FCC PART 15.247

TEST REPORT

For

SEOWON INTECH CO., LTD.

689-47, Kumjung-Dong Kunpo-City, Kyunggi-Do, 435-862, South Korea

FCC ID: V7MSIG-200A

Report Type:	Product Type:
Original Report	Indoor Gateway

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Report Number:	RDG160226002-00
Report Date:	2016-03-08
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SEOWON INTECH CO., LTD.* 's product, model number: *SIG-200A (FCC ID: V7MSIG-200A)* (the "EUT") in this report was a *Indoor Gateway,* which was measured approximately: 16.6 cm (L) x 12 cm (W) x 9 cm (H), rated input voltage: DC 12V from adapter.

Adapter Information:
Model: KSAS0241200200D5
Input: 100-240V~50/60Hz 0.6A
Output: 12V 2.0A

All measurement and test data in this report was gathered from production sample serial number: 160226002 (Assigned by BACL, Dongguan). The EUT was received on 2016-02-26.

Objective

This report is prepared on behalf of *SEOWON INTECH CO., LTD.* 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)

No related submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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 Communications 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 06, 2015.

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 testing 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 device support both SISO and MIMO mode at 802.11b/g/n modes.

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 worst conditions (maximum power with 100% duty cycle) are the MIMO mode, the software setting as following table:

Software and version			MT7620 QA V1.0.6.0			
Mode	Channel	Frequency (MHz)	Data Rate (Mbps)		Power Level	
			Chain 0	Chain 1	Chain 0	Chain 1
802.11 b	Low	2412	1	1	3	6
	Middle	2437	1	1	4	5
	High	2462	1	1	6	7
802.11 g	Low	2412	6	6	3	6
	Middle	2437	6	6	2	2
	High	2462	6	6	6	7
2.4G 802.11 n20	Low	2412	MCS0	MCS0	1	5
	Middle	2437	MCS0	MCS0	0	2
	High	2462	MCS0	MCS0	6	7
2.4G 802.11 n40	Low	2422	MCS0	MCS0	4	6
	Middle	2437	MCS0	MCS0	4	6
	High	2452	MCS0	MCS0	8	9

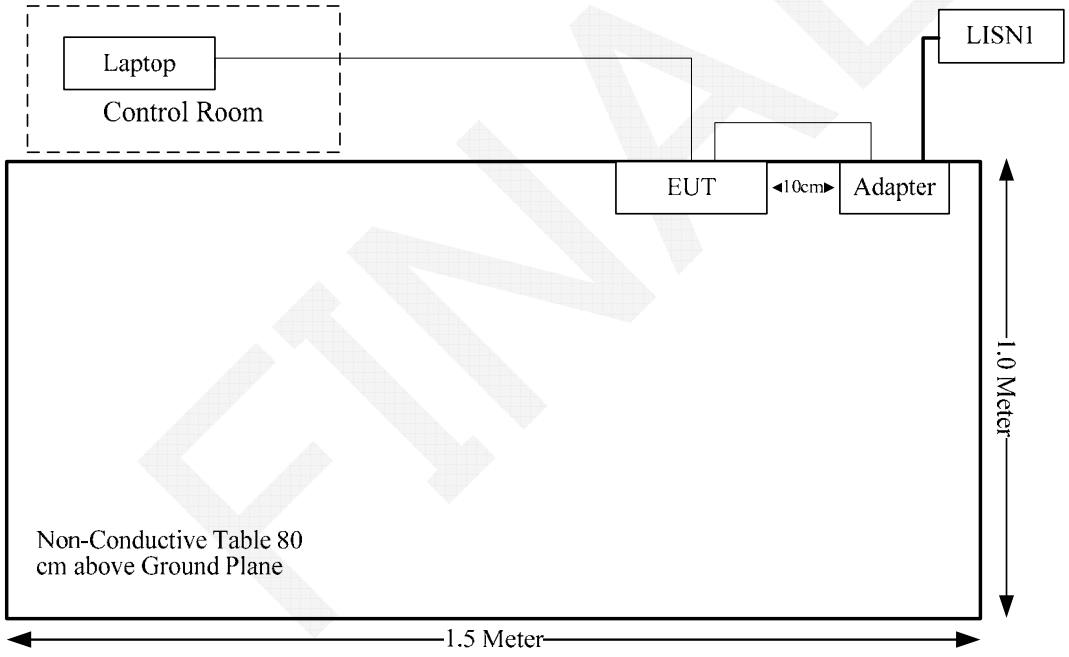
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Dell	Laptop	PP11L	N/A

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	Yes	No	10	EUT	Laptop

Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	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

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FCC §15.247 (i) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

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

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

Frequency (MHz)	**Antenna Gain**		**Tune-up Power**		**Evaluation Distance (cm)**	**Power Density (mW/cm^2)**	**MPE Limit (mW/cm^2)**
	(dBi)	**(numeric)**	**(dBm)**	**(mW)**			
2412-2462	2	1.585	21	125.893	20.00	0.040	1.0

Note: The tune-up power is 20+/-1dBm.

Result: The device meet FCC MPE at 20 cm distance

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 two omni-directional internal antennas for WiFi, which was permanently attached and the antenna gain is 2dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

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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

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The setup of EUT is according with per ANSI C63.10-2013 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.

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	2015-12-10	2016-12-09
R&S	L.I.S.N	ESH2-Z5	892107/021	2015-07-16	2016-07-15
R&S	Two-line V-network	ENV 216	3560.6550.12	2015-11-26	2016-11-25
N/A	Coaxial Cable	1.8m	N/A	2015-05-06	2016-05-06
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:

18.4 dB at **0.483938 MHz** in the **Neutral** conducted mode

Test Data

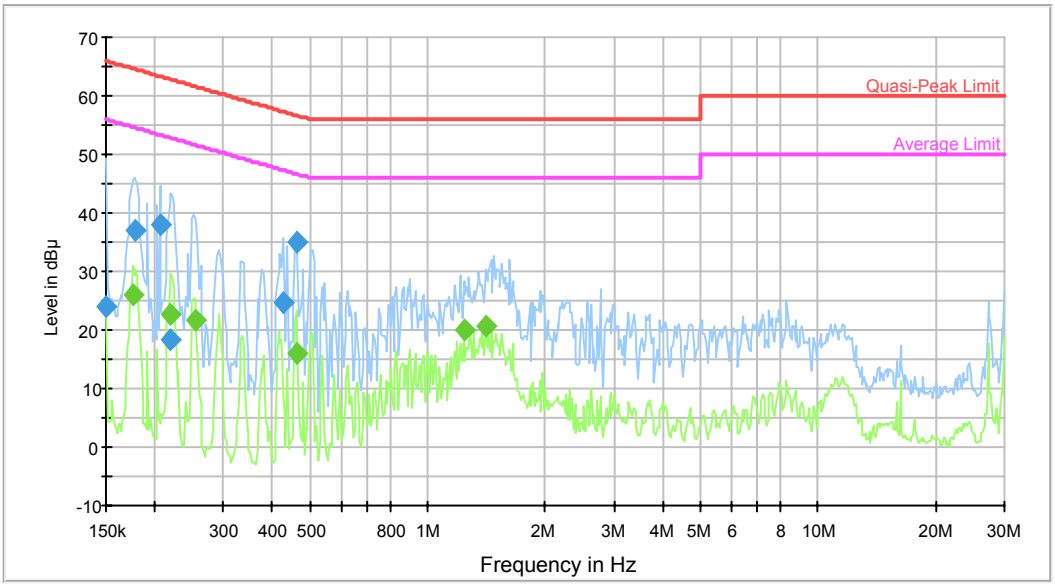
Environmental Conditions

Temperature:	22.3°C
Relative Humidity:	42%
ATM Pressure:	102.2 kPa

The testing was performed by Allen Qiao on 2016-02-26.

Test Mode: Transmitting

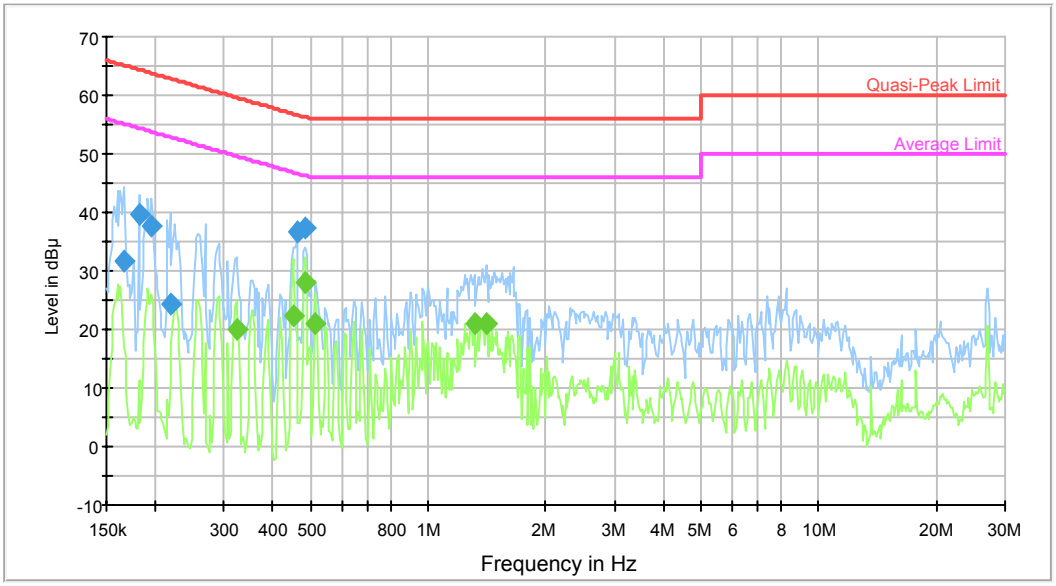
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	24.0	9.000	L1	9.8	42.0	66.0	Compliance
0.177322	36.9	9.000	L1	9.7	27.7	64.6	Compliance
0.206306	37.9	9.000	L1	9.7	25.5	63.4	Compliance
0.219886	18.2	9.000	L1	9.7	44.6	62.8	Compliance
0.426011	24.6	9.000	L1	9.8	32.7	57.3	Compliance
0.461346	35.1	9.000	L1	9.8	21.6	56.7	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.175915	25.9	9.000	L1	9.7	28.8	54.7	Compliance
0.219886	22.7	9.000	L1	9.7	30.1	52.8	Compliance
0.253797	21.7	9.000	L1	9.7	29.9	51.6	Compliance
0.461346	16.1	9.000	L1	9.8	30.6	46.7	Compliance
1.239175	20.1	9.000	L1	9.8	25.9	46.0	Compliance
1.407671	20.6	9.000	L1	9.8	25.4	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.166371	31.7	9.000	N	9.7	33.4	65.1	Compliance
0.181612	39.6	9.000	N	9.7	24.8	64.4	Compliance
0.195114	37.6	9.000	N	9.7	26.2	63.8	Compliance
0.218141	24.5	9.000	N	9.7	38.4	62.9	Compliance
0.461346	36.8	9.000	N	9.7	19.9	56.7	Compliance
0.483938	37.3	9.000	N	9.7	19.0	56.3	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.322331	20.1	9.000	N	9.7	29.5	49.6	Compliance
0.450448	22.5	9.000	N	9.7	24.4	46.9	Compliance
0.483938	27.9	9.000	N	9.7	18.4	46.3	Compliance
0.515791	20.9	9.000	N	9.7	25.1	46.0	Compliance
1.310256	20.9	9.000	N	9.8	25.1	46.0	Compliance
1.407671	20.9	9.000	N	9.8	25.1	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

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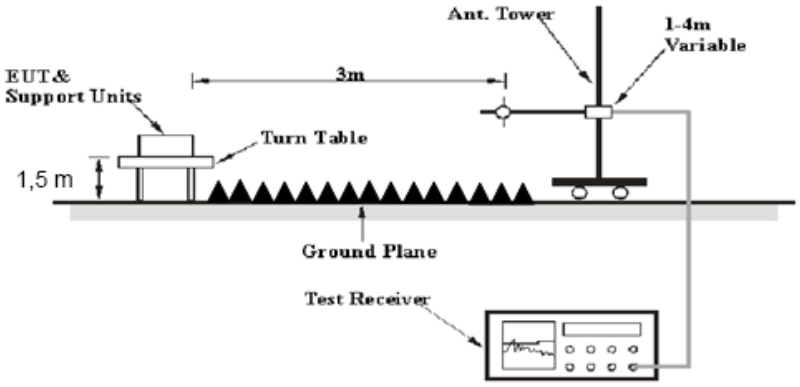
Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. 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.

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	/	AV

Test Procedure

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	2015-05-09	2016-05-09
Sunol Sciences	Antenna	JB3	A060611-3	2014-07-28	2017-07-27
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
R&S	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS LINDGREN	Horn Antenna	3115	000 527 35	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2016-02-19	2017-02-19
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2015-09-06	2016-09-06
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** 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:

0.58 dB at **4824 MHz** in the **Horizontal** polarization for WiFi Mode (802.11 b)

Test Data

Environmental Conditions

Temperature:	21.1~22.6 °C
Relative Humidity:	42~44 %
ATM Pressure:	101.9kPa

** The testing was performed by Allen Qiao from 2016-02-29 to 2016-03-02.*

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	71.41	PK	H	25.67	3.68	0.00	100.76	N/A	N/A
2412	67.66	AV	H	25.67	3.68	0.00	97.01	N/A	N/A
2412	68.92	PK	V	25.67	3.68	0.00	98.27	N/A	N/A
2412	65.43	AV	V	25.67	3.68	0.00	94.78	N/A	N/A
2400	28.22	PK	H	25.64	3.65	0.00	57.51	74.00	16.49
2400	14.3	AV	H	25.64	3.65	0.00	43.59	54.00	10.41
4824	46.82	PK	H	30.64	5.03	27.41	55.08	74.00	18.92
4824	45.16	AV	H	30.64	5.03	27.41	53.42	54.00	0.58
7236	32.49	PK	H	34.17	6.65	25.90	47.41	74.00	26.59
7236	19.96	AV	H	34.17	6.65	25.90	34.88	54.00	19.12
9648	29.4	PK	H	36.06	8.55	27.46	46.55	74.00	27.45
9648	16.76	AV	H	36.06	8.55	27.46	33.91	54.00	20.09
3745	31.54	PK	H	29.34	4.55	27.35	38.08	74.00	35.92
3745	19.21	AV	H	29.34	4.55	27.35	25.75	54.00	28.25
181.6	33.6	QP	H	11.37	1.57	21.45	25.09	43.50	18.41
Middle Channel: 2437 MHz									
2437	70.93	PK	H	25.74	3.75	0.00	100.42	N/A	N/A
2437	67.15	AV	H	25.74	3.75	0.00	96.64	N/A	N/A
2437	68.47	PK	V	25.74	3.75	0.00	97.96	N/A	N/A
2437	64.89	AV	V	25.74	3.75	0.00	94.38	N/A	N/A
4874	46.3	PK	H	30.77	5.14	27.42	54.79	74.00	19.21
4874	44.79	AV	H	30.77	5.14	27.42	53.28	54.00	0.72
7311	32.94	PK	H	34.35	6.74	25.88	48.15	74.00	25.85
7311	20.66	AV	H	34.35	6.74	25.88	35.87	54.00	18.13
9748	29.34	PK	H	36.30	8.61	27.24	47.01	74.00	26.99
9748	16.49	AV	H	36.30	8.61	27.24	34.16	54.00	19.84
3745	31.86	PK	H	29.34	4.55	27.35	38.40	74.00	35.60
3745	19.52	AV	H	29.34	4.55	27.35	26.06	54.00	27.94
4195	32.48	PK	H	29.86	4.99	27.07	40.26	74.00	33.74
4195	20.15	AV	H	29.86	4.99	27.07	27.93	54.00	26.07
181.6	33.8	QP	H	11.37	1.57	21.45	25.29	43.50	18.21
High Channel: 2462 MHz									
2462	70.66	PK	H	25.80	3.75	0.00	100.21	N/A	N/A
2462	67.08	AV	H	25.80	3.75	0.00	96.63	N/A	N/A
2462	68.12	PK	V	25.80	3.75	0.00	97.67	N/A	N/A
2462	64.61	AV	V	25.80	3.75	0.00	94.16	N/A	N/A
2483.5	25.99	PK	H	25.86	3.67	0.00	55.52	74.00	18.48
2483.5	14.23	AV	H	25.86	3.67	0.00	43.76	54.00	10.24
4924	45.41	PK	H	30.90	5.34	27.43	54.22	74.00	19.78
4924	44.21	AV	H	30.90	5.34	27.43	53.02	54.00	0.98
7386	34.66	PK	H	34.53	6.83	25.86	50.16	74.00	23.84
7386	24.5	AV	H	34.53	6.83	25.86	40.00	54.00	14.00
9848	29.42	PK	H	36.54	8.66	26.94	47.68	74.00	26.32
9848	16.87	AV	H	36.54	8.66	26.94	35.13	54.00	18.87
3745	31.95	PK	H	29.34	4.55	27.35	38.49	74.00	35.51
3745	19.61	AV	H	29.34	4.55	27.35	26.15	54.00	27.85
181.6	33.4	QP	H	11.37	1.57	21.45	24.89	43.50	18.61

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	69.47	PK	H	25.67	3.68	0.00	98.82	N/A	N/A
2412	61.27	AV	H	25.67	3.68	0.00	90.62	N/A	N/A
2412	67.82	PK	V	25.67	3.68	0.00	97.17	N/A	N/A
2412	59.31	AV	V	25.67	3.68	0.00	88.66	N/A	N/A
2400	39.98	PK	H	25.64	3.65	0.00	69.27	74.00	4.73
2400	23.6	AV	H	25.64	3.65	0.00	52.89	54.00	1.11
4824	46.43	PK	H	30.64	5.03	27.41	54.69	74.00	19.31
4824	34.29	AV	H	30.64	5.03	27.41	42.55	54.00	11.45
7236	32.29	PK	H	34.17	6.65	25.90	47.21	74.00	26.79
7236	19.44	AV	H	34.17	6.65	25.90	34.36	54.00	19.64
9648	29.03	PK	H	36.06	8.55	27.46	46.18	74.00	27.82
9648	16.23	AV	H	36.06	8.55	27.46	33.38	54.00	20.62
3760	32.71	PK	H	29.37	4.56	27.36	39.28	74.00	34.72
3760	20.39	AV	H	29.37	4.56	27.36	26.96	54.00	27.04
181.6	33.7	QP	H	11.37	1.57	21.45	25.19	43.50	18.31
Middle Channel: 2437 MHz									
2437	69.28	PK	H	25.74	3.75	0.00	98.77	N/A	N/A
2437	60.76	AV	H	25.74	3.75	0.00	90.25	N/A	N/A
2437	67.69	PK	V	25.74	3.75	0.00	97.18	N/A	N/A
2437	59.11	AV	V	25.74	3.75	0.00	88.60	N/A	N/A
4874	43.92	PK	H	30.77	5.14	27.42	52.41	74.00	21.59
4874	31.9	AV	H	30.77	5.14	27.42	40.39	54.00	13.61
7311	33.14	PK	H	34.35	6.74	25.88	48.35	74.00	25.65
7311	19.74	AV	H	34.35	6.74	25.88	34.95	54.00	19.05
9748	29.17	PK	H	36.30	8.61	27.24	46.84	74.00	27.16
9748	16.35	AV	H	36.30	8.61	27.24	34.02	54.00	19.98
3760	31.79	PK	H	29.37	4.56	27.36	38.36	74.00	35.64
3760	19.42	AV	H	29.37	4.56	27.36	25.99	54.00	28.01
3910	31.81	PK	H	29.70	4.44	27.28	38.67	74.00	35.33
3910	19.54	AV	H	29.70	4.44	27.28	26.40	54.00	27.60
181.6	33.6	QP	H	11.37	1.57	21.45	25.09	43.50	18.41
High Channel: 2462 MHz									
2462	71.39	PK	H	25.80	3.75	0.00	100.94	N/A	N/A
2462	62.68	AV	H	25.80	3.75	0.00	92.23	N/A	N/A
2462	69.71	PK	V	25.80	3.75	0.00	99.26	N/A	N/A
2462	61.2	AV	V	25.80	3.75	0.00	90.75	N/A	N/A
2483.5	28.72	PK	H	25.86	3.67	0.00	58.25	74.00	15.75
2483.5	14.79	AV	H	25.86	3.67	0.00	44.32	54.00	9.68
4924	44.58	PK	H	30.90	5.34	27.43	53.39	74.00	20.61
4924	32.57	AV	H	30.90	5.34	27.43	41.38	54.00	12.62
7386	35.71	PK	H	34.53	6.83	25.86	51.21	74.00	22.79
7386	22.24	AV	H	34.53	6.83	25.86	37.74	54.00	16.26
9848	29.55	PK	H	36.54	8.66	26.94	47.81	74.00	26.19
9848	16.62	AV	H	36.54	8.66	26.94	34.88	54.00	19.12
3760	32.34	PK	H	29.37	4.56	27.36	38.91	74.00	35.09
3760	20.01	AV	H	29.37	4.56	27.36	26.58	54.00	27.42
181.6	33.3	QP	H	11.37	1.57	21.45	24.79	43.50	18.71

