

FCC RADIO TEST REPORT

Applicant's company	Proxim Wireless Corporation
Applicant Address	1561 Buckeye Drive, Milpitas, CA 95035, USA
FCC ID	HZB-MB83HP5
Manufacturer's company	Proxim Wireless Corporation
Manufacturer Address	1561 Buckeye Drive, Milpitas, CA 95035, USA

Product Name	802.11 a/b/g/n Mini-PCI module
Brand Name	Proxim
Model Name	MB82HP
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	5725 ~ 5850MHz
Received Date	Jun. 14, 2012
Final Test Date	Aug. 09, 2012
Submission Type	Original Equipment



Statement

Test result included is only for the IEEE 802.11n and IEEE 802.11a (5725 ~ 5850MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.10-2009**,

47 CFR FCC Part 15 Subpart C and KDB 789033 – 20120305.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.

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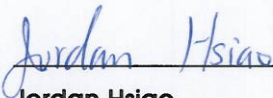
History of This Test Report

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR062219-03AB	Rev. 01	Initial issue of report	Oct. 09, 2012

1. CERTIFICATE OF COMPLIANCE

Product Name : 802.11 a/b/g/n Mini-PCI module
Brand Name : Proxim
Model Name : MB82HP
Applicant : Proxim Wireless Corporation
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Jun. 14, 2012 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Jordan Hsiao

SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
4.1	15.207	AC Power Line Conducted Emissions	Complies	7.87 dB
4.2	15.247(b)(3)	Peak Output Power	Complies	0.01 dB
4.3	-	Average Output Power	-	-
4.4	15.247(e)	Power Spectral Density	Complies	4.93 dB
4.5	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.6	15.247(d)	Radiated Emissions	Complies	0.37dB
4.7	15.247(d)	Band Edge Emissions	Complies	-
4.8	15.203	Antenna Requirements	Complies	-

Note 1: The module (Model number: MB82HP) is Limited Module Approval and only limited to install to the AP (Proxim / MP 8200).

Note 2: During operating, the different antenna is placed in different direction.
Therefore, it will not be affected by array gain.

Note 3: This EUT supports only 4.9G and 5GHz 11a/n without other frequency band.
The 2.4GHz band is disabled by firmware.

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1GHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7°C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

3. GENERAL INFORMATION

3.1. Product Details

IEEE 802.11n

Items	Description
Product Type	WLAN (2/3TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	From DC power supply
Modulation	see the below table for IEEE 802.11n
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	see the below table for IEEE 802.11n
Frequency Range	5725 ~ 5850MHz
Channel Number	5 for 20MHz bandwidth ; 2 for 40MHz bandwidth
Channel Band Width (99%)	<P to M 3TX> Mode 1 MCS0 (5MHz): 5.78 MHz ; MCS0 (10MHz): 10.68 MHz ; MCS0 (20MHz): 24.08 MHz ; MCS0 (40MHz): 38.64 MHz Mode 2 MCS0 (5MHz): 5.78 MHz ; MCS0 (10MHz): 10.68 MHz ; MCS0 (20MHz): 24.08 MHz ; MCS0 (40MHz): 38.64 MHz Mode 3 MCS0 (5MHz): 5.84MHz ; MCS0 (10MHz): 10.84 MHz ; MCS0 (20MHz): 18.72 MHz ; MCS0 (40MHz): 38.76 MHz Mode 4 MCS0 (5MHz): 5.78 MHz ; MCS0 (10MHz): 10.68 MHz ; MCS0 (20MHz): 24.08 MHz ; MCS0 (40MHz): 38.64 MHz <P to P 3TX> Mode 1 MCS0 (5MHz): 5.84 MHz ; MCS0 (10MHz): 10.84 MHz ; MCS0 (20MHz): 17.76 MHz ; MCS0 (40MHz): 35.16 MHz Mode 2 MCS0 (5MHz): 5.84 MHz ; MCS0 (10MHz): 10.84 MHz ; MCS0 (20MHz): 17.76 MHz ; MCS0 (40MHz): 35.16 MHz Mode 3 MCS0 (5MHz): 5.84 MHz ; MCS0 (10MHz): 10.84 MHz ; MCS0 (20MHz): 17.76 MHz ; MCS0 (40MHz): 17.28 MHz

	Mode 4 MCS0 (5MHz): 5.84 MHz ; MCS0 (10MHz): 10.84 MHz ; MCS0 (20MHz): 17.76 MHz ; MCS0 (40MHz): 35.16 MHz <P to M 2TX> Mode 5 MCS0 (5MHz): 5.72 MHz ; MCS0 (10MHz): 10.48 MHz ; MCS0 (20MHz): 18.56 MHz <P to P 2TX> Mode 5 MCS0 (5MHz): 6.18 MHz ; MCS0 (10MHz): 11.68 MHz ; MCS0 (20MHz): 20.32 MHz
Conducted Output Power	<P to M 3TX> Mode 1 MCS0 (5MHz): 27.97 dBm ; MCS0 (10MHz): 27.99 dBm ; MCS0 (20MHz): 27.70 dBm ; MCS0 (40MHz): 27.80 dBm Mode 2 MCS0 (5MHz): 27.97 dBm ; MCS0 (10MHz): 27.99 dBm ; MCS0 (20MHz): 27.70 dBm ; MCS0 (40MHz): 27.80 dBm Mode 3 MCS0 (5MHz): 29.89 dBm ; MCS0 (10MHz): 29.94 dBm ; MCS0 (20MHz): 29.90 dBm ; MCS0 (40MHz): 29.24dBm Mode 4 MCS0 (5MHz): 27.97 dBm ; MCS0 (10MHz): 27.99 dBm ; MCS0 (20MHz): 27.70 dBm ; MCS0 (40MHz): 27.80 dBm <P to P 3TX> Mode 1 MCS0 (5MHz): 29.89 dBm ; MCS0 (10MHz): 29.94 dBm ; MCS0 (20MHz): 29.98 dBm ; MCS0 (40MHz): 29.95 dBm Mode 2 MCS0 (5MHz): 29.89 dBm ; MCS0 (10MHz): 29.94 dBm ; MCS0 (20MHz): 29.98 dBm ; MCS0 (40MHz): 29.95 dBm Mode 3 MCS0 (5MHz): 29.89 dBm ; MCS0 (10MHz): 29.94 dBm ; MCS0 (20MHz): 29.98 dBm ; MCS0 (40MHz): 29.95 dBm Mode 4 MCS0 (5MHz): 29.89 dBm ; MCS0 (10MHz): 29.94 dBm ; MCS0 (20MHz): 29.98 dBm ; MCS0 (40MHz): 29.95 dBm

	<P to M 2TX> Mode 5 MCS0 (5MHz): 23.93 dBm ; MCS0 (10MHz): 23.86 dBm ; MCS0 (20MHz): 23.77 dBm <P to P 2TX> Mode 5 MCS0 (5MHz): 29.71 dBm ; MCS0 (10MHz): 29.58 dBm ; MCS0 (20MHz): 29.53 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

IEEE802.11a

Items	Description
Product Type	WLAN (2/3TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	From DC power supply
Modulation	OFDM for IEEE 802.11a
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	OFDM (6/9/12/18/24/36/48/54)
Frequency Range	5725 ~ 5850MHz
Channel Number	5
Channel Band Width (99%)	<P to M 3TX> Mode 1 11a (5MHz): 5.14 MHz ; 11a (10MHz): 9.40 MHz ; 11a (20MHz): 16.72 MHz Mode 2 11a (5MHz): 5.14 MHz ; 11a (10MHz): 9.40 MHz ; 11a (20MHz): 16.72 MHz Mode 3 11a (5MHz): 5.32 MHz ; 11a (10MHz): 9.68 MHz ; 11a (20MHz): 17.28 MHz Mode 4 11a (5MHz): 5.14 MHz ; 11a (10MHz): 9.40 MHz ; 11a (20MHz): 16.72 MHz <P to P 3TX> Mode 1 11a (5MHz): 5.32 MHz ; 11a (10MHz): 9.68 MHz ; 11a (20MHz): 17.28 MHz

	Mode 2 11a (5MHz): 5.32MHz ; 11a (10MHz): 9.68MHz ; 11a (20MHz): 17.28 MHz Mode 3 11a (5MHz): 5.32 MHz ; 11a (10MHz): 9.68 MHz ; 11a (20MHz): 17.28 MHz Mode 4 11a (5MHz): 5.32MHz ; 11a (10MHz): 9.68 MHz ; 11a (20MHz): 17.28 MHz <P to M 2TX> Mode 5 11a (5MHz): 5.26 MHz ; 11a (10MHz): 9.60 MHz ; 11a (20MHz): 17.12 MHz <P to P 2TX> Mode 5 11a (5MHz): 5.84 MHz ; 11a (10MHz): 11.12 MHz ; 11a (20MHz): 18.96 MHz
Conducted Output Power	<P to M 3TX> Mode 1 11a (5MHz): 27.96dBm; 11a (10MHz): 27.98 dBm ; 11a (20MHz): 27.96 dBm Mode 2 11a (5MHz): 27.96dBm; 11a (10MHz): 27.98 dBm ; 11a (20MHz): 27.96 dBm Mode 3 11a (5MHz): 29.87dBm; 11a (10MHz): 29.98 dBm ; 11a (20MHz): 29.99dBm Mode 4 11a (5MHz): 27.96dBm; 11a (10MHz): 27.98 dBm ; 11a (20MHz): 27.96 dBm <P to P 3TX> Mode 1 11a (5MHz): 29.87 dBm ; 11a (10MHz): 29.98 dBm ; 11a (20MHz): 29.99 dBm Mode 2 11a (5MHz): 29.87 dBm ; 11a (10MHz): 29.98 dBm ; 11a (20MHz): 29.99 dBm

	Mode 3 11a (5MHz): 29.87 dBm ; 11a (10MHz): 29.98 dBm ; 11a (20MHz): 29.99 dBm Mode 4 11a (5MHz): 29.87 dBm ; 11a (10MHz): 29.98 dBm ; 11a (20MHz): 29.99 dBm <P to M 2TX> Mode 5 11a (5MHz): 23.88 dBm ; 11a (10MHz): 23.83 dBm ; 11a (20MHz): 23.74 dBm <P to P 2TX> Mode 5 11a (5MHz): 29.70 dBm ; 11a (10MHz): 29.66 dBm ; 11a (20MHz): 29.53 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Antenna & Band width

Antenna	Two (TX)				Three (TX)			
Band width Mode	5 MHz	10 MHz	20 MHz	40 MHz	5 MHz	10 MHz	20 MHz	40 MHz
IEEE 802.11a	V	V	V	X	V	V	V	X
IEEE 802.11n	V	V	V	X	V	V	V	V

IEEE 802.11n spec

MCS	Spatial	Modulation	Coding	Data rate (Mbit/s)			
index	streams	type	rate	20 MHz channel		40 MHz channel	
				800 ns GI	400 ns GI	800 ns GI	400 ns GI
0	1	BPSK	1/2	6.5	7.2	13.5	15
1	1	QPSK	1/2	13	14.4	27	30
2	1	QPSK	3/4	19.5	21.7	40.5	45
3	1	16-QAM	1/2	26	28.9	54	60
4	1	16-QAM	3/4	39	43.3	81	90
5	1	64-QAM	2/3	52	57.8	108	120
6	1	64-QAM	3/4	58.5	65	121.5	135
7	1	64-QAM	5/6	65	72.2	135	150
8	2	BPSK	1/2	13	14.4	27	30
9	2	QPSK	1/2	26	28.9	54	60
10	2	QPSK	3/4	39	43.3	81	90
11	2	16-QAM	1/2	52	57.8	108	120
12	2	16-QAM	3/4	78	86.7	162	180
13	2	64-QAM	2/3	104	115.6	216	240
14	2	64-QAM	3/4	117	130	243	270
15	2	64-QAM	5/6	130	144.4	270	300
16	3	BPSK	1/2	19.5	21.7	40.5	45
17	3	QPSK	1/2	39	43.3	81	90
18	3	QPSK	3/4	58.5	65	121.5	135
19	3	16-QAM	1/2	78	86.7	162	180
20	3	16-QAM	3/4	117	130	243	270
21	3	64-QAM	2/3	156	173.3	324	360
22	3	64-QAM	3/4	175.5	195	364.5	405
23	3	64-QAM	5/6	195	216.7	405	450

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	guard interval

IEEE 802. 11a and 11n

P to M / P to P

Worst Modulation Used for Conformance Testing				
Protocol	Number of Transmit Chains (NTX)	Data Rate / MCS	Worst Data Rate / MCS	Worst Modulation Mode
802.11a	3	6-54 Mbps	6Mbps	11A5.8G-5M
802.11a	3	6-54 Mbps	6Mbps	11A5.8G-10M
802.11a	3	6-54 Mbps	6Mbps	11A5.8G-20M
802.11a	2	6-54 Mbps	6Mbps	11A5.8G-5M
802.11a	2	6-54 Mbps	6Mbps	11A5.8G-10M
802.11a	2	6-54 Mbps	6Mbps	11A5.8G-20M
802.11n	3	MCS 0-15	MCS 0 / 7.2Mbps	11N5.8G-5M
802.11n	3	MCS 0-15	MCS 0 / 14.4Mbps	11N5.8G-10M
802.11n	3	MCS 0-15	MCS 0 / 7.2Mbps	11N5.8G-20M
802.11n	3	MCS 0-15	MCS 0 / 14.4Mbps	11N5.8G-40M
802.11n	2	MCS 0-15	MCS 0 / 6.5Mbps	11N5.8G-5M
802.11n	2	MCS 0-15	MCS 0 / 13.5Mbps	11N5.8G-10M
802.11n	2	MCS 0-15	MCS 0 / 6.5Mbps	11N5.8G-20M
Note 1: IEEE Std. 802.11-2007 modulation consists of IEEE Std. 802.11a-1999.				
Note 2: IEEE Std. 802.11n-2009 modulation consists of HT20 and HT40 (HT: High Throughput). Then EUT support HT20 and HT40. Worst modulation mode of Guard Interval (GI) is 400ns.				
Note 3: Modulation modes consist of 11A5.8G-5M, 11A5.8G-10M, 11A5.8G-20M, 11N5.8G-5M, 11N5.8G-10M, 11N5.8G-20M, 11N5.8G-40M.				
11A: IEEE 802.11a, 11N: IEEE 802.11n. 5.8G: 5.725-5.850GHz band				
5M/10M/20M/40M: Channel Bandwidth 5M/10MHz/20MHz/40MHz				

3.2. Accessories

N/A

3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Chain	Attenuator (dBi)	Connector	Antenna Gain	Cable loss	Test Ant Gain (dBi)
1	MARS	MA-WA55-30	Panel	1/2/3	20	N-Type, Female	30	2	8
2	MARS	MA-WB55-20	Sector	1/2/3	10	N-Type, Female	20	2	8
3	SmartAnt	USI05-220170	Dipole	1/2/3	-	RP SMA Plug	5	1	4
4	MARS	MA-WO55-10NH	Ommi	1/2/3	-	N-Type, Female / N-Type, Male (optional)	10	2	8
5	CommScope	PX3F-52-N7A	Dish	1/3	20	N Female	34	2	12
6	MARS	MA-WA56-DP25N	Panel	1/3	20	N-Type, Female	23.5	2	1.5
7	MARS	MA-WD56-DP16	Sector	1/3	10	N-Type, Female	16	2	4

Note: There are 7 antennas in the antenna table list.

Only antenna 1 to 5 were selected to perform the test and written in this report due to the highest gain.

Table of TX/RX Function in each antenna:

Item			Module					
			Chain 1		Chain 2		Chain 3	
			TX	RX	TX	RX	TX	RX
Ant.1	5GHz	11a	V	V	V	V	V	V
		11n	V	V	V	V	V	V
Ant.2	5GHz	11a	V	V	V	V	V	V
		11n	V	V	V	V	V	V
Ant.3	5GHz	11a	V	V	V	V	V	V
		11n	V	V	V	V	V	V
Ant.4	5GHz	11a	V	V	V	V	V	V
		11n	V	V	V	V	V	V
Ant.5	5GHz	11a	V	V	X	X	V	V
		11n	V	V	X	X	V	V

Note : The EUT can support both 2TX and 3TX functions.

Ant. 1~Ant. 4 for 3TX functions.

IEEE 802.11a/n mode (3TX, 3RX)

Chain 1, Chain 2 and Chain 3 can be used as transmitting/receiving antennas.

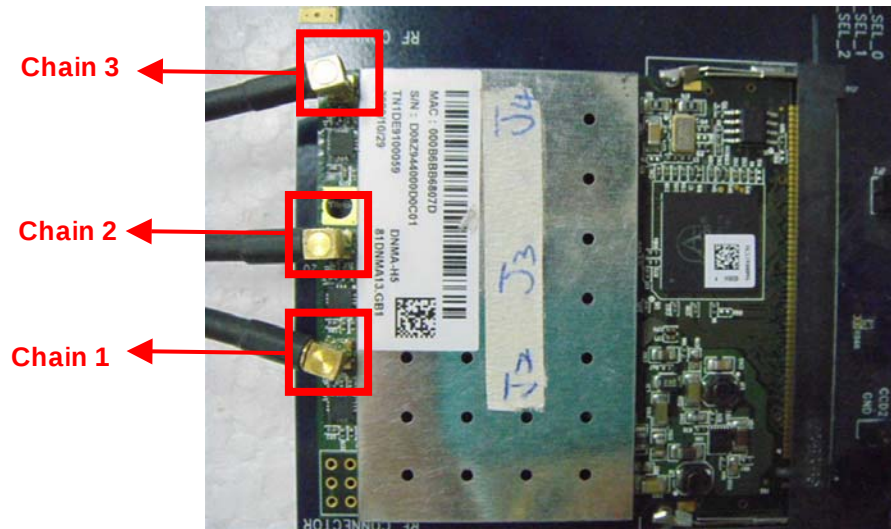
Chain 1, Chain 2 and Chain 3 could transmit/receive simultaneously.

Ant. 5~Ant. 7 for 2TX functions.

IEEE 802.11a/n mode (2TX, 2RX)

Chain 1 and Chain 3 can be used as transmitting/receiving antennas.

Chain 1 and Chain 3 could transmit/receive simultaneously.



Module	Required 2TX Port
5G	Chain 1 and Chain 3

Module	Required 3TX Port
5G	Chain 1 and Chain 2 and Chain 3

3.4. Table for Carrier Frequencies

There are four bandwidth systems.

For 5MHz bandwidth systems, use Channel 148, 157, 166.

For 10MHz bandwidth systems, use Channel 149, 157, 165.

For 20MHz bandwidth systems, use Channel 149, 153, 157, 161, 165.

For 40MHz bandwidth systems, use Channel 151, 159.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5725~5850 MHz Band 4	148	5740 MHz	158	5790 MHz
	149	5745 MHz	159	5795 MHz
	150	5750 MHz	160	5800 MHz
	151	5755 MHz	161	5805 MHz
	152	5760 MHz	162	5810 MHz
	153	5765 MHz	163	5815 MHz
	154	5770 MHz	164	5820 MHz
	155	5775 MHz	165	5825 MHz
	156	5780 MHz	166	5830 MHz
	157	5785 MHz	-	-

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item.

Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

P to M / P to P (3TX)

Test Items	Mode	Data Rate	Channel	Chain
AC Power Line Conducted Emissions	CTX	Auto	-	-
Peak Output Power	MCS0/5MHz	7.2Mbps	148/157/199	1/2/3/1+2+3
Average Output Power	MCS0/10MHz	14.4Mbps	149/157/165	1/2/3/1+2+3
Power Spectral Density	MCS0/20MHz	7.2Mbps	149/157/165	1/2/3/1+2+3
	MCS0/40MHz	14.4Mbps	151/159	1/2/3/1+2+3
	11a 5MHz	6Mbps	148/157/199	1/2/3/1+2+3
	11a 10MHz	6Mbps	149/157/165	1/2/3/1+2+3
	11a 20MHz	6Mbps	149/157/165	1/2/3/1+2+3
6dB Spectrum Bandwidth	MCS0/5MHz	7.2Mbps	148/157/199	1+2+3
	MCS0/10MHz	14.4Mbps	149/157/165	1+2+3
	MCS0/20MHz	7.2Mbps	149/157/165	1+2+3
	MCS0/40MHz	14.4Mbps	151/159	1+2+3
	11a 5MHz	6Mbps	148/157/199	1+2+3
	11a 10MHz	6Mbps	149/157/165	1+2+3
	11a 20MHz	6Mbps	149/157/165	1+2+3
Radiated Emissions Below 1GHz	CTX	Auto	-	-
Radiated Emissions Above 1GHz	MCS0/5MHz	7.2Mbps	148/157/199	1+2+3
	MCS0/10MHz	14.4Mbps	149/157/165	1+2+3
	MCS0/20MHz	7.2Mbps	149/157/165	1+2+3
	MCS0/40MHz	14.4Mbps	151/159	1+2+3
	11a 5MHz	6Mbps	148/157/199	1+2+3
	11a 10MHz	6Mbps	149/157/165	1+2+3
	11a 20MHz	6Mbps	149/157/165	1+2+3
Band Edge Emissions	MCS0/5MHz	7.2Mbps	148/157/199	1+2+3
	MCS0/10MHz	14.4Mbps	149/157/165	1+2+3
	MCS0/20MHz	7.2Mbps	149/157/165	1+2+3
	MCS0/40MHz	14.4Mbps	151/159	1+2+3
	11a 5MHz	6Mbps	148/157/199	1+2+3
	11a 10MHz	6Mbps	149/157/165	1+2+3
	11a 20MHz	6Mbps	149/157/165	1+2+3

P to M / P to P (2TX)

Test Items	Mode	Data Rate	Channel	Chain
AC Power Line Conducted Emissions	CTX	Auto	-	-
Peak Output Power	MCS0/5MHz	6.5Mbps	148/157/199	1/3/1+3
Average Output Power	MCS0/10MHz	13.5Mbps	149/157/165	1/3/1+3
Power Spectral Density	MCS0/20MHz	6.5Mbps	149/157/165	1/3/1+3
	11a 5MHz	6Mbps	148/157/199	1/3/1+3
	11a 10MHz	6Mbps	149/157/165	1/3/1+3
	11a 20MHz	6Mbps	149/157/165	1/3/1+3
6dB Spectrum Bandwidth	MCS0/5MHz	6.5Mbps	148/157/199	1+3
	MCS0/10MHz	13.5Mbps	149/157/165	1+3
	MCS0/20MHz	6.5Mbps	149/157/165	1+3
	11a 5MHz	6Mbps	148/157/199	1+3
	11a 10MHz	6Mbps	149/157/165	1+3
	11a 20MHz	6Mbps	149/157/165	1+3
Radiated Emissions Below 1GHz	CTX	Auto	-	-
Radiated Emissions Above 1GHz	MCS0/5MHz	6.5Mbps	148/157/199	1+3
	MCS0/10MHz	13.5Mbps	149/157/165	1+3
	MCS0/20MHz	6.5Mbps	149/157/165	1+3
	11a 5MHz	6Mbps	148/157/199	1+3
	11a 10MHz	6Mbps	149/157/165	1+3
	11a 20MHz	6Mbps	149/157/165	1+3
Band Edge Emissions	MCS0/5MHz	6.5Mbps	148/157/199	1+3
	MCS0/10MHz	13.5Mbps	149/157/165	1+3
	MCS0/20MHz	6.5Mbps	149/157/165	1+3
	11a 5MHz	6Mbps	148/157/199	1+3
	11a 10MHz	6Mbps	149/157/165	1+3
	11a 20MHz	6Mbps	149/157/165	1+3

The following test modes were performed for all tests:

For Conducted Emission test:

Mode 1: Module + Ant. 1 (3TX)

Mode 2: Module + Ant. 5 (2TX)

All test results were recorded in the report.

For Radiated Emission test below 1GHz:

Mode 1: Module + Ant. 1 (3TX)

Mode 2: Module + Ant. 5 (2TX)

All test results were recorded in the report.

For Radiated Emission test above 1GHz:

P to M / P to P

Mode 1: Module + Ant. 1 (3TX)

Mode 2: Module + Ant. 2 (3TX)

Mode 3: Module + Ant. 3 (3TX)

Mode 4: Module + Ant. 4 (3TX)

Mode 5: Module + Ant. 5 (2TX)

All test results were recorded in the report.

<For MPE Test>:

The EUT could be applied with 5GHz WLAN function; therefore Maximum Permissible Exposure (Please refer to Appendix B) is added for transmit 5GHz WLAN function.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.
03CH01-CB	SAC	Hsin Chu	262045	IC 4086D
CO01-CB	Conduction	Hsin Chu	262045	IC 4086D
TH01-CB	OVEN Room	Hsin Chu	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Please refer section 6 for Test Site Address.

3.7. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	PP20L	E2KWM3945ABG
Mouse	iCooky	AMS0706W	DoC
Earphone	SHYARO CHI	MIC-04	N/A
Notebook	DELL	I200	E2K4965AGNM
Notebook	DELL	D520	E2KWM3945ABG
Power Supply	Gwinstek	GPC-60300	N/A

3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Mode 1 / P to M

Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	13.5	13	13

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.5	13.5	13.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795 MHz	5835 MHz
MCS0 40MHz	11	11	11

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	14	14	13.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.00	13.50	14.00

Test Mode 1 / P to P

Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17	17	17

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	16.5	16.5	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.50	17.50	17.50

Test Mode 2 / P to M

Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	13.5	13	13

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.5	13.5	13.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	11	11	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	14	14	13.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.00	13.50	14.00

Test Mode 2 / P to P

Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17	17	17

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	16.5	16.5	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.50	17.50	17.50

Test Mode 3 / P to M
Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17	17	17

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.5	17.5	17

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	14.5	14.5	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.50	17.50	17.50

Test Mode 3 / P to P
Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17	17	17

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	16.5	16.5	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.50	17.50	17.50

Test Mode 4 / P to M
Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	13.5	13	13

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.5	13.5	13.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	11	11	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	14	14	13.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	13.5	13.5	13

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	13.00	13.50	14.00

Test Mode 4 / P to P
Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17	17	17

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11n MCS0 40MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5755 MHz	5795MHz	
MCS0 40MHz	16.5	16.5	

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	16.5	16.5	16.5

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 10MHz	17.5	17.5	17.5

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	17.50	17.50	17.50

Test Mode 5 / P to M
Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	10.5	10.5	10.5

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785MHz	5825MHz
MCS0 10MHz	10.5	10.5	10.5

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	10.5	10.5	10.5

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	11	11	11

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785MHz	5825MHz
MCS0 10MHz	11	11	11

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	11	11	11

Test Mode 5 / P to P

Power Parameters of IEEE 802.11n MCS0 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	20	20	20

Power Parameters of IEEE 802.11n MCS0 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785MHz	5825MHz
MCS0 10MHz	20	20	20

Power Parameters of IEEE 802.11n MCS0 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	20	20	20

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5740 MHz	5785 MHz	5830 MHz
MCS0 5MHz	20	20	20

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785MHz	5825MHz
MCS0 10MHz	20	20	20

Power Parameters of IEEE 802.11a 20MHz

Test Software Version	Revision 0.9 BUILD #16 ART_11n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS0 20MHz	20	20	20

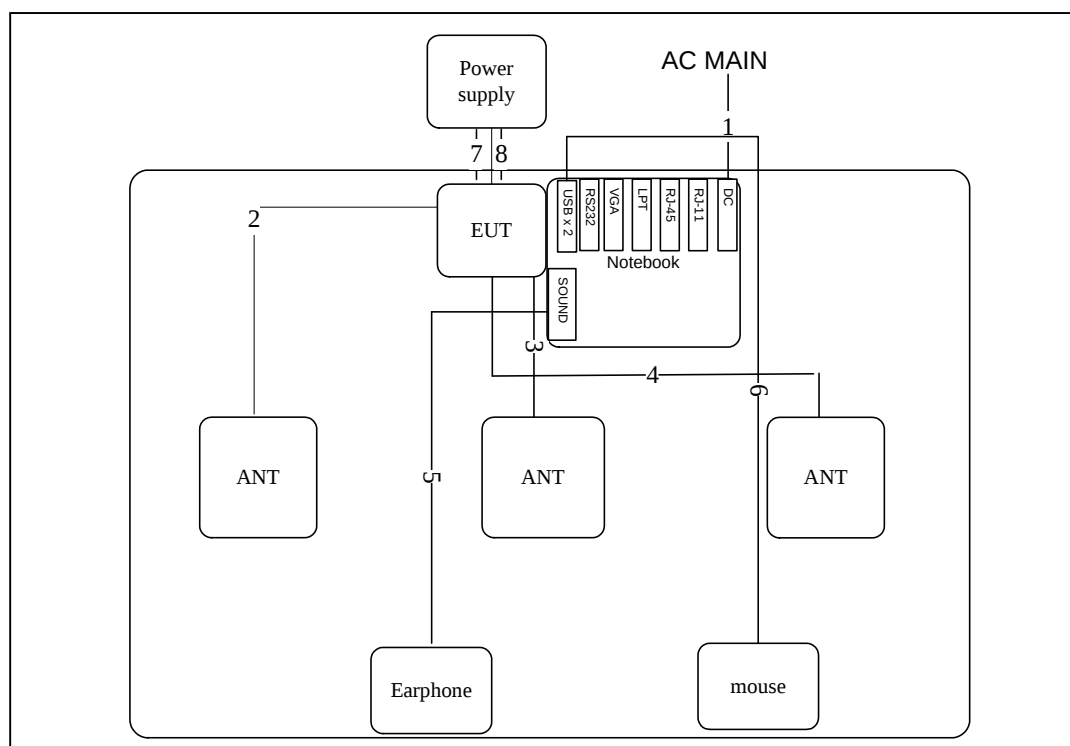
During the test, "Revision 0.9 BUILD #16 ART_11n" under WIN XP was executed the test program to control the EUT continuously transmit RF signal.

3.9. Test Configurations

3.9.1. Radiation Emissions Test Configuration

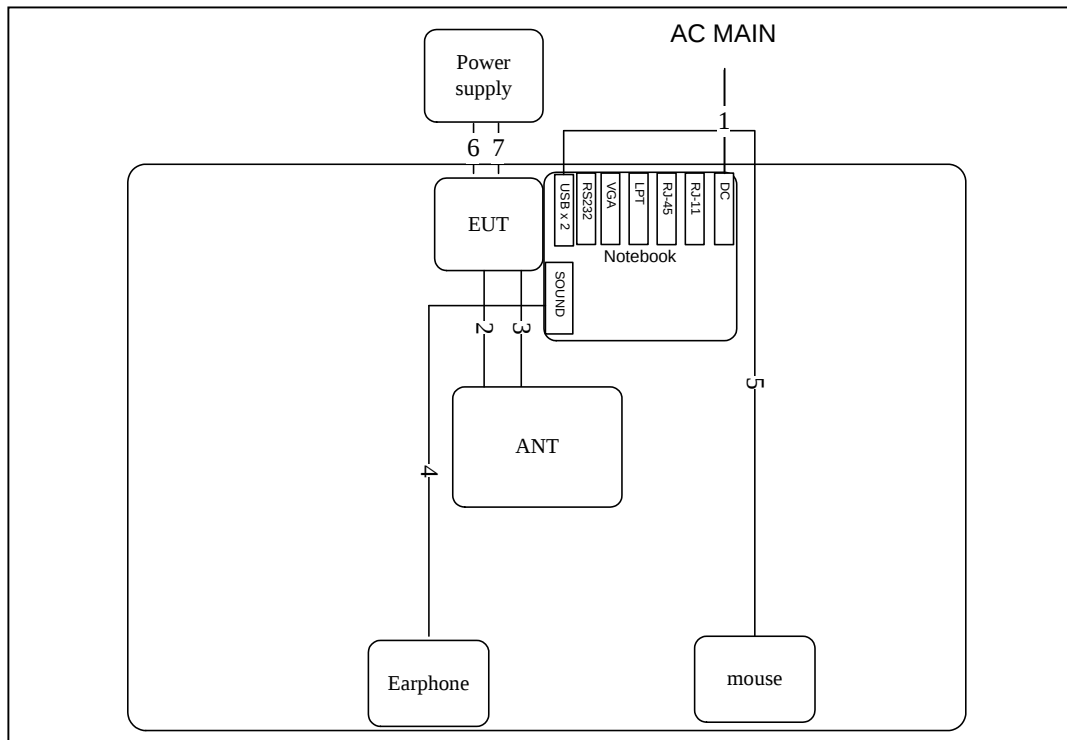
Test Configuration: 30MHz~1GHz

Test Mode : Mode 1



Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	ANT cable	Yes	1M
5	USB cable	No	1.8M
6	Earphone cable	No	1.1M
7	Power cable	Yes	1M
8	Power cable	No	1M

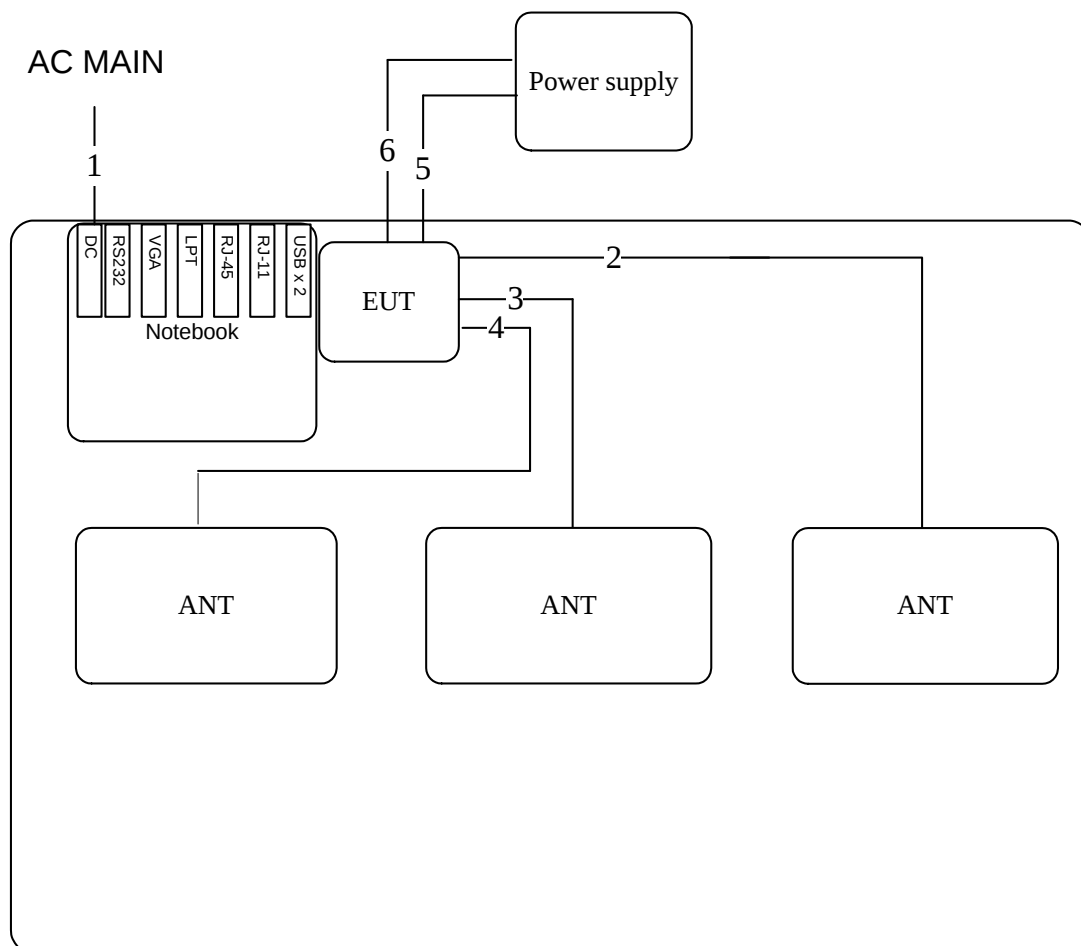
Test Mode : Mode 2



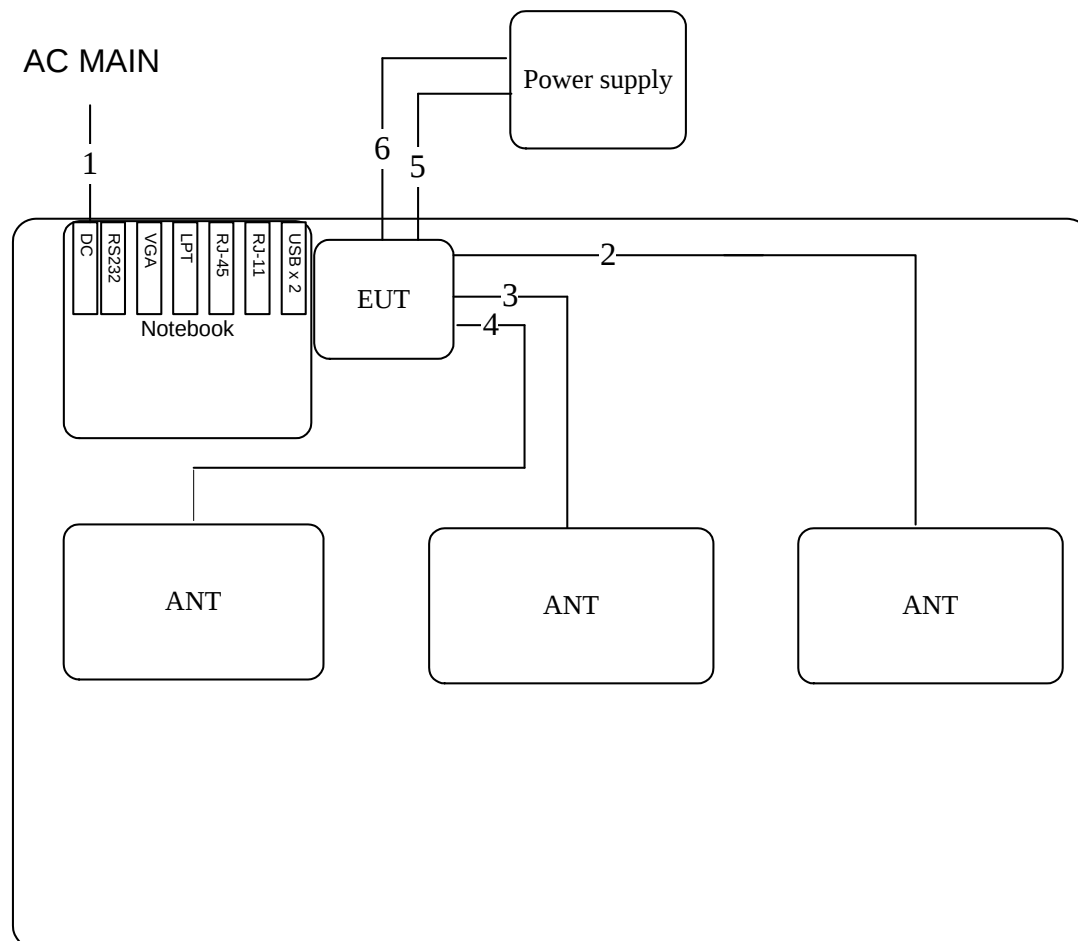
Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	USB cable	No	1.8M
5	Earphone cable	No	1.1M
6	Power cable	Yes	1M
7	Power cable	No	1M

Test Configuration: above 1GHz

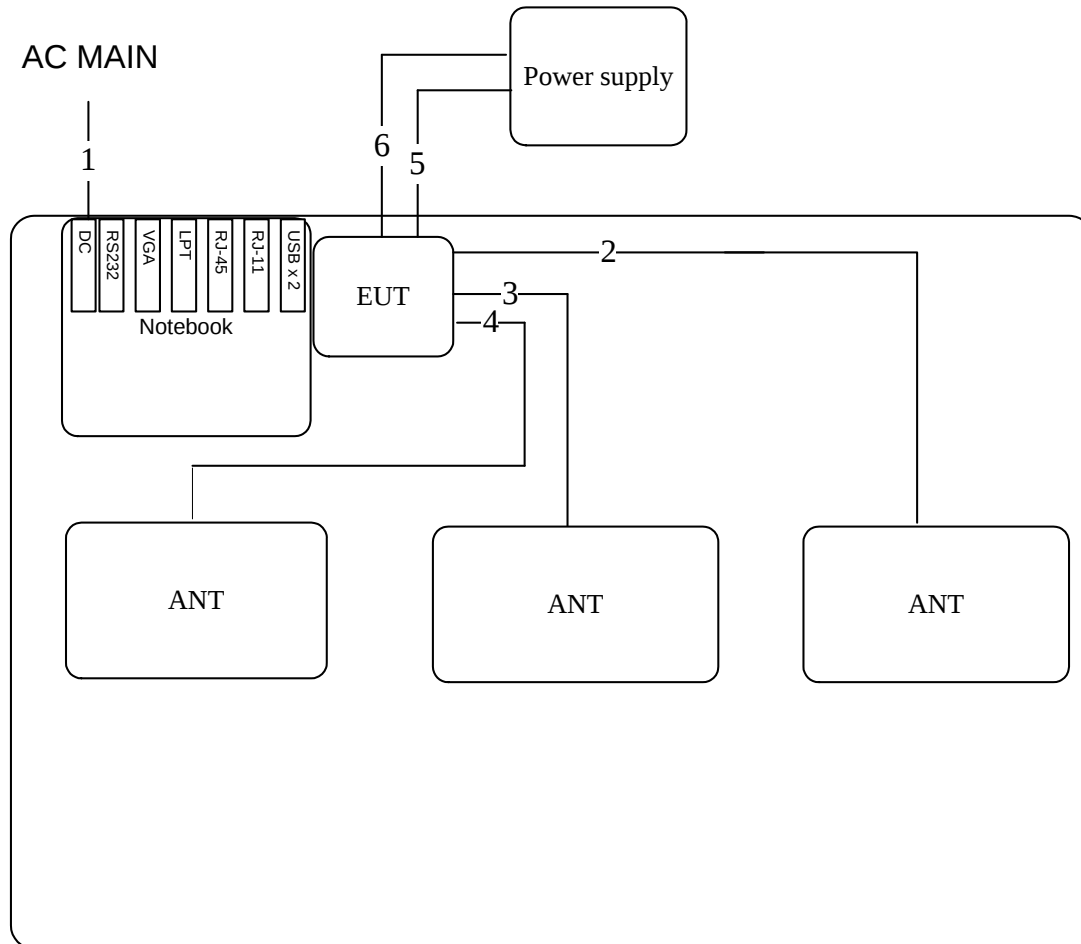
Test Mode : Mode 1 (P to M / P to P)



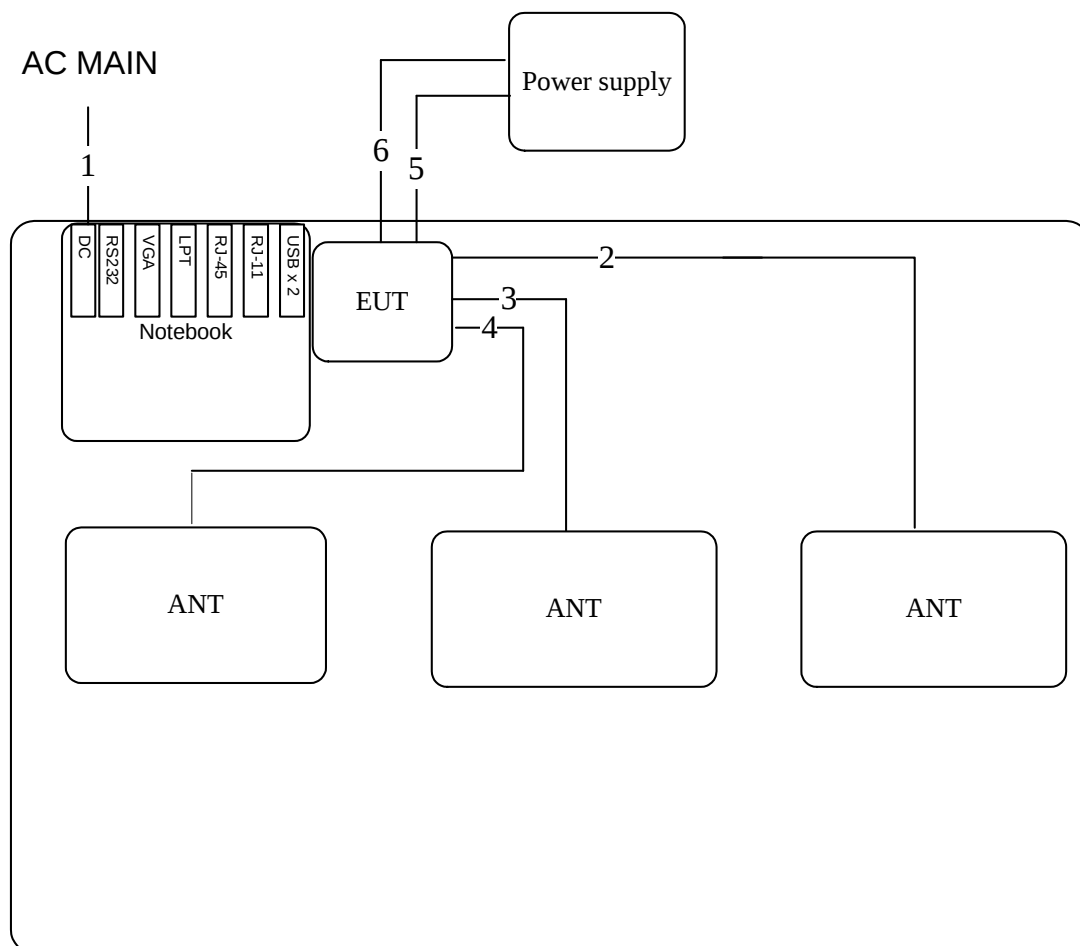
Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	ANT cable	Yes	1M
5	Power cable	No	1M
6	Power cable	No	1M

Test Mode : Mode 2 (P to M / P to P)


Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	ANT cable	Yes	1M
5	Power cable	No	1M
6	Power cable	No	1M

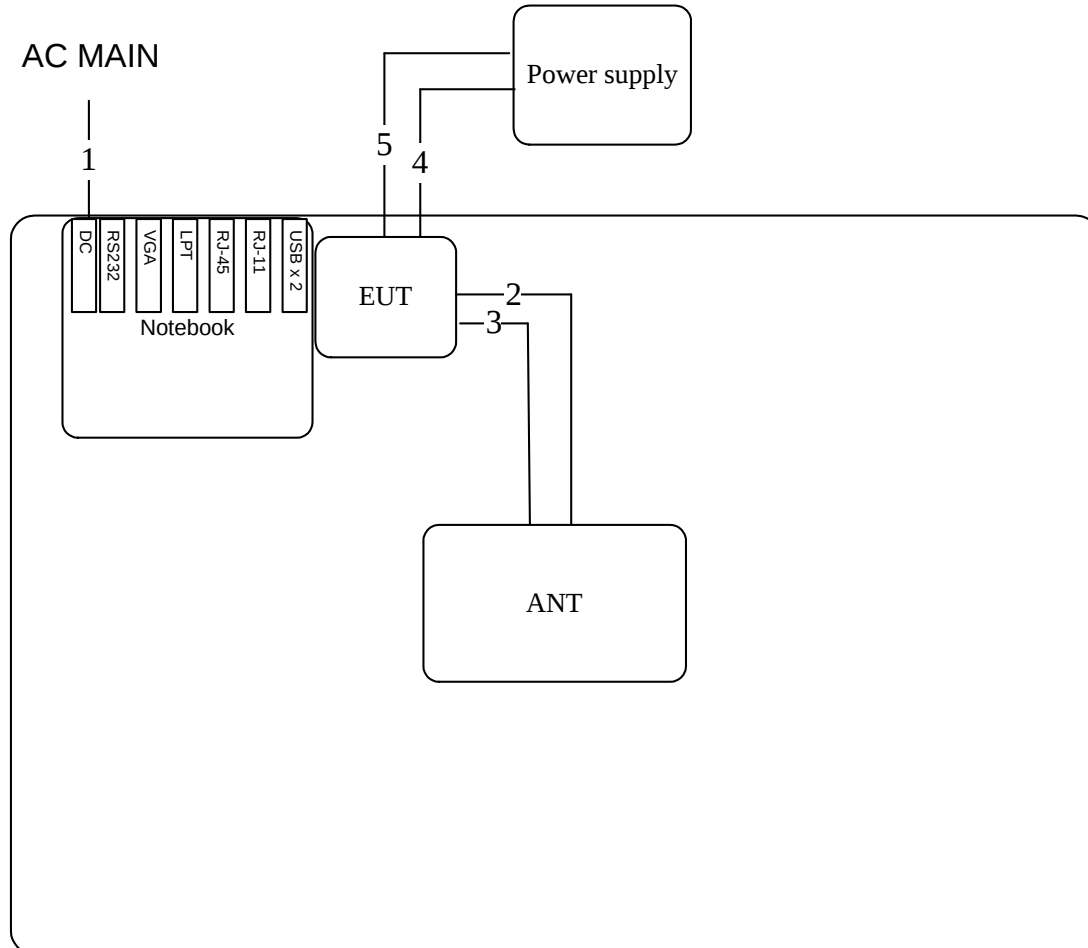
Test Mode : Mode 3 (P to M / P to P)


Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	ANT cable	Yes	1M
5	Power cable	No	1M
6	Power cable	No	1M

Test Mode : Mode 4 (P to M / P to P)


Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	ANT cable	Yes	1M
5	Power cable	No	1M
6	Power cable	No	1M

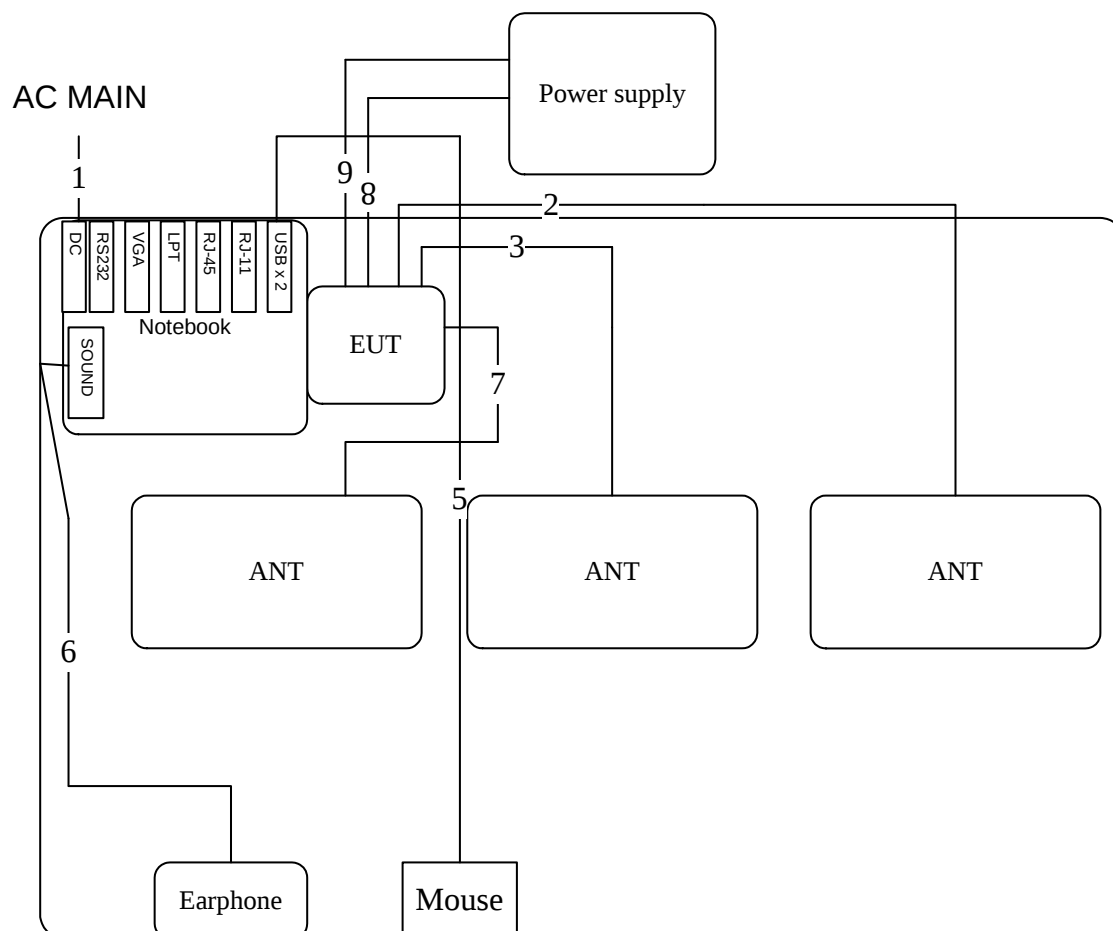
Test Mode : Mode 5 (P to M / P to P)



Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	Power cable	No	1M
5	Power cable	No	1M

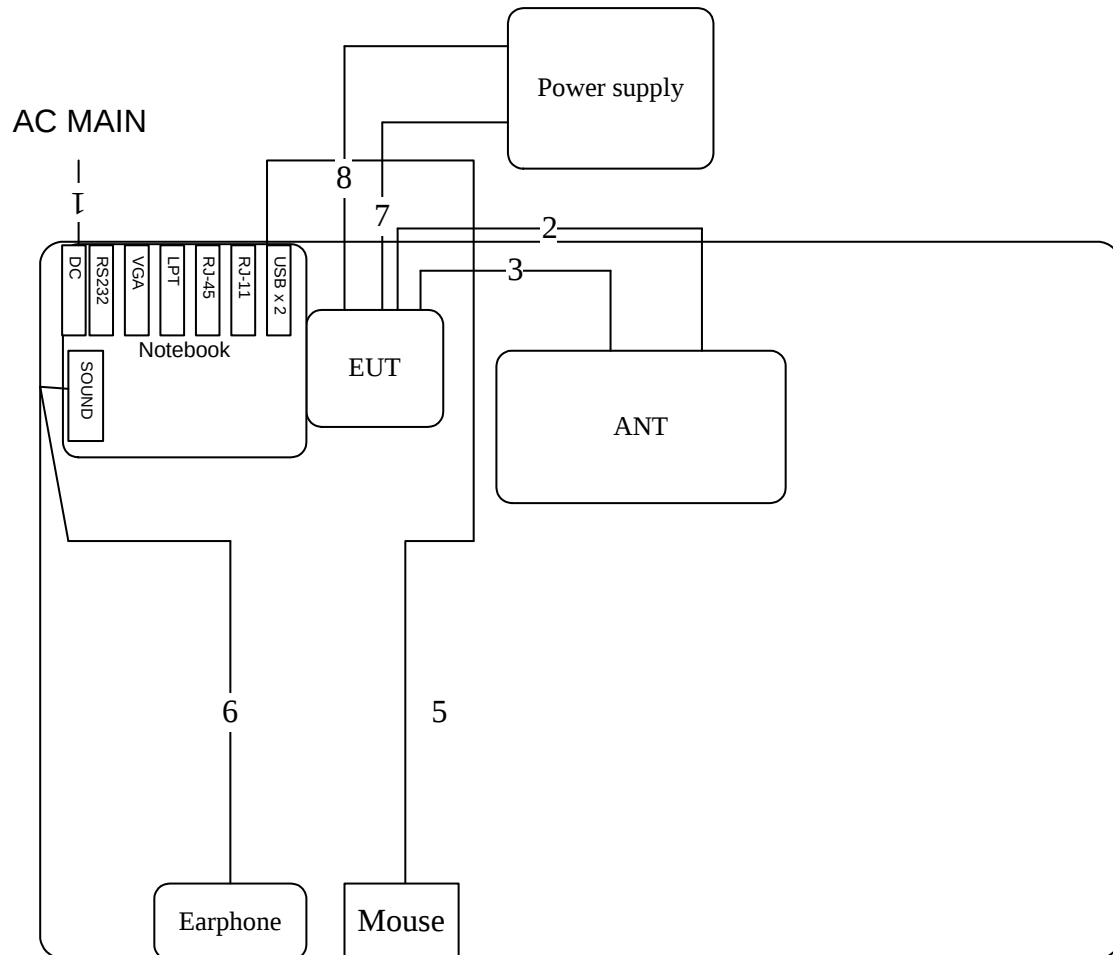
3.9.2. AC Power Line Conduction Emissions Test Configuration

Test Mode: Mode1



Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	RJ-45 cable	No	10M
5	USB cable	No	1.8M
6	Earphone cable	No	1.1M
7	ANT cable	Yes	1M
8	Power cable	No	1M
9	Power cable	No	1M

Test Mode: Mode 2



Item	Connection	Shield	Length
1	Power cable	No	2.6M
2	ANT cable	Yes	1M
3	ANT cable	Yes	1M
4	RJ-45 cable	No	10M
5	USB cable	No	1.8M
6	Earphone cable	No	1.1M
7	Power cable	Yes	1M
8	Power cable	No	1M

4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

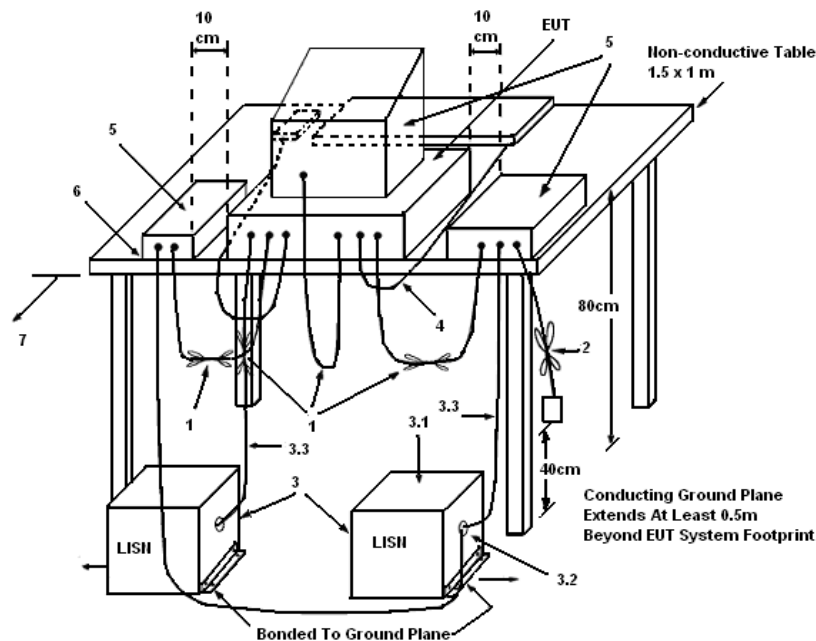
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 KHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



LEGEND:

- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
 - (3.1) All other equipment powered from additional LISN(s).
 - (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

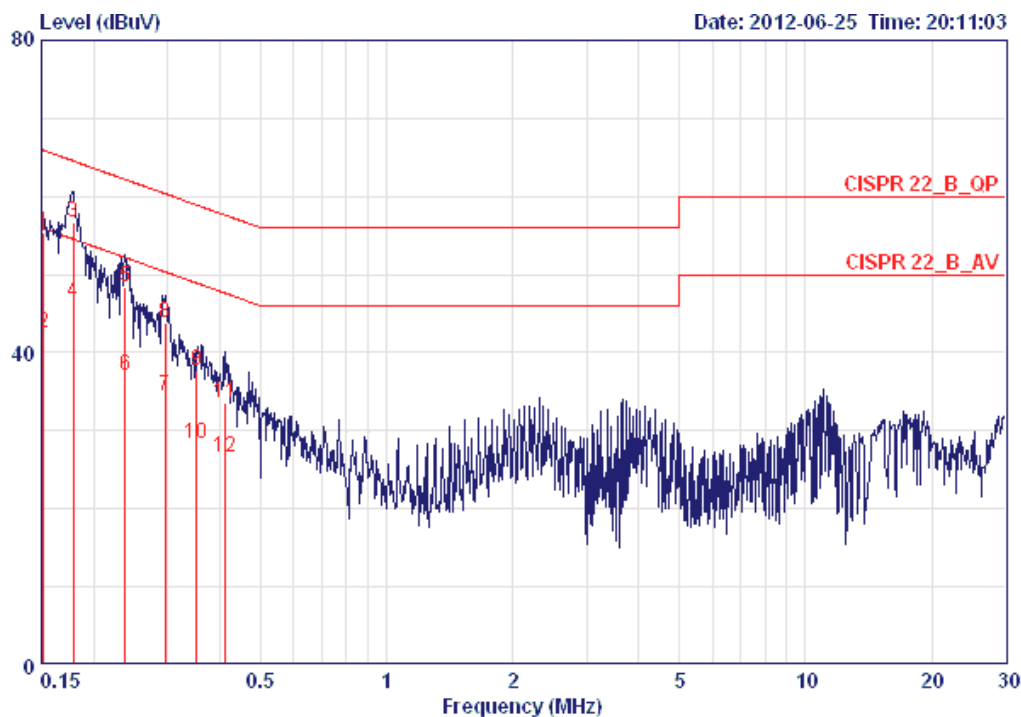
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

4.1.7. Results of AC Power Line Conducted Emissions Measurement

Temperature	26°C	Humidity	58%
Test Engineer	Kane Liu	Phase	Line
Configuration	CTX	Test Mode	Mode 1

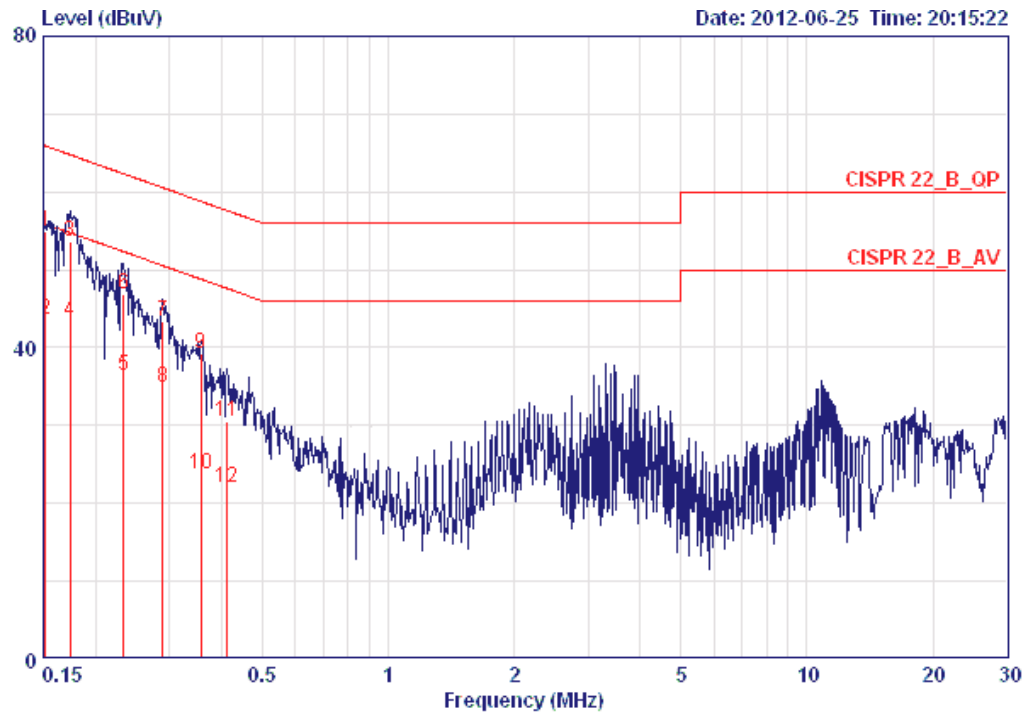


	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 @	0.15160	55.42	-10.49	65.91	55.16	0.06	0.20	QP
2	0.15160	42.55	-13.36	55.91	42.29	0.06	0.20	AVERAGE
3 @	0.17866	56.67	-7.87	64.55	56.42	0.05	0.20	QP
4 @	0.17866	46.35	-8.19	54.55	46.10	0.05	0.20	AVERAGE
5	0.23784	48.32	-13.85	62.17	48.08	0.04	0.20	QP
6	0.23784	37.15	-15.02	52.17	36.91	0.04	0.20	AVERAGE
7	0.29555	34.51	-15.86	50.37	34.28	0.03	0.20	AVERAGE
8	0.29555	43.83	-16.54	60.37	43.60	0.03	0.20	QP
9	0.35201	37.76	-21.16	58.91	37.54	0.02	0.20	QP
10	0.35201	28.32	-20.60	48.91	28.10	0.02	0.20	AVERAGE
11	0.41048	33.60	-24.04	57.64	33.39	0.01	0.20	QP
12	0.41048	26.54	-21.10	47.64	26.33	0.01	0.20	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss

Temperature	26°C	Humidity	60%
Test Engineer	Kane Liu	Phase	Neutral
Configuration	CTX	Test Mode	Mode 1

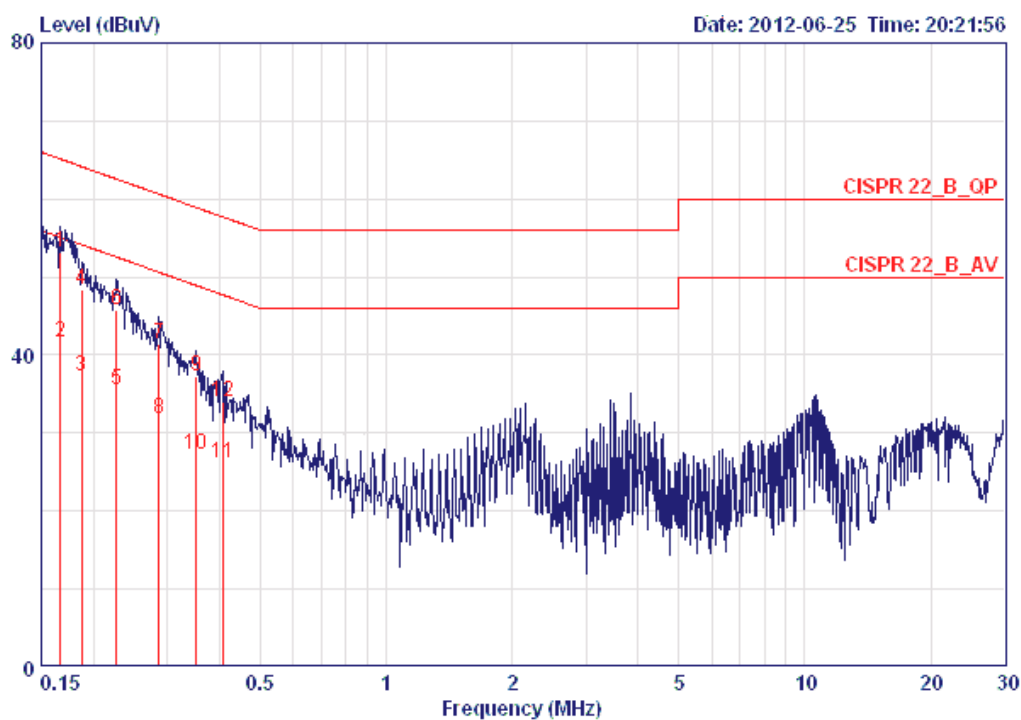


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15160	54.98	-10.93	65.91	54.72	0.06	0.20	QP
2	0.15160	43.57	-12.34	55.91	43.31	0.06	0.20	AVERAGE
3	0.17399	53.52	-11.24	64.77	53.27	0.05	0.20	QP
4	0.17399	43.30	-11.46	54.77	43.05	0.05	0.20	AVERAGE
5	0.23285	36.37	-15.98	52.35	36.12	0.05	0.20	AVERAGE
6	0.23285	46.85	-15.50	62.35	46.60	0.05	0.20	QP
7	0.28935	43.35	-17.19	60.54	43.10	0.05	0.20	QP
8	0.28935	34.77	-15.77	50.54	34.52	0.05	0.20	AVERAGE
9	0.35765	39.32	-19.46	58.78	39.07	0.05	0.20	QP
10	0.35765	23.79	-24.99	48.78	23.54	0.05	0.20	AVERAGE
11	0.41266	30.46	-27.13	57.59	30.21	0.05	0.20	QP
12	0.41266	21.96	-25.63	47.59	21.71	0.05	0.20	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss

Temperature	26°C	Humidity	58%
Test Engineer	Kane Liu	Phase	Line
Configuration	CTX	Test Mode	Mode 2

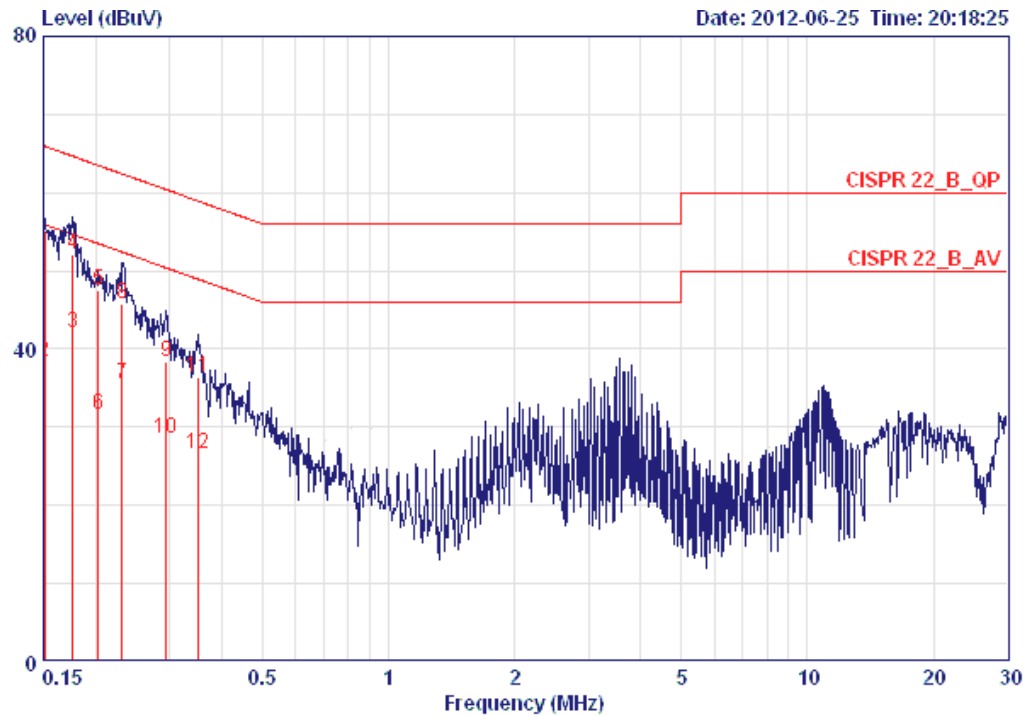


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16677	53.22	-11.90	65.12	52.96	0.06	0.20	QP
2	0.16677	41.71	-13.41	55.12	41.45	0.06	0.20	AVERAGE
3	0.18739	37.24	-16.91	54.15	36.99	0.05	0.20	AVERAGE
4	0.18739	48.34	-15.81	64.15	48.09	0.05	0.20	QP
5	0.22676	35.60	-16.96	52.57	35.36	0.04	0.20	AVERAGE
6	0.22676	45.86	-16.70	62.57	45.62	0.04	0.20	QP
7	0.28630	41.39	-19.24	60.63	41.16	0.03	0.20	QP
8	0.28630	31.76	-18.87	50.63	31.53	0.03	0.20	AVERAGE
9	0.35201	37.32	-21.60	58.91	37.10	0.02	0.20	QP
10	0.35201	27.18	-21.74	48.91	26.96	0.02	0.20	AVERAGE
11	0.40615	26.14	-21.59	47.73	25.93	0.01	0.20	AVERAGE
12	0.40615	34.05	-23.68	57.73	33.84	0.01	0.20	QP

Note:

Level = Read Level + LISN Factor + Cable Loss

Temperature	26°C	Humidity	60%
Test Engineer	Kane Liu	Phase	Neutral
Configuration	CTX	Test Mode	Mode 2



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15080	55.22	-10.74	65.96	54.96	0.06	0.20	QP
2	0.15080	38.35	-17.61	55.96	38.09	0.06	0.20	AVERAGE
3	0.17584	42.15	-12.53	54.68	41.90	0.05	0.20	AVERAGE
4	0.17584	52.06	-12.62	64.68	51.81	0.05	0.20	QP
5	0.20289	47.43	-16.06	63.49	47.18	0.05	0.20	QP
6	0.20289	31.50	-21.99	53.49	31.25	0.05	0.20	AVERAGE
7	0.23162	35.57	-16.82	52.39	35.32	0.05	0.20	AVERAGE
8	0.23162	45.80	-16.59	62.39	45.55	0.05	0.20	QP
9	0.29398	38.39	-22.02	60.41	38.14	0.05	0.20	QP
10	0.29398	28.65	-21.76	50.41	28.40	0.05	0.20	AVERAGE
11	0.35015	36.36	-22.60	58.96	36.11	0.05	0.20	QP
12	0.35015	26.57	-22.39	48.96	26.32	0.05	0.20	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss

4.2. Peak Output Power Measurement

4.2.1. Limit

Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

4.2.2. Measuring Instruments and Setting

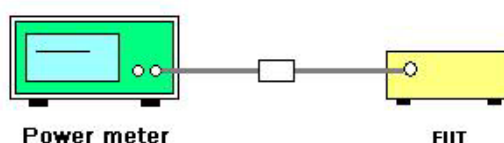
Please refer to section 5 of equipments list in this report. The following table is the setting of the peak power meter.

