



SHENZHEN MOST ELECTRONICS CO., LTD.  
Tel:(86) 755-26825180 Fax:(86) 755-86170310  
Http:// www. szmost.com Email: szmost@szmost.com

### **Test Report**

Product Name: iViewer  
Model No.: HCK1010

FCC ID: ULF-HTM1010

Applicant:

**Homer Technology, Inc.**  
**1 Technology Drive Suite # F213 Irvine CA USA**

**Date Received: 9/26/2006**

**Date Tested: 9/26/2006**



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**FCC ID:** ULF-HTM1010

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## EMC Equipment List

Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
EMI Test Receiver	R&S	ESCS 30	640101048	2006-06-08	2007-06-08
LISN	R&S	ESH2-Z5	640201028-02	2006-06-08	2007-06-08
EMI Test Receiver	R&S	ESMI	640201028	2006-06-08	2007-06-08
BiConiLog antenna	ETS•Lindgren	3142B	00026414	2006-06-08	2007-06-08
Double ridge horn Antenna	EMCO	3115	640201028-08	2006-06-08	2007-06-08
Chamber	ETS•Lindgren	RFSD-F-100	2693	2006-06-08	2007-06-08
Radio communication tester	R&S	CMU200	106389	2006-08-08	2007-08-08

Remark:

Test Firm Name: CHINA CEPREI (HEADQUARTERS) LABORATORY

Test Firm Address: NO 110 DONGGUANZHUANG ROAD, TIANHE DISTRICT, GUANGZHOU 510610, P.R.  
CHINA

FCC Registered Test Site Number: 258518



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## TEST PROCEDURE

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of SHENZHEN MOST ELECTRONICS CO., LTD. The EUT was transmitting a test signal during the testing.

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a 50 UH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS

33                      20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

**ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES:** The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.



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**APPLICANT:** Homer Technology, Inc.  
**FCC ID:** ULF-HTM1010  
**NAME OF TEST:** POWER LINE CONDUCTED INTERFERENCE  
**RULES PART NUMBER:** 15.107

MINIMUM REQUIREMENTS:	FREQUENCY	LEVEL
	MHz	UV
	0.150-30	250

**TEST PROCEDURE:** ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 42.5dBuV @ 453kHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 42.1dBuV @ 453kHz.

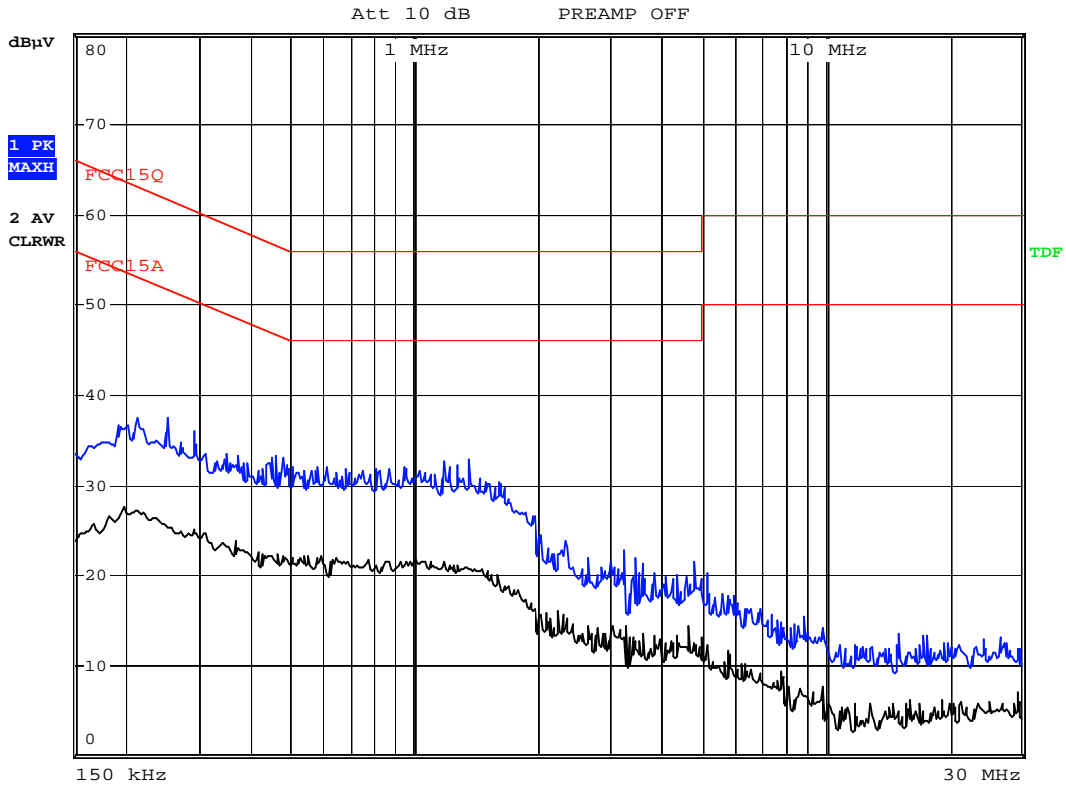
THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.



