

Certification Test Report

**FCC ID: PR6IFB
IC: 12755A-IFB**

**FCC Rule Part: 15.247
IC Radio Standards Specification: RSS-210**

ACS Report Number: 15-2006.W06.1A

**Applicant: Zaxcom, Inc.
Model(s): IFB200**

**Test Begin Date: February 17, 2015
Test End Date: April 20, 2015**

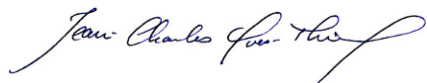
Report Issue Date: May 7, 2015



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER AT-1533

This report must not be used by the client to claim product certification, approval, or endorsement by ANAB, ANSI, or any agency of the Federal Government.

Project Manager:



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Reviewed by:



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This report contains 30 pages

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1 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Industry Canada's Radio Standards Specification RSS-210.

1.2 Applicant Information

Zaxcom Inc.
230 West Parkway Unit 9
Pompton Plains, NJ 0744

1.3 Product Description

This device is a Digital Signal Processor (DSP) based, Gaussian Minimum Shift Keying, Direct Sequence Spread Spectrum transceiver for use in professional wireless audio applications.

Technical Details

Frequency Range: 2403 MHz - 2473 MHz
Number of Channels: 71
Channel Separation: 1 MHz
Modulations: DSSS
Antenna Type/Gain: 1/4 wave whip antenna, 2.2 dBi
Input Power: 12 VDC (battery)

Model Number: IFB200

Test Sample Serial Number(s): ACS#1

Test Sample Condition: The equipment was provided in good condition without any physical damage.

1.4 Test Methodology and Considerations

The EUT was evaluated for radiated emissions and RF conducted measurements using a software power setting of 5.

The unit was evaluated for radiated emissions in the orientation of typical installation.

The unit is battery powered only with no provision for connection to the AC Mains. The unit is exempted from compliance to the power line conducted emissions requirements.

The unit was provided with a standard SMA connector for the purpose of testing. In order to meet the radiated emissions requirements, the EUT was modified with RF absorbing material (Cuming Microwave Part#: C-RAM LF-75-W) over the PCB and underneath the enclosure.

The EUT was also evaluated for unintentional emissions. The results are documented separately in a verification test report.

2 TEST FACILITIES

2.1 Location

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions, Inc.
3998 FAU Blvd, Suite 310
Boca Raton, Florida 33431
Phone: (561) 961-5585
Fax: (561) 961-5587
www.acstestlab.com

FCC Test Firm Registration #: 475089
Industry Canada Lab Code: 4175C

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by ANSI-ASQ National Accreditation Board under their ANAB program and has been issued certificate number AT-1533 in recognition of this accreditation. Unless otherwise specified, all test methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

2.3 Radiated & Conducted Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The EMC radiated test facility consists of an RF-shielded enclosure. The interior dimensions of the indoor semi-anechoic chamber are approximately 48 feet (14.6 m) long by 36 feet (10.8 m) wide by 24 feet (7.3 m) high and consist of rigid, 1/8 inch (0.32 cm) steel-clad, wood core modular panels with steel framing. In the shielded enclosure, the faces of the panels are galvanized and the chamber is self-supporting. 8-foot RF absorbing cones are installed on 4 walls and the ceiling. The steel-clad ground plane is covered with vinyl floor.

The turntable is driven by pneumatic motor, which is capable of supporting a 2000 lb. load. The turntable is flushed with the chamber floor which it is connected to, around its circumference, with a continuous metallic loaded spring. An EMCO Model 1050 Multi-device Controller controls the turntable position.

A pneumatic motor is used to control antenna polarizations and height relative to the ground. The height information is displayed on the control unit EMCO Model 1050.

The control room is an RF shielded enclosure attached to the semi-anechoic chamber with two bulkhead panels for connecting RF, and control cables. The dimension of the room is 7.3 m x 4.9 m x 3 m high and the entrance doors of both control and conducted rooms are 3 feet (0.91 m) by 7 feet (2.13 m).

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3.1-1 below:

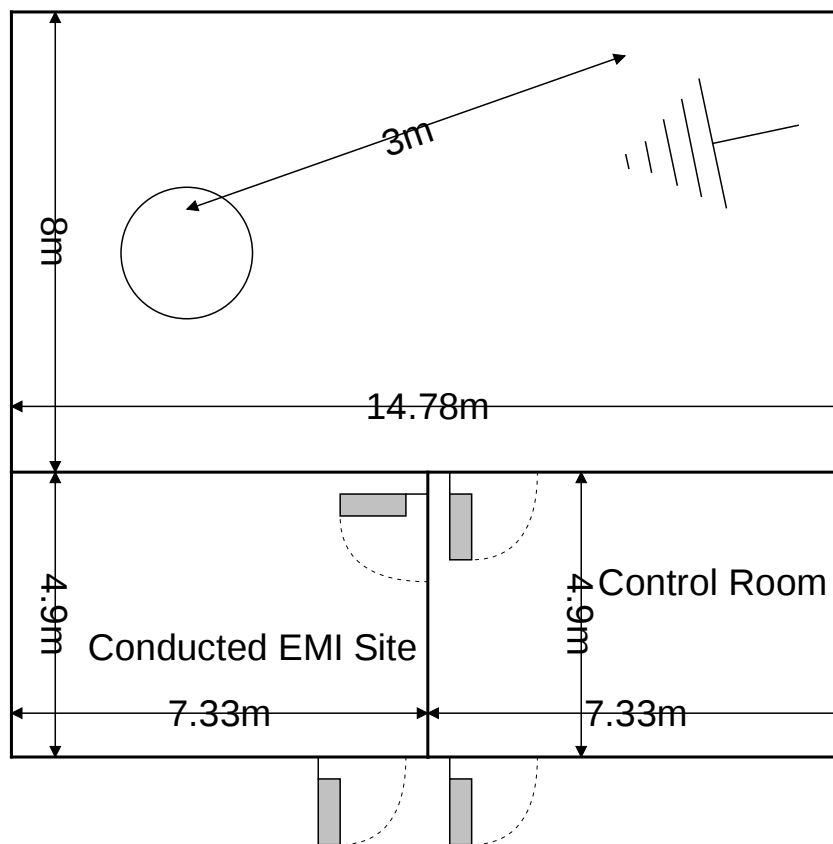


Figure 2.3.1-1: Semi-Anechoic Chamber Test Site

2.3.2 Conducted Emissions Test Site Description

The dimensions of the shielded conducted room are $7.3 \times 4.9 \times 3 \text{ m}^3$. As per ANSI C63.4 2009 requirements, the data were taken using two LISNs; a Solar Model 8028-50 $50 \Omega/50 \mu\text{H}$ and an EMCO Model 3825, which are installed as shown in Photograph 3. For evaluations requiring 220 V, 50 Hz, a Polarad LISN (S/N 879341/048) is used in conjunction with a 1 kVA, 50 Hz/220 V EDGAR variable frequency generator, Model 1001B, to filter conducted noise from the generator.

A diagram of the room is shown below in figure 2.3.2-1:

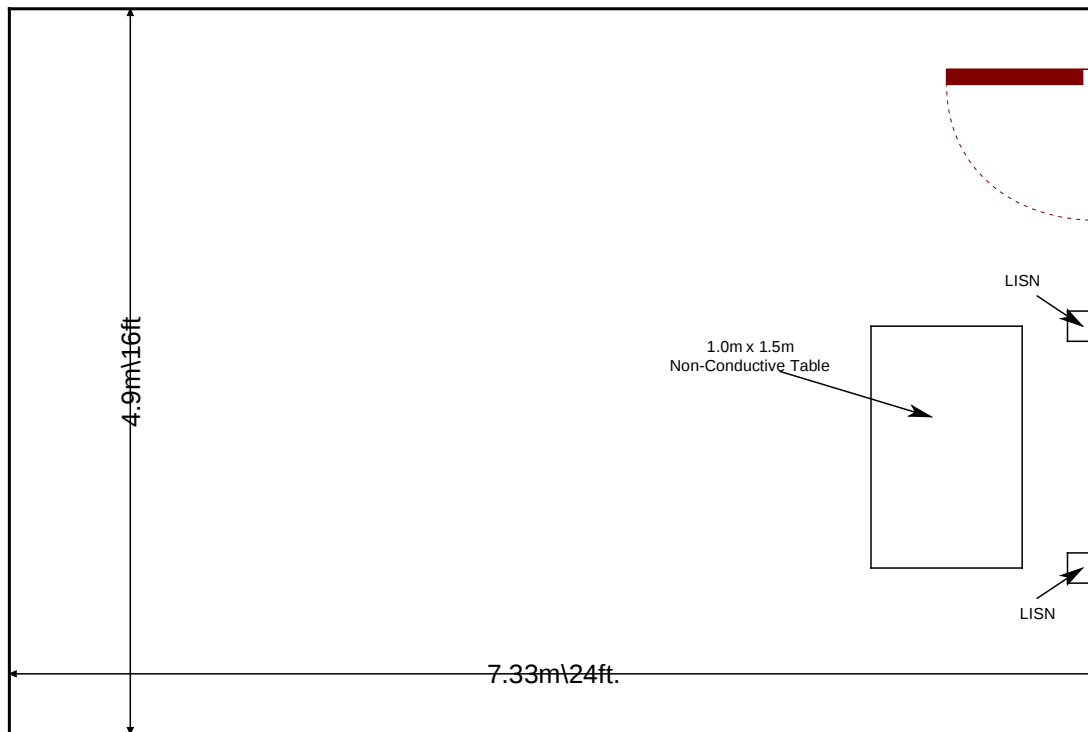


Figure 2.3.2-1: AC Mains Conducted EMI Site

3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.4-2009: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9 kHz to 40 GHz.
- ❖ ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.
- ❖ ANSI C63.10-2013¹: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2015.
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2015
- ❖ KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 – Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under 15.247, June 4, 2014.
- ❖ Industry Canada Radio Standards Specification: RSS-210 - Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8 December 2010.
- ❖ Industry Canada Radio Standards Specification: RSS-GEN – General Requirements for Compliance of Radio Apparatus, Issue 4, November 2014.