Power Meter Parameter	Setting
Bandwidth	50MHz bandwidth is greater than the EUT emission bandwidth
Detector	Peak

4.2.3. Test Procedures

Spectrum Parameter	Setting
RF Output Power Method	☒ ANSI C63.10 clause 6.10.2.1 (a) power meter method
RF Output Power Method	☐ ANSI C63.10 clause 6.10.2.1 (b) channel integration method
RF Output Power Method	☐ ANSI C63.10 clause 6.10.3.1 Method 1 - spectral trace averaging
RF Output Power Method	☐ ANSI C63.10 clause 6.10.3.2 Method 2 - zero-span mode with trace averaging

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of Peak Output Power

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test datd	Jul. 24, 2012	Test Mode	Mode 1 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.00	22.68	23.70	27.92	28.00	Complies
157	5785 MHz	22.70	23.00	23.82	27.97	28.00	Complies
166	5830 MHz	22.90	23.19	23.30	27.90	28.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.59	23.12	23.84	27.98	28.00	Complies
157	5785 MHz	22.60	23.08	23.89	27.99	28.00	Complies
165	5825 MHz	22.32	22.90	23.00	27.52	28.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.31	21.82	23.94	27.56	28.00	Complies
157	5785 MHz	22.12	22.82	23.69	27.70	28.00	Complies
165	5825 MHz	22.52	22.75	23.35	27.66	28.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	22.02	22.46	23.88	27.63	28.00	Complies
159	5795MHz	22.32	22.62	23.96	27.80	28.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.52	22.64	23.36	27.96	28.00	Complies
157	5785 MHz	22.81	22.75	23.79	27.91	28.00	Complies
166	5830 MHz	22.61	22.39	23.81	27.75	28.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.32	22.36	23.59	27.89	28.00	Complies
157	5785 MHz	23.25	22.65	23.66	27.98	28.00	Complies
165	5825 MHz	22.71	22.92	23.42	27.80	28.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.53	22.09	23.19	27.75	28.00	Complies
157	5785 MHz	22.39	22.89	23.85	27.86	28.00	Complies
165	5825 MHz	22.51	22.62	24.22	27.96	28.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 1 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.01	24.53	25.42	29.77	30.00	Complies
157	5785 MHz	25.03	24.82	25.29	29.82	30.00	Complies
166	5830 MHz	25.19	24.67	25.45	29.89	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.03	25.03	25.42	29.94	30.00	Complies
157	5785 MHz	24.95	24.78	25.46	29.84	30.00	Complies
165	5825 MHz	25.03	24.84	25.44	29.88	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.06	24.70	25.40	29.83	30.00	Complies
157	5785 MHz	24.95	24.82	25.48	29.86	30.00	Complies
165	5825 MHz	25.12	25.00	25.50	29.98	30.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	25.00	24.90	25.60	29.95	30.00	Complies
159	5795MHz	25.10	24.80	25.33	29.85	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.06	24.67	25.12	29.73	30.00	Complies
157	5785 MHz	24.95	24.88	25.41	29.86	30.00	Complies
166	5830 MHz	25.17	24.68	25.42	29.87	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.18	25.02	25.42	29.98	30.00	Complies
157	5785 MHz	25.24	24.71	25.52	29.94	30.00	Complies
165	5825 MHz	25.20	24.85	25.54	29.98	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.10	24.82	25.43	29.90	30.00	Complies
157	5785 MHz	24.96	24.66	25.54	29.84	30.00	Complies
165	5825 MHz	25.08	24.91	25.63	29.99	30.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 2 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.00	22.68	23.70	27.92	28.00	Complies
157	5785 MHz	22.70	23.00	23.82	27.97	28.00	Complies
166	5830 MHz	22.90	23.19	23.30	27.90	28.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.59	23.12	23.84	27.98	28.00	Complies
157	5785 MHz	22.60	23.08	23.89	27.99	28.00	Complies
165	5825 MHz	22.32	22.90	23.00	27.52	28.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.31	21.82	23.94	27.56	28.00	Complies
157	5785 MHz	22.12	22.82	23.69	27.70	28.00	Complies
165	5825 MHz	22.52	22.75	23.35	27.66	28.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	22.02	22.46	23.88	27.63	28.00	Complies
159	5795MHz	22.32	22.62	23.96	27.80	28.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.52	22.64	23.36	27.96	28.00	Complies
157	5785 MHz	22.81	22.75	23.79	27.91	28.00	Complies
166	5830 MHz	22.61	22.39	23.81	27.75	28.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.32	22.36	23.59	27.89	28.00	Complies
157	5785 MHz	23.25	22.65	23.66	27.98	28.00	Complies
165	5825 MHz	22.71	22.92	23.42	27.80	28.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.53	22.09	23.19	27.75	28.00	Complies
157	5785 MHz	22.39	22.89	23.85	27.86	28.00	Complies
165	5825 MHz	22.51	22.62	24.22	27.96	28.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 2 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.01	24.53	25.42	29.77	30.00	Complies
157	5785 MHz	25.03	24.82	25.29	29.82	30.00	Complies
166	5830 MHz	25.19	24.67	25.45	29.89	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.03	25.03	25.42	29.94	30.00	Complies
157	5785 MHz	24.95	24.78	25.46	29.84	30.00	Complies
165	5825 MHz	25.03	24.84	25.44	29.88	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.06	24.70	25.40	29.83	30.00	Complies
157	5785 MHz	24.95	24.82	25.48	29.86	30.00	Complies
165	5825 MHz	25.12	25.00	25.50	29.98	30.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	25.00	24.90	25.60	29.95	30.00	Complies
159	5795MHz	25.10	24.80	25.33	29.85	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.06	24.67	25.12	29.73	30.00	Complies
157	5785 MHz	24.95	24.88	25.41	29.86	30.00	Complies
166	5830 MHz	25.17	24.68	25.42	29.87	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.18	25.02	25.42	29.98	30.00	Complies
157	5785 MHz	25.24	24.71	25.52	29.94	30.00	Complies
165	5825 MHz	25.20	24.85	25.54	29.98	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.10	24.82	25.43	29.90	30.00	Complies
157	5785 MHz	24.96	24.66	25.54	29.84	30.00	Complies
165	5825 MHz	25.08	24.91	25.63	29.99	30.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 3 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.01	24.53	25.42	29.77	30.00	Complies
157	5785 MHz	25.03	24.82	25.29	29.82	30.00	Complies
166	5830 MHz	25.19	24.67	25.45	29.89	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.03	25.03	25.42	29.94	30.00	Complies
157	5785 MHz	24.95	24.78	25.46	29.84	30.00	Complies
165	5825 MHz	25.03	24.84	25.44	29.88	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	24.66	24.73	25.43	29.73	30.00	Complies
157	5785 MHz	24.94	25.00	25.44	29.90	30.00	Complies
165	5825 MHz	25.09	24.52	25.42	29.80	30.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	24.12	24.12	25.08	29.24	30.00	Complies
159	5795MHz	24.30	23.89	25.10	29.23	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.06	24.67	25.12	29.73	30.00	Complies
157	5785 MHz	24.95	24.88	25.41	29.86	30.00	Complies
166	5830 MHz	25.17	24.68	25.42	29.87	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.18	25.02	25.42	29.98	30.00	Complies
157	5785 MHz	25.24	24.71	25.52	29.94	30.00	Complies
165	5825 MHz	25.20	24.85	25.54	29.98	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.10	24.82	25.43	29.90	30.00	Complies
157	5785 MHz	24.96	24.66	25.54	29.84	30.00	Complies
165	5825 MHz	25.08	24.91	25.63	29.99	30.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 3 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.01	24.53	25.42	29.77	30.00	Complies
157	5785 MHz	25.03	24.82	25.29	29.82	30.00	Complies
166	5830 MHz	25.19	24.67	25.45	29.89	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.03	25.03	25.42	29.94	30.00	Complies
157	5785 MHz	24.95	24.78	25.46	29.84	30.00	Complies
165	5825 MHz	25.03	24.84	25.44	29.88	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.06	24.70	25.40	29.83	30.00	Complies
157	5785 MHz	24.95	24.82	25.48	29.86	30.00	Complies
165	5825 MHz	25.12	25.00	25.50	29.98	30.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	25.00	24.90	25.60	29.95	30.00	Complies
159	5795MHz	25.10	24.80	25.33	29.85	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.06	24.67	25.12	29.73	30.00	Complies
157	5785 MHz	24.95	24.88	25.41	29.86	30.00	Complies
166	5830 MHz	25.17	24.68	25.42	29.87	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.18	25.02	25.42	29.98	30.00	Complies
157	5785 MHz	25.24	24.71	25.52	29.94	30.00	Complies
165	5825 MHz	25.20	24.85	25.54	29.98	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.10	24.82	25.43	29.90	30.00	Complies
157	5785 MHz	24.96	24.66	25.54	29.84	30.00	Complies
165	5825 MHz	25.08	24.91	25.63	29.99	30.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 4 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.00	22.68	23.70	27.92	28.00	Complies
157	5785 MHz	22.70	23.00	23.82	27.97	28.00	Complies
166	5830 MHz	22.90	23.19	23.30	27.90	28.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.59	23.12	23.84	27.98	28.00	Complies
157	5785 MHz	22.60	23.08	23.89	27.99	28.00	Complies
165	5825 MHz	22.32	22.90	23.00	27.52	28.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	22.31	21.82	23.94	27.56	28.00	Complies
157	5785 MHz	22.12	22.82	23.69	27.70	28.00	Complies
165	5825 MHz	22.52	22.75	23.35	27.66	28.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	22.02	22.46	23.88	27.63	28.00	Complies
159	5795MHz	22.32	22.62	23.96	27.80	28.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	23.52	22.64	23.36	27.96	28.00	Complies
157	5785 MHz	22.81	22.75	23.79	27.91	28.00	Complies
166	5830 MHz	22.61	22.39	23.81	27.75	28.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.32	22.36	23.59	27.89	28.00	Complies
157	5785 MHz	23.25	22.65	23.66	27.98	28.00	Complies
165	5825 MHz	22.71	22.92	23.42	27.80	28.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	23.53	22.09	23.19	27.75	28.00	Complies
157	5785 MHz	22.39	22.89	23.85	27.86	28.00	Complies
165	5825 MHz	22.51	22.62	24.22	27.96	28.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 4 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.01	24.53	25.42	29.77	30.00	Complies
157	5785 MHz	25.03	24.82	25.29	29.82	30.00	Complies
166	5830 MHz	25.19	24.67	25.45	29.89	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.03	25.03	25.42	29.94	30.00	Complies
157	5785 MHz	24.95	24.78	25.46	29.84	30.00	Complies
165	5825 MHz	25.03	24.84	25.44	29.88	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.06	24.70	25.40	29.83	30.00	Complies
157	5785 MHz	24.95	24.82	25.48	29.86	30.00	Complies
165	5825 MHz	25.12	25.00	25.50	29.98	30.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
151	5755 MHz	25.00	24.90	25.60	29.95	30.00	Complies
159	5795MHz	25.10	24.80	25.33	29.85	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
148	5740 MHz	25.06	24.67	25.12	29.73	30.00	Complies
157	5785 MHz	24.95	24.88	25.41	29.86	30.00	Complies
166	5830 MHz	25.17	24.68	25.42	29.87	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.18	25.02	25.42	29.98	30.00	Complies
157	5785 MHz	25.24	24.71	25.52	29.94	30.00	Complies
165	5825 MHz	25.20	24.85	25.54	29.98	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Conducted Power (dBm)			Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 2	Chain 3			
149	5745 MHz	25.10	24.82	25.43	29.90	30.00	Complies
157	5785 MHz	24.96	24.66	25.54	29.84	30.00	Complies
165	5825 MHz	25.08	24.91	25.63	29.99	30.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 5 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
148	5740 MHz	20.60	21.22	23.93	24.00	Complies
157	5785 MHz	20.48	21.24	23.89	24.00	Complies
166	5830 MHz	20.62	21.09	23.87	24.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	20.48	21.07	23.80	24.00	Complies
157	5785 MHz	20.47	21.14	23.83	24.00	Complies
165	5825 MHz	20.45	21.22	23.86	24.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	20.36	20.96	23.68	24.00	Complies
157	5785 MHz	20.28	21.19	23.77	24.00	Complies
165	5825 MHz	20.33	21.04	23.71	24.00	Complies

Configuration IEEE 802.11a 5MHz Chain. 1 + Chain. 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
148	5740 MHz	21.11	20.62	23.88	24.00	Complies
157	5785 MHz	20.84	20.72	23.79	24.00	Complies
166	5830 MHz	20.71	21.02	23.88	24.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	20.98	20.31	23.67	24.00	Complies
157	5785 MHz	21.00	20.60	23.81	24.00	Complies
165	5825 MHz	20.73	20.90	23.83	24.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	20.91	20.28	23.62	24.00	Complies
157	5785 MHz	20.80	20.66	23.74	24.00	Complies
165	5825 MHz	20.62	20.71	23.68	24.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Date	Jul. 24, 2012	Test Mode	Mode 5 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
148	5740 MHz	26.19	26.45	29.33	30.00	Complies
157	5785 MHz	26.20	26.63	29.43	30.00	Complies
166	5830 MHz	26.40	26.98	29.71	30.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	26.03	26.28	29.17	30.00	Complies
157	5785 MHz	26.18	26.51	29.36	30.00	Complies
165	5825 MHz	26.31	26.81	29.58	30.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	26.02	26.30	29.17	30.00	Complies
157	5785 MHz	26.08	26.42	29.26	30.00	Complies
165	5825 MHz	26.28	26.75	29.53	30.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
148	5740 MHz	26.10	26.38	29.25	30.00	Complies
157	5785 MHz	26.27	26.67	29.48	30.00	Complies
166	5830 MHz	26.44	26.93	29.70	30.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	26.09	26.33	29.22	30.00	Complies
157	5785 MHz	26.22	26.59	29.42	30.00	Complies
165	5825 MHz	26.36	26.92	29.66	30.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	Conducted Power (dBm)		Total Conducted Power (dBm)	Max. Limit (dBm)	Result
		Chain 1	Chain 3			
149	5745 MHz	25.70	26.21	28.97	30.00	Complies
157	5785 MHz	26.08	26.52	29.32	30.00	Complies
165	5825 MHz	26.23	26.79	29.53	30.00	Complies

4.3. Average Output Power Measurement

4.3.1. Measuring Instruments and Setting

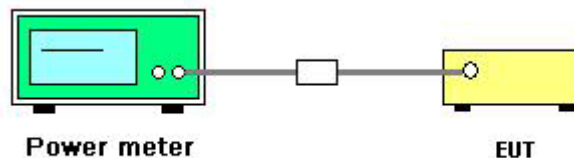
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

Power Meter Parameter	Setting
Bandwidth	50MHz bandwidth is greater than the EUT emission bandwidth
Detector	Average

4.3.2. Test Procedures

Spectrum Parameter	Setting
RF Output Power Method	☒ ANSI C63.10 clause 6.10.2.1 (a) power meter method
RF Output Power Method	☐ ANSI C63.10 clause 6.10.2.1 (b) channel integration method
RF Output Power Method	☐ ANSI C63.10 clause 6.10.3.1 Method 1 - spectral trace averaging
RF Output Power Method	☐ ANSI C63.10 clause 6.10.3.2 Method 2 - zero-span mode with trace averaging

4.3.3. Test Setup Layout



4.3.4. Test Deviation

There is no deviation with the original standard.

4.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

Note: Average output power is only for Maximum Permissible Exposure use.

4.3.6. Test Result of Average Output Power

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test datd	Jul. 24, 2012	Test Mode	Mode 1 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	13.82	13.09	13.74	18.33
157	5785 MHz	13.46	13.10	13.57	18.15
166	5830 MHz	13.56	12.88	13.40	18.06

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.96	13.72	14.06	18.69
157	5785 MHz	13.87	13.62	14.01	18.61
165	5825 MHz	13.43	13.26	13.37	18.13

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.66	12.56	13.95	18.20
157	5785 MHz	13.40	13.14	13.74	18.21
165	5825 MHz	13.75	13.01	13.59	18.23

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	12.02	11.78	12.47	16.87
159	5795MHz	12.06	11.44	12.63	16.84

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	15.41	14.22	14.72	19.58
157	5785 MHz	14.09	14.11	15.01	19.20
166	5830 MHz	13.75	13.54	14.91	18.88

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	14.44	13.57	14.28	18.88
157	5785 MHz	13.75	13.40	13.75	18.41
165	5825 MHz	13.33	13.42	14.29	18.47

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.72	13.01	13.89	18.33
157	5785 MHz	13.42	13.56	14.15	18.49
165	5825 MHz	13.65	13.61	14.36	18.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 1 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.62	16.66	18.18	22.30
157	5785 MHz	17.56	17.21	17.62	22.24
166	5830 MHz	17.46	17.11	17.44	22.11

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.42	18.07	19.00	23.28
157	5785 MHz	17.72	17.30	18.10	22.49
165	5825 MHz	17.59	17.63	17.65	22.39

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.20	17.49	18.82	22.98
157	5785 MHz	17.86	17.84	18.34	22.79
165	5825 MHz	18.05	18.14	18.12	22.87

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	17.07	16.88	17.57	21.95
159	5795MHz	17.15	16.76	17.19	21.81

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.72	16.87	17.85	22.27
157	5785 MHz	17.44	17.20	17.80	22.26
166	5830 MHz	17.63	17.24	17.47	22.22

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.92	18.47	19.36	23.70
157	5785 MHz	18.10	17.50	18.51	22.83
165	5825 MHz	17.97	17.95	18.31	22.85

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.18	17.70	18.64	22.96
157	5785 MHz	17.75	17.34	18.32	22.59
165	5825 MHz	17.85	17.68	18.12	22.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 2 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	13.82	13.09	13.74	18.33
157	5785 MHz	13.46	13.10	13.57	18.15
166	5830 MHz	13.56	12.88	13.40	18.06

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.96	13.72	14.06	18.69
157	5785 MHz	13.87	13.62	14.01	18.61
165	5825 MHz	13.43	13.26	13.37	18.13

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.66	12.56	13.95	18.20
157	5785 MHz	13.40	13.14	13.74	18.21
165	5825 MHz	13.75	13.01	13.59	18.23

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	12.02	11.78	12.47	16.87
159	5795MHz	12.06	11.44	12.63	16.84

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	15.41	14.22	14.72	19.58
157	5785 MHz	14.09	14.11	15.01	19.20
166	5830 MHz	13.75	13.54	14.91	18.88

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	14.44	13.57	14.28	18.88
157	5785 MHz	13.75	13.40	13.75	18.41
165	5825 MHz	13.33	13.42	14.29	18.47

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.72	13.01	13.89	18.33
157	5785 MHz	13.42	13.56	14.15	18.49
165	5825 MHz	13.65	13.61	14.36	18.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 2 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.62	16.66	18.18	22.30
157	5785 MHz	17.56	17.21	17.62	22.24
166	5830 MHz	17.46	17.11	17.44	22.11

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.42	18.07	19.00	23.28
157	5785 MHz	17.72	17.30	18.10	22.49
165	5825 MHz	17.59	17.63	17.65	22.39

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.20	17.49	18.82	22.98
157	5785 MHz	17.86	17.84	18.34	22.79
165	5825 MHz	18.05	18.14	18.12	22.87

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	17.07	16.88	17.57	21.95
159	5795MHz	17.15	16.76	17.19	21.81

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.72	16.87	17.85	22.27
157	5785 MHz	17.44	17.20	17.80	22.26
166	5830 MHz	17.63	17.24	17.47	22.22

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.92	18.47	19.36	23.70
157	5785 MHz	18.10	17.50	18.51	22.83
165	5825 MHz	17.97	17.95	18.31	22.85

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.18	17.70	18.64	22.96
157	5785 MHz	17.75	17.34	18.32	22.59
165	5825 MHz	17.85	17.68	18.12	22.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 3 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.62	16.66	18.18	22.30
157	5785 MHz	17.56	17.21	17.62	22.24
166	5830 MHz	17.46	17.11	17.44	22.11

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.42	18.07	19.00	23.28
157	5785 MHz	17.72	17.30	18.10	22.49
165	5825 MHz	17.59	17.63	17.65	22.39

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	17.97	17.48	18.90	22.93
157	5785 MHz	17.79	17.95	18.22	22.76
165	5825 MHz	17.58	16.88	17.73	22.18

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	15.55	15.14	16.25	20.44
159	5795MHz	15.42	15.14	15.83	20.24

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.72	16.87	17.85	22.27
157	5785 MHz	17.44	17.20	17.80	22.26
166	5830 MHz	17.63	17.24	17.47	22.22

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.92	18.47	19.36	18.92
157	5785 MHz	18.10	17.50	18.51	18.10
165	5825 MHz	17.97	17.95	18.31	17.97

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.18	17.70	18.64	22.96
157	5785 MHz	17.75	17.34	18.32	22.59
165	5825 MHz	17.85	17.68	18.12	22.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 3 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.62	16.66	18.18	22.30
157	5785 MHz	17.56	17.21	17.62	22.24
166	5830 MHz	17.46	17.11	17.44	22.11

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.42	18.07	19.00	23.28
157	5785 MHz	17.72	17.30	18.10	22.49
165	5825 MHz	17.59	17.63	17.65	22.39

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.20	17.49	18.82	22.98
157	5785 MHz	17.86	17.84	18.34	22.79
165	5825 MHz	18.05	18.14	18.12	22.87

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	17.07	16.88	17.57	21.95
159	5795MHz	17.15	16.76	17.19	21.81

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.72	16.87	17.85	22.27
157	5785 MHz	17.44	17.20	17.80	22.26
166	5830 MHz	17.63	17.24	17.47	22.22

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.92	18.47	19.36	23.70
157	5785 MHz	18.10	17.50	18.51	22.83
165	5825 MHz	17.97	17.95	18.31	22.85

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.18	17.70	18.64	22.96
157	5785 MHz	17.75	17.34	18.32	22.59
165	5825 MHz	17.85	17.68	18.12	22.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 4 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	13.82	13.09	13.74	18.33
157	5785 MHz	13.46	13.10	13.57	18.15
166	5830 MHz	13.56	12.88	13.40	18.06

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.96	13.72	14.06	18.69
157	5785 MHz	13.87	13.62	14.01	18.61
165	5825 MHz	13.43	13.26	13.37	18.13

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.66	12.56	13.95	18.20
157	5785 MHz	13.40	13.14	13.74	18.21
165	5825 MHz	13.75	13.01	13.59	18.23

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	12.02	11.78	12.47	16.87
159	5795MHz	12.06	11.44	12.63	16.84

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	15.41	14.22	14.72	19.58
157	5785 MHz	14.09	14.11	15.01	19.20
166	5830 MHz	13.75	13.54	14.91	18.88

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	14.44	13.57	14.28	18.88
157	5785 MHz	13.75	13.40	13.75	18.41
165	5825 MHz	13.33	13.42	14.29	18.47

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	13.72	13.01	13.89	18.33
157	5785 MHz	13.42	13.56	14.15	18.49
165	5825 MHz	13.65	13.61	14.36	18.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test date	Jul. 24, 2012	Test Mode	Mode 4 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.62	16.66	18.18	22.30
157	5785 MHz	17.56	17.21	17.62	22.24
166	5830 MHz	17.46	17.11	17.44	22.11

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.42	18.07	19.00	23.28
157	5785 MHz	17.72	17.30	18.10	22.49
165	5825 MHz	17.59	17.63	17.65	22.39

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.20	17.49	18.82	22.98
157	5785 MHz	17.86	17.84	18.34	22.79
165	5825 MHz	18.05	18.14	18.12	22.87

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
151	5755 MHz	17.07	16.88	17.57	21.95
159	5795MHz	17.15	16.76	17.19	21.81

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
148	5740 MHz	17.72	16.87	17.85	22.27
157	5785 MHz	17.44	17.20	17.80	22.26
166	5830 MHz	17.63	17.24	17.47	22.22

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.92	18.47	19.36	23.70
157	5785 MHz	18.10	17.50	18.51	22.83
165	5825 MHz	17.97	17.95	18.31	22.85

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)			
		Chain 1	Chain 2	Chain 3	Total
149	5745 MHz	18.18	17.70	18.64	22.96
157	5785 MHz	17.75	17.34	18.32	22.59
165	5825 MHz	17.85	17.68	18.12	22.66

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 5 / P to M

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
148	5740 MHz	11.83	12.15	15.00
157	5785 MHz	11.62	12.09	14.87
166	5830 MHz	11.46	12.03	14.76

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	11.61	12.03	14.84
157	5785 MHz	11.65	12.03	14.85
165	5825 MHz	11.53	12.04	14.80

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	11.46	11.92	14.71
157	5785 MHz	11.35	11.92	14.65
165	5825 MHz	11.32	11.85	14.60

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
148	5740 MHz	12.66	12.13	15.41
157	5785 MHz	12.43	12.00	15.23
166	5830 MHz	12.21	12.33	15.28

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	12.61	11.62	15.15
157	5785 MHz	12.37	11.92	15.16
165	5825 MHz	12.11	12.05	15.09

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	12.26	11.42	14.87
157	5785 MHz	12.12	11.74	14.94
165	5825 MHz	11.90	11.72	14.82

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n /a
Test date	Jul. 24, 2012	Test Mode	Mode 5 / P to P

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
148	5740 MHz	21.50	21.85	24.69
157	5785 MHz	20.84	21.46	24.17
166	5830 MHz	20.96	21.54	24.27

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	21.13	21.67	24.42
157	5785 MHz	21.02	21.24	24.14
165	5825 MHz	20.97	21.24	24.12

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	20.86	21.43	24.16
157	5785 MHz	20.75	21.04	23.91
165	5825 MHz	20.62	20.98	23.81

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
148	5740 MHz	21.25	21.60	24.44
157	5785 MHz	21.05	21.50	24.29
166	5830 MHz	21.03	21.37	24.21

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	21.19	21.53	24.37
157	5785 MHz	20.91	21.36	24.15
165	5825 MHz	20.82	21.31	24.08

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	Average Conducted Power (dBm)		
		Chain 1	Chain 3	Total
149	5745 MHz	20.56	21.20	23.90
157	5785 MHz	20.46	21.10	23.80
165	5825 MHz	20.54	21.11	23.84

4.4. Power Spectral Density Measurement

4.4.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

4.4.2. Measuring Instruments and Setting

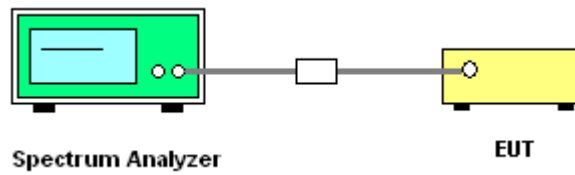
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Set the analyzer span to 5-30% greater than the EBW.
RB	100 KHz
VB	300 KHz
Detector	RMS
Trace	Single Sweep
Sweep Time	$\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{transmission symbol period})$.

4.4.3. Test Procedures

1. Test was performed in accordance with KDB 558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under § 15.247 section 5.3.2 Multiple antenna systems was performed in accordance with KDB 662911 in-Band Power Spectral Density (PSD) Measurements(2) Measure and add $10 \log(N)$ dB (as described in the preceding section).
2. Use this procedure when the maximum conducted output power in the fundamental emission is used to demonstrate compliance. The EUT must be configured to transmit continuously at full power over the measurement duration.
3. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$ (use of a greater number of measurement points than this minimum requirement is recommended).
4. Use the peak marker function to determine the maximum level in any 100 kHz band segment within the fundamental EBW.
5. Scale the observed power level to an equivalent level in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where: $\text{BWCF} = 10 \log (3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$.
6. The resulting PSD level must be $\leq 8 \text{ dBm}$.
7. When measuring power spectral density with multiple antenna systems, add every result of the values by mathematic formula.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Test Result of Power Spectral Density

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 1 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	4.50	5.75	4.95	-15.23	-10.73	-9.48	-10.28	1.23	Complies
157	5785 MHz	3.65	4.46	5.96	-15.23	-11.58	-10.77	-9.27	1.23	Complies
166	5830 MHz	4.43	5.63	5.47	-15.23	-10.80	-9.60	-9.76	1.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.48	2.76	3.11	-15.23	-13.75	-12.47	-12.12	1.23	Complies
157	5785 MHz	1.00	2.37	3.23	-15.23	-14.23	-12.86	-12.00	1.23	Complies
165	5825 MHz	1.57	2.51	2.94	-15.23	-13.66	-12.72	-12.29	1.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.67	2.12	2.58	-15.23	-13.56	-13.11	-12.65	1.23	Complies
157	5785 MHz	0.65	1.58	2.53	-15.23	-14.58	-13.65	-12.70	1.23	Complies
165	5825 MHz	7.59	8.39	8.27	-15.23	-7.64	-6.84	-6.96	1.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	-2.49	-1.89	-0.89	-15.23	-17.72	-17.12	-16.12	1.23	Complies
159	5795MHz	-3.45	-0.89	-1.76	-15.23	-18.68	-16.12	-16.99	1.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	8.17	7.23	7.78	-15.23	-7.06	-8.00	-7.45	1.23	Complies
157	5785 MHz	7.53	8.00	8.74	-15.23	-7.70	-7.23	-6.49	1.23	Complies
166	5830 MHz	8.82	9.35	9.14	-15.23	-6.41	-5.88	-6.09	1.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	4.83	4.11	4.09	-15.23	-10.40	-11.12	-11.14	1.23	Complies
157	5785 MHz	4.80	4.56	4.20	-15.23	-10.43	-10.67	-11.03	1.23	Complies
165	5825 MHz	4.71	6.00	3.90	-15.23	-10.52	-9.23	-11.33	1.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	2.68	1.81	2.16	-15.23	-12.55	-13.42	-13.07	1.23	Complies
157	5785 MHz	3.77	2.86	2.87	-15.23	-11.46	-12.37	-12.36	1.23	Complies
165	5825 MHz	4.40	4.33	3.91	-15.23	-10.83	-10.90	-11.32	1.23	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 1 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	7.89	8.64	8.96	-15.23	-7.34	-6.59	-6.27	3.23	Complies
157	5785 MHz	8.39	8.29	9.06	-15.23	-6.84	-6.94	-6.17	3.23	Complies
166	5830 MHz	8.11	8.56	8.77	-15.23	-7.12	-6.67	-6.46	3.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.66	6.39	7.49	-15.23	-7.57	-8.84	-7.74	3.23	Complies
157	5785 MHz	5.83	5.77	6.54	-15.23	-9.40	-9.46	-8.69	3.23	Complies
165	5825 MHz	6.09	6.17	6.74	-15.23	-9.14	-9.06	-8.49	3.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.15	4.40	5.63	-15.23	-10.08	-10.83	-9.60	3.23	Complies
157	5785 MHz	4.82	5.64	5.31	-15.23	-10.41	-9.59	-9.92	3.23	Complies
165	5825 MHz	5.09	5.15	5.02	-15.23	-10.14	-10.08	-10.21	3.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	1.36	1.48	1.96	-15.23	-13.87	-13.75	-13.27	3.23	Complies
159	5795MHz	2.47	1.77	1.58	-15.23	-12.76	-13.46	-13.65	3.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	9.34	8.33	10.27	-15.23	-5.89	-6.90	-4.96	3.23	Complies
157	5785 MHz	8.48	8.39	9.25	-15.23	-6.75	-6.84	-5.98	3.23	Complies
166	5830 MHz	8.95	8.13	9.07	-15.23	-6.28	-7.10	-6.16	3.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.36	6.55	8.00	-15.23	-7.87	-8.68	-7.23	3.23	Complies
157	5785 MHz	6.10	6.14	7.16	-15.23	-9.13	-9.09	-8.07	3.23	Complies
165	5825 MHz	6.08	7.23	6.37	-15.23	-9.15	-8.00	-8.86	3.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.92	5.57	5.71	-15.23	-9.31	-9.66	-9.52	3.23	Complies
157	5785 MHz	4.93	5.02	5.10	-15.23	-10.30	-10.21	-10.13	3.23	Complies
165	5825 MHz	4.70	5.11	5.70	-15.23	-10.53	-10.12	-9.53	3.23	Complies

Note: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 2 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	4.50	5.75	4.95	-15.23	-10.73	-9.48	-10.28	1.23	Complies
157	5785 MHz	3.65	4.46	5.96	-15.23	-11.58	-10.77	-9.27	1.23	Complies
166	5830 MHz	4.43	5.63	5.47	-15.23	-10.80	-9.60	-9.76	1.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.48	2.76	3.11	-15.23	-13.75	-12.47	-12.12	1.23	Complies
157	5785 MHz	1.00	2.37	3.23	-15.23	-14.23	-12.86	-12.00	1.23	Complies
165	5825 MHz	1.57	2.51	2.94	-15.23	-13.66	-12.72	-12.29	1.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.67	2.12	2.58	-15.23	-13.56	-13.11	-12.65	1.23	Complies
157	5785 MHz	0.65	1.58	2.53	-15.23	-14.58	-13.65	-12.70	1.23	Complies
165	5825 MHz	7.59	8.39	8.27	-15.23	-7.64	-6.84	-6.96	1.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	-2.49	-1.89	-0.89	-15.23	-17.72	-17.12	-16.12	1.23	Complies
159	5795MHz	-3.45	-0.89	-1.76	-15.23	-18.68	-16.12	-16.99	1.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	8.17	7.23	7.78	-15.23	-7.06	-8.00	-7.45	1.23	Complies
157	5785 MHz	7.53	8.00	8.74	-15.23	-7.70	-7.23	-6.49	1.23	Complies
166	5830 MHz	8.82	9.35	9.14	-15.23	-6.41	-5.88	-6.09	1.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	4.83	4.11	4.09	-15.23	-10.40	-11.12	-11.14	1.23	Complies
157	5785 MHz	4.80	4.56	4.20	-15.23	-10.43	-10.67	-11.03	1.23	Complies
165	5825 MHz	4.71	6.00	3.90	-15.23	-10.52	-9.23	-11.33	1.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	2.68	1.81	2.16	-15.23	-12.55	-13.42	-13.07	1.23	Complies
157	5785 MHz	3.77	2.86	2.87	-15.23	-11.46	-12.37	-12.36	1.23	Complies
165	5825 MHz	4.40	4.33	3.91	-15.23	-10.83	-10.90	-11.32	1.23	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 2 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	7.89	8.64	8.96	-15.23	-7.34	-6.59	-6.27	3.23	Complies
157	5785 MHz	8.39	8.29	9.06	-15.23	-6.84	-6.94	-6.17	3.23	Complies
166	5830 MHz	8.11	8.56	8.77	-15.23	-7.12	-6.67	-6.46	3.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.66	6.39	7.49	-15.23	-7.57	-8.84	-7.74	3.23	Complies
157	5785 MHz	5.83	5.77	6.54	-15.23	-9.40	-9.46	-8.69	3.23	Complies
165	5825 MHz	6.09	6.17	6.74	-15.23	-9.14	-9.06	-8.49	3.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.15	4.40	5.63	-15.23	-10.08	-10.83	-9.60	3.23	Complies
157	5785 MHz	4.82	5.64	5.31	-15.23	-10.41	-9.59	-9.92	3.23	Complies
165	5825 MHz	5.09	5.15	5.02	-15.23	-10.14	-10.08	-10.21	3.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	1.36	1.48	1.96	-15.23	-13.87	-13.75	-13.27	3.23	Complies
159	5795MHz	2.47	1.77	1.58	-15.23	-12.76	-13.46	-13.65	3.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	9.34	8.33	10.27	-15.23	-5.89	-6.90	-4.96	3.23	Complies
157	5785 MHz	8.48	8.39	9.25	-15.23	-6.75	-6.84	-5.98	3.23	Complies
166	5830 MHz	8.95	8.13	9.07	-15.23	-6.28	-7.10	-6.16	3.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.36	6.55	8.00	-15.23	-7.87	-8.68	-7.23	3.23	Complies
157	5785 MHz	6.10	6.14	7.16	-15.23	-9.13	-9.09	-8.07	3.23	Complies
165	5825 MHz	6.08	7.23	6.37	-15.23	-9.15	-8.00	-8.86	3.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.92	5.57	5.71	-15.23	-9.31	-9.66	-9.52	3.23	Complies
157	5785 MHz	4.93	5.02	5.10	-15.23	-10.30	-10.21	-10.13	3.23	Complies
165	5825 MHz	4.70	5.11	5.70	-15.23	-10.53	-10.12	-9.53	3.23	Complies

Note: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 3 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	7.89	8.64	8.96	-15.23	-7.34	-6.59	-6.27	3.23	Complies
157	5785 MHz	8.39	8.29	9.06	-15.23	-6.84	-6.94	-6.17	3.23	Complies
166	5830 MHz	8.11	8.56	8.77	-15.23	-7.12	-6.67	-6.46	3.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.66	6.39	7.49	-15.23	-7.57	-8.84	-7.74	3.23	Complies
157	5785 MHz	5.83	5.77	6.54	-15.23	-9.40	-9.46	-8.69	3.23	Complies
165	5825 MHz	6.09	6.17	6.74	-15.23	-9.14	-9.06	-8.49	3.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	6.10	5.39	6.03	-15.23	-9.13	-9.84	-9.20	3.23	Complies
157	5785 MHz	6.17	5.49	5.11	-15.23	-9.06	-9.74	-10.12	3.23	Complies
165	5825 MHz	4.13	4.85	4.28	-15.23	-11.10	-10.38	-10.95	3.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	0.45	0.40	0.72	-15.23	-14.78	-14.83	-14.51	3.23	Complies
159	5795MHz	0.13	-0.21	-0.53	-15.23	-15.10	-15.44	-15.76	3.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	9.34	8.33	10.27	-15.23	-5.89	-6.90	-4.96	3.23	Complies
157	5785 MHz	8.48	8.39	9.25	-15.23	-6.75	-6.84	-5.98	3.23	Complies
166	5830 MHz	8.95	8.13	9.07	-15.23	-6.28	-7.10	-6.16	3.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.36	6.55	8.00	-15.23	-7.87	-8.68	-7.23	3.23	Complies
157	5785 MHz	6.10	6.14	7.16	-15.23	-9.13	-9.09	-8.07	3.23	Complies
165	5825 MHz	6.08	7.23	6.37	-15.23	-9.15	-8.00	-8.86	3.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.92	5.57	5.71	-15.23	-9.31	-9.66	-9.52	3.23	Complies
157	5785 MHz	4.93	5.02	5.10	-15.23	-10.30	-10.21	-10.13	3.23	Complies
165	5825 MHz	4.70	5.11	5.70	-15.23	-10.53	-10.12	-9.53	3.23	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 3 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	7.89	8.64	8.96	-15.23	-7.34	-6.59	-6.27	3.23	Complies
157	5785 MHz	8.39	8.29	9.06	-15.23	-6.84	-6.94	-6.17	3.23	Complies
166	5830 MHz	8.11	8.56	8.77	-15.23	-7.12	-6.67	-6.46	3.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.66	6.39	7.49	-15.23	-7.57	-8.84	-7.74	3.23	Complies
157	5785 MHz	5.83	5.77	6.54	-15.23	-9.40	-9.46	-8.69	3.23	Complies
165	5825 MHz	6.09	6.17	6.74	-15.23	-9.14	-9.06	-8.49	3.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.15	4.40	5.63	-15.23	-10.08	-10.83	-9.60	3.23	Complies
157	5785 MHz	4.82	5.64	5.31	-15.23	-10.41	-9.59	-9.92	3.23	Complies
165	5825 MHz	5.09	5.15	5.02	-15.23	-10.14	-10.08	-10.21	3.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	1.36	1.48	1.96	-15.23	-13.87	-13.75	-13.27	3.23	Complies
159	5795MHz	2.47	1.77	1.58	-15.23	-12.76	-13.46	-13.65	3.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	9.34	8.33	10.27	-15.23	-5.89	-6.90	-4.96	3.23	Complies
157	5785 MHz	8.48	8.39	9.25	-15.23	-6.75	-6.84	-5.98	3.23	Complies
166	5830 MHz	8.95	8.13	9.07	-15.23	-6.28	-7.10	-6.16	3.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.36	6.55	8.00	-15.23	-7.87	-8.68	-7.23	3.23	Complies
157	5785 MHz	6.10	6.14	7.16	-15.23	-9.13	-9.09	-8.07	3.23	Complies
165	5825 MHz	6.08	7.23	6.37	-15.23	-9.15	-8.00	-8.86	3.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.92	5.57	5.71	-15.23	-9.31	-9.66	-9.52	3.23	Complies
157	5785 MHz	4.93	5.02	5.10	-15.23	-10.30	-10.21	-10.13	3.23	Complies
165	5825 MHz	4.70	5.11	5.70	-15.23	-10.53	-10.12	-9.53	3.23	Complies

Note: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 4 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	4.50	5.75	4.95	-15.23	-10.73	-9.48	-10.28	1.23	Complies
157	5785 MHz	3.65	4.46	5.96	-15.23	-11.58	-10.77	-9.27	1.23	Complies
166	5830 MHz	4.43	5.63	5.47	-15.23	-10.80	-9.60	-9.76	1.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.48	2.76	3.11	-15.23	-13.75	-12.47	-12.12	1.23	Complies
157	5785 MHz	1.00	2.37	3.23	-15.23	-14.23	-12.86	-12.00	1.23	Complies
165	5825 MHz	1.57	2.51	2.94	-15.23	-13.66	-12.72	-12.29	1.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	1.67	2.12	2.58	-15.23	-13.56	-13.11	-12.65	1.23	Complies
157	5785 MHz	0.65	1.58	2.53	-15.23	-14.58	-13.65	-12.70	1.23	Complies
165	5825 MHz	7.59	8.39	8.27	-15.23	-7.64	-6.84	-6.96	1.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	-2.49	-1.89	-0.89	-15.23	-17.72	-17.12	-16.12	1.23	Complies
159	5795MHz	-3.45	-0.89	-1.76	-15.23	-18.68	-16.12	-16.99	1.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	8.17	7.23	7.78	-15.23	-7.06	-8.00	-7.45	1.23	Complies
157	5785 MHz	7.53	8.00	8.74	-15.23	-7.70	-7.23	-6.49	1.23	Complies
166	5830 MHz	8.82	9.35	9.14	-15.23	-6.41	-5.88	-6.09	1.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	4.83	4.11	4.09	-15.23	-10.40	-11.12	-11.14	1.23	Complies
157	5785 MHz	4.80	4.56	4.20	-15.23	-10.43	-10.67	-11.03	1.23	Complies
165	5825 MHz	4.71	6.00	3.90	-15.23	-10.52	-9.23	-11.33	1.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	2.68	1.81	2.16	-15.23	-12.55	-13.42	-13.07	1.23	Complies
157	5785 MHz	3.77	2.86	2.87	-15.23	-11.46	-12.37	-12.36	1.23	Complies
165	5825 MHz	4.40	4.33	3.91	-15.23	-10.83	-10.90	-11.32	1.23	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 4 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	7.89	8.64	8.96	-15.23	-7.34	-6.59	-6.27	3.23	Complies
157	5785 MHz	8.39	8.29	9.06	-15.23	-6.84	-6.94	-6.17	3.23	Complies
166	5830 MHz	8.11	8.56	8.77	-15.23	-7.12	-6.67	-6.46	3.23	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.66	6.39	7.49	-15.23	-7.57	-8.84	-7.74	3.23	Complies
157	5785 MHz	5.83	5.77	6.54	-15.23	-9.40	-9.46	-8.69	3.23	Complies
165	5825 MHz	6.09	6.17	6.74	-15.23	-9.14	-9.06	-8.49	3.23	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.15	4.40	5.63	-15.23	-10.08	-10.83	-9.60	3.23	Complies
157	5785 MHz	4.82	5.64	5.31	-15.23	-10.41	-9.59	-9.92	3.23	Complies
165	5825 MHz	5.09	5.15	5.02	-15.23	-10.14	-10.08	-10.21	3.23	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
151	5755 MHz	1.36	1.48	1.96	-15.23	-13.87	-13.75	-13.27	3.23	Complies
159	5795MHz	2.47	1.77	1.58	-15.23	-12.76	-13.46	-13.65	3.23	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
148	5740 MHz	9.34	8.33	10.27	-15.23	-5.89	-6.90	-4.96	3.23	Complies
157	5785 MHz	8.48	8.39	9.25	-15.23	-6.75	-6.84	-5.98	3.23	Complies
166	5830 MHz	8.95	8.13	9.07	-15.23	-6.28	-7.10	-6.16	3.23	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	7.36	6.55	8.00	-15.23	-7.87	-8.68	-7.23	3.23	Complies
157	5785 MHz	6.10	6.14	7.16	-15.23	-9.13	-9.09	-8.07	3.23	Complies
165	5825 MHz	6.08	7.23	6.37	-15.23	-9.15	-8.00	-8.86	3.23	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)			BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)			Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2	Chain 3		Chain 1	Chain 2	Chain 3		
149	5745 MHz	5.92	5.57	5.71	-15.23	-9.31	-9.66	-9.52	3.23	Complies
157	5785 MHz	4.93	5.02	5.10	-15.23	-10.30	-10.21	-10.13	3.23	Complies
165	5825 MHz	4.70	5.11	5.70	-15.23	-10.53	-10.12	-9.53	3.23	Complies

Note: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 5 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
148	5740 MHz	4.04	4.71	-15.23	-11.19	-10.52	-1.01	Complies
157	5785 MHz	4.71	4.72	-15.23	-10.52	-10.51	-1.01	Complies
166	5830 MHz	3.86	4.84	-15.23	-11.37	-10.39	-1.01	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	1.48	1.50	-15.23	-13.75	-13.73	-1.01	Complies
157	5785 MHz	1.18	1.71	-15.23	-14.05	-13.52	-1.01	Complies
165	5825 MHz	1.07	1.84	-15.23	-14.16	-13.39	-1.01	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	0.38	-0.02	-15.23	-14.85	-15.25	-1.01	Complies
157	5785 MHz	0.26	0.45	-15.23	-14.97	-14.78	-1.01	Complies
165	5825 MHz	0.35	1.05	-15.23	-14.88	-14.18	-1.01	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
148	5740 MHz	5.64	6.44	-15.23	-9.59	-8.79	-1.01	Complies
157	5785 MHz	5.47	6.15	-15.23	-9.76	-9.08	-1.01	Complies
166	5830 MHz	5.87	6.81	-15.23	-9.36	-8.42	-1.01	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	2.98	1.86	-15.23	-12.25	-13.37	-1.01	Complies
157	5785 MHz	2.20	1.88	-15.23	-13.03	-13.35	-1.01	Complies
165	5825 MHz	2.05	1.93	-15.23	-13.18	-13.30	-1.01	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	1.77	0.44	-15.23	-13.46	-14.79	-1.01	Complies
157	5785 MHz	1.61	0.56	-15.23	-13.62	-14.67	-1.01	Complies
165	5825 MHz	1.51	0.82	-15.23	-13.72	-14.41	-1.01	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 5 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
148	5740 MHz	13.49	14.33	-15.23	-1.74	-0.90	4.99	Complies
157	5785 MHz	13.53	13.78	-15.23	-1.70	-1.45	4.99	Complies
166	5830 MHz	13.70	13.97	-15.23	-1.53	-1.26	4.99	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	11.01	11.34	-15.23	-4.22	-3.89	4.99	Complies
157	5785 MHz	10.91	11.67	-15.23	-4.32	-3.56	4.99	Complies
165	5825 MHz	10.90	11.30	-15.23	-4.33	-3.93	4.99	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	9.86	10.69	-15.23	-5.37	-4.54	4.99	Complies
157	5785 MHz	9.84	10.47	-15.23	-5.39	-4.76	4.99	Complies
165	5825 MHz	9.55	10.28	-15.23	-5.68	-4.95	4.99	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
148	5740 MHz	14.24	15.43	-15.23	-0.99	0.20	4.99	Complies
157	5785 MHz	14.01	15.29	-15.23	-1.22	0.06	4.99	Complies
166	5830 MHz	13.72	15.38	-15.23	-1.51	0.15	4.99	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	Power Density (dBm/100kHz)		BWCF factor (100KHz to 3KHz)	Power Density (dBm/3kHz)		Single Port. Limit (dBm/3kHz)	Result
		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	11.34	11.50	-15.23	-3.89	-3.73	4.99	Complies
157	5785 MHz	10.83	11.53	-15.23	-4.40	-3.70	4.99	Complies
165	5825 MHz	11.08	11.46	-15.23	-4.15	-3.77	4.99	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

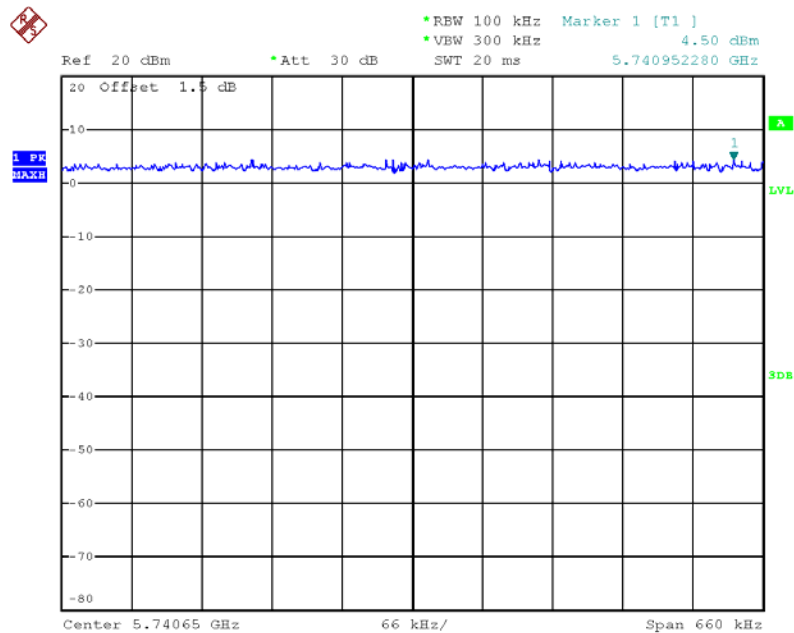
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		Chain 1	Chain 3		Chain 1	Chain 3		
149	5745 MHz	9.90	10.31	-15.23	-5.33	-4.92	4.99	Complies
157	5785 MHz	9.52	10.01	-15.23	-5.71	-5.22	4.99	Complies
165	5825 MHz	9.77	10.70	-15.23	-5.46	-4.53	4.99	Complies

Note: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.

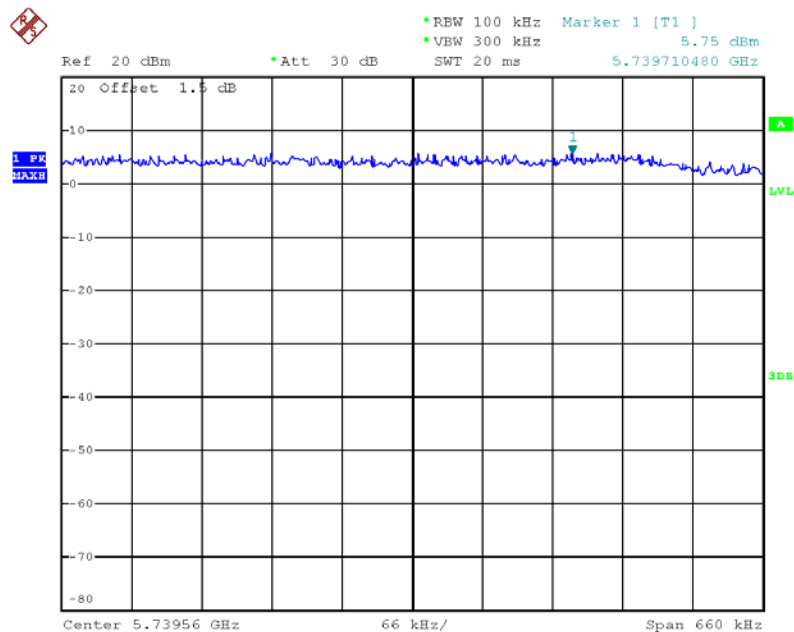
For P to M

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5740 MHz / Mode 1



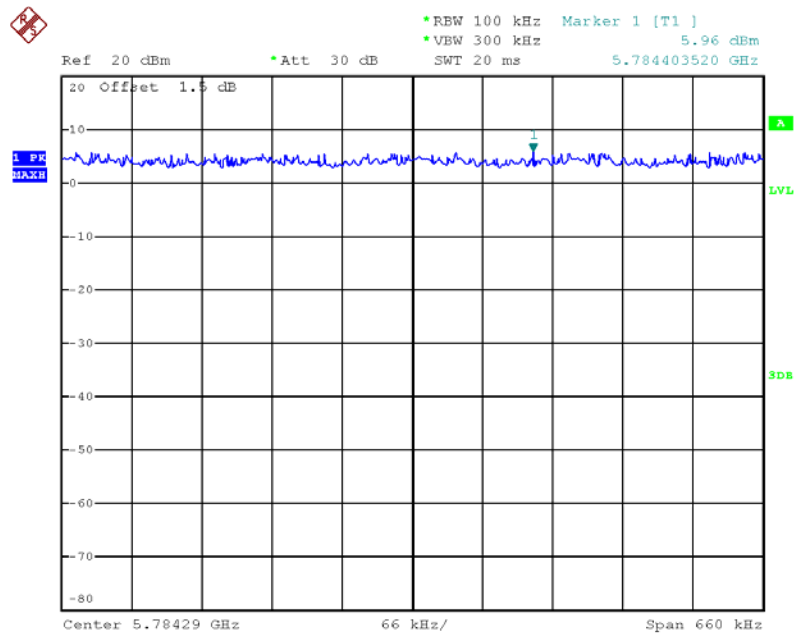
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 1



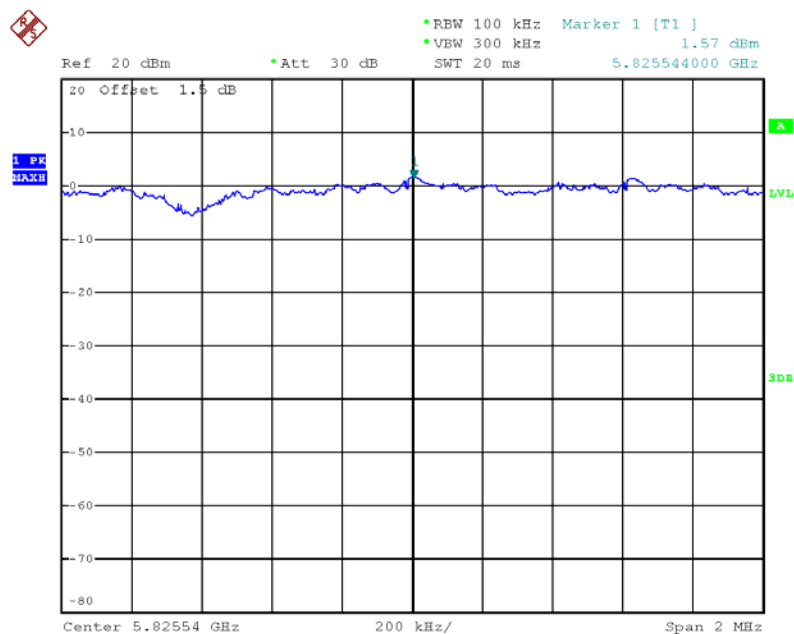
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 1



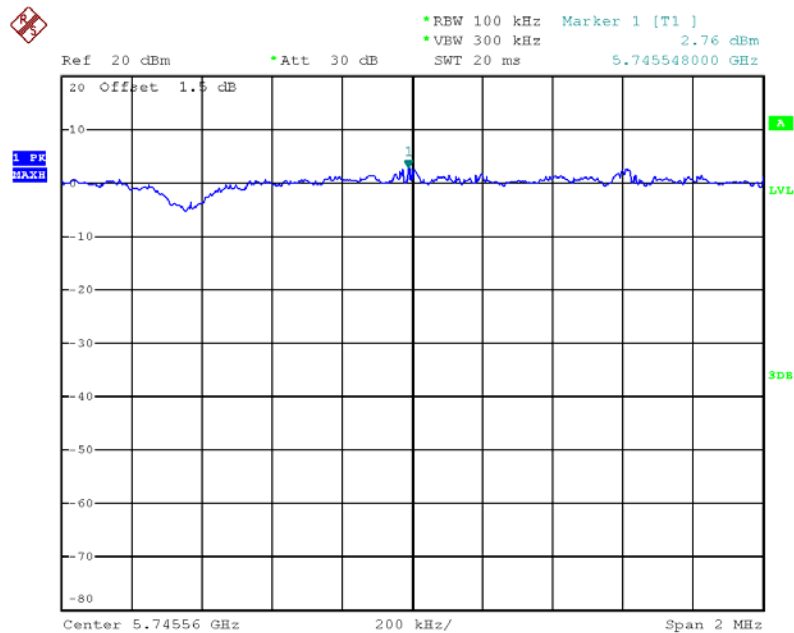
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5825 MHz / Mode 1



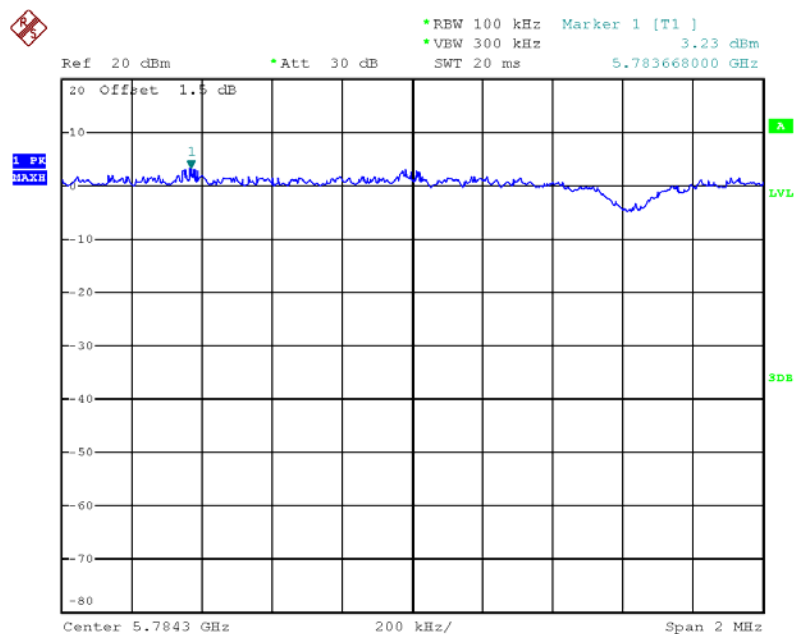
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 1



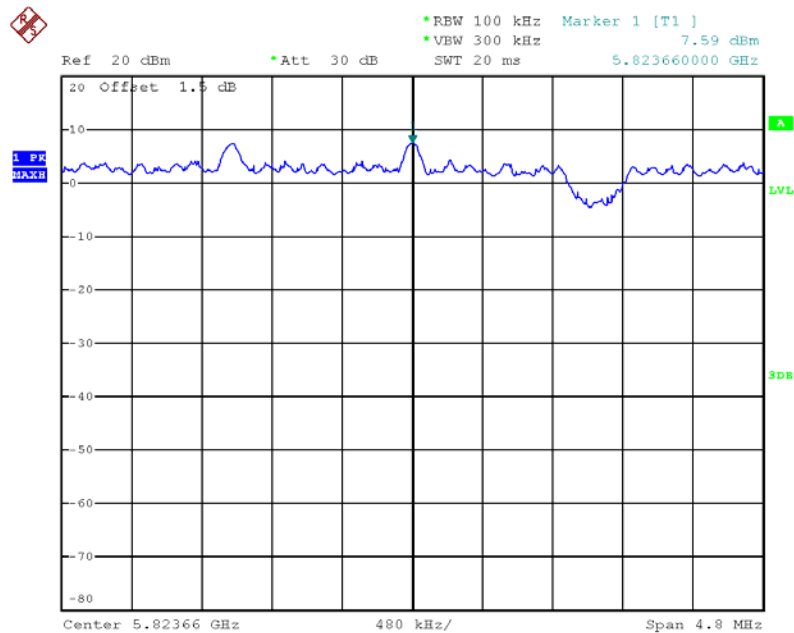
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5785 MHz / Mode 1



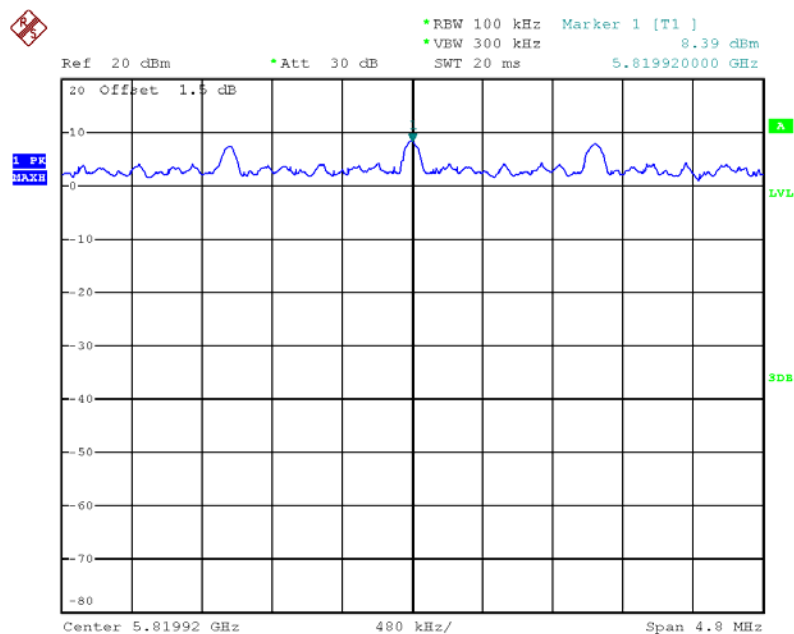
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5825 MHz / Mode 1



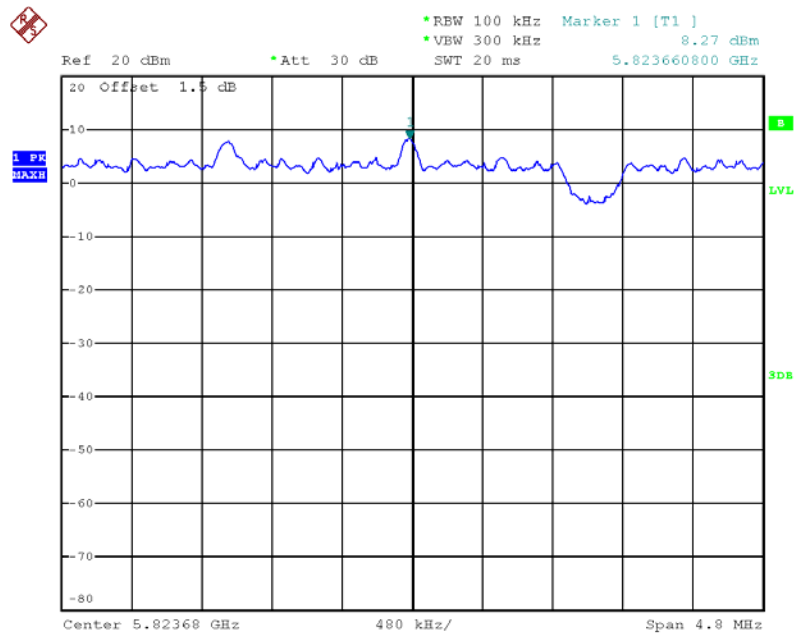
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5825 MHz / Mode 1



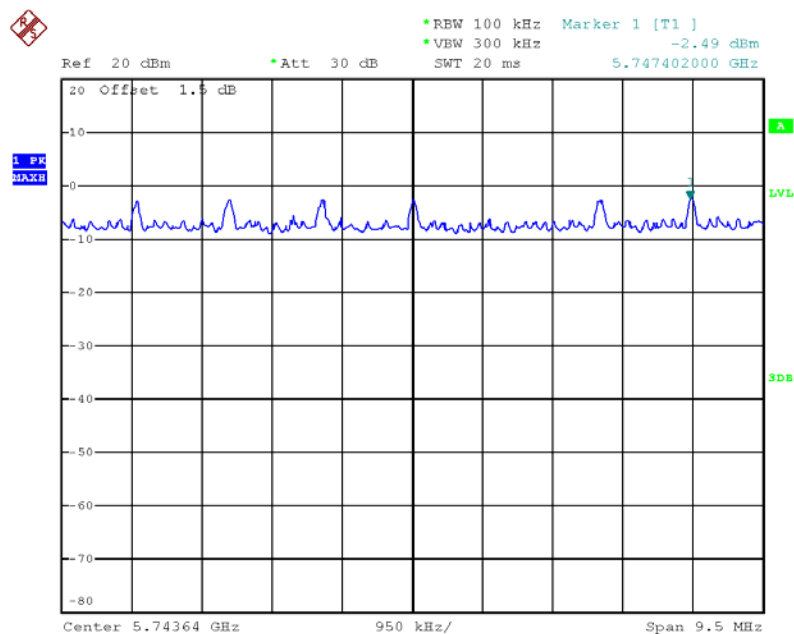
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5825 MHz / Mode 1



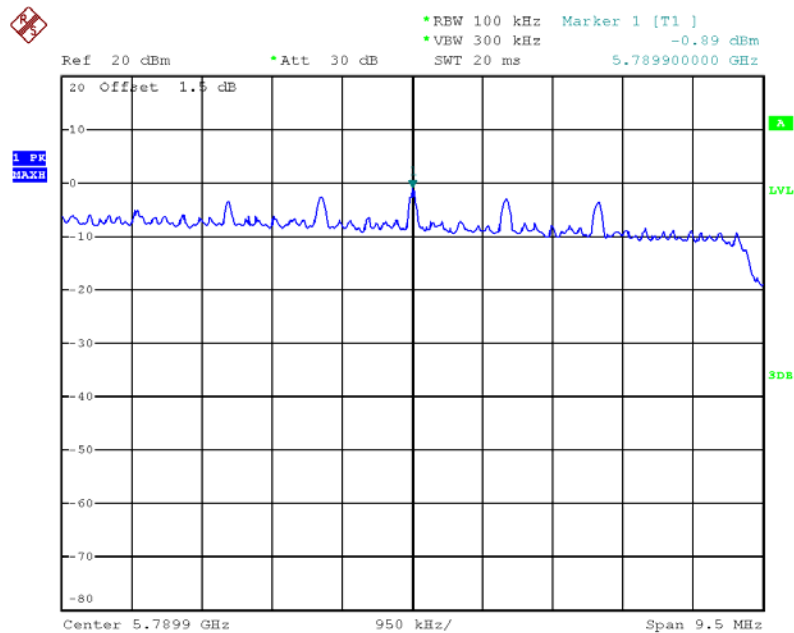
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz / Mode 1



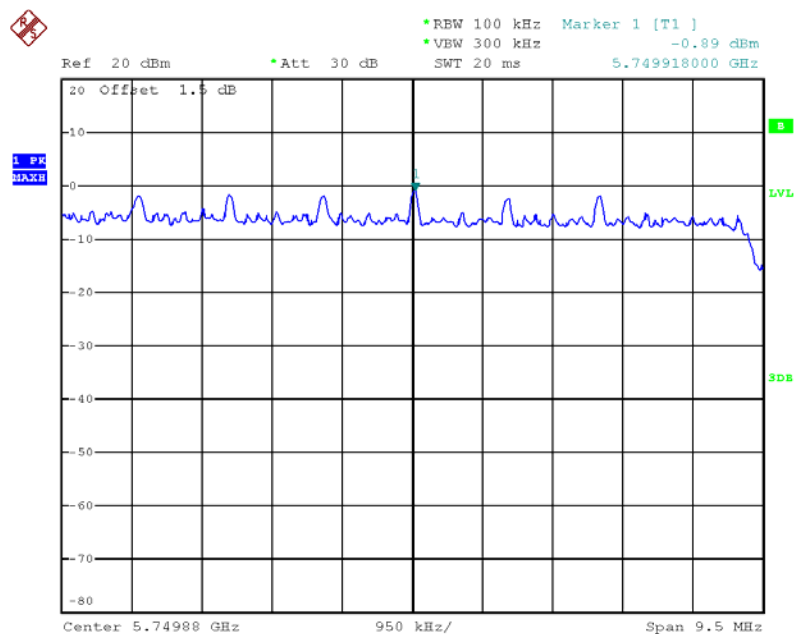
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 1



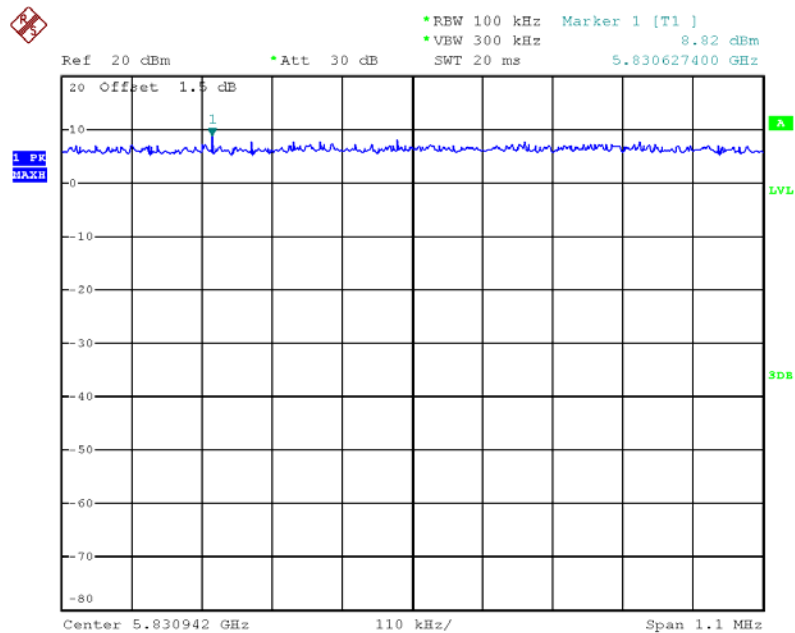
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 1



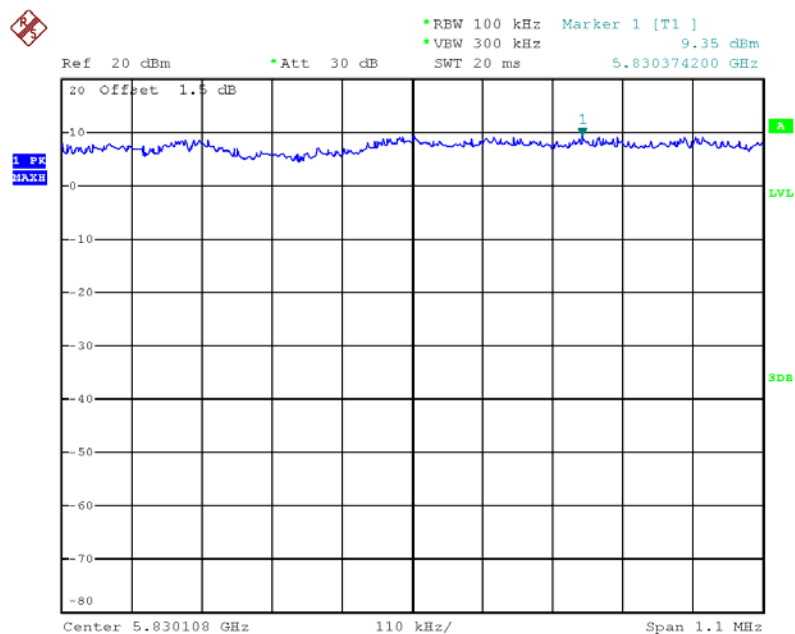
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5830 MHz / Mode 1



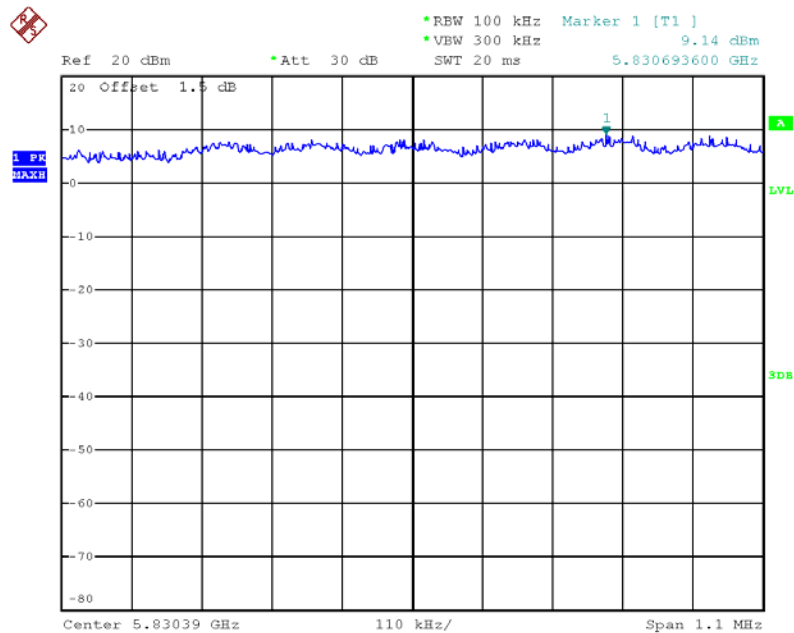
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 5830 MHz / Mode 1



