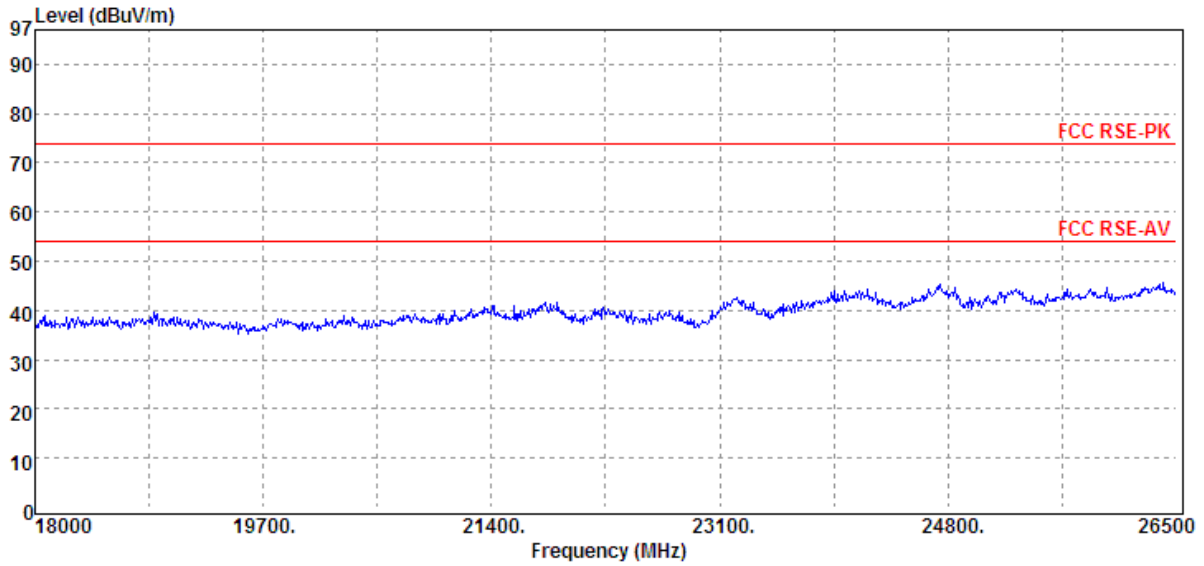
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2437 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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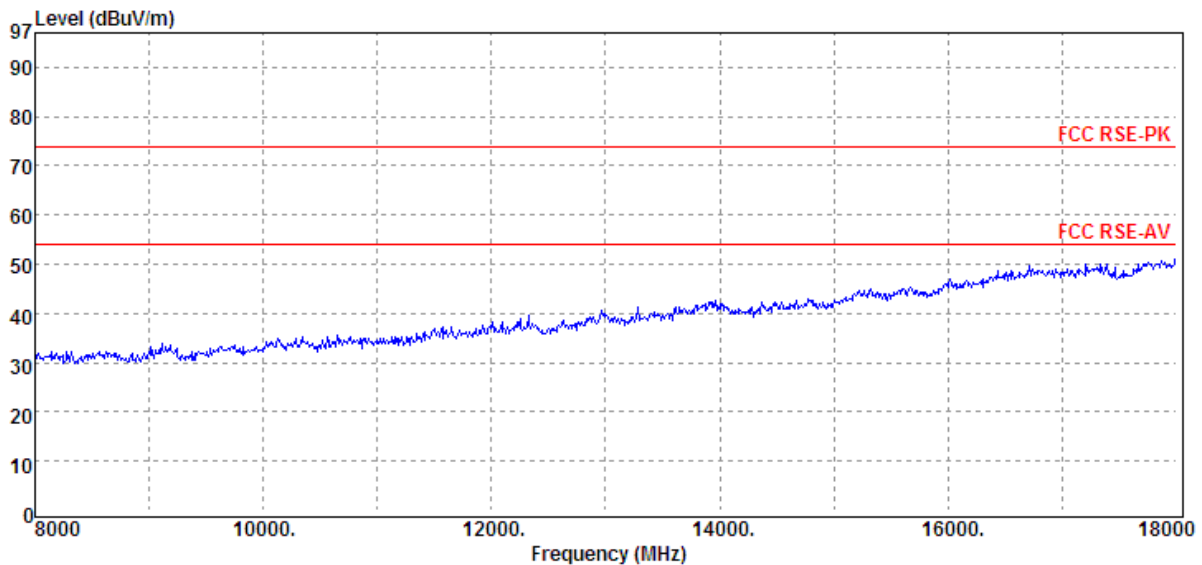
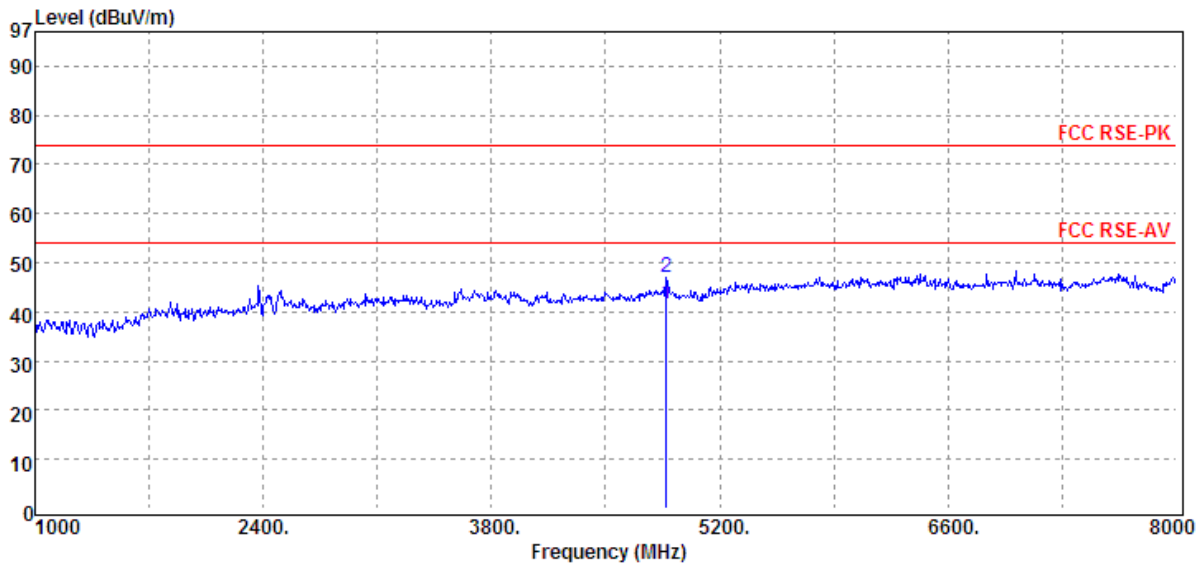


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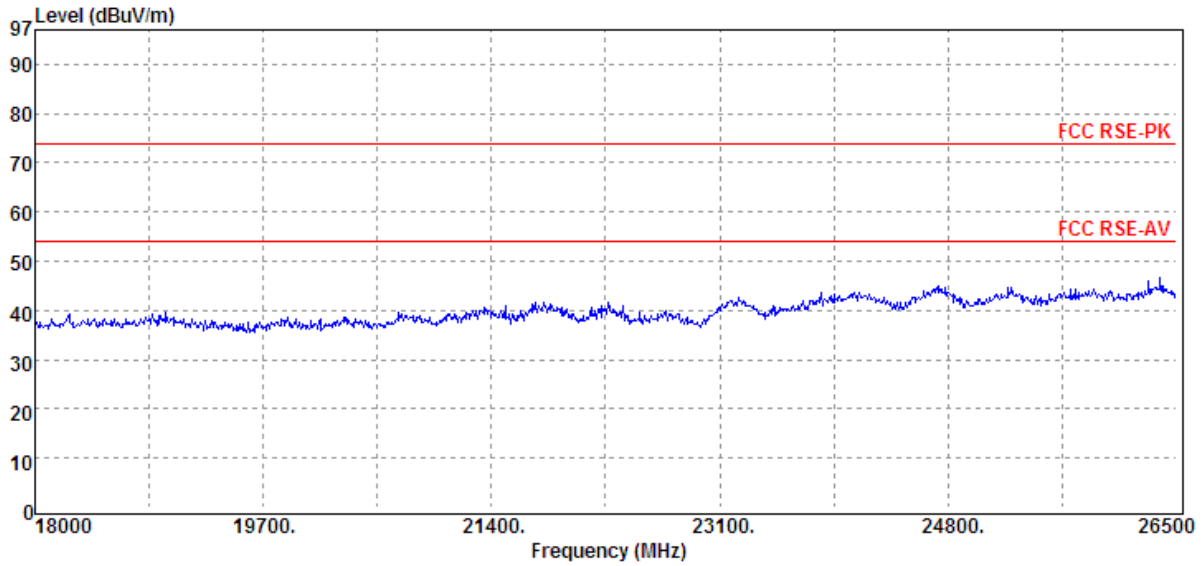
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2437 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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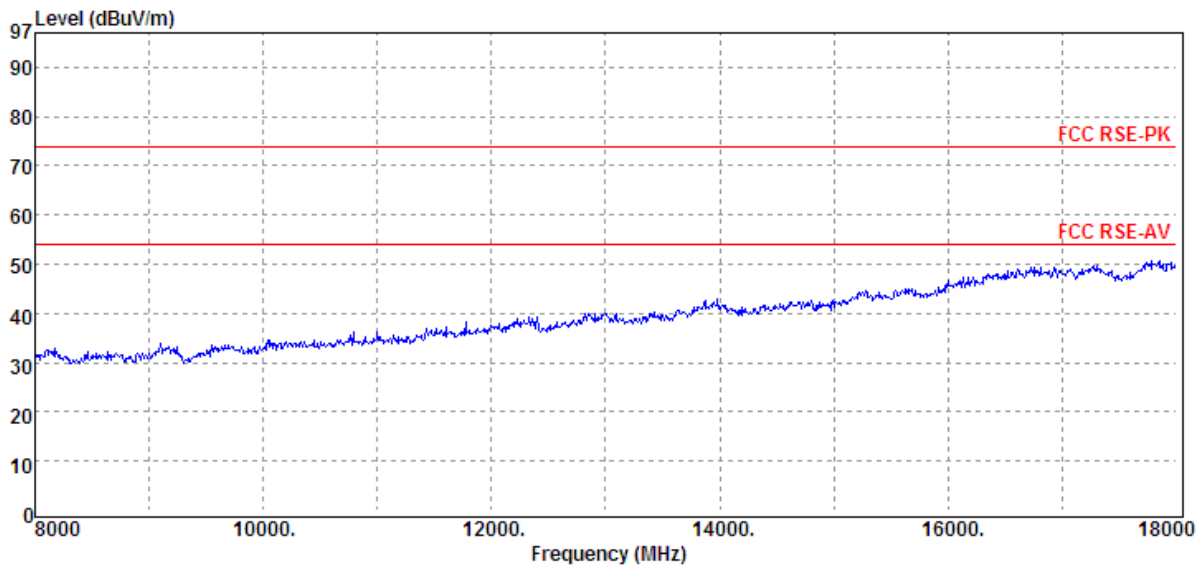
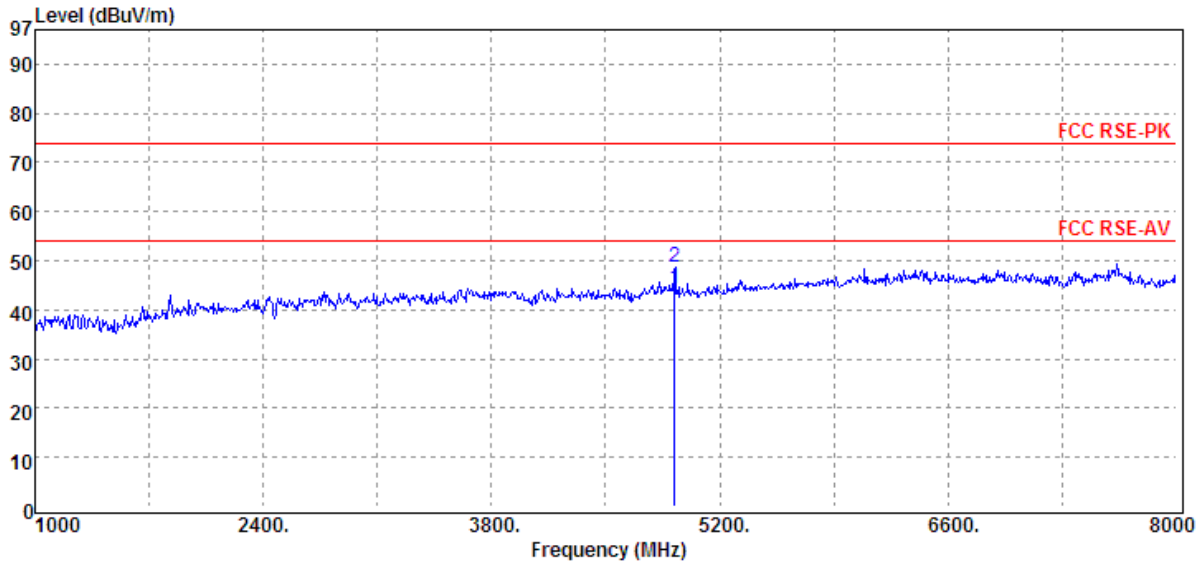


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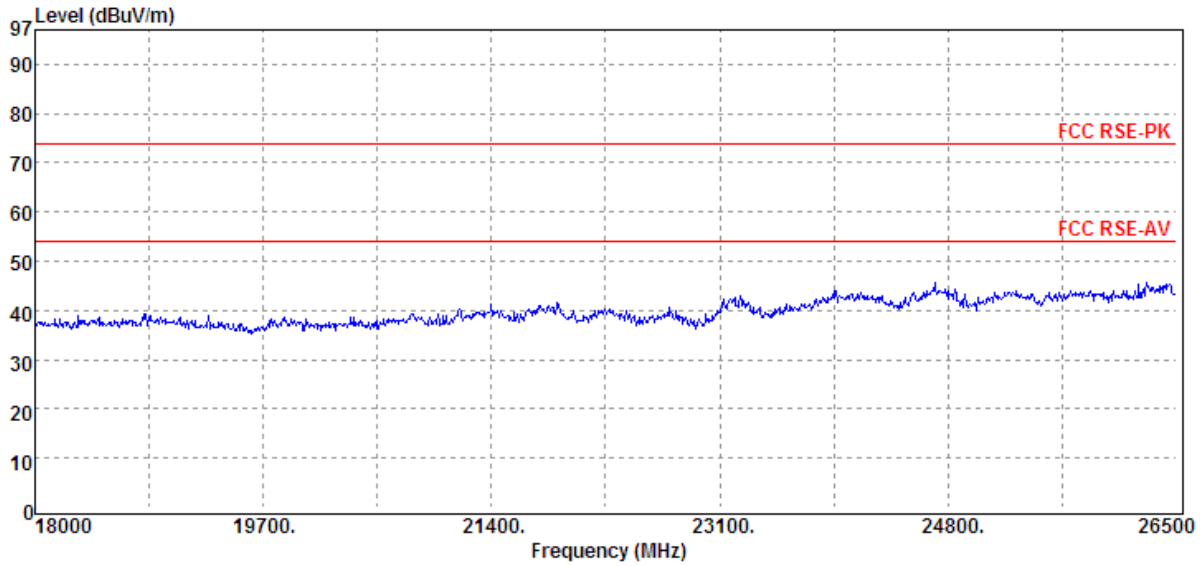
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2462 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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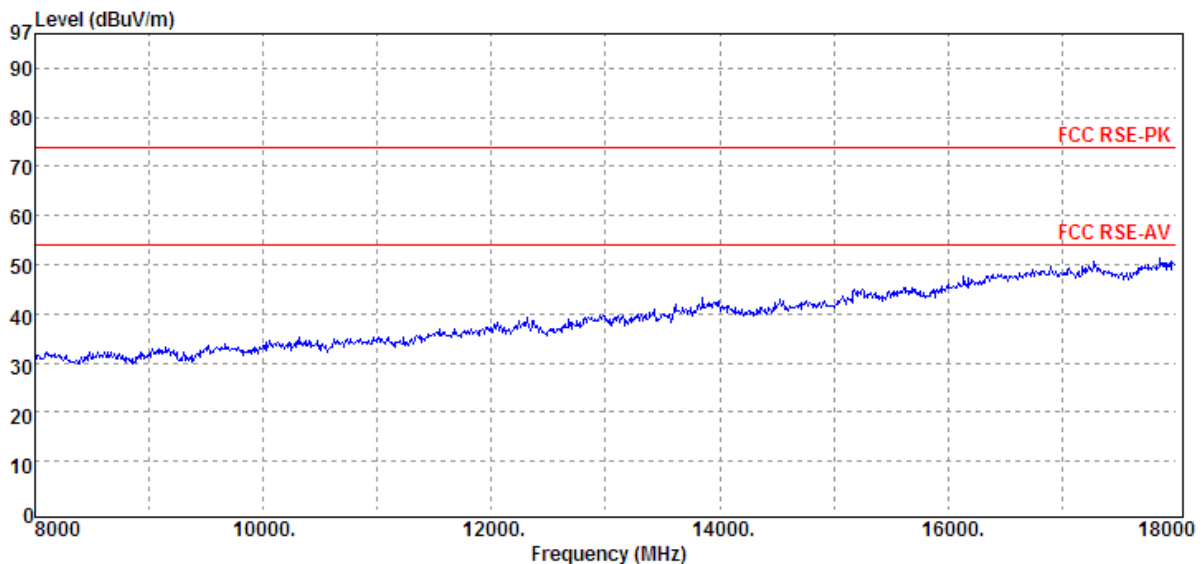
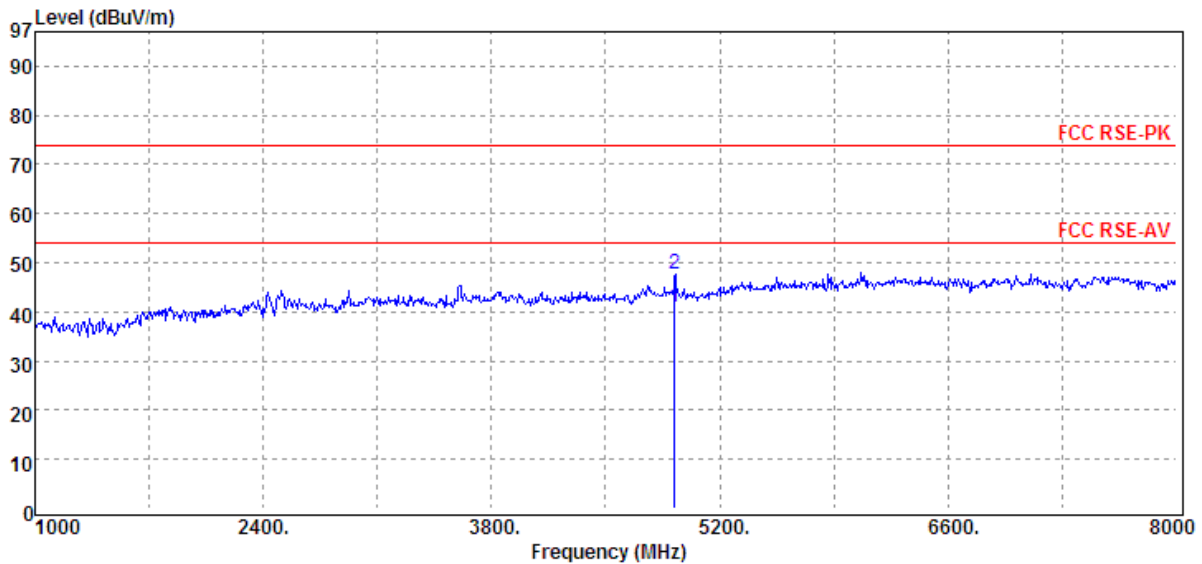


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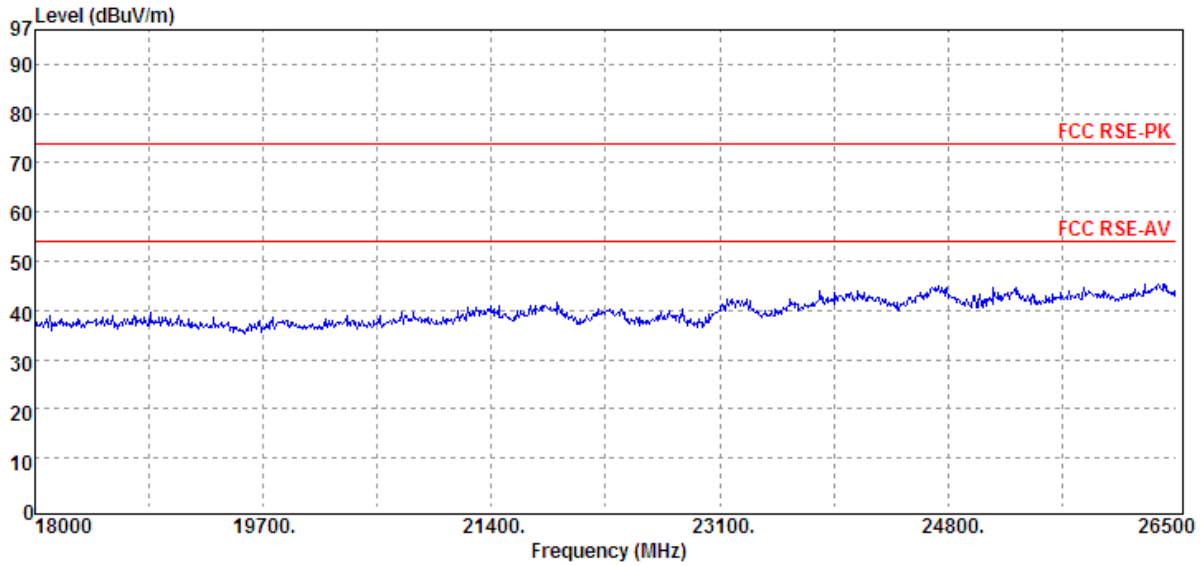
Operation Band	:802.11 b	Test Date	:2013-05-27
Fundamental Frequency	:2462 MHz power 15 dBm	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:JJ
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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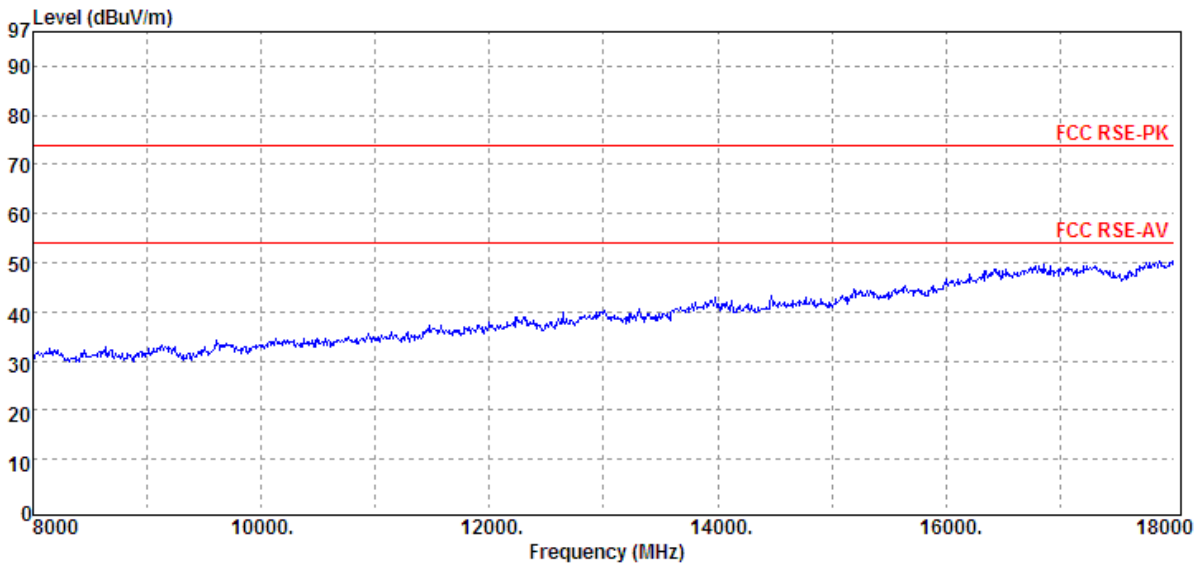
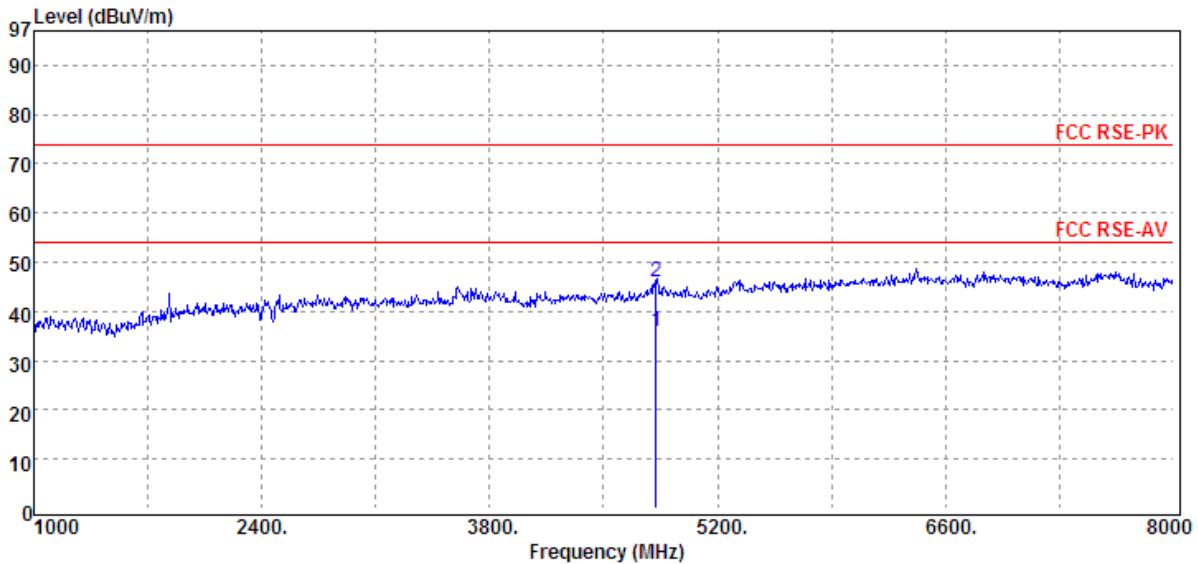
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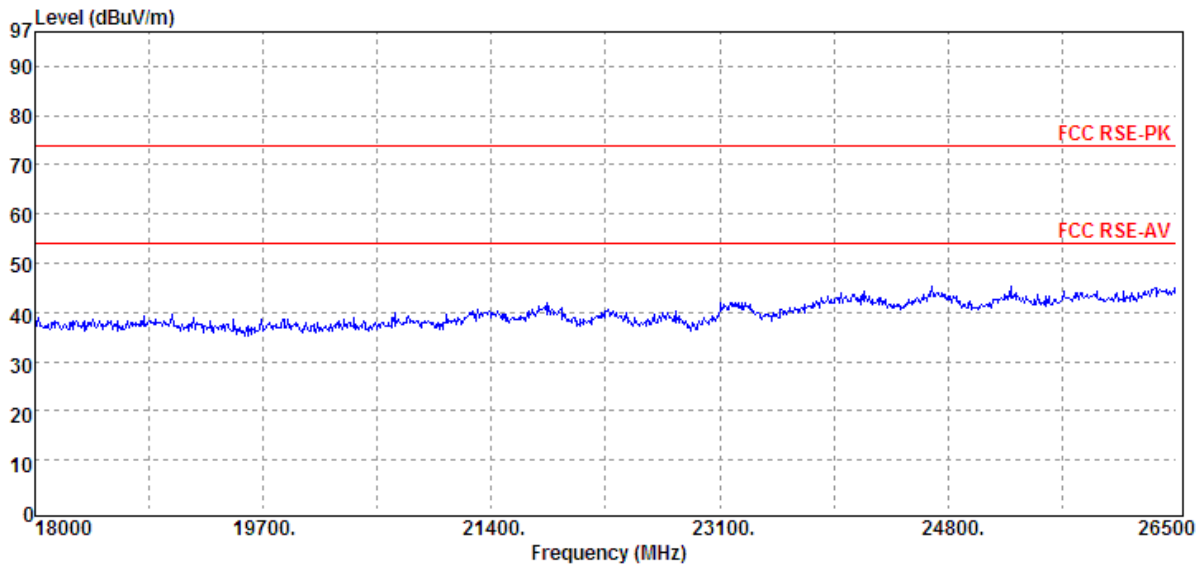
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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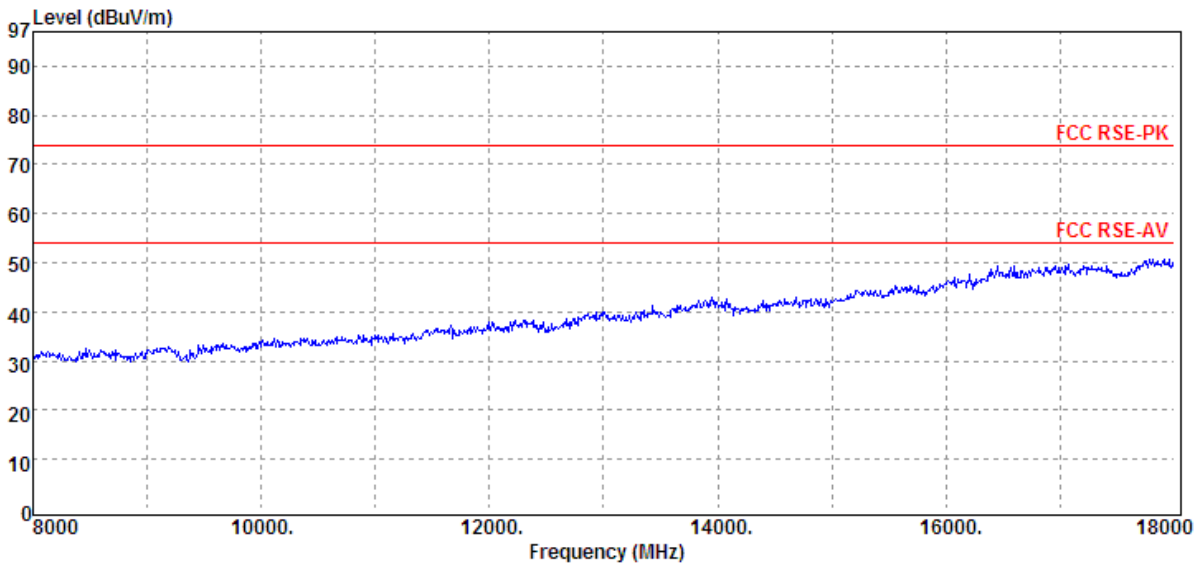
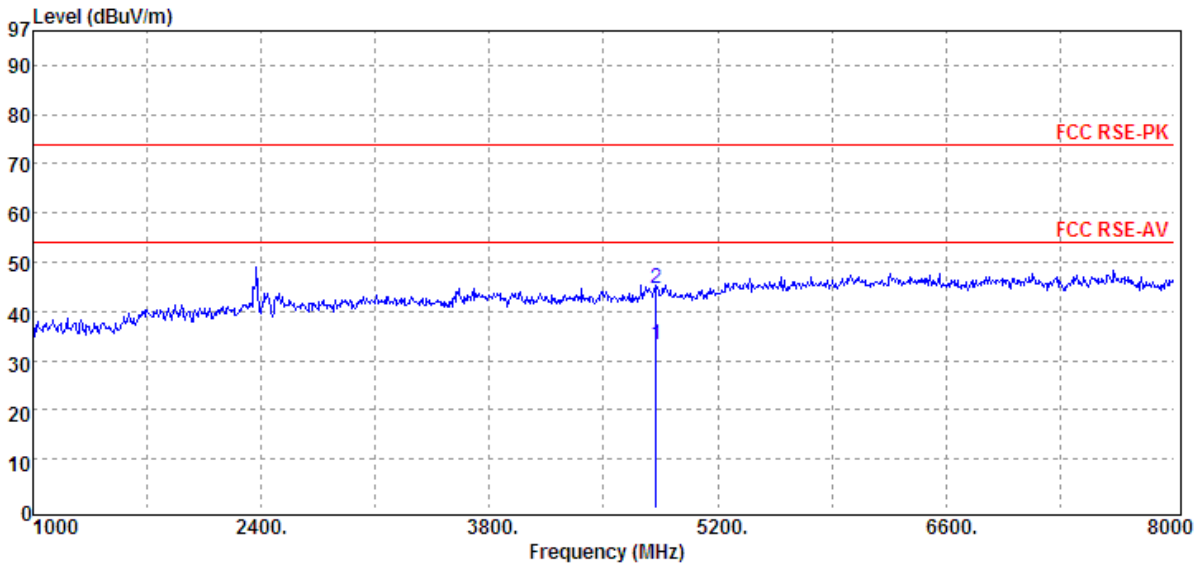


