

Itron, Inc.

TEST REPORT FOR

ORRNC
Model: RN-EGM

Tested to The Following Standards:

FCC Part 15 Subpart C Section(s)

15.207 & 15.247
(FHSS 902-928 MHz)

Report No.: 103786-4

Date of issue: June 24, 2020



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

Test Certificate # 803.01

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TABLE OF CONTENTS

Administrative Information	3
Test Report Information	3
Report Authorization	3
Test Facility Information	4
Software Versions.....	4
Site Registration & Accreditation Information	4
Summary of Results.....	5
Modifications During Testing.....	5
Conditions During Testing.....	5
Equipment Under Test.....	6
General Product Information.....	6
FCC Part 15 Subpart C	8
15.247(a) Transmitter Characteristics	8
15.247(a)(1) 20 dB Bandwidth.....	8
15.247(a)(1) Carrier Separation.....	18
15.247(a)(1)(i) Number of Hopping Channels	19
15.247(a)(1)(i) Time of Occupancy	20
15.247(b)(2) Output Power	22
15.247(d) RF Conducted Emissions & Band Edge	36
15.247(d) Radiated Emissions & Band Edge	56
15.207 AC Conducted Emissions.....	90
Supplemental Information.....	97
Measurement Uncertainty	97
Emissions Test Details.....	97

ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Ittron, Inc.
2111 N. Molter Road
Liberty Lake, WA 99019

Representative: Jay Holcomb
Customer Reference Number: 205550

REPORT PREPARED BY:

Darcy Thompson
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 103786

DATE OF EQUIPMENT RECEIPT:
DATE(S) OF TESTING:

April 27, 2020
April 27 – May 15, 2020

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
22116 23rd Drive S.E., Suite A
Canyon Park, Bothell, WA 98021

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.12

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Japan
Canyon Park, Bothell, WA	US0081	US1022	A-0136
Brea, CA	US0060	US1025	A-0136
Fremont, CA	US0082	US1023	A-0136
Mariposa, CA	US0103	US1024	A-0136

*CKC's list of NIST designated countries can be found at: <https://standards.gov/cabs/designations.html>

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C - 15.247 (FHSS 902-928MHz)

Test Procedure	Description	Modifications	Results
15.247(a)(1)(i)	Occupied Bandwidth	NA	Pass
15.247(a)(1)	Carrier Separation	NA	Pass
15.247(a)(1)(i)	Number of Hopping Channels	NA	Pass
15.247(a)(1)(i)	Average Time of Occupancy	NA	NP
15.247(b)(2)	Output Power	NA	Pass
15.247(d)	RF Conducted Emissions & Band Edge	NA	Pass
15.247(d)	Radiated Emissions & Band Edge	NA	Pass
15.207	AC Conducted Emissions	NA	Pass

NA = Not Applicable

NP = CKC Laboratories was not contracted to perform test. See Section for manufacturer declaration.

ISO/IEC 17025 Decision Rule

The declaration of pass or fail herein is based upon assessment to the specification(s) listed above, including where applicable, assessment of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions

No modifications were made during testing.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions

None

EQUIPMENT UNDER TEST (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
ORRNC	Itron, Inc.	RN-EGM	FCC-1

Support Equipment:

Device	Manufacturer	Model #	S/N
Antenna (Transceiver)	PCTEL	BOA9022NM-ITR	NA
Antenna (Receiver)	PCTEL	BOA9025NM-ITR	NA

Configuration 2

Equipment Tested:

Device	Manufacturer	Model #	S/N
ORRNC	Itron, Inc.	RN-EGM	FCC-1

Support Equipment:

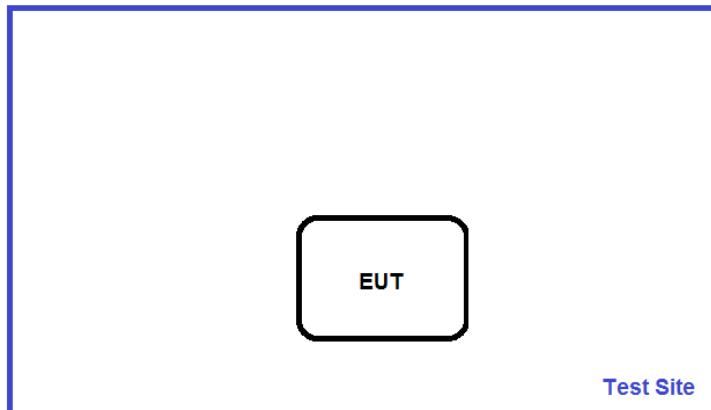
Device	Manufacturer	Model #	S/N
Laptop	HP	14-dq1033cl	NA
AC Adapter (For Laptop)	HP	L25296-002	NA

General Product Information:

Product Information	Manufacturer-Provided Details
Equipment Type:	Stand-Alone Equipment
Type of Wideband System:	Proprietary FHSS
Operating Frequency Range:	902.4 to 927.6MHz
Number of Hopping Channels:	64
Receiver Bandwidth and Synchronization:	The manufacturer declares the receiver input bandwidth matches the transmit channel bandwidth and shifts frequencies in synchronization with the transmitter.
Modulation Type(s):	50kbps, 150kbps GFSK 6.25kbps, 12.5kbps OQPSK 200kbps, 600kbps OFDM
Maximum Duty Cycle:	Assume 100% as worst case
Number of TX Chains:	1
Antenna Type(s) and Gain:	Omnidirectional, 2.6dBi
Beamforming Type:	NA
Antenna Connection Type:	External Connector (Professional Installation)
Nominal Input Voltage:	115VAC Nominal (85-264VAC supported)
Firmware / Software used for Test:	BrtLoader v4.8.5.4 Certification GUI vUpdate2 Test FW 0.0.0.0 (current as of 4/27/2020)

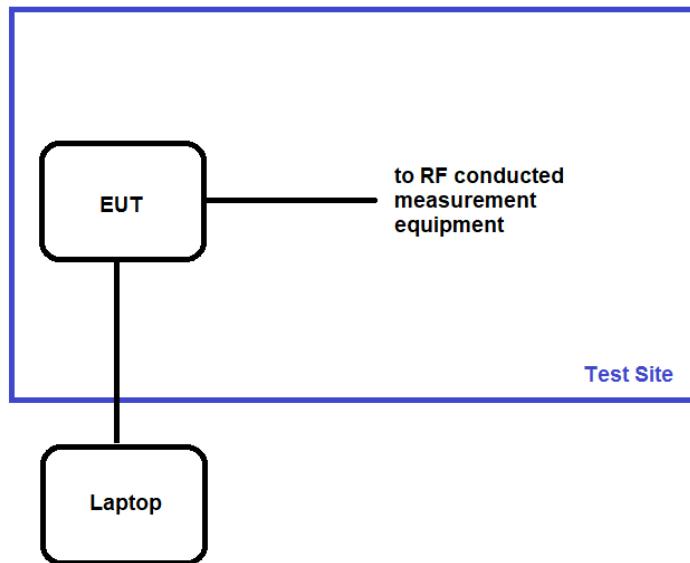
Block Diagram of Test Setup(s)

Test Setup Block Diagram



Configuration 1

Test Setup Block Diagram



Configuration 2

FCC Part 15 Subpart C

15.247(a) Transmitter Characteristics

Test Setup/Conditions

Test Location:	Bothell Lab C3	Test Engineer:	M. Atkinson
Test Method:	ANSI C63.10 (2013)	Test Date(s):	4/27/2020 to 4/28/2020
Configuration:	2		
Test Setup:	The equipment under test (EUT) is placed on the tabletop. The output of the EUT is connected to the spectrum analyzer using a coaxial cable and attenuator. The EUT is transmitting at its rated output power.		

Environmental Conditions

Temperature (°C)	24	Relative Humidity (%):	39
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Test Equipment

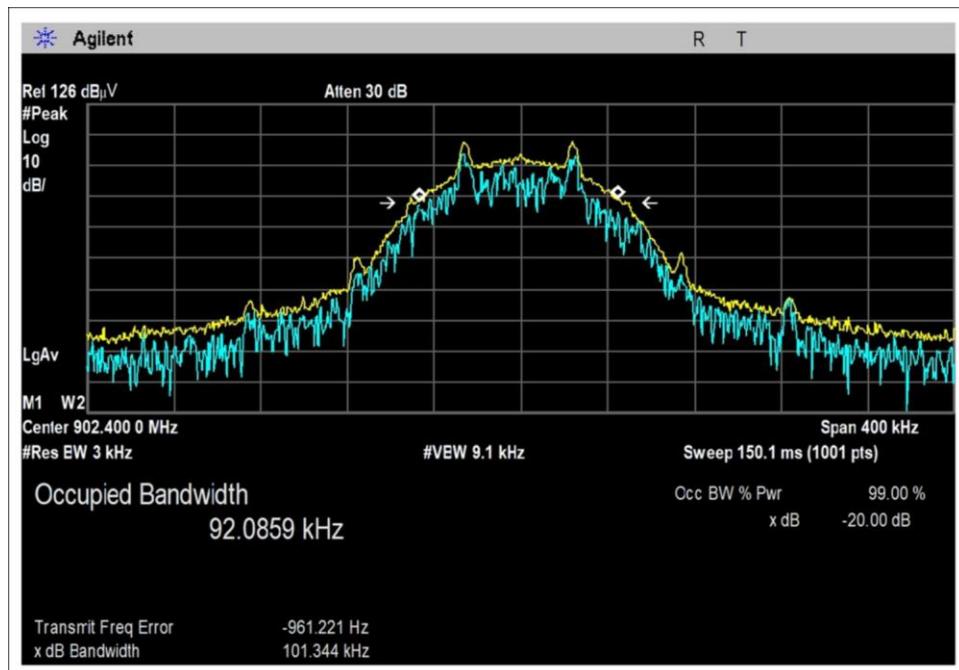
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
02872	Spectrum Analyzer	Agilent	E4440A	11/18/2019	11/18/2021
P05748	Attenuator	Pasternack	PE7004-20	3/4/2020	3/4/2022
P05546	Cable	Andrews	Heliax	8/24/2018	8/24/2020

15.247(a)(1) 20 dB Bandwidth

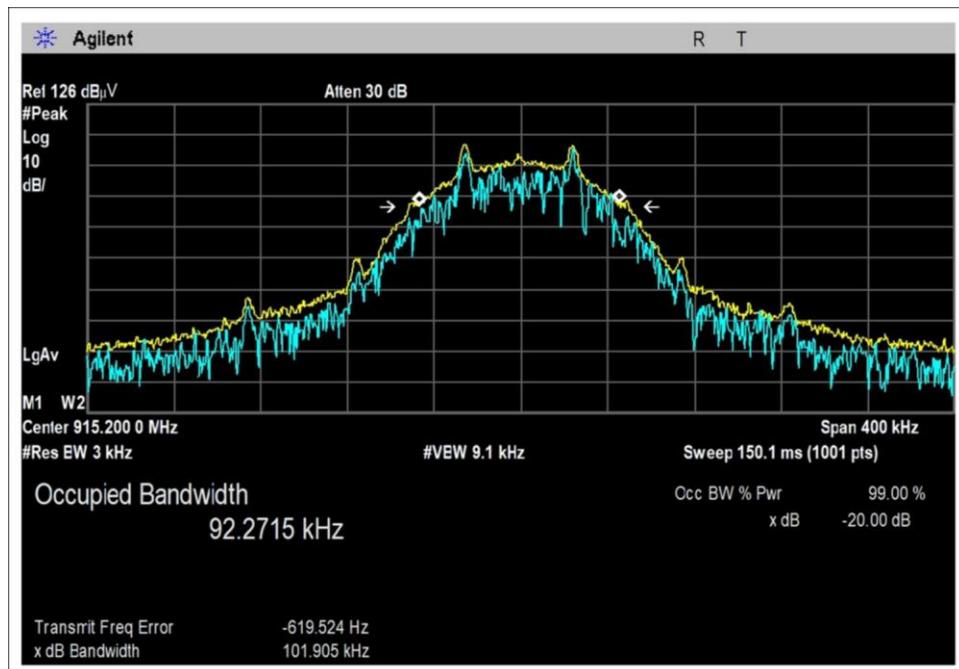
Test Data Summary

Frequency (MHz)	Antenna Port	Modulation	Measured (kHz)	Limit (kHz)	Results
902.4	1	FSK 50k	101.344	≤500	Pass
915.2	1	FSK 50k	101.905	≤500	Pass
927.6	1	FSK 50k	101.608	≤500	Pass
902.4	1	FSK 150k	182.078	≤500	Pass
915.2	1	FSK 150k	181.181	≤500	Pass
927.6	1	FSK 150k	179.903	≤500	Pass
902.4	1	OQPSK 6.25k	131.910	≤500	Pass
915.2	1	OQPSK 6.25k	129.714	≤500	Pass
927.6	1	OQPSK 6.25k	129.439	≤500	Pass
902.4	1	OQPSK 12.5k	129.398	≤500	Pass
915.2	1	OQPSK 12.5k	130.400	≤500	Pass
927.6	1	OQPSK 12.5k	129.474	≤500	Pass
902.4	1	OFDM 200k	338.482	≤500	Pass
915.2	1	OFDM 200k	335.433	≤500	Pass
927.6	1	OFDM 200k	338.108	≤500	Pass
902.4	1	OFDM 600k	334.818	≤500	Pass
915.2	1	OFDM 600k	329.729	≤500	Pass
927.6	1	OFDM 600k	332.693	≤500	Pass

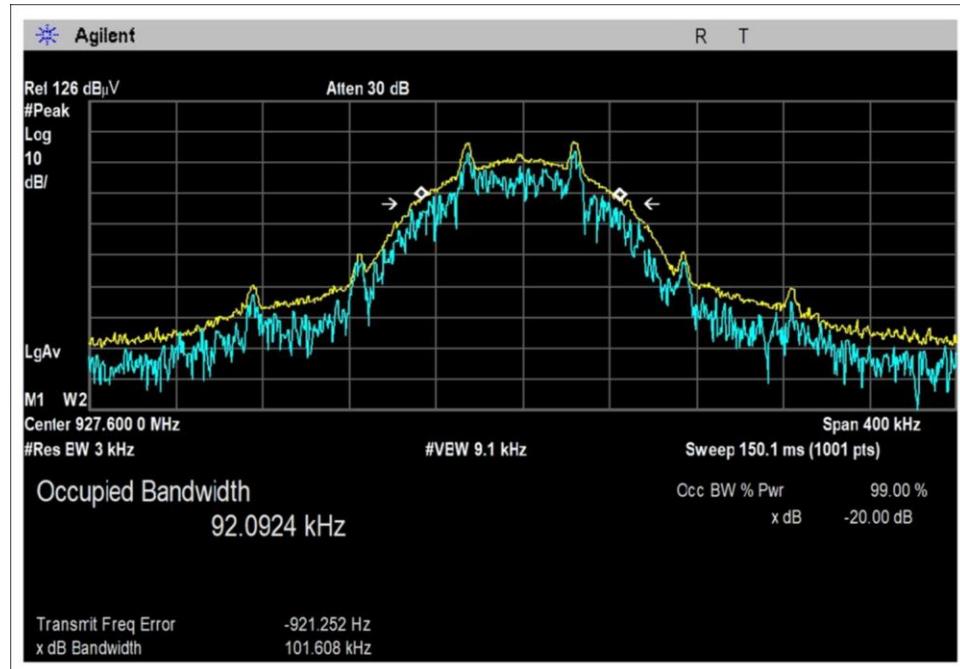
Plot(s)



