FCC PART 15.247

TEST REPORT

For

GLOBAL DISTRIBUTION FZE

508/509, The Business Centre Building, Al Hamriya – Bur Dubai, P.O.Box 126963,Dubai, U.A.E

FCC ID: 2ADPL-I321

Report Type:	Product Type:
Original Report	SMART MOBILE PHONE

Test Engineer:	Sevin Li
Report Number:	RDG141216002-00D
Report Date:	2014-12-29
Reviewed By:	Sula Huang RF Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Global Distribution FZE*'s product, model number: *i321 (FCC ID: 2ADPL-I321)* (the "EUT") in this report was a *SMART MOBILE PHONE,* which was measured approximately: 11.7 cm (L) x 6.2 cm (W) x 1.2 cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter.

Adapter information:
Model: IACC05
Input: AC100-240V, 50/60Hz, 0.15A
Output: DC 5.0V, 0.5A

** All measurement and test data in this report was gathered from production sample serial number: 141216002 (Assigned by BACL.Dongguan). The EUT was received on 2014-12-16*

Objective

This report is prepared on behalf of *GLOBAL DISTRIBUTION FZE* in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communications Commission's rules

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2ADPL-I321.
FCC Part 15C DSS submissions with FCC ID: 2ADPL-I321.
FCC Part 22H, 24E PCE submissions with FCC ID: 2ADPL-I321.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode, which was provided by manufacturer.
For 2.4GHz band, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were tested with Channel 1, 6 and 11.For 802.11n ht40 mode were tested with Channel 3, 6 and 9.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

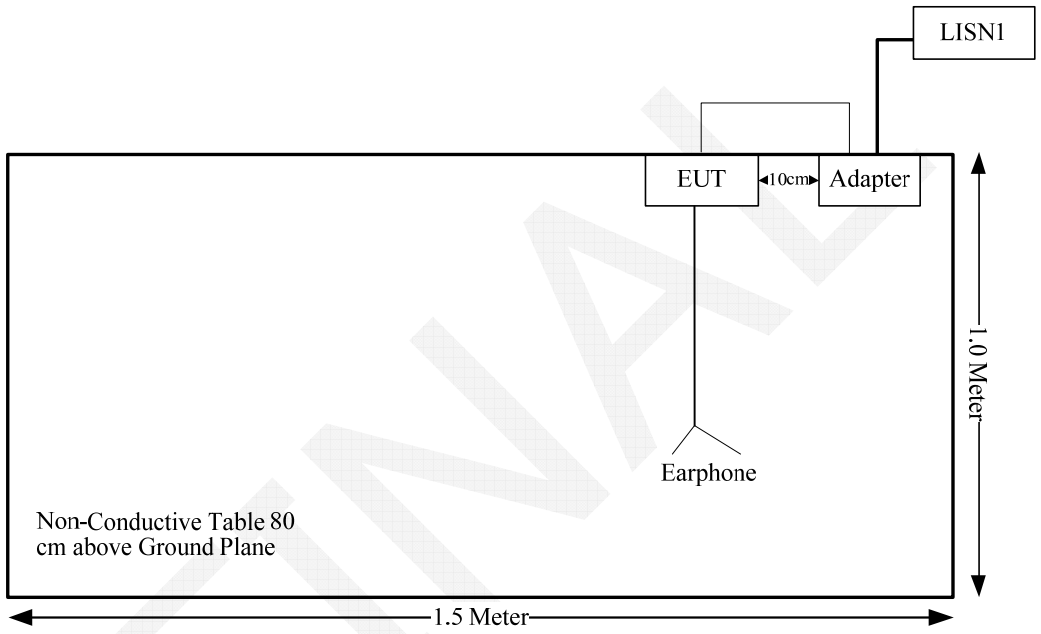
The software “RF test tool built-in the EUT” was used for testing, which was provided by manufacturer.
The worst condition (maximum power with 100% duty cycle) was setting by the software as following table:

Test Mode	Test Software Version	Engineering Mode		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting	10	10	10
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting	9	9	9
802.11n ht20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6.5Mbps	6.5Mbps	6.5Mbps
	Power Level Setting	9	9	9
802.11n ht40	Test Frequency	2422MHz	2437MHz	2452MHz
	Data Rate	13.5Mbps	13.5Mbps	13.5Mbps
	Power Level Setting	8	8	8

External I/O Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	yes	No	0.85	USB Port of Adapter	EUT
Earphone Cable	No	No	0.95	Earphone port of EUT	Earphone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum conducted output power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §1.1310 & §2.1093- RF EXPOSURE

Applicable Standard

According to§15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v05r02:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The maximum conducted average output power= 9.32 dBm (8.55mW) at 2437MHz
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
= 8.55/5*(√2.437) = 2.67 < 3.0

So the stand-alone SAR evaluation is not necessary.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has one integral antenna arrangement and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

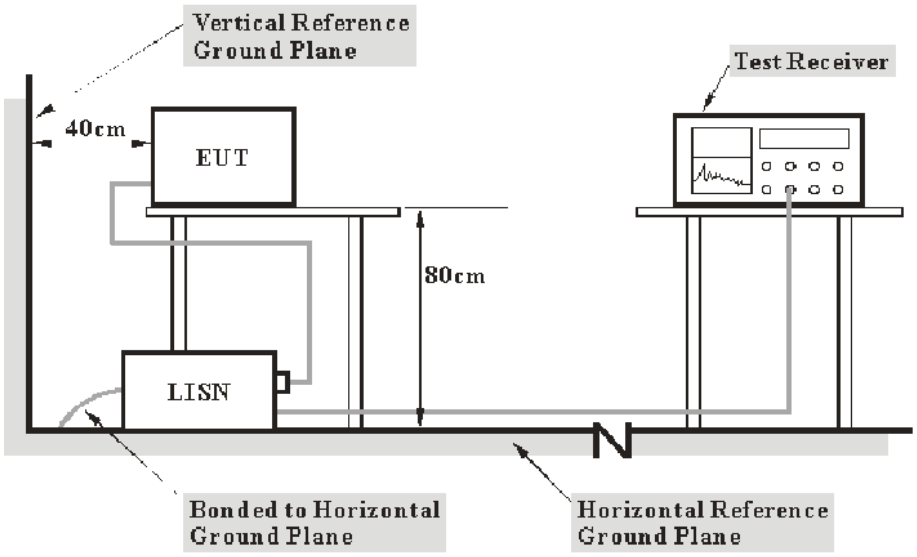
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2014-10-16	2015-10-16
R&S	L.I.S.N	ESH3-Z5	843331/015	N/A	N/A
R&S	Two-line V-network	ENV 216	3560.6550.12	2014-01-22	2015-01-22
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

10.3 dB at **0.357511MHz** in the **Neutral** conducted mode

Test Data

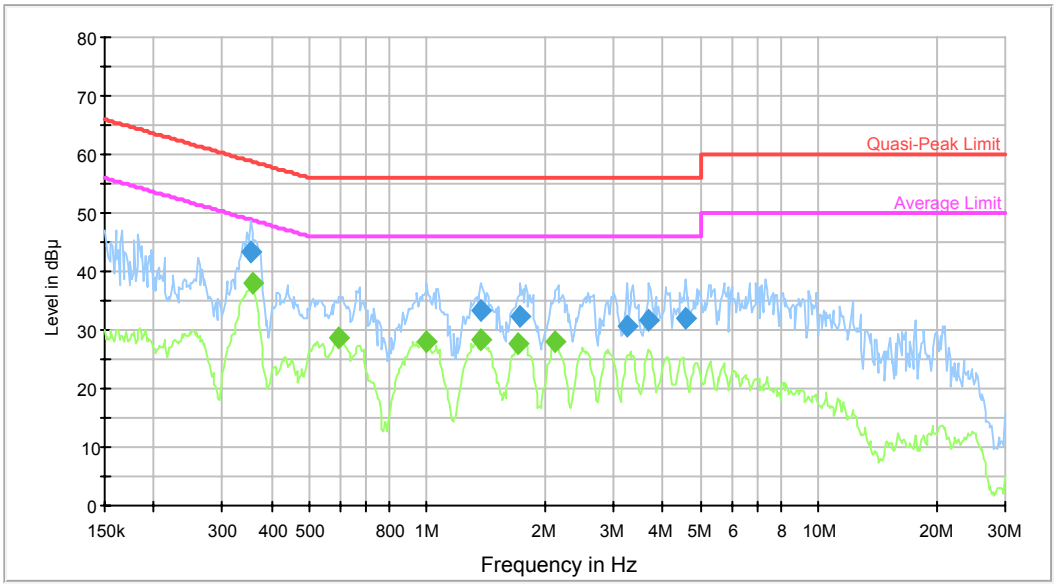
Environmental Conditions

Temperature:	21.1°C
Relative Humidity:	29 %
ATM Pressure:	100.8kPa

The testing was performed by Sevin Li on 2014-12.17.

Test Mode: Charging&Transmitting

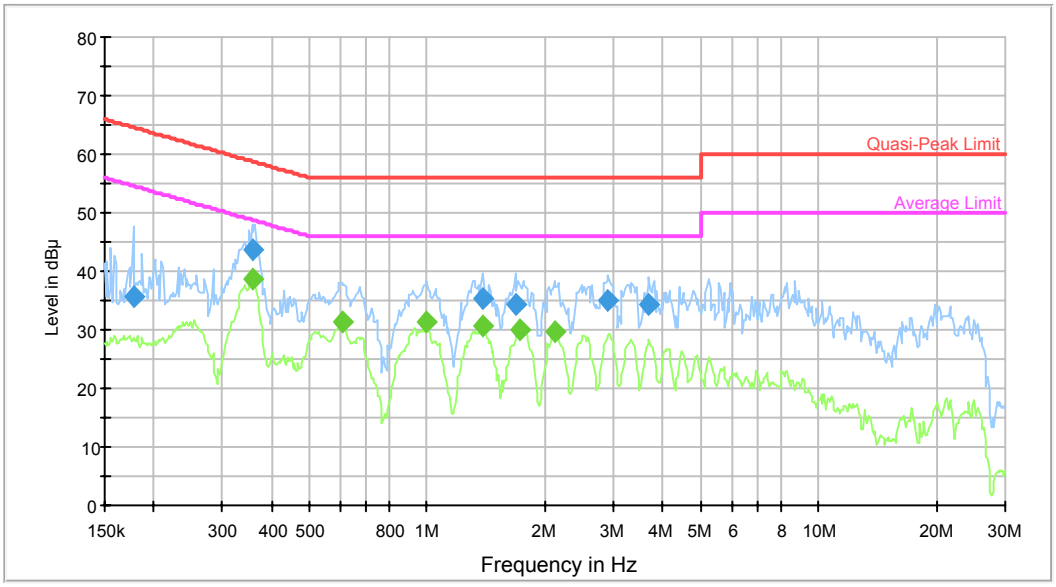
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.354674	43.3	9.000	L1	10.7	15.5	58.9	Compliance
1.374420	33.3	9.000	L1	10.4	22.7	56.0	Compliance
1.731709	32.2	9.000	L1	10.4	23.8	56.0	Compliance
3.249802	30.7	9.000	L1	10.6	25.3	56.0	Compliance
3.691692	31.6	9.000	L1	10.7	24.4	56.0	Compliance
4.577832	32.1	9.000	L1	10.7	23.9	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.357511	37.9	9.000	L1	10.7	10.8	48.8	Compliance
0.595338	28.6	9.000	L1	10.4	17.4	46.0	Compliance
0.999305	28.1	9.000	L1	10.4	17.9	46.0	Compliance
1.374420	28.5	9.000	L1	10.4	17.5	46.0	Compliance
1.704331	27.7	9.000	L1	10.4	18.3	46.0	Compliance
2.113432	28.0	9.000	L1	10.5	18.0	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.177322	35.6	9.000	N	10.8	29.0	64.6	Compliance
0.357511	43.8	9.000	N	11.0	15.0	58.8	Compliance
1.385415	35.2	9.000	N	10.5	20.8	56.0	Compliance
1.677385	34.2	9.000	N	10.5	21.8	56.0	Compliance
2.906762	35.1	9.000	N	10.6	20.9	56.0	Compliance
3.691692	34.3	9.000	N	10.7	21.7	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.357511	38.5	9.000	N	11.0	10.3	48.8	Compliance
0.604902	31.2	9.000	N	10.5	14.8	46.0	Compliance
0.999305	31.2	9.000	N	10.5	14.8	46.0	Compliance
1.385415	30.7	9.000	N	10.5	15.3	46.0	Compliance
1.717965	29.8	9.000	N	10.5	16.2	46.0	Compliance
2.113432	29.6	9.000	N	10.5	16.4	46.0	Compliance

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner：

If U_{lab} is less than or equal to U_{cispr} of Table 2, then:
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 2, then:
- compliance is deemed to occur if no measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit;
- non - compliance is deemed to occur if any measured disturbance level, increased by ($U_{lab} - U_{cispr}$), exceeds the disturbance limit.

