FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Product Name: YI Dome Camera
Brand Name: YI
Model No.: YHS.1916
Series Model.: N/A
FCC ID: 2AFIB-YHS1916
Test Report Number:
C160628R01-RPW

Issued for

Shanghai Xiaoyi Technology Co., Ltd.
6F,Building E,No.2889,Jinke Road,Shanghai,China

Issued by

Compliance Certification Services Inc.
Kun shan Laboratory
No.10 Weiye Rd., Innovation park, Eco&Tec,
Development Zone, Kunshan City, Jiangsu, China
TEL: 86-512-57355888
FAX: 86-512-57370818

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	July 26, 2016	C160628R01-RPW	ALL	N/A

1. TEST RESULT CERTIFICATION

Product Name:	YI Dome Camera
Trade Name:	YI
Model Name.:	YHS.1916
Series Model:	N/A
Applicant Discrepancy:	Initial
Device Category:	Mobile unit
Date of Test:	July 14, 2016 ~ July 25, 2016
Applicant:	**Shanghai Xiaoyi Technology Co., Ltd.** 6F,Building_E,No.2889,Jinke_Road,Shanghai,China
Manufacturer:	**Shanghai Xiaoyi Technology Co., Ltd.** 6F,Building_E,No.2889,Jinke_Road,Shanghai,China
Application Type:	Certification

APPLICABLE STANDARDS	
STANDARD	**TEST RESULT**
FCC 47 CFR Part 15 Subpart C	No non-compliance noted

We hereby certify that:

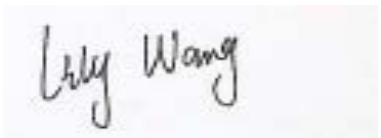
The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described 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:

Jeff.Fang
RF Manager
Compliance Certification Service Inc.

Tested by:



Lily.Wang
Test Engineer
Compliance Certification Service Inc.

2. EUT DESCRIPTION

Product Name:	YI Dome Camera
Brand Name:	YI
Model Name:	YHS.1916
Series Model:	N/A
Model Discrepancy:	N/A
Power Adapter:	For SUN-0500300 Model:A8-501000 INPUT: 100-240V~50/60Hz 0.2A Max OUTPUT : 5 V⎓1.0A
Frequency Range:	IEEE 802.11b/g: 2412MHz to 2462 MHz IEEE 802.11n HT20: 2412MHz to 2462 MHz IEEE 802.11n HT40: 2422MHz to 2452 MHz
Transmit Power:	IEEE 802.11b mode: 20.41dBm IEEE 802.11g mode: 17.24 dBm IEEE 802.11n HT20 mode: 16.97 dBm IEEE 802.11n HT40 mode: 16.51 dBm
Modulation Technique:	IEEE802.11b mode: DSSS (1,2,5.5 and 11 Mbps) IEEE802.11g mode: DSSS /OFDM (6,9,12,18,24,36,48 and 54 Mbps) IEEE802.11n HT20 mode: OFDM (MCS0~MCS7) IEEE802.11n HT40 mode: OFDM (MCS0~MCS7)
Number of Channels:	IEEE 802.11b/g mode: 11 Channels IEEE 802.11n HT20 : 11 Channels IEEE 802.11n HT40 : 9 Channels
Antenna Specification:	PIFA Antenna Gain: 2.45 dBi

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: 2AFIB-YHS1916*** filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10 2013 and FCC CFR 47 15.207, 15.209 and 15.247.

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 C63.10 2013 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

Under 1GHz

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 C63.10:2013.

Above 1GHz

The EUT is placed on a turn table, which is 1.5 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 C63.10:2013.

3.4.FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

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 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

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

[2] Above 38.6

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 worst-case data rates:
IEEE802.11b mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 1Mbps data rate was chosen for full testing.

IEEE802.11g mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 6Mbps data rate was chosen for full testing.

IEEE 802.11n HT20 MHz Channel mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with MCS0 data rate was chosen for full testing.

IEEE 802.11n HT40 MHz Channel mode:

Channel Low (2422MHz)

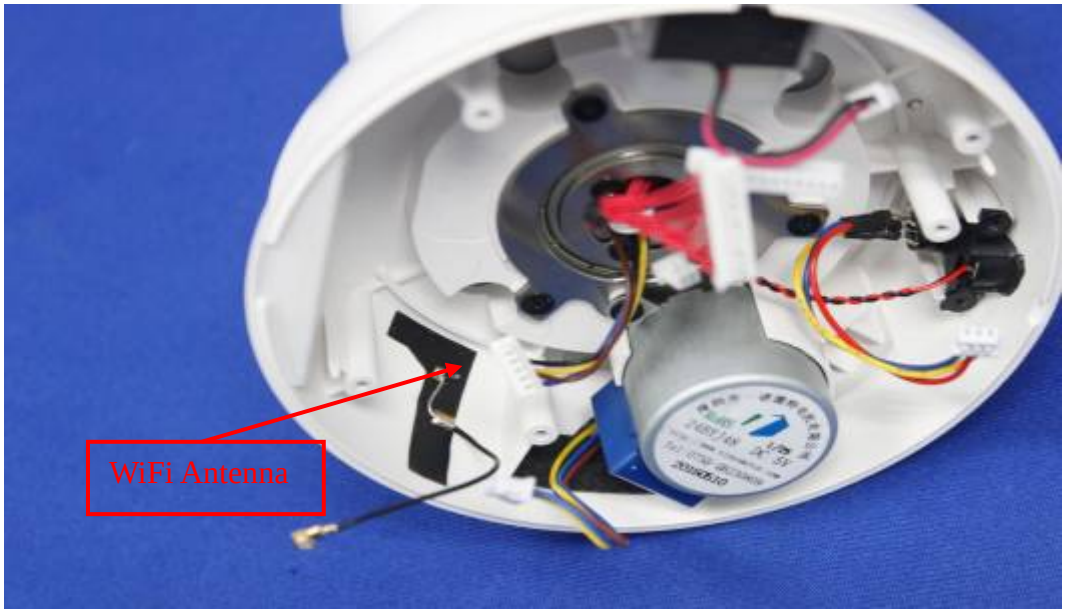
Channel Mid (2437MHz)

Channel High (2452MHz) with MCS0 data rate was chosen for full testing.

3.6.ANTENNA DESCRIPTION

an intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached or an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section”

* the antenna of this EUT is a unique(PIFA Antenna for WiFi and Bluetooth).
* the EUT complies with the requirement of 15.203.



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.

Equipment Used for Emissions Measurement

Conducted Emissions Test Site					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10
Spectrum Analyzer	RS	FSU26	200789	2015-8-10	2016-8-9
OSCILLOSCOPE	Agilent	DSO6104A	MY44002585	2016-3-2	2017-3-1
Power meter	Anritsu	ML2495A	1445010	2016-5-16	2017-5-15
Power sensor	Anritsu	MA2411B	1339220	2016-5-16	2017-5-15
Power SPLITTER	Mini-Circuits	ZN2PD-9G	SF078500430	N.C.R	N.C.R
DC Power Supply	AGILENT	E3632A	MY50340053	N.C.R	N.C.R
Temp. / Humidity Gauge	Anymetre	TH603	CCS007	2015-11-4	2016-11-3
Test Software			EZ-EMC		

977 Chamber					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY44020154	2015-9-11	2016-9-10
Spectrum Analyzer	RS	FSU26	200789	2015-8-10	2016-8-9
EMI Test Receiver	R&S	ESCI	101378	2016-1-6	2017-1-5
Pre-Amplfier	MINI	ZFL-1000VH2	070306	2016-1-13	2017-1-12
Pre-Amplfier	Miteq	JS41-00101800-32-10P	1675713	2015-8-10	2016-8-9
Bilog Antenna	Sunol	JB1	A062604	2016-5-29	2017-5-28
Bilog Antenna	Sunol	JB1	A110204-1	2016-7-16	2017-7-15
Loop Antenna	SCHWARZBECK	HXYZ9170	9170-108	2016-4-7	2017-4-6
Horn-antenna	SCHWARZBECK	9120D	D:266	2016-3-6	2017-3-5
Horn-antenna	SCHWARZBECK	9120D	D:267	2015-11-10	2016-11-9
Turn Table	CT	CT123	4165	N.C.R	N.C.R
Antenna Tower	CT	CTERG23	3256	N.C.R	N.C.R
Controller	CT	CT1OO	95637	N.C.R	N.C.R
Test Software			EZ-EMC		

Conducted Emission					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI TEST RECEIVER	R&S	ESCI	100781	2016-3-2	2017-3-1
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	2015-11-2	2016-11-1
LISN (EUT)	FCC	FCC-LISN-50/250-50-2-02	05012	2015-9-16	2016-9-15
Pulse LIMITER	R&S	ESH3-Z2	100524	2016-1-6	2017-1-5
Test Software			EZ-EMC		

Remark: *The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.*

Expanded Uncertainty (95% CONFIDENCE INTERVAL): K=2

5. FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at
CCS China Kunshan Lab at 10#Weiye Rd, Innovation Park Eco. & Tec. Development Zone

Kunshan city JiangSu, (215300), CHINA.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 2013 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. LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 200581-0 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, 2324E-1 for 10m chamber 10m, 2324E-2 for 10m chamber 3m; the test facilities are listed with USA, Certification and Engineering Bureau, 424105 for 10m chamber 10m, 238958 for 10m chamber 3m.

5.4.TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	47 CFR FCC Part 15/18 (using ANSI C63.10 :2013)；VCCI V3; CNS 13438; CNS 13439; CNS 13803; CISPR 11; EN 55011; CISPR 13; EN 55013; CISPR 22:2005; CISPR 22:1997 +A1 :2000+A2 :2002；EN 55022:2006; EN55022 :1998 +A1 :2001+A2 :2003；EN 61000-6-3 (excluding discontinuous interference); EN 61000-6-4; AS/NZS CISPR 22；CAN/CSA-CEI/IEC CISPR 22；EN 61000-3-2；EN 61000-3-3；EN550024； EN 61000-4-2；EN 61000-4-3；EN61000-4-4；EN 61000-4-5； EN 61000-4-6；IEC 61000-4-8；EN 61000-4-11；IEC61000-3-2；IEC61000-3-3；IEC 61000-4-2； IEC 61000-4-3；IEC 61000-4-4； IEC 61000-4-5；IEC 61000-4-6；IEC 61000-4-8；IEC 61000-4-11；EN 300 220-3; EN 300 328; EN 300 330-2; EN 300 440-1; EN 300-440-2; EN 300 893; EN 301 489-01; EN 301 489-3; EN 301 489-07; EN 301 489-17；47 CFR FCC Part 15, 22, 24	A2LA ACCREDITED TESTING CERT #2541.01
USA	FCC	3/10 meter Sites to perform FCC Part 15/18 measurements	93105, 90471
Japan	VCCI	3/10 meter Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-1600 C-1707 G-216

** 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 1 for the actual connections between EUT and support equipment.

6.2.SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID
1.	N/A				

Remark:

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

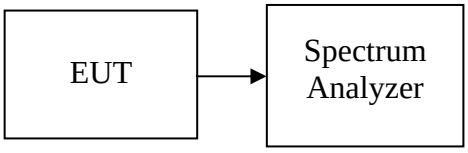
7. FCC PART 15.247 REQUIREMENTS

7.1.6DB BANDWIDTH

LIMIT

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

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW set as100KHz.,The VBW set as 3 times the RBW, set detector as Peak, the sweep time is auto.

TEST RESULTS

No non-compliance noted

Test Data

IEEE 802.11b mode

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	7.762	>500	PASS
Mid	2437	7.684		PASS
High	2462	7.551		PASS

IEEE 802.11g mode

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.702	>500	PASS
Mid	2437	16.070		PASS
High	2462	15.767		PASS

IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.994	>500	PASS
Mid	2437	17.275		PASS
High	2462	17.218		PASS

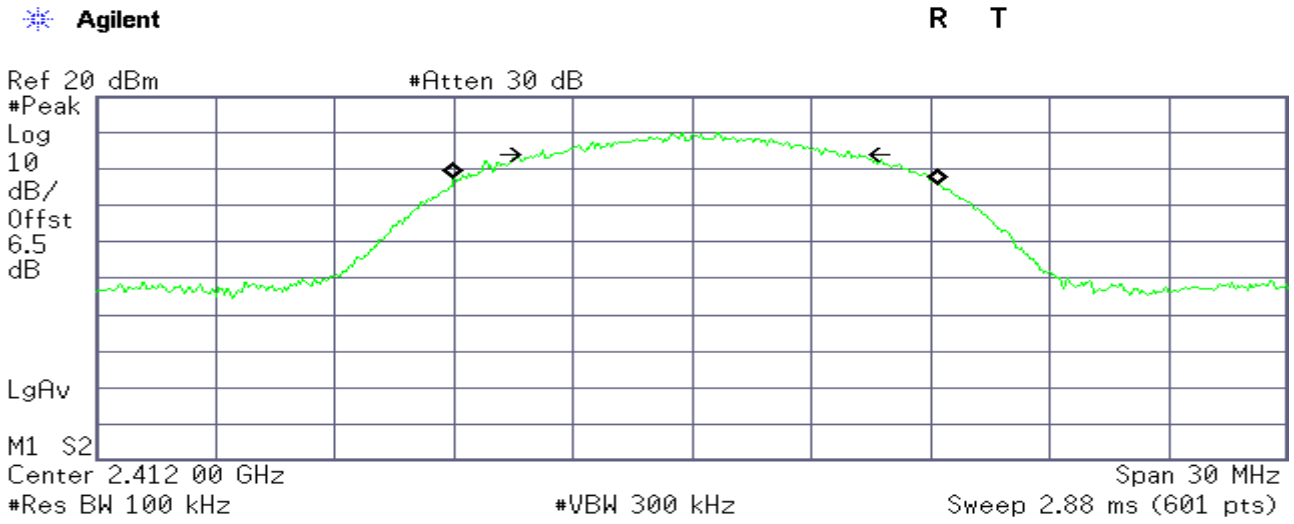
IEEE 802.11n HT40 mode

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.225	>500	PASS
Mid	2437	35.217		PASS
High	2452	35.213		PASS

Test Plot

IEEE 802.11b MODE

6dB Bandwidth (CH Low)

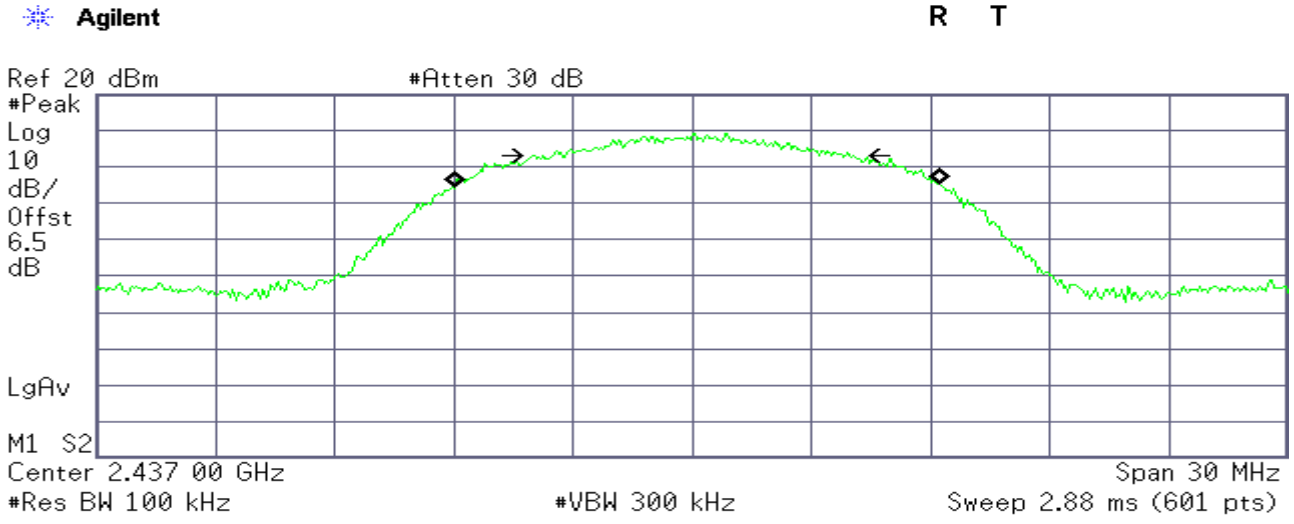


Occupied Bandwidth
12.1798 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 103.449 kHz
x dB Bandwidth 7.762 MHz

6dB Bandwidth (CH Mid)

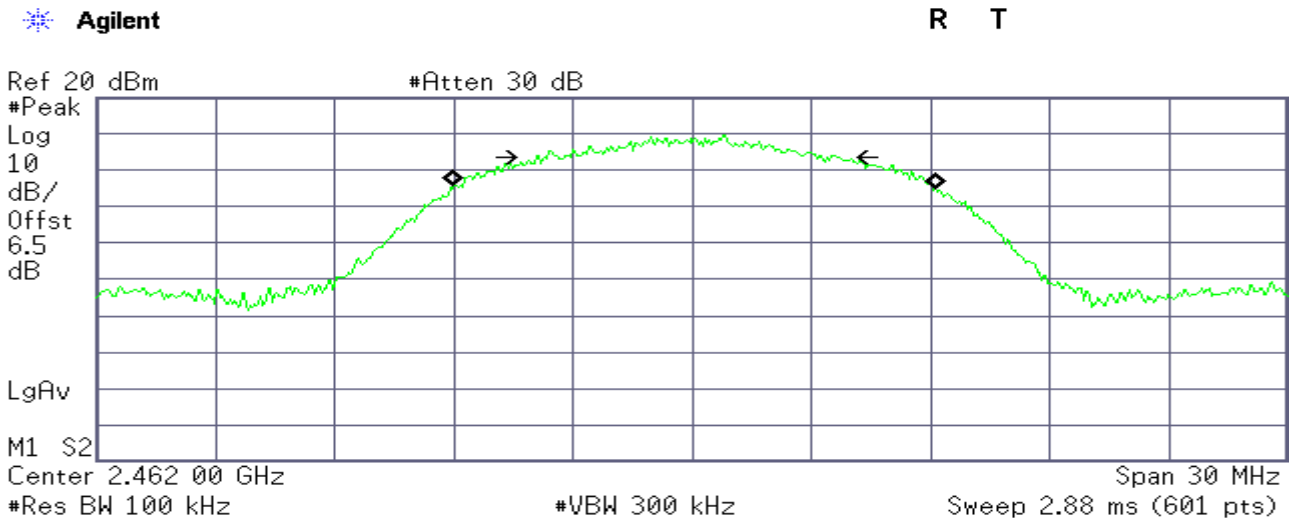


Occupied Bandwidth
12.2060 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 131.622 kHz
x dB Bandwidth 7.684 MHz

6dB Bandwidth (CH High)



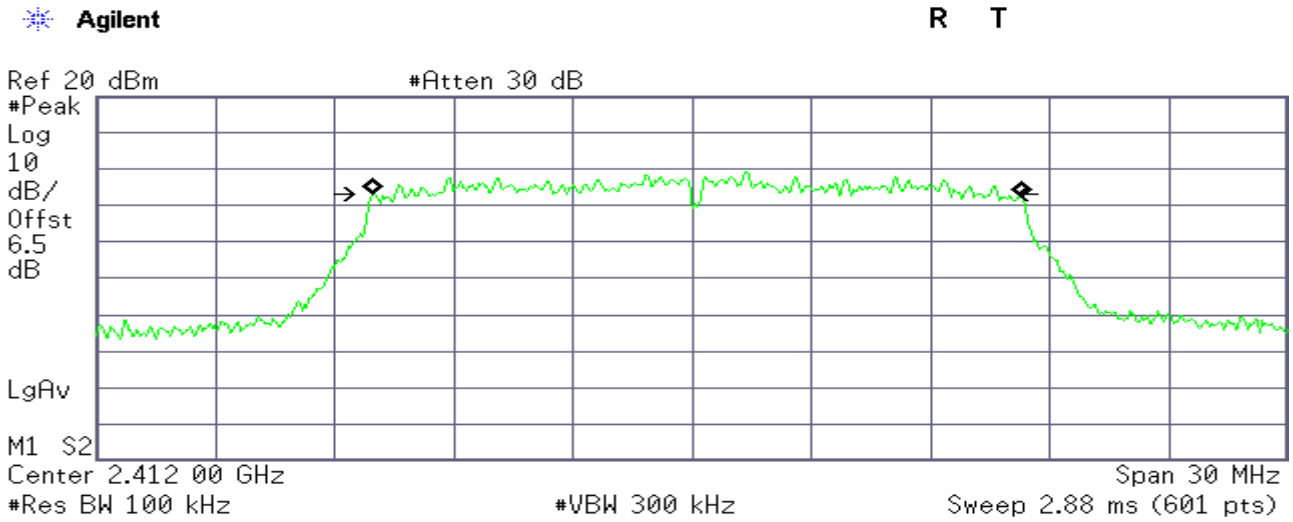
Occupied Bandwidth
12.1156 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 82.226 kHz
x dB Bandwidth 7.551 MHz

IEEE 802.11g MODE

6dB Bandwidth (CH Low)

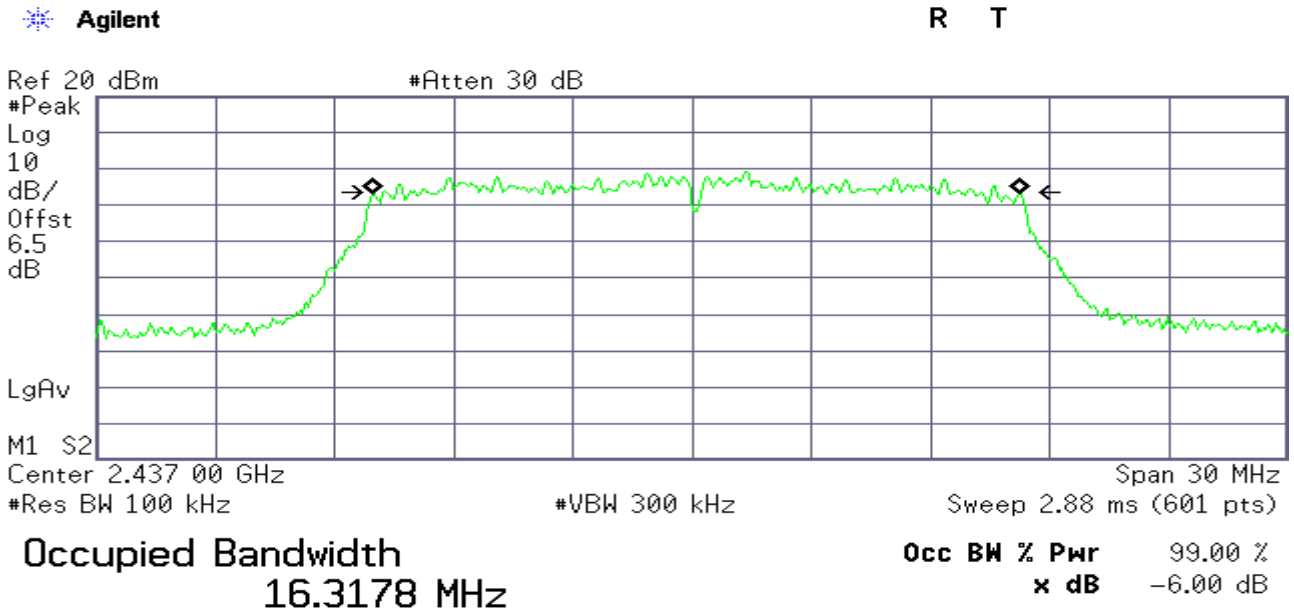


Occupied Bandwidth
16.3186 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

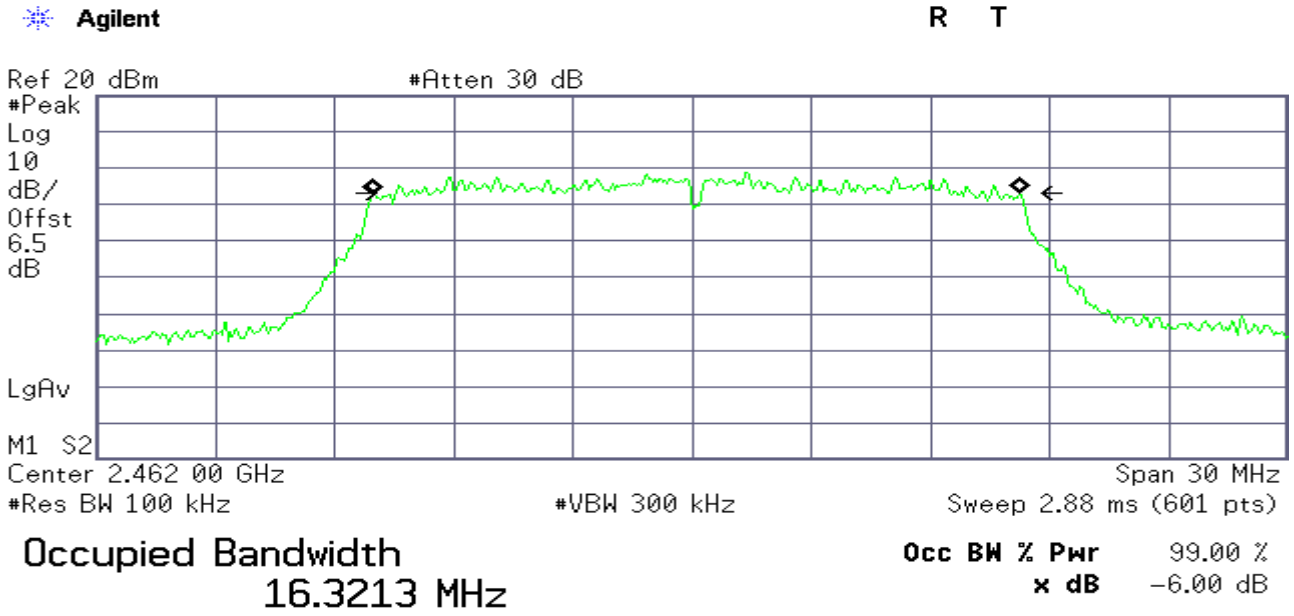
Transmit Freq Error 118.405 kHz
x dB Bandwidth 15.702 MHz

6dB Bandwidth (CH Mid)



Transmit Freq Error 112.621 kHz
x dB Bandwidth 16.070 MHz

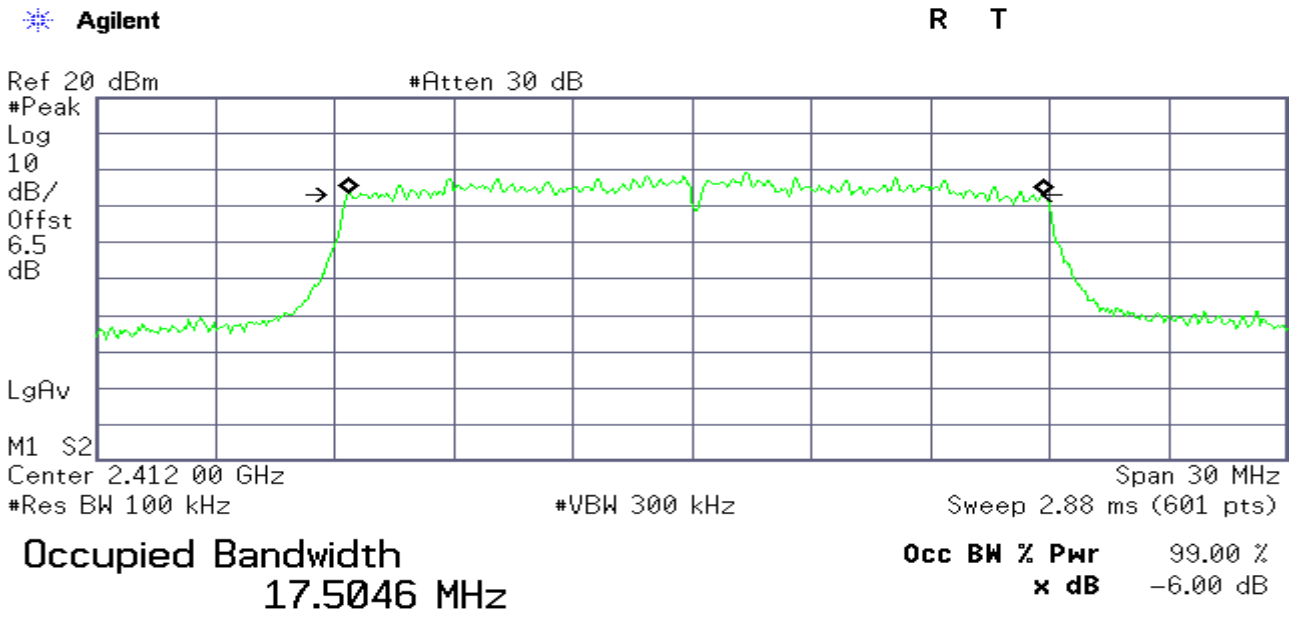
6dB Bandwidth (CH High)



Transmit Freq Error 109.786 kHz
x dB Bandwidth 15.767 MHz

IEEE 802.11n HT20 mode

6dB Bandwidth (CH Low)

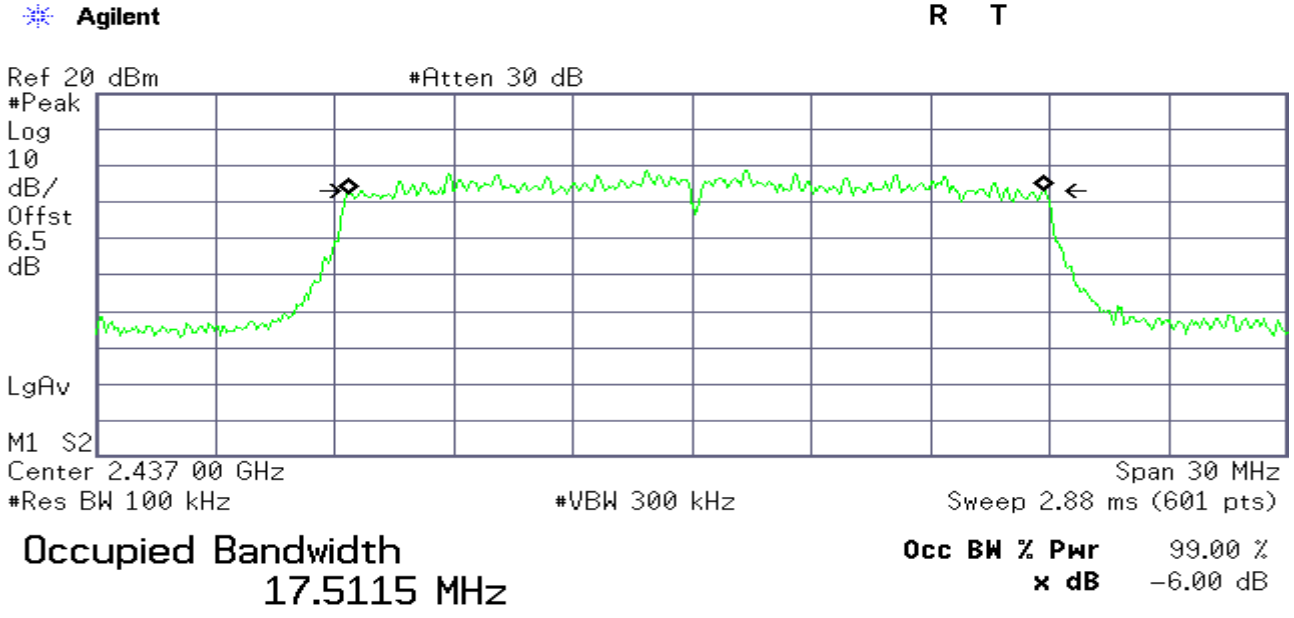


Occupied Bandwidth
17.5046 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 109.330 kHz
x dB Bandwidth 16.994 MHz

6dB Bandwidth (CH Mid)

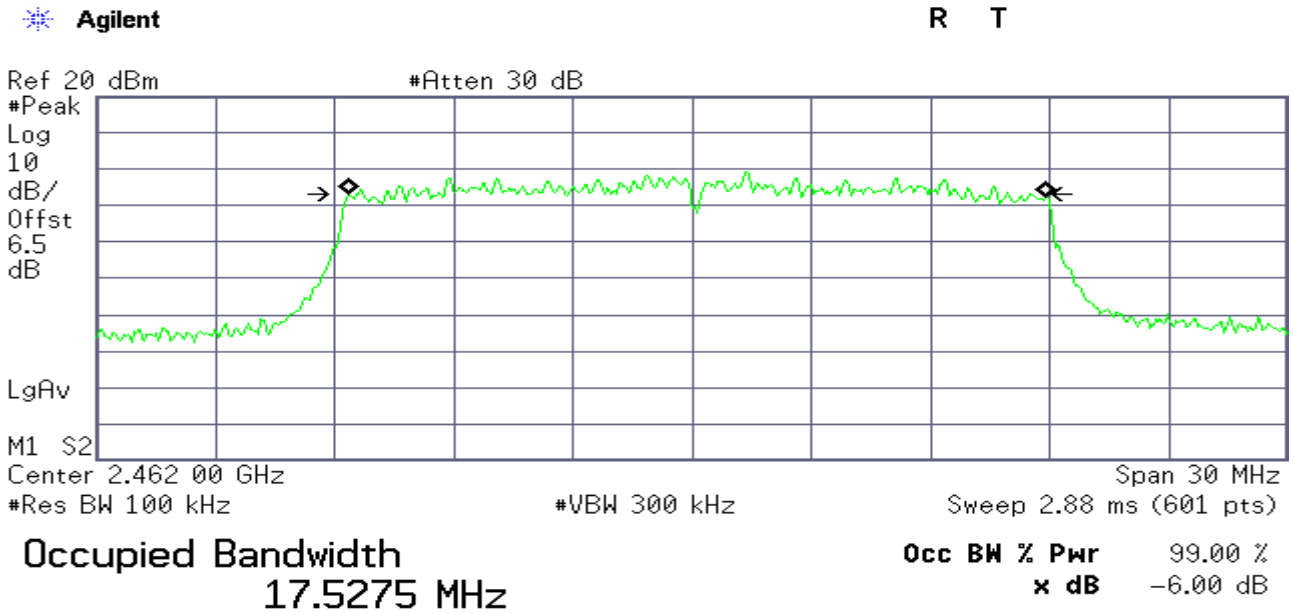


Occupied Bandwidth
17.5115 MHz

Occ BW % Pwr 99.00 %
x dB -6.00 dB

Transmit Freq Error 118.305 kHz
x dB Bandwidth 17.275 MHz

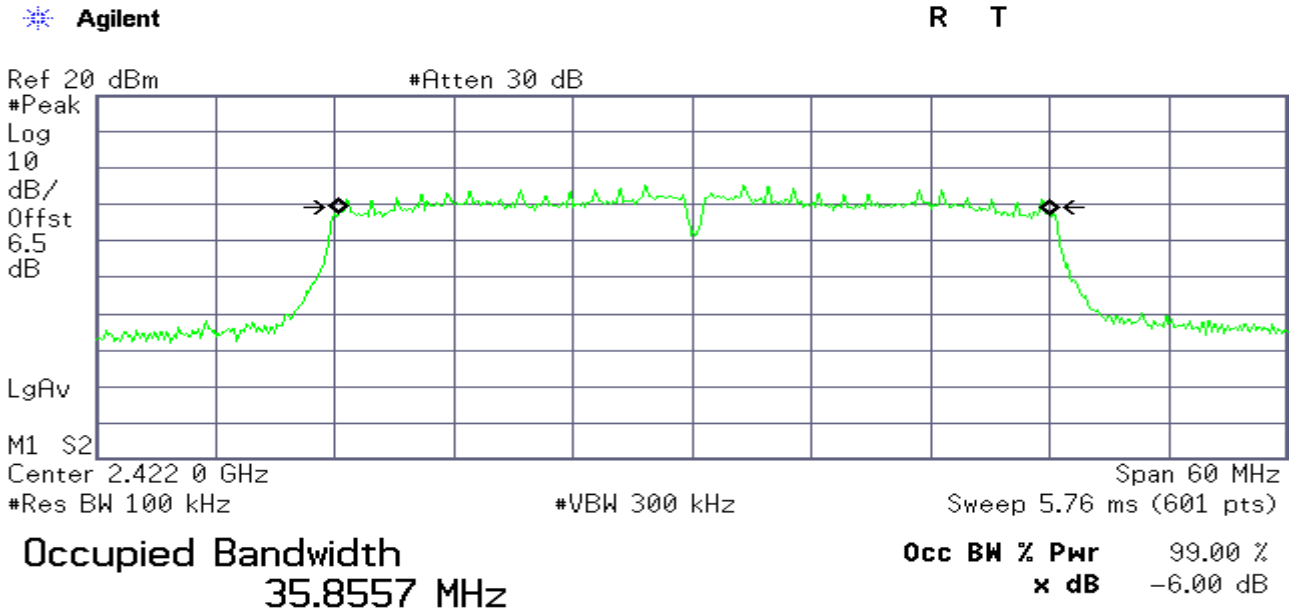
6dB Bandwidth (CH High)



