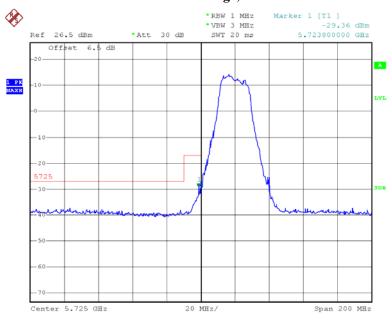
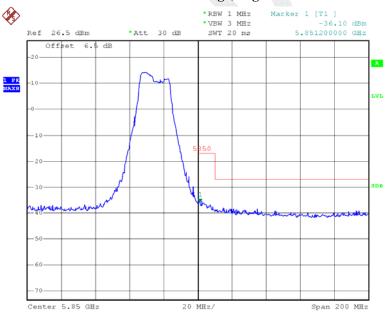
802.11n ht20 Band Edge, Left Side - Chain0



Date: 12.APR.2015 12:56:23

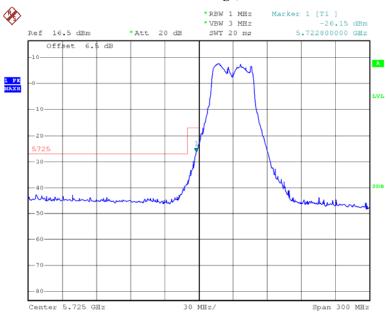
802.11n ht20 Band Edge, Right Side - Chain0



Date: 12.APR.2015 12:57:00

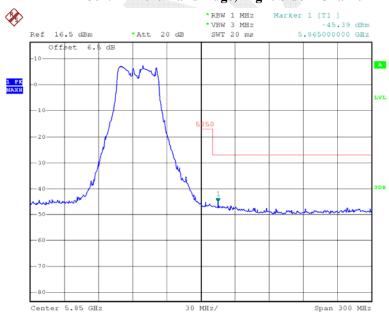
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802.11n ht40 Band Edge, Left Side - Chain0



Date: 12.APR.2015 12:55:25

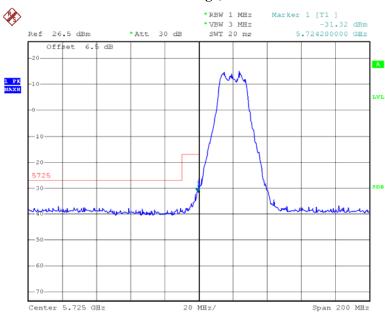
802.11n ht40 Band Edge, Right Side - Chain0



Date: 12.APR.2015 12:54:36

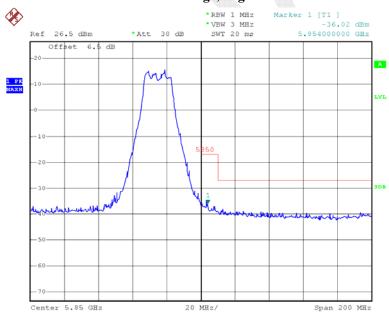
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802.11a Band Edge, Left Side - Chain1



Date: 12.APR.2015 13:33:56

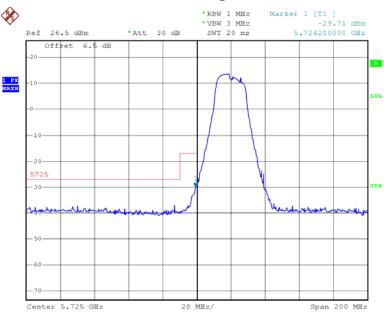
802.11a Band Edge, Right Side - Chain1



Date: 12.APR.2015 13:33:30

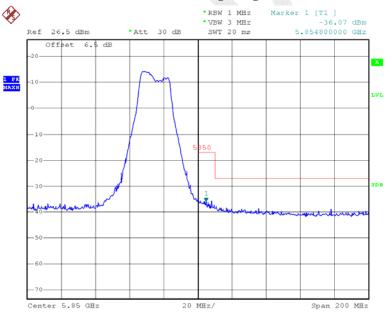
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802.11n ht20 Band Edge, Left Side - Chain1



Date: 12.APR.2015 13:32:39

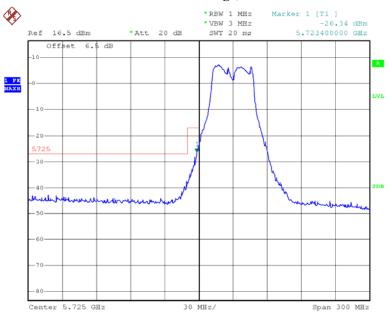
802.11n ht20 Band Edge, Right Side - Chain1



Date: 12.APR.2015 13:33:08

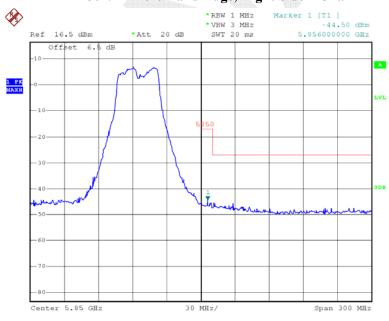
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802.11n ht40 Band Edge, Left Side - Chain1



Date: 12.APR.2015 13:31:57

802.11n ht40 Band Edge, Right Side - Chain1



Date: 12.APR.2015 13:31:07

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FCC §15.407(a) –EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

Applicable Standard

15.407(a) (e)

Test Equipment List and Details

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

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

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	22.9 °C
Relative Humidity:	54 %
ATM Pressure:	101 kPa

The testing was performed by Allen Qiao on 2015-04-12.

Test Result: Pass.

Please refer to the following tables and plots.

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Test mode: Transmitting

5150MHz-5250MHz:

Mode	Channel	Frequency MHz	26 dB Bandwidth (MHz)		99% oo band (M	Result	
		1,111	Chain0	Chain1	Chain0	Chain1	
802.11a	Low	5180	24.64	25.44	17.36	17.68	PASS
	Middle	5200	24.24	25.52	17.12	17.68	PASS
	High	5240	24.24	25.2	17.12	17.68	PASS
	Low	5180	25.28	26.40	18.24	18.80	PASS
802.11n20	Middle	5200	25.52	26.80	18.32	18.72	PASS
	High	5240	25.12	26.56	18.24	18.88	PASS
802.11n40	Low	5190	48.00	50.08	36.64	37.12	PASS
	High	5230	48.96	49.76	37.12	37.12	PASS

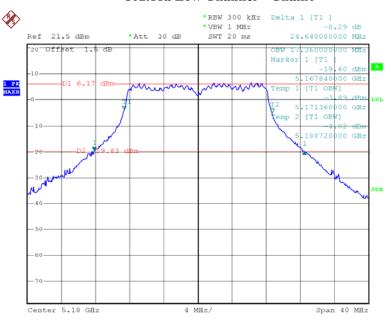
5725MHz-5850MHz:

Mode	Channel	Frequency MHz	26 dB Bandwidth (MHz)		6dB Bandwidth (MHz)		99% occupied bandwidth (MHz)		Result
			Chain0	Chain1	Chain0	Chain1	Chain0	Chain1	
802.11a	Low	5745	24.40	24.00	16.56	16.48	17.28	17.12	PASS
	Middle	5785	23.76	23.68	16.48	16.48	17.20	17.28	PASS
	High	5825	23.92	24.00	16.48	16.48	17.28	17.12	PASS
802.11n20	Low	5745	24.88	25.68	17.04	17.84	18.32	18.72	PASS
	Middle	5785	24.80	25.36	17.60	17.84	18.48	18.56	PASS
	High	5825	25.36	25.44	17.44	17.84	18.72	18.72	PASS
802.11n40	Low	5755	48.96	49.28	36.48	36.8	36.96	36.96	PASS
	High	5795	48.32	47.68	36.64	36.64	36.96	36.80	PASS

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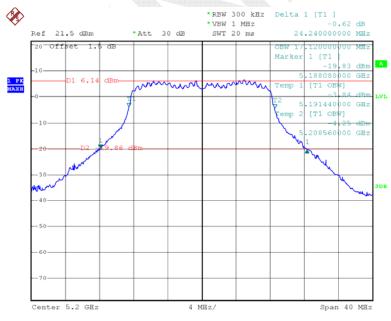
5150MHz-5250MHz:

