

FCC PART 15.407

TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

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Nanshan, Shenzhen, Guangdong, China

FCC ID: SS3-HG3101508

Report Type: Original Report	Product Type: OSMO
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FINAL

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *SZ DJI TECHNOLOGY CO., LTD*'s product, model number: *OM160 (FCC ID: SS3-HG3101508)* (the "EUT") in this report was a *OSMO*, which was measured approximately: 5.3 cm (L) x 4.4 cm (W) x 16.1 cm (H), rated input voltage: DC 11.1V from Li-ion battery.

** All measurement and test data in this report was gathered from production sample serial number: 150818003 (Assigned by BACL, Dongguan). The EUT was received on 2015-08-18.*

Objective

This type approval report is prepared on behalf of *SZ DJI TECHNOLOGY CO., LTD* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and E of the Federal Communications Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Related Submittal(s)/Grant(s)

FCC DTS submissions with FCC ID: SS3-HG3101508.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, 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 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 facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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 EUT was configured for testing in an engineering mode which was provided by the manufacturer.

For 5150~5250 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240

For 802.11a, 802.11n ht20, Channel 36, 40 and 48 were tested, for 802.11n ht40, Channel 38, 46 were tested.

For 5725~5850MHz band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
157	5785	/	/

For 802.11a, 802.11n ht20, Channel 149, 157 and 165 was tested, for 802.11n ht40, Channel 151, 159 was tested.

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.

EUT Exercise Software

The software “IPOP” was used for testing, and the commands were provided by manufacturer. The worst condition (maximum power with 100% dutycycle) was setting by the software as following table:

5150~5250 MHz band

Test Mode	Test Software Version	IPOP		
802.11A	Test Frequency	5180MHz	5200MHz	5240MHz
	Data Rate	(OFDM)6Mbps	(OFDM)6Mbps	(OFDM)6Mbps
	Power Level Setting	20	19	19
802.11n ht20	Test Frequency	5180MHz	5200MHz	5240MHz
	Data Rate	(HT Mixmode)MCS0	(HT Mixmode)MCS0	(HT Mixmode)MCS0
	Power Level Setting	20	19	19
802.11n ht40	Test Frequency	5190MHz	5230MHz	/
	Data Rate	(HT Mix mode)MCS0	(HT Mix mode)MCS0	/
	Power Level Setting	17	17	/

5725~5850MHz band

Test Mode	Test Software Version	IPOP		
802.11A	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	(OFDM)6Mbps	(OFDM)6Mbps	(OFDM)6Mbps
	Power Level Setting	21	17	12
802.11n ht20	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	(HT Mixmode)MCS0	(HT Mixmode)MCS0	(HT Mixmode)MCS0
	Power Level Setting	20	17	12
802.11n ht40	Test Frequency	5755MHz	5795MHz	/
	Data Rate	(HT Mix mode)MCS0	(HT Mix mode)MCS0	/
	Power Level Setting	16	14	/

Equipment Modifications

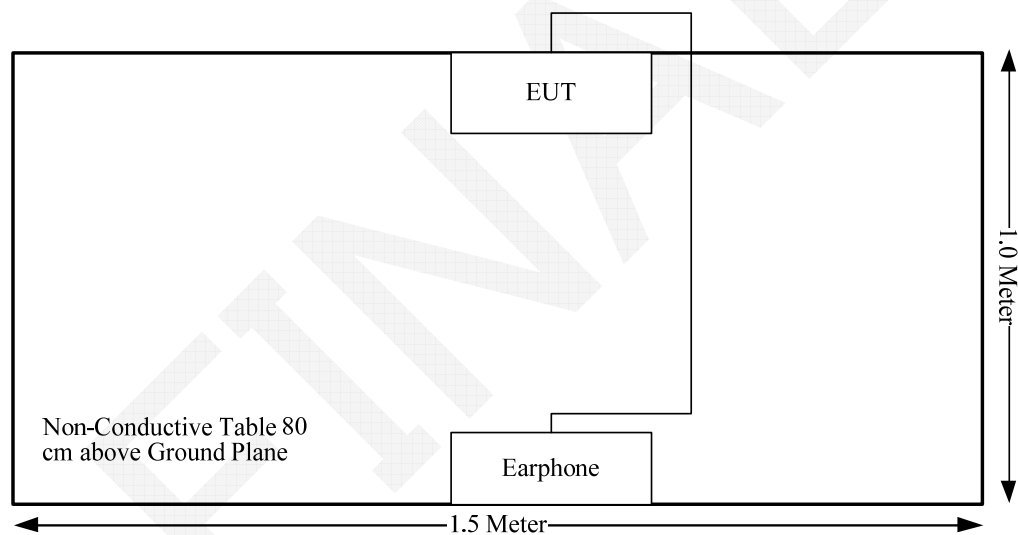
No modification was made to the EUT.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Meizu	Earphone	EP-21HD	N/A
DJI	OSMO	OM160	N/A

External I/O Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Earphone	No	No	1.5	EUT	/

Block Diagram of Test Setup

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.407 (f) & §1.1310 & §2.1093	RF EXPOSURE	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(6)& §15.207(a)	Conducted Emissions	Not Applicable
§15.205& §15.209 &§15.407(b) (1),(6),(7)	Undesirable Emission& Restricted Bands	Compliance
§15.407(b) (1),(2),(3),(4)	Out Of Band Emissions	Compliance
§15.407(a) (1)	26 dB Bandwidth	Compliance
§15.407(a)(1),	Conducted Transmitter Output Power	Compliance
§15.407 (a)(1),(5)	Power Spectral Density	Compliance

FCC §15.407 (f) & §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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ 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 output power = 7.57 dBm (5.71 mW) at 5795 MHz

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$

$= 5.71/5 \cdot (\sqrt{5.795}) = 2.75 < 3.0$

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 use of a standard antenna jack or electrical connector is prohibited.

And according to FCC 47 CFR section 15.407 (a)(1), if transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT have one internal antenna, the gain is 1.37dBi for 5.2G and 2.31dBi for 5.8G, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.209, §15.205 & §15.407(b) (1) (6) (7) –UNWANTED EMISSION**Applicable Standard**

FCC §15.407; §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

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_{cisp} 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_{cisp} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cisp})$, exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cisp})$, 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

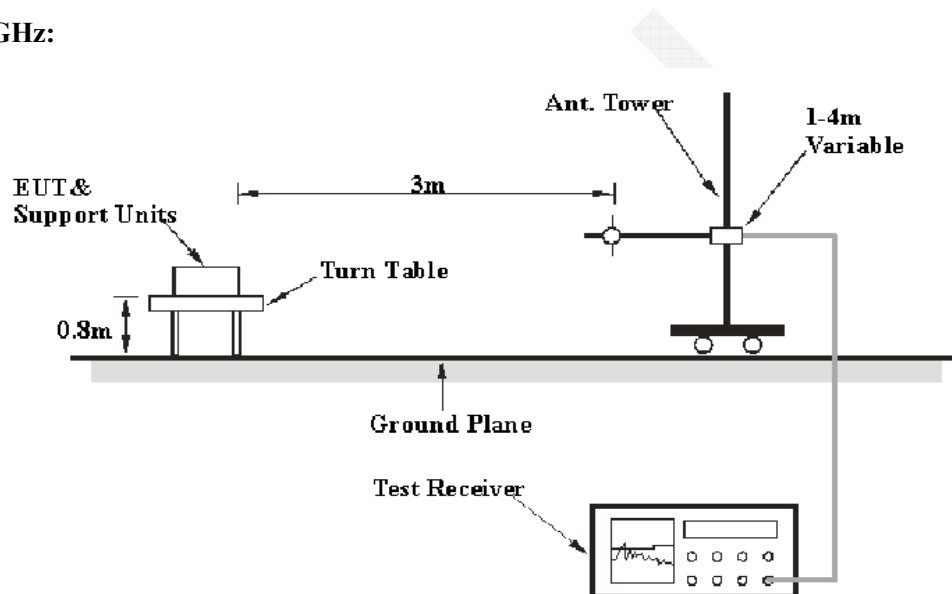
6G~18GHz: 5.23 dB

Table 1 – Values of U_{cispr}

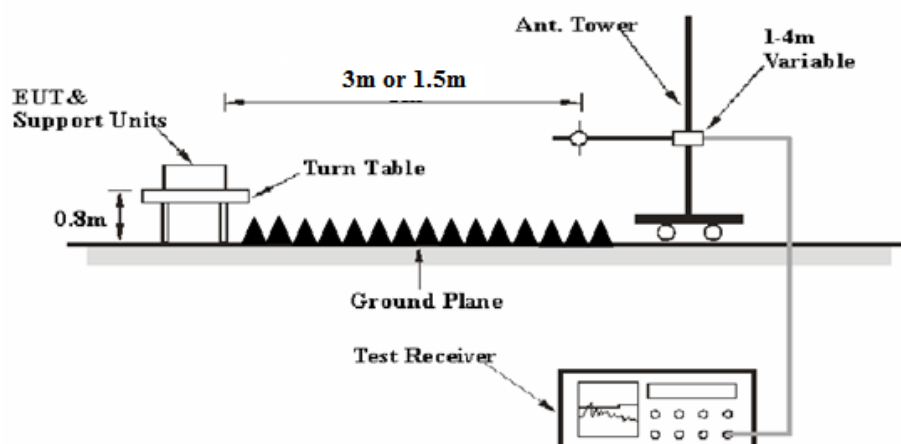
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters chamber, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.407 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 40 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

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-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v01, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

According to C63.4, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m

Distance extrapolation factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB

Extrapolation result = Corrected Amplitude (dB μ V/m) - distance extrapolation factor (6dB)

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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Extrapolation result}$$

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	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2014-09-01	2015-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2014-12-04	2015-12-04
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
Sinoscite	Bandstop Filters	BSF5150-5850MN-0899-003	N/A	2015-05-06	2016-05-06
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-01 1304	2014-06-16	2017-06-15
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-01 1302	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, Subpart C, Section 15.205, 15.209 and 15.407, with the worst margin reading of:

4.38 dB at 600.36 MHz in the **Vertical** polarization for 802.11n ht20 mode

Test Data**Environmental Conditions**

Temperature:	28.5°C
Relative Humidity:	46 %
ATM Pressure:	100 kPa

The testing was performed by Allen Qiao from 2015-08-28.

Result: Compliance.

Note 1: For above 1GHz, the test distance is 1.5m.

Note 2: the emission compliance 15.209 general requirements, or compliance the outside band emission limits in the un-restricted bands.

Please refer to the following tables

Mode: Transmitting

5150MHz-5250MHz: 802.11a Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5180 MHz										
5180	59.67	PK	H	31.46	5.40	0.00	96.53	90.53	N/A	N/A
5180	48.59	AV	H	31.46	5.40	0.00	85.45	79.45	N/A	N/A
5180	63.83	PK	V	31.46	5.40	0.00	100.69	94.69	N/A	N/A
5180	53.29	AV	V	31.46	5.40	0.00	90.15	84.15	N/A	N/A
5150	26.66	PK	V	31.40	5.26	0.00	63.32	57.32	74.00	16.68
5150	15.96	AV	V	31.40	5.26	0.00	52.62	46.62	54.00	7.38
10360	35.53	PK	V	36.97	8.36	25.52	55.34	49.34	74.00	24.66
10360	23.04	AV	V	36.97	8.36	25.52	42.85	36.85	54.00	17.15
15540	36.21	PK	V	37.43	14.94	24.98	63.60	57.60	74.00	16.40
15540	23.67	AV	V	37.43	14.94	24.98	51.06	45.06	54.00	8.94
6908	43.58	PK	V	33.36	6.33	26.44	56.83	50.83	74.69	23.86
6908	31.29	AV	V	33.36	6.33	26.44	44.54	38.54	64.15	25.61
4793	32.25	PK	V	30.56	5.13	27.41	40.53	34.53	74.00	39.47
4793	20.04	AV	V	30.56	5.13	27.41	28.32	22.32	54.00	31.68
468.44	42.10	QP	V	17.74	2.63	21.94	40.53	40.53	46.00	5.47
Middle Channel:5200 MHz										
5200	60.87	PK	H	31.50	5.49	0.00	97.86	91.86	N/A	N/A
5200	49.44	AV	H	31.50	5.49	0.00	86.43	80.43	N/A	N/A
5200	62.35	PK	V	31.50	5.49	0.00	99.34	93.34	N/A	N/A
5200	50.60	AV	V	31.50	5.49	0.00	87.59	81.59	N/A	N/A
10400	35.26	PK	V	36.98	8.32	25.50	55.06	49.06	74.00	24.94
10400	22.62	AV	V	36.98	8.32	25.50	42.42	36.42	54.00	17.58
15600	35.89	PK	V	37.32	14.69	24.69	63.21	57.21	74.00	16.79
15600	23.37	AV	V	37.32	14.69	24.69	50.69	44.69	54.00	9.31
6931	41.58	PK	V	33.42	6.34	26.39	54.95	48.95	73.34	24.39
6931	29.14	AV	V	33.42	6.34	26.39	42.51	36.51	61.59	25.08
3280	31.28	PK	V	28.10	5.61	27.30	37.69	31.69	74.00	42.31
3280	18.96	AV	V	28.10	5.61	27.30	25.37	19.37	54.00	34.63
468.44	42.40	QP	V	17.74	2.63	21.94	40.83	40.83	46.00	5.17
600.36	41.30	QP	V	19.31	2.98	22.27	41.32	41.32	46.00	4.68
High Channel:5240 MHz										
5240	59.62	PK	H	31.58	5.28	0.00	96.48	90.48	N/A	N/A
5240	48.27	AV	H	31.58	5.28	0.00	85.13	79.13	N/A	N/A
5240	61.95	PK	V	31.58	5.28	0.00	98.81	92.81	N/A	N/A
5240	50.28	AV	V	31.58	5.28	0.00	87.14	81.14	N/A	N/A
5350	25.96	PK	V	31.80	5.61	0.00	63.37	57.37	74.00	16.63
5350	14.35	AV	V	31.80	5.61	0.00	51.76	45.76	54.00	8.24
10480	35.42	PK	V	37.00	8.23	26.01	54.64	48.64	74.00	25.36
10480	22.64	AV	V	37.00	8.23	26.01	41.86	35.86	54.00	18.14
15720	35.77	PK	V	37.10	14.20	24.92	62.15	56.15	74.00	17.85
15720	23.33	AV	V	37.10	14.20	24.92	49.71	43.71	54.00	10.29
6984	41.44	PK	V	33.56	6.36	26.27	55.09	49.09	72.81	23.72
6984	28.66	AV	V	33.56	6.36	26.27	42.31	36.31	61.14	24.83
3280	30.81	PK	V	28.10	5.61	27.30	37.22	31.22	74.00	42.78
3280	18.54	AV	V	28.10	5.61	27.30	24.95	18.95	54.00	35.05
468.44	42.60	QP	V	17.74	2.63	21.94	41.03	41.03	46.00	4.97

*Within measurement uncertainty!

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5180 MHz										
5180	61.56	PK	H	31.46	5.40	0.00	98.42	92.42	N/A	N/A
5180	49.43	AV	H	31.46	5.40	0.00	86.29	80.29	N/A	N/A
5180	62.97	PK	V	31.46	5.40	0.00	99.83	93.83	N/A	N/A
5180	51.83	AV	V	31.46	5.40	0.00	88.69	82.69	N/A	N/A
5150	26.39	PK	V	31.40	5.26	0.00	63.05	57.05	74.00	16.95
5150	15.45	AV	V	31.40	5.26	0.00	52.11	46.11	54.00	7.89
10360	38.50	PK	V	36.97	8.36	25.52	58.31	52.31	74.00	21.69
10360	25.32	AV	V	36.97	8.36	25.52	45.13	39.13	54.00	14.87
15540	35.80	PK	V	37.43	14.94	24.98	63.19	57.19	74.00	16.81
15540	23.66	AV	V	37.43	14.94	24.98	51.05	45.05	54.00	8.95
6908	40.67	PK	V	33.36	6.33	26.44	53.92	47.92	73.83	25.91
6908	28.11	AV	V	33.36	6.33	26.44	41.36	35.36	62.69	27.33
4936	32.21	PK	V	30.93	5.35	27.43	41.06	35.06	74.00	38.94
4936	19.87	AV	V	30.93	5.35	27.43	28.72	22.72	54.00	31.28
468.44	42.30	QP	V	17.74	2.63	21.94	40.73	40.73	46.00	5.27
Middle Channel:5200 MHz										
5200	60.82	PK	H	31.50	5.49	0.00	97.81	91.81	N/A	N/A
5200	49.03	AV	H	31.50	5.49	0.00	86.02	80.02	N/A	N/A
5200	62.15	PK	V	31.50	5.49	0.00	99.14	93.14	N/A	N/A
5200	50.62	AV	V	31.50	5.49	0.00	87.61	81.61	N/A	N/A
10400	38.69	PK	V	36.98	8.32	25.50	58.49	52.49	74.00	21.51
10400	25.71	AV	V	36.98	8.32	25.50	45.51	39.51	54.00	14.49
15600	36.23	PK	V	37.32	14.69	24.69	63.55	57.55	74.00	16.45
15600	24.10	AV	V	37.32	14.69	24.69	51.42	45.42	54.00	8.58
6935	41.45	PK	V	33.43	6.34	26.38	54.84	48.84	73.14	24.30
6935	28.82	AV	V	33.43	6.34	26.38	42.21	36.21	61.61	25.40
2786	32.07	PK	V	26.64	4.45	27.55	35.61	29.61	74.00	44.39
2786	19.71	AV	V	26.64	4.45	27.55	23.25	17.25	54.00	36.75
468.44	42.50	QP	V	17.74	2.63	21.94	40.93	40.93	46.00	5.07
600.36	41.60	QP	V	19.31	2.98	22.27	41.62	41.62	46.00	4.38
High Channel:5240 MHz										
5240	59.21	PK	H	31.58	5.28	0.00	96.07	90.07	N/A	N/A
5240	48.03	AV	H	31.58	5.28	0.00	84.89	78.89	N/A	N/A
5240	61.88	PK	V	31.58	5.28	0.00	98.74	92.74	N/A	N/A
5240	50.41	AV	V	31.58	5.28	0.00	87.27	81.27	N/A	N/A
5350	25.82	PK	V	31.80	5.61	0.00	63.23	57.23	74.00	16.77
5350	14.21	AV	V	31.80	5.61	0.00	51.62	45.62	54.00	8.38
10480	38.44	PK	V	37.00	8.23	26.01	57.66	51.66	74.00	22.34
10480	25.38	AV	V	37.00	8.23	26.01	44.60	38.60	54.00	15.40
15720	35.79	PK	V	37.10	14.20	24.92	62.17	56.17	74.00	17.83
15720	23.63	AV	V	37.10	14.20	24.92	50.01	44.01	54.00	9.99
6984	40.42	PK	V	33.56	6.36	26.27	54.07	48.07	72.74	24.67
6984	27.76	AV	V	33.56	6.36	26.27	41.41	35.41	61.27	25.86
2786	31.68	PK	V	26.64	4.45	27.55	35.22	29.22	74.00	44.78
2786	19.57	AV	V	26.64	4.45	27.55	23.11	17.11	54.00	36.89
468.44	42.20	QP	V	17.74	2.63	21.94	40.63	40.63	46.00	5.37

*Within measurement uncertainty!

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5190 MHz										
5190	58.41	PK	H	31.48	5.44	0.00	95.33	89.33	N/A	N/A
5190	45.67	AV	H	31.48	5.44	0.00	82.59	76.59	N/A	N/A
5190	59.82	PK	V	31.48	5.44	0.00	96.74	90.74	N/A	N/A
5190	47.52	AV	V	31.48	5.44	0.00	84.44	78.44	N/A	N/A
5150	26.13	PK	V	31.40	5.26	0.00	62.79	56.79	74.00	17.21
5150	15.22	AV	V	31.40	5.26	0.00	51.88	45.88	54.00	8.12
10380	33.57	PK	V	36.98	8.34	25.51	53.38	47.38	74.00	26.62
10380	21.28	AV	V	36.98	8.34	25.51	41.09	35.09	54.00	18.91
15570	36.22	PK	V	37.37	14.81	24.83	63.57	57.57	74.00	16.43
15570	24.01	AV	V	37.37	14.81	24.83	51.36	45.36	54.00	8.64
6922	39.88	PK	V	33.40	6.33	26.41	53.20	47.20	76.74	29.54
6922	27.65	AV	V	33.40	6.33	26.41	40.97	34.97	64.44	29.47
2786	32.29	PK	V	26.64	4.45	27.55	35.83	29.83	74.00	44.17
2786	19.82	AV	V	26.64	4.45	27.55	23.36	17.36	54.00	36.64
468.44	42.60	QP	V	17.74	2.63	21.94	41.03	41.03	46.00	4.97
High Channel:5230 MHz										
5230	57.25	PK	H	31.56	5.33	0.00	94.14	88.14	N/A	N/A
5230	45.06	AV	H	31.56	5.33	0.00	81.95	75.95	N/A	N/A
5230	58.57	PK	V	31.56	5.33	0.00	95.46	89.46	N/A	N/A
5230	46.23	AV	V	31.56	5.33	0.00	83.12	77.12	N/A	N/A
5350	25.34	PK	V	31.80	5.61	0.00	62.75	56.75	74.00	17.25
5350	14.06	AV	V	31.80	5.61	0.00	51.47	45.47	54.00	8.53
10460	33.30	PK	V	36.99	8.25	25.88	52.66	46.66	74.00	27.34
10460	20.93	AV	V	36.99	8.25	25.88	40.29	34.29	54.00	19.71
15690	35.84	PK	V	37.16	14.32	24.87	62.45	56.45	74.00	17.55
15690	23.69	AV	V	37.16	14.32	24.87	50.30	44.30	54.00	9.70
6973	39.39	PK	V	33.53	6.36	26.30	52.98	46.98	75.46	28.48
6973	27.20	AV	V	33.53	6.36	26.30	40.79	34.79	63.12	28.33
2786	32.05	PK	V	26.64	4.45	27.55	35.59	29.59	74.00	44.41
2786	19.74	AV	V	26.64	4.45	27.55	23.28	17.28	54.00	36.72
468.44	42.40	QP	V	17.74	2.63	21.94	40.83	40.83	46.00	5.17

*Within measurement uncertainty!

5725MHz-5850MHz: 802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5745 MHz										
5745	60.38	PK	H	32.15	5.53	0.00	98.06	92.06	N/A	N/A
5745	48.52	AV	H	32.15	5.53	0.00	86.20	80.20	N/A	N/A
5745	58.86	PK	V	32.15	5.53	0.00	96.54	90.54	N/A	N/A
5745	46.75	AV	V	32.15	5.53	0.00	84.43	78.43	N/A	N/A
5725	25.69	PK	V	32.15	5.60	0.00	63.44	57.44	78.20	20.76
5715	25.03	PK	V	32.14	5.63	0.00	62.80	56.80	68.20	11.40
11490	35.92	PK	V	37.89	8.94	26.14	56.61	50.61	74.00	23.39
11490	22.77	AV	V	37.89	8.94	26.14	43.46	37.46	54.00	16.54
17235	35.98	PK	V	40.91	13.69	25.63	64.95	58.95	74.00	15.05
17235	23.39	AV	V	40.91	13.69	25.63	52.36	46.36	54.00	7.64
4867	35.26	PK	V	30.75	5.09	27.42	43.68	37.68	74.00	36.32
4867	22.89	AV	V	30.75	5.09	27.42	31.31	25.31	54.00	28.69
7534	34.33	PK	V	34.83	6.94	26.23	49.87	43.87	74.00	30.13
7534	22.04	AV	V	34.83	6.94	26.23	37.58	31.58	54.00	22.42
468.44	42.10	QP	V	17.74	2.63	21.94	40.53	40.53	46.00	5.47
Middle Channel:5785 MHz										
5785	61.18	PK	H	32.16	5.47	0.00	98.81	92.81	N/A	N/A
5785	48.87	AV	H	32.16	5.47	0.00	86.50	80.50	N/A	N/A
5785	59.22	PK	V	32.16	5.47	0.00	96.85	90.85	N/A	N/A
5785	47.08	AV	V	32.16	5.47	0.00	84.71	78.71	N/A	N/A
11570	35.96	PK	V	37.90	8.92	26.07	56.71	50.71	74.00	23.29
11570	22.74	AV	V	37.90	8.92	26.07	43.49	37.49	54.00	16.51
17355	35.87	PK	V	41.63	12.99	25.63	64.86	58.86	74.00	15.14
17355	23.36	AV	V	41.63	12.99	25.63	52.35	46.35	54.00	7.65
4867	34.92	PK	V	30.75	5.09	27.42	43.34	37.34	74.00	36.66
4867	22.48	AV	V	30.75	5.09	27.42	30.90	24.90	54.00	29.10
7534	36.09	PK	V	34.83	6.94	26.23	51.63	45.63	74.00	28.37
7534	23.98	AV	V	34.83	6.94	26.23	39.52	33.52	54.00	20.48
468.44	42.50	QP	V	17.74	2.63	21.94	40.93	40.93	46.00	5.07
600.36	41.60	QP	V	19.31	2.98	22.27	41.62	41.62	46.00	4.38
High Channel:5825 MHz										
5825	60.56	PK	H	32.17	5.75	0.00	98.48	92.48	N/A	N/A
5825	58.74	AV	H	32.17	5.75	0.00	96.66	90.66	N/A	N/A
5825	59.01	PK	V	32.17	5.75	0.00	96.93	90.93	N/A	N/A
5825	47.12	AV	V	32.17	5.75	0.00	85.04	79.04	N/A	N/A
5850	26.34	PK	V	32.17	6.05	0.00	64.56	58.56	78.20	19.64
5860	25.86	PK	V	32.17	6.02	0.00	64.05	58.05	68.20	10.15
11650	35.98	PK	V	37.90	8.90	25.75	57.03	51.03	74.00	22.97
11650	22.92	AV	V	37.90	8.90	25.75	43.97	37.97	54.00	16.03
17475	35.97	PK	V	42.35	12.30	25.39	65.23	59.23	74.00	14.77
17475	23.21	AV	V	42.35	12.30	25.39	52.47	46.47	54.00	7.53
4867	34.97	PK	V	30.75	5.09	27.42	43.39	37.39	74.00	36.61
4867	22.38	AV	V	30.75	5.09	27.42	30.80	24.80	54.00	29.20
7534	36.00	PK	V	34.83	6.94	26.23	51.54	45.54	74.00	28.46
7534	23.92	AV	V	34.83	6.94	26.23	39.46	33.46	54.00	20.54
468.44	42.40	QP	V	17.74	2.63	21.94	40.83	40.83	46.00	5.17

*Within measurement uncertainty!

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5745 MHz										
5745	59.86	PK	H	32.15	5.53	0.00	97.54	91.54	N/A	N/A
5745	47.92	AV	H	32.15	5.53	0.00	85.60	79.60	N/A	N/A
5745	58.94	PK	V	32.15	5.53	0.00	96.62	90.62	N/A	N/A
5745	46.8	AV	V	32.15	5.53	0.00	84.48	78.48	N/A	N/A
5725	25.12	PK	V	32.15	5.60	0.00	62.87	56.87	78.20	21.33
5715	24.56	PK	V	32.14	5.63	0.00	62.33	56.33	68.20	11.87
11490	35.88	PK	V	37.89	8.94	26.14	56.57	50.57	74.00	23.43
11490	22.93	AV	V	37.89	8.94	26.14	43.62	37.62	54.00	16.38
17235	35.91	PK	V	40.91	13.69	25.63	64.88	58.88	74.00	15.12
17235	23.37	AV	V	40.91	13.69	25.63	52.34	46.34	54.00	7.66
4867	35.02	PK	V	30.75	5.09	27.42	43.44	37.44	74.00	36.56
4867	22.43	AV	V	30.75	5.09	27.42	30.85	24.85	54.00	29.15
7534	36.10	PK	V	34.83	6.94	26.23	51.64	45.64	74.00	28.36
7534	24.00	AV	V	34.83	6.94	26.23	39.54	33.54	54.00	20.46
468.44	42.20	QP	V	17.74	2.63	21.94	40.63	40.63	46.00	5.37
Middle Channel:5785 MHz										
5785	61.39	PK	H	32.16	5.47	0.00	99.02	93.02	N/A	N/A
5785	49.04	AV	H	32.16	5.47	0.00	86.67	80.67	N/A	N/A
5785	58.82	PK	V	32.16	5.47	0.00	96.45	90.45	N/A	N/A
5785	46.81	AV	V	32.16	5.47	0.00	84.44	78.44	N/A	N/A
11570	36.04	PK	V	37.90	8.92	26.07	56.79	50.79	74.00	23.21
11570	22.76	AV	V	37.90	8.92	26.07	43.51	37.51	54.00	16.49
17355	35.95	PK	V	41.63	12.99	25.63	64.94	58.94	74.00	15.06
17355	23.27	AV	V	41.63	12.99	25.63	52.26	46.26	54.00	7.74
4867	34.94	PK	V	30.75	5.09	27.42	43.36	37.36	74.00	36.64
4867	22.55	AV	V	30.75	5.09	27.42	30.97	24.97	54.00	29.03
7534	36.18	PK	V	34.83	6.94	26.23	51.72	45.72	74.00	28.28
7534	23.82	AV	V	34.83	6.94	26.23	39.36	33.36	54.00	20.64
468.44	42.10	QP	V	17.74	2.63	21.94	40.53	40.53	46.00	5.47
600.36	41.30	QP	V	19.31	2.98	22.27	41.32	41.32	46.00	4.68
High Channel:5825 MHz										
5825	61.04	PK	H	32.17	5.75	0.00	98.96	92.96	N/A	N/A
5825	48.79	AV	H	32.17	5.75	0.00	86.71	80.71	N/A	N/A
5825	58.66	PK	V	32.17	5.75	0.00	96.58	90.58	N/A	N/A
5825	46.52	AV	V	32.17	5.75	0.00	84.44	78.44	N/A	N/A
5850	26.26	PK	V	32.17	6.05	0.00	64.48	58.48	78.20	19.72
5860	25.87	PK	V	32.17	6.02	0.00	64.06	58.06	68.20	10.14
11650	35.93	PK	V	37.90	8.90	25.75	56.98	50.98	74.00	23.02
11650	22.87	AV	V	37.90	8.90	25.75	43.92	37.92	54.00	16.08
17475	35.82	PK	V	42.35	12.30	25.39	65.08	59.08	74.00	14.92
17475	23.34	AV	V	42.35	12.30	25.39	52.60	46.60	54.00	7.40
4867	34.89	PK	V	30.75	5.09	27.42	43.31	37.31	74.00	36.69
4867	22.51	AV	V	30.75	5.09	27.42	30.93	24.93	54.00	29.07
7534	36.03	PK	V	34.83	6.94	26.23	51.57	45.57	74.00	28.43
7534	23.99	AV	V	34.83	6.94	26.23	39.53	33.53	54.00	20.47
468.44	42.50	QP	V	17.74	2.63	21.94	40.93	40.93	46.00	5.07

*Within measurement uncertainty!