Transmit Freq Error 123.197 kHz
x dB Bandwidth 17.218 MHz

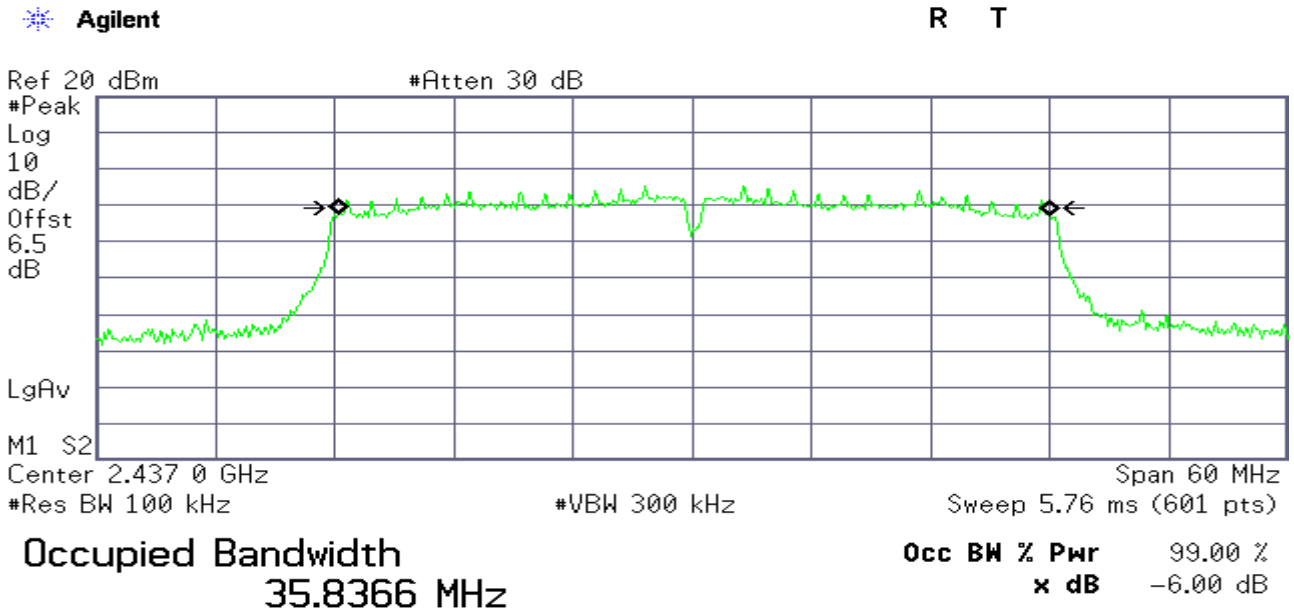
IEEE 802.11n HT40 mode

6dB Bandwidth (CH Low)



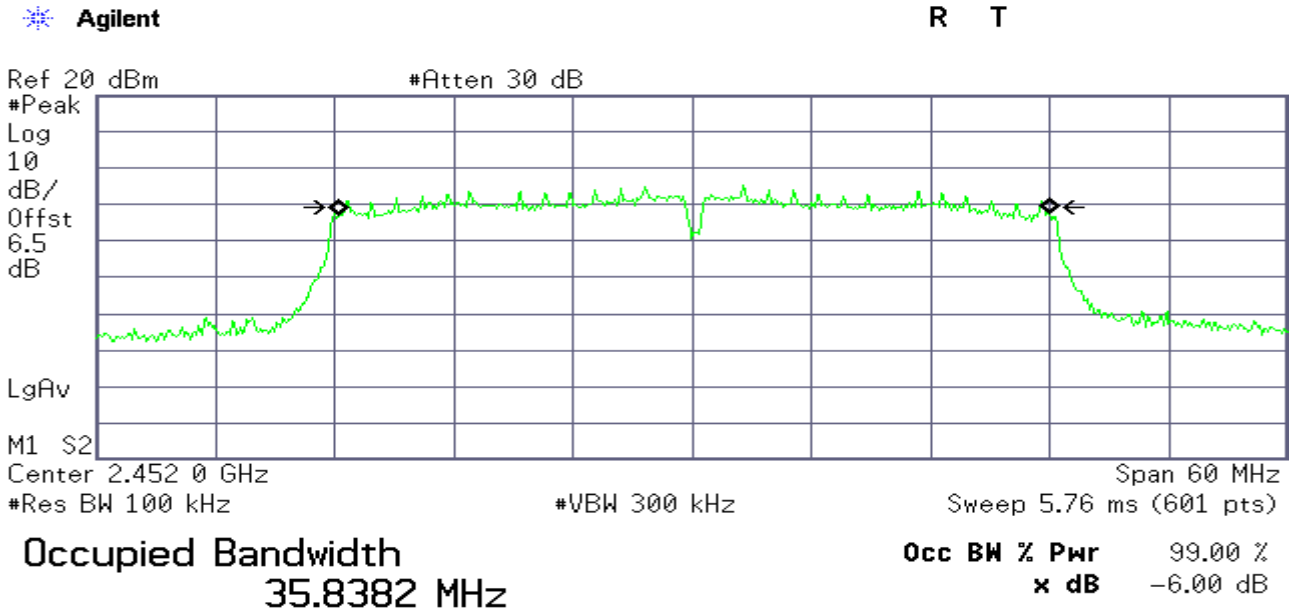
Transmit Freq Error 109.133 kHz
x dB Bandwidth 35.225 MHz

6dB Bandwidth (CH Mid)



Transmit Freq Error 88.071 kHz
x dB Bandwidth 35.217 MHz

6dB Bandwidth (CH High)



Transmit Freq Error 93.368 kHz
x dB Bandwidth 35.213 MHz

7.2.PEAK POWER

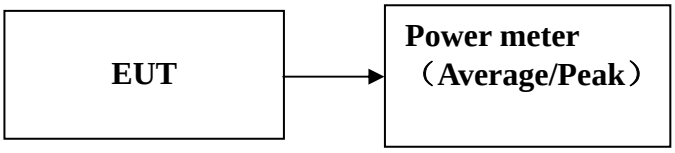
LIMIT

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, and 2400-2483.5 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

1. The EUT transmitter output is connected to the Power meter.
   The Power meter is set to the peak power detection.
2. The testing follows the Measurement Procedure FCC KDB No. 558074 D01 DTS Meas.
3. Guidance v03r05. 9.1.2 PKPM1 Peak power meter method.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	2412	20.35	30.00
Mid	2437	20.41	30.00
High	2462	20.24	30.00

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	2412	17.24	30.00
Mid	2437	17.22	30.00
High	2462	17.13	30.00

Test mode: IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	2412	16.97	30.00
Mid	2437	16.96	30.00
High	2462	16.73	30.00

Test mode: IEEE 802.11n HT40 mode

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)
Low	2422	16.51	30.00
Mid	2437	16.47	30.00
High	2452	16.38	30.00

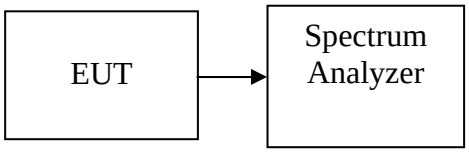
7.3.PEAK POWER SPECTRAL DENSITY

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 = 3 kHz, VBW = 10 kHz, Span = 1.5 times the DTS bandwidth, Sweep = auto

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	-5.40	8.00	PASS
Mid	2437	-3.46	8.00	PASS
High	2462	-5.22	8.00	PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-15.90	8.00	PASS
Mid	2437	-15.33	8.00	PASS
High	2462	-16.04	8.00	PASS

Test mode: IEEE 802.11n HT20 mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-16.64	8.00	PASS
Mid	2437	-16.39	8.00	PASS
High	2462	-17.73	8.00	PASS

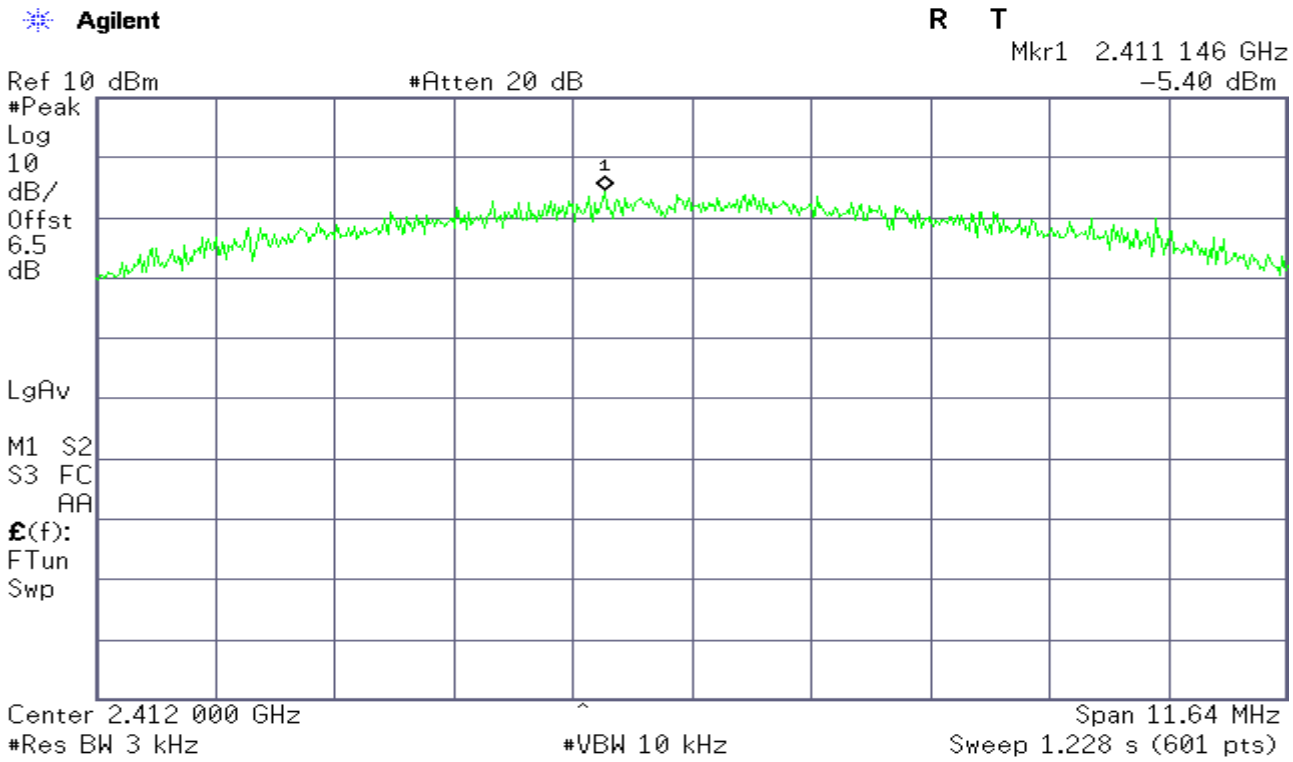
Test mode: IEEE 802.11n HT40 mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2422	-17.90	8.00	PASS
Mid	2437	-19.38	8.00	PASS
High	2452	-19.38	8.00	PASS

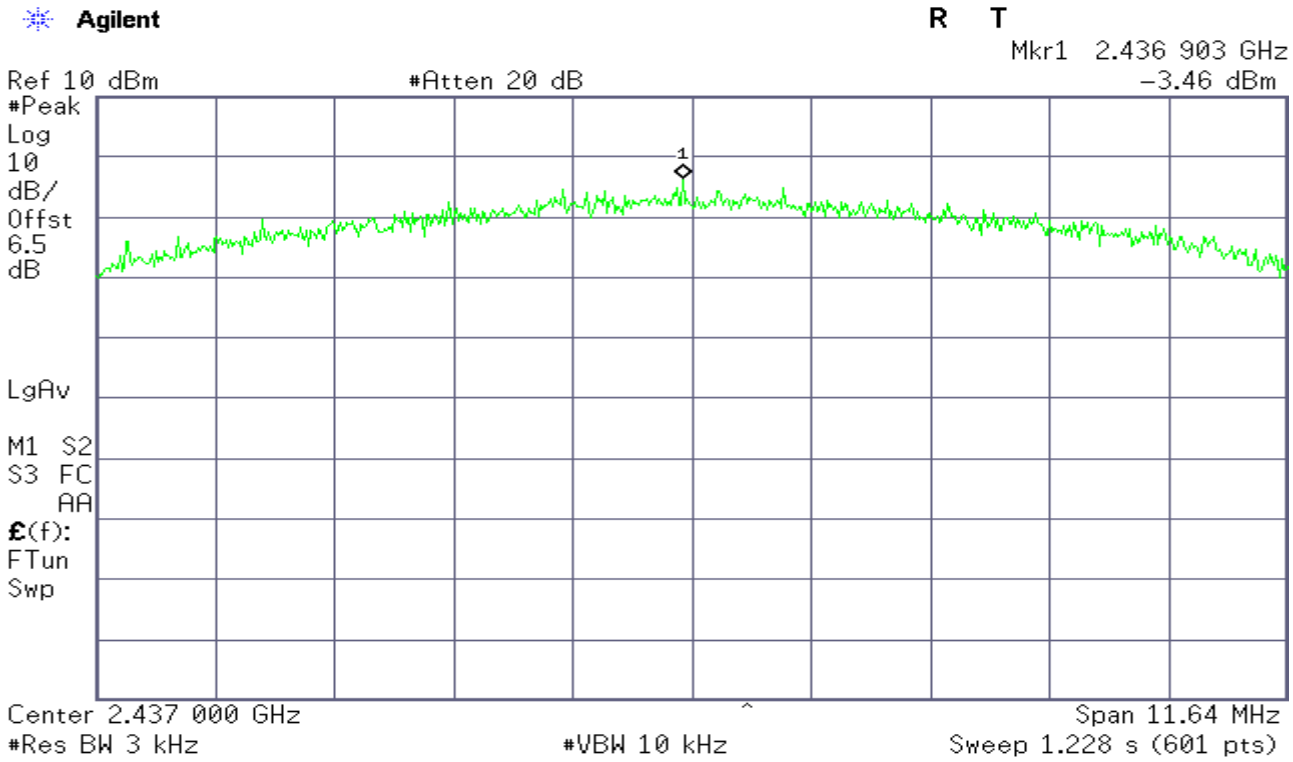
Test Plot

IEEE 802.11b mode

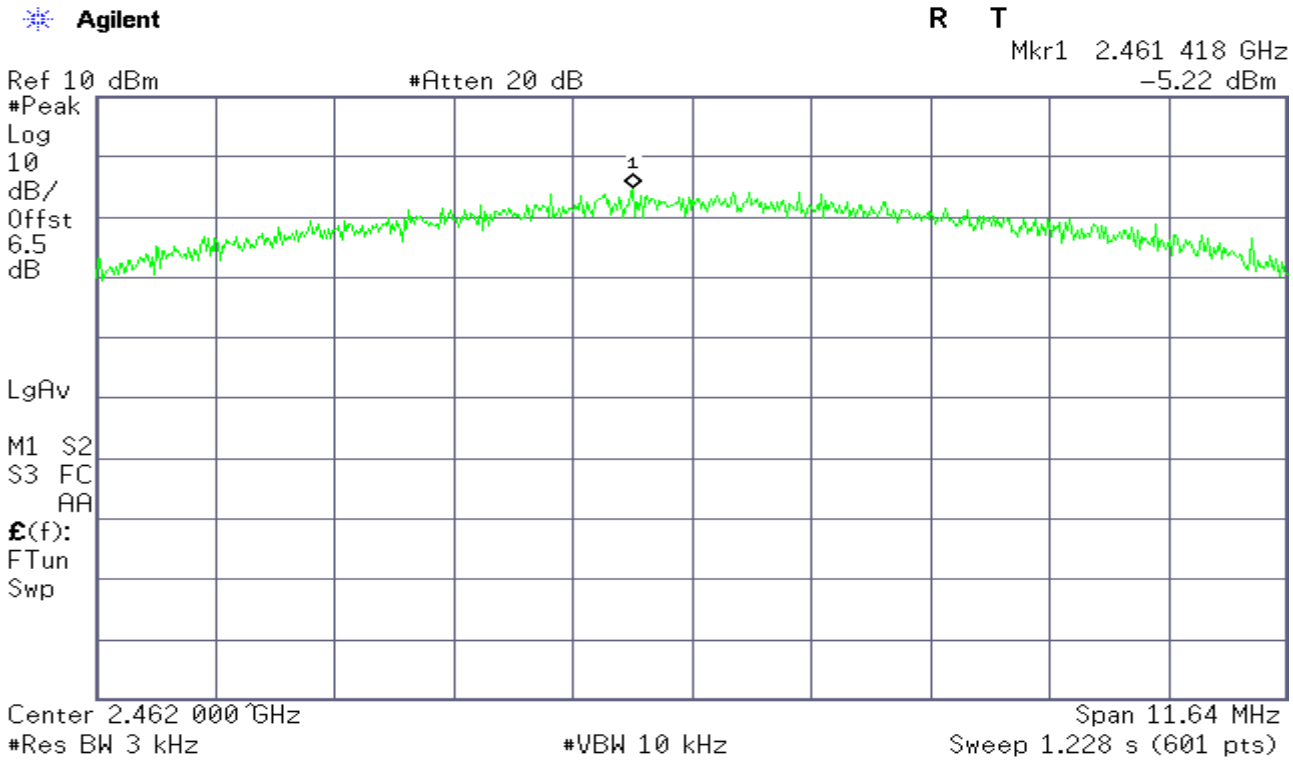
PPSD (CH Low)



PPSD(CH Mid)

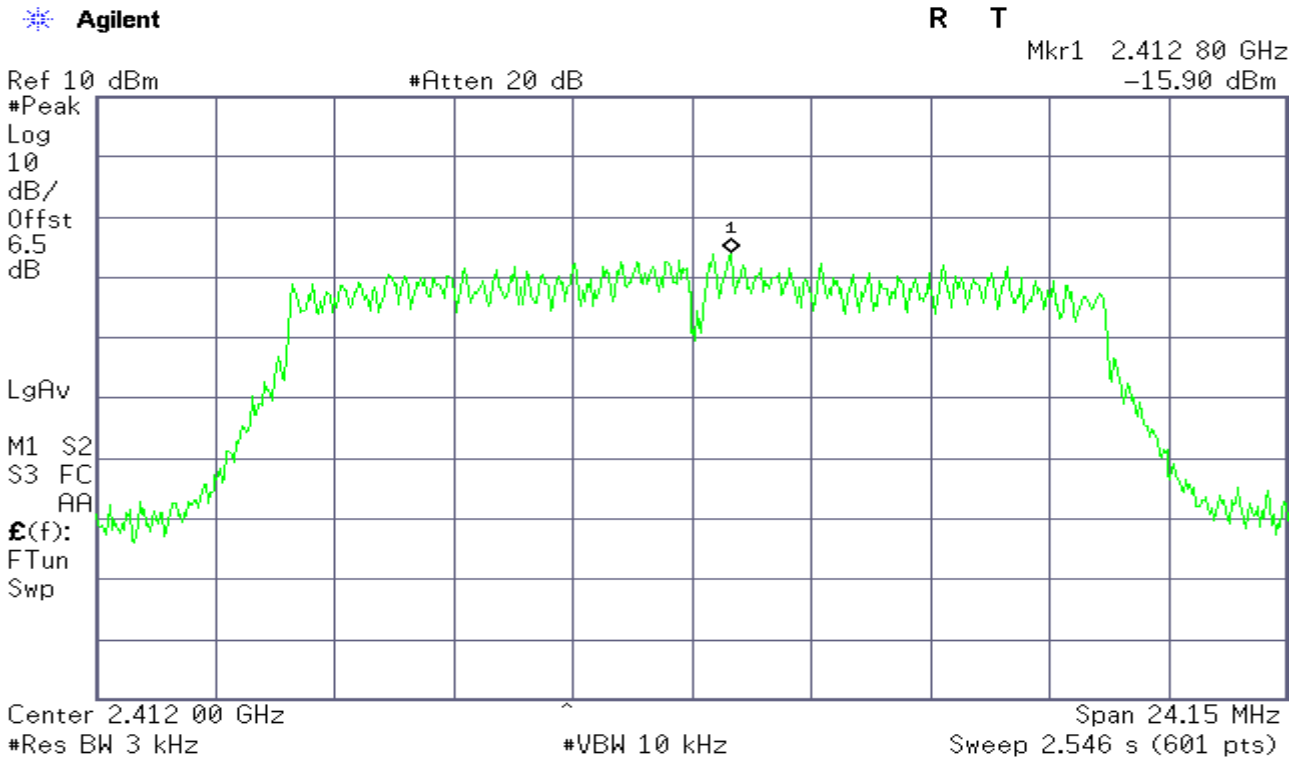


PPSD (CH High)

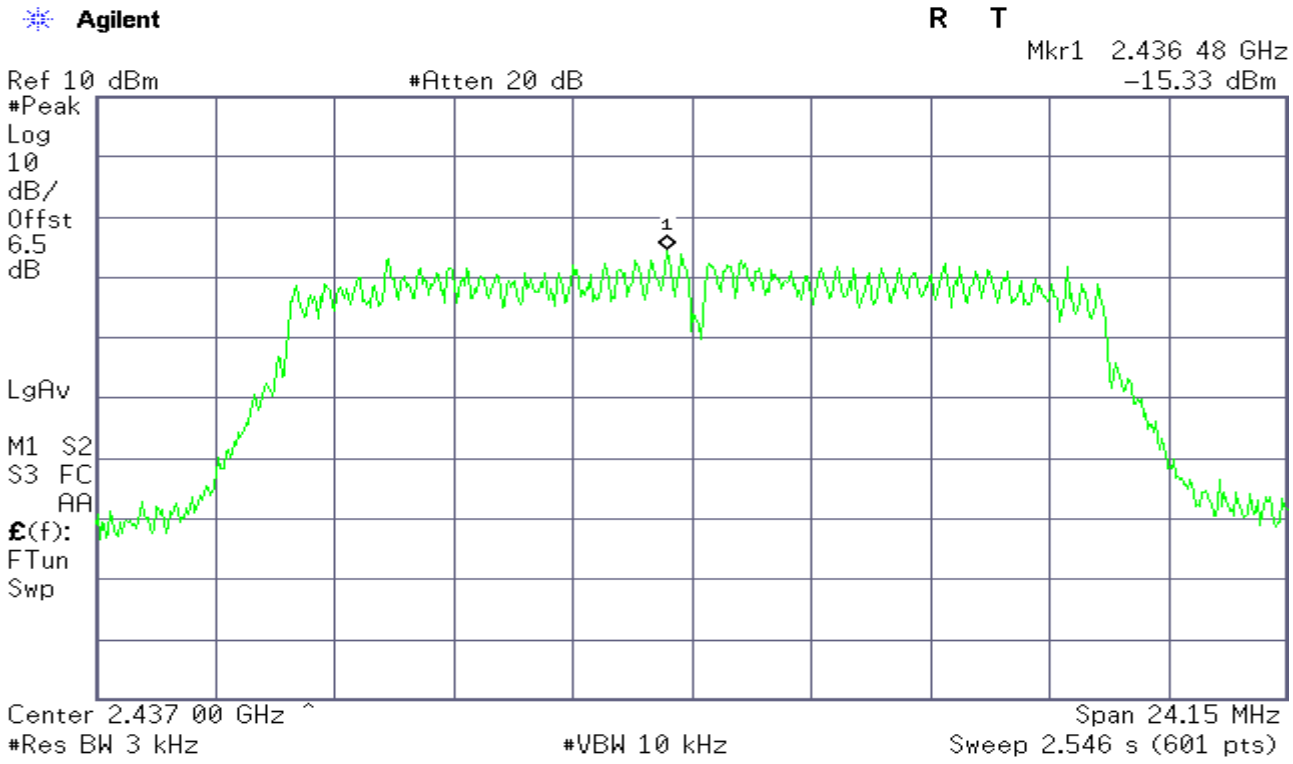


IEEE 802.11g mode

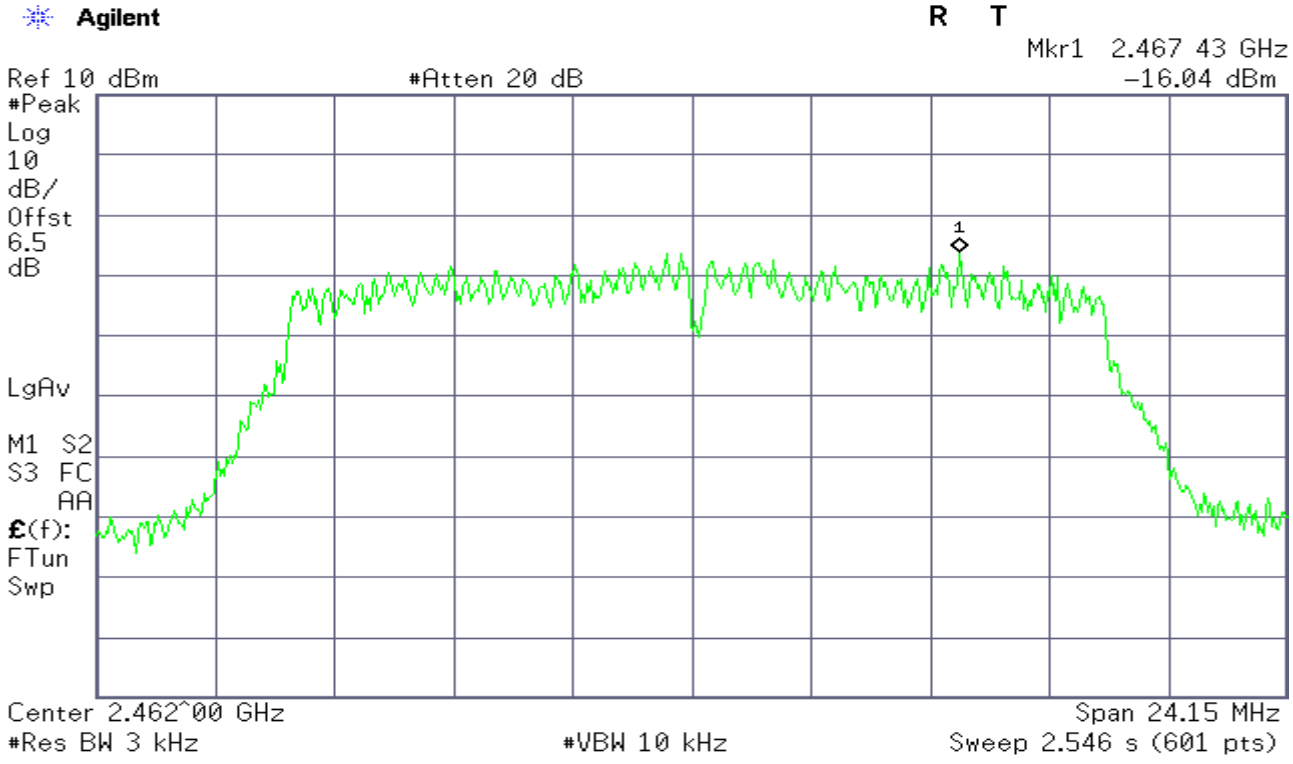
PPSD (CH Low)



PPSD (CH Mid)

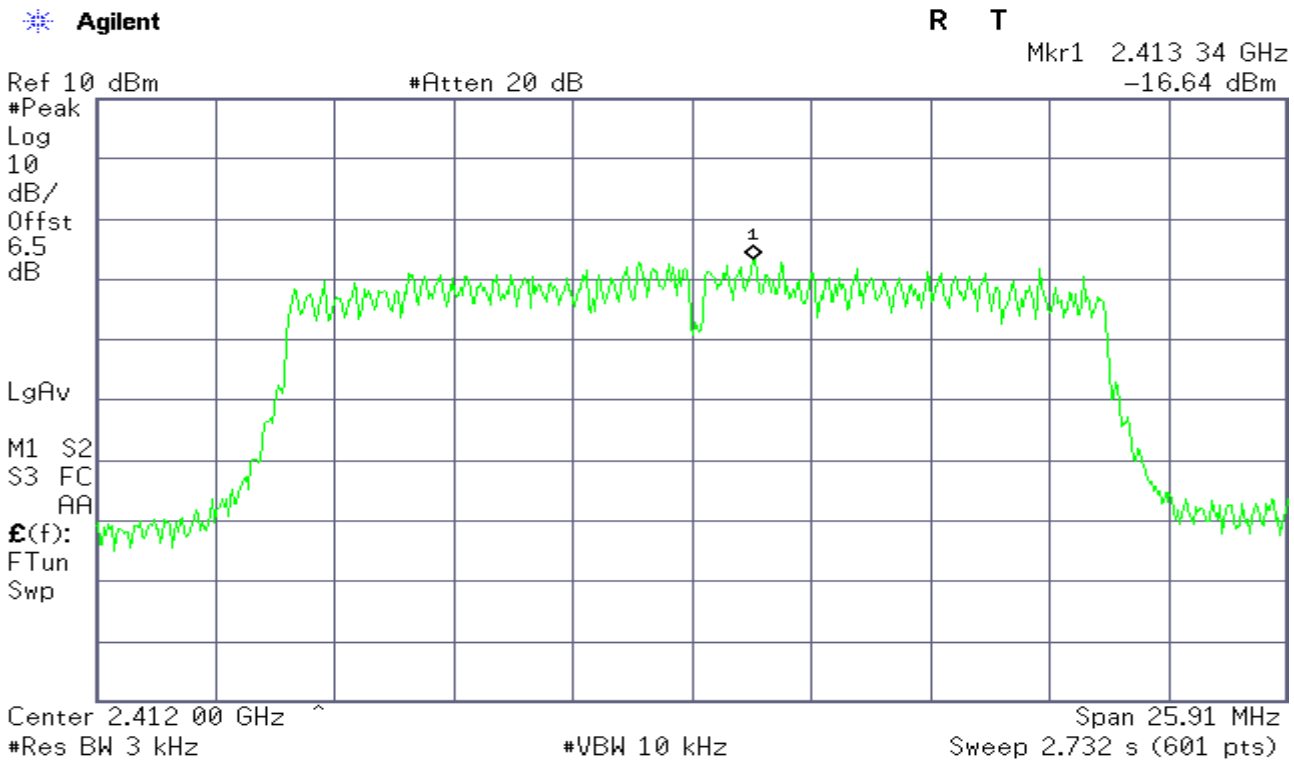


PPSD (CH High)

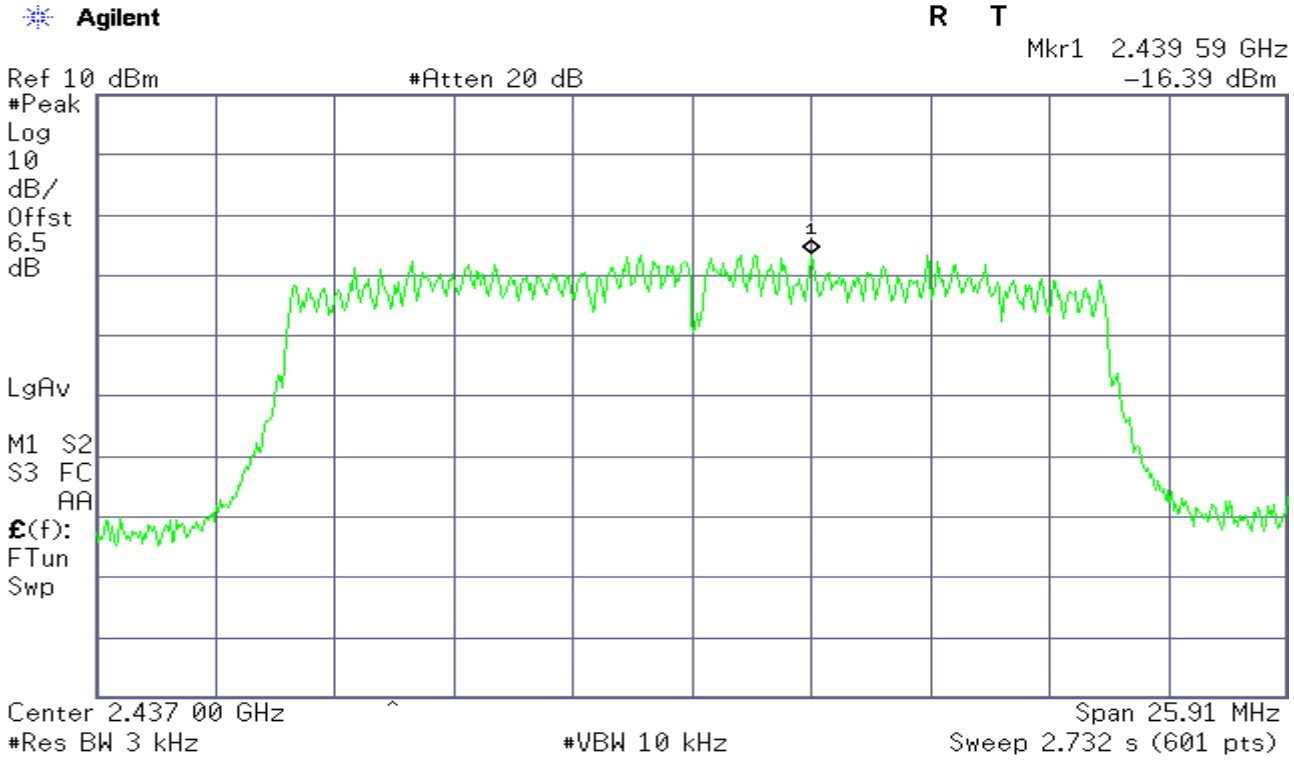


IEEE 802.11n HT20 mode

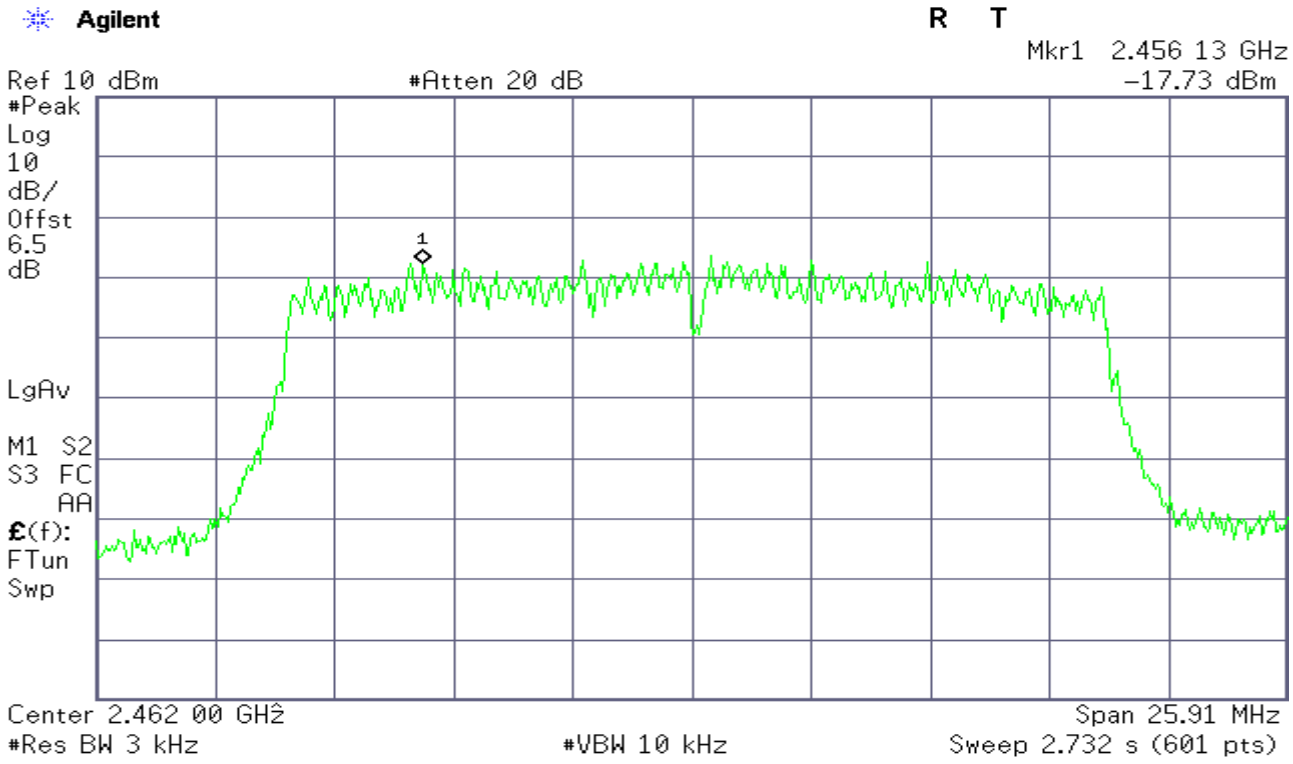
PPSD (CH Low)



PPSD (CH Mid)