802.11a Low Channel - Chain0



Date: 12.APR.2015 11:13:22

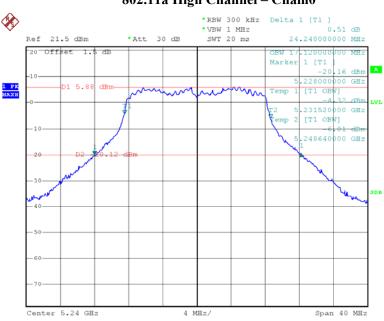
802.11a Middle Channel - Chain0



Date: 12.APR.2015 11:16:50

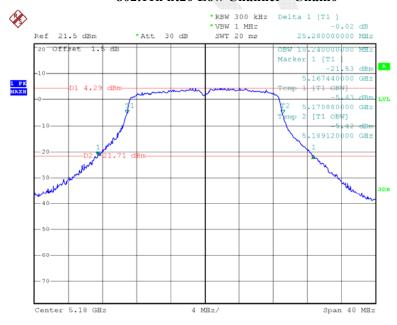
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802.11a High Channel - Chain0



Date: 12.APR.2015 11:18:10

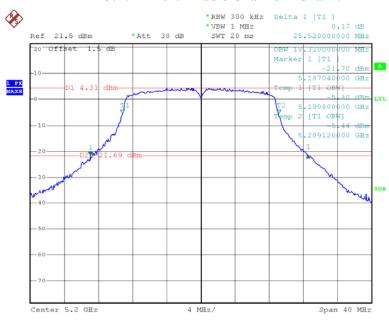
802.11n ht20 Low Channel - Chain0



Date: 12.APR.2015 11:19:25

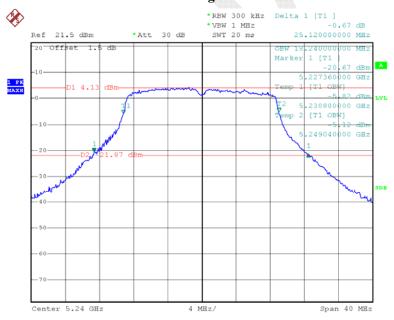
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802.11n ht20 Middle Channel – Chain0



Date: 12.APR.2015 11:20:12

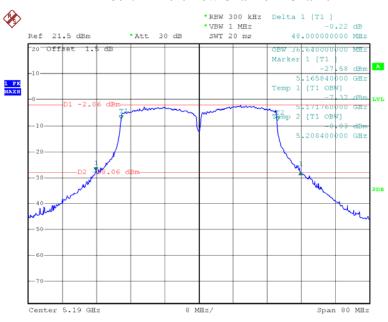
802.11n ht20 High Channel - Chain0



Date: 12.APR.2015 11:21:05

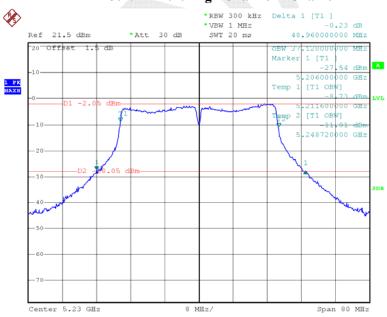
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802.11n ht40 Low Channel - Chain0



Date: 12.APR.2015 11:22:12

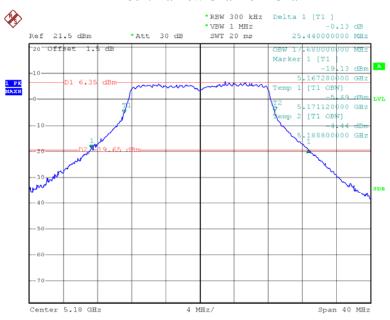
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 11:23:14

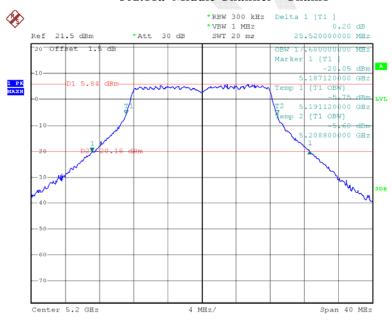
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802.11a Low Channel – Chain1



Date: 12.APR.2015 11:48:27

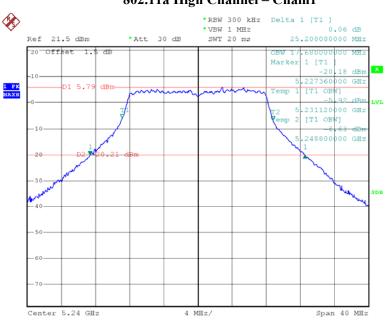
802.11a Middle Channel - Chain1



Date: 12.APR.2015 11:49:08

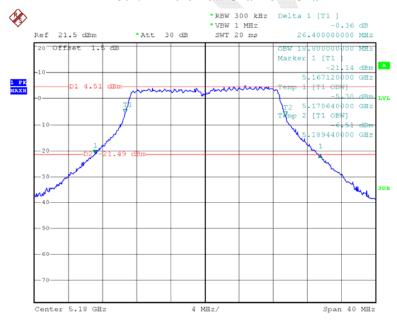
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802.11a High Channel – Chain1



Date: 12.APR.2015 11:49:58

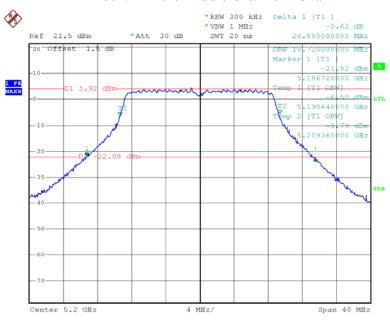
802.11n ht20 Low Channel - Chain1



Date: 12.APR.2015 11:51:07

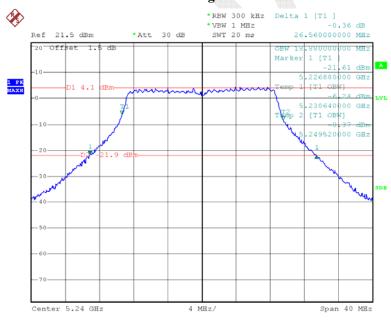
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802.11n ht20 Middle Channel – Chain1



Date: 12.APR.2015 11:52:04

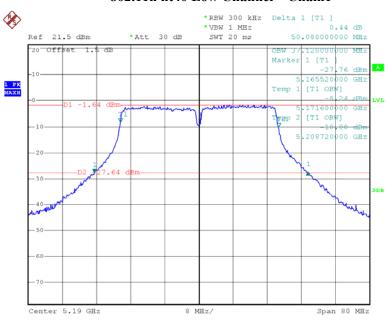
802.11n ht20 High Channel - Chain1



Date: 12.APR.2015 11:52:59

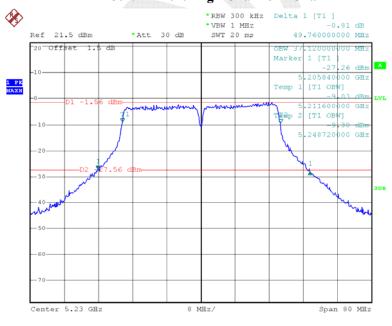
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802.11n ht40 Low Channel - Chain1



Date: 12.APR.2015 11:54:31

802.11n ht40 High Channel - Chain1

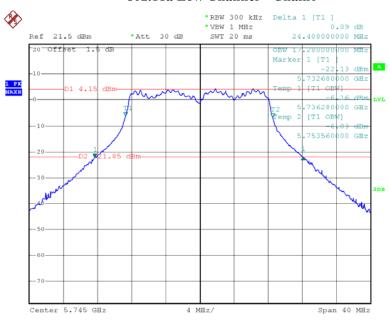


Date: 12.APR.2015 11:55:30

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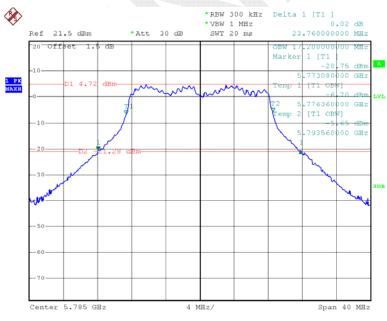
5725MHz-5850MHz: 26 dB Bandwidth

