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FCC RADIO TEST REPORT

Applicant's company	Enterasys Networks
Applicant Address	50 Minuteman Road Andover MA 01810
FCC ID	QXO-OAP36B
Manufacturer's company	Accton Technology Corporation
Manufacturer Address	No. 1 Creation Rd., III, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C.

Product Name	HiPath Wireless Outdoor Access Point
Brand Name	Enterasys
Model Name	WS-AP3660
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Received Date	Jul. 20, 2010
Final Test Date	Feb. 09, 2011
Submission Type	Class II Change
Class II Change	Please refer to section 3.7



Statement

Test result included is only for the IEEE 802.11n, IEEE 802.11b/g part 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 C63.4-2003 and 47 CFR FCC Part 15 Subpart C.

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



Testing Laboratory
1190

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History of This Test Report

- No additional attachment.
- Additional attachment were issued as following record:

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR072010-02AB	Rev. 01	Initial issue of report	Feb. 08, 2011
FR072010-02AB	Rev. 02	Modified Final Test Date	Mar. 11, 2011



1. CERTIFICATE OF COMPLIANCE

Product Name : HiPath Wireless Outdoor Access Point
Brand Name : Enterasys
Model Name : WS-AP3660
Applicant : Enterasys Networks
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 Jul. 20, 2010 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 2011.3.14

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	5.84 dB
4.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	0.41 dB
4.3	15.247(e)	Power Spectral Density	Complies	1.33 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions Below 1GHz	Complies	3.09 dB
4.5	15.247(d)	Radiated Emissions Above 1GHz	Complies	0.42 dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.05 dB
4.7	15.203	Antenna Requirements	Complies	-

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~1000MHz)	±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	For Ant. 1, Ant. 2: WLAN (2TX, 2RX) For Ant. 3, Ant. 4, Ant. 5, Ant. 6, Ant. 7, Ant. 8: WLAN (3TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	From Power Adapter & POE
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	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	For 2.4GHz Band: 11 for 20MHz bandwidth ; 9 for 40MHz bandwidth For 5GHz Band: 5 for 20MHz bandwidth ; 2 for 40MHz bandwidth
Channel Band Width (99%)	For 2.4GHz Band: For Mode 3 (Ant. 3): MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.16 MHz For Mode 4 (Ant. 4): MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.32 MHz For Mode 5 (Ant. 5): MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.40 MHz For Mode 7 (Ant. 7): MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.24 MHz For Mode 8 (Ant. 8): MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz For 5GHz Band: For Mode 1 (Ant. 1): MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.40 MHz For Mode 2 (Ant. 2): MCS8 (20MHz): 17.88 MHz ; MCS8 (40MHz): 36.40 MHz For Mode 4 (Ant. 4): MCS8 (20MHz): 18.16 MHz ; MCS8 (40MHz): 36.56 MHz For Mode 6 (Ant. 6): MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.00 MHz For Mode 7 (Ant. 7):

	<p>MCS8 (20MHz): 17.80 MHz ; MCS8 (40MHz): 36.56 MHz</p> <p>For Mode 8 (Ant. 8):</p> <p>MCS8 (20MHz): 18.16 MHz ; MCS8 (40MHz): 36.56 MHz</p>
<p>Conducted Output Power</p>	<p>For 2.4GHz Band:</p> <p>For Mode 3 (Ant. 3):</p> <p>MCS8 (20MHz): 20.97 dBm ; MCS8 (40MHz): 17.67 dBm</p> <p>For Mode 4 (Ant. 4):</p> <p>MCS8 (20MHz): 28.90 dBm ; MCS8 (40MHz): 21.30 dBm</p> <p>For Mode 5 (Ant. 5):</p> <p>MCS8 (20MHz): 25.03 dBm ; MCS8 (40MHz): 19.25 dBm</p> <p>For Mode 7 (Ant. 7):</p> <p>MCS8 (20MHz): 29.12 dBm ; MCS8 (40MHz): 23.65 dBm</p> <p>For Mode 8 (Ant. 8):</p> <p>MCS8 (20MHz): 27.77 dBm ; MCS8 (40MHz): 23.65 dBm</p> <p>For 5GHz Band:</p> <p>For Mode 1 (Ant. 1):</p> <p>MCS8 (20MHz): 20.59 dBm ; MCS8 (40MHz): 20.24 dBm</p> <p>For Mode 2 (Ant. 2):</p> <p>MCS8 (20MHz): 27.56 dBm ; MCS8 (40MHz): 26.81 dBm</p> <p>For Mode 4 (Ant. 4):</p> <p>MCS8 (20MHz): 28.53 dBm ; MCS8 (40MHz): 28.12 dBm</p> <p>For Mode 6 (Ant. 6):</p> <p>MCS8 (20MHz): 25.48 dBm ; MCS8 (40MHz): 24.96 dBm</p> <p>For Mode 7 (Ant. 7):</p> <p>MCS8 (20MHz): 28.22 dBm ; MCS8 (40MHz): 28.12 dBm</p> <p>For Mode 8 (Ant. 8):</p> <p>MCS8 (20MHz): 28.53 dBm ; MCS8 (40MHz): 28.12 dBm</p>

802.11a/b/g

Items	Description
Product Type	For Ant. 1, Ant. 2: WLAN (2TX, 2RX) For Ant. 3, Ant. 4, Ant. 5, Ant. 6, Ant. 7, Ant. 8: WLAN (3TX, 3RX)
Radio Type	Intentional Transceiver
Power Type	From Power Adapter & POE
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11a/g
Data Modulation	DSSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	11b/g: 11 ; 11a: 5
Channel Band Width (99%)	For Mode 1 (Ant. 1): 11a: 16.44 MHz For Mode 2 (Ant. 2): 11a: 17.48 MHz For Mode 3 (Ant. 3): 11b: 15.12 MHz ; 11g: 16.48 MHz For Mode 4 (Ant. 4): 11b: 15.28 MHz ; 11g: 16.48 MHz ; 11a: 19.00 MHz For Mode 5 (Ant. 5): 11b: 15.64 MHz ; 11g: 16.76 MHz For Mode 6 (Ant. 6): 11a: 16.56 MHz For Mode 7 (Ant. 7): 11b: 15.36 MHz ; 11g: 16.40 MHz ; 11a: 17.04 MHz For Mode 8 (Ant. 8): 11b: 15.36 MHz ; 11g: 16.40 MHz ; 11a: 17.04 MHz
Conducted Output Power	For Mode 1 (Ant. 1): 11a: 20.56 MHz For Mode 2 (Ant. 2): 11a: 21.21 dBm For Mode 3 (Ant. 3): 11b: 25.44 dBm ; 11g: 20.56 dBm For Mode 4 (Ant. 4): 11b: 26.52 dBm ; 11g: 27.83 dBm ; 11a: 28.60 dBm For Mode 5 (Ant. 5): 11b: 24.90 dBm ; 11g: 24.65 dBm ; For Mode 6 (Ant. 6): 11a: 25.38 dBm For Mode 7 (Ant. 7): 11b: 27.14 dBm ; 11g: 29.42 dBm ; 11a: 28.05 dBm For Mode 8 (Ant. 8): 11b: 27.14 dBm ; 11g: 29.42 dBm ; 11a: 28.05 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Note: Due to the system cannot execute RF program, so only use module to test in this report.

<For Ant.1, Ant. 2>: Antenna & Band width

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

<For Ant. 3, Ant. 4, Ant. 5, Ant. 6, Ant. 7, Ant. 8>: Antenna & Band width

Antenna	Single (TX)		Three (TX)	
Band width Mode	20 MHz	40 MHz	20 MHz	40 MHz
IEEE 802.11a	X	X	V	X
IEEE 802.11b	X	X	V	X
IEEE 802.11g	X	X	V	X
IEEE 802.11n	X	X	V	V

IEEE 802.11n spec

MCS Index	Nss	Modulation	R	NBPS	NCBPS		NDBPS		Datarate(Mbps)			
					20MHz	40MHz	20MHz	40MHz	800nsGI		400nsGI	
									20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.444	30
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.889	60
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.333	90
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.778	120
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.667	180
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.556	240
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.000	270
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.444	300

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

3.2. Accessories

Power	Brand	Model	Rating
Adapter	UMEC	UP0601C-1273	Input: 100-240VAC, 50-60Hz, 1A Output: 12VDC, 3.33A

3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Antenna gain		Cable Loss		Test Antenna gain	
					2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band
1	MTI	MT-484026/NVH/B	Sector Antenna	Reverse N-Type	-	16	-	1	-	15
2	MTI	MT-485025/NVH	Panel Antenna	Reverse N-Type	-	23	-	1	-	22
3	PCTEL	WISP24018PTNF	Panel Antenna	Reverse N-Type	18	-	0.5	-	17.5	-
4	MARS	MA-WE2458-3H2	Sector Antenna	Reverse N-Type	5	5	0.5	1	4.5	4
5	PCTEL	MFB24010	Omni Antenna	Reverse N-Type	10	-	0.5	-	9.5	-
6	PCTEL	MFB58010	Omni Antenna	Reverse N-Type	-	10	-	1	-	9
7	Laird	S24493BPX	Omni Antenna	Reverse N-Type	5	5	0.5	1	4.5	4
8	MARS	MA-DBO2458-6N	Omni Antenna	Reverse N-Type	5	7	0.5	1.0	4.5	6

Note: <For Ant. 1, Ant. 2 (2TX/2RX)>:

The EUT has three antenna connectors that can be used for transmitting and receiving simultaneously as 2TX and 2RX.

Connector J2 and J4 can both receive/transmit simultaneously.

Ant. 1: 5GHz Antenna (Band 2, Band 4)

Ant. 2: 5GHz Antenna (Band 4), Ant. 2 supports point-to-point function.

<For Ant. 3, Ant. 4, Ant. 5, Ant. 6, Ant. 7, Ant. 8 (3TX/3RX)>:

The EUT has three antenna connectors that can be used for transmitting and receiving simultaneously as 3TX and 3RX.

Connector J2, J3 and J4 can both receive/transmit simultaneously.

Ant. 3: 2.4GHz Antenna, Ant. 3 supports point-to-point function.

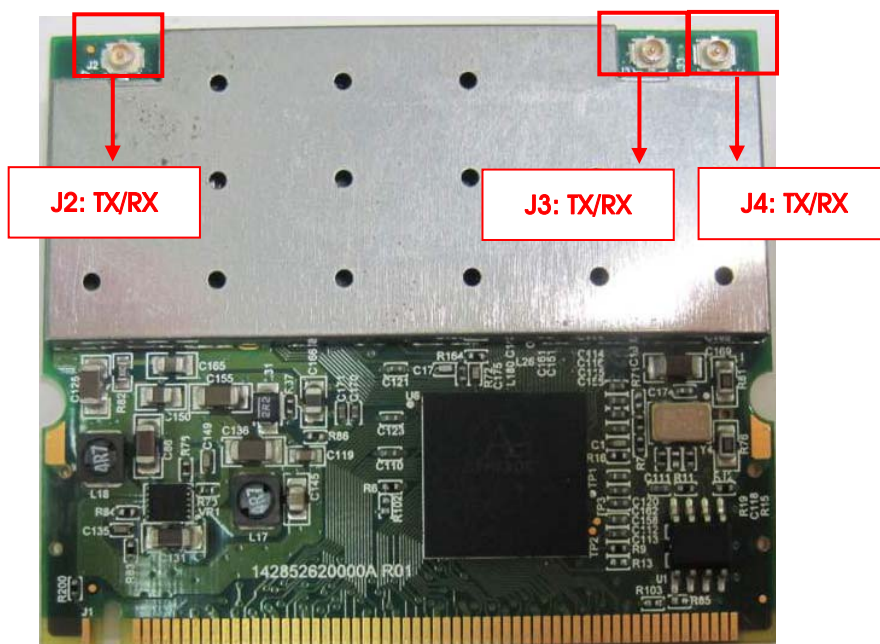
Ant. 4: 2.4GHz / 5GHz Antenna (Band 2, Band 4)

Ant. 5: 2.4GHz Antenna

Ant. 6: 5GHz Antenna (Band 4)

Ant. 7: 2.4GHz / 5GHz Antenna (Band 2, Band 4)

Ant. 8: 2.4GHz / 5GHz Antenna (Band 2, Band 4)



3.4. Table for Carrier Frequencies

For 2.4GHz Band

Frequency Allocation for IEEE 802.11b/g

For IEEE 802.11b/g, use Channel 1~Channel 11.

There are two bandwidth systems for IEEE 802.11n.

For both 20MHz bandwidth systems, use Channel 1~Channel 11.

For both 40MHz bandwidth systems, use Channel 3~Channel 9.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz	-	-

For 5GHz Band

Frequency Allocation for IEEE 802.11a

For IEEE 802.11a, use Channel 149, 153, 157, 161, 165.

There are two bandwidth systems for IEEE 802.11n.

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	149	5745 MHz	159	5795 MHz
	151	5755 MHz	161	5805 MHz
	153	5765 MHz	165	5825 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.

<For Ant. 1, Ant. 2>:

For 2.4GHz Band

Test Items	Mode	Data Rate	Channel	Connector
AC Power Line Conducted Emissions	TX Mode	6Mbps	6	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	1/6/11	J2/J4/J2+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2/J4/J2+J4
	11b/CCK	1 Mbps	1/6/11	J2/J4/J2+J4
	11g/BPSK	6 Mbps	1/6/11	J2/J4/J2+J4
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	1/6/11	J2+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2+J4
	11b/CCK	1 Mbps	1/6/11	J2+J4
	11g/BPSK	6 Mbps	1/6/11	J2+J4
Radiated Emissions Below 1GHz	TX Mode	6 Mbps	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	1/6/11	J2+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2+J4
	11b/CCK	1 Mbps	1/6/11	J2+J4
	11g/BPSK	6 Mbps	1/6/11	J2+J4
Band Edge Emissions	MCS8/20MHz	13 Mbps	1/11	J2+J4
	MCS8/40MHz	27 Mbps	3/9	J2+J4
	11b/CCK	1 Mbps	1/11	J2+J4
	11g/BPSK	6 Mbps	1/11	J2+J4

For 5GHz Band

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	TX Mode	6 Mbps	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	149/157/165	J2/J4/J2+J4
	MCS8/40MHz	27 Mbps	151/159	J2/J4/J2+J4
	11a/BPSK	6 Mbps	149/157/165	J2/J4/J2+J4
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	149/157/165	J2+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J4
Radiated Emissions Below 1GHz	TX Mode	6 Mbps	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	149/157/165	J2+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J4
Band Edge Emissions	MCS8/20MHz	13 Mbps	149/157/165	J2+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J4

<For Ant. 3, Ant. 4, Ant. 5, Ant. 6, Ant. 7, Ant. 8>:

For 2.4GHz Band

Test Items	Mode	Data Rate	Channel	Connector
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	1/6/11	J2/J3/J4 /J2+J3+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2/J3/J4 /J2+J3+J4
	11b/CCK	1 Mbps	1/6/11	J2/J3/J4 /J2+J3+J4
	11g/BPSK	6 Mbps	1/6/11	J2/J3/J4 /J2+J3+J4
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	1/6/11	J2+J3+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2+J3+J4
	11b/CCK	1 Mbps	1/6/11	J2+J3+J4
	11g/BPSK	6 Mbps	1/6/11	J2+J3+J4
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	1/6/11	J2+J3+J4
	MCS8/40MHz	27 Mbps	3/6/9	J2+J3+J4
	11b/CCK	1 Mbps	1/6/11	J2+J3+J4
	11g/BPSK	6 Mbps	1/6/11	J2+J3+J4
Band Edge Emissions	MCS8/20MHz	13 Mbps	1/11	J2+J3+J4
	MCS8/40MHz	27 Mbps	3/9	J2+J3+J4
	11b/CCK	1 Mbps	1/11	J2+J3+J4
	11g/BPSK	6 Mbps	1/11	J2+J3+J4

For 5GHz Band

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	149/157/165	J2/J3/J4 /J2+J3+J4
	MCS8/40MHz	27 Mbps	151/159	J2/J3/J4 /J2+J3+J4
	11a/BPSK	6 Mbps	149/157/165	J2/J3/J4 /J2+J3+J4
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	149/157/165	J2+J3+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J3+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J3+J4
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	149/157/165	J2+J3+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J3+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J3+J4
Band Edge Emissions	MCS8/20MHz	13 Mbps	149/157/165	J2+J3+J4
	MCS8/40MHz	27 Mbps	151/159	J2+J3+J4
	11a/BPSK	6 Mbps	149/157/165	J2+J3+J4

Note: All the test modes were listed as below:

Mode 1. EUT + Ant. 1 (5GHz Antenna)

Mode 2. EUT + Ant. 2 (5GHz Antenna)

Mode 3. EUT + Ant. 3 (2.4GHz Antenna)

Mode 4. EUT + Ant. 4 (2.4GHz / 5GHz Antenna)

Mode 5. EUT + Ant. 5 (2.4GHz Antenna)

Mode 6. EUT + Ant. 6 (5GHz Antenna)

Mode 7. EUT + Ant. 7 (2.4GHz / 5GHz Antenna)

Mode 8. EUT + Ant. 8 (2.4GHz / 5GHz Antenna)

<For Conducted Emission test>:

For Original Project:

After evaluating, Mode 1 and Mode 3 were selected as worse case and recorded the test data in the report.

For Class II Change:

Mode 8 was performed and recorded in this report.

<For Radiated Emissions Test Below 1GHz>:

For Original Project:

After evaluating, Mode 1 and Mode 3 were selected as worse case and recorded the test data in the report.

For Class II Change:

Mode 8 was performed and recorded in this report.

<For Radiated Emissions Test Above 1GHz>:

All the test modes were tested and recorded in the report.

<For MPE Test>:

All the test modes were tested and recorded in the report.

<For Co-location Test>:

For Original Project:

The Highest Gain of 5GHz Band: Ant. 2

The Highest Gain of 2.4GHz Band: Ant. 3

When we executed the Co-Location measurement, we used the host to test in this report.

Due to Ant. 2 is the highest gain of 5GHz Band and Ant. 3 is the highest gain of 2.4GHz Band, so they would be selected as worse case and recorded the test data in the report.

For Class II Change:

Ant. 8 was performed and recorded in this report.

The EUT could be applied with wireless LAN function 2.4GHz Band and wireless LAN function 5GHz Band; therefore Maximum Permissible Exposure (please refer to Appendix C) and Co-location (please refer to Appendix D) tests are added for simultaneously transmit between wireless LAN function 2.4GHz Band and wireless LAN function 5GHz Band.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
CO04-HY	Conduction	Hwa Ya	879474	IC 4086	-
03CH03-HY	SAC	Hwa Ya	879474	IC 4086	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

3.7. Table for Class II Change

This product is an extension of original one reported under Sporton project number: FR072010AB

Below is the table for the change of the product with respect to the original one.

Modifications	Description	Performance Checking
Add 1 antenna & UNII band (5250~5350MHz)	<p>There is no hardware or electrical modification for EUT.</p> <p>The original project was only issued for 15.247(2400~2483.5MHz & 5725~5850MHz) with 7 antennas.</p> <p>The class II change in current project is added one dual band Omni antenna & one new UNII band(5250~5350MHz) for all applicable antenna. Adding 1 Omni antenna with lower gains than original Certificate.</p>	<p>AC Power Line Conducted Emissions</p> <p>Max. Peak Conducted Output Power</p> <p>Power Spectral Density</p> <p>6dB Spectrum Bandwidth</p> <p>Radiated Emissions</p> <p>Band Edge Emissions</p> <p>Co-Location Test</p>

3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	D400	E2K24GBRL
Wireless AP	Planex	GW-AP54SGX	N/A

3.9. 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.

<For Mode 1 (Ant. 1)>:

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	16	16	15.5

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	16	16

Power Parameters of IEEE 802.11a

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	16	16	16

<For Mode 2 (Ant. 2)>:

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	20	21	21

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	17.5	21

Power Parameters of IEEE 802.11a

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	21	21	21

<For Mode 3 (Ant. 3)>:

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	11	13	10.5

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	6	10	5.5

Power Parameters of IEEE 802.11b/g

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	16	18	15.5
IEEE 802.11g	12	13	11.5

<For Mode 4 (Ant. 4)>:

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	13	19	13.5

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	12	14	12.5

Power Parameters of IEEE 802.11b/g

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	16	19	16
IEEE 802.11g	14	19	14.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	21	21	21

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	21	21

Power Parameters of IEEE 802.11a

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	21	21	21

<For Mode 5 (Ant. 5)>:

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	12.5	17.5	14

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	10	13.5	11

Power Parameters of IEEE 802.11b/g

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	17	19.5	17.5
IEEE 802.11g	13	18	14.0

<For Mode 6 (Ant. 6)>:

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	18	18	18

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	18	18

Power Parameters of IEEE 802.11a

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	18	18	18

<For Mode 7 (Ant. 7)>:

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	13.5	19	14

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	12	14.5	12.5

Power Parameters of IEEE 802.11b/g

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	16.5	19.5	17
IEEE 802.11g	14.5	20	14.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	16.5	19	21

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	17	21

Power Parameters of IEEE 802.11a

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	16.5	19	21

<For Mode 8 (Ant. 8)>:

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	14	18.5	14

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	12.5	14.5	12.5

Power Parameters of IEEE 802.11b/g

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	16.5	19.5	18
IEEE 802.11g	14.5	20	14.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	21.5	19	19

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	0.9 BUILD #21 ART 11_n	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	19	21

Power Parameters of IEEE 802.11a

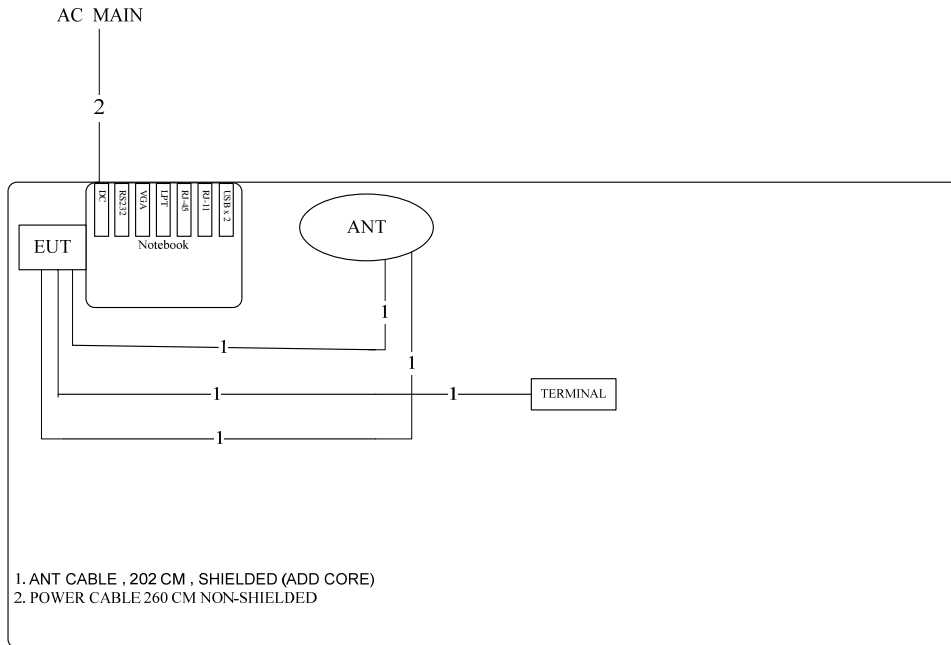
Test Software Version	0.9 BUILD #21 ART 11_n		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20.5	19	21

During the test, "0.9 BUILD #21 ART 11_n" under WIN XP was executed to control the EUT continuously transmit RF signal.

