



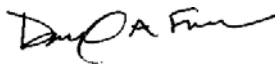
Engineering Solutions & Electromagnetic Compatibility Services

**FCC & IC Certification Report for
FCC Part 15.247 & Industry Canada RSS-247**

Test Lab: Rhein Tech Laboratories, Inc. Tel: 703-689-0368 360 Herndon Parkway Fax: 703-689-2056 Suite 1400 www.rheintech.com Herndon, VA 20170 E-Mail: atcbinfo@rheintech.com		Applicant: Harris Corporation Tel: 434-455-9290 221 Jefferson Ridge Parkway Lynchburg, VA 24501	
FCC ID IC	OWDTR-0141-E 3636B-0141	Test Report Date:	October 24, 2016
Platform	N/A	RTL Work Order #	2015075
Model	XG-25P	RTL Quote #	QRTL15-025A
American National Standard Institute	ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices		
FCC Classification	DSS – Part 15 Spread Spectrum Transmitter		
FCC Rule Part(s)/Guidance	FCC Rules Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz Direct Sequence System (10/01/2015)		
Industry Canada	RSS-247 Issue 1 Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and Licence-Exempt Local Area Network (LE-LAN) Devices		
Frequency Range (MHz)	Output Power (W)*	Frequency Tolerance	Emission Designator
2402 – 2480	0.0011	N/A	1M43FXD

* power is conducted

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described in this test report. No modifications were made to the equipment during testing in order to achieve compliance with these standards. Furthermore, there was no deviation from, additions to, or exclusions from, the applicable parts of FCC Part 2, FCC Part 15, Industry Canada RSS-247, RSS-Gen, and ANSI C63.10.

Signature: 

Date: October 24, 2016

Typed/Printed Name: Desmond A. Fraser

Position: President

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This/these test(s) is/are accredited under Rhein Tech Laboratories, Inc. ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1445.

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1 General Information

1.1 Scope

This is an original FCC and Industry Canada certification application report.

Applicable Standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz
- RSS-247 Issue 1: Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and License Exempt Local Area Network (LE-LAN) Devices

1.2 Description of EUT

Equipment Under Test	XG-25P Portable Radio
Power Supply	Internal radio battery operated
Modulation Type	FHSS
Frequency Range	2402 – 2480 MHz
Antenna Connector Type	N/A
Antenna Type	Internal chip

1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located at 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report and approved by the Federal Communications Commission to perform AC line conducted and radiated emissions testing.

1.4 Related Submittal(s)/Grant(s)

This is an original application. Harris will be seeking IC family certification for two model numbers, DPXG-PFU1B-e1 (System) and DPXG-PBU1B-e1 (Scan).

1.5 Modifications

None.

2 Test Information

2.1 Description of Test Modes

In accordance with FCC 15.31(m), and because the EUT utilizes an operating band greater than 10 MHz, the following frequencies were tested:

Table 2-1: Channels Tested

Channel	Frequency
Low	2402
Middle	2441
High	2480

2.2 Exercising the EUT

The EUT was supplied with test software to select various transmit/receive modes (for example, high, mid, and low channel, hopping on/off, etc.) for testing, and to continuously transmit during testing. The carrier was also checked to verify that information was being transmitted. There were no deviations from the test standard(s) and/or methods. The test results reported relate only to the item tested.

GFSK, 2-EDR and 3-EDR modes were investigated. Where pertinent, data is presented for the three modes; otherwise, worst-case data is presented. GFSK was found to be worst case for radiated measurements, data for it is presented.

2.3 Test Result Summary

Table 2-2: Test Result Summary – FCC Part 15, Subpart C (Section 15.247) / IC RSS-247

Test	FCC Reference	IC Reference	Result
AC Power Conducted Emissions	FCC 15.207	RSS-Gen 8.8	N/A
Radiated Emissions	FCC 15.209	RSS-247 5.5; RSS-Gen 6.13/7.1	Pass
Maximum Peak Power Output	FCC 15.247(b)(1)	RSS-247 5.4(2), RSS-Gen 6.12	Pass
Antenna Conducted Spurious Emissions	FCC 15.247(d)	RSS-247 5.5, RSS-Gen 6.13	Pass
Carrier Frequency Separation	FCC 15.247(a)(1)	RSS-247 5.1(2)	Pass
Band Edge Measurement	FCC 15.247(d)	RSS-247 5.5	Pass
20 dB Bandwidth	FCC 15.247(a)(1)(ii)	RSS-247 5.1(1)	Pass
Hopping Characteristics	FCC 15.247(a)(1)(iii)	IC RSS-247 5.1(4)	Pass
Average Time of Occupancy	FCC 15.247(a)(1)(iii)	IC RSS-247 5.1(4)	Pass

2.4 Tested System Details

The test sample was received on February 11, 2016. Listed below are the identifiers and descriptions of all equipment, cables, and internal devices used with the EUT for this test, as applicable.

The EUT includes a System model and a Scan model, the difference being that the System model has a DTMF keypad. The System model is considered to be representative of the radio family and to have the worst case emissions, and was therefore used for testing.

The device was programmed for multiple modes of operation and modulation types.

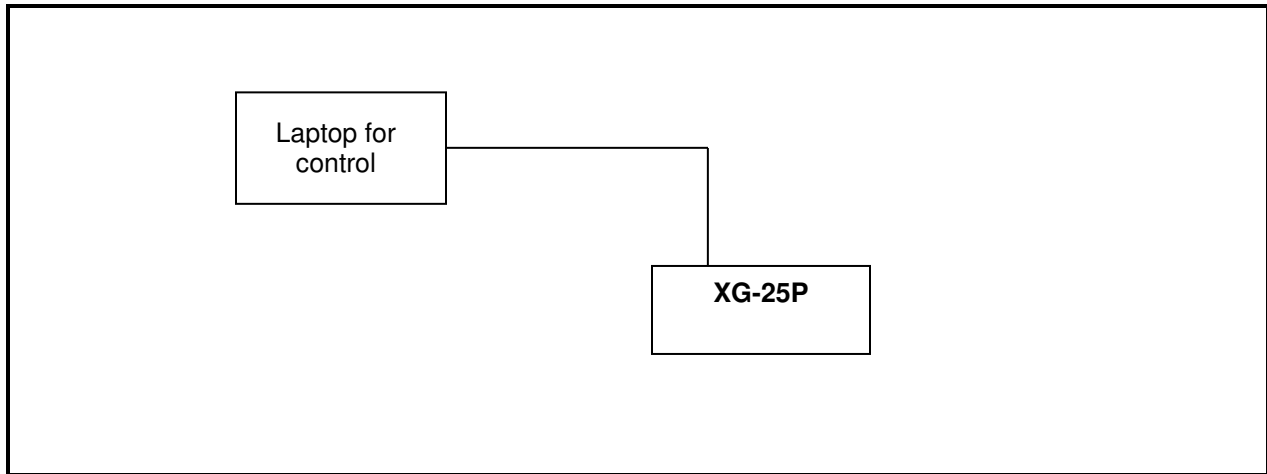
Table 2-3: Equipment Under Test (EUT)

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
XG-25P UHF Radio	Harris Corporation	DPXG-PFU1B-e1 (System)	14011-0030-01	OWDTR-0141-E	21045
XG-25P UHF Radio	Harris Corporation	DPXG-PBU1B-e1 (Scan)	14011-0030-02	OWDTR-0141-E	21046
Radio with Conducted Port for Bluetooth Testing	Harris Corporation	XG-25P	VHF TMS No. 15	OWDTR-0141-E	21976

Table 2-4: Accessory Test Equipment

Part	Manufacturer	Model	SN	FCC ID	RTL Bar Code
Battery Eliminator	Harris Corporation	14035-4300-01	N/A	N/A	21553

Figure 2-1: Configuration of Tested System



3 Peak Output Power – FCC 15.247(b)(1), RSS-247 5.4(2), RSS-Gen 6.12

3.1 Power Output Test Procedure

Procedure: C63.10-2013

3.2 Power Output Test Data

Table 3-1: Power Output Test Data

Frequency (MHz)	Peak Power (dBm)	Peak Power (mW)
2402	0.2	1.05
2441	-0.3	0.93
2480	-0.7	0.85

Table 3-2: Power Output Test Equipment

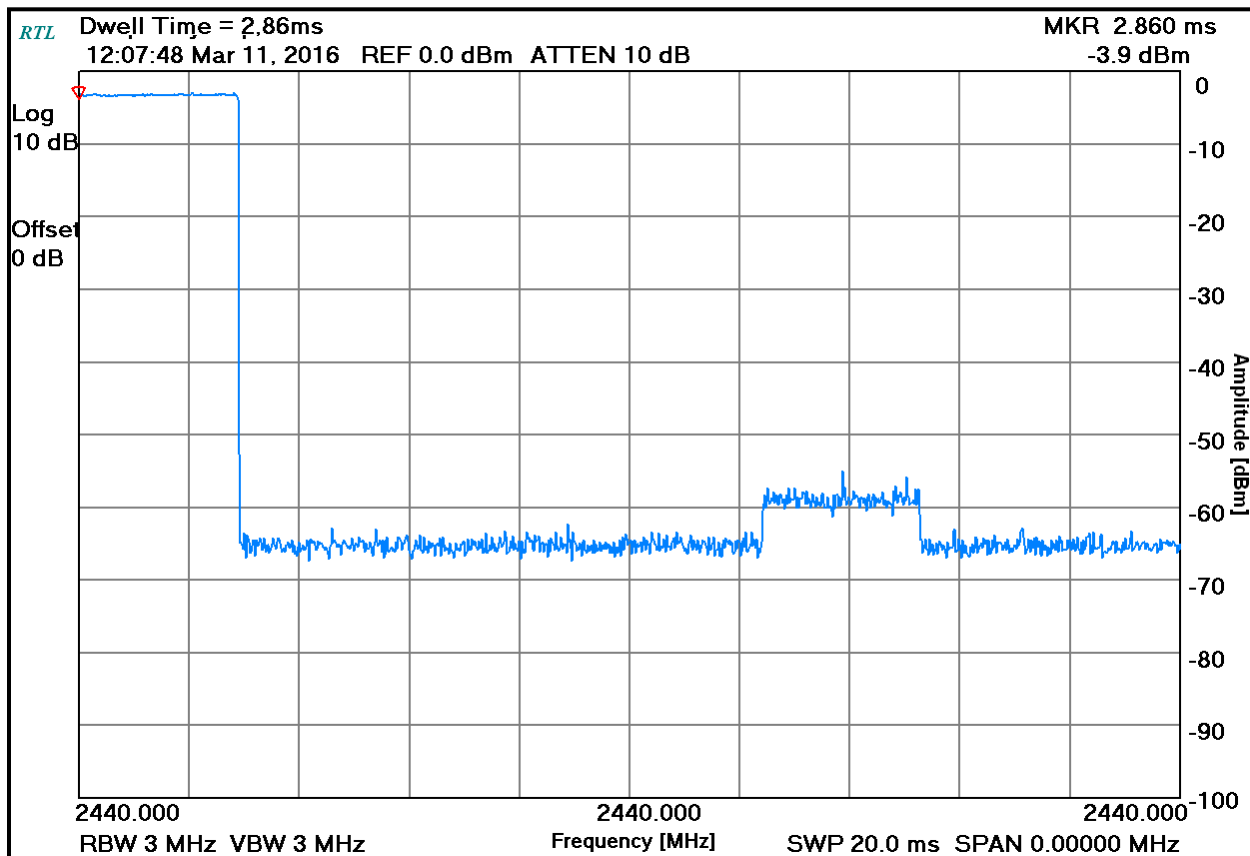
RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

