ENGINEERING TEST REPORT

DRU-200W
Model: DRU-200
FCC ID: 2ACLT-DRU200

Applicant:

Unique Broadband Systems Ltd.
400 Spinnaker Way
Vaughan, Ontario
Canada L4K 5Y9

Tested in Accordance With

Federal Communications Commission (FCC)
47 CFR, Parts 2 and 25

UltraTech's File No.: UNBS-006F25

This Test report is Issued under the Authority of Tri M. Luu Vice President of Engineering UltraTech Group of Labs Date: July 16, 2014	
Report Prepared by: Dan Huynh Issued Date: July 16, 2014	Tested by: Hung Trinh Test Dates: February 25 ~ July 16, 2014

- *The results in this Test Report apply only to the sample(s) tested, and the sample tested is randomly selected.*
- *This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US Government.*

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EXHIBIT 1. INTRODUCTION

1.1. SCOPE

Reference:	FCC Parts 2 and 25
Title:	Code of Federal Regulations (CFR), Title 47 –Telecommunication, Part 25 – satellite Communications
Purpose of Test:	To gain FCC Equipment Authorization for Radio operating in Part 25.
Test Procedures:	FCC KDB Publication 971168 D01

1.2. RELATED SUBMITTAL(S)/GRANT(S)

None.

1.3. NORMATIVE REFERENCES

Publication	Year	Title
FCC CFR Parts 0-19, 80-End	2013	Code of Federal Regulations, Title 47 – Telecommunication
ANSI C63.4	2009	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
FCC KDB Publication 971168 D01 v02r01	2013	Measurement Guidance for Certification of Licensed Digital Transmitters
TIA/EIA 603, Edition D	2010	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
CISPR 22 & EN 55022	2008-09, Edition 6.0 2006	Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement
CISPR 16-1-1 +A1 +A2	2006 2006 2007	Specification for radio disturbance and immunity measuring apparatus and methods. Part 1-1: Measuring Apparatus
CISPR 16-1-2 +A1 +A2	2003 2004 2006	Specification for radio disturbance and immunity measuring apparatus and methods. Part 1-2: Conducted disturbances

EXHIBIT 2. PERFORMANCE ASSESSMENT

2.1. CLIENT INFORMATION

Applicant	
Name:	Unique Broadband Systems Ltd.
Address:	400 Spinnaker Way Vaughan, Ontario Canada L4K 5Y9
Contact Person:	Ana Maria De Valencia Phone #: 905-669-8533 ext 141 Fax #: 905-669-8516 Email Address: anamariad@uniquesys.com

Manufacturer	
Name:	Unique Broadband Systems Ltd.
Address:	400 Spinnaker Way Vaughan, Ontario Canada L4K 5Y9
Contact Person:	Mr. Catalin Popescu Phone #: 905-669-8533 ext 125 Fax #: 905-669-8516 Email Address: catalinp@uniquesys.com

2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION

The following information (with the exception of the Date of Receipt) has been supplied by the applicant.

Brand Name:	Unique Broadband Systems Ltd.
Product Name:	DRU-200W
Model Name or Number:	DRU-200
Serial Number:	Test Sample
Type of Equipment:	Licensed Non-Broadcast Station Transmitter
Power Supply Requirement:	190 – 264 VAC (208 VAC 60 Hz Nominal)
Transmitting/Receiving Antenna Type:	Non-integral
Primary User Functions of EUT:	SDARS Terrestrial Repeater

2.3. EUT'S TECHNICAL SPECIFICATIONS

Transmitter	
Equipment Type:	Base station (fixed use)
Intended Operating Environment:	Commercial, industrial or business environment
Power Supply Requirement:	190 – 264 VAC (208 VAC 60 Hz Nominal)
RF Output Power Rating:	200 W, for Low Band (LB)* 200 W, for High Band (HB)** 0.4 W, for Low Band Diversity (LBD)
Operating Frequency Range:	2326.250 MHz (LB) 2326.256040 MHz (LBD) 2338.755 MHz (HB)
RF Output Impedance:	50 Ω
Channel Spacing:	N/A
Modulation Employed:	OFDM
Emission Designation:	4M04W1W, 4M97W1W, 23K2W1W
Antenna Connector Type:	7/8 EIA

*Low Band: 2320.0 – 2332.5 MHz

**High Band: 2332.5 – 2345.0 MHz

2.4. LIST OF EUT'S PORTS

Port Number	EUT's Port Description	Number of Identical Ports	Connector Type	Cable Type (Shielded/Non-shielded)
1	GPS	1	N	Shielded
2	HB Sat	1	N	Shielded
3	Cell Antenna	1	SMA	Shielded
4	Alarm	1	Terminal Block	Non-shielded
5	POTS	1	2-wire	Non-shielded
6	V-SAT	1	F	Shielded
7	AC Power	1	3-prong	Non-shielded
8	Output 1	1	7/8 EIA	Shielded
9	Output 2	1	7/8 EIA	Shielded
10	*WAN / AUX PORT	1	RJ45	Non-shielded

* Factory service only

2.5. ANCILLARY EQUIPMENT

None.

EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS

3.1. CLIMATE TEST CONDITIONS

The climate conditions of the test environment are as follows:

Temperature:	21°C - 24°C
Humidity:	45% to 58%
Pressure:	102 kPa
Power input source:	208 VAC 60Hz

3.2. OPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TEST SIGNALS

Operating Modes:	The transmitter was operated in a continuous transmission mode with the carrier modulated as specified in the Test Data.
Special Test Software:	N/A
Special Hardware Used:	N/A
Transmitter Test Antenna:	The EUT is tested with the transmitter antenna port terminated to a 50 Ω Load.

Transmitter Test Signals	
Frequency Band(s):	2326.250 MHz 2326.256040 MHz 2338.755 MHz
Test Frequency(ies):	2326.250 MHz 2326.256040 MHz 2338.755 MHz
Transmitter Wanted Output Test Signals:	
• Transmitter Power (measured maximum output power):	200 W, for LB and HB 0.4 W, for LBD
• Normal Test Modulation:	OFDM
• Modulating signal source:	External

EXHIBIT 4. SUMMARY OF TEST RESULTS

4.1. LOCATION OF TESTS

All of the measurements described in this report were performed at Ultratech Group of Labs located in the city of Oakville, Province of Ontario, Canada.

- AC Power Line Conducted Emissions were performed in UltraTech's shielded room, 24'(L) by 16'(W) by 8'(H).

- Radiated Emissions were performed at the Ultratech's 3-10 TDK Semi-Anechoic Chamber situated in the Town of Oakville, province of Ontario. This test site been calibrated in accordance with ANSI C63.4, and found to be in compliance with the requirements of Sec. 2.948 of the FCC Rules. The descriptions and site measurement data of the Oakville 3-10 TDK Semi-Anechoic Chamber has been filed with FCC office (FCC File No.: 91038) and Industry Canada office (Industry Canada File No.: 2049A-3). Expiry Date: 2017-04-02.

4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS

FCC Section(s)	Test Requirements	Applicability (Yes/No)
2.1046, 25.144(e)(7)(ii) & 25.214(d)(1)	RF Power Output	Yes
2.1049, 25.202(a)(6) & 25.202(f)	Occupied Bandwidth	Yes
2.1051, 2.1057 & 25.202(h)(1)	Spurious Emissions at Antenna Terminal	Yes
2.1053, 2.1057 & 25.202(h)(1)	Field Strength of Spurious Emissions	Yes
2.1055 & 25.202(d)	Frequency Stability	Yes
1.1307 & 1.1310	RF Exposure	See Note 1
Note 1: To be addressed at the time of licensing.		

4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES

None.

4.4. DEVIATION OF STANDARD TEST PROCEDURES

None.

EXHIBIT 5. TEST DATA

5.1. RF POWER OUTPUT [§§ 2.1046, 25.144(e)(7)(ii) & 25.214]

5.1.1. Limit(s)

§25.214(d)(1) SDARS terrestrial repeaters must be operated at a power level less than or equal to 12-kW average EIRP, with a maximum peak-to-average power ratio of 13 dB.