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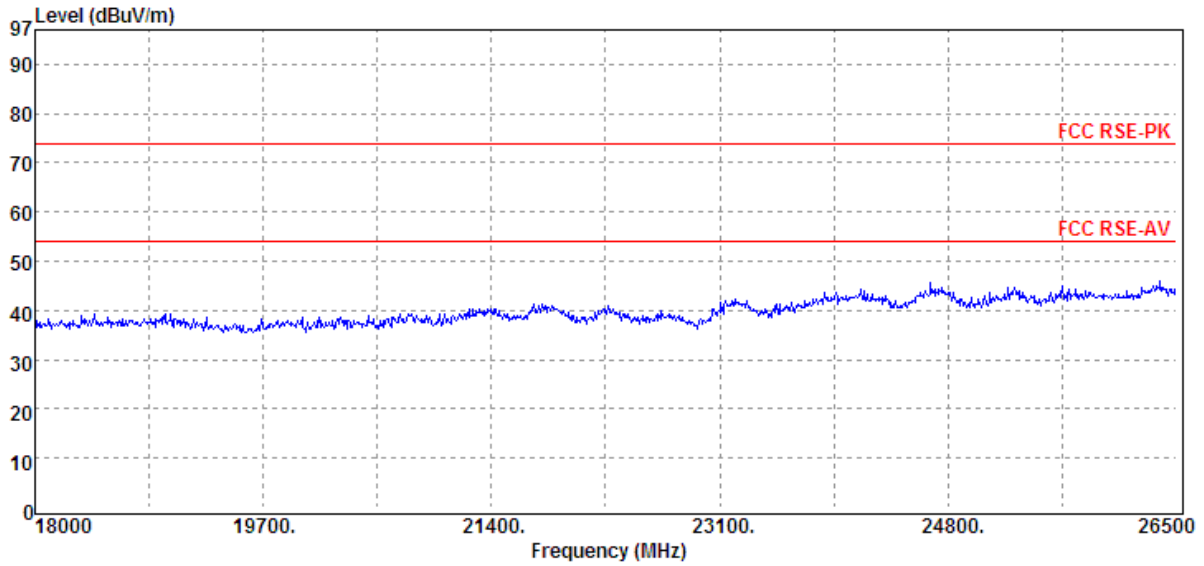
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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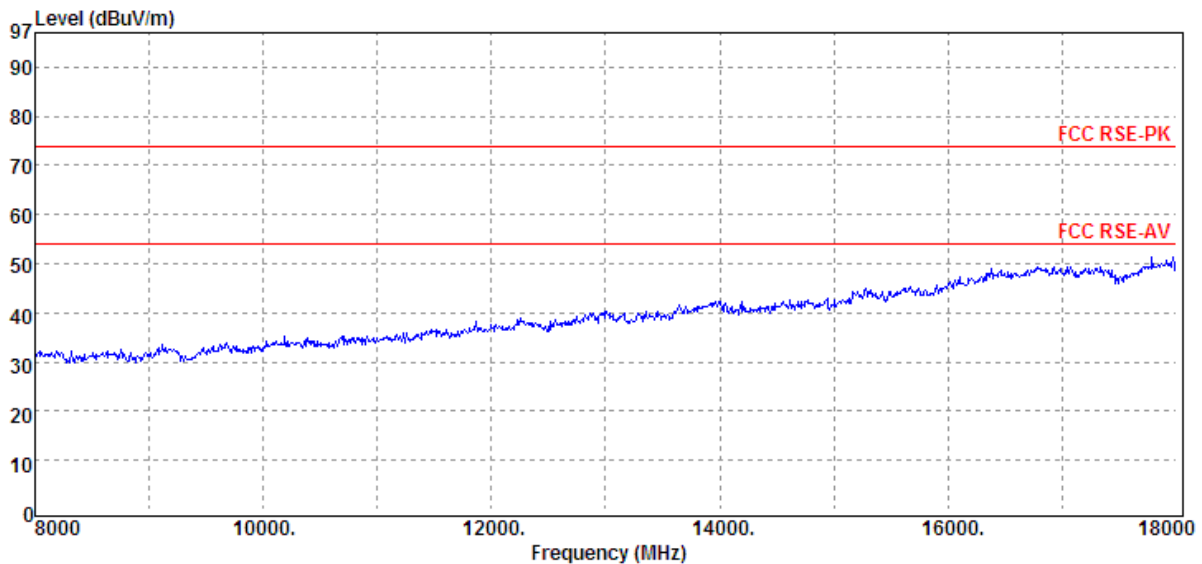
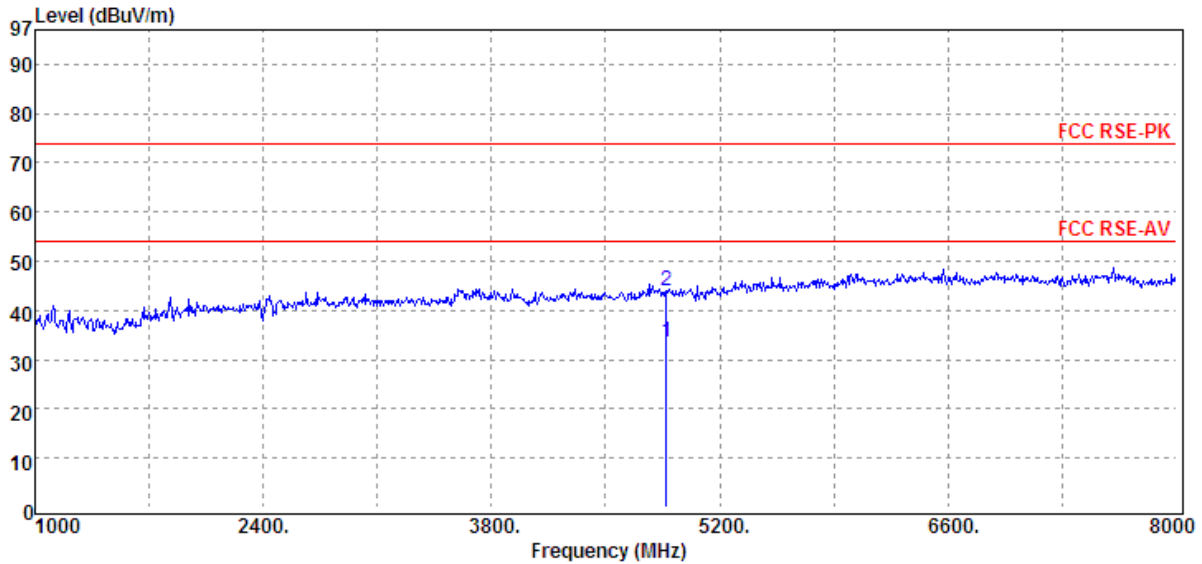


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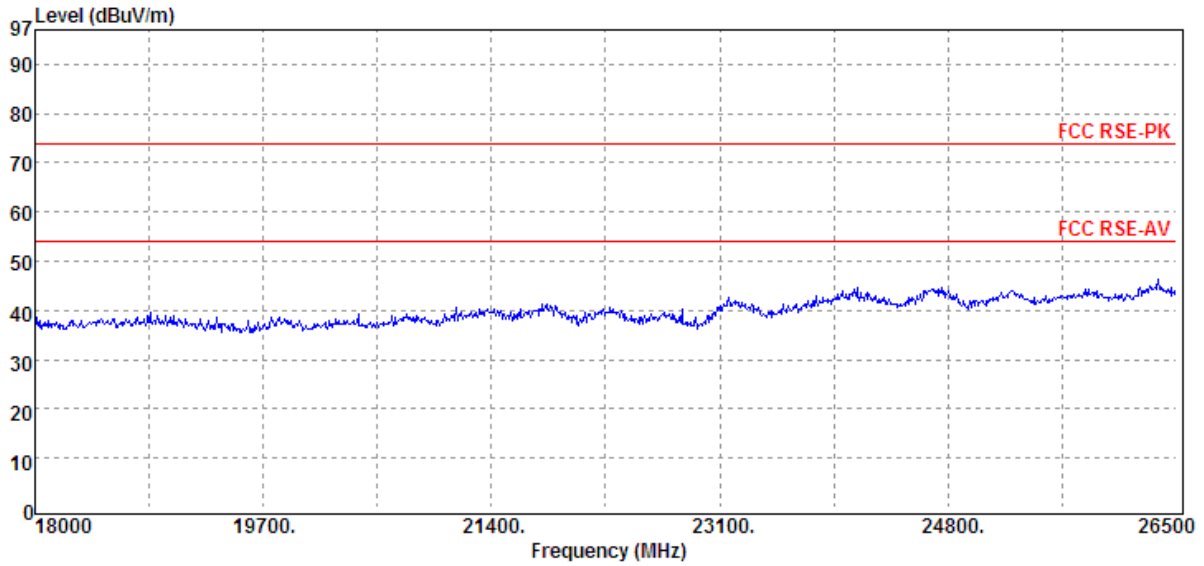
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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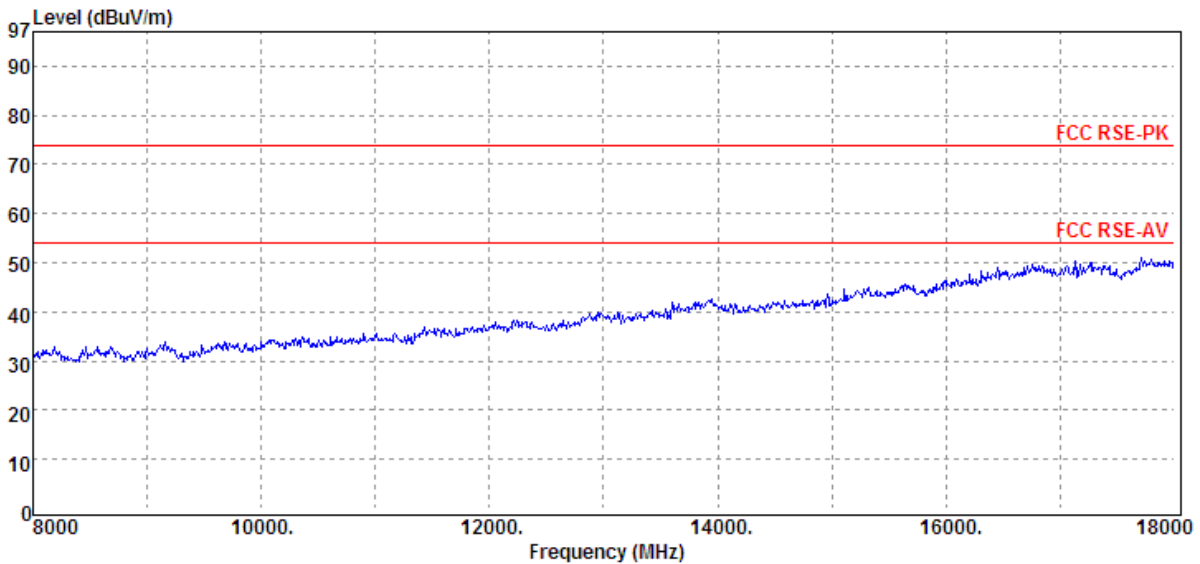
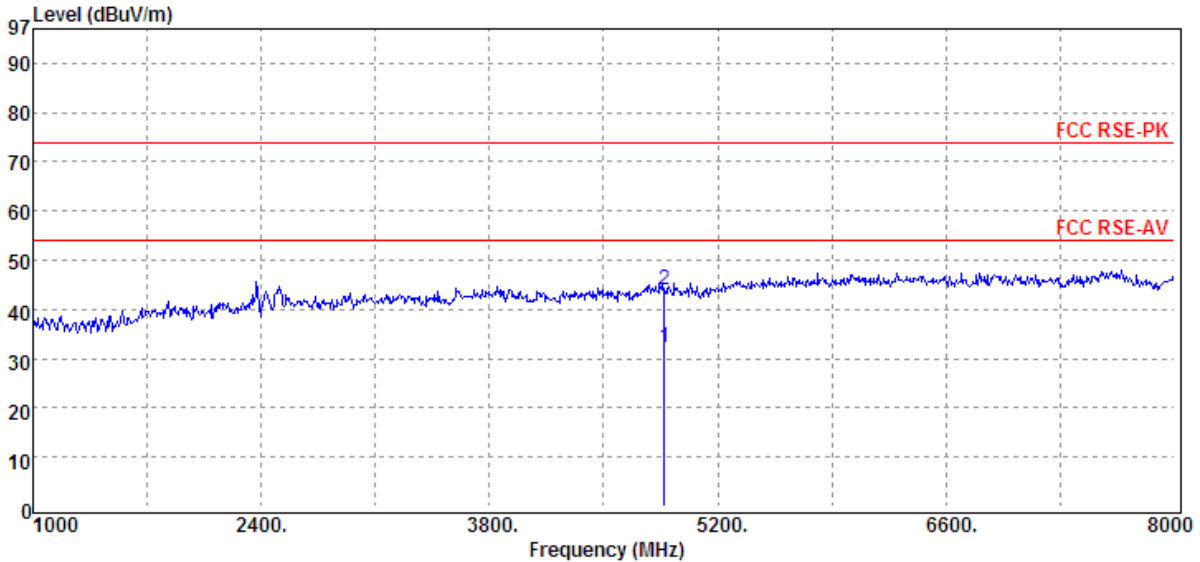


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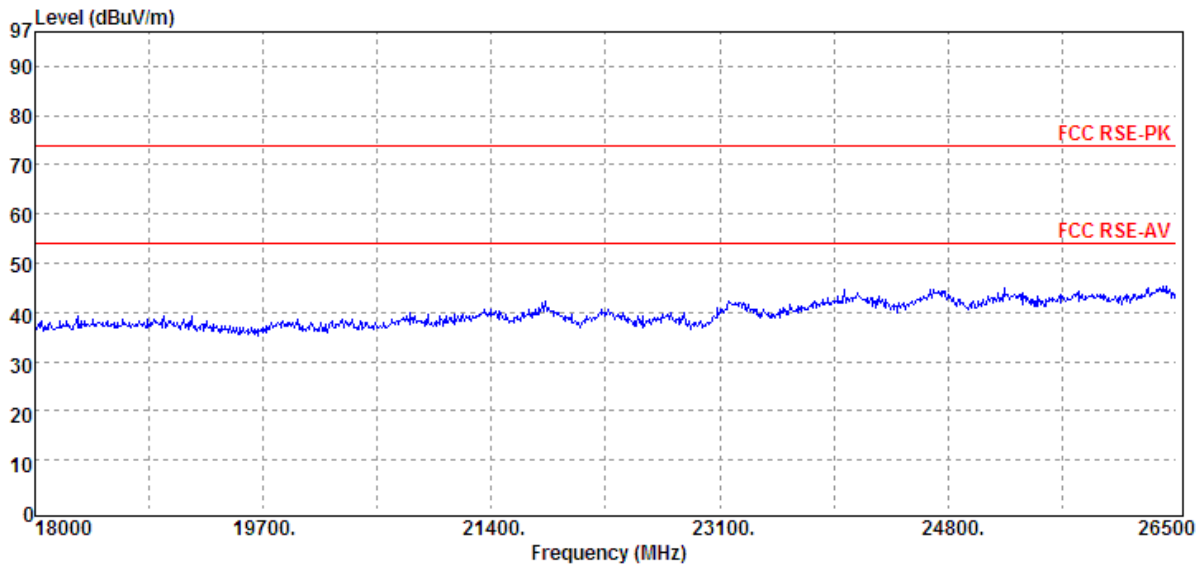
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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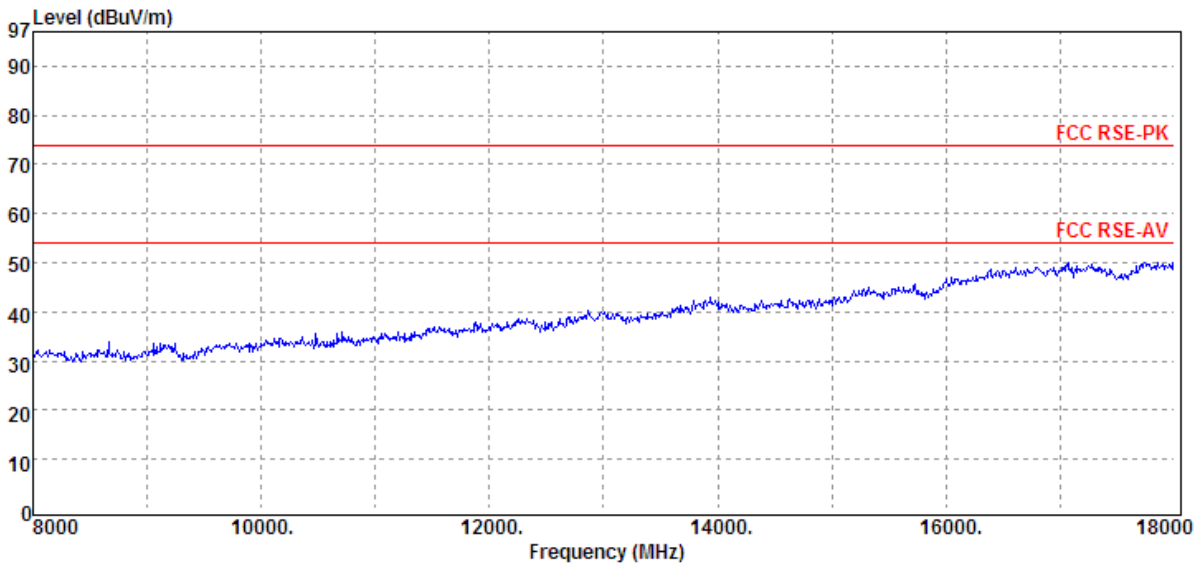
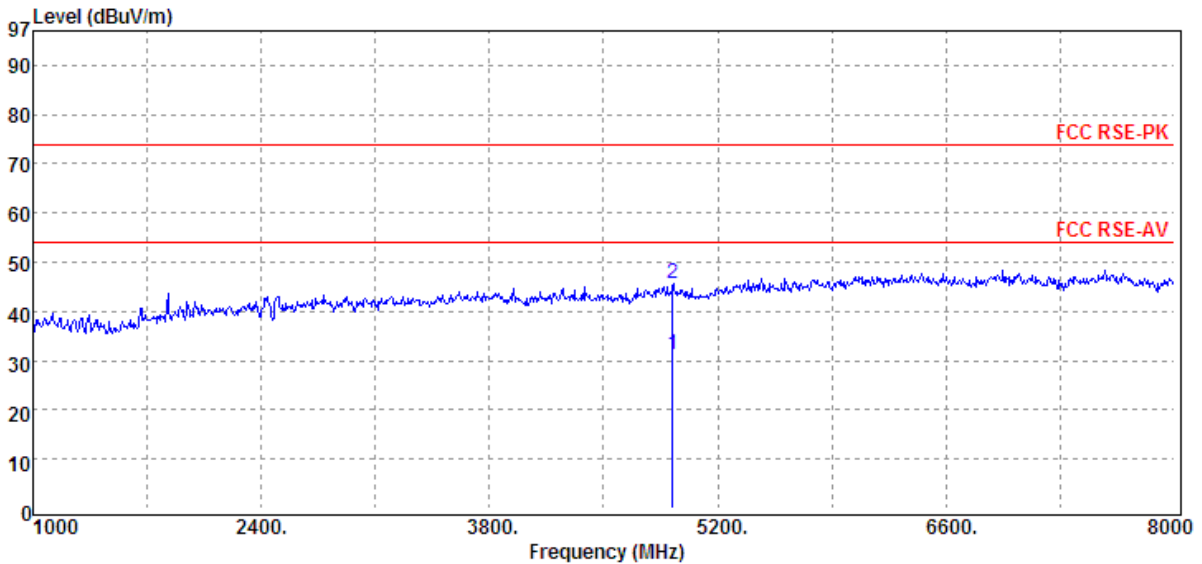
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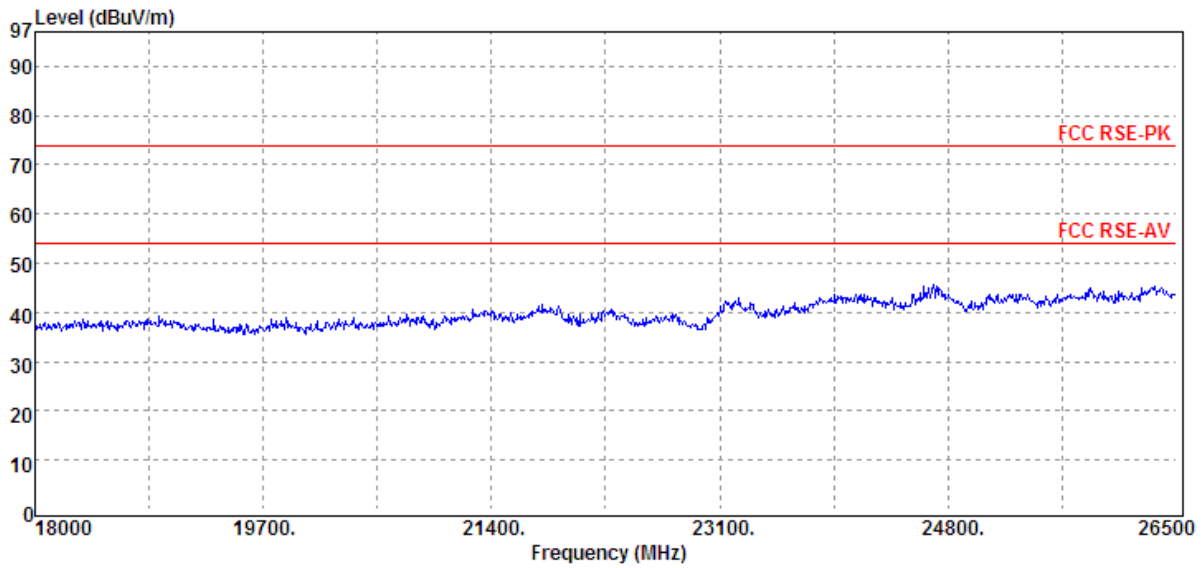
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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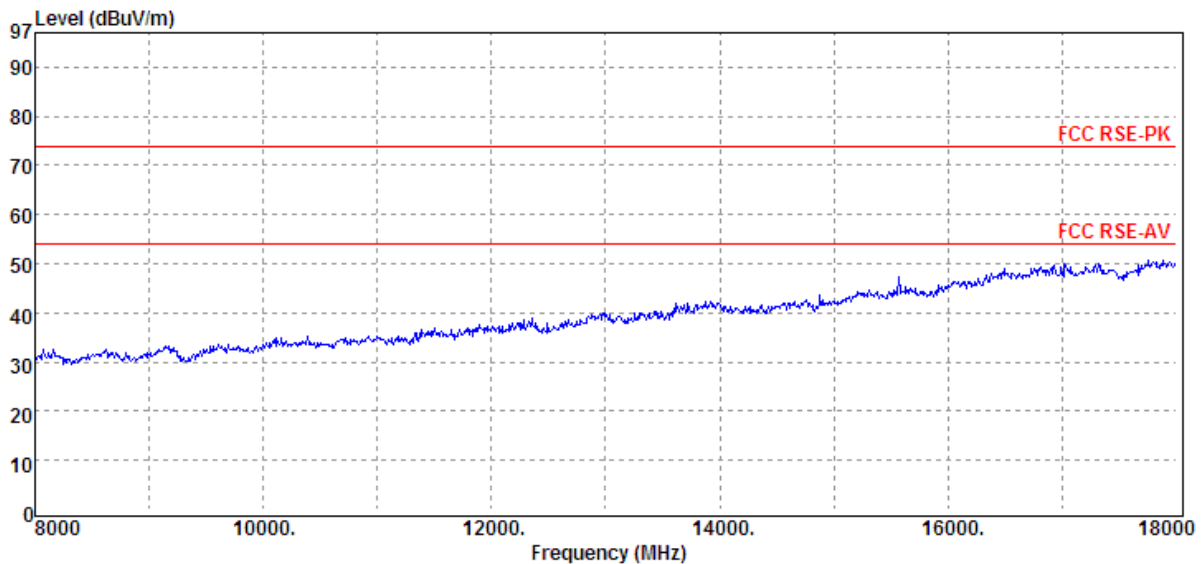
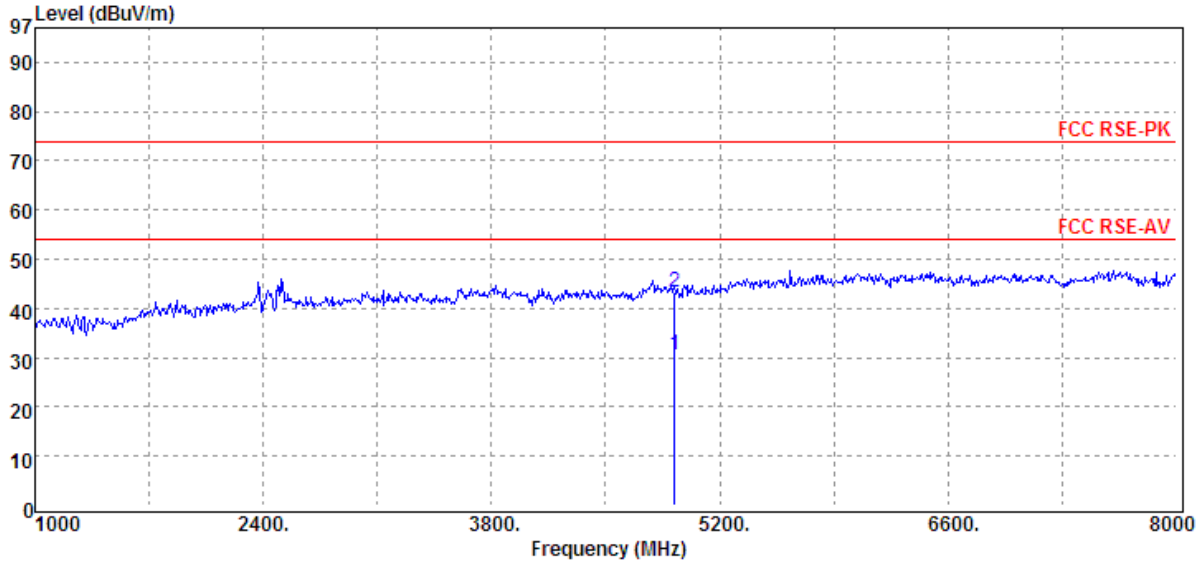


