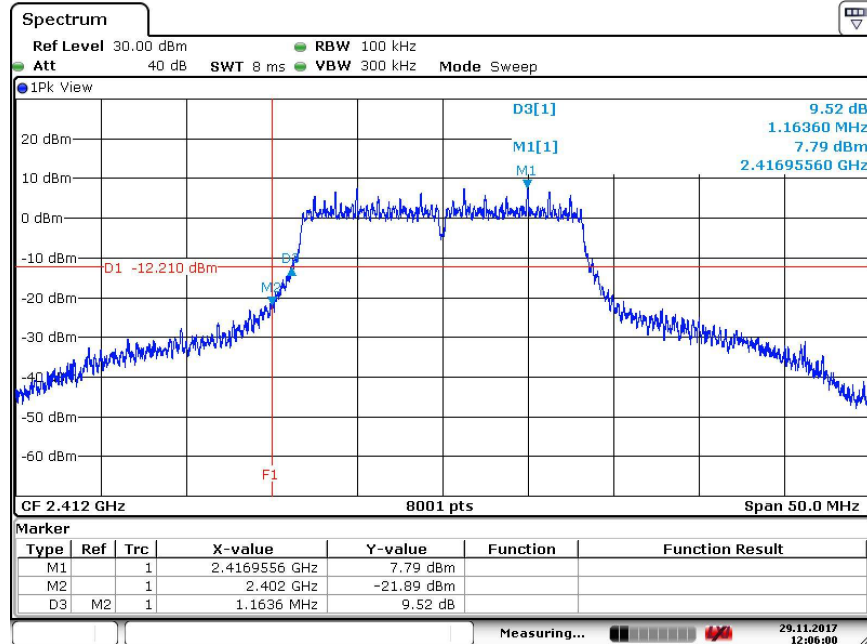




1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Band Edge Measurements

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11g			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Conducted Band Edge Measurement			Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)		
2402	2403.163600		1.164	Pass



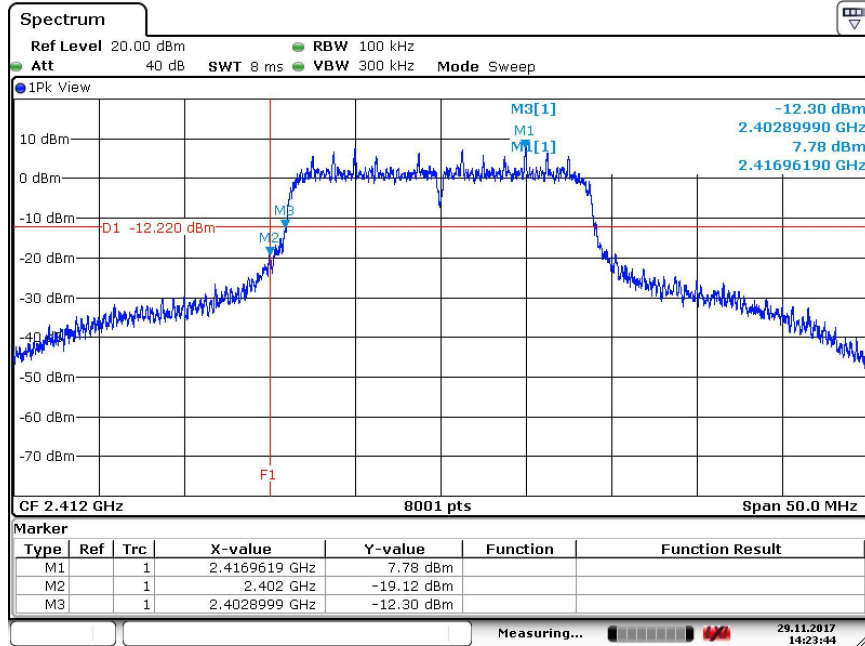
Date: 29.NOV.2017 12:06:00



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Band Edge Measurements

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11n			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Conducted Band Edge Measurement			Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)		
2402	2402.899900		0.900	Pass



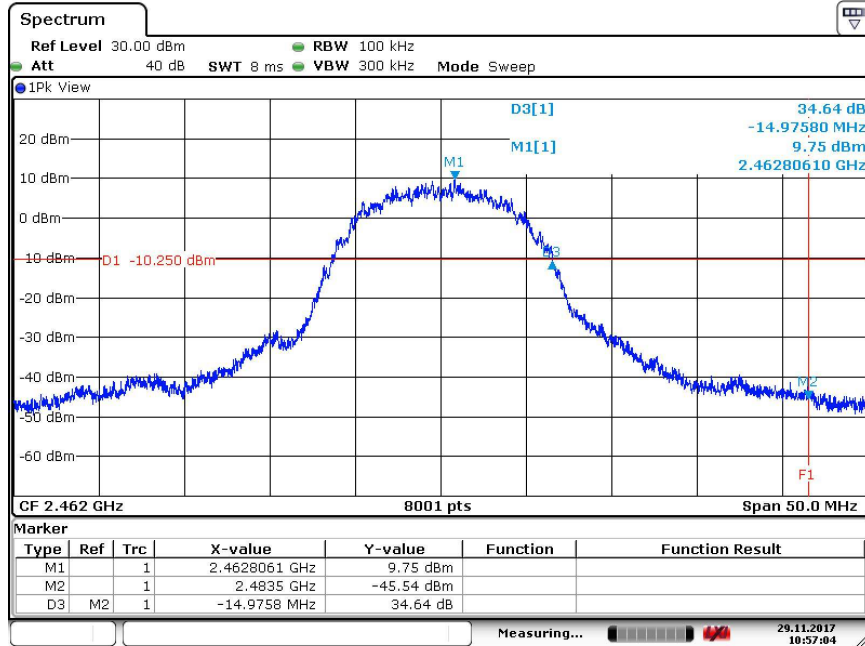
Date: 29.NOV.2017 14:23:45



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Band Edge Measurements

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11b			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Conducted Band Edge Measurement			Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)		
2483.5		2468.524200	14.976	Pass