3.10. Test Configurations

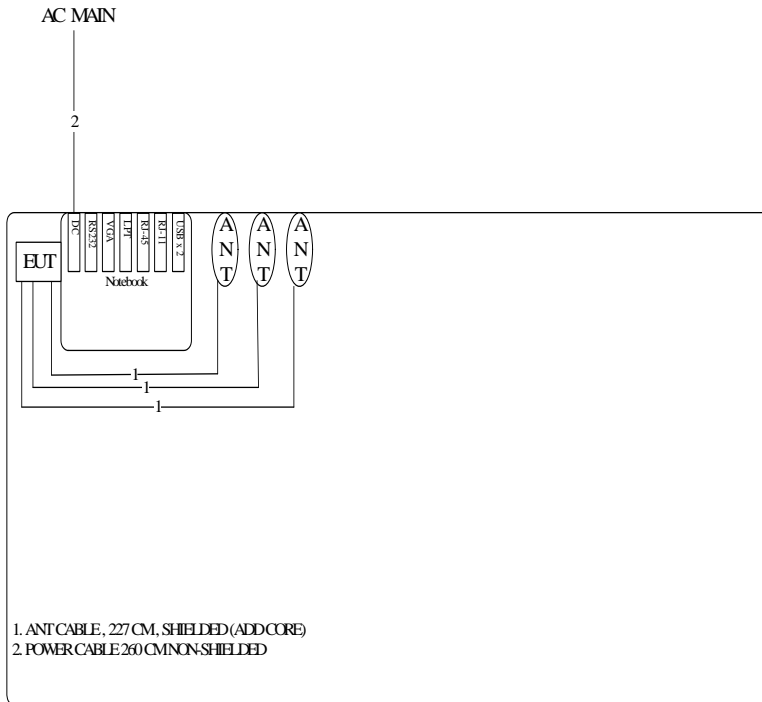
3.10.1. AC Power Line Conducted Emissions Test Configuration

<For Mode 1 (Ant. 1)> <5GHz Antenna>:

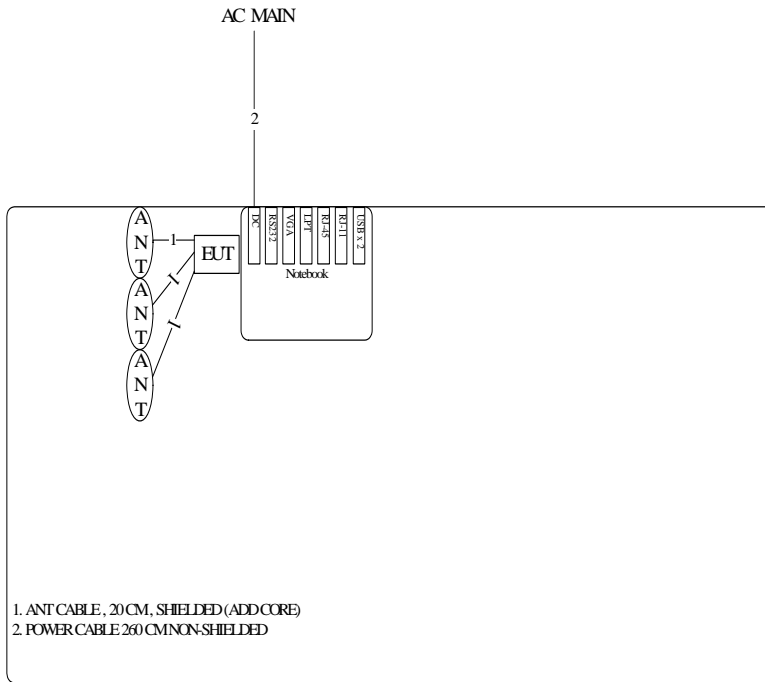


AP

<For Mode 3 (Ant. 3)> <2.4GHz Antenna>:



<For Mode 8 (Ant. 8)> <2.4GHz / 5GHz Antenna>:

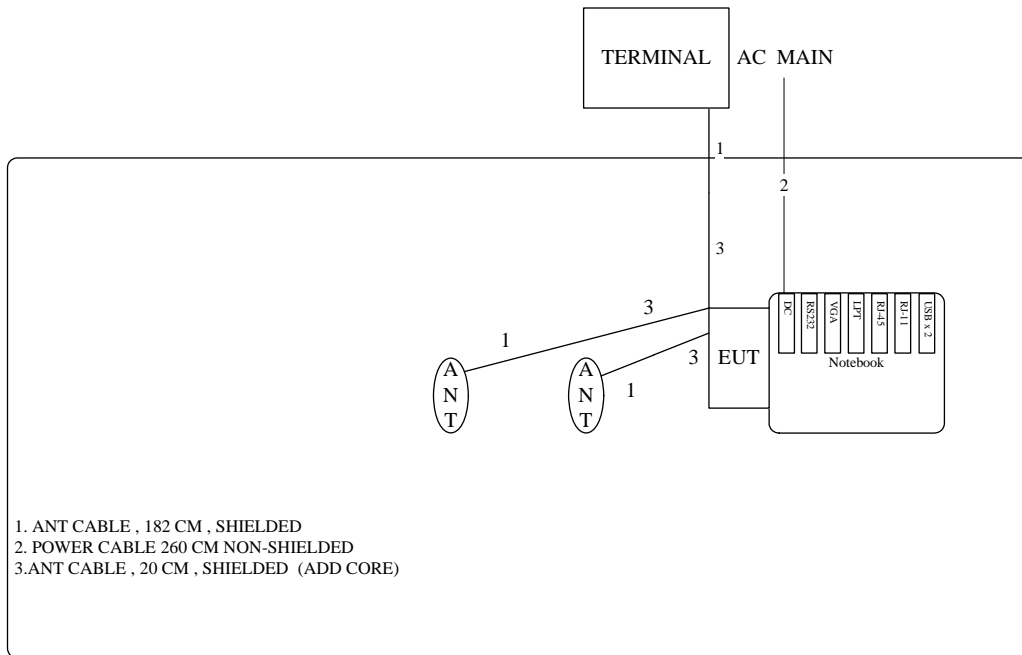


3.10.2. Radiation Emissions Test Configuration

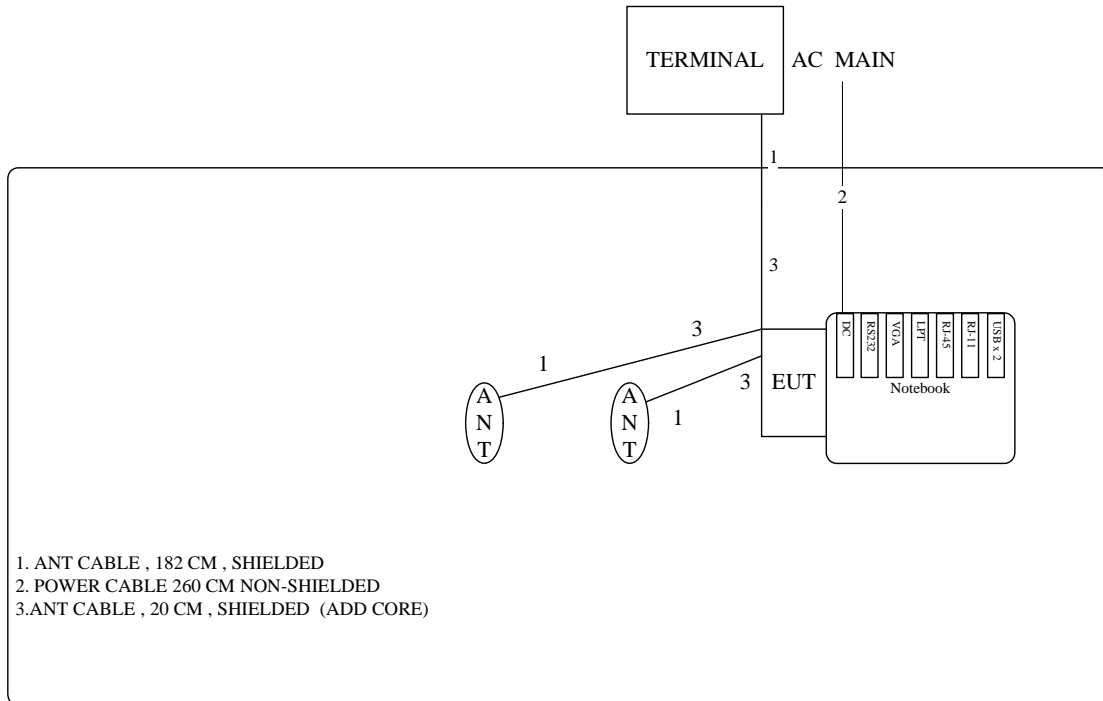
<For Mode 1 (Ant. 1)>:

<For WLAN Function>

Test Configuration: 9kHz~1GHz



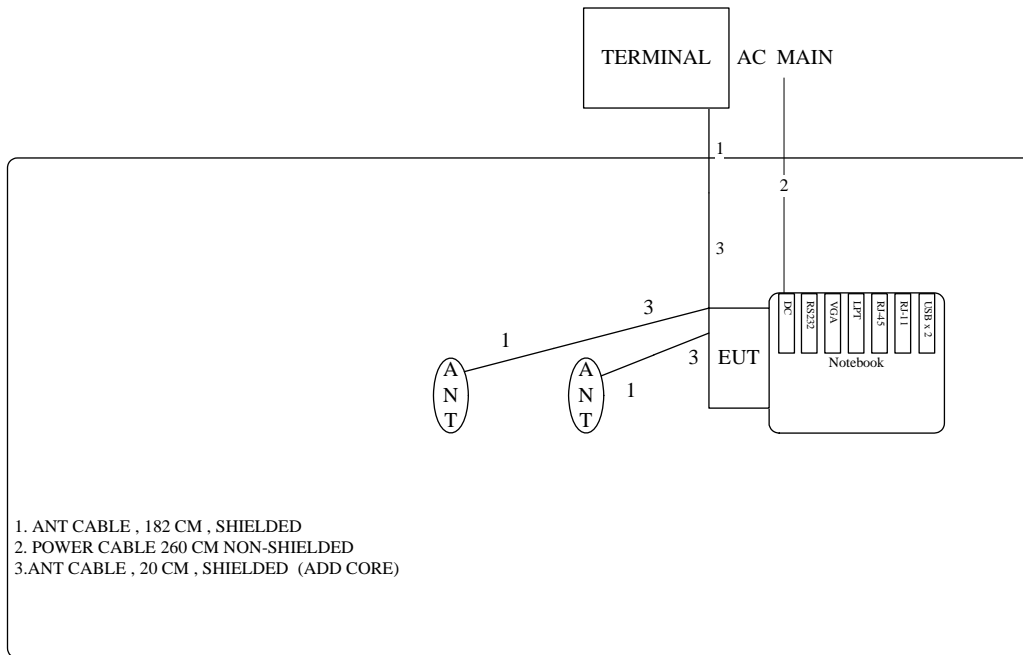
Test Configuration: above 1GHz



<For Mode 2 (Ant. 2)>:

<For WLAN Function>

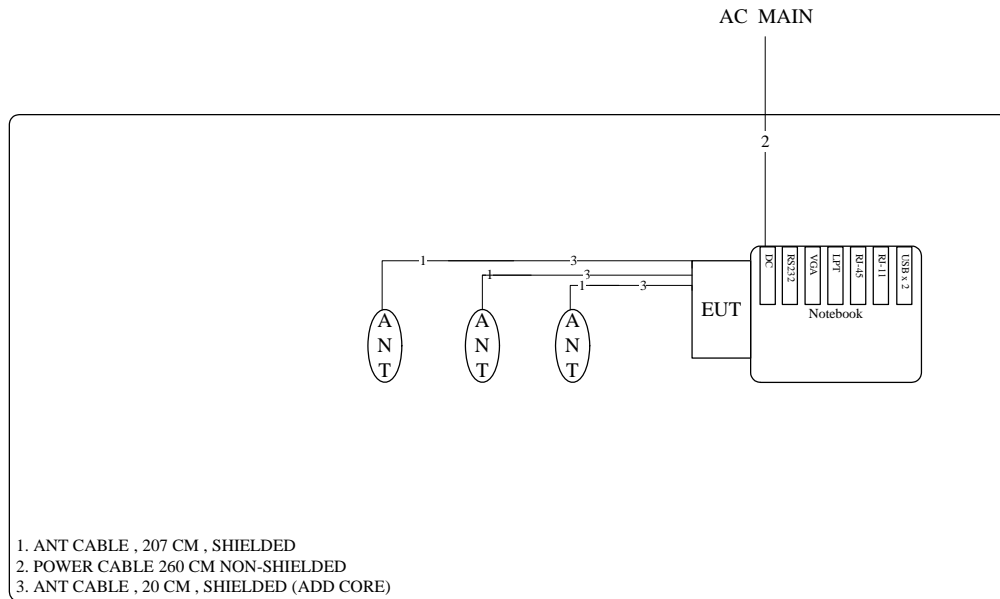
Test Configuration: above 1GHz



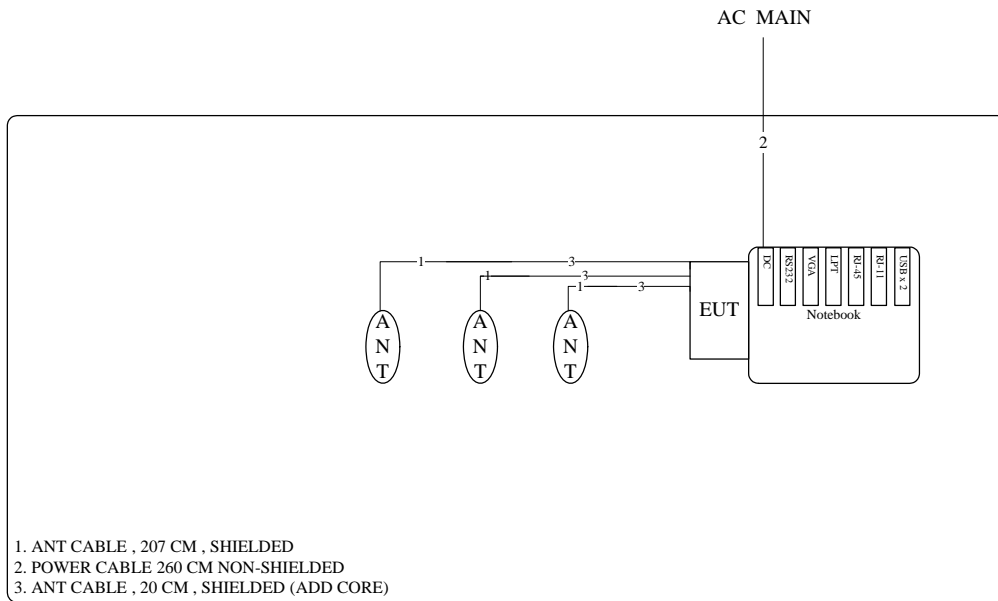
<For Mode 3 (Ant. 3)>:

<For WLAN Function>

Test Configuration: 9kHz~1GHz



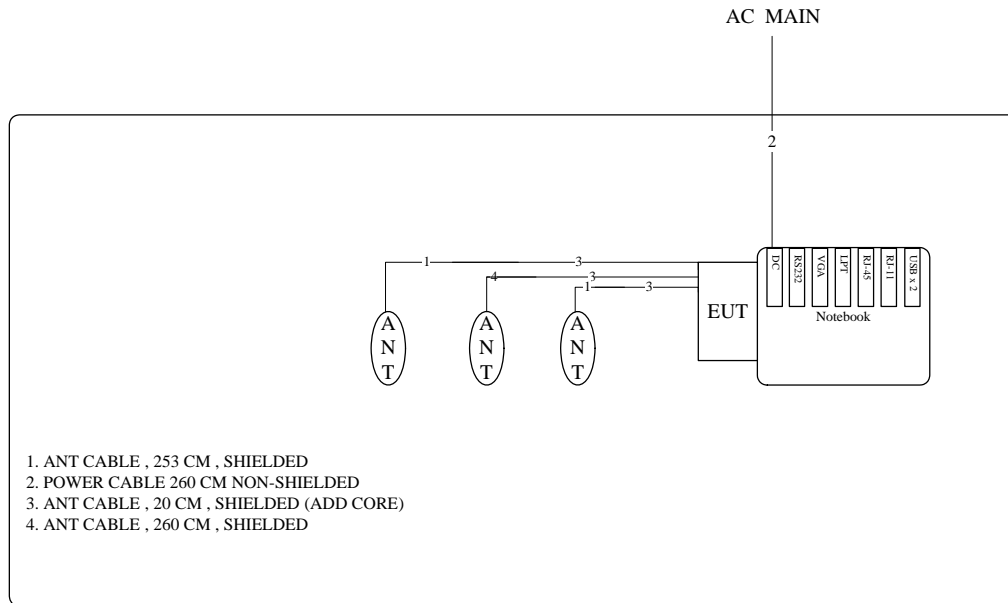
Test Configuration: above 1GHz



<For Mode 4 (Ant. 4)>:

<For WLAN Function>

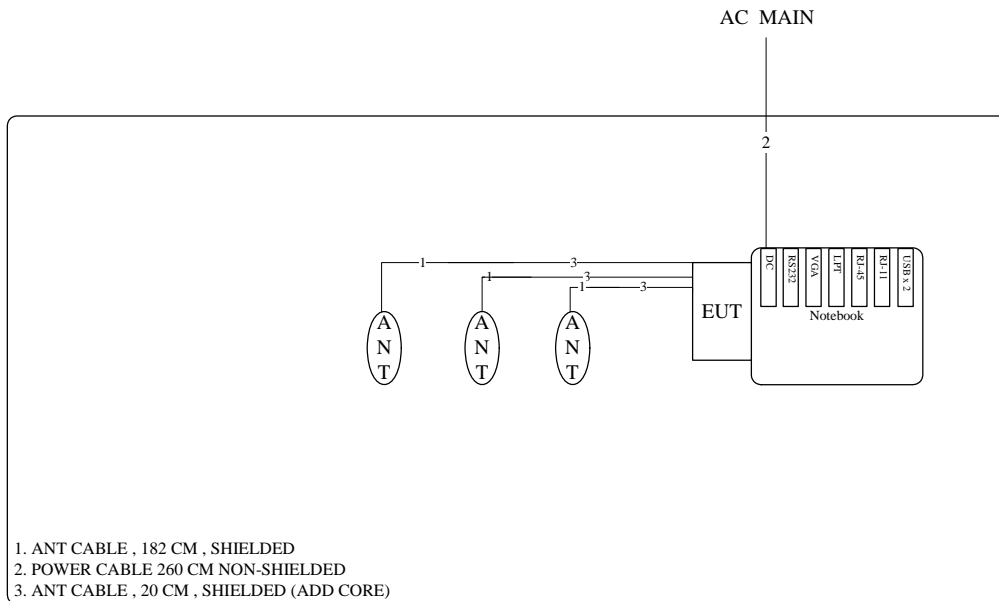
Test Configuration: above 1GHz



<For Mode 5 (Ant. 5), Mode 6 (Ant. 6)>:

<For WLAN Function>

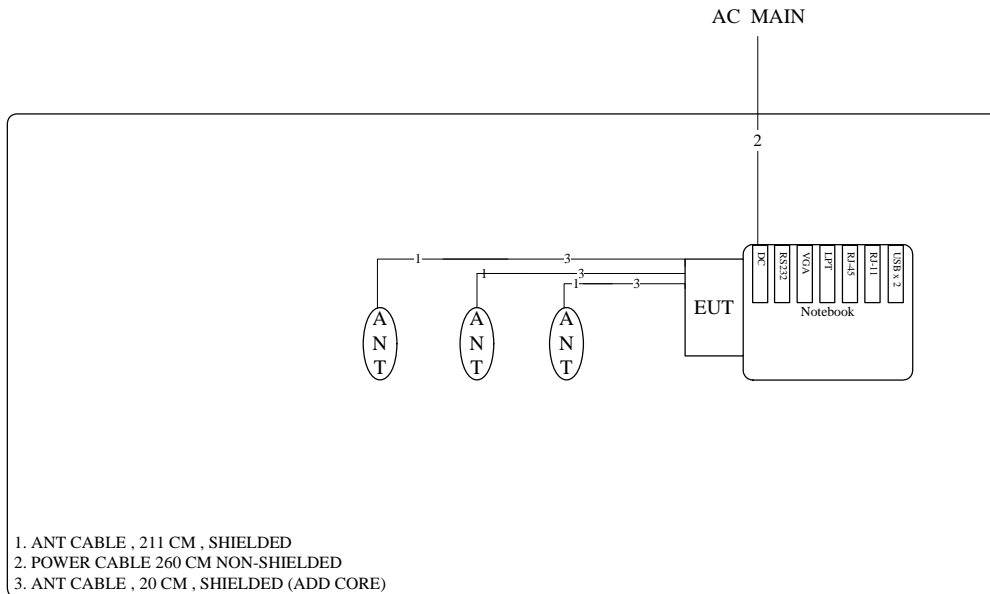
Test Configuration: above 1GHz



<For Mode 7 (Ant. 7)>

<For WLAN Function>

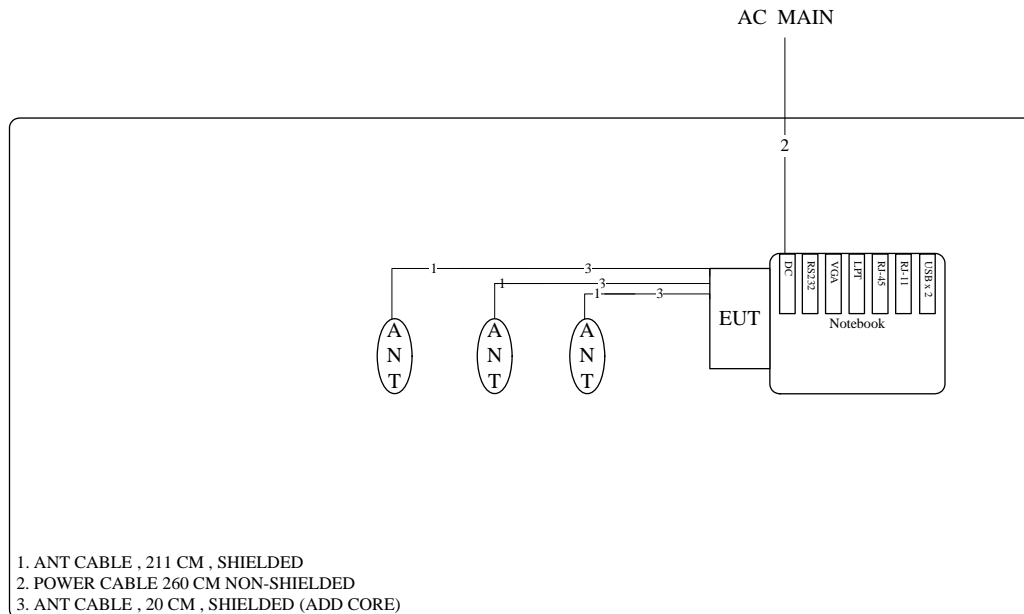
Test Configuration: above 1GHz



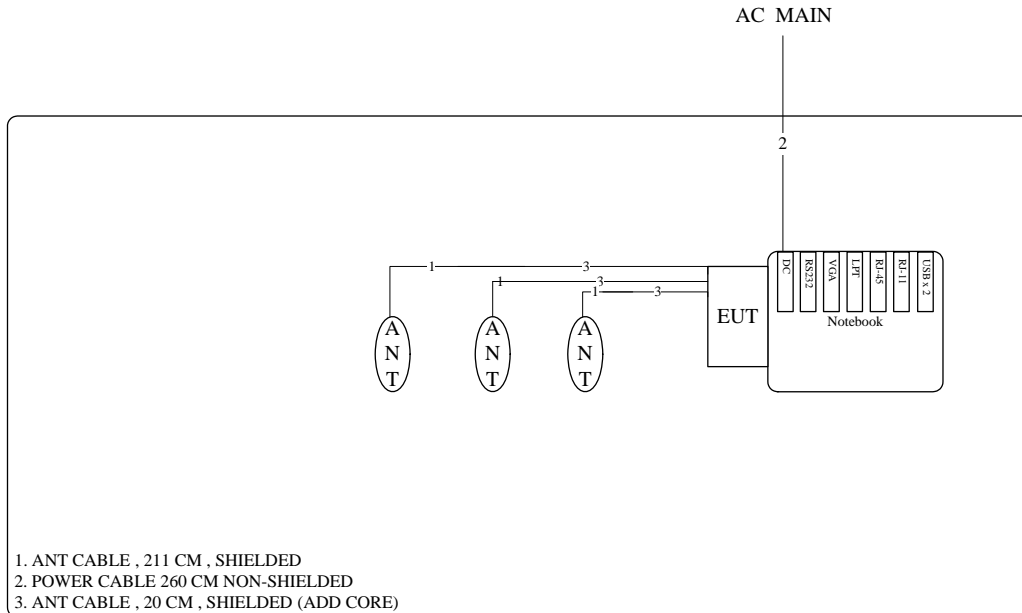
<For Mode 8 (Ant. 8)>

<For WLAN Function>

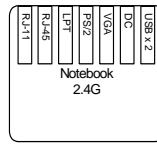
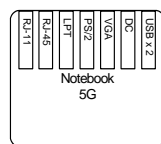
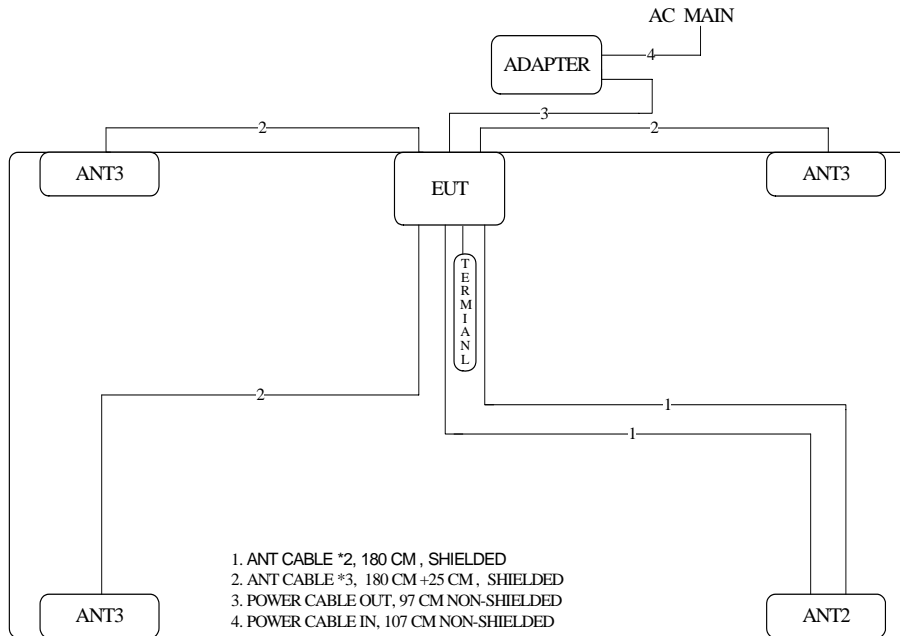
Test Configuration: 9kHz~1GHz



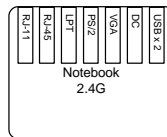
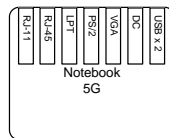
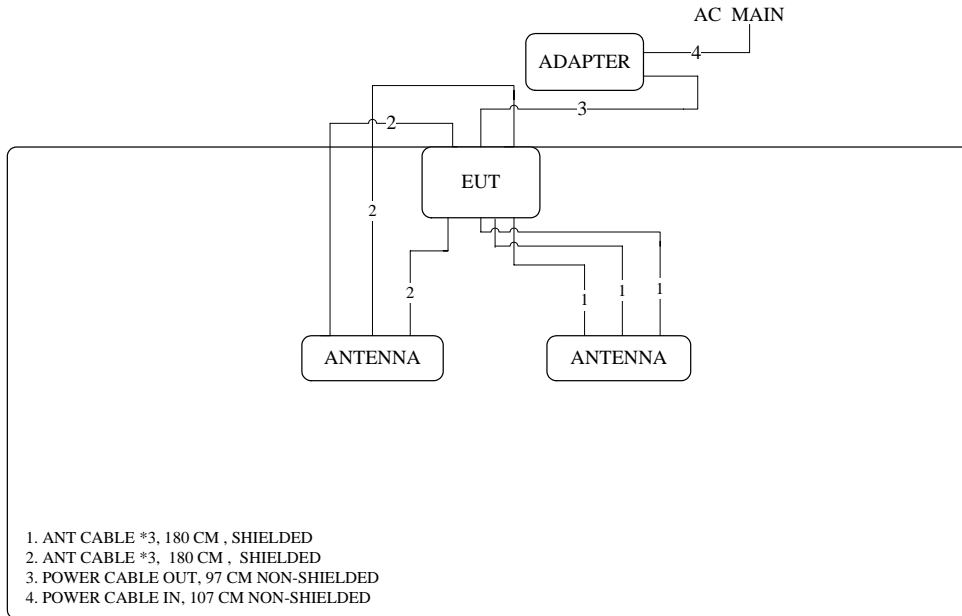
Test Configuration: above 1GHz



<For Co-location Function> <Ant. 2 (5GHz Band)+Ant. 3 (2.4GHz Band)>:



<For Co-location Function> <Ant. 8 (5GHz Band)+Ant. 8 (2.4GHz Band)>:



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.