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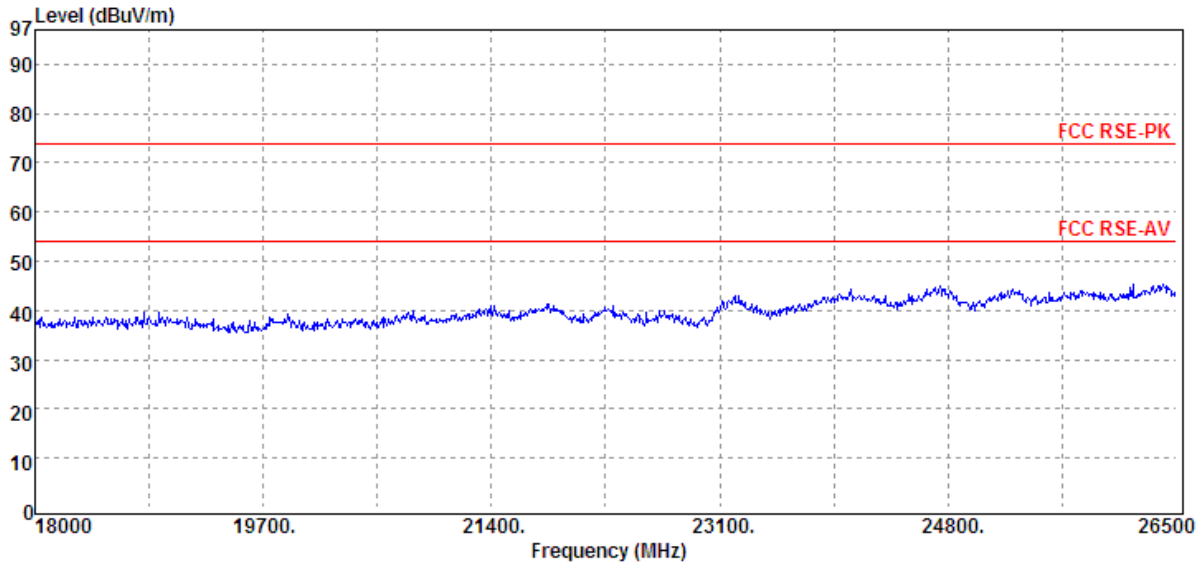
Operation Band	:802.11 g	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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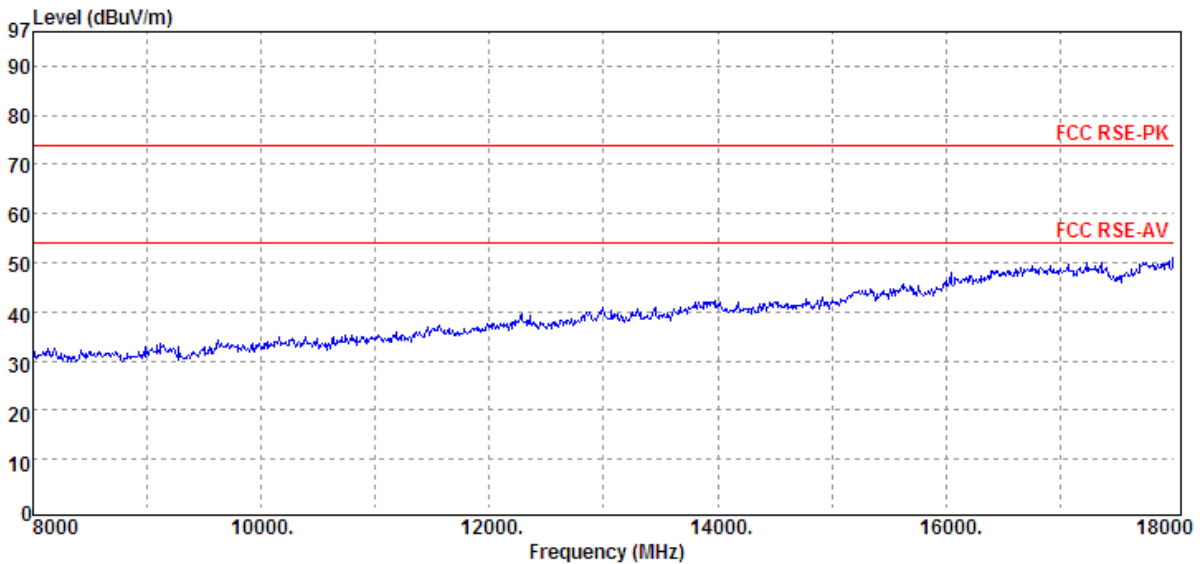
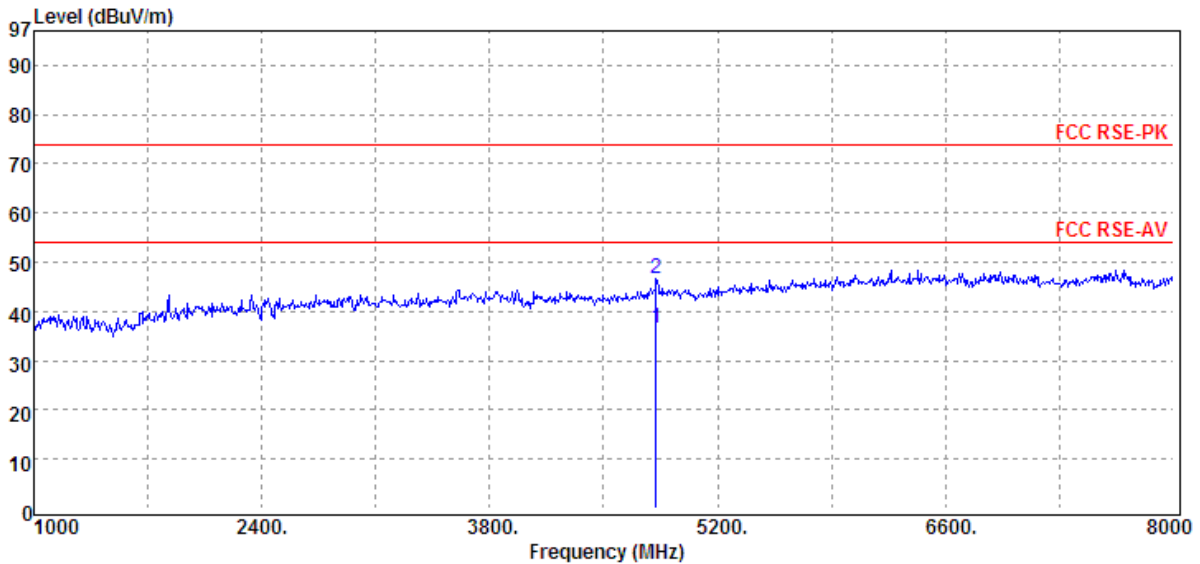


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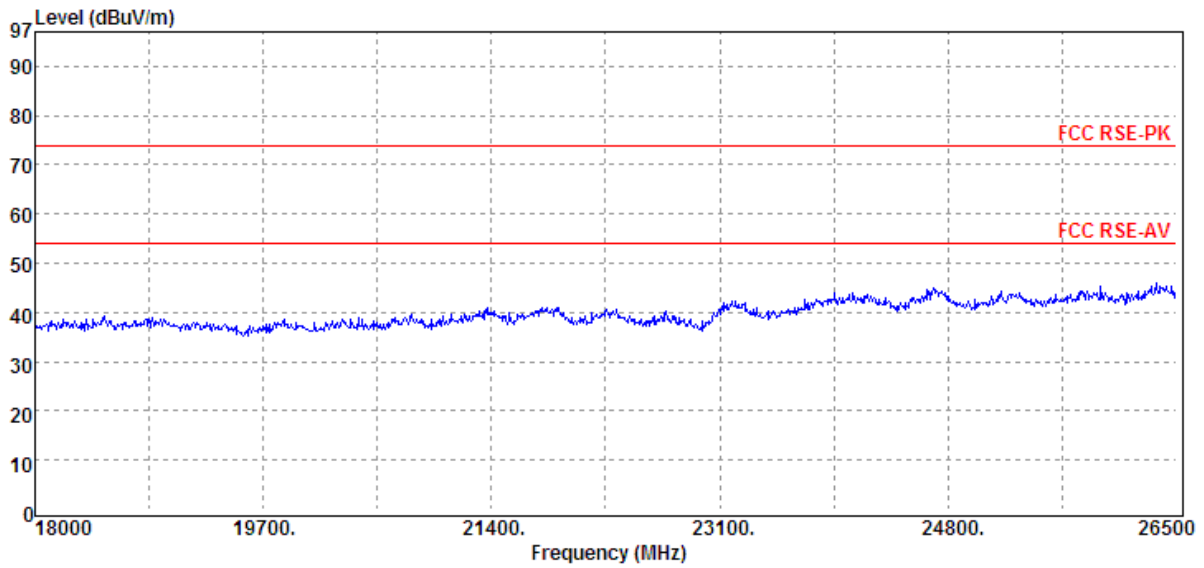
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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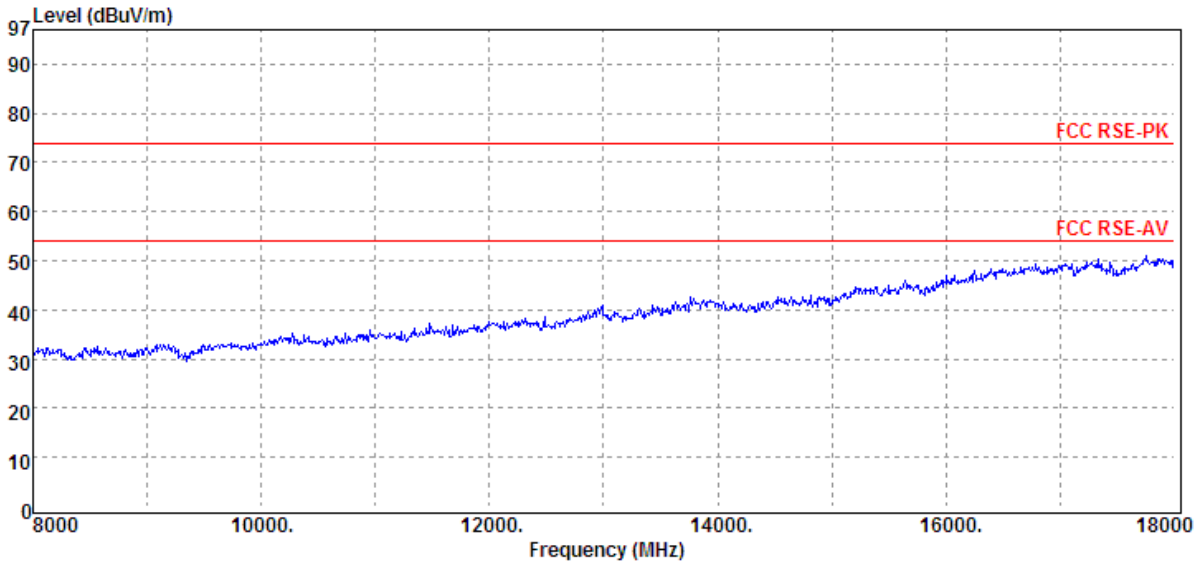
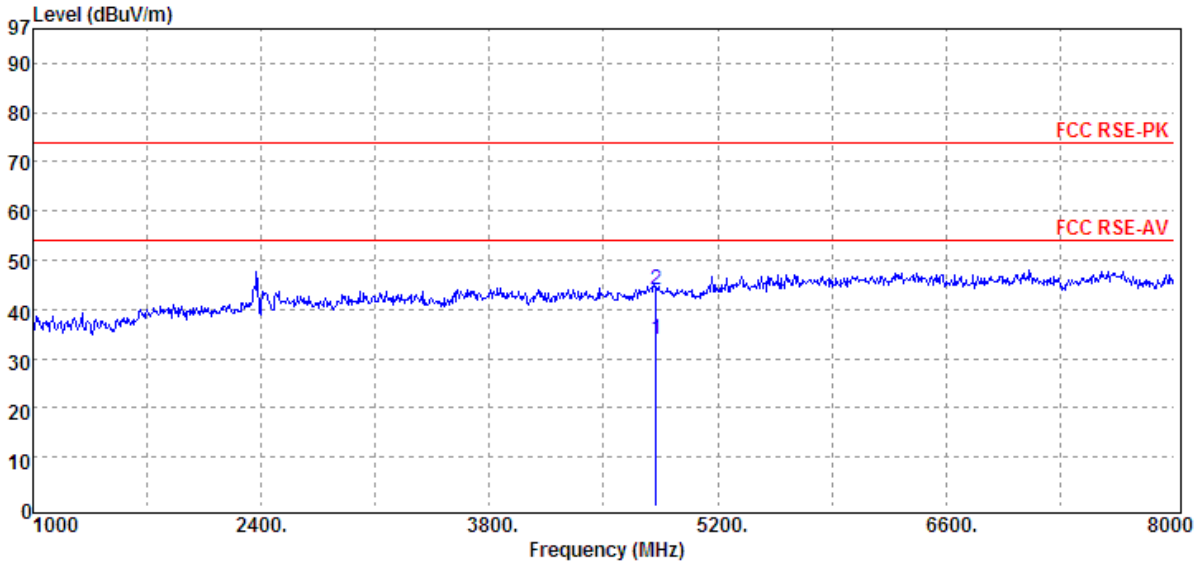


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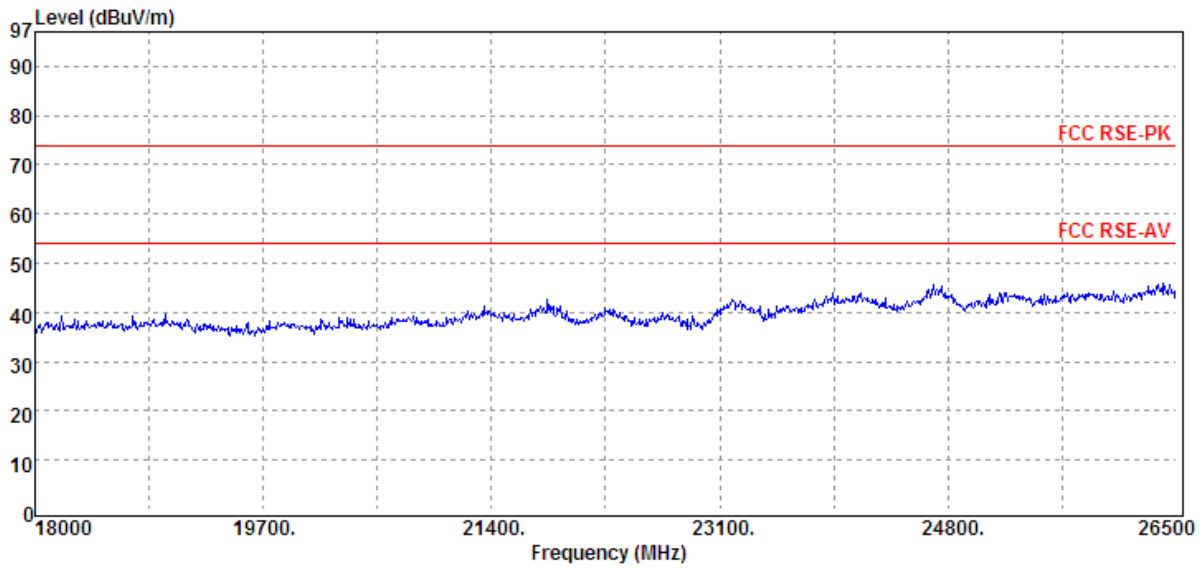
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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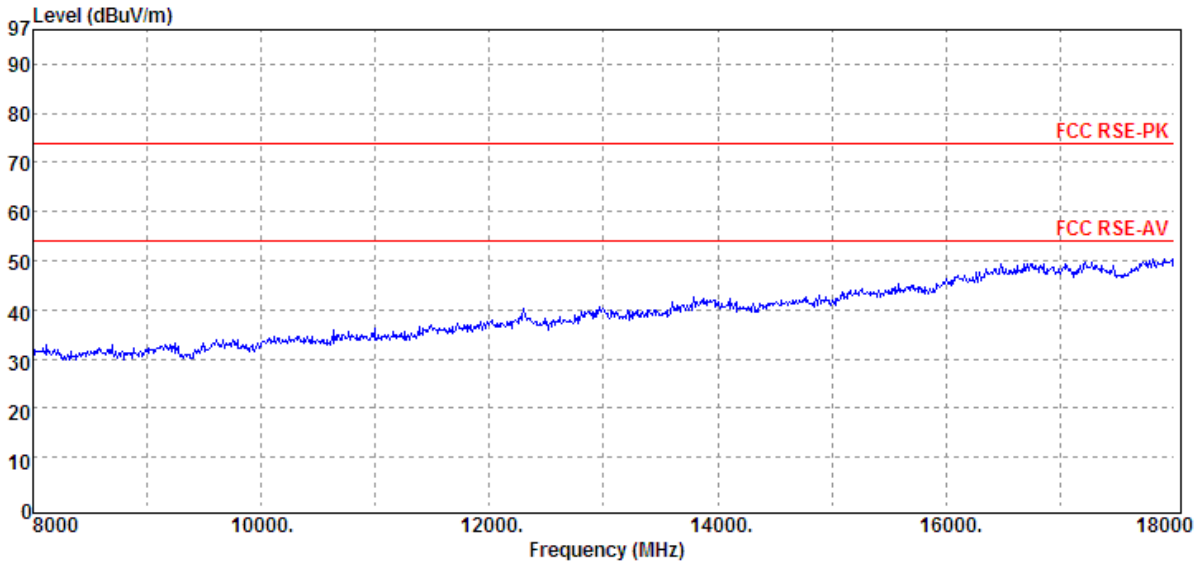
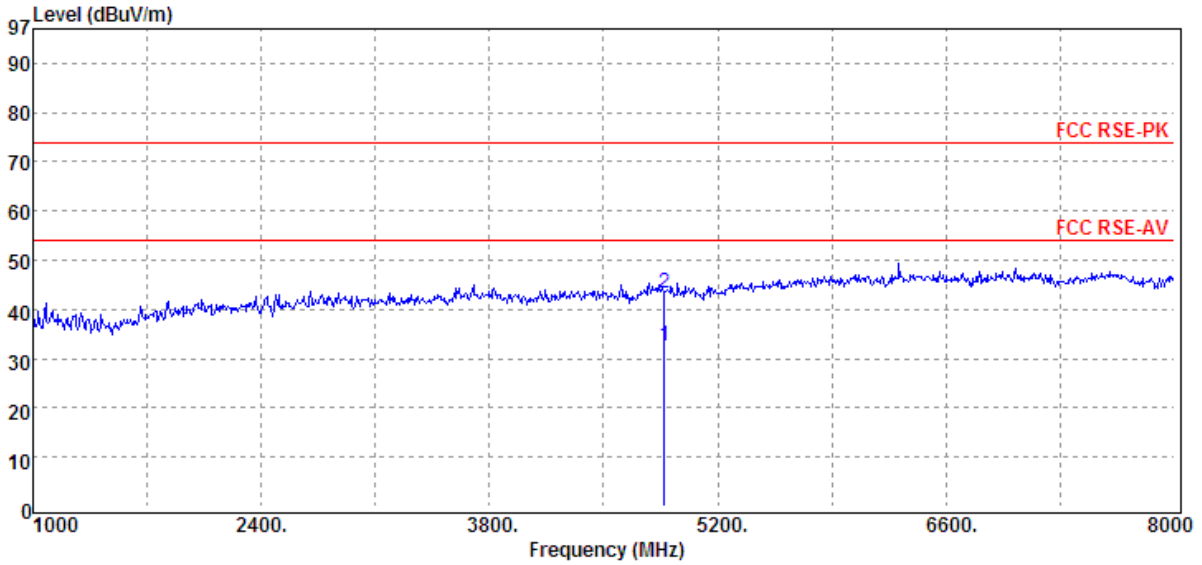
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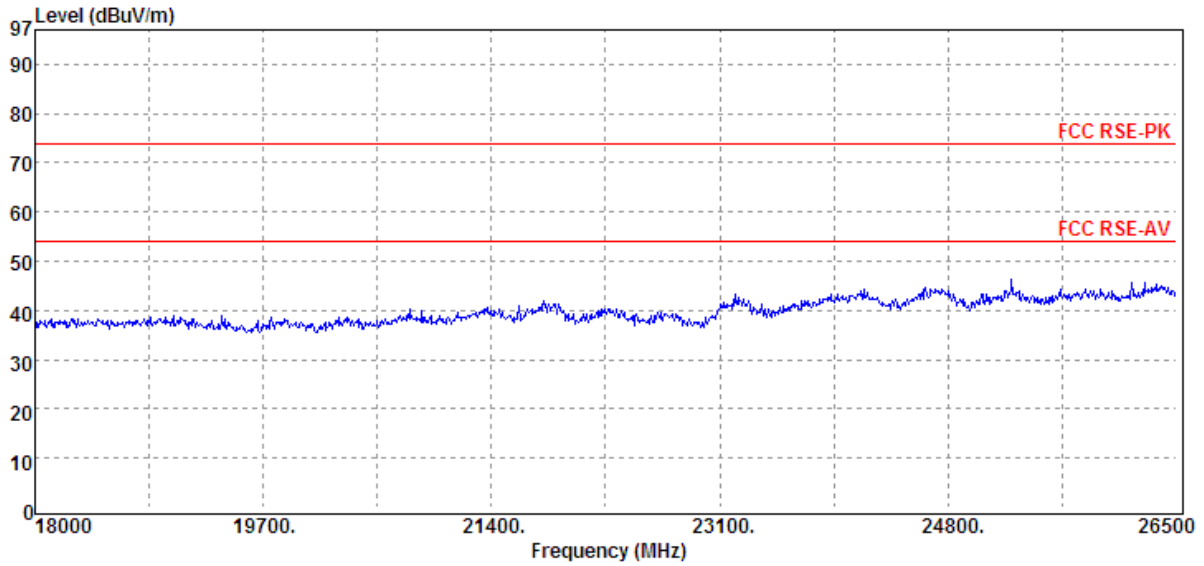
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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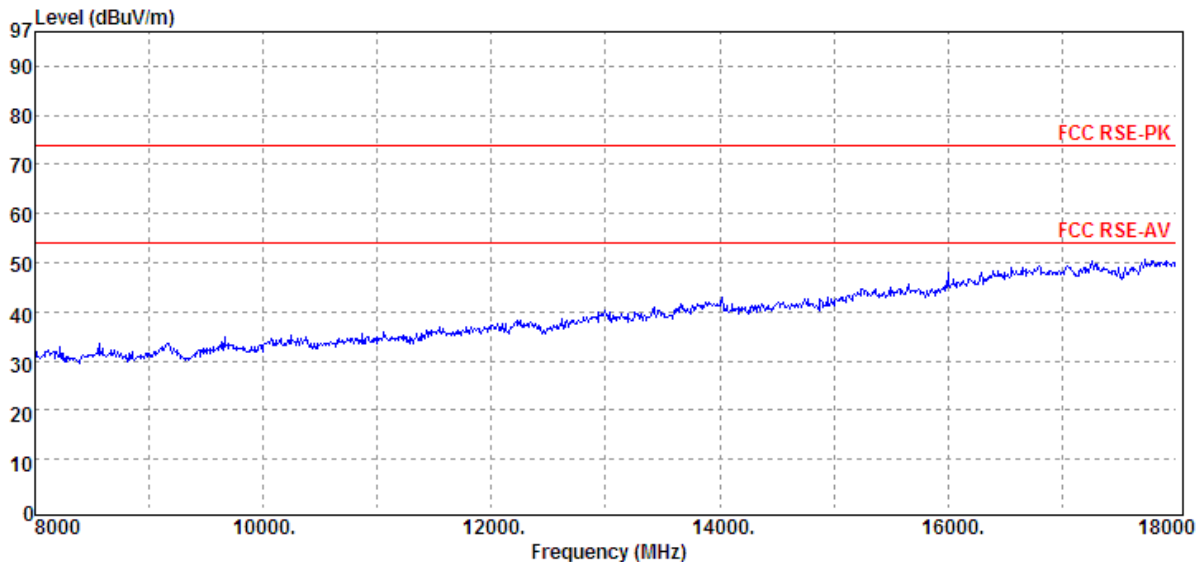
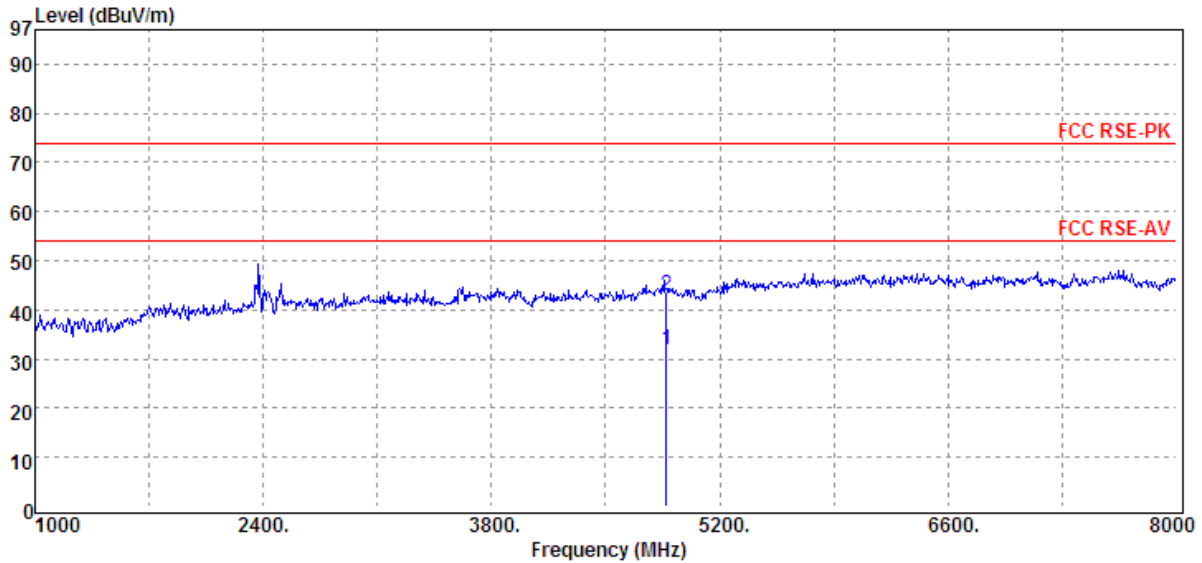


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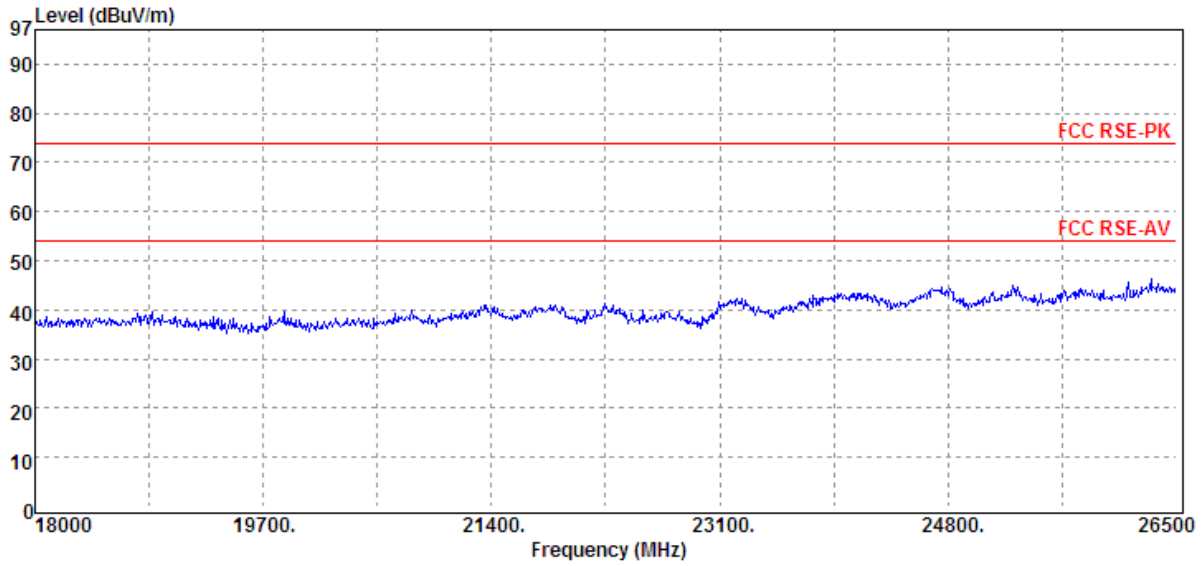
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2437 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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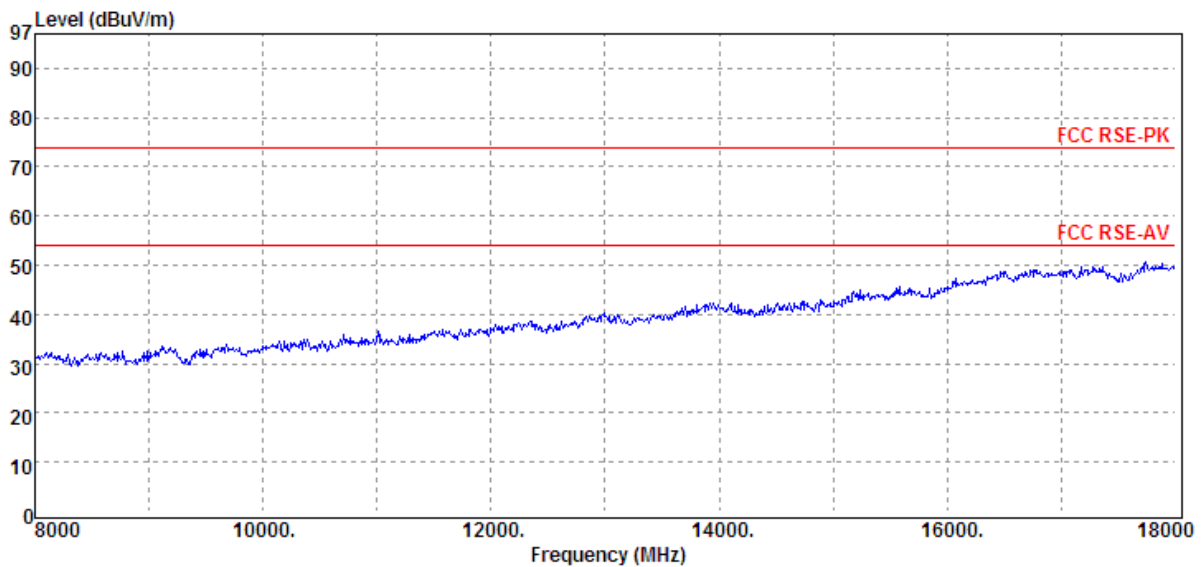
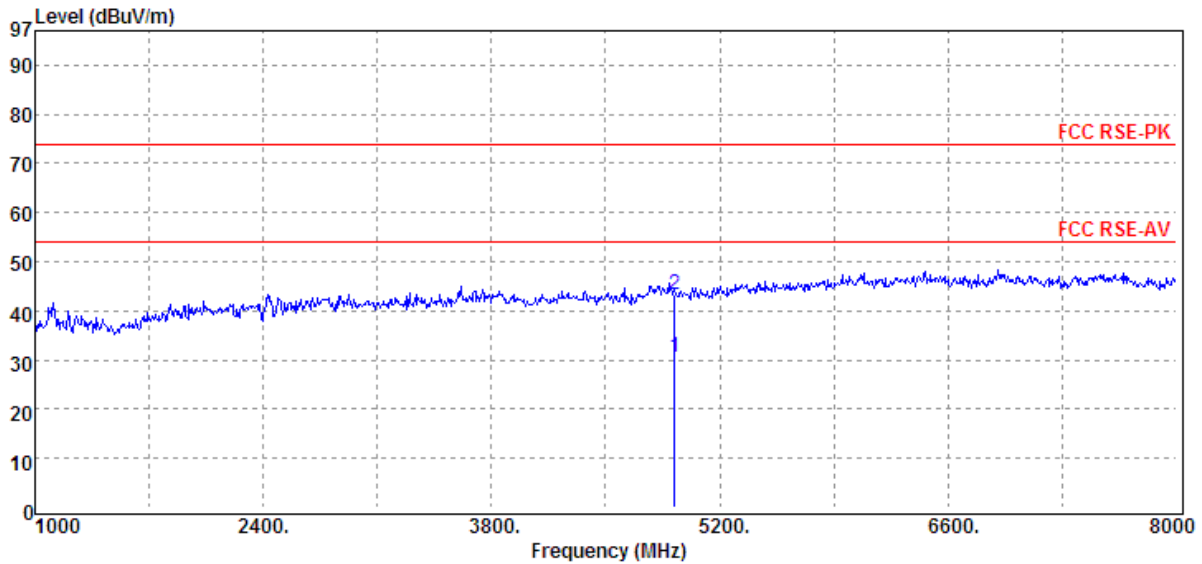