¹ ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices – Reference for Industry Canada only

4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

Table 4-1: Test Equipment

AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
78	EMCO	6502	Antennas	9104-2608	2/13/2015	2/13/2017
523	Agilent	E7405	Spectrum Analyzers	MY45103293	12/26/2014	12/26/2016
2002	EMCO	3108	Antennas	2147	11/22/2013	11/22/2015
2004	EMCO	3146	Antennas	1385	11/22/2013	11/22/2015
2006	EMCO	3115	Antennas	2573	4/24/2013	4/24/2015
2008	COM-Power	AH-826	Antennas	81009	NCR	NCR
2011	Hewlett-Packard	HP 8447D	Amplifiers	2443A03952	12/31/2014	12/31/2015
2037	ACS Boca	Chamber EMI Cable Set	Cable Set	2037	2/17/2015	2/17/2016
2044	QMI	N/A	Cables	2044	12/31/2014	12/31/2015
2070	Mini Circuits	VHF-8400+	Filter	2070	12/31/2014	12/31/2015
2072	Mini Circuits	VHF-3100+	Filter	30737	12/31/2014	12/31/2015
2082	Teledyne Storm Products	90-010-048	Cables	2082	5/8/2014	5/8/2015
2086	Merrimac	FAN-6-10K	Attenuators	23148-83-1	12/31/2014	12/31/2015
2089	Agilent Technologies, Inc.	83017A	Amplifiers	3123A00214	12/12/2014	12/12/2015
2095	ETS Lindgren	TILE4! - Version 4.2.A	Software	85242	NCR	NCR
2111	Aeroflex Inmet	40AH2W-20	Attenuator	2111	7/25/2014	7/25/2015
RE619	Rhode & Schwarz	ESU	Spectrum Analyzers	1302.6005K26 Ser. 100190	11/5/2014	11/5/2016

NCR=No Calibration Required

5 SUPPORT EQUIPMENT

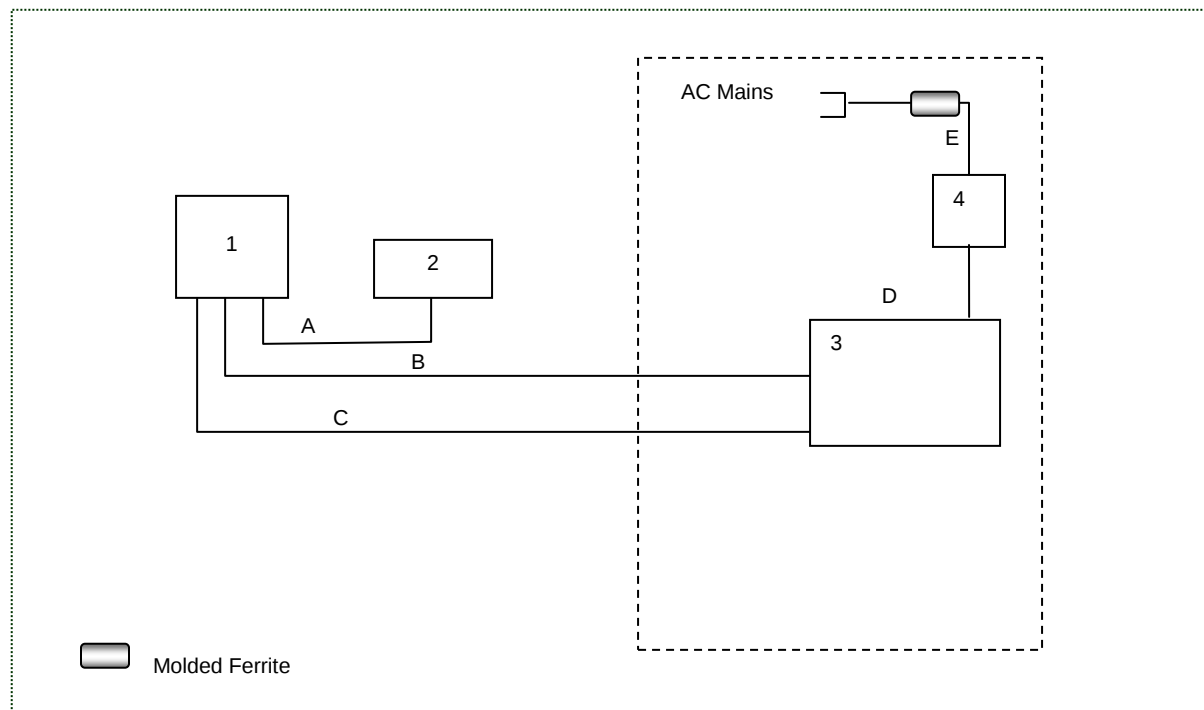
Table 5-1: EUT and Support Equipment

Item #	Type Device	Manufacturer	Model/Part #	Serial #
1	EUT	Zaxcom Inc	IFB200	N/A
2	12V DC Battery	Haze Battery Company	HZS	N/A
3	Mixer-Recorder-Transmitter	Zaxcom	Zaxcom Maxx	10142
4	Power Adapter	Globtek	GT-43006-4012-T2	4313

Table 5-2: Cable Description

Cable #	Cable Type	Length	Shield	Termination
A	2 wire power leads	0.50 m	No	Battery to EUT
B	Audio XLR cable	10 m	No	Zaxcom Maxx to EUT
C	RF coaxial cable	10 m	Yes	Zaxcom Maxx to EUT
D	Power cable	1.5 m	No	Maxx to AC Adapter
E	Power cord	1.8 m	No	Adapter to AC mains

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM



Note: The equipment within the dotted box was set outside of the test environment during the evaluation.

7 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Antenna Requirement – FCC: Section 15.203

Per the manufacturer manual, the equipment uses a reverse SMA antenna connector, thus meeting the requirements of FCC 15.203.

7.2 6 dB Bandwidth - FCC: Section 15.247(a)(2) 99% Bandwidth IC: RSS-210 A8.2(a)

7.2.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB Publication No. 558074 “Guidance for Performing Compliance Measurements on Digital Transmission Systems (47 CFR 15.247)” DTS 6-dB Signal Bandwidth Option 1. The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the entire emissions and >> RBW.

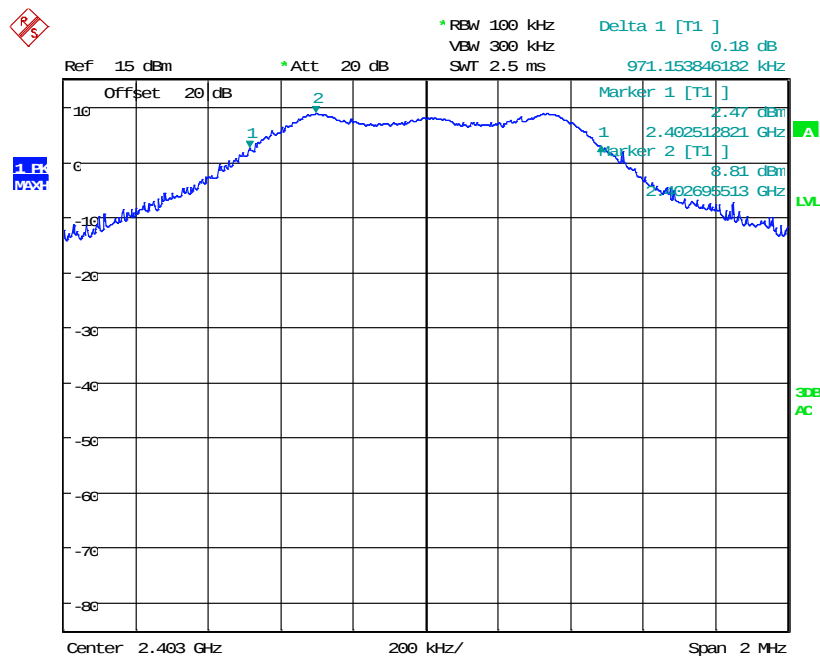
The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission. The RBW was set to 1% to 5% of the approximated bandwidth. The occupied 99% bandwidth was measured by using the automated OBW measurement function of the SA.