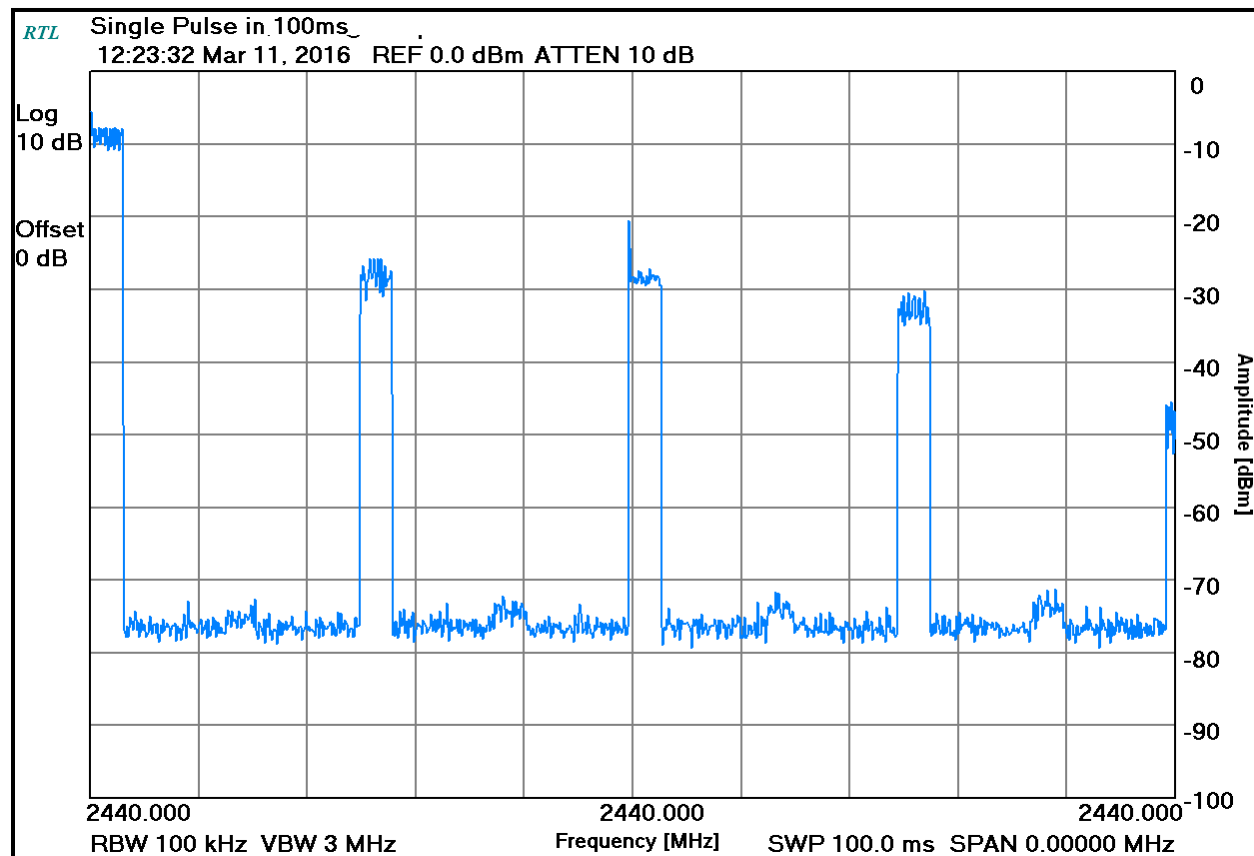
Daniel W. Baltzell		March 14, 2016
EMC Test Engineer	Signature	Date of Test

4 Duty Cycle Correction

Plot 4-1: Pulse Width – 2.86ms



Plot 4-2: Single Pulse per 100ms



Duty Cycle Calculation:

$$20 \log (2.86/100) = -30.9 \text{ dB correction}$$

Table 4-1: Duty Cycle Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 11, 2016 Date of Test
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5 Antenna Conducted Spurious Emissions – FCC 15.247(d), RSS-247 5.5

Procedure: C63.10-2013 6.7

No conducted spurious emissions were within 20 dB of the limit, therefore no data is reported.

Table 5-1: Antenna Conducted Spurious Emissions Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell		March 11, 2016
EMC Test Engineer	Signature	Date of Test

6 Band-Edge Compliance of RF Conducted Emissions – FCC 15.247(d), RSS-247 5.5

6.1 Band Edge Test Procedure

Procedure: C63.10-2013 6.10

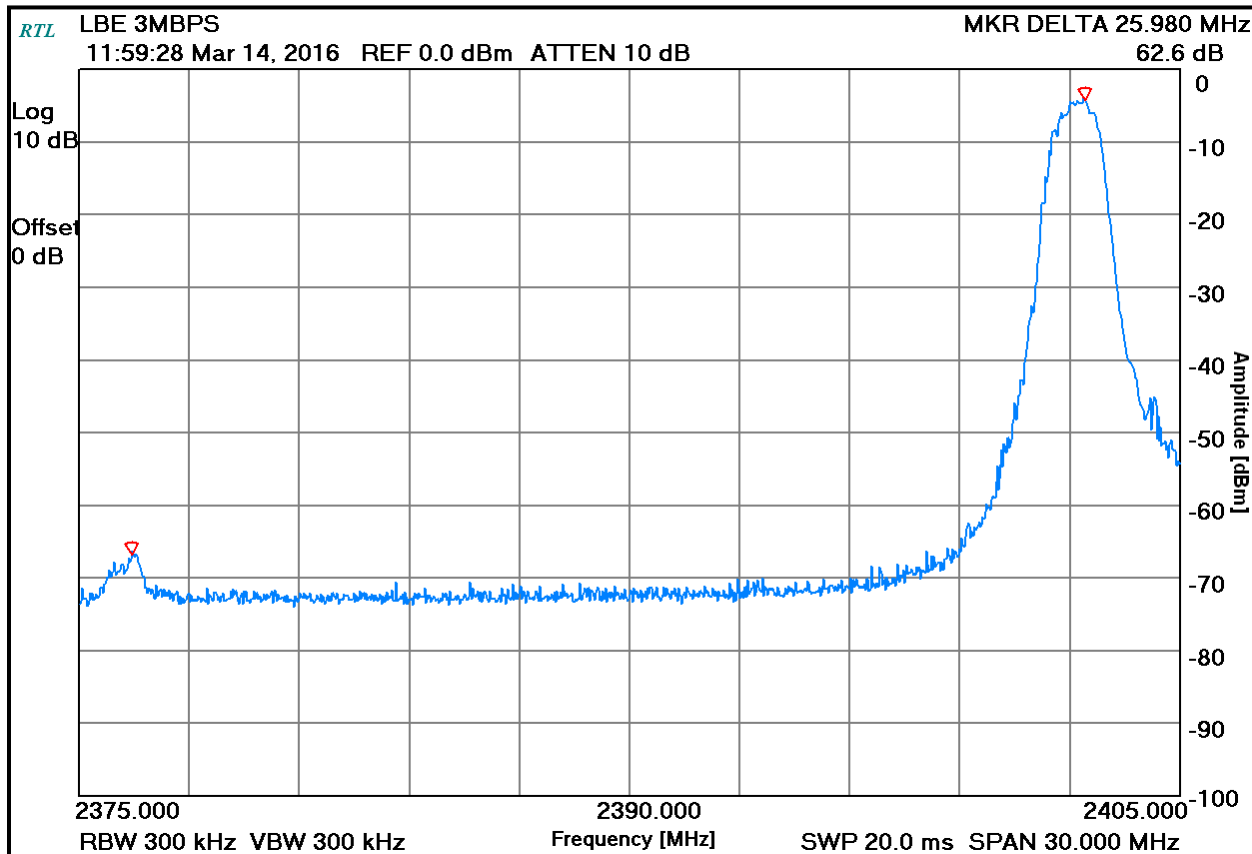
The EUT was connected to the spectrum analyzer through suitable attenuation. The span was set wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation. The spectrum analyzer was set to the following:

RBW > = 1 % of span
VBW > = RBW
Sweep = auto
Detector function = peak
Trace = max hold

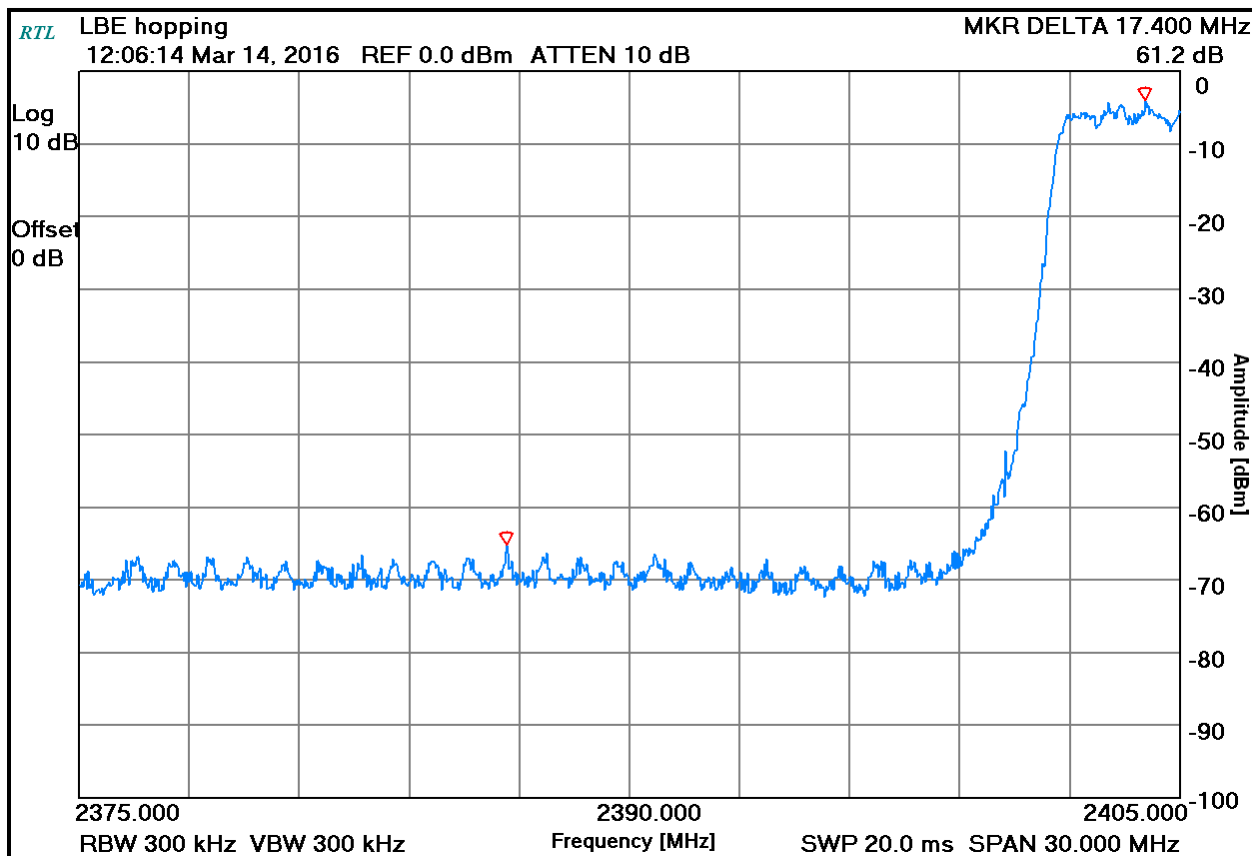
The trace was allowed to stabilize. The marker was set on the emission at the band edge. The marker-delta was used to show the delta between the maximum in-band emission and the emission at the band edge, and was compared to the 20 dBc requirement of 15.247(d) (when using peak emissions). This measurement was taken in both fixed frequency and hopping modes.

