



CERTIFICATION TEST REPORT

Report Number. : 11686683-E3V3

Applicant : DIGI INTERNATIONAL INC.
11001 BREN RD. E
MINNETONKA, MN 55343, U.S.A.

Model : SMARTGATEWAY

FCC ID : MCQ-SMARTGTW01

IC : 1846A-SMARTGTW01

EUT Description : DIGI SMART GATEWAY (AT&T)

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS - 247 ISSUE 2

Date Of Issue:
May 17, 2017

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	04/28/2017	Initial Issue	D. Corona
V2	05/05/2017	Updated KDB reference version and removed DFS channels	D. Corona
V3	05/17/2017	Updated Section 2, 3 & 5.3 and EUT Description	D. Corona

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: DIGI WIRELESS DESIGN SERVICES INC.
11001 BREN RD. E
MINNETONKA, MN 55343, U.S.A.

EUT DESCRIPTION: DIGI SMART GATEWAY (AT&T)

MODEL: SMARTGATEWAY

SERIAL NUMBER: F000025 (CONDUCTED), F000026 (RADIATED)

DATE TESTED: APRIL 8 – 26, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-247 Issue 2	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

FCC: The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 14-30, FCC KDB 662911 D01 v02r01, FCC KDB 905462 D02 v01r02/D03 v01r01/D06 v01, FCC KDB 789033 D02 v01r03, FCC KDB 644545 D03 v01, ANSI C63.10-2013.

IC: The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 14-30, FCC KDB 662911 D01 v02r01, FCC KDB 905462 D02 v01r02/D03 v01r01/D06 v01, FCC KDB 789033 D02 v01r03, FCC KDB 644545 D03 v01, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 2.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street		47266 Benicia Street	
☒	Chamber A (IC:2324B-1)	☐	Chamber D (IC:22541-1)
☒	Chamber B (IC:2324B-2)	☐	Chamber E (IC:22541-2)
☐	Chamber C (IC:2324B-3)	☐	Chamber F (IC:22541-3)
		☐	Chamber G (IC:22541-4)
		☐	Chamber H (IC:22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable} \\ &\text{Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. BRIEF DESCRIPTION OF EUT

The EUT (HCGateway) is a connected product that pairs with various sensors over BLE and WLAN, as part of Digi's Cold Chain Solutions. The sensor data and gateway position is transmitted to the cloud over the cellular network.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

NOTE: Covered modes are test reduction modes. The output powers on the "covered modes are equal to or less than the mode referenced and use the same modulation.

5.2GHz Band

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5180 - 5240	802.11a	15.68	36.98
	802.11n HT20	15.63	36.56
5190 - 5230	802.11n HT40	15.37	34.43

5.8GHz Band

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5745 - 5825	802.11a	13.04	20.14
5745 - 5825	802.11n HT20	12.64	18.37
5755 - 5795	802.11n HT40	12.58	18.11

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a dual-band PCB antenna, with a maximum as below:

Frequency (GHz)	Peak Antenna Gain (dBi)
5150-5350	-0.92
5725-5825	-0.96

5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing was Qualcomm Atheros Radio Tool 2 for Internet of Everything (ART2_IoE).

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated bandedge, harmonics, and spurious emissions from 1 GHz to 18GHz were performed. The EUT was set to transmit at the Low/Middle/High channels with designed (target) output powers.

Radiated emission below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT was set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X (Flatbed), Y (Landscape), Z (Portrait), it was determined that Y (Portrait) was worst-case orientations. Therefore, all final radiated testing was performed with the EUT in Y (Portrait) orientation.

Worst-case data rates as provided by the client were:

802.11a mode: 6 Mbps
802.11n HT20 mode: 6.5 Mbps (MCS0)
802.11n HT40 mode: 13.5 Mbps (MCS0)

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	HP	HSTNN-DA25	WCNVH0AAR2Z641	NA
AC/DC Adapter	HP	EliteBook 8570p	N/A	NA
DC Power Supply	Sorensen	XHR 60-18	1308A01936	NA

I/O CABLES (CONDUCTED TEST)

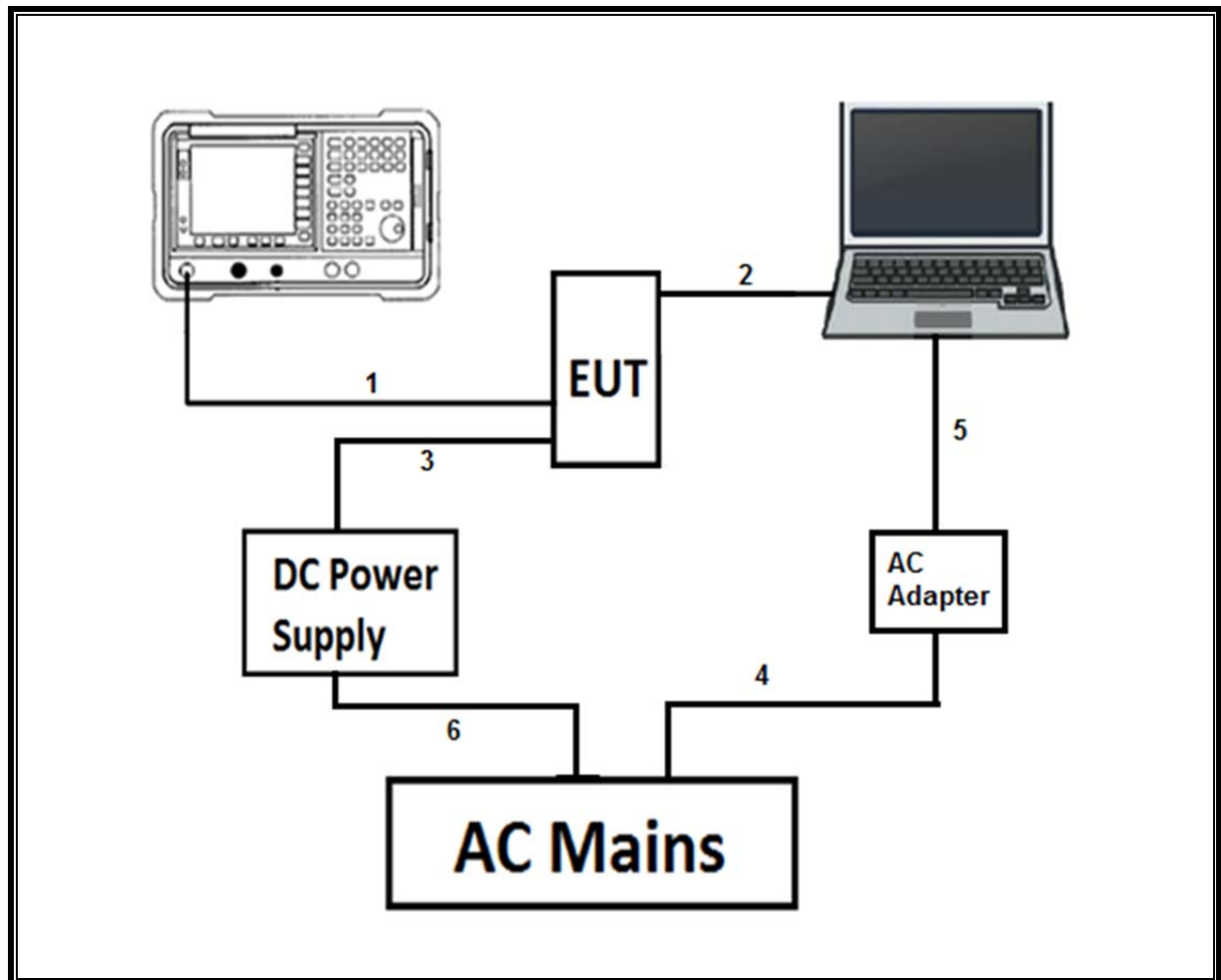
I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Antenna	1	RF	Shielded	0.2	Antenna Port To Spectrum Analyzer
2	MicroUSB	1	USB	Shielded	1	EUT To Laptop
3	DC	1	DC	Shielded	0.1	DC Power Supply To EUT
4	AC	1	AC	Shielded	1	AC Mains To AC Adapter
5	DC	1	DC	Shielded	1	AC/DC To Laptop
6	AC	1	AC	Shielded	1	AC Mains To DC Power Supply

I/O CABLES (RADIATED AND CONDUCTED EMISSIONS)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	DC	Un-Shielded	0.1	DC Power Supply To EUT
2	AC	1	AC	Un-Shielded	1	AC Mains To DC Power Supply

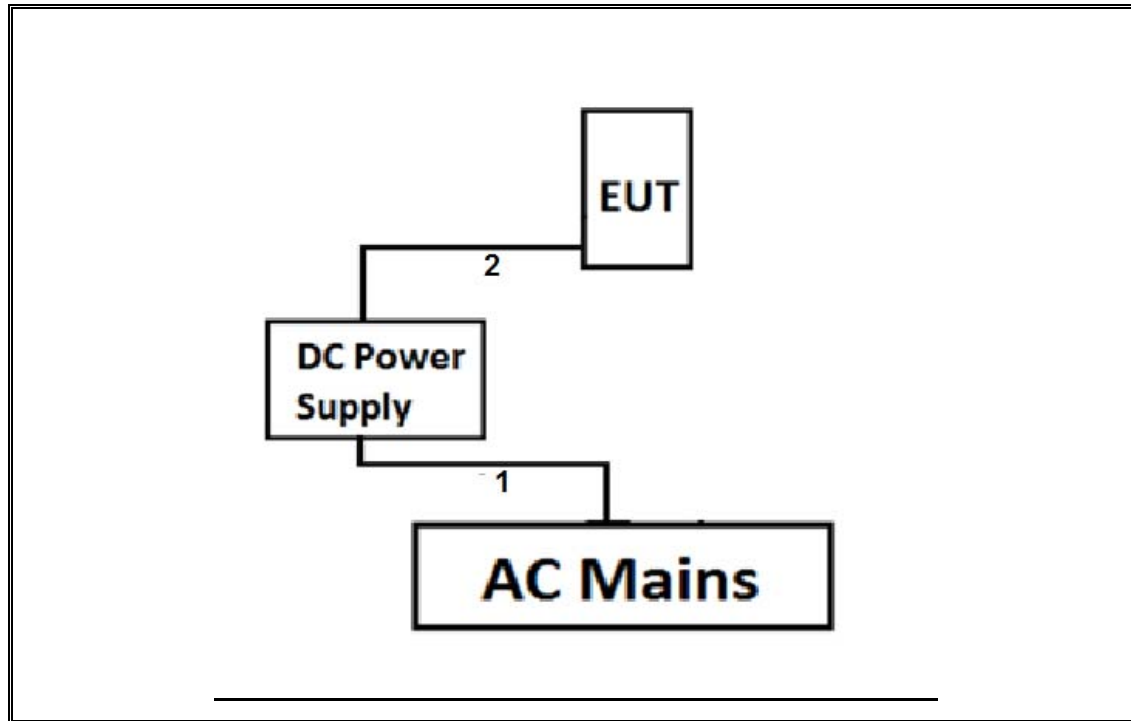
TEST SETUP

CONDCUTED TEST SETUP DIAGRAM



TEST SETUP

RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Antenna, Broadband Hybrid, 30MHz to 2000MHz w/4dB Pad	Sunol Sciences Corp.	JB3	T477	06/22/2017
Antenna, Active Loop 9kHz-30MHz	ETS-Lindgren	6502	T1683	02/17/2018
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T345	03/23/2018
Antenna, Horn 18-26.5GHz	ARA	MWH-1826/B	T449	05/26/2017
Spectrum Analyzer	Agilent (Keysight) Technologies	8564E	T106	09/07/2017
Power Meter, P-series single channel	Agilent (Keysight) Technologies	N1911A	T1264	07/08/2017
Power Sensor, P – series, 50MHz to 18GHz, Wideband	Agilent (Keysight) Technologies	N1921A	T413	06/20/2017
Amplifier, 1-26.5GHz	Agilent (Keysight) Technologies	8449B	T404	07/05/2017
Amplifier, 10kHz-1GHz	Agilent (Keysight) Technologies	8447D	T15	08/26/2017
RF Amplifier	MITEQ	AFS42-00101800-25-S-42	T493	02/15/2018
Spectrum Analyzer, PSA, 3Hz to 26.5GHz	Agilent (Keysight) Technologies	E4440A	T199	07/22/2017
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T907	01/23/2018
Spectrum Analyzer, PSA, 3Hz to 26.5GHz	Agilent (Keysight) Technologies	E9030A	T905	01/11/2018

NOTE: *testing is completed before equipment calibration expiration date.

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2016
Antenna Port Software	UL	UL RF	Ver 6.5, Apr 21, 2017

7. MEASUREMENT METHODS

6 dB BW: KDB 558074 D01 v03r05, Section 8.1.

26 dB Emission BW: KDB 789033 D02 v01r03, Section C.

99% Occupied BW: KDB 789033 D02 v01r03, Section D.

Conducted Output Power: KDB 789033 D02 v01r03, Section E.3.b (Method PM-G) and KDB 662911 D01 v02r01.

Power Spectral Density: KDB 789033 D02 v01r03, Section F and KDB 662911 D01 v02r01.

Unwanted emissions in restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v01r03, Sections G.3, G.4, and G.5.

8. SUMMARY TABLE

FCC Part Section	RSS Section	Test Description	Test Limit	Test Condition	Test Result
§15.407 (a)	RSS-247	Occupied Band width (26dB)	N/A	Conducted	Pass
§15.407	RSS-247 6.2.4	6dB Band width (5.8GHz)	>500KHz		Pass
§15.407 (a)(1)	RSS-247 6.2	TX Cond. Power 5.15-5.25 GHz	<24dBm (FCC) / <23 dBm EIRP or <10+10Log(99% BW) EIRP (IC)		Pass
§15.407 (a)(2)	RSS-247 6.2	TX Cond. Power 5.25-5.35 & 5.47-5.725 GHz	<24dBm or <11+10log (OBW) (FCC) / <24 dBm or <11+10Log(99% BW) (IC)		Pass
§15.407 (a)(3)	RSS-247 6.2.4	TX Cond. Power 5.725-5.850 GHz	<30dBm		Pass
§15.407 (a)(1)	RSS-247 6.2	PSD (5.15-5.25 GHz)	<11dBm/MHz (FCC) <10 dBm/MHz EIRP (IC)		Pass
§15.407 (a)(2)	RSS-247 6.2	PSD (5.3,5.5GHz)	<11dBm/MHz		Pass
§15.407 (a)(3)	RSS-247 6.2.4	PSD (5.8GHz)	<30dBm per 500kHz		Pass
§15.207 (a) §15.407(b) (6)	RSS-GEN 8.8	AC Power Line conducted emissions	Section 10		Pass
§15.407 (b) & 15.209	RSS-GEN 8.9/7	Radiated Spurious Emission	<54dBuV/m	Radiated	Pass

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

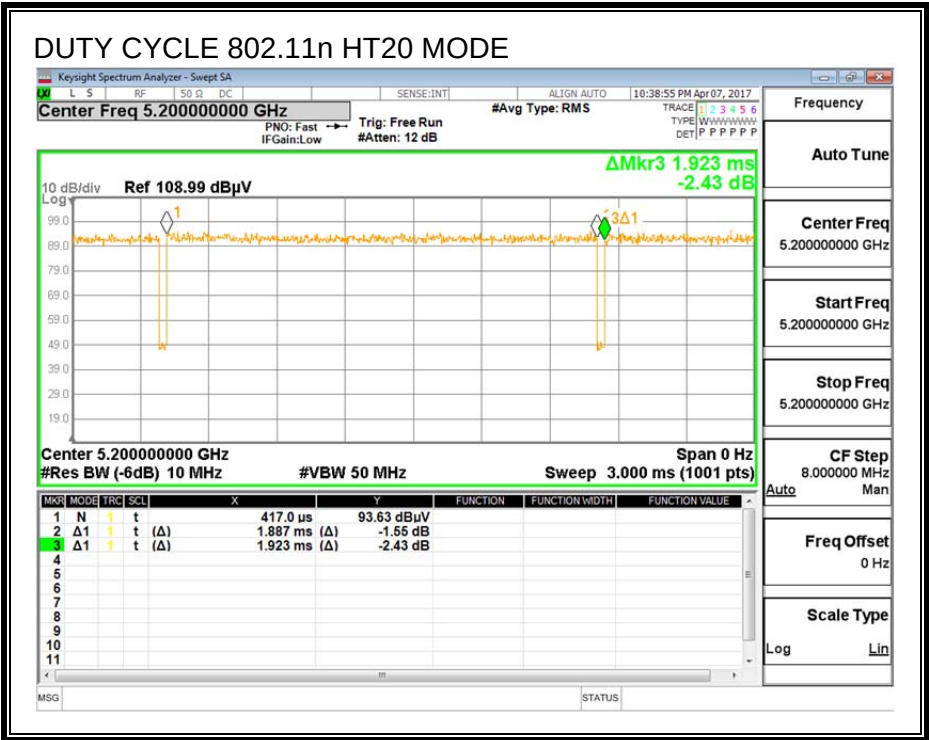
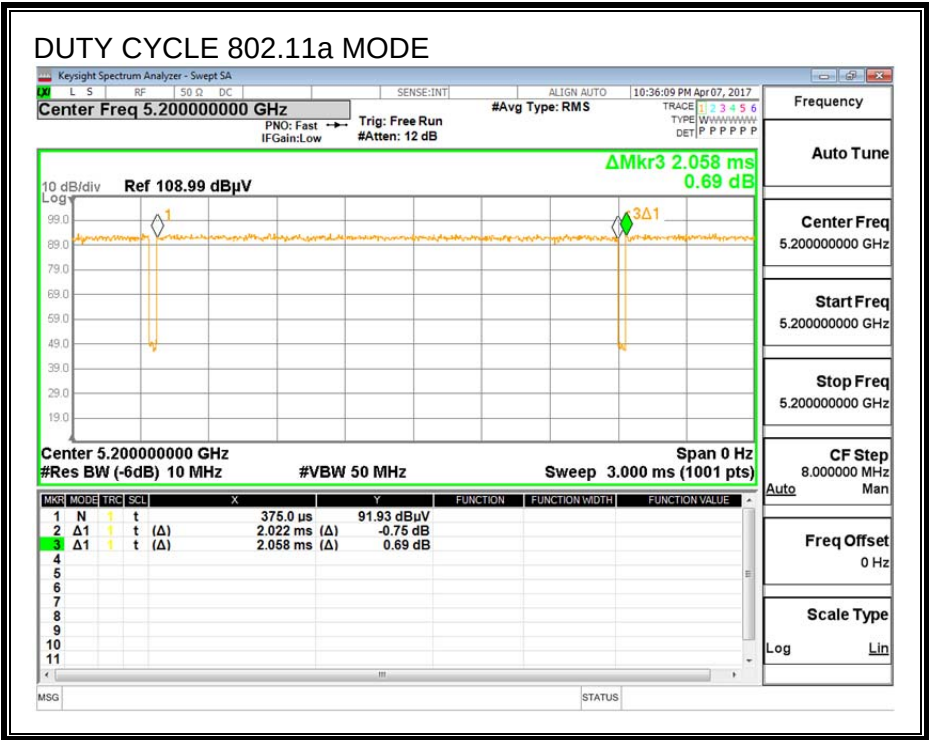
PROCEDURE

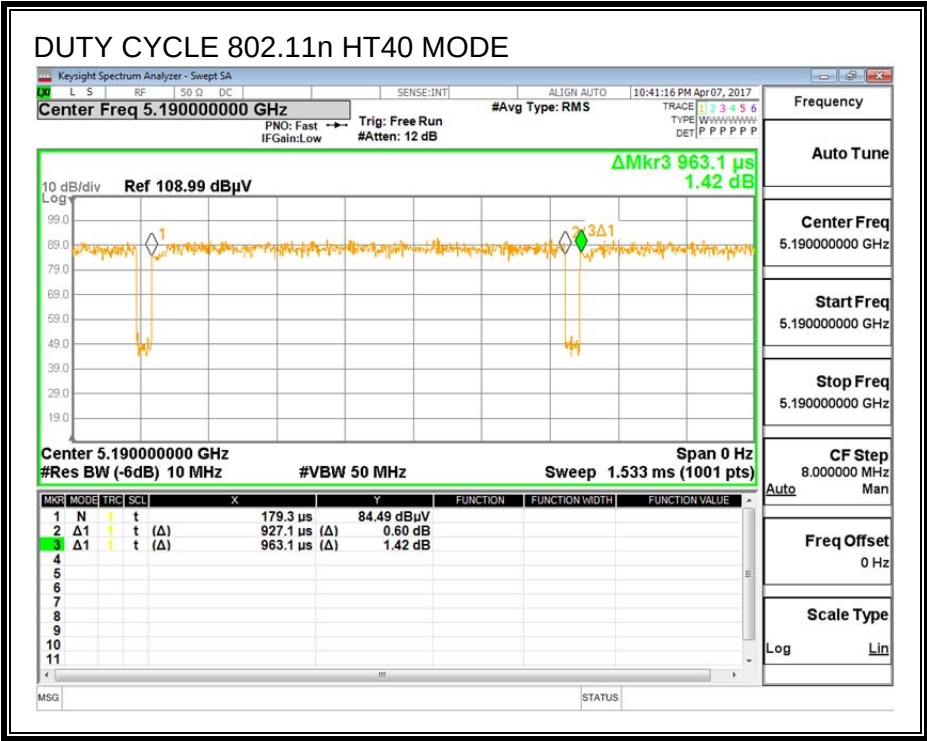
KDB 789033 Zero-Span Spectrum Analyzer Method.

RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11a	2.022	2.058	0.983	98.3%	0.00	0.010
802.11n HT20	1.887	1.923	0.981	98.1%	0.00	0.010
802.11n HT40	0.927	0.963	0.963	96.3%	0.17	1.079

DUTY CYCLE PLOTS





9.2. 11a MODE IN THE 5.2GHz BAND

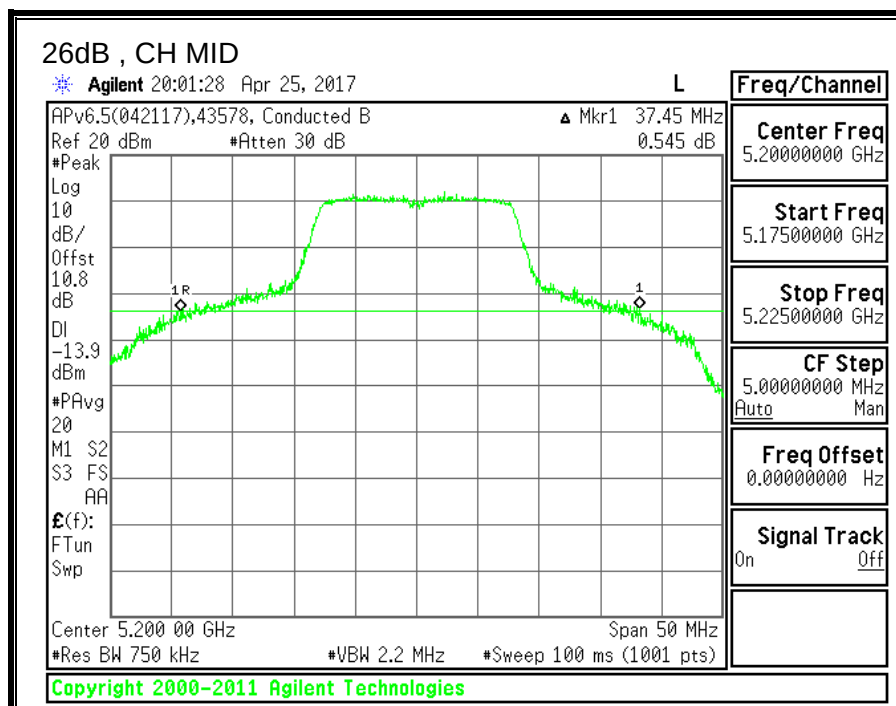
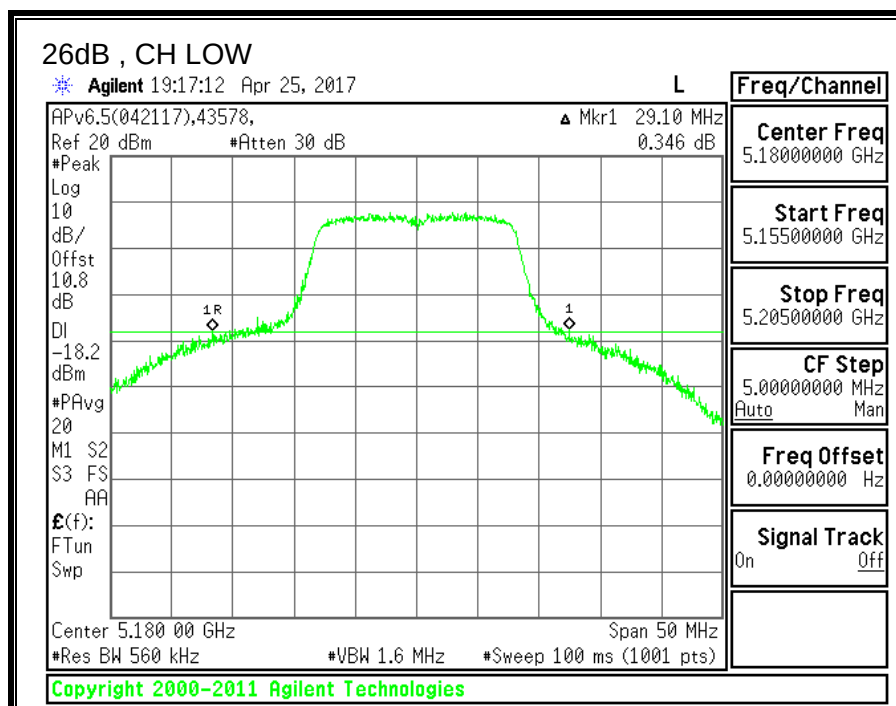
9.2.1. 26 dB BANDWIDTH

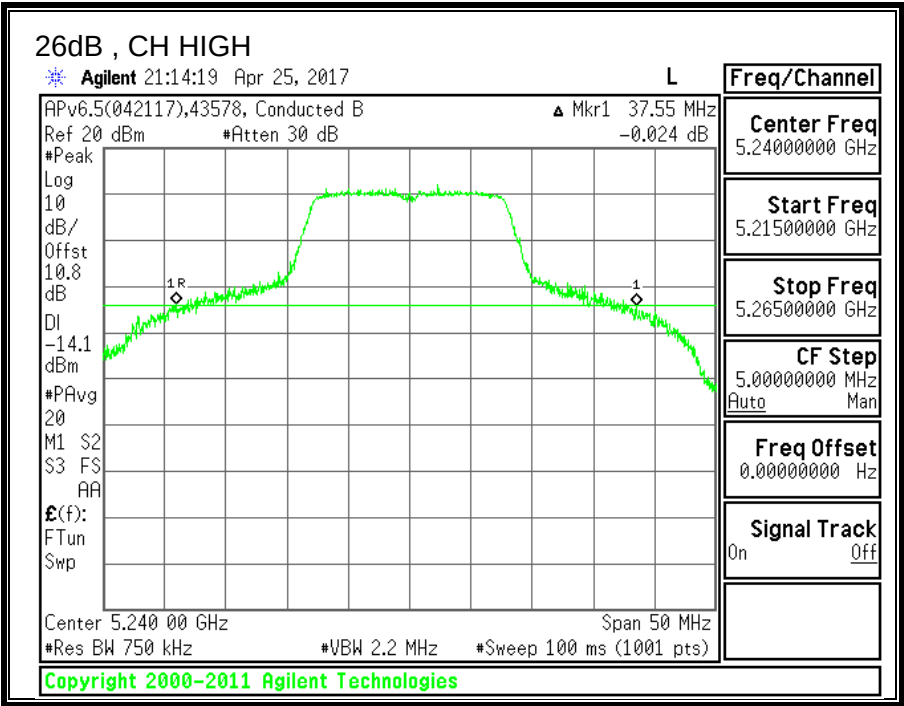
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW (MHz)
Low	5180	29.10
Mid	5200	37.45
High	5240	37.55





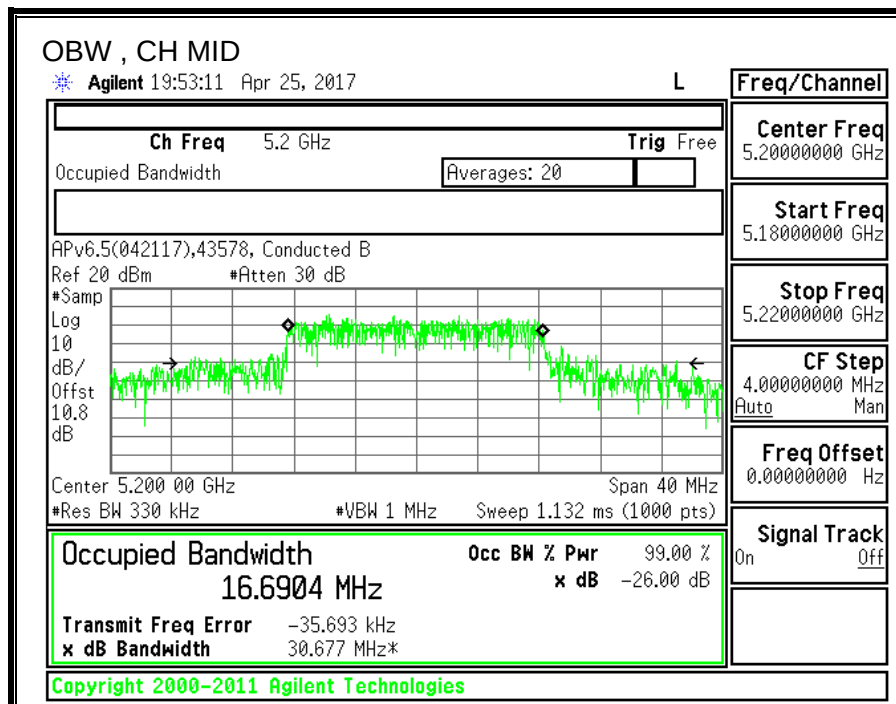
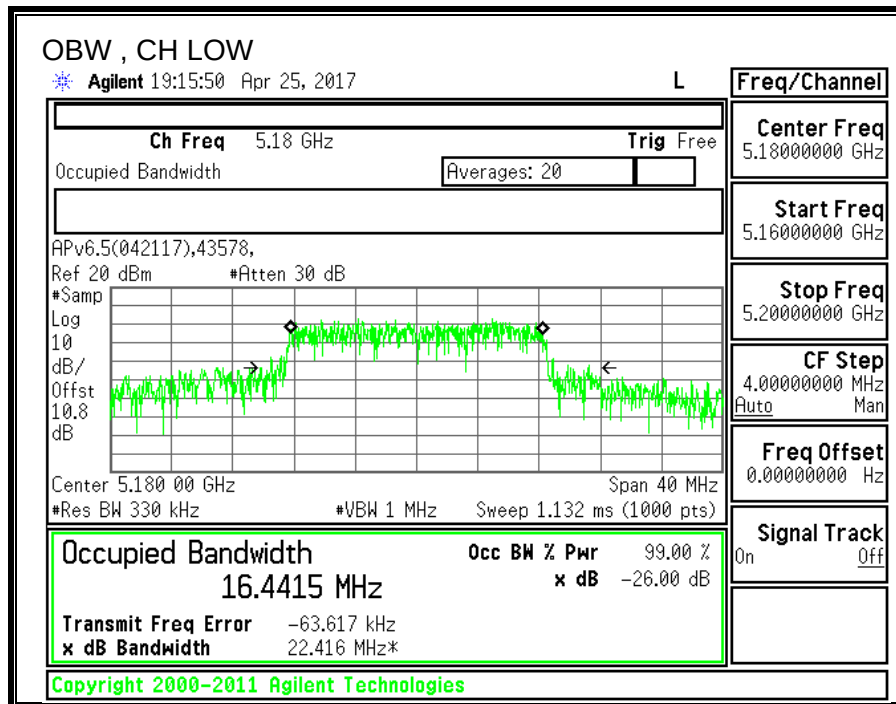
9.2.2. 99% BANDWIDTH

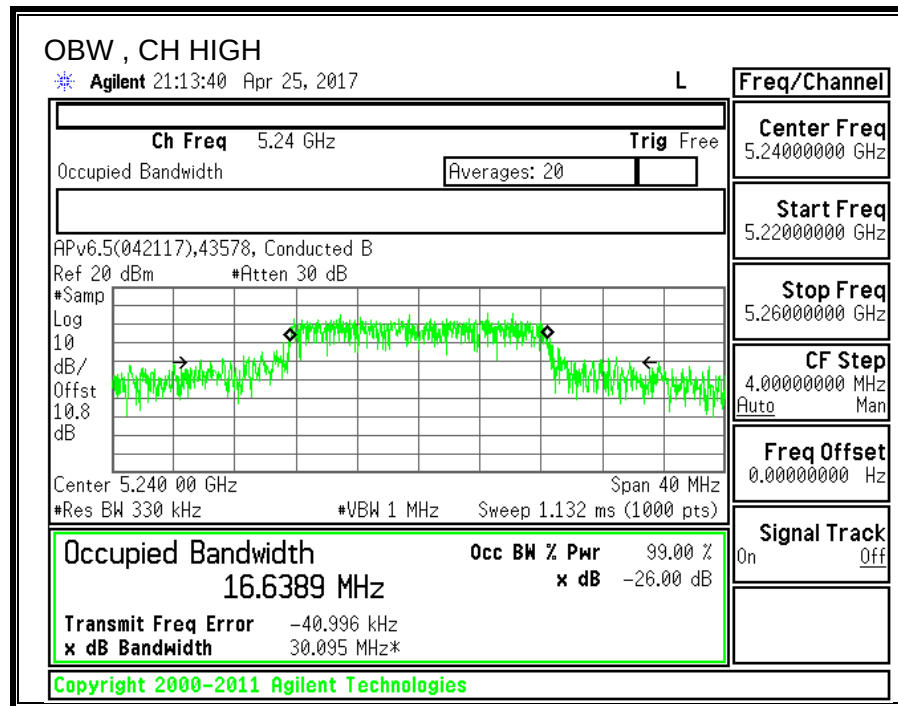
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5180	16.4415
Mid	5200	16.6904
High	5240	16.6389





9.2.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.1) (1)

The maximum EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5180	29.10	16.4415	-0.92	-0.92
Mid	5200	37.45	16.6904	-0.92	-0.92
High	5240	37.55	16.6389	-0.92	-0.92

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	24.00	22.16	23.08	23.08	11.00	10.00	10.92
Mid	5200	24.00	22.22	23.14	23.14	11.00	10.00	10.92
High	5240	24.00	22.21	23.13	23.13	11.00	10.00	10.92

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PPSP
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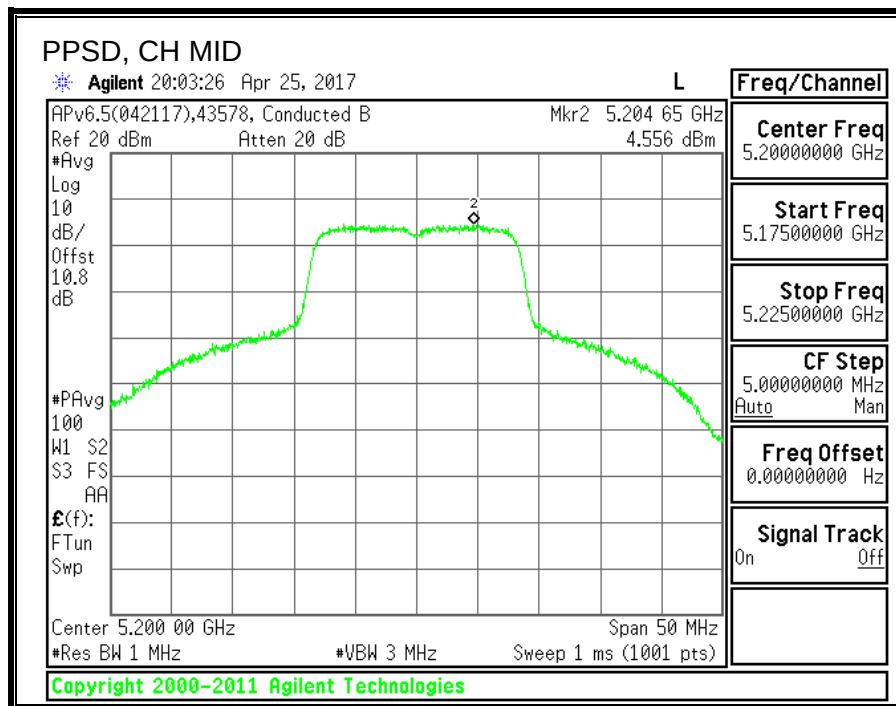
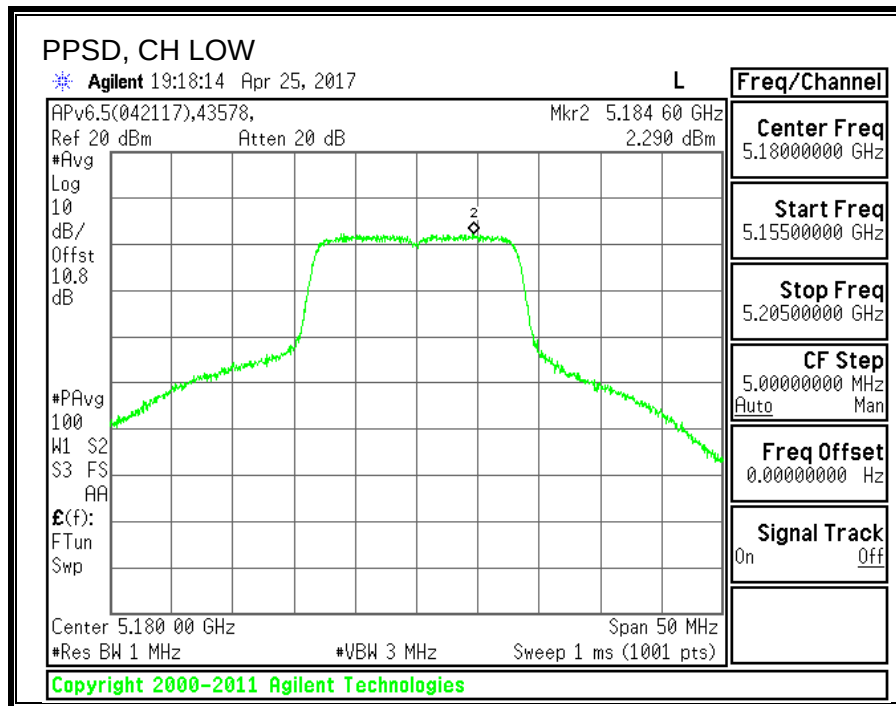
Output Power Results

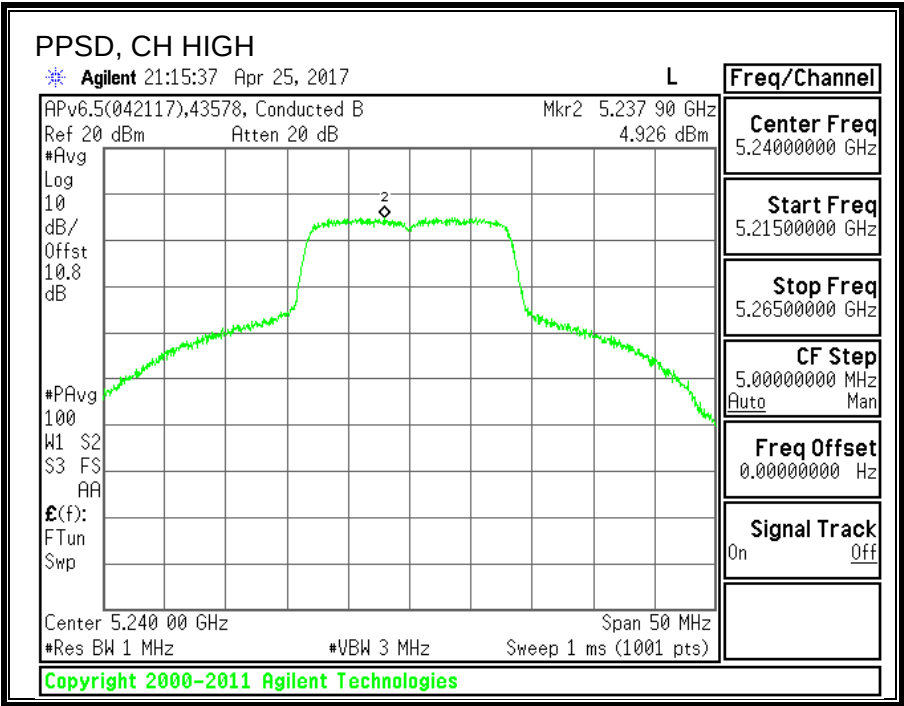
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	13.15	13.15	23.08	-9.93
Mid	5200	15.34	15.34	23.14	-7.80
High	5240	15.68	15.68	23.13	-7.45

PPSD Results

Channel	Frequency (MHz)	Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	2.290	2.290	10.92	-8.63
Mid	5200	4.556	4.556	10.92	-6.36
High	5240	4.926	4.926	10.92	-5.99

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.