802.11 n ht20 Mode

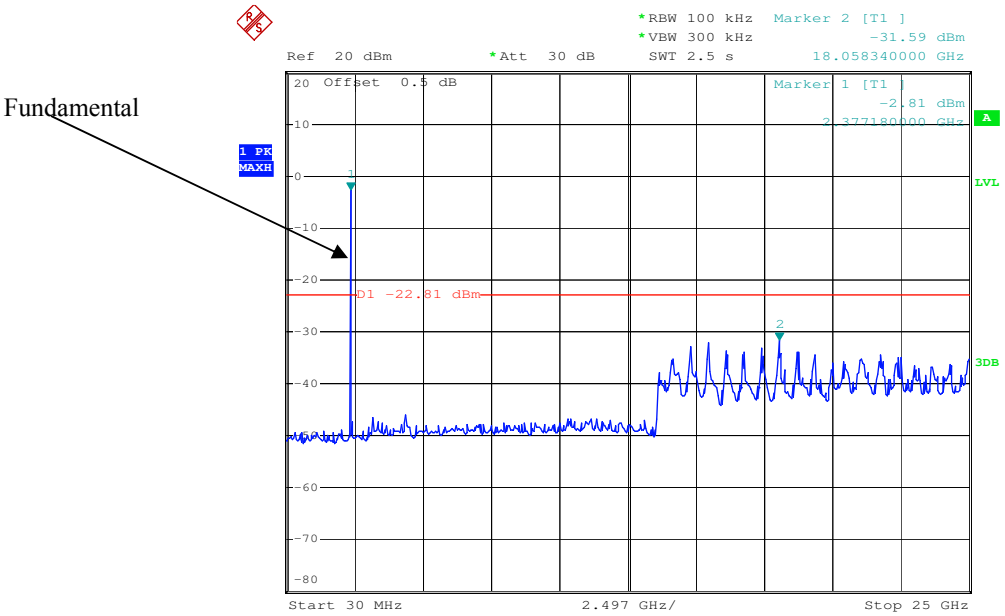
Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel: 2412 MHz									
2412	71.51	PK	H	25.67	3.68	0.00	100.86	N/A	N/A
2412	62.83	AV	H	25.67	3.68	0.00	92.18	N/A	N/A
2412	69.49	PK	V	25.67	3.68	0.00	98.84	N/A	N/A
2412	60.78	AV	V	25.67	3.68	0.00	90.13	N/A	N/A
2400	29.5	PK	H	25.64	3.65	0.00	58.79	74.00	15.21
2400	17.97	AV	H	25.64	3.65	0.00	47.26	54.00	6.74
4824	45.92	PK	H	30.64	5.03	27.41	54.18	74.00	19.82
4824	32.35	AV	H	30.64	5.03	27.41	40.61	54.00	13.39
7236	31.94	PK	H	34.17	6.65	25.90	46.86	74.00	27.14
7236	18.96	AV	H	34.17	6.65	25.90	33.88	54.00	20.12
9648	29.04	PK	H	36.06	8.55	27.46	46.19	74.00	27.81
9648	16.26	AV	H	36.06	8.55	27.46	33.41	54.00	20.59
3760	32.11	PK	H	29.37	4.56	27.36	38.68	74.00	35.32
3760	19.92	AV	H	29.37	4.56	27.36	26.49	54.00	27.51
181.6	33.7	QP	H	11.37	1.57	21.45	25.19	43.50	18.31
Middle Channel: 2437 MHz									
2437	72.78	PK	H	25.74	3.75	0.00	102.27	N/A	N/A
2437	63.7	AV	H	25.74	3.75	0.00	93.19	N/A	N/A
2437	70.62	PK	V	25.74	3.75	0.00	100.11	N/A	N/A
2437	61.69	AV	V	25.74	3.75	0.00	91.18	N/A	N/A
4874	43.72	PK	H	30.77	5.14	27.42	52.21	74.00	21.79
4874	30.13	AV	H	30.77	5.14	27.42	38.62	54.00	15.38
7311	33.36	PK	H	34.35	6.74	25.88	48.57	74.00	25.43
7311	19.38	AV	H	34.35	6.74	25.88	34.59	54.00	19.41
9748	28.9	PK	H	36.30	8.61	27.24	46.57	74.00	27.43
9748	16.38	AV	H	36.30	8.61	27.24	34.05	54.00	19.95
3760	32.37	PK	H	29.37	4.56	27.36	38.94	74.00	35.06
3760	20.06	AV	H	29.37	4.56	27.36	26.63	54.00	27.37
3910	32.12	PK	H	29.70	4.44	27.28	38.98	74.00	35.02
3910	19.81	AV	H	29.70	4.44	27.28	26.67	54.00	27.33
181.6	33.6	QP	H	11.37	1.57	21.45	25.09	43.50	18.41
High Channel: 2462 MHz									
2462	72.52	PK	H	25.80	3.75	0.00	102.07	N/A	N/A
2462	63.93	AV	H	25.80	3.75	0.00	93.48	N/A	N/A
2462	70.41	PK	V	25.80	3.75	0.00	99.96	N/A	N/A
2462	61.89	AV	V	25.80	3.75	0.00	91.44	N/A	N/A
2483.5	27.94	PK	H	25.86	3.67	0.00	57.47	74.00	16.53
2483.5	14.18	AV	H	25.86	3.67	0.00	43.71	54.00	10.29
4924	44.9	PK	H	30.90	5.34	27.43	53.71	74.00	20.29
4924	32.39	AV	H	30.90	5.34	27.43	41.20	54.00	12.80
7386	36.18	PK	H	34.53	6.83	25.86	51.68	74.00	22.32
7386	21.23	AV	H	34.53	6.83	25.86	36.73	54.00	17.27
9848	29.02	PK	H	36.54	8.66	26.94	47.28	74.00	26.72
9848	16.45	AV	H	36.54	8.66	26.94	34.71	54.00	19.29
3760	31.86	PK	H	29.37	4.56	27.36	38.43	74.00	35.57
3760	19.51	AV	H	29.37	4.56	27.36	26.08	54.00	27.92
181.6	33.5	QP	H	11.37	1.57	21.45	24.99	43.50	18.51

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	71.01	PK	H	25.70	3.71	0.00	100.42	N/A	N/A
2422	61.81	AV	H	25.70	3.71	0.00	91.22	N/A	N/A
2422	68.47	PK	V	25.70	3.71	0.00	97.88	N/A	N/A
2422	59.31	AV	V	25.70	3.71	0.00	88.72	N/A	N/A
2400	31.09	PK	H	25.64	3.65	0.00	60.38	74.00	13.62
2400	18.64	AV	H	25.64	3.65	0.00	47.93	54.00	6.07
4844	40.87	PK	H	30.69	4.99	27.42	49.13	74.00	24.87
4844	29.5	AV	H	30.69	4.99	27.42	37.76	54.00	16.24
7266	31.87	PK	H	34.24	6.68	25.89	46.90	74.00	27.10
7266	19.23	AV	H	34.24	6.68	25.89	34.26	54.00	19.74
9688	28.96	PK	H	36.15	8.58	27.37	46.32	74.00	27.68
9688	16.28	AV	H	36.15	8.58	27.37	33.64	54.00	20.36
3760	32.35	PK	H	29.37	4.56	27.36	38.92	74.00	35.08
3760	19.97	AV	H	29.37	4.56	27.36	26.54	54.00	27.46
181.6	33.4	QP	H	11.37	1.57	21.45	24.89	43.50	18.61
Middle Channel: 2437 MHz									
2437	71.3	PK	H	25.74	3.75	0.00	100.79	N/A	N/A
2437	62.67	AV	H	25.74	3.75	0.00	92.16	N/A	N/A
2437	68.73	PK	V	25.74	3.75	0.00	98.22	N/A	N/A
2437	60.04	AV	V	25.74	3.75	0.00	89.53	N/A	N/A
4874	42.83	PK	H	30.77	5.14	27.42	51.32	74.00	22.68
4874	30.19	AV	H	30.77	5.14	27.42	38.68	54.00	15.32
7311	32.7	PK	H	34.35	6.74	25.88	47.91	74.00	26.09
7311	19.61	AV	H	34.35	6.74	25.88	34.82	54.00	19.18
9748	29.03	PK	H	36.30	8.61	27.24	46.70	74.00	27.30
9748	16.4	AV	H	36.30	8.61	27.24	34.07	54.00	19.93
3760	31.88	PK	H	29.37	4.56	27.36	38.45	74.00	35.55
3760	19.62	AV	H	29.37	4.56	27.36	26.19	54.00	27.81
3910	31.59	PK	H	29.70	4.44	27.28	38.45	74.00	35.55
3910	19.28	AV	H	29.70	4.44	27.28	26.14	54.00	27.86
181.6	33.3	QP	H	11.37	1.57	21.45	24.79	43.50	18.71
High Channel: 2452 MHz									
2452	70.8	PK	H	25.78	3.78	0.00	100.36	N/A	N/A
2452	61.62	AV	H	25.78	3.78	0.00	91.18	N/A	N/A
2452	68.21	PK	V	25.78	3.78	0.00	97.77	N/A	N/A
2452	59.08	AV	V	25.78	3.78	0.00	88.64	N/A	N/A
2483.5	36.11	PK	H	25.86	3.67	0.00	65.64	74.00	8.36
2483.5	18.94	AV	H	25.86	3.67	0.00	48.47	54.00	5.53
4904	41.32	PK	H	30.85	5.31	27.43	50.05	74.00	23.95
4904	29.52	AV	H	30.85	5.31	27.43	38.25	54.00	15.75
7356	33.94	PK	H	34.45	6.79	25.87	49.31	74.00	24.69
7356	20.37	AV	H	34.45	6.79	25.87	35.74	54.00	18.26
9808	29.27	PK	H	36.44	8.64	27.09	47.26	74.00	26.74
9808	16.5	AV	H	36.44	8.64	27.09	34.49	54.00	19.51
3760	32.07	PK	H	29.37	4.56	27.36	38.64	74.00	35.36
3760	19.84	AV	H	29.37	4.56	27.36	26.41	54.00	27.59
181.6	33.2	QP	H	11.37	1.57	21.45	24.69	43.50	18.81

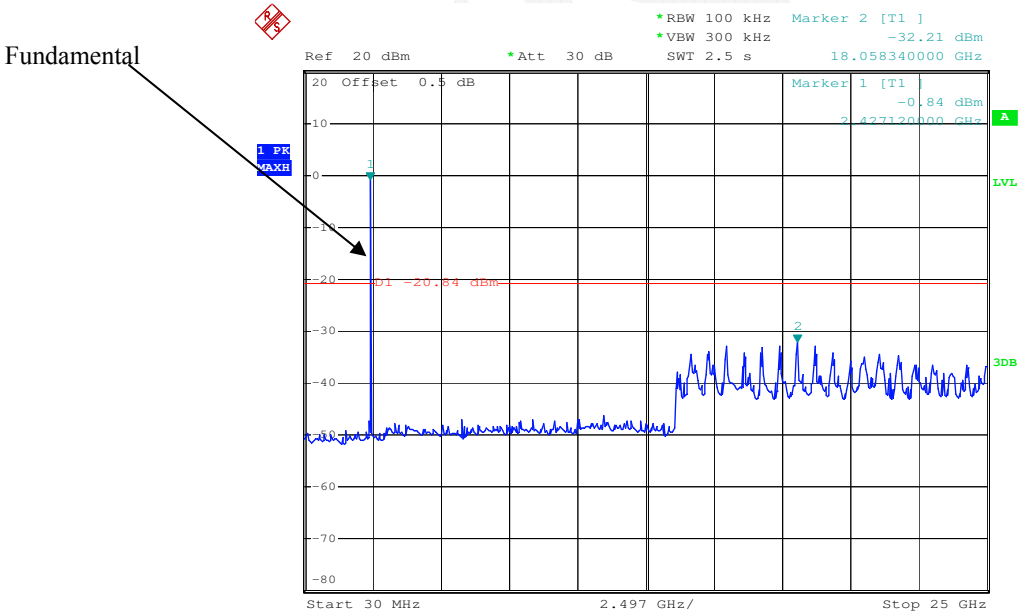
Conducted Spurious Emissions at Antenna Port