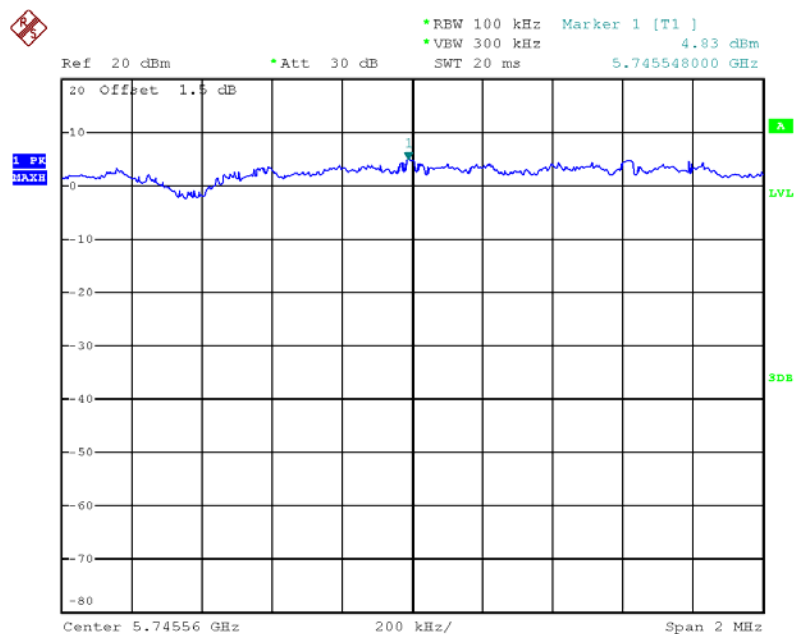
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5830 MHz / Mode 1



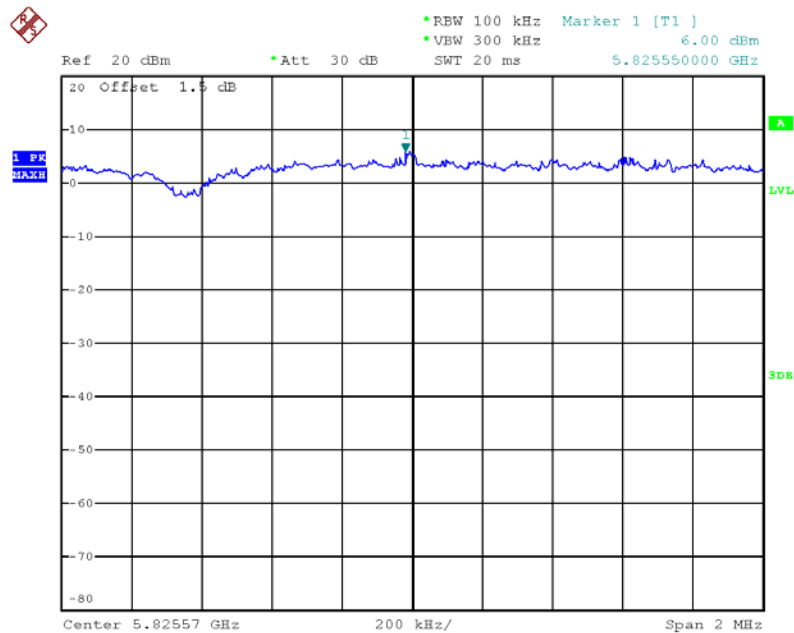
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 1



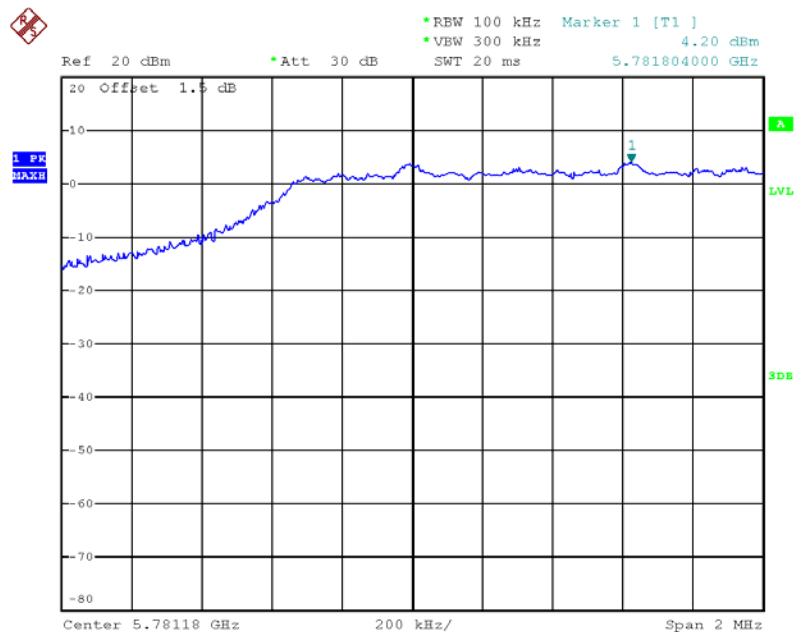
Date: 9.AUG.2012 17:18:58

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5825 MHz / Mode 1



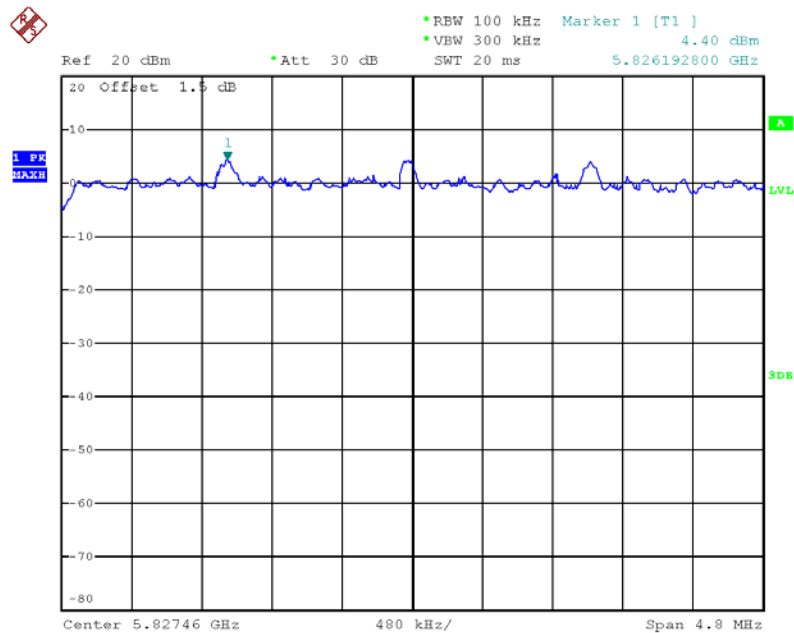
Date: 9.AUG.2012 17:11:23

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5785 MHz / Mode 1



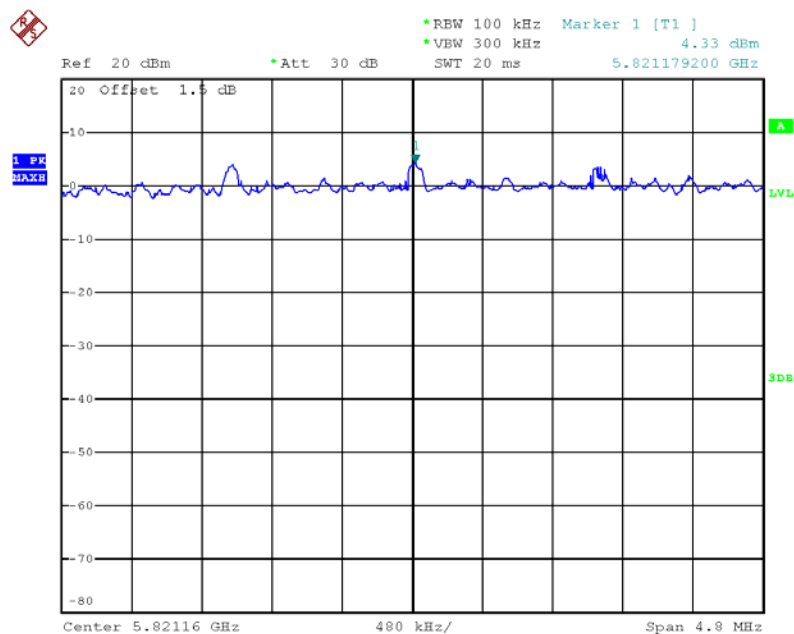
Date: 9.AUG.2012 17:16:03

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5825 MHz / Mode 1



Date: 9.AUG.2012 14:16:24

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5825 MHz / Mode 1



Date: 9.AUG.2012 14:17:24



Ref 20 dBm Att 30 dB RBW 100 kHz VEW 300 kHz SWT 20 ms Marker 1 [T1] 3.91 dBm 5.827420800 GHz

20 Offset 1.5 dB

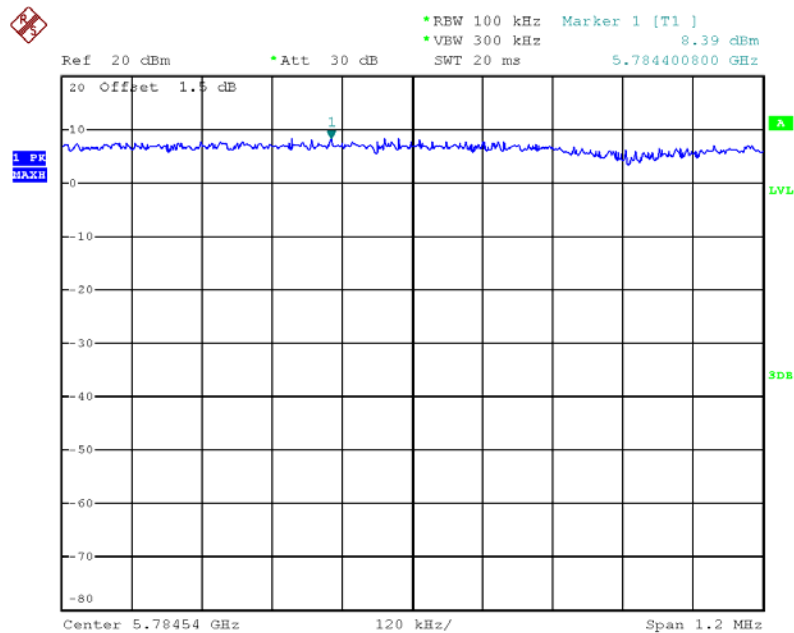
1 PK MAXH

Center 5.82744 GHz 480 kHz/ Span 4.8 MHz

Date: 9.AUG.2012 14:18:31

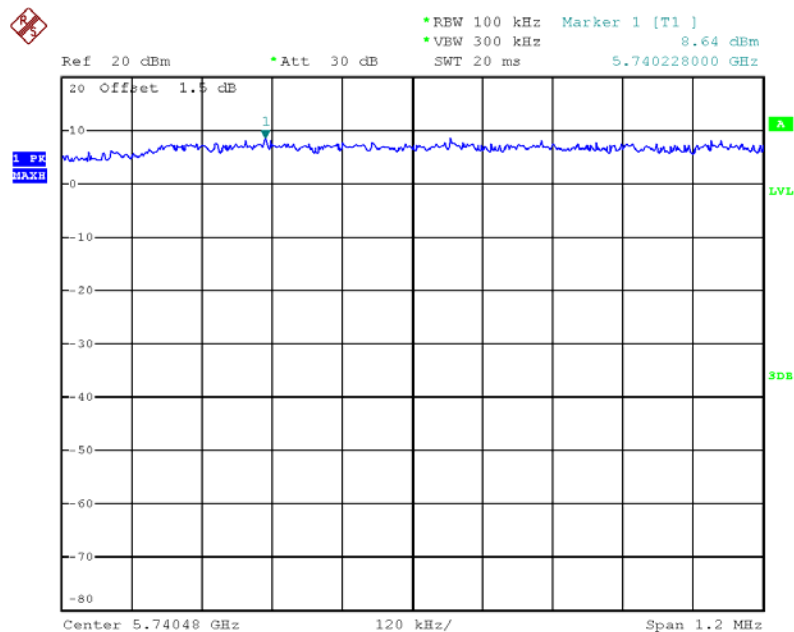
For P to P

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5785 MHz / Mode 1



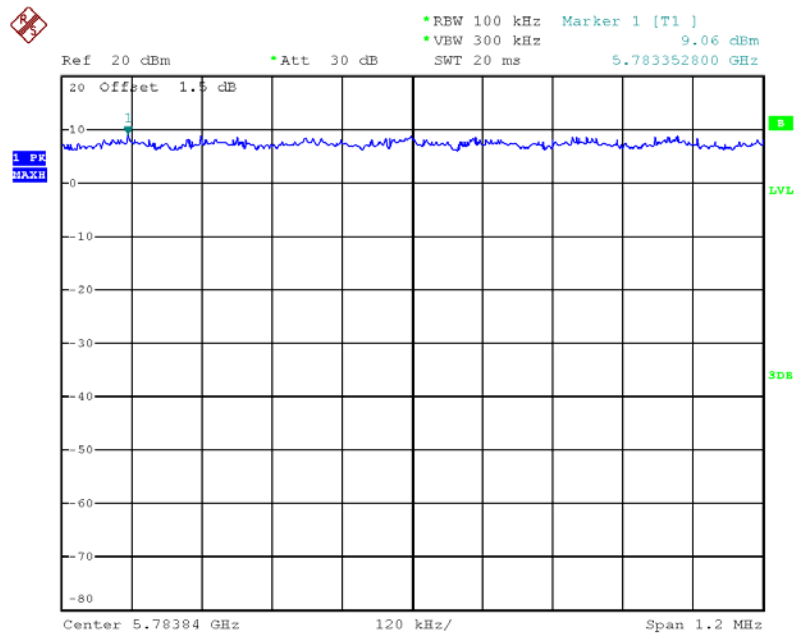
Date: 21.JUL.2012 09:23:33

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 1



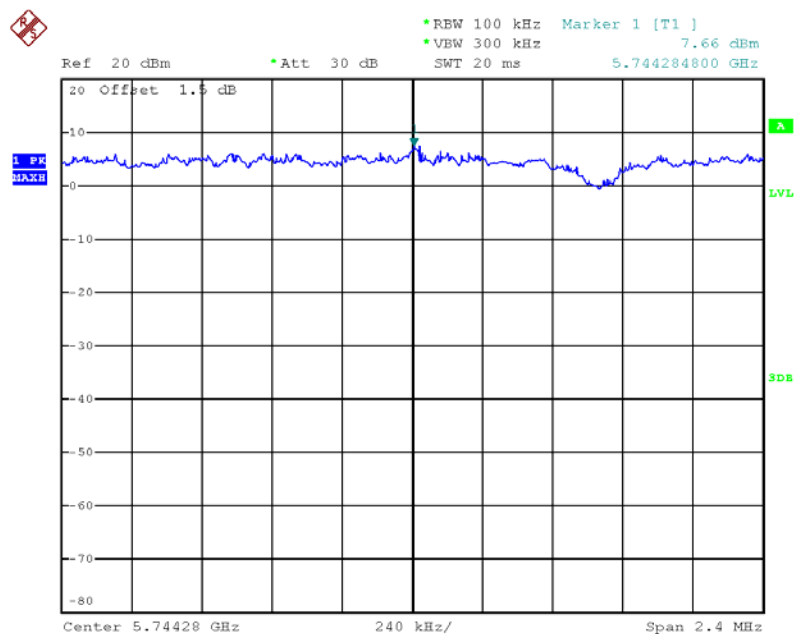
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 1



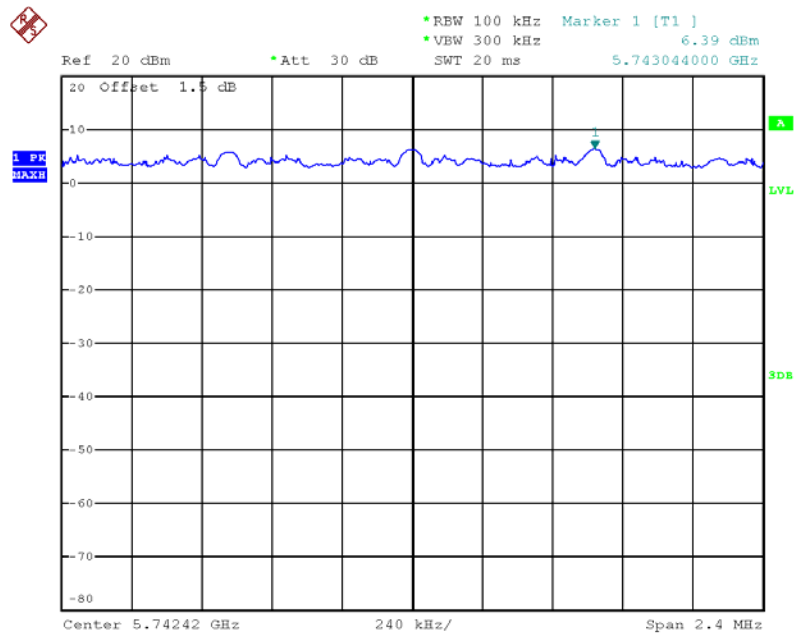
Date: 21.JUL.2012 13:36:32

Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 1



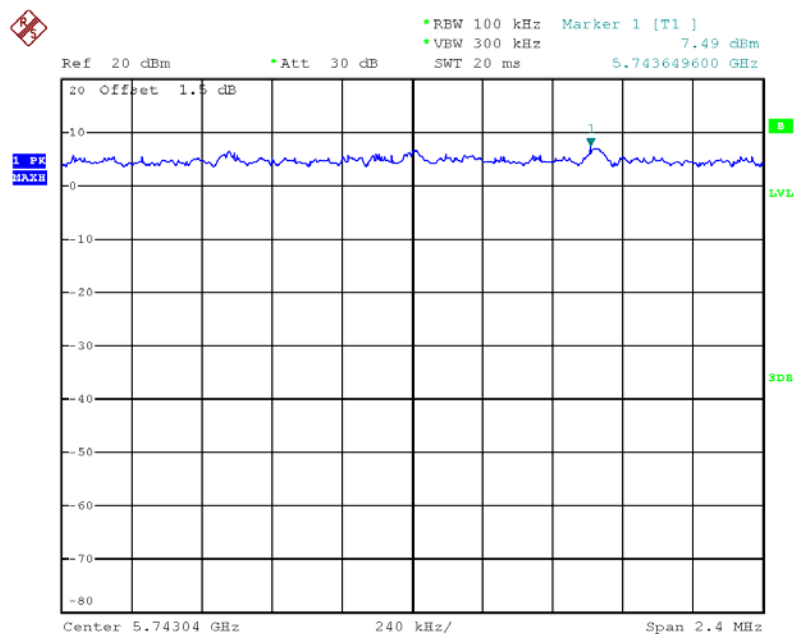
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 1



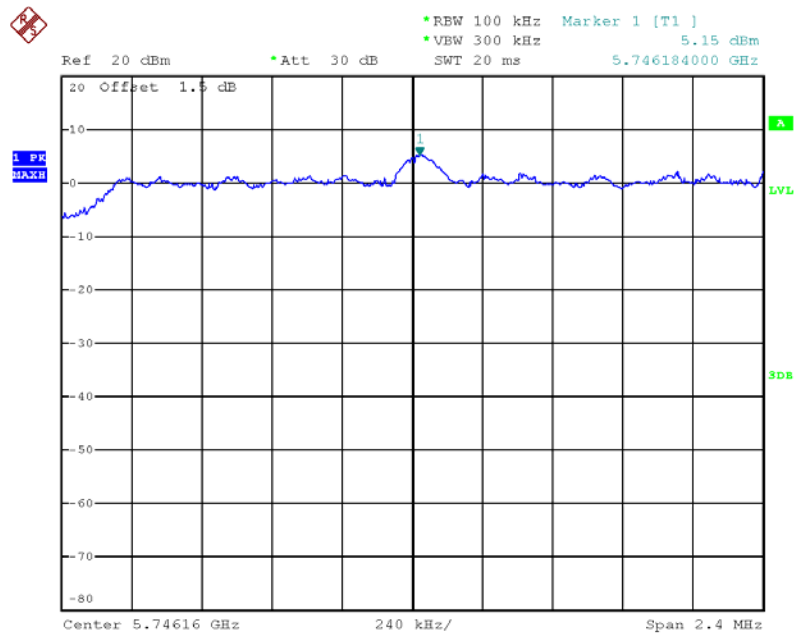
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5745 MHz / Mode 1



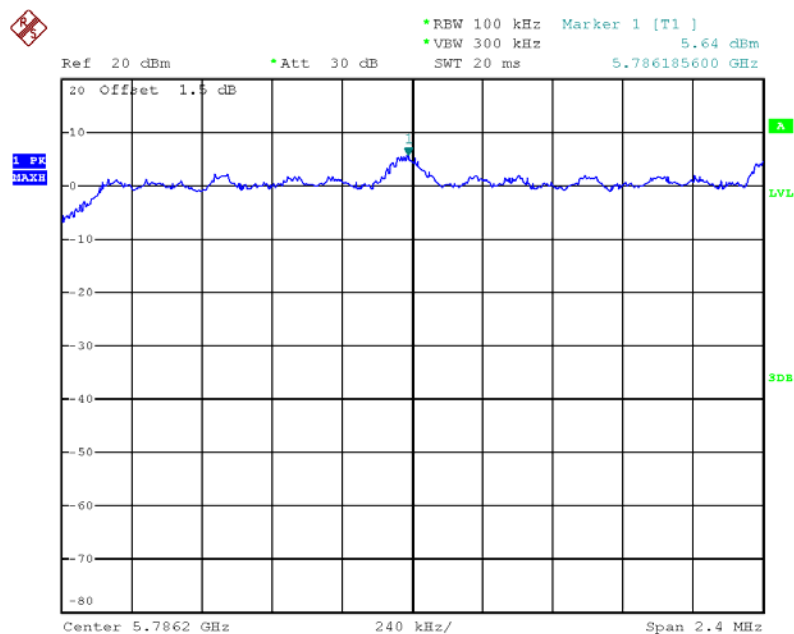
Date: 21.JUL.2012 13:31:23

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 1



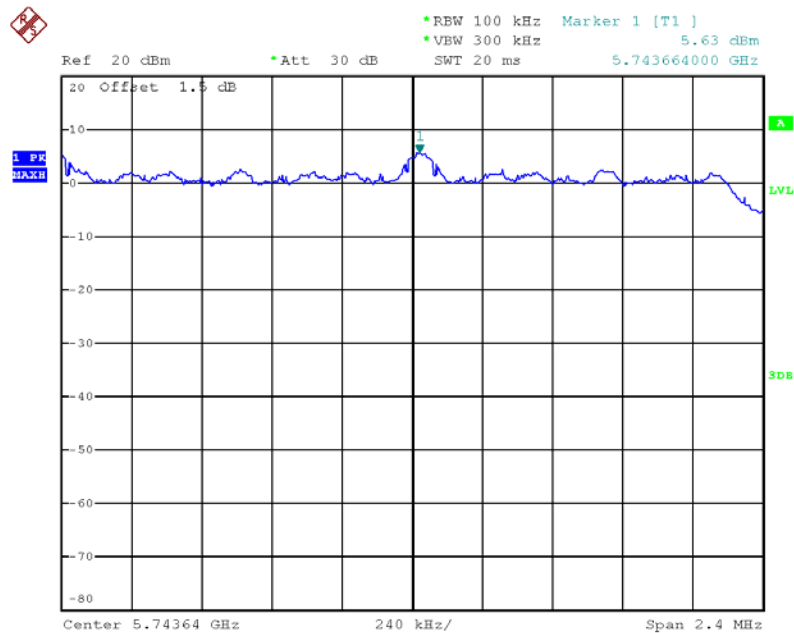
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 1



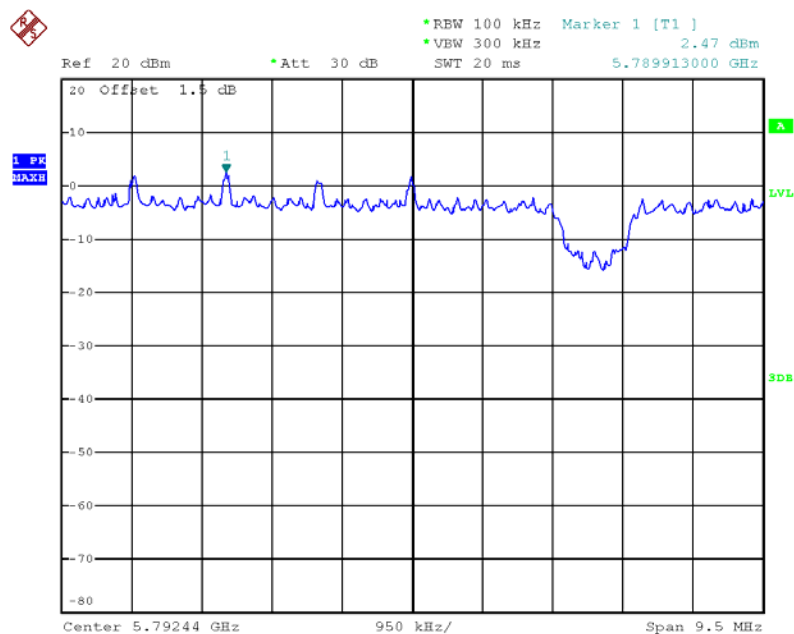
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 1



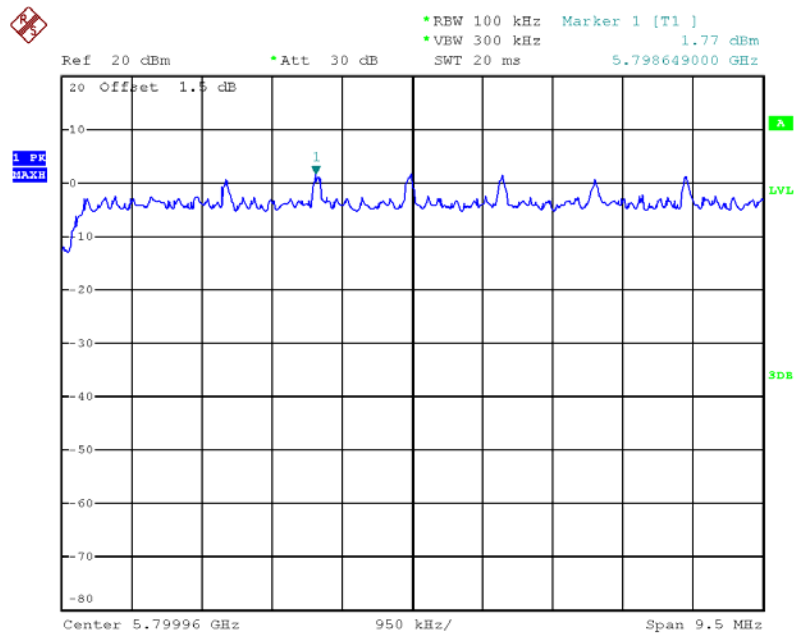
Date: 22.JUL.2012 11:02:02

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 1



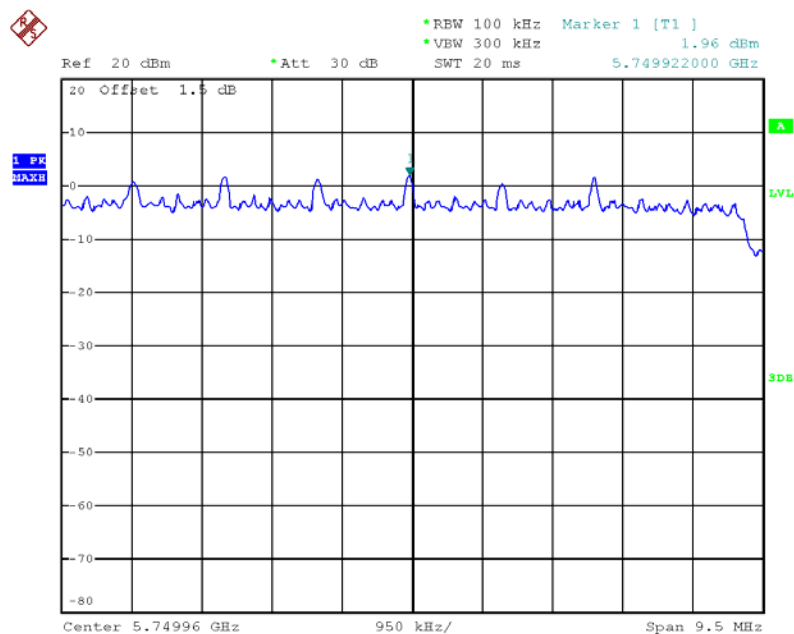
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 1



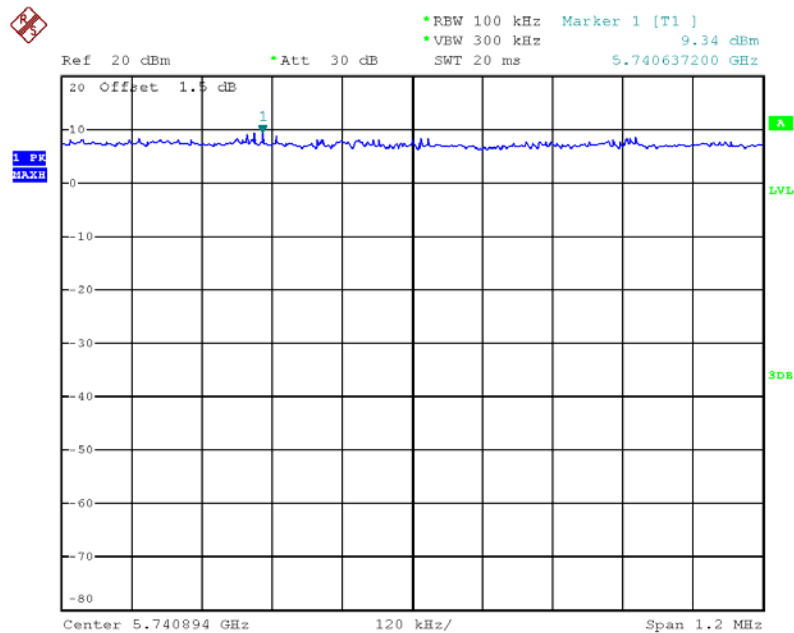
Date: 22.JUL.2012 11:08:56

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 1



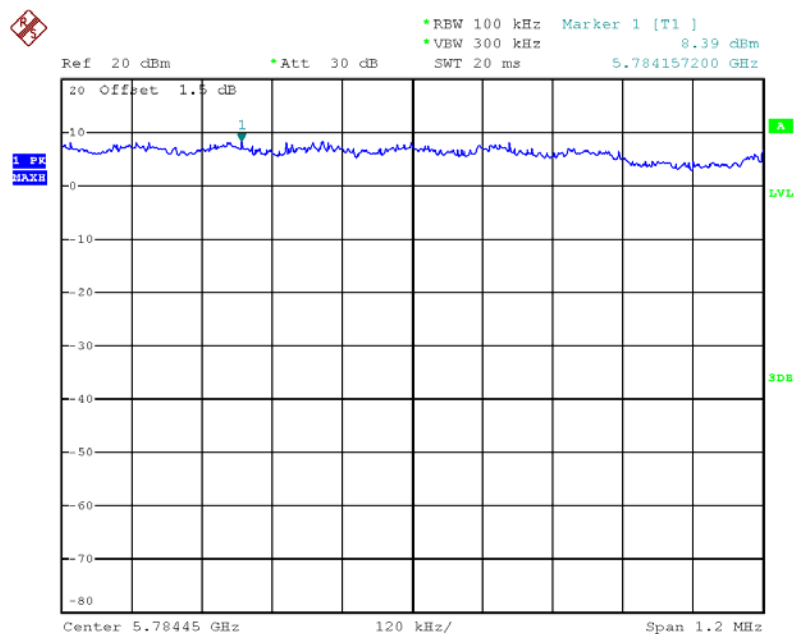
Date: 22.JUL.2012 11:11:44

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 1



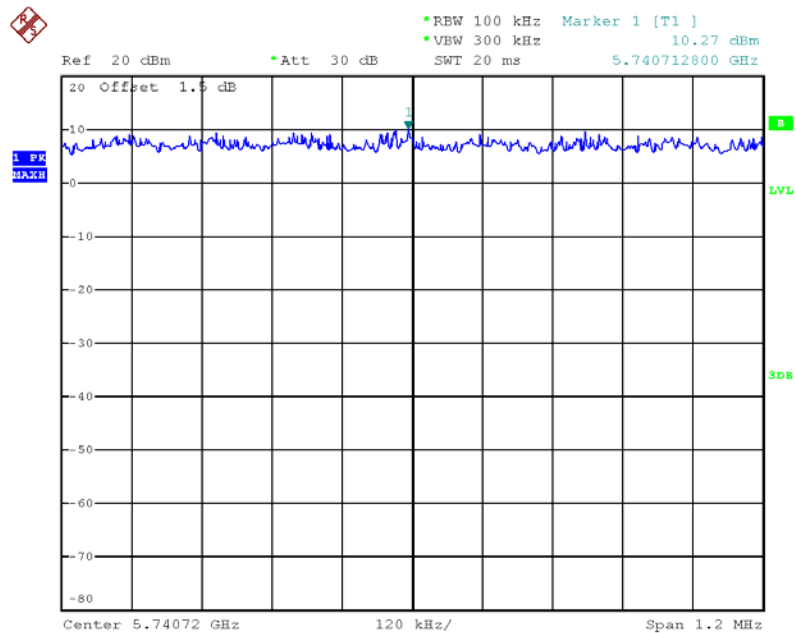
Date: 21.JUL.2012 09:05:17

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 57850 MHz / Mode 1



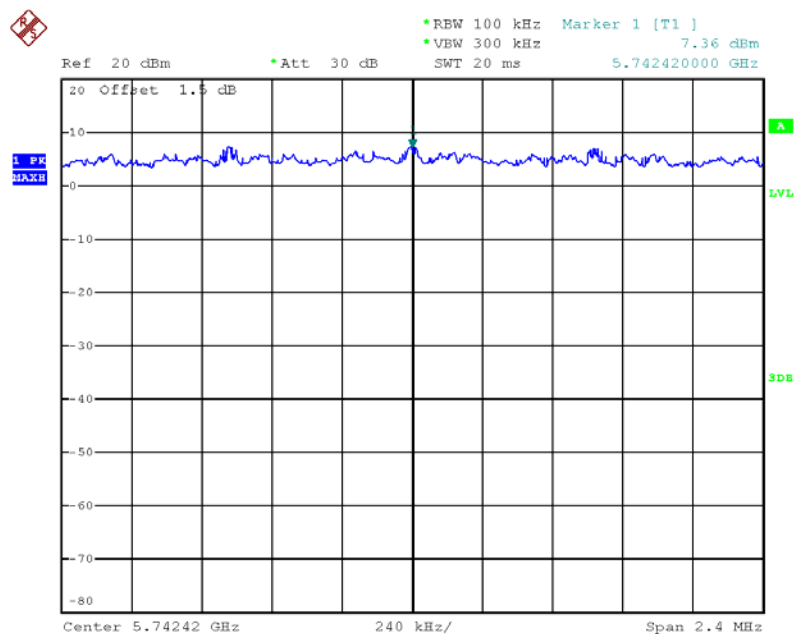
Date: 21.JUL.2012 09:09:54

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5740 MHz / Mode 1



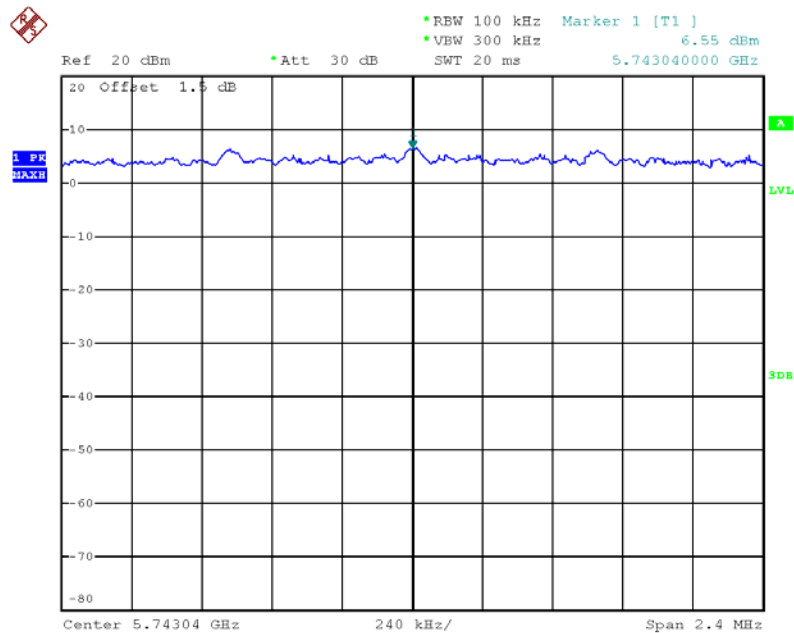
Date: 21.JUL.2012 13:42:26

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 1



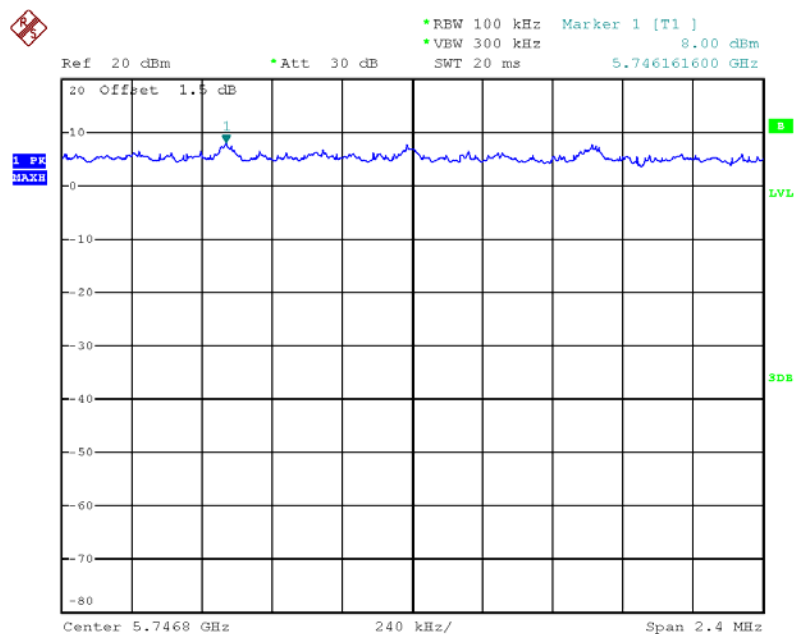
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5745 MHz / Mode 1



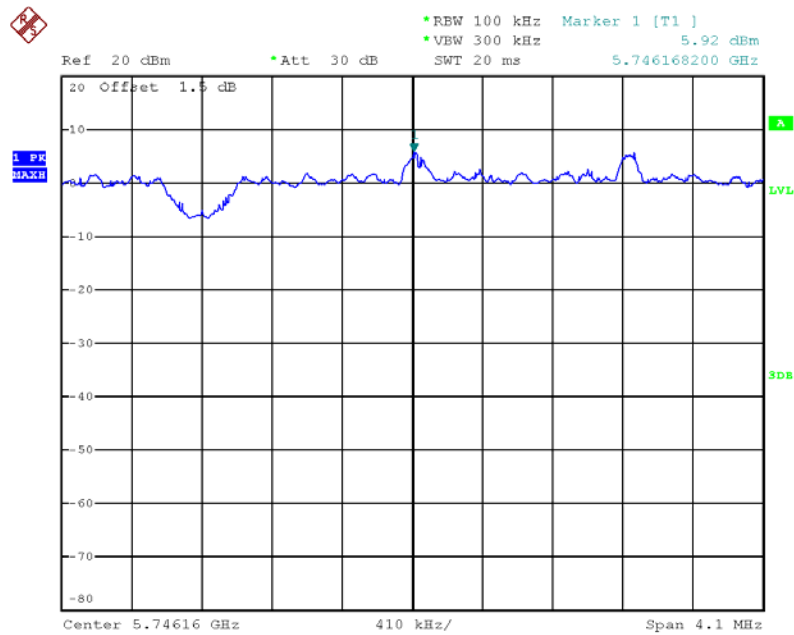
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5745 MHz / Mode 1



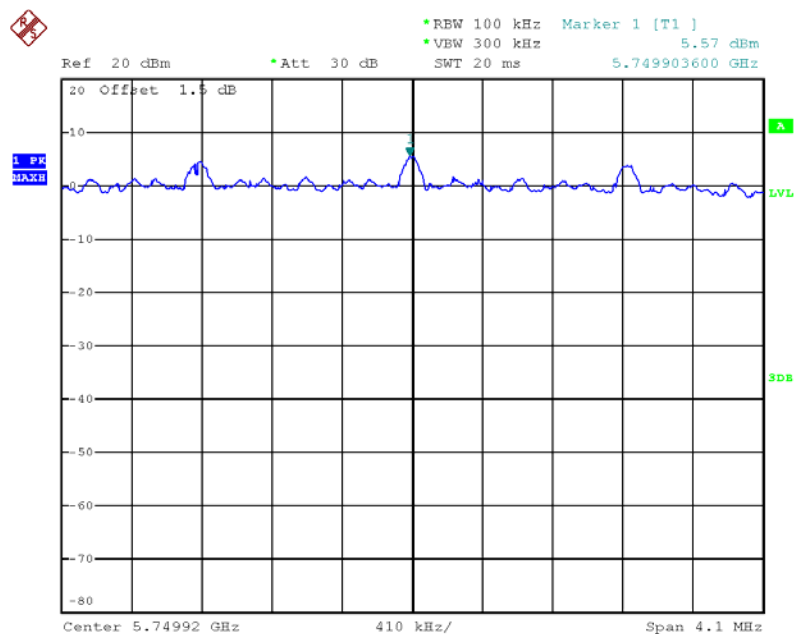
Date: 21.JUL.2012 13:29:09

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 1



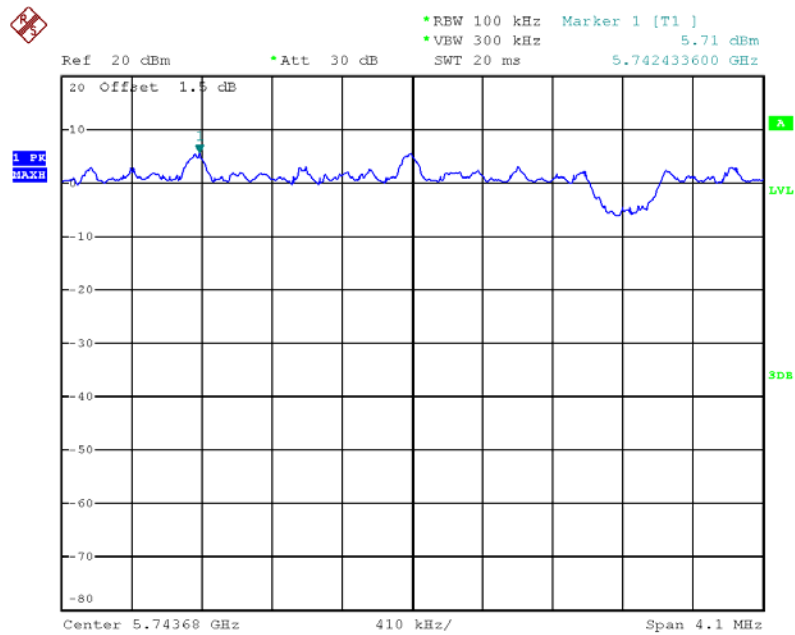
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5745 MHz / Mode 1



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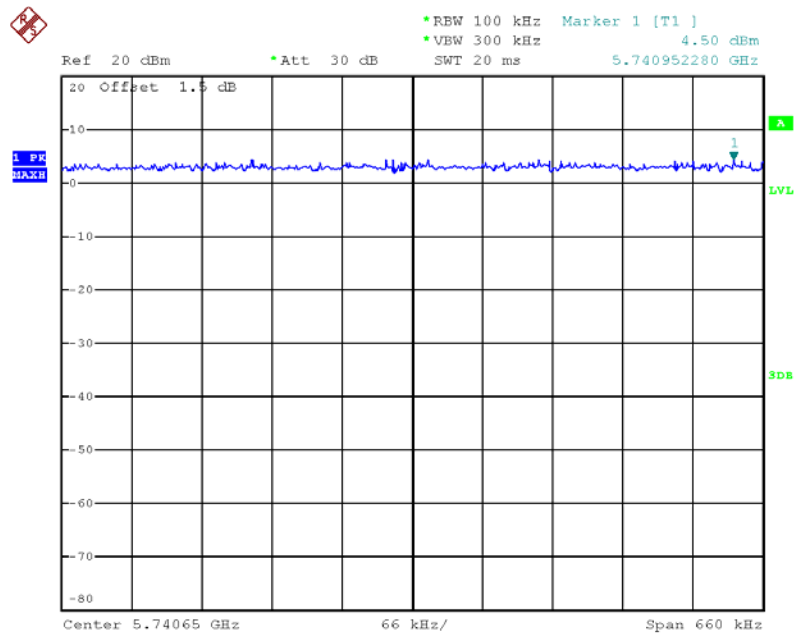
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5745 MHz / Mode 1



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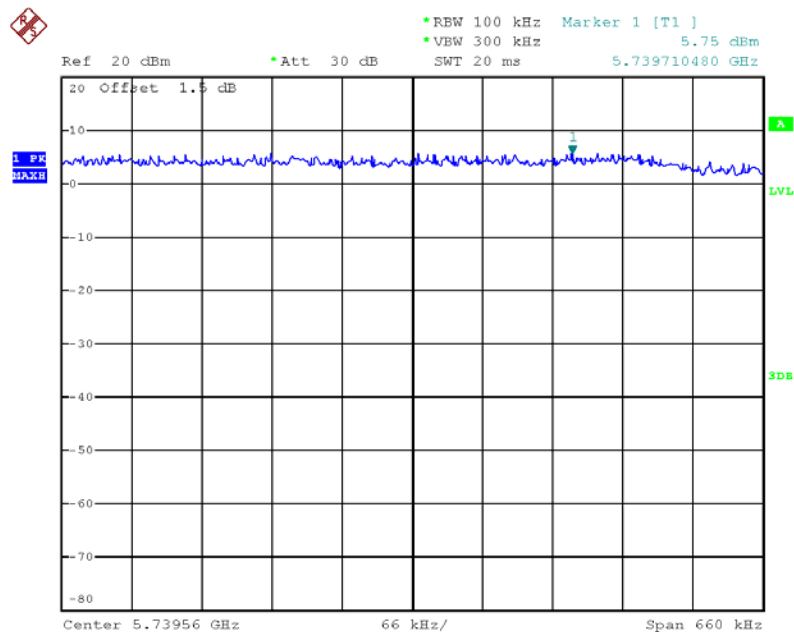
For P to M

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5740 MHz / Mode 2



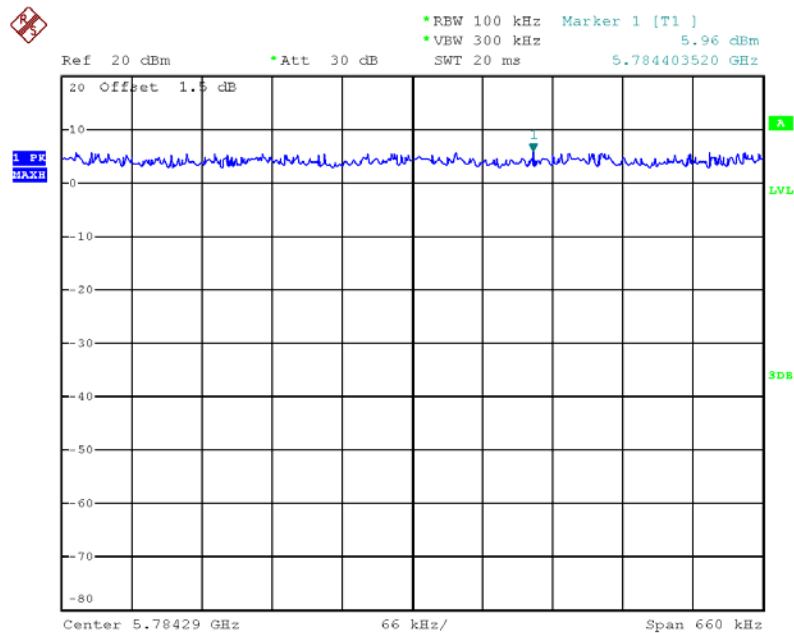
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 2



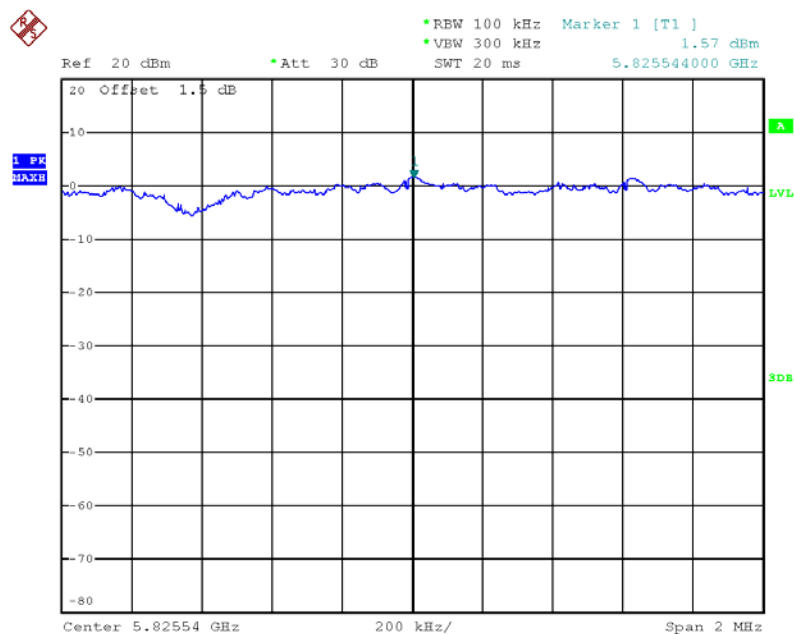
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 2



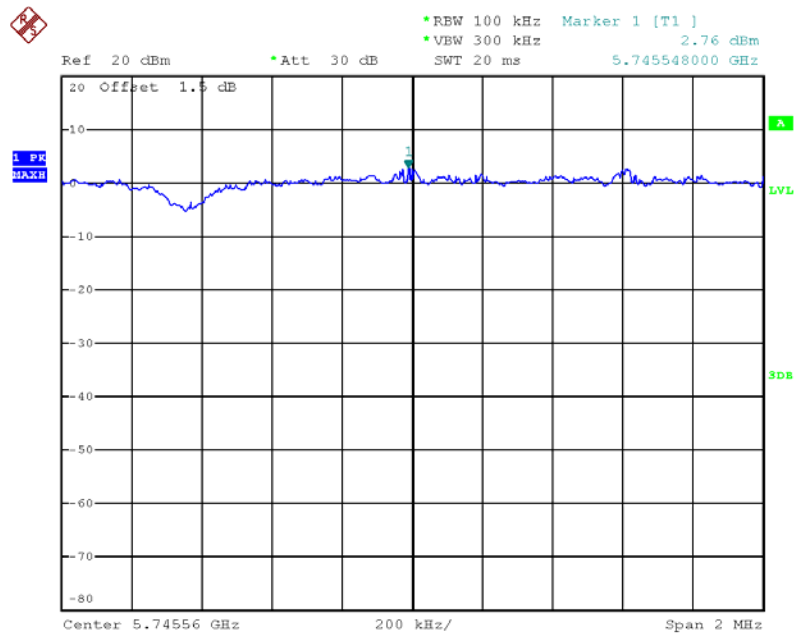
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5825 MHz / Mode 2



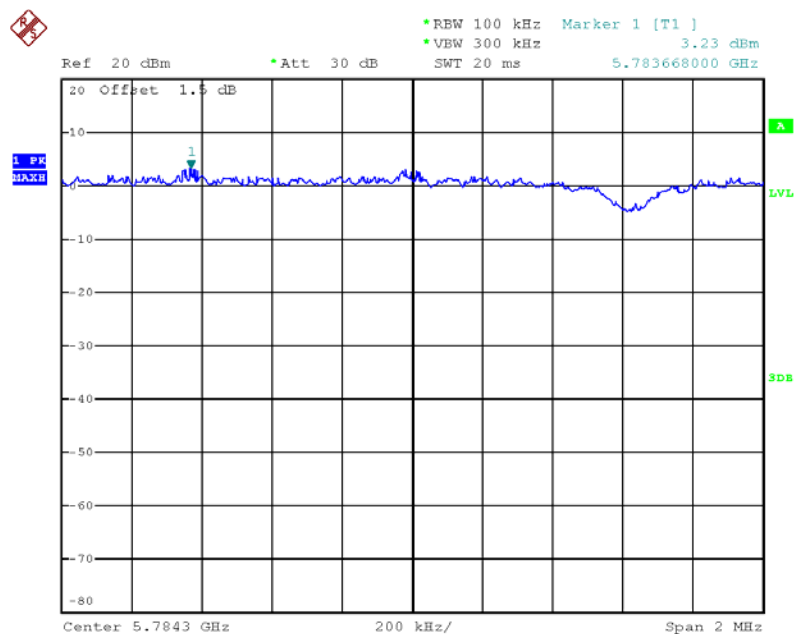
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 2



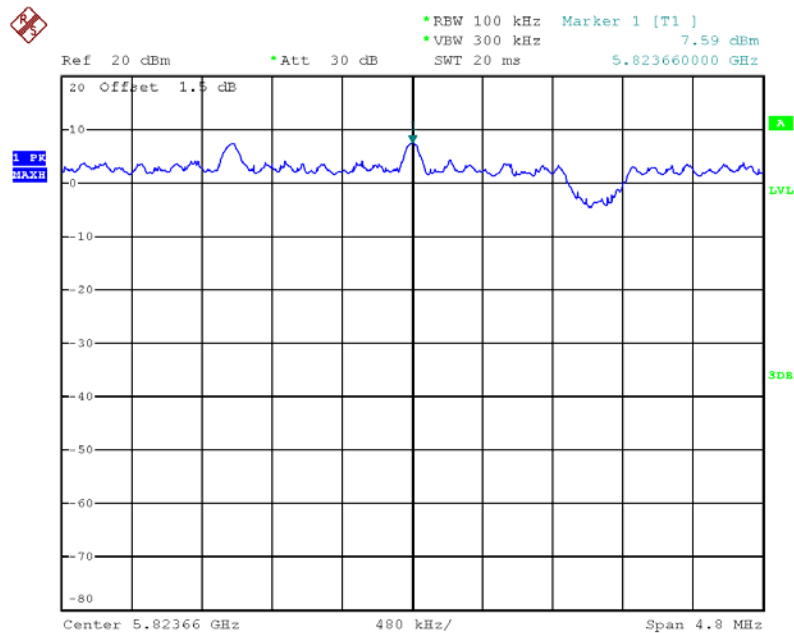
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5785 MHz / Mode 2



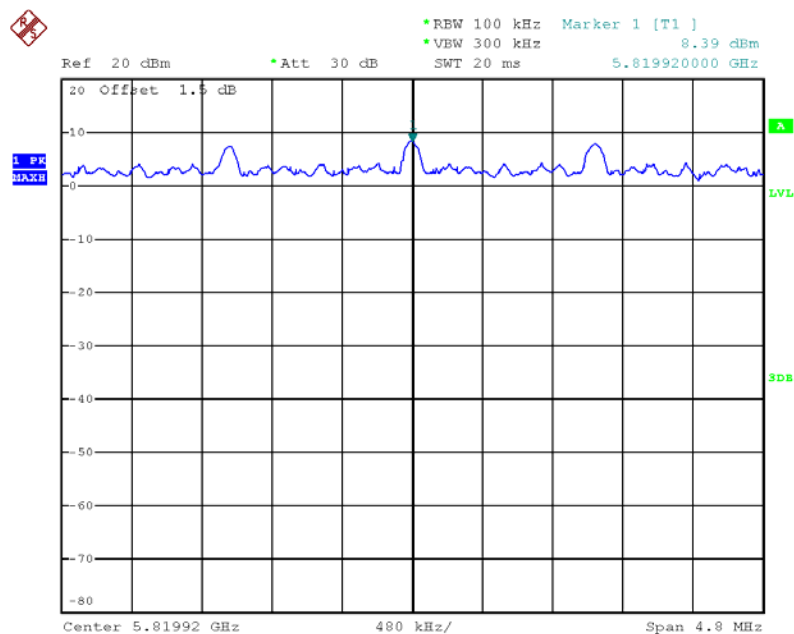
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5825 MHz / Mode 2



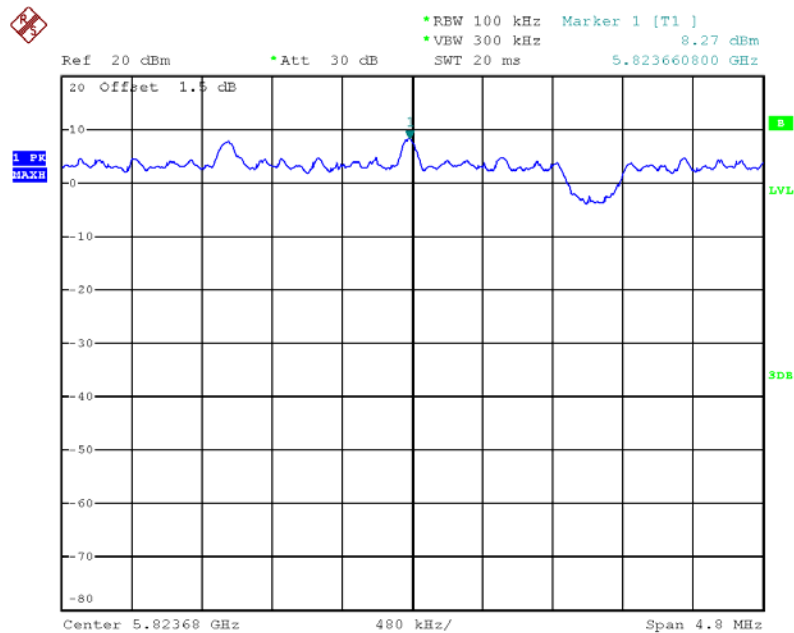
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5825 MHz / Mode 2



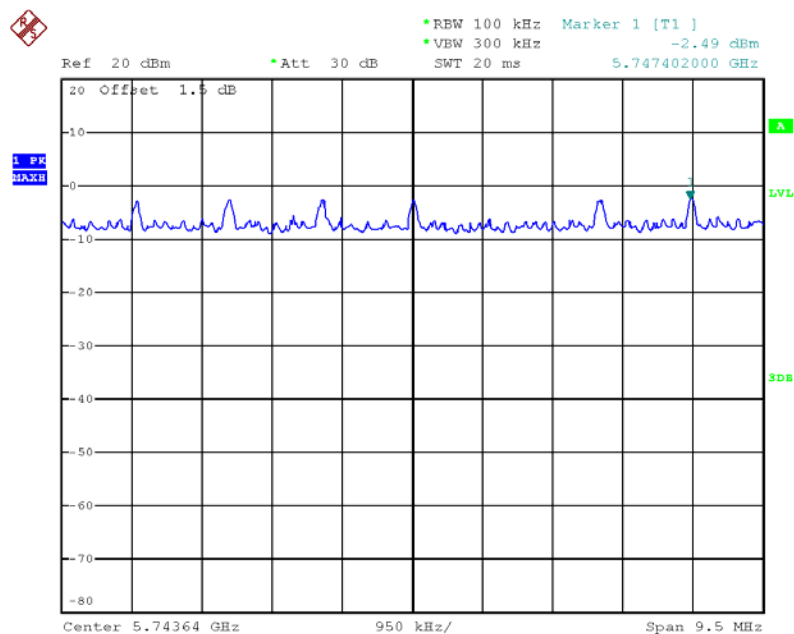
Date: 21.JUL.2012 08:35:44

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5825 MHz / Mode 2



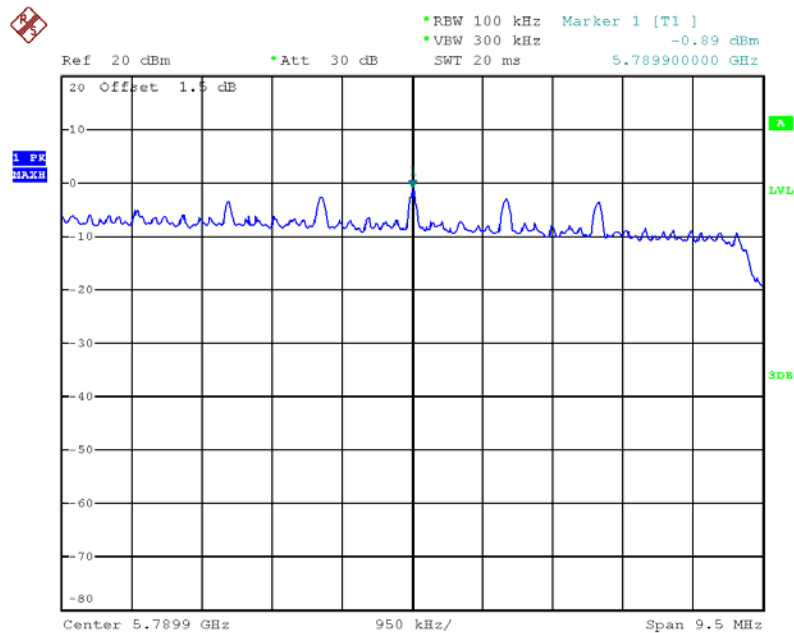
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz / Mode 2



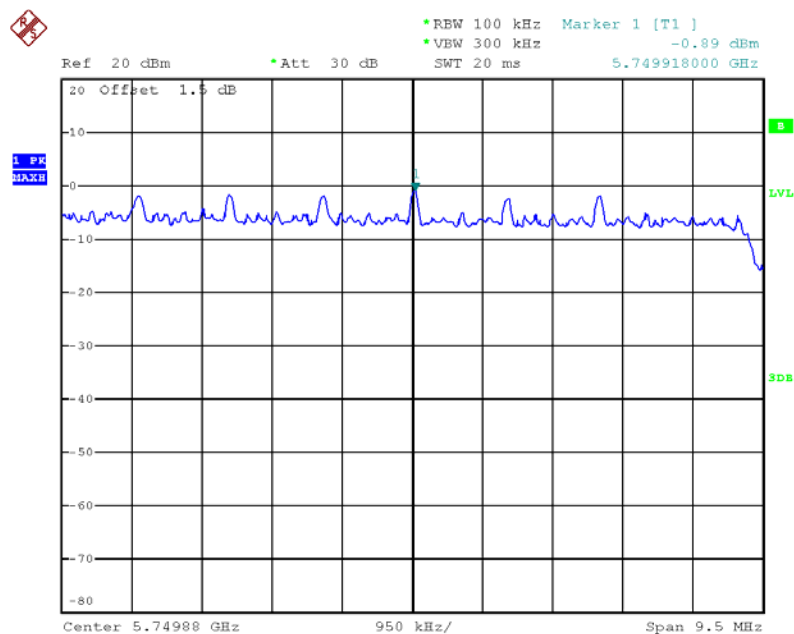
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 2



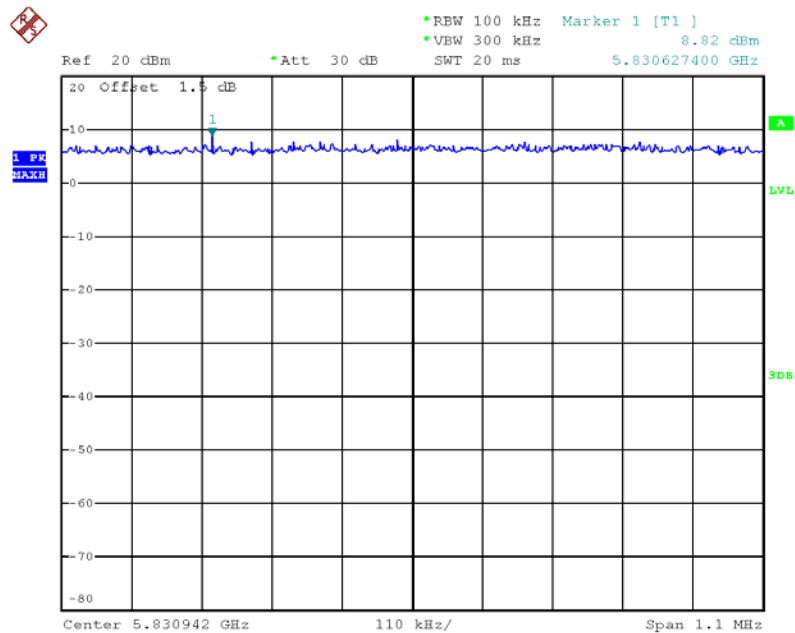
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 2



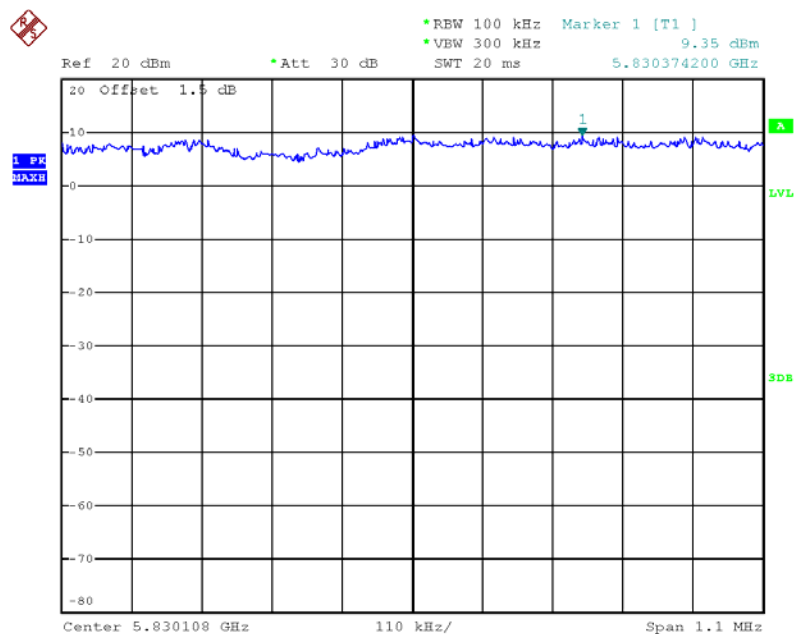
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5830 MHz / Mode 2



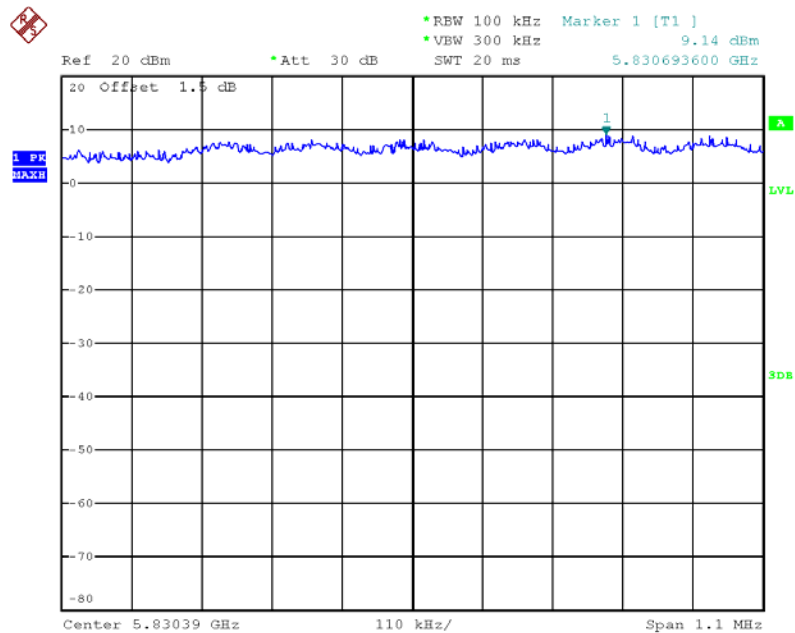
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 5830 MHz / Mode 2



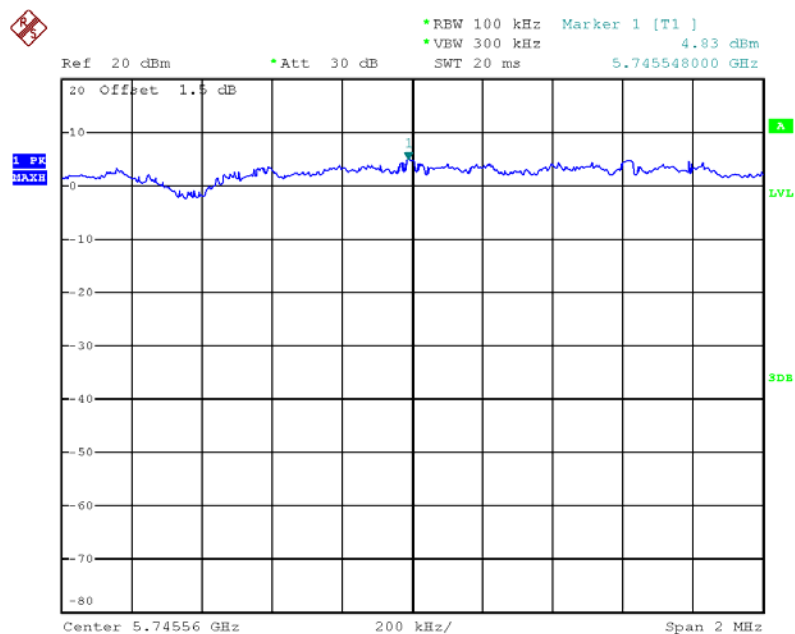
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5830 MHz / Mode 2



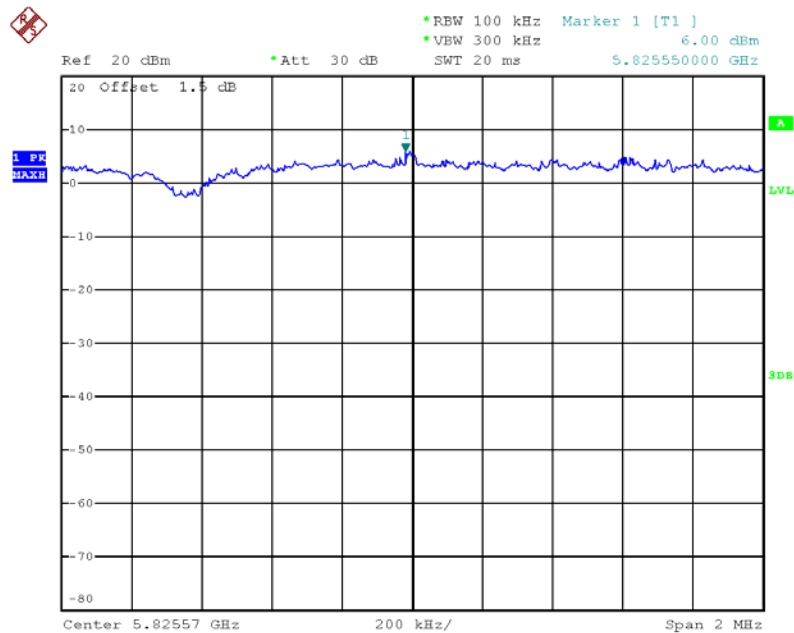
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 2



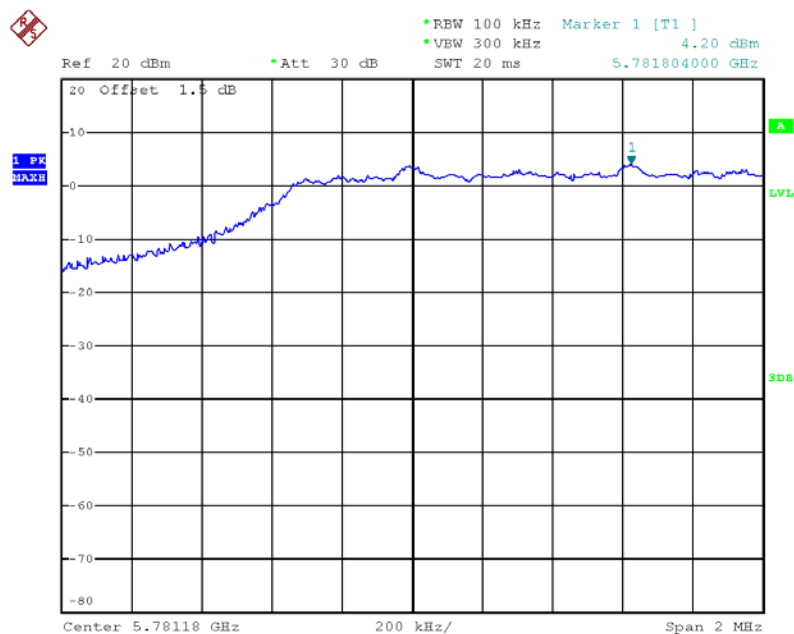
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5825 MHz / Mode 2