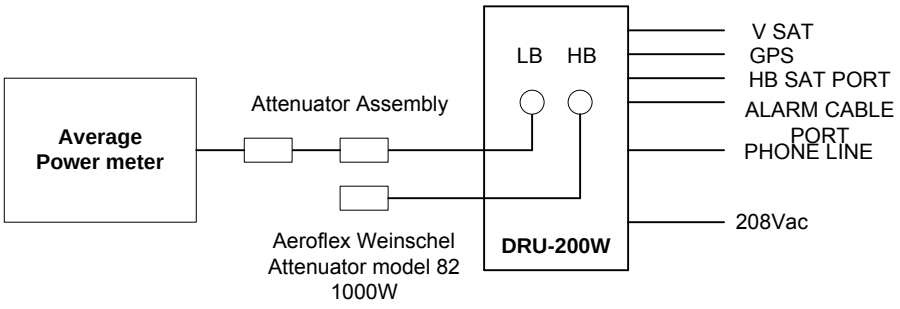
§25.144(e)(7)(ii) In addition to the procedures set forth in subpart J of part 2 of this chapter, power measurements for SDARS repeater transmitters may be made in accordance with a Commission-approved average power technique. Peak-to-average power ratio (PAPR) measurements for SDARS repeater transmitters should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that the PAPR will not exceed 13 dB for more than 0.1 percent of the time or another Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

5.1.2. Method of Measurements

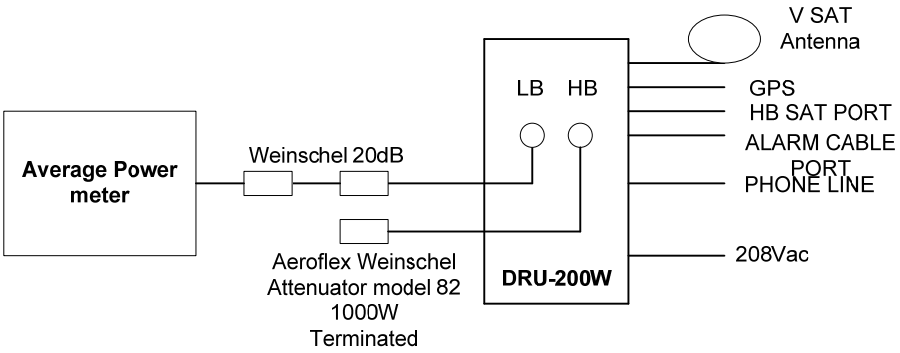
FCC KDB Publication 971168 D01, Sections 5.2.3 and 5.7.1

5.1.3. Test Arrangement

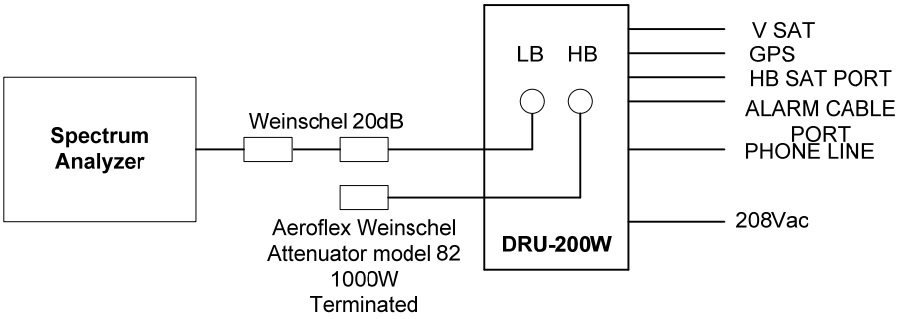
Average Power for LB and HB



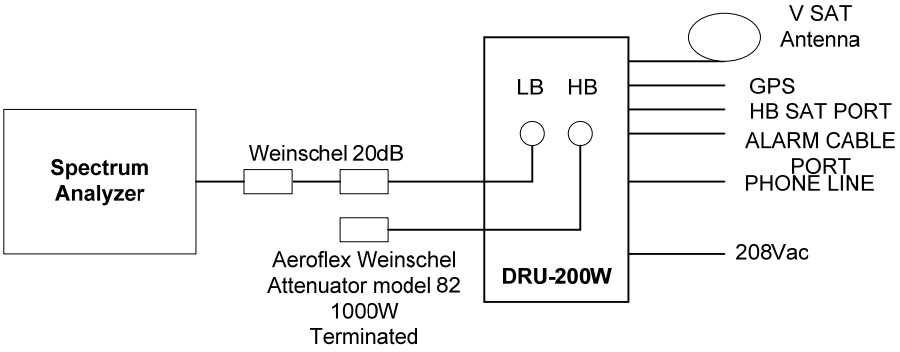
Average Power for LB Diversity



Peak-to-Average Power Ratio for LB and HB



Peak-to-Average Power Ratio for LB Diversity



5.1.4. Test Data

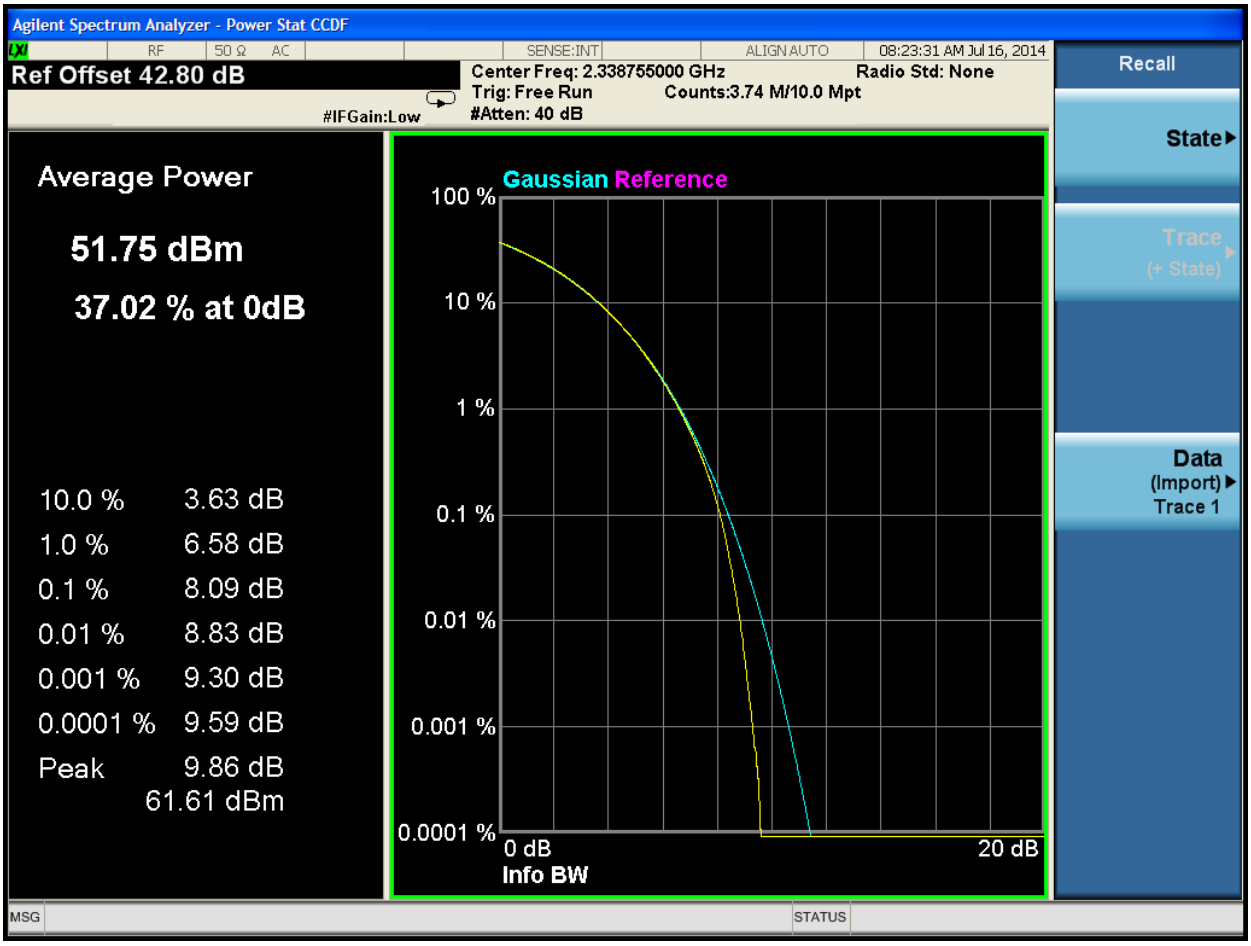
5.1.4.1. Average Power

Frequency Band	Frequency (MHz)	Measured Conducted Power Output		Power Output Rating	
		(dBm)	(W)	(dBm)	(W)
LB (2320.0 – 2332.5 MHz)	2326.250	53.01	199.99	53.0	200
LB Diversity (2320.0 – 2332.5 MHz	2326.256040	25.60	0.36	26.0	0.4
HB (2332.5 – 2345.0 MHz)	2338.755	53.01	199.99	53.0	200