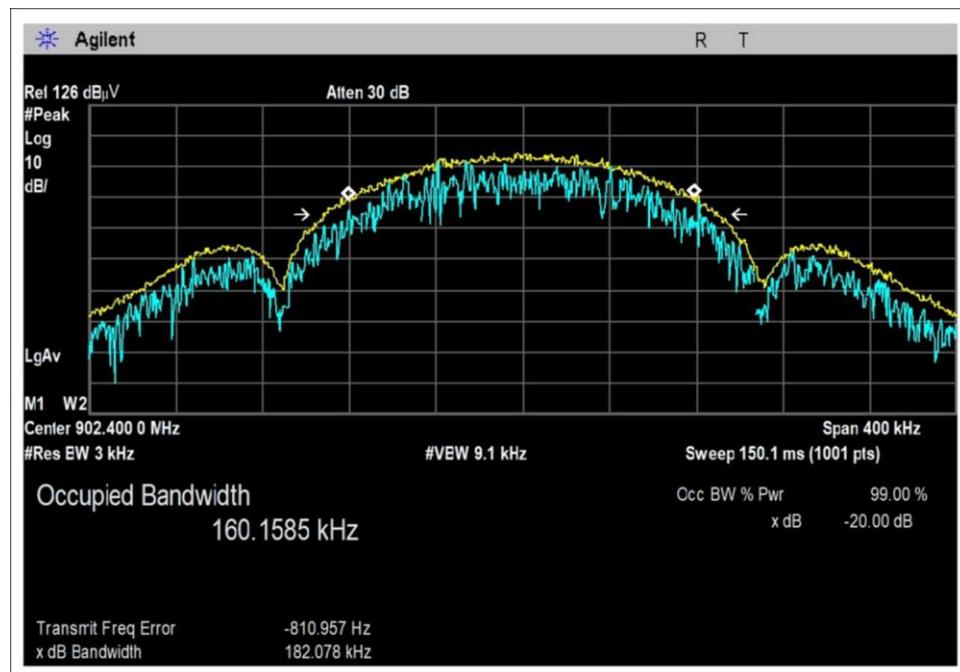
FSK 50kbps Low Channel



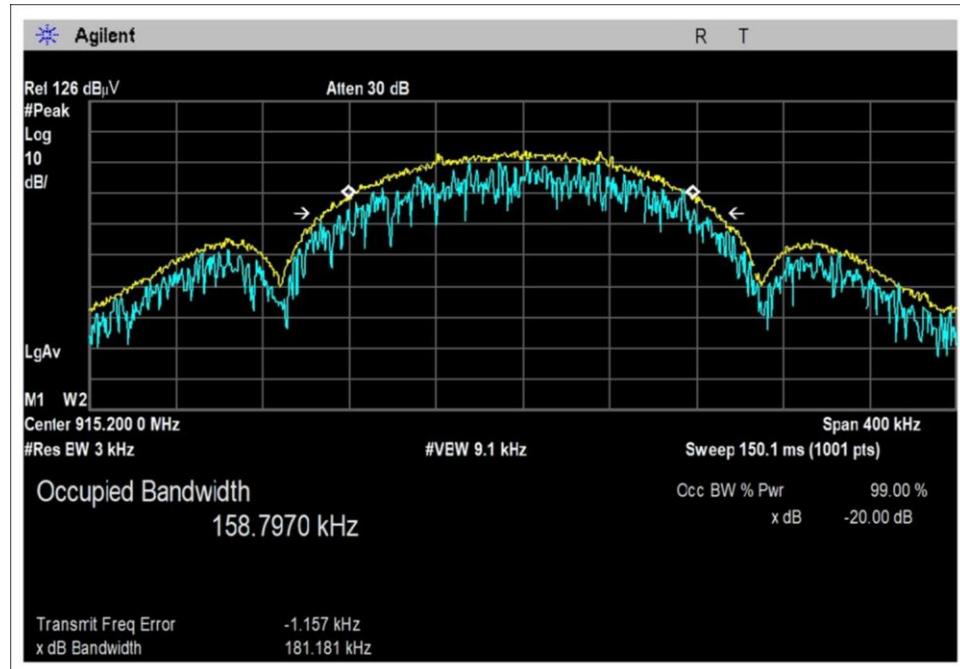
FSK 50kbps Middle Channel



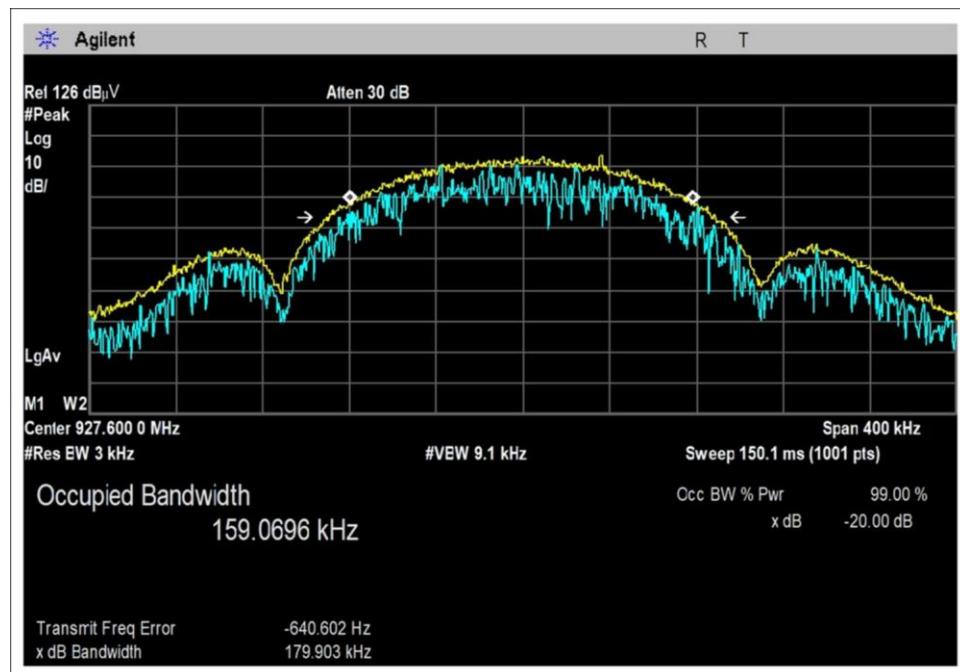
FSK 50kbps High Channel



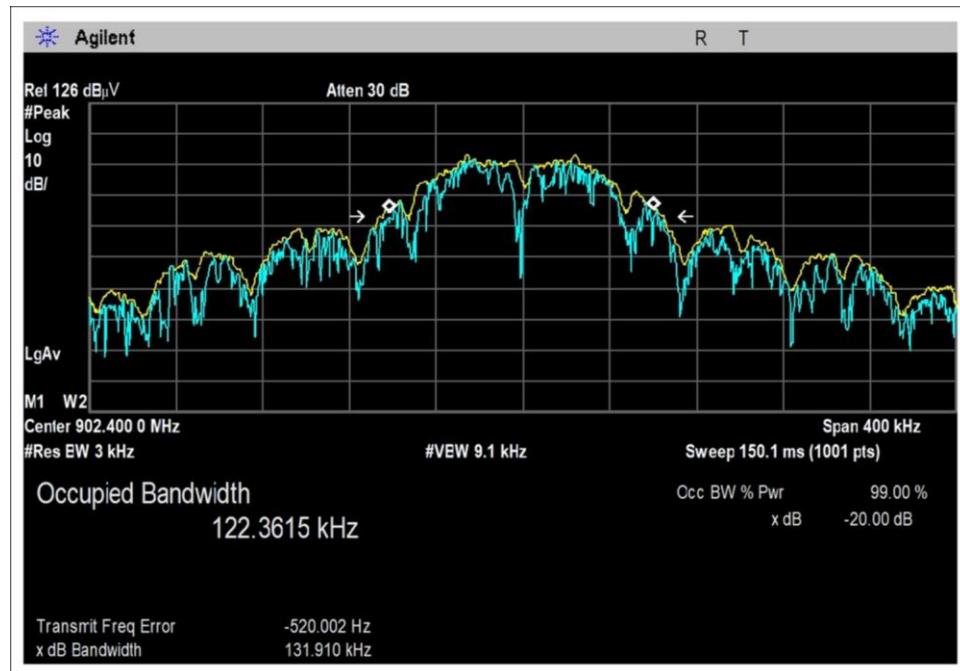
FSK 150kbps Low Channel



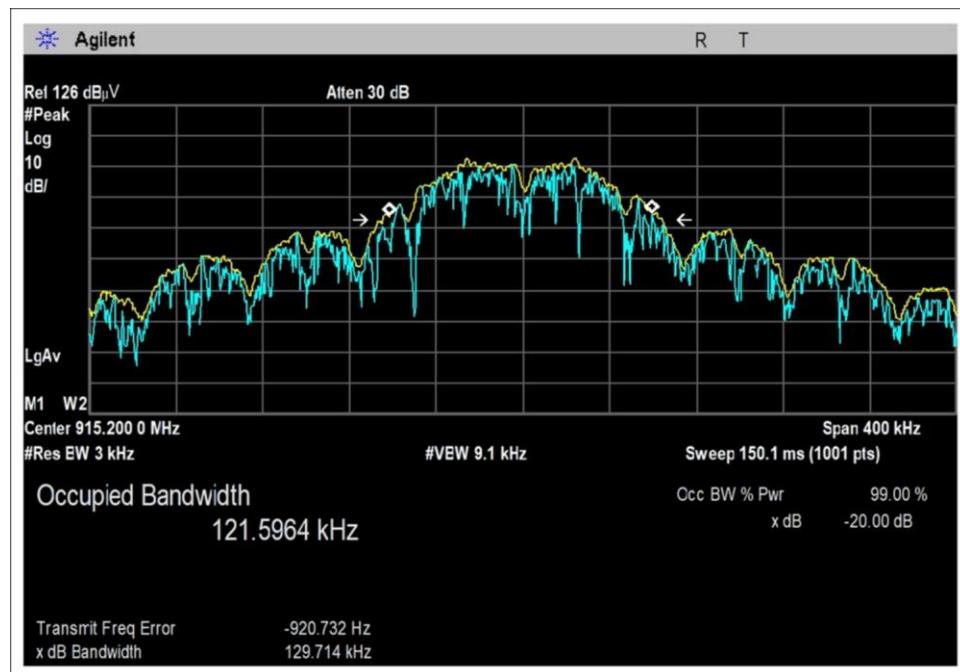
FSK 150kbps Middle Channel



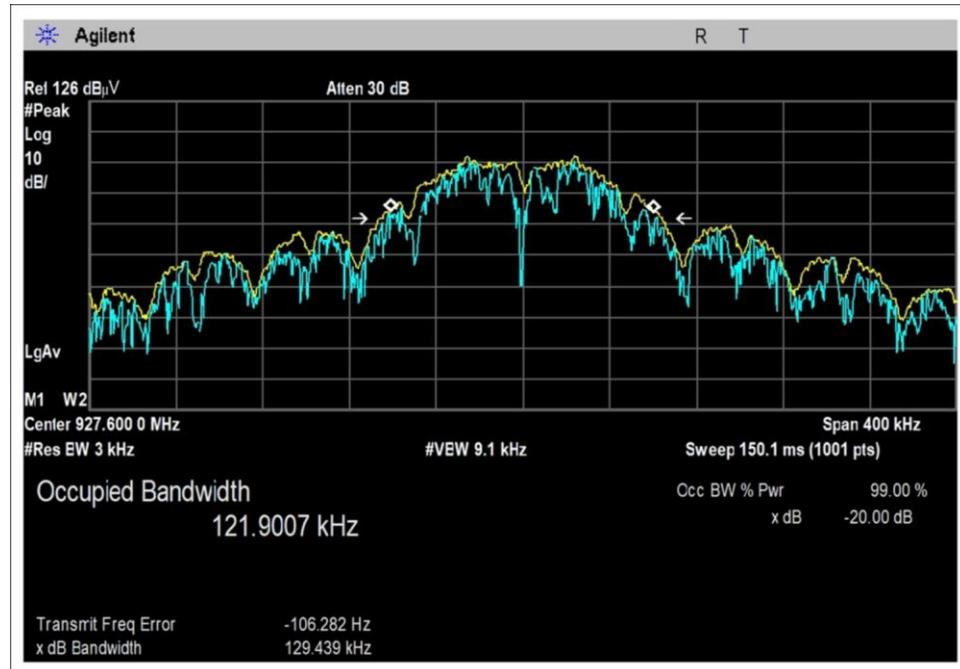
FSK 150kbps High Channel



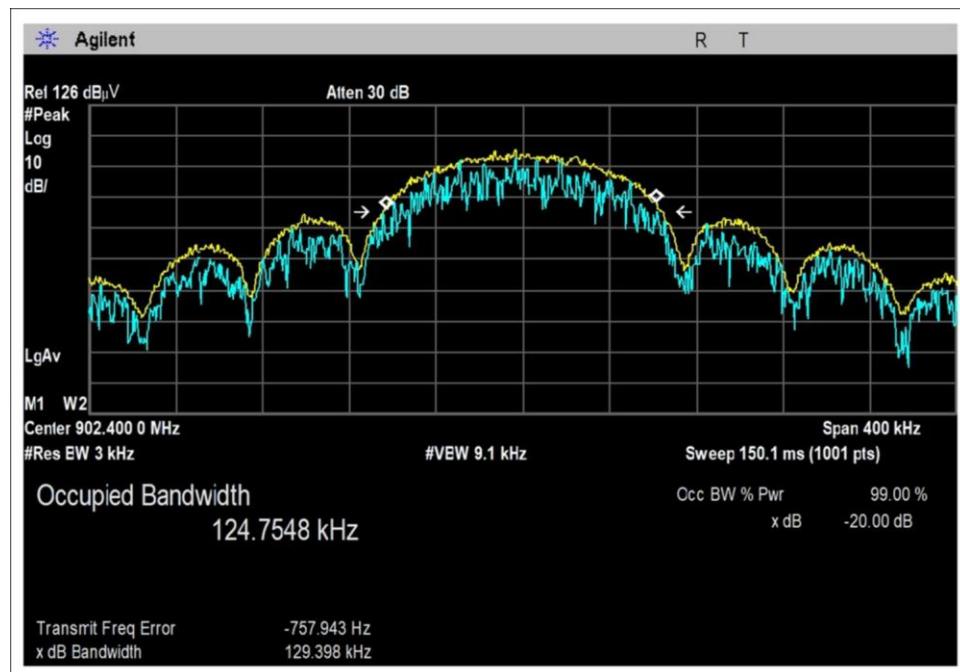
OQPSK 6.25kbps Low Channel



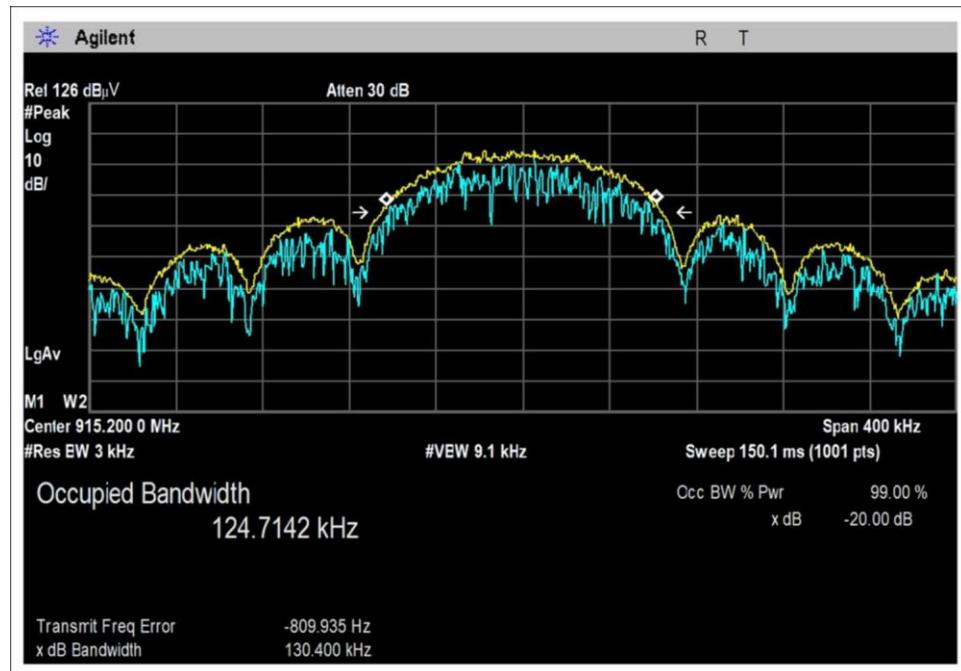
OQPSK 6.25kbps Middle Channel



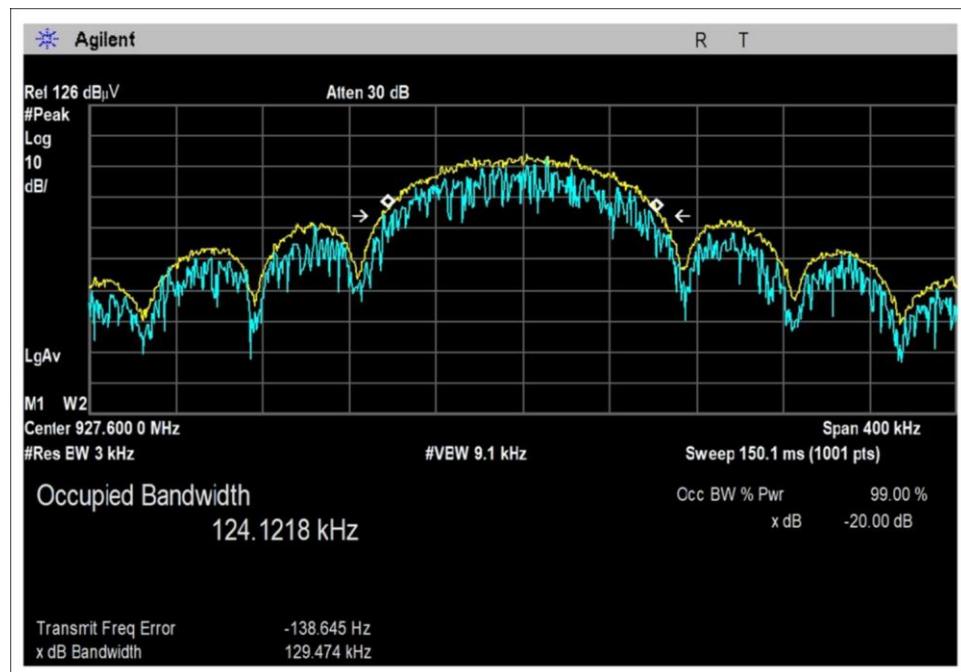
OQPSK 6.25kbps High Channel



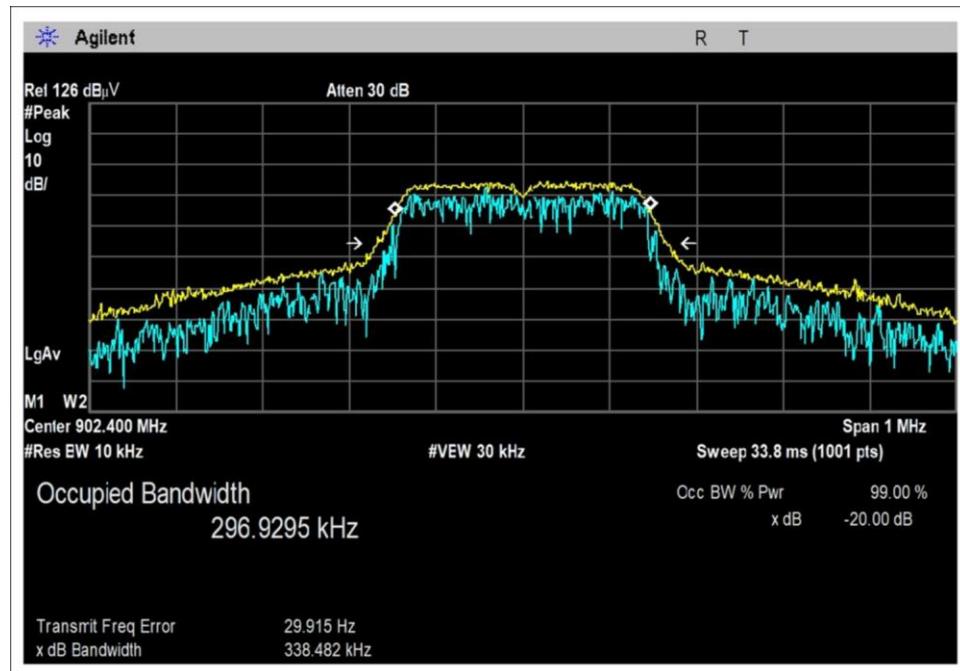
OQPSK 12.5kbps Low Channel



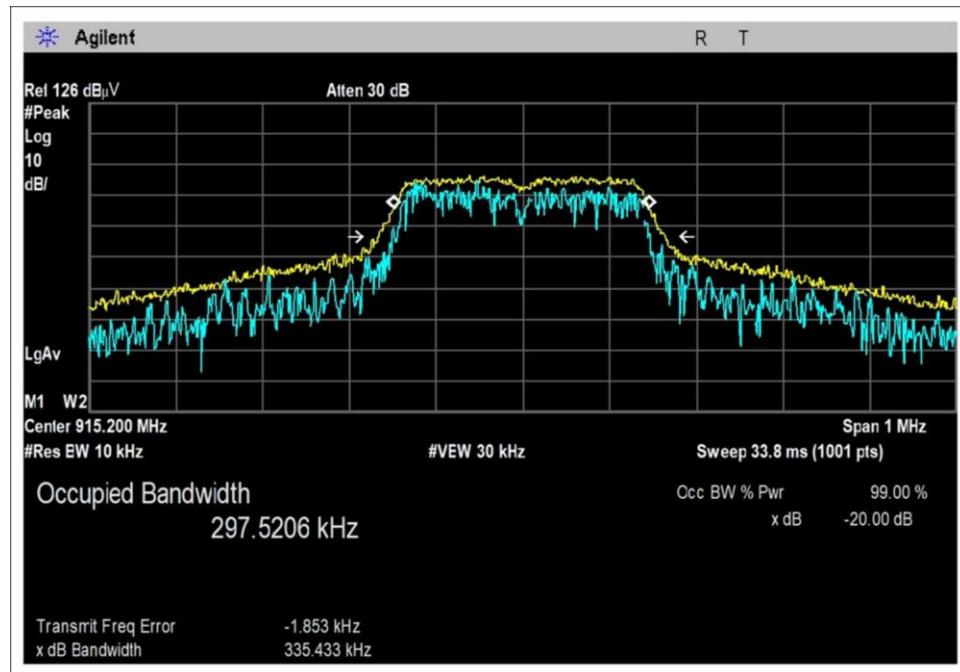
OQPSK 12.5kbps Middle Channel



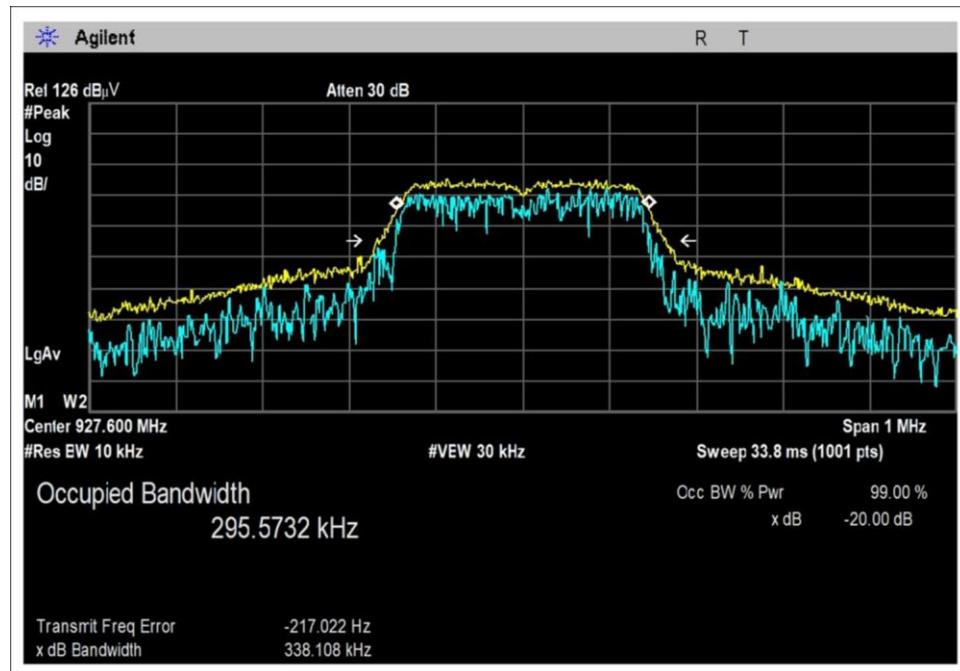
OQPSK 12.5kbps High Channel



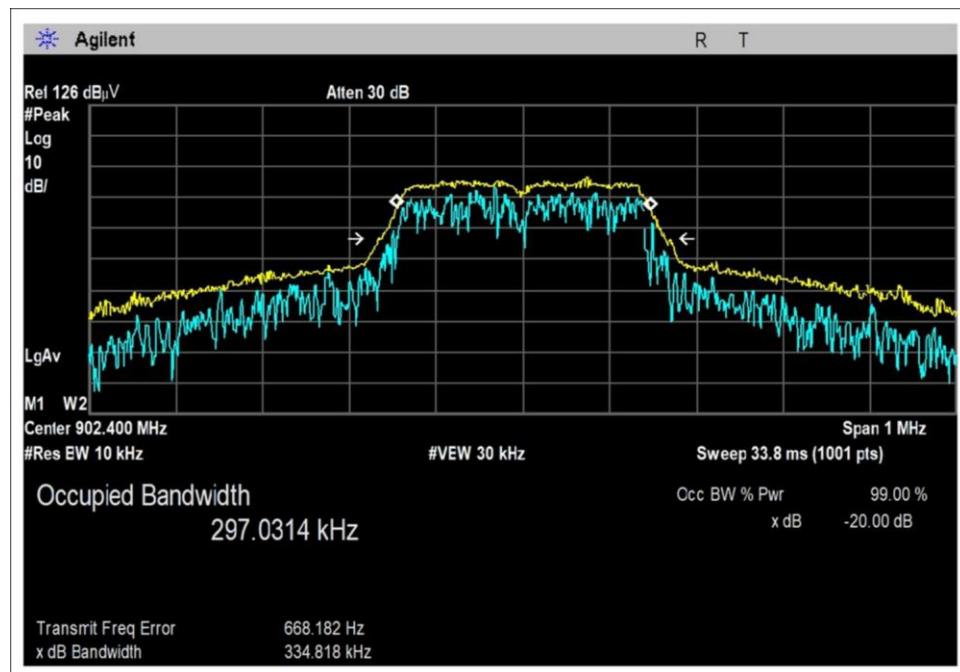
OFDM 200kbps Low Channel



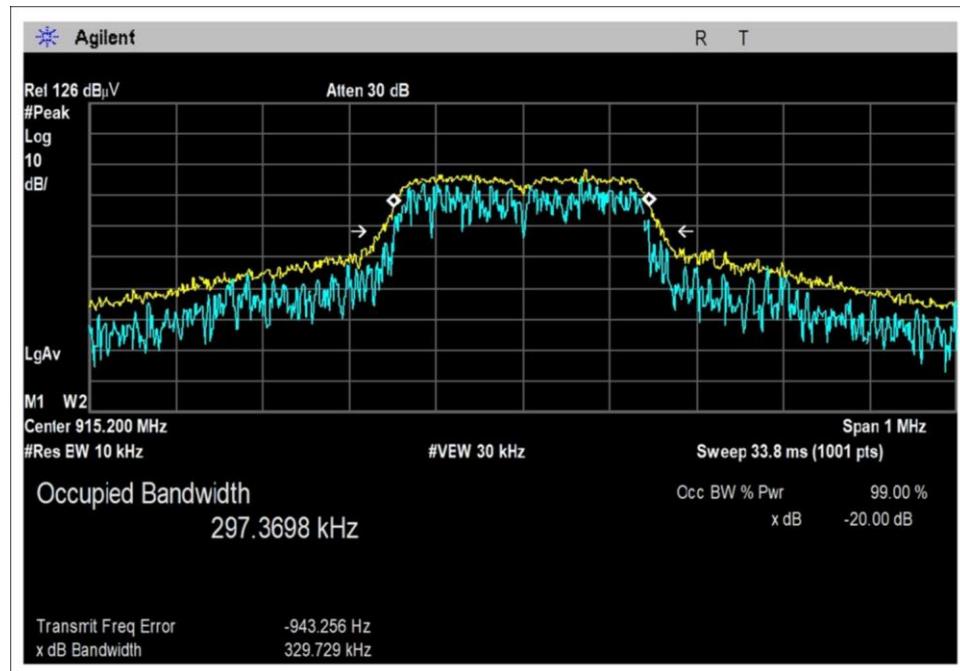
OFDM 200kbps Middle Channel



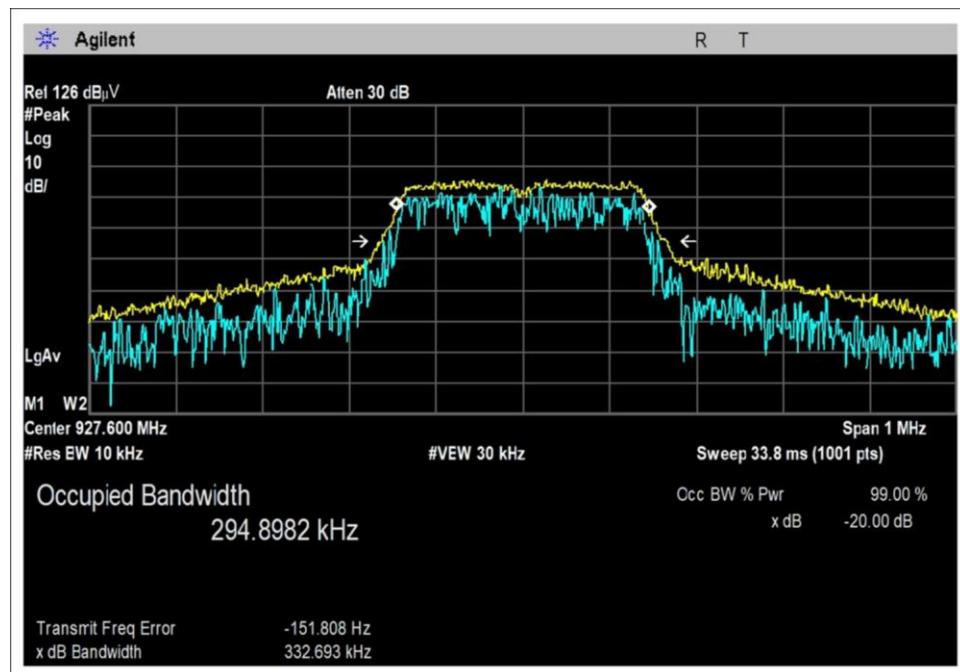
OFDM 200kbps High Channel



OFDM 600kbps Low Channel



OFDM 600kbps Middle Channel



OFDM 600kbps High Channel

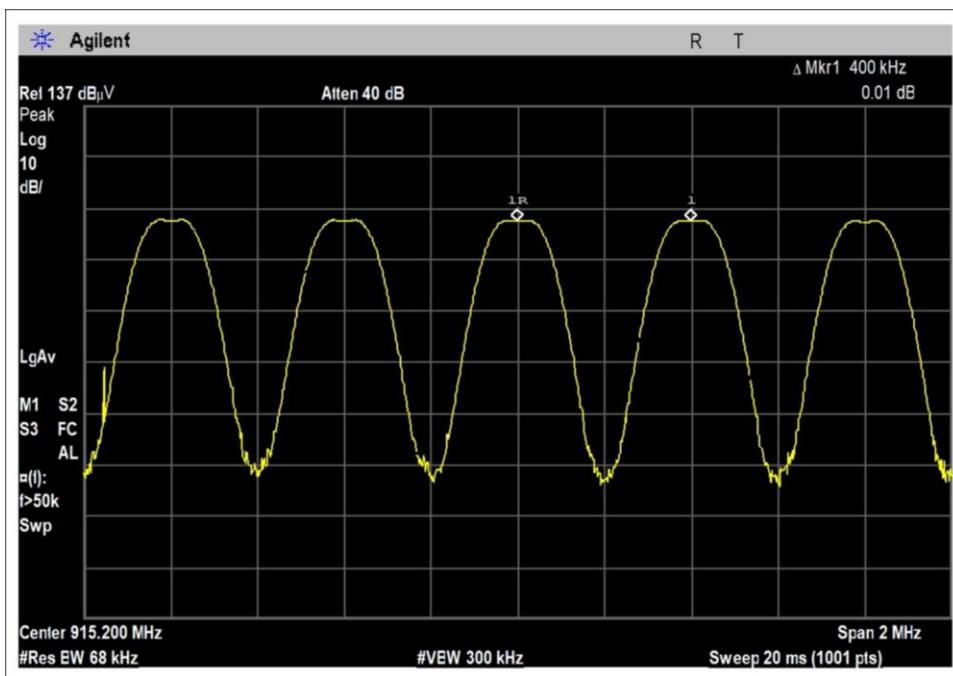
15.247(a)(1) Carrier Separation

Test Data Summary

Limit applied: 20dB bandwidth of the hopping channel.

Antenna Port	Operational Mode	Measured (kHz)	Limit (kHz)	Results
1	Hopping Mode	400	>338.482	Pass

Plot(s)

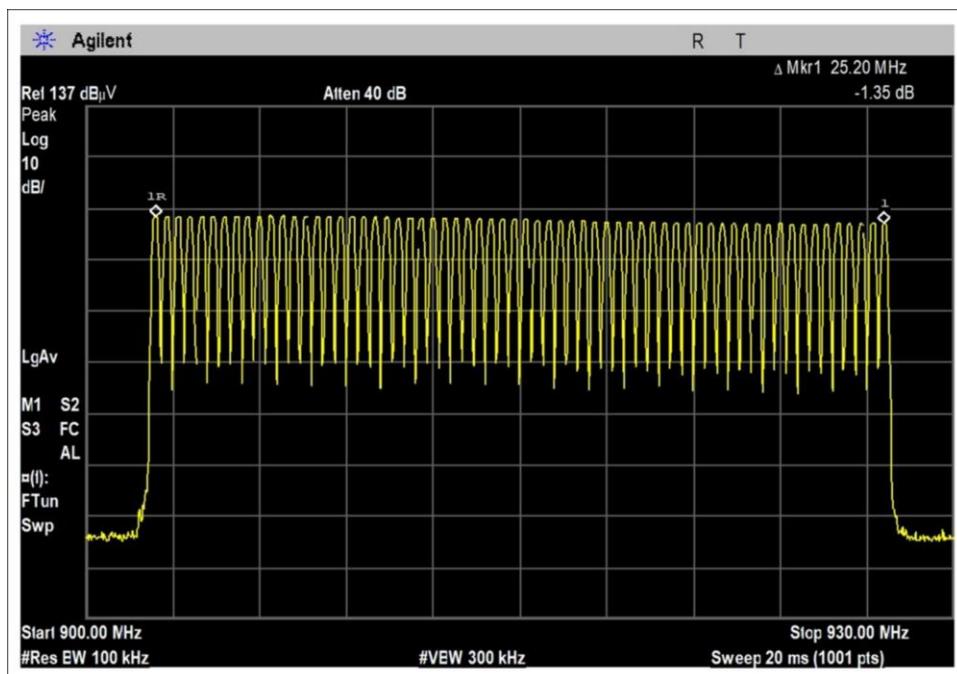