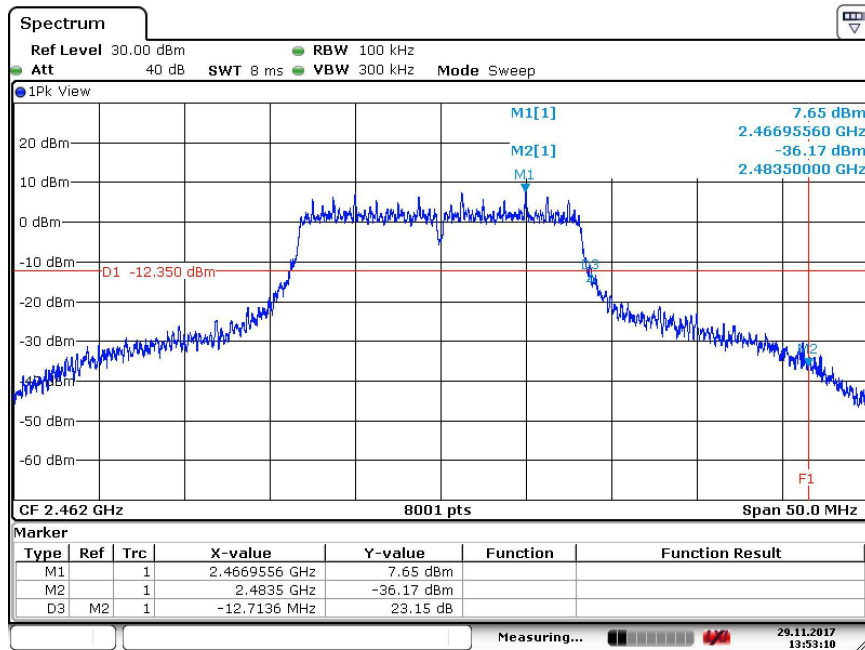
Date: 29.NOV.2017 10:57:04



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Band Edge Measurements

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11g			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Conducted Band Edge Measurement			Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)		
2483.5		2470.786400	12.714	Pass



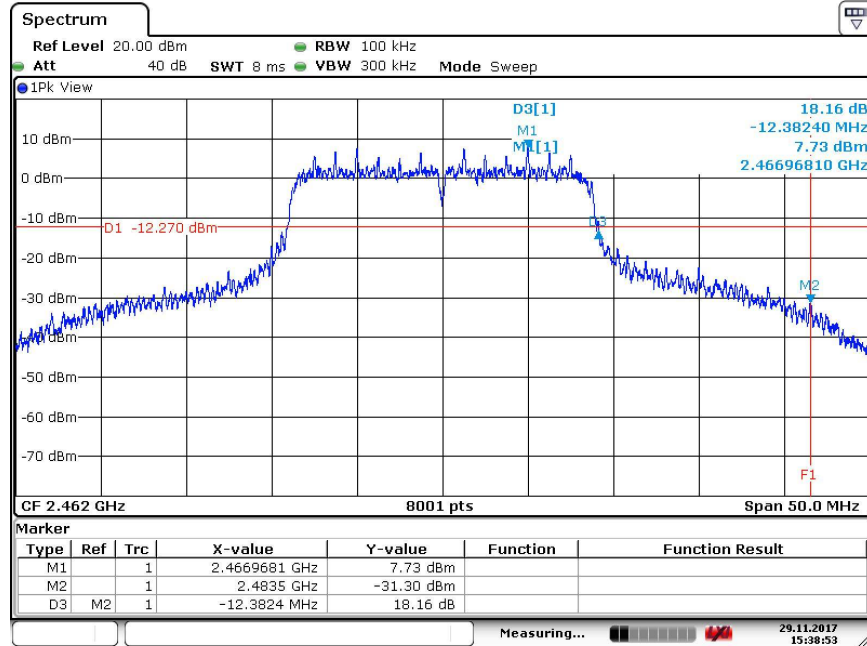
Date: 29.NOV.2017 13:53:10



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Band Edge Measurements

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11n			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Conducted Band Edge Measurement			Freq Delta (MHz)	Pass/Fail
Limit	Lower (MHz)	Upper (MHz)		
2483.5		2471.117600	12.382	Pass



Date: 29.NOV.2017 15:38:53

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Conducted Spurious	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter			Clause 15.247(a,2,d)
	Test Procedure			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Les Payne				

Test Procedure: ANSI C63.10-2013

15.247 (a,2,d) Spurious RF Conducted Emissions

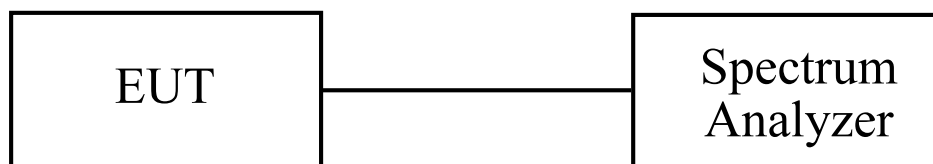
Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz
 VBW RBW
 Sweep = auto
 Detector function = peak
 Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section. Submit these plots.

Test Set Up: Same as 15.247 (a,2) 6dB Emission Bandwidth

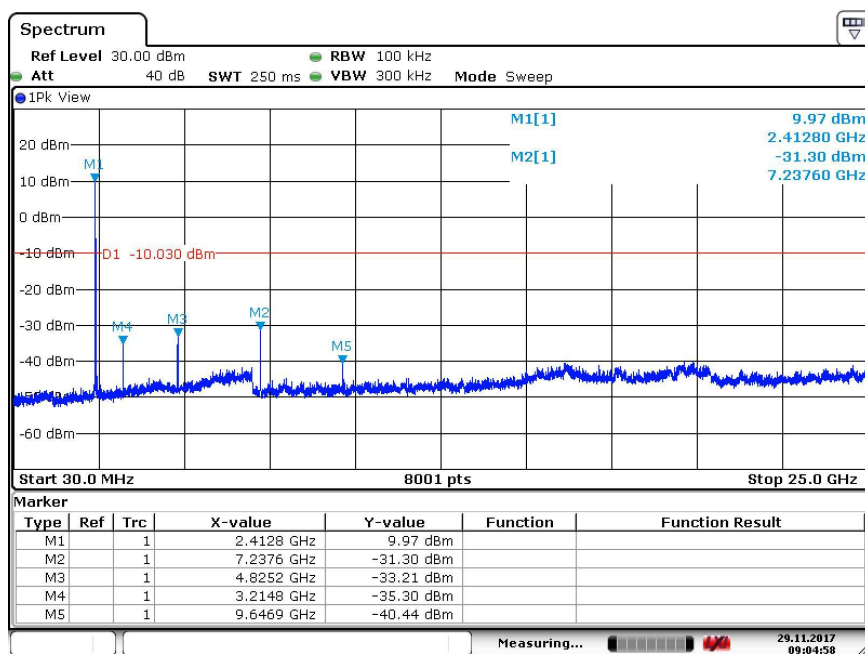




1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11b			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
Low	13.74 dBm	9.97	-10.03	Pass