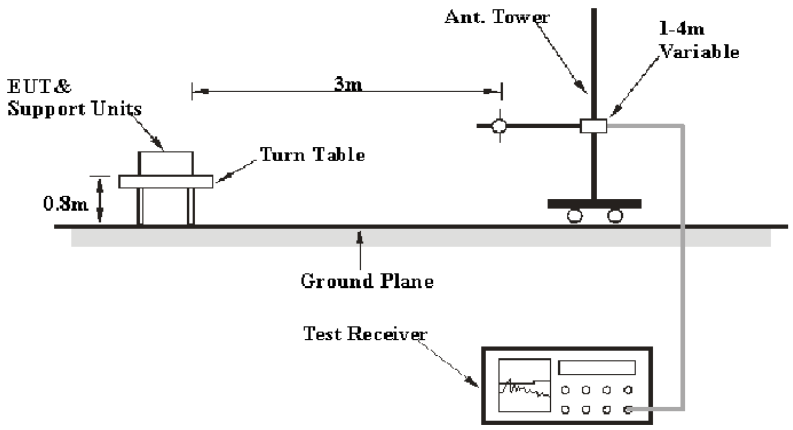
Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:
30M~200MHz: 5.0 dB
200M~1GHz: 6.2 dB
1G~6GHz: 4.45 dB
6G~18GHz: 5.23 dB

Table 2 – Values of U_{cispr}

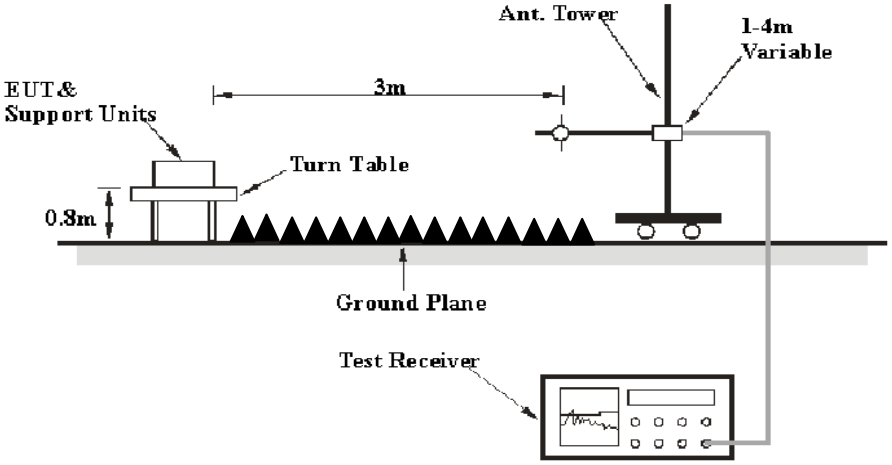
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 limits.
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-09	2015-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-09	2015-05-09
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2014-09-06	2015-09-06

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

6.09 dB at **2483.5 MHz** in the **Vertical** polarization for 802.11n20 Mode

Test Data

Environmental Conditions

Temperature:	21.2°C
Relative Humidity:	38 %
ATM Pressure:	101.7 kPa

The testing was performed by Sevin Li on 2014-12-26.

Test Mode: Transmitting

802.11b Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	59.28	PK	H	25.67	4.42	0.00	89.37	N/A	N/A
2412	55.73	AV	H	25.67	4.42	0.00	85.82	N/A	N/A
2412	65.44	PK	V	25.67	4.42	0.00	95.53	N/A	N/A
2412	60.71	AV	V	25.67	4.42	0.00	90.80	N/A	N/A
2390	26.14	PK	V	25.61	4.39	0.00	56.14	74.00	17.86
2390	14.99	AV	V	25.61	4.39	0.00	44.99	54.00	9.01
4824	42.97	PK	V	30.64	6.03	27.41	52.23	74.00	21.77
4824	37.26	AV	V	30.64	6.03	27.41	46.52	54.00	7.48
7236	36.29	PK	V	34.17	7.47	25.90	52.03	74.00	21.97
7236	25.37	AV	V	34.17	7.47	25.90	41.11	54.00	12.89
9648	30.98	PK	V	36.06	8.81	27.46	48.39	74.00	25.61
9648	18.22	AV	V	36.06	8.81	27.46	35.63	54.00	18.37
2129	34.92	PK	V	24.94	4.05	27.36	36.55	74.00	37.45
2129	22.10	AV	V	24.94	4.05	27.36	23.73	54.00	30.27
165.8	34.14	QP	V	12.34	1.55	21.44	26.59	43.50	16.91
Middle Channel: 2437 MHz									
2437	59.43	PK	H	25.74	4.41	0.00	89.58	N/A	N/A
2437	55.68	AV	H	25.74	4.41	0.00	85.83	N/A	N/A
2437	65.92	PK	V	25.74	4.41	0.00	96.07	N/A	N/A
2437	60.81	AV	V	25.74	4.41	0.00	90.96	N/A	N/A
4874	42.86	PK	V	30.77	6.09	27.42	52.30	74.00	21.70
4874	37.49	AV	V	30.77	6.09	27.42	46.93	54.00	7.07
7311	36.11	PK	V	34.35	7.51	25.88	52.09	74.00	21.91
7311	25.48	AV	V	34.35	7.51	25.88	41.46	54.00	12.54
9748	30.64	PK	V	36.30	8.83	27.24	48.53	74.00	25.47
9748	18.30	AV	V	36.30	8.83	27.24	36.19	54.00	17.81
2060	34.12	PK	V	24.76	3.91	27.42	35.37	74.00	38.63
2060	22.08	AV	V	24.76	3.91	27.42	23.33	54.00	30.67
165.8	34.27	QP	V	12.34	1.55	21.44	26.72	43.50	16.78
High Channel: 2462 MHz									
2462	59.27	PK	H	25.80	4.43	0.00	89.50	N/A	N/A
2462	55.06	AV	H	25.80	4.43	0.00	85.29	N/A	N/A
2462	65.73	PK	V	25.80	4.43	0.00	95.96	N/A	N/A
2462	60.65	AV	V	25.80	4.43	0.00	90.88	N/A	N/A
2483.5	25.93	PK	V	25.86	4.49	0.00	56.28	74.00	17.72
2483.5	14.38	AV	V	25.86	4.49	0.00	44.73	54.00	9.27
4924	41.97	PK	V	30.90	5.97	27.43	51.41	74.00	22.59
4924	36.05	AV	V	30.90	5.97	27.43	45.49	54.00	8.51
7386	36.44	PK	V	34.53	7.55	25.86	52.66	74.00	21.34
7386	25.08	AV	V	34.53	7.55	25.86	41.30	54.00	12.70
9848	30.57	PK	V	36.54	8.85	26.94	49.02	74.00	24.98
9848	18.34	AV	V	36.54	8.85	26.94	36.79	54.00	17.21
2950	34.71	PK	V	27.07	6.91	27.54	41.15	74.00	32.85
2950	22.36	AV	V	27.07	6.91	27.54	28.80	54.00	25.20
165.8	34.40	QP	V	12.34	1.55	21.44	26.85	43.50	16.65

802.11g Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	58.72	PK	H	25.67	4.42	0.00	88.81	N/A	N/A
2412	48.93	AV	H	25.67	4.42	0.00	79.02	N/A	N/A
2412	68.94	PK	V	25.67	4.42	0.00	99.03	N/A	N/A
2412	58.67	AV	V	25.67	4.42	0.00	88.76	N/A	N/A
2390	28.52	PK	V	25.61	4.39	0.00	58.52	74.00	15.48
2390	16.85	AV	V	25.61	4.39	0.00	46.85	54.00	7.15
4824	40.72	PK	V	30.64	6.03	27.41	49.98	74.00	24.02
4824	27.81	AV	V	30.64	6.03	27.41	37.07	54.00	16.93
7236	35.39	PK	V	34.17	7.47	25.90	51.13	74.00	22.87
7236	23.89	AV	V	34.17	7.47	25.90	39.63	54.00	14.37
9648	30.12	PK	V	36.06	8.81	27.46	47.53	74.00	26.47
9648	18.01	AV	V	36.06	8.81	27.46	35.42	54.00	18.58
1950	35.26	PK	V	24.50	3.79	27.49	36.06	74.00	37.94
1950	22.39	AV	V	24.50	3.79	27.49	23.19	54.00	30.81
165.8	34.38	QP	V	12.34	1.55	21.44	26.83	43.50	16.67
Middle Channel: 2437 MHz									
2437	58.14	PK	H	25.74	4.41	0.00	88.29	N/A	N/A
2437	48.36	AV	H	25.74	4.41	0.00	78.51	N/A	N/A
2437	68.25	PK	V	25.74	4.41	0.00	98.40	N/A	N/A
2437	58.03	AV	V	25.74	4.41	0.00	88.18	N/A	N/A
4874	40.31	PK	V	30.77	6.09	27.42	49.75	74.00	24.25
4874	27.29	AV	V	30.77	6.09	27.42	36.73	54.00	17.27
7311	35.47	PK	V	34.35	7.51	25.88	51.45	74.00	22.55
7311	23.53	AV	V	34.35	7.51	25.88	39.51	54.00	14.49
9748	30.28	PK	V	36.30	8.83	27.24	48.17	74.00	25.83
9748	18.06	AV	V	36.30	8.83	27.24	35.95	54.00	18.05
1916	35.67	PK	V	24.43	3.66	27.50	36.26	74.00	37.74
1916	22.15	AV	V	24.43	3.66	27.50	22.74	54.00	31.26
165.8	34.09	QP	V	12.34	1.55	21.44	26.54	43.50	16.96
High Channel: 2462 MHz									
2462	58.37	PK	H	25.80	4.43	0.00	88.60	N/A	N/A
2462	48.19	AV	H	25.80	4.43	0.00	78.42	N/A	N/A
2462	68.33	PK	V	25.80	4.43	0.00	98.56	N/A	N/A
2462	58.24	AV	V	25.80	4.43	0.00	88.47	N/A	N/A
2483.5	29.31	PK	V	25.86	4.49	0.00	59.66	74.00	14.34
2483.5	17.12	AV	V	25.86	4.49	0.00	47.47	54.00	6.53
4924	41.03	PK	V	30.90	5.97	27.43	50.47	74.00	23.53
4924	27.82	AV	V	30.90	5.97	27.43	37.26	54.00	16.74
7386	35.40	PK	V	34.53	7.55	25.86	51.62	74.00	22.38
7386	23.72	AV	V	34.53	7.55	25.86	39.94	54.00	14.06
9848	30.69	PK	V	36.54	8.85	26.94	49.14	74.00	24.86
9848	18.31	AV	V	36.54	8.85	26.94	36.76	54.00	17.24
1608	35.07	PK	V	23.82	3.26	27.80	34.35	74.00	39.65
1608	22.28	AV	V	23.82	3.26	27.80	21.56	54.00	32.44
165.8	34.11	QP	V	12.34	1.55	21.44	26.56	43.50	16.94

802.11 n ht20 Mode

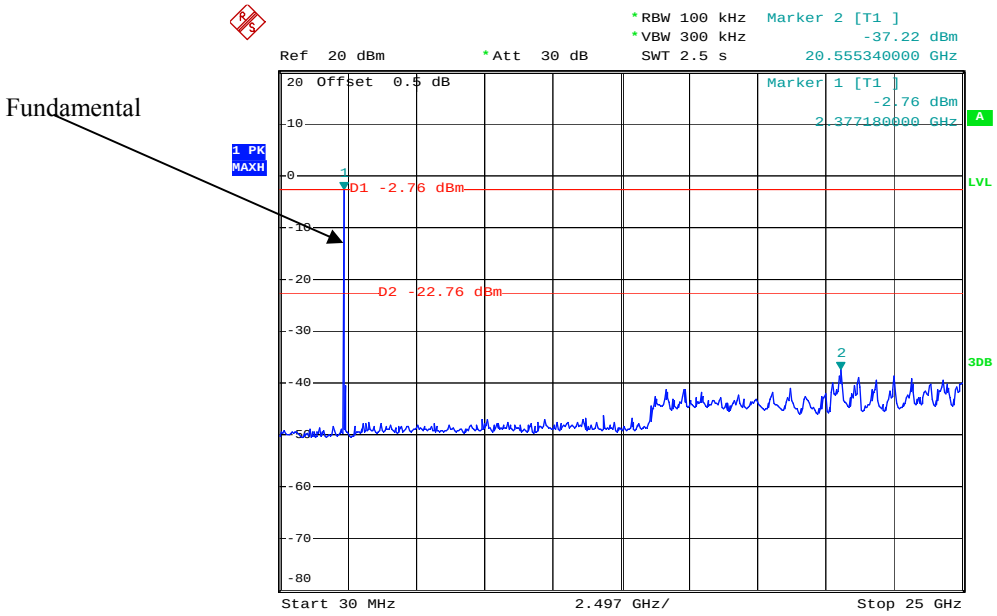
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	57.66	PK	H	25.67	4.42	0.00	87.75	N/A	N/A
2412	47.43	AV	H	25.67	4.42	0.00	77.52	N/A	N/A
2412	68.24	PK	V	25.67	4.42	0.00	98.33	N/A	N/A
2412	57.71	AV	V	25.67	4.42	0.00	87.80	N/A	N/A
2390	27.01	PK	V	25.61	4.39	0.00	57.01	74.00	16.99
2390	16.98	AV	V	25.61	4.39	0.00	46.98	54.00	7.02
4824	41.97	PK	V	30.64	6.03	27.41	51.23	74.00	22.77
4824	29.78	AV	V	30.64	6.03	27.41	39.04	54.00	14.96
7236	36.06	PK	V	34.17	7.47	25.90	51.80	74.00	22.20
7236	24.10	AV	V	34.17	7.47	25.90	39.84	54.00	14.16
9648	32.38	PK	V	36.06	8.81	27.46	49.79	74.00	24.21
9648	20.14	AV	V	36.06	8.81	27.46	37.55	54.00	16.45
2950	34.34	PK	V	27.07	6.91	27.54	40.78	74.00	33.22
2950	22.26	AV	V	27.07	6.91	27.54	28.70	54.00	25.30
165.8	34.19	QP	V	12.34	1.55	21.44	26.64	43.50	16.86
Middle Channel: 2437 MHz									
2437	56.47	PK	H	25.74	4.41	0.00	86.62	N/A	N/A
2437	45.93	AV	H	25.74	4.41	0.00	76.08	N/A	N/A
2437	67.82	PK	V	25.74	4.41	0.00	97.97	N/A	N/A
2437	56.27	AV	V	25.74	4.41	0.00	86.42	N/A	N/A
4874	42.01	PK	V	30.77	6.09	27.42	51.45	74.00	22.55
4874	30.11	AV	V	30.77	6.09	27.42	39.55	54.00	14.45
7311	36.49	PK	V	34.35	7.51	25.88	52.47	74.00	21.53
7311	24.23	AV	V	34.35	7.51	25.88	40.21	54.00	13.79
9748	32.28	PK	V	36.30	8.83	27.24	50.17	74.00	23.83
9748	20.03	AV	V	36.30	8.83	27.24	37.92	54.00	16.08
1732	34.29	PK	V	24.06	3.58	27.63	34.30	74.00	39.70
1732	22.15	AV	V	24.06	3.58	27.63	22.16	54.00	31.84
165.8	34.33	QP	V	12.34	1.55	21.44	26.78	43.50	16.72
High Channel: 2462 MHz									
2462	57.89	PK	H	25.80	4.43	0.00	88.12	N/A	N/A
2462	47.68	AV	H	25.80	4.43	0.00	77.91	N/A	N/A
2462	68.01	PK	V	25.80	4.43	0.00	98.24	N/A	N/A
2462	57.85	AV	V	25.80	4.43	0.00	88.08	N/A	N/A
2483.5	27.88	PK	V	25.86	4.49	0.00	58.23	74.00	15.77
2483.5	17.56	AV	V	25.86	4.49	0.00	47.91	54.00	6.09
4924	42.25	PK	V	30.90	5.97	27.43	51.69	74.00	22.31
4924	30.21	AV	V	30.90	5.97	27.43	39.65	54.00	14.35
7386	36.77	PK	V	34.53	7.55	25.86	52.99	74.00	21.01
7386	24.50	AV	V	34.53	7.55	25.86	40.72	54.00	13.28
9848	32.17	PK	V	36.54	8.85	26.94	50.62	74.00	23.38
9848	20.22	AV	V	36.54	8.85	26.94	38.67	54.00	15.33
2688	34.90	PK	V	26.39	4.80	27.48	38.61	74.00	35.39
2688	22.56	AV	V	26.39	4.80	27.48	26.27	54.00	27.73
165.8	34.00	QP	V	12.34	1.55	21.44	26.45	43.50	17.05