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RBW 9 kHz  
MT 1 ms  
PREAMP OFF



Date: 26.SEP.2006 14:52:10 L Line



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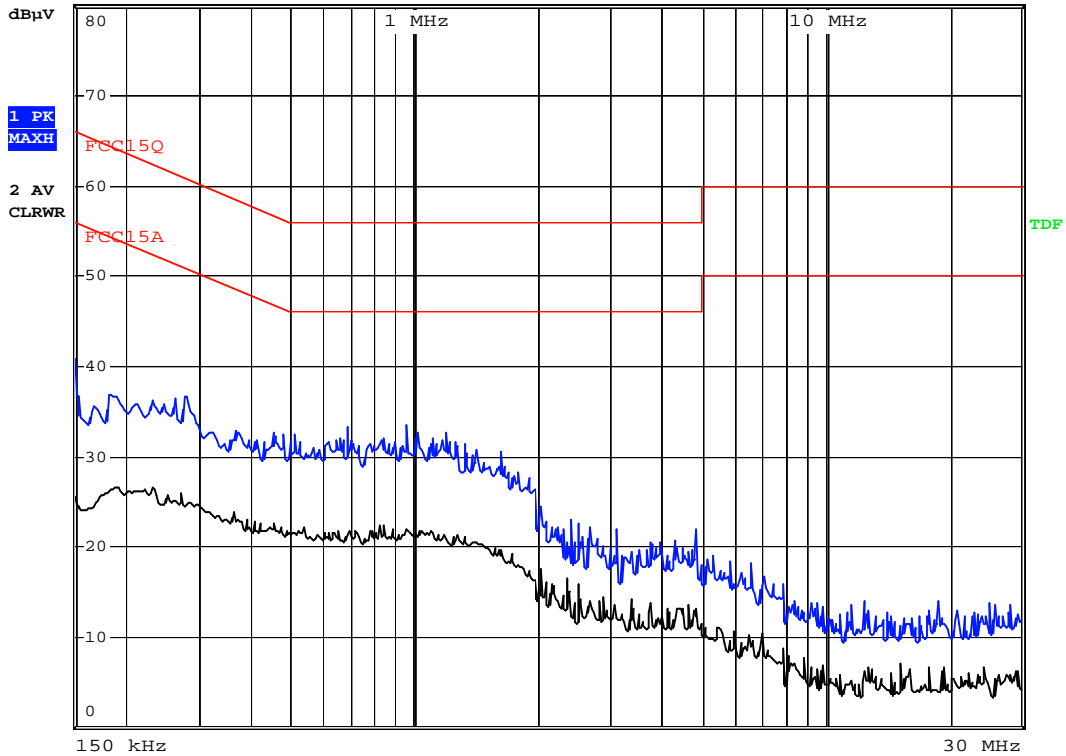


RBW 9 kHz

MT 10 ms

PREAMP OFF

Att 10 dB



Date: 26.SEP.2006 15:01:11 N Line



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**APPLICANT:** Homer Technology, Inc.