Chain 0, 802.11b Low Channel



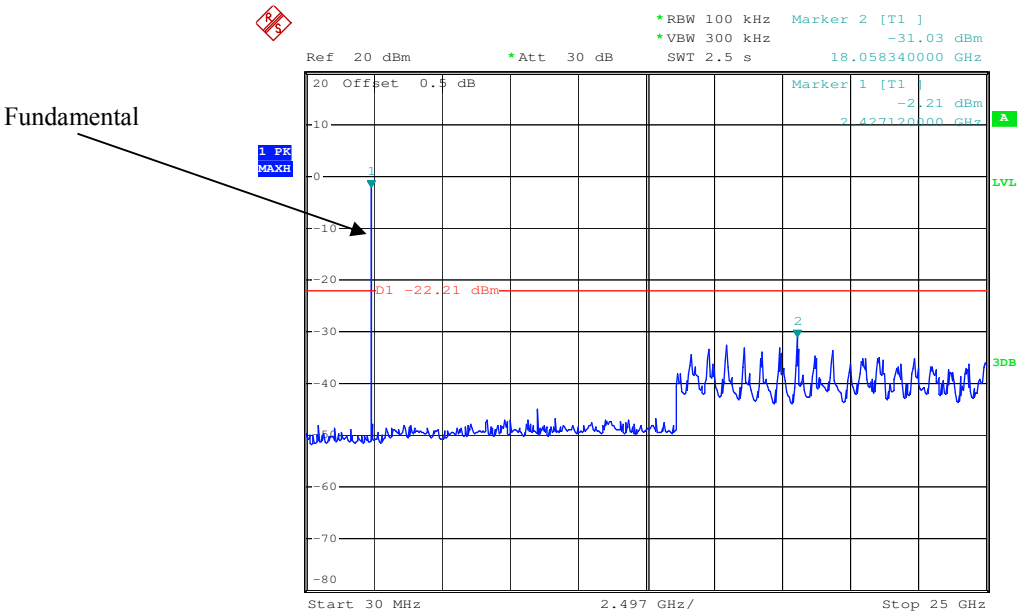
Date: 2.MAR.2016 14:23:32

Chain 0, 802.11b Middle Channel



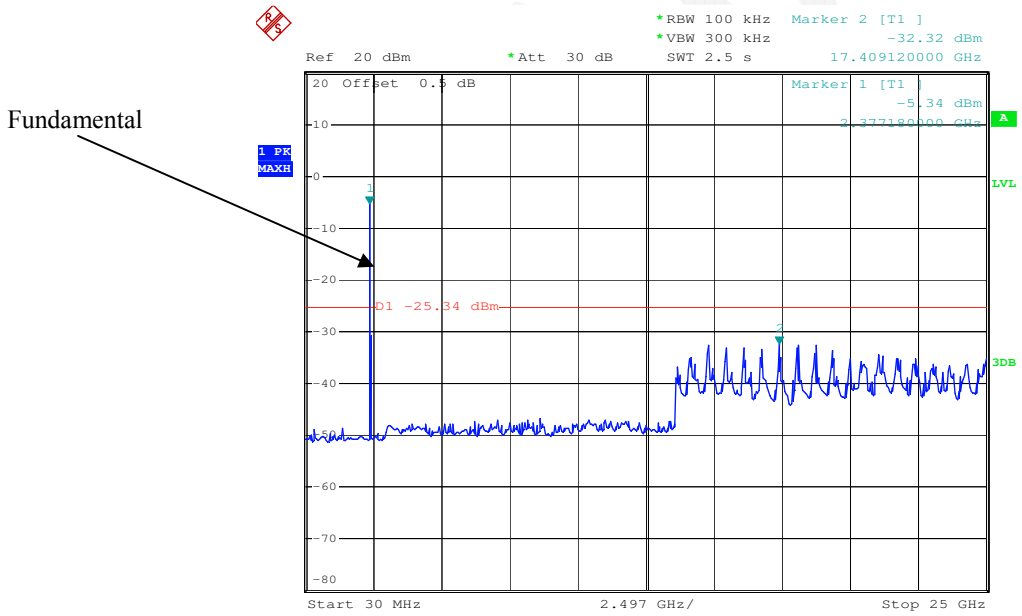
Date: 2.MAR.2016 14:26:41

Chain 0, 802.11b High Channel



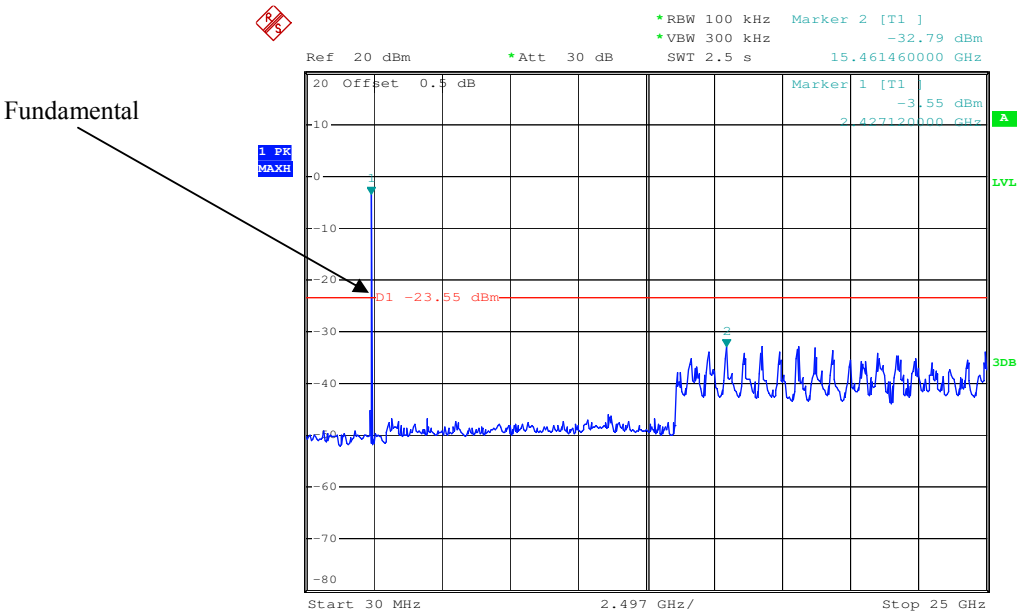
Date: 2.MAR.2016 14:30:52

Chain 0, 802.11g Low Channel



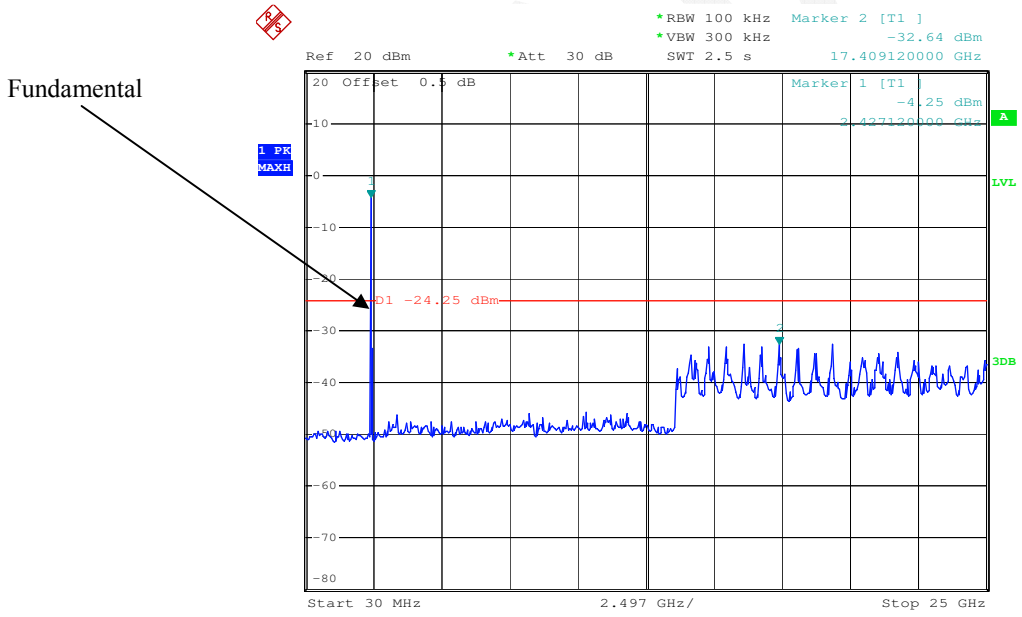
Date: 29.FEB.2016 13:38:51

Chain 0, 802.11g Middle Channel



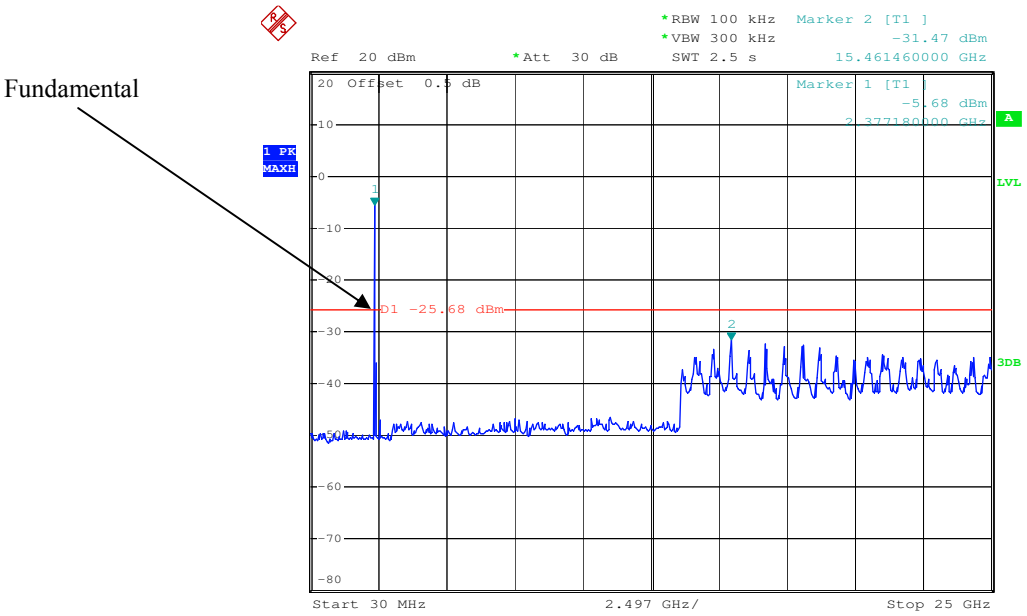
Date: 29.FEB.2016 13:47:14

Chain 0, 802.11g High Channel



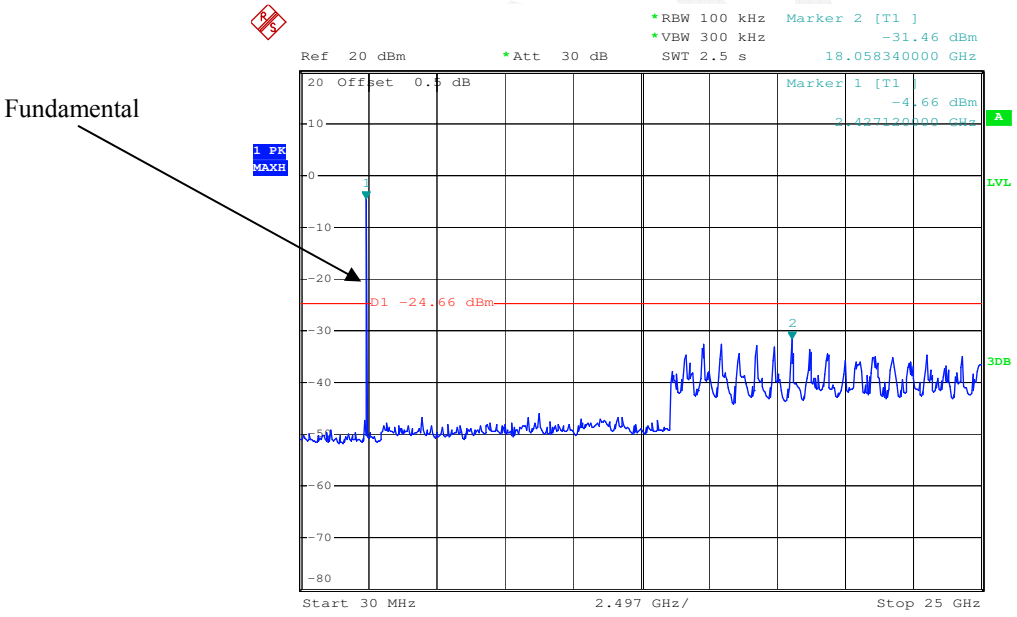
Date: 29.FEB.2016 13:50:16

Chain 0, 802.11n ht20 Low Channel



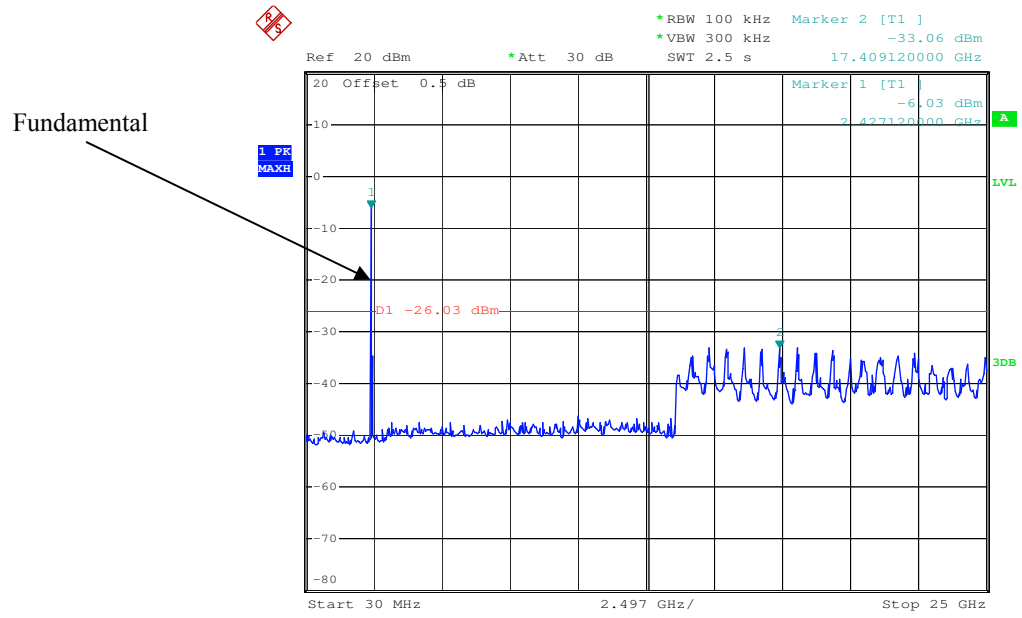
Date: 29.FEB.2016 13:54:40

Chain 0, 802.11n ht20 Middle Channel



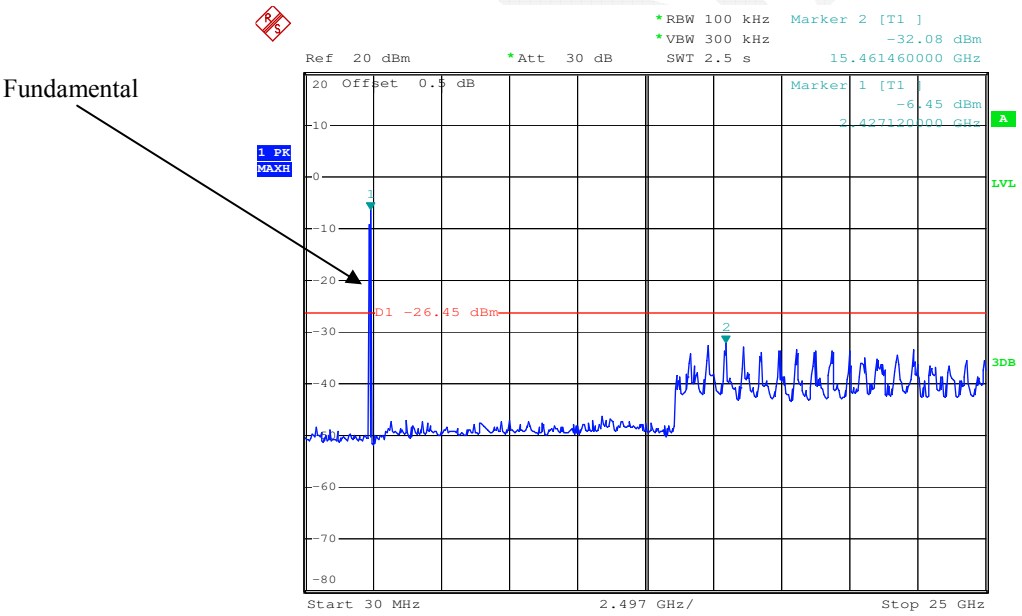
Date: 29.FEB.2016 14:00:52

Chain 0, 802.11n ht20 High Channel



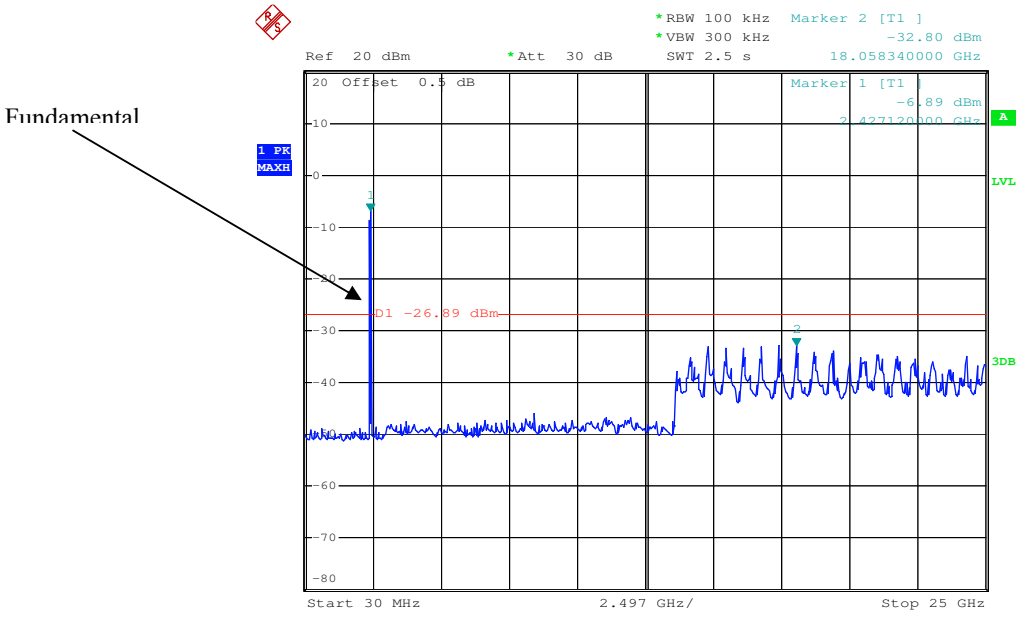
Date: 29.FEB.2016 14:07:08

Chain 0, 802.11n ht40 Low Channel



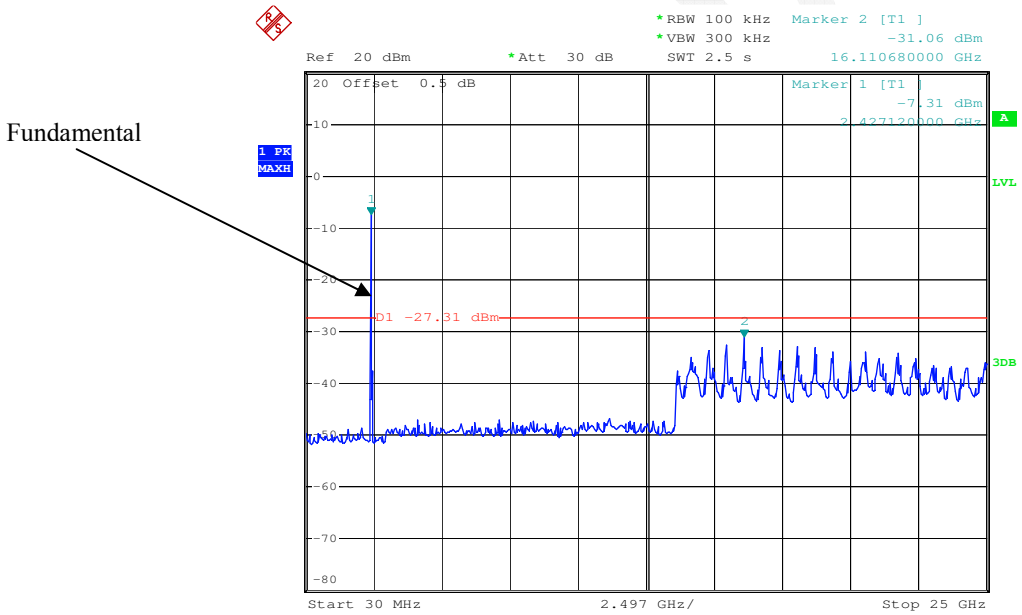
Date: 29.FEB.2016 14:10:34

Chain 0, 802.11n ht40 Middle Channel



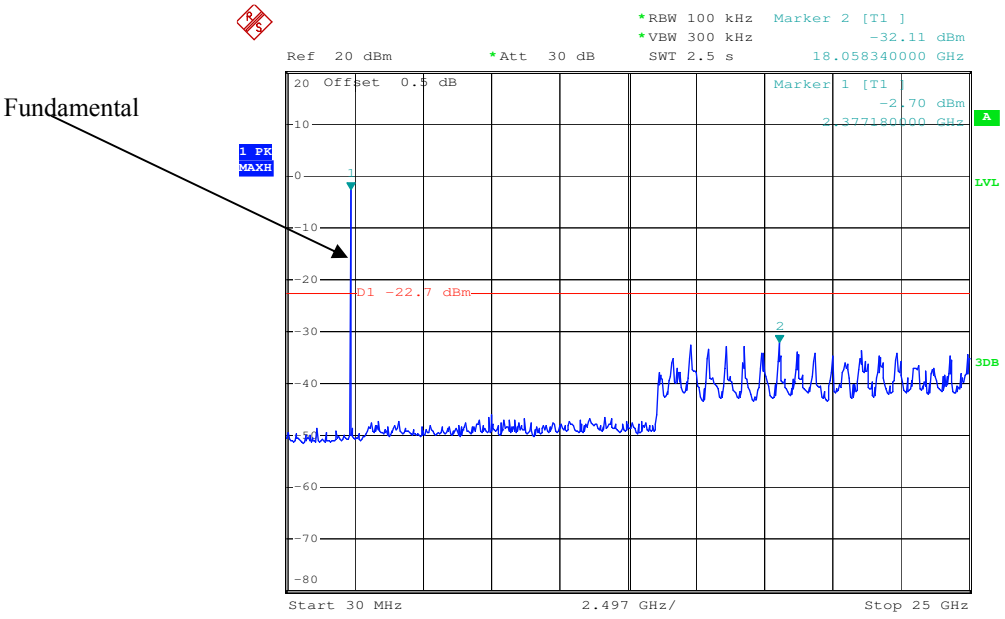
Date: 29.FEB.2016 14:14:04

Chain 0, 802.11n ht40 High Channel



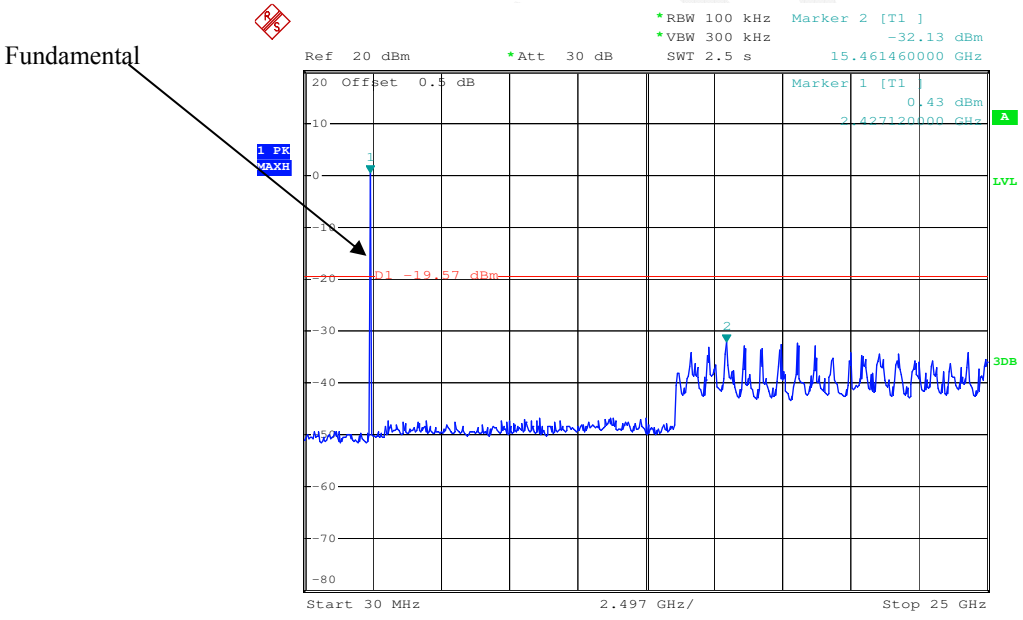
Date: 29.FEB.2016 14:17:01

Chain 1, 802.11b Low Channel



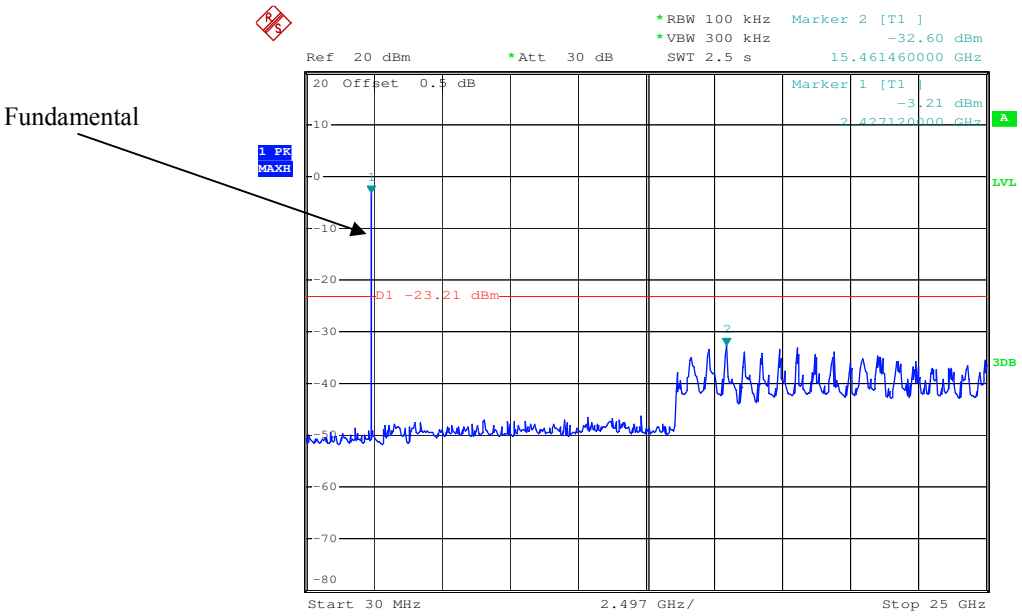
Date: 2.MAR.2016 14:41:52

Chain 1, 802.11b Middle Channel