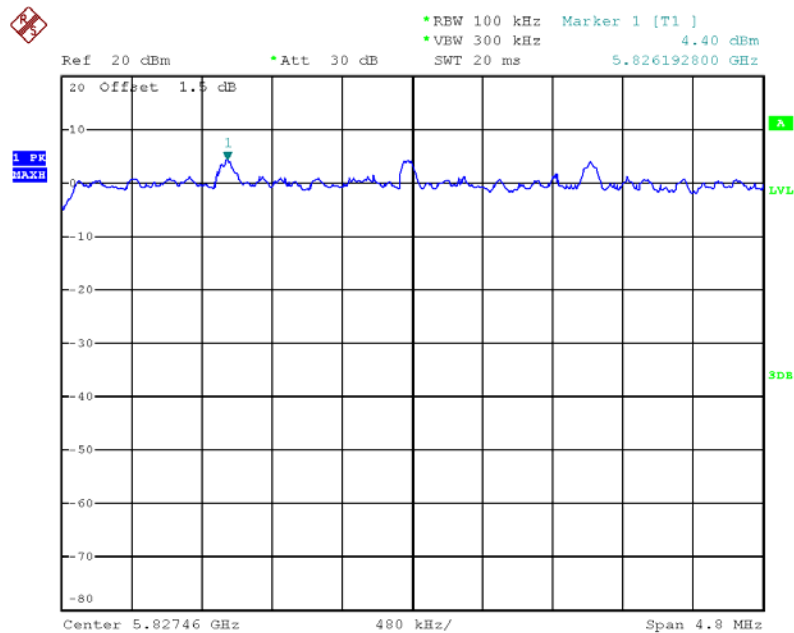
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5785 MHz / Mode 2



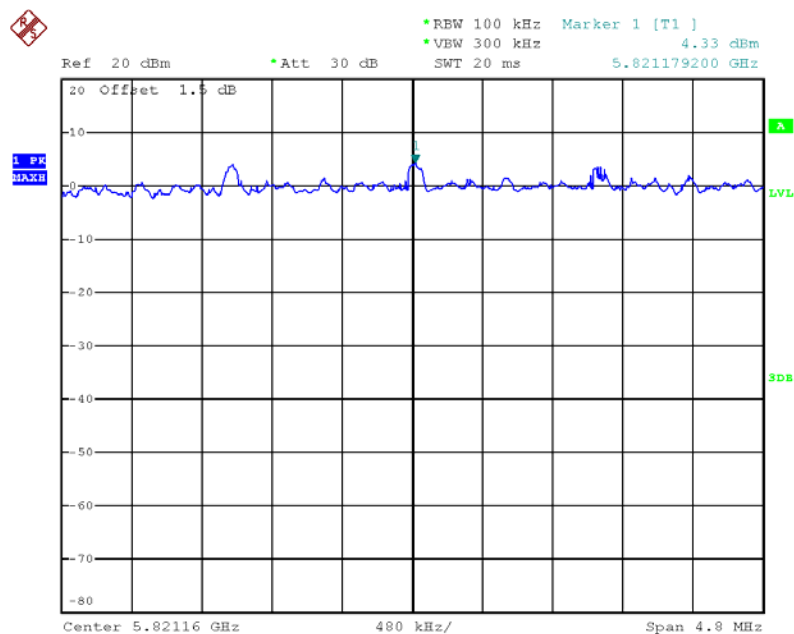
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5825 MHz / Mode 2



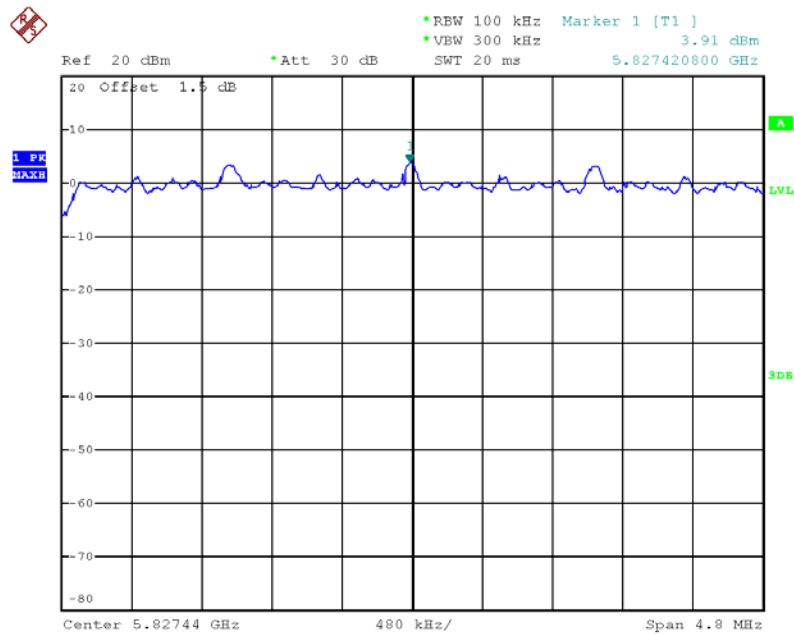
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5825 MHz / Mode 2



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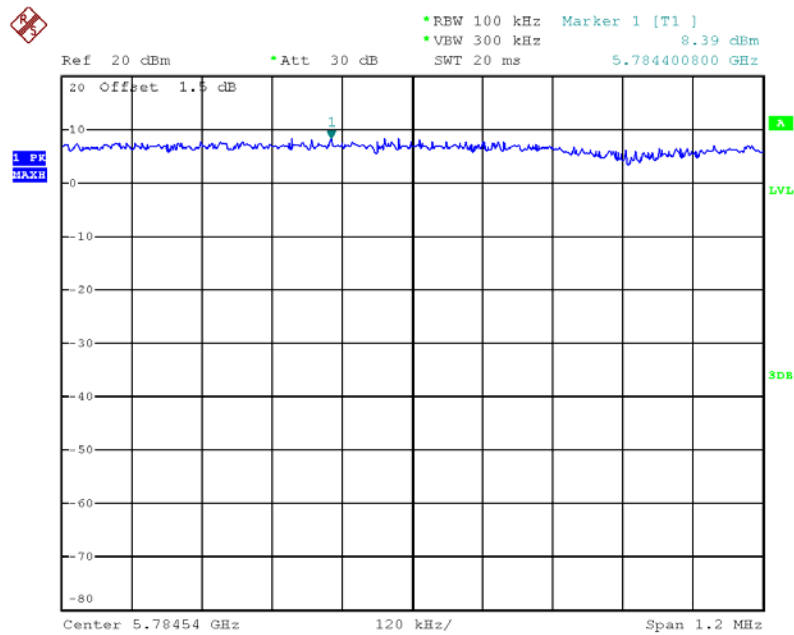
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5825 MHz / Mode 2



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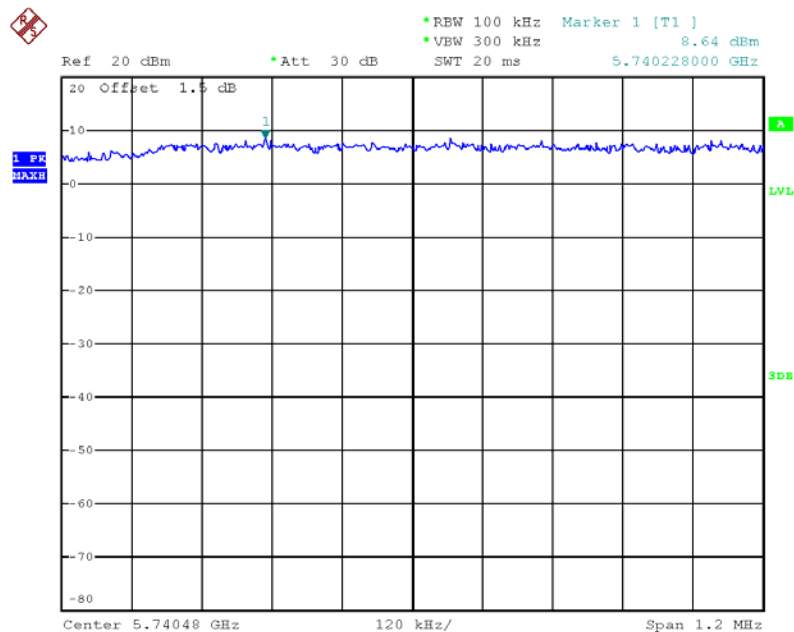
For P to P

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5785 MHz / Mode 2



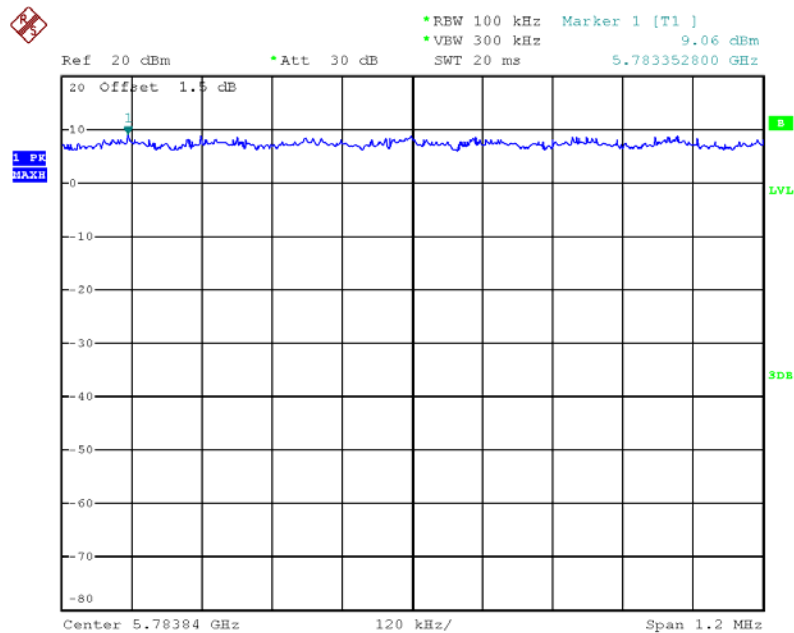
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 2



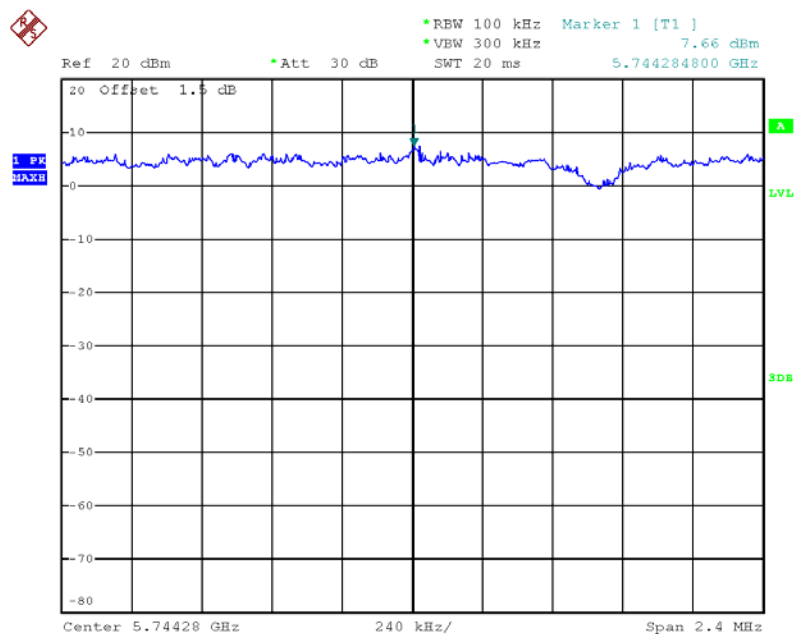
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 2



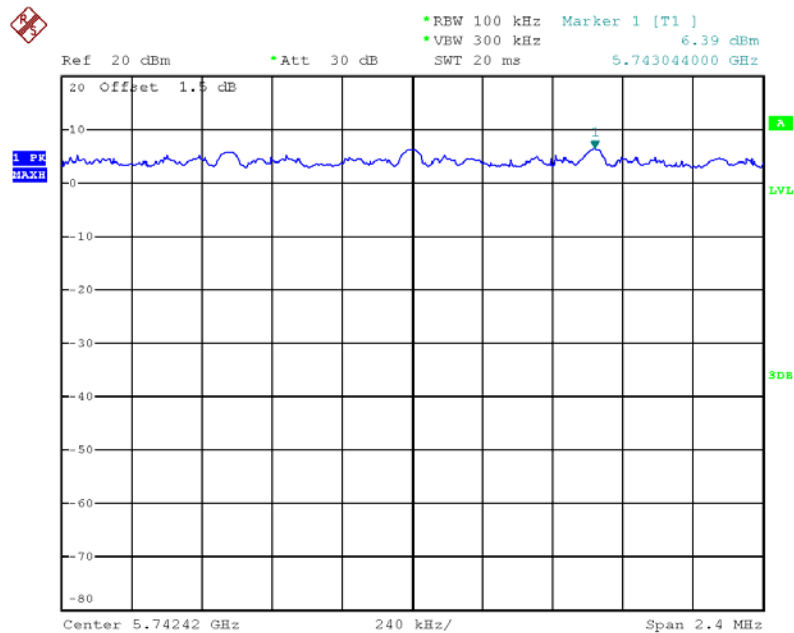
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 2



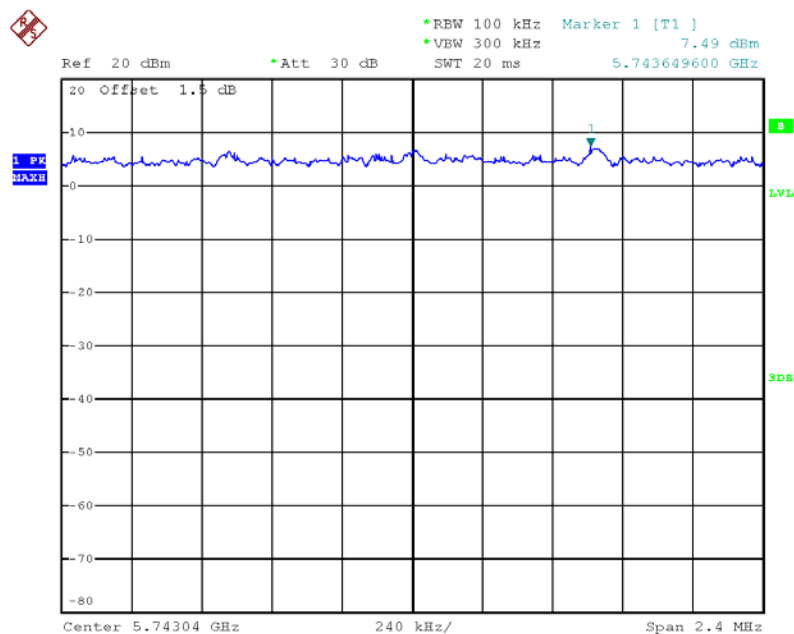
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 2



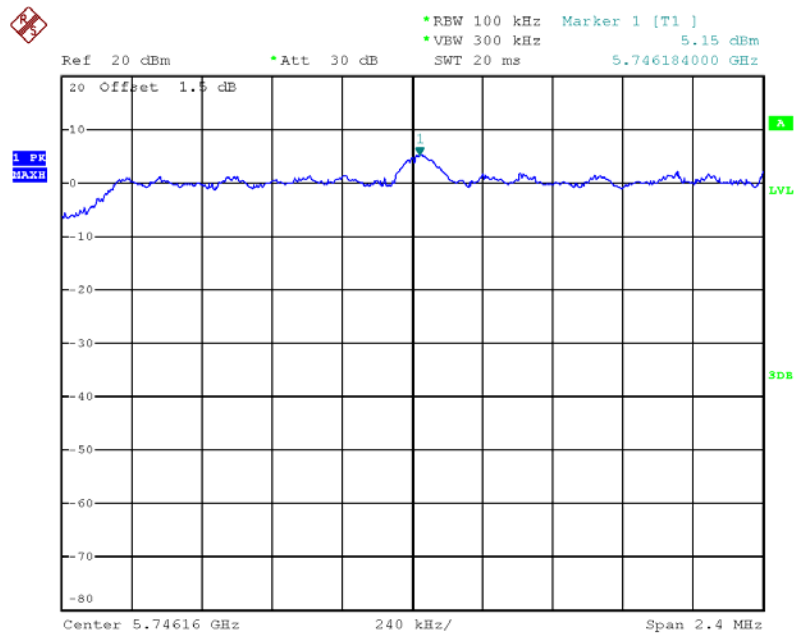
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5745 MHz / Mode 2



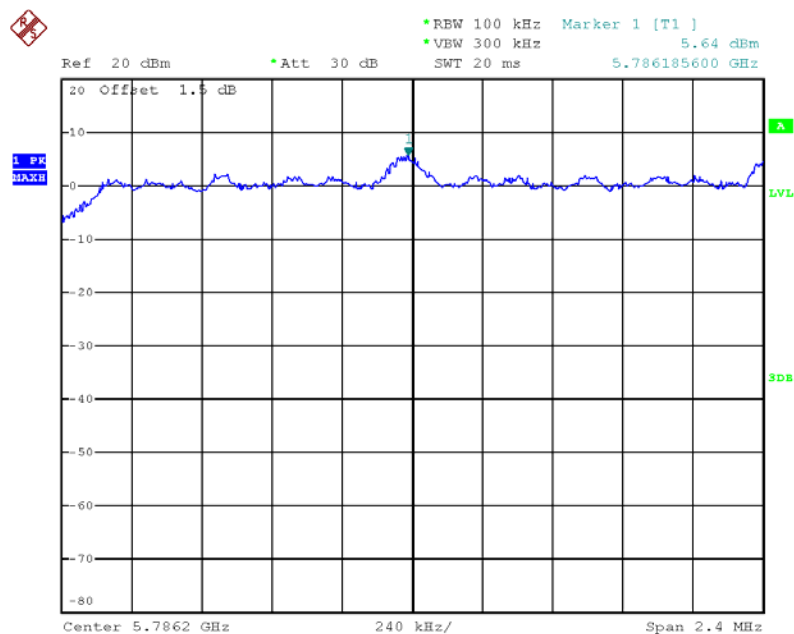
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 2



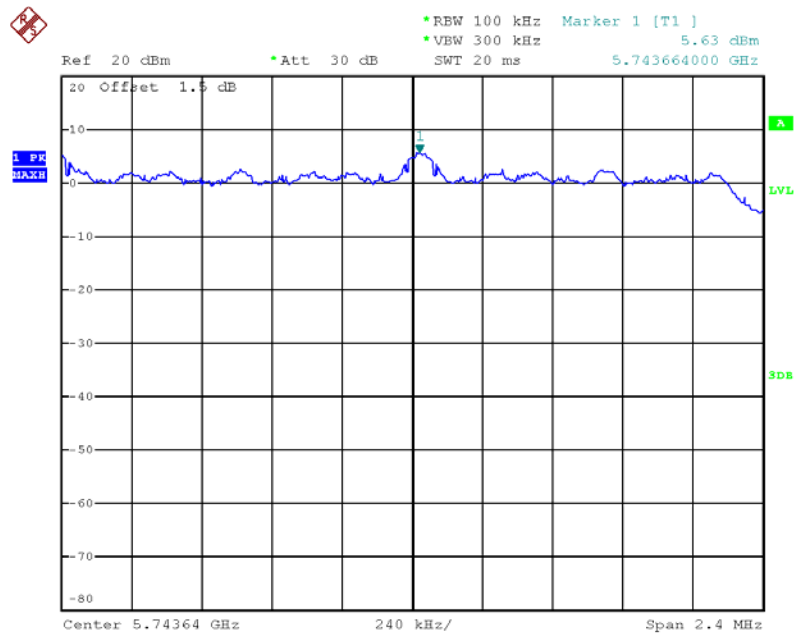
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 2



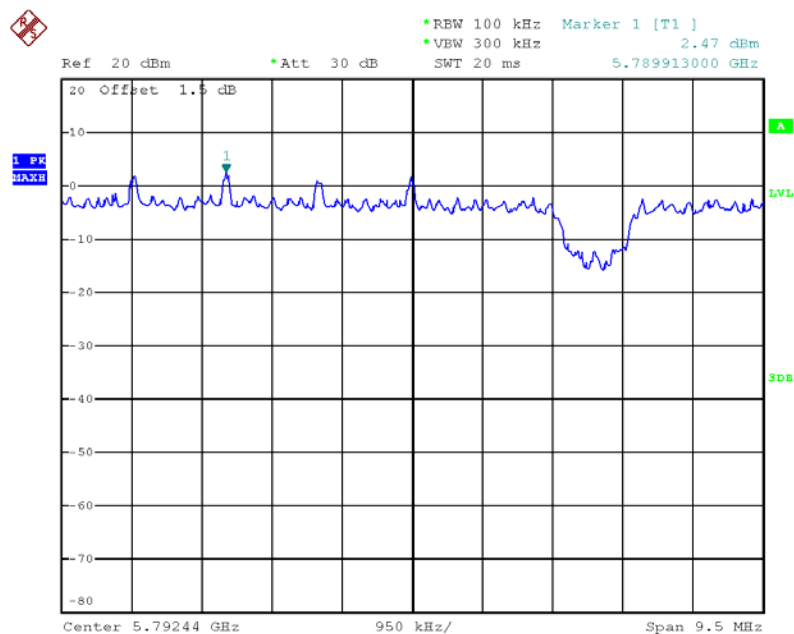
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 2



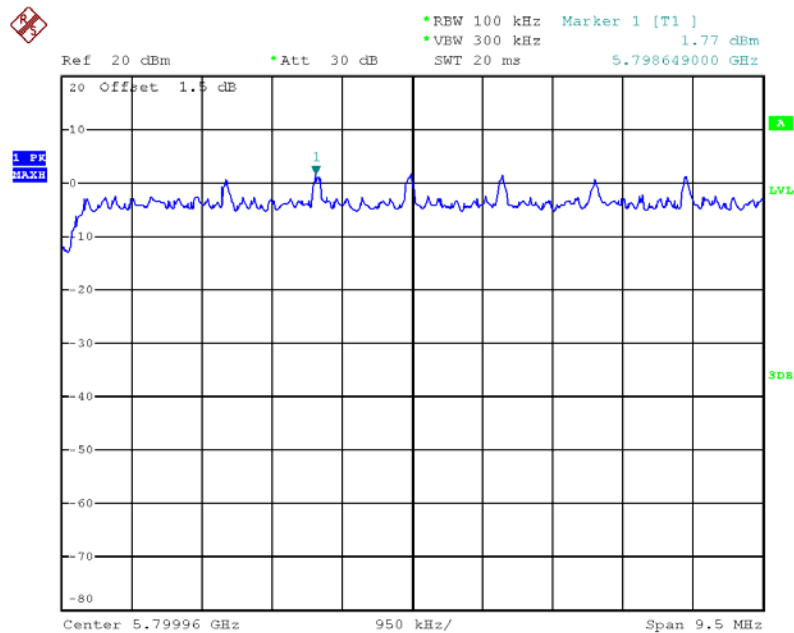
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 2



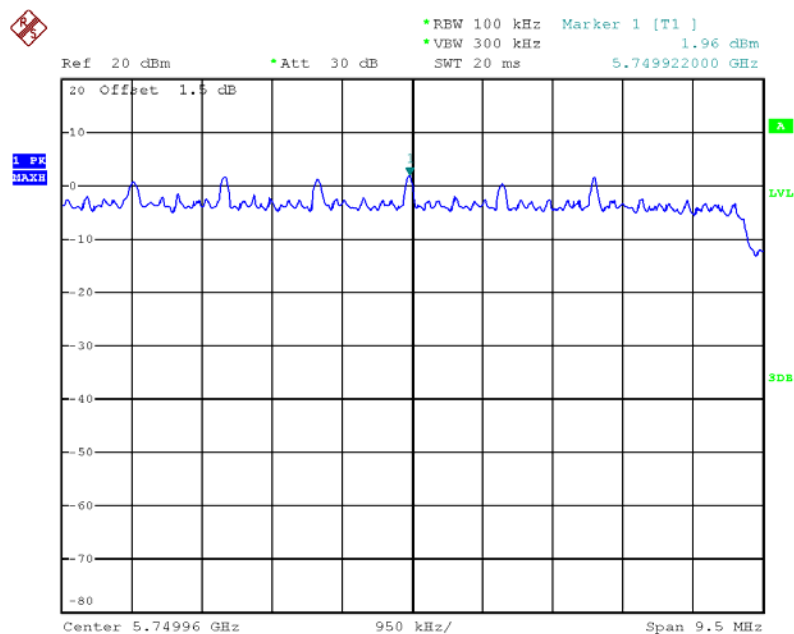
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 2



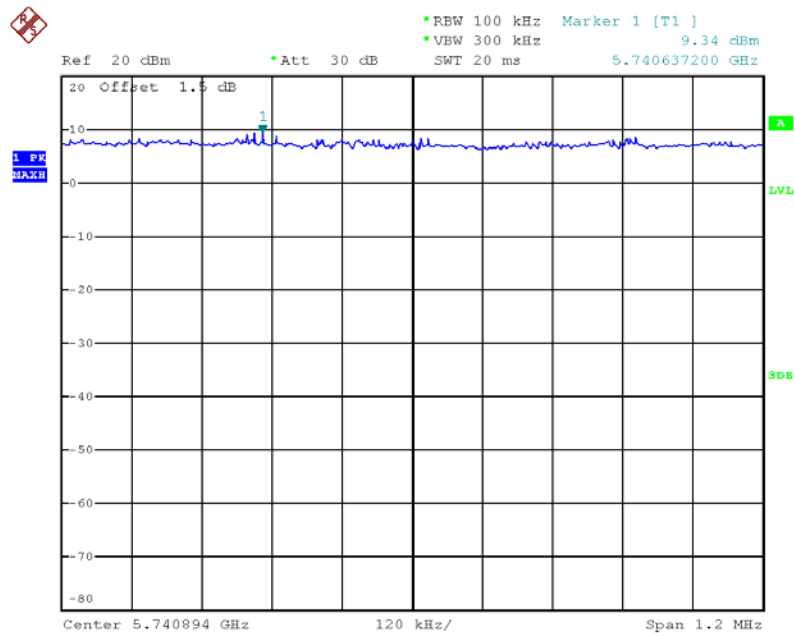
Date: 22.JUL.2012 11:08:56

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 2



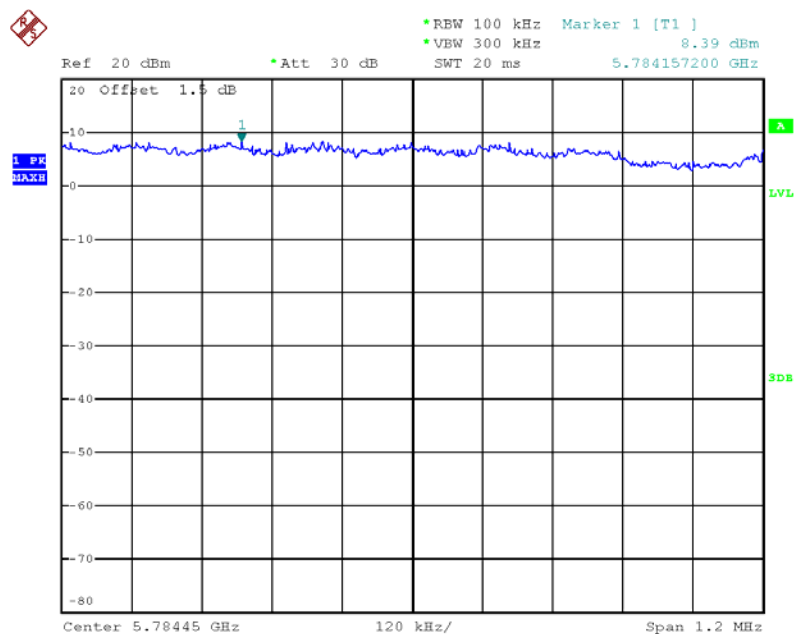
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 2



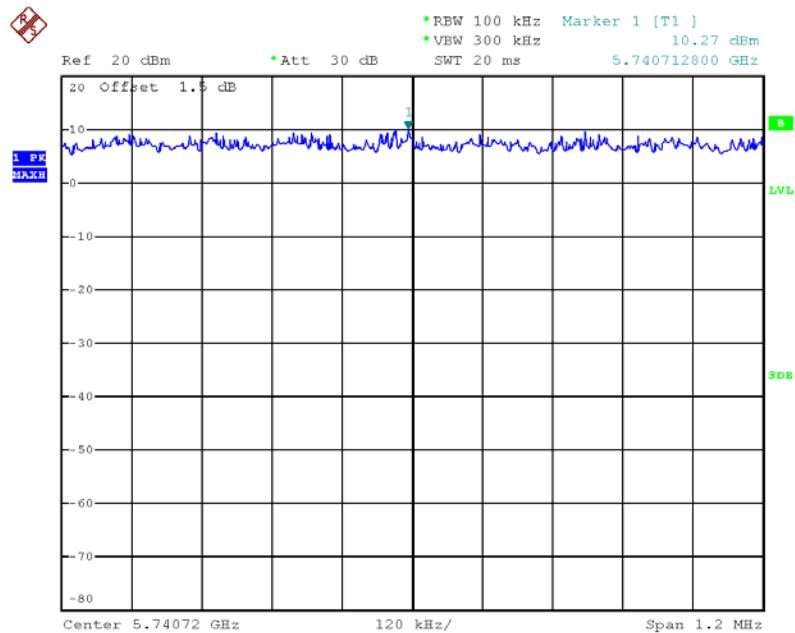
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 57850 MHz / Mode 2



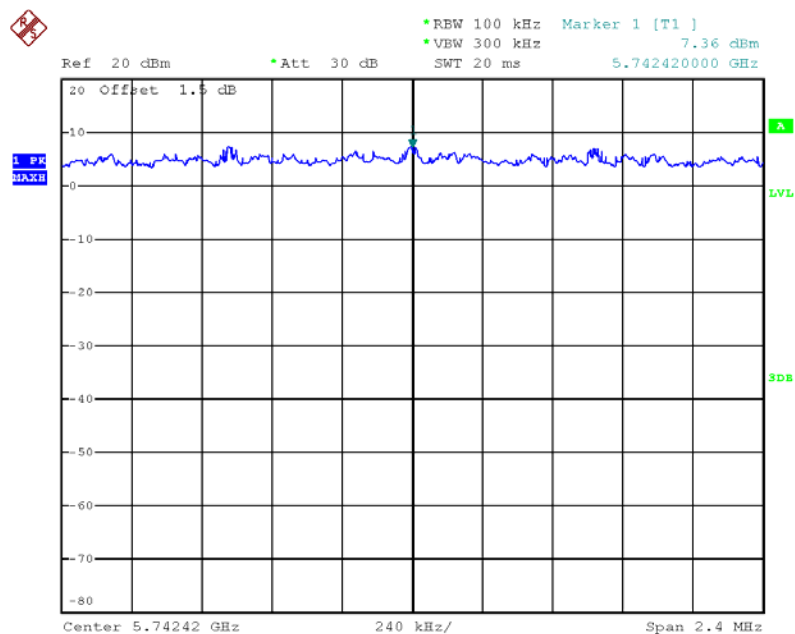
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5740 MHz / Mode 2



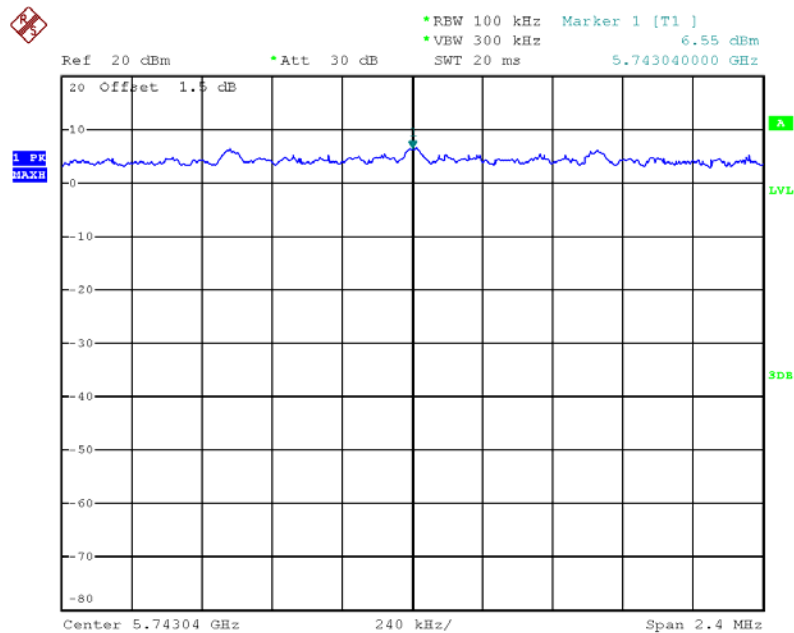
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 2



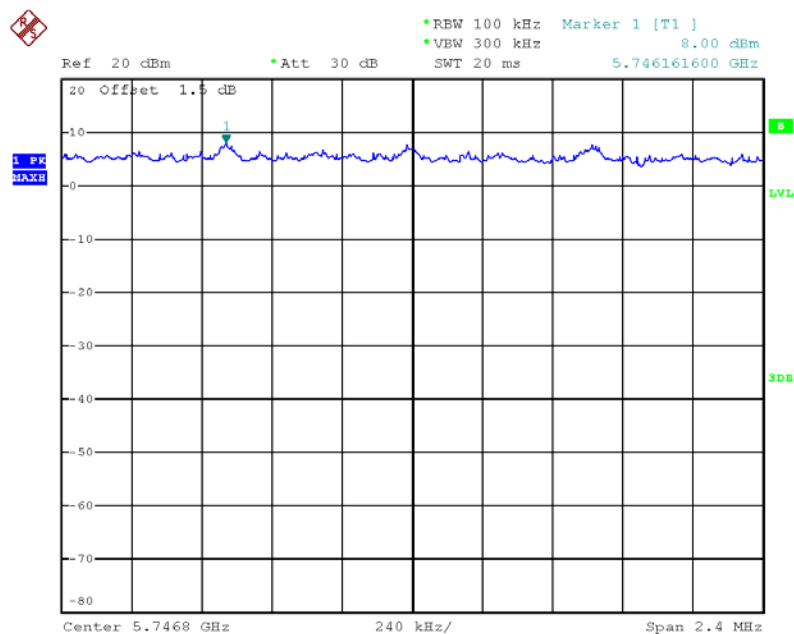
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5745 MHz / Mode 2



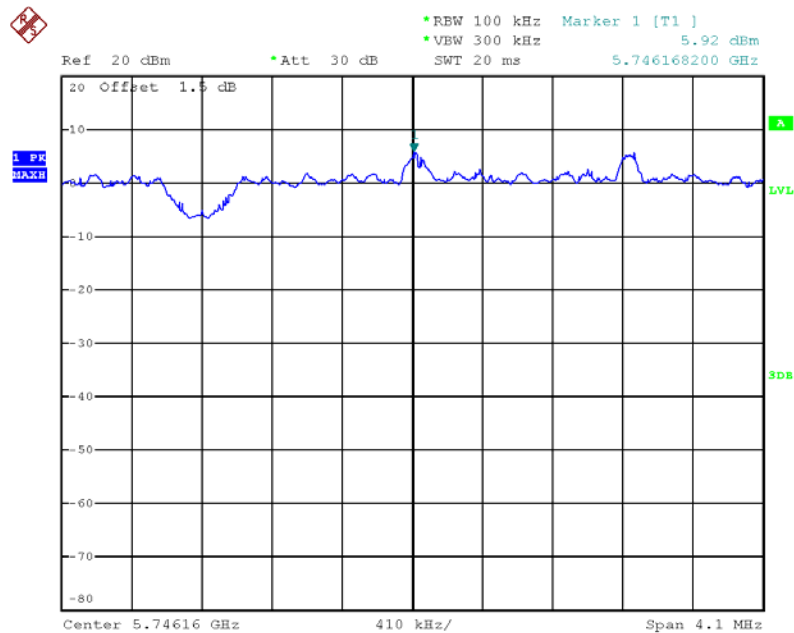
Date: 21.JUL.2012 09:55:34

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5745 MHz / Mode 2



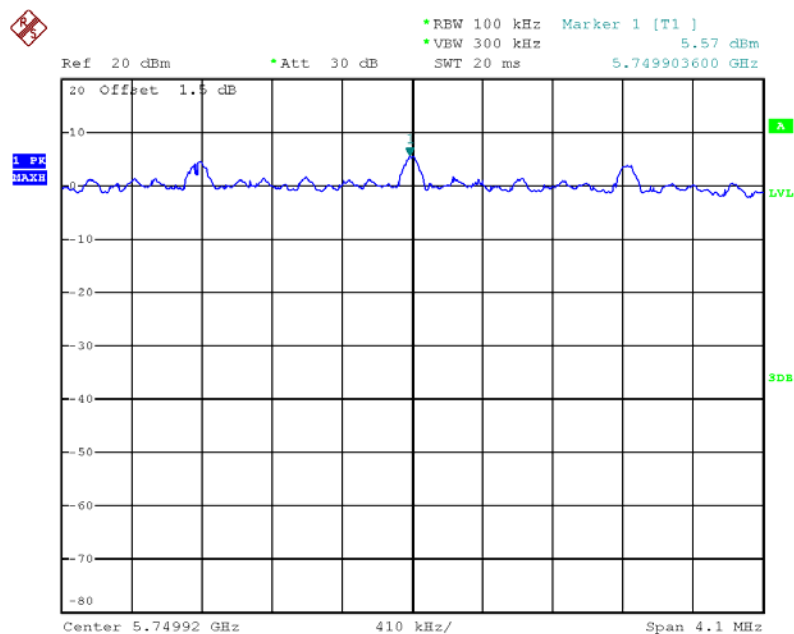
Date: 21.JUL.2012 13:29:09

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 2



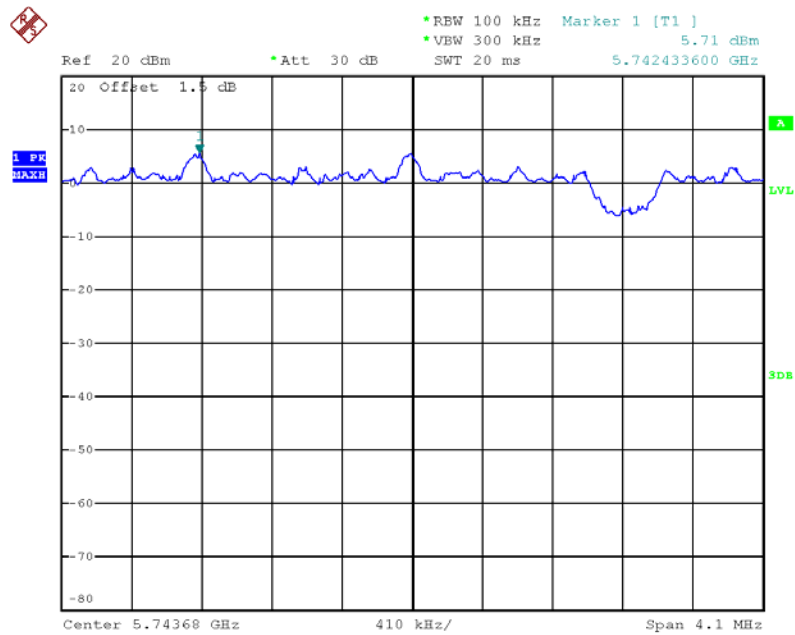
Date: 22.JUL.2012 10:58:39

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5745 MHz / Mode 2



Date: 22.JUL.2012 10:57:50

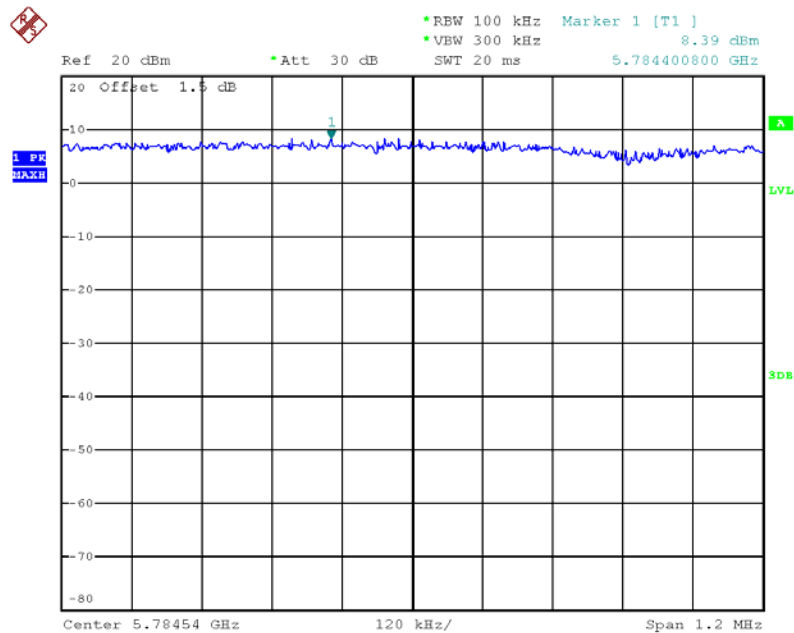
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5745 MHz / Mode 2



Date: 22.JUL.2012 10:56:54

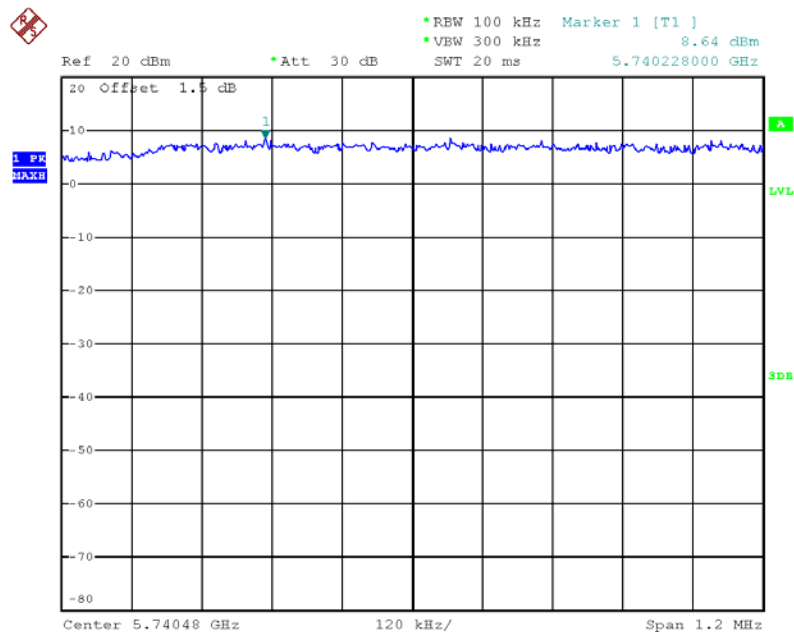
For P to M

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5785 MHz / Mode 3



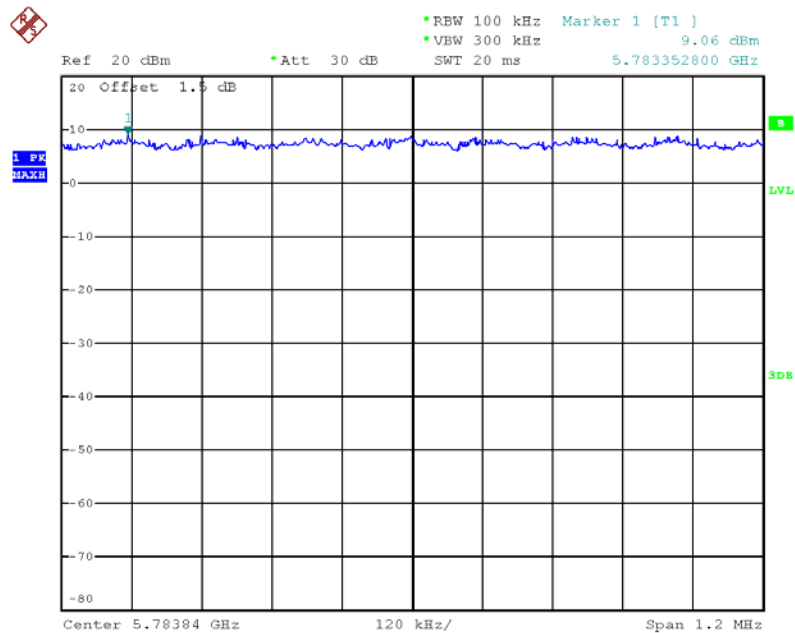
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 3



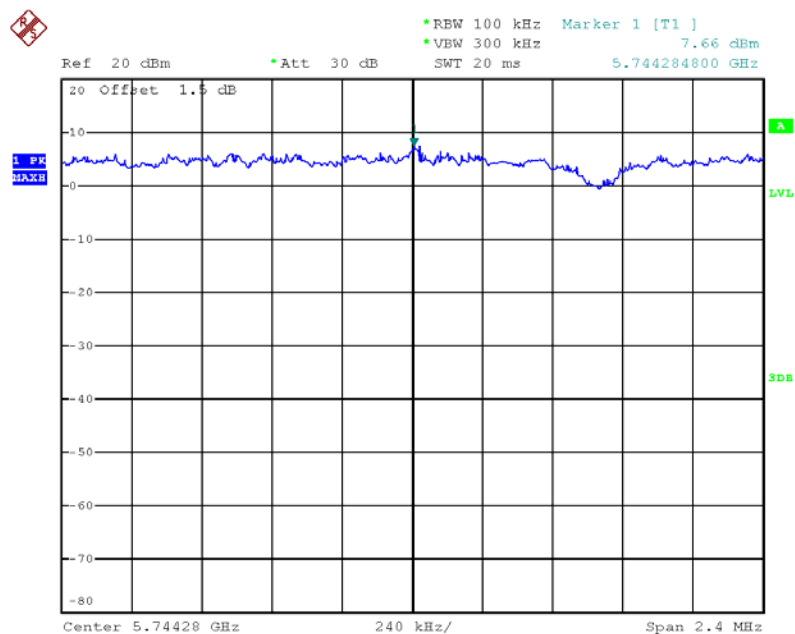
Date: 21.JUL.2012 09:28:44

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 3



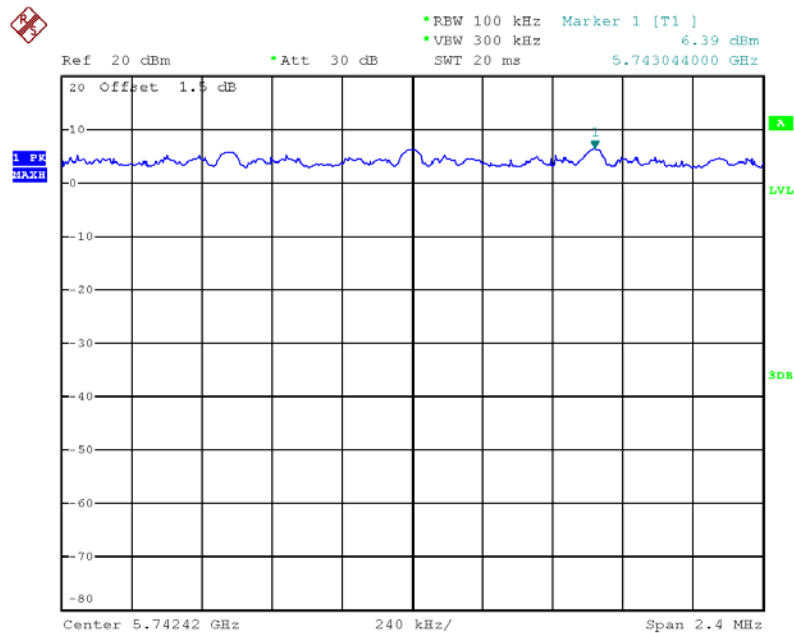
Date: 21.JUL.2012 13:36:32

Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 3



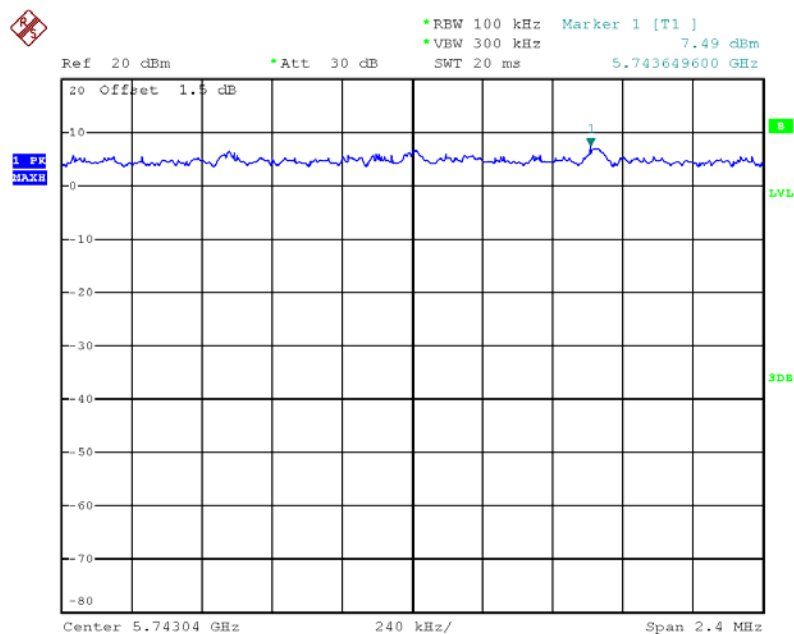
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 3



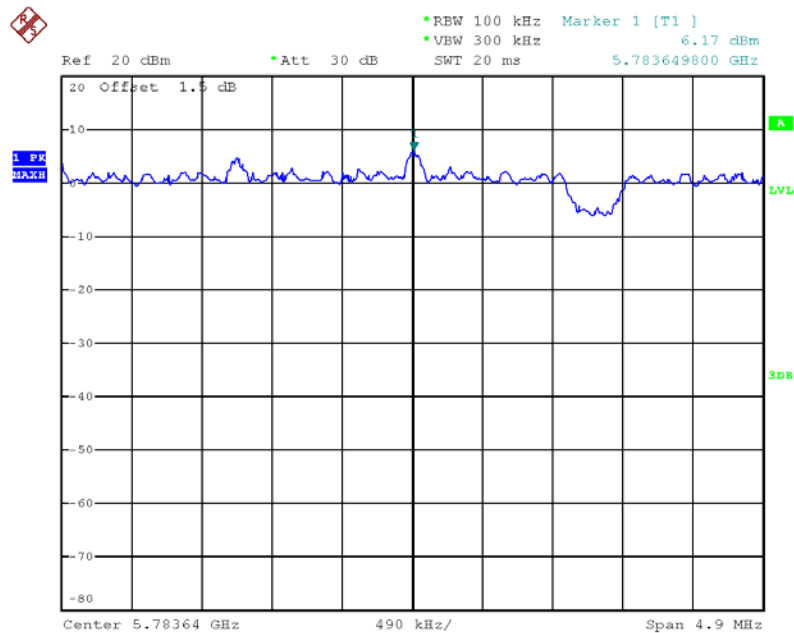
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5745 MHz / Mode 3



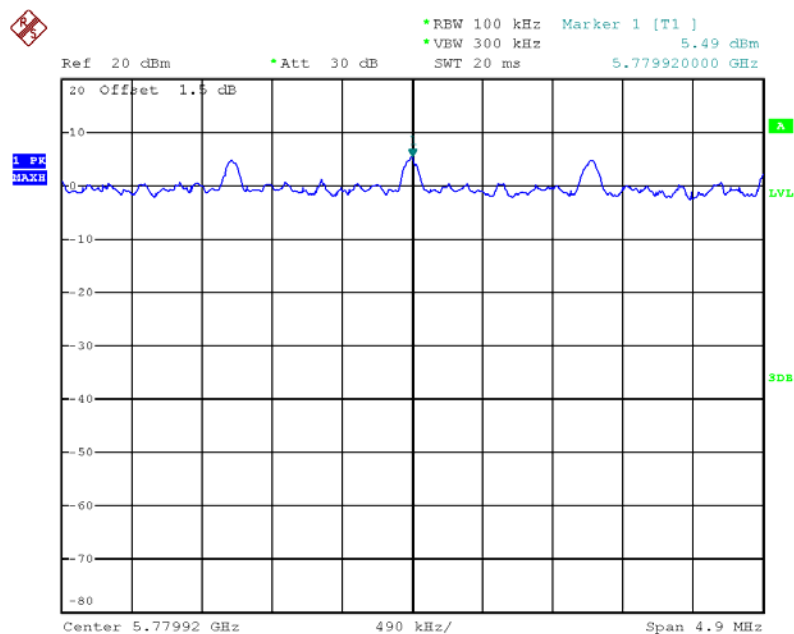
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785MHz / Mode 3



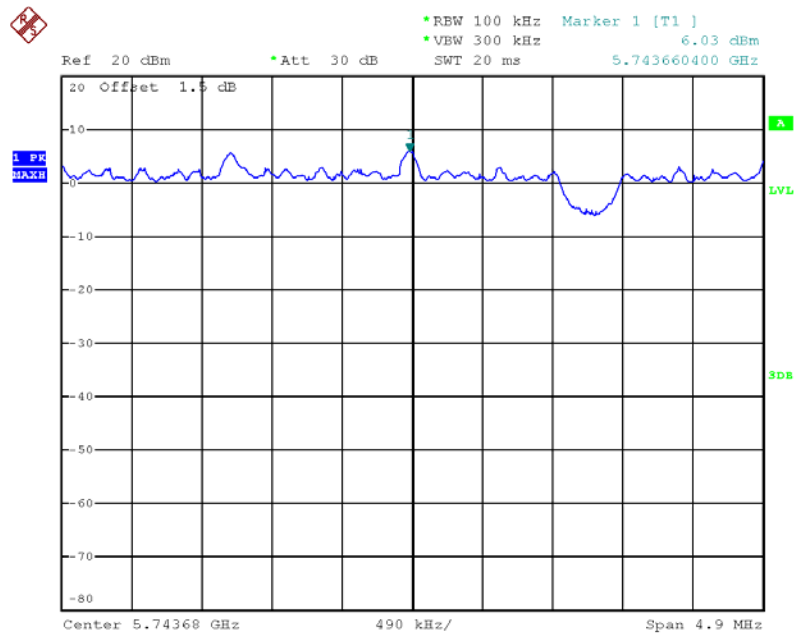
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 3



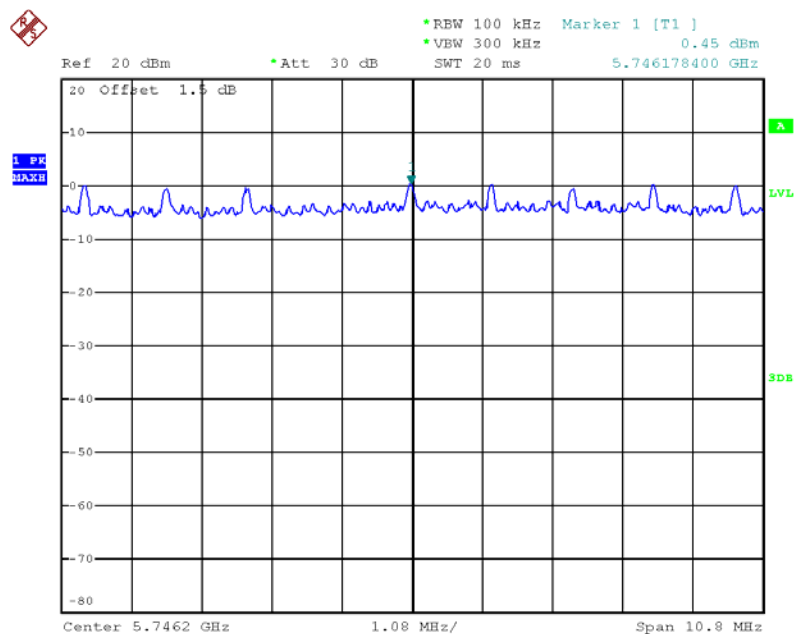
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 3



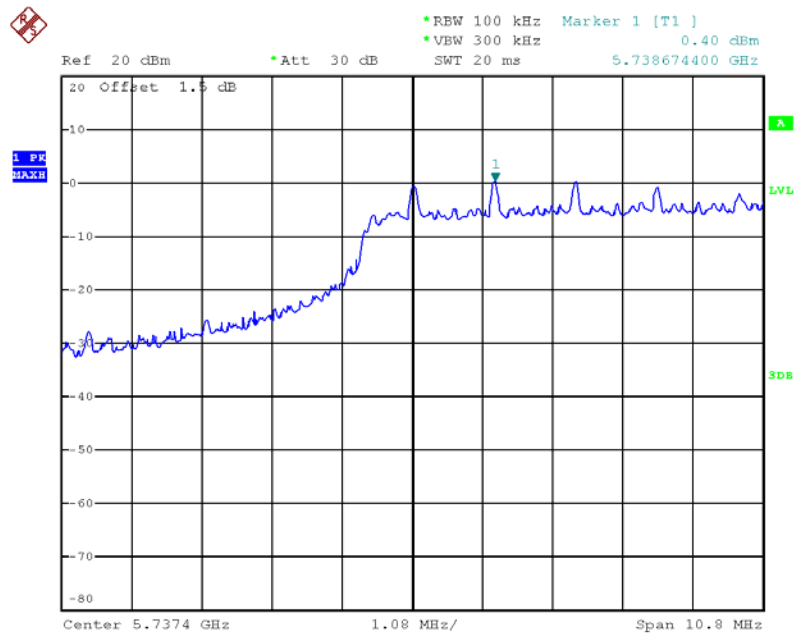
Date: 20.JUL.2012 15:01:22

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz / Mode 3



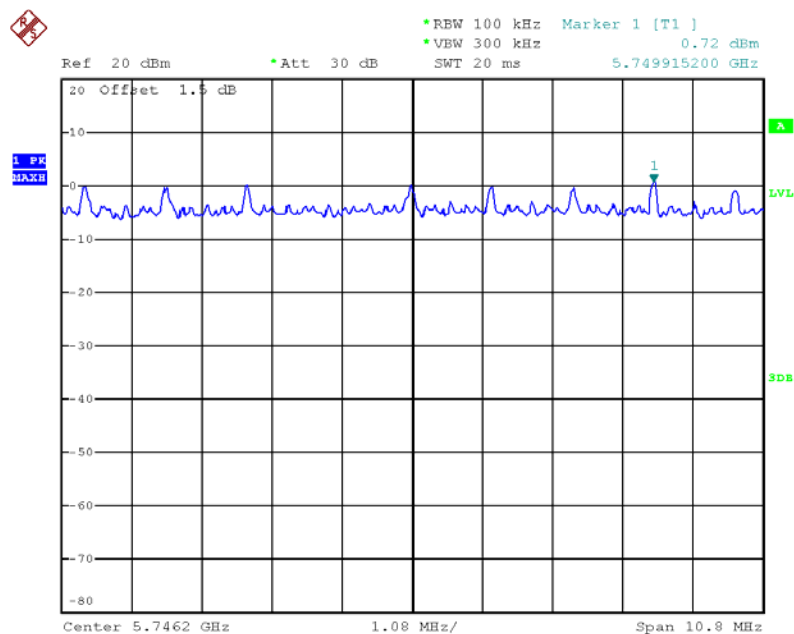
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5755 MHz / Mode 3



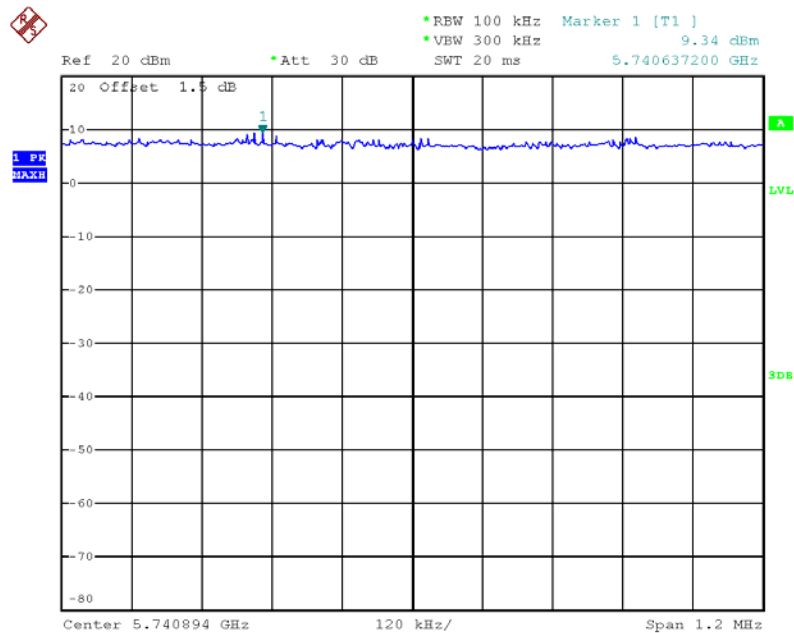
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 3



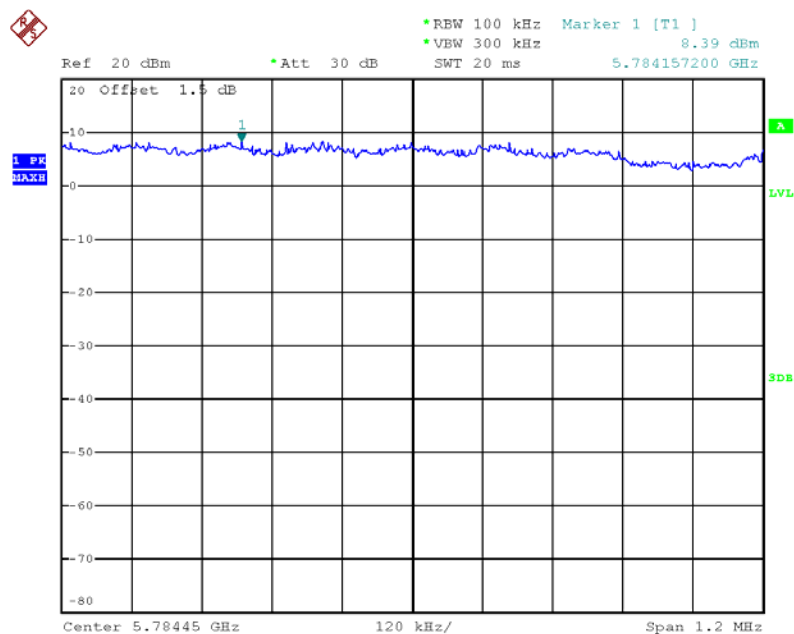
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 3



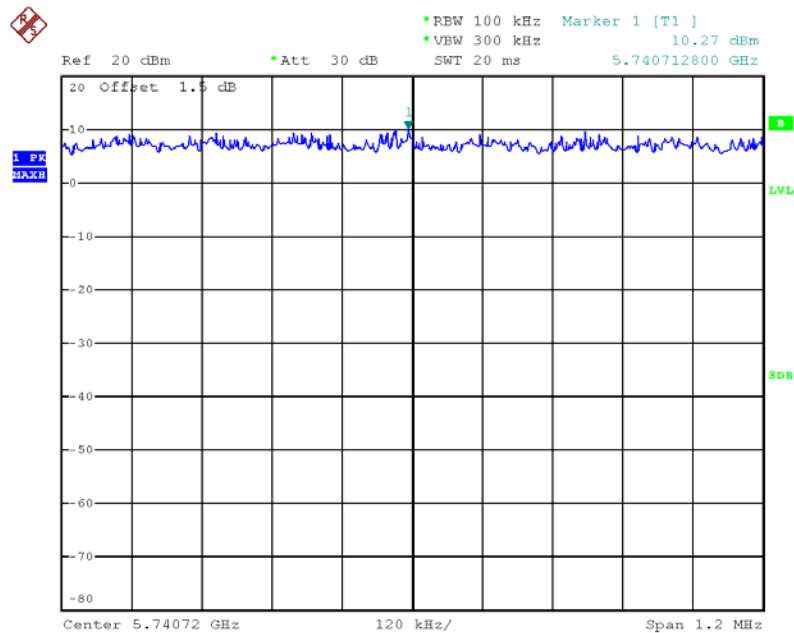
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 5785 MHz / Mode 3



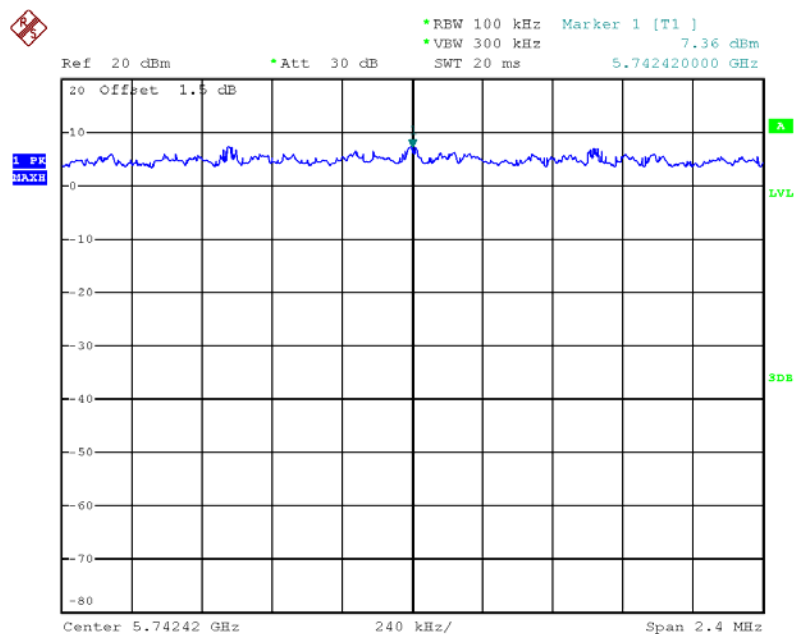
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5740 MHz / Mode 3



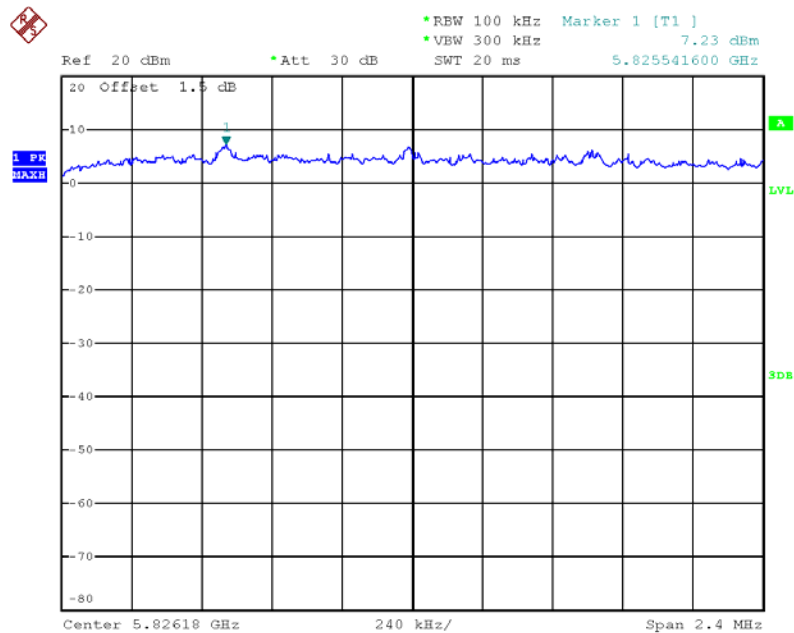
Date: 21.JUL.2012 13:42:26

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 3



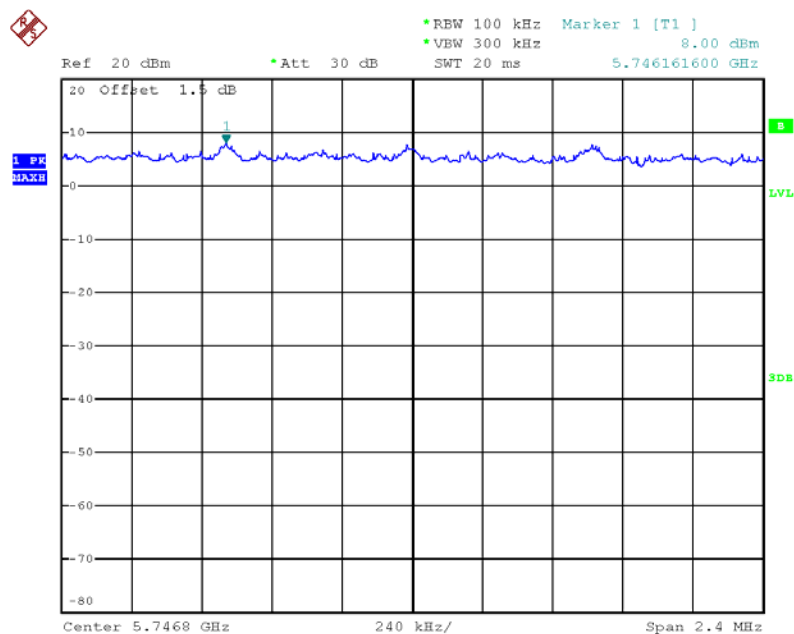
Date: 21.JUL.2012 09:56:38

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5825 MHz / Mode 3



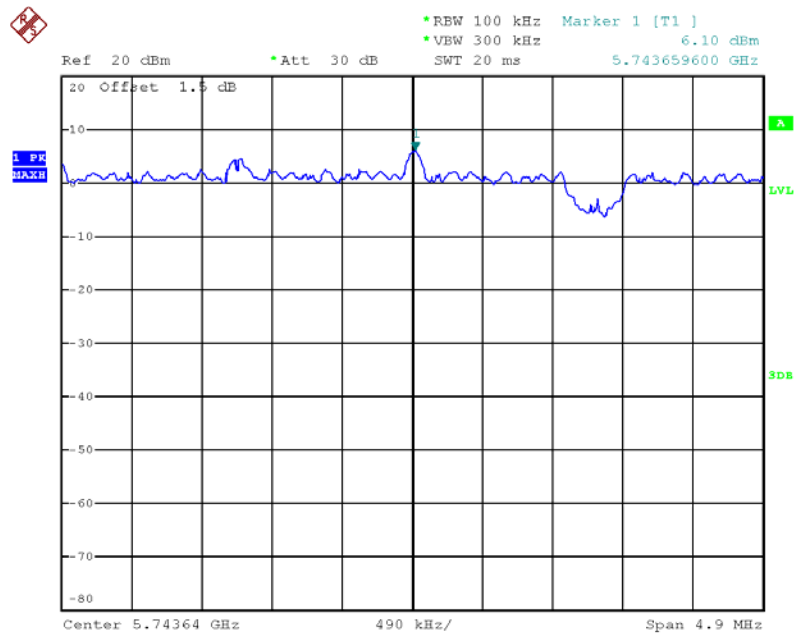
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5745 MHz / Mode 3



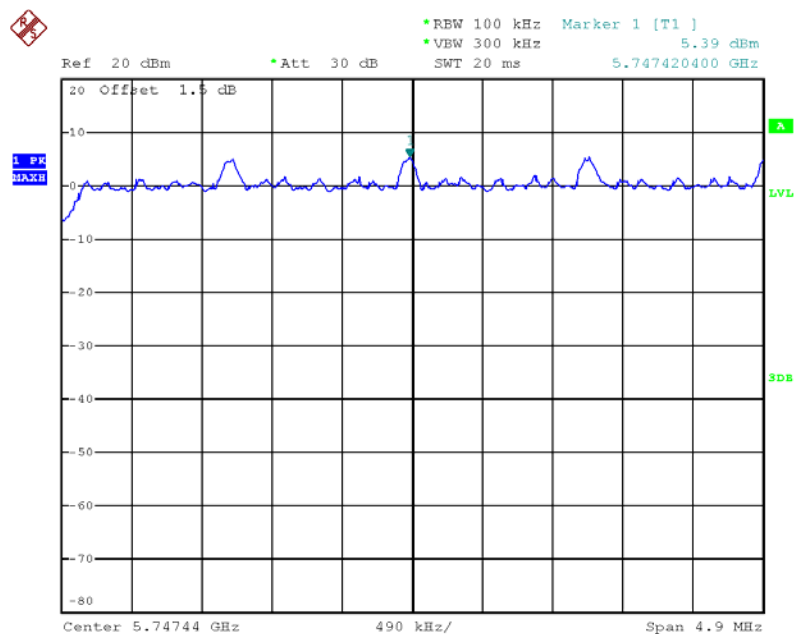
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 3