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5755 MHz										
5755	58.62	PK	H	32.15	5.50	0.00	96.27	90.27	N/A	N/A
5755	46.58	AV	H	32.15	5.50	0.00	84.23	78.23	N/A	N/A
5755	56.45	PK	V	32.15	5.50	0.00	94.10	88.10	N/A	N/A
5755	44.32	AV	V	32.15	5.50	0.00	81.97	75.97	N/A	N/A
5725	25.74	PK	V	32.15	5.60	0.00	63.49	57.49	78.20	20.71
5715	25.28	PK	V	32.14	5.63	0.00	63.05	57.05	68.20	11.15
11510	35.56	PK	V	37.90	8.95	26.12	56.29	50.29	74.00	23.71
11510	22.63	AV	V	37.90	8.95	26.12	43.36	37.36	54.00	16.64
17265	35.68	PK	V	41.09	13.51	25.63	64.65	58.65	74.00	15.35
17265	23.11	AV	V	41.09	13.51	25.63	52.08	46.08	54.00	7.92
4867	34.72	PK	V	30.75	5.09	27.42	43.14	37.14	74.00	36.86
4867	22.25	AV	V	30.75	5.09	27.42	30.67	24.67	54.00	29.33
7534	35.88	PK	V	34.83	6.94	26.23	51.42	45.42	74.00	28.58
7534	23.71	AV	V	34.83	6.94	26.23	39.25	33.25	54.00	20.75
468.44	42.60	QP	V	17.74	2.63	21.94	41.03	41.03	46.00	4.97
High Channel:5795 MHz										
5795	59.83	PK	H	32.16	5.46	0.00	97.45	91.45	N/A	N/A
5795	47.70	AV	H	32.16	5.46	0.00	85.32	79.32	N/A	N/A
5795	58.07	PK	V	32.16	5.46	0.00	95.69	89.69	N/A	N/A
5795	45.88	AV	V	32.16	5.46	0.00	83.50	77.50	N/A	N/A
5850	26.41	PK	V	32.17	6.05	0.00	64.63	58.63	78.20	19.57
5860	25.88	PK	V	32.17	6.02	0.00	64.07	58.07	68.20	10.13
11590	35.68	PK	V	37.90	8.92	26.06	56.44	50.44	74.00	23.56
11590	23.04	AV	V	37.90	8.92	26.06	43.80	37.80	54.00	16.20
17385	36.12	PK	V	41.81	12.82	25.63	65.12	59.12	74.00	14.88
17385	23.58	AV	V	41.81	12.82	25.63	52.58	46.58	54.00	7.42
4867	35.17	PK	V	30.75	5.09	27.42	43.59	37.59	74.00	36.41
4867	22.69	AV	V	30.75	5.09	27.42	31.11	25.11	54.00	28.89
7534	36.33	PK	V	34.83	6.94	26.23	51.87	45.87	74.00	28.13
7534	24.07	AV	V	34.83	6.94	26.23	39.61	33.61	54.00	20.39
468.44	42.40	QP	V	17.74	2.63	21.94	40.83	40.83	46.00	5.17

*Within measurement uncertainty!

FCC§15.407(b) –CONDUCTED SPURIOUS EMISSION AT ANTENNA PORT

Applicable Standard

FCC §15.407;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

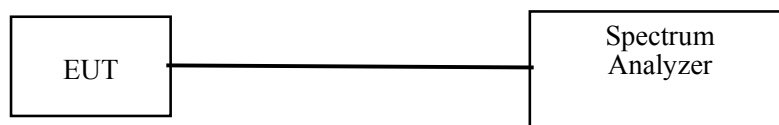
(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. The Resolution bandwidth is set to 1MHz, The Video bandwidth is set to ≥ 1 MHz, report the peak value out of the operating band. Offset the antenna gain and cable loss.
3. Repeat above procedures until all frequencies measured were complete.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSEM	831259/019	2015-05-09	2016-05-09
Agilent	Spectrum Analyzer	8564E	3943A01781	2015-05-09	2016-05-09
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:	27.3-27.4 °C
Relative Humidity:	56-57 %
ATM Pressure:	99.4-100 kPa

The testing was performed by Allen Qiao on 2015-08-24 and 2015-08-28.

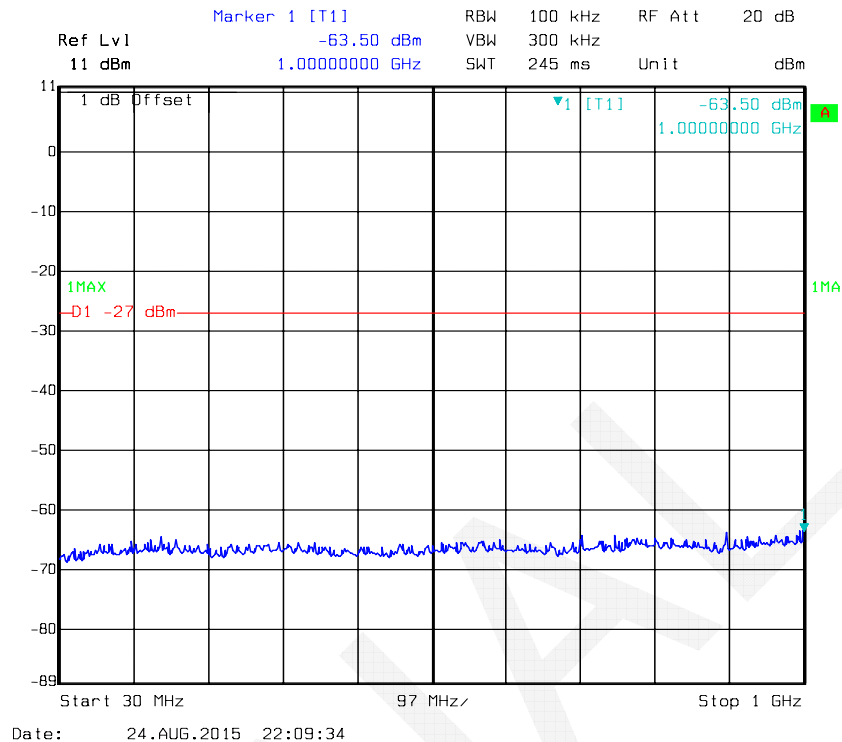
Result: Compliance.

Please refer to the following table and plots.

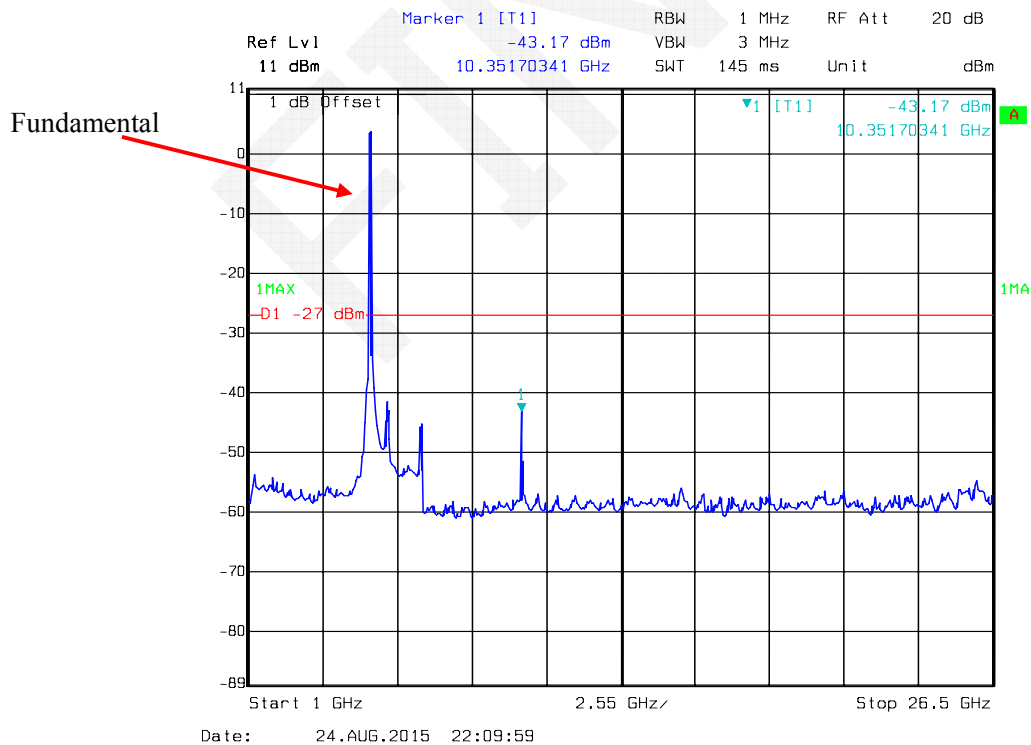
Mode	Mode	Channel	Frequency	Conducted Spurious Emissions			
			MHz	Reading(dBm/MHz)	Antenna Gain(dBi)	EIRP(dBm/MHz)	Limits
5150-5250MHz	802.11a	Low	5180	-43.17	2.31	-40.86	-27
		Middle	5200	-42.44	2.31	-40.13	-27
		High	5240	-40.22	2.31	-37.91	-27
	802.11n20	Low	5180	-43.99	2.31	-41.68	-27
		Middle	5200	-40.32	2.31	-38.01	-27
		High	5240	-39.72	2.31	-37.41	-27
	802.11n40	Low	5190	-40.9	2.31	-38.59	-27
		High	5230	-42.52	2.31	-40.21	-27
5725-5850MHz	802.11a	Low	5745	-53.66	2.31	-51.35	-27
		Middle	5785	-54.24	2.31	-51.93	-27
		High	5825	-53.28	2.31	-50.97	-27
	802.11n20	Low	5745	-52.81	2.31	-50.5	-27
		Middle	5785	-53.46	2.31	-51.15	-27
		High	5825	-53.58	2.31	-51.27	-27
	802.11n40	Low	5755	-45.02	2.31	-42.71	-27
		High	5795	-44.77	2.31	-42.46	-27

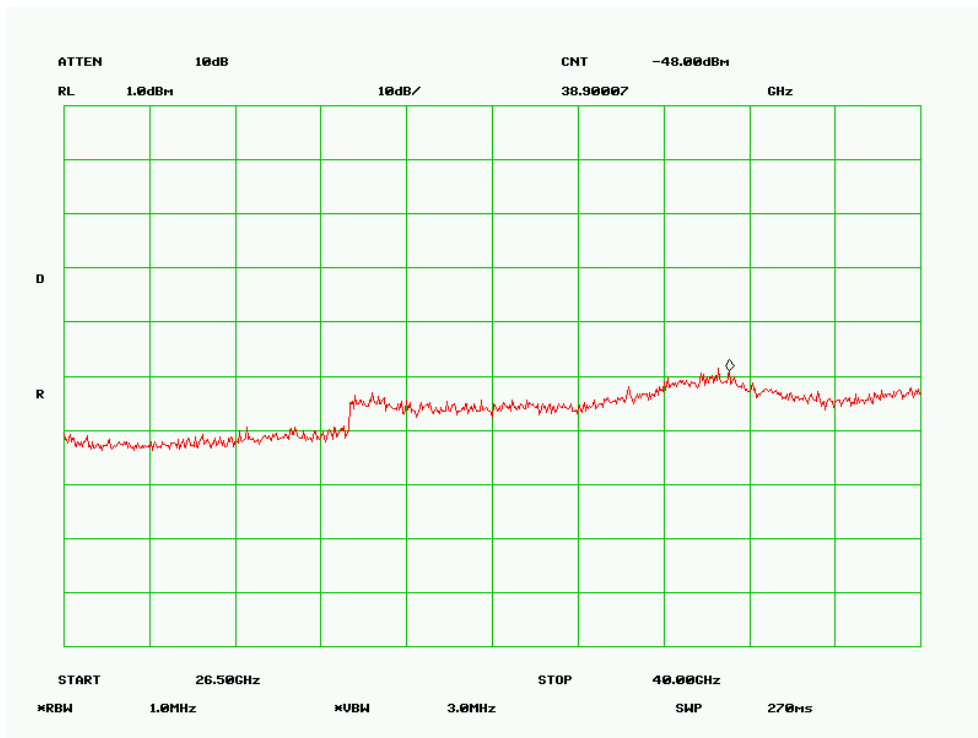
5150MHz-5250MHz:

802.11a Low Channel 30MHz-1GHz

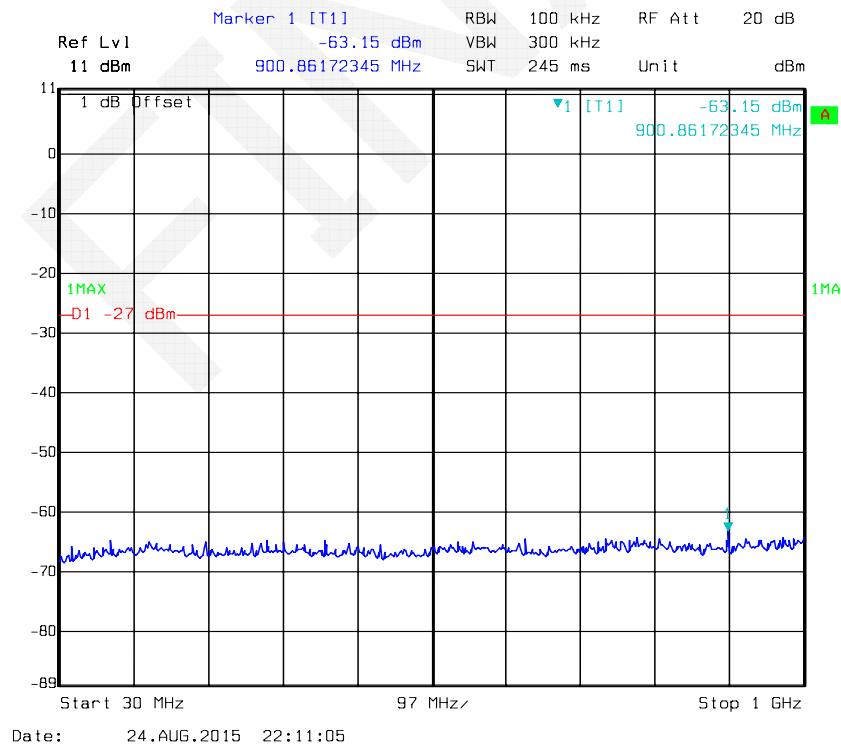


802.11a Low Channel 1GHz-26.5GHz

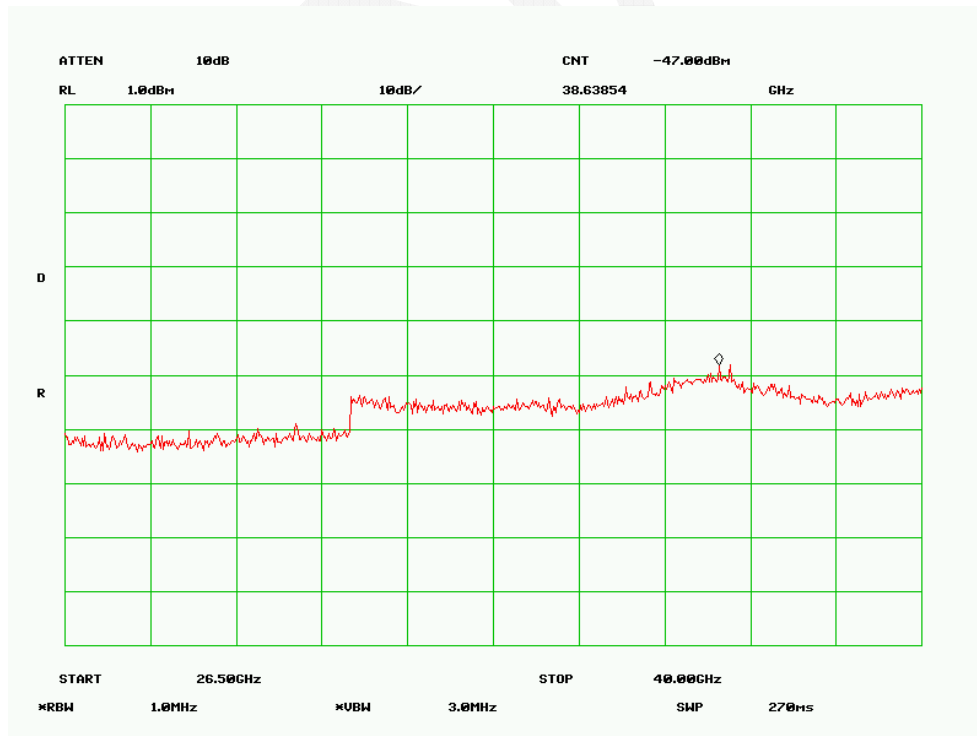
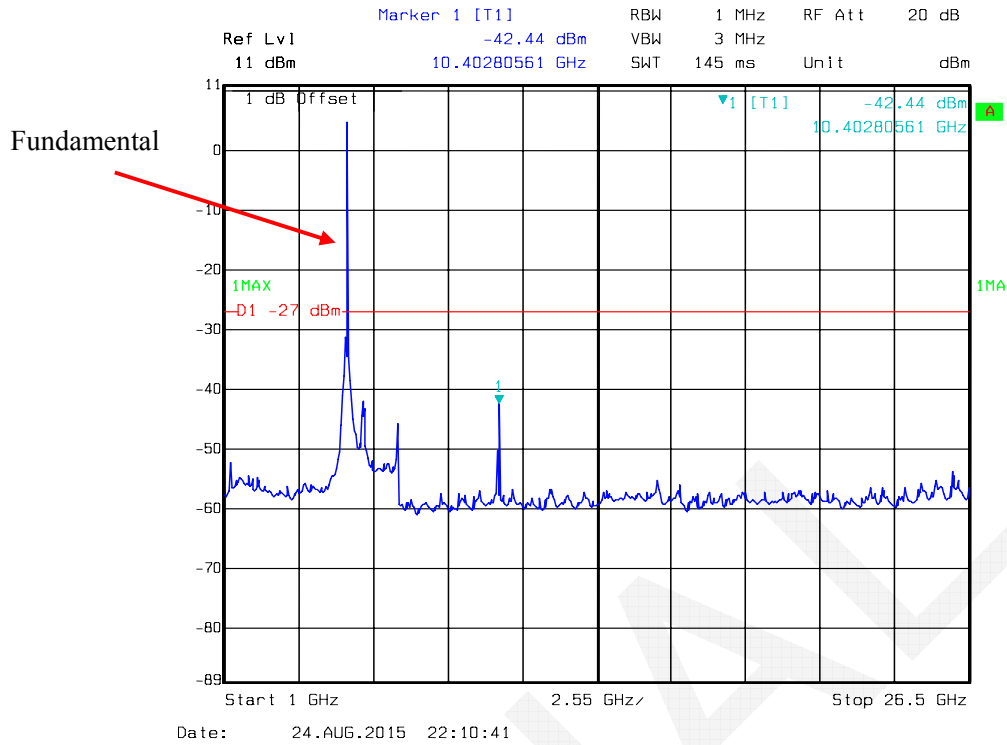