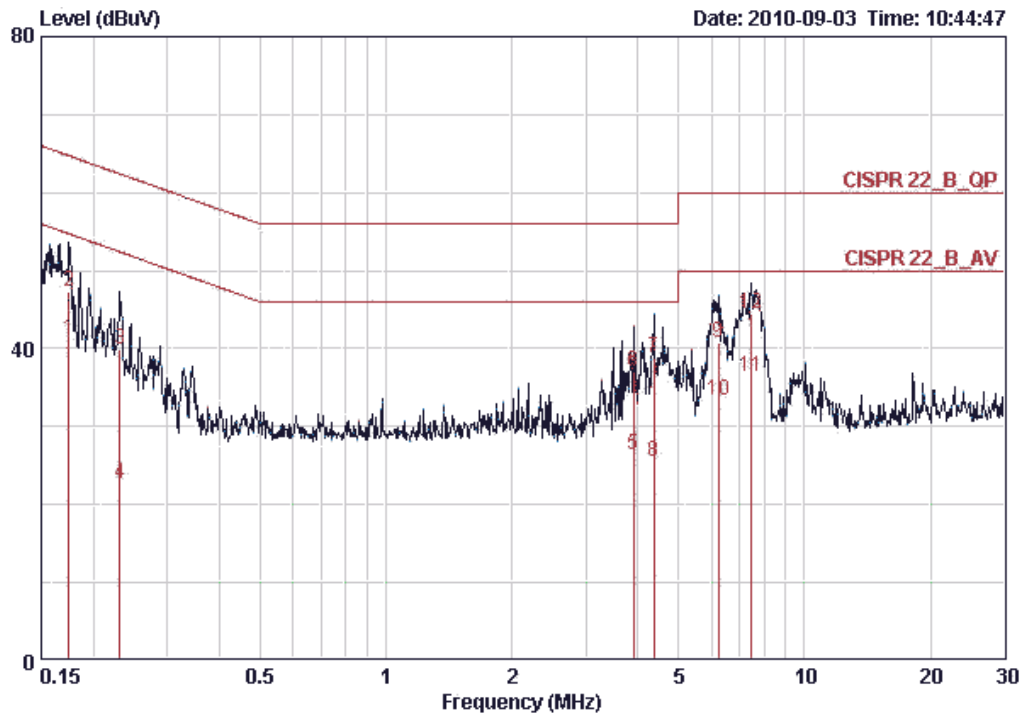
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. Test Procedures

1. 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.

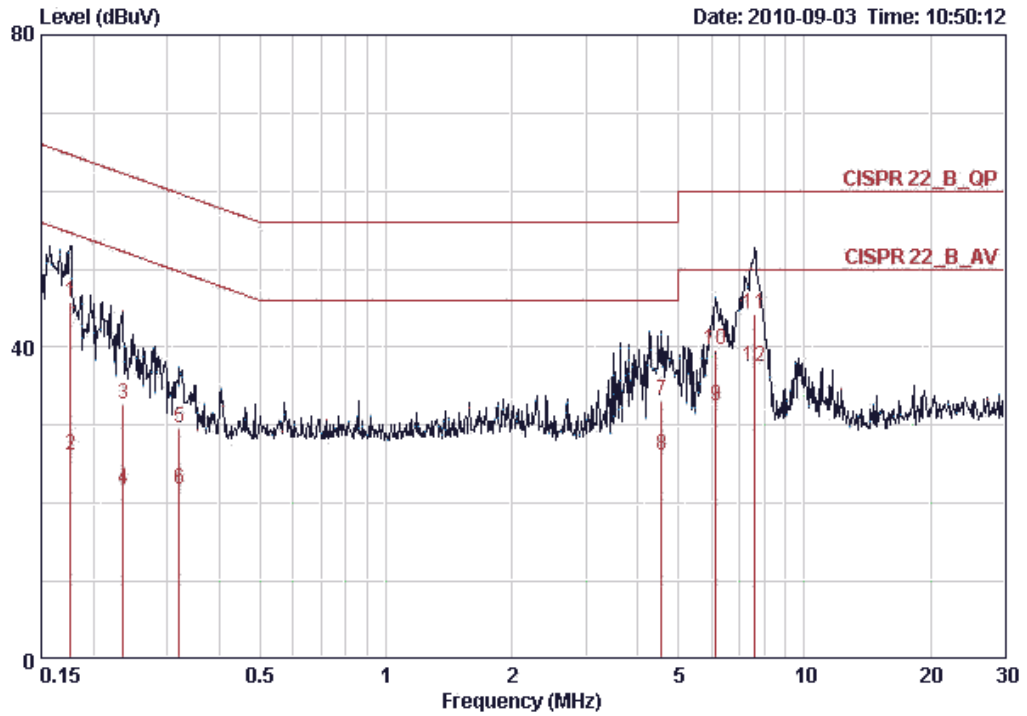
4.1.6. Results of AC Power Line Conducted Emissions Measurement

Temperature	26°C	Humidity	55%
Test Engineer	Beck Wu	Phase	Line
Configuration	TX Mode / Mode 1 (Ant. 1)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17491	41.12	-13.60	54.72	40.86	0.06	0.20	AVERAGE
2	0.17491	47.22	-17.50	64.72	46.96	0.06	0.20	QP
3	0.23162	39.94	-22.46	62.39	39.69	0.05	0.20	QP
4	0.23162	22.72	-29.68	52.39	22.47	0.05	0.20	AVERAGE
5	3.901	26.34	-19.66	46.00	25.94	0.10	0.30	AVERAGE
6	3.901	37.15	-18.85	56.00	36.75	0.10	0.30	QP
7	4.361	38.84	-17.16	56.00	38.42	0.12	0.30	QP
8	4.361	25.47	-20.53	46.00	25.05	0.12	0.30	AVERAGE
9	6.219	40.76	-19.24	60.00	40.20	0.22	0.34	QP
10	6.219	33.39	-16.61	50.00	32.83	0.22	0.34	AVERAGE
11	7.486	36.48	-13.52	50.00	35.81	0.27	0.39	AVERAGE
12	7.486	44.50	-15.50	60.00	43.83	0.27	0.39	QP

Temperature	26°C	Humidity	55%
Test Engineer	Beck Wu	Phase	Neutral
Configuration	TX Mode / Mode 1 (Ant. 1)		

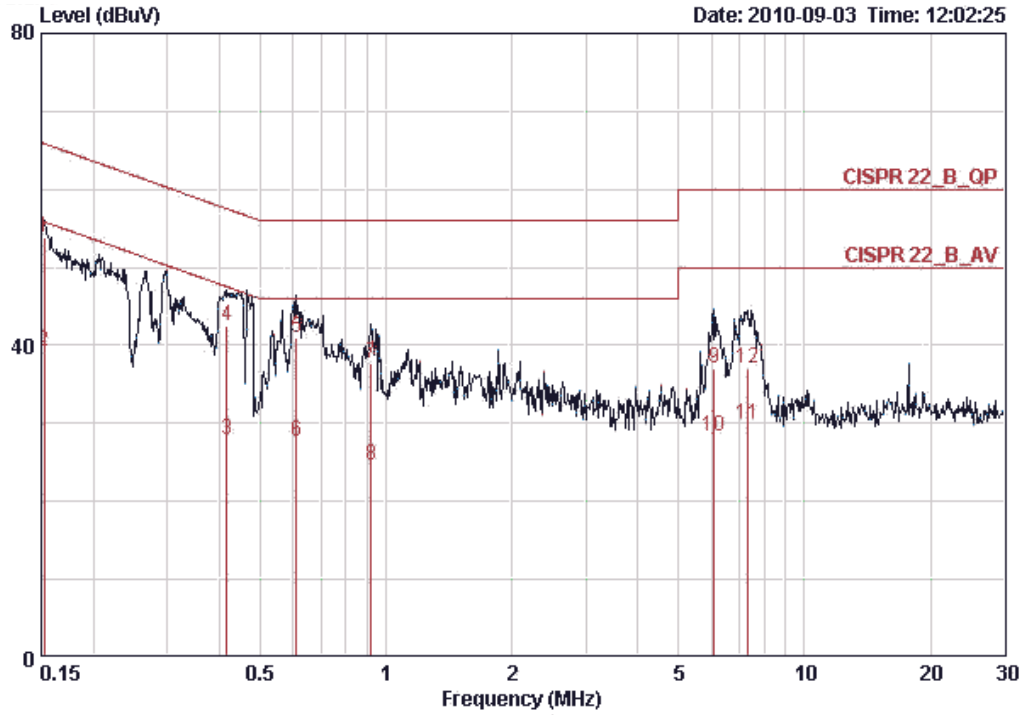


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17584	45.79	-18.89	64.68	45.50	0.09	0.20	QP
2	0.17584	26.23	-28.45	54.68	25.94	0.09	0.20	AVERAGE
3	0.23533	32.77	-29.49	62.26	32.49	0.08	0.20	QP
4	0.23533	21.73	-30.53	52.26	21.45	0.08	0.20	AVERAGE
5	0.31999	29.66	-30.04	59.71	29.39	0.07	0.20	QP
6	0.31999	21.76	-27.94	49.71	21.49	0.07	0.20	AVERAGE
7	4.549	33.13	-22.87	56.00	32.66	0.17	0.30	QP
8	4.549	26.15	-19.85	46.00	25.68	0.17	0.30	AVERAGE
9	6.153	32.47	-17.53	50.00	31.88	0.26	0.34	AVERAGE
10	6.153	39.73	-20.27	60.00	39.14	0.26	0.34	QP
11	7.606	44.28	-15.72	60.00	43.57	0.32	0.40	QP
12	7.606	37.41	-12.59	50.00	36.70	0.32	0.40	AVERAGE

Note:

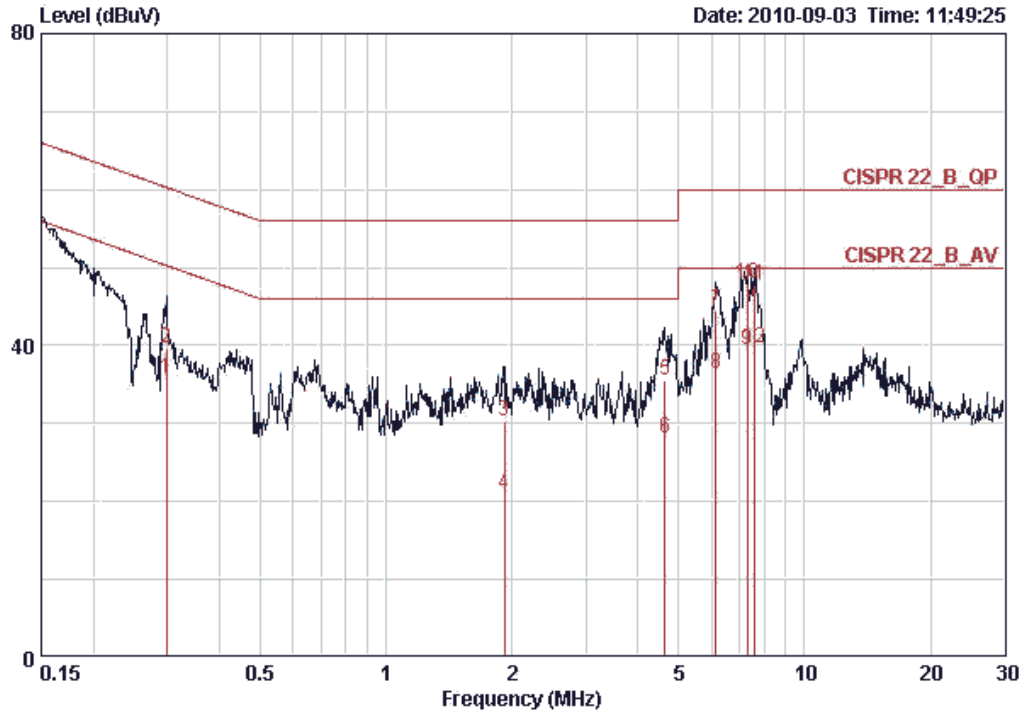
Level = Read Level + LISN Factor + Cable Loss.

Temperature	26°C	Humidity	55%
Test Engineer	Beck Wu	Phase	Line
Configuration	TX Mode / Mode 3 (Ant. 3)		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15240	53.77	-12.09	65.87	53.50	0.07	0.20	QP
2	0.15240	39.21	-16.65	55.87	38.94	0.07	0.20	AVERAGE
3	0.41705	27.83	-19.68	47.51	27.60	0.03	0.20	AVERAGE
4	0.41705	42.42	-15.09	57.51	42.19	0.03	0.20	QP
5	0.61075	40.96	-15.04	56.00	40.73	0.03	0.20	QP
6	0.61075	27.63	-18.37	46.00	27.40	0.03	0.20	AVERAGE
7	0.92330	37.69	-18.31	56.00	37.46	0.03	0.20	QP
8	0.92330	24.60	-21.40	46.00	24.37	0.03	0.20	AVERAGE
9	6.089	36.96	-23.04	60.00	36.43	0.22	0.32	QP
10	6.089	28.43	-21.57	50.00	27.90	0.22	0.32	AVERAGE
11	7.290	29.81	-20.19	50.00	29.19	0.26	0.36	AVERAGE
12	7.290	37.05	-22.95	60.00	36.43	0.26	0.36	QP

Temperature	26°C	Humidity	55%
Test Engineer	Beck Wu	Phase	Neutral
Configuration	TX Mode / Mode 3 (Ant. 3)		

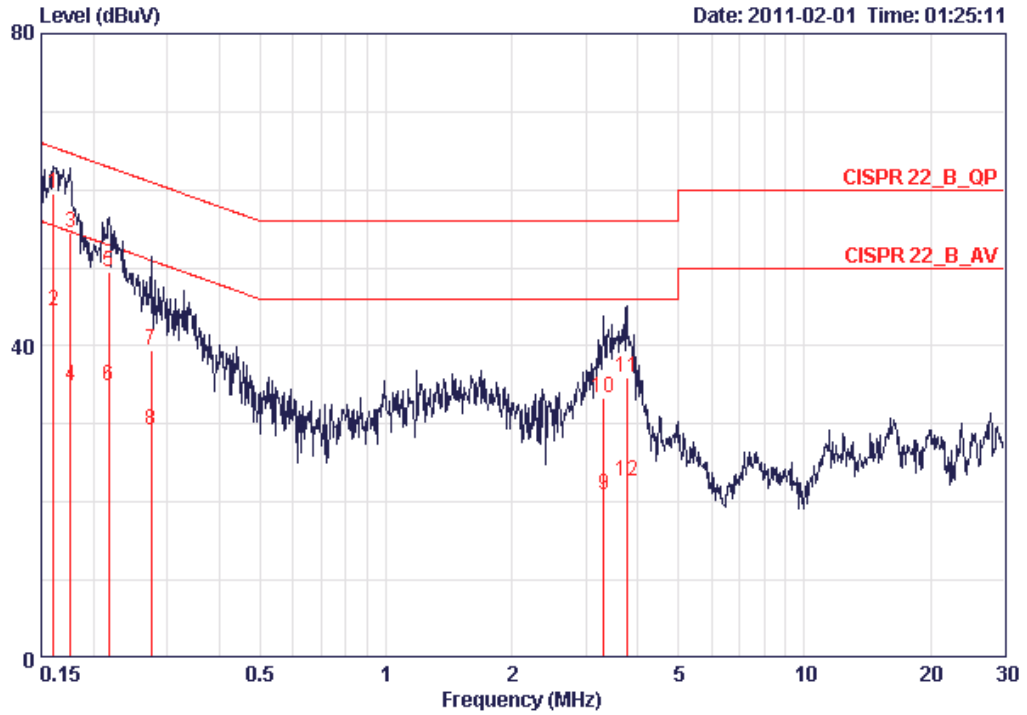


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.29869	35.85	-14.42	50.28	35.58	0.07	0.20	AVERAGE
2	0.29869	39.63	-20.64	60.28	39.36	0.07	0.20	QP
3	1.918	30.21	-25.79	56.00	29.94	0.09	0.19	QP
4	1.918	20.85	-25.15	46.00	20.58	0.09	0.19	AVERAGE
5	4.647	35.50	-20.50	56.00	35.02	0.18	0.30	QP
6	4.647	28.12	-17.88	46.00	27.64	0.18	0.30	AVERAGE
7	6.153	44.52	-15.48	60.00	43.93	0.26	0.34	QP
8	6.153	36.36	-13.64	50.00	35.77	0.26	0.34	AVERAGE
9	7.290	39.53	-10.47	50.00	38.87	0.30	0.36	AVERAGE
10	7.290	47.88	-12.12	60.00	47.22	0.30	0.36	QP
11	7.566	47.70	-12.30	60.00	46.99	0.31	0.40	QP
12	7.566	39.65	-10.35	50.00	38.94	0.31	0.40	AVERAGE

Note:

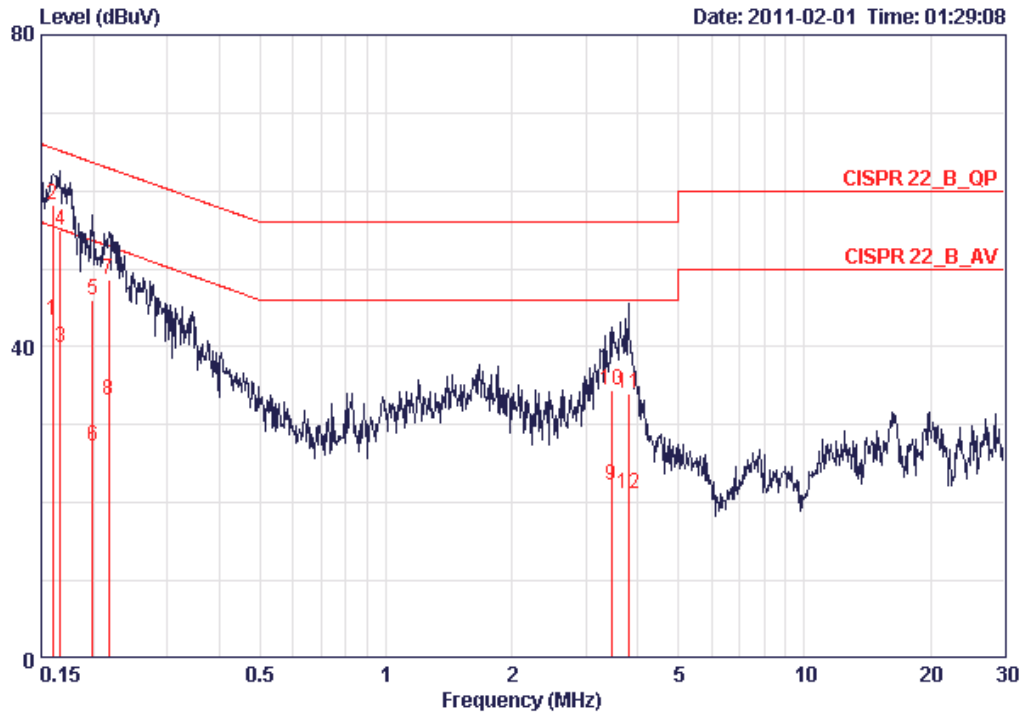
Level = Read Level + LISN Factor + Cable Loss.

Temperature	26°C	Humidity	55%
Test Engineer	Ryo Fan	Phase	Line
Configuration	TX Mode / Mode 8 (Ant. 8)		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16070	59.59	-5.84	65.43	59.32	0.07	0.20	QP
2	0.16070	44.40	-11.03	55.43	44.13	0.07	0.20	AVERAGE
3	0.17584	54.47	-10.21	64.68	54.21	0.06	0.20	QP
4	0.17584	34.93	-19.75	54.68	34.67	0.06	0.20	AVERAGE
5	0.21735	49.55	-13.37	62.92	49.30	0.05	0.20	QP
6	0.21735	34.83	-18.09	52.92	34.58	0.05	0.20	AVERAGE
7	0.27442	39.45	-21.53	60.98	39.21	0.04	0.20	QP
8	0.27442	29.13	-21.85	50.98	28.89	0.04	0.20	AVERAGE
9	3.310	20.86	-25.14	46.00	20.51	0.09	0.26	AVERAGE
10	3.310	33.26	-22.74	56.00	32.91	0.09	0.26	QP
11	3.759	36.07	-19.93	56.00	35.67	0.10	0.30	QP
12	3.759	22.66	-23.34	46.00	22.26	0.10	0.30	AVERAGE

Temperature	26°C	Humidity	55%
Test Engineer	Ryo Fan	Phase	Neutral
Configuration	TX Mode / Mode 8 (Ant. 8)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15985	43.33	-12.14	55.47	43.03	0.10	0.20	AVERAGE
2	0.15985	58.27	-7.20	65.47	57.97	0.10	0.20	QP
3	0.16677	39.88	-15.24	55.12	39.58	0.10	0.20	AVERAGE
4	0.16677	55.03	-10.09	65.12	54.73	0.10	0.20	QP
5	0.19863	46.02	-17.65	63.67	45.74	0.08	0.20	QP
6	0.19863	27.33	-26.34	53.67	27.05	0.08	0.20	AVERAGE
7	0.21735	48.60	-14.32	62.92	48.32	0.08	0.20	QP
8	0.21735	33.03	-19.89	52.92	32.75	0.08	0.20	AVERAGE
9	3.454	22.28	-23.72	46.00	21.86	0.13	0.29	AVERAGE
10	3.454	34.53	-21.47	56.00	34.11	0.13	0.29	QP
11	3.799	33.96	-22.04	56.00	33.52	0.14	0.30	QP
12	3.799	21.14	-24.86	46.00	20.70	0.14	0.30	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Conducted Output Power Measurement

4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limit has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3dB that the directional gain of the antenna exceeds 6dBi. 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 conducted output power.

4.2.2. Measuring Instruments and Setting

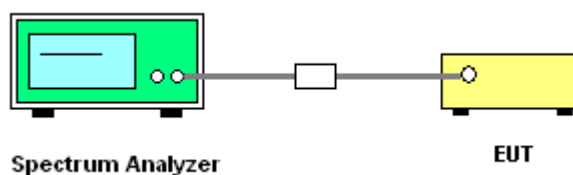
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter		Setting	
Attenuation		Auto	
Span Frequency		Encompass the entire emissions bandwidth (EBW) of the signal	
RB		1MHz	
VB		3MHz	
Detector		RMS	
Trace		Max Hold	
Sweep Time		Auto	
Cable Loss		Combiner Loss	
2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band
0.8	1.5	5.15	5.38

4.2.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005.
3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

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 Maximum Conducted Output Power

<For Mode 1 (Ant. 1)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 1 (Ant. 1)

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.45	21.00	Complies
157	5785 MHz	17.67	21.00	Complies
165	5825 MHz	17.16	21.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.56	21.00	Complies
157	5785 MHz	17.48	21.00	Complies
165	5825 MHz	17.10	21.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.52	21.00	Complies
157	5785 MHz	20.59	21.00	Complies
165	5825 MHz	20.14	21.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	17.39	21.00	Complies
159	5795 MHz	17.43	21.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	17.01	21.00	Complies
159	5795 MHz	17.03	21.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.21	21.00	Complies
159	5795 MHz	20.24	21.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Mode 1 (Ant. 1)

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.13	21.00	Complies
157	5785 MHz	17.28	21.00	Complies
165	5825 MHz	17.58	21.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.94	21.00	Complies
157	5785 MHz	17.14	21.00	Complies
165	5825 MHz	17.49	21.00	Complies

Configuration IEEE 802.11a J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.56	21.00	Complies
157	5785 MHz	20.22	21.00	Complies
165	5825 MHz	20.55	21.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 2 (Ant. 2)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 2 (Ant. 2)

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.76	30.00	Complies
157	5785 MHz	23.38	30.00	Complies
165	5825 MHz	24.65	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.21	30.00	Complies
157	5785 MHz	24.46	30.00	Complies
165	5825 MHz	24.45	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.50	30.00	Complies
157	5785 MHz	26.96	30.00	Complies
165	5825 MHz	27.56	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.33	30.00	Complies
159	5795 MHz	23.74	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.91	30.00	Complies
159	5795 MHz	23.86	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	22.82	30.00	Complies
159	5795 MHz	26.81	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 2 (Ant. 2)

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.50	30.00	Complies
157	5785 MHz	23.91	30.00	Complies
165	5825 MHz	24.16	30.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.28	30.00	Complies
157	5785 MHz	24.47	30.00	Complies
165	5825 MHz	24.20	30.00	Complies

Configuration IEEE 802.11a J2+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	26.92	30.00	Complies
157	5785 MHz	27.21	30.00	Complies
165	5825 MHz	27.19	30.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 3 (Ant. 3)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 3 (Ant. 3)

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.82	26.17	Complies
6	2437 MHz	15.05	26.17	Complies
11	2462 MHz	13.52	26.17	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.90	26.17	Complies
6	2437 MHz	16.63	26.17	Complies
11	2462 MHz	14.18	26.17	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.20	26.17	Complies
6	2437 MHz	16.72	26.17	Complies
11	2462 MHz	14.49	26.17	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.45	26.17	Complies
6	2437 MHz	20.97	26.17	Complies
11	2462 MHz	18.85	26.17	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	8.64	26.17	Complies
6	2437 MHz	12.24	26.17	Complies
9	2452 MHz	8.78	26.17	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	9.44	26.17	Complies
6	2437 MHz	13.15	26.17	Complies
9	2452 MHz	9.21	26.17	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	9.62	26.17	Complies
6	2437 MHz	13.25	26.17	Complies
9	2452 MHz	9.38	26.17	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	14.02	26.17	Complies
6	2437 MHz	17.67	26.17	Complies
9	2452 MHz	13.90	26.17	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 3 (Ant. 3)

Configuration IEEE 802.11b J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.48	26.17	Complies
6	2437 MHz	18.26	26.17	Complies
11	2462 MHz	16.08	26.17	Complies

Configuration IEEE 802.11b J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.43	26.17	Complies
6	2437 MHz	19.96	26.17	Complies
11	2462 MHz	17.43	26.17	Complies

Configuration IEEE 802.11b J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.15	26.17	Complies
6	2437 MHz	22.65	26.17	Complies
11	2462 MHz	18.99	26.17	Complies