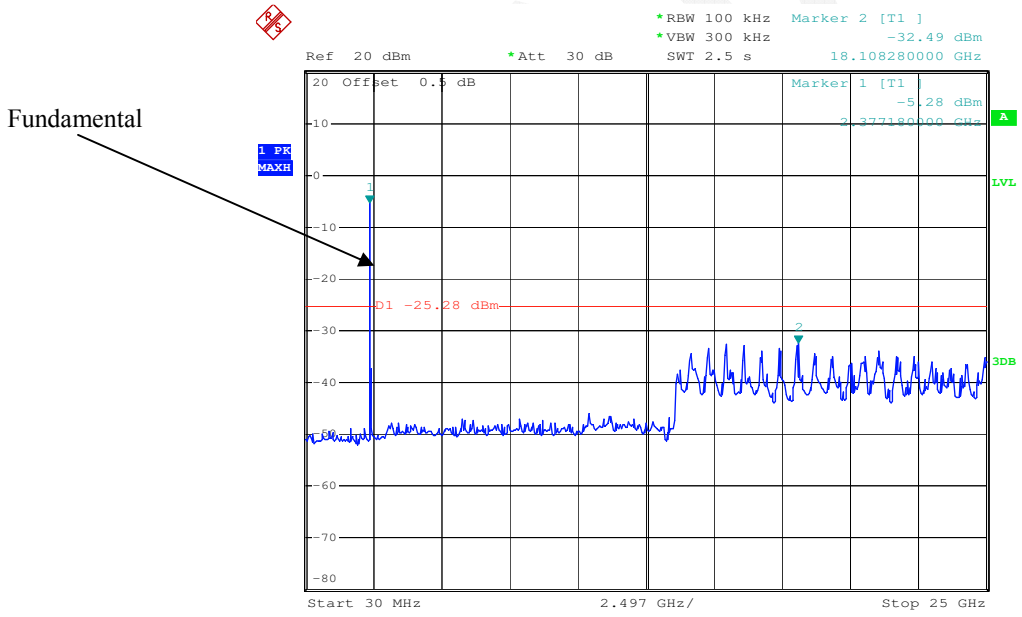
Date: 2.MAR.2016 14:38:51

Chain 1, 802.11b High Channel



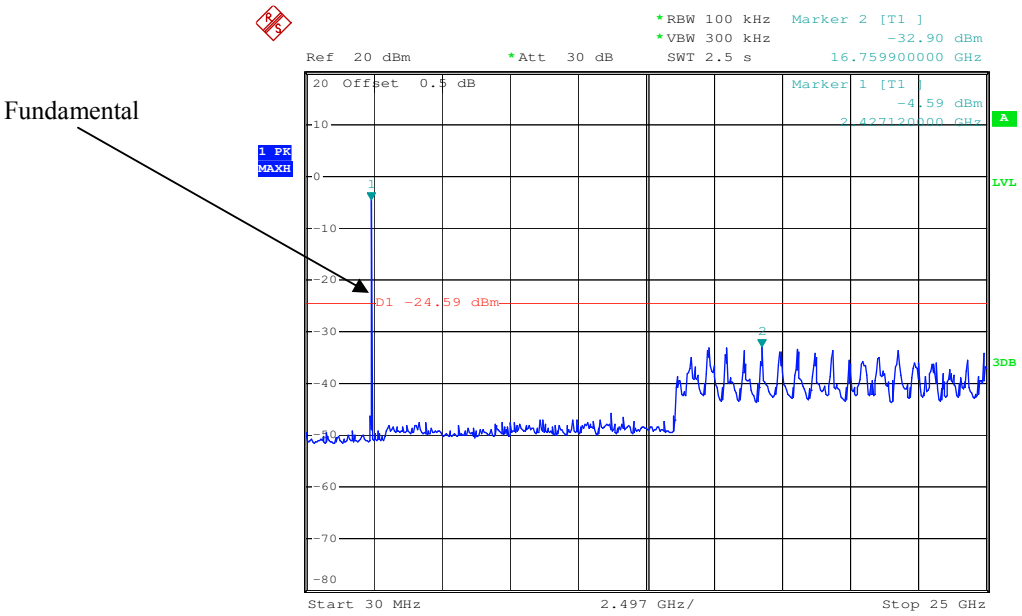
Date: 2.MAR.2016 14:34:45

Chain 1, 802.11g Low Channel



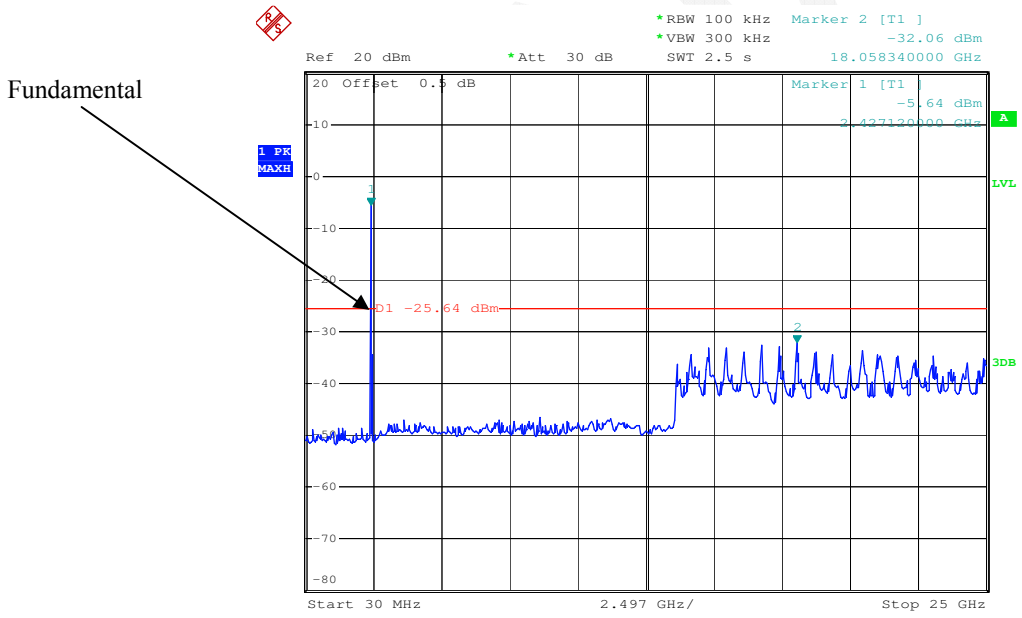
Date: 29.FEB.2016 11:33:09

Chain 1, 802.11g Middle Channel



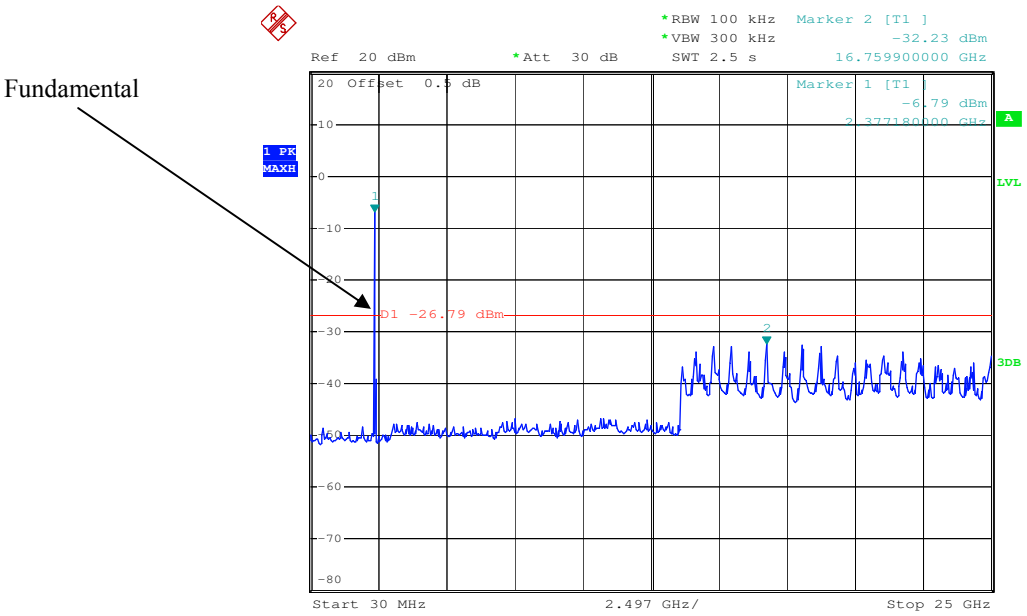
Date: 29.FEB.2016 11:36:51

Chain 1, 802.11g High Channel



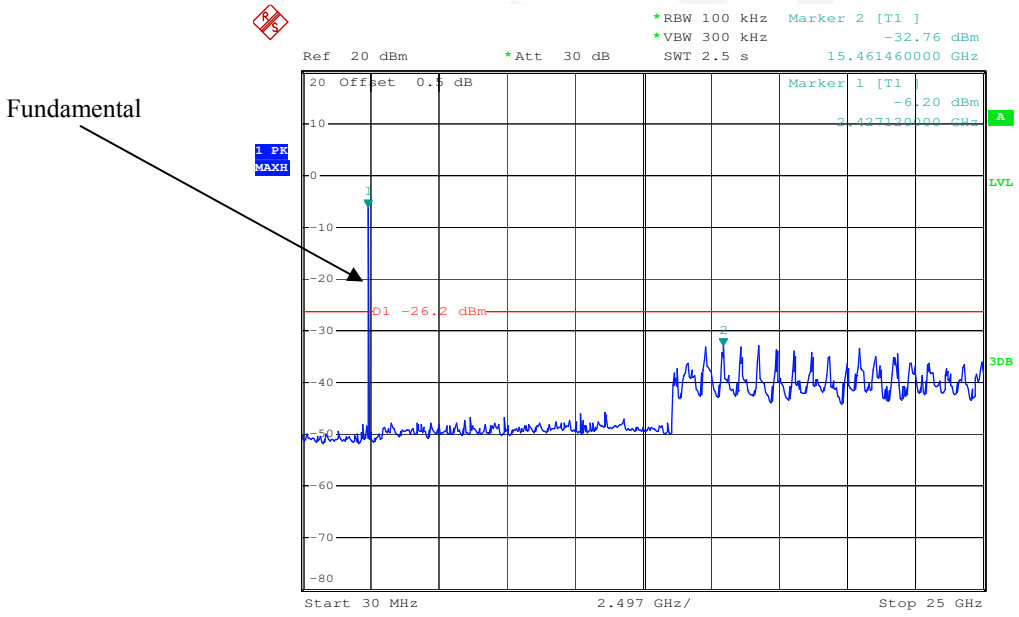
Date: 29.FEB.2016 11:40:14

Chain 1, 802.11n ht20 Low Channel



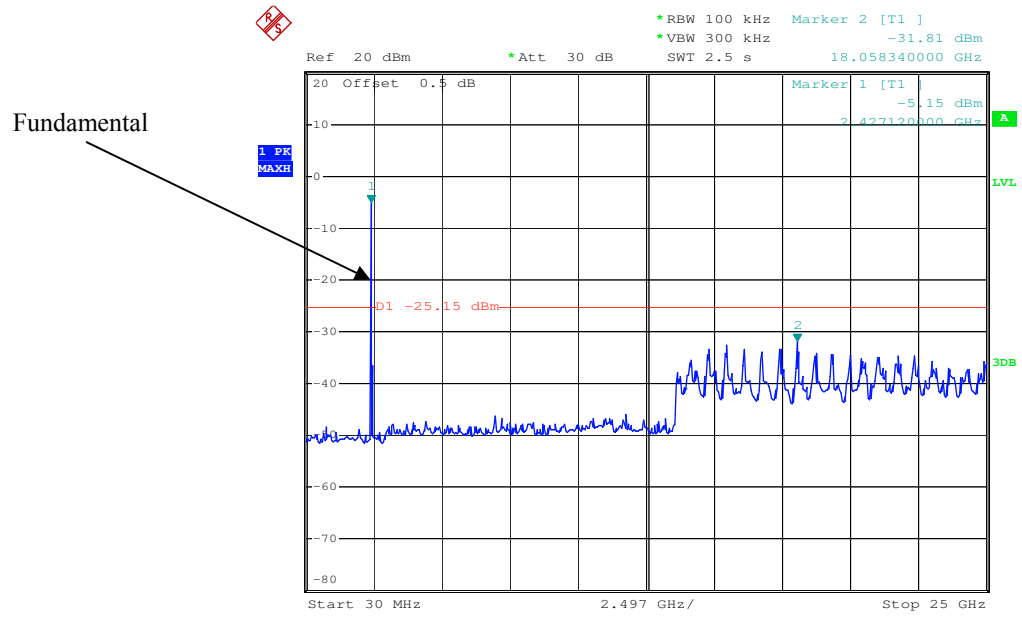
Date: 29.FEB.2016 11:50:20

Chain 1, 802.11n ht20 Middle Channel



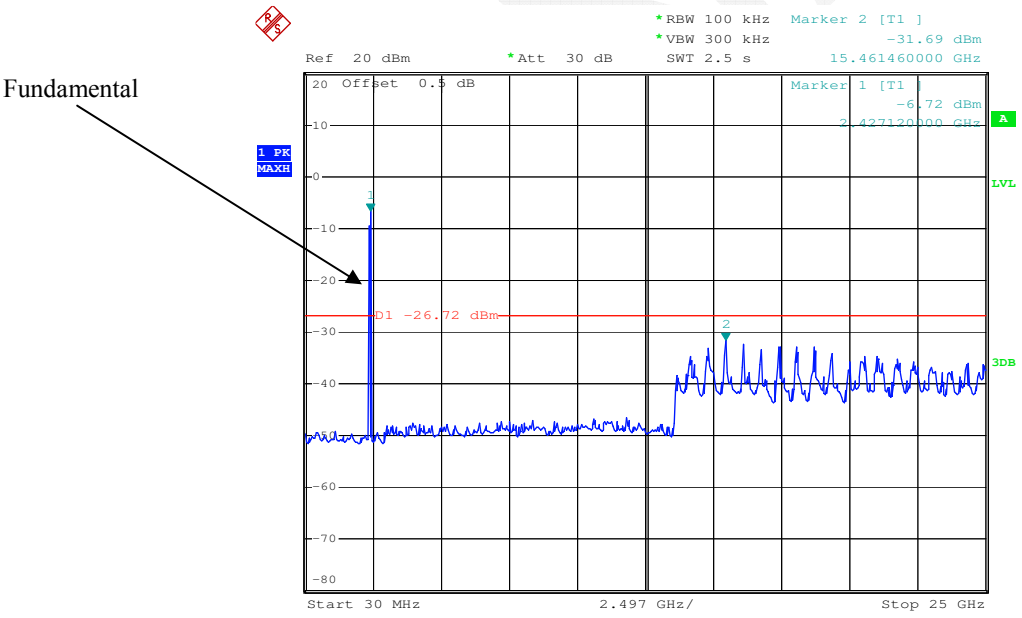
Date: 29.FEB.2016 11:57:06

Chain 1, 802.11n ht20 High Channel



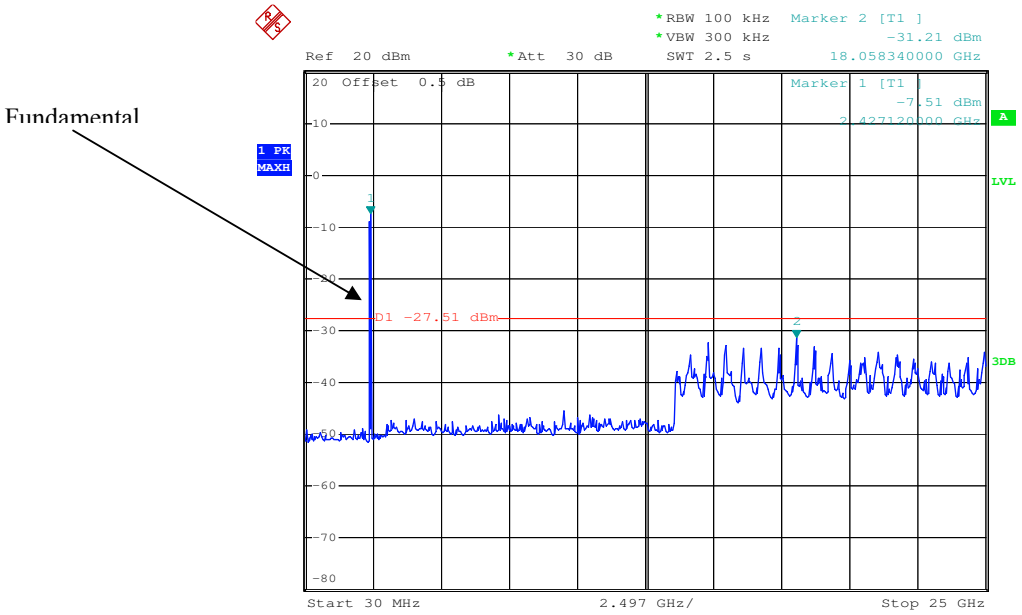
Date: 29.FEB.2016 13:05:42

Chain 1, 802.11n ht40 Low Channel



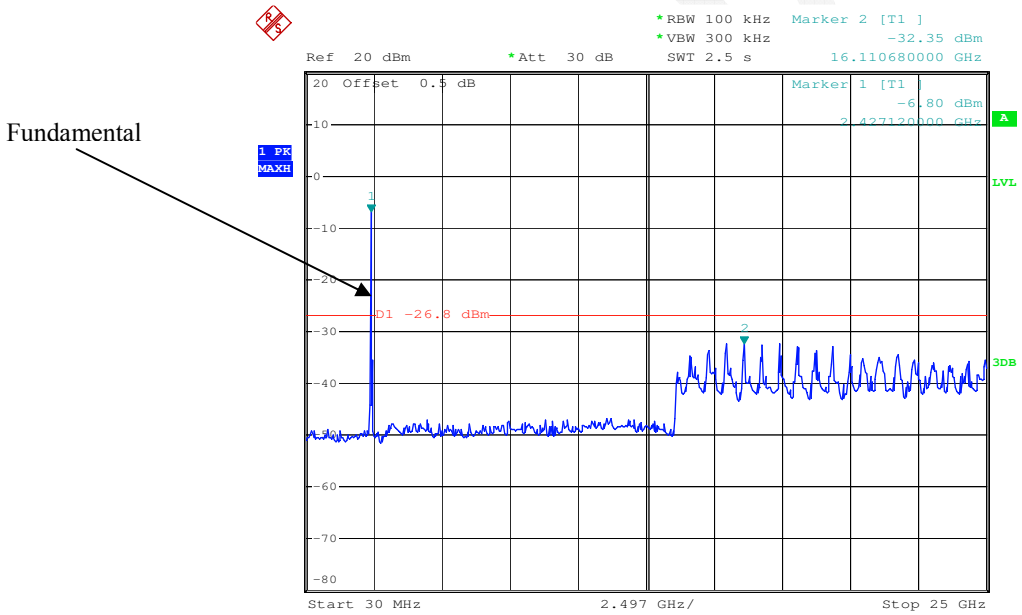
Date: 29.FEB.2016 13:09:59

Chain 1, 802.11n ht40 Middle Channel



Date: 29.FEB.2016 13:14:58

Chain 1, 802.11n ht40 High Channel



Date: 29.FEB.2016 13:18:31

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
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW)

FINAL

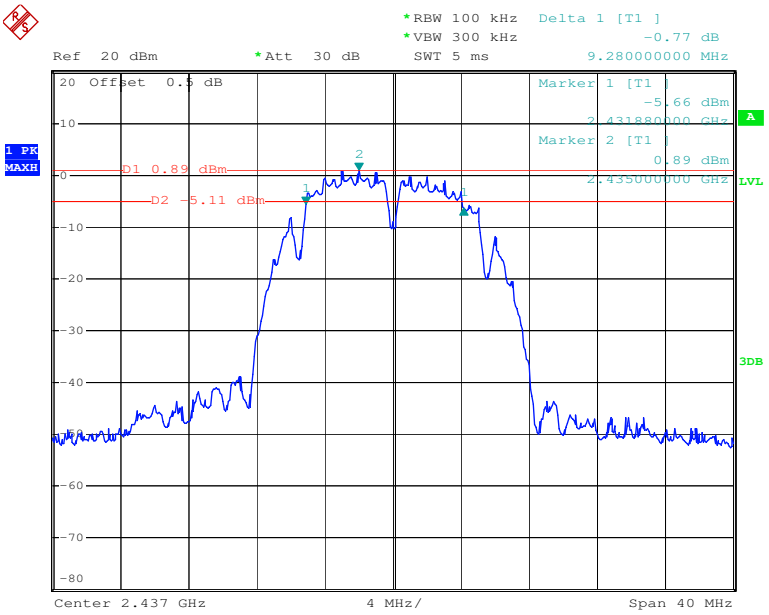
Test Mode: Transmitting

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

Test mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Limit (MHz)
			Chain 0	Chain 1	
802.11b	Low	2412	10.16	10.16	