15.247(a)(1)(i) Number of Hopping Channels

Test Data Summary				
Antenna Port	Operational Mode	Measured (Channels)	Limit (Channels)	Results
1	Hopping Mode	64	≥50	Pass

Note: Some modulations have 20 dB BW lower than 250kHz, so at least 50 channels must be used.

Plot(s)



15.247(a)(1)(i) Time of Occupancy

The manufacturer declares: Due to the required equipment and firmware to exercise the EUT's multiple pseudo-random hopping sequences was not available and that the complexity of the different modulations and modes depend on the device to be in a fully operating network environment. Therefore, the manufacturer declares the following:

With the multiple modulations, modes and hop tables, the mode with the worst-case Time of Occupancy to demonstrate 400mS compliance is 399.8mS in 10 seconds, since this modulation is greater than 250kHz and less than 500 kHz OBW. Each session of multiple short transmissions takes place on one of 64 different channels in a pseudorandom sequence. The algorithm that determines the pseudo-random hop sequence ensures all 64 channels are used equally on the average.

Itron employs hopping patterns based on a pseudo-random sequence generated by an algorithm. The algorithm can have multiple components generated, that each has its own pseudo-random sequence.

The firmware ensures the channels are used in the prescribed pseudo random order, therefore, it maintains equal channel usage.

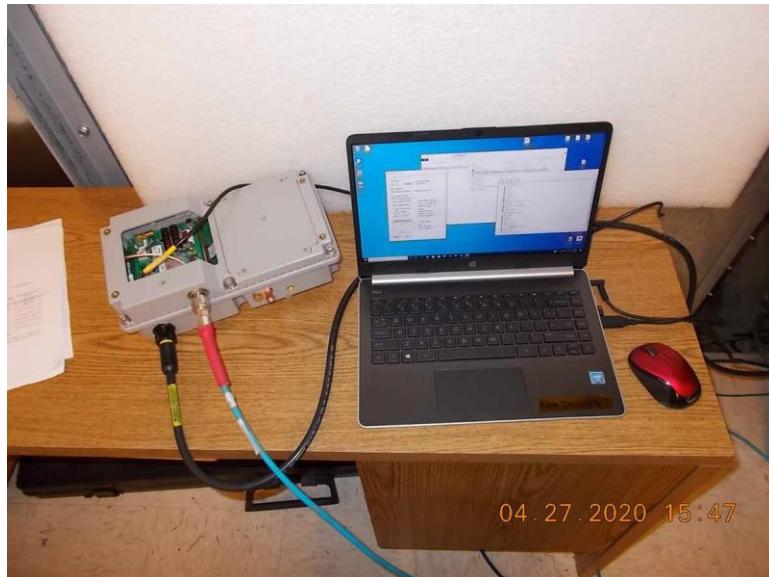