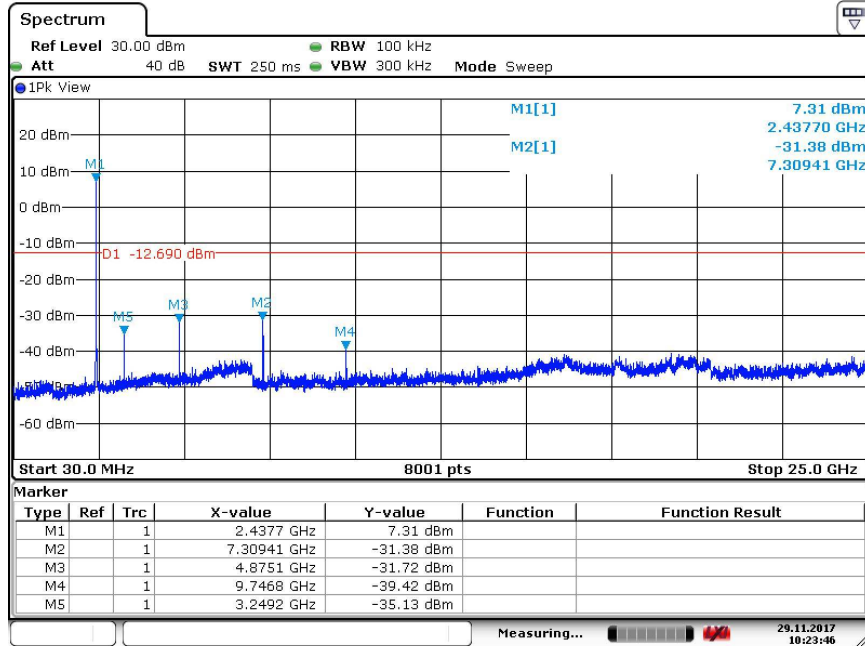
Date: 29.NOV.2017 09:04:58



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11b			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
Middle	13.87 dBm	7.31	-12.69	Pass



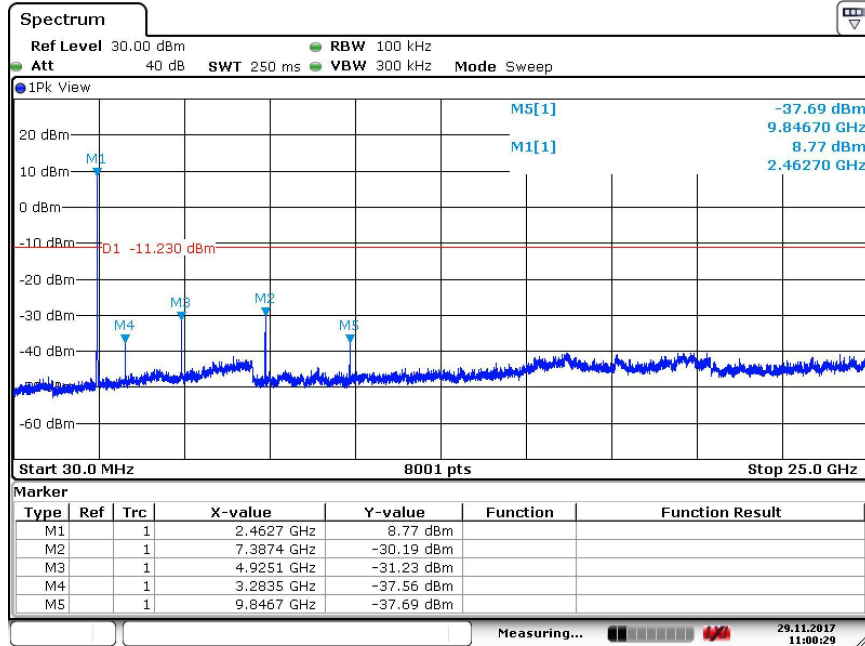
Date: 29.NOV.2017 10:23:46




1100 E Chalk Creek Road
Coalville, UT 84017
(435) 336-4433
FAX (435) 336-4436

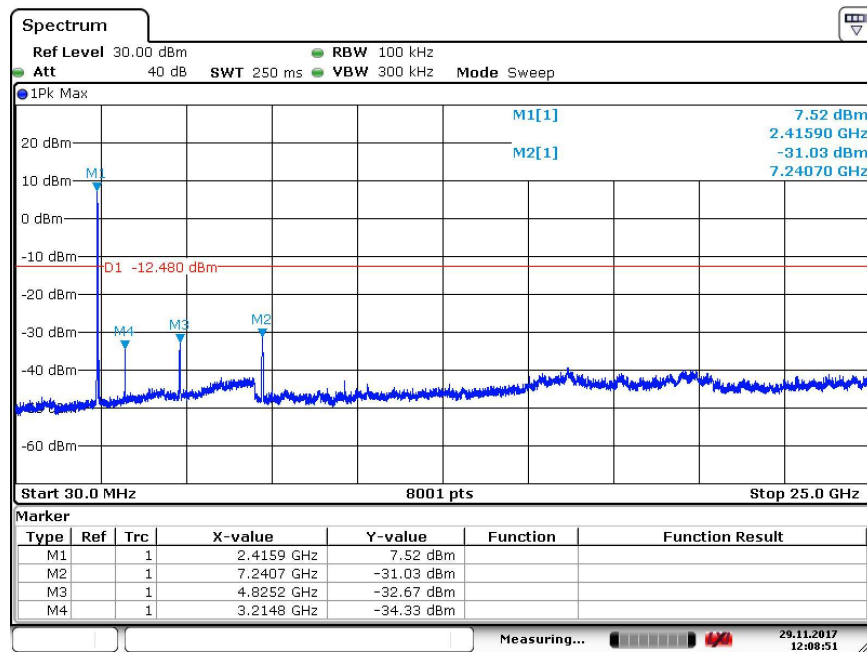
Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11b			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
High	14.20 dBm	8.77	-11.23	Pass