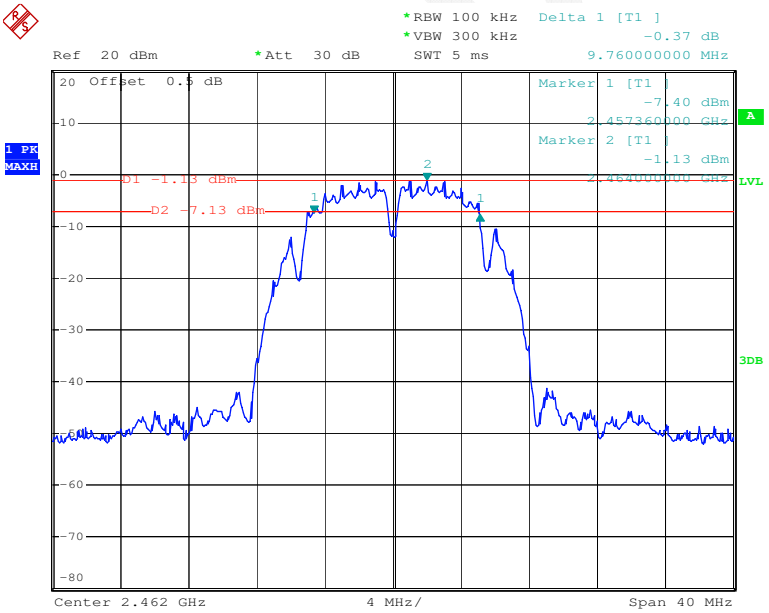
FINAL

Chain 0, 802.11b Middle Channel



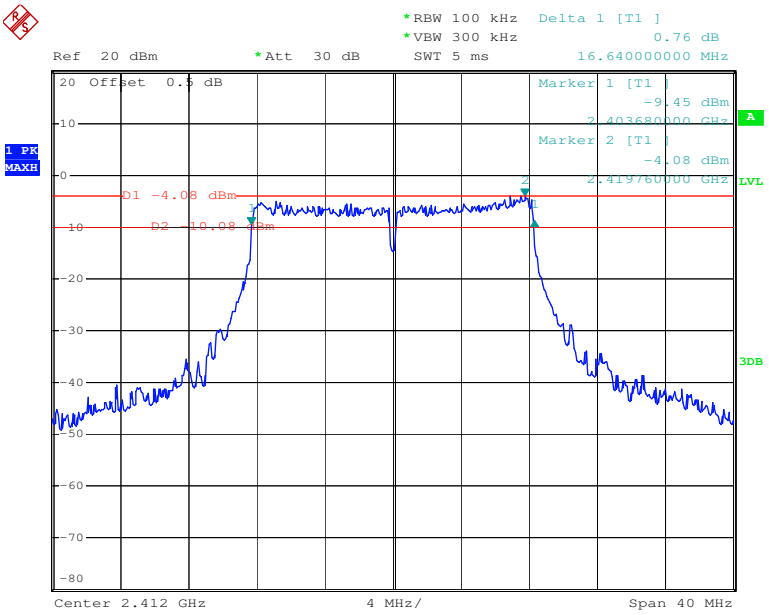
Date: 2.MAR.2016 14:25:06

Chain 0, 802.11b High Channel



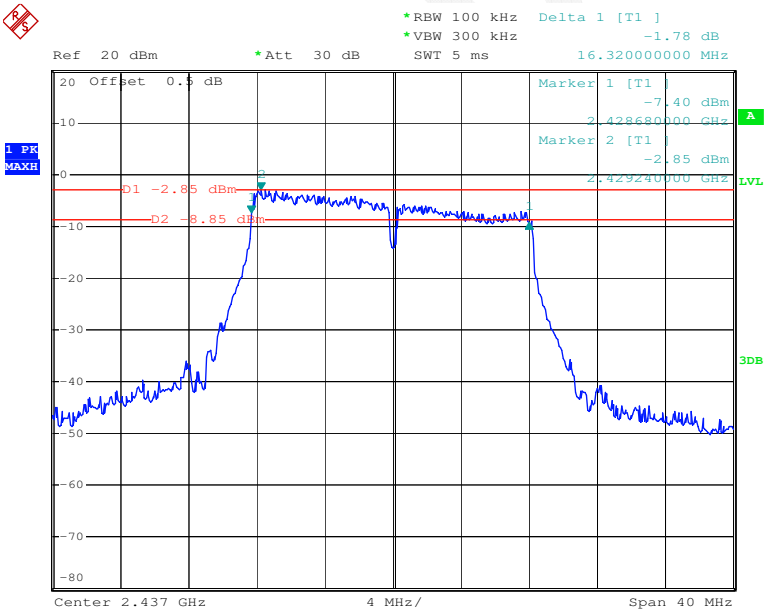
Date: 2.MAR.2016 14:29:13

Chain 0, 802.11g Low Channel



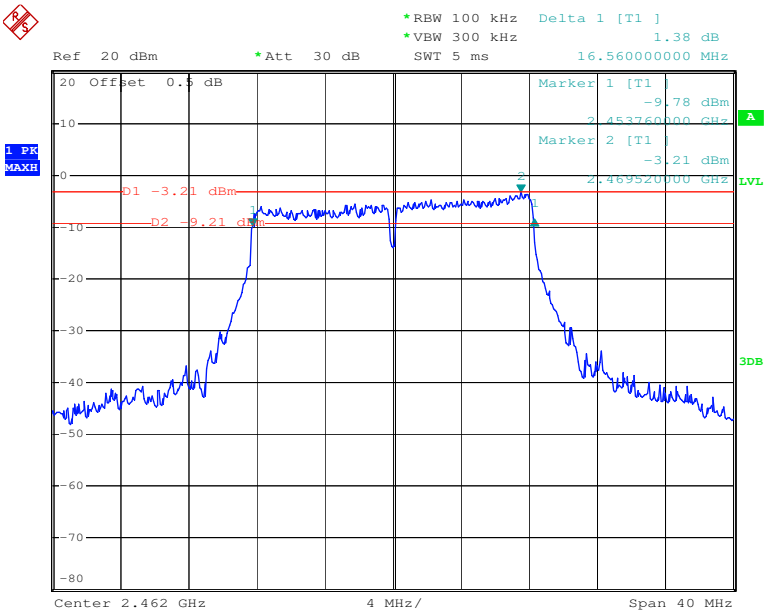
Date: 29.FEB.2016 13:37:08

Chain 0, 802.11g Middle Channel



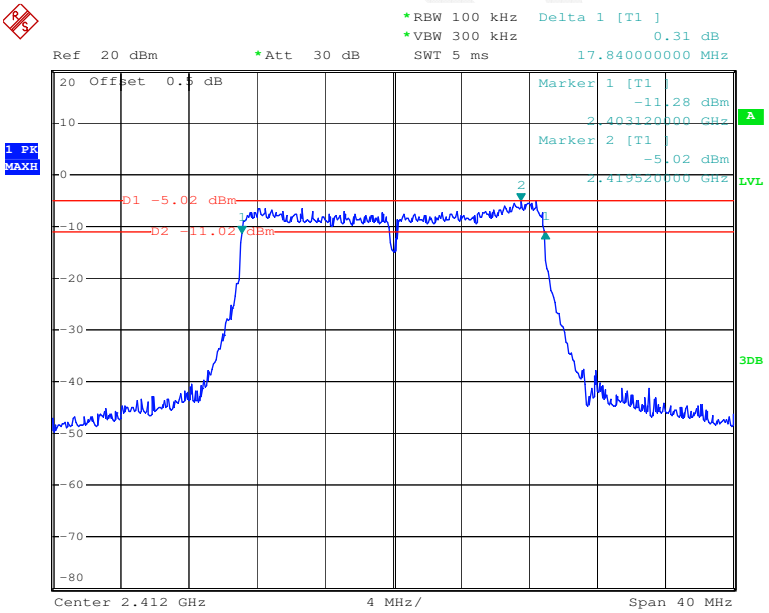
Date: 29.FEB.2016 13:45:27

Chain 0, 802.11g High Channel



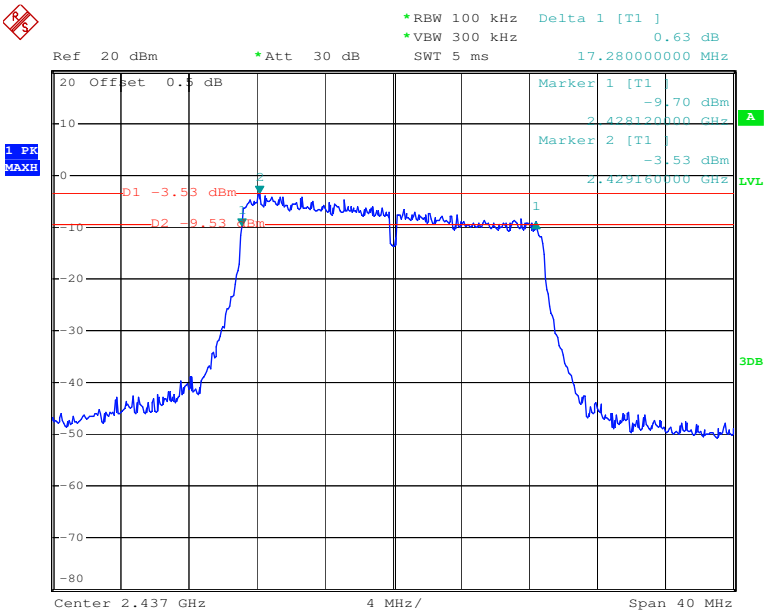
Date: 29.FEB.2016 13:48:30

Chain 0, 802.11n ht20 Low Channel



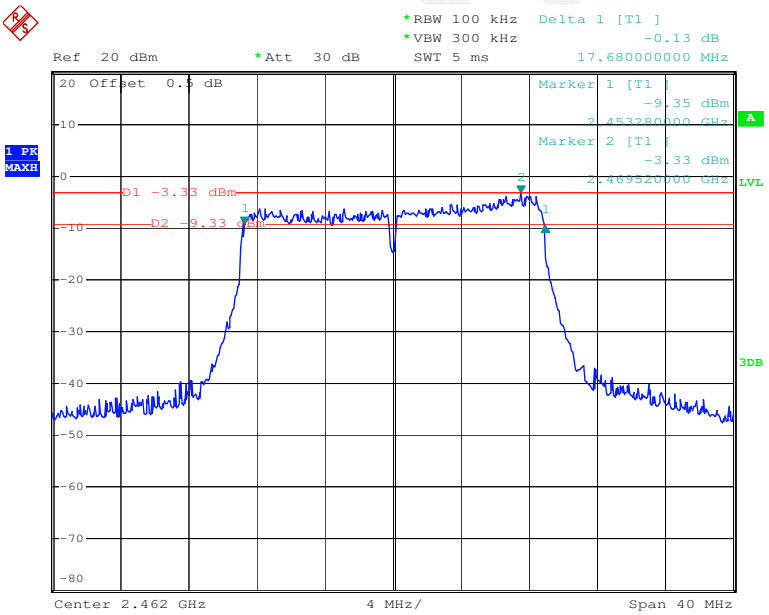
Date: 29.FEB.2016 13:52:50

Chain 0, 802.11n ht20 Middle Channel



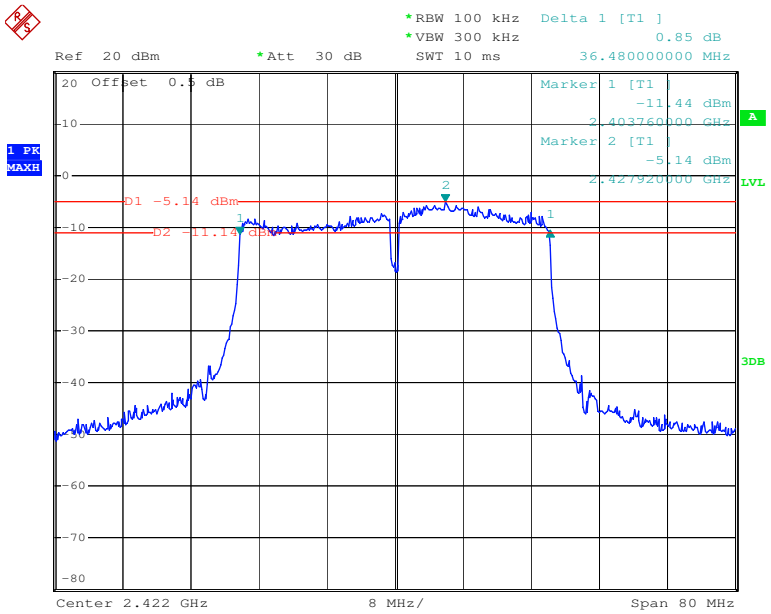
Date: 29.FEB.2016 13:59:11

Chain 0, 802.11n ht20 High Channel



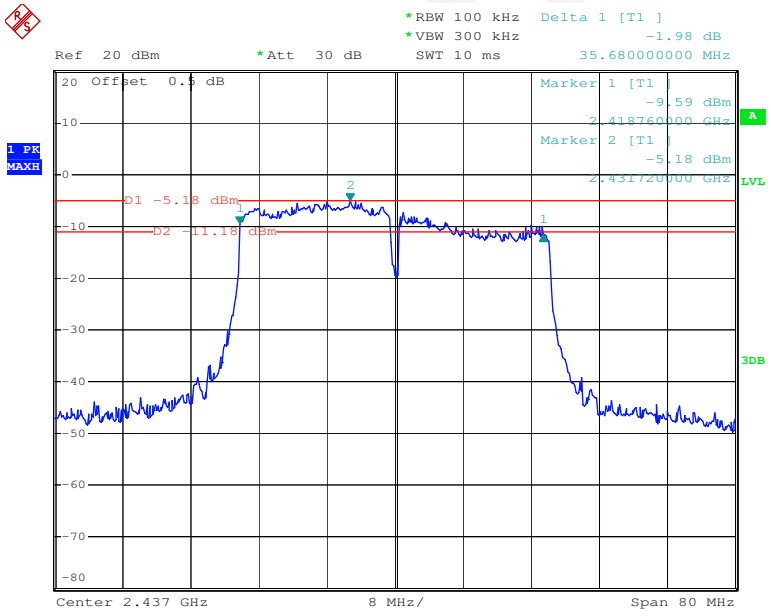
Date: 29.FEB.2016 14:05:22

Chain 0, 802.11n ht40 Low Channel



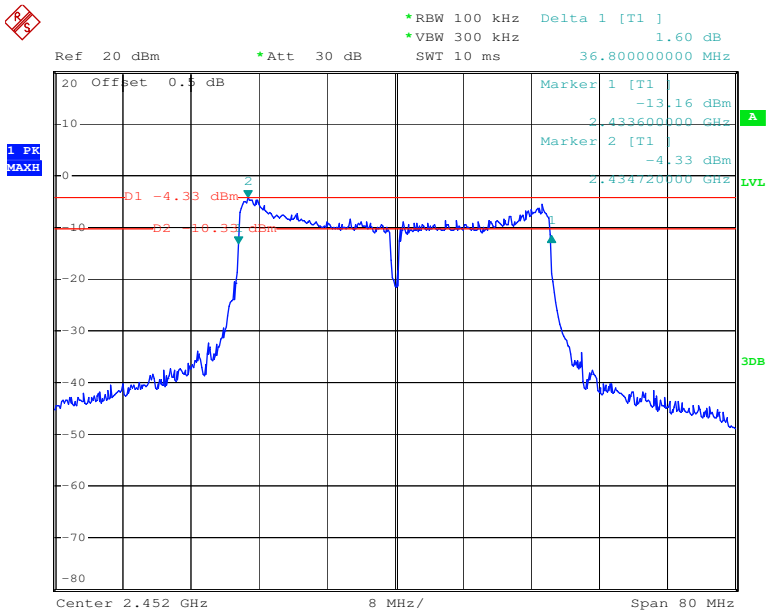
Date: 29.FEB.2016 14:08:37

Chain 0, 802.11n ht40 Middle Channel



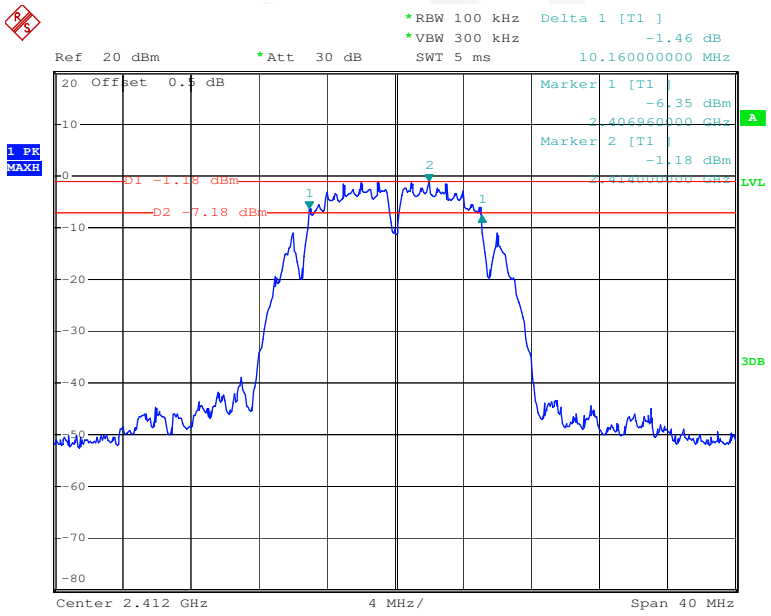
Date: 29.FEB.2016 14:11:58

Chain 0, 802.11n ht40 High Channel



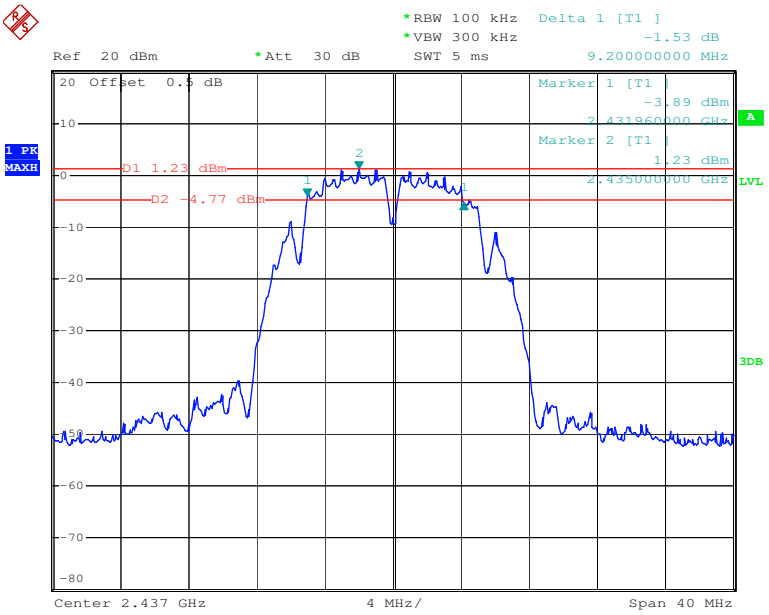
Date: 29.FEB.2016 14:15:06

Chain 1, 802.11b Low Channel



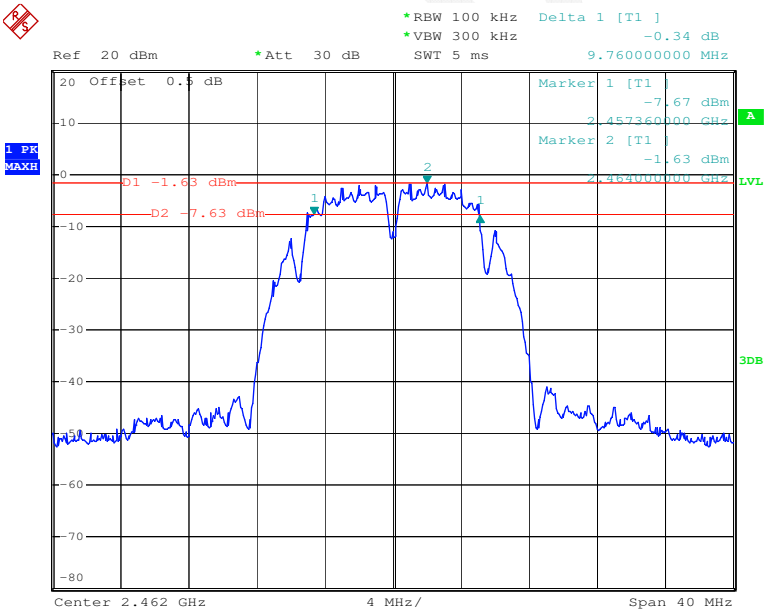
Date: 2.MAR.2016 14:40:16

Chain 1, 802.11b Middle Channel



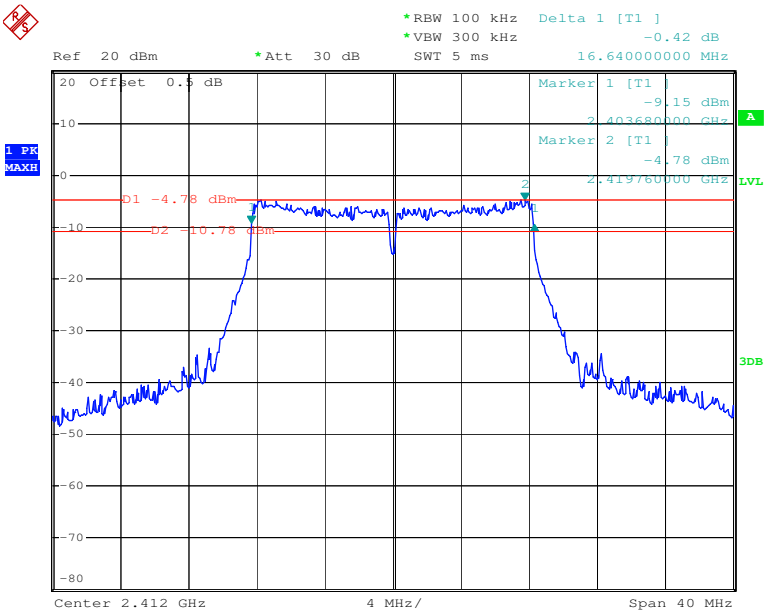
Date: 2.MAR.2016 14:37:14

Chain 1, 802.11b High Channel



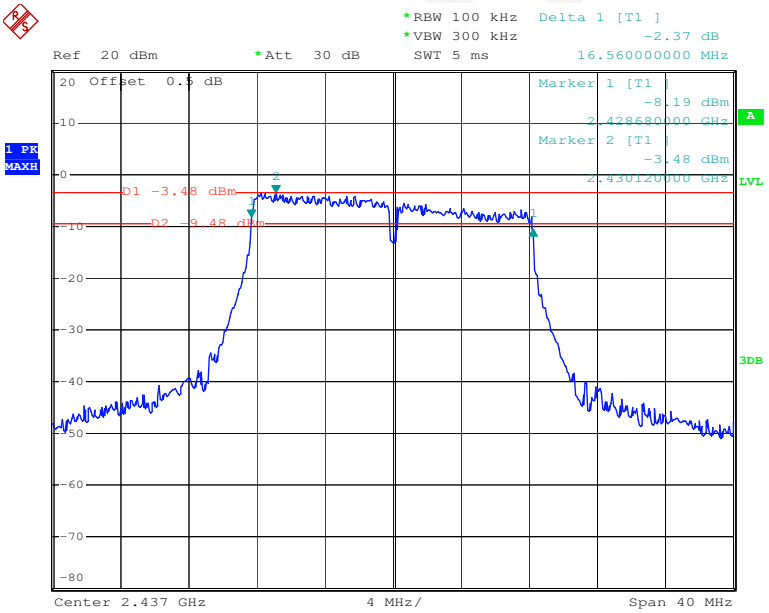
Date: 2.MAR.2016 14:33:05

Chain 1, 802.11g Low Channel



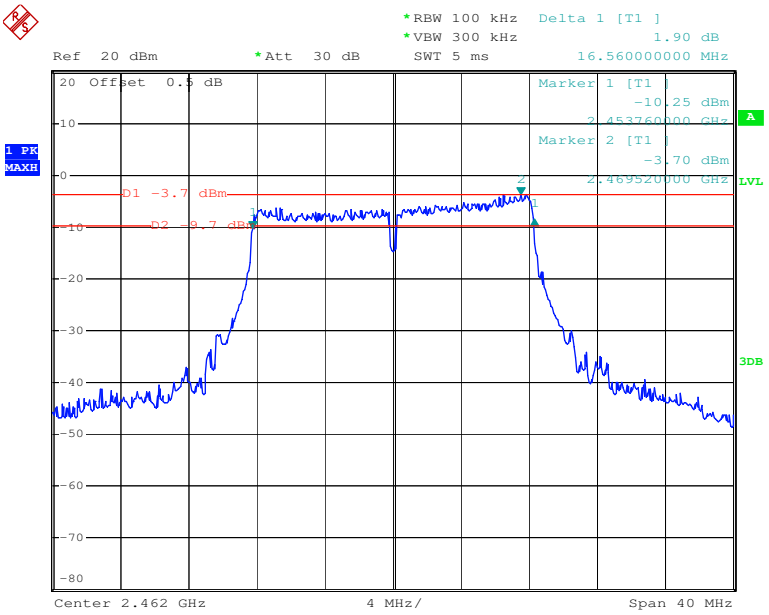
Date: 29.FEB.2016 11:31:29

Chain 1, 802.11g Middle Channel



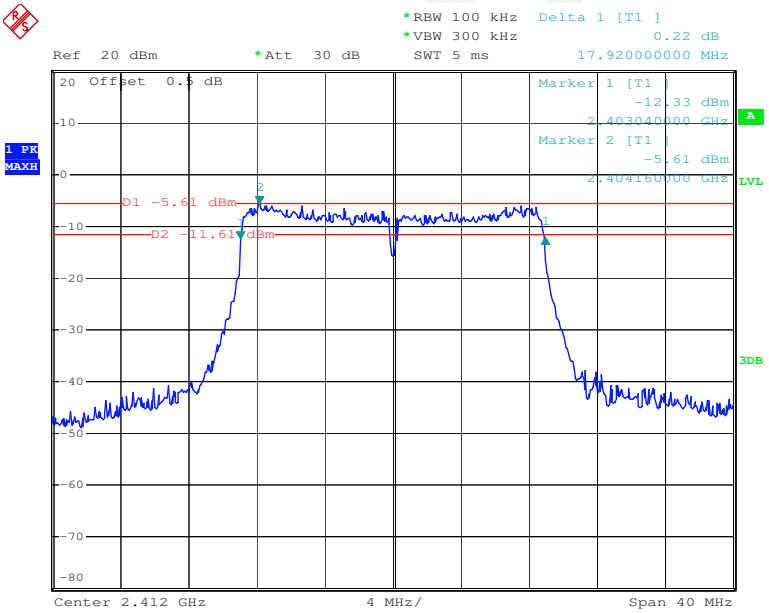
Date: 29.FEB.2016 11:35:10

Chain 1, 802.11g High Channel



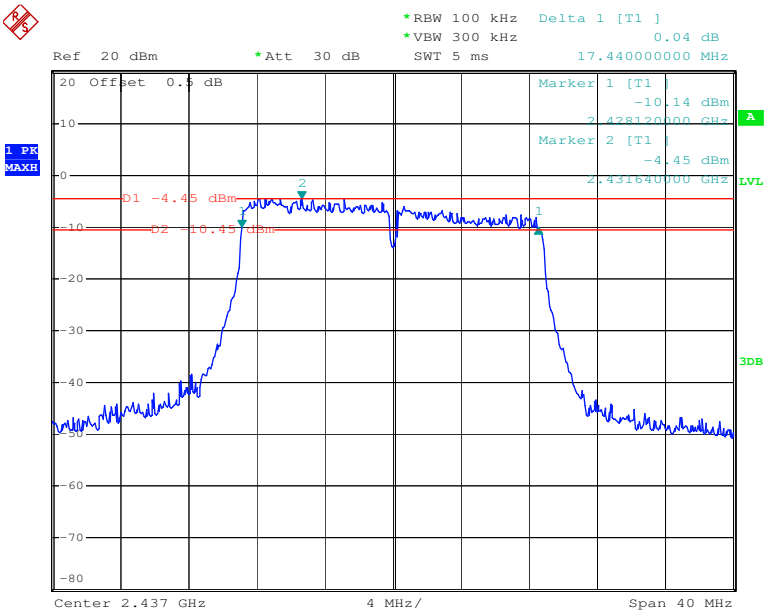
Date: 29.FEB.2016 11:38:26

Chain 1, 802.11n ht20 Low Channel



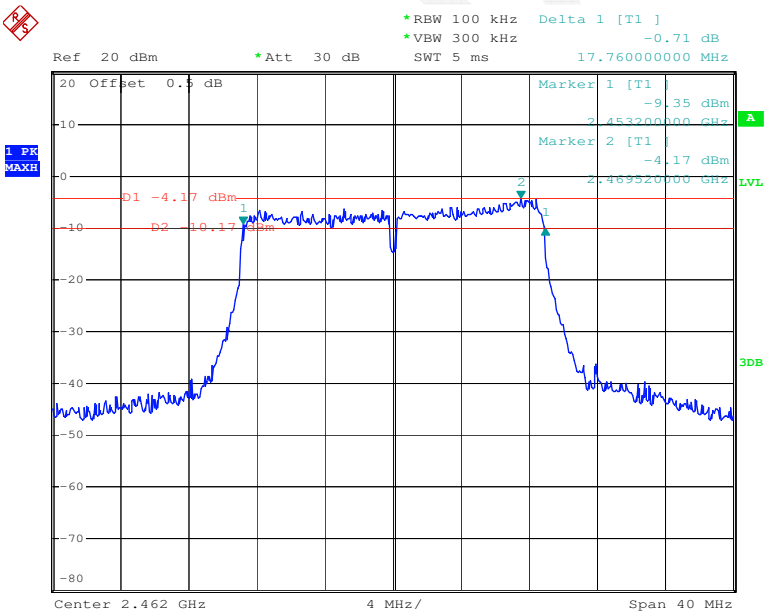
Date: 29.FEB.2016 11:48:41

Chain 1, 802.11n ht20 Middle Channel



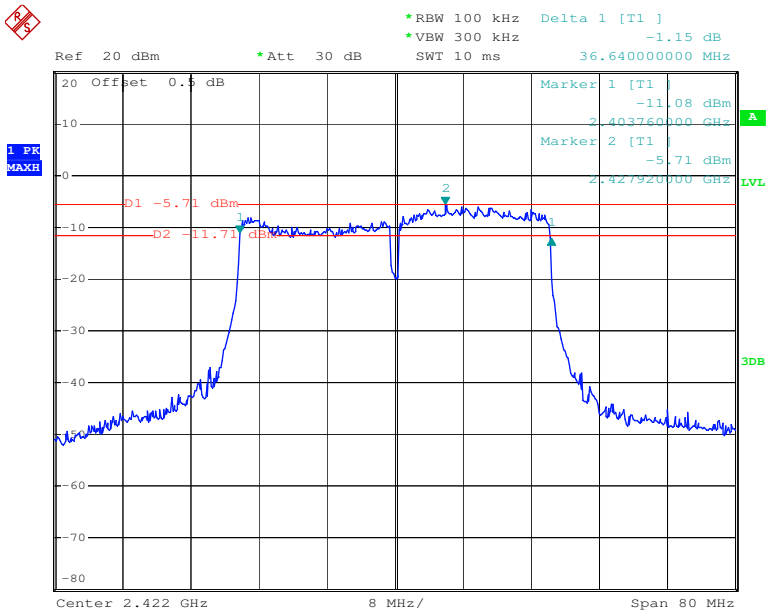
Date: 29.FEB.2016 11:55:26

Chain 1, 802.11n ht20 High Channel



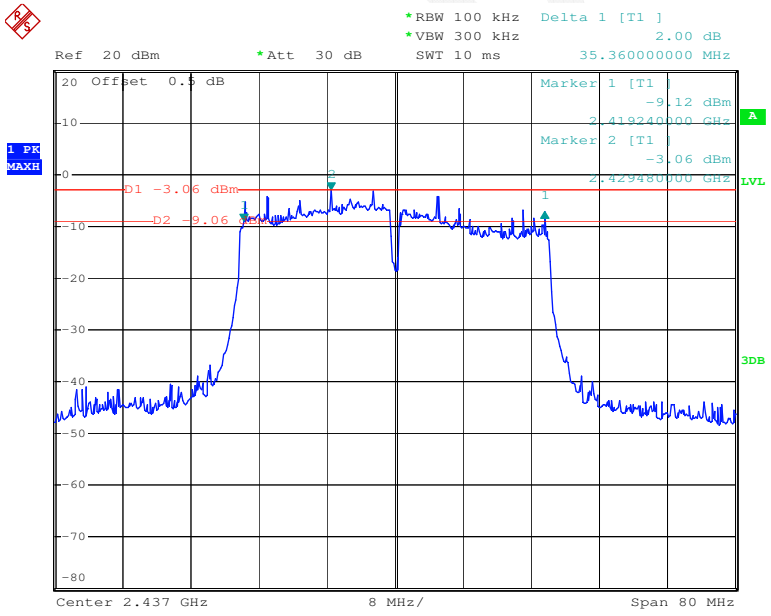
Date: 29.FEB.2016 13:04:00

Chain 1, 802.11n ht40 Low Channel



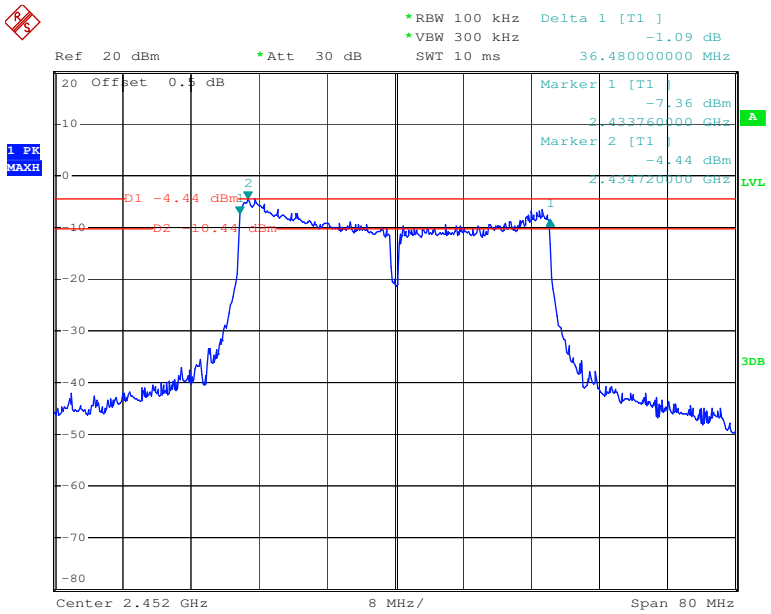
Date: 29.FEB.2016 13:08:01

Chain 1, 802.11n ht40 Middle Channel



Date: 29.FEB.2016 13:12:59

Chain 1, 802.11n ht40 High Channel



Date: 29.FEB.2016 13:16:29

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

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	2015-11-03	2016-11-03
Agilent	Wideband Power Sensor	N1921A	MY54170013	2015-11-03	2016-11-03
Agilent	P-Series Power Meter	N1912A	MY5000448	2015-11-03	2016-11-03
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** 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 Data