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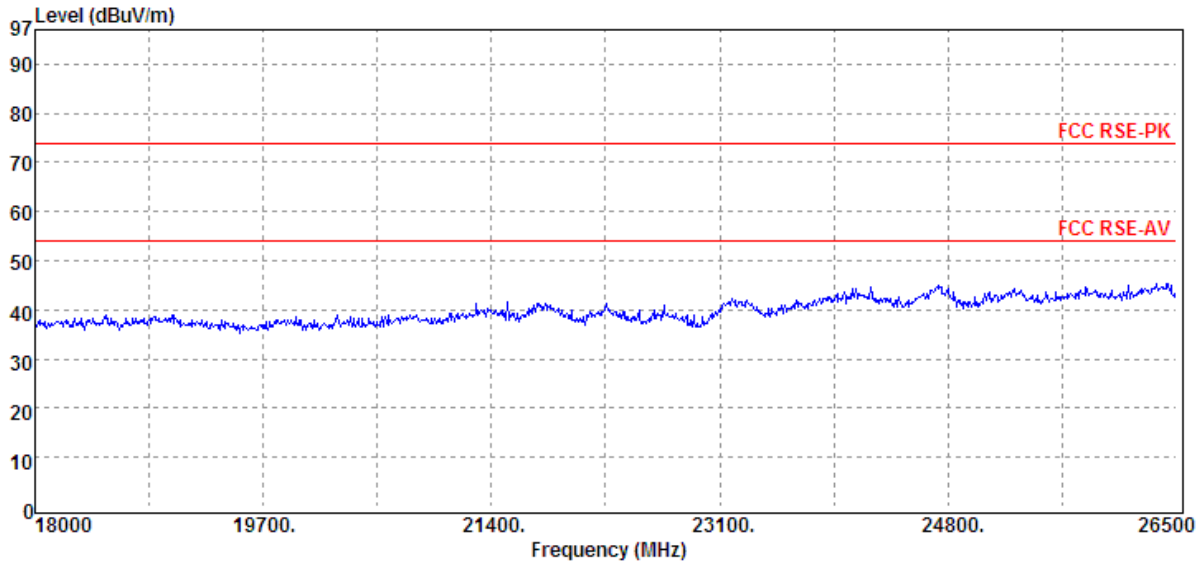
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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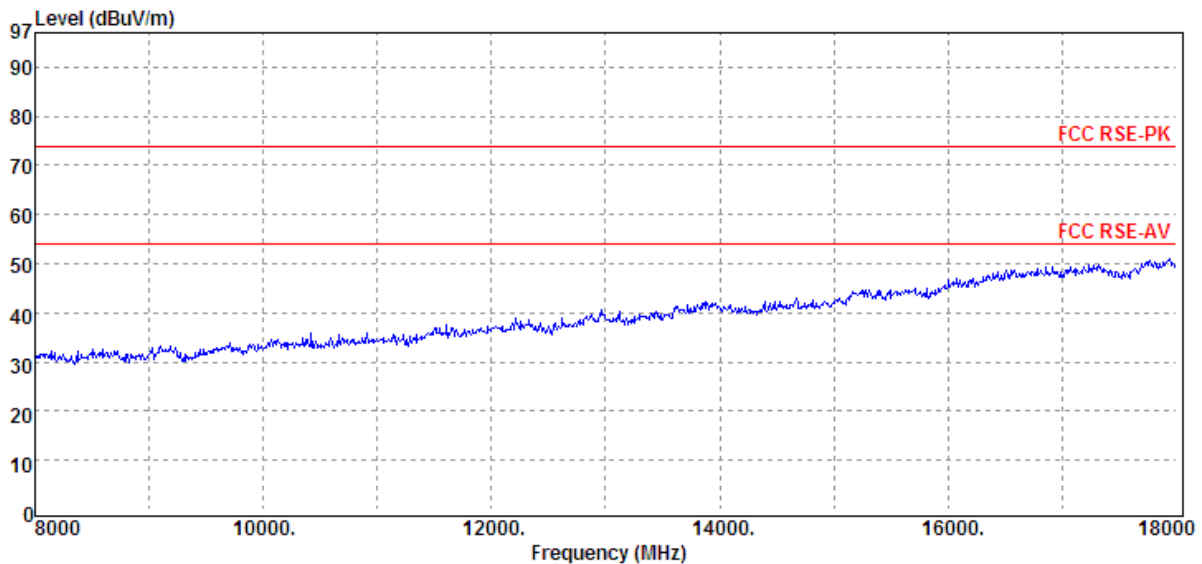
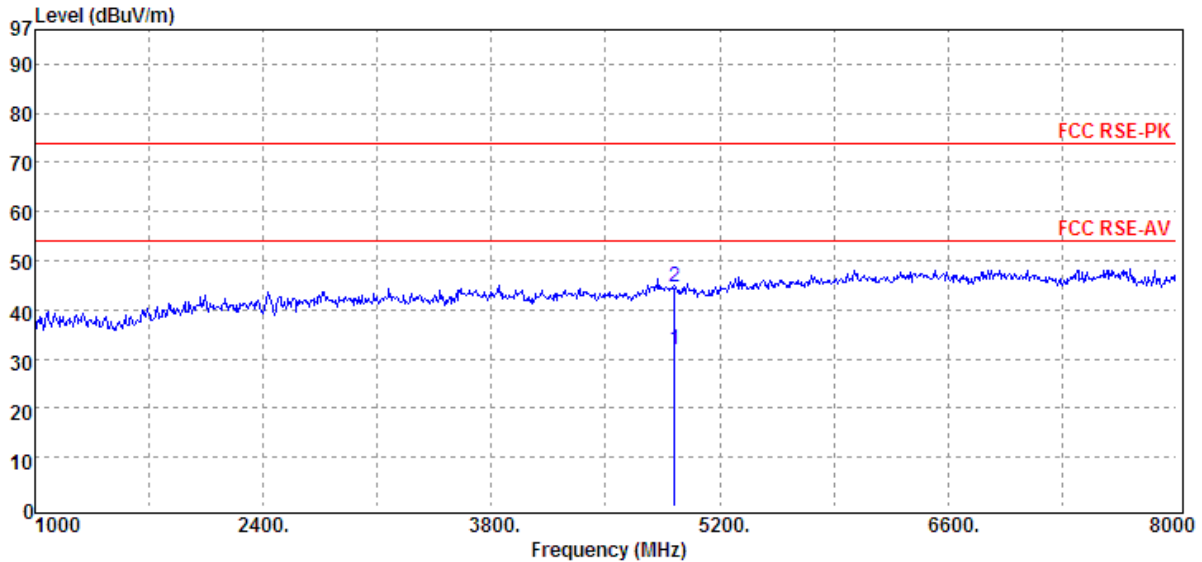


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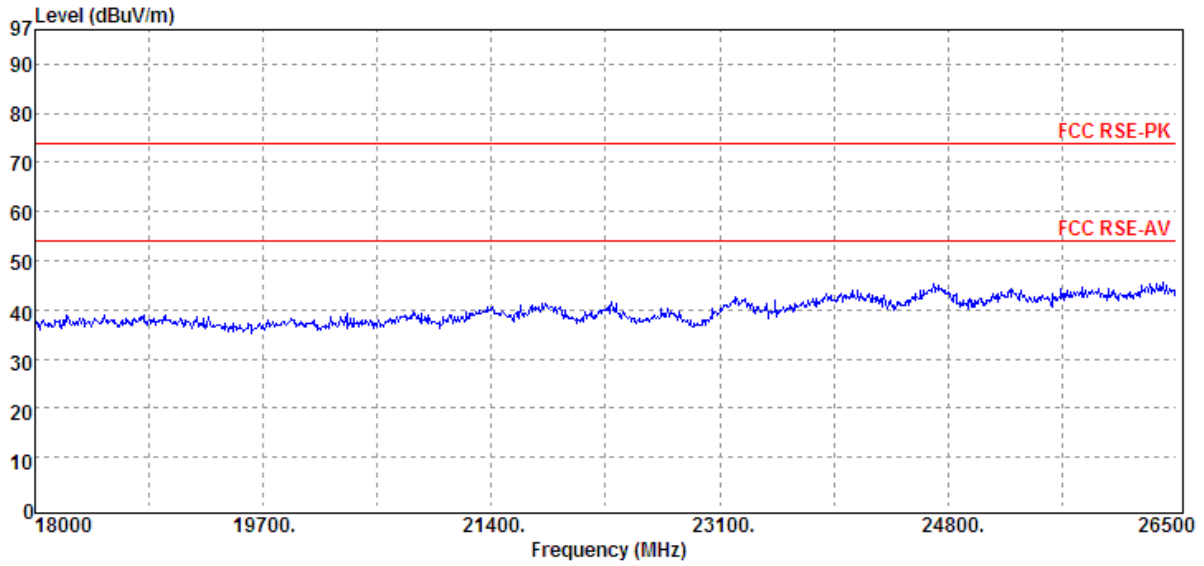
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23deg_C/52RH
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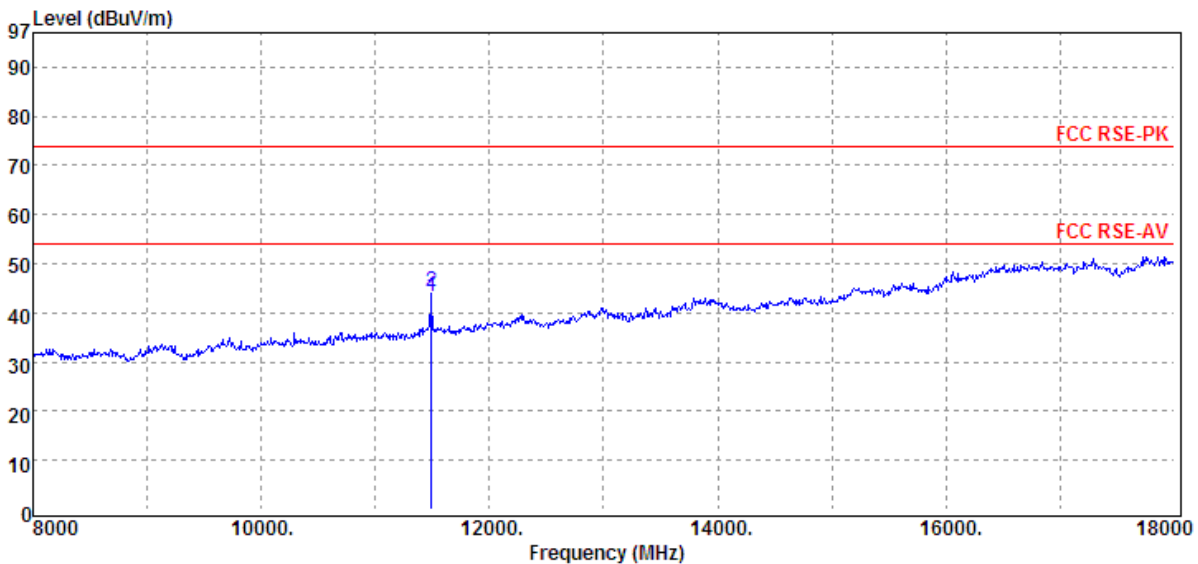
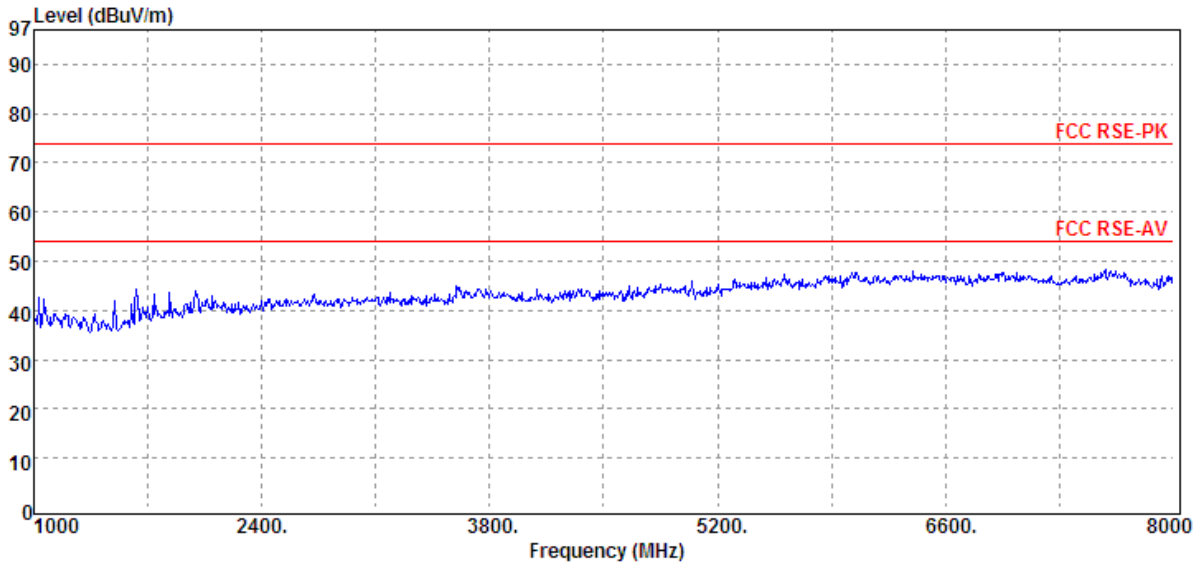
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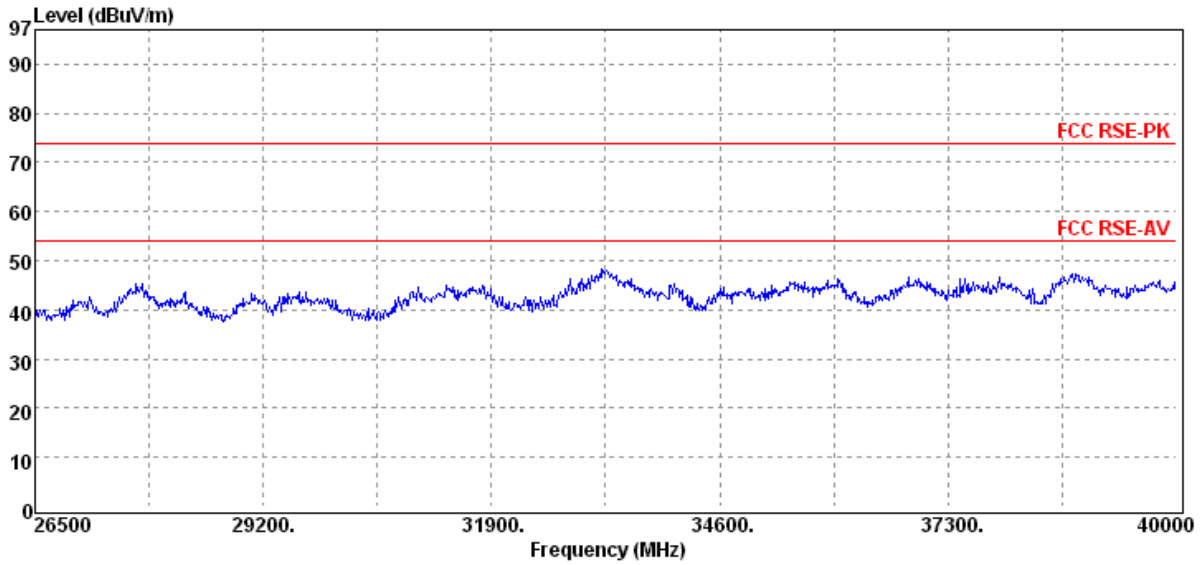
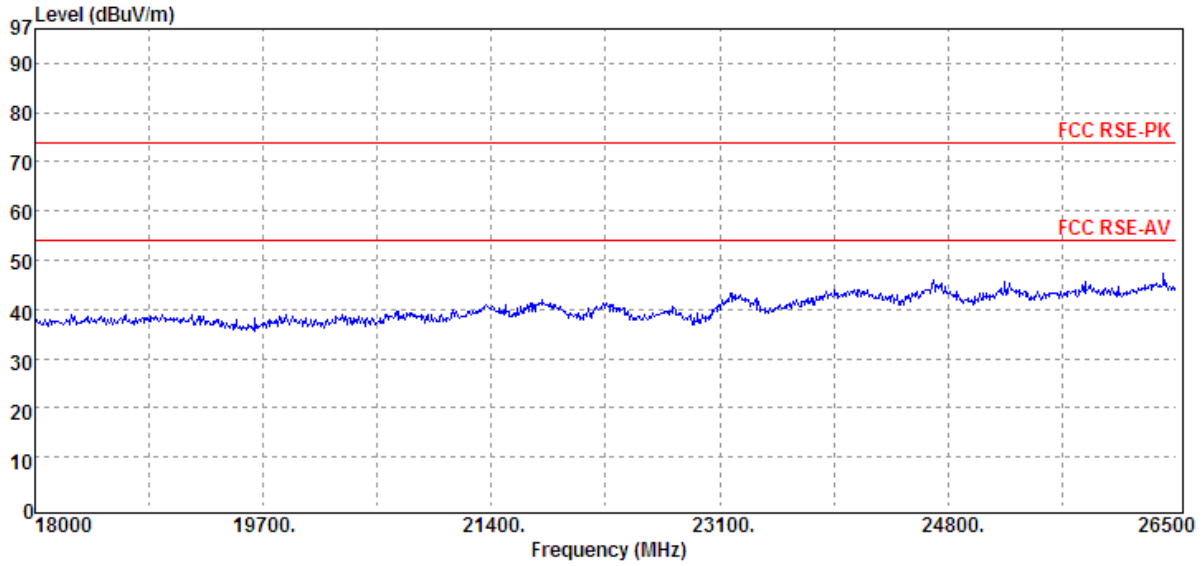
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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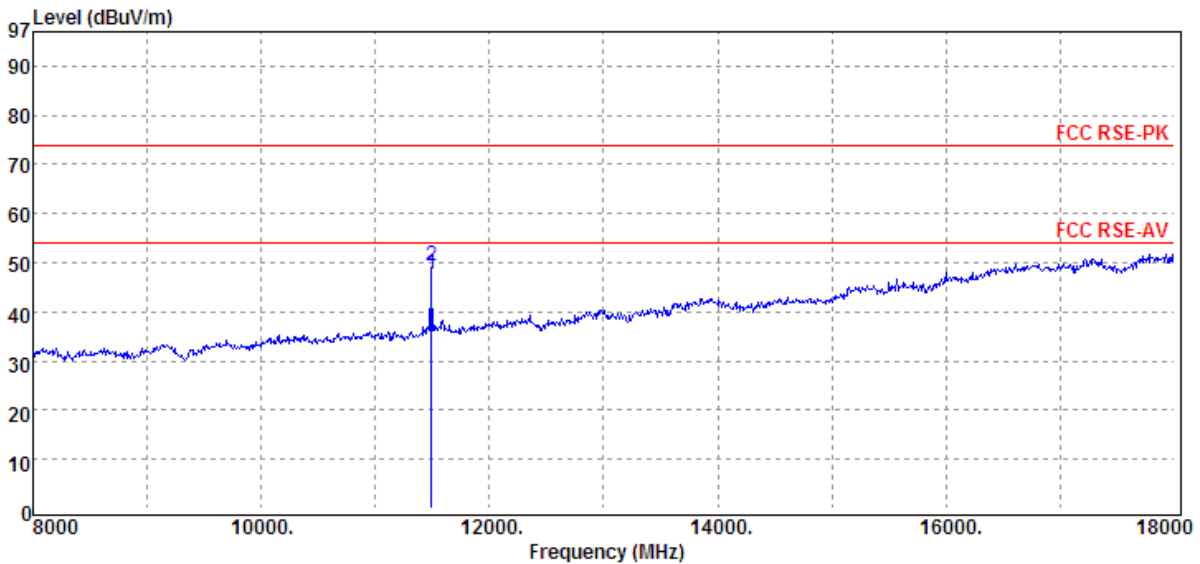
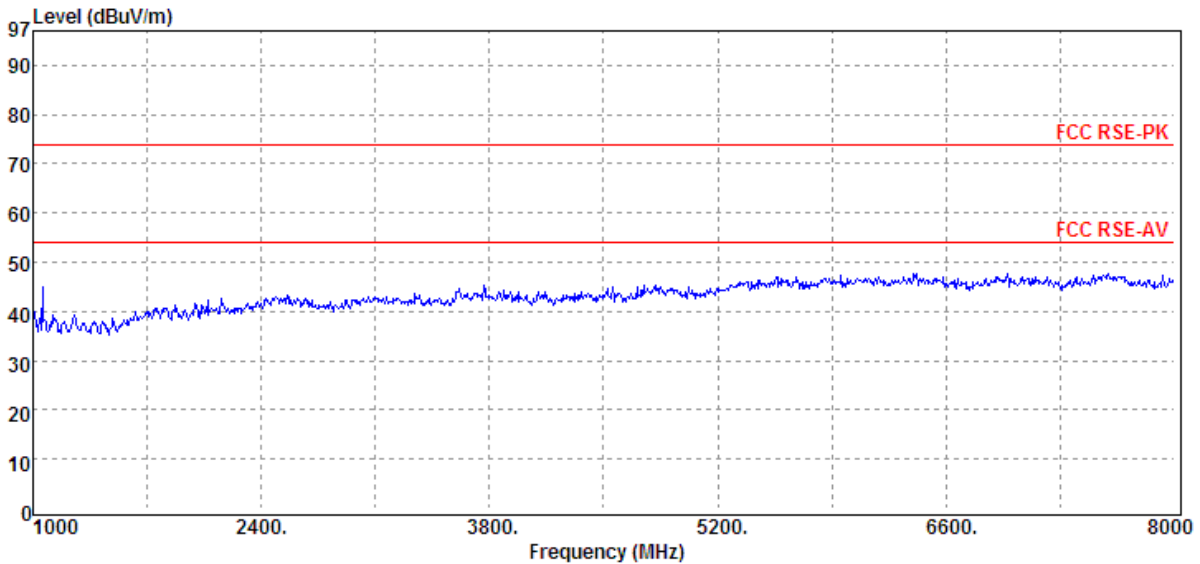


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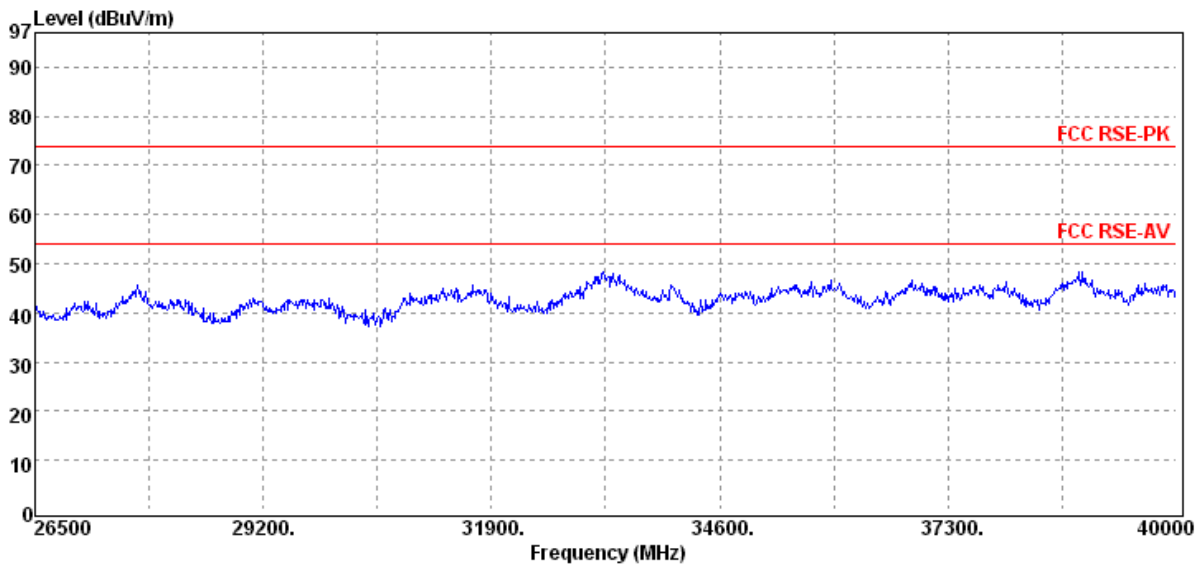
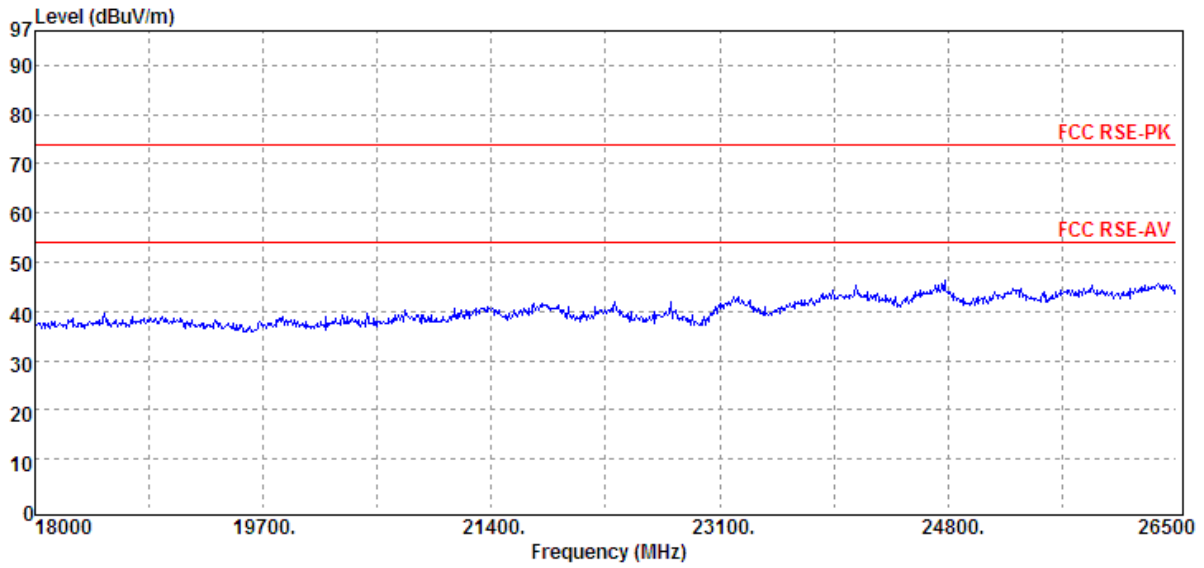
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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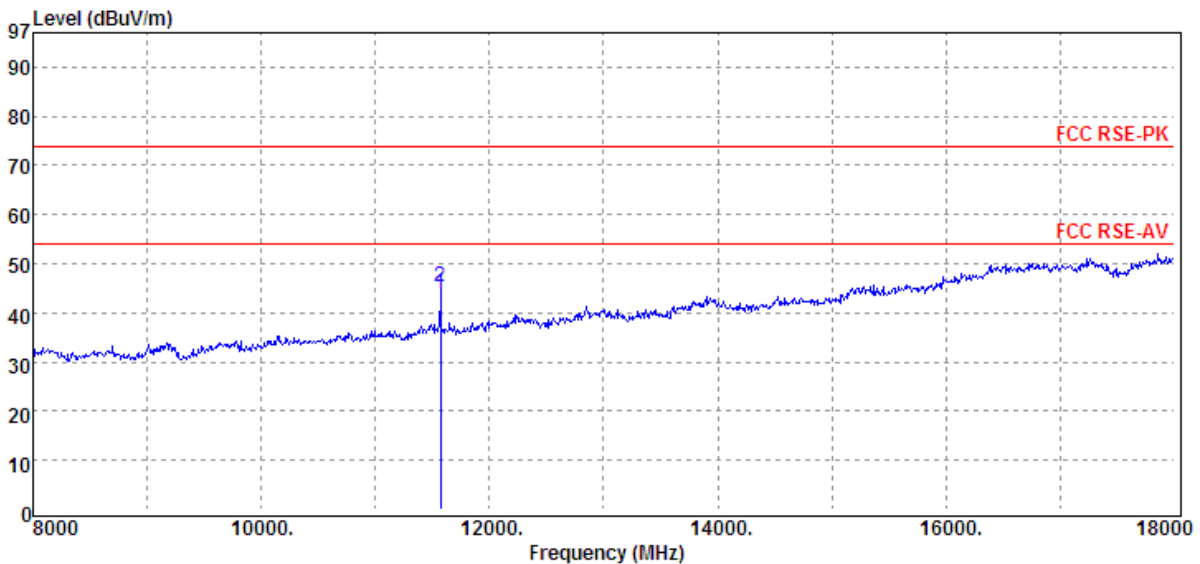
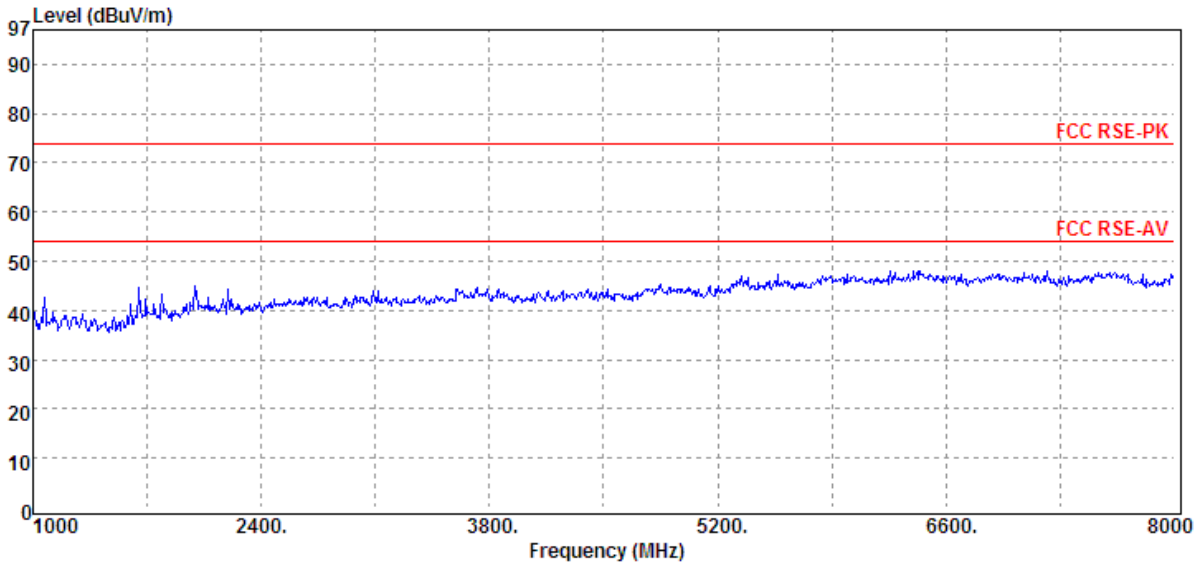


