FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

AP Router

Model / Trade Name:

Model	Brand Name	Model	Brand Name
WCB1105H10DX	LanReady	AC-GTT-11N-O	GTT
DAP-3311	D-Link	TEW-739APBO	Trendnet
DT-300N	Cerio	WLO-12410N	Pheenet
AOP8012	Airlink101	OW-310N2	Cerio
DAP-3310	D-Link	CAP-2410D	Wiborne
WLO-12410NP	Pheenet	AMS-D24	ALCON
CAP-2410P	Wiborne	WV-110CPE	Wavecore
TEW-734APB	Trendnet	AOP8010	Airlink101
AMS-P24	ALCON	WCB1110H10X	LanReady
WV110BR	Wavecore	WLO-12400N	Pheenet
AOP8016	Airlink101	OW-300N2	Cerio
WCB1110H10DX	Lanready	CAP-2410E	Wiborne
WCB1100H10DX	LanReady	AMS-D24-N	ALCON
DAP-3312	D-Link	WV-100CPE	Wavecore
AC-GTT-11N-D	GTT	AOP8000	Airlink101
TEW-738APBO	Trendnet	WCB1100H10X	LanReady

Issued to

LanReady Technologies Inc.
3F, No.116, Sinhu 2nd Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

Issued by

Compliance Certification Services Inc.
No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)
http://www.ccsrf.com
service@ccsrf.com
Issued Date: May 13, 2013

Testing Laboratory
1309

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		May 13, 2013		Initial Issue	ALL	Angel Cheng

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1. TEST RESULT CERTIFICATION

Applicant: LanReady Technologies Inc.
3F, No.116, Sinhu 2nd Rd., Neihu District,
Taipei City 114, Taiwan (R.O.C.)

Equipment Under Test: AP Router

Model Number / Trade Name:

Model	Brand Name	Model	Brand Name
WCB1105H10DX	LanReady	AC-GTT-11N-O	GTT
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WCB1110H10DX	Lanready	CAP-2410E	Wiborne
WCB1100H10DX	LanReady	AMS-D24-N	ALCON
DAP-3312	D-Link	WV-100CPE	Wavecore
AC-GTT-11N-D	GTT	AOP8000	Airlink101
TEW-738APBO	Trendnet	WCB1100H10X	LanReady

Date of Test: April 22, 2013

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 15 Subpart C (10 – 1 – 12 Edition)	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

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

Approved by:

Miller Lee
Section Manager
Compliance Certification Services Inc.

Reviewed by:

Gina Lo
Section Manager
Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	AP Router
Model Number / Trade Name	See table below
Received Date	March 22, 2013
Power Adapter	1. Powertron Electronics Corp. / Model: PA1024-4I/PA1024-4IB/PA1024-480IB050 I/P: 100-240V, 50-60Hz, 0.6A O/P: 48, 0.5A, 24W Max 2. UNIFIVE / Model: UEC345-4808 I/P: AC 100-240V, 50-60Hz, 1A O/P: DC 48V, 0.875A 3. LEADER ELECTRONICS INC. / Model: MU24-B480050-A1 I/P: 100-240V, 50-60Hz, 1.0A O/P: 48V, 0.5A
Frequency Range	2412 ~ 2462 MHz
Transmit Power	IEEE 802.11b mode: 13.87 dBm IEEE 802.11g mode: 18.11 dBm IEEE 802.11n HT 20 MHz mode: 20.05 dBm IEEE 802.11n HT 40 MHz mode: 19.58 dBm
Modulation Technique	IEEE 802.11b mode: DSSS (1, 2, 5.5 and 11 Mbps) IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mbps) IEEE 802.11n HT 20 MHz mode: OFDM (13.0, 26.0, 39.0, 52.0, 78.0, 104.0, 117.0, 130.0Mbps) IEEE 802.11n HT 40 MHz mode: OFDM (27.0, 54.0, 81.0, 108.0, 162.0, 216.0, 243.0, 270.0Mbps)
Antenna Specification	1. LanReady / Dipole Antenna / Gain: 9.12492 dBi (Reverse polarity SMA) 2. Grand-Tek / Patch Antenna / Gain: 10 dBi 3. WHA YU / Omni Antenna / Gain: 4.55 dBi 4. LanReady / DipoleAntenna / Gain: 5 dBi (Reverse polarity SMA)

Model	**Brand Name**	**Model**	**Brand Name**
WCB1105H10DX	LanReady	AC-GTT-11N-O	GTT
DAP-3311	D-Link	TEW-739APBO	Trendnet
DT-300N	Cerio	WLO-12410N	Pheenet
AOP8012	Airlink101	OW-310N2	Cerio
DAP-3310	D-Link	CAP-2410D	Wiborne
WLO-12410NP	Pheenet	AMS-D24	ALCON
CAP-2410P	Wiborne	WV-110CPE	Wavecore
TEW-734APB	Trendnet	AOP8010	Airlink101
AMS-P24	ALCON	WCB1110H10X	LanReady
WV110BR	Wavecore	WLO-12400N	Pheenet
AOP8016	Airlink101	OW-300N2	Cerio
WCB1110H10DX	Lanready	CAP-2410E	Wiborne
WCB1100H10DX	LanReady	AMS-D24-N	ALCON
DAP-3312	D-Link	WV-100CPE	Wavecore
AC-GTT-11N-D	GTT	AOP8000	Airlink101
TEW-738APBO	Trendnet	WCB1100H10X	LanReady

Remark:

1. *The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*
2. *This submittal(s) (test report) is intended for FCC ID: **SCDOW141000001** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.*

Model Discrepancy:

Model	Trade Name	Difference
WCB1105H10DX	LanReady	White plastic case/(Built In Omni Antenna) 4.55dBi
DAP-3311	D-Link	White plastic case/(Built In Omni Antenna) 4.55dBi
DT-300N	Cerio	White plastic case/(Built In Omni Antenna) 4.55dBi
AOP8012	Airlink101	White plastic case/(Built In Omni Antenna) 4.55dBi
DAP-3310	D-Link	White plastic case/(Built In Omni Antenna) 4.55dBi
WLO-12410NP	Pheenet	White plastic case/(Built In Omni Antenna) 4.55dBi
CAP-2410P	Wiborne	White plastic case/(Built In Patch Antenna) 9.12492dBi
TEW-734APB	Trendnet	White plastic case/(Built In Patch Antenna) 9.12492dBi
AMS-P24	ALCON	White plastic case/(Built In Patch Antenna) 9.12492dBi
WV110BR	Wavecore	White plastic case/(Built In Patch Antenna) 9.12492dBi
AOP8016	Airlink101	White plastic case/(Built In Patch Antenna) 9.12492dBi
WCB1110H10DX	Lanready	White plastic case/(Built In Patch Antenna) 9.12492dBi
WCB1100H10DX	LanReady	White plastic case/(Built In Patch Antenna) 9.12492dBi
DAP-3312	D-Link	White plastic case/(Built In Patch Antenna) 9.12492dBi
AC-GTT-11N-D	GTT	White plastic case/DAP3312 (External SMA + 5dBi Ant)
TEW-738APBO	Trendnet	White plastic case/DAP3312 (External SMA + 5dBi Ant)
AC-GTT-11N-O	GTT	Iron-hull/(Built in Patch Antenna 10dBi)
TEW-739APBO	Trendnet	Iron-hull/(Built in Patch Antenna 10dBi)
WLO-12410N	Pheenet	Iron-hull/N-Connector + 5dBi Omni
OW-310N2	Cerio	Iron-hull/N-Connector + 5dBi Omni
CAP-2410D	Wiborne	Aluminum case/(Built In Patch Antenna 9.12492dBi)
AMS-D24	ALCON	Aluminum case/(Built In Patch Antenna 9.12492dBi)
WV-110CPE	Wavecore	Aluminum case/(Built In Patch Antenna 9.12492dBi)
AOP8010	Airlink101	Aluminum case/(Built In Patch Antenna 9.12492dBi)
WCB1110H10X	LanReady	Aluminum case/(Built In Patch Antenna 9.12492dBi)
WLO-12400N	Pheenet	Aluminum case/(Built In Patch Antenna 9.12492dBi)
OW-300N2	Cerio	Aluminum case/(Built In Patch Antenna 9.12492dBi)
CAP-2410E	Wiborne	Aluminum case +N Connector 5dBi Ant
AMS-D24-N	ALCON	Aluminum case +N Connector 5dBi Ant
WV-100CPE	Wavecore	Aluminum case +N Connector 5dBi Ant
AOP8000	Airlink101	Aluminum case +N Connector 5dBi Ant
WCB1100H10X	LanReady	Aluminum case +N Connector 5dBi Ant

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC CFR 47 Part 15.207, 15.209, 15.247, KDB558074.

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	([2])
13.36 - 13.41	322 - 335.4		

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2] Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: WCB1105H10DX) comes with three types of power adapter (PA1024-4I/PA1024-4IB/PA1024-480IB050 / UEC345-4808 / MU24-B480050-A1) for sale. After the preliminary test, the power adapter MV12-Y120100-B2 was found to emit the worst emissions and therefore had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

IEEE 802.11b mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz mode:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz mode:

Channel Low (2422MHz), Channel Mid (2437MHz) and Channel High (2452MHz) with 13.5Mbps data rate were chosen for full testing.

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: *Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.*

Conducted Emissions Test Site				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/20/2014
Power Meter	Anritsu	ML2495A	1012009	06/05/2013
Power Sensor	Anritsu	MA2411A	0917072	06/05/2013

3M Chamber Test Site				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	US42510268	11/06/2013
EMI Test Receiver	R&S	ESCI	100064	02/28/2014
Pre-Amplifier	Mini-Circults	ZFL-1000LN	SF350700823	01/12/2014
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1415367	11/19/2013
Bilog Antenna	Sunol Sciences	JB3	A030105	10/02/2013
Horn Antenna	EMCO	3117	00055165	02/13/2014
Horn Antenna	EMCO	3116	2487	10/10/2013
Loop Antenna	EMCO	6502	8905/2356	06/10/2013
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	12/22/2013
Test S/W	EZ-EMC (CCS-3A1RE)			

Conducted Emission Test Site B				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
EMI Test Receiver	R&S	ESCI	101073	07/31/2013
LISN	R&S	ENV216	101054	06/06/2013
LISN	SCHWARZBECK	NSLK 8127	8127-541	12/10/2013
ISN	FCC	FCC-TLISN-T2-02-09	100105	07/30/2013
ISN	FCC	FCC-TLISN-T8-02-09	100106	07/31/2013
Capacitive Voltage Probe	FCC	F-CVP-1	100185	03/15/2014
Test S/W	CCS-3A1-CE-wugu			

4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.2575
3M Semi Anechoic Chamber / >200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

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

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

☐ No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

☐ No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN, R.O.C.
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method –47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	TAF Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Poe	N/A	PE03G-EIA	N/A	N/A	N/A	Non-shielded, 2.0 m
2.	NB	HP	Pavilion dv6	VX250PA#ABO	R33022	Non-shielded, 2.0 m	Non-shielded, 1.8 m
3.	Terminal	N/A	N/A	N/A	N/A	N/A	Non-shielded, 1.8 m

Remark:

1. *All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.*
2. *Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*

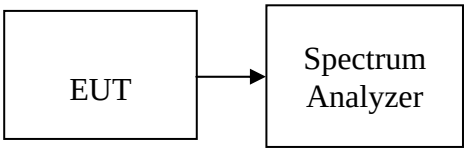
7. FCC PART 15.247 REQUIREMENTS

7.1 6DB BANDWIDTH

LIMIT

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 6dB bandwidth shall be at least 500 kHz.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in the 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=300kHz, Span = 50 MHz, Sweep = auto.
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.4167	>500	PASS
Mid	2437	10.4167		PASS
High	2462	10.4167		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.5833	>500	PASS
Mid	2437	16.5833		PASS
High	2462	16.5833		PASS

Test mode: IEEE 802.11n HT 20 MHz mode / Chain 0

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.8334	>500	PASS
Mid	2437	17.8334		PASS
High	2462	17.8334		PASS

Test mode: IEEE 802.11n HT 20 MHz mode / Chain 1

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.9167	>500	PASS
Mid	2437	17.9167		PASS
High	2462	17.9167		PASS

Test mode: IEEE 802.11n HT 40 MHz mode / Chain 0

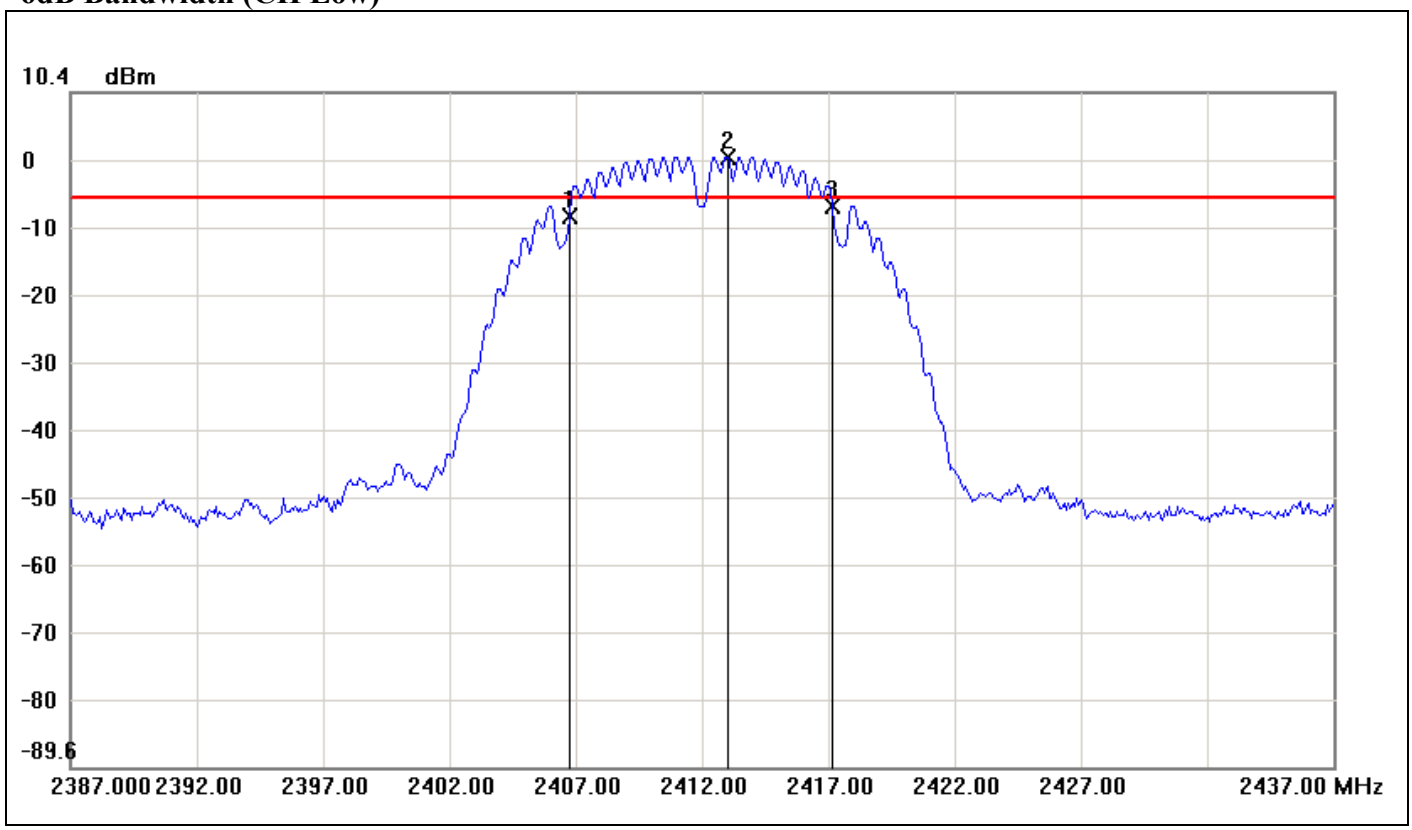
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.6667	>500	PASS
Mid	2437	36.6666		PASS
High	2452	36.75		PASS

Test mode: IEEE 802.11n HT 40 MHz mode / Chain 1

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.5833	>500	PASS
Mid	2437	36.5833		PASS
High	2452	36.5		PASS

IEEE 802.11b mode

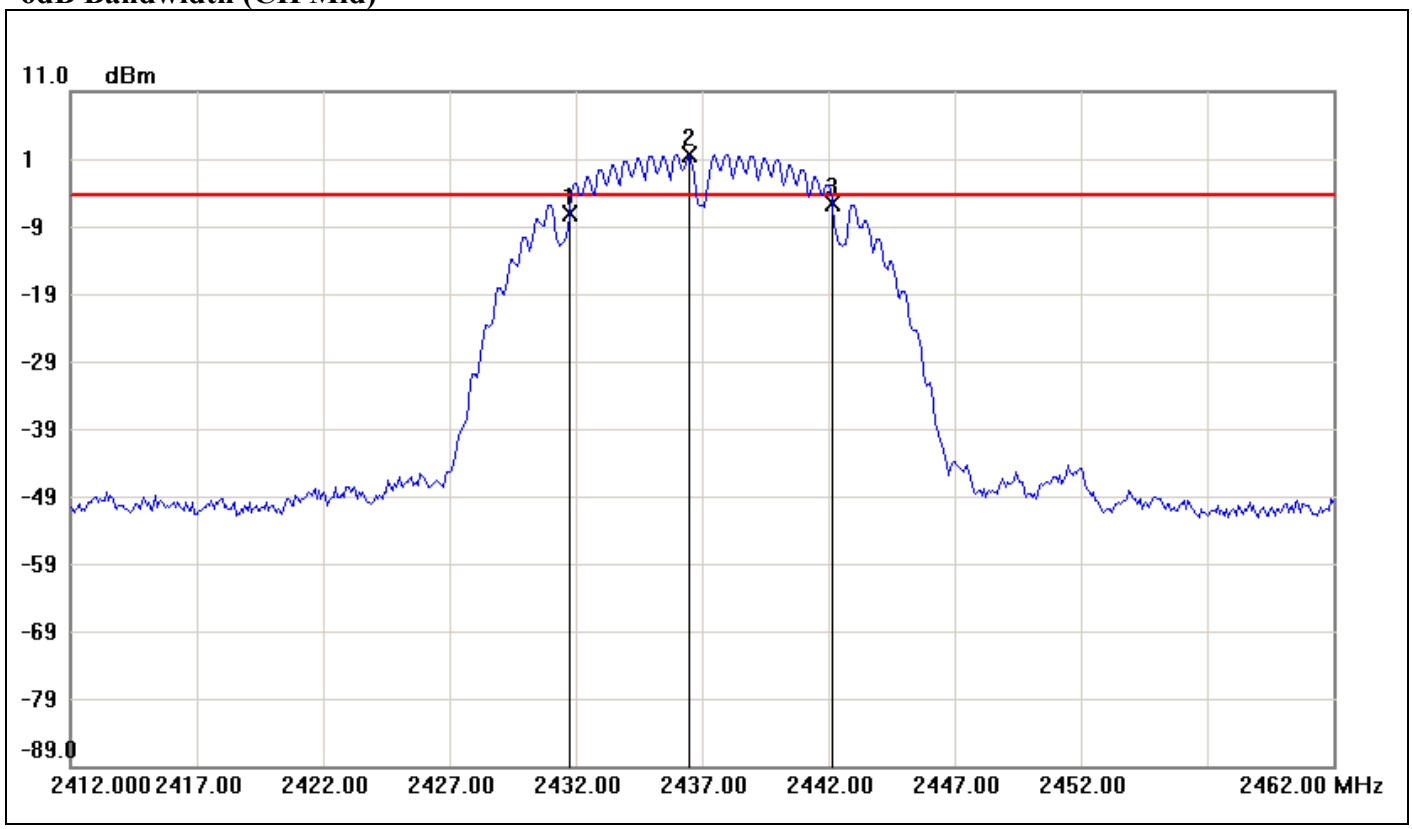
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.7500	-7.88	-5.23	-2.65
2	2413.0000	0.77	-5.23	6.00
3	2417.1667	-6.40	-5.23	-1.17

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.4167	1.48

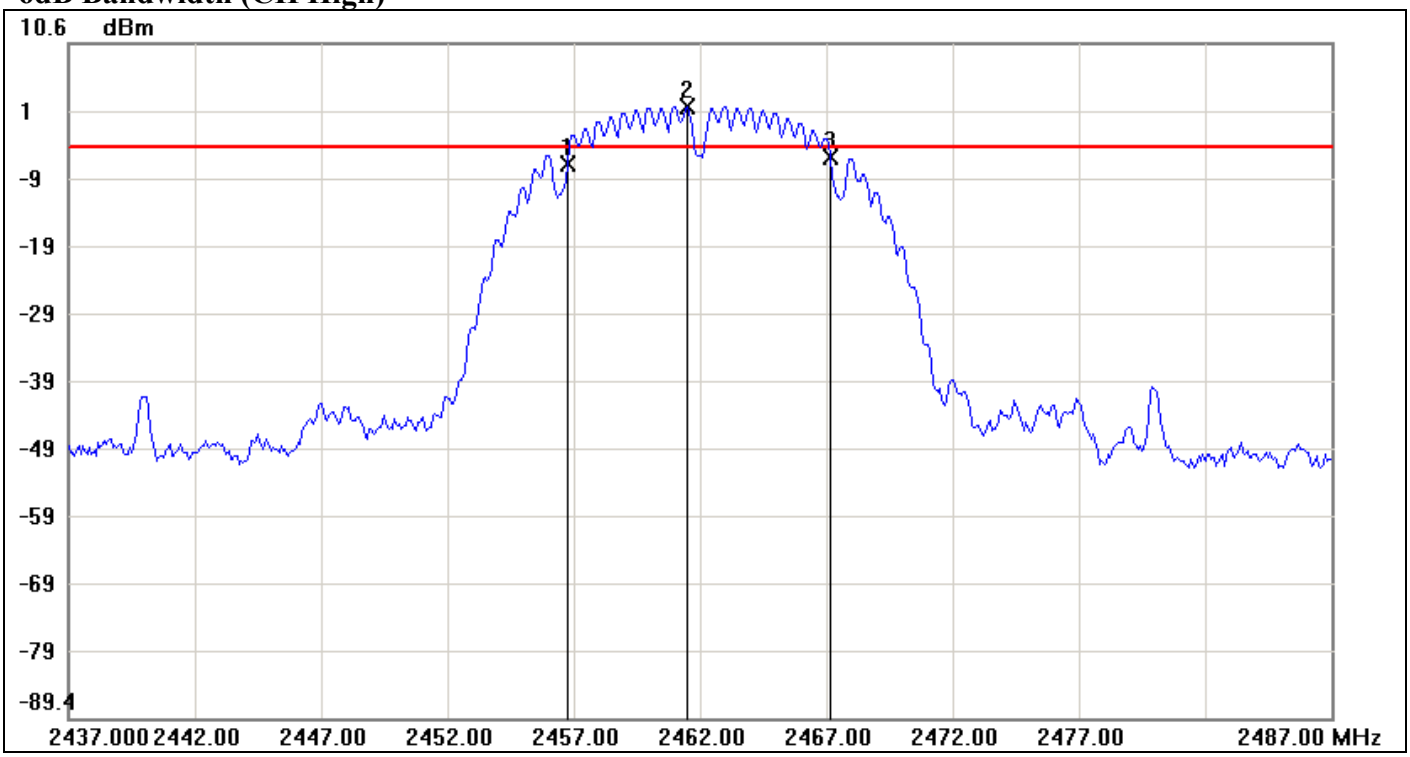
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2431.7500	-7.10	-4.44	-2.66
2	2436.5000	1.56	-4.44	6.00
3	2442.1667	-5.65	-4.44	-1.21

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.4167	1.45

6dB Bandwidth (CH High)

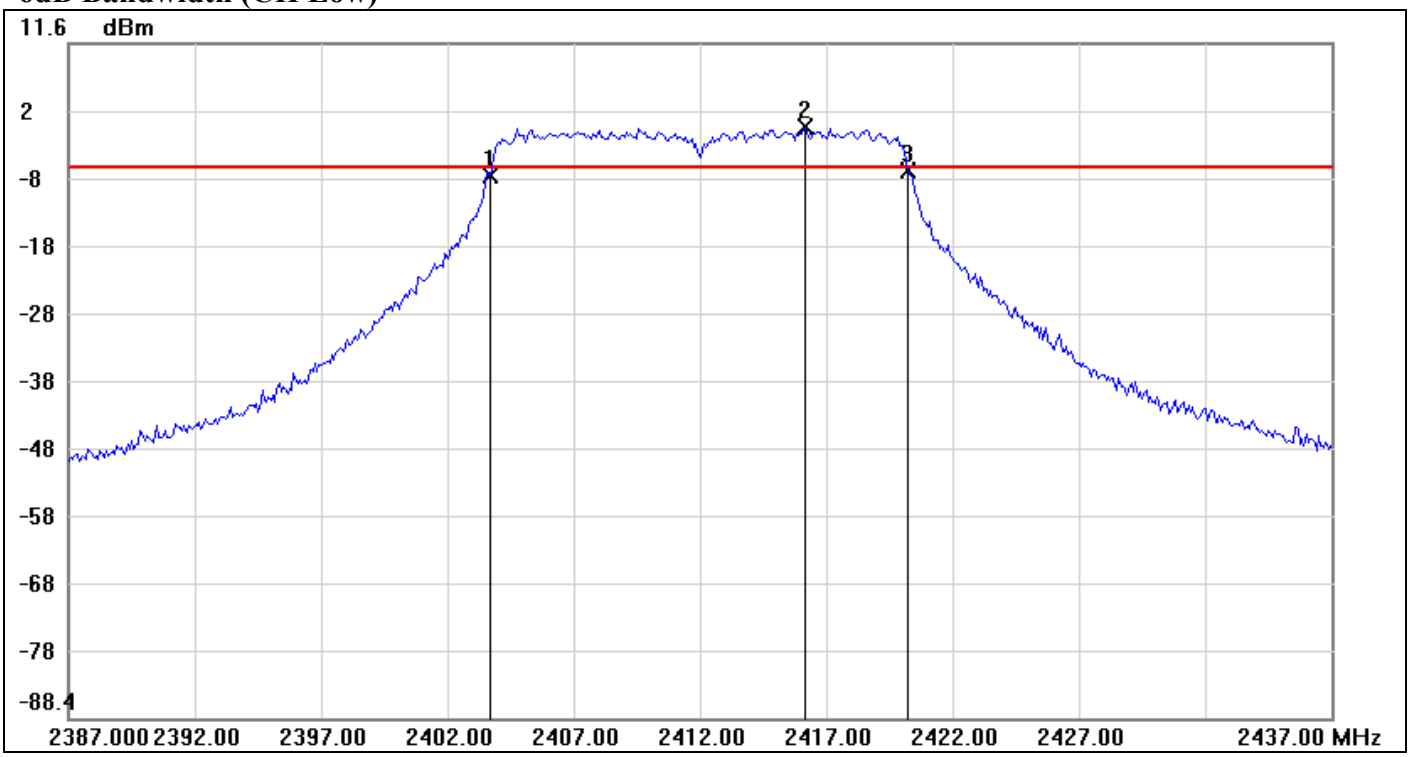


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2456.7500	-7.31	-4.82	-2.49
2	2461.5000	1.18	-4.82	6.00
3	2467.1667	-6.23	-4.82	-1.41

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	10.4167	1.08

IEEE 802.11g mode

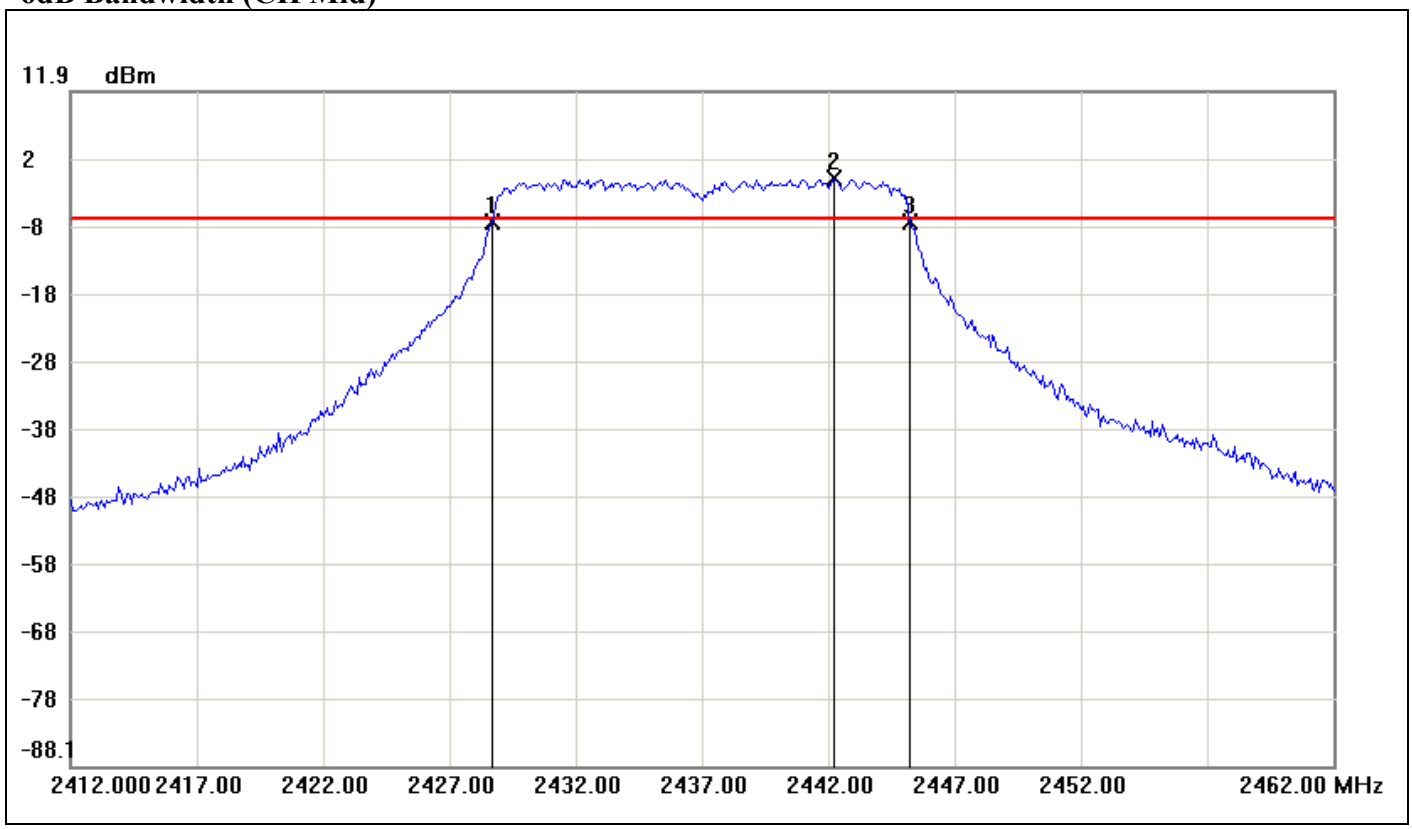
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.6667	-7.96	-6.90	-1.06
2	2416.1667	-0.90	-6.90	6.00
3	2420.2500	-7.42	-6.90	-0.52

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	16.5833	0.54

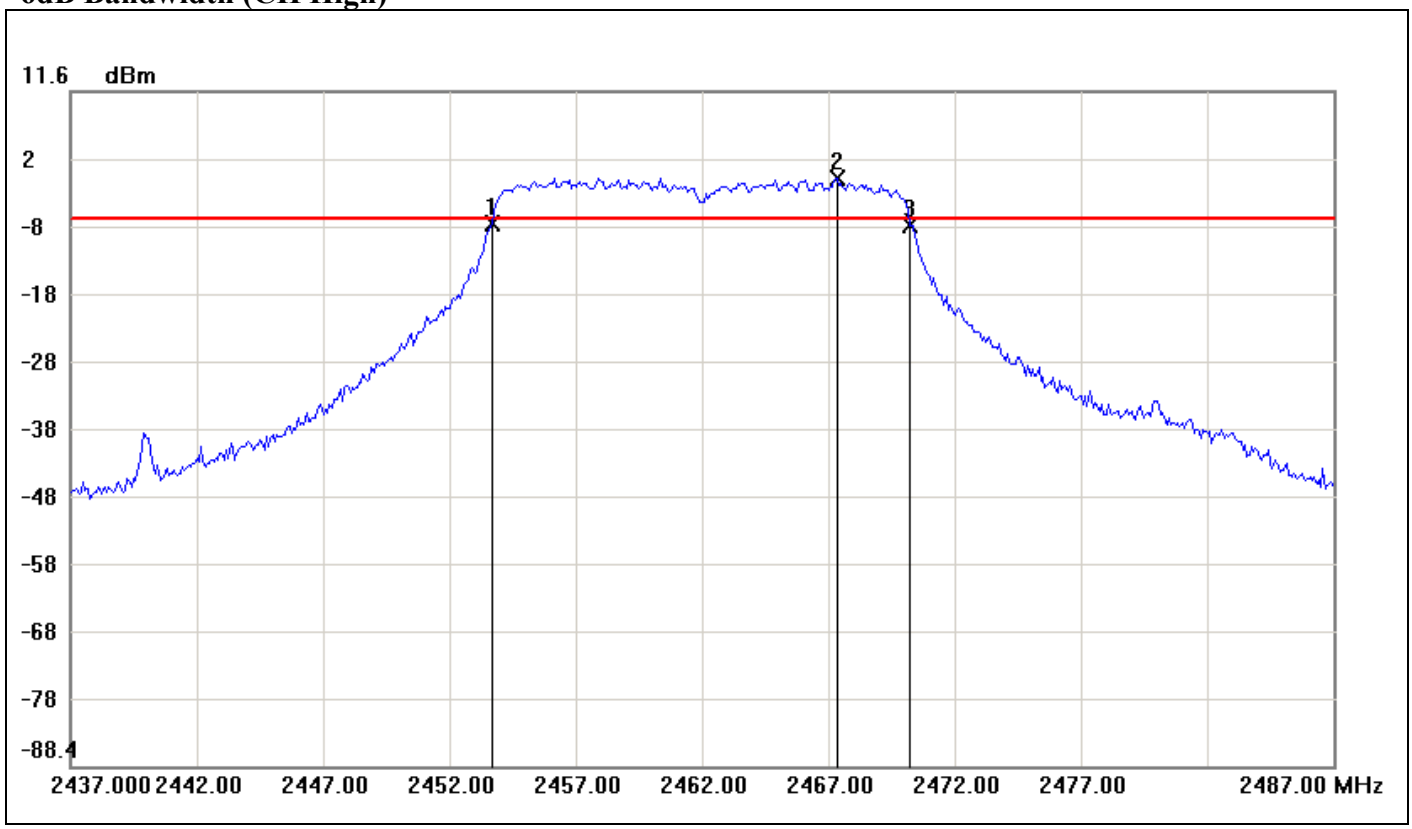
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.6667	-7.45	-7.10	-0.35
2	2442.2500	-1.10	-7.10	6.00
3	2445.2500	-7.58	-7.10	-0.48

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	16.5833	-0.13

6dB Bandwidth (CH High)

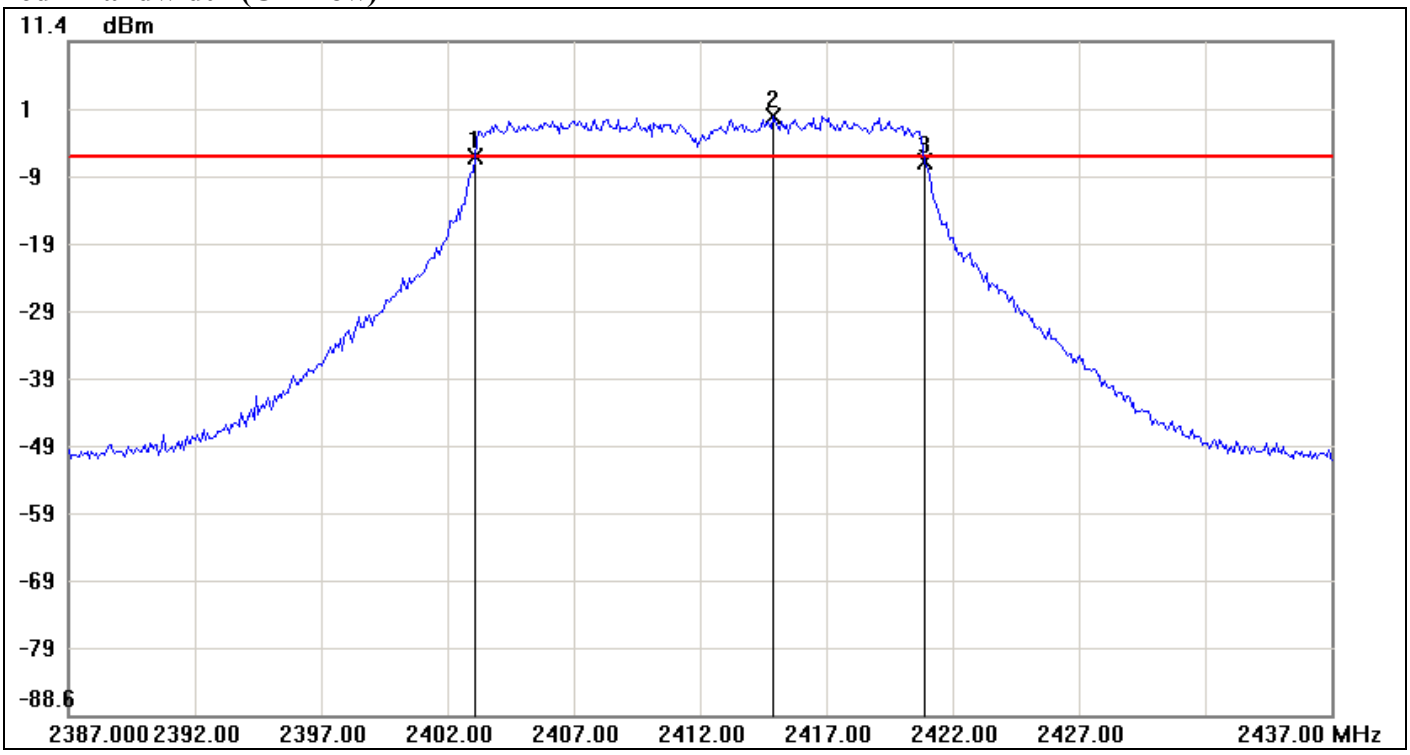


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.6667	-7.95	-7.27	-0.68
2	2467.3333	-1.27	-7.27	6.00
3	2470.2500	-8.20	-7.27	-0.93

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	16.5833	-0.25

IEEE 802.11n HT 20 MHz mode / Chin 0

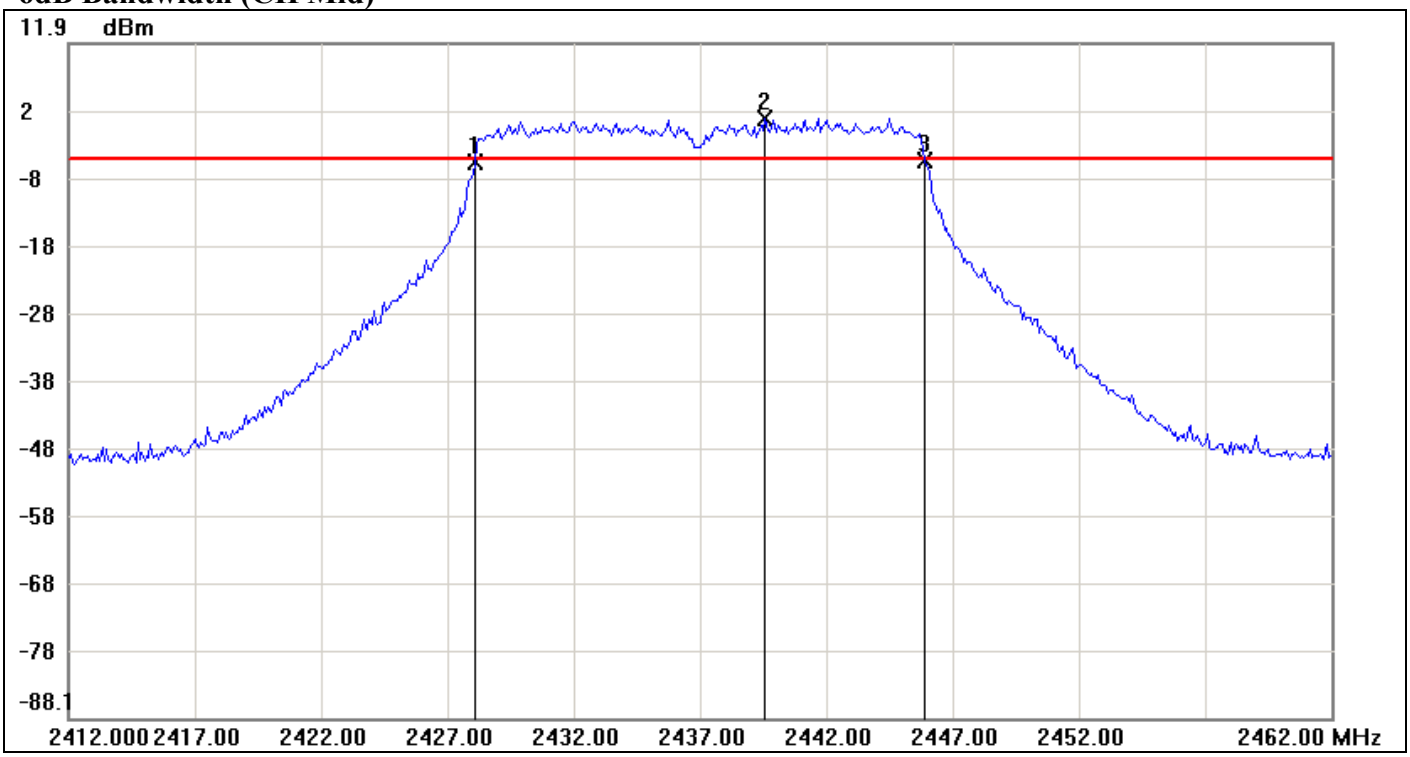
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.0833	-5.63	-5.62	-0.01
2	2414.9167	0.38	-5.62	6.00
3	2420.9167	-6.53	-5.62	-0.91

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.8334	-0.9

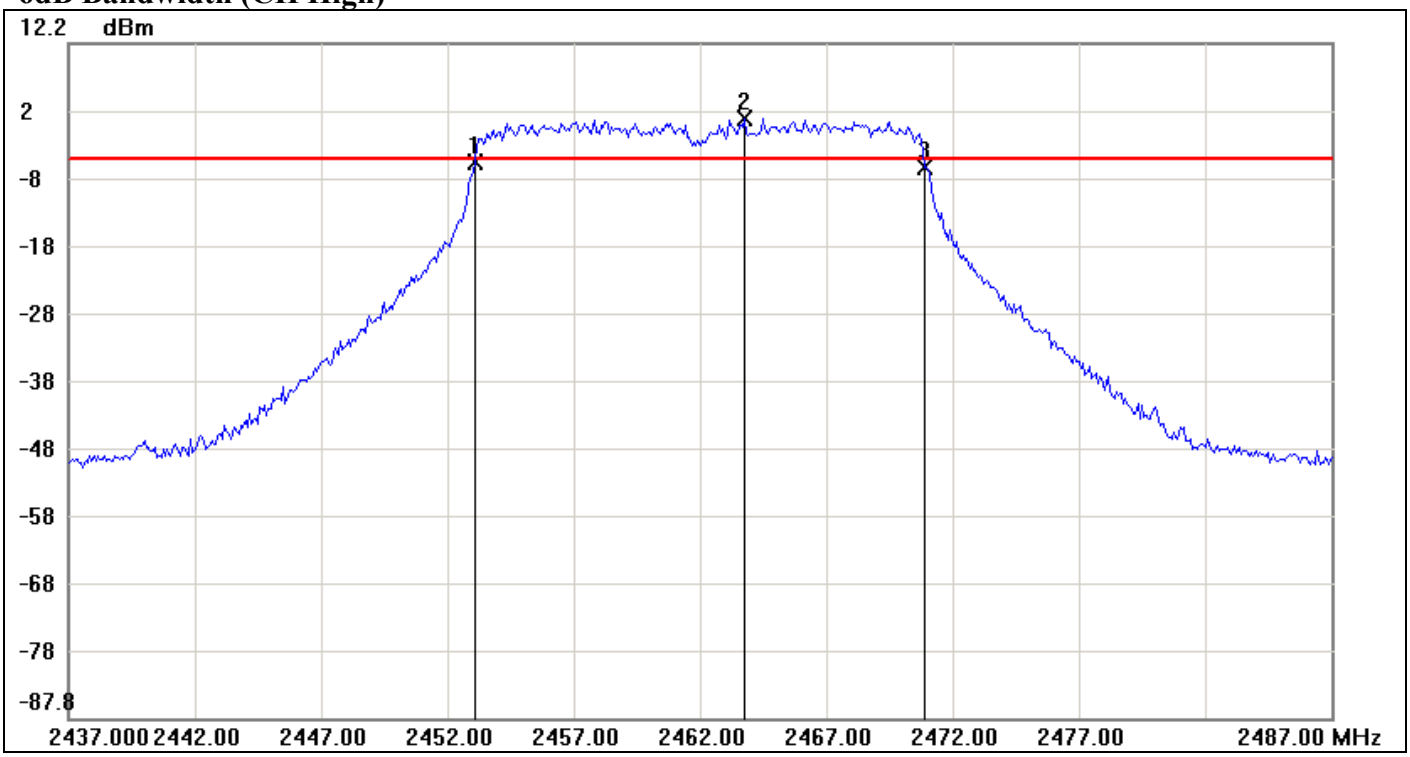
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.0833	-5.66	-5.15	-0.51
2	2439.5833	0.85	-5.15	6.00
3	2445.9167	-5.58	-5.15	-0.43

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.8334	0.08

6dB Bandwidth (CH High)

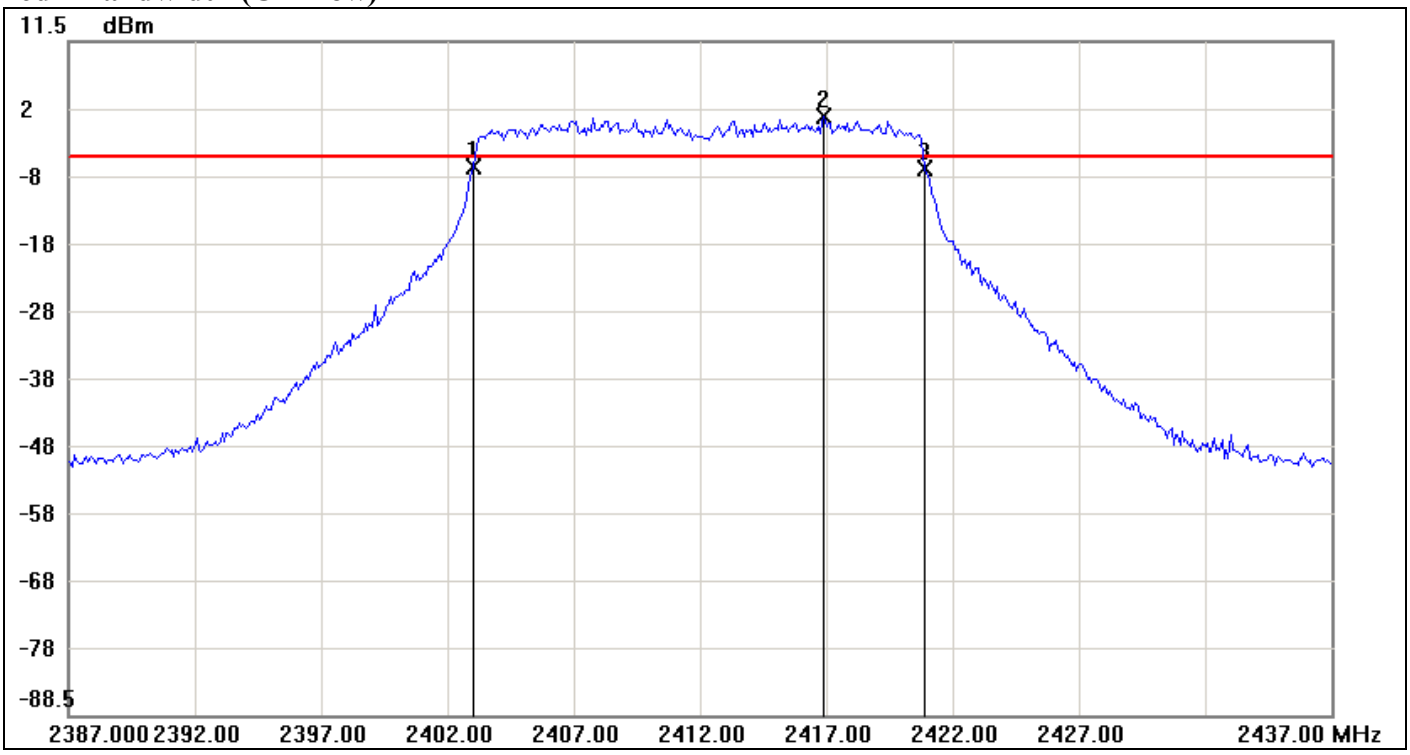


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.0833	-5.26	-4.83	-0.43
2	2463.7500	1.17	-4.83	6.00
3	2470.9167	-6.21	-4.83	-1.38

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.8334	-0.95

IEEE 802.11n HT 20 MHz mode / Chin 1

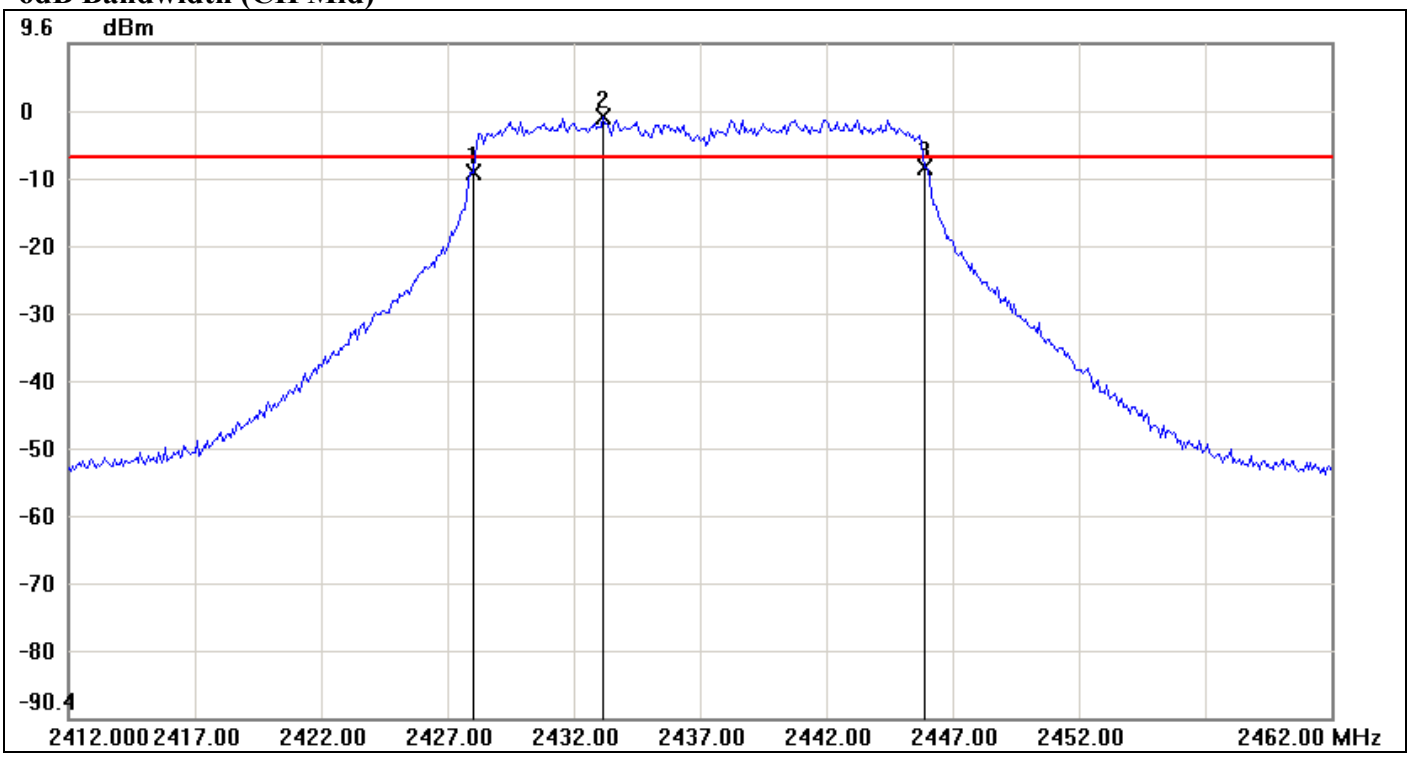
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.0000	-7.07	-5.48	-1.59
2	2416.9167	0.52	-5.48	6.00
3	2420.9167	-7.39	-5.48	-1.91

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.9167	-0.32

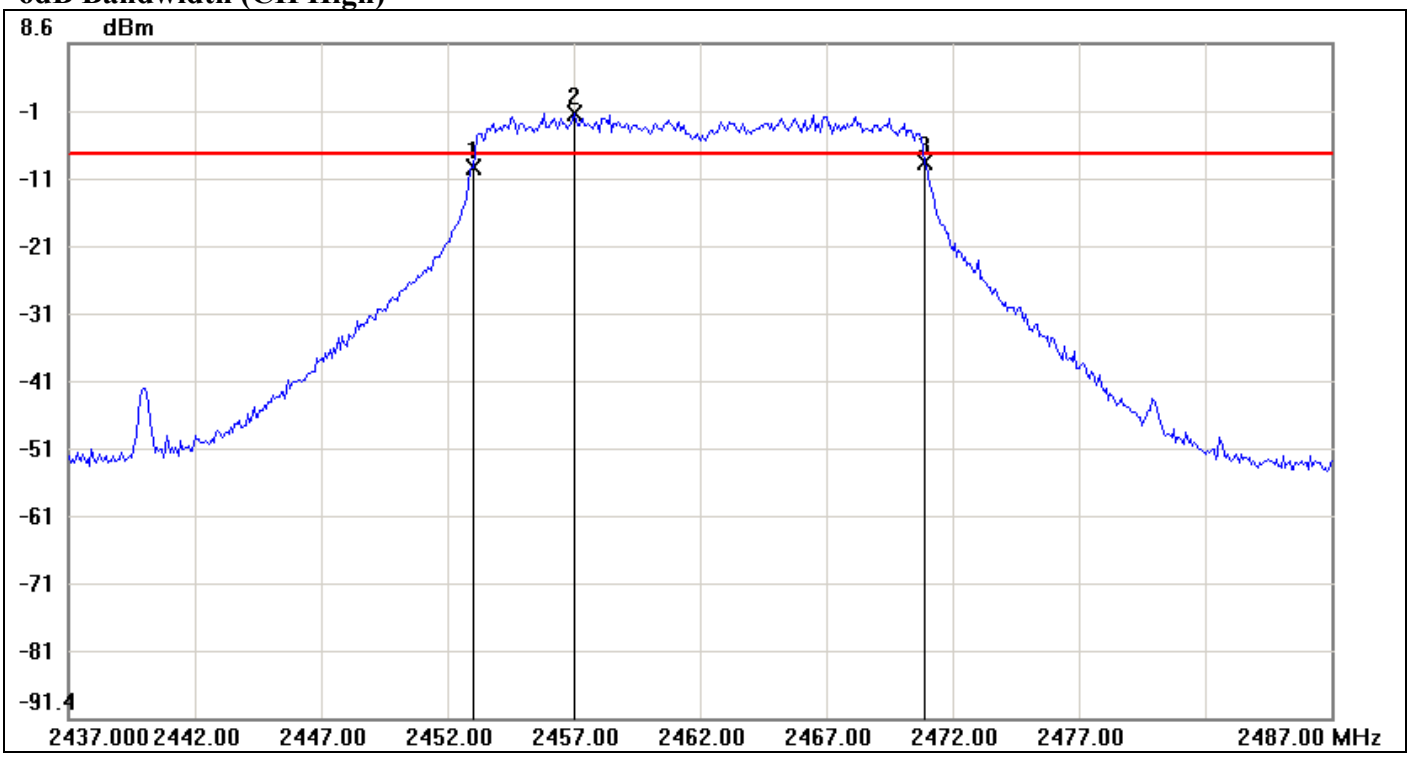
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2428.0000	-9.54	-7.35	-2.19
2	2433.1667	-1.35	-7.35	6.00
3	2445.9167	-8.71	-7.35	-1.36

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.9167	0.83

6dB Bandwidth (CH High)

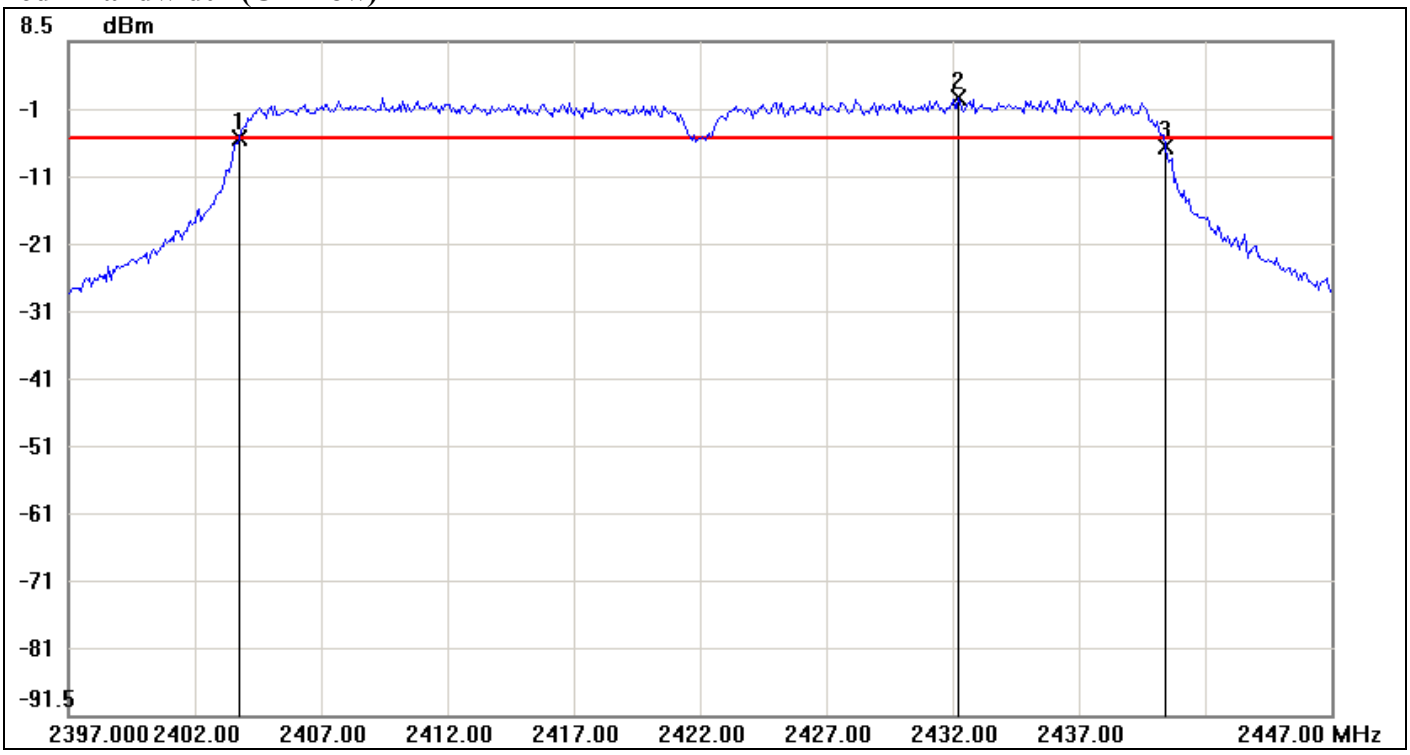


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2453.0000	-9.88	-7.83	-2.05
2	2457.0000	-1.83	-7.83	6.00
3	2470.9167	-9.10	-7.83	-1.27

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	17.9167	0.78

IEEE 802.11n HT 40 MHz mode / Chin 0

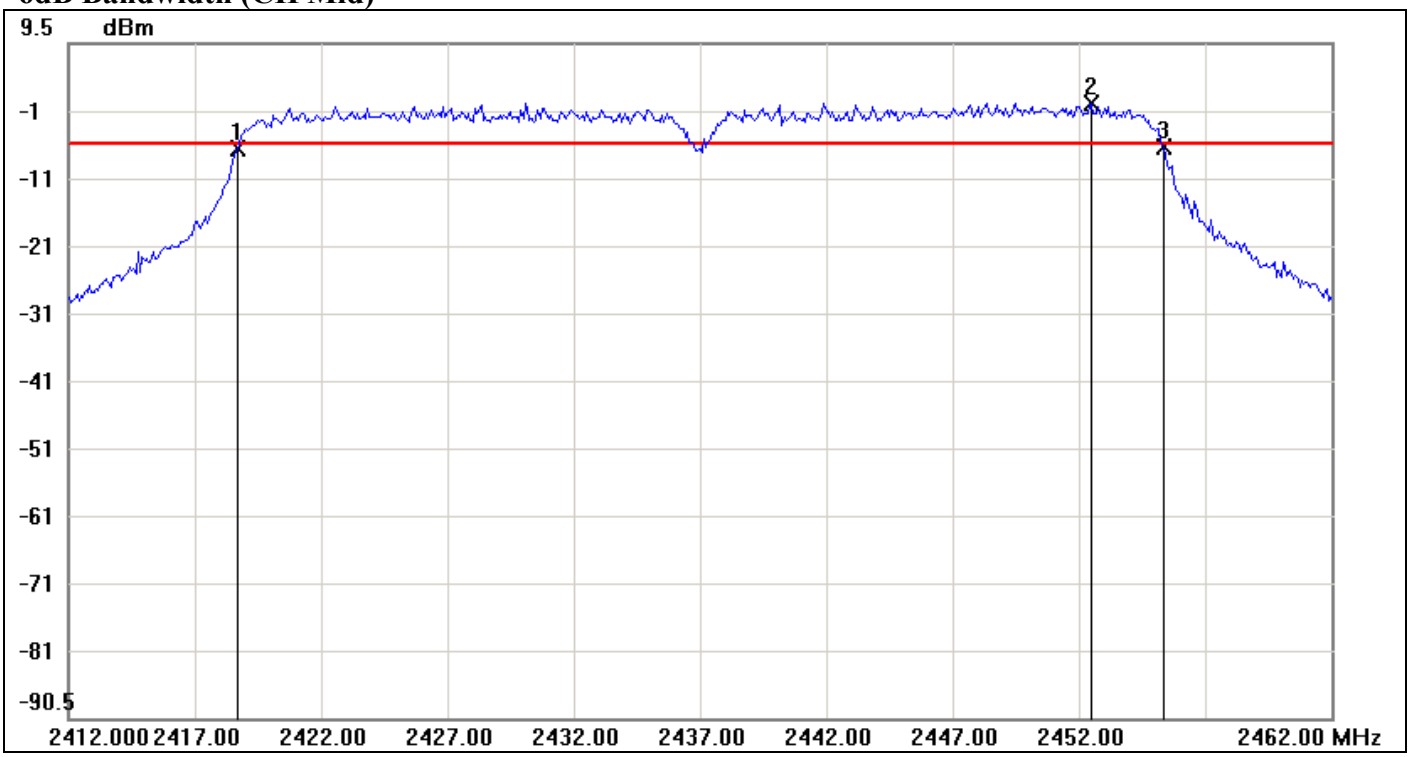
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.7500	-5.87	-5.80	-0.07
2	2432.2500	0.20	-5.80	6.00
3	2440.4167	-7.19	-5.80	-1.39

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.6667	-1.32

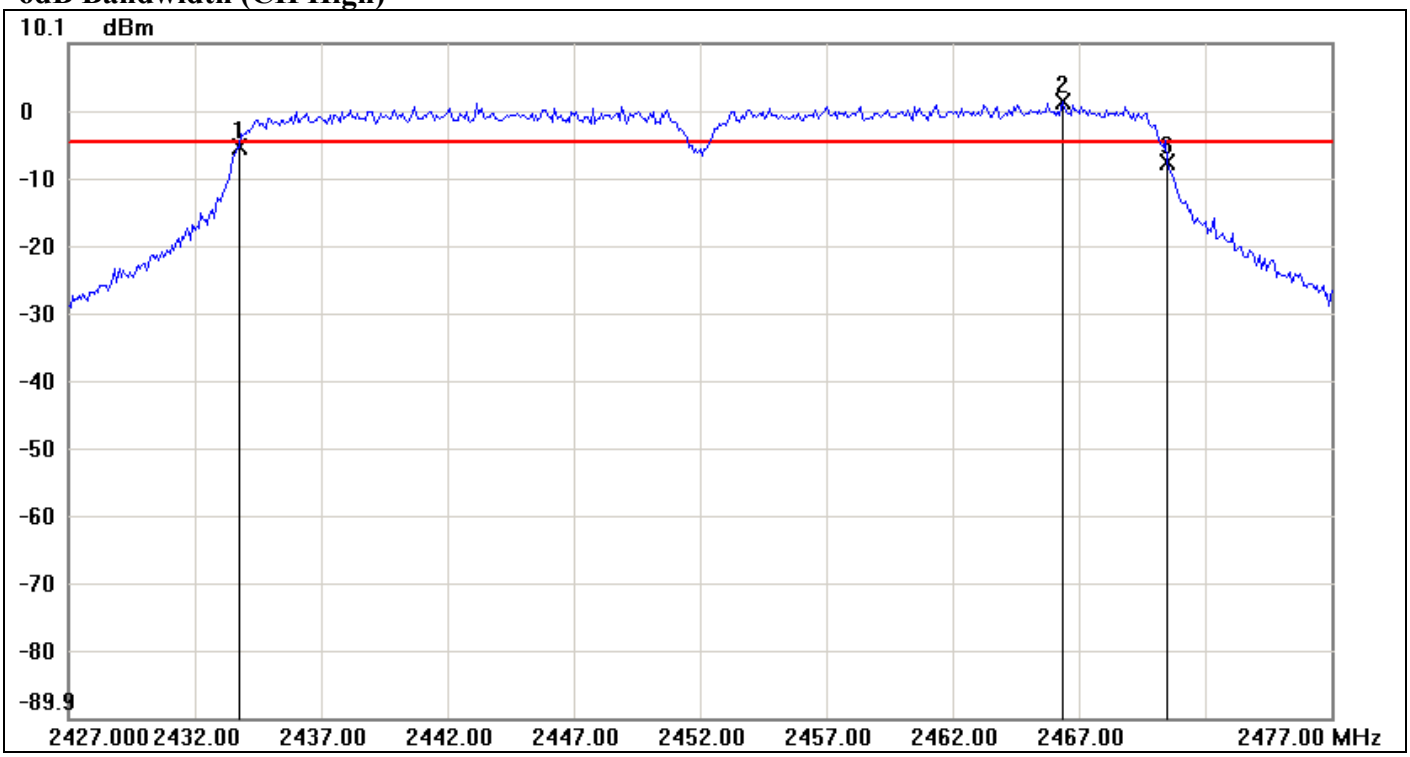
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2418.6667	-6.18	-5.35	-0.83
2	2452.5000	0.65	-5.35	6.00
3	2455.3333	-5.86	-5.35	-0.51

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.6666	0.32

6dB Bandwidth (CH High)

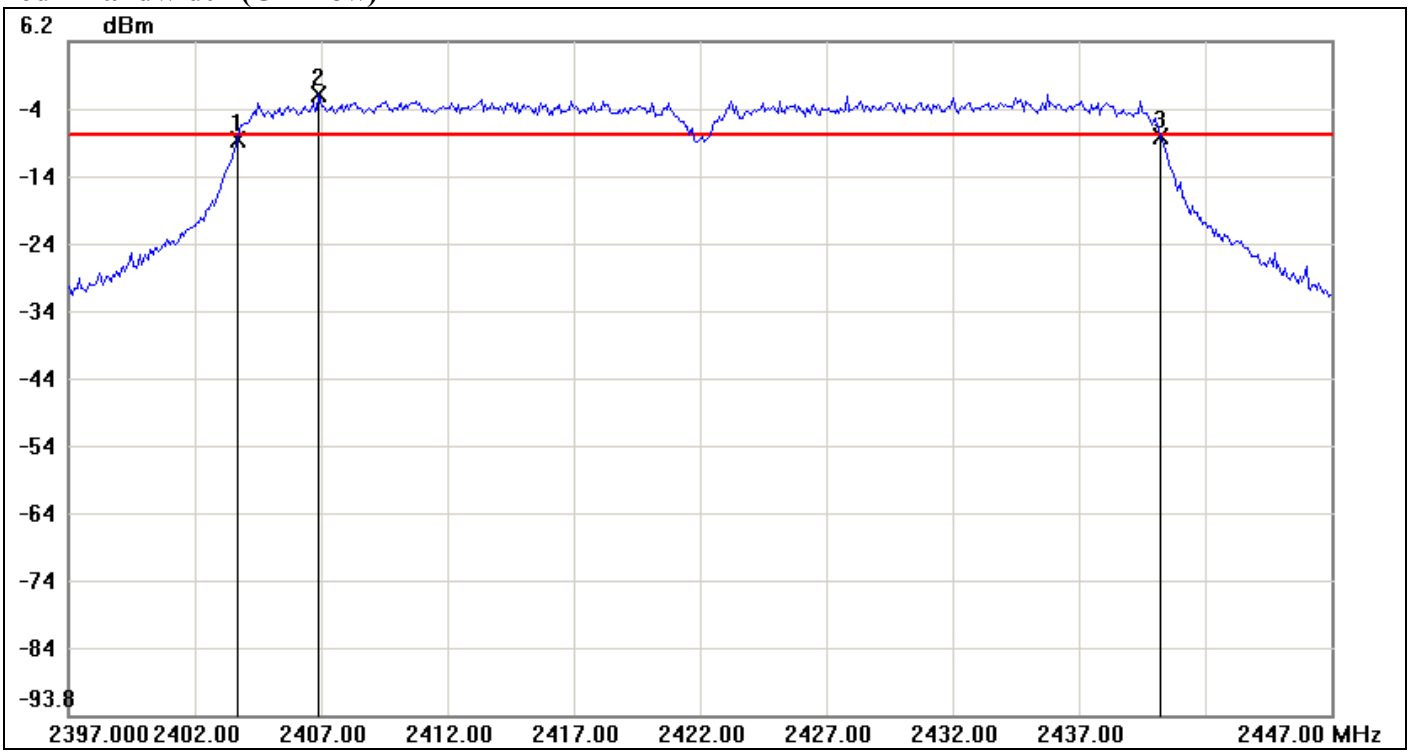


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2433.7500	-5.19	-4.67	-0.52
2	2466.3333	1.33	-4.67	6.00
3	2470.5000	-7.54	-4.67	-2.87