Date: 29.NOV.2017 11:00:29

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Conducted Spurious	
DNB Job Number:		88022		Date: 29 Nov 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		BH1			
Description:		WiFi Transmitter			
		802.11g			
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail	
Low	10.57 dBm	7.52	-12.48	Pass	



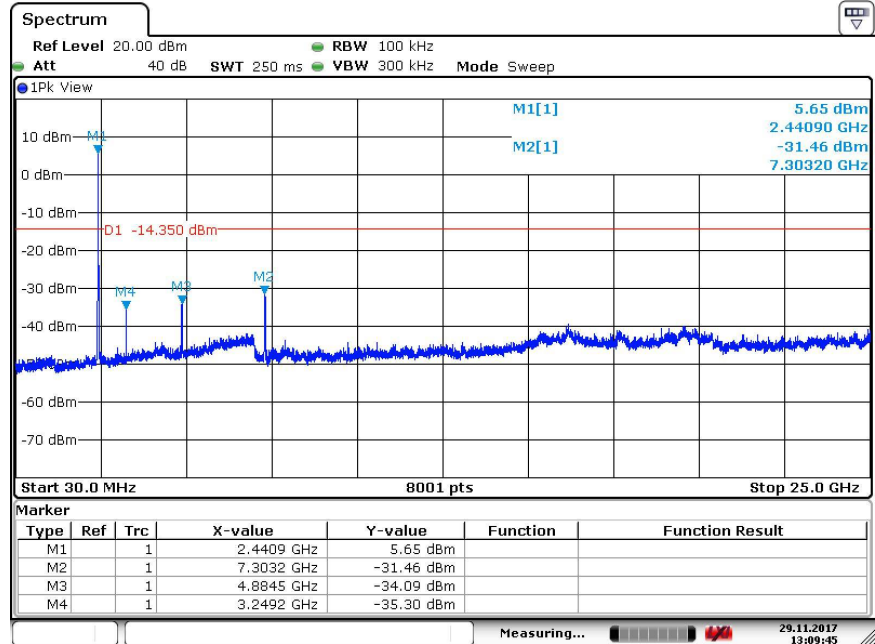
Date: 29.NOV.2017 12:08:51



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11g			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
Middle	10.51 dBm	5.65	-14.35	Pass



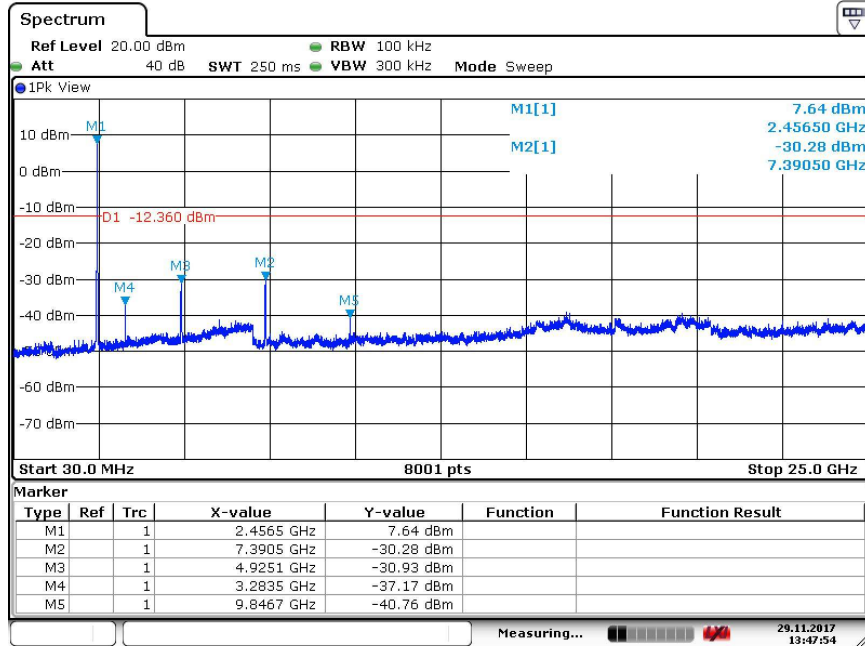
Date: 29.NOV.2017 13:09:46



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11g			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
High	10.63 dBm	7.64	-12.36	Pass



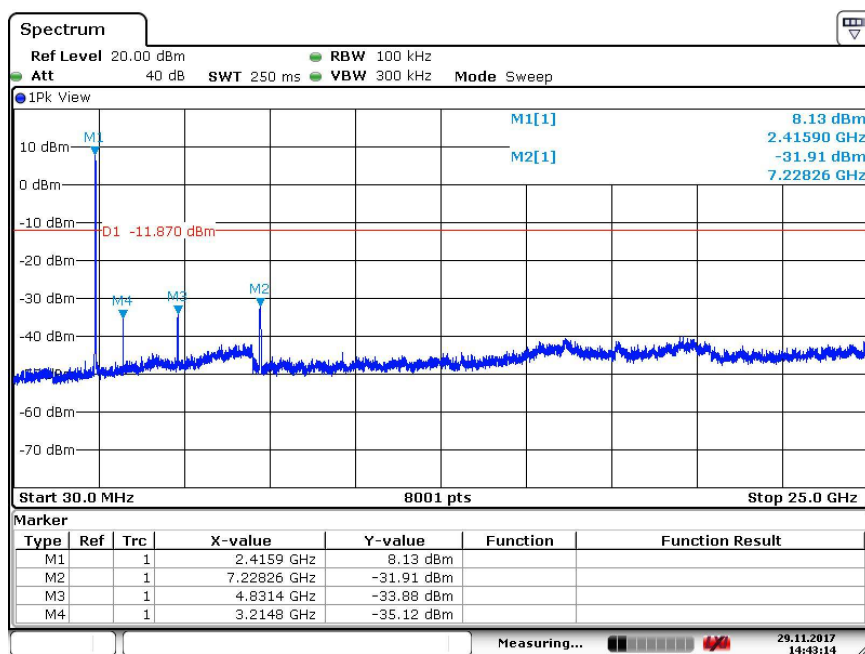
Date: 29.NOV.2017 13:47:53



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11n			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
Low	9.24 dBm	8.13	-11.87	Pass