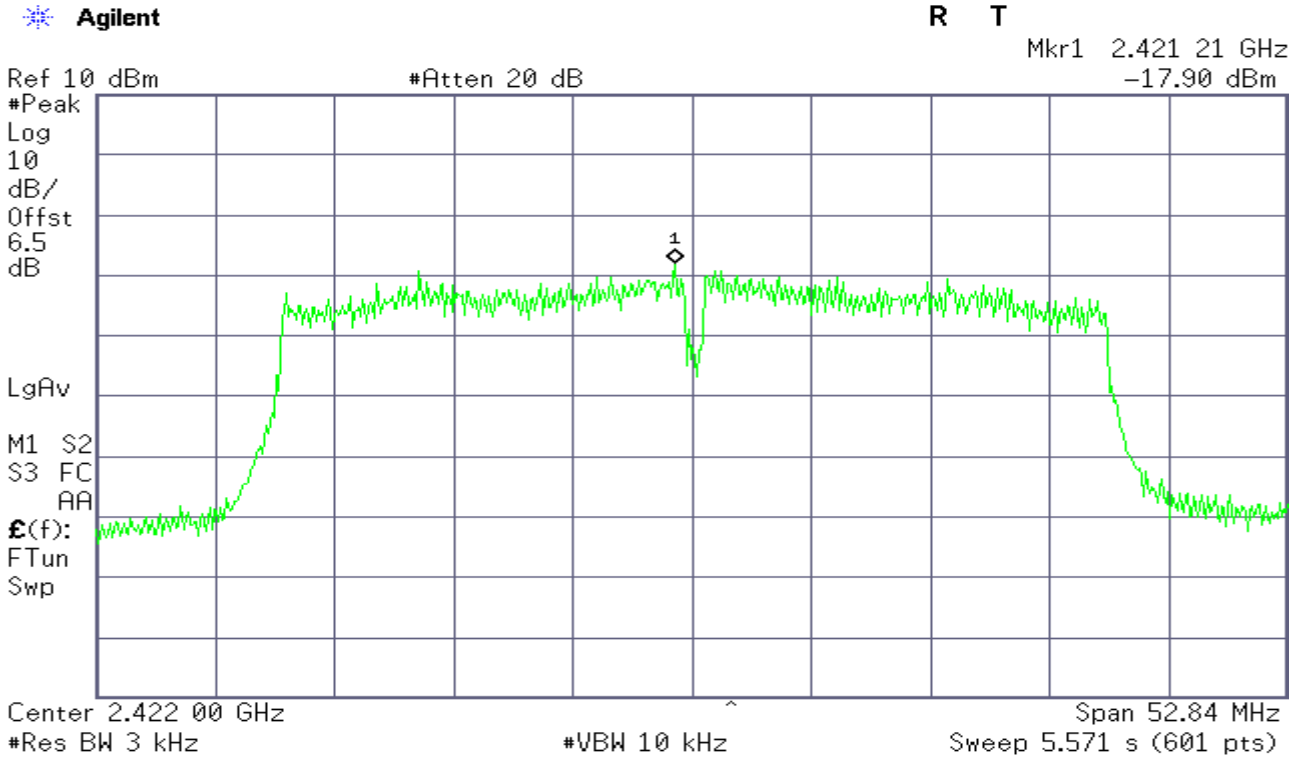


PPSD (CH High)

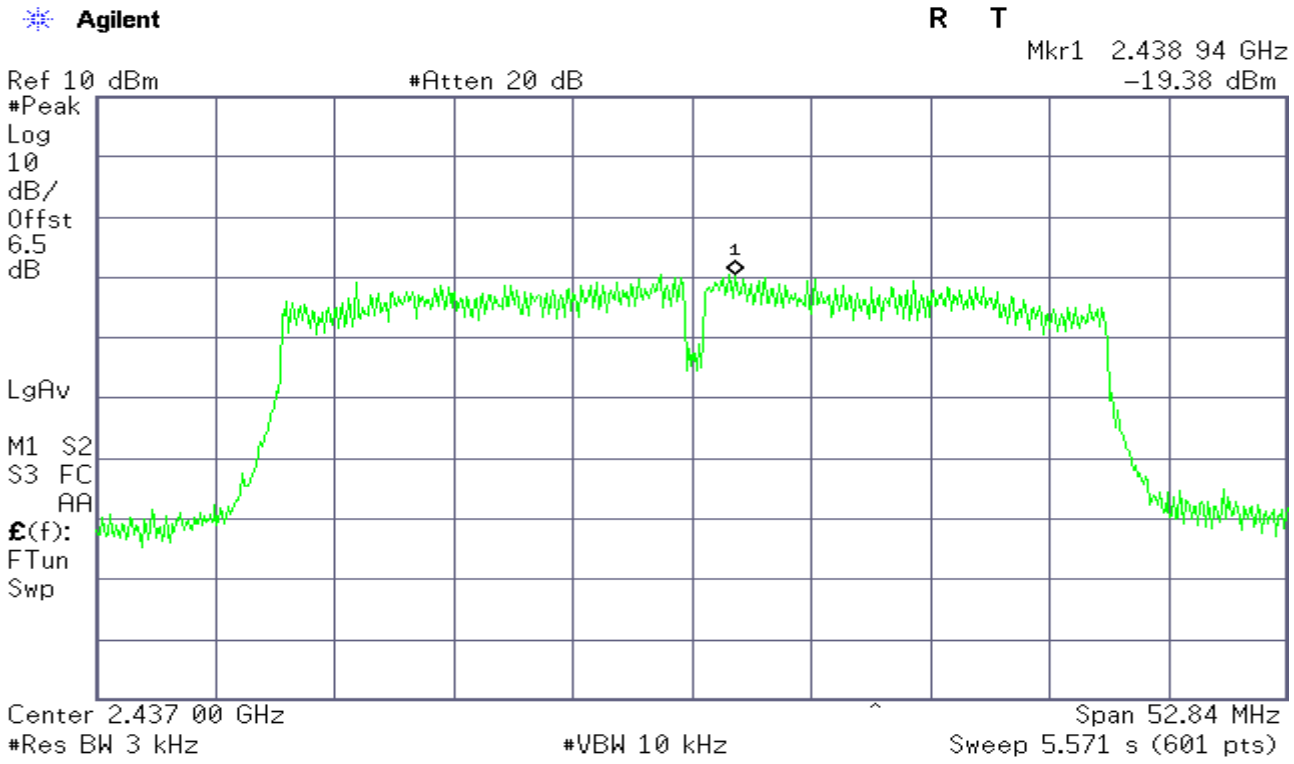


IEEE 802.11n HT40 mode

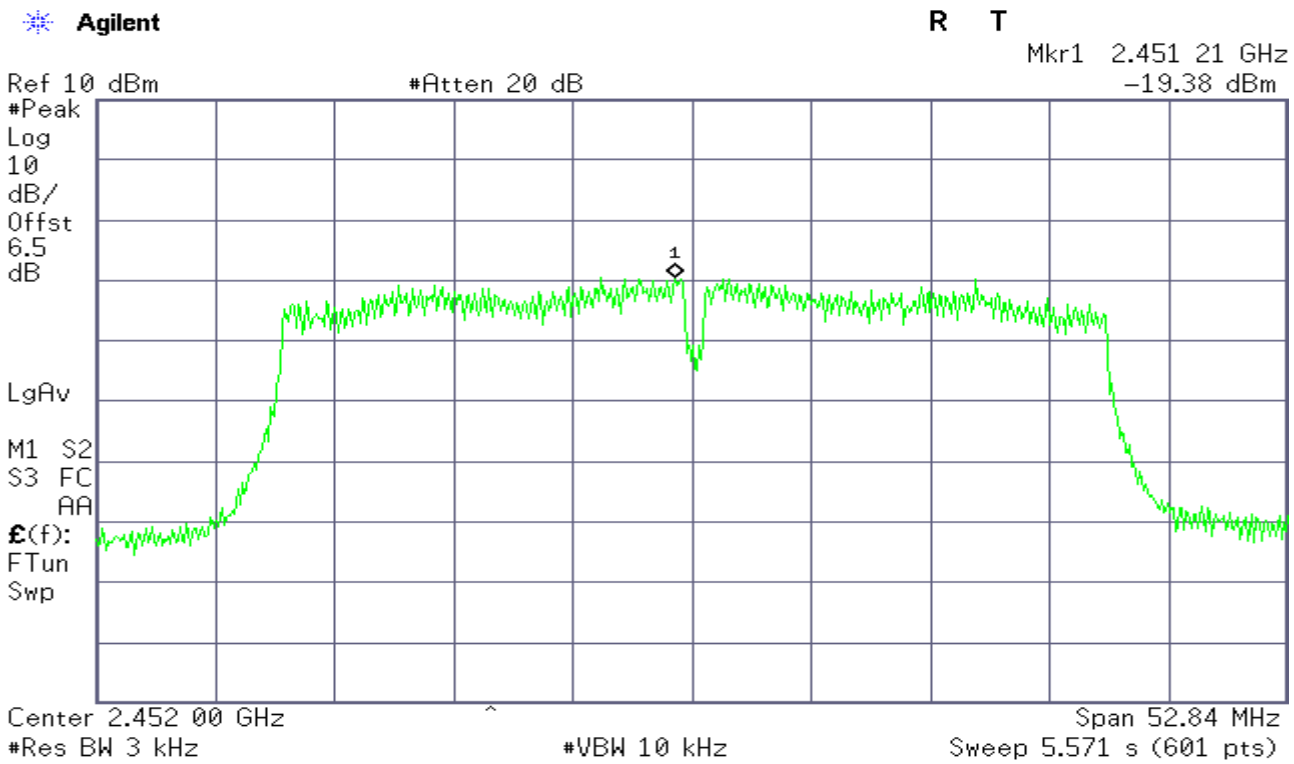
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)



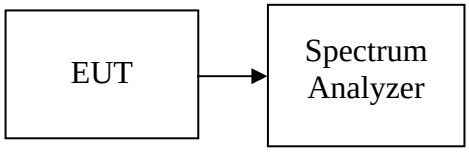
7.4.SPURIOUS EMISSIONS

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 40GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

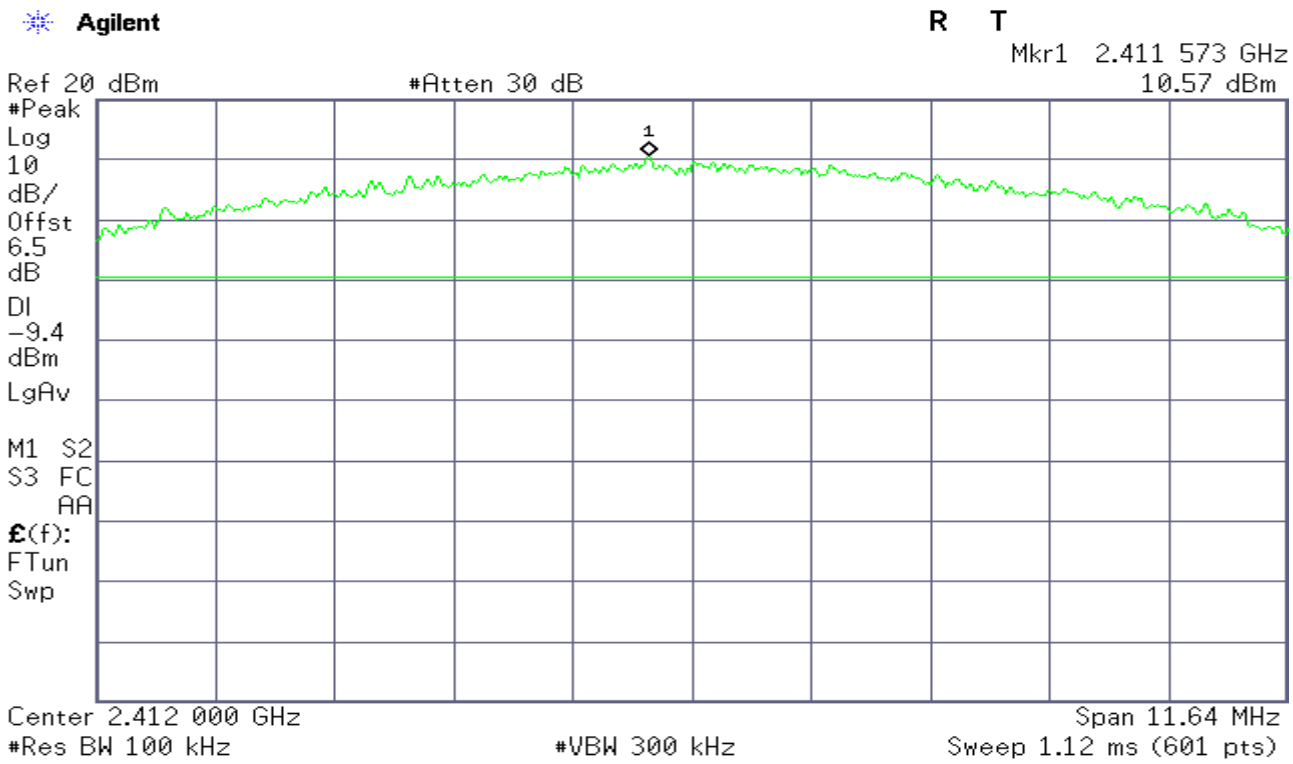
No non-compliance noted

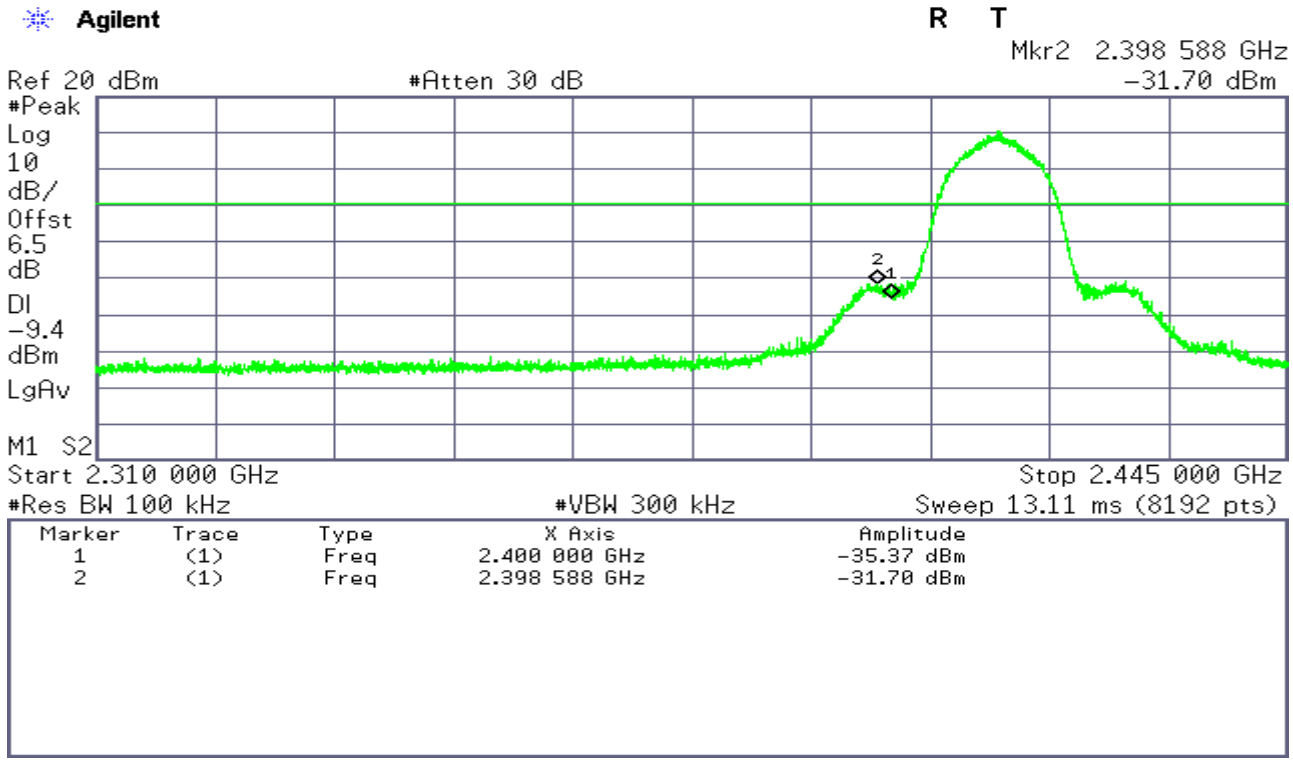
Test Plot

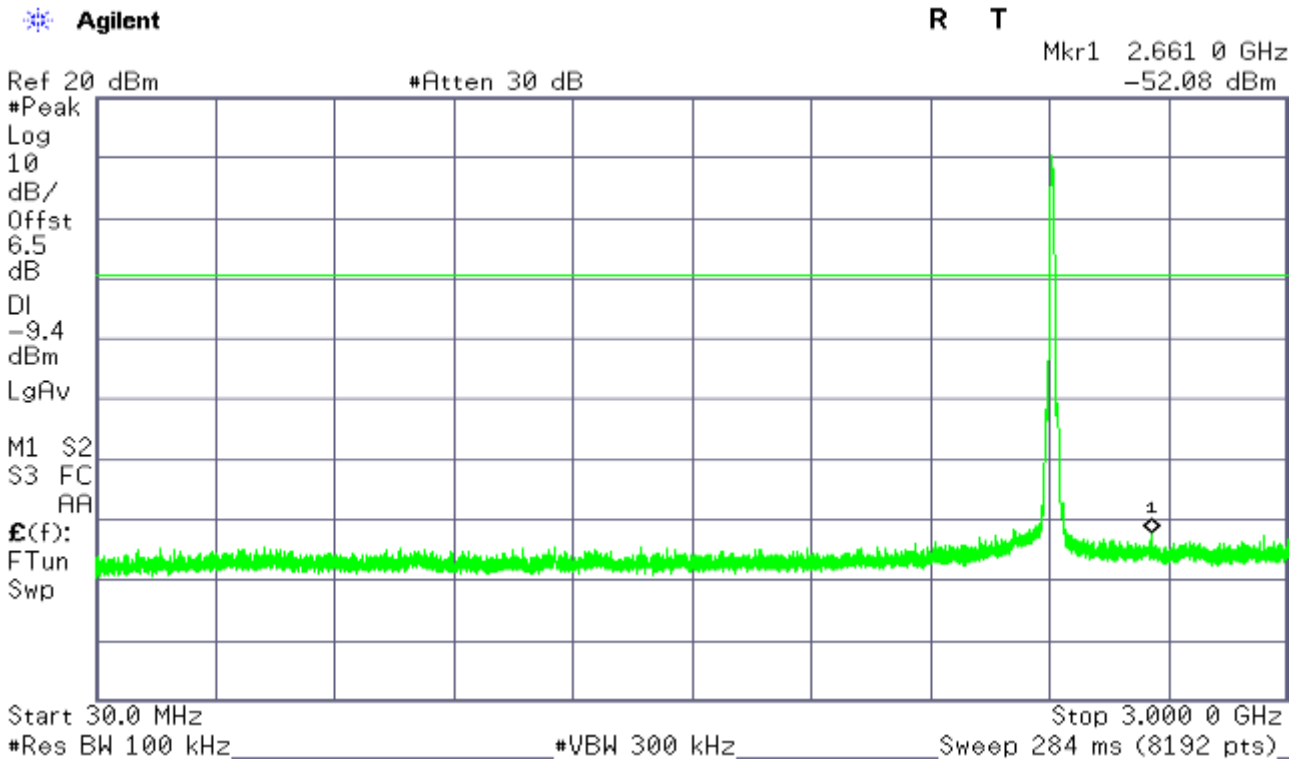
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

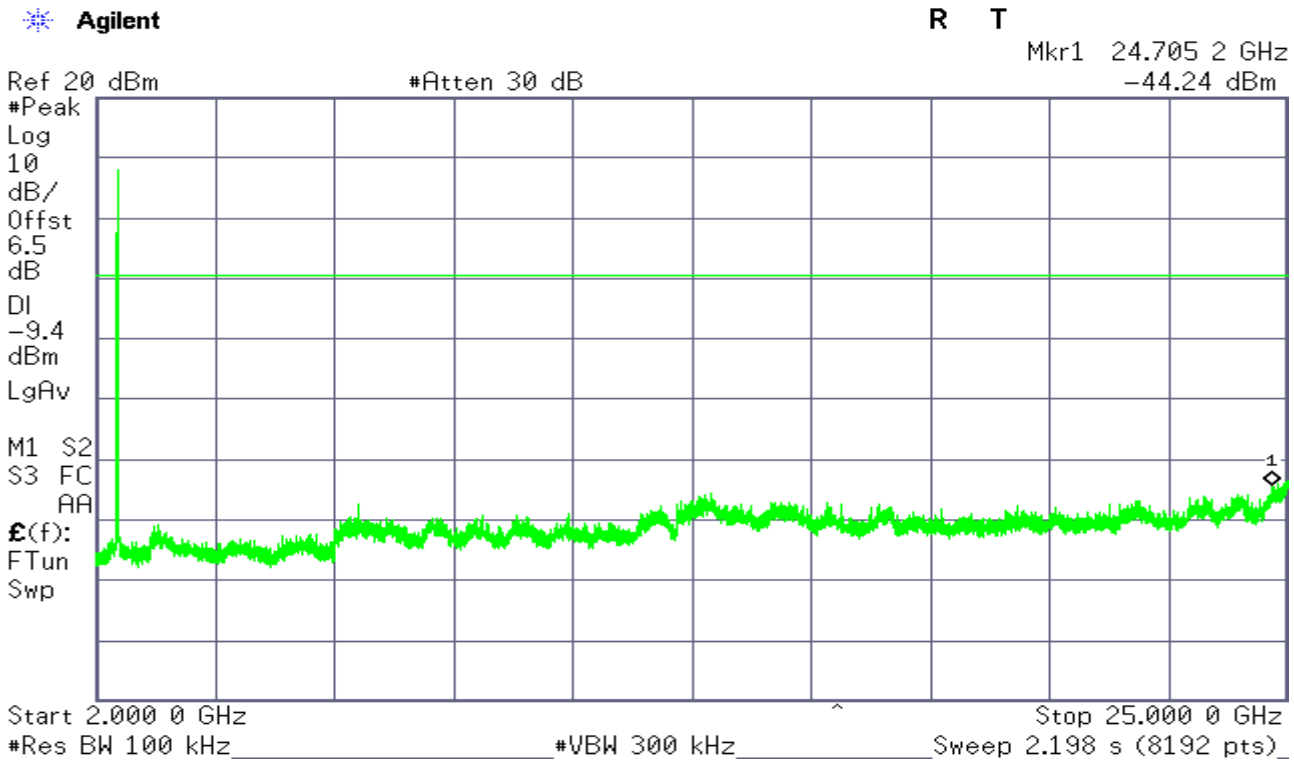
IEEE 802.11b mode

CH Low

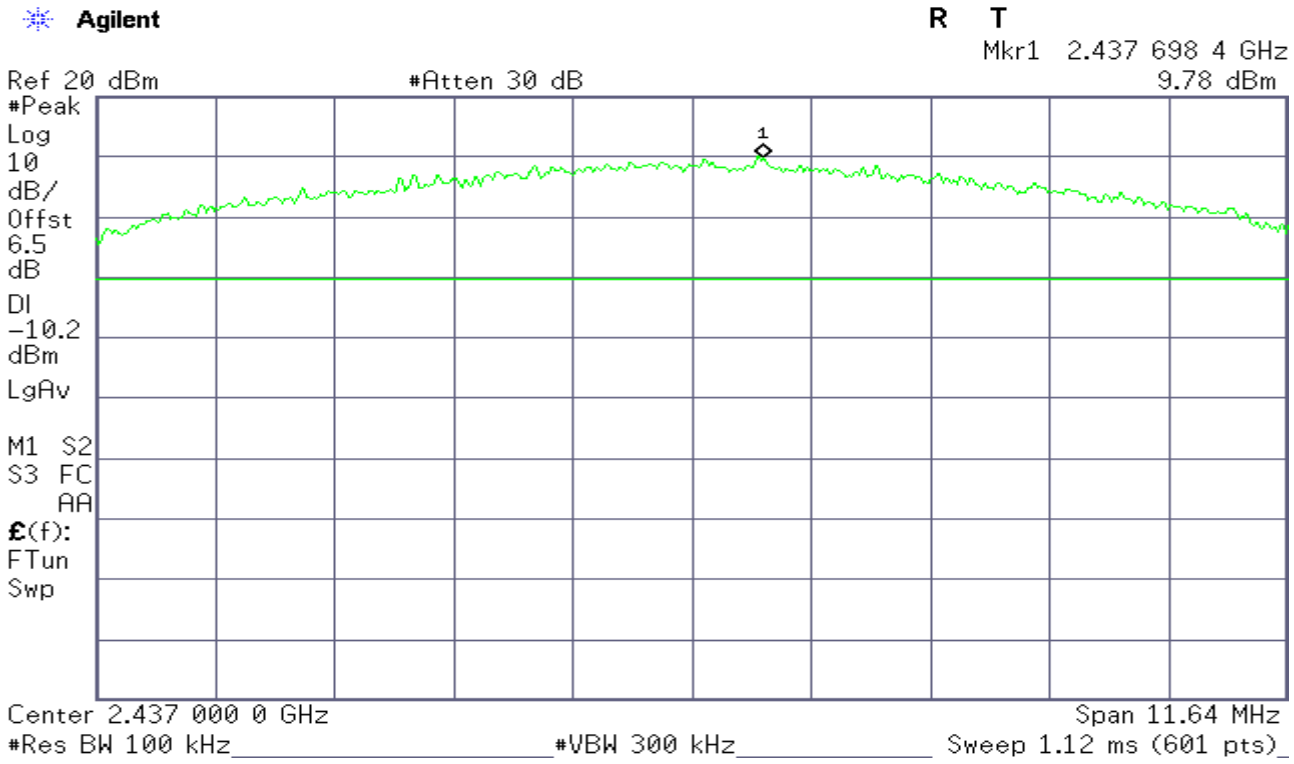


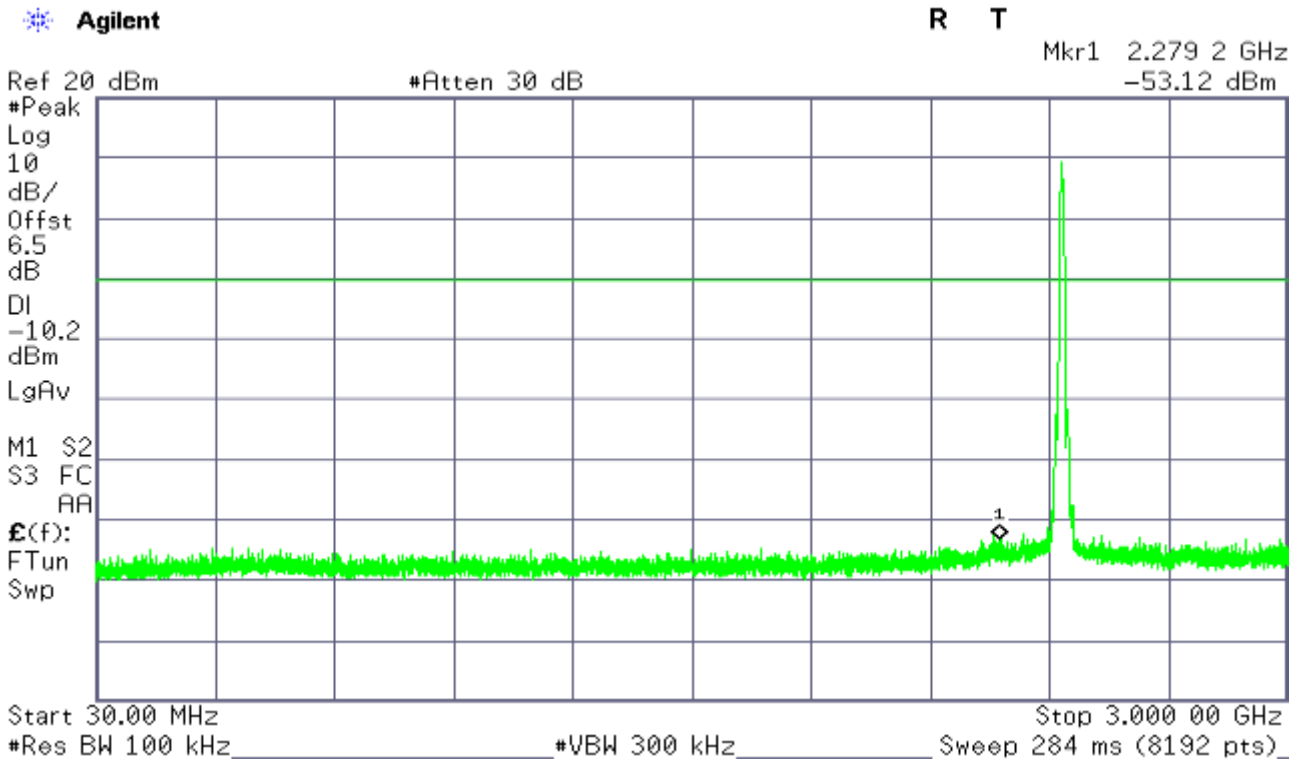


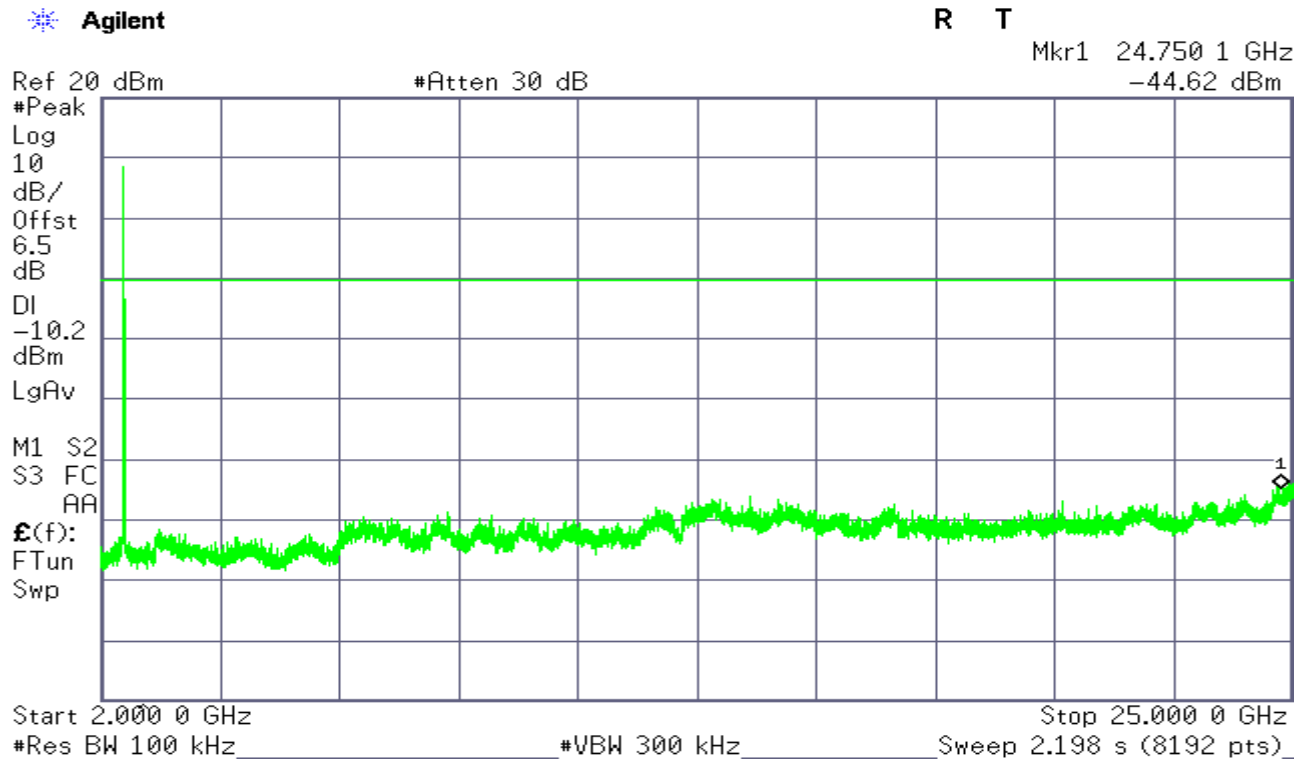

Agilent
R T
Mkr1 2.661 0 GHz
-52.08 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-9.4
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)


Agilent
R T
Mkr1 24.705 2 GHz
-44.24 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-9.4
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

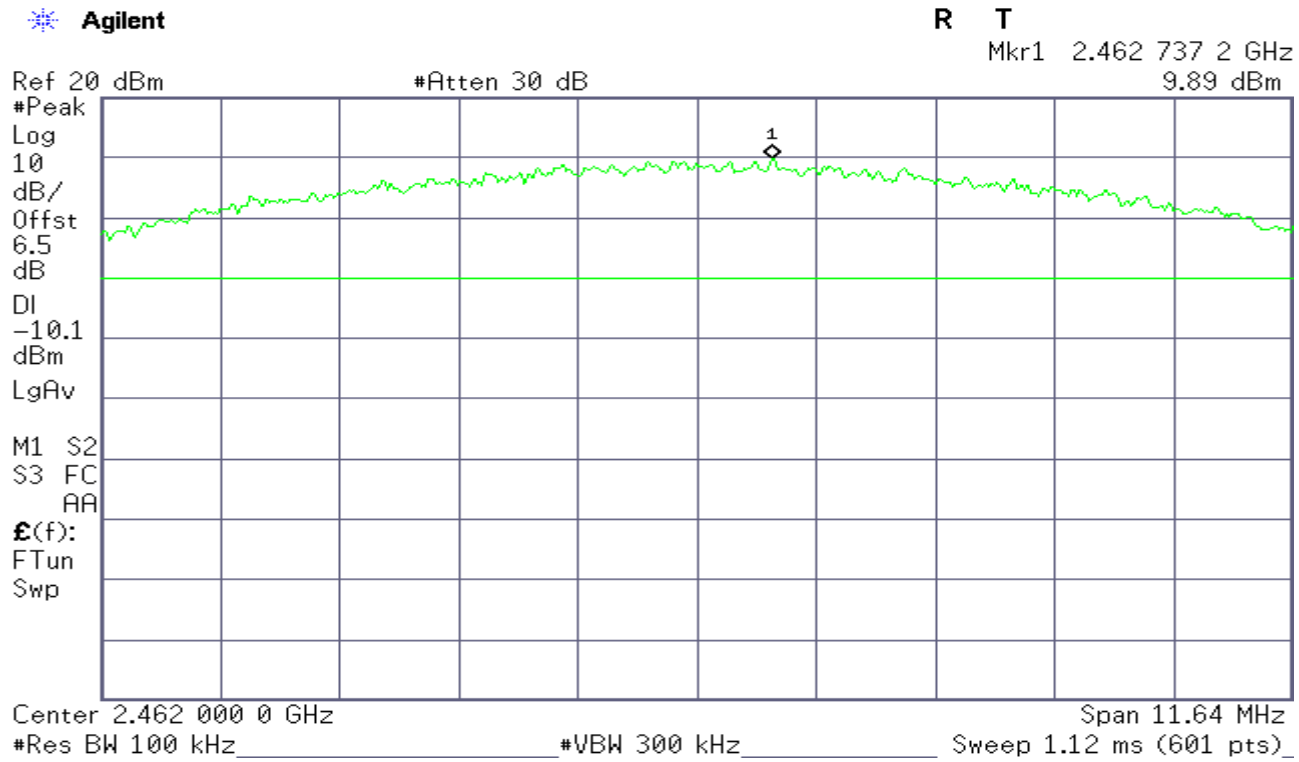
CH Mid

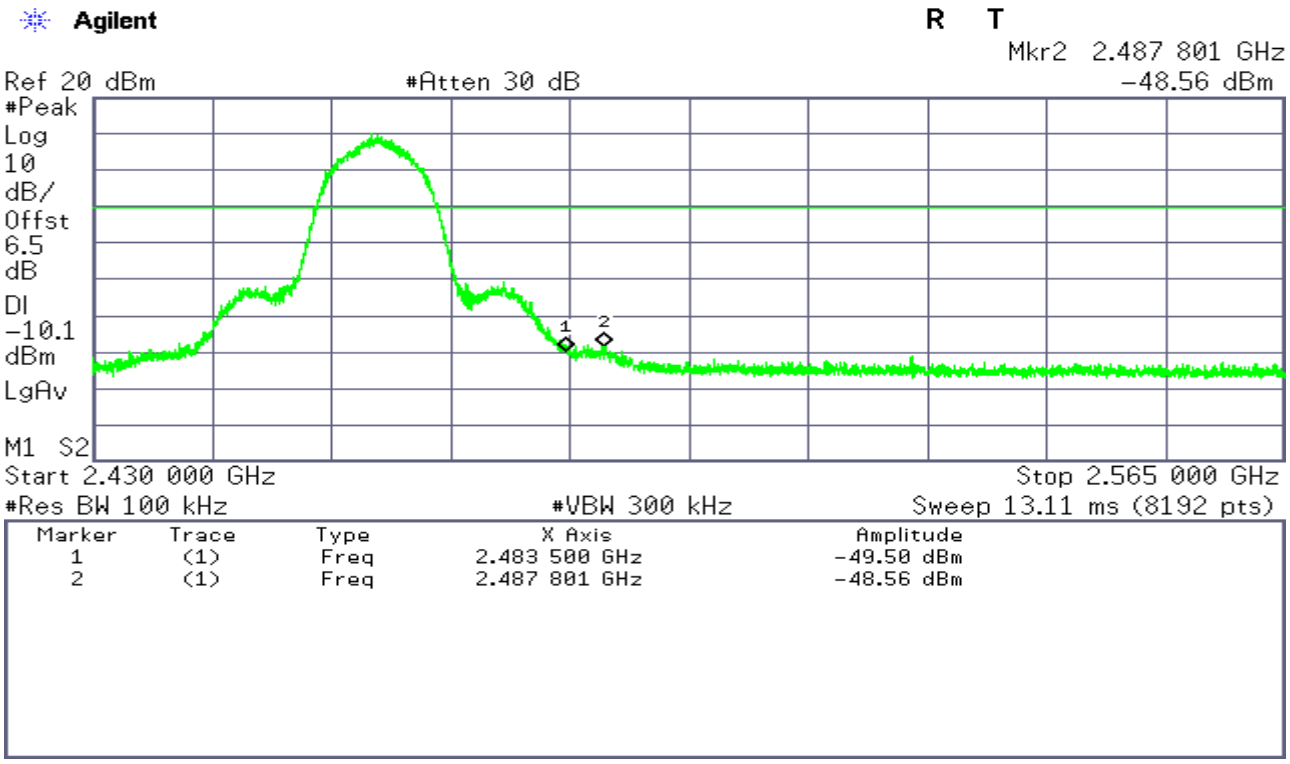

Agilent
R T
Mkr1 2.437 698 4 GHz
9.78 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.2
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.437 000 0 GHz
Span 11.64 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.12 ms (601 pts)