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.75	-2.35

IEEE 802.11n HT 40 MHz mode / Chin 1

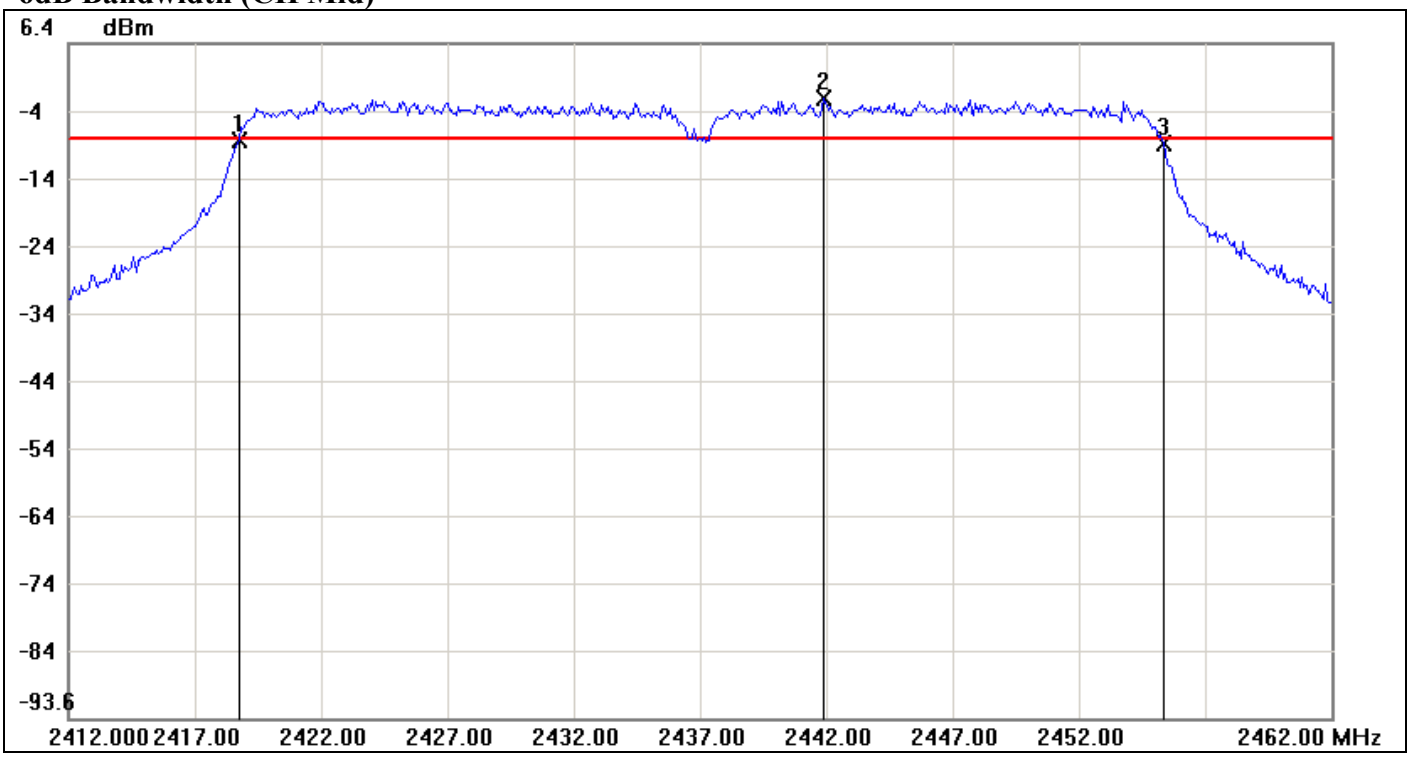
6dB Bandwidth (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2403.6667	-8.49	-7.66	-0.83
2	2406.9167	-1.66	-7.66	6.00
3	2440.2500	-7.96	-7.66	-0.30

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.5833	0.53

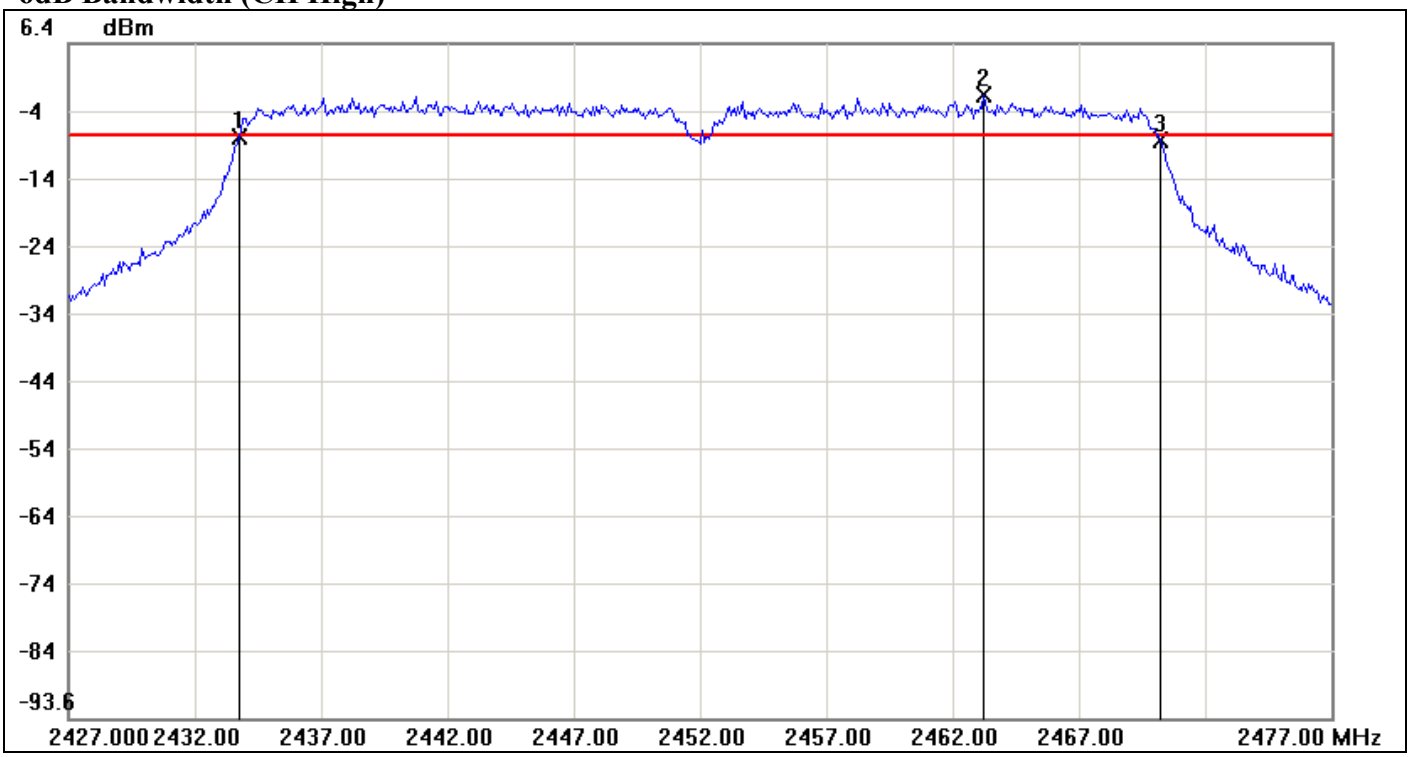
6dB Bandwidth (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2418.7500	-8.03	-7.65	-0.38
2	2441.9167	-1.65	-7.65	6.00
3	2455.3333	-8.56	-7.65	-0.91

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.5833	-0.53

6dB Bandwidth (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2433.7500	-7.53	-7.30	-0.23
2	2463.2500	-1.30	-7.30	6.00
3	2470.2500	-7.87	-7.30	-0.57

No.		△Frequency(MHz)	△Level(dB)
1	mk3-mk1	36.5	-0.34

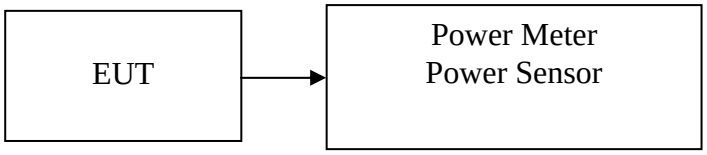
7.2 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
2. According to §15.247(b)(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.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.19	0.0208	1.00	PASS
Mid	2437	13.87	0.0244		PASS
High	2462	13.69	0.0234		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	17.8	0.0603	1.00	PASS
Mid	2437	18.11	0.0647		PASS
High	2462	17.72	0.0592		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Chain 0 Output Power (dBm)	Chain 1 Output Power (dBm)	Total Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	16.8	17.26	20.05	0.1012	1.00	PASS
Mid	2437	17.21	15.2	19.33	0.0857		PASS
High	2462	17.57	14.51	19.31	0.0853		PASS

Test mode: IEEE 802.11n HT 40 MHz mode

Channel	Frequency (MHz)	Chain 0 Output Power (dBm)	Chain 1 Output Power (dBm)	Total Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2422	16.91	14.76	18.98	0.0791	1.00	PASS
Mid	2437	17.25	14.84	19.22	0.0836		PASS
High	2452	17.79	14.87	19.58	0.0908		PASS

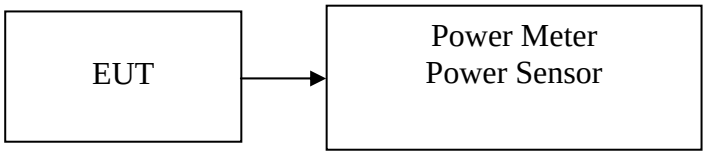
Remark: *Total Output Power (w) = Chain 0 (10^(Output Power /10)/1000)+ Chain 1 (10^(Output Power /10)/1000)*

7.3 AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the Average power detection.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)
Low	2412	10.8	0.0120
Mid	2437	11.43	0.0139
High	2462	11.21	0.0132

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)
Low	2412	7.9	0.0062
Mid	2437	8.13	0.0065
High	2462	7.72	0.0059

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Chain 0 Output Power (dBm)	Chain 1 Output Power (dBm)	Total Output Power (dBm)	Output Power (W)
Low	2412	7.37	7.53	10.46	0.0111
Mid	2437	7.8	5.71	9.89	0.0097
High	2462	8.11	5.01	9.84	0.0096

Test mode: IEEE 802.11n HT 40 MHz mode

Channel	Frequency (MHz)	Chain 0 Output Power (dBm)	Chain 1 Output Power (dBm)	Total Output Power (dBm)	Output Power (W)
Low	2422	7.38	5.17	9.42	0.0087
Mid	2437	7.73	5.26	9.68	0.0093
High	2452	8.29	5.26	10.04	0.0101

Remark: *Total Output Power (w) = Chain 0 (10^(Output Power /10)/1000)+ Chain 1 (10^(Output Power /10)/1000)*

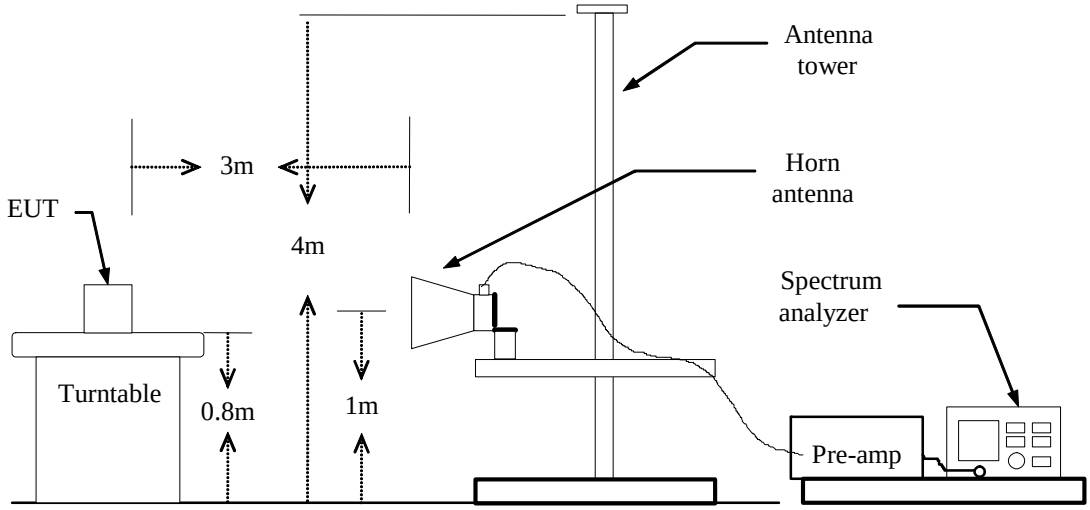
7.4 BAND EDGES MEASUREMENT

LIMIT

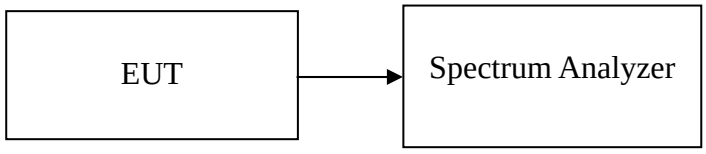
According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration

For Radiated



For Conducted



TEST PROCEDURE

For Radiated

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz / VBW= 300Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

For Conducted

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

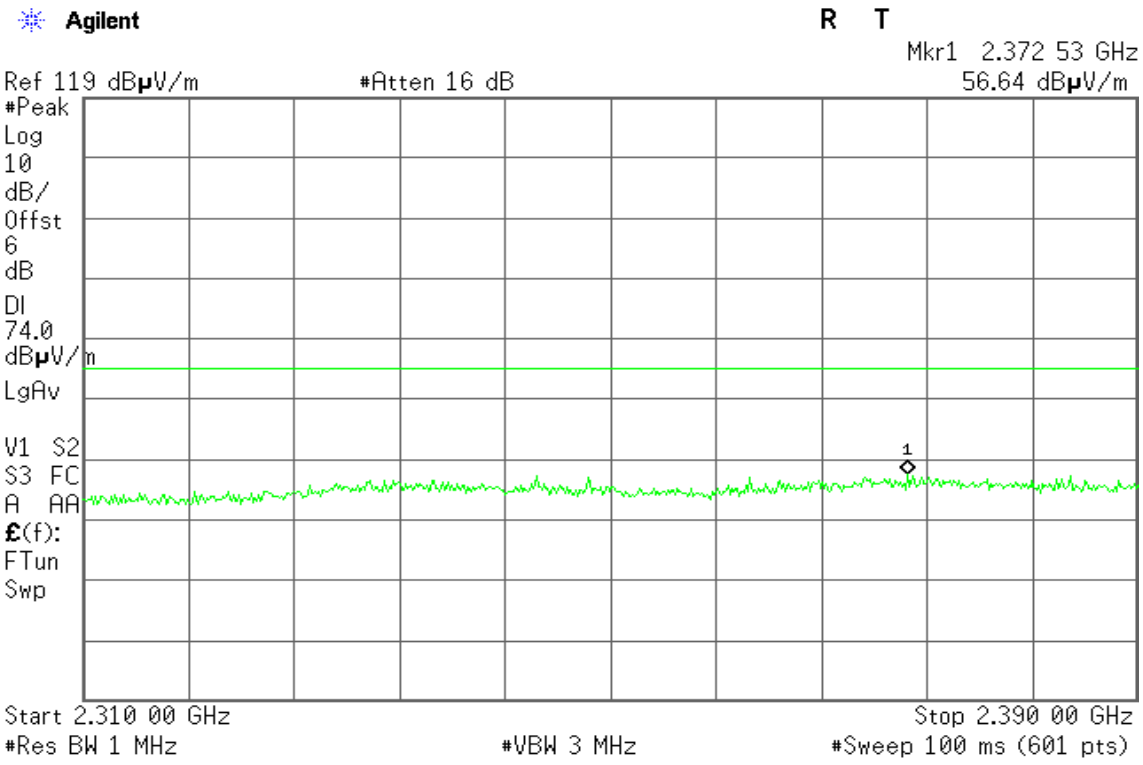
TEST RESULTS

Refer to attach spectrum analyzer data chart.

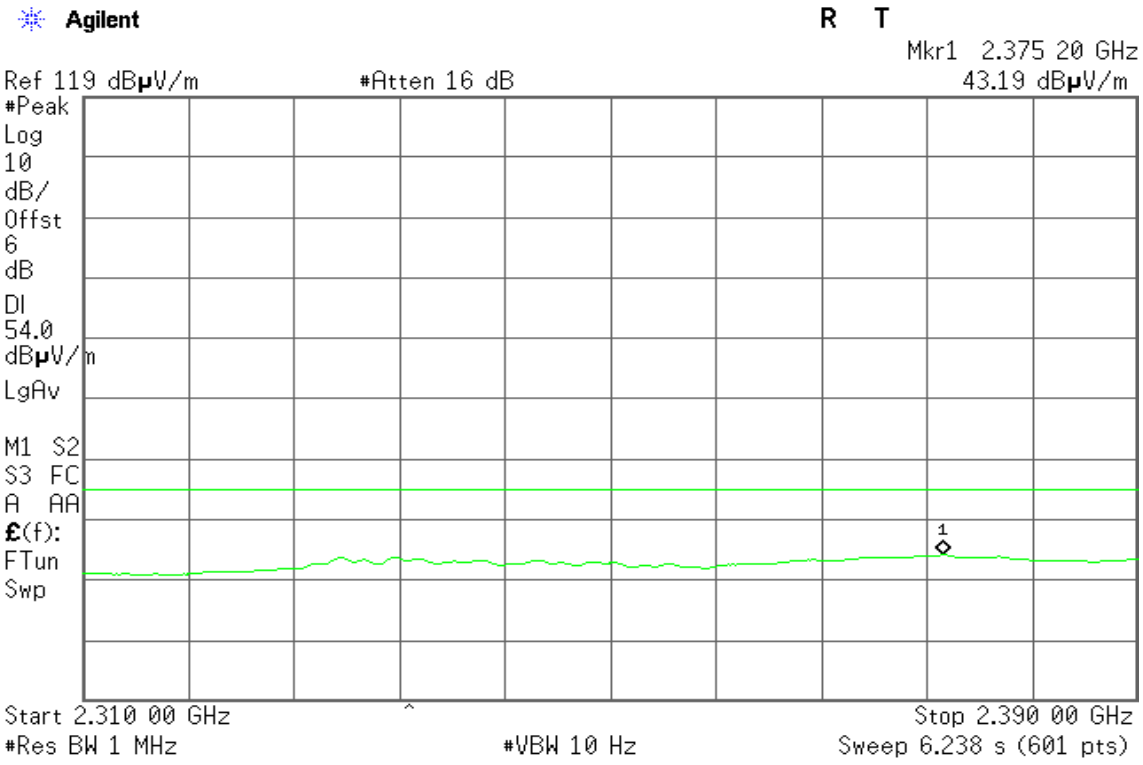
For WHA YU

Band Edges (IEEE 802.11b mode / CH Low)

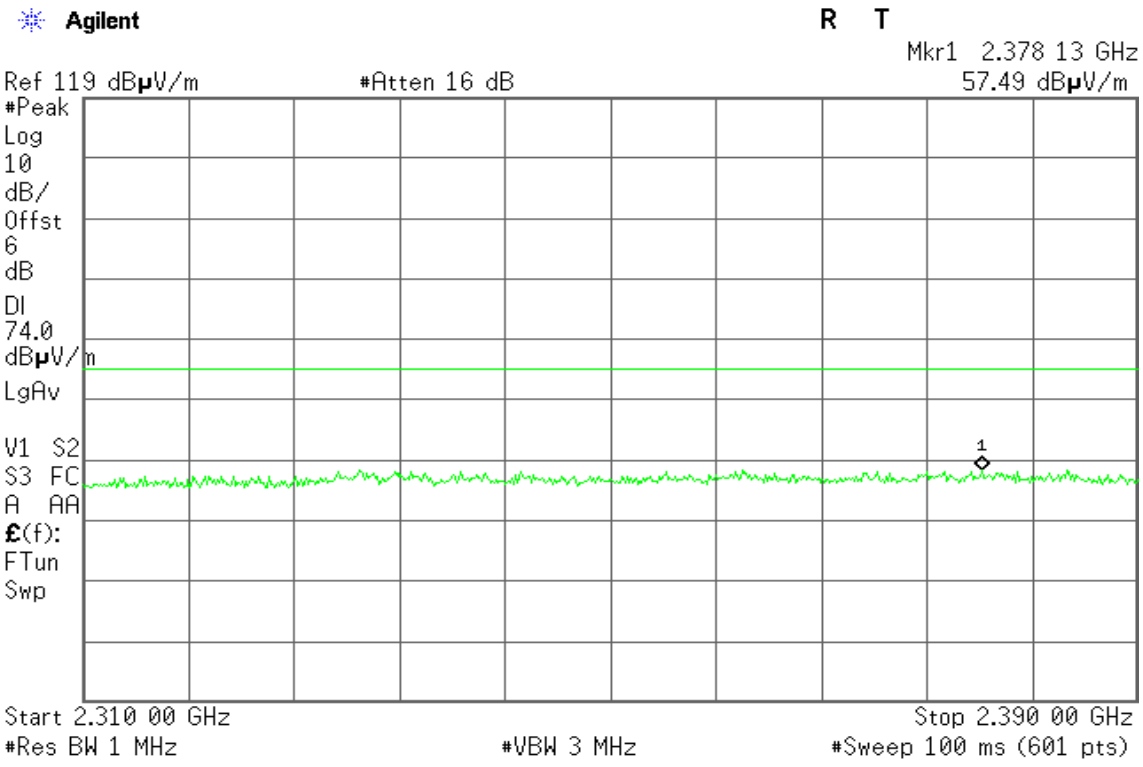
Detector mode: Peak **Polarity: Vertical**



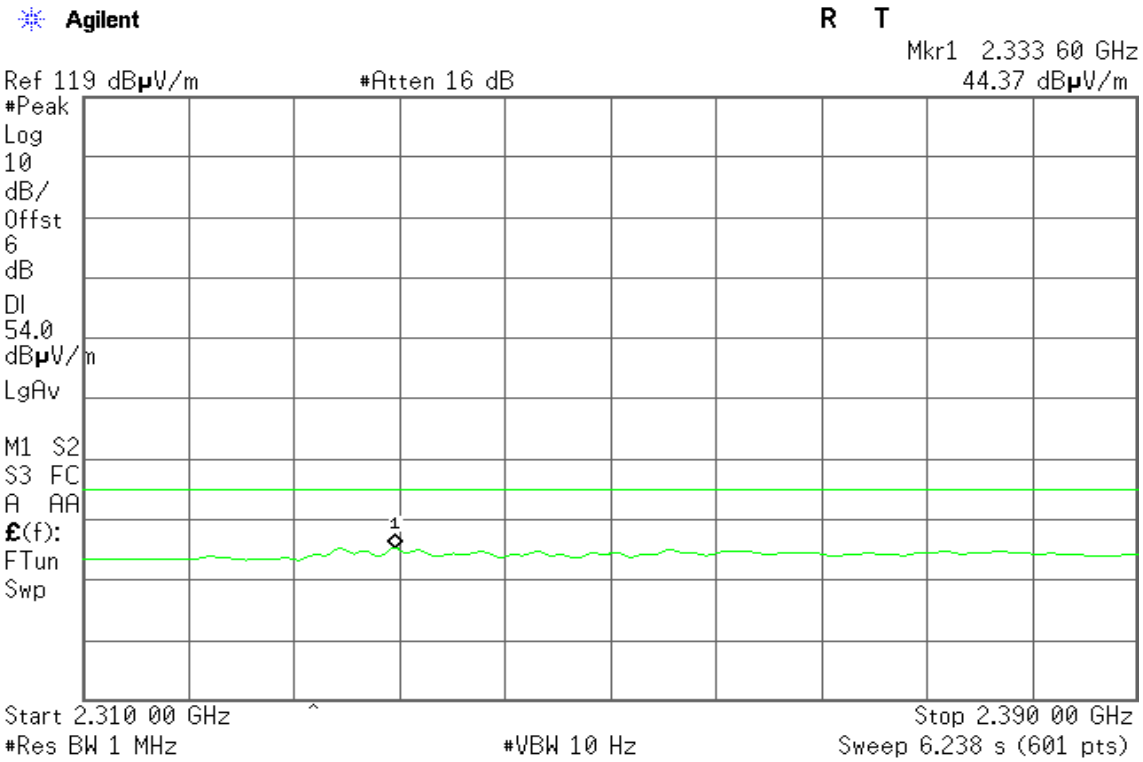
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

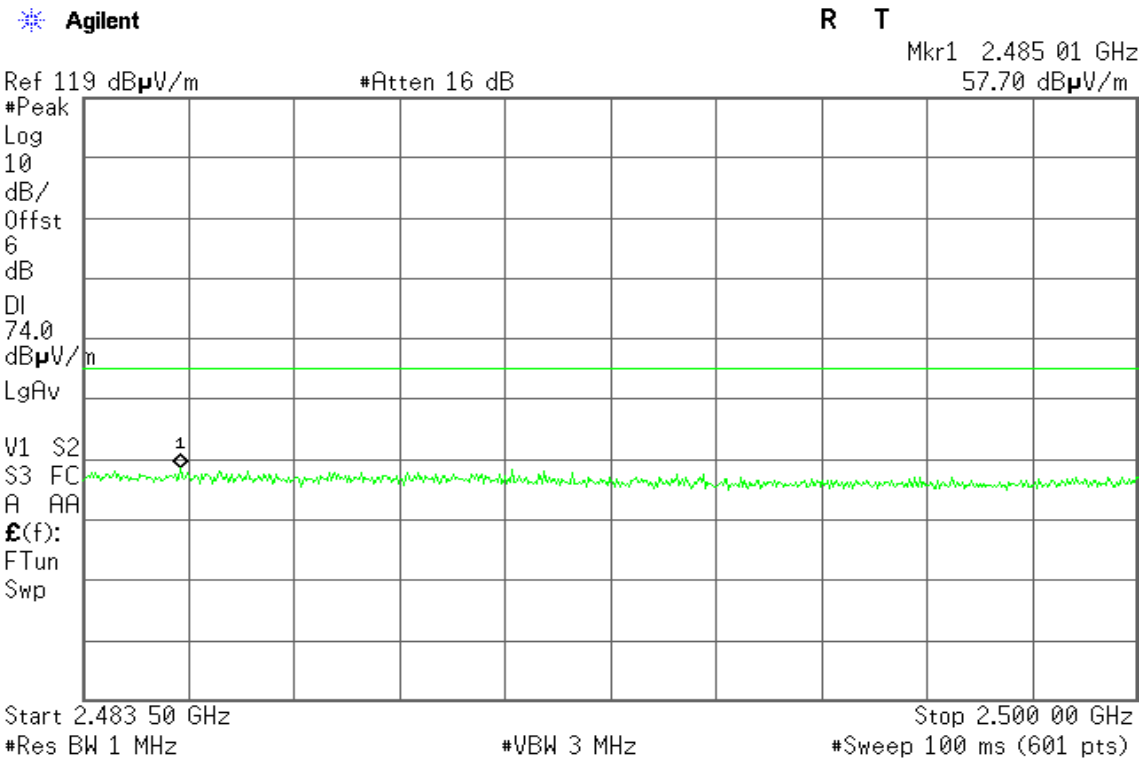


Detector mode: Average **Polarity: Horizontal**

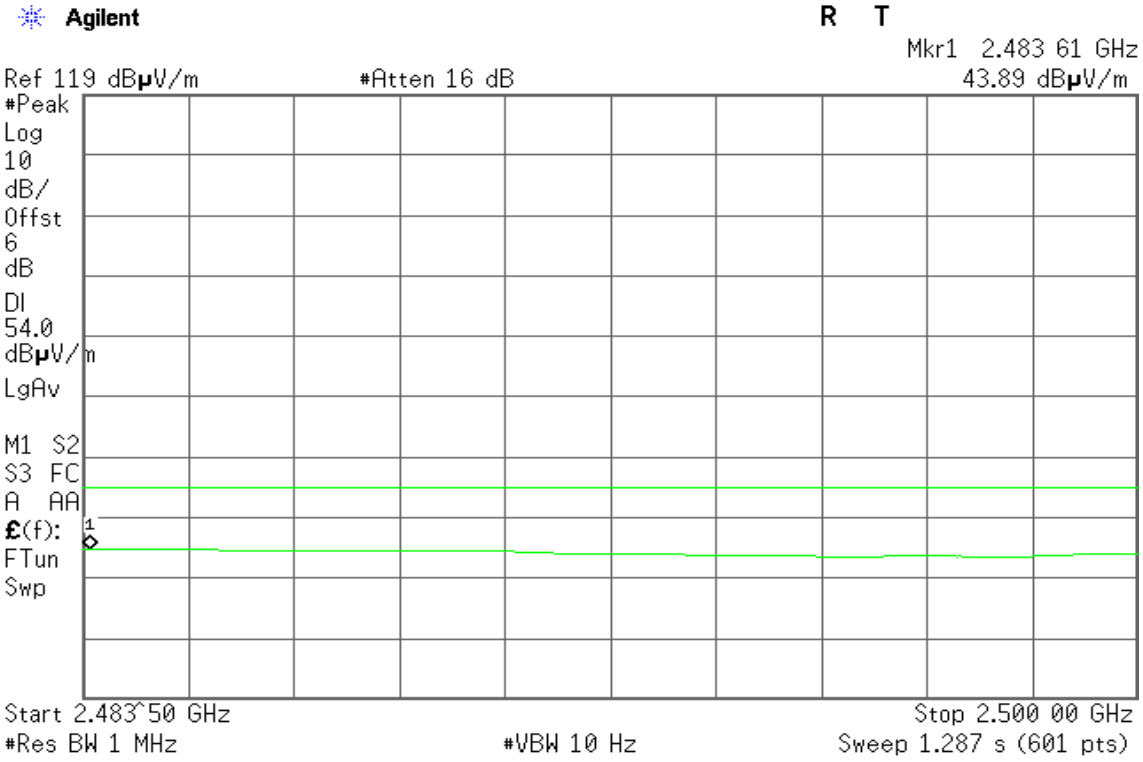


Band Edges (IEEE 802.11b mode / CH High)

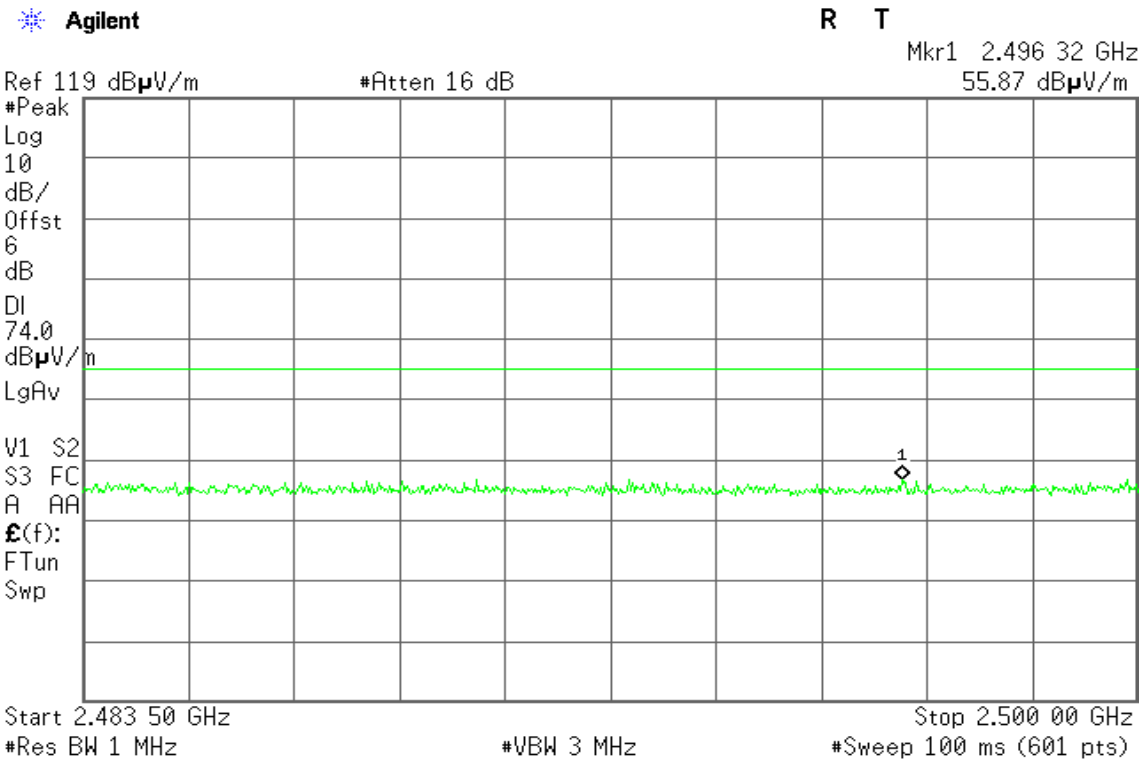
Detector mode: Peak **Polarity: Vertical**



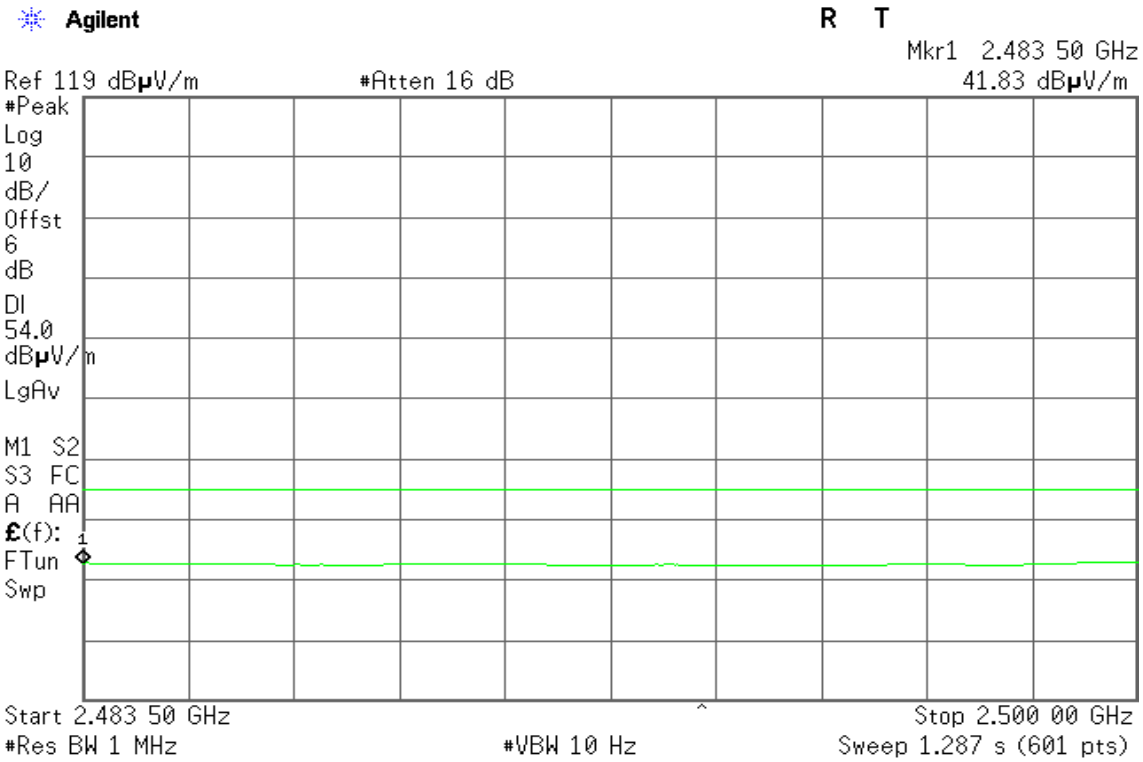
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

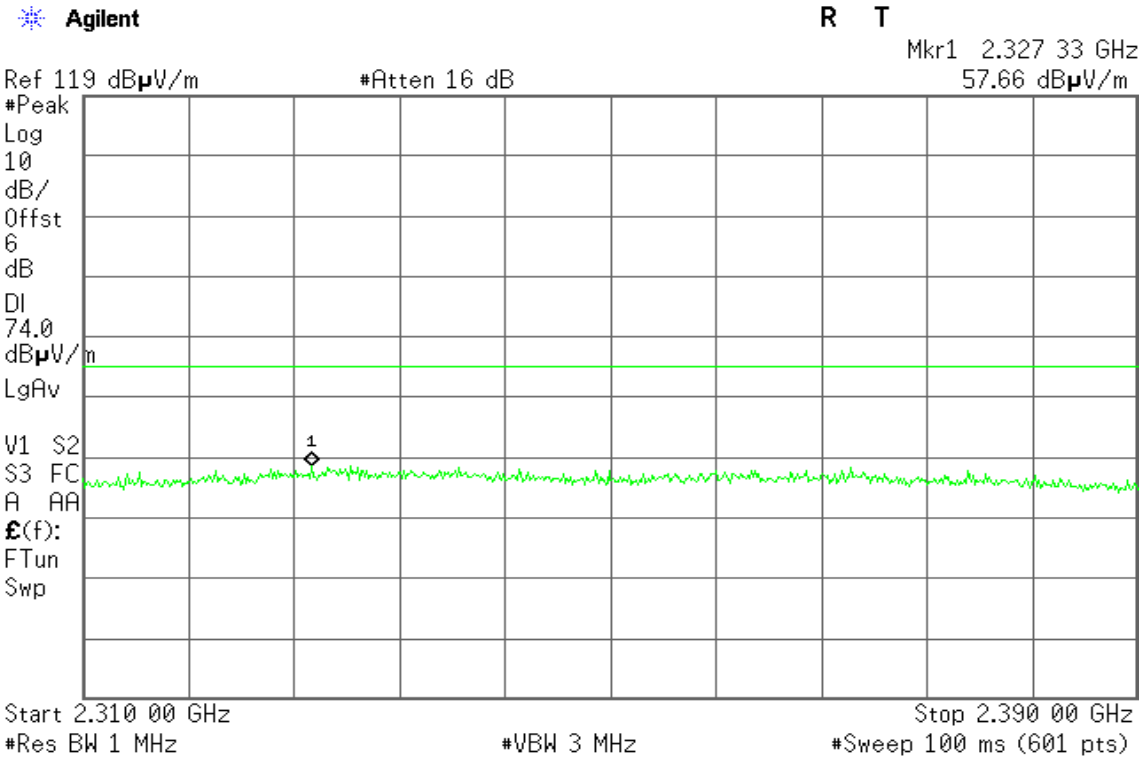


Detector mode: Average **Polarity: Horizontal**

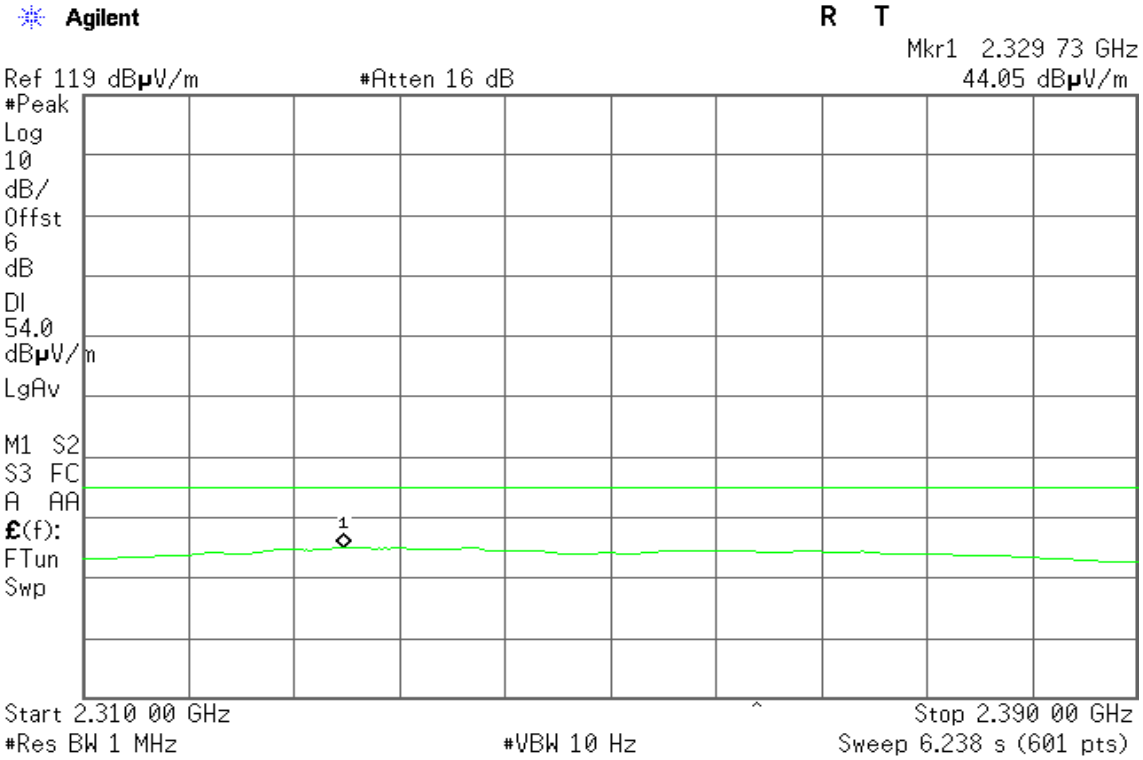


Band Edges (IEEE 802.11g mode / CH Low)

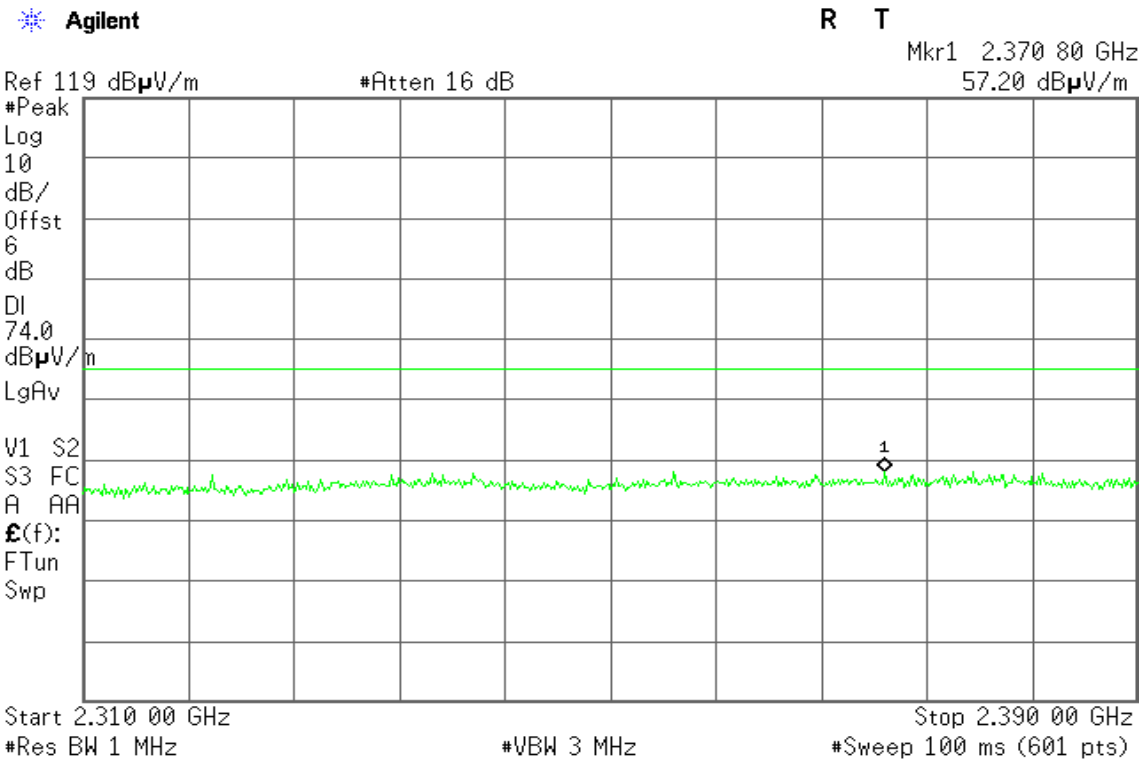
Detector mode: Peak **Polarity: Vertical**



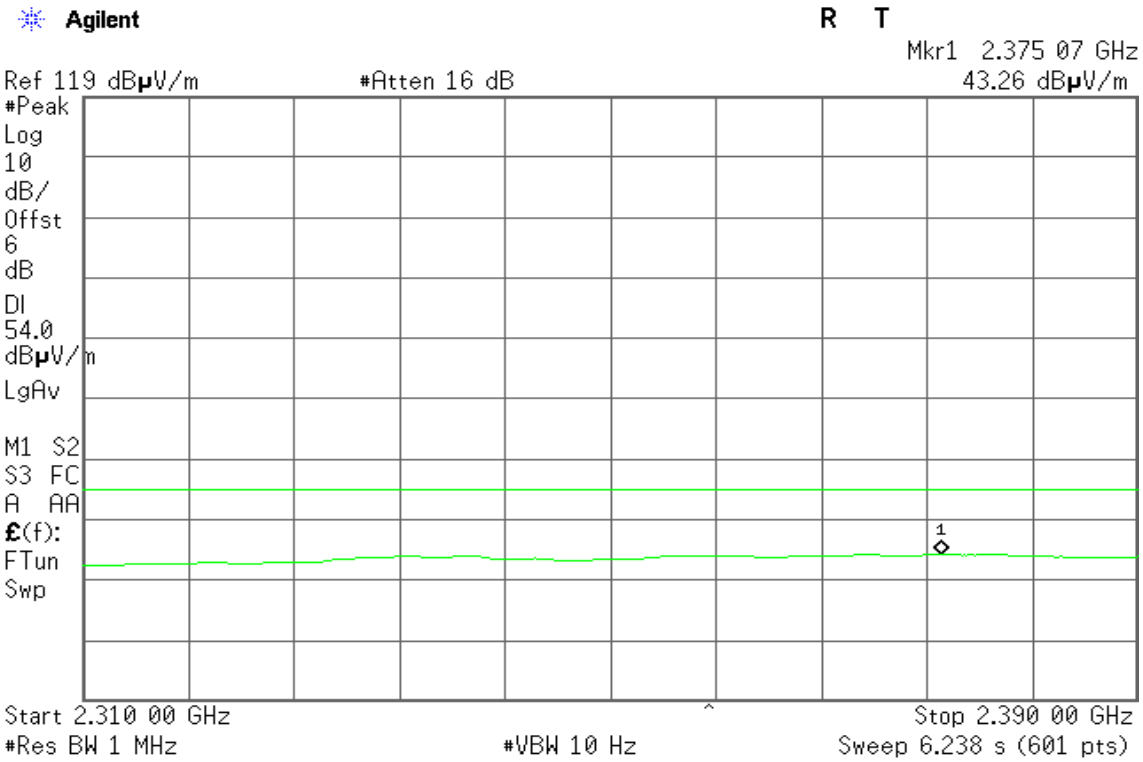
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

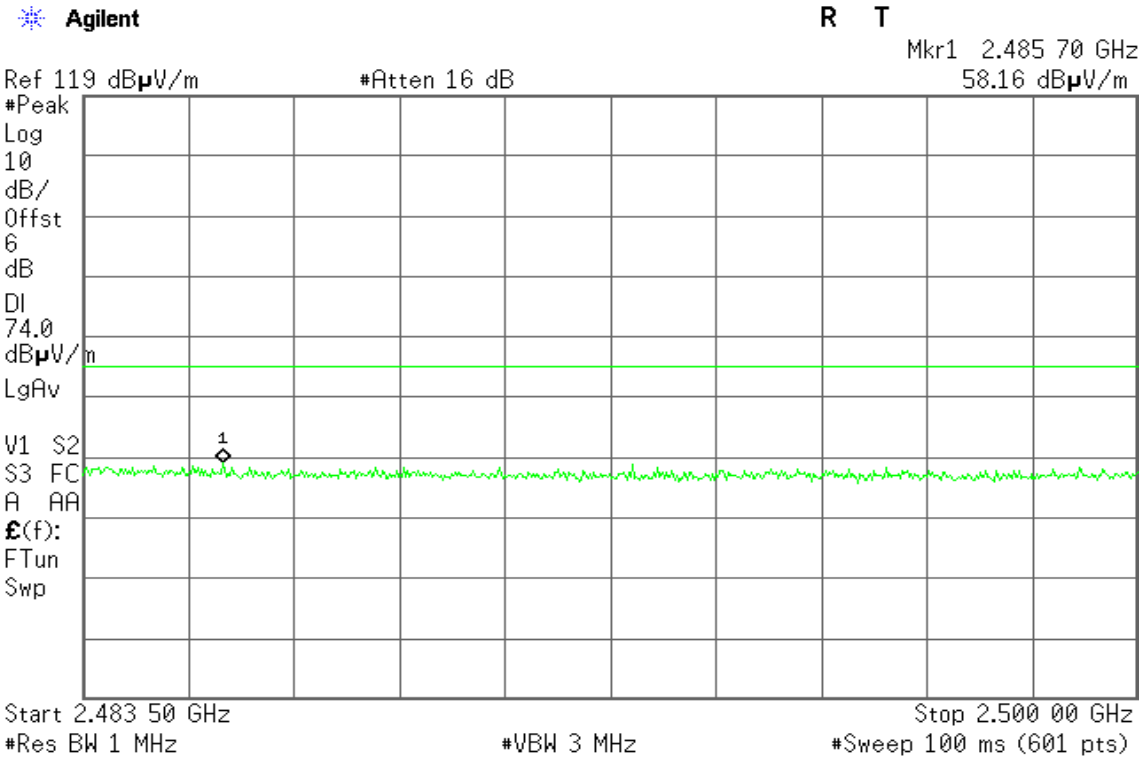


Detector mode: Average **Polarity: Horizontal**

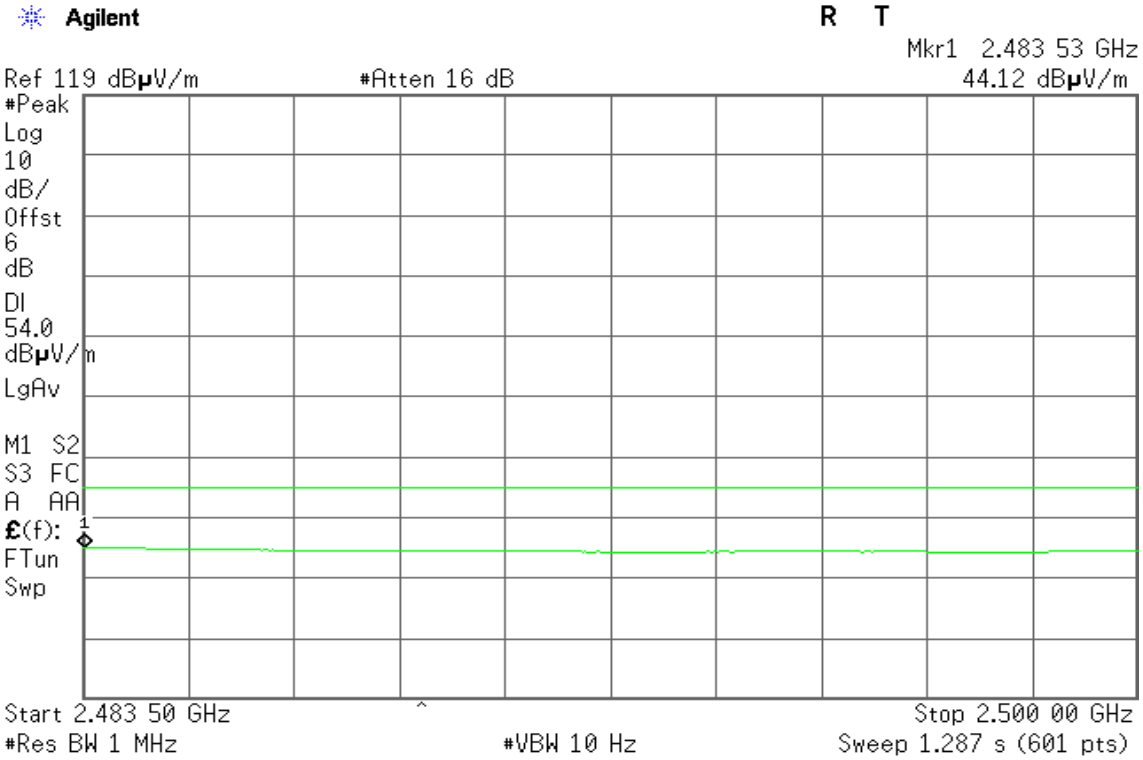


Band Edges (IEEE 802.11g mode / CH High)

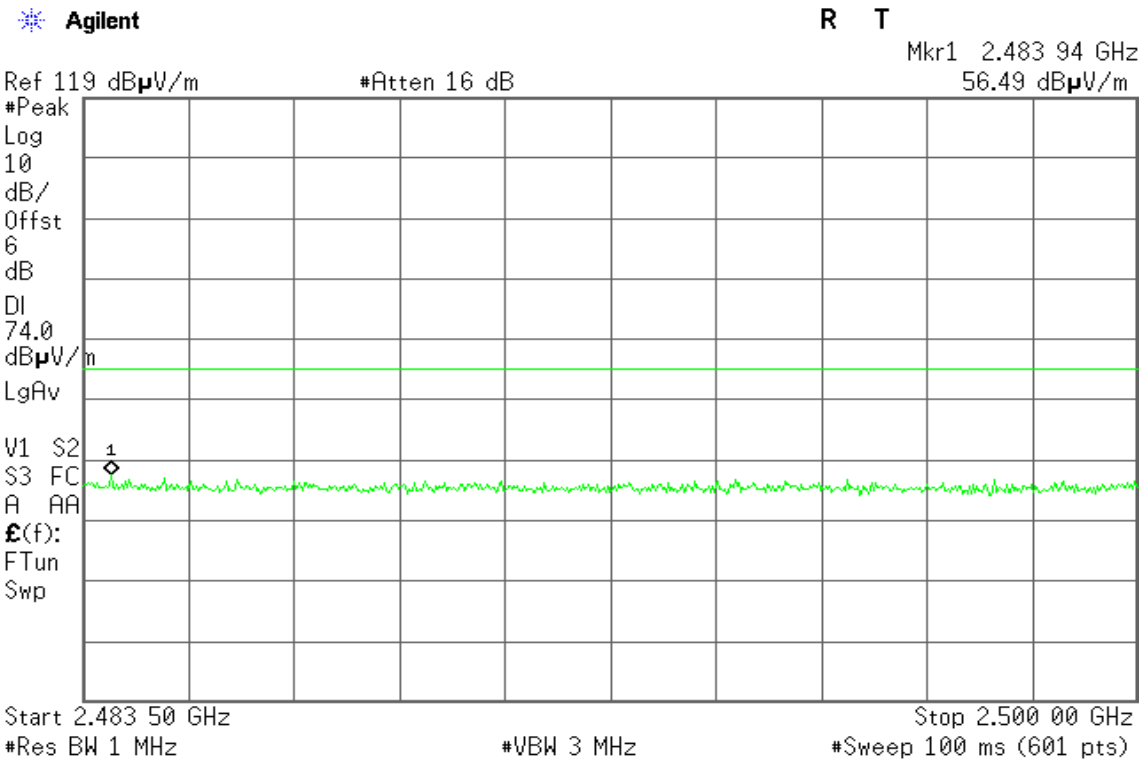
Detector mode: Peak **Polarity: Vertical**



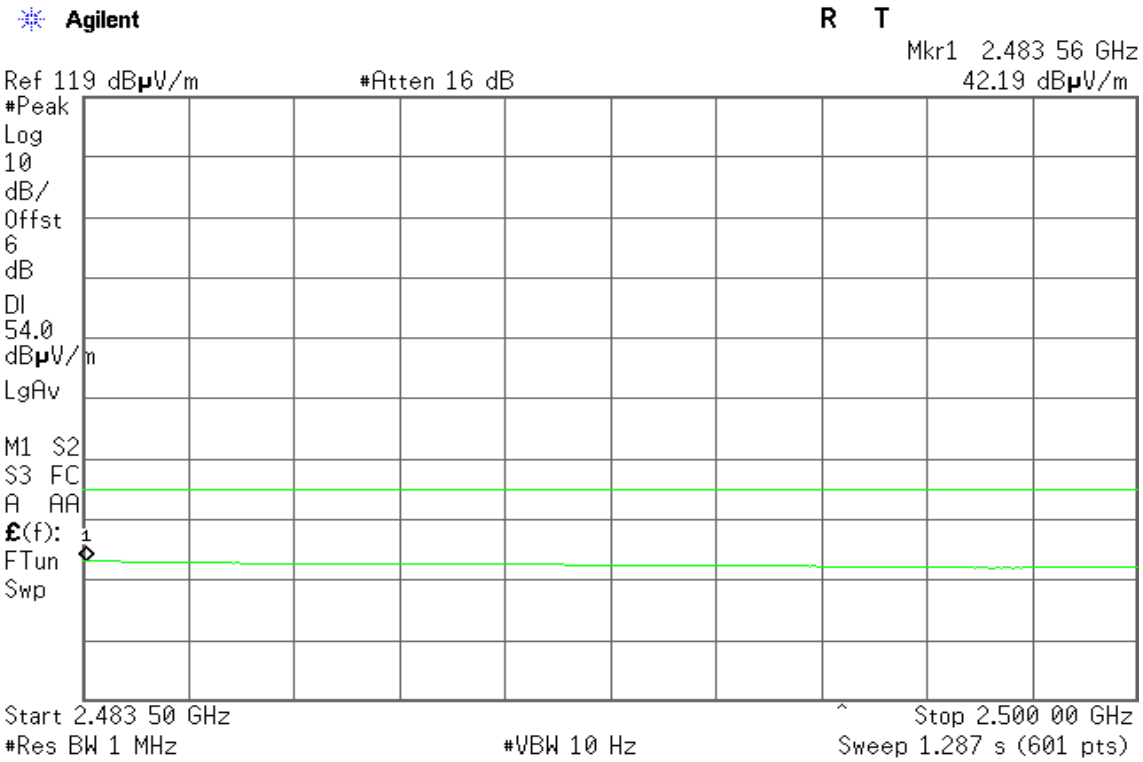
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

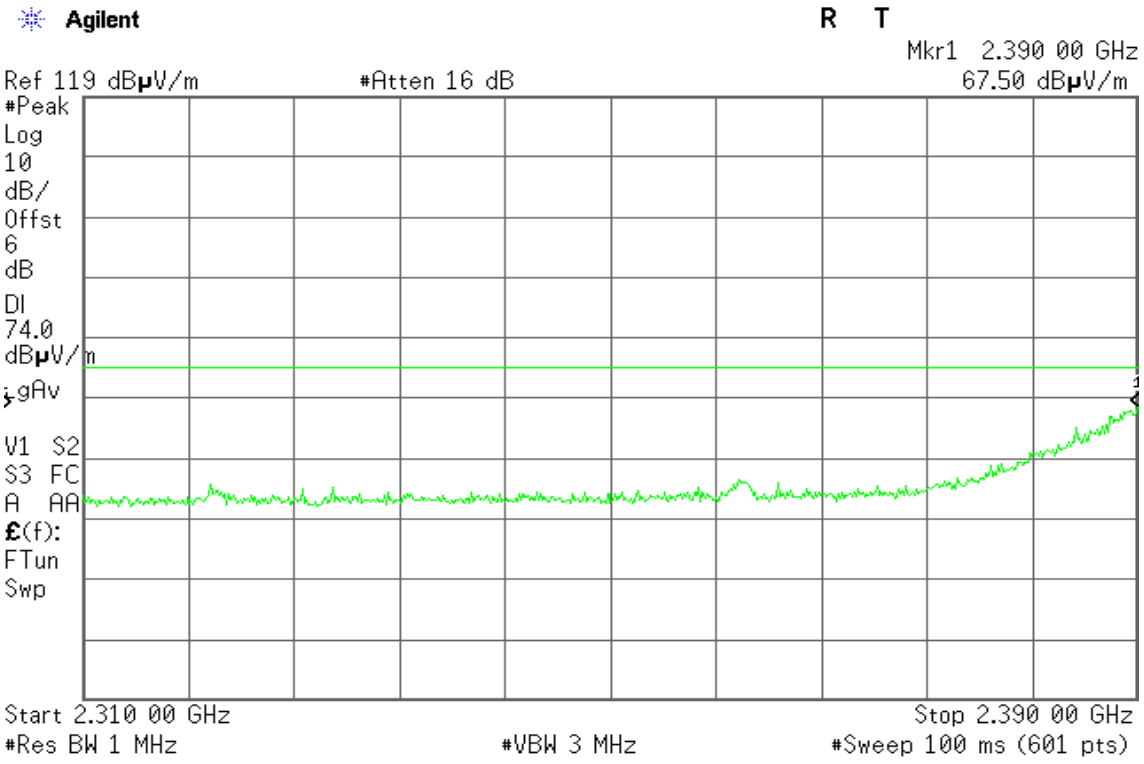


Detector mode: Average **Polarity: Horizontal**

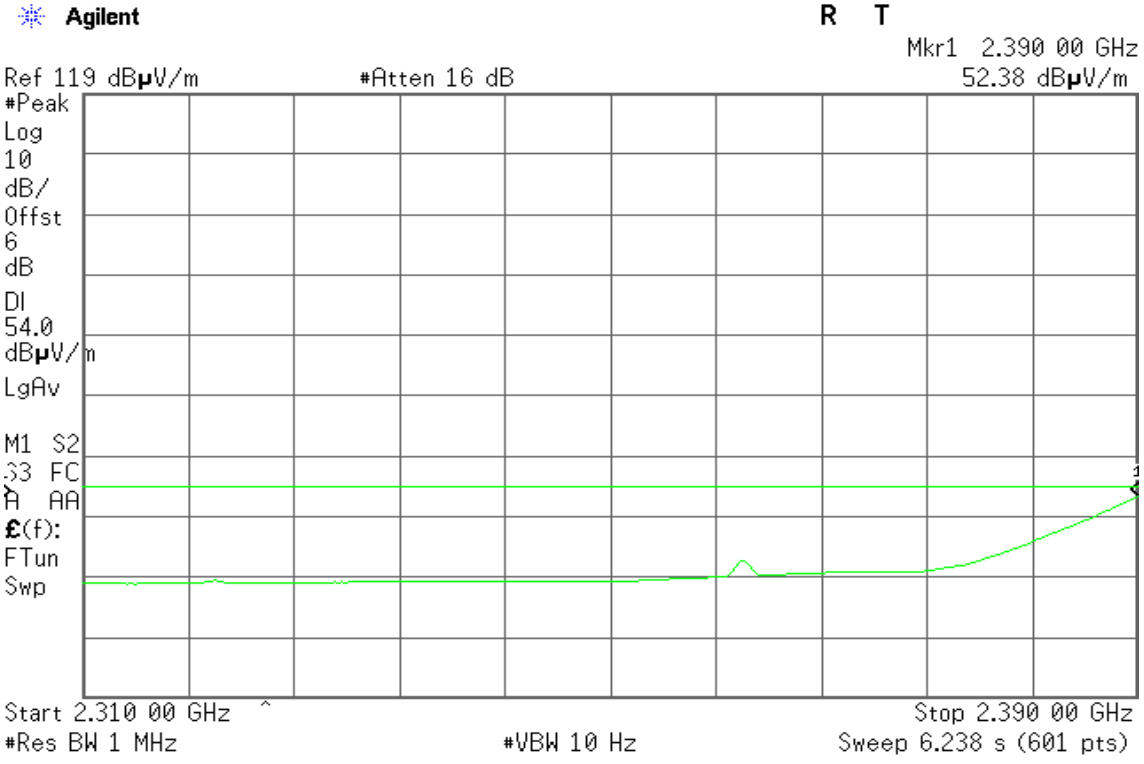


Band Edges (IEEE 802.11n HT 20 MHz mode / CH Low)

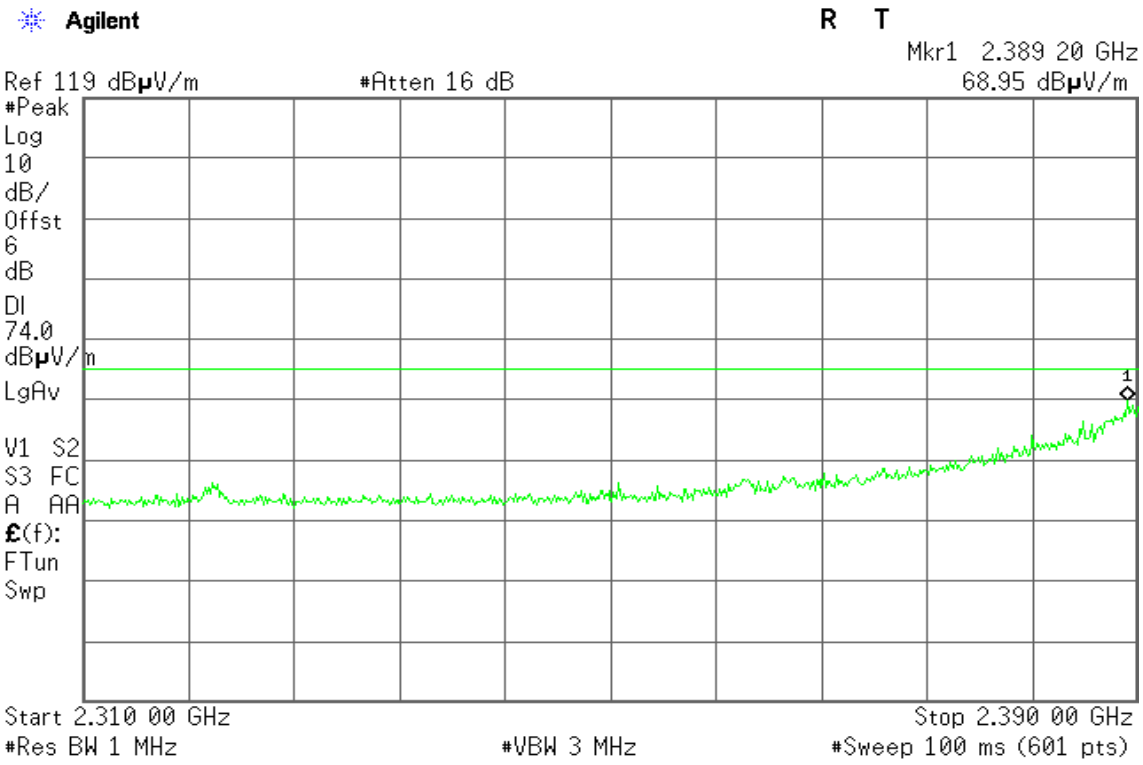
Detector mode: Peak **Polarity: Vertical**



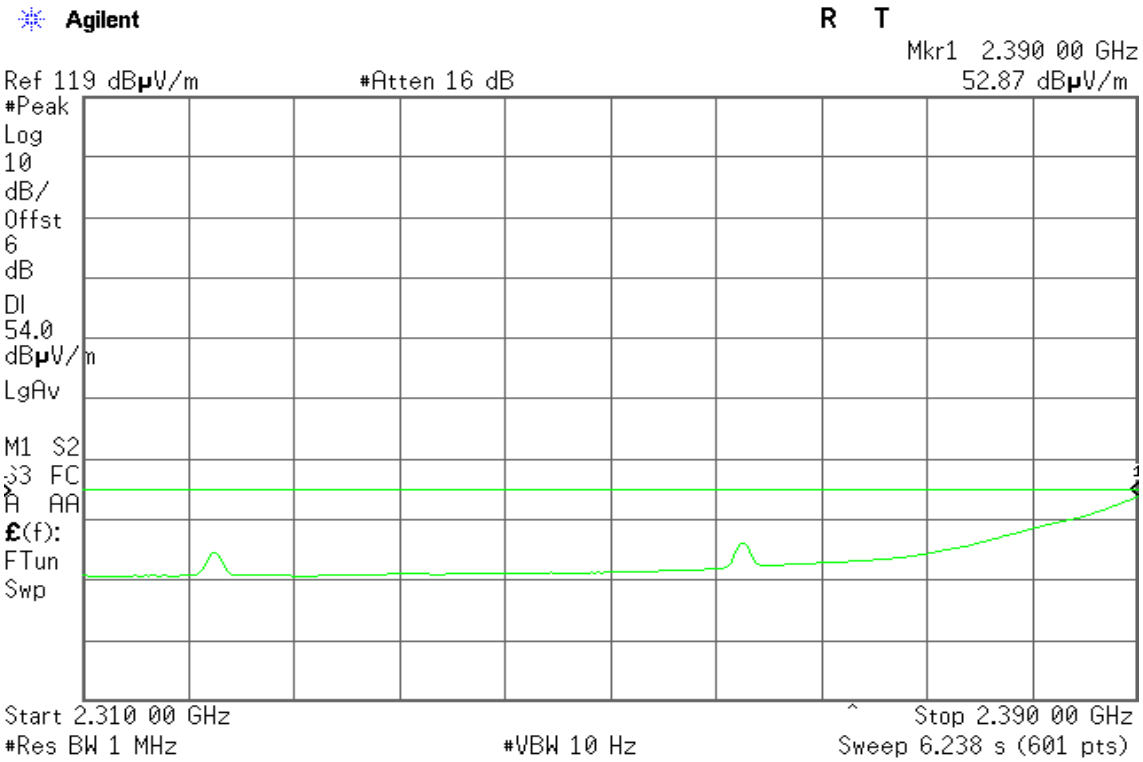
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

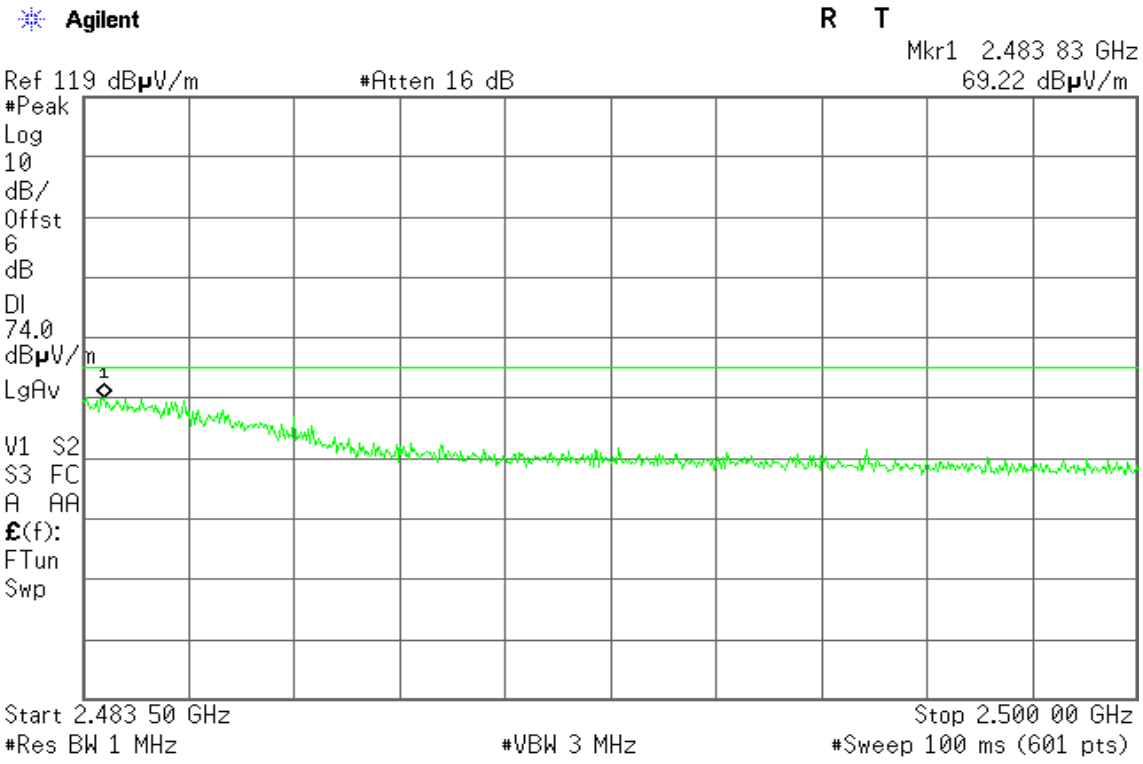


Detector mode: Average **Polarity: Horizontal**

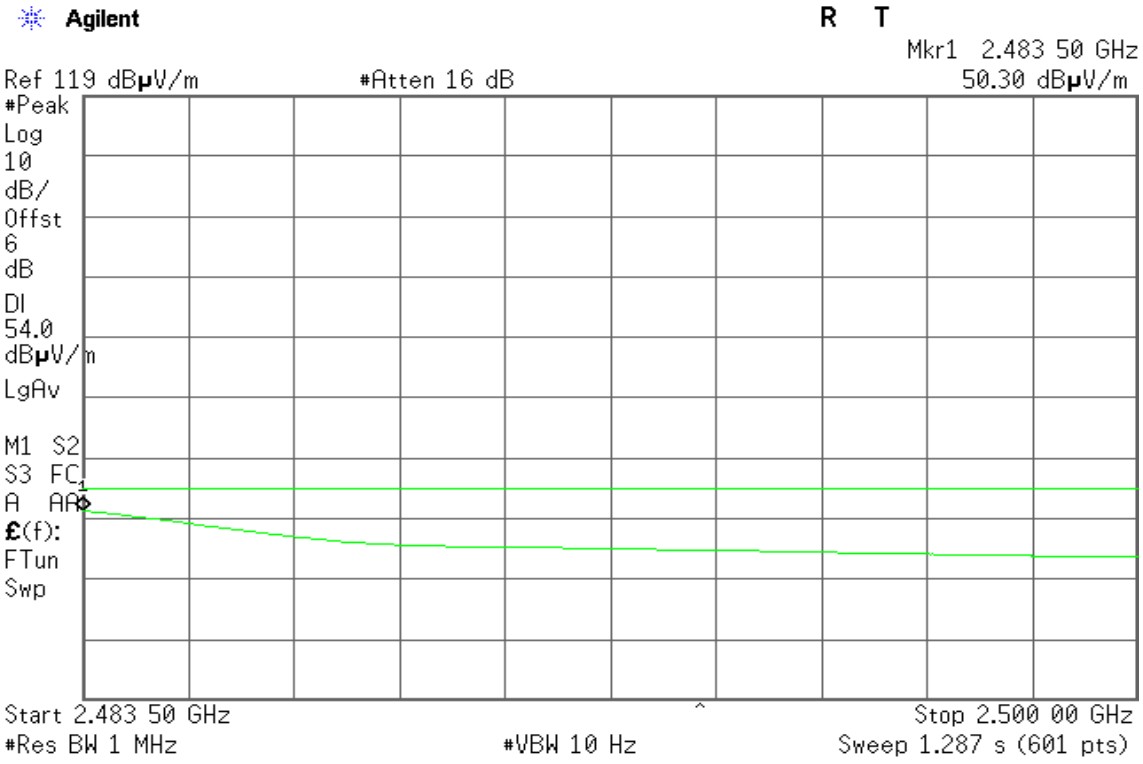


Band Edges (IEEE 802.11n HT 20 MHz mode / CH High)