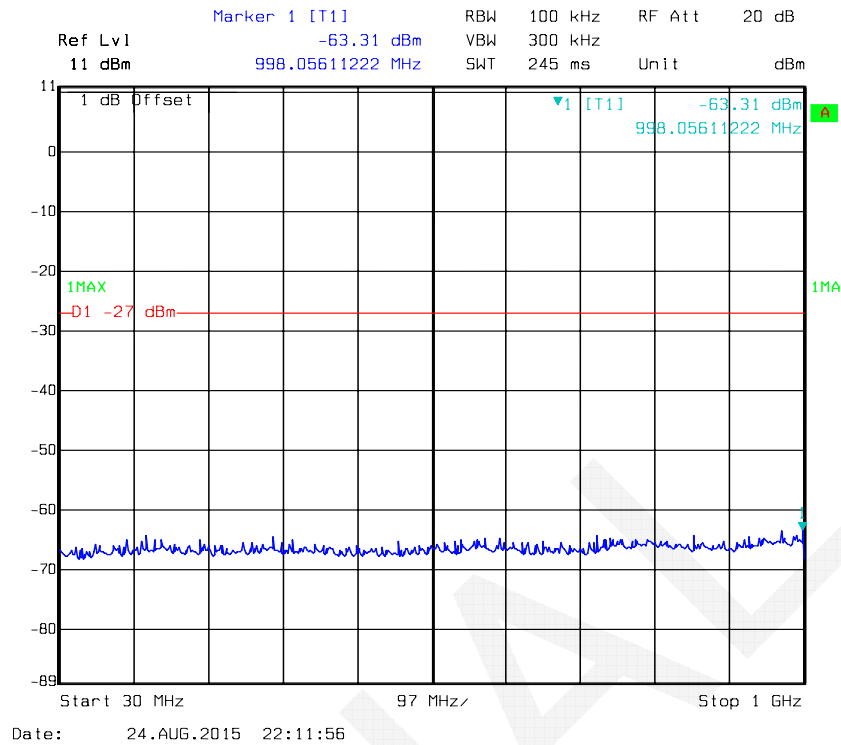
802.11a Middle Channel 30MHz -1GHz



802.11a Middle Channel 1GHz-26.5GHz

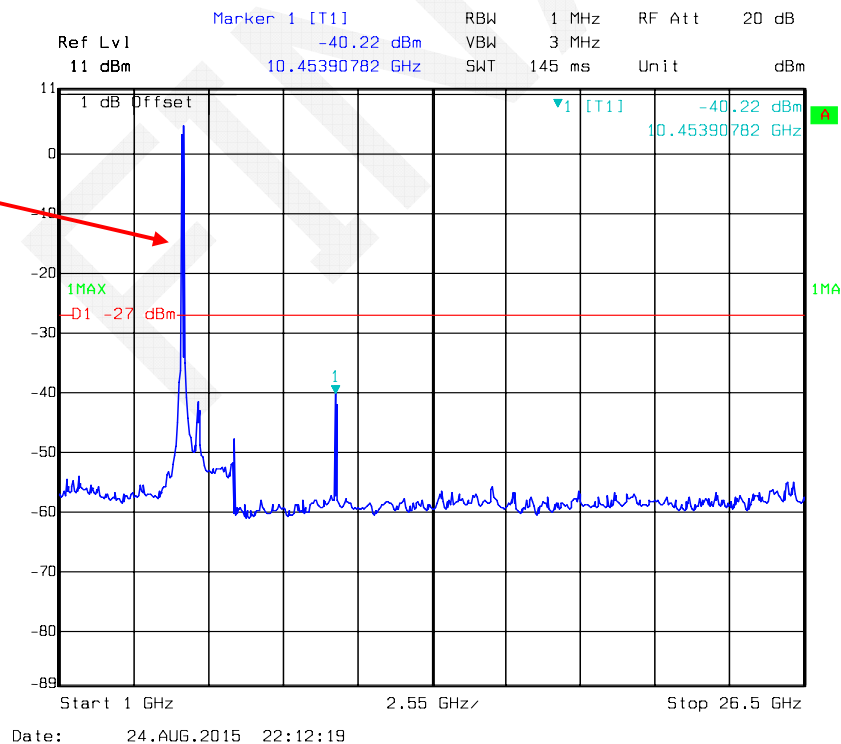


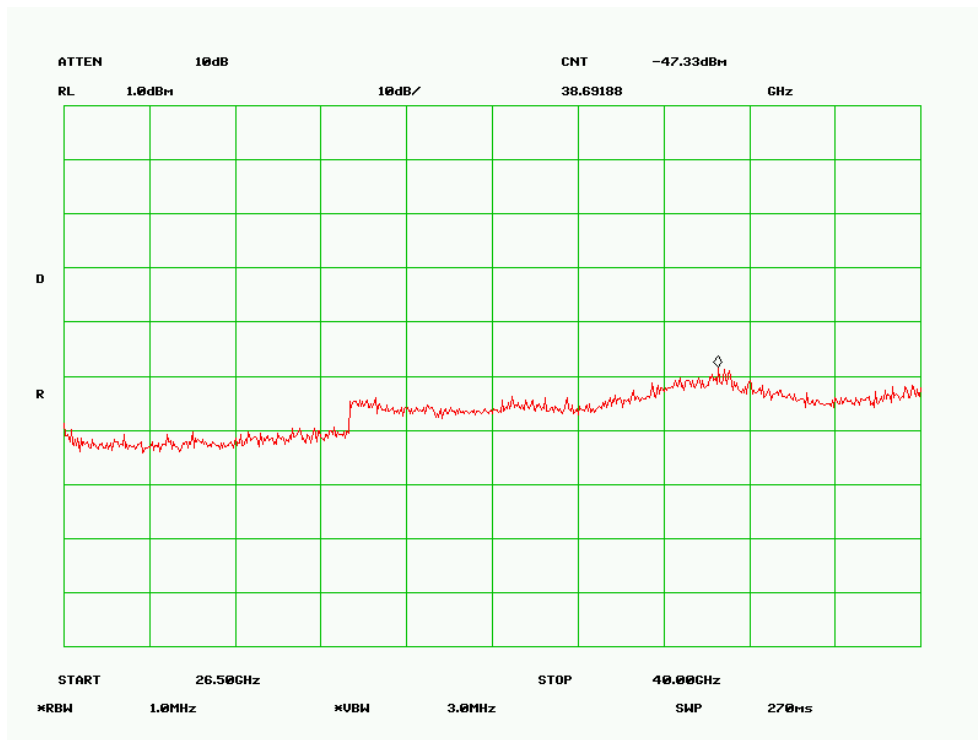
802.11a High Channel 30MHz-1GHz



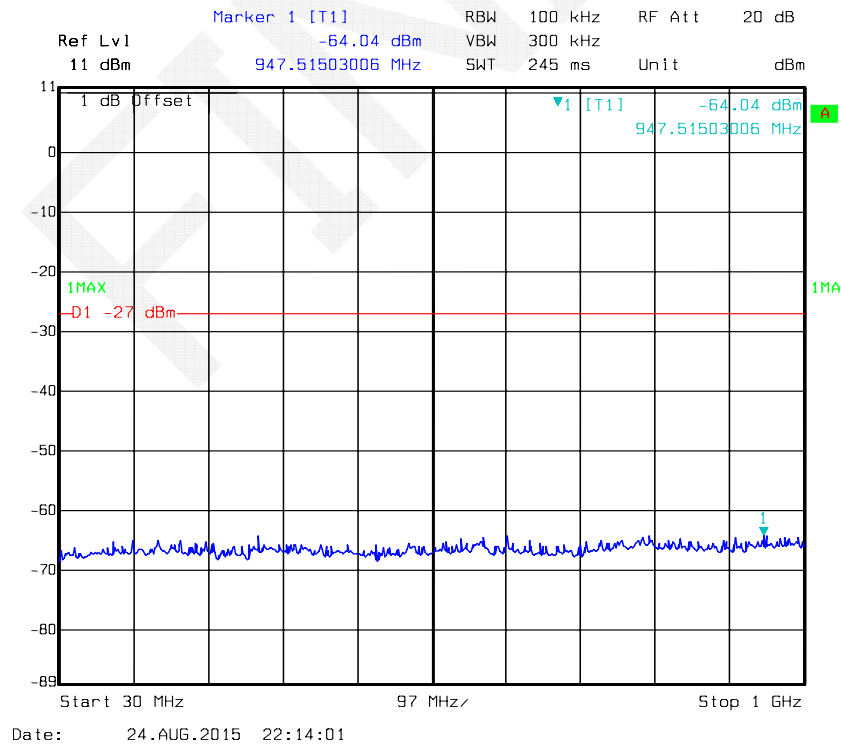
802.11a High Channel 1GHz-26.5GHz

Fundamental

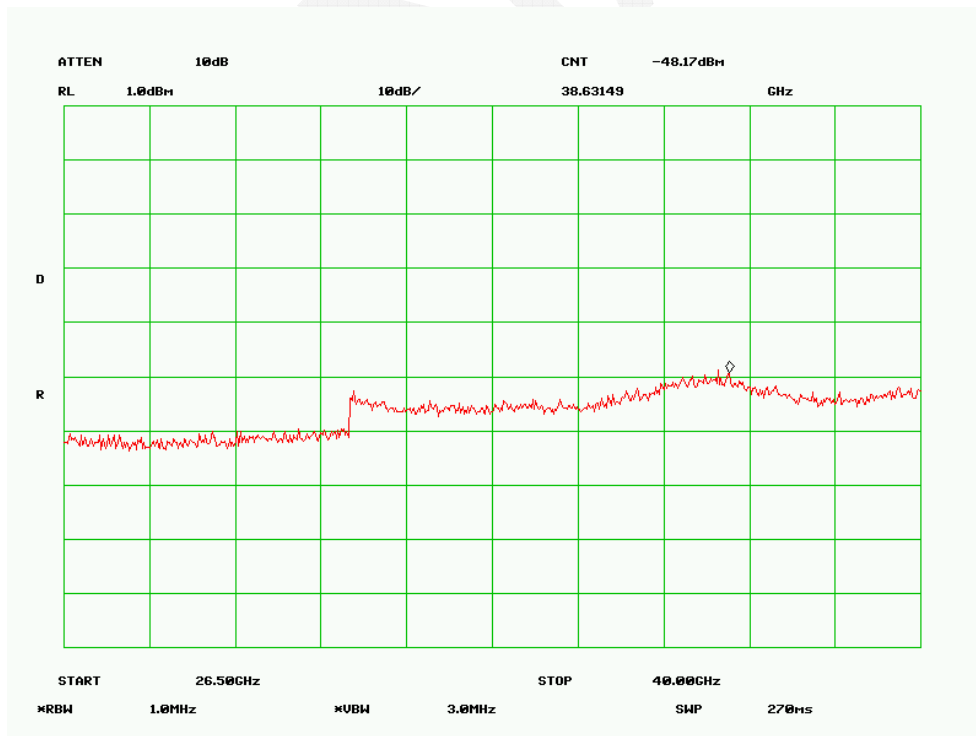
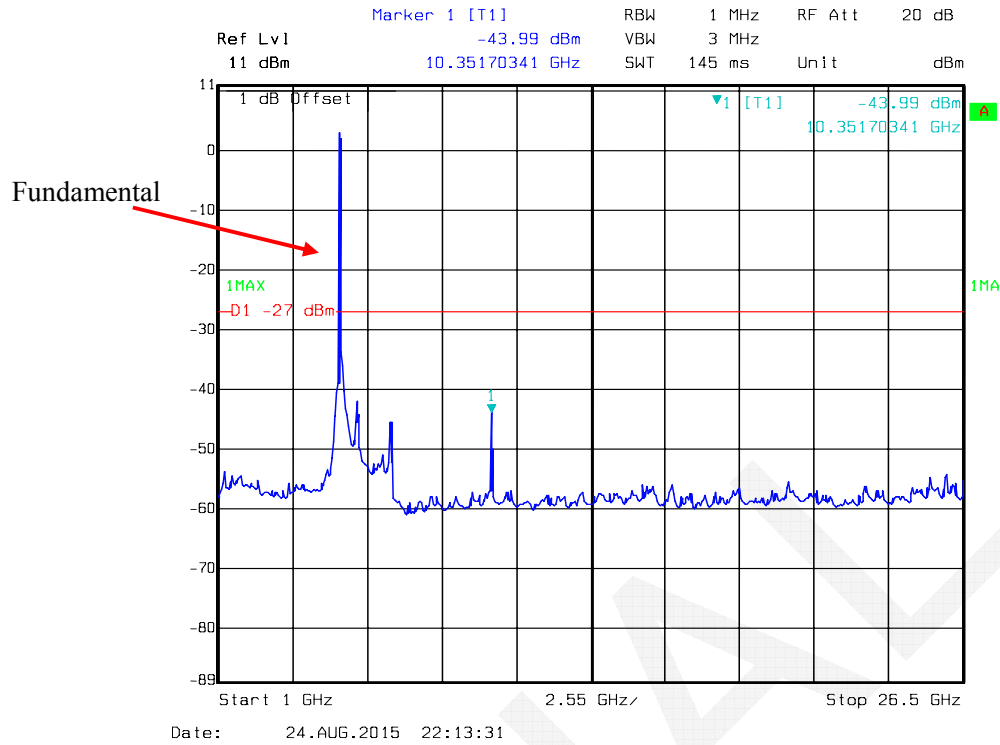




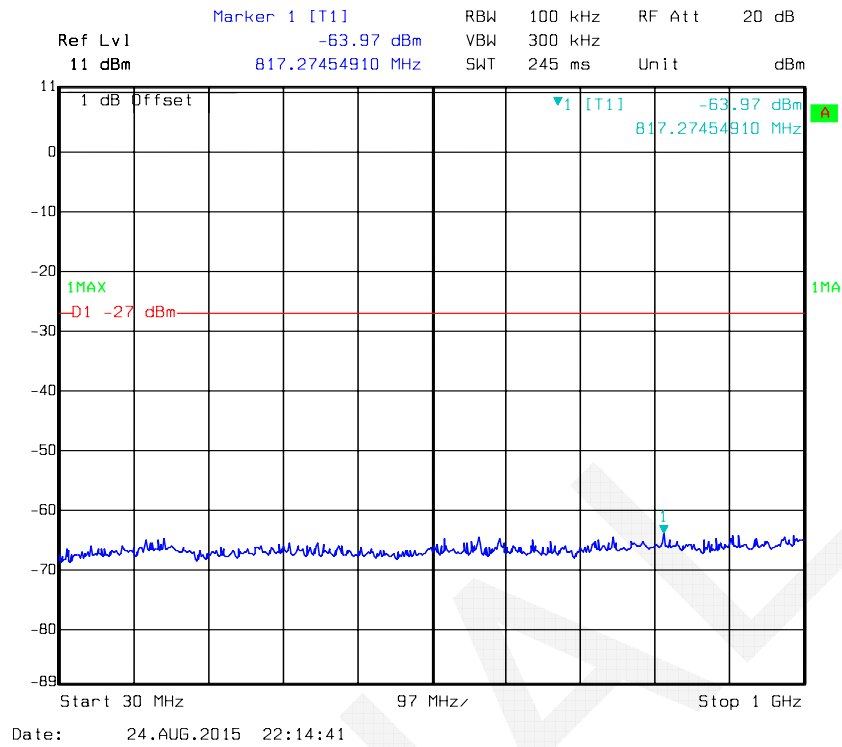
802.11n ht20 Low Channel 30MHz-1GHz



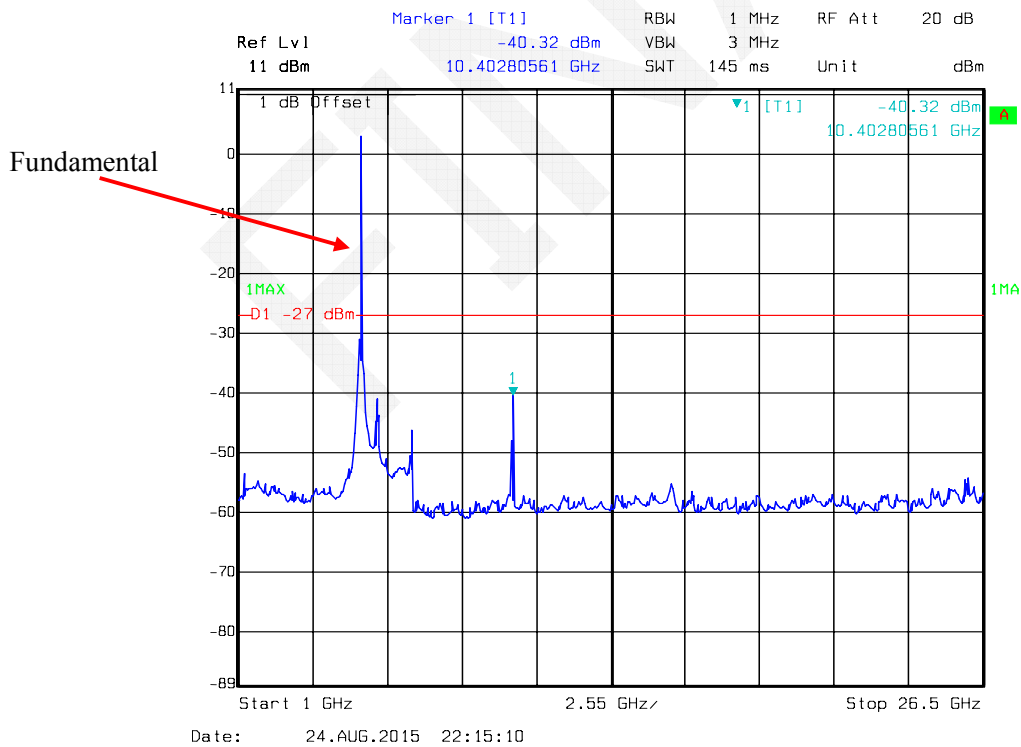
802.11n ht20 Low Channel 1GHz-26.5GHz

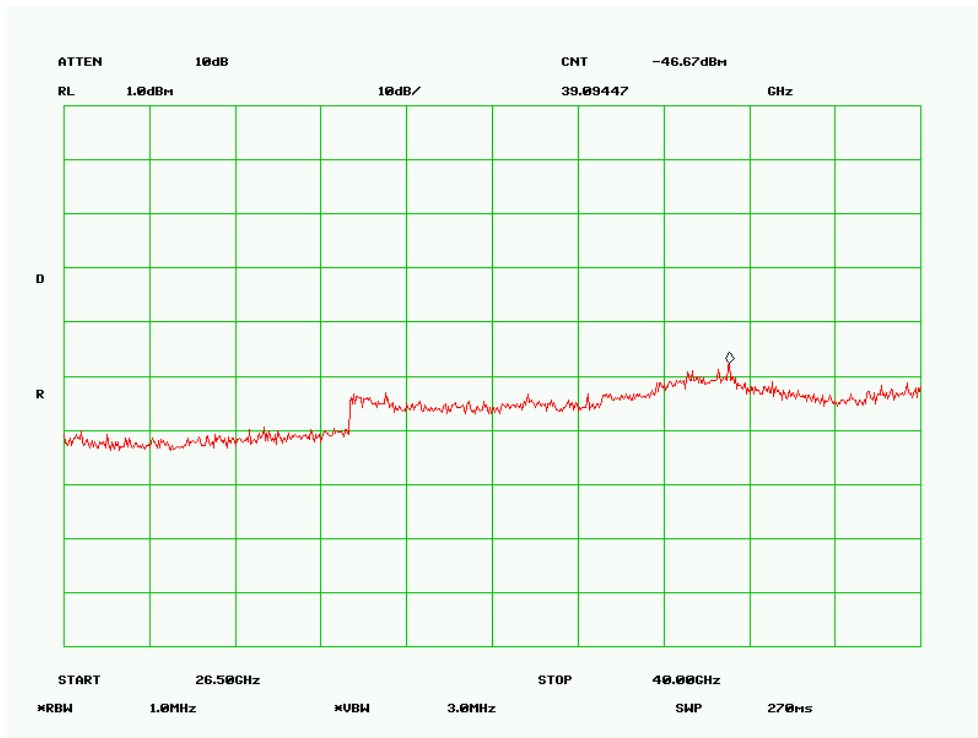


802.11n ht20 Middle Channel 30MHz -1GHz

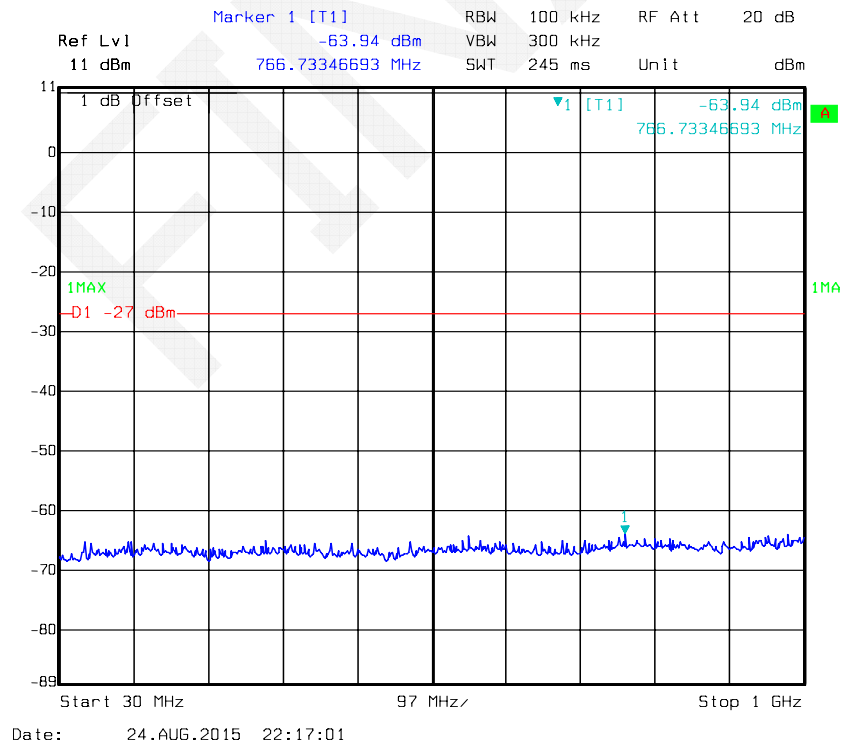


802.11n ht20 Middle Channel 1GHz-26.5GHz

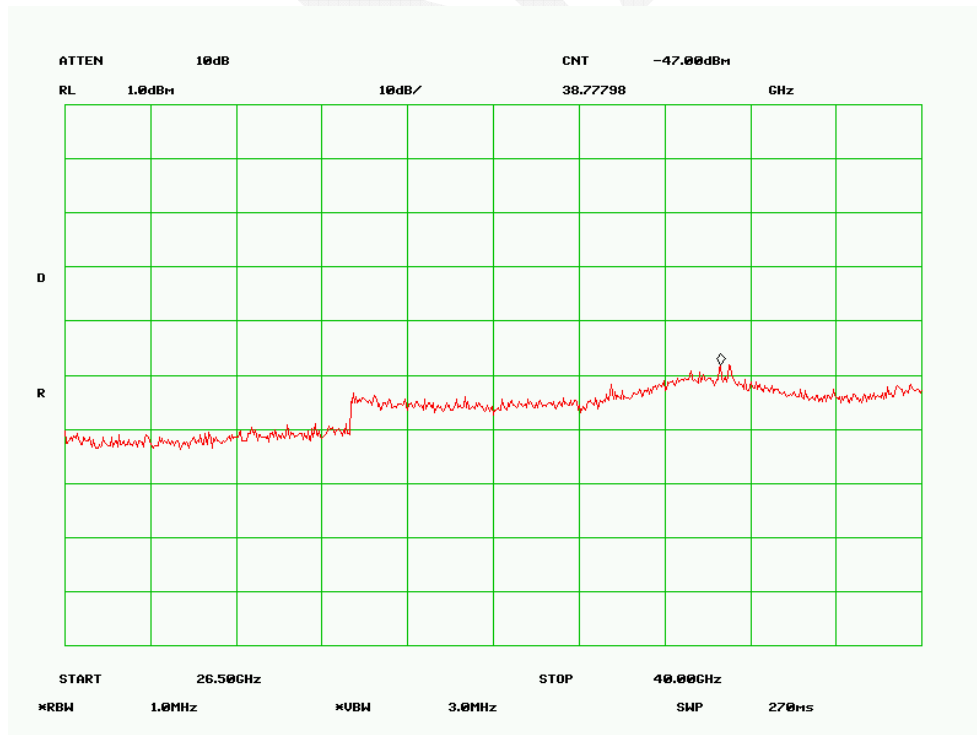
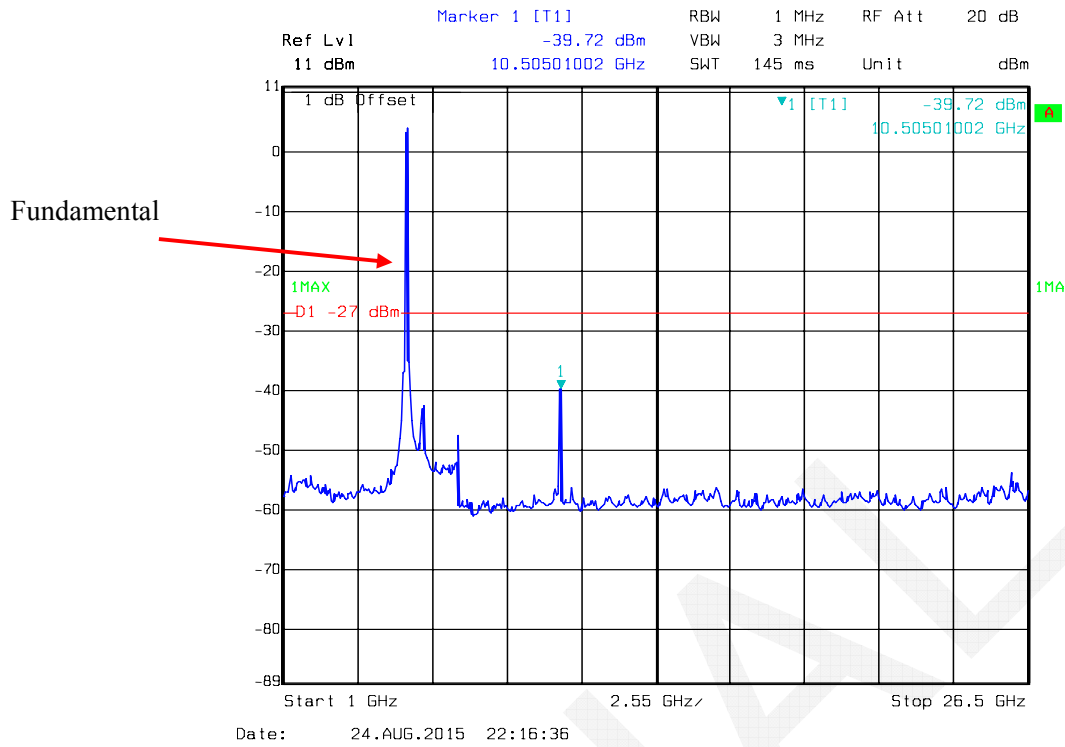




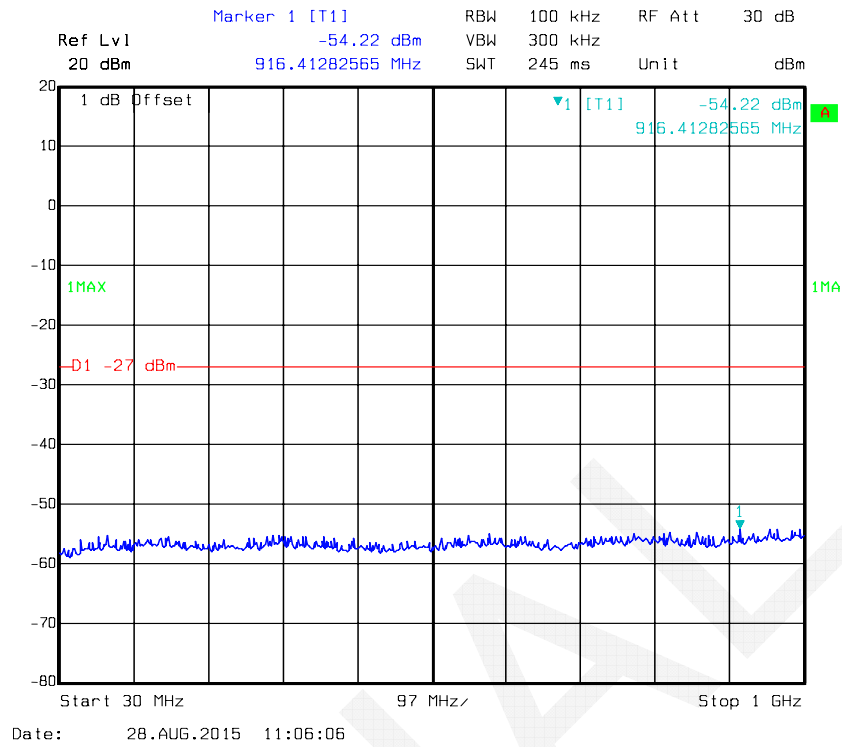
802.11n ht20 High Channel 30MHz-1GHz



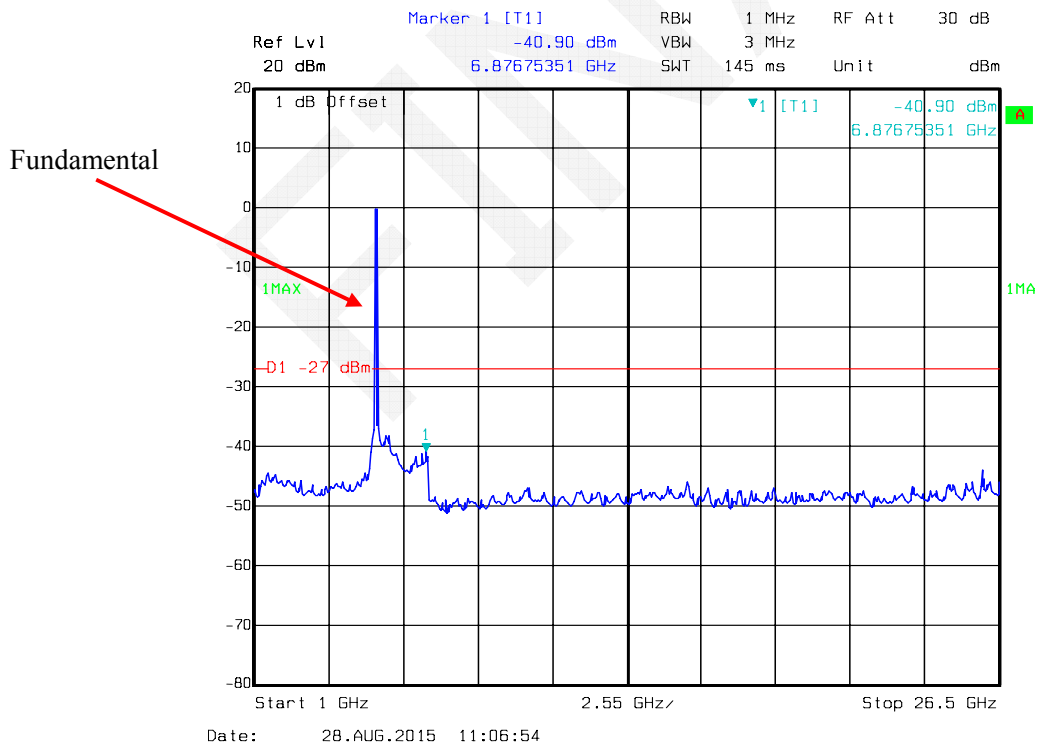
802.11n ht20 High Channel 1GHz-26.5GHz

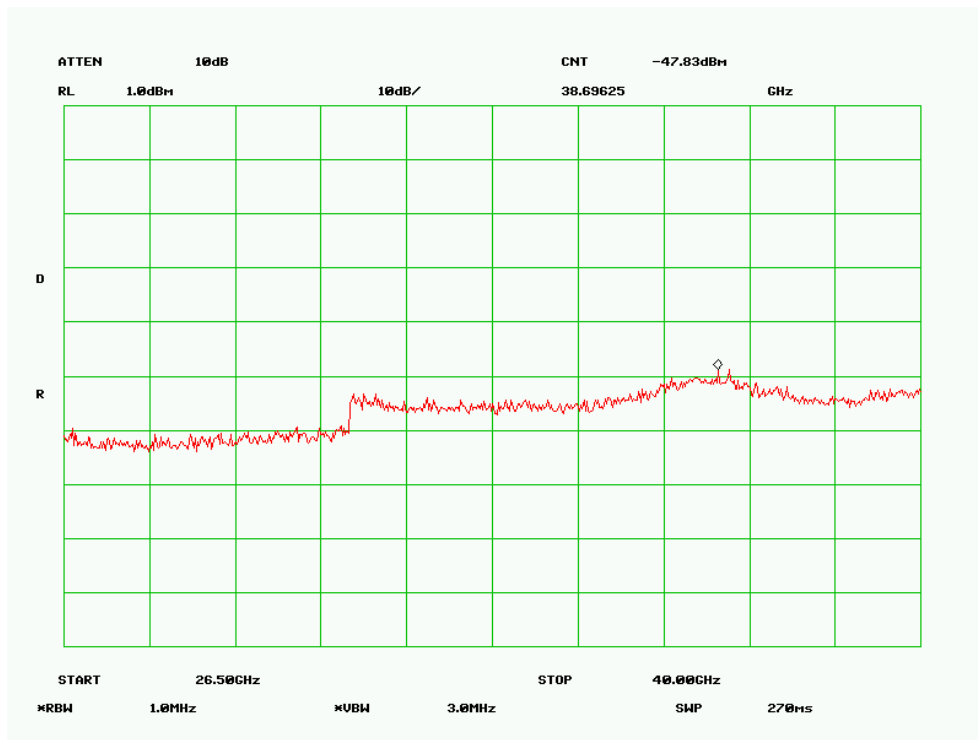


802.11n ht40 Low Channel 30MHz-1GHz

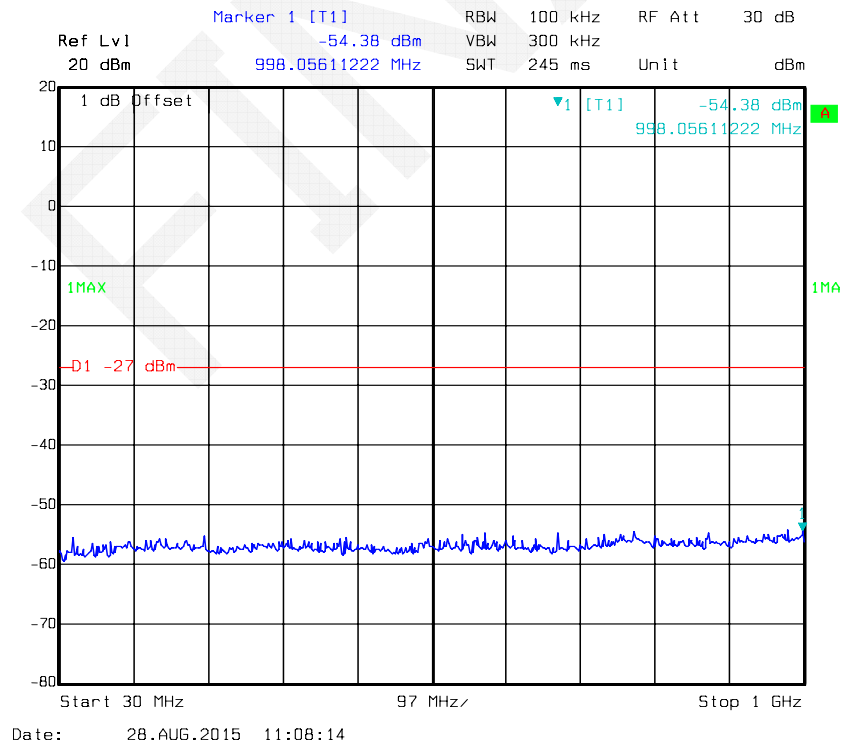


802.11n ht40 Low Channel 1GHz-26.5GHz

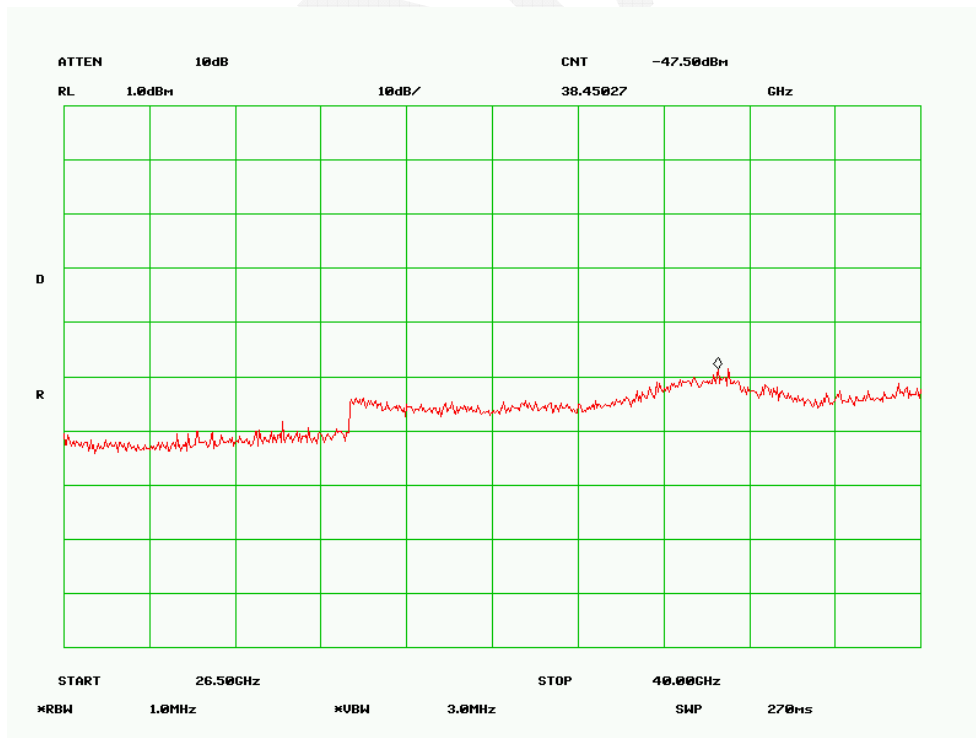
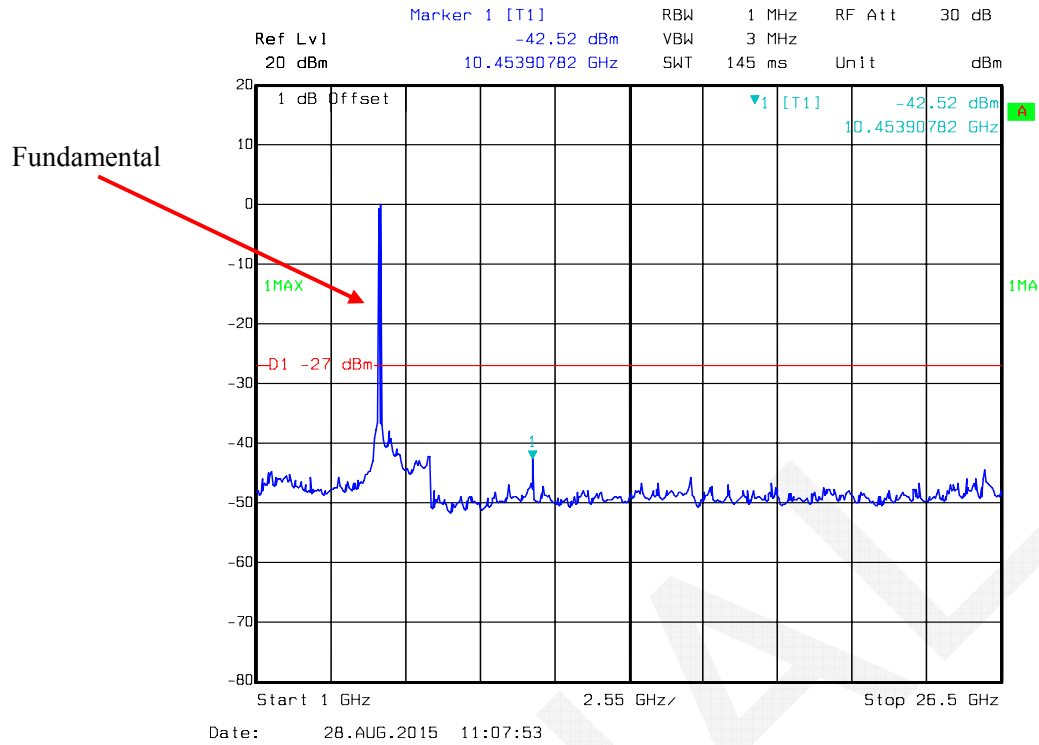