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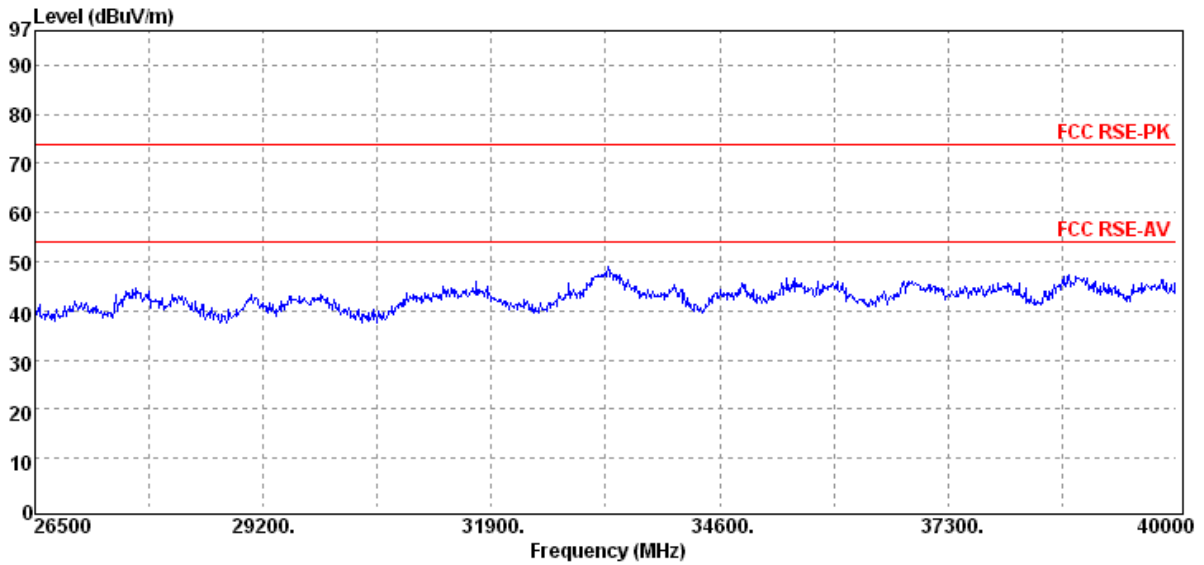
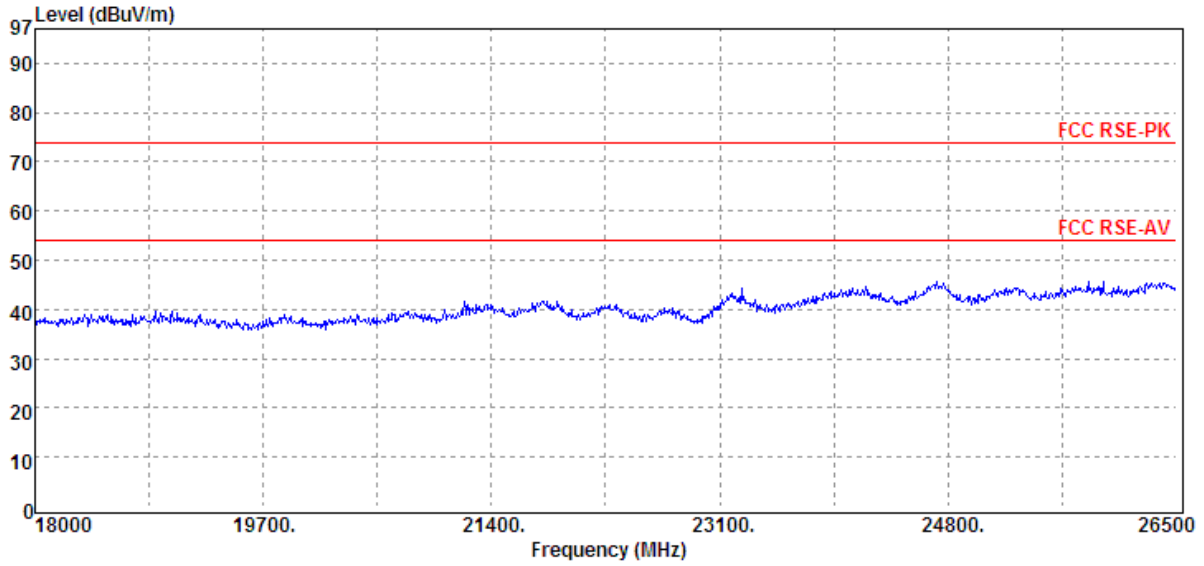
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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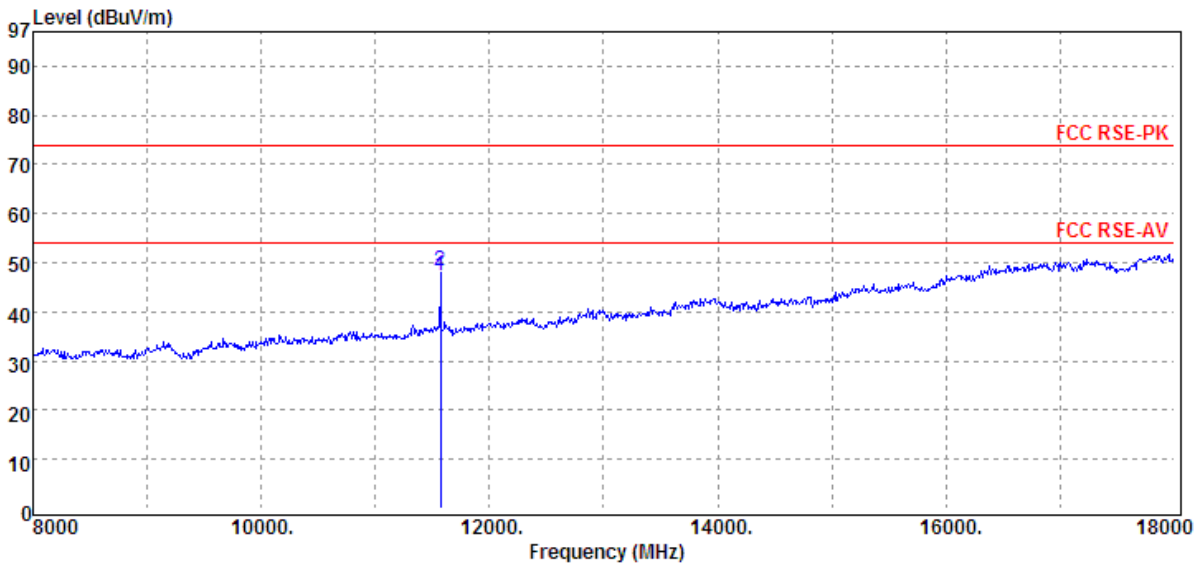
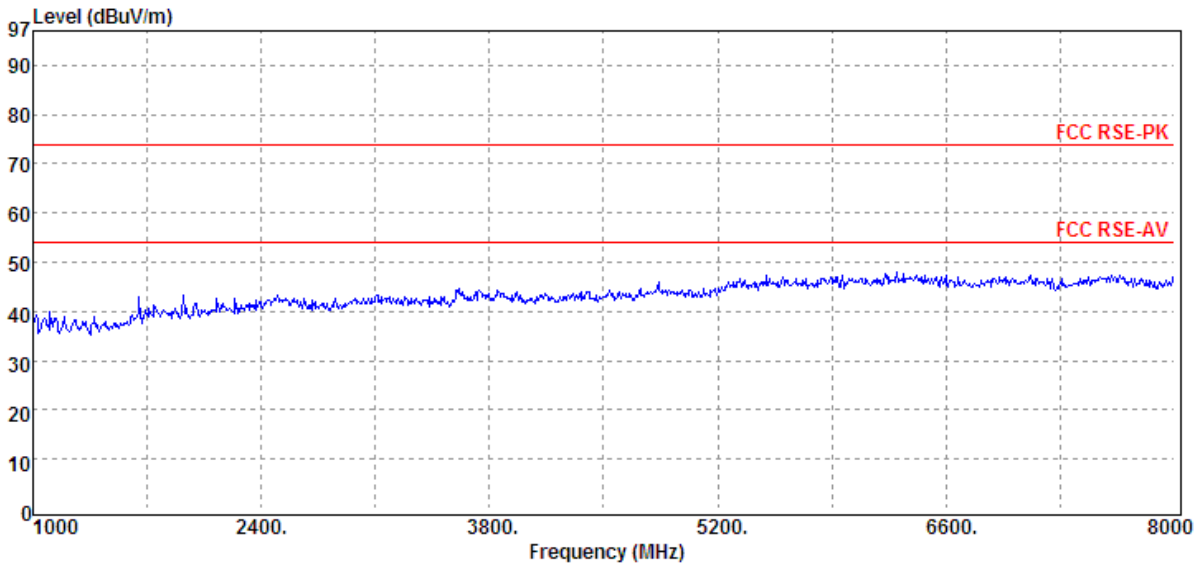


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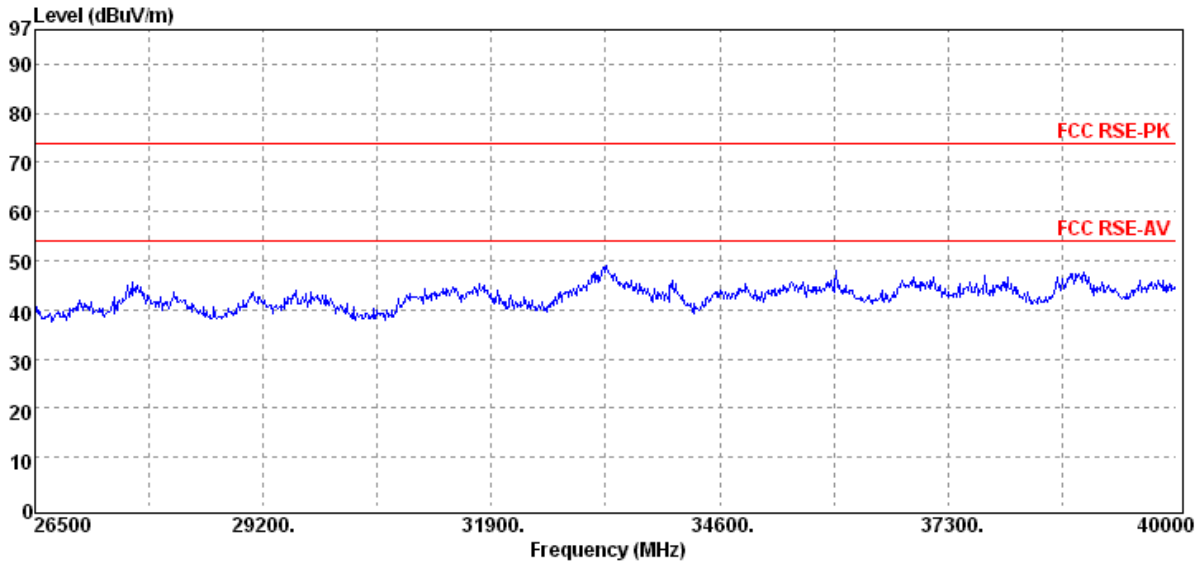
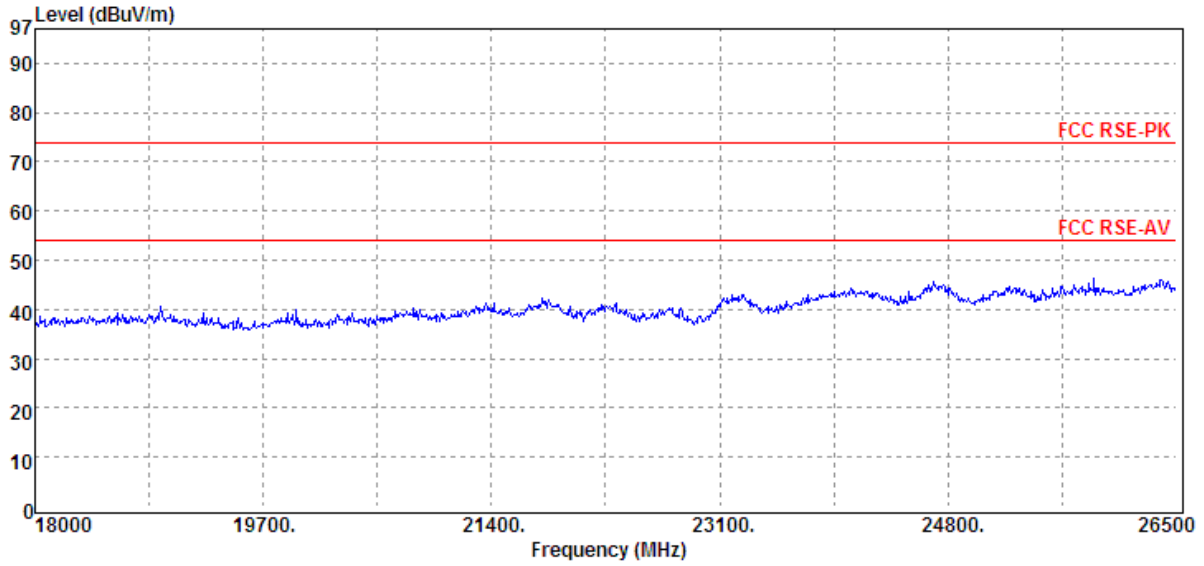
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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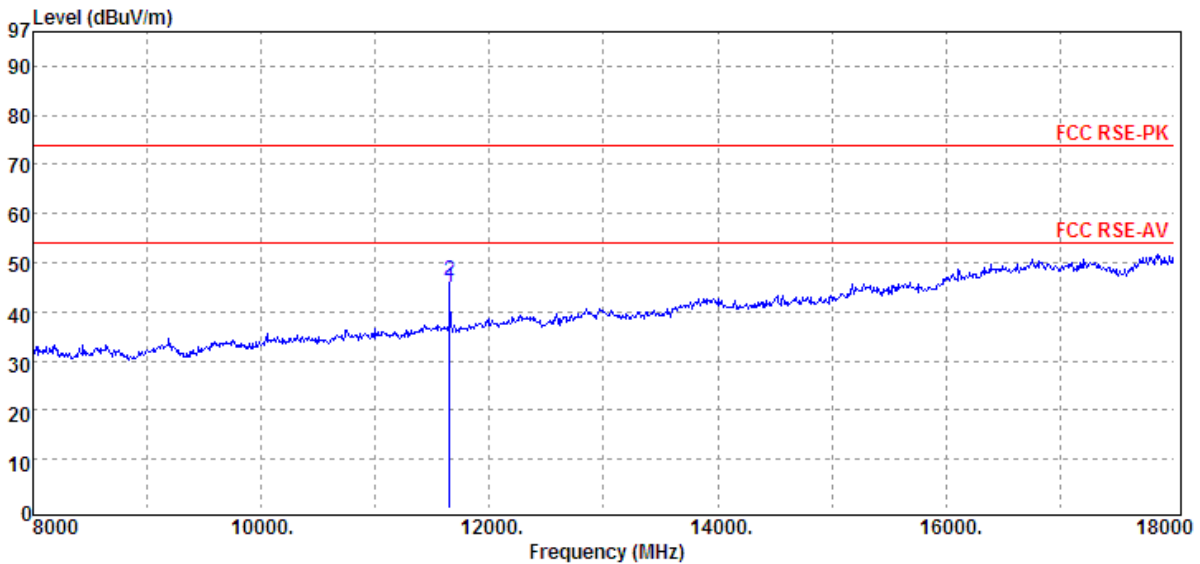
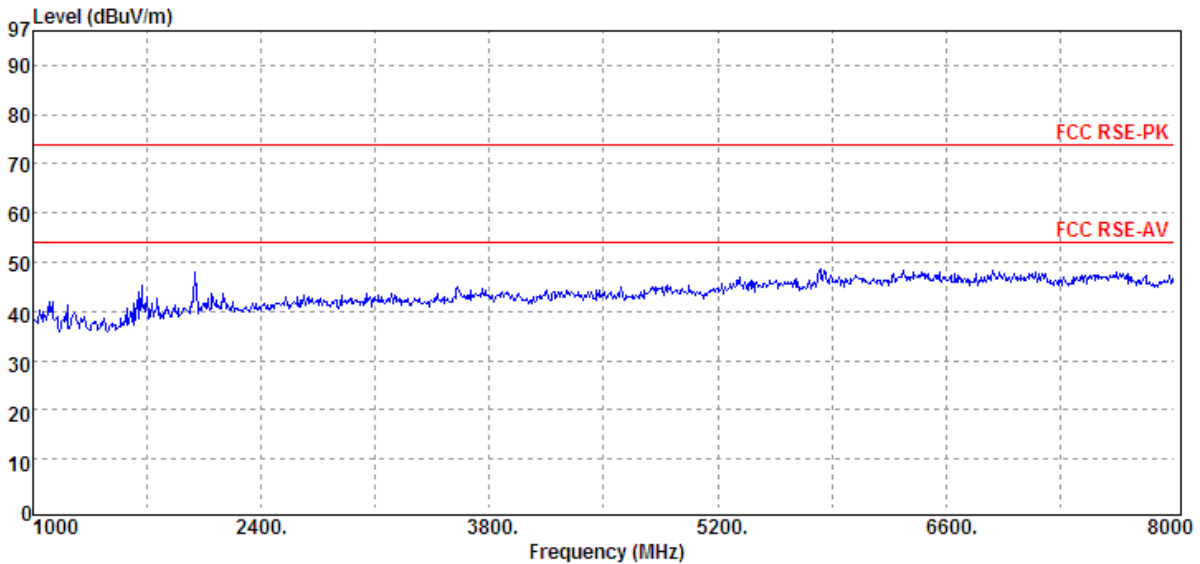
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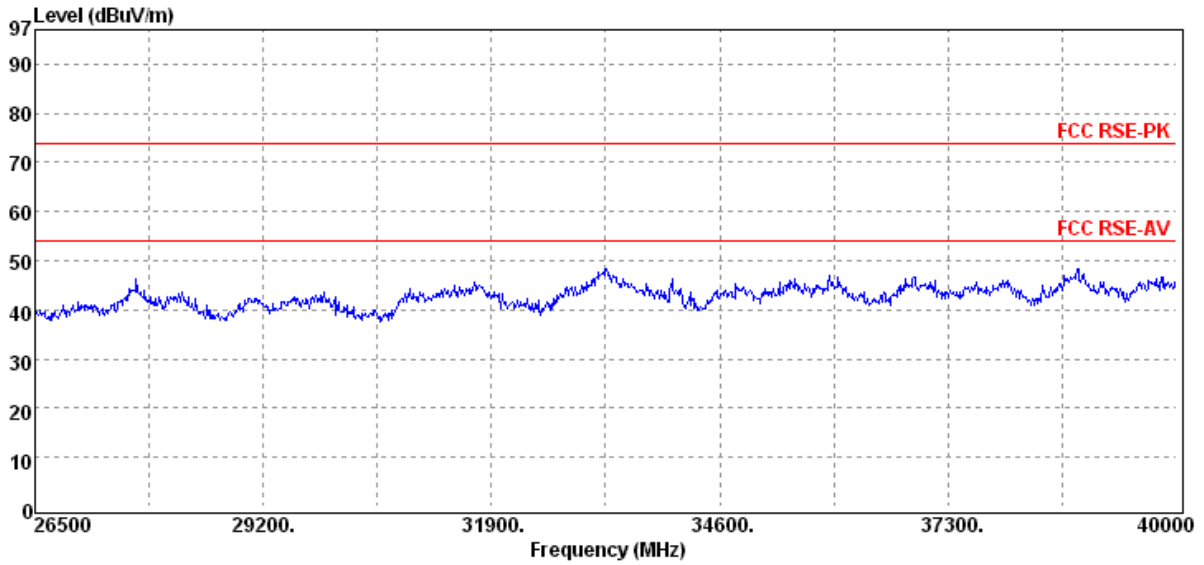
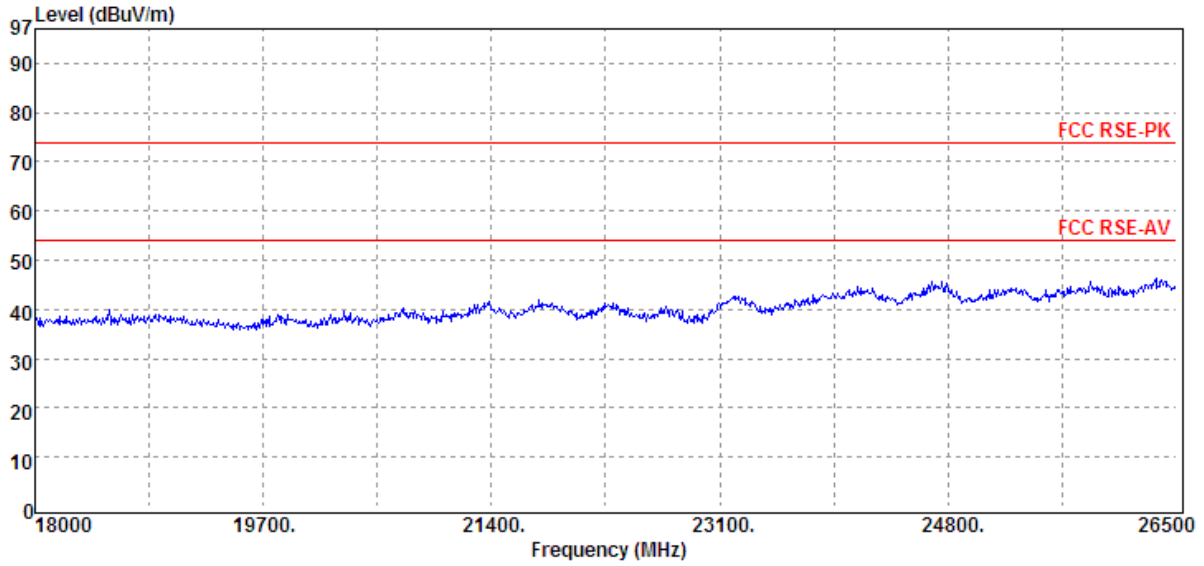
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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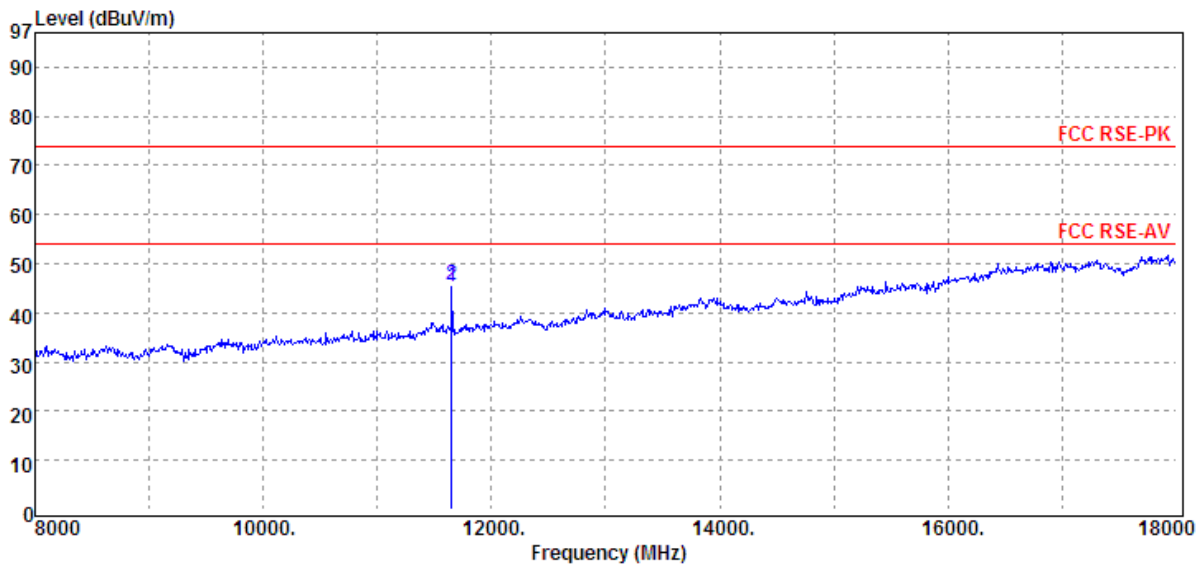
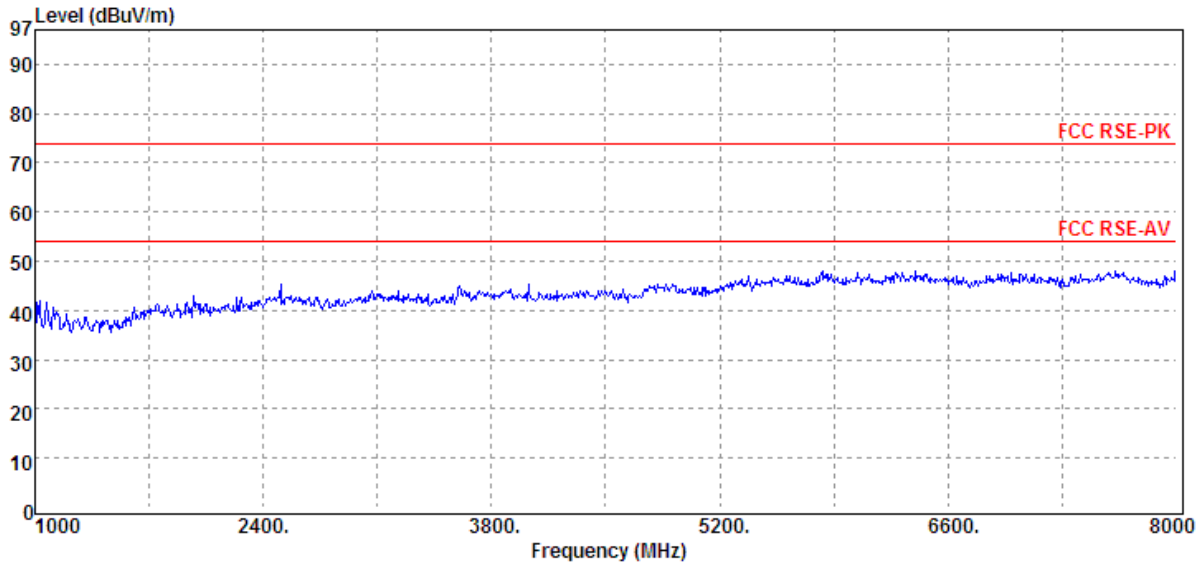


