ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.

Application
For
Certification

FCC ID: 2AAB5GC576069

WIFI POWER BANK

Model: iT1010
Additional Models: iT1020, iT1030

Trademark: digitrex, i-Trav, dqv

WiFi Transceiver

Report No.: 130510032SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-12]

Prepared and Checked by:

Sign on file

Chris Chen
Engineer

Approved by:

Digitally signed by Andy Yan
Location: Intertek Testing Services

Andy Yan
Project Engineer
Date: June 14, 2013

TRF no.: FCC 15C_Tx_b

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LIST OF EXHIBITS

MEASUREMENT/TECHNICAL REPORT

ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
MODEL: iT1010
Additional Models: iT1020, iT1030

FCC ID: 2AAB5GC576069

This report concerns (check one) Original Grant ___X___ Class II Change ____

Equipment Type: DTS - Part 15 Digital Transmission Systems (WiFi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No ___X___

If yes, defer until : _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No ___X___

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-12 Edition] provision.

Report prepared by:

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Fax: (86 755) 8614 6751

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Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf
Cover Letter	Certification Agreement	agreement.pdf

EXHIBIT 1

SUMMARY OF TEST RESULTS

Summary of Test

ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
MODEL: iT1010

FCC ID: 2AAB5GC576069

TEST	REFERENCE	RESULTS
Max. Output power	15.247(b)(3)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

EXHIBIT 2

GENERAL DESCRIPTION

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a WIFI POWER BANK with internal WiFi function operating at 2412-2462MHz for 802.11b/g/n-HT20, 11 channels with 5MHz channel spacing and 2422-2452MHz for 802.11n-HT40, 7 channels with 5MHz channel spacing. The EUT can be powered by DC 3.7V (1 x 3.7V rechargeable battery) or AC 110V ~ 240V, 50/60Hz. For more detailed features description, please refer to the user's manual.

Type of Modulation: BPSK, QPSK, 16QAM, 64QAM, CCK, DQPSK, DBPSK .
Antenna Type: Integral Antenna.

The Models: iT1020, iT1030 are the same as the Model: iT1010 in hardware aspect. The models are difference in the appearance, trade name and model no. for trading purpose.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:
DTS- Part 15 Digital Transmission Systems (WiFi transmitter portion)

Remaining portions are subject to the following procedures:
1. Receiver portion of WiFi: exempt from technical requirement of this Part.
2. Other Digital Function: (FCC VOC report)

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

EXHIBIT 3

SYSTEM TEST CONFIGURATION

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables and accessories were manipulated to produce worst case emissions. The EUT was powered separately by the DC 3.7V (1 x 3.7V fully charged battery) and AC 120V/60Hz input during the test. Only the worst case data was reported.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:
During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Power Parameters of IEEE 802.11b/g/n

Test software setting of IEEE 802.11b/g/n			
Channel No.	Output Power Level	Data rate	Modulation type
1,6,11	15.0	802.11b: 1-11Mbps	802.11b: CCK
	19.0	802.11g: 6-54Mbps	802.11g: BPSK, QPSK, 16QAM
1,6,11	19.0	802.11n-HT20: 6.5-65Mbps	802.11n: BPSK, QPSK, 16QAM,
3,6,9	19.0	802.11n-HT40: 13.5-135Mbps	802.11n: BPSK, QPSK, 16QAM, 64QAM

3.3 Special Accessories

N/A

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.5 Equipment Modification

Any modifications installed previous to testing by ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Model No.
USB Disk	Sandisk	U210
Phone	Nokia	S1310
Router	TP-Link	S535D24
USB Cable	N/A	Unshielded, Length 150cm
RJ45 Cable	N/A	Unshielded, Length 300cm

EXHIBIT 4

MEASUREMENT RESULTS

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.0 **Measurement Results**

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

[ ] The antenna power of the EUT was connected to the input of a spectrum analyzer. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

[ ] The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set according to the FCC KDB 558074 spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges and power was read directly in dBm. External attenuation and cable loss were compensated from the measured value.

[×] The antenna power of the EUT was connected to the input of a broadband peak RF power meter. The power meter have a video bandwidth that is greater than DTS bandwidth and utilize a fast-responding diode detector. Power was read directly at the EUT antenna terminals with cable loss added.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 0dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	15.51	35.56
Middle Channel: 2437	15.20	33.11
High Channel: 2462	14.34	27.16

IEEE 802.11g (Antenna Gain = 0dBi) (16QAM, 6Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	19.46	88.31
Middle Channel: 2437	19.02	79.80
High Channel: 2462	18.75	74.99

IEEE 802.11n-HT20 (Antenna Gain = 0 dBi) (16QAM, 6.5Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	19.27	84.53
Middle Channel: 2437	18.59	72.28
High Channel: 2462	18.22	66.37

IEEE 802.11n-HT40 (Antenna Gain = 0dBi) (64QAM, 13.5Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2422	19.26	84.33
Middle Channel: 2437	19.29	84.92
High Channel: 2452	19.00	79.43

EUT max. output level = 19.46dBm

Cable Loss: 0.6dB

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 KHz according to FCC KDB 558074. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

Limit: The 6 dB Bandwidth is at least 500 kHz.

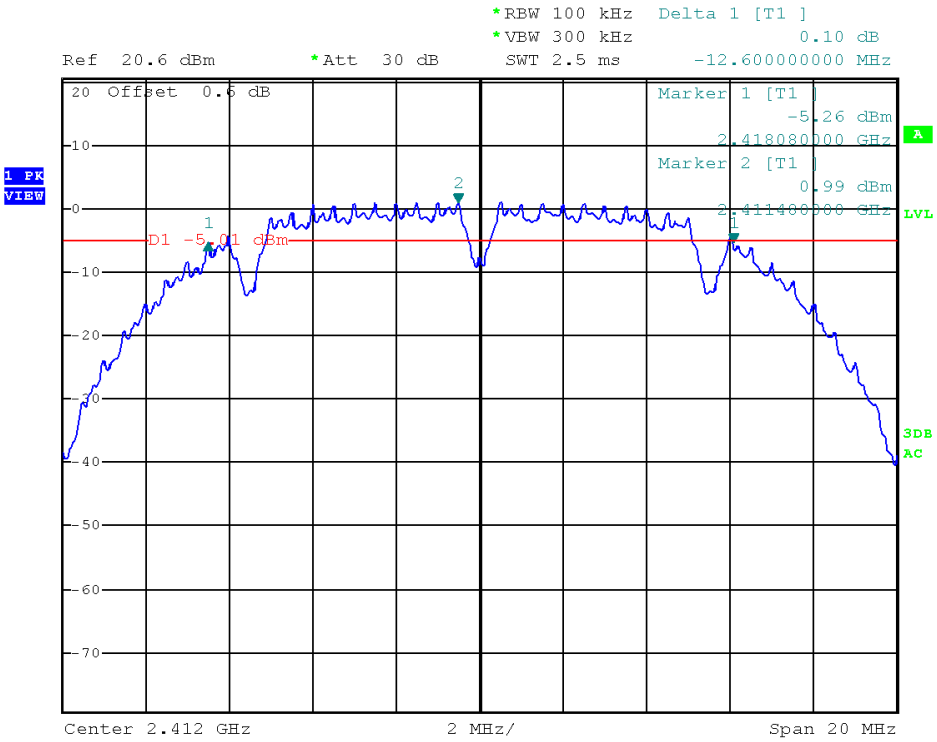
IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	12.60
2437	12.16
2462	12.12

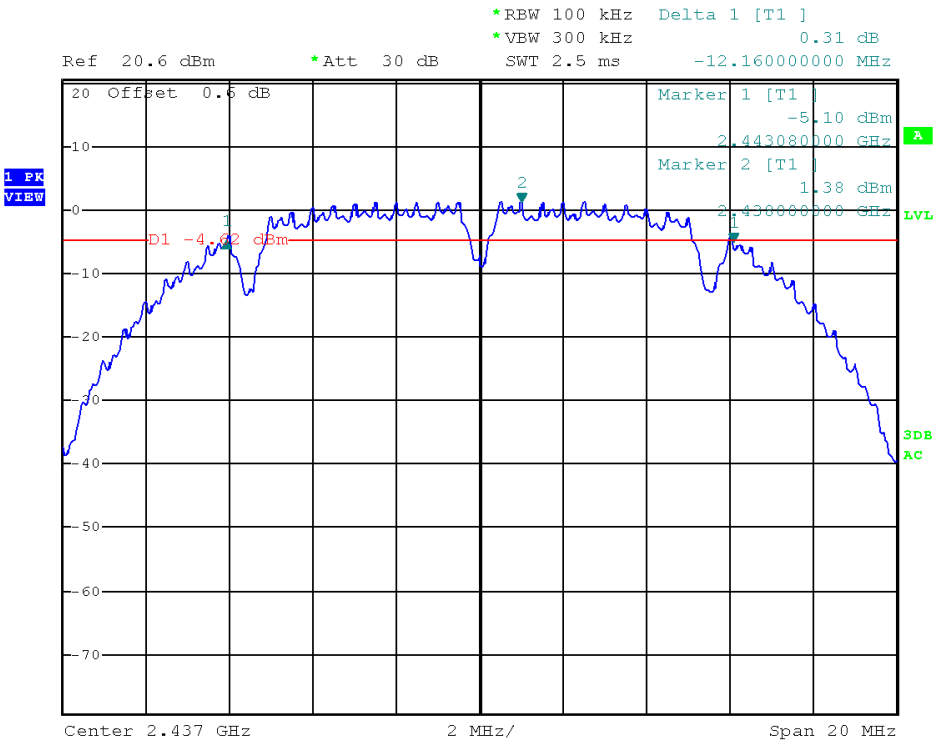
IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	16.48
2437	16.24
2462	16.44
IEEE 802.11n-HT20 (16QAM, 6.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412	17.24
2437	16.96
2462	17.12

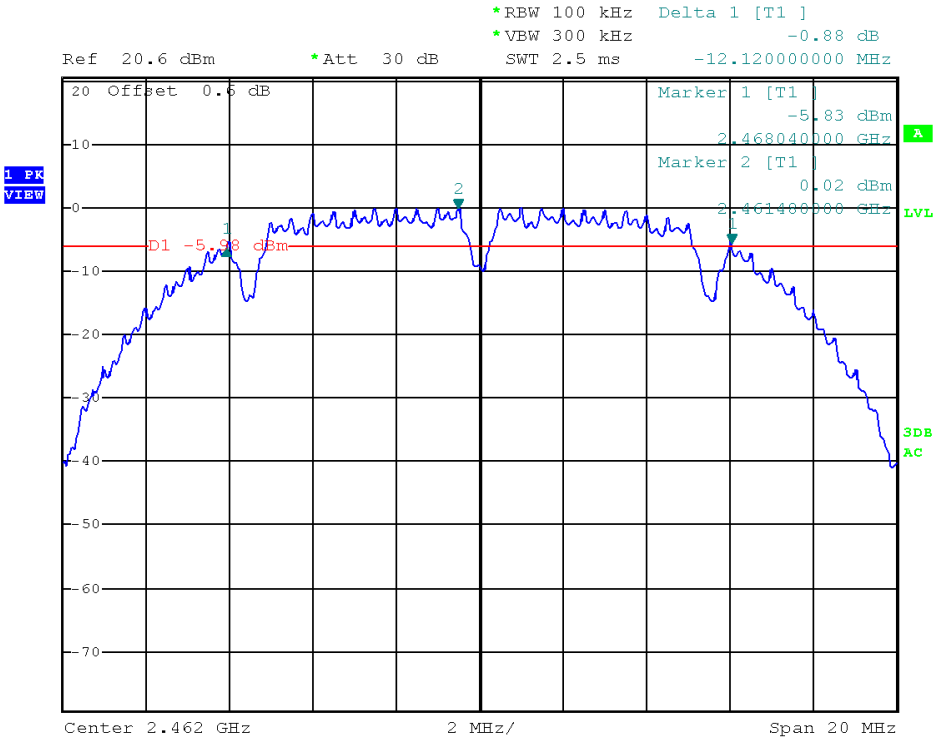
IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2422	35.20
2437	35.20
2452	35.20

The test plots are attached as below.

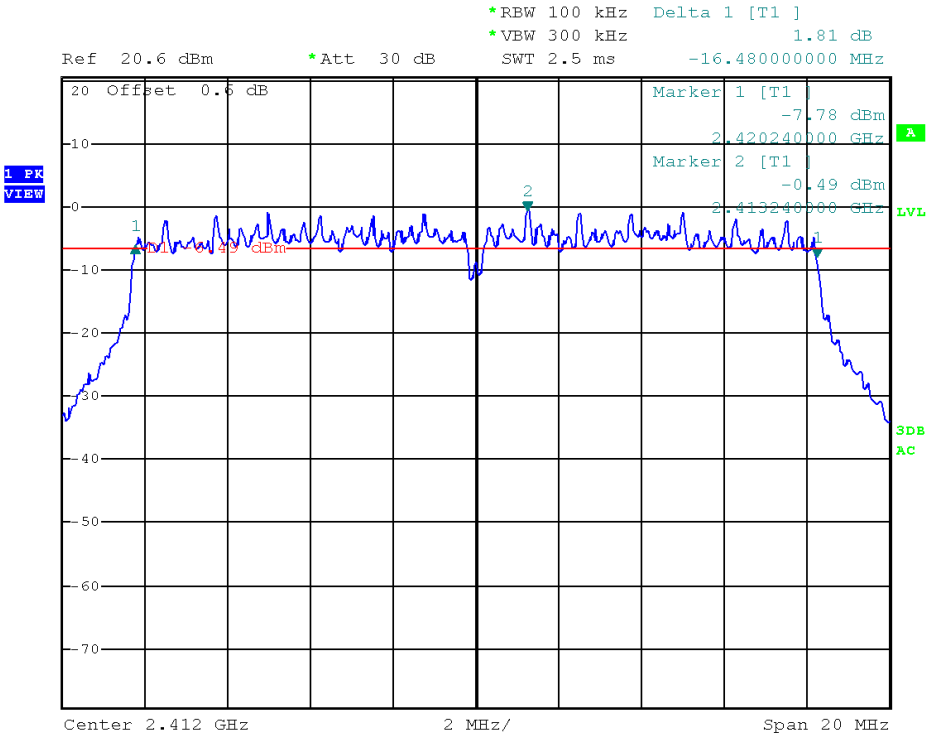
802.11b

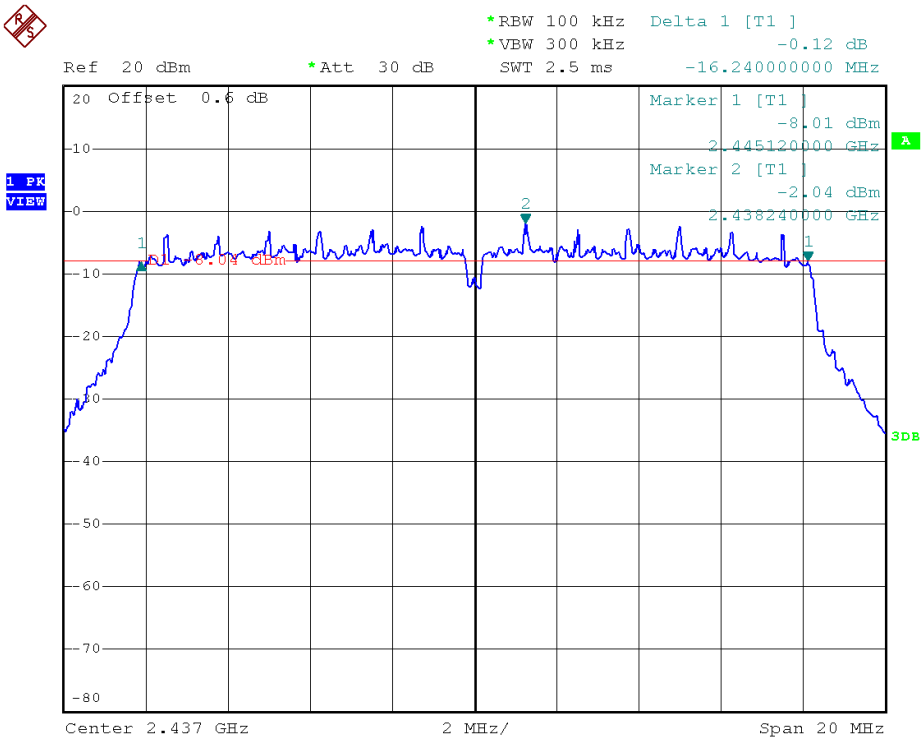

*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Delta 1 [T1]
0.10 dB
-12.600000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-5.26 dBm
2.418080000 GHz
Marker 2 [T1]
0.99 dBm
2.411400000 GHz
1 PK VIEW
A
LVL
3DB AC
D1 -5.01 dBm
Center 2.412 GHz
2 MHz/
Span 20 MHz

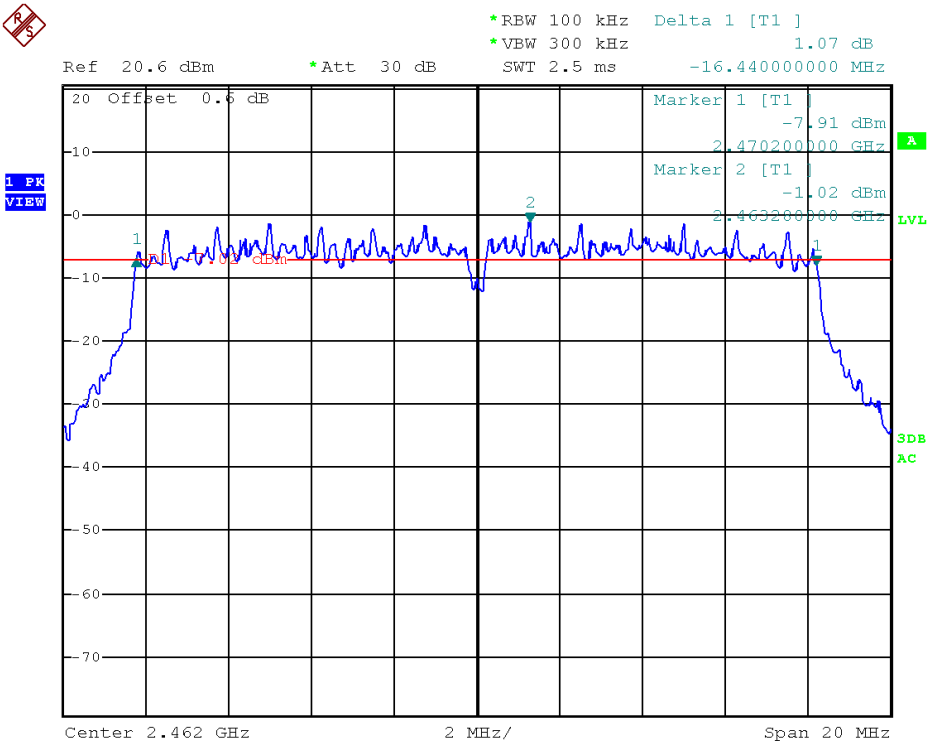

*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Delta 1 [T1]
0.31 dB
-12.160000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-5.10 dBm
2.443080000 GHz
Marker 2 [T1]
1.38 dBm
2.430000000 GHz
1 PK VIEW
A
LVL
3DB AC
D1 -4.62 dBm
Center 2.437 GHz
2 MHz/
Span 20 MHz


*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Delta 1 [T1]
-0.88 dB
-12.120000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-5.83 dBm
2.468040000 GHz
Marker 2 [T1]
0.02 dBm
2.461400000 GHz
1 PK VIEW
A
LVL
3DB AC
D1 -5.98 dBm
Center 2.462 GHz
2 MHz/
Span 20 MHz

802.11g


*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Delta 1 [T1]
1.81 dB
-16.480000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-7.78 dBm
2.420240000 GHz
Marker 2 [T1]
-0.49 dBm
2.413240000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.412 GHz
2 MHz/
Span 20 MHz