7.2.2 Measurement Results

Results are shown below.

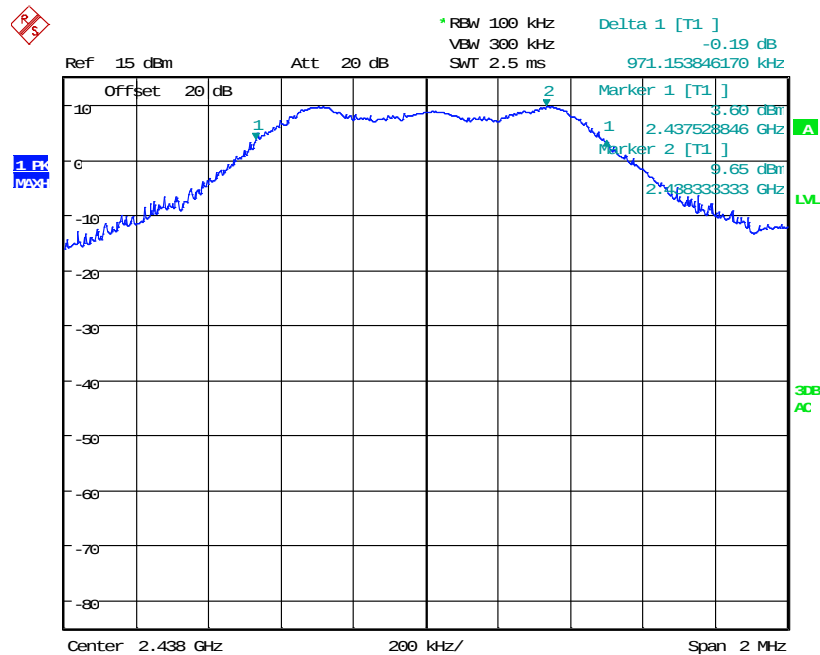
Table 7.2.2-1: 6dB / 99% Bandwidth

Frequency [MHz]	6dB Bandwidth [kHz]	99% Bandwidth (kHz)
2403	971.1538	1330.1282
2438	971.1538	1185.8974
2473	980.7692	1418.2692