6.2 Test Results

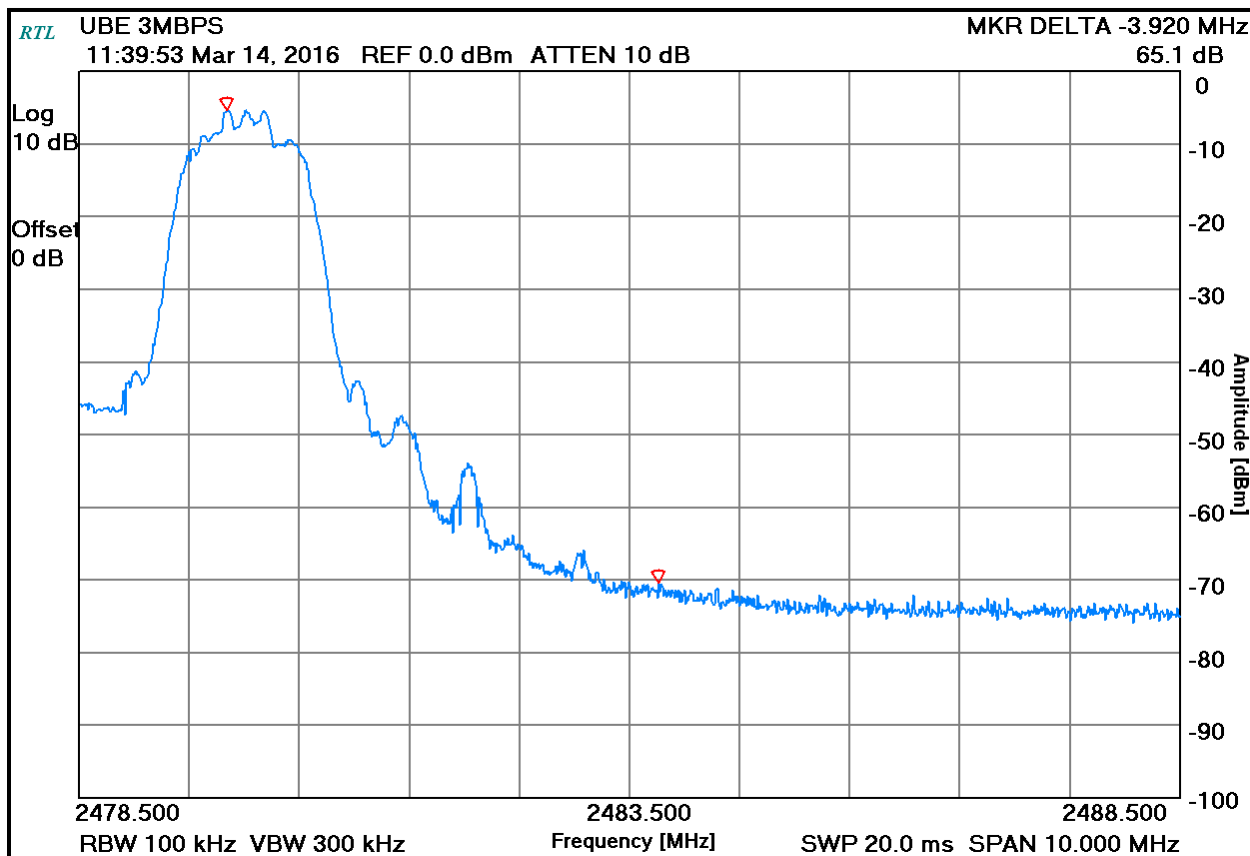
Plot 6-1: Lower Band Edge TX Frequency - 2402 MHz



Plot 6-2: Lower Band Edge TX Frequency - 2402 MHz (Hopping)



Plot 6-3: Upper Band Edge TX Frequency - 2480 MHz



Plot 6-4: Upper Band Edge TX Frequency - 2480 MHz (Hopping)

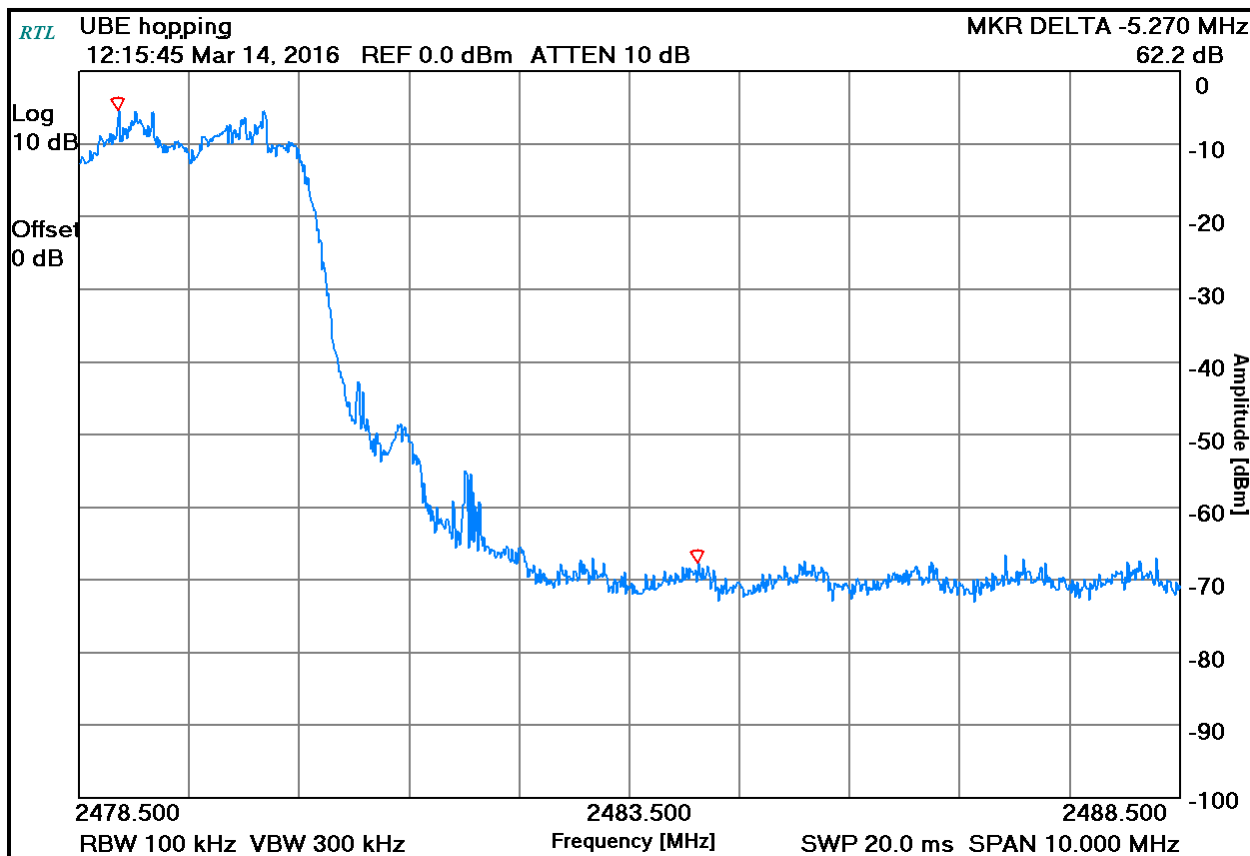


Table 6-1: Band-Edge Compliance of RF Conducted Emissions Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 14, 2016 Date of Test
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6.3 Radiated Band Edge Emissions

Table 6-2: Radiated Band Edge Emissions Test Data

Frequency (MHz)	Peak Spectrum Analyzer Level (1 MHz RBW/ 3 MHz VBW) (dBuV)	Average Analyzer Detector (1 MHz RBW/ 3 MHz VBW) (dBuV)	Site Correction Factor (dB/m) with Duty Cycle Correction -47.6 dB	Corrected Average Level (dBuV/m)	Delta Measurement from Plots (dB)	Average Limit (dBuV/m)	Margin (dB)
2402.0	99.6	99.6	-10.4	89.2	61.2	54.0	-26.0
2480.0	94.7	94.7	-10.0	84.7	62.2	54.0	-31.5

Table 6-3: Radiated Band Edge Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901592	Insulated Wire Inc.	KPS-1503-3600-KPR	SMK RF Cables 20'	NA	9/4/16
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16
900772	EMCO	3161-02	Horn Antenna (2 - 4 GHz)	9804-1044	4/09/18
900886	EMI Shop	WRT000-0003	Turntable OATS	N/A	Not Required
900932	Hewlett Packard	8449B OPT H02	Preamplifier (1 - 26.5 GHz)	3008A00505	9/10/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 14, 2016 Date of Test
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7 20 dB Bandwidth – FCC 15.247(a)(1), RSS-247 5.1(1)

7.1 20 dB Bandwidth Test Procedure

Procedure: C63.10-2013 6.9

7.2 20 dB Modulated Bandwidth Test Data

Table 7-1: 20 dB Modulated Bandwidth Test Data – GFSK (1 Mbps)

Frequency (MHz)	20 dB Bandwidth (MHz)
2402	1.13
2441	1.16
2480	1.16

Table 7-2: 20 dB Modulated Bandwidth Test Data – 2-EDR (2 Mbps)