*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Delta 1 [T1]
-0.12 dB
-16.240000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-8.01 dBm
2.445120000 GHz
Marker 2 [T1]
-2.04 dBm
2.438240000 GHz
1 PK
VIEW
A
3DB
Center 2.437 GHz
2 MHz/
Span 20 MHz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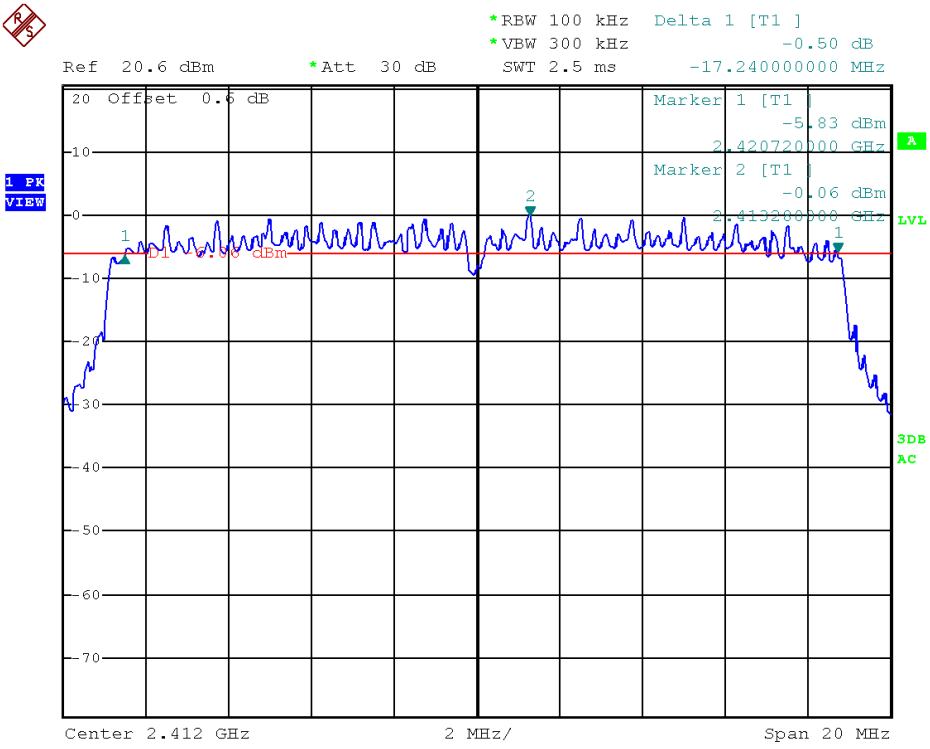
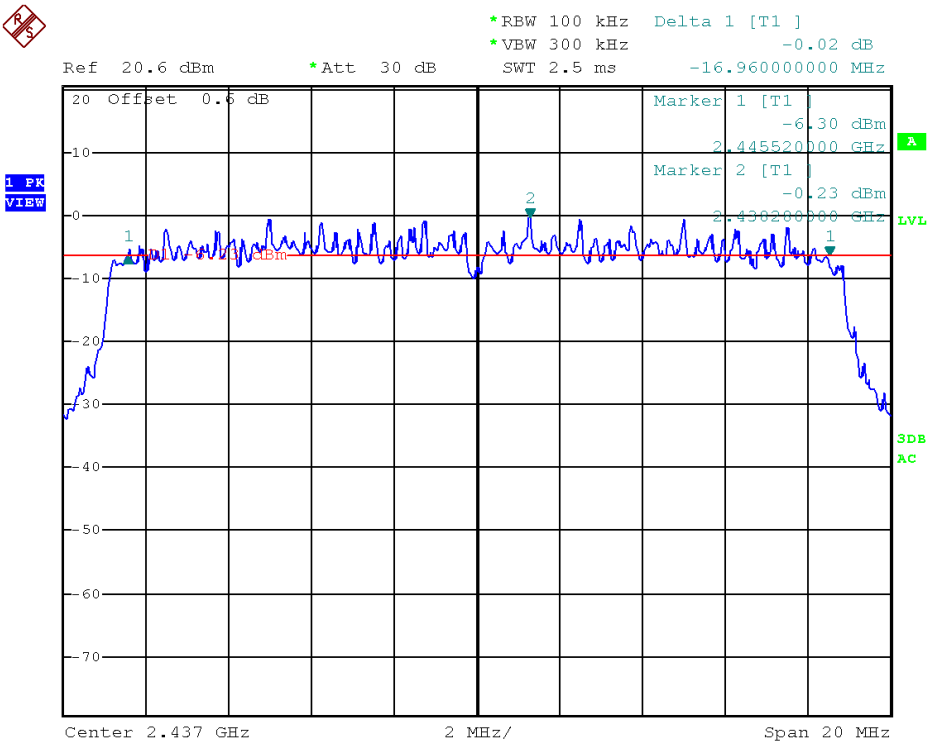
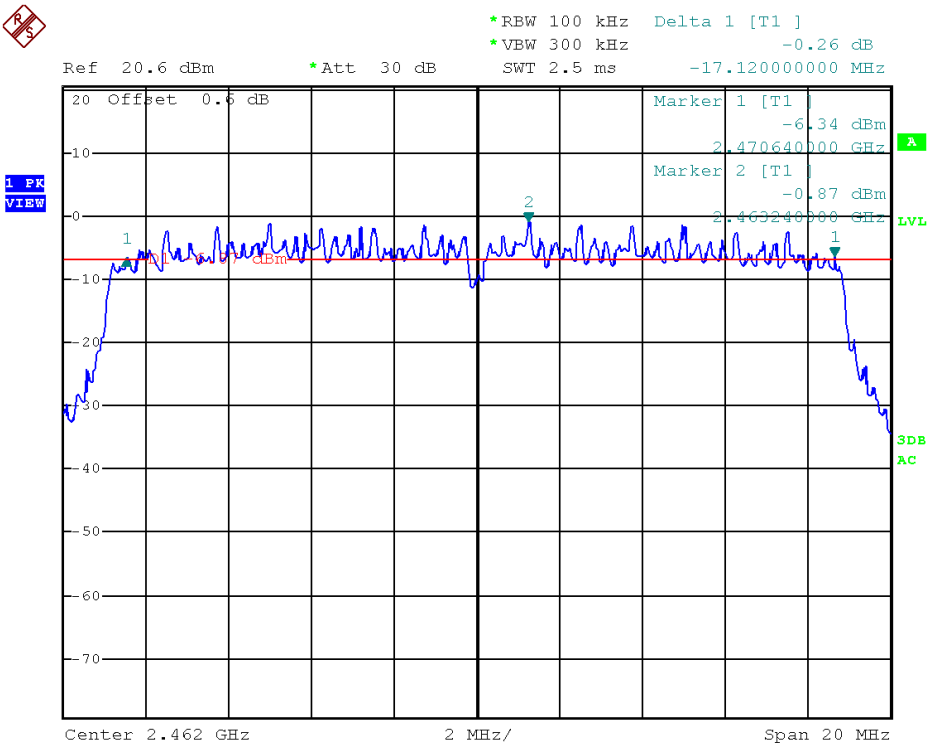
SWT 2.5 ms
Delta 1 [T1]
1.07 dB
-16.440000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-7.91 dBm
2.470200000 GHz
Marker 2 [T1]
-1.02 dBm
2.463200000 GHz
1 PK
VIEW
A
LVL
3DB
AC
Center 2.462 GHz
2 MHz/
Span 20 MHz

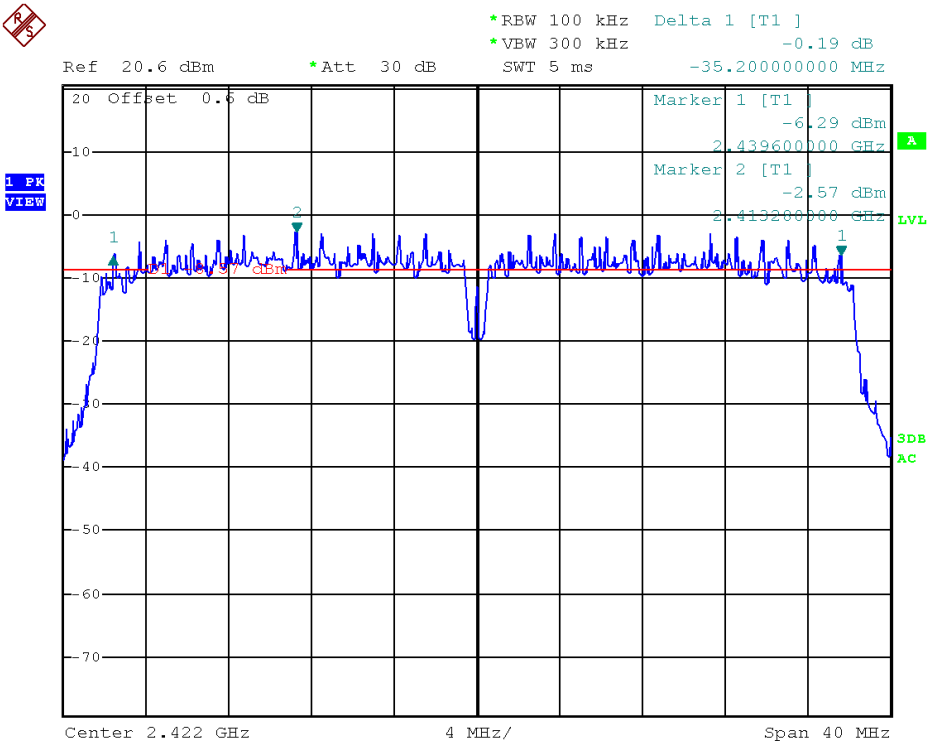
802.11 n-HT20

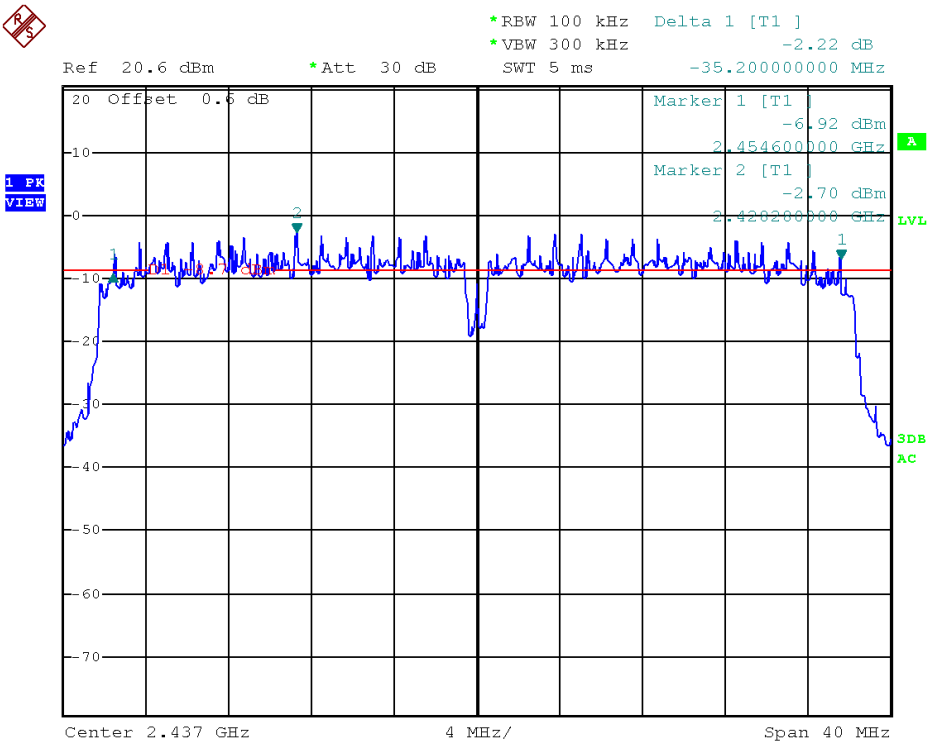

*RBW 100 kHz
*VBW 300 kHz
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
Delta 1 [T1]
-0.50 dB
-17.240000000 MHz
20 Offset 0.6 dB
Marker 1 [T1]
-5.83 dBm
2.420720000 GHz
Marker 2 [T1]
-0.06 dBm
2.413200000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.412 GHz
2 MHz/
Span 20 MHz

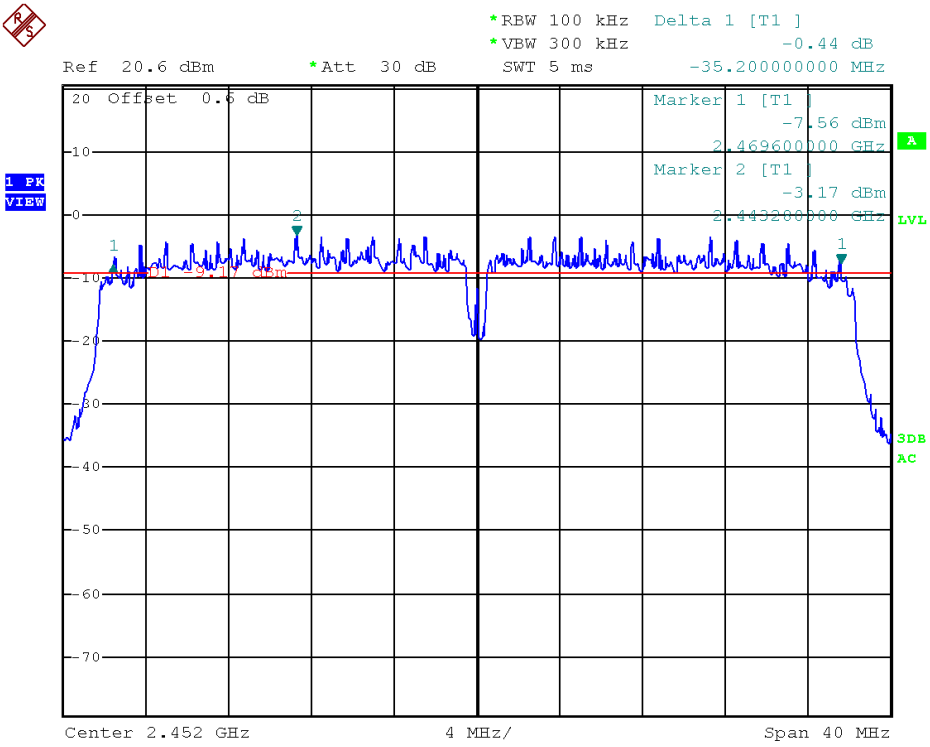

*RBW 100 kHz
*VBW 300 kHz
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
Delta 1 [T1]
-0.02 dB
-16.960000000 MHz
20 Offset 0.6 dB
Marker 1 [T1]
-6.30 dBm
2.445520000 GHz
Marker 2 [T1]
-0.23 dBm
2.430200000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.437 GHz
2 MHz/
Span 20 MHz


*RBW 100 kHz
*VBW 300 kHz
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
Delta 1 [T1]
-0.26 dB
-17.120000000 MHz
20 Offset 0.6 dB
Marker 1 [T1]
-6.34 dBm
2.470640000 GHz
Marker 2 [T1]
-0.87 dBm
2.463240000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.462 GHz
2 MHz/
Span 20 MHz

802.11 n-HT40


*RBW 100 kHz
*VBW 300 kHz
Ref 20.6 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.19 dB
-35.200000000 MHz
20 Offset 0.6 dB
Marker 1 [T1]
-6.29 dBm
2.439600000 GHz
Marker 2 [T1]
-2.57 dBm
2.413200000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.422 GHz
4 MHz/
Span 40 MHz


*RBW 100 kHz
*VBW 300 kHz
SWT 5 ms
Delta 1 [T1]
-2.22 dB
-35.200000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-6.92 dBm
2.454600000 GHz
Marker 2 [T1]
-2.70 dBm
2.420200000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.437 GHz
4 MHz/
Span 40 MHz


*RBW 100 kHz
*VBW 300 kHz
SWT 5 ms
Delta 1 [T1]
-0.44 dB
-35.200000000 MHz
Ref 20.6 dBm
*Att 30 dB
20 Offset 0.6 dB
Marker 1 [T1]
-7.56 dBm
2.469600000 GHz
Marker 2 [T1]
-3.17 dBm
2.443200000 GHz
1 PK VIEW
A
LVL
3DB AC
Center 2.452 GHz
4 MHz/
Span 40 MHz

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.3 Maximum Power Density Reading, FCC Rule 15.247(e):

The Measurement Procedure PKPSD was set according to the FCC KDB 558074.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

Limit: The Power Density does not exceed 8dBm/ 3 kHz.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	1.16
2437	0.65
2462	-0.15

IEEE 802.11g (16QAM, 6Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	0.01
2437	-0.98
2462	-1.16

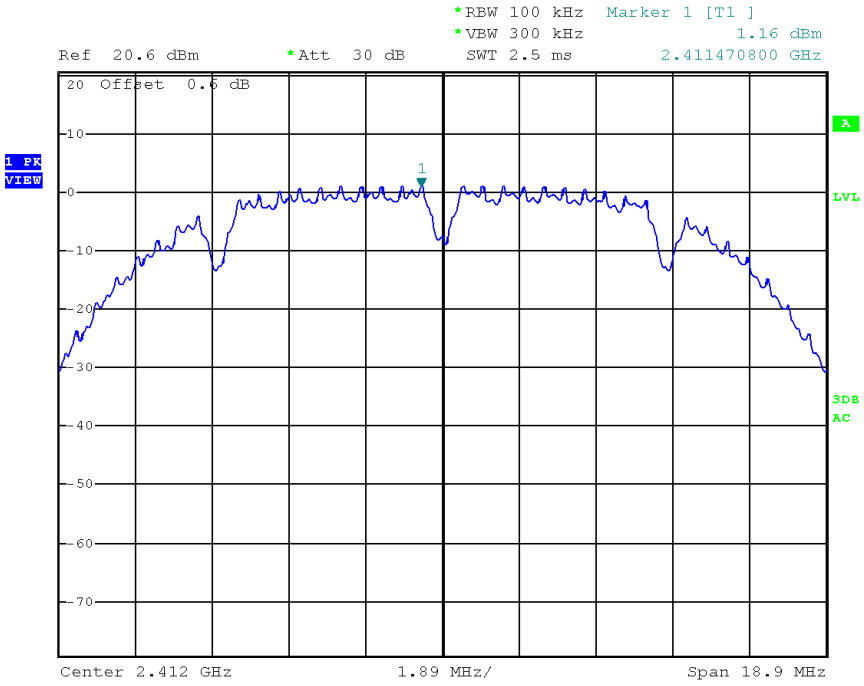
IEEE 802.11n-HT20 (16QAM, 6.5Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2412	-0.16
2437	-0.36
2462	-1.08

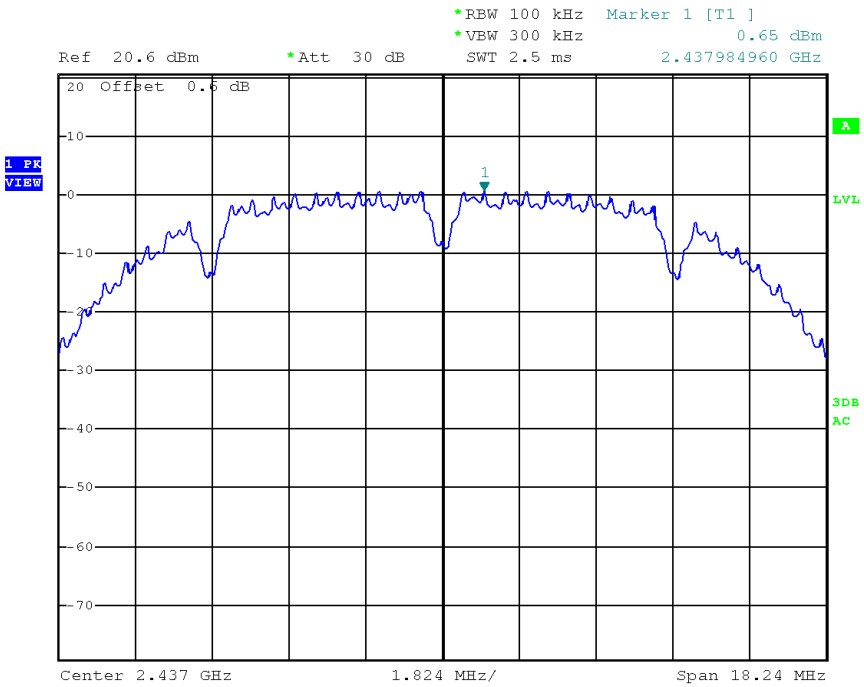
IEEE 802.11n-HT40 (64QAM, 13.5Mbps)	
Frequency (MHz)	Power Density with RBW 100KHz
2422	-2.74
2437	-2.91
2452	-3.13

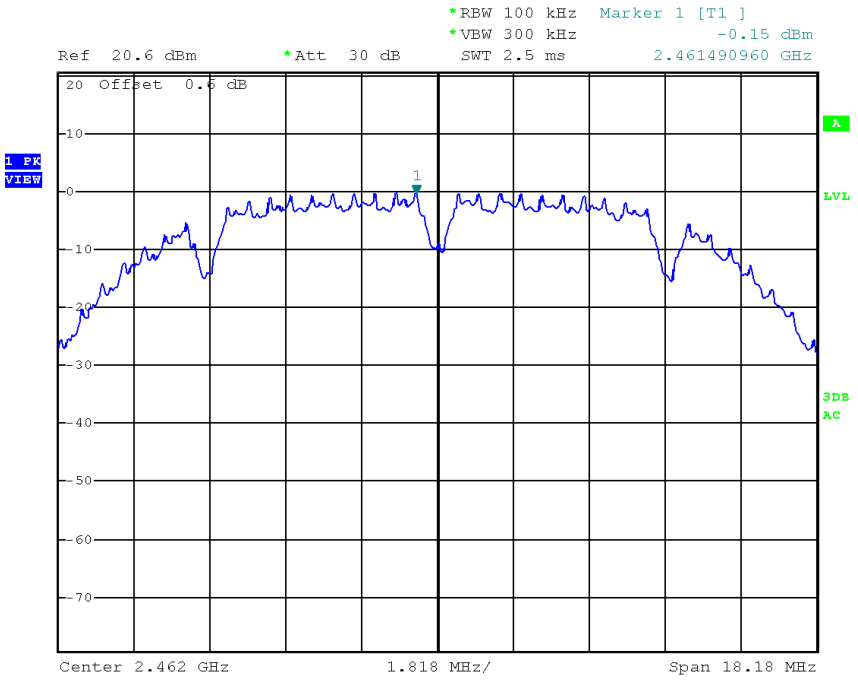
Cable Loss: 0.6dB

The test plots are attached as below.