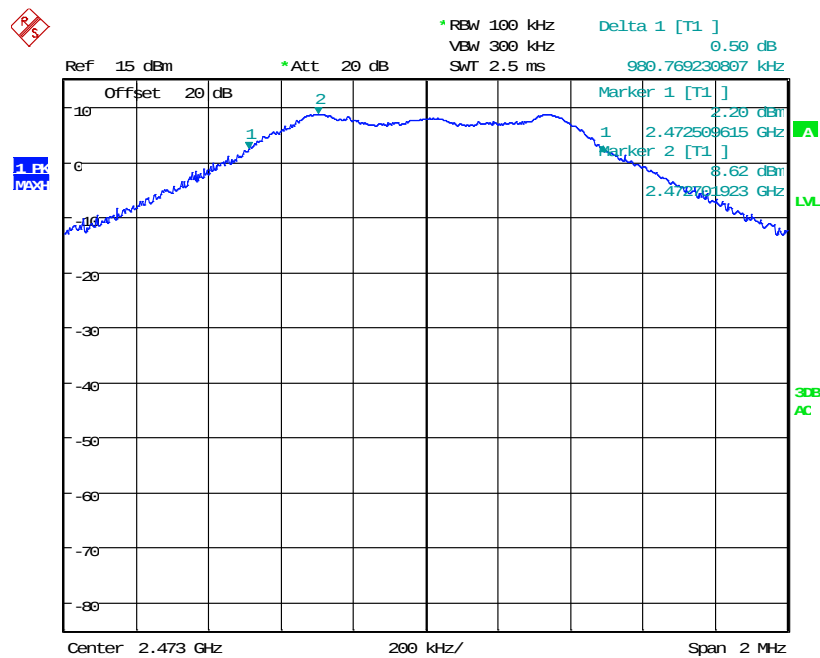
Date: 10.APR.2015 20:24:00

Figure 7.2.2-1: 6dB BW - Low Channel



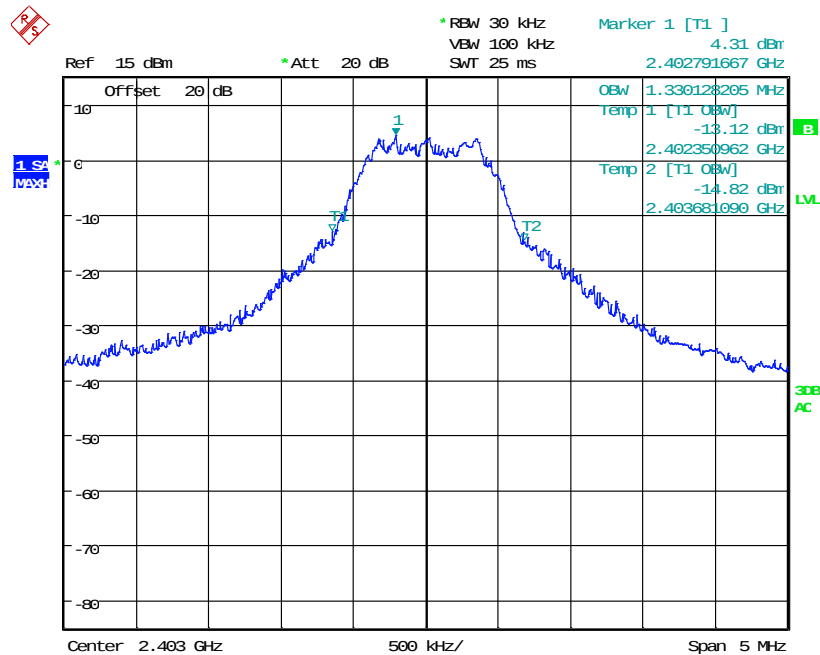
Date: 10.APR.2015 19:26:17

Figure 7.2.2-2: 6dB BW - Middle Channel



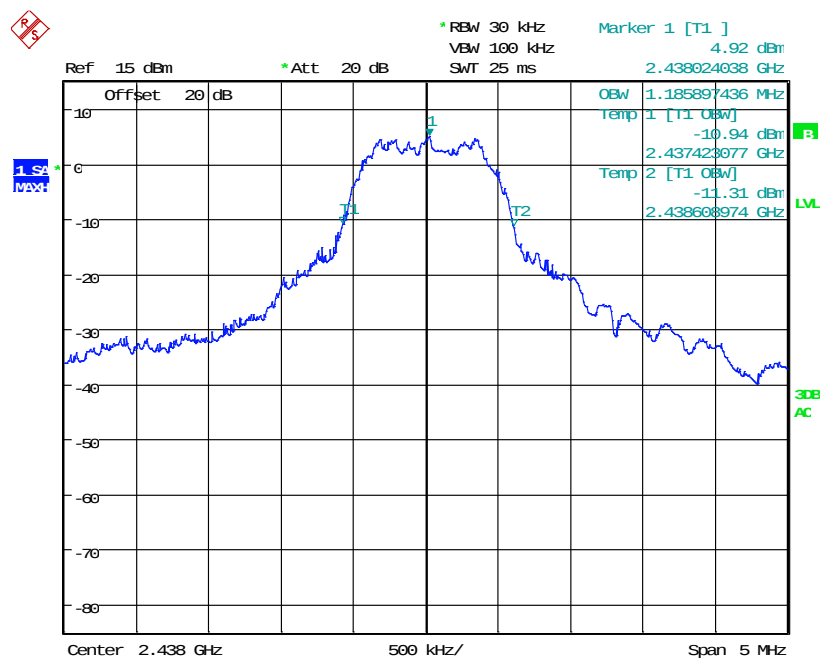
Date: 10.APR.2015 21:04:05

Figure 7.2.2-3: 6dB BW - High Channel



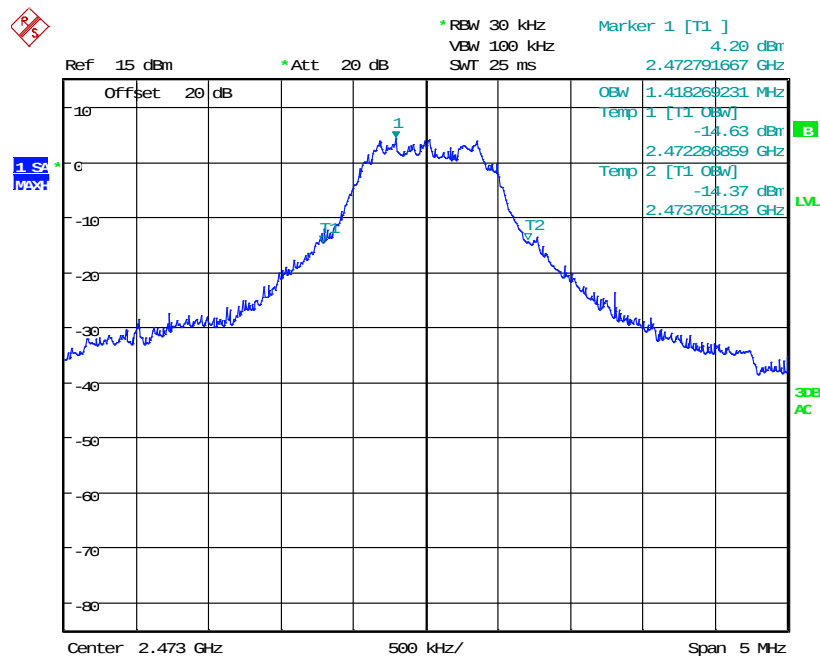
Date: 10.APR.2015 20:11:03

Figure 7.2.2-4: 99% OBW - Low Channel



Date: 10.APR.2015 19:35:03

Figure 7.2.2-5: 99% OBW - Middle Channel



Date: 10.APR.2015 21:12:06

Figure 7.2.2-6: 99% OBW - High Channel

7.3 Peak Output Power - FCC Section 15.247(b)(3) IC: RSS-210 A8.4(4)

7.3.1 Measurement Procedure (Conducted Method)

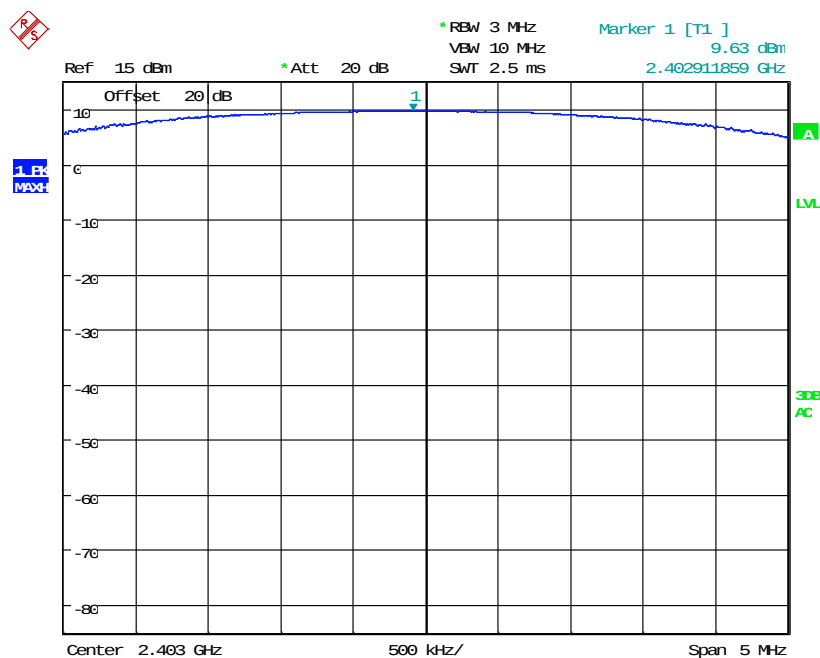
The Peak Output Power was measured in accordance with the FCC KDB Publication No. 558074 "Guidance for Performing Compliance Measurements on Digital Transmission Systems (47 CFR 15.247)" Section 9.1.2 Integrated Band Power Method. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer through suitable attenuation.

7.3.2 Measurement Results

Results are shown below.

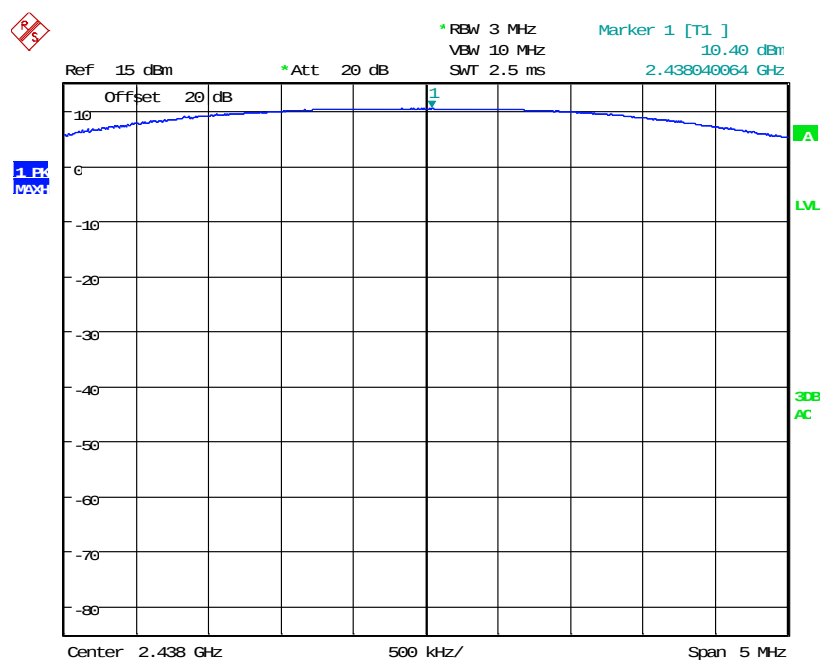
Table 7.3.2-1: RF Output Power

Frequency [MHz]	Level [dBm]
2403	9.63
2438	10.40
2473	9.57



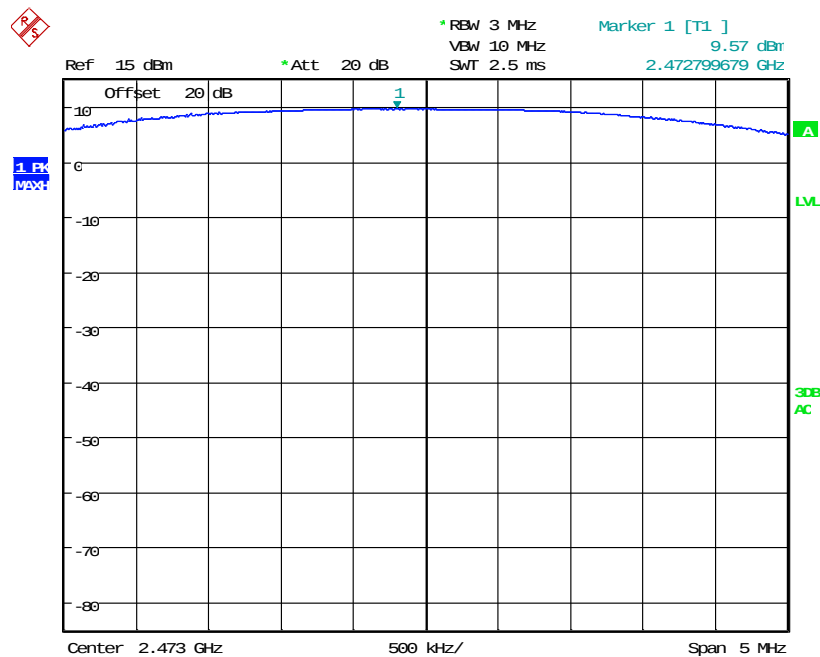
Date: 10.APR.2015 20:15:57

Figure 7.3.2-1: RF Output Power - Low Channel



Date: 10.APR.2015 19:40:14

Figure 7.3.2-2: RF Output Power - Middle Channel



Date: 10.APR.2015 21:07:13

Figure 7.3.2-3: RF Output Power - High Channel

7.4 Band-Edge Compliance and Spurious Emissions-FCC 15.247(d) IC: RSS-210 A8.5

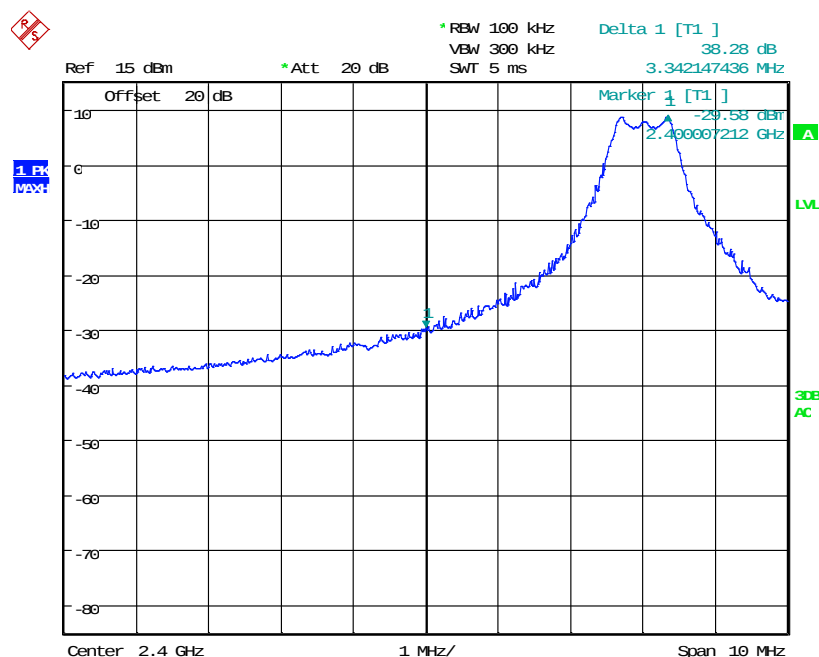
7.4.1 Band-Edge Compliance of RF Conducted Emissions

7.4.1.1 Measurement Procedure

The RF output port of the EUT was directly connected to the input of the spectrum analyzer via suitable attenuation. The EUT was investigated at the lowest and highest channel available to determine band-edge compliance. For each measurement the spectrum analyzer's RBW was set to 100 kHz, and the VBW was set to 300 kHz.