802.11a Low Channel - Chain0



Date: 12.APR.2015 12:22:29

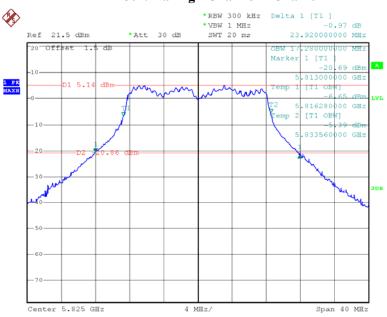
802.11a Middle Channel - Chain0



Date: 12.APR.2015 12:23:40

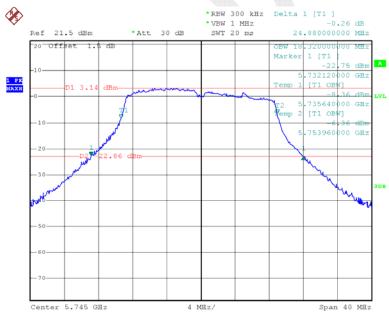
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802.11a High Channel – Chain0



Date: 12.APR.2015 12:24:30

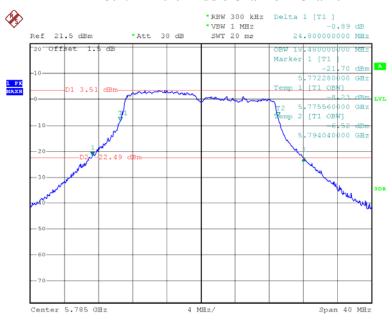
802.11n ht20 Low Channel - Chain0



Date: 12.APR.2015 12:25:29

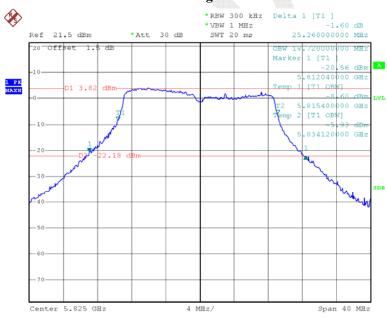
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802.11n ht20 Middle Channel – Chain0



Date: 12.APR.2015 12:26:14

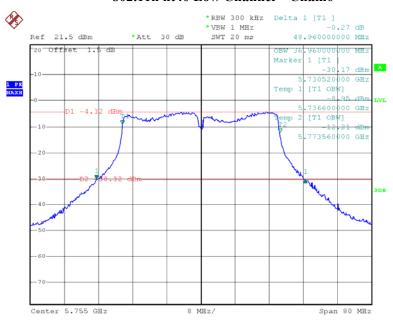
802.11n ht20 High Channel - Chain0



Date: 12.APR.2015 12:27:08

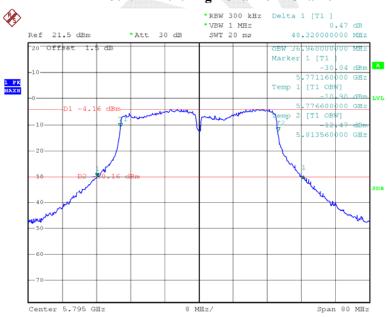
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802.11n ht40 Low Channel - Chain0



Date: 12.APR.2015 12:29:41

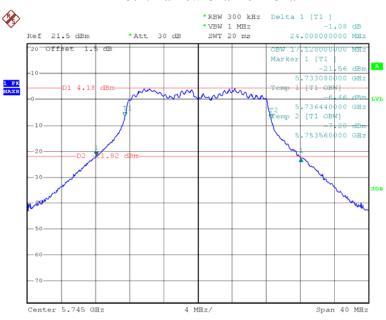
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 12:31:00

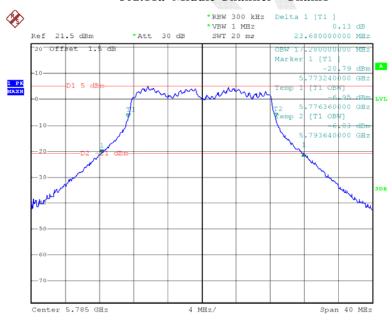
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802.11a Low Channel – Chain1



Date: 12.APR.2015 13:01:00

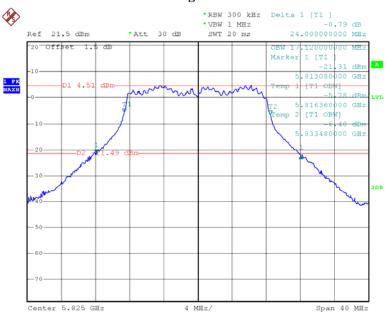
802.11a Middle Channel - Chain1



Date: 12.APR.2015 13:02:01

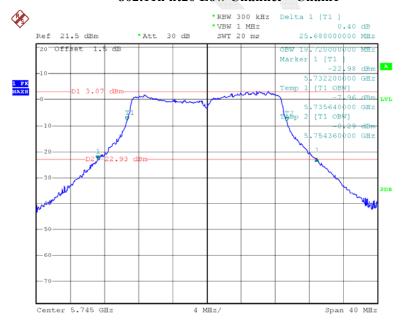
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802.11a High Channel - Chain1



Date: 12.APR.2015 13:02:45

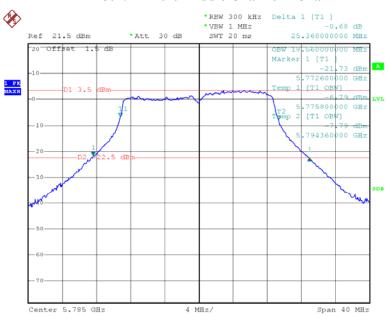
802.11n ht20 Low Channel - Chain1



Date: 12.APR.2015 13:03:51

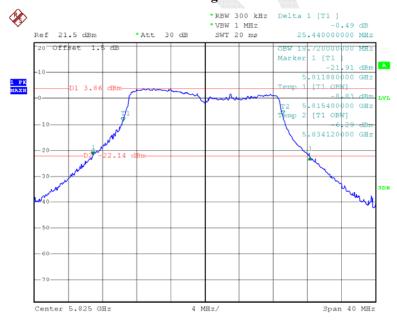
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802.11n ht20 Middle Channel – Chain1



Date: 12.APR.2015 13:06:52

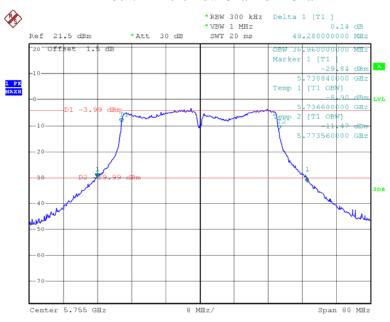
802.11n ht20 High Channel - Chain1



Date: 12.APR.2015 13:07:39

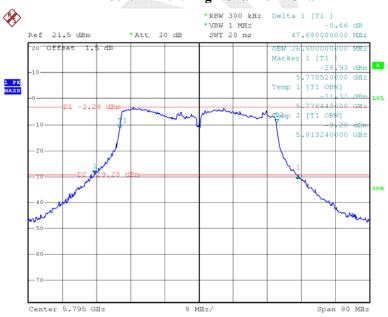
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802.11n ht40 Low Channel - Chain1



Date: 12.APR.2015 13:08:51

802.11n ht40 High Channel - Chain1

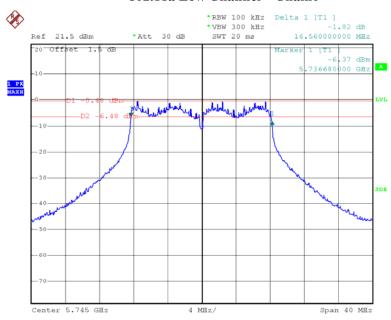


Date: 12.APR.2015 13:09:51

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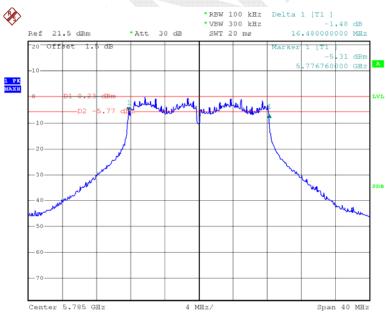
6 dB Bandwidth