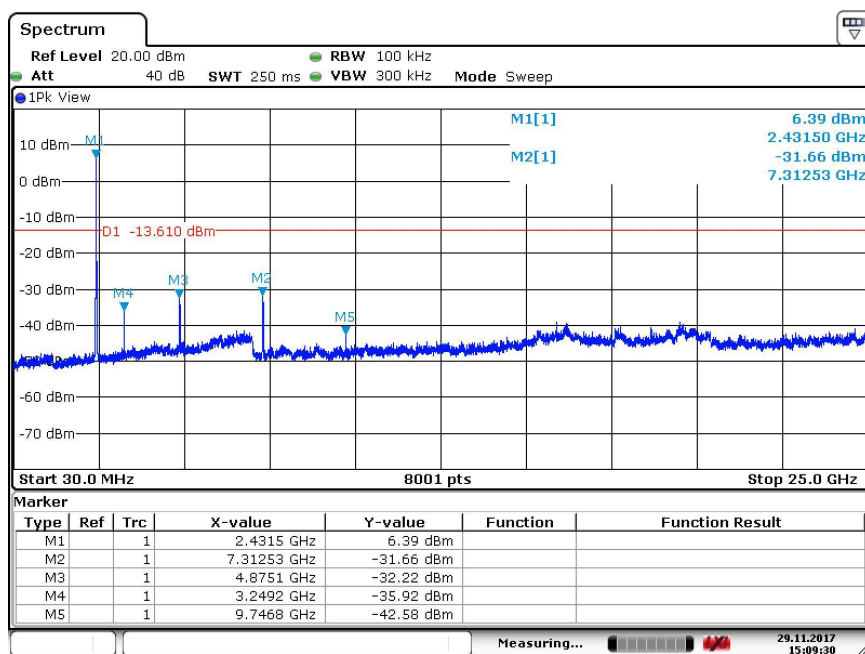
Date: 29.NOV.2017 14:43:15



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11n			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
Middle	9.35 dBm	6.39	-13.61	Pass



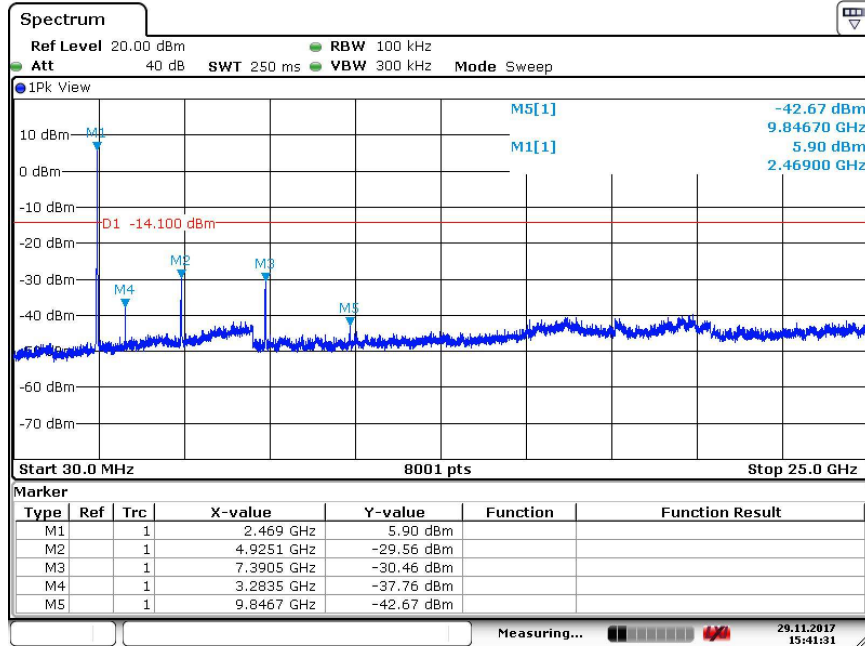
Date: 29.NOV.2017 15:09:30



1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Conducted Spurious

DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2,d)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	BH1			
Description:	WiFi Transmitter 802.11n			
Ambient Temperature		Relative Humidity		Barometric Pressure
25 °C		33 %		102.70 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne				
Channel	Peak Output Power	Reading (dBm)	-20dBc (dBm)	Pass/Fail
High	9.92 dBm	5.90	-14.1	Pass



Date: 29.NOV.2017 15:41:31

15.247(a,2,e): Power spectral density(PSD).

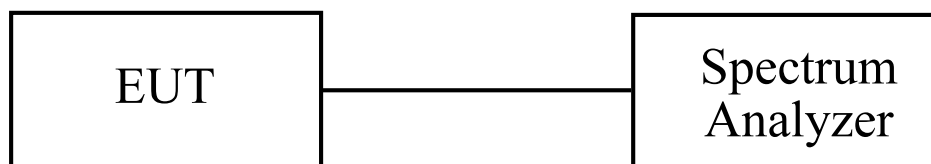
Test Procedure: ANSI C63.10-2013


Clause 11.10.2 Method PKPSD (peak PSD)