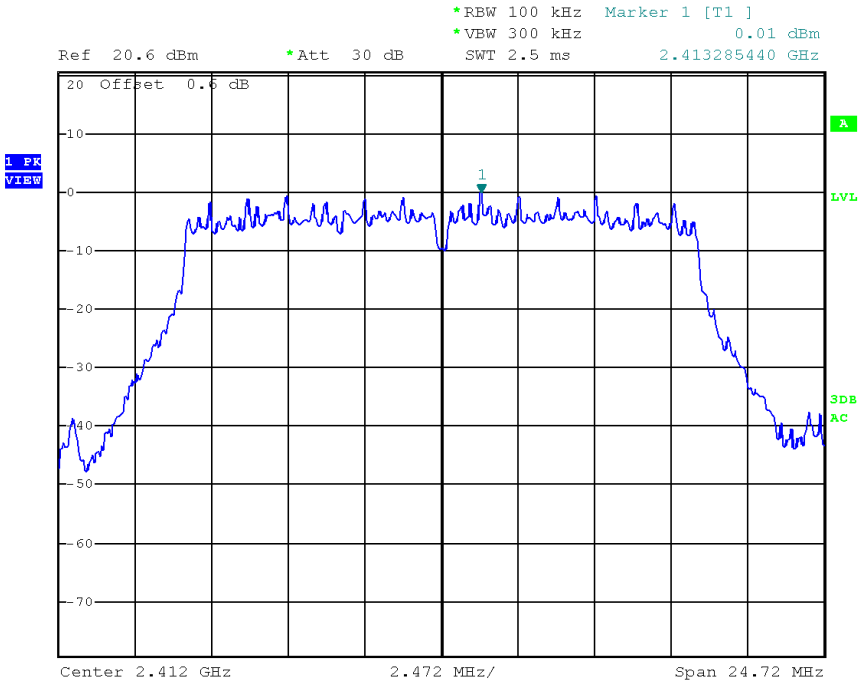
802.11b

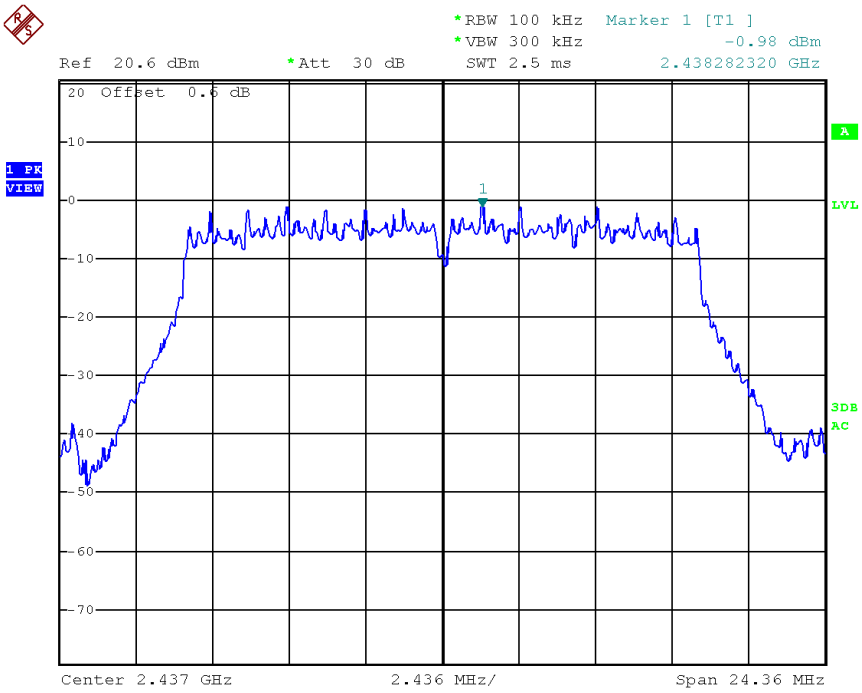

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
1.16 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.411470800 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.412 GHz
1.89 MHz/
Span 18.9 MHz

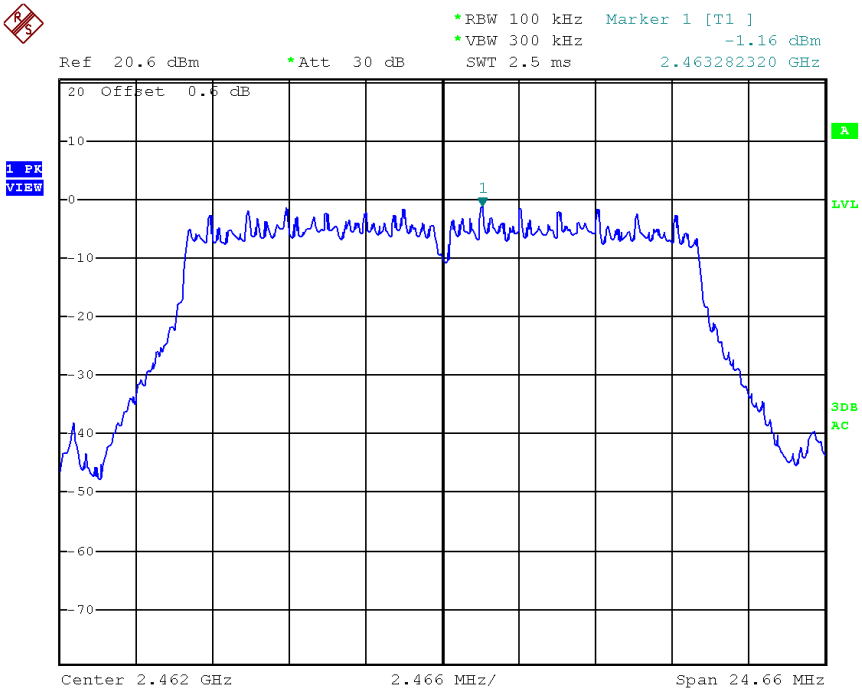

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
0.65 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.437984960 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.437 GHz
1.824 MHz/
Span 18.24 MHz


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-0.15 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.461490960 GHz
20 Offset 0.6 dB
1 PK VIEW
A
LVL
3DB AC
Center 2.462 GHz
1.818 MHz/
Span 18.18 MHz

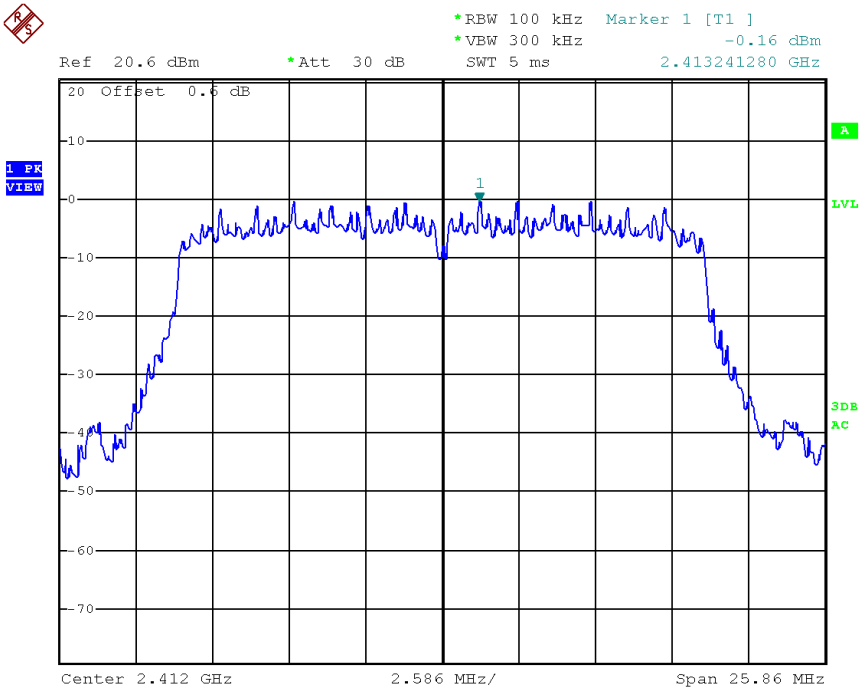
802.11g

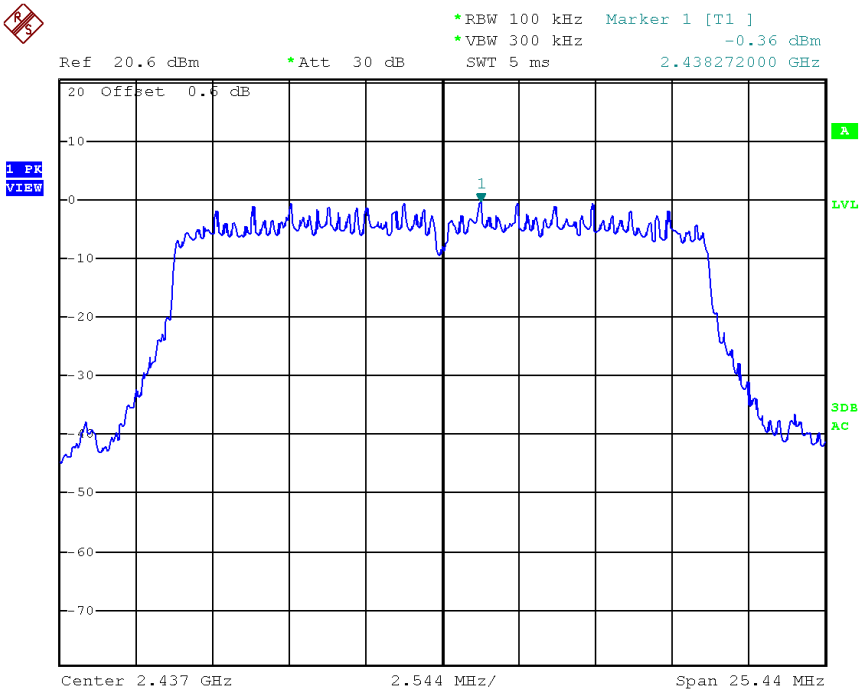

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
0.01 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.413285440 GHz
20 Offset 0.6 dB
1 PK VIEW
A
LVL
3DB AC
Center 2.412 GHz
2.472 MHz/
Span 24.72 MHz

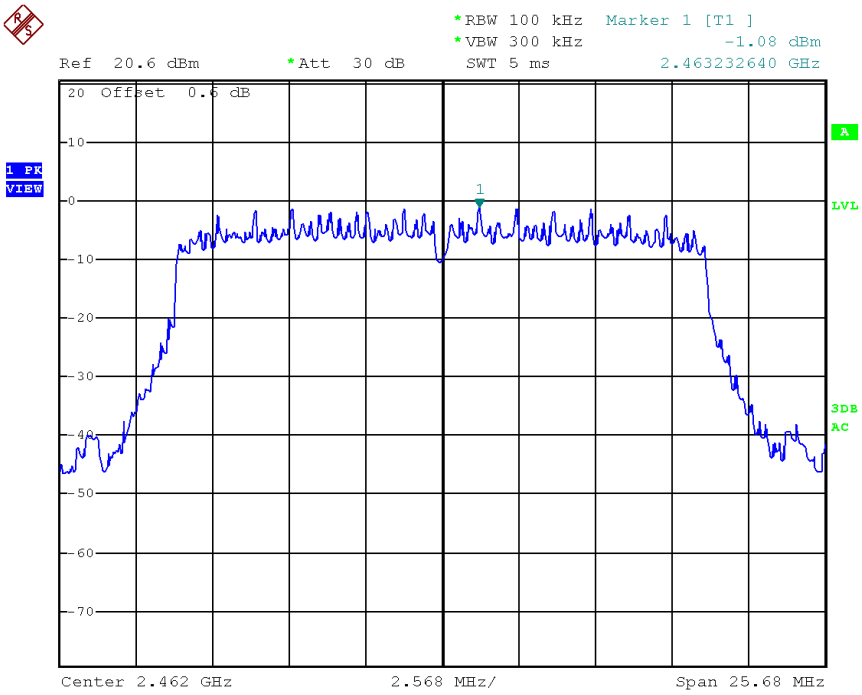

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-0.98 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.438282320 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.437 GHz
2.436 MHz/
Span 24.36 MHz


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-1.16 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 2.5 ms
2.463282320 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.462 GHz
2.466 MHz/
Span 24.66 MHz

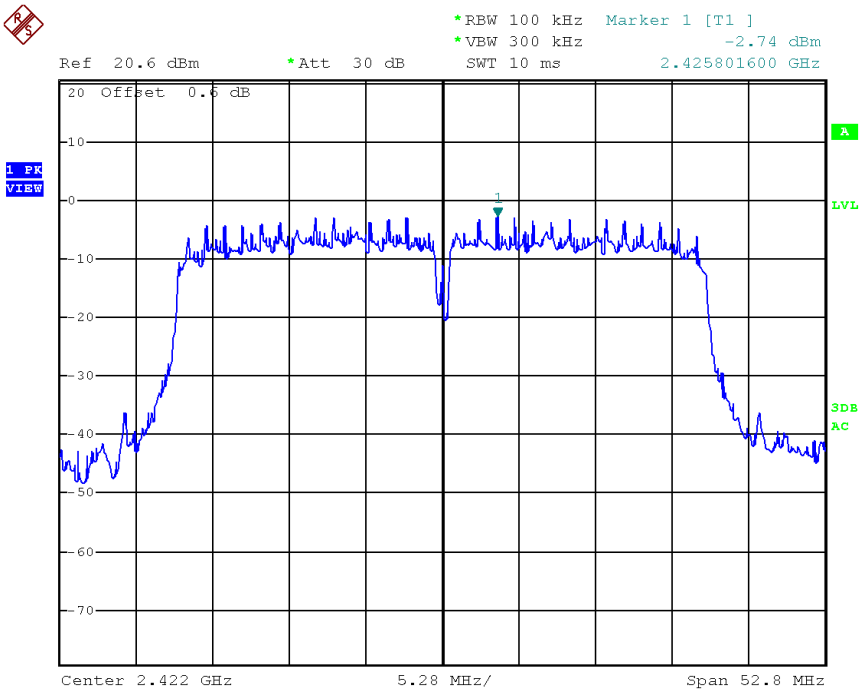
802.11 n-HT20

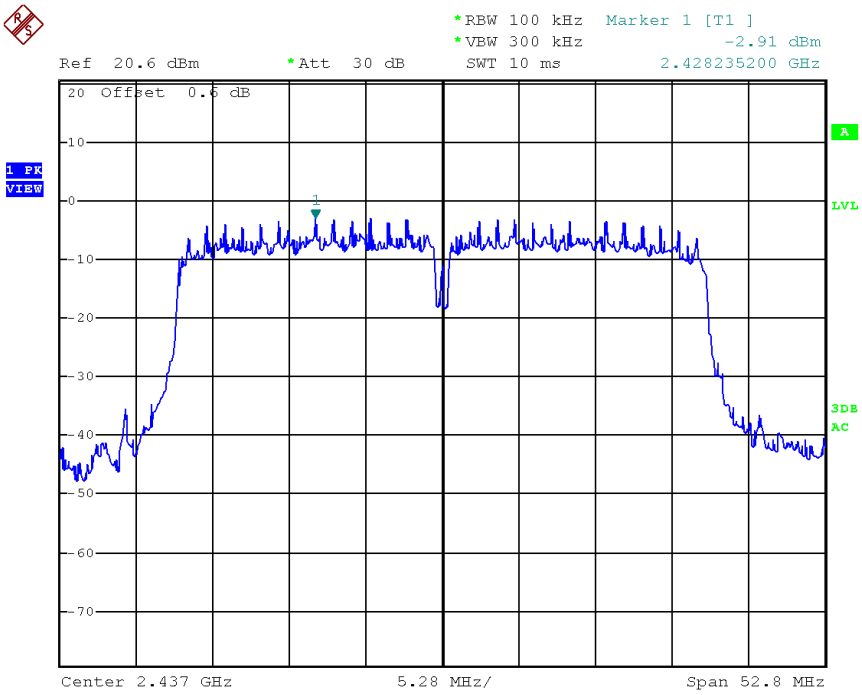

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-0.16 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 5 ms
2.413241280 GHz
20 Offset 0.6 dB
1 PK VIEW
A
LVL
3DB AC
Center 2.412 GHz
2.586 MHz/
Span 25.86 MHz

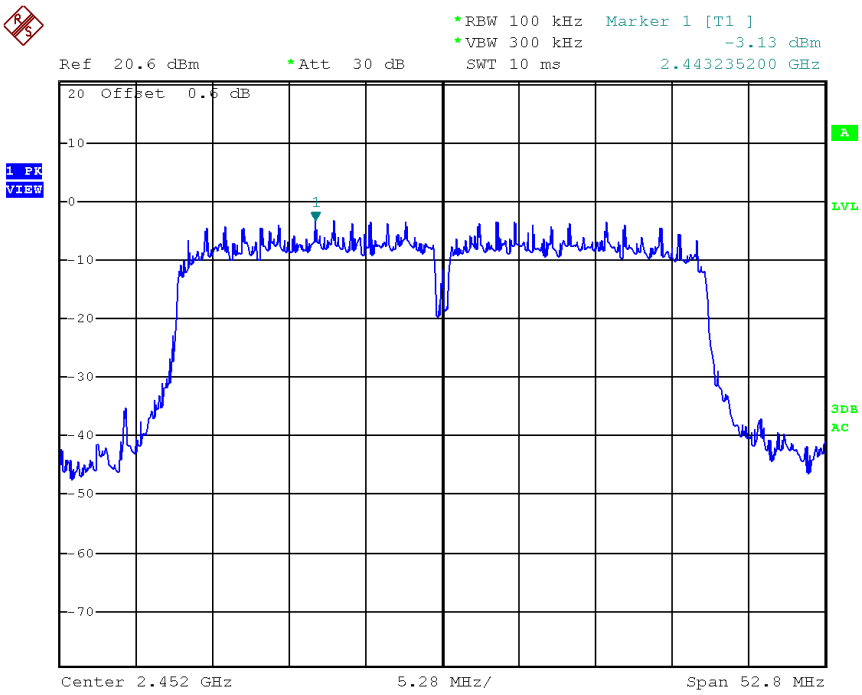

*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-0.36 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 5 ms
2.438272000 GHz
20 Offset 0.6 dB
1 PK VIEW
A
LVL
3DB AC
Center 2.437 GHz
2.544 MHz/
Span 25.44 MHz


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-1.08 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 5 ms
2.463232640 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.462 GHz
2.568 MHz/
Span 25.68 MHz

802.11 n-HT40


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-2.74 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 10 ms
2.425801600 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.422 GHz
5.28 MHz/
Span 52.8 MHz


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-2.91 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 10 ms
2.428235200 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.437 GHz
5.28 MHz/
Span 52.8 MHz


*RBW 100 kHz
Marker 1 [T1]
*VBW 300 kHz
-3.13 dBm
Ref 20.6 dBm
*Att 30 dB
SWT 10 ms
2.443235200 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
LVL
3DB
AC
Center 2.452 GHz
5.28 MHz/
Span 52.8 MHz

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

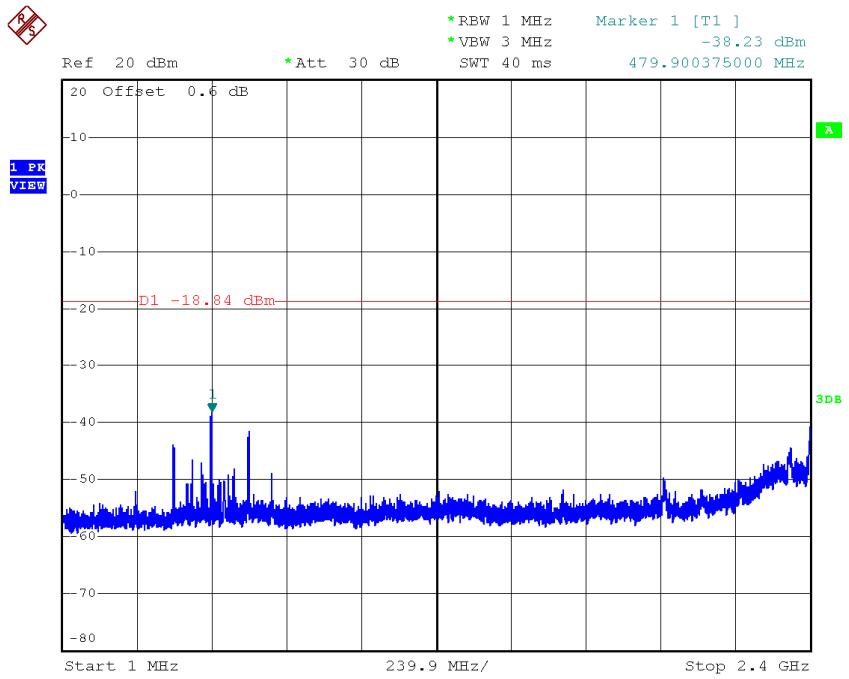
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. The Measurement Procedure was set according to the FCC KDB 558074.

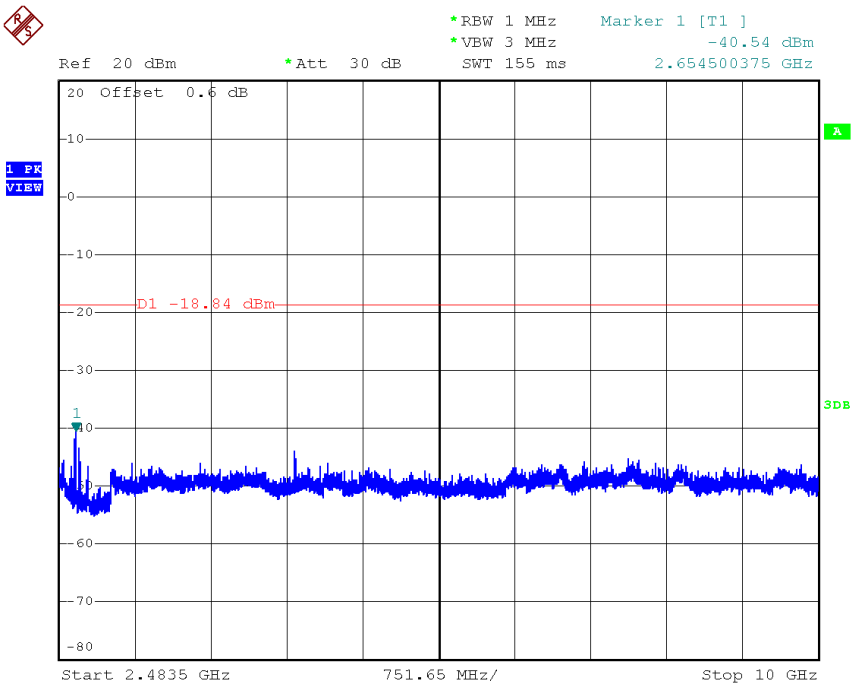
Refer to the attached test plots for out of band conducted emissions data with rate of 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n-HT20 and 13.5Mbps for 802.11n-HT40.