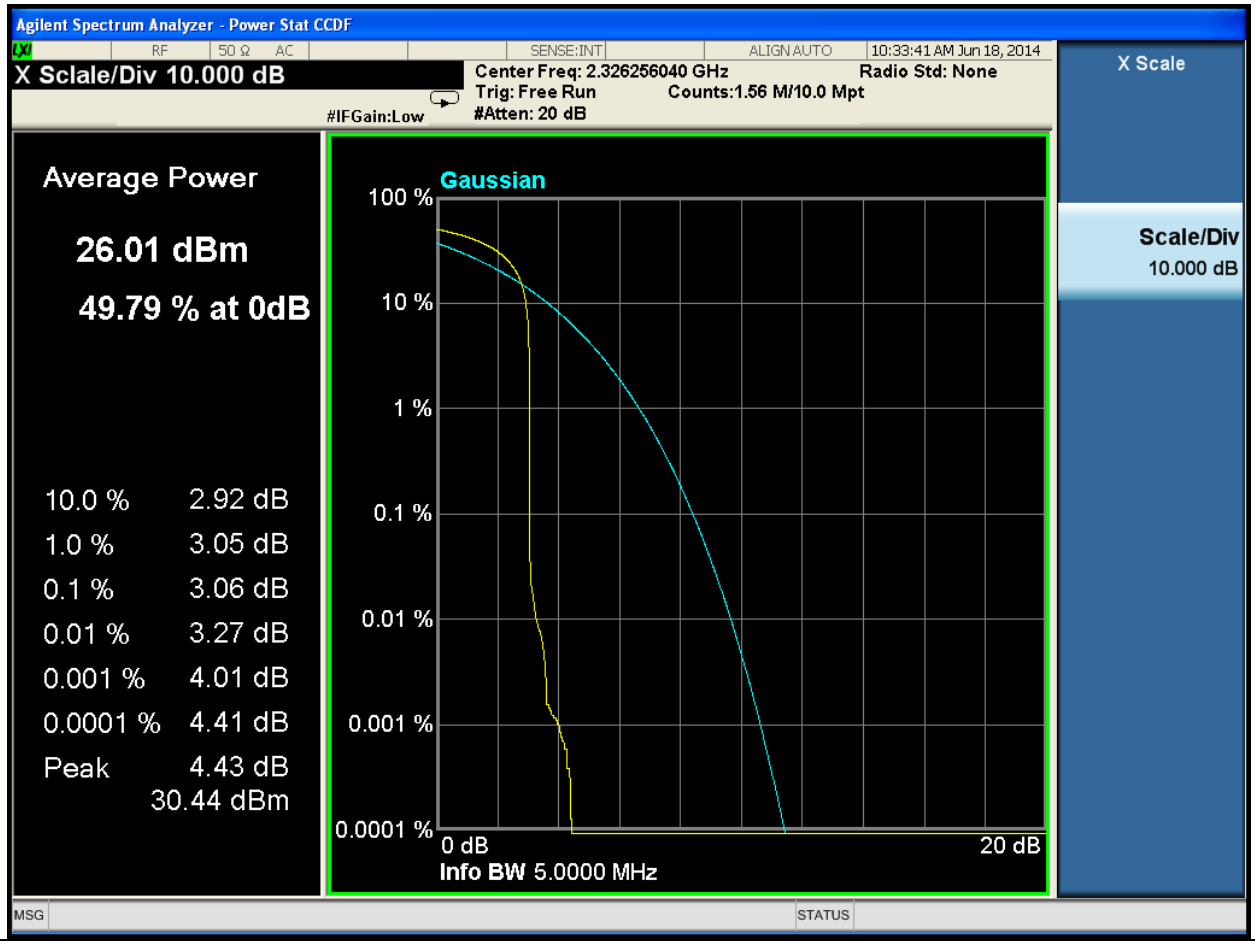
5.1.4.2. Peak-to-Average Power Ratio (PAPR)

Plot 5.1.4.2.1. Peak-to-Average Power Ratio, LB, 2326.250 MHz, OFDM Modulation, CCDF

Plot 5.1.4.2.2. Peak-to-Average Power Ratio, HB, 2338.755 MHz, OFDM Modulation, CCDF



Plot 5.1.4.2.3. Peak-to-Average Power Ratio, LB Diversity, 2326.256040 MHz, OFDM Modulation, CCDF



5.2. OCCUPIED BANDWIDTH [§§ 2.1049 & 25.202(a)(6)]

5.2.1. Limit(s)

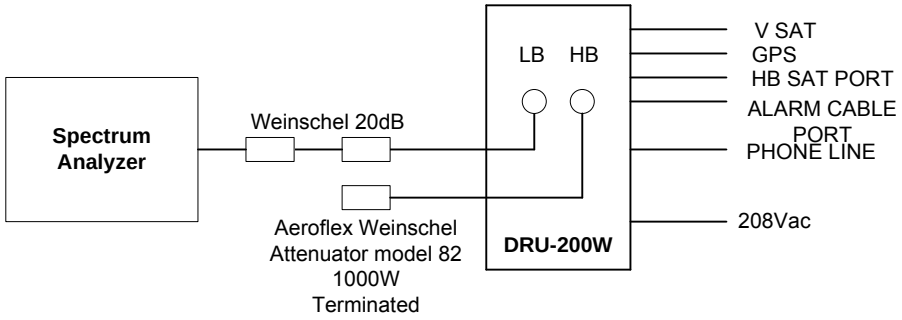
The occupied bandwidth shall be within the authorized frequency band of §25.202(a)(6) under which the equipment is operated.

5.2.2. Method of Measurements

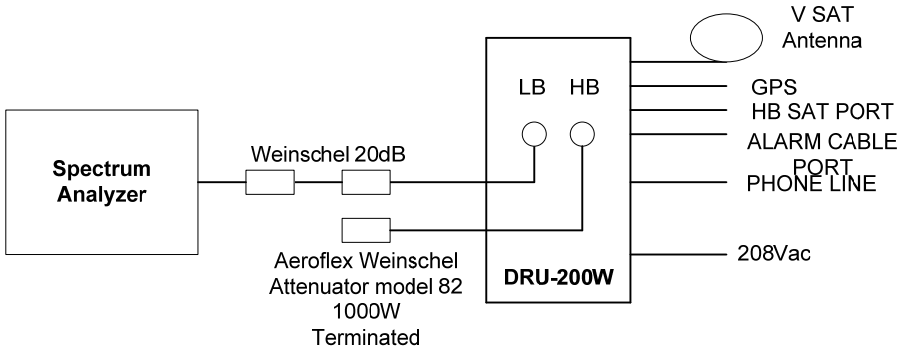
FCC KDB Publication 971168 D01, Section 4.2