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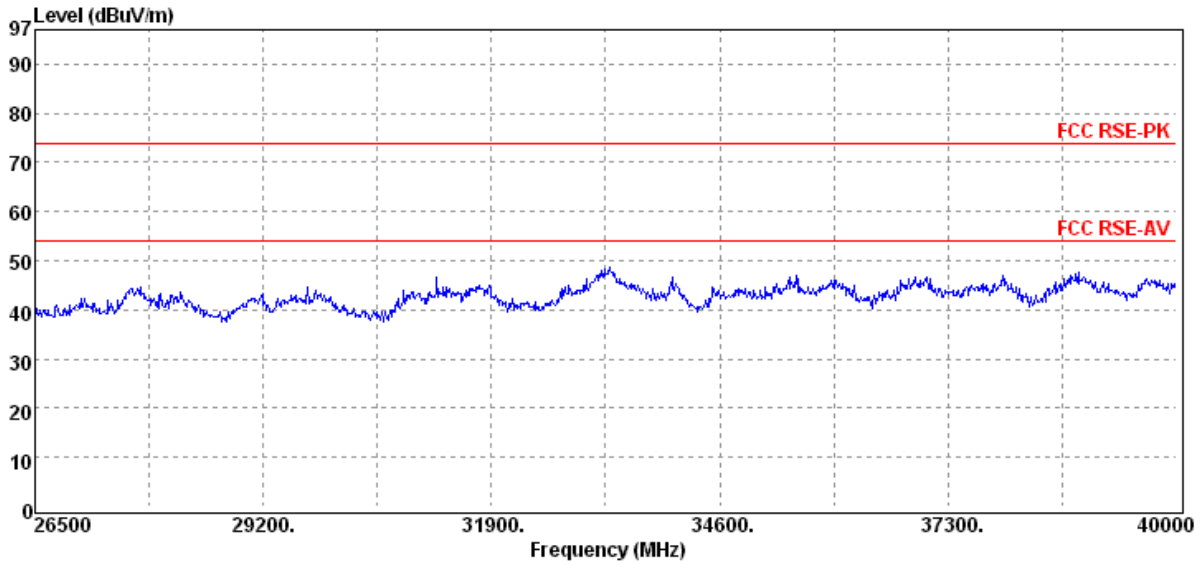
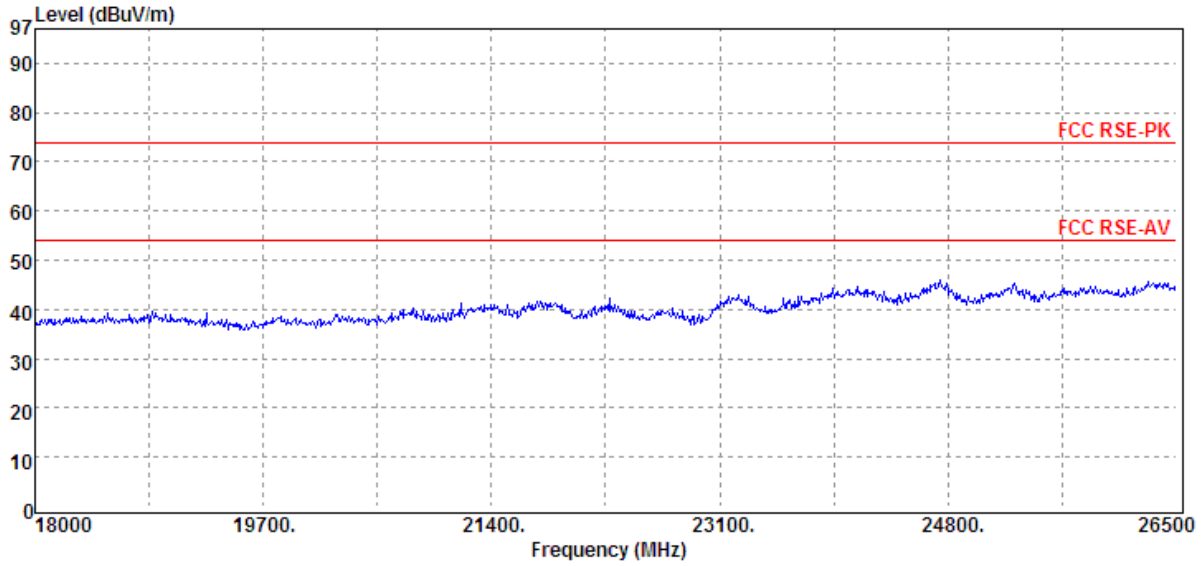
Operation Band	:802.11 a	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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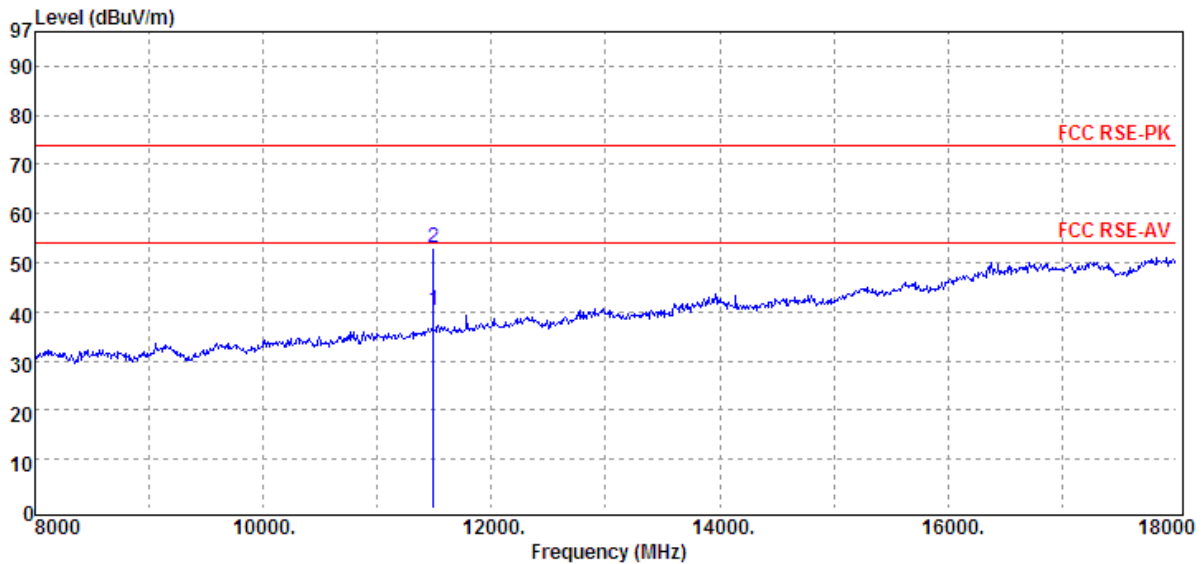
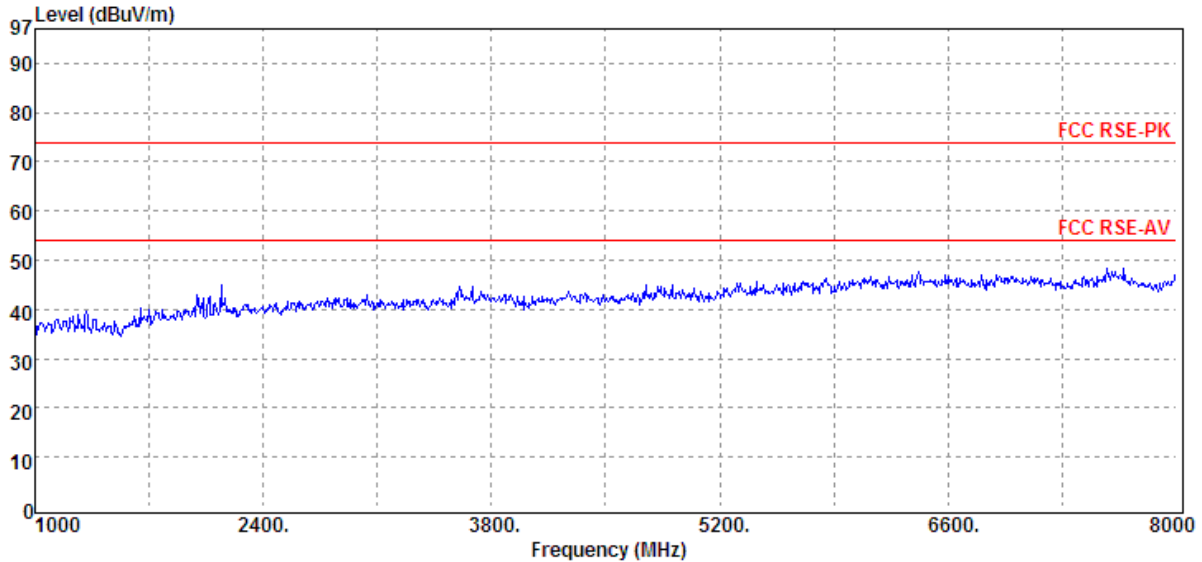


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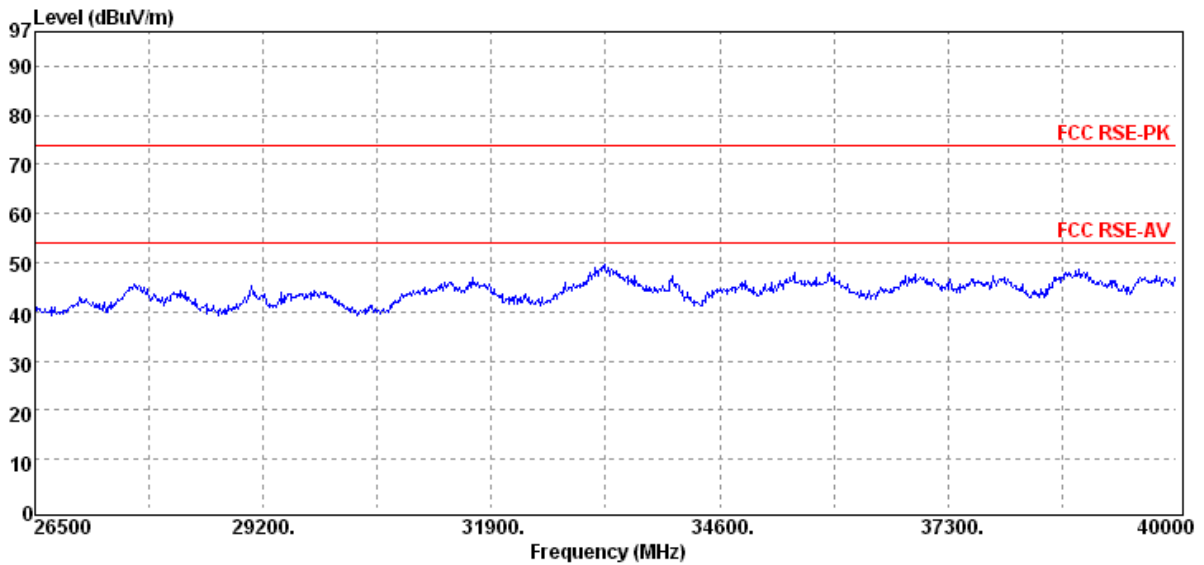
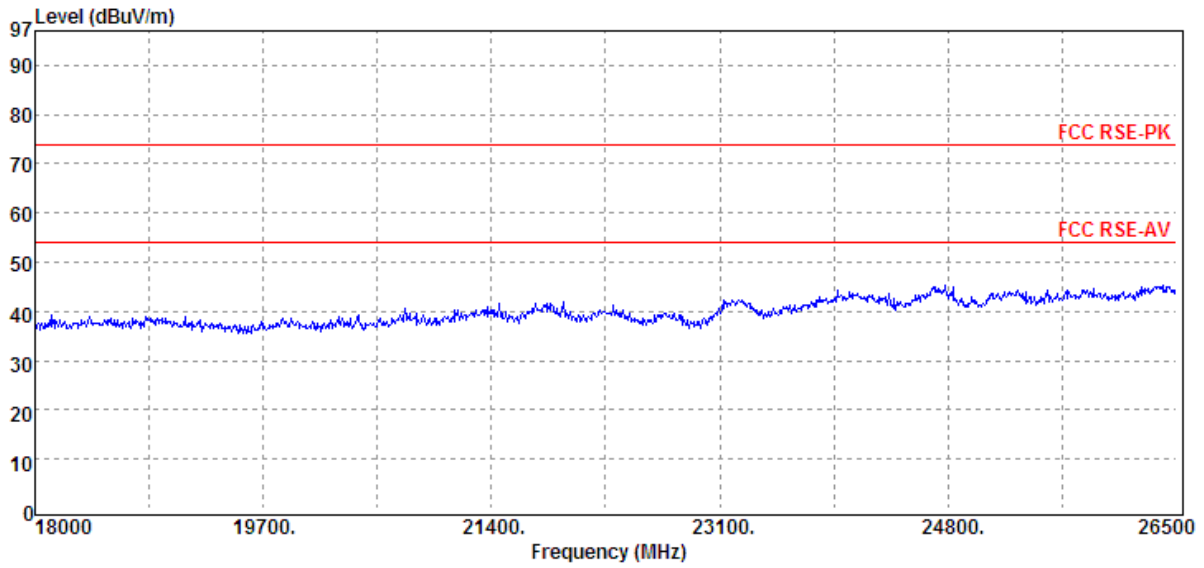
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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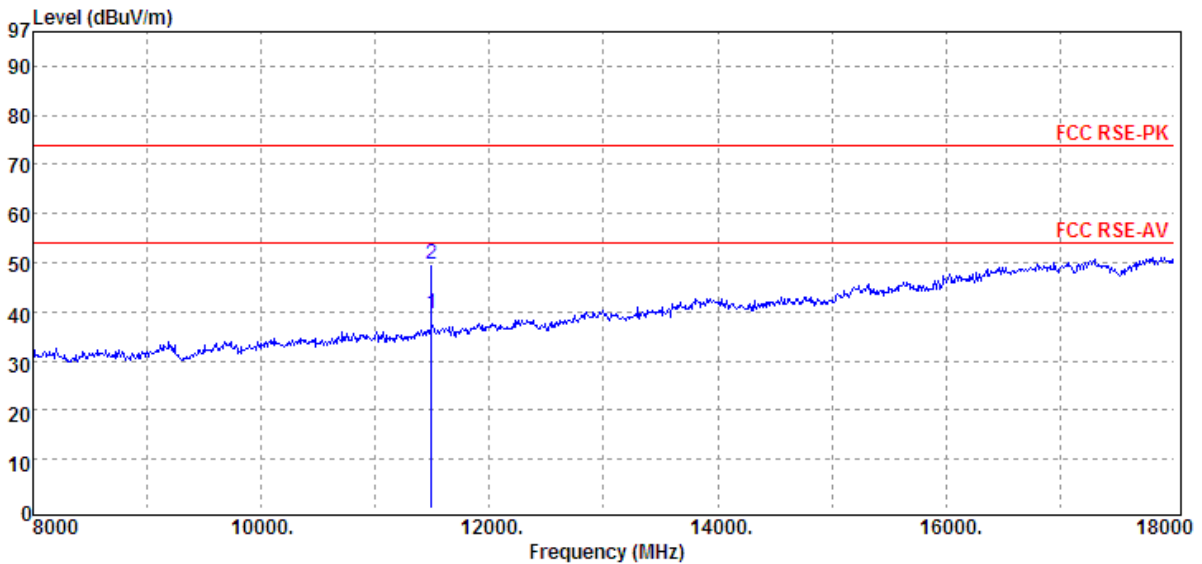
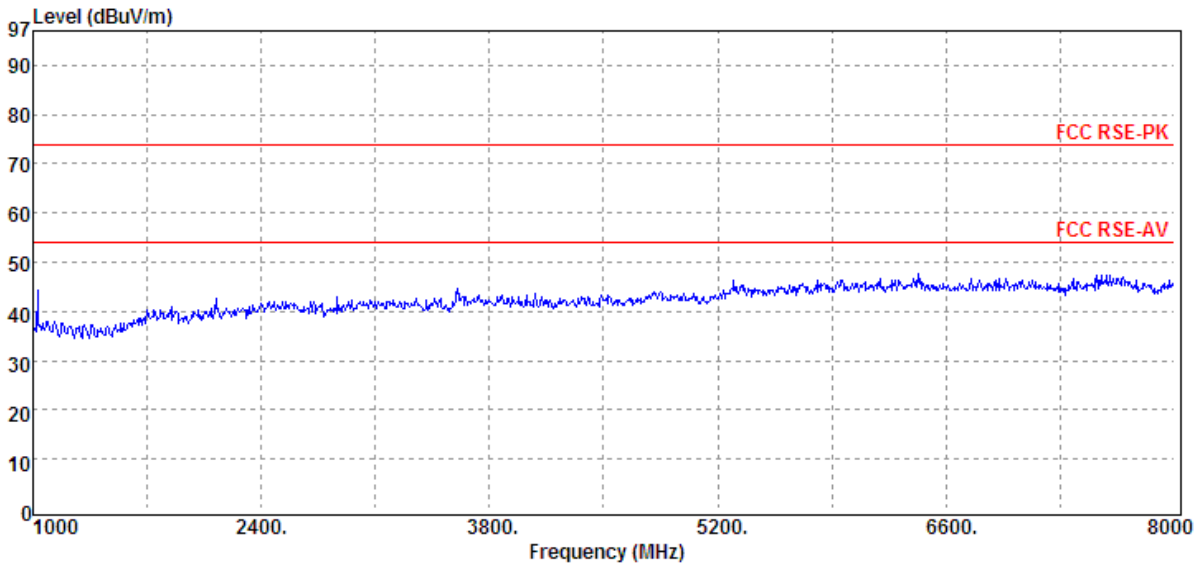


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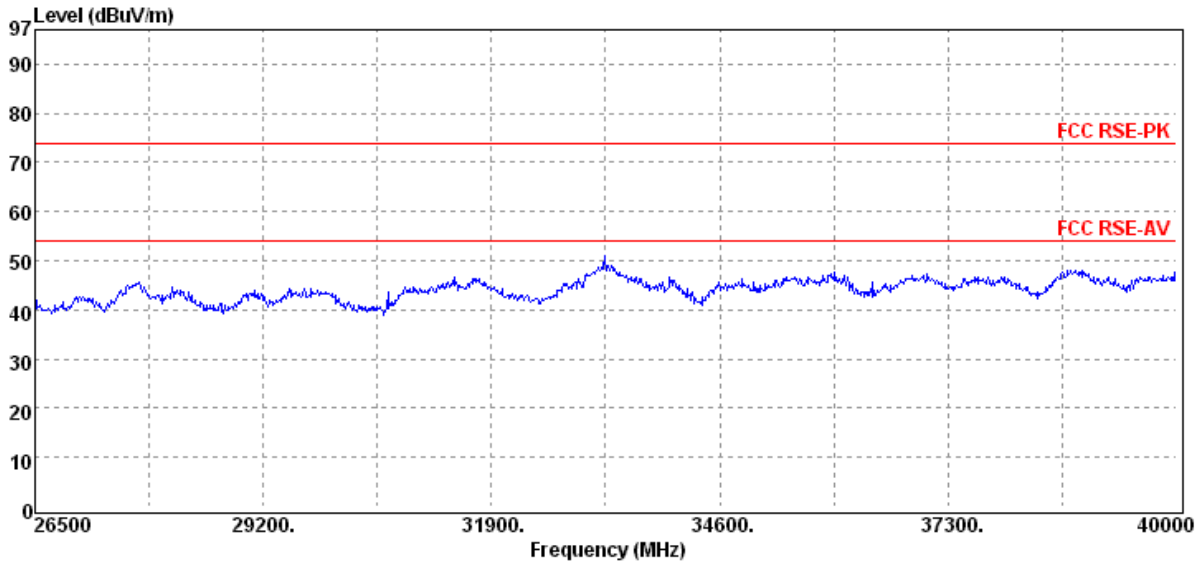
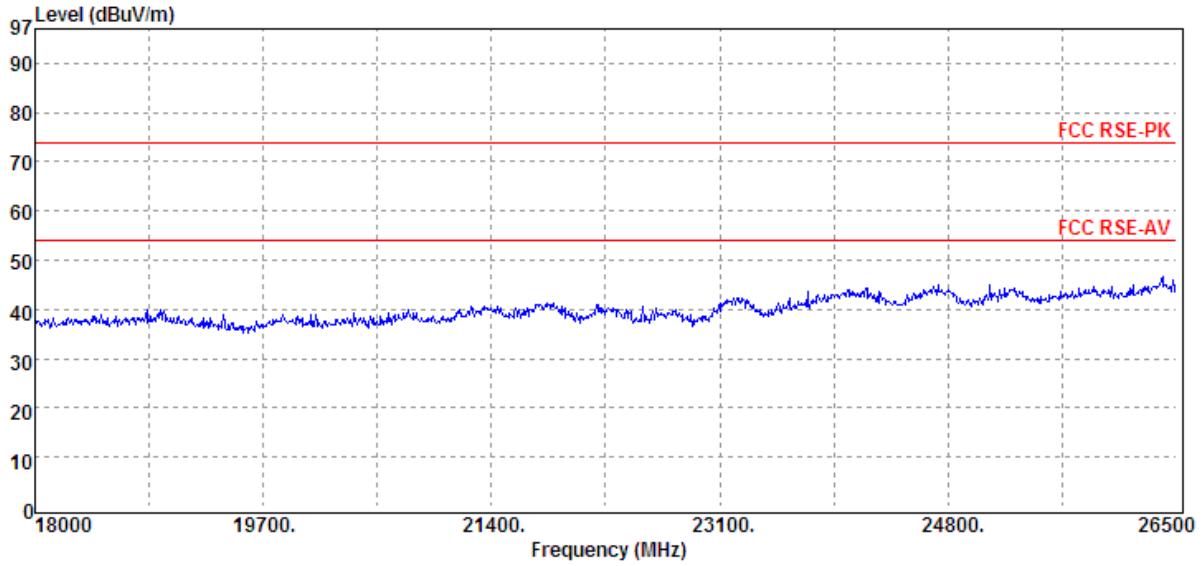
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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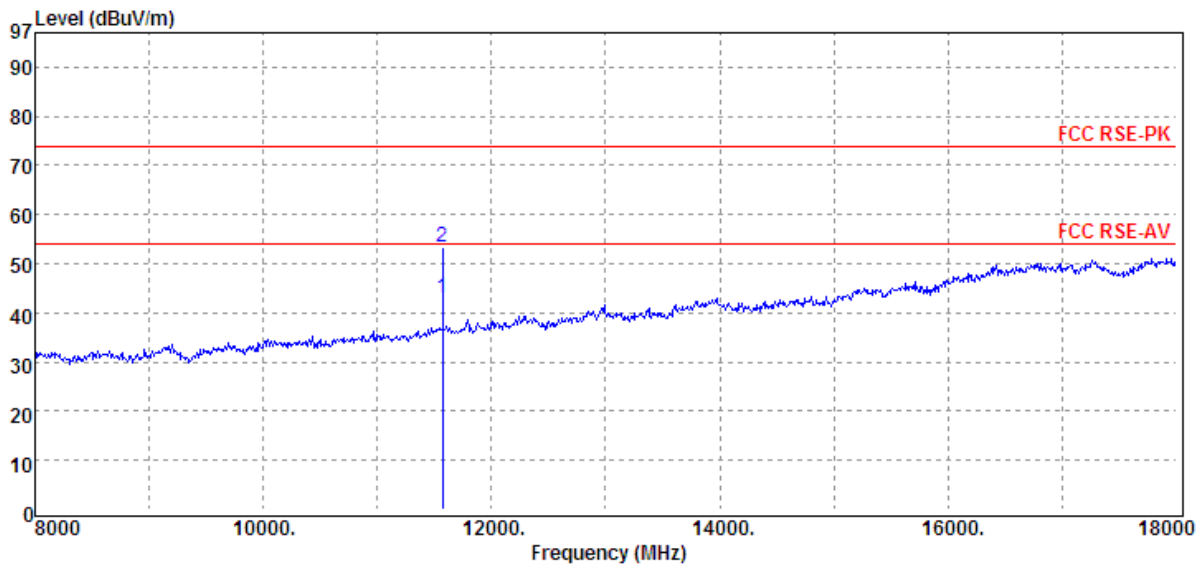
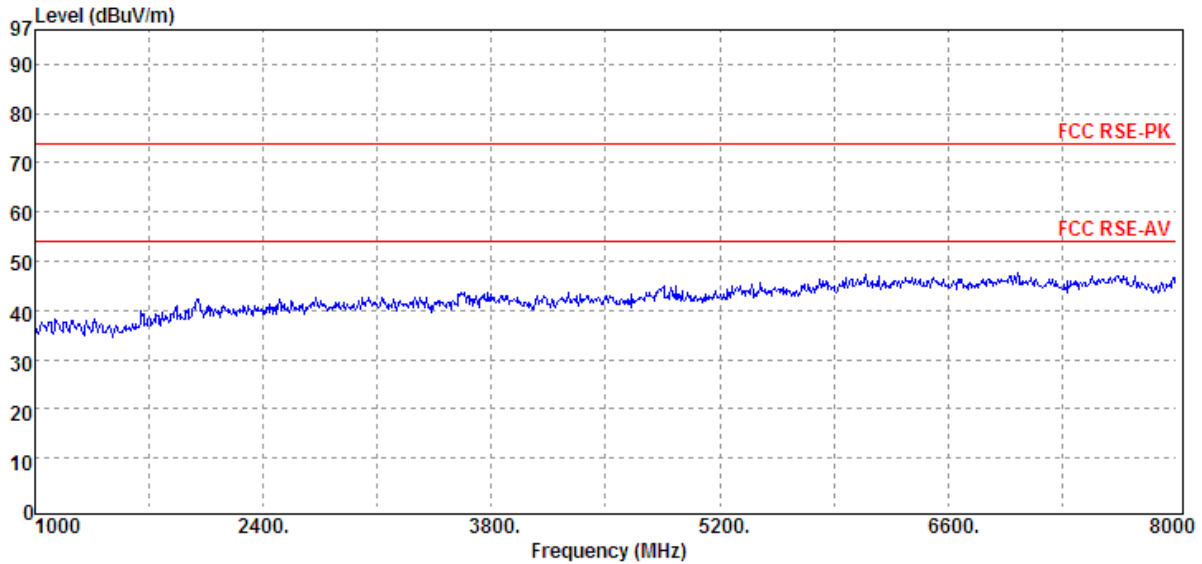
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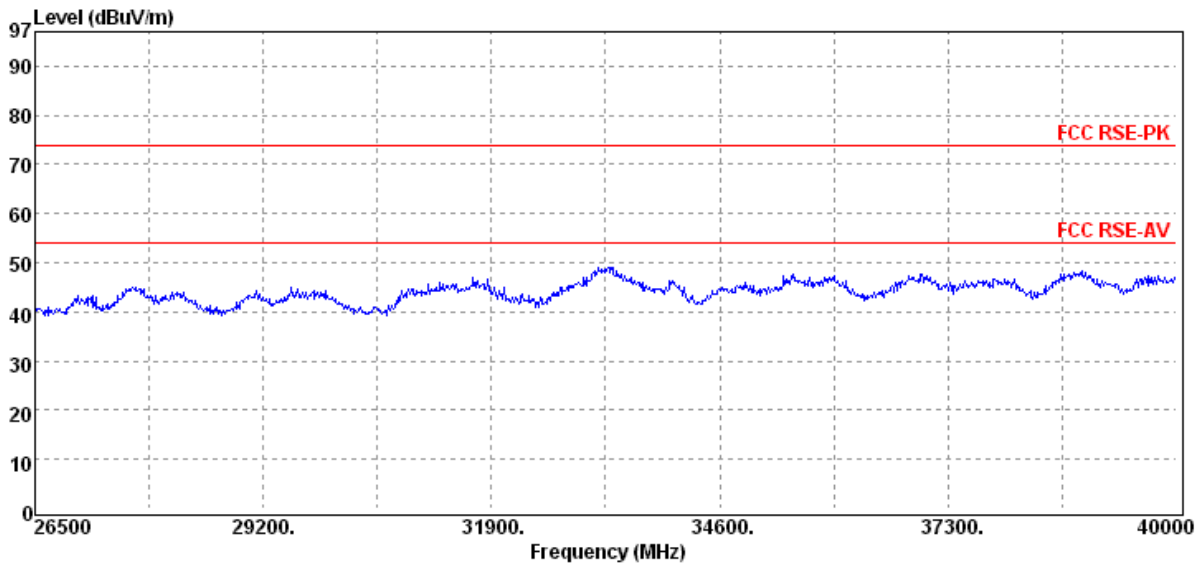
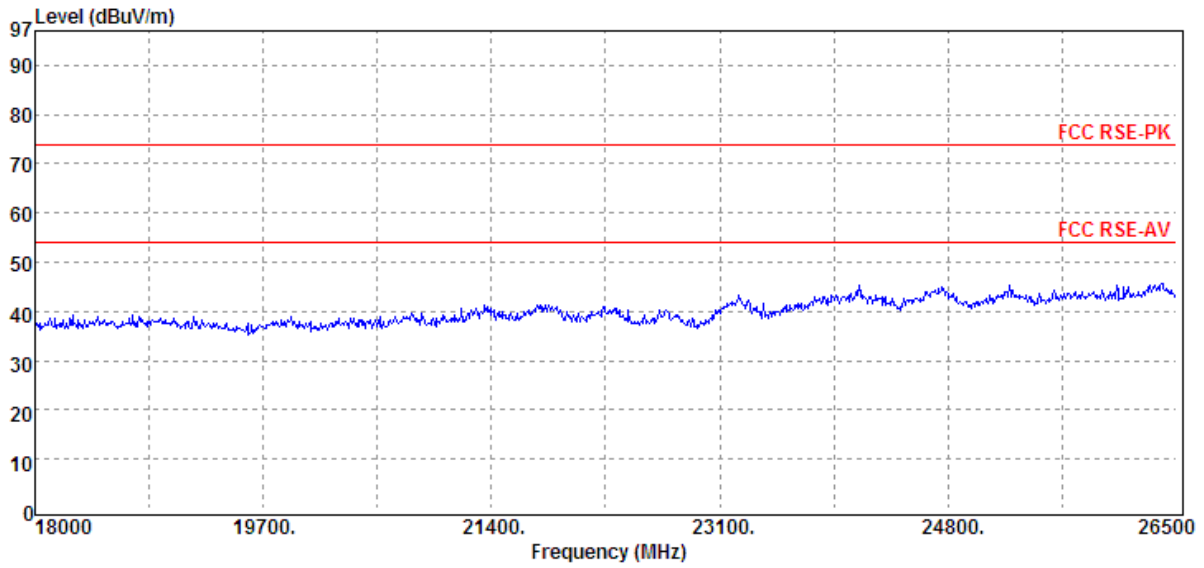
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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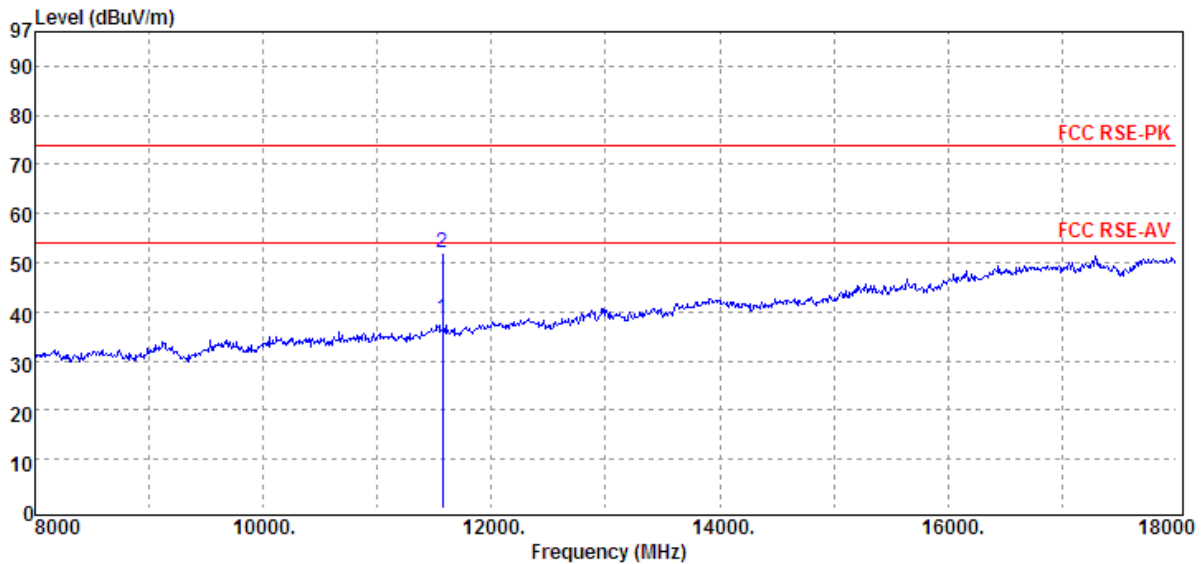
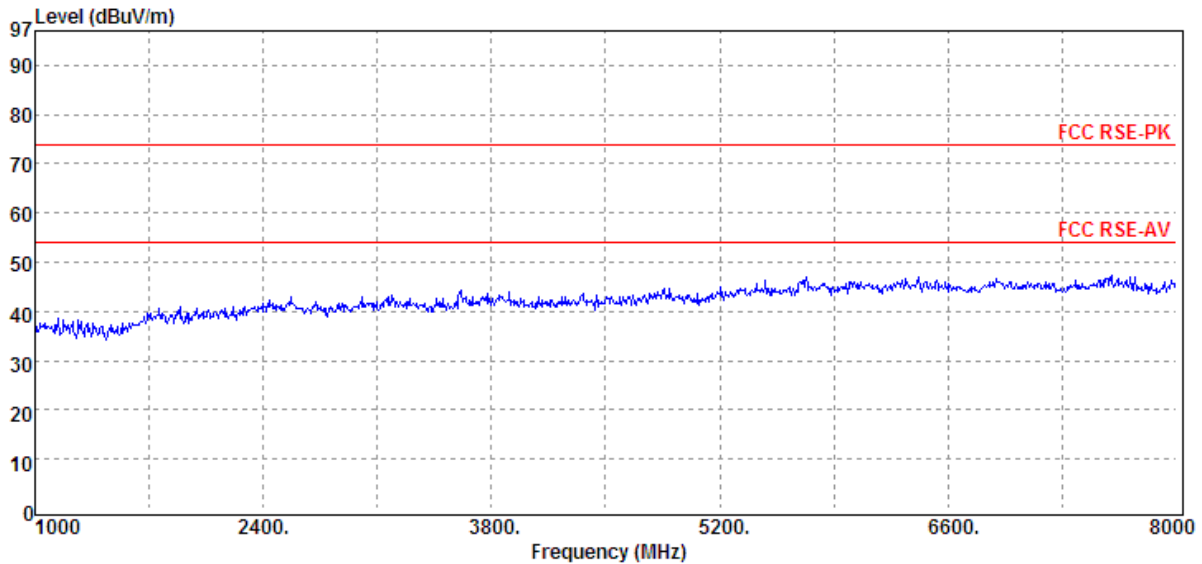