802.11n ht40 High Channel 30MHz-1GHz

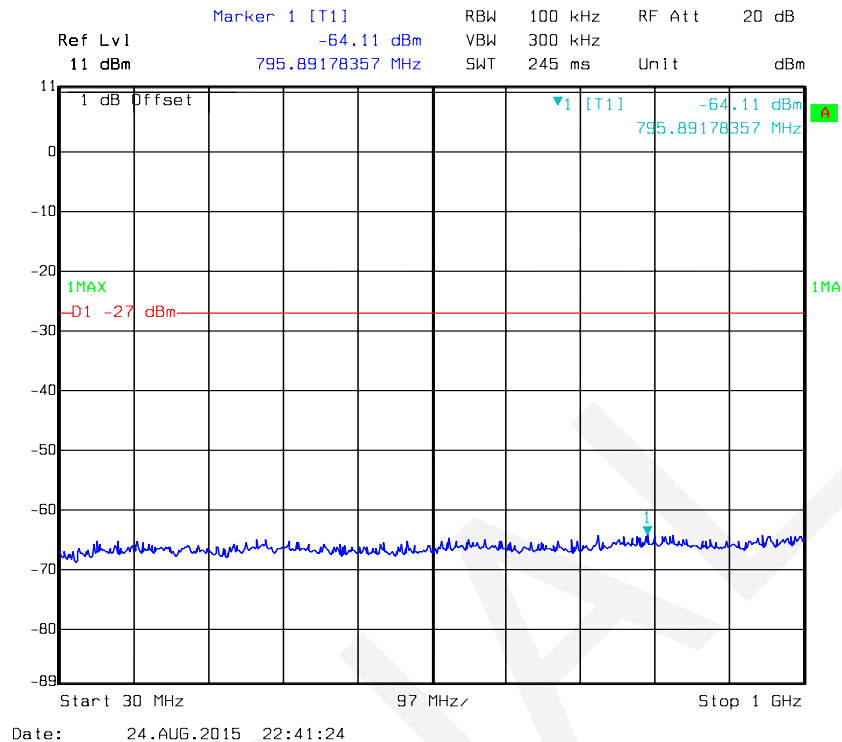


802.11n ht40 High Channel 1GHz-26.5GHz

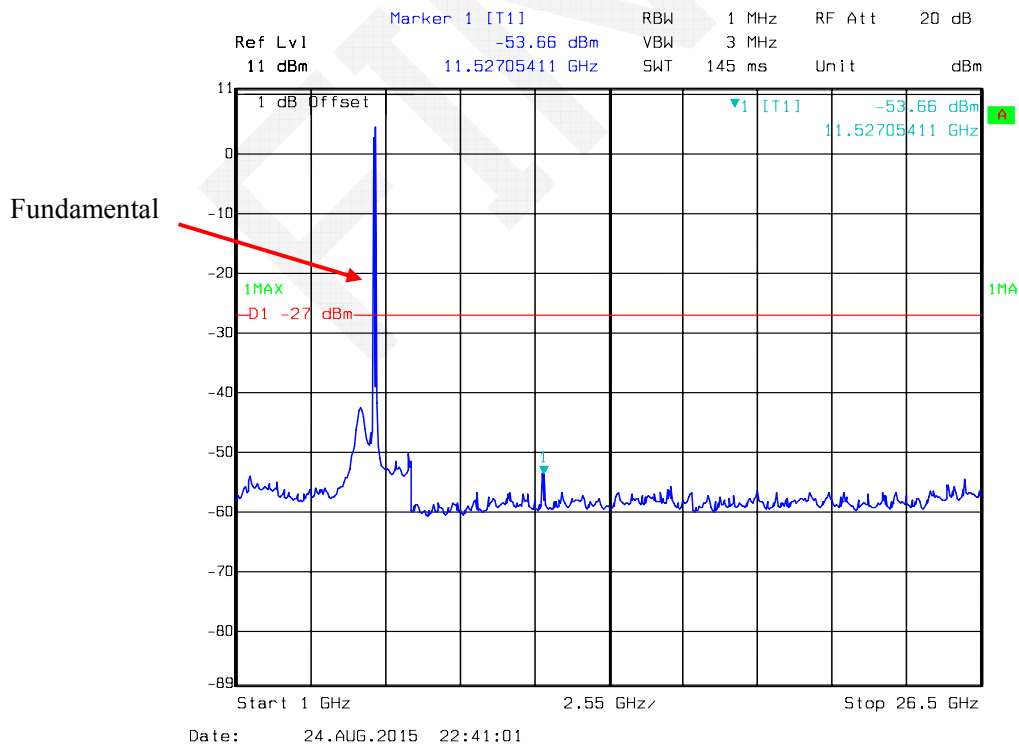


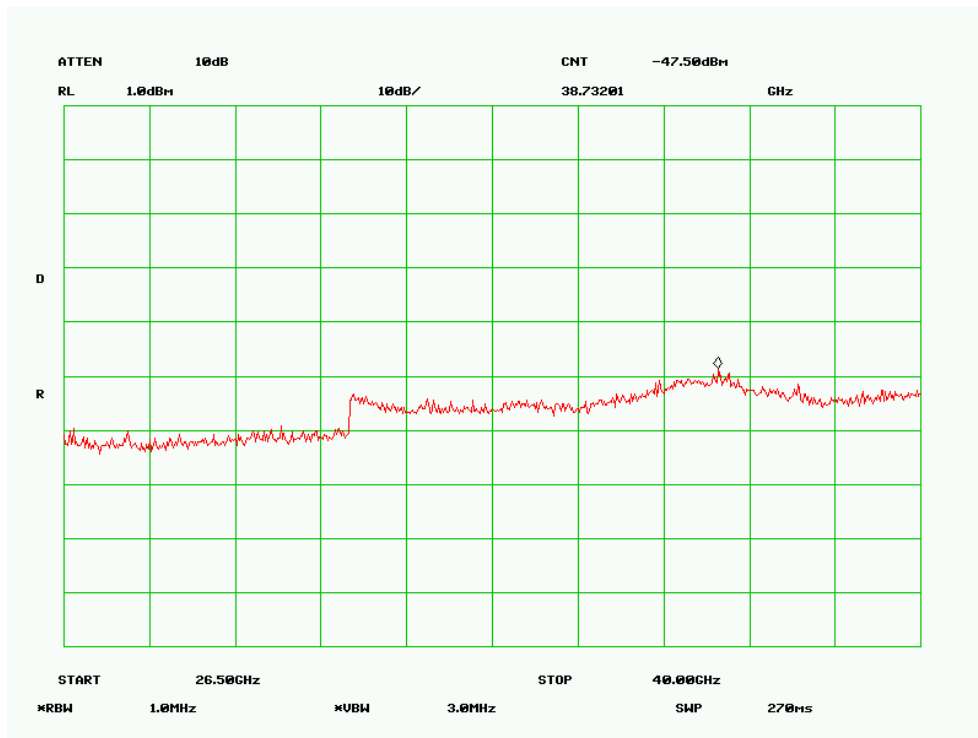
5725MHz-5850MHz:

802.11a Low Channel 30MHz-1GHz

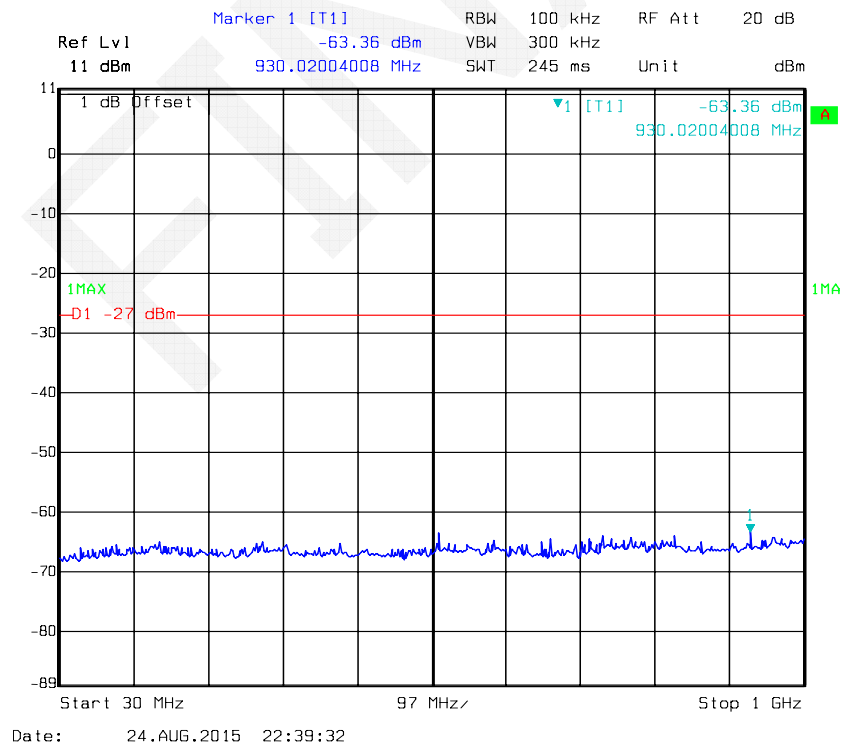


802.11a Low Channel 1GHz-26.5GHz

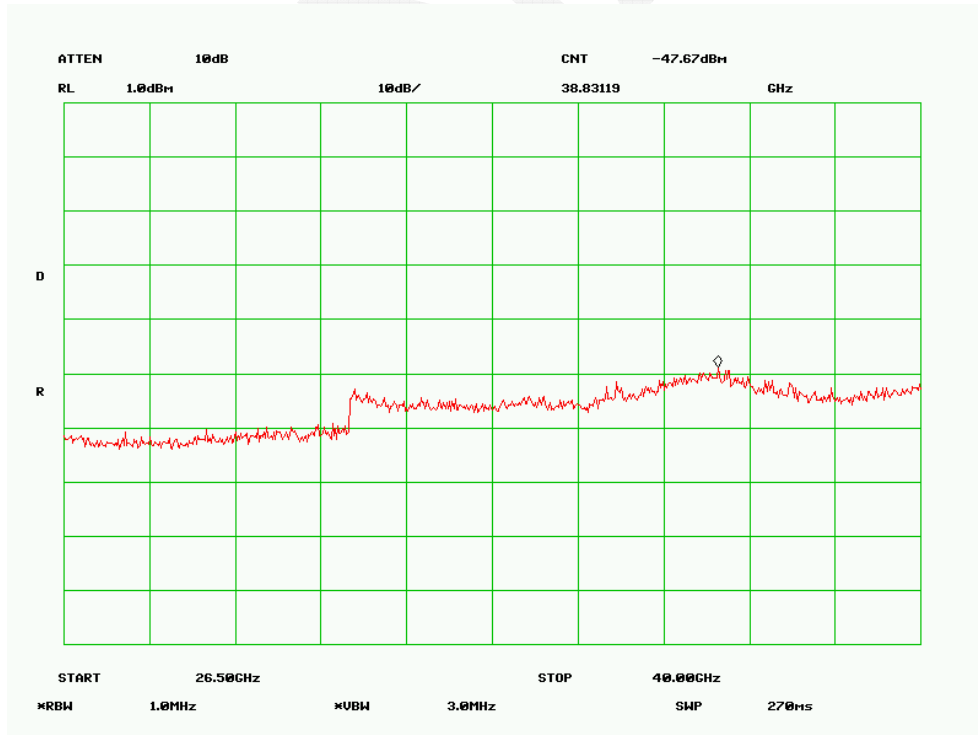
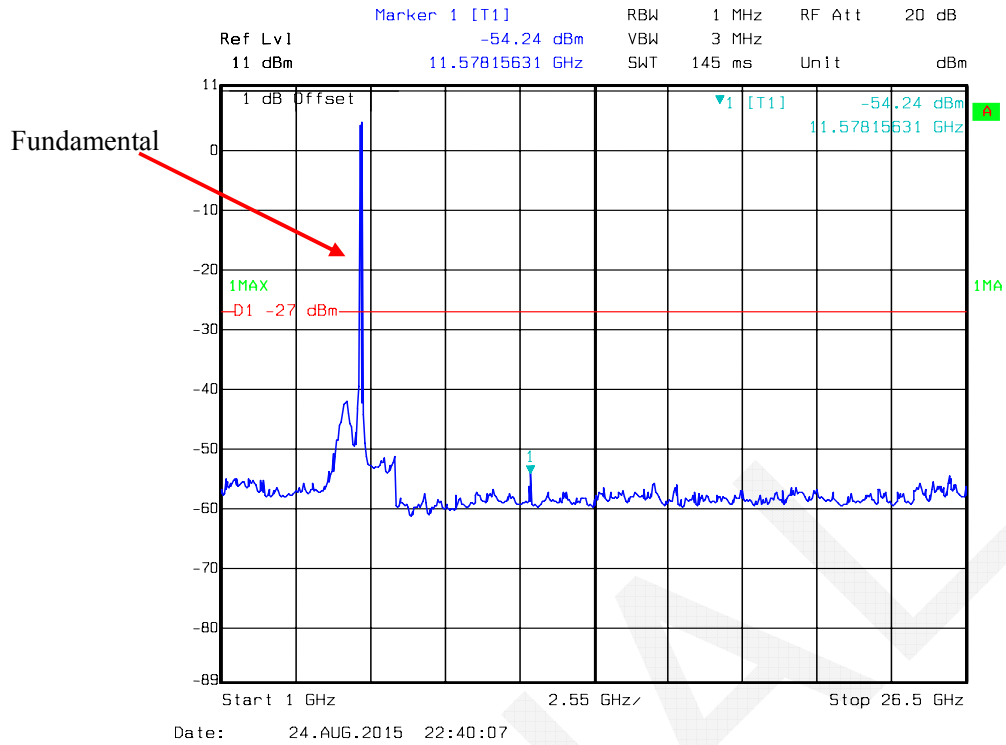




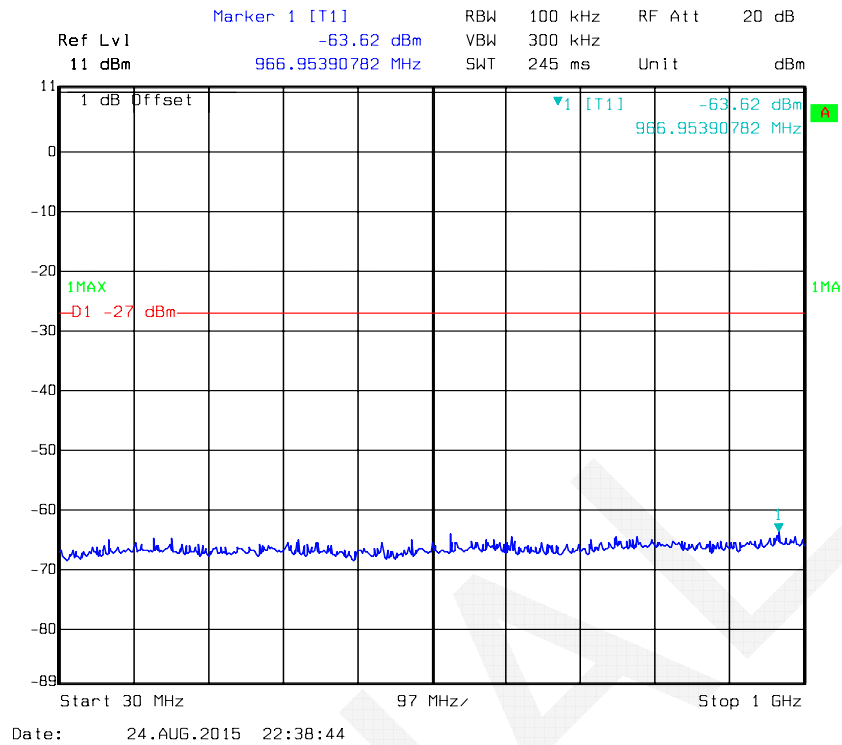
802.11a Middle Channel 30MHz -1GHz



802.11a Middle Channel 1GHz-26.5GHz

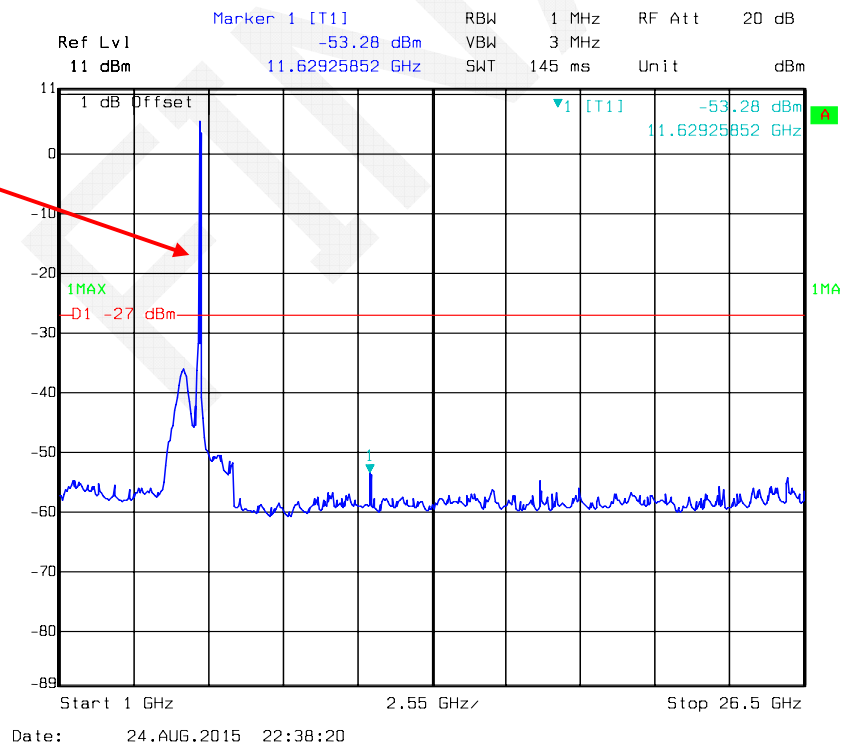


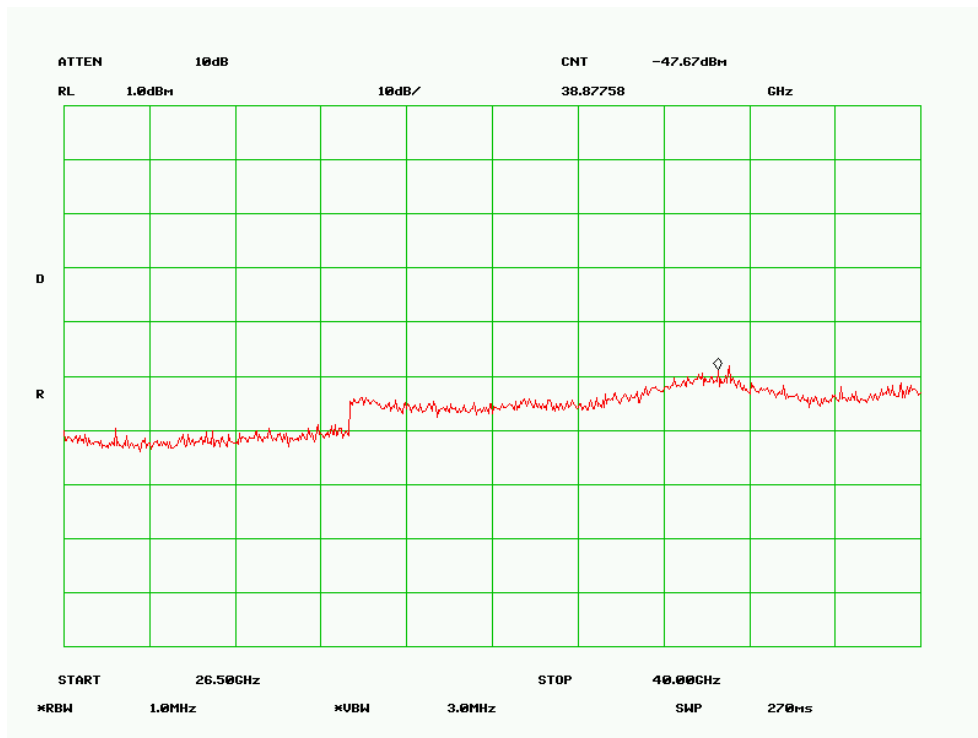
802.11a High Channel 30MHz-1GHz



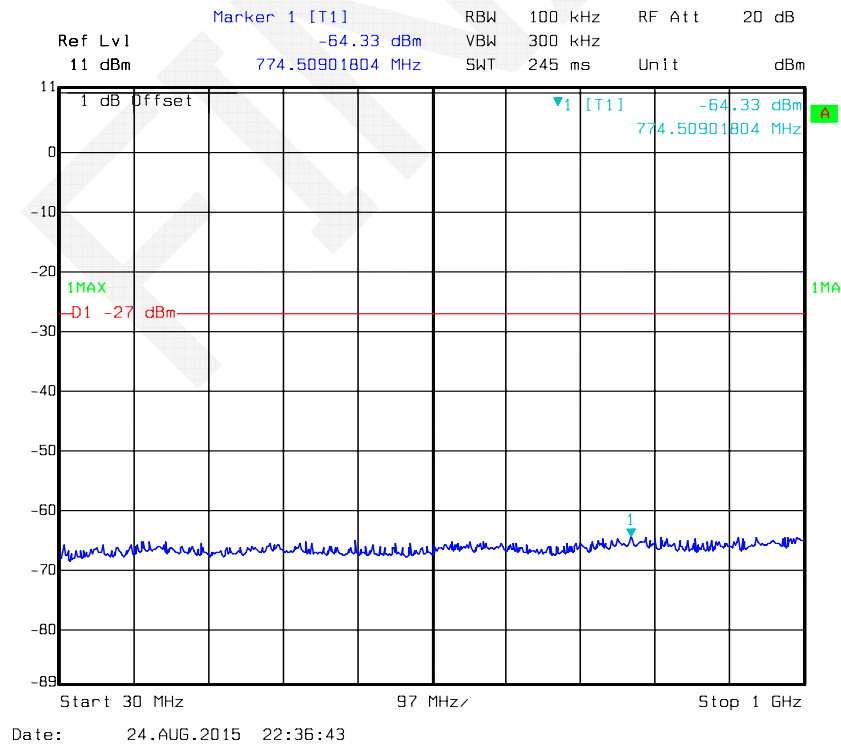
802.11a High Channel 1GHz-26.5GHz

Fundamental

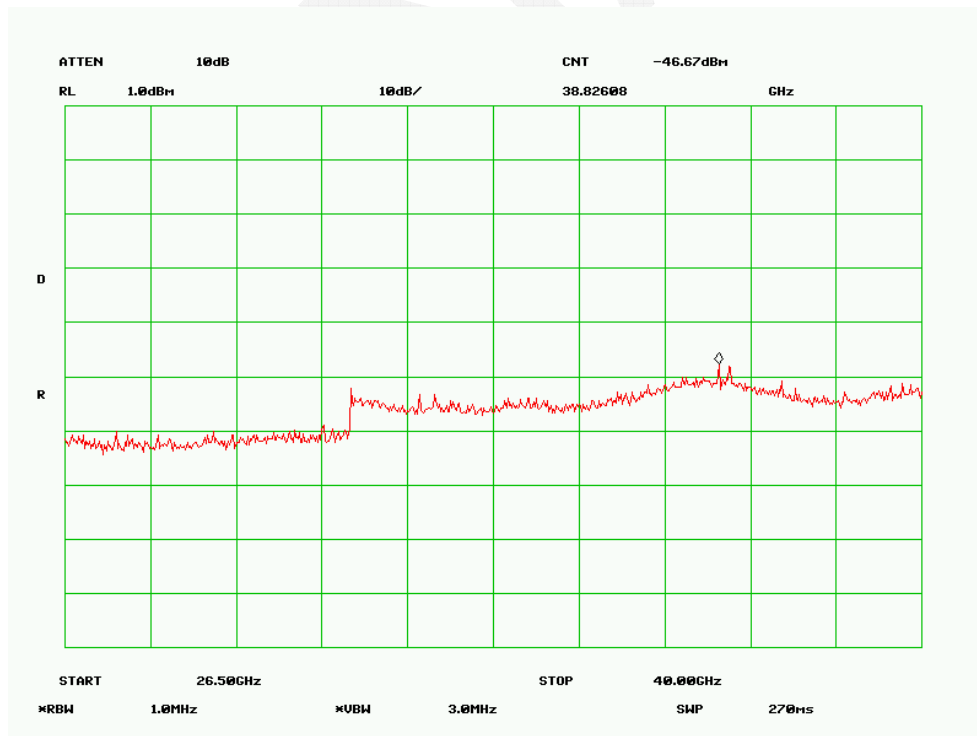
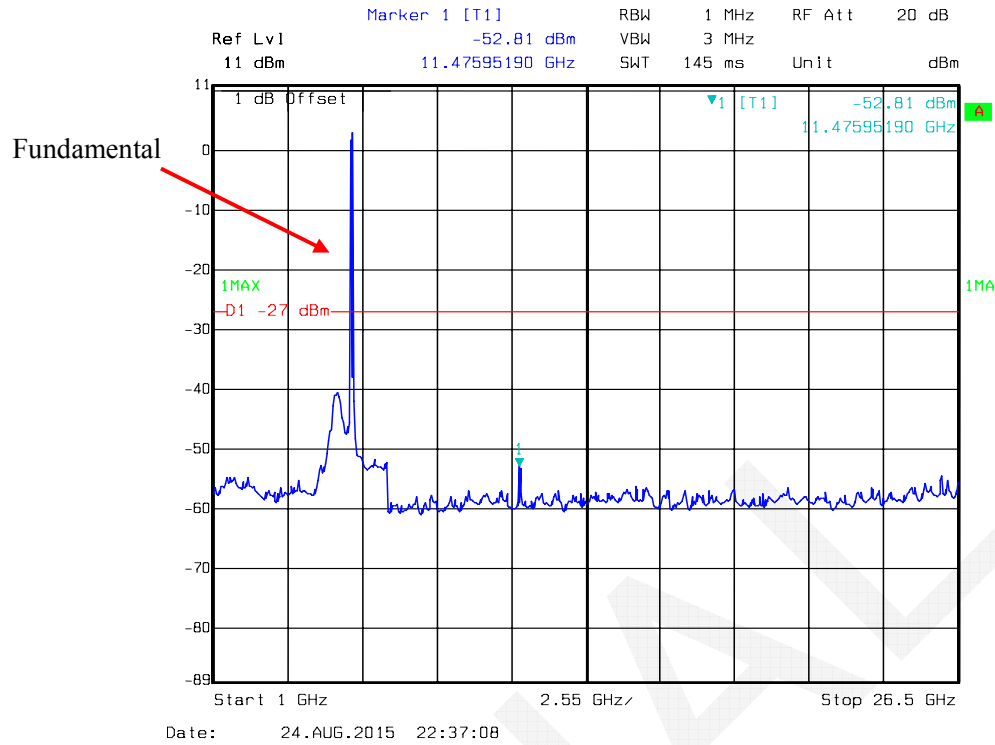