9.3. 11n HT20 MODE IN THE 5.2GHz BAND

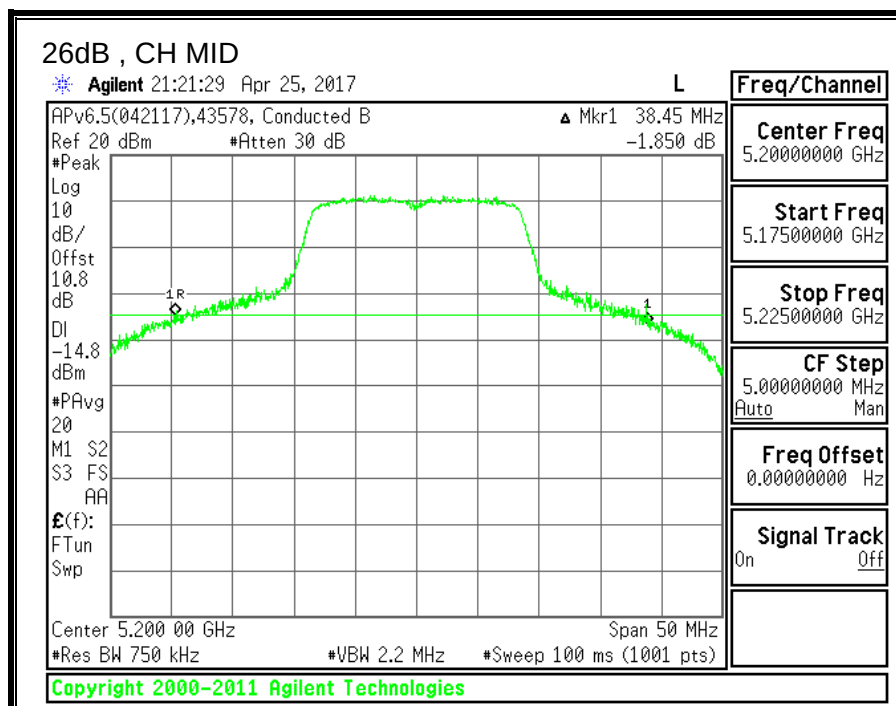
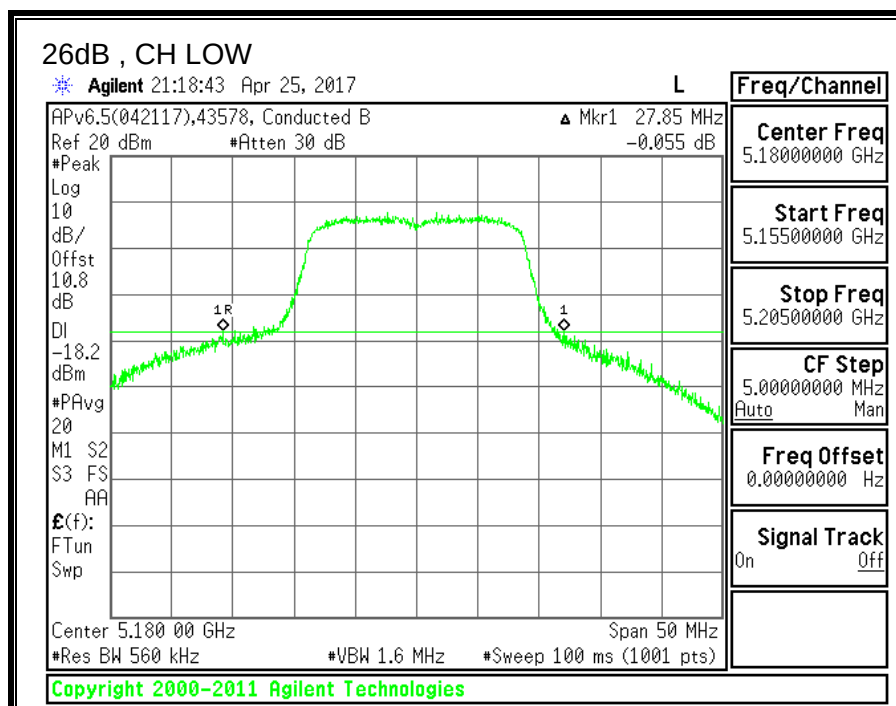
9.3.1. 26 dB BANDWIDTH

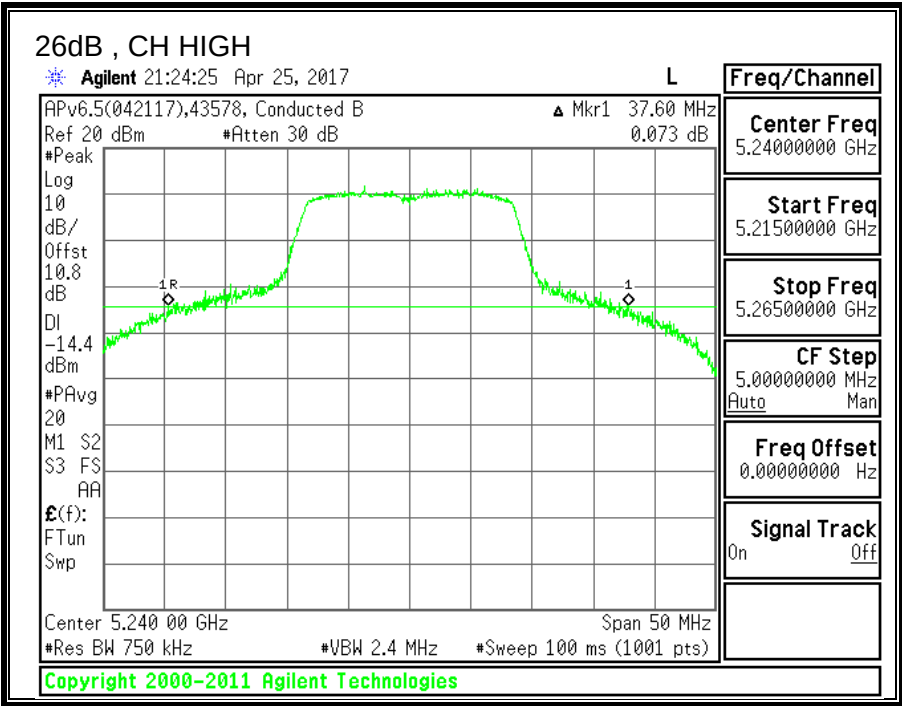
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW (MHz)
Low	5180	27.85
Mid	5200	38.45
High	5240	37.60





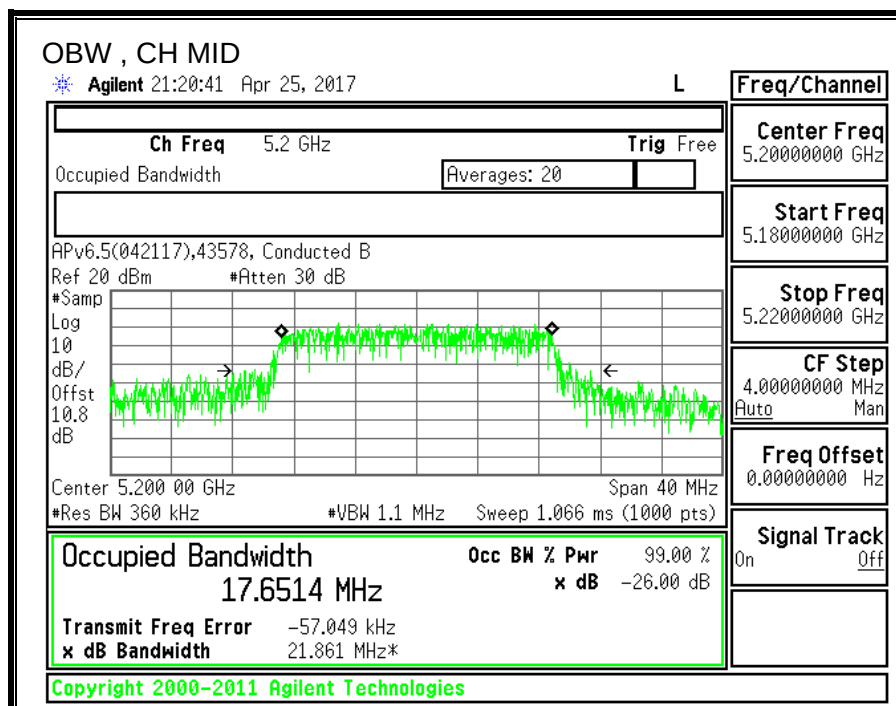
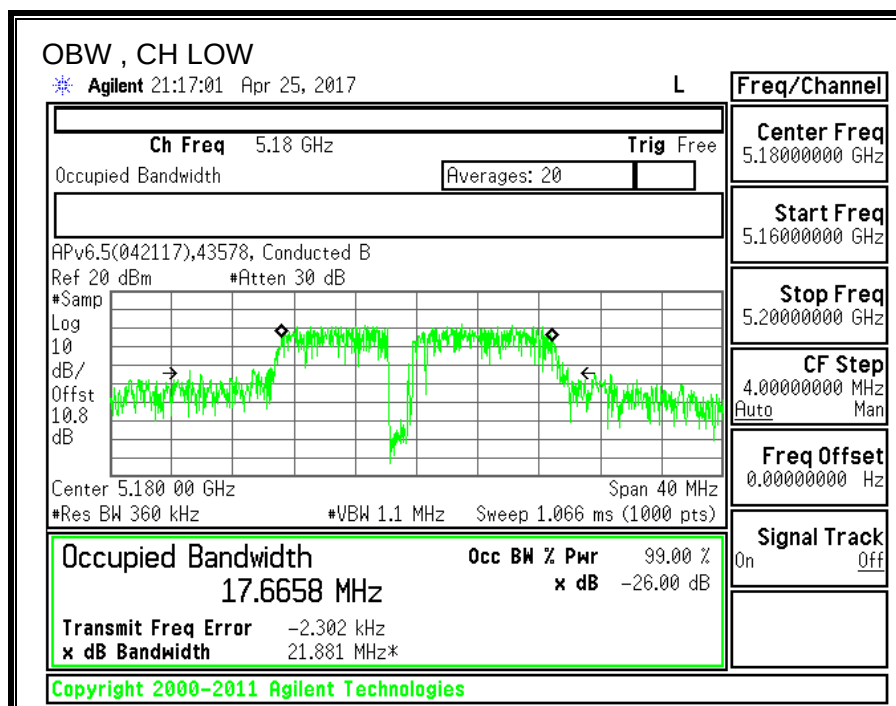
9.3.2. 99% BANDWIDTH

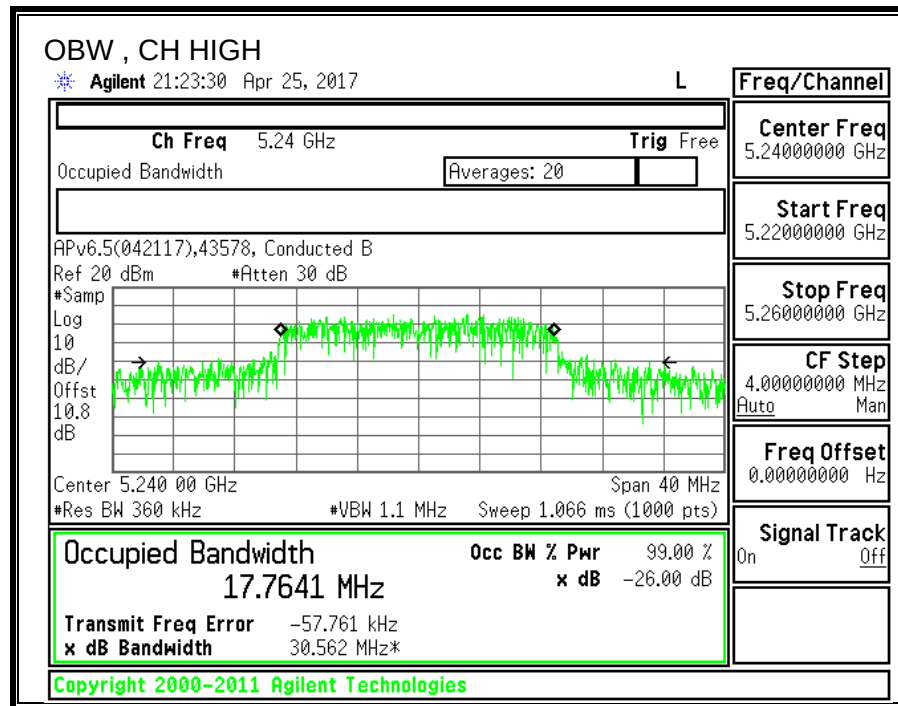
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5180	17.6658
Mid	5200	17.6514
High	5240	17.7641





9.3.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.1) (1)

The maximum EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5180	27.85	17.6658	-0.92	-0.92
Mid	5200	38.45	17.6514	-0.92	-0.92
High	5240	37.60	17.7641	-0.92	-0.92

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	24.00	22.47	23.39	23.39	11.00	10.00	10.92
Mid	5200	24.00	22.47	23.39	23.39	11.00	10.00	10.92
High	5240	24.00	22.50	23.42	23.42	11.00	10.00	10.92

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PPSD
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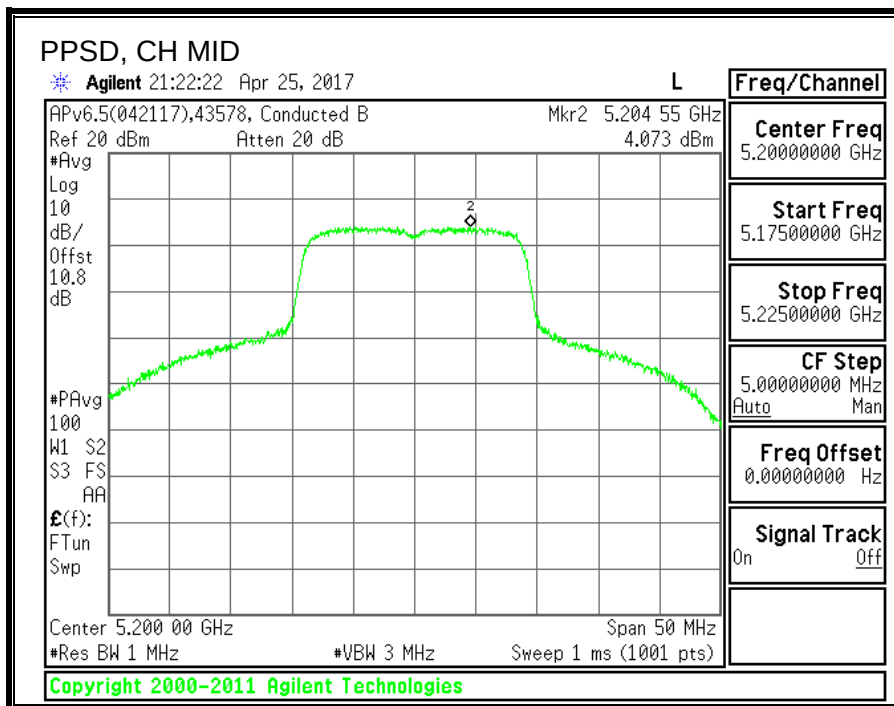
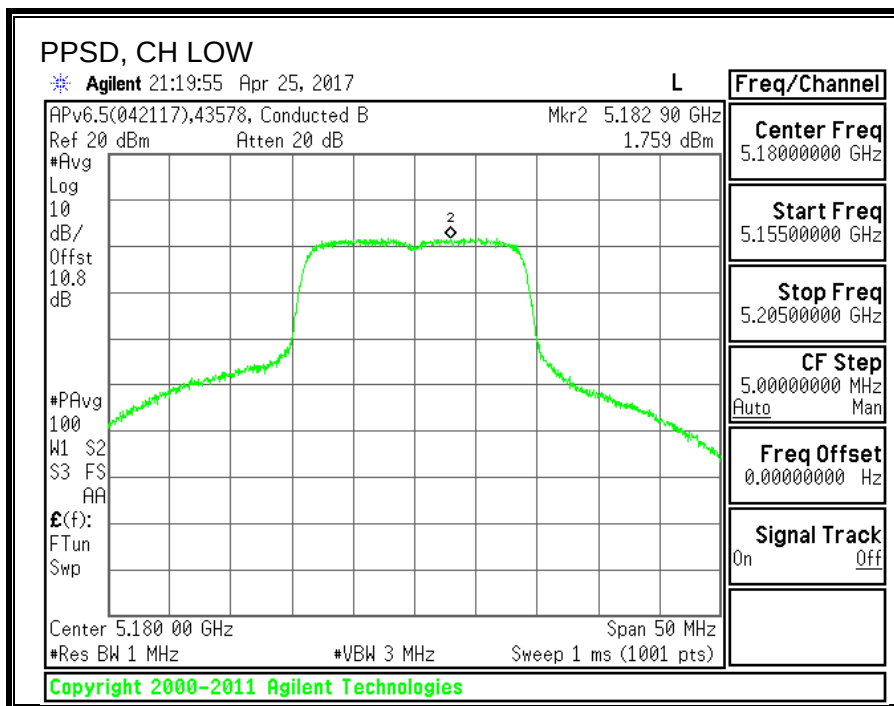
Output Power Results

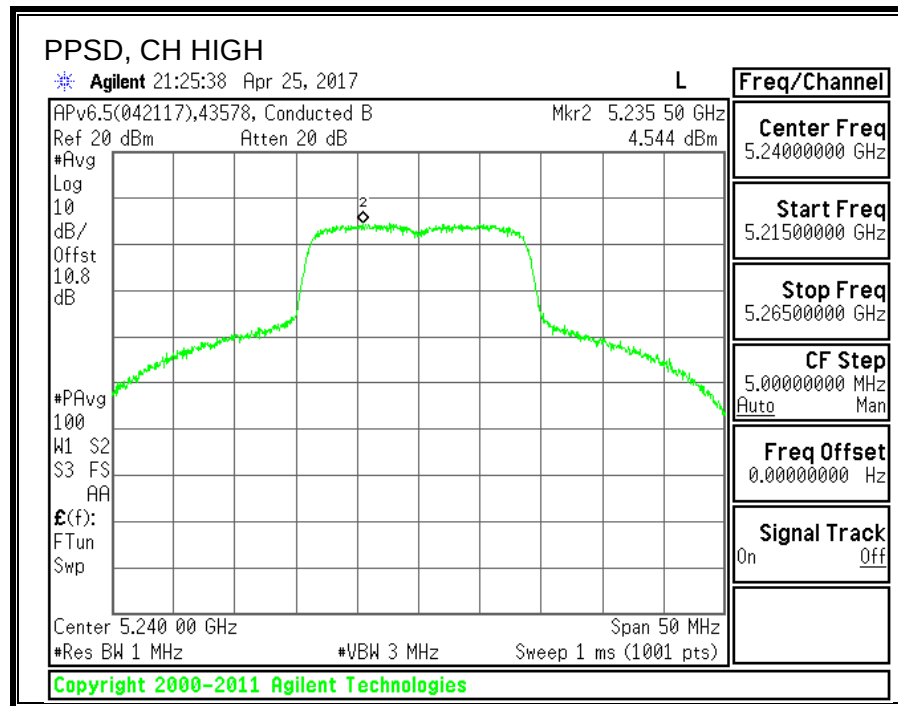
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	12.64	12.64	23.39	-10.75
Mid	5200	15.06	15.06	23.39	-8.33
High	5240	15.63	15.63	23.42	-7.79

PPSD Results

Channel	Frequency (MHz)	Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	1.759	1.759	10.92	-9.16
Mid	5200	4.073	4.073	10.92	-6.85
High	5240	4.544	4.544	10.92	-6.38

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.





9.4. 11n HT40 MODE IN THE 5.2GHz BAND

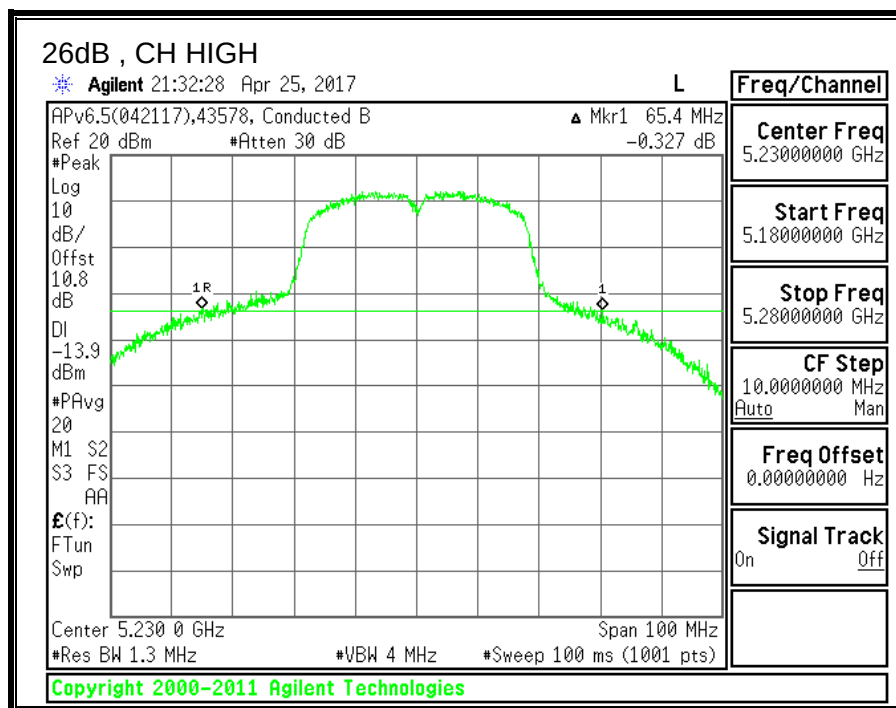
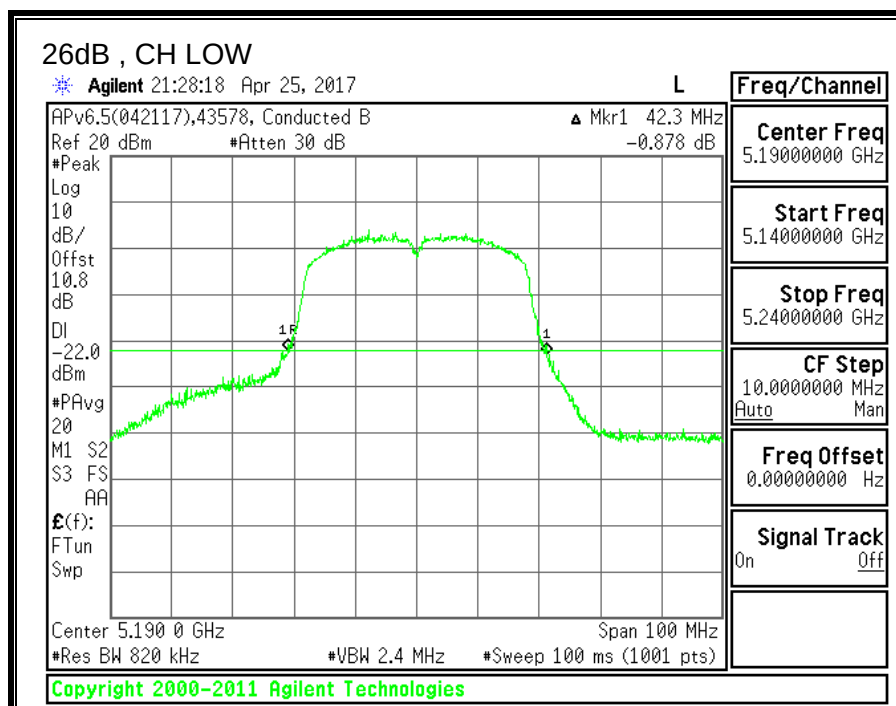
9.4.1. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW (MHz)
Low	5190	42.30
High	5230	65.40



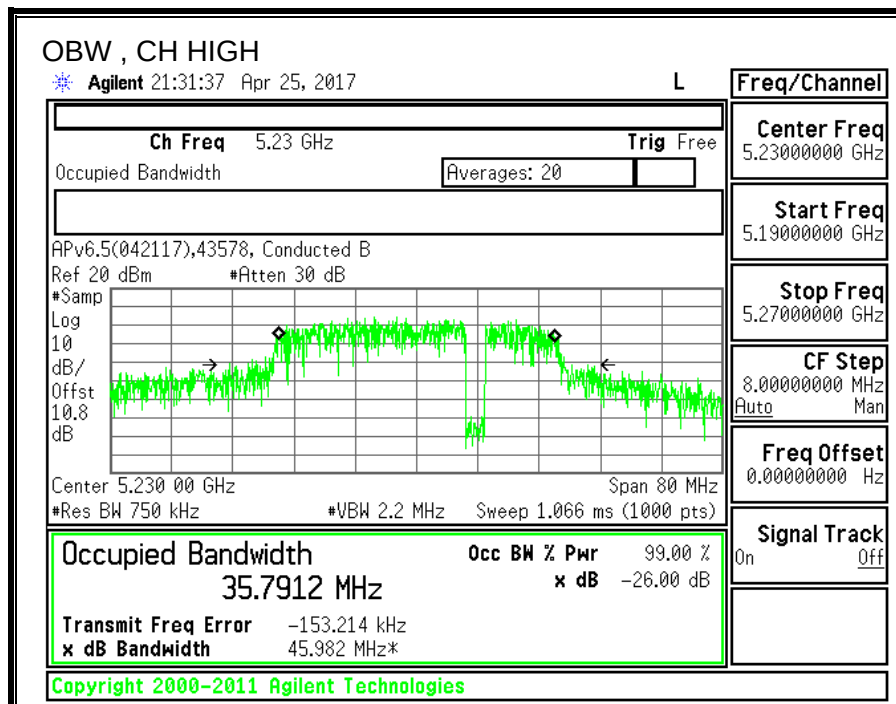
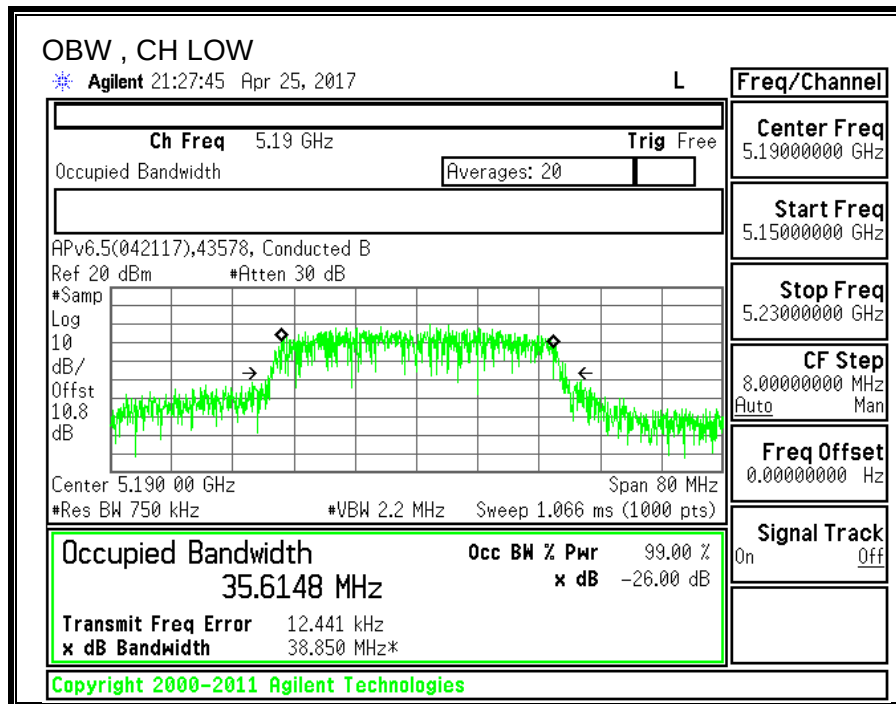
9.4.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5190	35.6148
High	5230	35.7912



9.4.3. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-247 (6.2.1) (1)

The maximum EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5190	42.30	35.6148	-0.92	-0.92
High	5230	65.40	35.7912	-0.92	-0.92

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5190	24.00	23.00	23.92	23.92	11.00	10.00	10.92
High	5230	24.00	23.00	23.92	23.92	11.00	10.00	10.92

Duty Cycle CF (dB)	0.17	Included in Calculations of Corr'd PPSD
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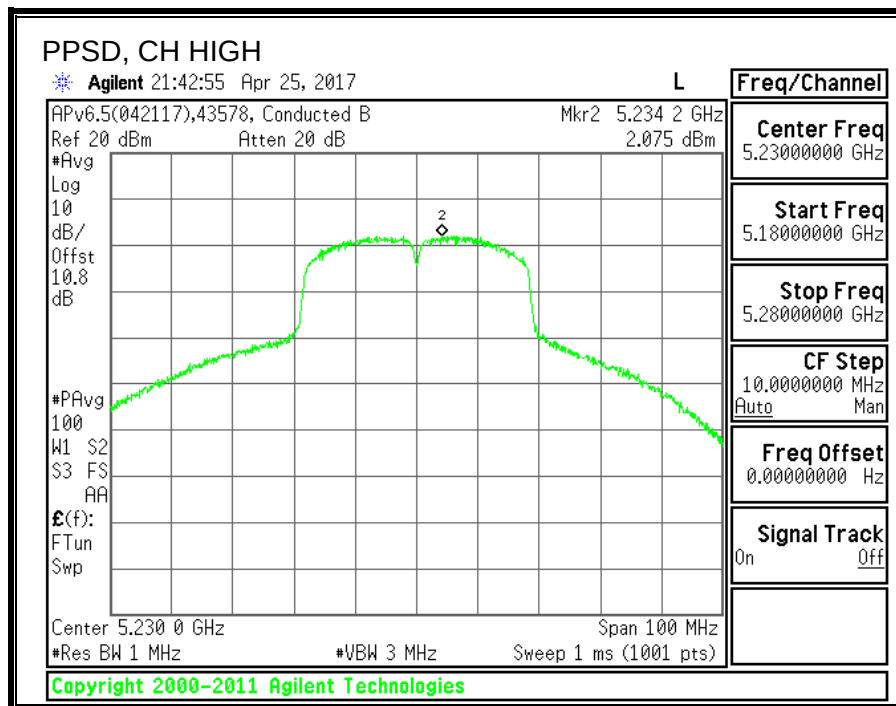
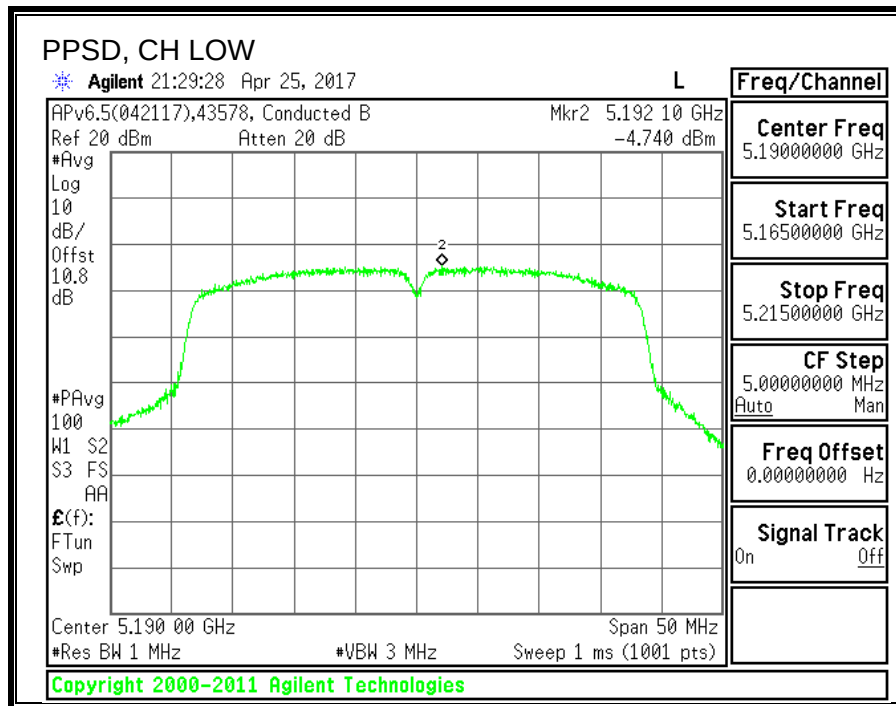
Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	9.71	9.71	23.92	-14.21
High	5230	15.37	15.37	23.92	-8.55

PPSD Results

Channel	Frequency (MHz)	Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5190	-4.740	-4.57	10.92	-15.49
High	5230	2.075	2.25	10.92	-8.68

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.



9.5. 11a MODE IN THE 5.8GHz BAND

9.5.1. 6 dB BANDWIDTH

LIMITS

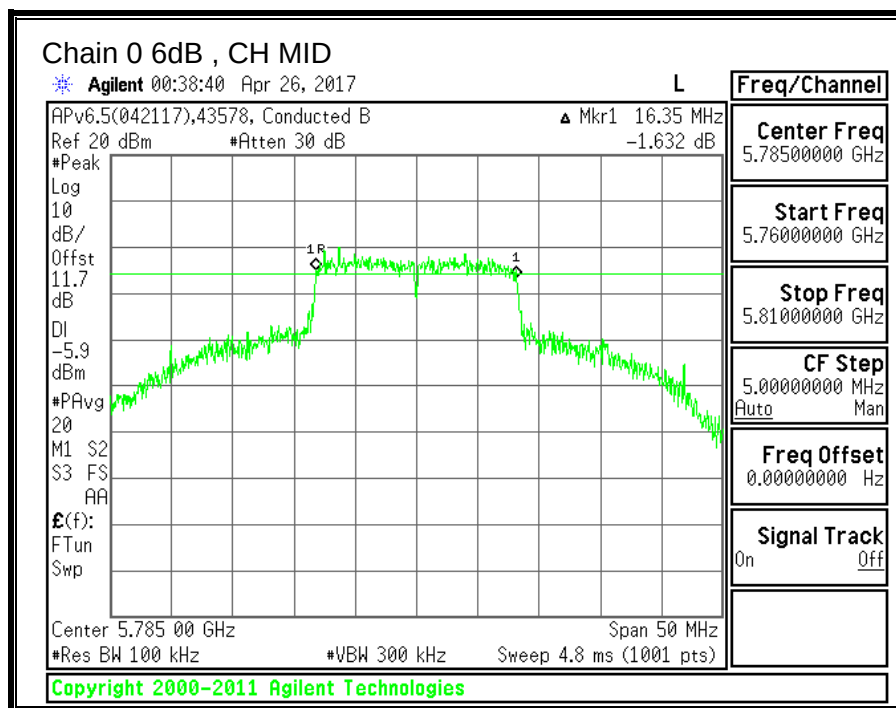
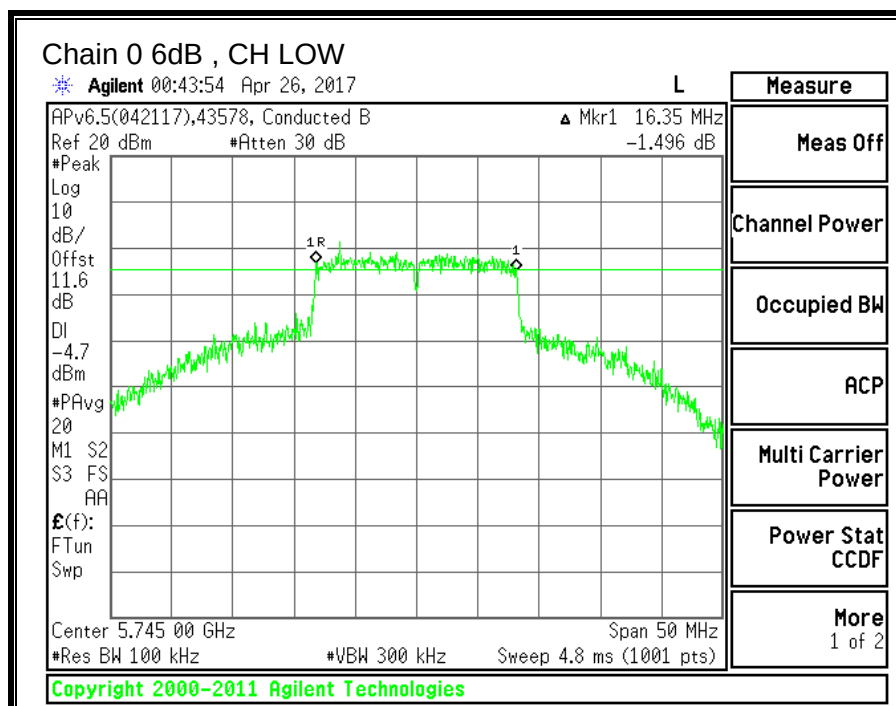
FCC §15.407 (e)

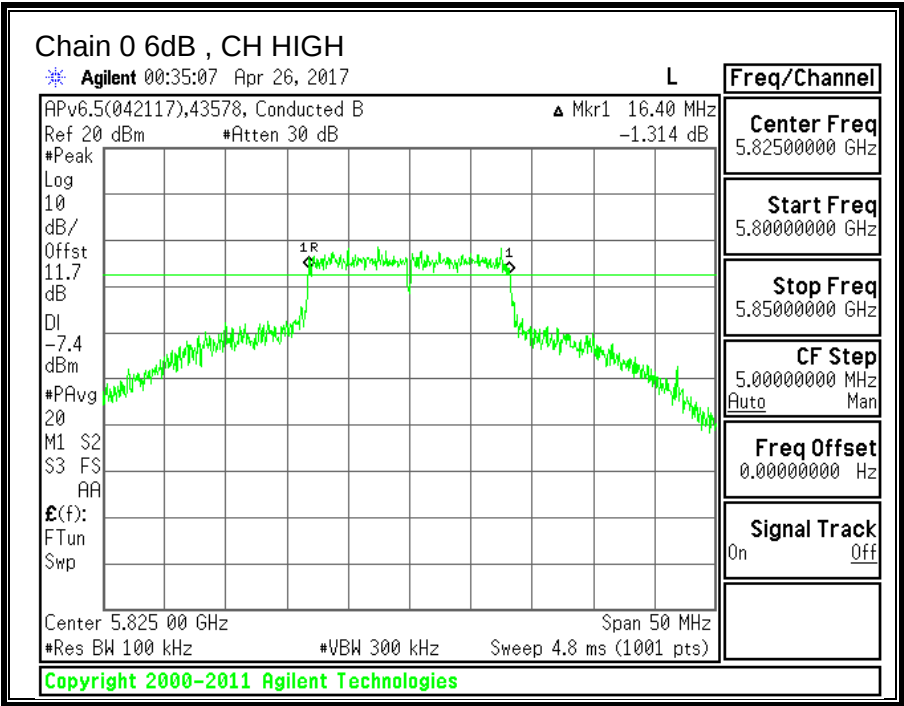
IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	16.35	0.5
Mid	5785	16.35	0.5
High	5825	16.40	0.5





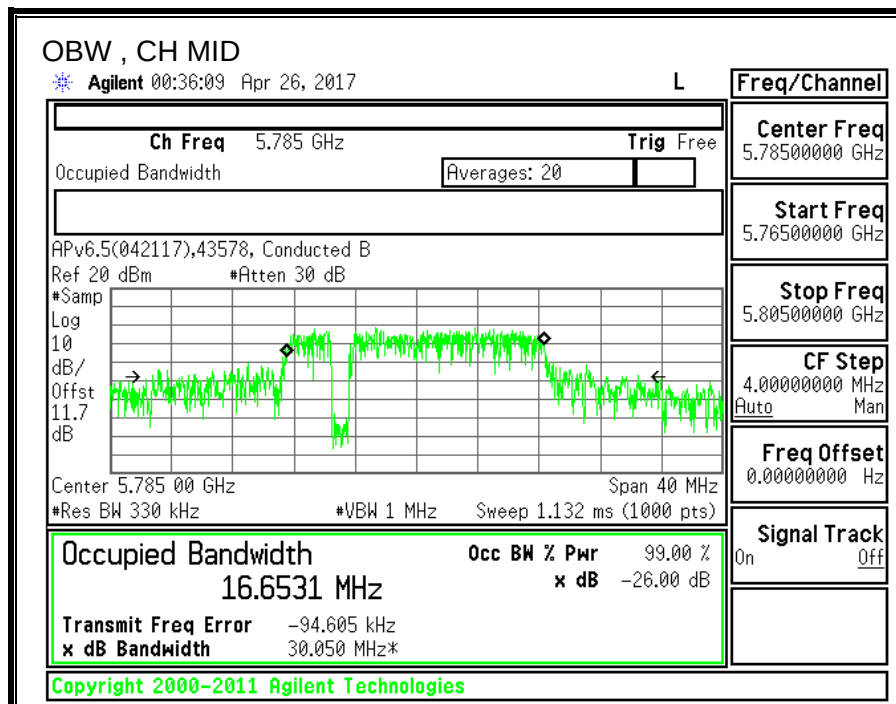
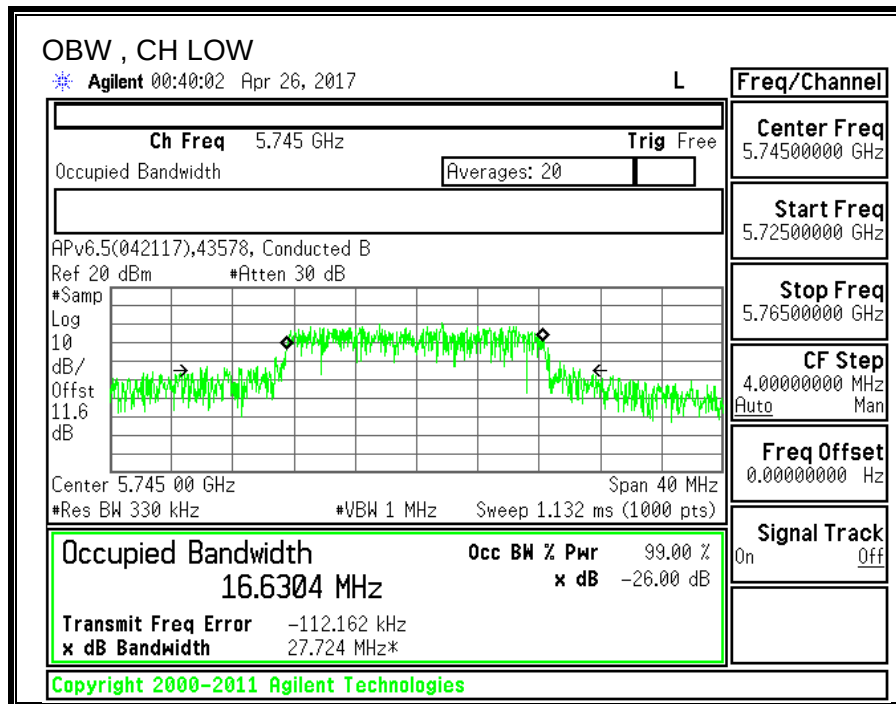
9.5.2. 99% BANDWIDTH