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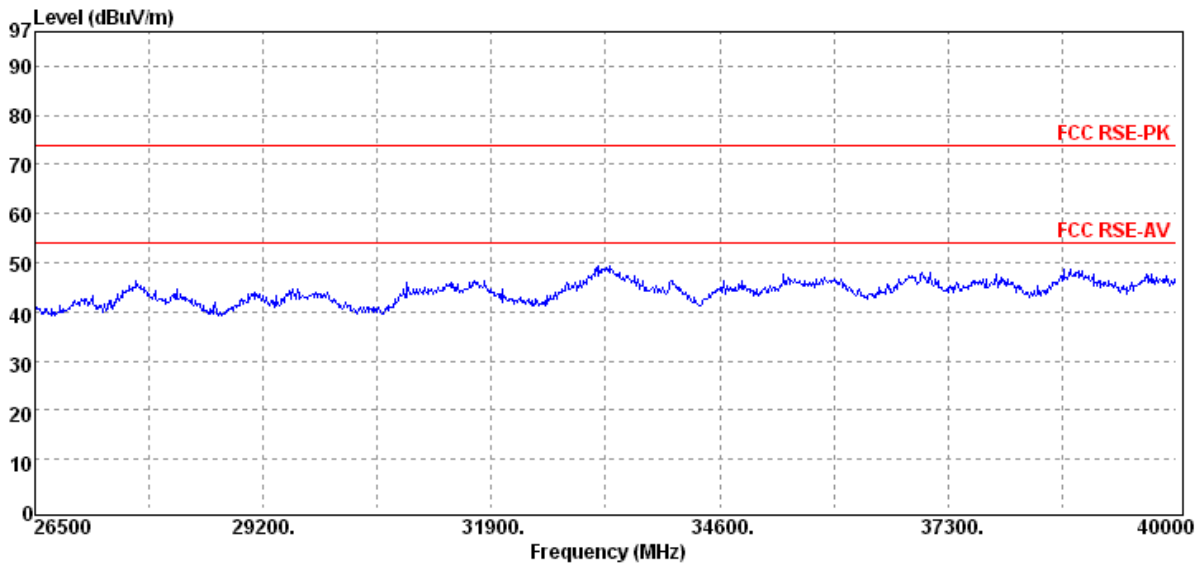
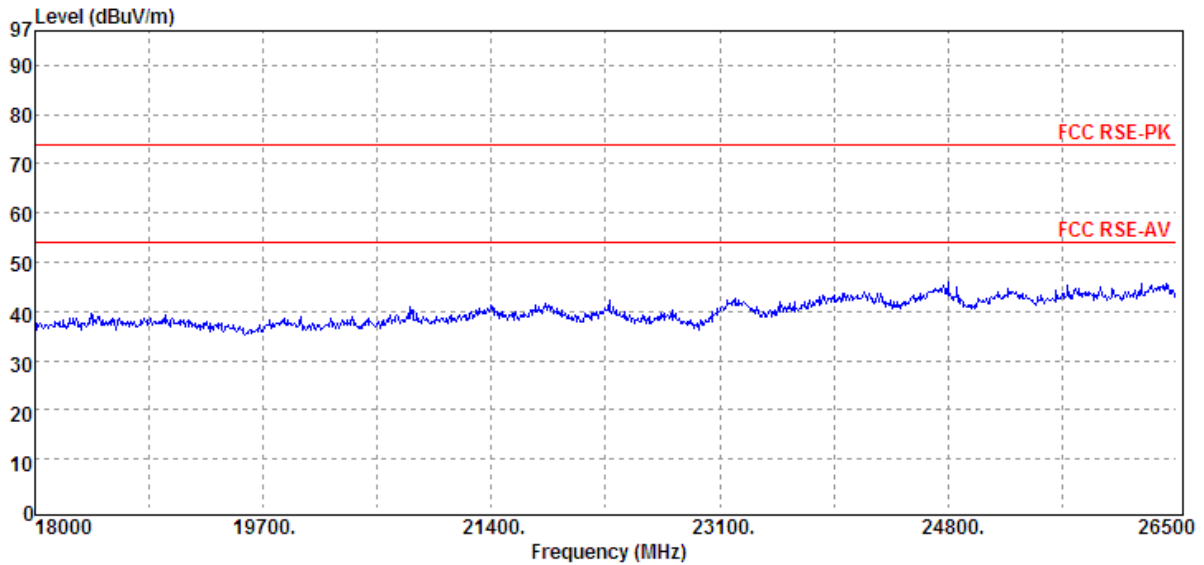
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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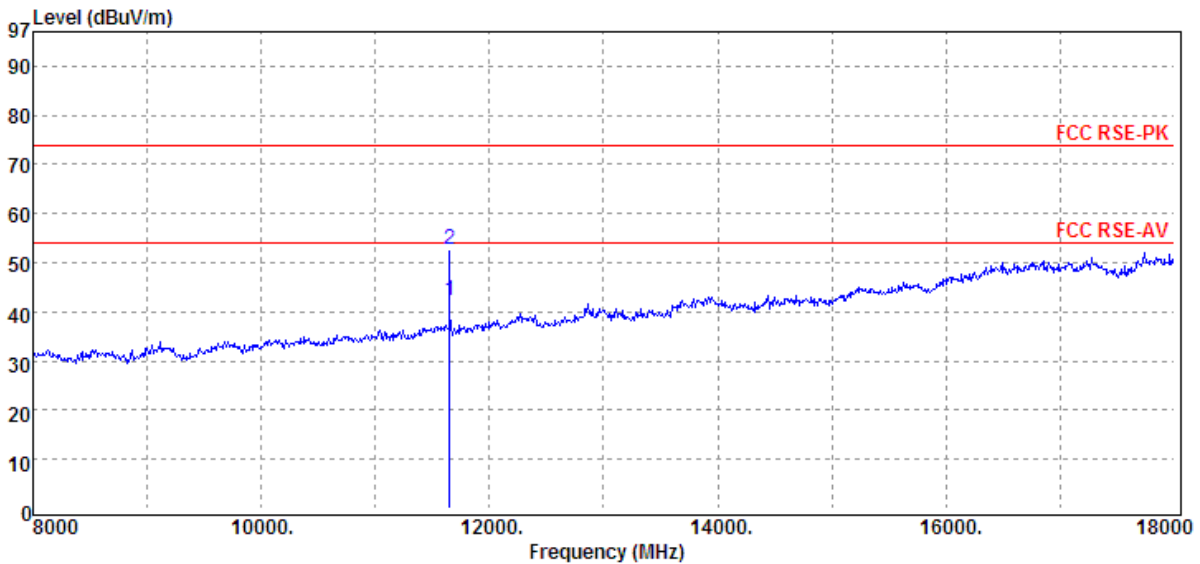
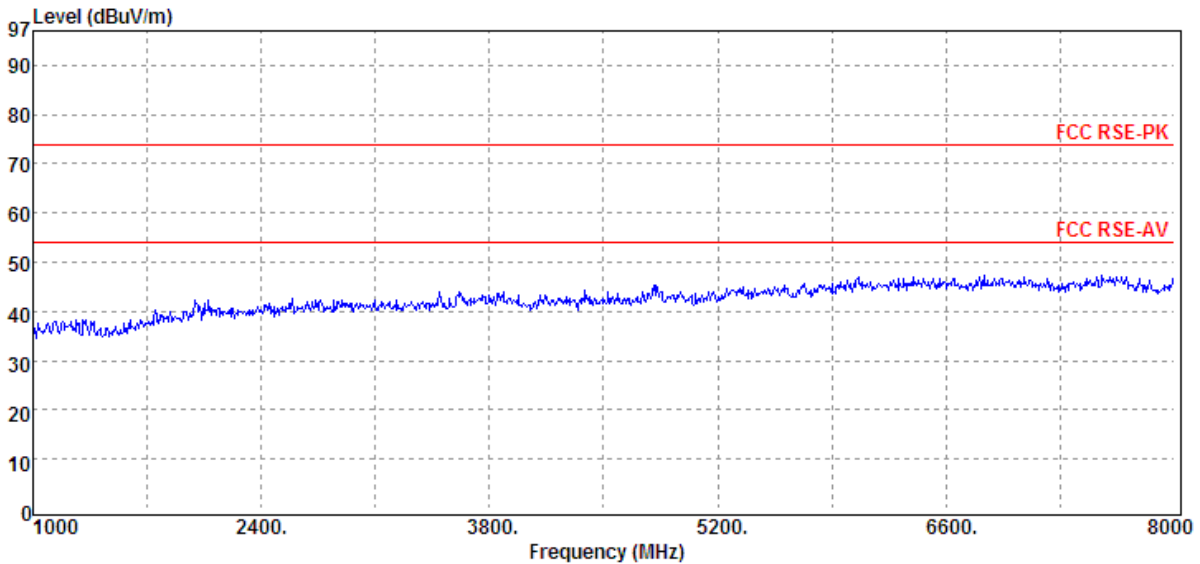


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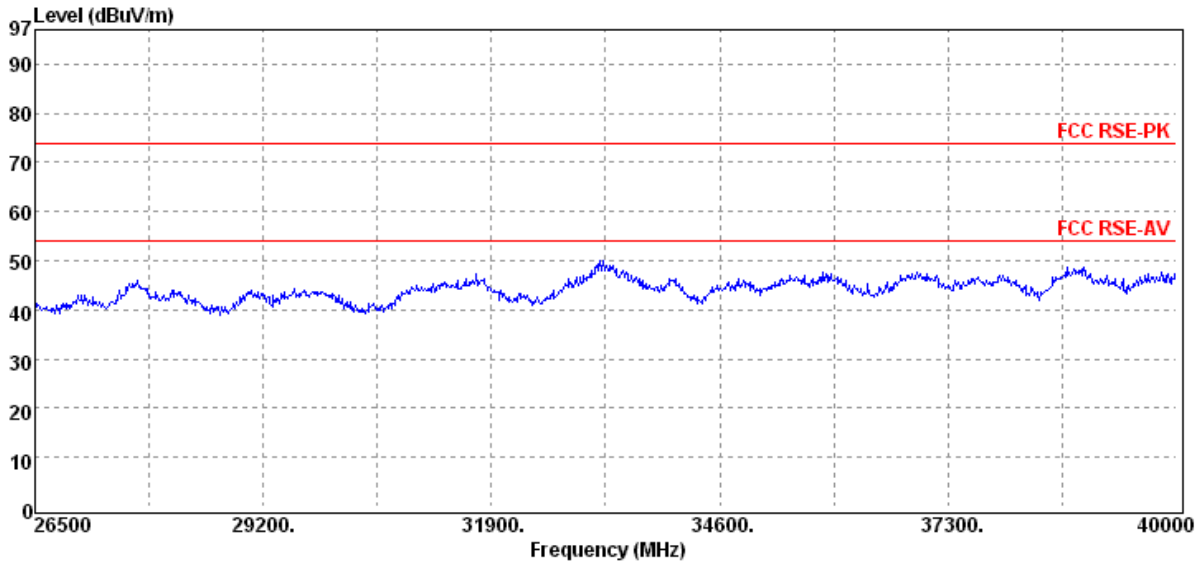
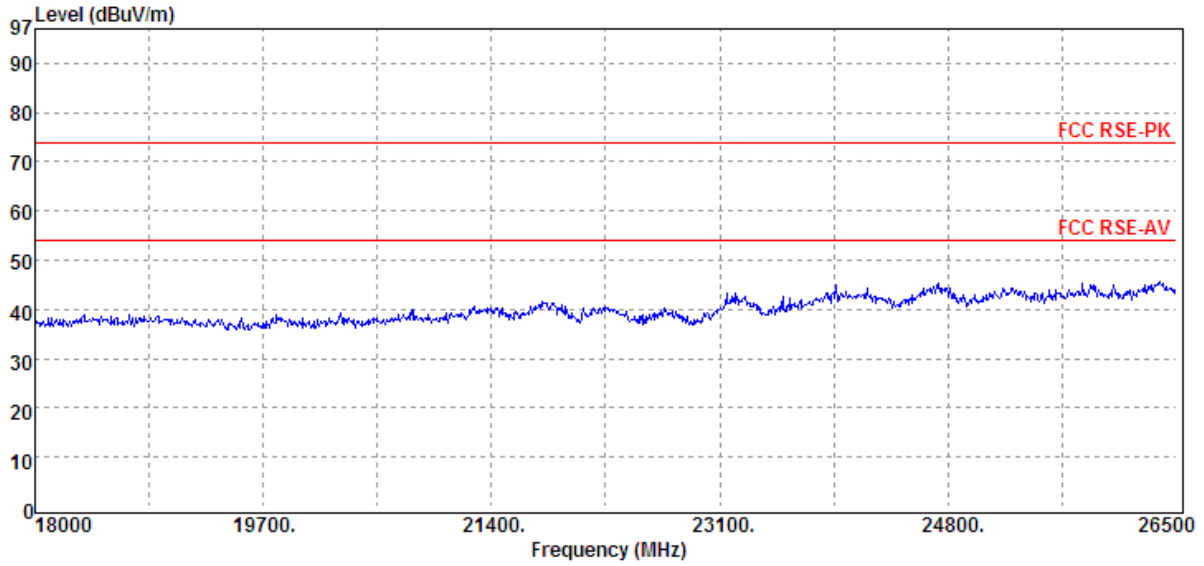
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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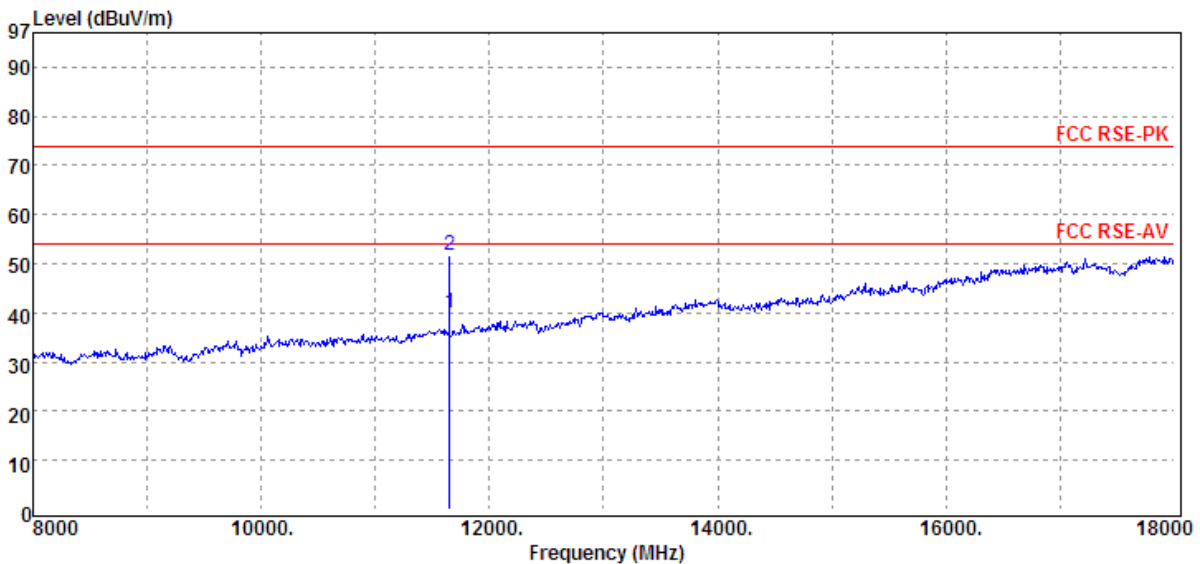
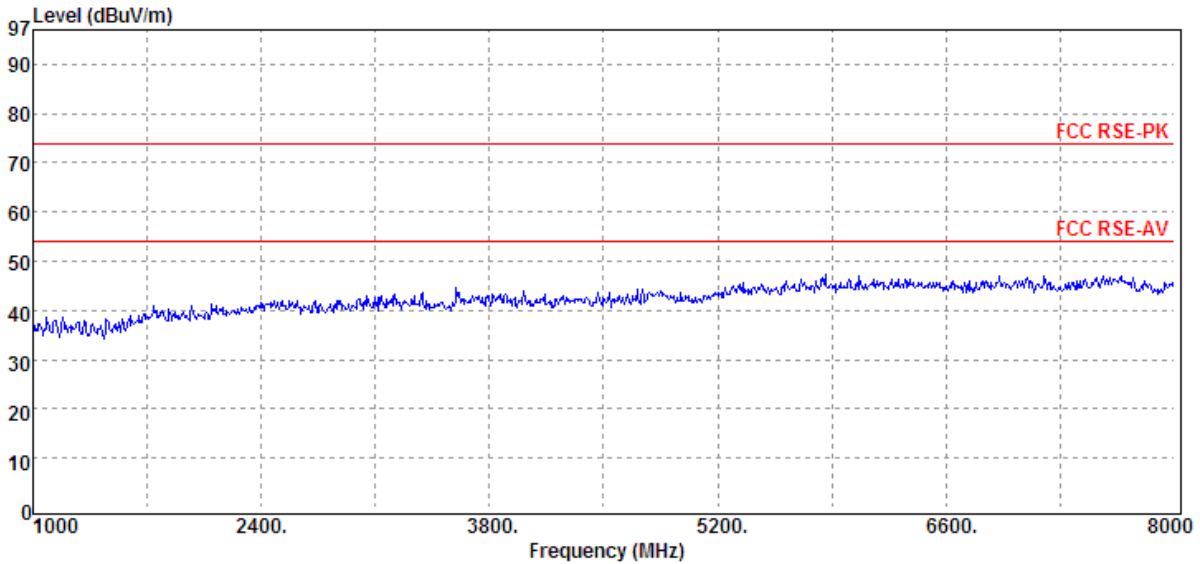


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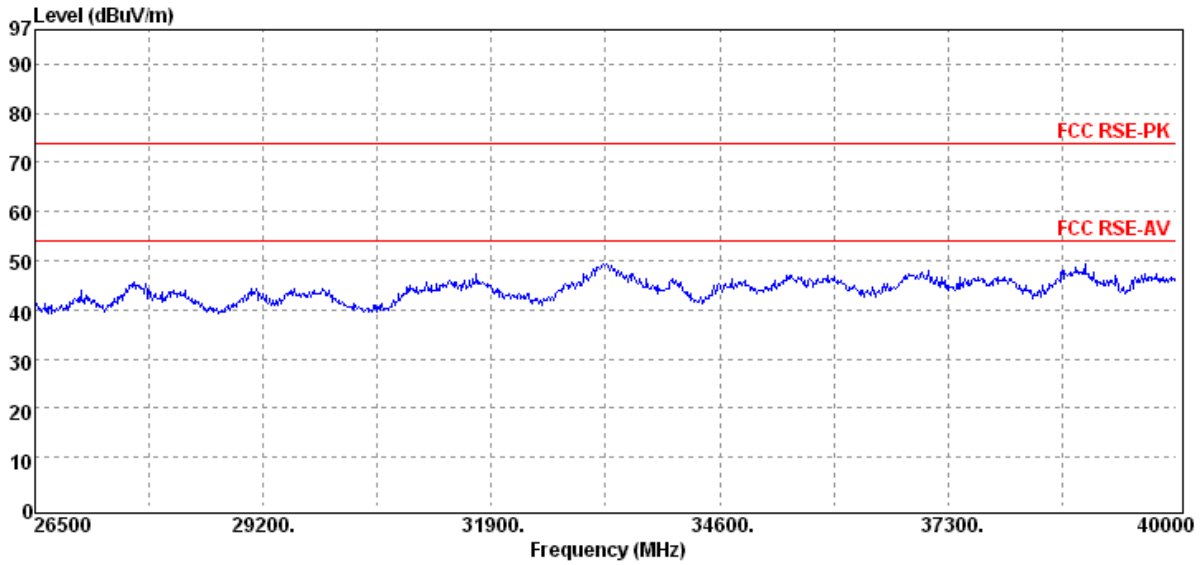
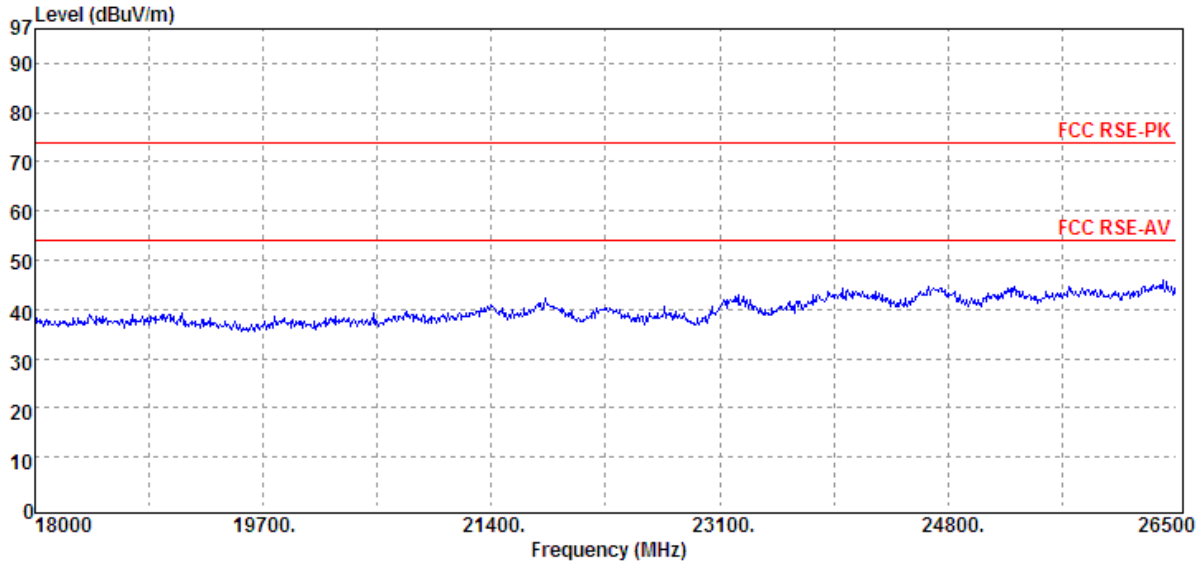
Operation Band	:802.11 n20M	Test Date	:2013-05-01
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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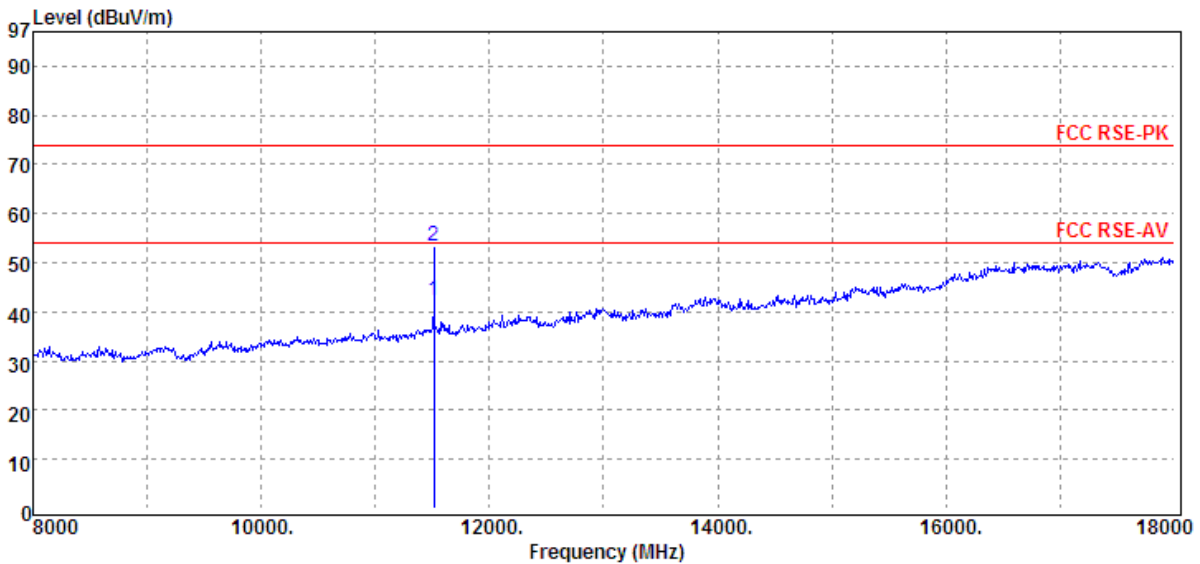
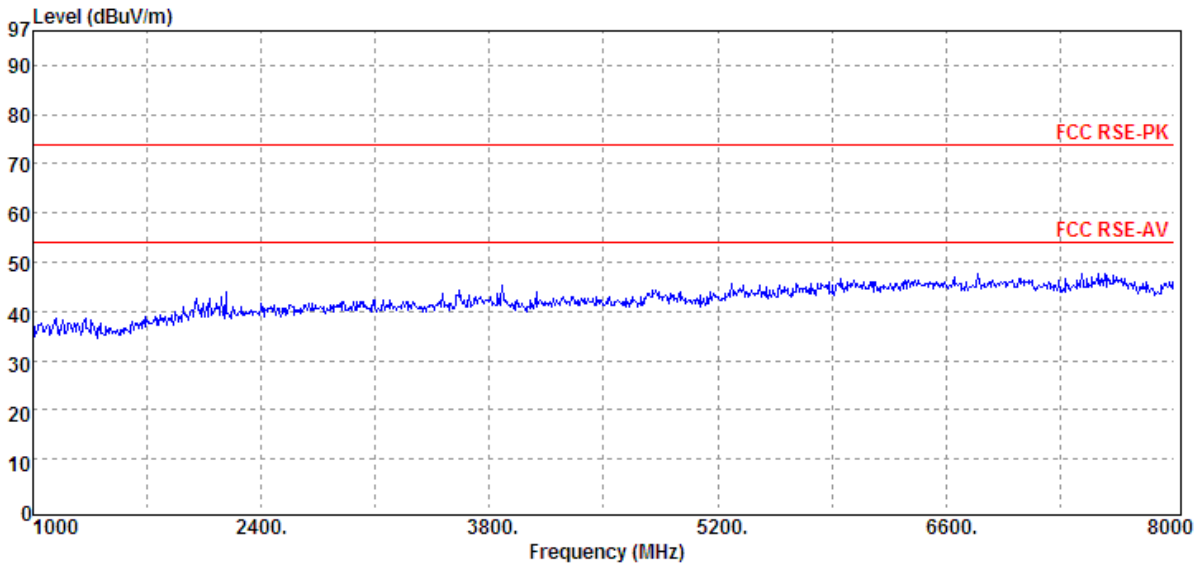
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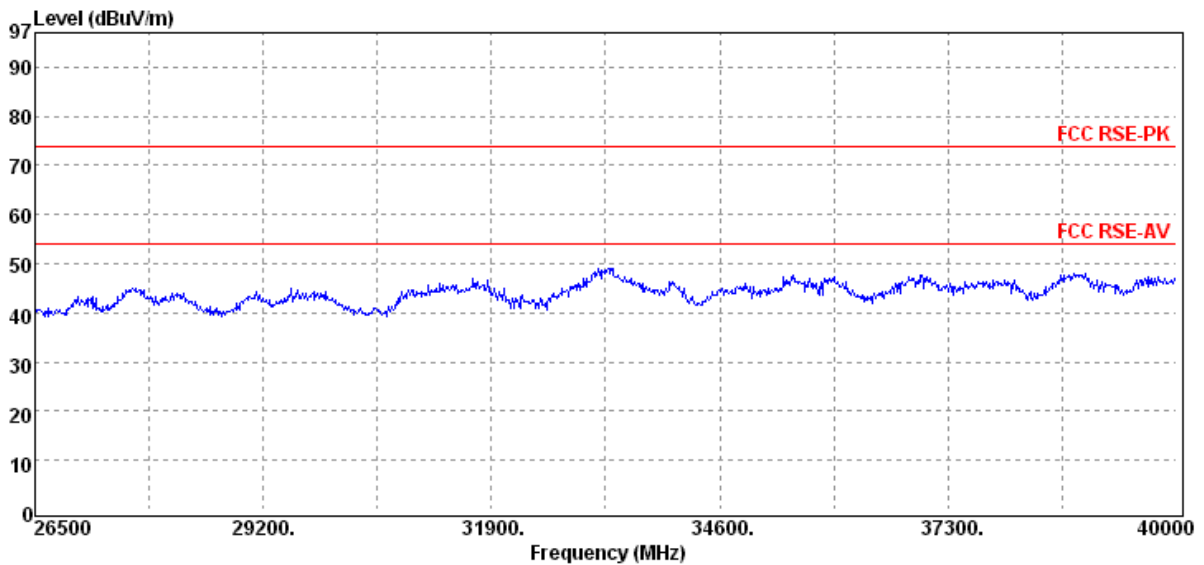
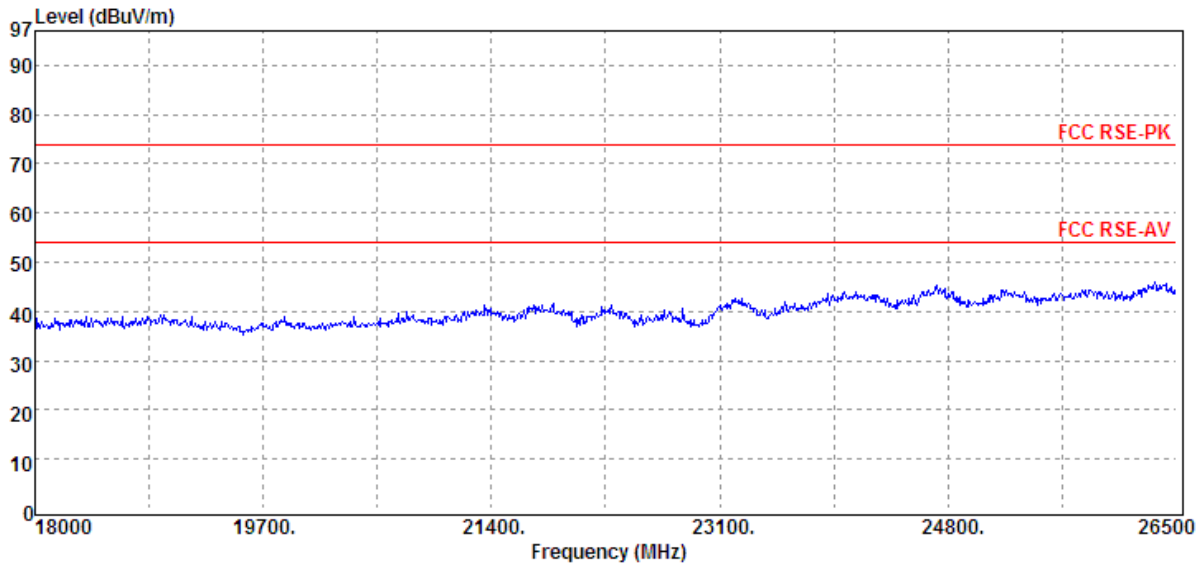
Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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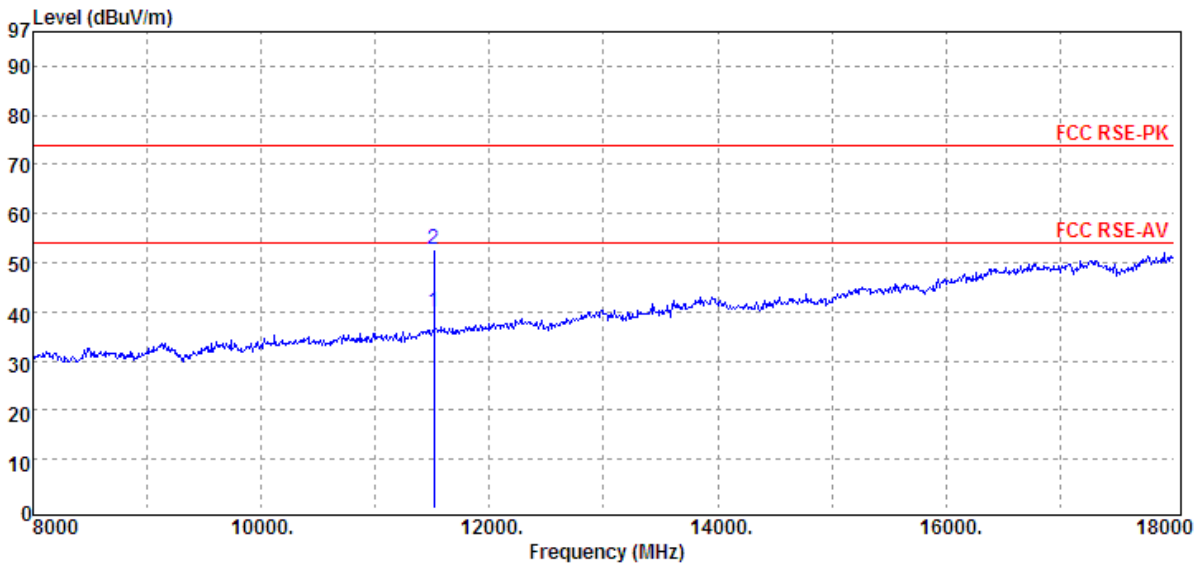
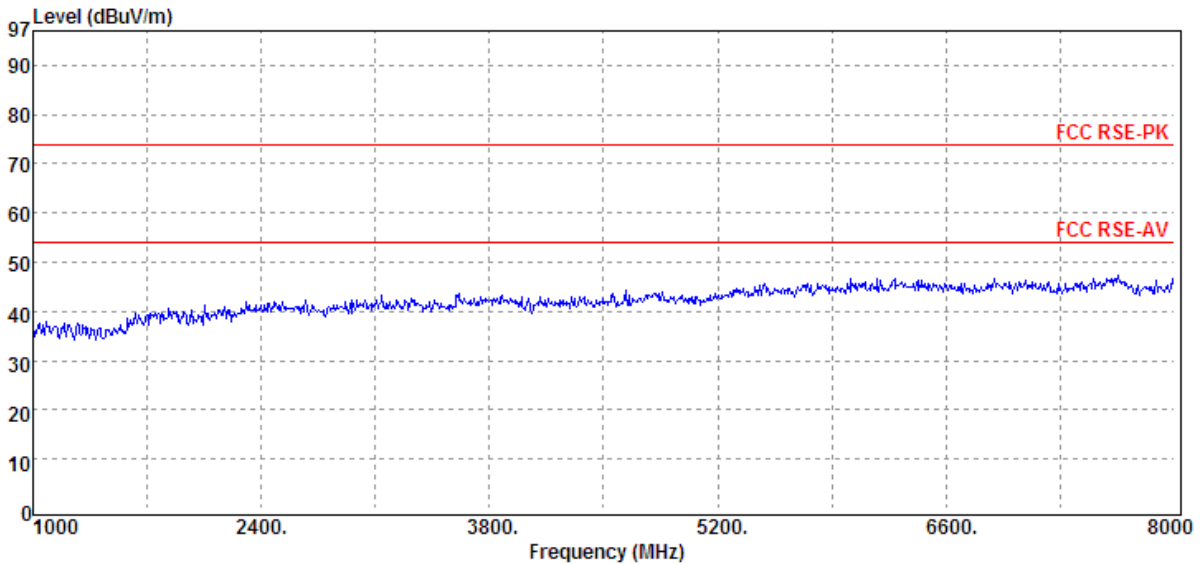