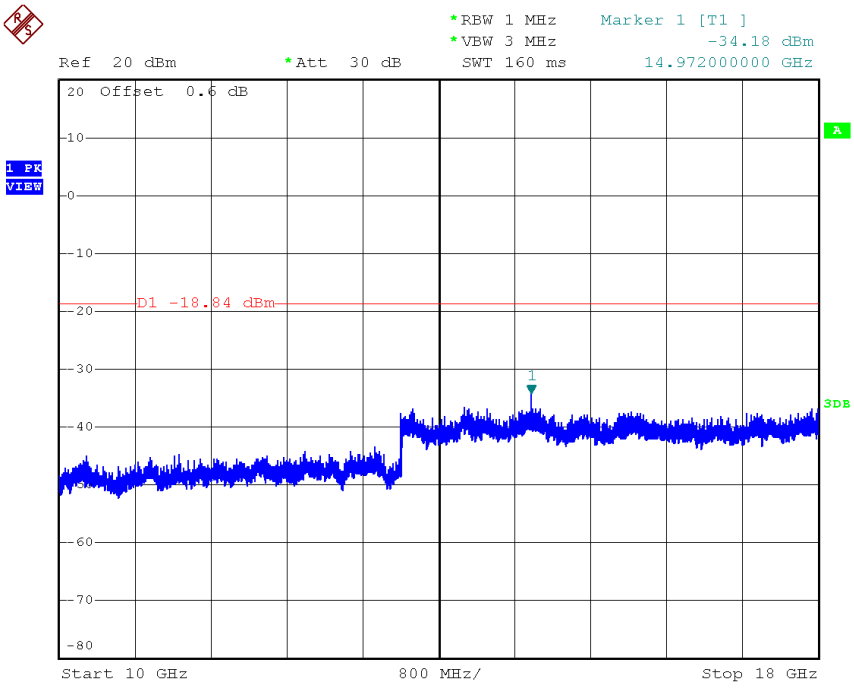
The test plots showed all spurious emission up to the tenth harmonic was measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

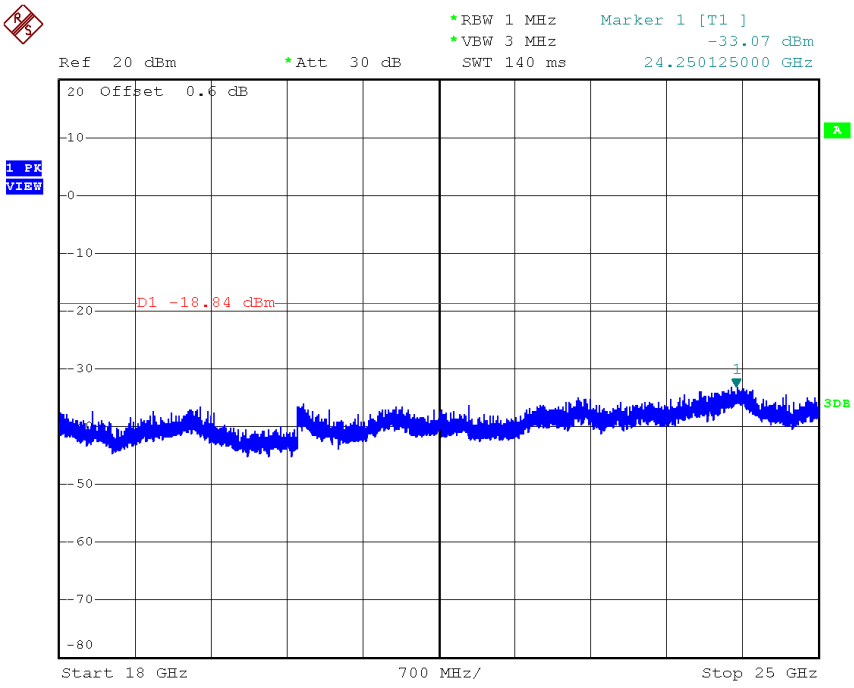
The test plots are attached as below.

802.11b
Channel 01 (2412MHz) Reference Level: 1.16dBm

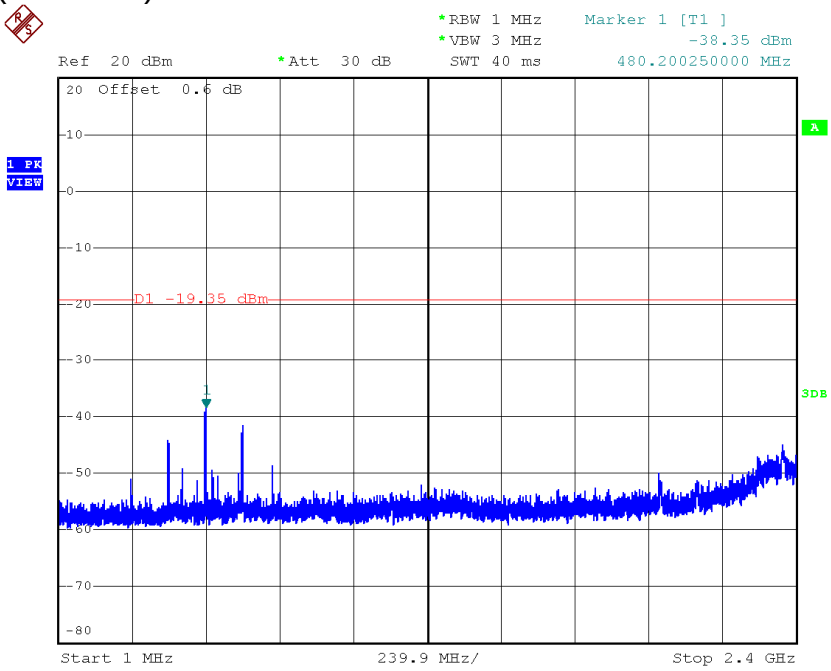


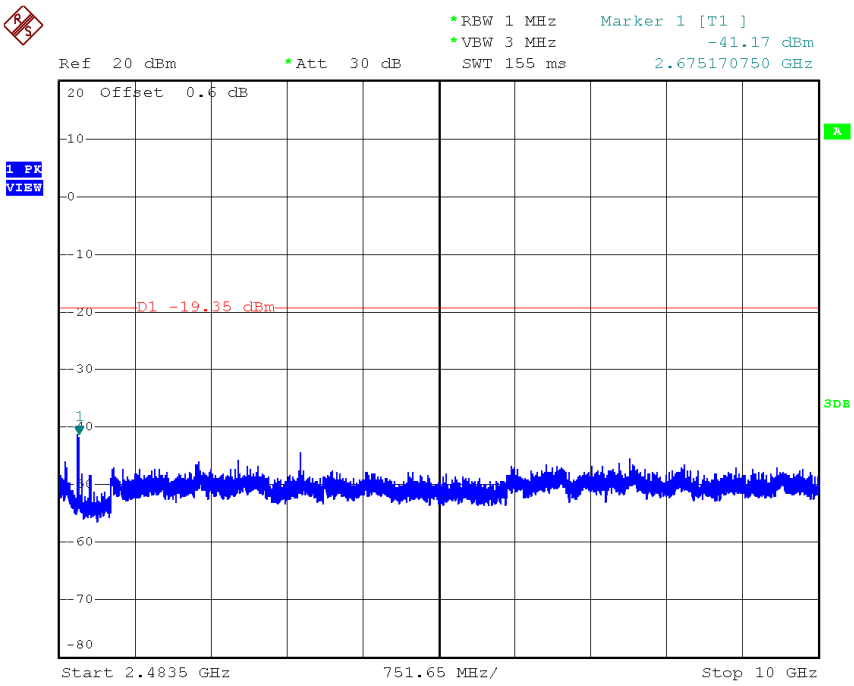


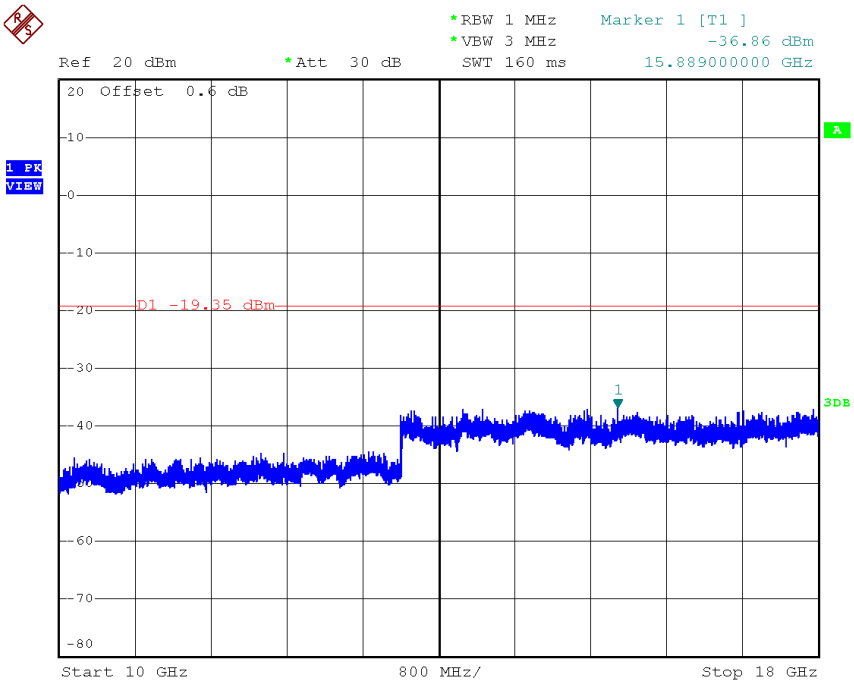

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-34.18 dBm
14.972000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -18.84 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

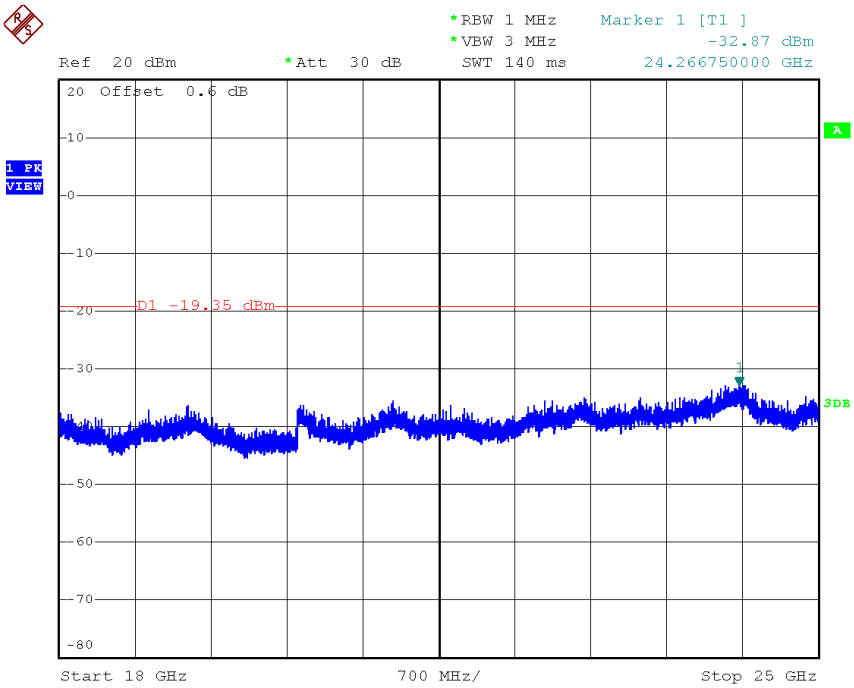

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-33.07 dBm
24.250125000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -18.84 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 06 (2437MHz) Reference Level: 0.65dBm

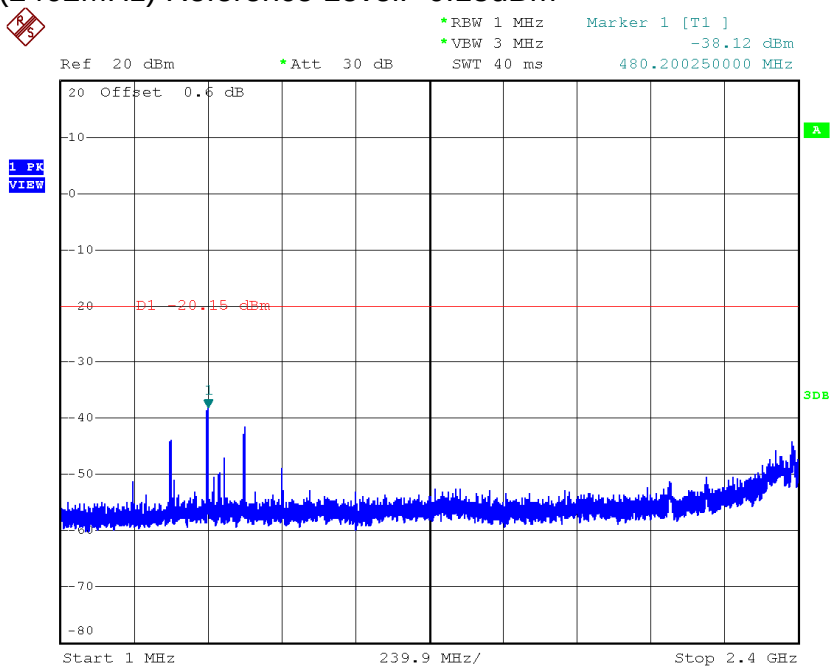


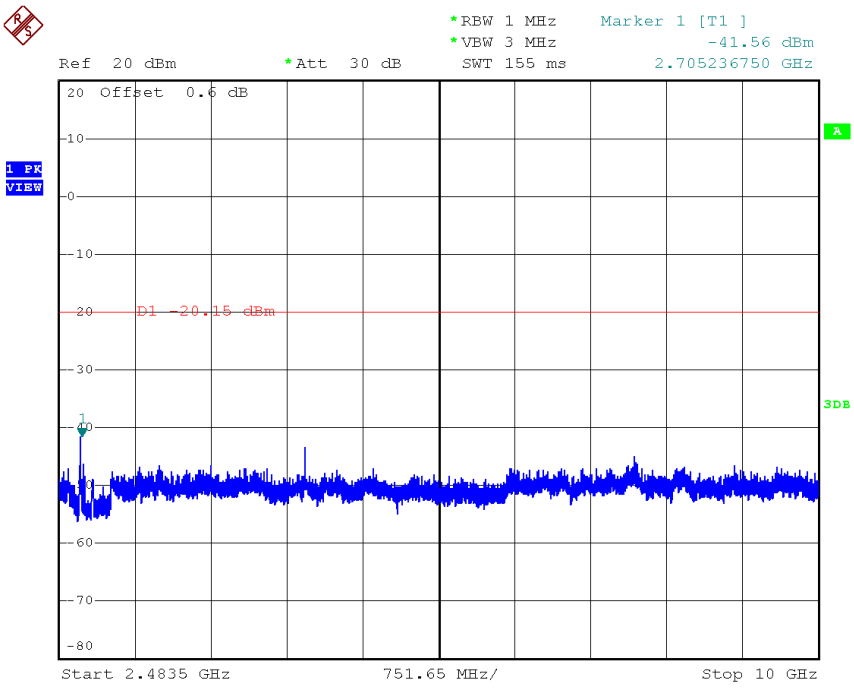


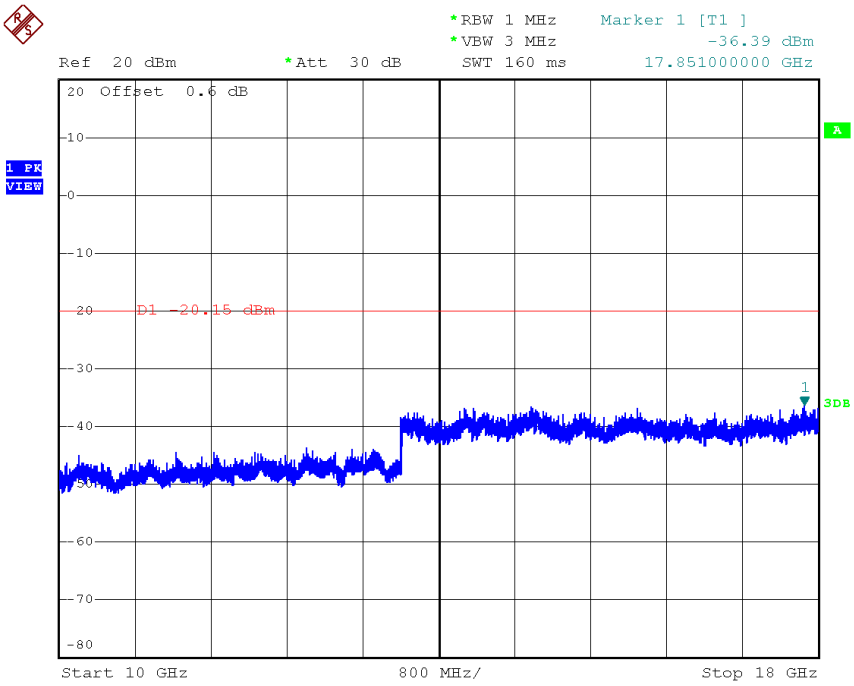

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.86 dBm
15.889000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -19.35 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

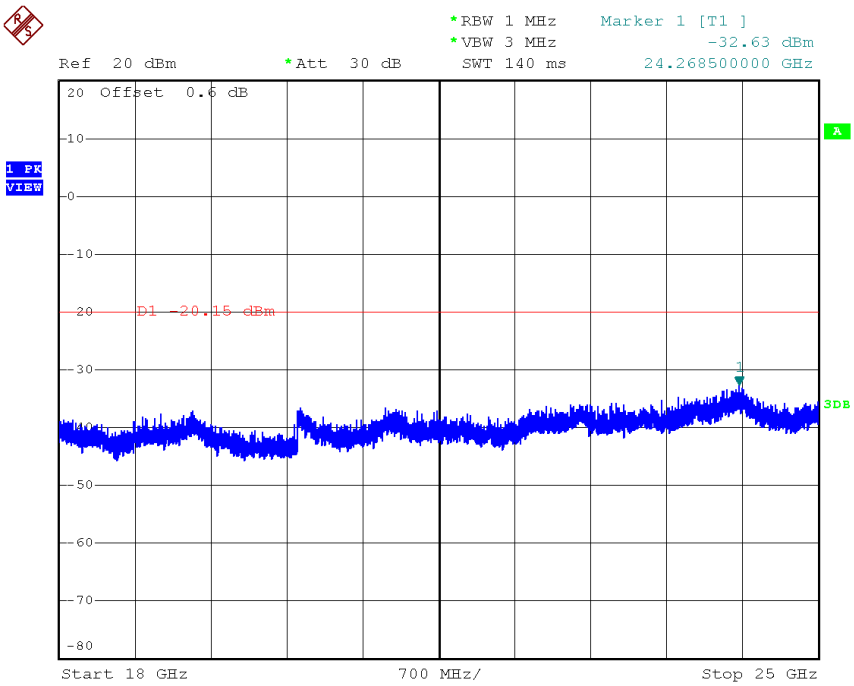

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.87 dBm
24.266750000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -19.35 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 11 (2462MHz) Reference Level: -0.15dBm