5.2.3. Test Arrangement

Occupied Bandwidth for LB and HB



Occupied Bandwidth for LB Diversity



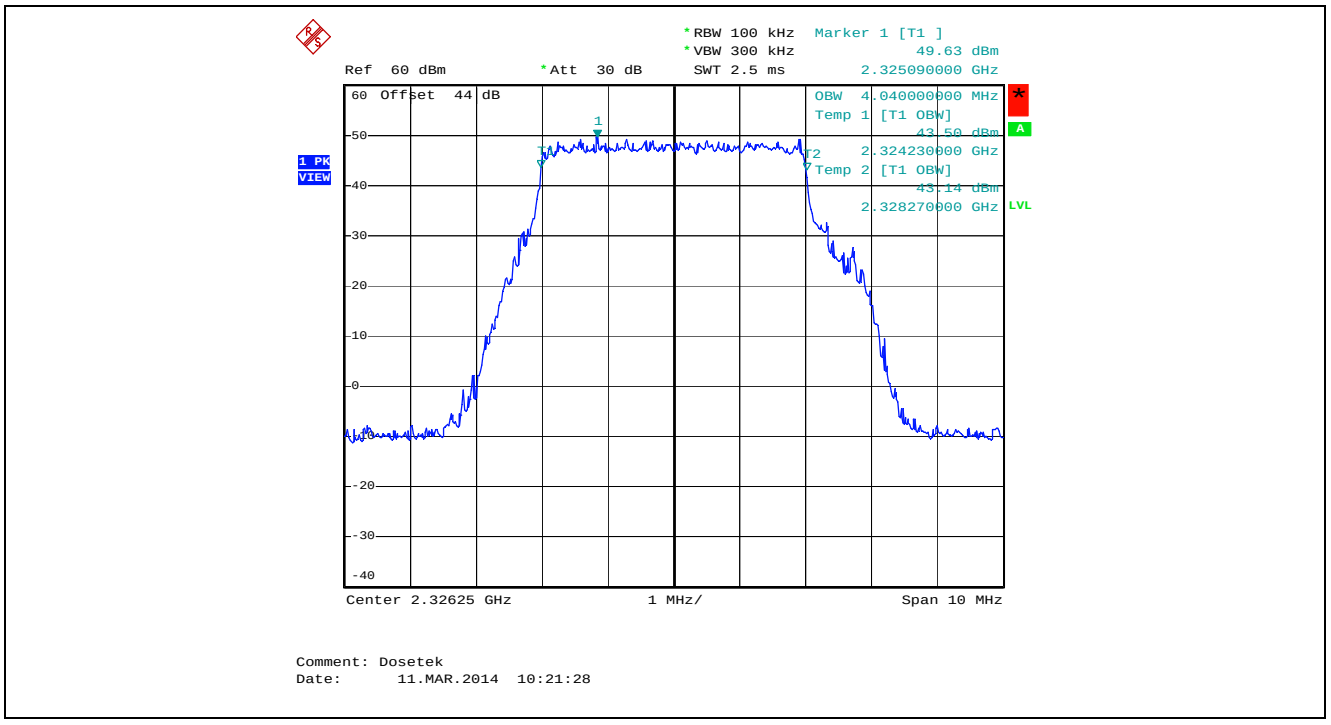
5.2.4. Test Data

Frequency Band	Frequency (MHz)	99% OBW (MHz)
LB (2320.0 – 2332.5 MHz)	2326.250	4.04
HB (2332.5 – 2345.0 MHz)	2338.755	4.97
LBD (2320.0 – 2332.5 MHz)	2326.256040	0.02318

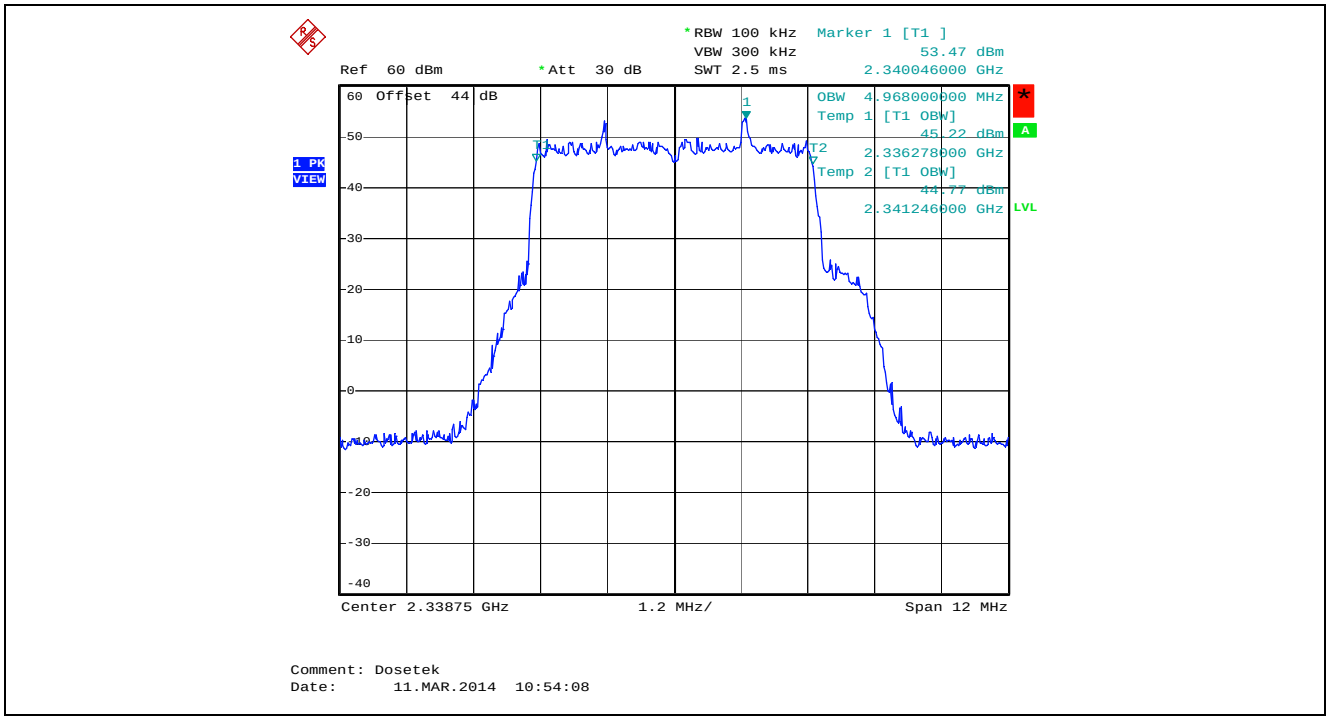
Note: 99% Occupied Bandwidth measurements were conducted using the built-in auto function of the analyzer.

See the following plots for detailed measurements.

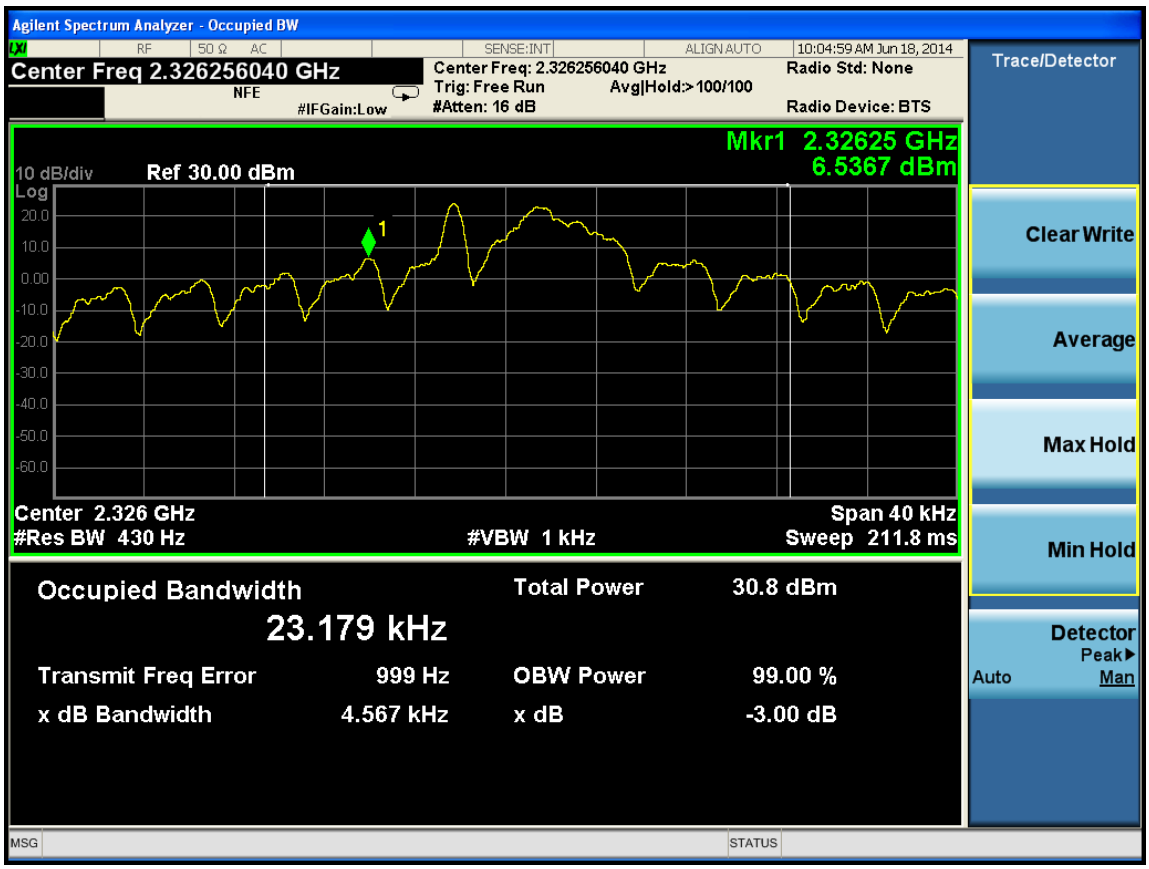
Plot 5.2.4.1.1. 99% Occupied Bandwidth, Low Band, 2326.250 MHz, OFDM Modulation



Plot 5.2.4.1.2. 99% Occupied Bandwidth, High Band, 2338.755 MHz, OFDM Modulation



Plot 5.2.4.1.3. 99% Occupied Bandwidth, LB Diversity 2326.256040 MHz, OFDM Modulation