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.60	26.17	Complies
6	2437 MHz	25.44	26.17	Complies
11	2462 MHz	22.43	26.17	Complies

Configuration IEEE 802.11g J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.51	26.17	Complies
6	2437 MHz	14.85	26.17	Complies
11	2462 MHz	13.48	26.17	Complies

Configuration IEEE 802.11g J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.07	26.17	Complies
6	2437 MHz	15.93	26.17	Complies
11	2462 MHz	14.39	26.17	Complies

Configuration IEEE 802.11g J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.14	26.17	Complies
6	2437 MHz	16.45	26.17	Complies
11	2462 MHz	16.26	26.17	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.41	26.17	Complies
6	2437 MHz	20.56	26.17	Complies
11	2462 MHz	19.64	26.17	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 4 (Ant. 4)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 4 (Ant. 4)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.98	30.00	Complies
6	2437 MHz	22.06	30.00	Complies
11	2462 MHz	16.35	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.18	30.00	Complies
6	2437 MHz	23.94	30.00	Complies
11	2462 MHz	17.04	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.06	30.00	Complies
6	2437 MHz	25.66	30.00	Complies
11	2462 MHz	18.46	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.93	30.00	Complies
6	2437 MHz	28.90	30.00	Complies
11	2462 MHz	22.15	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.97	30.00	Complies
6	2437 MHz	16.04	30.00	Complies
9	2452 MHz	14.47	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	14.59	30.00	Complies
6	2437 MHz	16.34	30.00	Complies
9	2452 MHz	15.32	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	15.11	30.00	Complies
6	2437 MHz	17.14	30.00	Complies
9	2452 MHz	16.53	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	19.35	30.00	Complies
6	2437 MHz	21.30	30.00	Complies
9	2452 MHz	20.29	30.00	Complies

For 5GHz Band
Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.75	30.00	Complies
157	5785 MHz	24.42	30.00	Complies
165	5825 MHz	24.70	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.63	30.00	Complies
157	5785 MHz	23.56	30.00	Complies
165	5825 MHz	22.50	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.66	30.00	Complies
157	5785 MHz	22.93	30.00	Complies
165	5825 MHz	22.84	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.53	30.00	Complies
157	5785 MHz	28.45	30.00	Complies
165	5825 MHz	28.23	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	23.62	30.00	Complies
159	5795 MHz	23.71	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	23.85	30.00	Complies
159	5795 MHz	23.66	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	22.30	30.00	Complies
159	5795 MHz	22.59	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	28.08	30.00	Complies
159	5795 MHz	28.12	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11 a/b/g / Mode 4 (Ant. 4)

Configuration IEEE 802.11b J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.40	30.00	Complies
6	2437 MHz	19.39	30.00	Complies
11	2462 MHz	16.48	30.00	Complies

Configuration IEEE 802.11b J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.83	30.00	Complies
6	2437 MHz	21.19	30.00	Complies
11	2462 MHz	17.85	30.00	Complies

Configuration IEEE 802.11b J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.46	30.00	Complies
6	2437 MHz	23.62	30.00	Complies
11	2462 MHz	19.69	30.00	Complies

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.85	30.00	Complies
6	2437 MHz	26.52	30.00	Complies
11	2462 MHz	22.98	30.00	Complies

Configuration IEEE 802.11g J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.11	30.00	Complies
6	2437 MHz	20.85	30.00	Complies
11	2462 MHz	16.42	30.00	Complies

Configuration IEEE 802.11g J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.54	30.00	Complies
6	2437 MHz	22.26	30.00	Complies
11	2462 MHz	17.32	30.00	Complies

Configuration IEEE 802.11g J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.55	30.00	Complies
6	2437 MHz	25.01	30.00	Complies
11	2462 MHz	18.86	30.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.28	30.00	Complies
6	2437 MHz	27.83	30.00	Complies
11	2462 MHz	22.42	30.00	Complies

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.18	30.00	Complies
157	5785 MHz	24.07	30.00	Complies
165	5825 MHz	24.59	30.00	Complies

Configuration IEEE 802.11a J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.44	30.00	Complies
157	5785 MHz	22.21	30.00	Complies
165	5825 MHz	21.98	30.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.67	30.00	Complies
157	5785 MHz	22.96	30.00	Complies
165	5825 MHz	22.84	30.00	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.60	30.00	Complies
157	5785 MHz	27.92	30.00	Complies
165	5825 MHz	28.05	30.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 5 (Ant. 5)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 5 (Ant. 5)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.02	26.50	Complies
6	2437 MHz	19.62	26.50	Complies
11	2462 MHz	16.02	26.50	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.29	26.50	Complies
6	2437 MHz	20.33	26.50	Complies
11	2462 MHz	16.25	26.50	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.71	26.50	Complies
6	2437 MHz	20.74	26.50	Complies
11	2462 MHz	17.76	26.50	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.25	26.50	Complies
6	2437 MHz	25.03	26.50	Complies
11	2462 MHz	21.52	26.50	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	10.29	26.50	Complies
6	2437 MHz	13.84	26.50	Complies
9	2452 MHz	12.65	26.50	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	11.93	26.50	Complies
6	2437 MHz	14.55	26.50	Complies
9	2452 MHz	11.97	26.50	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	11.37	26.50	Complies
6	2437 MHz	14.96	26.50	Complies
9	2452 MHz	12.13	26.50	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	16.02	26.50	Complies
6	2437 MHz	19.25	26.50	Complies
9	2452 MHz	17.03	26.50	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 5 (Ant. 5)

Configuration IEEE 802.11b J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.85	26.50	Complies
6	2437 MHz	18.95	26.50	Complies
11	2462 MHz	16.87	26.50	Complies

Configuration IEEE 802.11b J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.28	26.50	Complies
6	2437 MHz	19.93	26.50	Complies
11	2462 MHz	18.37	26.50	Complies

Configuration IEEE 802.11b J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.51	26.50	Complies
6	2437 MHz	21.22	26.50	Complies
11	2462 MHz	19.58	26.50	Complies

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.12	26.50	Complies
6	2437 MHz	24.90	26.50	Complies
11	2462 MHz	23.18	26.50	Complies

Configuration IEEE 802.11g J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.79	26.50	Complies
6	2437 MHz	18.73	26.50	Complies
11	2462 MHz	14.93	26.50	Complies

Configuration IEEE 802.11g J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.09	26.50	Complies
6	2437 MHz	19.86	26.50	Complies
11	2462 MHz	15.12	26.50	Complies

Configuration IEEE 802.11g J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.97	26.50	Complies
6	2437 MHz	20.81	26.50	Complies
11	2462 MHz	16.16	26.50	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.81	26.50	Complies
6	2437 MHz	24.65	26.50	Complies
11	2462 MHz	20.21	26.50	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 6 (Ant. 6)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 6 (Ant. 6)

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.89	27.00	Complies
157	5785 MHz	20.03	27.00	Complies
165	5825 MHz	20.53	27.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.09	27.00	Complies
157	5785 MHz	20.73	27.00	Complies
165	5825 MHz	20.73	27.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.57	27.00	Complies
157	5785 MHz	20.76	27.00	Complies
165	5825 MHz	20.85	27.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	25.32	27.00	Complies
157	5785 MHz	25.29	27.00	Complies
165	5825 MHz	25.48	27.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	19.11	27.00	Complies
159	5795 MHz	19.15	27.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.38	27.00	Complies
159	5795 MHz	20.31	27.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.88	27.00	Complies
159	5795 MHz	20.60	27.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	24.96	27.00	Complies
159	5795 MHz	24.83	27.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 6 (Ant. 6)

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.12	27.00	Complies
157	5785 MHz	19.86	27.00	Complies
165	5825 MHz	20.56	27.00	Complies

Configuration IEEE 802.11a J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.09	27.00	Complies
157	5785 MHz	20.31	27.00	Complies
165	5825 MHz	20.14	27.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.55	27.00	Complies
157	5785 MHz	20.04	27.00	Complies
165	5825 MHz	20.63	27.00	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	25.38	27.00	Complies
157	5785 MHz	24.85	27.00	Complies
165	5825 MHz	25.22	27.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 7 (Ant. 7)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 7 (Ant. 7)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.64	30.00	Complies
6	2437 MHz	22.23	30.00	Complies
11	2462 MHz	16.77	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.40	30.00	Complies
6	2437 MHz	23.90	30.00	Complies
11	2462 MHz	18.00	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.57	30.00	Complies
6	2437 MHz	26.07	30.00	Complies
11	2462 MHz	19.86	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.13	30.00	Complies
6	2437 MHz	29.12	30.00	Complies
11	2462 MHz	23.17	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.97	30.00	Complies
6	2437 MHz	17.35	30.00	Complies
9	2452 MHz	14.47	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	14.59	30.00	Complies
6	2437 MHz	18.65	30.00	Complies
9	2452 MHz	15.32	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	15.11	30.00	Complies
6	2437 MHz	20.17	30.00	Complies
9	2452 MHz	16.53	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	19.35	30.00	Complies
6	2437 MHz	23.65	30.00	Complies
9	2452 MHz	20.29	30.00	Complies

For 5GHz Band
Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.44	30.00	Complies
157	5785 MHz	20.50	30.00	Complies
165	5825 MHz	24.67	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.51	30.00	Complies
157	5785 MHz	22.75	30.00	Complies
165	5825 MHz	22.50	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.86	30.00	Complies
157	5785 MHz	23.64	30.00	Complies
165	5825 MHz	22.84	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.08	30.00	Complies
157	5785 MHz	27.26	30.00	Complies
165	5825 MHz	28.22	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	19.53	30.00	Complies
159	5795 MHz	23.71	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.41	30.00	Complies
159	5795 MHz	23.66	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	19.50	30.00	Complies
159	5795 MHz	22.59	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	23.95	30.00	Complies
159	5795 MHz	28.12	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11 a/b/g / Mode 7 (Ant. 7)

Configuration IEEE 802.11b J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.54	30.00	Complies
6	2437 MHz	20.23	30.00	Complies
11	2462 MHz	17.36	30.00	Complies

Configuration IEEE 802.11b J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.93	30.00	Complies
6	2437 MHz	22.18	30.00	Complies
11	2462 MHz	18.96	30.00	Complies

Configuration IEEE 802.11b J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.04	30.00	Complies
6	2437 MHz	23.93	30.00	Complies
11	2462 MHz	21.53	30.00	Complies

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.70	30.00	Complies
6	2437 MHz	27.14	30.00	Complies
11	2462 MHz	24.40	30.00	Complies

Configuration IEEE 802.11g J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.50	30.00	Complies
6	2437 MHz	21.79	30.00	Complies
11	2462 MHz	16.42	30.00	Complies

Configuration IEEE 802.11g J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.51	30.00	Complies
6	2437 MHz	24.71	30.00	Complies
11	2462 MHz	17.32	30.00	Complies

Configuration IEEE 802.11g J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.01	30.00	Complies
6	2437 MHz	26.32	30.00	Complies
11	2462 MHz	18.86	30.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.83	30.00	Complies
6	2437 MHz	29.42	30.00	Complies
11	2462 MHz	22.42	30.00	Complies

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.53	30.00	Complies
157	5785 MHz	22.70	30.00	Complies
165	5825 MHz	24.59	30.00	Complies

Configuration IEEE 802.11a J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.48	30.00	Complies
157	5785 MHz	22.36	30.00	Complies
165	5825 MHz	21.98	30.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.05	30.00	Complies
157	5785 MHz	23.06	30.00	Complies
165	5825 MHz	22.84	30.00	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.17	30.00	Complies
157	5785 MHz	27.49	30.00	Complies
165	5825 MHz	28.05	30.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 8 (Ant. 8)>:

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11n / Mode 8 (Ant. 8)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.96	30.00	Complies
6	2437 MHz	20.90	30.00	Complies
11	2462 MHz	16.77	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.44	30.00	Complies
6	2437 MHz	23.33	30.00	Complies
11	2462 MHz	18.00	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.24	30.00	Complies
6	2437 MHz	24.16	30.00	Complies
11	2462 MHz	19.86	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.52	30.00	Complies
6	2437 MHz	27.77	30.00	Complies
11	2462 MHz	23.17	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	14.67	30.00	Complies
6	2437 MHz	17.35	30.00	Complies
9	2452 MHz	14.47	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	16.07	30.00	Complies
6	2437 MHz	18.65	30.00	Complies
9	2452 MHz	15.32	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	17.04	30.00	Complies
6	2437 MHz	20.17	30.00	Complies
9	2452 MHz	16.53	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	20.80	30.00	Complies
6	2437 MHz	23.65	30.00	Complies
9	2452 MHz	20.29	30.00	Complies

For 5GHz Band
Configuration IEEE 802.11n MCS8 20MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.75	30.00	Complies
157	5785 MHz	20.50	30.00	Complies
165	5825 MHz	20.14	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.63	30.00	Complies
157	5785 MHz	22.75	30.00	Complies
165	5825 MHz	23.84	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.66	30.00	Complies
157	5785 MHz	23.64	30.00	Complies
165	5825 MHz	23.88	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	28.53	30.00	Complies
157	5785 MHz	27.26	30.00	Complies
165	5825 MHz	27.71	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	19.39	30.00	Complies
159	5795 MHz	23.71	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.14	30.00	Complies
159	5795 MHz	23.66	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.44	30.00	Complies
159	5795 MHz	22.59	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	25.52	30.00	Complies
159	5795 MHz	28.12	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11 a/b/g / Mode 8 (Ant. 8)

Configuration IEEE 802.11b J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.54	30.00	Complies
6	2437 MHz	20.23	30.00	Complies
11	2462 MHz	18.37	30.00	Complies

Configuration IEEE 802.11b J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.93	30.00	Complies
6	2437 MHz	22.18	30.00	Complies
11	2462 MHz	20.61	30.00	Complies

Configuration IEEE 802.11b J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	22.04	30.00	Complies
6	2437 MHz	23.93	30.00	Complies
11	2462 MHz	22.65	30.00	Complies

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.70	30.00	Complies
6	2437 MHz	27.14	30.00	Complies
11	2462 MHz	25.66	30.00	Complies

Configuration IEEE 802.11g J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.50	30.00	Complies
6	2437 MHz	21.79	30.00	Complies
11	2462 MHz	16.42	30.00	Complies

Configuration IEEE 802.11g J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.51	30.00	Complies
6	2437 MHz	24.71	30.00	Complies
11	2462 MHz	17.32	30.00	Complies

Configuration IEEE 802.11g J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.01	30.00	Complies
6	2437 MHz	26.32	30.00	Complies
11	2462 MHz	18.86	30.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.83	30.00	Complies
6	2437 MHz	29.42	30.00	Complies
11	2462 MHz	22.42	30.00	Complies

Configuration IEEE 802.11a J2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.63	30.00	Complies
157	5785 MHz	22.70	30.00	Complies
165	5825 MHz	24.59	30.00	Complies

Configuration IEEE 802.11a J3

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.07	30.00	Complies
157	5785 MHz	22.36	30.00	Complies
165	5825 MHz	21.98	30.00	Complies

Configuration IEEE 802.11a J4

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.16	30.00	Complies
157	5785 MHz	23.06	30.00	Complies
165	5825 MHz	22.84	30.00	Complies

Configuration IEEE 802.11a J2+J3+J4

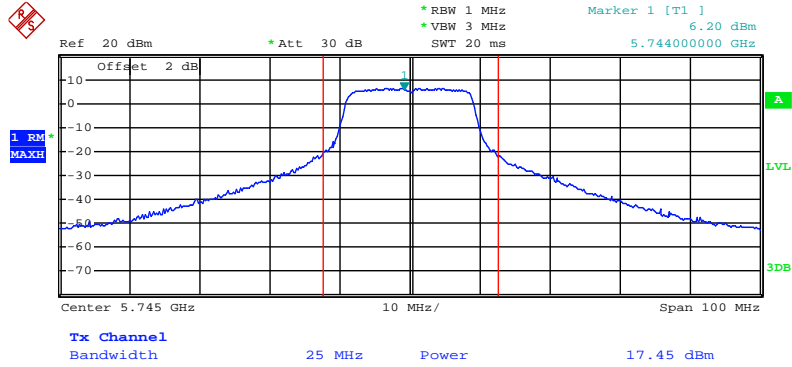
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149	5745 MHz	27.00	30.00	Complies
157	5785 MHz	27.49	30.00	Complies
165	5825 MHz	28.05	30.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

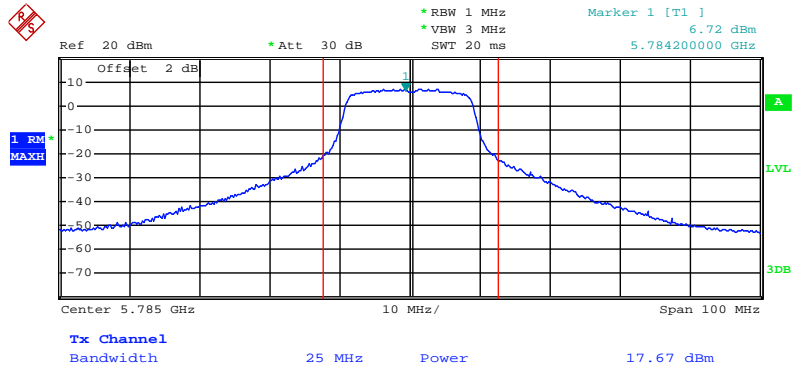
<For Mode 1 (Ant. 1)>:

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5745 MHz



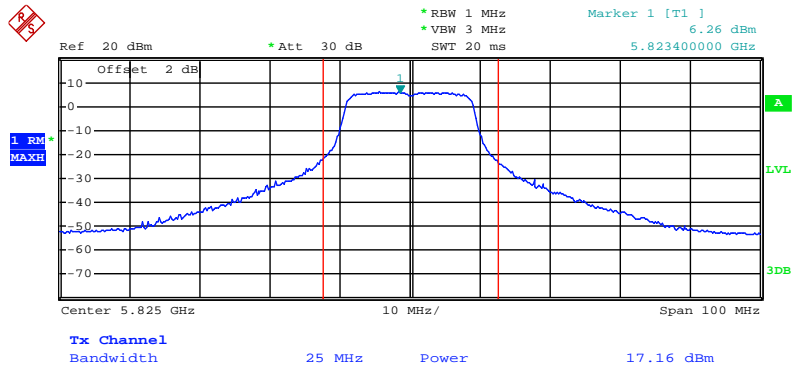
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5785 MHz



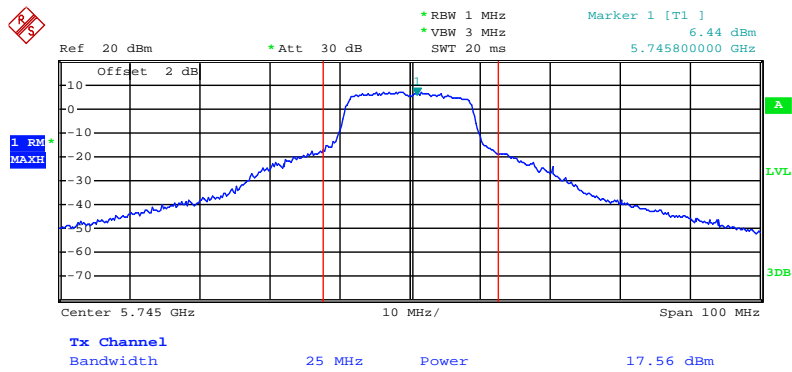
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5825 MHz



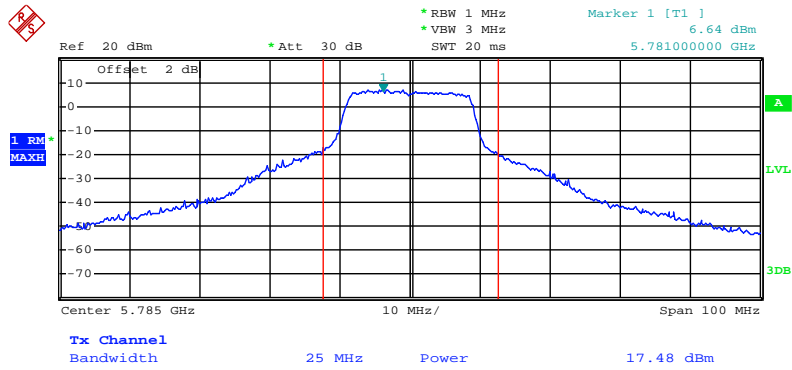
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5745 MHz



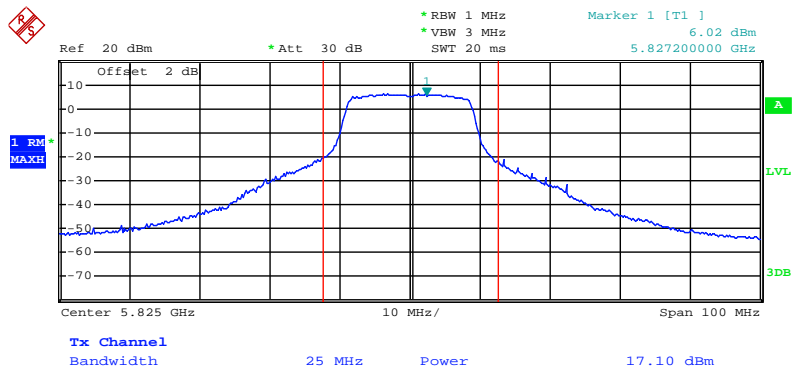
Date: 11.AUG.2010 23:16:40

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5785 MHz



Date: 11.AUG.2010 23:17:54

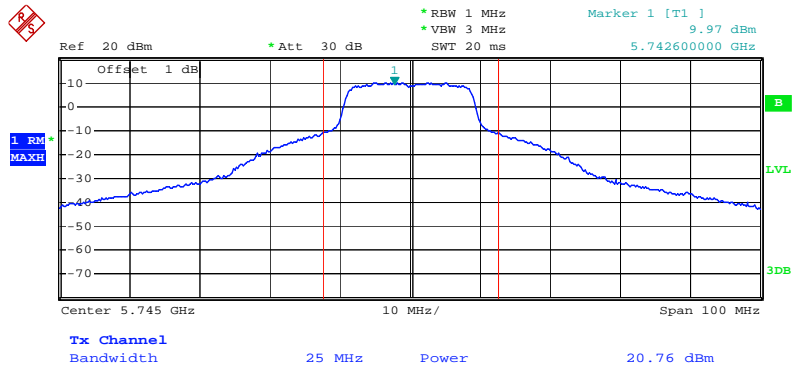
Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5825 MHz



Date: 11.AUG.2010 23:20:30

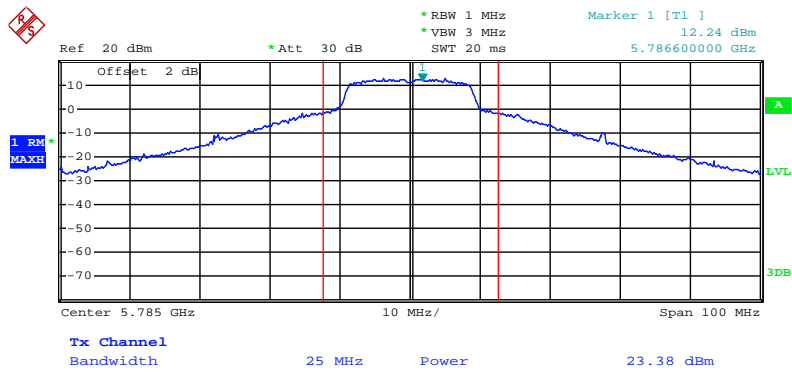
<For Mode 2 (Ant. 2)>:

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5745 MHz



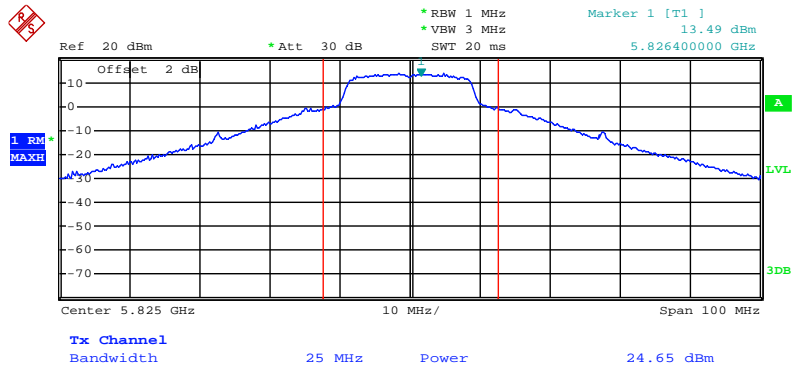
Date: 11.AUG.2010 20:17:02

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5785 MHz



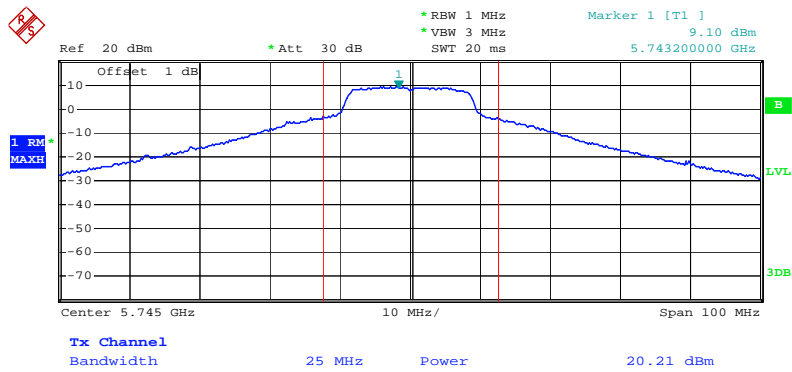
Date: 12.AUG.2010 00:38:28

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5825 MHz



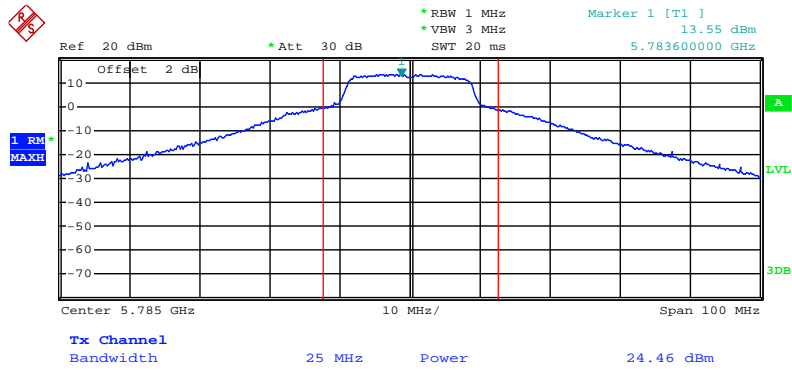
Date: 12.AUG.2010 00:36:25

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5745 MHz



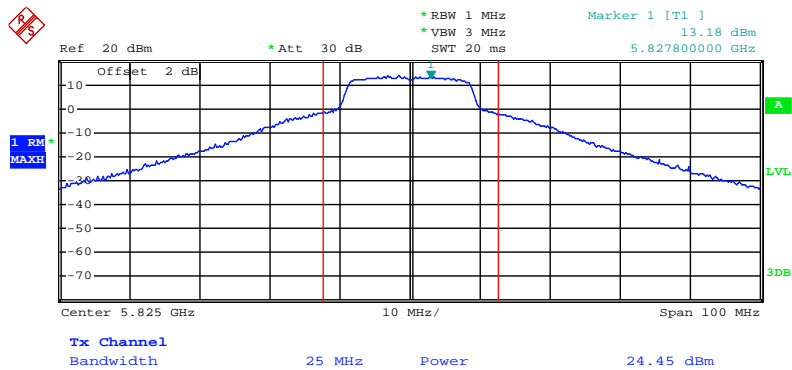
Date: 11.AUG.2010 20:17:48

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5785 MHz



Date: 12.AUG.2010 00:38:50

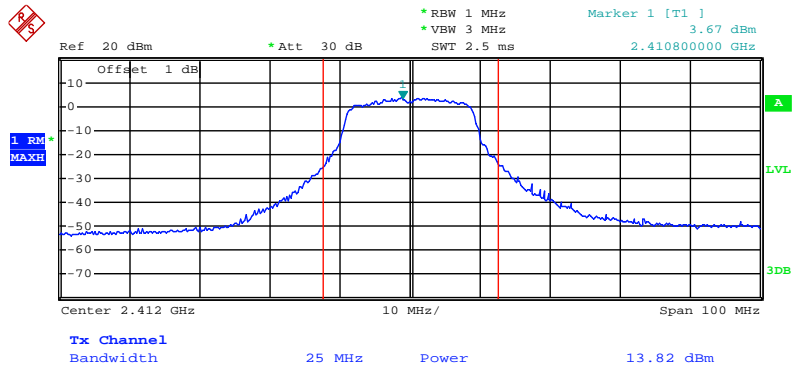
Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5825 MHz