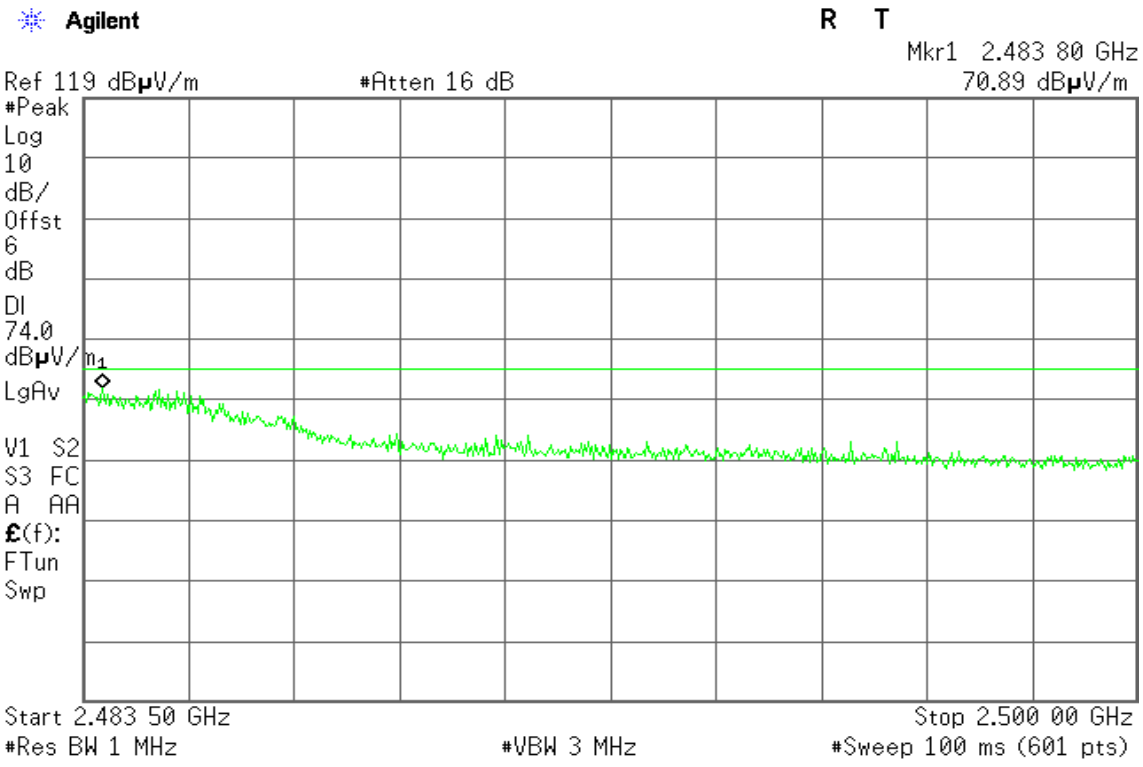
Detector mode: Peak **Polarity: Vertical**



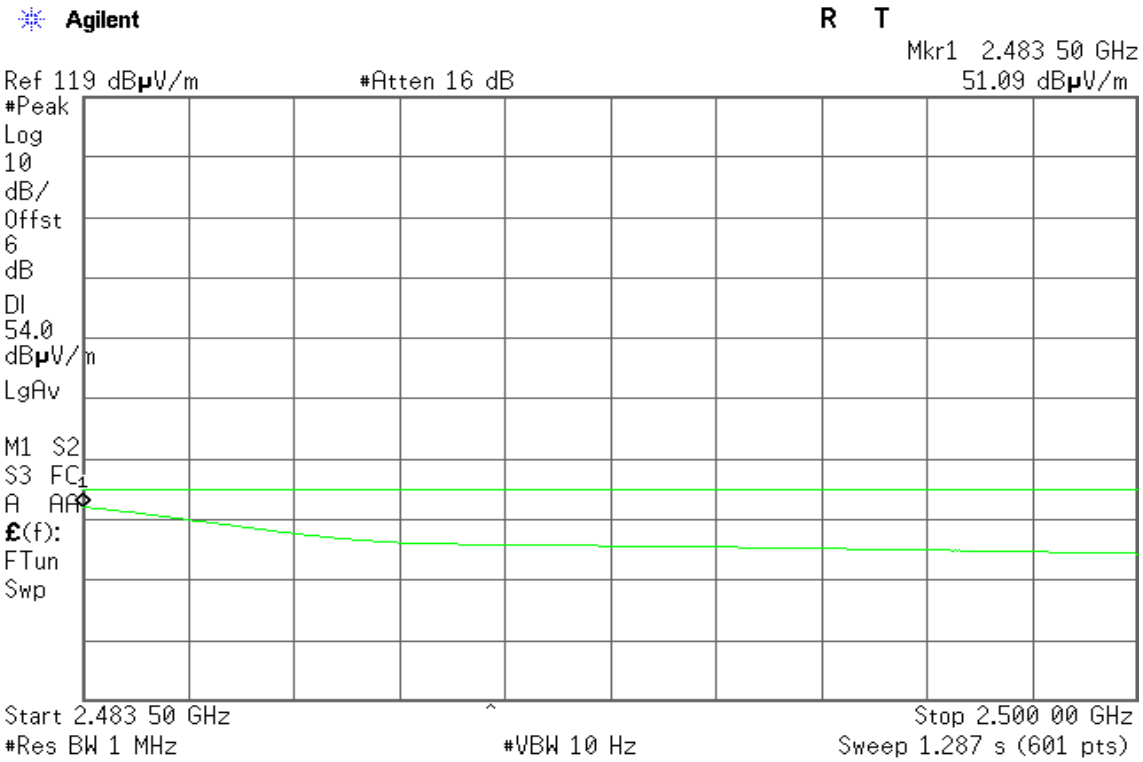
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

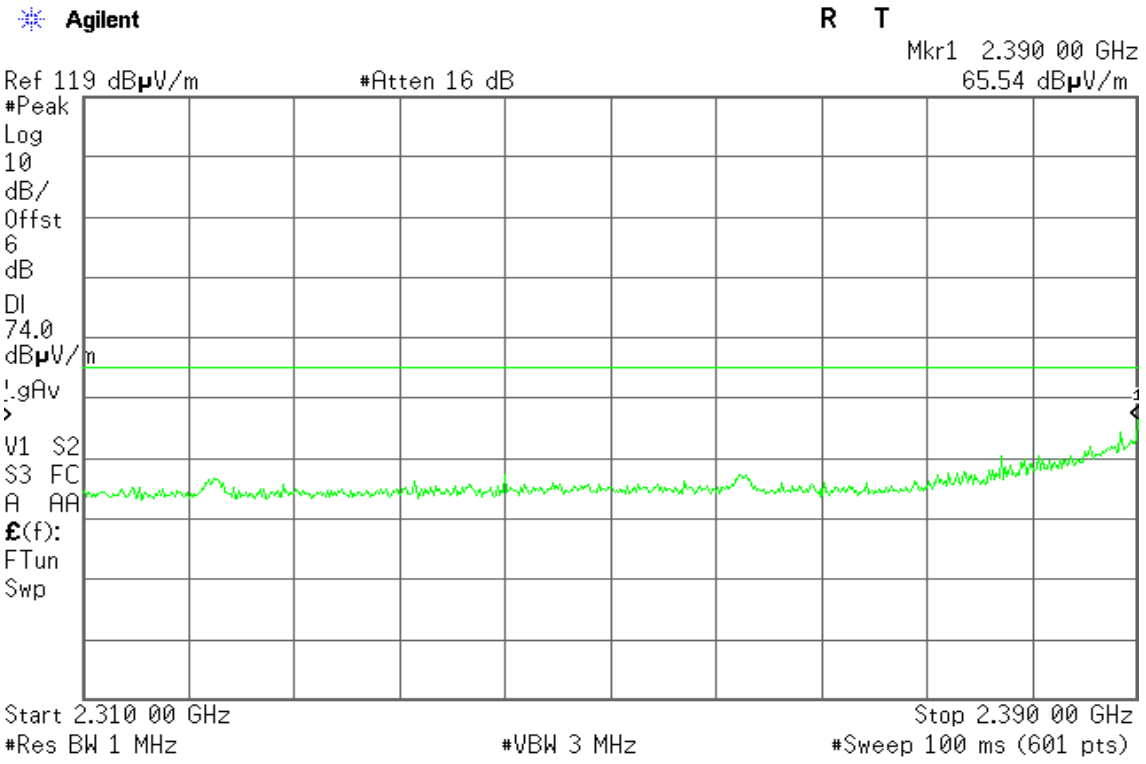


Detector mode: Average **Polarity: Horizontal**

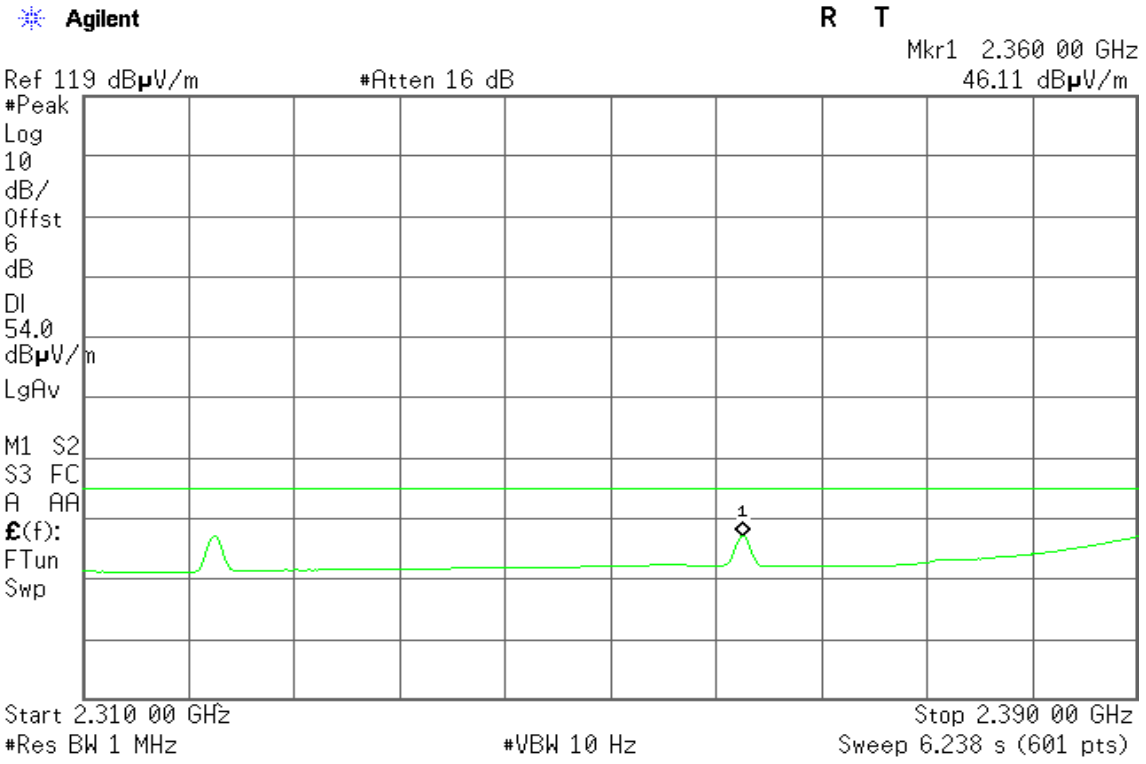


Band Edges (IEEE 802.11n HT 40 MHz mode / CH Low)

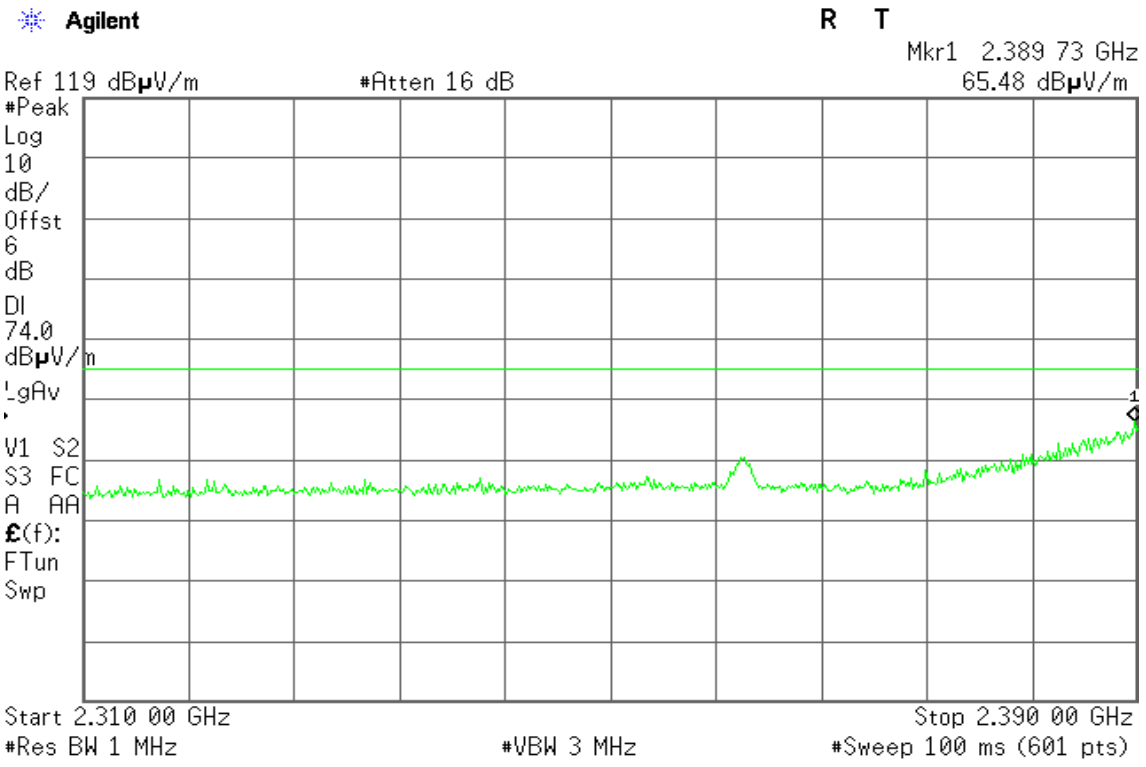
Detector mode: Peak **Polarity: Vertical**



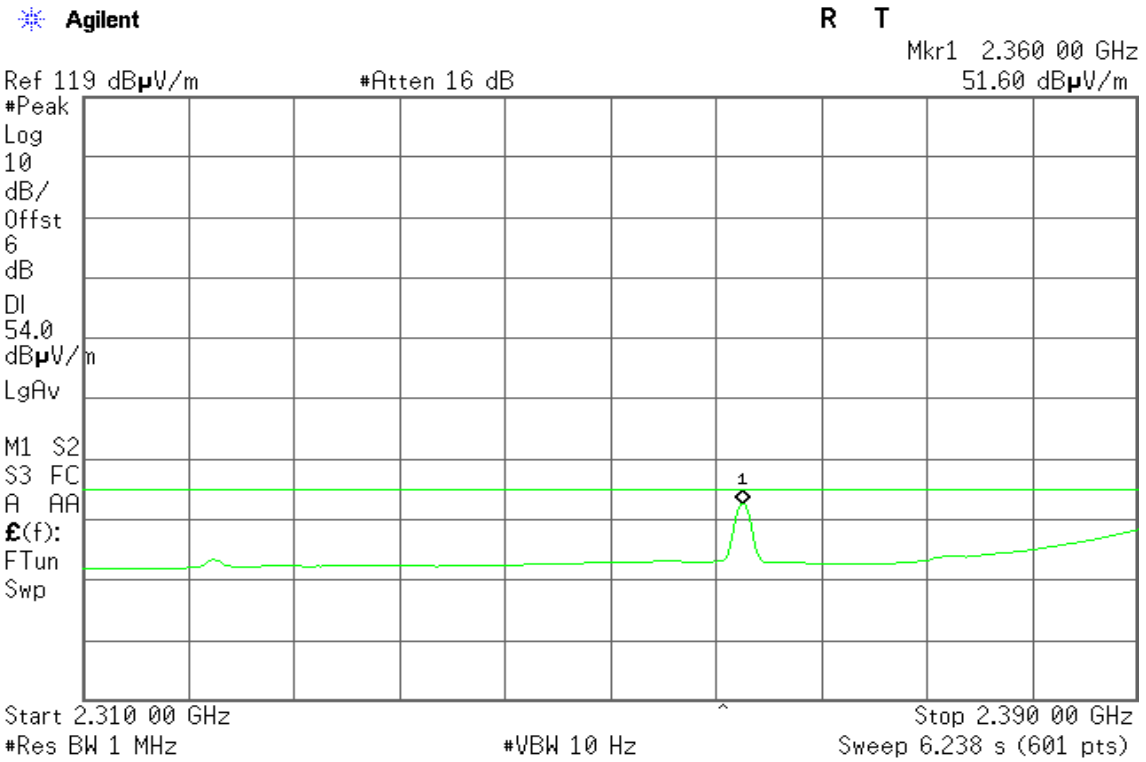
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

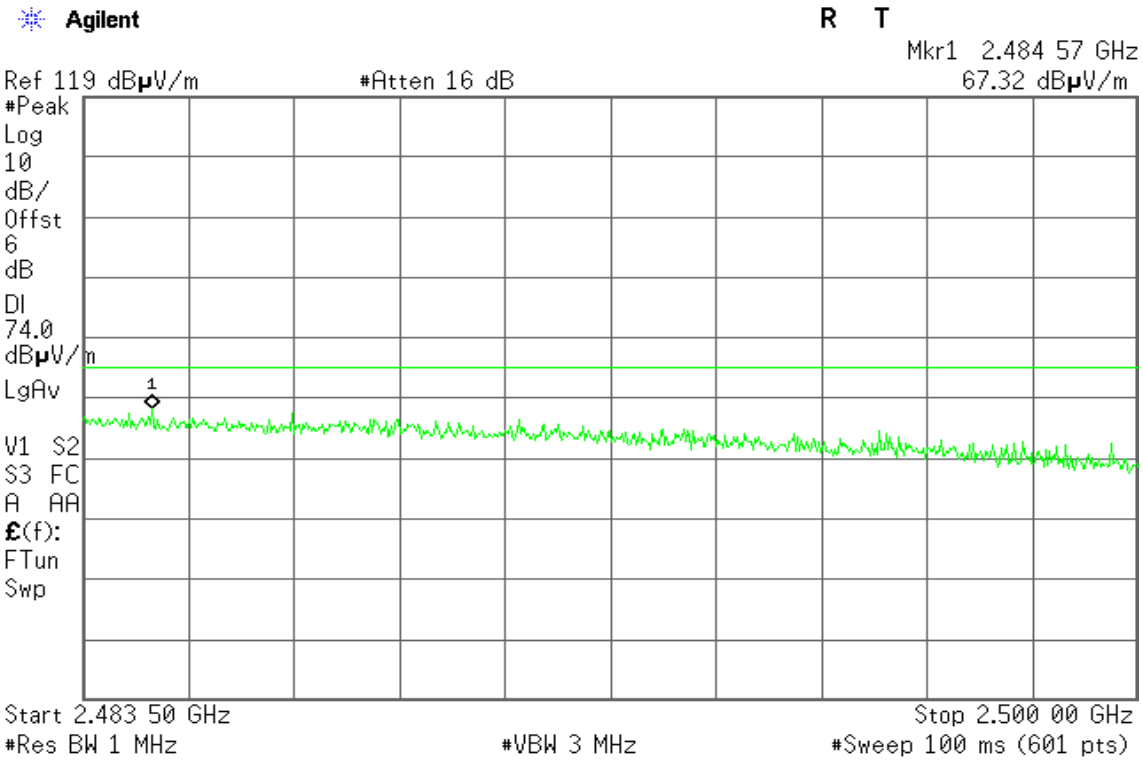


Detector mode: Average **Polarity: Horizontal**

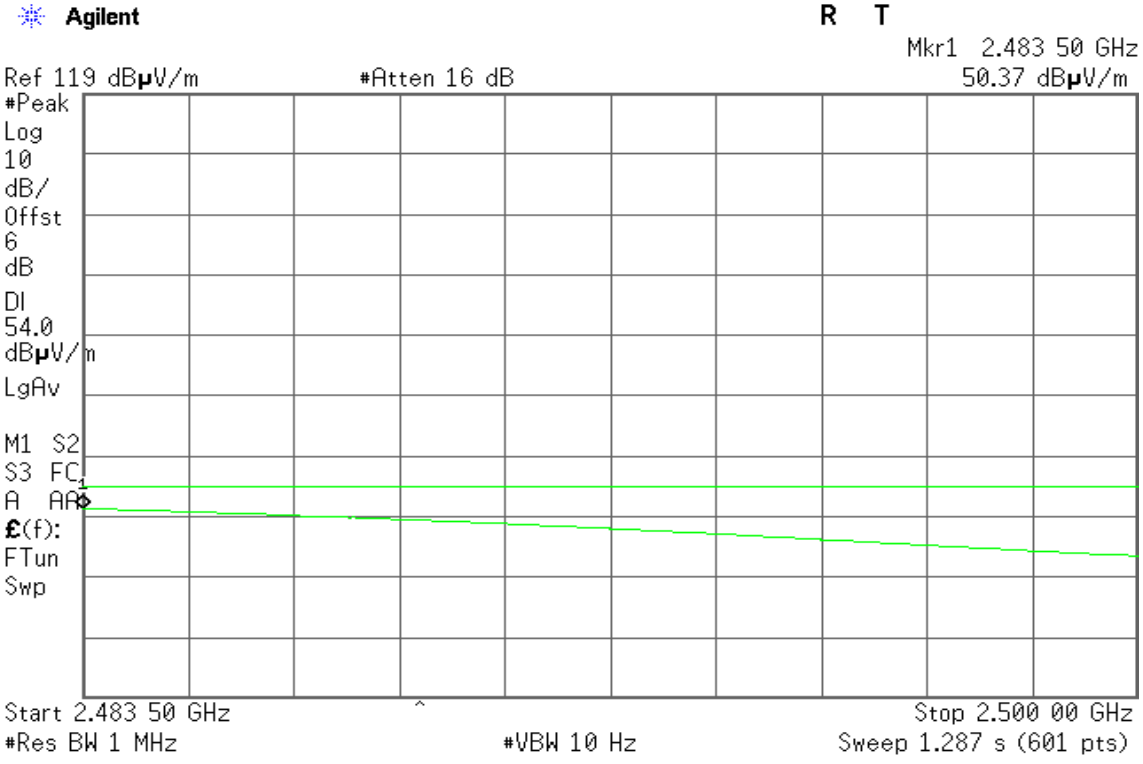


Band Edges (IEEE 802.11n HT 40 MHz mode / CH High)

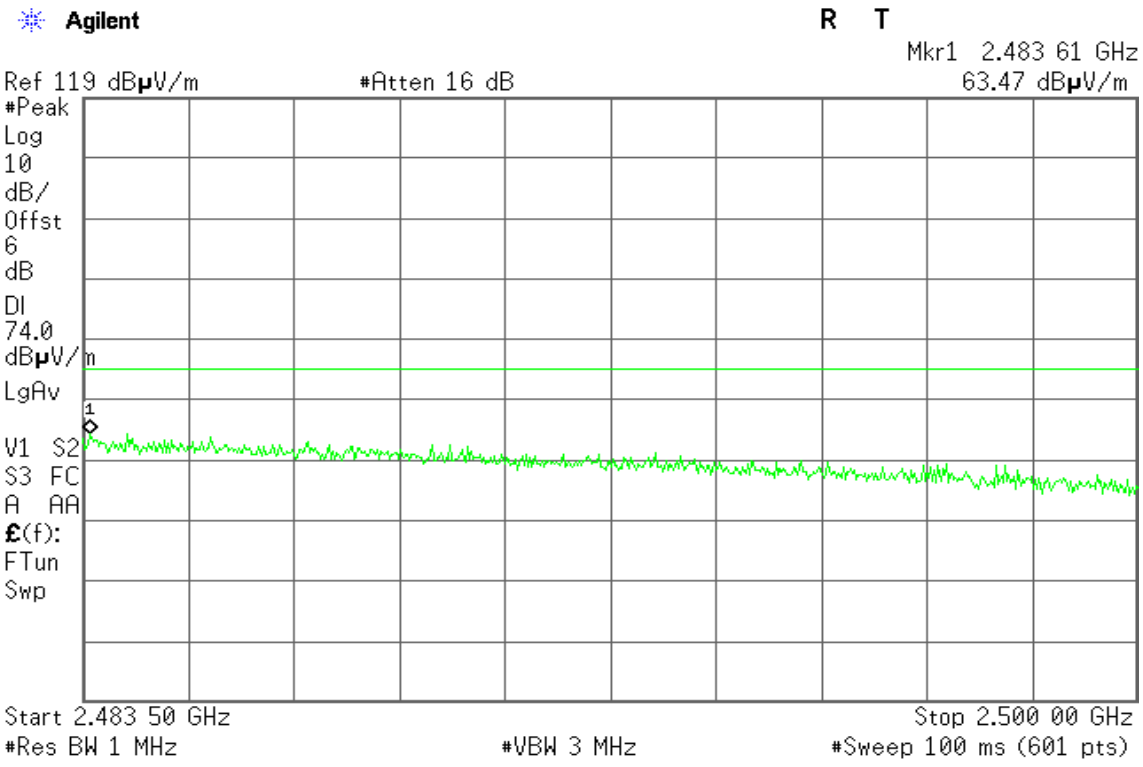
Detector mode: Peak **Polarity: Vertical**



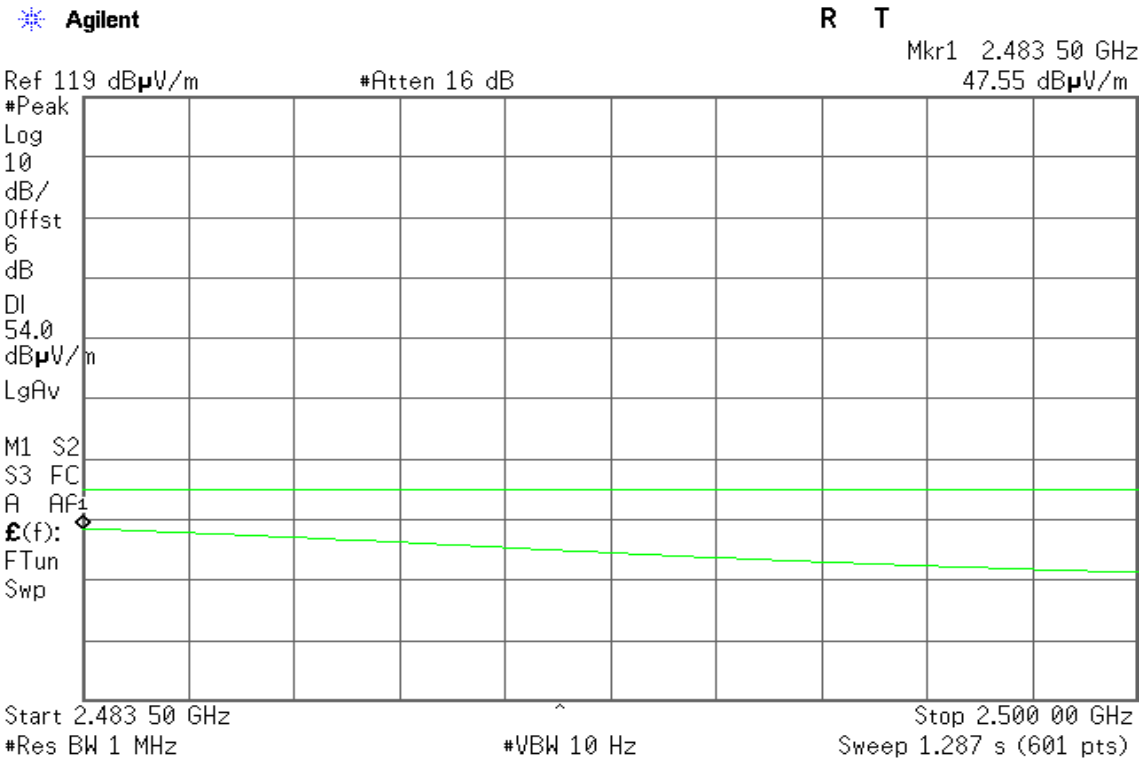
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



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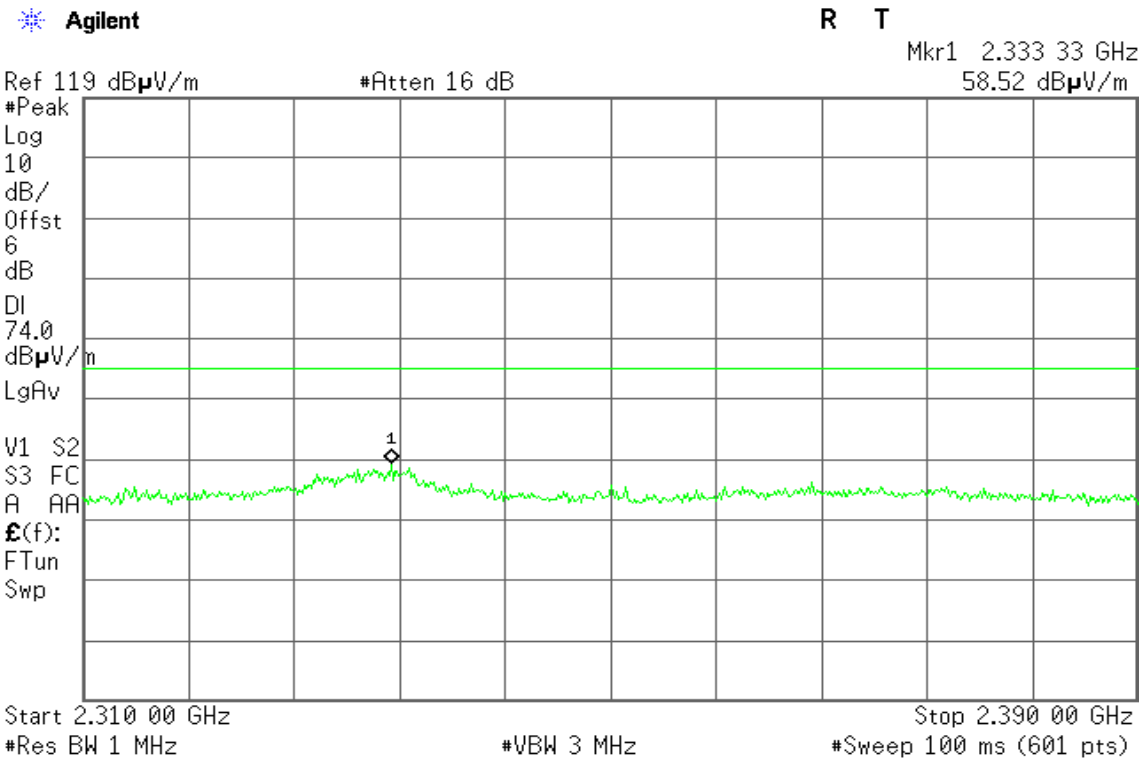
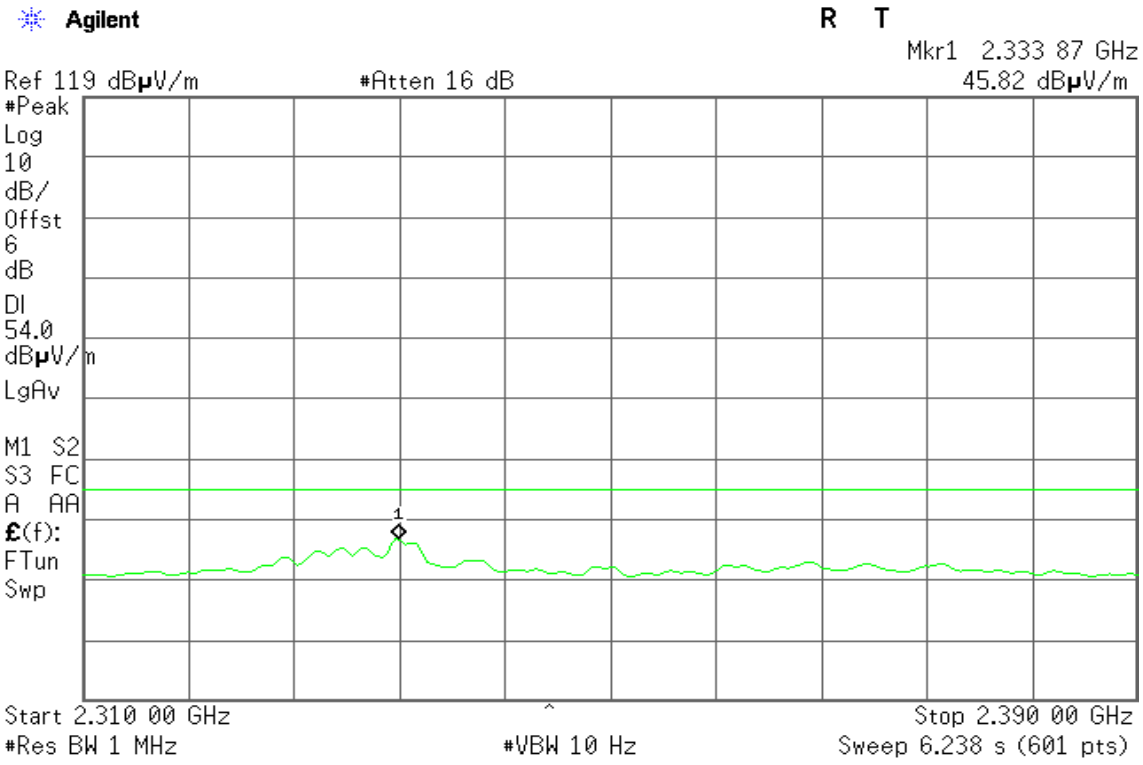
Band Edges (IEEE 802.11b mode / CH Low)

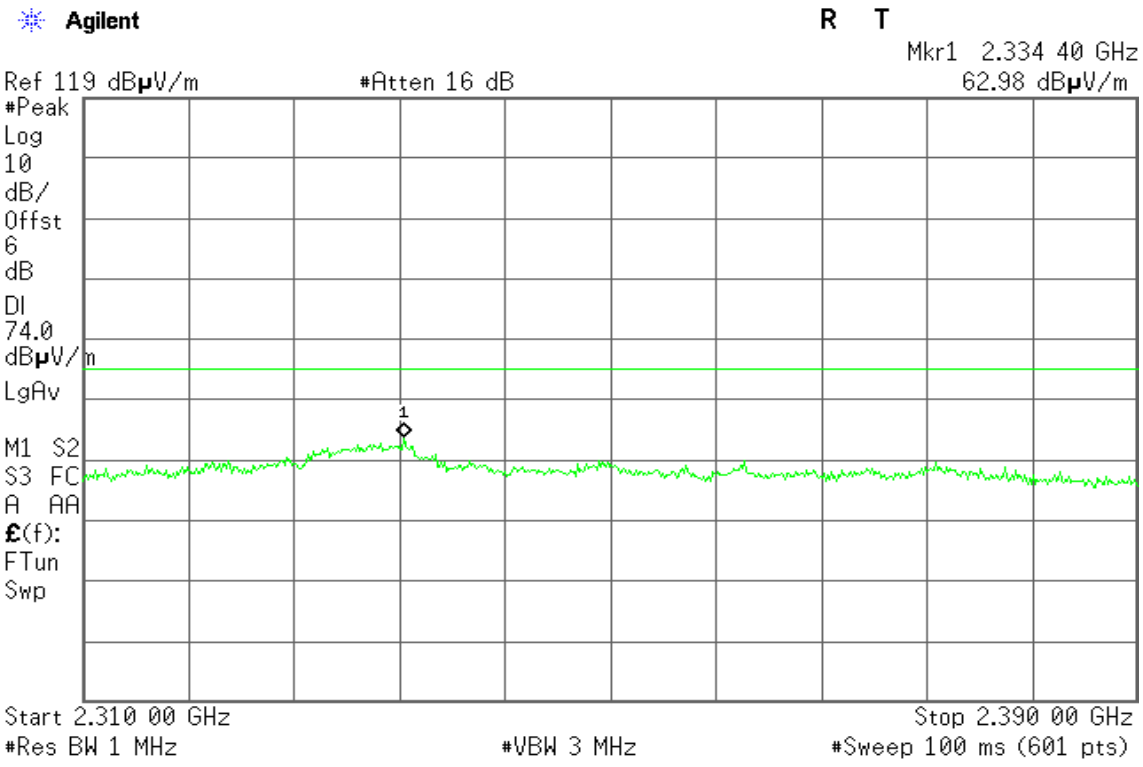
Detector mode: Peak **Polarity: Vertical**



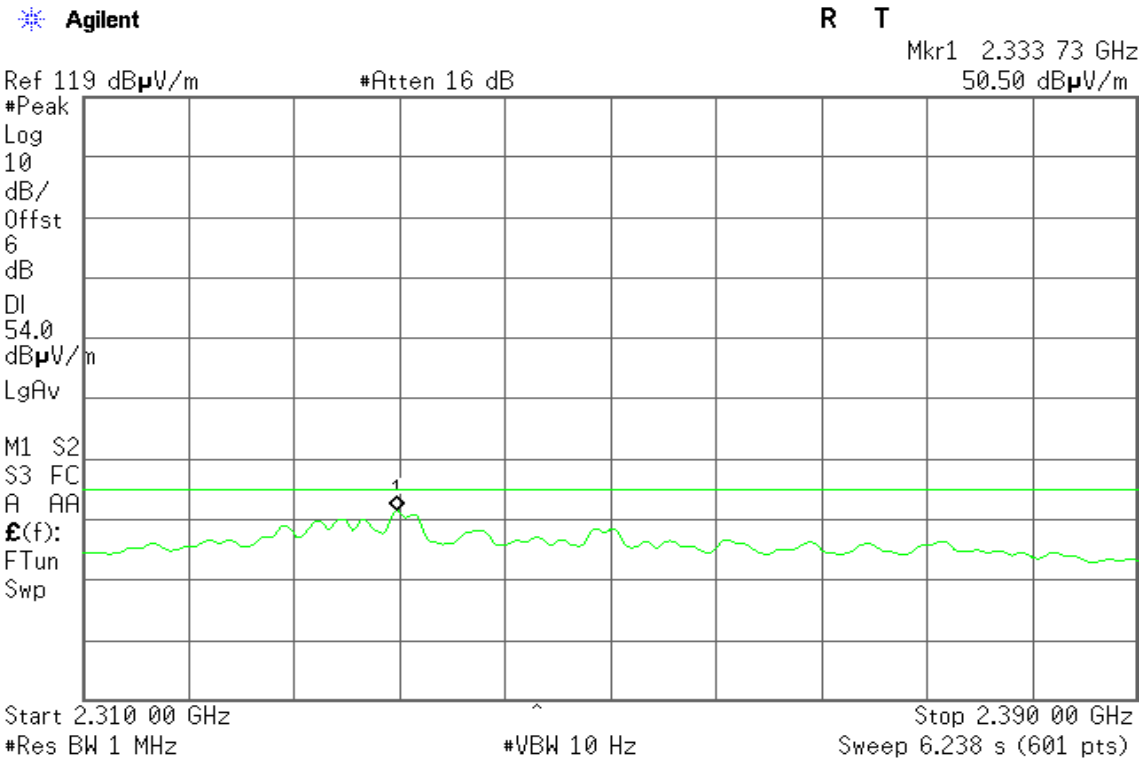
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

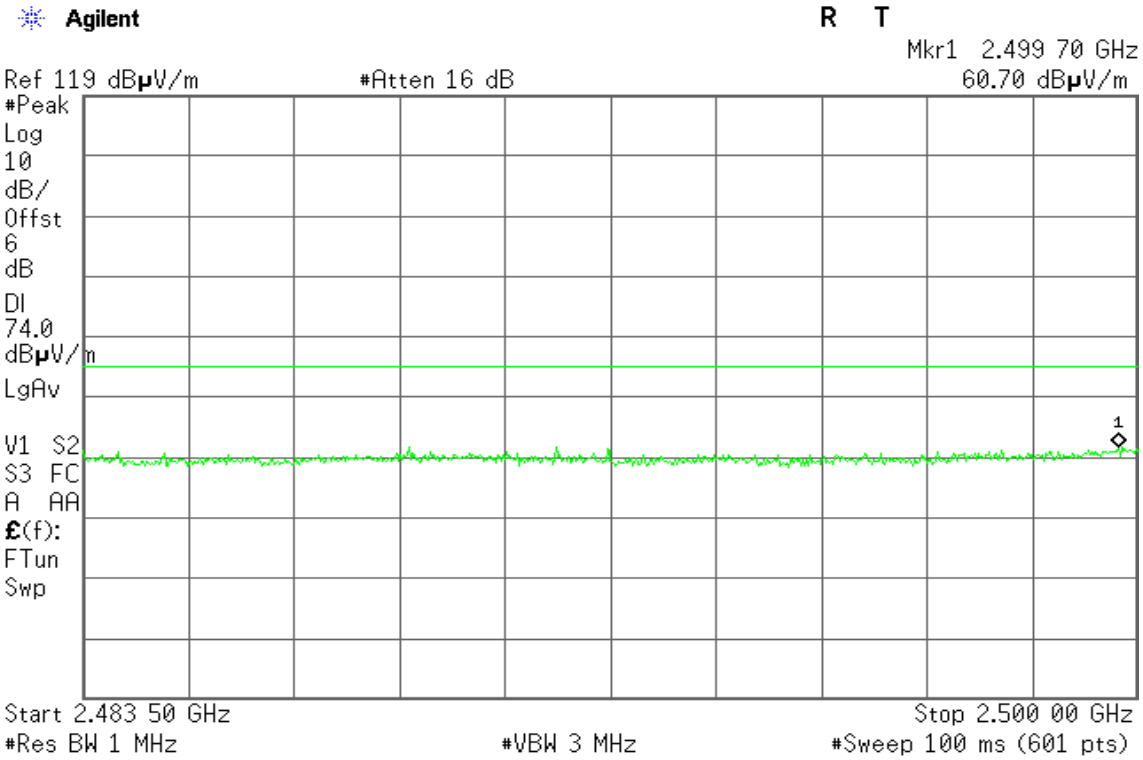


Detector mode: Average **Polarity: Horizontal**

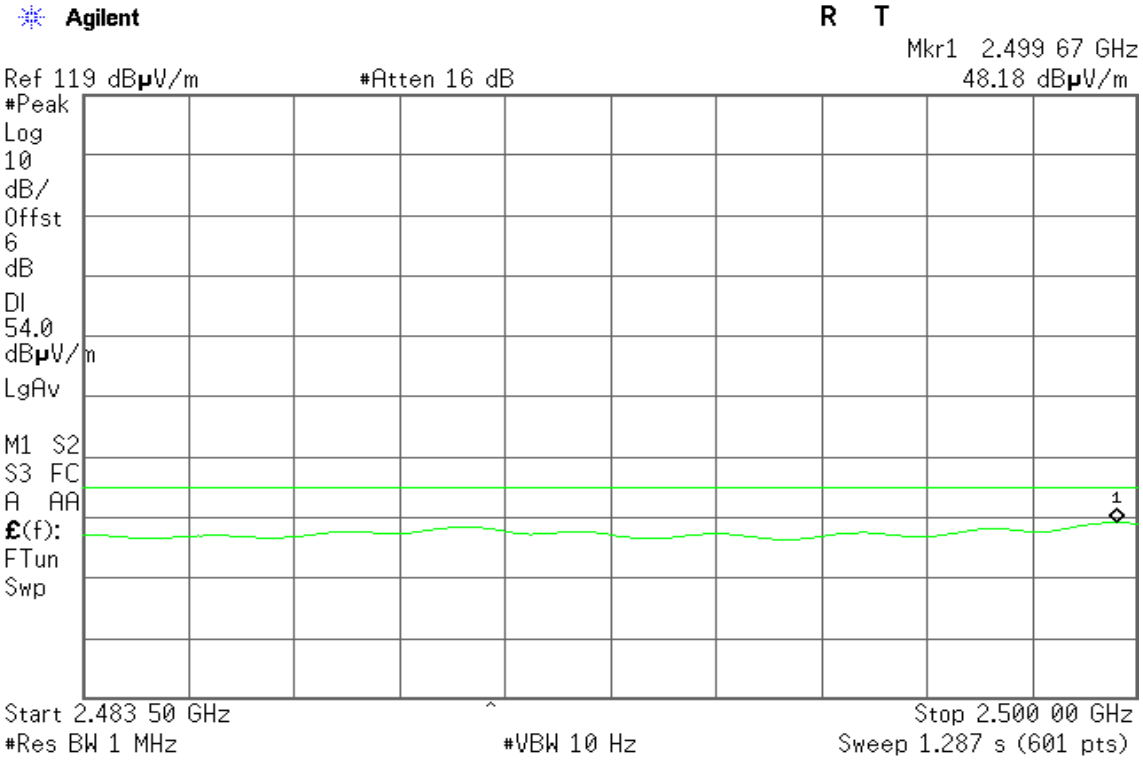


Band Edges (IEEE 802.11b mode / CH High)

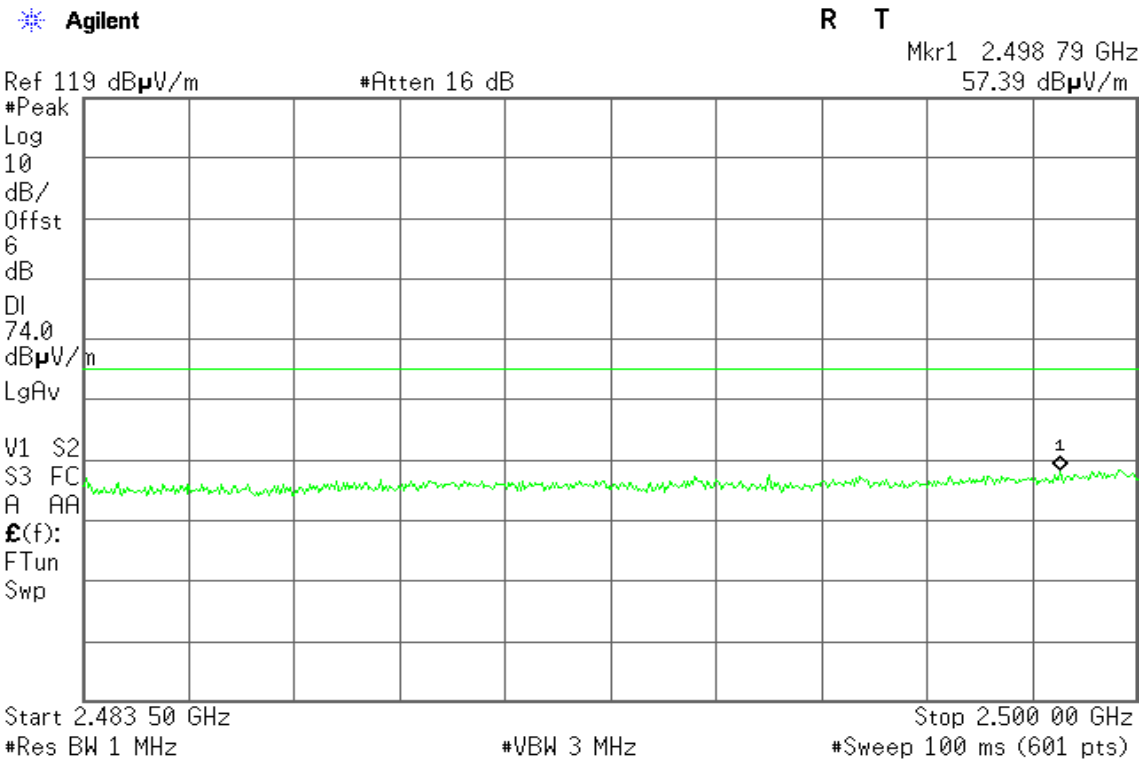
Detector mode: Peak **Polarity: Vertical**



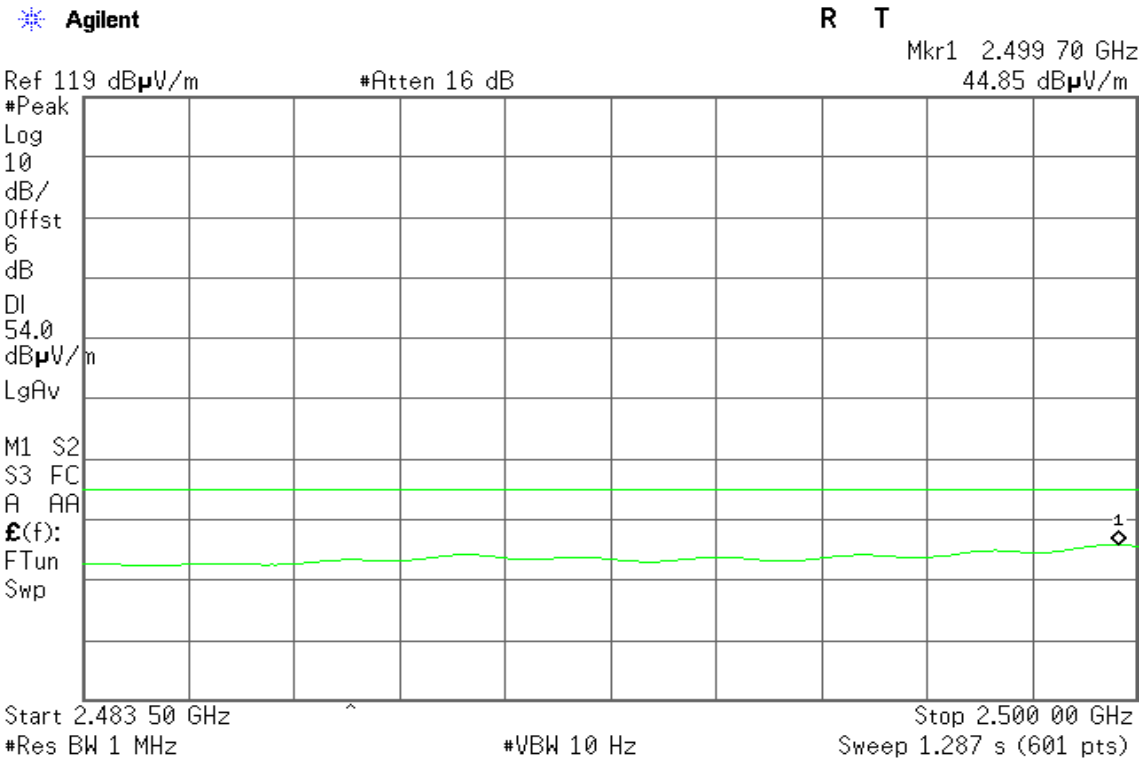
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

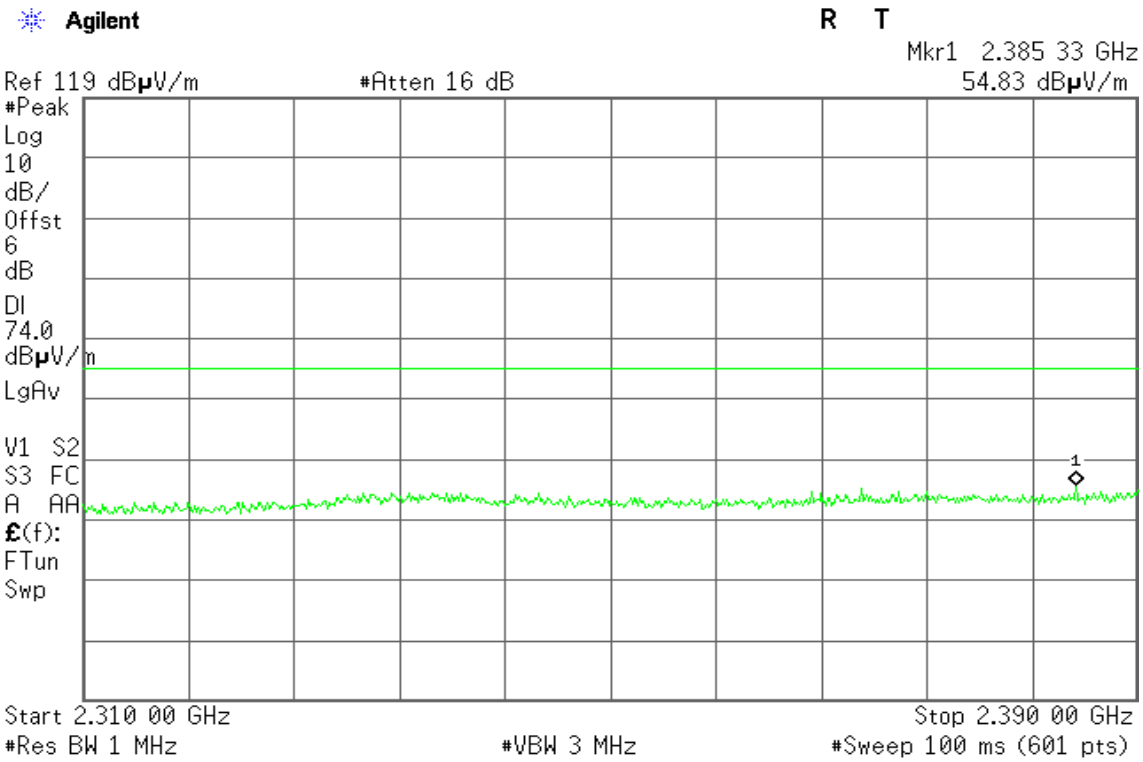


Detector mode: Average **Polarity: Horizontal**

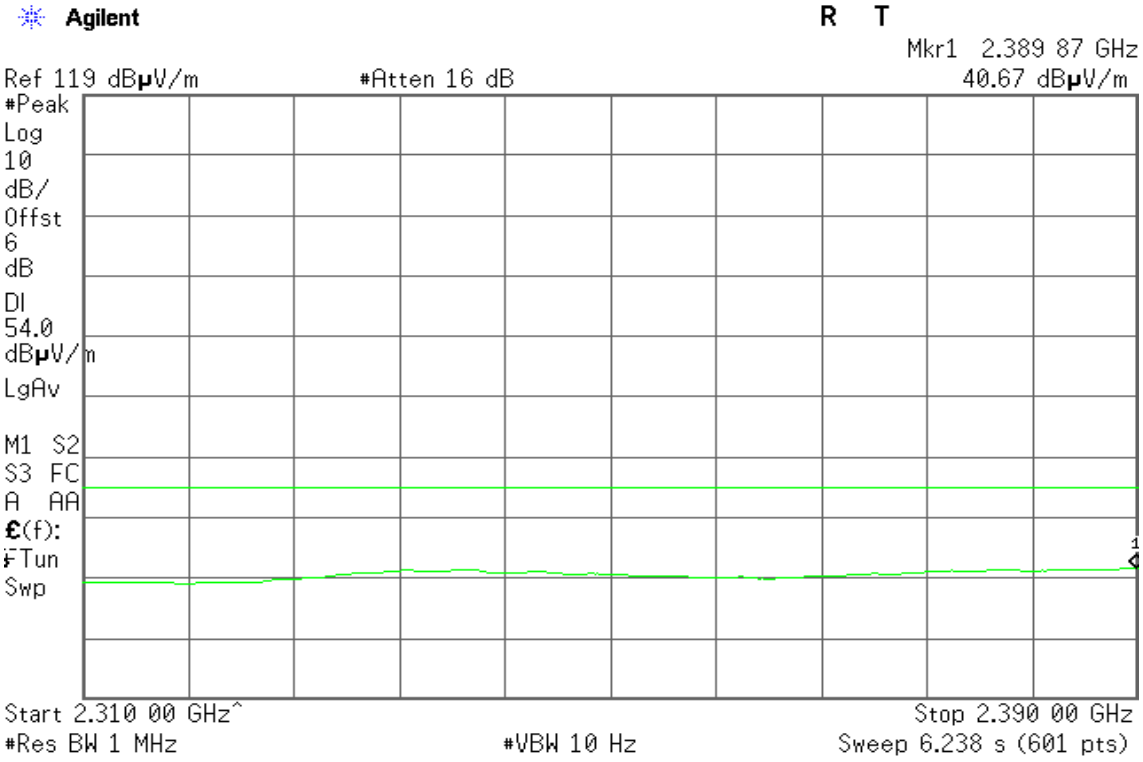


Band Edges (IEEE 802.11g mode / CH Low)

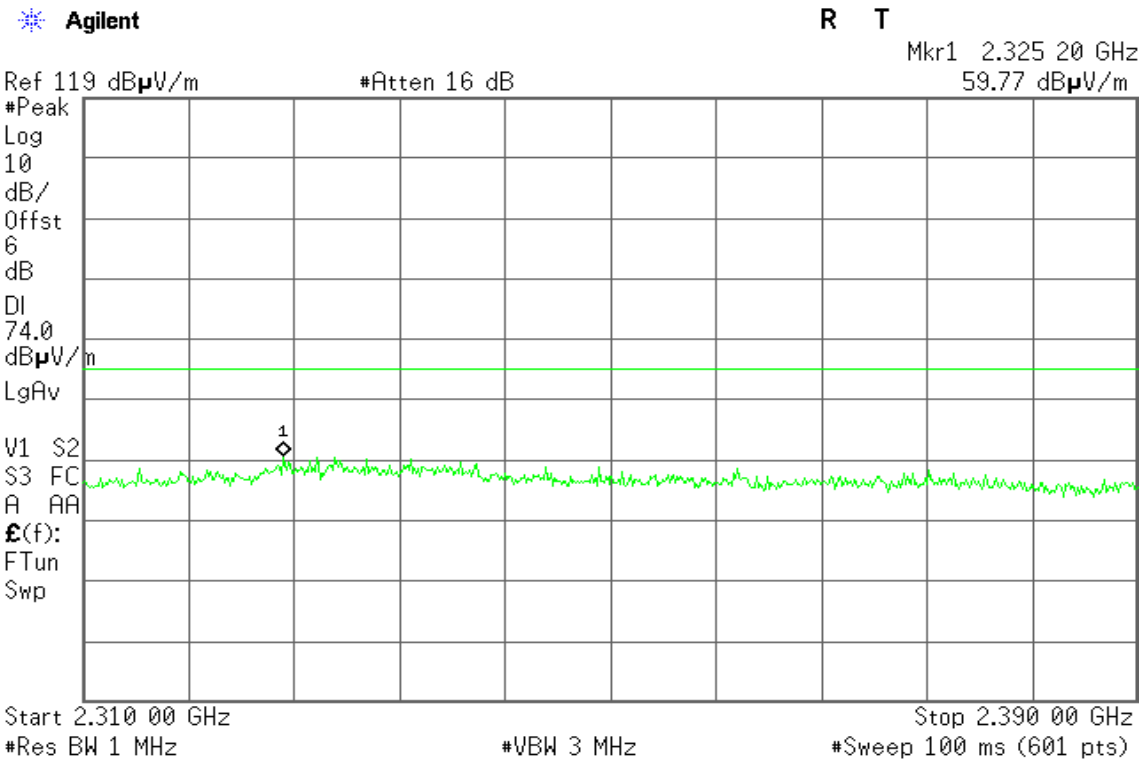
Detector mode: Peak **Polarity: Vertical**



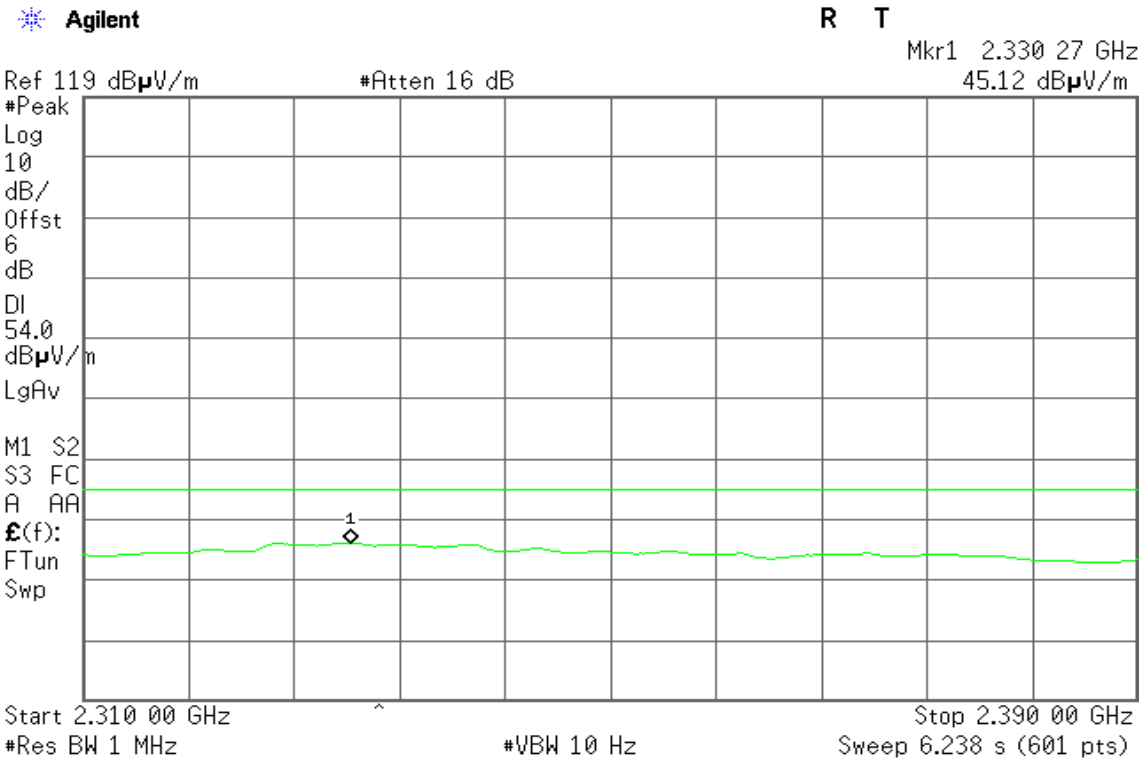
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

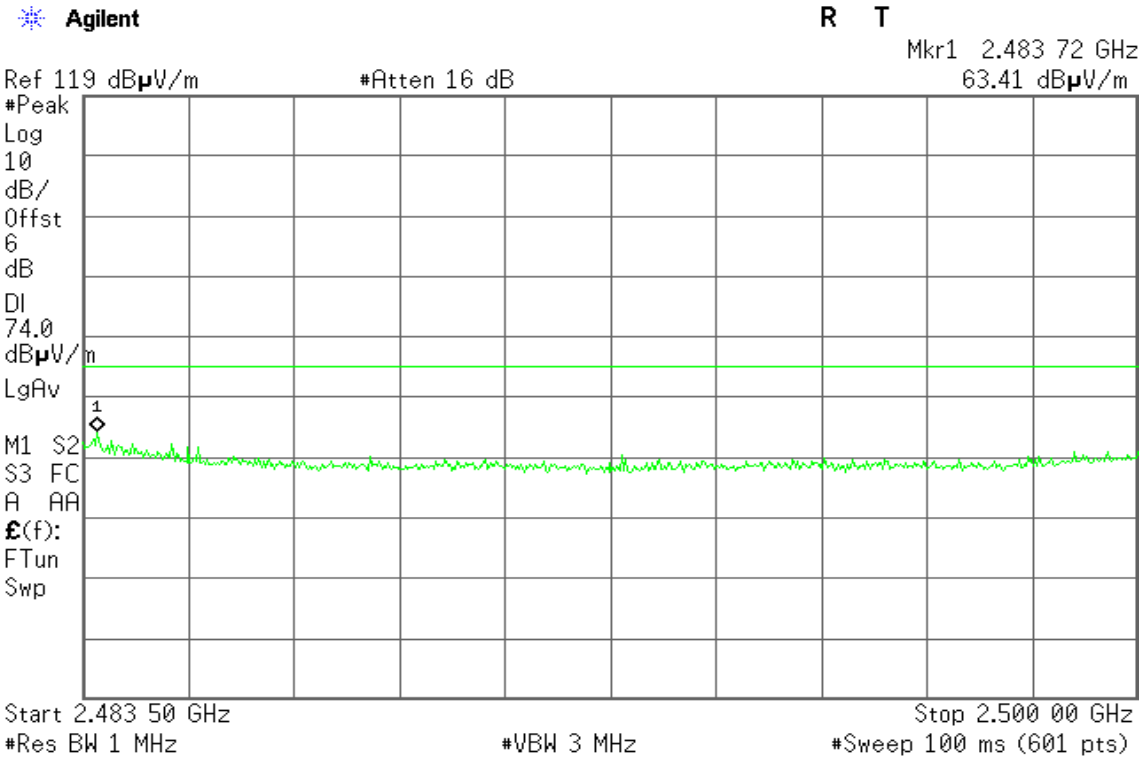


Detector mode: Average **Polarity: Horizontal**

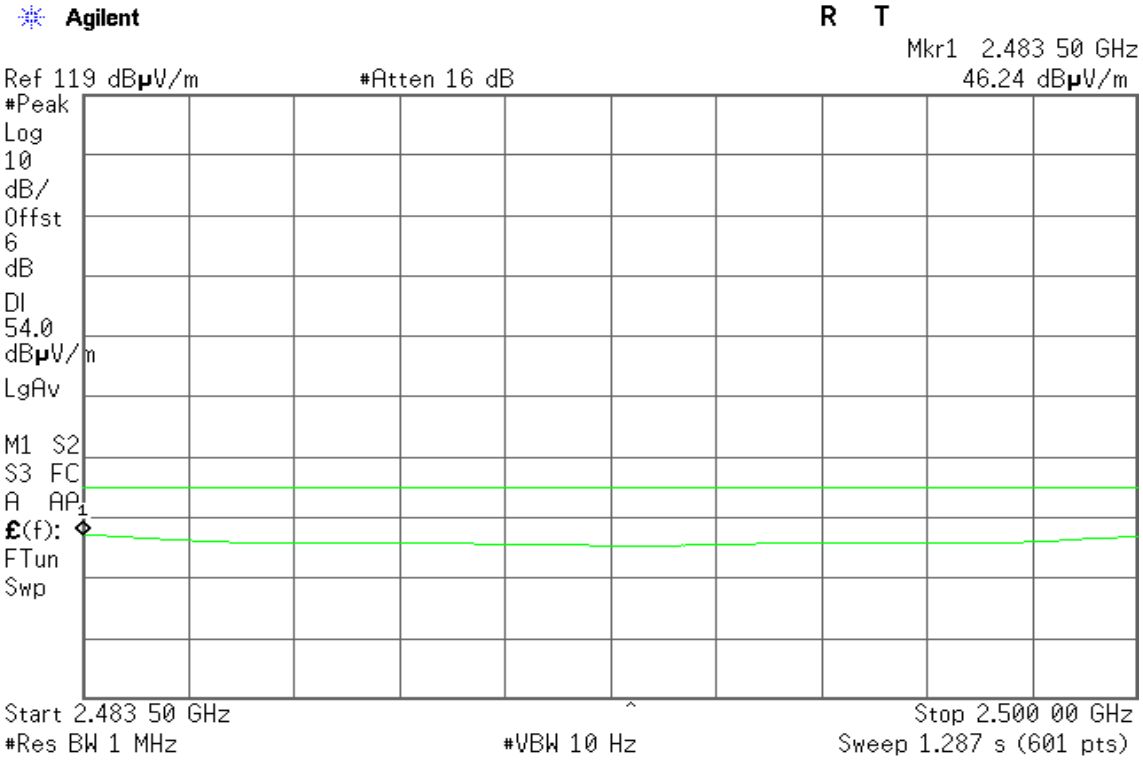


Band Edges (IEEE 802.11g mode / CH High)

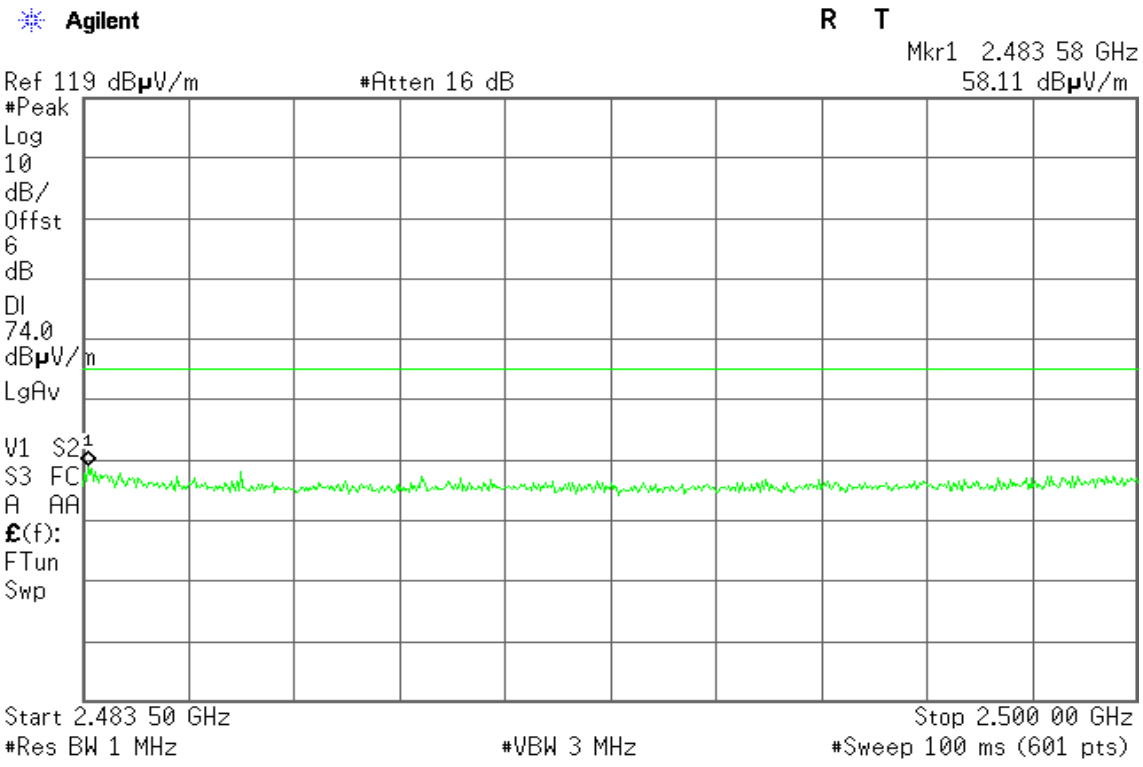
Detector mode: Peak **Polarity: Vertical**