**FCC ID:** ULF-HTM1010

**NAME OF TEST:** RADIATION INTERFERENCE

**RULES PART NUMBER:** 15.209

**REQUIREMENTS:**

S15.209  
30 -88 MHz 40 dBuV/m @3M  
88 - 216 MHz 43.5  
216 - 960 MHz 46  
ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 dB BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

**30M-1GHz**

No.	Frequency (MHz)	Corrected QP Level dB (µV/m)	3 Meter Limits dB (µV/m)	Margin (dB)	Antenna Pol.	Angle of Turn (degree)	Height of Tower (cm)
Channel 1: frequency 416.25MHz							
1	416.25	41.0	46.0	-5.0	V	53	154
2	832.5	/	/	/	/	/	/
Channel 2: frequency 424.25MHz							
1	424.25	42.2	46.0	-3.8	V	41	149
2	848.5	/	/	/	/	/	/
Channel 3: frequency 432.25MHz							
1	432.25	42.8	46.0	-3.2	V	318	100
2	864.5	/	/	/	/	/	/
Channel 4: frequency 440.25MHz							
1	440.25	43.4	46.0	-2.6	V	152	105
2	880.5	/	/	/	/	/	/





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**1GHz-5GHz**

No.	Frequency (MHz)	Corrected PK/AV Level dB (μV/m)	3 Meter Limits dB (μV/m) PK/AV	Margin (dB)	Antenna Pol.	Angle of Turn (degree)	Height of Tower (cm)
<i>Channel 1: frequency 416.25MHz</i>							
3	1248.75	/	/	/	/	/	/
4	1665	/	/	/	/	/	/
5	2081.25	/	/	/	/	/	/
6	2497.5	/	/	/	/	/	/
7	2913.75	/	/	/	/	/	/
8	3330	/	/	/	/	/	/
9	3746.25	/	/	/	/	/	/
10	4162.5	/	/	/	/	/	/
<i>Channel 2: frequency 424.25MHz</i>							
3	1272.75	/	/	/	/	/	/
4	1697	/	/	/	/	/	/
5	2121.25	/	/	/	/	/	/
6	2545.5	/	/	/	/	/	/
7	2969.75	/	/	/	/	/	/
8	3394	/	/	/	/	/	/
9	3818.25	/	/	/	/	/	/
10	4242.5	/	/	/	/	/	/



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<i>Channel 3: frequency 432.25MHz</i>							
3	1296.75	/	/	/	/	/	/
4	1729	/	/	/	/	/	/
5	2161.25	/	/	/	/	/	/
6	2593.5	/	/	/	/	/	/
7	3025.75	/	/	/	/	/	/
8	3458	/	/	/	/	/	/
9	3890.25	/	/	/	/	/	/
10	4322.5	/	/	/	/	/	/
<i>Channel 4: frequency 440.25MHz</i>							
3	1320.75	/	/	/	/	/	/
4	1761	/	/	/	/	/	/
5	2201.25	/	/	/	/	/	/
6	2641.5	/	/	/	/	/	/
7	3081.75	/	/	/	/	/	/
8	3522	/	/	/	/	/	/
9	3962.25	/	/	/	/	/	/
10	4402.5	/	/	/	/	/	/

Note: remark "/" means that the emission level is too low to be measured.

TEST RESULTS: The unit DOES meet the FCC requirements.



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**APPLICANT:** Homer Technology, Inc.

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**NAME OF TEST:** Occupied Bandwidth

**RULES PART NUMBER:** 15.209

**REQUIREMENTS:** The field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the un-modulated carrier or to the general limits of 15.209, whichever permits the higher emission levels.