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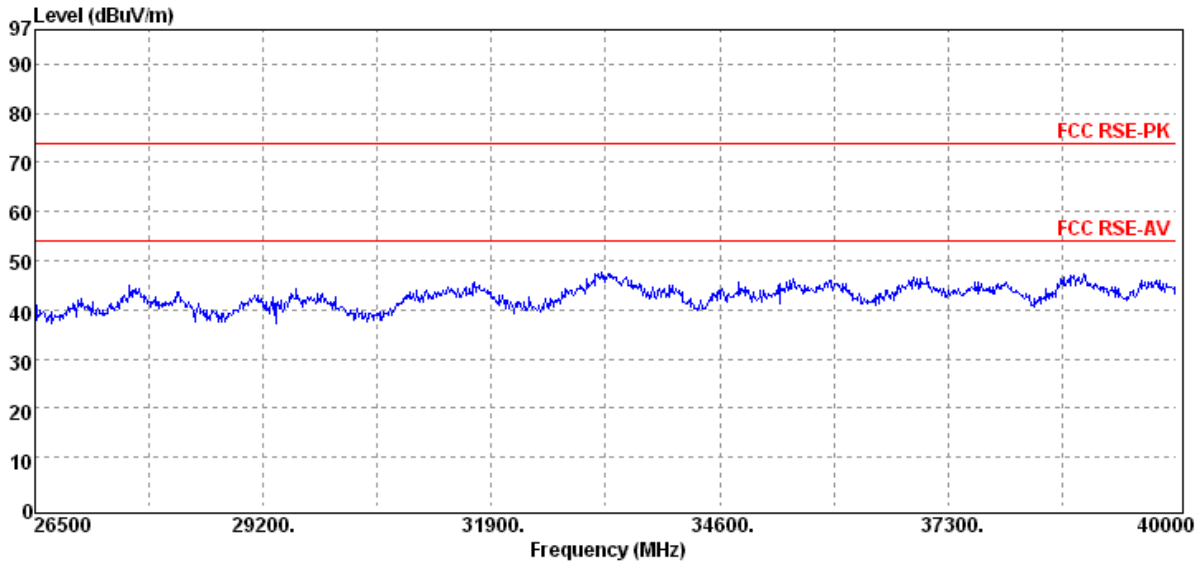
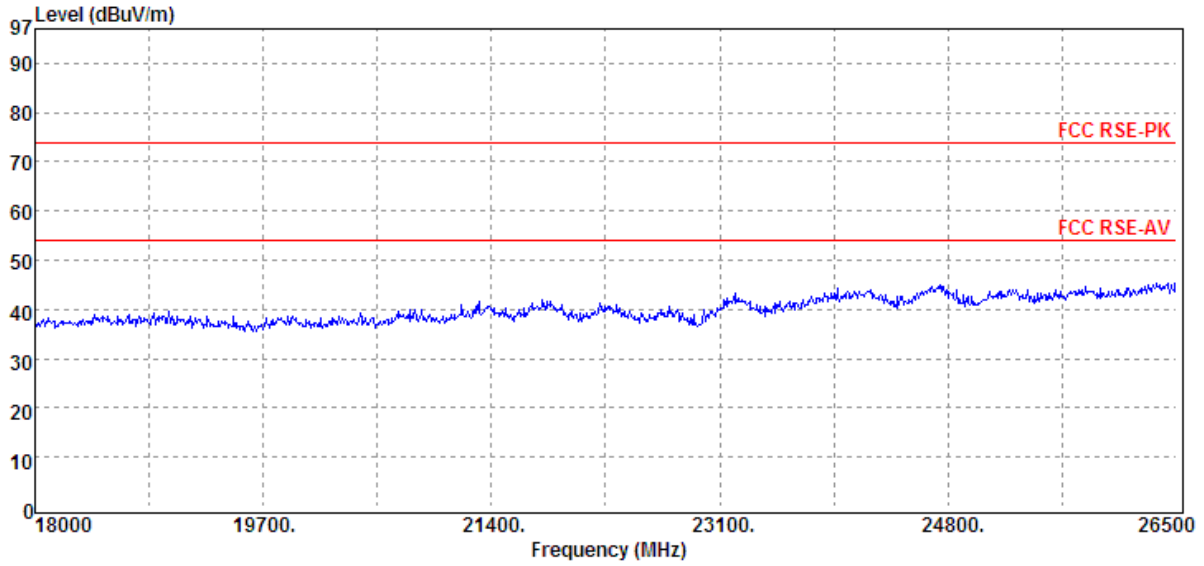
Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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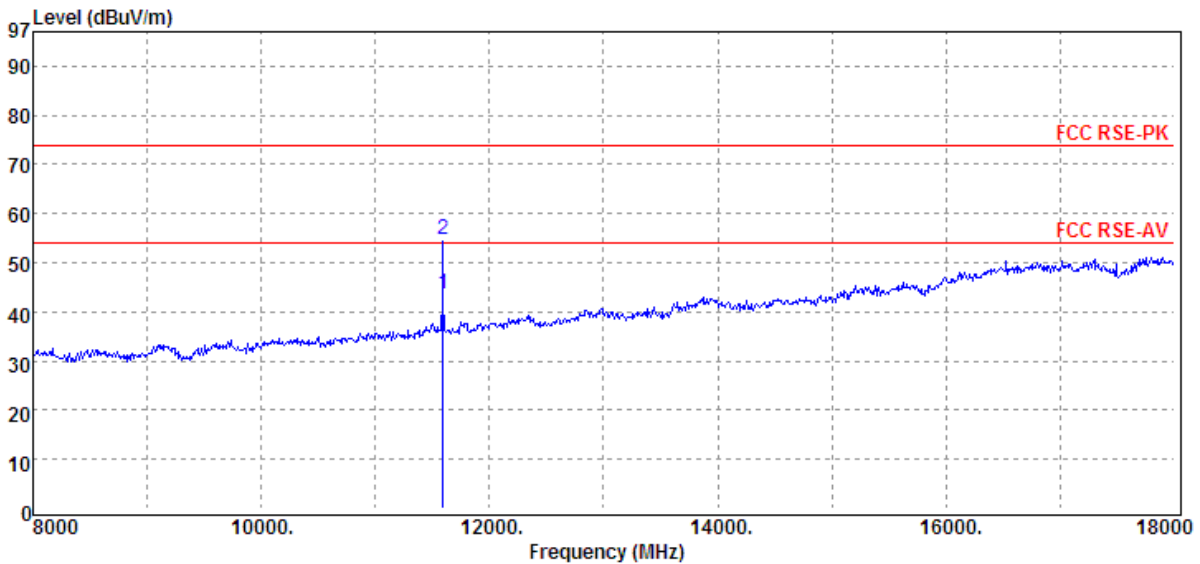
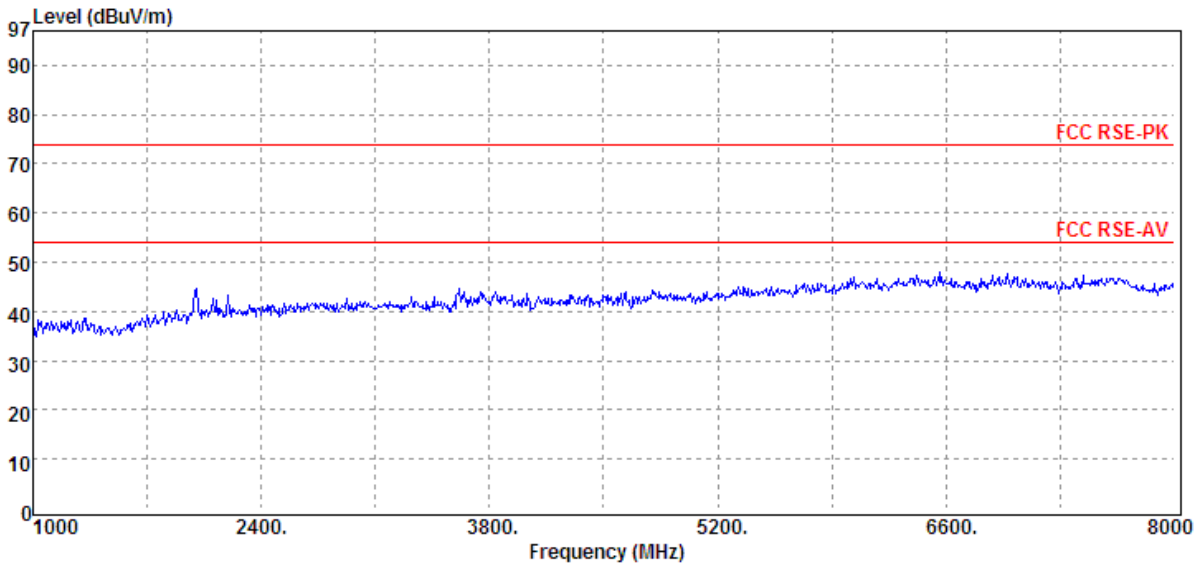


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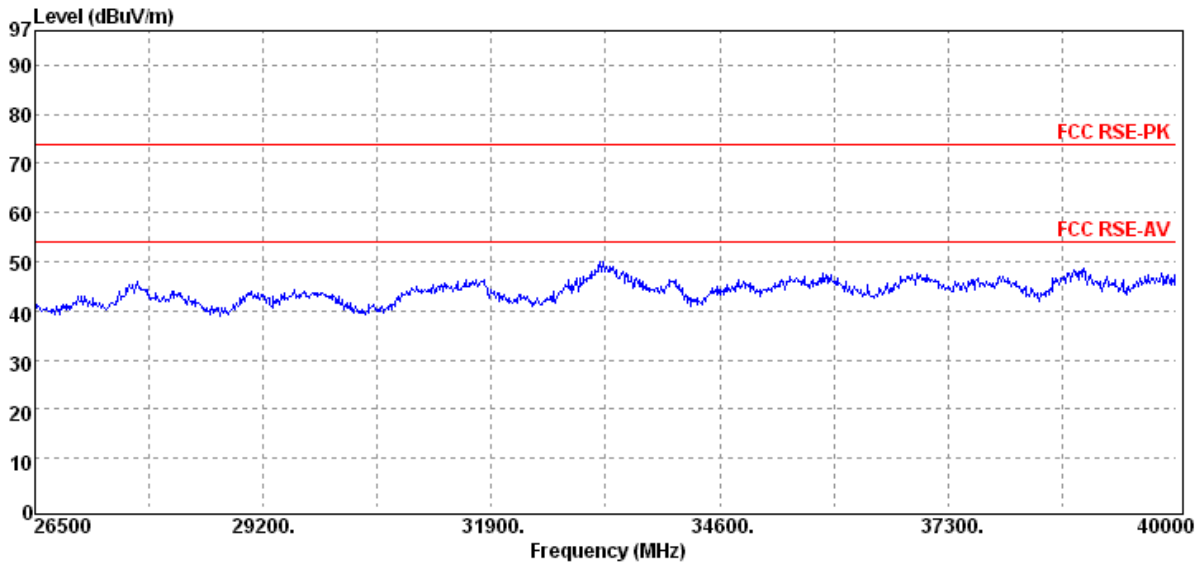
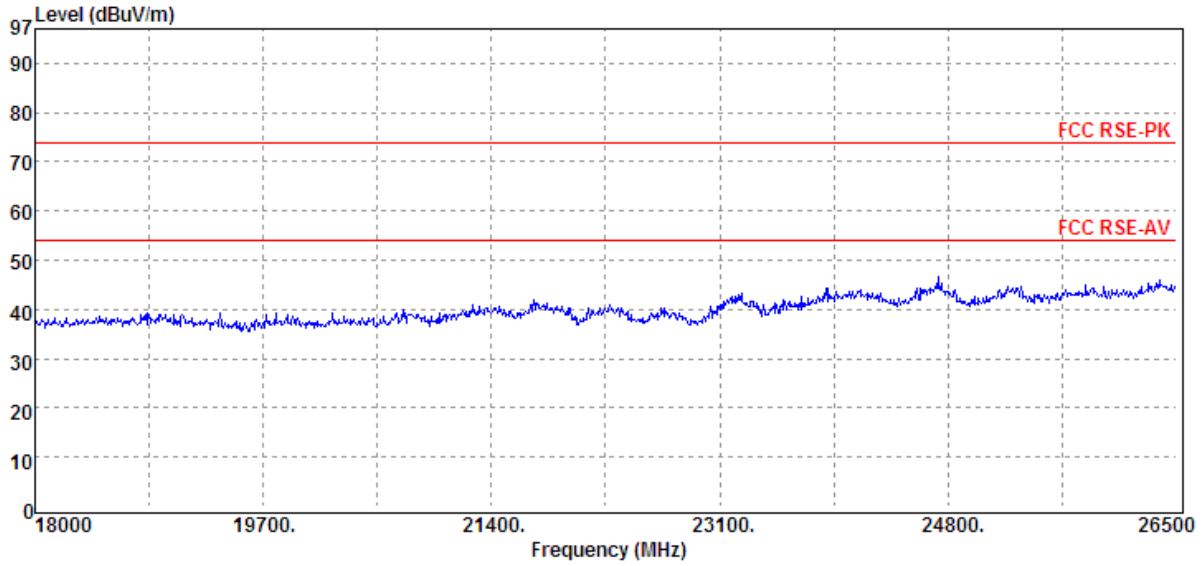
Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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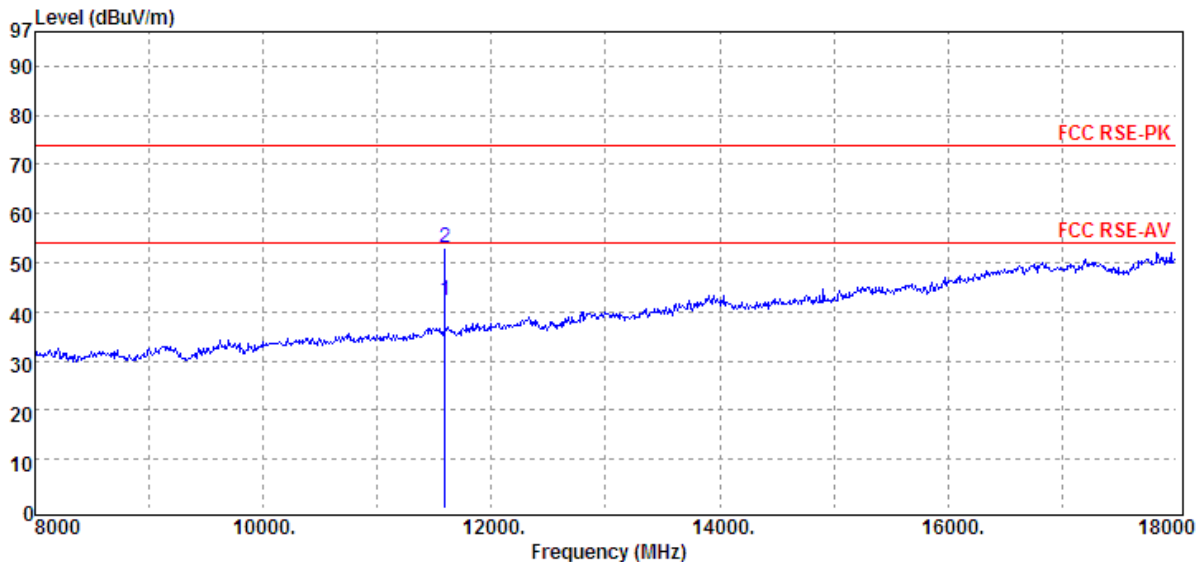
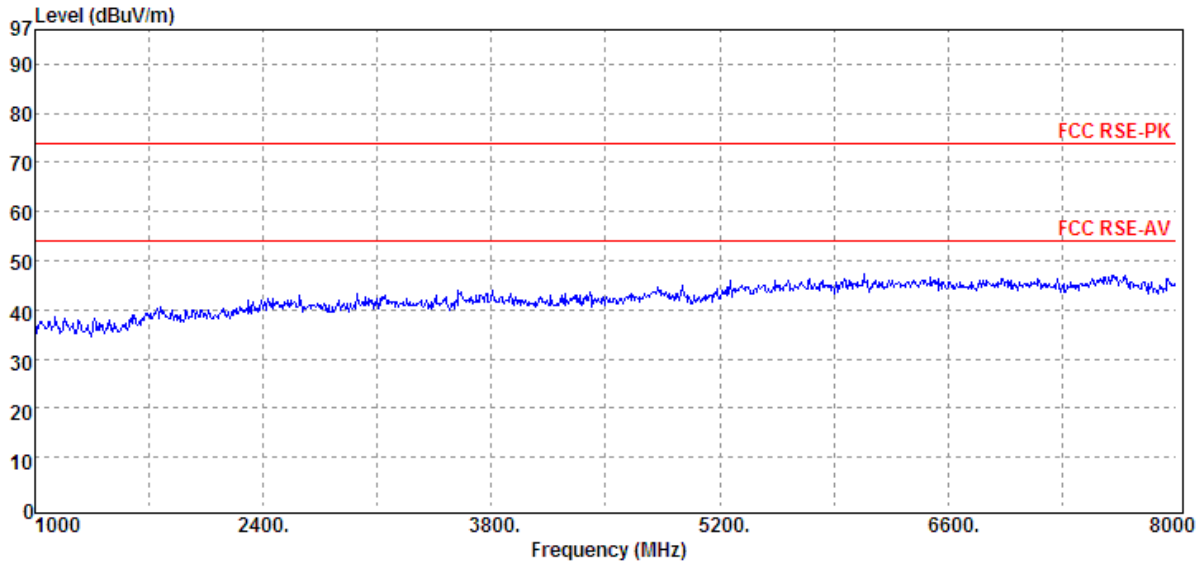


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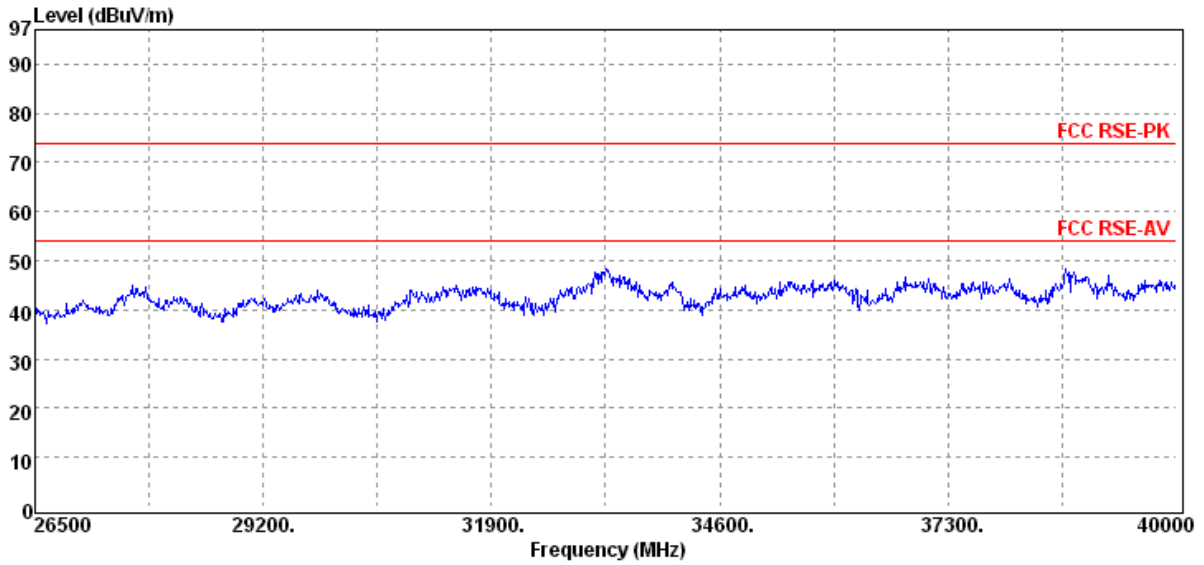
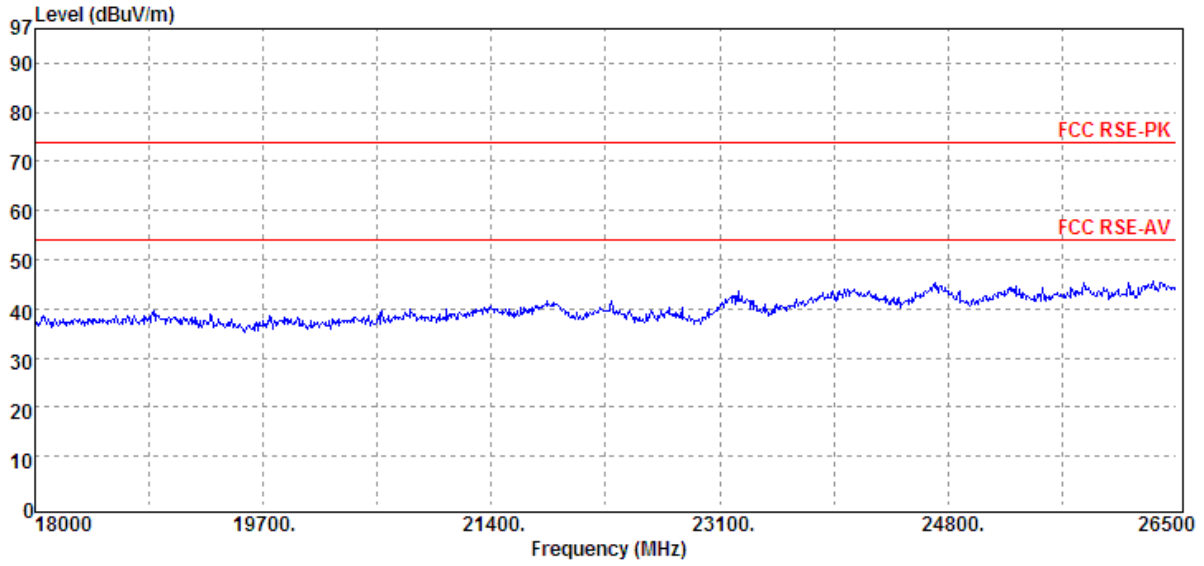
Operation Band	:802.11 n40M	Test Date	:2013-05-01
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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~ End of Report ~

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