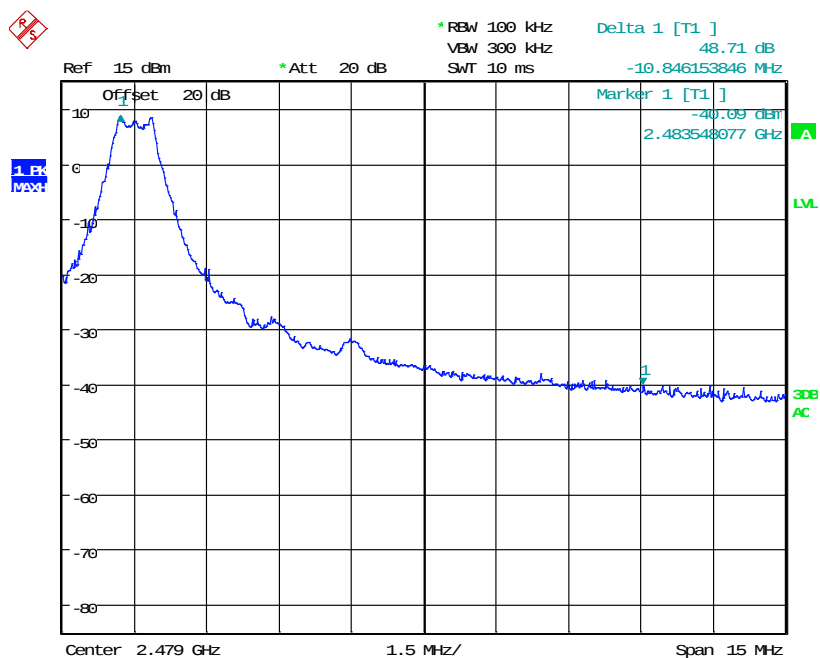
7.4.1.2 Measurement Results

Results are shown below.



Date: 10.APR.2015 20:47:02

Figure 7.4.1.2-1: Lower Band-edge



Date: 10.APR.2015 20:52:38

Figure 7.4.1.2-2: Upper Band-edge

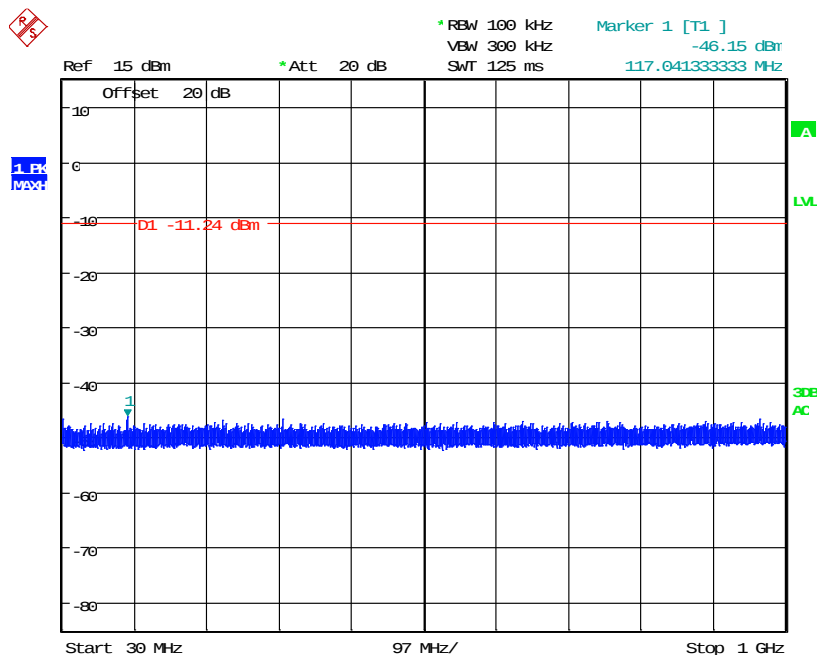
7.4.2 RF Conducted Spurious Emissions

7.4.2.1 Measurement Procedure

The RF Conducted Spurious Emissions were measured in accordance with the FCC KDB Publication No. 558074 "Guidance for Performing Compliance Measurements on Digital Transmission Systems (47 CFR 15.247)". The RF output port of the equipment under test was directly connected to the input of the spectrum analyzer. The EUT was investigated for conducted spurious emissions from 30 MHz to 26 GHz, 10 times the highest fundamental frequency. Measurements were made at the low, center and high channels of the EUT. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak Max Hold function of the analyzer was utilized. The reference level was determined by measuring the Peak PSD level in any 100 kHz bandwidth within the DTS channel bandwidth.

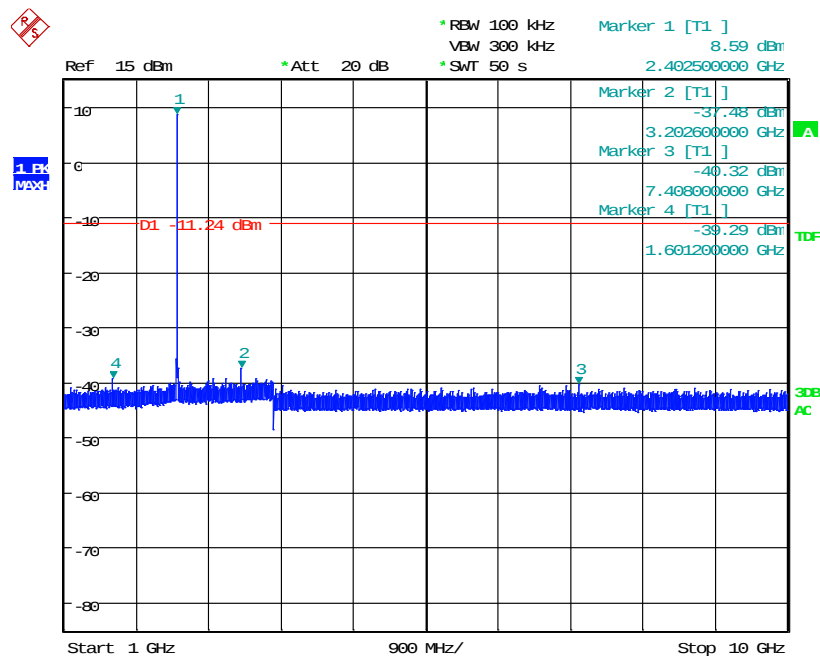
7.4.2.2 Measurement Results

Results are shown below.



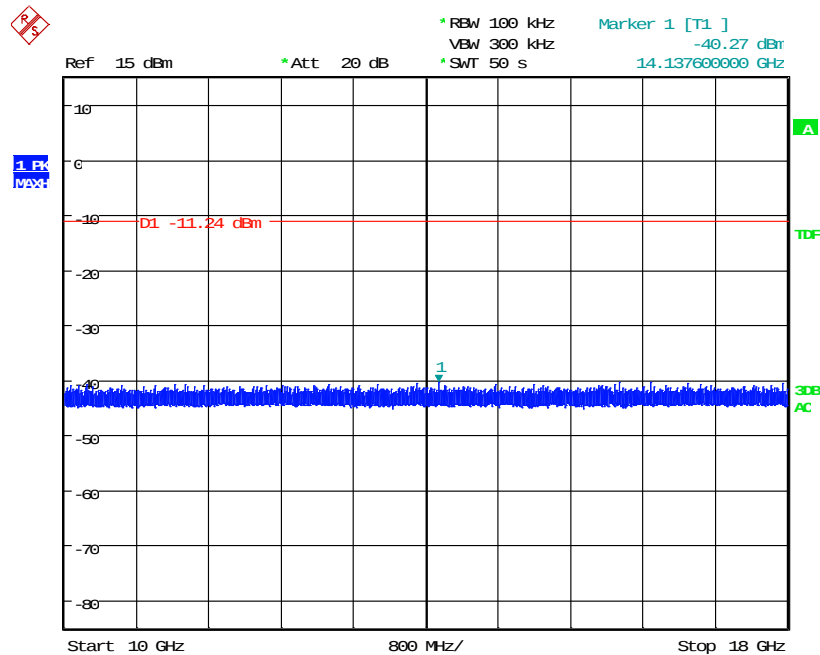
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Figure 7.4.2.2-1: 30 MHz – 1 GHz – Low Channel