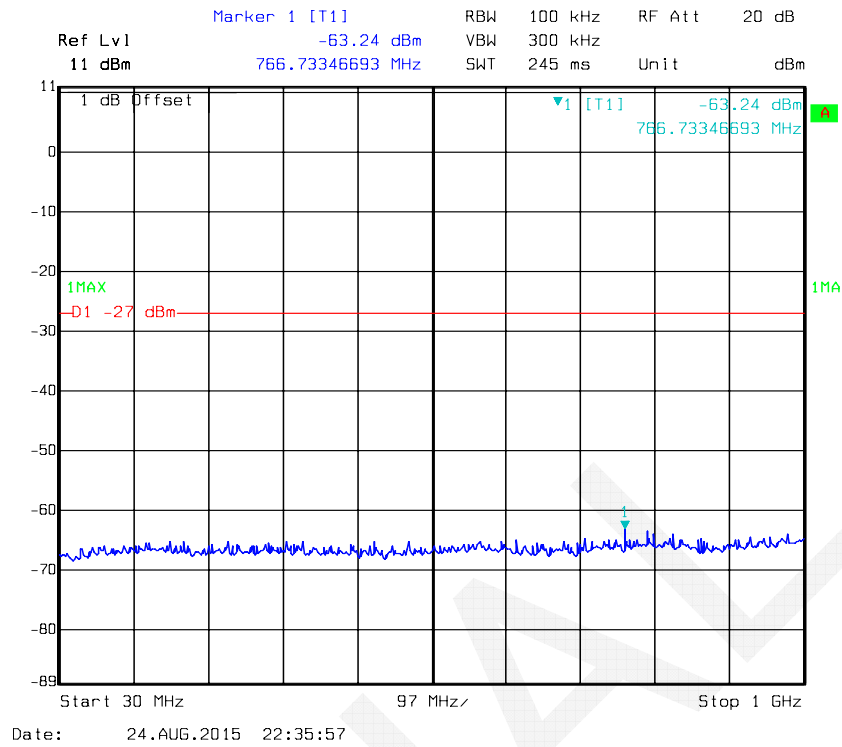
802.11n ht20 Low Channel 30MHz-1GHz



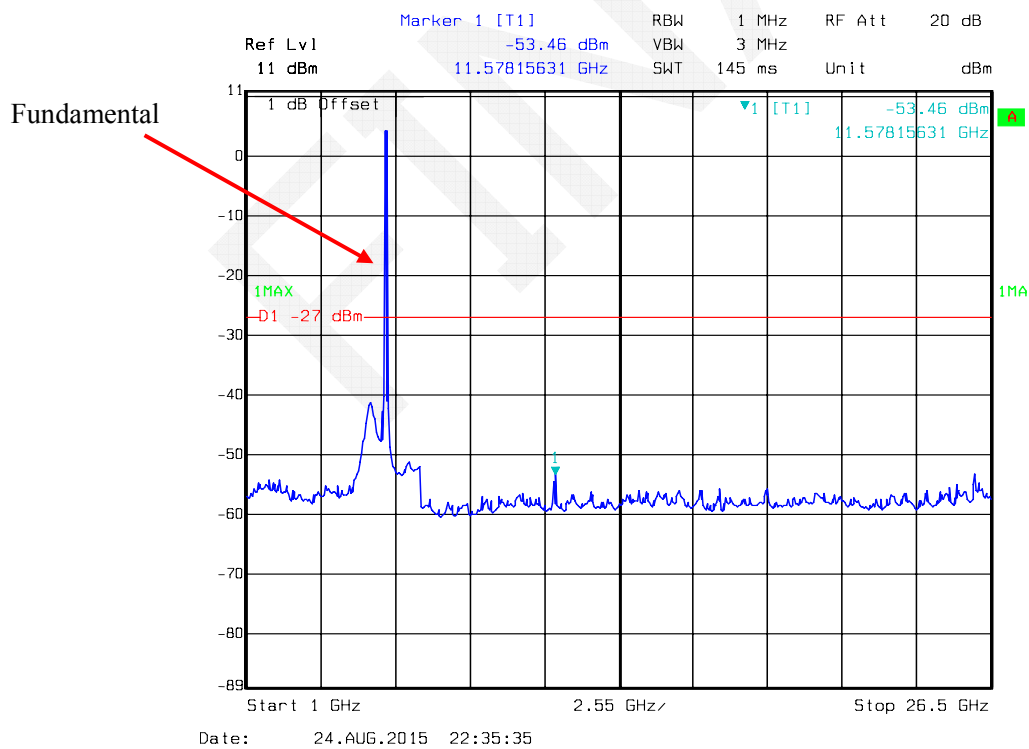
802.11n ht20 Low Channel 1GHz-26.5GHz

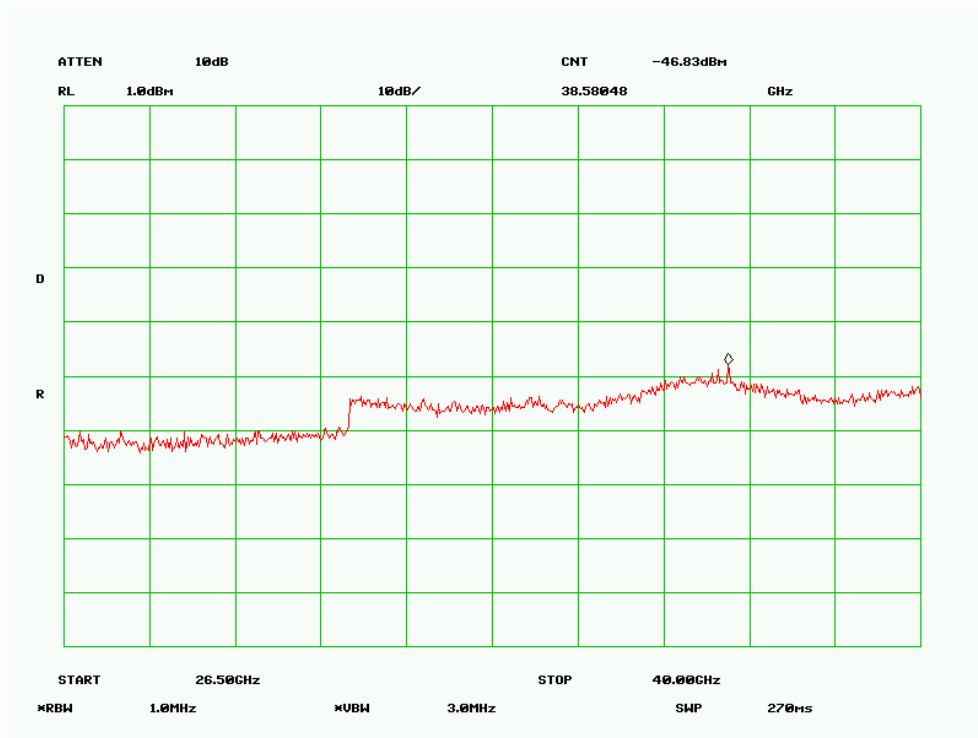


802.11n ht20 Middle Channel 30MHz -1GHz

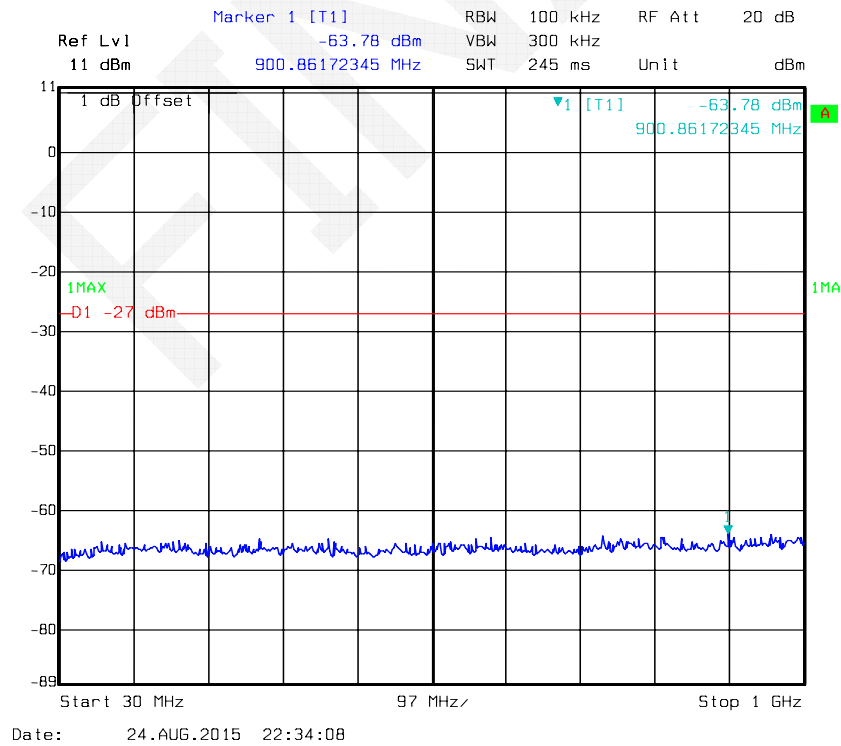


802.11n ht20 Middle Channel 1GHz-26.5GHz

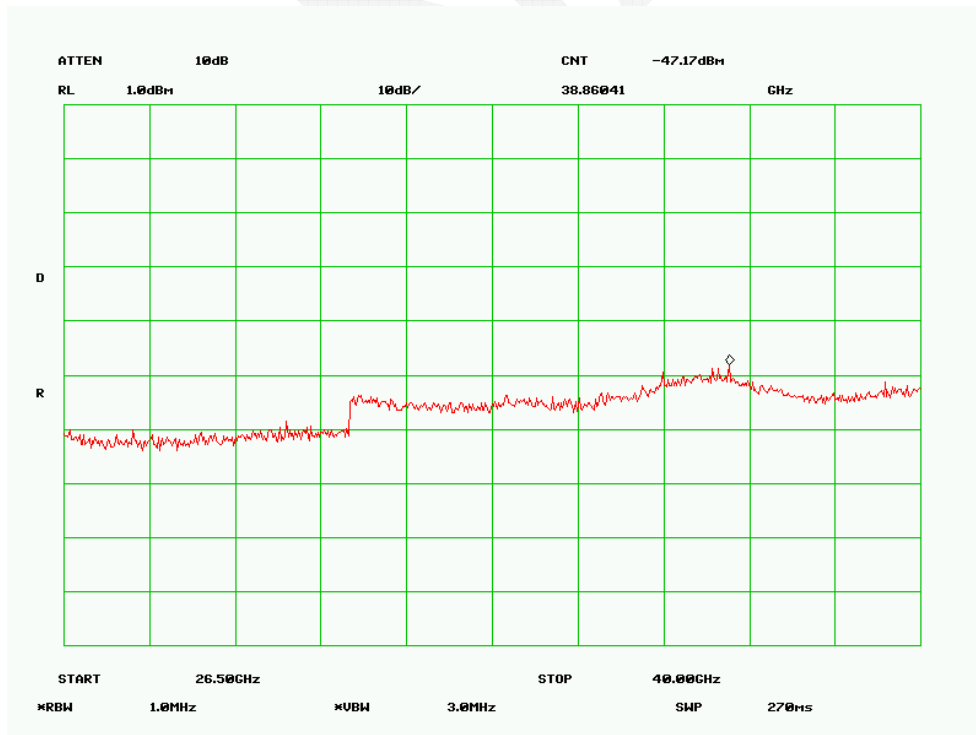
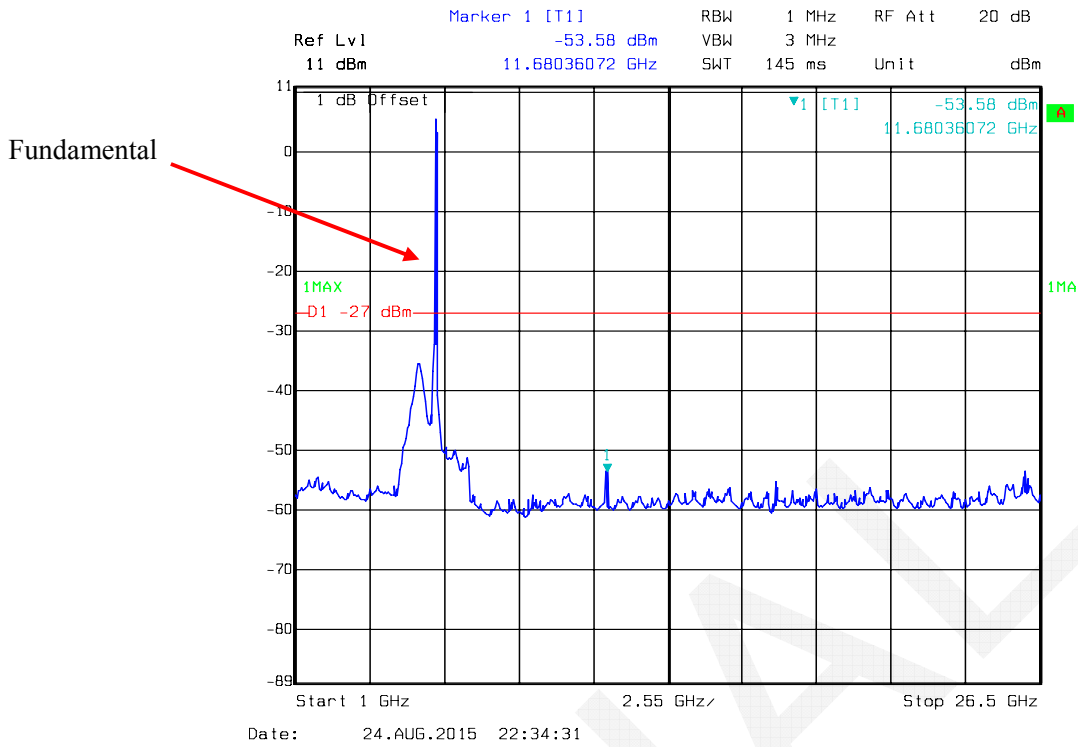




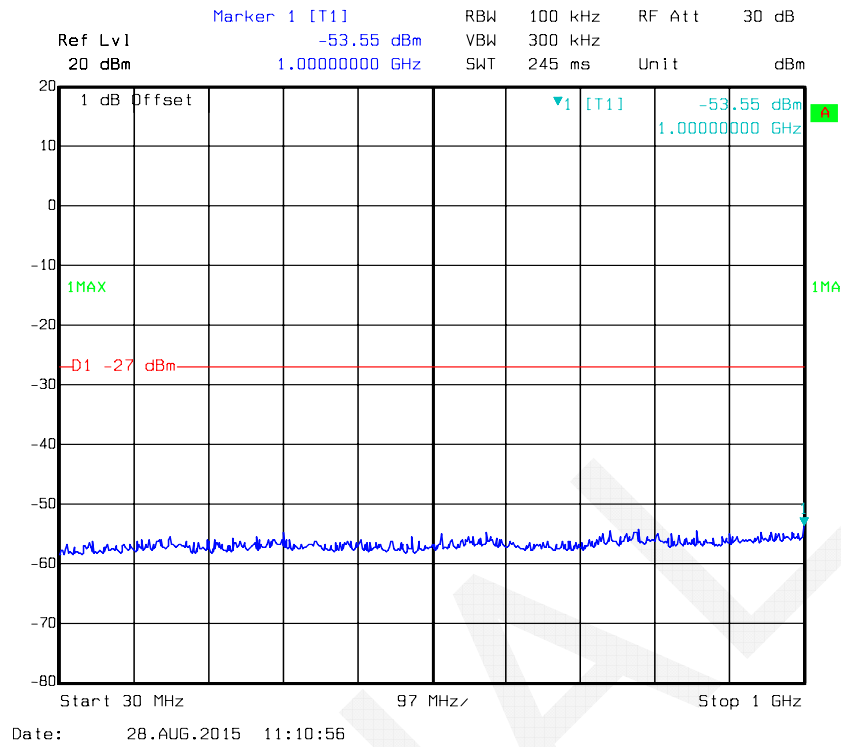
802.11n ht20 High Channel 30MHz-1GHz



802.11n ht20 High Channel 1GHz-26.5GHz

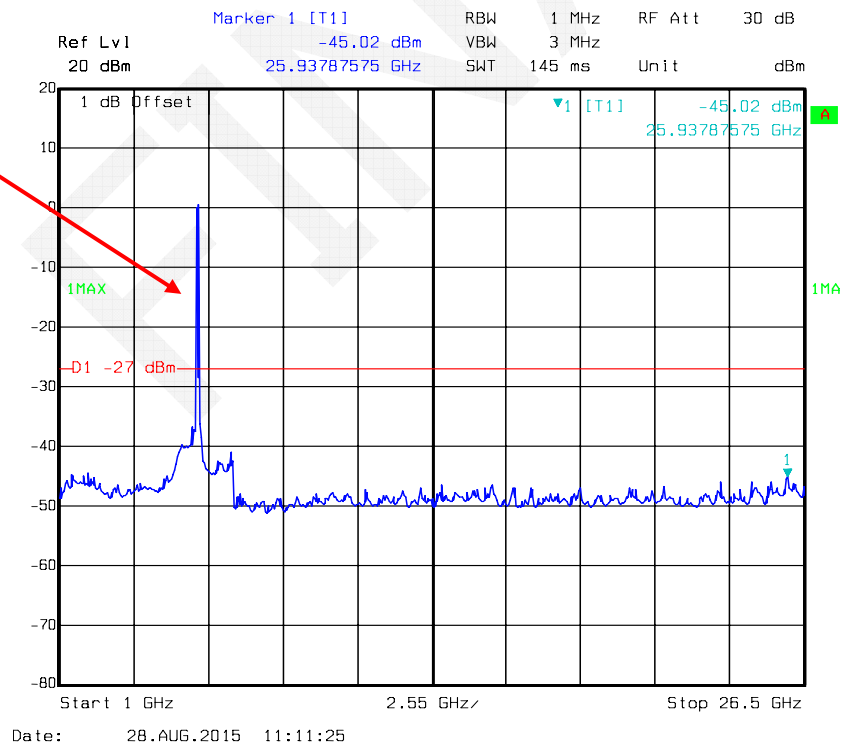


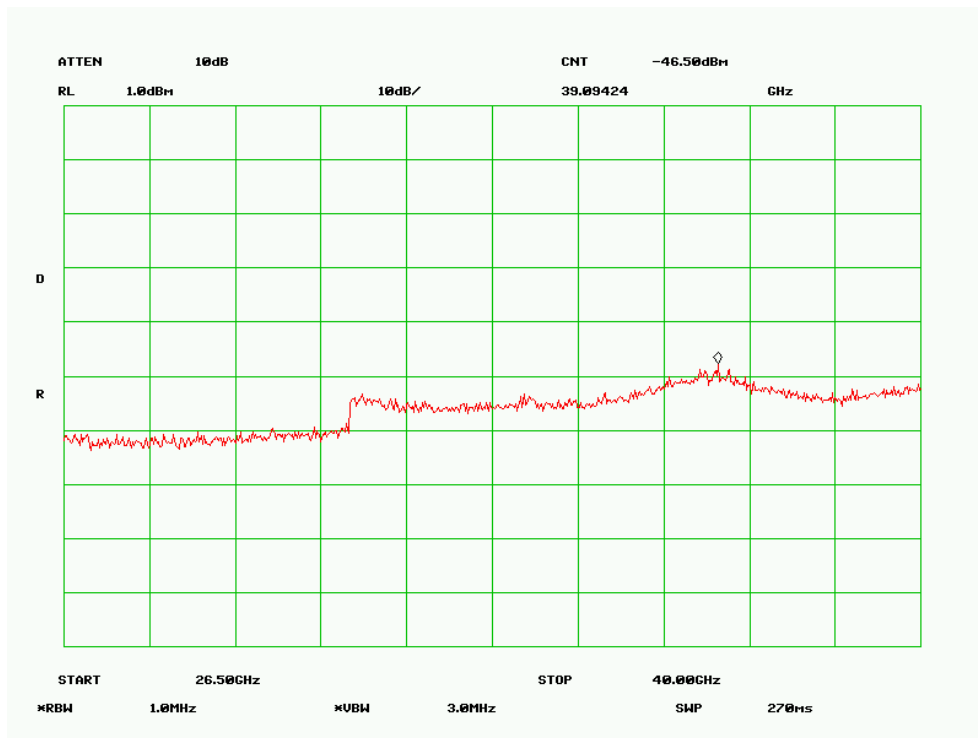
802.11n ht40 Low Channel 30MHz-1GHz



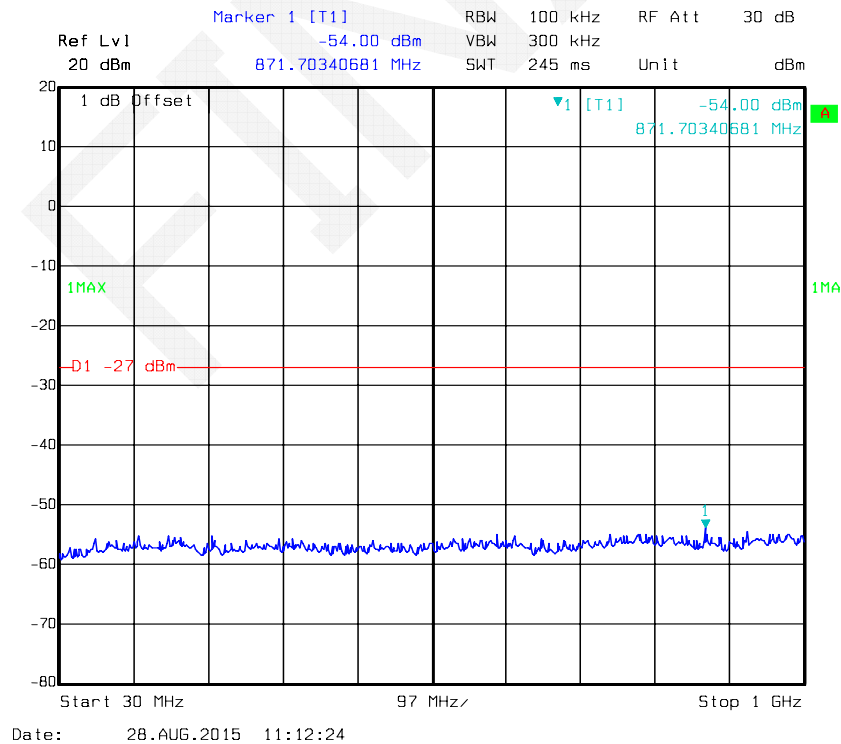
802.11n ht40 Low Channel 1GHz-26.5GHz

Fundamental

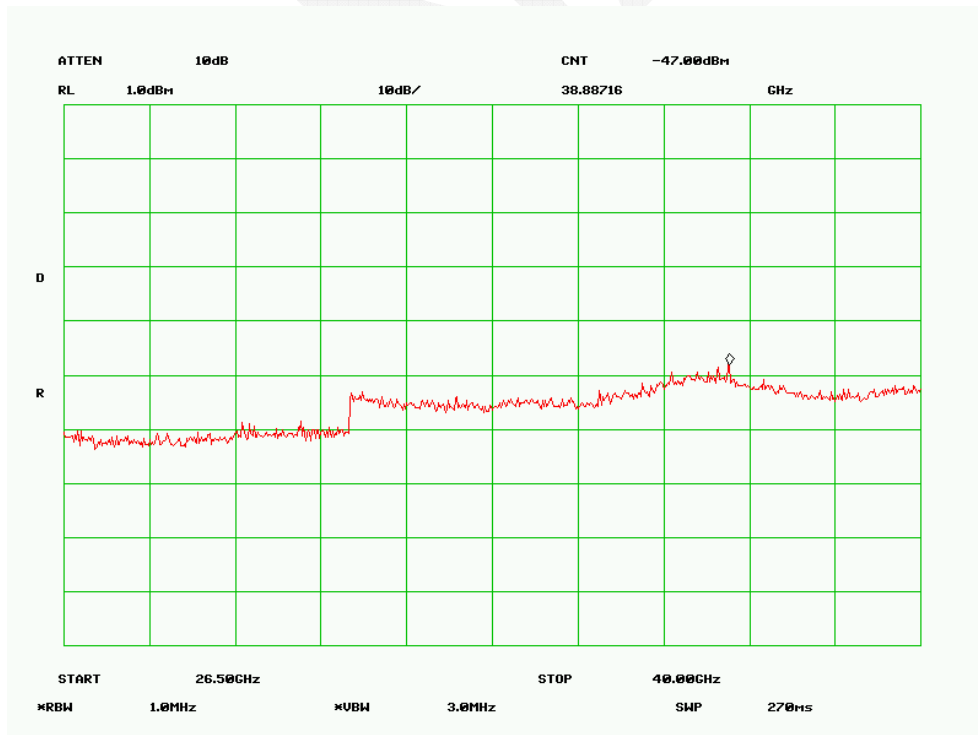
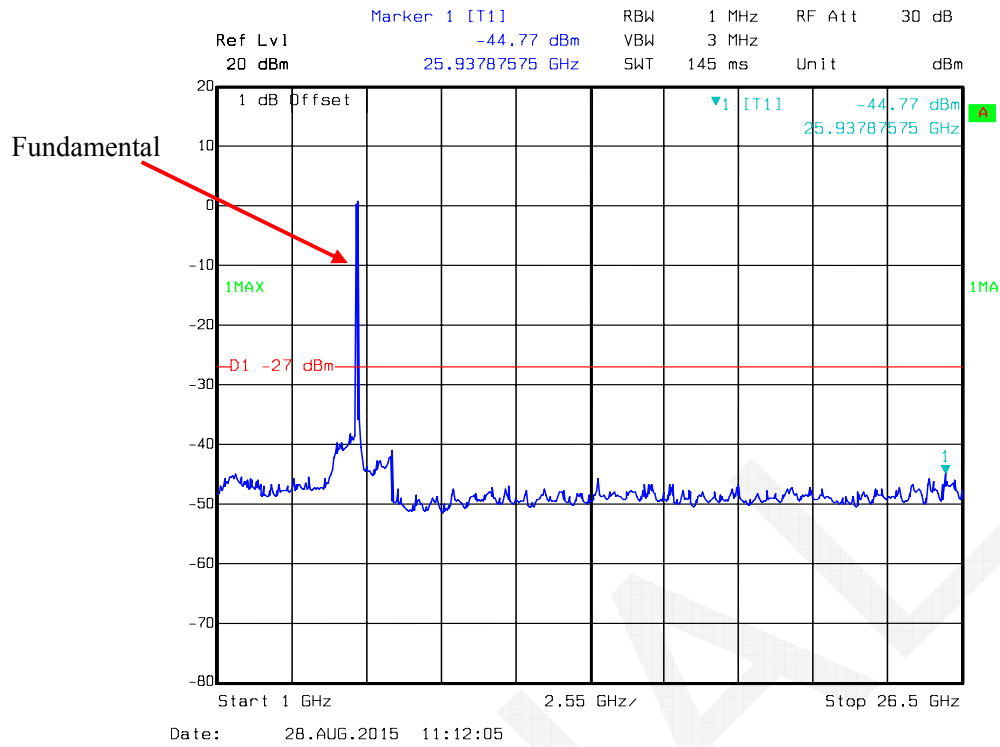




802.11n ht40 High Channel 30MHz-1GHz



802.11n ht40 High Channel 1GHz-26.5GHz



FCC §15.407(b) (1) –BAND EDGE

Applicable Standard

FCC §15.407 (b) (1), (2), (3), (4);

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
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:	26.9~27.3 °C
Relative Humidity:	57~59 %
ATM Pressure:	99.4~100.2 kPa

The testing was performed by Allen Qiao from 2015-08-26 to 2015-08-27.