Environmental Conditions

Temperature:	21.6°C
Relative Humidity:	44 %
ATM Pressure:	101.9kPa

** The testing was performed by Allen Qiao on 2016-03-01.*

Test Mode: Transmitting

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

Test mode	Channel	Frequency	Max Peak Conducted Output Power (dBm)		Total	Limit
		(MHz)	Chain 0	Chain 1	(dBm)	(dBm)
802.11b	Low	2412	13.19	13.46	16.34	30
	Middle	2437	14.99	15.41	18.22	30
	High	2462	13.42	12.87	16.16	30
802.11g	Low	2412	15.94	15.81	18.89	30
	Middle	2437	16.36	16.36	19.37	30
	High	2462	16.18	15.62	18.92	30
802.11n20	Low	2412	14.75	14.77	17.77	30
	Middle	2437	15.48	15.69	18.60	30
	High	2462	15.78	15.23	18.52	30
802.11n40	Low	2422	17.69	17.30	20.51	30
	Middle	2437	17.30	17.08	20.20	30
	High	2452	17.33	16.91	20.14	30

Test mode	Channel	Frequency	Max Conducted Average Output Power (dBm)		Total	Limit
		(MHz)	Chain 0	Chain 1	(dBm)	(dBm)
802.11b	Low	2412	12.19	12.50	15.36	30
	Middle	2437	14.04	14.47	17.27	30
	High	2462	12.46	11.93	15.21	30
802.11g	Low	2412	12.54	12.35	15.46	30
	Middle	2437	12.93	12.9	15.93	30
	High	2462	12.81	12.22	15.54	30
802.11n20	Low	2412	11.18	11.18	14.19	30
	Middle	2437	11.93	12.14	15.05	30
	High	2462	12.26	11.73	15.01	30
802.11n40	Low	2422	11.79	11.43	14.62	30
	Middle	2437	11.39	11.19	14.30	30
	High	2452	11.52	11.11	14.33	30

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	FSEM	DE31388	2015-05-09	2016-05-09
N/A	Coaxial Cable	0.1m	N/A	2015-05-06	2016-05-06
E-Microwave	DC Blocking	EMDCB-00036	0E01201047	2015-05-06	2016-05-06

*** 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 Data

Environmental Conditions

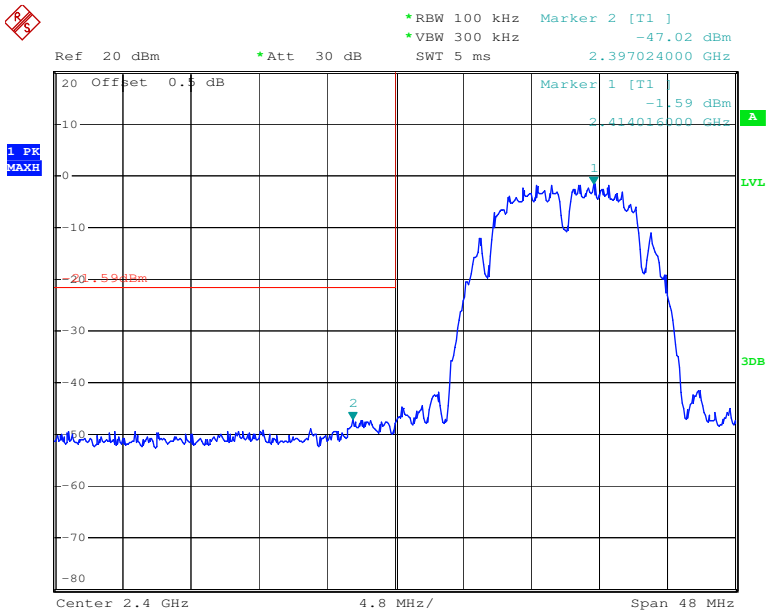
Temperature:	20.2 ~ 21.6°C
Relative Humidity:	42~44 %
ATM Pressure:	101.9kPa

** The testing was performed by Allen Qiao from 2016-02-29 to 2016-03-02.*

Test mode: Transmitting

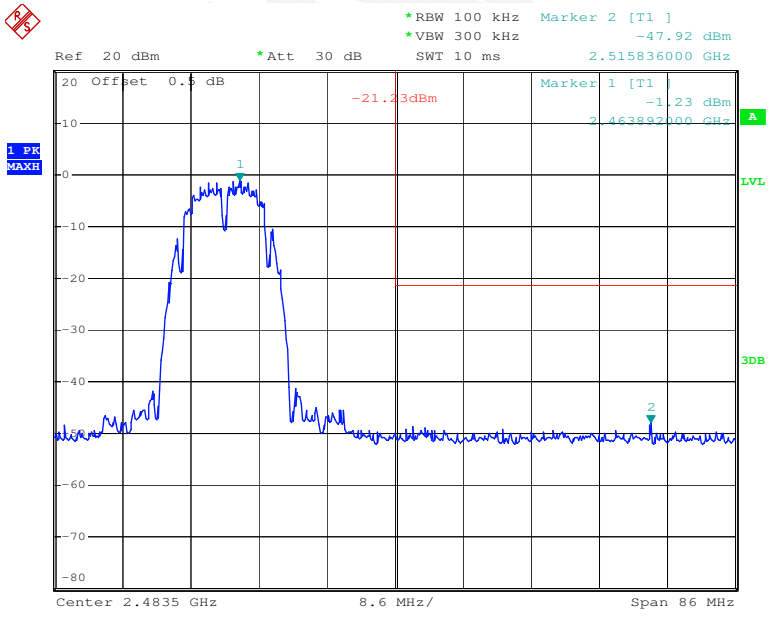
Test Result: Compliant. Please refer to following plots.