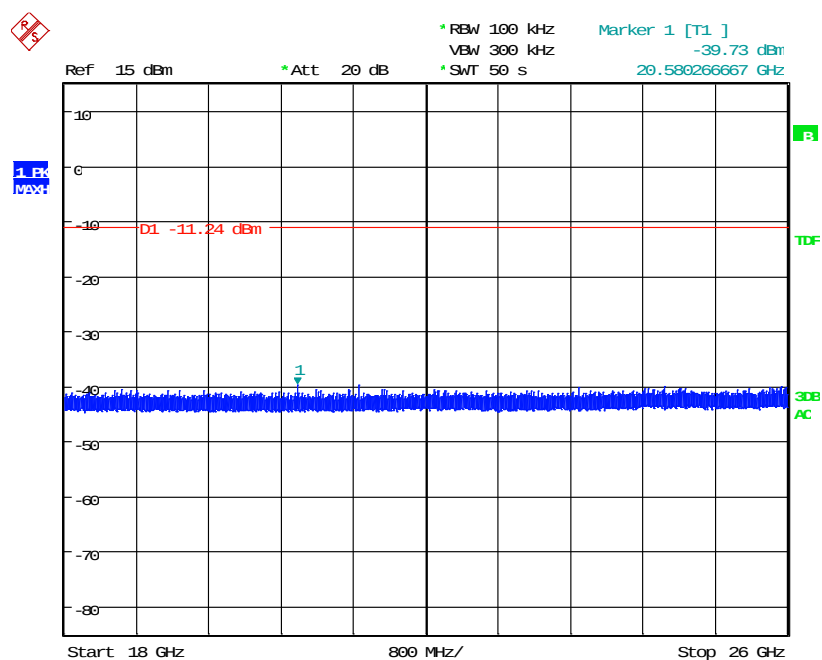
Date: 13.APR.2015 17:25:51

Figure 7.4.2.2-2: 1 GHz –10 GHz – Low Channel



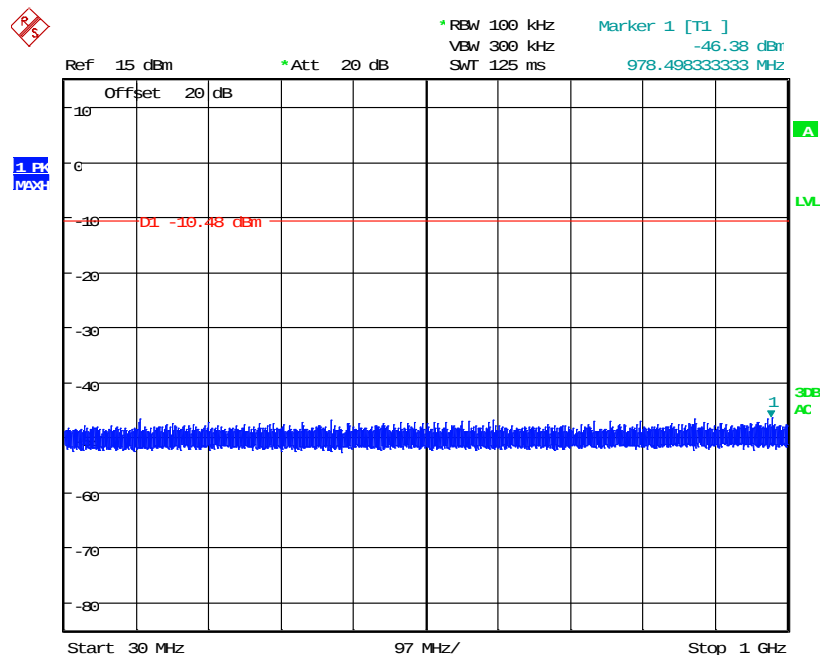
Date: 13.APR.2015 20:01:06

Figure 7.4.2.2-3: 10 GHz –18 GHz – Low Channel



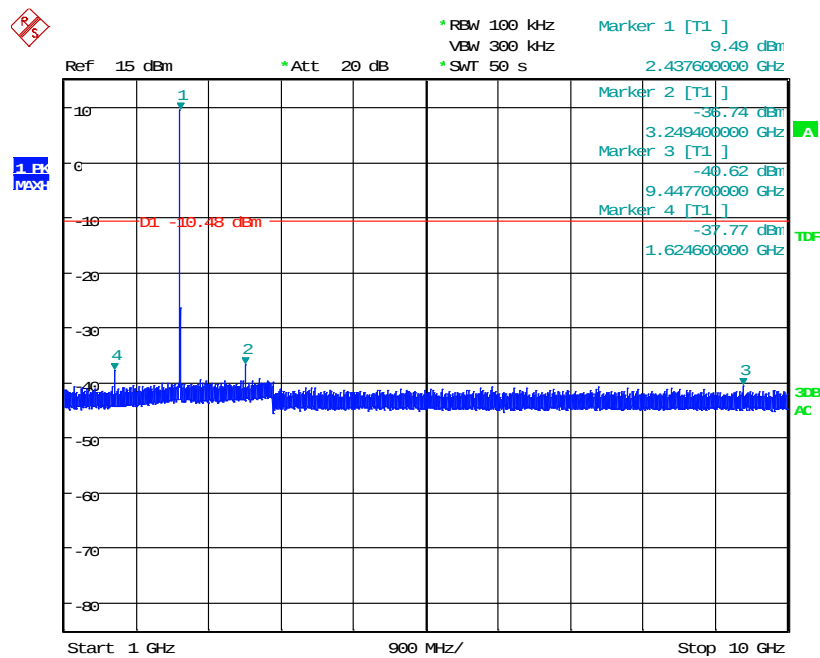
Date: 13.APR.2015 19:52:18

Figure 7.4.2.2-4: 18 GHz – 26 GHz – Low Channel



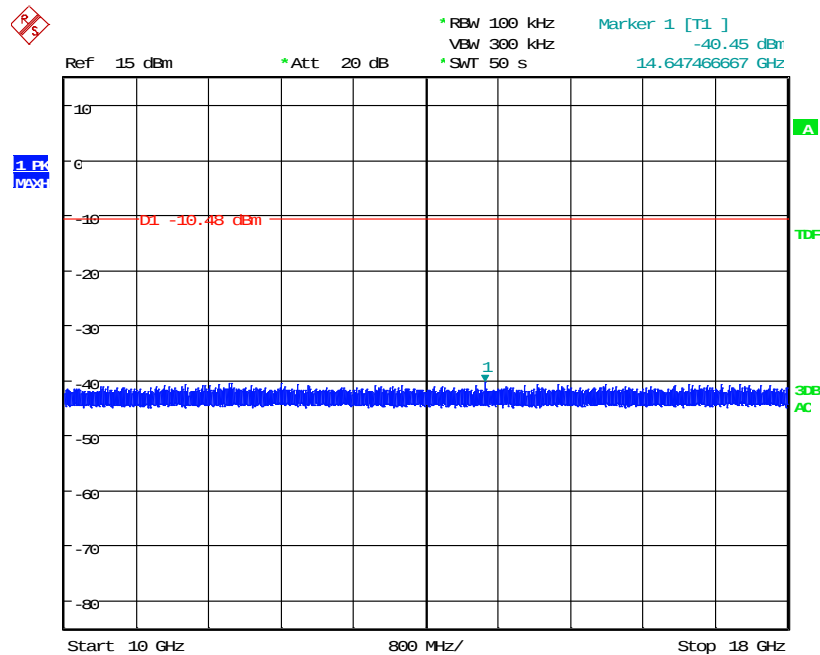
Date: 13.APR.2015 17:04:45

Figure 7.4.2.2-5: 30 MHz – 1 GHz – Middle Channel



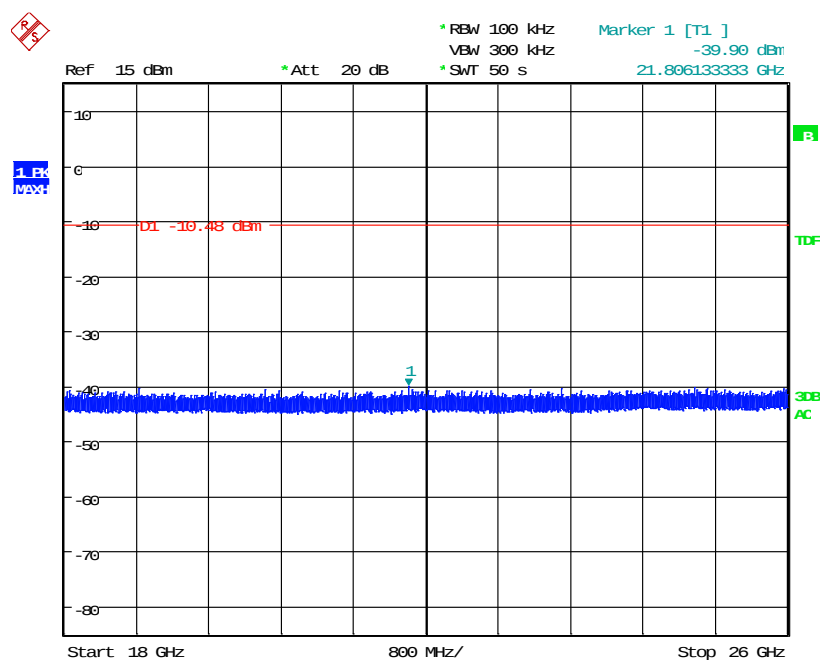
Date: 13.APR.2015 17:34:47

Figure 7.4.2.2-6: 1 GHz –10 GHz – Middle Channel



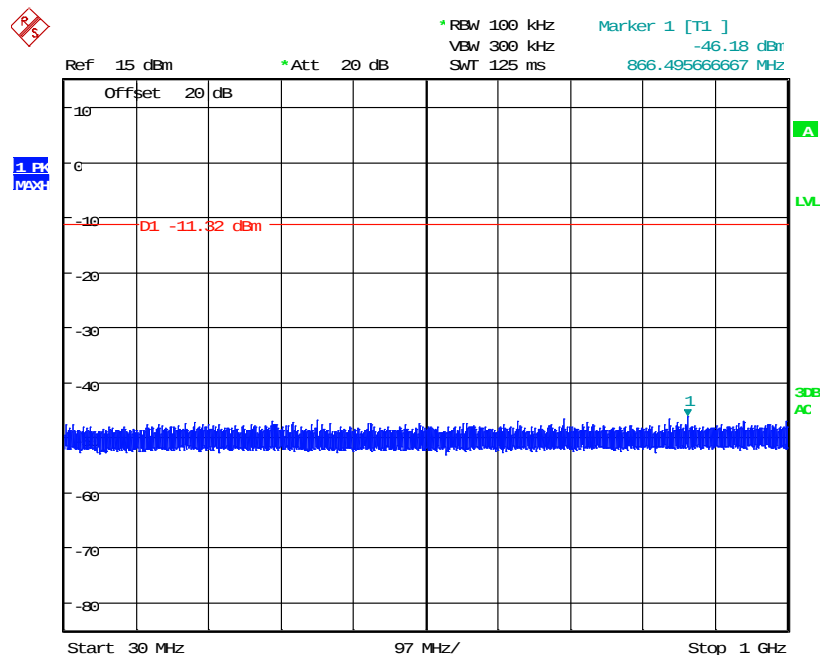
Date: 13.APR.2015 19:40:28

Figure 7.4.2.2-7: 10 GHz –18 GHz – Middle Channel



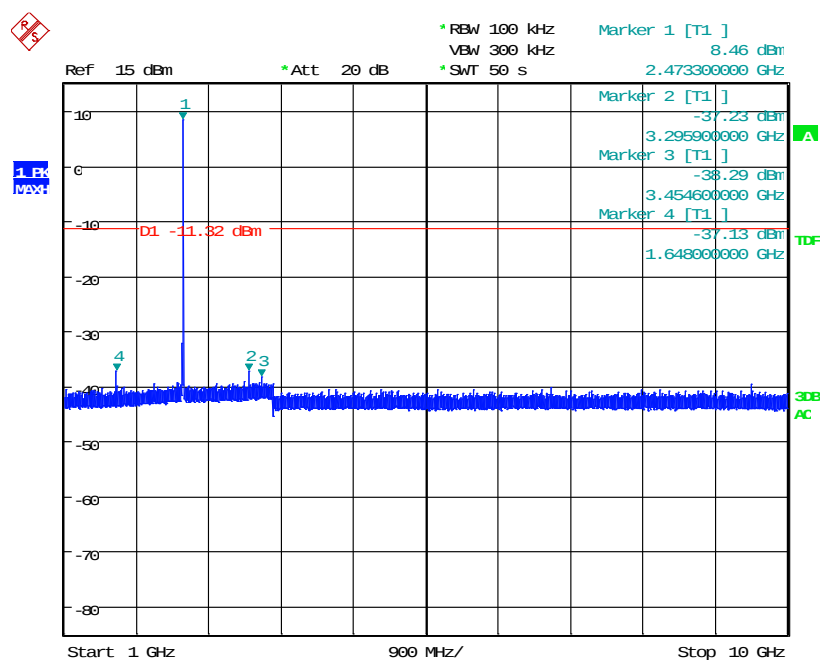
Date: 13.APR.2015 19:31:41

Figure 7.4.2.2-8: 18 GHz – 26 GHz – Middle Channel



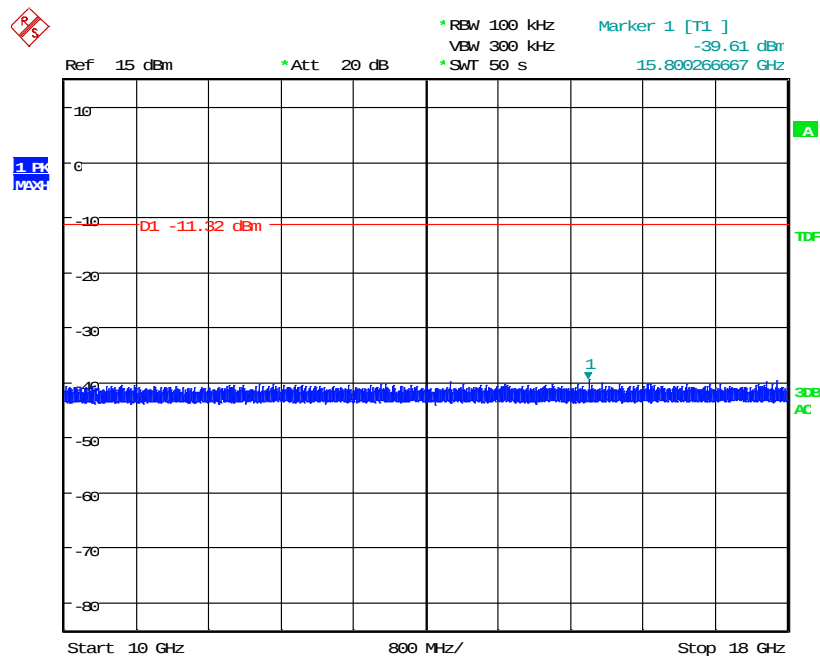
Date: 13.APR.2015 17:00:48

Figure 7.4.2.2-9: 30 MHz – 1 GHz – High Channel



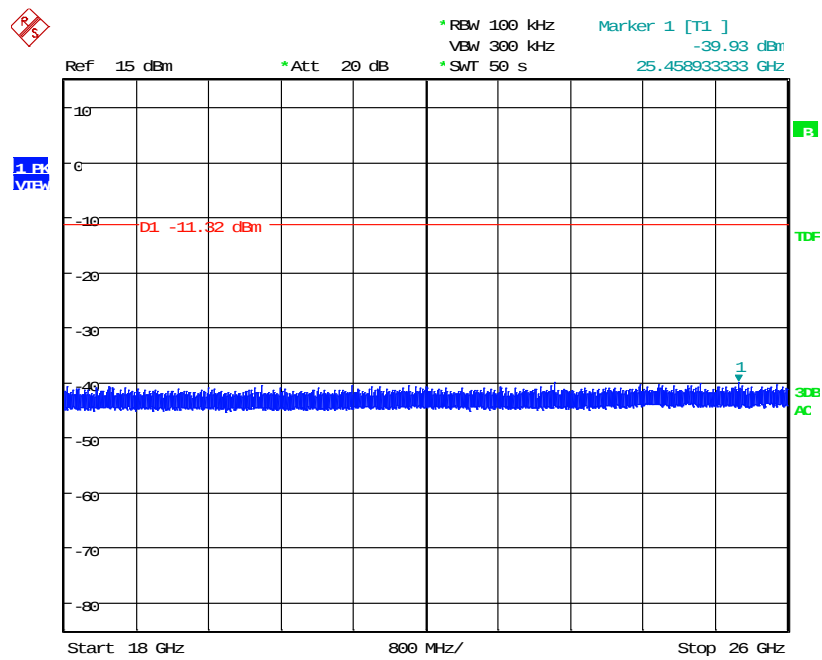
Date: 13.APR.2015 18:06:05

Figure 7.4.2.2-10: 1 GHz –10 GHz –High Channel



Date: 13.APR.2015 19:18:39

Figure 7.4.2.2-11: 10 GHz – 18 GHz –High Channel



Date: 13.APR.2015 18:22:48

Figure 7.4.2.2-12: 18 GHz – 26 GHz –High Channel

7.4.3 Radiated Spurious Emissions into Restricted Frequency Bands - FCC 15.205, 15.209; IC: RSS-210 2.2, RSS-Gen 8.9, 8.10

7.4.3.1 Measurement Procedure

Radiated emissions tests were made over the frequency range of 9 kHz to 26 GHz, 10 times the highest fundamental frequency. Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in section 15.209.

For measurements below 30 MHz, the receive antenna height was set to 1m and the EUT was rotated through 360 degrees. The resolution bandwidth was set to 200 Hz below 150 kHz and to 9 kHz above 150 kHz.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000 MHz, peak measurements are made with RBW of 1 MHz and VBW of 3 MHz. Average measurements are performed in the linear scale using VBW of 30 Hz over a 5 second sweep.

7.4.3.2 Measurement Results

Radiated band-edge and spurious emissions found in the restricted frequency bands of 9 kHz to 26 GHz are reported in the tables below.