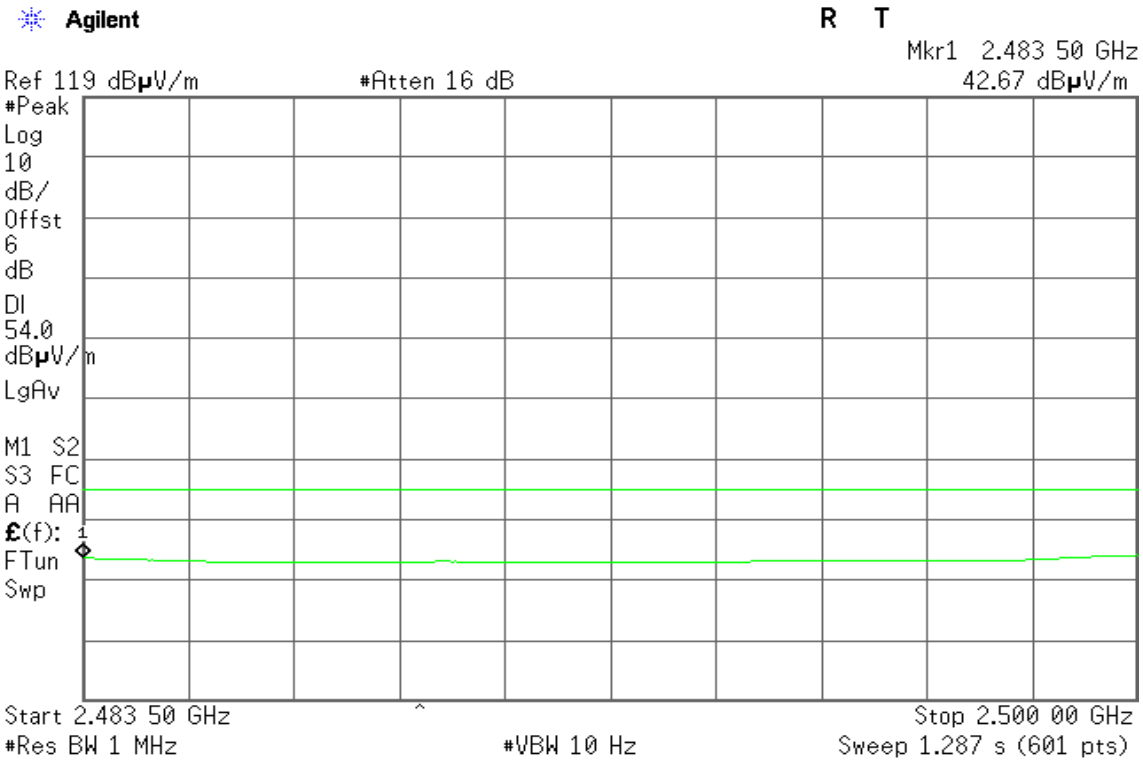
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

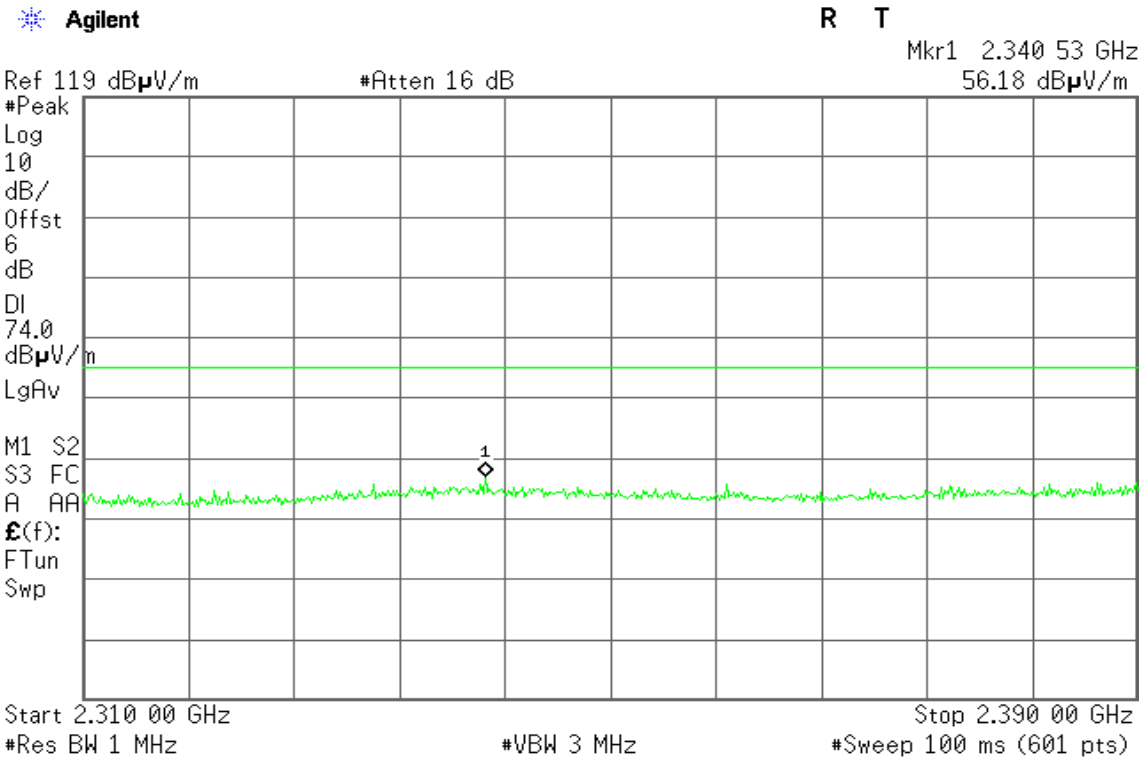


Detector mode: Average **Polarity: Horizontal**

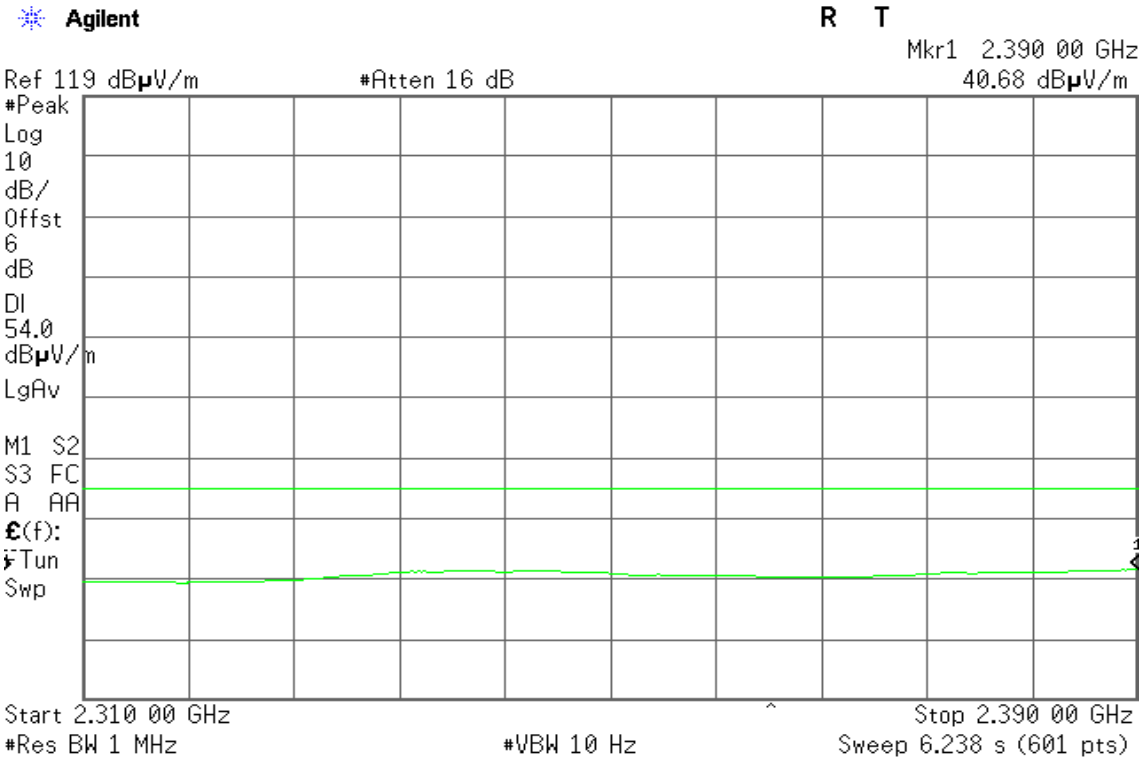


Band Edges (IEEE 802.11n HT 20 MHz mode / CH Low)

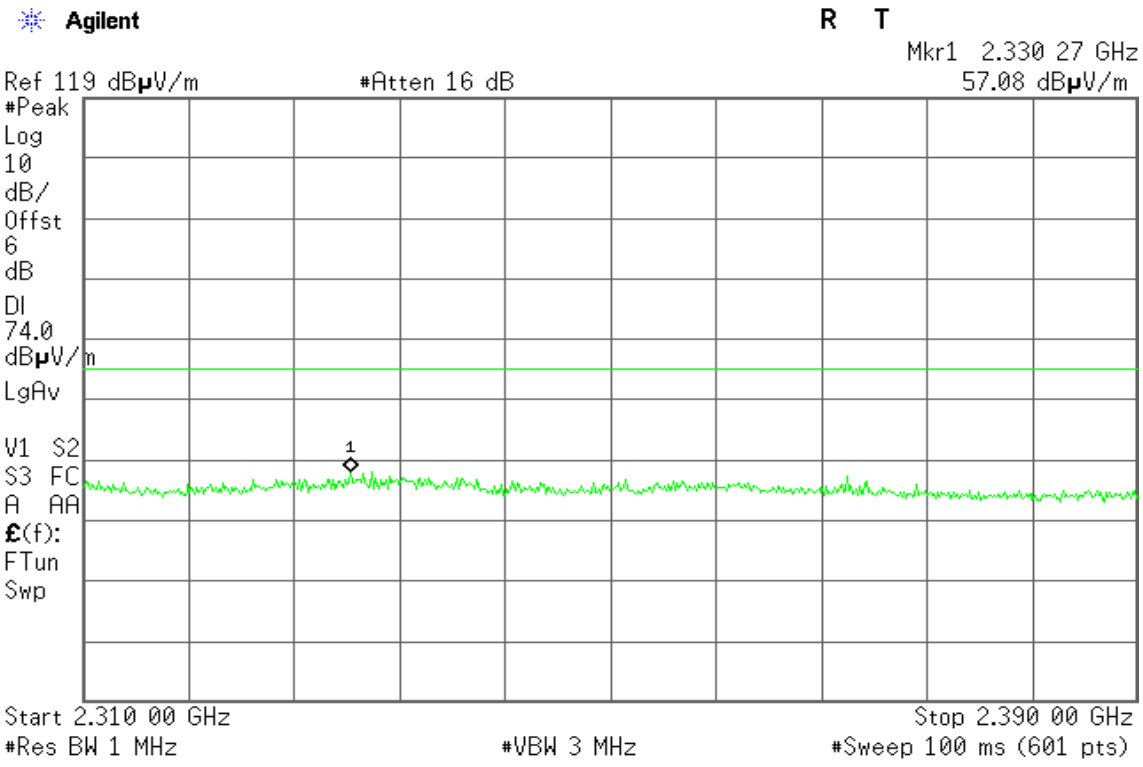
Detector mode: Peak **Polarity: Vertical**



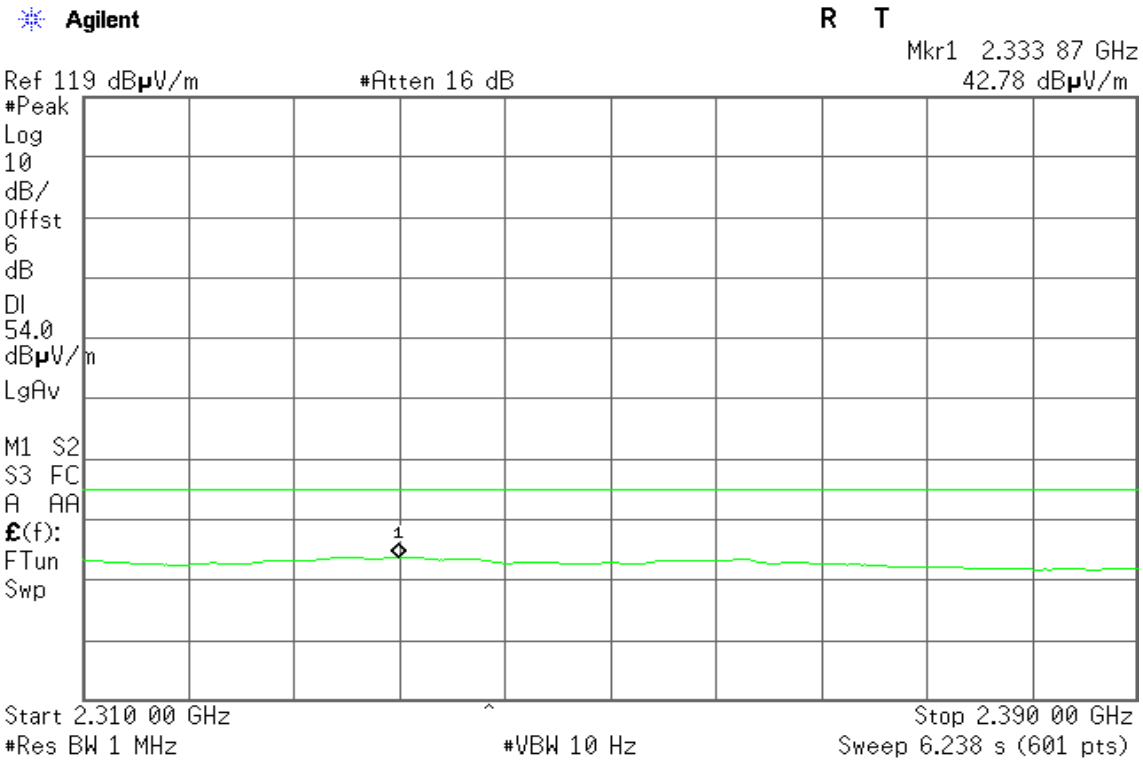
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

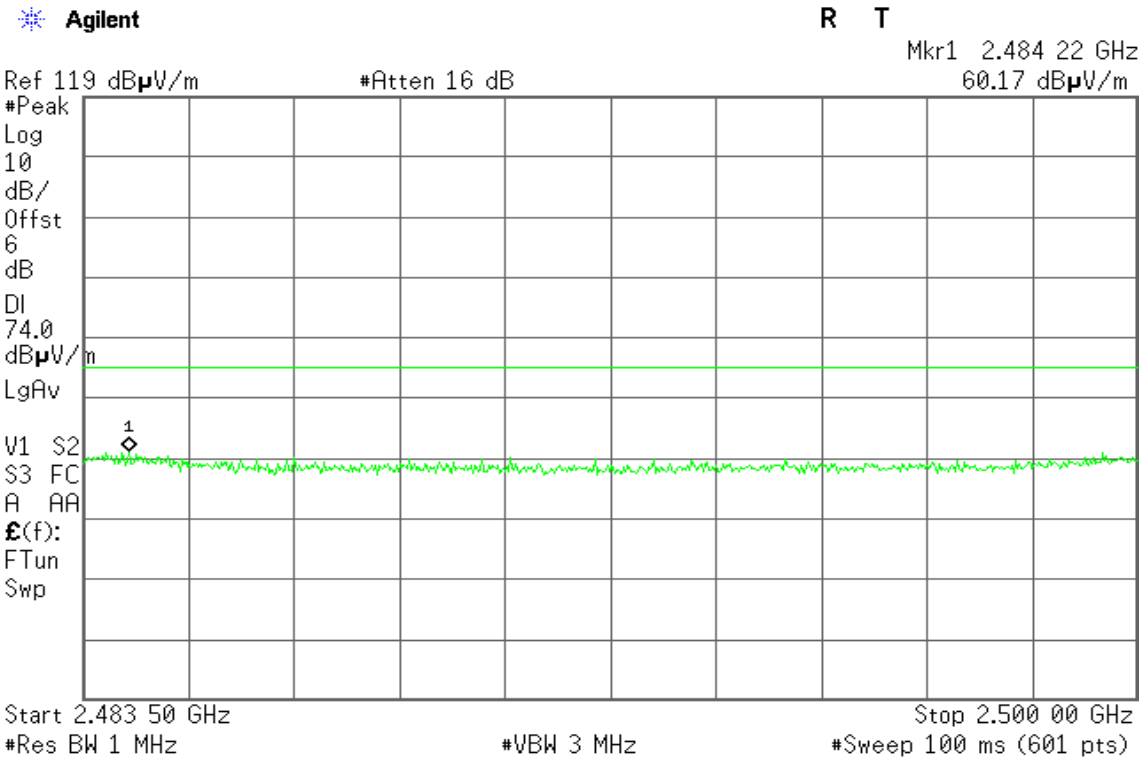


Detector mode: Average **Polarity: Horizontal**

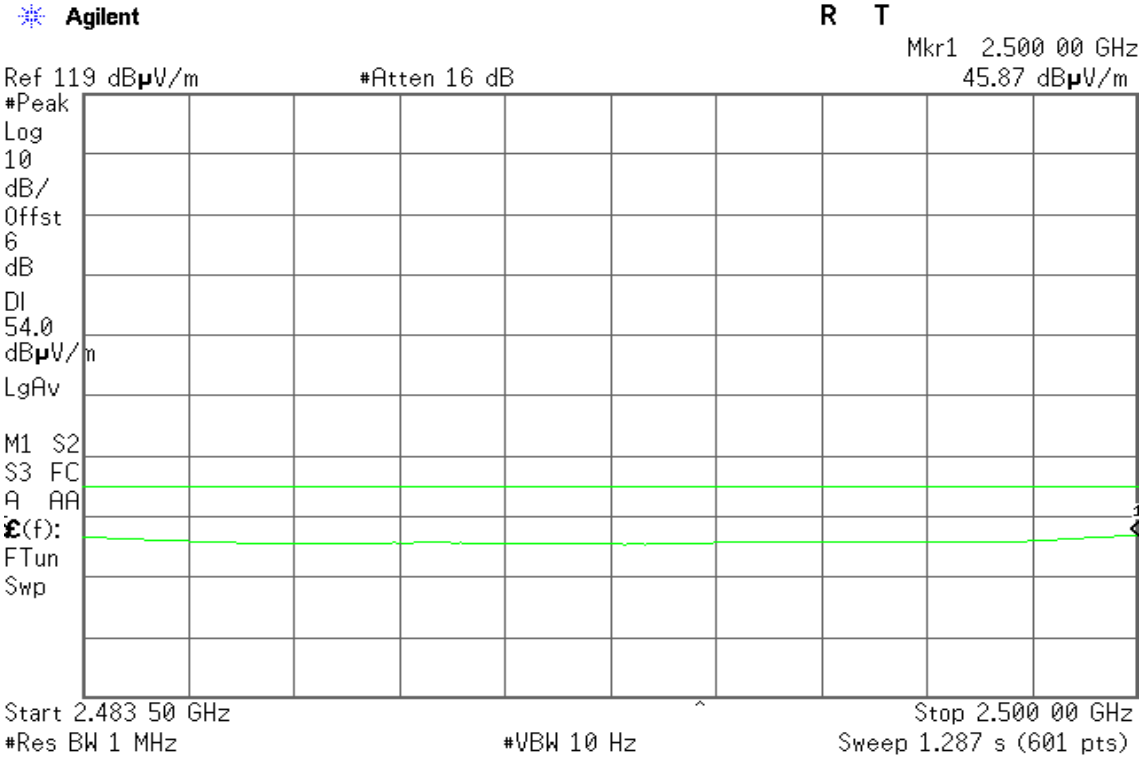


Band Edges (IEEE 802.11n HT 20 MHz mode / CH High)

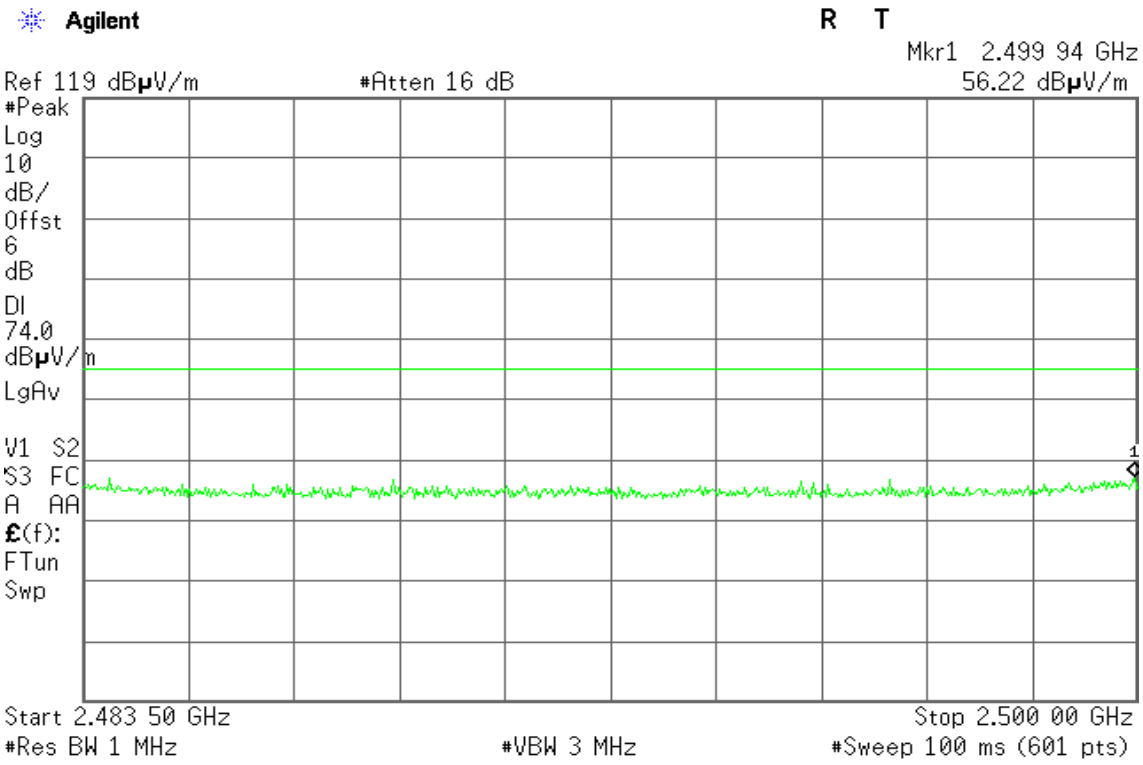
Detector mode: Peak **Polarity: Vertical**



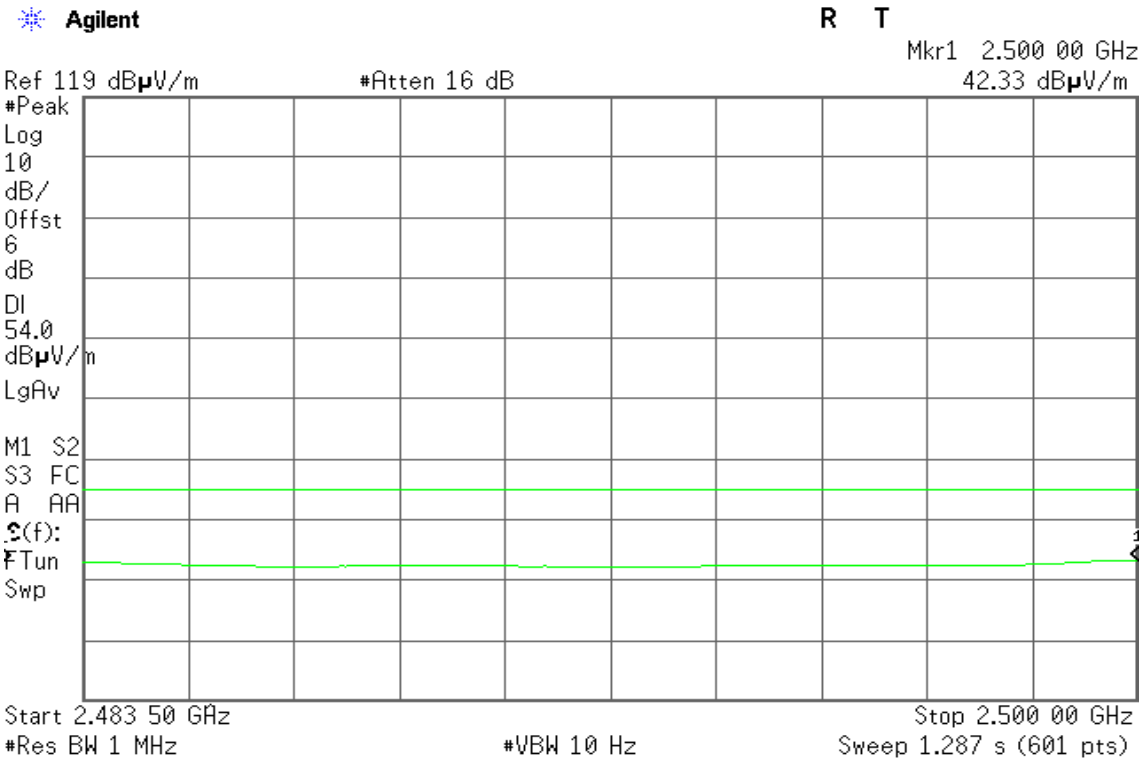
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

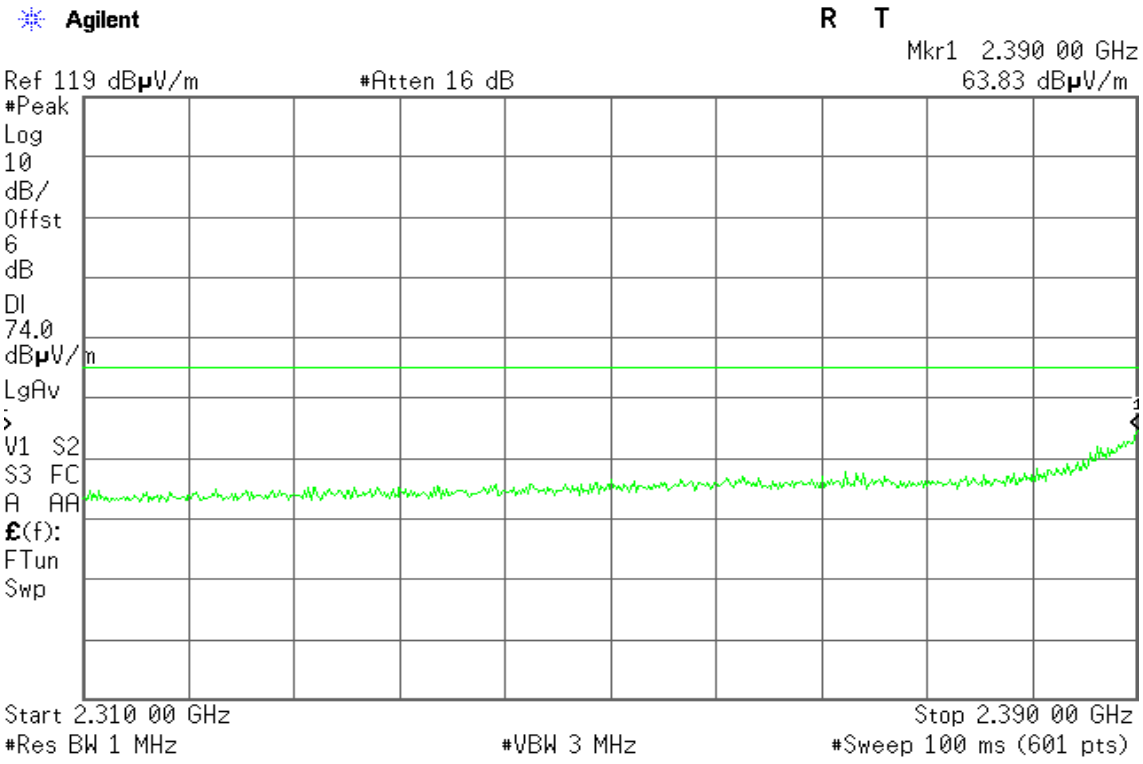


Detector mode: Average **Polarity: Horizontal**

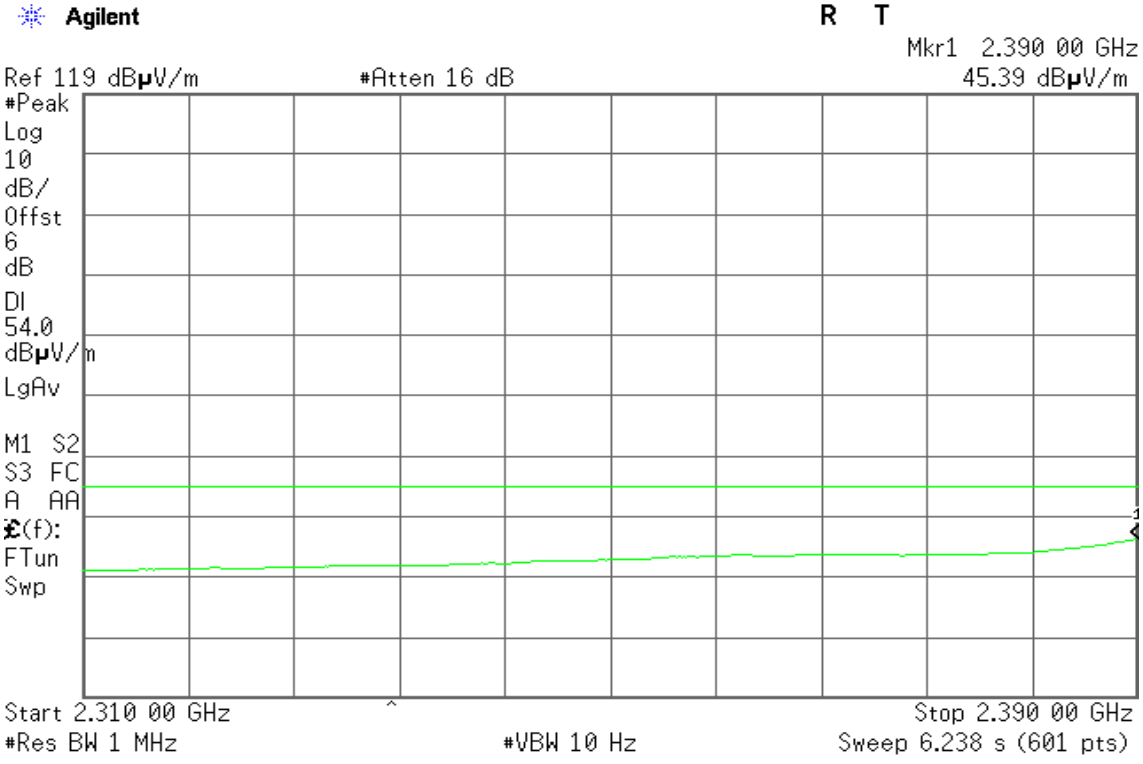


Band Edges (IEEE 802.11n HT 40 MHz mode / CH Low)

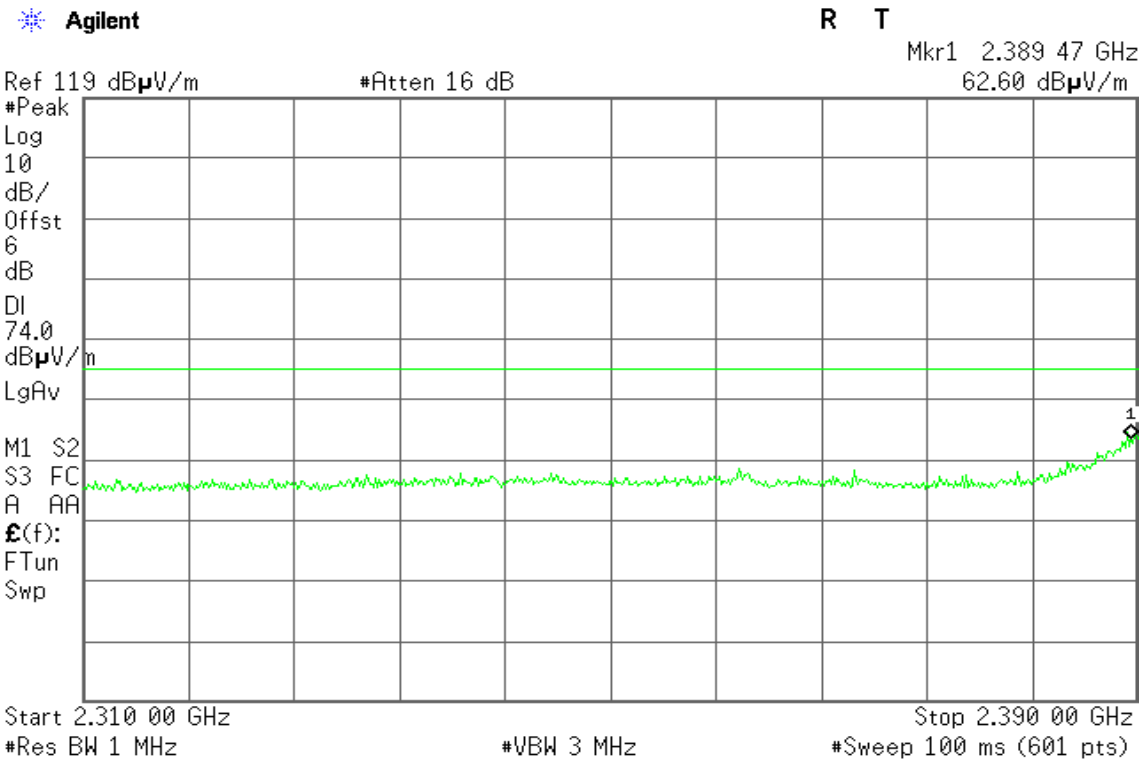
Detector mode: Peak **Polarity: Vertical**



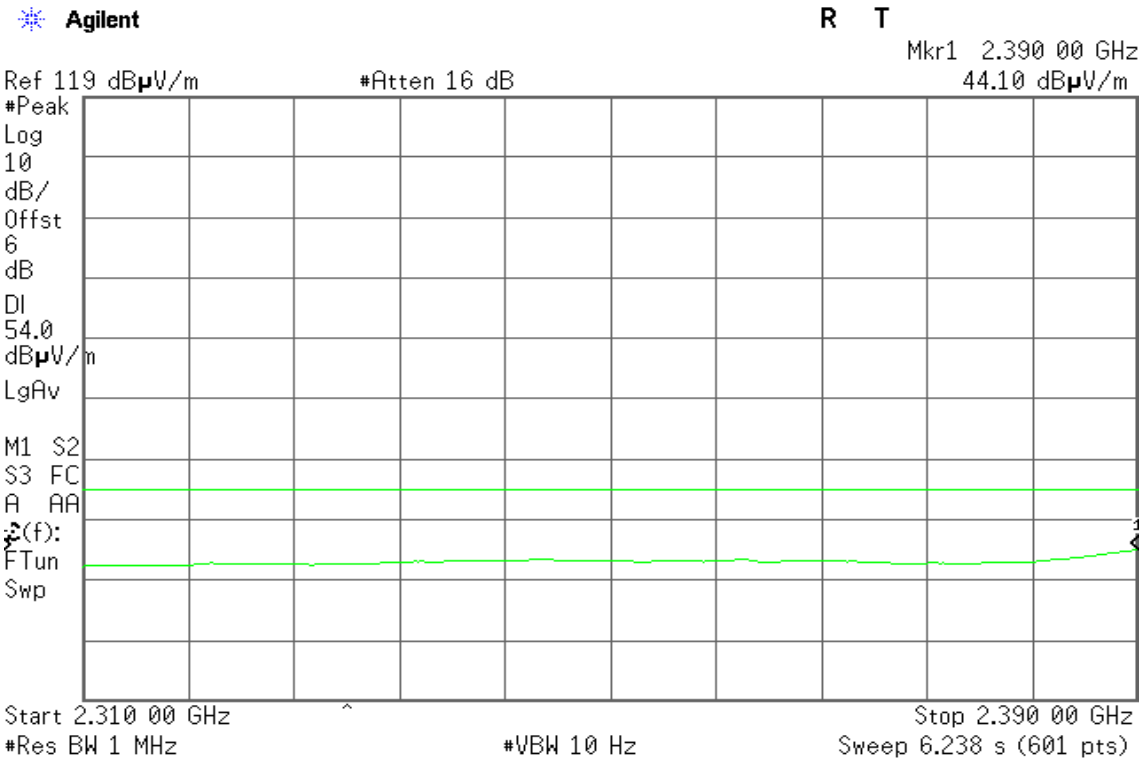
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

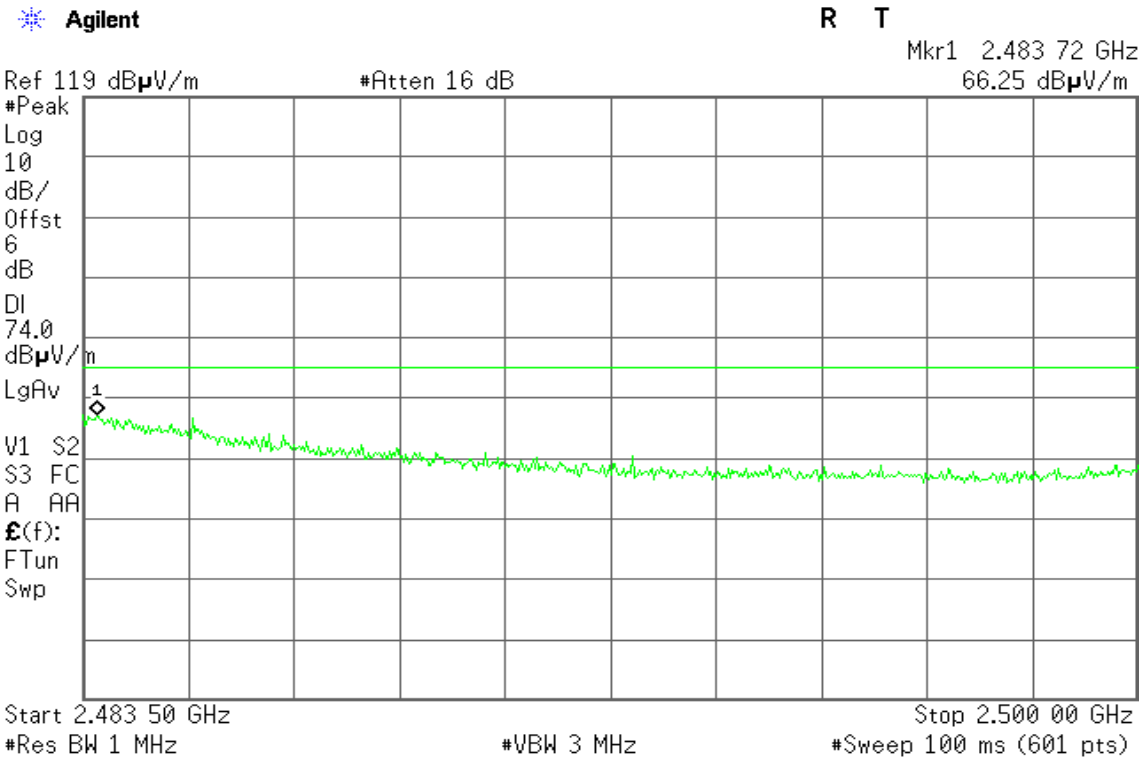


Detector mode: Average **Polarity: Horizontal**

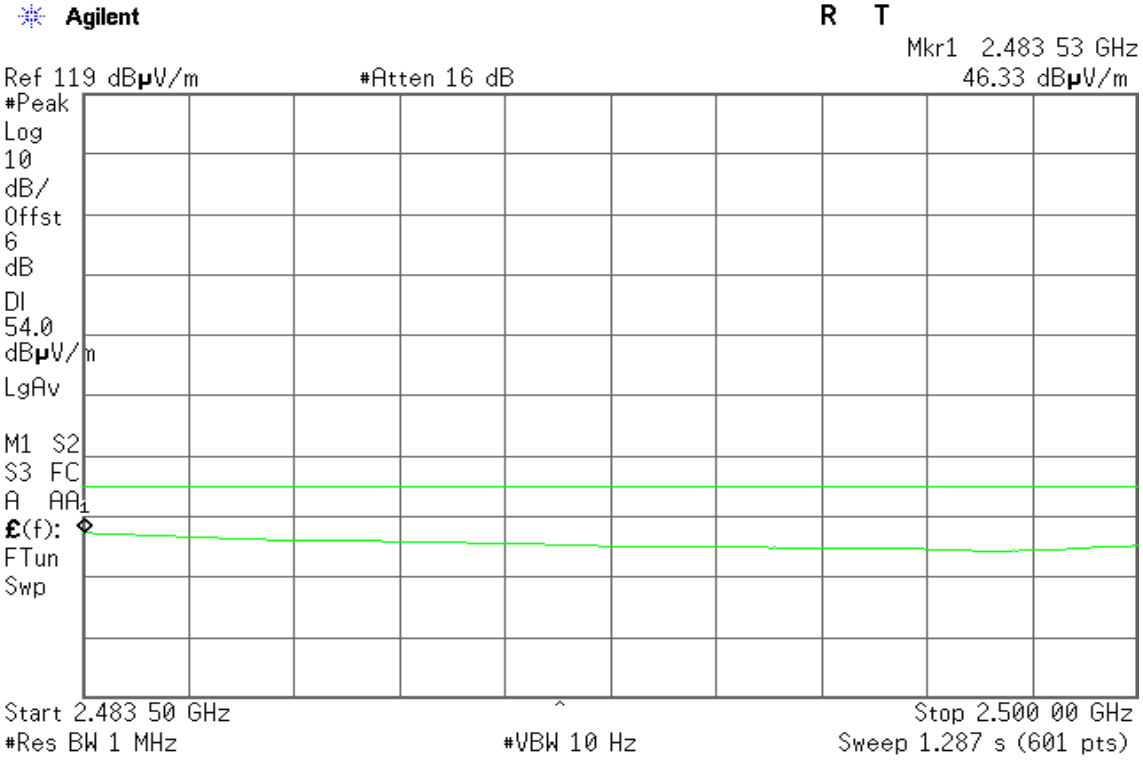


Band Edges (IEEE 802.11n HT 40 MHz mode / CH High)

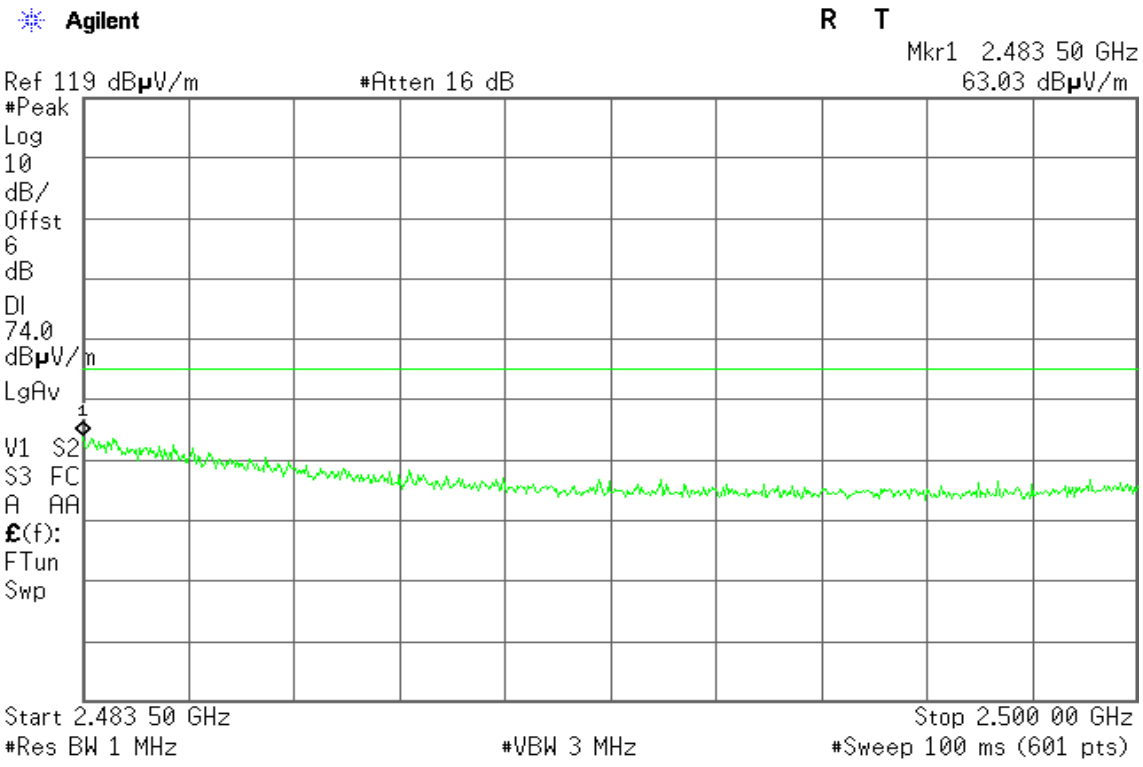
Detector mode: Peak **Polarity: Vertical**



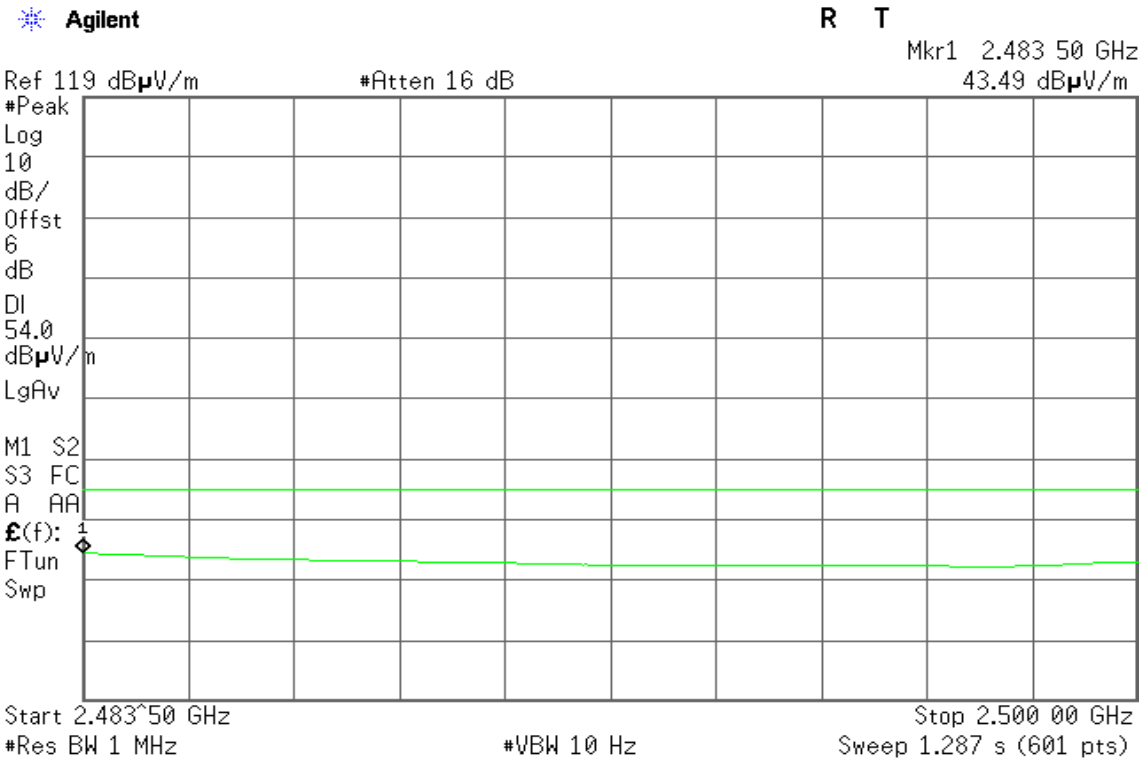
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



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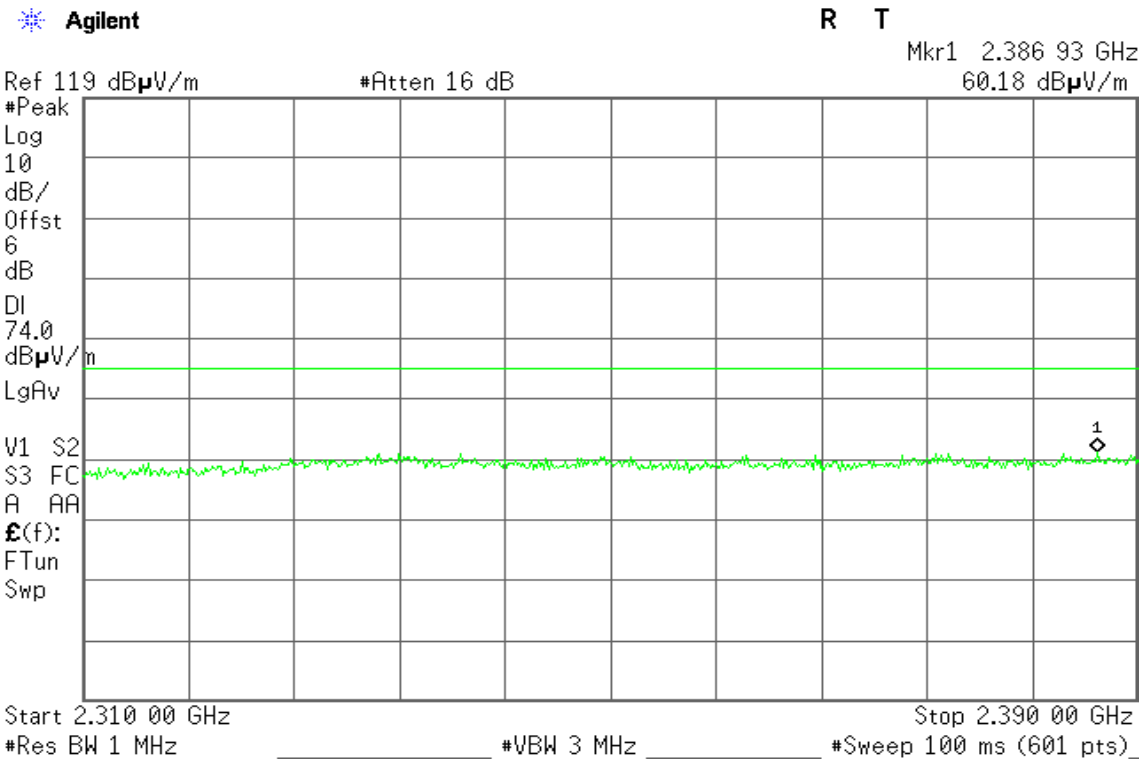
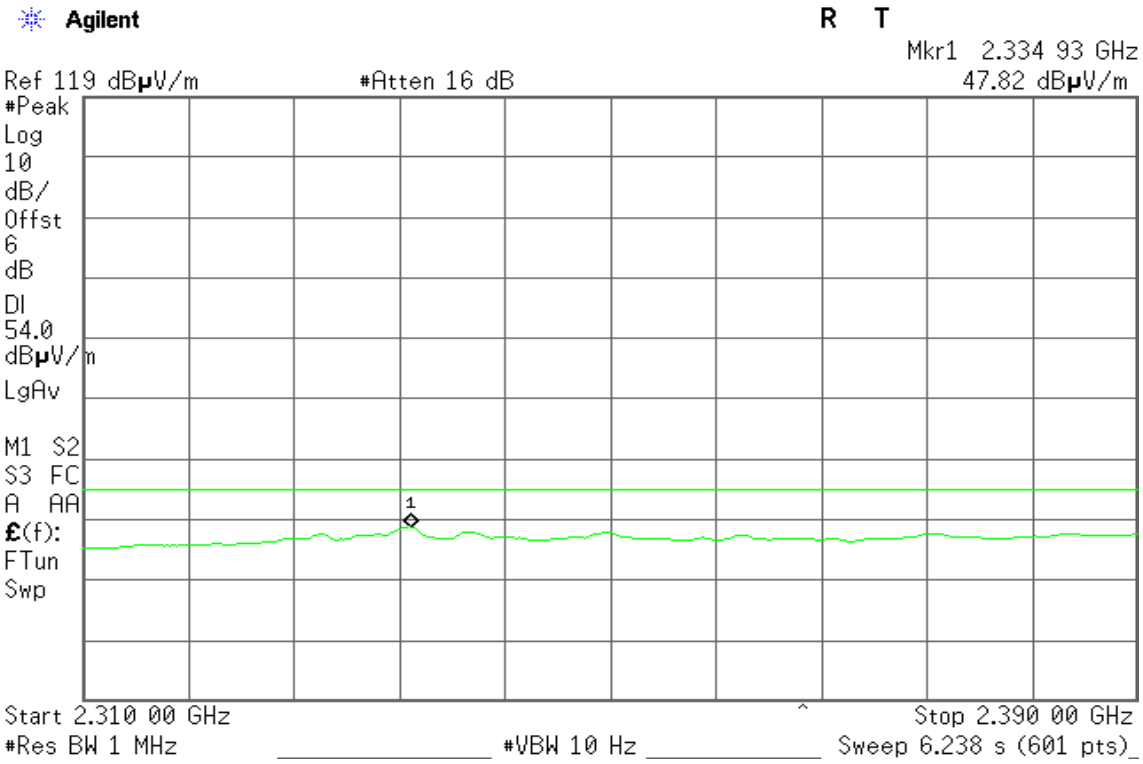
Band Edges (IEEE 802.11b mode / CH Low)

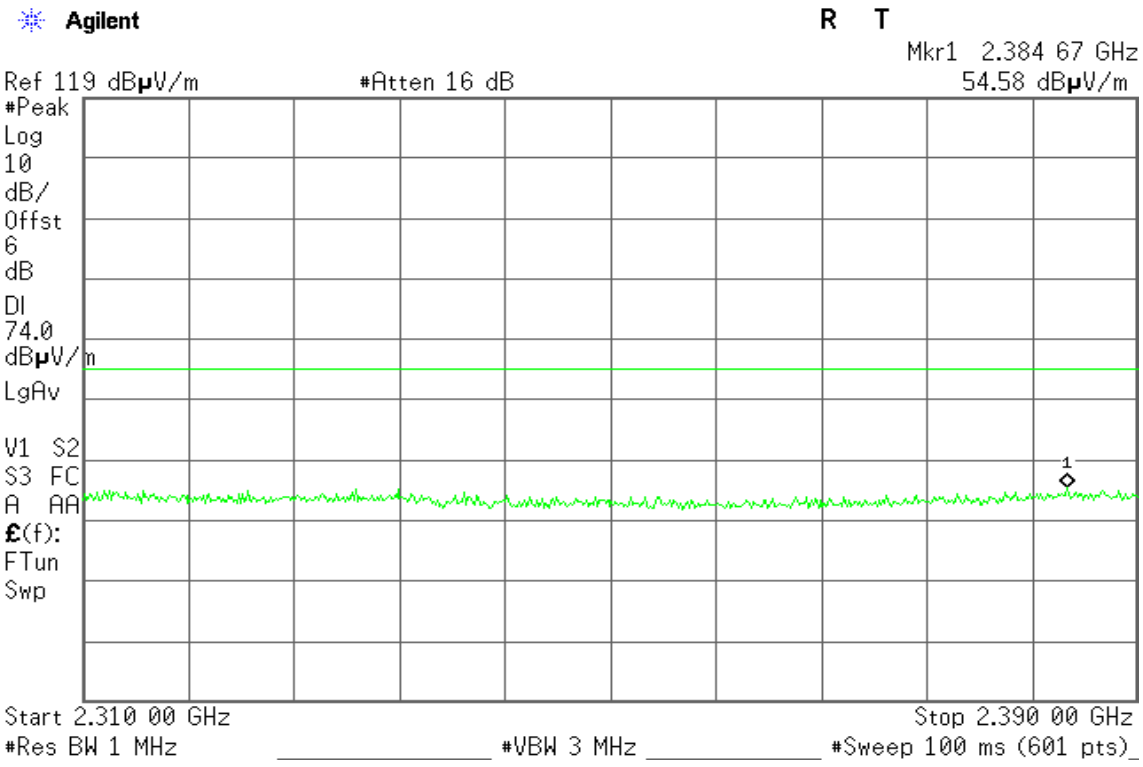
Detector mode: Peak **Polarity: Vertical**



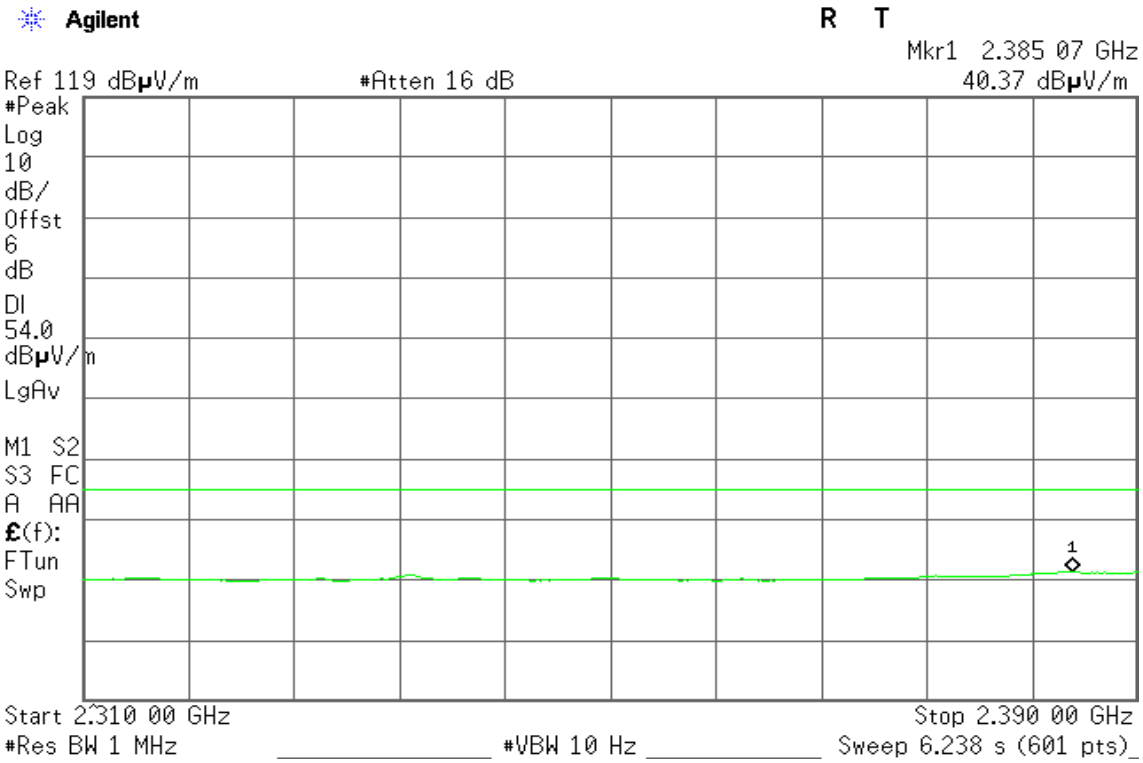
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

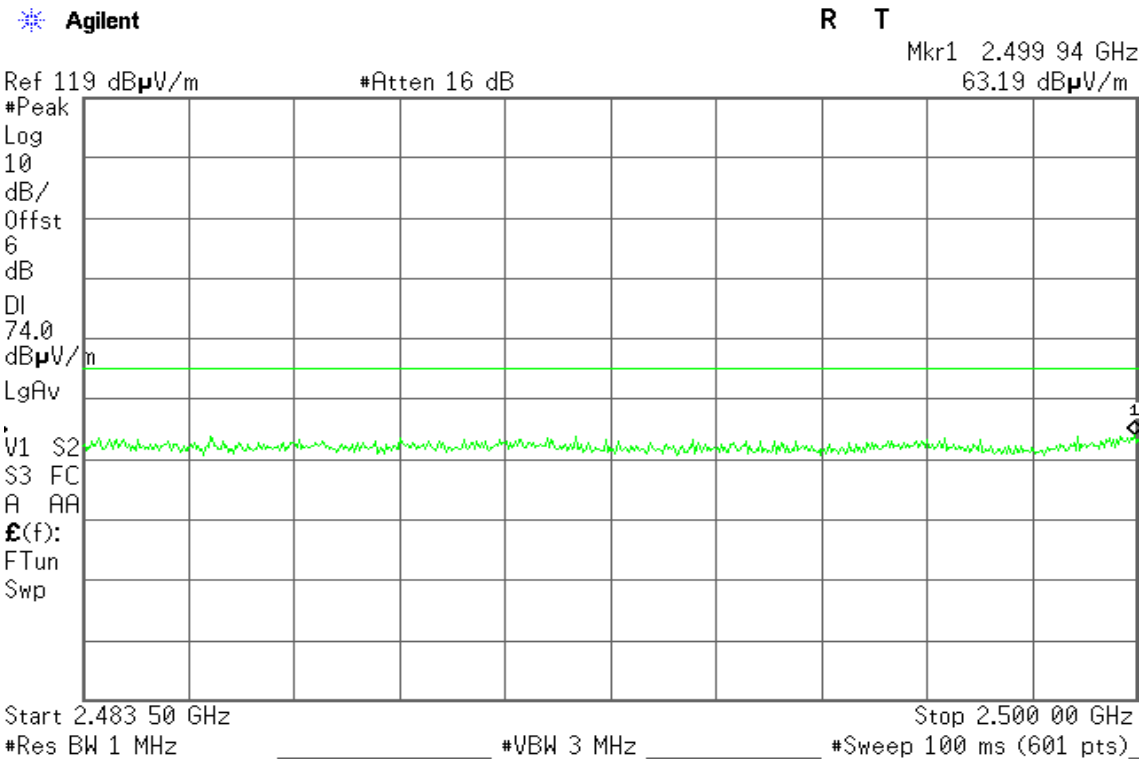


Detector mode: Average **Polarity: Horizontal**

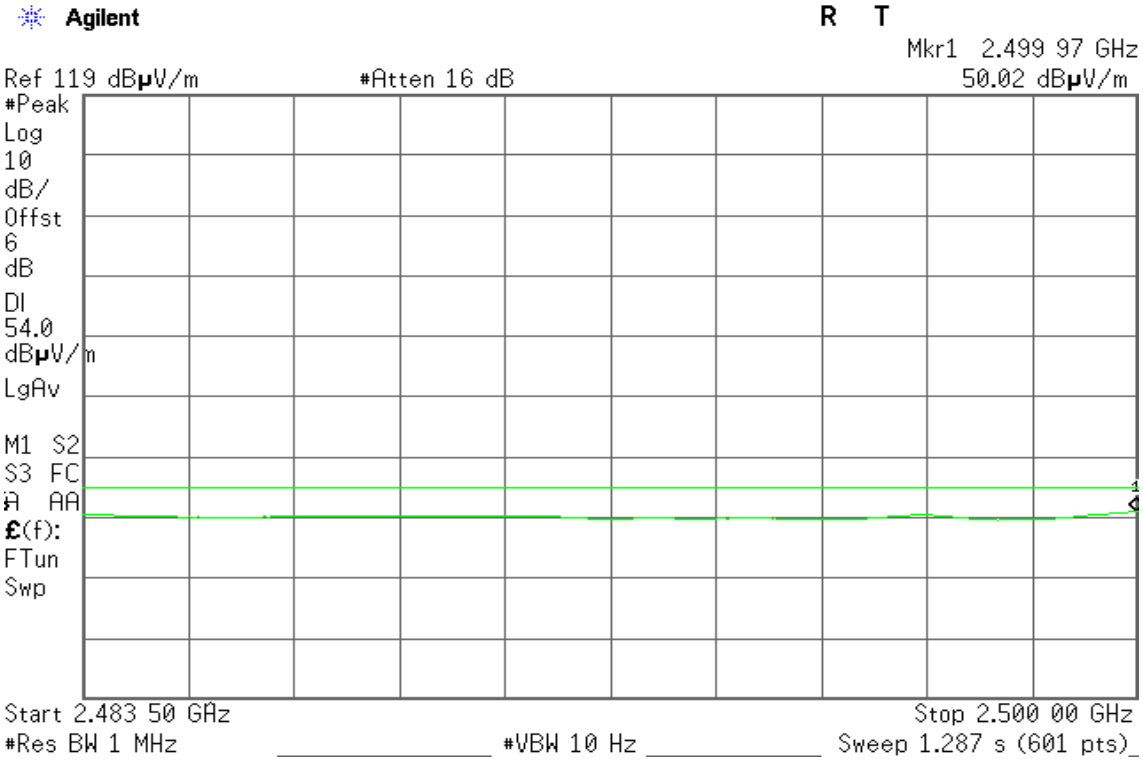


Band Edges (IEEE 802.11b mode / CH High)

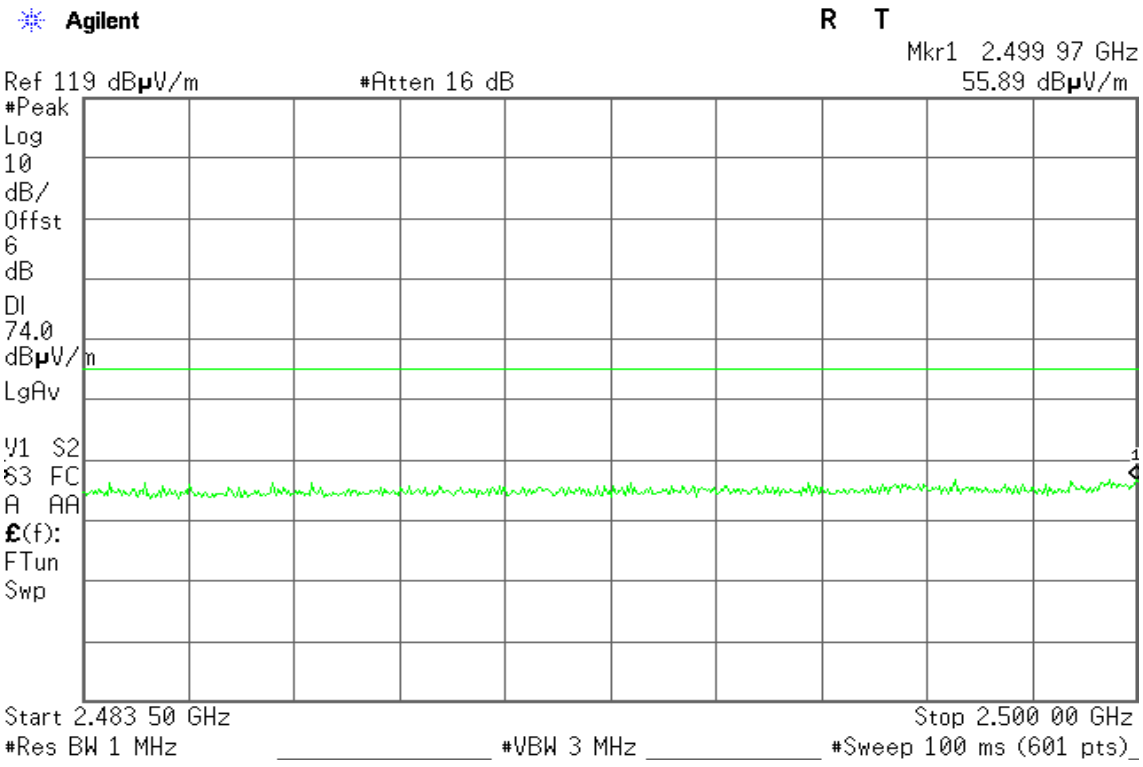
Detector mode: Peak **Polarity: Vertical**



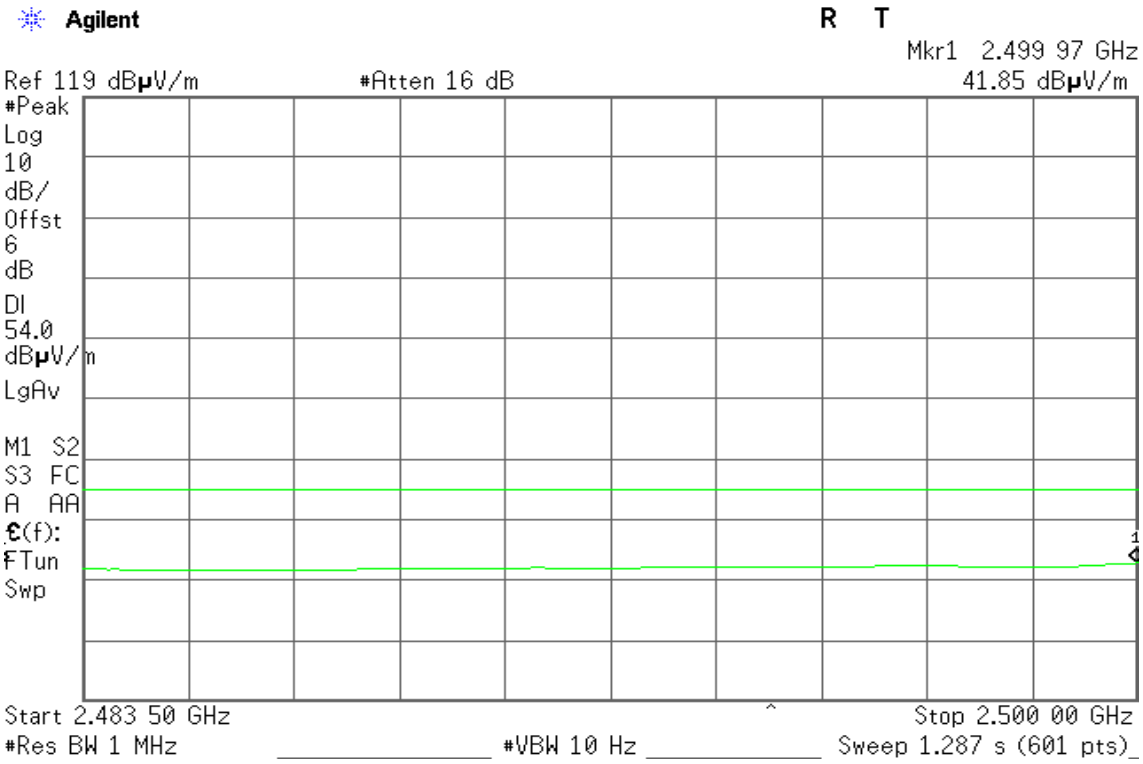
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