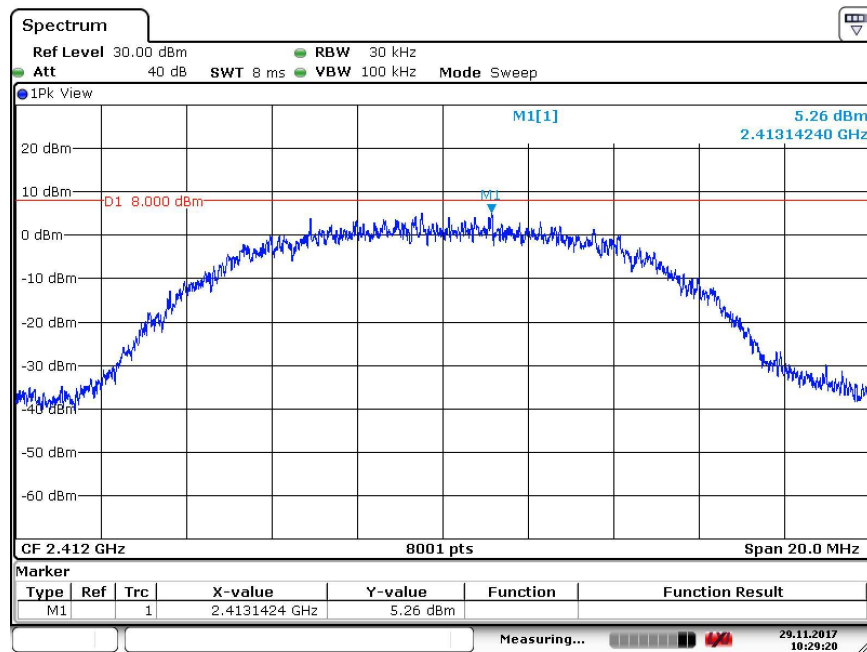
The following procedure shall be used if the maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- a) Set analyzer center frequency to DTS channel center frequency
- b) Set the span to 1.5 times the DTS bandwidth
- c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
- d) Set the VBW $\geq [3 \times \text{RBW}]$
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat
- k) Submit plots


Test Set Up: Same as 15.247 (a,2) 6dB Emission Bandwidth

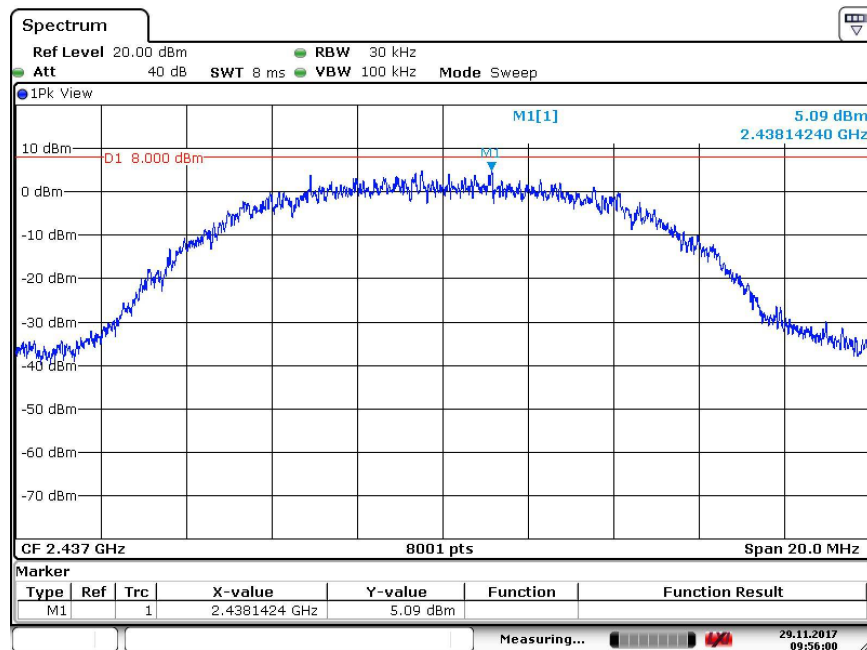


		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(d)	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	BH1				
Description:	WiFi Transmitter				
	802.11b				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Low	2412	5.26	8.0	-2.74	Pass




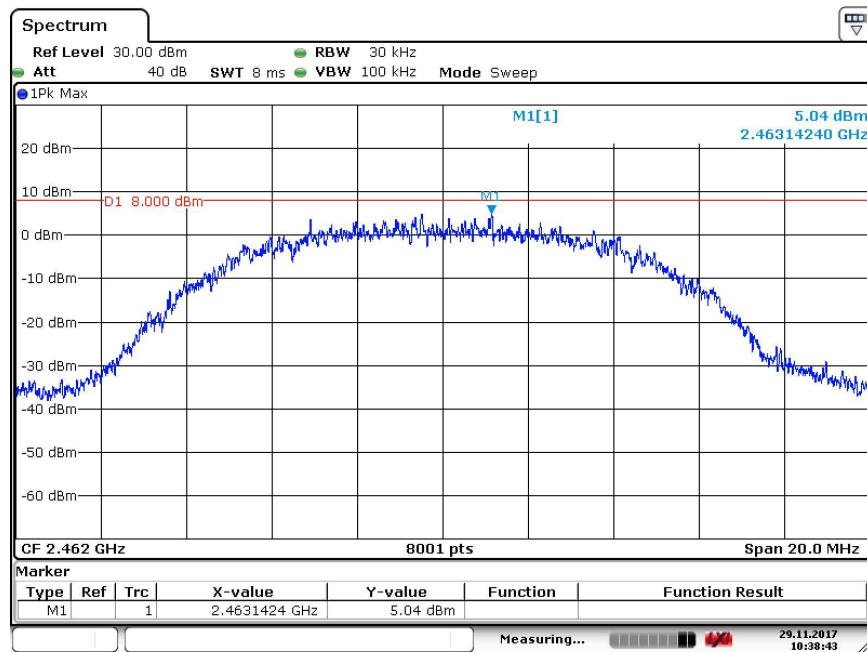
Date: 29.NOV.2017 10:29:20

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(d)	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	BH1				
Description:	WiFi Transmitter				
	802.11b				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Middle	2437	5.09	8.0	-2.91	Pass