5.3. TRANSMITTER ANTENNA POWER SPURIOUS/HARMONIC CONDUCTED EMISSIONS [§§ 2.1051, 2.1057 & 25.202]

5.3.1. Limit(s)

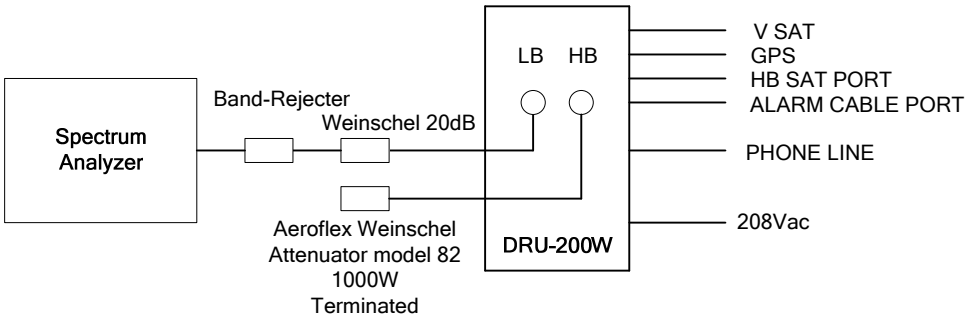
§25.202(h)(1) Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than 90 + 10 log (P) dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts.

5.3.2. Method of Measurements

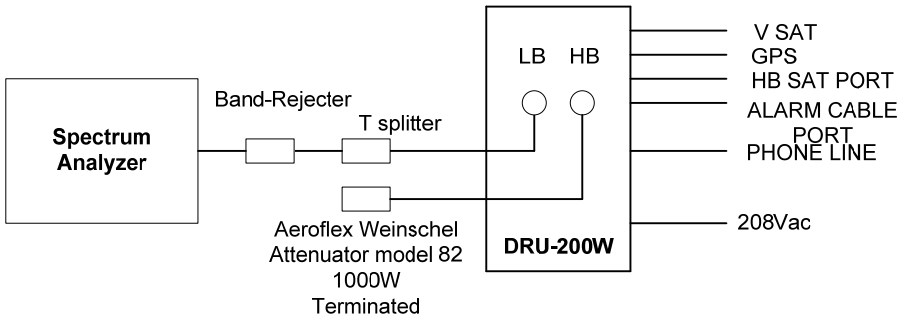
FCC KDB Publication 971168 Sections 5.4.1 and 6.0

5.3.3. Test Arrangement

Band-Edge Conducted Emission



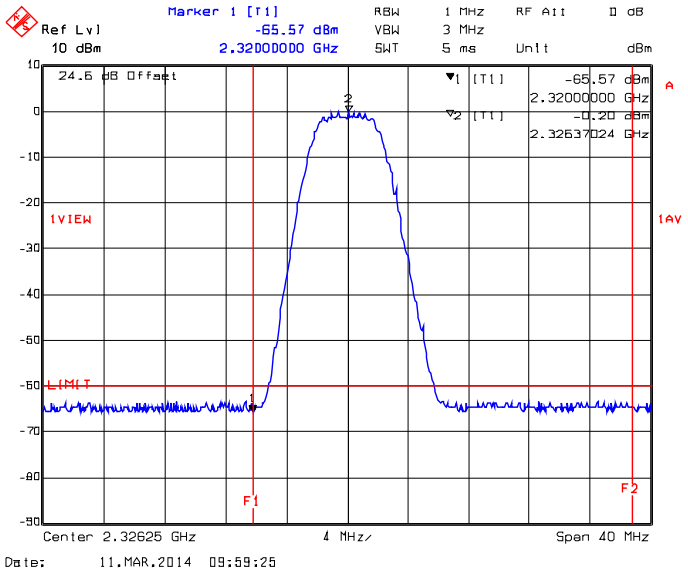
Out of Band Conducted Emission



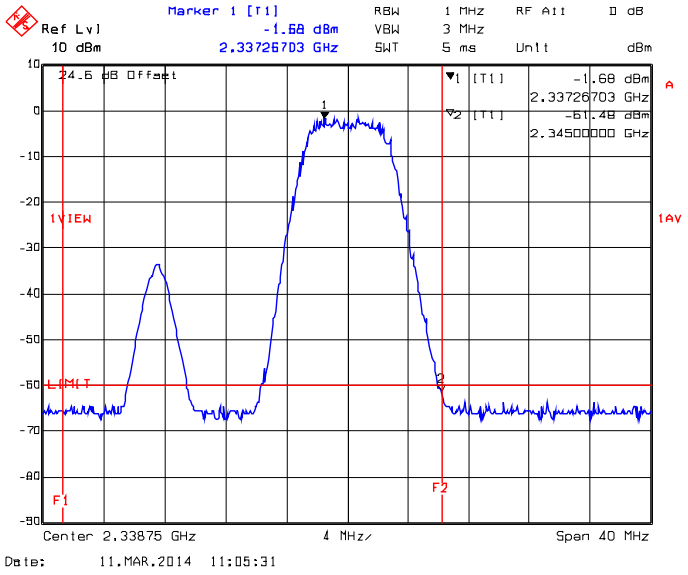
5.3.4. Test Data

5.3.4.1. Band-Edge RF Conducted Emissions

Plot 5.3.4.1.1. Band-Edge RF Conducted Emissions, Low Band, 2326.250 MHz, OFDM Modulation, Average Detector



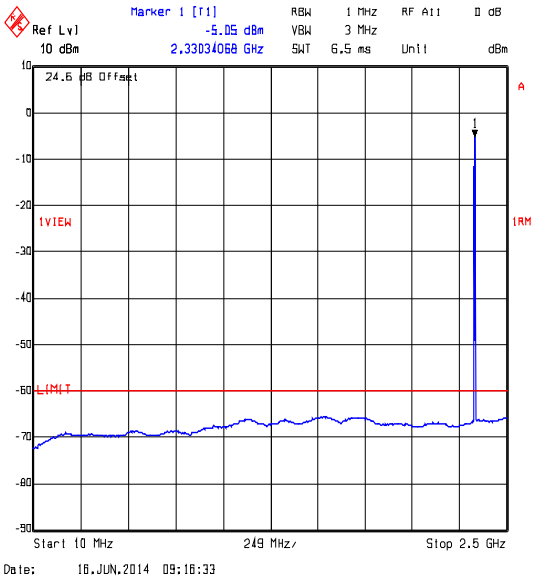
Plot 5.3.4.1.2. Band-Edge RF Conducted Emissions, High Band, 2338.755 MHz, OFDM Modulation, Average Detector



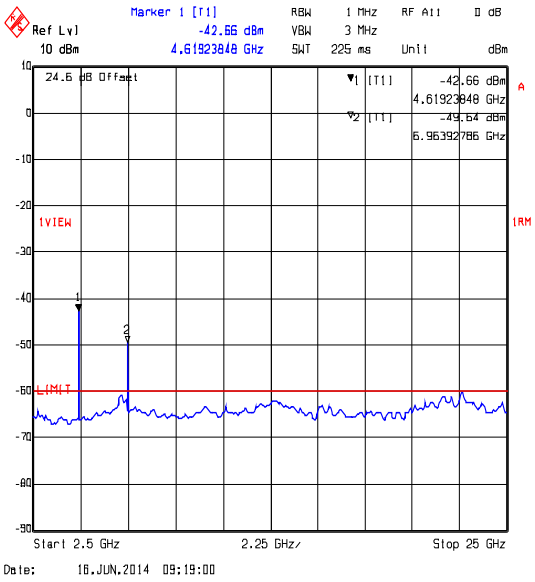
5.3.4.2. Conducted Spurious Emissions

Remark: The following test results are the worst-case measurements.