Chain 0, 802.11b: Band Edge, Left Side



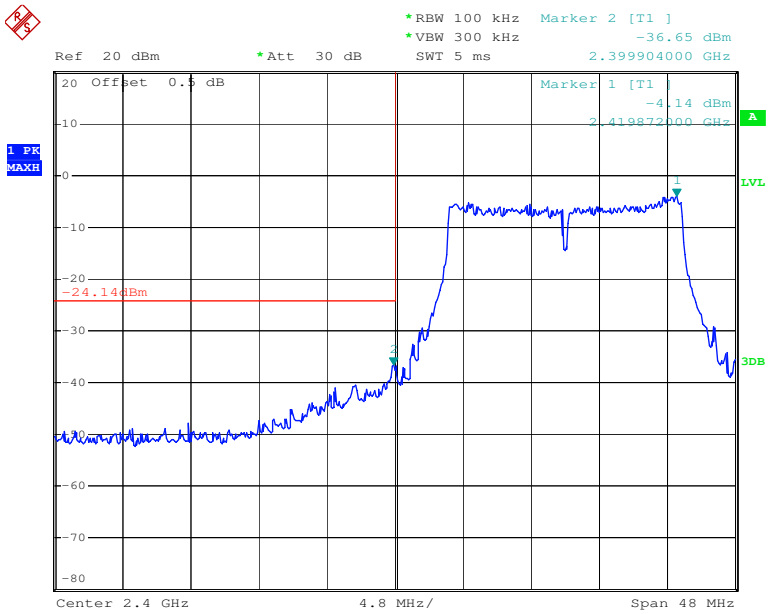
Date: 2.MAR.2016 14:23:50

Chain 0, 802.11b: Band Edge, Right Side



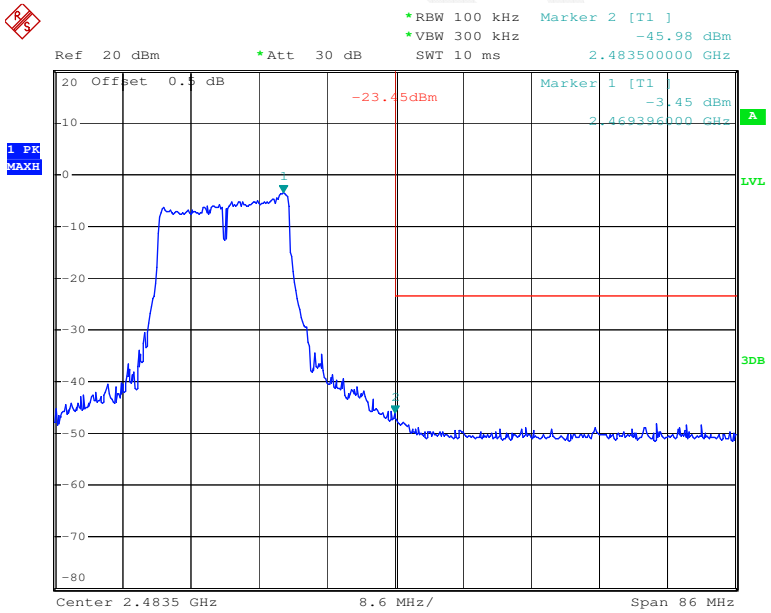
Date: 2.MAR.2016 14:31:10

Chain 0, 802.11g: Band Edge, Left Side



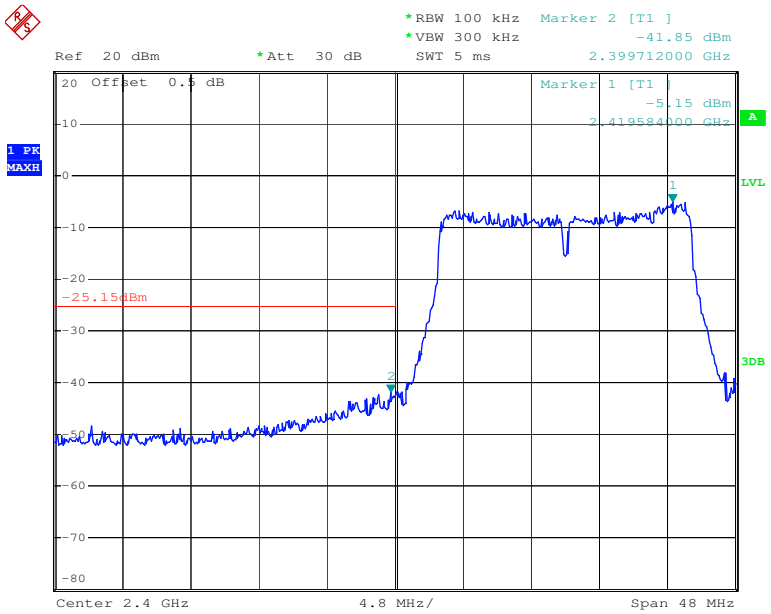
Date: 29.FEB.2016 13:39:16

Chain 0, 802.11g: Band Edge, Right Side



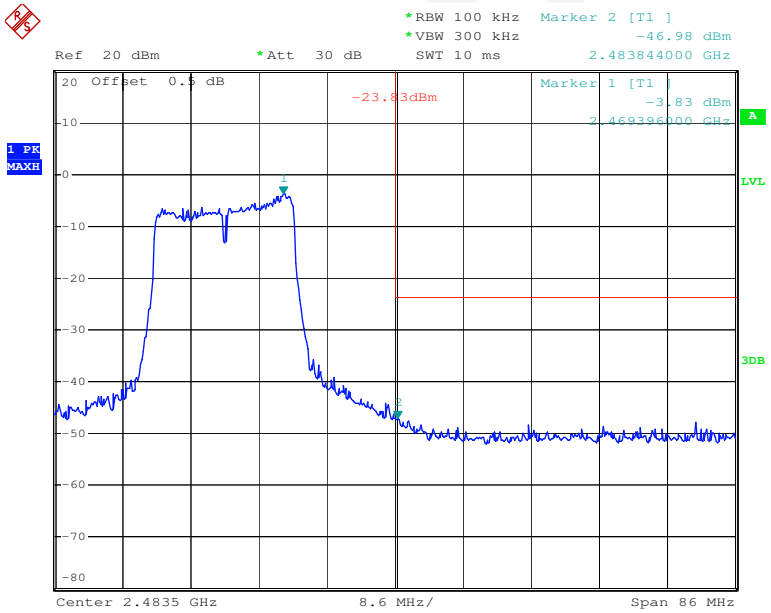
Date: 29.FEB.2016 13:50:48

Chain 0, 802.11n ht20 Band Edge, Left Side



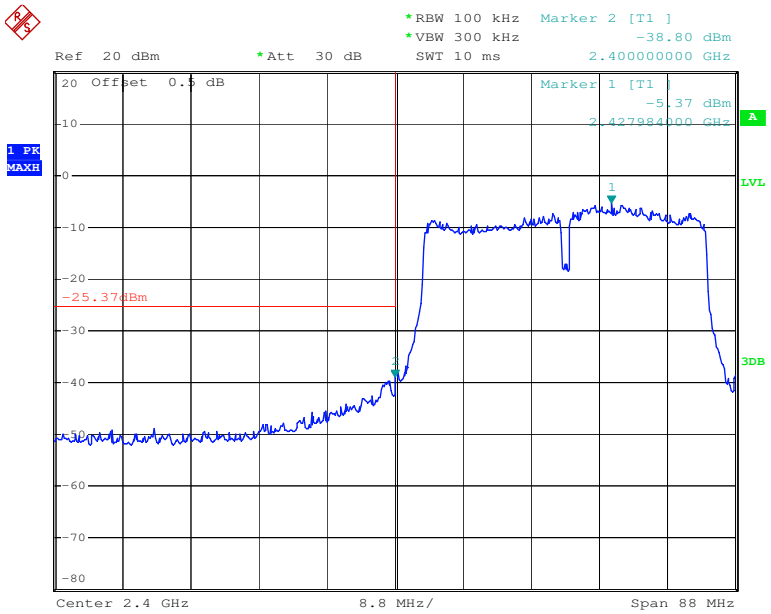
Date: 29.FEB.2016 13:54:59

Chain 0, 802.11n ht20 Band Edge, Right Side



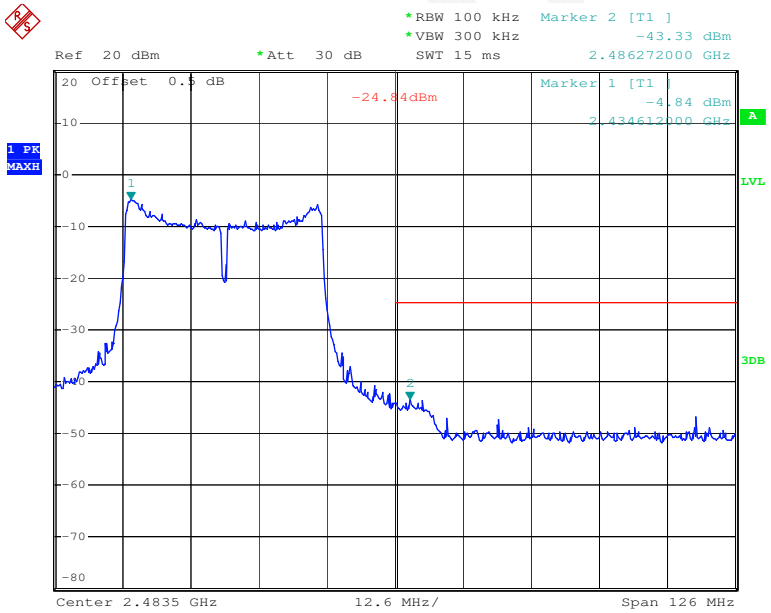
Date: 29.FEB.2016 14:07:32

Chain 0, 802.11n ht40 Band Edge, Left Side



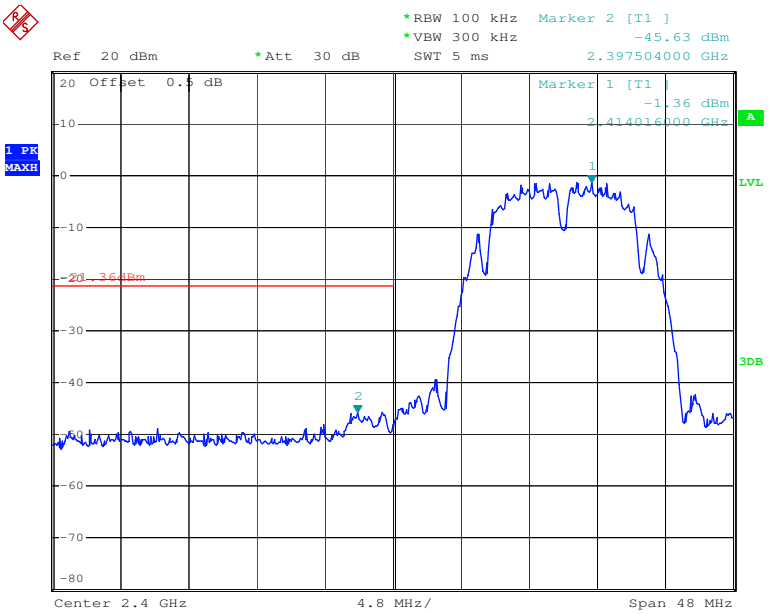
Date: 29.FEB.2016 14:10:53

Chain 0, 802.11n ht40 Band Edge, Right Side



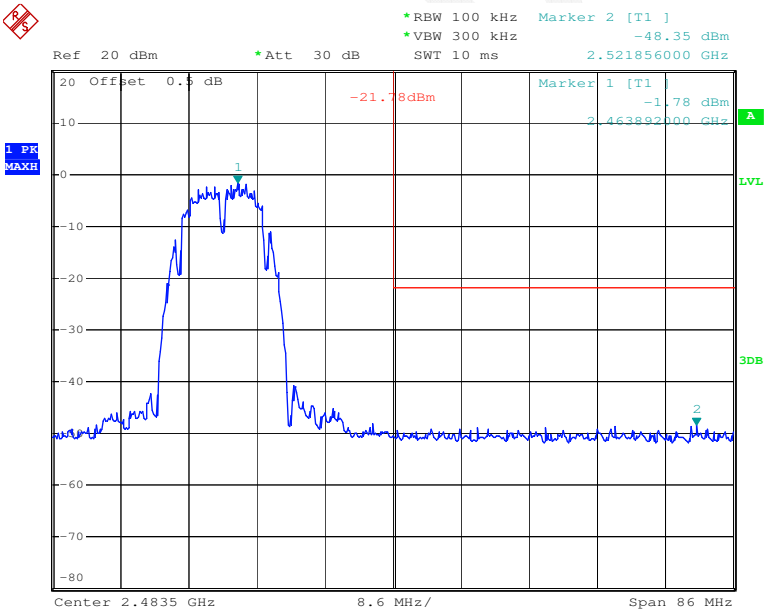
Date: 29.FEB.2016 14:17:26

Chain 1, 802.11b: Band Edge, Left Side



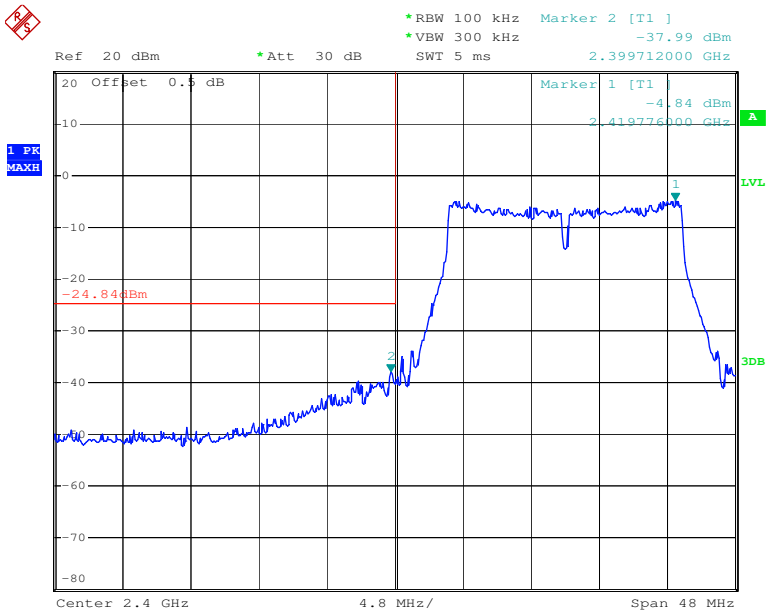
Date: 2.MAR.2016 14:42:10

Chain 1, 802.11b: Band Edge, Right Side



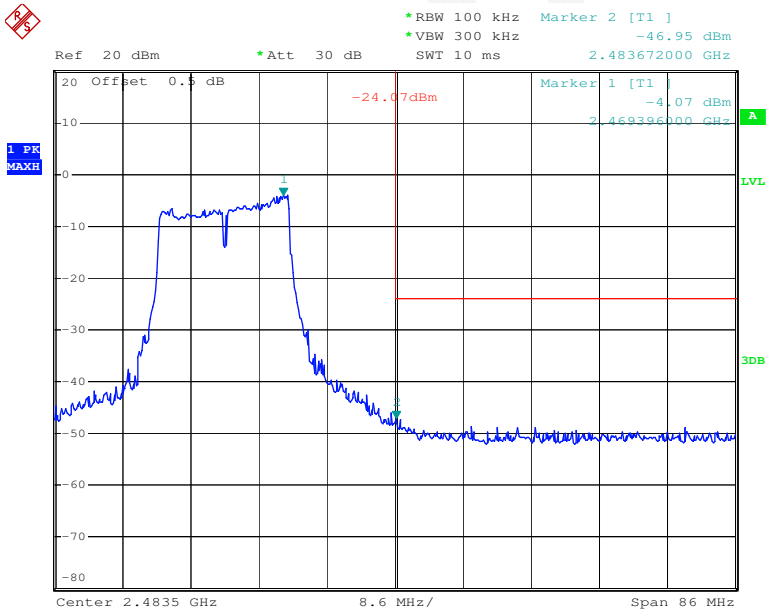
Date: 2.MAR.2016 14:35:09

Chain 1, 802.11g: Band Edge, Left Side



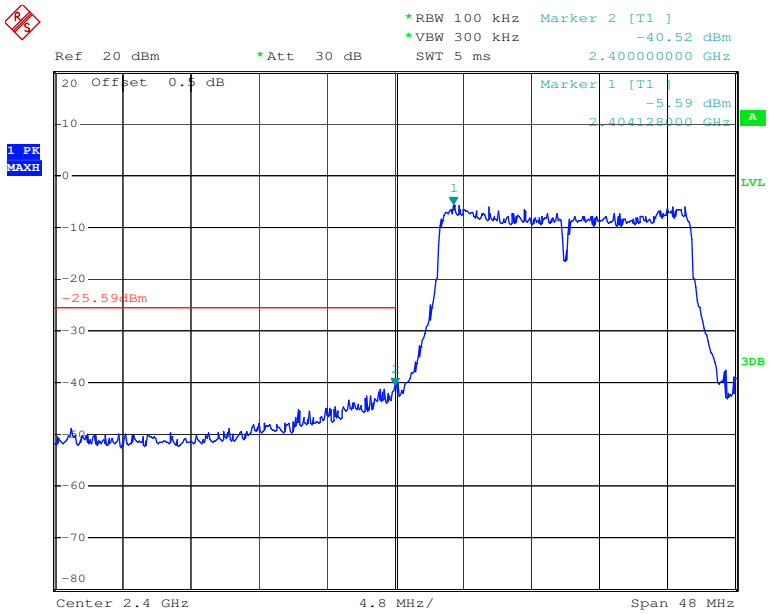
Date: 29.FEB.2016 11:33:32

Chain 1, 802.11g: Band Edge, Right Side



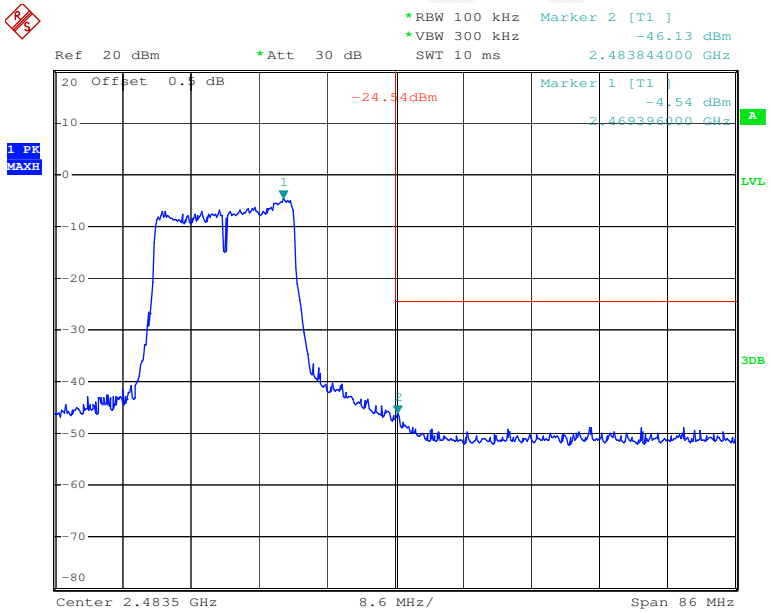
Date: 29.FEB.2016 11:40:34

Chain 1, 802.11n ht20 Band Edge, Left Side



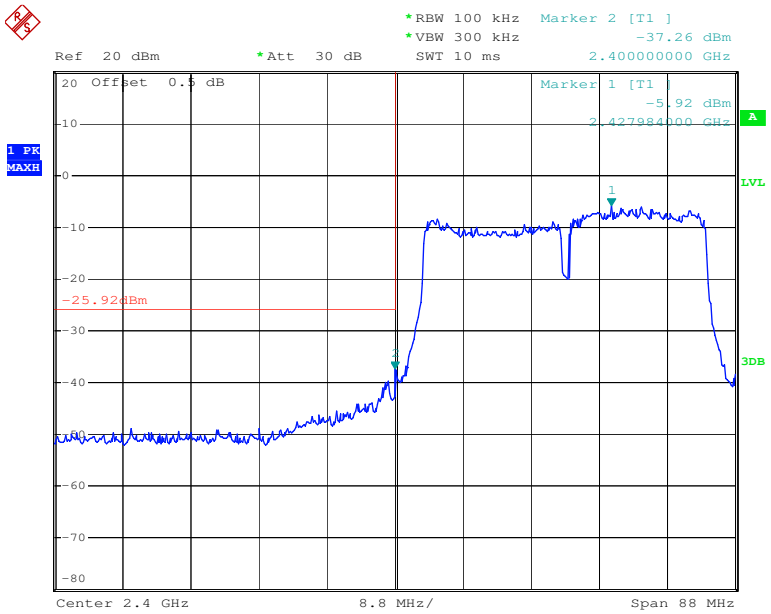
Date: 29.FEB.2016 11:50:39

Chain 1, 802.11n ht20 Band Edge, Right Side



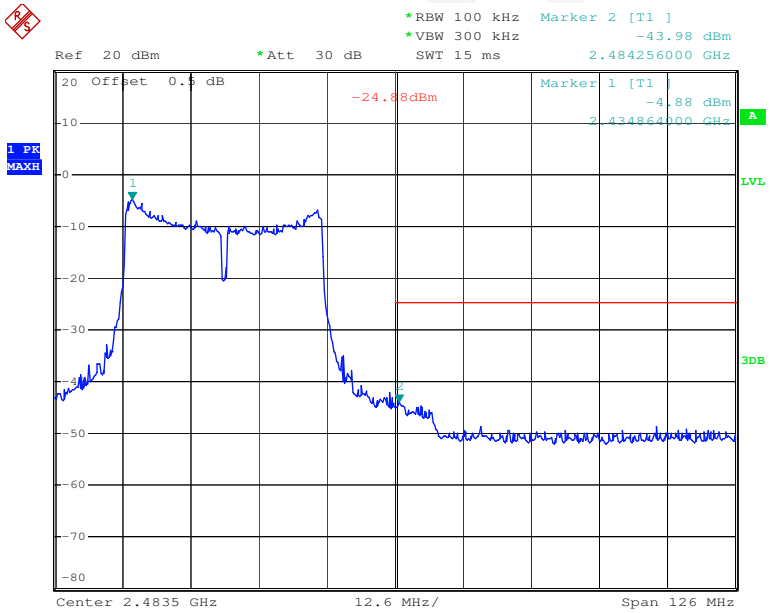
Date: 29.FEB.2016 13:06:00

Chain 1, 802.11n ht40 Band Edge, Left Side



Date: 29.FEB.2016 13:10:17

Chain 1, 802.11n ht40 Band Edge, Right Side



Date: 29.FEB.2016 13:18:50

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

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

FINAL

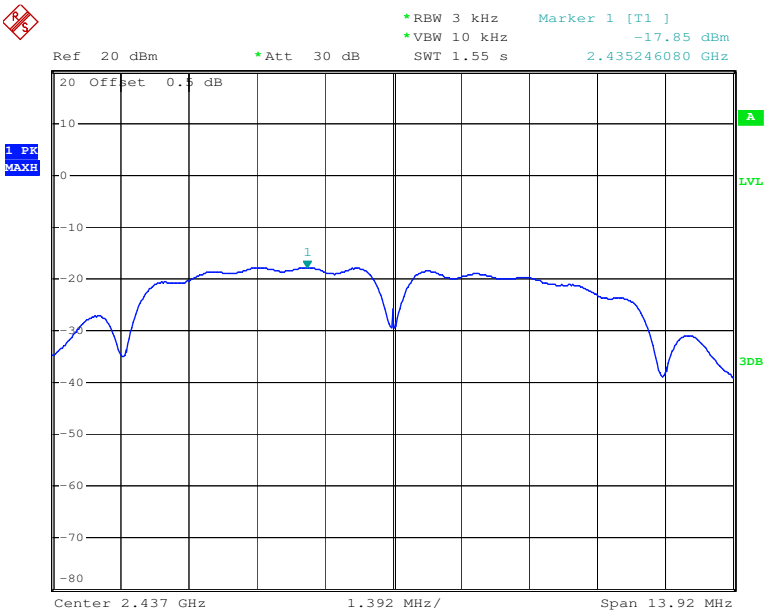
Test Mode: Transmitting

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

Test mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)		Total (dBm/3kHz)	Limit (dBm/3kHz)
			Chain 0	Chain 1		
802.11b	Low	2412	-19.97	-19.71	-16.83	