802.11a Low Channel - Chain0



Date: 12.APR.2015 12:46:12

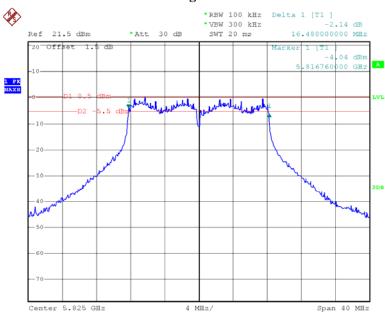
802.11a Middle Channel - Chain0



Date: 12.APR.2015 12:46:59

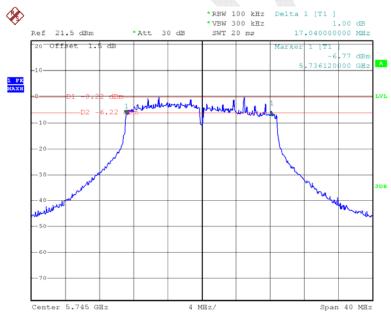
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802.11a High Channel - Chain0



Date: 12.APR.2015 12:47:37

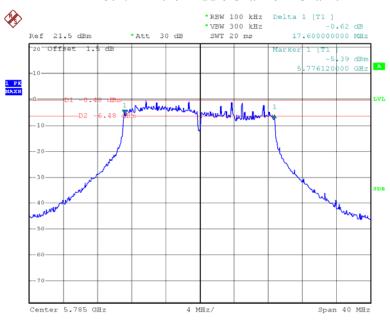
802.11n ht20 Low Channel - Chain0



Date: 12.APR.2015 12:43:56

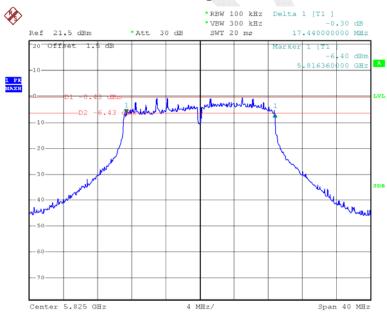
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802.11n ht20 Middle Channel - Chain0



Date: 12.APR.2015 12:44:35

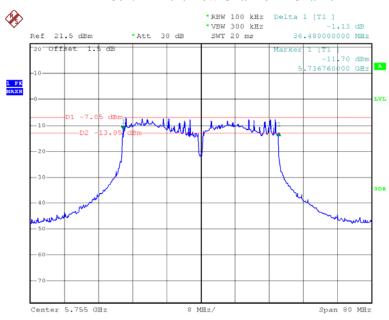
802.11n ht20 High Channel - Chain0



Date: 12.APR.2015 12:45:27

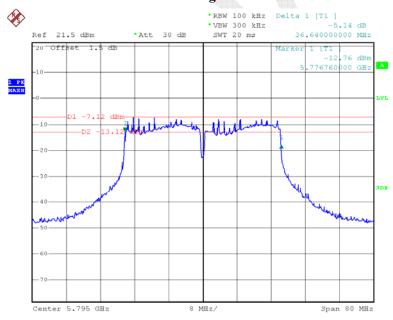
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802.11n ht40 Low Channel - Chain0



Date: 12.APR.2015 12:41:52

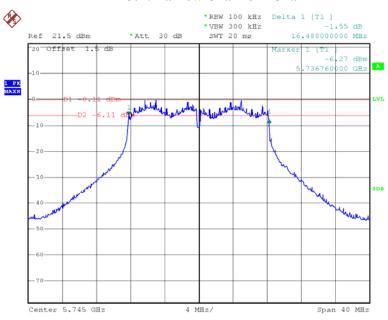
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 12:42:46

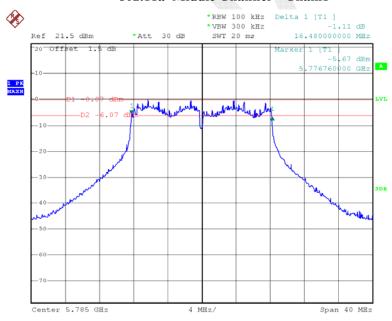
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802.11a Low Channel – Chain1



Date: 12.APR.2015 13:26:59

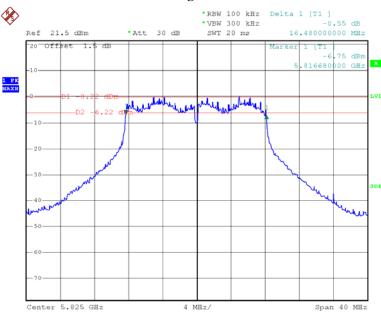
802.11a Middle Channel - Chain1



Date: 12.APR.2015 13:26:12

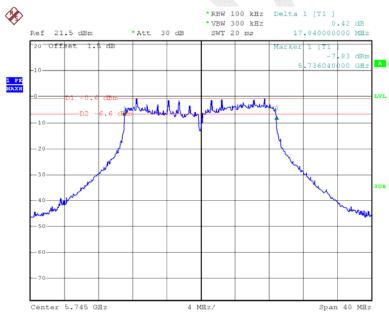
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802.11a High Channel – Chain1



Date: 12.APR.2015 13:25:40

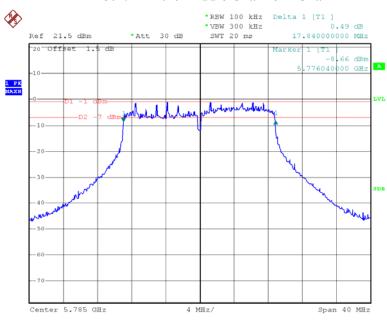
802.11n ht20 Low Channel - Chain1



Date: 12.APR.2015 13:23:53

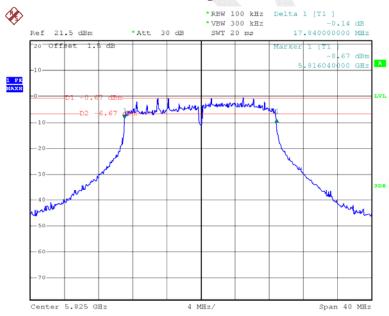
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802.11n ht20 Middle Channel - Chain1



Date: 12.APR.2015 13:24:29

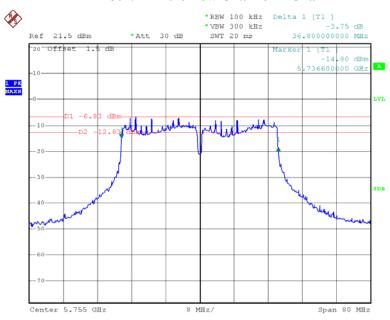
802.11n ht20 High Channel - Chain1



Date: 12.APR.2015 13:25:08

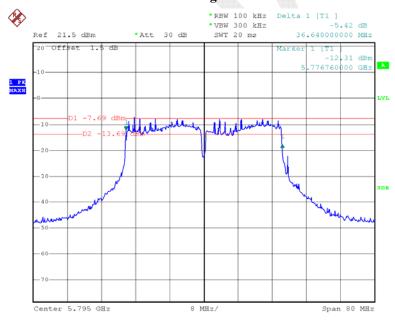
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802.11n ht40 Low Channel - Chain1



Date: 12.APR.2015 13:23:07

802.11n ht40 High Channel - Chain1



Date: 12.APR.2015 13:22:25

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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 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.

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- (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
R&S	Spectrum Analyzer	FSP 38	100478	2014-05-09	2015-05-09

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

Test Procedure

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

Test Data

Environmental Conditions

Temperature:	25.4°C ~26.2 °C
Relative Humidity:	47%~56 %
ATM Pressure:	101.2 kPa ∼101.6 kPa

The testing was performed by Allen Qiao from 2014-11-12 & 2014-11-17.