802.11 n ht40 Mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2422 MHz									
2422	55.98	PK	H	25.70	4.41	0.00	86.09	N/A	N/A
2422	44.67	AV	H	25.70	4.41	0.00	74.78	N/A	N/A
2422	66.94	PK	V	25.70	4.41	0.00	97.05	N/A	N/A
2422	55.77	AV	V	25.70	4.41	0.00	85.88	N/A	N/A
2390	27.01	PK	V	25.61	4.39	0.00	57.01	74.00	16.99
2390	15.66	AV	V	25.61	4.39	0.00	45.66	54.00	8.34
4844	41.69	PK	V	30.69	6.08	27.42	51.04	74.00	22.96
4844	28.87	AV	V	30.69	6.08	27.42	38.22	54.00	15.78
7266	32.29	PK	V	34.24	7.48	25.89	48.12	74.00	25.88
7266	20.18	AV	V	34.24	7.48	25.89	36.01	54.00	17.99
9688	30.34	PK	V	36.15	8.82	27.37	47.94	74.00	26.06
9688	18.26	AV	V	36.15	8.82	27.37	35.86	54.00	18.14
1640	34.38	PK	V	23.88	3.37	27.75	33.88	74.00	40.12
1640	22.23	AV	V	23.88	3.37	27.75	21.73	54.00	32.27
165.8	34.52	QP	V	12.34	1.55	21.44	26.97	43.50	16.53
Middle Channel: 2437 MHz									
2437	56.44	PK	H	25.74	4.41	0.00	86.59	N/A	N/A
2437	45.39	AV	H	25.74	4.41	0.00	75.54	N/A	N/A
2437	67.76	PK	V	25.74	4.41	0.00	97.91	N/A	N/A
2437	56.93	AV	V	25.74	4.41	0.00	87.08	N/A	N/A
4874	41.45	PK	V	30.77	6.09	27.42	50.89	74.00	23.11
4874	28.87	AV	V	30.77	6.09	27.42	38.31	54.00	15.69
7311	32.36	PK	V	34.35	7.51	25.88	48.34	74.00	25.66
7311	20.63	AV	V	34.35	7.51	25.88	36.61	54.00	17.39
9748	30.57	PK	V	36.30	8.83	27.24	48.46	74.00	25.54
9748	18.26	AV	V	36.30	8.83	27.24	36.15	54.00	17.85
1292	34.32	PK	V	23.06	2.90	26.90	33.38	74.00	40.62
1292	22.09	AV	V	23.06	2.90	26.90	21.15	54.00	32.85
165.8	34.72	QP	V	12.34	1.55	21.44	27.17	43.50	16.33
High Channel: 2452 MHz									
2452	56.71	PK	H	25.78	4.41	0.00	86.90	N/A	N/A
2452	45.01	AV	H	25.78	4.41	0.00	75.20	N/A	N/A
2452	67.22	PK	V	25.78	4.41	0.00	97.41	N/A	N/A
2452	56.87	AV	V	25.78	4.41	0.00	87.06	N/A	N/A
2483.5	26.29	PK	V	25.86	4.49	0.00	56.64	74.00	17.36
2483.5	15.14	AV	V	25.86	4.49	0.00	45.49	54.00	8.51
4904	41.16	PK	V	30.85	6.06	27.43	50.64	74.00	23.36
4904	28.68	AV	V	30.85	6.06	27.43	38.16	54.00	15.84
7356	32.15	PK	V	34.45	7.53	25.87	48.26	74.00	25.74
7356	20.51	AV	V	34.45	7.53	25.87	36.62	54.00	17.38
9808	30.92	PK	V	36.44	8.84	27.09	49.11	74.00	24.89
9808	18.17	AV	V	36.44	8.84	27.09	36.36	54.00	17.64
1328	34.13	PK	V	23.15	2.98	26.93	33.33	74.00	40.67
1328	22.70	AV	V	23.15	2.98	26.93	21.90	54.00	32.10
165.8	34.80	QP	V	12.34	1.55	21.44	27.25	43.50	16.25

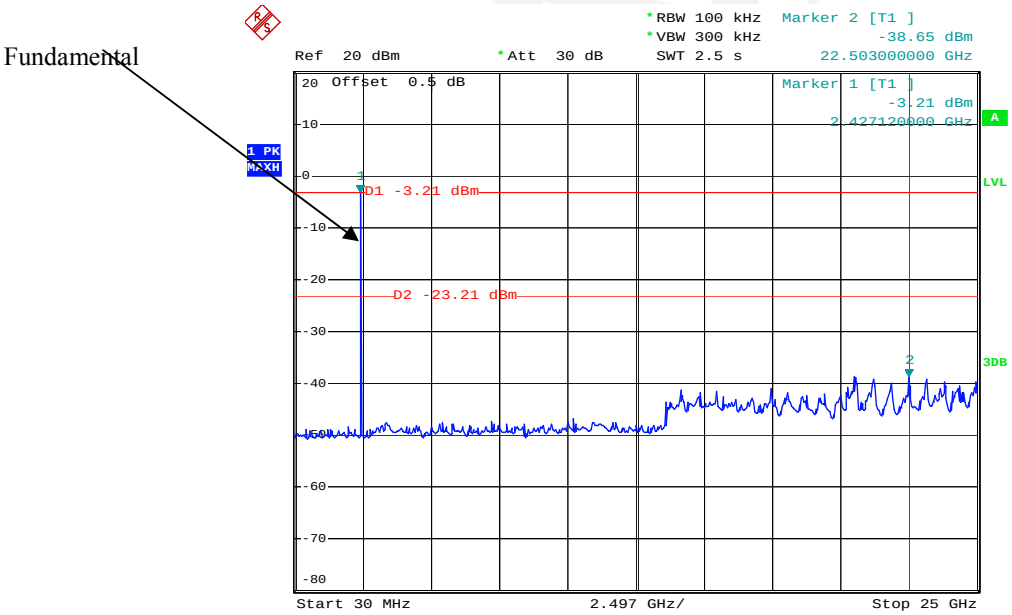
Conducted Spurious Emissions at Antenna Port

802.11b Low Channel



Date: 26.DEC.2014 09:58:00

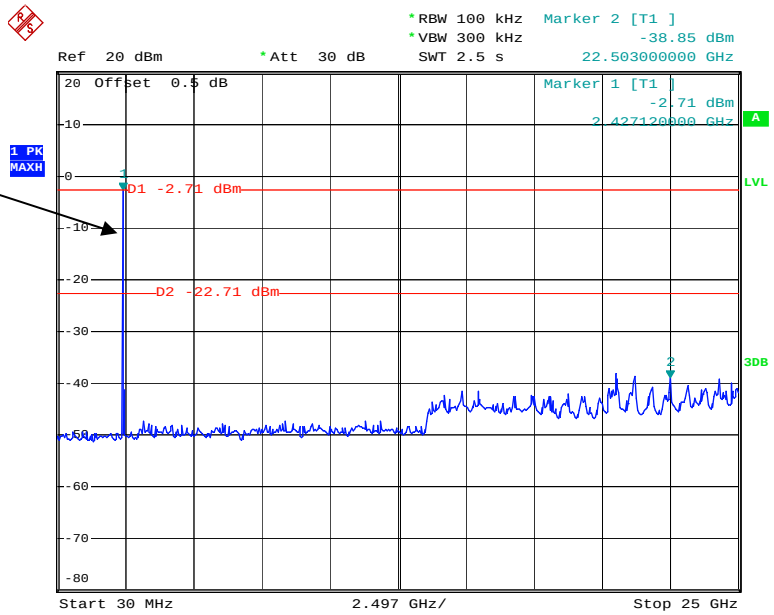
802.11b Middle Channel



Date: 26.DEC.2014 09:59:51

802.11b High Channel

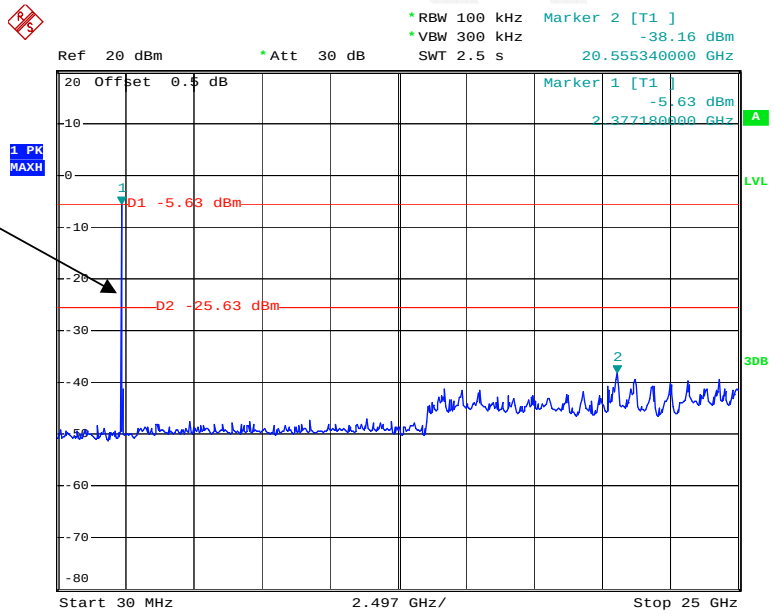
Fundamental



Date: 26.DEC.2014 10:00:43

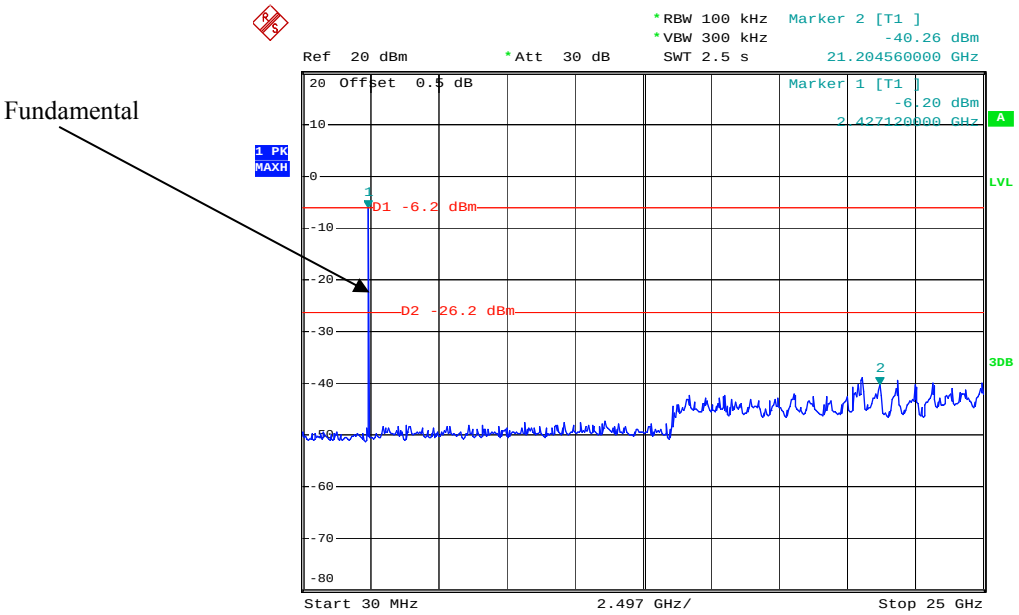
802.11g Low Channel

Fundamental



Date: 26.DEC.2014 10:04:05

802.11g Middle Channel



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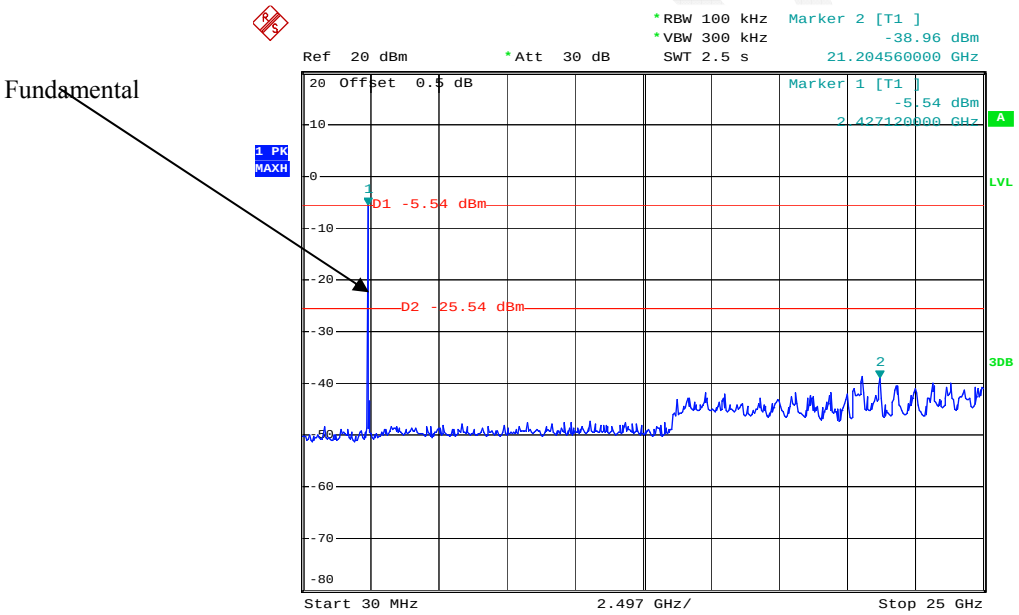
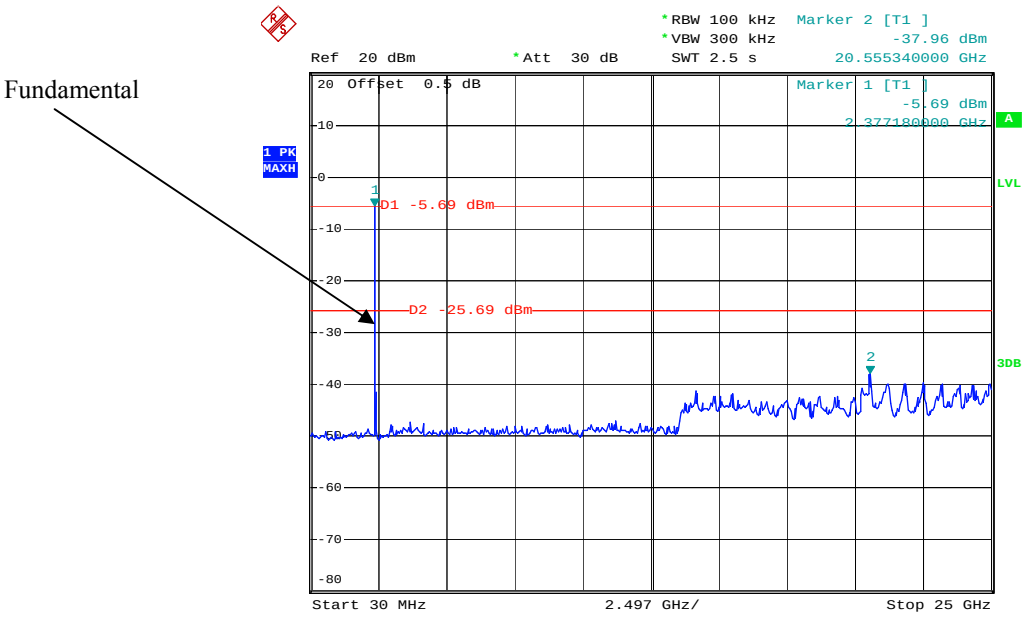
802.11g High Channel