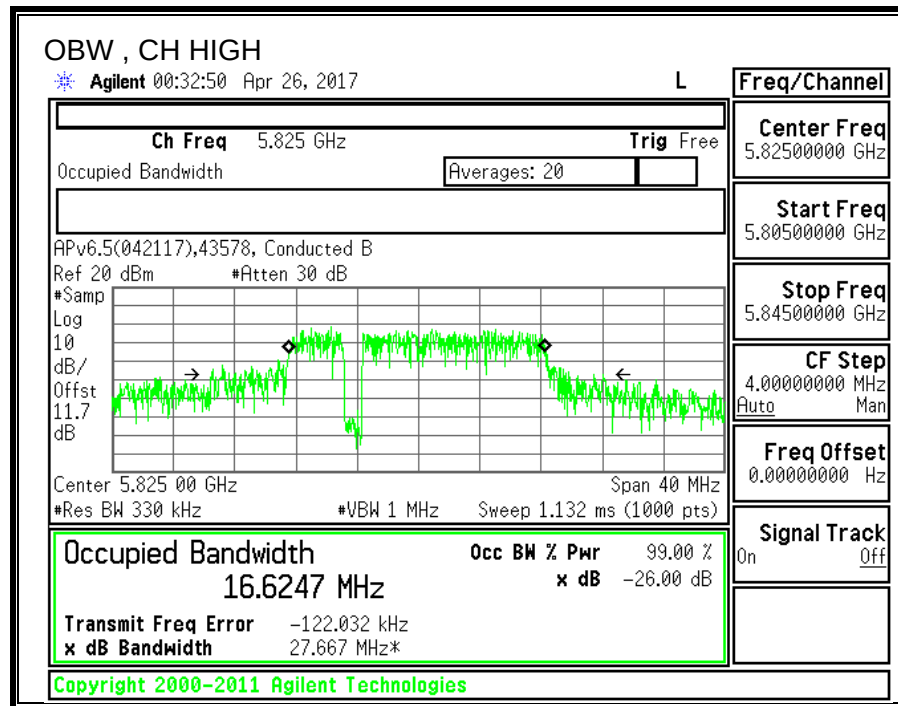
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5745	16.6304
Mid	5785	16.6531
High	5825	16.6247





9.5.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

IC RSS-247 (6.2.4) (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	Power Limit (dBm)
Low	5745	-0.96	-0.96	30.00	30.00
Mid	5785	-0.96	-0.96	30.00	30.00
High	5825	-0.96	-0.96	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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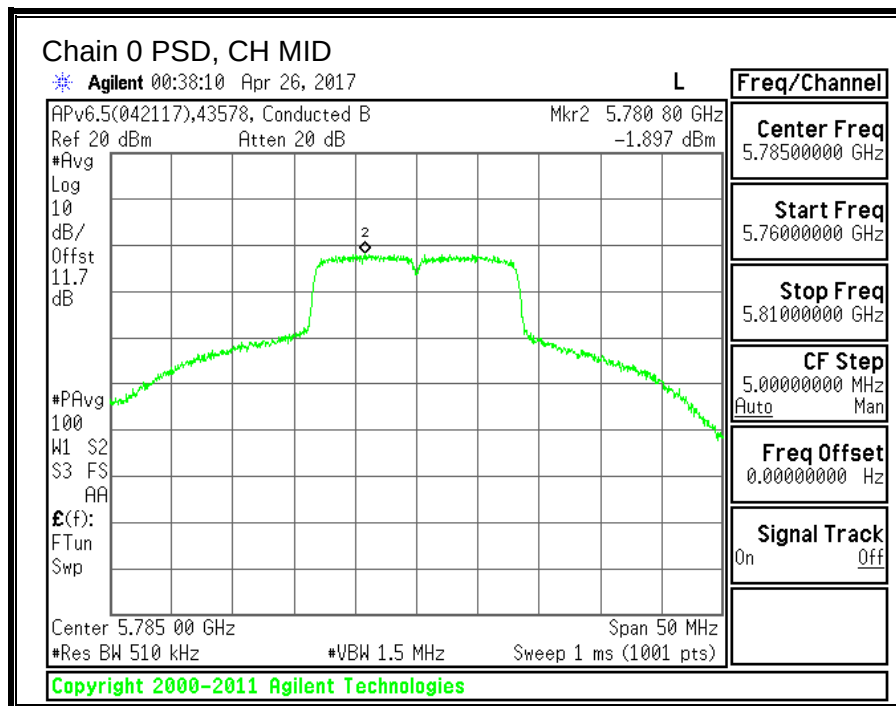
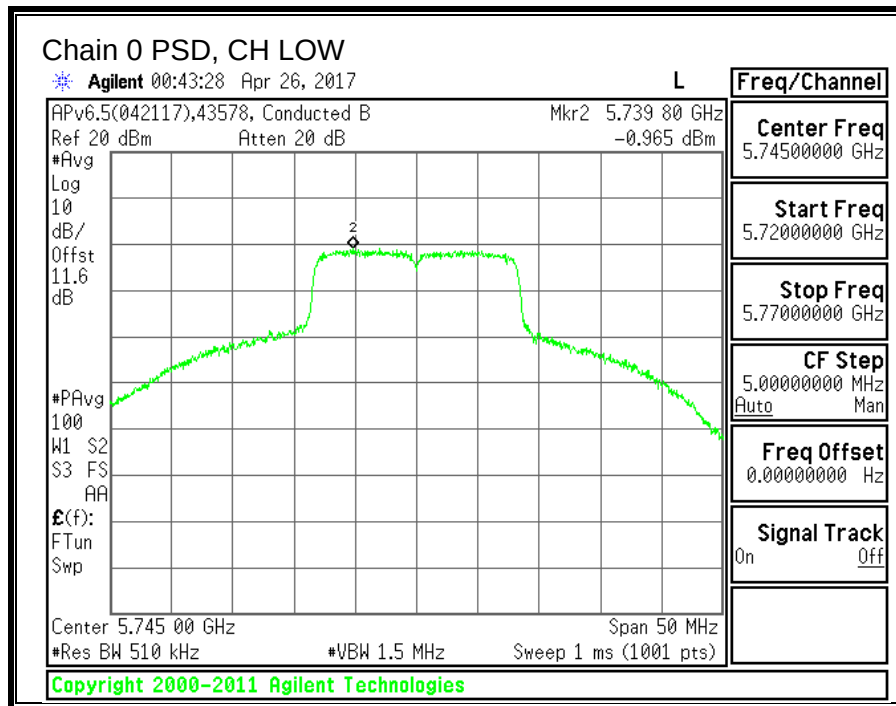
Output Power Results

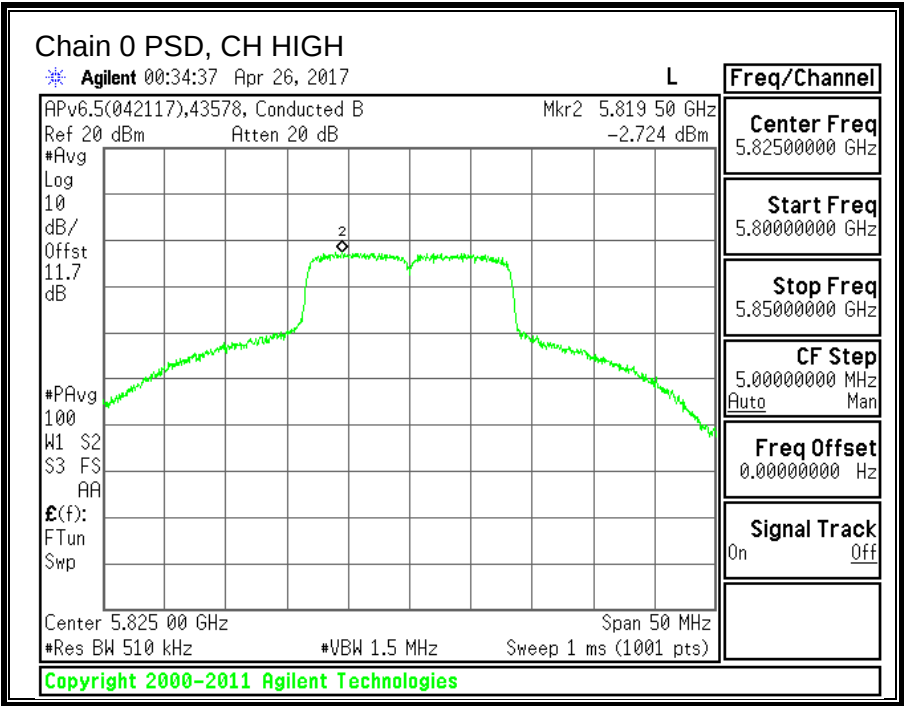
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.04	13.04	30.00	-16.96
Mid	5785	12.01	12.01	30.00	-17.99
High	5825	11.38	11.38	30.00	-18.62

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	-0.965	-0.97	30.00	-30.97
Mid	5785	-1.897	-1.90	30.00	-31.90
High	5825	-2.724	-2.72	30.00	-32.72

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.





9.6. 11n HT20 MODE IN THE 5.8GHz BAND

9.6.1. 6 dB BANDWIDTH

LIMITS

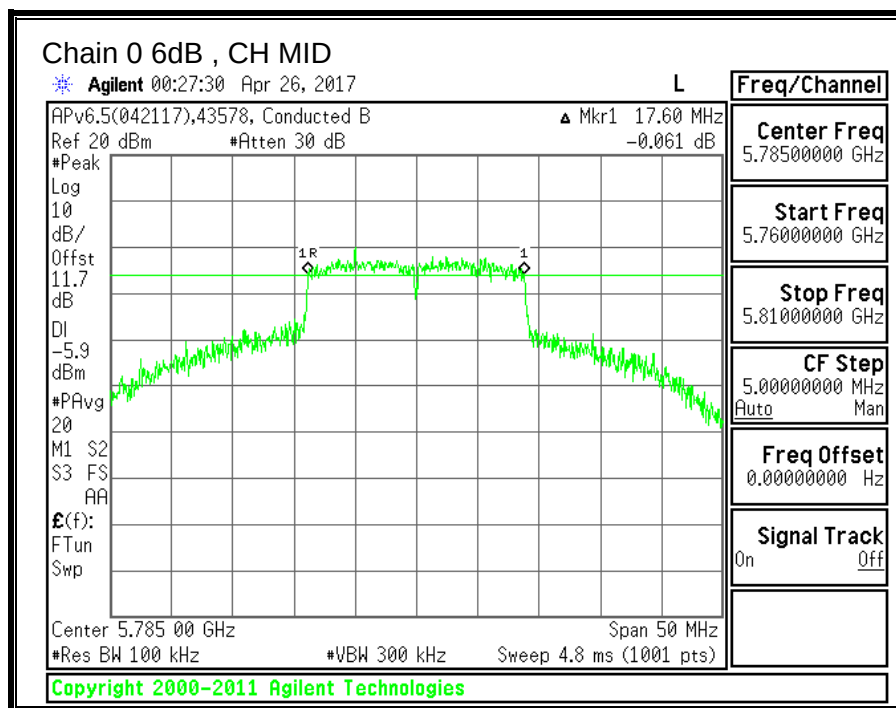
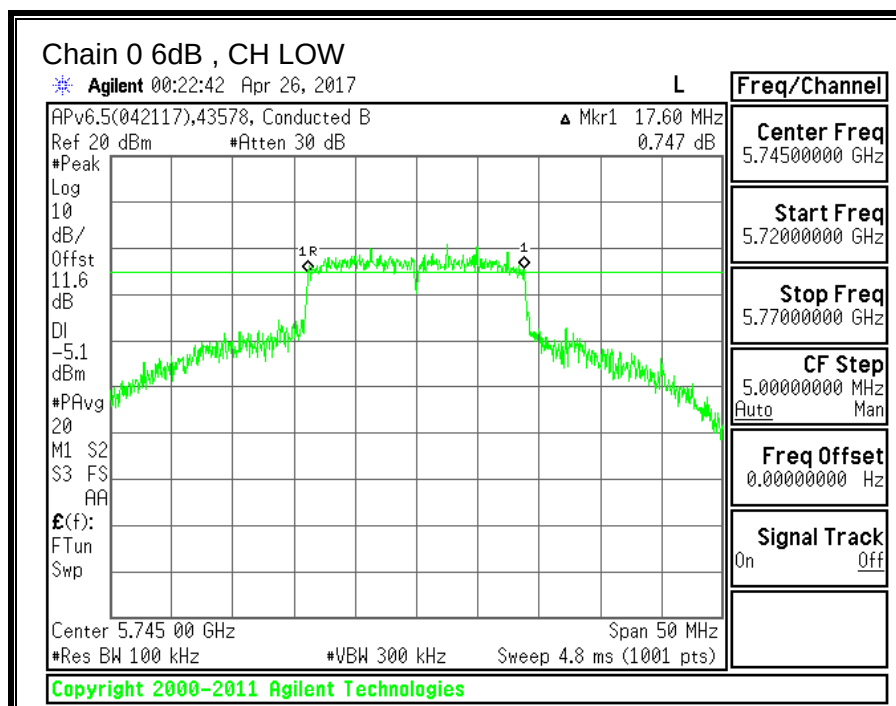
FCC §15.407 (e)

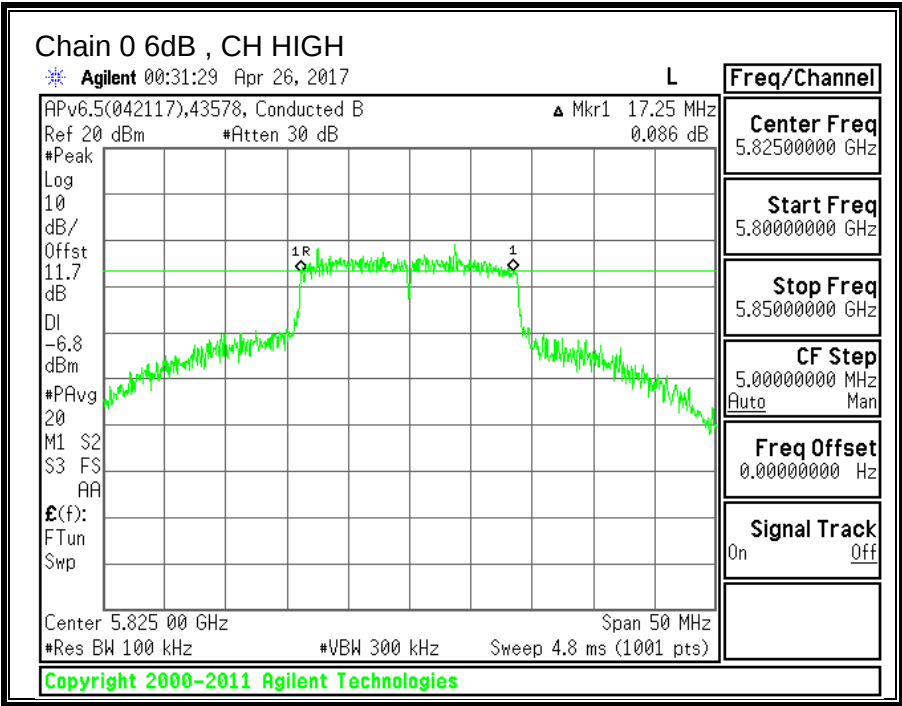
IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5745	17.60	0.5
Mid	5785	17.60	0.5
High	5825	17.25	0.5





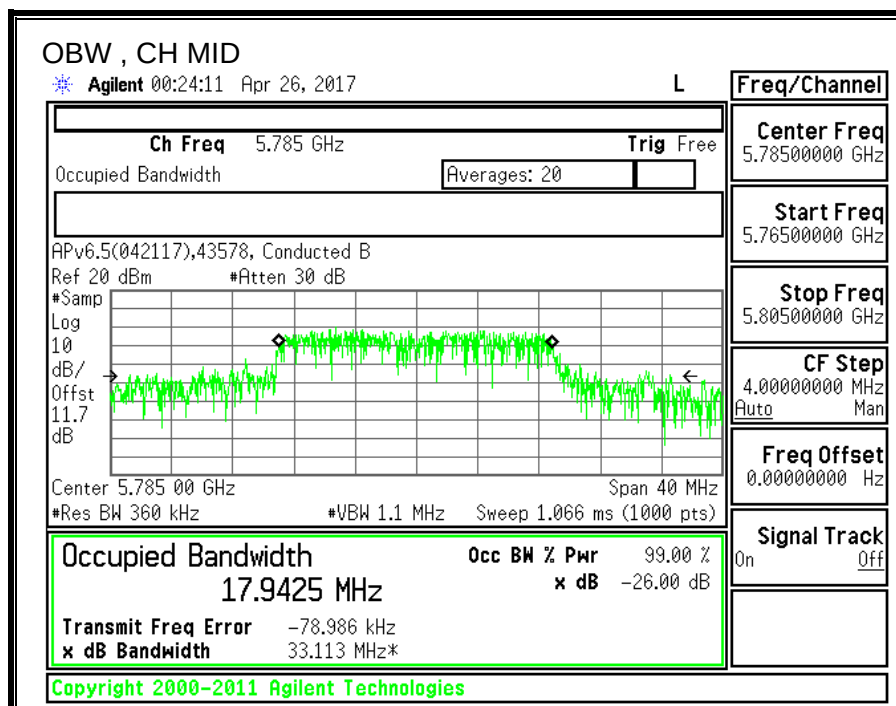
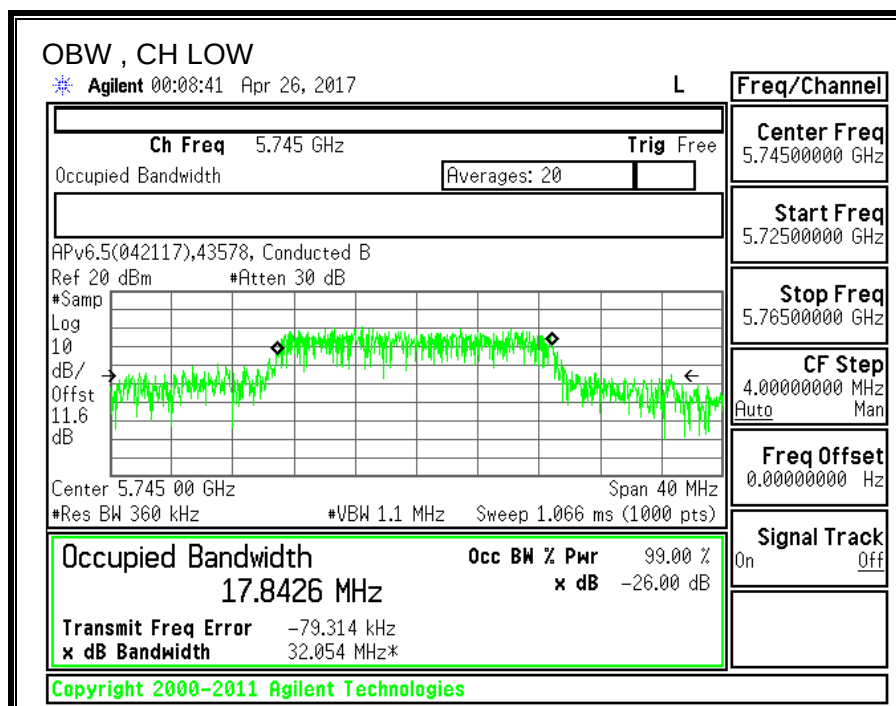
9.6.2. 99% BANDWIDTH

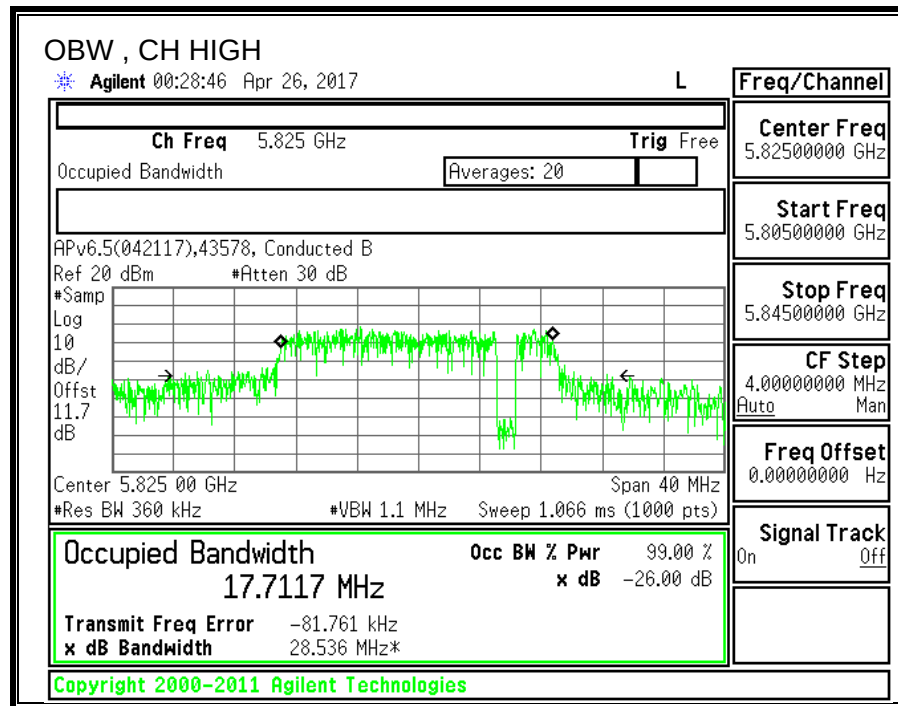
LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5745	17.8426
Mid	5785	17.9425
High	5825	17.7117





9.6.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

IC RSS-247 (6.2.4) (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	Power Limit (dBm)
Low	5745	-0.96	-0.96	30.00	30.00
Mid	5785	-0.96	-0.96	30.00	30.00
High	5825	-0.96	-0.96	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
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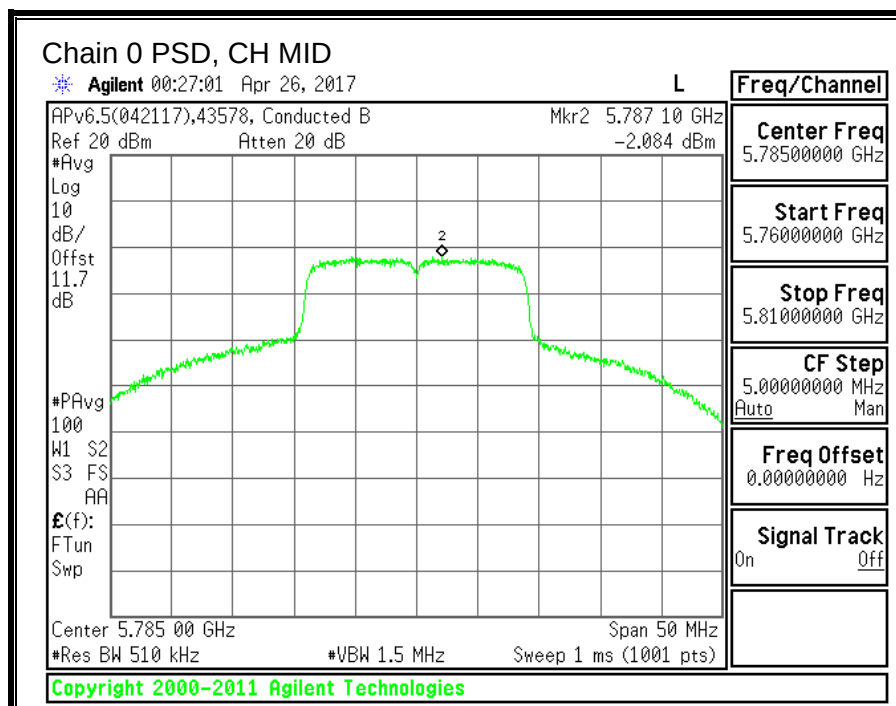
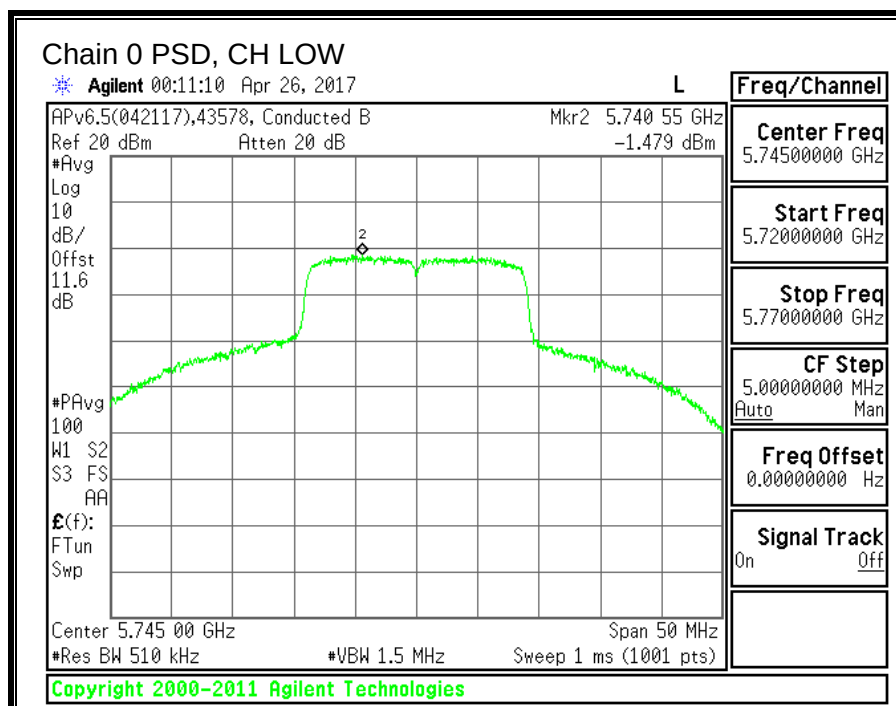
Output Power Results

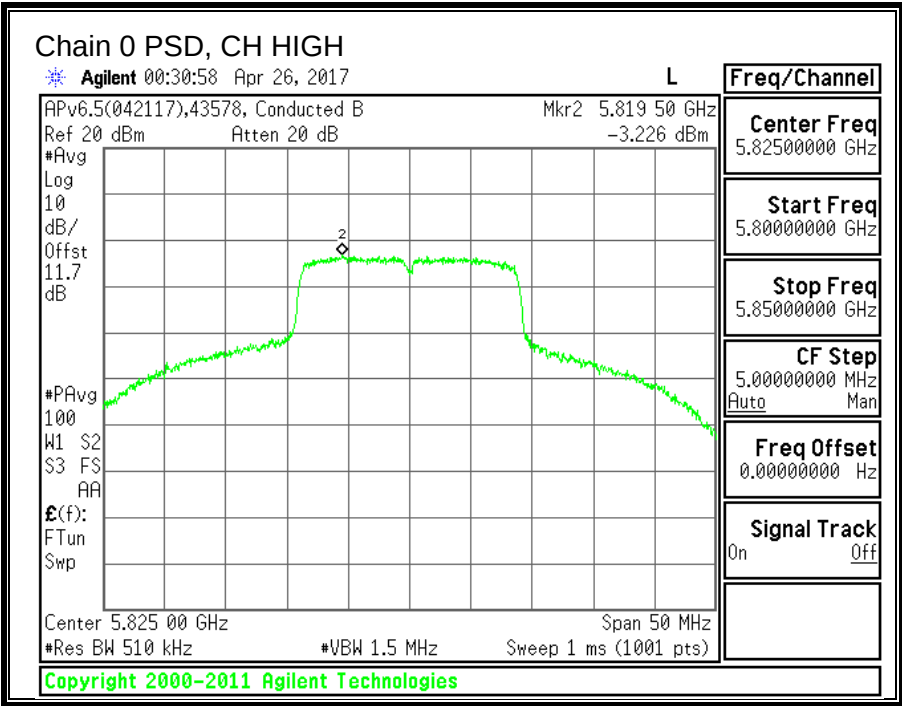
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	12.64	12.64	30.00	-17.36
Mid	5785	12.03	12.03	30.00	-17.97
High	5825	11.31	11.31	30.00	-18.69

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	-1.479	-1.48	30.00	-31.48
Mid	5785	-2.084	-2.08	30.00	-32.08
High	5825	-3.226	-3.23	30.00	-33.23

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.





9.7. 11n HT40 MODE IN THE 5.8GHz BAND

9.7.1. 6 dB BANDWIDTH

LIMITS

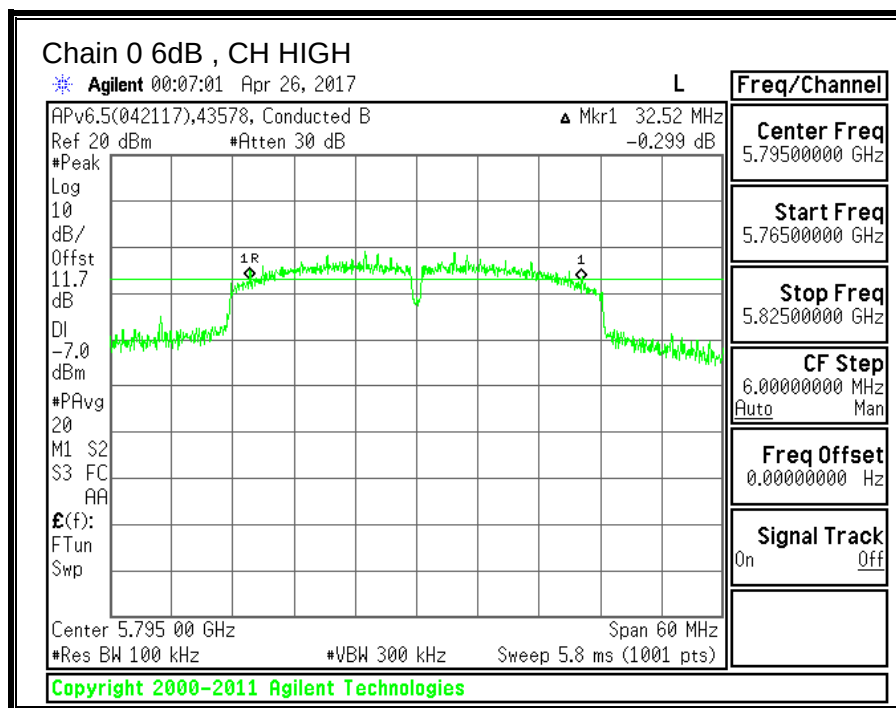
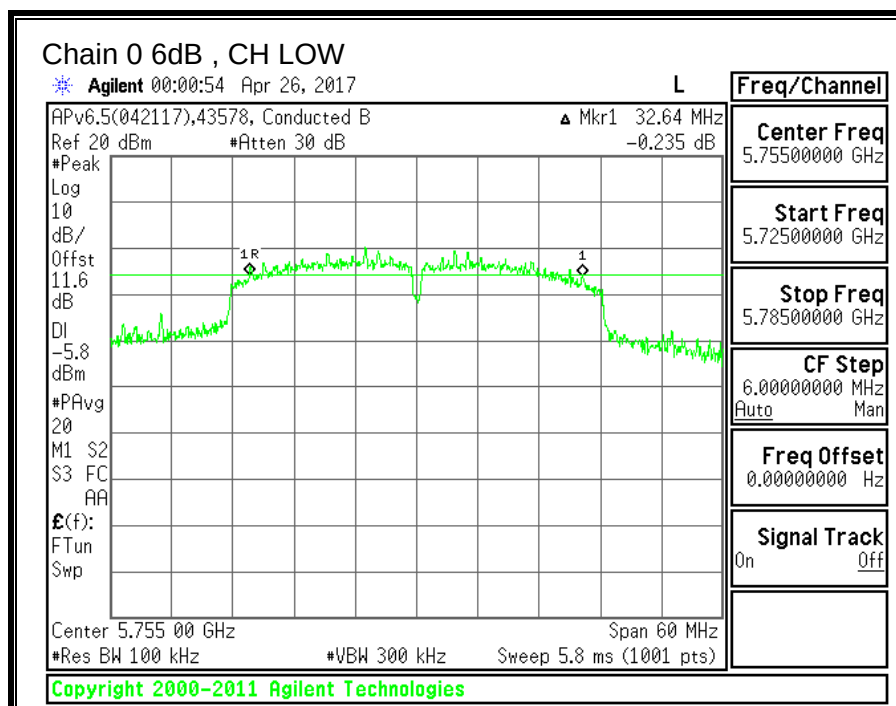
FCC §15.407 (e)

IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency	6 dB BW (MHz)	Minimum Limit (MHz)
Low	5755	32.64	0.5
High	5795	32.52	0.5



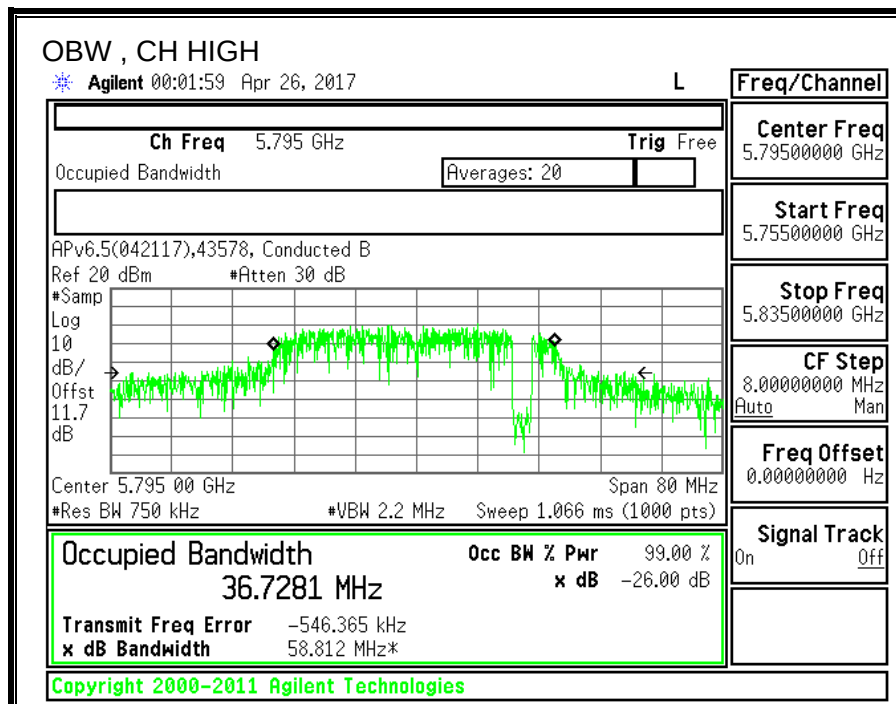
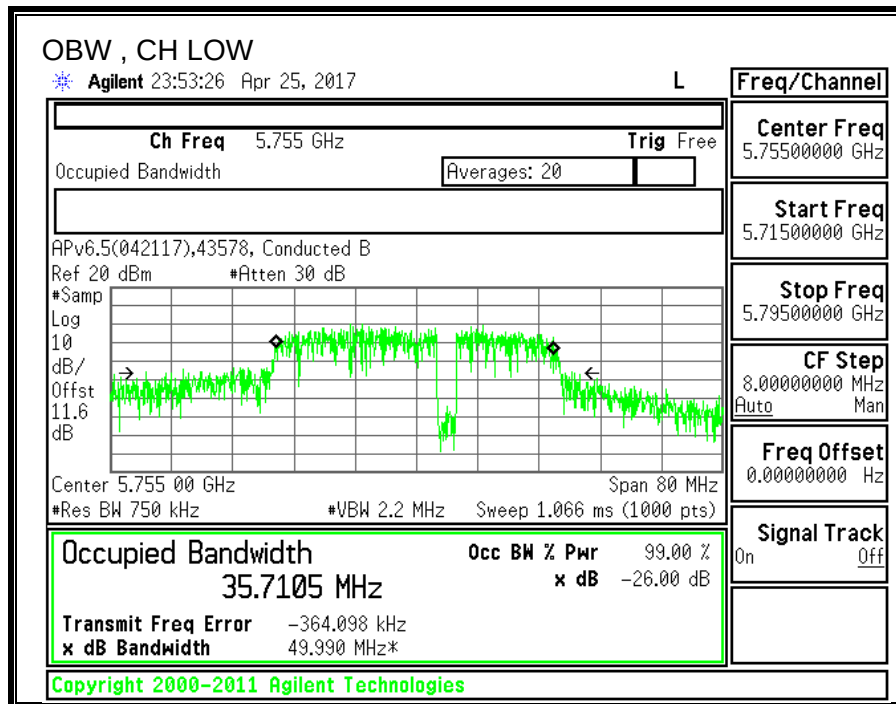
9.7.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW (MHz)
Low	5755	35.7105
High	5795	36.7281



9.7.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

IC RSS-247 (6.2.4) (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

ID:	43578_GE	Date:	4/25/17
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Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	Power Limit (dBm)
Low	5755	-0.96	-0.96	30.00	30.00
High	5795	-0.96	-0.96	30.00	30.00

Duty Cycle CF (dB)	0.17	Included in Calculations of Corr'd PSD
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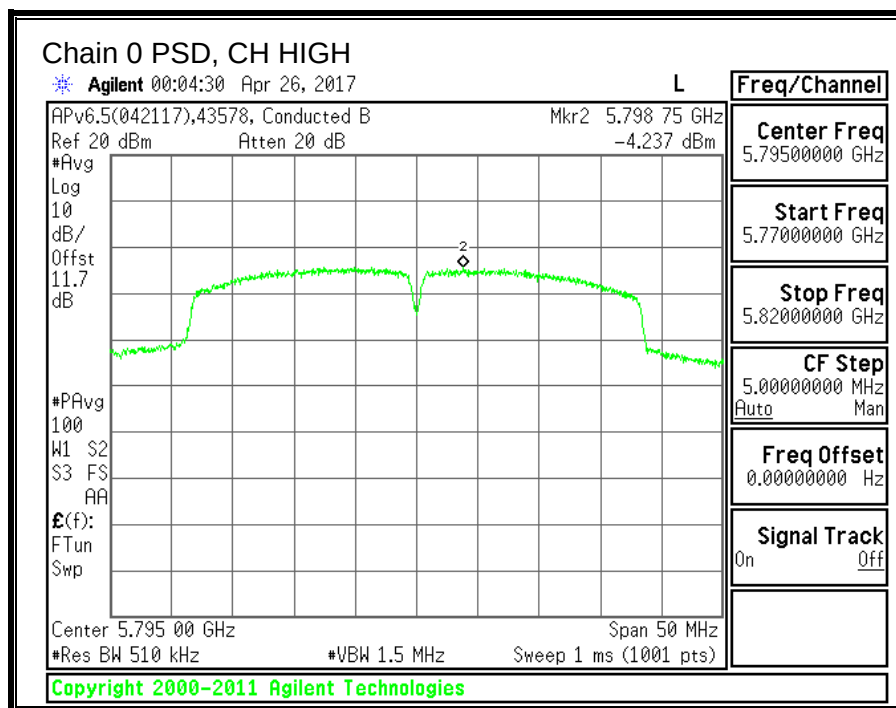
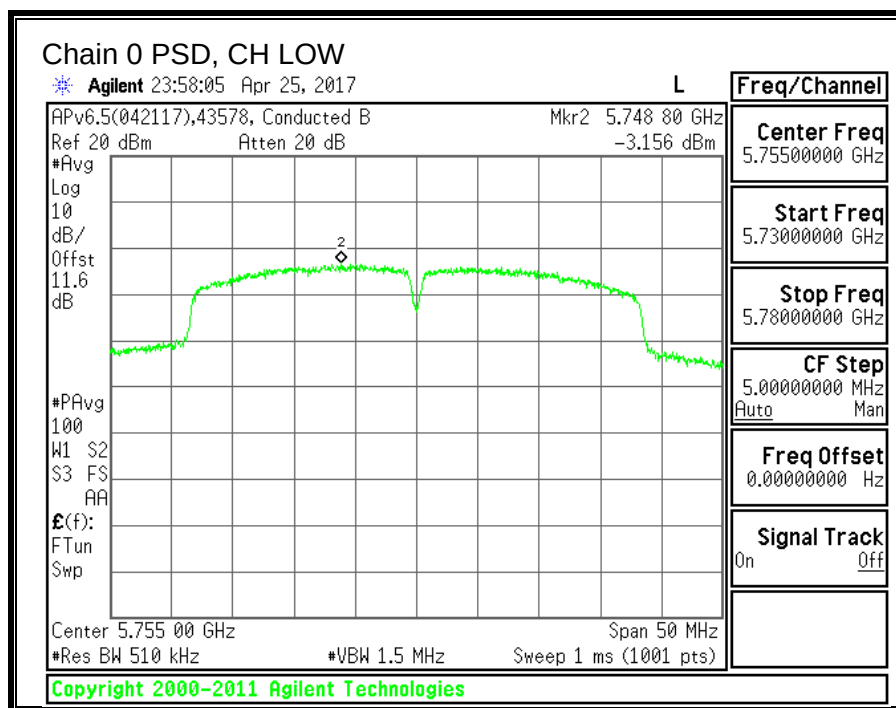
Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	12.58	12.58	30.00	-17.42
High	5795	12.06	12.06	30.00	-17.94

Output Power Results

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	-3.156	-2.99	30.00	-32.99
High	5795	-4.237	-4.07	30.00	-34.07

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	2400/F(kHz) @ 300m
0.490-1.705	24000/F(kHz) @ 30 m	24000/F(kHz) @ 30m
1.705 - 30	30 @ 30m	30 @ 30m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE: KDB 414788 D01 OATS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

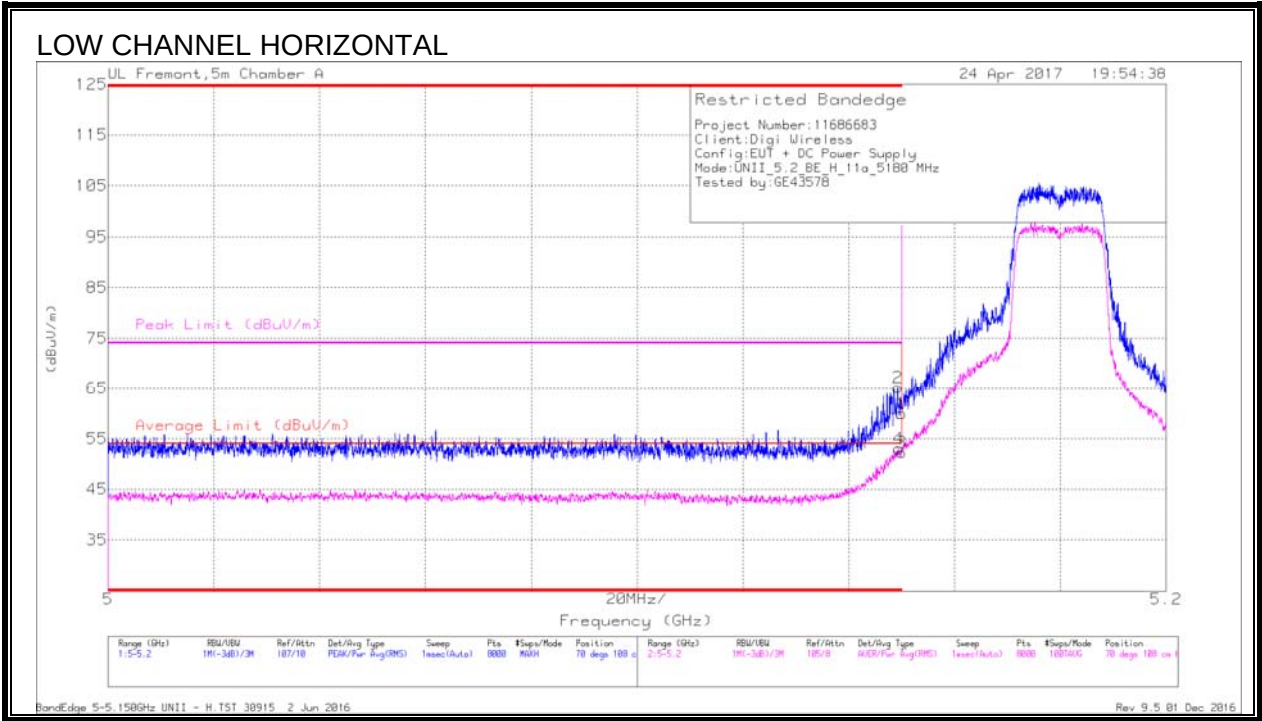
The spectrum from 9 kHz to 40 GHz is investigated with the EUT was set to transmit on the channel with higher output power as worst-case scenario.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