The system has single channel receiver bandwidths that match the transmitter's modulation bandwidth that is enabled.

With the transmitter and receiver in synchronization within the network, transmitters switch frequencies in synchronization with the receiver.

When the transmitter needs to send a continuous or long data stream, total time of the packet transmissions is monitored to comply with dwell time requirement of 400ms in the appropriate 10s or 20s window depending on the modulation/mode enabled.

This device does not employ any hopping avoidance techniques.

Test Setup Photo(s)



15.247(b)(2) Output Power

Test Data Summary - Voltage Variations

Frequency (MHz)	Modulation / Ant Port	V _{Minimum} (dBm)	V _{Nominal} (dBm)	V _{Maximum} (dBm)	Max Deviation from V _{Nominal} (dB)
902.4	OQPSK 6.25kbps	28.8	28.8	28.7	-0.1
915.2	OQPSK 6.25kbps	28.3	28.2	28.2	+0.1
927.6	OQPSK 6.25kbps	27.5	27.5	27.5	0.0

Test performed using operational mode with the highest output power, representing worst case.

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

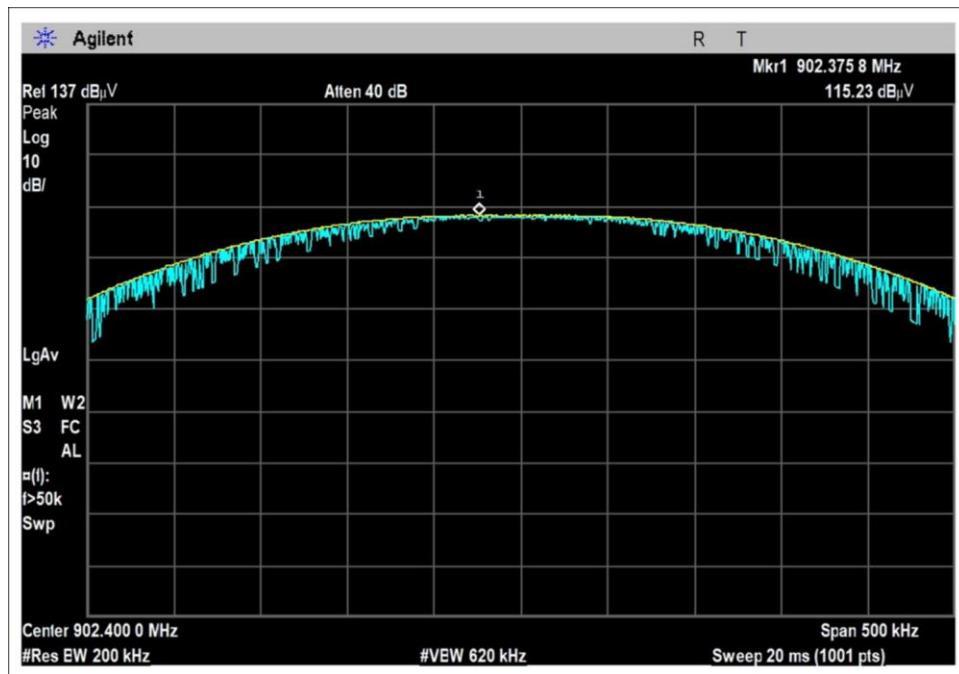
Parameter	Value
V _{Nominal} :	115
V _{Minimum} :	85
V _{Maximum} :	264

Test Data Summary - RF Conducted Measurement

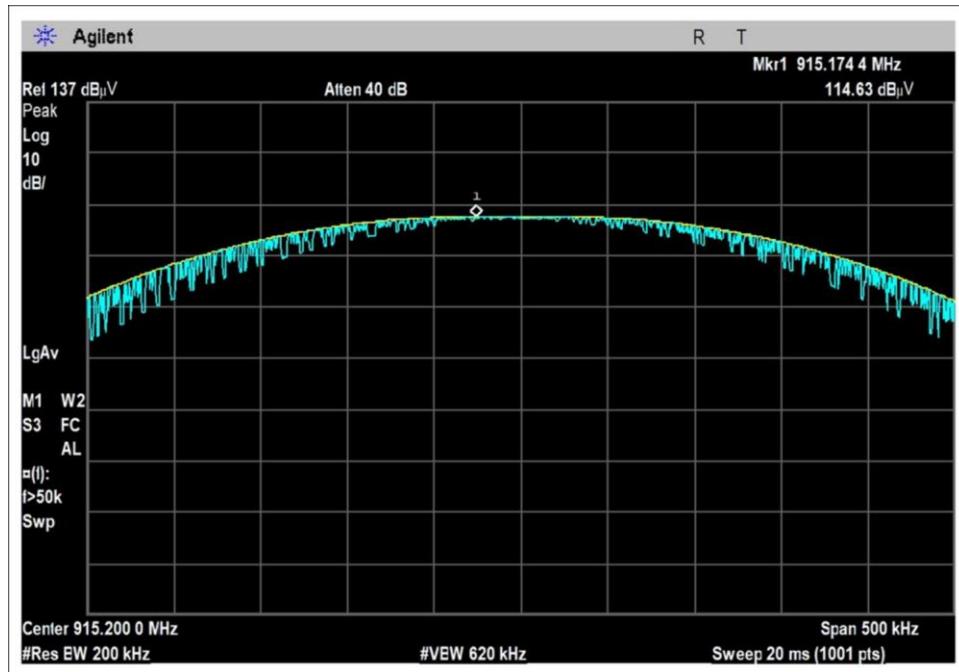
Limit = $\begin{cases} 30 \text{ dBm Conducted}/36 \text{ dBm EIRP} & | \geq 50 \text{ Channels} \\ 24 \text{ dBm Conducted}/30 \text{ dBm EIRP} & | < 50 \text{ Channels} \text{ (min 25)} \end{cases}$