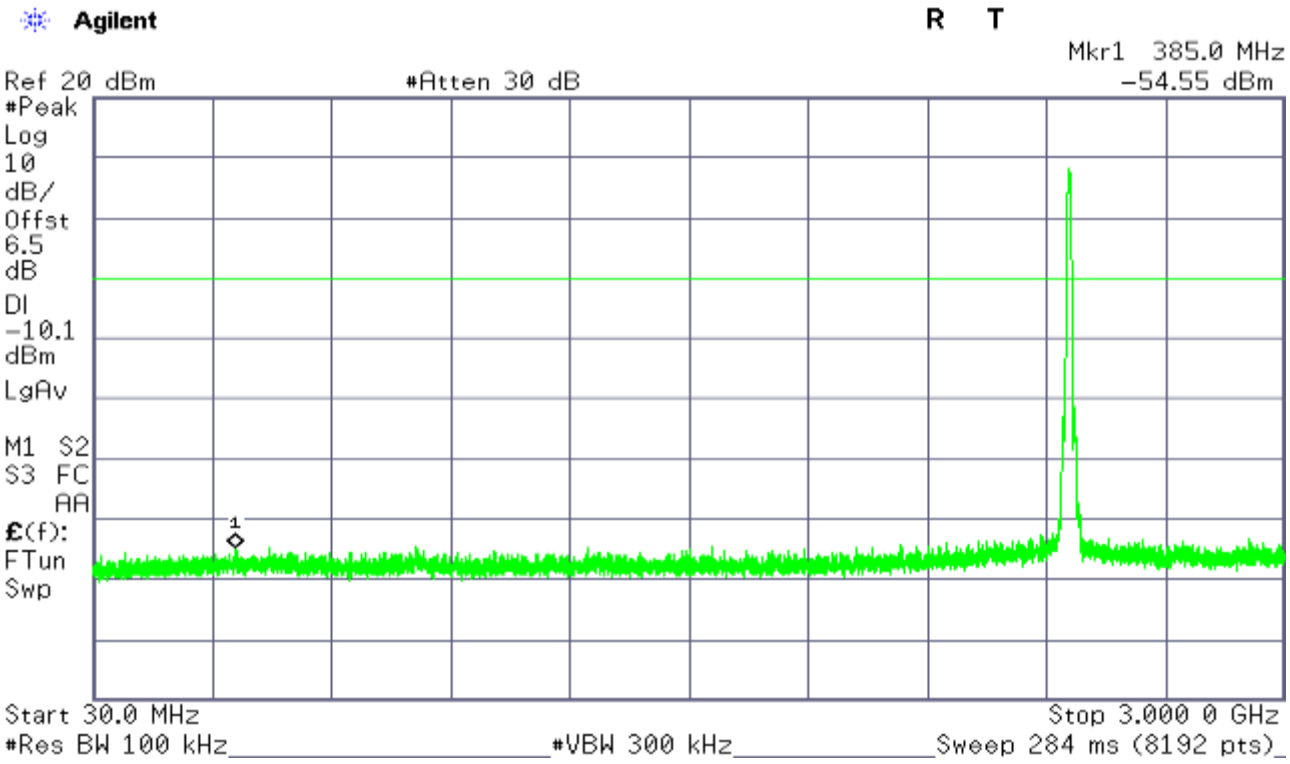

Agilent
R T
Mkr1 2.279 2 GHz
-53.12 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.2
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.00 MHz
Stop 3.000 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

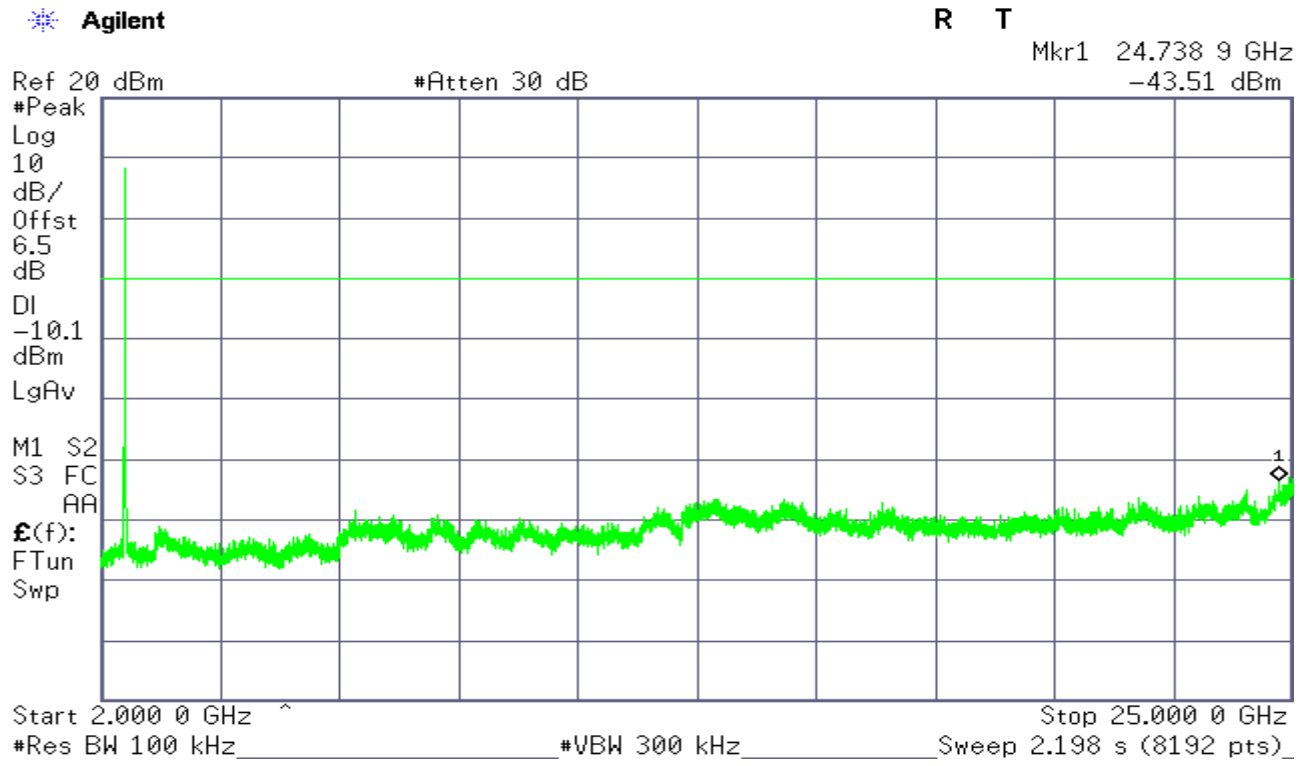

Agilent
R T
Mkr1 24.750 1 GHz
-44.62 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.2
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

CH High


Agilent
R T
Mkr1 2.462 737 2 GHz
9.89 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.1
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.462 000 0 GHz
Span 11.64 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.12 ms (601 pts)

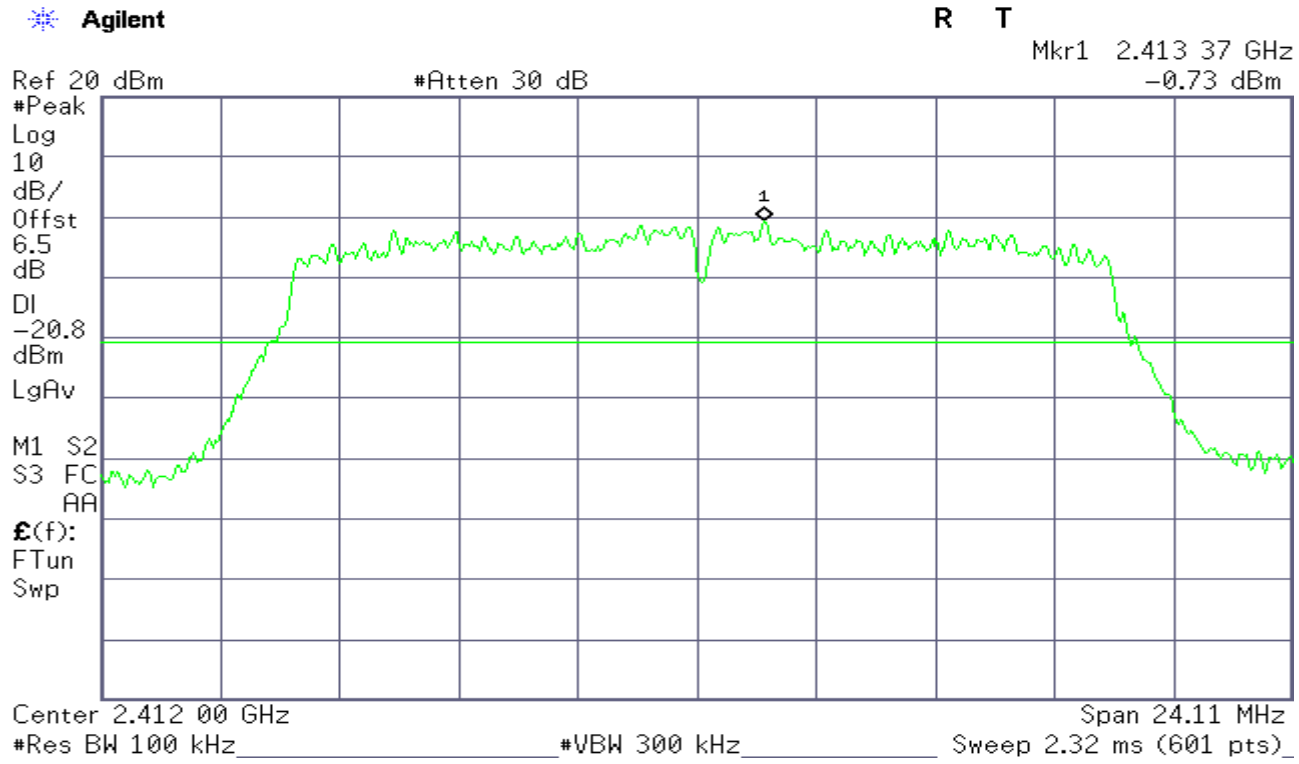

Agilent
R T
Mkr2 2.487 801 GHz
-48.56 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.1
dBm
LgAv
M1 S2
Start 2.430 000 GHz
Stop 2.565 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.483 500 GHz -49.50 dBm
2 (1) Freq 2.487 801 GHz -48.56 dBm

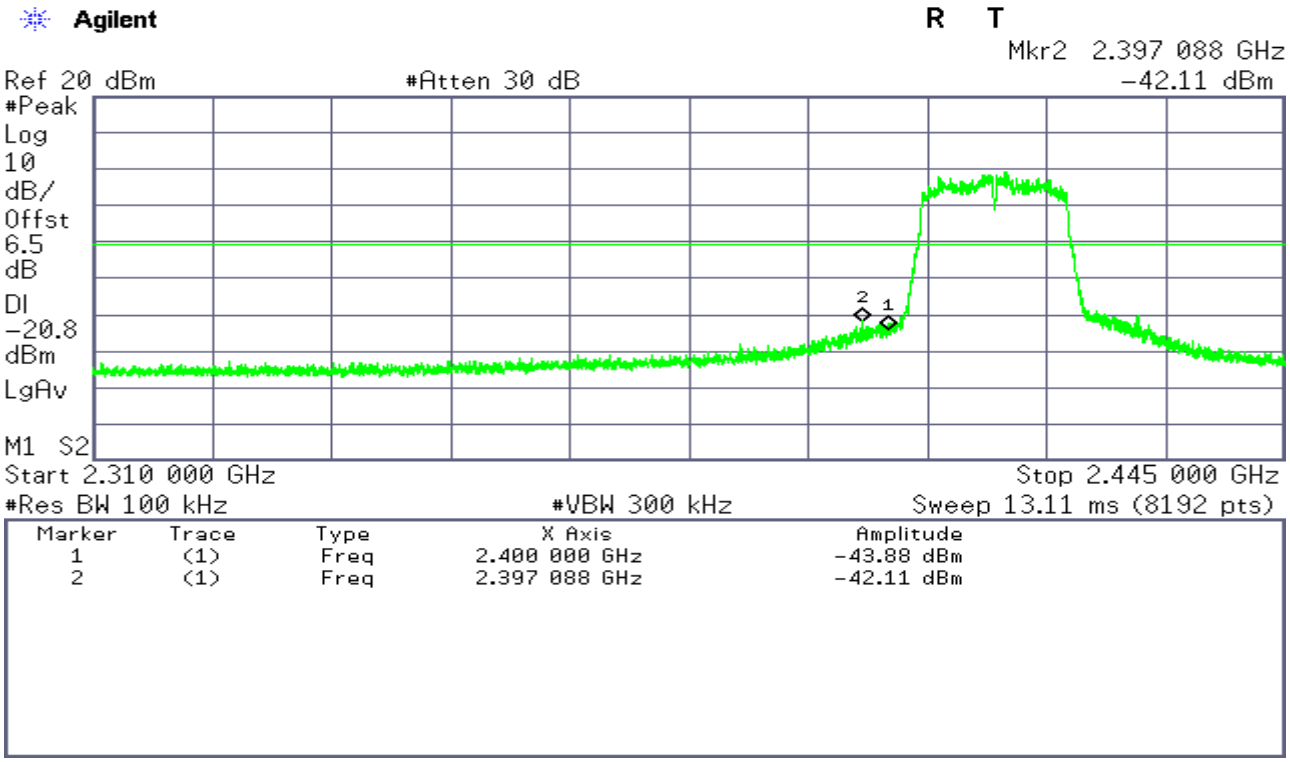

Agilent
R T
Mkr1 385.0 MHz
-54.55 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-10.1
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

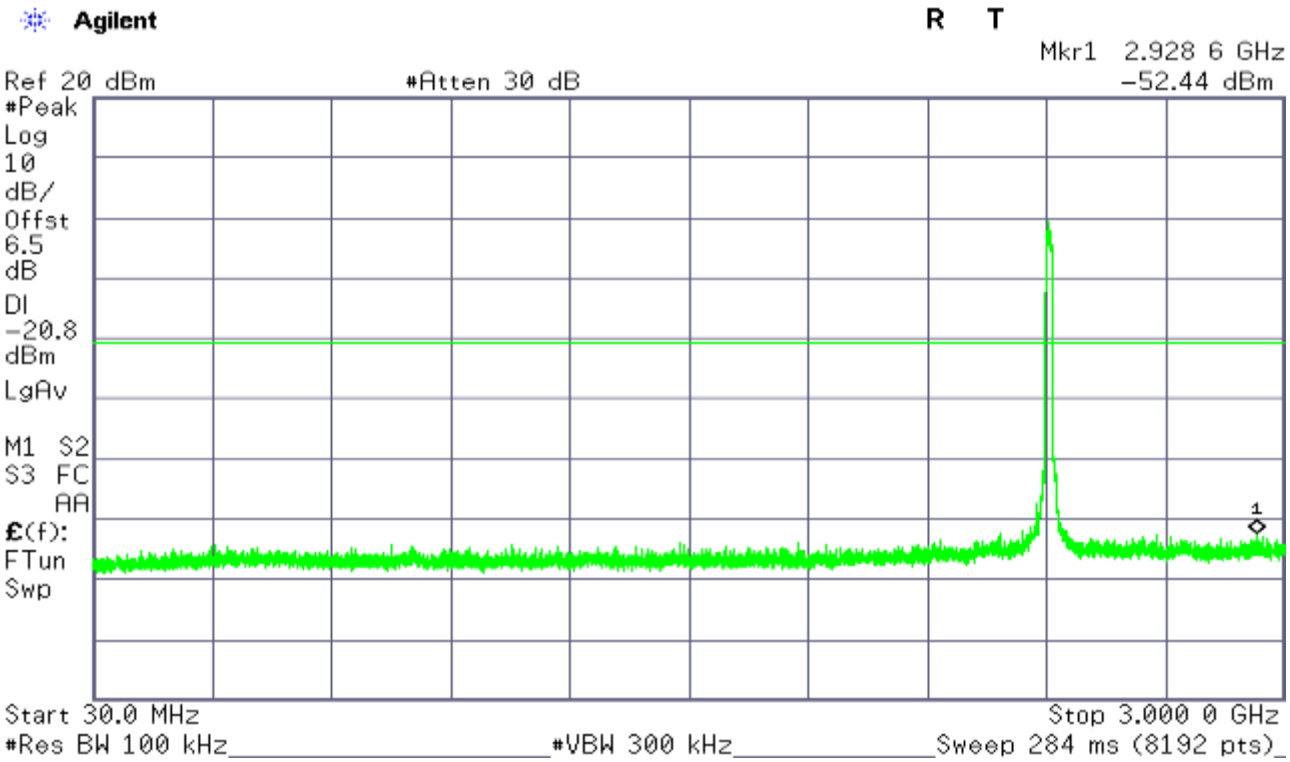


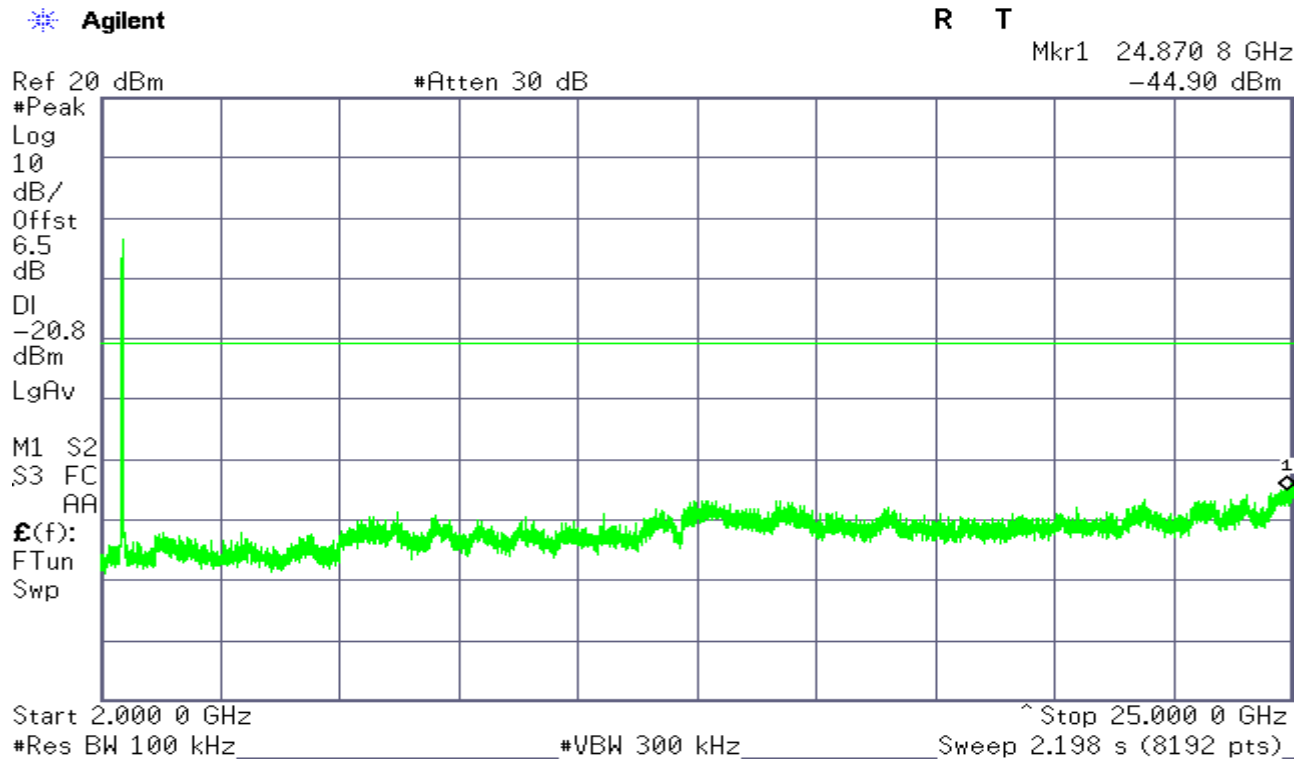
IEEE 802.11g mode

CH Low

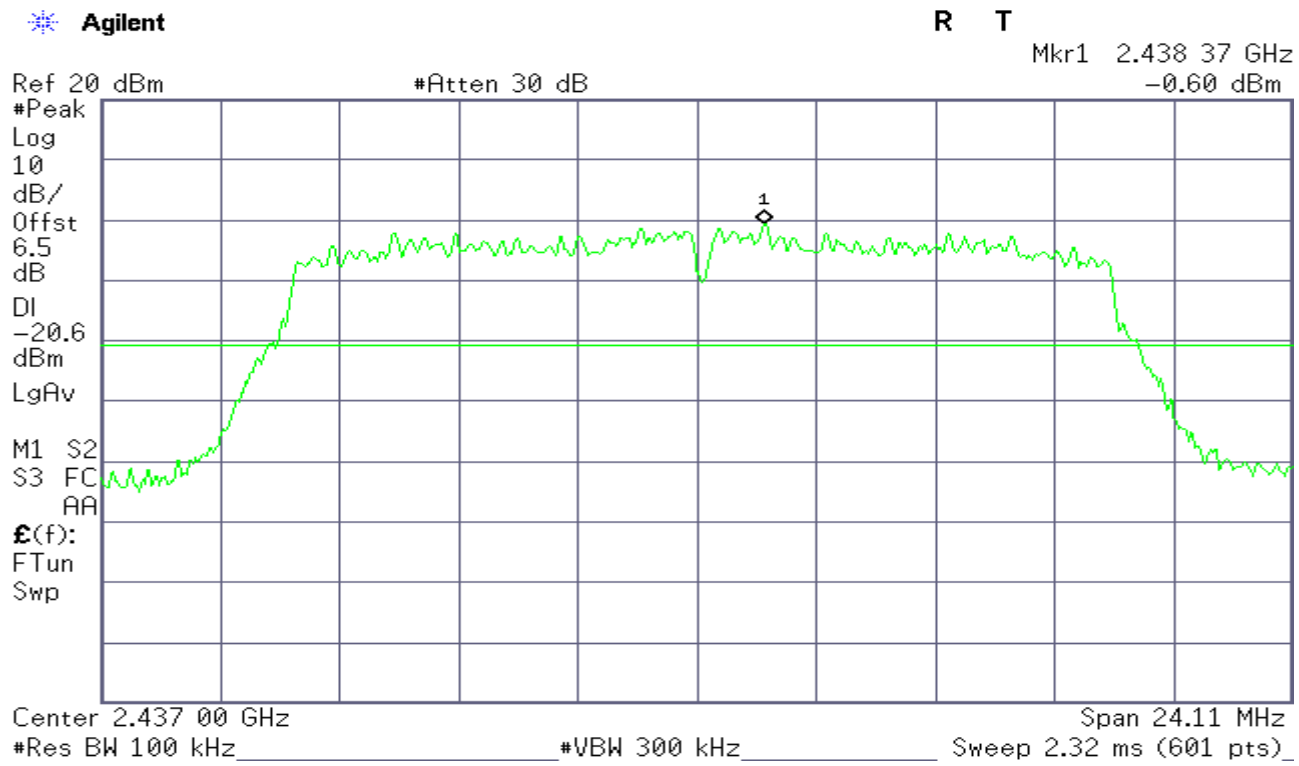


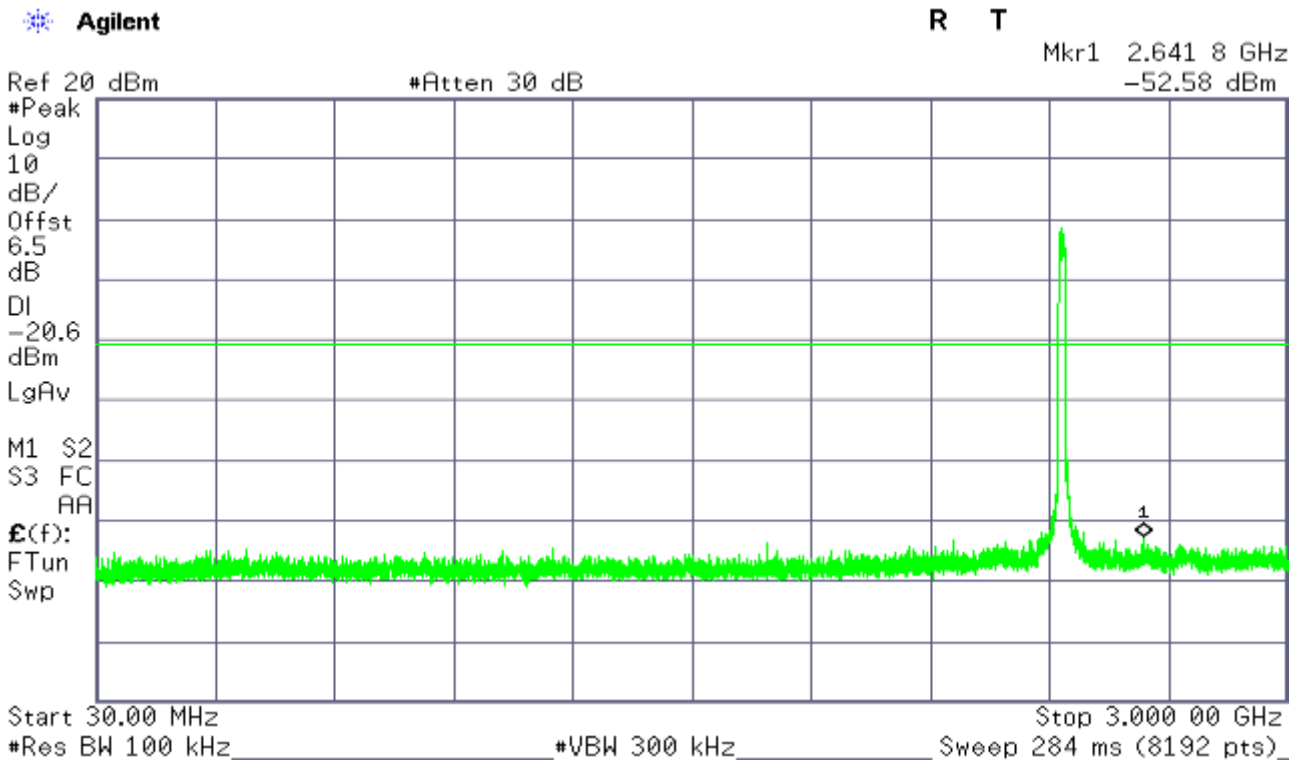

Agilent
R T
Mkr2 2.397 088 GHz
-42.11 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.8
dBm
LgAv
M1 S2
Start 2.310 000 GHz
Stop 2.445 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.400 000 GHz -43.88 dBm
2 (1) Freq 2.397 088 GHz -42.11 dBm

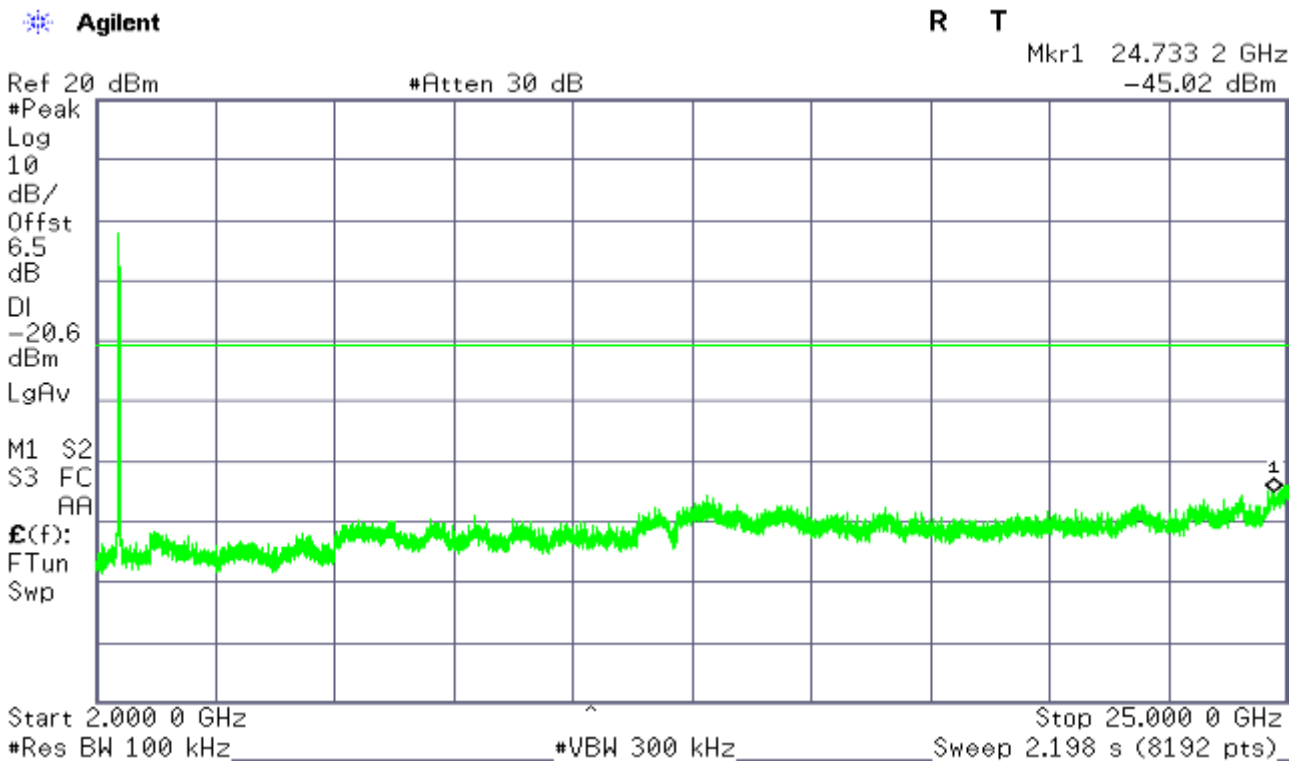

Agilent
R T
Mkr1 2.928 6 GHz
-52.44 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.8
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)


Agilent
R T
Mkr1 24.870 8 GHz
-44.90 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.8
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
^Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

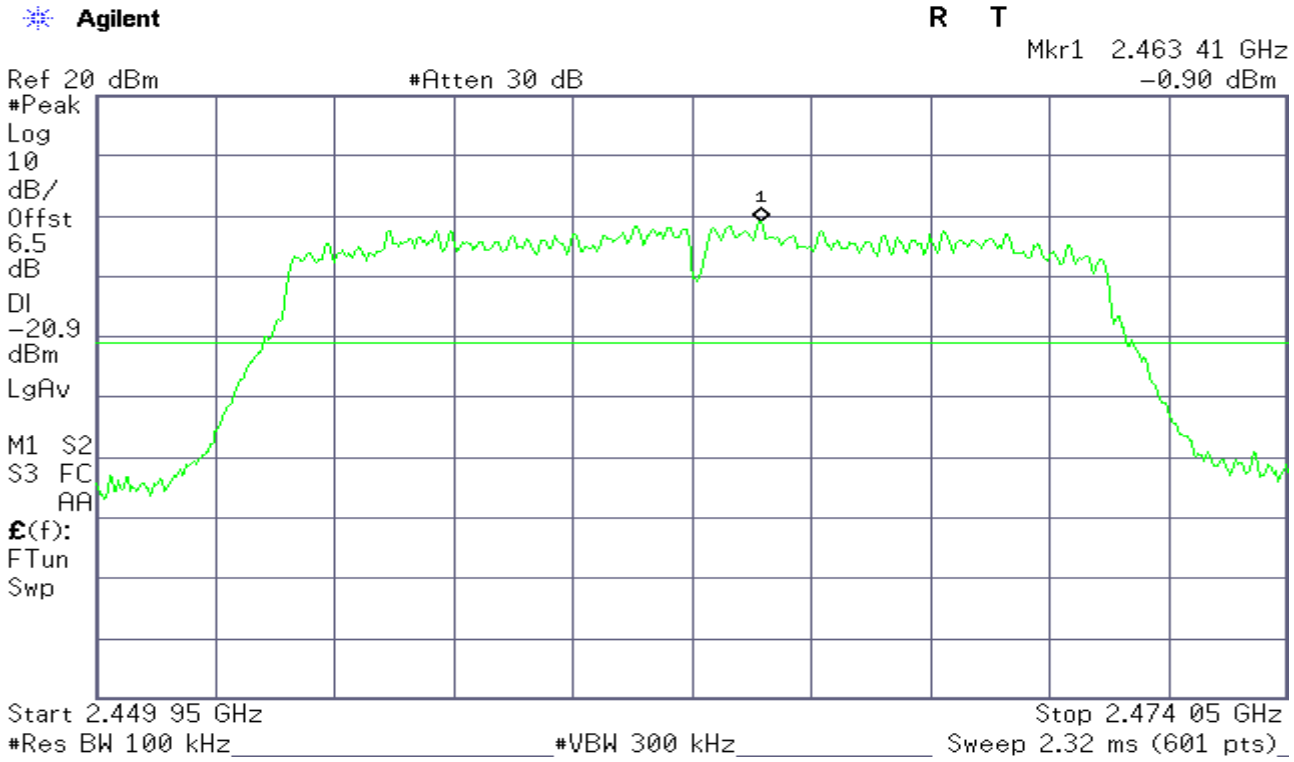
CH Mid

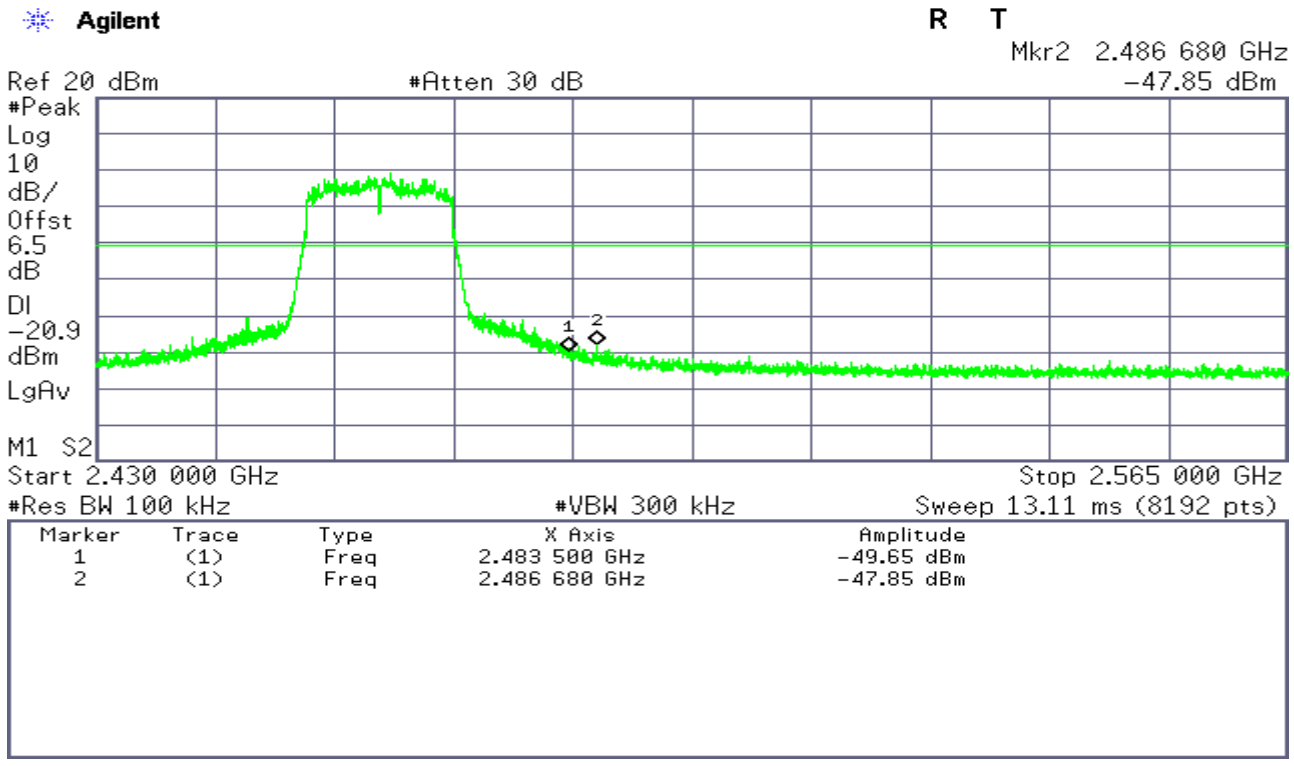

Agilent
R T
Mkr1 2.438 37 GHz
-0.60 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.437 00 GHz
Span 24.11 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.32 ms (601 pts)