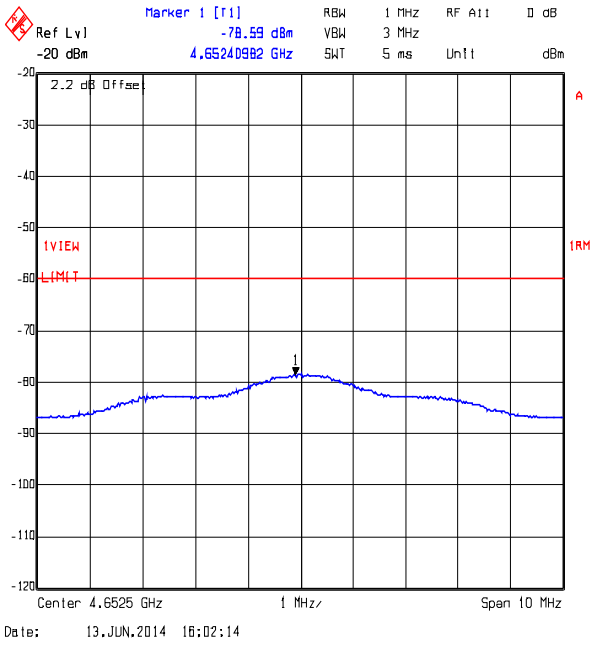
Plot 5.3.4.2.1. Conducted Spurious Emissions for LB, 2326.250 MHz, 10 MHz – 2.5 GHz



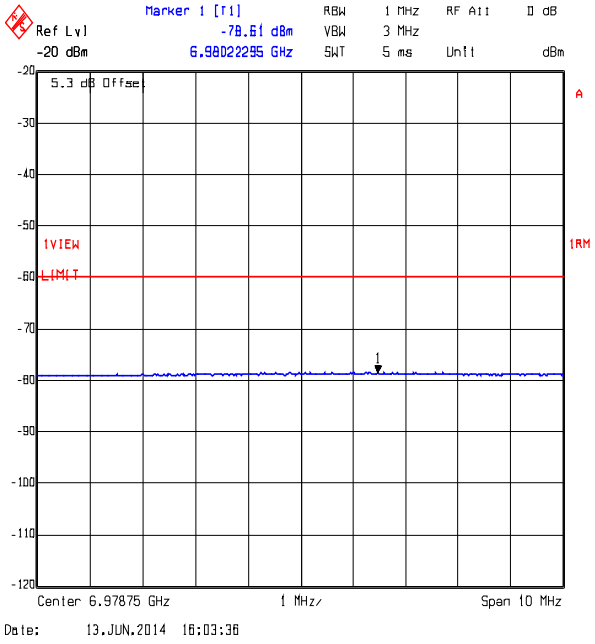
Plot 5.3.4.2.2. Conducted Spurious Emissions for LB, 2326.250 MHz, 2.5 GHz – 25 GHz



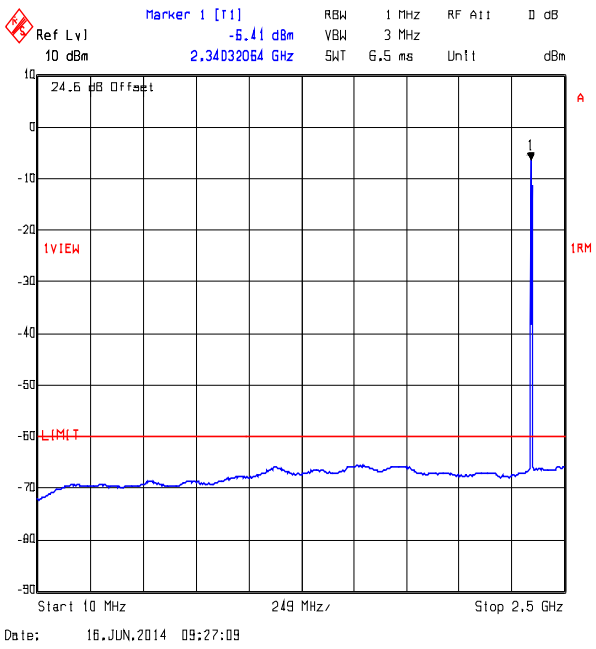
Plot 5.3.4.2.3. Conducted Spurious Emissions for LB, 2326.250 MHz, at Marker 1 Signal detected in Plot 5.3.4.2.2



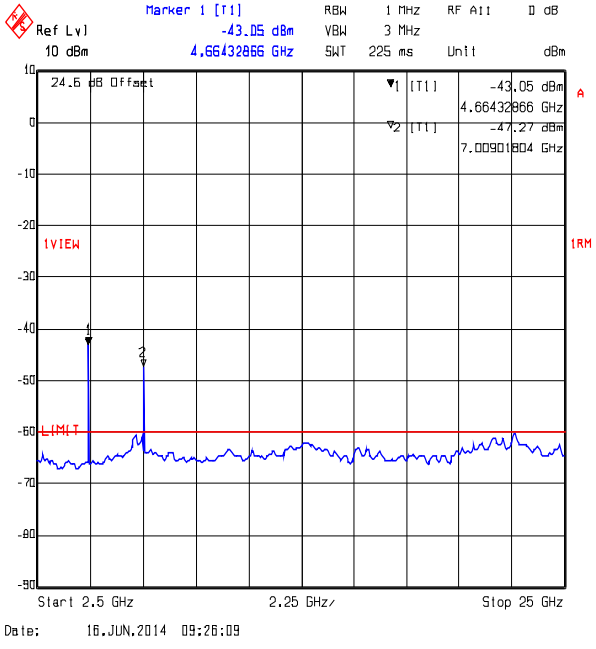
Plot 5.3.4.2.4. Conducted Spurious Emissions for LB, 2326.250 MHz, at Marker 2 Signal detected in Plot 5.3.4.2.2



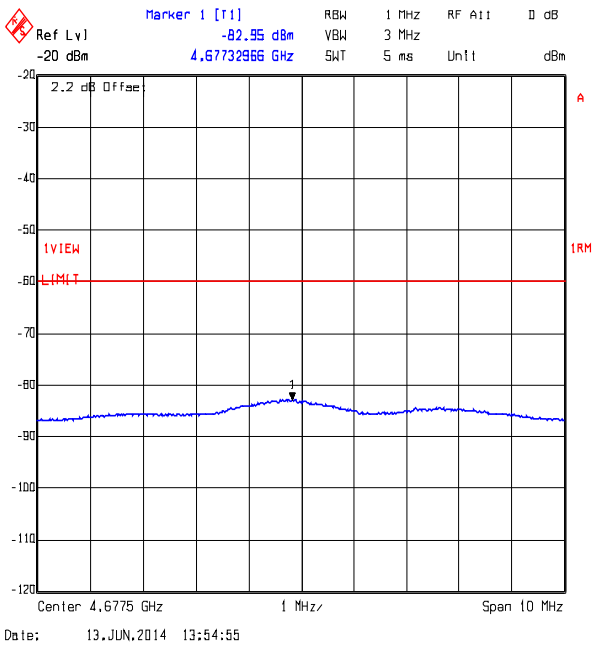
Plot 5.3.4.2.5. Conducted Spurious Emissions for HB, 2338.755 MHz, 10 MHz – 2.5 GHz



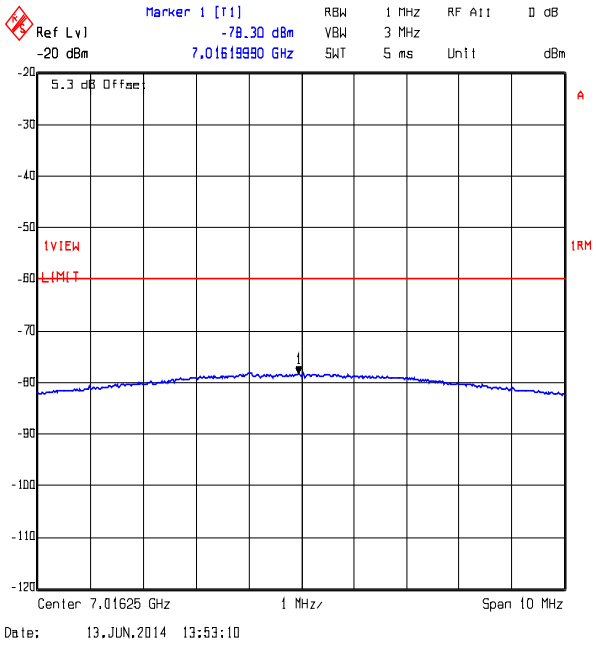
Plot 5.3.4.2.6. Conducted Spurious Emissions for HB, 2338.755 MHz, 2.5 GHz – 25 GHz