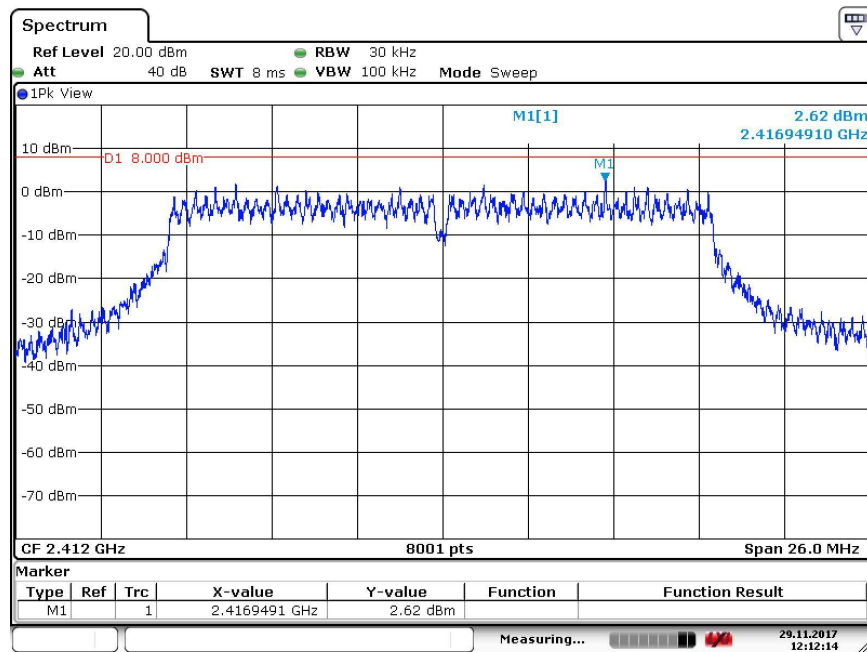
Date: 29.NOV.2017 09:56:00

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(d)	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	BH1				
Description:	WiFi Transmitter				
	802.11b				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
High	2462	5.04	8.0	-2.96	Pass




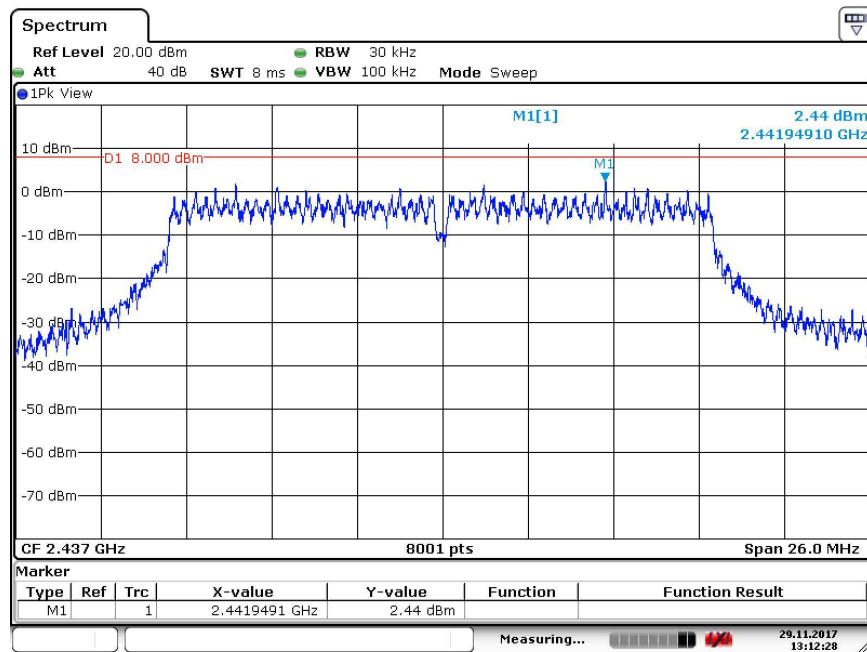
Date: 29.NOV.2017 10:38:43

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:		88022		Date: 29 Nov 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		BH1			
Description:		WiFi Transmitter			
		802.11g			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Low	2412	2.62	8.0	-5.38	Pass




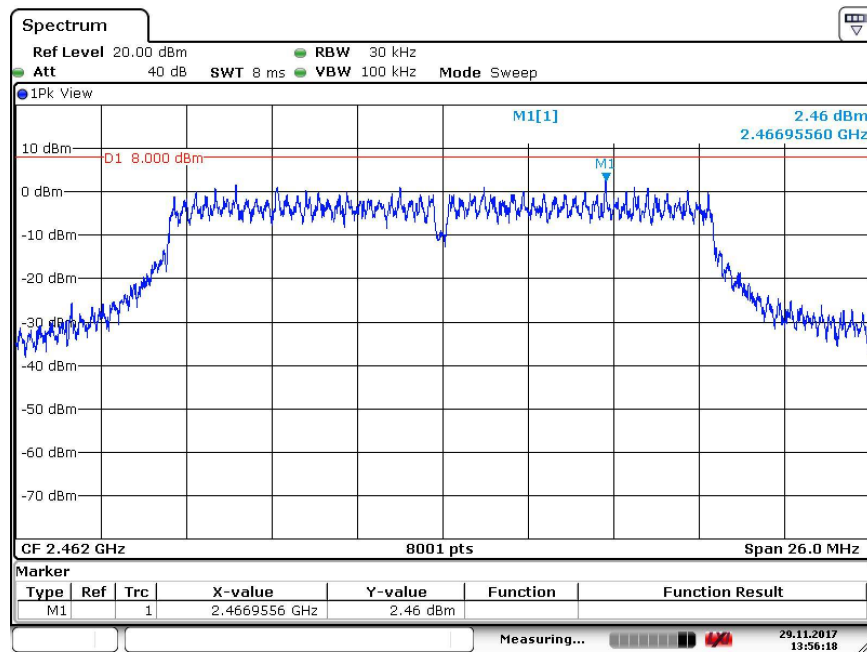
Date: 29.NOV.2017 12:12:14

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(d)	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	BH1				
Description:	WiFi Transmitter				
	802.11g				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Middle	2437	2.44	8.0	-5.56	Pass