Frequency (MHz)	Modulation	Ant. Type / Gain (dBi)	Measured (dBm)	Limit (dBm)	Results
902.4	FSK 50k	Omnidirectional, 2.6dBi max	28.7	≤30	Pass
915.2	FSK 50k	Omnidirectional, 2.6dBi max	28.1	≤30	Pass
927.6	FSK 50k	Omnidirectional, 2.6dBi max	27.5	≤30	Pass
902.4	FSK 150k	Omnidirectional, 2.6dBi max	28.7	≤30	Pass
915.2	FSK 150k	Omnidirectional, 2.6dBi max	28.1	≤30	Pass
927.6	FSK 150k	Omnidirectional, 2.6dBi max	27.5	≤30	Pass
902.4	OQPSK 6.25k	Omnidirectional, 2.6dBi max	28.8	≤30	Pass
915.2	OQPSK 6.25k	Omnidirectional, 2.6dBi max	28.2	≤30	Pass
927.6	OQPSK 6.25k	Omnidirectional, 2.6dBi max	27.5	≤30	Pass
902.4	OQPSK 12.5k	Omnidirectional, 2.6dBi max	28.8	≤30	Pass
915.2	OQPSK 12.5k	Omnidirectional, 2.6dBi max	28.2	≤30	Pass
927.6	OQPSK 12.5k	Omnidirectional, 2.6dBi max	27.5	≤30	Pass
902.4	OFDM 200k	Omnidirectional, 2.6dBi max	28.7	≤30	Pass
915.2	OFDM 200k	Omnidirectional, 2.6dBi max	28	≤30	Pass
927.6	OFDM 200k	Omnidirectional, 2.6dBi max	27.4	≤30	Pass
902.4	OFDM 600k	Omnidirectional, 2.6dBi max	28.7	≤30	Pass
915.2	OFDM 600k	Omnidirectional, 2.6dBi max	28.1	≤30	Pass
927.6	OFDM 600k	Omnidirectional, 2.6dBi max	27.5	≤30	Pass