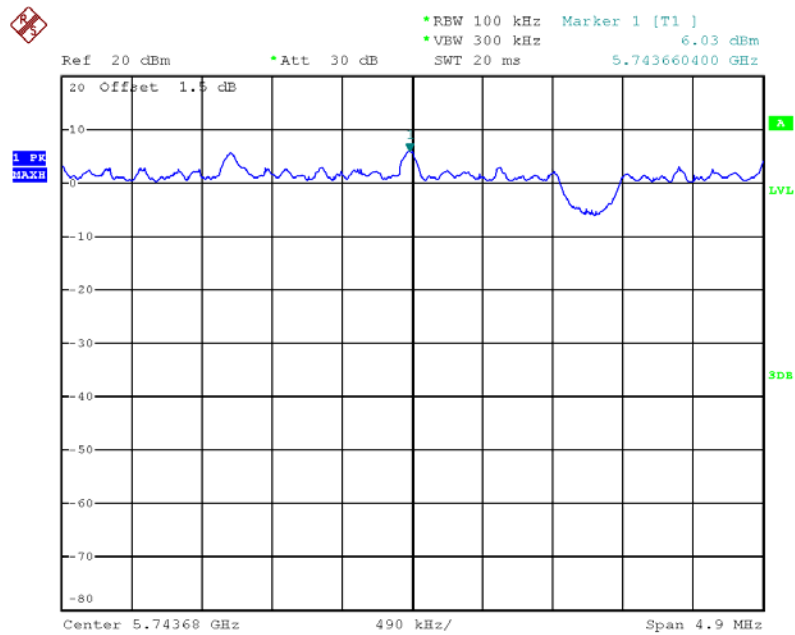
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5745 MHz / Mode 3



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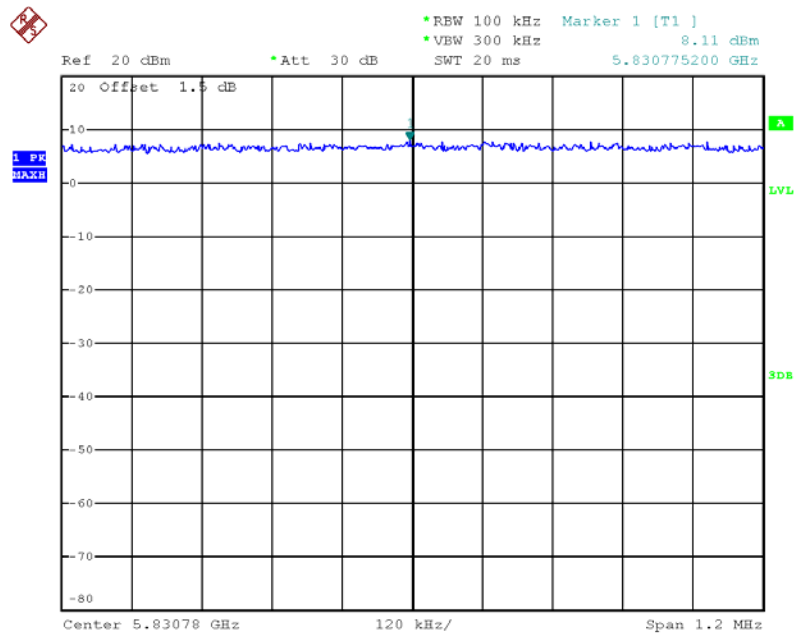
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5745 MHz / Mode 3



Date: 20.JUL.2012 15:01:22

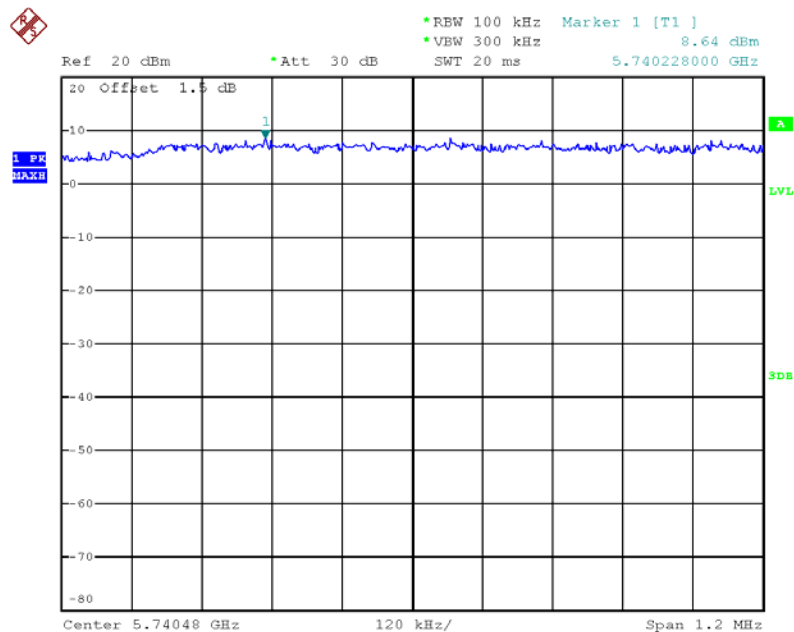
For P to P

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5830 MHz / Mode 3



Date: 21.JUL.2012 09:22:25

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 3



Date: 21.JUL.2012 09:28:44



*RBW 100 kHz Marker 1 [T1] 9.06 dBm
 *VW 300 kHz 5.783352800 GHz
 *Att 30 dB SWT 20 ms

Ref 20 dBm 20 Offset 1.5 dB

1 PK MAXH

LVL
 SDB

Center 5.78384 GHz 120 kHz/ Span 1.2 MHz

Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 1 [T1] 7.66 dBm
 5.744284800 GHz SWT 20 ms

20 Offset 1.5 dB

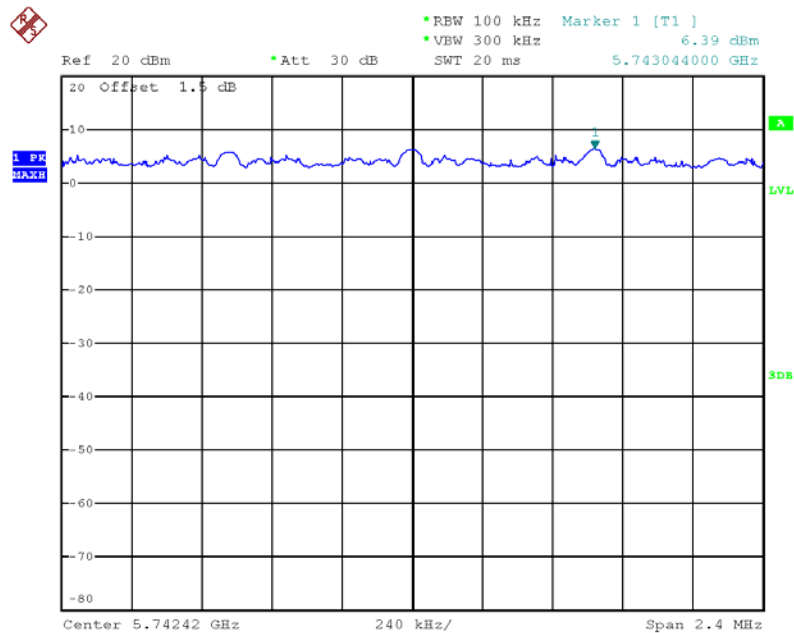
1.5 dB
 MAXH

-10
 -20
 -30
 -40
 -50
 -60
 -70
 -80

Center 5.74428 GHz 240 kHz/ Span 2.4 MHz

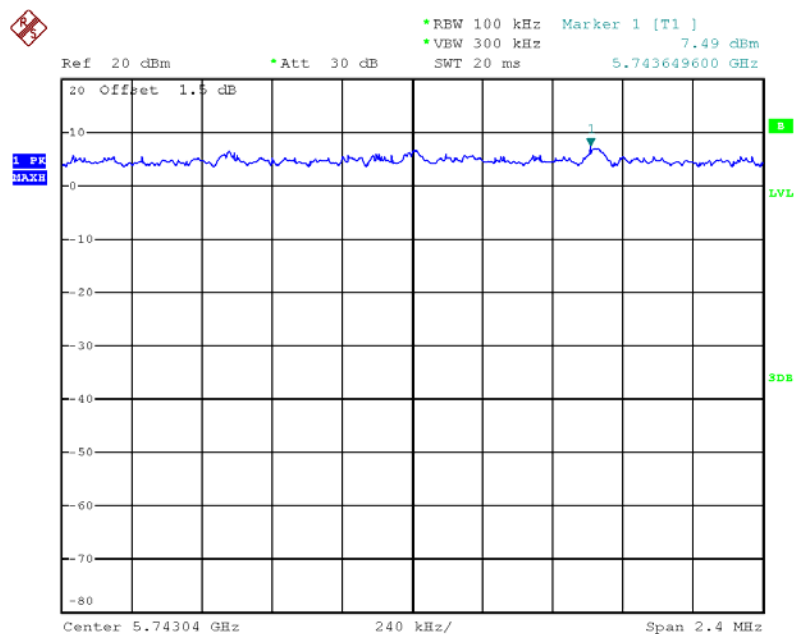
Page No. : 162 of 410
Issued Date : Oct. 09, 2012

Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 3



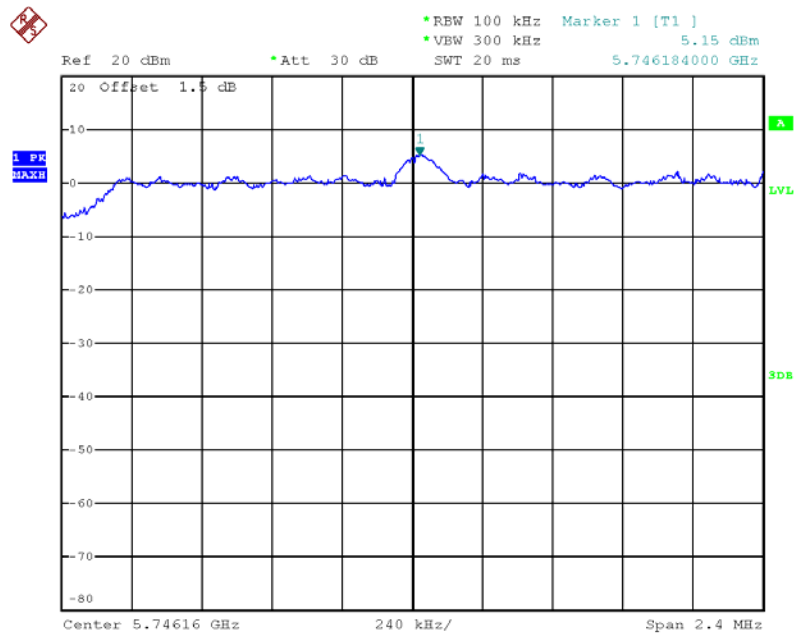
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5745 MHz / Mode 3



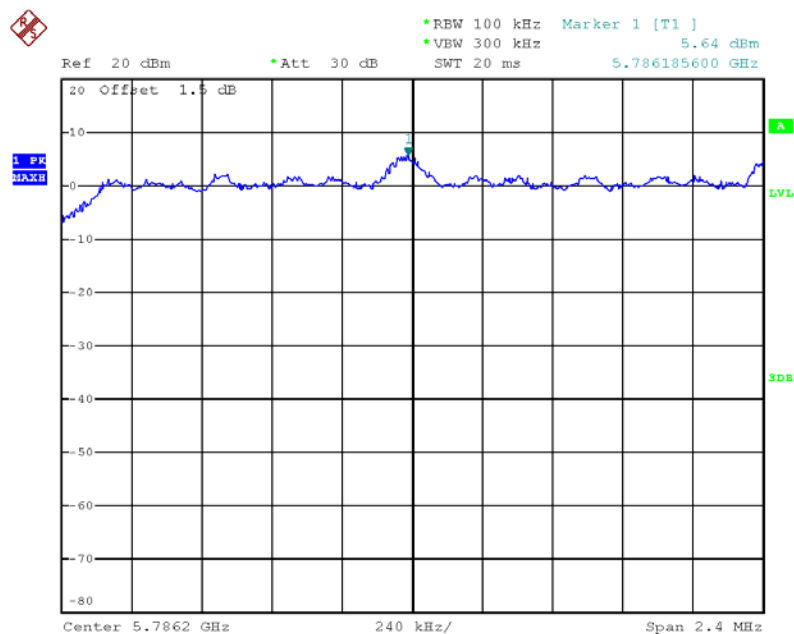
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 3



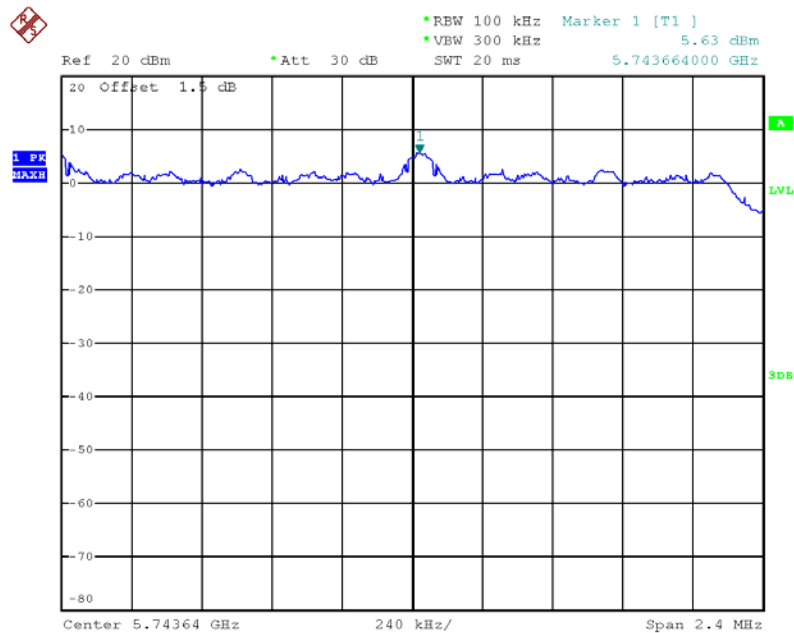
Date: 22.JUL.2012 11:00:25

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 3



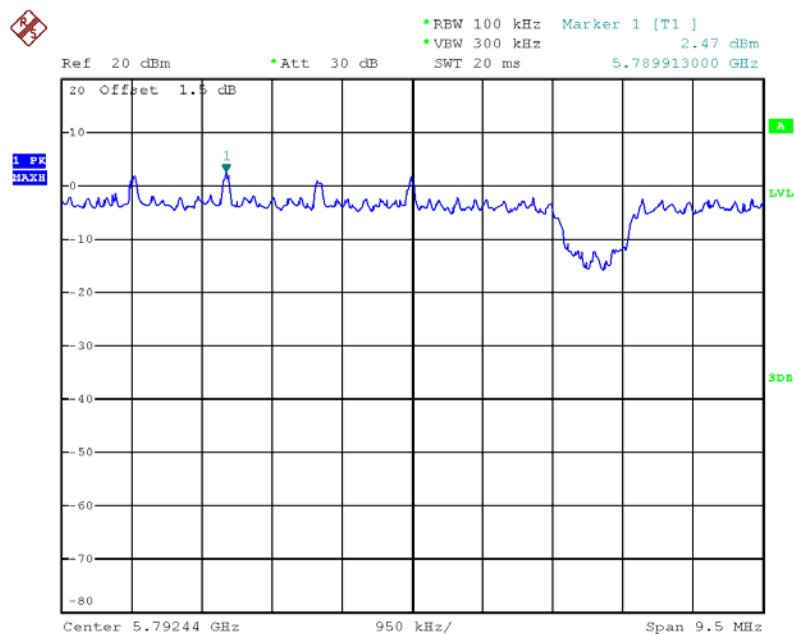
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 3



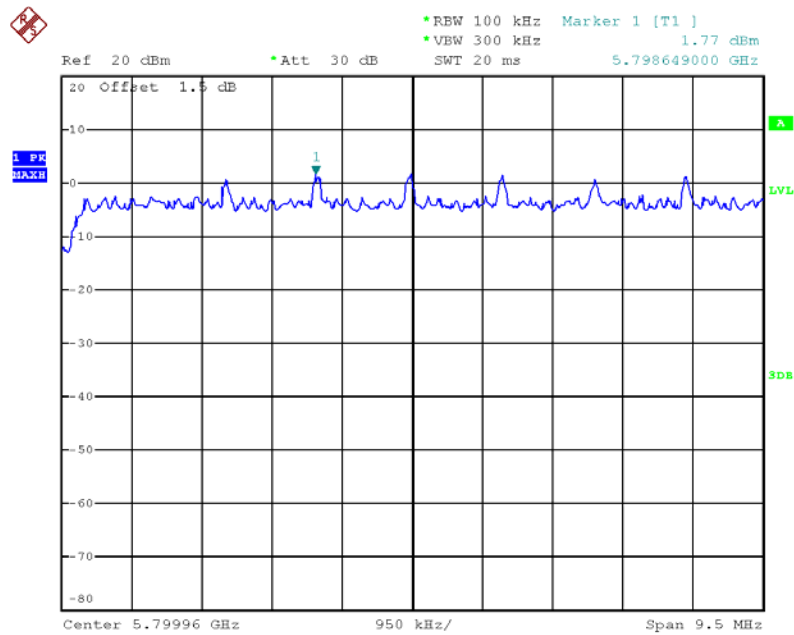
Date: 22.JUL.2012 11:02:02

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 3



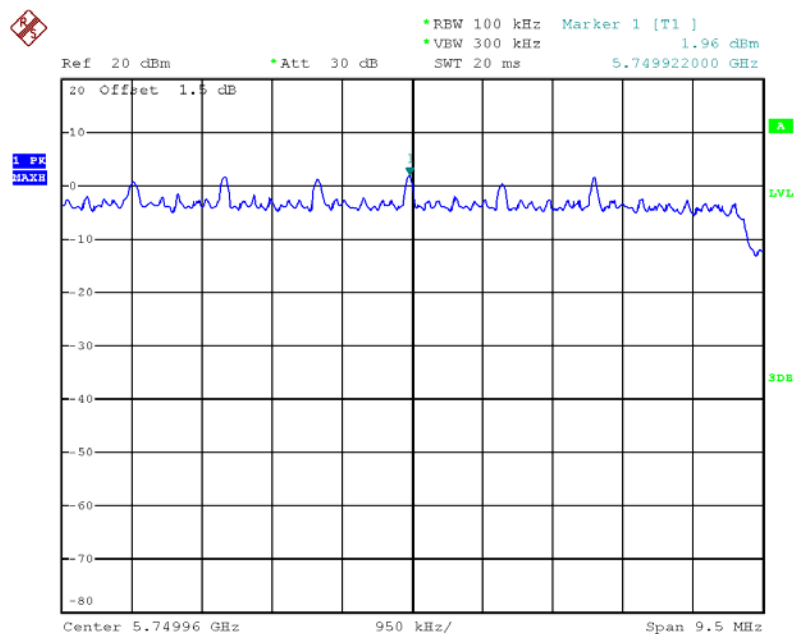
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 3



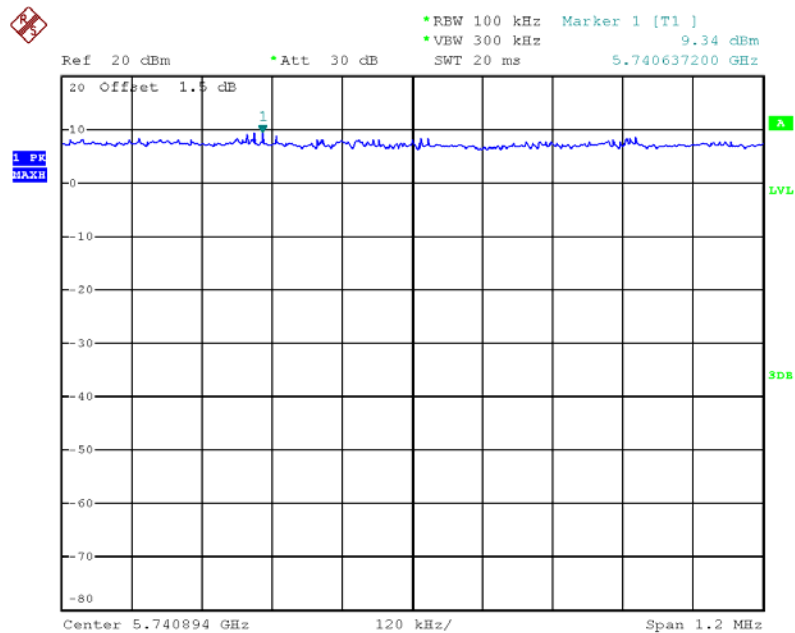
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 3



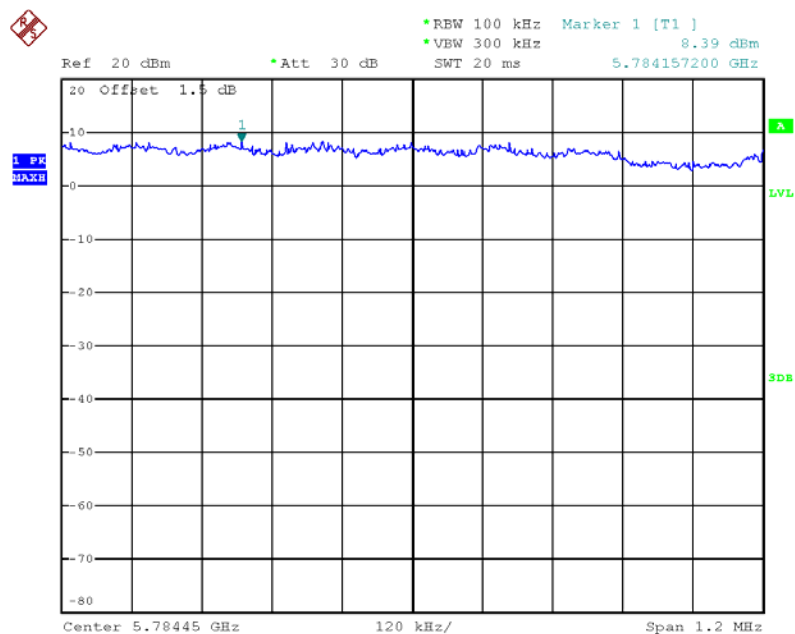
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 3



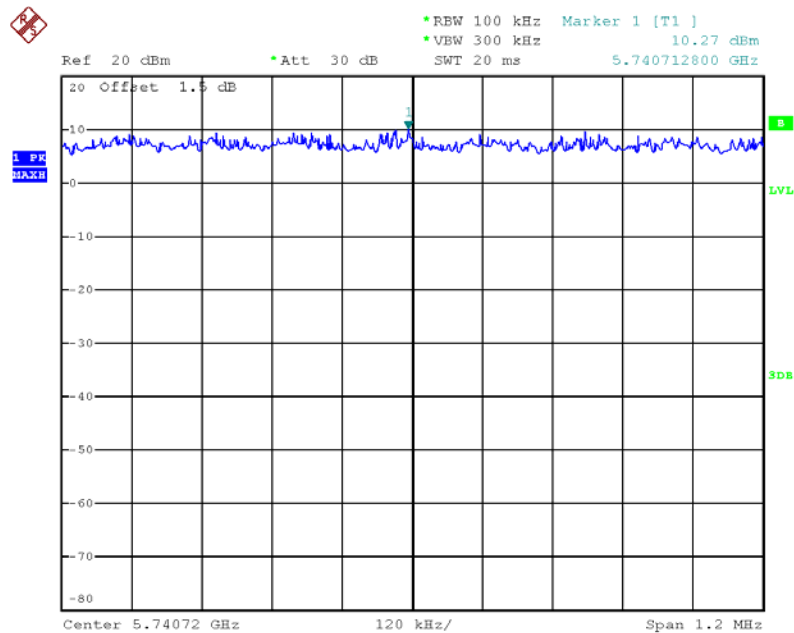
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 5785 MHz / Mode 3



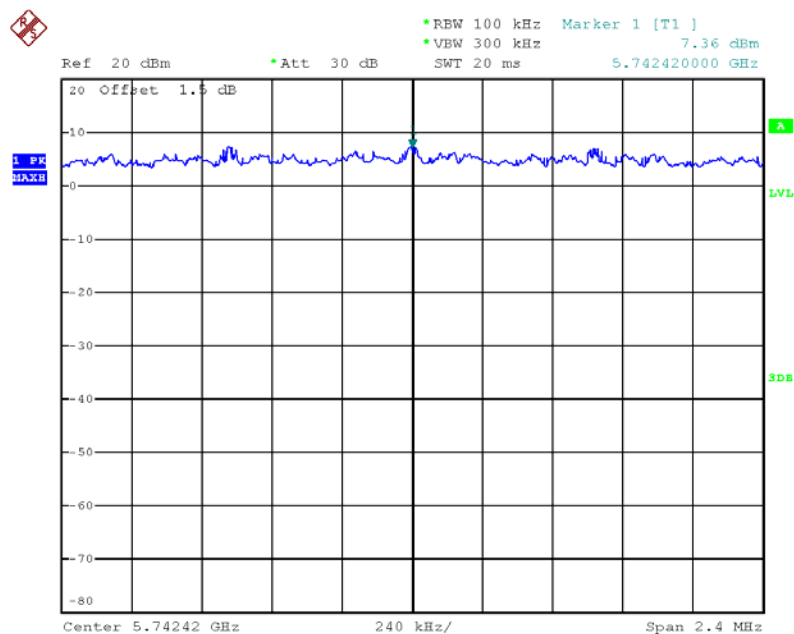
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5740 MHz / Mode 3



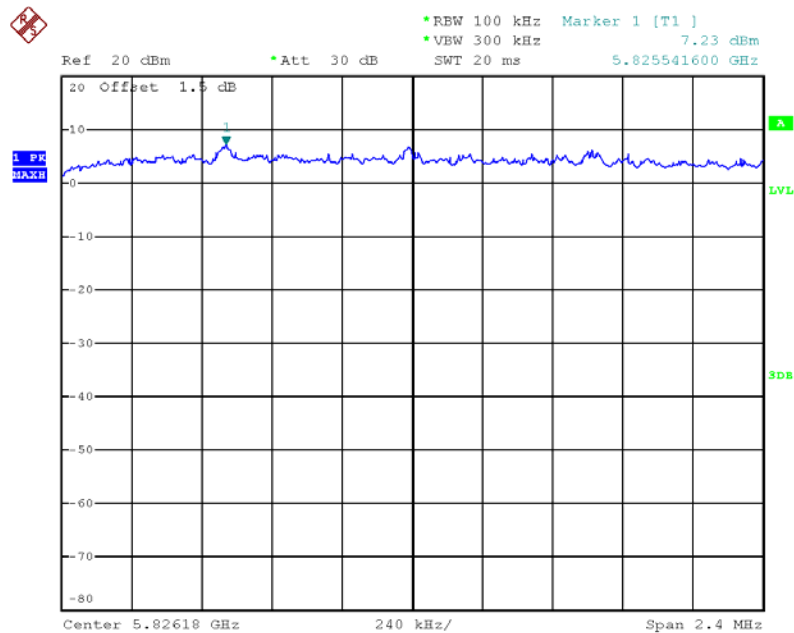
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 3



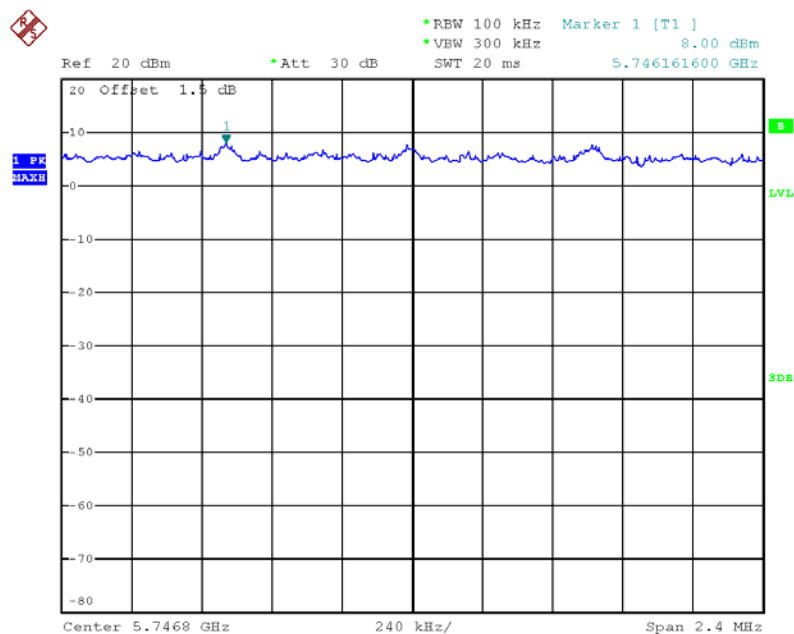
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5825 MHz / Mode 3



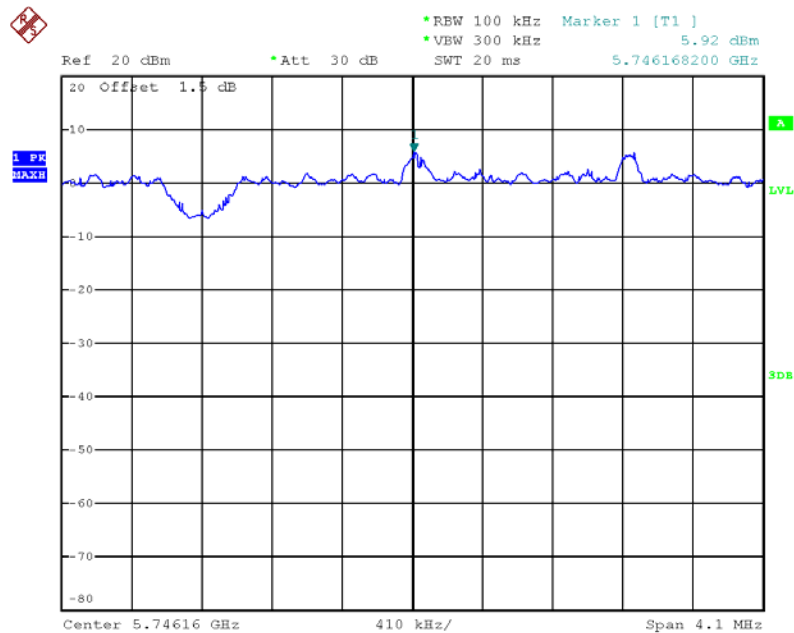
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5745 MHz / Mode 3



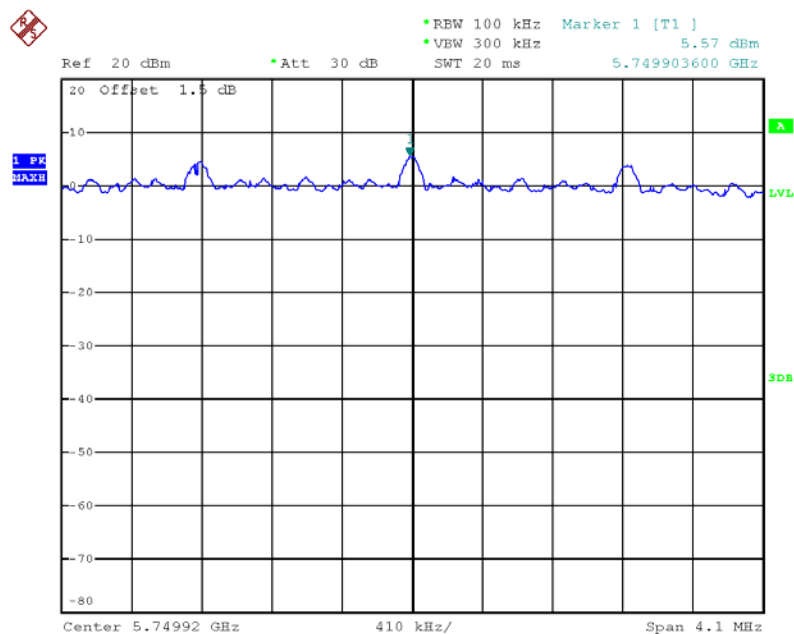
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 3



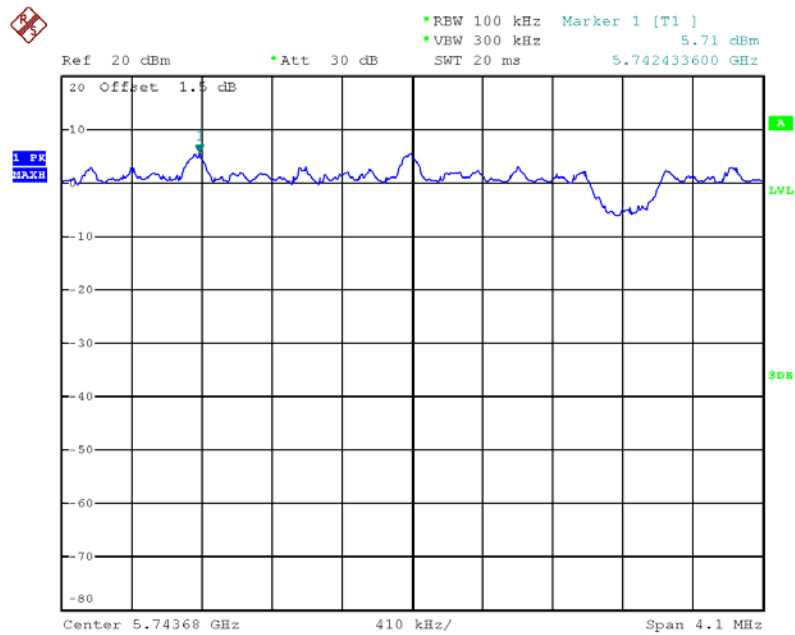
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5745 MHz / Mode 3



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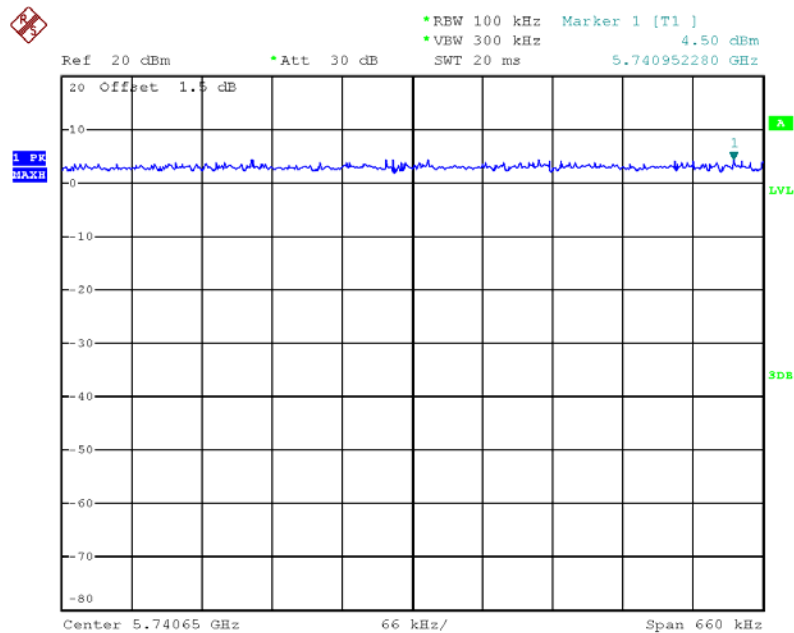
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5745 MHz / Mode 3



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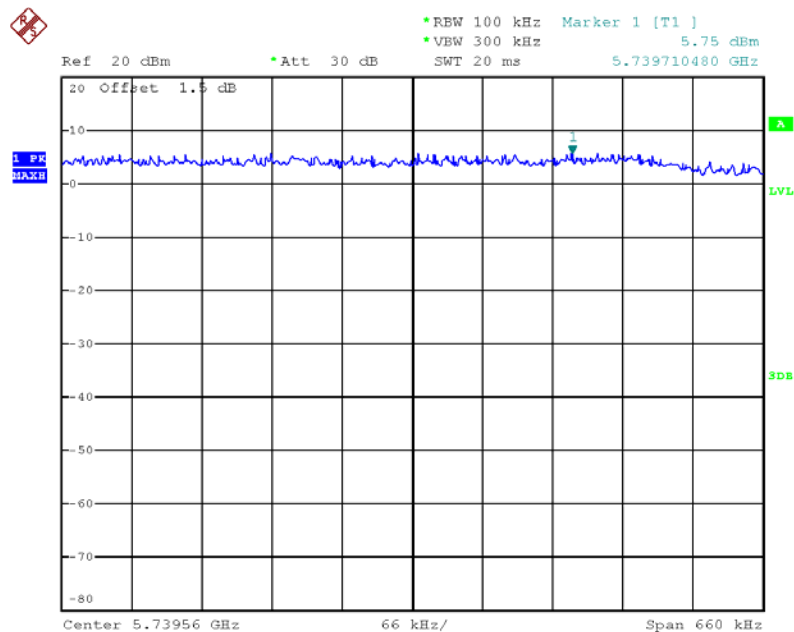
For P to M

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5740 MHz / Mode 4



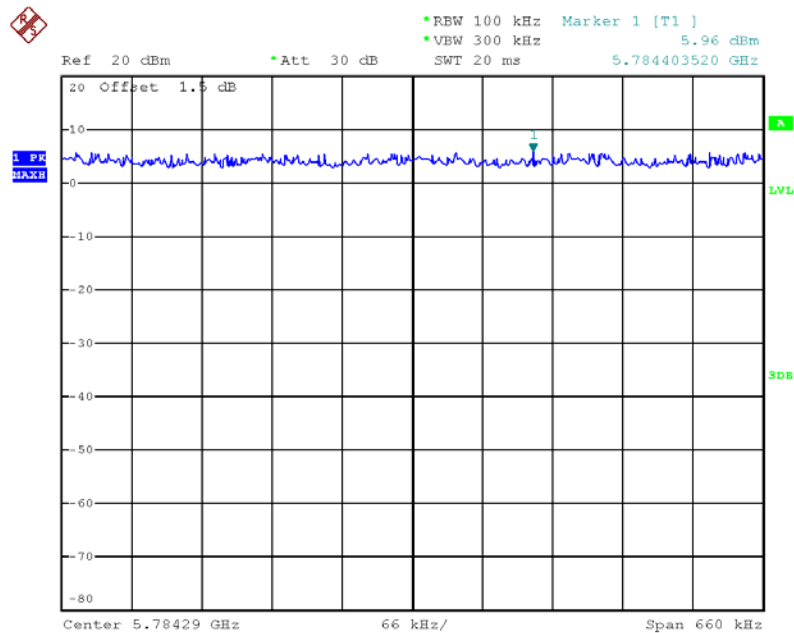
Date: 22.JUL.2012 11:18:33

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 4



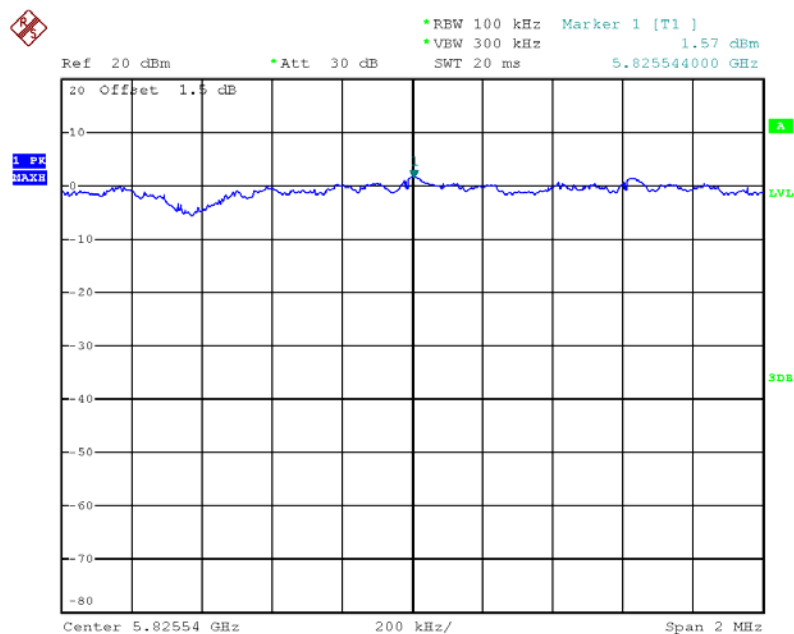
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 4



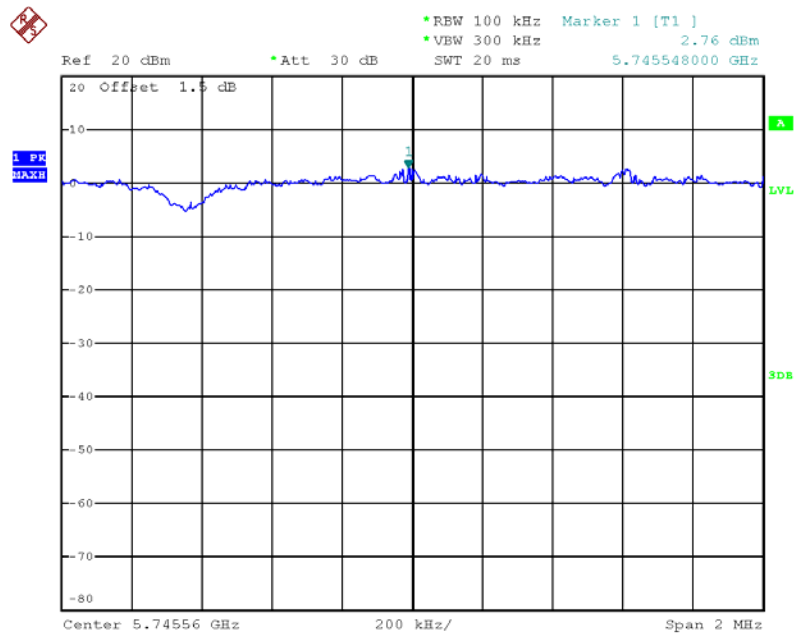
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5825 MHz / Mode 4



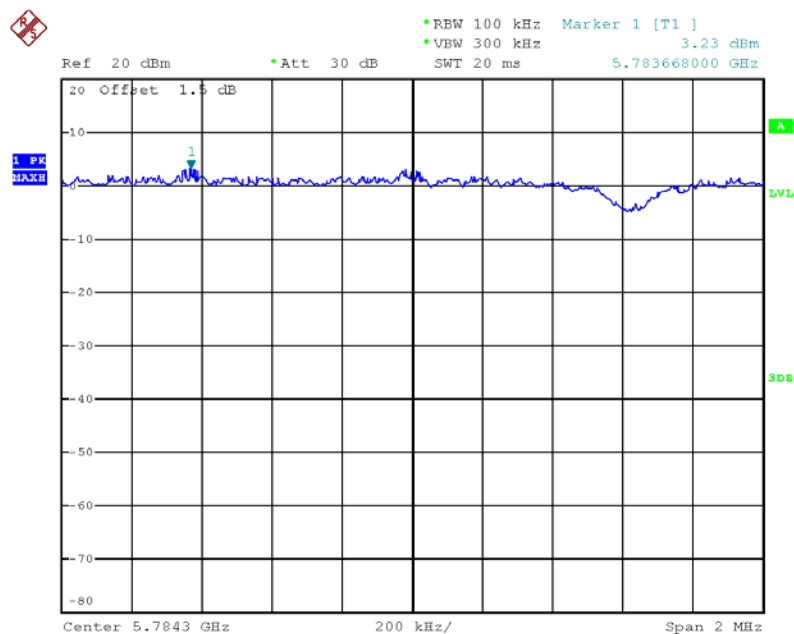
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 4



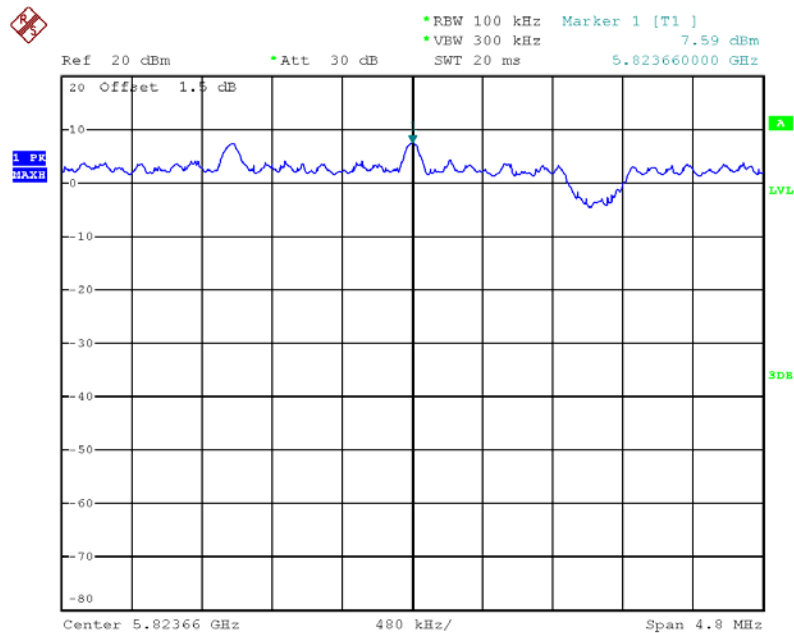
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5785 MHz / Mode 4



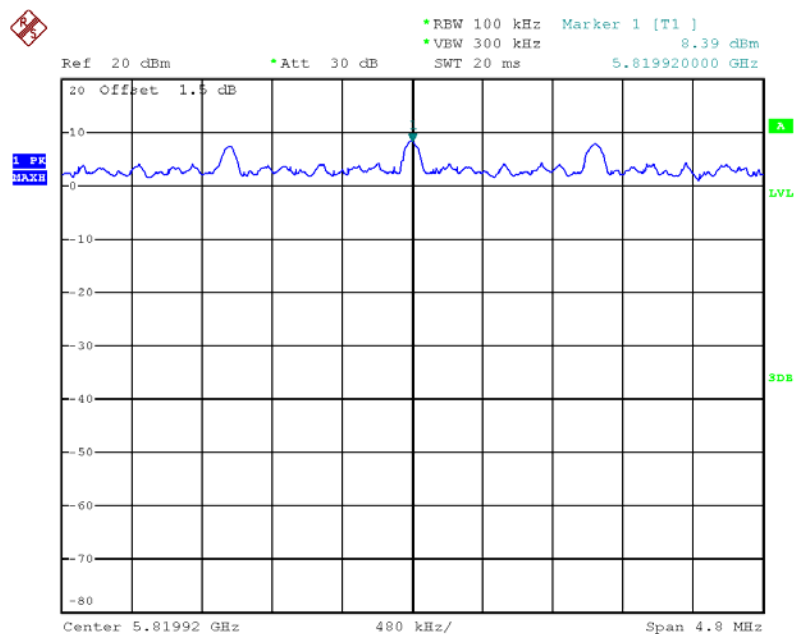
Date: 22.JUL.2012 11:45:53

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5825 MHz / Mode 4



Date: 21.JUL.2012 08:37:18

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5825 MHz / Mode 4



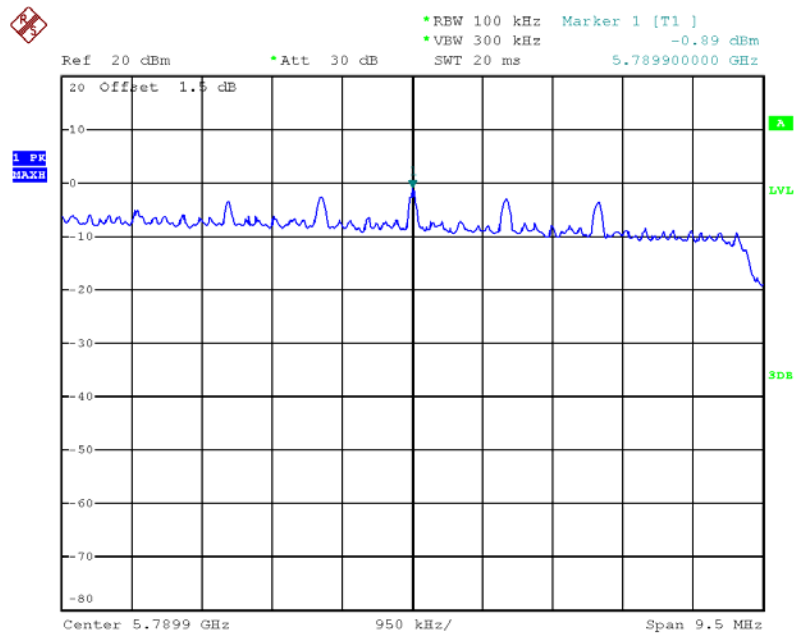
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Date: 21.JUL.2012 13:15:11

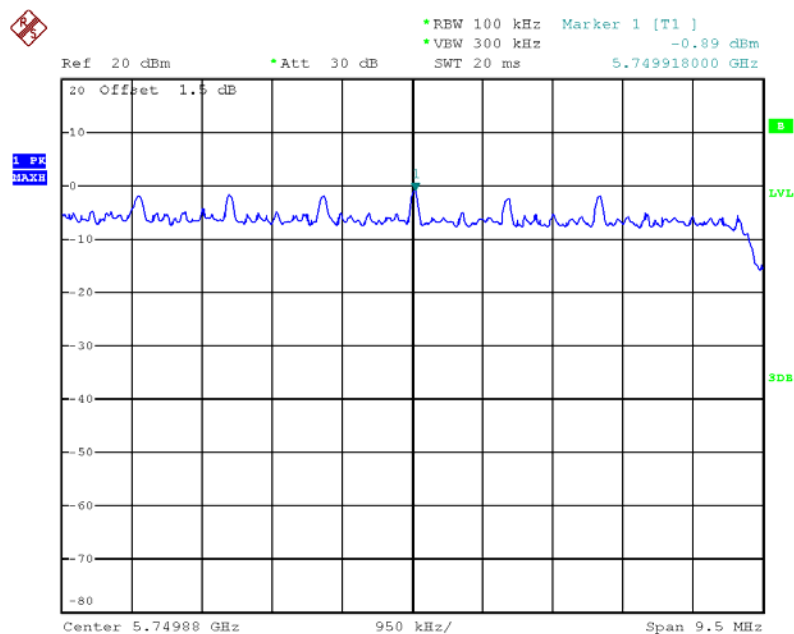
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 4



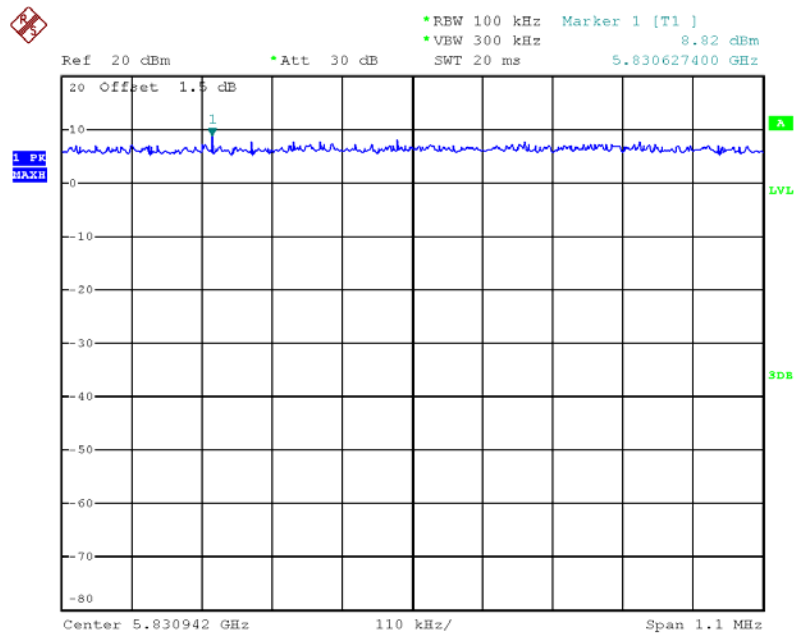
Date: 21.JUL.2012 08:56:17

Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 4



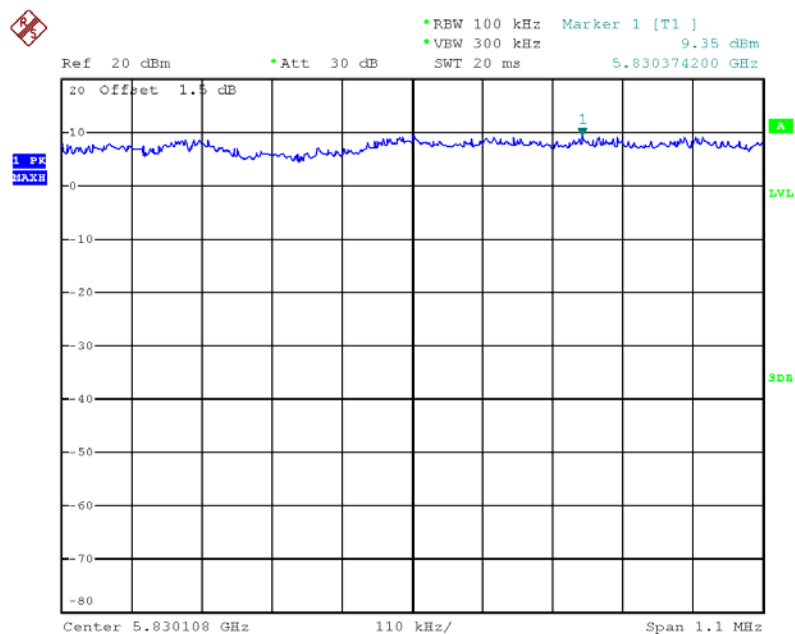
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5830 MHz / Mode 4



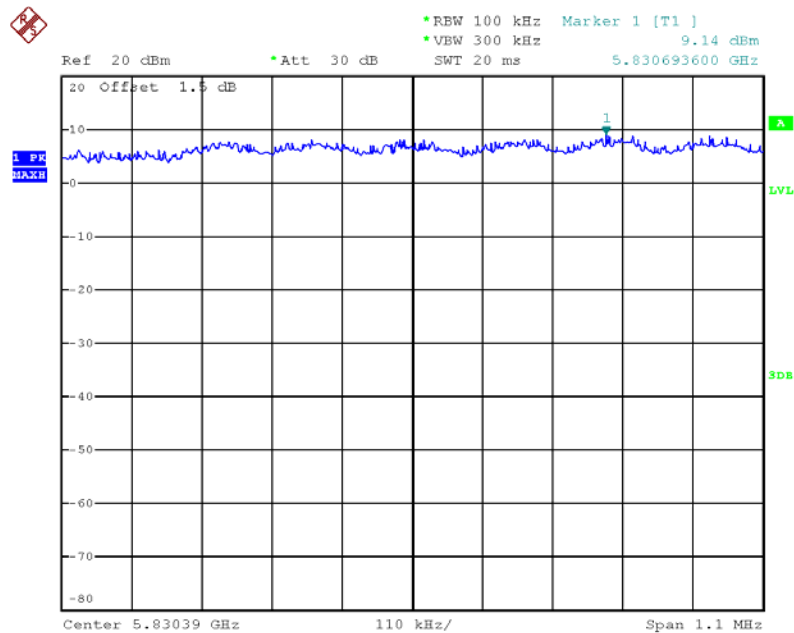
Date: 9.AUG.2012 16:53:40

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 5830 MHz / Mode 4



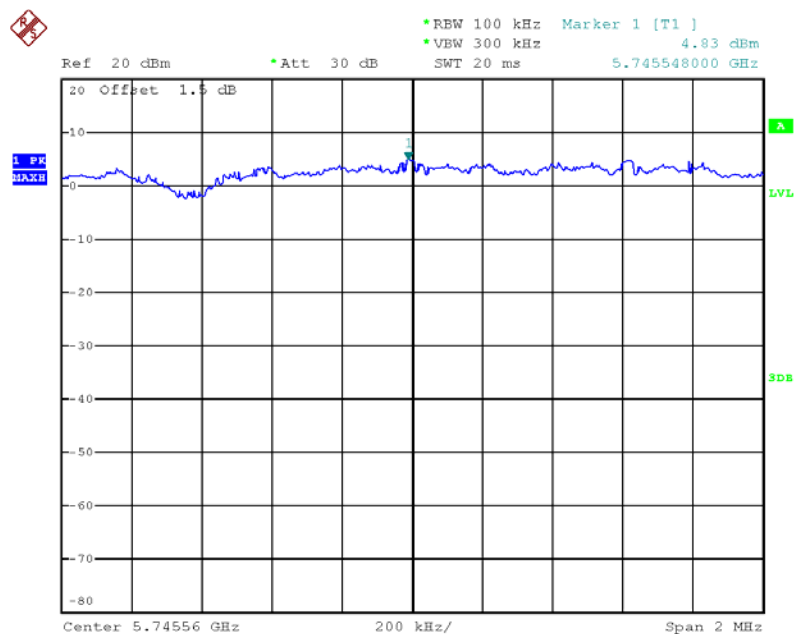
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5830 MHz / Mode 4



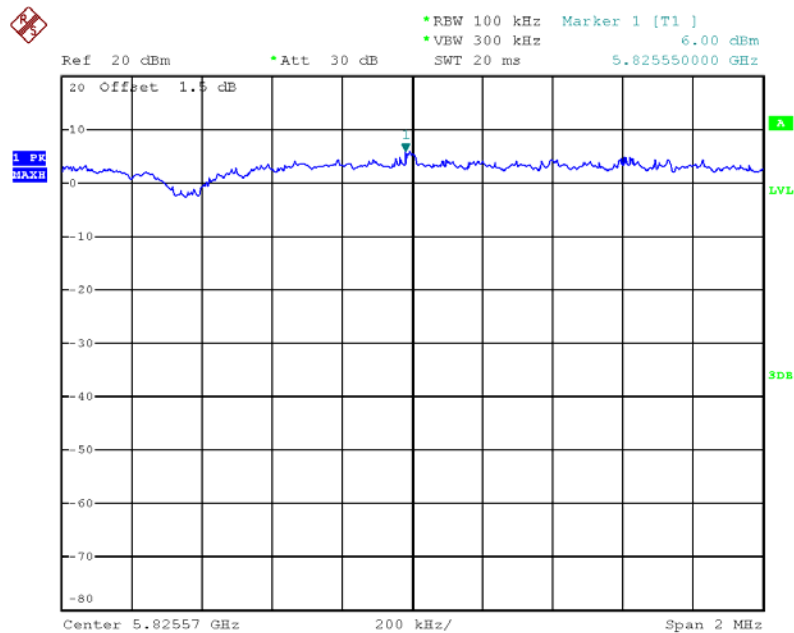
Date: 9.AUG.2012 16:55:30

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 4



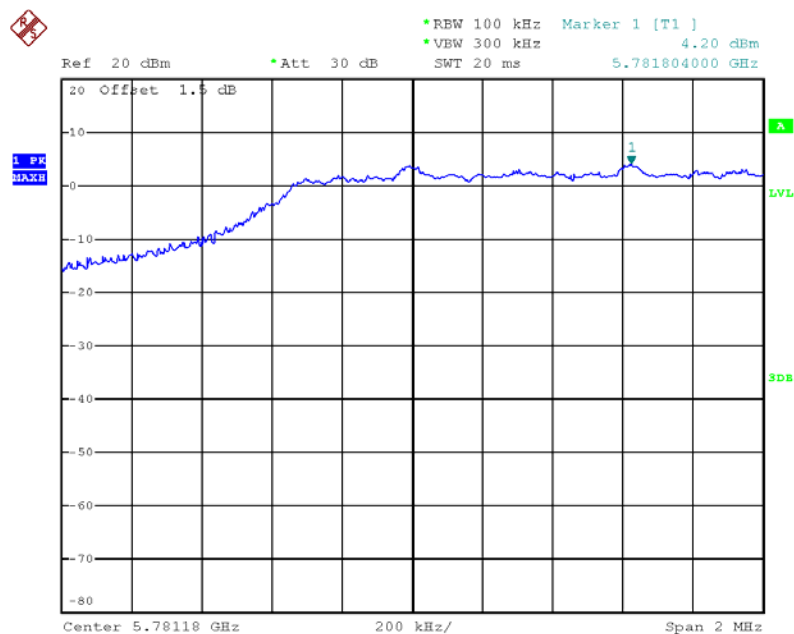
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5825 MHz / Mode 4



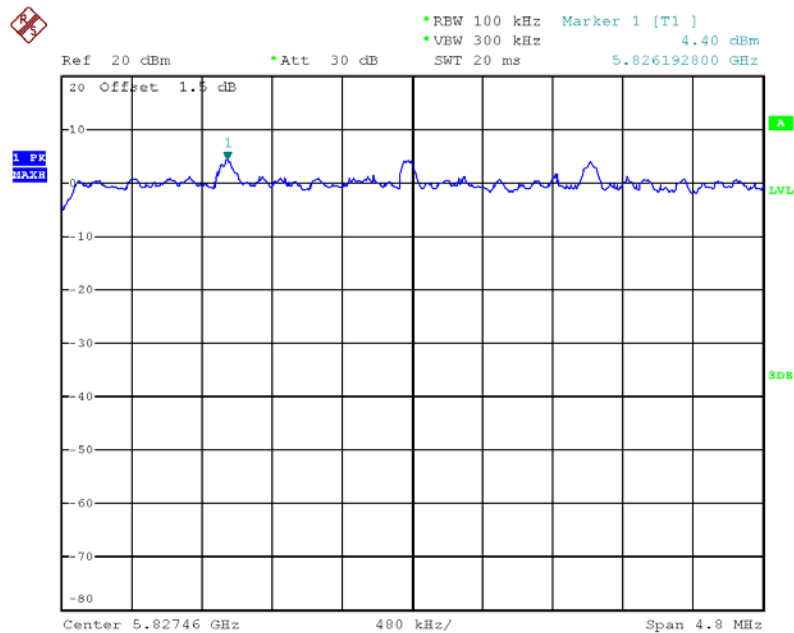
Date: 9.AUG.2012 17:11:23

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5785 MHz / Mode 4



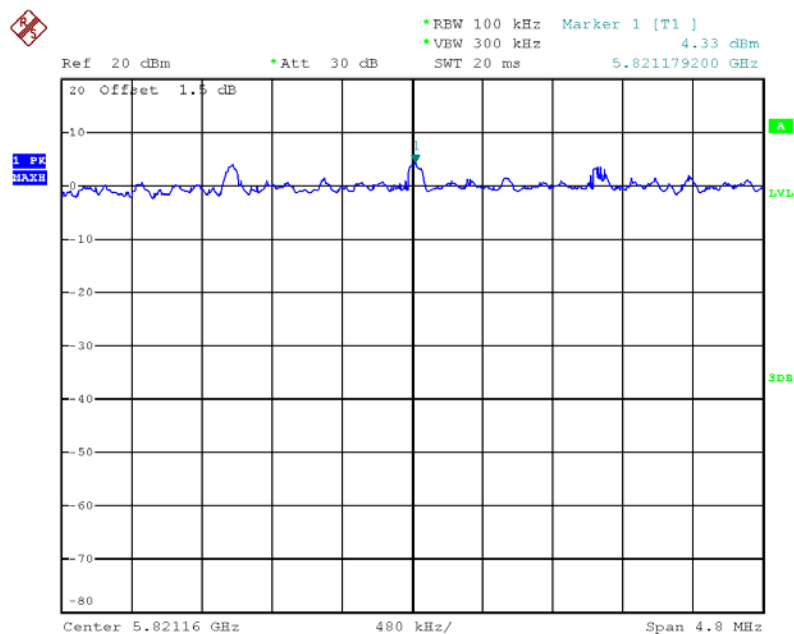
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5825 MHz / Mode 4



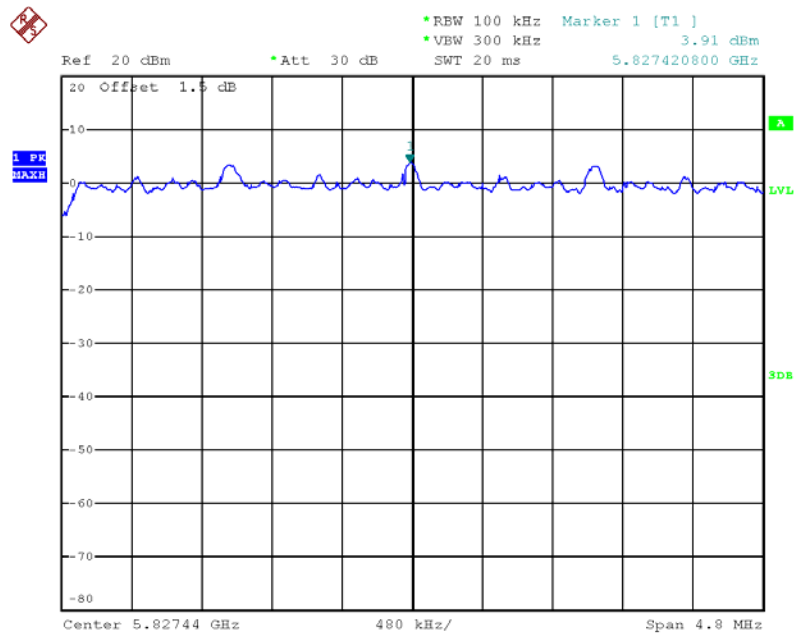
Date: 9.AUG.2012 14:16:24

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5825 MHz / Mode 4



Date: 9.AUG.2012 14:17:24

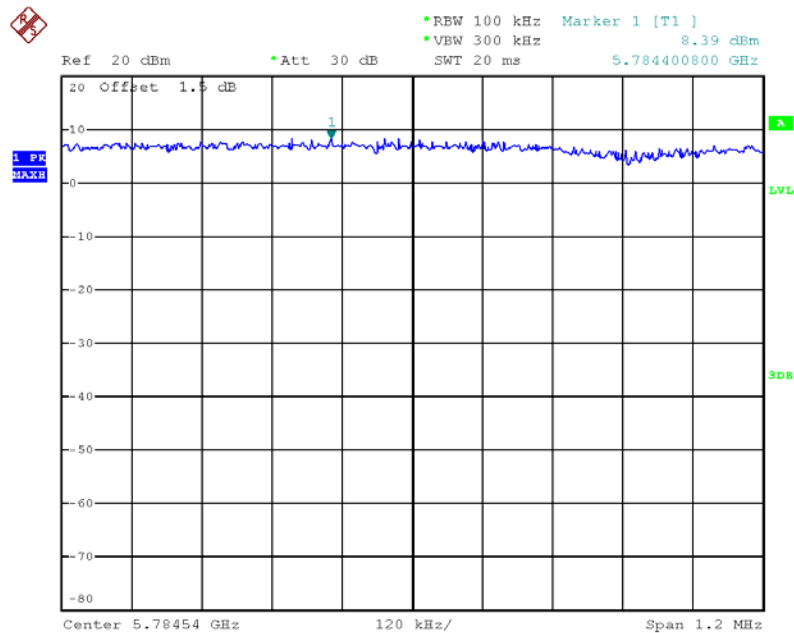
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5825 MHz / Mode 4



Date: 9.AUG.2012 14:18:31

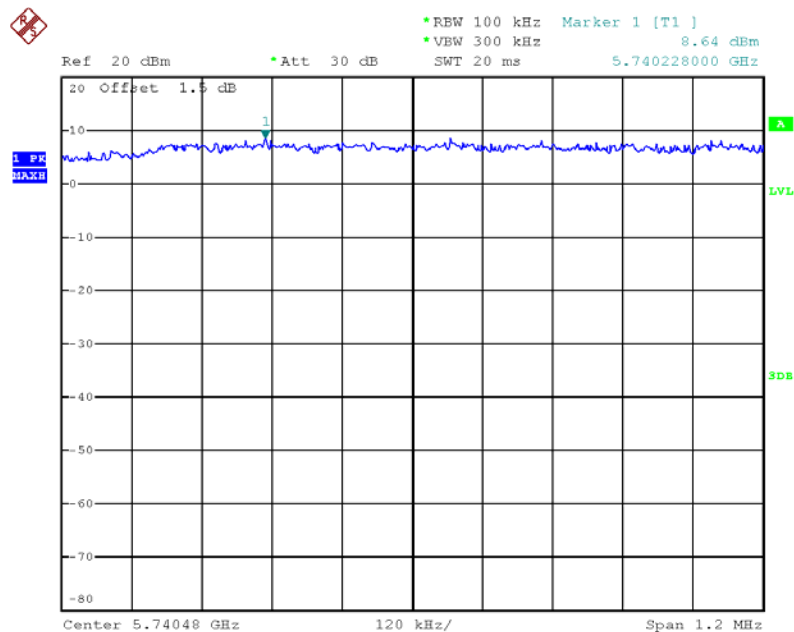
For P to P

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5785 MHz / Mode 4



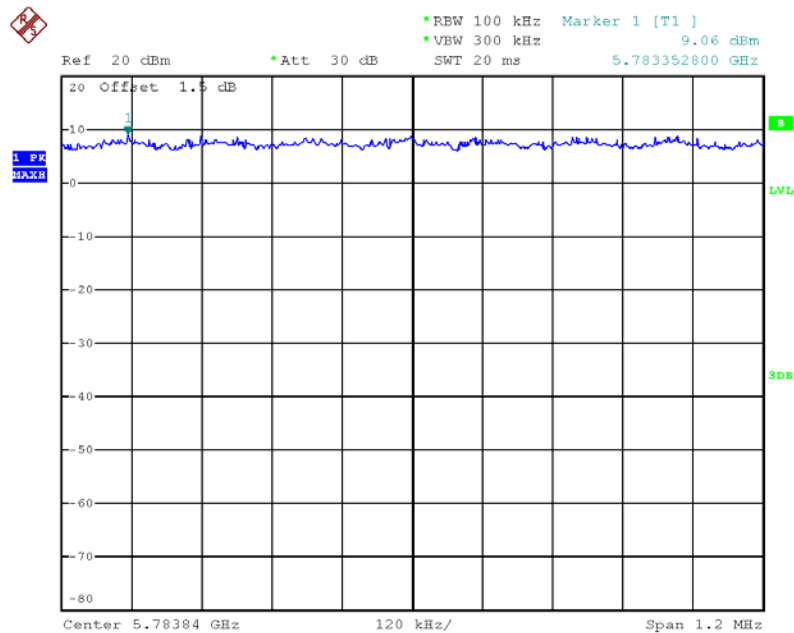
Date: 21.JUL.2012 09:23:33

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 2 / 5740 MHz / Mode 4



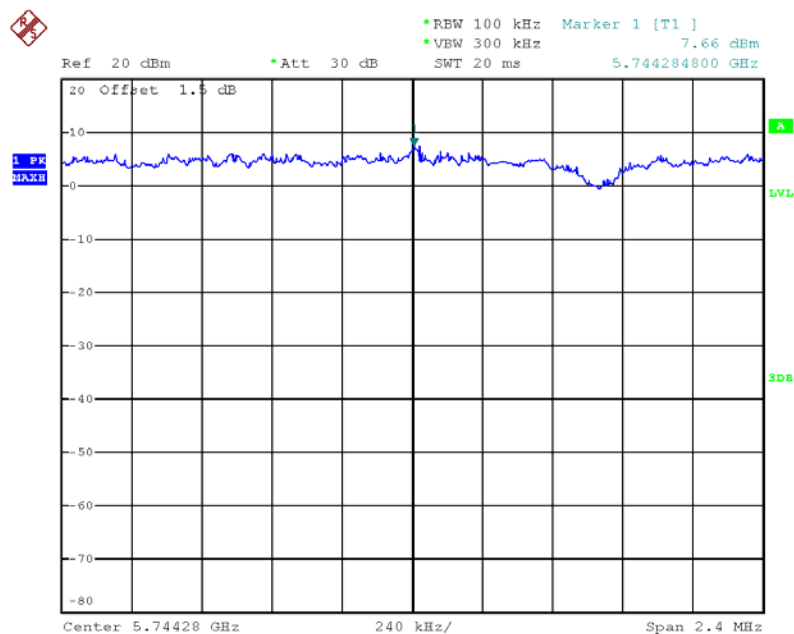
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5785 MHz / Mode 4