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Test Mode: Transmitting

5150-5250 MHz band

Mode	Channel	Frequency	Maximum	Result			
		MHz	Chain 0	Chain 1	Total	Limits	Kesuit
802.11a	Low	5180	13.94	14.65	17.32	28	PASS
	Middle	5200	13.89	14.11	17.01	28	PASS
	High	5240	13.46	13.74	16.61	28	PASS
802.11n20	Low	5180	12.36	12.79	15.59	28	PASS
	Middle	5200	12.63	12.51	15.58	28	PASS
	High	5240	12.06	12.33	15.21	28	PASS
802.11n40	Low	5190	8.51	9.79	12.21	28	PASS
	High	5230	8.17	9.54	11.92	28	PASS

5725-5850 MHz band

Mode	Channel	Frequency	Maximum	D14			
		MHz	Chain 0	Chain 1	Total	Limits	Result
	Low	5745	11.21	11.26	14.25	28	PASS
802.11a	Middle	5785	11.47	11.13	14.31	28	PASS
	High	5825	12.00	11.60	14.81	28	PASS
802.11n20	Low	5745	11.02	10.70	13.87	28	PASS
	Middle	5785	10.91	10.73	13.83	28	PASS
	High	5825	11.29	11.04	14.18	28	PASS
802.11n40	Low	5755	7.27	7.42	10.36	28	PASS
	High	5795	7.17	7.20	10.20	28	PASS

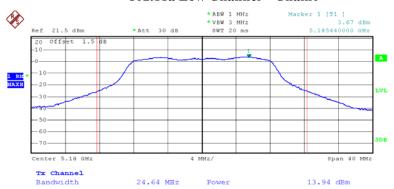
Note: 1. Directional gain = G_{ANT} + 10 log(N_{ANT}) dBi = 8>6dBi , so the limit=30-(8-6)=28dBm

- 2. Duty cycle is 100%.
- 3. The EUT is only for indoor use.

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5150MHz-5250MHz:





Date: 12.APR.2015 11:27:44

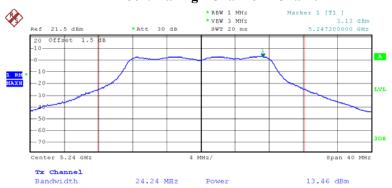
802.11a Middle Channel - Chain0



Date: 12.APR.2015 11:28:09

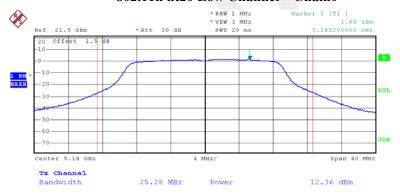
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802.11a High Channel – Chain0



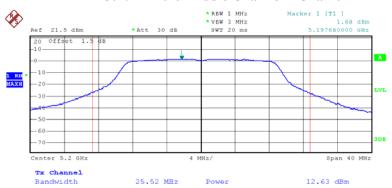
Date: 12.APR.2015 11:28:43

802.11n ht20 Low Channel - Chain0



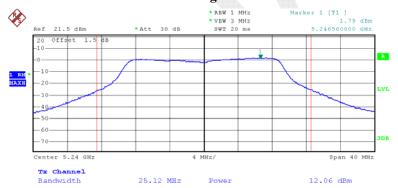
Date: 12.APR.2015 11:25:32

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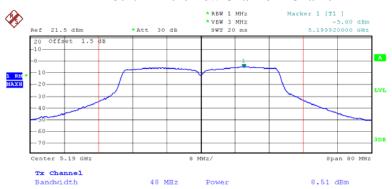
Date: 12.APR.2015 11:26:00

802.11n ht20 High Channel - Chain0



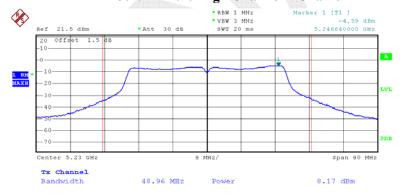
Date: 12.APR.2015 11:26:34

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Date: 12.APR.2015 11:24:36

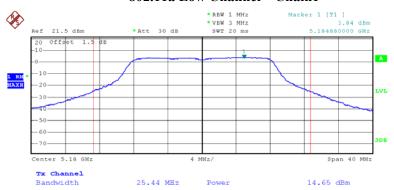
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 11:24:07

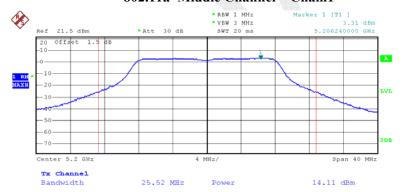
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802.11a Low Channel - Chain1



Date: 12.APR.2015 12:01:42

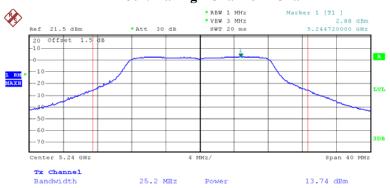
802.11a Middle Channel - Chain1



Date: 12.APR.2015 12:02:11

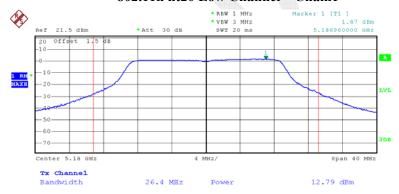
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802.11a High Channel – Chain1



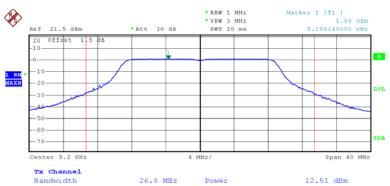
Date: 12.APR.2015 12:02:39

802.11n ht20 Low Channel - Chain1



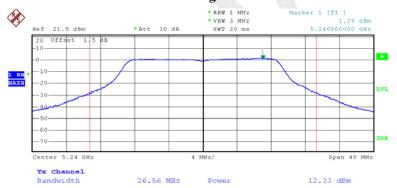
Date: 12.APR.2015 11:59:43

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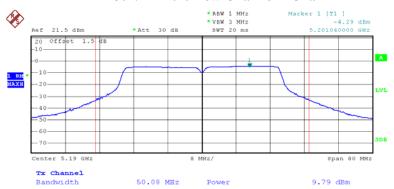
Date: 12.APR.2015 12:00:11

802.11n ht20 High Channel - Chain1



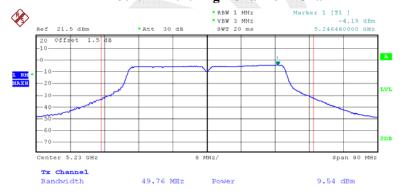
Date: 12.APR.2015 12:00:41

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Date: 12.APR.2015 11:58:45

802.11n ht40 High Channel - Chain1

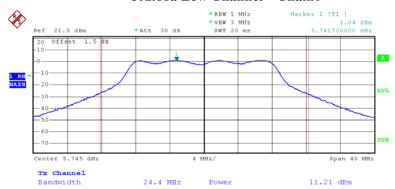


Date: 12.APR.2015 11:58:04

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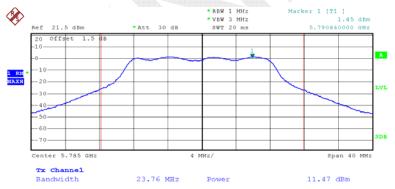
5725MHz-5850MHz:

802.11a Low Channel - Chain0



Date: 12.APR.2015 12:36:15

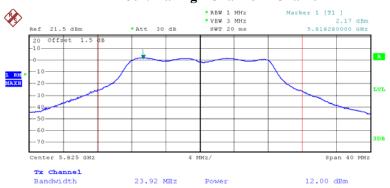
802.11a Middle Channel - Chain0



Date: 12.APR.2015 12:36:47

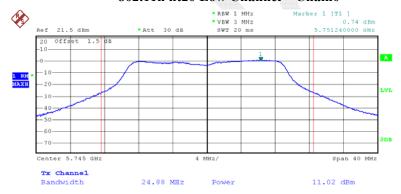
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802.11a High Channel – Chain0