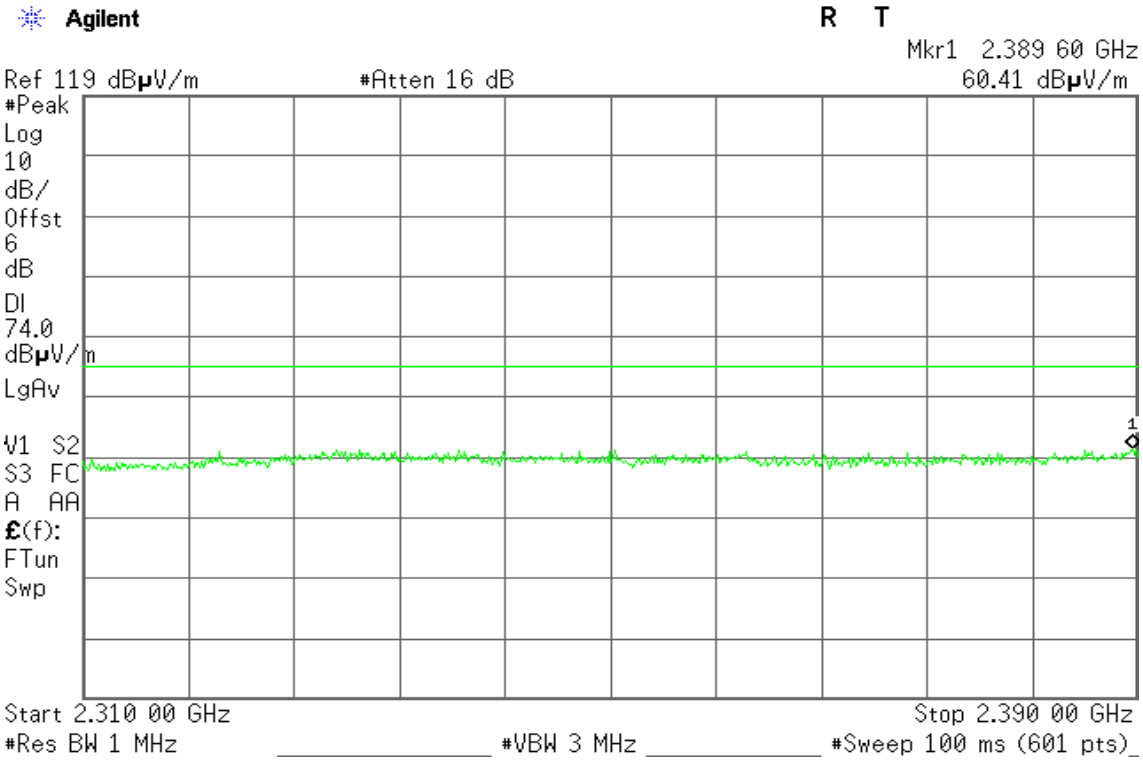


Detector mode: Average **Polarity: Horizontal**

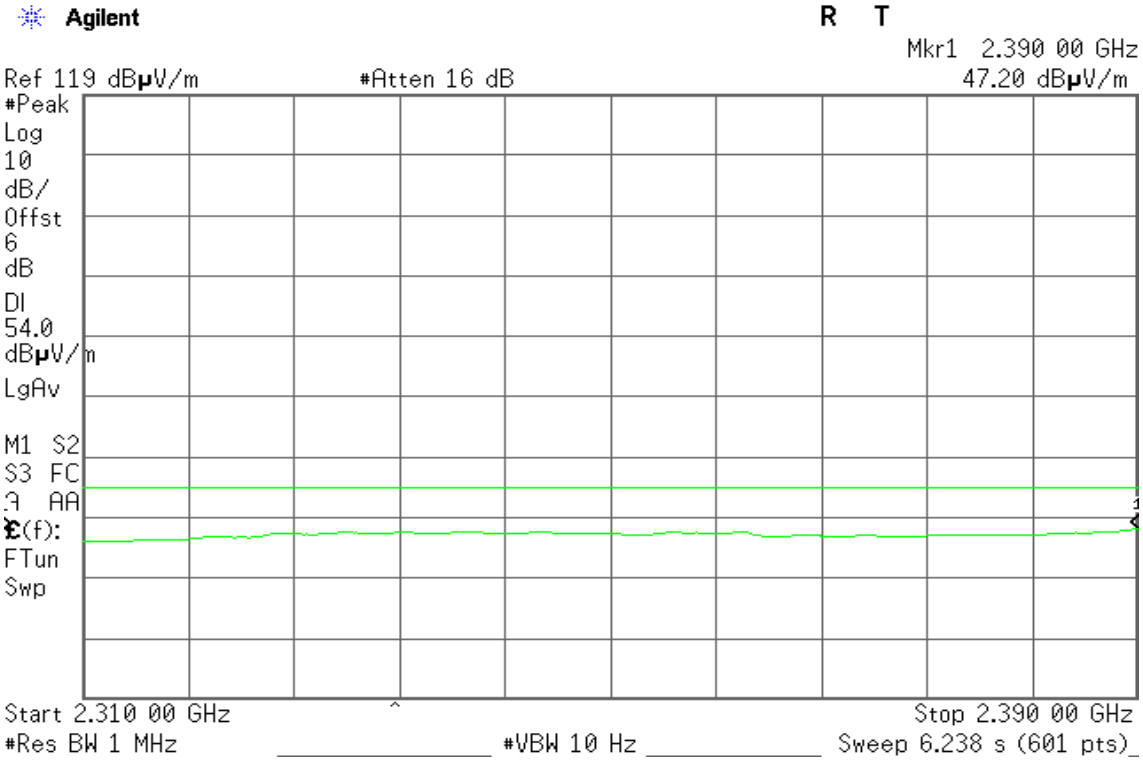


Band Edges (IEEE 802.11g mode / CH Low)

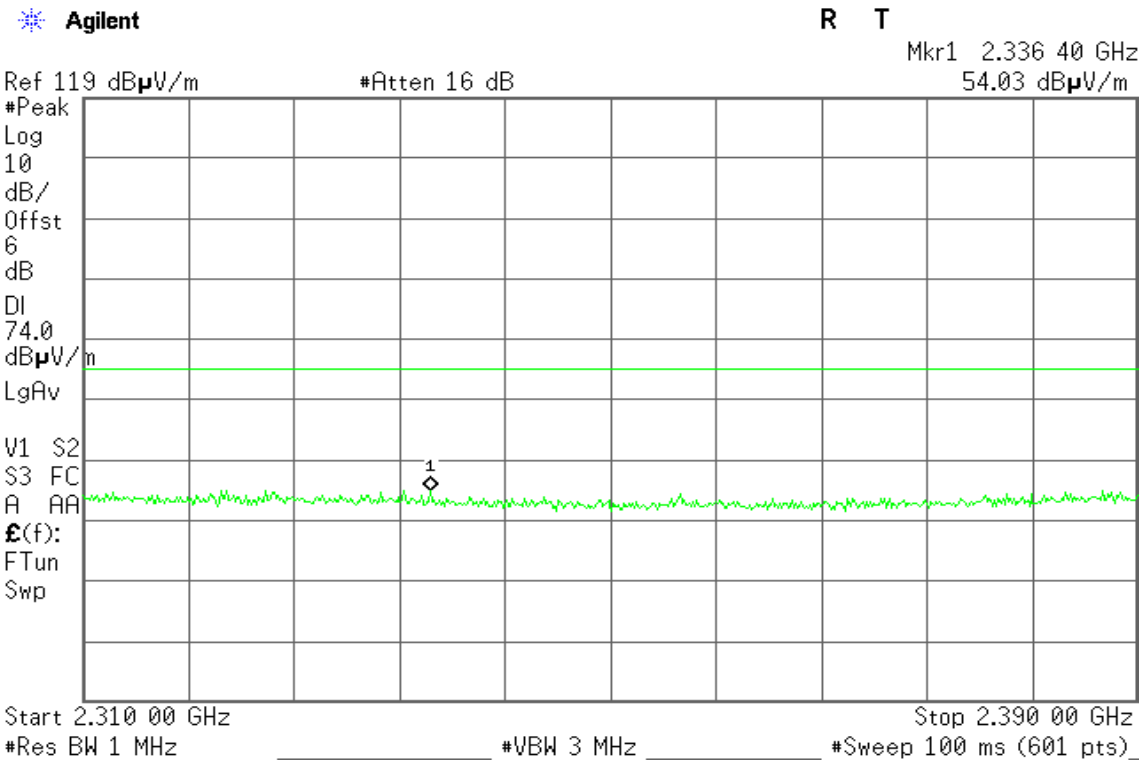
Detector mode: Peak **Polarity: Vertical**



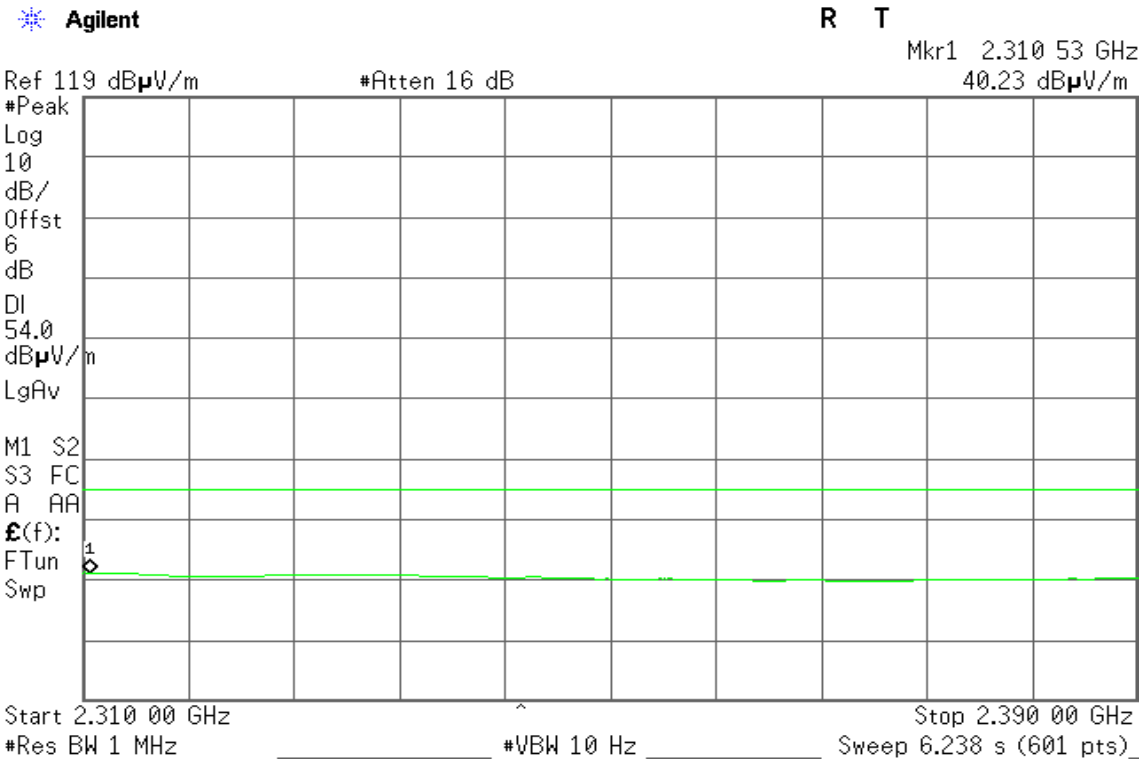
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

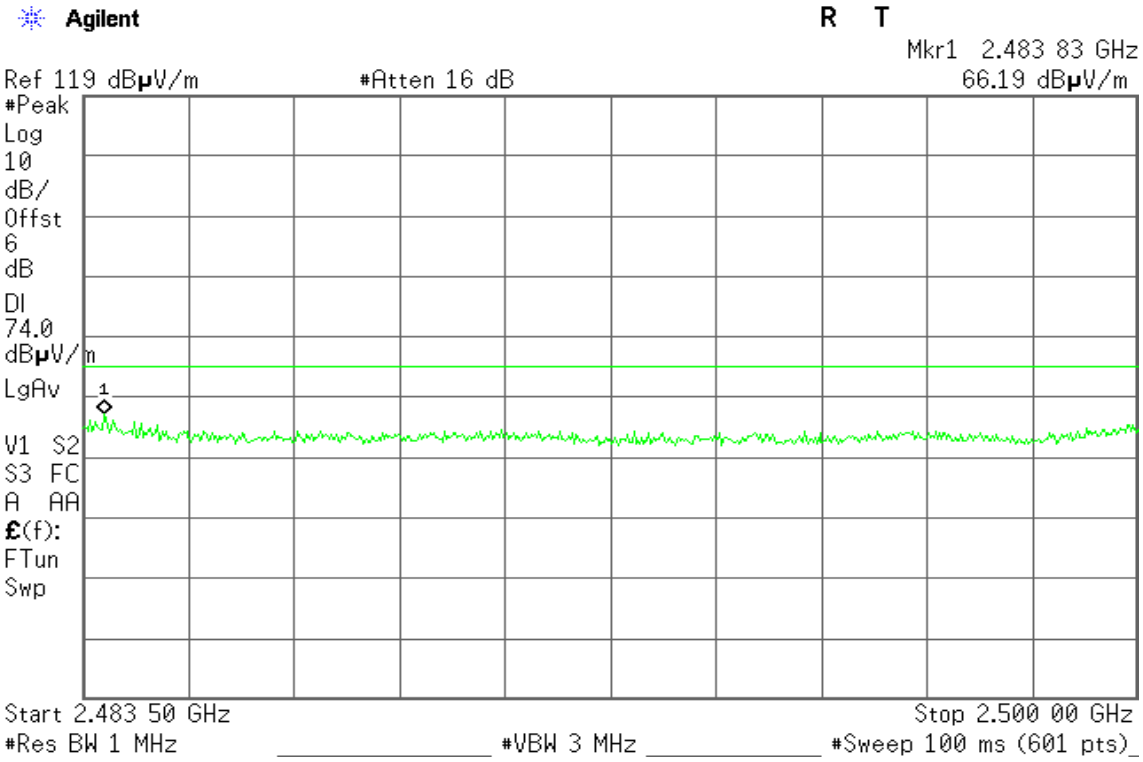


Detector mode: Average **Polarity: Horizontal**

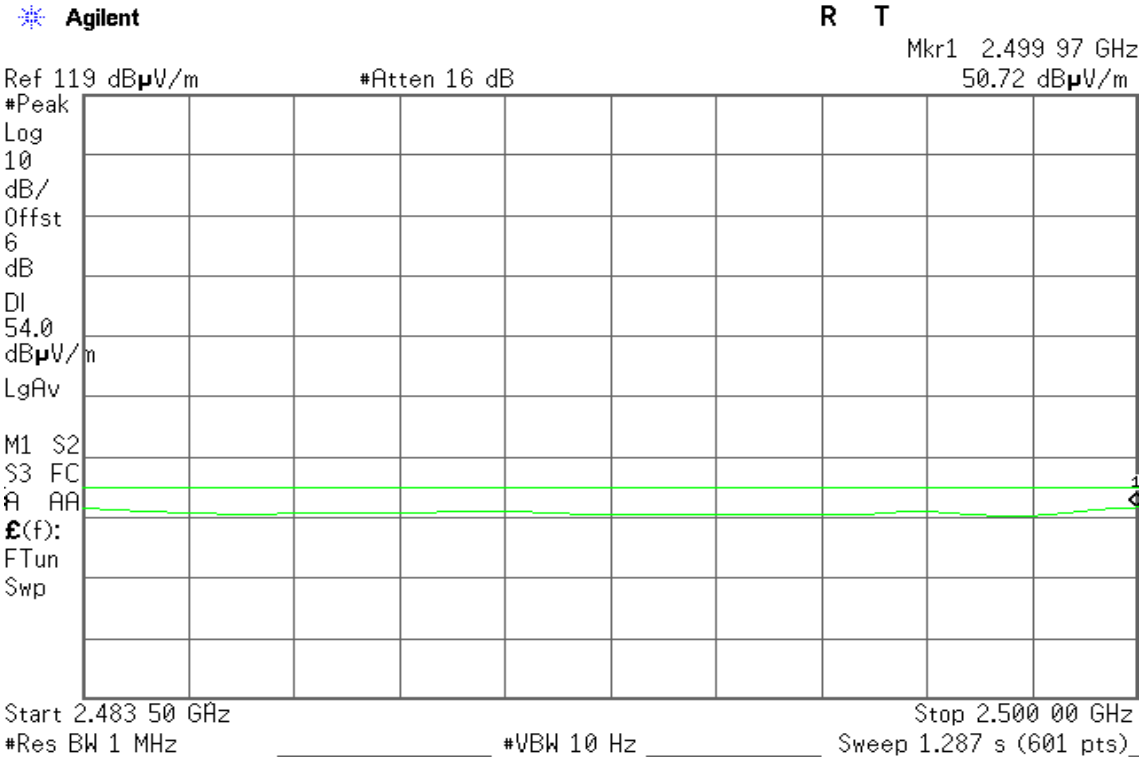


Band Edges (IEEE 802.11g mode / CH High)

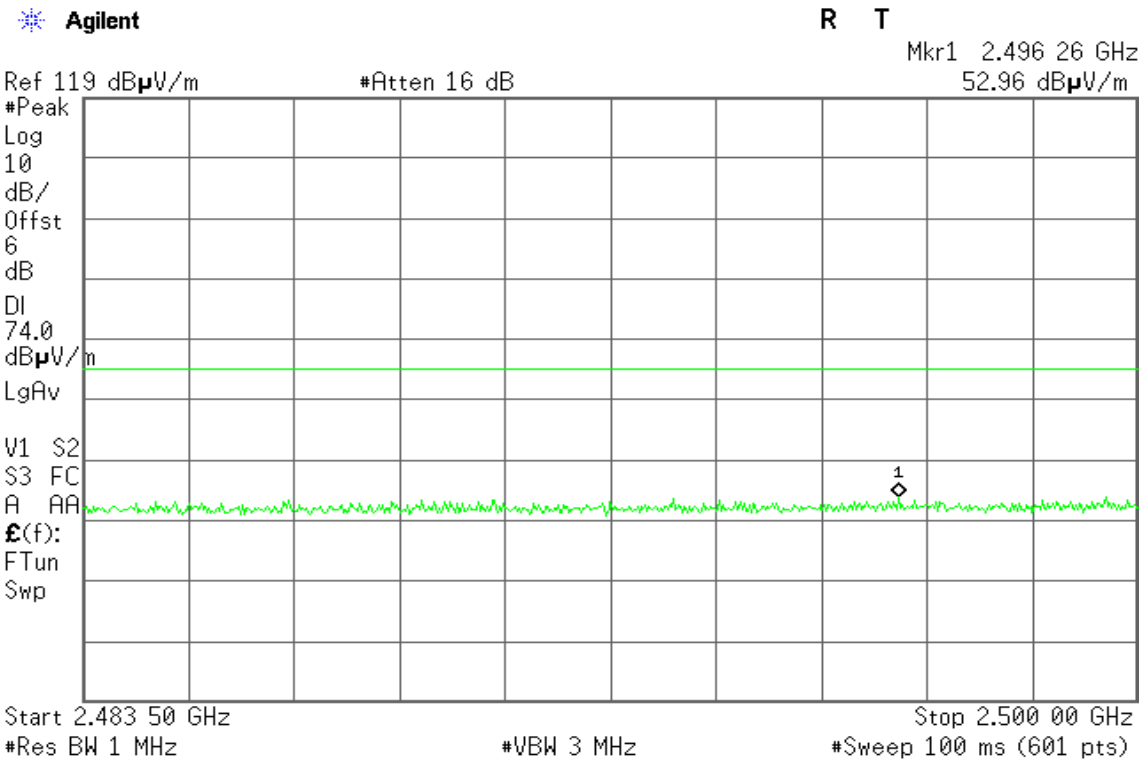
Detector mode: Peak **Polarity: Vertical**



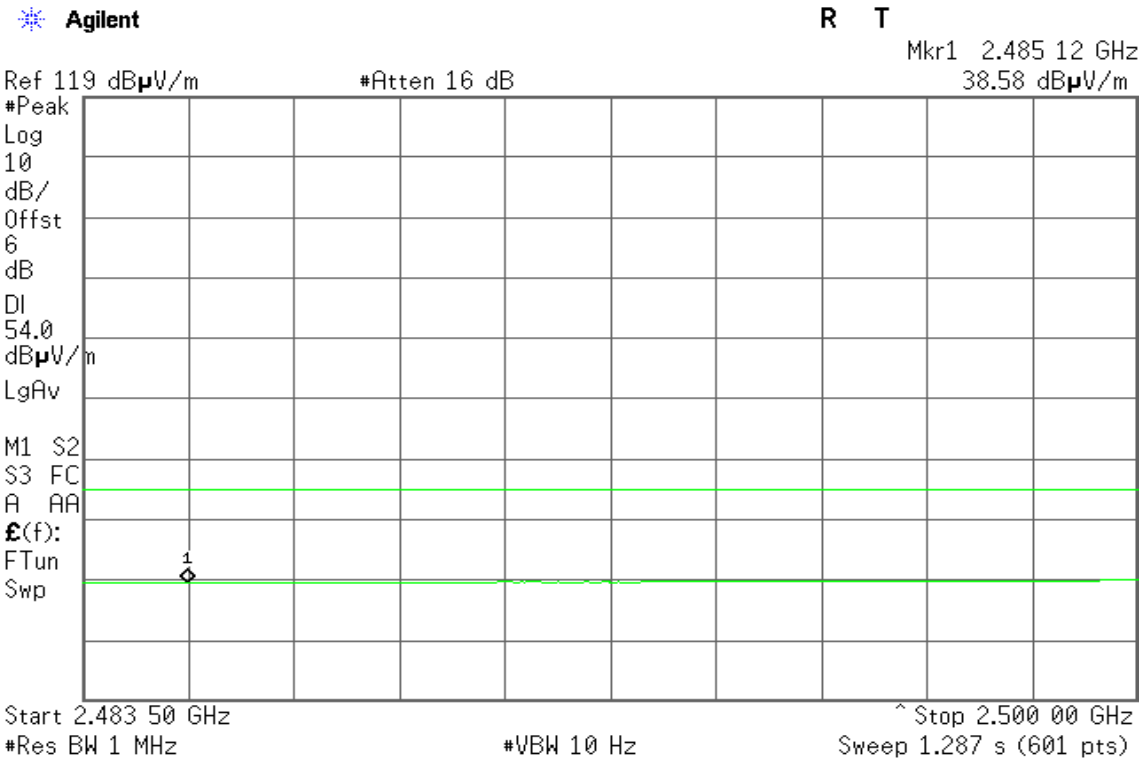
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

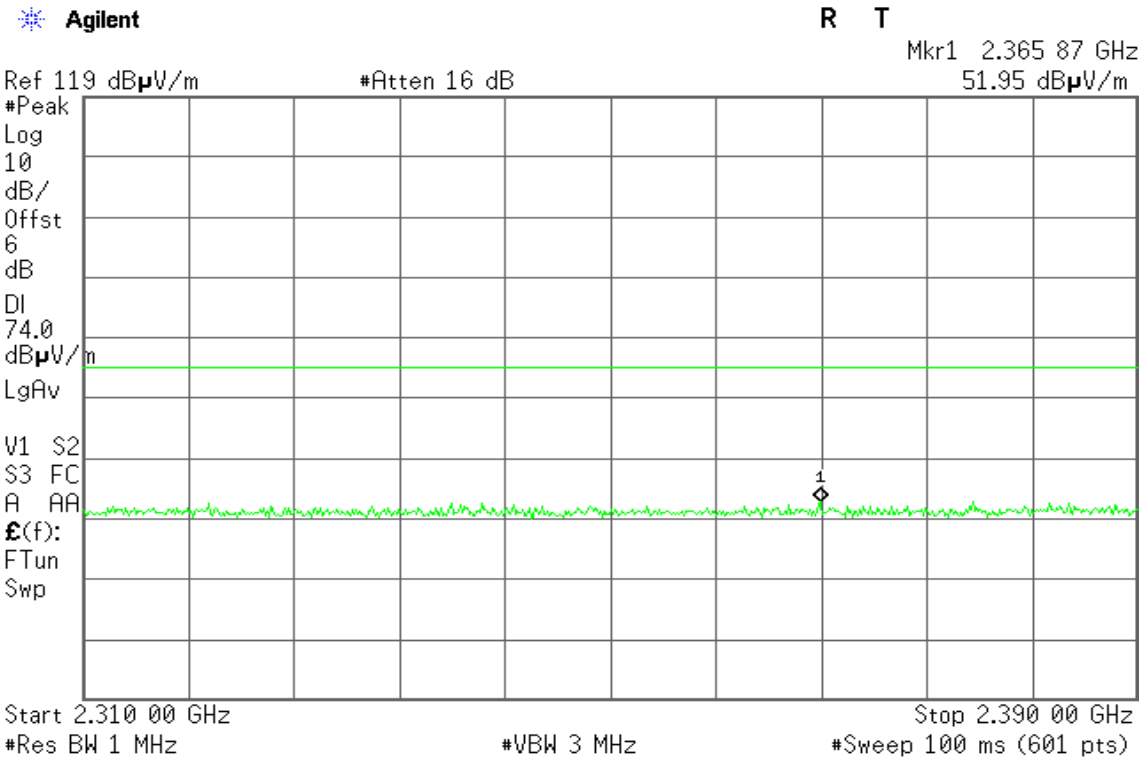


Detector mode: Average **Polarity: Horizontal**

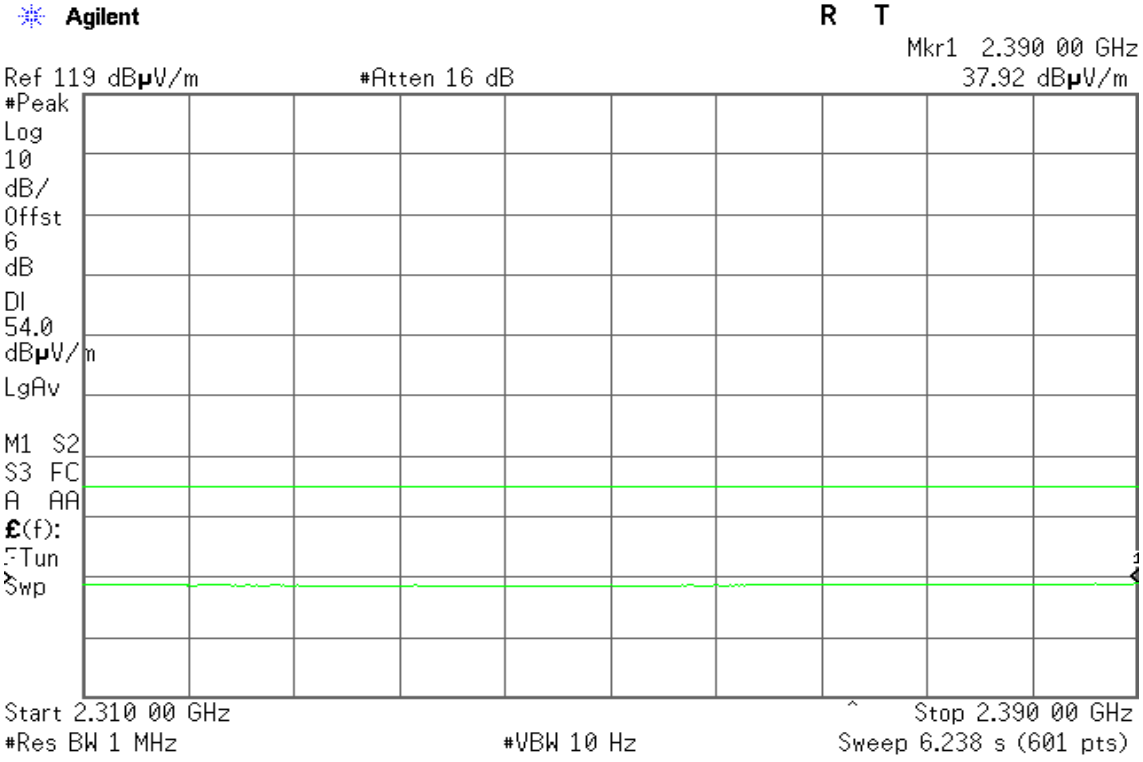


Band Edges (IEEE 802.11n HT 20 MHz mode / CH Low)

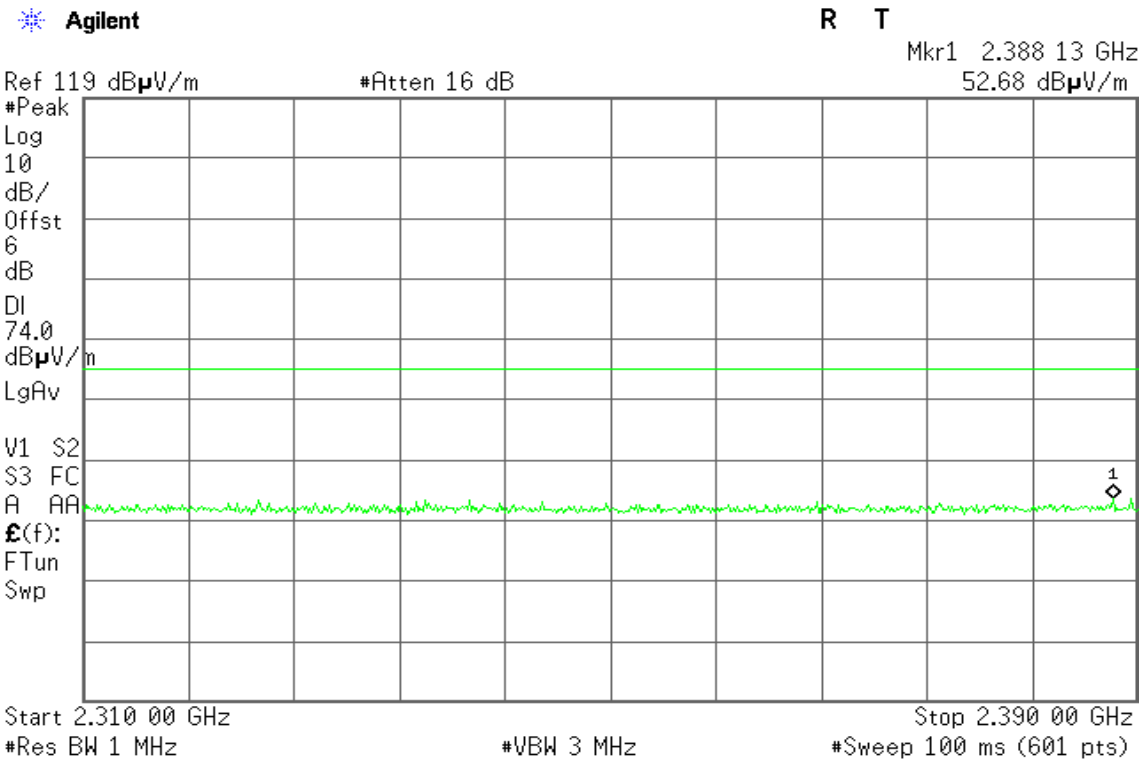
Detector mode: Peak **Polarity: Vertical**



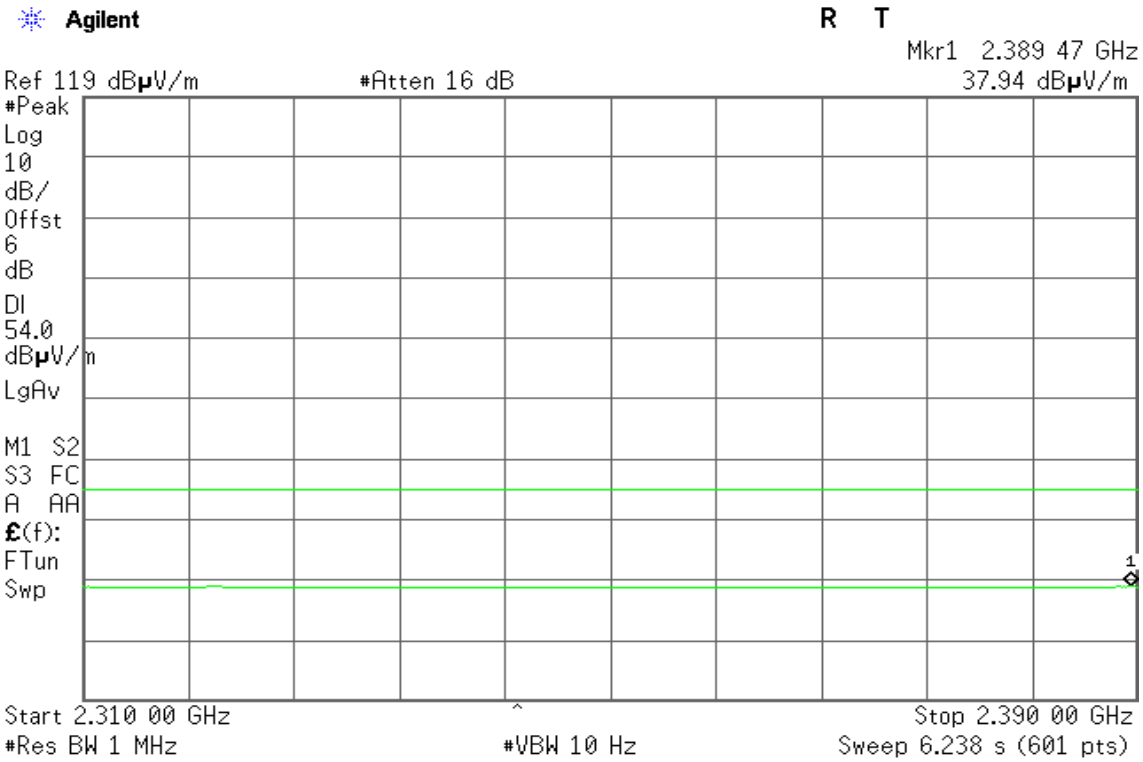
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

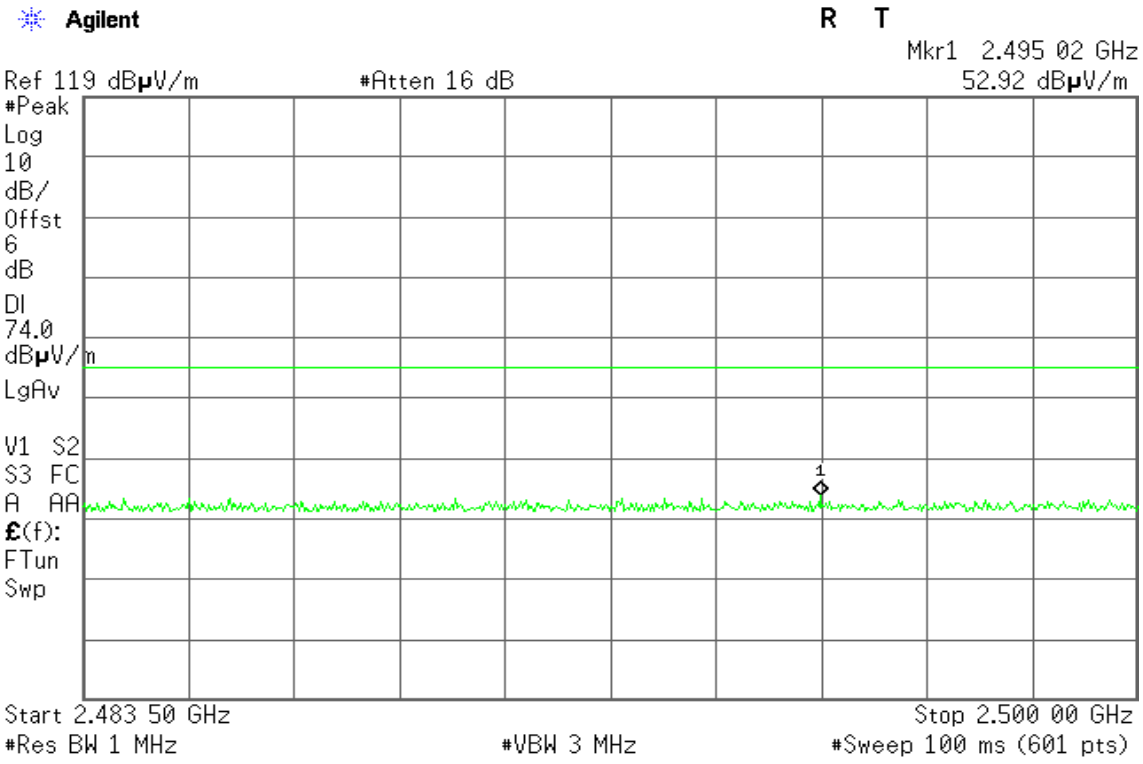


Detector mode: Average **Polarity: Horizontal**

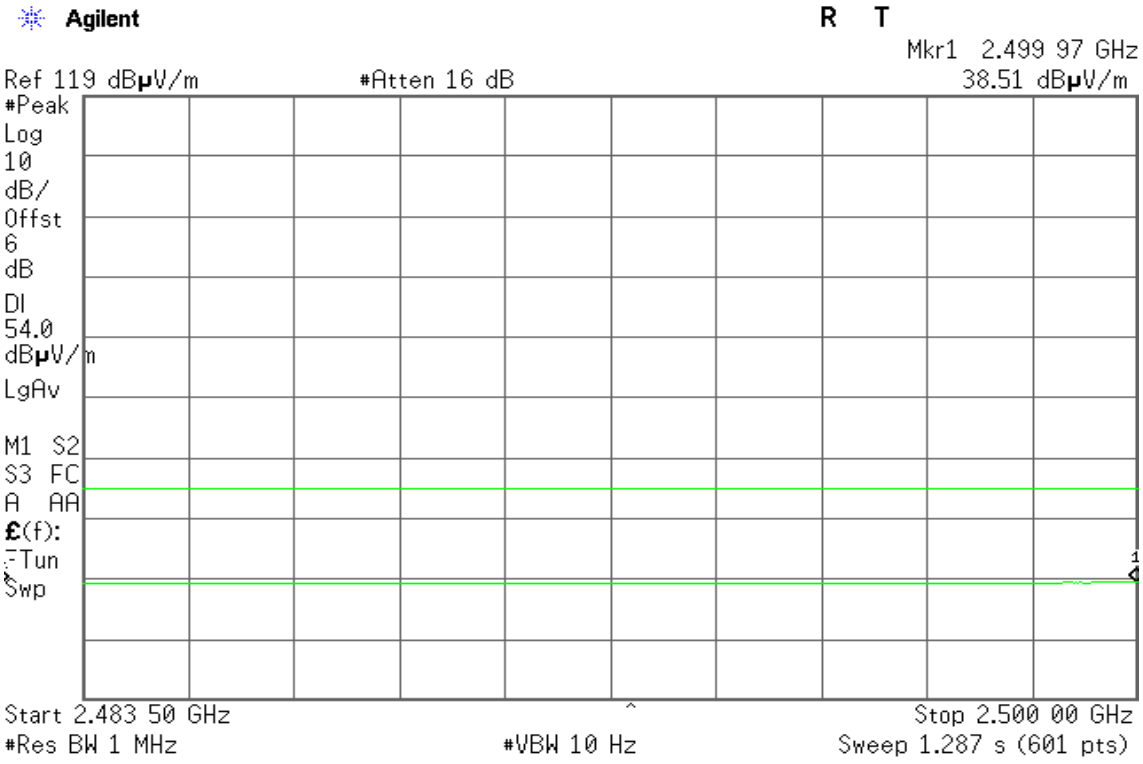


Band Edges (IEEE 802.11n HT 20 MHz mode / CH High)

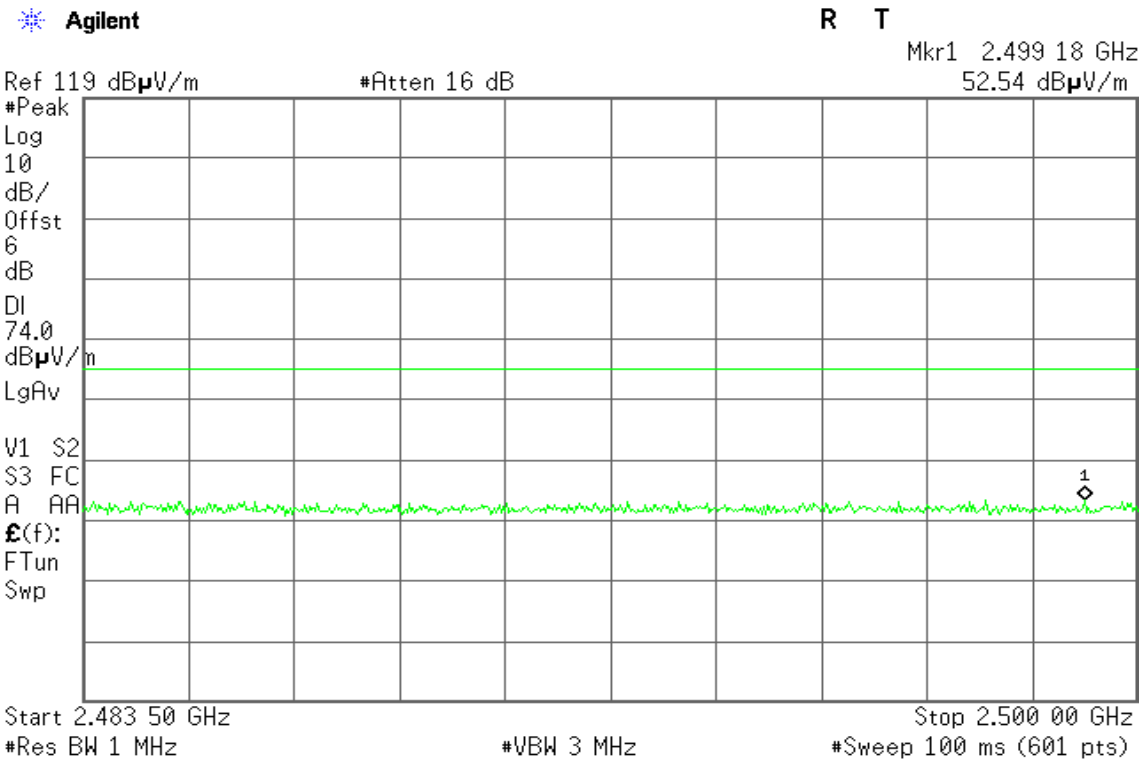
Detector mode: Peak **Polarity: Vertical**



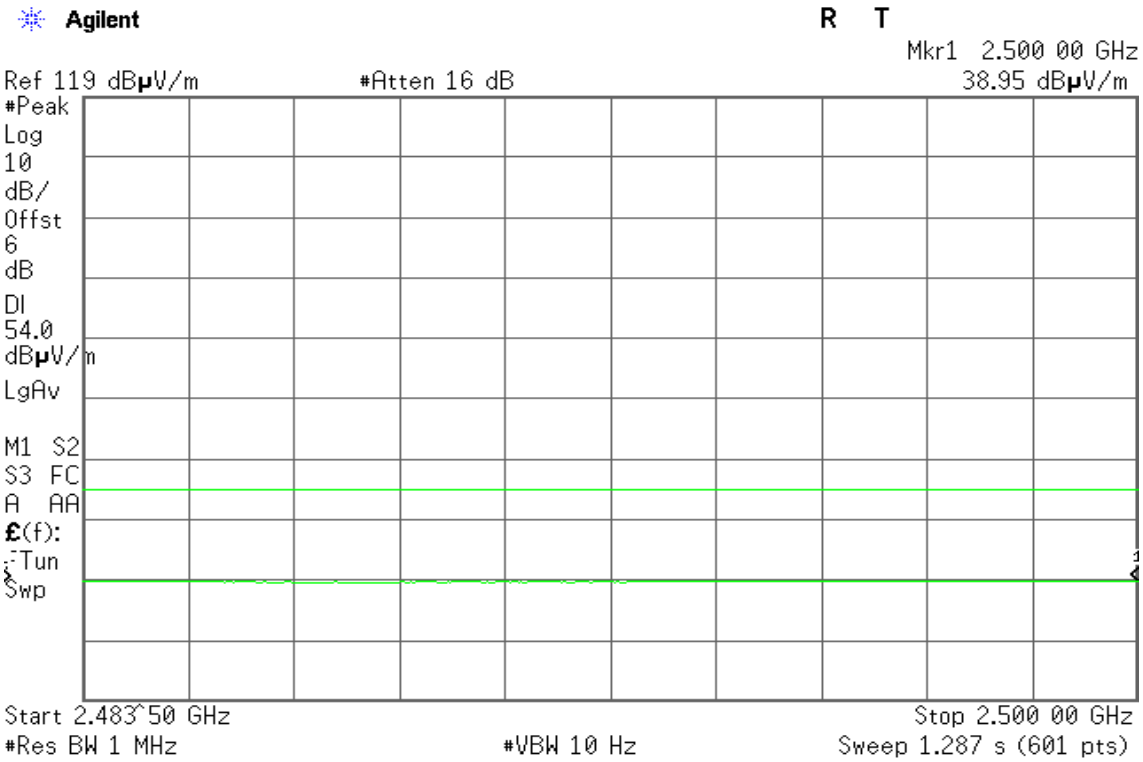
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

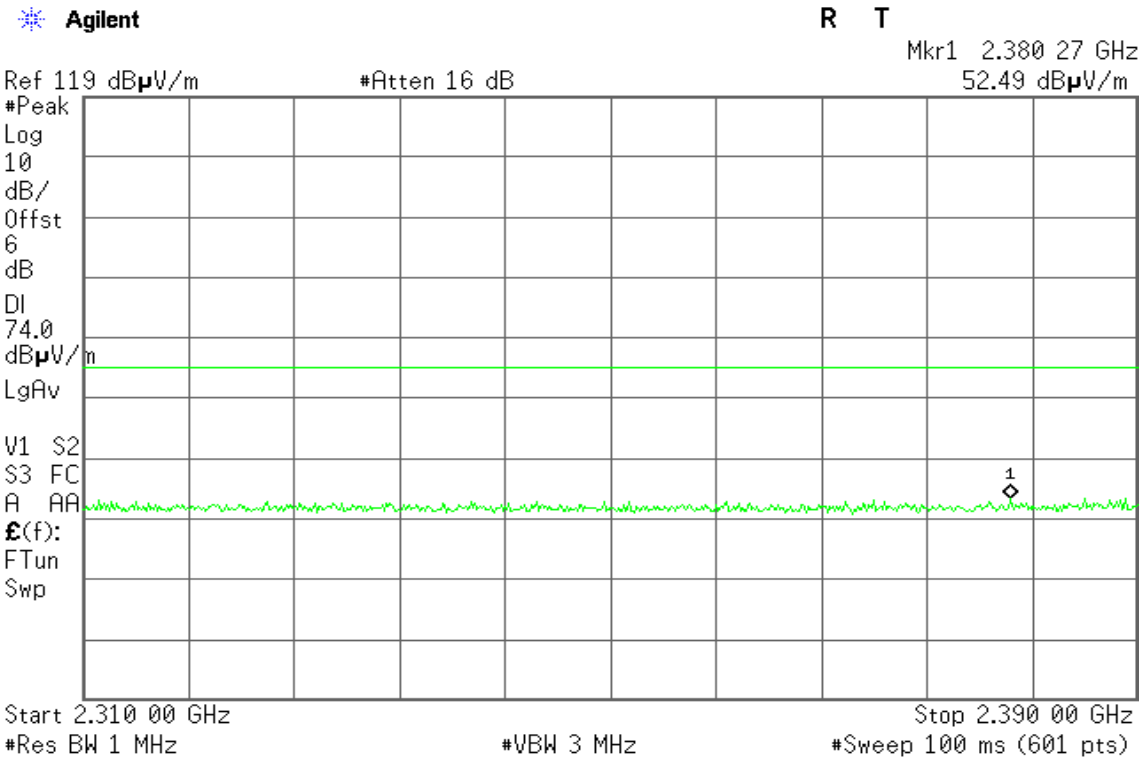


Detector mode: Average **Polarity: Horizontal**

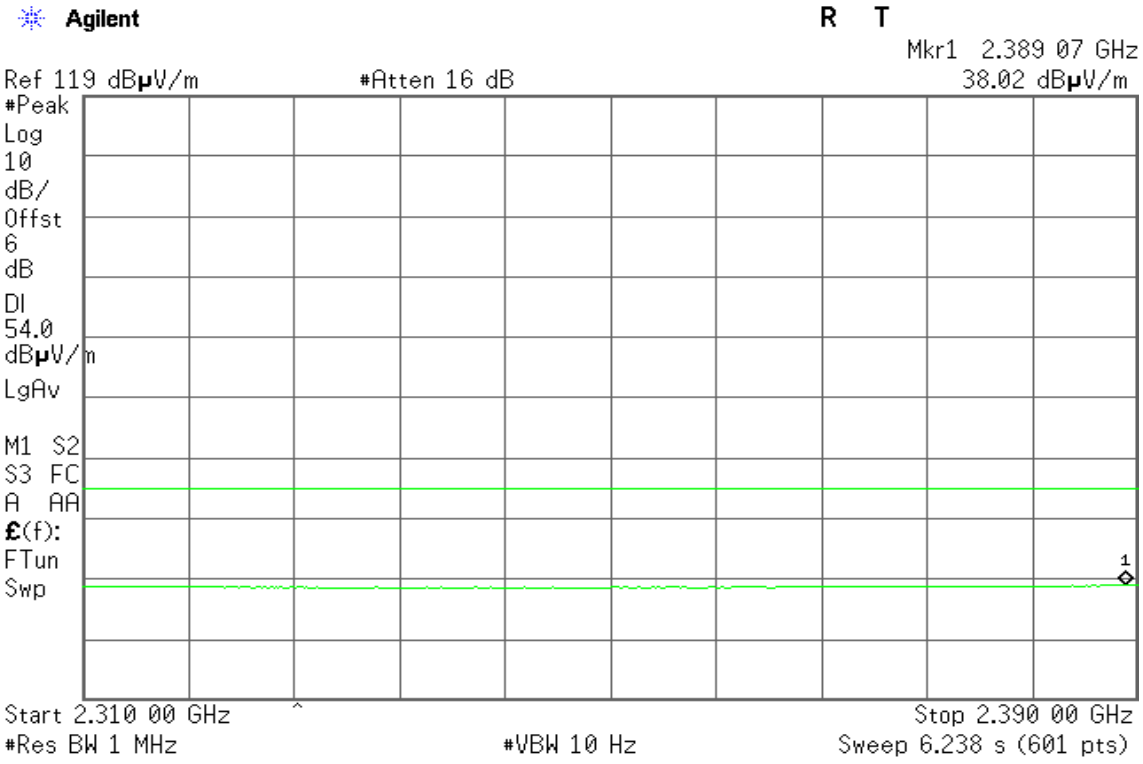


Band Edges (IEEE 802.11n HT 40 MHz mode / CH Low)

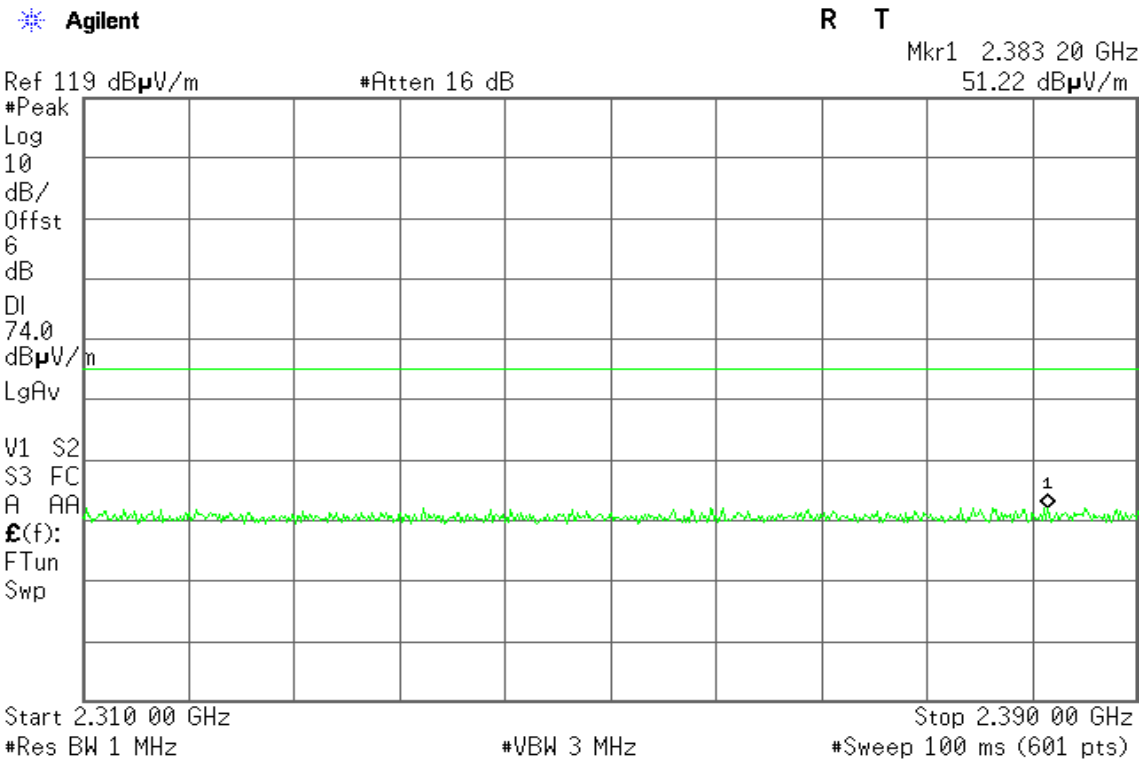
Detector mode: Peak **Polarity: Vertical**



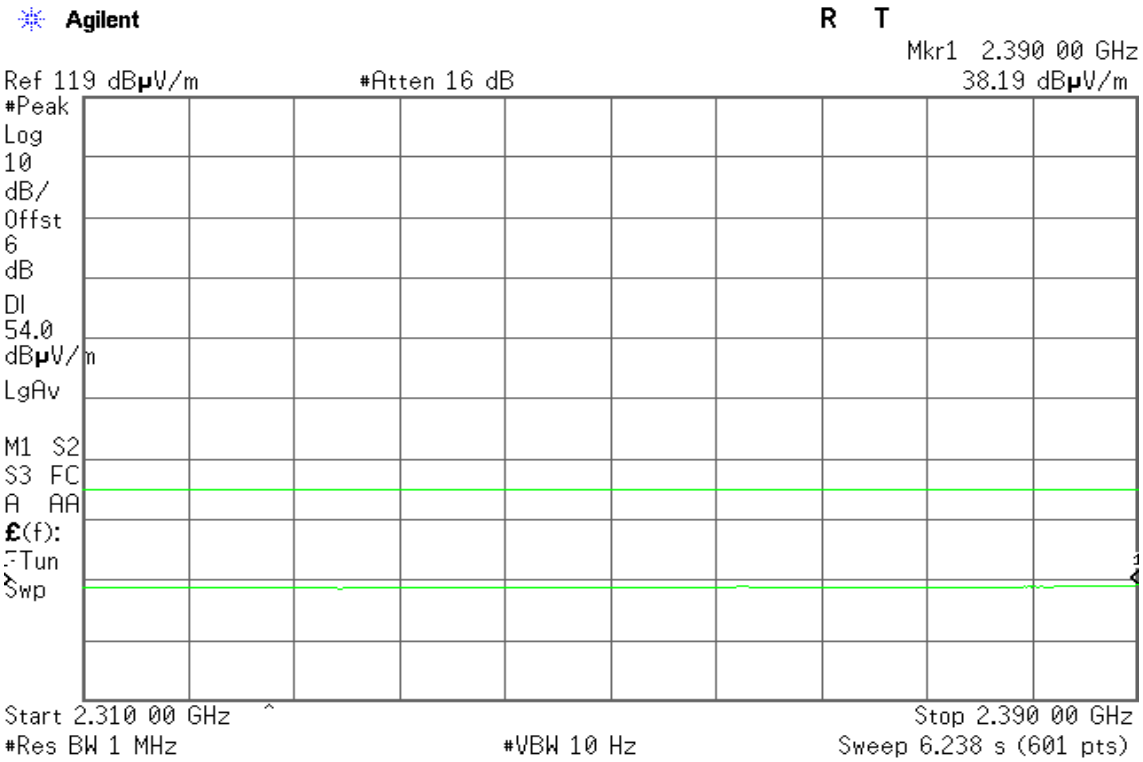
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

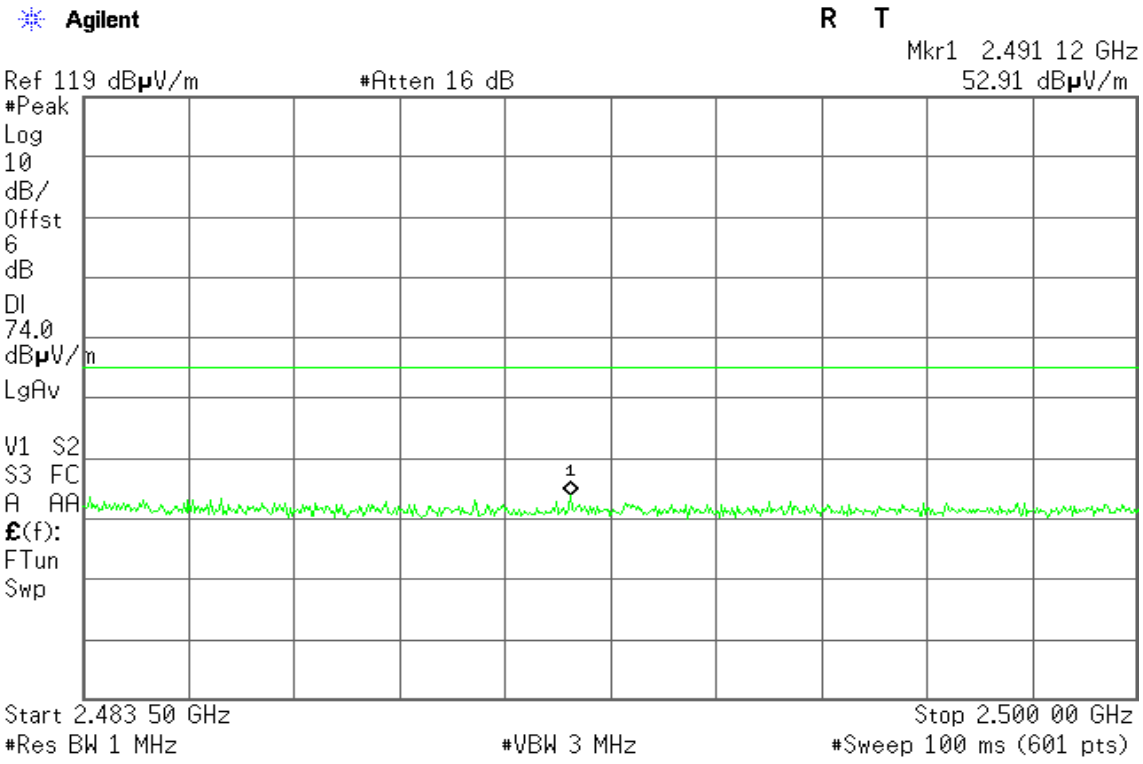


Detector mode: Average **Polarity: Horizontal**

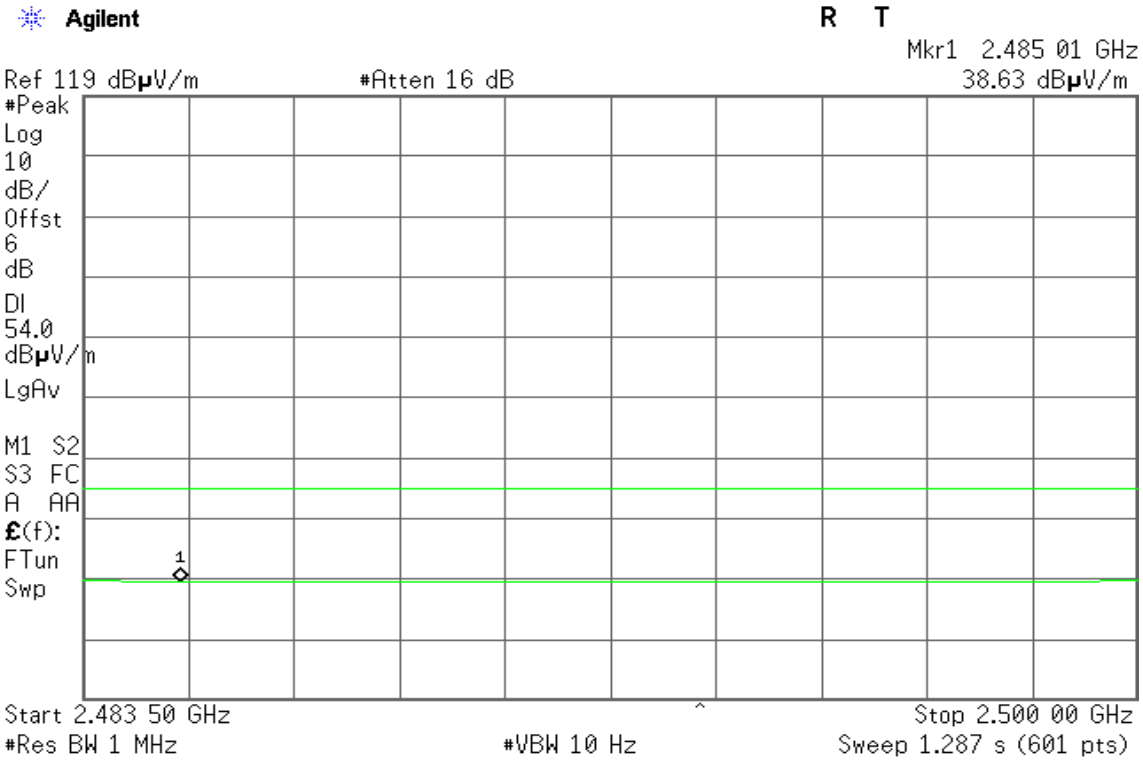


Band Edges (IEEE 802.11n HT 40 MHz mode / CH High)

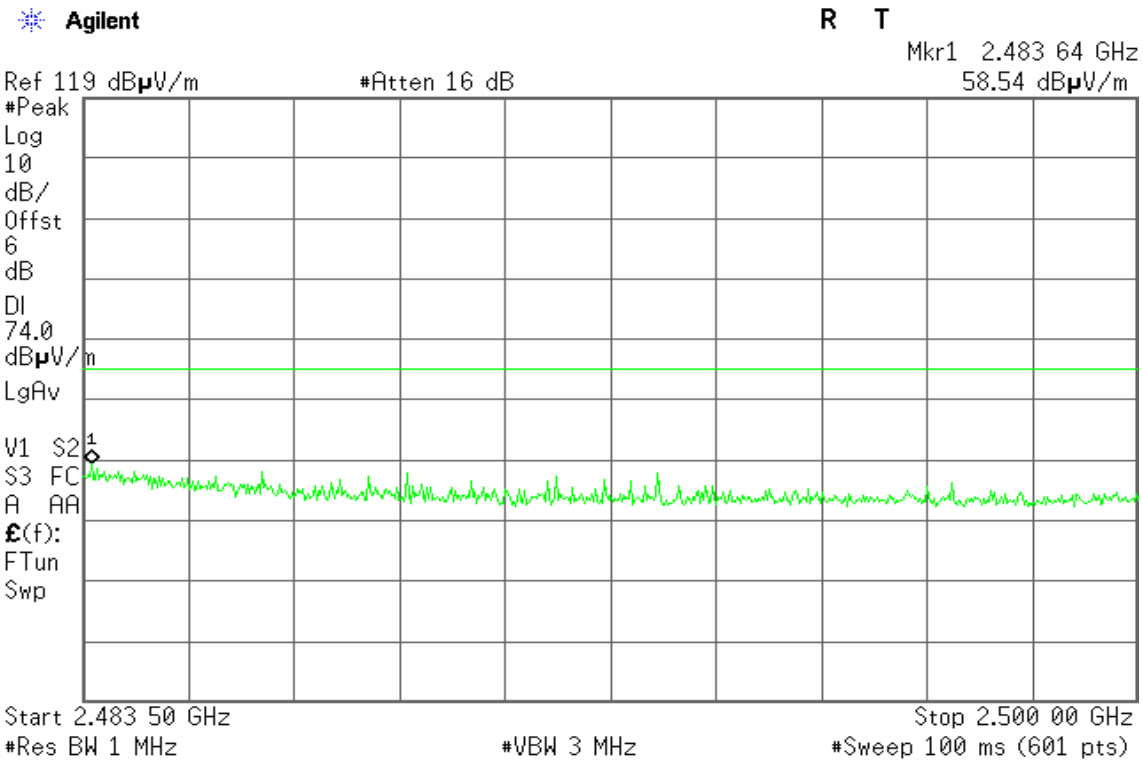
Detector mode: Peak **Polarity: Vertical**



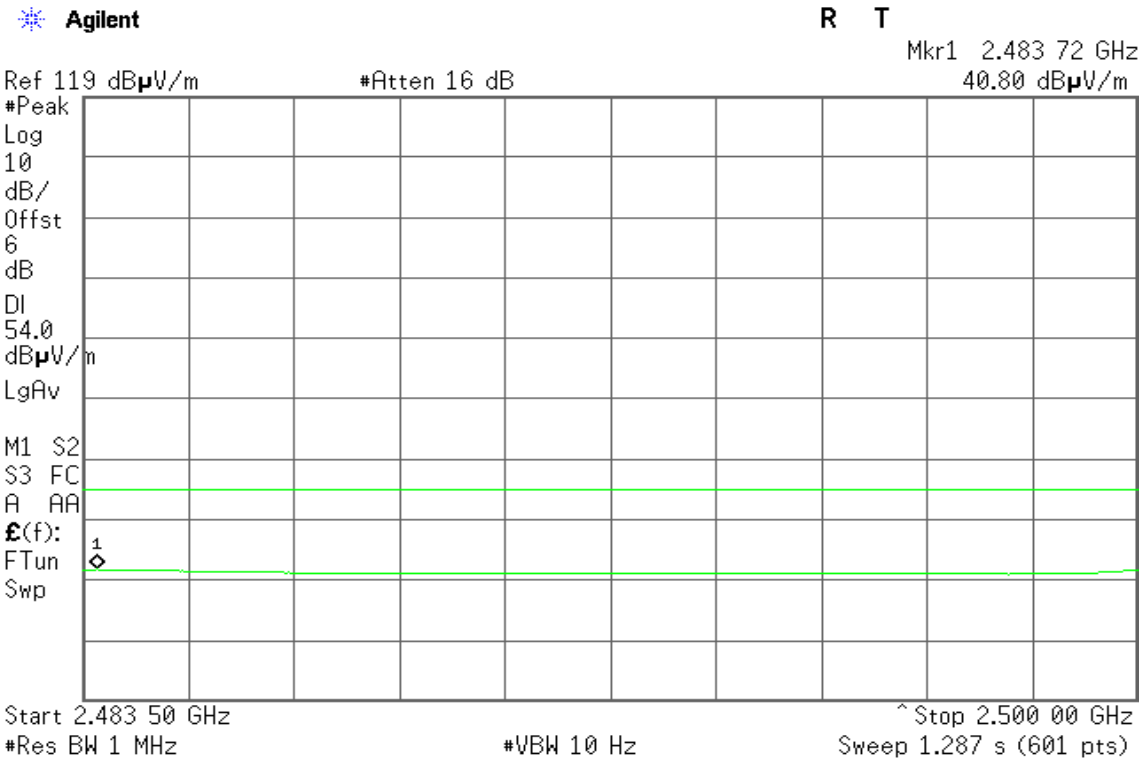
Detector mode: Average **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

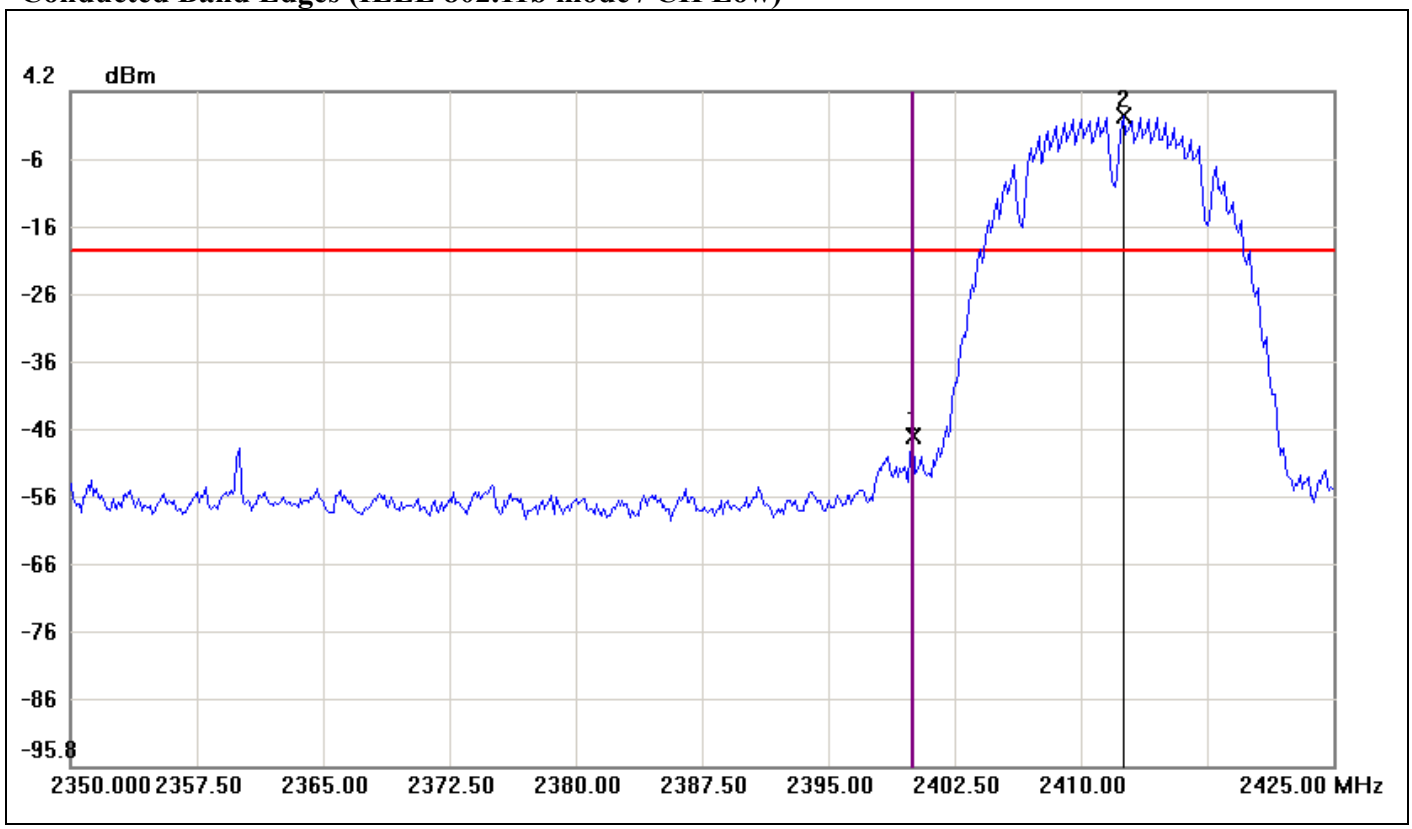


Detector mode: Average **Polarity: Horizontal**



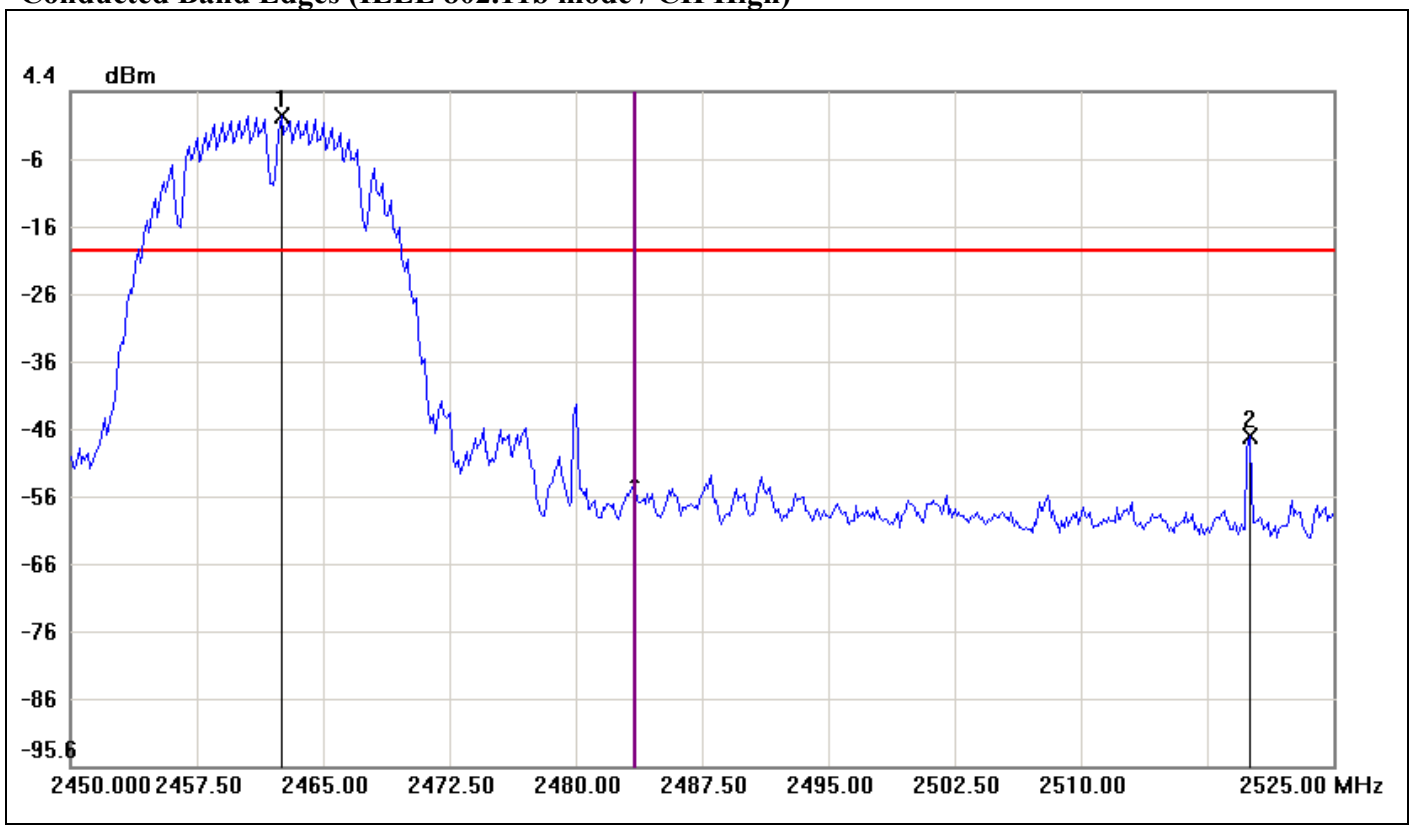
Test Plot

Conducted Band Edges (IEEE 802.11b mode / CH Low)