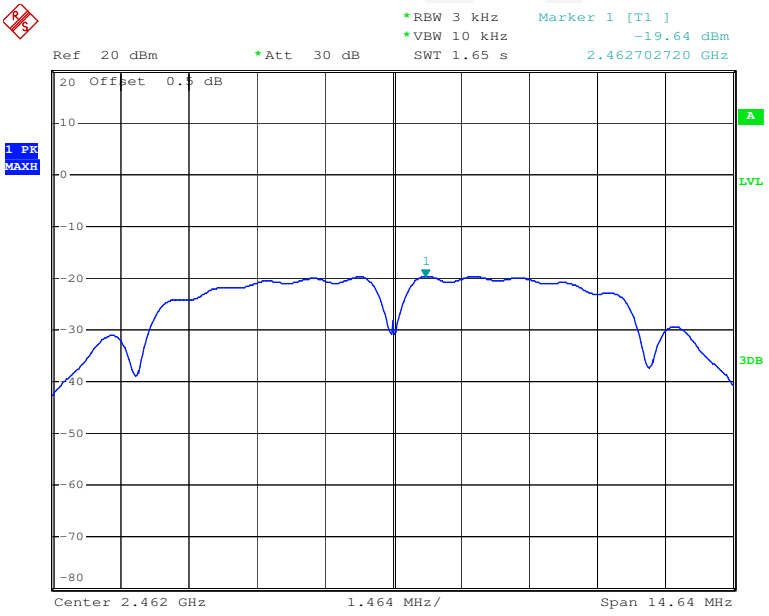
FINAL

Power Spectral Density, 802.11b Middle Channel



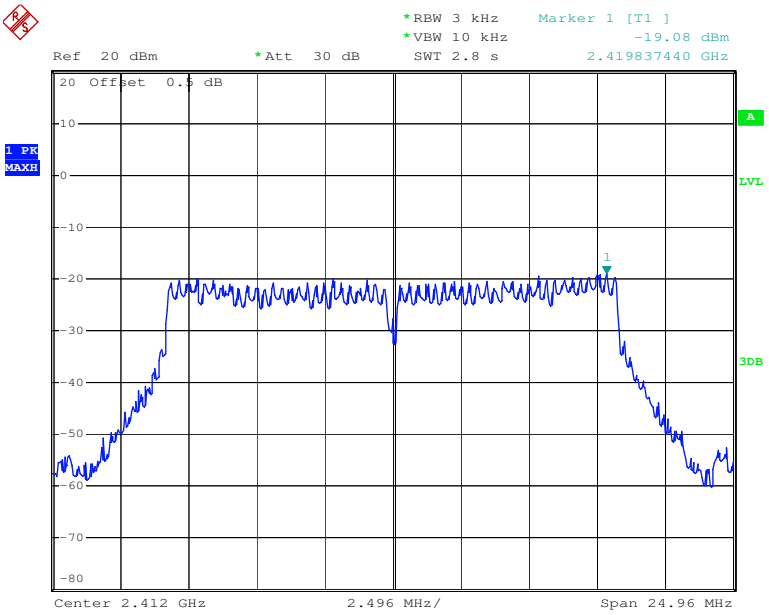
Date: 2.MAR.2016 14:26:23

Power Spectral Density, 802.11b High Channel



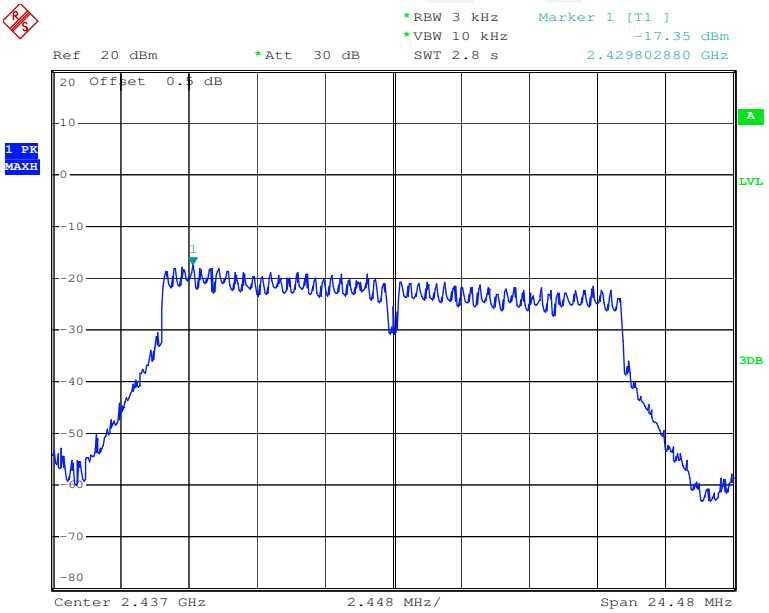
Date: 2.MAR.2016 14:30:31

Power Spectral Density, 802.11g Low Channel



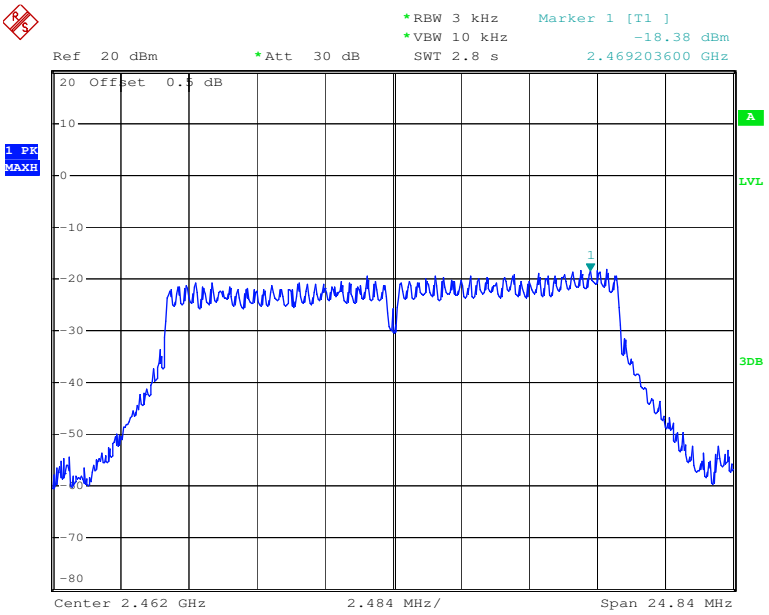
Date: 29.FEB.2016 13:38:30

Power Spectral Density, 802.11g Middle Channel



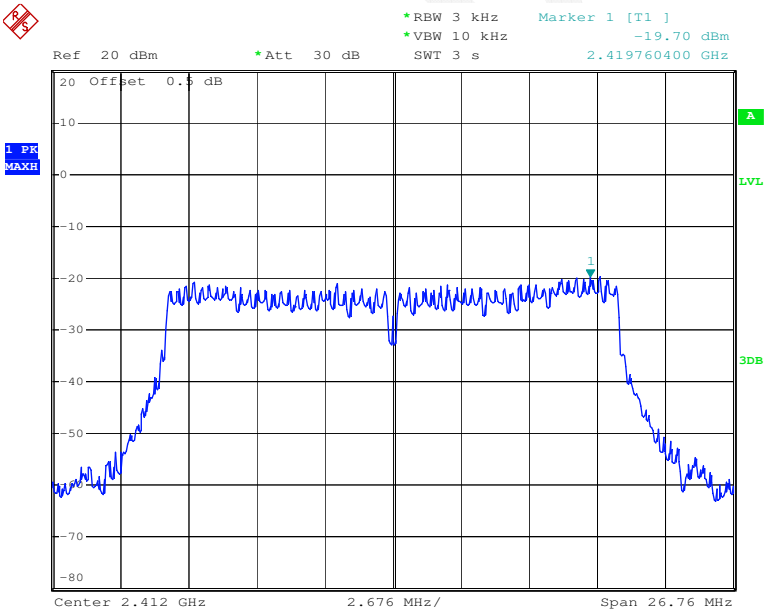
Date: 29.FEB.2016 13:46:52

Power Spectral Density, 802.11g High Channel



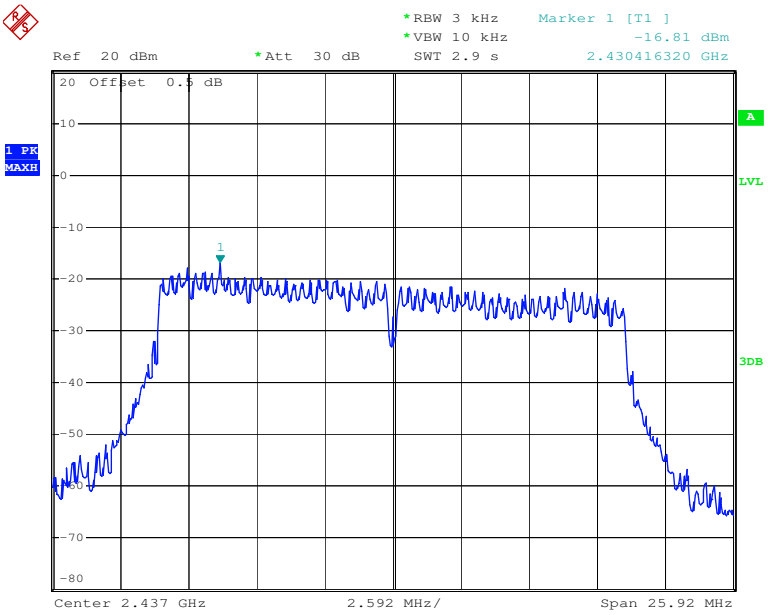
Date: 29.FEB.2016 13:49:55

Power Spectral Density, 802.11n ht20 Low Channel



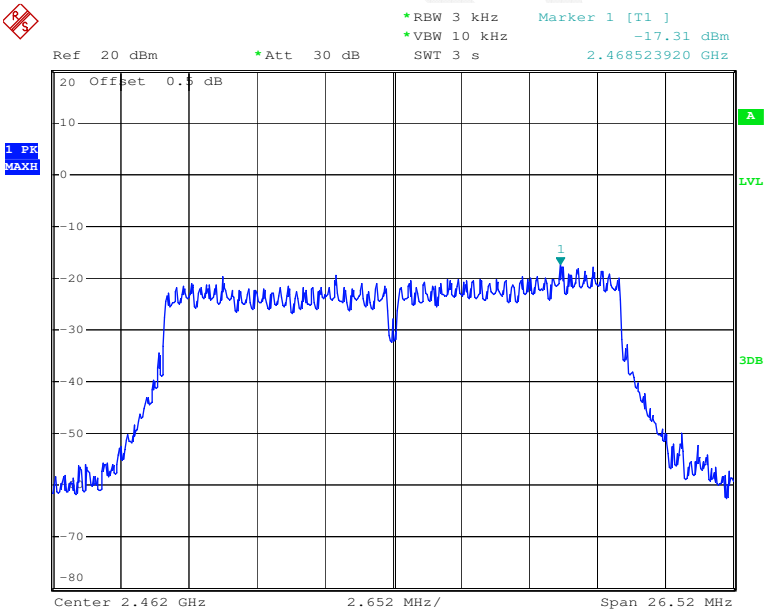
Date: 29.FEB.2016 13:54:16

Power Spectral Density, 802.11n ht20 Middle Channel



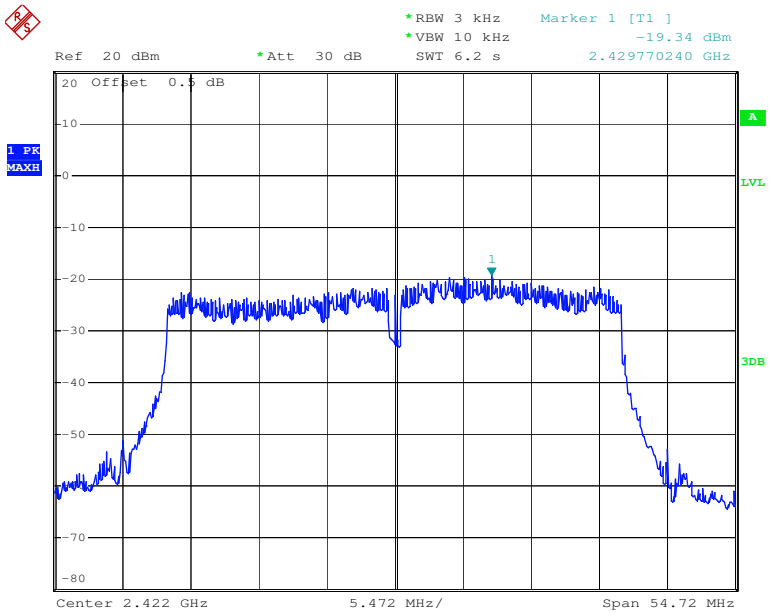
Date: 29.FEB.2016 14:00:33

Power Spectral Density, 802.11n ht20 High Channel



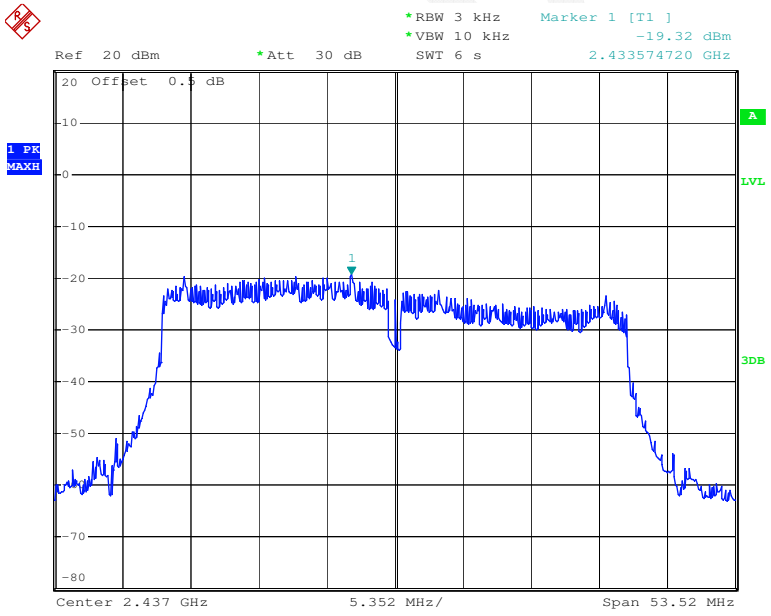
Date: 29.FEB.2016 14:06:48

Power Spectral Density, 802.11n ht40 Low Channel



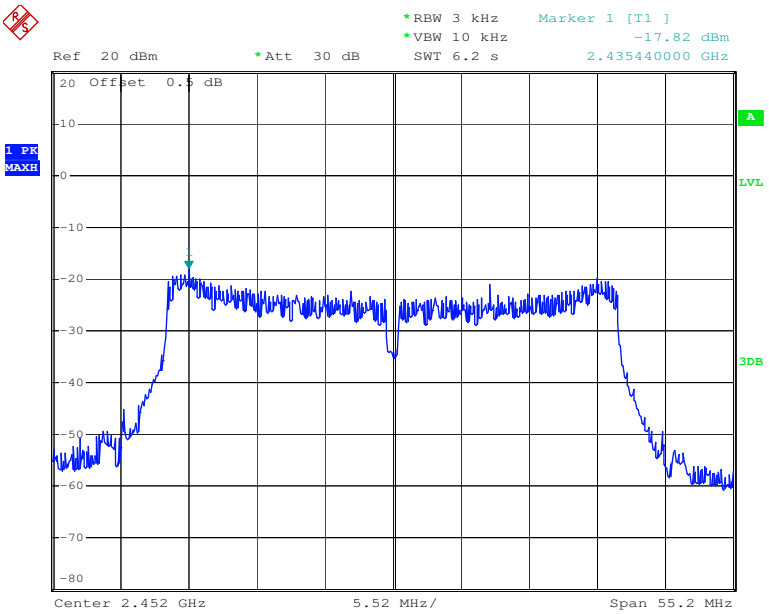
Date: 29.FEB.2016 14:10:13

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 29.FEB.2016 14:13:42

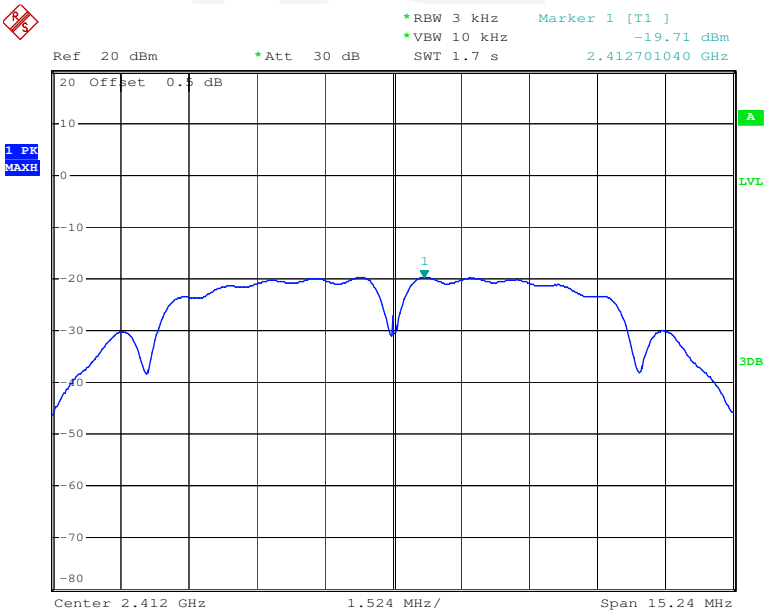
Power Spectral Density, 802.11n ht40 High Channel



Date: 29.FEB.2016 14:16:43

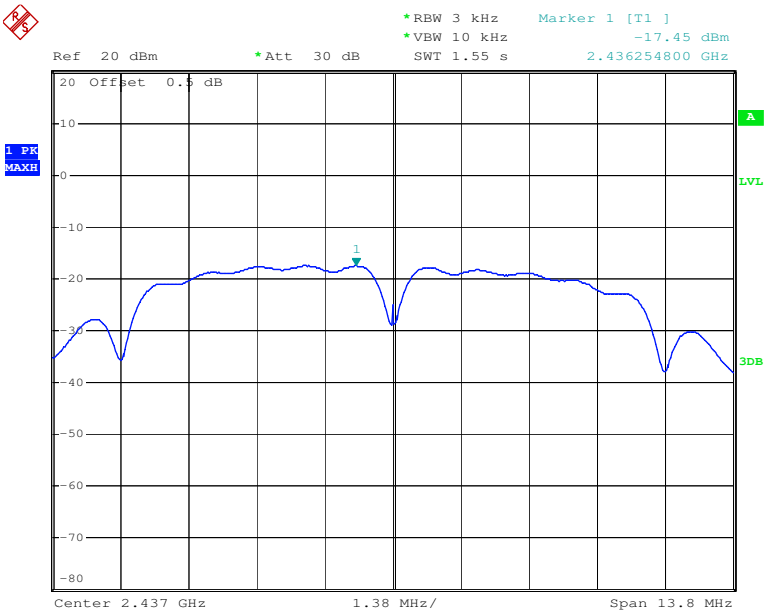
Chain 1

Power Spectral Density, 802.11b Low Channel



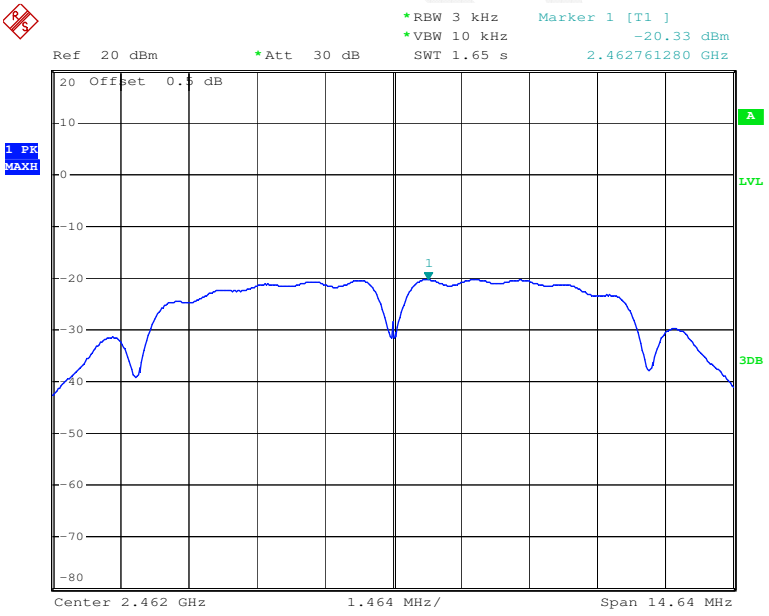
Date: 2.MAR.2016 14:41:32

Power Spectral Density, 802.11b Middle Channel



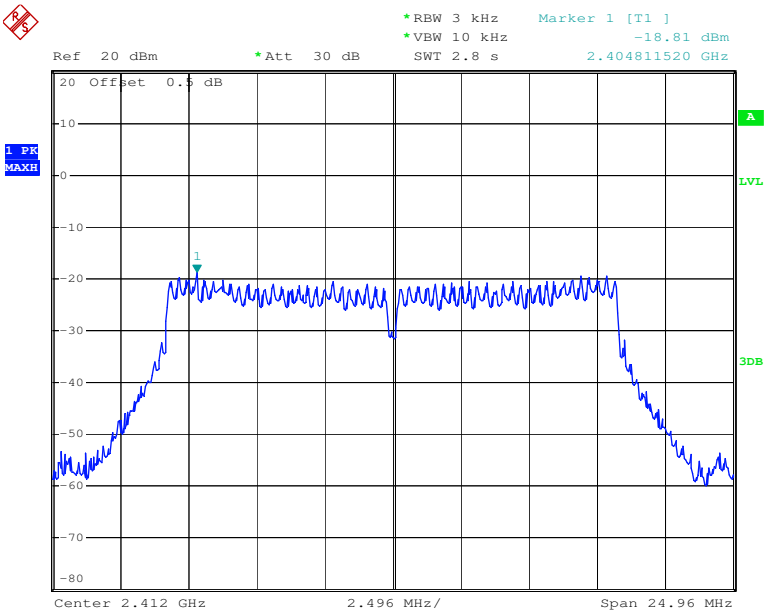
Date: 2.MAR.2016 14:38:29

Power Spectral Density, 802.11b High Channel



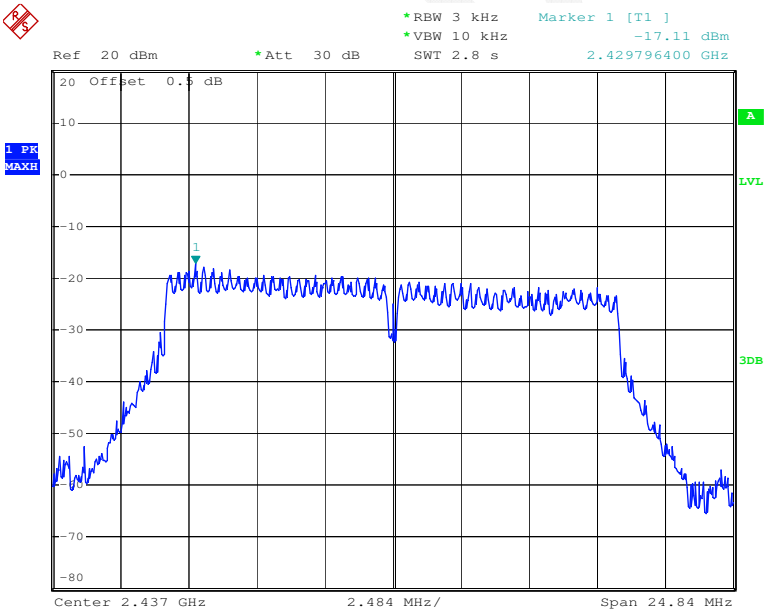
Date: 2.MAR.2016 14:34:25

Power Spectral Density, 802.11g Low Channel



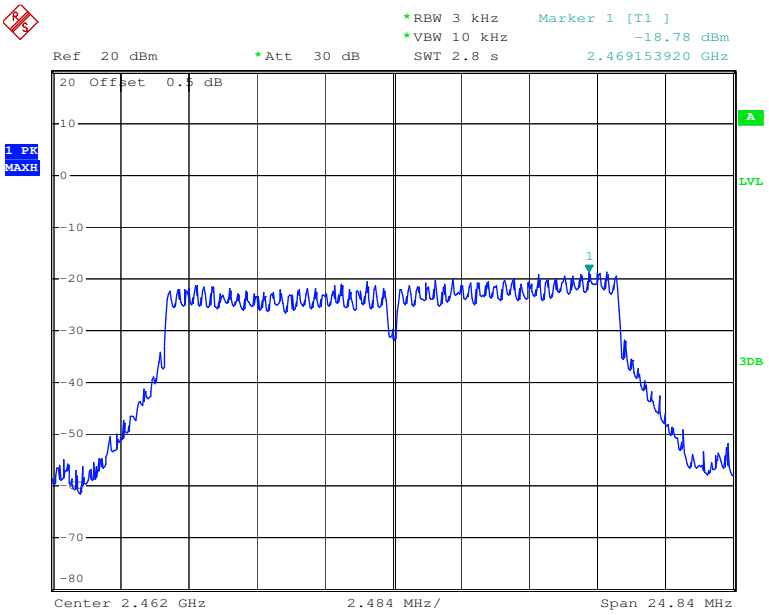
Date: 29.FEB.2016 11:32:50

Power Spectral Density, 802.11g Middle Channel



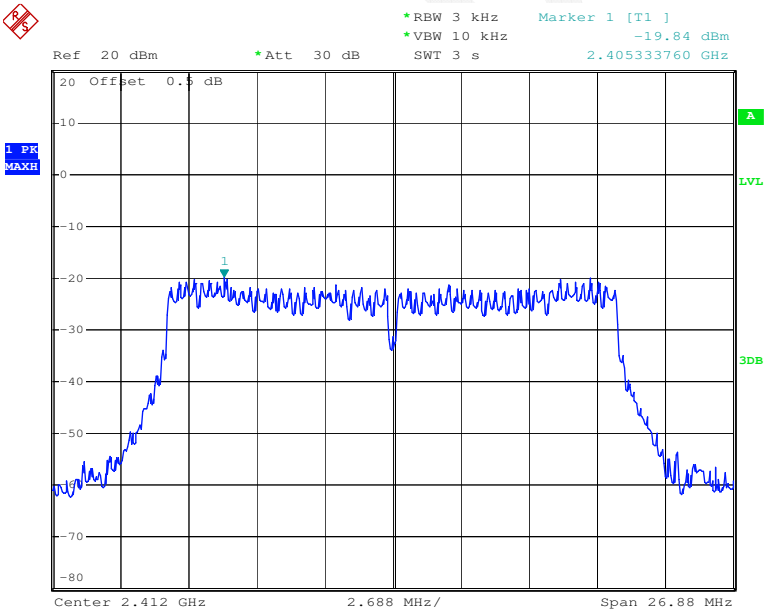
Date: 29.FEB.2016 11:36:33

Power Spectral Density, 802.11g High Channel



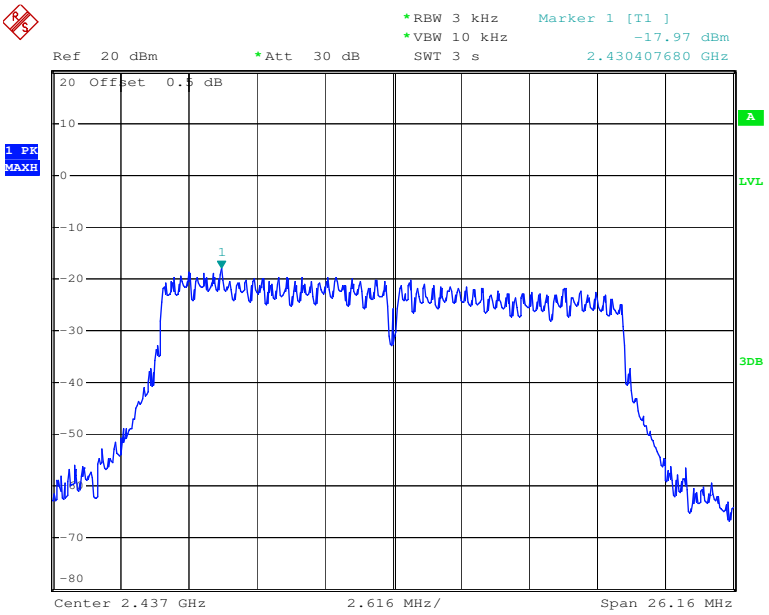
Date: 29.FEB.2016 11:39:53

Power Spectral Density, 802.11n ht20 Low Channel



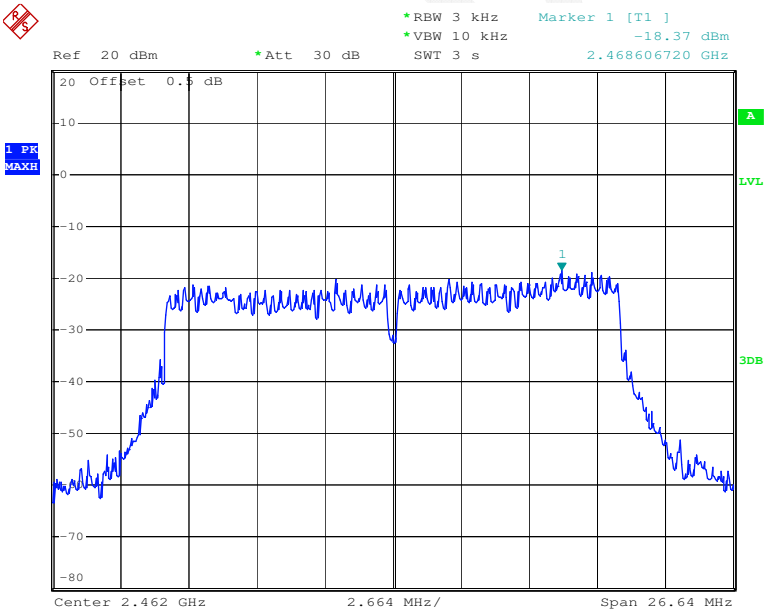
Date: 29.FEB.2016 11:50:01

Power Spectral Density, 802.11n ht20 Middle Channel



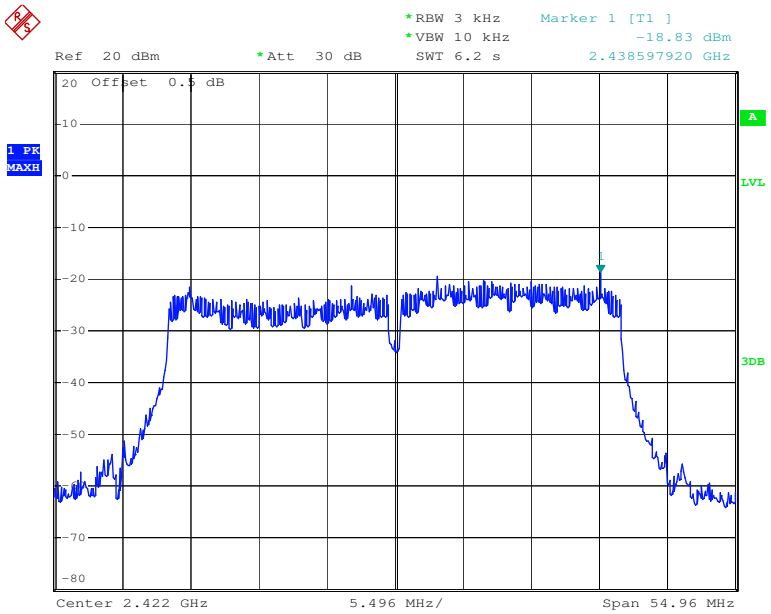
Date: 29.FEB.2016 11:56:47

Power Spectral Density, 802.11n ht20 High Channel



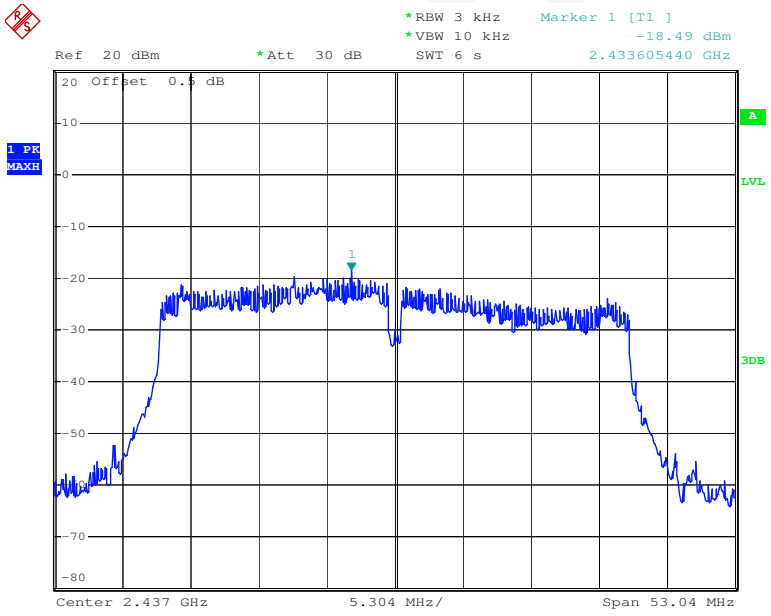
Date: 29.FEB.2016 13:05:21

Power Spectral Density, 802.11n ht40 Low Channel



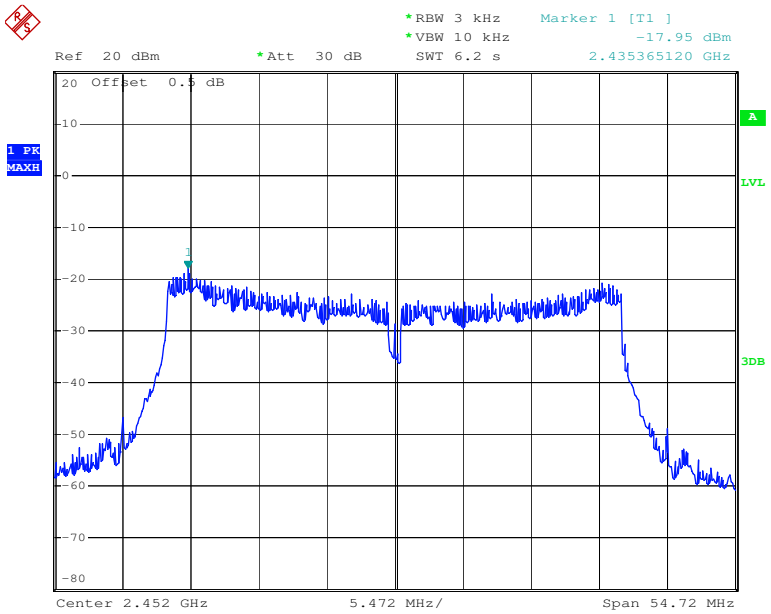
Date: 29.FEB.2016 13:09:37

Power Spectral Density, 802.11n ht40 Middle Channel



Date: 29.FEB.2016 13:14:36

Power Spectral Density, 802.11n ht40 High Channel



Date: 29.FEB.2016 13:18:06

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