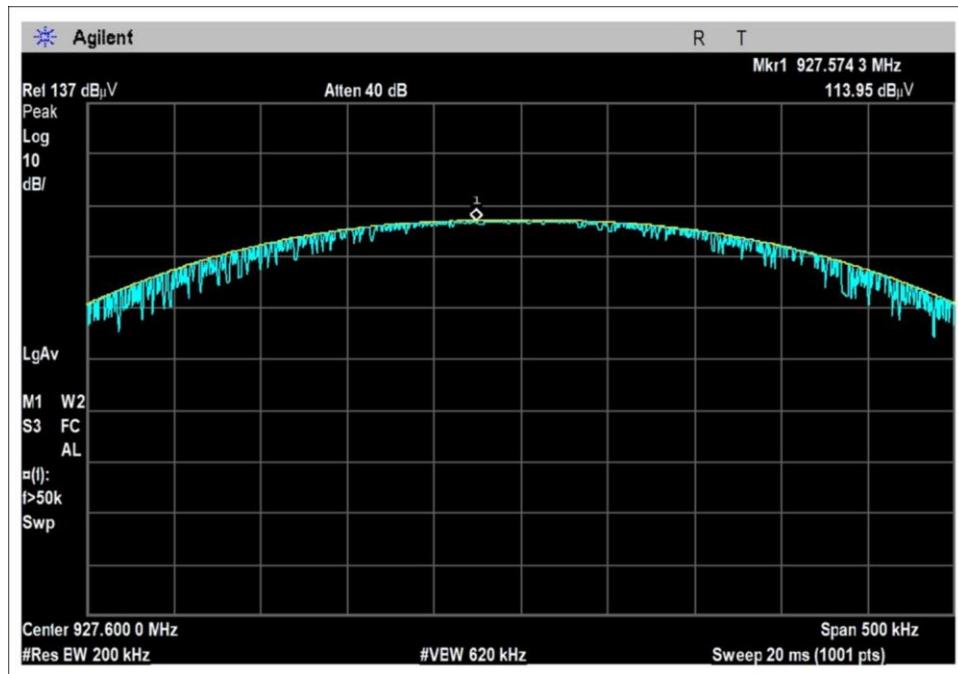
Plots



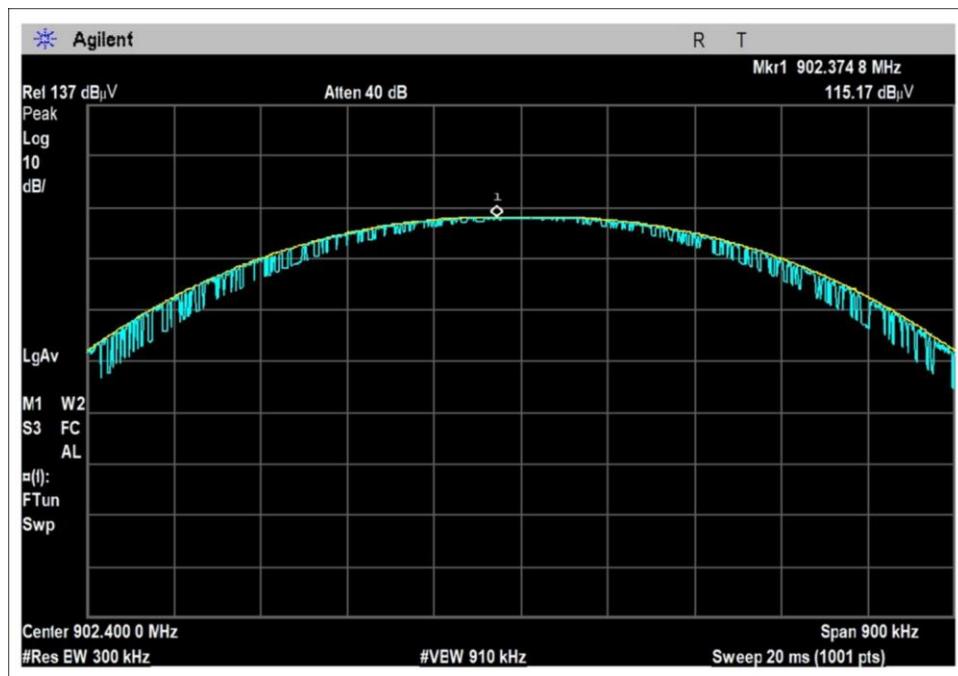
FSK 50kbps Low Channel



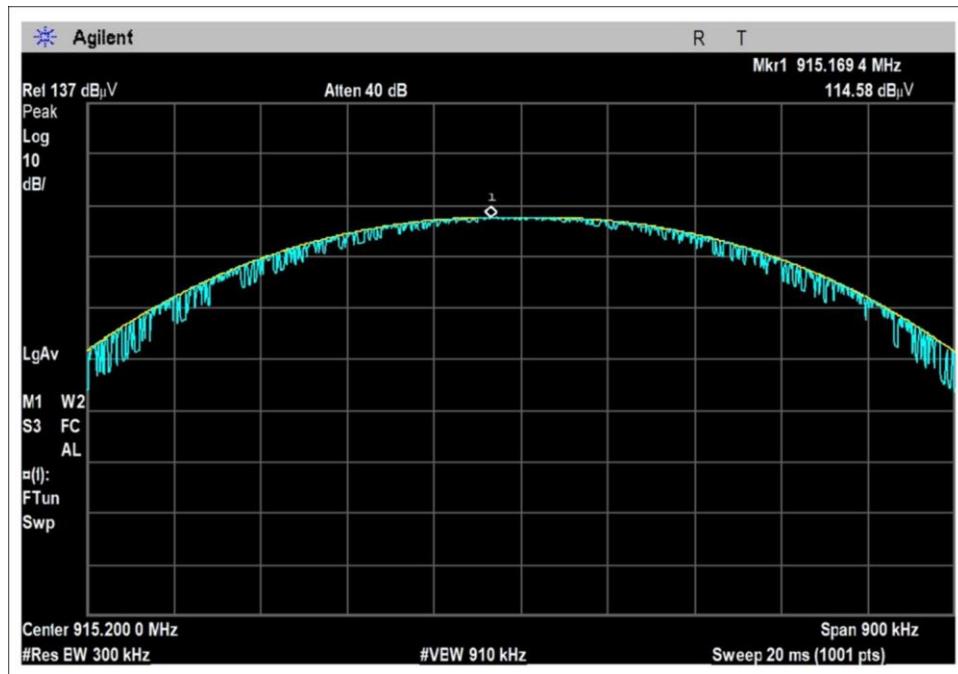
FSK 50kbps Middle Channel



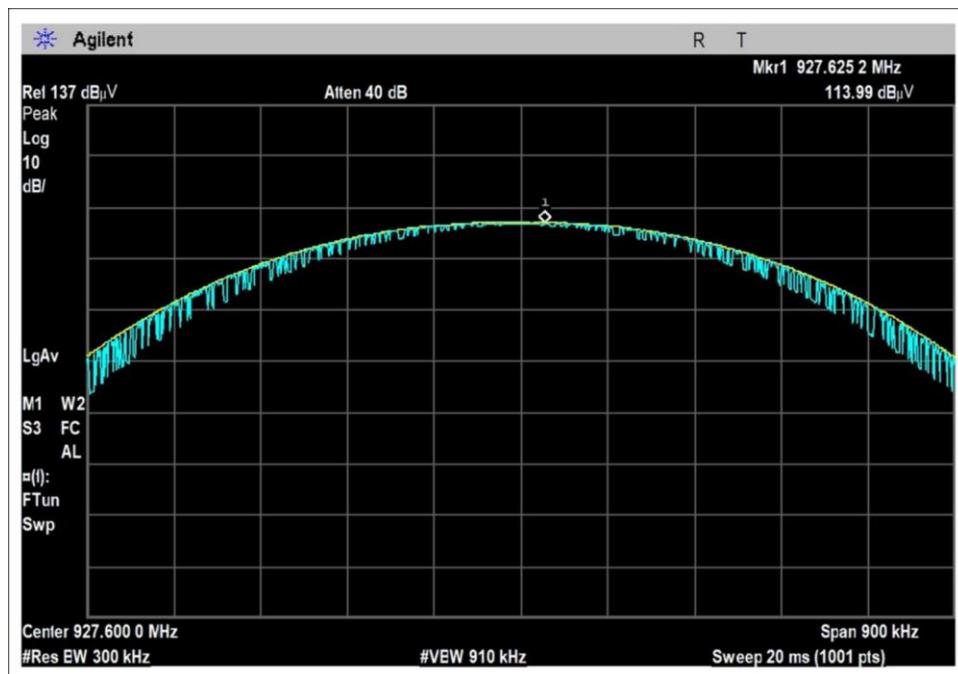
FSK 50kbps High Channel



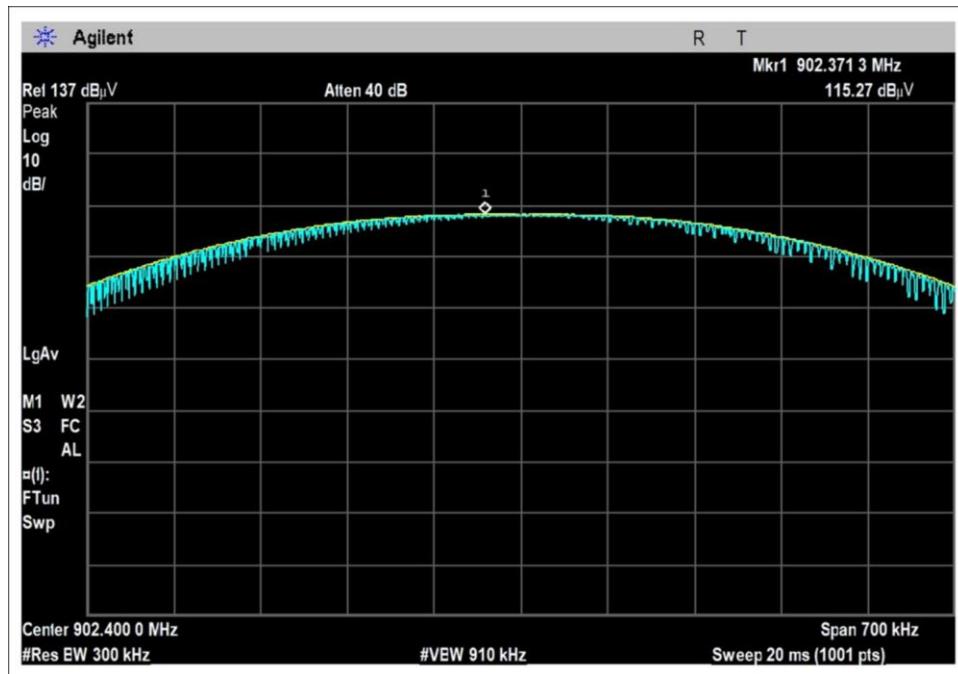
FSK 150kbps Low Channel



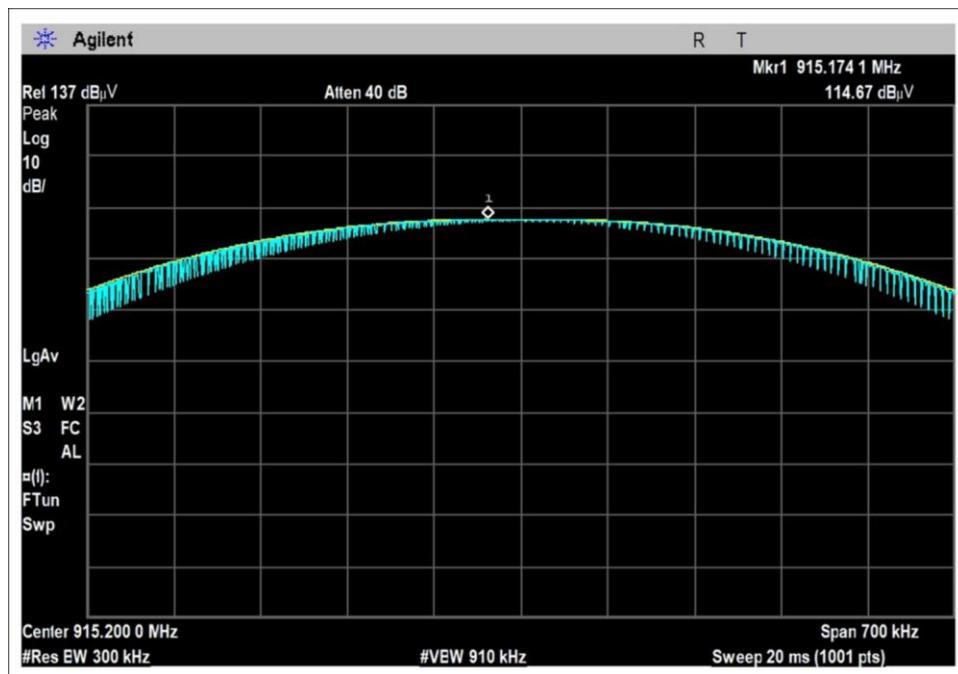
FSK 150kbps Middle Channel



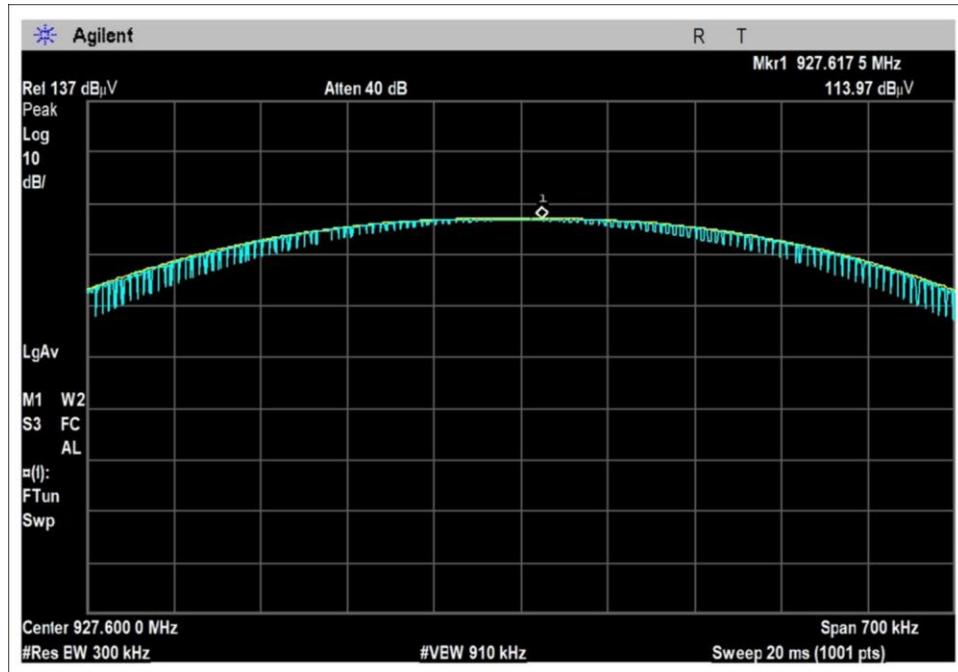
FSK 150kbps High Channel



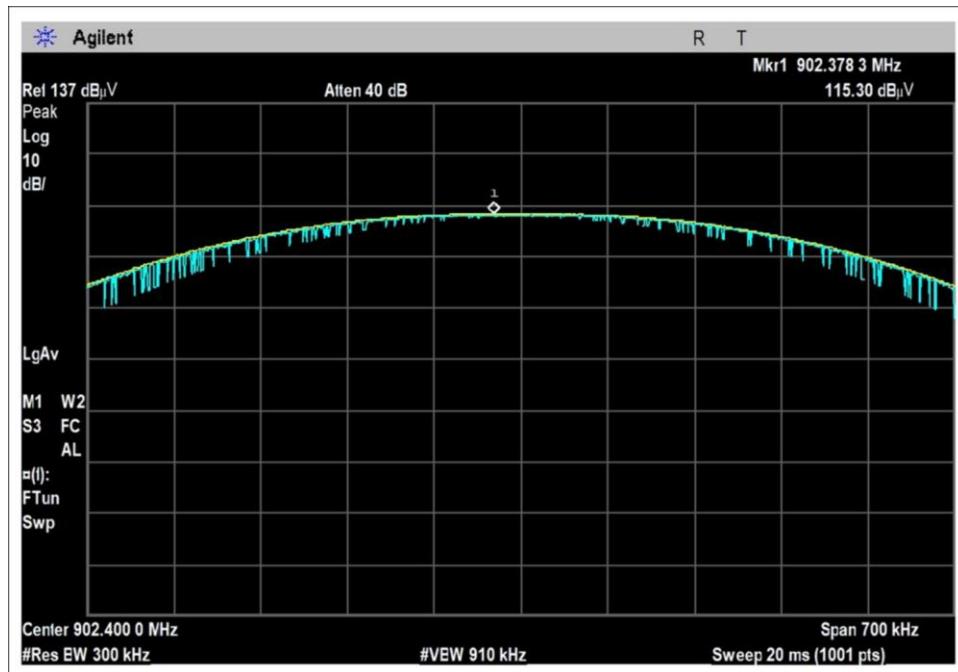
OQPSK 6.25kbps Low Channel



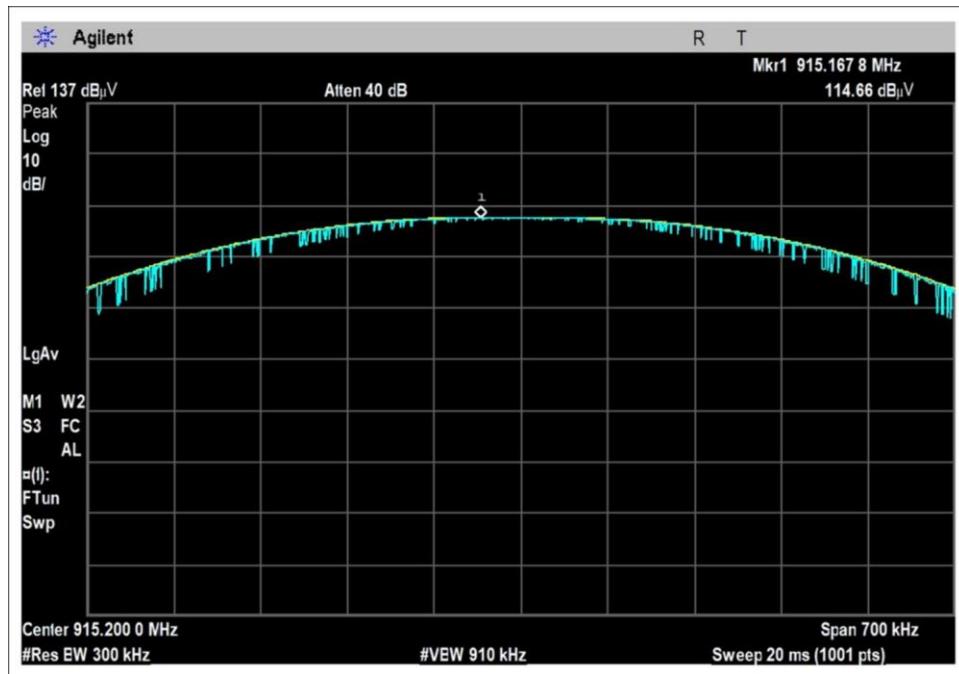
OQPSK 6.25kbps Middle Channel



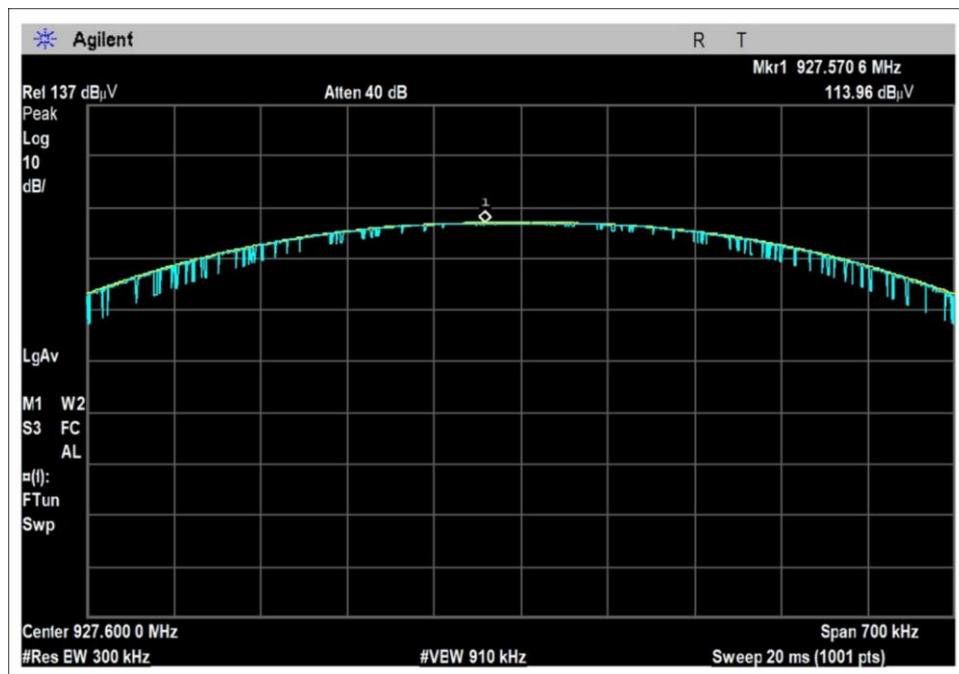
OQPSK 6.25kbps High Channel



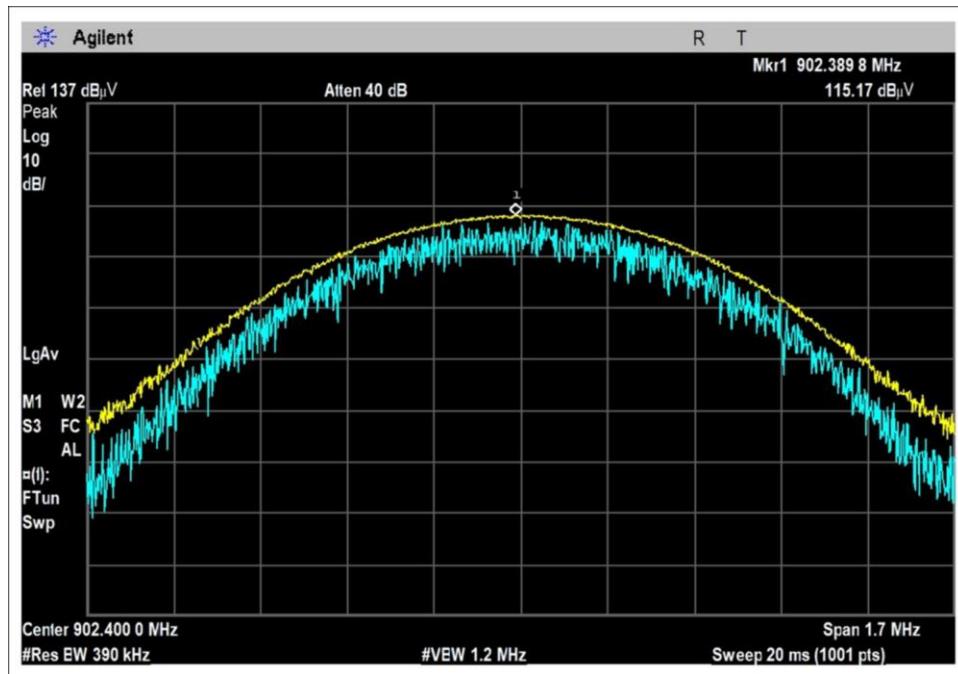
OQPSK 12.5kbps Low Channel



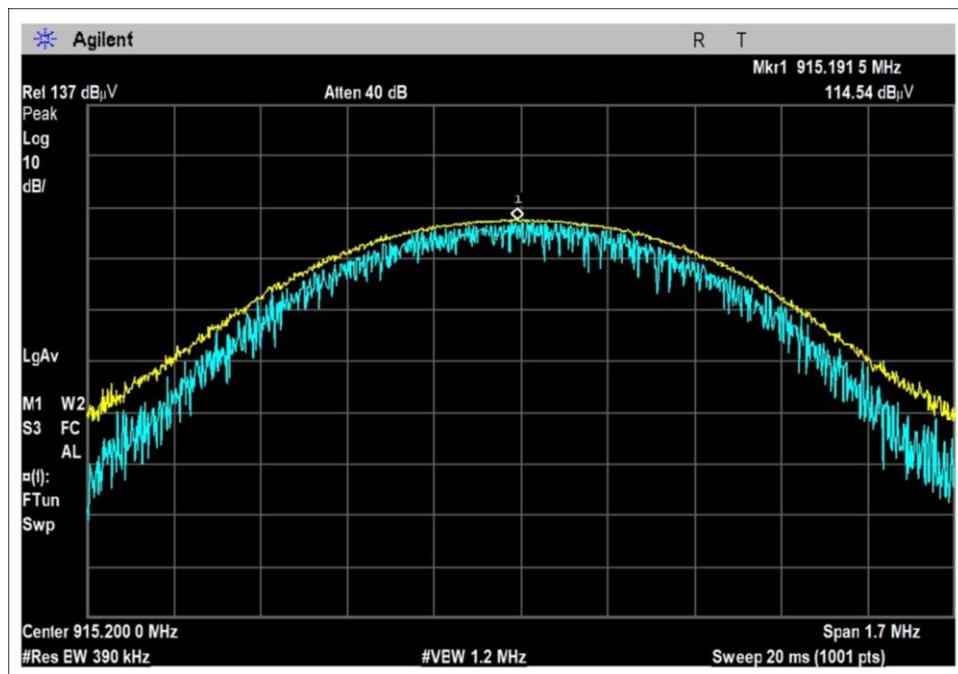
OQPSK 12.5kbps Middle Channel



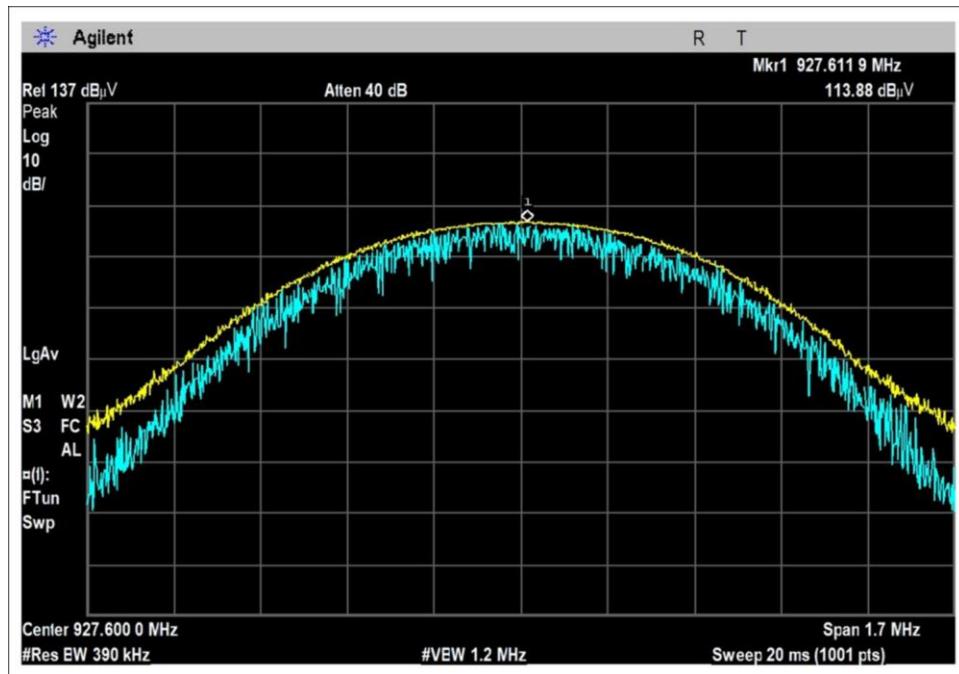
OQPSK 12.5kbps High Channel



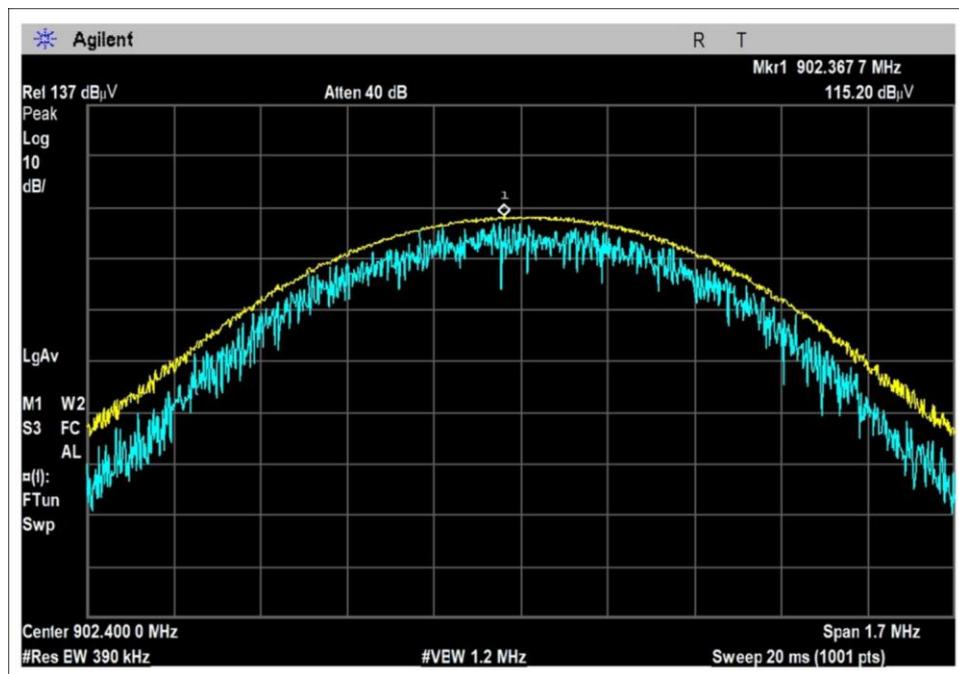
OFDM 200kbps Low Channel



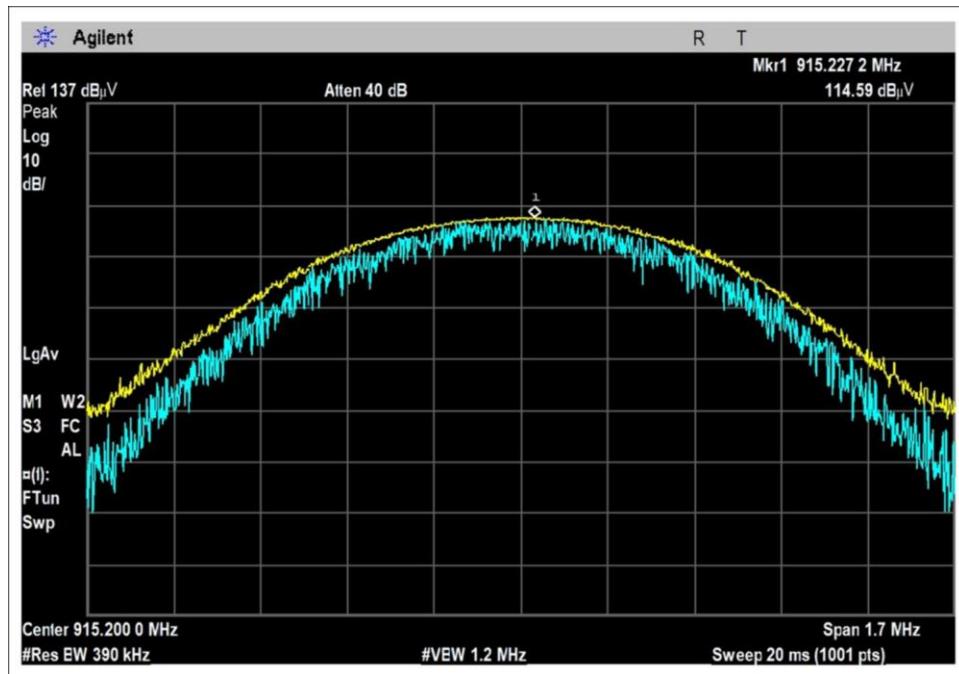
OFDM 200kbps Middle Channel



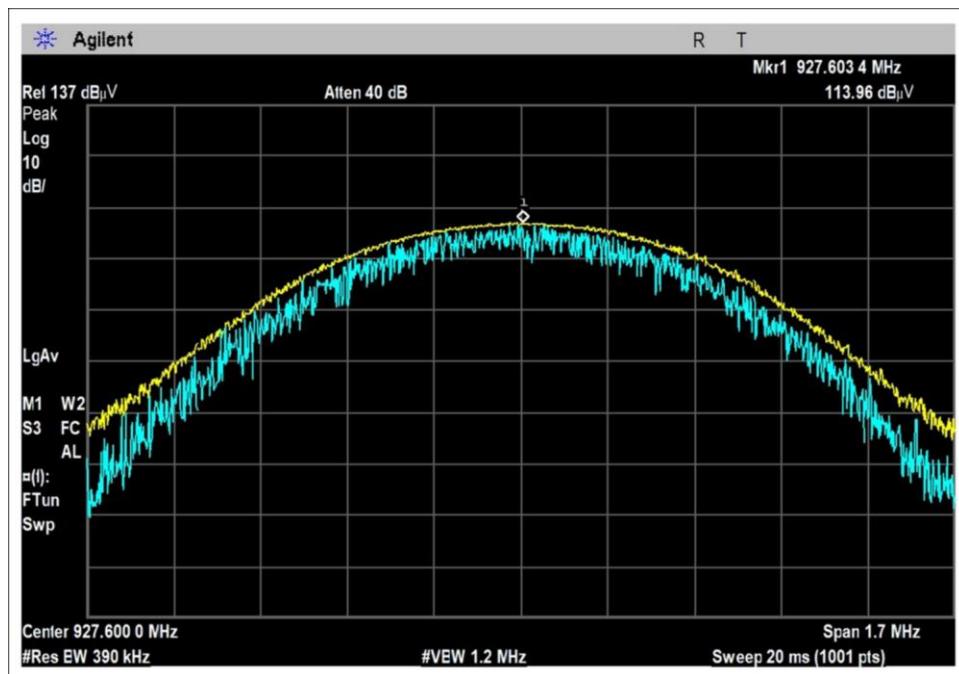
OFDM 200kbps High Channel



OFDM 600kbps Low Channel



OFDM 600kbps Middle Channel



OFDM 600kbps High Channel

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 22116 23rd Drive SE • Bothell, WA 98201 • 435-402-1717
 Customer: **Itron, Inc.**
 Specification: **15.247(b) Power Output (902-928 MHz FHSS >50 Channels)**
 Work Order #: **103786** Date: 4/28/2020
 Test Type: **Conducted Emissions** Time: 14:55:38
 Tested By: Michael Atkinson Sequence#: 2
 Software: EMITest 5.03.12 115VAC 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 2			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

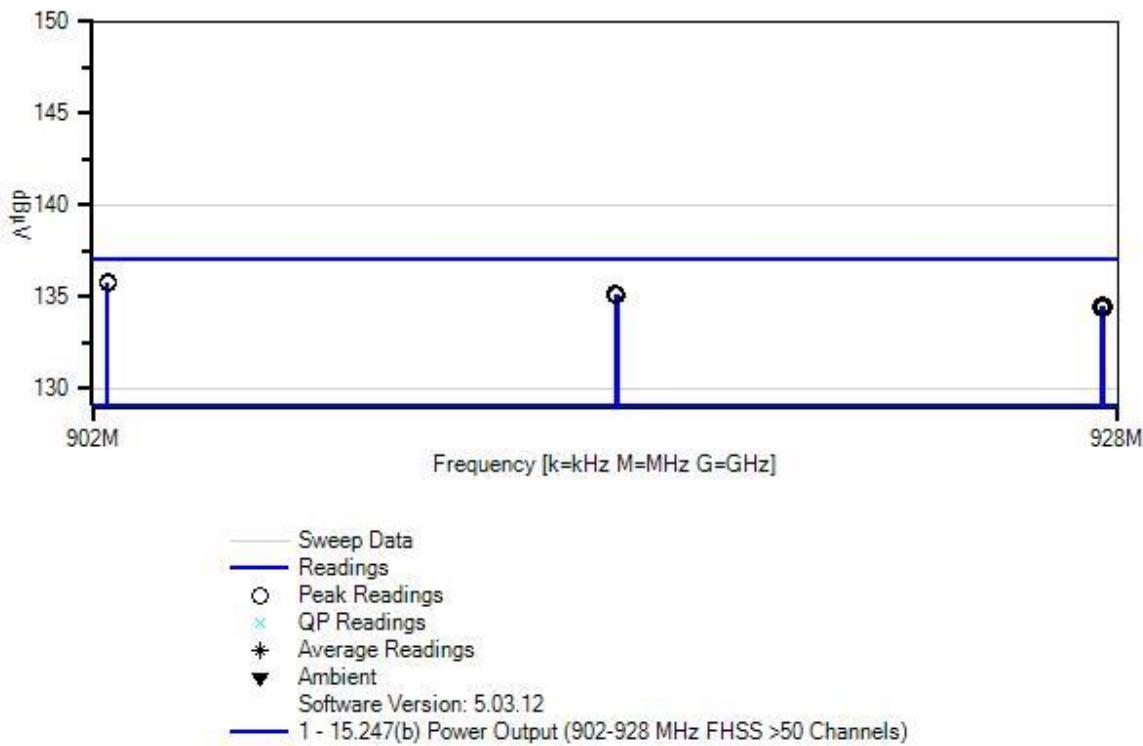
The equipment under test (EUT) is placed on the tabletop. The output of the EUT is connected to the spectrum analyzer using a coaxial cable and attenuator. The EUT is transmitting at its rated output power.