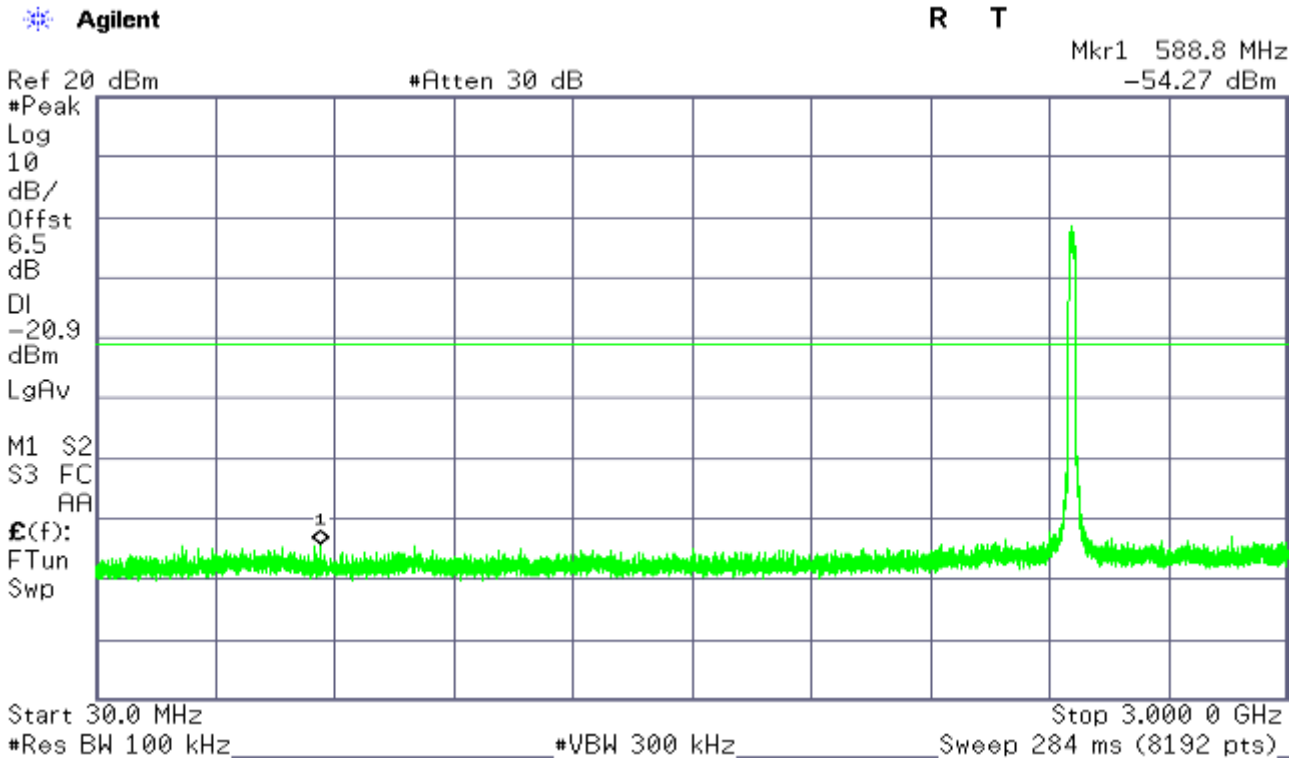

Agilent
R T
Mkr1 2.641 8 GHz
-52.58 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.00 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 00 GHz
Sweep 284 ms (8192 pts)

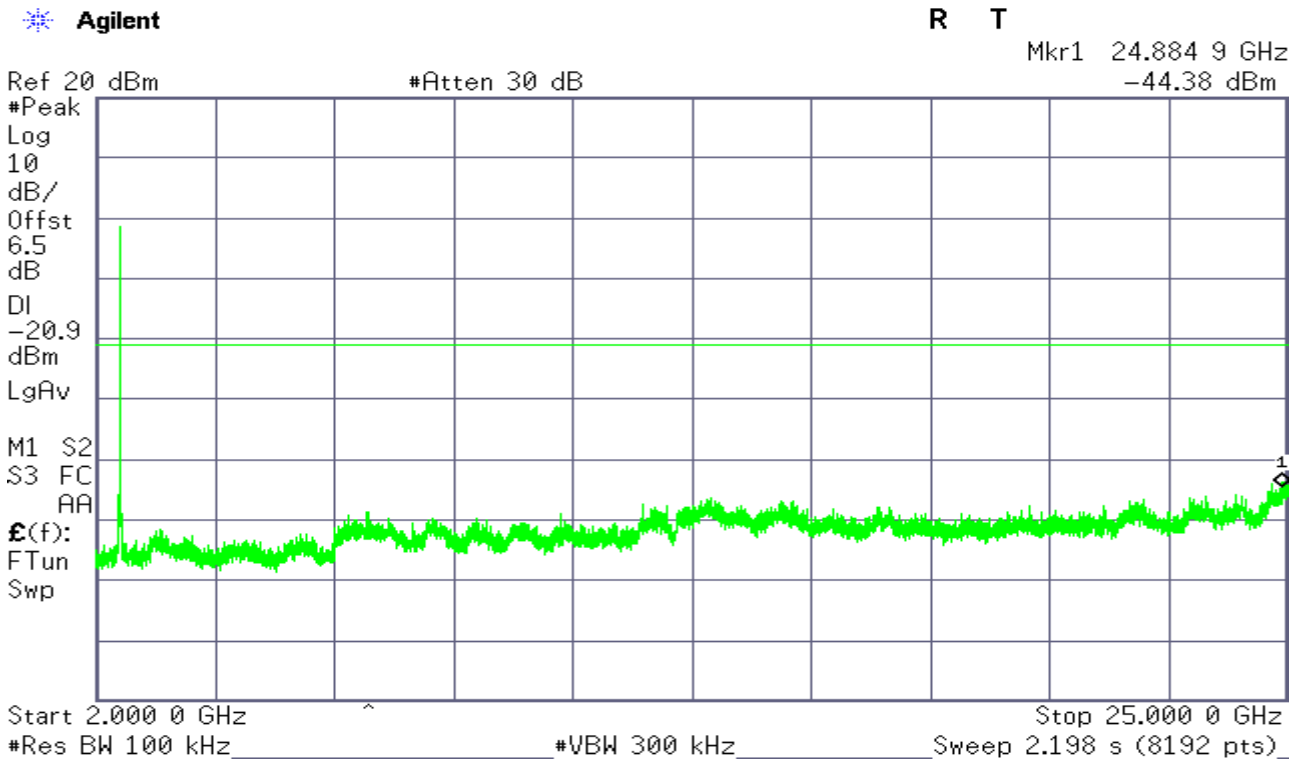

Agilent
R T
Mkr1 24.733 2 GHz
-45.02 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 0 GHz
Sweep 2.198 s (8192 pts)

CH High


Agilent
R T
Mkr1 2.463 41 GHz
-0.90 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.449 95 GHz
Stop 2.474 05 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.32 ms (601 pts)

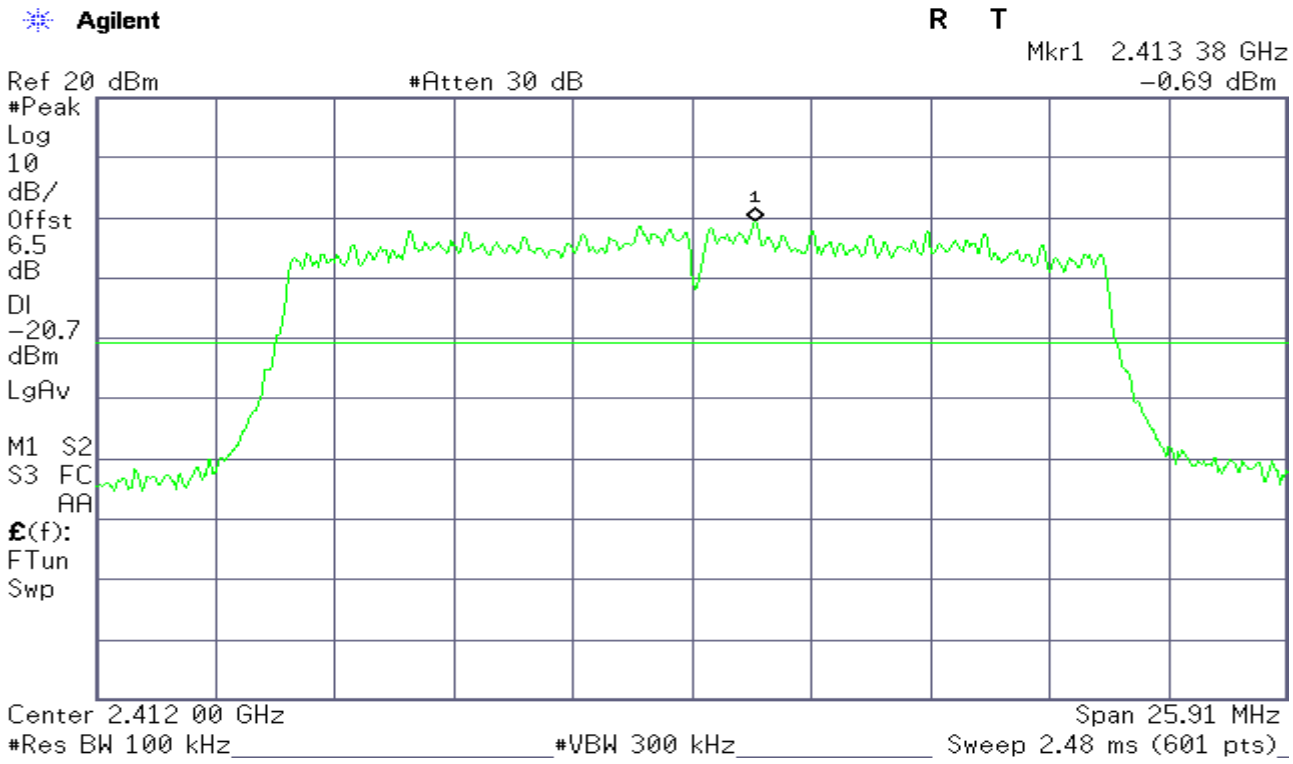

Agilent
R T
Mkr2 2.486 680 GHz
-47.85 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
Start 2.430 000 GHz
Stop 2.565 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.483 500 GHz -49.65 dBm
2 (1) Freq 2.486 680 GHz -47.85 dBm

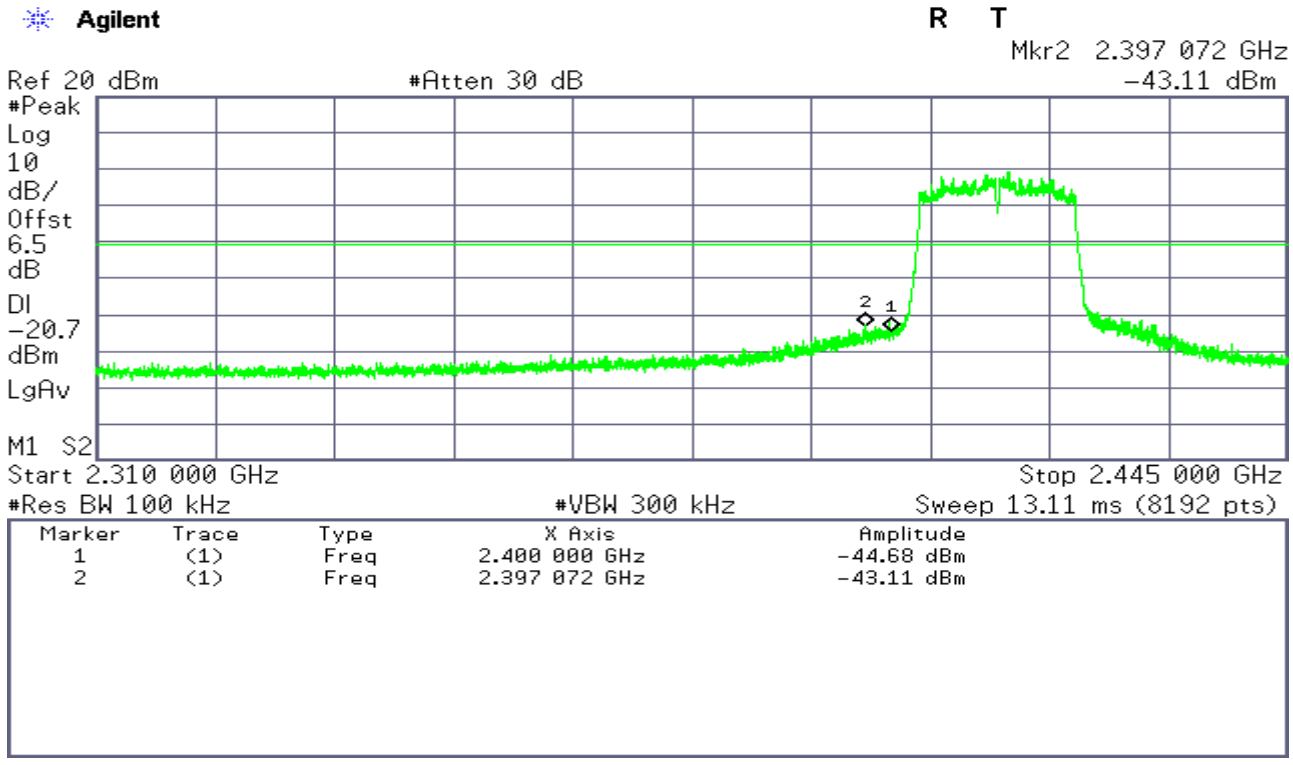

Agilent
R T
Mkr1 588.8 MHz
-54.27 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

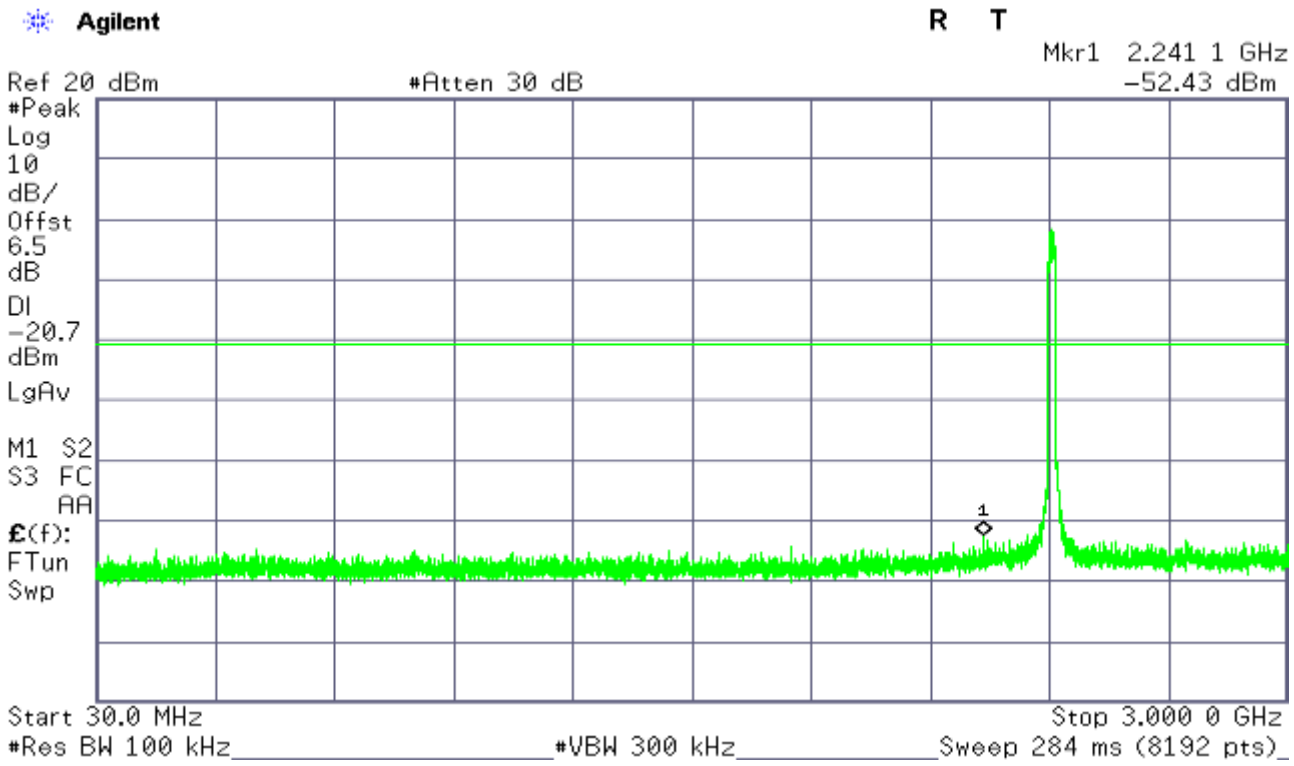

Agilent
R T
Mkr1 24.884 9 GHz
-44.38 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

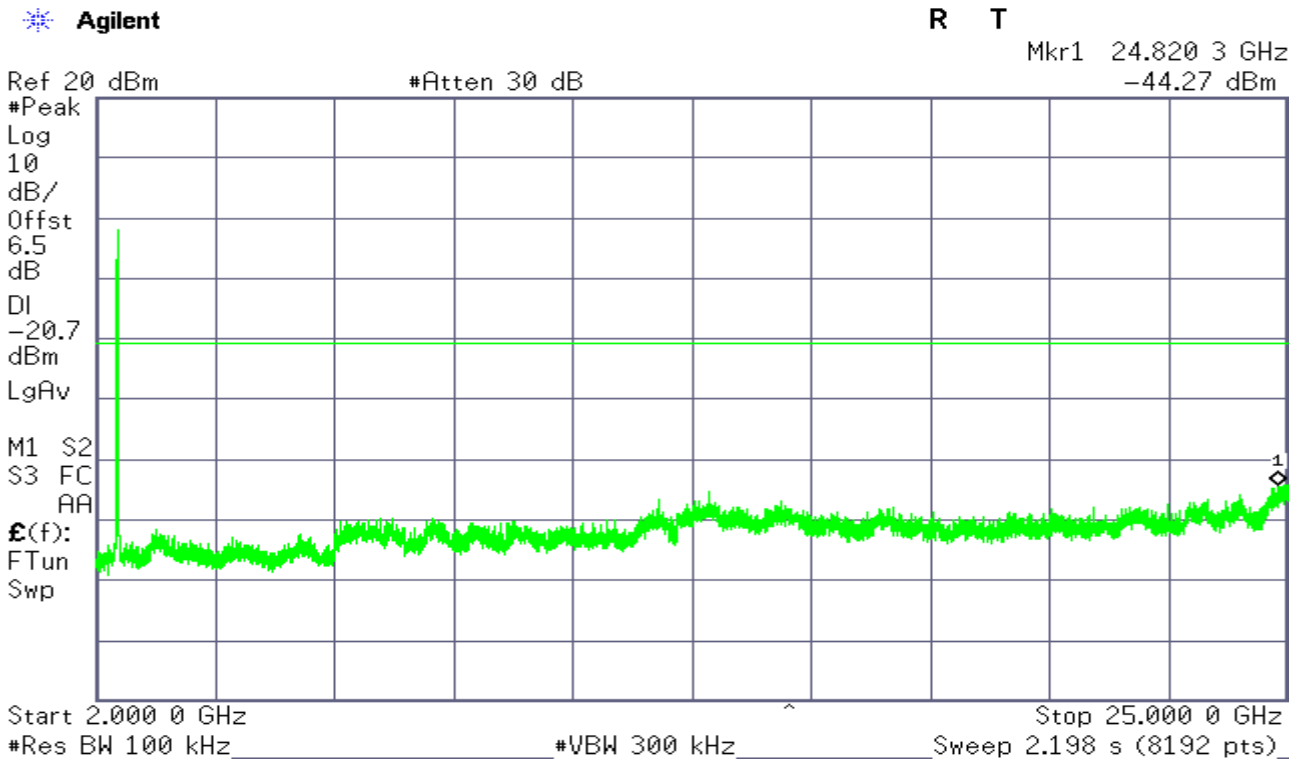
IEEE 802.11n HT20 mode

CH Low

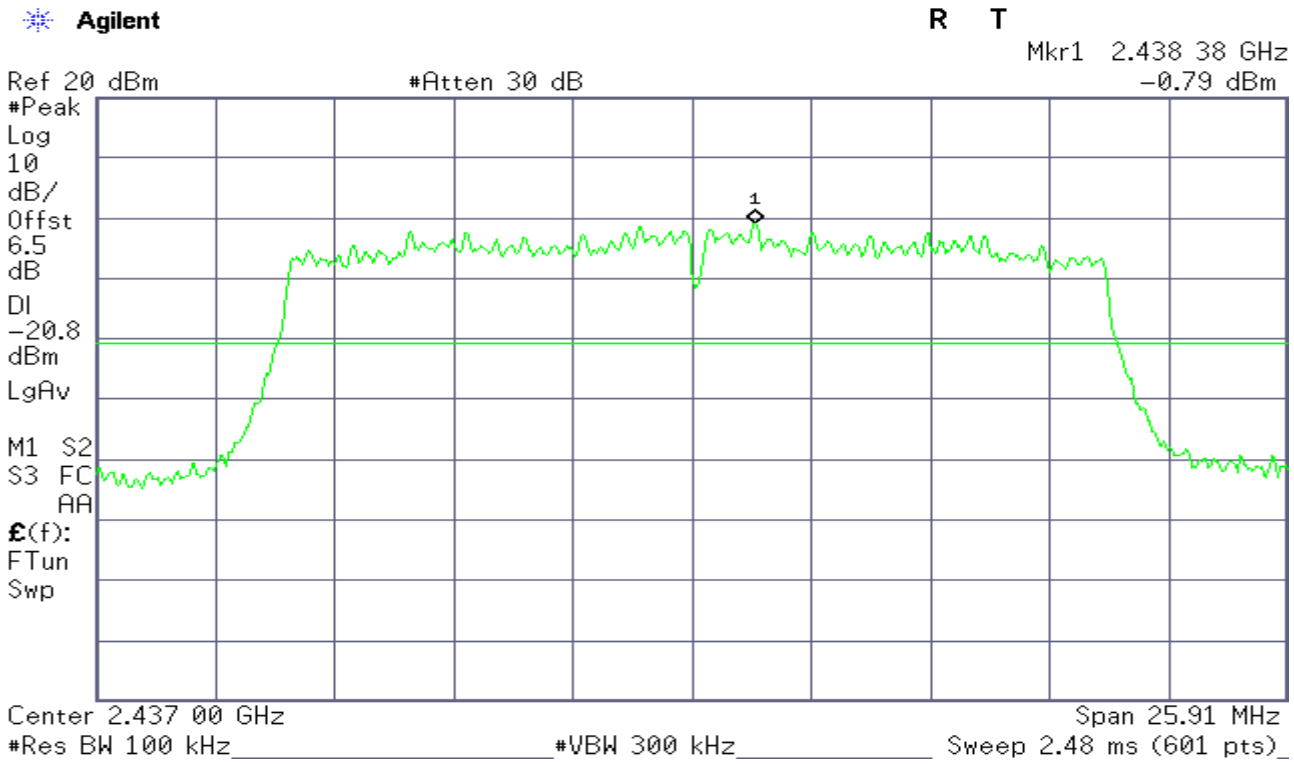


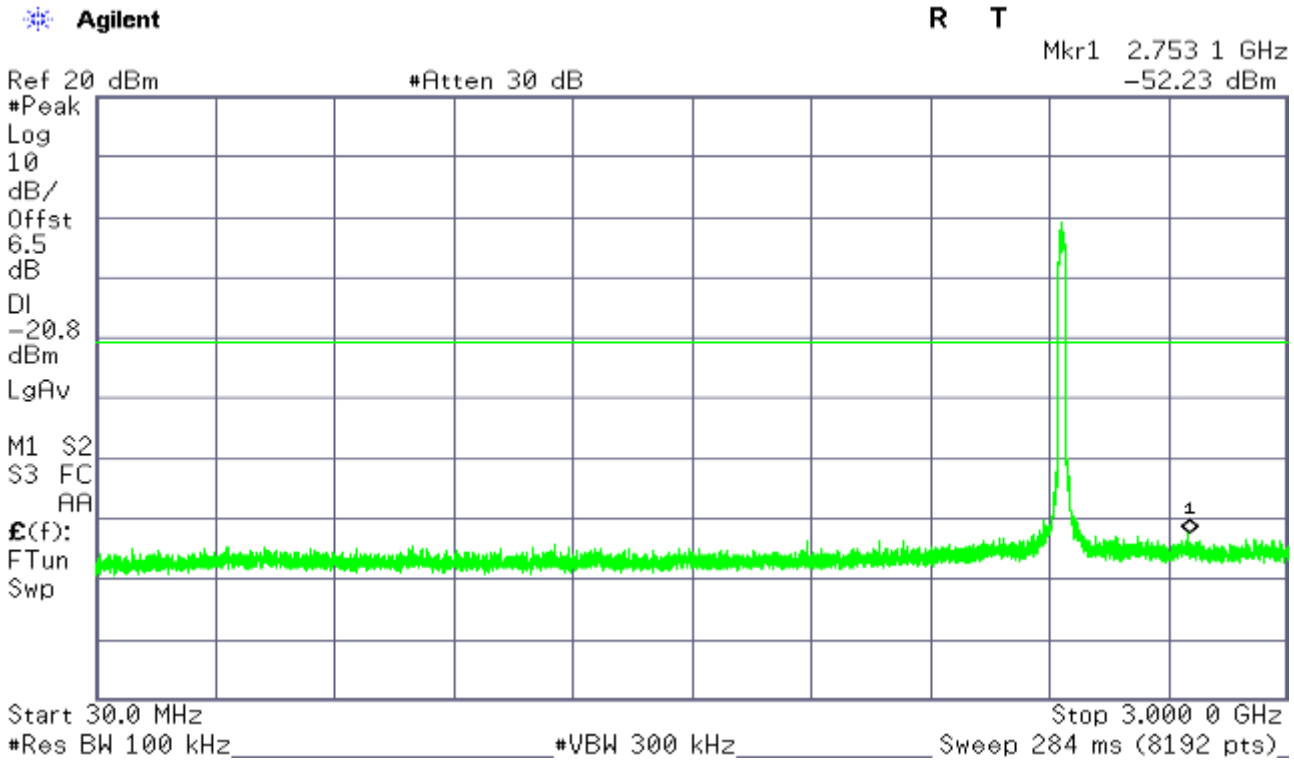


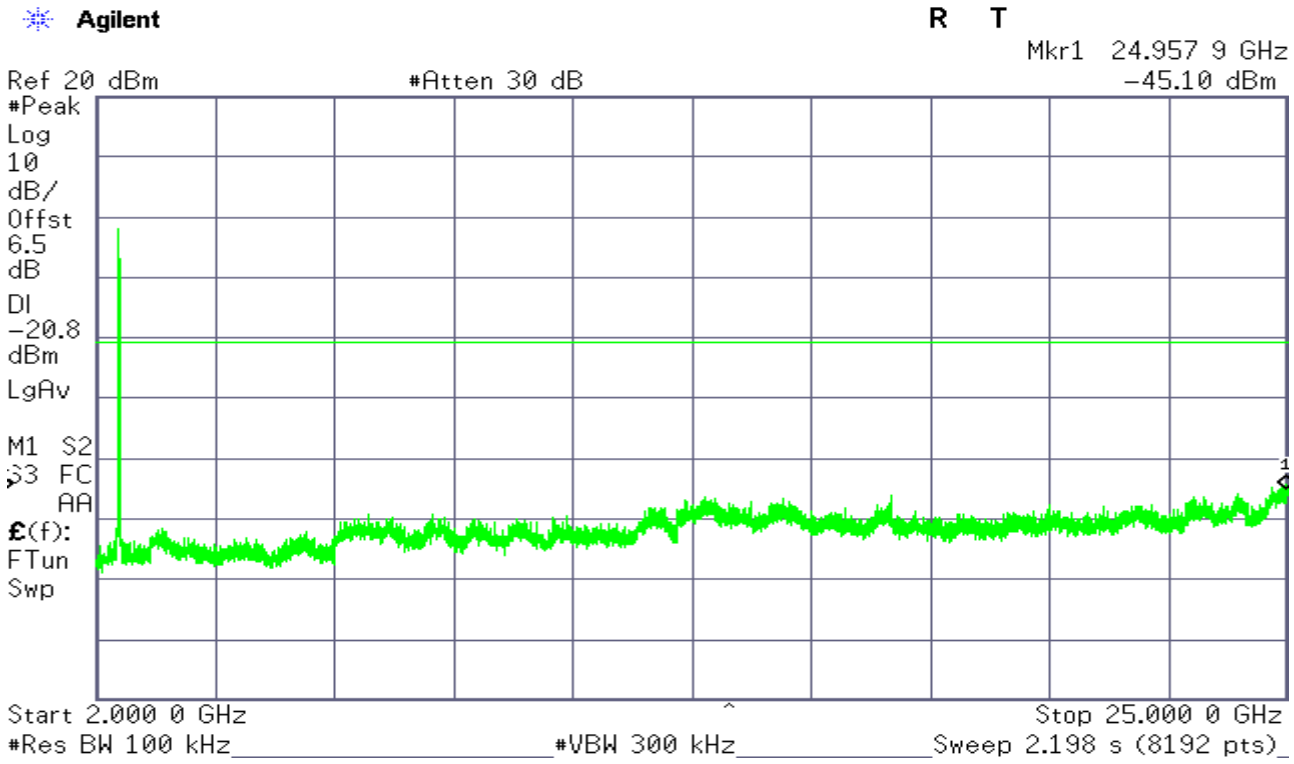

Agilent
R T
Mkr1 2.241 1 GHz
-52.43 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.7
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)


Agilent
R T
Mkr1 24.820 3 GHz
-44.27 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.7
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

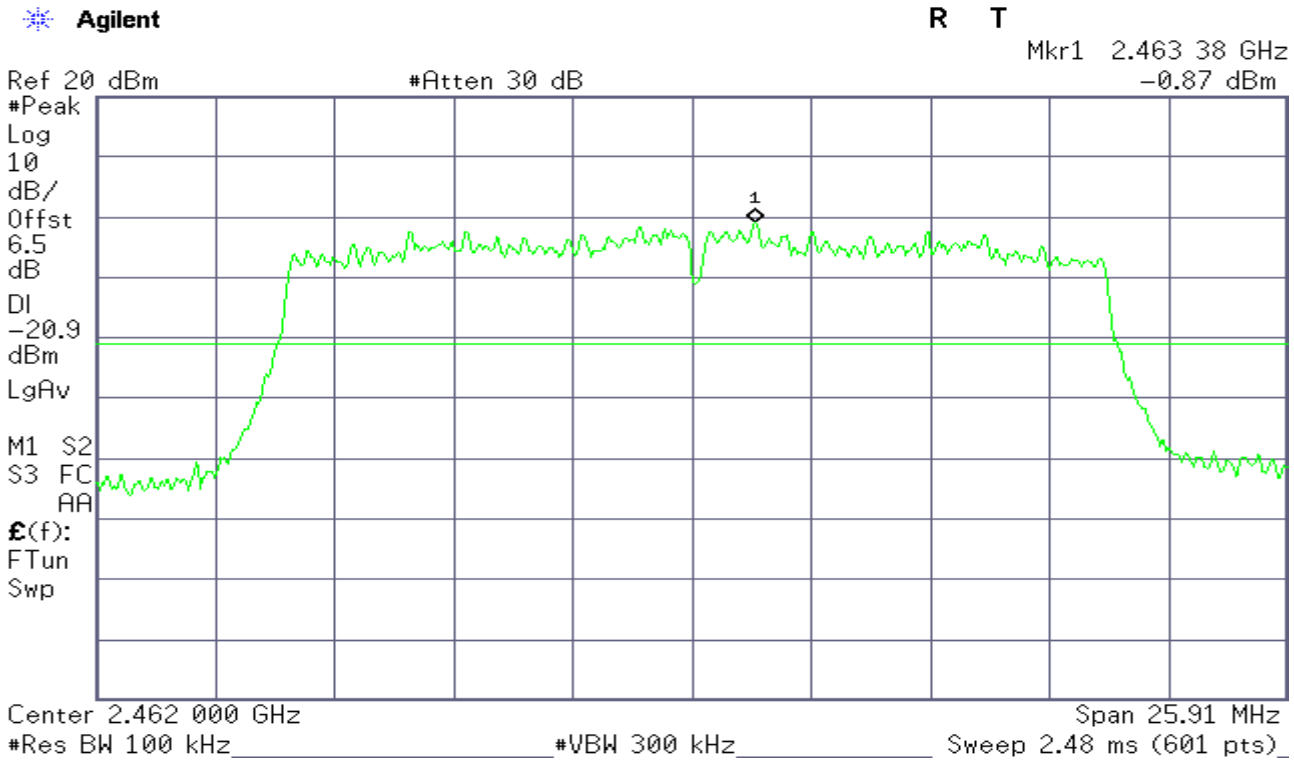
CH Mid

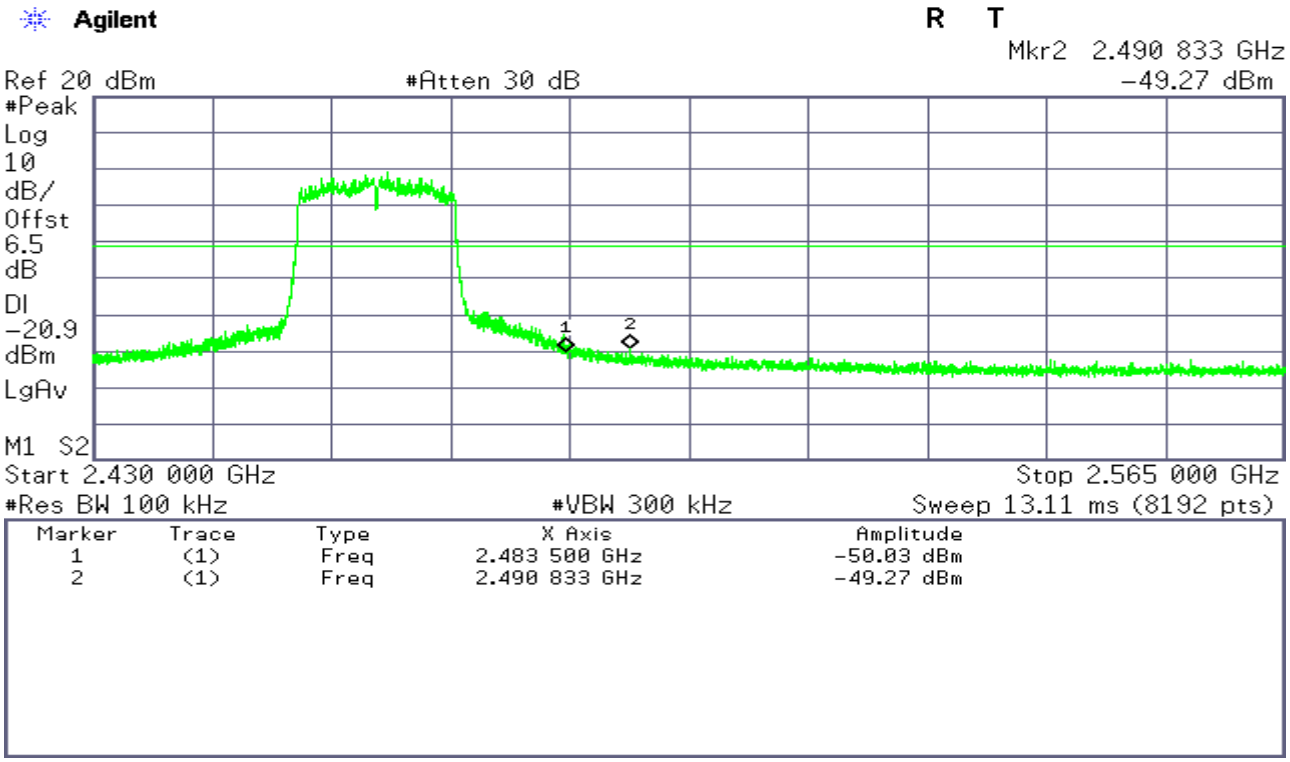

Agilent
R T
Mkr1 2.438 38 GHz
−0.79 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
−20.8
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.437 00 GHz
Span 25.91 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.48 ms (601 pts)

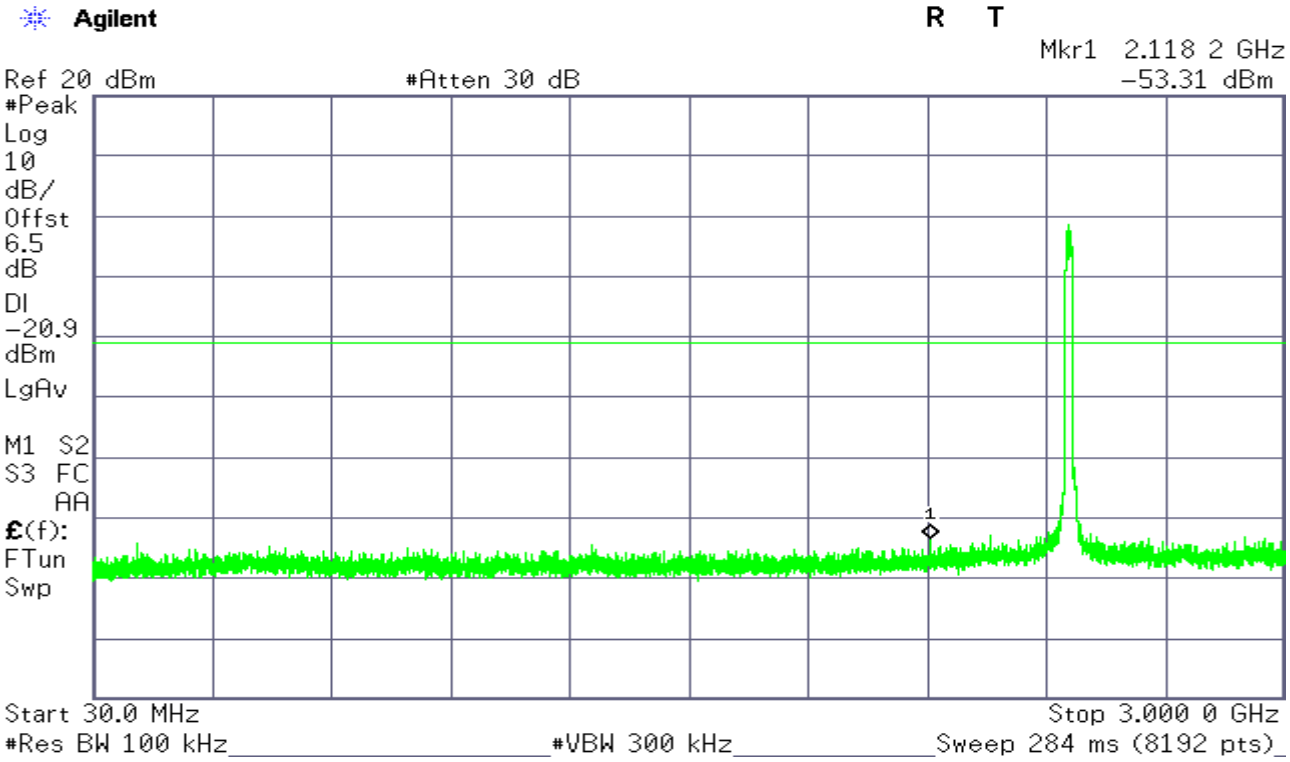

Agilent
R T
Mkr1 2.753 1 GHz
−52.23 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
−20.8
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