Please refer to the following table and plots:

5150-5250 MHz band

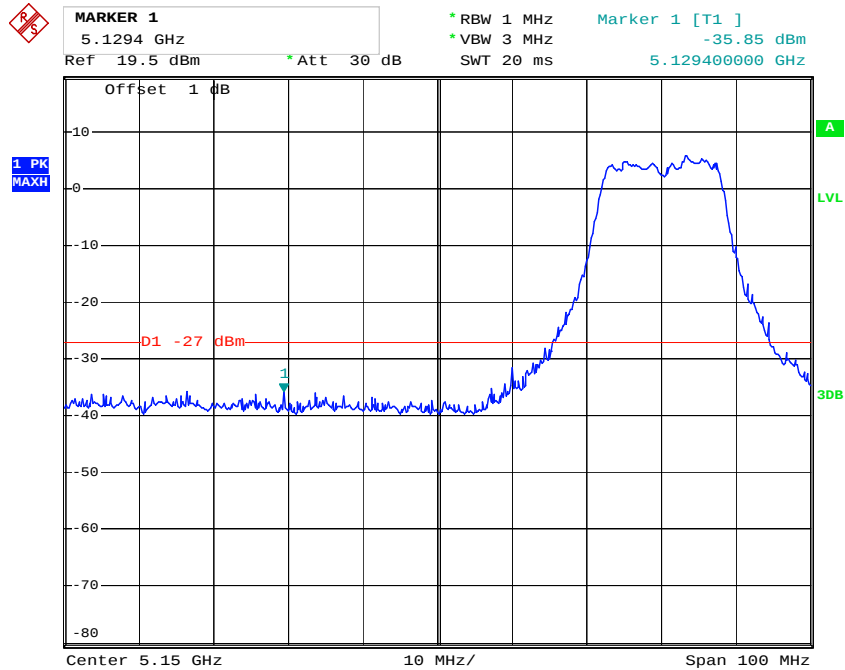
Mode	Channel	Frequency	Band edge Emissions				
		MHz	Reading(dBm/MHz)	Antenna Gain(dBi)	EIRP(dBm/MHz)	Limits	Result
802.11a	Low	5180	-35.85	2.31	-33.54	-27	Compliant
	High	5240	-36.15	2.31	-33.84	-27	Compliant
802.11n20	Low	5180	-37.24	2.31	-34.93	-27	Compliant
	High	5240	-37.49	2.31	-35.18	-27	Compliant
802.11n40	Low	5190	-35.32	2.31	-33.01	-27	Compliant
	High	5230	-37.72	2.31	-35.41	-27	Compliant

5725-5850 MHz band

Mode	Channel	Frequency	Band edge Emissions				
		MHz	Reading(dBm/MHz)	Antenna Gain(dBi)	EIRP(dBm/MHz)	Limits	Result
802.11a	Low	5745	-35.77	2.31	-33.46	-17	Compliant
	High	5825	-36.94	2.31	-34.63	-17	Compliant
802.11n20	Low	5745	-36.93	2.31	-34.62	-17	Compliant
	High	5785	-34.94	2.31	-32.63	-17	Compliant
802.11n40	Low	5755	-32	2.31	-29.69	-17	Compliant
	High	5795	-37.83	2.31	-35.52	-17	Compliant

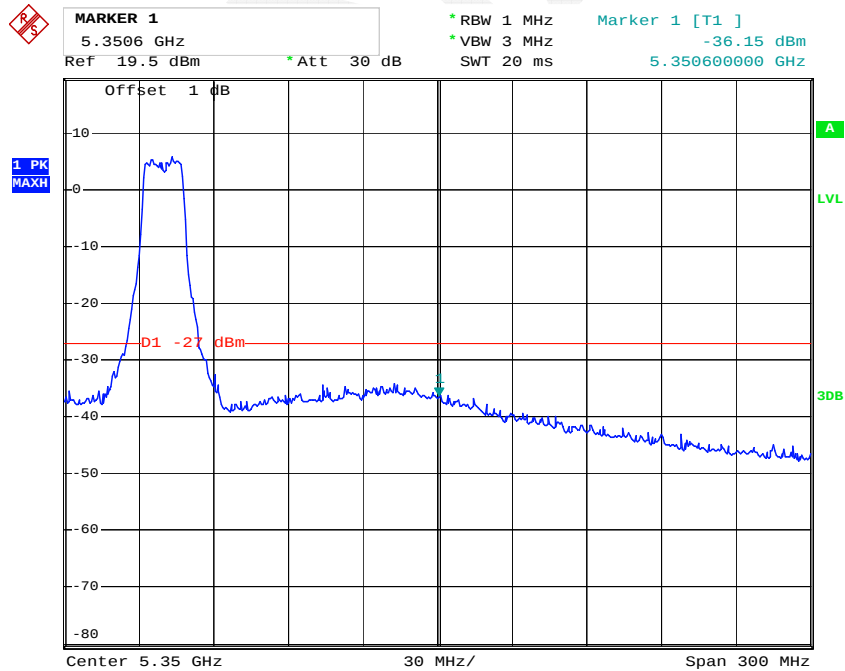
5150MHz-5250MHz:

802.11a Band Edge, Left Side



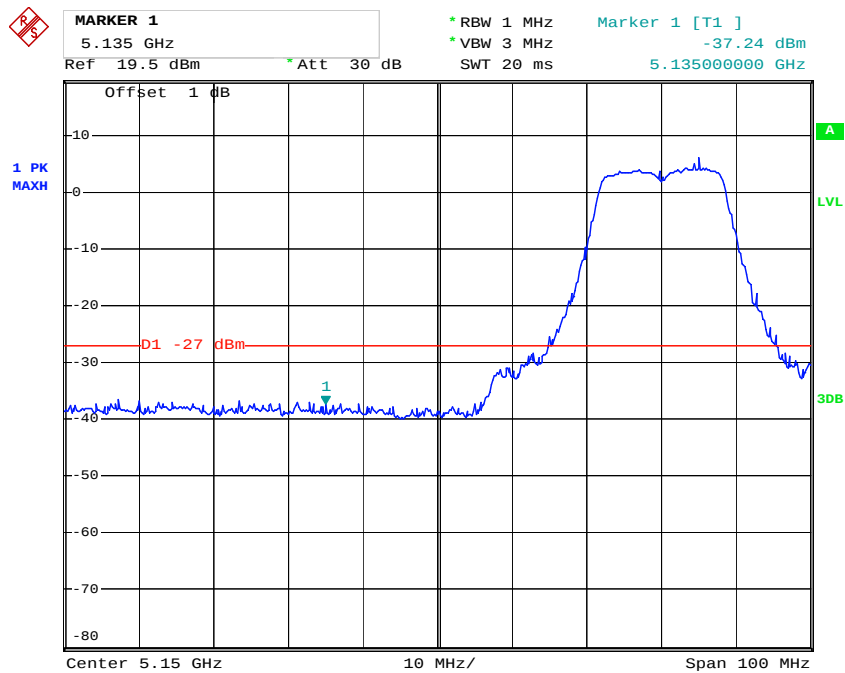
Date: 26.AUG.2015 20:14:12

802.11a Band Edge, Right Side



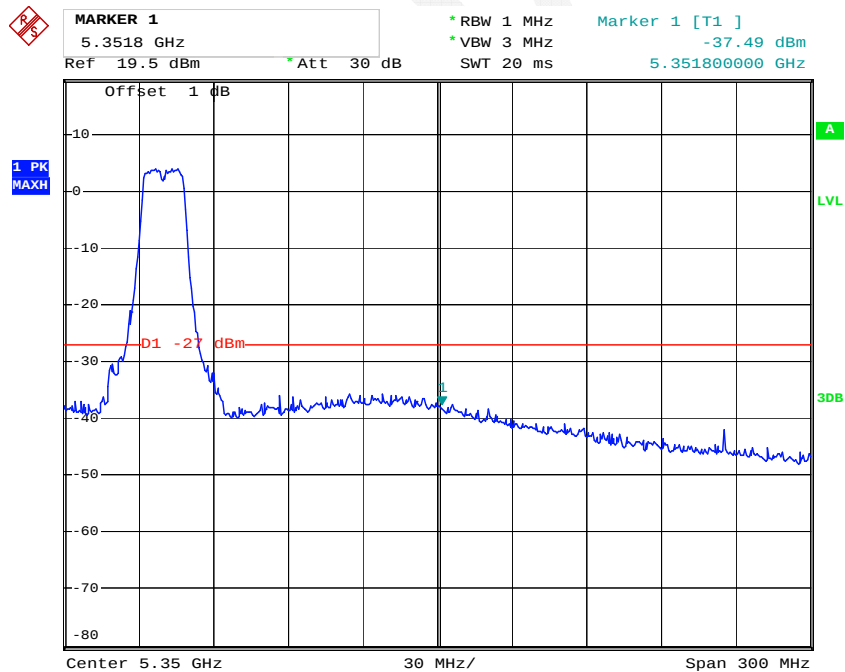
Date: 26.AUG.2015 20:15:31

802.11n ht20 Band Edge, Left Side



Date: 26.AUG.2015 20:24:52

802.11n ht20 Band Edge, Right Side

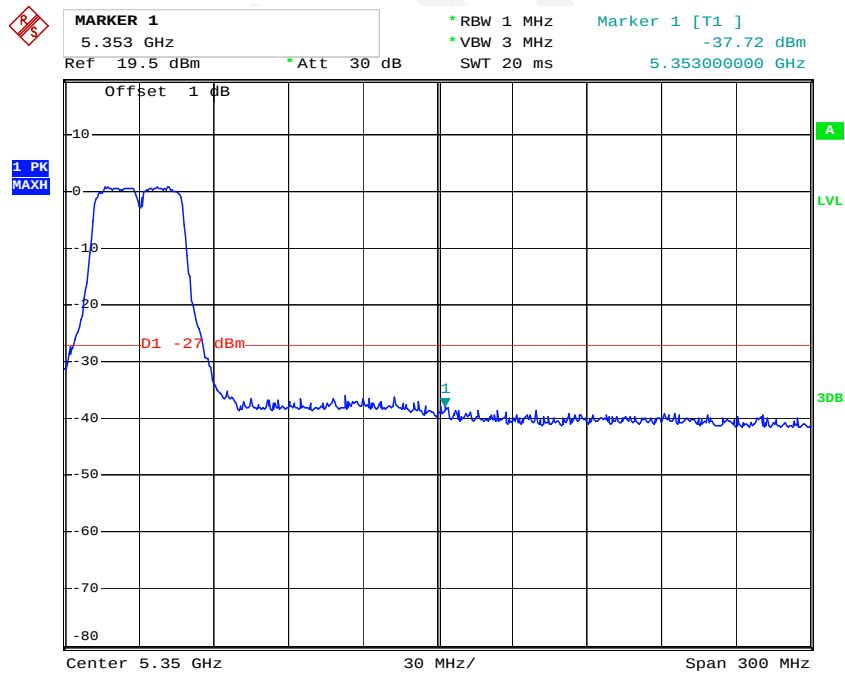


Date: 26.AUG.2015 20:17:22

MARKER 1
 5.1484 GHz
 Ref 19.5 dBm * Att 30 dB
 * RBW 1 MHz
 * VBW 3 MHz
 SWT 20 ms
 Marker 1 [T1]
 -35.32 dBm
 5.148400000 GHz

Offset 1 dB
 1 PK MAXH
 D1 -27 dBm
 1
 LVL
 3DB
 Center 5.15 GHz
 20 MHz/
 Span 200 MHz

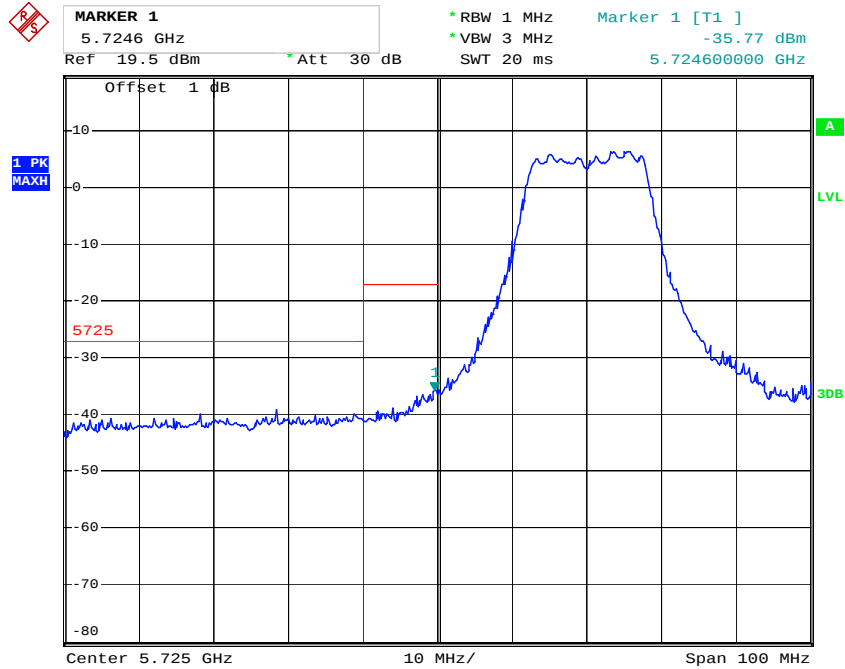
802.11n ht40 Band Edge, Right Side



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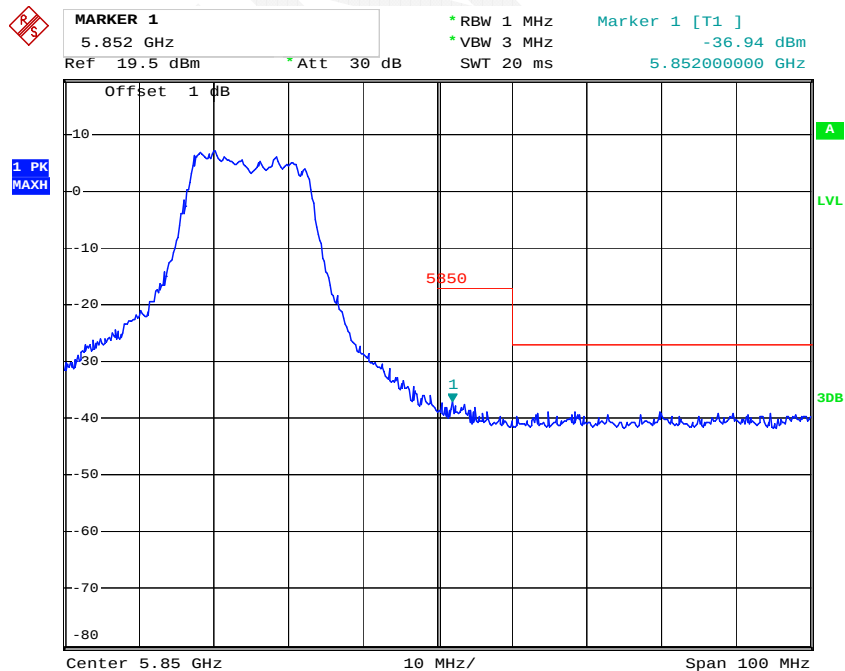
5725MHz-5850MHz:

802.11a Band Edge, Left Side



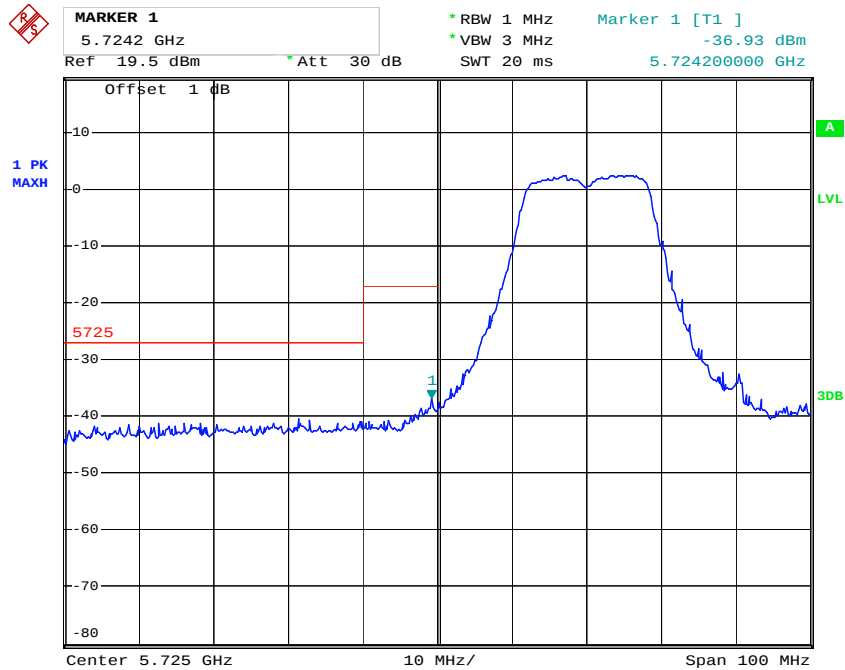
Date: 26.AUG.2015 20:56:37

802.11a Band Edge, Right Side



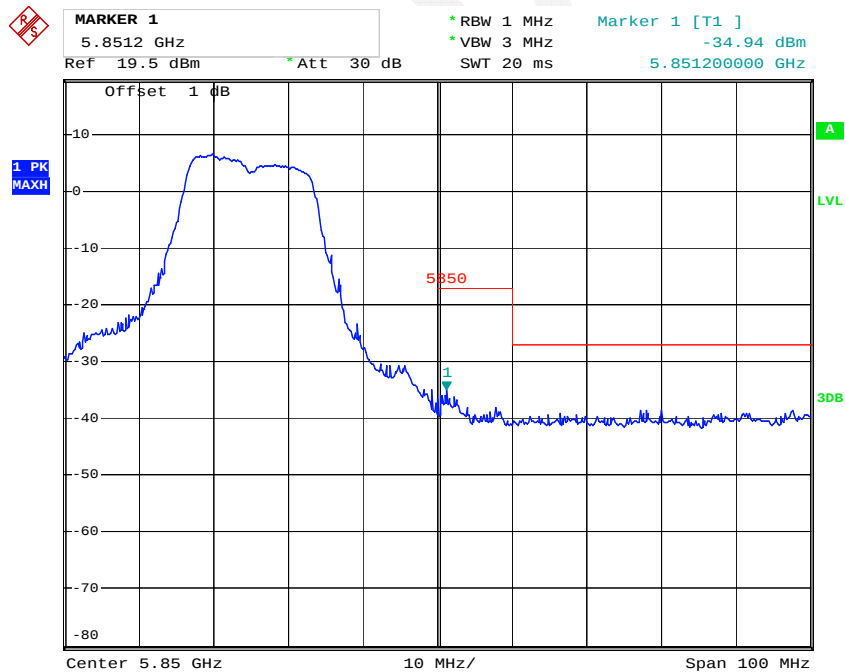
Date: 26.AUG.2015 20:34:51

802.11n ht20 Band Edge, Left Side



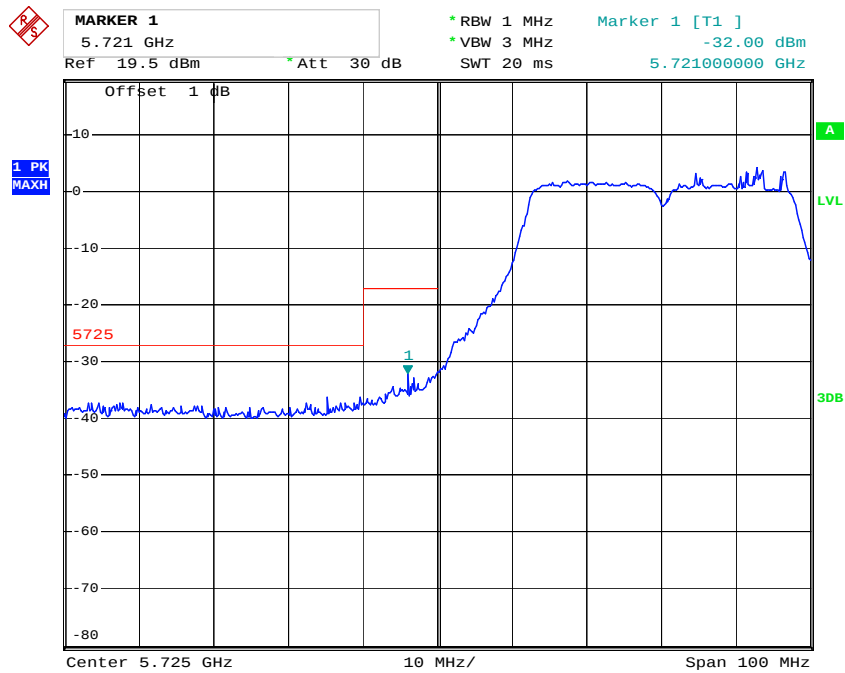
Date: 26.AUG.2015 20:27:27

802.11n ht20 Band Edge, Right Side



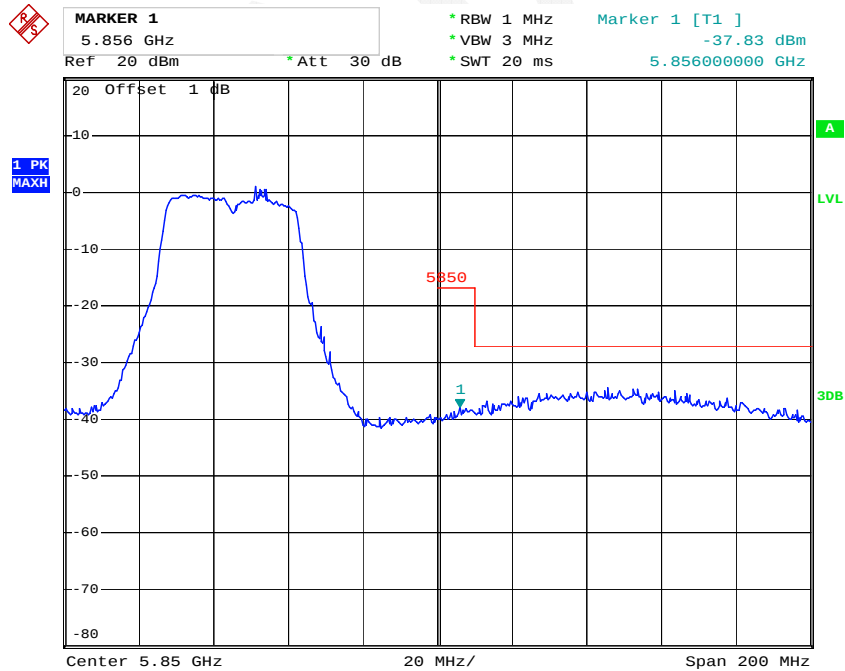
Date: 26.AUG.2015 20:33:36

802.11n ht40 Band Edge, Left Side



Date: 26.AUG.2015 21:41:07

802.11n ht40 Band Edge, Right Side



Date: 27.AUG.2015 16:23:03

FCC §15.407(a) –EMISSION BANDWIDTH**Applicable Standard**

15.407(a)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
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 Procedure

1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01

Test Data**Environmental Conditions**

Temperature:	27.3-27.6 °C
Relative Humidity:	56-59 %
ATM Pressure:	99.4-100.2 kPa

The testing was performed by Allen Qiao on 2015-08-24 and 2015-08-26.

Test Result: Pass.

Please refer to the following tables and plots.

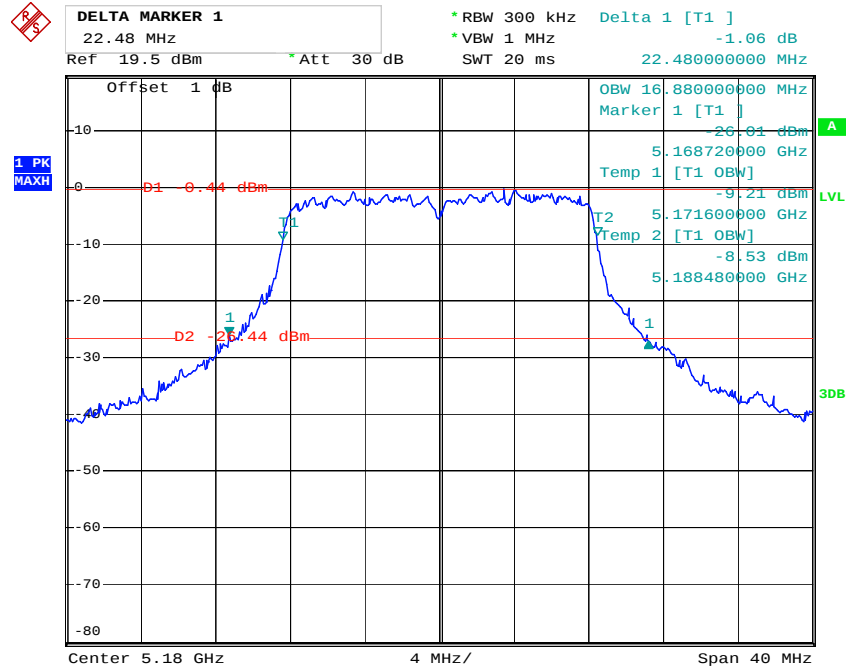
Test mode: Transmitting

UNII Band	Mode	Channel	Frequency (MHz)	26dB EBW(MHz)
5150-5250MHz	802.11 a	Low	5180	22.48
		Middle	5200	22.16
		High	5240	22
	802.11 n20	Low	5180	24.4
		Middle	5200	24.4
		High	5240	24.08
	802.11 n40	Low	5190	47.68
		High	5230	47.68

UNII Band	Mode	Channel	Frequency (MHz)	6dB EBW(MHz)	Limit (MHz)
5725-5850MHz	802.11 a	Low	5745	16.4	0.5
		Middle	5785	16.16	0.5
		High	5825	16.4	0.5
	802.11 n20	Low	5745	16.72	0.5
		Middle	5785	16.4	0.5
		High	5825	16.56	0.5
	802.11 n40	Low	5755	36.32	0.5
		High	5795	36	0.5

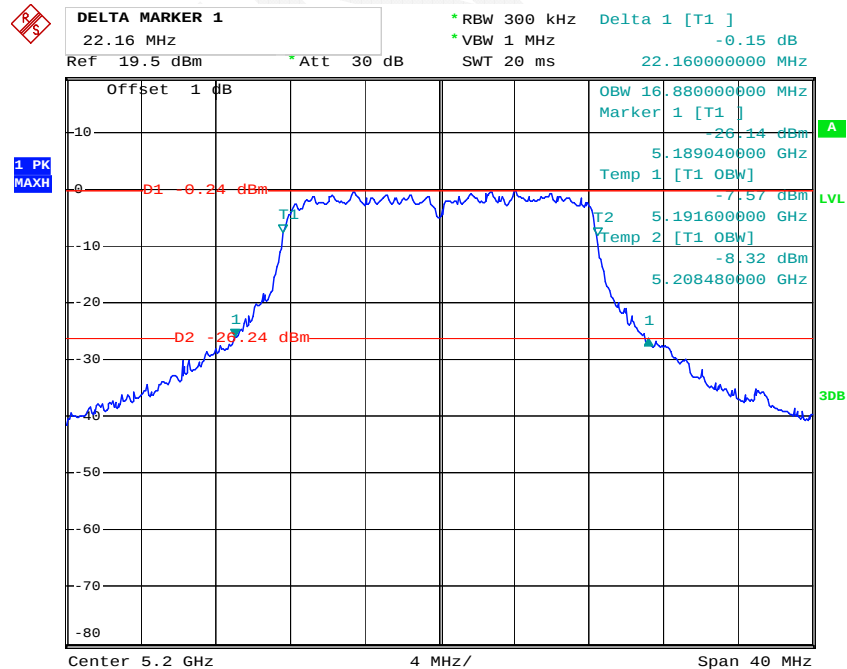
26dB EBW:
5150MHz-5250MHz:

802.11a Low Channel



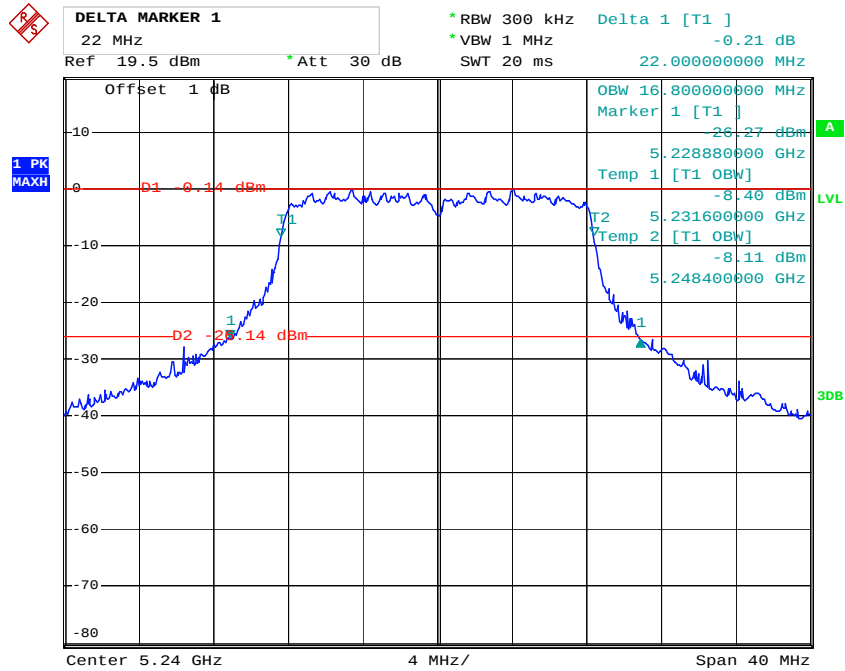
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802.11a Middle Channel