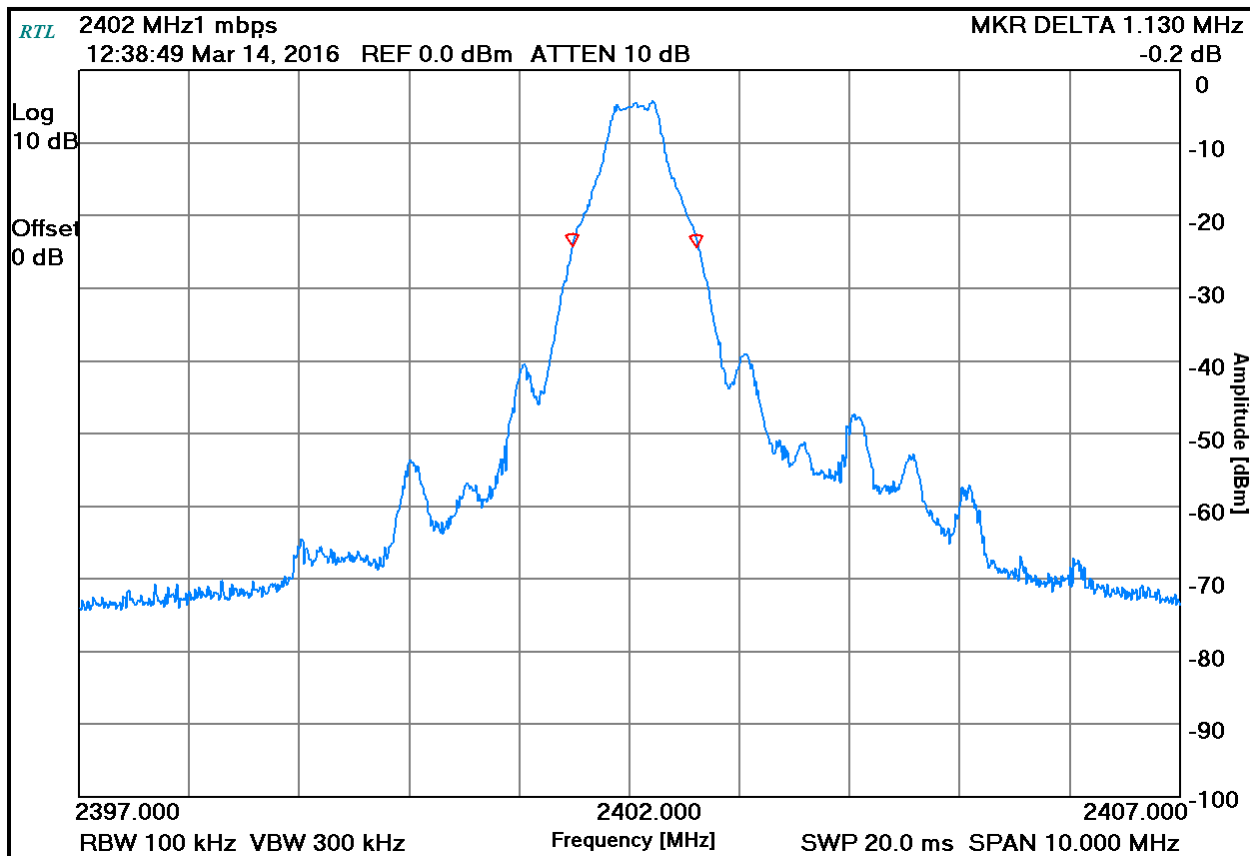
Frequency (MHz)	20 dB Bandwidth (MHz)
2402	1.43
2441	1.40
2480	1.41

Table 7-3: 20 dB Modulated Bandwidth Test Data – 3-EDR (3 Mbps)

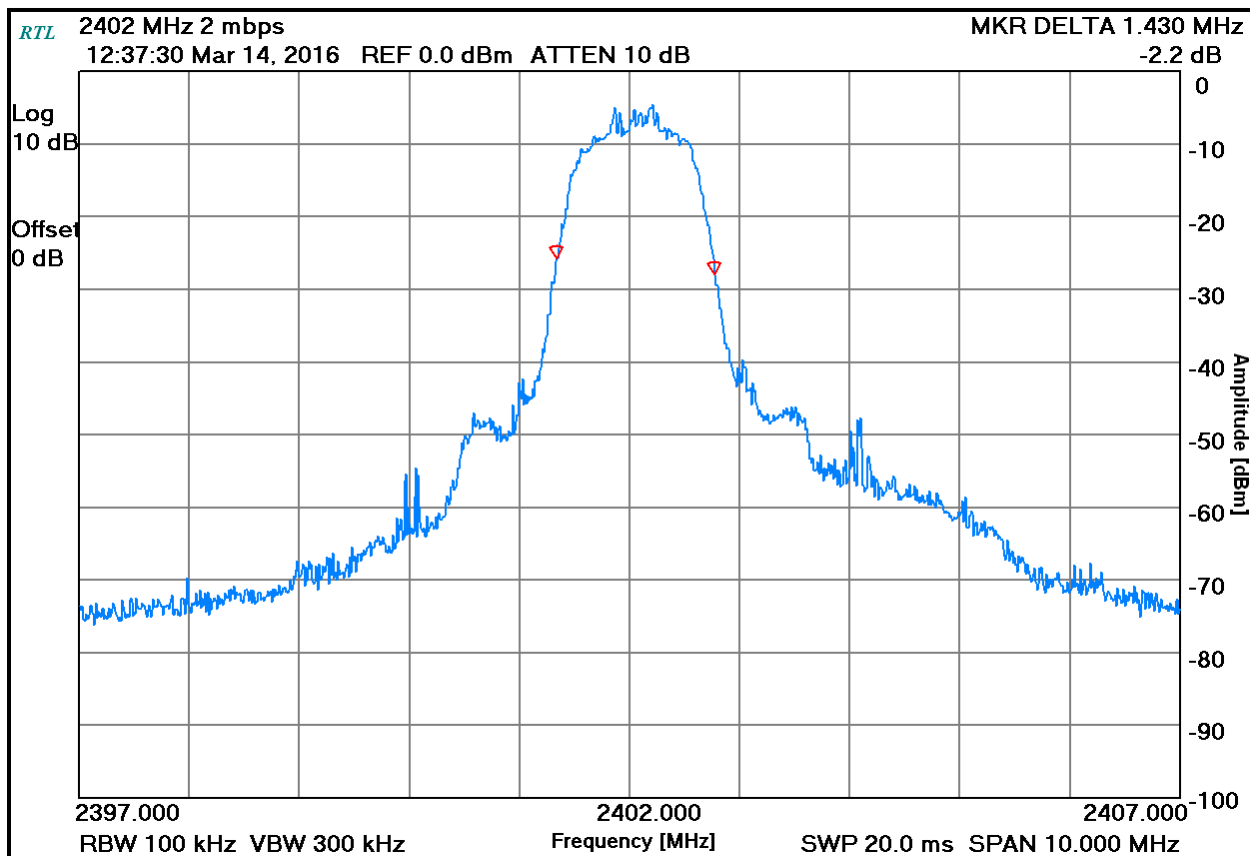
Frequency (MHz)	20 dB Bandwidth (MHz)
2402	1.42
2441	1.39
2480	1.41

7.3 20 dB Bandwidth Plots

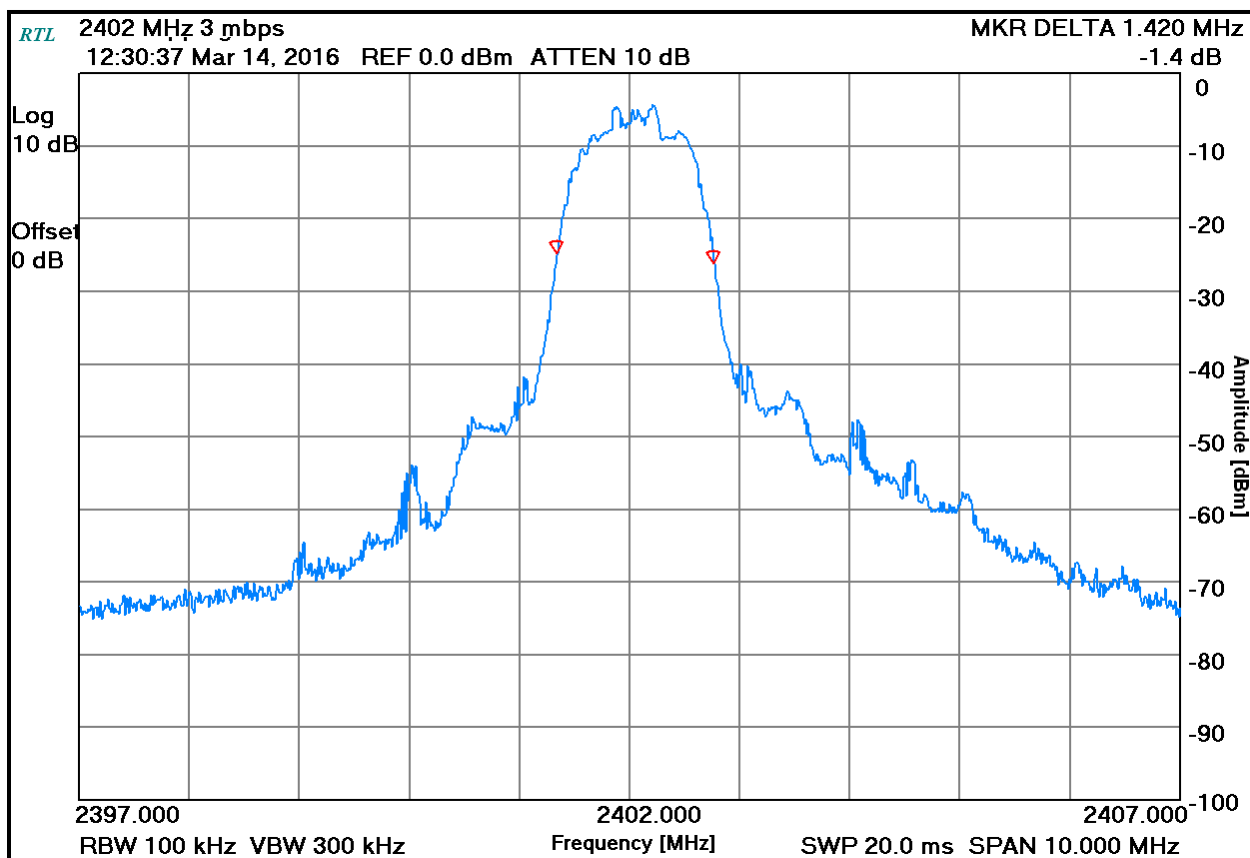
Plot 7-1: 20 dB Bandwidth - 2402 MHz; GFSK