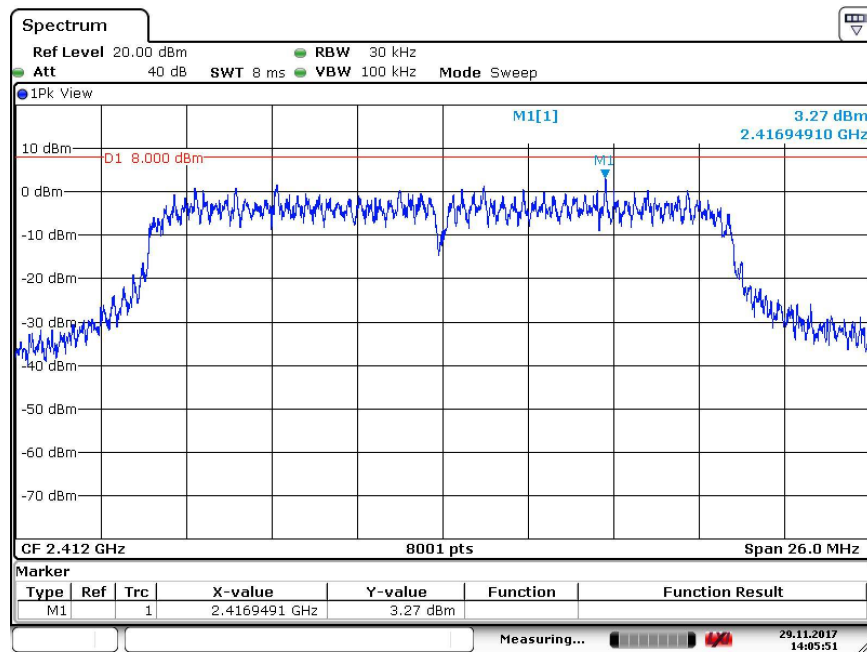
Date: 29.NOV.2017 13:12:28

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:		88022		Date: 29 Nov 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		BH1			
Description:		WiFi Transmitter			
		802.11g			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
High	2462	2.46	8.0	-5.54	Pass




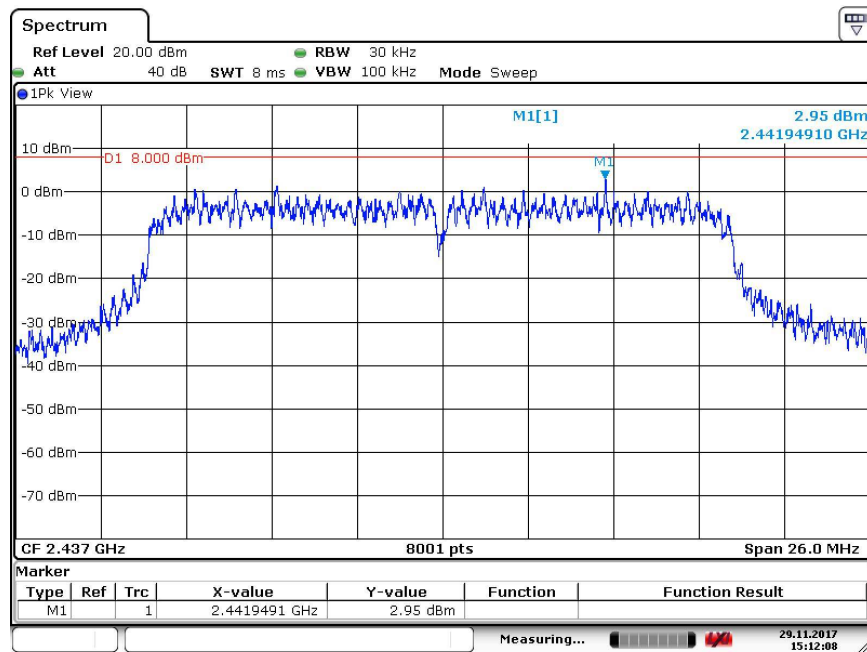
Date: 29.NOV.2017 13:56:18

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:	88022	Date:	29 Nov 2017	Conformance Standard FCC Part 15 Clause 15.247(d)	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	BH1				
Description:	WiFi Transmitter				
	802.11n				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Low	2412	3.27	8.0	-4.73	Pass




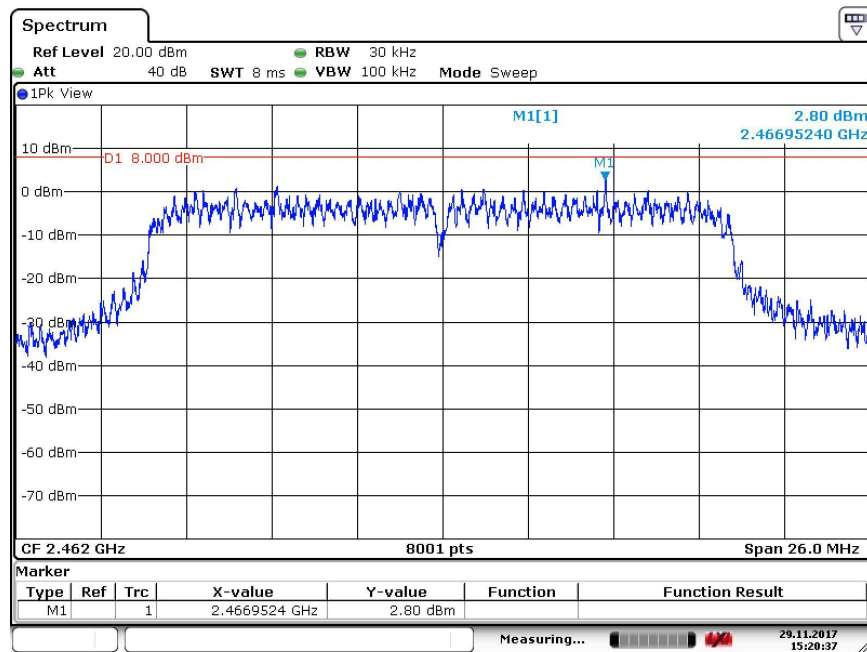
Date: 29.NOV.2017 14:05:51

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:		88022		Date: 29 Nov 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		BH1			
Description:		WiFi Transmitter			
		802.11n			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
Middle	2437	2.95	8.0	-5.05	Pass



Date: 29.NOV.2017 15:12:09

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		<h2>Power Spectral Density</h2>	
DNB Job Number:		88022		Date: 29 Nov 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		BH1			
Description:		WiFi Transmitter			
		802.11n			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
25 °C		33 %		102.70 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CL Payne					
Channel	Freq MHz	Meas PSD (dBm)	Limit (dBm)	Delta (dBm)	Pass/Fail
High	2462	2.8	8.0	-5.2	Pass



Date: 29.NOV.2017 15:20:37

2.1033 (b) (7) Equipment Photographs

Supplied separately for confidentiality

End of Report UT86022C-002