Date: 26.DEC.2014 10:02:46

802.11n ht20 Low Channel



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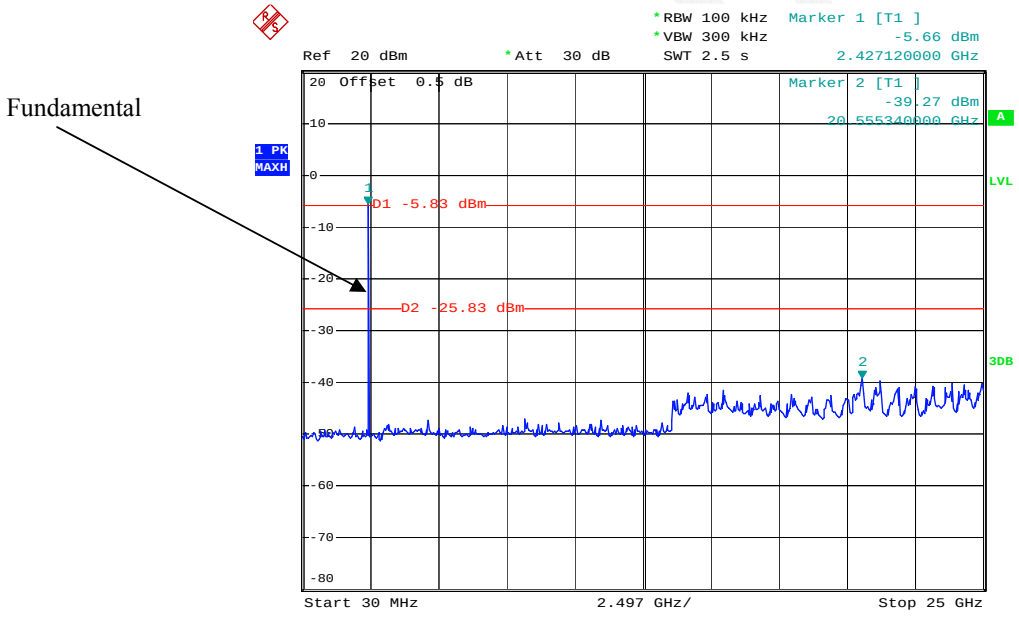
802.11n ht20 Middle Channel



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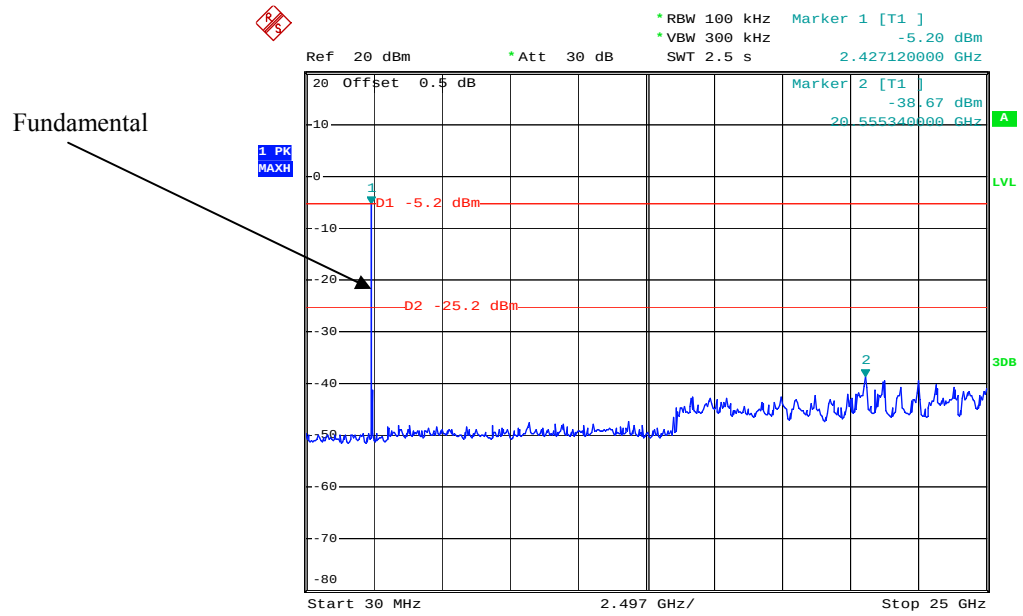
802.11n ht20 High Channel



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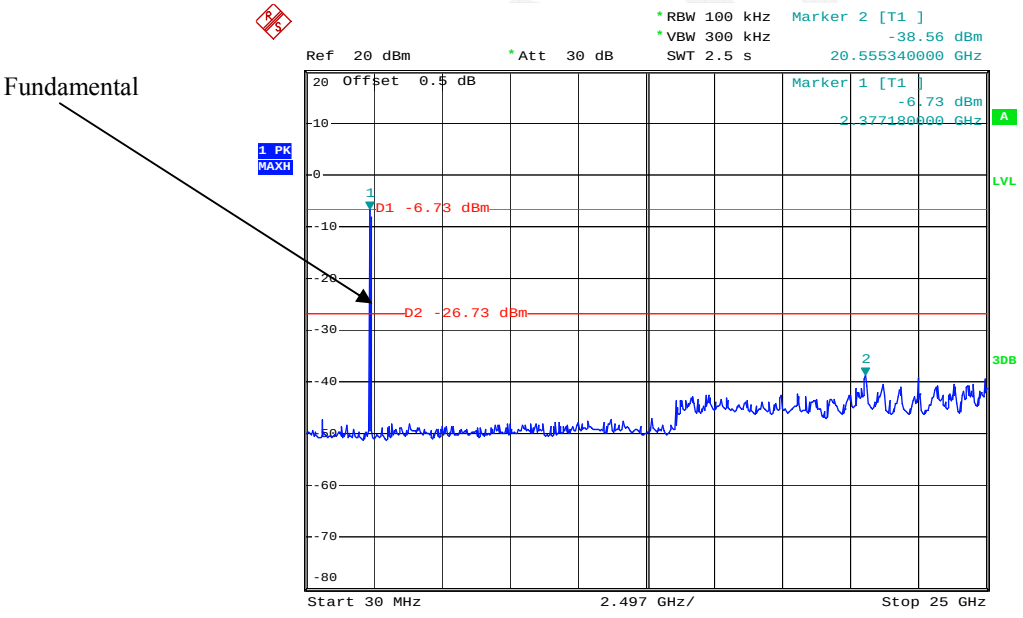
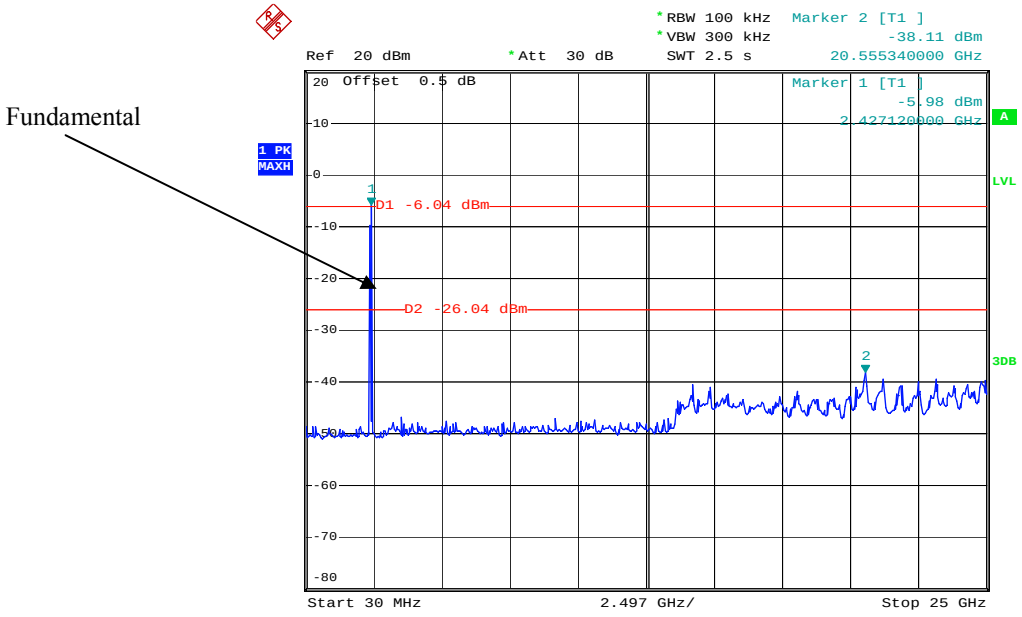
802.11n ht40 Low Channel



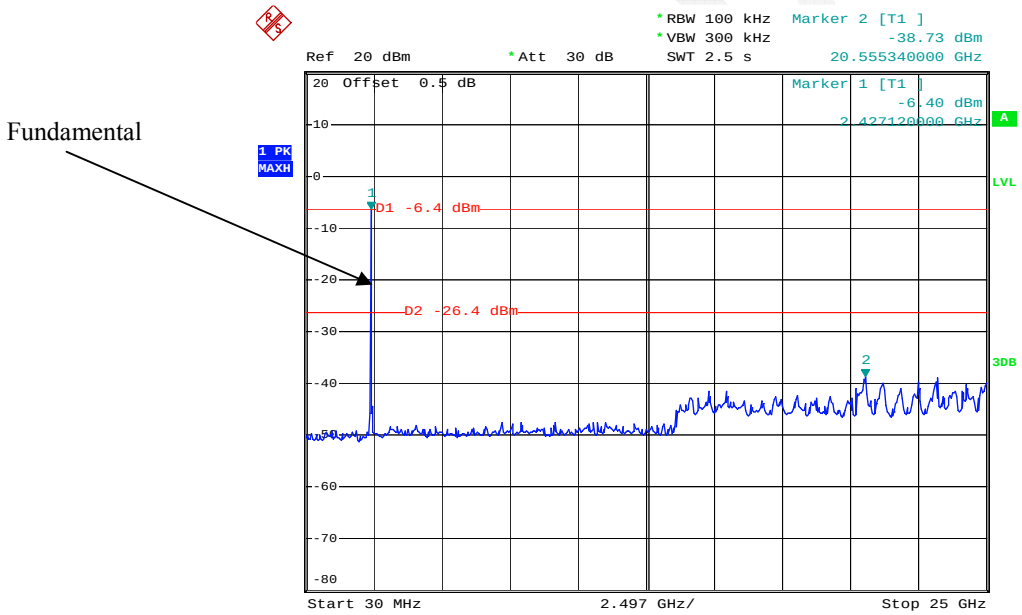
Date: 26.DEC.2014 10:09:38

802.11n ht40 Middle Channel



Date: 26.DEC.2014 10:12:06

802.11n ht40 High Channel



Date: 26.DEC.2014 10:13:17

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause8.1 Option 1:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.3 °C
Relative Humidity:	45 %
ATM Pressure:	101. 5 kPa

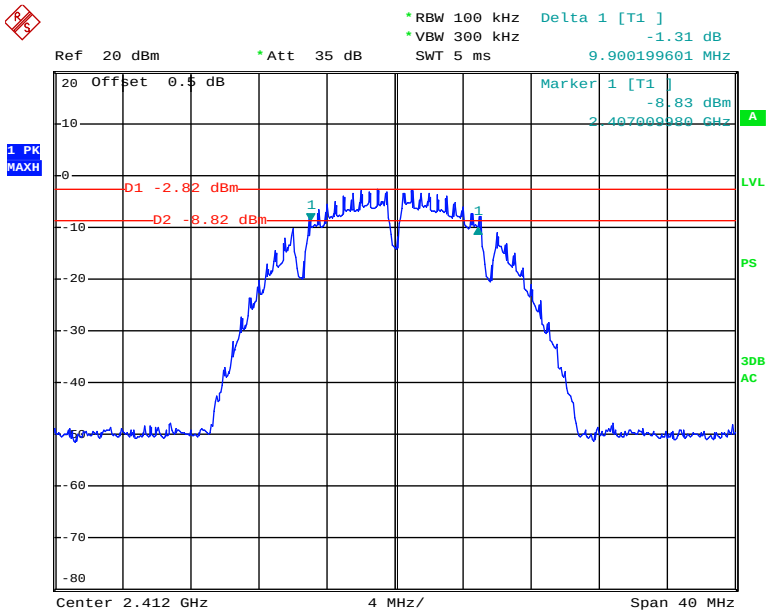
The testing was performed by Sevin Li on 2014-12-25.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots.

Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	9.90	≥0.5
	Middle	2437	9.90	≥0.5
	High	2462	9.90	≥0.5
802.11g	Low	2412	16.45	≥0.5
	Middle	2437	16.45	≥0.5
	High	2462	16.45	≥0.5
802.11n20	Low	2412	17.72	≥0.5
	Middle	2437	17.72	≥0.5
	High	2462	17.72	≥0.5
802.11n40	Low	2422	36.09	≥0.5
	Middle	2437	35.93	≥0.5
	High	2452	36.25	≥0.5

802.11b Low Channel



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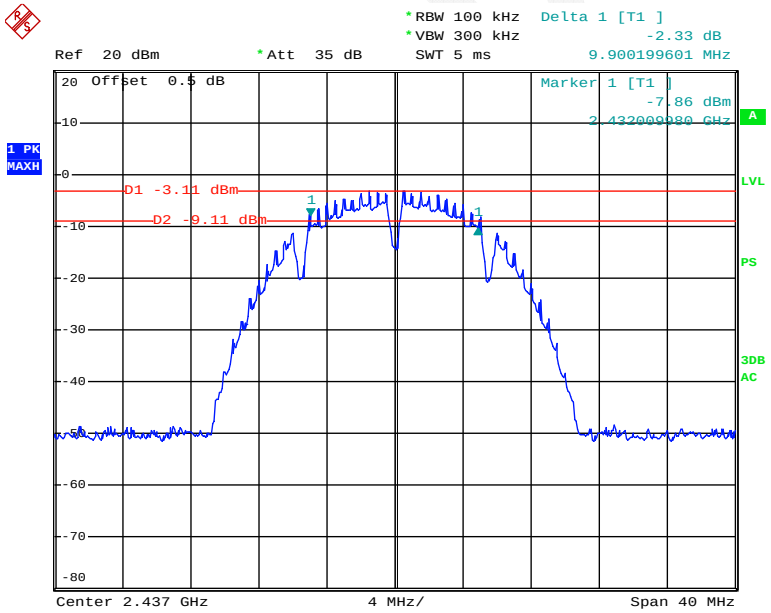
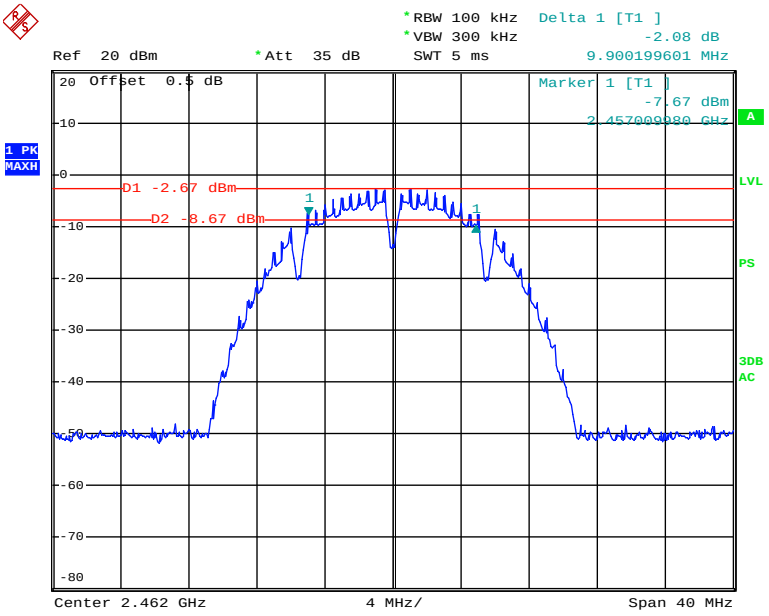
802.11b Middle Channel