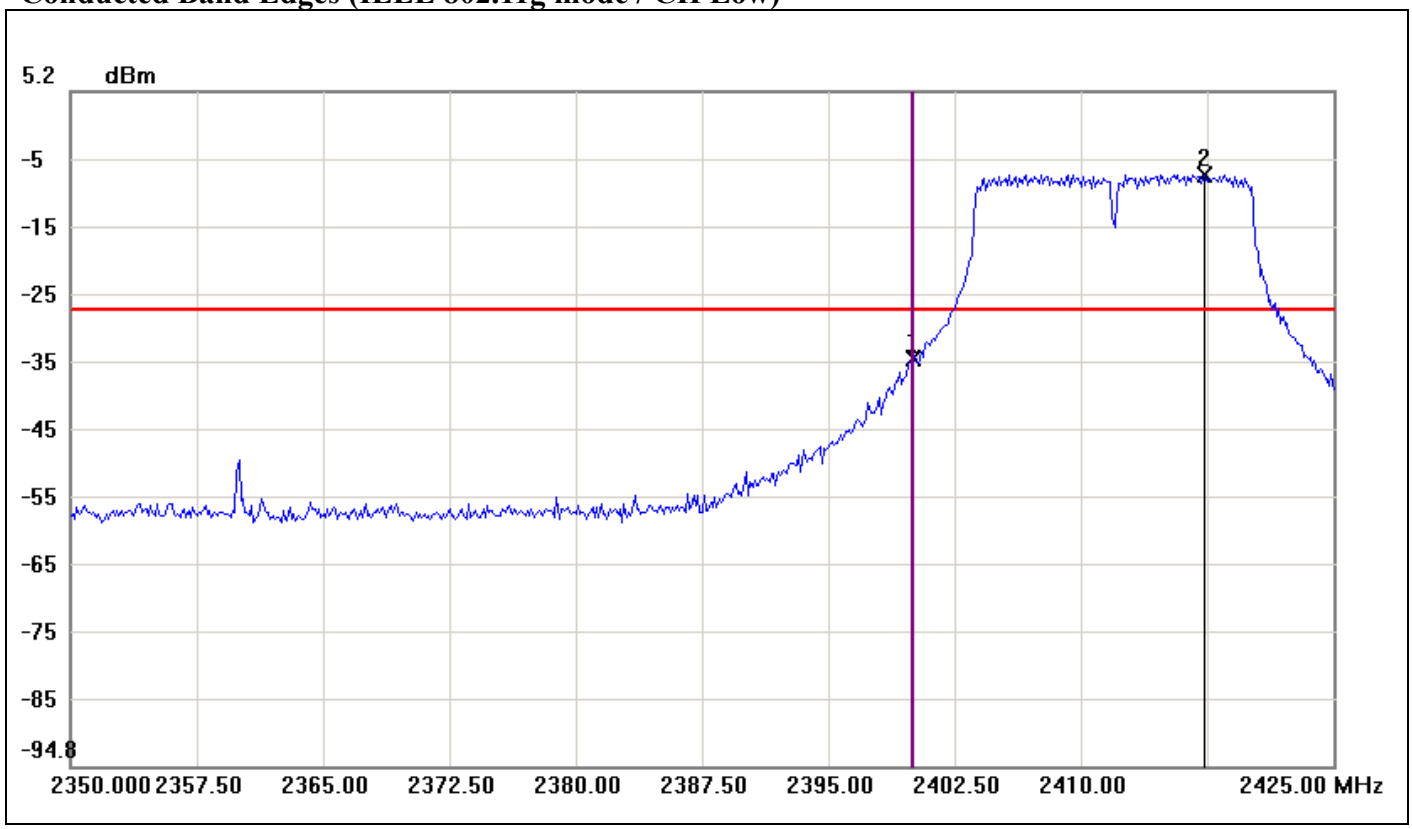
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-47.01	-19.52	-27.49
2	2412.5000	0.48	-19.52	20.00

Conducted Band Edges (IEEE 802.11b mode / CH High)



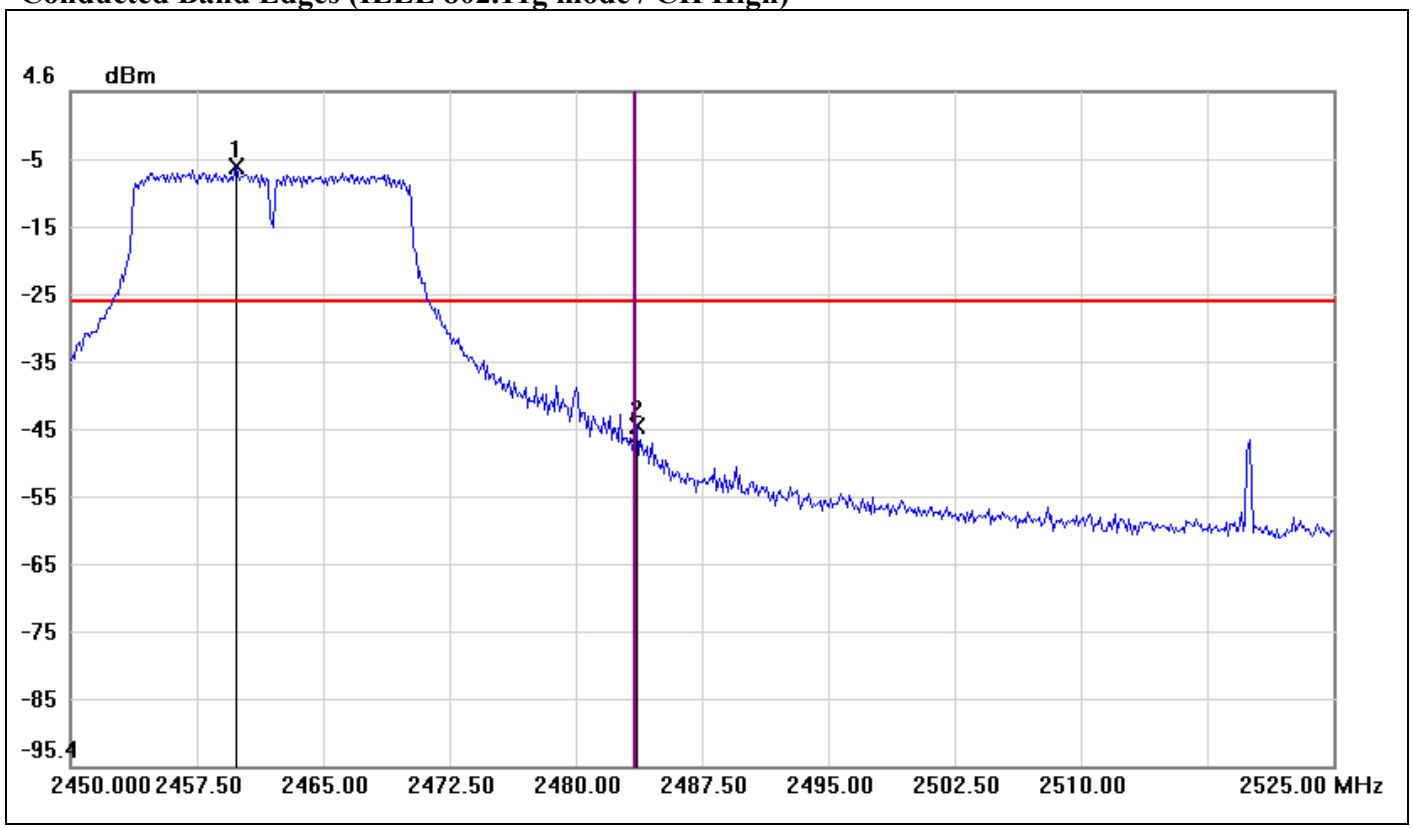
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2462.5000	0.83	-19.17	20.00
2	2520.0000	-46.80	-19.17	-27.63

Conducted Band Edges (IEEE 802.11g mode / CH Low)



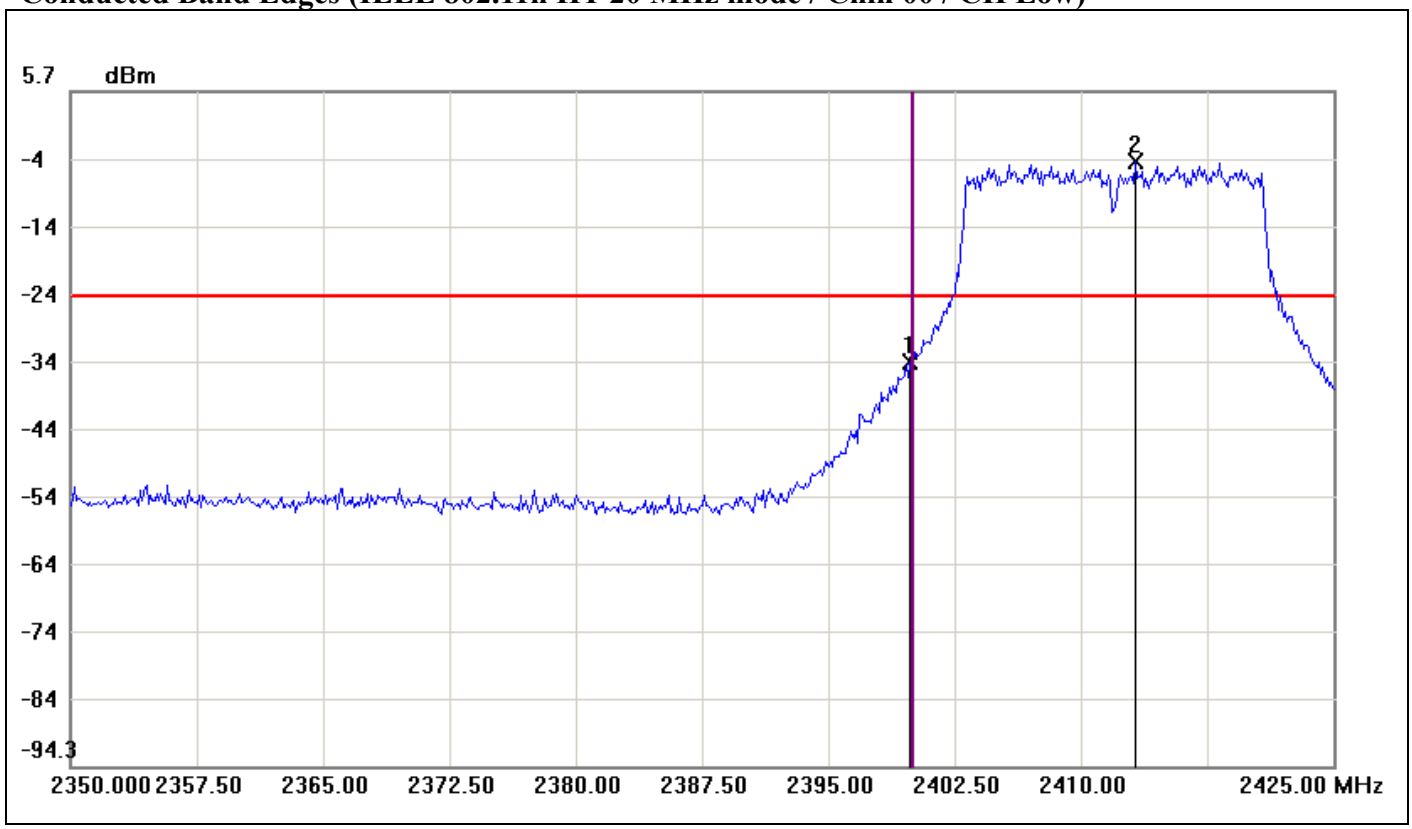
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-34.36	-27.13	-7.23
2	2417.3750	-7.13	-27.13	20.00

Conducted Band Edges (IEEE 802.11g mode / CH High)



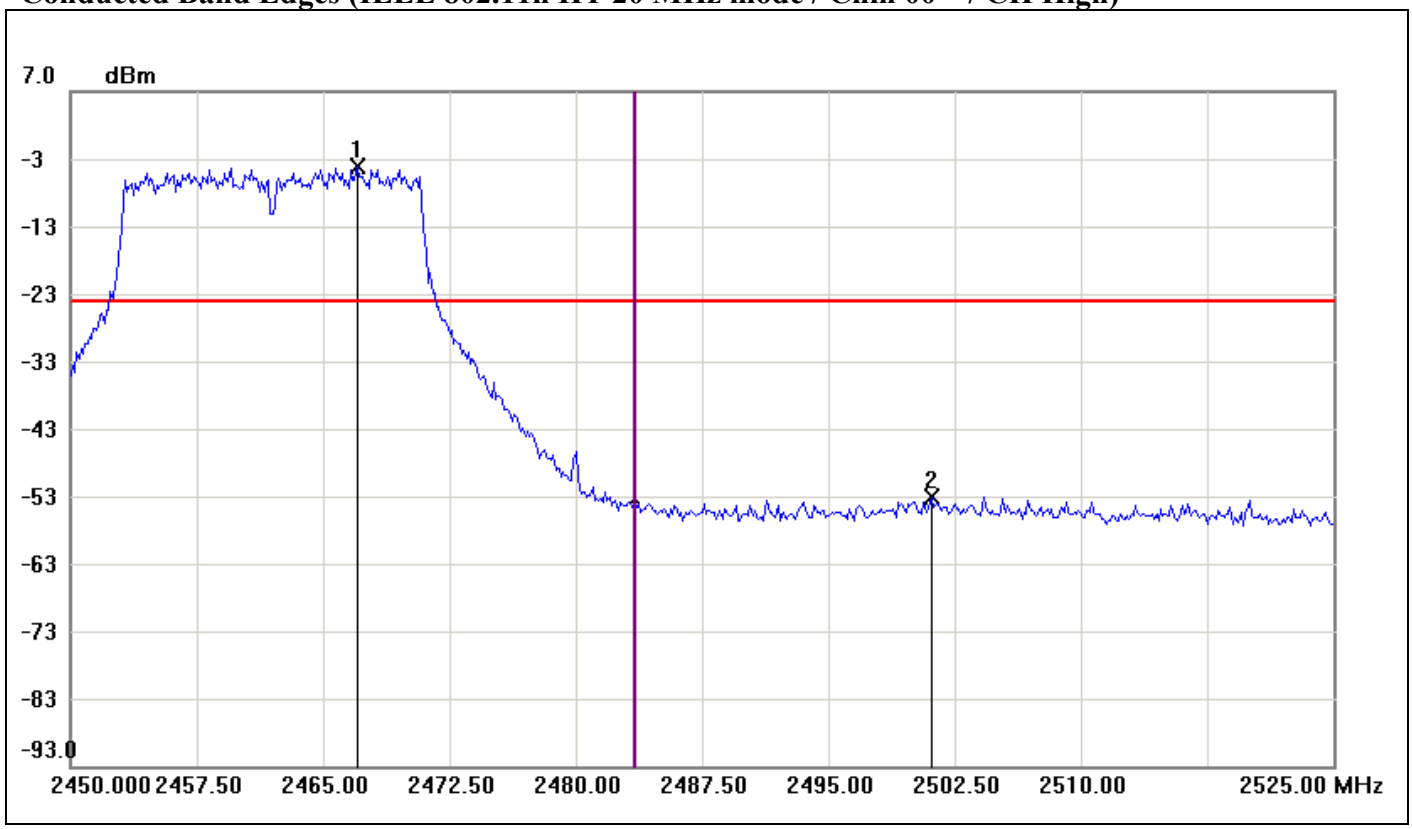
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.8750	-6.61	-26.61	20.00
2	2483.6250	-45.05	-26.61	-18.44

Conducted Band Edges (IEEE 802.11n HT 20 MHz mode / Chin 00 / CH Low)



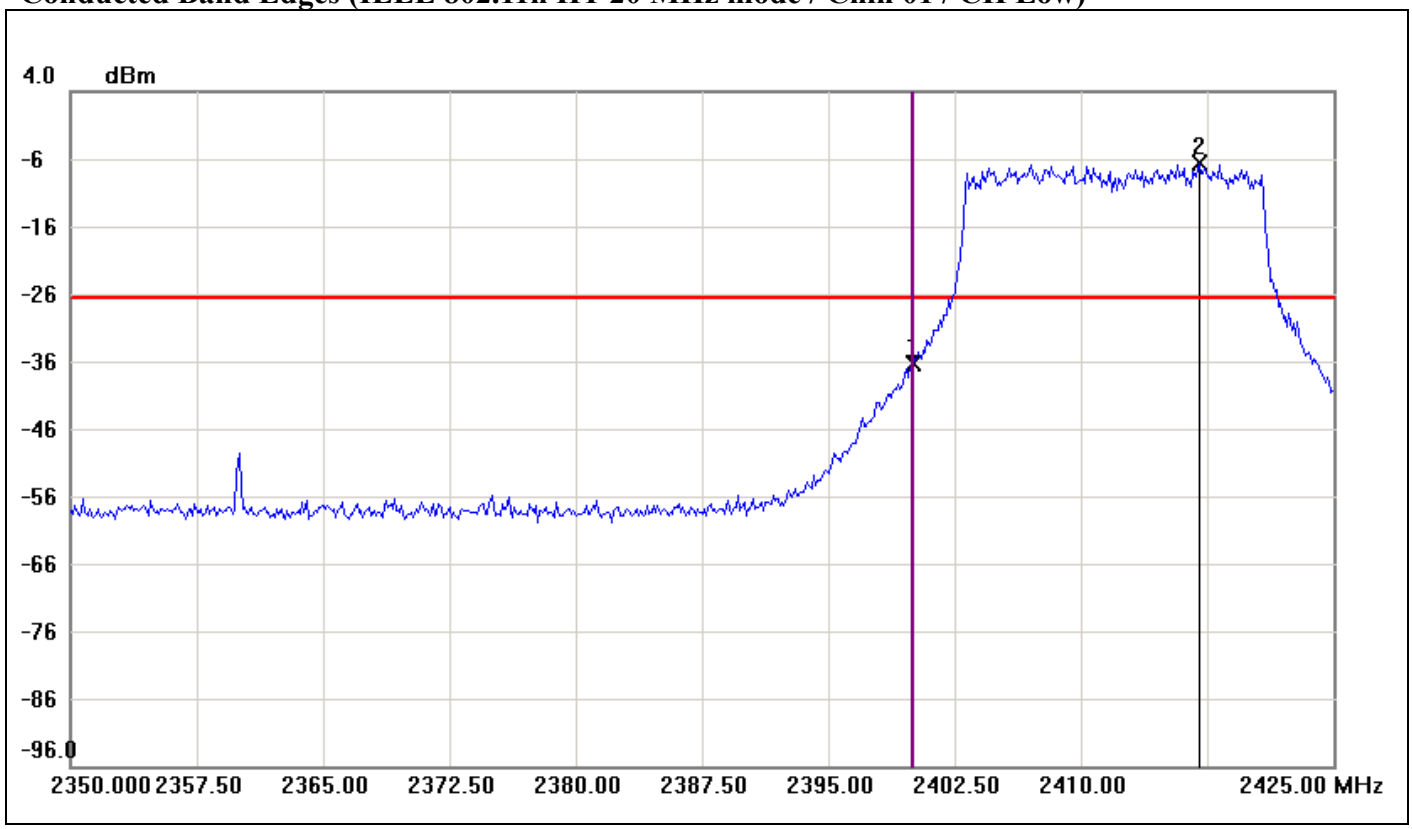
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2399.8750	-34.55	-24.83	-9.72
2	2413.2500	-4.83	-24.83	20.00

Conducted Band Edges (IEEE 802.11n HT 20 MHz mode / Chin 00 / CH High)



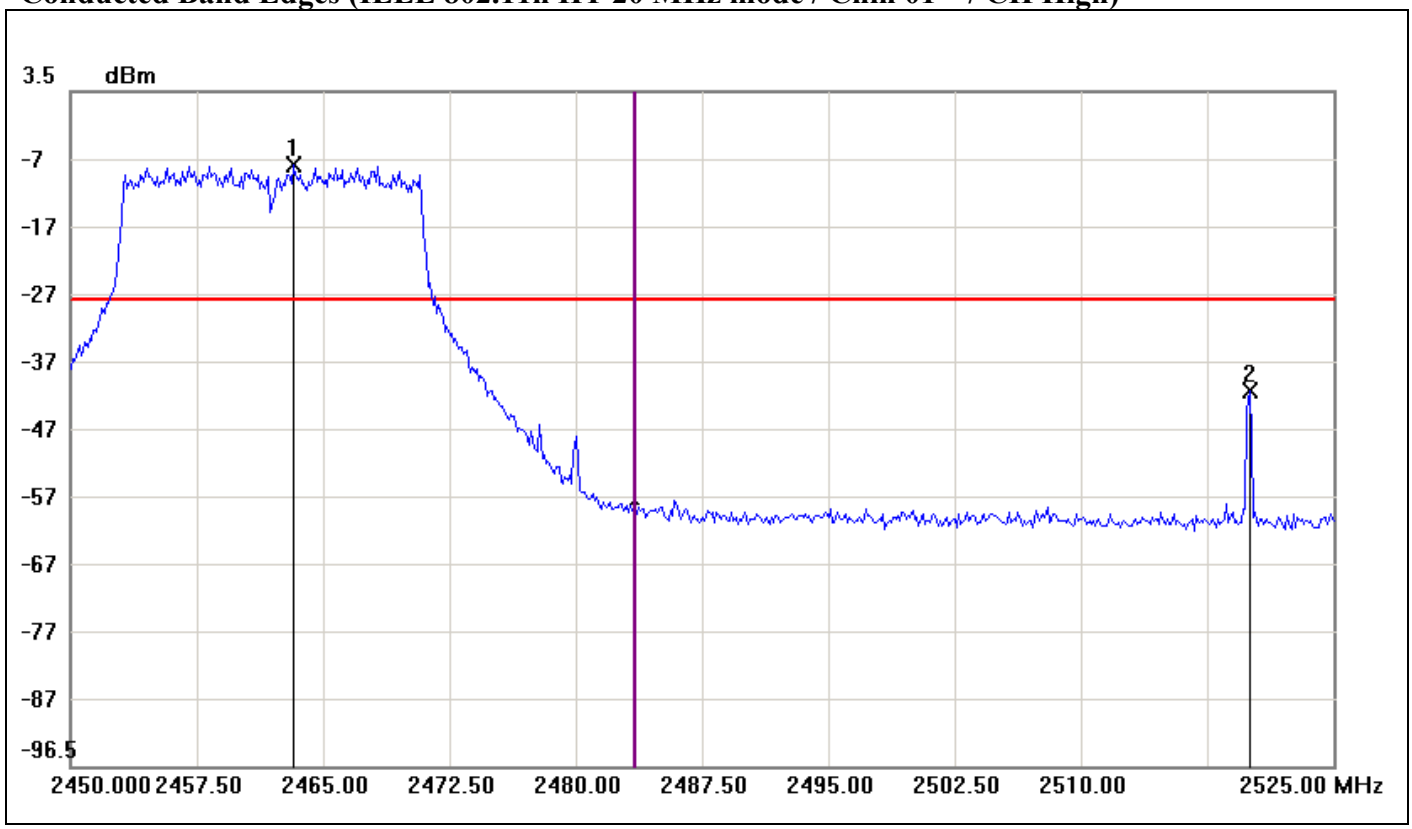
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2467.0000	-4.24	-24.24	20.00
2	2501.1250	-53.10	-24.24	-28.86

Conducted Band Edges (IEEE 802.11n HT 20 MHz mode / Chin 01 / CH Low)



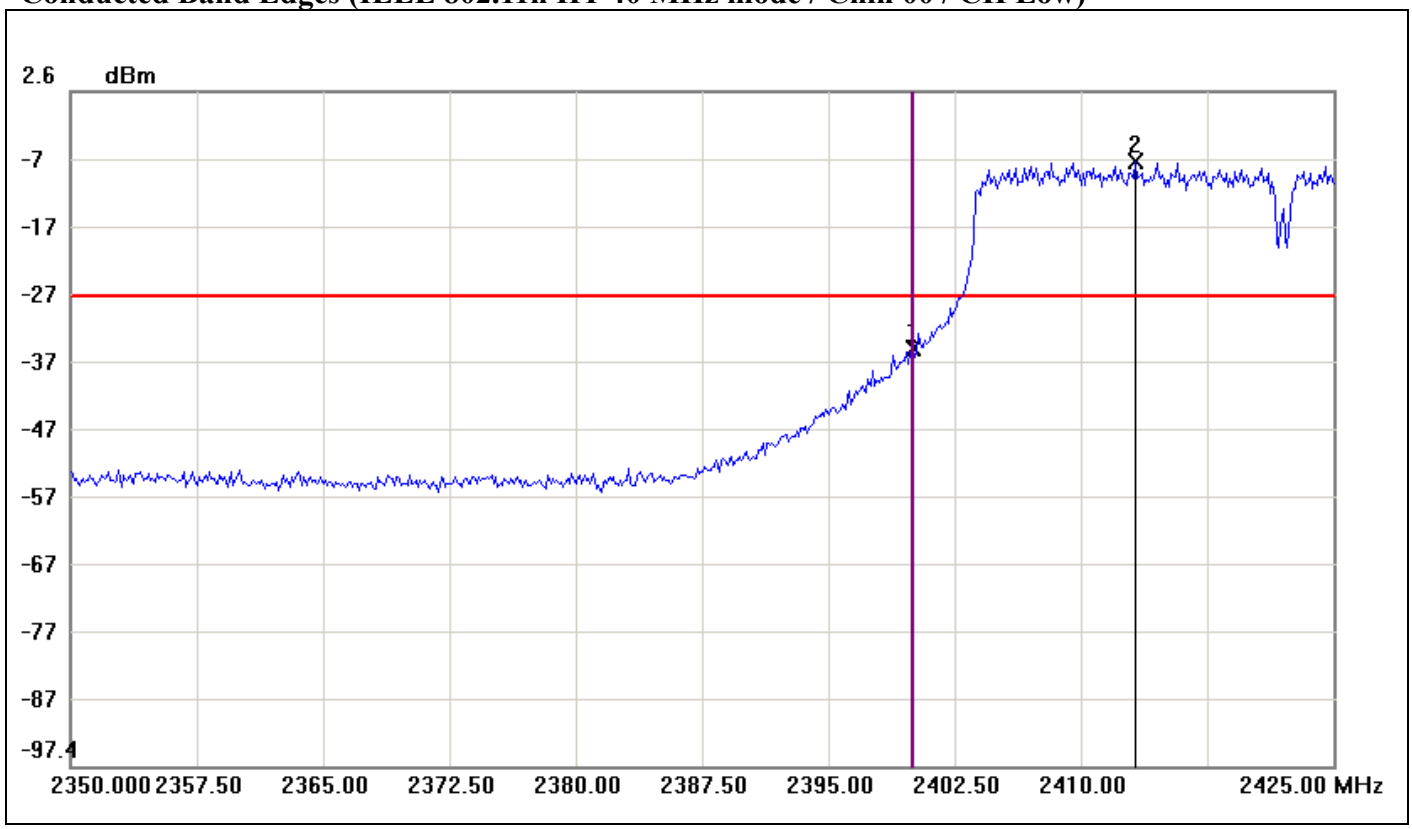
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-36.27	-26.73	-9.54
2	2417.0000	-6.73	-26.73	20.00

Conducted Band Edges (IEEE 802.11n HT 20 MHz mode / Chin 01 / CH High)



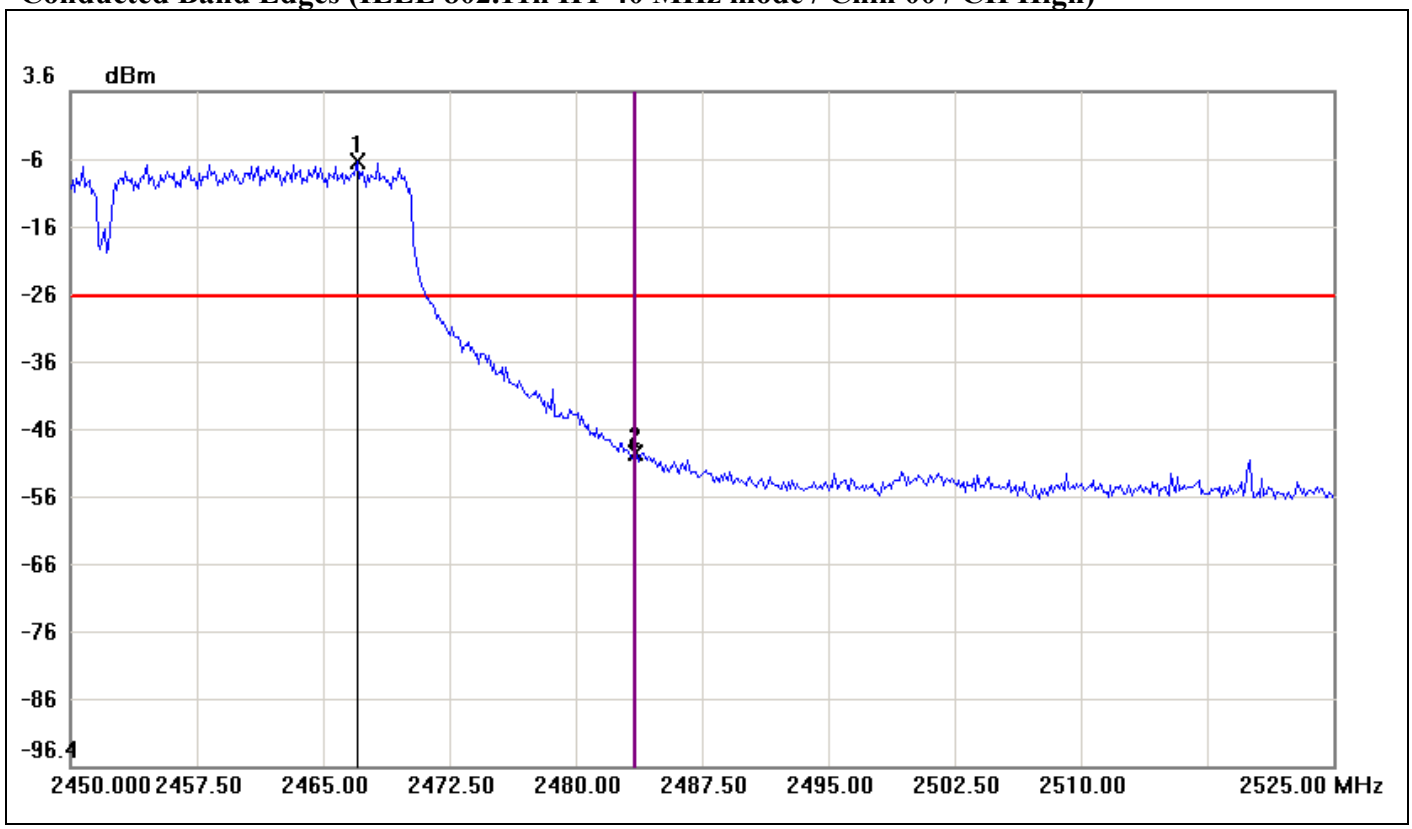
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2463.2500	-7.41	-27.41	20.00
2	2520.0000	-40.97	-27.41	-13.56

Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / Chin 00 / CH Low)



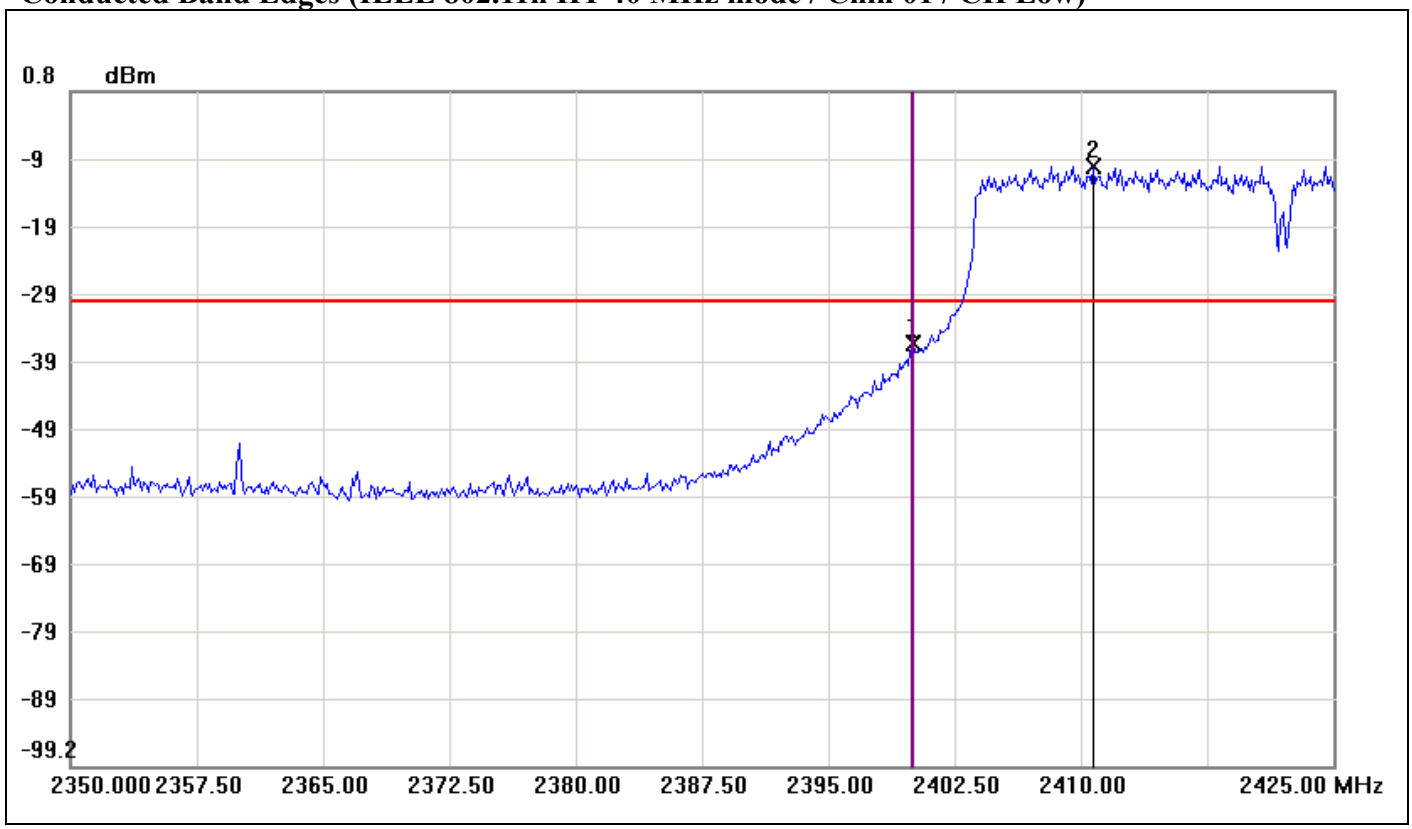
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-35.47	-27.67	-7.80
2	2413.2500	-7.67	-27.67	20.00

Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / Chin 00 / CH High)



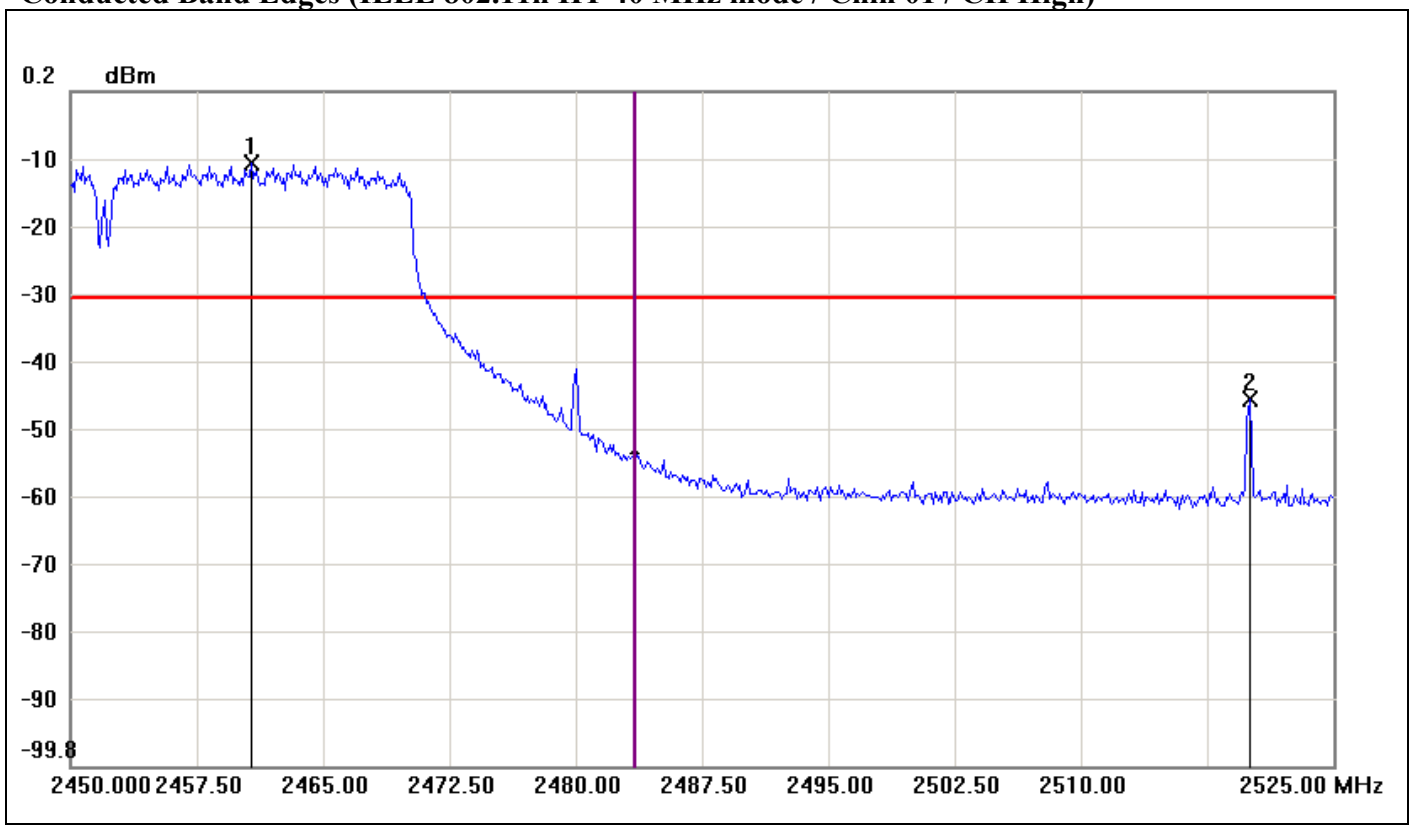
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2467.0000	-6.89	-26.89	20.00
2	2483.5000	-50.05	-26.89	-23.16

Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / Chin 01 / CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2400.0000	-36.67	-30.30	-6.37
2	2410.7500	-10.30	-30.30	20.00

Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / Chin 01 / CH High)



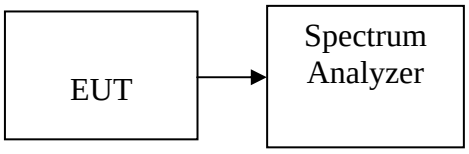
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2460.7500	-10.45	-30.45	20.00
2	2520.0000	-45.41	-30.45	-14.96

7.5 PEAK POWER SPECTRAL DENSITY

LIMIT

1. 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 8 dBm in any 3 kHz band during any time interval of continuous transmission.
2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
   Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW=10kHz,VBW=100kHz, span to 1.5 times the DTS bandwidth, Sweep time = auto couple.
3. Record the max reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-6.84	8.00	PASS
Mid	2437	-4.67		PASS
High	2462	-6.73		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-11.64	8.00	PASS
Mid	2437	-11.61		PASS
High	2462	-12.37		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-12.20	-11.77	-8.97	8.00	PASS
Mid	2437	-10.75	-13.70	-8.97		PASS
High	2462	-11.76	-14.55	-9.92		PASS

Test mode: IEEE 802.11n HT 40 MHz mode

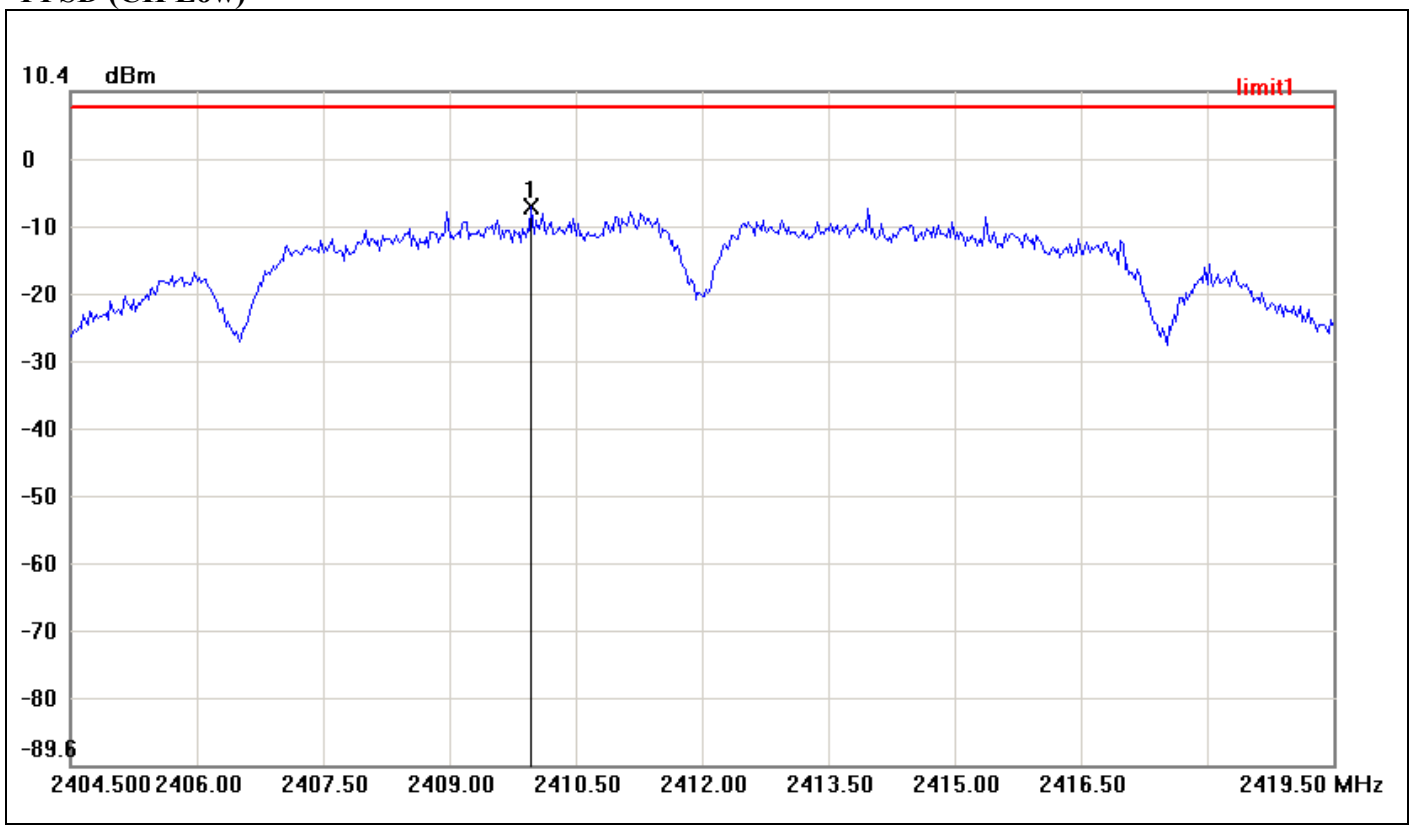
Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	Limit (dBm)	Result
Low	2422	-15.59	-17.87	-13.57	8.00	PASS
Mid	2437	-14.70	-17.38	-12.83		PASS
High	2452	-14.30	-17.45	-12.59		PASS

Remark: *Total PPSD (dBm) = 10*LOG(10^(Chain 0 PPSD / 10)+10^(Chain 2 PPSD /10))*

Test Plot

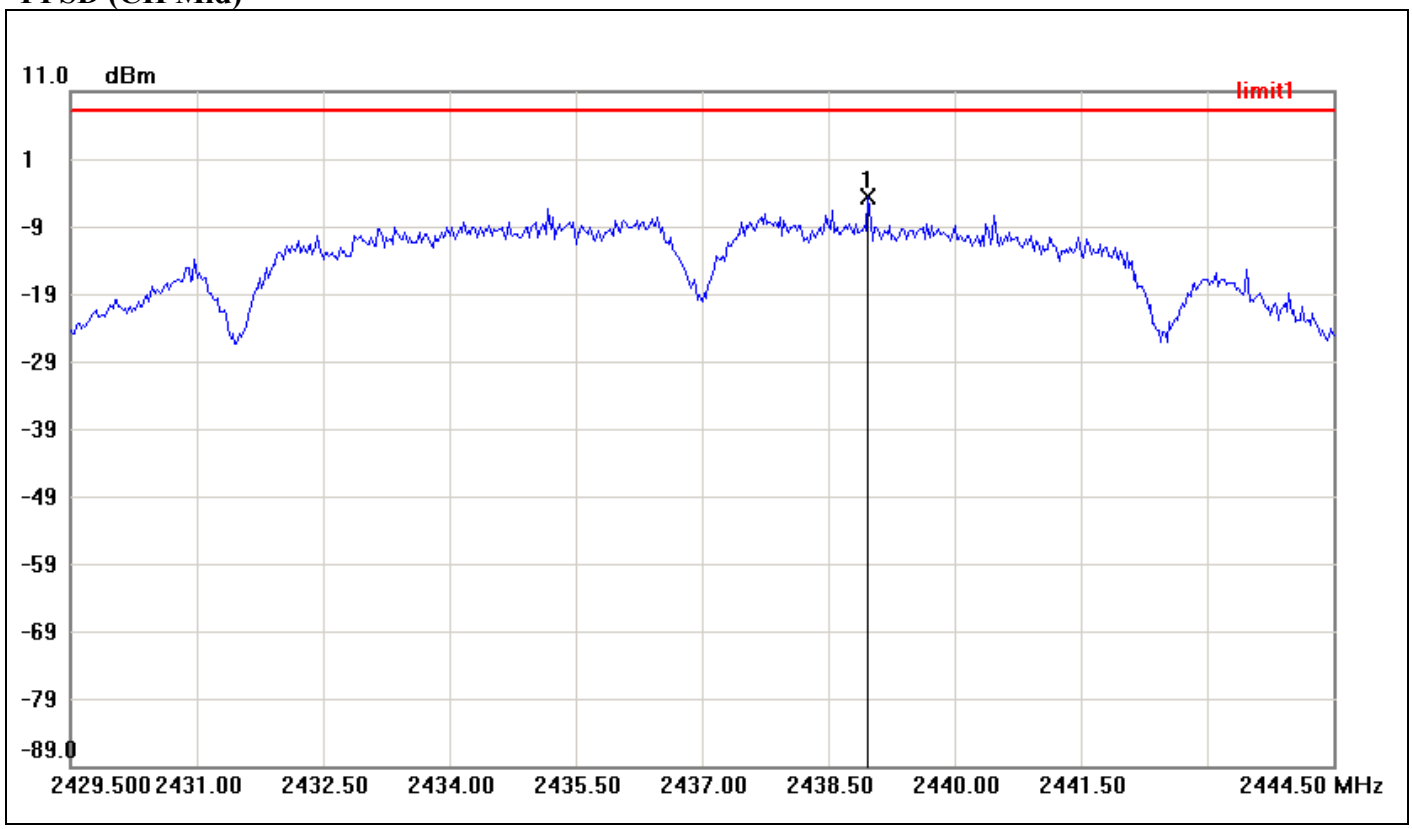
IEEE 802.11b mode

PPSD (CH Low)



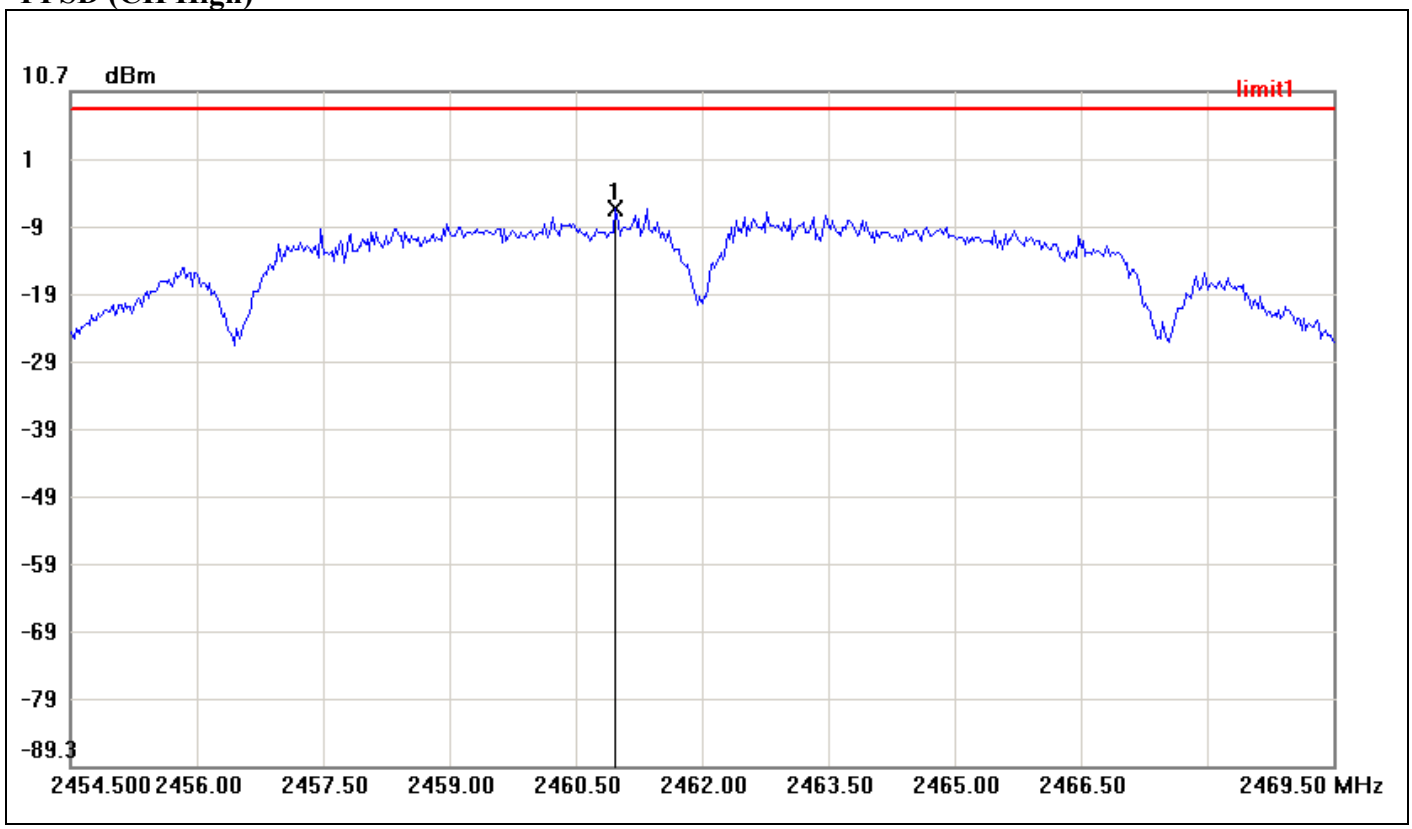
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2409.9750	-6.84	8.00	-14.84

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2438.9750	-4.67	8.00	-12.67

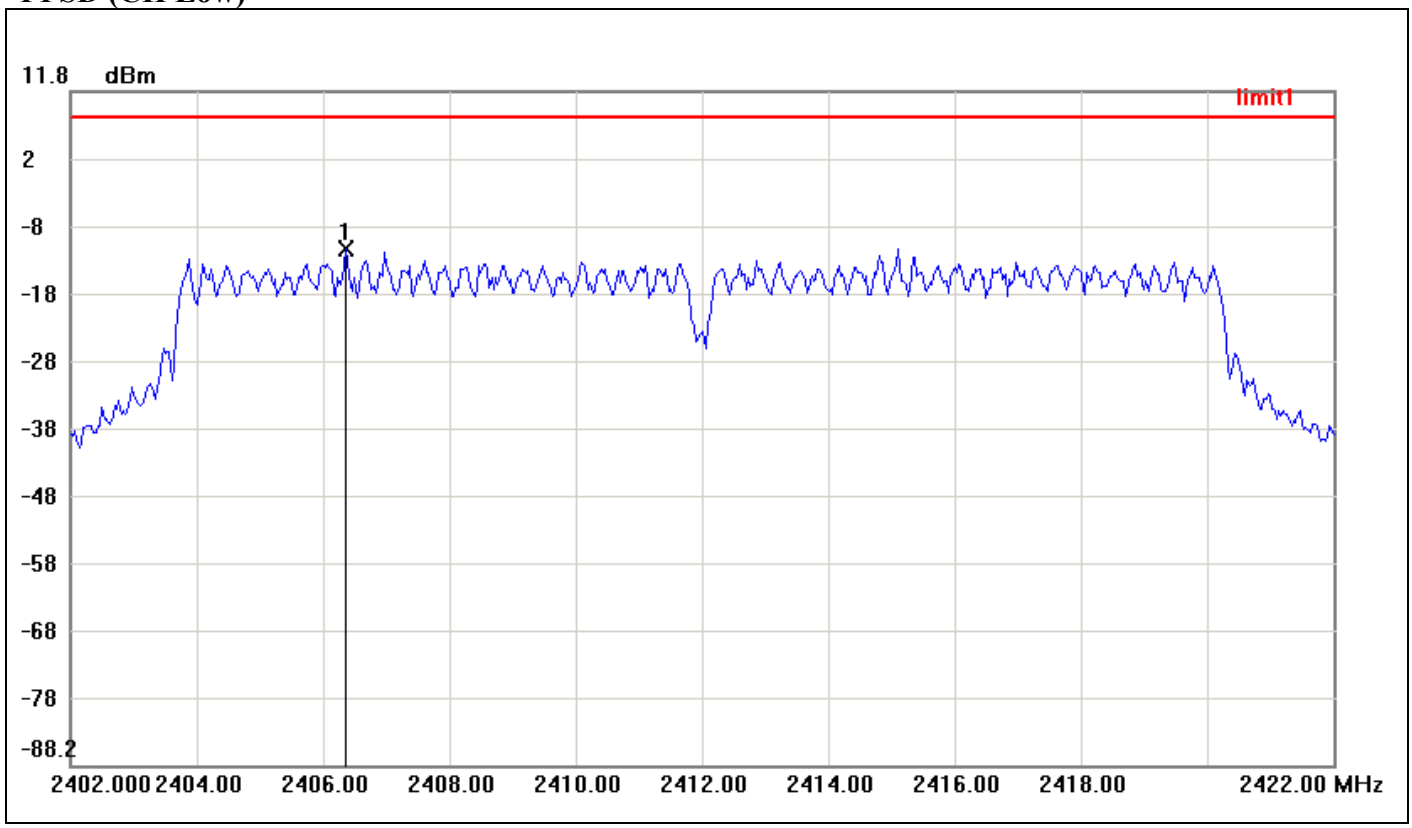
PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2460.9750	-6.73	8.00	-14.73

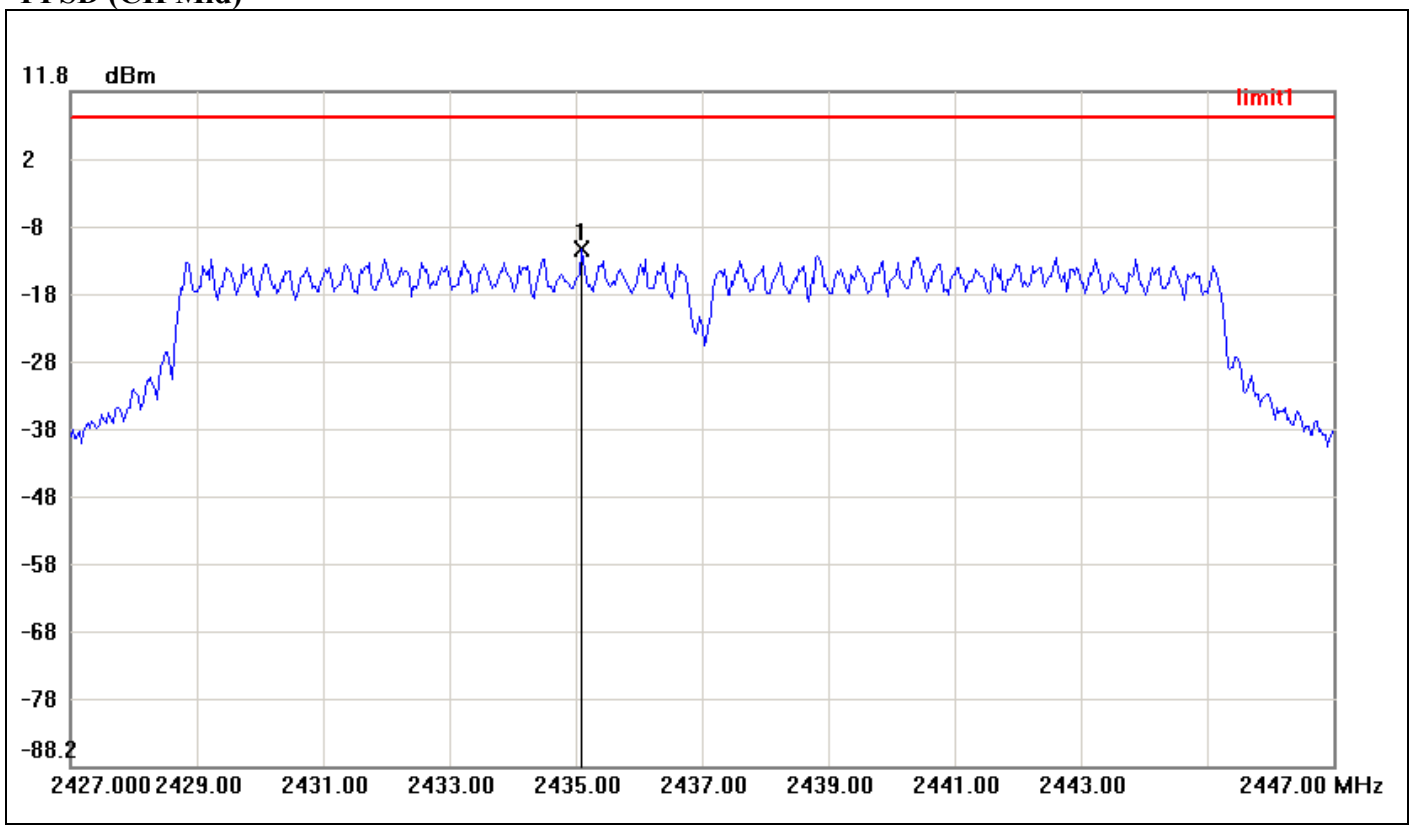
IEEE 802.11g mode

PPSD (CH Low)



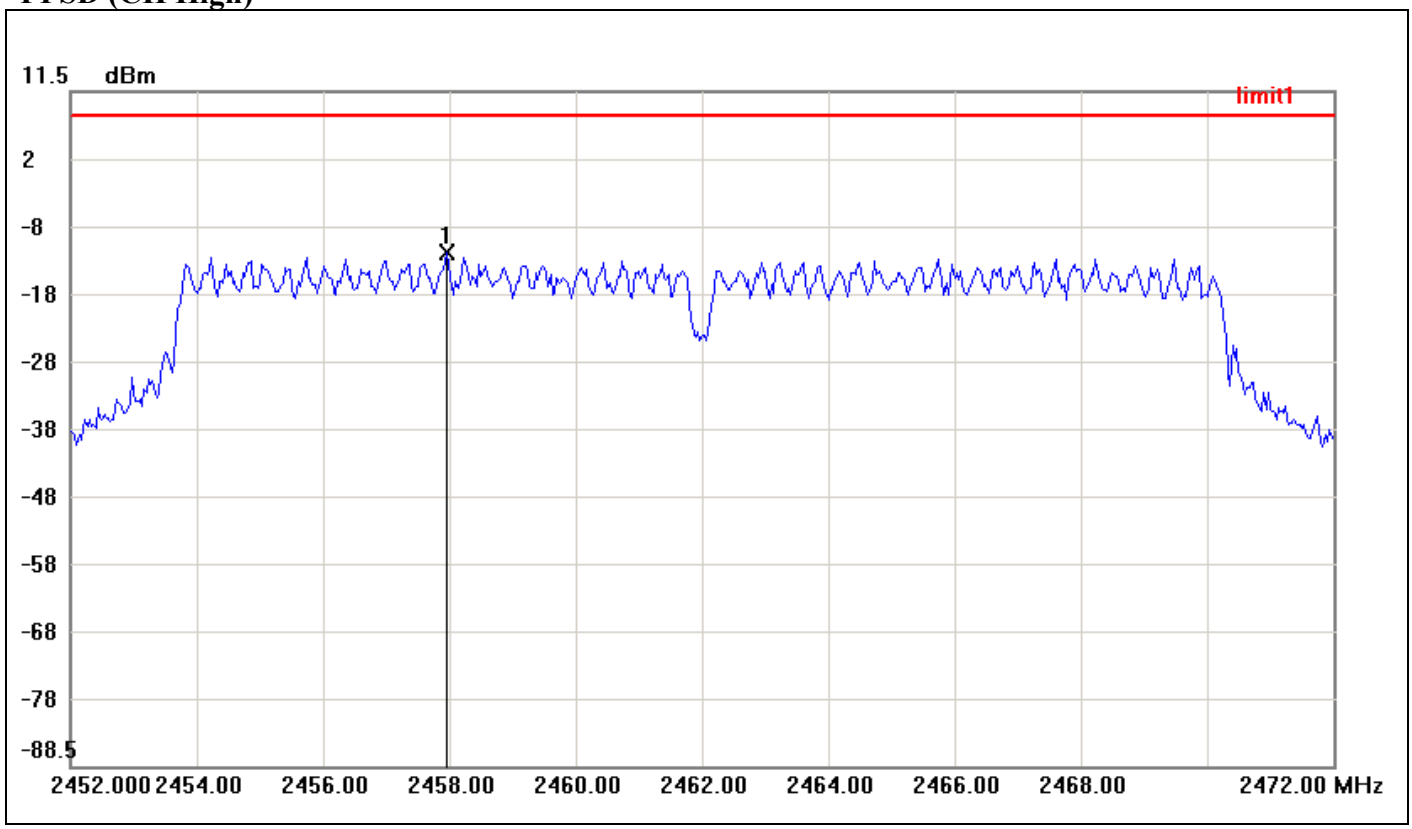
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2406.3667	-11.64	8.00	-19.64

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2435.1000	-11.61	8.00	-19.61

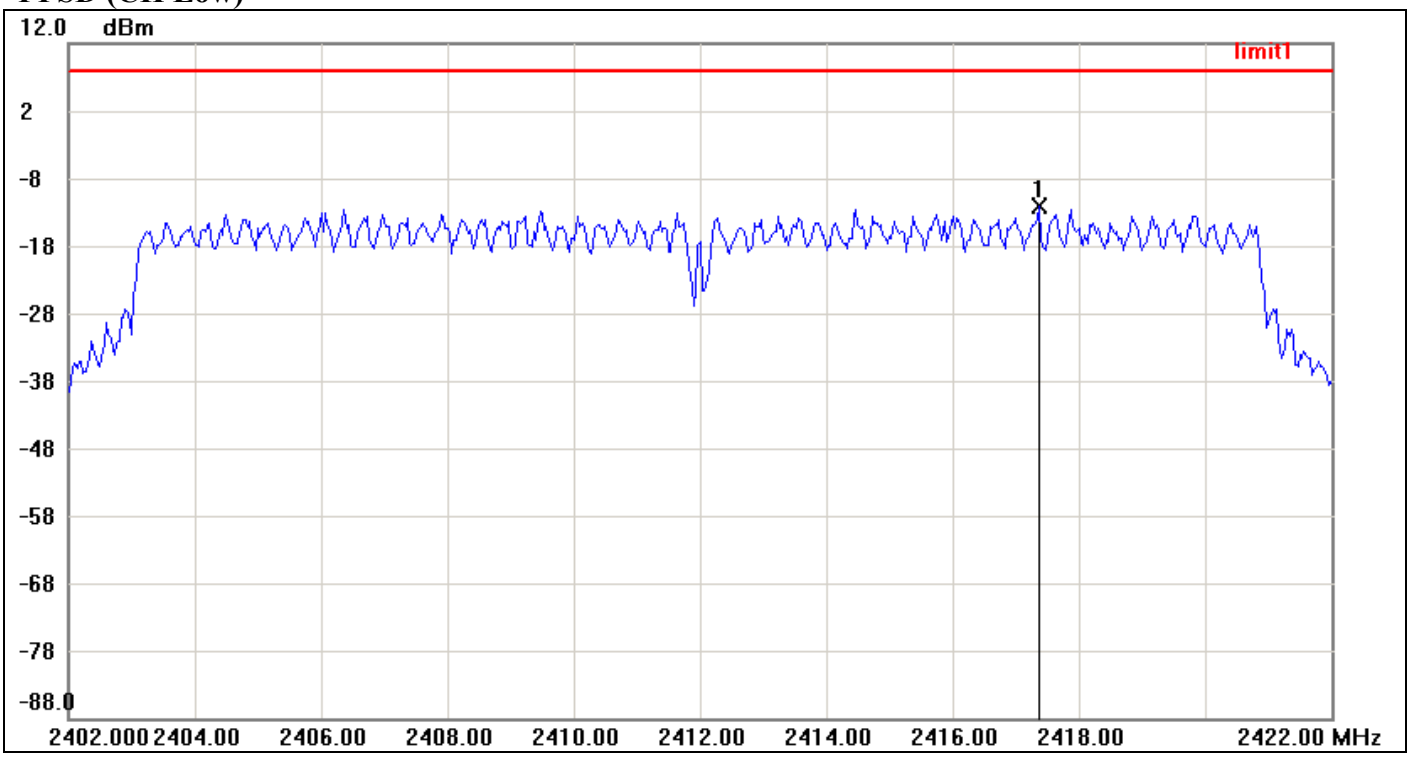
PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2457.9667	-12.37	8.00	-20.37

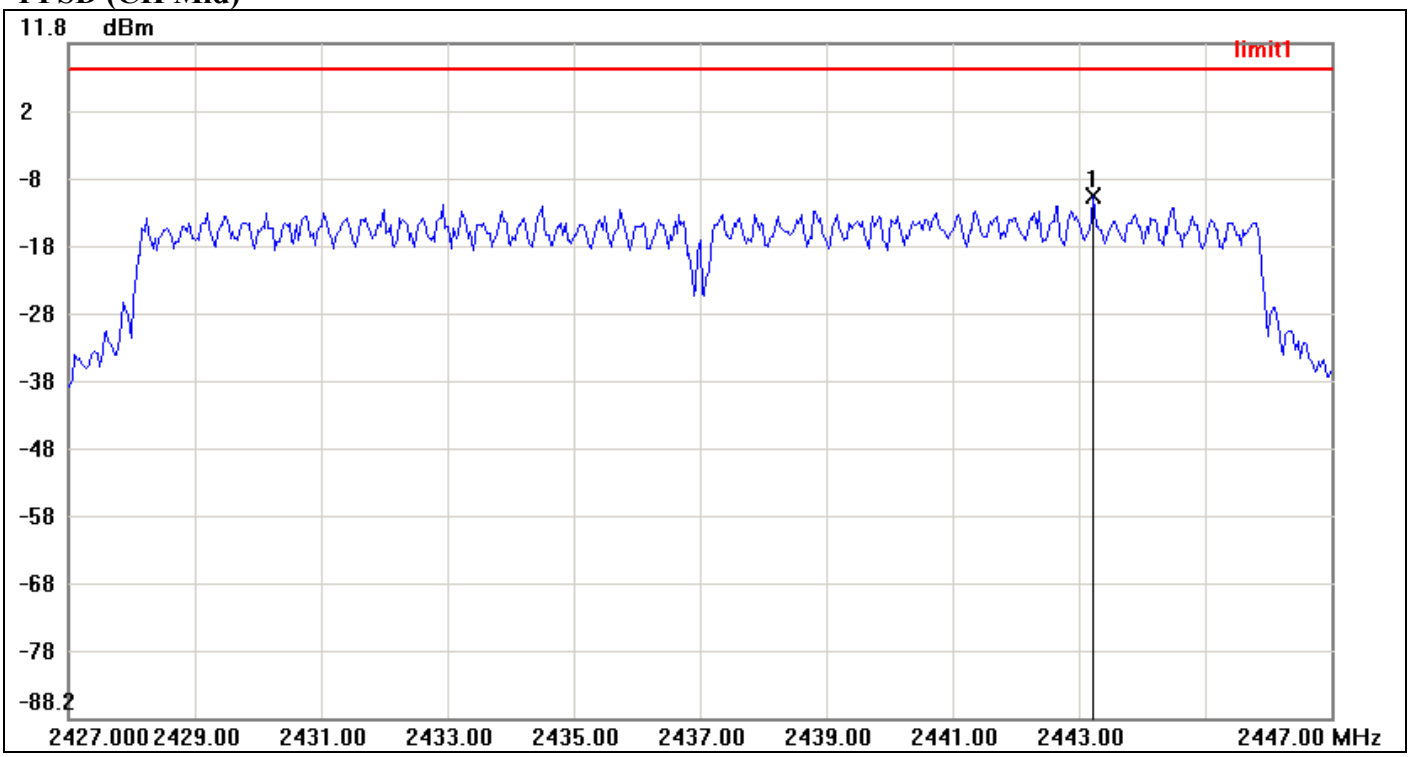
IEEE 802.11n HT 20 MHz mode / Chin 00

PPSD (CH Low)