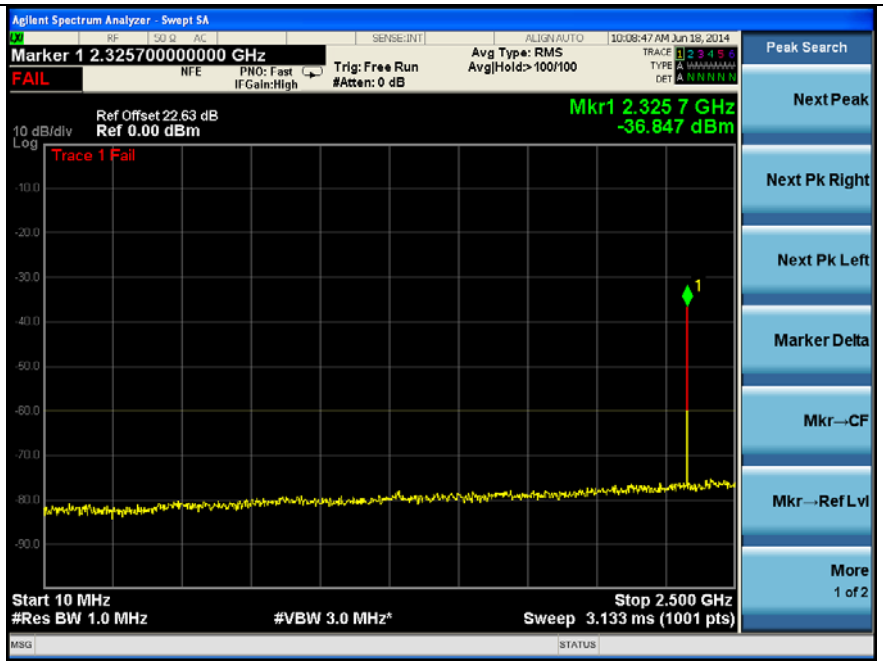
Plot 5.3.4.2.7. Conducted Spurious Emissions for HB, 2338.755 MHz, at Marker 1 Signal detected in Plot 5.3.4.2.6



Plot 5.3.4.2.8. Conducted Spurious Emissions for HB, 2338.755 MHz, at Marker 2 Signal detected in Plot 5.3.4.2.6



Plot 5.3.4.2.9. Conducted Spurious Emissions for LB Diversity, 2326.256040 MHz, 10 MHz – 2.5 GHz



Plot 5.3.4.2.10. Conducted Spurious Emissions for LB Diversity, 2326.256040 MHz, 2.5 GHz – 25 GHz

5.4. TRANSMITTER SPURIOUS/HARMONIC RADIATED EMISSIONS [§§ 2.1053, 2.1057 & 25.202(h)(1)]

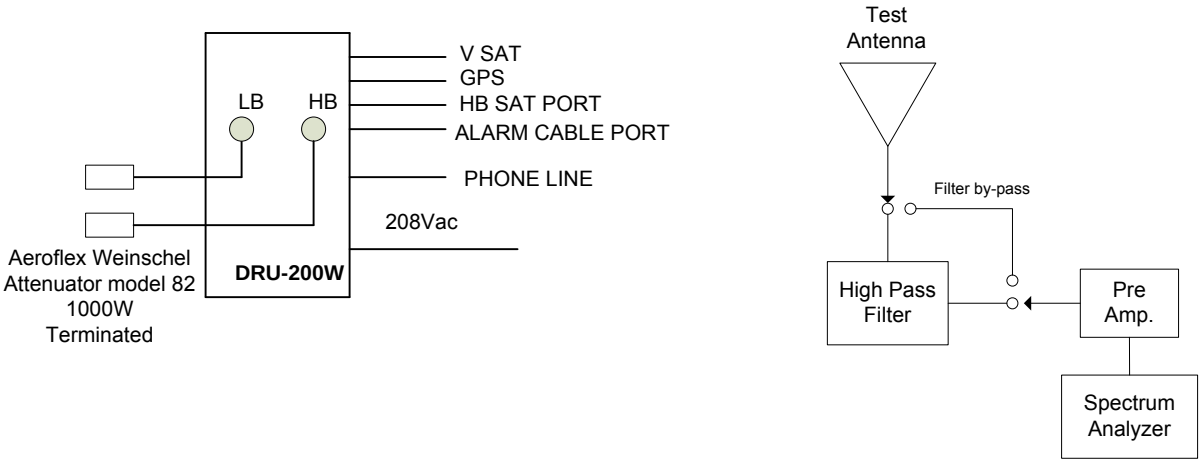
5.4.1. Limits

§25.202(h)(1) Any SDARS terrestrial repeater operating at a power level greater than 2-watt average EIRP is required to attenuate its out-of-band emissions below the transmitter power P by a factor of not less than 90 + 10 log (P) dB in a 1-megahertz bandwidth outside the 2320-2345 MHz band, where P is average transmitter output power in watts.

5.4.2. Method of Measurements

FCC KDB Publication 971168 D01, Sections 5.4.1 and 7.0

5.4.3. Test Arrangement



5.4.4. Test Data

Remarks:

- Initially, the test setup was at 3m distance; but the limit at 3m was below the noise floor. Therefore, the receiving antenna had to move closer at 0.5m, in order to get the limit over the noise floor; and hand measurements were recorded inside the chamber with a spectrum analyzer. The second and third harmonics were detected when the transmitter was turned on. The setup pictures were taken at 3m distance.

- The emissions were scanned from 30 MHz to 10th harmonics; all spurious emissions that are in excess of 20dB below the specified limit shall be recorded.

Test Frequency (MHz):	2326.250, LB					
Limit (dBm):	-60					
Frequency (MHz)	**E-Field at 0.5 m (dBµV/m)**	**EMI Detector (Peak/QP/Avg)**	**Antenna Polarization (H/V)**	***EIRP (dBm)**	**Limit (dBm)**	**Margin (dBm)**
4652.500	48.78	Avg	V	-62.04	-60	-2.04
4652.500	48.09	Avg	H	-62.73	-60	-2.73
6978.750	49.14	Avg	V	-61.68	-60	-1.68
6978.750	50.16	Avg	H	-60.66	-60	-0.66
*EIRP(dBm) = E (dBµV/m) + 20log(D) - 104.8; where D is the measurement distance in meters						

Test Frequency (MHz):	2338.755, HB					
Limit (dBm):	-60					
Frequency (MHz)	**E-Field at 0.5 m (dBµV/m)**	**EMI Detector (Peak/QP/Avg)**	**Antenna Polarization (H/V)**	***EIRP (dBm)**	**Limit (dBm)**	**Margin (dBm)**
4677.510	46.95	Avg	V	-63.87	-60	-3.87
4677.510	48.26	Avg	H	-62.56	-60	-2.56
7016.265	47.53	Avg	V	-63.29	-60	-3.29
7016.265	47.28	Avg	H	-63.54	-60	-3.54
*EIRP(dBm) = E (dBµV/m) + 20log(D) - 104.8; where D is the measurement distance in meters						

5.5. FREQUECNY STABILITY [§§ 2.1055 & 25.202]

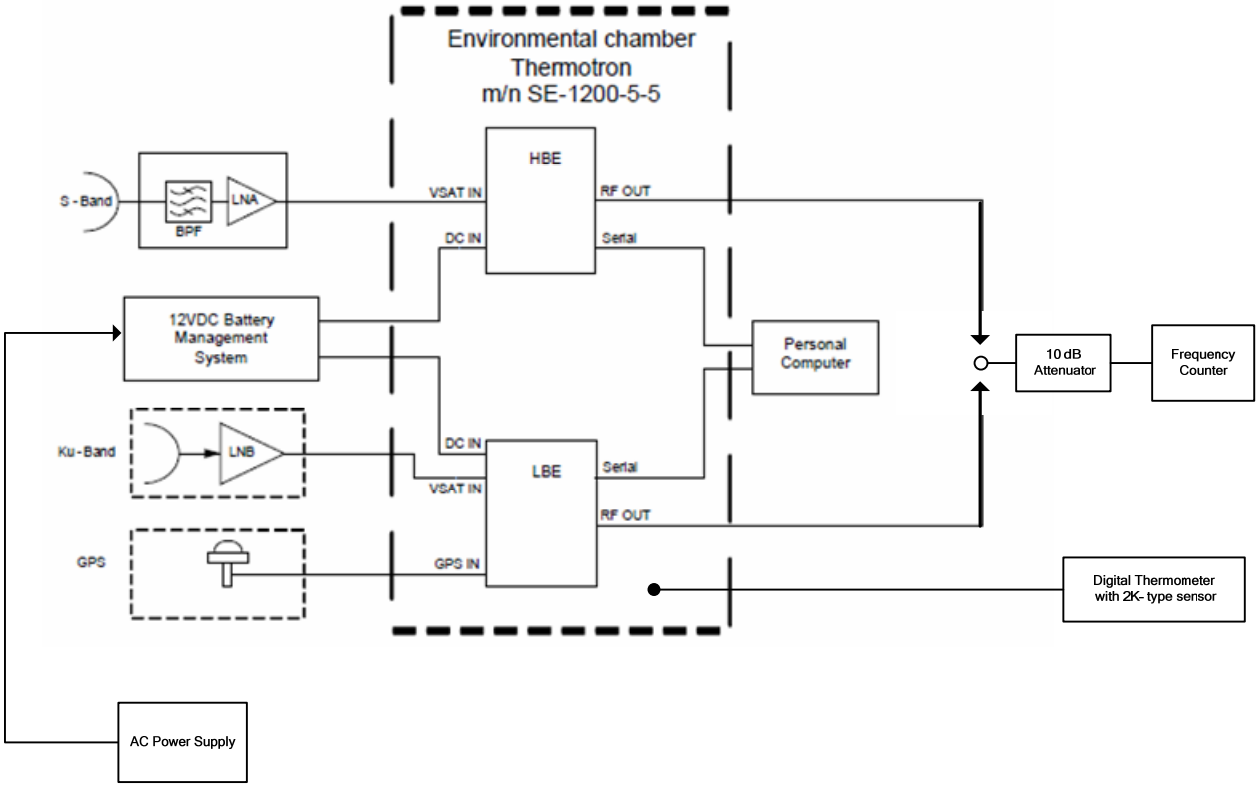
5.5.1. Limit(s)