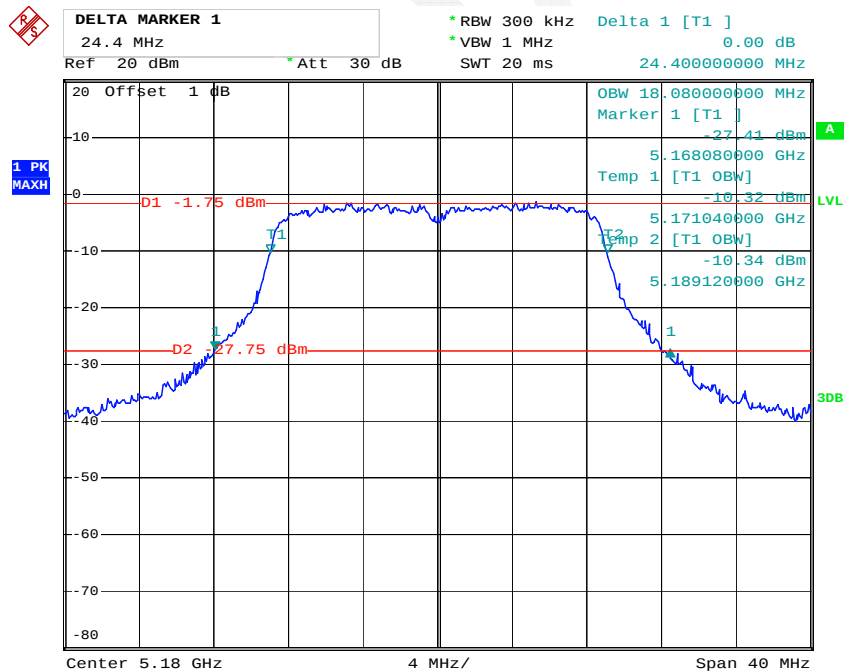
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802.11a High Channel



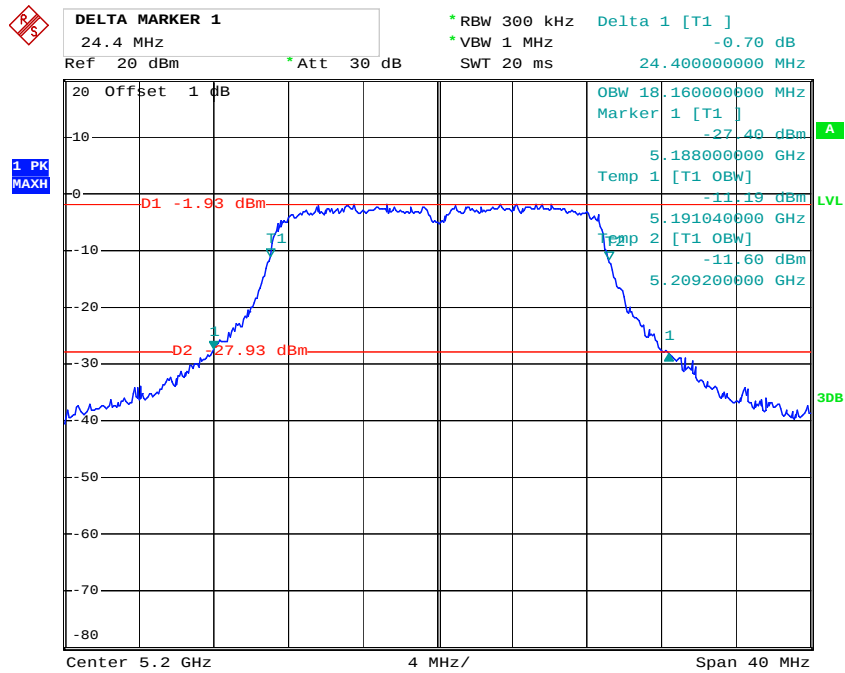
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802.11n ht20 Low Channel



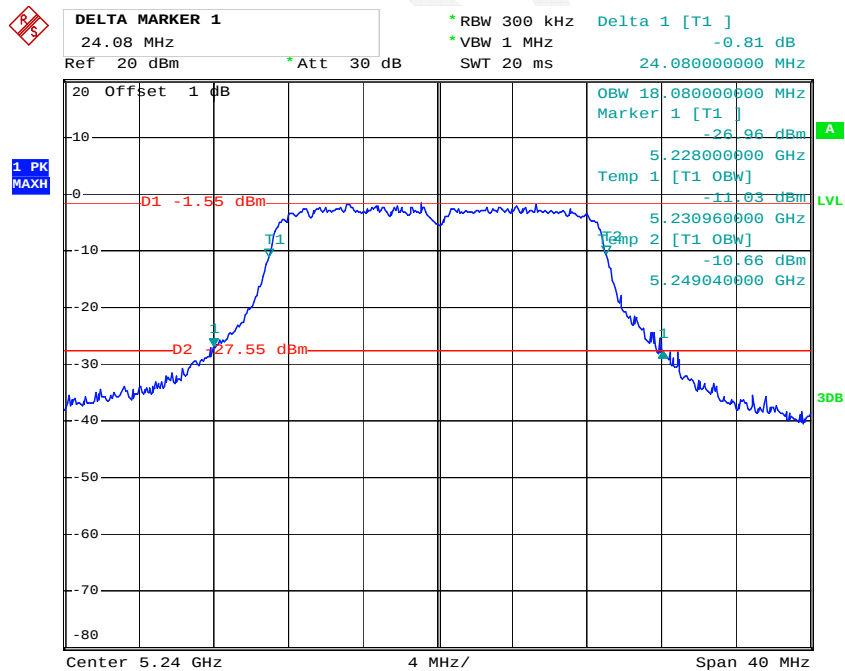
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802.11n ht20 Middle Channel



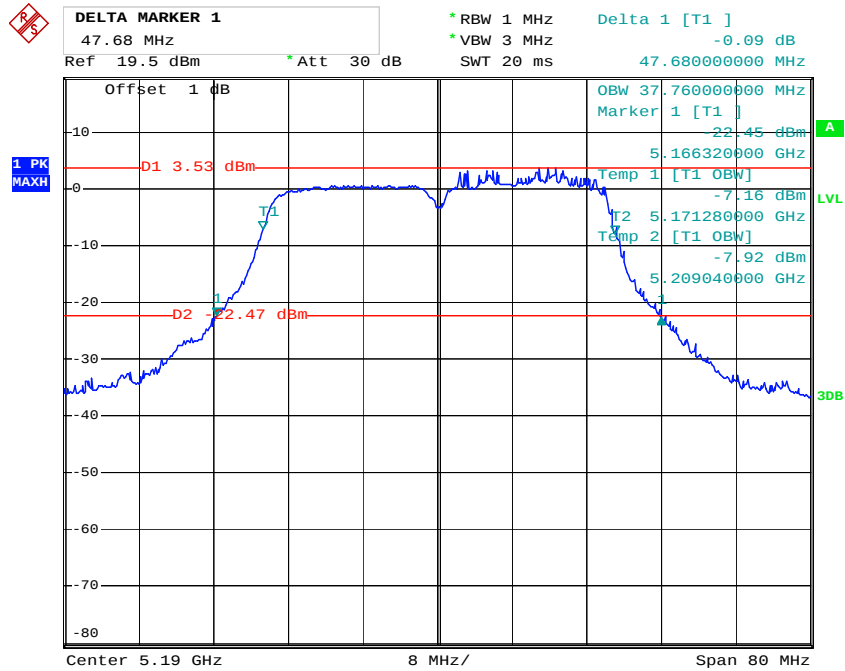
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802.11n ht20 High Channel



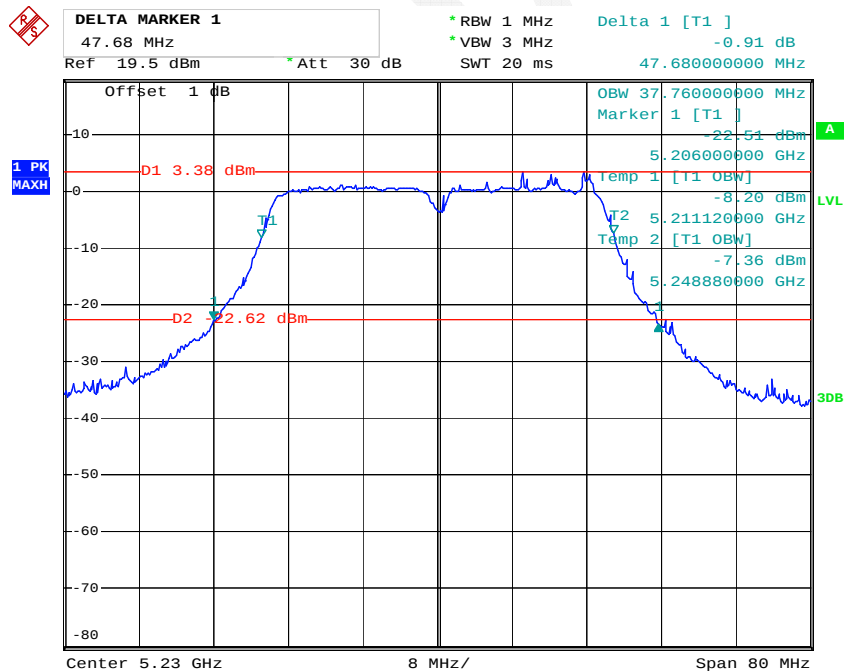
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802.11n ht40 Low Channel



Date: 26.AUG.2015 21:02:00

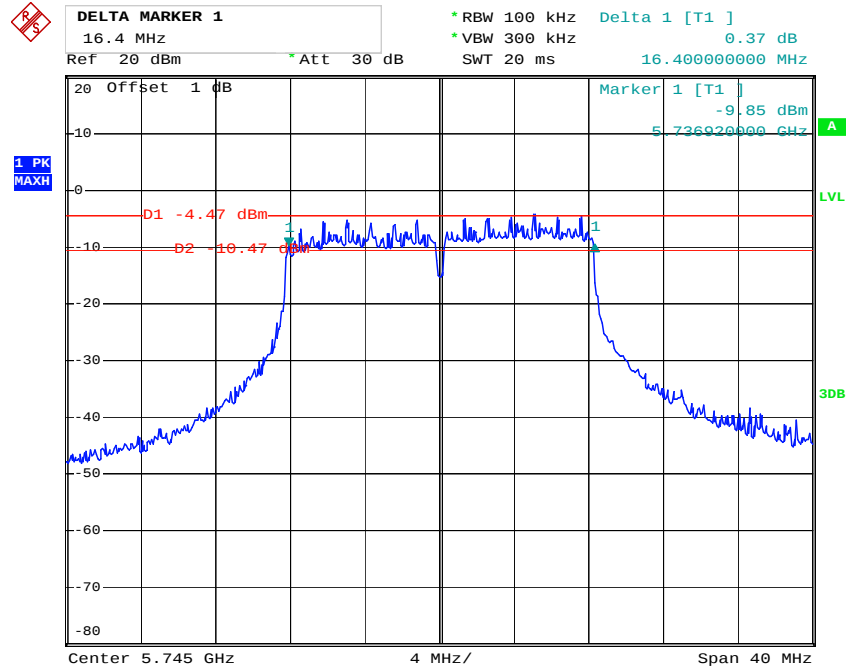
802.11n ht40 High Channel



Date: 26.AUG.2015 21:11:41

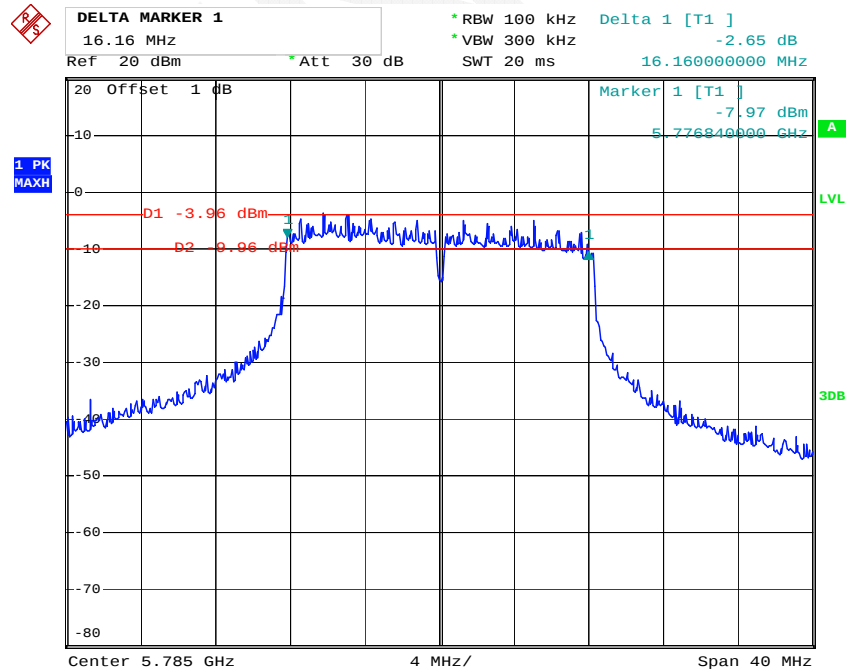
6dB EBW:
5725MHz-5850MHz:

802.11a Low Channel



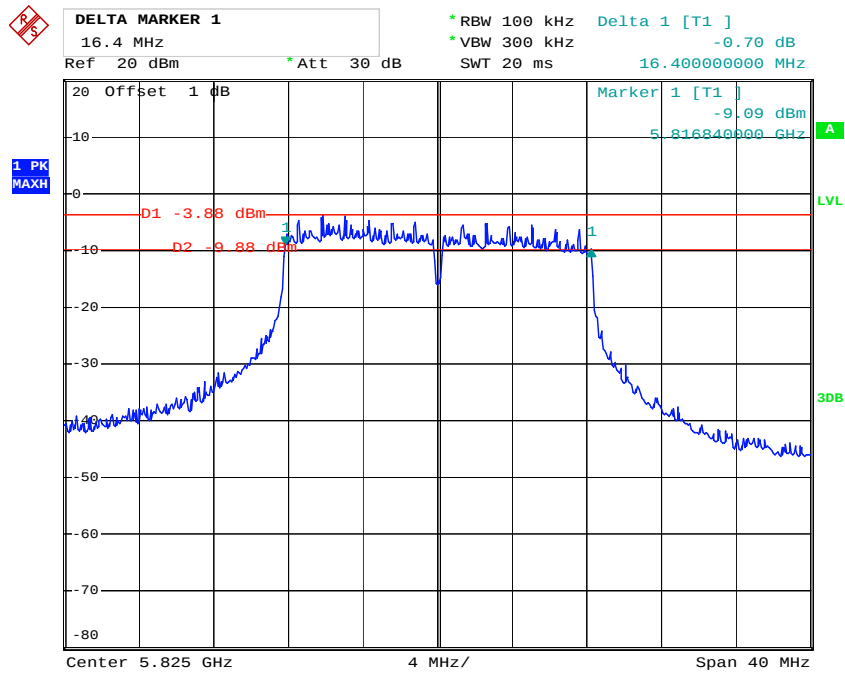
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802.11a Middle Channel



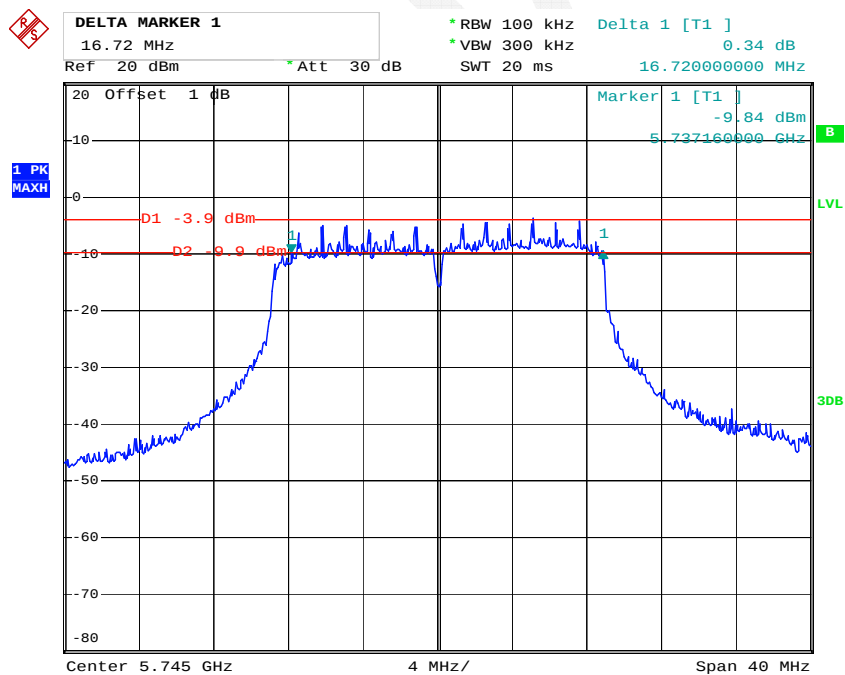
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802.11a High Channel



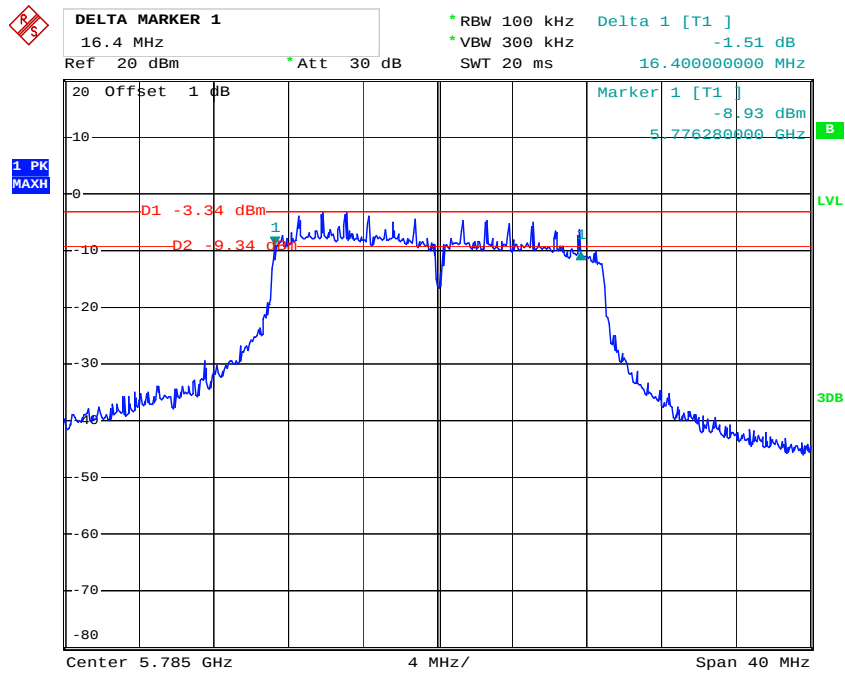
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802.11n ht20 Low Channel



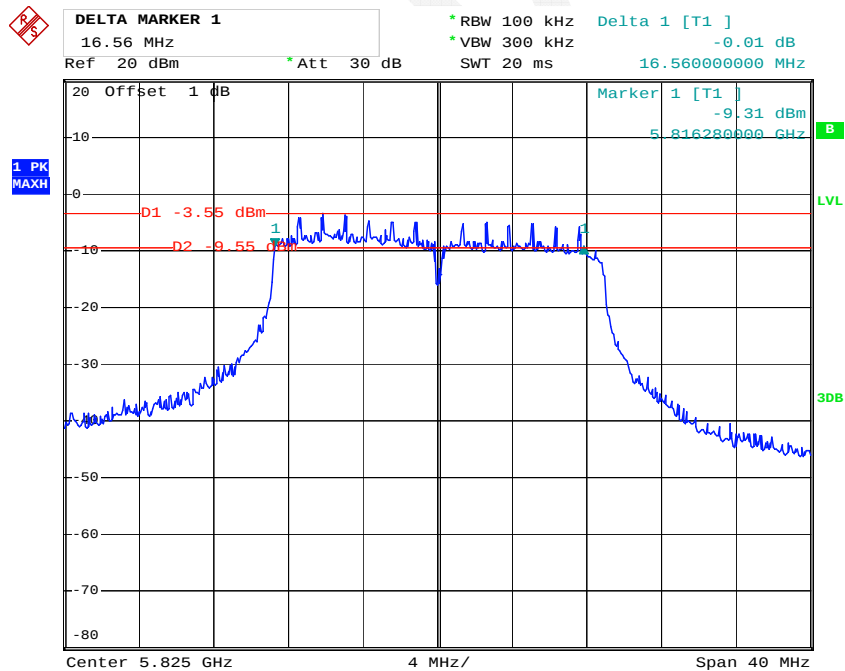
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802.11n ht20 Middle Channel



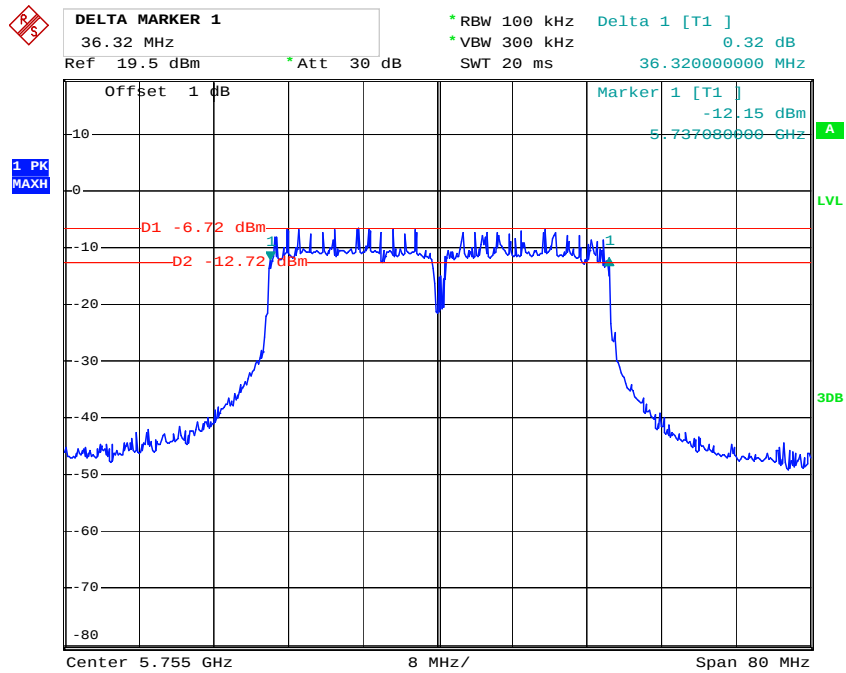
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802.11n ht20 High Channel



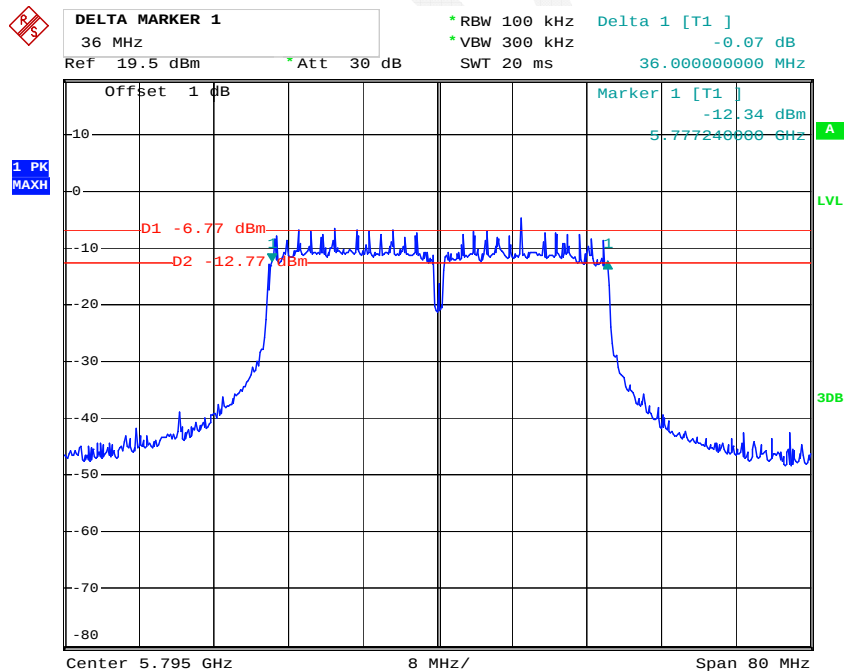
Date: 24.AUG.2015 18:22:05

802.11n ht40 Low Channel



Date: 26.AUG.2015 21:38:26

802.11n ht40 High Channel



Date: 26.AUG.2015 21:25:53

FCC §15.407(a) (1) (ii) (4) –MAXIMUM CONDUCTED OUTPUT POWER**Applicable Standard**

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 + 10 \log B$ dBm, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

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 Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01.

Test Data

Environmental Conditions

Temperature:	27.3-27.6 °C
Relative Humidity:	56-59 %
ATM Pressure:	99.4-100.2 kPa

The testing was performed by Allen Qiao on 2015-08-24 and 2015-08-26.

Test Mode: Transmitting

UNII Band	Mode	Channel	Frequency(MHz)	RMS Power(dBm)	Limit (dBm)
5150-5250MHz	802.11 a	Low	5180	7.2	30
		Middle	5200	7.24	30
		High	5240	7.42	30
	802.11 n20	Low	5180	7.04	30
		Middle	5200	6.84	30
		High	5240	6.81	30
	802.11 n40	Low	5190	7.5	30
		High	5230	7.21	30
5725-5850MHz	802.11 a	Low	5745	6.84	30
		Middle	5785	6.95	30
		High	5825	6.84	30
	802.11 n20	Low	5745	6.81	30
		Middle	5785	7.19	30
		High	5825	7.11	30
	802.11 n40	Low	5755	7.54	30
		High	5795	7.57	30

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2015-05-09	2016-05-09
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:	27.3-27.6 °C
Relative Humidity:	56-59 %
ATM Pressure:	99.4-100.2 kPa

The testing was performed by Allen Qiao on 2015-08-24 and 2015-08-26.

Test Mode: Transmitting

Test Result: Compliance. Please refer to the following table and plot.

UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density(dBm/MHz)	Limit (dBm/MHz)
5150-5250MHz	802.11 a	Low	5180	-3.17	17
		Middle	5200	-3.75	17
		High	5240	-3.74	17
	802.11 n20	Low	5180	-3.9	17
		Middle	5200	-4.32	17
		High	5240	-4.35	17
	802.11 n40	Low	5190	-6.49	17
		High	5230	-7.26	17

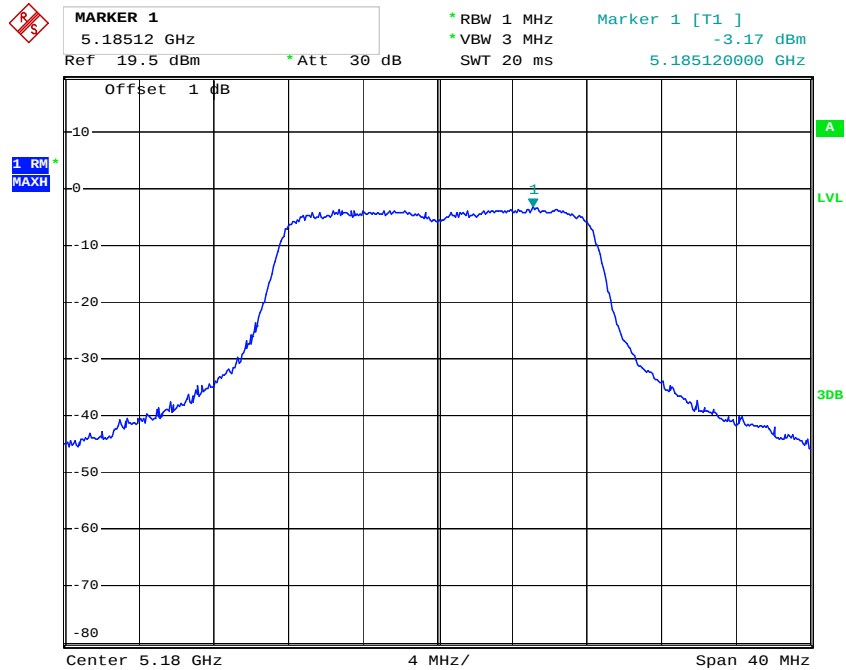
UNII Band	Mode	Channel	Frequency (MHz)	Power Spectral Density(dBm/300kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)
5725-5850MHz	802.11 a	Low	5745	-6.97	-4.77	30
		Middle	5785	-6.63	-4.43	30
		High	5825	-6.49	-4.29	30
	802.11 n20	Low	5745	-7.43	-5.23	30
		Middle	5785	-7.31	-5.11	30
		High	5825	-7.01	-4.81	30
	802.11 n40	Low	5755	-9.91	-7.71	30
		High	5795	-10.32	-8.12	30

Note: According to 789033 D02 General UNII Test Procedures New Rules v01, the test value for 5725-5850 MHz should add $10 \cdot \log(500\text{kHz}/\text{RBW})$ to the measured result.