10.1.1. 11a MODE IN THE 5.2GHz BAND

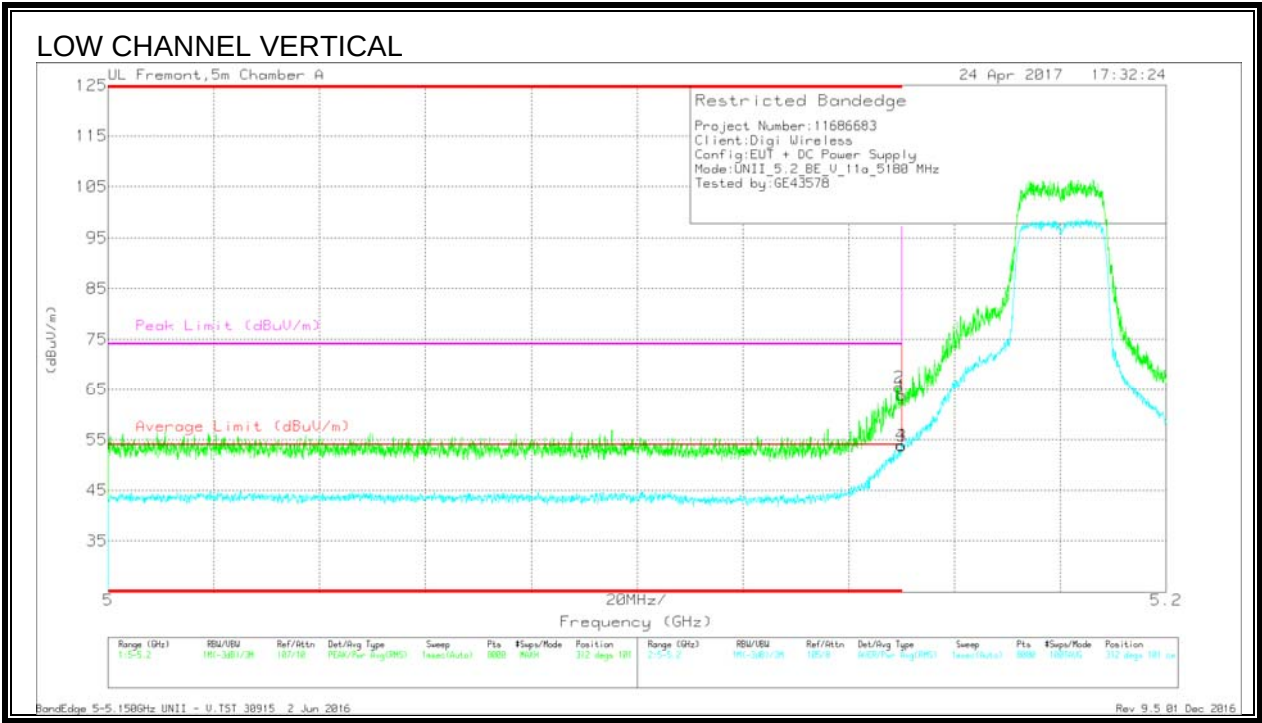
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT711 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.58	Pk	34.1	-18.7	0	59.98	-	-	74	-14.02	70	108	H
2	* 5.149	49.72	Pk	34.1	-18.6	0	65.22	-	-	74	-8.78	70	108	H
3	* 5.15	36.91	RMS	34.1	-18.7	0	52.31	54	-1.69	-	-	70	108	H
4	* 5.149	37.55	RMS	34.1	-18.6	0	53.05	54	-95	-	-	70	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection



Trace Markers

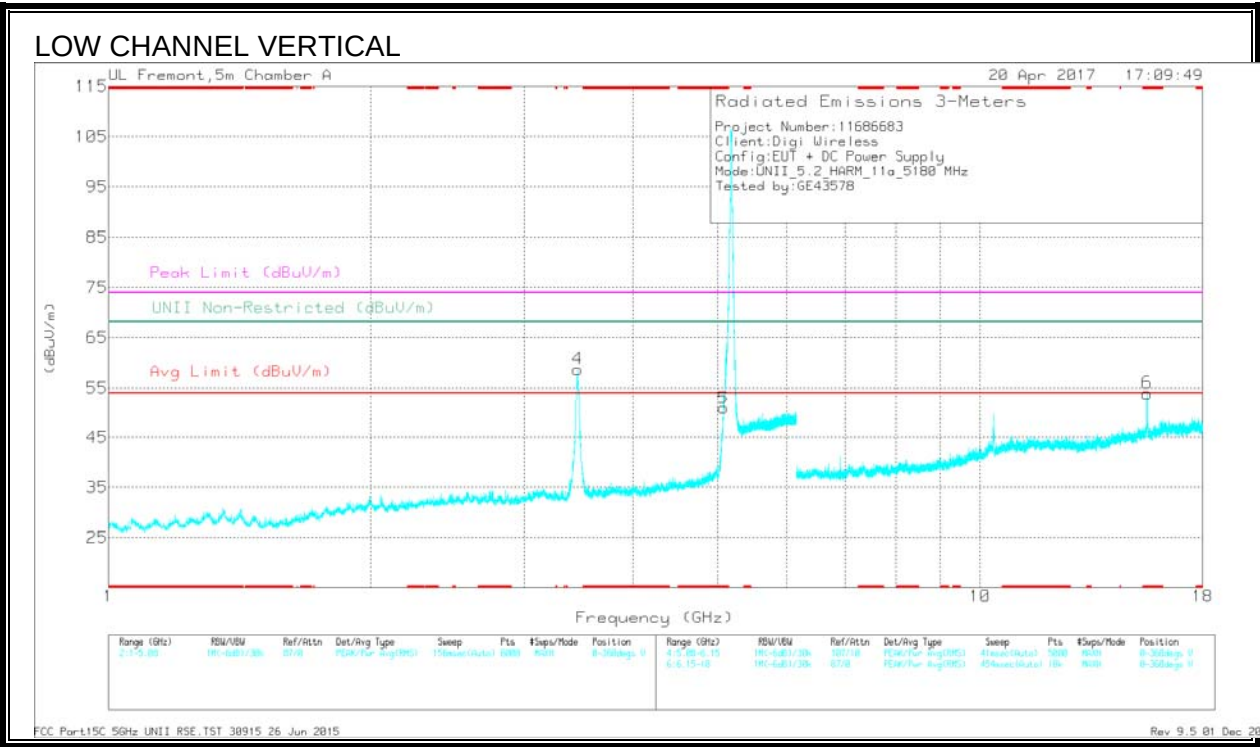
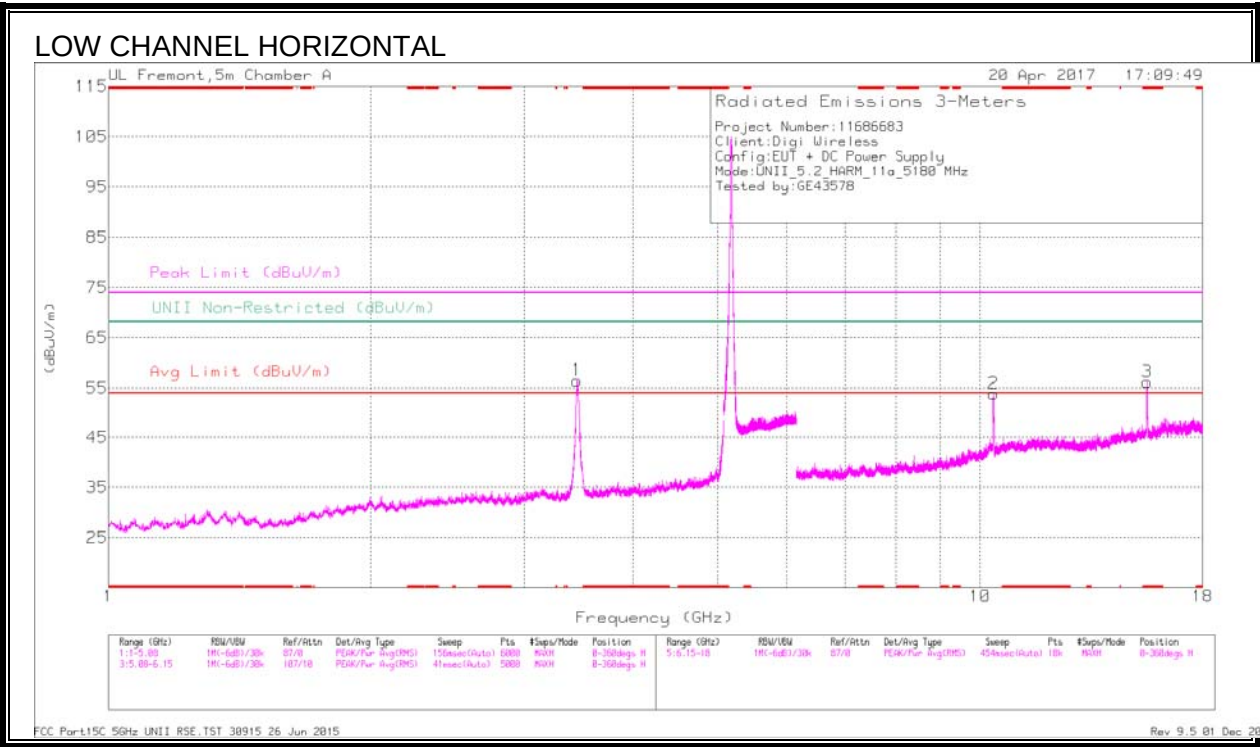
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.15	48.43	Pk	34.1	-18.7	0	63.83	-	-	74	-10.17	312	101	V
2	* 5.15	49.98	Pk	34.1	-18.6	0	65.48	-	-	74	-8.52	312	101	V
3	* 5.15	38.39	RMS	34.1	-18.7	0	53.79	54	-21	-	-	312	101	V
4	* 5.15	38.48	RMS	34.1	-18.7	0	53.88	54	-12	-	-	312	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5	* 5.078	42.25	Pk	34.1	-25.5	0	50.85	-	-	74	-23.15	-	-	0-360	200	V
3	* 15.537	35.04	Pk	40.3	-19.1	0	56.24	-	-	74	-17.76	-	-	0-360	199	H
6	* 15.544	32.75	Pk	40.3	-19.1	0	53.95	-	-	74	-20.05	-	-	0-360	101	V
1	3.45	53.94	Pk	32.9	-30.3	0	56.54	-	-	-	-	68.2	-11.66	0-360	102	H
4	3.453	56.15	Pk	32.9	-30.3	0	58.75	-	-	-	-	68.2	-9.45	0-360	101	V
2	10.358	37.02	Pk	37.4	-20.5	0	53.92	-	-	-	-	68.2	-14.28	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

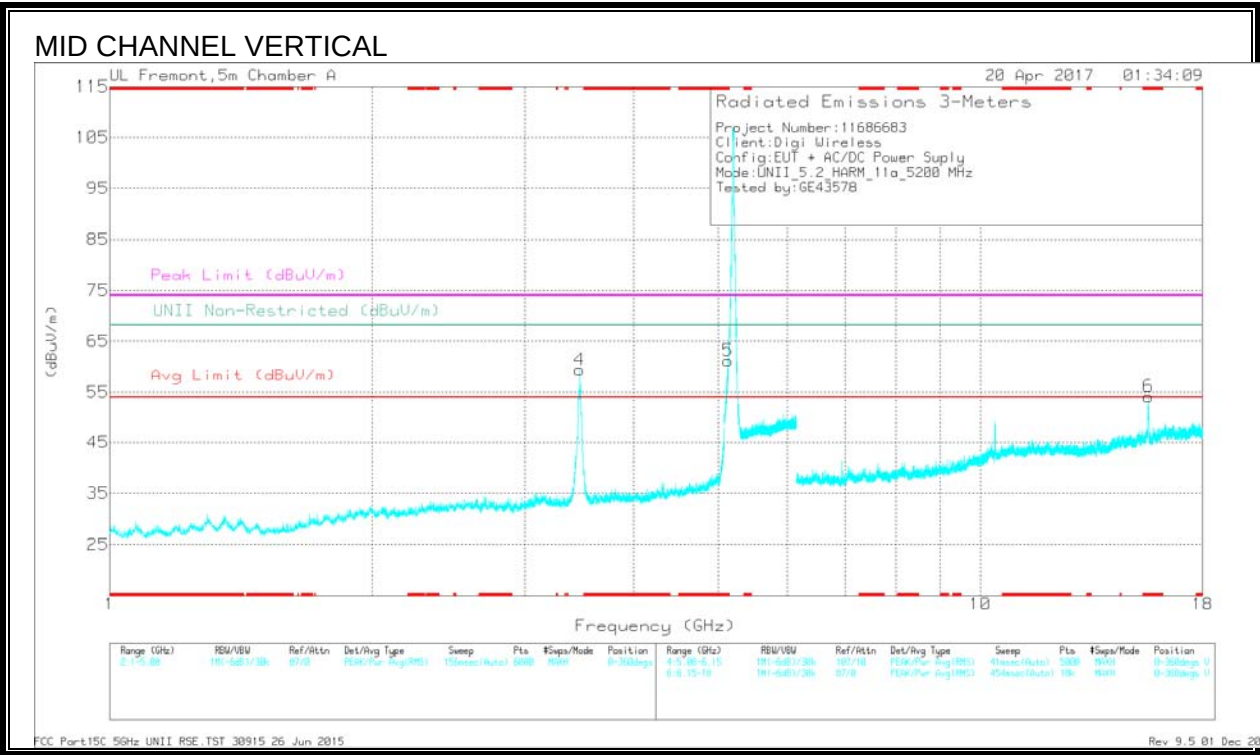
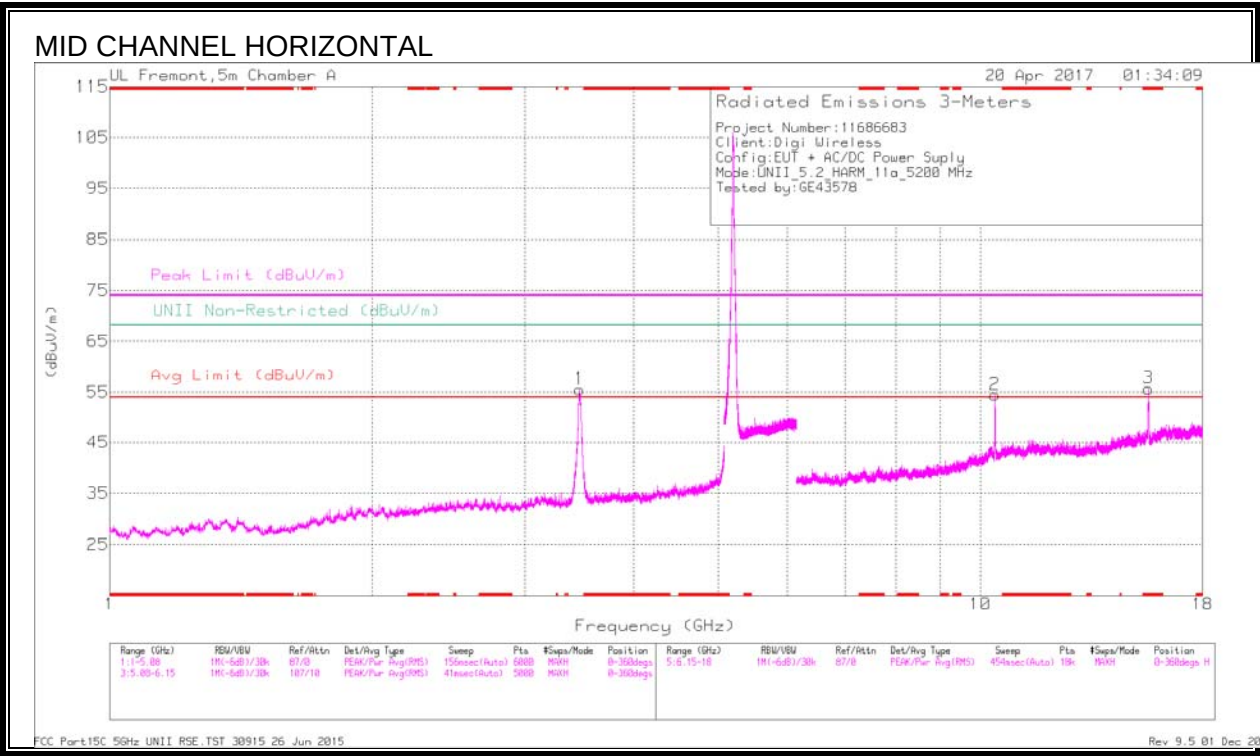
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 5.08	54.14	PK-U	34.1	-25.5	0	62.74	-	-	74	-11.26	-	-	335	197	V
* 5.078	35.36	ADR	34.1	-25.5	0	43.96	54	-10.04	-	-	-	-	335	197	V
* 15.536	42.05	PK-U	40.3	-19.1	0	63.25	-	-	74	-10.75	-	-	13	216	H
* 15.544	29.61	ADR	40.3	-19.1	0	50.81	54	-3.19	-	-	-	-	13	216	H
* 15.552	39.45	PK-U	40.3	-19.2	0	60.55	-	-	74	-13.45	-	-	28	104	V
* 15.54	27.62	ADR	40.3	-19.1	0	48.82	54	-5.18	-	-	-	-	28	104	V
3.449	60.56	PK-U	32.9	-30.3	0	63.16	-	-	-	-	68.2	-5.04	120	106	H
3.453	63.25	PK-U	32.9	-30.3	0	65.85	-	-	-	-	68.2	-2.35	326	324	V
10.365	44.16	PK-U	37.4	-20.7	0	60.86	-	-	-	-	68.2	-7.34	199	190	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5	* 5.128	45.68	Pk	34.1	-18.6	0	61.18	-	-	74	-12.82	-	-	0-360	101	V
3	* 15.596	35.45	Pk	40.4	-20.1	0	55.75	-	-	74	-18.25	-	-	0-360	199	H
6	* 15.598	33.86	Pk	40.4	-20.1	0	54.16	-	-	74	-19.84	-	-	0-360	101	V
1	3.467	53.21	Pk	32.9	-30.5	0	55.61	-	-	-	-	68.2	-12.59	0-360	102	H
4	3.467	56.99	Pk	32.9	-30.5	0	59.39	-	-	-	-	68.2	-8.81	0-360	200	V
2	10.398	37.81	Pk	37.5	-20.8	0	54.51	-	-	-	-	68.2	-13.69	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

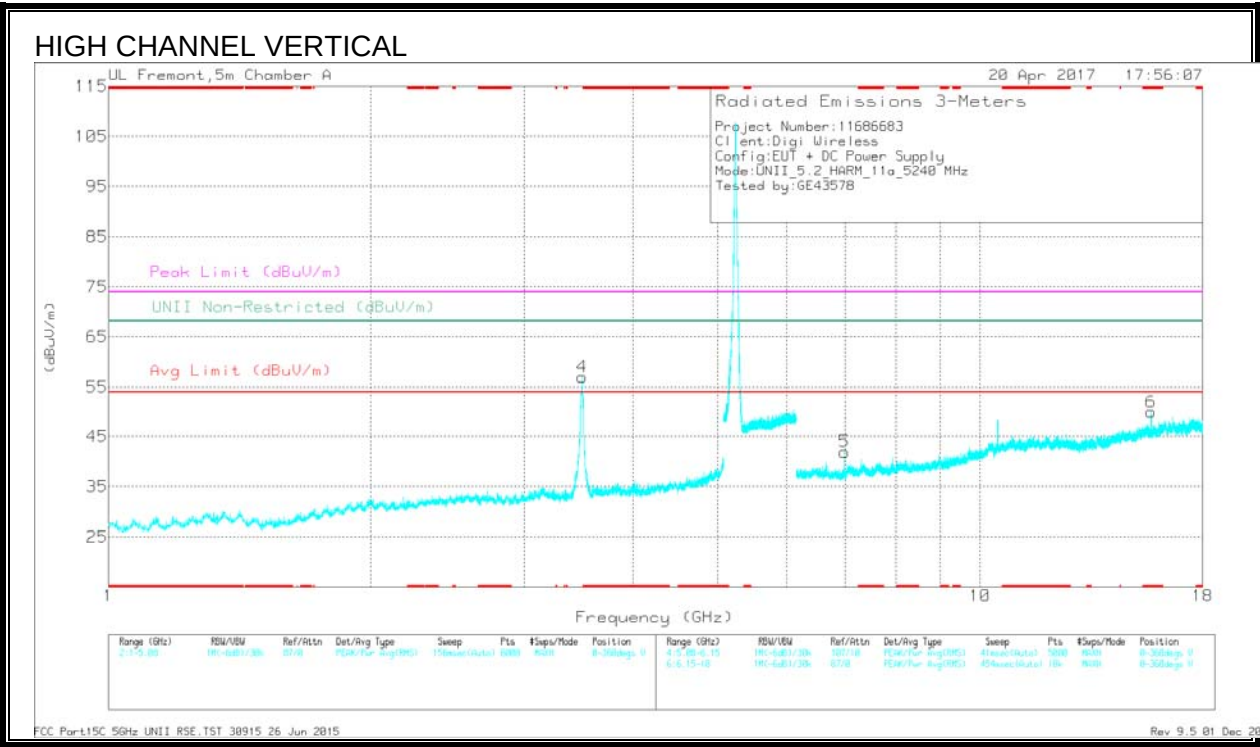
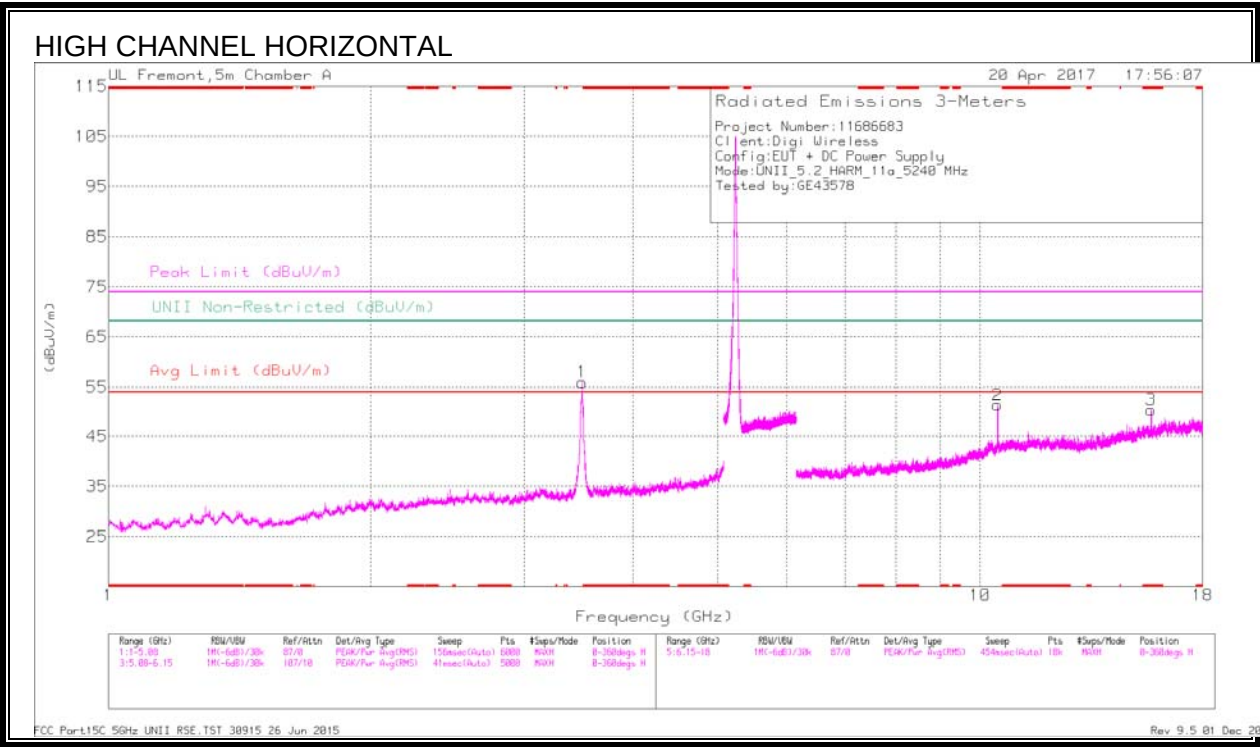
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 5.128	54.38	PK-U	34.1	-18.6	0	69.88	-	-	74	-4.12	-	-	295	119	V
* 5.13	37.67	ADR	34.1	-18.6	0	53.17	54	-83	-	-	-	-	295	119	V
* 15.604	41.11	PK-U	40.4	-20.2	0	61.31	-	-	74	-12.69	-	-	14	208	H
* 15.590	29.43	ADR	40.4	-20.1	0	49.73	54	-4.27	-	-	-	-	14	208	H
* 15.598	40.8	PK-U	40.4	-20.1	0	61.1	-	-	74	-12.9	-	-	24	104	V
* 15.6	29.06	ADR	40.4	-20.1	0	49.36	54	-4.64	-	-	-	-	24	104	V
3.467	61.92	PK-U	32.9	-30.5	0	64.32	-	-	-	-	68.2	-3.88	104	107	H
3.467	63.88	PK-U	32.9	-30.5	0	66.28	-	-	-	-	68.2	-1.92	139	165	V
10.4	44.92	PK-U	37.5	-20.8	0	61.62	-	-	-	-	68.2	-6.58	189	195	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
3	* 15.719	31.01	Pk	40.4	-21.1	0	50.31	-	-	74	-23.69	-	-	0-360	199	H
6	* 15.718	30.55	Pk	40.4	-21.1	0	49.85	-	-	74	-24.15	-	-	0-360	101	V
1	3.493	53.3	Pk	33	-30.3	0	56	-	-	-	-	68.2	-12.2	0-360	101	H
4	3.493	54.28	Pk	33	-30.3	0	56.98	-	-	-	-	68.2	-11.22	0-360	101	V
5	6.987	31.78	Pk	35.4	-25.2	0	41.98	-	-	-	-	68.2	-26.22	0-360	101	V
2	10.478	34.54	Pk	37.6	-20.8	0	51.34	-	-	-	-	68.2	-16.86	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 15.718	40.25	PK-U	40.4	-21.1	0	59.55	-	-	74	-14.45	-	-	28	206	H
* 15.72	27.48	ADR	40.4	-21	0	46.88	54	-7.12	-	-	-	-	28	206	H
* 15.719	36.79	PK-U	40.4	-21.1	0	56.09	-	-	74	-17.91	-	-	30	111	V
* 15.719	25.61	ADR	40.4	-21.1	0	44.91	54	-9.09	-	-	-	-	30	111	V
3.493	61.14	PK-U	33	-30.3	0	63.84	-	-	-	-	68.2	-4.36	114	105	H
3.493	61.44	PK-U	33	-30.3	0	64.14	-	-	-	-	68.2	-4.06	355	103	V
6.987	37.48	PK-U	35.4	-25.2	0	47.68	-	-	-	-	68.2	-20.52	233	101	V
10.474	41.75	PK-U	37.6	-20.7	0	58.65	-	-	-	-	68.2	-9.55	197	209	H

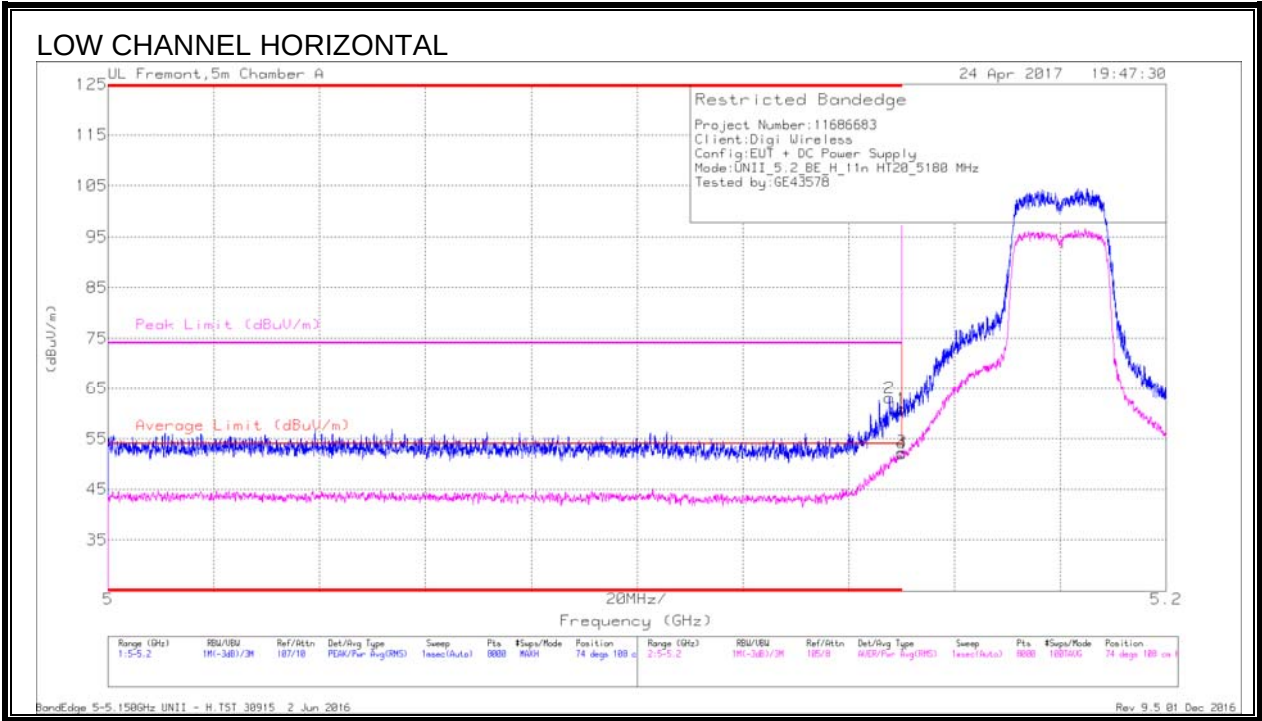
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.2. 11n HT20 MODE IN THE 5.2GHz BAND

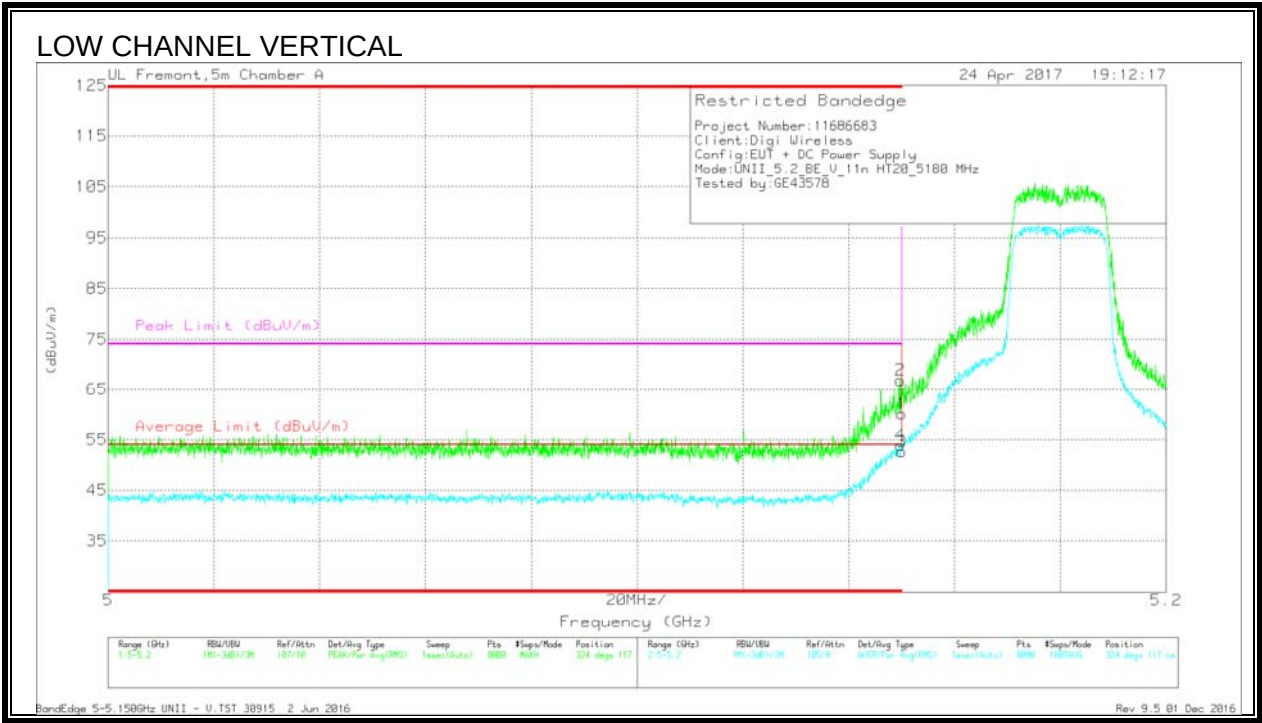
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT711 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.48	Pk	34.1	-18.7	0	60.88	-	-	74	-13.12	74	108	H
2	* 5.148	47.59	Pk	34.1	-18.6	0	63.09	-	-	74	-10.91	74	108	H
3	* 5.15	36.94	RMS	34.1	-18.7	0	52.34	54	-1.66	-	-	74	108	H
4	* 5.15	36.63	RMS	34.1	-18.7	0	52.03	54	-1.97	-	-	74	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection



Trace Markers

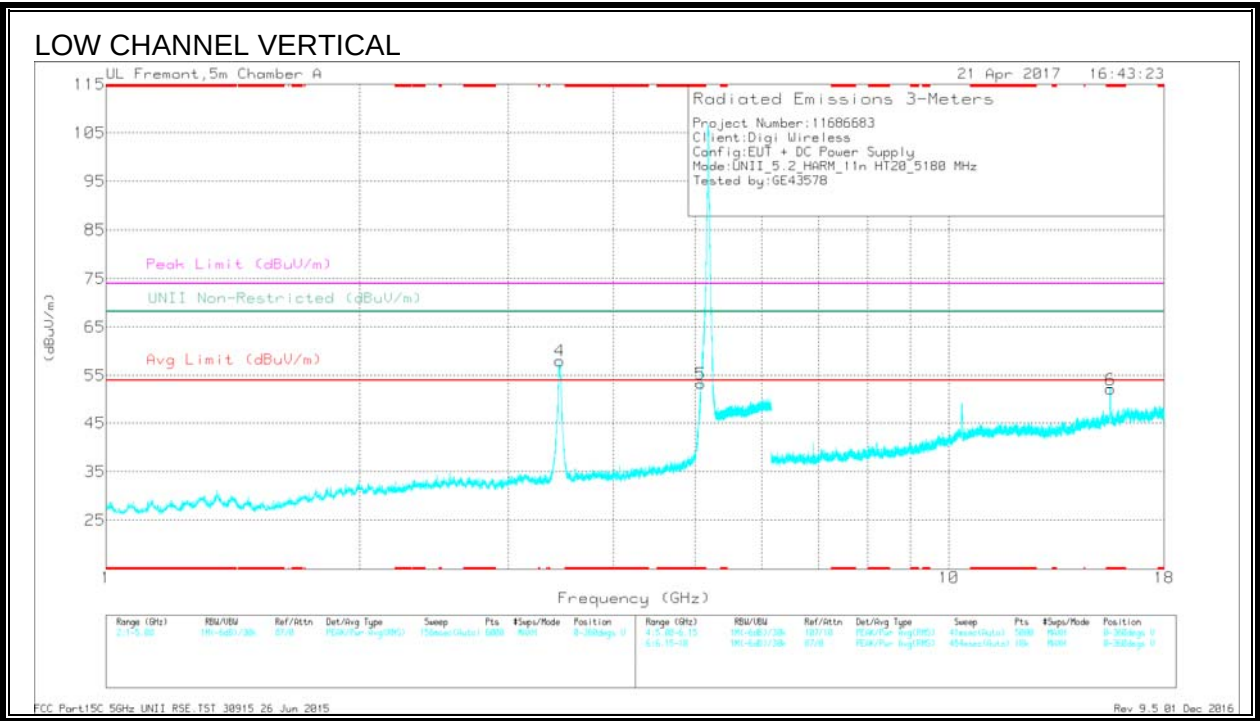
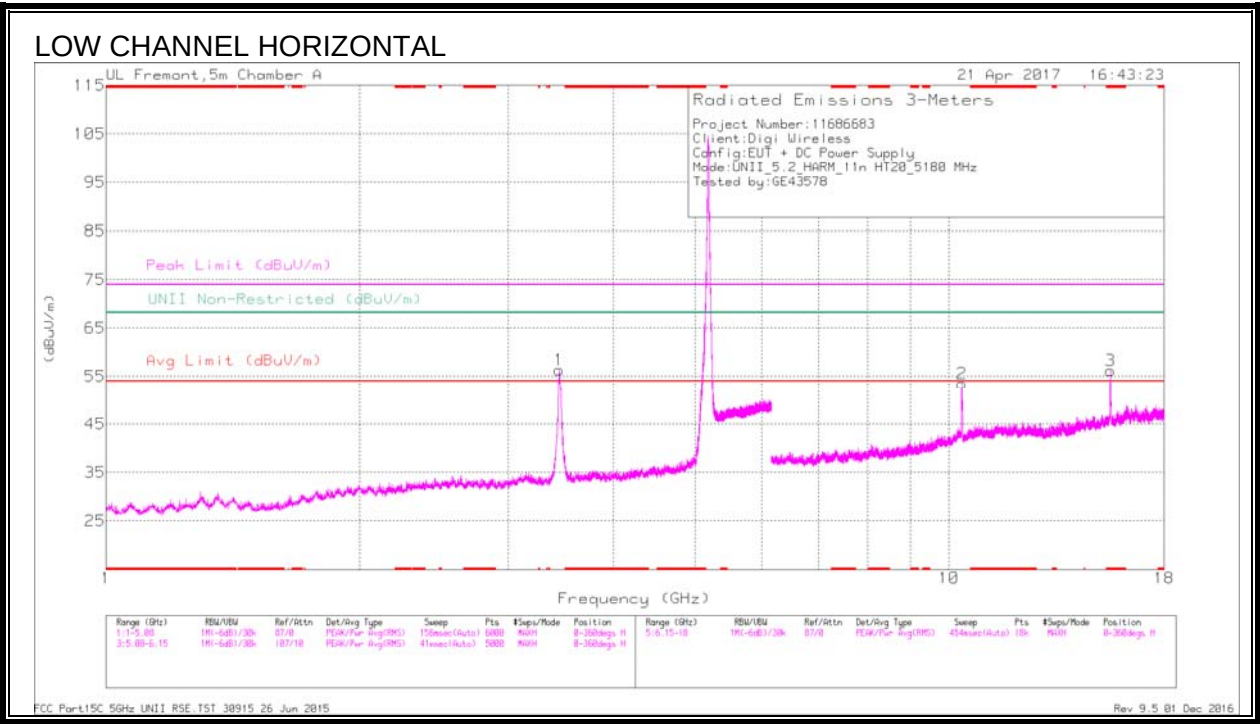
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.15	44.65	Pk	34.1	-18.7	0	60.05	-	-	74	-13.95	324	117	V
2	* 5.15	51.47	Pk	34.1	-18.7	0	66.87	-	-	74	-7.13	324	117	V
3	* 5.15	37.3	RMS	34.1	-18.7	0	52.7	54	-1.3	-	-	324	117	V
4	* 5.15	38.46	RMS	34.1	-18.7	0	53.86	54	-14	-	-	324	117	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5	* 5.076	44.48	Pk	34.1	-25.4	0	53.18	-	-	74	-20.82	-	-	0-360	101	V
3	* 15.543	35.01	Pk	40.3	-19.1	0	56.21	-	-	74	-17.79	-	-	0-360	101	H
6	* 15.547	30.87	Pk	40.3	-19.1	0	52.07	-	-	74	-21.93	-	-	0-360	101	V
1	3.45	53.77	Pk	32.9	-30.3	0	56.37	-	-	-	-	68.2	-11.83	0-360	100	H
4	3.453	55.42	Pk	32.9	-30.3	0	58.02	-	-	-	-	68.2	-10.18	0-360	101	V
2	10.357	36.63	Pk	37.4	-20.5	0	53.53	-	-	-	-	68.2	-14.67	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