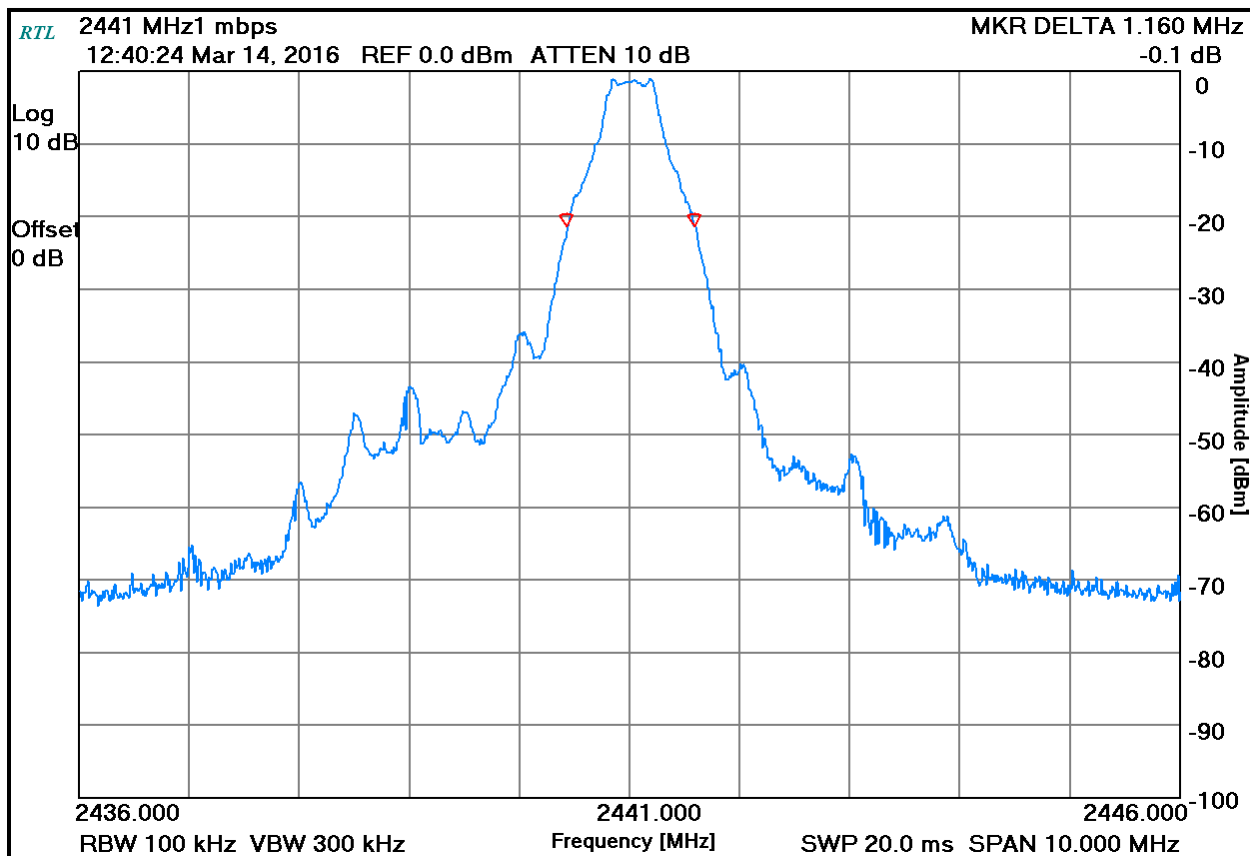
Plot 7-2: 20 dB Bandwidth - 2402 MHz; 2-EDR



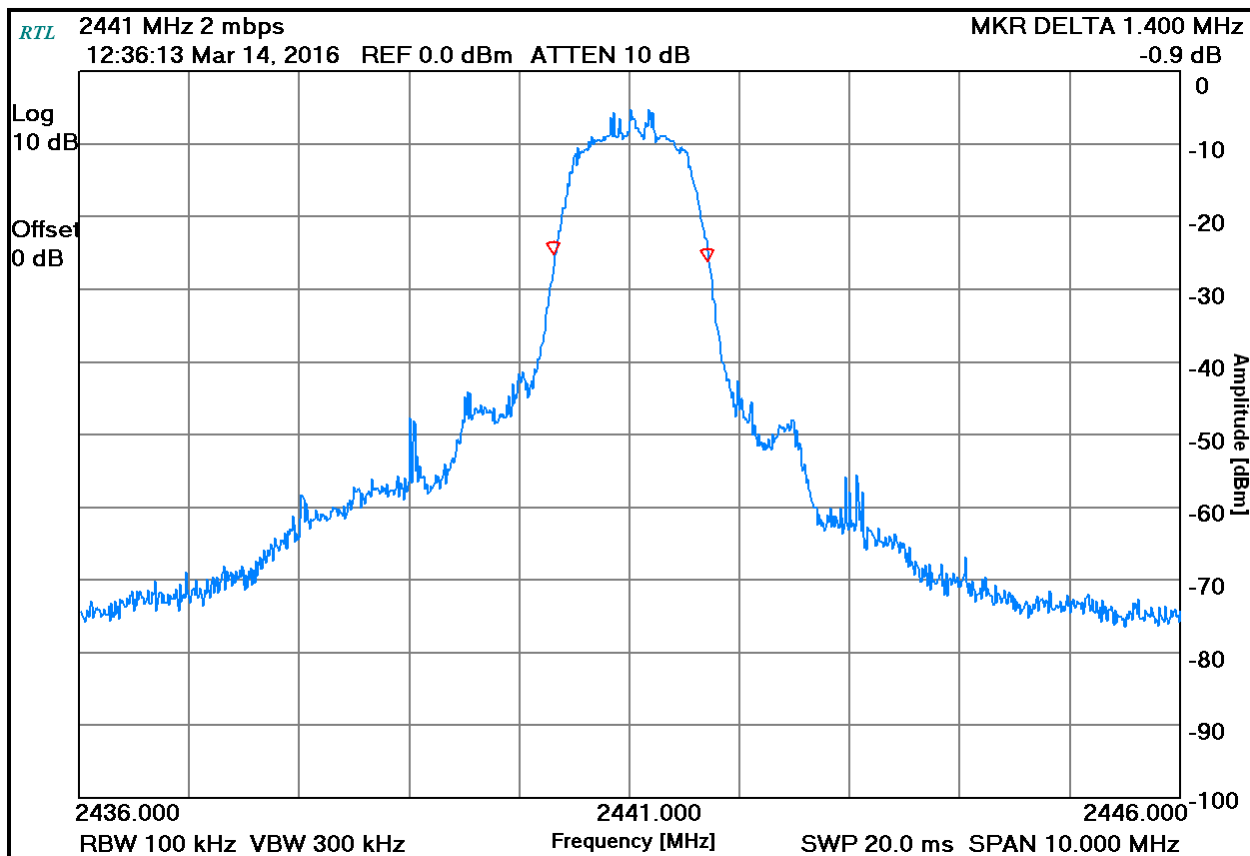
Plot 7-3: 20 dB Bandwidth - 2402 MHz; 3-EDR



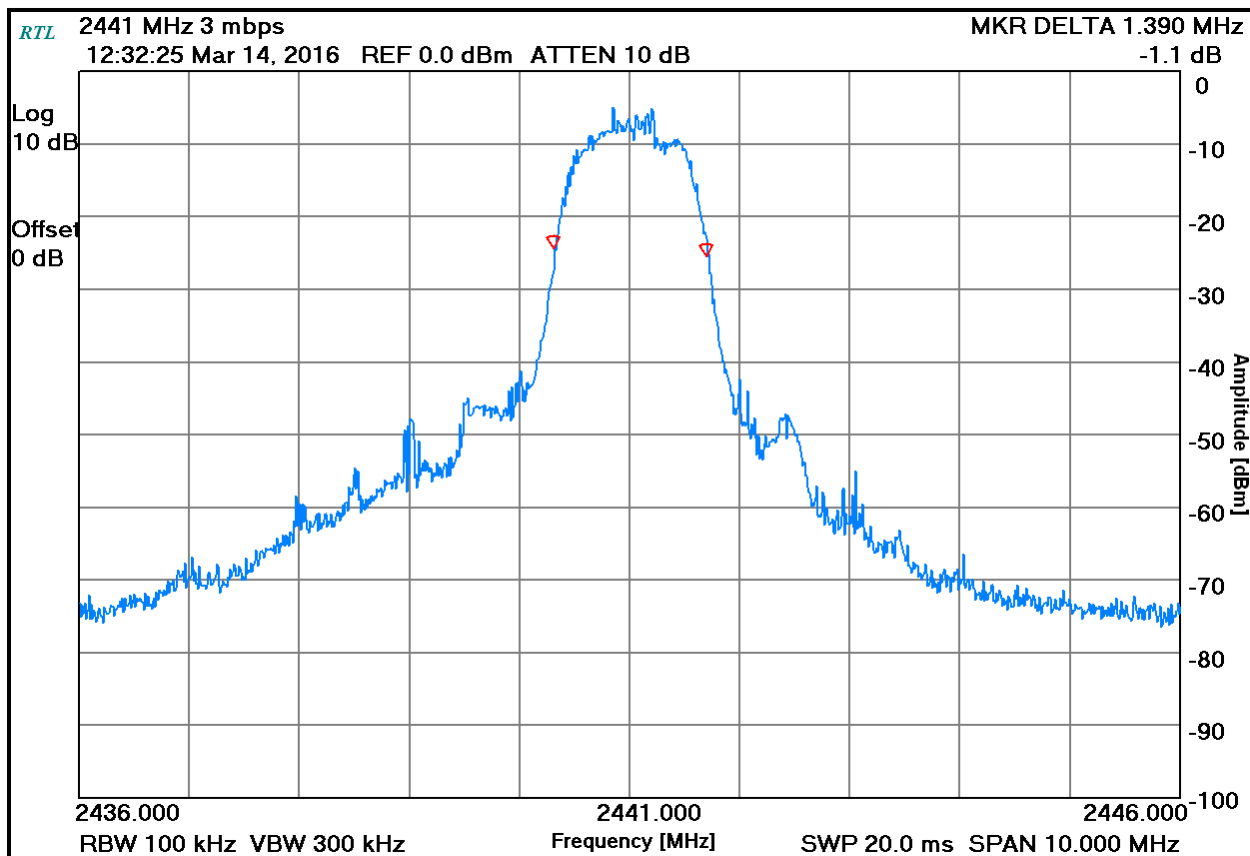
Plot 7-4: 20 dB Bandwidth - 2441 MHz; GFSK