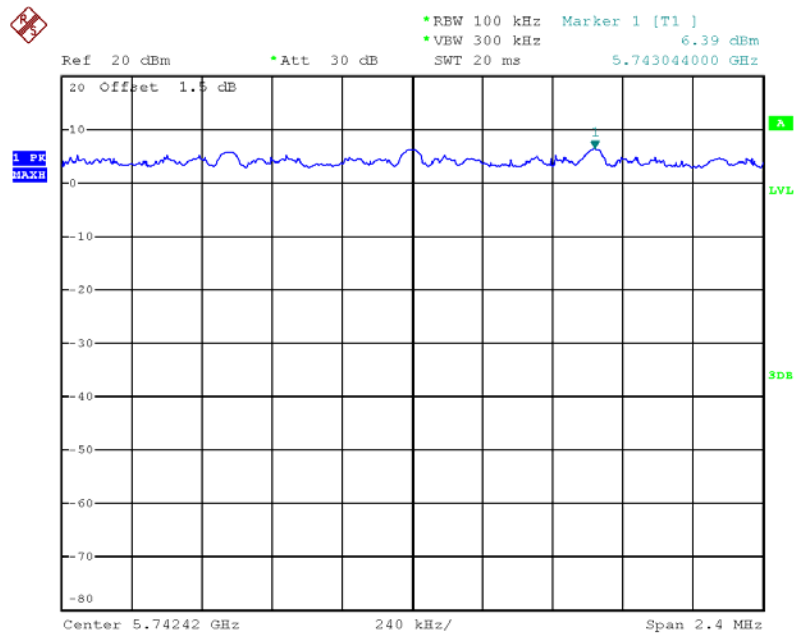
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 4



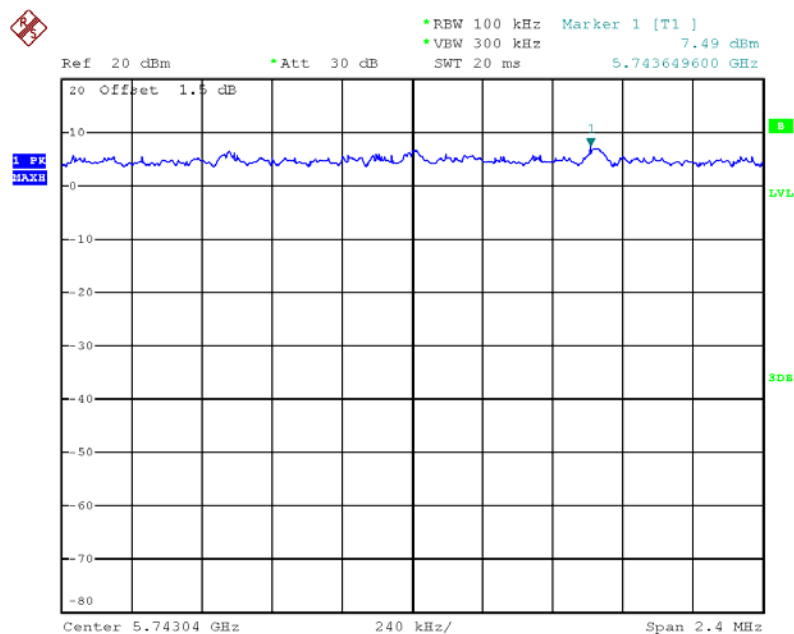
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 2 / 5745 MHz / Mode 4



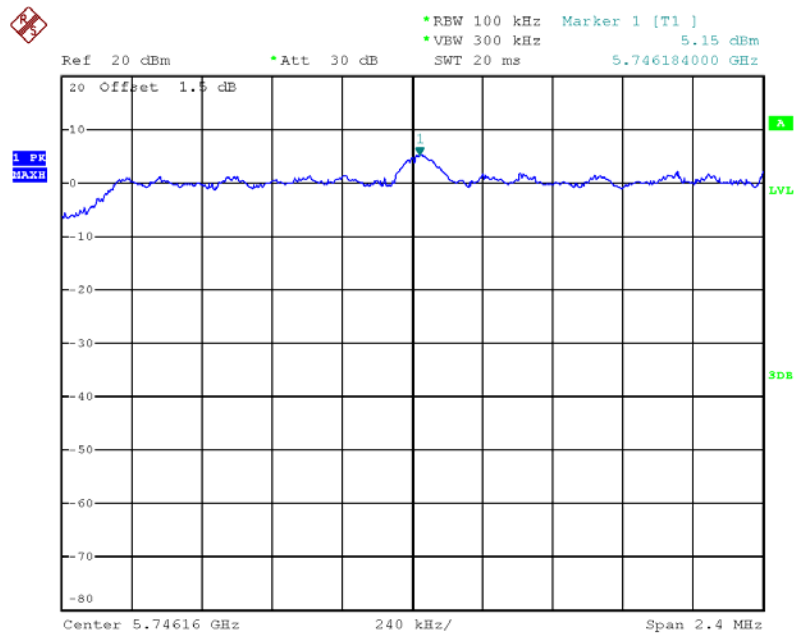
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5745 MHz / Mode 4



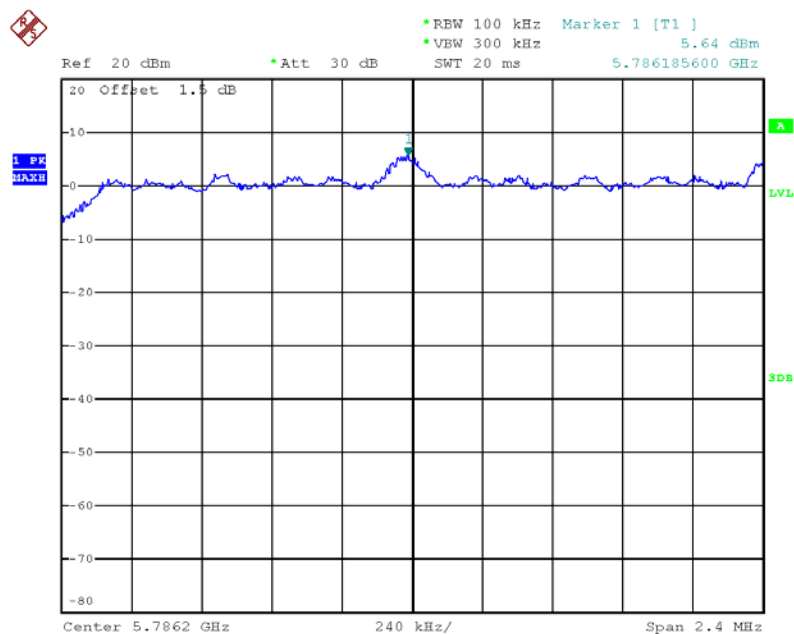
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 4



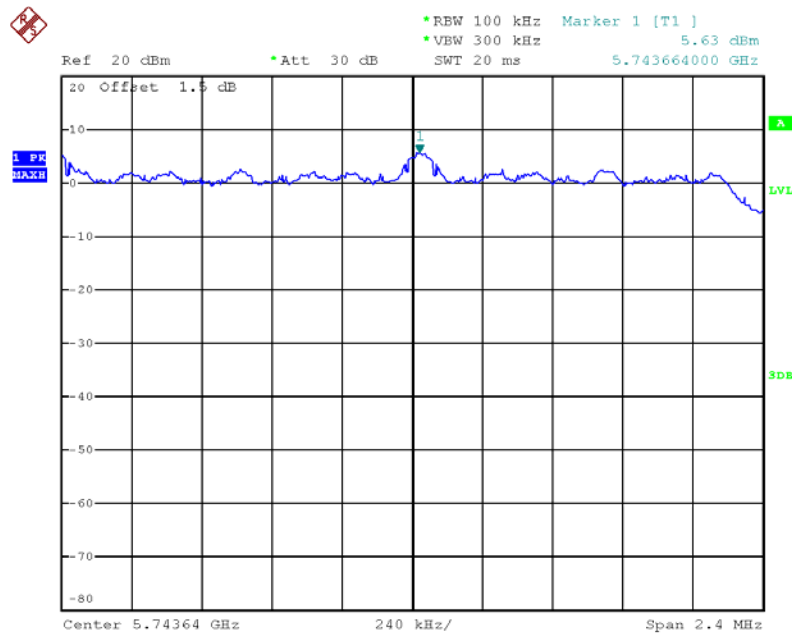
Date: 22.JUL.2012 11:00:25

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 4



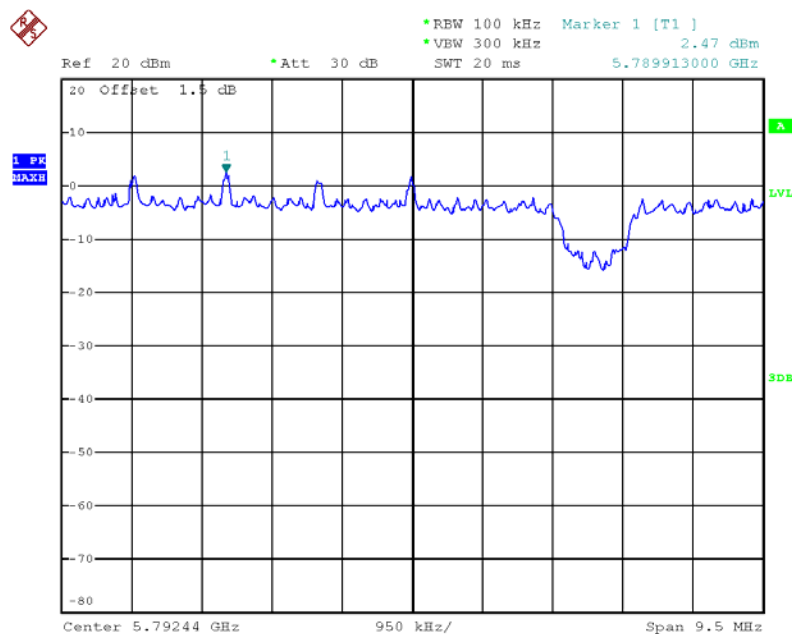
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 4



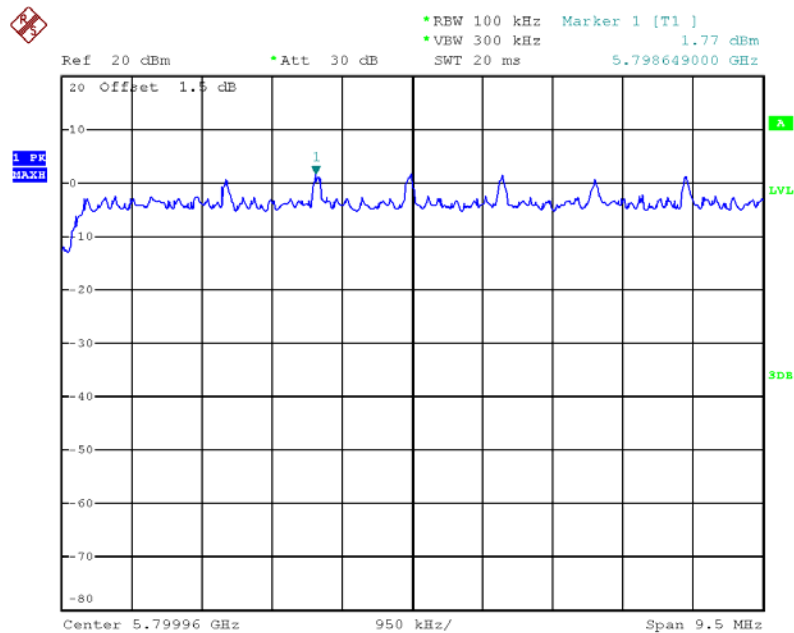
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 4



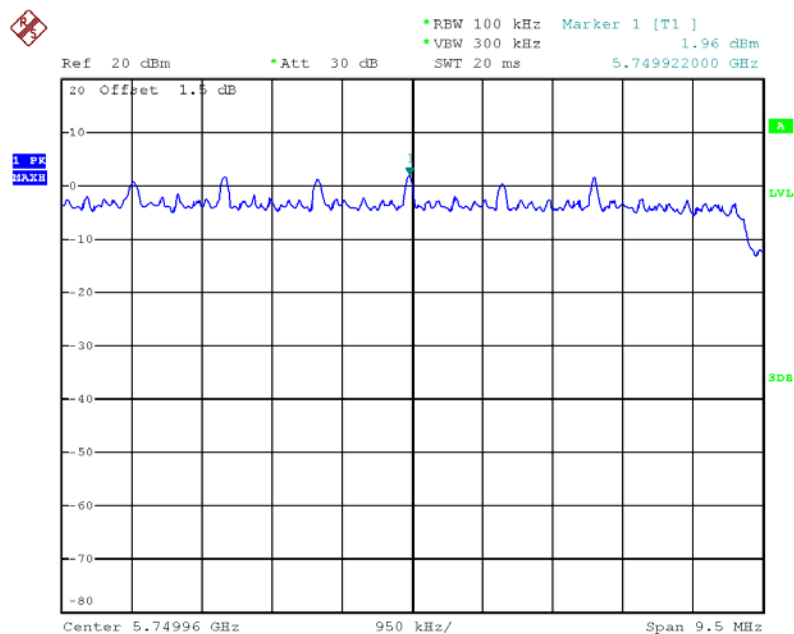
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 4



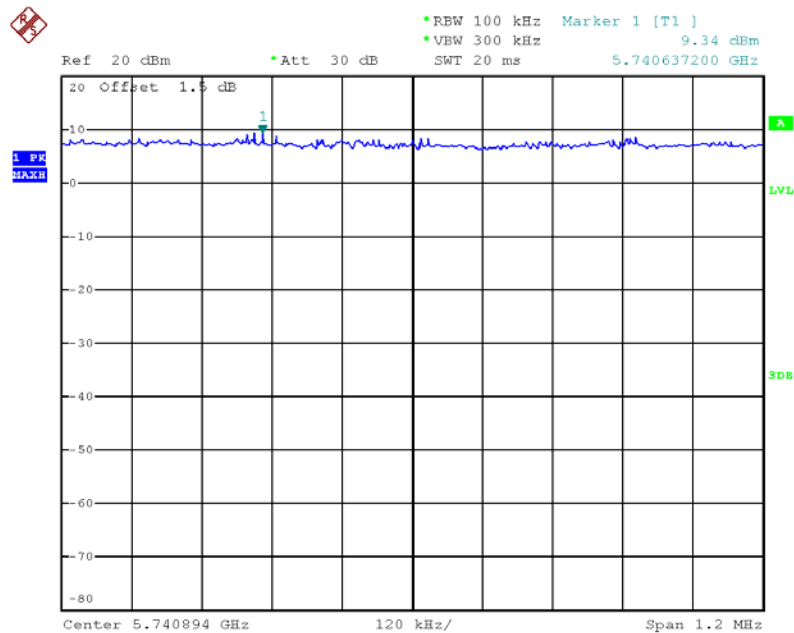
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Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 3 / 5755 MHz / Mode 4



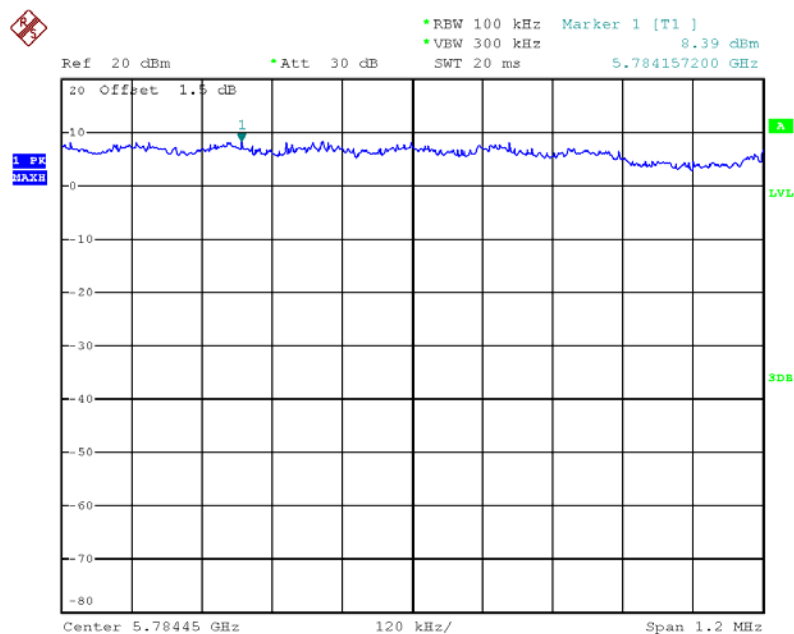
Date: 22.JUL.2012 11:11:44

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 4



Date: 21.JUL.2012 09:05:17

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 2 / 57850 MHz / Mode 4



Date: 21.JUL.2012 09:09:54



20 Offset 1.5 dB

1 PK MAX

1

LVL

SDB

Ref 20 dBm Att 30 dB RBW 100 kHz VBW 300 kHz SWT 20 ms Marker 1 [T1] 10.27 dBm 5.740712800 GHz

Center 5.74072 GHz 120 kHz/ Span 1.2 MHz

Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 1 [T1] 7.36 dBm
 VEW 300 kHz SWT 20 ms 5.742420000 GHz

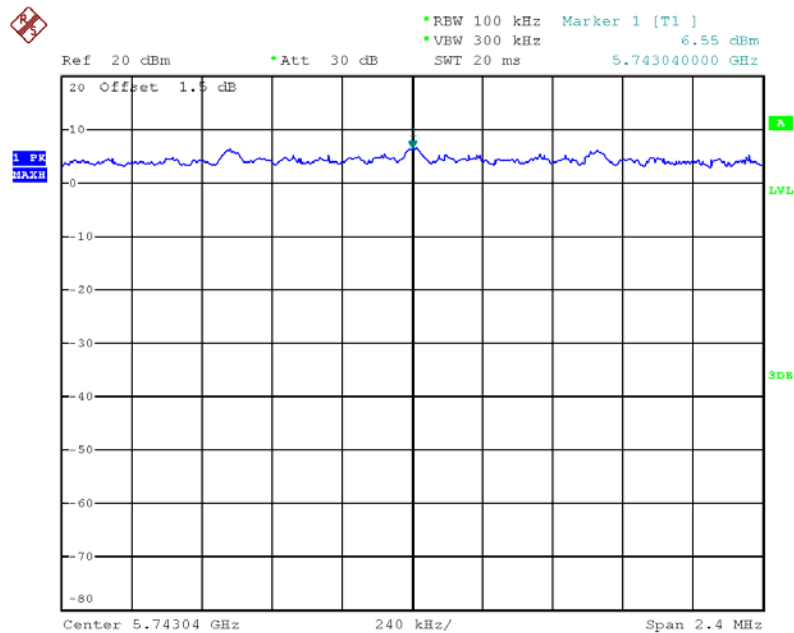
20 Offset 1.5 dB

1.5 dB
 MAX

Center 5.74242 GHz 240 kHz/ Span 2.4 MHz

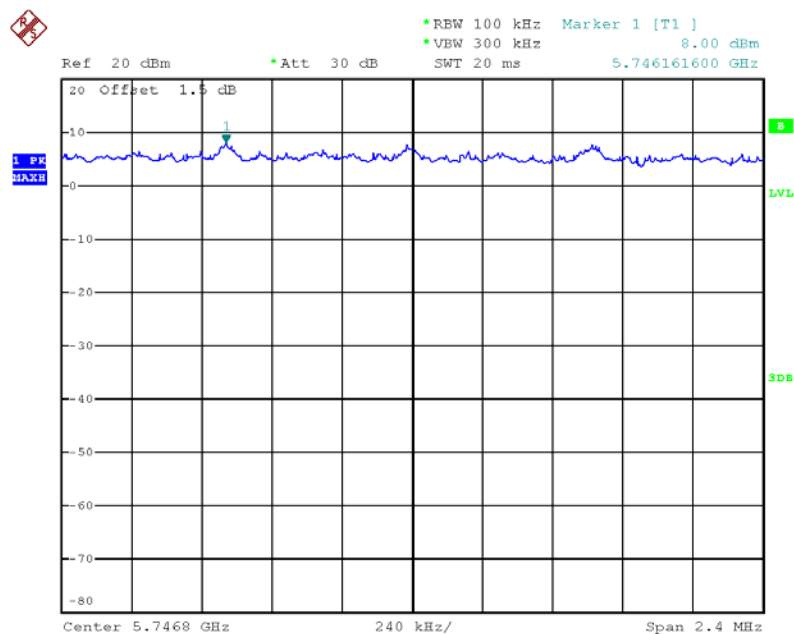
Page No. : 190 of 410
Issued Date : Oct. 09, 2012

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 2 / 5745 MHz / Mode 4



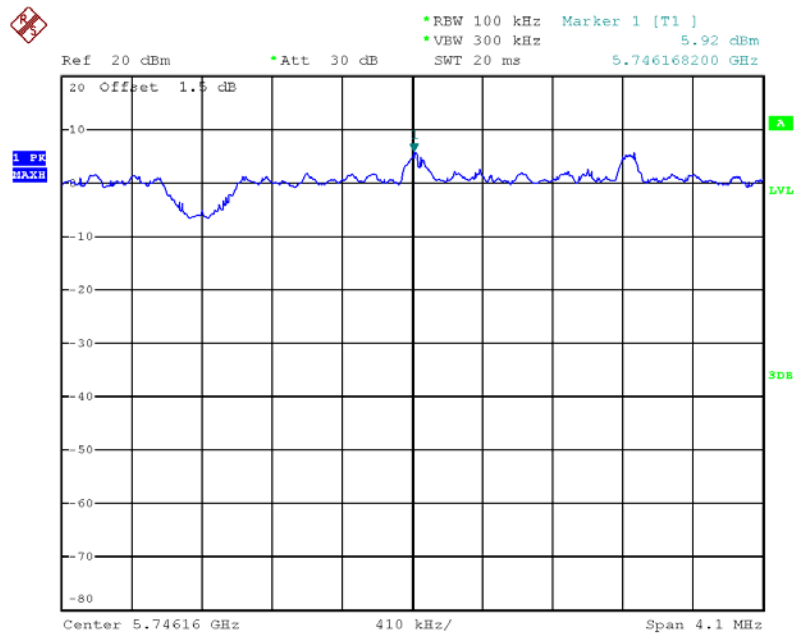
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5745 MHz / Mode 4



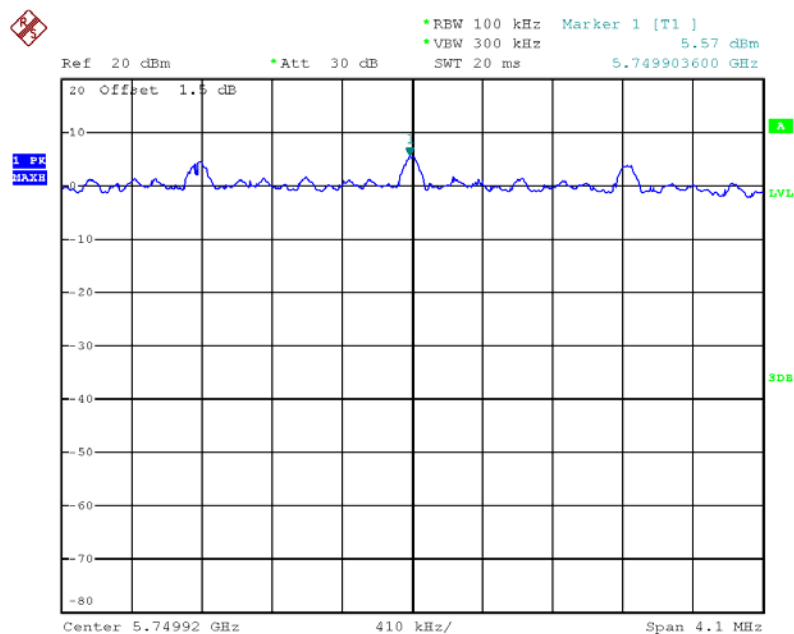
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 4



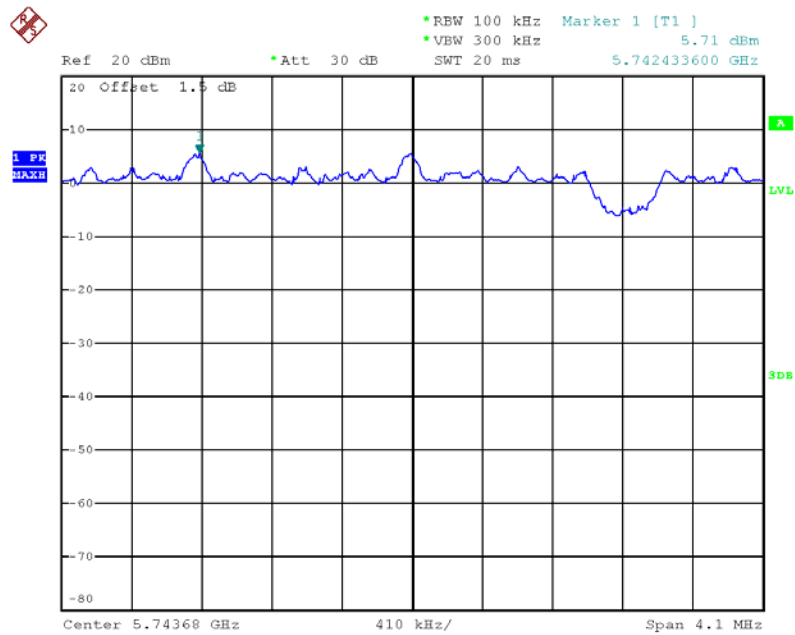
Date: 22.JUL.2012 10:58:39

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 2 / 5745 MHz / Mode 4



Date: 22.JUL.2012 10:57:50

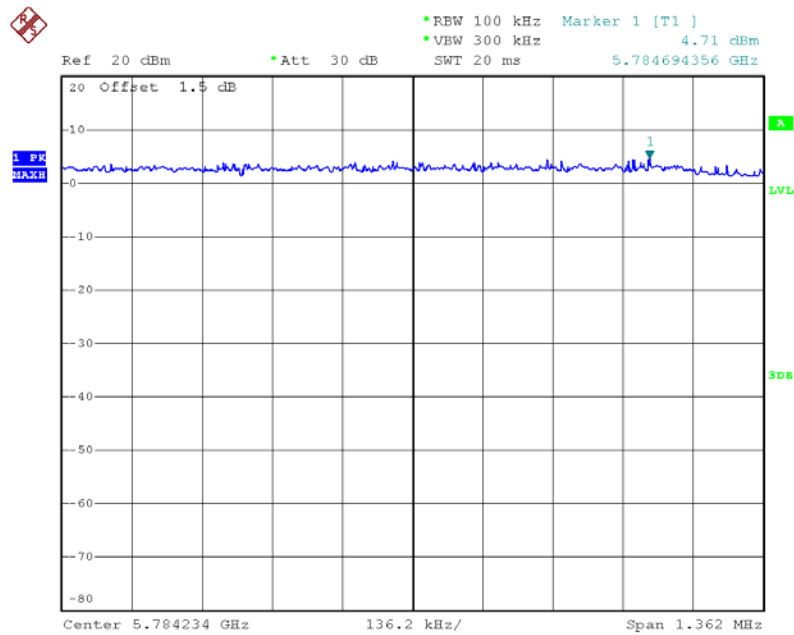
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5745 MHz / Mode 4



Date: 22.JUL.2012 10:56:54

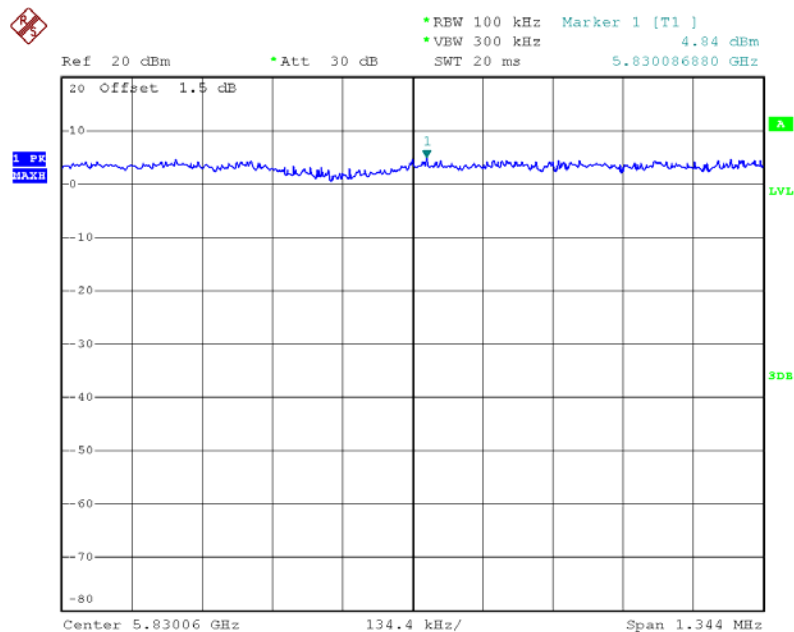
For P to M

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5785 MHz / Mode 5



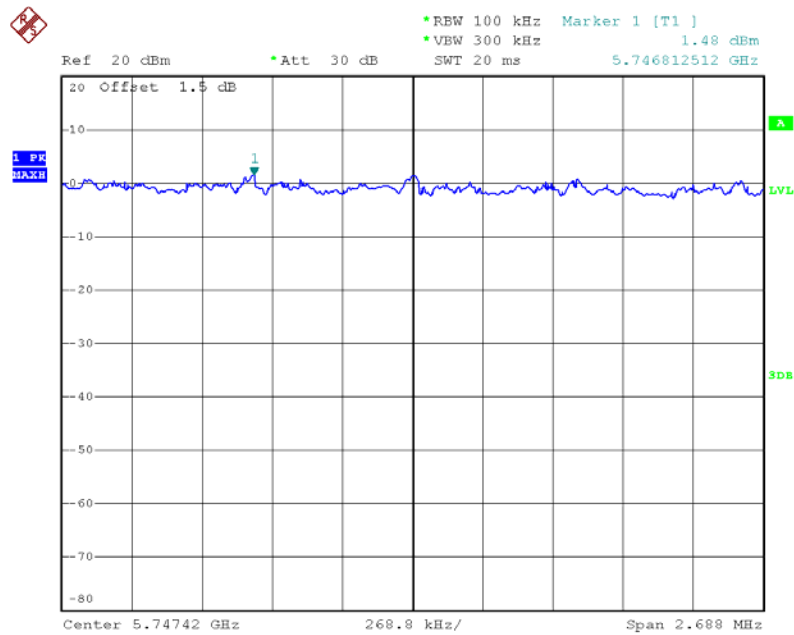
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Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5830 MHz / Mode 5



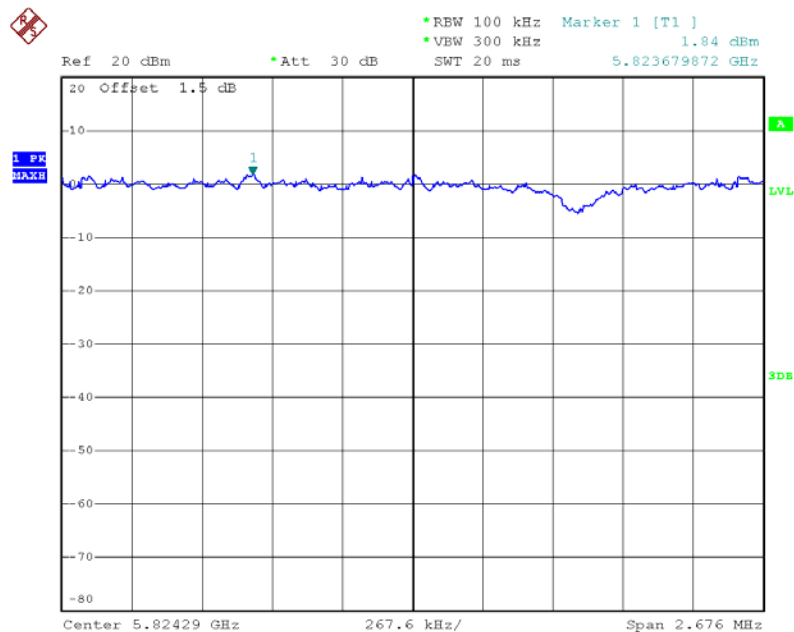
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 5



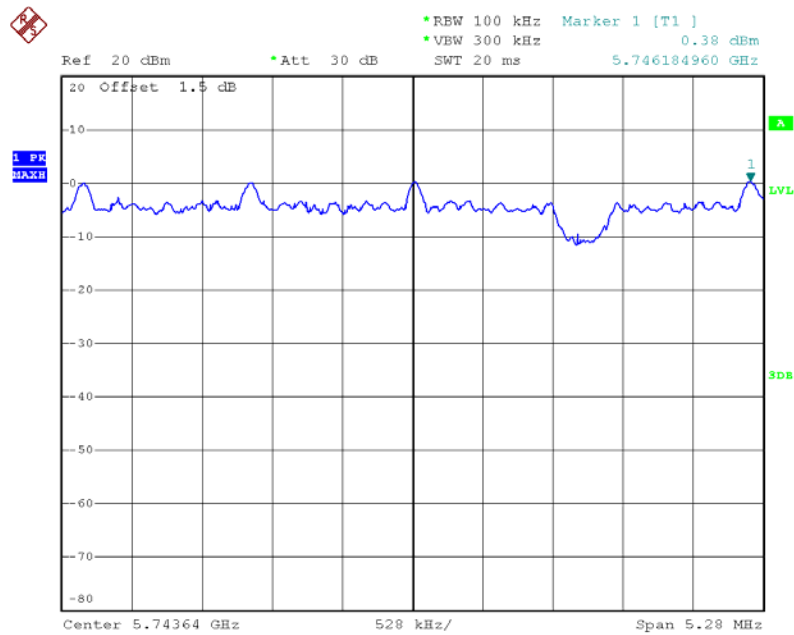
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5825 MHz / Mode 5



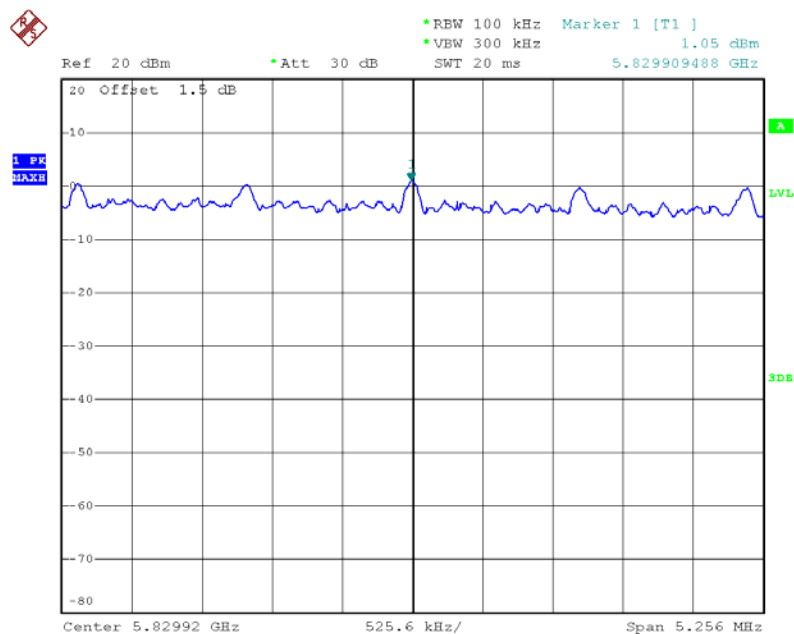
Date: 24.JUL.2012 16:21:33

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 5



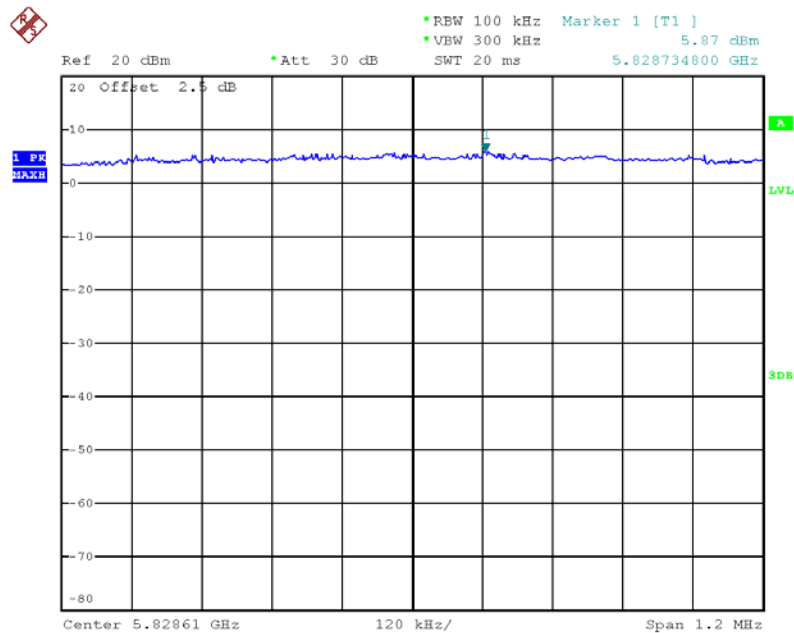
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5825 MHz / Mode 5



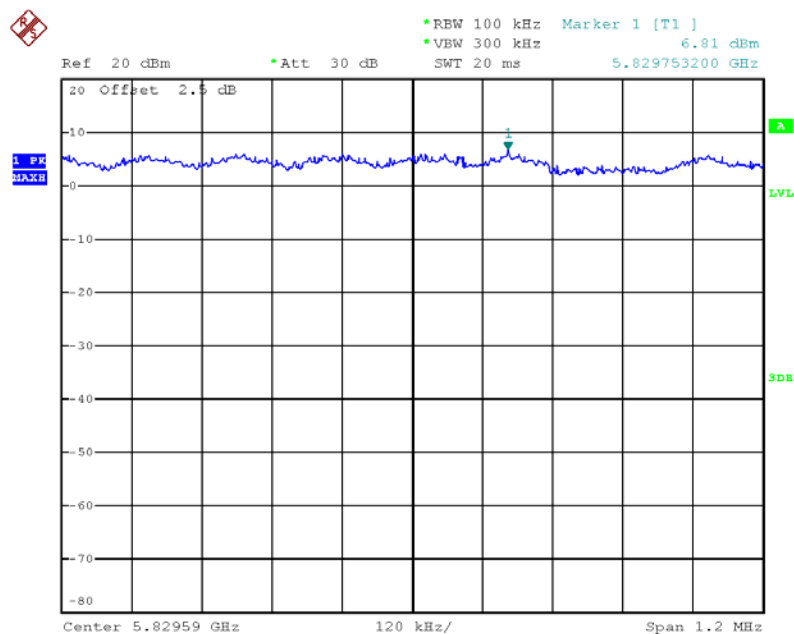
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5830 MHz / Mode 5



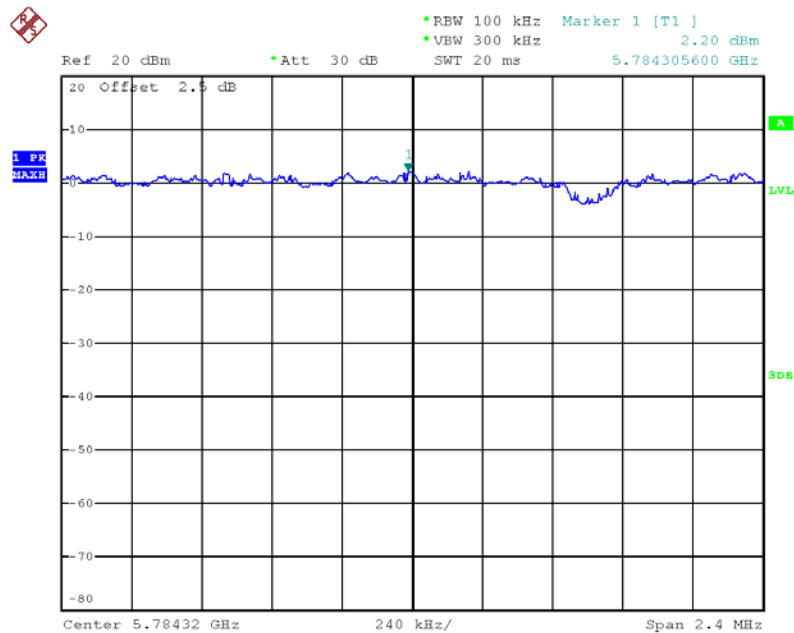
Date: 9.AUG.2012 22:10:43

Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5830 MHz / Mode 5



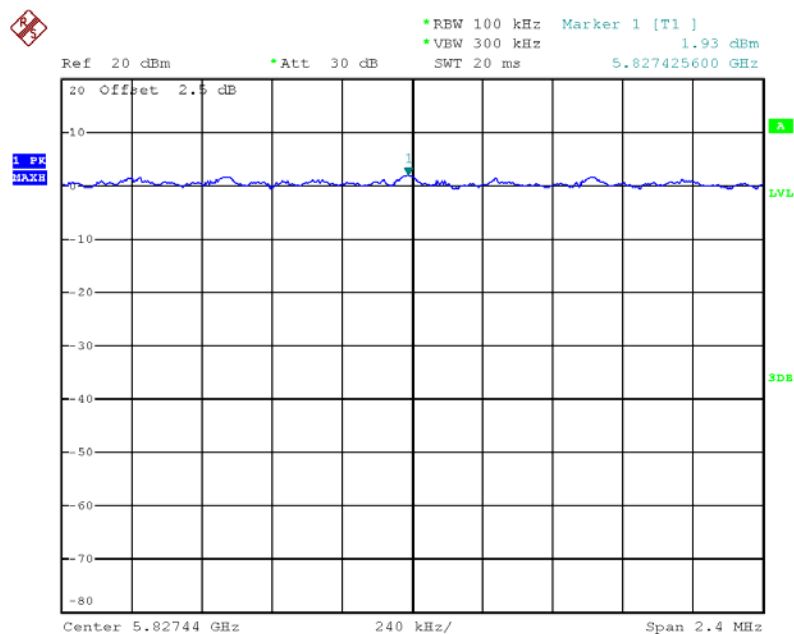
Date: 9.AUG.2012 22:12:51

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5785 MHz / Mode 5



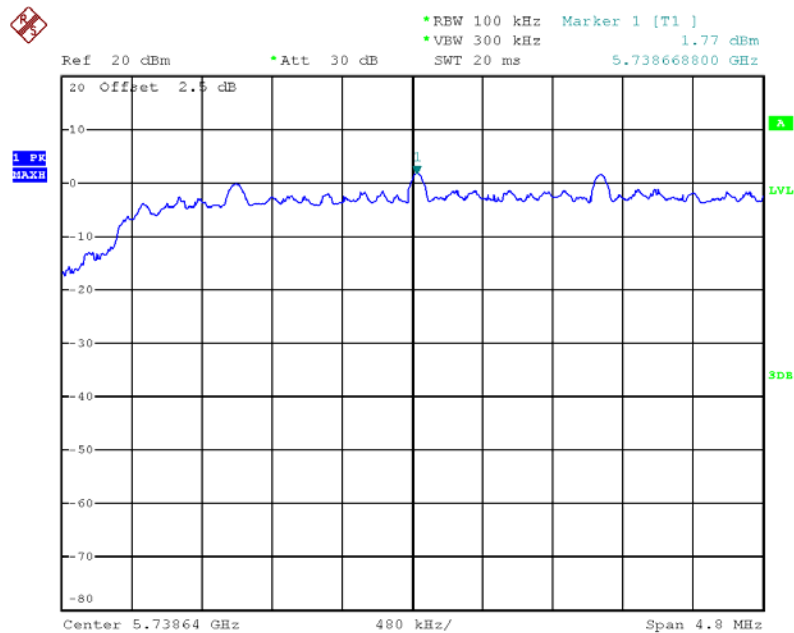
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5825 MHz / Mode 5



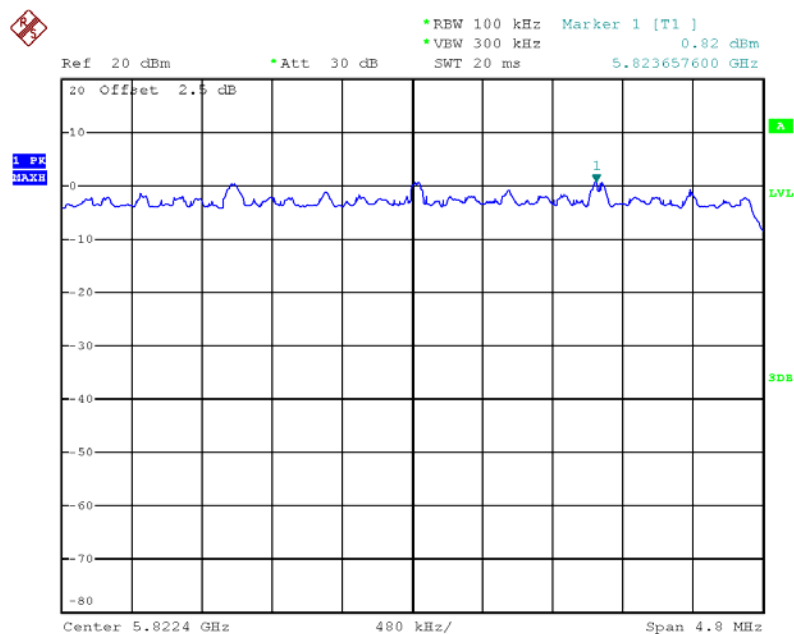
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Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 5



Date: 9.AUG.2012 22:28:28

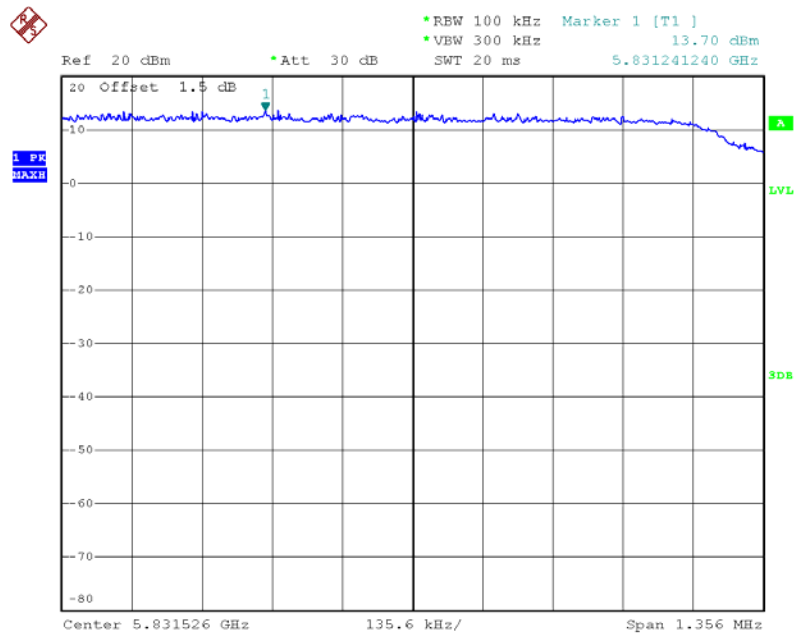
Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5825 MHz / Mode 5



Date: 9.AUG.2012 22:33:07

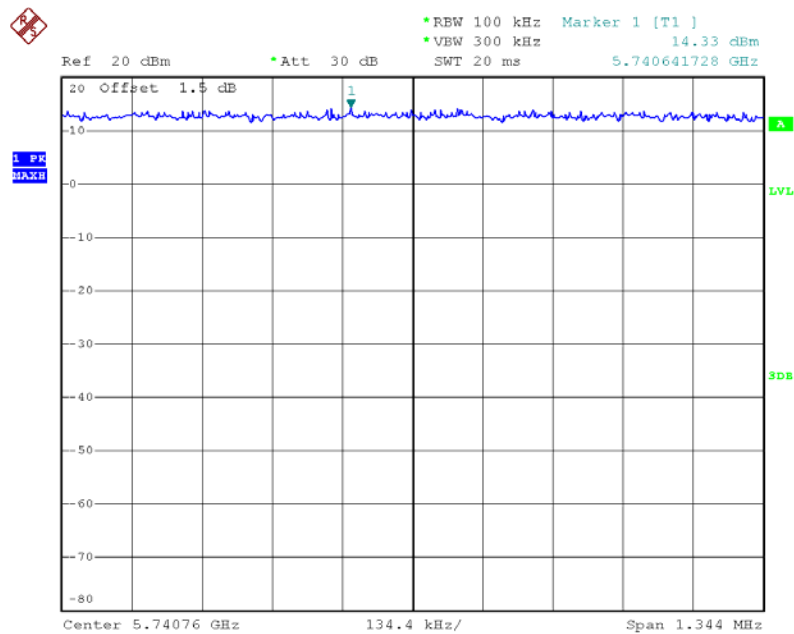
For P to P

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 / 5830 MHz / Mode 5



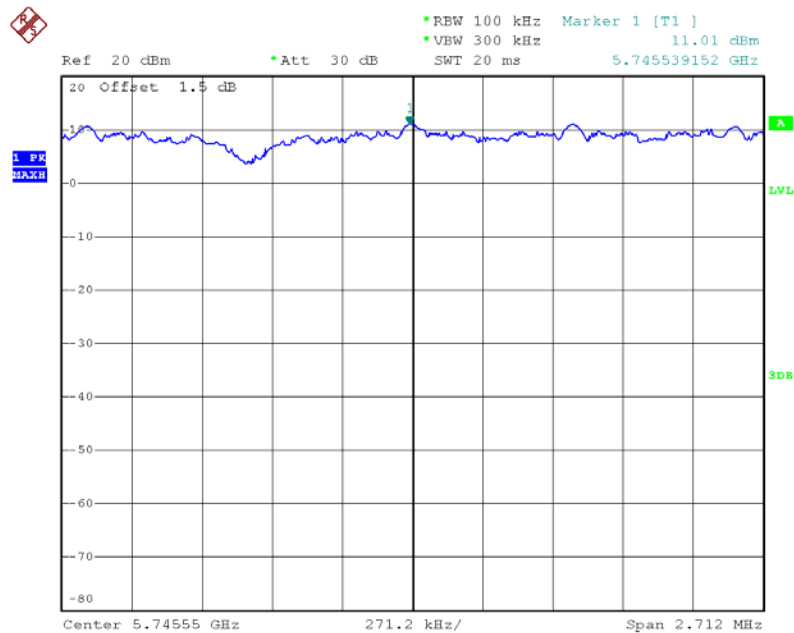
Date: 24.JUL.2012 15:41:45

Power Density Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 3 / 5740 MHz / Mode 5



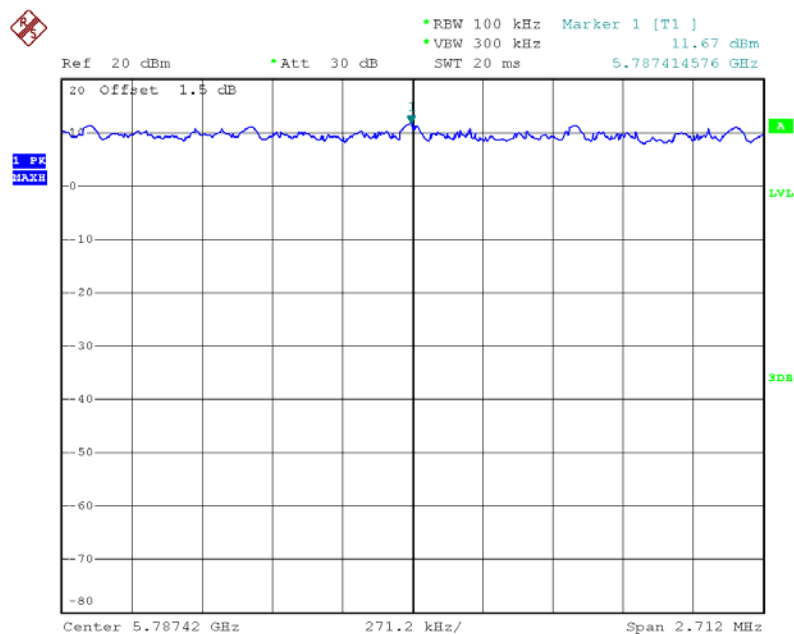
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 / 5745 MHz / Mode 5



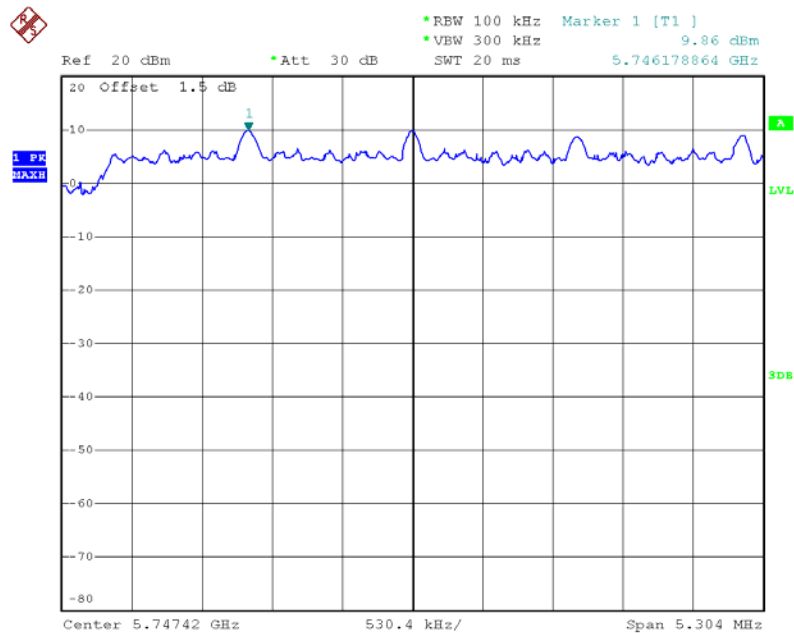
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Power Density Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 3 / 5785 MHz / Mode 5



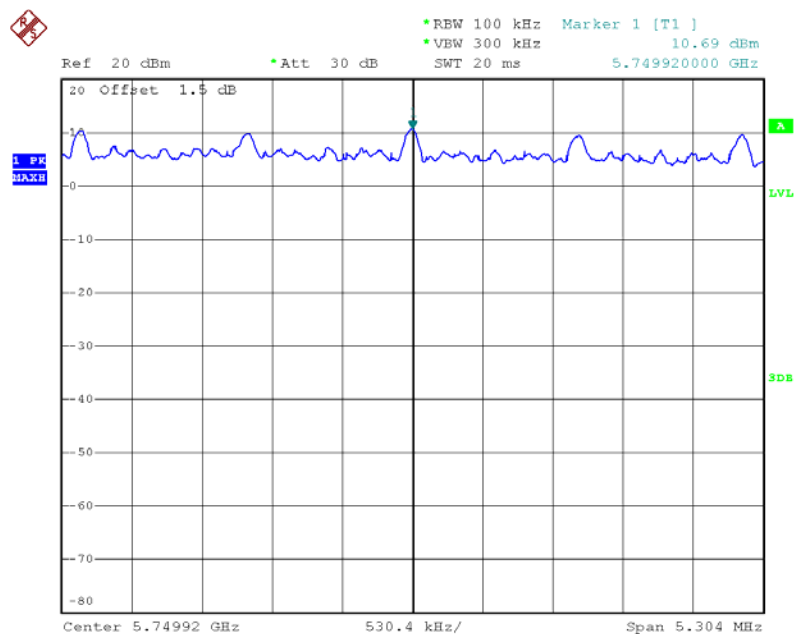
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Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5745 MHz / Mode 5



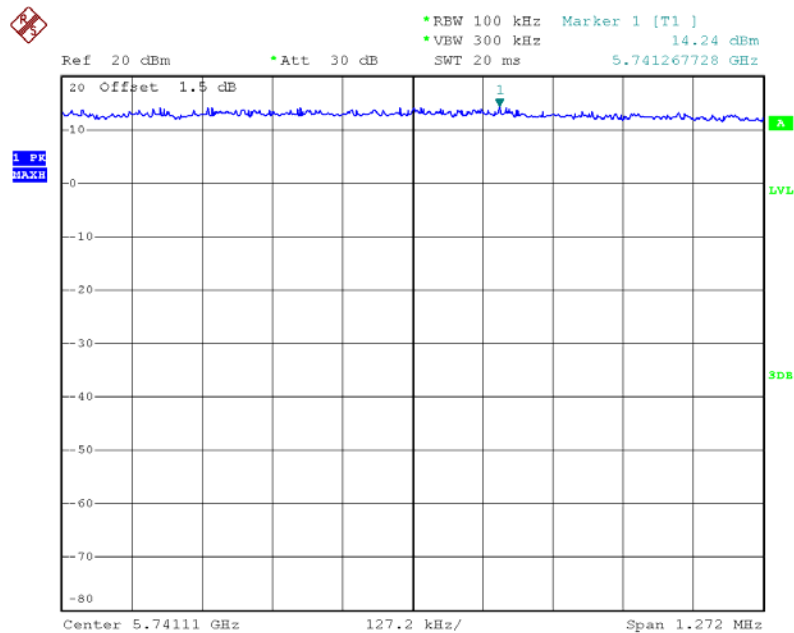
Date: 24.JUL.2012 14:47:16

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 3 / 5745 MHz / Mode 5



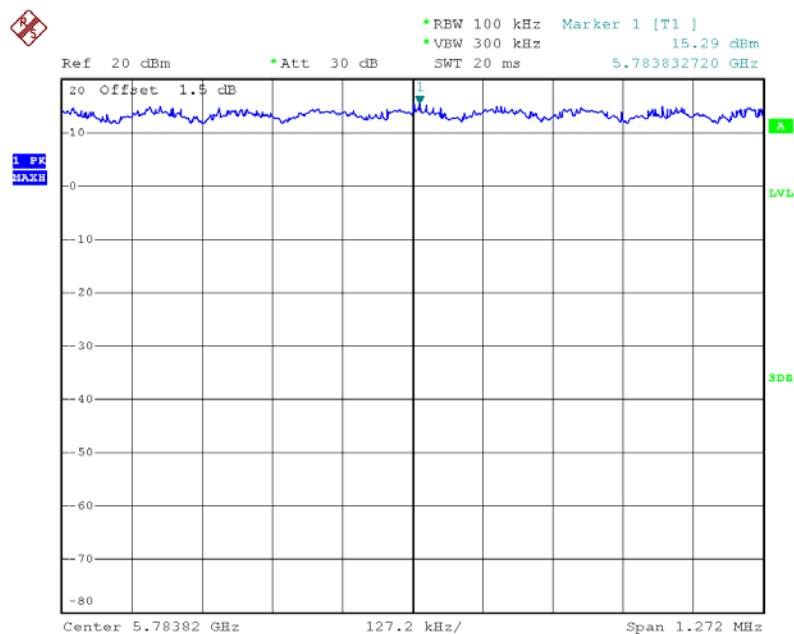
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 1 / 5740 MHz / Mode 5



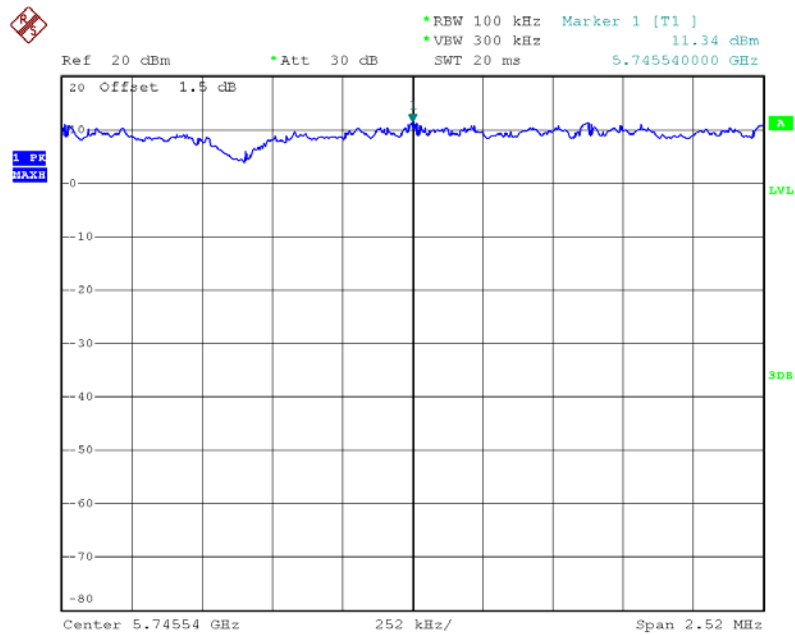
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Power Density Plot on Configuration IEEE 802.11a 5MHz / Chain 3 / 5785 MHz / Mode 5



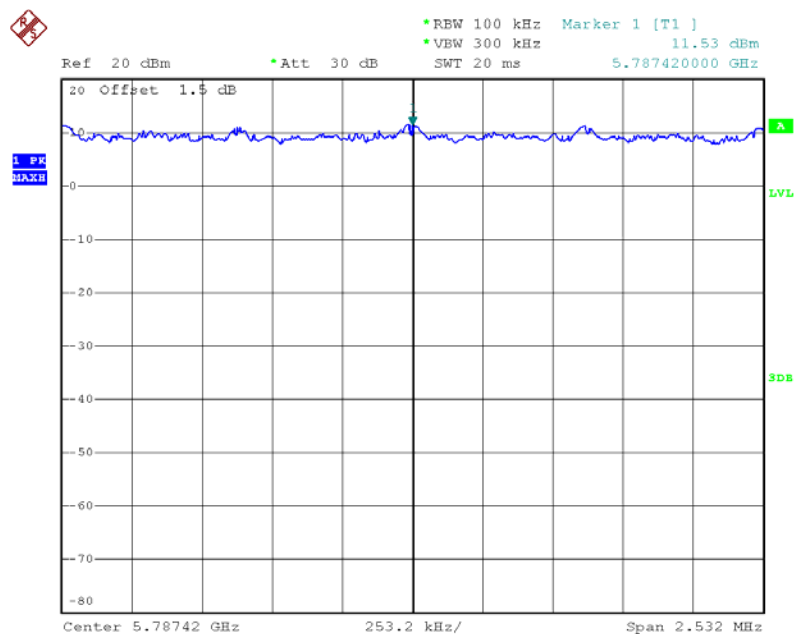
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Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 1 / 5745 MHz / Mode 5



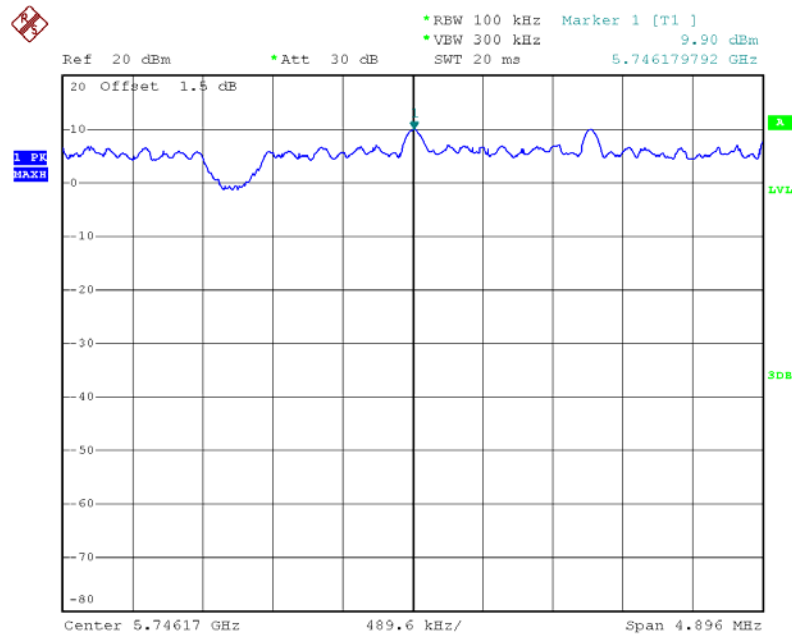
Date: 24.JUL.2012 16:40:05

Power Density Plot on Configuration IEEE 802.11a 10MHz / Chain 3 / 5785 MHz / Mode 5



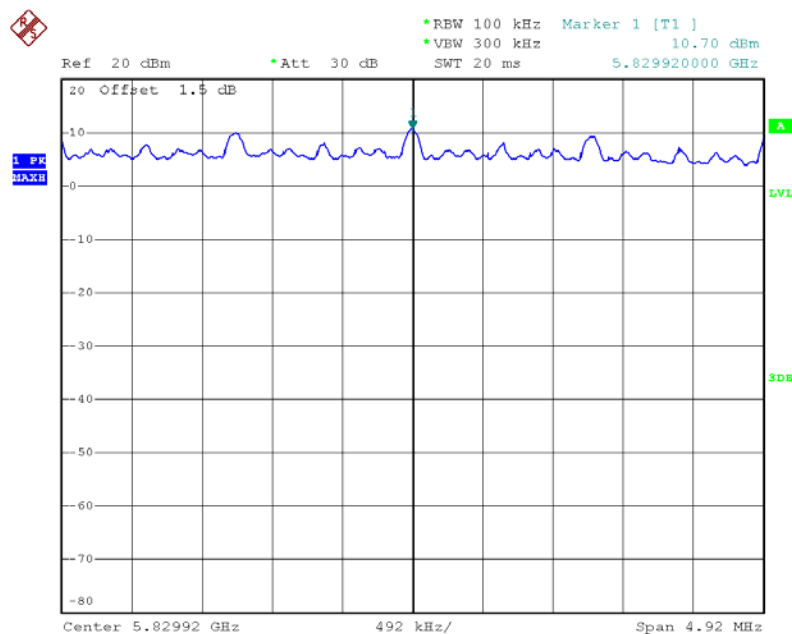
Date: 24.JUL.2012 16:38:12

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 1 / 5745 MHz / Mode 5



Date: 24.JUL.2012 14:45:13

Power Density Plot on Configuration IEEE 802.11a 20MHz / Chain 3 / 5825 MHz / Mode 5



Date: 24.JUL.2012 14:38:52

4.5. 6dB Spectrum Bandwidth Measurement

4.5.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.5.2. Measuring Instruments and Setting

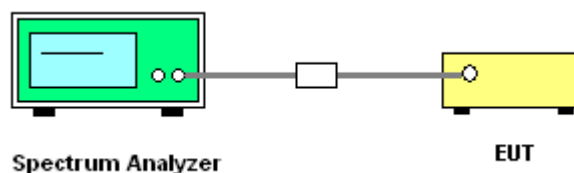
Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	1-5 % of the emission bandwidth (EBW)
VB	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB 558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 5.1.1 EBW Measurement Procedure
3. Multiple antenna systems was performed in accordance with KDB 662911 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. Measured the spectrum width with power higher than 6dB below carrier.