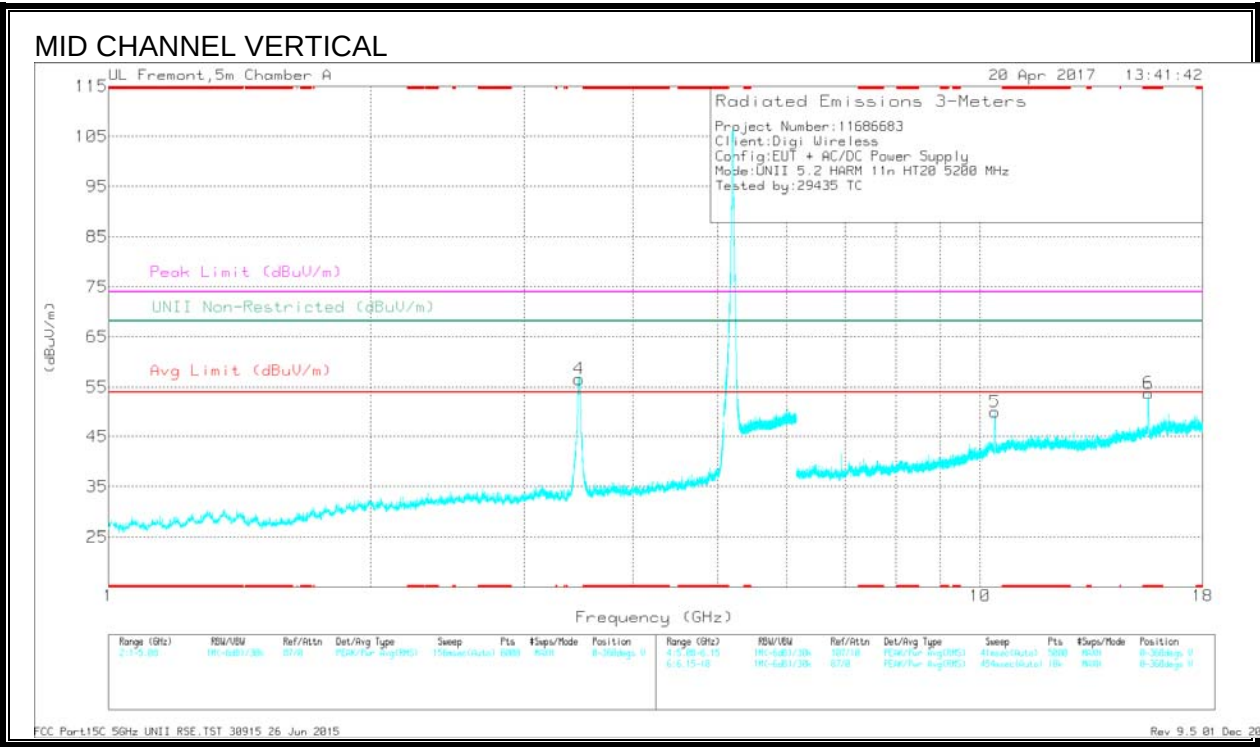
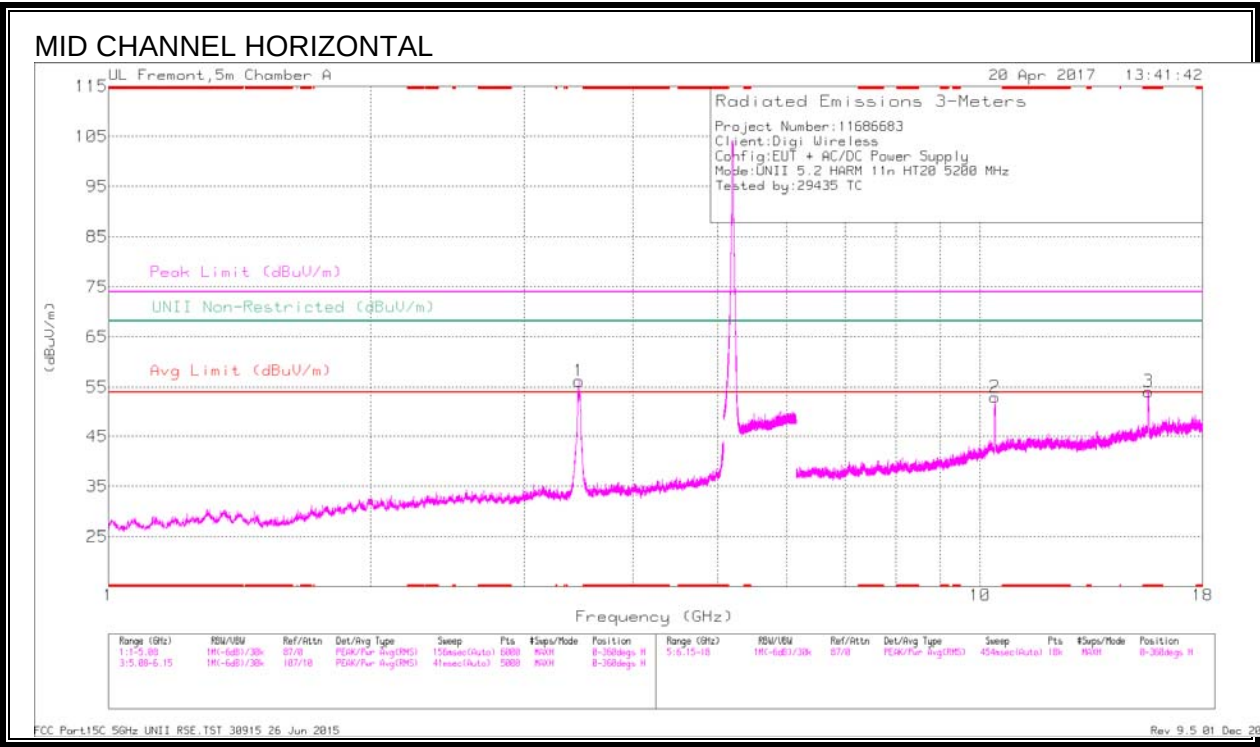
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 5.076	53.95	PK-U	34.1	-25.4	0	62.65	-	-	74	-11.35	-	-	299	101	V
* 5.077	36.3	ADR	34.1	-25.4	0	45	54	-9	-	-	-	-	299	101	V
* 15.551	40.72	PK-U	40.3	-19.2	0	61.82	-	-	74	-12.18	-	-	15	206	H
* 15.542	28.94	ADR	40.3	-19.1	0	50.14	54	-3.86	-	-	-	-	15	206	H
* 15.542	40.19	PK-U	40.3	-19.1	0	61.39	-	-	74	-12.61	-	-	30	104	V
* 15.539	27.72	ADR	40.3	-19.1	0	48.92	54	-5.08	-	-	-	-	30	104	V
3.453	62.59	PK-U	32.9	-30.3	0	65.19	-	-	-	-	68.2	-3.01	111	110	H
3.453	63.67	PK-U	32.9	-30.3	0	66.27	-	-	-	-	68.2	-1.93	305	104	V
10.365	44.29	PK-U	37.4	-20.6	0	61.09	-	-	-	-	68.2	-7.11	196	220	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Af T711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
3	* 15.602	33.9	Pk	40.4	-20.2	0	54.1	-	-	74	-19.9	-	-	0-360	101	H
6	* 15.604	33.55	Pk	40.4	-20.2	0	53.75	-	-	74	-20.25	-	-	0-360	200	V
1	3.467	53.83	Pk	32.9	-30.5	0	56.23	-	-	-	-	68.2	-11.97	0-360	101	H
4	3.468	54.23	Pk	32.9	-30.5	0	56.63	-	-	-	-	68.2	-11.57	0-360	101	V
2	10.397	36.31	Pk	37.4	-20.8	0	52.91	-	-	-	-	68.2	-15.29	0-360	101	H
5	10.401	33.22	Pk	37.5	-20.8	0	49.92	-	-	-	-	68.2	-18.28	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

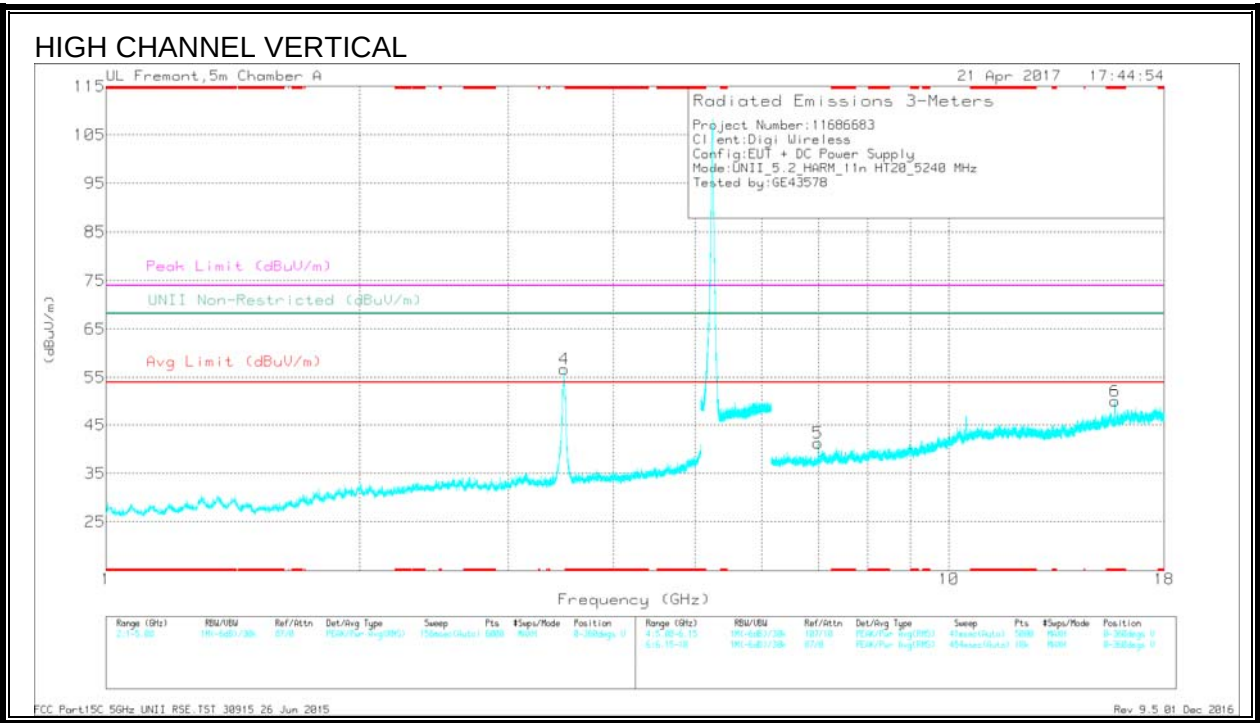
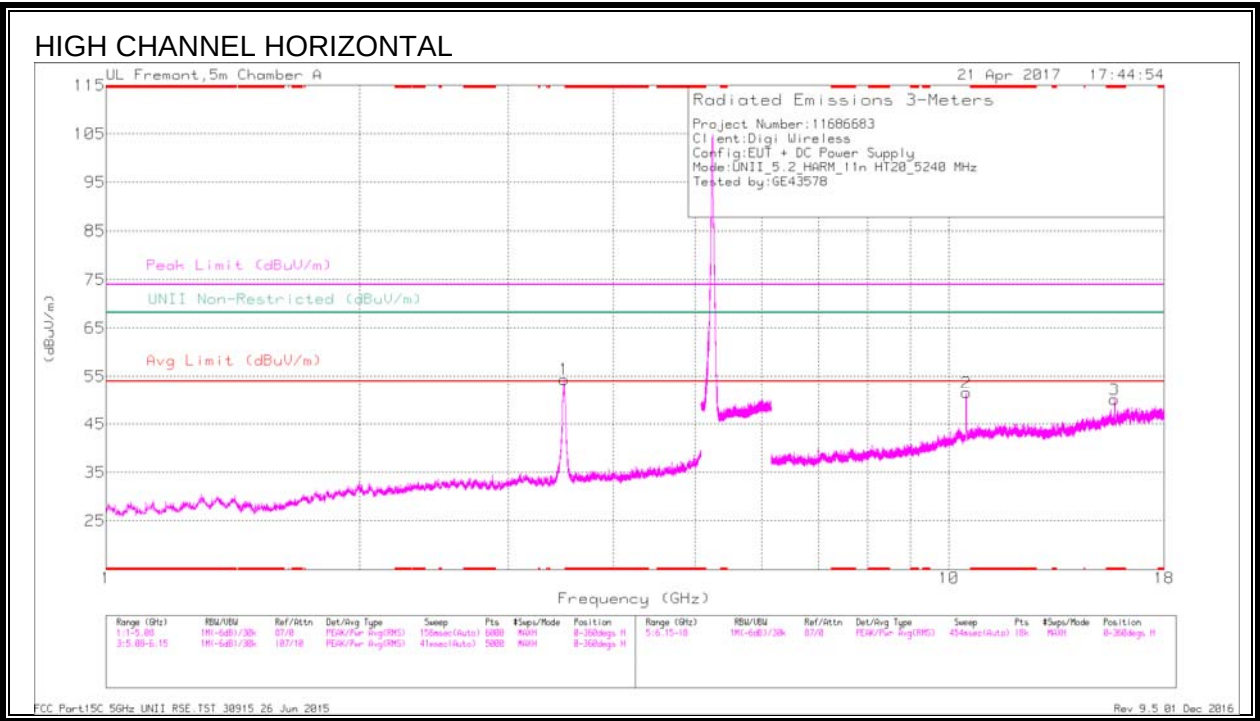
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Af T711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 15.601	42.27	PK-U	40.4	-20.1	0	62.57	-	-	74	-11.43	-	-	162	123	H
* 15.6	29.81	ADR	40.4	-20.1	0	50.11	54	-3.89	-	-	-	-	162	123	H
* 15.606	40.58	PK-U	40.4	-20.2	0	60.78	-	-	74	-13.22	-	-	150	231	V
* 15.602	28.17	ADR	40.4	-20.2	0	48.37	54	-5.63	-	-	-	-	150	231	V
3.467	61.95	PK-U	32.9	-30.5	0	64.35	-	-	-	-	68.2	-3.85	171	277	H
10.399	41.96	PK-U	37.5	-20.8	0	58.66	-	-	-	-	68.2	-9.54	6	106	H
10.403	40.65	PK-U	37.5	-20.8	0	57.35	-	-	-	-	68.2	-10.85	360	227	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
3	* 15.72	30.76	Pk	40.4	-21	0	50.16	-	-	74	-23.84	-	-	0-360	199	H
6	* 15.725	30.6	Pk	40.4	-21	0	50	-	-	74	-24	-	-	0-360	101	V
1	3.493	51.65	Pk	33	-30.3	0	54.35	-	-	-	-	68.2	-13.85	0-360	102	H
4	3.493	54.07	Pk	33	-30.3	0	56.77	-	-	-	-	68.2	-11.43	0-360	200	V
5	6.987	31.1	Pk	35.4	-25.2	0	41.3	-	-	-	-	68.2	-26.9	0-360	101	V
2	10.481	34.8	Pk	37.6	-20.8	0	51.6	-	-	-	-	68.2	-16.6	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 15.709	36.89	PK-U	40.4	-21.1	0	56.19	-	-	74	-17.81	-	-	27	217	H
* 15.719	25.21	ADR	40.4	-21.1	0	44.51	54	-9.49	-	-	-	-	27	217	H
* 15.717	38.14	PK-U	40.4	-21.1	0	57.44	-	-	74	-16.56	-	-	36	104	V
* 15.719	25.26	ADR	40.4	-21.1	0	45.56	54	-8.44	-	-	-	-	36	104	V
3.493	59.76	PK-U	33	-30.3	0	62.46	-	-	-	-	68.2	-5.74	113	134	H
3.493	62.1	PK-U	33	-30.3	0	64.8	-	-	-	-	68.2	-3.4	153	165	V
6.987	37.68	PK-U	35.4	-25.2	0	47.88	-	-	-	-	68.2	-20.32	239	107	V
10.48	42.34	PK-U	37.6	-20.8	0	59.14	-	-	-	-	68.2	-9.06	202	205	H

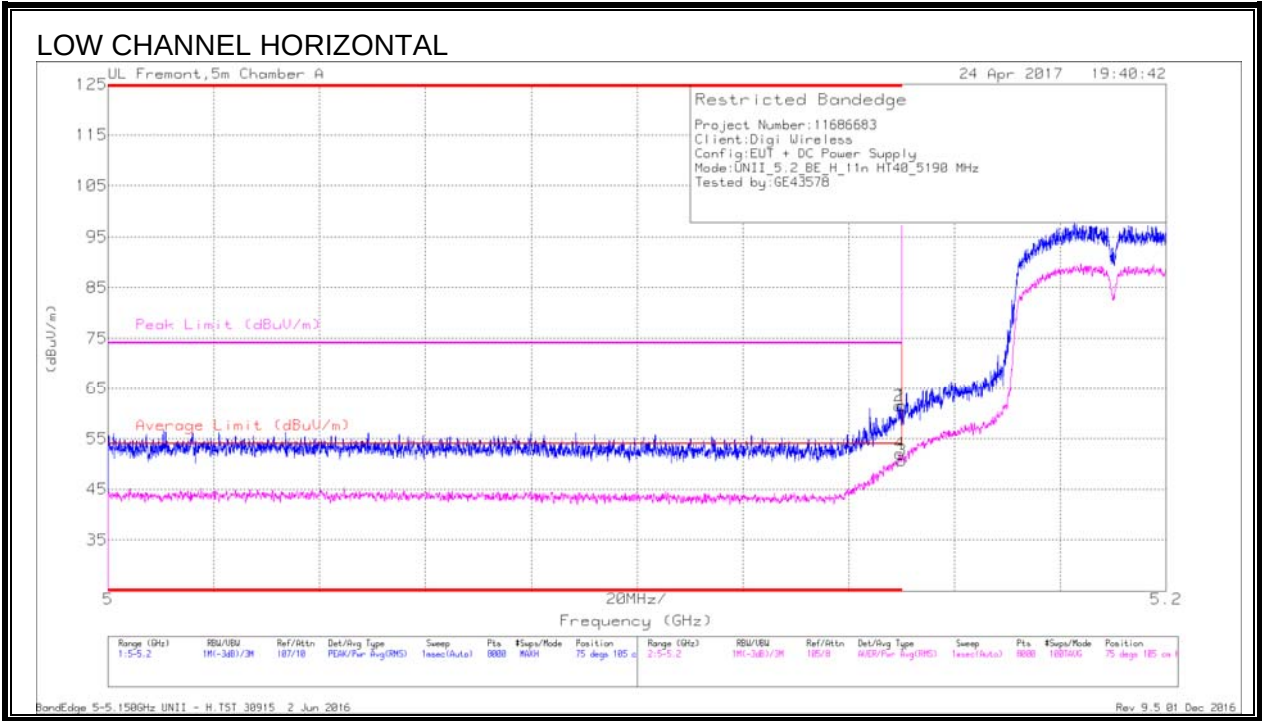
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.3. 11n HT40 MODE IN THE 5.2GHz BAND

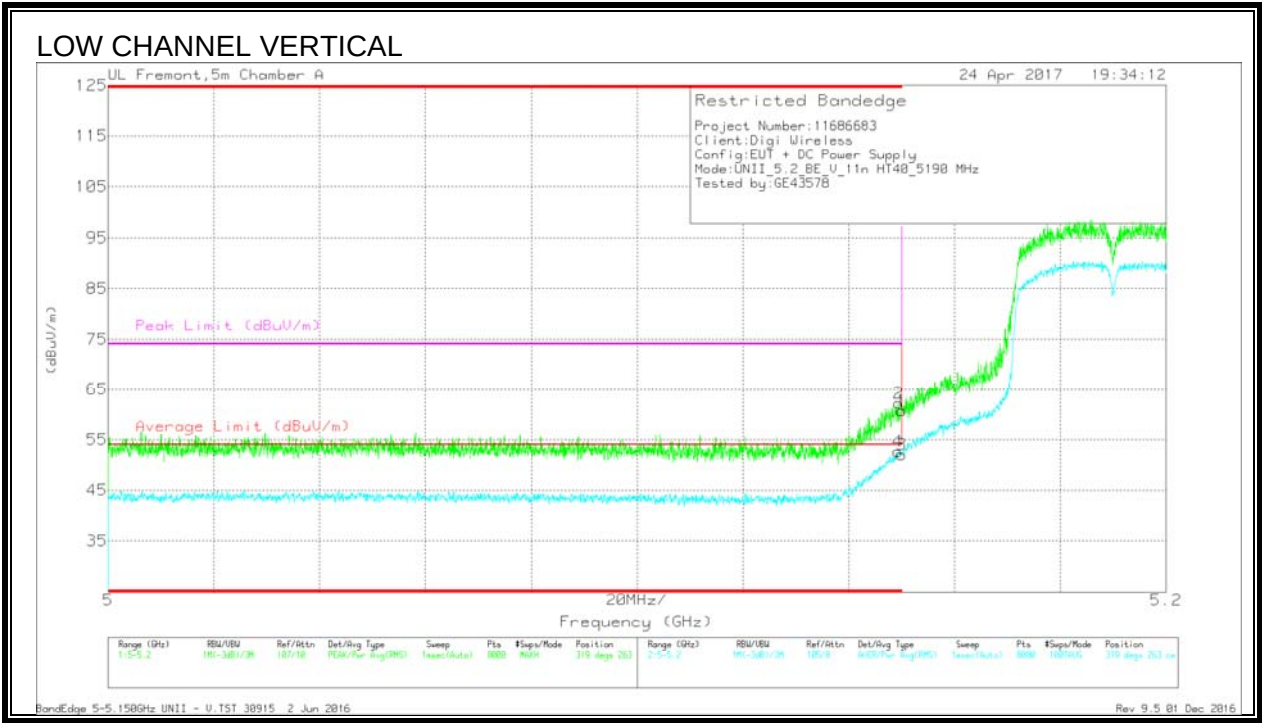
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT711 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.13	Pk	34.1	-18.7	0	61.53	-	-	74	-12.47	75	105	H
2	* 5.15	45.98	Pk	34.1	-18.6	0	61.48	-	-	74	-12.52	75	105	H
3	* 5.15	35.12	RMS	34.1	-18.7	.17	50.69	54	-3.31	-	-	75	105	H
4	* 5.15	36.34	RMS	34.1	-18.6	.17	52.01	54	-1.99	-	-	75	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection



Trace Markers

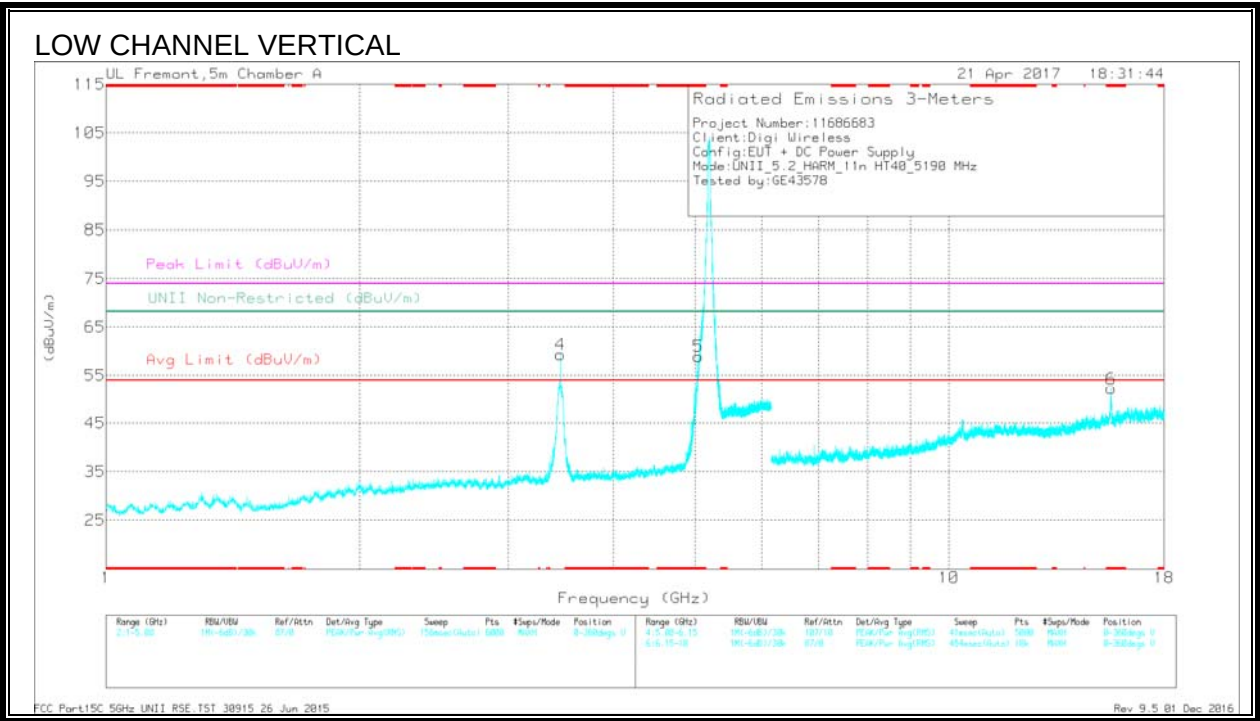
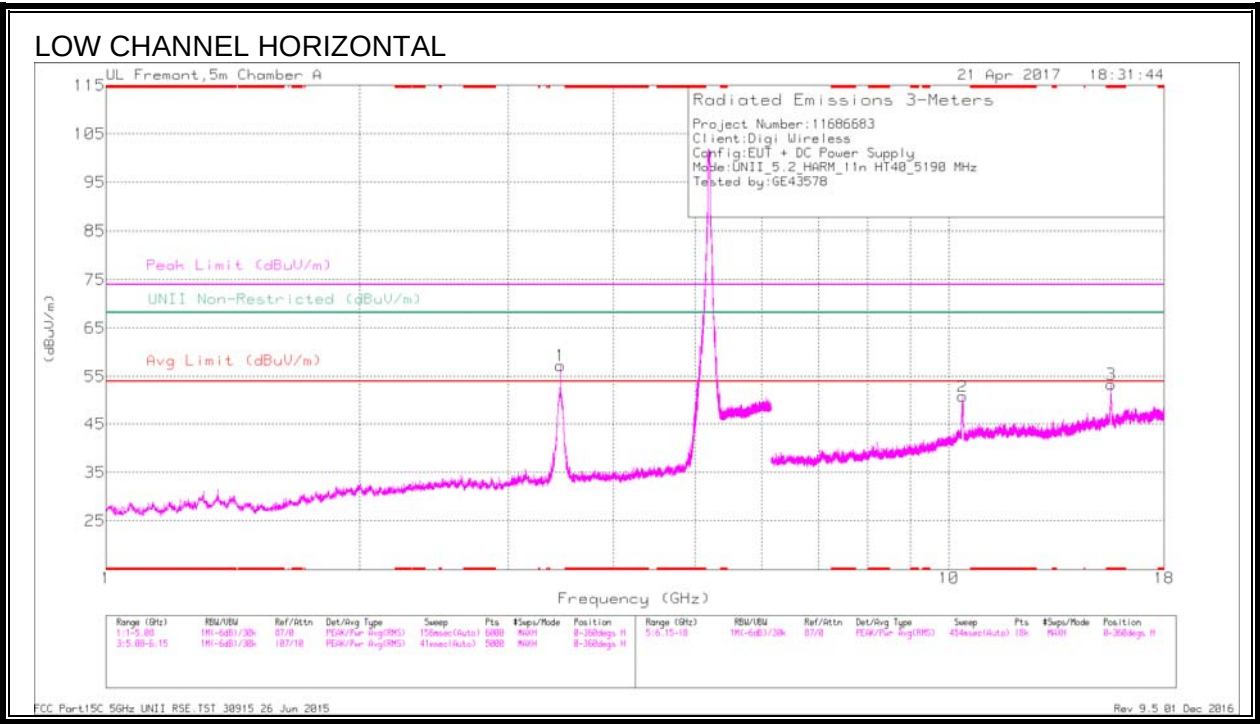
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.15	45.27	Pk	34.1	-18.7	0	60.67	-	-	74	-13.33	319	263	V
2	* 5.149	46.69	Pk	34.1	-18.6	0	62.19	-	-	74	-11.81	319	263	V
3	* 5.15	36.49	RMS	34.1	-18.7	.17	52.06	54	-1.94	-	-	319	263	V
4	* 5.149	36.97	RMS	34.1	-18.6	.17	52.64	54	-1.36	-	-	319	263	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5	* 5.043	51.16	Pk	34.1	-26.3	0	58.96	-	-	74	-15.04	-	-	0-360	101	V
3	* 15.575	32.4	Pk	40.4	-19.5	0	53.3	-	-	74	-20.7	-	-	0-360	199	H
6	* 15.565	31.21	Pk	40.3	-19.3	0	52.21	-	-	74	-21.79	-	-	0-360	101	V
1	3.461	54.87	Pk	32.9	-30.5	0	57.27	-	-	-	-	68.2	-10.93	0-360	102	H
4	3.461	56.88	Pk	32.9	-30.5	0	59.28	-	-	-	-	68.2	-8.92	0-360	200	V
2	10.381	34.35	Pk	37.4	-21	0	50.75	-	-	-	-	68.2	-17.45	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

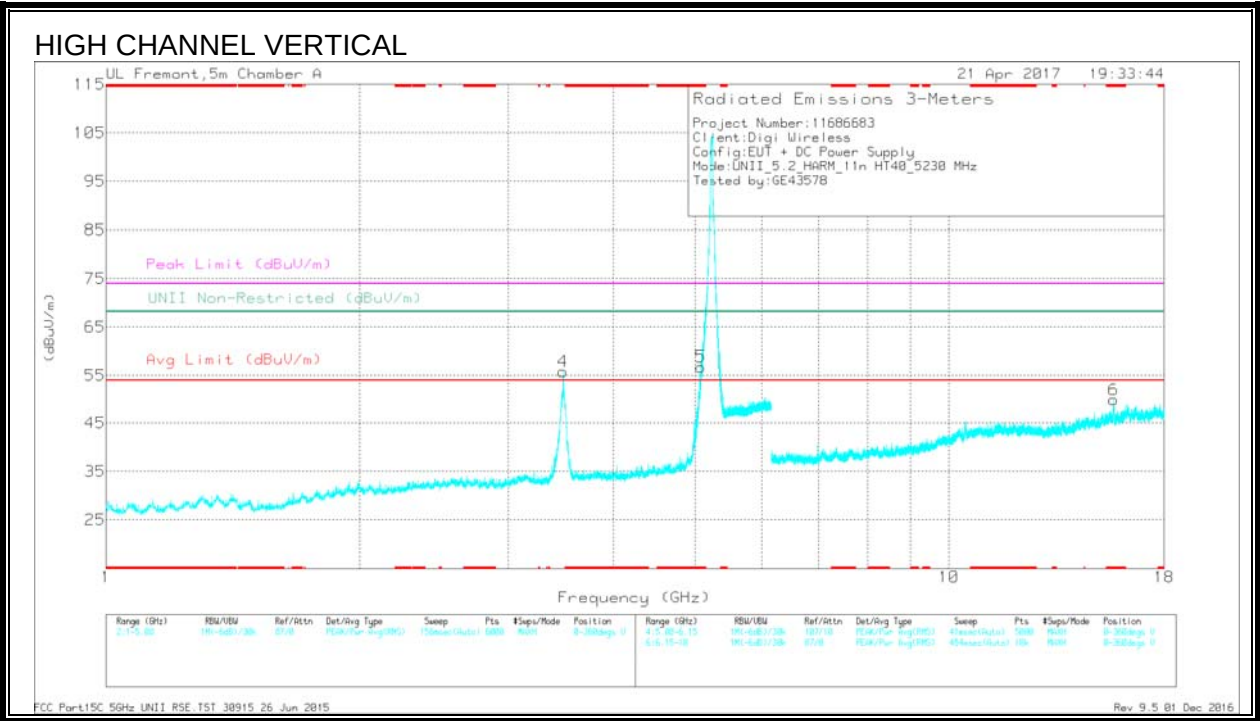
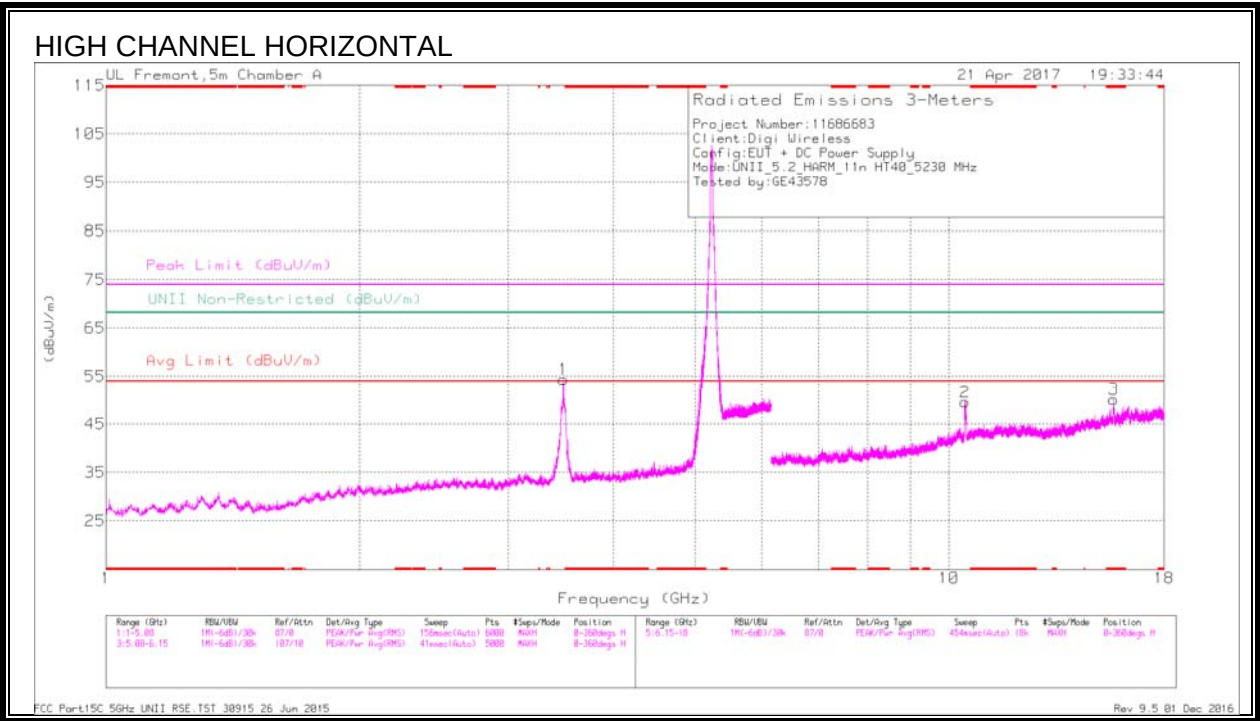
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 5.045	56.52	PK-U	34.1	-26.1	0	64.52	-	-	74	-9.48	-	-	308	150	V
* 5.043	41.81	ADR	34.1	-26.3	.17	49.78	54	-4.22	-	-	-	-	308	150	V
* 15.576	38.21	PK-U	40.4	-19.5	0	59.11	-	-	74	-14.89	-	-	23	220	H
* 15.572	26.94	ADR	40.4	-19.4	.17	48.11	54	-5.89	-	-	-	-	23	220	H
* 15.564	37.22	PK-U	40.3	-19.3	0	58.22	-	-	74	-15.78	-	-	32	102	V
* 15.569	26.08	ADR	40.3	-19.3	.17	47.25	54	-6.75	-	-	-	-	32	102	V
3.46	59.86	PK-U	32.9	-30.5	0	62.26	-	-	-	-	68.2	-5.94	110	103	H
3.46	62.39	PK-U	32.9	-30.5	0	64.79	-	-	-	-	68.2	-3.41	154	145	V
10.377	41.33	PK-U	37.4	-21.1	0	57.63	-	-	-	-	68.2	-10.57	198	198	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
5	* 5.079	48.2	Pk	34.1	-25.5	0	56.8	-	-	74	-17.2	-	-	0-360	200	V
3	* 15.68	30.58	Pk	40.4	-20.8	0	50.18	-	-	74	-23.82	-	-	0-360	199	H
6	* 15.689	30.4	Pk	40.4	-20.9	0	49.9	-	-	74	-24.1	-	-	0-360	101	V
4	3.485	53.39	Pk	32.9	-30.5	0	55.79	-	-	-	-	68.2	-12.41	0-360	200	V
1	3.488	51.83	Pk	33	-30.4	0	54.43	-	-	-	-	68.2	-13.77	0-360	102	H
2	10.45	32.7	Pk	37.5	-20.6	0	49.6	-	-	-	-	68.2	-18.6	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 5.079	54.93	PK-U	34.1	-25.5	0	63.53	-	-	74	-10.47	-	-	330	236	V
* 5.079	41.65	ADR	34.1	-25.5	17	50.42	54	-3.58	-	-	-	-	330	236	V
* 15.678	36	PK-U	40.4	-20.8	0	55.6	-	-	74	-18.4	-	-	27	220	H
* 15.677	24.83	ADR	40.4	-20.8	17	44.6	54	-9.4	-	-	-	-	27	220	H
* 15.676	37.46	PK-U	40.4	-20.8	0	57.06	-	-	74	-16.94	-	-	39	102	V
* 15.682	25.04	ADR	40.4	-20.8	17	44.81	54	-9.19	-	-	-	-	39	102	V
3.487	58.08	PK-U	33	-30.4	0	60.68	-	-	-	-	68.2	-7.52	33	208	H
3.487	60.3	PK-U	33	-30.4	0	62.9	-	-	-	-	68.2	-5.3	150	174	V
10.456	39.58	PK-U	37.5	-20.6	0	56.48	-	-	-	-	68.2	-11.72	202	206	H

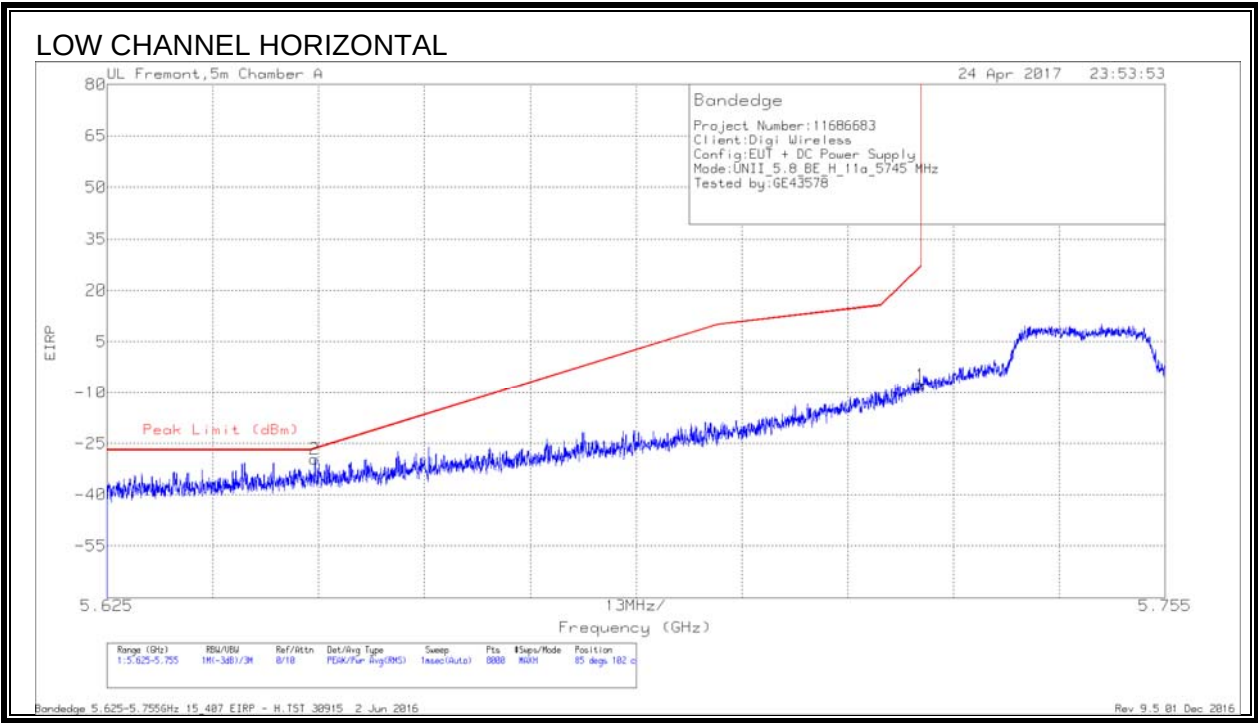
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.4. 11a MODE IN THE 5.8GHz BAND

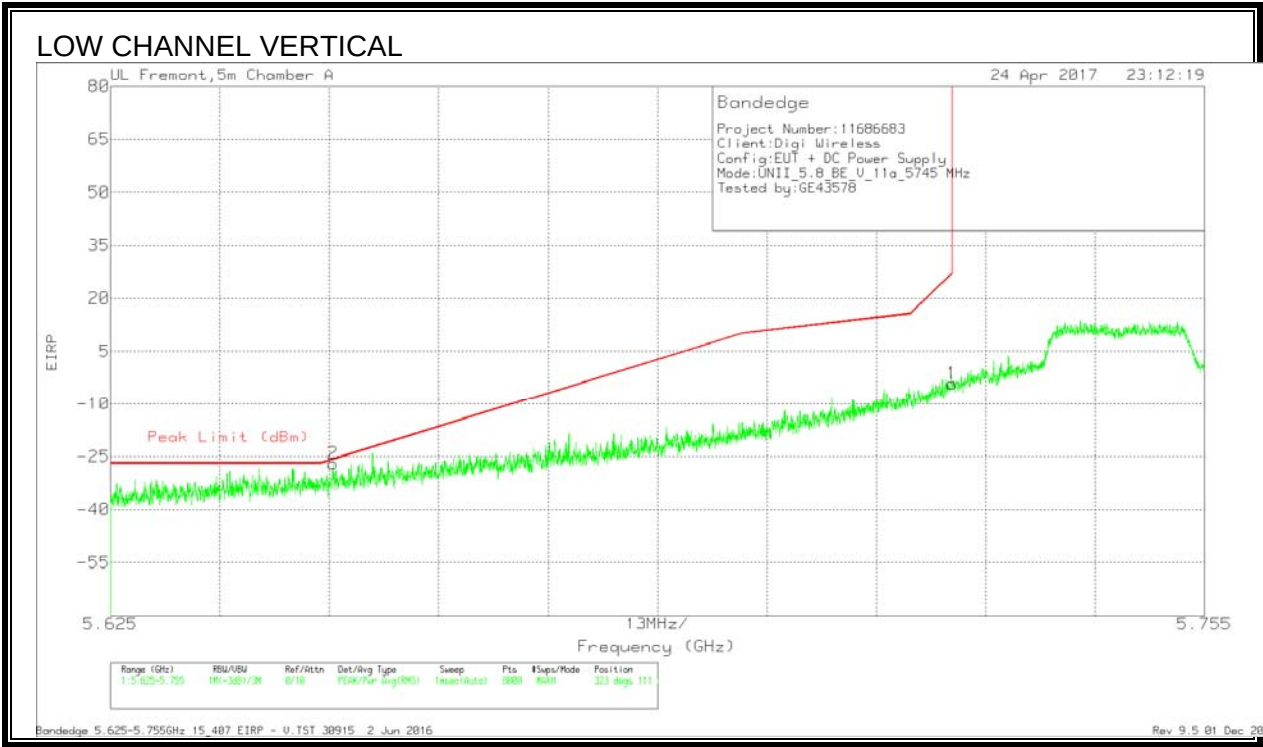
RESTRICTED BANDEDGE (LOW CHANNEL)