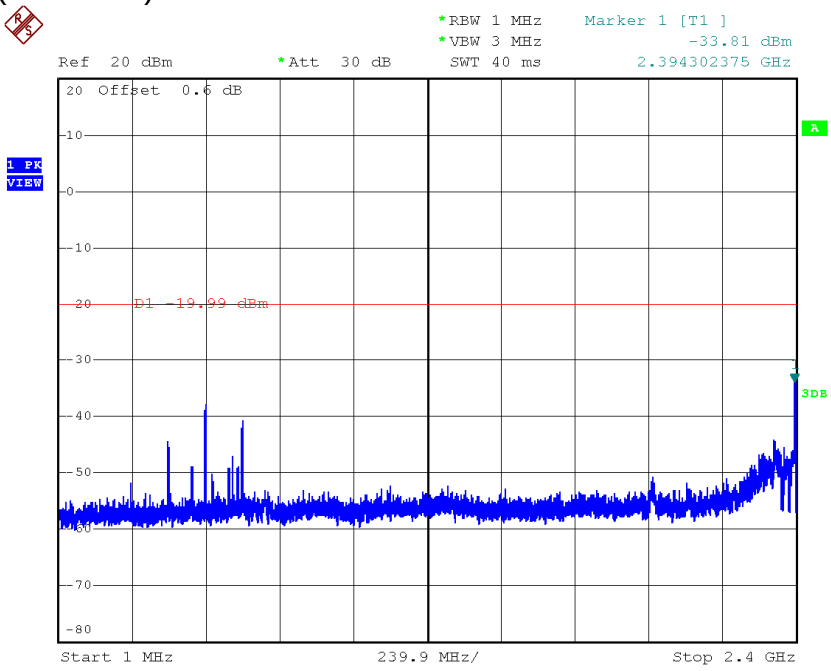


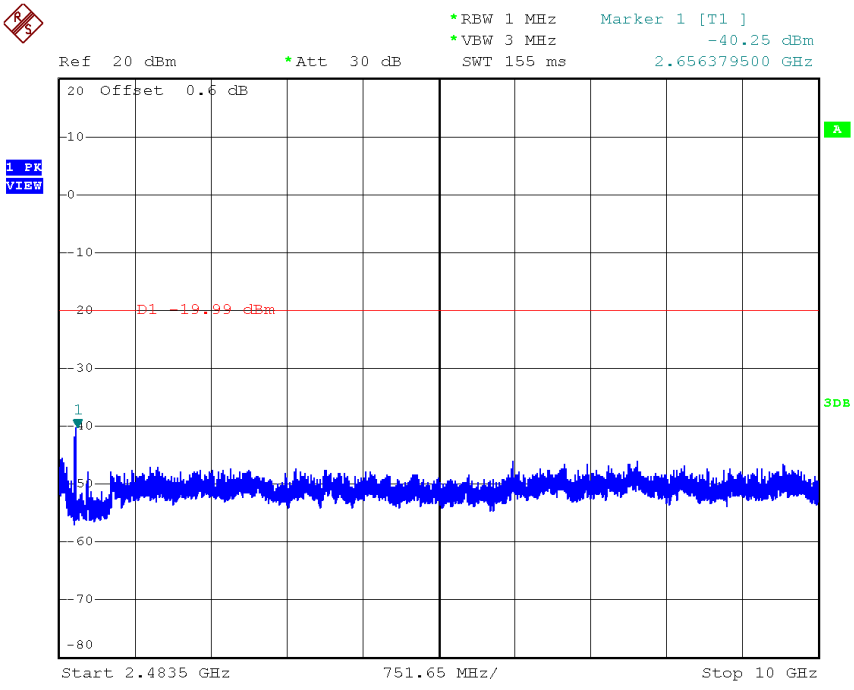


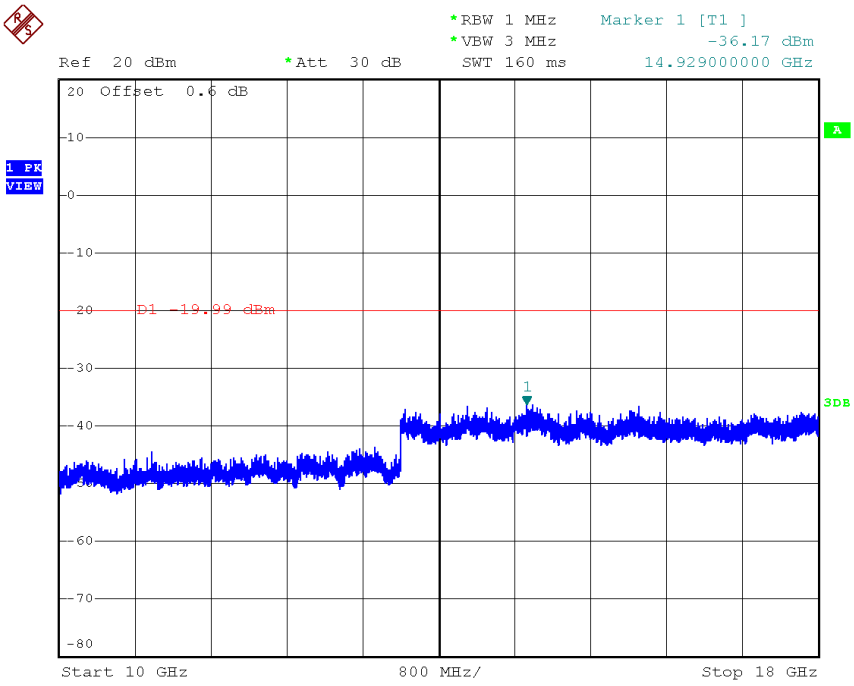

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.39 dBm
17.851000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -20.15 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

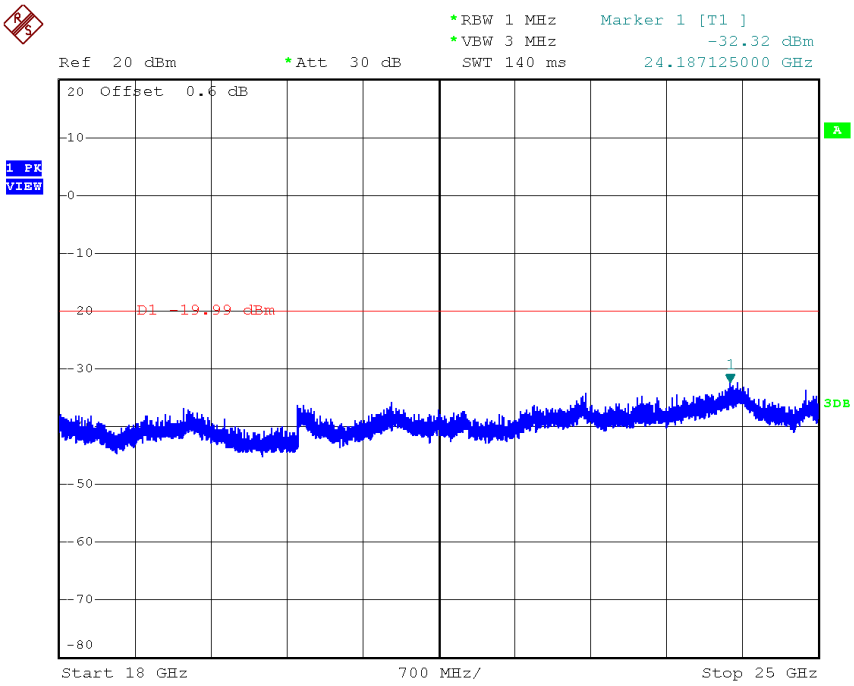

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.63 dBm
24.268500000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -20.15 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

802.11g
Channel 01 (2412MHz) Reference Level: 0.01dBm

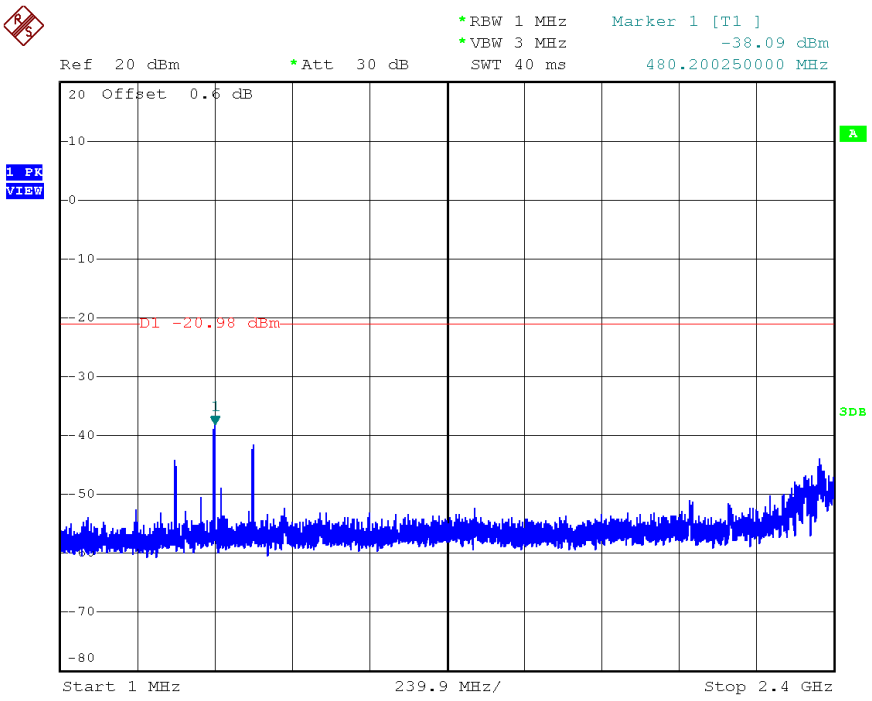


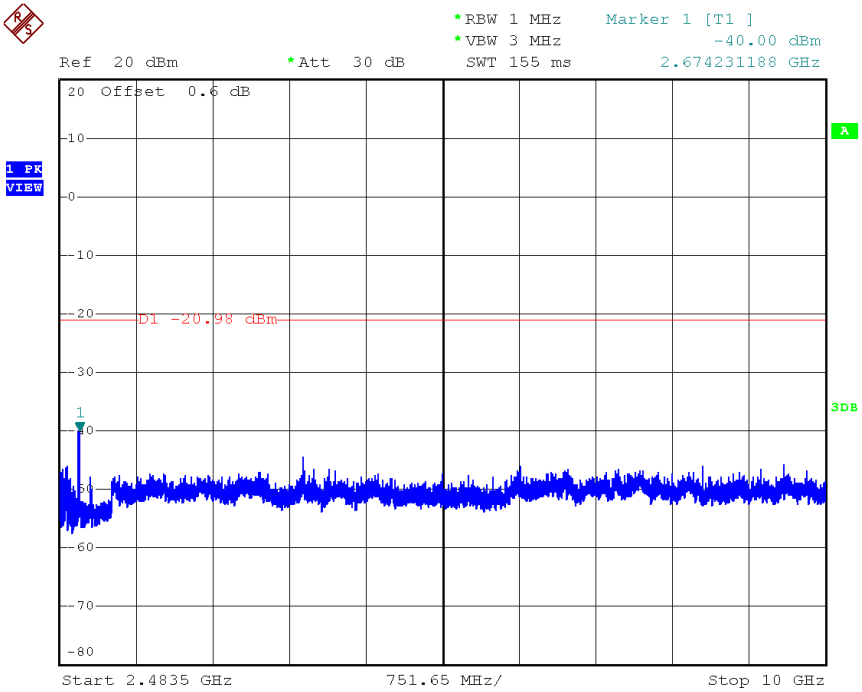


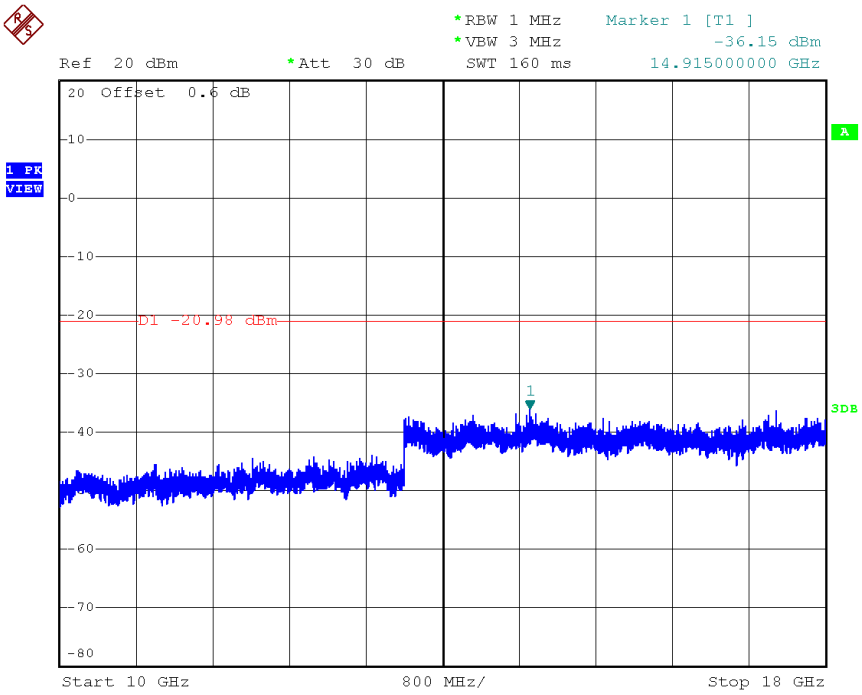

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.17 dBm
14.929000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
D1 -19.99 dBm
A
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

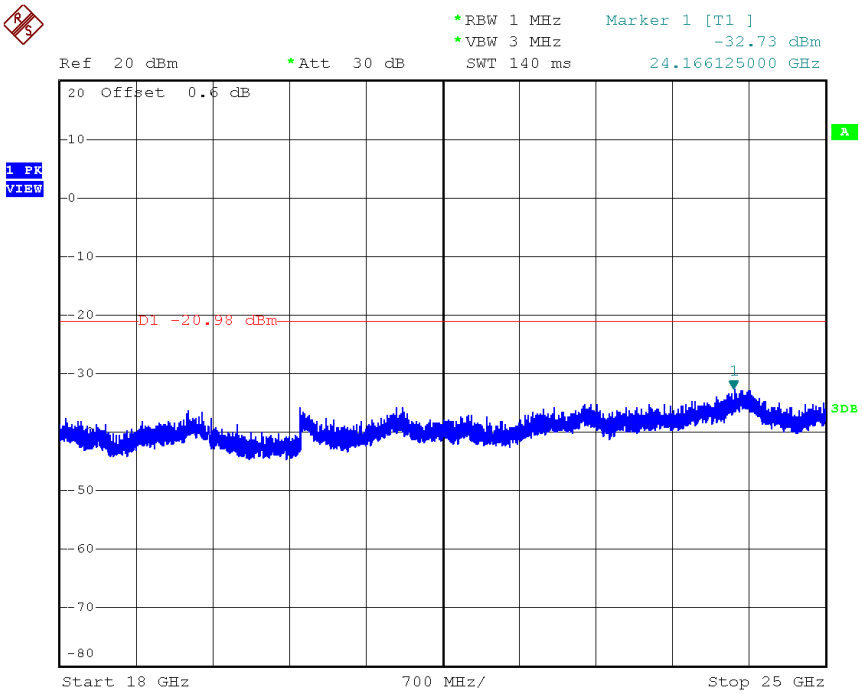

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.32 dBm
24.187125000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
D1 -19.99 dBm
A
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 06 (2437MHz) Reference Level: -0.98dBm

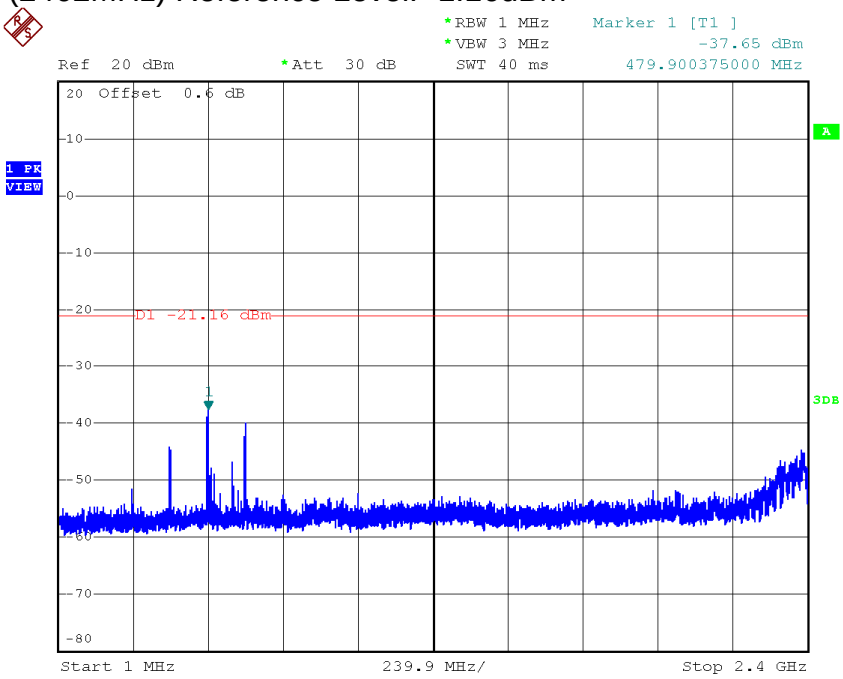


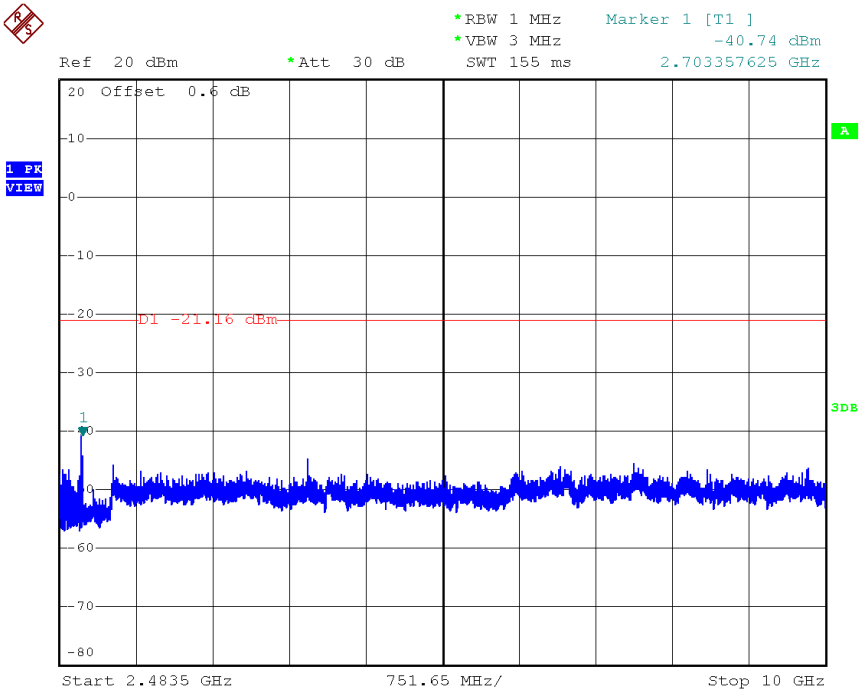


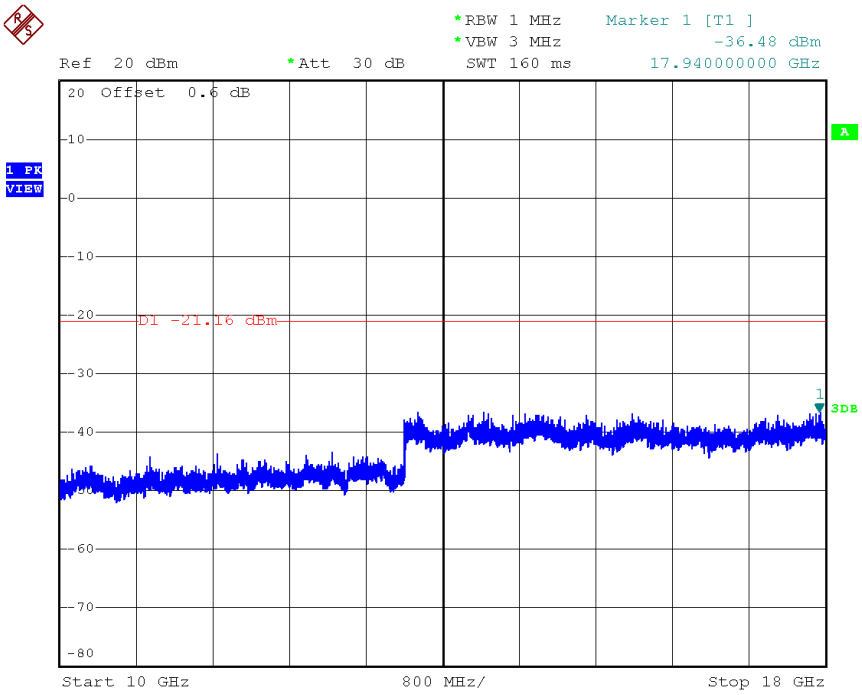

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-36.15 dBm
Ref 20 dBm
*Att 30 dB
SWT 160 ms
14.915000000 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -20.98 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

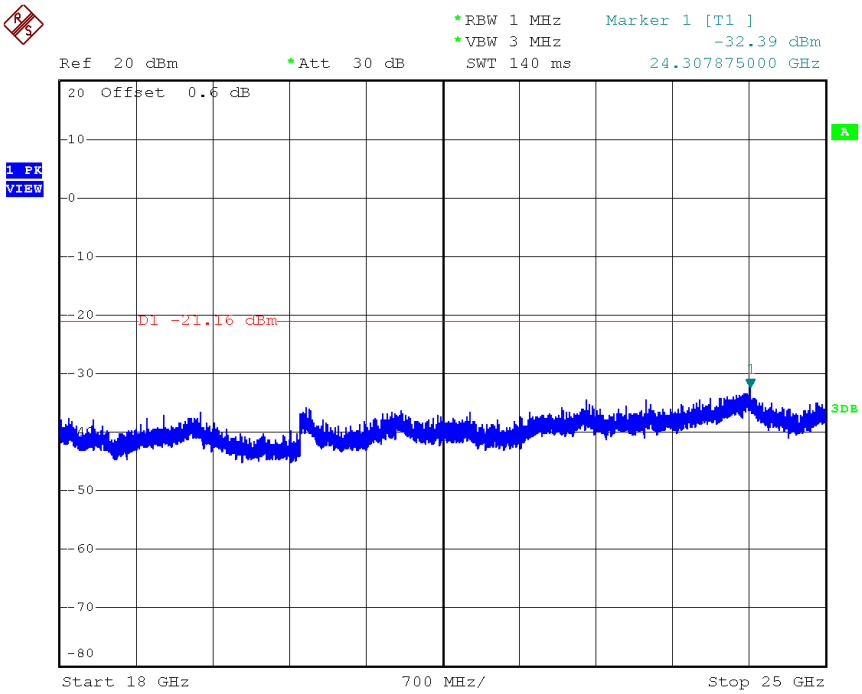

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-32.73 dBm
Ref 20 dBm
*Att 30 dB
SWT 140 ms
24.166125000 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -20.98 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 11 (2462MHz) Reference Level: -1.16dBm