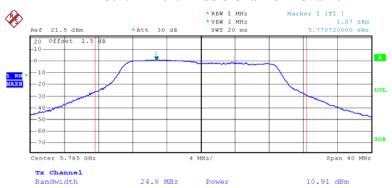
Date: 12.APR.2015 12:37:16

802.11n ht20 Low Channel - Chain0



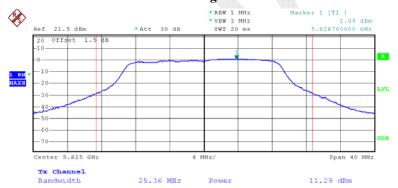
Date: 12.APR.2015 12:34:14

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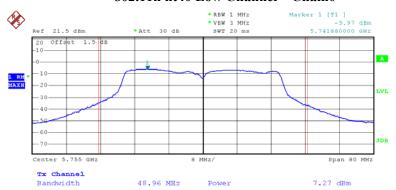
Date: 12.APR.2015 12:34:43

802.11n ht20 High Channel - Chain0



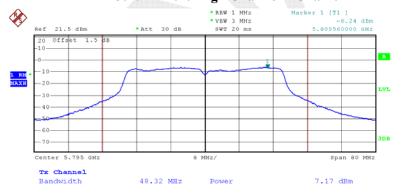
Date: 12.APR.2015 12:35:20

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Date: 12.APR.2015 12:32:40

802.11n ht40 High Channel - Chain0

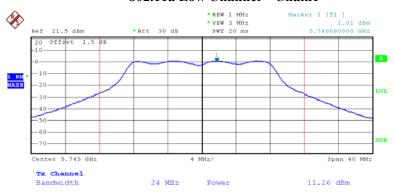


Date: 12.APR.2015 12:31:53

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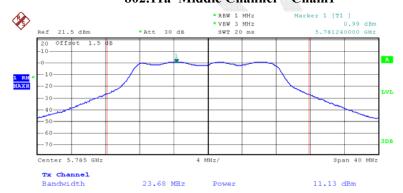
Report No.:RDG150401005-00B

802.11a Low Channel – Chain1



Date: 12.APR.2015 13:14:21

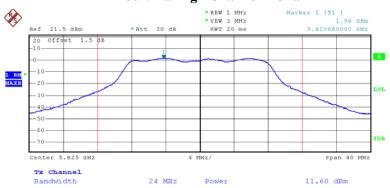
802.11a Middle Channel - Chain1



Date: 12.APR.2015 13:14:53

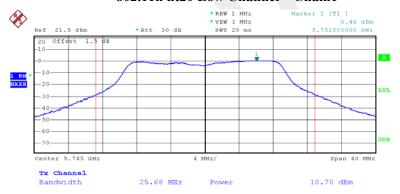
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802.11a High Channel – Chain1



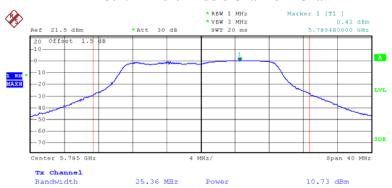
Date: 12.APR.2015 13:15:20

802.11n ht20 Low Channel - Chain1



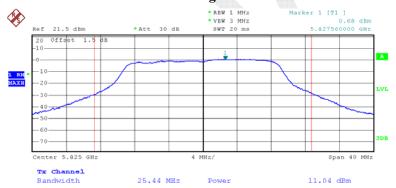
Date: 12.APR.2015 13:12:18

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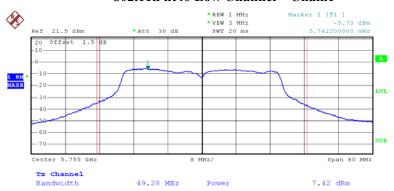
Date: 12.APR.2015 13:13:03

802.11n ht20 High Channel - Chain1



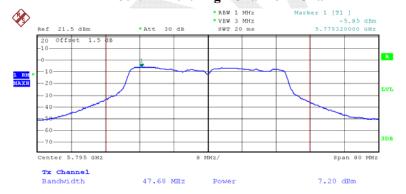
Date: 12.APR.2015 13:13:36

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Date: 12.APR.2015 13:11:20

802.11n ht40 High Channel - Chain1



Date: 12.APR.2015 13:10:30

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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 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 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.

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(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	2014-05-09	2015-05-09

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

Test Data

Environmental Conditions

Temperature:	22.9 °C
Relative Humidity:	54 %
ATM Pressure:	101 kPa

The testing was performed by Allen Qiao on 2015-04-12.

Test Mode: Transmitting

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

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5150MHz-5250MHz:

Mode	Channel	Frequency MHz	PSD (dBm/MHz)			Limit	Result
			Chain0	Chain1	Total	(dBm/MHz)	
802.11a	Low	5180	3.86	3.67	6.78	15	PASS
	Middle	5200	3.38	3.28	6.34	15	PASS
	High	5240	2.88	3.30	6.11	15	PASS
802.11n20	Low	5180	1.78	1.78	4.79	15	PASS
	Middle	5200	1.74	1.45	4.61	15	PASS
	High	5240	1.94	0.93	4.47	15	PASS
802.11n40	Low	5190	-5.14	-4.48	-1.79	15	PASS
	High	5230	-5.07	-4.46	-1.74	15	PASS

Note: 1. Directional gain = G_{ANT} + 10 log(N_{ANT}) dBi

= 8>6dBi , so the limit shall be reduced to17-(8-6)=15dBm

- 2. Duty cycle is 100%.
- 3. The EUT is only for indoor use.

5725MHz-5850MHz:

Mode	Channel	Frequency	Power Spectral Density (dBm/300kHz)		Power Spectral Density (dBm/500kHz)			
		MHz	Chain 0	Chain 1	Chain0 Integrated Value	Chain 1 Integrated Value	Total	Limits (dBm/500kHz)
	Low	5745	-3.32	-2.55	-1.10	-0.33	2.31	28
802.11a	Middle	5785	-2.75	-1.99	-0.53	0.23	2.88	28
	High	5825	-2.44	-2.09	-0.22	0.13	2.97	28
802.11n20	Low	5745	-3.82	-3.67	-1.60	-1.45	1.48	28
	Middle	5785	-2.77	-3.96	-0.55	-1.74	1.90	28
	High	5825	-2.80	-2.19	-0.58	0.03	2.74	28
802.11n40	Low	5755	-10.34	-9.84	-8.12	-7.62	-4.85	28
	High	5795	-10.58	-10.75	-8.36	-8.53	-5.44	28

Note: If measurement bandwidth of Maximum PSD is specified in $500 \, \text{kHz}$, add $10 \log (500 \, \text{kHz/RBW})$ to the measured result, whereas RBW (< $500 \, \text{KHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

Note: 1. Directional gain = G_{ANT} + 10 log(N_{ANT}) dBi

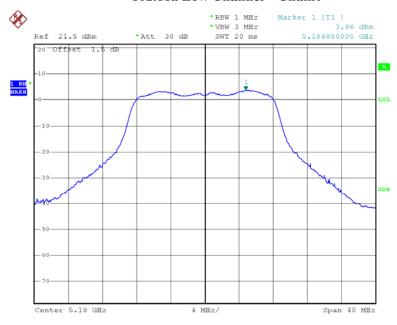
= 8 > 6dBi , so the limit shall be reduced to 30-(8-6)=28dBm

- 2. Duty cycle is 100%.
- 3. The EUT is only for indoor use.