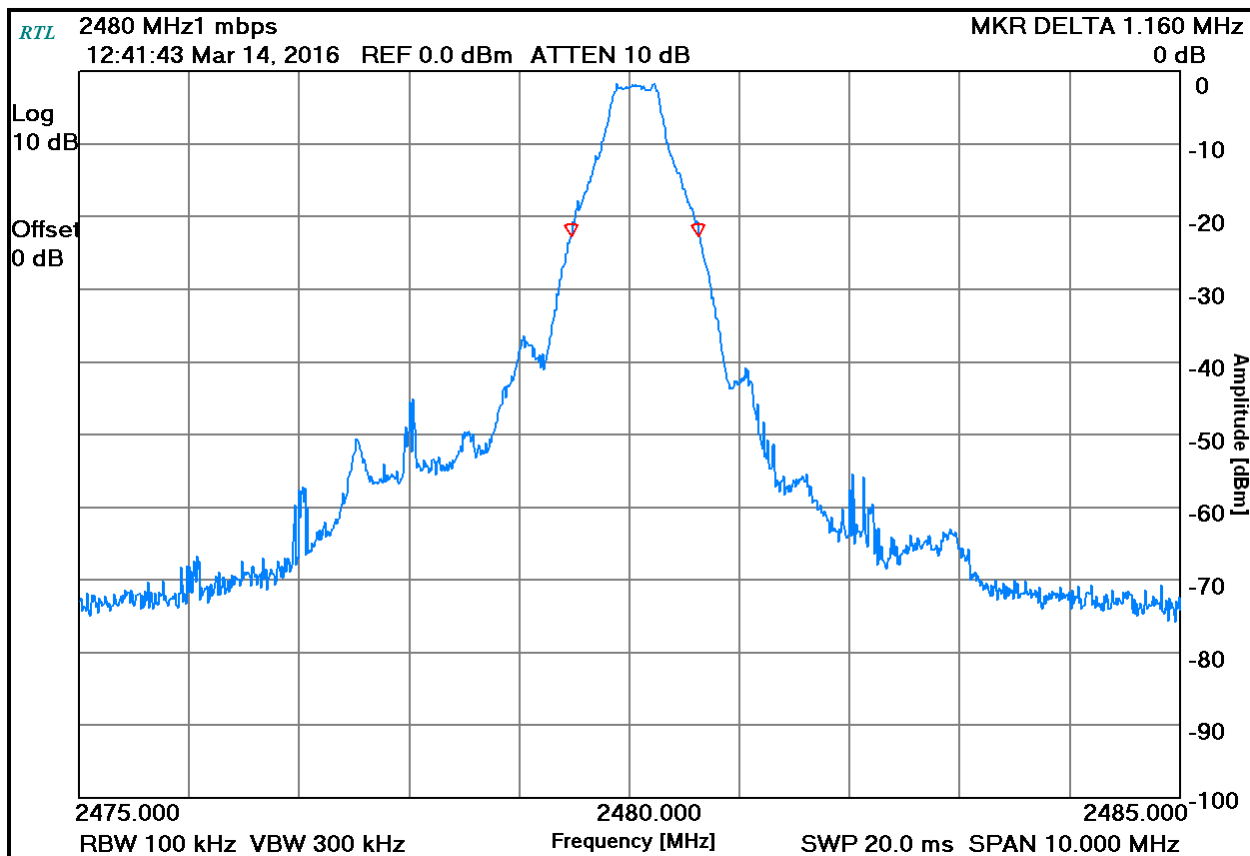
Plot 7-5: 20 dB Bandwidth - 2441 MHz; 2-EDR



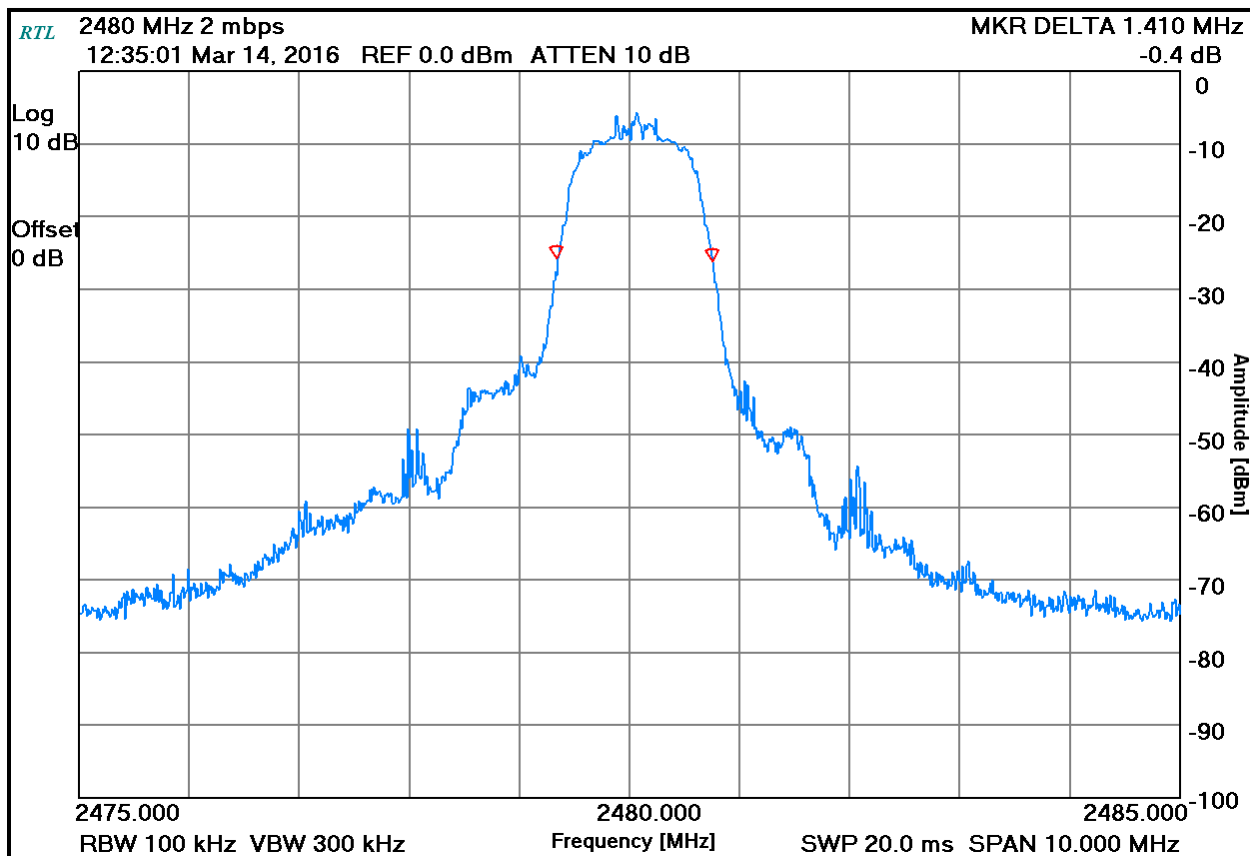
Plot 7-6: 20 dB Bandwidth - 2441 MHz; 3-EDR



Plot 7-7: 20 dB Bandwidth - 2480 MHz; GFSK



Plot 7-8: 20 dB Bandwidth - 2480 MHz; 2-EDR



Plot 7-9: 20 dB Bandwidth - 2480 MHz; 3-EDR

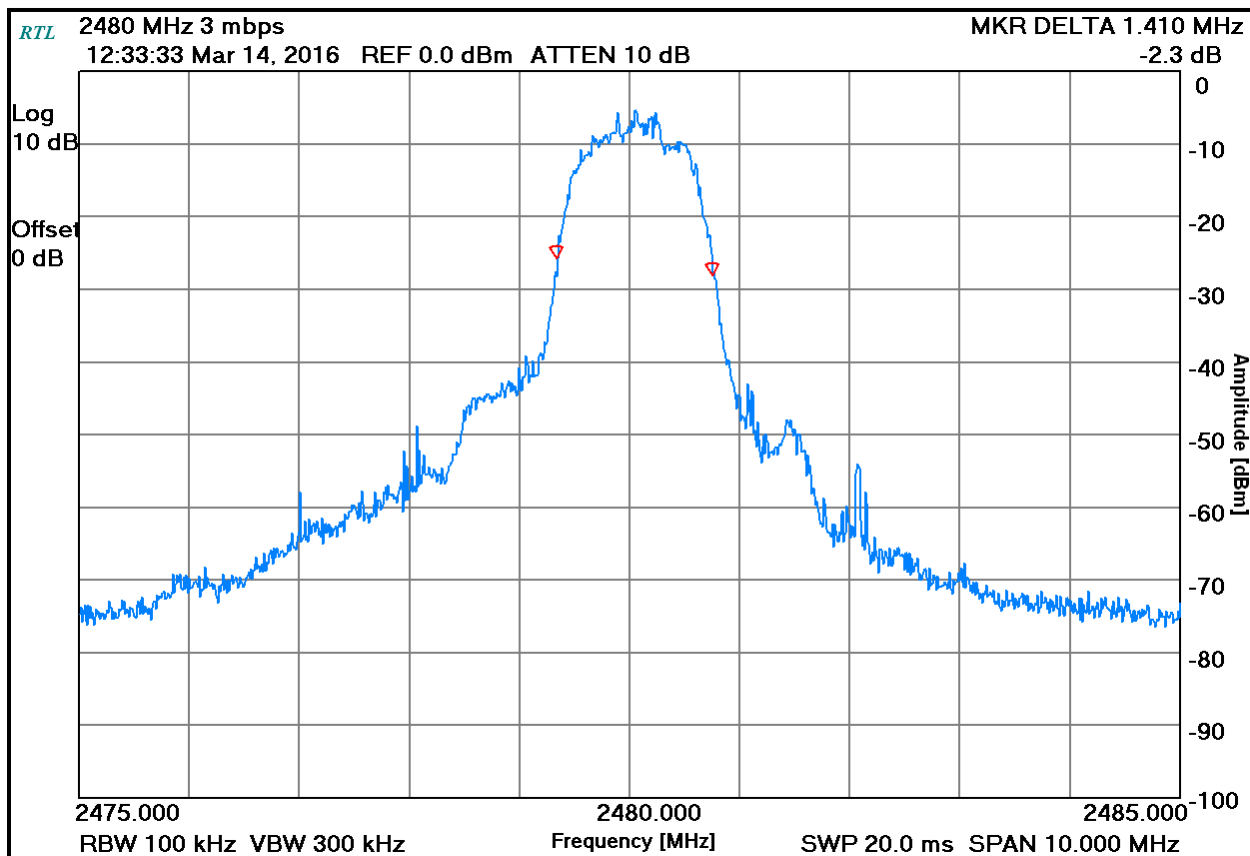


Table 7-4: 20 dB Bandwidth Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 14, 2016 Date of Test
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8 Carrier Frequency Separation - 15.247(a)(1), RSS-247 5.1(2)