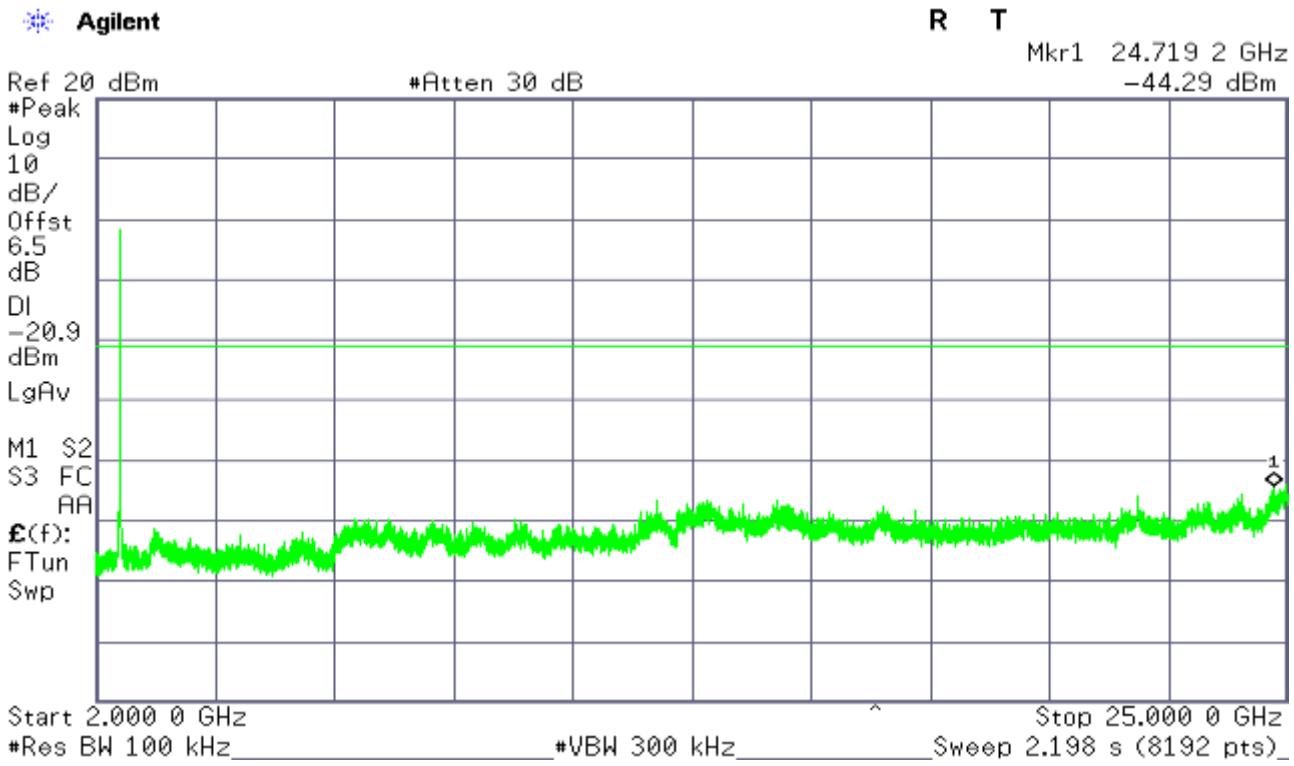

Agilent
R T
Mkr1 24.957 9 GHz
-45.10 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.8
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

CH High


Agilent
R T
Mkr1 2.463 38 GHz
-0.87 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.462 000 GHz
Span 25.91 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.48 ms (601 pts)

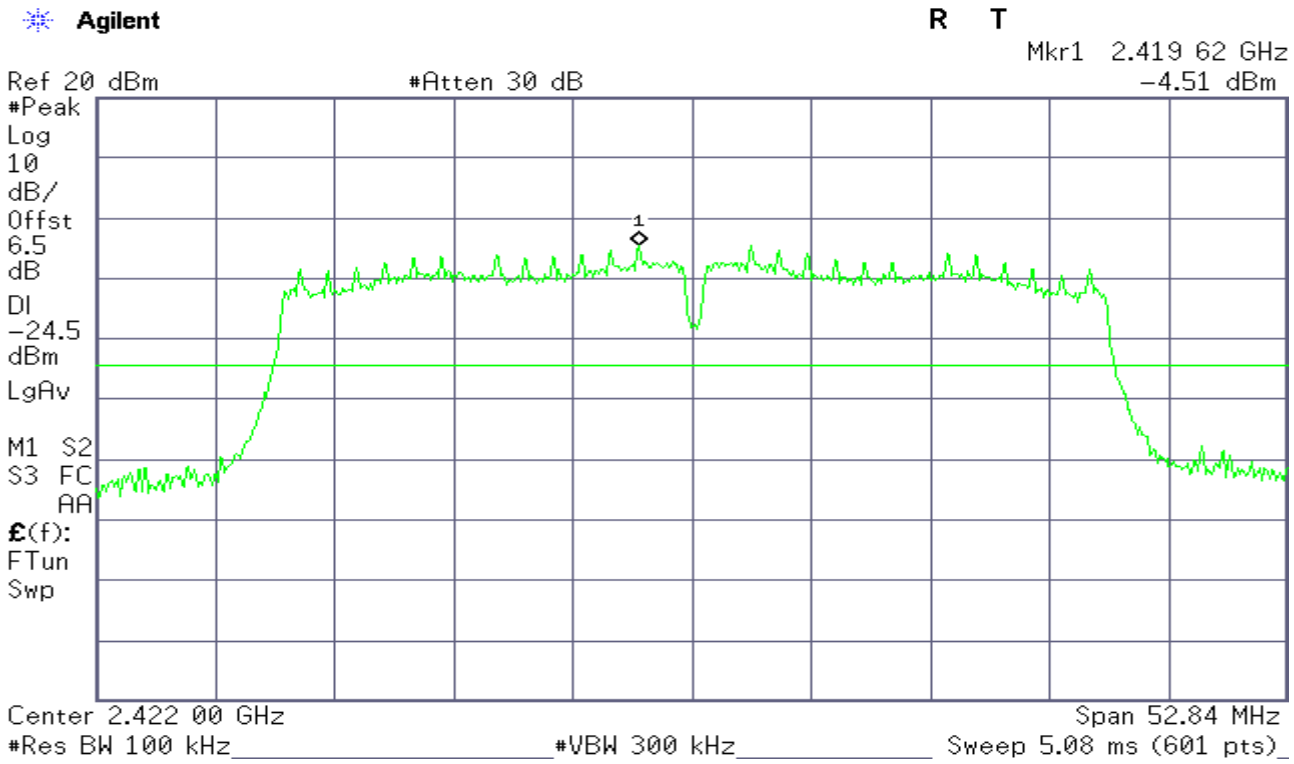

Agilent
R T
Mkr2 2.490 833 GHz
-49.27 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
Start 2.430 000 GHz
Stop 2.565 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.483 500 GHz -50.03 dBm
2 (1) Freq 2.490 833 GHz -49.27 dBm

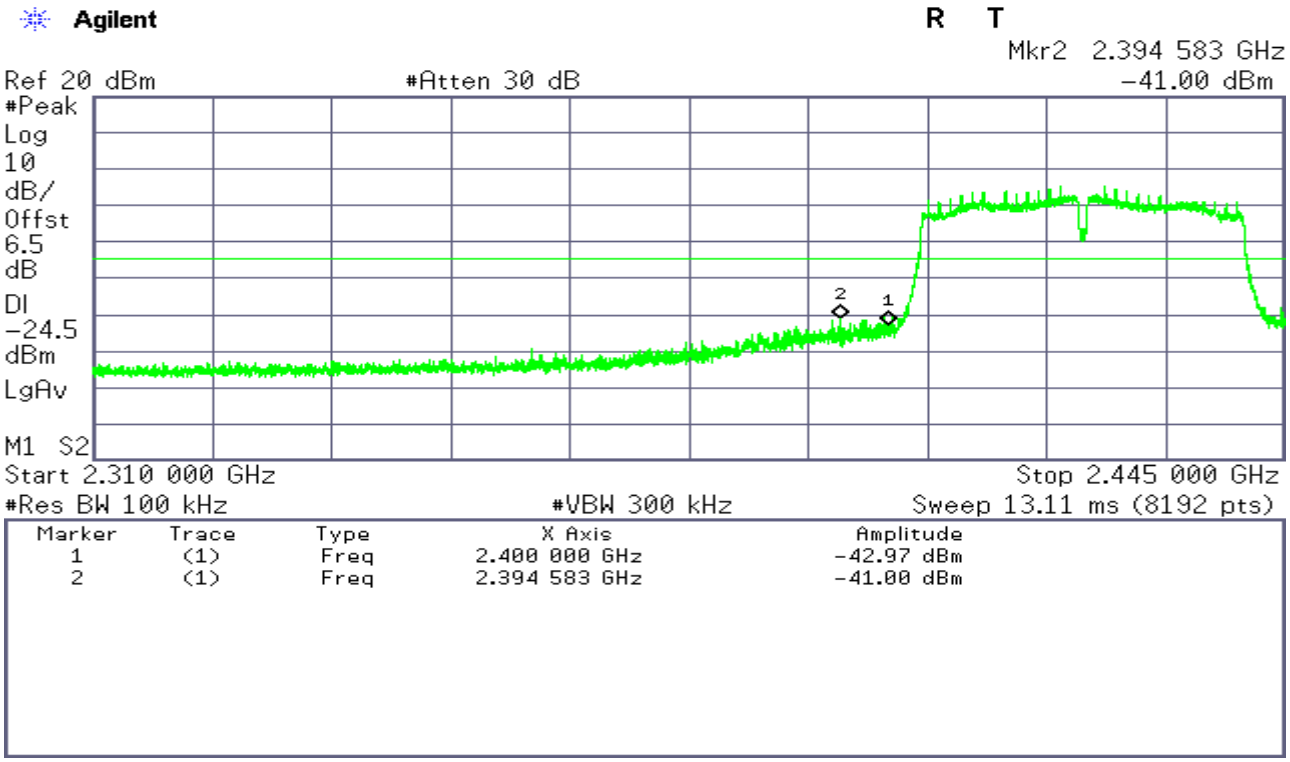

Agilent
R T
Mkr1 2.118 2 GHz
-53.31 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-20.9
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

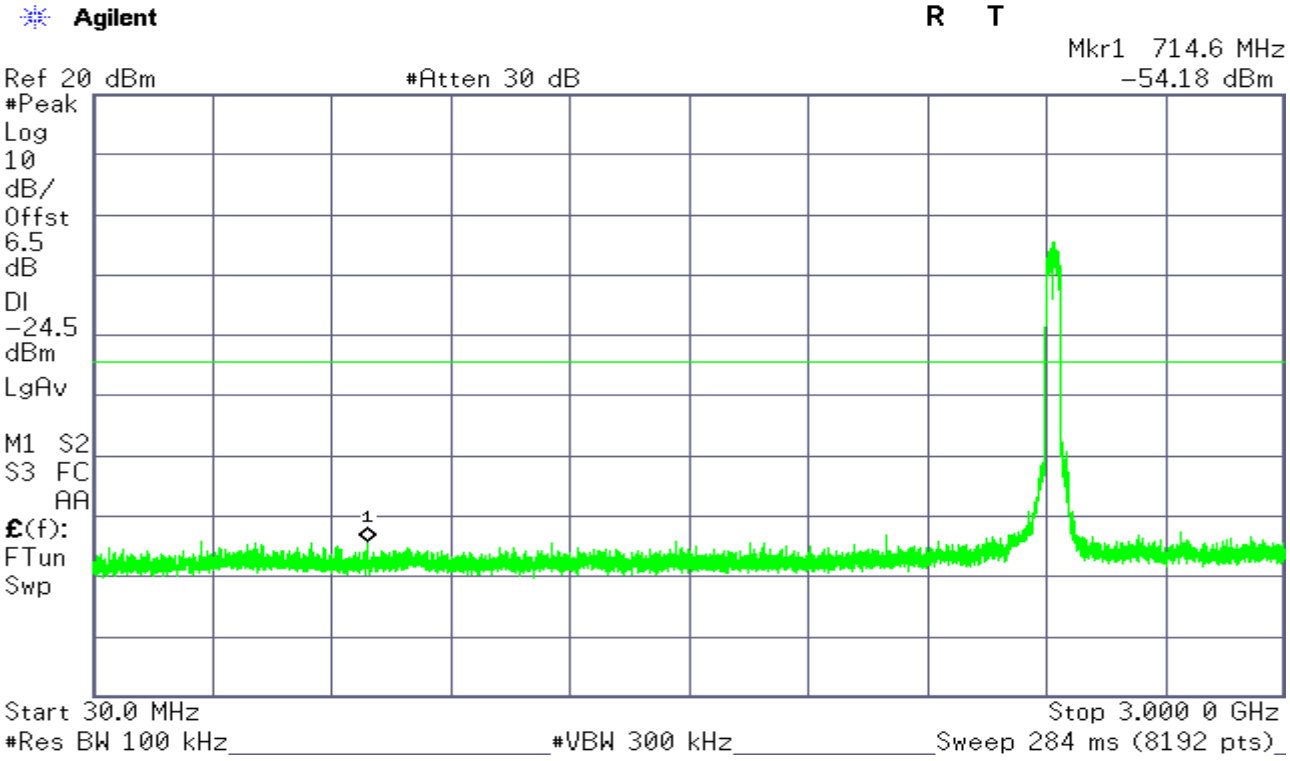


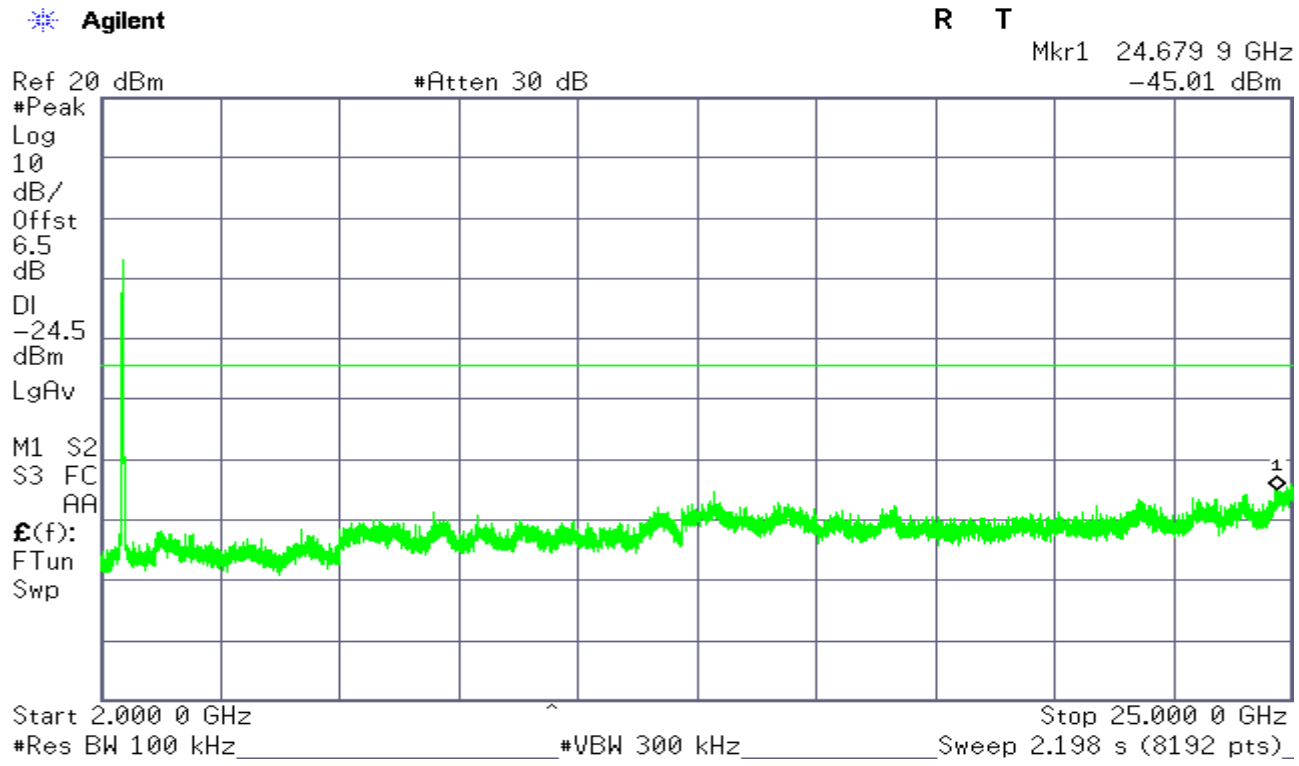
IEEE 802.11n HT40 mode

CH Low

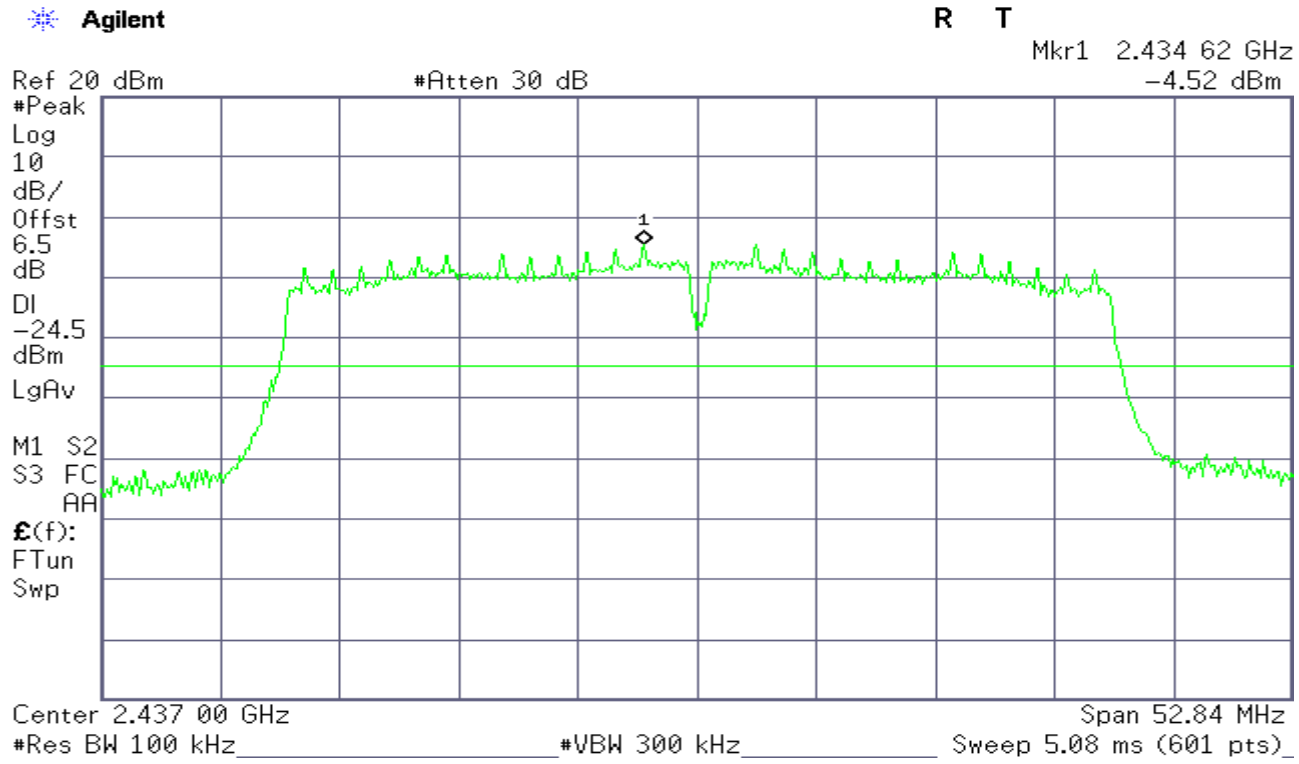


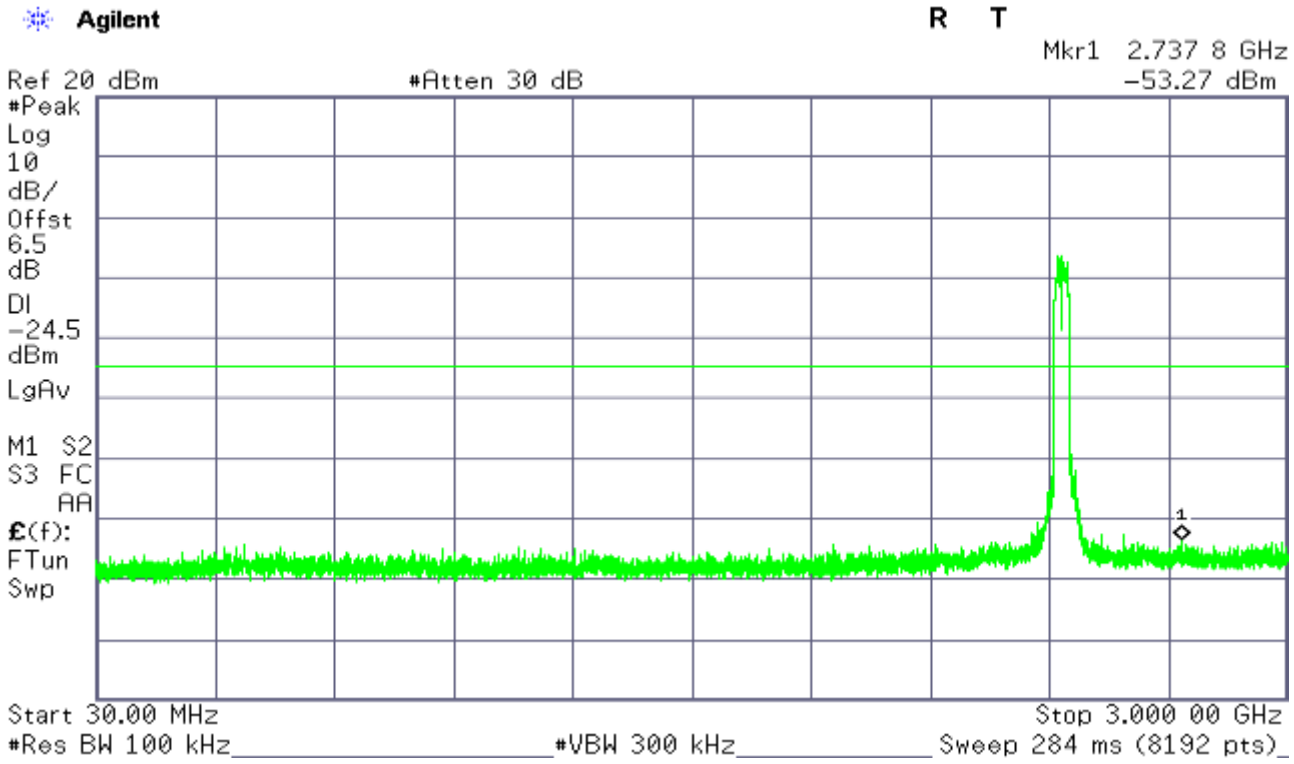

Agilent
R T
Mkr2 2.394 583 GHz
Ref 20 dBm
#Atten 30 dB
-41.00 dBm
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
Start 2.310 000 GHz
Stop 2.445 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.400 000 GHz -42.97 dBm
2 (1) Freq 2.394 583 GHz -41.00 dBm

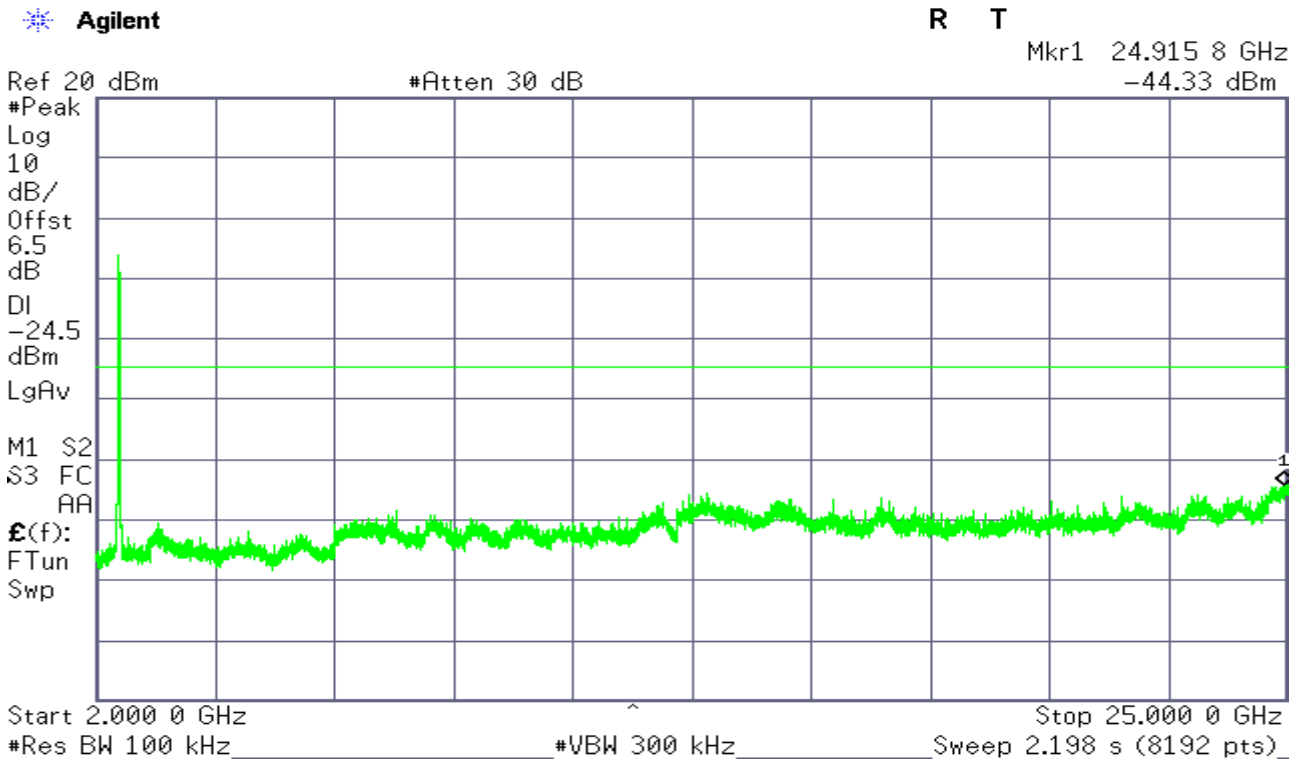

Agilent
R T
Mkr1 714.6 MHz
Ref 20 dBm
#Atten 30 dB
-54.18 dBm
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)


Agilent
R T
Mkr1 24.679 9 GHz
-45.01 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

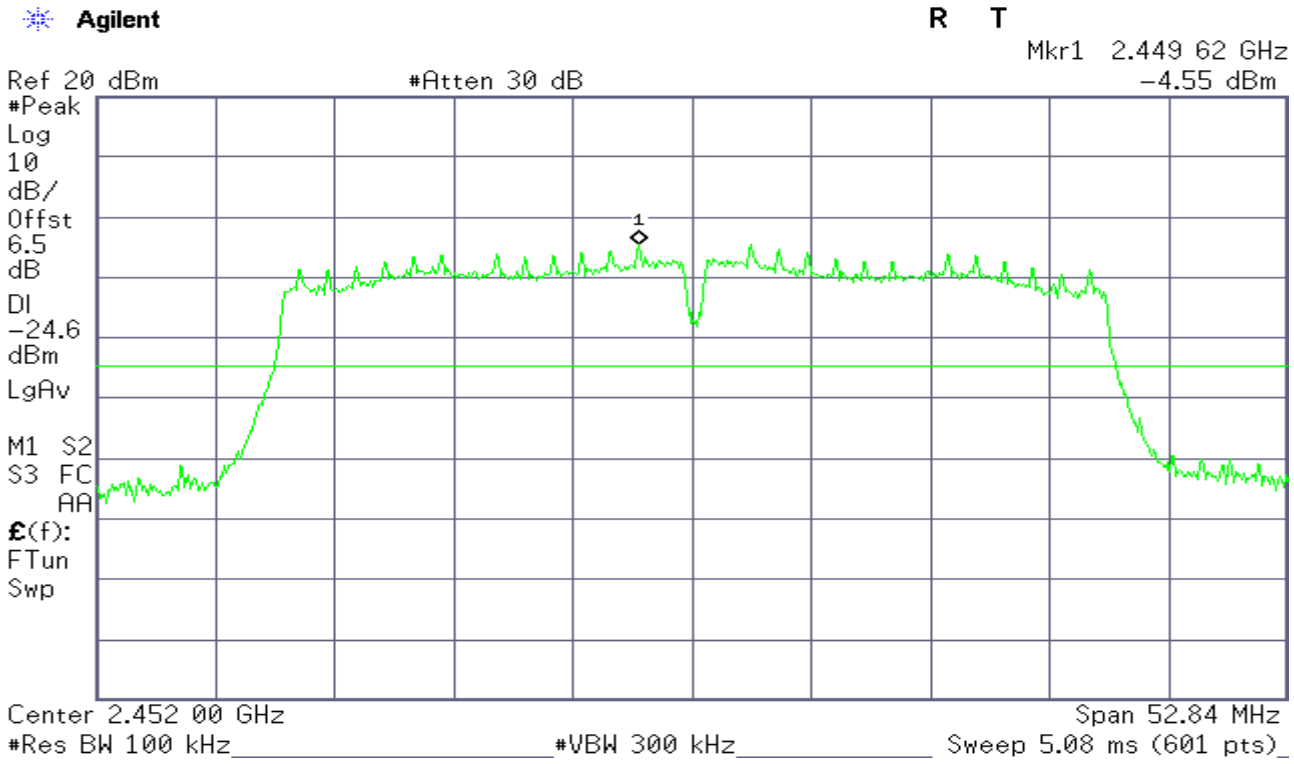
CH Mid

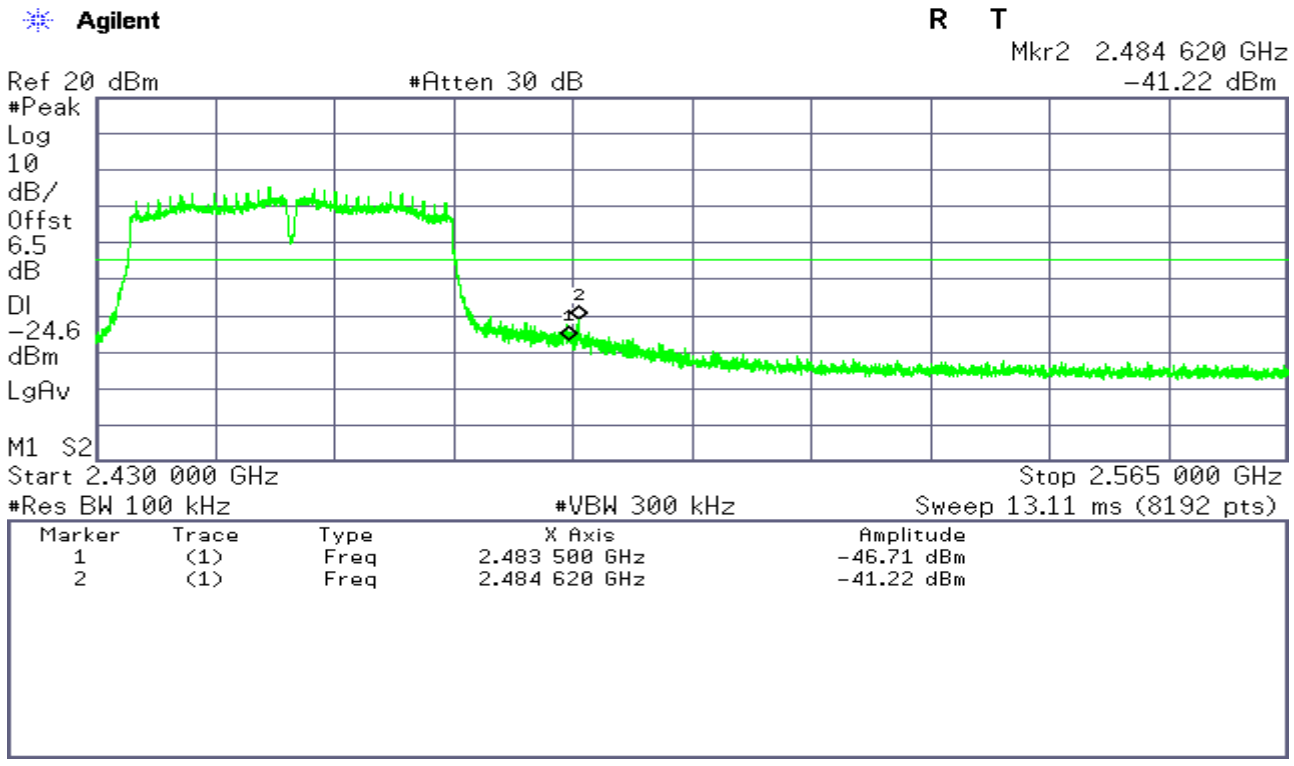

Agilent
R T
Mkr1 2.434 62 GHz
-4.52 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.437 00 GHz
Span 52.84 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5.08 ms (601 pts)

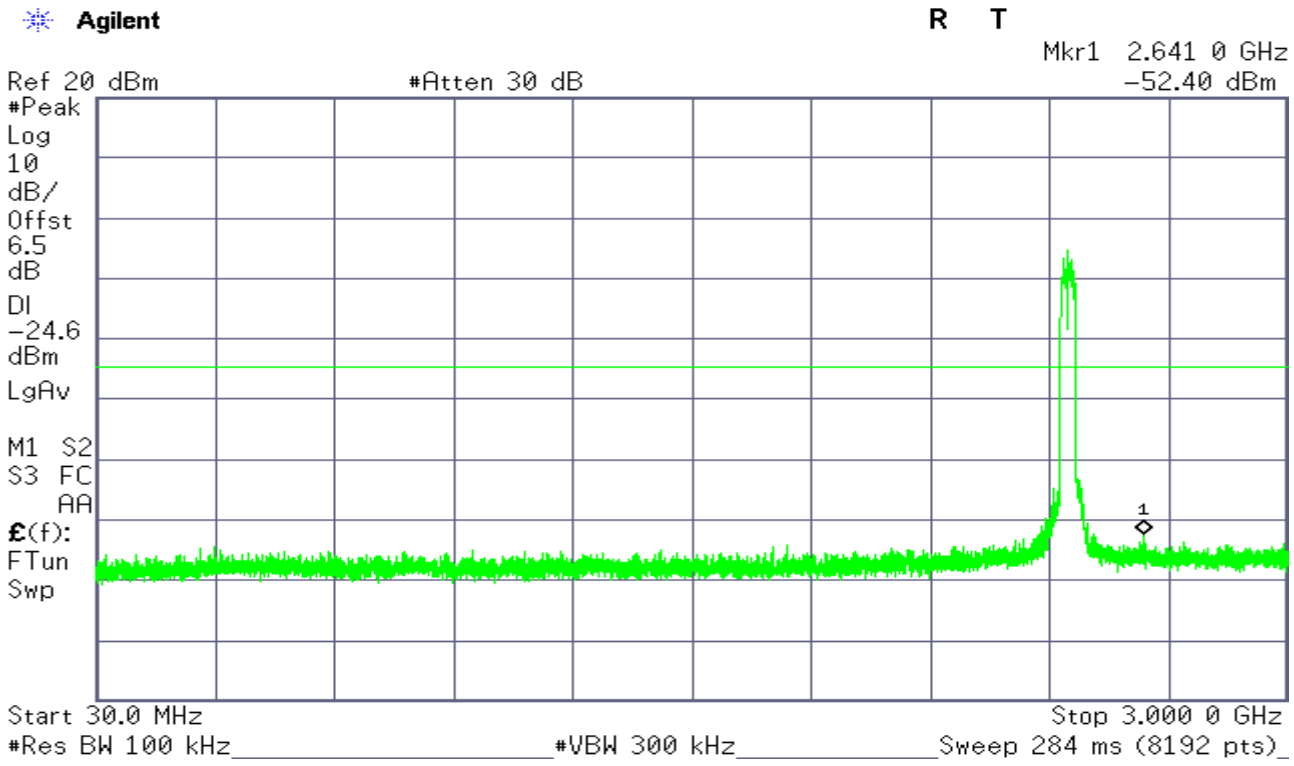

Agilent
R T
Mkr1 2.737 8 GHz
-53.27 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.00 MHz
Stop 3.000 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)