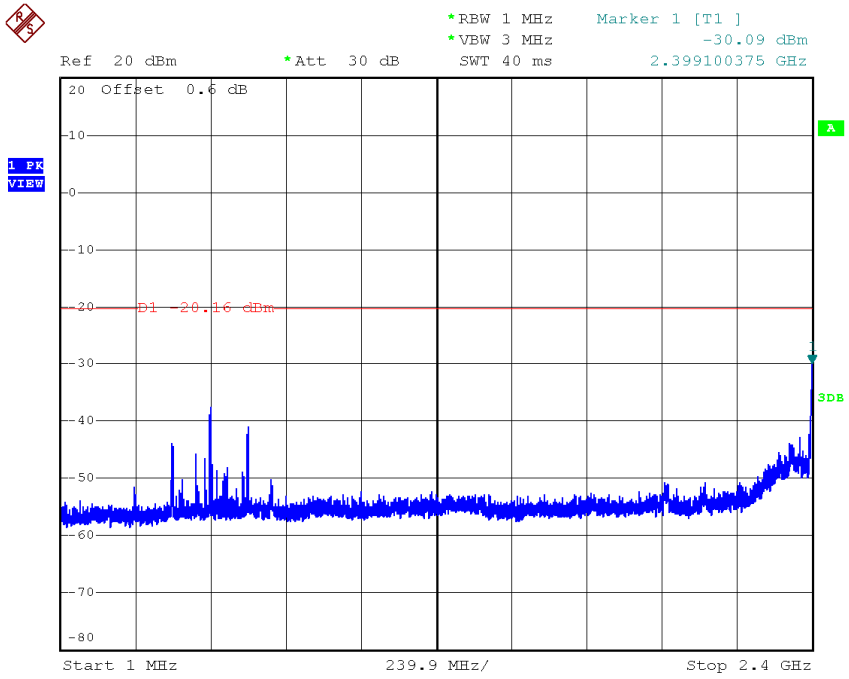


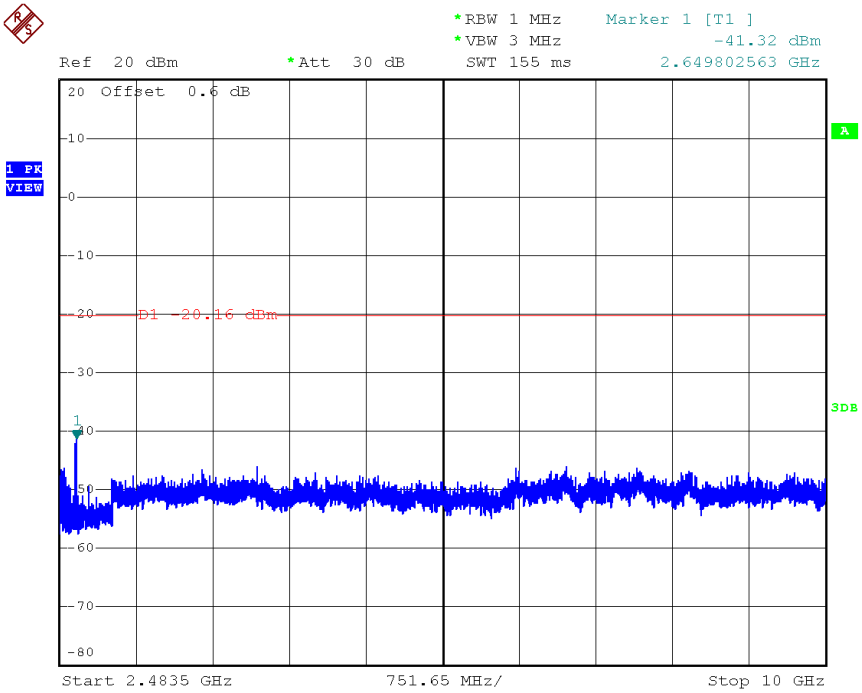


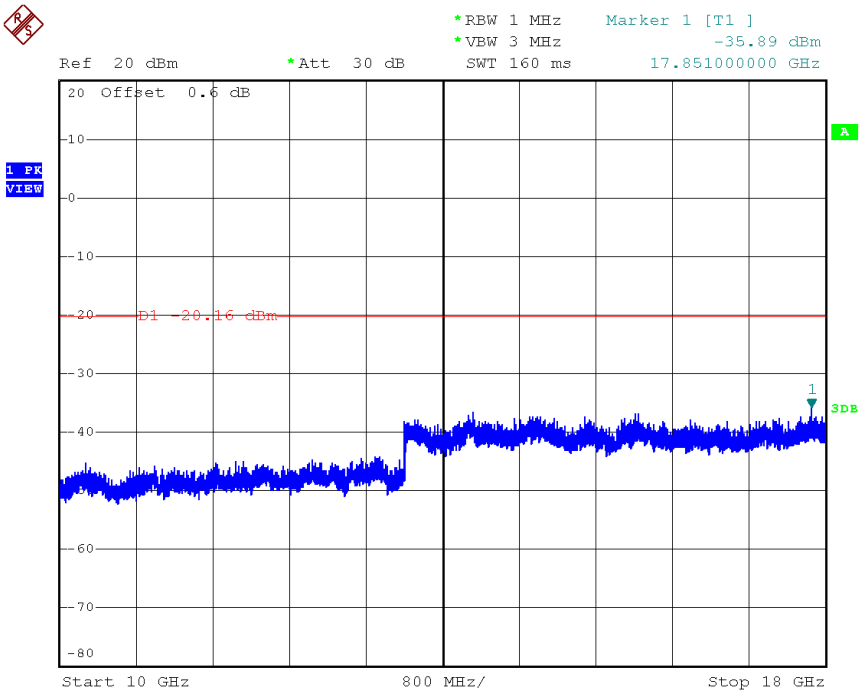

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-36.48 dBm
Ref 20 dBm
*Att 30 dB
SWT 160 ms
17.940000000 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -21.16 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

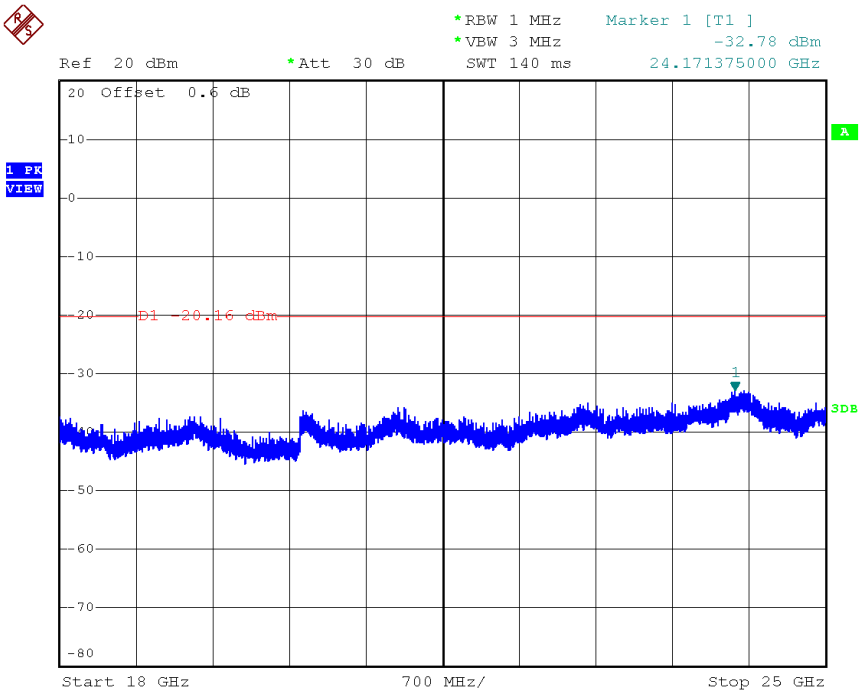

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-32.39 dBm
Ref 20 dBm
*Att 30 dB
SWT 140 ms
24.307875000 GHz
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -21.16 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

802.11 n-HT20
Channel 01 (2412MHz) Reference Level: -0.16dBm

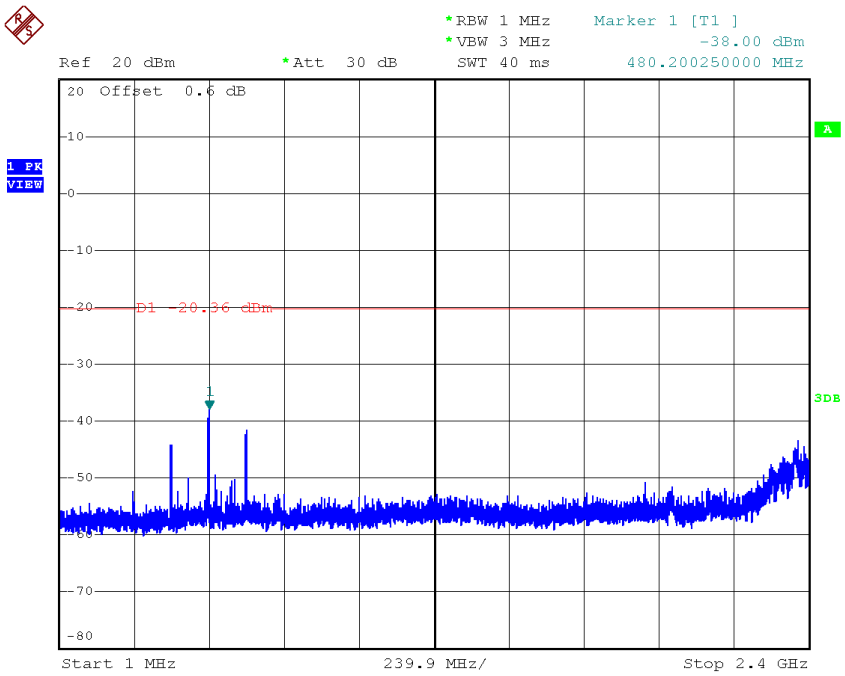


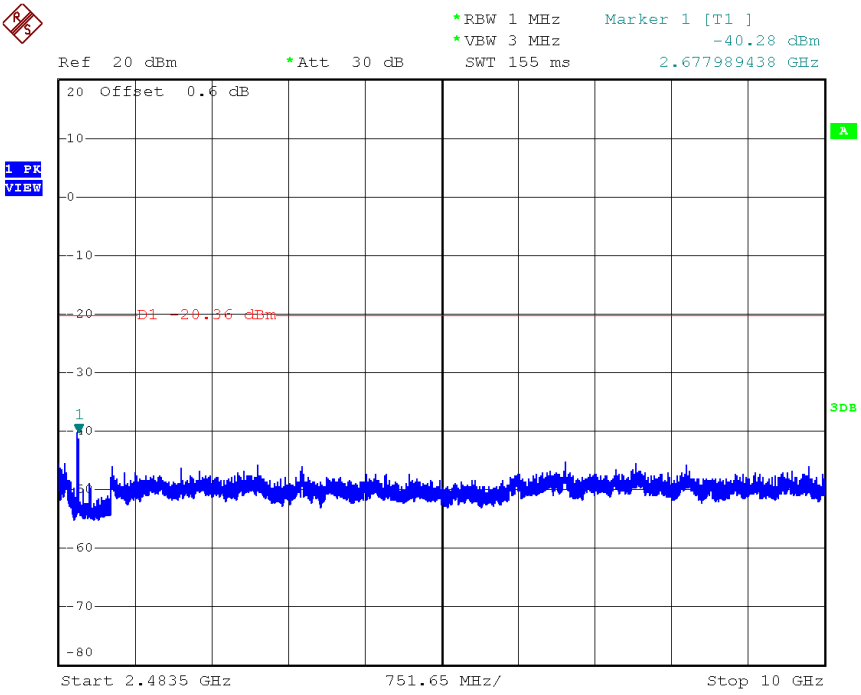


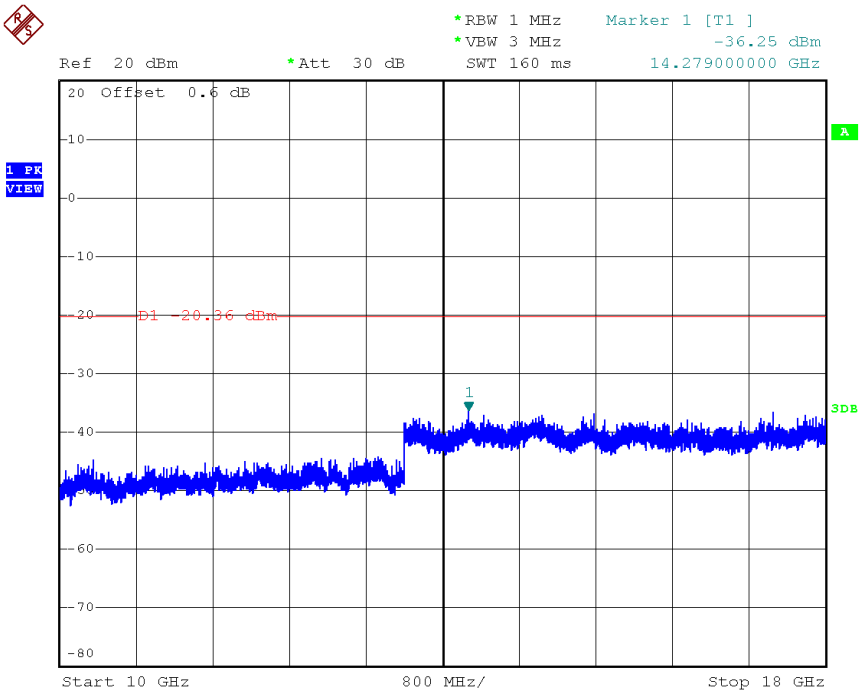

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-35.89 dBm
Ref 20 dBm
*Att 30 dB
SWT 160 ms
17.851000000 GHz
20 Offset 0.6 dB
1 PK VIEW
A
D1 -20.16 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

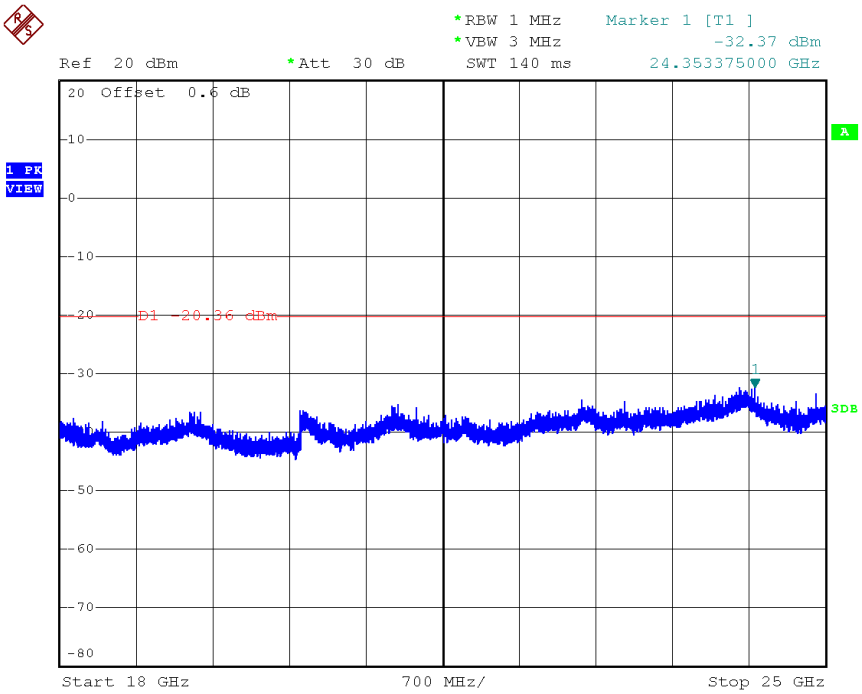

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-32.78 dBm
Ref 20 dBm
*Att 30 dB
SWT 140 ms
24.171375000 GHz
20 Offset 0.6 dB
1 PK VIEW
A
D1 -20.16 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 06 (2437MHz) Reference Level: -0.36dBm

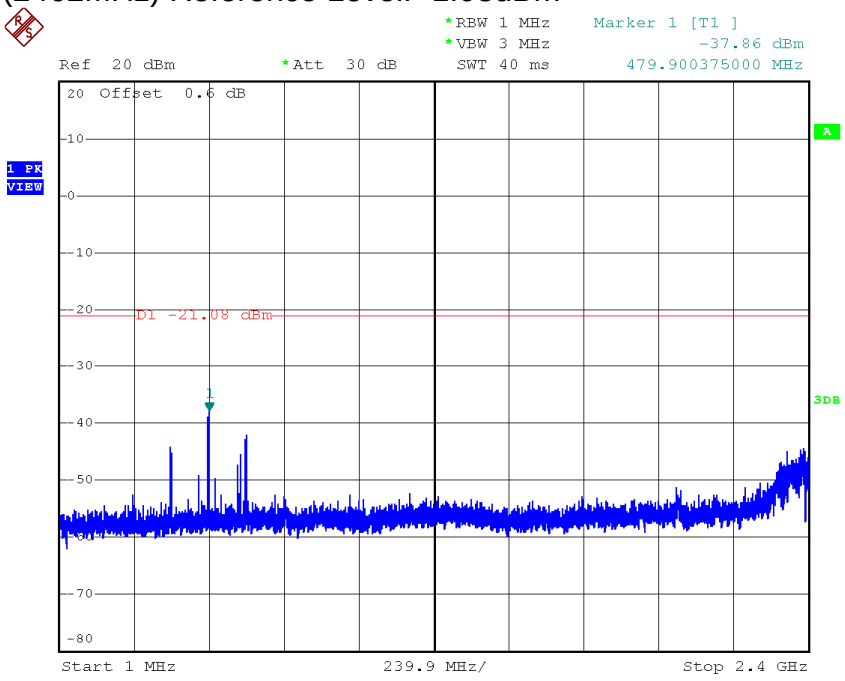


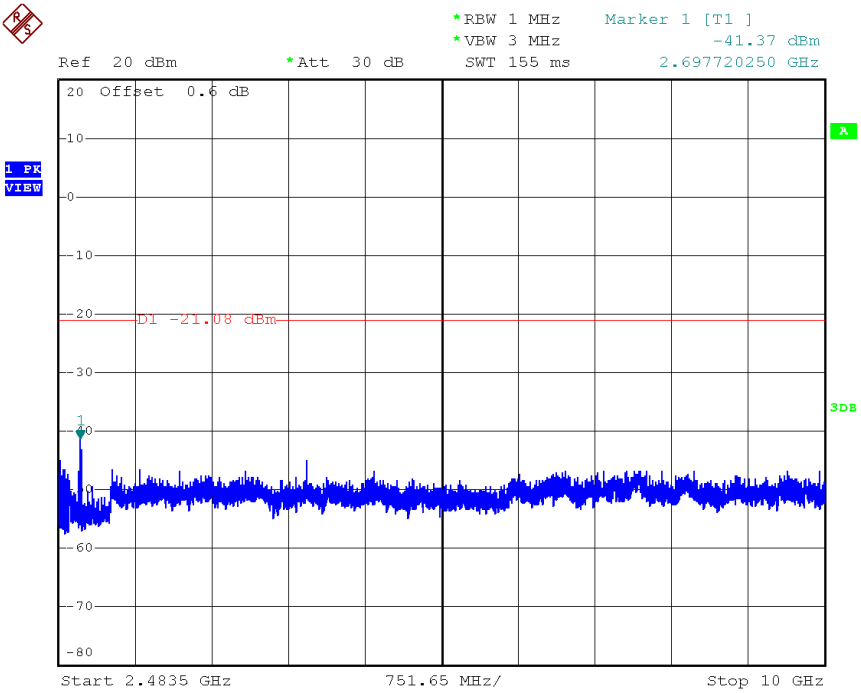


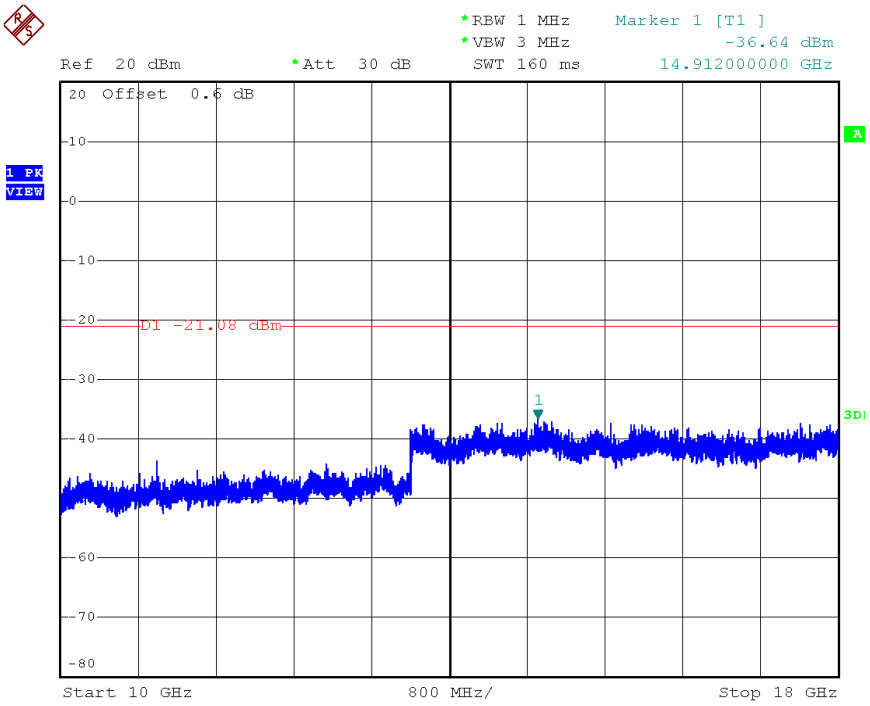

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.25 dBm
14.279000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
A
D1 -20.36 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