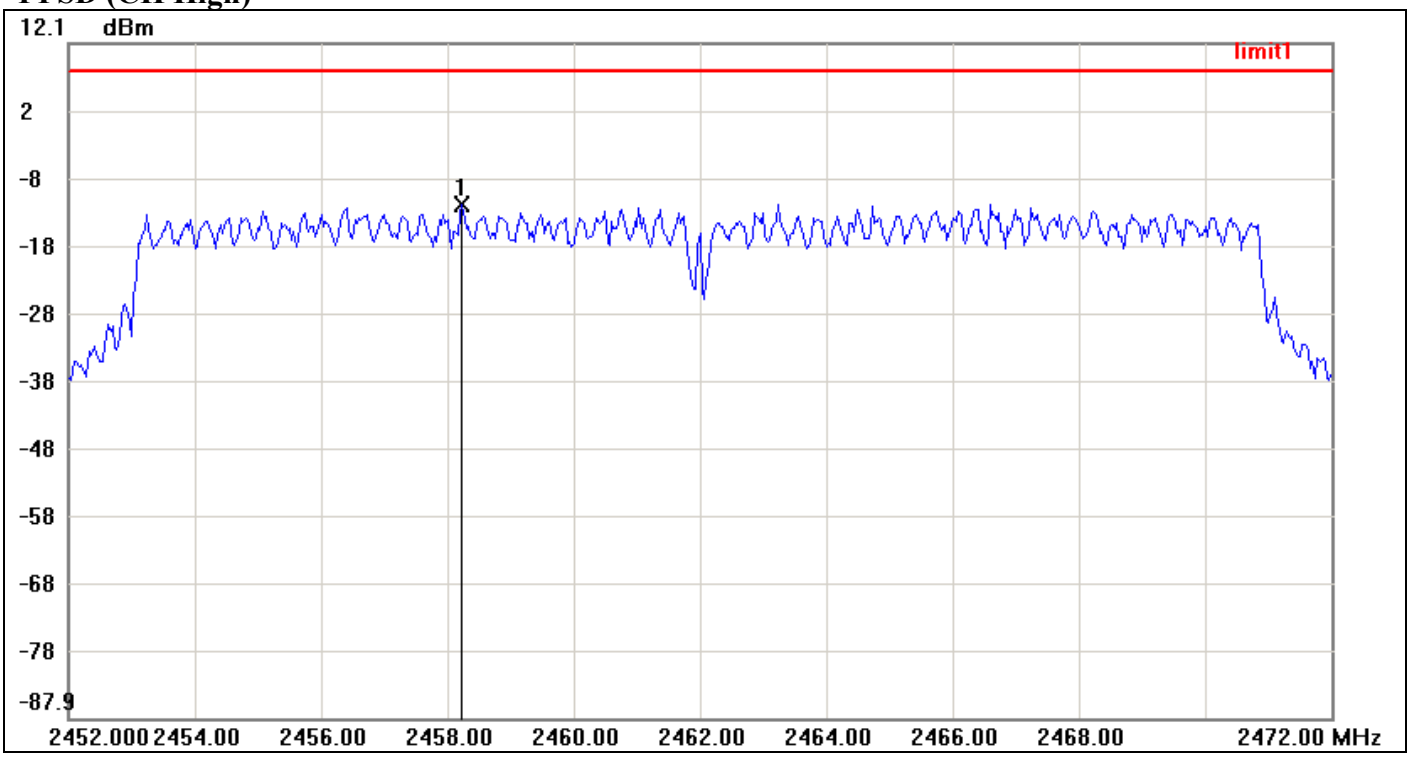
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2417.3667	-12.20	8.00	-20.20

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2443.2333	-10.75	8.00	-18.75

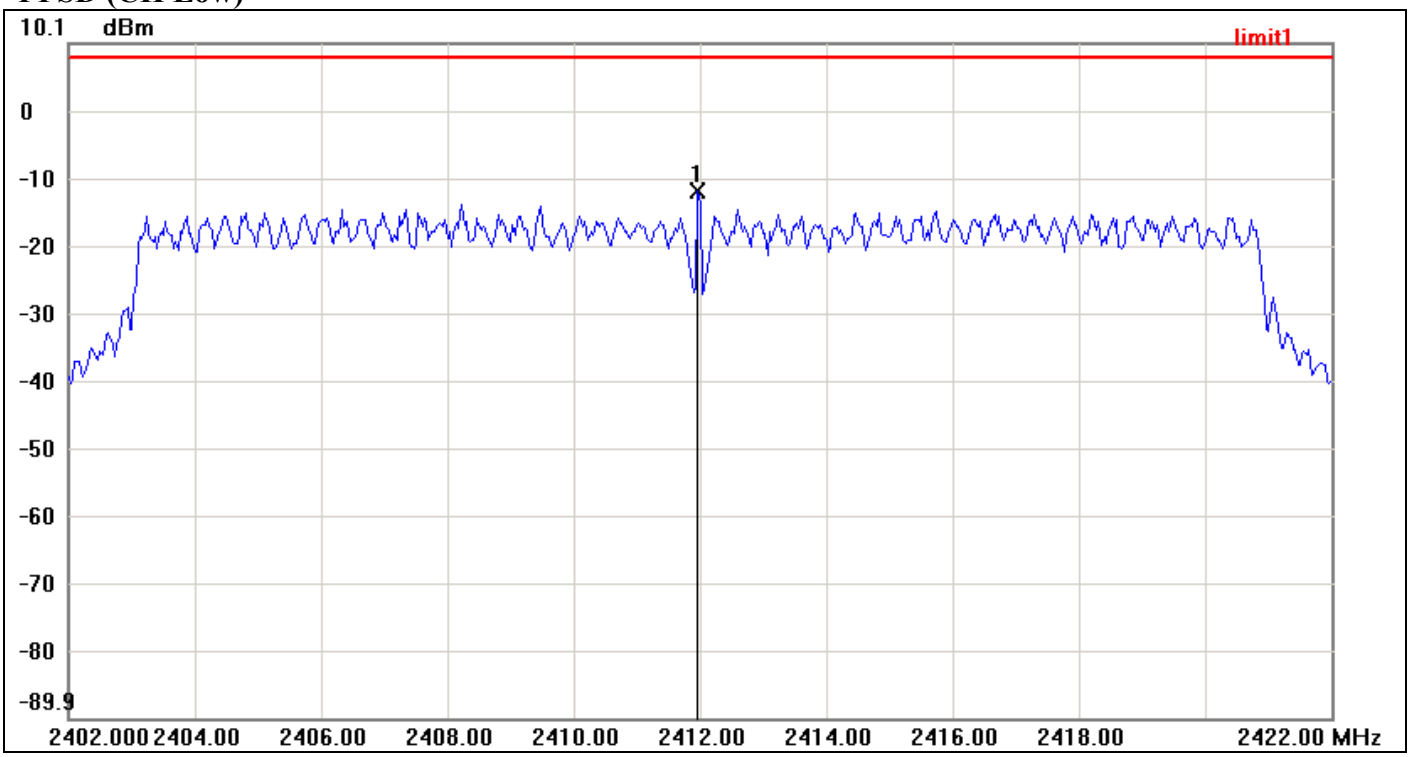
PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2458.2333	-11.76	8.00	-19.76

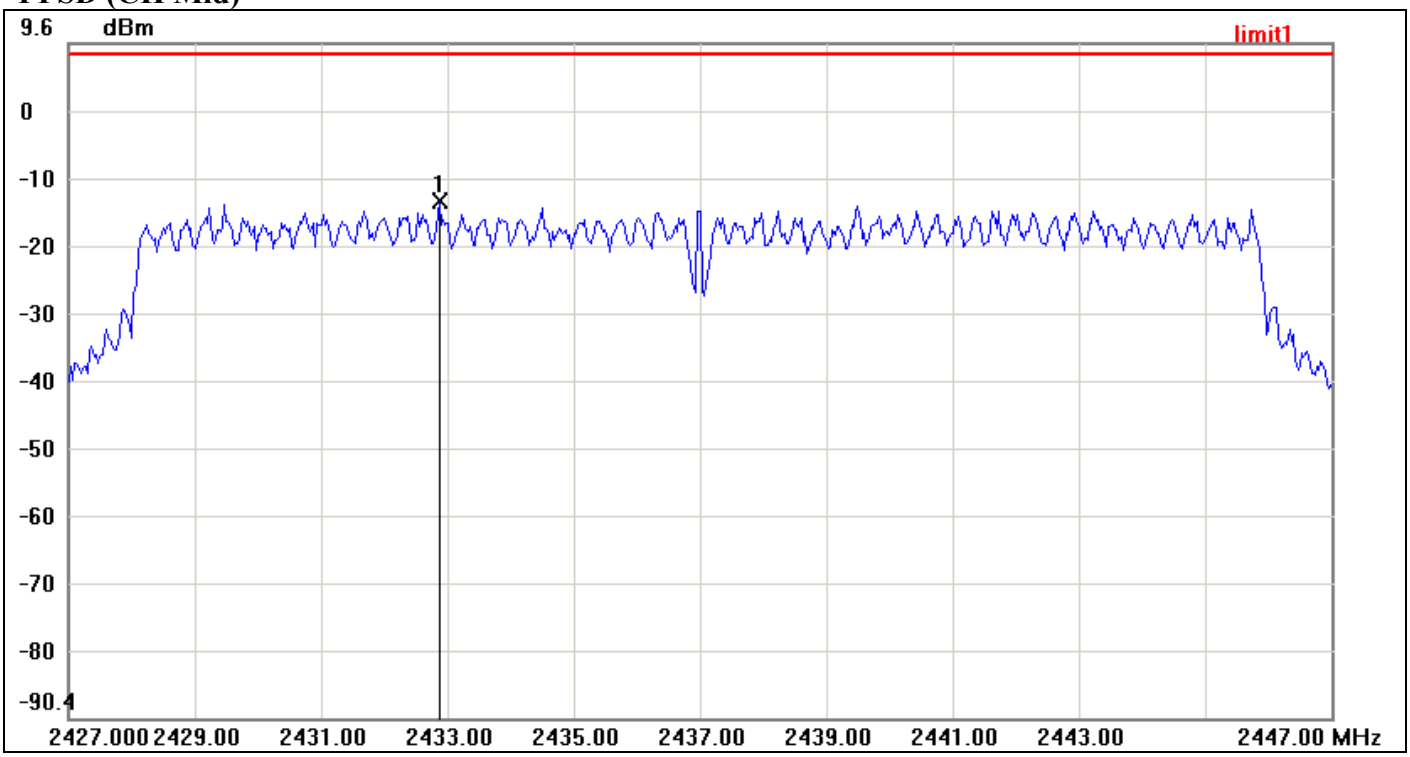
IEEE 802.11n HT 20 MHz mode / Chin 01

PPSD (CH Low)



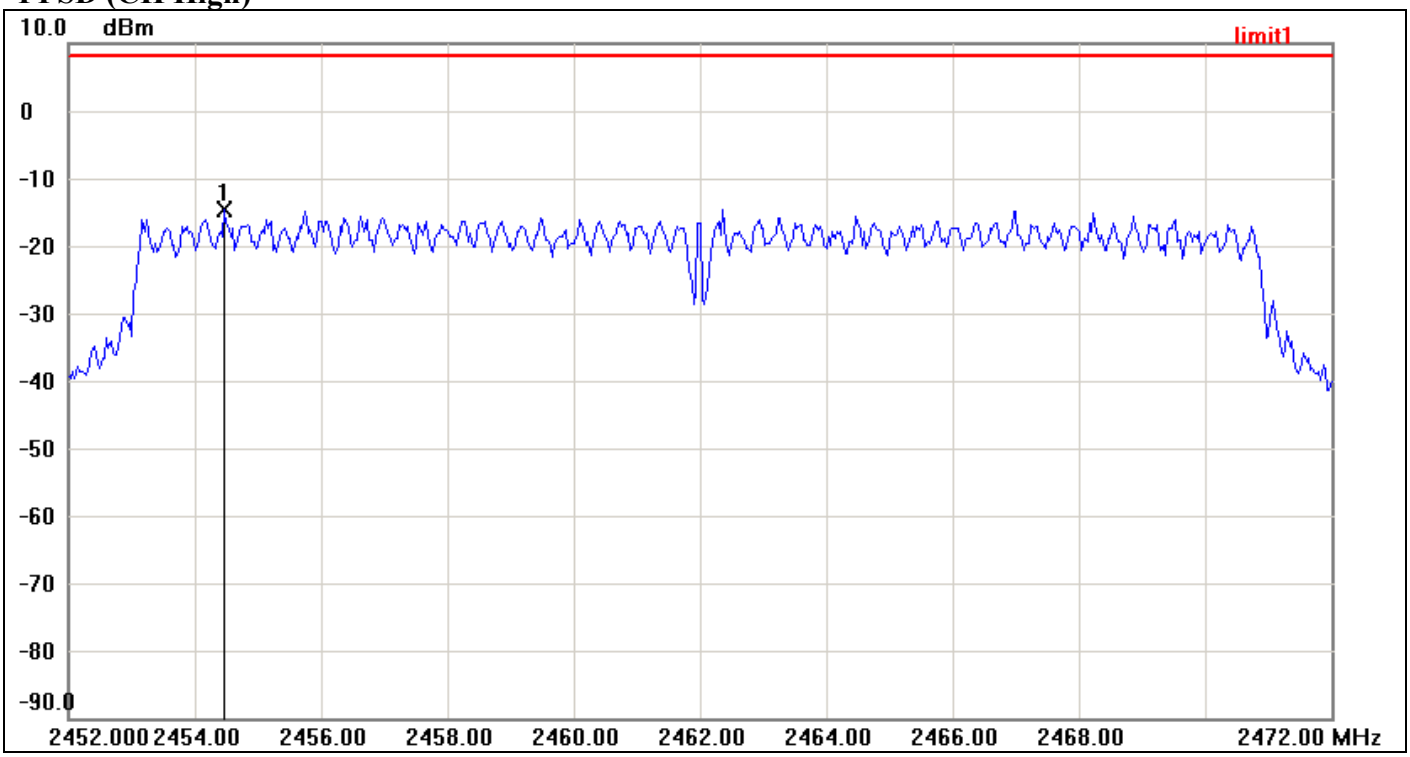
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2411.9667	-11.77	8.00	-19.77

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2432.8667	-13.70	8.00	-21.70

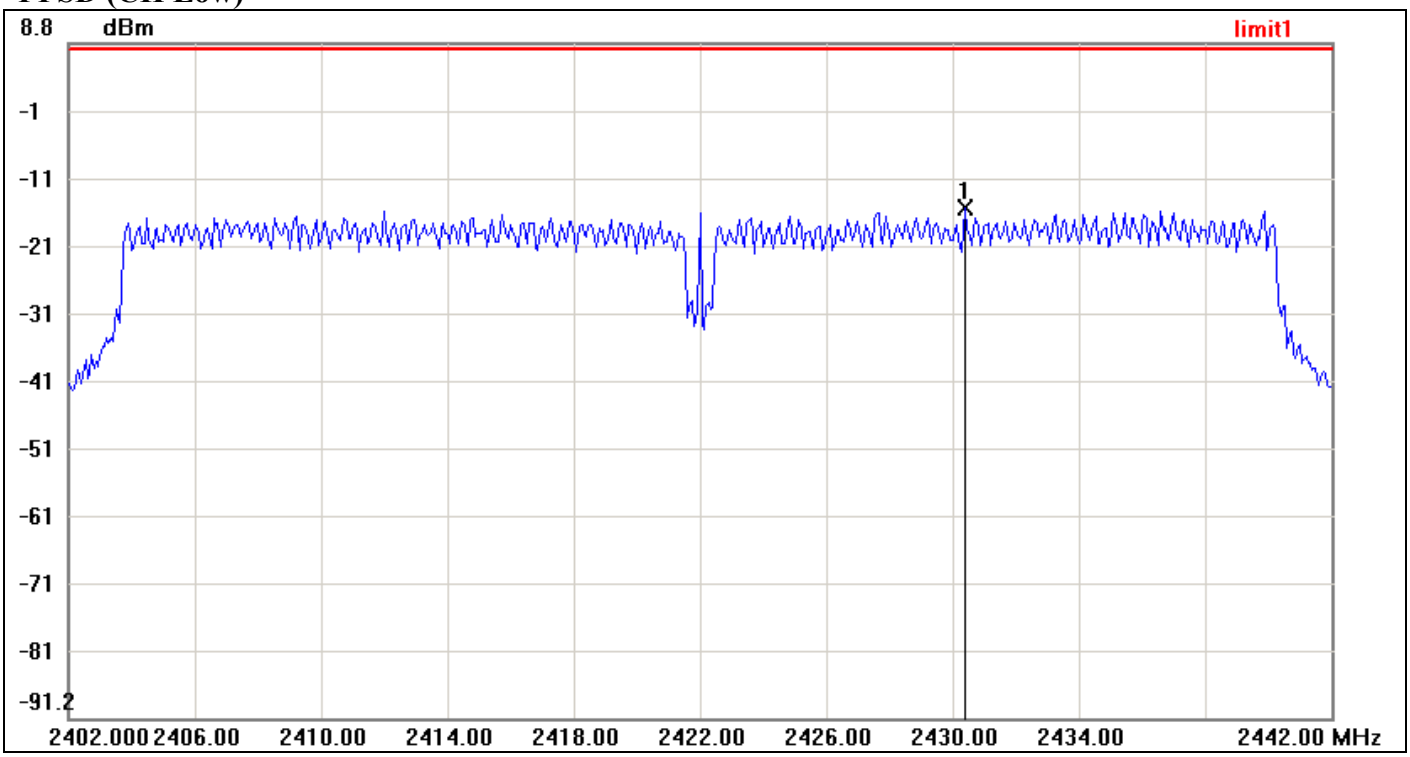
PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2454.4667	-14.55	8.00	-22.55

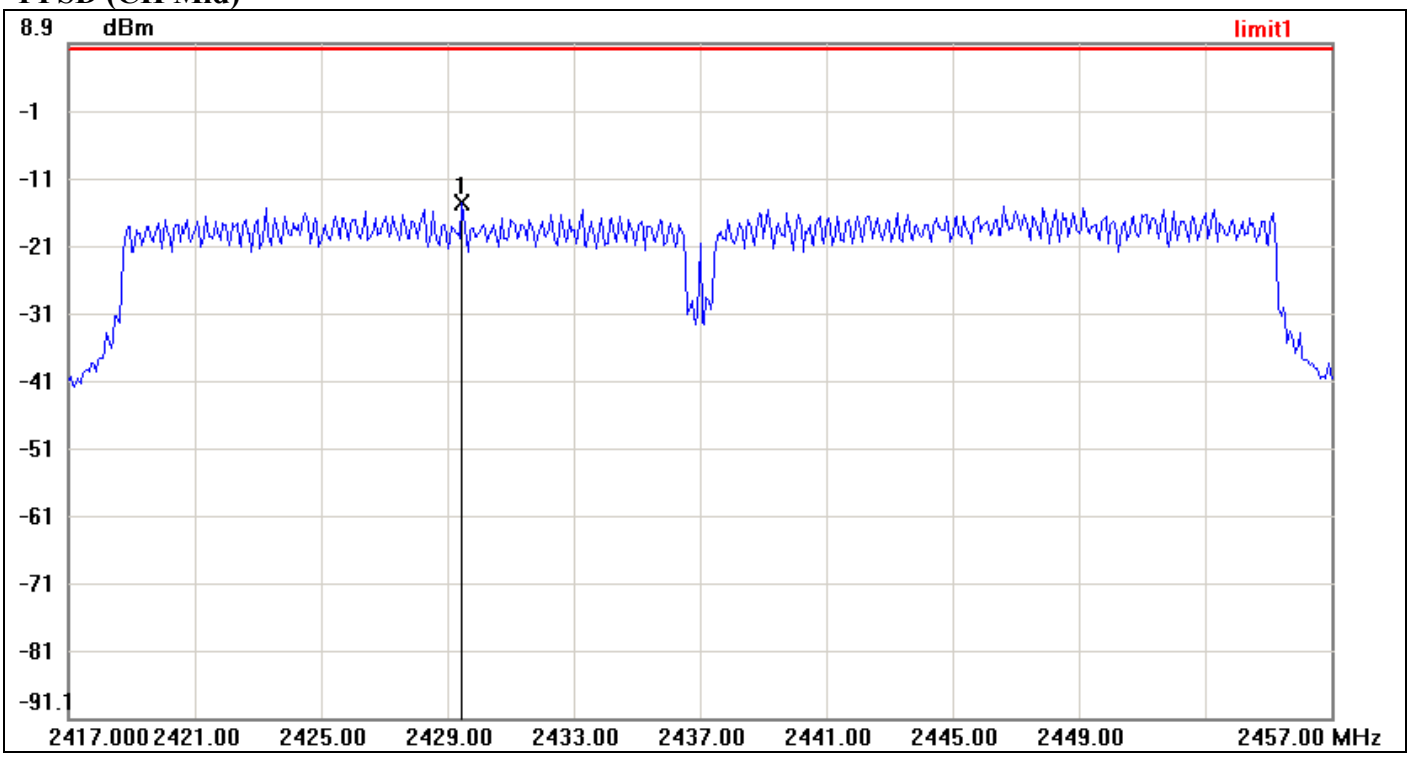
IEEE 802.11n HT 40 MHz mode / Chin 00

PPSD (CH Low)



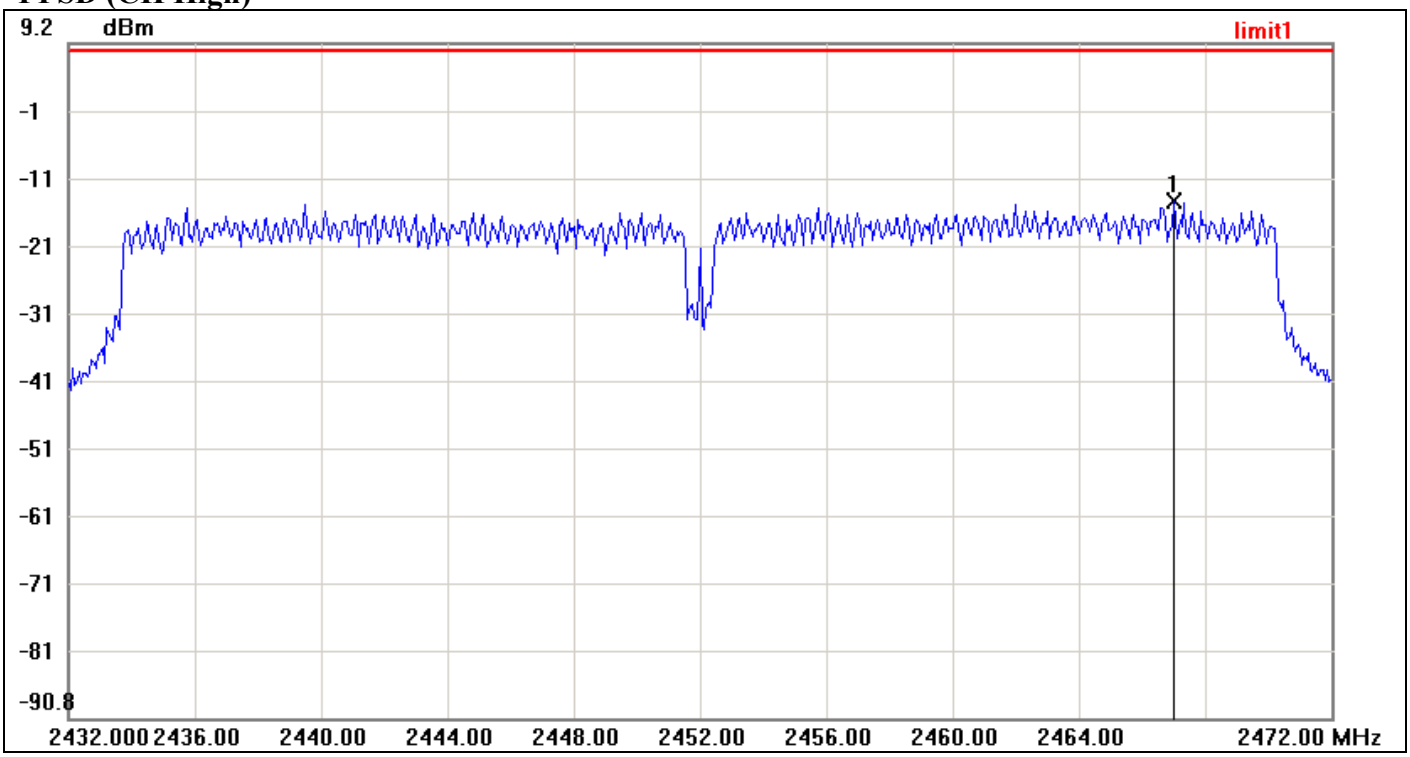
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2430.4000	-15.59	8.00	-23.59

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2429.4667	-14.70	8.00	-22.70

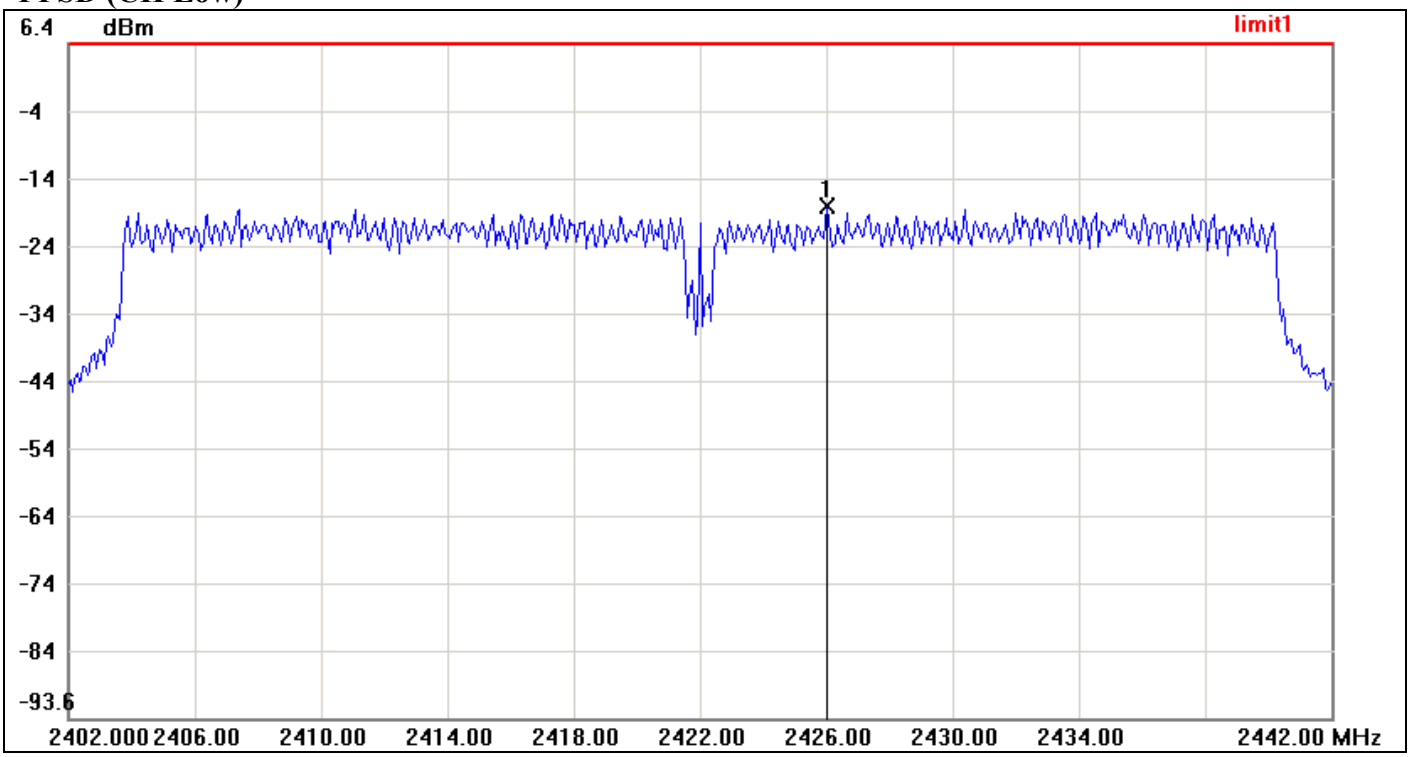
PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2467.0000	-14.30	8.00	-22.30

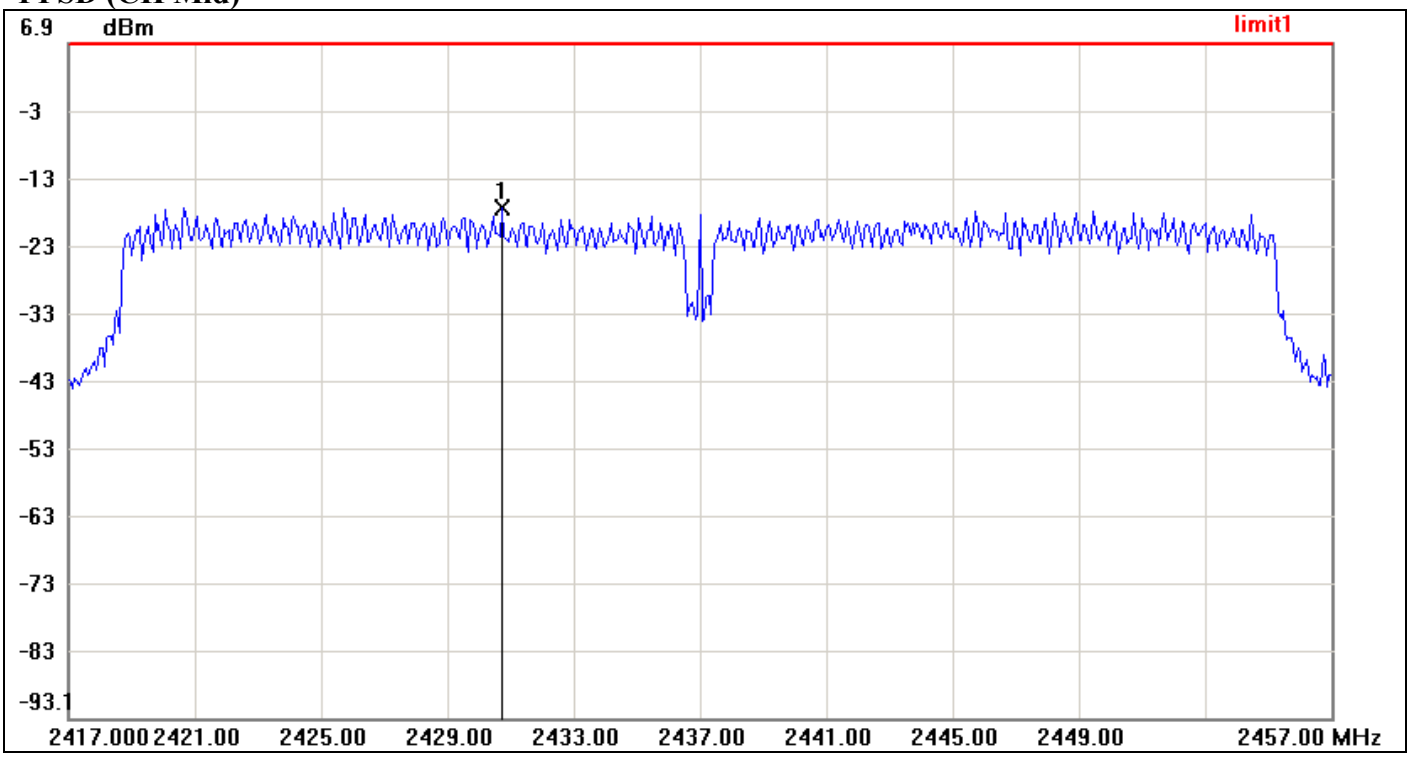
IEEE 802.11n HT 40 MHz mode / Chin 01

PPSD (CH Low)



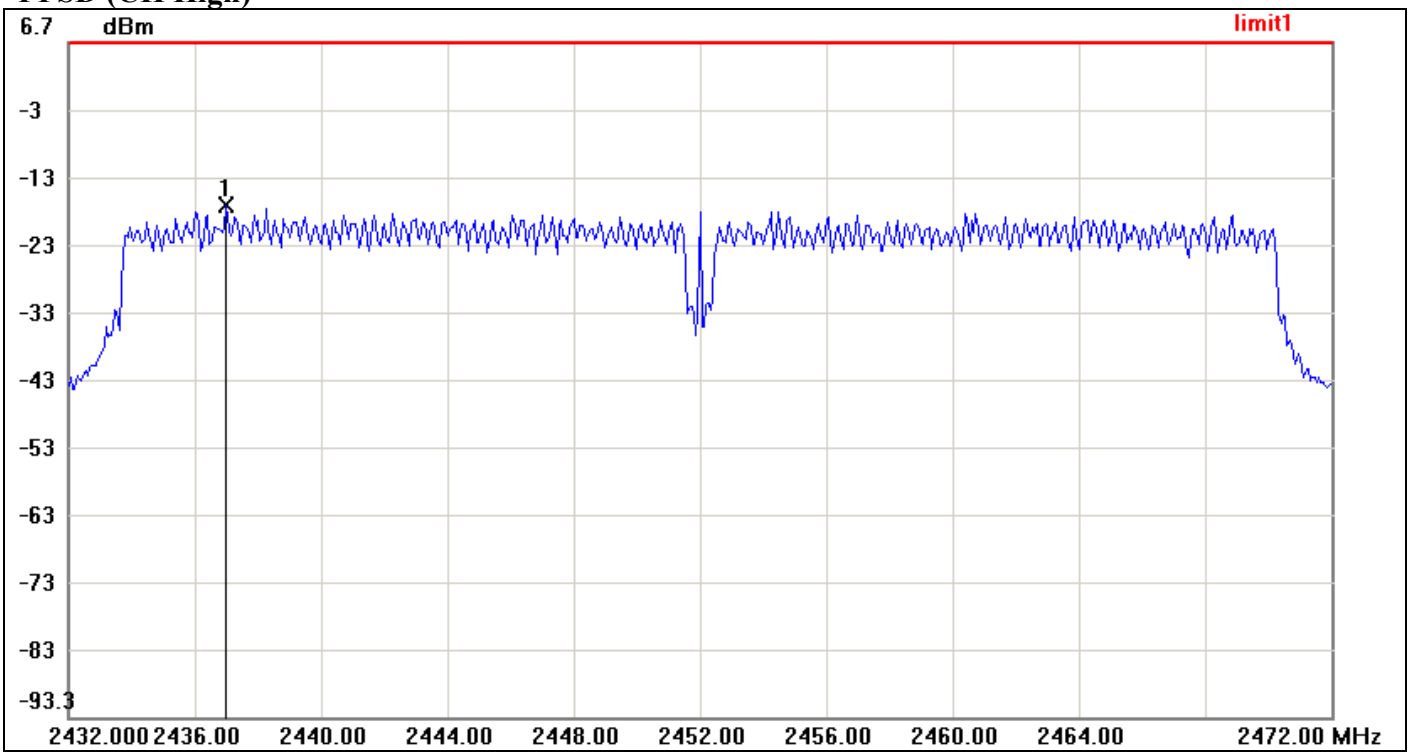
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2426.0000	-17.87	8.00	-25.87

PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2430.7333	-17.38	8.00	-25.38

PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2437.0000	-17.45	8.00	-25.45

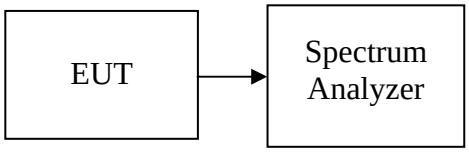
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Measurements are made over the 30MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

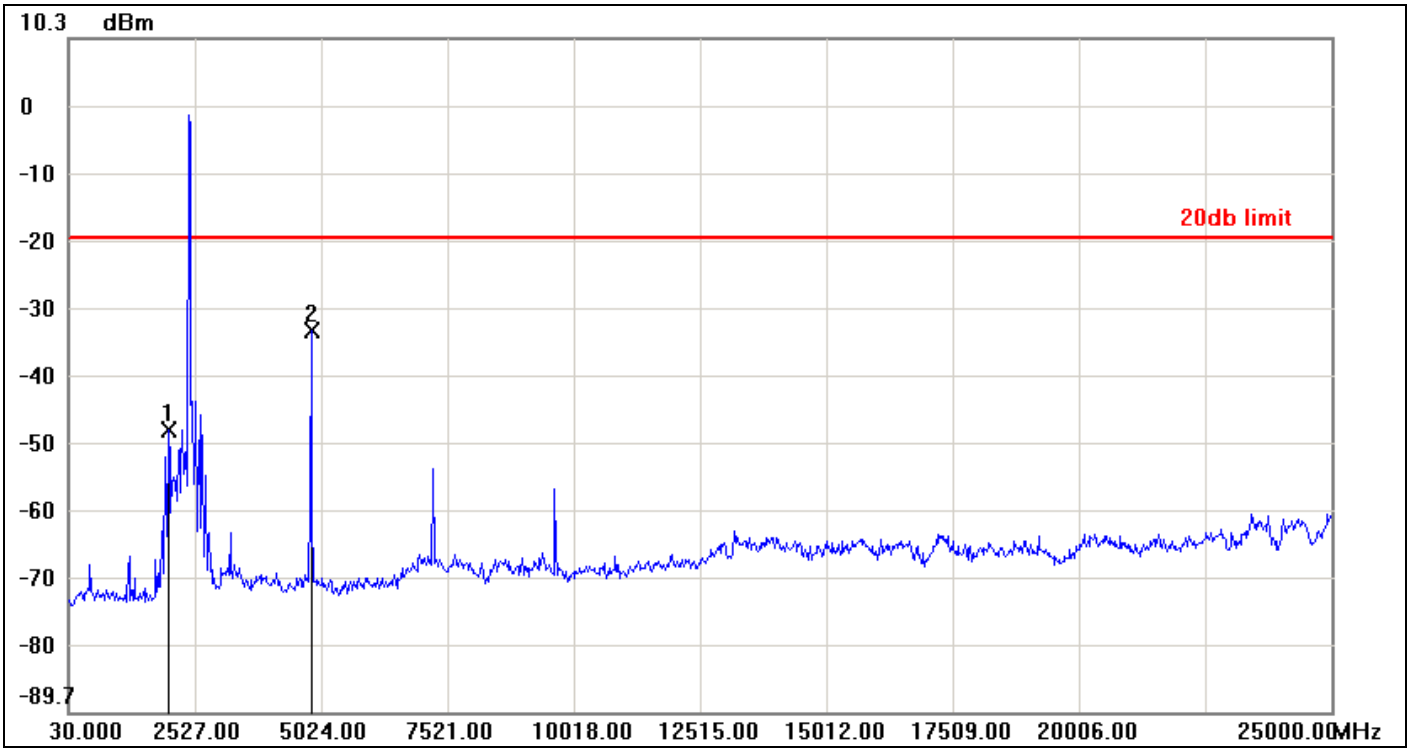
TEST RESULTS

No non-compliance noted.

Test Plot

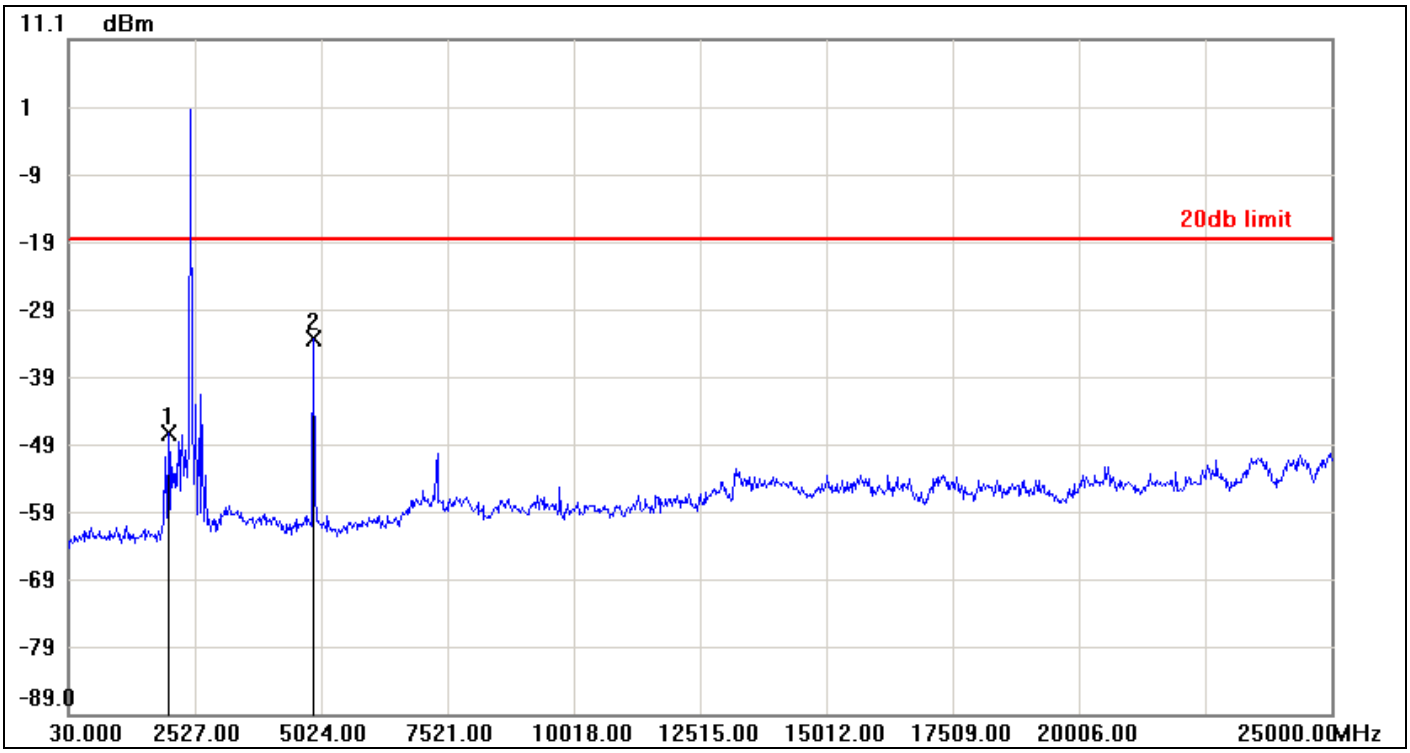
IEEE 802.11b mode

CH Low



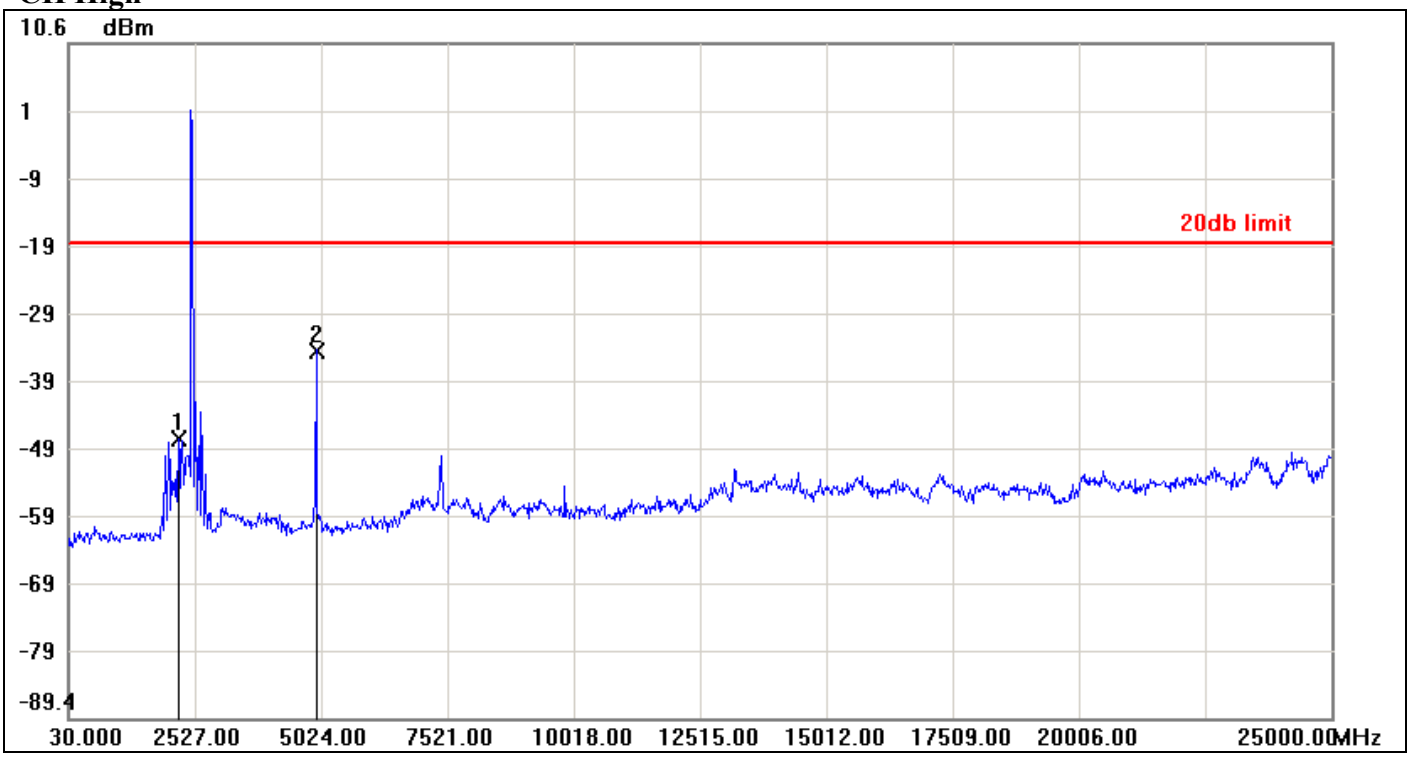
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2002.6300	-47.75	-19.31	-28.44
2	4824.2400	-33.09	-19.31	-13.78

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2002.6300	-47.21	-18.61	-28.60
2	4874.1800	-33.39	-18.61	-14.78

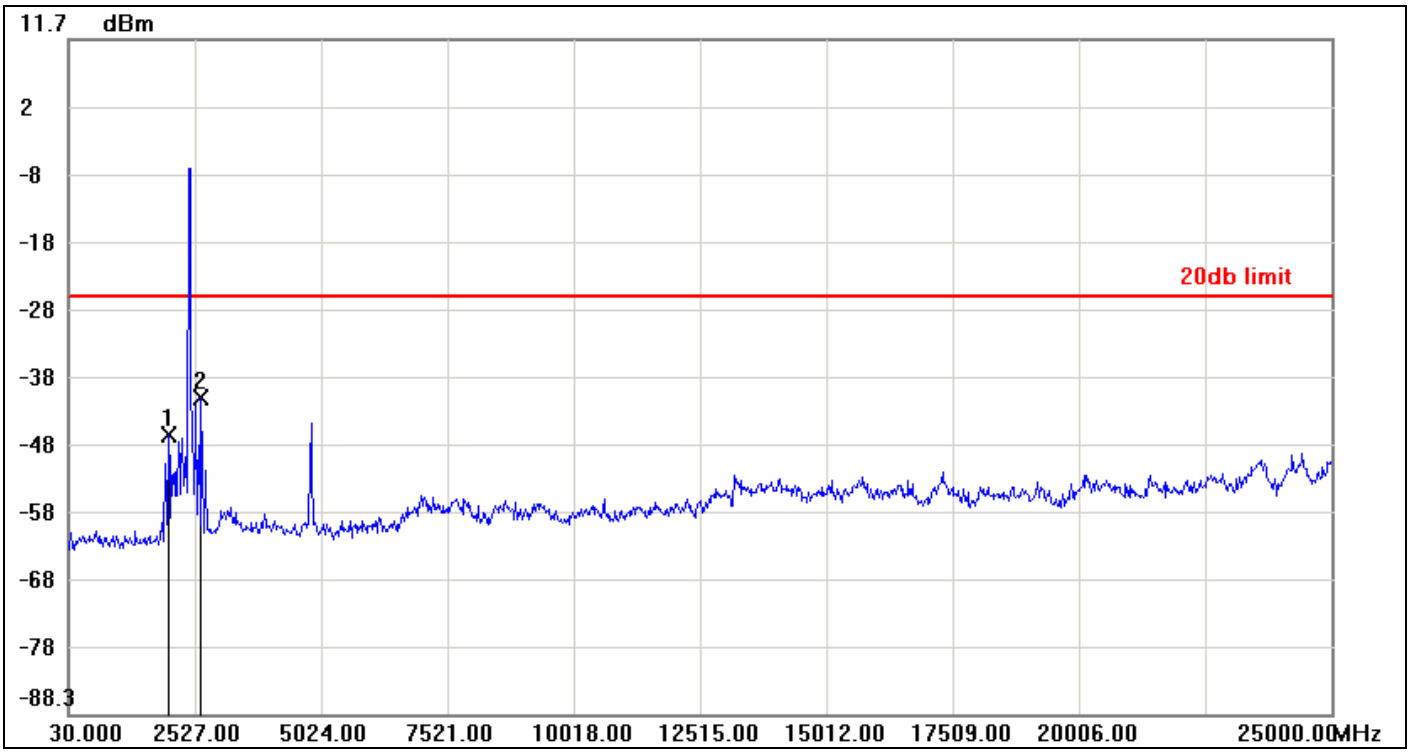
CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2202.3900	-48.12	-18.93	-29.19
2	4924.1200	-34.89	-18.93	-15.96

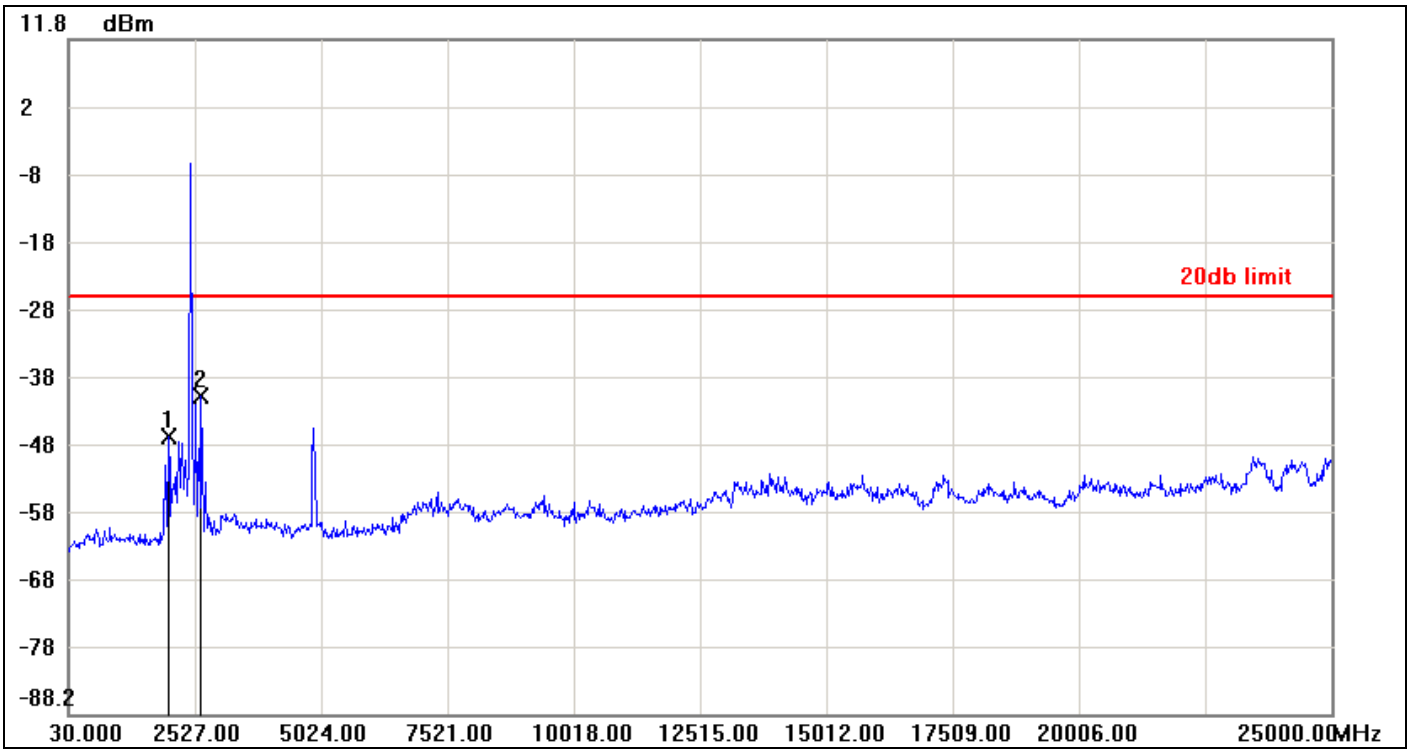
IEEE 802.11g mode

CH Low



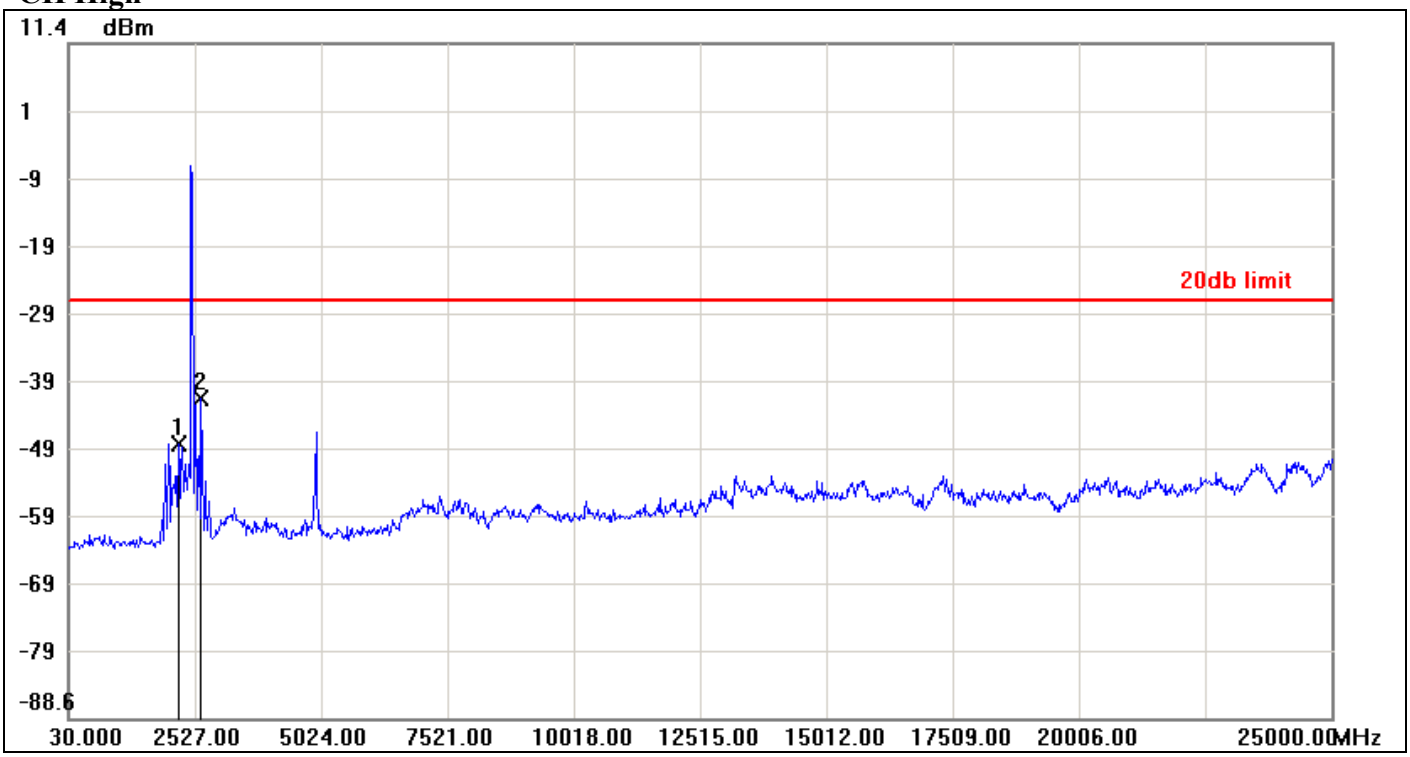
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2002.6300	-47.00	-26.36	-20.64
2	2651.8500	-41.35	-26.36	-14.99

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2002.6300	-47.13	-26.40	-20.73
2	2651.8500	-41.14	-26.40	-14.74

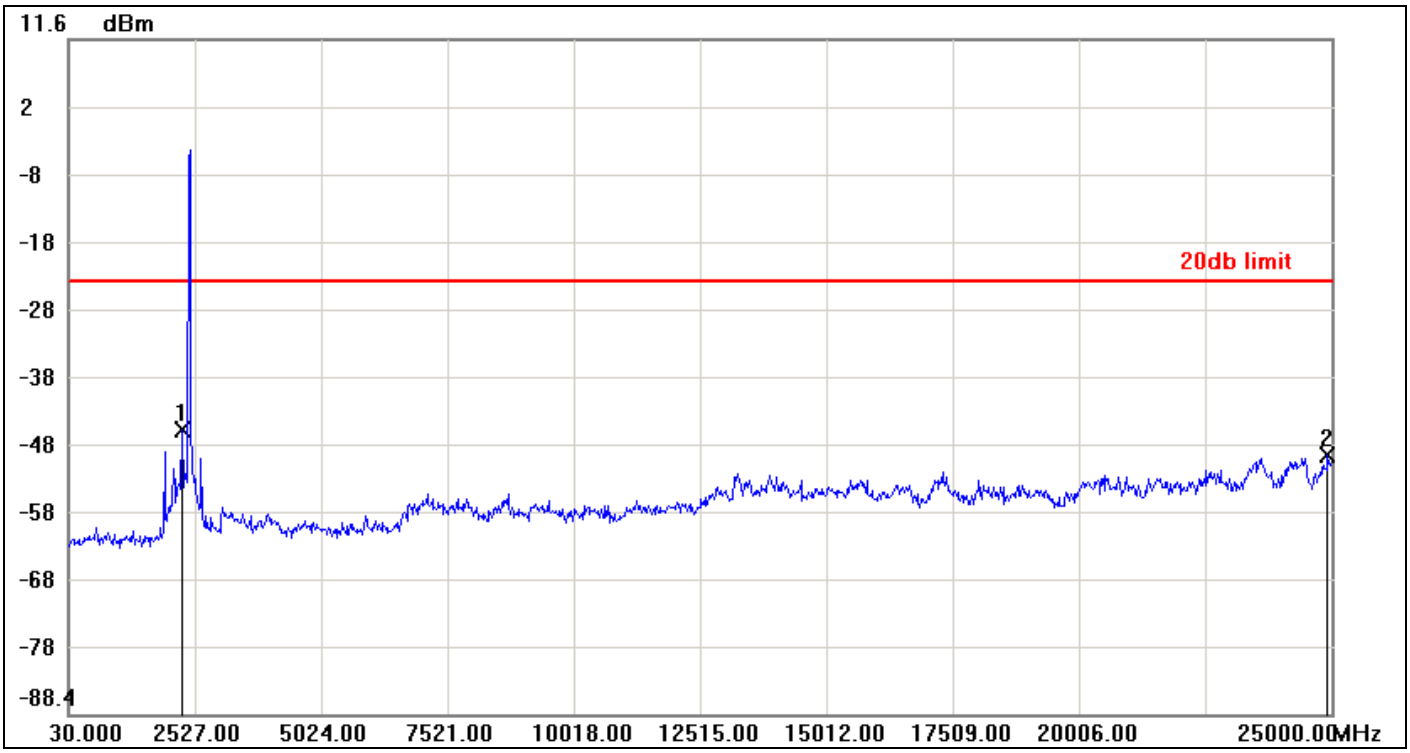
CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2202.3900	-47.89	-26.69	-21.20
2	2651.8500	-41.36	-26.69	-14.67

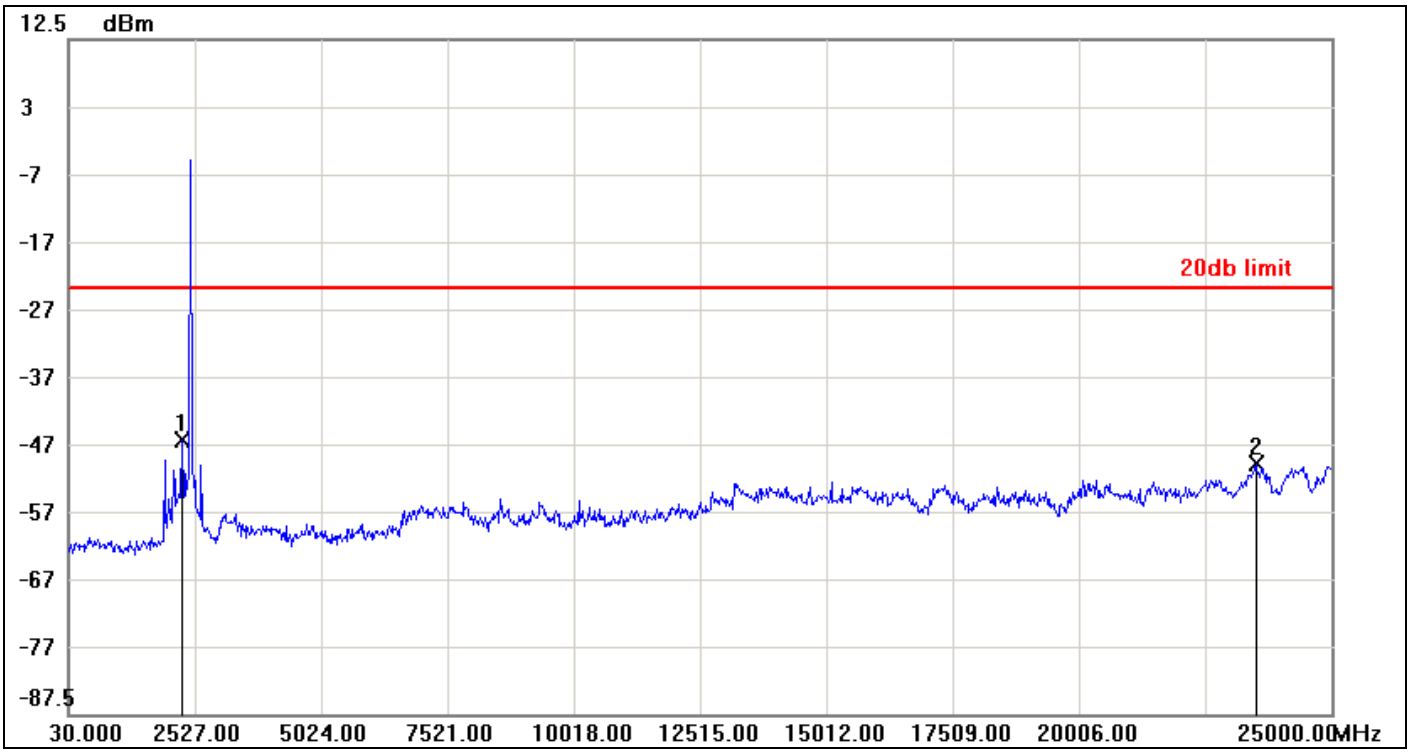
IEEE 802.11n HT 20 MHz mode / Chin 0

CH Low



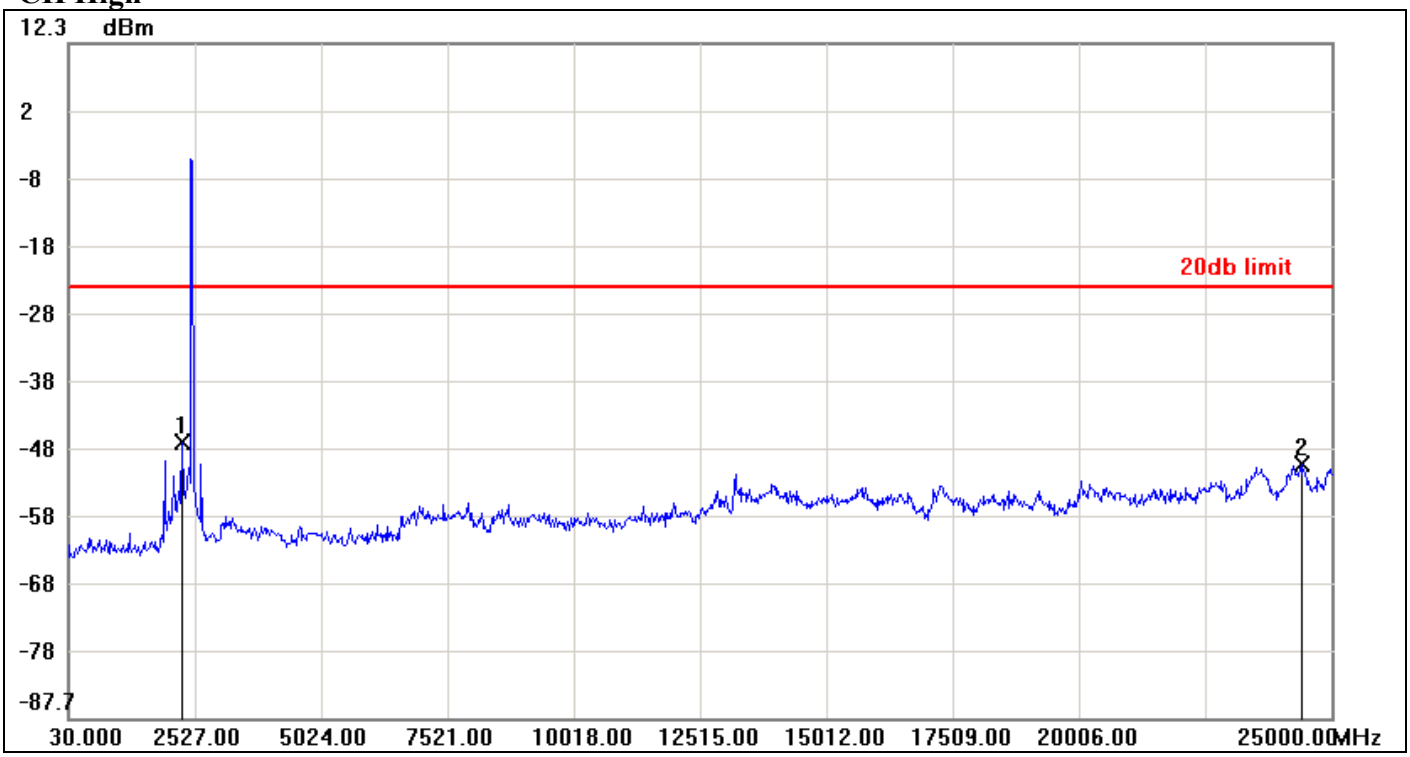
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.33	-24.24	-22.09
2	24925.0900	-50.02	-24.24	-25.78

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.79	-24.35	-22.44
2	23501.8000	-50.46	-24.35	-26.11

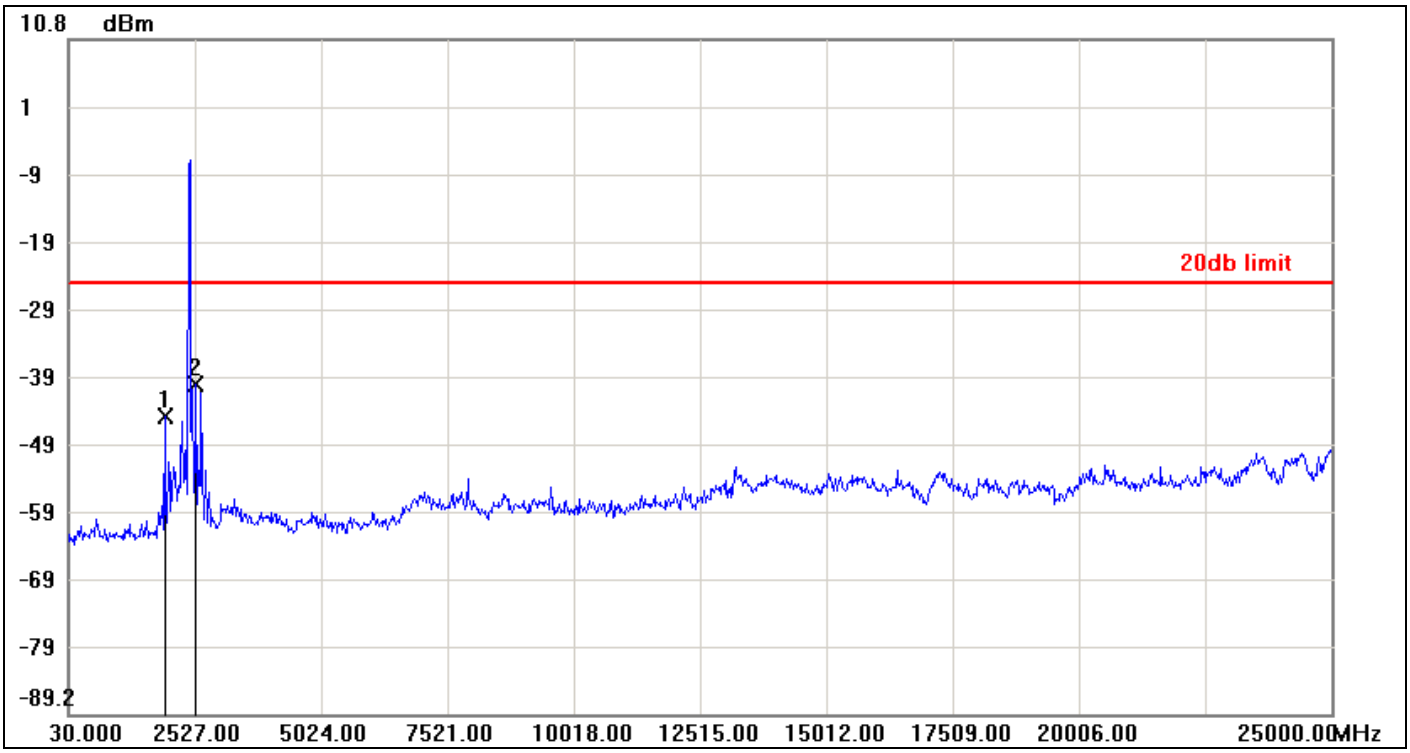
CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.79	-23.77	-23.02
2	24400.7200	-50.04	-23.77	-26.27