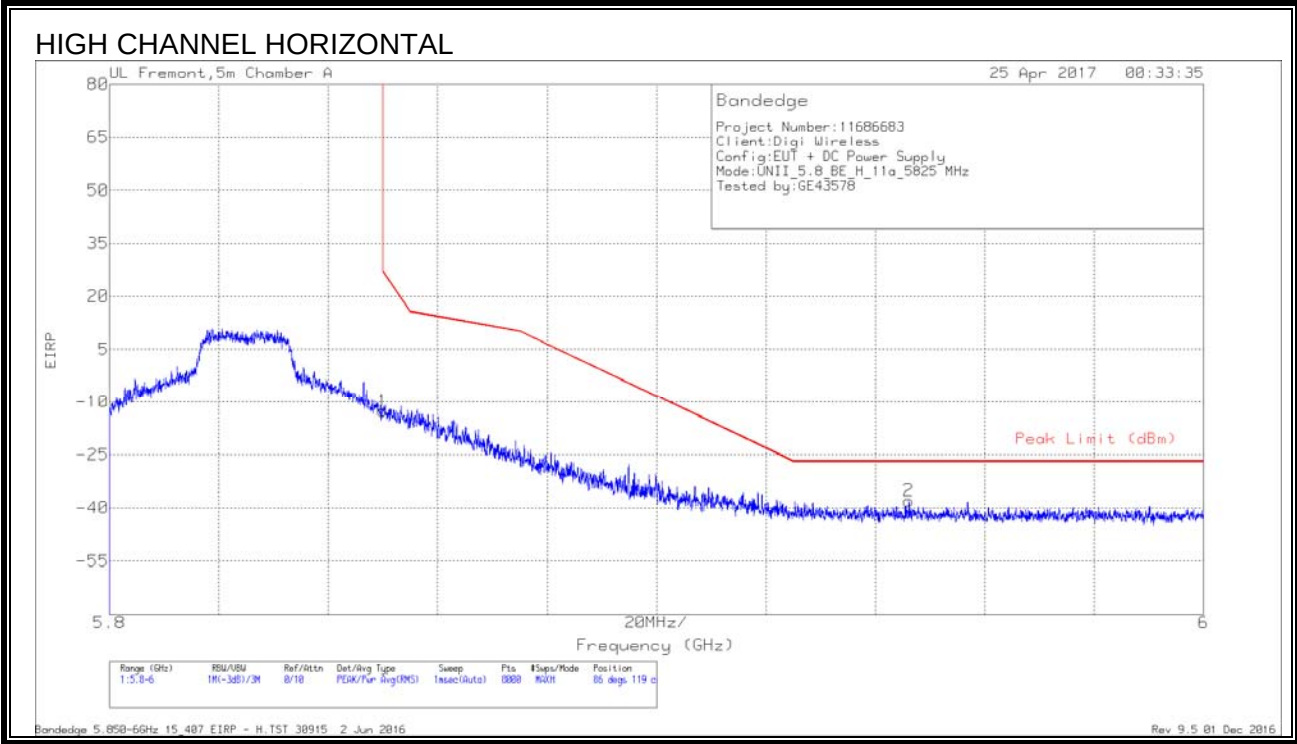
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Filtr/Par d (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.651	-57.04	Pk	34.7	-19	11.8	-29.54	-26.59	-2.95	85	102	H
1	5.725	-35.17	Pk	34.8	-19	11.8	-7.57	27	-34.57	85	102	H

Pk - Peak detector



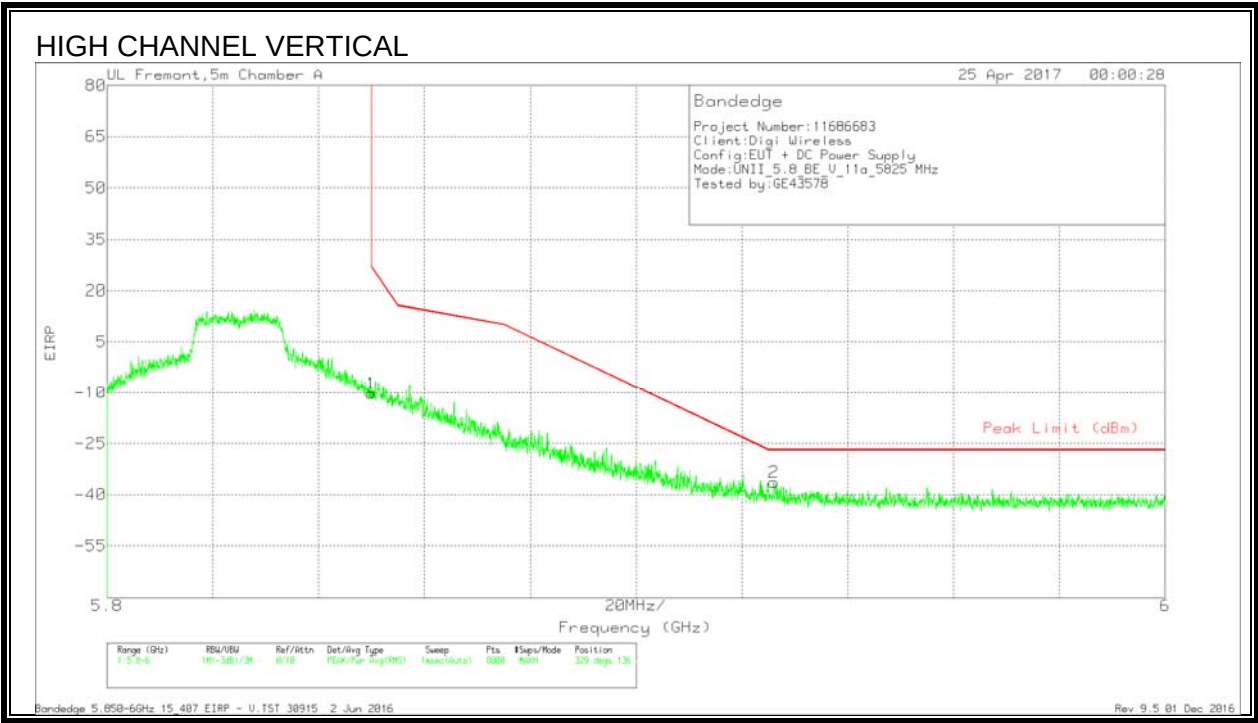
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-40.41	Pk	34.8	-18.8	11.8	-12.61	26.99	-39.6	86	119	H
2	5.946	-66.47	Pk	35.1	-18.5	11.8	-38.07	-27	-11.07	86	119	H

Pk - Peak detector

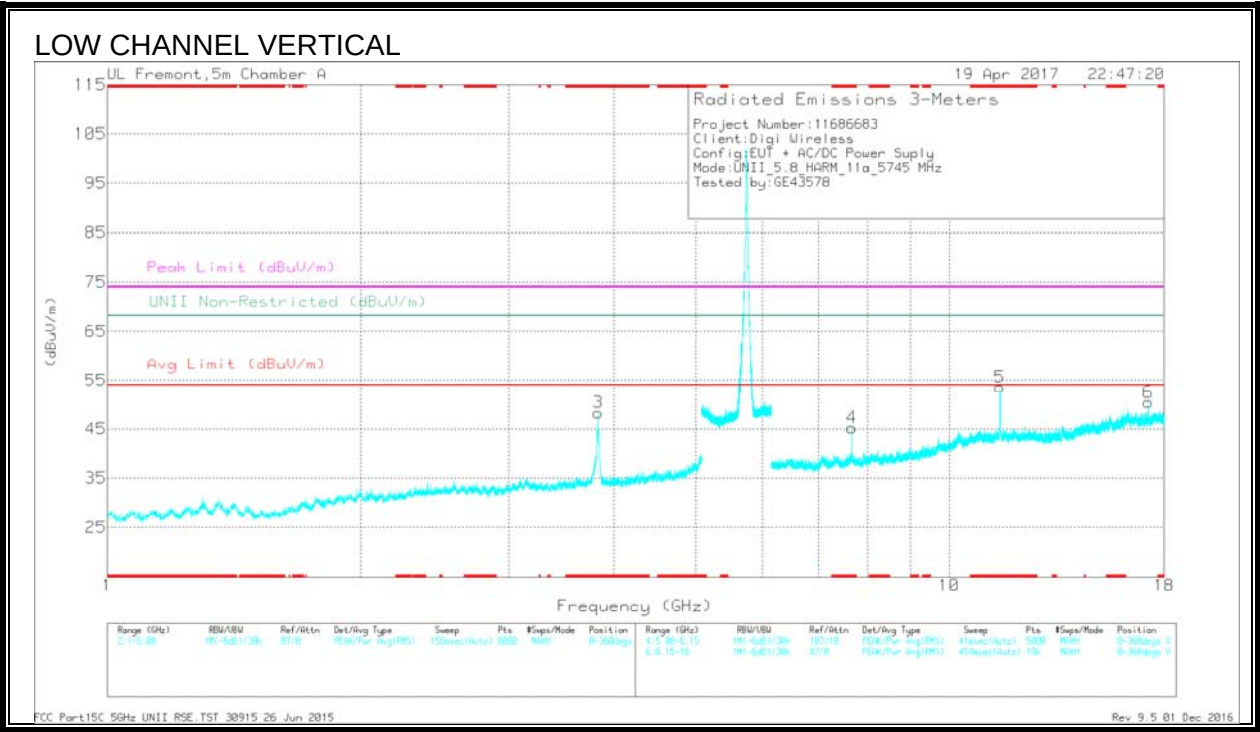
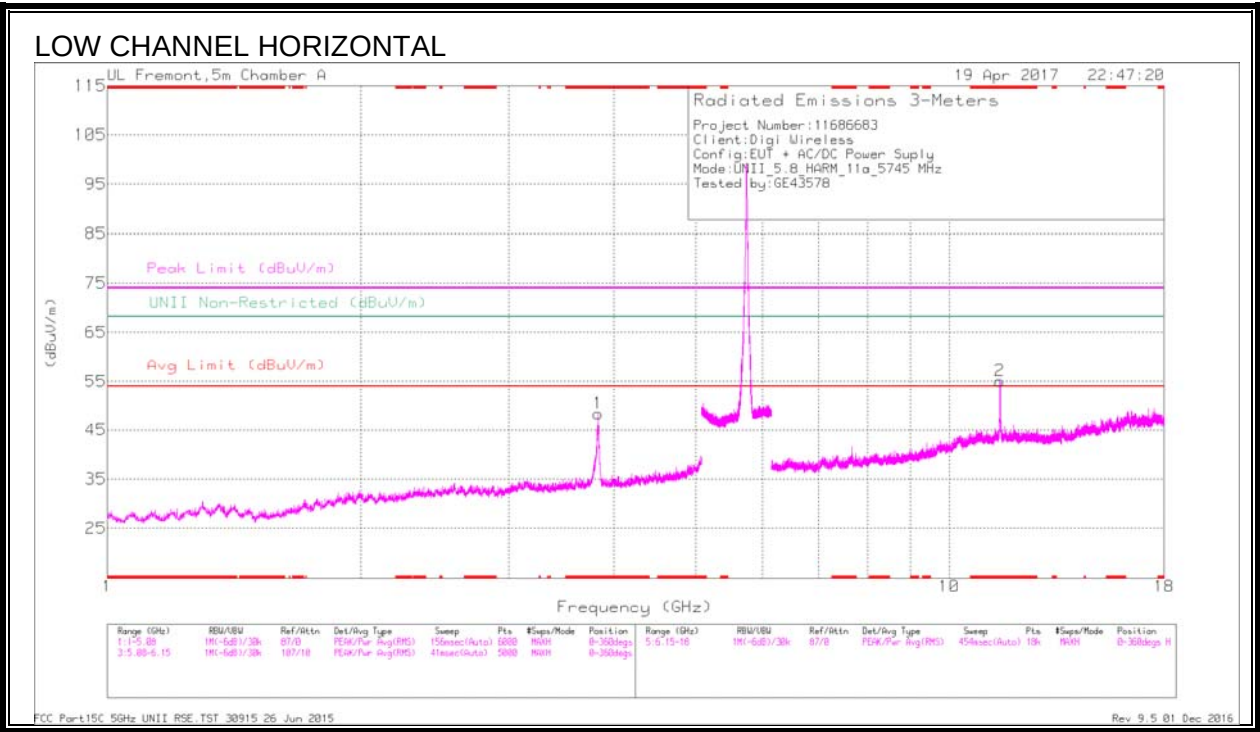


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-37.96	Pk	34.8	-18.8	11.8	-10.16	26.99	-37.15	329	136	V
2	5.926	-64.47	Pk	35	-18.7	11.8	-36.37	-27	-9.37	329	136	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/F/R/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.83	44.95	Pk	33.2	-29.8	0	48.35	-	-	74	-25.65	-	-	0-360	102	H
3	* 3.83	44.94	Pk	33.2	-29.8	0	48.34	-	-	74	-25.66	-	-	0-360	200	V
2	* 11.491	36.72	Pk	38.1	-19.7	0	55.12	-	-	74	-18.88	-	-	0-360	199	H
4	* 7.66	32.95	Pk	35.6	-23.3	0	45.25	-	-	74	-28.75	-	-	0-360	101	V
5	* 11.487	35.13	Pk	38.1	-19.6	0	53.63	-	-	74	-20.37	-	-	0-360	200	V
6	17.232	30.1	Pk	41.4	-21	0	50.5	-	-	-	-	68.2	-17.7	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

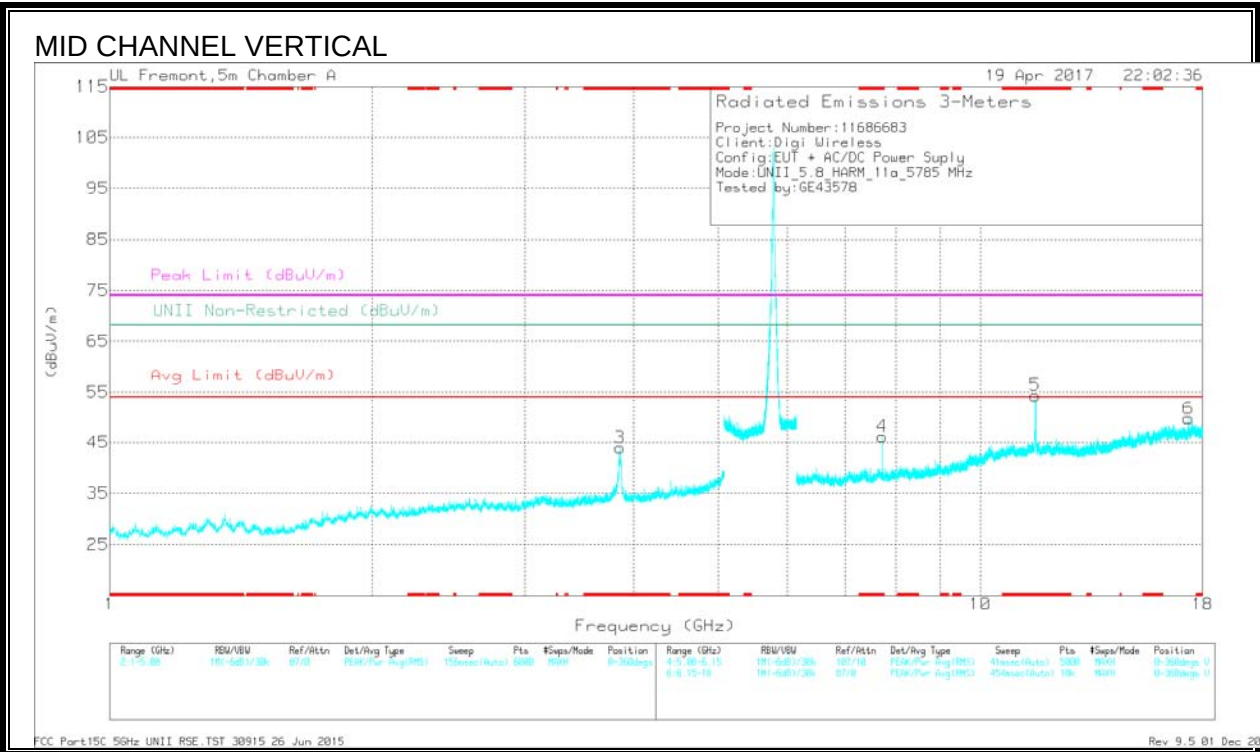
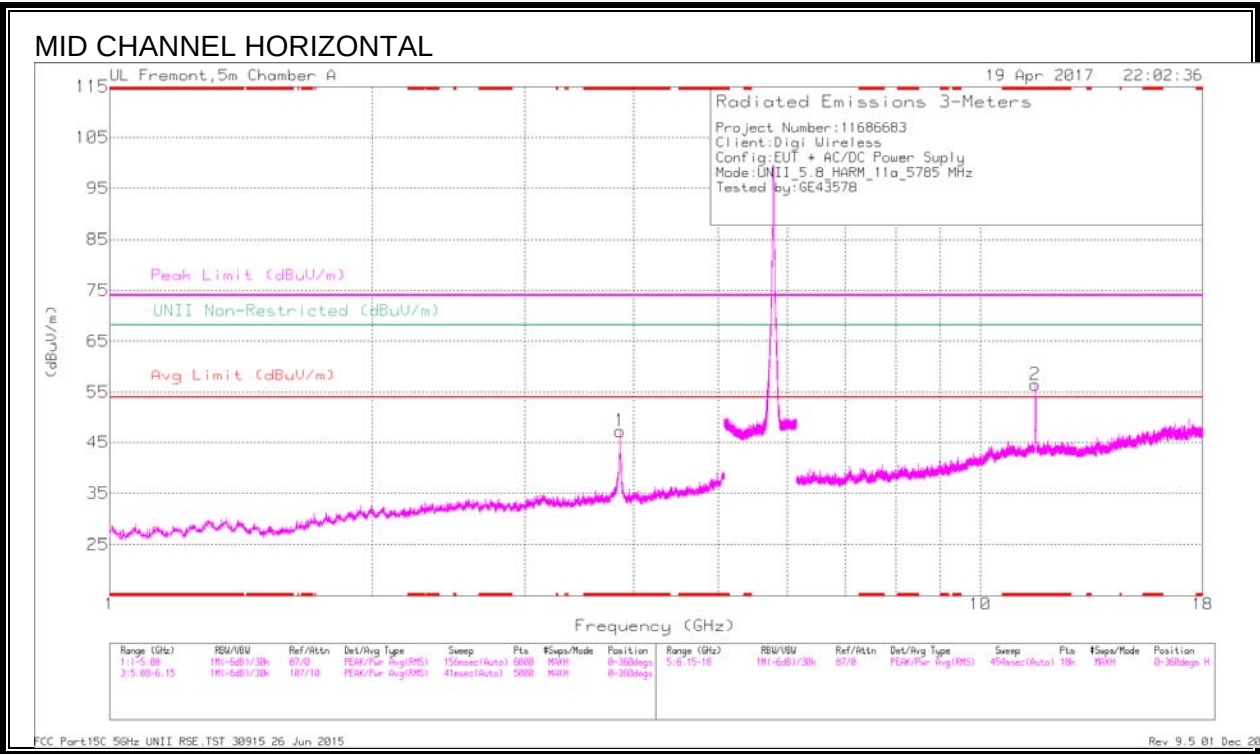
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/F/R/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.83	51.89	PK-U	33.2	-29.8	0	55.29	-	-	74	-18.71	-	-	108	103	H
* 3.83	42.41	ADR	33.2	-29.8	0	45.81	54	-8.19	-	-	-	-	108	103	H
* 3.83	51.71	PK-U	33.2	-29.8	0	55.11	-	-	74	-18.89	-	-	144	169	V
* 3.83	41.72	ADR	33.2	-29.8	0	45.12	54	-8.88	-	-	-	-	144	169	V
* 11.494	45.18	PK-U	38.1	-19.7	0	63.58	-	-	74	-10.42	-	-	88	214	H
* 11.491	33.45	ADR	38.1	-19.7	0	51.85	54	-2.15	-	-	-	-	88	214	H
* 7.66	38.1	PK-U	35.6	-23.3	0	50.4	-	-	74	-23.6	-	-	214	101	V
* 7.66	32.54	ADR	35.6	-23.3	0	44.84	54	-9.16	-	-	-	-	214	101	V
* 11.489	41.72	PK-U	38.1	-19.6	0	60.22	-	-	74	-13.78	-	-	188	204	V
* 11.491	30.36	ADR	38.1	-19.6	0	48.86	54	-5.14	-	-	-	-	188	204	V
17.234	36.6	PK-U	41.4	-21	0	57	-	-	-	-	68.2	-11.2	178	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.856	44.01	Pk	33.3	-30.1	0	47.21	-	-	74	-26.79	-	-	0-360	101	H
3	* 3.856	40.75	Pk	33.3	-30.1	0	43.95	-	-	74	-30.05	-	-	0-360	101	V
2	* 11.569	38.68	Pk	38.1	-20.3	0	56.48	-	-	74	-17.52	-	-	0-360	199	H
4	* 7.713	34.68	Pk	35.6	-24.2	0	46.08	-	-	74	-27.92	-	-	0-360	101	V
5	* 11.571	36.56	Pk	38.1	-20.3	0	54.36	-	-	74	-19.64	-	-	0-360	101	V
6	17.344	29.18	Pk	41.5	-21	0	49.68	-	-	-	-	68.2	-18.52	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

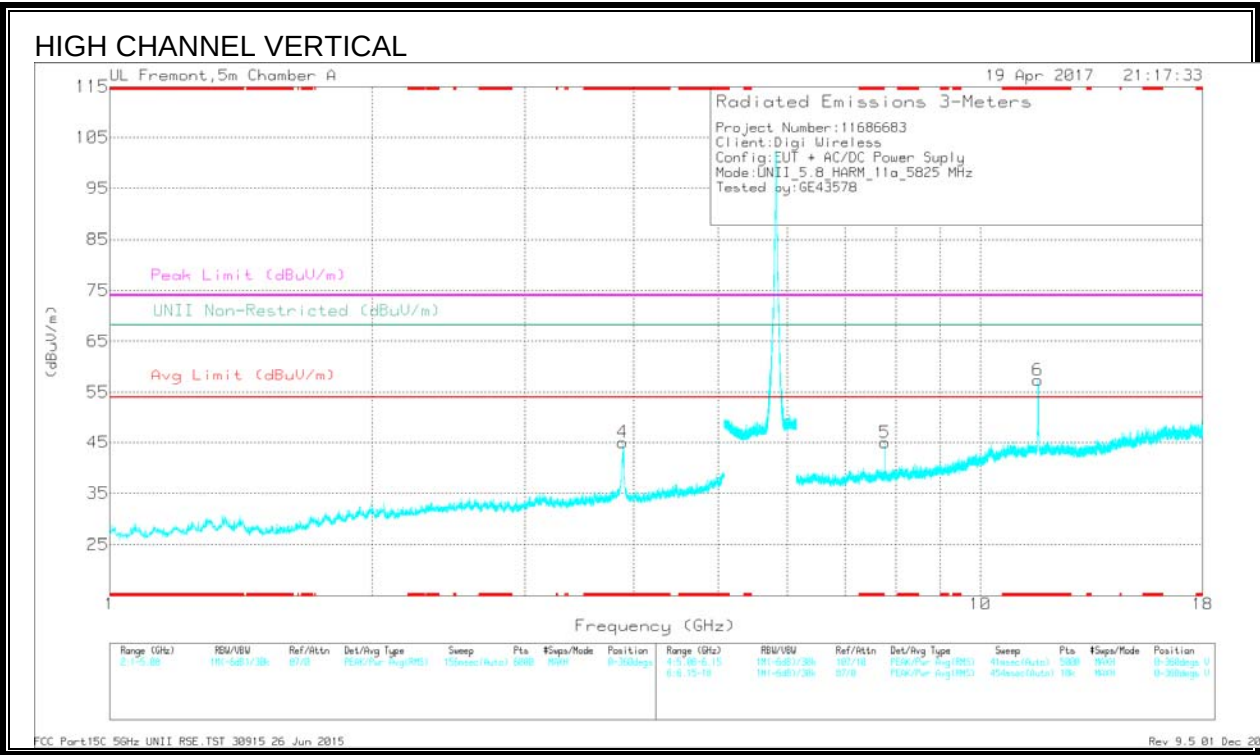
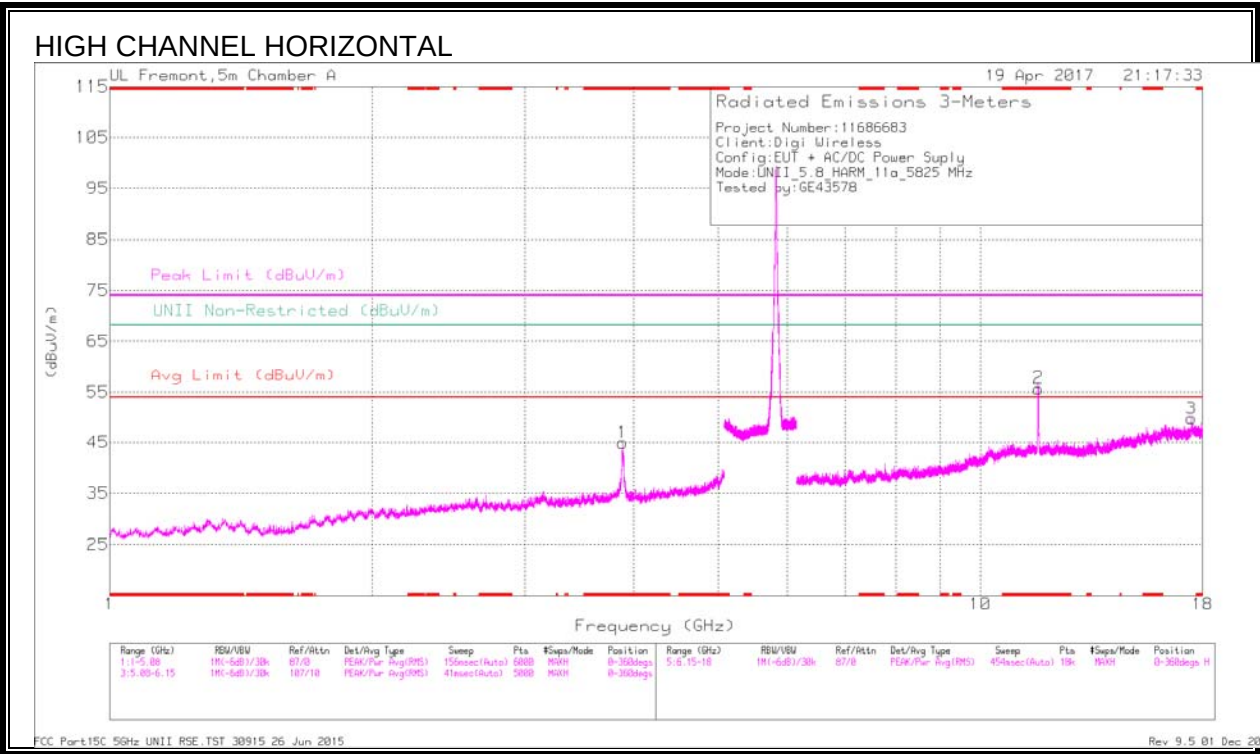
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.857	49.63	PK-U	33.3	-30.1	0	52.83	-	-	74	-21.17	-	-	16	101	H
* 3.857	38.99	ADR	33.3	-30.1	0	42.19	54	-11.81	-	-	-	-	16	101	H
* 3.857	49.14	PK-U	33.3	-30.1	0	52.34	-	-	74	-21.66	-	-	328	102	V
* 3.857	39.3	ADR	33.3	-30.1	0	42.5	54	-11.5	-	-	-	-	328	102	V
* 11.57	46.74	PK-U	38.1	-20.3	0	64.54	-	-	74	-9.46	-	-	89	211	H
* 11.569	34.22	ADR	38.1	-20.3	0	52.02	54	-1.98	-	-	-	-	89	211	H
* 7.713	38.81	PK-U	35.6	-24.2	0	50.21	-	-	74	-23.79	-	-	216	102	V
* 7.713	33.57	ADR	35.6	-24.2	0	44.97	54	-9.03	-	-	-	-	216	102	V
* 11.566	43.02	PK-U	38.1	-20.3	0	60.82	-	-	74	-13.18	-	-	98	212	V
* 11.569	30.69	ADR	38.1	-20.3	0	48.49	54	-5.51	-	-	-	-	98	212	V
17.354	36.25	PK-U	41.5	-21.1	0	56.65	-	-	-	-	68.2	-11.55	93	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.883	42.12	Pk	33.3	-30.5	0	44.92	-	-	74	-29.08	-	-	0-360	101	H
4	* 3.883	42.18	Pk	33.3	-30.5	0	44.98	-	-	74	-29.02	-	-	0-360	200	V
2	* 11.657	36.74	Pk	38.2	-19.2	0	55.74	-	-	74	-18.26	-	-	0-360	101	H
6	* 11.647	38.44	Pk	38.2	-19.3	0	57.34	-	-	74	-16.66	-	-	0-360	101	V
5	7.766	33.76	Pk	35.6	-24.4	0	44.96	-	-	-	-	68.2	-23.24	0-360	101	V
3	17.476	28.78	Pk	41.6	-20.7	0	49.68	-	-	-	-	68.2	-18.52	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.883	49.74	PK-U	33.3	-30.5	0	52.54	-	-	74	-21.46	-	-	96	101	H
* 3.883	39.72	ADR	33.3	-30.5	0	42.52	54	-11.48	-	-	-	-	96	101	H
* 3.883	50.34	PK-U	33.3	-30.5	0	53.14	-	-	74	-20.86	-	-	140	199	V
* 3.883	39.33	ADR	33.3	-30.5	0	42.13	54	-11.87	-	-	-	-	140	199	V
* 11.661	44.26	PK-U	38.2	-19.4	0	63.06	-	-	74	-10.94	-	-	111	225	H
* 11.649	32.86	ADR	38.2	-19.3	0	51.76	54	-2.24	-	-	-	-	111	225	H
* 11.647	44.87	PK-U	38.2	-19.3	0	63.77	-	-	74	-10.23	-	-	280	101	V
* 11.651	33.57	ADR	38.2	-19.3	0	52.47	54	-1.53	-	-	-	-	280	101	V
7.767	38.45	PK-U	35.6	-24.4	0	49.65	-	-	-	-	68.2	-18.55	212	103	V
17.473	35.27	PK-U	41.6	-20.7	0	56.17	-	-	-	-	68.2	-12.03	359	101	H

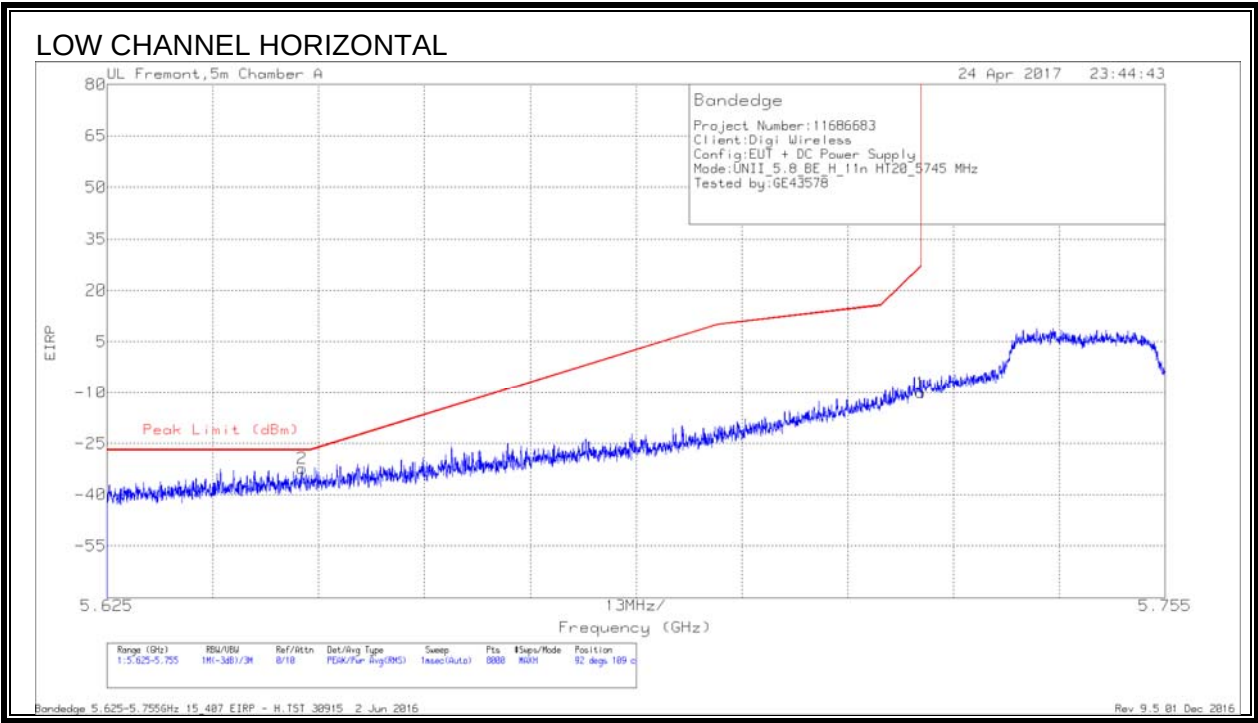
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.5. 11n HT20 MODE IN THE 5.8GHz BAND

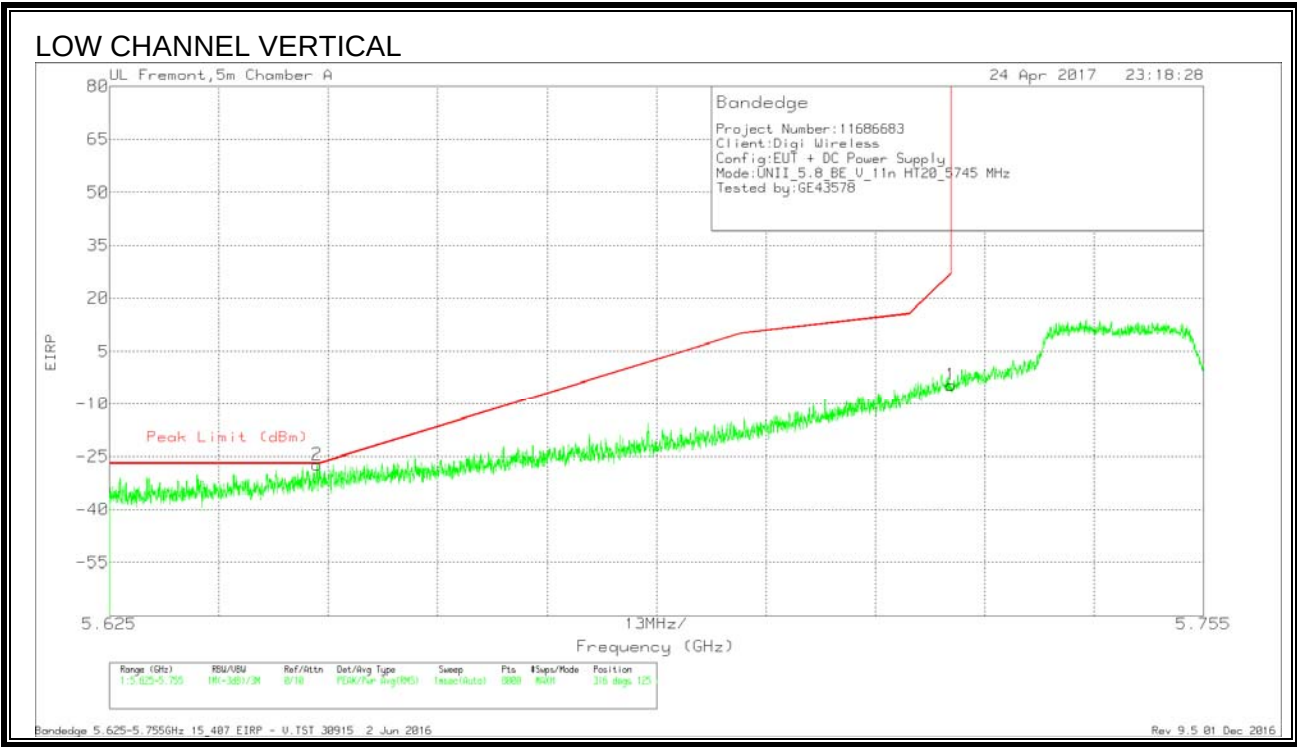
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-59.83	Pk	34.7	-19	11.8	-32.33	-27	-5.33	92	109	H
1	5.725	-37.57	Pk	34.8	-19	11.8	-9.97	27	-36.97	92	109	H

Pk - Peak detector

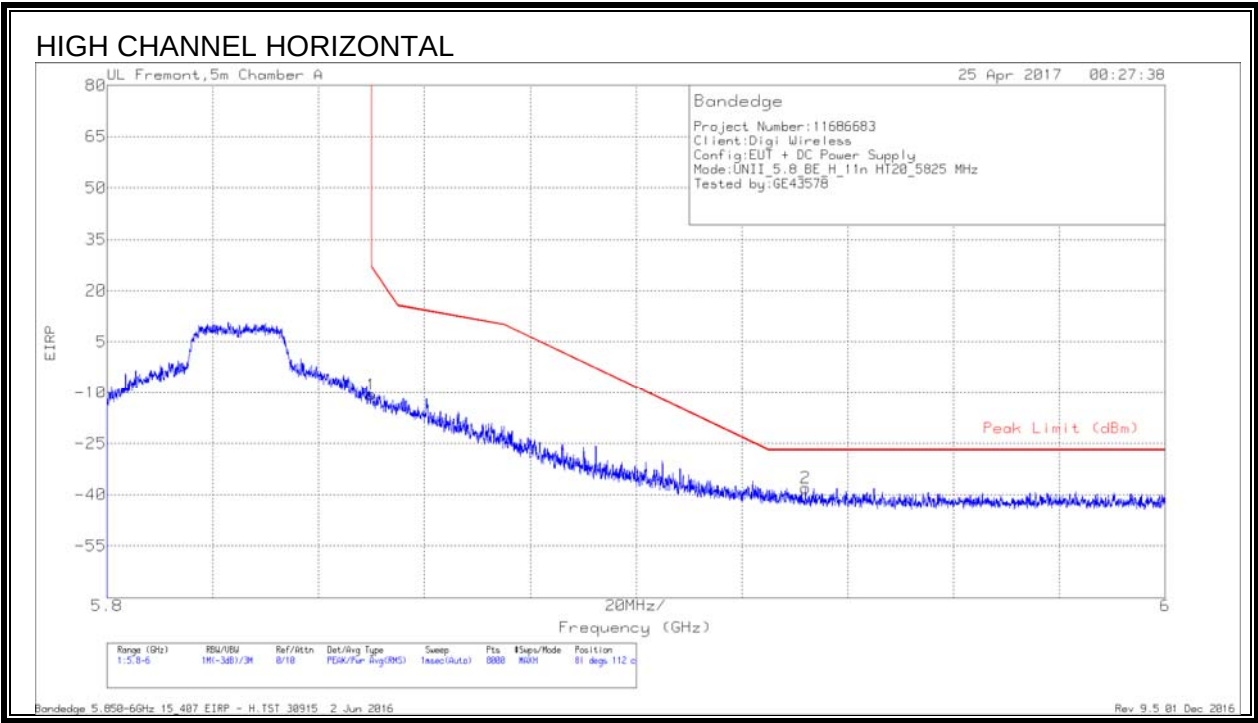


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-54.86	Pk	34.7	-19	11.8	-27.36	-27	-36	316	125	V
1	5.725	-32.09	Pk	34.8	-19	11.8	-4.49	27	-31.49	316	125	V

Pk - Peak detector

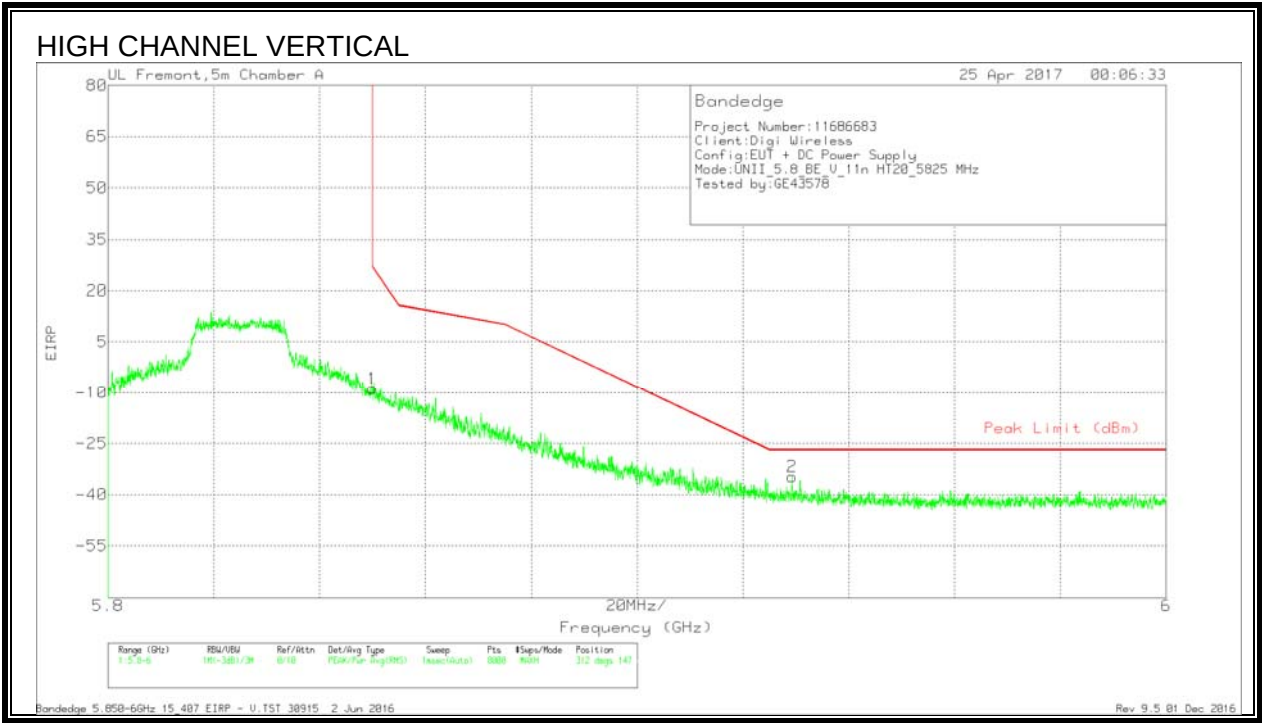
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-38.42	Pk	34.8	-18.8	11.8	-10.62	26.99	-37.61	81	112	H
2	5.932	-66.11	Pk	35	-18.7	11.8	-38.01	-27	-11.01	81	112	H