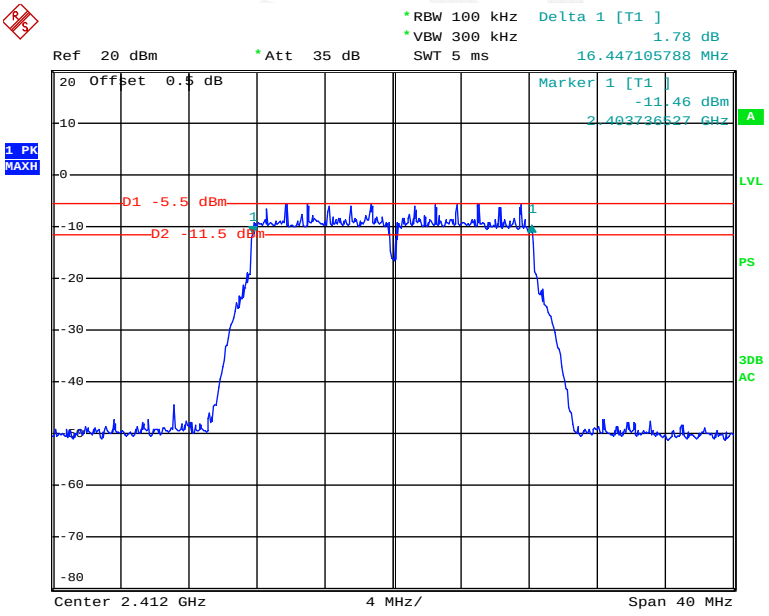
Date: 25.DEC.2014 15:25:48

802.11b High Channel



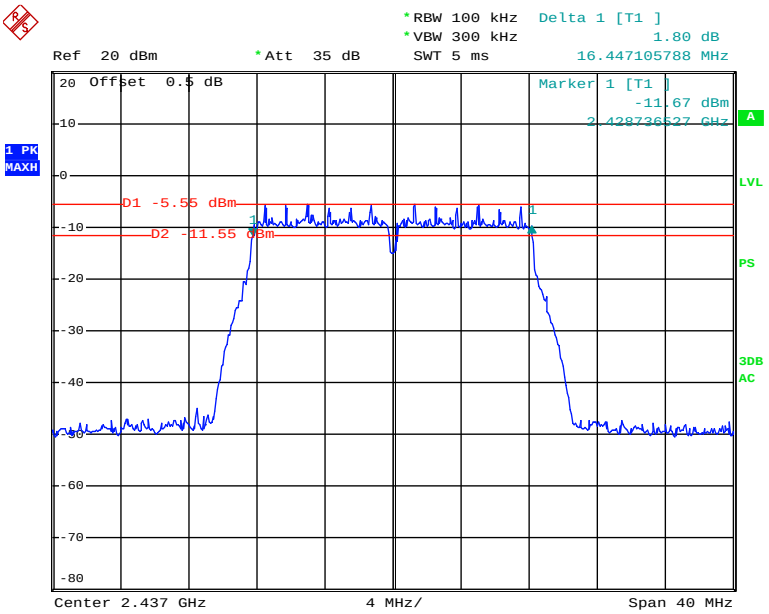
Date: 25.DEC.2014 15:32:02

802.11g Low Channel



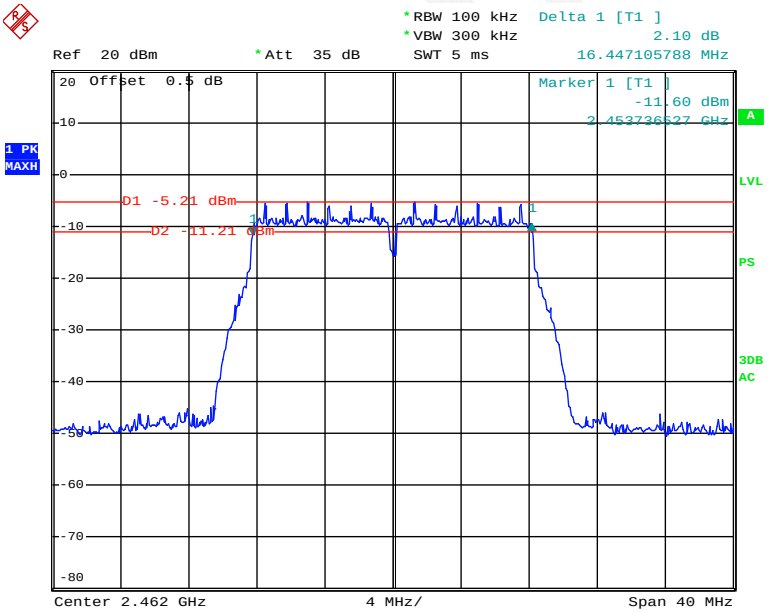
Date: 25.DEC.2014 15:45:55

802.11g Middle Channel



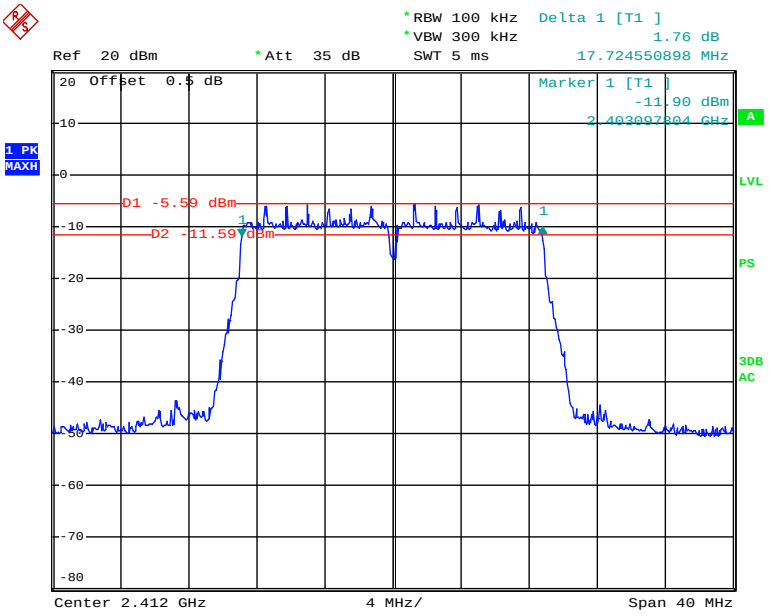
Date: 25.DEC.2014 15:41:08

802.11g High Channel



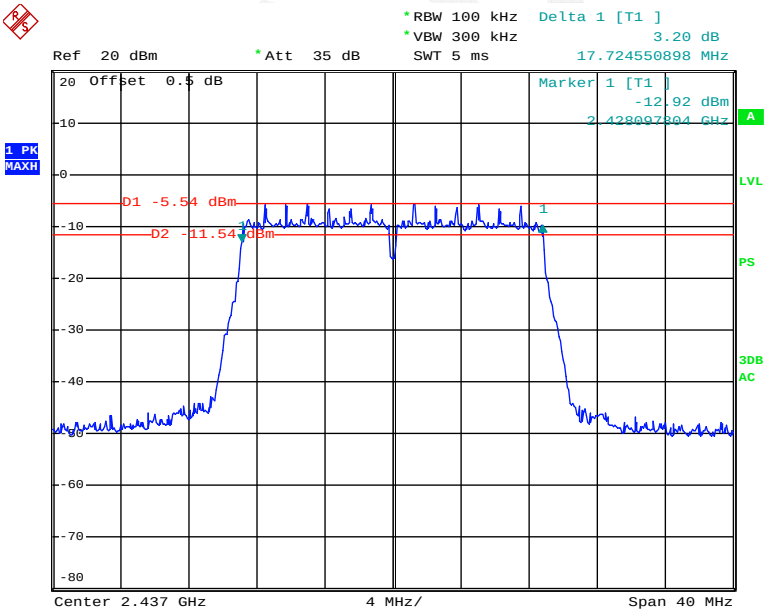
Date: 25.DEC.2014 15:36:46

802.11n ht20 Low Channel



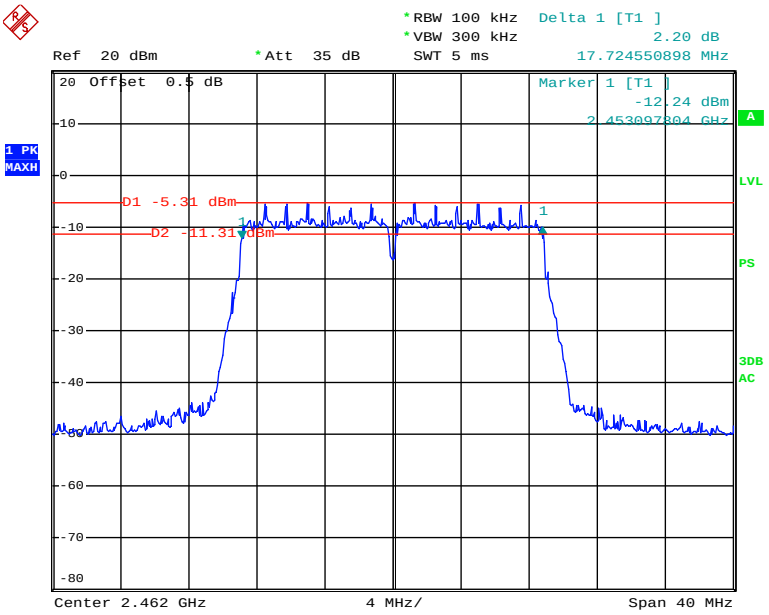
Date: 25.DEC.2014 15:50:15

802.11n ht20 Middle Channel



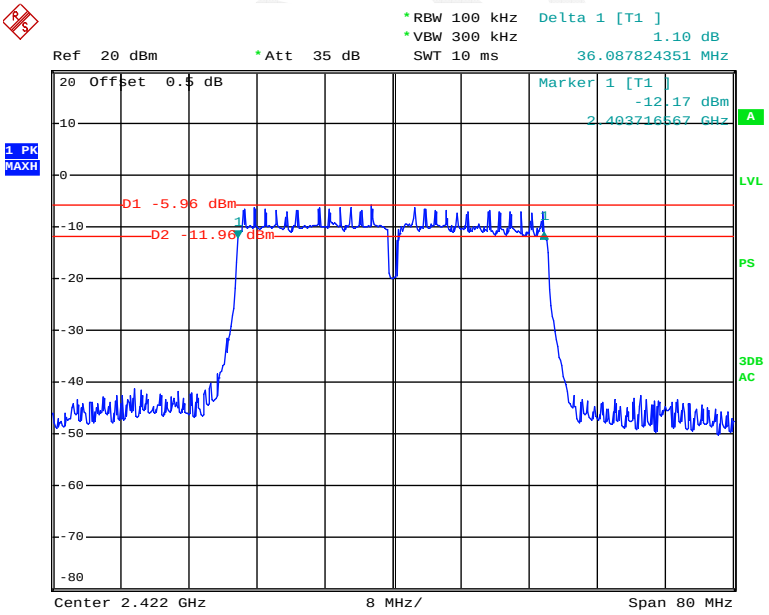
Date: 25.DEC.2014 15:56:33

802.11n ht20 High Channel



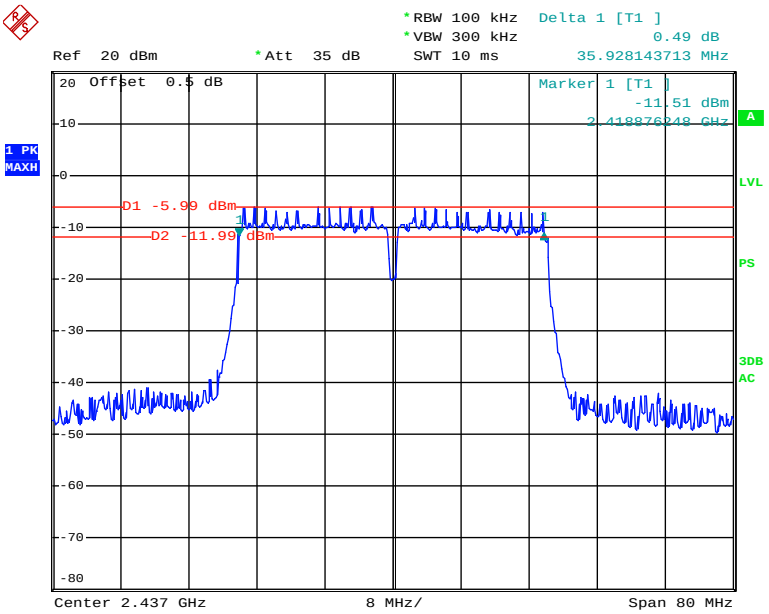
Date: 25.DEC.2014 16:00:51

802.11n ht40 Low Channel



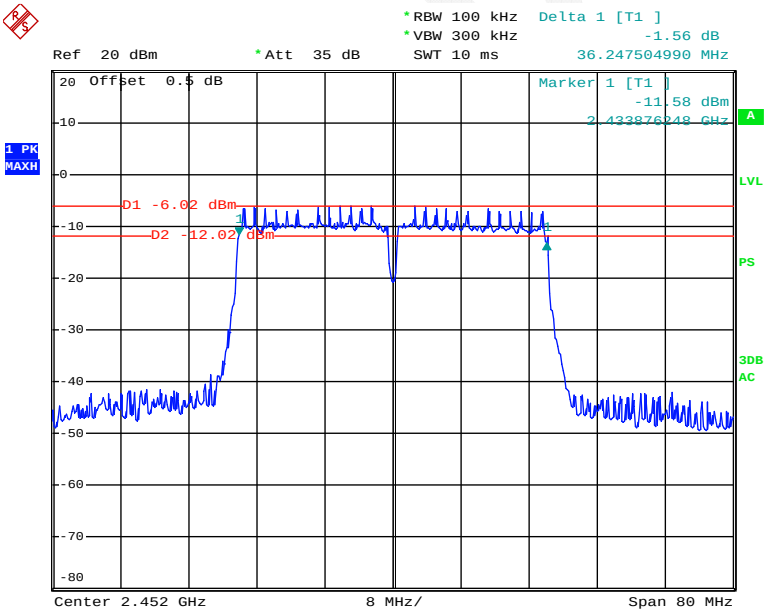
Date: 25.DEC.2014 16:39:53

802.11n ht40 Middle Channel



Date: 25.DEC.2014 16:34:38

802.11n ht40 High Channel



Date: 25.DEC.2014 16:38:39

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
3. Add a correction factor to the display.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54210016	2014-11-03	2015-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2014-11-03	2015-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2014-11-03	2015-11-03

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.3°C
Relative Humidity:	45 %
ATM Pressure:	101.5 kPa

The testing was performed by Sevin Li on 2014-12-25.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table.

Maximum peak conducted output power:

Mode	Channel	Frequency MHz	Reading dBm	Limit dBm	Result
802.11b	Low	2412	9.27	30	PASS
	Middle	2437	9.60	30	PASS
	High	2462	9.45	30	PASS
802.11g	Low	2412	14.51	30	PASS
	Middle	2437	14.20	30	PASS
	High	2462	14.41	30	PASS
802.11n20	Low	2412	13.99	30	PASS
	Middle	2437	14.08	30	PASS
	High	2462	14.45	30	PASS
802.11n40	Low	2422	16.58	30	PASS
	Middle	2437	16.67	30	PASS
	High	2452	16.67	30	PASS

Maximum conducted Average output power:

Mode	Channel	Frequency MHz	Reading dBm	Limit dBm	Result
802.11b	Low	2412	9.03	30	PASS
	Middle	2437	9.32	30	PASS
	High	2462	9.12	30	PASS
802.11g	Low	2412	9.21	30	PASS
	Middle	2437	9.04	30	PASS
	High	2462	9.24	30	PASS
802.11n20	Low	2412	9.11	30	PASS
	Middle	2437	8.97	30	PASS
	High	2462	9.28	30	PASS
802.11n40	Low	2422	8.89	30	PASS
	Middle	2437	8.92	30	PASS
	High	2452	8.86	30	PASS

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

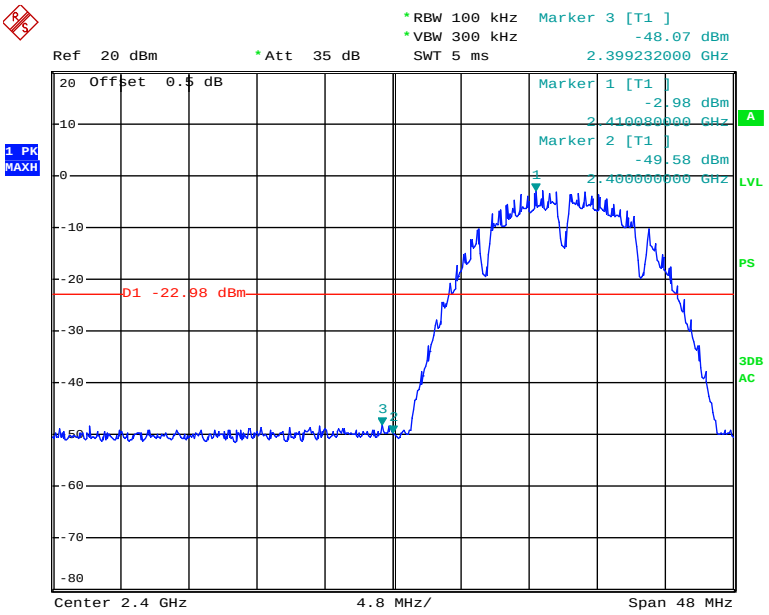
Temperature:	23.3 °C
Relative Humidity:	45 %
ATM Pressure:	101.5 kPa

The testing was performed by Sevin Li on 2014-12-25.

Test mode: Transmitting

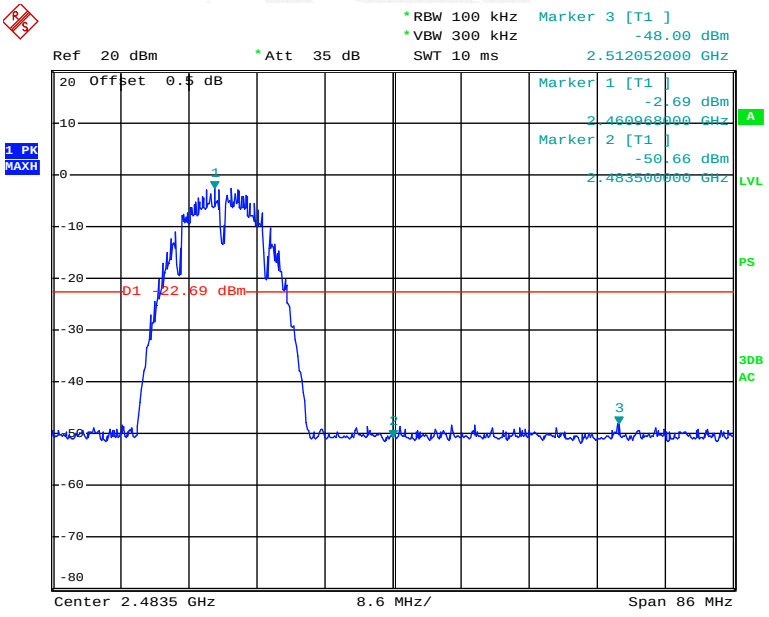
Test Result: Compliant. Please refer to following plots.