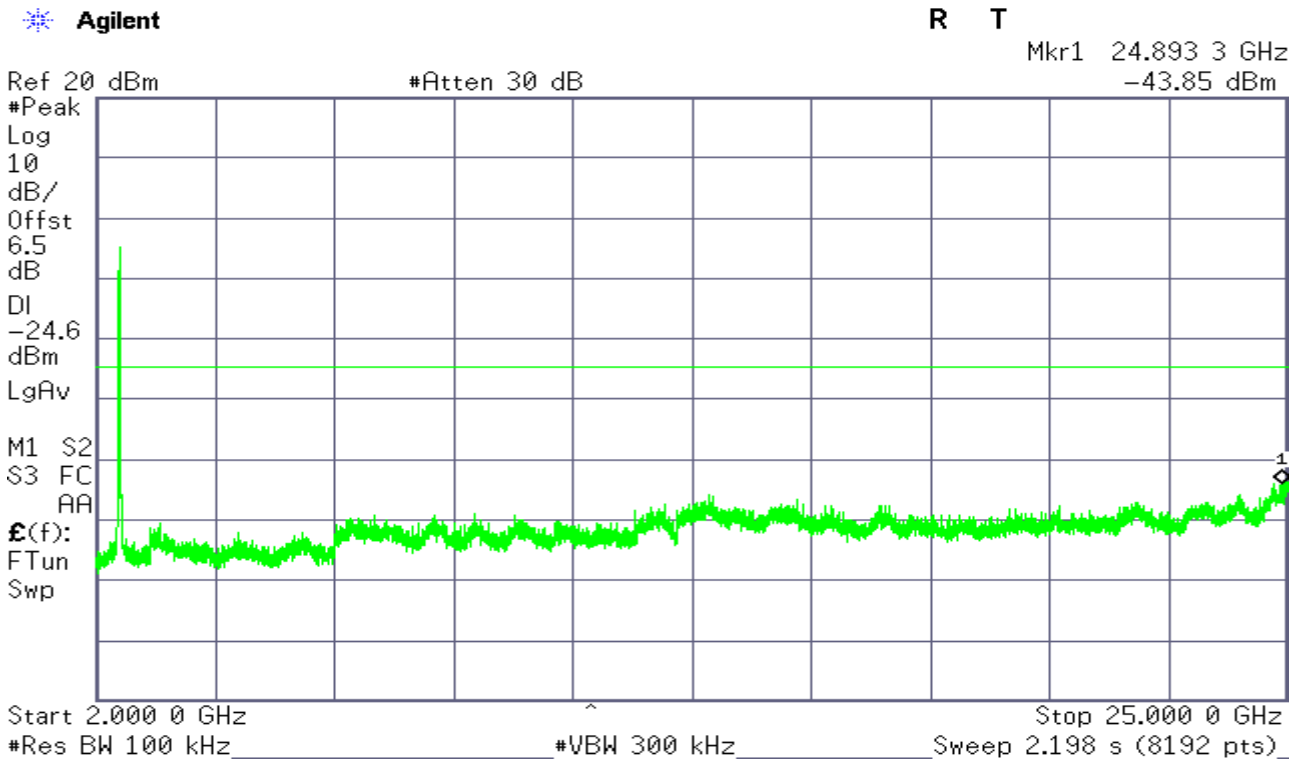

Agilent
R T
Mkr1 24.915 8 GHz
-44.33 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.5
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

CH High


Agilent
R T
Mkr1 2.449 62 GHz
-4.55 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Center 2.452 00 GHz
Span 52.84 MHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5.08 ms (601 pts)


Agilent
R T
Mkr2 2.484 620 GHz
-41.22 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.6
dBm
LgAv
M1 S2
Start 2.430 000 GHz
Stop 2.565 000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 13.11 ms (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.483 500 GHz -46.71 dBm
2 (1) Freq 2.484 620 GHz -41.22 dBm


Agilent
R T
Mkr1 2.641 0 GHz
-52.40 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 30.0 MHz
Stop 3.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 284 ms (8192 pts)


Agilent
R T
Mkr1 24.893 3 GHz
-43.85 dBm
Ref 20 dBm
#Atten 30 dB
#Peak
Log
10
dB/
Offst
6.5
dB
Dl
-24.6
dBm
LgAv
M1 S2
S3 FC
AA
£(f):
FTun
Swp
Start 2.000 0 GHz
Stop 25.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.198 s (8192 pts)

7.5.RADIATED EMISSIONS

LIMIT

Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

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:

FREQUENCIES(MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE(meters)
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

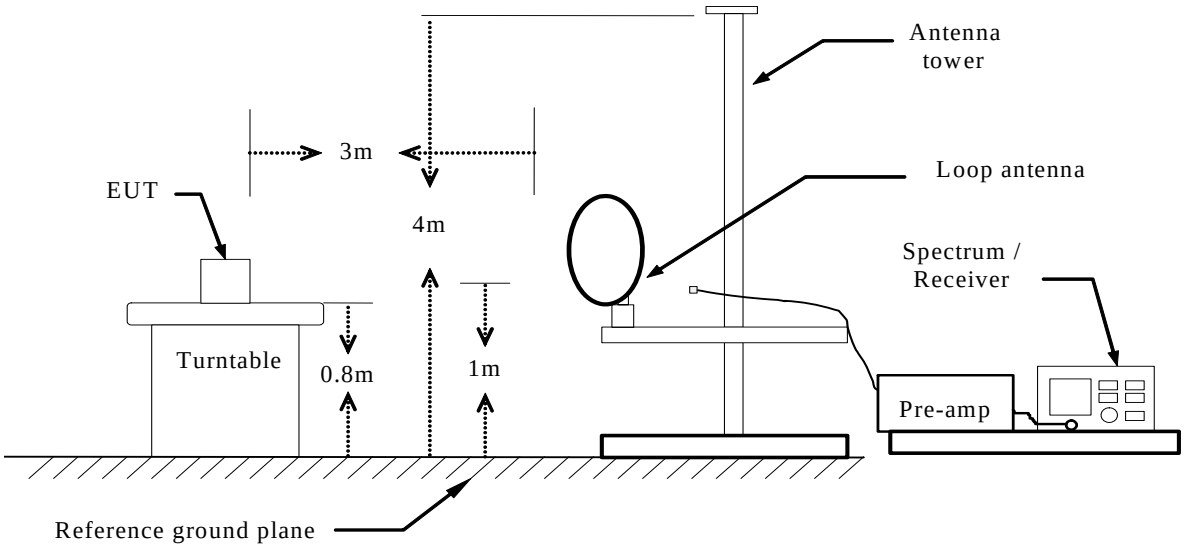
Remark: *Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of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

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

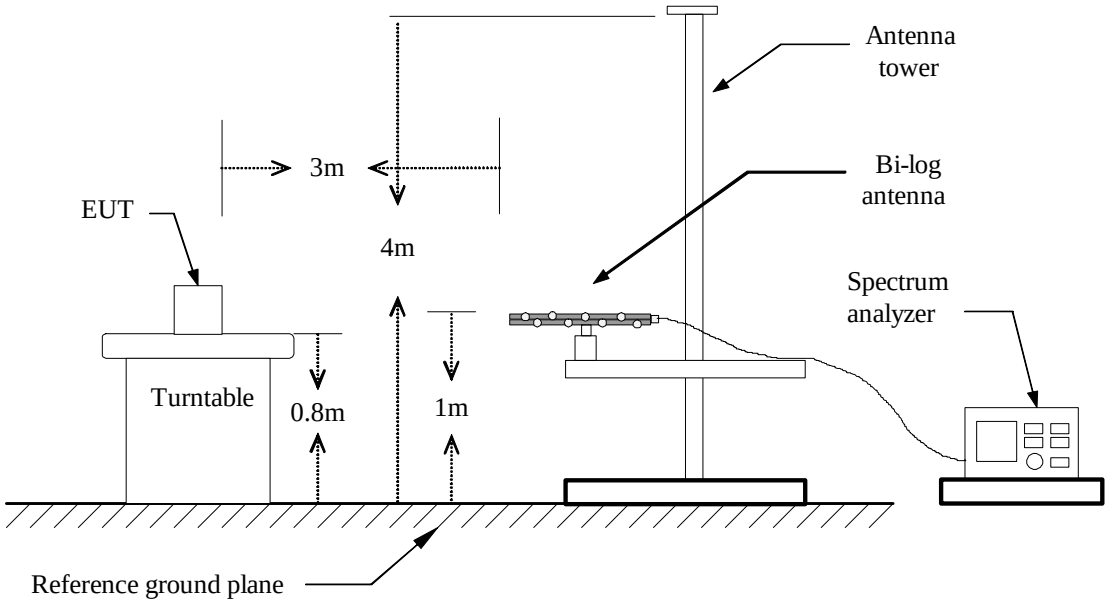
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Test Configuration

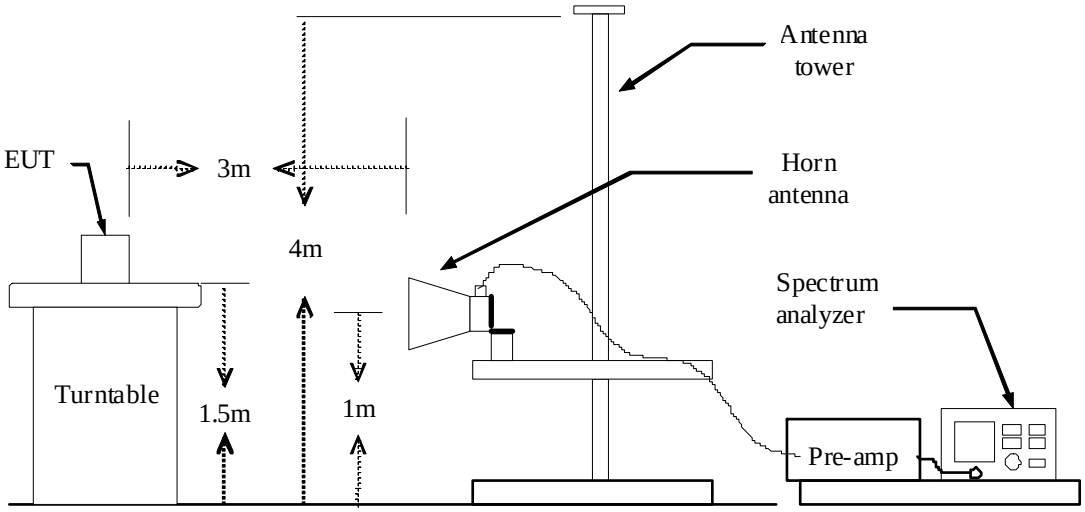
Below 30MHz



Below 1 GHz



Above 1 GHz



TEST PROCEDURE

1. The EUT is placed on a turntable above ground plane, which is 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz.
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:

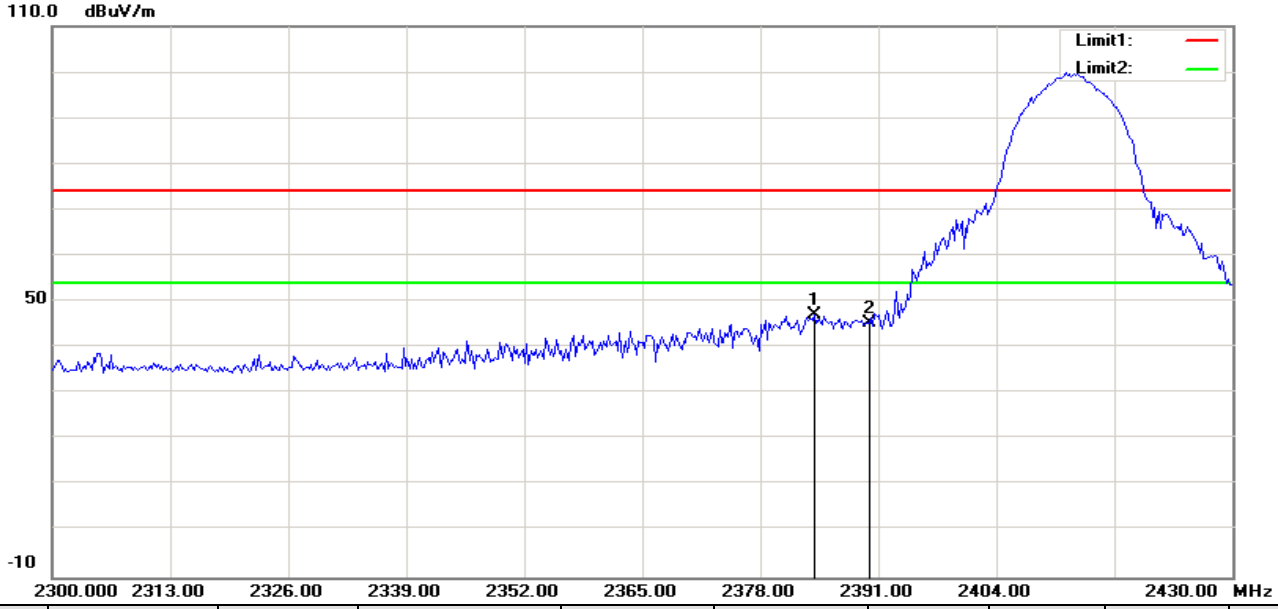
   PEAK: RBW=VBW=1MHz / Sweep=AUTO

   AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

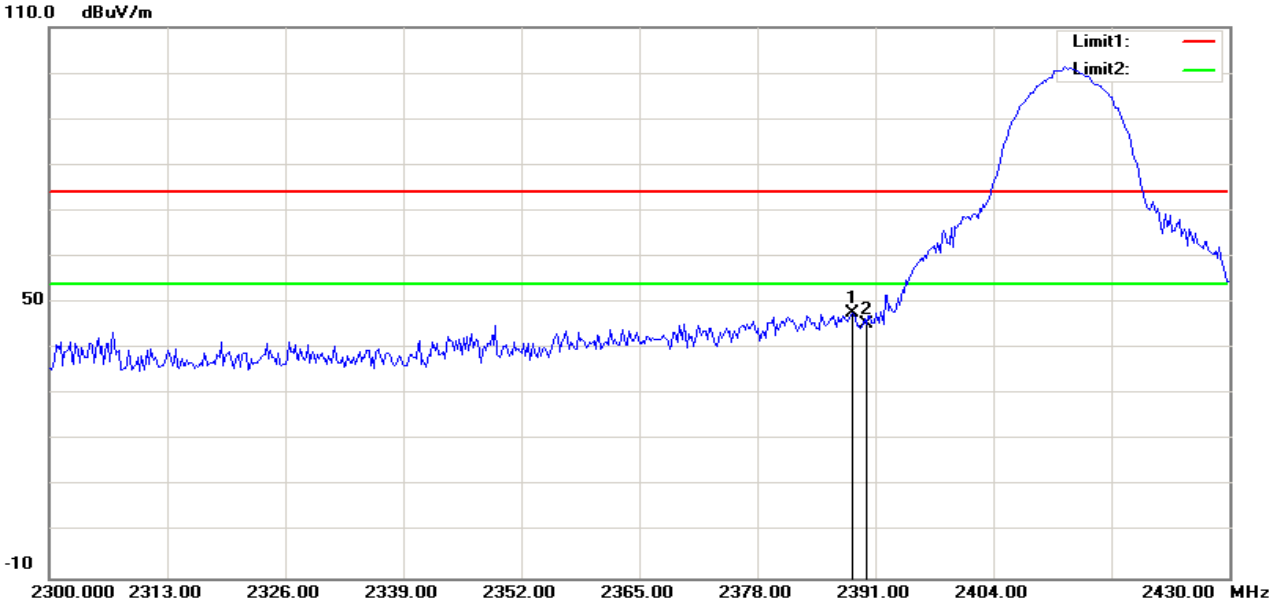
TEST RESULTS

RESTRICTED BANDEDGE (b Mode, Low Channel, Horizontal)



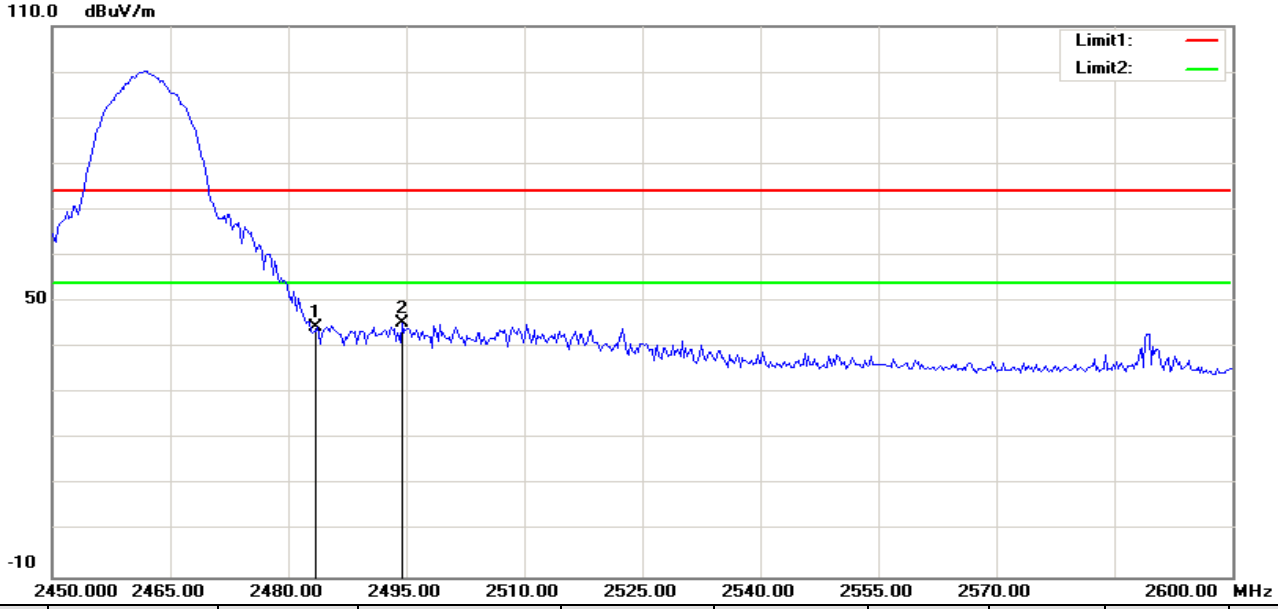
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2383.958	55.64	-8.48	47.16	74.00	-26.84	100	303	peak
2	2390.000	53.91	-8.47	45.44	74.00	-28.56	100	299	peak

RESTRICTED BANDEDGE (b Mode, Low Channel, Vertical)



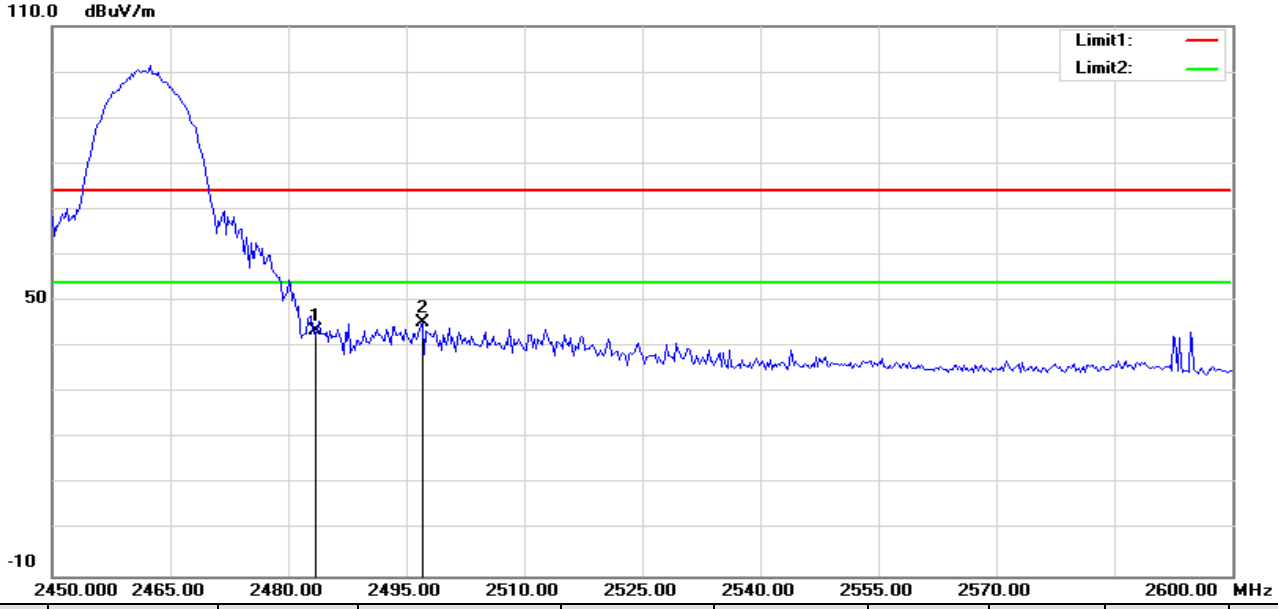
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2388.542	56.36	-8.47	47.89	74.00	-26.11	100	325	peak
2	2390.000	53.76	-8.47	45.29	74.00	-28.71	100	360	peak

RESTRICTED BANDEDGE (b Mode, High Channel, Horizontal)



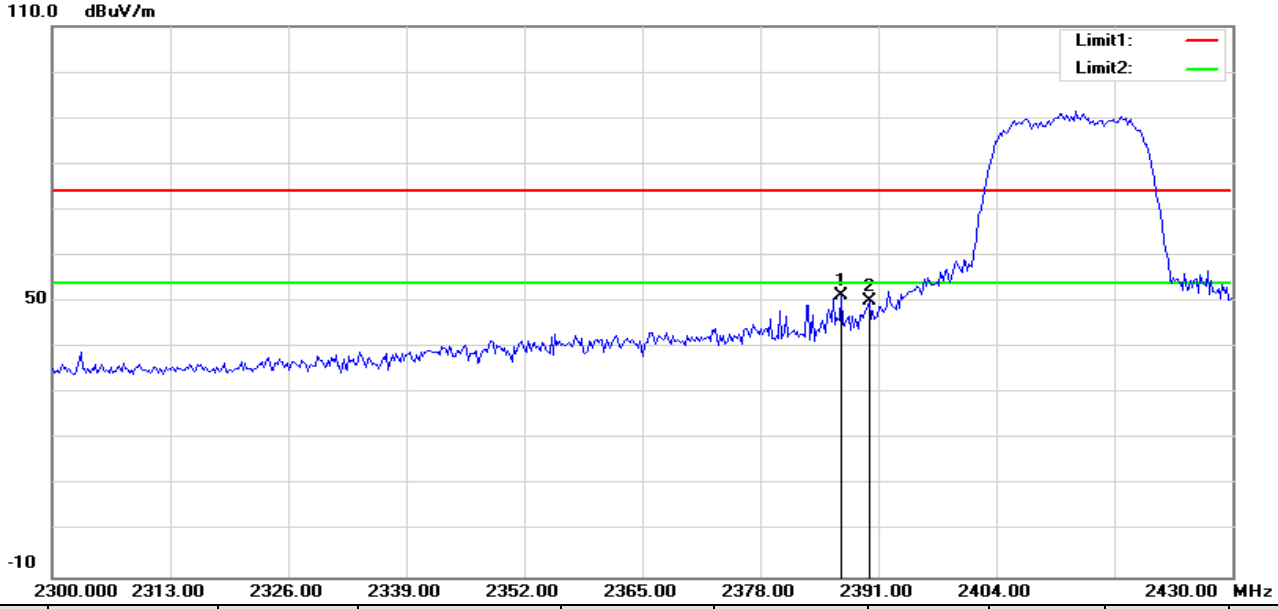
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	52.60	-8.26	44.34	74.00	-29.66	100	331	peak
2	2494.471	53.47	-8.23	45.24	74.00	-28.76	100	160	peak

RESTRICTED BANDEDGE (b Mode, High Channel, Vertical)



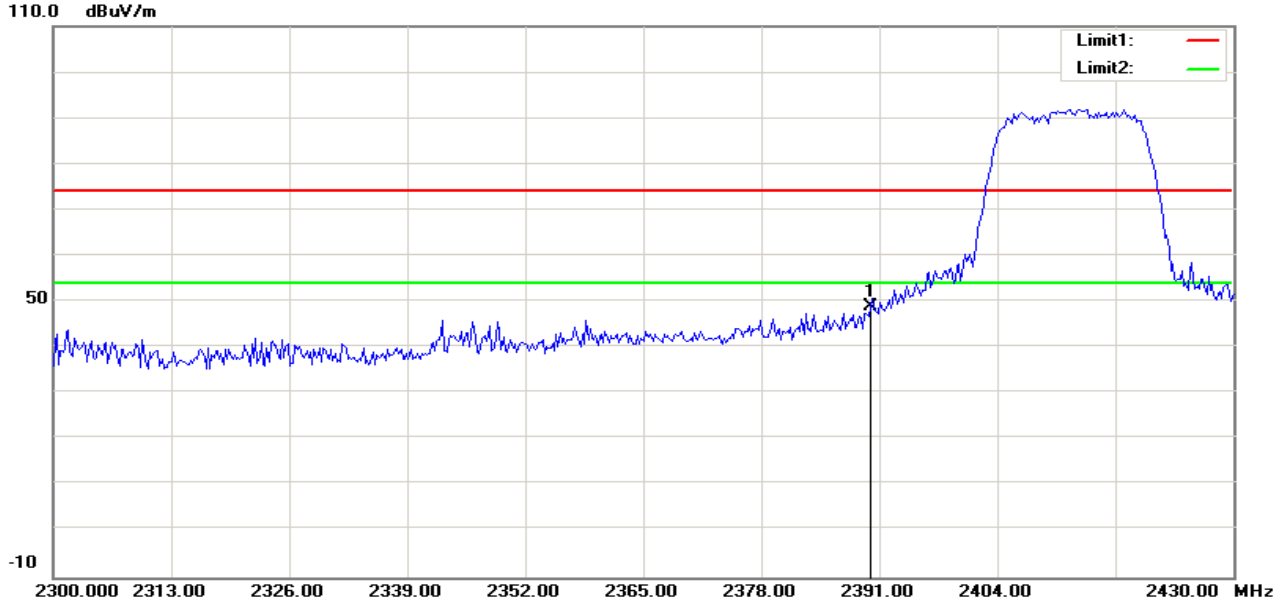
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	51.73	-8.26	43.47	74.00	-30.53	100	331	peak
2	2497.115	53.46	-8.23	45.23	74.00	-28.77	100	335	peak

RESTRICTED BANDEDGE (g Mode, Low Channel, Horizontal)



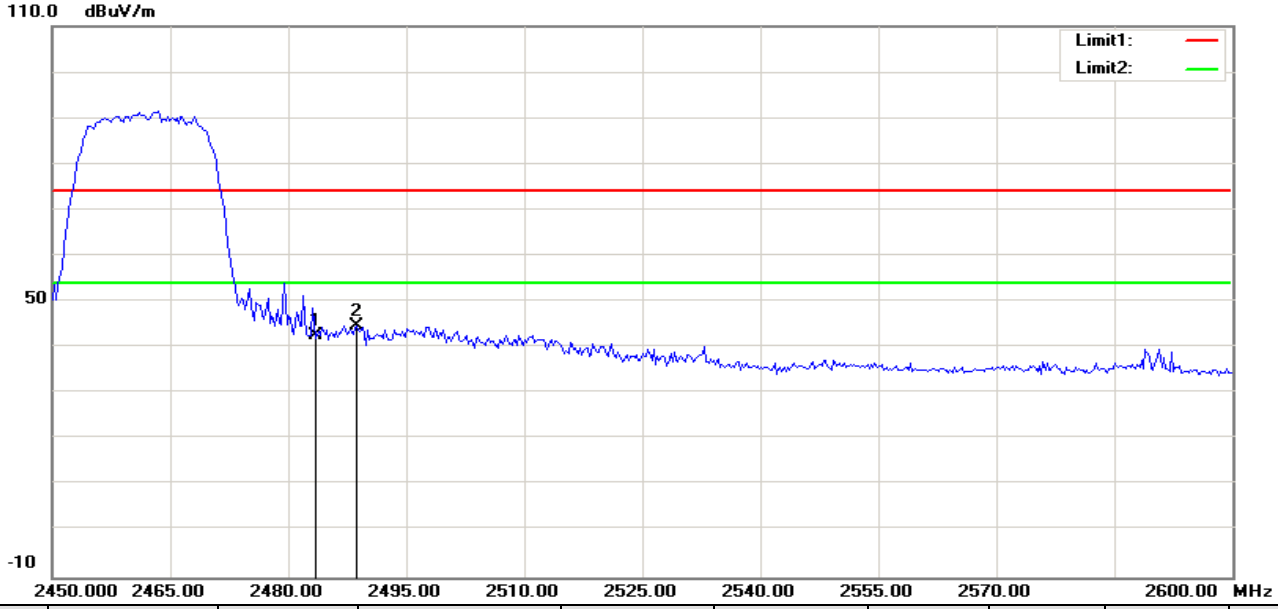
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2386.875	59.93	-8.48	51.45	74.00	-22.55	100	296	peak
2	2390.000	58.66	-8.47	50.19	74.00	-23.81	100	287	peak

RESTRICTED BANDEDGE (g Mode, Low Channel, Vertical)



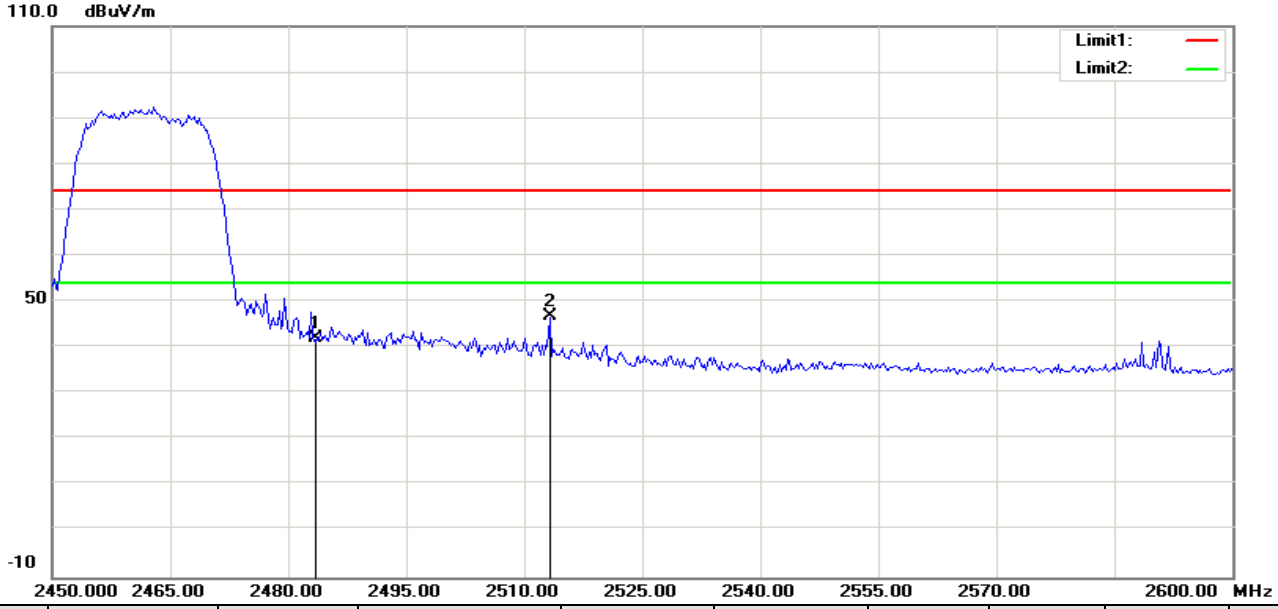
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2390.000	57.53	-8.47	49.06	74.00	-24.94	100	332	peak

RESTRICTED BANDEDGE (g Mode, High Channel, Horizontal)



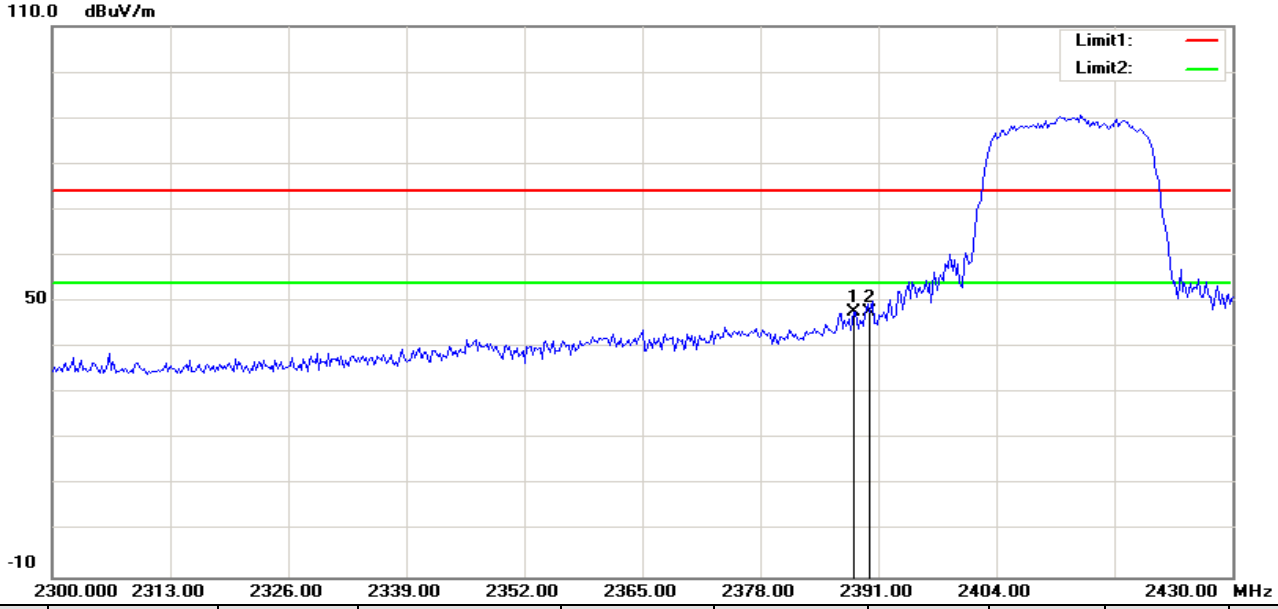
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	51.01	-8.26	42.75	74.00	-31.25	100	172	peak
2	2488.702	53.09	-8.25	44.84	74.00	-29.16	100	250	peak

RESTRICTED BANDEDGE (g Mode, High Channel, Vertical)



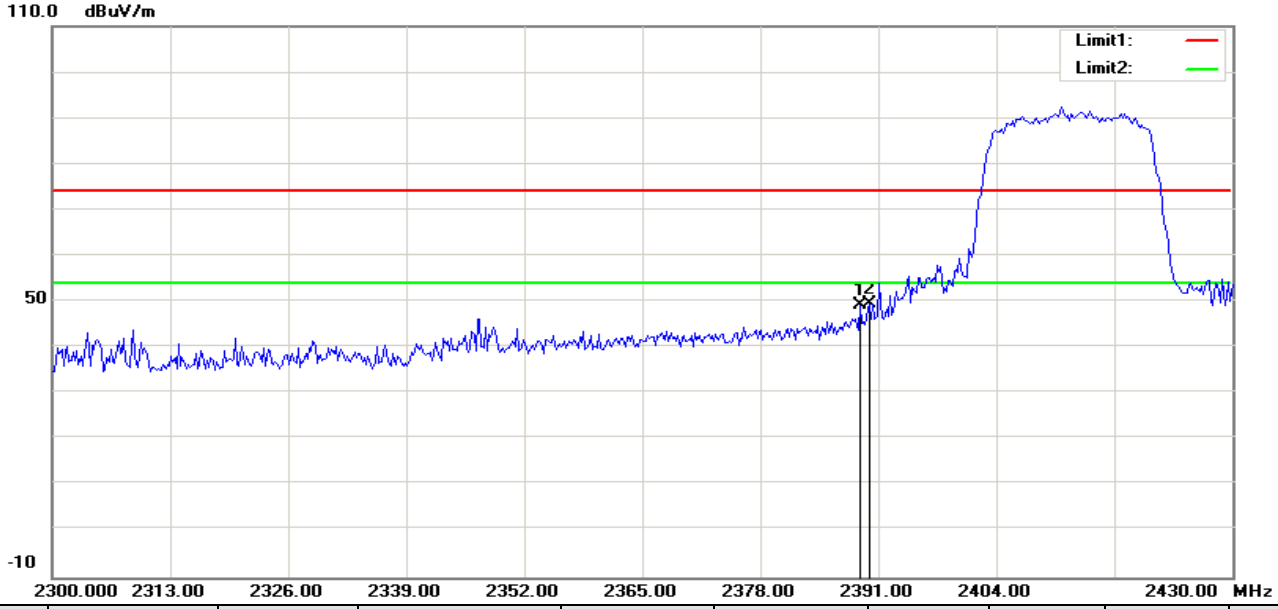
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	2483.500	50.39	-8.26	42.13	74.00	-31.87	100	205	peak
2	2513.221	54.89	-8.19	46.70	74.00	-27.30	100	260	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT20 mode, Low Channel, Horizontal)



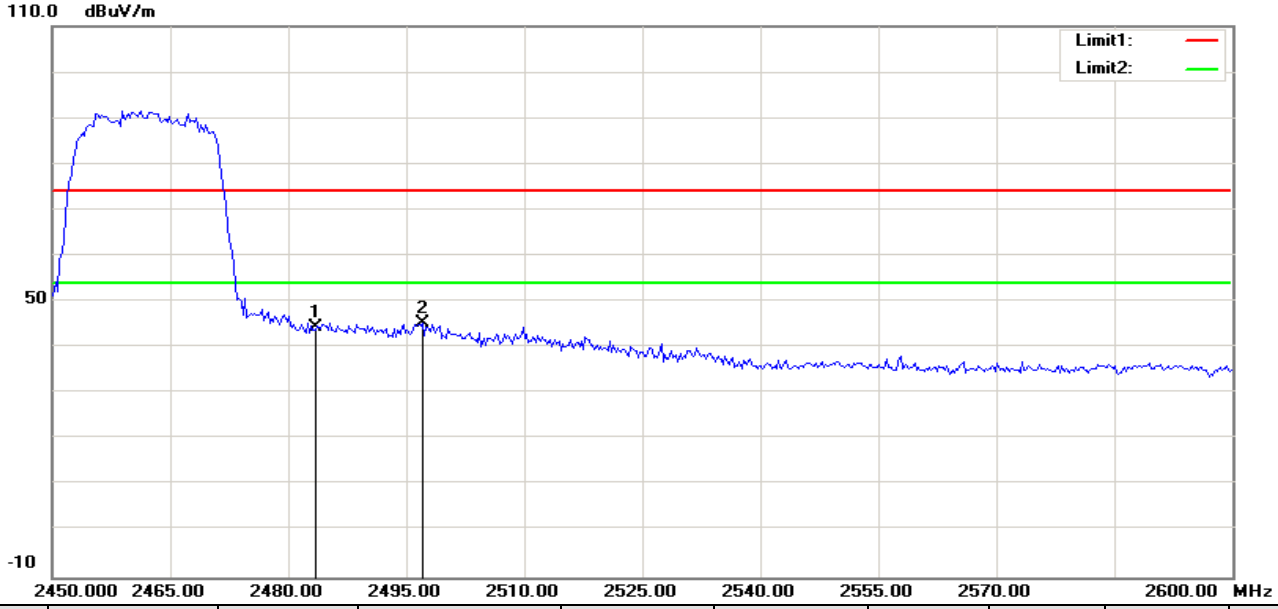
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2388.333	56.20	-8.47	47.73	74.00	-26.27	100	300	peak
2	2390.000	56.13	-8.47	47.66	74.00	-26.34	100	305	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT20 mode, Low Channel, Vertical)