Date: 12.AUG.2010 00:35:42

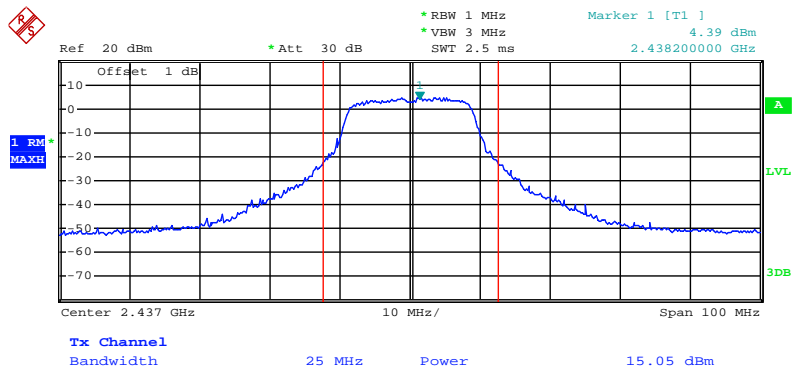
<For Mode 3 (Ant. 3)>:

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2412 MHz



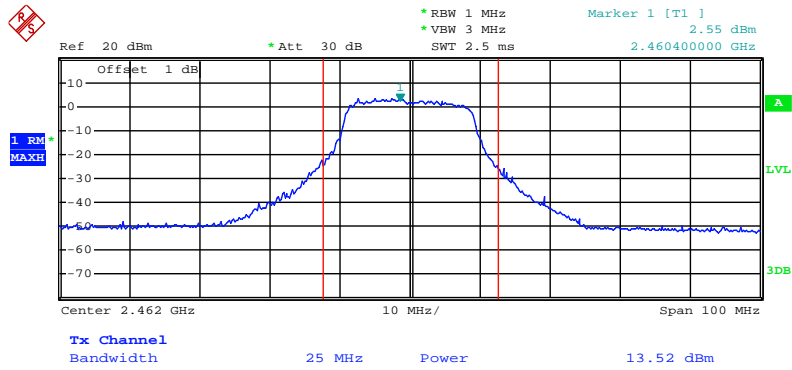
Date: 11.AUG.2010 21:08:18

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2437 MHz



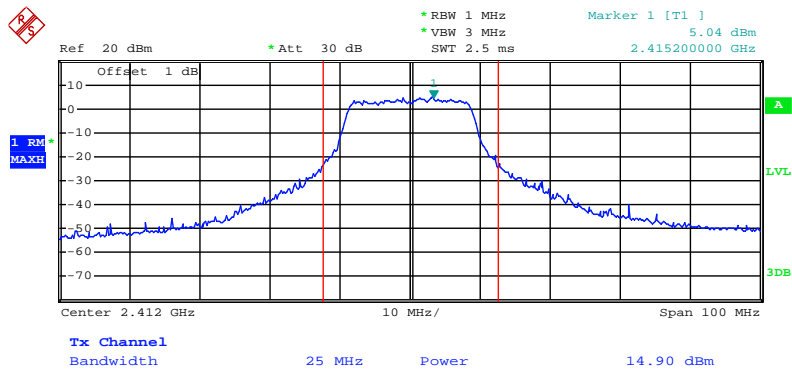
Date: 11.AUG.2010 21:12:24

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2462 MHz



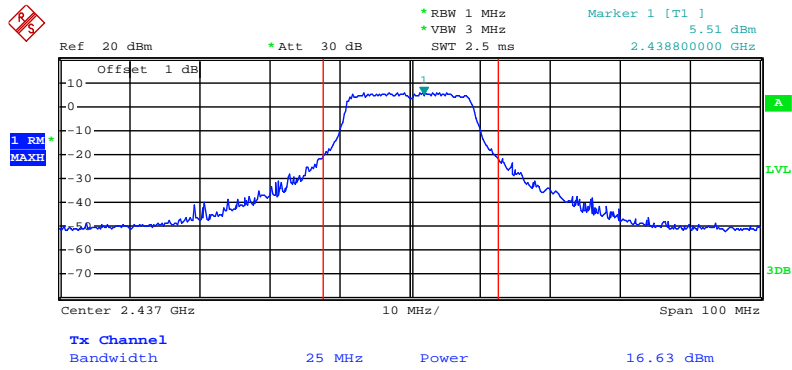
Date: 11.AUG.2010 21:13:07

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2412 MHz



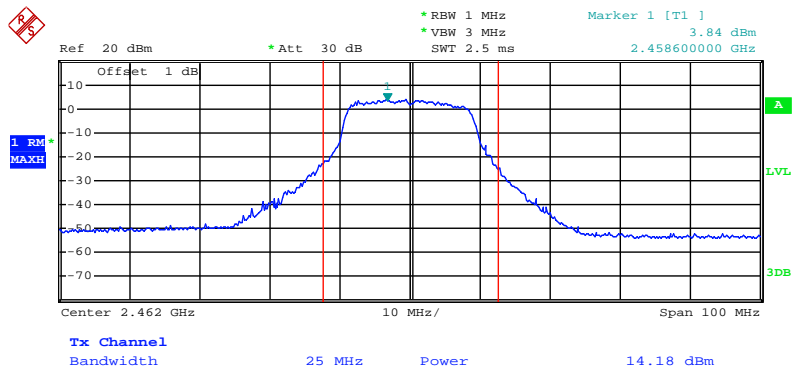
Date: 11.AUG.2010 21:09:55

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2437 MHz



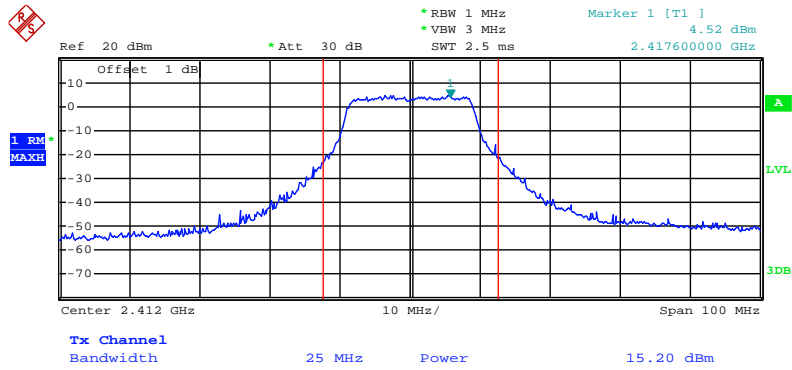
Date: 11.AUG.2010 21:11:29

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2462 MHz



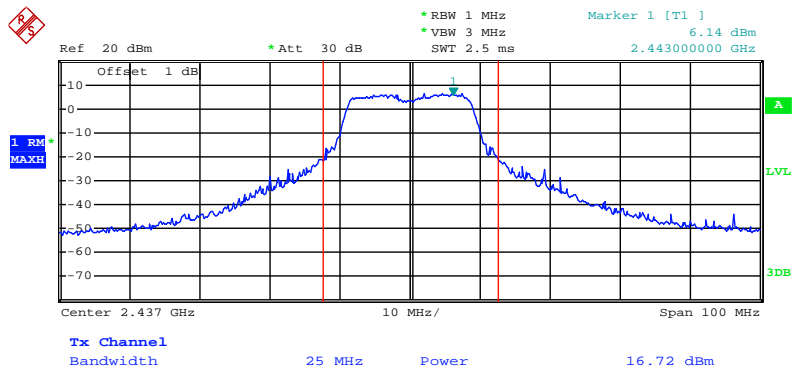
Date: 11.AUG.2010 21:13:49

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2412 MHz



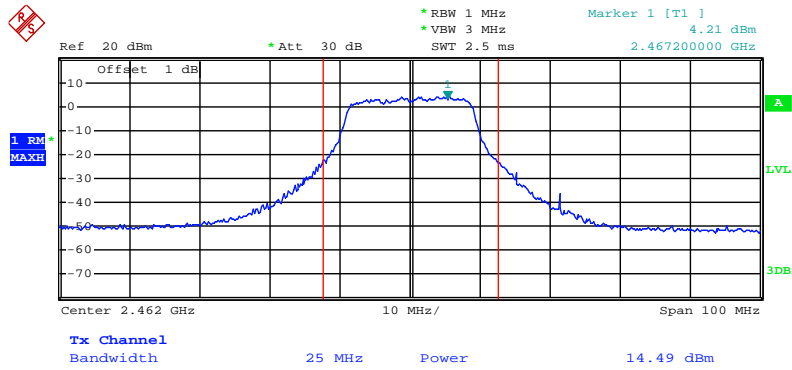
Date: 11.AUG.2010 21:08:57

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2437 MHz



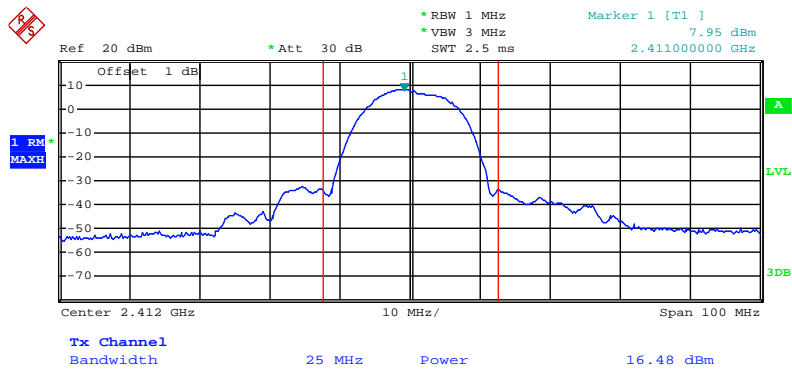
Date: 11.AUG.2010 21:11:01

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2462 MHz



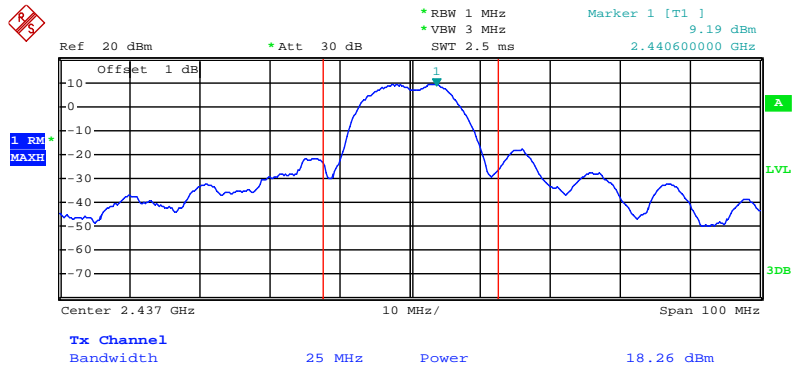
Date: 11.AUG.2010 21:14:31

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2412 MHz



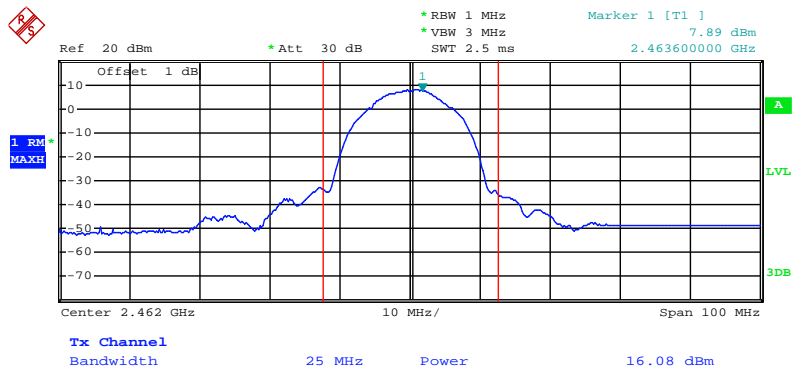
Date: 11.AUG.2010 20:30:23

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2437 MHz



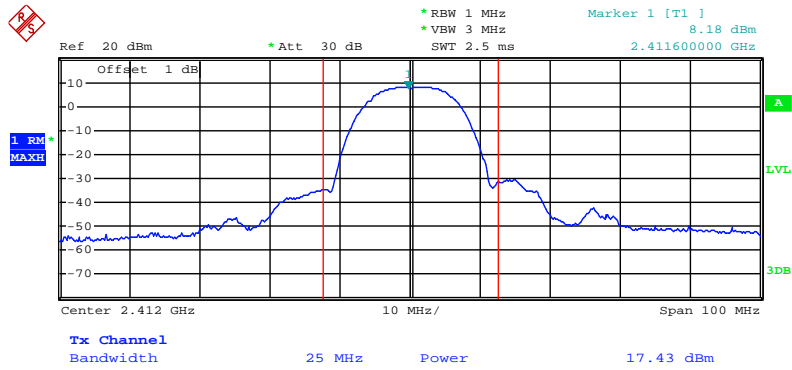
Date: 11.AUG.2010 20:55:33

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2462 MHz



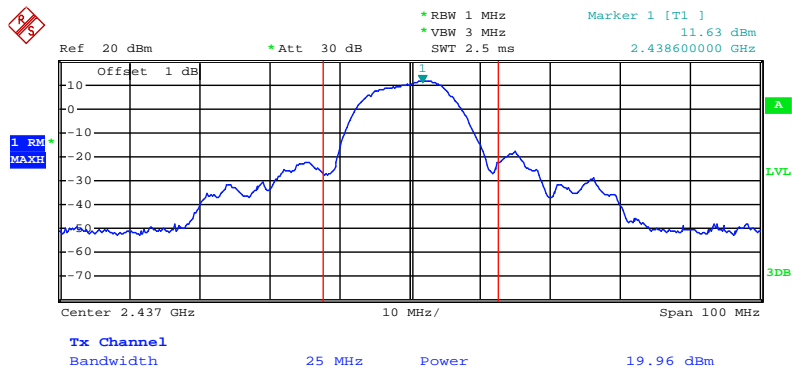
Date: 11.AUG.2010 20:56:13

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2412 MHz



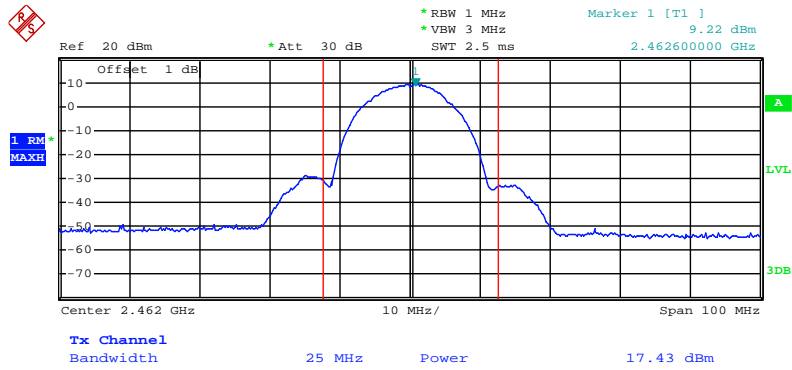
Date: 11.AUG.2010 20:29:51

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2437 MHz



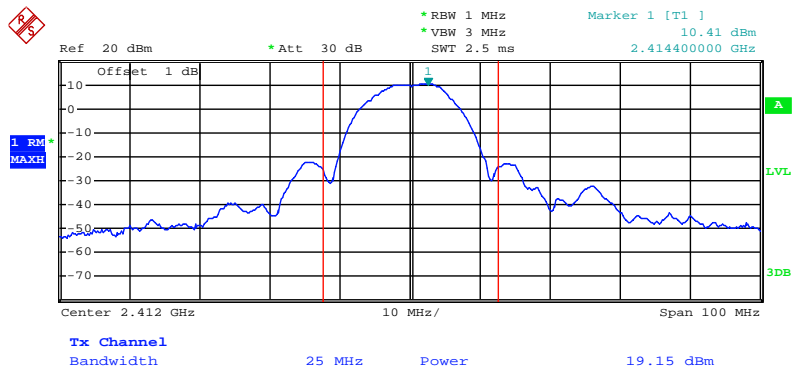
Date: 11.AUG.2010 20:54:50

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2462 MHz



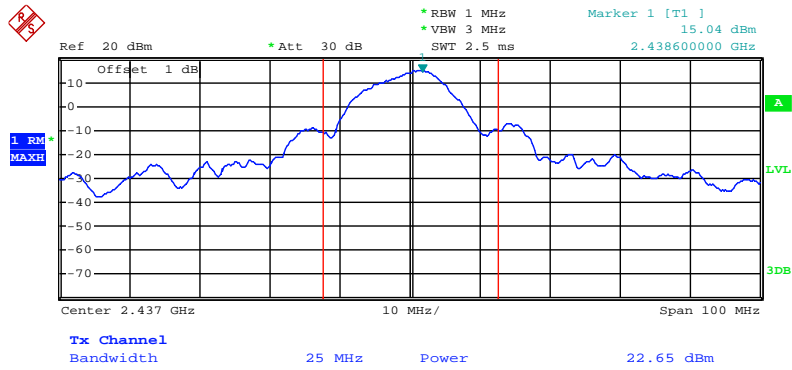
Date: 11.AUG.2010 20:56:48

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2412 MHz



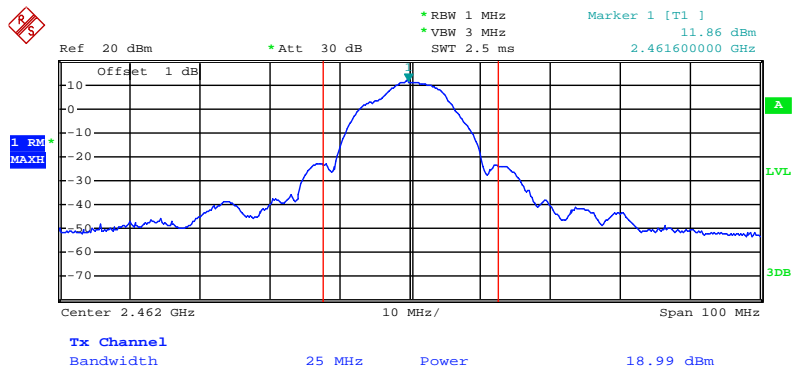
Date: 11.AUG.2010 20:28:57

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2437 MHz



Date: 11.AUG.2010 20:54:00

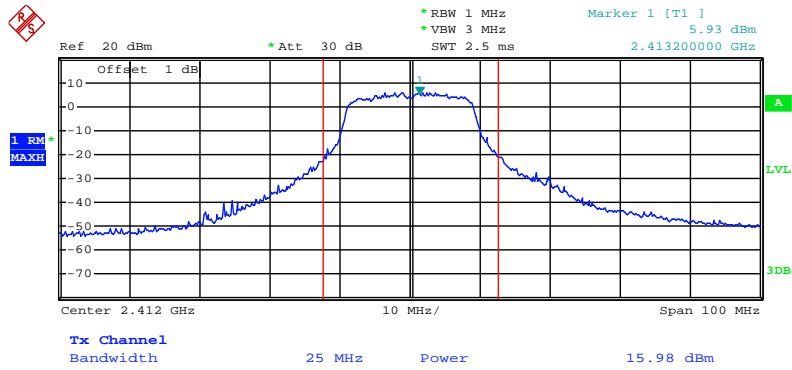
Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2462 MHz



Date: 11.AUG.2010 20:57:29

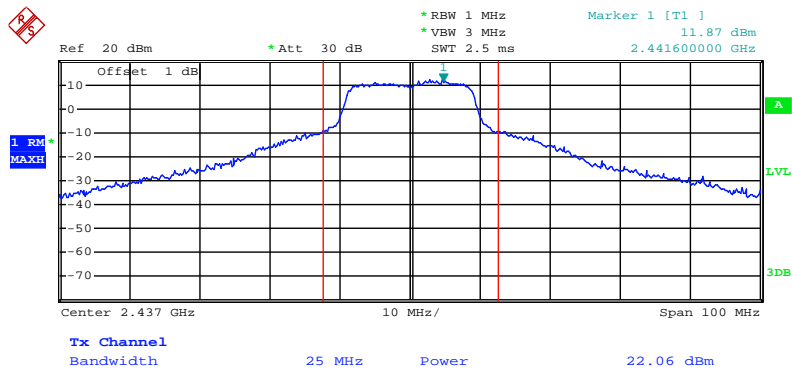
<For Mode 4 (Ant. 4)>:

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2412 MHz



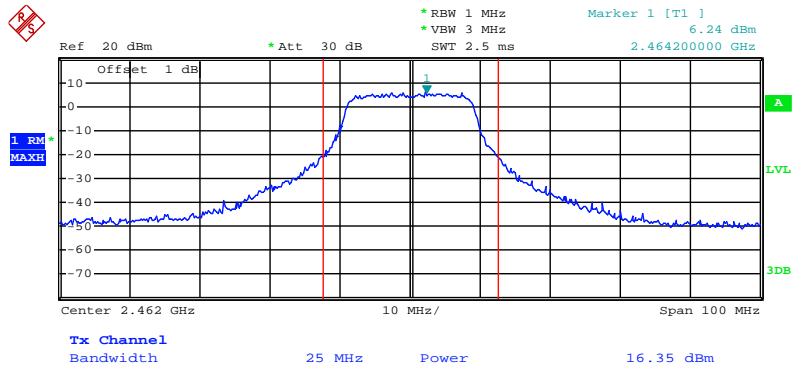
Date: 11.AUG.2010 21:39:22

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2437 MHz



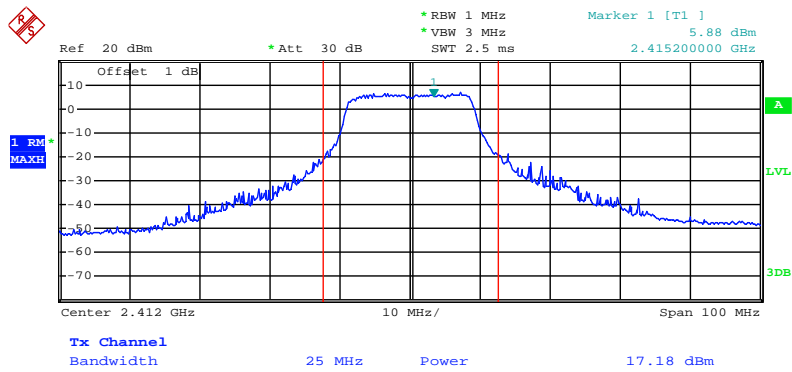
Date: 18.AUG.2010 04:09:39

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2462 MHz



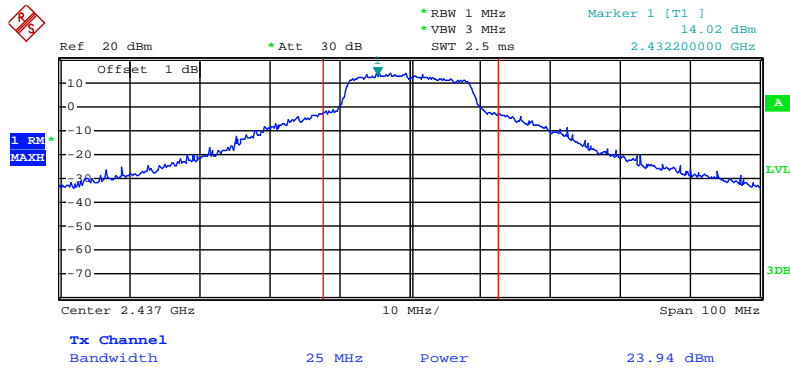
Date: 11.AUG.2010 21:35:19

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2412 MHz



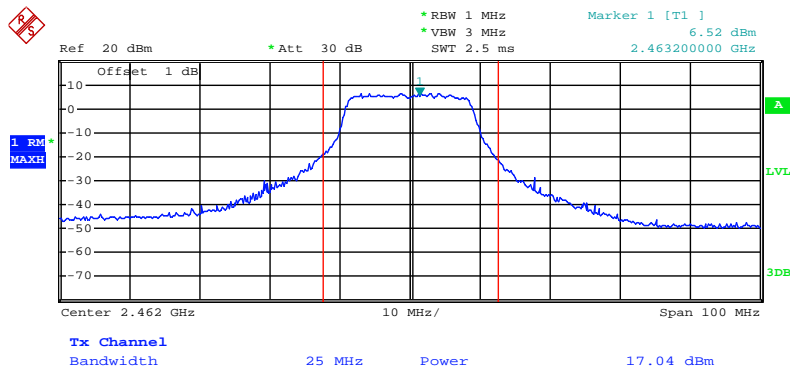
Date: 11.AUG.2010 21:38:44

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2437 MHz



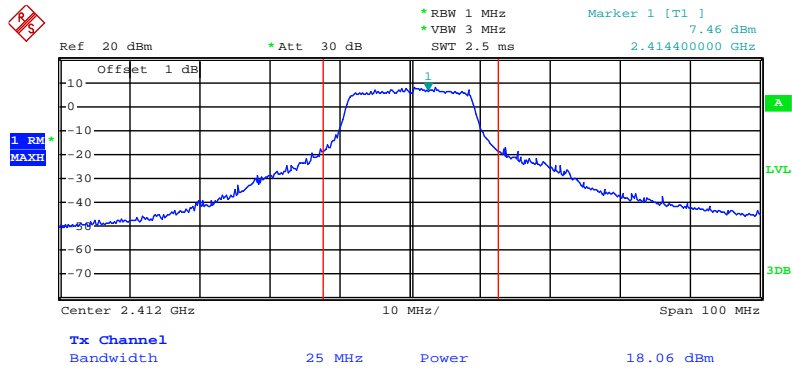
Date: 11.AUG.2010 21:36:30

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2462 MHz



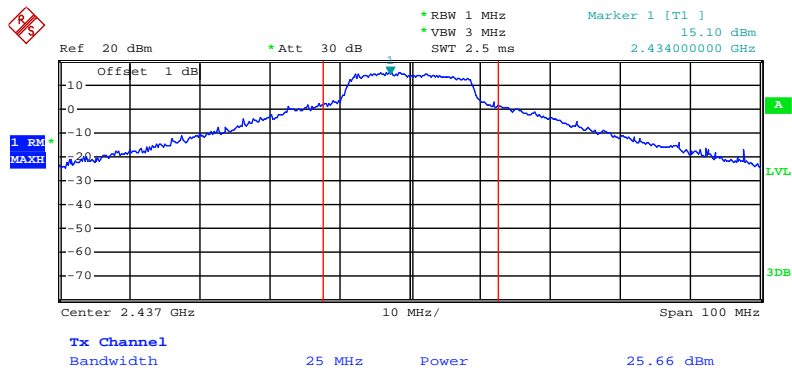
Date: 11.AUG.2010 21:34:35

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2412 MHz



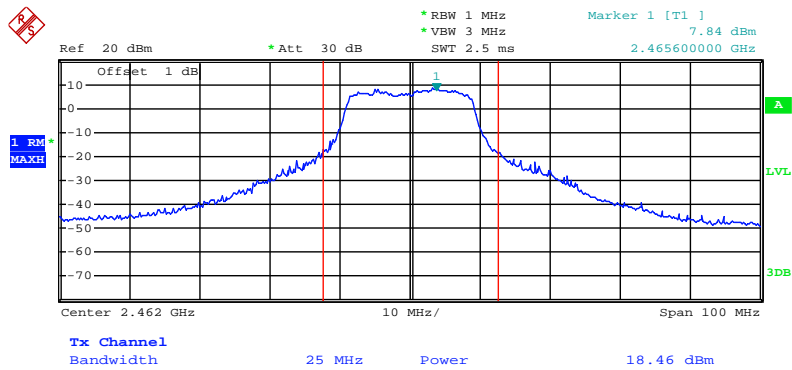
Date: 11.AUG.2010 21:37:57

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2437 MHz



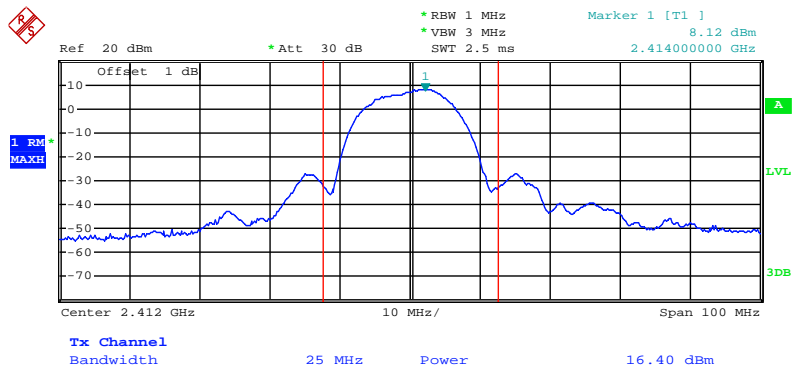
Date: 11.AUG.2010 21:36:58

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2462 MHz



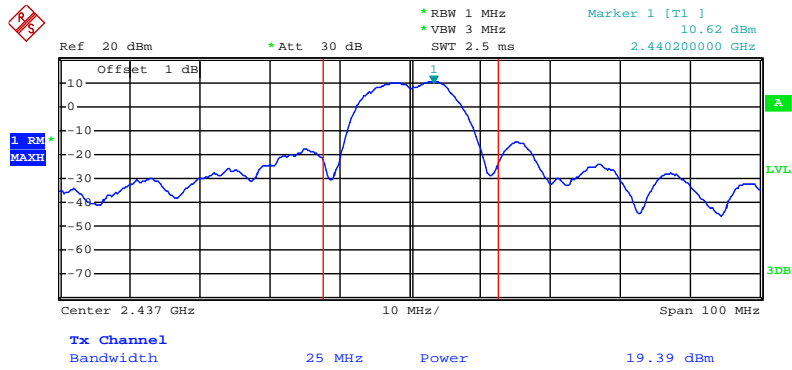
Date: 11.AUG.2010 21:33:58

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2412 MHz



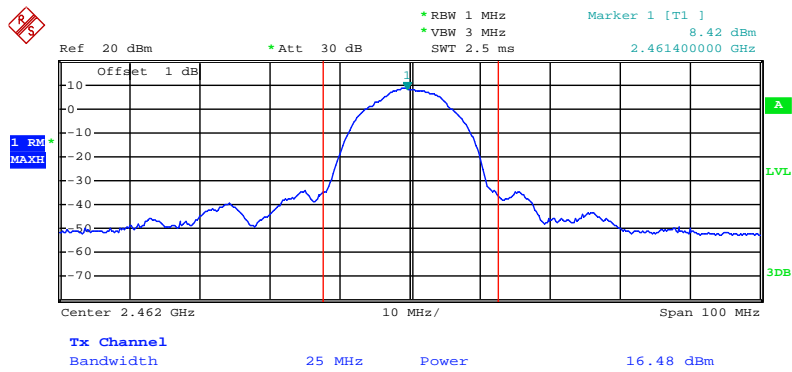
Date: 11.AUG.2010 21:52:34

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2437 MHz



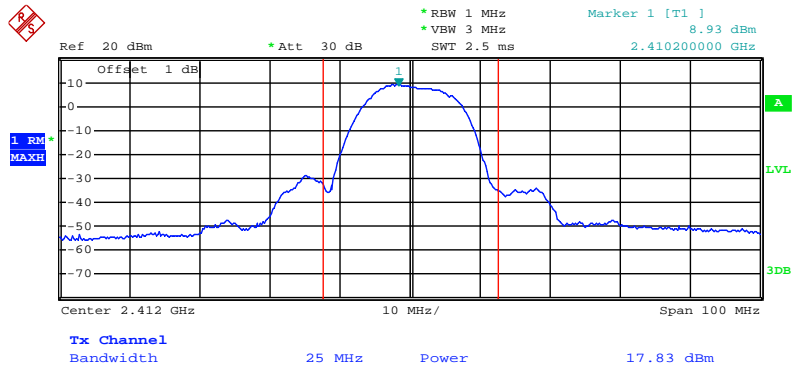
Date: 11.AUG.2010 21:48:08

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2462 MHz



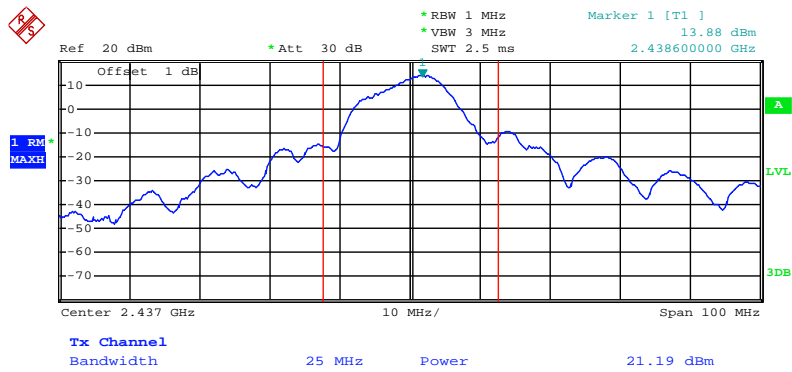
Date: 11.AUG.2010 21:47:31

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2412 MHz



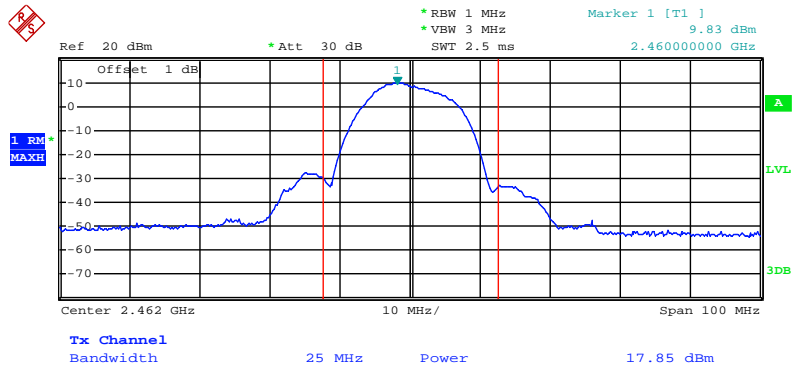
Date: 11.AUG.2010 21:50:33

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2437 MHz



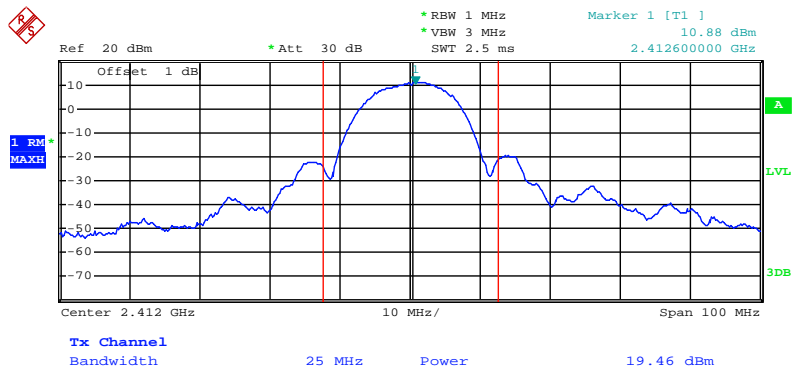
Date: 11.AUG.2010 21:48:48

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2462 MHz



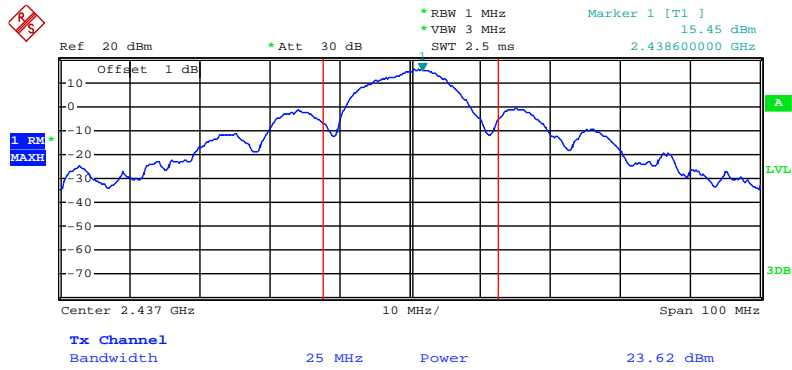
Date: 11.AUG.2010 21:46:58

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2412 MHz



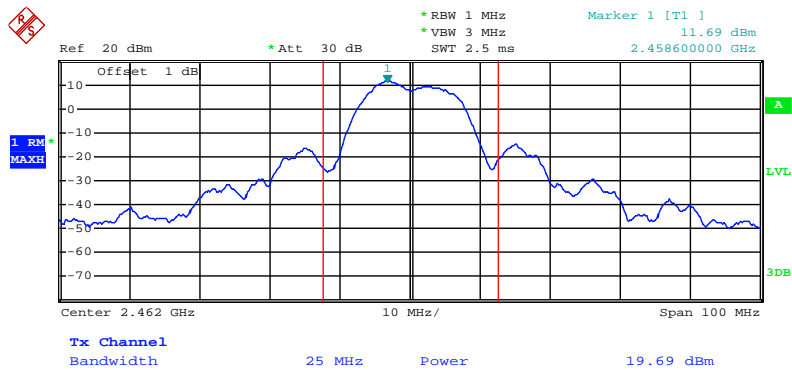
Date: 11.AUG.2010 21:50:03

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2437 MHz



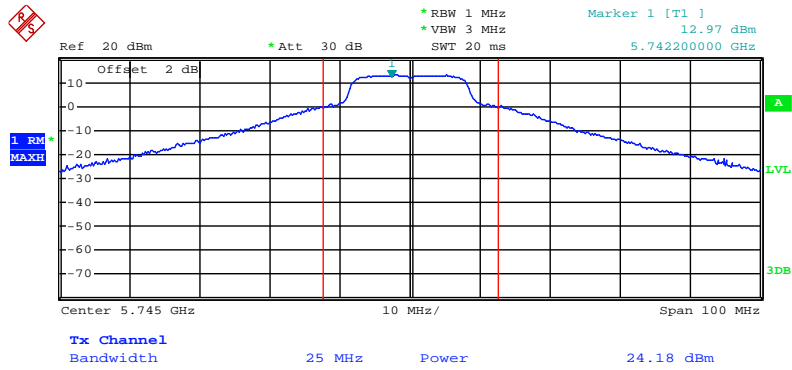
Date: 11.AUG.2010 21:49:22

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2462 MHz



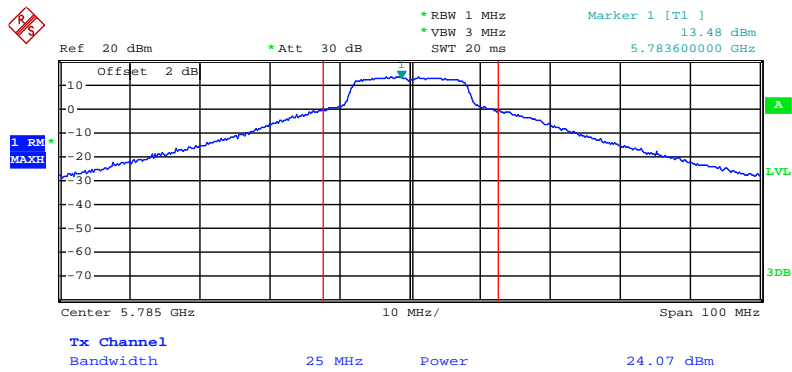
Date: 11.AUG.2010 21:46:22

Channel Output Power Plot on Configuration IEEE 802.11 a J2 / 5745 MHz



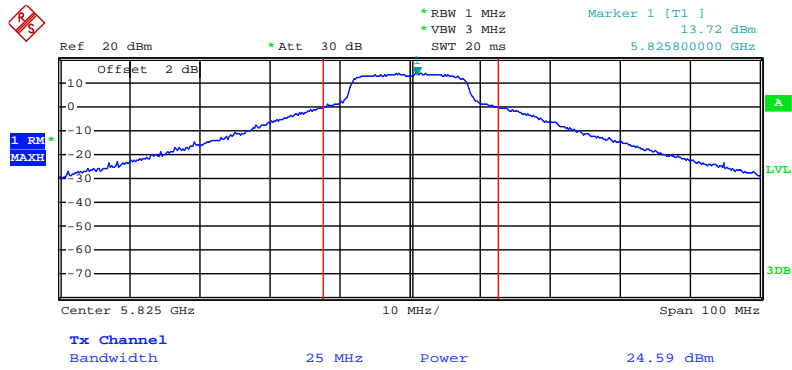
Date: 11.AUG.2010 22:01:09

Channel Output Power Plot on Configuration IEEE 802.11 a J2 / 5785MHz



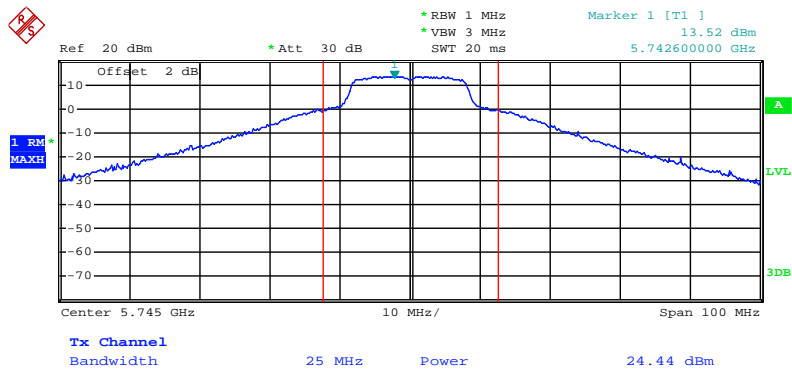
Date: 11.AUG.2010 21:57:45

Channel Output Power Plot on Configuration IEEE 802.11 a J2 / 5825 MHz



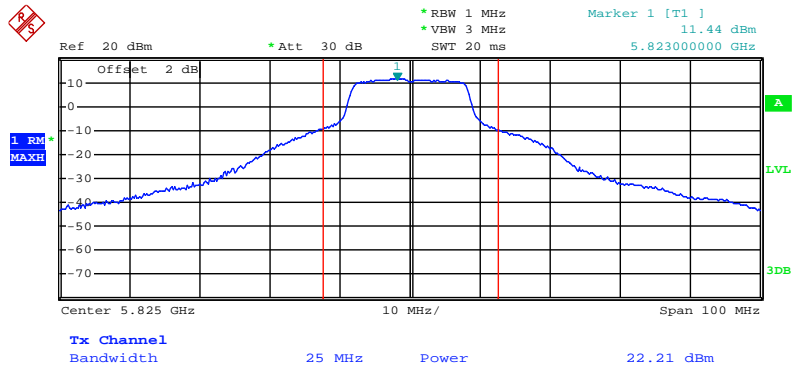
Date: 11.AUG.2010 21:58:30

Channel Output Power Plot on Configuration IEEE 802.11 a J3 / 5745 MHz



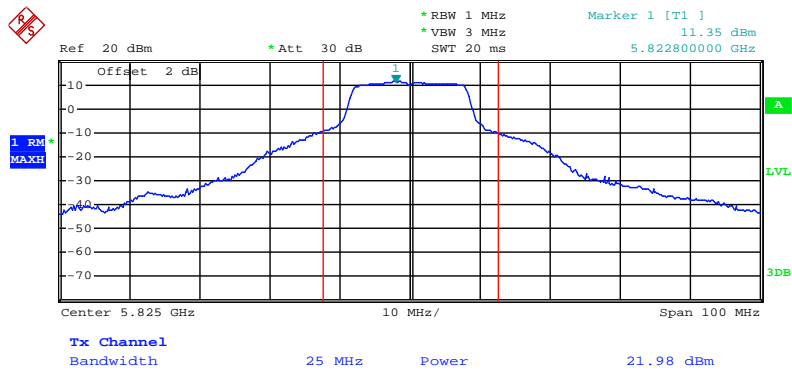
Date: 11.AUG.2010 21:55:10

Channel Output Power Plot on Configuration IEEE 802.11 a J3 / 5785MHz



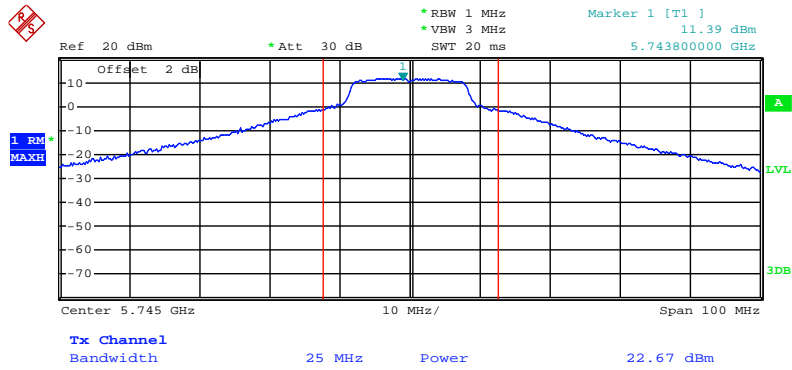
Date: 11.AUG.2010 22:02:44

Channel Output Power Plot on Configuration IEEE 802.11 a J3 / 5825 MHz



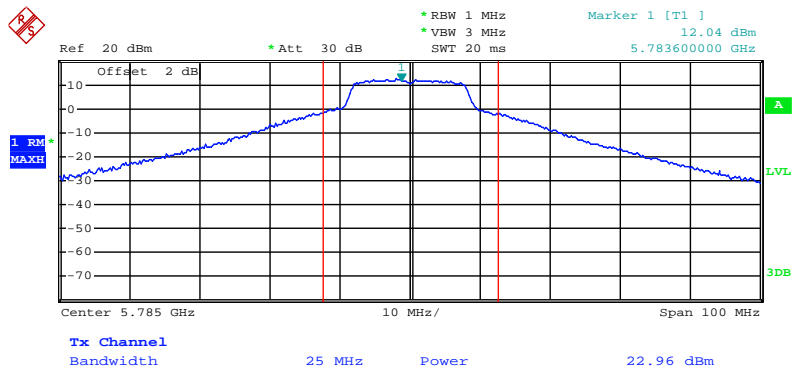
Date: 11.AUG.2010 21:59:08

Channel Output Power Plot on Configuration IEEE 802.11 a J4 / 5745 MHz



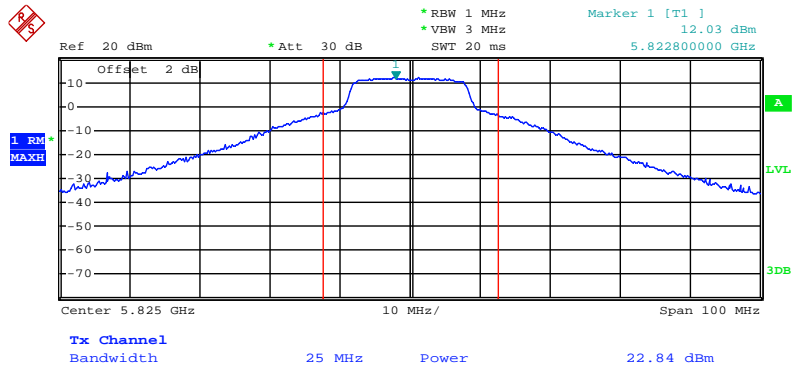
Date: 11.AUG.2010 21:55:51

Channel Output Power Plot on Configuration IEEE 802.11 a J4 / 5785MHz



Date: 11.AUG.2010 21:56:35

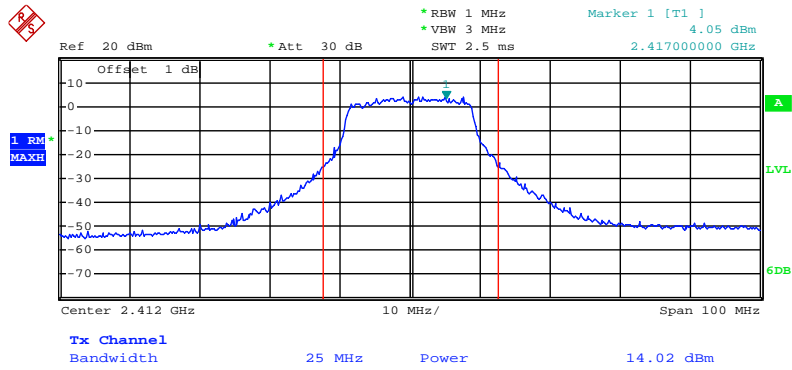
Channel Output Power Plot on Configuration IEEE 802.11a J4 / 5825 MHz



Date: 11.AUG.2010 21:59:44

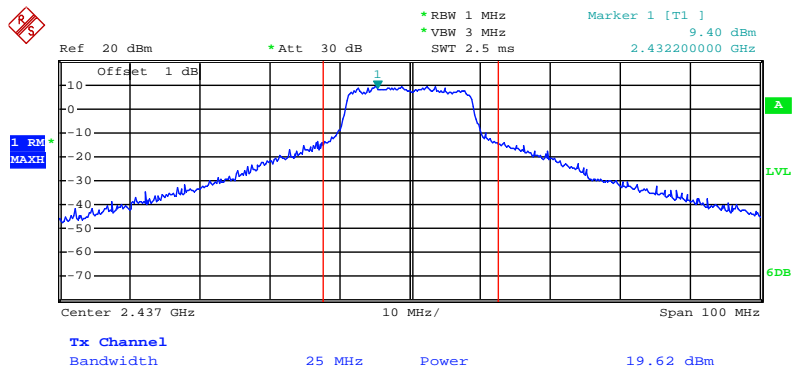
<For Mode 5 (Ant. 5)>:

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2412 MHz



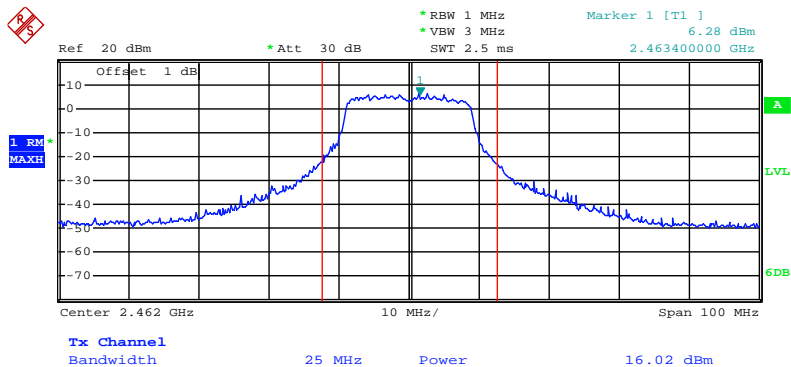
Date: 12.AUG.2010 22:03:13

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2437 MHz



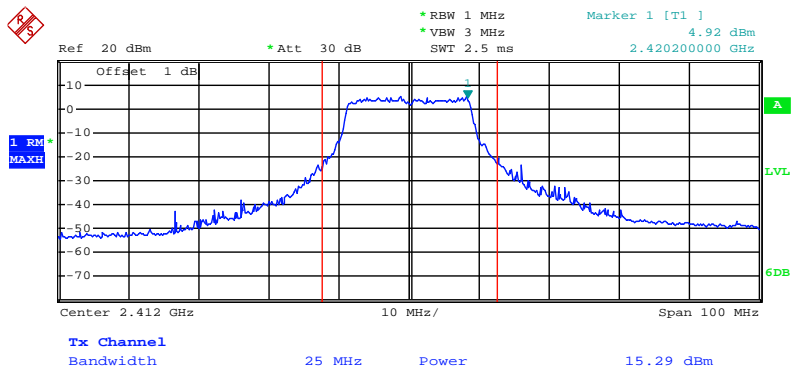
Date: 12.AUG.2010 22:00:18

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J2 / 2462 MHz



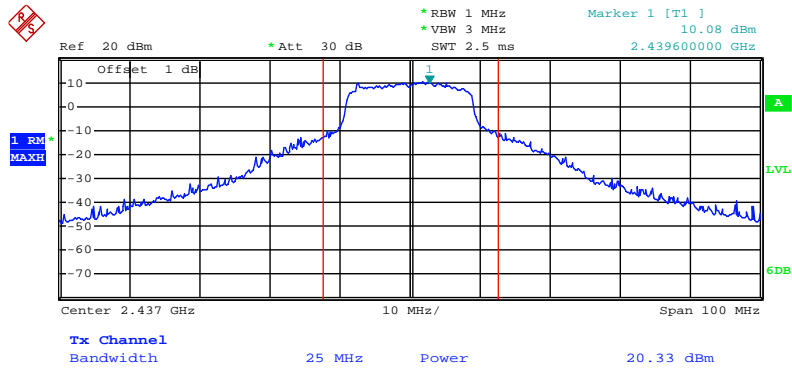
Date: 12.AUG.2010 21:59:22

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2412 MHz



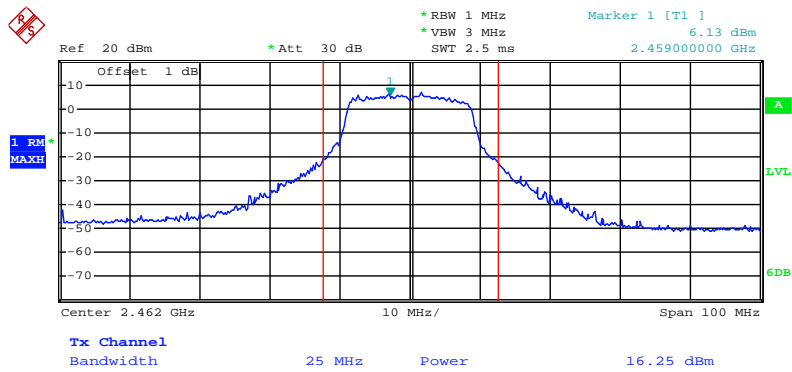
Date: 12.AUG.2010 22:02:44

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2437 MHz



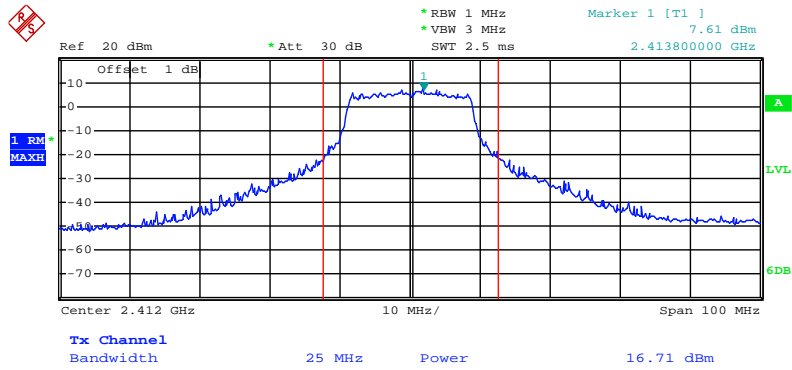
Date: 12.AUG.2010 22:00:43

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J3 / 2462 MHz



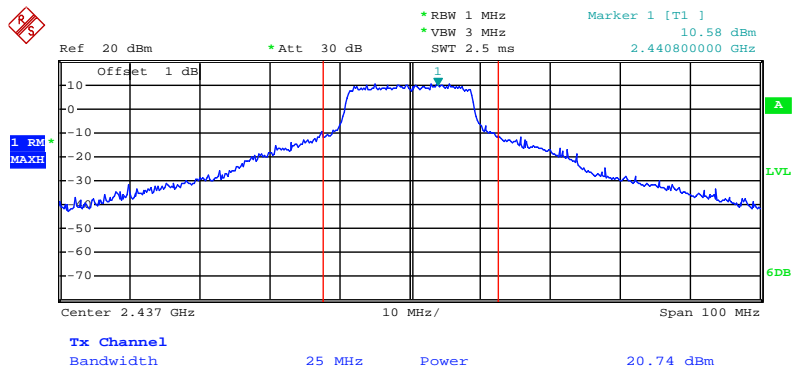
Date: 12.AUG.2010 21:58:50

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2412 MHz



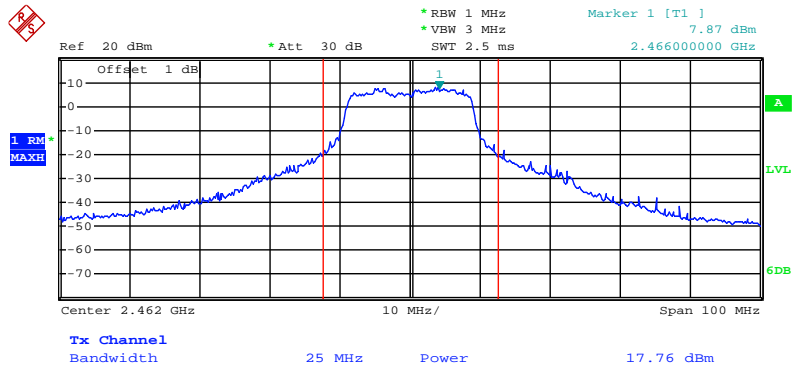
Date: 12.AUG.2010 22:02:09

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2437 MHz



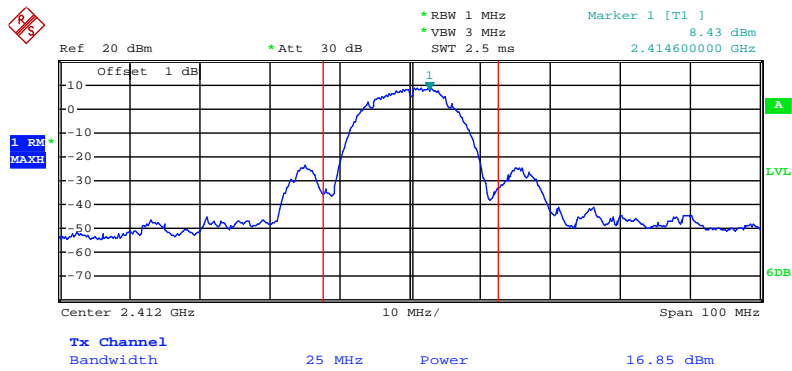
Date: 12.AUG.2010 22:01:09

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz J4 / 2462 MHz



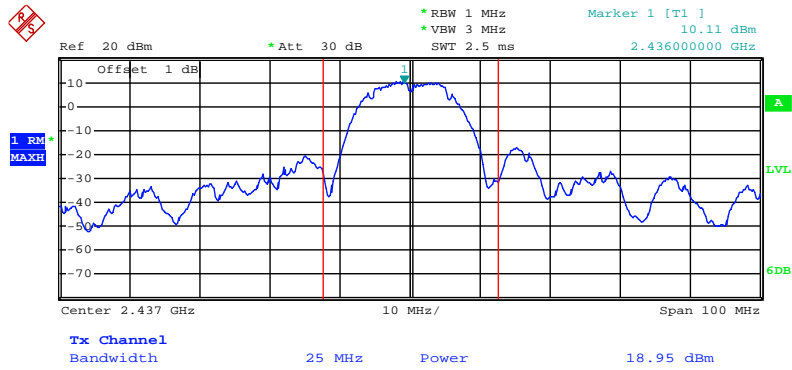
Date: 12.AUG.2010 22:05:14

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2412 MHz



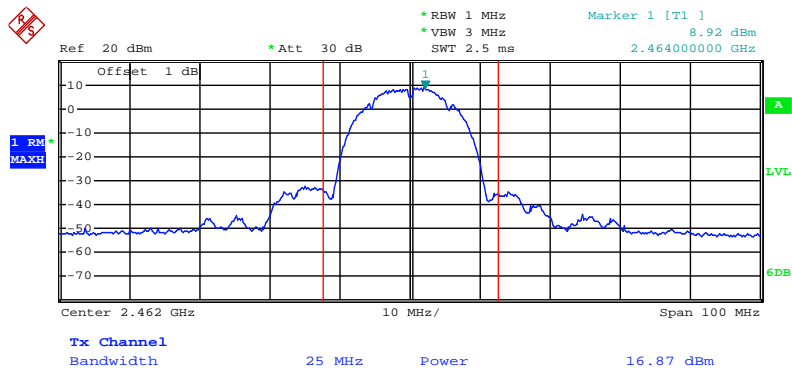
Date: 12.AUG.2010 21:43:42

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2437 MHz



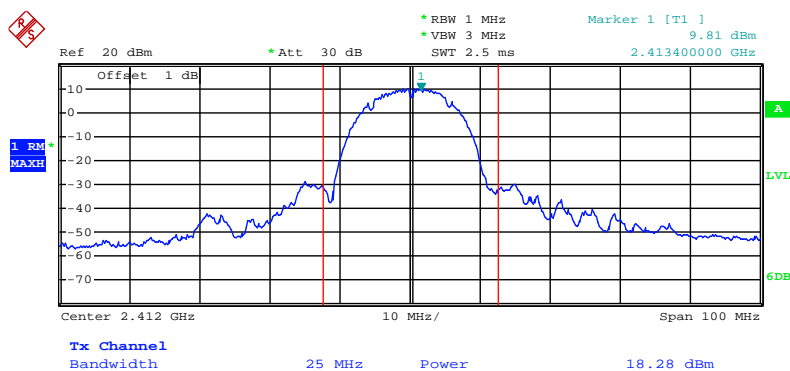
Date: 12.AUG.2010 21:46:24

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2462 MHz



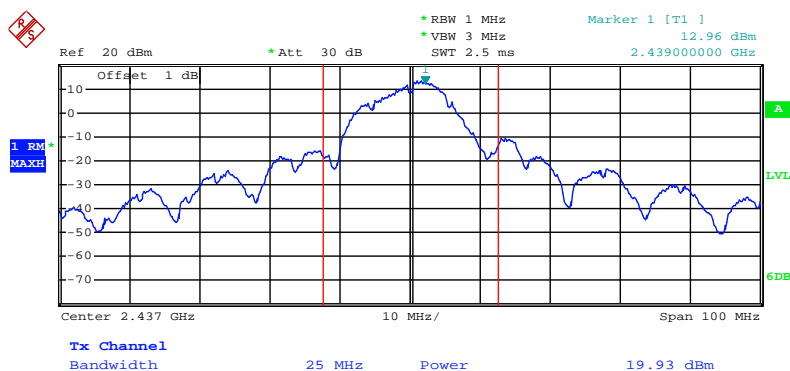
Date: 12.AUG.2010 21:47:42

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2412 MHz



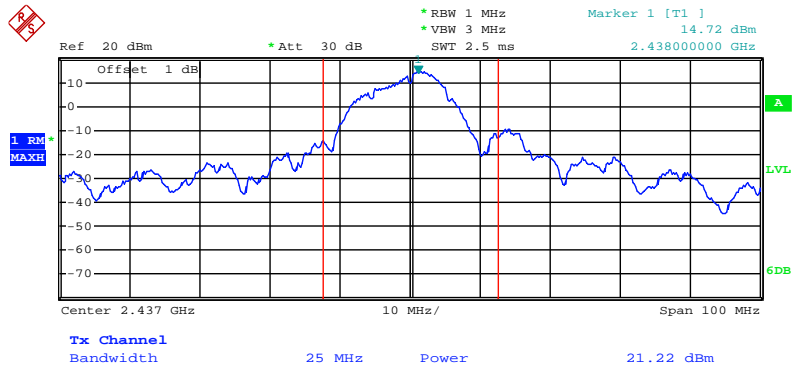
Date: 12.AUG.2010 21:44:25

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2437 MHz



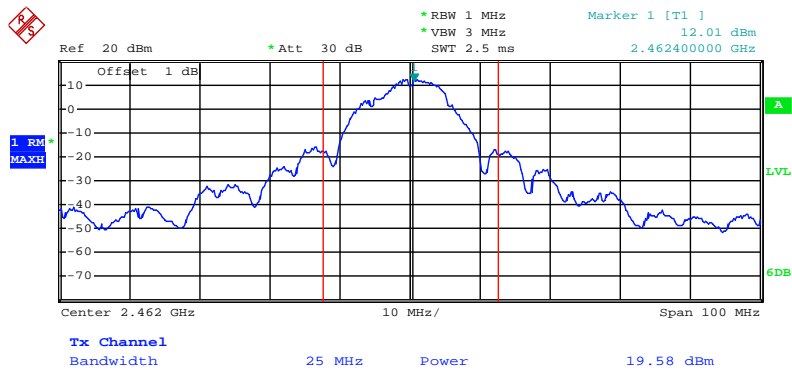
Date: 12.AUG.2010 21:46:00

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2437 MHz



Date: 12.AUG.2010 21:45:37

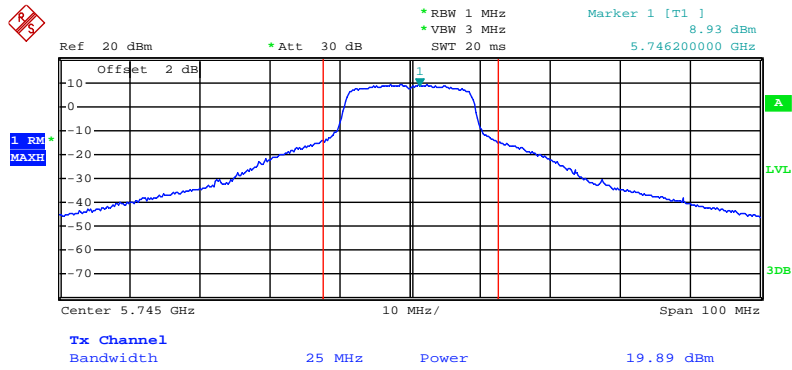
Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2462 MHz



Date: 12.AUG.2010 22:15:55

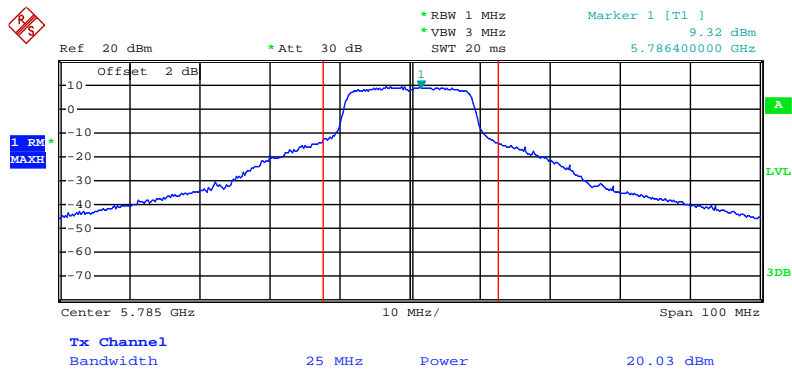
<For Mode 6 (Ant. 6)>:

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5745 MHz



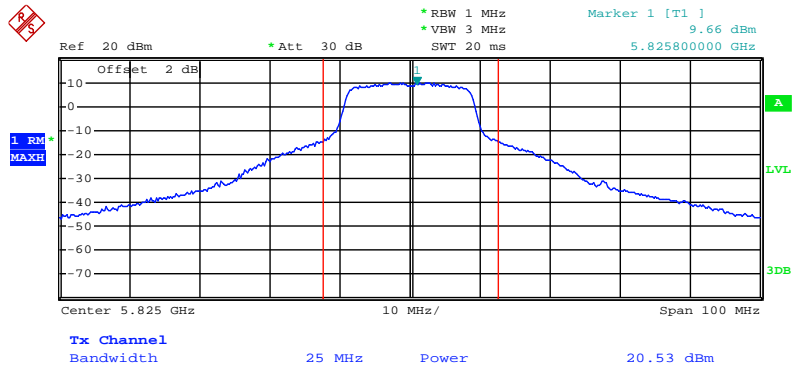
Date: 11.AUG.2010 23:58:10

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5785 MHz



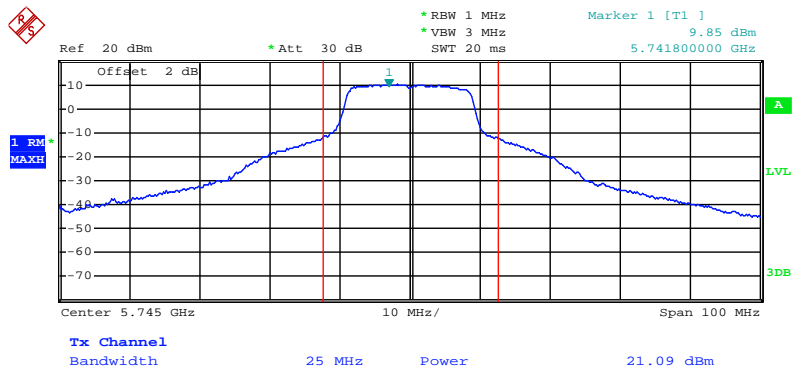
Date: 12.AUG.2010 00:05:41

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5825 MHz



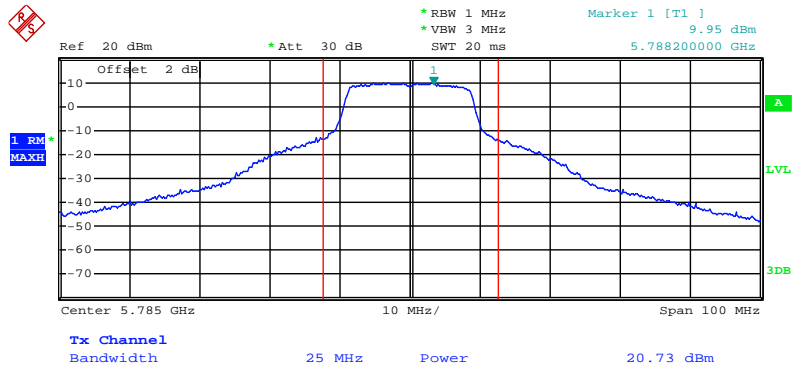
Date: 12.AUG.2010 00:08:13

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5745 MHz



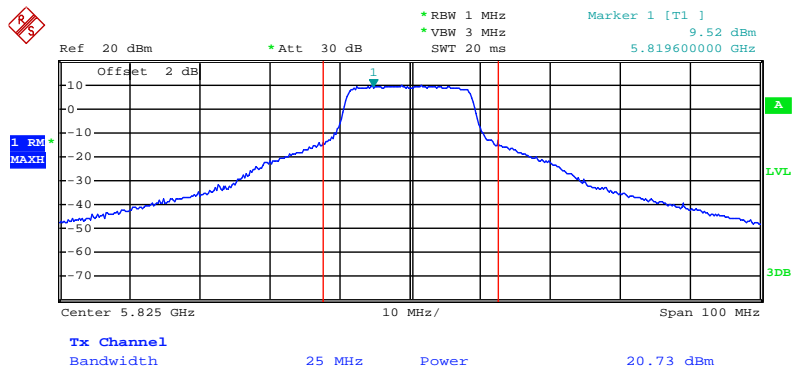
Date: 11.AUG.2010 23:56:51

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5785 MHz



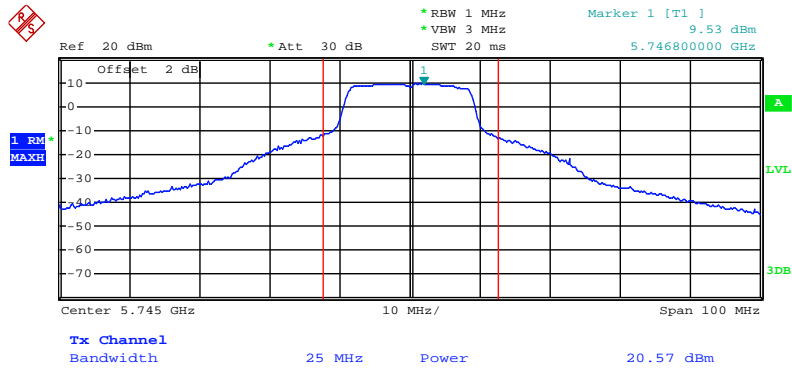
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5825 MHz



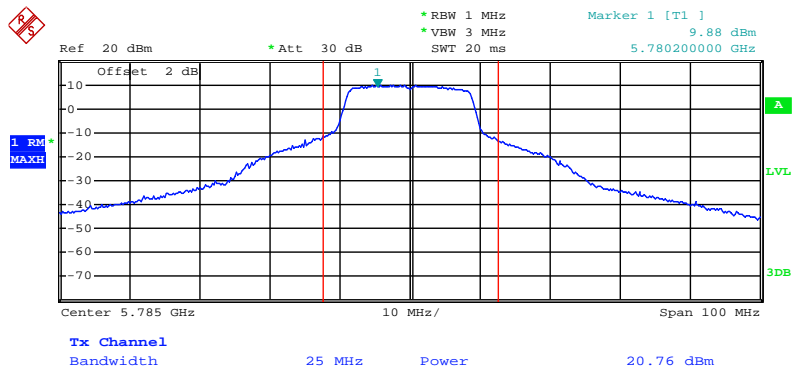
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5745 MHz



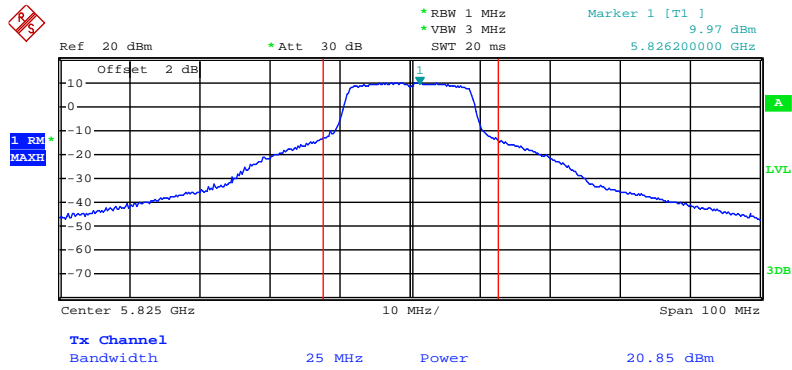
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5785 MHz



Date: 12.AUG.2010 00:04:38

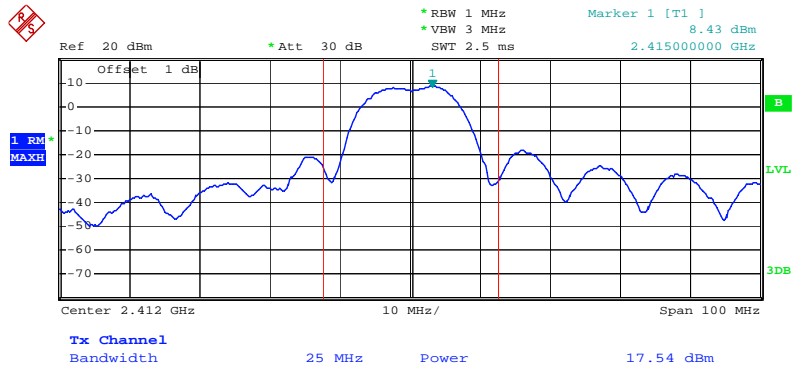
Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5825 MHz



Date: 12.AUG.2010 00:14:16

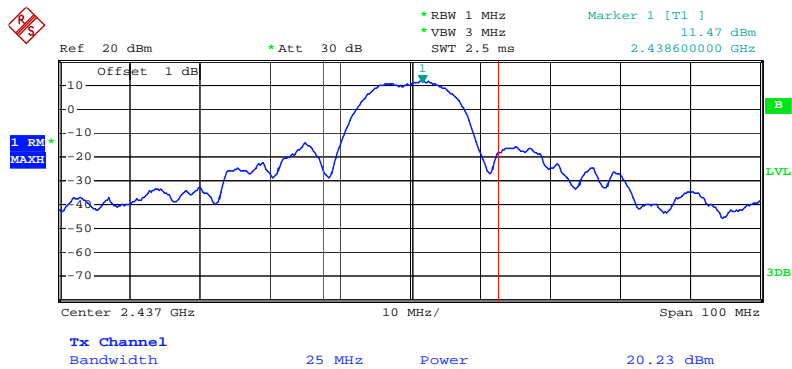
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Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2412 MHz