802.11b: Band Edge, Left Side



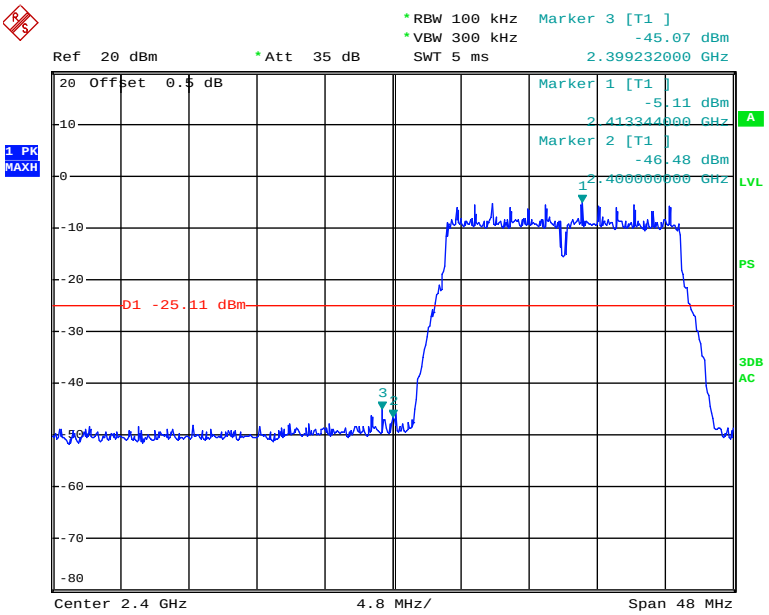
Date: 25.DEC.2014 15:24:50

802.11b: Band Edge, Right Side



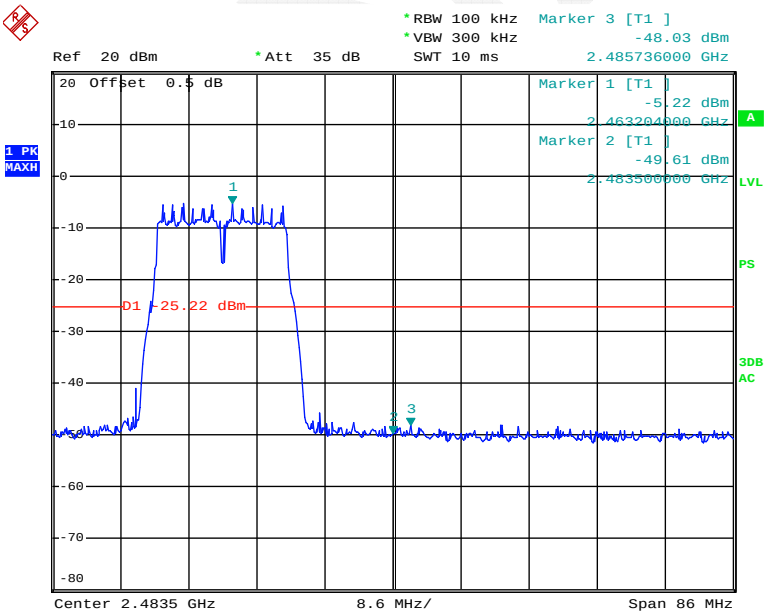
Date: 25.DEC.2014 15:34:58

802.11g: Band Edge, Left Side



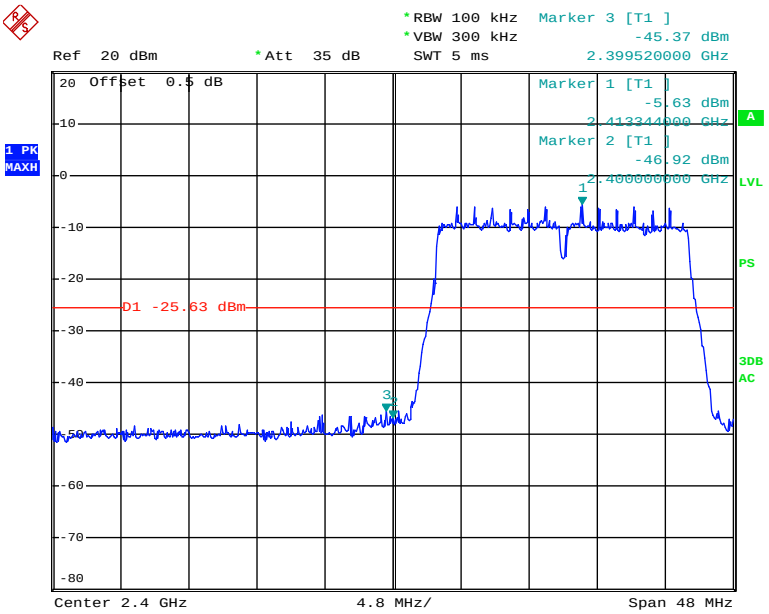
Date: 25.DEC.2014 15:49:05

802.11g: Band Edge, Right Side



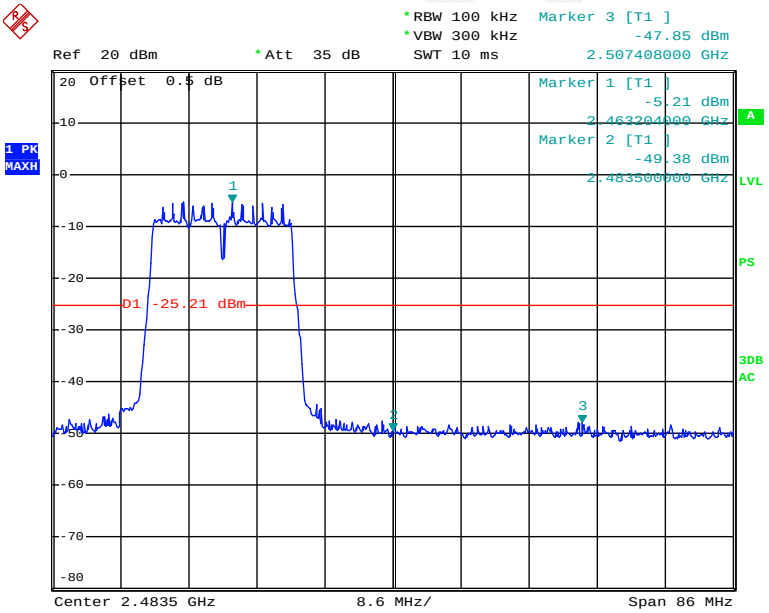
Date: 25.DEC.2014 15:39:52

802.11n ht20 Band Edge, Left Side



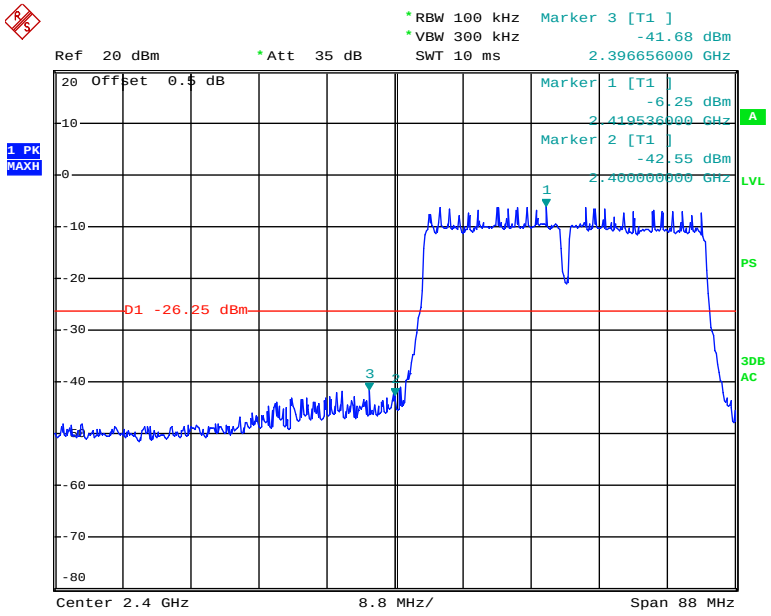
Date: 25.DEC.2014 15:55:23

802.11n ht20 Band Edge, Right Side



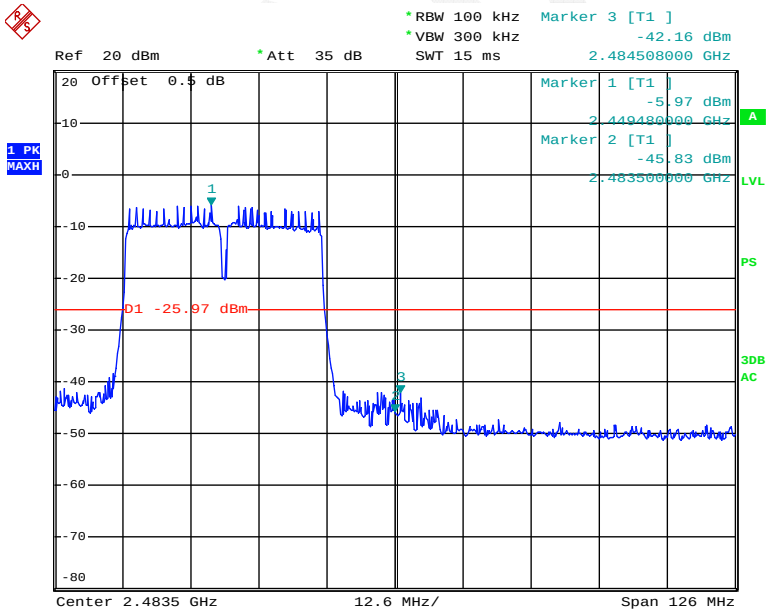
Date: 25.DEC.2014 16:04:19

802.11n ht40 Band Edge, Left Side



Date: 25.DEC.2014 16:44:09

802.11n ht40 Band Edge, Right Side



Date: 25.DEC.2014 16:33:39

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r02 clause10.2:

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3×RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	23.3 °C
Relative Humidity:	45 %
ATM Pressure:	101.5 kPa

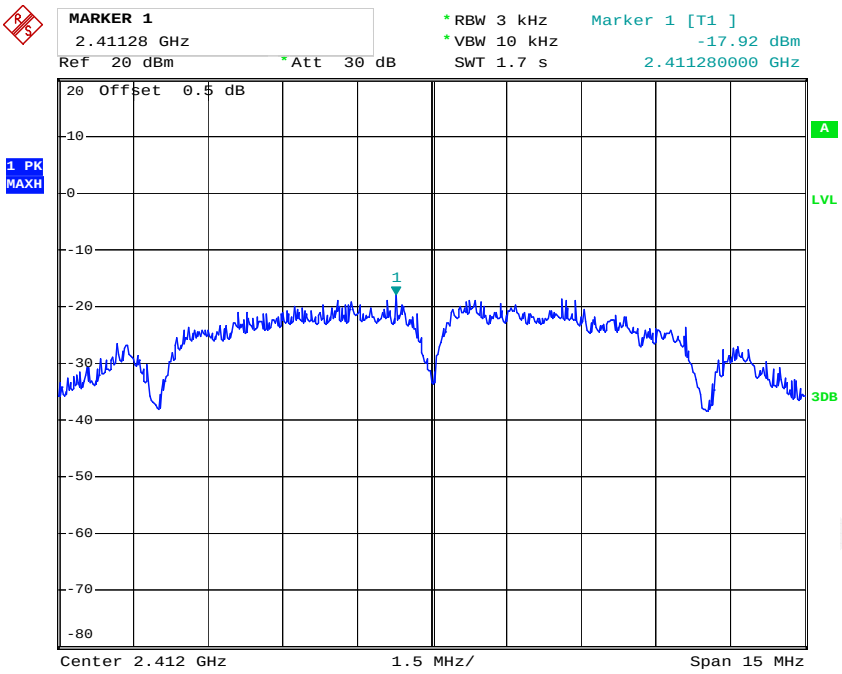
The testing was performed by Sevin Li on 2014-12-29.

Test Mode: Transmitting

Test Result: Compliant. Please refer to the following table and plots

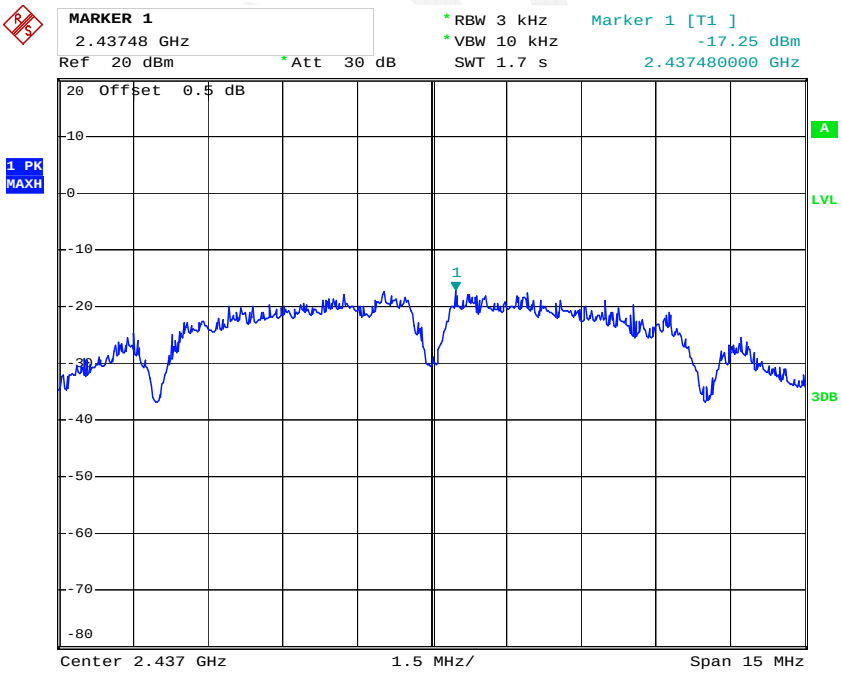
Mode	Channel Channel	Frequency MHz	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	Low	2412	-17.92	≤8	PASS
	Middle	2437	-17.25	≤8	PASS
	High	2462	-17.21	≤8	PASS
802.11g	Low	2412	-19.54	≤8	PASS
	Middle	2437	-19.47	≤8	PASS
	High	2462	-18.98	≤8	PASS
802.11n20	Low	2412	-19.65	≤8	PASS
	Middle	2437	-19.46	≤8	PASS
	High	2462	-19.11	≤8	PASS
802.11n40	Low	2422	-22.05	≤8	PASS
	Middle	2437	-22.28	≤8	PASS
	High	2452	-22.09	≤8	PASS