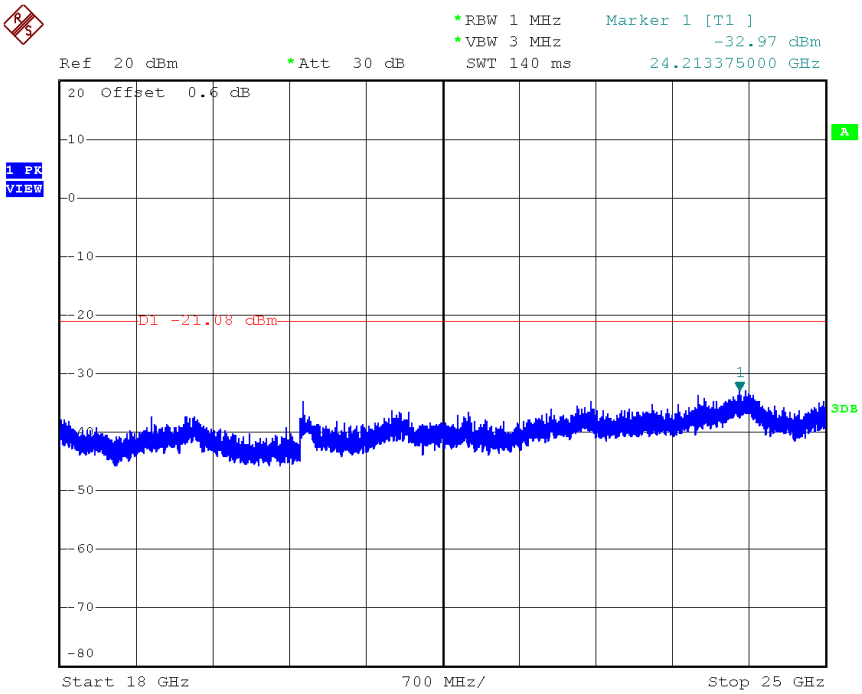

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.37 dBm
24.353375000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
A
D1 -20.36 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 11 (2462MHz) Reference Level: -1.08dBm

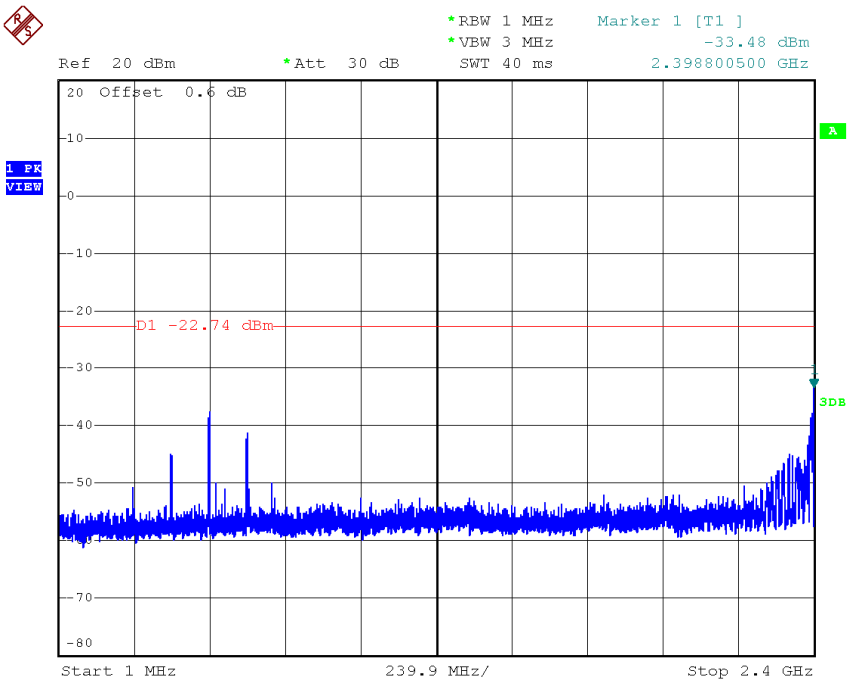


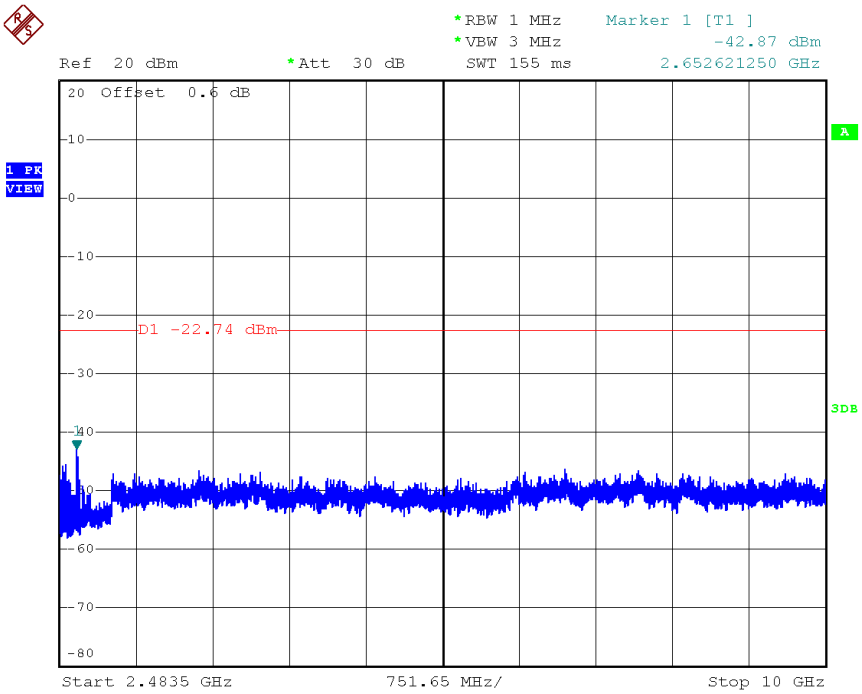


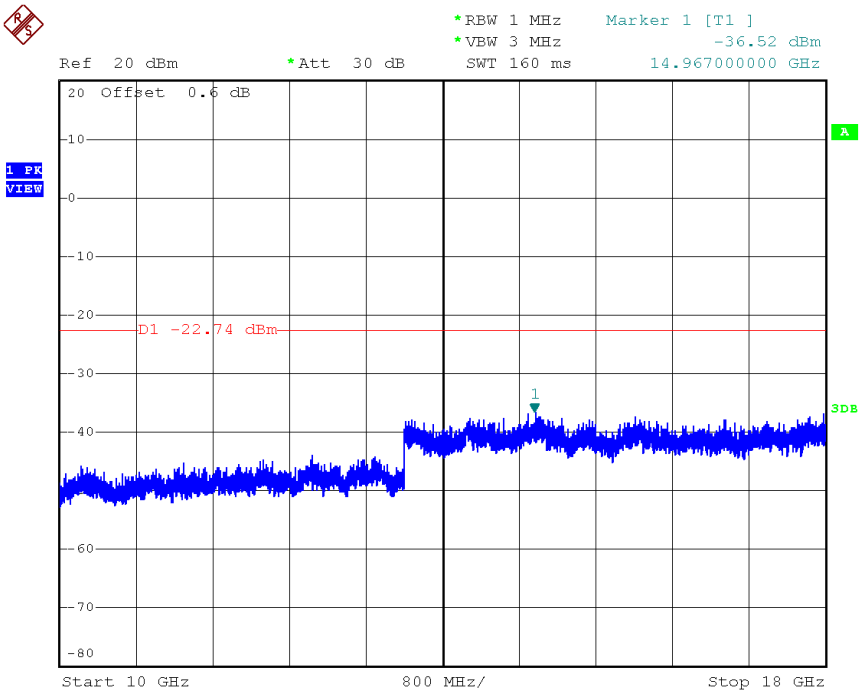

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.64 dBm
14.912000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -21.08 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

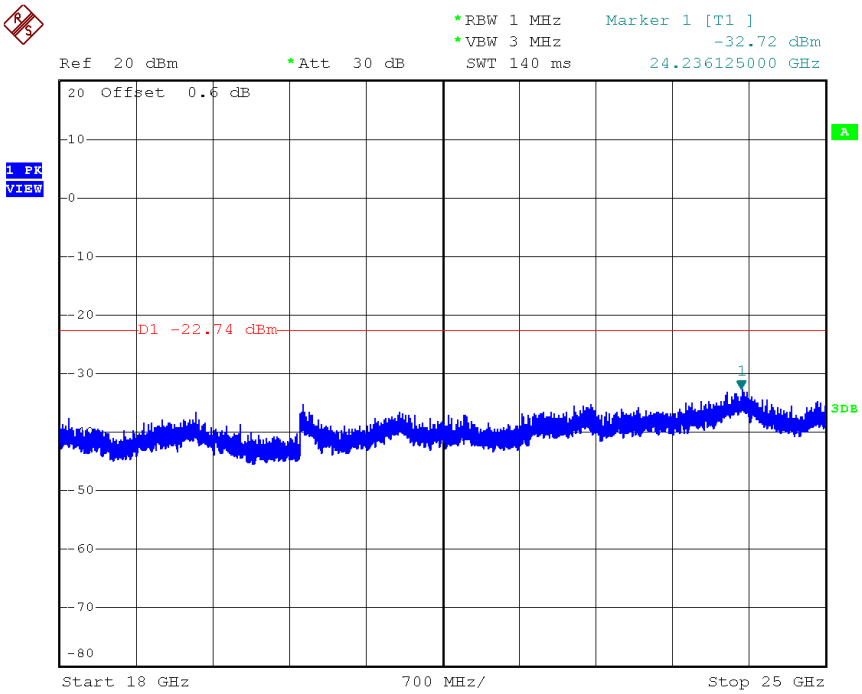

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.97 dBm
24.213375000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK VIEW
D1 -21.08 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

802.11 n-HT40
Channel 03 (2422MHz) Reference Level: -2.74dBm

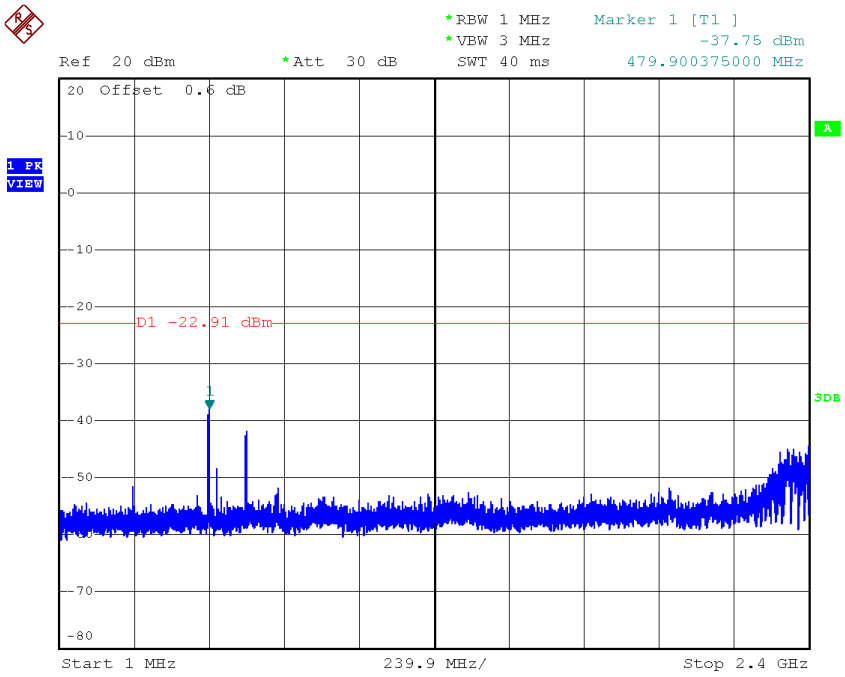


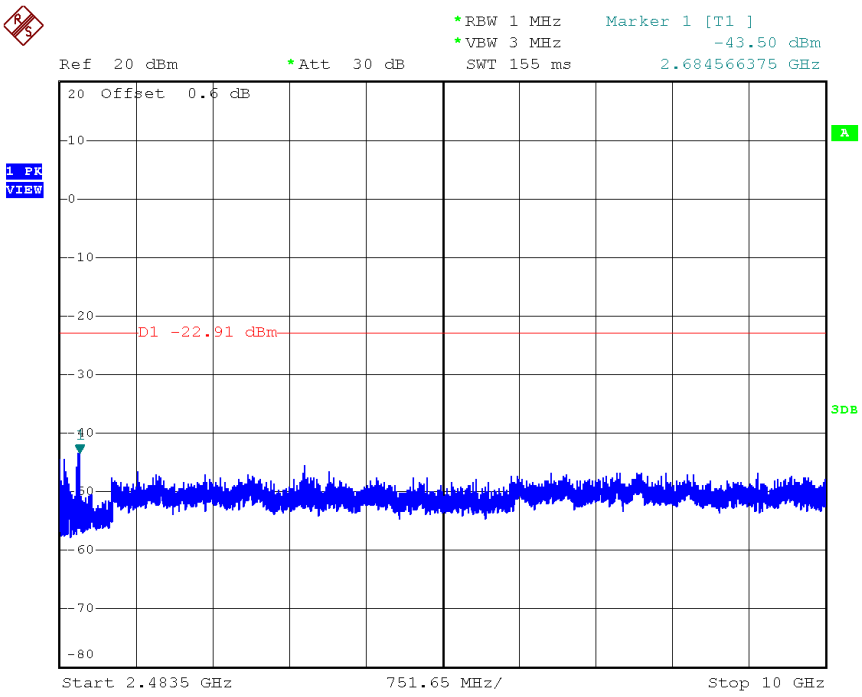


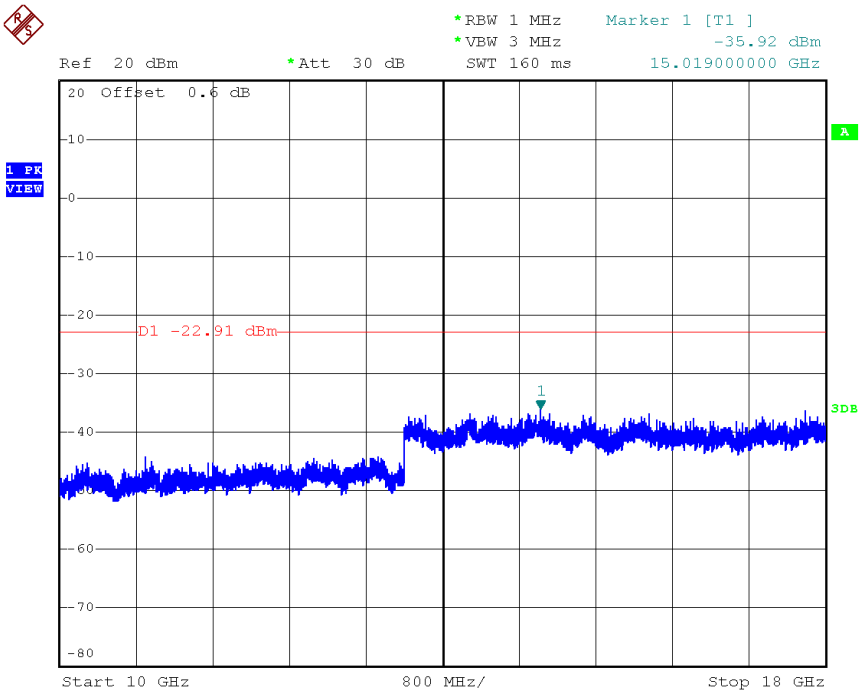

*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.52 dBm
14.967000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -22.74 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

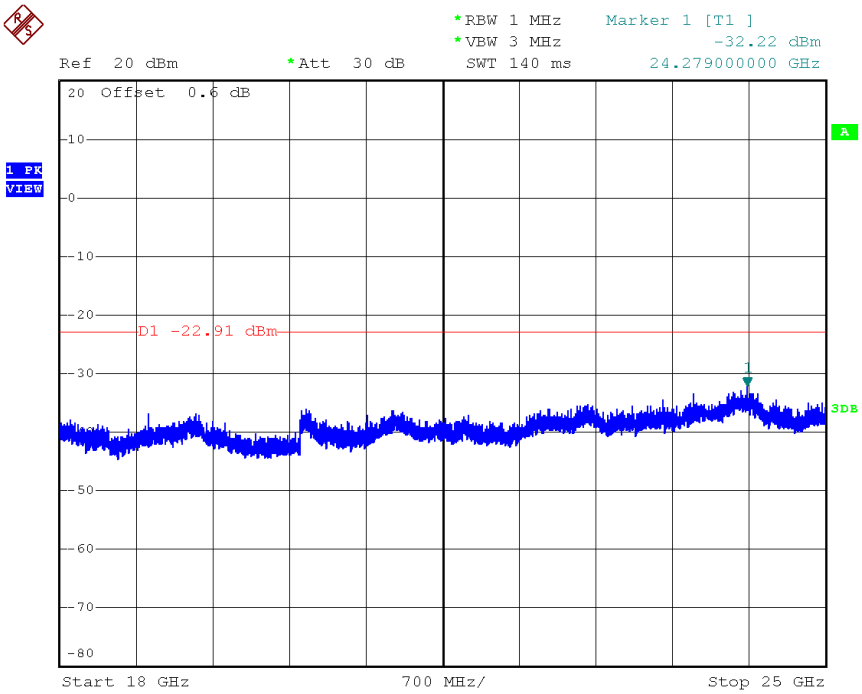

*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.72 dBm
24.236125000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -22.74 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 06 (2437MHz) Reference Level: -2.91dBm

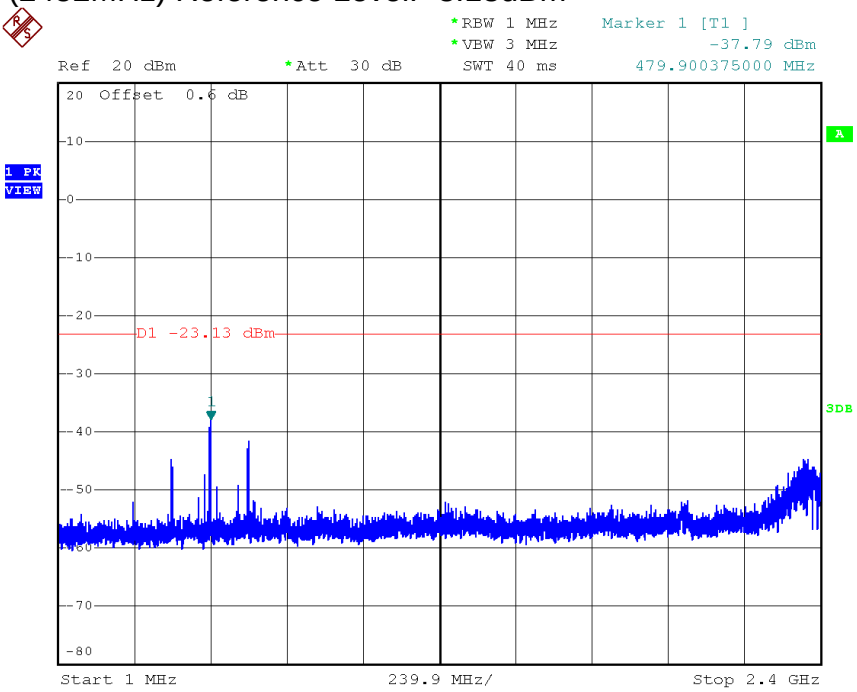


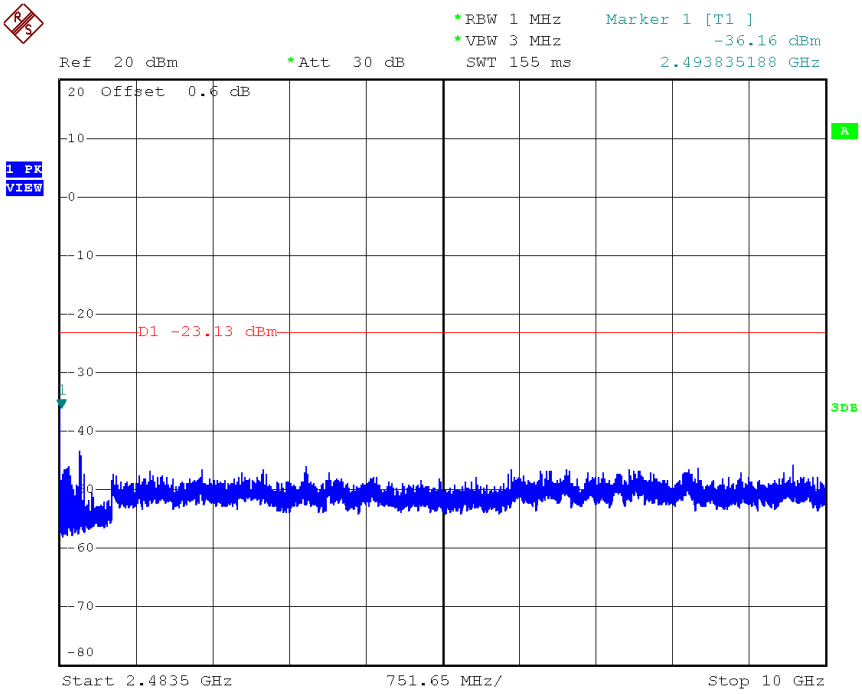


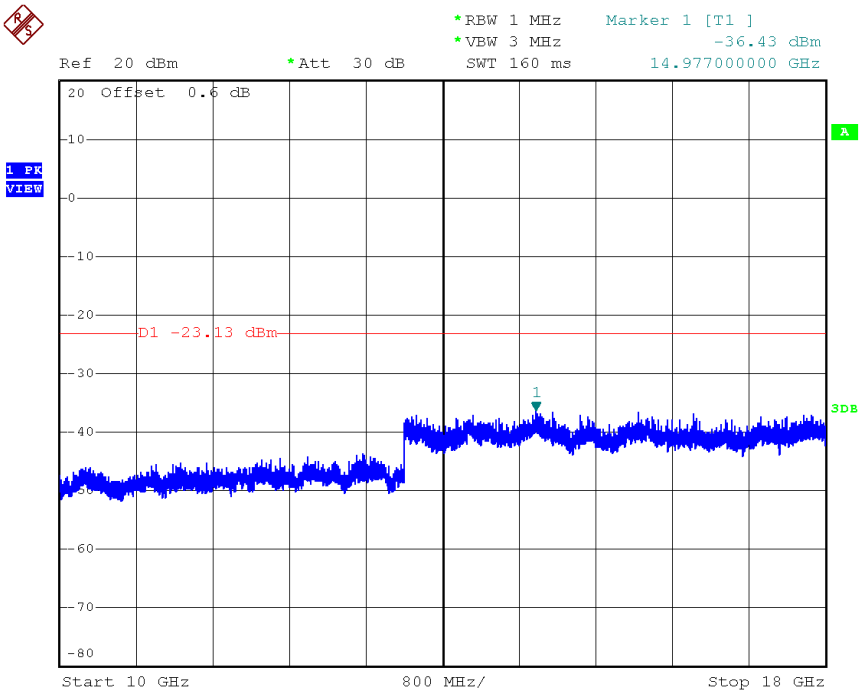

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-35.92 dBm
Ref 20 dBm
*Att 30 dB
SWT 160 ms
15.019000000 GHz
20 Offset 0.6 dB
1 PK VIEW
A
D1 -22.91 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz

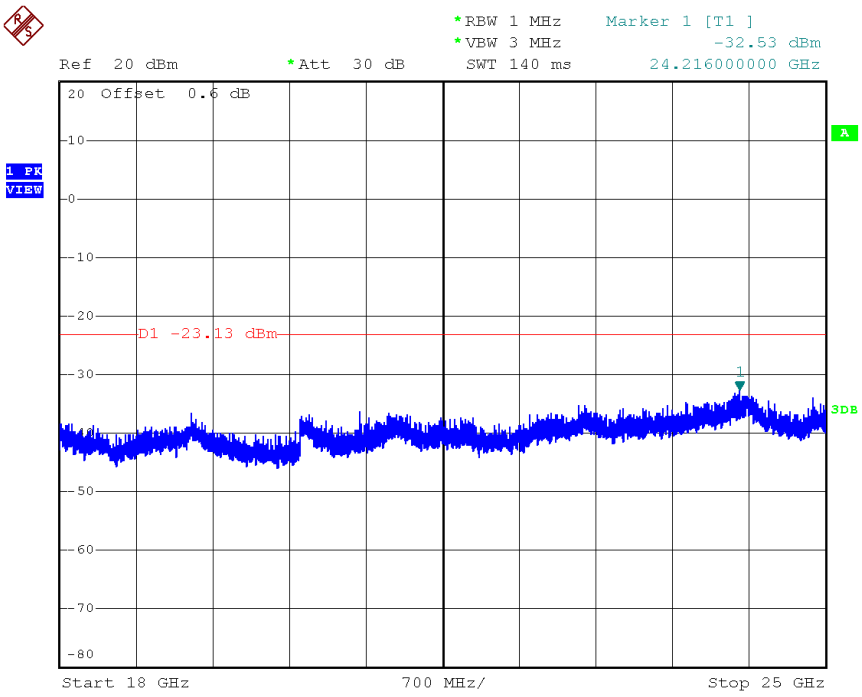

*RBW 1 MHz
Marker 1 [T1]
*VBW 3 MHz
-32.22 dBm
Ref 20 dBm
*Att 30 dB
SWT 140 ms
24.279000000 GHz
20 Offset 0.6 dB
1 PK VIEW
A
D1 -22.91 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

Channel 09 (2452MHz) Reference Level: -3.13dBm






*RBW 1 MHz
*VBW 3 MHz
SWT 160 ms
Marker 1 [T1]
-36.43 dBm
14.977000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -23.13 dBm
3DB
Start 10 GHz
800 MHz/
Stop 18 GHz


*RBW 1 MHz
*VBW 3 MHz
SWT 140 ms
Marker 1 [T1]
-32.53 dBm
24.216000000 GHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.6 dB
1 PK
VIEW
A
D1 -23.13 dBm
3DB
Start 18 GHz
700 MHz/
Stop 25 GHz

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

[×] Not required, since all emissions are more than 20dB below fundamental
[ ] See attached data sheet

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included. All measurements were performed with peak detection unless otherwise specified.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD

Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD

Example
Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 dBμV/m

Level in mV/m = Common Antilogarithm [(42 dBμV/m)/20] = 125.9 μV/m

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.8 Radiated Spurious Emission

Worst Case Radiated Spurious Emission (802.11g) at 4824.000MHz is passed by 2.3dB margin.

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Worst Case Operating Mode: 802.11 n-HT20 (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	169.195	39.0	20.0	9.1	28.1	43.5	-15.4
Horizontal	599.875	31.5	20.0	20.8	32.3	46.0	-13.7
Horizontal	959.956	33.2	20.0	24.0	37.2	46.0	-8.8
Vertical	49.414	47.1	20.0	9.4	36.5	40.0	-3.5
Vertical	98.385	50.7	20.0	9.1	39.8	43.5	-3.7
Vertical	101.885	51.3	20.0	9.0	40.3	43.5	-3.2

NOTES:
1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11b (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	57.4	36.7	34.2	54.9	74.0	-19.1
Vertical	7236.000	52.7	36.7	36.9	52.9	74.0	-21.1
Vertical	9648.000	53.7	36.1	37.1	54.7	74.0	-19.3
Vertical	2388.450	49.4	36.2	28.2	41.4	74.0	-32.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	51.2	36.7	34.2	48.7	54.0	-5.3
Vertical	7236.000	39.1	36.7	36.9	39.3	54.0	-14.7
Vertical	9648.000	40.4	36.1	37.1	41.4	54.0	-12.6
Vertical	2388.450	37.0	36.2	28.2	29.0	54.0	-25.0

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11b (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	55.3	36.7	34.6	53.2	74.0	-20.8
Vertical	7311.000	51.7	36.7	37.1	52.1	74.0	-21.9
Vertical	9478.000	57.2	36.1	33.9	55.0	74.0	-19.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	50.2	36.7	34.6	48.1	54.0	-5.9
Vertical	7311.000	39.8	36.7	37.1	40.2	54.0	-13.8
Vertical	9478.000	45.2	36.1	33.9	43.0	54.0	-11.0

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11b (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	56.1	36.7	34.6	54.0	74.0	-20.0
Vertical	7386.000	52.5	36.7	37.2	53.0	74.0	-21.0
Vertical	9848.000	54.1	36.1	37.8	55.8	74.0	-18.2
Vertical	2483.924	50.3	36.2	28.0	42.1	74.0	-31.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	51.1	36.7	34.6	49.0	54.0	-5.0
Vertical	7386.000	39.5	36.7	37.2	40.0	54.0	-14.0
Vertical	9848.000	40.4	36.1	37.8	42.1	54.0	-11.9
Vertical	2483.924	38.3	36.2	28.0	30.1	54.0	-23.9

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11g (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	69.4	36.7	34.2	66.9	74.0	-7.1
Vertical	7236.000	63.8	36.7	36.9	64.0	74.0	-10.0
Vertical	9648.000	54.1	36.1	36.5	54.5	74.0	-19.5
Vertical	2388.710	48.3	36.2	27.8	39.9	74.0	-34.1

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	54.2	36.7	34.2	51.7	54.0	-2.3
Vertical	7236.000	49.4	36.7	36.9	49.6	54.0	-4.4
Vertical	9648.000	41.6	36.1	36.5	42.0	54.0	-12.0
Vertical	2388.710	37.3	36.2	27.8	28.9	54.0	-25.1

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11g (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	65.8	36.7	34.6	63.7	74.0	-10.3
Vertical	7311.000	56.2	36.7	37.1	56.6	74.0	-17.4
Vertical	9748.000	55.7	36.1	37.6	57.2	74.0	-16.8

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	50.5	36.7	34.6	48.4	54.0	-5.6
Vertical	7311.000	44.3	36.7	37.1	44.7	54.0	-9.3
Vertical	9748.000	40.6	36.1	37.6	42.1	54.0	-11.9

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11g (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	66.4	36.7	34.6	64.3	74.0	-9.7
Vertical	7386.000	53.4	36.7	37.2	53.9	74.0	-20.1
Vertical	9848.000	53.8	36.1	38.4	56.1	74.0	-17.9
Vertical	2484.320	50.3	36.2	28.0	42.1	74.0	-31.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	48.4	36.7	34.6	46.3	54.0	-7.7
Vertical	7386.000	39.6	36.7	37.2	40.1	54.0	-13.9
Vertical	9848.000	39.7	36.1	38.4	42.0	54.0	-12.0
Vertical	2484.320	37.6	36.2	28.0	29.4	54.0	-24.6

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT20 (TX-Channel 01)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	68.2	36.7	34.2	65.7	74.0	-8.3
Vertical	7236.000	62.1	36.7	36.9	62.3	74.0	-11.7
Vertical	9648.000	53.8	36.1	36.8	54.5	74.0	-19.5
Vertical	2387.340	46.8	36.2	27.8	38.4	74.0	-35.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4824.000	53.7	36.7	34.2	51.2	54.0	-2.8
Vertical	7236.000	48.6	36.7	36.9	48.8	54.0	-5.2
Vertical	9648.000	41.4	36.1	36.8	42.1	54.0	-11.9
Vertical	2387.340	34.1	36.2	27.8	25.7	54.0	-28.3

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT20 (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	67.9	36.7	34.2	65.4	74.0	-8.6
Vertical	7311.000	62.2	36.7	37.1	62.6	74.0	-11.4
Vertical	9748.000	54.0	36.1	37.4	55.3	74.0	-18.7

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	53.2	36.7	34.2	50.7	54.0	-3.3
Vertical	7311.000	46.8	36.7	37.1	47.2	54.0	-6.8
Vertical	9748.000	41.5	36.1	37.4	42.8	54.0	-11.2

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT20 (TX-Channel 11)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	64.0	36.7	34.6	61.9	74.0	-12.1
Vertical	7386.000	60.2	36.7	37.2	60.7	74.0	-13.3
Vertical	9848.000	53.7	36.1	37.8	55.4	74.0	-18.6
Vertical	2384.120	50.3	36.2	27.8	41.9	74.0	-32.1

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4924.000	51.6	36.7	34.6	49.5	54.0	-4.5
Vertical	7386.000	47.0	36.7	37.2	47.5	54.0	-6.5
Vertical	9848.000	40.9	36.1	37.8	42.6	54.0	-11.4
Vertical	2384.120	35.0	36.2	27.8	26.6	54.0	-27.4

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT40 (TX-Channel 03)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4844.000	69.2	36.7	34.2	66.7	74.0	-7.3
Vertical	7266.000	60.9	36.7	37.1	61.3	74.0	-12.7
Vertical	9688.000	54.4	36.1	37.0	55.3	74.0	-18.7
Vertical	2388.920	48.6	36.2	27.7	40.1	74.0	-33.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4844.000	49.9	36.7	34.2	47.4	54.0	-6.6
Vertical	7266.000	44.8	36.7	37.1	45.2	54.0	-8.8
Vertical	9688.000	40.6	36.1	37.0	41.5	54.0	-12.5
Vertical	2388.920	36.6	36.2	27.7	28.1	54.0	-25.9

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT40 (TX-Channel 06)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	66.7	36.7	34.2	64.2	74.0	-9.8
Vertical	7311.000	56.7	36.7	37.1	57.1	74.0	-16.9
Vertical	9748.000	53.8	36.1	37.4	55.1	74.0	-18.9

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4874.000	48.2	36.7	34.2	45.7	54.0	-8.3
Vertical	7311.000	42.7	36.7	37.1	43.1	54.0	-10.9
Vertical	9748.000	40.9	36.1	37.4	42.2	54.0	-11.8

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Mode: 802.11 n-HT40 (TX-Channel 09)

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4904.000	66.5	36.7	34.6	64.4	74.0	-9.6
Vertical	7356.000	53.4	36.7	37.0	53.7	74.0	-20.3
Vertical	9808.000	54.2	36.1	37.8	55.9	74.0	-18.1
Vertical	2484.210	50.2	36.2	28.0	42.0	74.0	-32.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	4904.000	48.6	36.7	34.6	46.5	54.0	-7.5
Vertical	7356.000	39.6	36.7	37.0	39.9	54.0	-14.1
Vertical	9808.000	40.7	36.1	37.8	42.4	54.0	-11.6
Vertical	2484.210	37.8	36.2	28.0	29.6	54.0	-24.4

NOTES: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW=1MHz, VBW=10Hz is used for Average measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

4.9 Conducted Emission

Worst Case Neutral-Conducted Configuration
At

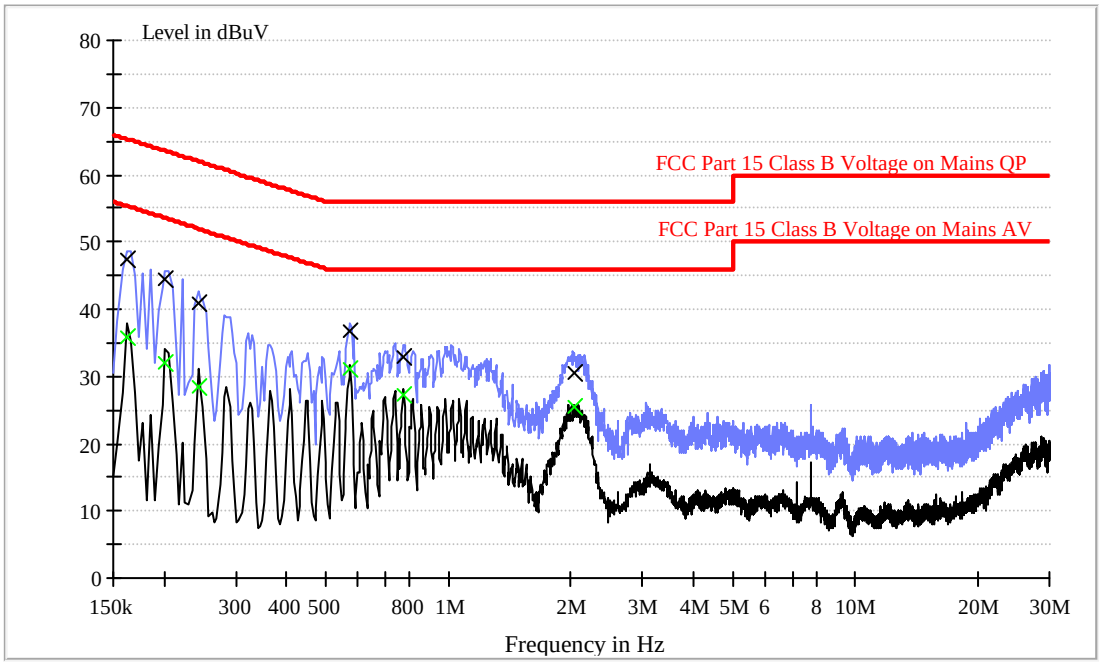
0.574000 MHz

Judgement: Passed by 14.9 dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Worst Case Operating Mode: USB Download through WiFi link

Conducted Emission Test - FCC



Result Table QP

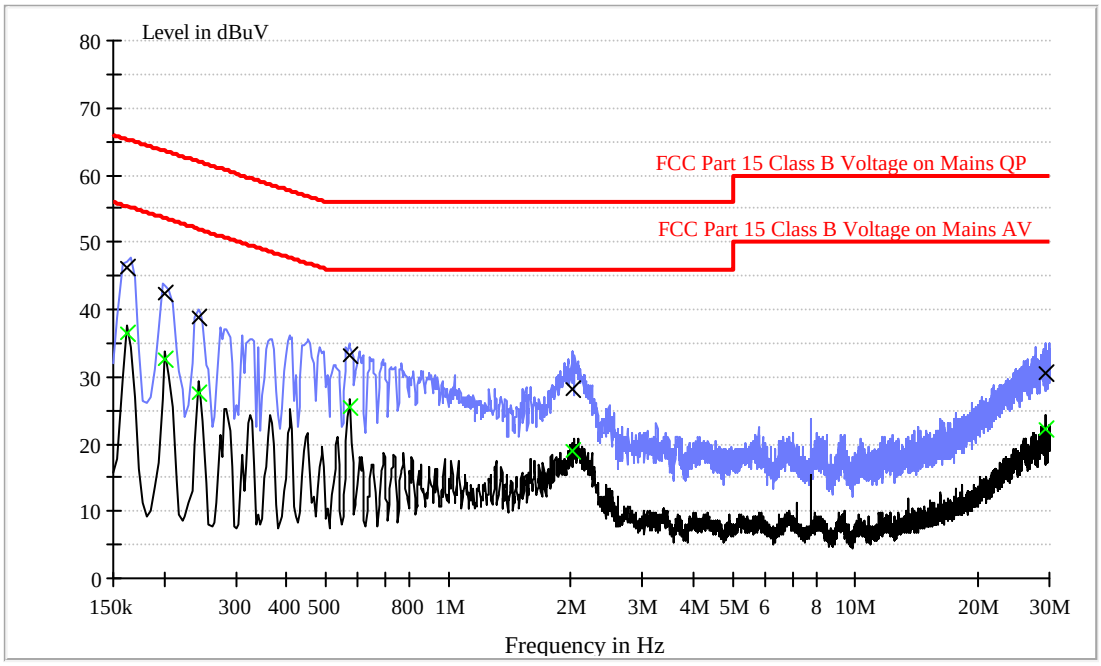
Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.162000	47.4	N	9.7	18.0	65.4
0.202000	44.4	N	9.6	19.1	63.5
0.242000	41.0	N	9.6	21.0	62.0
0.574000	36.8	N	9.6	19.2	56.0
0.778000	33.0	N	9.7	23.0	56.0
2.050000	30.5	N	9.7	25.5	56.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.162000	35.9	N	9.7	19.5	55.4
0.202000	32.1	N	9.6	21.4	53.5
0.242000	28.5	N	9.6	23.5	52.0
0.574000	31.1	N	9.6	14.9	46.0
0.778000	27.2	N	9.7	18.8	46.0
2.050000	25.5	N	9.7	20.5	46.0

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010
Worst Case Operating Mode: USB Download through WiFi link

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.162000	46.3	L1	9.6	19.1	65.4
0.202000	42.5	L1	9.6	21.0	63.5
0.242000	38.7	L1	9.6	23.3	62.0
0.574000	33.3	L1	9.6	22.7	56.0
2.010000	28.1	L1	9.8	27.9	56.0
29.234000	30.4	L1	10.7	29.6	60.0

Result Table AV

Frequency (MHz)	Average (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.162000	36.5	L1	9.6	18.9	55.4
0.202000	32.6	L1	9.6	20.9	53.5
0.242000	27.6	L1	9.6	24.4	52.0
0.574000	25.6	L1	9.6	20.4	46.0
2.010000	19.1	L1	9.8	26.9	46.0
29.234000	22.2	L1	10.7	27.8	50.0

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.10 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

[ ] Not required - No digital part

[ ] Test results are attached

[x] Included in the separated report.

Applicant: ZHENJIANG SOLAR ELECTRONIC TECHNOLOGY CO., LTD.
Date of Test: June 14, 2013
Model: iT1010

4.11 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

EXHIBIT 5

EQUIPMENT PHOTOGRAPHS

5.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.pdf.

EXHIBIT 6

PRODUCT LABELLING

6.0 **Product Labeling**

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

EXHIBIT 7

TECHNICAL SPECIFICATIONS

7.0 **Technical Specifications**

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

EXHIBIT 8

INSTRUCTION MANUAL

8.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

EXHIBIT 9

CONFIDENTIALITY REQUEST

9.0 Confidentiality Request

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.

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EXHIBIT 10

MISCELLANEOUS INFORMATION

10.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF.*

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

EXHIBIT 11

TEST EQUIPMENT LIST

11.0 **Test Equipment List**

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	30-Jun-12	30-Jun-13
SZ185-01	EMI Receiver	R&S	ESCI	100547	12-Mar-13	12-Mar-14
SZ061-08	Horn Antenna	ETS	3115	00092346	3-Nov-12	3-Nov-13
SZ061-07	Horn Antenna	ETS	3160-09	00083067	16-Feb-12	16-Aug-13
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	13-May-13	13-May-14
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	12-Mar-13	12-Mar-14
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	12-Mar-13	12-Mar-14
SZ182-02	RF Power Meter	Anritsu	ML2496A	1302005	28-Feb-13	28-Feb-14
SZ182-02-01	Pulse Power Sensor	Anritsu	MA2411B	1207429	28-Feb-13	28-Feb-14
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2-Mar-13	2-Mar-14
SZ062-02	RF Cable	RADIALL	RG 213U	--	17-Mar-12	17-Sep-13
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	29-Dec-12	29-Jun-13
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	29-Dec-12	29-Jun-13
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	26-Feb-13	26-Aug-13
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	5-Nov-12	5-Nov-13
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	5-Nov-12	5-Nov-13
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	5-Nov-12	5-Nov-13
SZ188-03	Shielding Room	ETS	RFD-100	4100	10-Sep-12	10-Sep-13