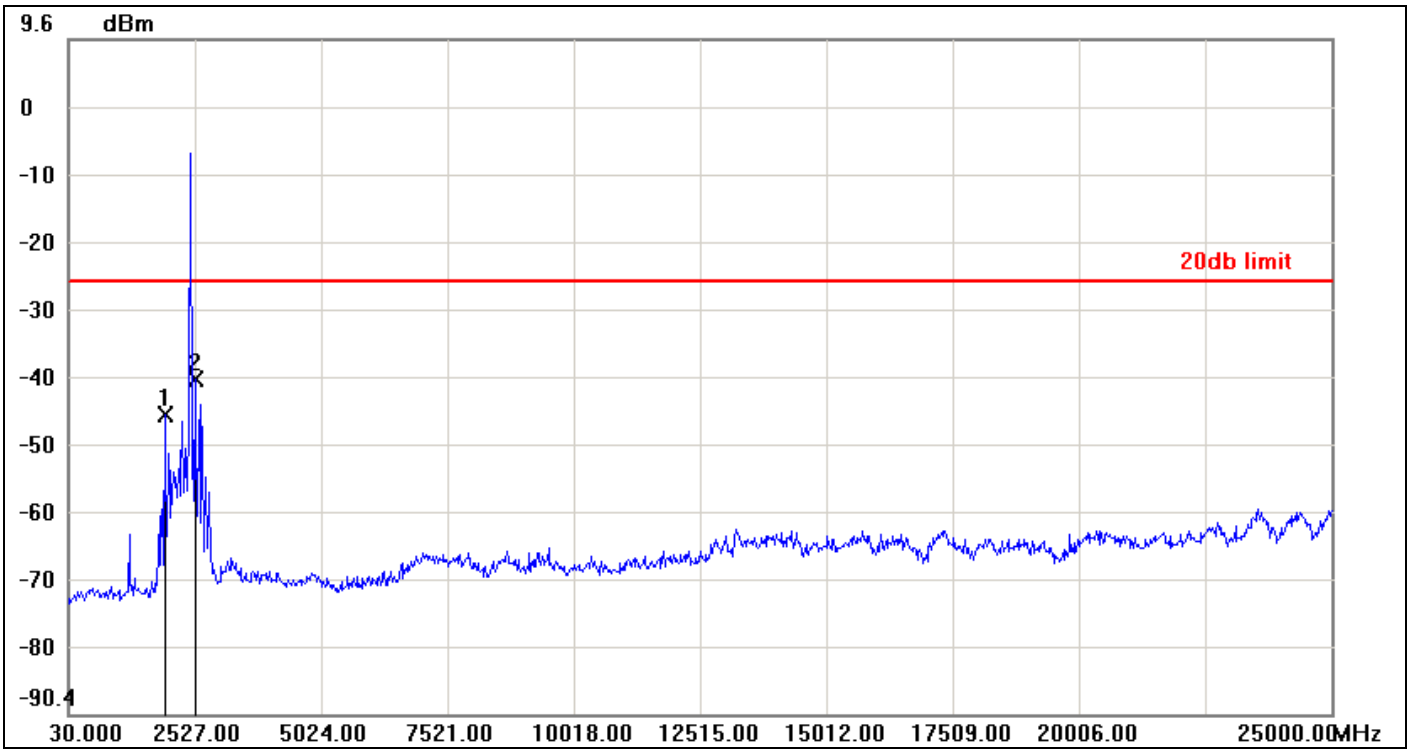
IEEE 802.11n HT 20 MHz mode / Chin 1

CH Low



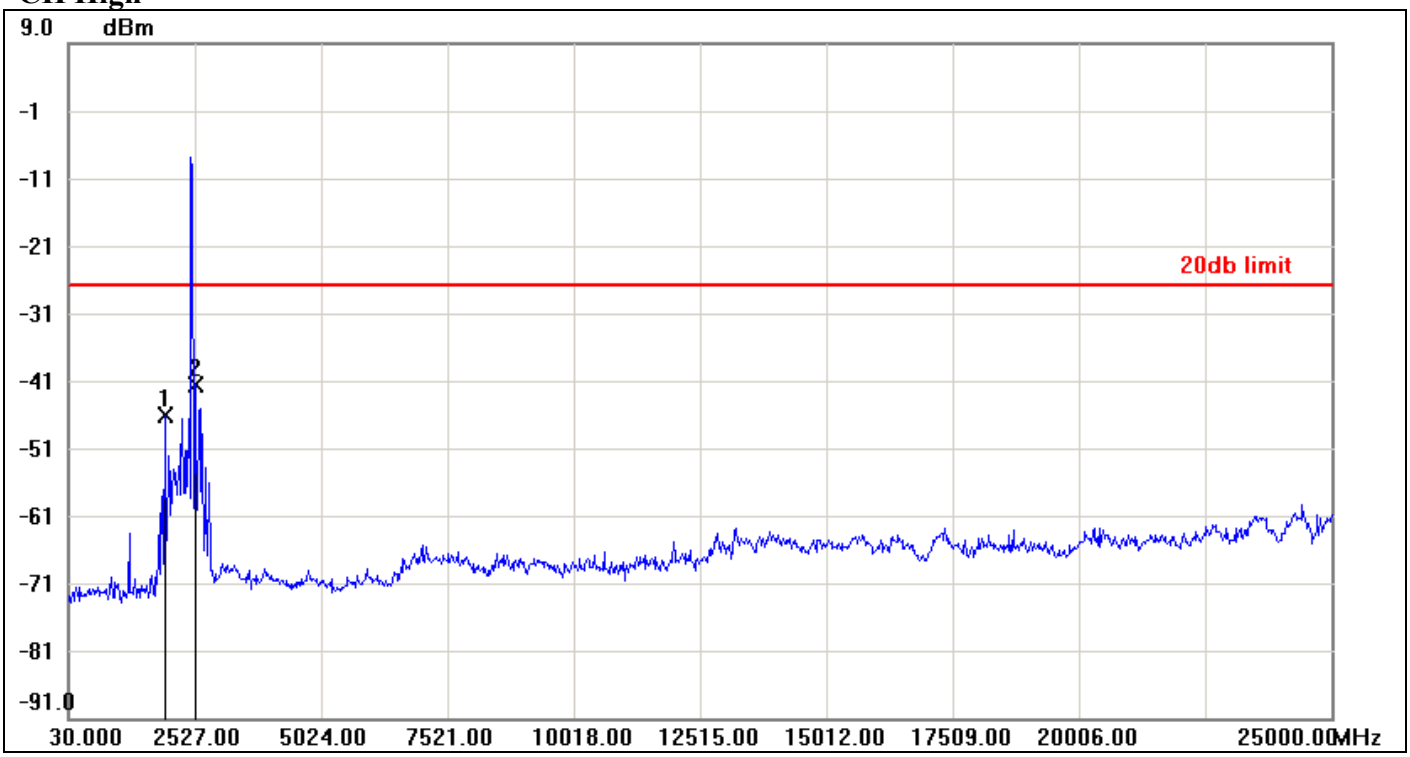
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-45.08	-25.22	-19.86
2	2551.9700	-40.16	-25.22	-14.94

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-46.01	-26.40	-19.61
2	2527.0000	-40.80	-26.40	-14.40

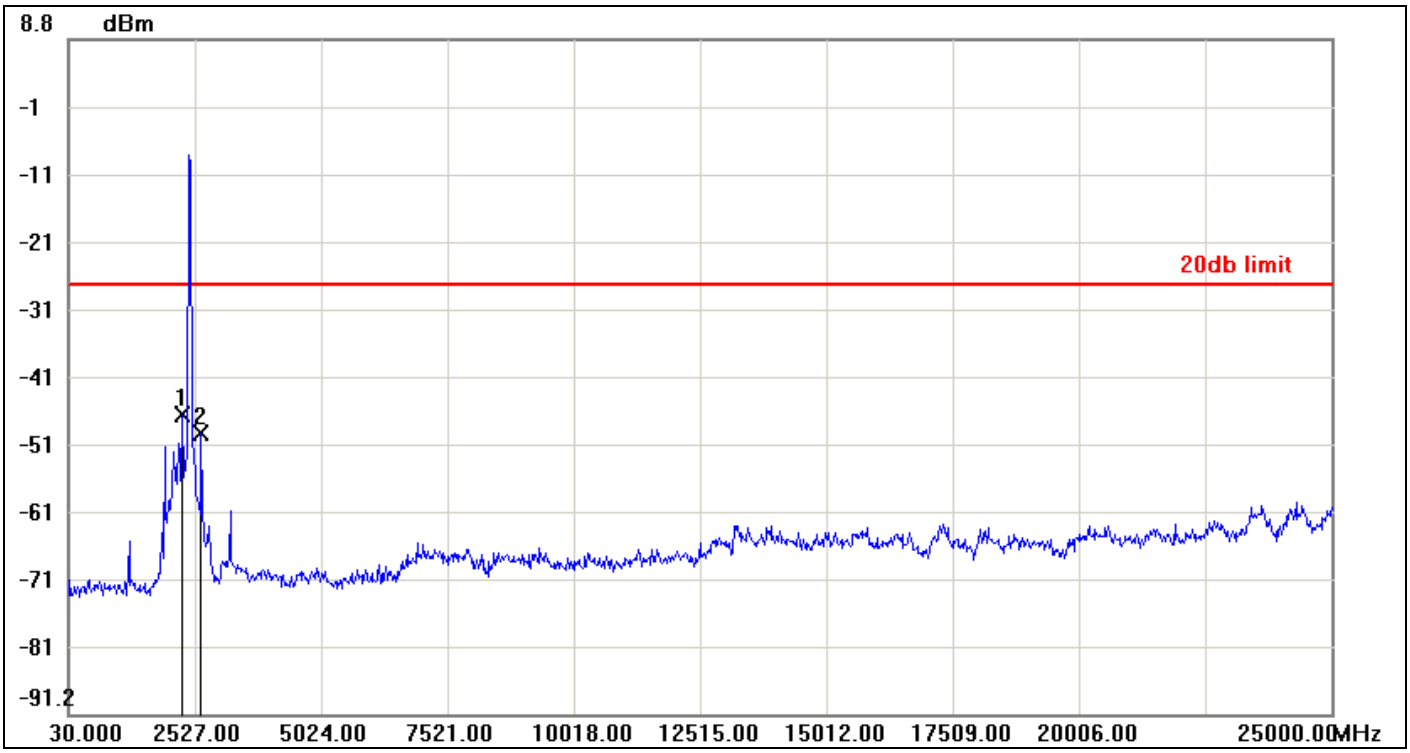
CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-46.10	-26.88	-19.22
2	2527.0000	-41.49	-26.88	-14.61

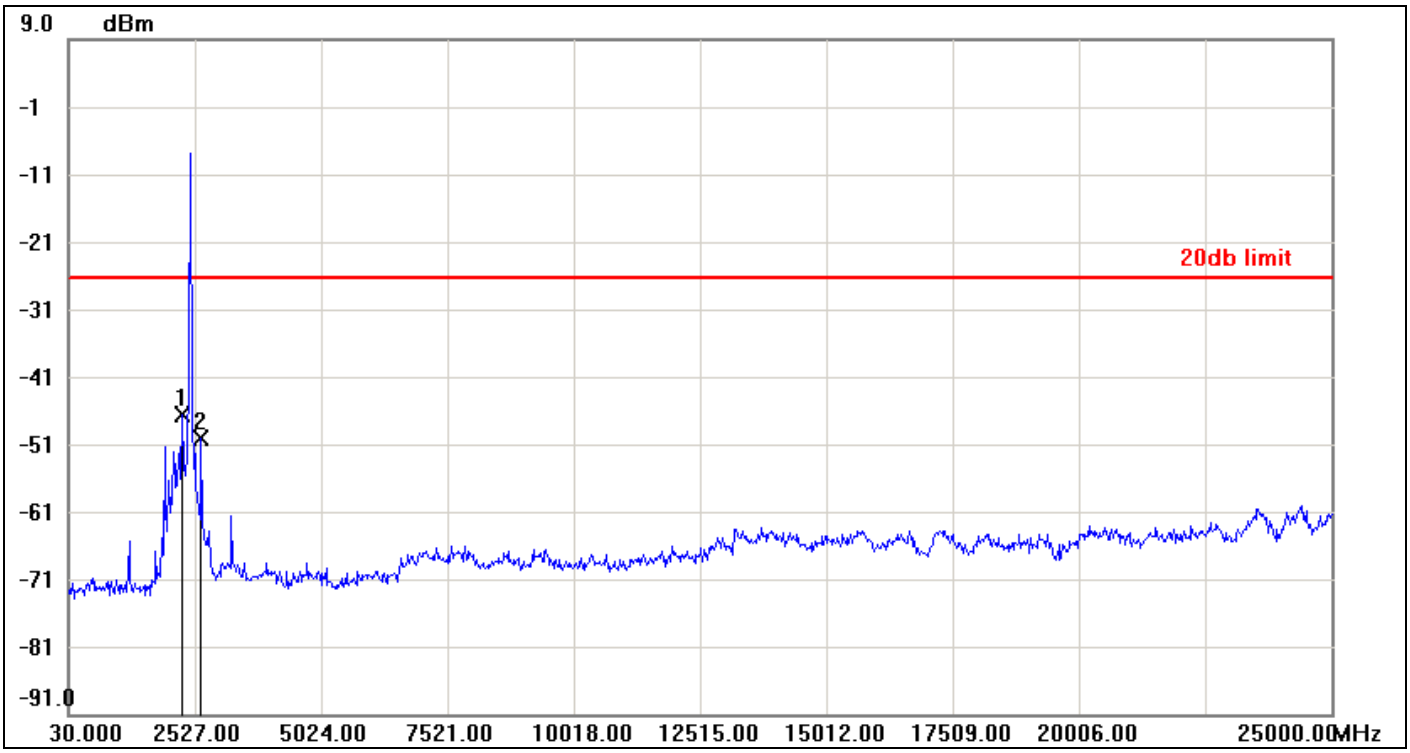
IEEE 802.11n HT 40 MHz mode / Chin 0

CH Low



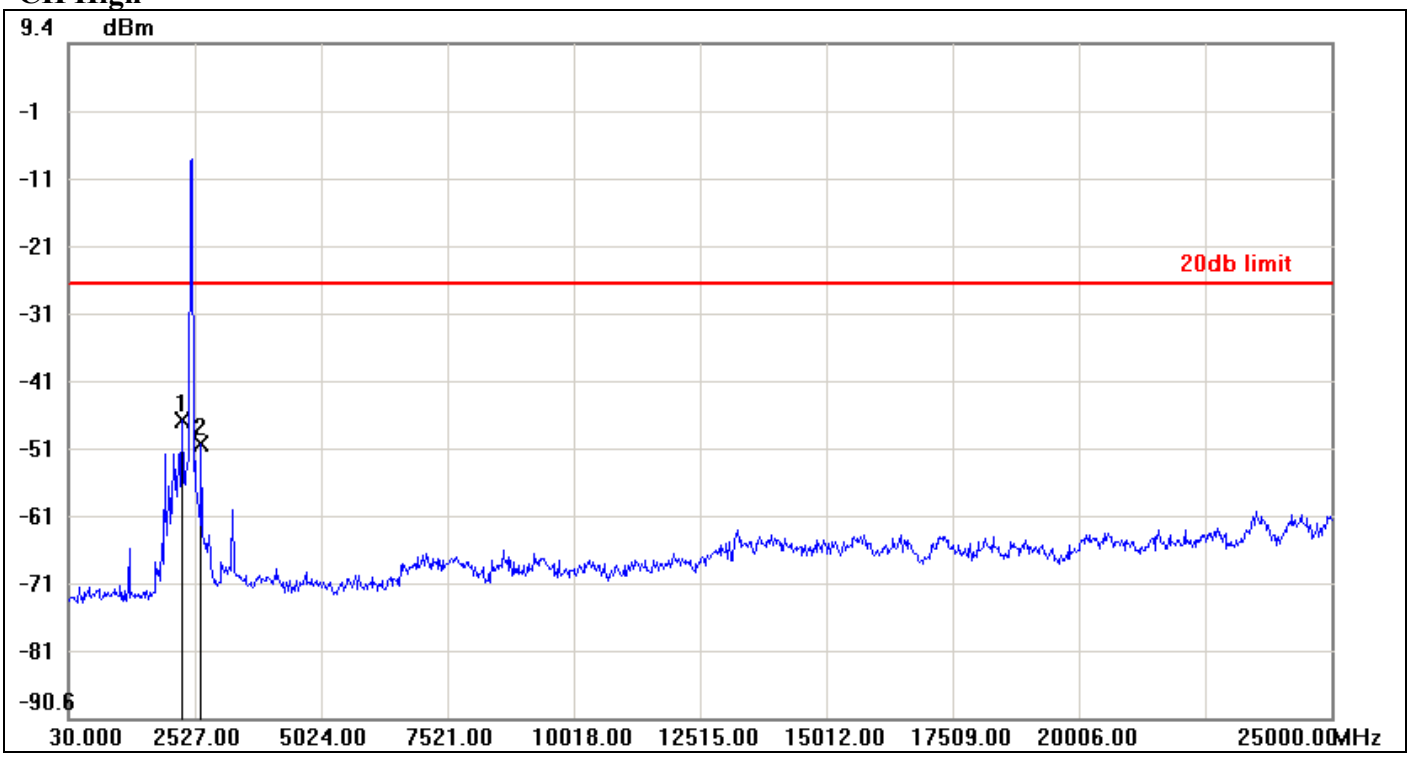
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.90	-27.57	-19.33
2	2651.8500	-49.63	-27.57	-22.06

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.73	-26.37	-20.36
2	2651.8500	-50.15	-26.37	-23.78

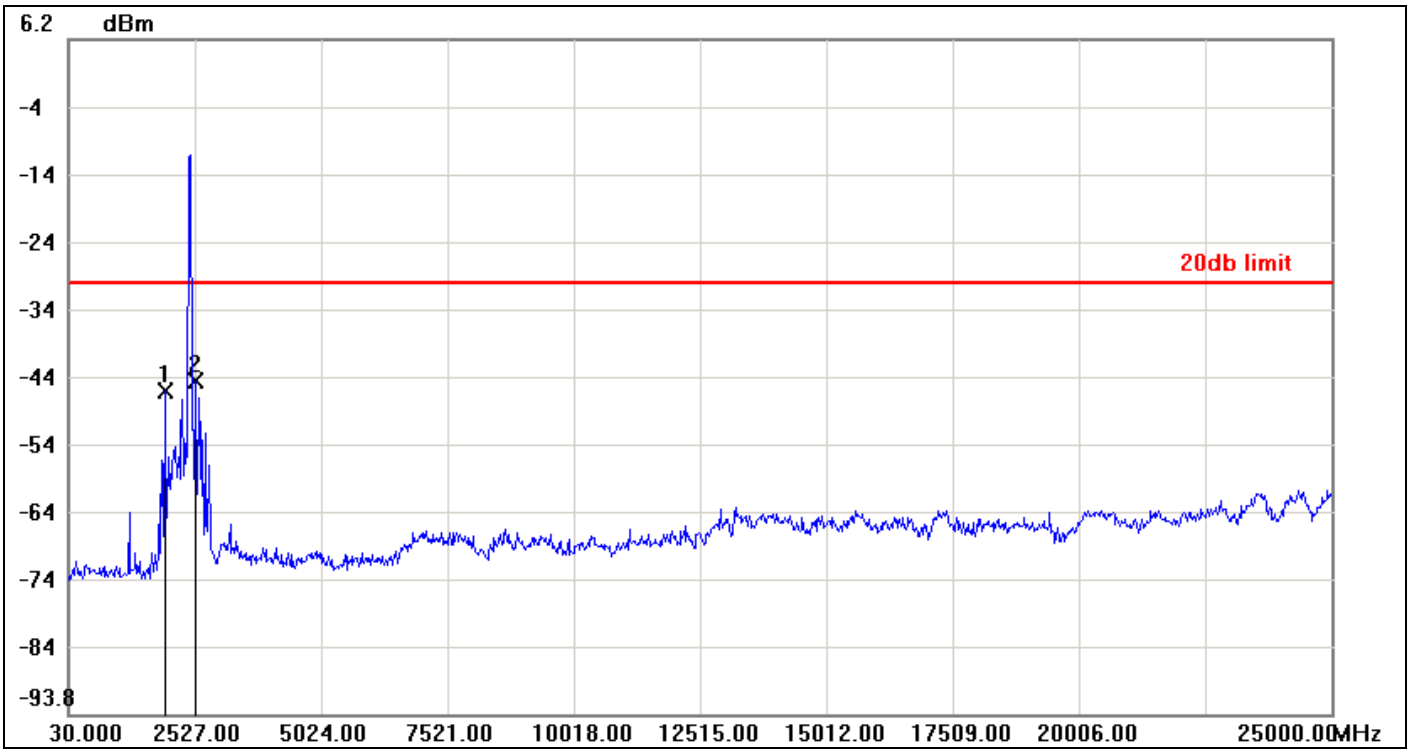
CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-46.50	-26.34	-20.16
2	2651.8500	-50.00	-26.34	-23.66

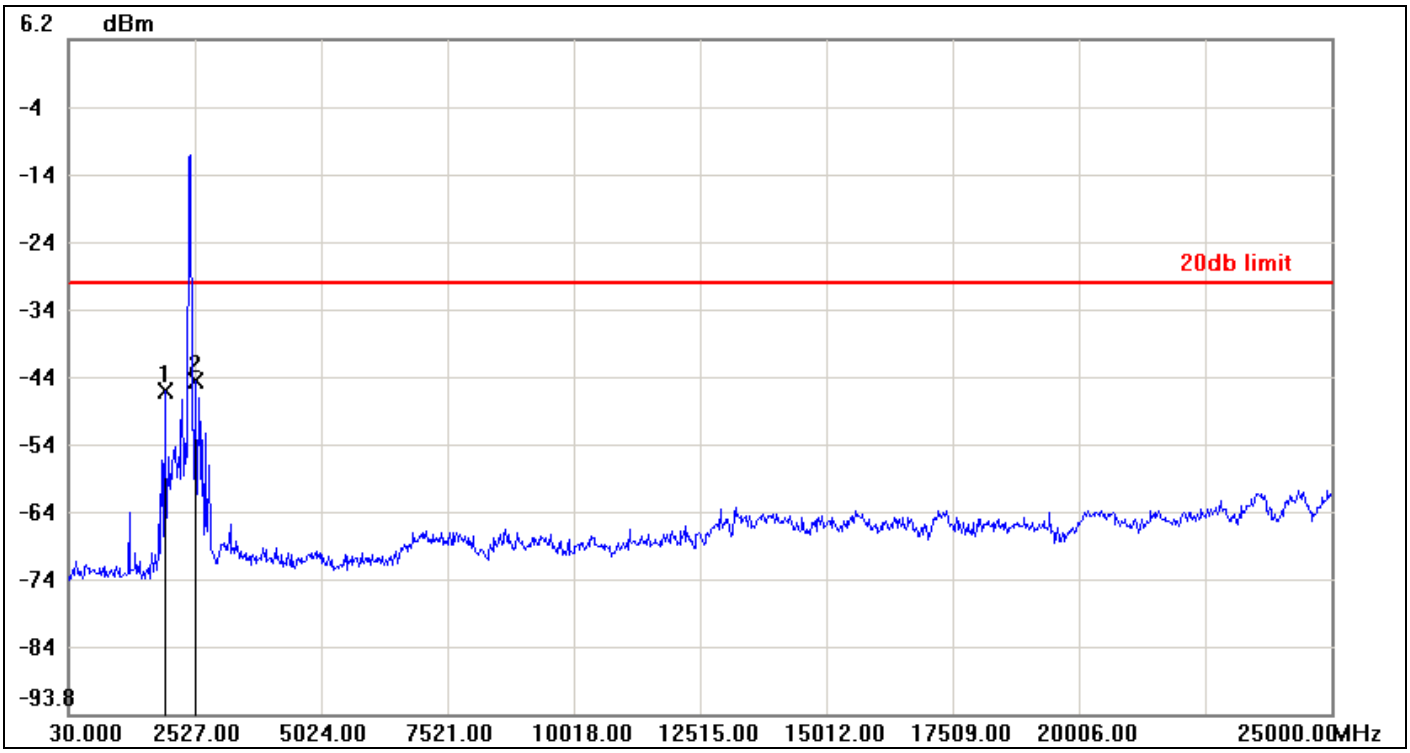
IEEE 802.11n HT 40 MHz mode / Chin 1

CH Low



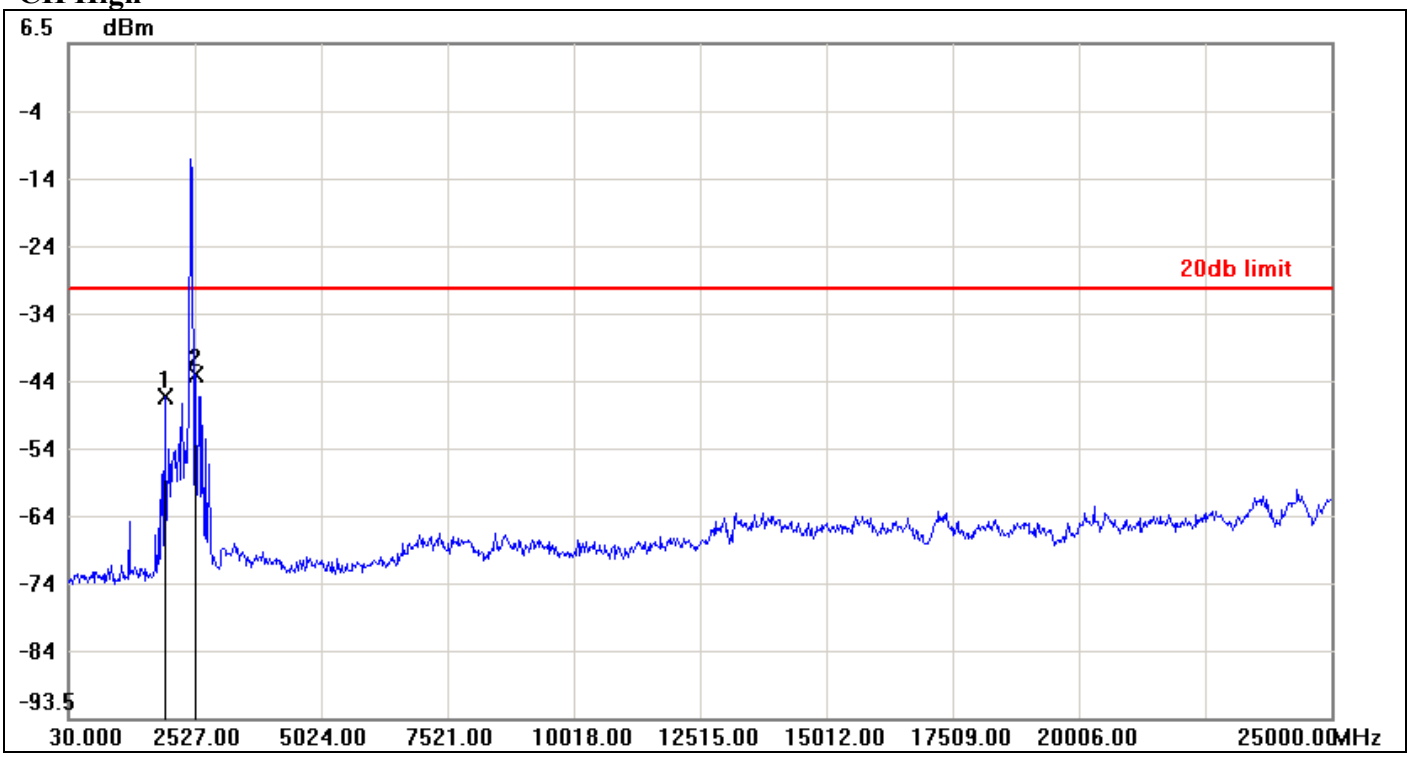
No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-46.00	-29.86	-16.14
2	2527.0000	-44.28	-29.86	-14.42

CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-46.00	-29.86	-16.14
2	2527.0000	-44.28	-29.86	-14.42

CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1927.7200	-45.90	-29.79	-16.11
2	2527.0000	-42.76	-29.79	-12.97

7.7 RADIATED EMISSIONS

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

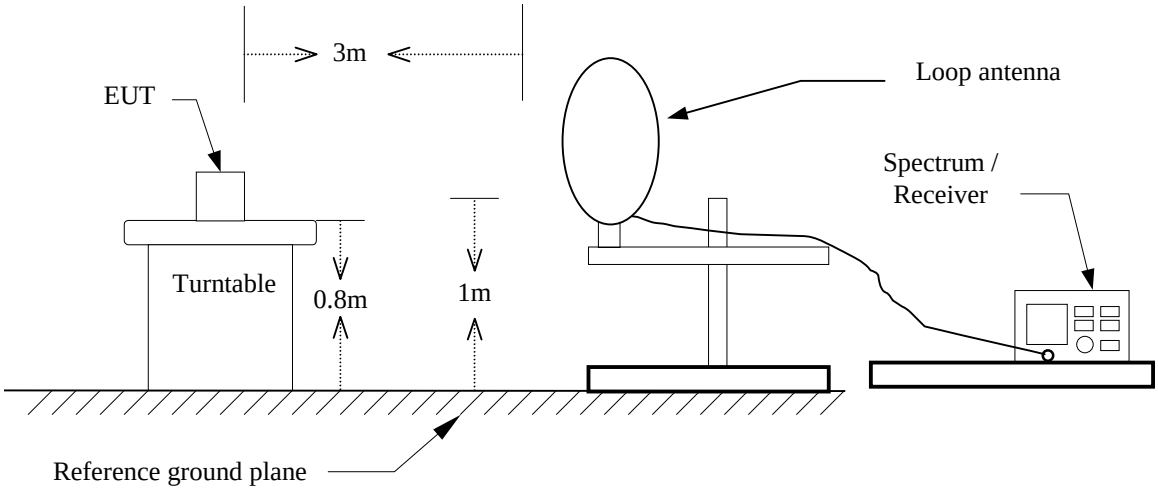
Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.*

2. In the emission table above, the tighter limit applies at the band edges.

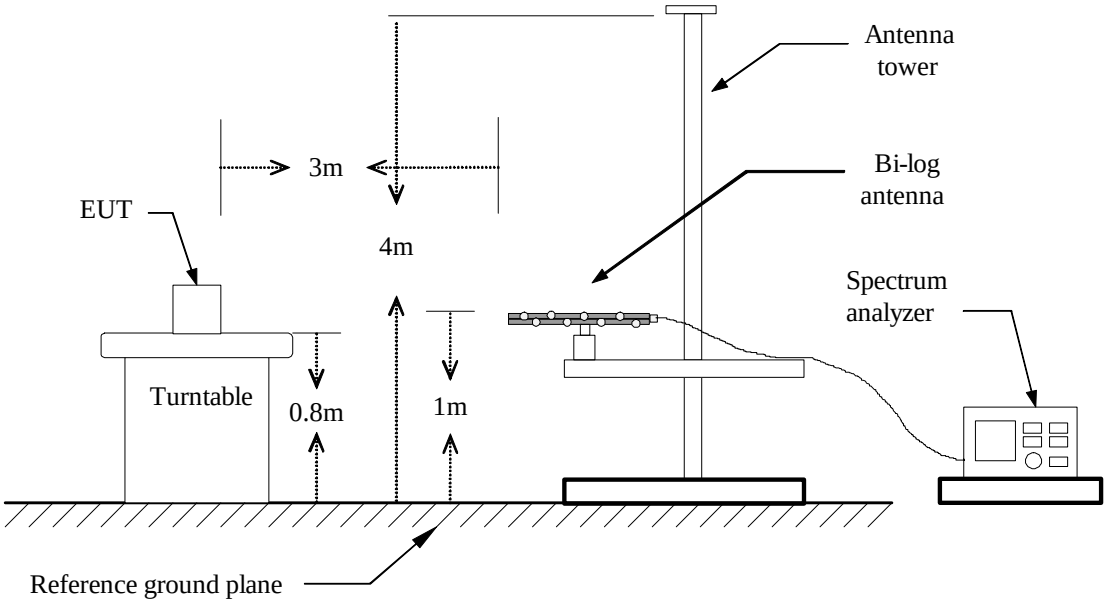
Frequency (MHz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
0.009 - 0.490	2400/F(kHz) +80	20LOG((2400/F(kHz))+80)
0.490 - 1.705	24000/F(kHz) +40	20LOG((24000/F(kHz))+40)
1.705 – 30.0	30	69.54
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

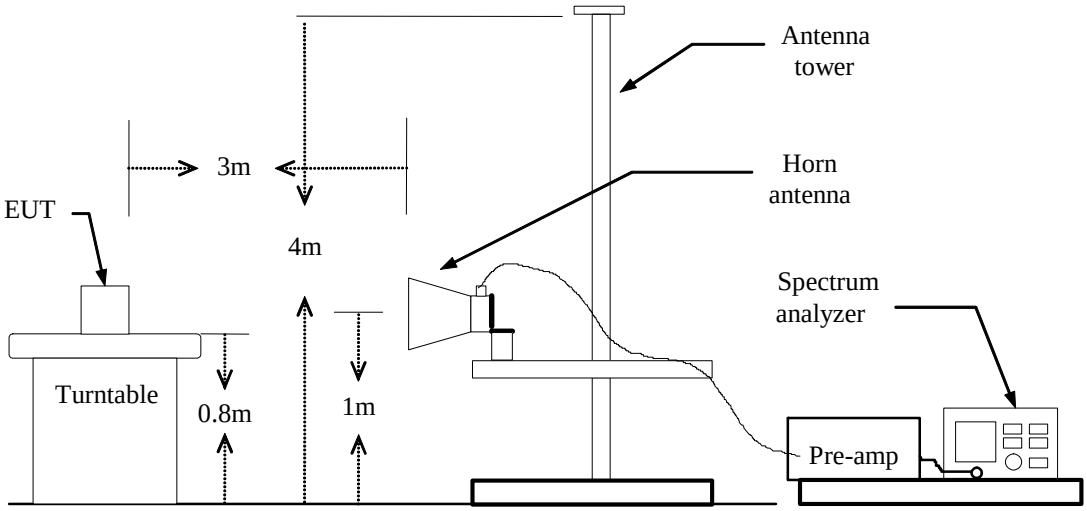
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz


Antenna
tower
3m
Horn
antenna
EUT
4m
Spectrum
analyzer
Turntable
0.8m
1m
Pre-amp

TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

   Below 1GHz:

   RBW=100kHz / VBW=300kHz / Sweep=AUTO

   Above 1GHz:

   (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

   (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

TEST RESULTS

For WHA YU

Below 1GHz

Operation Mode: Normal Link **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
65.5667	71.63	-35.30	36.33	40.00	-3.67	QP	V
101.1333	70.06	-31.50	38.56	43.50	-4.94	QP	V
141.5500	68.45	-28.67	39.78	43.50	-3.72	peak	V
400.2167	67.90	-25.52	42.38	46.00	-3.62	peak	V
500.4500	60.84	-23.43	37.41	46.00	-8.59	peak	V
875.5167	54.78	-17.74	37.04	46.00	-8.96	peak	V
105.9833	68.53	-30.67	37.86	43.50	-5.64	peak	H
275.7333	64.14	-28.11	36.03	46.00	-9.97	peak	H
374.3500	68.56	-26.06	42.50	46.00	-3.50	peak	H
624.9333	58.15	-21.60	36.55	46.00	-9.45	peak	H
875.5167	54.17	-17.74	36.43	46.00	-9.57	peak	H
1000.0000	52.69	-15.96	36.73	54.00	-17.27	peak	H

Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).*

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2196.667	55.82	-1.05	54.77	74.00	-19.23	peak	V
2196.667	44.62	-1.05	43.57	54.00	-10.43	AVG	V
2286.667	56.05	-0.88	55.17	74.00	-18.83	peak	V
2286.667	45.80	-0.88	44.92	54.00	-9.08	AVG	V
2330.000	54.85	-0.74	54.11	74.00	-19.89	peak	V
2330.000	45.60	-0.74	44.86	54.00	-9.14	AVG	V
2490.000	56.58	-0.14	56.44	74.00	-17.56	peak	V
2490.000	45.91	-0.14	45.77	54.00	-8.23	AVG	V
4908.333	43.17	6.32	49.49	74.00	-24.51	peak	V
2276.667	55.97	-0.90	55.07	74.00	-18.93	peak	H
2276.667	44.38	-0.90	43.48	54.00	-10.52	AVG	H
2336.667	56.24	-0.72	55.52	74.00	-18.48	peak	H
2336.667	45.00	-0.72	44.28	54.00	-9.72	AVG	H
2476.667	55.99	-0.19	55.80	74.00	-18.20	peak	H
2476.667	44.90	-0.19	44.71	54.00	-9.29	AVG	H
4900.000	43.39	6.30	49.69	74.00	-24.31	peak	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	58.41	-1.04	57.37	74.00	-16.63	peak	V
2200.000	46.40	-1.04	45.36	54.00	-8.64	AVG	V
2366.667	55.13	-0.61	54.52	74.00	-19.48	peak	V
2366.667	43.89	-0.61	43.28	54.00	-10.72	AVG	V
2503.333	56.26	-0.09	56.17	74.00	-17.83	peak	V
2503.333	45.04	-0.09	44.95	54.00	-9.05	AVG	V
4425.000	43.55	5.15	48.70	74.00	-25.30	peak	V
2356.667	57.46	-0.65	56.81	74.00	-17.19	peak	H
2356.667	46.64	-0.65	45.99	54.00	-8.01	AVG	H
2496.667	54.37	-0.11	54.26	74.00	-19.74	peak	H
2496.667	44.00	-0.11	43.89	54.00	-10.11	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2203.333	56.98	-1.04	55.94	74.00	-18.06	peak	V
2203.333	46.13	-1.04	45.09	54.00	-8.91	AVG	V
2280.000	57.70	-0.89	56.81	74.00	-17.19	peak	V
2280.000	46.84	-0.89	45.95	54.00	-8.05	AVG	V
2380.000	55.07	-0.56	54.51	74.00	-19.49	peak	V
2380.000	43.77	-0.56	43.21	54.00	-10.79	AVG	V
2306.667	55.42	-0.83	54.59	74.00	-19.41	peak	H
2306.667	45.01	-0.83	44.18	54.00	-9.82	AVG	H
2380.000	56.39	-0.56	55.83	74.00	-18.17	peak	H
2380.000	45.48	-0.56	44.92	54.00	-9.08	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	57.70	-1.04	56.66	74.00	-17.34	peak	V
2200.000	46.37	-1.04	45.33	54.00	-8.67	AVG	V
2280.000	55.71	-0.89	54.82	74.00	-19.18	peak	V
2280.000	44.37	-0.89	43.48	54.00	-10.52	AVG	V
2503.333	56.37	-0.09	56.28	74.00	-17.72	peak	V
2503.333	46.04	-0.09	45.95	54.00	-8.05	AVG	V
2340.000	56.55	-0.71	55.84	74.00	-18.16	peak	H
2340.000	45.90	-0.71	45.19	54.00	-8.81	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	57.34	-1.04	56.30	74.00	-17.70	peak	V
2200.000	47.63	-1.04	46.59	54.00	-7.41	AVG	V
2253.333	56.16	-0.94	55.22	74.00	-18.78	peak	V
2253.333	45.24	-0.94	44.30	54.00	-9.70	AVG	V
2366.667	55.19	-0.61	54.58	74.00	-19.42	peak	V
2366.667	44.69	-0.61	44.08	54.00	-9.92	AVG	V
2316.667	55.46	-0.79	54.67	74.00	-19.33	peak	H
2316.667	44.99	-0.79	44.20	54.00	-9.80	AVG	H
2363.333	56.91	-0.62	56.29	74.00	-17.71	peak	H
2363.333	44.70	-0.62	44.08	54.00	-9.92	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	57.73	-1.04	56.69	74.00	-17.31	peak	V
2200.000	47.71	-1.04	46.67	54.00	-7.33	AVG	V
2260.000	56.49	-0.93	55.56	74.00	-18.44	peak	V
2260.000	45.90	-0.93	44.97	54.00	-9.03	AVG	V
2386.667	55.05	-0.54	54.51	74.00	-19.49	peak	V
2386.667	44.35	-0.54	43.81	54.00	-10.19	AVG	V
2323.333	55.98	-0.77	55.21	74.00	-18.79	peak	H
2323.333	44.83	-0.77	44.06	54.00	-9.94	AVG	H
2380.000	56.41	-0.56	55.85	74.00	-18.15	peak	H
2380.000	45.45	-0.56	44.89	54.00	-9.11	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	55.18	-2.06	53.12	74.00	-20.88	peak	V
1936.667	51.34	-2.06	49.28	54.00	-4.72	AVG	V
2113.333	53.97	-1.21	52.76	74.00	-21.24	peak	V
2113.333	47.57	-1.21	46.36	54.00	-7.64	AVG	V
2560.000	53.88	0.07	53.95	74.00	-20.05	peak	V
2560.000	47.38	0.07	47.45	54.00	-6.55	AVG	V
2640.000	53.50	0.29	53.79	74.00	-20.21	peak	V
2640.000	49.51	0.29	49.80	54.00	-4.20	AVG	V
4825.000	46.21	6.12	52.33	74.00	-21.67	peak	V
4825.000	36.67	6.12	42.79	54.00	-11.21	AVG	V
7233.333	42.02	10.48	52.50	74.00	-21.50	peak	V
7233.333	30.22	10.48	40.70	54.00	-13.30	AVG	V
1936.667	53.94	-2.06	51.88	74.00	-22.12	peak	H
1936.667	50.55	-2.06	48.49	54.00	-5.51	AVG	H
2000.000	53.51	-1.43	52.08	74.00	-21.92	peak	H
2000.000	45.97	-1.43	44.54	54.00	-9.46	AVG	H
2286.667	55.17	-0.88	54.29	74.00	-19.71	peak	H
2286.667	51.97	-0.88	51.09	54.00	-2.91	AVG	H
4825.000	46.98	6.12	53.10	74.00	-20.90	peak	H
4825.000	35.18	6.12	41.30	54.00	-12.70	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	54.88	-2.06	52.82	74.00	-21.18	peak	V
1936.667	50.00	-2.06	47.94	54.00	-6.06	AVG	V
2000.000	53.68	-1.43	52.25	74.00	-21.75	peak	V
2000.000	44.92	-1.43	43.49	54.00	-10.51	AVG	V
2520.000	55.06	-0.04	55.02	74.00	-18.98	peak	V
2520.000	50.71	-0.04	50.67	54.00	-3.33	AVG	V
2600.000	52.88	0.18	53.06	74.00	-20.94	peak	V
2600.000	44.64	0.18	44.82	54.00	-9.18	AVG	V
4866.667	45.12	6.22	51.34	74.00	-22.66	peak	V
4866.667	34.11	6.22	40.33	54.00	-13.67	AVG	V
2286.667	55.04	-0.88	54.16	74.00	-19.84	peak	H
2286.667	51.21	-0.88	50.33	54.00	-3.67	AVG	H
4866.667	45.94	6.22	52.16	74.00	-21.84	peak	H
4866.667	34.61	6.22	40.83	54.00	-13.17	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	55.83	-2.06	53.77	74.00	-20.23	peak	V
1936.667	50.60	-2.06	48.54	54.00	-5.46	AVG	V
2200.000	55.10	-1.04	54.06	74.00	-19.94	peak	V
2200.000	44.10	-1.04	43.06	54.00	-10.94	AVG	V
2286.667	54.66	-0.88	53.78	74.00	-20.22	peak	V
2286.667	52.83	-0.88	51.95	54.00	-2.05	AVG	V
2360.000	55.82	-0.63	55.19	74.00	-18.81	peak	V
2360.000	51.47	-0.63	50.84	54.00	-3.16	AVG	V
2560.000	56.76	0.07	56.83	74.00	-17.17	peak	V
2560.000	45.40	0.07	45.47	54.00	-8.53	AVG	V
2640.000	57.70	0.29	57.99	74.00	-16.01	peak	V
2640.000	47.31	0.29	47.60	54.00	-6.40	AVG	V
2720.000	54.65	0.52	55.17	74.00	-18.83	peak	V
2720.000	43.88	0.52	44.40	54.00	-9.60	AVG	V
4925.000	42.75	6.37	49.12	74.00	-24.88	peak	V
7383.333	44.11	10.74	54.85	74.00	-19.15	peak	V
7383.333	31.41	10.74	42.15	54.00	-11.85	AVG	V
1936.667	54.21	-2.06	52.15	74.00	-21.85	peak	H
1936.667	48.93	-2.06	46.87	54.00	-7.13	AVG	H
2286.667	56.76	-0.88	55.88	74.00	-18.12	peak	H
2286.667	54.17	-0.88	53.29	54.00	-0.71	AVG	H
2360.000	55.47	-0.63	54.84	74.00	-19.16	peak	H
2360.000	48.89	-0.63	48.26	54.00	-5.74	AVG	H
4925.000	45.48	6.37	51.85	74.00	-22.15	peak	H
4925.000	32.95	6.37	39.32	54.00	-14.68	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 40 MHz mode / CH Low
Test Date: April 22, 2013
Temperature: 27°C
Tested by: Rex Huang
Humidity: 53% RH
Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	55.26	-2.06	53.20	74.00	-20.80	peak	V
1936.667	51.20	-2.06	49.14	54.00	-4.86	AVG	V
2000.000	54.63	-1.43	53.20	74.00	-20.80	peak	V
2000.000	44.81	-1.43	43.38	54.00	-10.62	AVG	V
2080.000	55.38	-1.28	54.10	74.00	-19.90	peak	V
2080.000	44.18	-1.28	42.90	54.00	-11.10	AVG	V
2286.667	54.04	-0.88	53.16	74.00	-20.84	peak	V
2286.667	51.24	-0.88	50.36	54.00	-3.64	AVG	V
2360.000	53.58	-0.63	52.95	74.00	-21.05	peak	V
2360.000	47.52	-0.63	46.89	54.00	-7.11	AVG	V
2520.000	54.60	-0.04	54.56	74.00	-19.44	peak	V
2520.000	53.57	-0.04	53.53	54.00	-0.47	AVG	V
2560.000	53.92	0.07	53.99	74.00	-20.01	peak	V
2560.000	44.55	0.07	44.62	54.00	-9.38	AVG	V
2600.000	53.96	0.18	54.14	74.00	-19.86	peak	V
2600.000	47.59	0.18	47.77	54.00	-6.23	AVG	V
2640.000	54.63	0.29	54.92	74.00	-19.08	peak	V
2640.000	45.08	0.29	45.37	54.00	-8.63	AVG	V
2680.000	52.87	0.40	53.27	74.00	-20.73	peak	V
2680.000	43.97	0.40	44.37	54.00	-9.63	AVG	V
4841.667	42.97	6.16	49.13	74.00	-24.87	peak	V
1936.667	56.41	-2.06	54.35	74.00	-19.65	peak	H
1936.667	52.31	-2.06	50.25	54.00	-3.75	AVG	H
2000.000	55.87	-1.43	54.44	74.00	-19.56	peak	H
2000.000	46.72	-1.43	45.29	54.00	-8.71	AVG	H
2286.667	58.73	-0.88	57.85	74.00	-16.15	peak	H
2286.667	54.79	-0.88	53.91	54.00	-0.09	AVG	H
2360.000	58.74	-0.63	58.11	74.00	-15.89	peak	H
2360.000	52.33	-0.63	51.70	54.00	-2.30	AVG	H
2560.000	54.55	0.07	54.62	74.00	-19.38	peak	H
2560.000	45.47	0.07	45.54	54.00	-8.46	AVG	H
4858.333	43.90	6.20	50.10	74.00	-23.90	peak	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 40 MHz mode / CH Mid
Test Date: April 22, 2013
Temperature: 27°C
Tested by: Rex Huang
Humidity: 53% RH
Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	54.52	-2.06	52.46	74.00	-21.54	peak	V
1936.667	50.60	-2.06	48.54	54.00	-5.46	AVG	V
2000.000	56.02	-1.43	54.59	74.00	-19.41	peak	V
2000.000	48.44	-1.43	47.01	54.00	-6.99	AVG	V
2200.000	54.36	-1.04	53.32	74.00	-20.68	peak	V
2200.000	46.55	-1.04	45.51	54.00	-8.49	AVG	V
2520.000	55.56	-0.04	55.52	74.00	-18.48	peak	V
2520.000	51.62	-0.04	51.58	54.00	-2.42	AVG	V
2600.000	54.96	0.18	55.14	74.00	-18.86	peak	V
2600.000	48.25	0.18	48.43	54.00	-5.57	AVG	V
2640.000	54.13	0.29	54.42	74.00	-19.58	peak	V
2640.000	49.87	0.29	50.16	54.00	-3.84	AVG	V
4875.000	43.56	6.24	49.80	74.00	-24.20	peak	V
1936.667	55.43	-2.06	53.37	74.00	-20.63	peak	H
1936.667	51.67	-2.06	49.61	54.00	-4.39	AVG	H
2000.000	53.80	-1.43	52.37	74.00	-21.63	peak	H
2000.000	44.13	-1.43	42.70	54.00	-11.30	AVG	H
2286.667	57.05	-0.88	56.17	74.00	-17.83	peak	H
2286.667	54.05	-0.88	53.17	54.00	-0.83	AVG	H
2360.000	55.08	-0.63	54.45	74.00	-19.55	peak	H
2360.000	47.98	-0.63	47.35	54.00	-6.65	AVG	H
2520.000	54.13	-0.04	54.09	74.00	-19.91	peak	H
2520.000	50.43	-0.04	50.39	54.00	-3.61	AVG	H
4866.667	44.21	6.22	50.43	74.00	-23.57	peak	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 40 MHz mode / CH High
Test Date: April 22, 2013
Temperature: 27°C
Tested by: Rex Huang
Humidity: 53% RH
Polarity: Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
1936.667	54.98	-2.06	52.92	74.00	-21.08	peak	V
1936.667	50.44	-2.06	48.38	54.00	-5.62	AVG	V
2000.000	56.03	-1.43	54.60	74.00	-19.40	peak	V
2000.000	47.28	-1.43	45.85	54.00	-8.15	AVG	V
2040.000	54.27	-1.35	52.92	74.00	-21.08	peak	V
2040.000	44.29	-1.35	42.94	54.00	-11.06	AVG	V
2113.333	54.76	-1.21	53.55	74.00	-20.45	peak	V
2113.333	46.27	-1.21	45.06	54.00	-8.94	AVG	V
2200.000	54.23	-1.04	53.19	74.00	-20.81	peak	V
2200.000	46.59	-1.04	45.55	54.00	-8.45	AVG	V
2286.667	54.30	-0.88	53.42	74.00	-20.58	peak	V
2286.667	46.29	-0.88	45.41	54.00	-8.59	AVG	V
2520.000	56.60	-0.04	56.56	74.00	-17.44	peak	V
2520.000	51.24	-0.04	51.20	54.00	-2.80	AVG	V
2600.000	54.45	0.18	54.63	74.00	-19.37	peak	V
2600.000	48.76	0.18	48.94	54.00	-5.06	AVG	V
2640.000	55.71	0.29	56.00	74.00	-18.00	peak	V
2640.000	51.04	0.29	51.33	54.00	-2.67	AVG	V
1936.667	55.65	-2.06	53.59	74.00	-20.41	peak	H
1936.667	52.08	-2.06	50.02	54.00	-3.98	AVG	H
2000.000	53.66	-1.43	52.23	74.00	-21.77	peak	H
2000.000	44.41	-1.43	42.98	54.00	-11.02	AVG	H
2200.000	54.08	-1.04	53.04	74.00	-20.96	peak	H
2200.000	49.56	-1.04	48.52	54.00	-5.48	AVG	H
2250.000	54.89	-0.95	53.94	74.00	-20.06	peak	H
2250.000	44.23	-0.95	43.28	54.00	-10.72	AVG	H
2286.667	56.67	-0.88	55.79	74.00	-18.21	peak	H
2286.667	54.59	-0.88	53.71	54.00	-0.29	AVG	H
2320.000	55.42	-0.78	54.64	74.00	-19.36	peak	H
2320.000	49.65	-0.78	48.87	54.00	-5.13	AVG	H
2360.000	56.88	-0.63	56.25	74.00	-17.75	peak	H
2360.000	48.61	-0.63	47.98	54.00	-6.02	AVG	H
2520.000	54.98	-0.04	54.94	74.00	-19.06	peak	H

2520.000	48.75	-0.04	48.71	54.00	-5.29	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

For LanReady

Below 1GHz

Operation Mode: Normal Link **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
65.5666	71.87	-35.30	36.57	40.00	-3.43	QP	V
101.1333	69.59	-31.50	38.09	43.50	-5.41	peak	V
143.1666	67.78	-28.72	39.06	43.50	-4.44	peak	V
249.8667	71.69	-29.65	42.04	46.00	-3.96	peak	V
374.3500	68.74	-26.06	42.68	46.00	-3.32	peak	V
400.2167	69.24	-25.52	43.72	46.00	-2.28	QP	V
101.1333	71.21	-31.50	39.71	43.50	-3.79	peak	H
143.1667	68.00	-28.72	39.28	43.50	-4.22	peak	H
249.8667	69.85	-29.65	40.20	46.00	-5.80	peak	H
374.3500	68.12	-26.06	42.06	46.00	-3.94	QP	H
400.2167	69.11	-25.52	43.59	46.00	-2.41	QP	H
624.9333	58.09	-21.60	36.49	46.00	-9.51	peak	H

Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).*

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2000.000	55.27	-1.43	53.84	74.00	-20.16	peak	V
2000.000	54.24	-1.43	52.81	54.00	-1.19	AVG	V
2336.667	55.68	-0.72	54.96	74.00	-19.04	peak	V
2336.667	48.17	-0.72	47.45	54.00	-6.55	AVG	V
2493.333	59.39	-0.13	59.26	74.00	-14.74	peak	V
2493.333	52.34	-0.13	52.21	54.00	-1.79	AVG	V
2286.667	53.33	-0.88	52.45	74.00	-21.55	peak	H
2286.667	43.81	-0.88	42.93	54.00	-11.07	AVG	H
2490.000	54.30	-0.14	54.16	74.00	-19.84	peak	H
2490.000	46.34	-0.14	46.20	54.00	-7.80	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2360.000	54.80	-0.63	54.17	74.00	-19.83	peak	V
2360.000	48.57	-0.63	47.94	54.00	-6.06	AVG	V
2500.000	57.98	-0.10	57.88	74.00	-16.12	peak	V
2500.000	50.20	-0.10	50.10	54.00	-3.90	AVG	V
2516.667	57.27	-0.05	57.22	74.00	-16.78	peak	V
2516.667	51.42	-0.05	51.37	54.00	-2.63	AVG	V
2363.333	52.98	-0.62	52.36	74.00	-21.64	peak	H
2363.333	44.15	-0.62	43.53	54.00	-10.47	AVG	H
2513.333	54.32	-0.06	54.26	74.00	-19.74	peak	H
2513.333	46.04	-0.06	45.98	54.00	-8.02	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2383.333	55.25	-0.55	54.70	74.00	-19.30	peak	V
2383.333	48.05	-0.55	47.50	54.00	-6.50	AVG	V
2543.333	57.35	0.02	57.37	74.00	-16.63	peak	V
2543.333	49.24	0.02	49.26	54.00	-4.74	AVG	V
N/A							
2243.333	53.95	-0.96	52.99	74.00	-21.01	peak	H
2243.333	41.80	-0.96	40.84	54.00	-13.16	AVG	H
2536.667	53.63	0.00	53.63	74.00	-20.37	peak	H
2536.667	43.25	0.00	43.25	54.00	-10.75	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2503.333	55.94	-0.09	55.85	74.00	-18.15	peak	V
2503.333	47.31	-0.09	47.22	54.00	-6.78	AVG	V
2640.000	55.10	0.29	55.39	74.00	-18.61	peak	V
2640.000	47.14	0.29	47.43	54.00	-6.57	AVG	V
N/A							
2326.667	52.88	-0.75	52.13	74.00	-21.87	peak	H
2326.667	46.12	-0.75	45.37	54.00	-8.63	AVG	H
2500.000	54.75	-0.10	54.65	74.00	-19.35	peak	H
2500.000	45.32	-0.10	45.22	54.00	-8.78	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2500.000	56.85	-0.10	56.75	74.00	-17.25	peak	V
2500.000	48.77	-0.10	48.67	54.00	-5.33	AVG	V
2570.000	53.94	0.10	54.04	74.00	-19.96	peak	V
2570.000	42.44	0.10	42.54	54.00	-11.46	AVG	V
N/A							
2250.000	54.11	-0.95	53.16	74.00	-20.84	peak	H
2250.000	41.94	-0.95	40.99	54.00	-13.01	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2386.667	53.93	-0.54	53.39	74.00	-20.61	peak	V
2386.667	44.31	-0.54	43.77	54.00	-10.23	AVG	V
2576.667	55.25	0.11	55.36	74.00	-18.64	peak	V
2576.667	49.22	0.11	49.33	54.00	-4.67	AVG	V
N/A							
2270.000	53.38	-0.91	52.47	74.00	-21.53	peak	H
2270.000	43.30	-0.91	42.39	54.00	-11.61	AVG	H
2553.333	52.65	0.05	52.70	74.00	-21.30	peak	H
2553.333	40.93	0.05	40.98	54.00	-13.02	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2286.667	54.29	-0.88	53.41	74.00	-20.59	peak	V
2286.667	45.53	-0.88	44.65	54.00	-9.35	AVG	V
2640.000	56.41	0.29	56.70	74.00	-17.30	peak	V
2640.000	50.33	0.29	50.62	54.00	-3.38	AVG	V
N/A							
2286.667	54.18	-0.88	53.30	74.00	-20.70	peak	H
2286.667	47.92	-0.88	47.04	54.00	-6.96	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2113.333	53.69	-1.21	52.48	74.00	-21.52	peak	V
2113.333	41.95	-1.21	40.74	54.00	-13.26	AVG	V
2500.000	55.66	-0.10	55.56	74.00	-18.44	peak	V
2500.000	46.48	-0.10	46.38	54.00	-7.62	AVG	V
2640.000	56.57	0.29	56.86	74.00	-17.14	peak	V
2640.000	51.61	0.29	51.90	54.00	-2.10	AVG	V
2286.667	53.97	-0.88	53.09	74.00	-20.91	peak	H
2286.667	46.76	-0.88	45.88	54.00	-8.12	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2286.667	53.46	-0.88	52.58	74.00	-21.42	peak	V
2286.667	41.89	-0.88	41.01	54.00	-12.99	AVG	V
2640.000	55.37	0.29	55.66	74.00	-18.34	peak	V
2640.000	50.41	0.29	50.70	54.00	-3.30	AVG	V
N/A							
2276.667	53.15	-0.90	52.25	74.00	-21.75	peak	H
2276.667	42.12	-0.90	41.22	54.00	-12.78	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH Low	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2640.000	55.57	0.29	55.86	74.00	-18.14	peak	V
2640.000	51.24	0.29	51.53	54.00	-2.47	AVG	V
N/A							
2233.333	53.19	-0.98	52.21	74.00	-21.79	peak	H
2233.333	41.76	-0.98	40.78	54.00	-13.22	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH Mid	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2640.000	56.57	0.29	56.86	74.00	-17.14	peak	V
2640.000	52.57	0.29	52.86	54.00	-1.14	AVG	V
N/A							
2286.667	54.86	-0.88	53.98	74.00	-20.02	peak	H
2286.667	46.56	-0.88	45.68	54.00	-8.32	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH High	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2640.000	55.66	0.29	55.95	74.00	-18.05	peak	V
2640.000	52.66	0.29	52.95	54.00	-1.05	AVG	V
N/A							
2240.000	53.30	-0.97	52.33	74.00	-21.67	peak	H
2240.000	42.09	-0.97	41.12	54.00	-12.88	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

For Grand-Tek

Below 1GHz

Operation Mode: Normal Link **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
30.0000	56.97	-20.45	36.52	40.00	-3.48	peak	V
54.2500	71.83	-35.41	36.42	40.00	-3.58	peak	V
101.1333	71.88	-31.50	40.38	43.50	-3.12	peak	V
143.1666	68.78	-28.72	40.06	43.50	-3.44	peak	V
280.5833	67.37	-28.03	39.34	46.00	-6.66	peak	V
400.2167	62.34	-25.52	36.82	46.00	-9.18	peak	V
54.2500	68.79	-35.41	33.38	40.00	-6.62	peak	H
101.1333	70.68	-31.50	39.18	43.50	-4.32	QP	H
141.5500	68.01	-28.67	39.34	43.50	-4.16	peak	H
233.7000	65.60	-29.92	35.68	46.00	-10.32	peak	H
316.1500	65.25	-27.35	37.90	46.00	-8.10	peak	H
600.6833	54.15	-22.47	31.68	46.00	-14.32	peak	H

Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.*
4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
5. *Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).*

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2210.000	59.67	-1.02	58.65	74.00	-15.35	peak	V
2210.000	46.23	-1.02	45.21	54.00	-8.79	AVG	V
2253.333	59.15	-0.94	58.21	74.00	-15.79	peak	V
2253.333	46.61	-0.94	45.67	54.00	-8.33	AVG	V
2500.000	60.52	-0.10	60.42	74.00	-13.58	peak	V
2500.000	50.67	-0.10	50.57	54.00	-3.43	AVG	V
2576.667	59.95	0.11	60.06	74.00	-13.94	peak	V
2576.667	47.69	0.11	47.80	54.00	-6.20	AVG	V
2500.000	54.28	-0.10	54.18	74.00	-19.82	peak	H
2500.000	42.46	-0.10	42.36	54.00	-11.64	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	60.31	-1.04	59.27	74.00	-14.73	peak	V
2200.000	52.03	-1.04	50.99	54.00	-3.01	AVG	V
2360.000	60.08	-0.63	59.45	74.00	-14.55	peak	V
2360.000	49.08	-0.63	48.45	54.00	-5.55	AVG	V
2500.000	62.48	-0.10	62.38	74.00	-11.62	peak	V
2500.000	51.25	-0.10	51.15	54.00	-2.85	AVG	V
2576.667	60.35	0.11	60.46	74.00	-13.54	peak	V
2576.667	48.12	0.11	48.23	54.00	-5.77	AVG	V
2520.000	54.21	-0.04	54.17	74.00	-19.83	peak	H
2520.000	42.54	-0.04	42.50	54.00	-11.50	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	60.28	-1.04	59.24	74.00	-14.76	peak	V
2200.000	50.81	-1.04	49.77	54.00	-4.23	AVG	V
2500.000	60.69	-0.10	60.59	74.00	-13.41	peak	V
2500.000	50.31	-0.10	50.21	54.00	-3.79	AVG	V
2573.333	60.81	0.11	60.92	74.00	-13.08	peak	V
2573.333	49.24	0.11	49.35	54.00	-4.65	AVG	V
2180.000	52.48	-1.08	51.40	74.00	-22.60	peak	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	59.88	-1.04	58.84	74.00	-15.16	peak	V
2200.000	51.33	-1.04	50.29	54.00	-3.71	AVG	V
2286.667	59.94	-0.88	59.06	74.00	-14.94	peak	V
2286.667	47.14	-0.88	46.26	54.00	-7.74	AVG	V
2576.667	60.54	0.11	60.65	74.00	-13.35	peak	V
2576.667	47.98	0.11	48.09	54.00	-5.91	AVG	V
2503.333	53.83	-0.09	53.74	74.00	-20.26	peak	H
2503.333	42.71	-0.09	42.62	54.00	-11.38	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	61.08	-1.04	60.04	74.00	-13.96	peak	V
2200.000	51.00	-1.04	49.96	54.00	-4.04	AVG	V
2520.000	60.43	-0.04	60.39	74.00	-13.61	peak	V
2520.000	51.85	-0.04	51.81	54.00	-2.19	AVG	V
2576.667	59.97	0.11	60.08	74.00	-13.92	peak	V
2576.667	48.86	0.11	48.97	54.00	-5.03	AVG	V
2200.000	52.30	-1.04	51.26	74.00	-22.74	peak	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2200.000	60.37	-1.04	59.33	74.00	-14.67	peak	V
2200.000	51.20	-1.04	50.16	54.00	-3.84	AVG	V
2500.000	61.12	-0.10	61.02	74.00	-12.98	peak	V
2500.000	50.94	-0.10	50.84	54.00	-3.16	AVG	V
2526.667	60.08	-0.03	60.05	74.00	-13.95	peak	V
2526.667	49.91	-0.03	49.88	54.00	-4.12	AVG	V
2576.667	60.07	0.11	60.18	74.00	-13.82	peak	V
2576.667	49.23	0.11	49.34	54.00	-4.66	AVG	V
2156.667	52.04	-1.13	50.91	74.00	-23.09	peak	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Low **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2520.000	52.55	-0.04	52.51	74.00	-21.49	peak	V
2520.000	44.89	-0.04	44.85	54.00	-9.15	AVG	V
N/A							
2520.000	53.29	-0.04	53.25	74.00	-20.75	peak	H
2520.000	50.07	-0.04	50.03	54.00	-3.97	AVG	H
2560.000	53.22	0.07	53.29	74.00	-20.71	peak	H
2560.000	47.24	0.07	47.31	54.00	-6.69	AVG	H
2640.000	54.24	0.29	54.53	74.00	-19.47	peak	H
2640.000	47.80	0.29	48.09	54.00	-5.91	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH Mid **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2306.667	51.85	-0.83	51.02	74.00	-22.98	peak	V
N/A							
2520.000	55.25	-0.04	55.21	74.00	-18.79	peak	H
2520.000	52.64	-0.04	52.60	54.00	-1.40	AVG	H
2600.000	53.59	0.18	53.77	74.00	-20.23	peak	H
2600.000	47.60	0.18	47.78	54.00	-6.22	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode: TX / IEEE 802.11n HT 20 MHz mode / CH High **Test Date:** April 22, 2013

Temperature: 27°C **Tested by:** Rex Huang

Humidity: 53% RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2286.667	51.73	-0.88	50.85	74.00	-23.15	peak	V
N/A							
							V
2520.000	54.41	-0.04	54.37	74.00	-19.63	peak	H
2520.000	51.17	-0.04	51.13	54.00	-2.87	AVG	H
2600.000	53.22	0.18	53.40	74.00	-20.60	peak	H
2600.000	47.70	0.18	47.88	54.00	-6.12	AVG	H
2640.000	53.00	0.29	53.29	74.00	-20.71	peak	H
2640.000	45.29	0.29	45.58	54.00	-8.42	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH Low	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2310.000	52.36	-0.81	51.55	74.00	-22.45	peak	V
N/A							
2520.000	53.90	-0.04	53.86	74.00	-20.14	peak	H
2520.000	51.46	-0.04	51.42	54.00	-2.58	AVG	H
2600.000	53.55	0.18	53.73	74.00	-20.27	peak	H
2600.000	49.15	0.18	49.33	54.00	-4.67	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH Mid	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2520.000	53.52	-0.04	53.48	74.00	-20.52	peak	V
2520.000	47.19	-0.04	47.15	54.00	-6.85	AVG	V
N/A							
2520.000	55.18	-0.04	55.14	74.00	-18.86	peak	H
2520.000	50.42	-0.04	50.38	54.00	-3.62	AVG	H
2600.000	54.09	0.18	54.27	74.00	-19.73	peak	H
2600.000	48.30	0.18	48.48	54.00	-5.52	AVG	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Operation Mode:	TX / IEEE 802.11n HT 40 MHz mode / CH High	**Test Date:**	April 22, 2013
Temperature:	27°C	**Tested by:**	Rex Huang
Humidity:	53% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant. Pol. (H/V)
2520.000	53.09	-0.04	53.05	74.00	-20.95	peak	V
2520.000	48.07	-0.04	48.03	54.00	-5.97	AVG	V
N/A							
2520.000	54.54	-0.04	54.50	74.00	-19.50	peak	H
2520.000	53.61	-0.04	53.57	54.00	-0.43	AVG	H
2560.000	55.79	0.07	55.86	74.00	-18.14	peak	H
2560.000	42.95	0.07	43.02	54.00	-10.98	AVG	H
2640.000	54.67	0.29	54.96	74.00	-19.04	peak	H
2640.000	42.65	0.29	42.94	54.00	-11.06	AVG	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit or as required by the applicant.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

7.8 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBμV)	
	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

** Decreases with the logarithm of the frequency.*

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST 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 frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode:	Normal Link	*Test Date:*	2013/5/8
Temperature:	25°C	*Tested by:*	Peter Chang
Humidity:	60% RH		

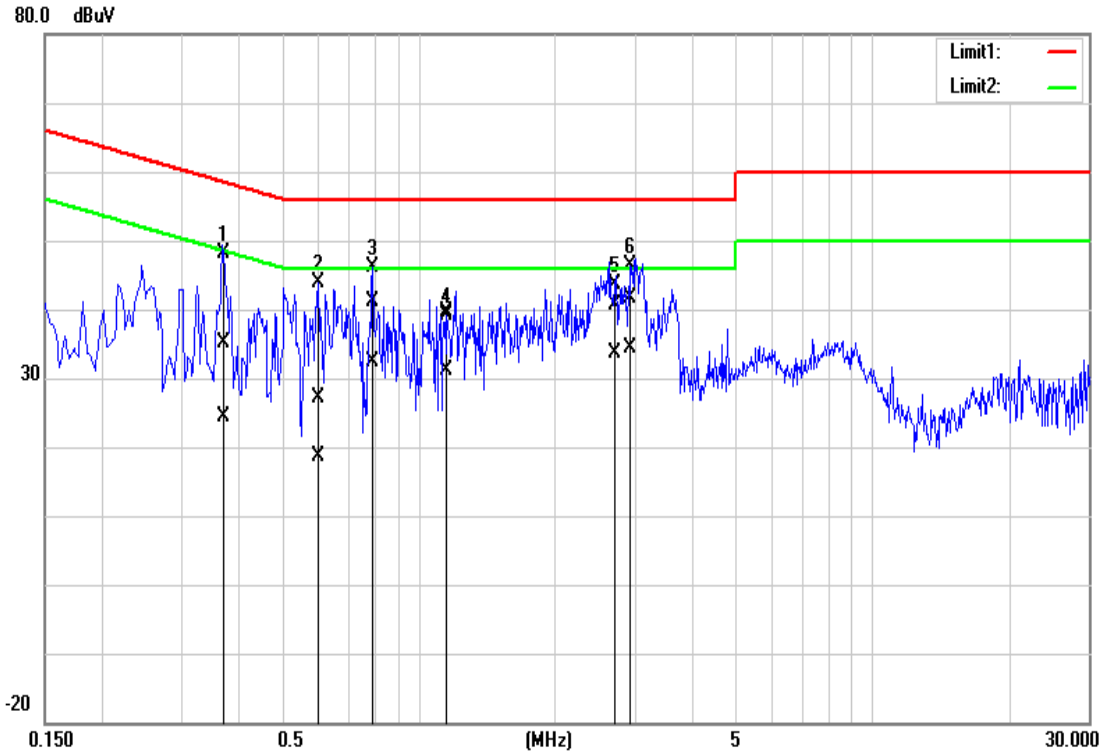
Frequency (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.3744	25.23	14.61	9.88	35.11	24.49	58.40	48.40	-23.29	-23.91	L1
0.5977	17.35	8.77	9.89	27.24	18.66	56.00	46.00	-28.76	-27.34	L1
0.7884	31.18	22.45	9.90	41.08	32.35	56.00	46.00	-14.92	-13.65	L1
1.1473	29.64	21.11	9.91	39.55	31.02	56.00	46.00	-16.45	-14.98	L1
2.6719	30.67	23.57	9.97	40.64	33.54	56.00	46.00	-15.36	-12.46	L1
2.9256	31.77	24.43	9.98	41.75	34.41	56.00	46.00	-14.25	-11.59	L1
0.5222	29.91	18.01	9.66	39.57	27.67	56.00	46.00	-16.43	-18.33	L2
0.6229	29.47	17.93	9.67	39.14	27.60	56.00	46.00	-16.86	-18.40	L2
0.7863	31.08	22.39	9.68	40.76	32.07	56.00	46.00	-15.24	-13.93	L2
2.5062	31.99	24.71	9.75	41.74	34.46	56.00	46.00	-14.26	-11.54	L2
2.9883	31.12	23.62	9.76	40.88	33.38	56.00	46.00	-15.12	-12.62	L2
4.8828	29.97	23.53	9.83	39.80	33.36	56.00	46.00	-16.20	-12.64	L2

Remark:

1. *Measuring frequencies from 0.15 MHz to 30MHz.*
2. *The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.*
3. *The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;*
4. *L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)*

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)