Pk - Peak detector

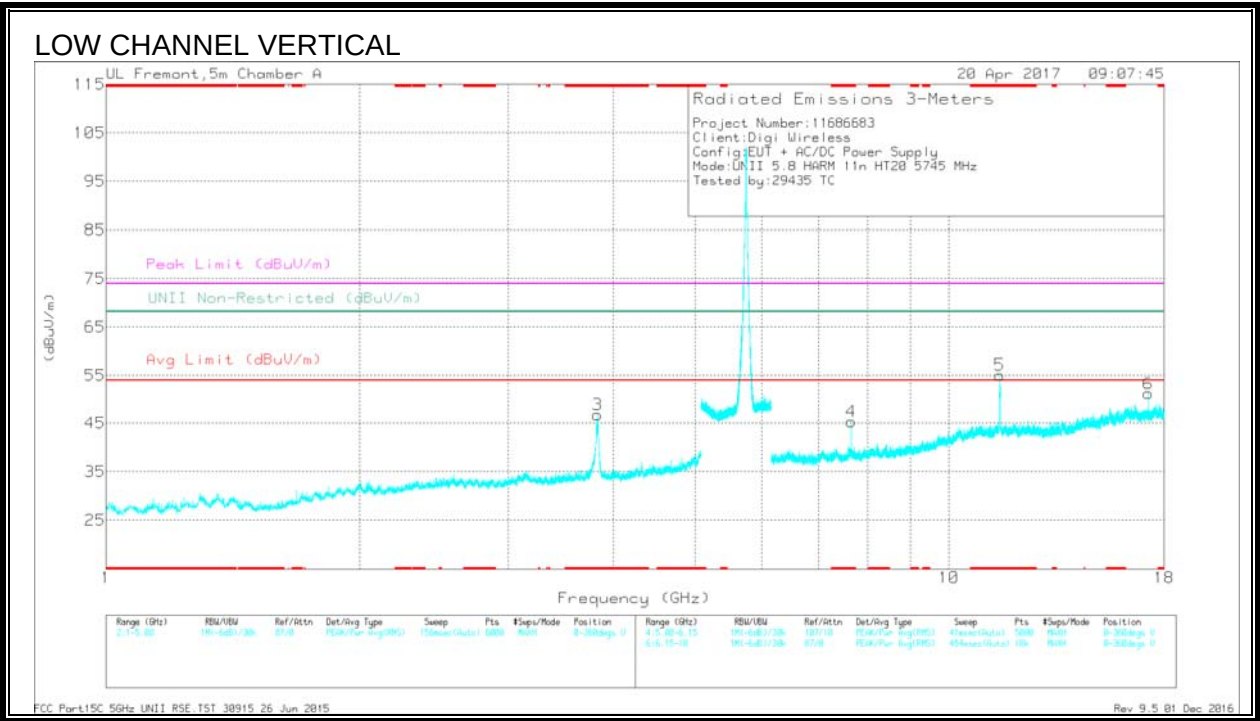
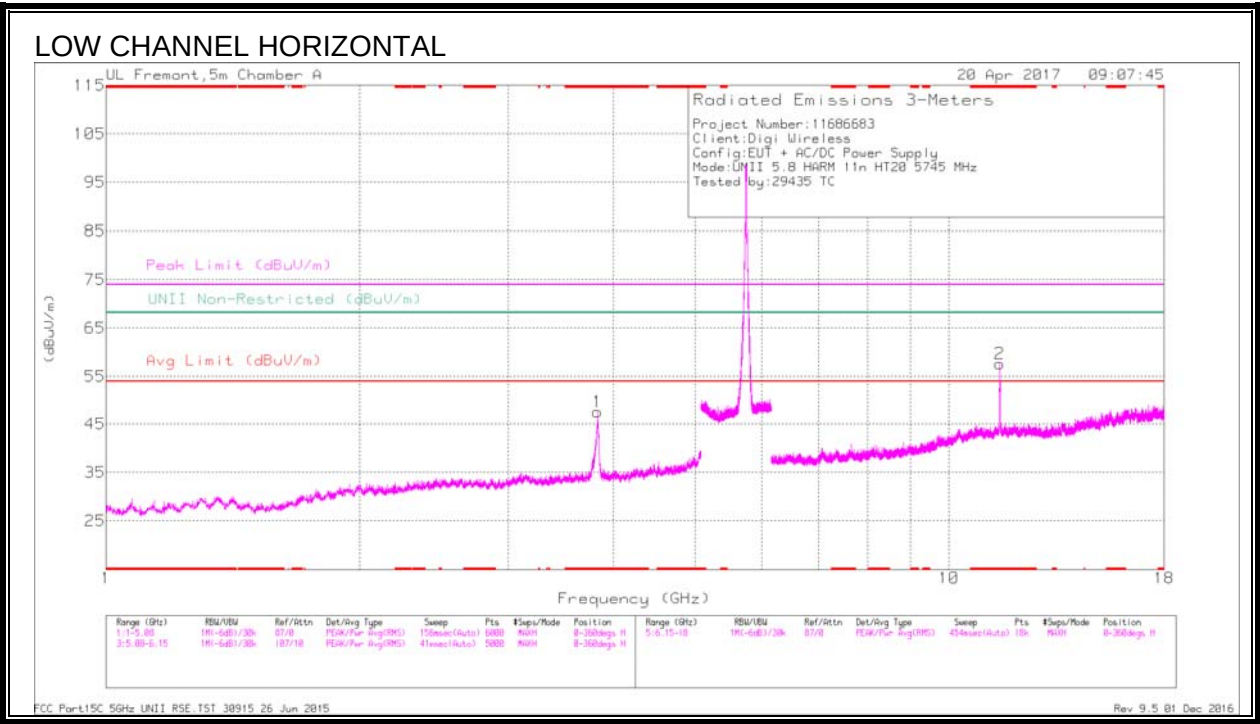


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-36.5	Pk	34.8	-18.8	11.8	-8.7	26.99	-35.69	312	147	V
2	5.929	-62.79	Pk	35	-18.7	11.8	-34.69	-27	-7.69	312	147	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

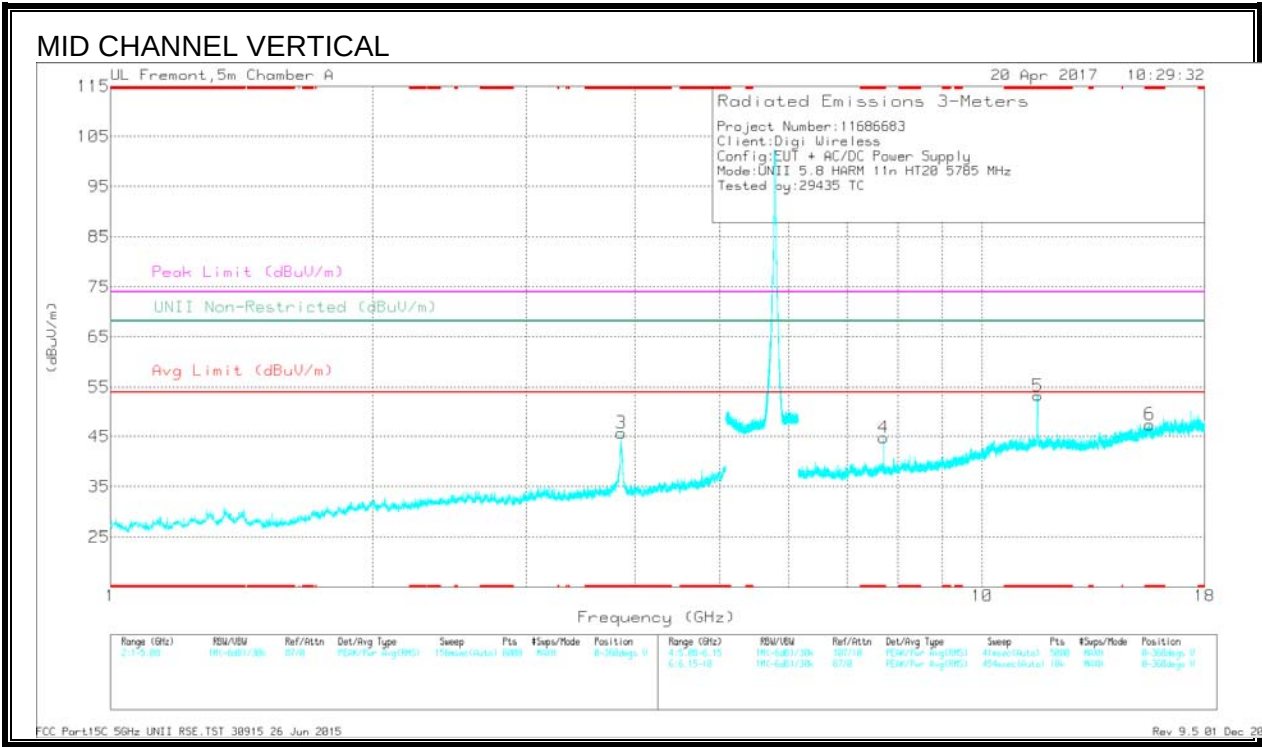
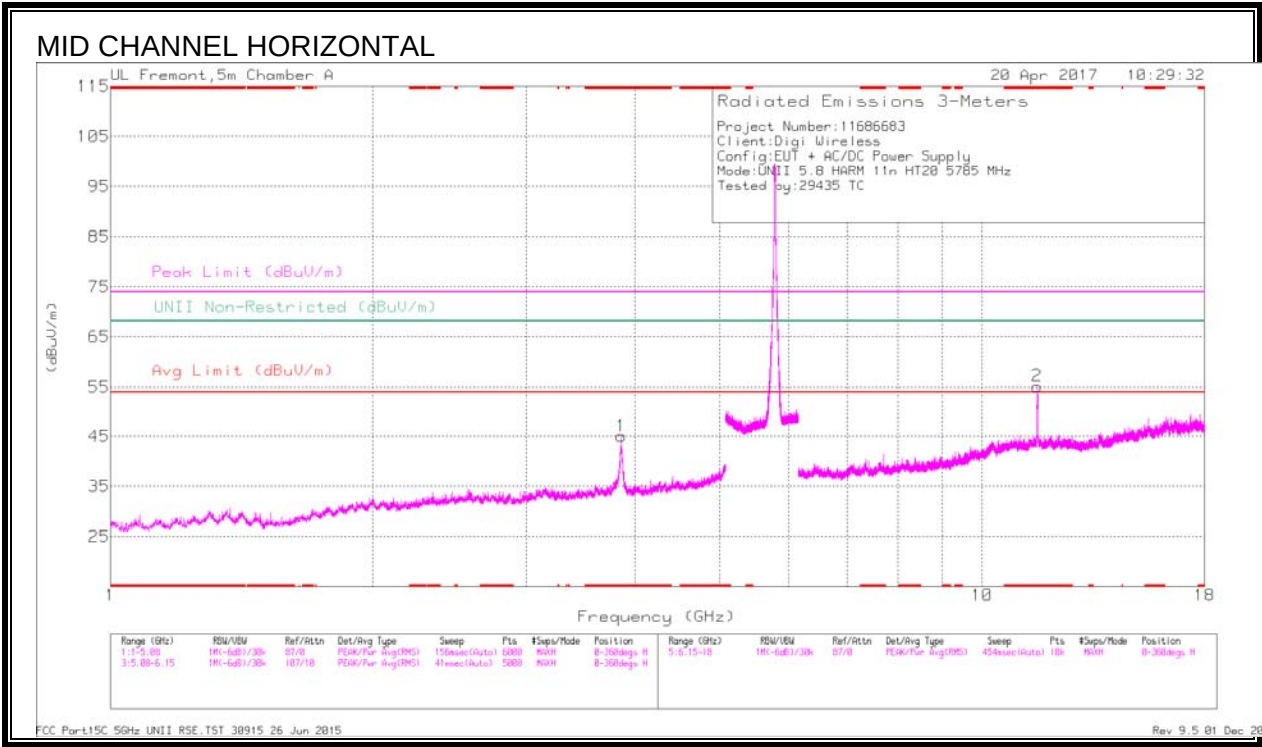
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fb/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.83	44.17	Pk	33.2	-29.8	0	47.57	-	-	74	-26.43	-	-	0-360	199	H
3	* 3.83	43.32	Pk	33.2	-29.8	0	46.72	-	-	74	-27.28	-	-	0-360	200	V
2	* 11.488	39.18	Pk	38.1	-19.6	0	57.68	-	-	74	-16.32	-	-	0-360	101	H
4	* 7.66	33	Pk	35.6	-23.3	0	45.3	-	-	74	-28.7	-	-	0-360	200	V
5	* 11.491	36.71	Pk	38.1	-19.7	0	55.11	-	-	74	-18.89	-	-	0-360	101	V
6	17.231	30.71	Pk	41.4	-21	0	51.11	-	-	-	-	68.2	-17.09	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fb/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Aug Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.83	51.92	PK-U	33.2	-29.9	0	55.22	-	-	74	-18.78	-	-	83	199	H
* 3.83	42.45	ADR	33.2	-29.8	0	45.85	54	-8.15	-	-	-	-	83	199	H
* 3.83	52.66	PK-U	33.2	-29.8	0	56.06	-	-	74	-17.94	-	-	228	268	V
* 3.83	42.61	ADR	33.2	-29.8	0	46.01	54	-7.99	-	-	-	-	228	268	V
* 11.489	45.16	PK-U	38.1	-19.6	0	63.66	-	-	74	-10.34	-	-	21	101	H
* 11.488	33.19	ADR	38.1	-19.6	0	51.69	54	-2.31	-	-	-	-	21	101	H
* 7.66	37.37	PK-U	35.6	-23.3	0	49.67	-	-	74	-24.33	-	-	324	274	V
* 7.66	31.51	ADR	35.6	-23.3	0	43.81	54	-10.19	-	-	-	-	324	274	V
* 11.489	42.45	PK-U	38.1	-19.6	0	60.95	-	-	74	-13.05	-	-	357	117	V
* 11.489	30.43	ADR	38.1	-19.6	0	48.93	54	-5.07	-	-	-	-	357	117	V
17.233	37.59	PK-U	41.4	-21	0	57.99	-	-	-	-	68.2	-10.21	8	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.856	41.81	Pk	33.3	-30.1	0	45.01	-	-	74	-28.99	-	-	0-360	199	H
3	* 3.856	42.48	Pk	33.3	-30.1	0	45.68	-	-	74	-28.32	-	-	0-360	200	V
2	* 11.565	37.41	Pk	38.1	-20.3	0	55.21	-	-	74	-18.79	-	-	0-360	101	H
4	* 7.713	33.36	Pk	35.6	-24.2	0	44.76	-	-	74	-29.24	-	-	0-360	200	V
5	* 11.579	35.27	Pk	38.1	-20.1	0	53.27	-	-	74	-20.73	-	-	0-360	200	V
6	* 15.573	26.48	Pk	40.4	-19.5	0	47.38	-	-	74	-26.62	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

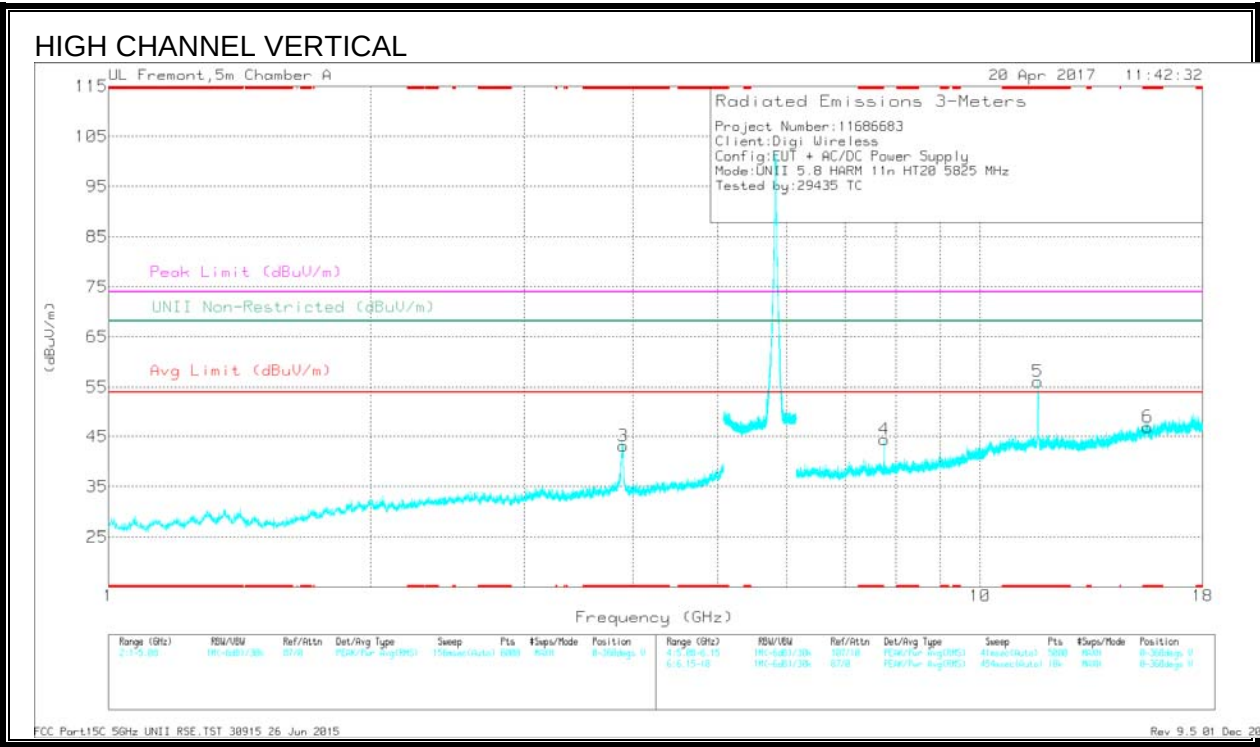
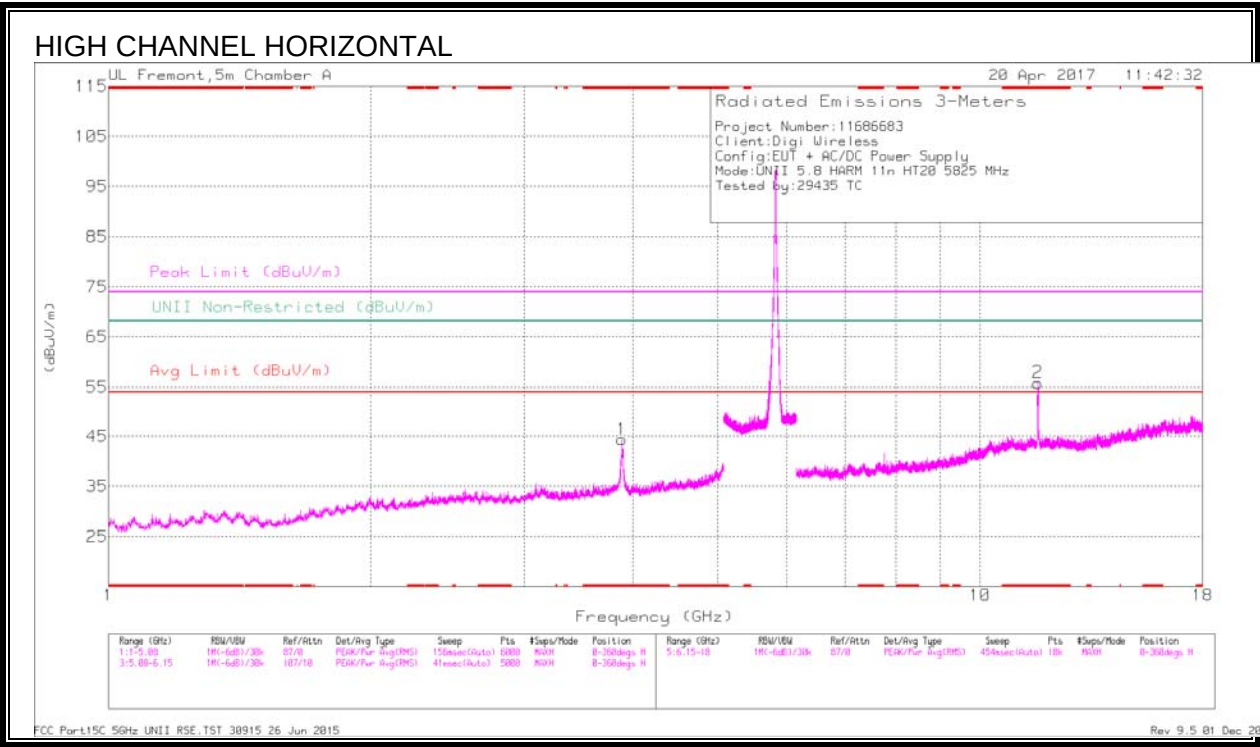
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.857	49.6	PK-U	33.3	-30.1	0	52.5	-	-	74	-21.2	-	-	89	213	H
* 3.857	39.48	ADR	33.3	-30.1	0	42.68	54	-11.32	-	-	-	-	89	213	H
* 3.857	49.74	PK-U	33.3	-30.1	0	52.94	-	-	74	-21.06	-	-	236	295	V
* 3.857	39.32	ADR	33.3	-30.1	0	42.52	54	-11.48	-	-	-	-	236	295	V
* 11.564	43.03	PK-U	38.1	-20.3	0	60.83	-	-	74	-13.17	-	-	95	129	H
* 11.567	30.99	ADR	38.1	-20.3	0	48.79	54	-5.21	-	-	-	-	95	129	H
* 7.713	39.01	PK-U	35.6	-24.2	0	50.41	-	-	74	-23.59	-	-	336	279	V
* 7.713	33.42	ADR	35.6	-24.2	0	44.82	54	-9.18	-	-	-	-	336	279	V
* 11.579	42.59	PK-U	38.1	-20.1	0	60.59	-	-	74	-13.41	-	-	269	210	V
* 11.577	30.01	ADR	38.1	-20.1	0	48.01	54	-5.99	-	-	-	-	269	210	V
* 15.571	33.05	PK-U	40.3	-19.4	0	53.95	-	-	74	-20.05	-	-	123	114	V
* 15.571	20.76	ADR	40.3	-19.4	0	41.66	54	-12.34	-	-	-	-	123	114	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.883	41.66	Pk	33.3	-30.5	0	44.46	-	-	74	-29.54	-	-	0-360	199	H
3	* 3.895	40.4	Pk	33.3	-30.6	0	43.1	-	-	74	-30.9	-	-	0-360	200	V
2	* 11.649	36.99	Pk	38.2	-19.3	0	55.89	-	-	74	-18.11	-	-	0-360	101	H
5	* 11.651	37.21	Pk	38.2	-19.3	0	56.11	-	-	74	-17.89	-	-	0-360	200	V
6	* 15.571	26.01	Pk	40.3	-19.4	0	46.91	-	-	74	-27.09	-	-	0-360	200	V
4	7.766	33.21	Pk	35.6	-24.4	0	44.41	-	-	-	-	68.2	-23.79	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

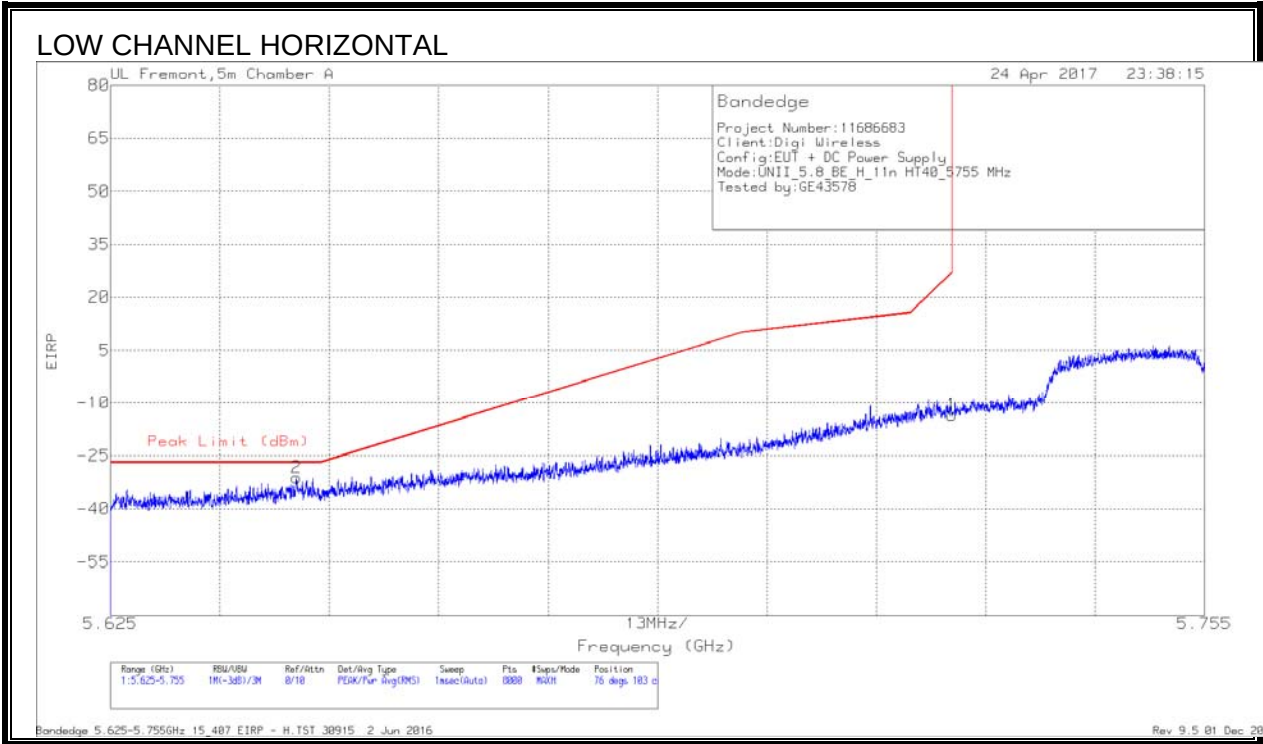
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Fr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U/NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.883	50.43	PK-U	33.3	-30.5	0	53.23	-	-	74	-20.77	-	-	9	205	H
* 3.883	39.85	ADR	33.3	-30.5	0	42.65	54	-11.35	-	-	-	-	9	205	H
* 3.894	47.23	PK-U	33.3	-30.6	0	49.93	-	-	74	-24.07	-	-	340	268	V
* 3.893	34.7	ADR	33.3	-30.6	0	37.4	54	-16.6	-	-	-	-	240	268	V
* 11.651	45.51	PK-U	38.2	-19.3	0	64.41	-	-	74	-9.59	-	-	73	281	H
* 11.649	33.36	ADR	38.2	-19.3	0	52.26	54	-1.74	-	-	-	-	73	281	H
* 11.652	43.92	PK-U	38.2	-19.3	0	62.62	-	-	74	-11.18	-	-	265	228	V
* 11.651	31.88	ADR	38.2	-19.3	0	50.78	54	-3.22	-	-	-	-	265	228	V
* 15.573	31.99	PK-U	40.4	-19.5	0	52.89	-	-	74	-21.11	-	-	322	275	V
* 15.573	20.7	ADR	40.4	-19.5	0	41.6	54	-12.4	-	-	-	-	322	275	V
7.767	39.51	PK-U	35.6	-24.4	0	50.71	-	-	-	-	68.2	-17.49	332	246	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

10.1.6. 11n HT40 MODE IN THE 5.8GHz BAND

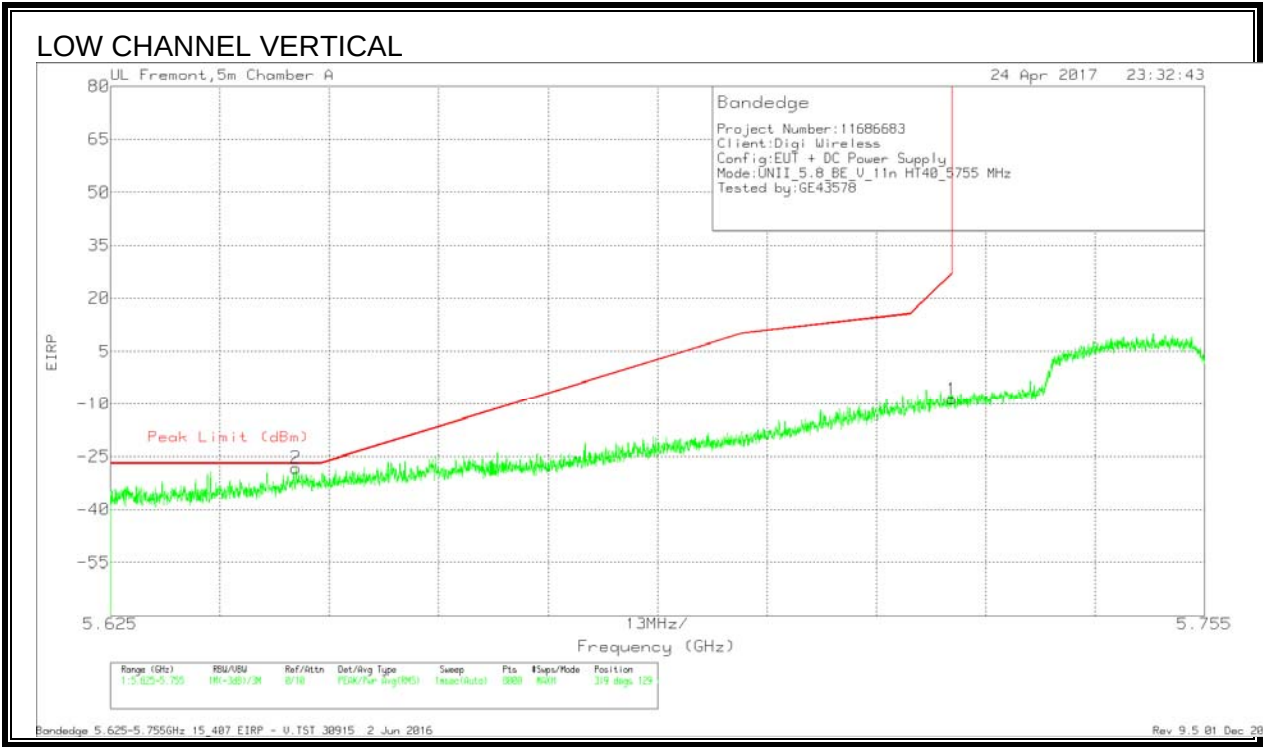
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-58.74	Pk	34.7	-19	11.8	-31.24	-27	-4.24	76	103	H
1	5.725	-41.13	Pk	34.8	-19	11.8	-13.53	27	-40.53	76	103	H

Pk - Peak detector

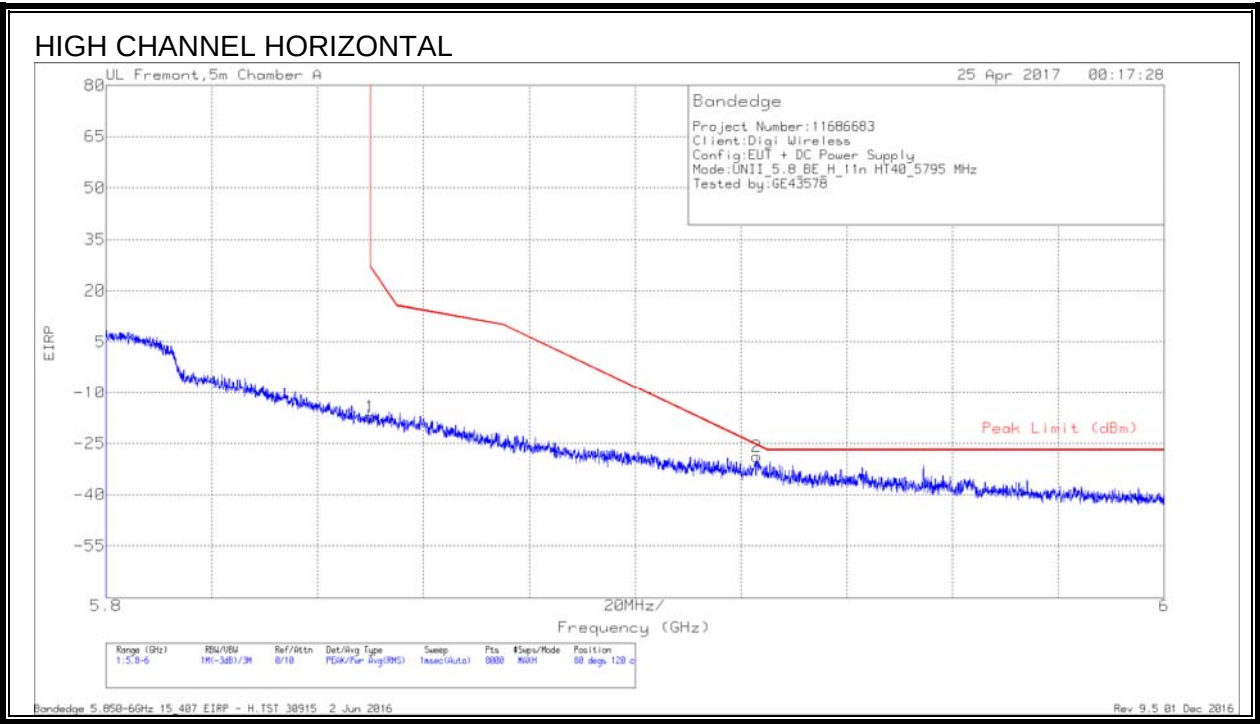


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-55.85	Pk	34.7	-19	11.8	-28.35	-27	-1.35	319	129	V
1	5.725	-36.15	Pk	34.8	-19	11.8	-8.55	27	-35.55	319	129	V

Pk - Peak detector

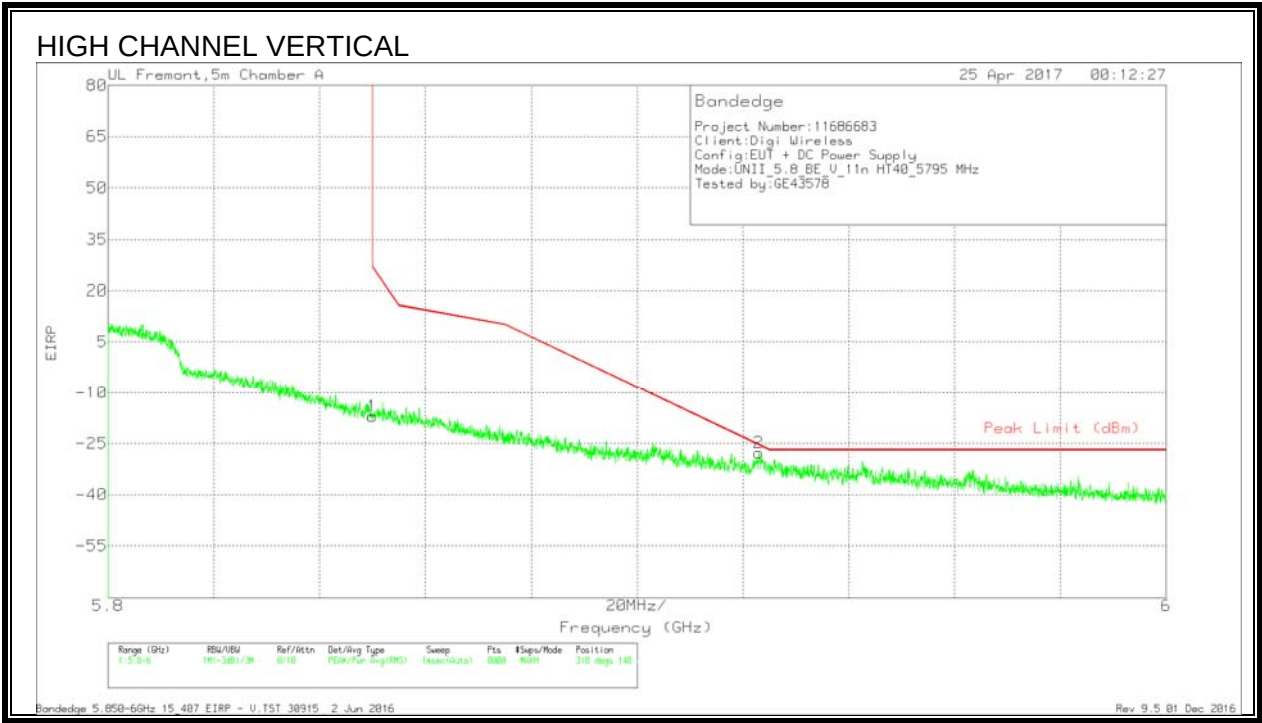
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Par d (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-45.01	Pk	34.8	-18.8	11.8	-17.21	26.99	-44.2	80	120	H
2	5.923	-57.04	Pk	35	-18.6	11.8	-28.84	-25.53	-3.31	80	120	H

Pk - Peak detector

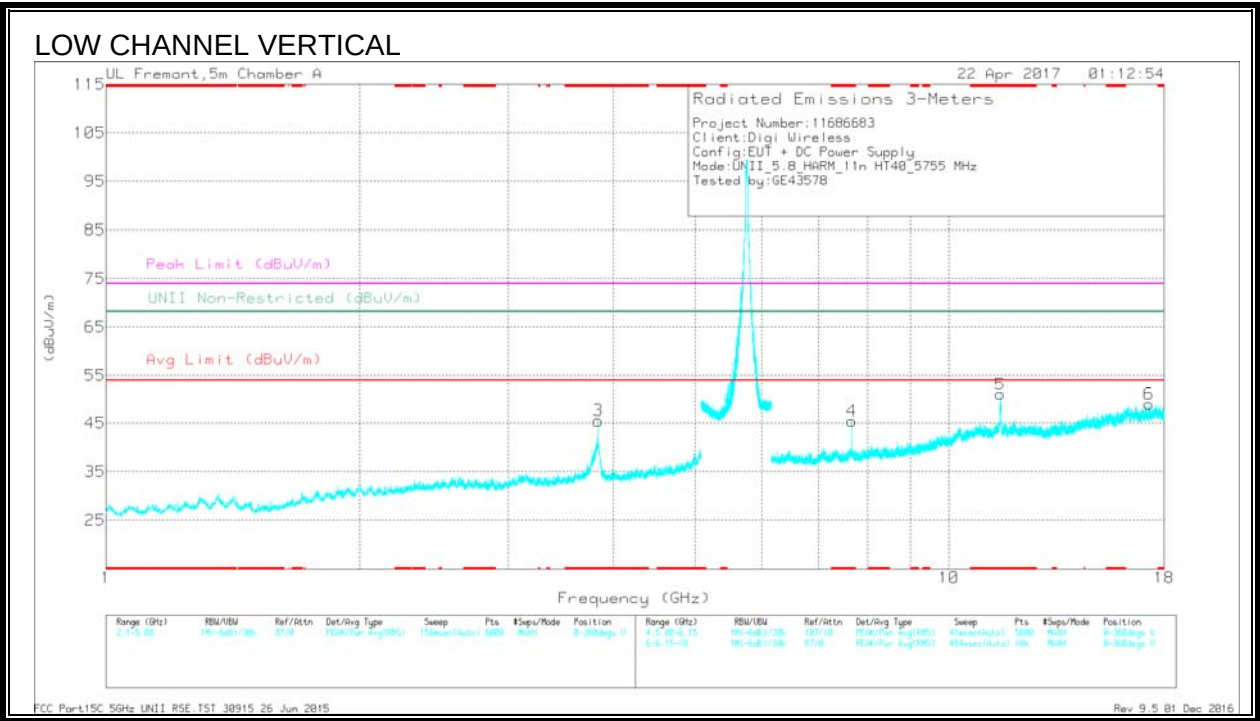
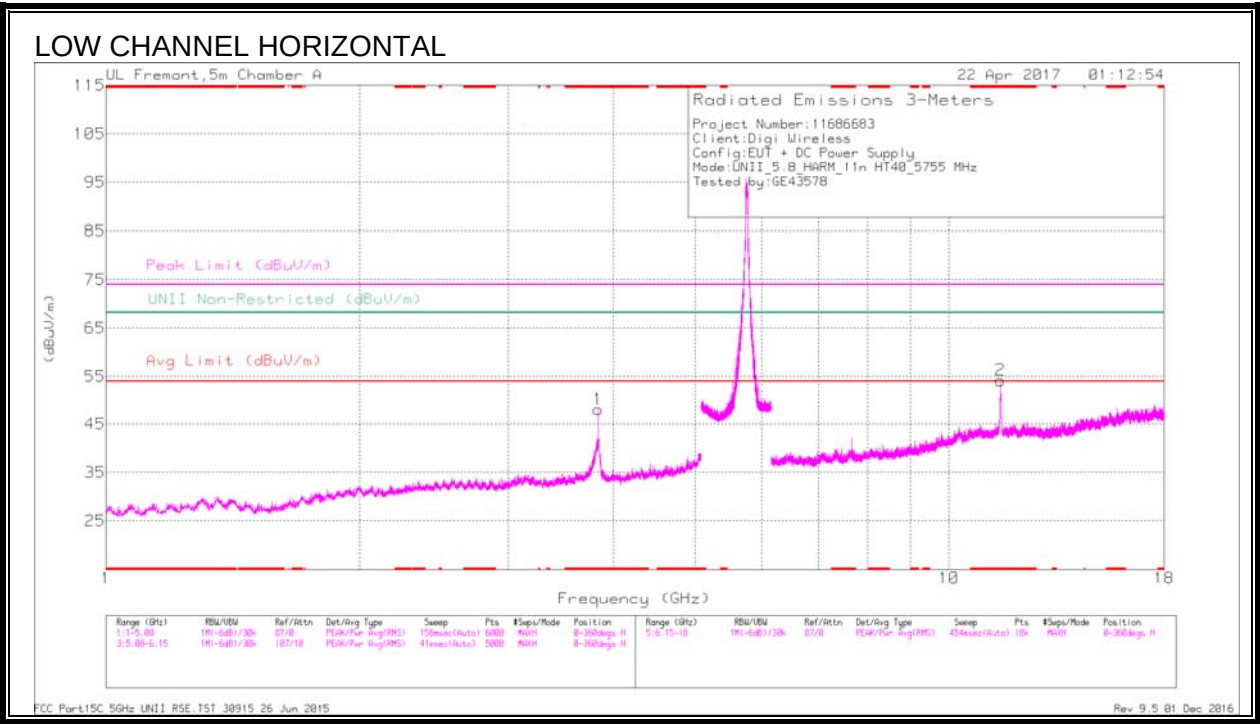


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-44.84	Pk	34.8	-18.8	11.8	-17.04	26.99	-44.03	318	148	V
2	5.923	-55.94	Pk	35	-18.6	11.8	-27.74	-25.55	-2.19	318	148	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