8.1 Carrier Frequency Separation Test Procedure

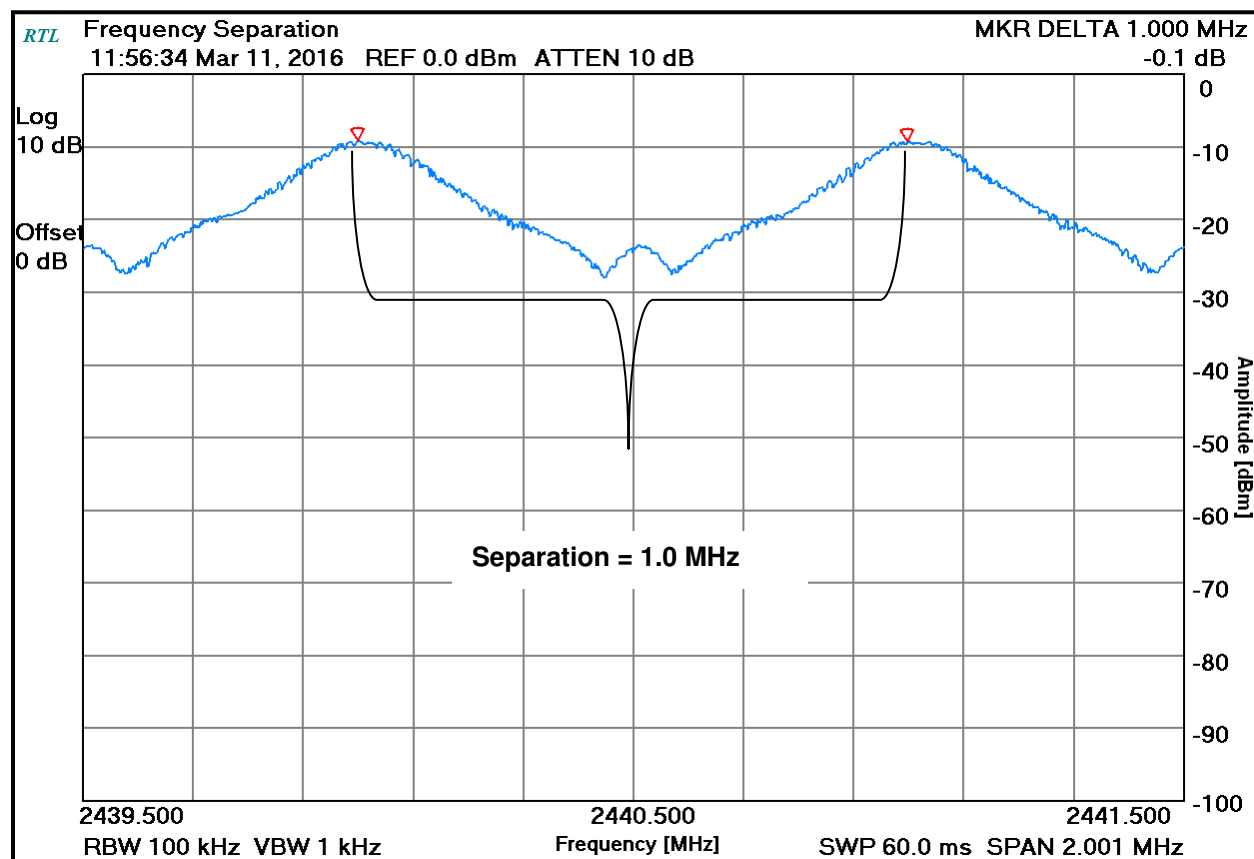
Procedure: C63.10-2013 7.8.2

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz, or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of greater, provided the systems operate with an output power no greater than 125 mW.

Measured frequency separation = 1.0 MHz

8.2 Carrier Frequency Separation Test Data

Plot 8-1: Carrier Frequency Separation



9 Hopping Characteristics – FCC 15.247(a)(1)(iii), RSS-247 5.1(4)

9.1 Hopping Characteristics Test Procedure

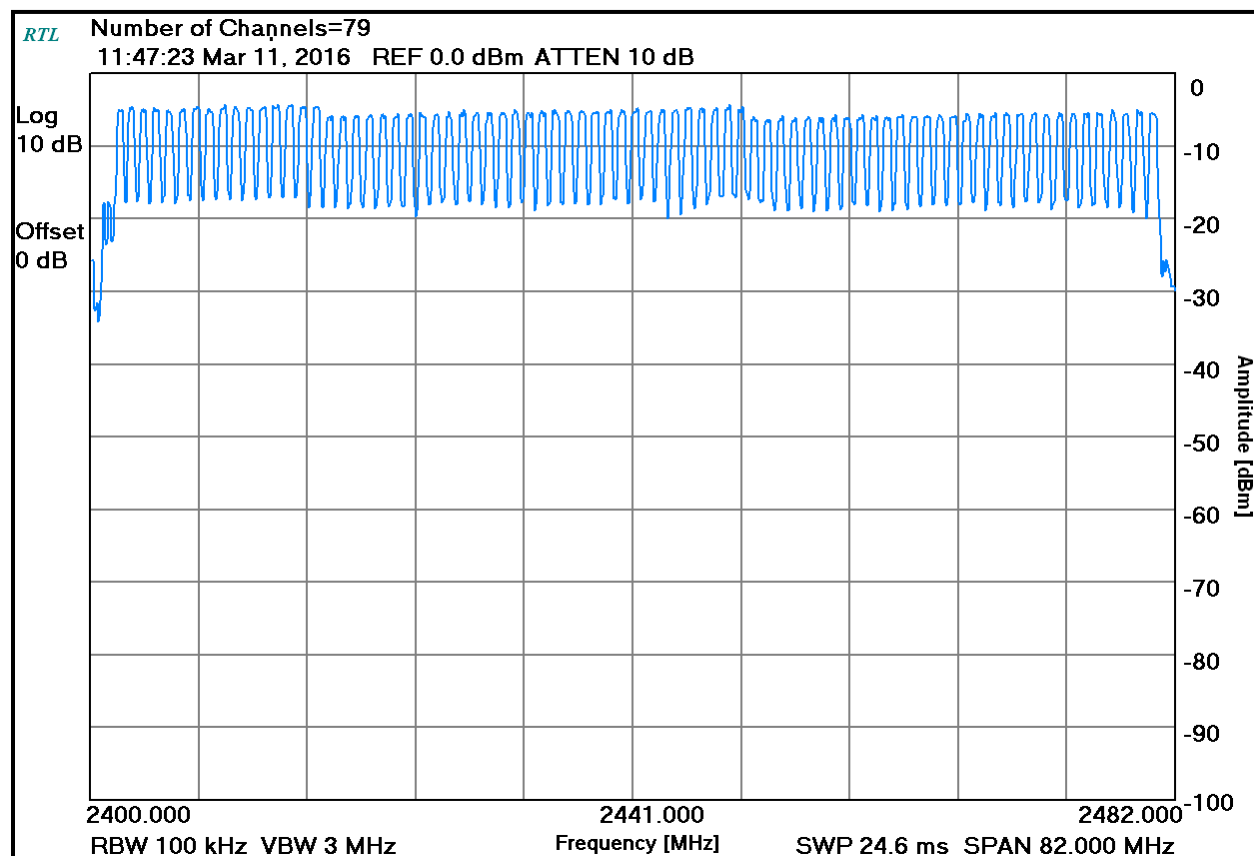
Procedure: C63.10-2013 7.8.3

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

9.2 Number of Hopping Frequencies

Measured number of hopping frequencies = 79

Plot 9-1: Number of Hopping Frequencies (2402 - 2480 MHz)



9.3 Average Time of Occupancy

Procedure: C63.10-2013 7.8.4

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

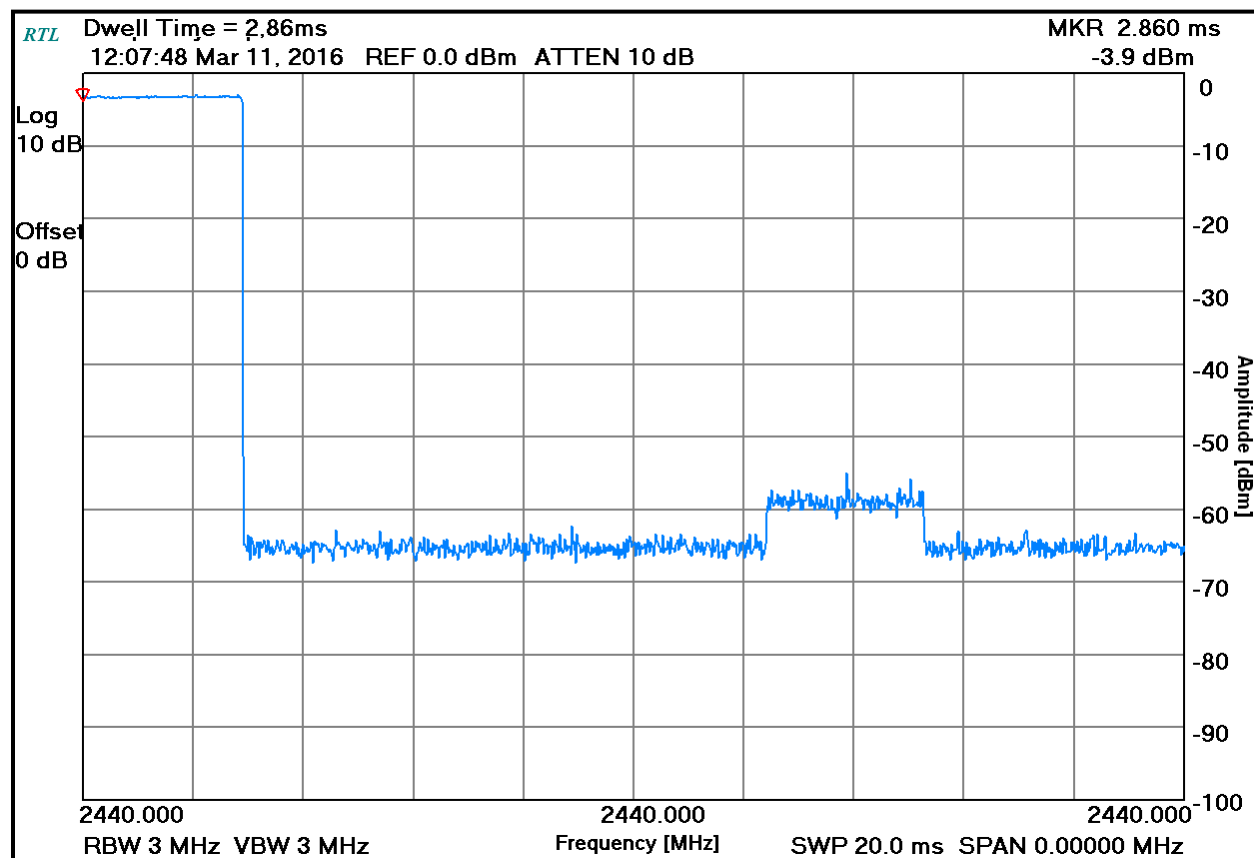
Allowed period = 0.4 s X 79 channels = 31.6 s

Pulse width = 2.86 ms

Number of pulses within a 31.6 s sweep = 32

Average time of occupancy in 31.6 s = 2.86 ms X 32 pulses = 0.092 s, which meets the limit of 0.4 s

Plot 9-2: Time of Occupancy (Dwell Time)