4.5.4. Test Setup Layout



4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of 6dB Spectrum Bandwidth

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 1 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.52	5.78	500.00	Complies
157	5785 MHz	4.10	5.18	500.00	Complies
166	5830 MHz	2.20	4.72	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.68	500.00	Complies
157	5785 MHz	8.60	9.68	500.00	Complies
165	5825 MHz	8.48	9.76	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.64	17.68	500.00	Complies
157	5785 MHz	17.76	18.96	500.00	Complies
165	5825 MHz	16.64	24.08	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.16	36.00	500.00	Complies
159	5795MHz	36.60	38.64	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	3.58	5.10	500.00	Complies
157	5785 MHz	3.88	5.04	500.00	Complies
166	5830 MHz	3.96	5.14	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	7.72	9.40	500.00	Complies
157	5785 MHz	7.76	9.28	500.00	Complies
165	5825 MHz	7.28	9.32	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.20	16.72	500.00	Complies
157	5785 MHz	13.76	16.40	500.00	Complies
165	5825 MHz	13.76	16.40	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11 n / a
Test Mode	Mode 1 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.60	5.84	500.00	Complies
157	5785 MHz	4.58	5.82	500.00	Complies
166	5830 MHz	4.22	5.34	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.76	500.00	Complies
157	5785 MHz	8.44	9.84	500.00	Complies
165	5825 MHz	9.12	10.84	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.92	17.76	500.00	Complies
157	5785 MHz	8.00	17.04	500.00	Complies
165	5825 MHz	16.88	17.76	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	31.80	35.16	500.00	Complies
159	5795 MHz	31.92	35.04	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.22	5.26	500.00	Complies
157	5785 MHz	4.32	5.32	500.00	Complies
166	5830 MHz	4.32	5.32	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.40	9.68	500.00	Complies
157	5785 MHz	8.28	9.56	500.00	Complies
165	5825 MHz	8.48	9.68	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	15.84	500.00	Complies
157	5785 MHz	16.40	17.28	500.00	Complies
165	5825 MHz	16.48	17.20	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 2 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.52	5.78	500.00	Complies
157	5785 MHz	4.10	5.18	500.00	Complies
166	5830 MHz	2.20	4.72	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.68	500.00	Complies
157	5785 MHz	8.60	9.68	500.00	Complies
165	5825 MHz	8.48	9.76	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.64	17.68	500.00	Complies
157	5785 MHz	17.76	18.96	500.00	Complies
165	5825 MHz	16.64	24.08	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.16	36.00	500.00	Complies
159	5795MHz	36.60	38.64	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	3.58	5.10	500.00	Complies
157	5785 MHz	3.88	5.04	500.00	Complies
166	5830 MHz	3.96	5.14	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	7.72	9.40	500.00	Complies
157	5785 MHz	7.76	9.28	500.00	Complies
165	5825 MHz	7.28	9.32	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.20	16.72	500.00	Complies
157	5785 MHz	13.76	16.40	500.00	Complies
165	5825 MHz	13.76	16.40	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11 n / a
Test Mode	Mode 2 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.60	5.84	500.00	Complies
157	5785 MHz	4.58	5.82	500.00	Complies
166	5830 MHz	4.22	5.34	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.76	500.00	Complies
157	5785 MHz	8.44	9.84	500.00	Complies
165	5825 MHz	9.12	10.84	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.92	17.76	500.00	Complies
157	5785 MHz	8.00	17.04	500.00	Complies
165	5825 MHz	16.88	17.76	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	31.80	35.16	500.00	Complies
159	5795 MHz	31.92	35.04	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.22	5.26	500.00	Complies
157	5785 MHz	4.32	5.32	500.00	Complies
166	5830 MHz	4.32	5.32	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.40	9.68	500.00	Complies
157	5785 MHz	8.28	9.56	500.00	Complies
165	5825 MHz	8.48	9.68	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	15.84	500.00	Complies
157	5785 MHz	16.40	17.28	500.00	Complies
165	5825 MHz	16.48	17.20	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 3 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.60	5.84	500.00	Complies
157	5785 MHz	4.58	5.82	500.00	Complies
166	5830 MHz	4.22	5.34	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.76	500.00	Complies
157	5785 MHz	8.44	9.84	500.00	Complies
165	5825 MHz	9.12	10.84	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.56	18.16	500.00	Complies
157	5785 MHz	16.64	18.72	500.00	Complies
165	5825 MHz	16.56	18.48	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.76	37.56	500.00	Complies
159	5795MHz	36.36	38.76	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.22	5.26	500.00	Complies
157	5785 MHz	4.32	5.32	500.00	Complies
166	5830 MHz	4.32	5.32	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.40	9.68	500.00	Complies
157	5785 MHz	8.28	9.56	500.00	Complies
165	5825 MHz	8.48	9.68	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	15.84	500.00	Complies
157	5785 MHz	16.40	17.28	500.00	Complies
165	5825 MHz	16.48	17.20	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11 n / a
Test Mode	Mode 3 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.60	5.84	500.00	Complies
157	5785 MHz	4.58	5.82	500.00	Complies
166	5830 MHz	4.22	5.34	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.76	500.00	Complies
157	5785 MHz	8.44	9.84	500.00	Complies
165	5825 MHz	9.12	10.84	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.92	17.76	500.00	Complies
157	5785 MHz	8.00	17.04	500.00	Complies
165	5825 MHz	16.88	17.76	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	13.84	15.84	500.00	Complies
159	5795 MHz	16.40	17.28	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.22	5.26	500.00	Complies
157	5785 MHz	4.32	5.32	500.00	Complies
166	5830 MHz	4.32	5.32	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.40	9.68	500.00	Complies
157	5785 MHz	8.28	9.56	500.00	Complies
165	5825 MHz	8.48	9.68	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	15.84	500.00	Complies
157	5785 MHz	16.40	17.28	500.00	Complies
165	5825 MHz	16.48	17.20	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 4 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.52	5.78	500.00	Complies
157	5785 MHz	4.10	5.18	500.00	Complies
166	5830 MHz	2.20	4.72	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.68	500.00	Complies
157	5785 MHz	8.60	9.68	500.00	Complies
165	5825 MHz	8.48	9.76	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.64	17.68	500.00	Complies
157	5785 MHz	17.76	18.96	500.00	Complies
165	5825 MHz	16.64	24.08	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.16	36.00	500.00	Complies
159	5795MHz	36.60	38.64	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	3.58	5.10	500.00	Complies
157	5785 MHz	3.88	5.04	500.00	Complies
166	5830 MHz	3.96	5.14	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	7.72	9.40	500.00	Complies
157	5785 MHz	7.76	9.28	500.00	Complies
165	5825 MHz	7.28	9.32	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.20	16.72	500.00	Complies
157	5785 MHz	13.76	16.40	500.00	Complies
165	5825 MHz	13.76	16.40	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11 n / a
Test Mode	Mode 4 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.60	5.84	500.00	Complies
157	5785 MHz	4.58	5.82	500.00	Complies
166	5830 MHz	4.22	5.34	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.12	10.76	500.00	Complies
157	5785 MHz	8.44	9.84	500.00	Complies
165	5825 MHz	9.12	10.84	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.92	17.76	500.00	Complies
157	5785 MHz	8.00	17.04	500.00	Complies
165	5825 MHz	16.88	17.76	500.00	Complies

Configuration IEEE 802.11n MCS0 40MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	31.80	35.16	500.00	Complies
159	5795 MHz	31.92	35.04	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.22	5.26	500.00	Complies
157	5785 MHz	4.32	5.32	500.00	Complies
166	5830 MHz	4.32	5.32	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.40	9.68	500.00	Complies
157	5785 MHz	8.28	9.56	500.00	Complies
165	5825 MHz	8.48	9.68	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 2 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	15.84	500.00	Complies
157	5785 MHz	16.40	17.28	500.00	Complies
165	5825 MHz	16.48	17.20	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11n / a
Test Mode	Mode 5 / P to M		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.48	5.72	500.00	Complies
157	5785 MHz	4.54	5.68	500.00	Complies
166	5830 MHz	4.48	5.68	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.96	10.40	500.00	Complies
157	5785 MHz	8.88	10.48	500.00	Complies
165	5825 MHz	8.92	10.36	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.60	18.48	500.00	Complies
157	5785 MHz	17.60	18.56	500.00	Complies
165	5825 MHz	17.52	18.56	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.04	5.18	500.00	Complies
157	5785 MHz	4.06	5.24	500.00	Complies
166	5830 MHz	4.16	5.26	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	8.20	9.60	500.00	Complies
157	5785 MHz	8.12	9.56	500.00	Complies
166	5830 MHz	8.20	9.48	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.16	17.12	500.00	Complies
157	5785 MHz	16.08	17.04	500.00	Complies
165	5825 MHz	15.84	17.04	500.00	Complies

Temperature	23°C	Humidity	60%
Test Engineer	Robert Chang	Configurations	IEEE 802.11 n / a
Test Mode	Mode 5 / P to P		

Configuration IEEE 802.11n MCS0 5MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.48	6.18	500.00	Complies
157	5785 MHz	4.48	6.06	500.00	Complies
166	5830 MHz	4.52	6.00	500.00	Complies

Configuration IEEE 802.11n MCS0 10MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	9.04	11.68	500.00	Complies
157	5785 MHz	9.04	11.48	500.00	Complies
165	5825 MHz	9.04	11.20	500.00	Complies

Configuration IEEE 802.11n MCS0 20MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.68	20.32	500.00	Complies
157	5785 MHz	17.68	19.52	500.00	Complies
165	5825 MHz	17.68	19.28	500.00	Complies

Configuration IEEE 802.11a 5MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
148	5740 MHz	4.24	5.84	500.00	Complies
157	5785 MHz	4.24	5.68	500.00	Complies
166	5830 MHz	4.30	5.60	500.00	Complies

Configuration IEEE 802.11a 10MHz Chain 1 + Chain 3

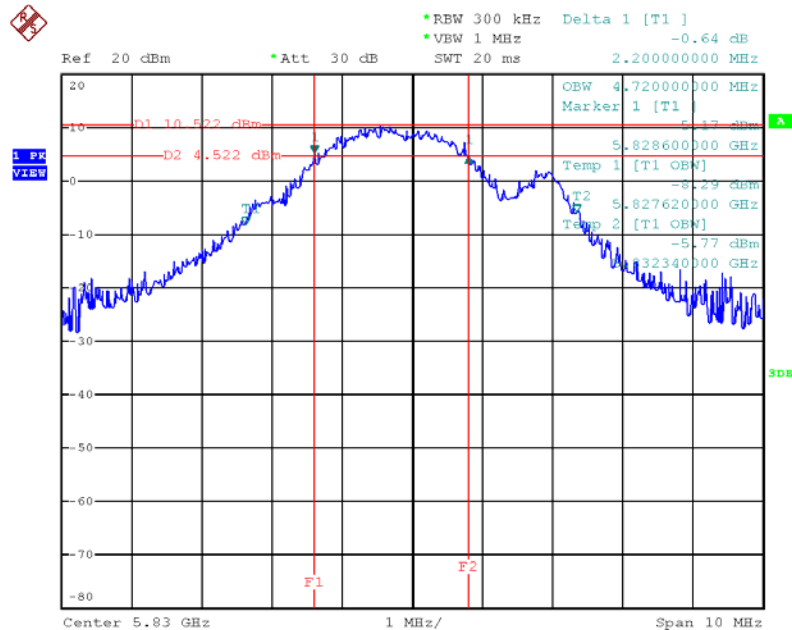
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149	5745 MHz	8.40	11.12	500.00	Complies
157	5785 MHz	8.44	10.64	500.00	Complies
165	5825 MHz	8.24	10.72	500.00	Complies

Configuration IEEE 802.11a 20MHz Chain 1 + Chain 3

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.32	18.96	500.00	Complies
157	5785 MHz	16.32	18.32	500.00	Complies
165	5825 MHz	16.40	18.16	500.00	Complies

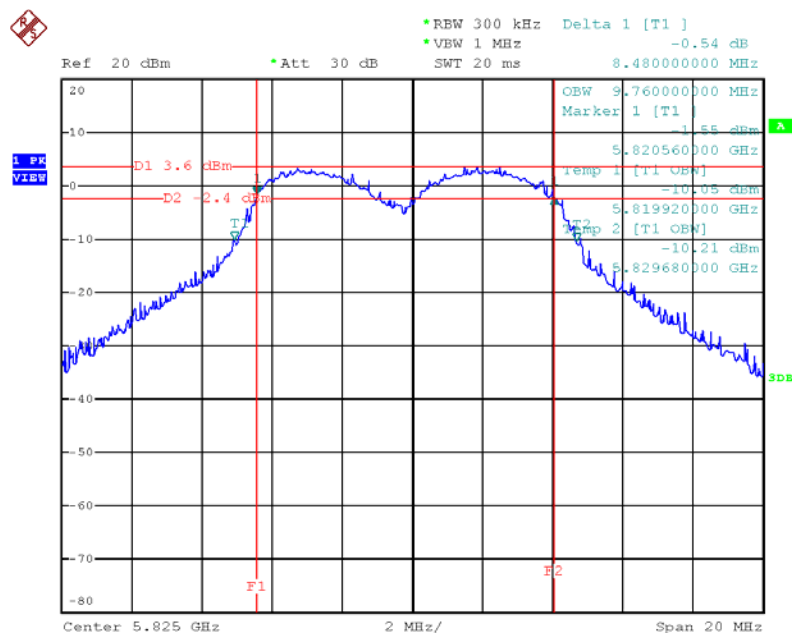
For P to M

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 1



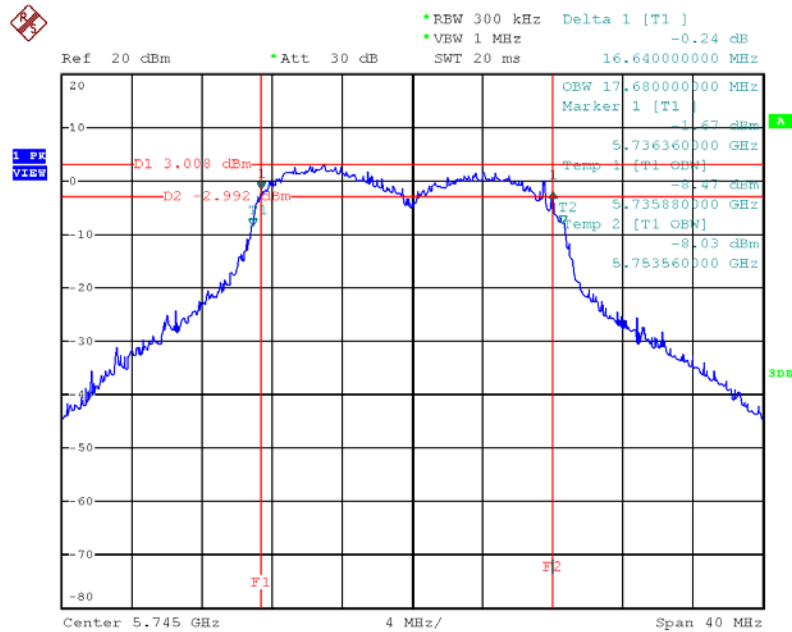
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5825MHz / Mode 1



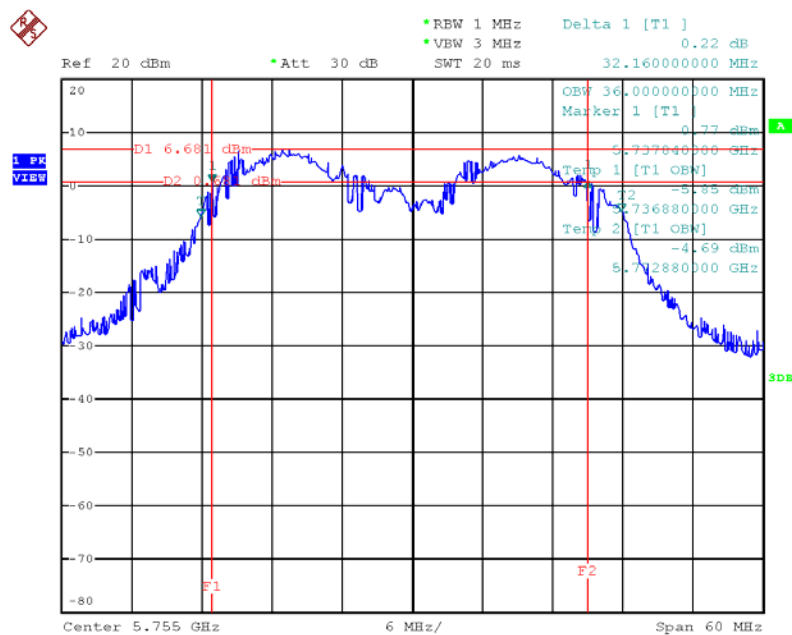
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 1



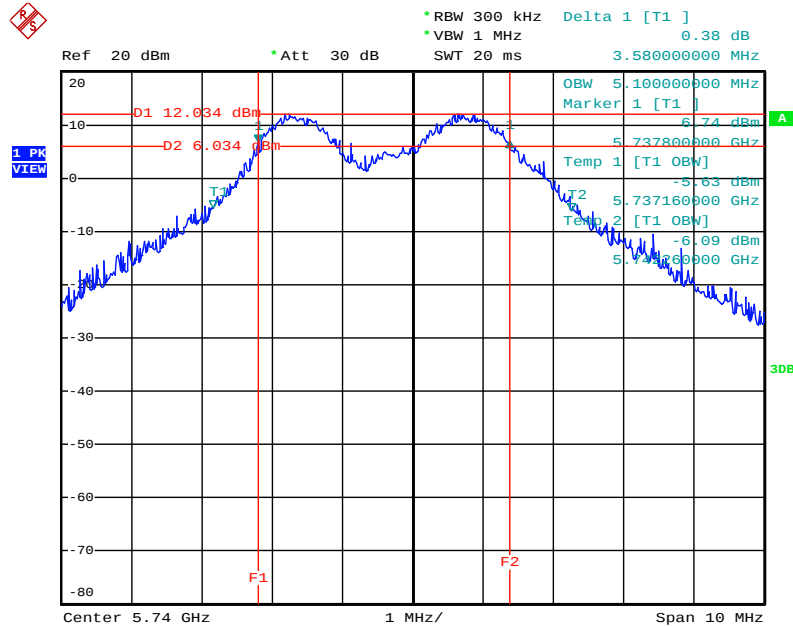
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 1



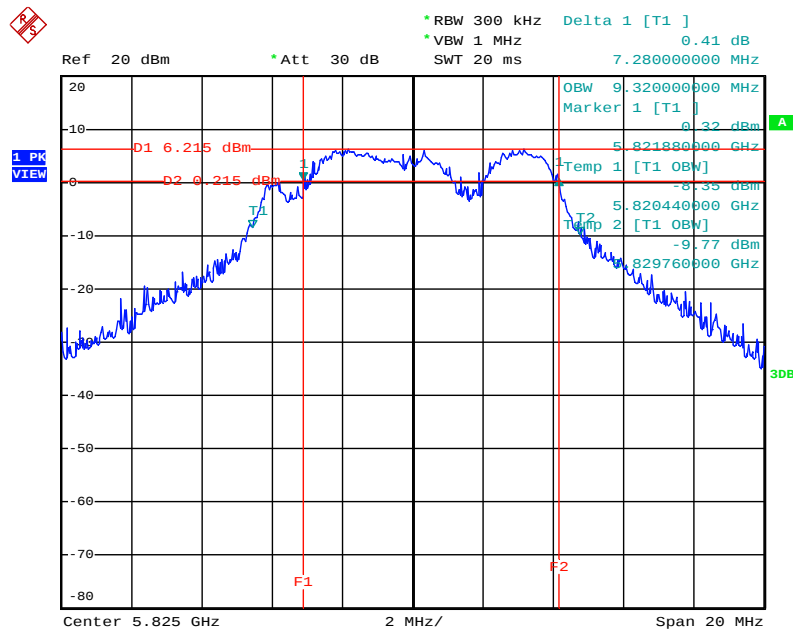
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 1



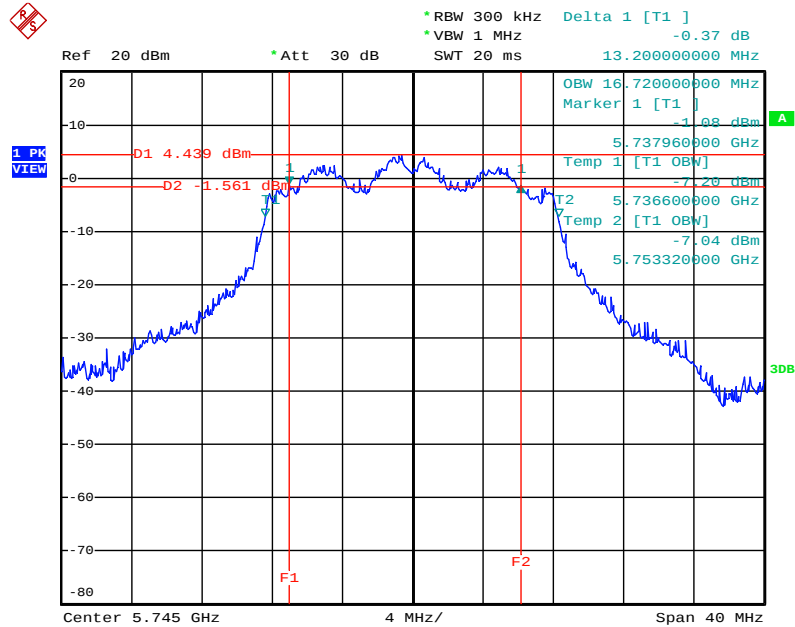
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5825 MHz / Mode 1



Date: 9.AUG.2012 21:26:11

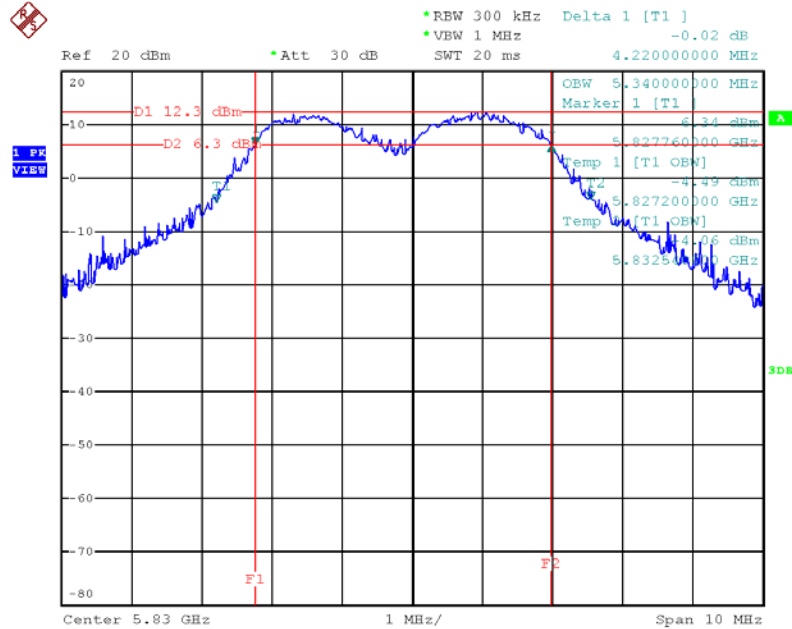
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 1



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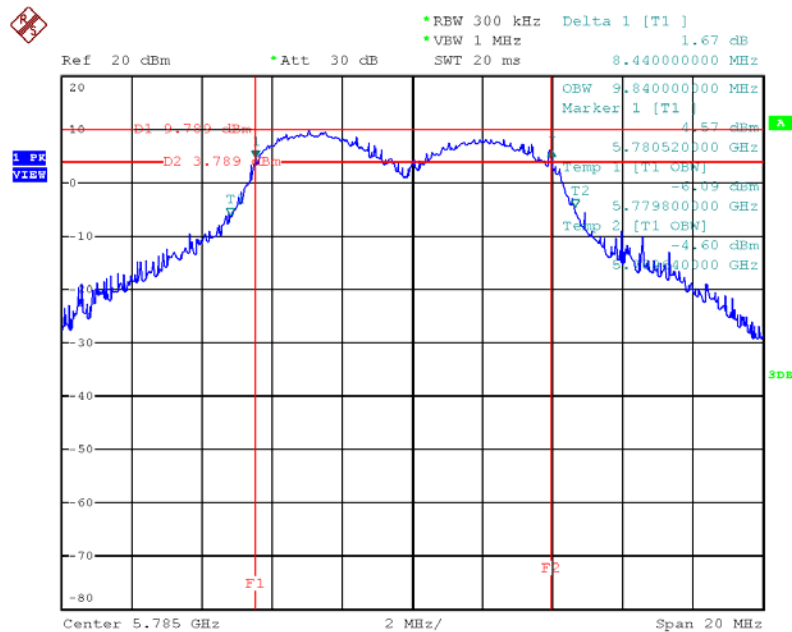
For P to P

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 1



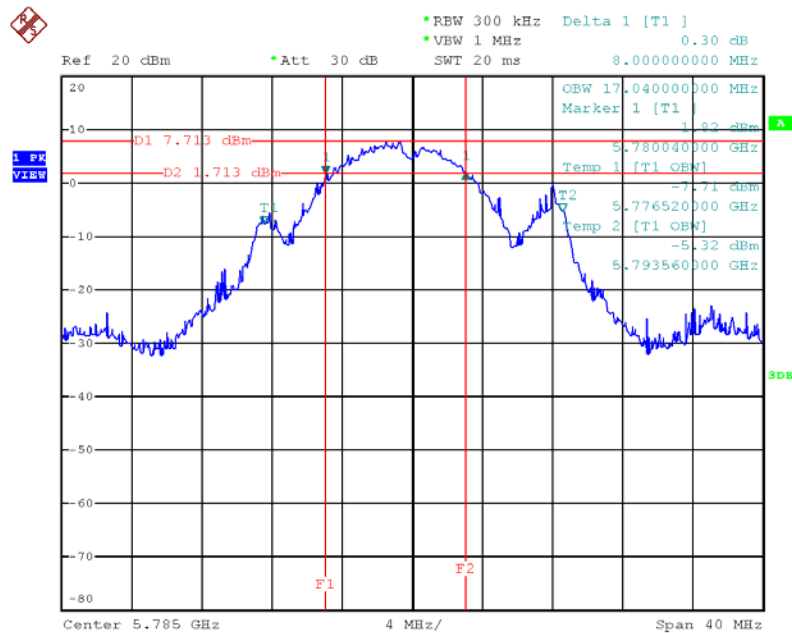
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 1



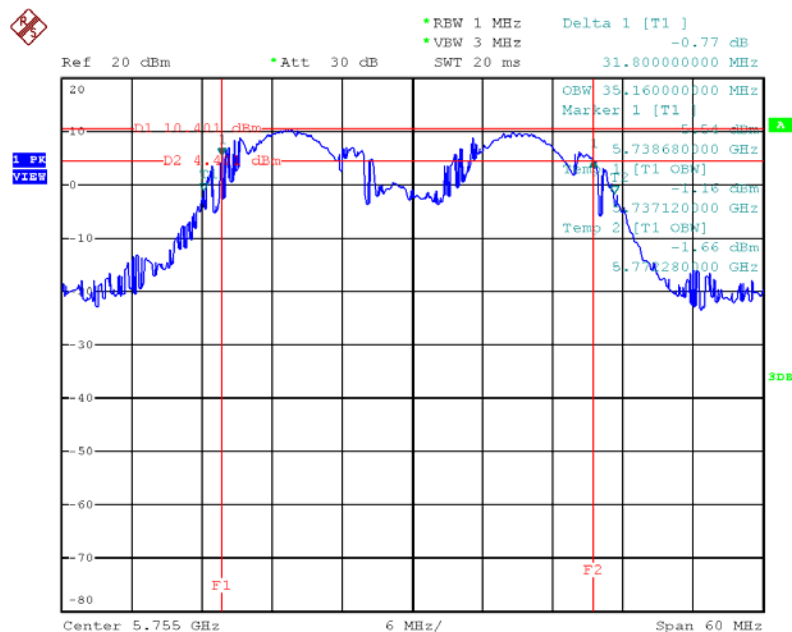
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 1



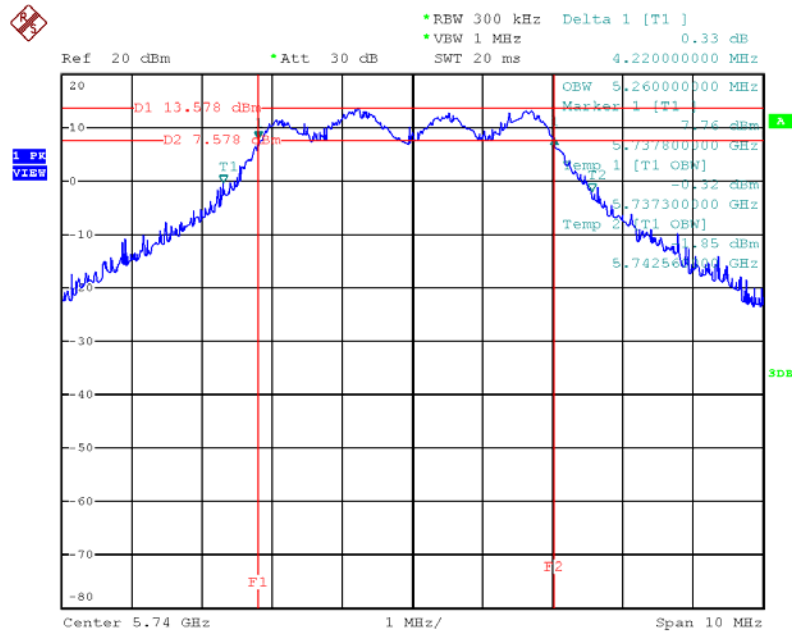
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 1



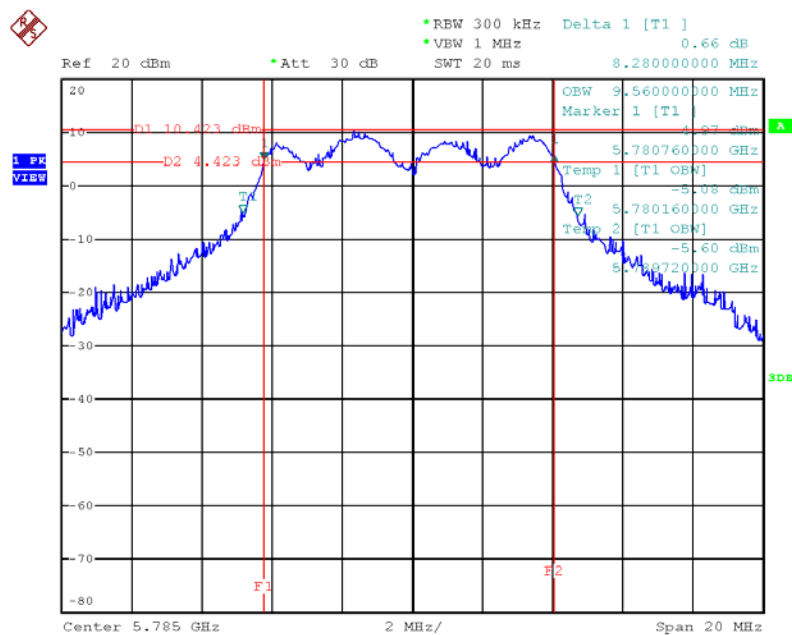
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 1



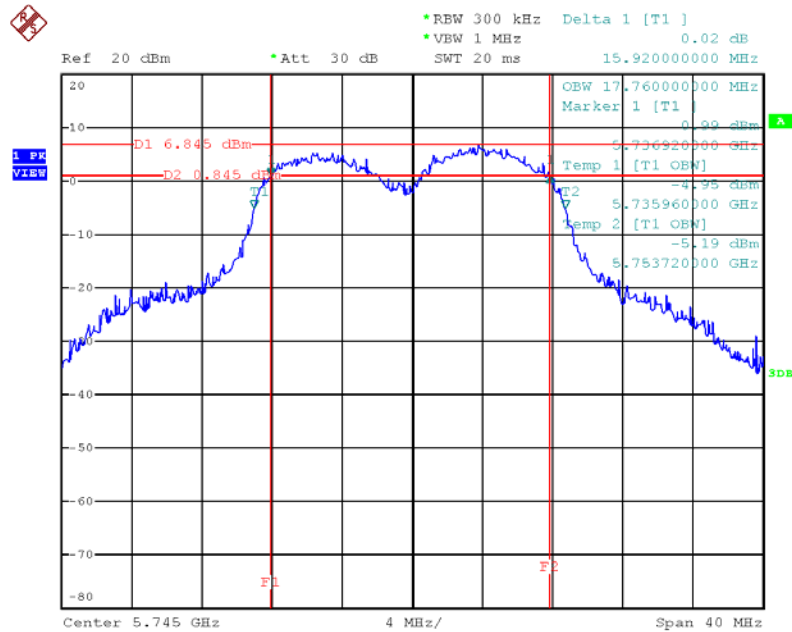
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5785 MHz / Mode 1



Date: 21.JUL.2012 06:36:35

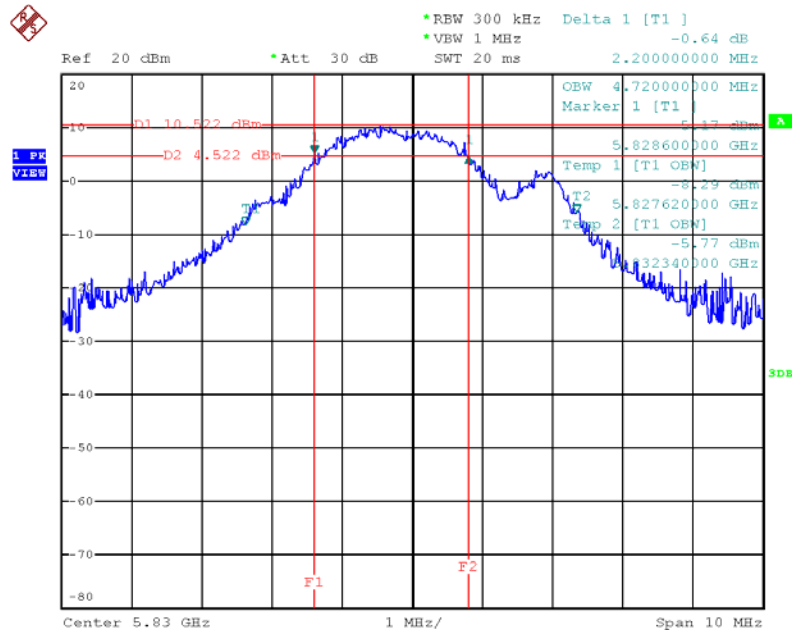
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745 MHz / Mode 1



Date: 22.JUL.2012 10:42:26

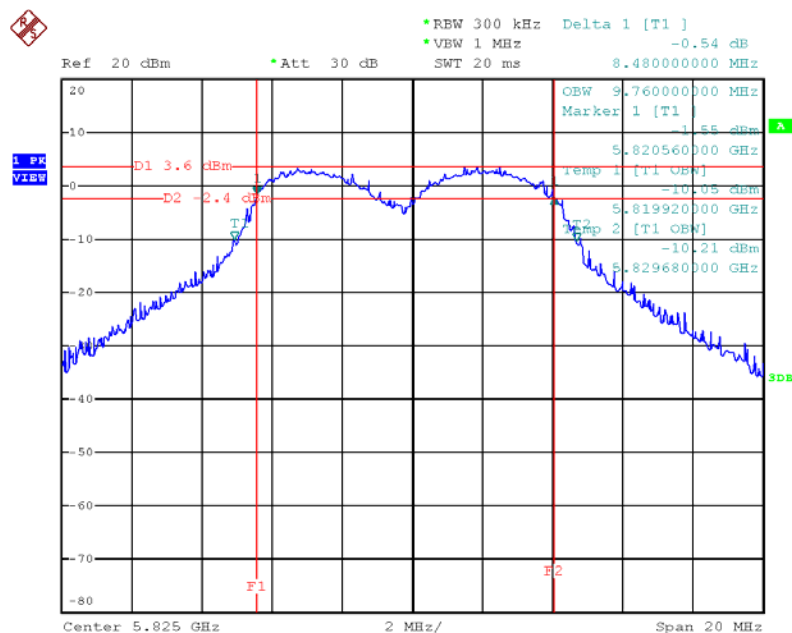
For P to M

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 2



Date: 22.JUL.2012 10:20:17

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5825MHz / Mode 2



Date: 22.JUL.2012 10:35:21



*RBW 300 kHz
 *VEW 1 MHz
 Delta 1 [T1]
 -0.24 dB
 Ref 20 dBm
 *Att 30 dB
 SWT 20 ms
 16.640000000 MHz

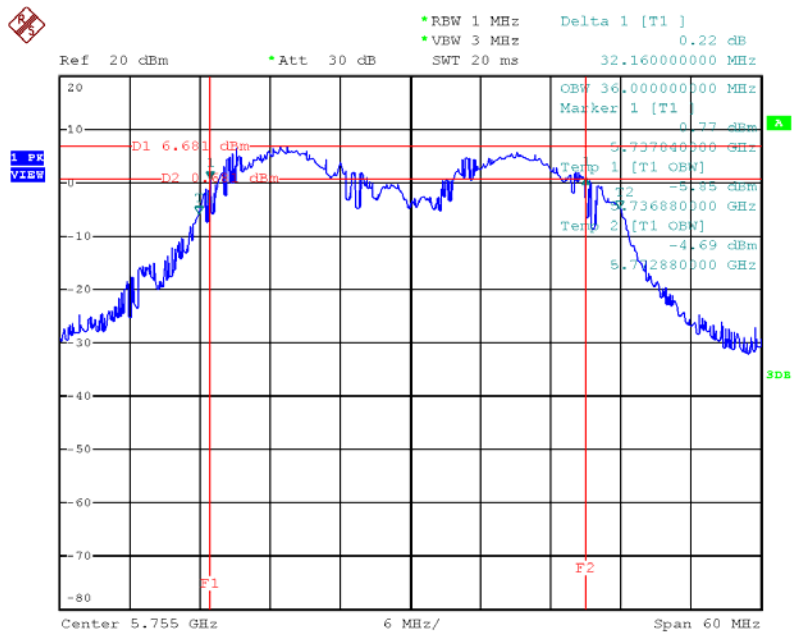
OBW 17.680000000 MHz
 Marker 1 [T1]
 -1.67 dBm
 5.736360000 GHz
 Temp 1 [T1 OBW]
 -8.47 dBm
 T2
 5.735880000 GHz
 Temp 2 [T1 OBW]
 -8.03 dBm
 5.753560000 GHz

D1 3.008 dBm
 D2 -2.992 dBm

F1
 F2

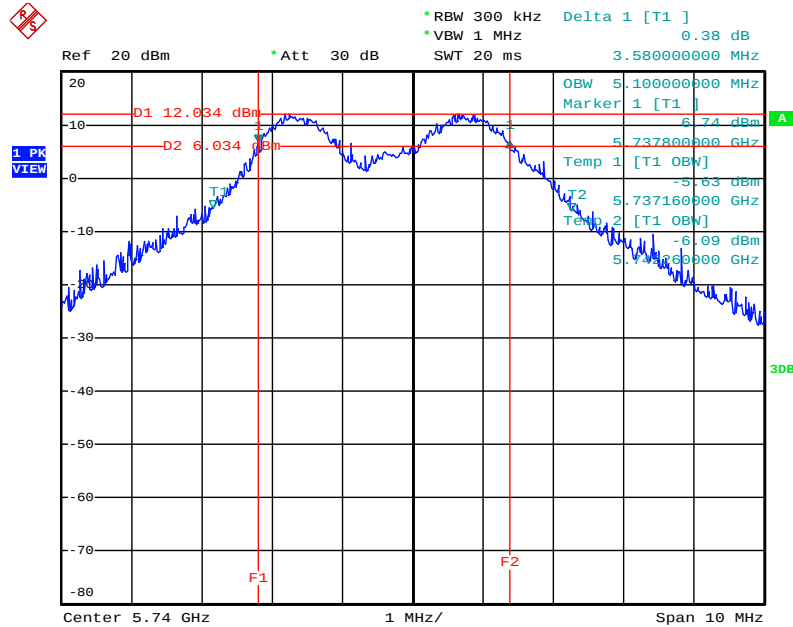
Center 5.745 GHz
 4 MHz/
 Span 40 MHz

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 2



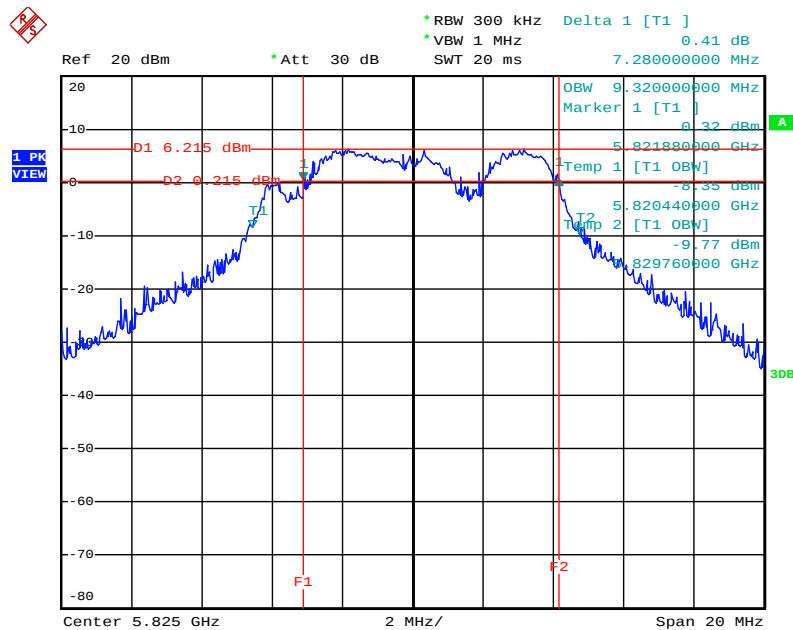
Date: 21.JUL.2012 06:53:32

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 2



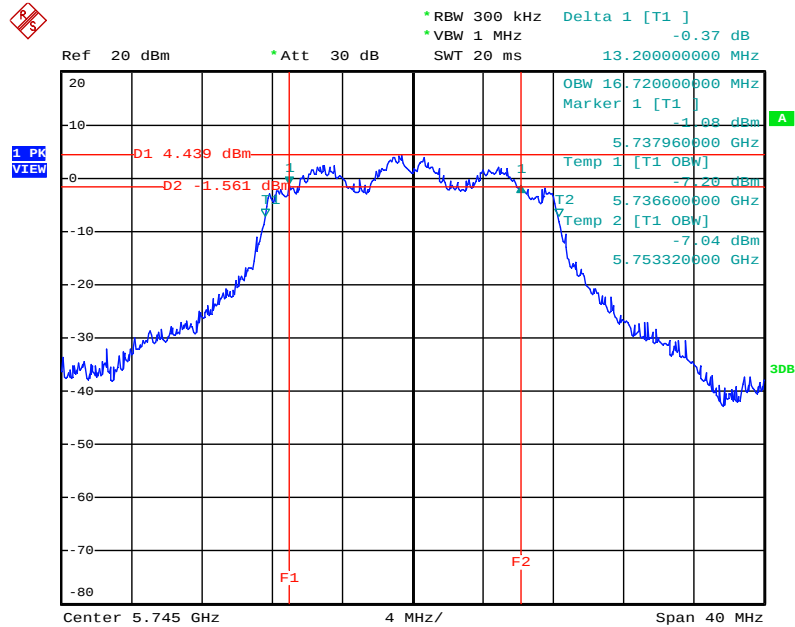
Date: 9.AUG.2012 21:29:11

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5825 MHz / Mode 2



Date: 9.AUG.2012 21:26:11

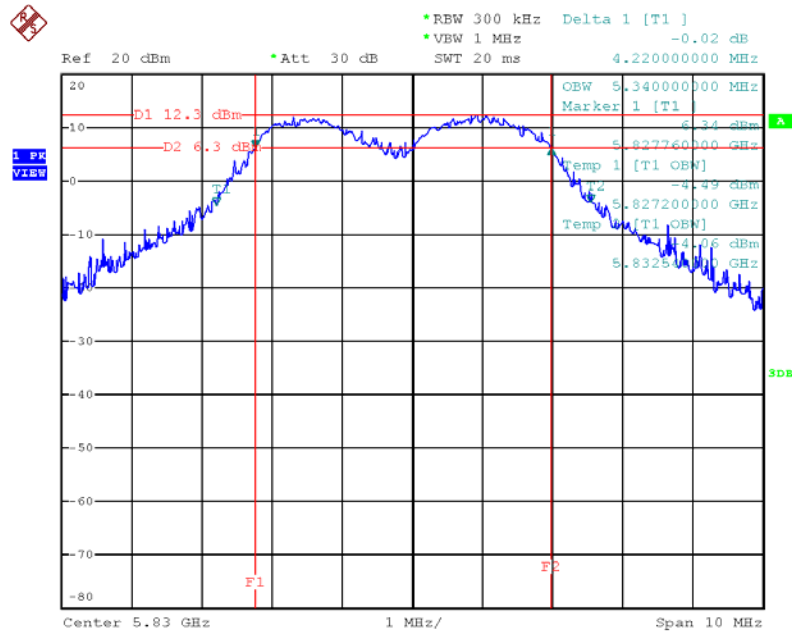
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 2



Date: 9.AUG.2012 21:14:12

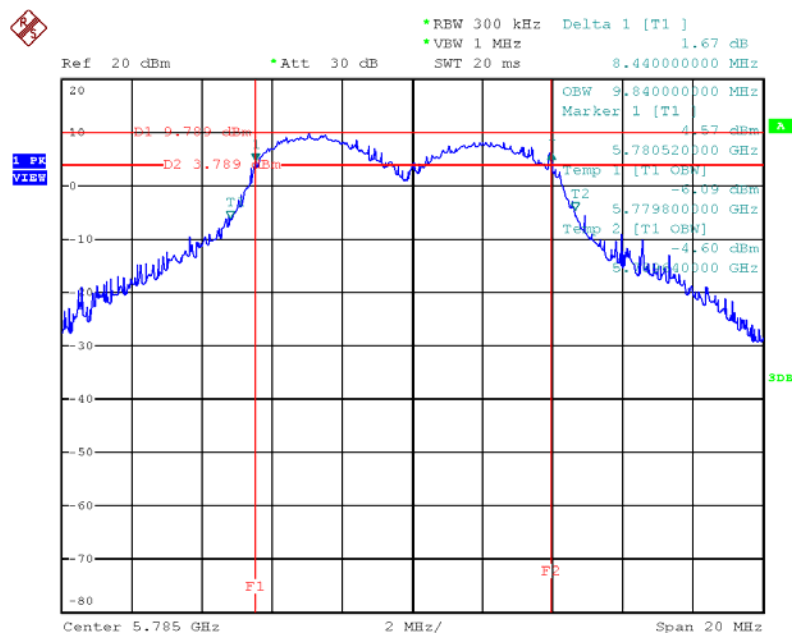
For P to P

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 2



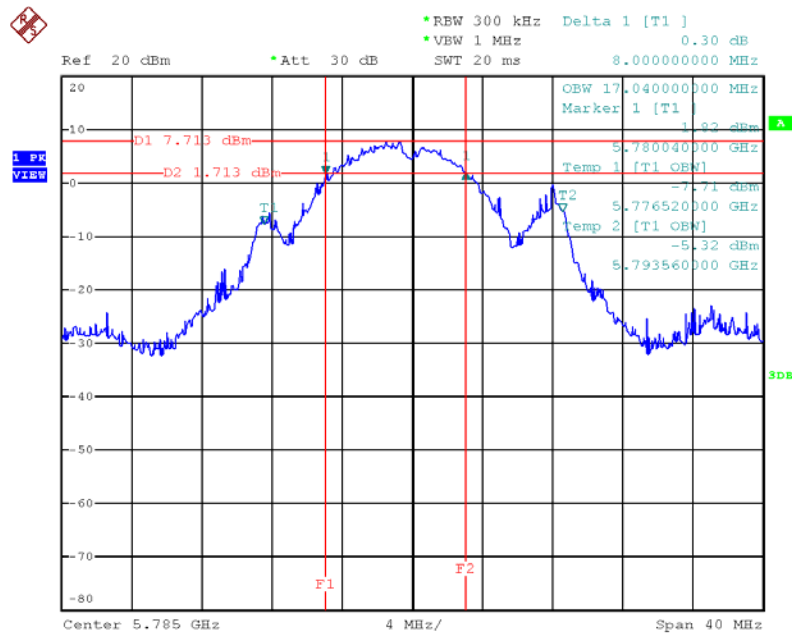
Date: 21.JUL.2012 06:23:40

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 2



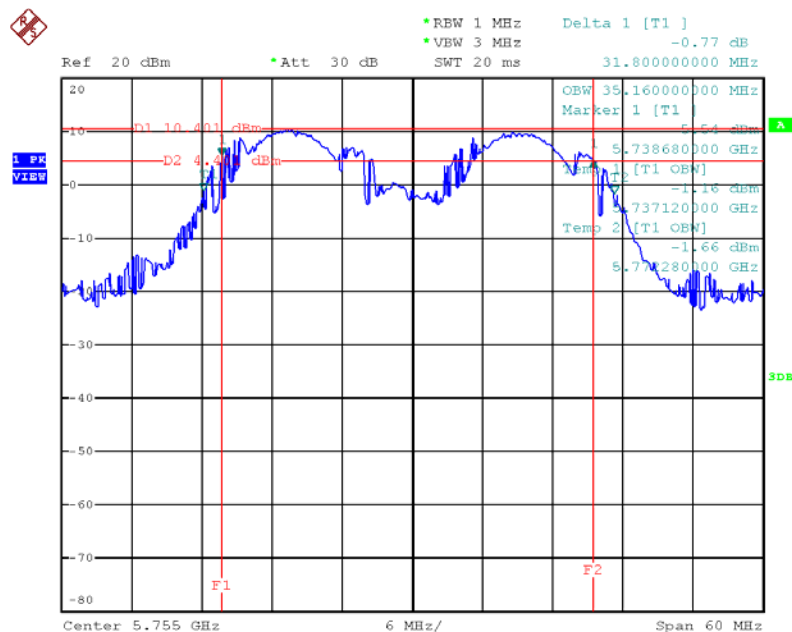
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 2



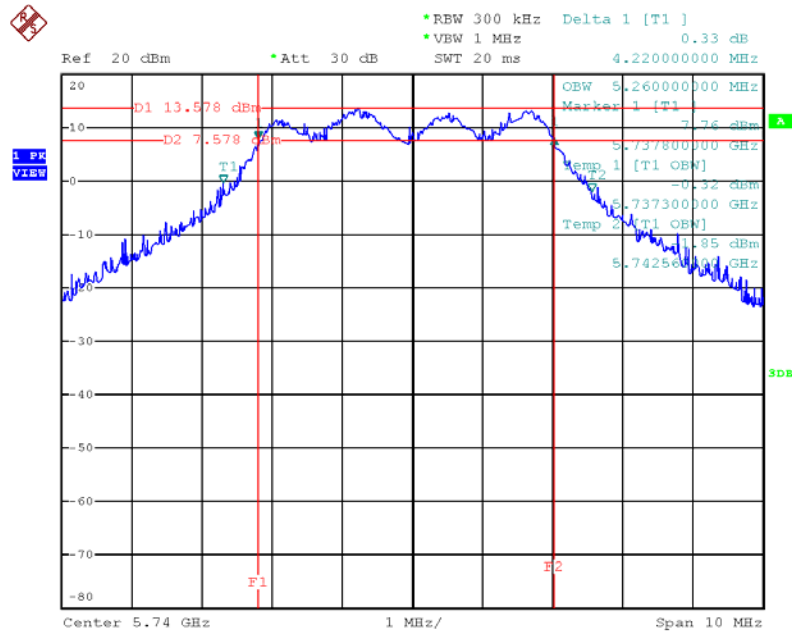
Date: 22.JUL.2012 10:41:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 2



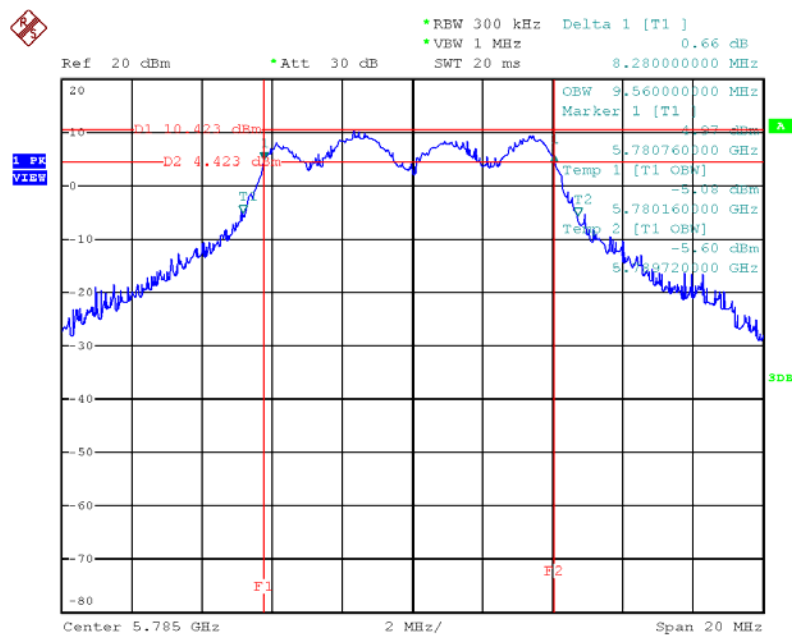
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 2



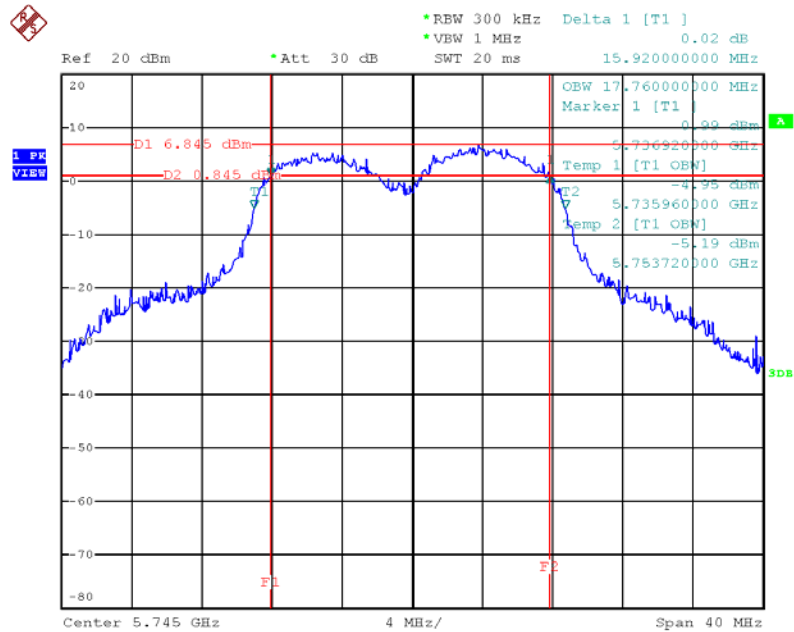
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5785 MHz / Mode 2



Date: 21.JUL.2012 06:36:35

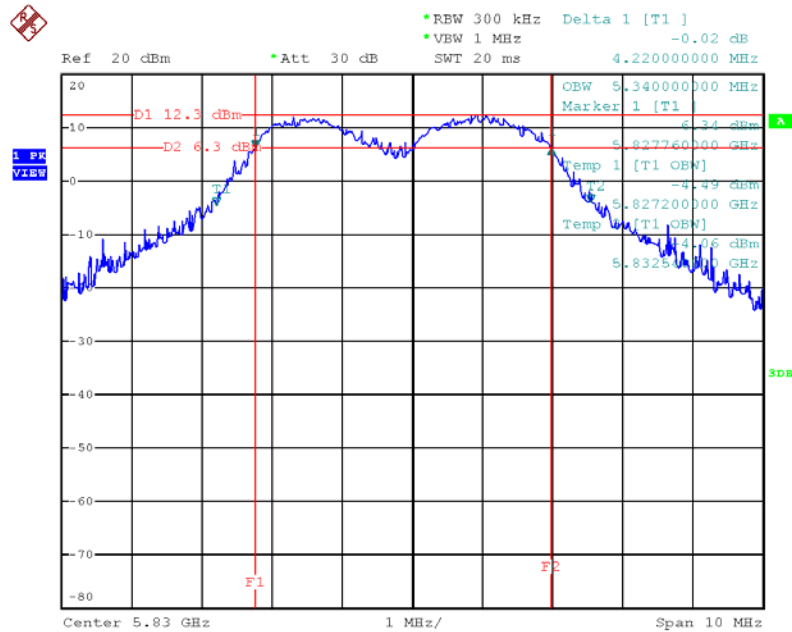
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745 MHz / Mode 2



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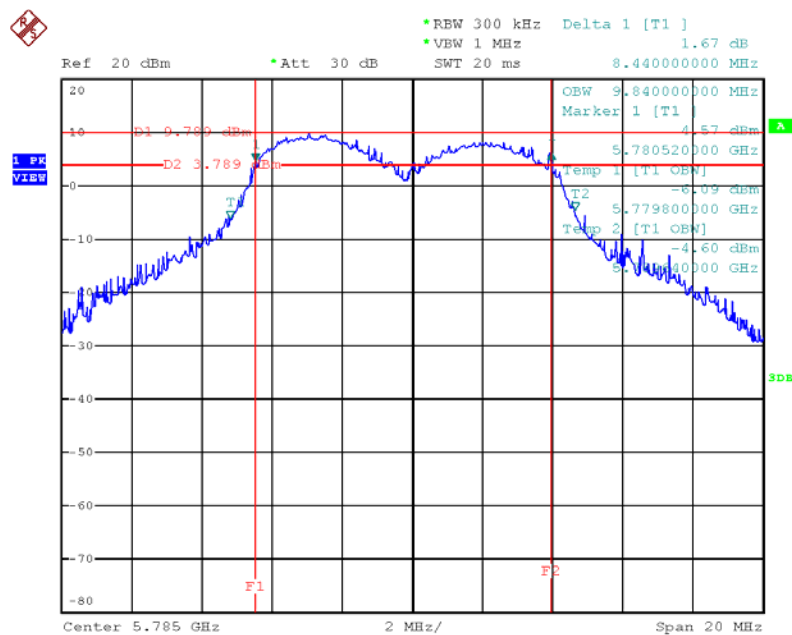
For P to M

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 3



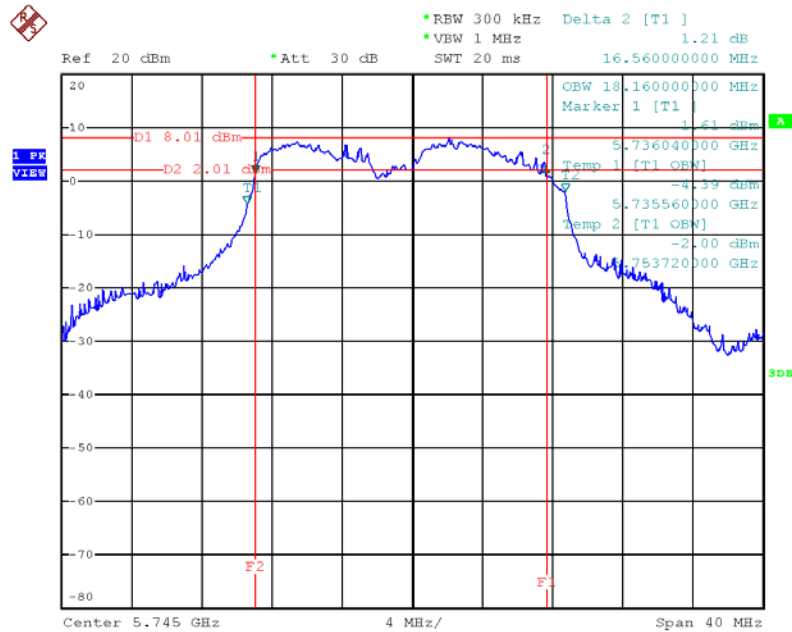
Date: 21.JUL.2012 06:23:40

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 3



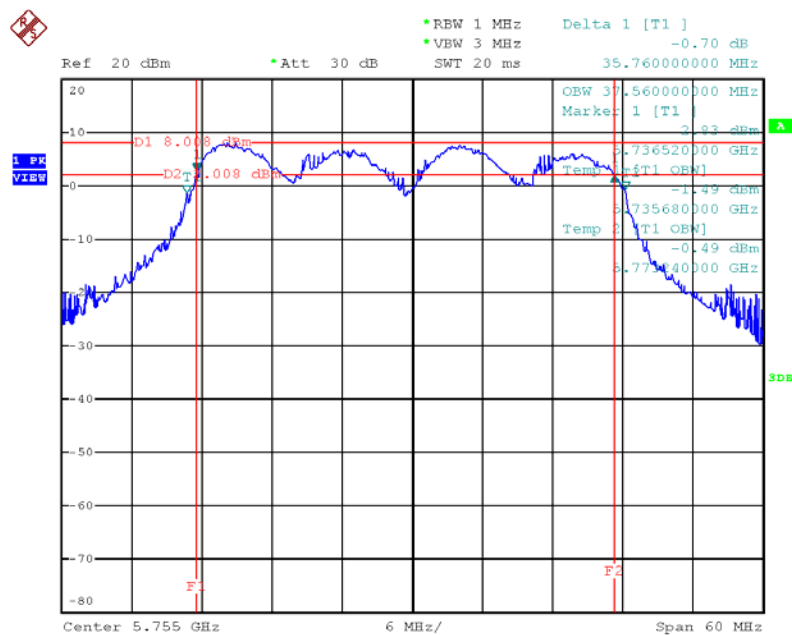
Date: 21.JUL.2012 06:29:29

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 3



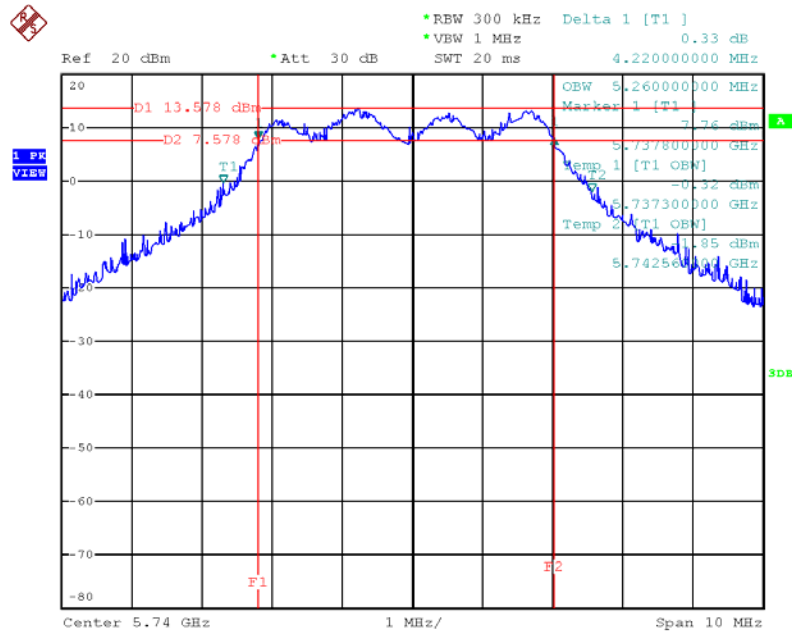
Date: 20.JUL.2012 09:34:02

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 3



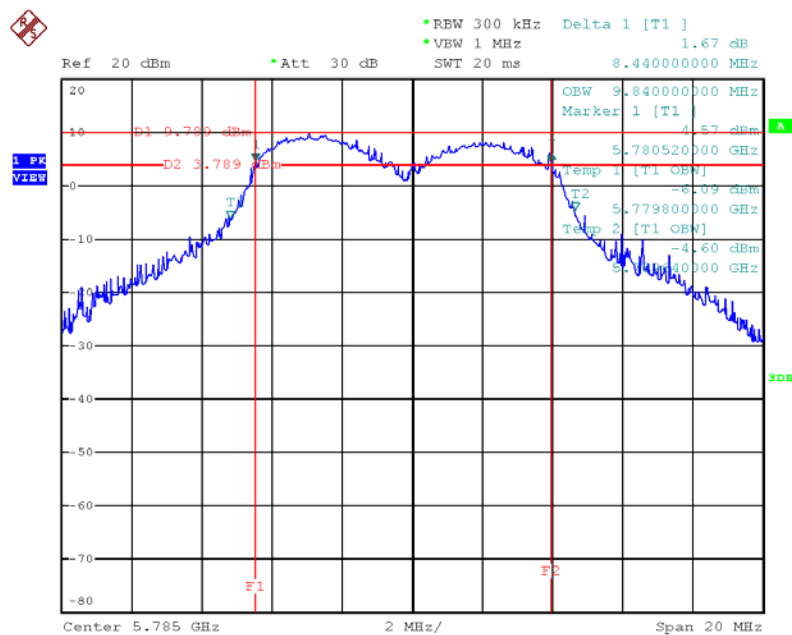
Date: 21.JUL.2012 07:03:54

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 3



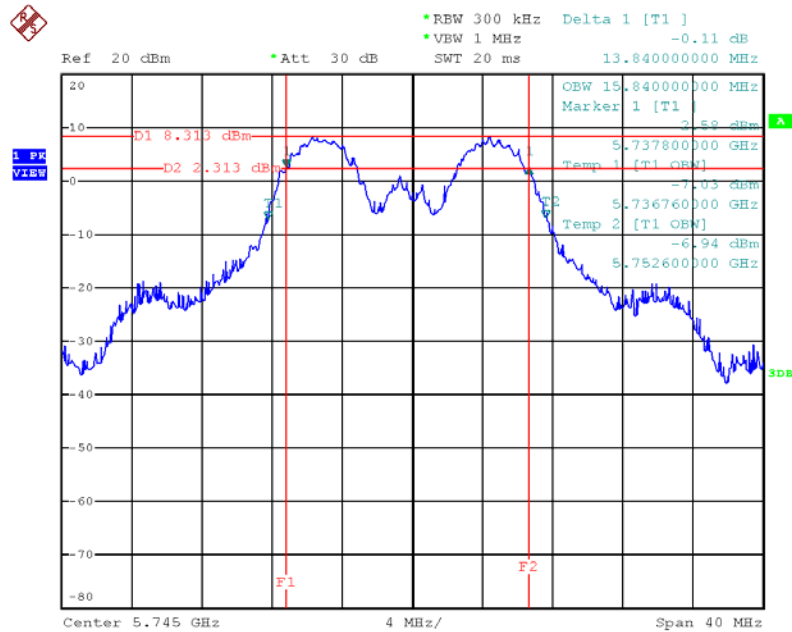
Date: 21.JUL.2012 06:41:41

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5785 MHz / Mode 3



Date: 21.JUL.2012 06:29:29

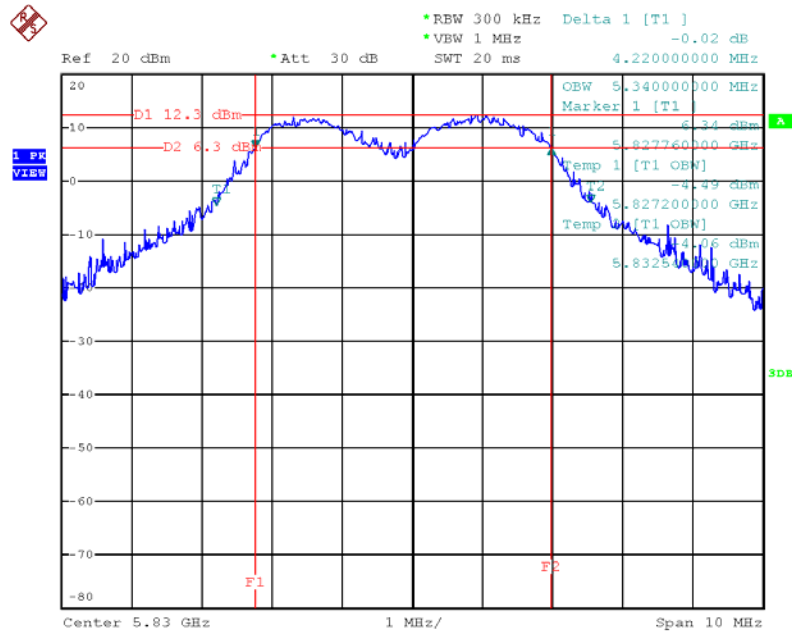
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 3



Date: 22.JUL.2012 10:46:27

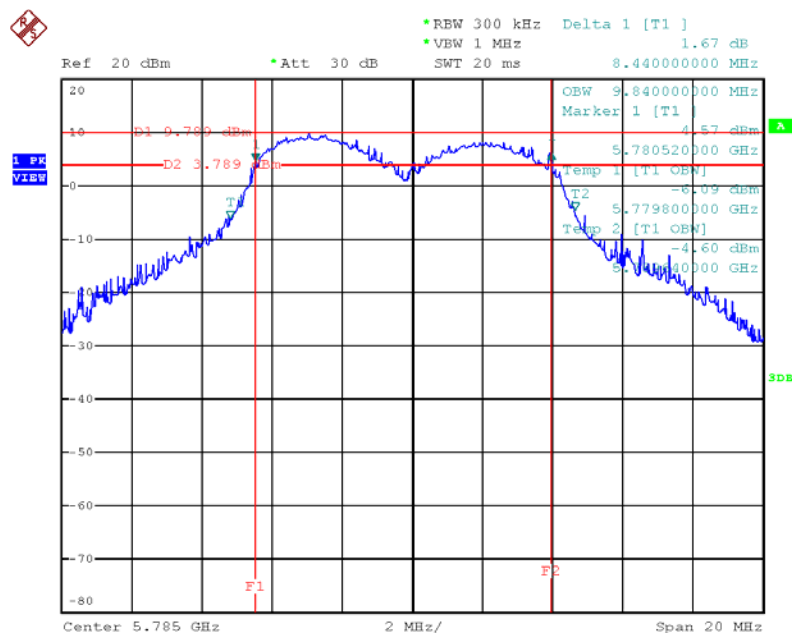
For P to P

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 3



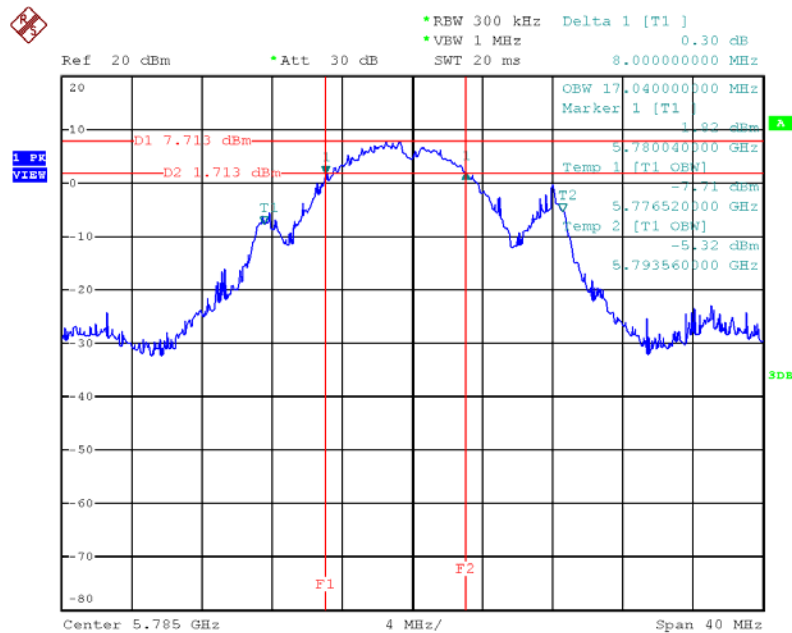
Date: 21.JUL.2012 06:23:40

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 3



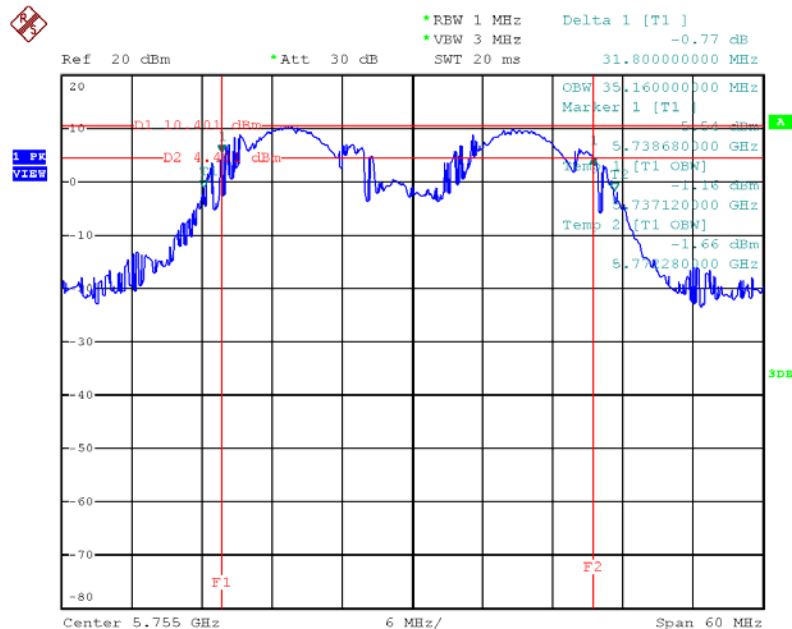
Date: 21.JUL.2012 06:29:29

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 3



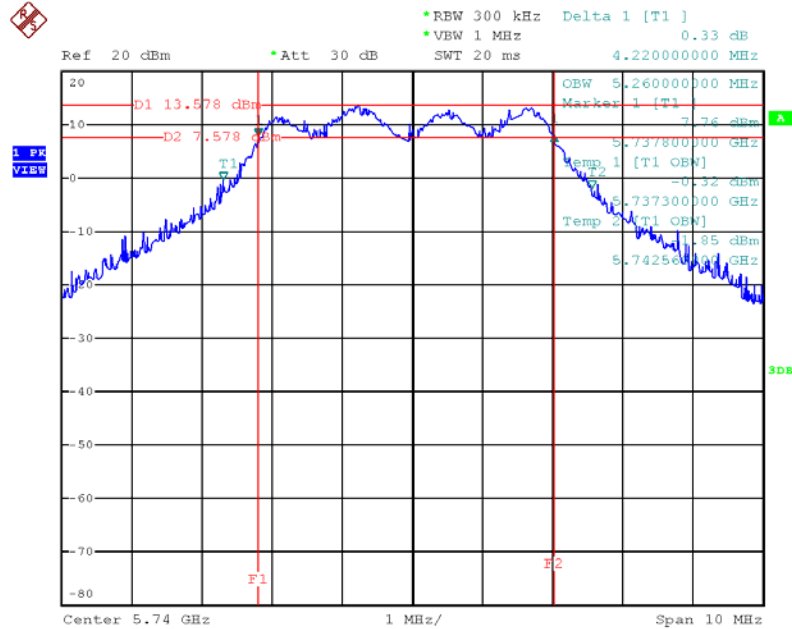
Date: 22.JUL.2012 10:41:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 3



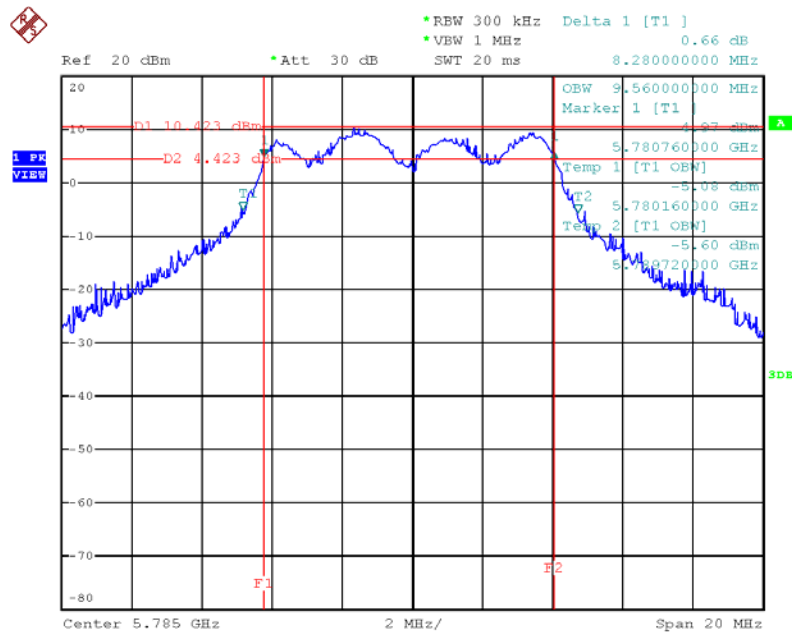
Date: 22.JUL.2012 10:44:14

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 3



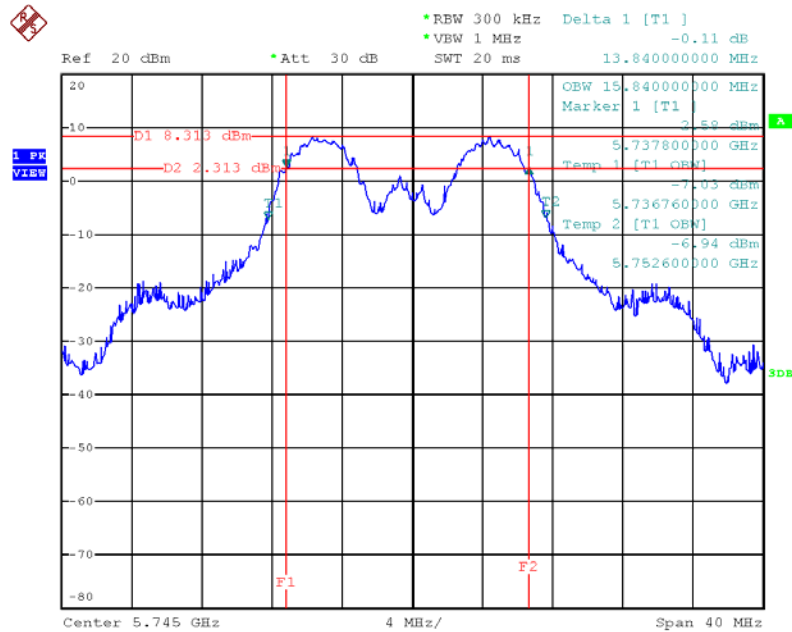
Date: 21.JUL.2012 06:41:41

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5785 MHz / Mode 3



Date: 21.JUL.2012 06:36:35

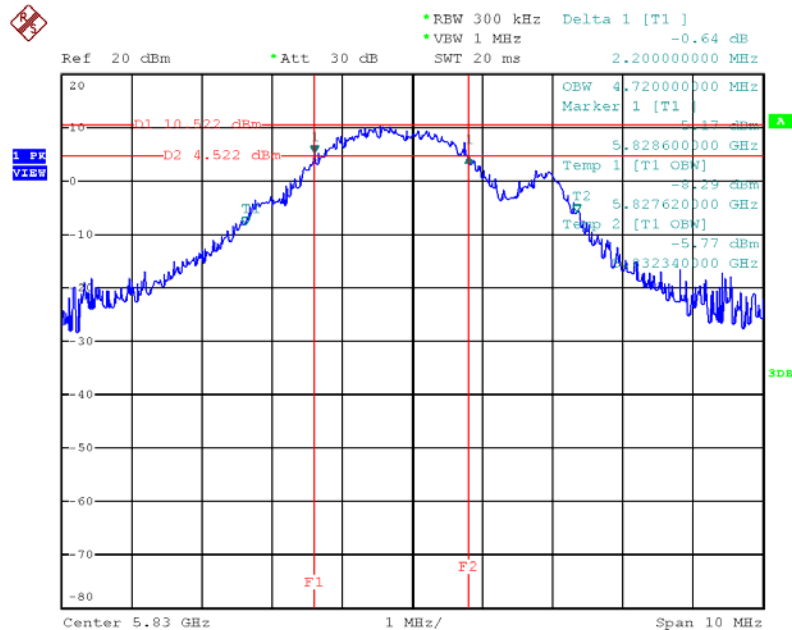
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745 MHz / Mode 3