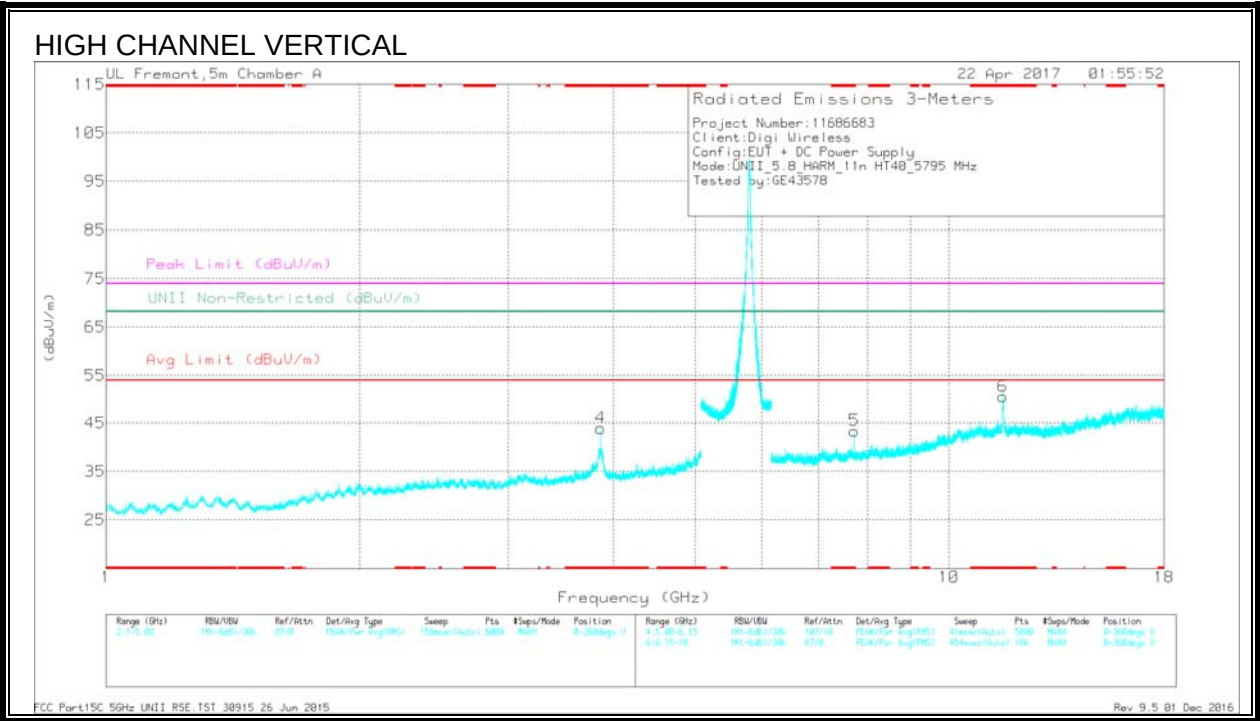
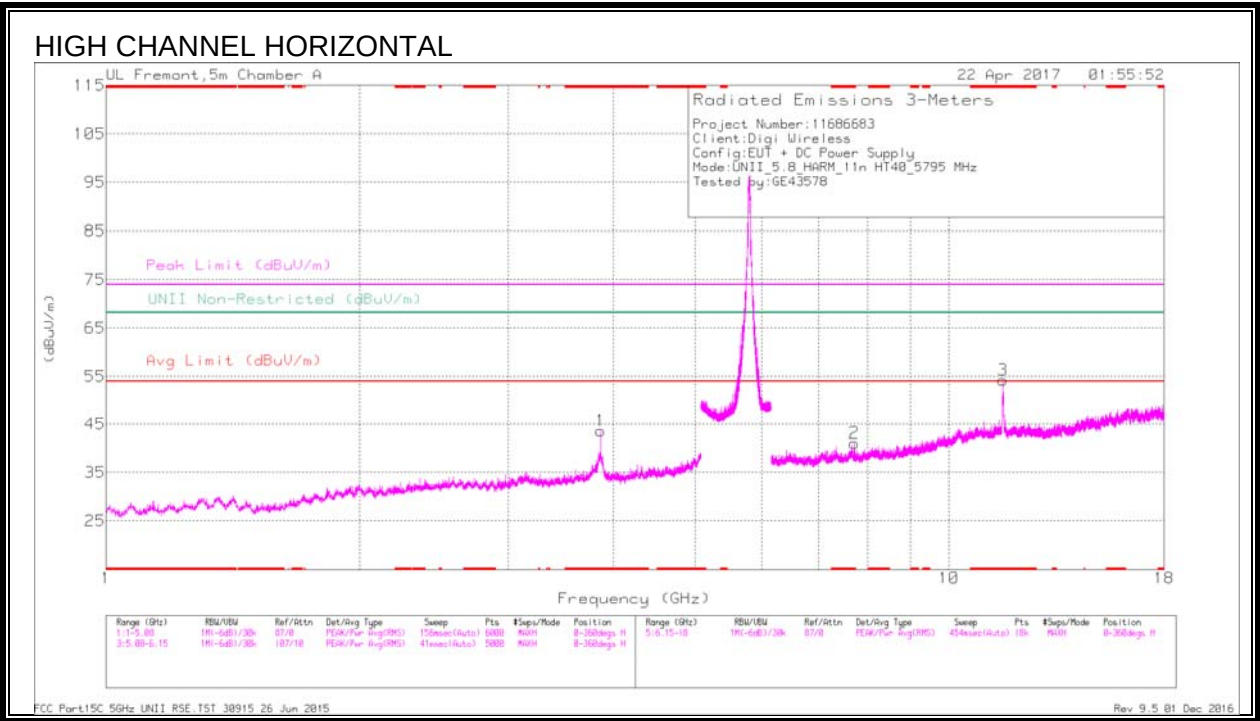
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/F/R/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.837	44.73	Pk	33.2	-29.9	0	48.03	-	-	74	-25.97	-	-	0-360	102	H
3	* 3.836	42.21	Pk	33.2	-29.9	0	45.51	-	-	74	-28.49	-	-	0-360	200	V
2	* 11.508	35.61	Pk	38.1	-19.5	0	54.21	-	-	74	-19.79	-	-	0-360	199	H
4	* 7.673	33.27	Pk	35.6	-23.4	0	45.47	-	-	74	-28.53	-	-	0-360	101	V
5	* 11.511	32.4	Pk	38.1	-19.5	0	51	-	-	74	-23	-	-	0-360	200	V
6	17.271	28.3	Pk	41.4	-20.8	0	48.9	-	-	-	-	68.2	-19.3	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Ch/F/R/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.837	51.14	PK-U	33.2	-29.9	0	54.44	-	-	74	-19.56	-	-	191	101	H
* 3.837	41.36	ADR	33.2	-29.9	.17	44.83	54	-9.17	-	-	-	-	191	101	H
* 3.837	50.86	PK-U	33.2	-29.9	0	54.16	-	-	74	-19.84	-	-	332	109	V
* 3.837	40.67	ADR	33.2	-29.9	.17	44.14	54	-9.86	-	-	-	-	332	109	V
* 11.512	40.65	PK-U	38.1	-19.5	0	59.25	-	-	74	-14.75	-	-	96	280	H
* 11.511	28.99	ADR	38.1	-19.5	.17	47.76	54	-6.24	-	-	-	-	96	280	H
* 7.673	37.54	PK-U	35.6	-23.4	0	49.74	-	-	74	-24.26	-	-	227	102	V
* 7.673	31.32	ADR	35.6	-23.4	.17	43.69	54	-10.31	-	-	-	-	227	102	V
* 11.51	39.81	PK-U	38.1	-19.5	0	58.41	-	-	74	-15.59	-	-	199	216	V
* 11.508	28.21	ADR	38.1	-19.5	.17	46.98	54	-7.02	-	-	-	-	199	216	V
17.285	32.97	PK-U	41.4	-21	0	53.37	-	-	-	-	68.2	-14.83	186	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.863	40.72	Pk	33.3	-30.4	0	43.62	-	-	74	-30.38	-	-	0-360	199	H
4	* 3.863	41.05	Pk	33.3	-30.4	0	43.95	-	-	74	-30.05	-	-	0-360	101	V
2	* 7.727	29.99	Pk	35.6	-24.5	0	41.09	-	-	74	-32.91	-	-	0-360	101	H
3	* 11.591	36.3	Pk	38.1	-20.1	0	54.3	-	-	74	-19.7	-	-	0-360	101	H
5	* 7.727	32.33	Pk	35.6	-24.5	0	43.43	-	-	74	-30.57	-	-	0-360	101	V
6	* 11.594	32.57	Pk	38.1	-20.1	0	50.57	-	-	74	-23.43	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	U-NII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
* 3.863	47.41	PK-U	33.3	-30.4	0	50.31	-	-	74	-23.69	-	-	118	119	H
* 3.863	38.38	ADR	33.3	-30.4	.17	41.45	54	-12.55	-	-	-	-	118	119	H
* 3.863	48.62	PK-U	33.3	-30.4	0	51.52	-	-	74	-22.48	-	-	326	105	V
* 3.863	39.35	ADR	33.3	-30.4	.17	42.42	54	-11.58	-	-	-	-	326	105	V
* 7.727	36	PK-U	35.6	-24.5	0	47.1	-	-	74	-26.9	-	-	99	110	H
* 7.727	27.3	ADR	35.6	-24.5	.17	38.57	54	-15.43	-	-	-	-	99	110	H
* 11.592	41.19	PK-U	38.1	-20.1	0	59.19	-	-	74	-14.81	-	-	120	101	H
* 11.589	28.57	ADR	38.1	-20.1	.17	46.74	54	-7.26	-	-	-	-	120	101	H
* 7.727	37.53	PK-U	35.6	-24.5	0	48.63	-	-	74	-25.37	-	-	227	109	V
* 7.727	31.58	ADR	35.6	-24.5	.17	42.85	54	-11.15	-	-	-	-	227	109	V
* 11.59	40.43	PK-U	38.1	-20.1	0	58.43	-	-	74	-15.57	-	-	283	113	V
* 11.59	28.5	ADR	38.1	-20.1	.17	46.67	54	-7.33	-	-	-	-	283	113	V

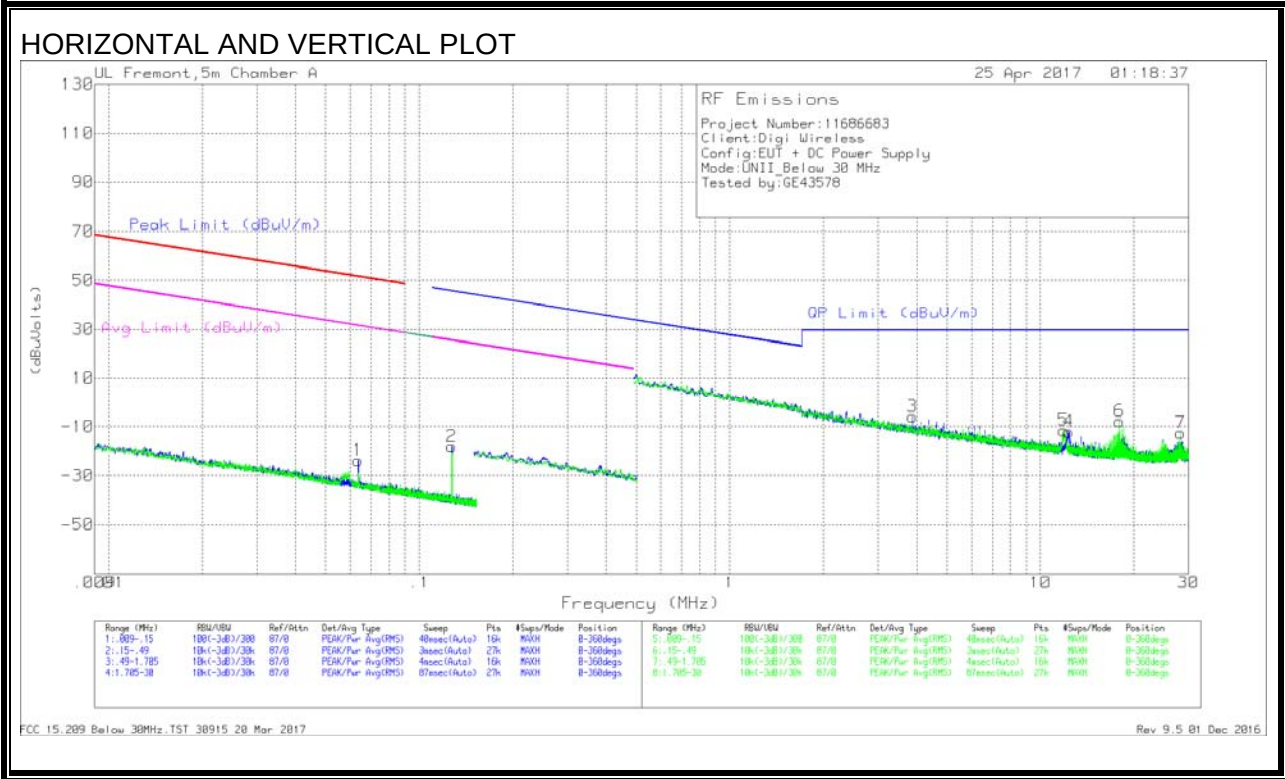
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST-CASE BELOW 30 MHz

SPURIOUS EMISSIONS 9kHz TO 30 MHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Chl (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.06364	43.89	PK	12.1	-1	-80	-23.91	51.51	-75.42	31.51	-55.42	-	-	-	-	-	-	-	-	0-360
2	.1275	50.18	PK	11.6	-1	-80	-18.12	-	-	-	-	-	-	-	-	45.52	-63.64	25.52	-43.64	0-360

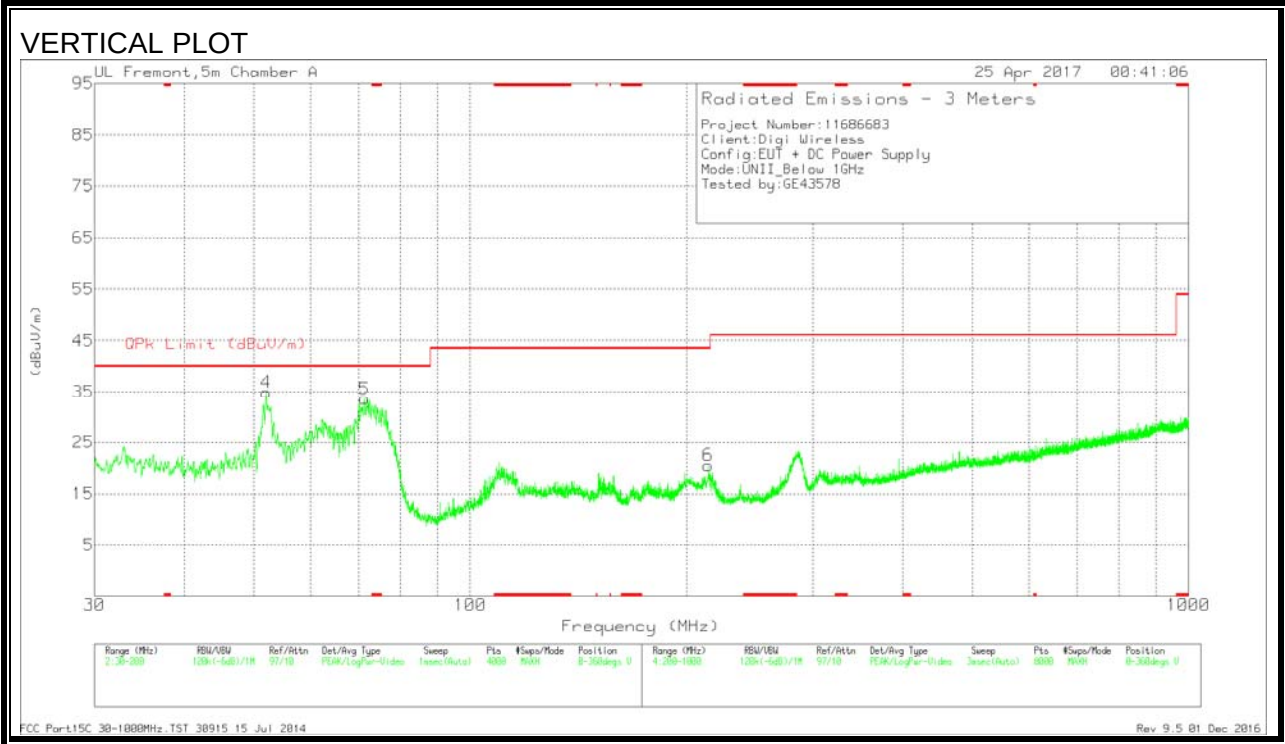
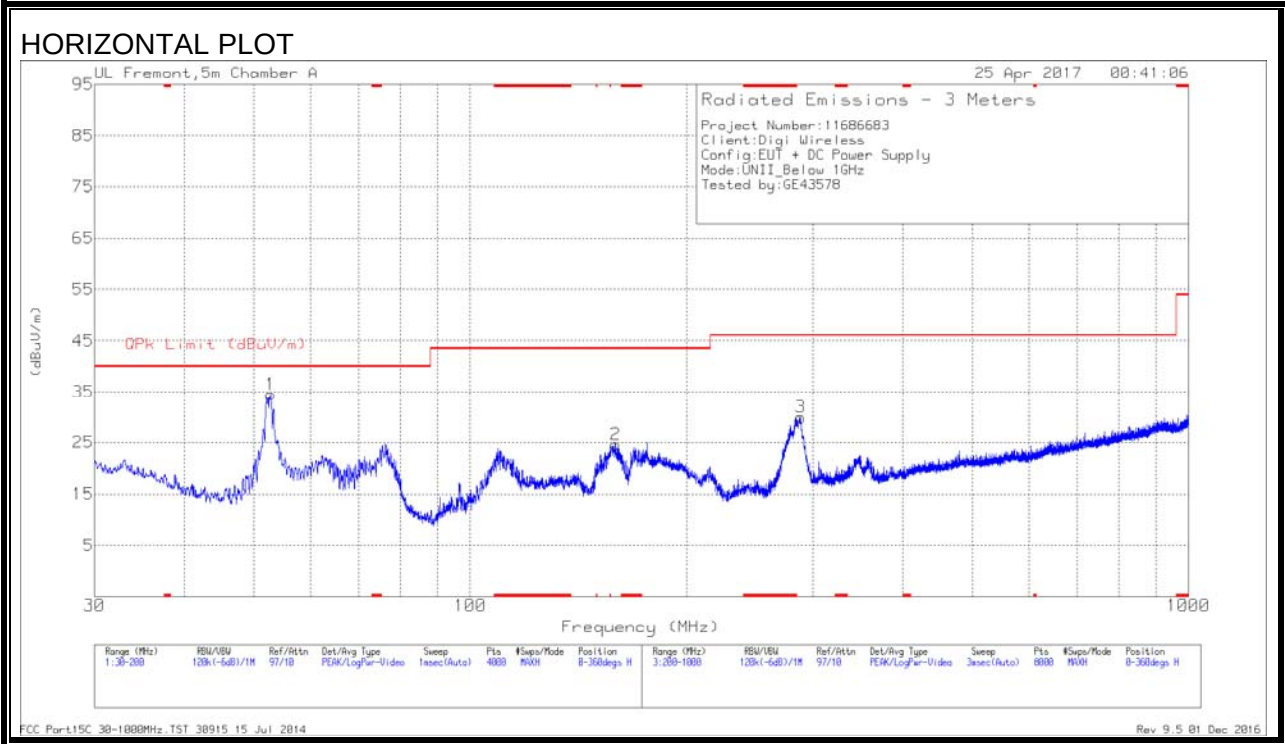
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Chl (dB)	Dist Corr 30m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	QP Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	3.87593	22.17	PK	11.6	.3	-40	-5.93	-	-	-	-	-	-	29.5	-35.43	-	-	-	-	0-360
5	11.88537	17.77	PK	10.6	.5	-40	-11.53	-	-	-	-	-	-	29.5	-41.03	-	-	-	-	0-360
4	12.32176	16.70	PK	10.5	.5	-40	-12.21	-	-	-	-	-	-	29.5	-41.71	-	-	-	-	0-360
6	18.00612	21.59	PK	9.9	.6	-40	-7.91	-	-	-	-	-	-	29.5	-37.41	-	-	-	-	0-360
7	28.27023	18.15	PK	8.3	.8	-40	-12.75	-	-	-	-	-	-	29.5	-42.25	-	-	-	-	0-360

Pk - Peak detector

10.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	52.0207	54.51	Pk	11.3	-31	34.81	40	-5.19	0-360	100	V
1	52.7434	54.22	Pk	11.2	-30.9	34.52	40	-5.48	0-360	400	H
5	71.2782	51.88	Pk	12.5	-30.8	33.58	40	-6.42	0-360	100	V
2	159.531	38.54	Pk	16.2	-30.2	24.54	43.52	-18.98	0-360	300	H
6	214.5019	35.84	Pk	14.6	-29.9	20.54	43.52	-22.98	0-360	200	V
3	288.4115	42	Pk	17.3	-29.4	29.9	46.02	-16.12	0-360	200	H

Pk - Peak detector

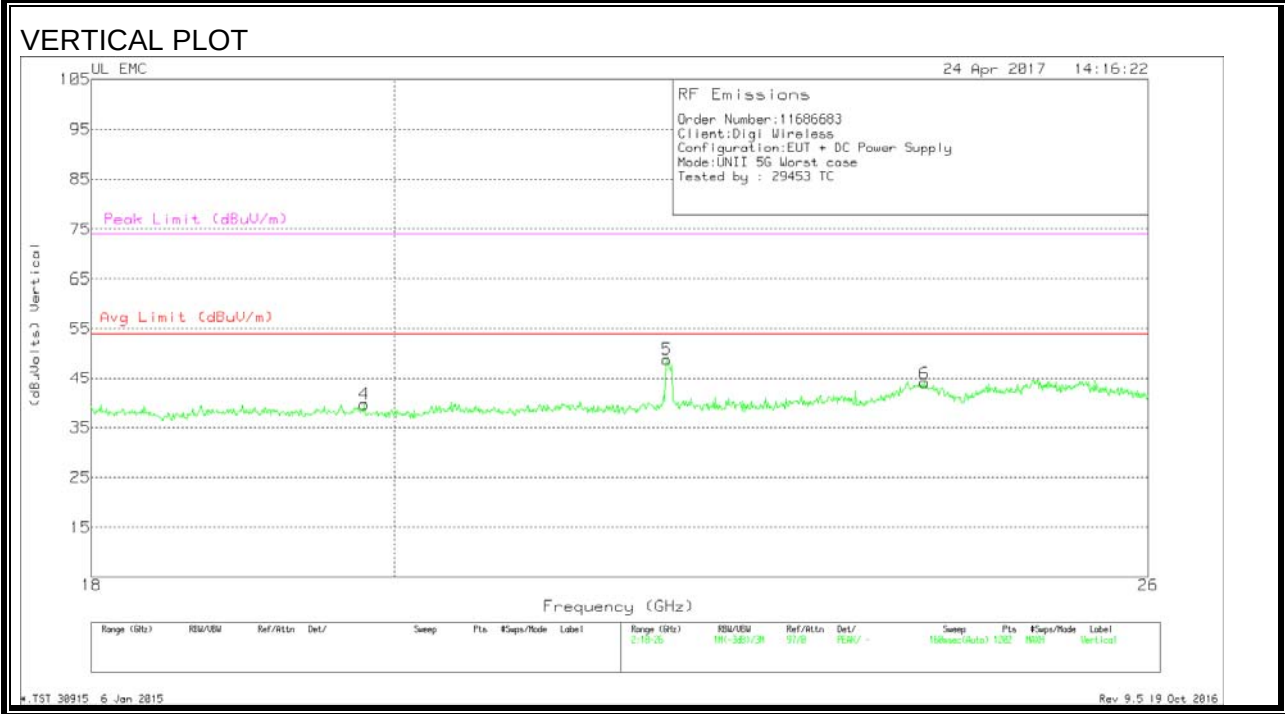
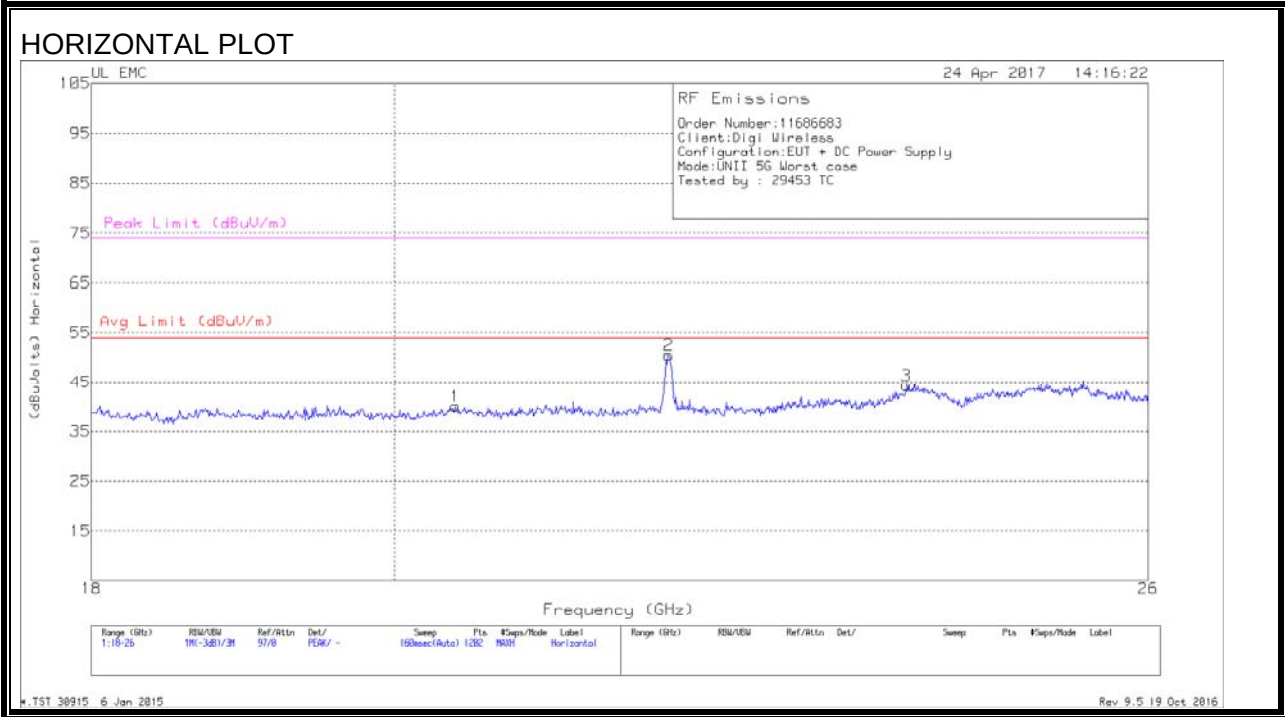
Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
52.026	50.49	Qp	11.3	-31	30.79	40	-9.21	333	103	V
52.7655	53.33	Qp	11.1	-30.9	33.53	40	-6.47	133	335	H

Qp - Quasi-Peak detector

10.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



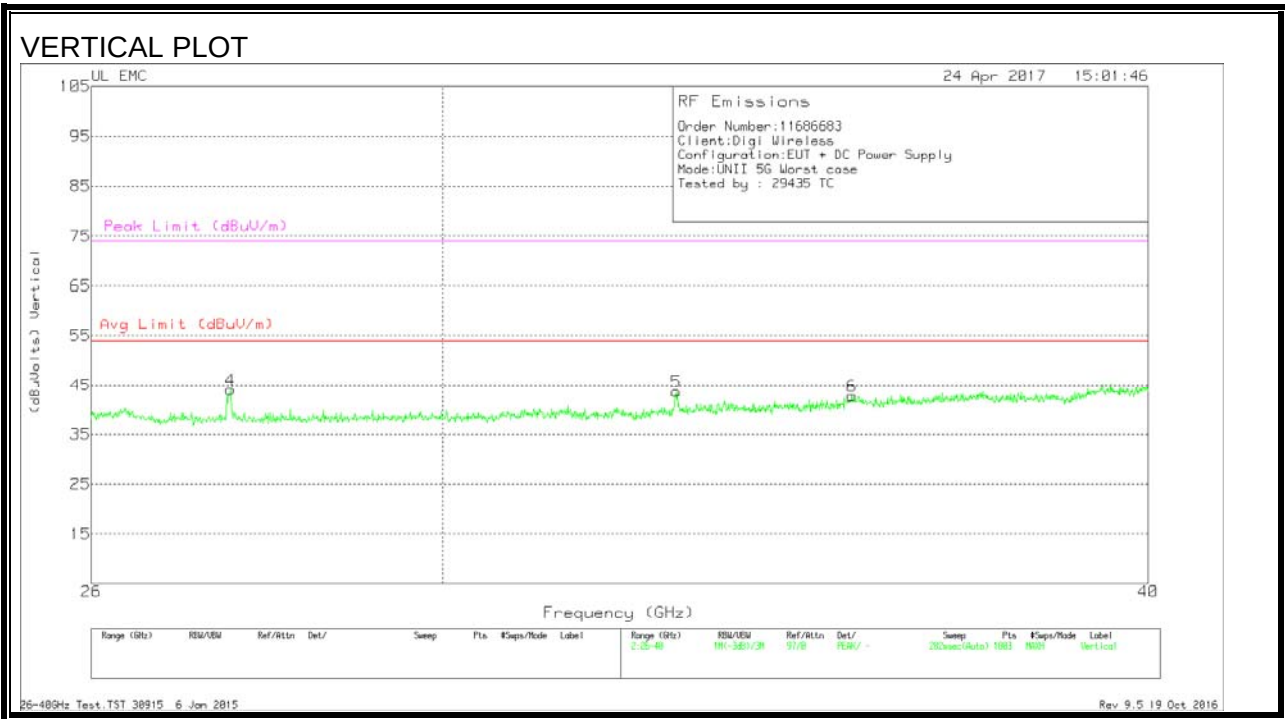
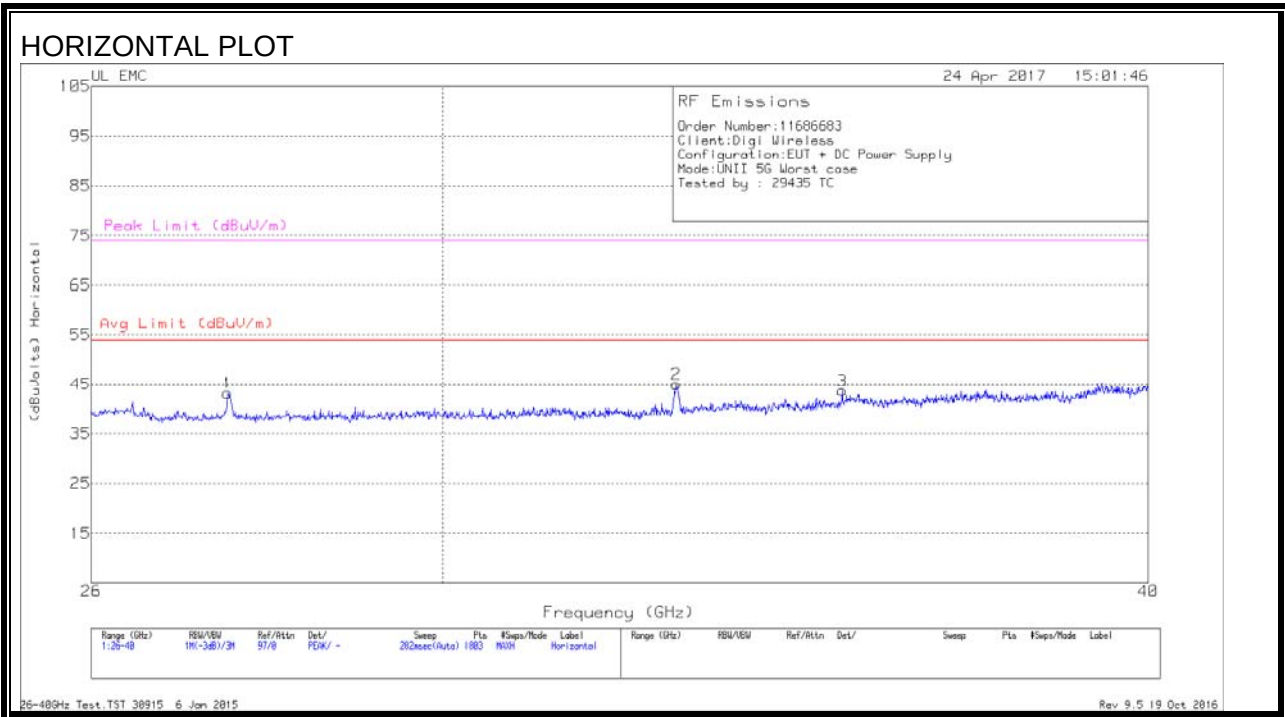
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T449 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.431	41.8	Pk	32.9	-25.2	-9.5	40	54	-14	74	-34
2	22.003	51.7	Pk	33.5	-25.2	-9.5	50.5	54	-3.5	74	-23.5
3	23.902	43.73	Pk	34	-23.9	-9.5	44.33	54	-9.67	74	-29.67
4	19.792	41.27	Pk	32.7	-24.8	-9.5	39.67	54	-14.33	74	-34.33
5	21.99	49.93	Pk	33.5	-25.1	-9.5	48.83	54	-5.17	74	-25.17
6	24.055	43.9	Pk	34	-24.4	-9.5	44	54	-10	74	-30

Pk - Peak detector

10.5. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.484	48.77	Pk	35.7	-31.8	-9.5	43.17	54	-10.83	74	-30.83
2	33	51.1	Pk	36.7	-33.3	-9.5	45	54	-9	74	-29
3	35.307	49.47	Pk	37.8	-34.1	-9.5	43.67	54	-10.33	74	-30.33
4	27.515	49.7	Pk	35.7	-31.9	-9.5	44	54	-10	74	-30
5	33	49.77	Pk	36.7	-33.3	-9.5	43.67	54	-10.33	74	-30.33
6	35.447	48.23	Pk	37.9	-33.8	-9.5	42.83	54	-11.17	74	-31.17

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

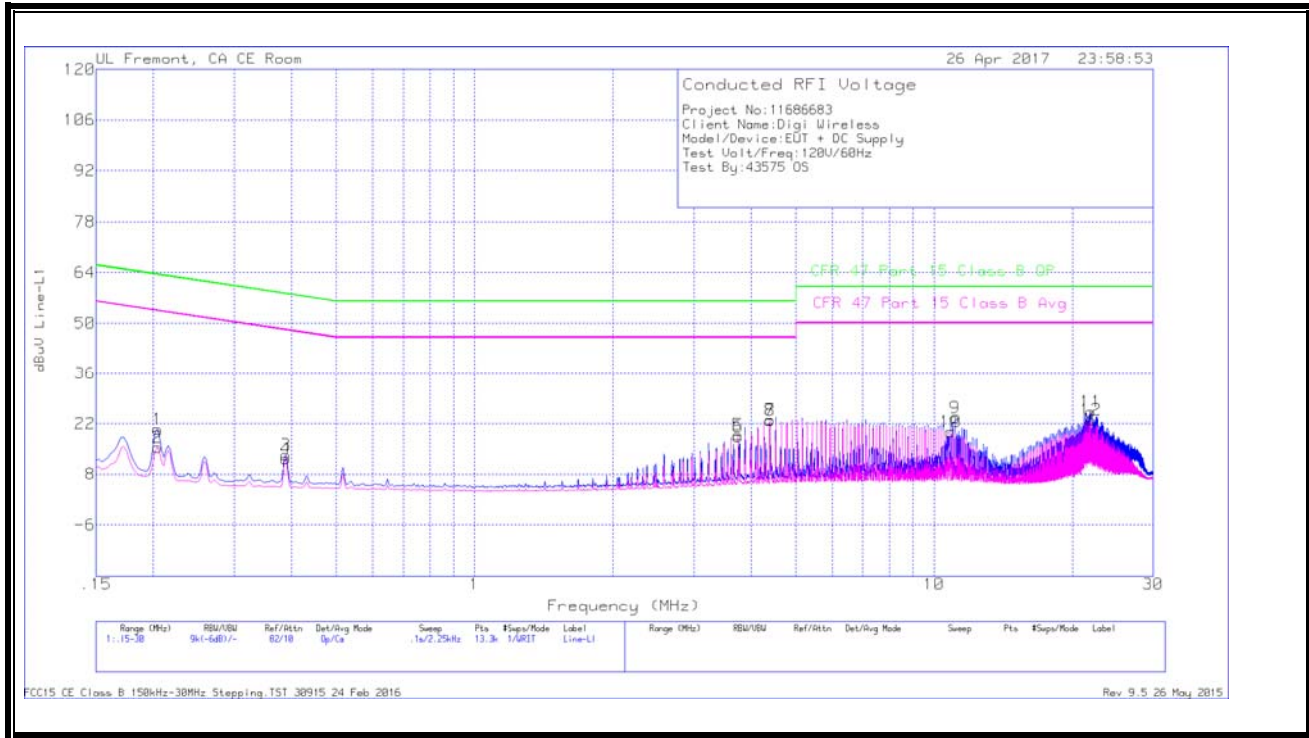
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

LINE 1 RESULTS



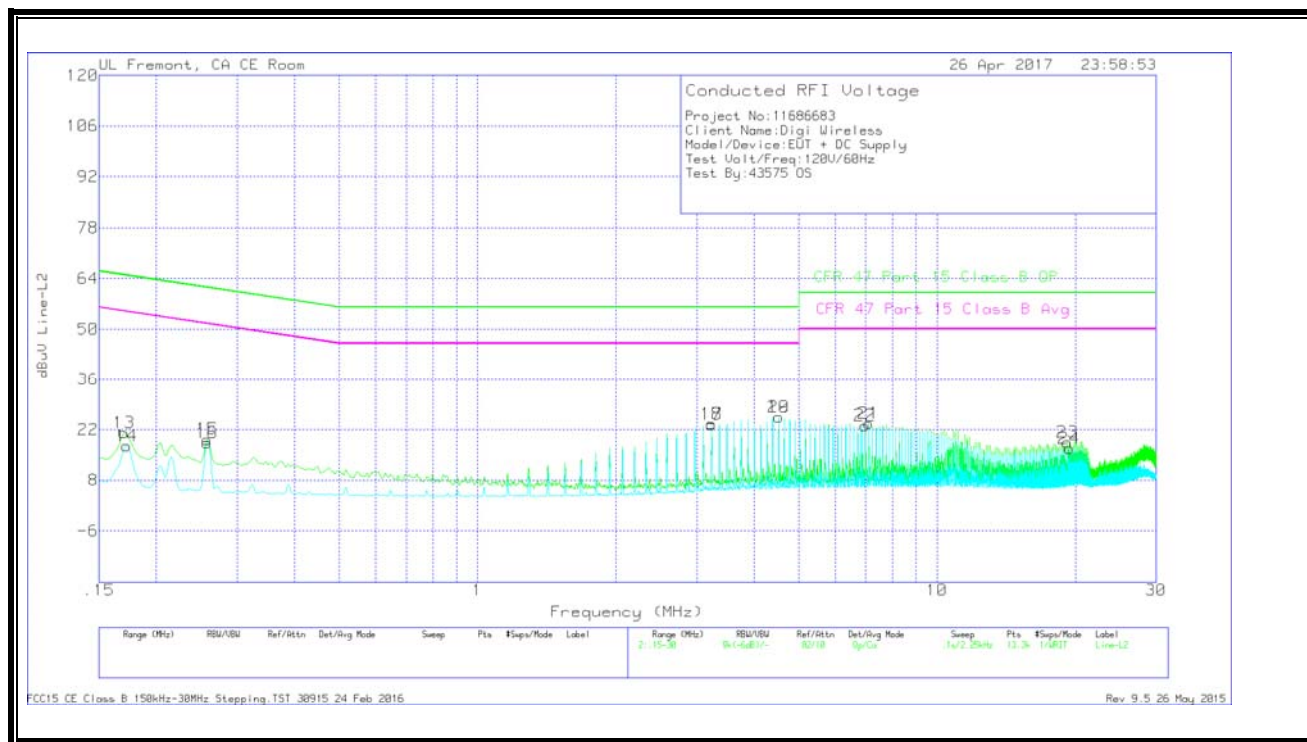
WORST EMISSIONS

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
1	.204	10.27	Qp	0	.1	10.1	20.47	63.45	-42.98	-	-
2	.204	5.28	Ca	0	.1	10.1	15.48	-	-	53.45	-37.97
3	.3885	3.14	Qp	0	.1	10.1	13.34	58.1	-44.76	-	-
4	.3885	2.1	Ca	0	.1	10.1	12.3	-	-	48.1	-35.8
5	3.74775	8.66	Qp	0	.1	10.1	18.86	56	-37.14	-	-
6	3.74775	8.24	Ca	0	.1	10.1	18.44	-	-	46	-27.56
7	4.3935	12.82	Qp	0	.1	10.1	23.02	56	-32.98	-	-
8	4.3935	12.72	Ca	0	.1	10.1	22.92	-	-	46	-23.08
9	11.11425	13.16	Qp	0	.2	10.2	23.56	60	-36.44	-	-
10	10.8555	9.36	Ca	0	.2	10.2	19.76	-	-	50	-30.24
11	21.9705	14.59	Qp	.1	.3	10.4	25.39	60	-34.61	-	-
12	21.9705	12.19	Ca	.1	.3	10.4	22.99	-	-	50	-27.01

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR) Margin (dB)
13	.17025	10.94	Qp	0	.1	10.1	21.14	64.95	-43.81	-	-
14	.1725	7.33	Ca	0	.1	10.1	17.53	-	-	54.84	-37.31
15	.258	9.12	Qp	0	.1	10.1	19.32	61.5	-42.18	-	-
16	.258	8.15	Ca	0	.1	10.1	18.35	-	-	51.5	-33.15
17	3.23025	13.44	Qp	0	.1	10.1	23.64	56	-32.36	-	-
18	3.23025	13.29	Ca	0	.1	10.1	23.49	-	-	46	-22.51
19	4.52175	15.35	Qp	0	.1	10.1	25.55	56	-30.45	-	-
20	4.52175	15.21	Ca	0	.1	10.1	25.41	-	-	46	-20.59
21	7.107	13.31	Qp	0	.2	10.2	23.71	60	-36.29	-	-
22	6.9765	12.74	Ca	0	.2	10.2	23.14	-	-	50	-26.86
23	19.2525	7.94	Qp	0	.3	10.3	18.54	60	-41.46	-	-
24	19.38075	6.23	Ca	0	.3	10.3	16.83	-	-	50	-33.17

Qp - Quasi-Peak detector

Ca - CISPR average detection