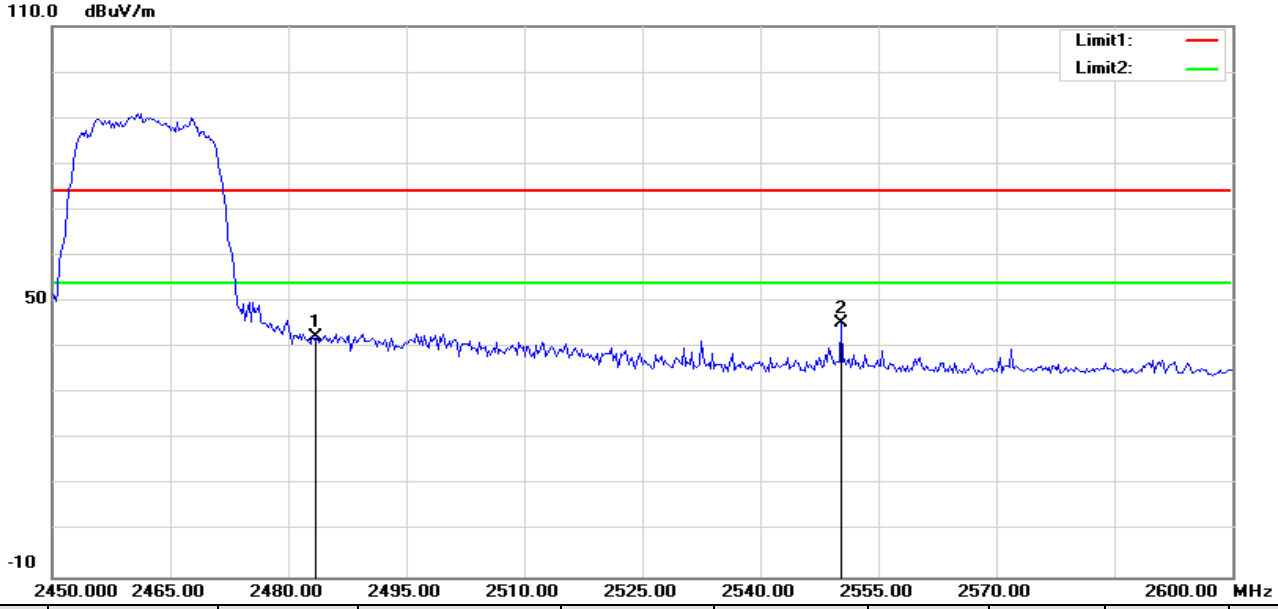
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2388.958	57.82	-8.47	49.35	74.00	-24.65	100	318	peak
2	2390.000	58.14	-8.47	49.67	74.00	-24.33	100	321	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT20 mode, High Channel, Horizontal)



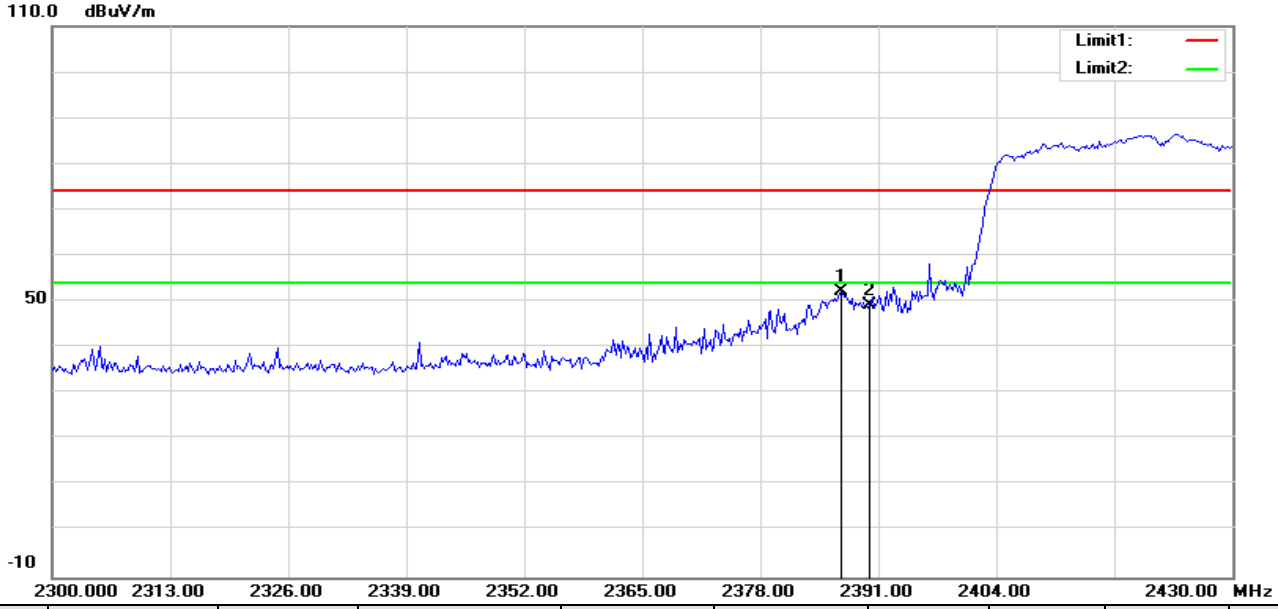
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	52.86	-8.26	44.60	74.00	-29.40	100	121	peak
2	2497.115	53.48	-8.23	45.25	74.00	-28.75	100	125	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT20 mode, High Channel, Vertical)



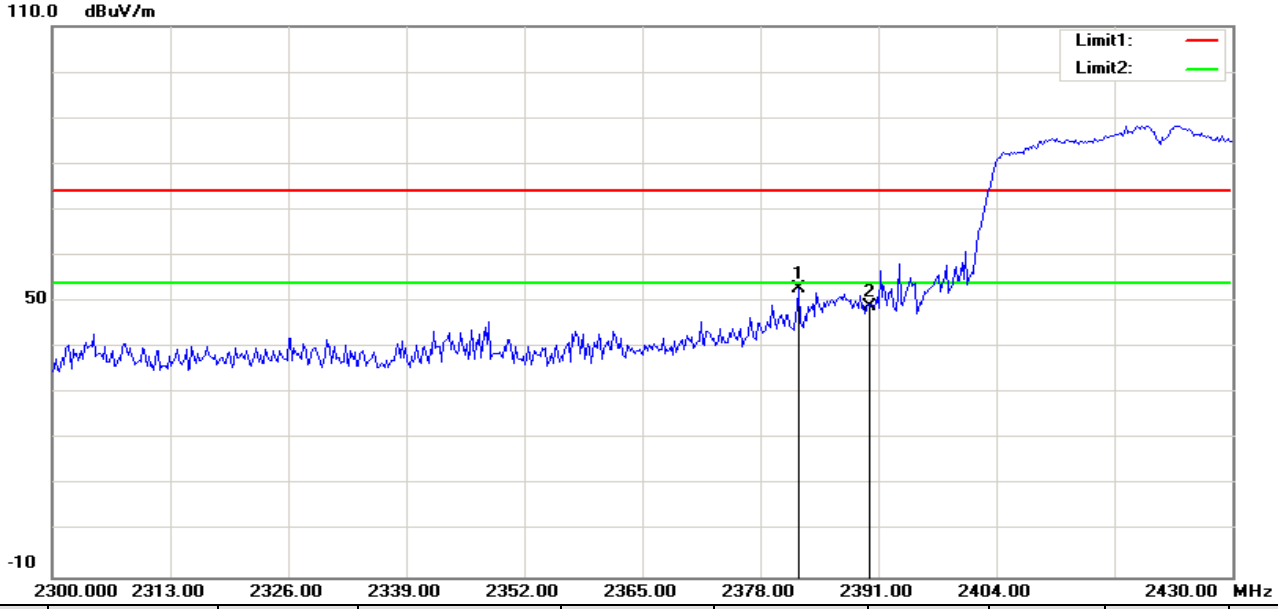
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.50	-8.26	42.24	74.00	-31.76	100	337	peak
2	2550.240	53.60	-8.11	45.49	74.00	-28.51	100	233	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT40 mode, Low Channel, Horizontal)



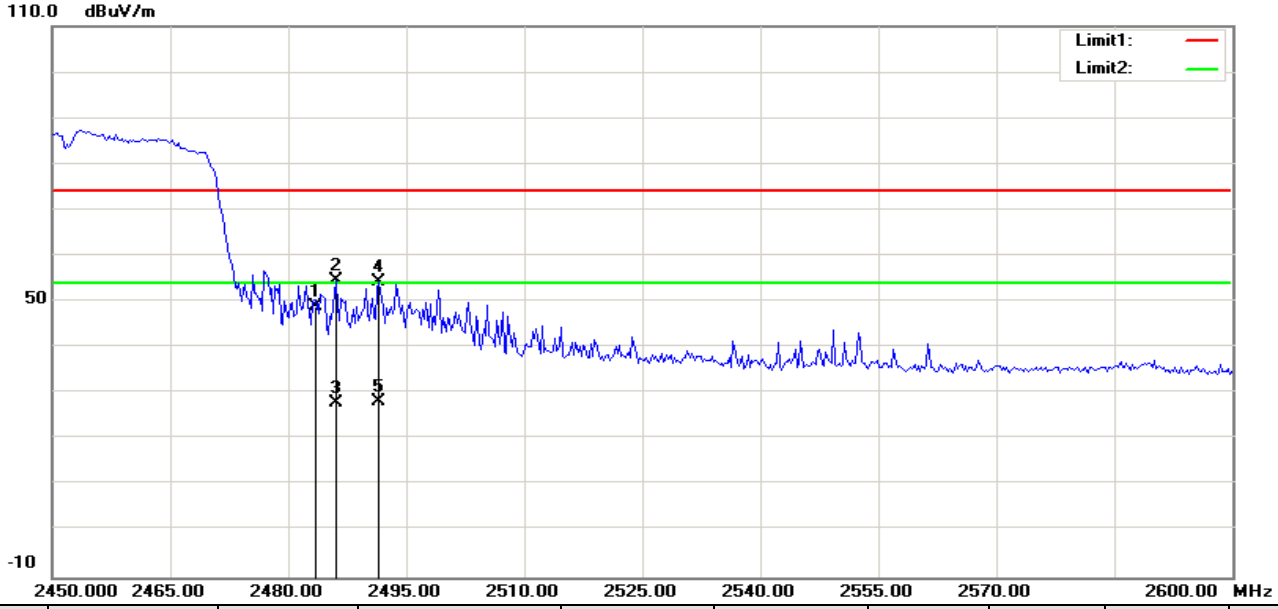
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2386.875	60.63	-8.48	52.15	74.00	-21.85	100	297	peak
2	2390.000	57.86	-8.47	49.39	74.00	-24.61	100	116	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT40 mode, Low Channel, Vertical)



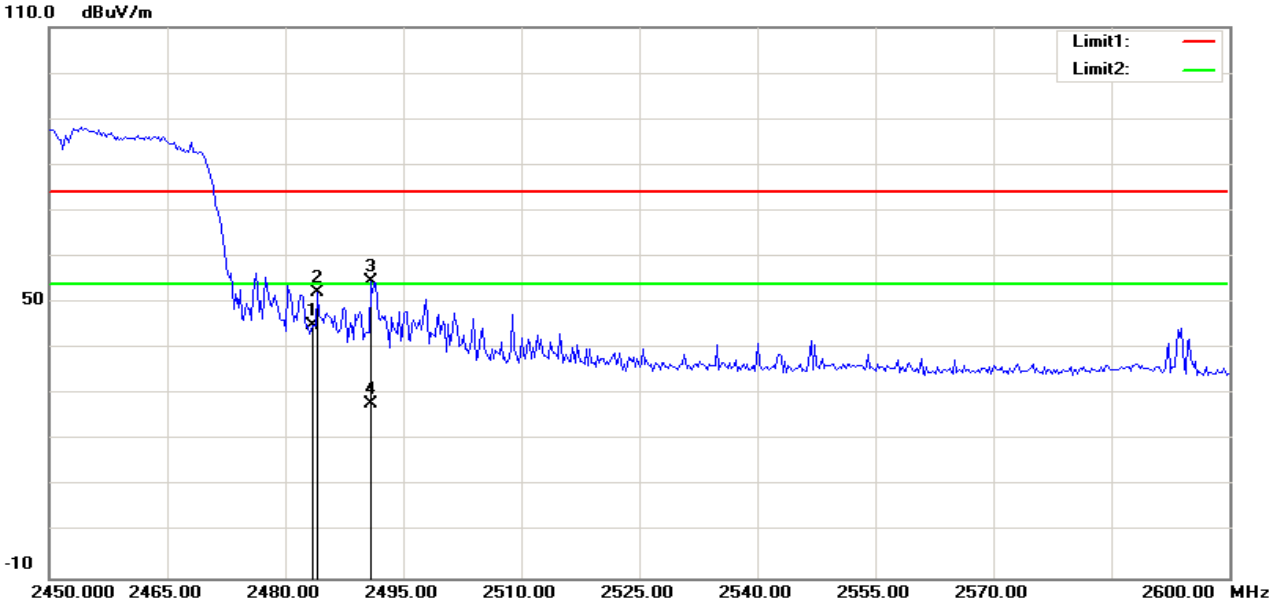
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2382.292	61.38	-8.49	52.89	74.00	-21.11	100	356	peak
2	2390.000	57.54	-8.47	49.07	74.00	-24.93	100	323	peak

RESTRICTED BANDEDGE (IEEE 802.11n HT40 mode, High Channel, Horizontal)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	57.17	-8.26	48.91	74.00	-25.09	100	124	peak
2	2486.058	62.81	-8.25	54.56	74.00	-19.44	100	252	peak
3	2486.058	36.28	-8.25	28.03	54.00	-25.97	130	251	AVG
4	2491.586	62.66	-8.24	54.42	74.00	-19.58	100	121	peak
5	2491.586	36.37	-8.24	28.13	54.00	-25.87	130	117	AVG

RESTRICTED BANDEDGE (IEEE 802.11n HT40 mode, High Channel, Vertical)



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	2483.500	53.25	-8.26	44.99	74.00	-29.01	100	129	peak
2	2484.135	60.38	-8.26	52.12	74.00	-21.88	100	4	peak
3	2490.865	62.83	-8.24	54.59	74.00	-19.41	100	330	peak
4	2490.865	36.09	-8.24	27.85	54.00	-26.15	130	337	AVG

Test Result of Radiated Emission

Below 30MHz

The interference of the frequency value is lower than the limit below 20 db, measured as the background noise values and will not be recorded.

30MHz-1GHz

Operation Mode:	Normal Link	**Test Date:**	2016-7-14
Temperature:	25°C	**Tested by:**	Lily.Wang
Humidity:	48% RH	**Polarity:**	Ver. / Hor.

Frequency (MHz)	Ant. Pol. (H/V)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
55.2200	V	20.45	11.08	31.53	40.00	-8.47	QP
95.9600	V	15.88	11.44	27.32	43.50	-16.18	QP
350.1000	V	11.77	18.48	30.25	46.00	-15.75	QP
494.6300	V	11.47	21.15	32.62	46.00	-13.38	QP
563.5000	V	9.91	21.71	31.62	46.00	-14.38	QP
800.1800	V	5.80	25.45	31.25	46.00	-14.75	QP
95.9600	H	16.88	11.44	28.32	43.50	-15.18	QP
224.9700	H	14.95	16.30	31.25	46.00	-14.75	QP
275.4100	H	16.76	16.49	33.25	46.00	-12.75	QP
350.1000	H	11.77	18.48	30.25	46.00	-15.75	QP
395.6900	H	13.03	20.22	33.25	46.00	-12.75	QP
800.1800	H	7.48	25.45	32.93	46.00	-13.07	QP

Remark:

Measuring frequencies from 30 MHz to the 1GHz (No emission found between lowest internal used/generated frequency to 30 MH).

Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.

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.

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).

Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	53.66	-3.38	50.28	74.00	-23.72	100	305	peak
2	7402.244	42.27	1.69	43.96	74.00	-30.04	100	14	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4814.103	54.35	-3.38	50.97	74.00	-23.03	100	255	peak
2	7647.436	42.17	2.84	45.01	74.00	-28.99	100	27	peak
N/A									

Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	50.02	-3.26	46.76	74.00	-27.24	100	306	peak
2	7674.680	41.83	2.96	44.79	74.00	-29.21	100	333	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	50.11	-3.26	46.85	74.00	-27.15	100	251	peak
2	7647.436	43.20	2.84	46.04	74.00	-27.96	100	0	peak
N/A									

Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4923.077	51.46	-3.13	48.33	74.00	-25.67	100	296	peak
2	7674.680	42.33	2.96	45.29	74.00	-28.71	100	161	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4923.077	50.39	-3.13	47.26	74.00	-26.74	100	247	peak
2	7756.410	42.49	3.35	45.84	74.00	-28.16	100	33	peak
N/A									

Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4868.590	43.89	-3.26	40.63	74.00	-33.37	100	241	peak
2	7538.462	41.85	2.33	44.18	74.00	-29.82	100	260	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4814.103	44.73	-3.38	41.35	74.00	-32.65	100	68	peak
2	7647.436	42.67	2.84	45.51	74.00	-28.49	100	124	peak
N/A									

Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4977.564	43.45	-3.00	40.45	74.00	-33.55	100	5	peak
2	7620.192	41.29	2.71	44.00	74.00	-30.00	100	20	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4732.372	43.70	-3.58	40.12	74.00	-33.88	100	226	peak
2	7565.705	41.47	2.45	43.92	74.00	-30.08	100	330	peak
N/A									

Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4977.564	43.69	-3.00	40.69	74.00	-33.31	100	241	peak
2	7620.192	41.31	2.71	44.02	74.00	-29.98	100	91	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4868.590	43.31	-3.26	40.05	74.00	-33.95	100	60	peak
2	7674.680	43.51	2.96	46.47	74.00	-27.53	100	189	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT20 mode / CH Low **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4814.103	43.49	-3.38	40.11	74.00	-33.89	100	298	peak
2	7674.680	41.37	2.96	44.33	74.00	-29.67	100	267	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4814.103	43.60	-3.38	40.22	74.00	-33.78	100	263	peak
2	7592.949	41.04	2.58	43.62	74.00	-30.38	100	299	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT20 mode / CH Mid **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4841.346	43.47	-3.32	40.15	74.00	-33.85	100	29	peak
2	7674.680	41.55	2.96	44.51	74.00	-29.49	100	316	peak
N/A									

Vertical

No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	4841.346	43.25	-3.32	39.93	74.00	-34.07	100	218	peak
2	7347.756	43.44	1.43	44.87	74.00	-29.13	100	190	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT20 mode / CH High **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4705.128	43.84	-3.64	40.20	74.00	-33.80	100	4	peak
2	7674.680	43.14	2.96	46.10	74.00	-27.90	100	4	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	43.55	-3.13	40.42	74.00	-33.58	100	255	peak
2	7647.436	42.23	2.84	45.07	74.00	-28.93	100	326	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH Low **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4841.346	43.48	-3.32	40.16	74.00	-33.84	100	148	peak
2	7729.167	41.49	3.22	44.71	74.00	-29.29	100	284	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	43.50	-3.13	40.37	74.00	-33.63	100	2	peak
2	7647.436	41.76	2.84	44.60	74.00	-29.40	100	31	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH Mid **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	42.76	-3.13	39.63	74.00	-34.37	100	40	peak
2	7701.923	42.38	3.09	45.47	74.00	-28.53	100	266	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4868.590	43.04	-3.26	39.78	74.00	-34.22	100	246	peak
2	7266.026	42.75	1.05	43.80	74.00	-30.20	100	41	peak
N/A									

Operation Mode: TX / IEEE 802.11n HT40 mode / CH High **Test Date:** 2016-7-21

Temperature: 24°C **Tested by:** Lily.Wang

Humidity: 48 % RH **Polarity:** Ver. / Hor.

Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4923.077	43.82	-3.13	40.69	74.00	-33.31	100	309	peak
2	7647.436	41.96	2.84	44.80	74.00	-29.20	100	93	peak
N/A									

Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	4895.833	44.31	-3.19	41.12	74.00	-32.88	100	244	peak
2	7647.436	42.77	2.84	45.61	74.00	-28.39	100	172	peak
N/A									

7.6.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.

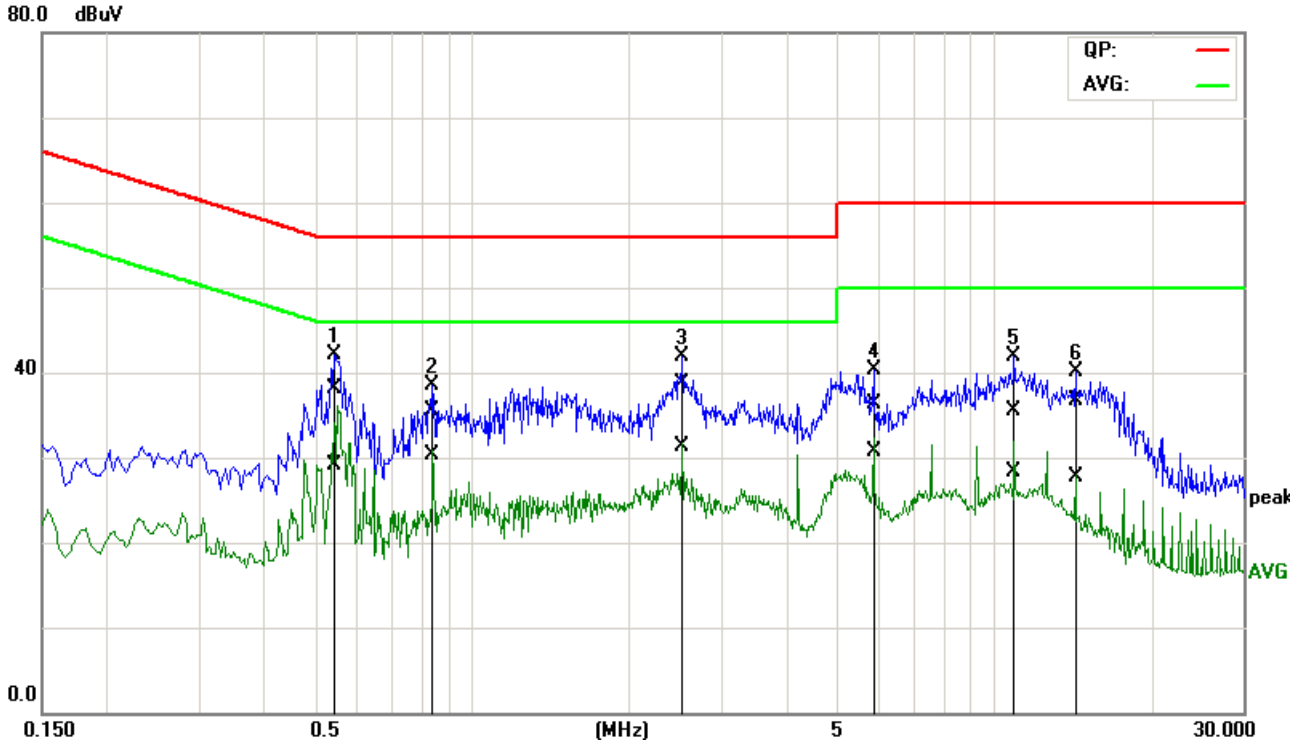
TEST RESULTS

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

Job No.:	C160628R01	Date:	2016-7-22
Model No.:	YHS.1916	Time:	PM 02:23:02
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 120V/60Hz
Model:		Description:	

L1

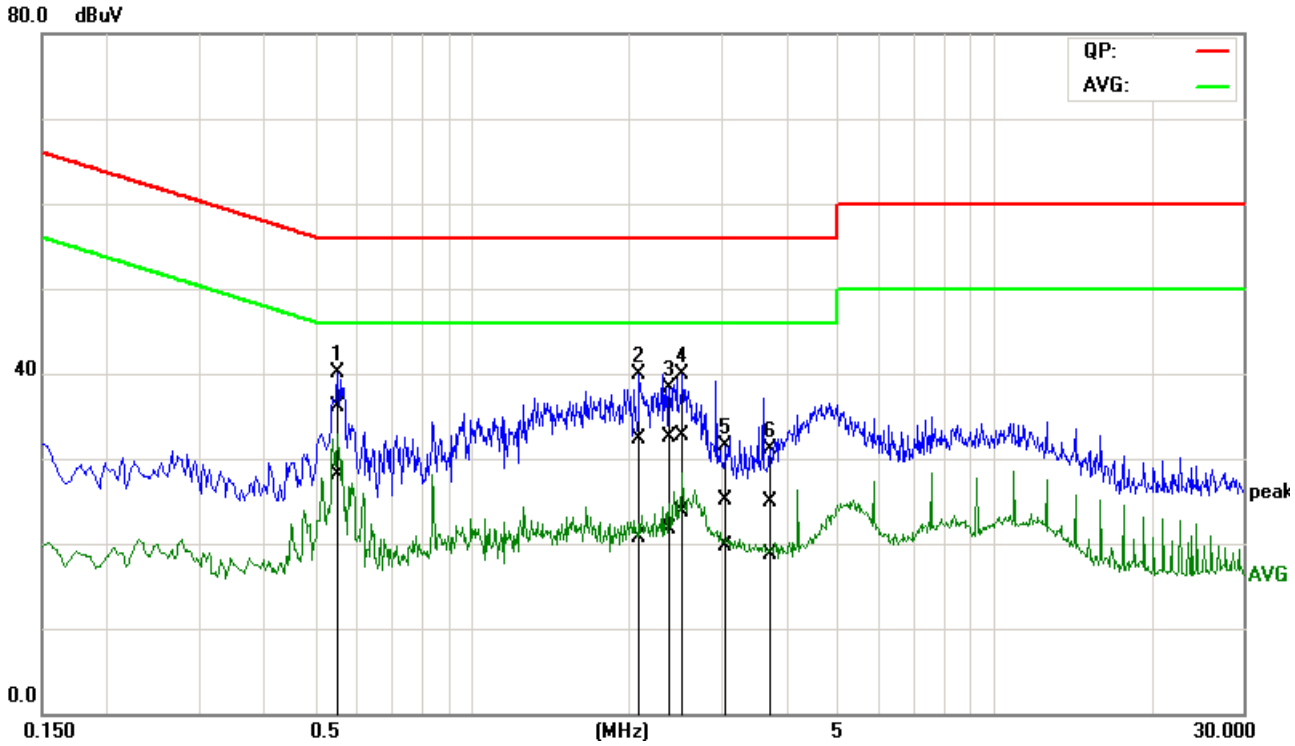


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.5428	18.37	9.31	19.81	38.18	29.12	56.00	46.00	-17.82	-16.88	Pass
2	0.8436	15.72	10.58	19.80	35.52	30.38	56.00	46.00	-20.48	-15.62	Pass
3*	2.5272	18.89	11.52	19.87	38.76	31.39	56.00	46.00	-17.24	-14.61	Pass
4	5.8983	16.44	10.87	19.93	36.37	30.80	60.00	50.00	-23.63	-19.20	Pass
5	10.9561	15.61	8.40	19.97	35.58	28.37	60.00	50.00	-24.42	-21.63	Pass
6	14.3234	16.61	7.60	20.02	36.63	27.62	60.00	50.00	-23.37	-22.38	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Job No.:	C160628R01	Date:	2016-7-22
Model No.:	YHS.1916	Time:	PM 02:27:50
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L2	Test Voltage:	AC 120V/60Hz
Model:		Description:	

L2

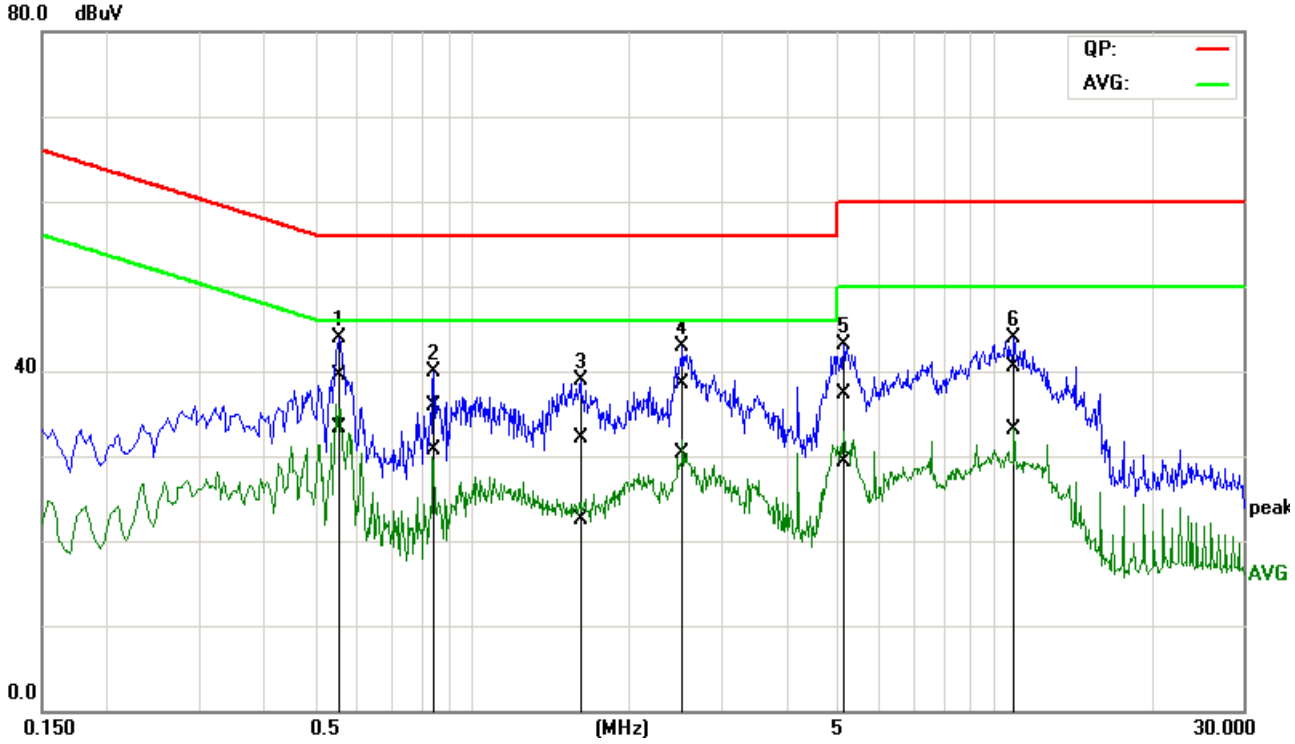


No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.5524	16.45	8.37	19.75	36.20	28.12	56.00	46.00	-19.80	-17.88	Pass
2	2.0846	12.48	0.84	19.77	32.25	20.61	56.00	46.00	-23.75	-25.39	Pass
3	2.3734	12.72	1.88	19.77	32.49	21.65	56.00	46.00	-23.51	-24.35	Pass
4	2.5206	12.99	3.99	19.78	32.77	23.77	56.00	46.00	-23.23	-22.23	Pass
5	3.0183	5.23	-0.06	19.79	25.02	19.73	56.00	46.00	-30.98	-26.27	Pass
6	3.6653	5.17	-1.14	19.80	24.97	18.66	56.00	46.00	-31.03	-27.34	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Job No.:	C160628R01	Date:	2016-7-22
Model No.:	YHS.1916	Time:	PM 02:11:24
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L1	Test Voltage:	AC 240V/60Hz
Model:		Description:	

L1

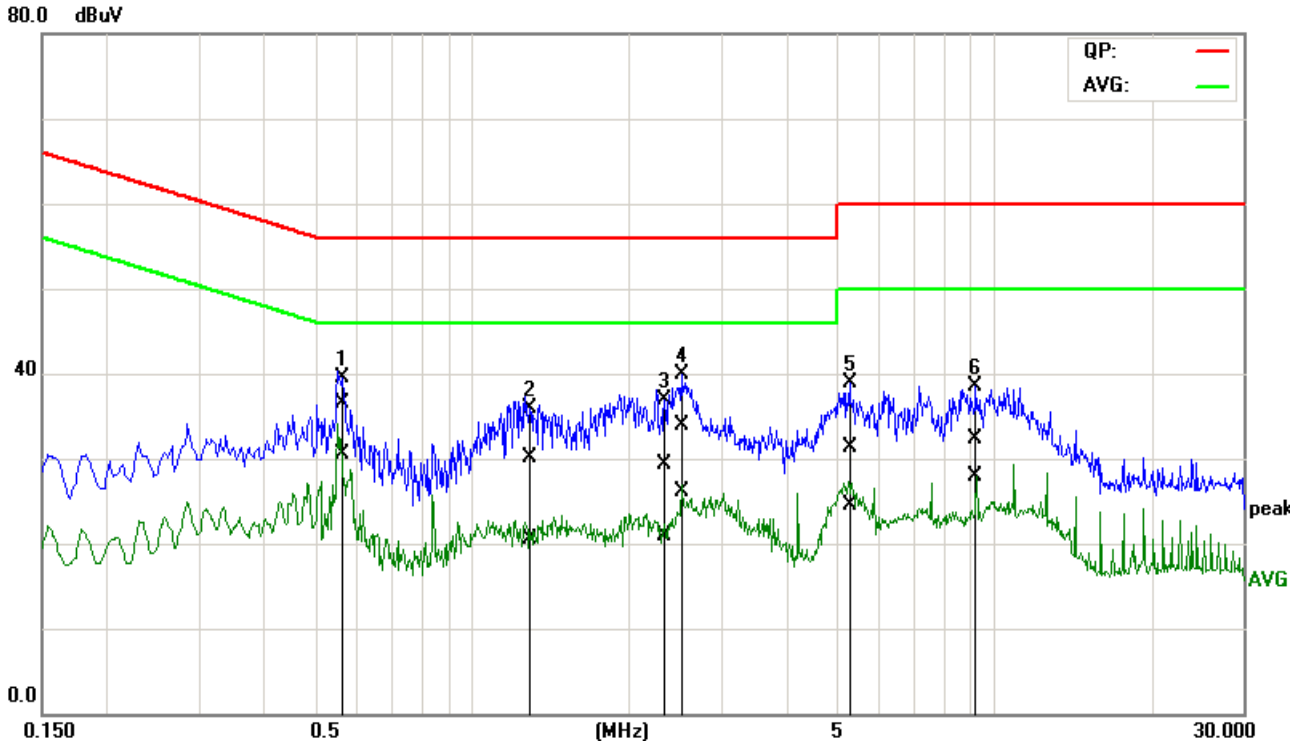


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.5594	19.79	13.57	19.81	39.60	33.38	56.00	46.00	-16.40	-12.62	Pass
2	0.8429	16.13	11.00	19.80	35.93	30.80	56.00	46.00	-20.07	-15.20	Pass
3	1.5988	12.33	2.71	19.82	32.15	22.53	56.00	46.00	-23.85	-23.47	Pass
4	2.5254	18.54	10.46	19.87	38.41	30.33	56.00	46.00	-17.59	-15.67	Pass
5	5.1616	17.44	9.41	19.93	37.37	29.34	60.00	50.00	-22.63	-20.66	Pass
6	10.9574	20.59	13.18	19.97	40.56	33.15	60.00	50.00	-19.44	-16.85	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

Job No.:	C160628R01	Date:	2016-7-22
Model No.:	YHS.1916	Time:	PM 02:17:01
Standard:	FCC Class B	Temp.(C)/Hum.(%):	22(C)/48%
Test item:	Conduction test	Test By:	Lily.Wang
Line:	L2	Test Voltage:	AC 240V/60Hz
Model:		Description:	

L2



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1*	0.5593	16.67	10.80	19.75	36.42	30.55	56.00	46.00	-19.58	-15.45	Pass
2	1.2998	10.34	0.80	19.75	30.09	20.55	56.00	46.00	-25.91	-25.45	Pass
3	2.3101	9.53	1.15	19.77	29.30	20.92	56.00	46.00	-26.70	-25.08	Pass
4	2.5245	14.22	6.25	19.78	34.00	26.03	56.00	46.00	-22.00	-19.97	Pass
5	5.3318	11.42	4.63	19.84	31.26	24.47	60.00	50.00	-28.74	-25.53	Pass
6	9.2669	12.23	7.83	20.08	32.31	27.91	60.00	50.00	-27.69	-22.09	Pass

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

*R*emark:

1.The measuring frequencies range between 0.15 MHz and 30 MHz.

2.The emissions measured in the frequency range between 0.15 MHz and 30MHz were made with an instrument using Quasi-peak detector and Average detector.

3."---" denotes the emission level was or more than 2dB below the Average limit, and no re-check was made.

4.The IF bandwidth of SPA between 0.15MHz and 30MHz was 10KHz. The IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz.

END OF REPORT