Power Spectral Density, 802.11b Low Channel



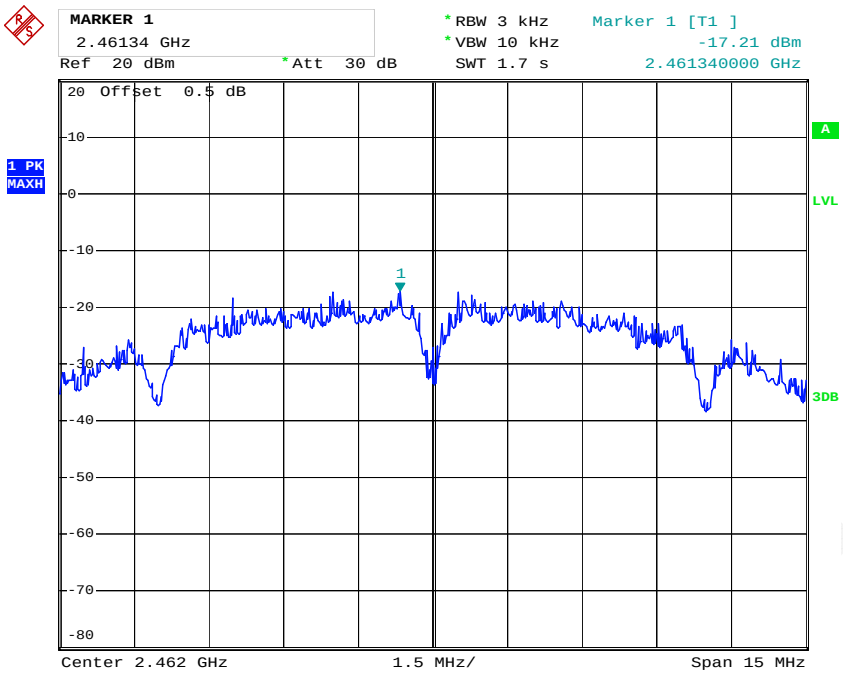
Date: 29.DEC.2014 15:57:14

Power Spectral Density, 802.11b Middle Channel



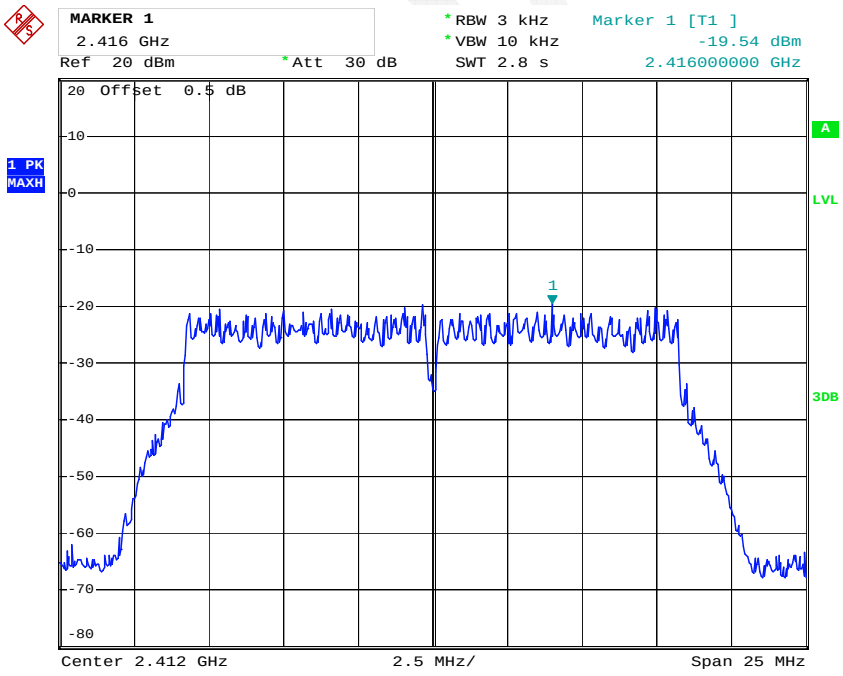
Date: 29.DEC.2014 15:58:01

Power Spectral Density, 802.11b High Channel



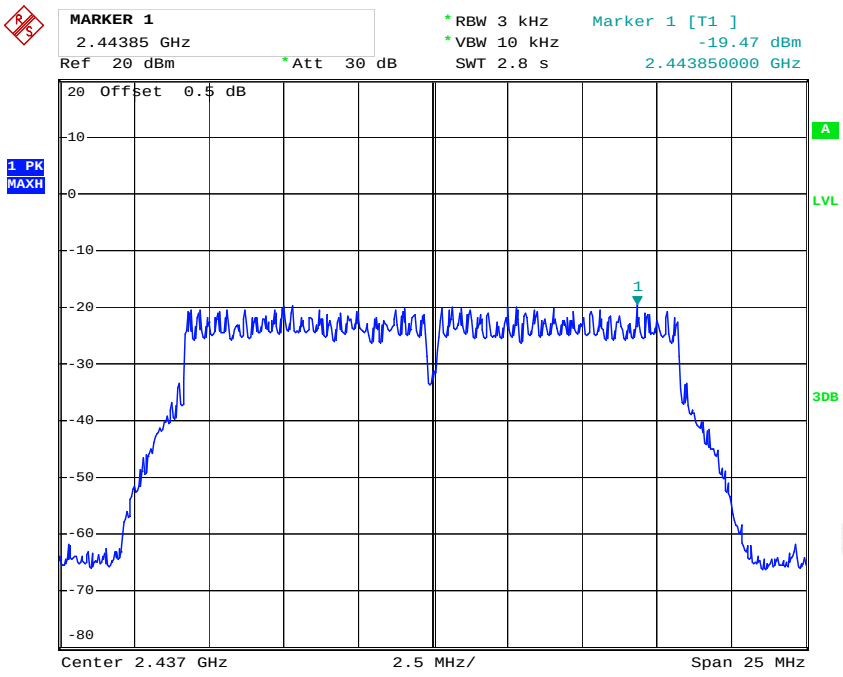
Date: 29.DEC.2014 15:58:57

Power Spectral Density, 802.11g Low Channel



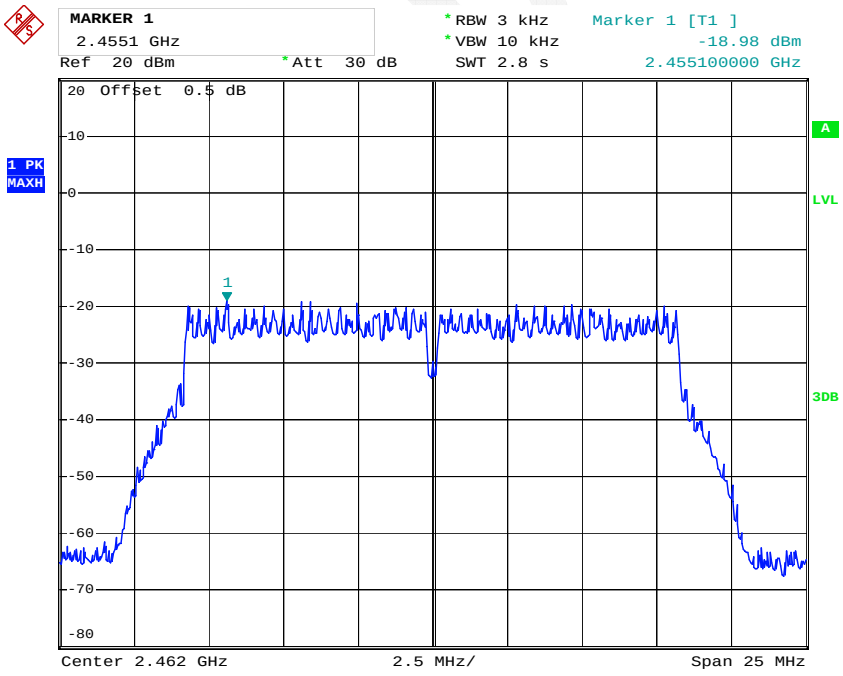
Date: 29.DEC.2014 16:03:30

Power Spectral Density, 802.11g Middle Channel



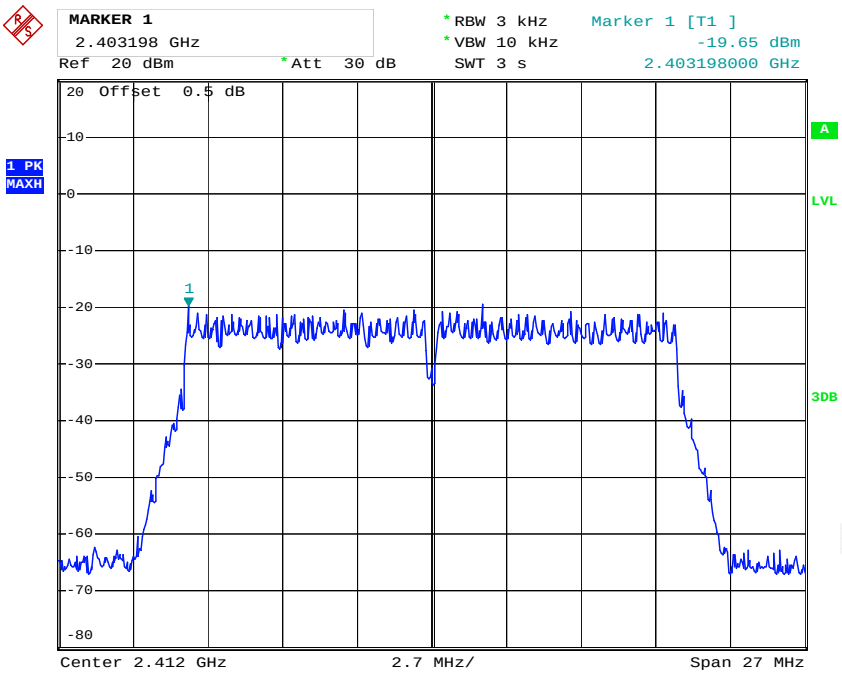
Date: 29.DEC.2014 16:02:58

Power Spectral Density, 802.11g High Channel



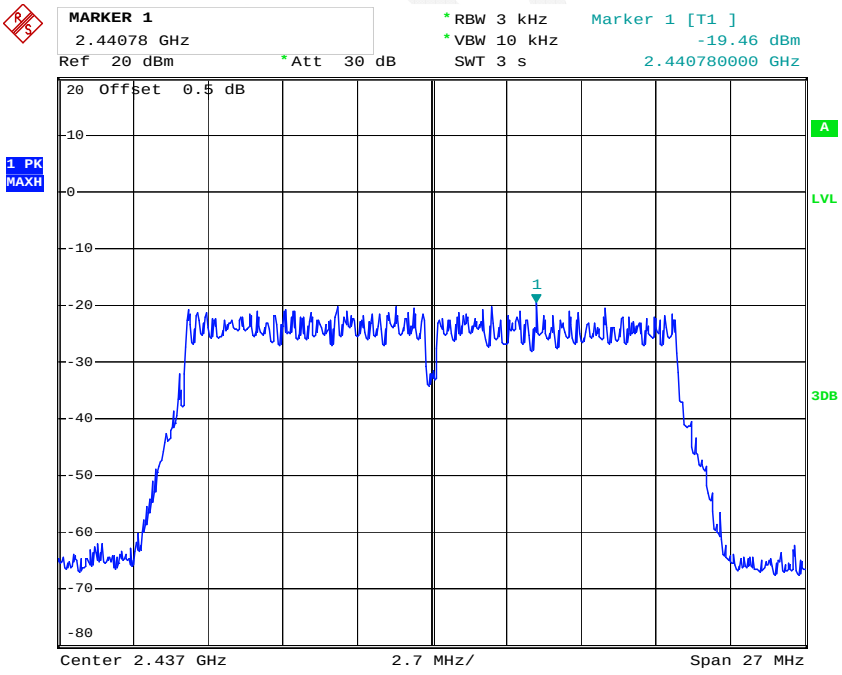
Date: 29.DEC.2014 16:02:08

Power Spectral Density, 802.11n ht20 Low Channel



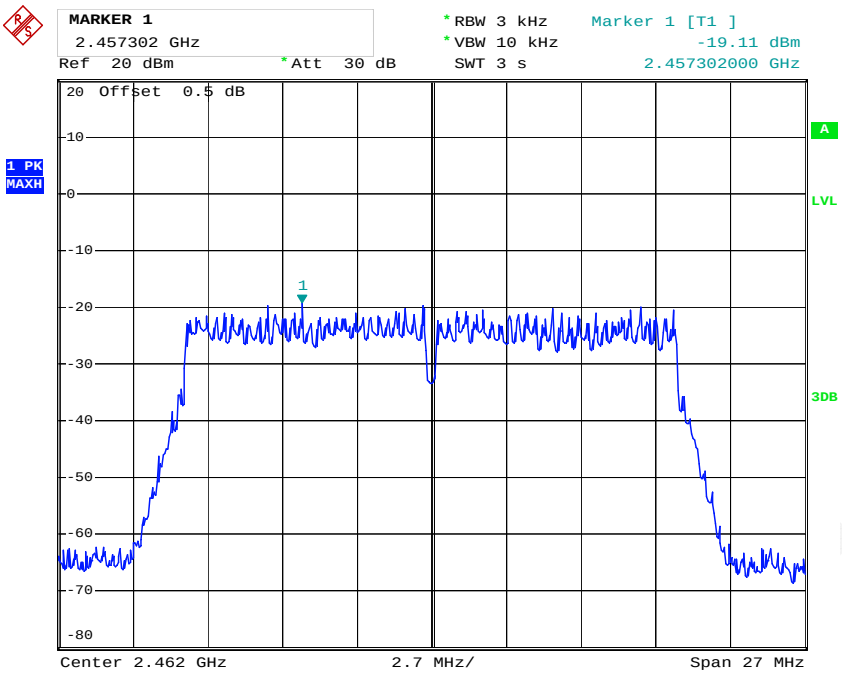
Date: 29.DEC.2014 16:04:50

Power Spectral Density, 802.11n ht20 Middle Channel



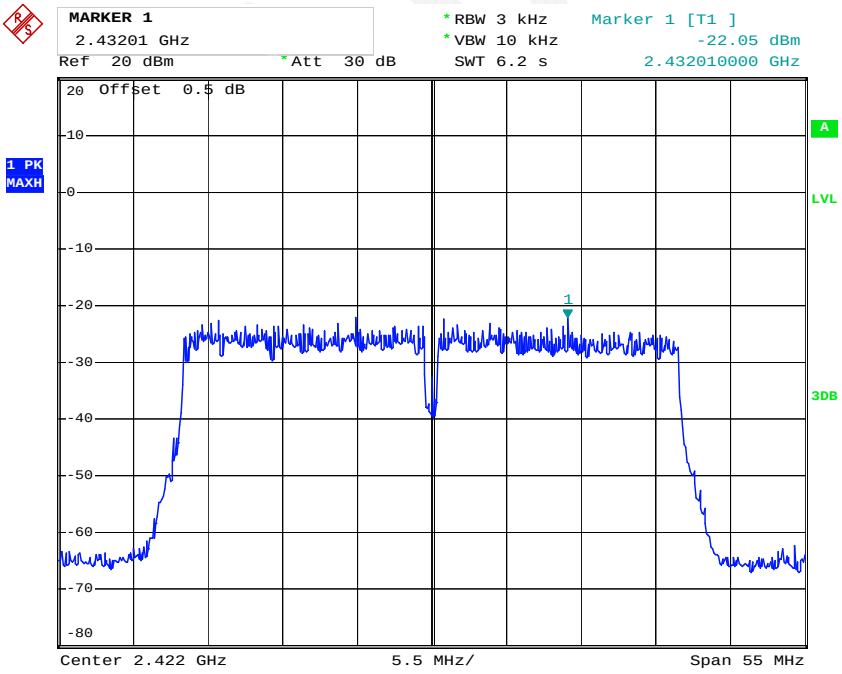
Date: 29.DEC.2014 16:05:26

Power Spectral Density, 802.11n ht20 High Channel



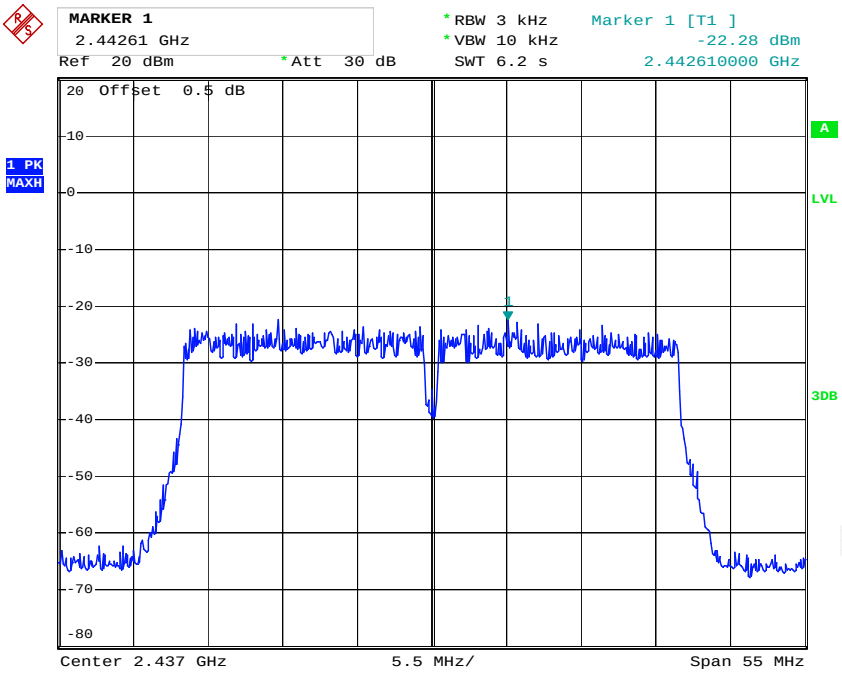
Date: 29.DEC.2014 16:06:04

Power Spectral Density, 802.11n ht40 Low Channel



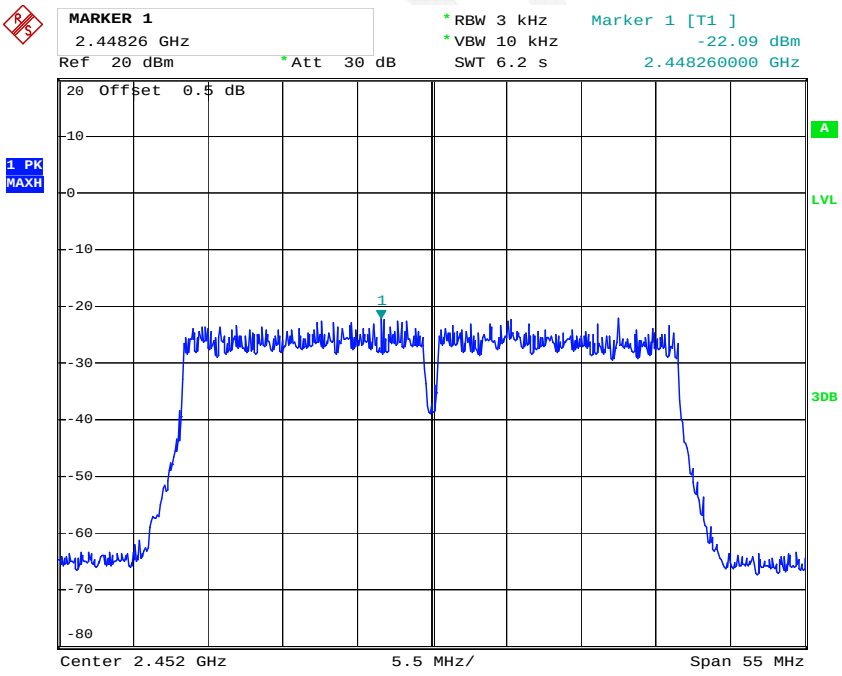
Date: 29.DEC.2014 16:08:21

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 29.DEC.2014 16:09:10

Power Spectral Density, 802.11n ht40 High Channel



Date: 29.DEC.2014 16:09:48

******* END OF REPORT *******