§ 25.202(d) Frequency tolerance, Earth stations. The carrier frequency of each earth station transmitter authorized in these services shall be maintained within 0.001 percent of the reference frequency.

5.5.2. Method of Measurements

FCC KDB Publication 971168 D01, Section 9.0 or 47 CFR 2.1055

5.5.3. Test Arrangement



5.5.4. Test Data

Remarks:

Test was conducted at Unique Broadband Systems Ltd. facility.

It is impracticable to subject the complete EUT to this test because of its physical dimensions, only its frequency determining and stabilizing portions were subject to this test. The Low Band Exciter (LBE) and High Band Exciter (HBE) modules were tested to demonstrate compliance to this requirement.

Manufacturer's declared ambient temperature for the DRU 200 is -20C to +55C. The ambient temperature correspondent inside of the electronics compartment (the hosts of the Exciters) is -10C to +65C.

The manufacturer's declared operating temperature range of LBE and HBE is -10 °C to +65 °C, the LBE and HBE will cease to function outside of the upper and lower temperatures declared by the manufacturer. Testing was conducted within the declared operating temperatures.

Test Unit:	LBE
Center Frequency:	2326.250 MHz
Full Power Level:	200 W
Frequency Tolerance Limit (Worst Case):	0.001 % or 23263 Hz
Max. Frequency Tolerance Measured:	+18 Hz or 0.0000008 %
Input Voltage Rating:	208 VAC

Ambient Temperature (°C)	**Frequency Drift (Hz)**		
	Supply Voltage 208 VAC (Nominal)	**Supply Voltage 176.8 V AC (85% of Nominal)**	**Supply Voltage 239.2 VAC (115% of Nominal)**
-10	+8	--	--
0	+16	--	--
+10	+8	--	--
+20	+8	+8	+7
+30	+18	--	--
+40	+6	--	--
+50	+8	--	--
+60	+18	--	--
+65	+10	--	--

Test Unit:	HBE
Center Frequency:	2338.755 MHz
Full Power Level:	200 W
Frequency Tolerance Limit (Worst Case):	0.001 % or 23388 Hz
Max. Frequency Tolerance Measured:	+8 Hz or 0.0000003 %
Input Voltage Rating:	208 VAC

Ambient Temperature (°C)	**Frequency Drift (Hz)**		
	Supply Voltage 208 VAC (Nominal)	**Supply Voltage 176.8 V AC (85% of Nominal)**	**Supply Voltage 239.2 VAC (115% of Nominal)**
-10	-3	--	--
0	+3	--	--
+10	-5	--	--
+20	+3	+3	+8
+30	+6	--	--
+40	0	--	--
+50	+2	--	--
+60	+3	--	--
+65	+3	--	--

EXHIBIT 6. TEST EQUIPMENT LIST

Test Instruments	Manufacturer	Model No.	Serial No.	Operating Range	Cal. Due Date
Spectrum Analyzer	Rohde & Schwarz	FSP	100646	9 kHz–7 GHz	25 Sep 2014
Attenuator	Aeroflex Weinschel	82	-	DC–3 GHz	Cal on use
Attenuator	Weinschel	WA35-20-33	A164	DC–8.5 GHz	Cal on use
Attenuator	Weinschel	46-20-34	BS5681	DC–18 GHz	Cal on use
Band-Rejecter	Micro-Tronics	BRM50710	001	Cut off 2.3-2.4 GHz	Cal on use
Spectrum Analyzer	Rohde & Schwarz	FSEK30	100077	20Hz–40 GHz	08 Nov 2014
T Splitter	UBS	-	-	Cut off 2.3-2.4 GHz	Cal on use
RF Amplifier	Hewlett Packard	84498	3008A00769	1 – 26.5 GHz	19 Jun 2015
Biconi-Log Antenna	ETS Lindgren	3142B	1575	26 – 3000 MHz	14 Apr 2015
Horn Antenna	ETS Lindgren	3115	5061	1 -18 GHz	08 Oct 2014
Horn Antenna	ETS Lindgren	3160-09	00118385	18 -26.5 GHz	30 Jul 2014
Horn Antenna	ETS Lindgren	3160-10	00102686	26.5 -40 GHz	30 Jul 2014
High Pass Filter	K & L	11SH10-4000/T12000	4	Cut off 2400 MHz	Cal on use
Power meter	Hewlett Packard	436A	2016A07747	10 MHz–18 GHz	12 Feb 2015
Attenuator	MA-COM	3082-6193-10	-	DC–18 GHz	Cal on use
DC Block	Hewlett Packard	11742A	12460	0.045–26.5 GHz	Cal on use
Attenuator (10dB)	Aeroflex/Weinschel	46-10-34	BS4336	DC-18 GHz	Cal on use
Environmental Chamber	THERMOTROW	SE-1200-5-5	26512	180 °C to -40 °C	Cal on use
Power Supply	ELGAR	EW3001-1	9947100118	0-300 VAC, 3000 VA	Cal on use
Frequency Counter	EIP	545A	2683	10Hz-18 GHz	07 Apr 2015
Digital Thermometer	Extech	Easyview 15	30400781	K-type sensor	*16 May 2014
PXA Signal Analyzer	Agilent	N9030A-526	MY49430220	3 Hz - 26.5 GHz	24 Jan 2015

* This equipment was used on February 25, 2014.

EXHIBIT 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4-2 @ IEC:2003 and JCGM 100:2008 (GUM 1995) – Guide to the Expression of Uncertainty in Measurement.

7.1. LINE CONDUCTED EMISSION MEASUREMENT UNCERTAINTY

	Line Conducted Emission Measurement Uncertainty (9 kHz – 30 MHz):	**Measured**	**Limit**
u_c	**Combined standard uncertainty:** $u_c(y) = \sqrt{\sum_{I=1}^{m} u_i^2(y)}$	**± 1.44**	**± 1.8**
U	**Expanded uncertainty U:** $U = 2u_c(y)$	**± 2.89**	**± 3.6**

7.2. RADIATED EMISSION MEASUREMENT UNCERTAINTY

	Radiated Emission Measurement Uncertainty @ 3m, Horizontal (30-1000 MHz):	**Measured (dB)**	**Limit (dB)**
u_c	**Combined standard uncertainty:** $u_c(y) = \sqrt{\sum_{I=1}^{m} u_i^2(y)}$	**± 2.39**	**± 2.6**
U	**Expanded uncertainty U:** $U = 2u_c(y)$	**± 4.79**	**± 5.2**

	Radiated Emission Measurement Uncertainty @ 3m, Vertical (30-1000 MHz):	**Measured (dB)**	**Limit (dB)**
u_c	**Combined standard uncertainty:** $u_c(y) = \sqrt{\sum_{I=1}^{m} u_i^2(y)}$	**± 2.39**	**± 2.6**
U	**Expanded uncertainty U:** $U = 2u_c(y)$	**± 4.78**	**± 5.2**

	Radiated Emission Measurement Uncertainty @ 3 m, Horizontal & Vertical (1 – 18 GHz):	**Measured (dB)**	**Limit (dB)**
u_c	**Combined standard uncertainty:** $u_c(y) = \sqrt{\sum_{I=1}^{m} u_i^2(y)}$	**± 1.87**	**Under consideration**
U	**Expanded uncertainty U:** $U = 2u_c(y)$	**± 3.75**	**Under consideration**