Plot 9-3: Number of Pulses in 31.6 Second Sweep

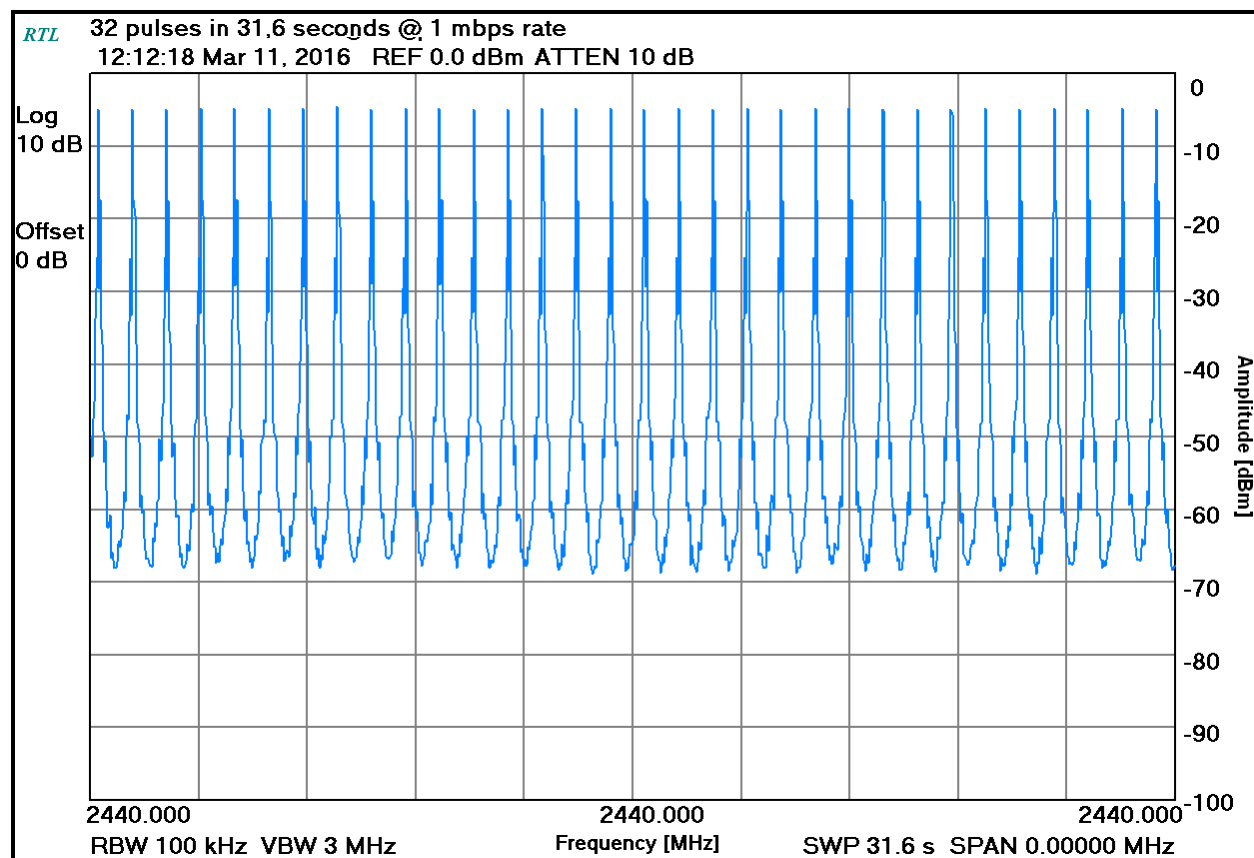


Table 9-1: Hopping Characteristics Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 11, 2016 Date of Test
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10 Radiated Emissions Test Results - FCC Rules and Regulations Part 15.247(d); RSS-247 2.2

10.1 Limits of Radiated Emissions Measurement

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

As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any circumstances of modulation.

10.2 Radiated Emissions Measurement Test Procedure

Before final measurements of radiated emissions were made on the open-field three/ten meter range, the EUT was scanned indoors at one and three meter distances. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to ensure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three/ten-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 9 kHz to the 10th harmonic of the highest fundamental transmitter frequency (24.8 GHz).

At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations. For frequencies between 30 and 1000 MHz, the spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. For emissions above 1000 MHz, emissions are measured using the average detector function with a minimum resolution bandwidth of 1 MHz. No video filter less than 10 times the resolution bandwidth was used. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

10.3 Radiated Emissions Harmonics/Spurious Test Data

Table 10-1: Radiated Emissions Harmonics/Spurious - 2402 MHz - Average

Emission Frequency (MHz)	Calculated Average (dBuV) Peak – 47.6 duty cycle correction	Site Correction Factor (dB/m)	Average Emission Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)
4804.0	33.1	-0.4	32.7	54.0	-21.3
12012.0	11.9	12.0	23.9	54.0	-30.1
19218.0	26.1	23.6	49.7	54.0	-4.3

Table 10-2: Radiated Emissions Harmonics/Spurious - 2402 MHz - Peak

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV) (1 MHz RBW/VBW)	Site Correction Factor (dB/m)	Peak Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
4804.0	43.9	-0.4	43.5	74.0	-30.5
12012.0	25.9	12.0	37.9	74.0	-36.1
19218.0	44.7	23.6	68.3	74.0	-5.7

Table 10-3: Radiated Emissions Harmonics/Spurious - 2441 MHz - Average

Emission Frequency (MHz)	Calculated Average (dBuV) Peak – 47.6 duty cycle correction	Site Correction Factor (dB/m)	Average Emission Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)
4882.0	32.7	-0.3	32.4	54.0	-21.6
7323.0	10.4	2.6	13.0	54.0	-41.0
12205.0	11.9	12.1	24.0	54.0	-30.0
19528.0	26.5	23.9	50.4	54.0	-3.6

Table 10-4: Radiated Emissions Harmonics/Spurious – 2441 MHz - Peak

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV) (1 MHz RBW/VBW)	Site Correction Factor (dB/m) 47.6 Duty Cycle Correction	Peak Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
4882.0	43.8	-0.3	43.5	74.0	-30.5
7323.0	18.1	2.6	20.7	74.0	-53.3
12205.0	25.6	12.1	37.7	74.0	-36.3
19528.0	43.1	23.9	67.0	74.0	-7.0

Table 10-5: Radiated Emissions Harmonics/Spurious - 2480 MHz - Average

Emission Frequency (MHz)	Calculated Average (dBuV) Peak – 47.6 duty cycle correction	Site Correction Factor (dB/m)	Average Emission Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)
4960.0	33.3	-0.1	33.2	54.0	-20.8
7440.1	7.5	2.8	10.3	54.0	-43.7
12400.0	12.1	12.2	24.3	54.0	-29.7
19840.0	27.2	24.2	51.4	54.0	-2.6
22320.0	22.1	26.9	49.0	54.0	-5.0

Table 10-6: Radiated Emissions Harmonics/Spurious – 2480 MHz - Peak

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV) (1 MHz RBW/VBW)	Site Correction Factor (dB/m) 47.6 Duty Cycle Correction	Peak Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
4960.0	37.6	-0.1	37.5	74.0	-36.5
7440.1	14.2	2.8	17.0	74.0	-57.0
12400.0	25.9	12.2	38.1	74.0	-35.9
19840.0	45.7	24.2	69.9	74.0	-4.1
22320.0	40.7	26.9	67.6	74.0	-6.4

Table 10-7: Radiated Emissions Harmonics/Spurious – Peak Hopping Mode

Emission Frequency (MHz)	Peak Analyzer Reading (dBuV) (1 MHz RBW/VBW)	Site Correction Factor (dB/m) 47.6 Duty Cycle Correction	Peak Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Peak Margin (dB)
4877.0	37.3	-0.3	37.0	74.0	-37.0
4893.0	36.7	-0.3	36.4	74.0	-37.6
4953.8	42.4	-0.1	42.3	74.0	-31.7
7349.4	40.2	2.6	42.8	74.0	-31.2
7410.0	42.8	2.7	45.5	74.0	-28.5
12143.4	42.6	12.0	54.6	74.0	-19.4
12268.6	43.0	12.1	55.1	74.0	-18.9

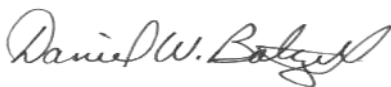
Table 10-8: Radiated Emissions Harmonics/Spurious - Average Hopping Mode

Emission Frequency (MHz)	Calculated Average (dBuV) Peak – 47.6 duty cycle correction	Site Correction Factor (dB/m)	Average Emission Level (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)
4877.0	26.8	-0.3	26.5	54.0	-27.5
4893.0	27.4	-0.3	27.1	54.0	-26.9
4953.8	28.1	-0.1	28.0	54.0	-26.0
7349.4	26.9	2.6	29.5	54.0	-24.5
7410.0	28.2	2.7	30.9	54.0	-23.1
12143.4	29.0	12.0	41.0	54.0	-13.0
12268.6	28.7	12.1	40.8	54.0	-13.2

Table 10-9: Radiated Emissions Test Equipment

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900932	Hewlett Packard	8449B OPT H02	Preamplifier (1 - 26.5 GHz)	3008A00505	9/10/16
900878	Rhein Tech Laboratories	AM3-1197-0005	3 meter antenna mast, polarizing	OATS1	N/A
901592	Insulated Wire Inc.	KPS-1503-3600-KPR	SMK RF Cables 20'	NA	9/4/16
901593	Insulated Wire Inc.	KPS-1503-360-KPR	SMK RF Cables 36"	NA	9/4/16
901594	Insulated Wire Inc.	KPS-1503-360-KPR	SMK RF Cables 36"	NA	9/4/16
901242	Rhein Tech Laboratories	WRT-000-0003	Wood rotating table	N/A	N/A
900791	Chase	CBL6111B	Bilog Antenna (30 MHz – 2000 MHz)	N/A	6/11/17
900321	EMCO	3161-03	Horn Antennas (4 – 8 GHz)	9508-1020	4/09/18
900323	EMCO	3160-07	Horn Antennas (8.2 – 12 GHz)	9605-1054	4/09/18
900356	EMCO	3160-08	Horn Antennas (12.4 – 18 GHz)	9607-1044	4/09/18
901218	EMCO	3160-09	Horn Antenna (18 - 26 GHz)	960281-003	4/14/18
900772	EMCO	3161-02	Horn Antenna (2 - 4 GHz)	9804-1044	4/09/18
900930	Hewlett Packard	85662A	Spectrum Analyzer Display Section	3144A20839	4/21/16
900931	Hewlett Packard	8566B	Spectrum Analyzer (100 Hz - 22 GHz)	3138A07771	4/21/16

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	March 11-15, 2016 Dates of Test
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11 Conclusion

The data in this measurement report shows that the **Harris Corporation Model XG-25P UHF, FCC ID: OWDTR-0141-E, IC: 3636B-0141**, complies with the applicable requirements of FCC Part 15 and Part 2, and IC RSS-247.