Test Location: Bothell Lab C3

Temperature (°C): 22

Relative Humidity (%): 35

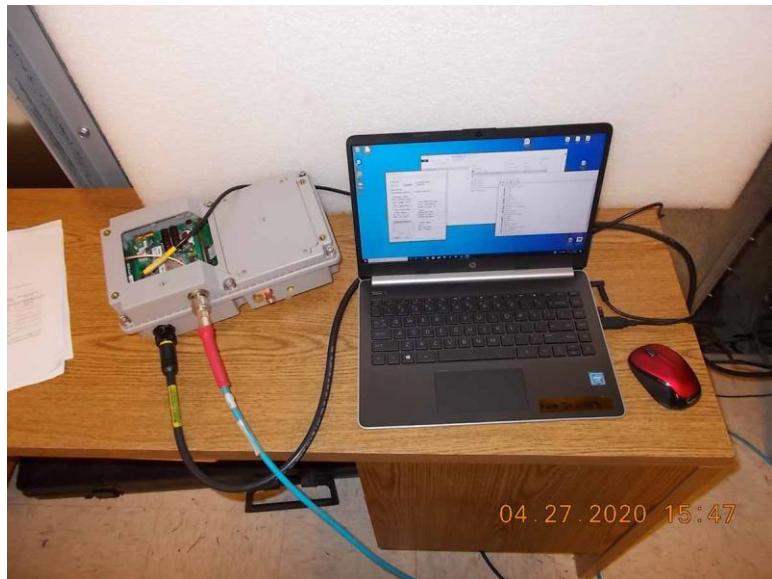
Test Method: ANSI C63.10 (2013)

Itron, Inc. WO#: 103786 Sequence#: 2 Date: 4/28/2020
 15.247(b) Power Output (902-928 MHz FHSS >50 Channels) Test Lead: 115VAC 60Hz RF Port

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02872	Spectrum Analyzer	E4440A	11/18/2019	11/18/2021
T2	ANP05748	Attenuator	PE7004-20	3/4/2020	3/4/2022
T3	ANP05546	Cable	Heliax	8/24/2018	8/24/2020

Measurement Data:			Reading listed by margin.				Test Lead: RF Port				
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	902.378M	115.3	+0.0	+20.0	+0.5		+0.0	135.8	137.0	-1.2	RF Po 12.5k OQPSK
2	902.371M	115.3	+0.0	+20.0	+0.5		+0.0	135.8	137.0	-1.2	RF Po 6.25k OQPSK
3	902.376M	115.2	+0.0	+20.0	+0.5		+0.0	135.7	137.0	-1.3	RF Po 50k FSK
4	902.368M	115.2	+0.0	+20.0	+0.5		+0.0	135.7	137.0	-1.3	RF Po 600M OFDM
5	902.390M	115.2	+0.0	+20.0	+0.5		+0.0	135.7	137.0	-1.3	RF Po 200M OFDM
6	902.374M	115.2	+0.0	+20.0	+0.5		+0.0	135.7	137.0	-1.3	RF Po 150k FSK
7	915.174M	114.7	+0.0	+20.0	+0.5		+0.0	135.2	137.0	-1.8	RF Po 6.25k OQPSK
8	915.168M	114.7	+0.0	+20.0	+0.5		+0.0	135.2	137.0	-1.8	RF Po 12.5k OQPSK
9	915.174M	114.6	+0.0	+20.0	+0.5		+0.0	135.1	137.0	-1.9	RF Po 50k FSK
10	915.227M	114.6	+0.0	+20.0	+0.5		+0.0	135.1	137.0	-1.9	RF Po 600M OFDM
11	915.169M	114.6	+0.0	+20.0	+0.5		+0.0	135.1	137.0	-1.9	RF Po 150k FSK
12	915.192M	114.5	+0.0	+20.0	+0.5		+0.0	135.0	137.0	-2.0	RF Po 200M OFDM
13	927.574M	114.0	+0.0	+20.0	+0.5		+0.0	134.5	137.0	-2.5	RF Po 50k FSK
14	927.625M	114.0	+0.0	+20.0	+0.5		+0.0	134.5	137.0	-2.5	RF Po 150k FSK
15	927.618M	114.0	+0.0	+20.0	+0.5		+0.0	134.5	137.0	-2.5	RF Po 6.25k OQPSK
16	927.571M	114.0	+0.0	+20.0	+0.5		+0.0	134.5	137.0	-2.5	RF Po 12.5k OQPSK
17	927.603M	114.0	+0.0	+20.0	+0.5		+0.0	134.5	137.0	-2.5	RF Po 600M OFDM
18	927.612M	113.9	+0.0	+20.0	+0.5		+0.0	134.4	137.0	-2.6	RF Po 200M OFDM