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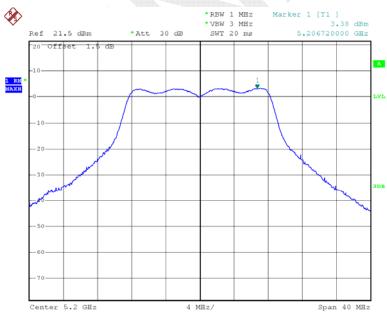
5150MHz-5250MHz:

802.11a Low Channel - Chain0



Date: 12.APR.2015 11:29:33

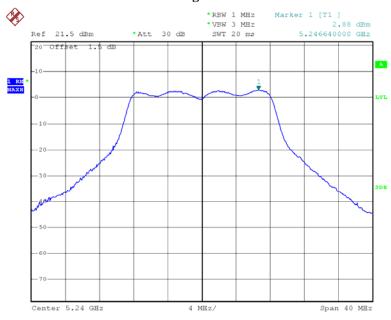
802.11a Middle Channel - Chain0



Date: 12.APR.2015 11:29:12

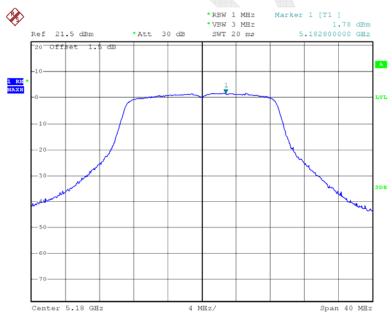
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802.11a High Channel – Chain0



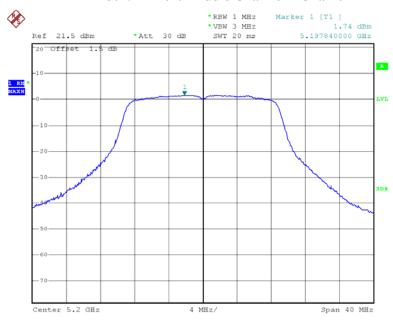
Date: 12.APR.2015 11:28:55

802.11n ht20 Low Channel - Chain0



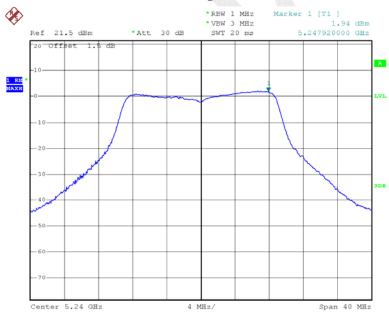
Date: 12.APR.2015 11:30:04

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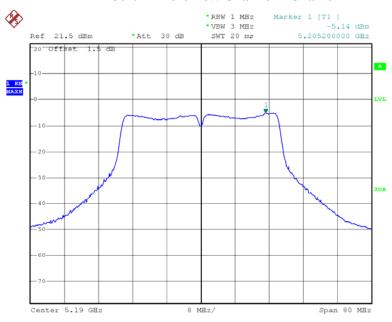
Date: 12.APR.2015 11:30:22

802.11n ht20 High Channel - Chain0



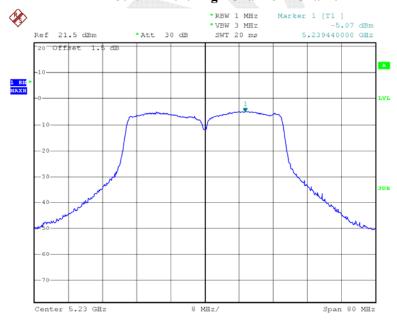
Date: 12.APR.2015 11:30:46

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Date: 12.APR.2015 11:31:15

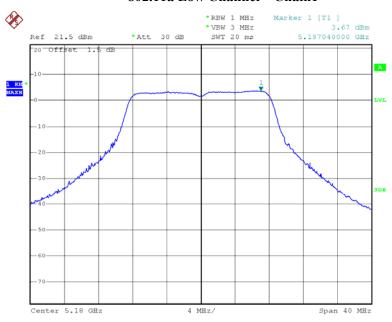
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 11:31:34

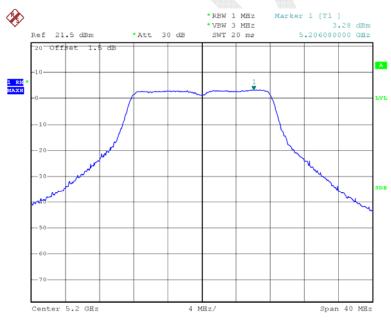
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802.11a Low Channel - Chain1



Date: 12.APR.2015 12:03:34

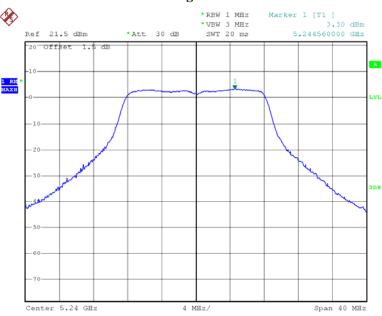
802.11a Middle Channel - Chain1



Date: 12.APR.2015 12:03:14

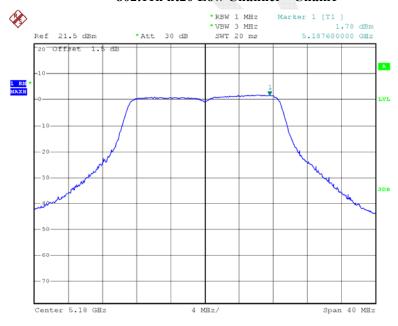
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802.11a High Channel – Chain1



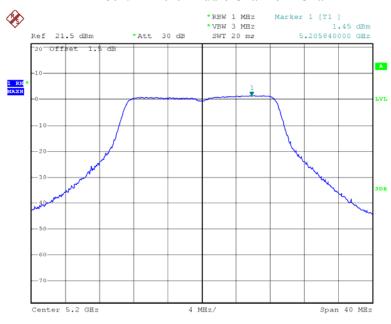
Date: 12.APR.2015 12:02:55

802.11n ht20 Low Channel - Chain1



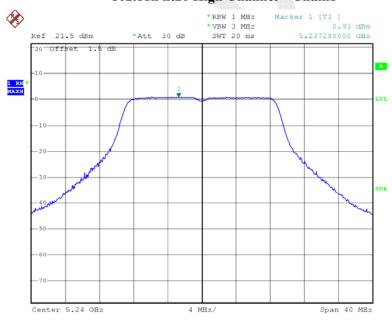
Date: 12.APR.2015 12:04:12

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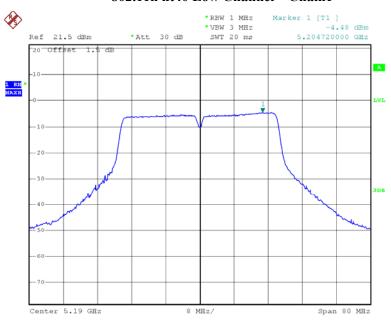
Date: 12.APR.2015 12:04:31

802.11n ht20 High Channel - Chain1



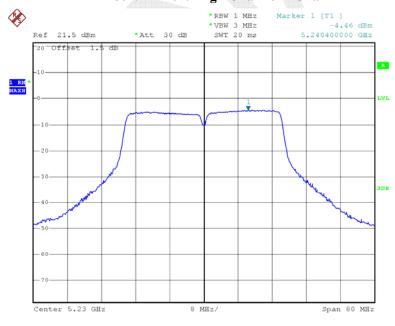
Date: 12.APR.2015 12:04:57

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Date: 12.APR.2015 12:05:27

802.11n ht40 High Channel - Chain1

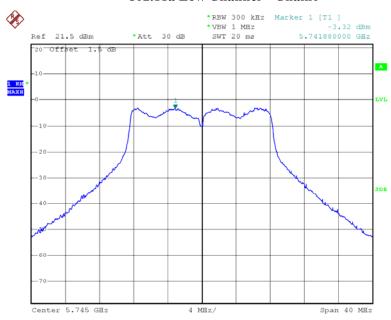


Date: 12.APR.2015 12:05:48

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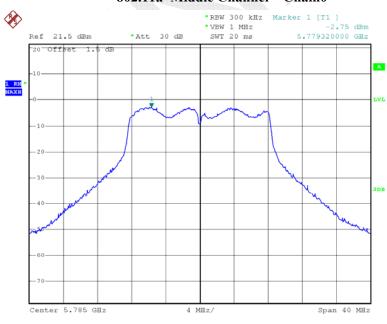
5725MHz-5850MHz:

802.11a Low Channel - Chain0



Date: 12.APR.2015 13:43:13

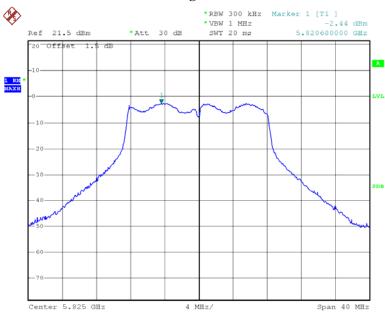
802.11a Middle Channel - Chain0



Date: 12.APR.2015 13:43:30

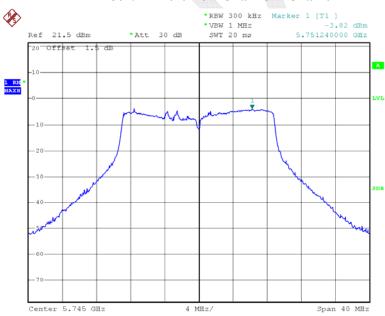
FCC Part 15.407 Page 152 of 160

802.11a High Channel - Chain0



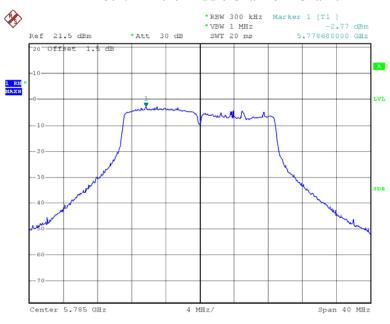
Date: 12.APR.2015 13:43:47

802.11n ht20 Low Channel - Chain0



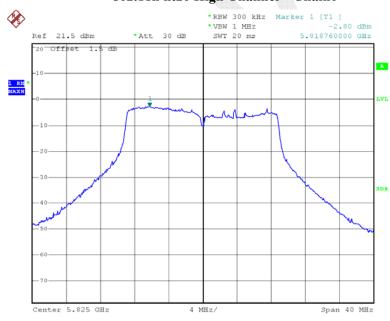
Date: 12.APR.2015 13:42:55

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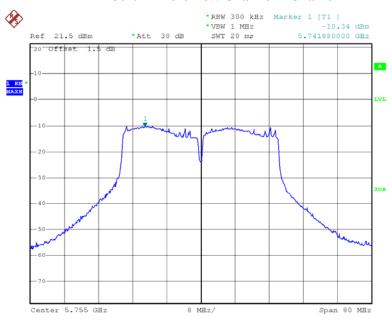
Date: 12.APR.2015 13:42:39

802.11n ht20 High Channel - Chain0



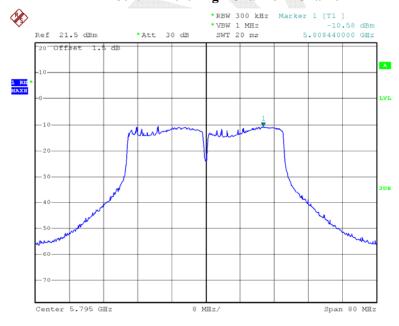
Date: 12.APR.2015 13:42:19

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Date: 12.APR.2015 13:44:13

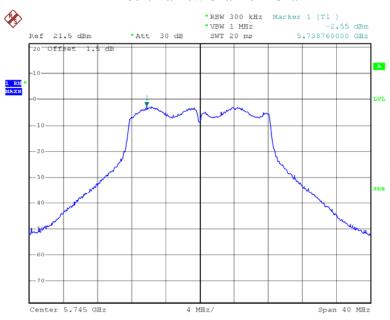
802.11n ht40 High Channel - Chain0



Date: 12.APR.2015 13:44:29

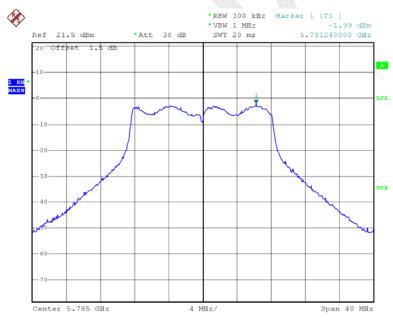
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802.11a Low Channel – Chain1



Date: 12.APR.2015 13:18:33

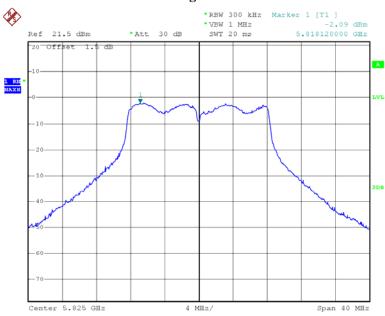
802.11a Middle Channel - Chain1



Date: 12.APR.2015 13:18:51

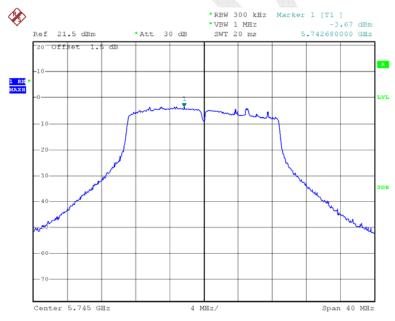
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802.11a High Channel - Chain1



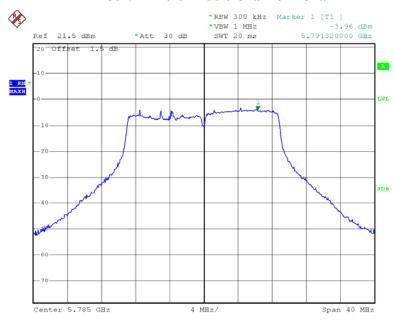
Date: 12.APR.2015 13:19:21

802.11n ht20 Low Channel - Chain1



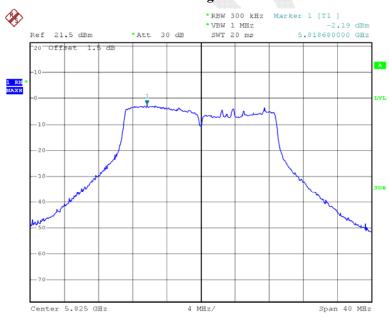
Date: 12.APR.2015 13:20:41

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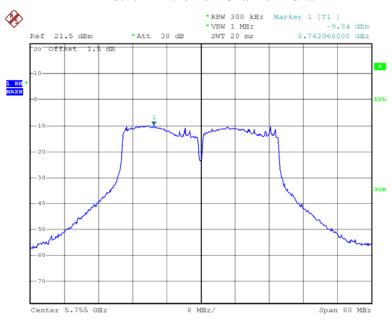
Date: 12.APR.2015 13:20:10

802.11n ht20 High Channel - Chain1



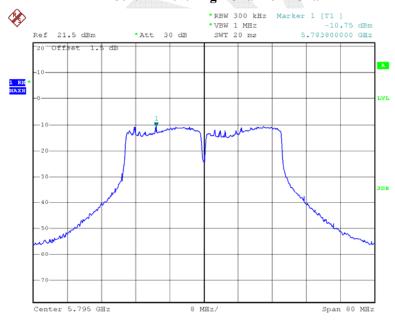
Date: 12.APR.2015 13:19:47

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Date: 12.APR.2015 13:21:17

802.11n ht40 High Channel - Chain1



Date: 12.APR.2015 13:21:35

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DECLARATION LETTER

Declaration of Alteration

To Whom It May Concern,

We, Iconnect, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

(This is for your reference only.)							
Products Brand		Э	Concurrent Dual-Radios 2.4GHz+5GHz MIMO AP/CPE				
		ALFA					
Description	Manu	ıfacturer	Iconnect				
Pro		ct No.	RDG150401005				
Differences Description							
Testing Products		Multiple Models		Differences	Details		
				Items			
AP120C Matrix-Pro,N		Iatrix,AP120C-AC,	Model name	They are the same			
Matrix-Pro-A		.C,Matrix-AC,		product, and just			
AP120C-ACU		U,AP120RC,		have the different			
AP120RC-AC		C,AP120RC-ACU		model name.			

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:

Print Name: Johnson Wang

Title: Manager

ADD: No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan. Tel: 886-2-27968477 Fax: 886-2-27968478 E-mail: admin@iconnect.com.tw

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

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