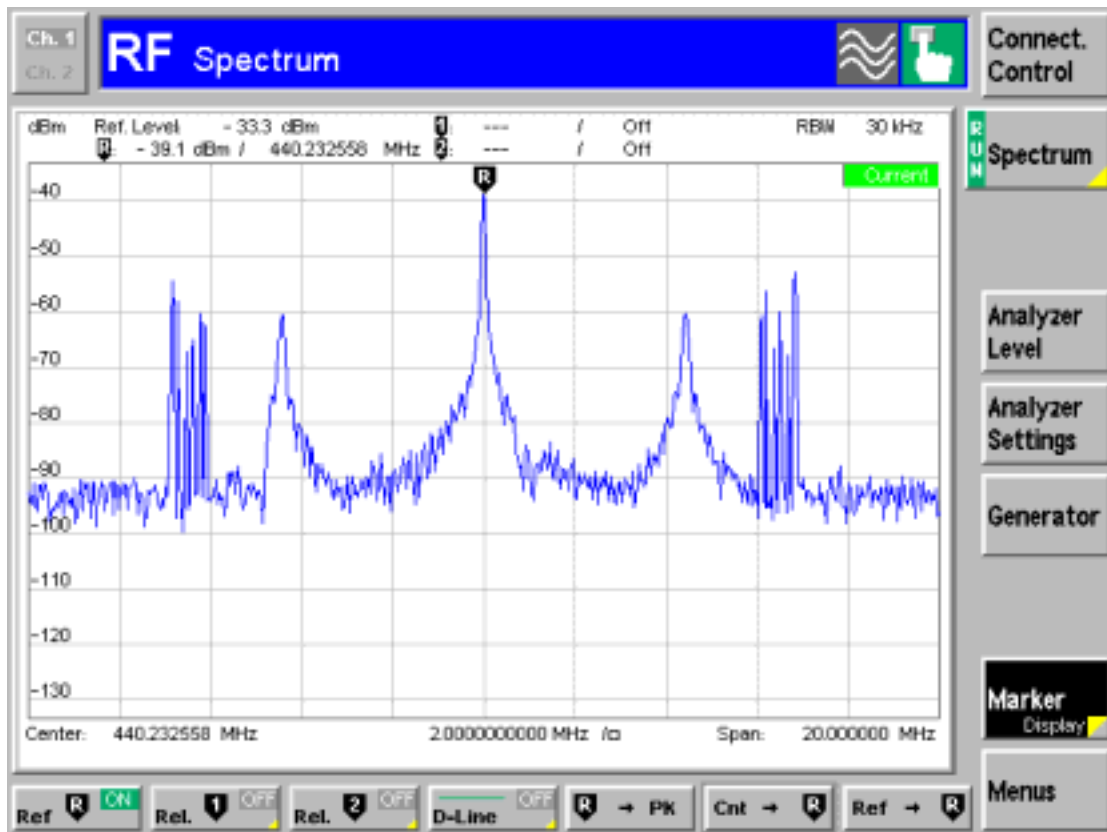
THE GRAPH ON THE FOLLOWING PAGE REPRESENTS THE EMISSIONS TAKEN FOR THE DEVICE.

**METHOD OF MEASUREMENT:** A small sample of the transmitter output was fed into the spectrum analyzer and the above photo was taken. The vertical scale is set to -10 dBm per division. The horizontal scale is set to 2 MHz per division.