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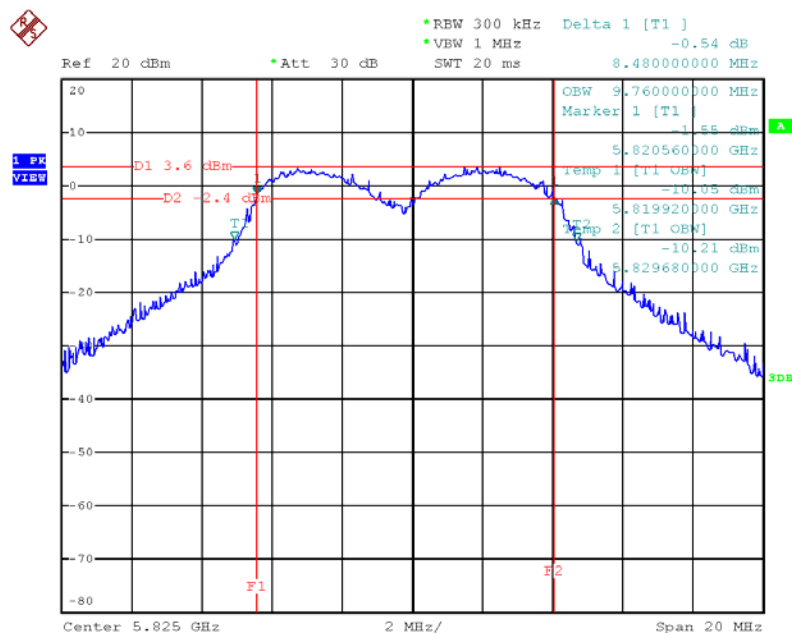
For P to M

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 4



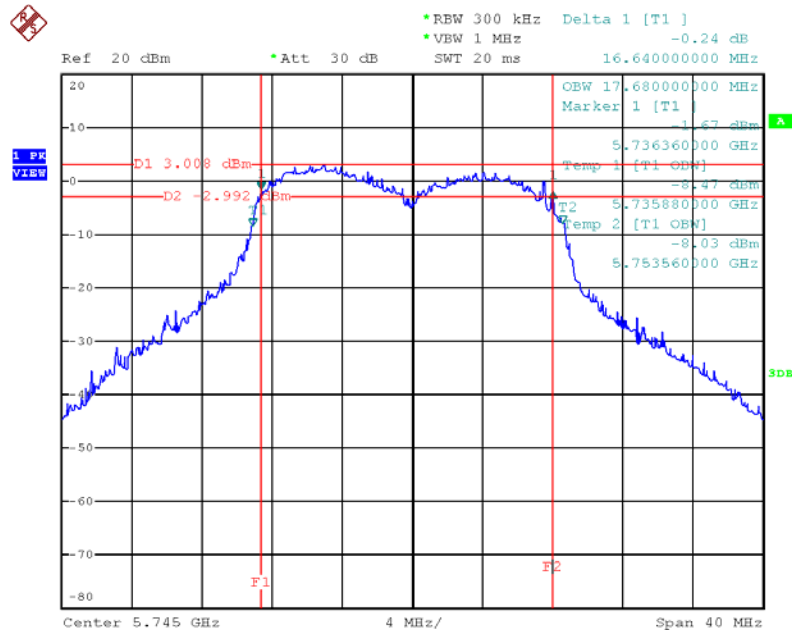
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5825MHz / Mode 4



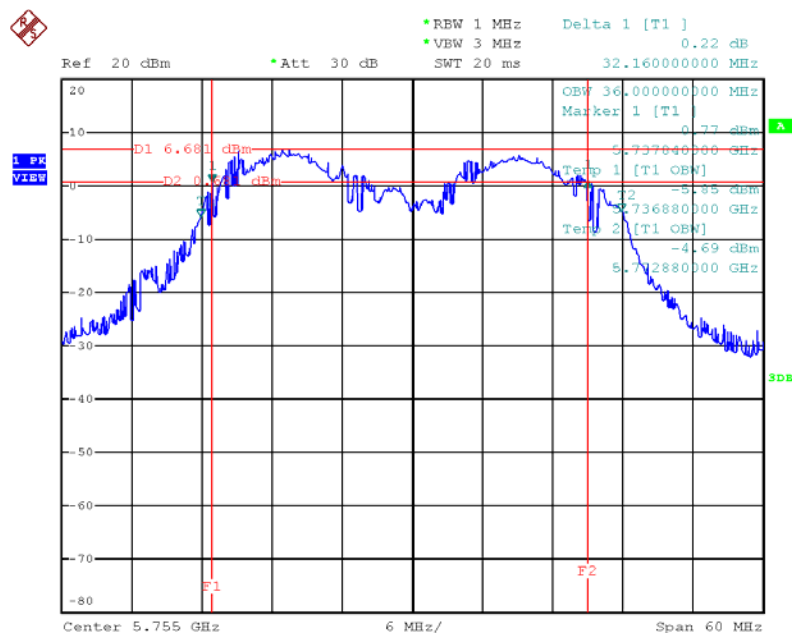
Date: 22.JUL.2012 10:35:21

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 4



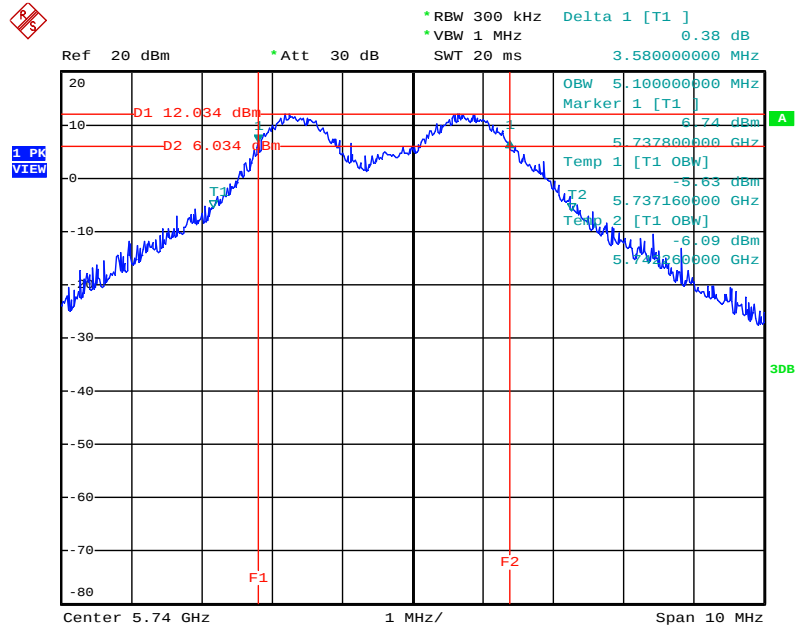
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 4



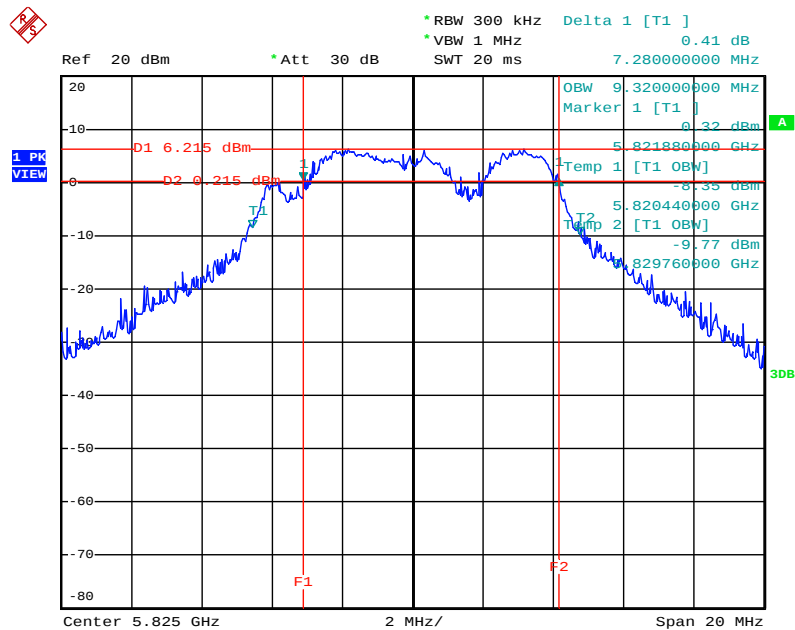
Date: 21.JUL.2012 06:53:32

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 4



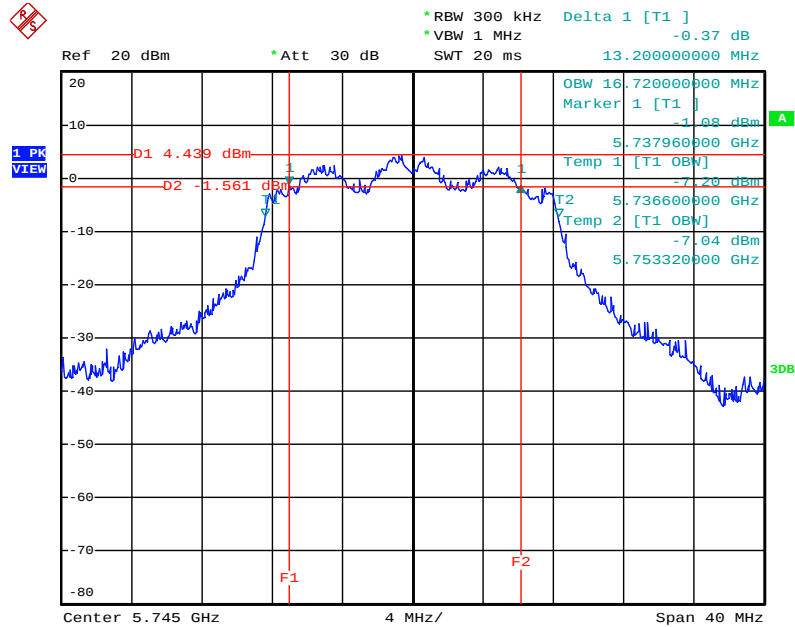
Date: 9.AUG.2012 21:29:11

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5825 MHz / Mode 4



Date: 9.AUG.2012 21:26:11

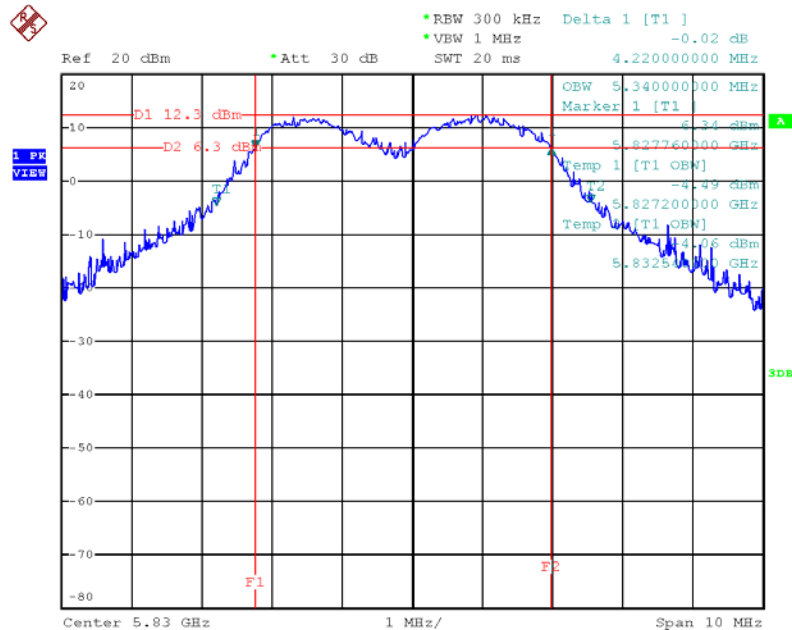
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745MHz / Mode 4



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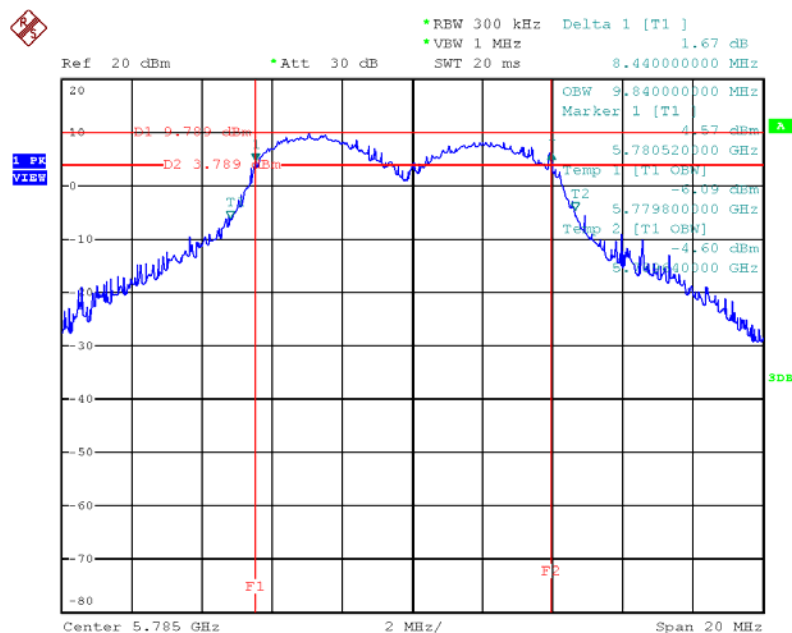
For P to P

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1+Chain 2+Chain 3 / 5830 MHz / Mode 4



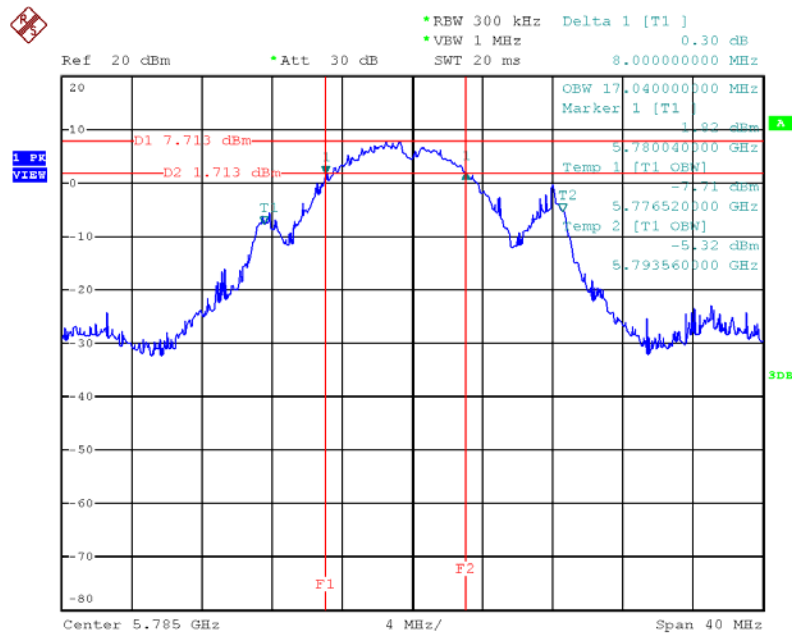
Date: 21.JUL.2012 06:23:40

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 4



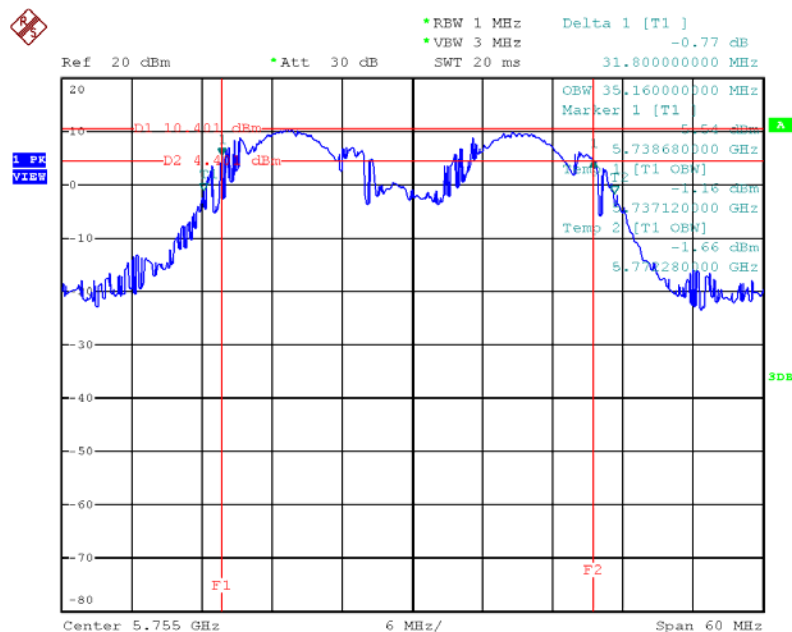
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1+Chain 2+Chain 3 / 5785MHz / Mode 4



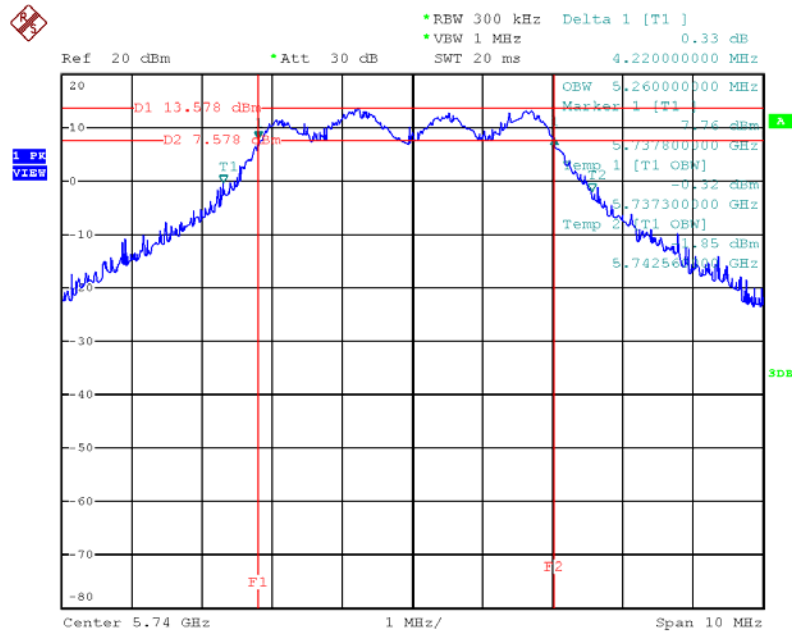
Date: 22.JUL.2012 10:41:42

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1+Chain 2+Chain 3 / 5755MHz / Mode 4



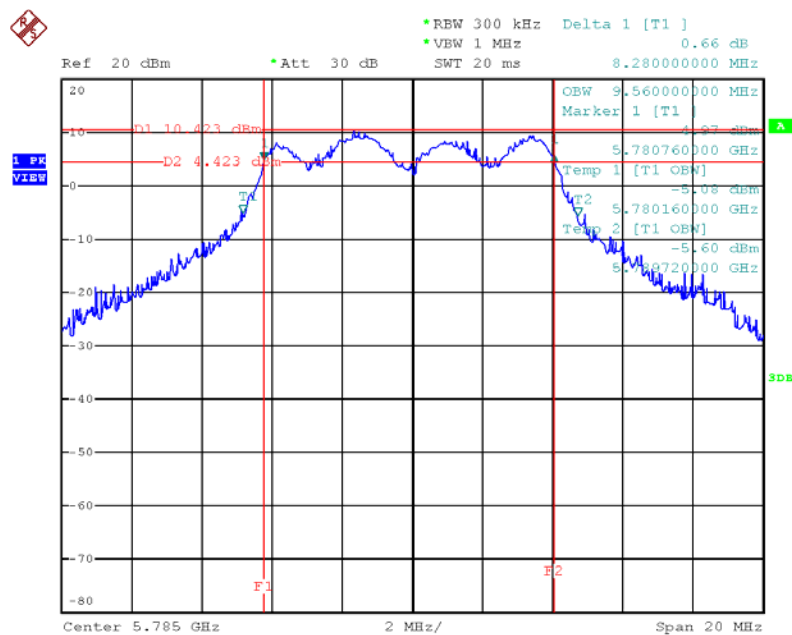
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1+Chain 2+Chain 3 / 5740 MHz / Mode 4



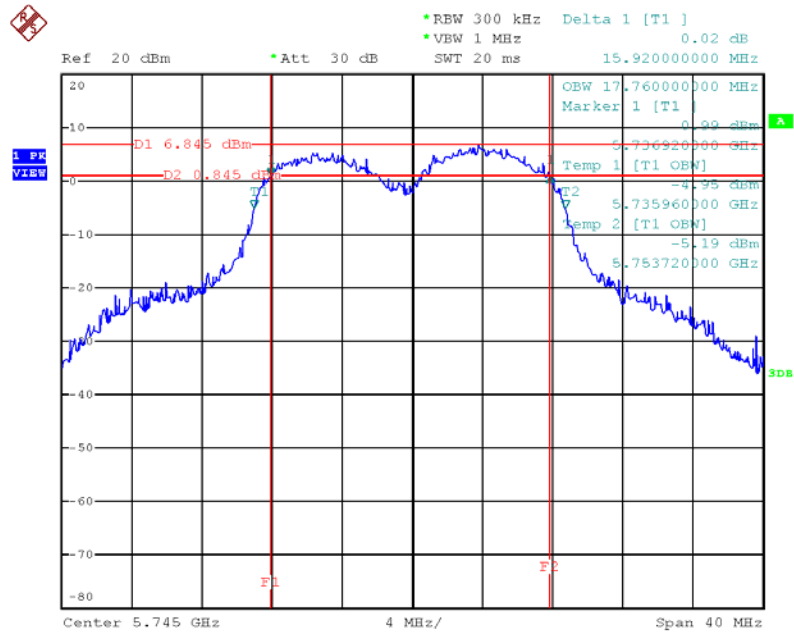
Date: 21.JUL.2012 06:41:41

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1+Chain 2+Chain 3 / 5785 MHz / Mode 4



Date: 21.JUL.2012 06:36:35

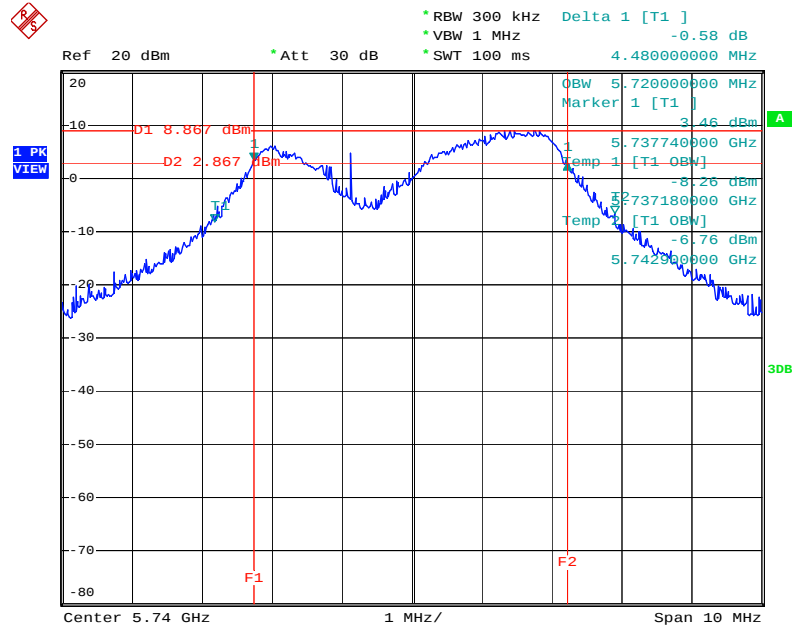
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1+Chain 2+Chain 3 / 5745 MHz / Mode 4



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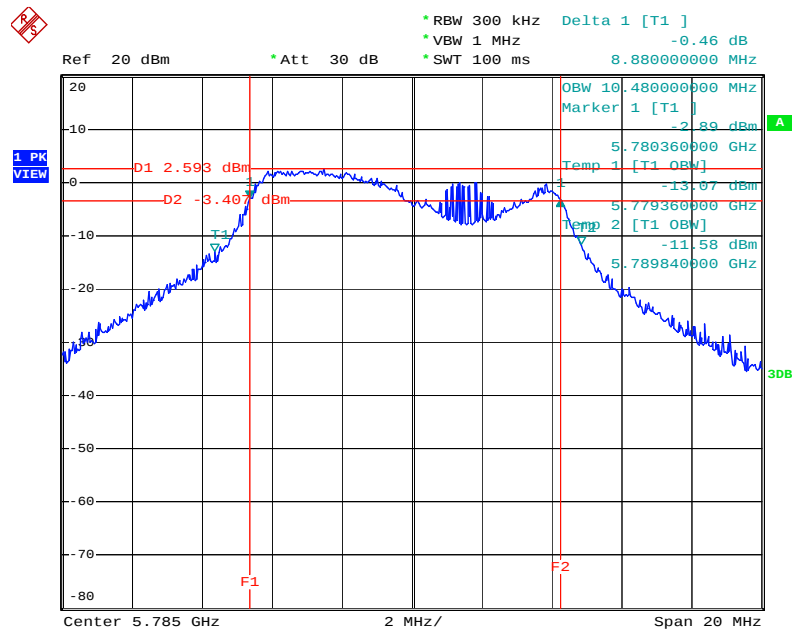
For P to M

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 + Chain 3 / 5740MHz / Mode 5



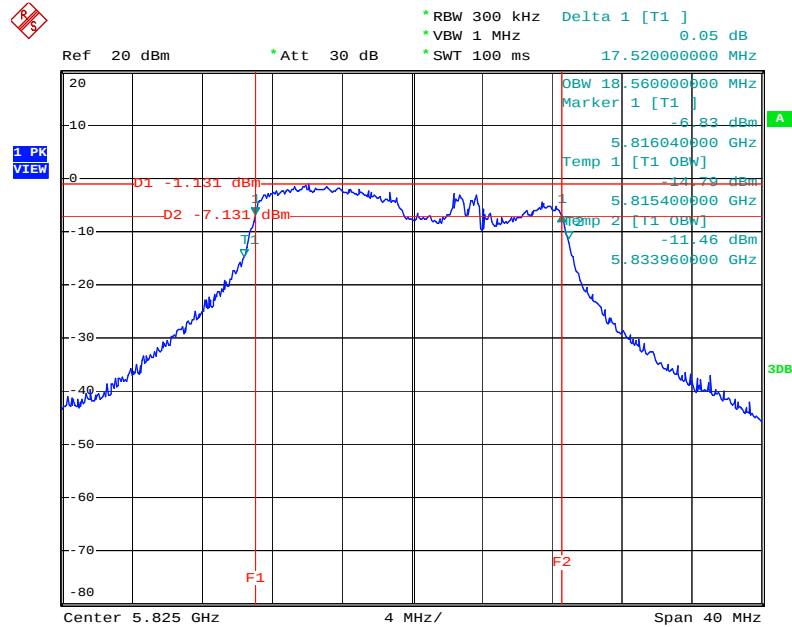
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 10MHz / Chain 1 + Chain 3 / 5785MHz / Mode 5



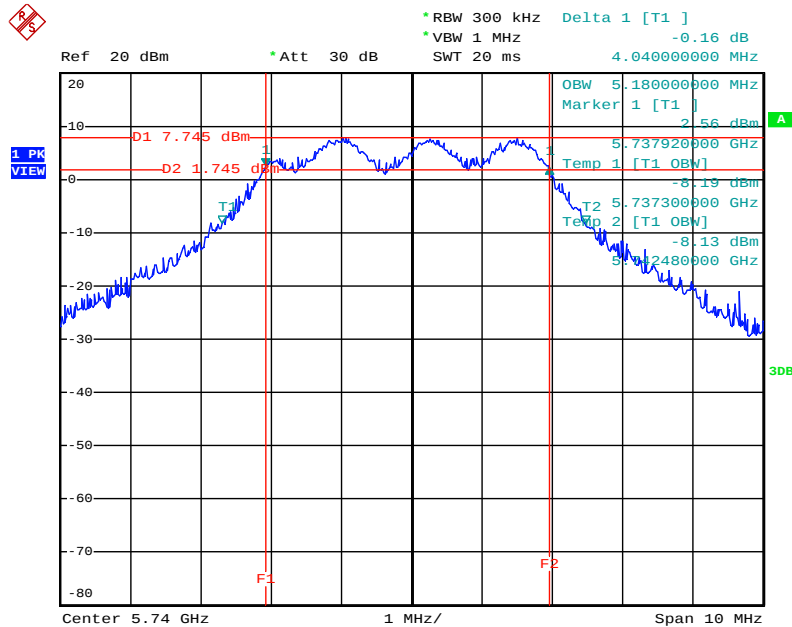
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 3 / 5825 MHz / Mode 5



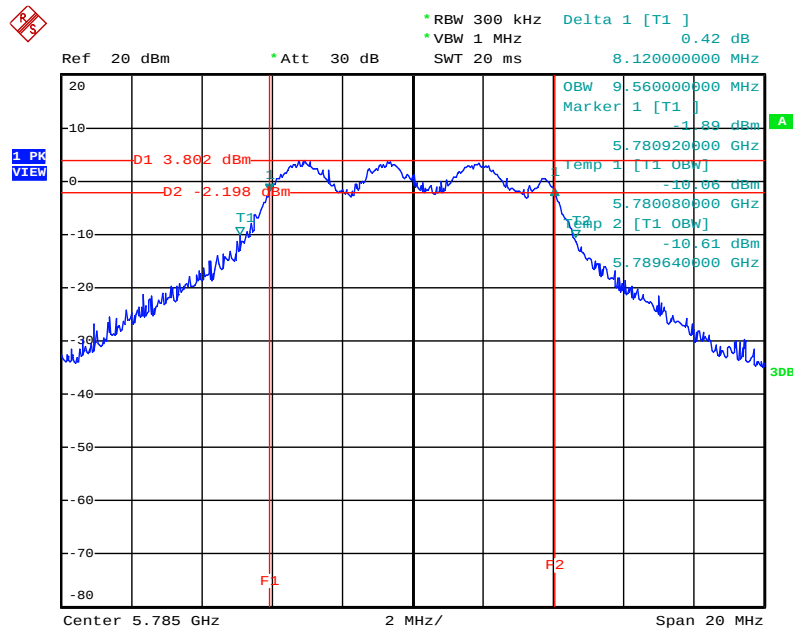
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1 + Chain 3 / 5740MHz / Mode 5



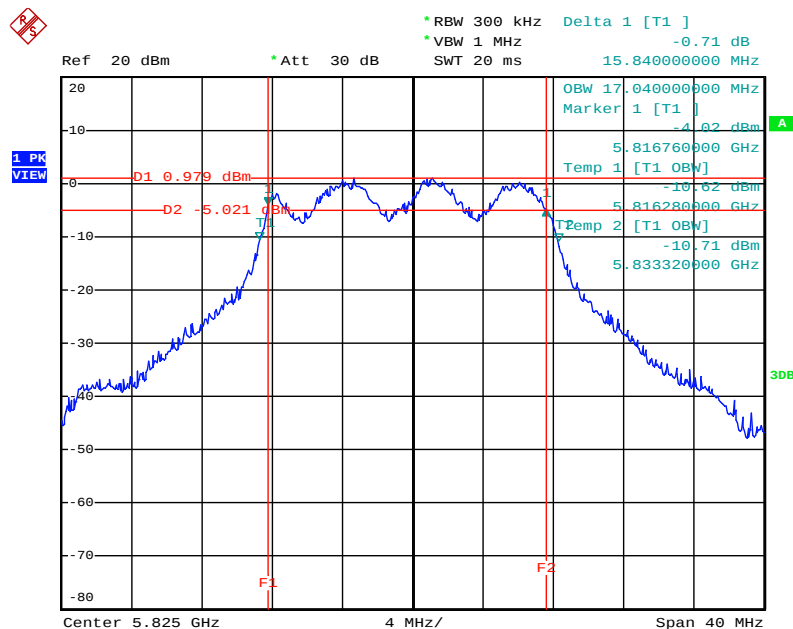
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



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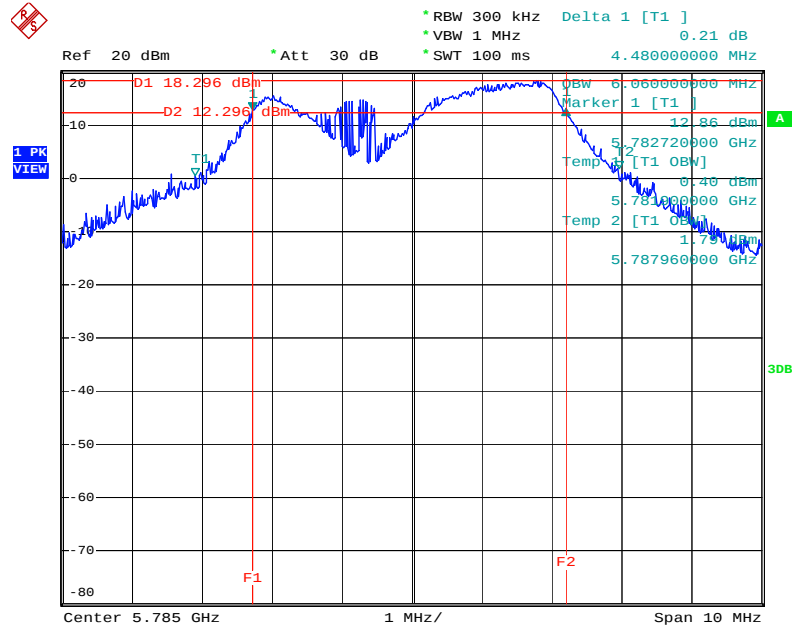
6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1 + Chain 3 / 5825 MHz / Mode 5



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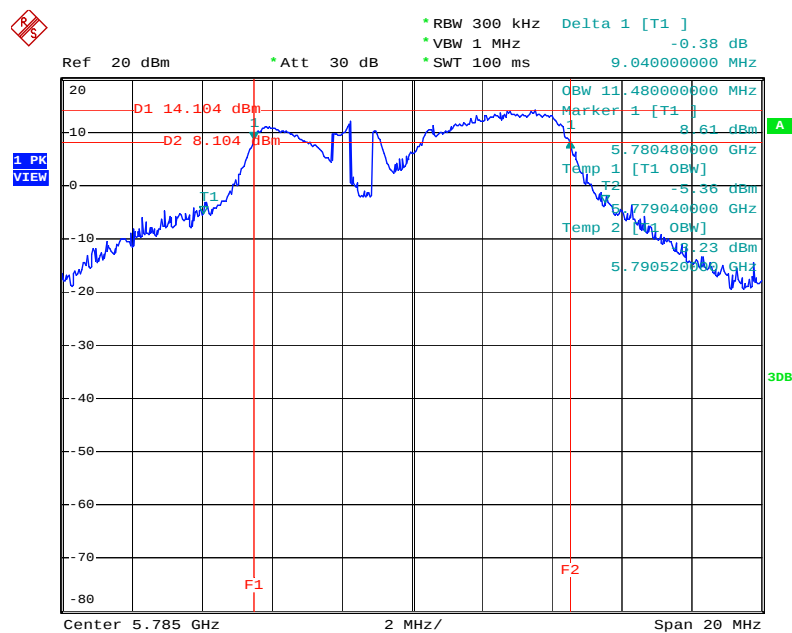
For P to P

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 5MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



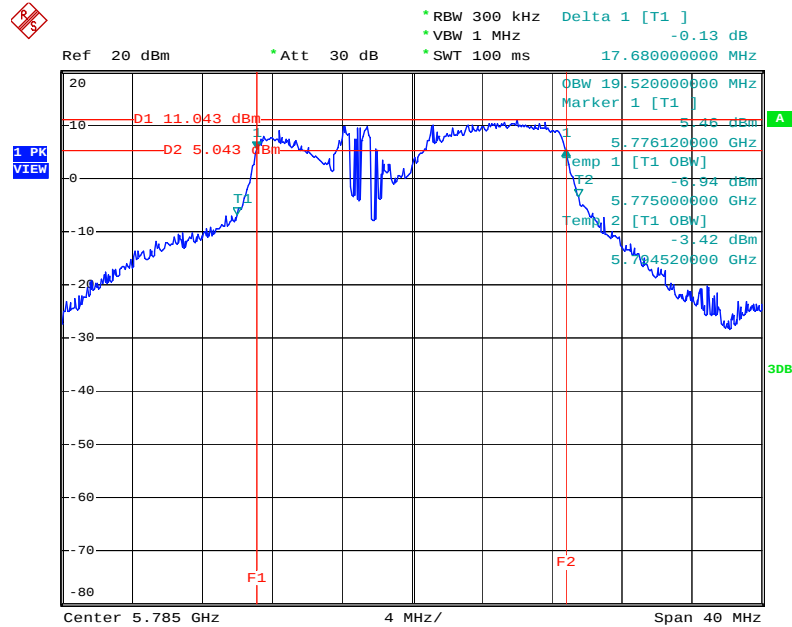
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6 dB Bandwidth Plot on Configuration IEEE 802.11 n MCS0 10MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



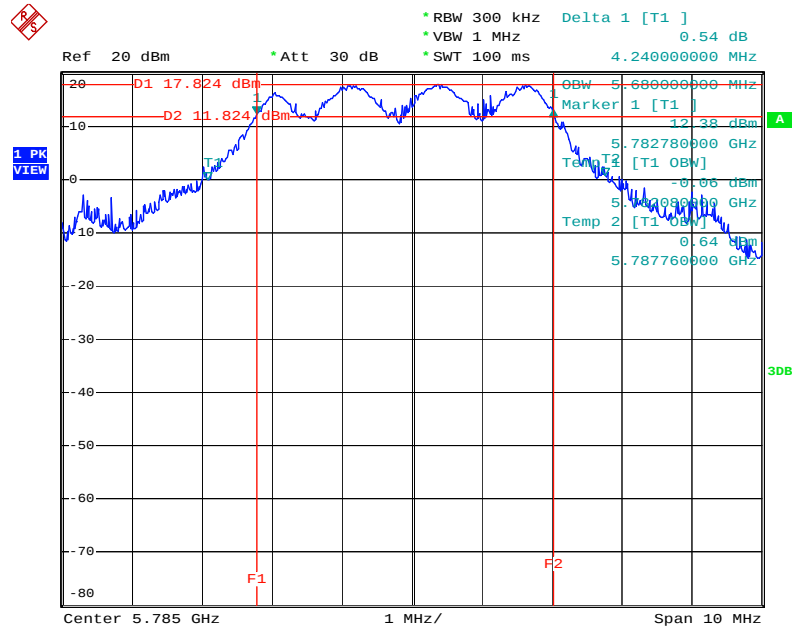
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



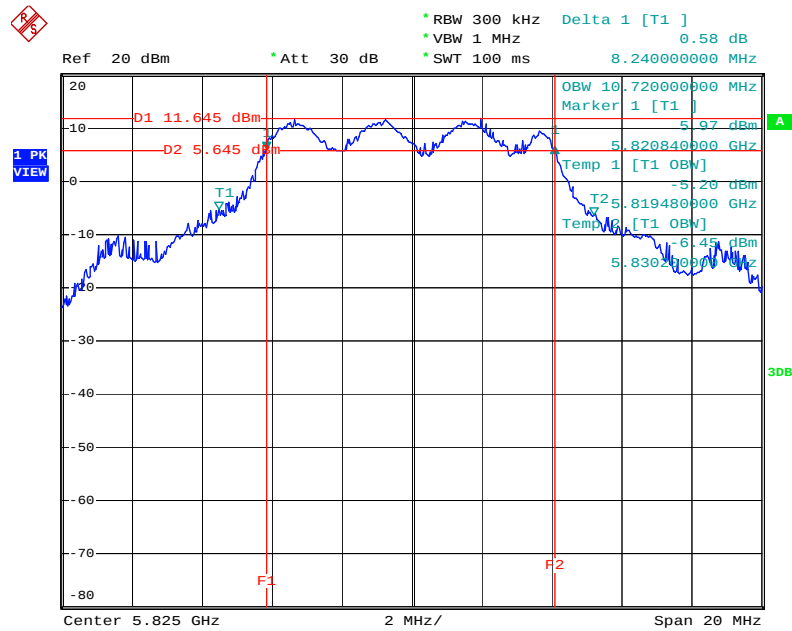
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6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



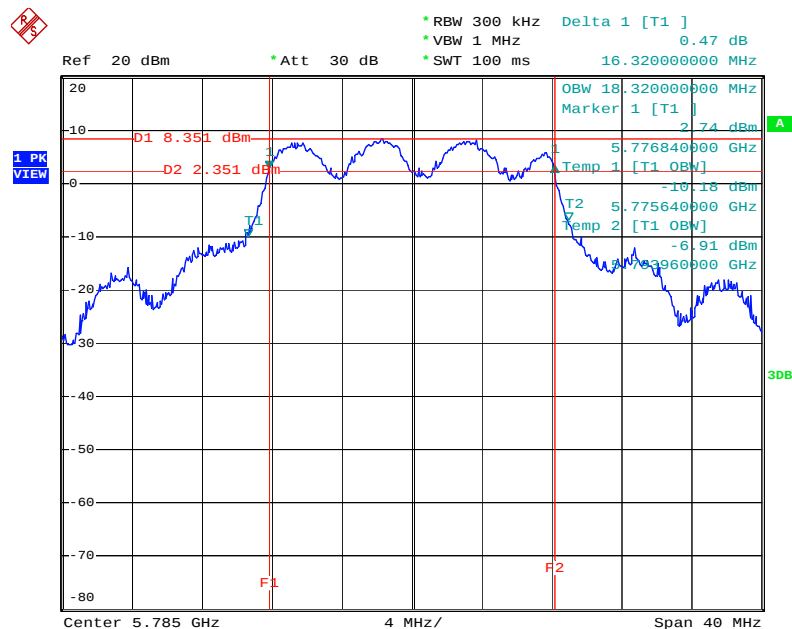
Date: 23.JUL.2012 20:46:03

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz / Chain 1 + Chain 3 / 5825 MHz / Mode 5



Date: 23.JUL.2012 20:48:42

6 dB Bandwidth Plot on Configuration IEEE 802.11a 20MHz / Chain 1 + Chain 3 / 5785 MHz / Mode 5



Date: 23.JUL.2012 20:11:38

4.6. Radiated Emissions Measurement

4.6.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for peak

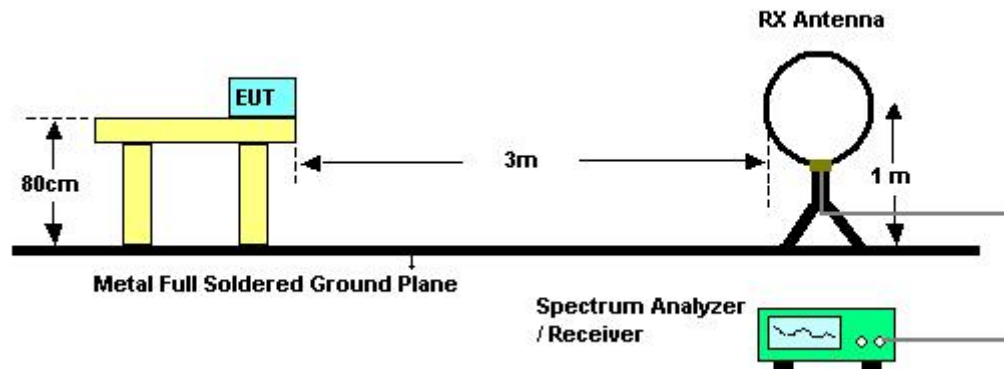
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1GHz / RB 120kHz for QP

4.6.3. Test Procedures

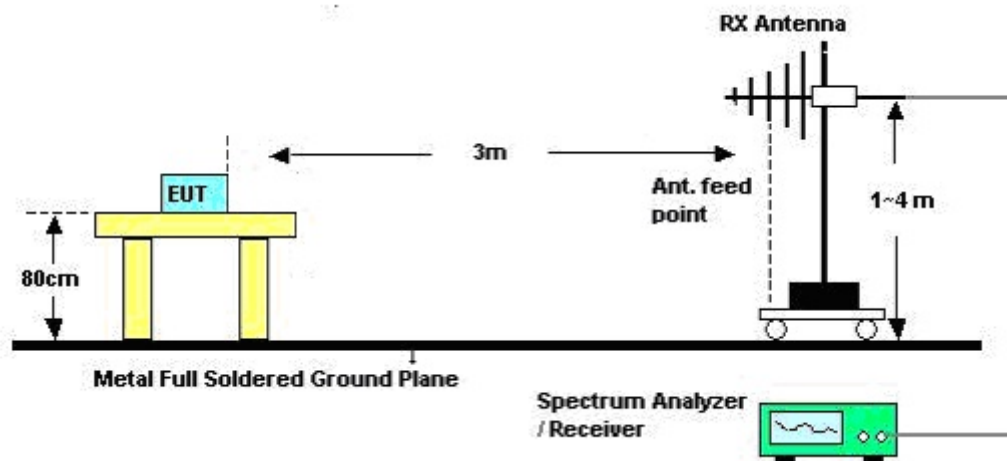
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.6.4. Test Setup Layout

For radiated emissions below 1GHz



For radiated emissions above 1GHz



4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.6.7. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	CTX
Test Date	Jul. 18, 2012		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

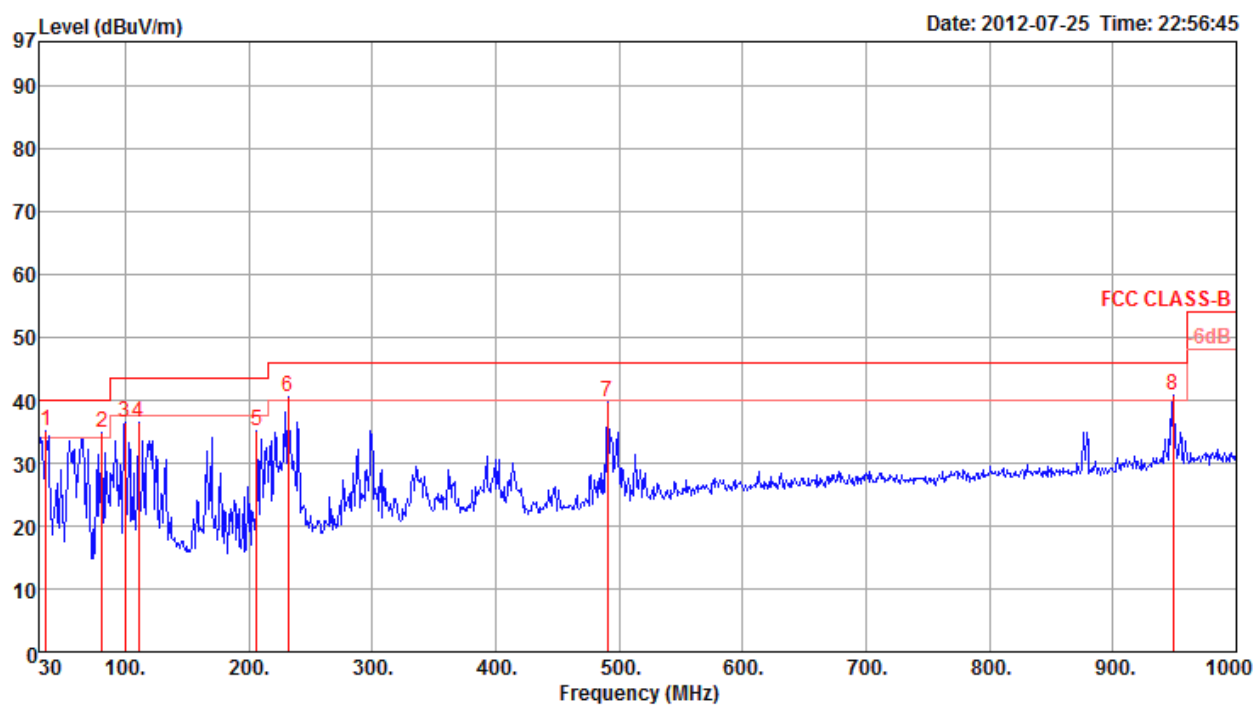
Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

4.6.8. Results of Radiated Emissions (30MHz~1GHz)

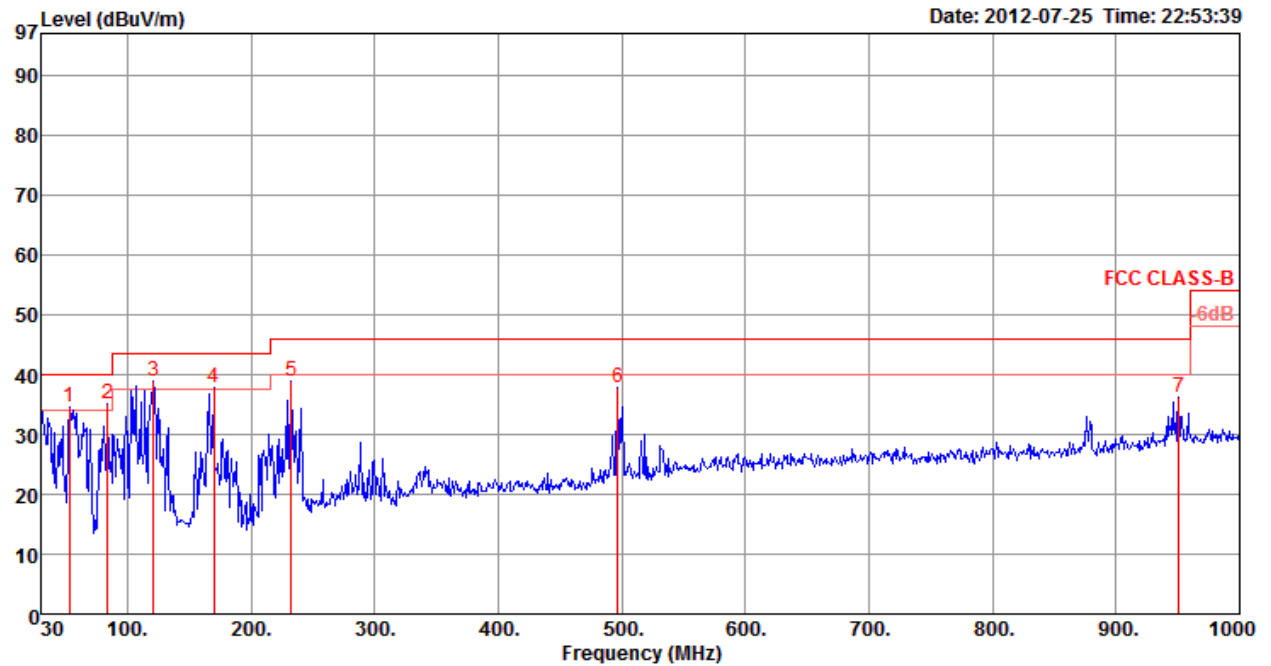
Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	CTX
Test Mode	Mode 1		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna		Pol/Phase	T/Pos	A/Pos
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	Remark		deg	cm
1 p	35.82	35.21	40.00	-4.79	46.02	0.93	28.00	16.26	Peak	HORIZONTAL	0	100
2 !	81.41	34.94	40.00	-5.06	53.81	1.35	27.90	7.68	Peak	HORIZONTAL	0	100
3	99.84	36.57	43.50	-6.93	51.49	1.50	27.82	11.40	Peak	HORIZONTAL	0	100
4	110.51	36.48	43.50	-7.02	50.00	1.57	27.73	12.64	Peak	HORIZONTAL	0	100
5	206.54	35.10	43.50	-8.40	49.62	2.15	27.20	10.53	Peak	HORIZONTAL	0	100
6 !	231.76	40.59	46.00	-5.41	53.86	2.29	27.02	11.46	Peak	HORIZONTAL	0	100
7	490.75	39.79	46.00	-6.21	46.70	3.36	27.92	17.65	Peak	HORIZONTAL	0	100
8 !	948.59	40.77	46.00	-5.23	40.55	4.85	26.52	21.89	Peak	HORIZONTAL	0	100

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			T/Pos	A/Pos
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	Remark	Pol/Phase	deg	cm
1	53.28	34.71	40.00	-5.29	53.36	1.10	27.91	8.16	Peak	VERTICAL	208	100
2	84.32	35.14	40.00	-4.86	53.44	1.37	27.89	8.22	Peak	VERTICAL	208	100
3	121.18	38.88	43.50	-4.62	51.94	1.64	27.68	12.98	Peak	VERTICAL	208	100
4	169.68	37.91	43.50	-5.59	53.08	1.94	27.41	10.30	Peak	VERTICAL	208	100
5	232.73	38.94	46.00	-7.06	52.12	2.29	27.01	11.54	Peak	VERTICAL	208	100
6	496.57	37.78	46.00	-8.22	44.59	3.37	27.92	17.74	Peak	VERTICAL	208	100
7	950.53	36.14	46.00	-9.86	35.87	4.86	26.50	21.91	Peak	VERTICAL	208	100

Note:

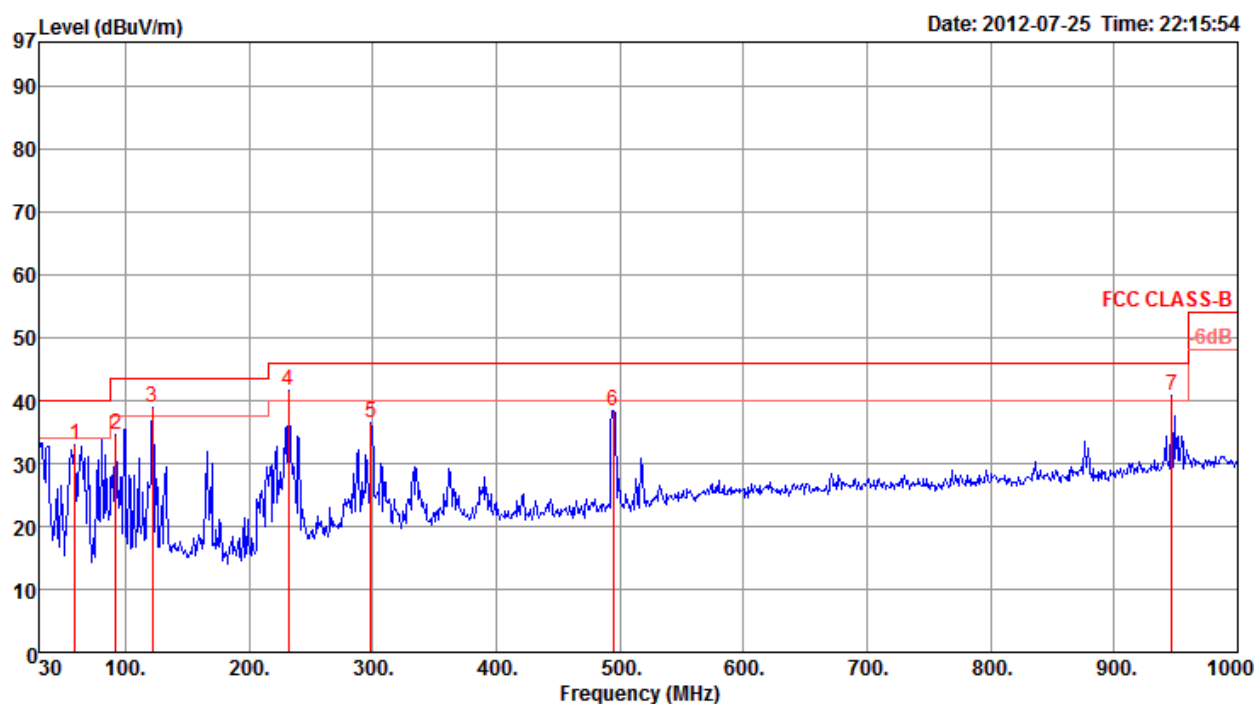
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

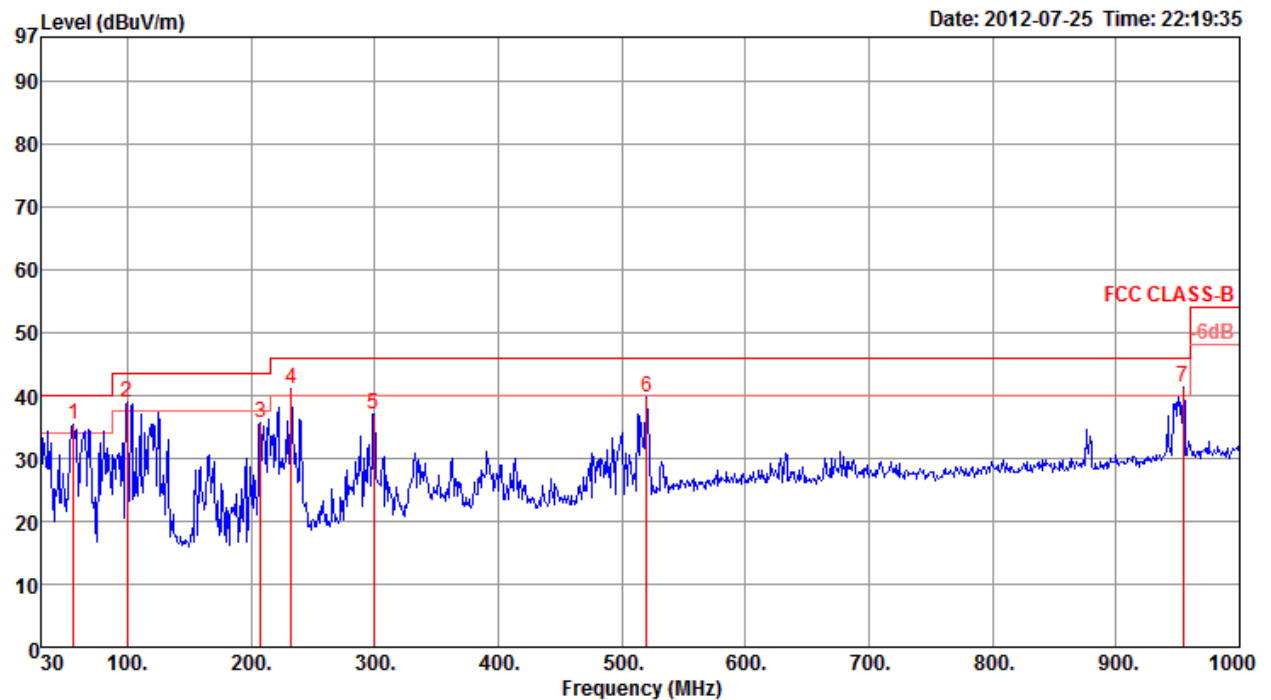
Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	CTX
Test Mode	Mode 2		

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	Remark	Pol/Phase	T/Pos	A/Pos
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m			deg	cm
1	59.10	32.97	40.00	-7.03	52.69	1.16	27.96	7.08	Peak	HORIZONTAL	0	100
2	92.08	34.56	43.50	-8.94	51.28	1.42	27.86	9.72	Peak	HORIZONTAL	0	100
3 !	122.15	38.92	43.50	-4.58	52.00	1.64	27.68	12.96	Peak	HORIZONTAL	0	100
4 p	231.76	41.59	46.00	-4.41	54.86	2.29	27.02	11.46	Peak	HORIZONTAL	0	100
5	298.69	36.48	46.00	-9.52	47.00	2.51	26.83	13.80	Peak	HORIZONTAL	0	100
6	494.63	38.37	46.00	-7.63	45.21	3.37	27.92	17.71	Peak	HORIZONTAL	0	100
7 !	946.65	40.80	46.00	-5.20	40.61	4.84	26.53	21.88	Peak	HORIZONTAL	0	100

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna			T/Pos	A/Pos
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor	Factor	Remark	Pol/Phase	deg	cm
1	56.19	35.29	40.00	-4.71	54.45	1.14	27.92	7.62	Peak	VERTICAL	0	400
2	99.84	38.91	43.50	-4.59	53.83	1.50	27.82	11.40	Peak	VERTICAL	0	100
3	207.51	35.56	43.50	-7.94	50.05	2.15	27.19	10.55	Peak	VERTICAL	0	400
4	232.73	41.17	46.00	-4.83	54.35	2.29	27.01	11.54	Peak	VERTICAL	0	400
5	299.66	37.04	46.00	-8.96	47.56	2.51	26.83	13.80	Peak	VERTICAL	0	400
6	519.85	39.62	46.00	-6.38	45.89	3.45	27.91	18.19	Peak	VERTICAL	0	400
7	954.41	41.35	46.00	-4.65	41.04	4.86	26.48	21.93	Peak	VERTICAL	0	400

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.6.9. Results for Radiated Emissions (1GHz~10th Harmonic)

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 148 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11480.52	59.47	74.00	-14.53	45.37	9.68	39.50	35.08	Peak	124	245	HORIZONTAL
2	11480.54	45.56	54.00	-8.44	31.46	9.68	39.50	35.08	Average	124	245	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11479.78	53.63	54.00	-0.37	39.53	9.68	39.50	35.08	Average	140	220	VERTICAL
2	11481.60	67.54	74.00	-6.46	53.44	9.68	39.50	35.08	Peak	140	220	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11569.76	48.59	54.00	-5.41	34.56	9.65	39.47	35.09	Average	120	102	HORIZONTAL
2	11569.84	61.91	74.00	-12.09	47.88	9.65	39.47	35.09	Peak	120	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11569.86	52.20	54.00	-1.80	38.17	9.65	39.47	35.09	Average	124	263	VERTICAL
2	11572.76	65.09	74.00	-8.91	51.05	9.65	39.47	35.08	Peak	124	263	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 166 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11659.88	63.34	74.00	-10.66	49.38	9.59	39.44	35.07	Peak	158	206	HORIZONTAL
2	11660.20	50.75	54.00	-3.25	36.79	9.59	39.44	35.07	Average	158	206	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11660.84	66.98	74.00	-7.02	53.02	9.59	39.44	35.07	Peak	118	92	VERTICAL
2	11661.10	53.46	54.00	-0.54	39.50	9.59	39.44	35.07	Average	118	92	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 10MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.00	47.11	54.00	-6.89	32.98	9.71	39.50	35.08	Average	136	204	HORIZONTAL
2	11494.28	54.16	74.00	-19.84	40.03	9.71	39.50	35.08	Peak	136	204	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.52	51.39	54.00	-2.61	37.26	9.71	39.50	35.08	Average	138	216	VERTICAL
2	11490.20	64.66	74.00	-9.34	50.53	9.71	39.50	35.08	Peak	138	216	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 10MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11569.56	60.32	74.00	-13.68	46.29	9.65	39.47	35.09	Peak	150	221	HORIZONTAL
2	11570.08	46.87	54.00	-7.13	32.84	9.65	39.47	35.09	Average	150	221	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11568.92	49.58	54.00	-4.42	35.55	9.65	39.47	35.09	Average	124	264	VERTICAL
2	11569.32	63.45	74.00	-10.55	49.42	9.65	39.47	35.09	Peak	124	264	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 10MHz Ch 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11648.40	59.77	74.00	-14.23	45.81	9.59	39.44	35.07	Peak	125	102	HORIZONTAL
2	11649.36	46.04	54.00	-7.96	32.08	9.59	39.44	35.07	Average	125	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11647.48	62.53	74.00	-11.47	48.57	9.59	39.44	35.07	Peak	117	91	VERTICAL
2	11651.68	50.49	54.00	-3.51	36.53	9.59	39.44	35.07	Average	117	91	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11488.80	44.29	54.00	-9.71	30.16	9.71	39.50	35.08	Average	164	243 HORIZONTAL
2	11490.40	56.64	74.00	-17.36	42.51	9.71	39.50	35.08	Peak	164	243 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11486.80	47.31	54.00	-6.69	33.21	9.68	39.50	35.08	Average	131	230 VERTICAL
2	11486.80	60.41	74.00	-13.59	46.31	9.68	39.50	35.08	Peak	131	230 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11571.80	42.33	54.00	-11.67	28.30	9.65	39.47	35.09	Average	165	210	HORIZONTAL
2	11574.40	55.96	74.00	-18.04	41.92	9.65	39.47	35.08	Peak	165	210	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11569.40	44.94	54.00	-9.06	30.91	9.65	39.47	35.09	Average	177	169	VERTICAL
2	11569.50	57.12	74.00	-16.88	43.09	9.65	39.47	35.09	Peak	177	169	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 20MHz Ch 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11644.80	54.94	74.00	-19.06	40.98	9.59	39.44	35.07	Peak	162	194	HORIZONTAL
2	11648.00	41.88	54.00	-12.12	27.92	9.59	39.44	35.07	Average	162	194	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11644.50	59.90	74.00	-14.10	45.94	9.59	39.44	35.07	Peak	127	230	VERTICAL
2	11645.20	45.81	54.00	-8.19	31.85	9.59	39.44	35.07	Average	127	230	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 151 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11496.80	54.37	74.00	-19.63	40.26	9.71	39.50	35.10	Peak	135	196 HORIZONTAL
2	11509.10	41.53	54.00	-12.47	27.42	9.71	39.50	35.10	Average	135	196 HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11496.60	58.33	74.00	-15.67	44.22	9.71	39.50	35.10	Peak	142	227 VERTICAL
2	11497.50	45.16	54.00	-8.84	31.05	9.71	39.50	35.10	Average	142	227 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 40MHz Ch 159 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11601.20	53.43	74.00	-20.57	39.41	9.63	39.47	35.08	Peak	166	241 HORIZONTAL
2	11607.50	40.70	54.00	-13.30	26.69	9.63	39.46	35.08	Average	166	241 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11575.10	56.74	74.00	-17.26	42.70	9.65	39.47	35.08	Peak	134	228 VERTICAL
2	11576.00	43.90	54.00	-10.10	29.86	9.65	39.47	35.08	Average	134	228 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 5MHz Ch 148 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	11479.34	51.62	54.00	-2.38	37.52	9.68	39.50	35.08	Average	153	264 HORIZONTAL
2	11481.96	65.04	74.00	-8.96	50.94	9.68	39.50	35.08	Peak	153	264 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	11479.74	53.46	54.00	-0.54	39.36	9.68	39.50	35.08	Average	141	220 VERTICAL
2	11480.76	68.12	74.00	-5.88	54.02	9.68	39.50	35.08	Peak	141	220 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 5MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.62	49.03	54.00	-4.97	35.00	9.65	39.47	35.09 Average	121	102	HORIZONTAL
2	11570.42	61.39	74.00	-12.61	47.36	9.65	39.47	35.09 Peak	121	102	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.40	65.59	74.00	-8.41	51.56	9.65	39.47	35.09 Peak	125	263	VERTICAL
2	11569.58	52.49	54.00	-1.51	38.46	9.65	39.47	35.09 Average	125	263	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 5MHz Ch 166 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11659.88	62.96	74.00	-11.04	49.00	9.59	39.44	35.07	Peak	151	206 HORIZONTAL
2	11659.92	50.50	54.00	-3.50	36.54	9.59	39.44	35.07	Average	151	206 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11657.56	66.15	74.00	-7.85	52.19	9.59	39.44	35.07	Peak	158	235 VERTICAL
2	11660.18	52.83	54.00	-1.17	38.87	9.59	39.44	35.07	Average	158	235 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 10MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.28	46.92	54.00	-7.08	32.79	9.71	39.50	35.08	Average	135	204	HORIZONTAL
2	11489.56	60.45	74.00	-13.55	46.32	9.71	39.50	35.08	Peak	135	204	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11489.44	53.04	54.00	-0.96	38.91	9.71	39.50	35.08	Average	147	220	VERTICAL
2	11491.36	66.34	74.00	-7.66	52.21	9.71	39.50	35.08	Peak	147	220	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 10MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11569.16	47.24	54.00	-6.76	33.21	9.65	39.47	35.09	Average	120	102 HORIZONTAL
2	11569.24	60.68	74.00	-13.32	46.65	9.65	39.47	35.09	Peak	120	102 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11570.40	50.52	54.00	-3.48	36.49	9.65	39.47	35.09	Average	134	222 VERTICAL
2	11570.68	64.43	74.00	-9.57	50.40	9.65	39.47	35.09	Peak	134	222 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 10MHz Ch 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 18, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11650.16	61.95	74.00	-12.05	47.99	9.59	39.44	35.07	Peak	151	207	HORIZONTAL
2	11650.52	48.86	54.00	-5.14	34.90	9.59	39.44	35.07	Average	151	207	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11650.72	66.63	74.00	-7.37	52.67	9.59	39.44	35.07	Peak	136	92	VERTICAL
2	11650.92	52.34	54.00	-1.66	38.38	9.59	39.44	35.07	Average	136	92	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 20MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11489.50	42.12	54.00	-11.88	27.99	9.71	39.50	35.08	Average	130	196 HORIZONTAL
2	11494.30	54.59	74.00	-19.41	40.46	9.71	39.50	35.08	Peak	130	196 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg	
1	11492.50	47.23	54.00	-6.77	33.10	9.71	39.50	35.08	Average	142	227 VERTICAL
2	11492.60	60.48	74.00	-13.52	46.35	9.71	39.50	35.08	Peak	142	227 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 20MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11569.40	40.44	54.00	-13.56	26.41	9.65	39.47	35.09	Average	100	172
2	11580.80	52.69	74.00	-21.31	38.65	9.65	39.47	35.08	Peak	100	172

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp		A/Pos	T/Pos	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	Remark	cm	deg
1	11563.70	59.24	74.00	-14.76	45.20	9.65	39.48	35.09	Peak	134	230
2	11567.90	46.25	54.00	-7.75	32.22	9.65	39.47	35.09	Average	134	230

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a 20MHz Ch 165 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 17, 2012	Test Mode	Mode 1

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11647.30	56.70	74.00	-17.30	42.74	9.59	39.44	35.07	Peak	173	195	HORIZONTAL
2	11647.60	42.57	54.00	-11.43	28.61	9.59	39.44	35.07	Average	173	195	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11647.60	46.37	54.00	-7.63	32.41	9.59	39.44	35.07	Average	127	231	VERTICAL
2	11657.90	60.96	74.00	-13.04	47.00	9.59	39.44	35.07	Peak	127	231	VERTICAL

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 148 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 19, 2012	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	11479.60	52.27	74.00	-21.73	43.67	5.11	38.77	35.28	Peak	133	112 HORIZONTAL
2	11479.88	39.89	54.00	-14.11	31.29	5.11	38.77	35.28	Average	133	112 HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg
1	11479.24	43.66	54.00	-10.34	35.06	5.11	38.77	35.28	Average	127	258 VERTICAL
2	11483.54	56.53	74.00	-17.47	47.92	5.11	38.78	35.28	Peak	127	258 VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 19, 2012	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11570.04	38.81	54.00	-15.19	30.14	5.14	38.83	35.30	Average	169	103	HORIZONTAL
2	11570.36	51.79	74.00	-22.21	43.12	5.14	38.83	35.30	Peak	169	103	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11568.72	59.27	74.00	-14.73	50.61	5.13	38.83	35.30	Peak	100	263	VERTICAL
2	11568.90	46.01	54.00	-7.99	37.35	5.13	38.83	35.30	Average	100	263	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 5MHz Ch 166 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 19, 2012	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11659.86	42.08	54.00	-11.92	33.36	5.16	38.86	35.30	Average	159	242	HORIZONTAL
2	11661.80	54.80	74.00	-19.20	46.08	5.16	38.86	35.30	Peak	159	242	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11659.00	45.52	54.00	-8.48	36.80	5.16	38.86	35.30	Average	100	259	VERTICAL
2	11661.74	58.90	74.00	-15.10	50.18	5.16	38.86	35.30	Peak	100	259	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 10MHz Ch 149 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 19, 2012	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11488.88	37.55	54.00	-16.45	28.94	5.11	38.78	35.28	Average	101	107	HORIZONTAL
2	11492.64	50.42	74.00	-23.58	41.81	5.11	38.78	35.28	Peak	101	107	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11491.60	44.63	54.00	-9.37	36.02	5.11	38.78	35.28	Average	164	89	VERTICAL
2	11491.60	58.22	74.00	-15.78	49.61	5.11	38.78	35.28	Peak	164	89	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n MCS0 10MHz Ch 157 / Chain 1 + Chain 2 + Chain 3
Test Date	Jul. 19, 2012	Test Mode	Mode 2

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11568.22	54.65	74.00	-19.35	45.99	5.13	38.83	35.30	Peak	152	112	HORIZONTAL
2	11569.08	40.07	54.00	-13.93	31.41	5.13	38.83	35.30	Average	152	112	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	Remark	A/Pos	T/Pos	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB		cm	deg	
1	11566.20	55.94	74.00	-18.06	47.29	5.13	38.82	35.30	Peak	100	262	VERTICAL
2	11567.88	42.42	54.00	-11.58	33.76	5.13	38.83	35.30	Average	100	262	VERTICAL