Test Setup Photo(s)



15.247(d) RF Conducted Emissions & Band Edge

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 22116 23rd Drive SE • Bothell, WA 98201 • 435-402-1717
 Customer: **Itron, Inc.**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **103786** Date: **5/15/2020**
 Test Type: **Conducted Emissions** Time: **11:05:36**
 Tested By: Michael Atkinson Sequence#: **6**
 Software: EMITest 5.03.12 **115VAC 60Hz**

Equipment Tested:

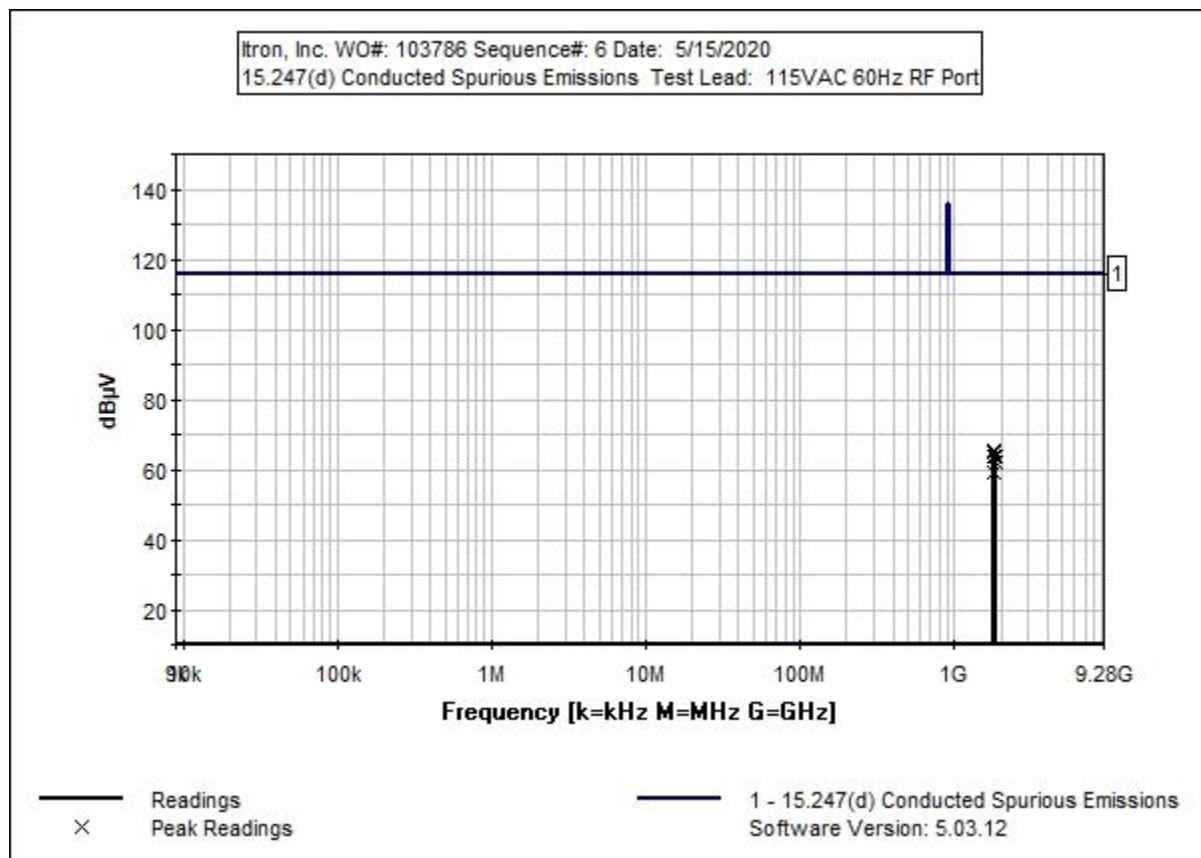
Device	Manufacturer	Model #	S/N
Configuration 2			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 2			

Test Conditions / Notes:

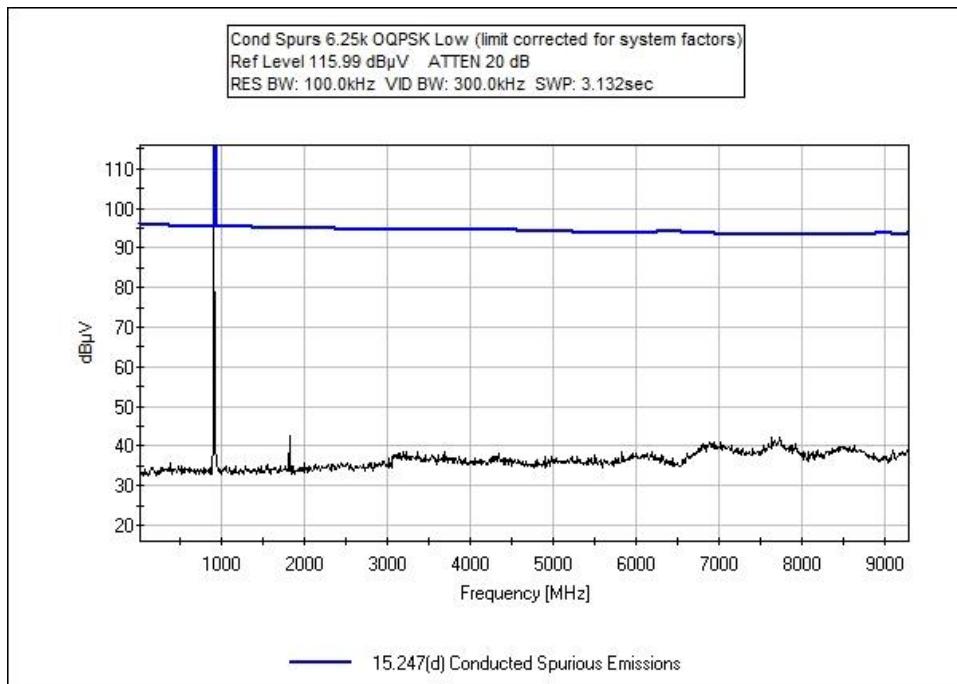
Frequency: 9kHz-9.28GHz
Low, Middle, and High channels investigated, as well as hopping mode, worst case reported.

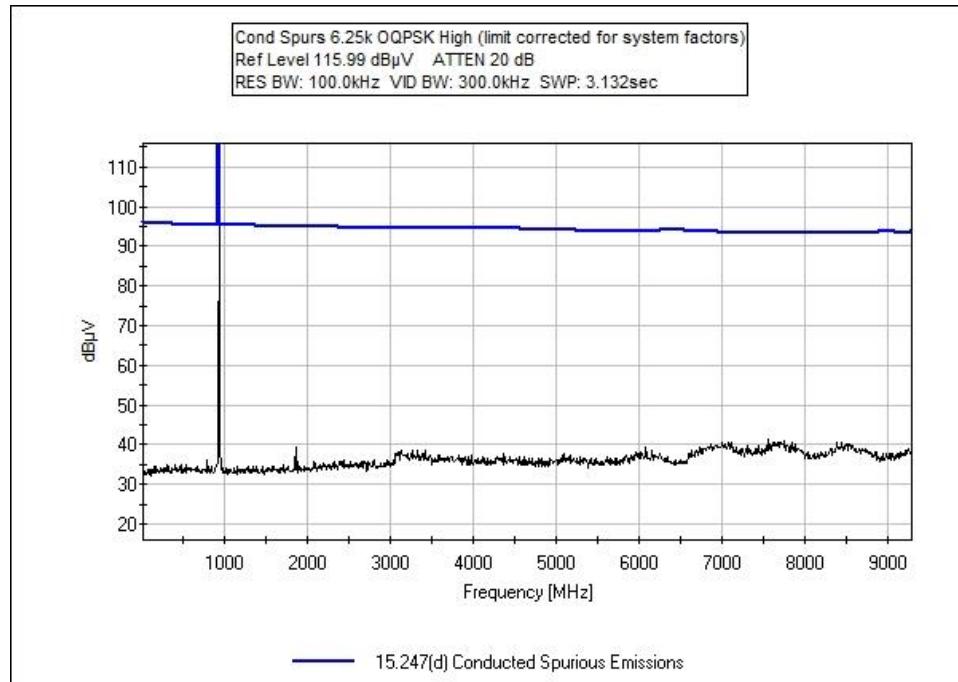
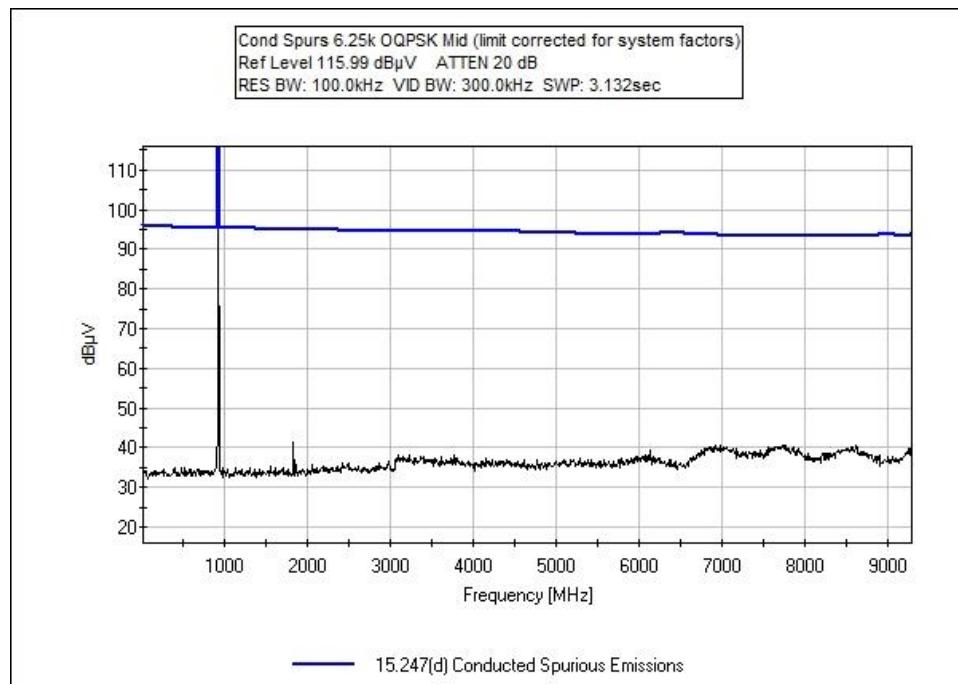

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05748	Attenuator	PE7004-20	3/4/2020	3/4/2022
T2	ANP05546	Cable	Heliax	8/24/2018	8/24/2020
T3	AN02673	Spectrum Analyzer	E4446A	2/22/2019	2/22/2021

Measurement Data: Reading listed by margin.				Test Lead: RF Port							
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	1804.750M	44.4	+20.0	+0.9	+0.0		+0.0	65.3	116.0	-50.7	RF Po 6.25k OQPSK
2	1804.850M	43.8	+20.0	+0.9	+0.0		+0.0	64.7	116.0	-51.3	RF Po 12.5k OQPSK
3	1804.750M	43.7	+20.0	+0.9	+0.0		+0.0	64.6	116.0	-51.4	RF Po 50k FSK
4	1804.770M	43.0	+20.0	+0.9	+0.0		+0.0	63.9	116.0	-52.1	RF Po 150k FSK
5	1830.350M	42.8	+20.0	+0.9	+0.0		+0.0	63.7	116.0	-52.3	RF Po 6.25k OQPSK
6	1855.250M	41.4	+20.0	+0.9	+0.0		+0.0	62.3	116.0	-53.7	RF Po 6.25k OQPSK
7	1804.840M	38.5	+20.0	+0.9	+0.0		+0.0	59.4	116.0	-56.6	RF Po 600k OFDM
8	1804.780M	38.4	+20.0	+0.9	+0.0		+0.0	59.3	116.0	-56.7	RF Po 200k OFDM

Plot(s)





Band Edge

Band Edge Summary

Limit applied: Max Power/100kHz - 20dB.

Operating Mode: Single Channel (Low and High)

Operating Mode: Hopping

Frequency (MHz)	Modulation	Measured (dBm)	Limit (dBm)	Results
902	FSK 50k	-26.9	<9	Pass
928	FSK 50k	-29.8	<9	Pass
902	Hopping FSK 50k	-26.5	<9	Pass
928	Hopping FSK 50k	-28	<9	Pass
902	FSK 150k	-29.5	<9	Pass
928	FSK 150k	-26.9	<9	Pass
902	Hopping FSK 150k	-26.6	<9	Pass
928	Hopping FSK 150k	-29.7	<9	Pass
902	OQPSK 6.25k	-28.4	<9	Pass
928	OQPSK 6.25k	-28.1	<9	Pass
902	Hopping OQPSK 6.25k	-25.7	<9	Pass
928	Hopping OQPSK 6.25k	-27.6	<9	Pass
902	OQPSK 12.5k	-24.7	<9	Pass
928	OQPSK 12.5k	-28.8	<9	Pass
902	Hopping OQPSK 12.5k	-28.4	<9	Pass
928	Hopping OQPSK 12.5k	-29.8	<9	Pass
902	OFDM 200k	-6.6	<9	Pass
928	OFDM 200k	-7.8	<9	Pass
902	Hopping OFDM 200k	-5.5	<9	Pass
928	Hopping OFDM 200k	-9.3	<9	Pass
902	OFDM 600k	-4.6	<9	Pass
928	OFDM 600k	-5.7	<9	Pass
902	Hopping OFDM 600k	-3.7	<9	Pass
928	Hopping OFDM 600k	-7.9	<9	Pass

Band Edge Plots