**TEST RESULTS:** The unit DOES meet the FCC requirements.

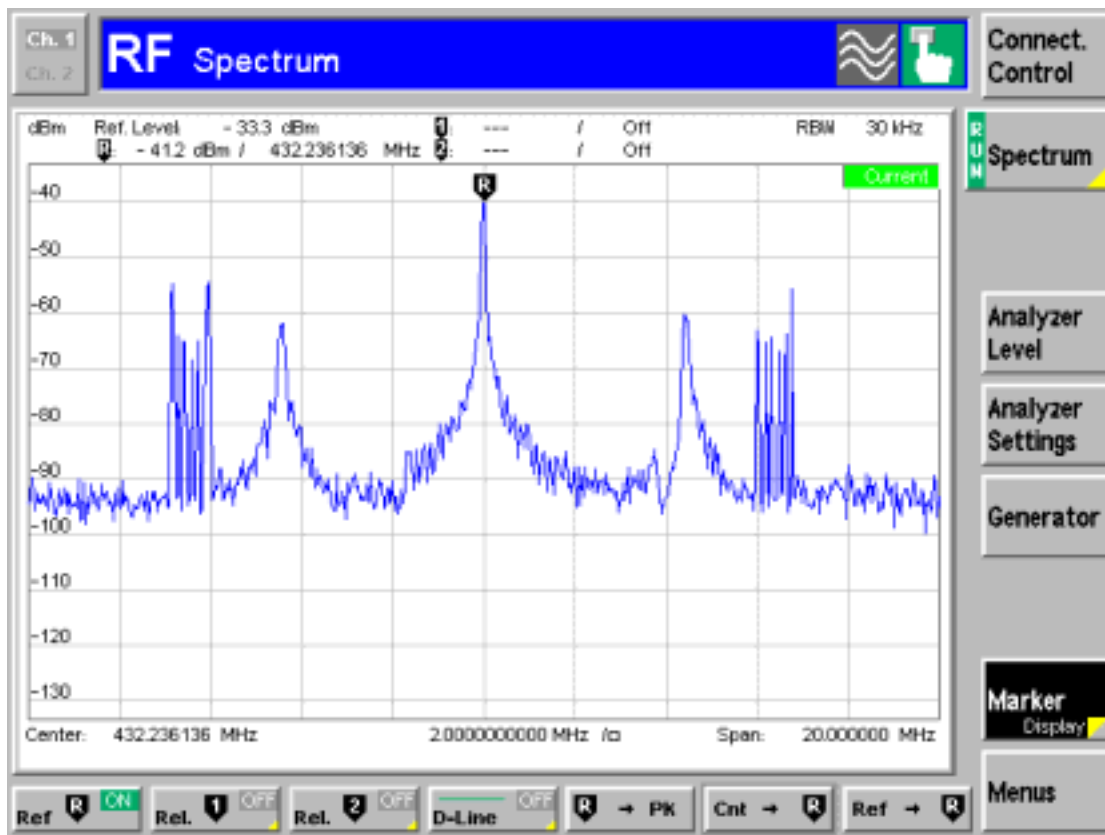


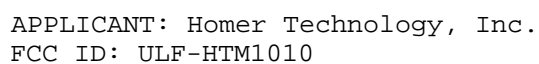
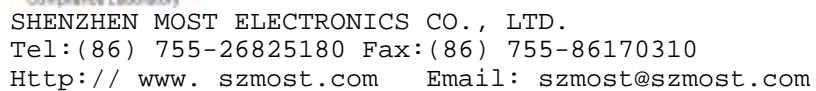
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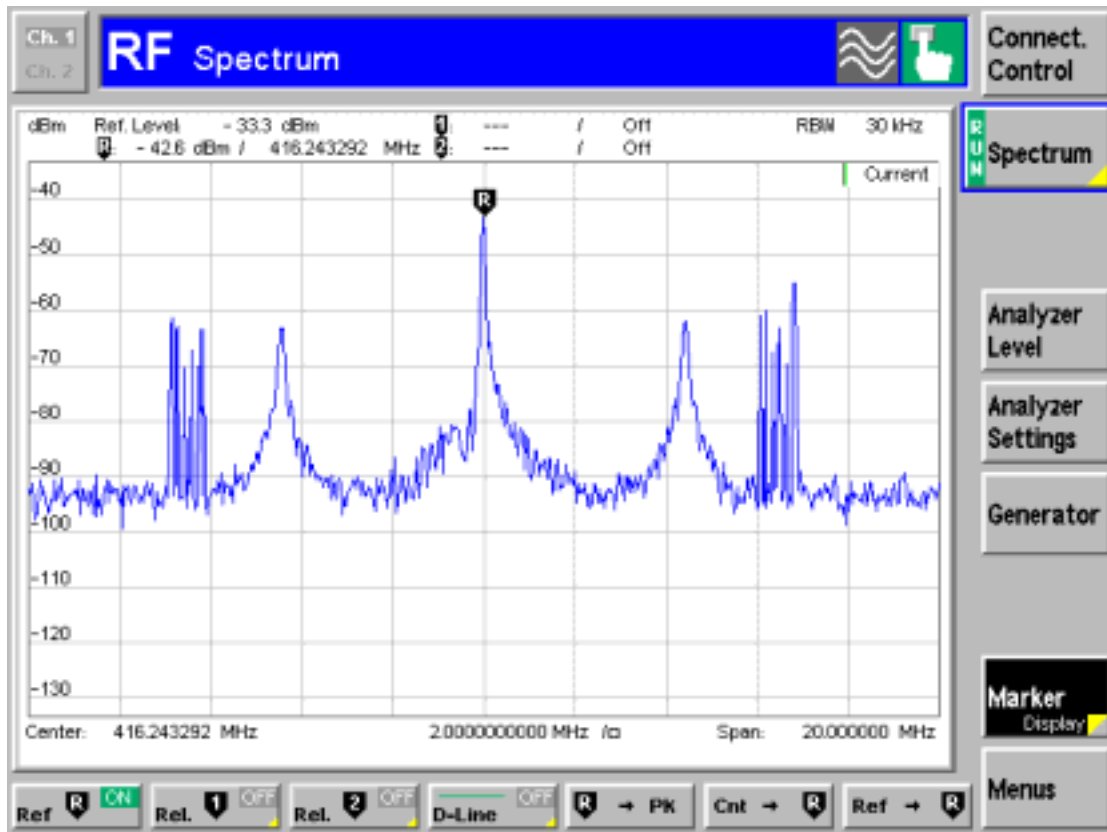




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