Table 7.4.3.2-1: Emissions independent of the fundamental transmit frequency

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
108.2	54.58	48.31	H	-15.95	-----	32.36	-----	43.5	-----	11.1
108.2	55.25	51.87	V	-15.95	-----	35.92	-----	43.5	-----	7.6

Table 7.4.3.2-2: Radiated Spurious Emissions Tabulated Data

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
Low Channel = 2403 MHz										
1602.7	67.24	61.50	H	-12.07	55.17	49.43	74.0	54.0	18.8	4.6
1602.7	64.81	57.81	V	-12.07	52.74	45.74	74.0	54.0	21.3	8.3
2390	77.68	47.82	V	-7.86	69.82	39.96	74.0	54.0	4.2	14.0
4810	55.07	45.43	H	0.35	55.42	45.78	74.0	54.0	18.6	8.2
4810	55.11	45.64	V	0.35	55.46	45.99	74.0	54.0	18.5	8.0
Middle Channel = 2438 MHz										
1624.6	70.04	65.41	H	-11.93	58.11	53.48	74.0	54.0	15.9	0.5
1624.6	66.49	61.06	V	-11.93	54.56	49.13	74.0	54.0	19.4	4.9
4876	53.25	43.50	H	0.54	53.79	44.04	74.0	54.0	20.2	10.0
4876	53.21	43.16	V	0.54	53.75	43.70	74.0	54.0	20.3	10.3
High Channel = 2473 MHz										
1646.5	65.96	56.38	H	-11.79	54.17	44.59	74.0	54.0	19.8	9.4
1646.5	64.38	53.79	V	-11.79	52.59	42.00	74.0	54.0	21.4	12.0
2483.5	69.33	45.37	H	-7.47	61.86	37.90	74.0	54.0	12.1	16.1
2483.5	79.71	48.46	V	-7.47	72.24	40.99	74.0	54.0	1.8	13.0
4946	49.91	37.71	H	0.73	50.64	38.44	74.0	54.0	23.4	15.6
4946	51.51	40.56	V	0.73	52.24	41.29	74.0	54.0	21.8	12.7

Notes:

All emissions above 4946 MHz were attenuated below the limits and the noise floor of the measurement equipment.

7.4.3.3 Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF_T	=	Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
R_U	=	Uncorrected Reading
R_C	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
DC	=	Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: $67.24 + (-12.07) = 55.17 \text{ dB}\mu\text{V/m}$

Margin: $74 \text{ dB}\mu\text{V/m} - 55.17 \text{ dB}\mu\text{V/m} = 18.8 \text{ dB}$

Example Calculation: Average

Corrected Level: $61.5 + (-12.07) = 49.43 \text{ dB}\mu\text{V/m}$

Margin: $54 \text{ dB}\mu\text{V/m} - 49.43 \text{ dB}\mu\text{V/m} = 4.6 \text{ dB}$

7.5 Power Spectral Density - FCC Section 15.247(e) IC: RSS-210 A8.2(b)

7.5.1 PSD Measurement Procedure (Conducted Method)

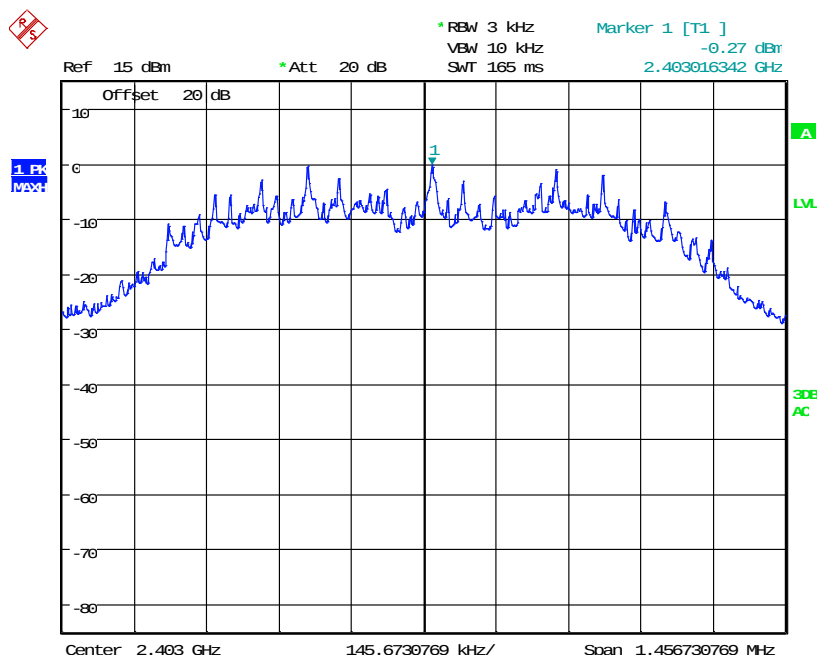
The power spectral density was measured in accordance with the FCC KDB Publication No. 558074 "Guidance for Performing Compliance Measurements on Digital Transmission Systems (47 CFR 15.247)" Section 10.2 Method PKPSD (peak PSD). The RF output port of the EUT was directly connected to the input of the spectrum analyzer. Offset values were input for cable and external attenuation. The spectrum analyzer RBW was set to 3 kHz and VBW 10 kHz. Span was adjusted to 1.5 times the 6 dB bandwidth and the sweep time was set to auto.

7.5.2 Measurement Results

Results are shown below.

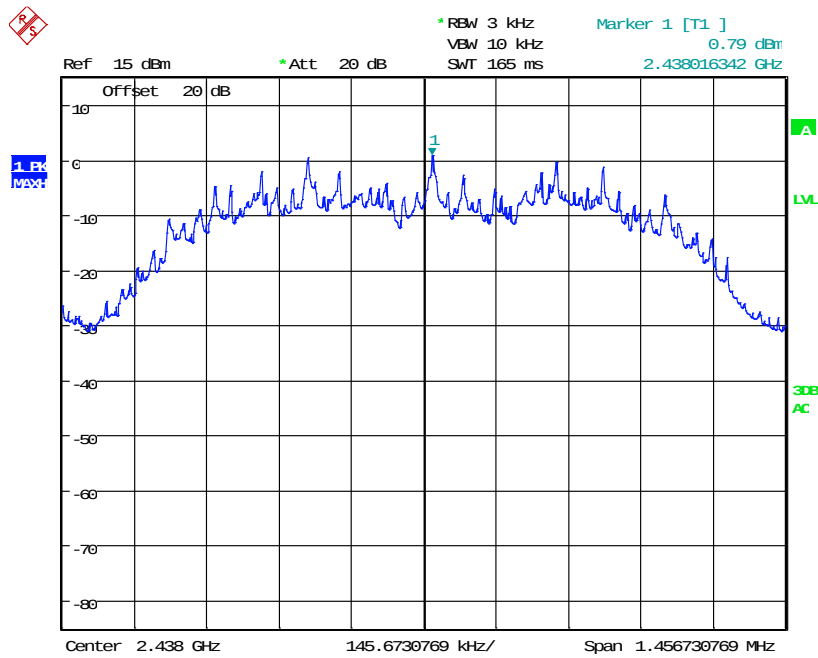
Table 7.5.2-1: Power Spectral Density

Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
2403	-0.27	8.0	8.27
2438	0.79	8.0	7.21
2473	-0.39	8.0	8.39



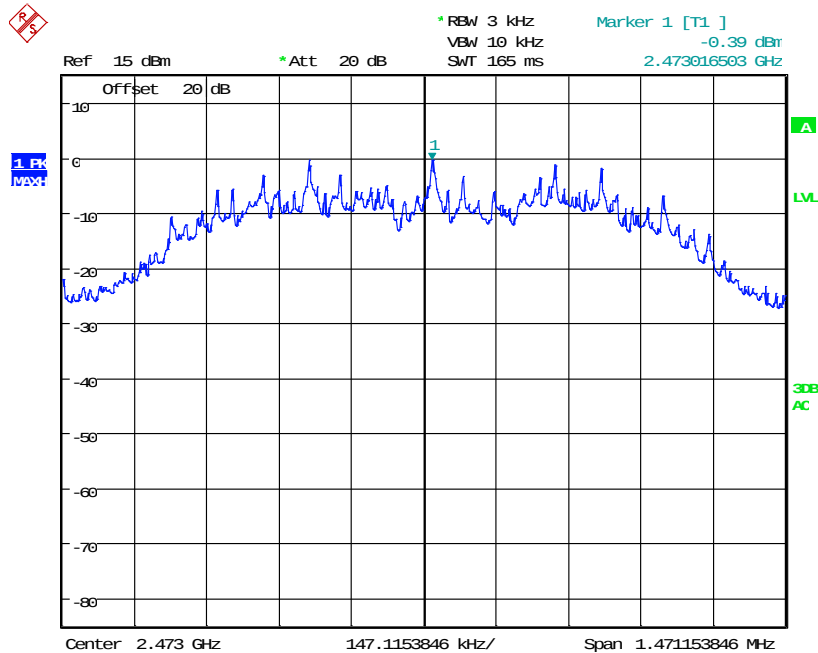
Date: 10.APR.2015 20:39:59

Figure 7.5.2-1: Power Spectral Density - Low Channel



Date: 10.APR.2015 19:55:45

Figure 7.5.2-2: Power Spectral Density - Middle Channel



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Figure 7.5.2-3: Power Spectral Density – High Channel

8 CONCLUSION

In the opinion of ACS, Inc., the model IFB200 manufactured by Zaxcom, Inc. meets the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210 for the test procedures documented in the test report.

END REPORT