Please refer to the following plots

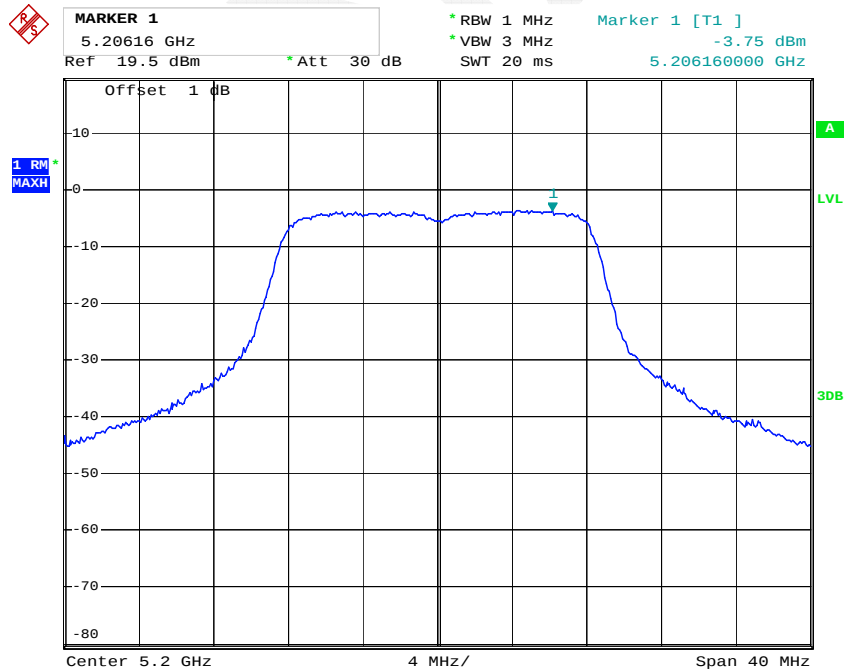
5150MHz-5250MHz:

Power Spectral Density, 802.11a Low Channel



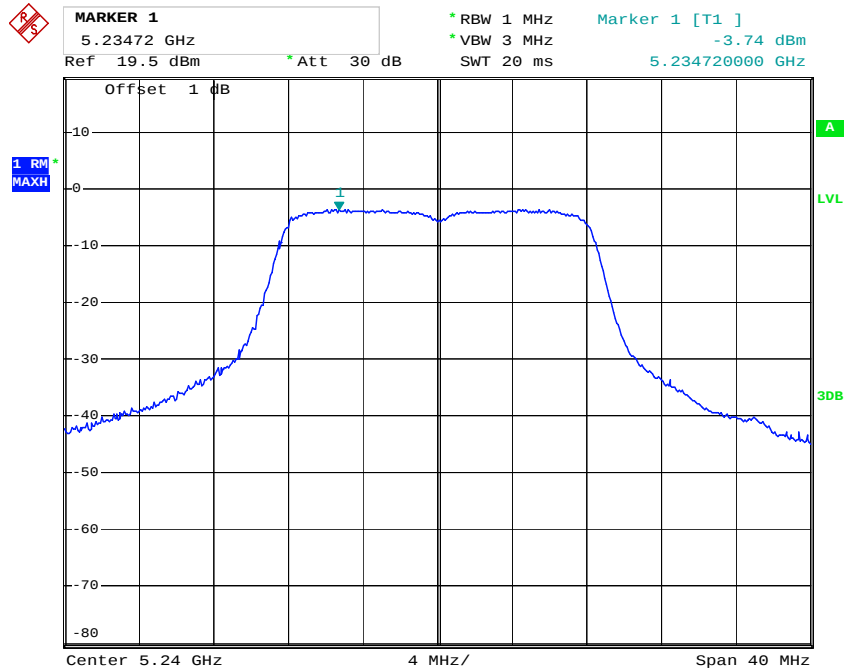
Date: 24.AUG.2015 15:59:57

Power Spectral Density, 802.11a Middle Channel



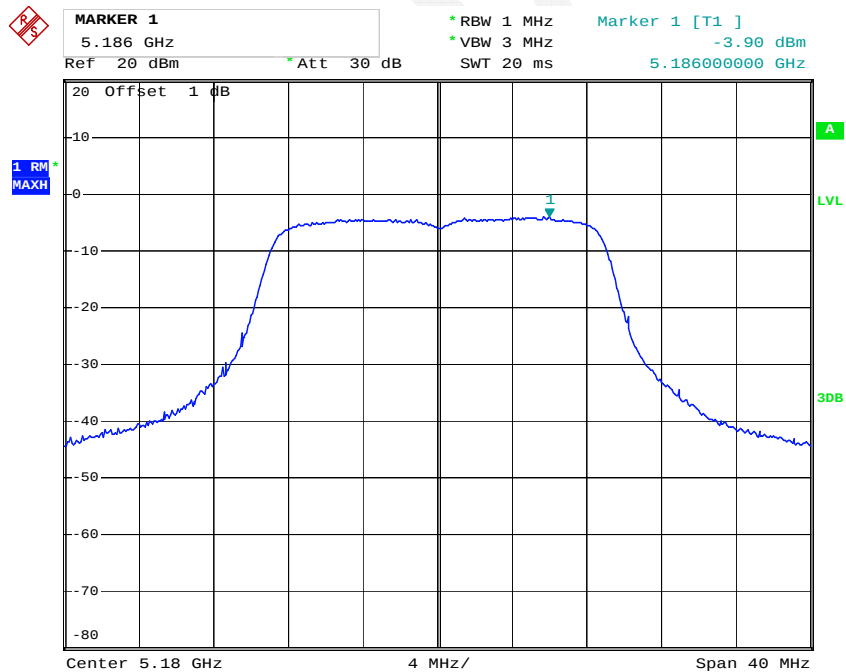
Date: 24.AUG.2015 16:23:12

Power Spectral Density, 802.11a High Channel



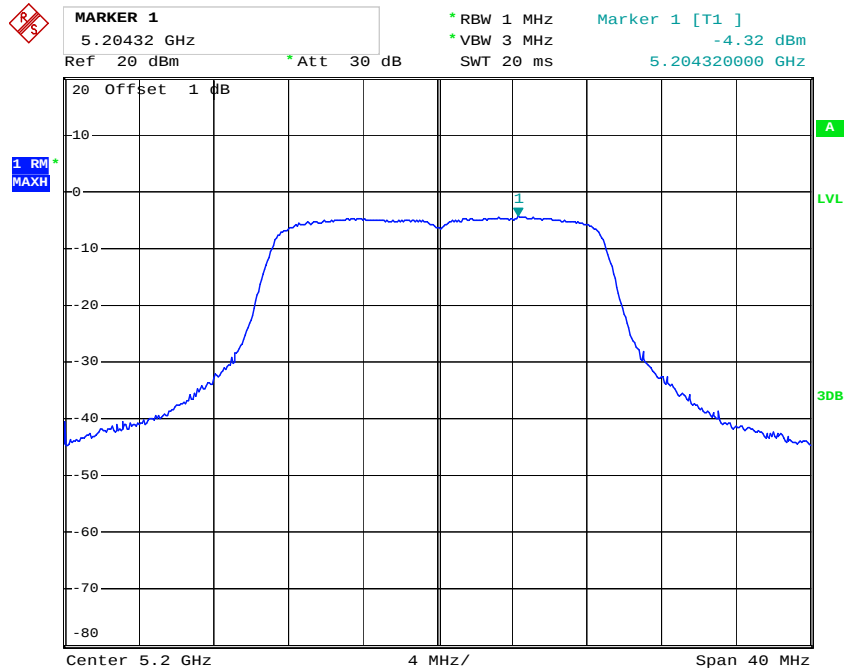
Date: 24.AUG.2015 16:25:32

Power Spectral Density, 802.11n ht20 Low Channel



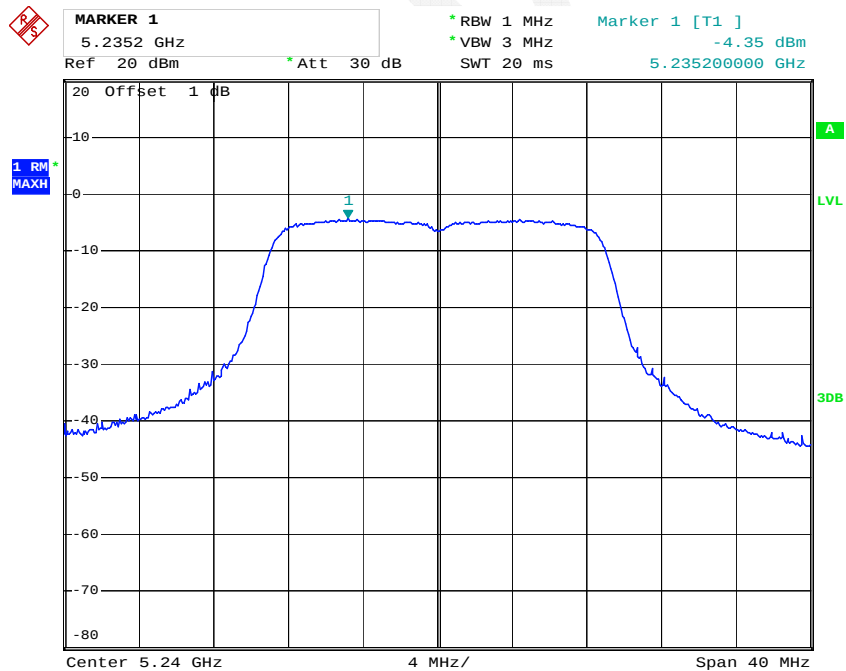
Date: 24.AUG.2015 17:00:10

Power Spectral Density, 802.11n ht20 Middle Channel



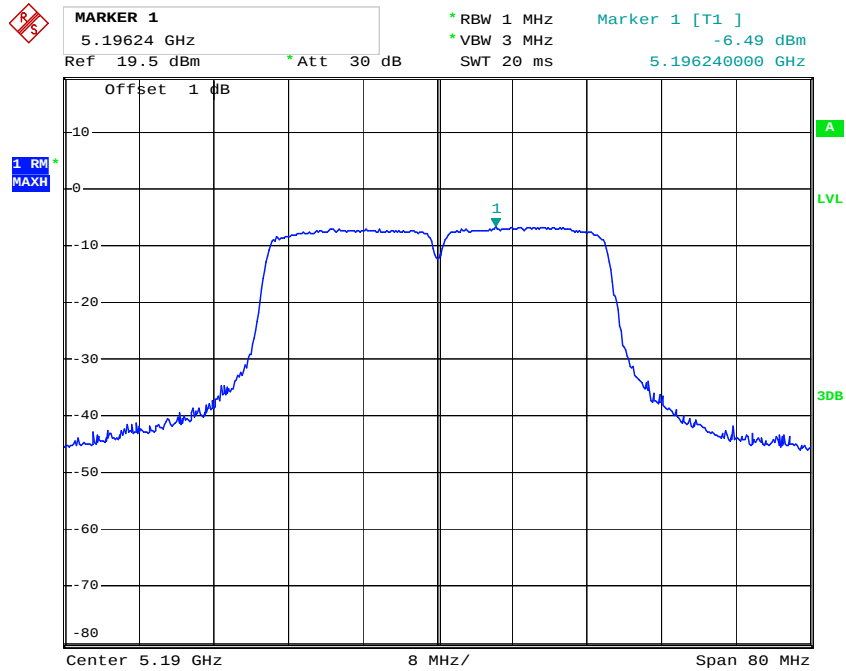
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Power Spectral Density, 802.11n ht20 High Channel



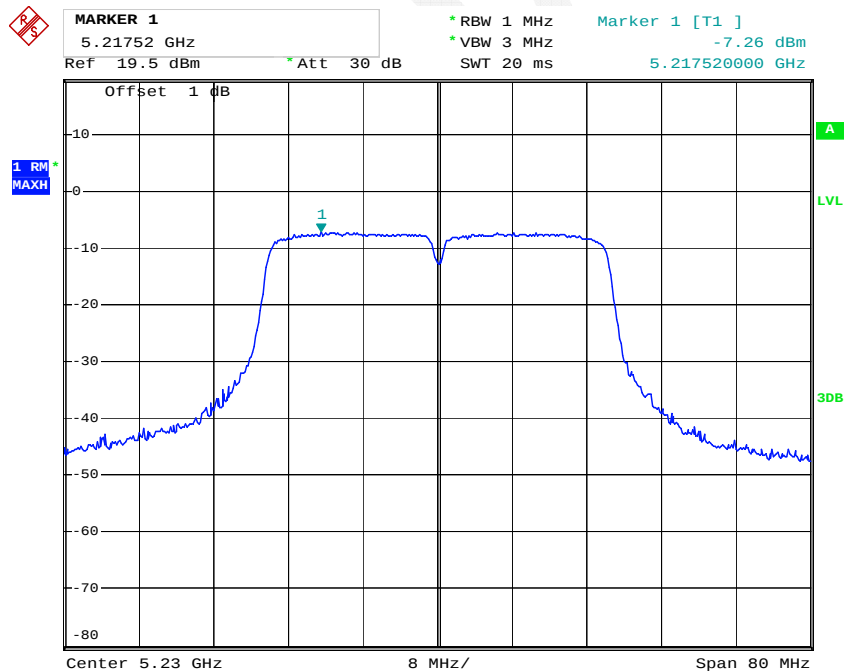
Date: 24.AUG.2015 16:45:14

Power Spectral Density, 802.11n ht40 Low Channel



Date: 26.AUG.2015 21:03:27

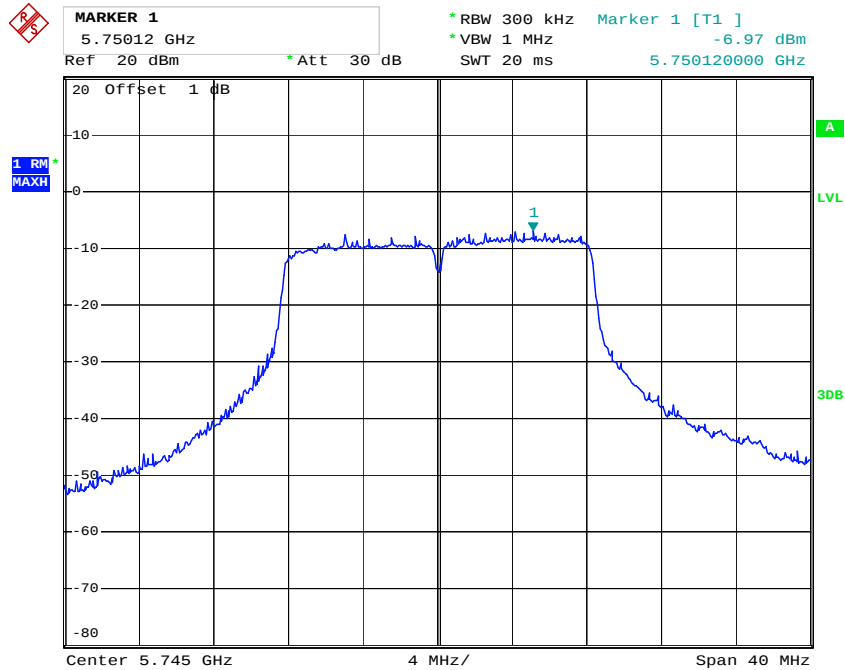
Power Spectral Density, 802.11n ht40 High Channel



Date: 26.AUG.2015 21:12:25

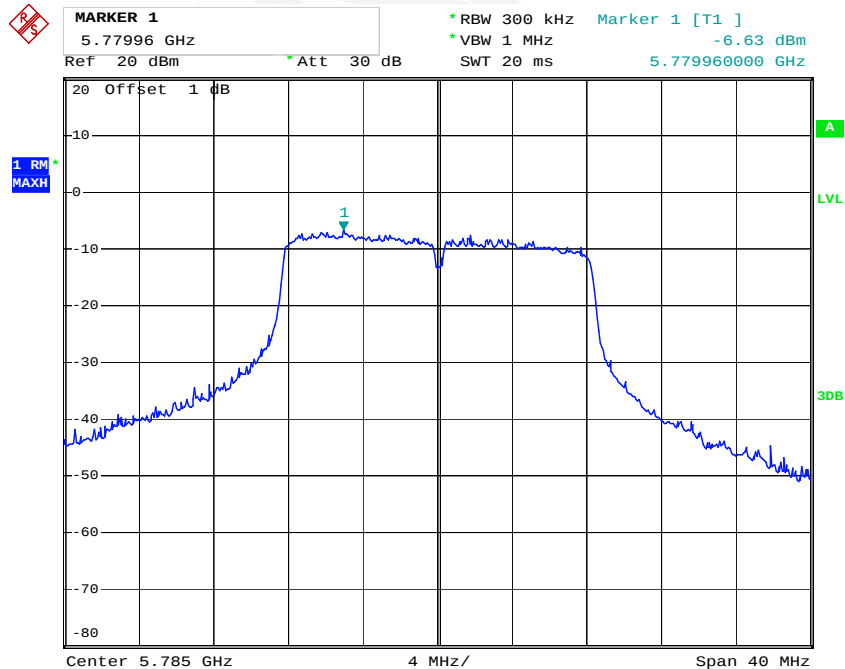
5725MHz-5850MHz:

Power Spectral Density, 802.11a Low Channel



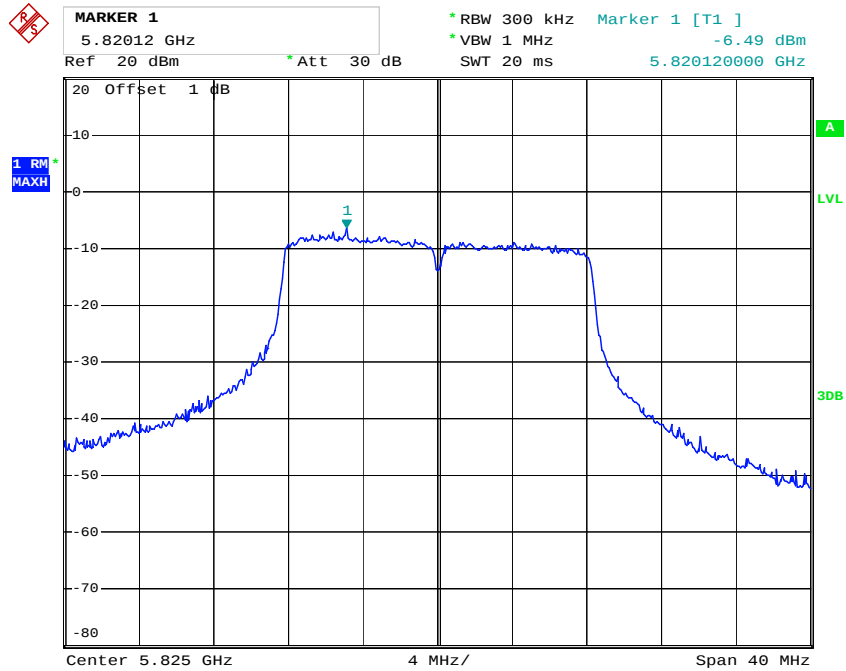
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Power Spectral Density, 802.11a Middle Channel



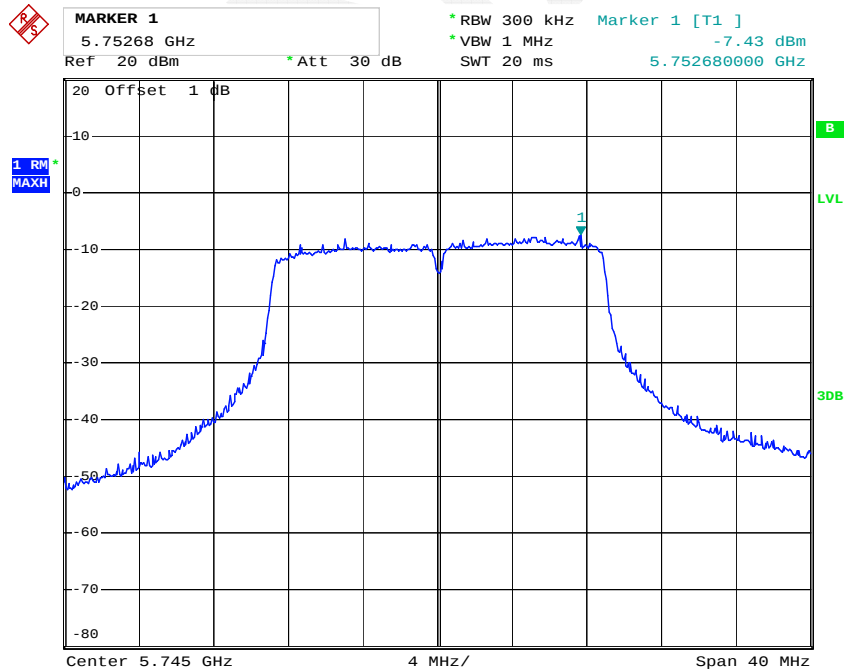
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Power Spectral Density, 802.11a High Channel



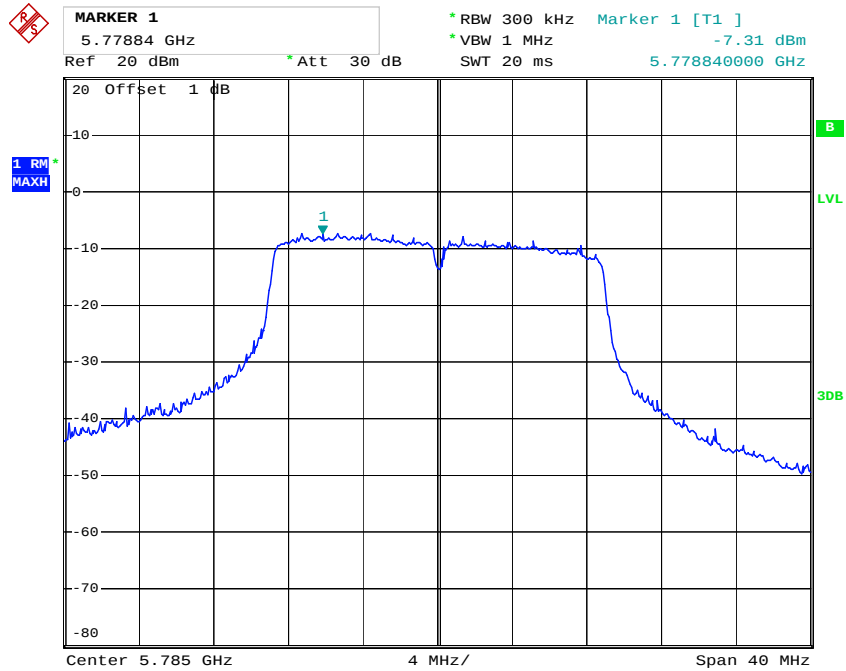
Date: 24.AUG.2015 17:20:21

Power Spectral Density, 802.11n ht20 Low Channel



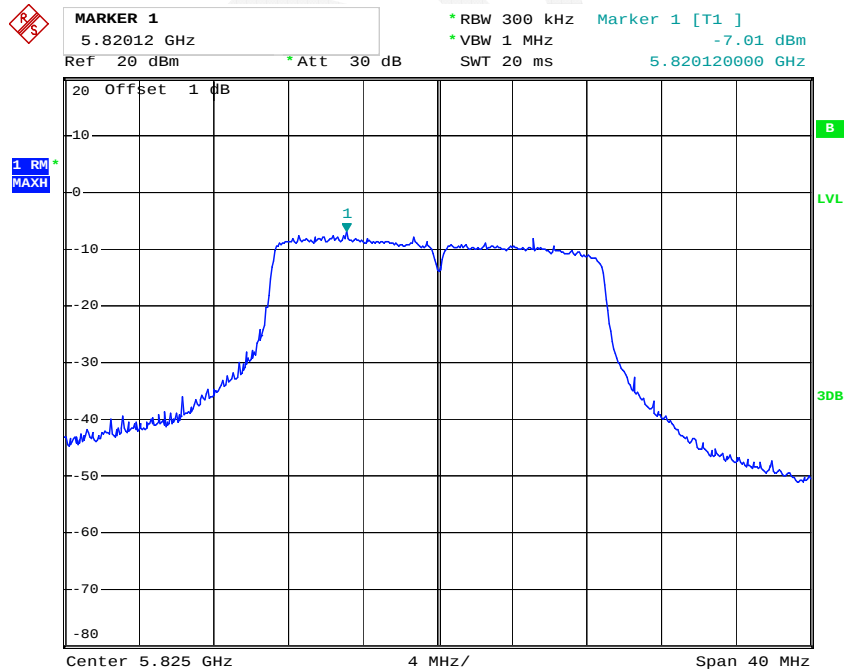
Date: 24.AUG.2015 17:54:57

Power Spectral Density, 802.11n ht20 Middle Channel



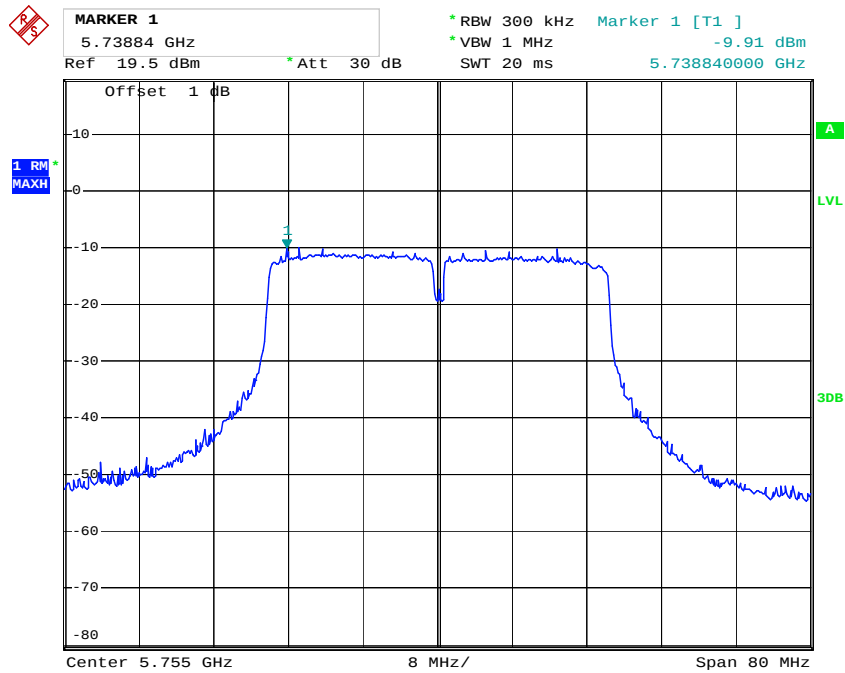
Date: 24.AUG.2015 18:17:32

Power Spectral Density, 802.11n ht20 High Channel



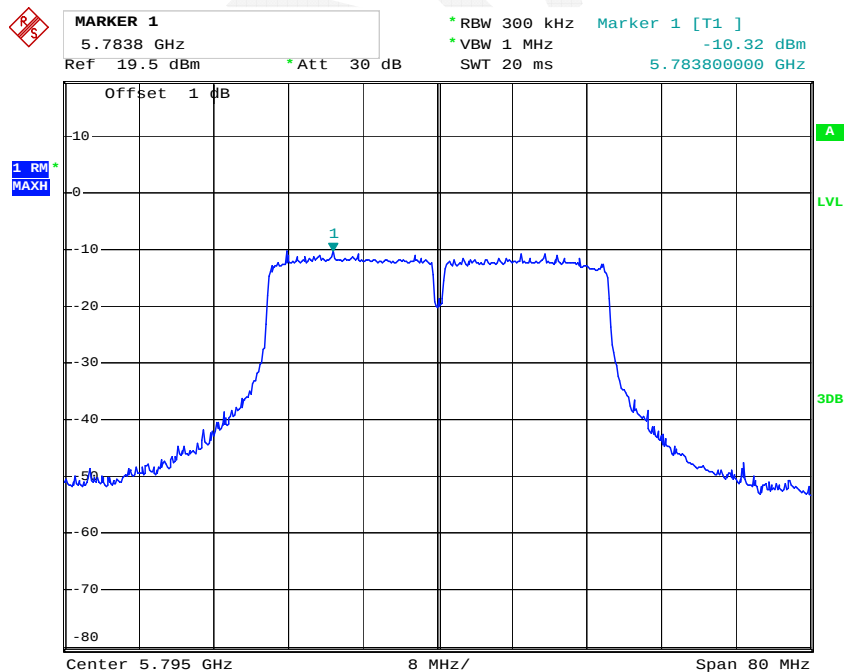
Date: 24.AUG.2015 18:21:20

Power Spectral Density, 802.11n ht40 Low Channel



Date: 26.AUG.2015 21:36:55

Power Spectral Density, 802.11n ht40 High Channel



Date: 26.AUG.2015 21:24:16

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