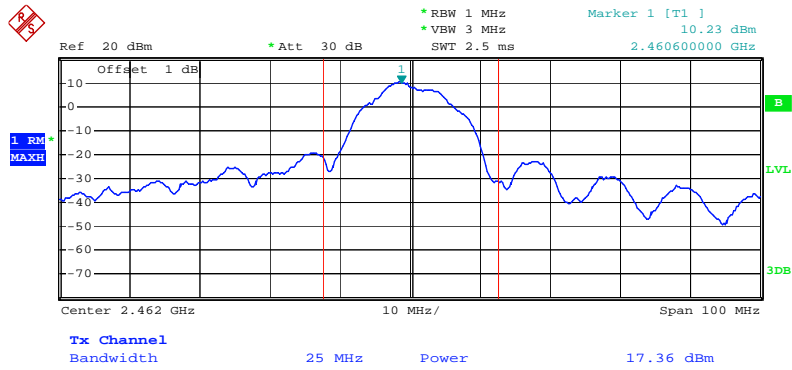
Date: 2.SEP.2010 11:49:19

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2437 MHz



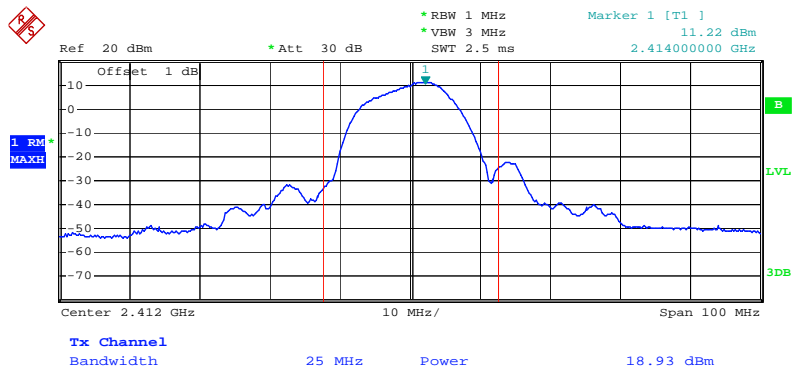
Date: 2.SEP.2010 11:57:29

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2462 MHz



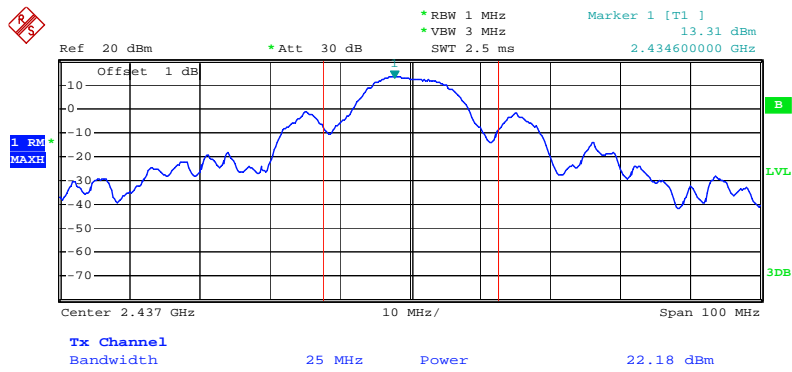
Date: 2.SEP.2010 13:42:46

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2412 MHz



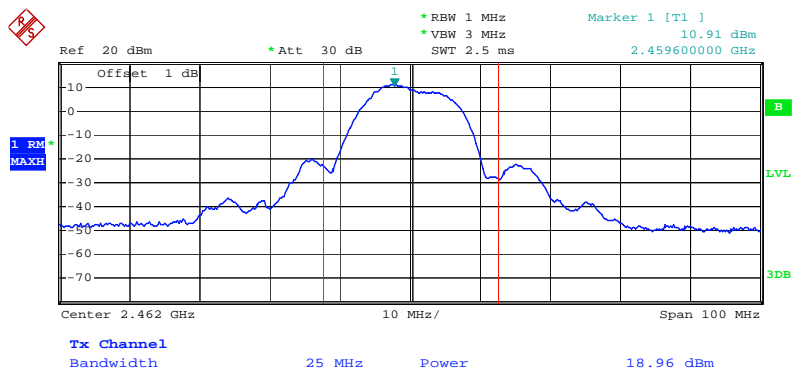
Date: 2.SEP.2010 11:47:23

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2437 MHz



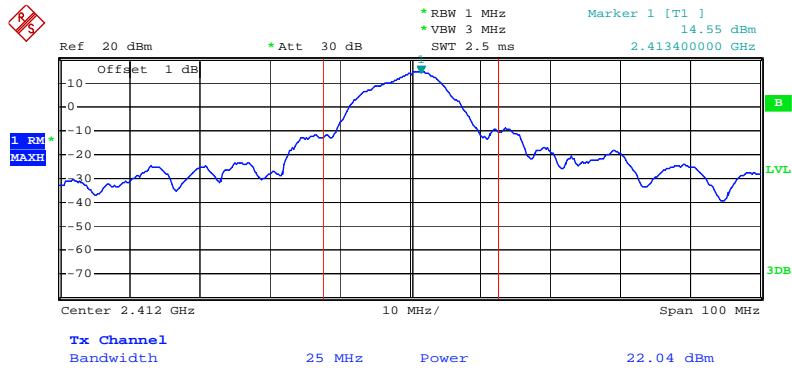
Date: 2.SEP.2010 12:02:25

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2462 MHz



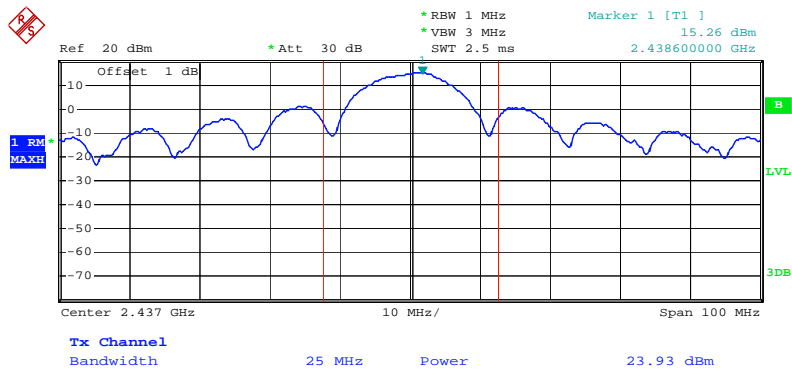
Date: 2.SEP.2010 13:41:33

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2412 MHz



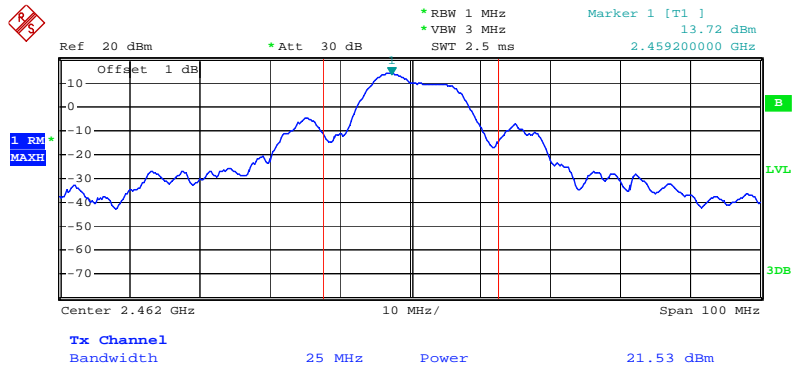
Date: 2.SEP.2010 11:46:20

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2437 MHz



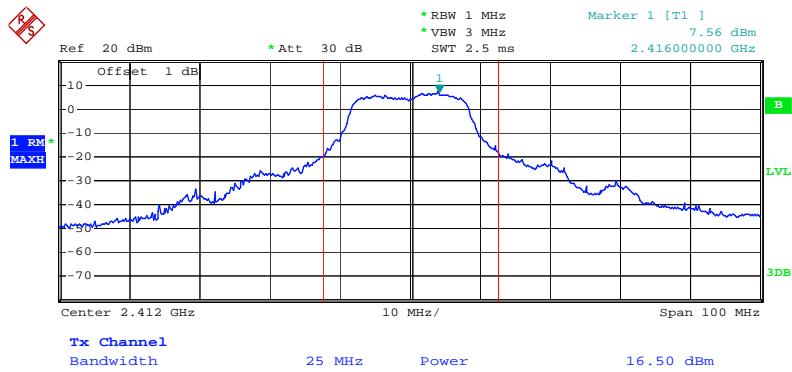
Date: 2.SEP.2010 12:05:10

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2462 MHz



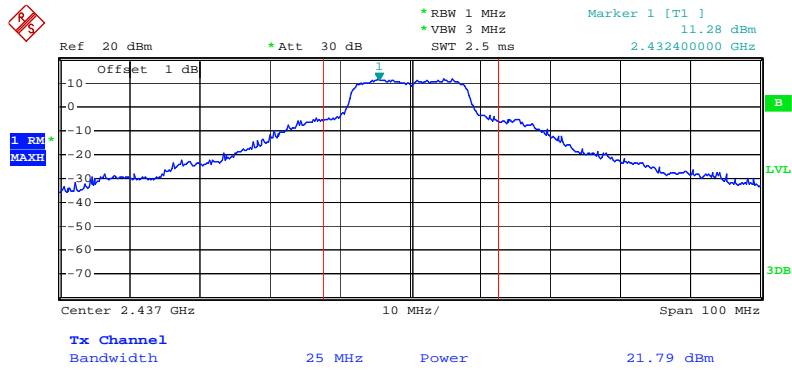
Date: 2.SEP.2010 13:39:49

Conducted Output Power Plot on Configuration IEEE 802.11g J2 / 2412 MHz



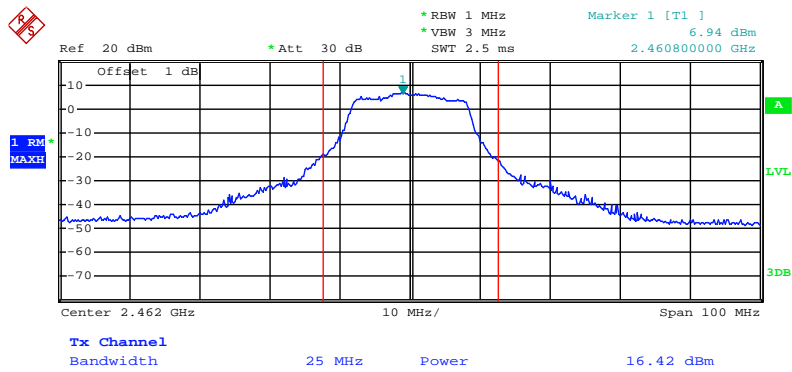
Date: 2.SEP.2010 13:45:04

Conducted Output Power Plot on Configuration IEEE 802.11g J2 / 2437 MHz



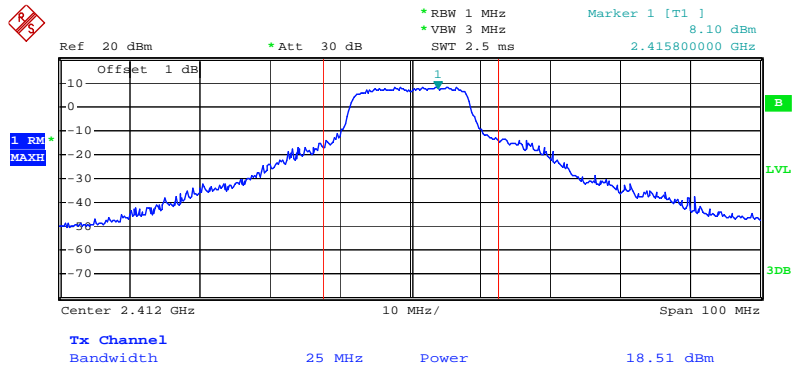
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Conducted Output Power Plot on Configuration IEEE 802.11g J2 / 2462 MHz



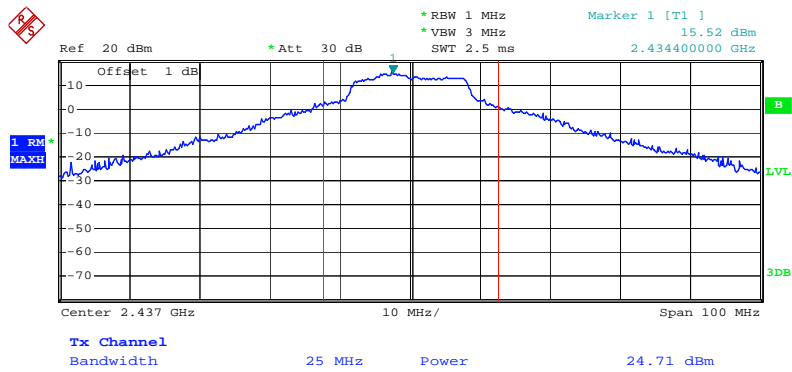
Date: 11.AUG.2010 21:44:13

Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2412 MHz



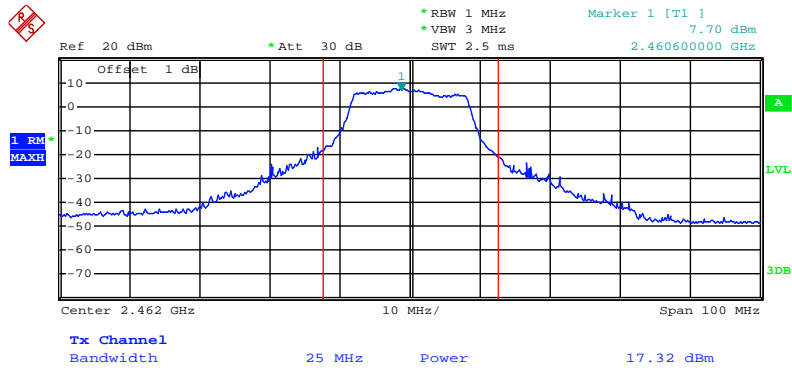
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Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2437 MHz



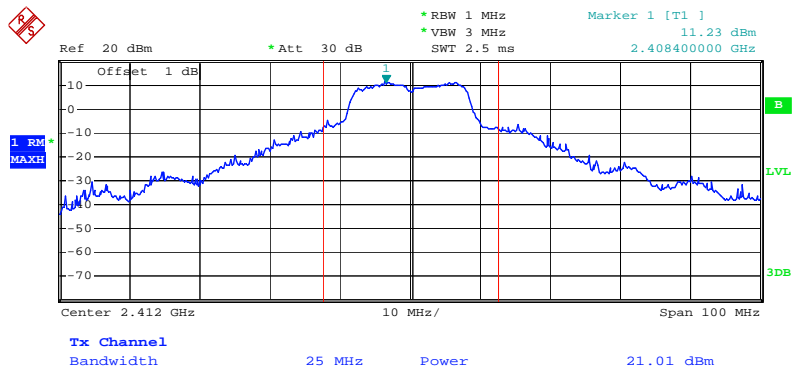
Date: 2.SEP.2010 13:48:36

Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2462 MHz



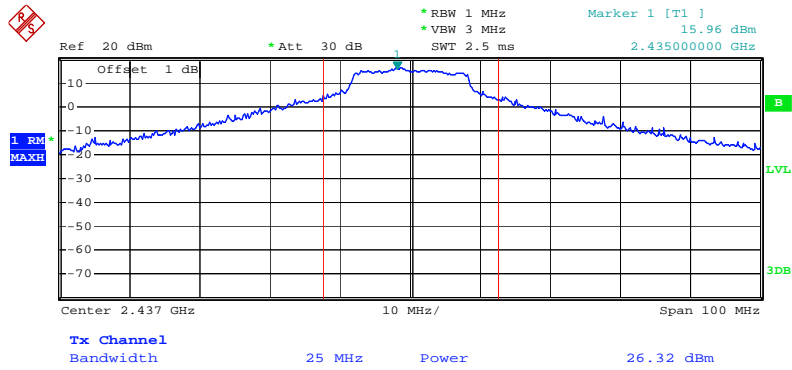
Date: 11.AUG.2010 21:44:59

Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2412 MHz



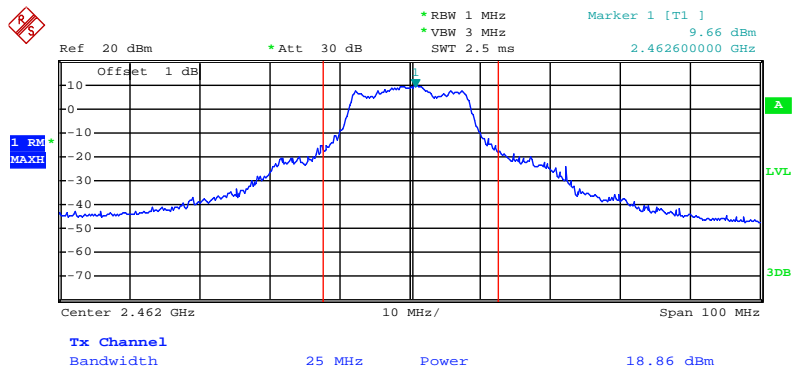
Date: 2.SEP.2010 13:46:46

Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2437 MHz



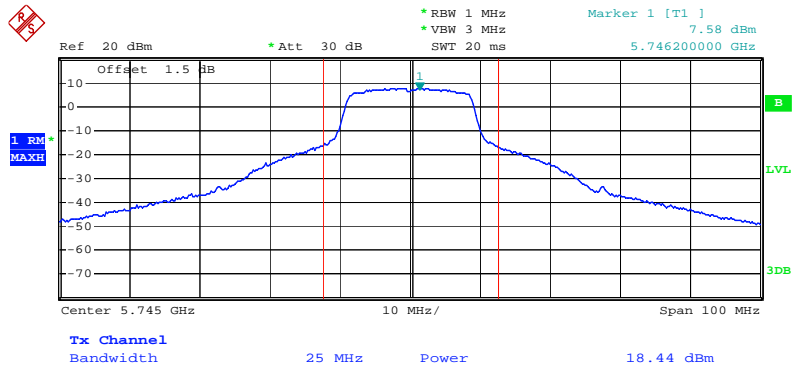
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Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2462 MHz



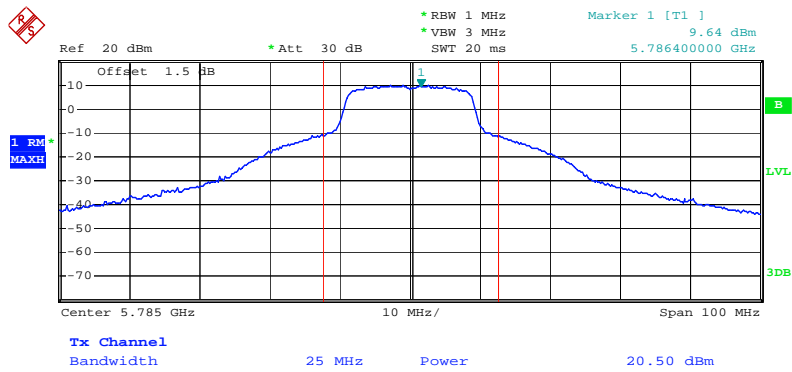
Date: 11.AUG.2010 21:45:38

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5745 MHz



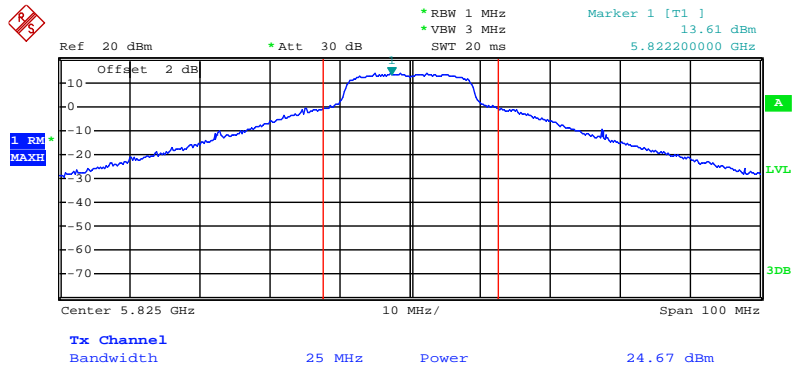
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5785MHz



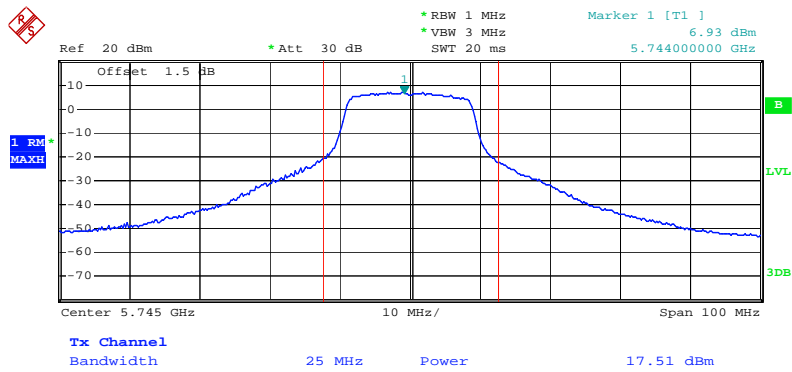
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5825 MHz



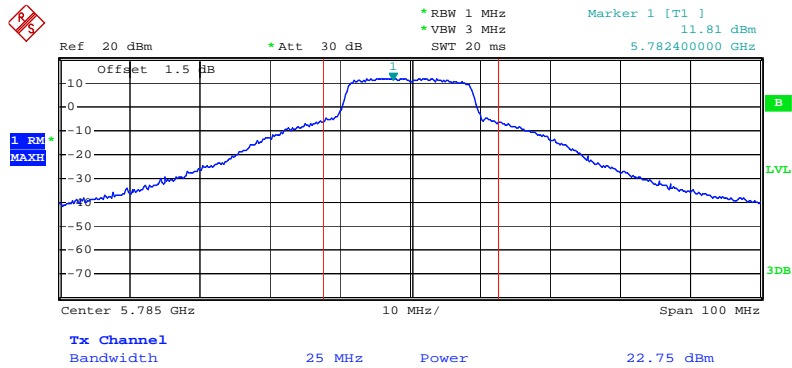
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5745 MHz



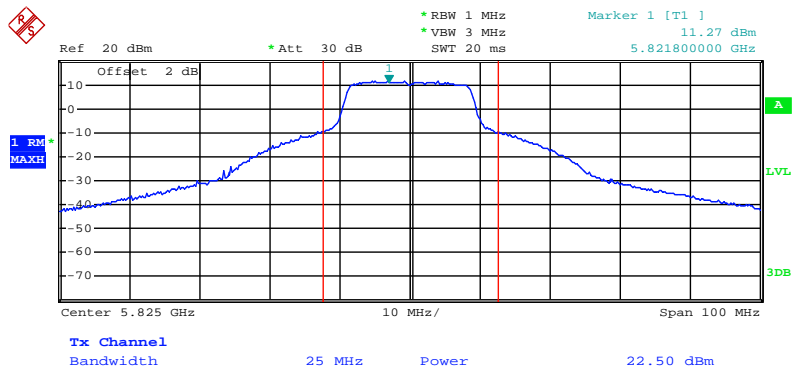
Date: 2.SEP.2010 14:47:35

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5785MHz



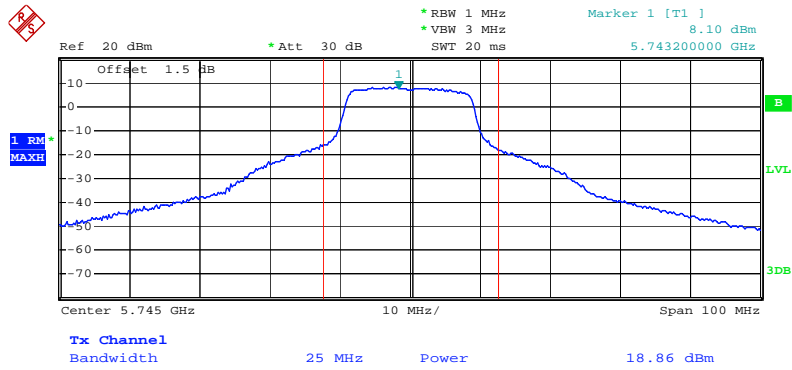
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5825 MHz



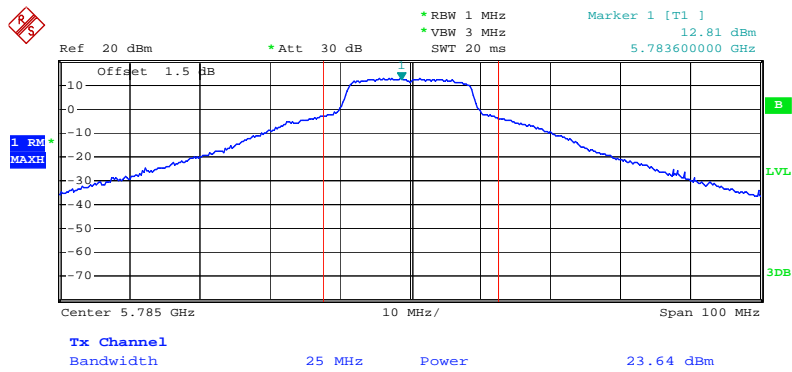
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5745 MHz



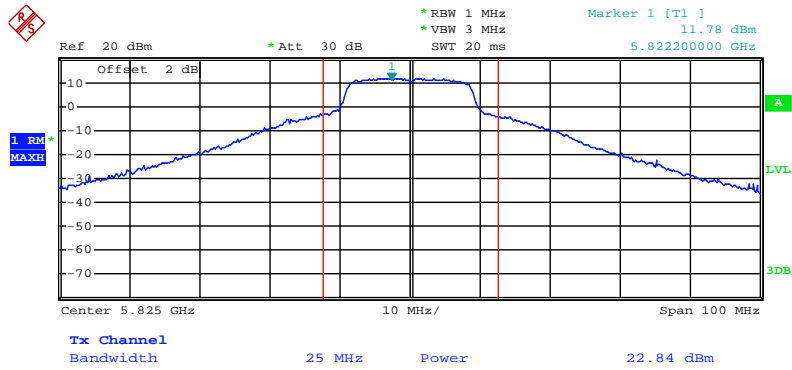
Date: 2.SEP.2010 14:46:23

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5785MHz



Date: 2.SEP.2010 14:52:03

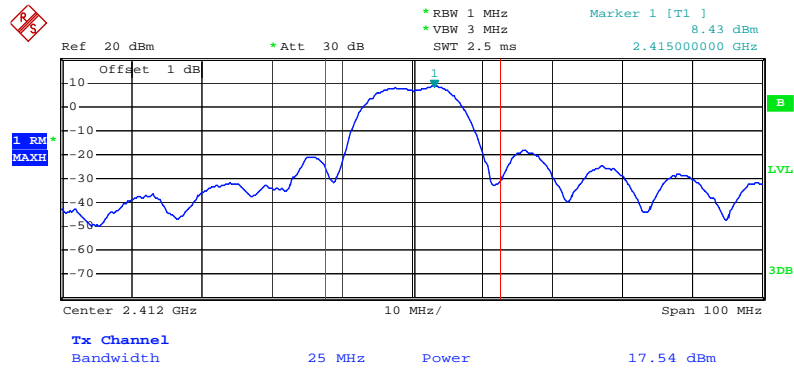
Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5825 MHz



Date: 11.AUG.2010 22:06:15

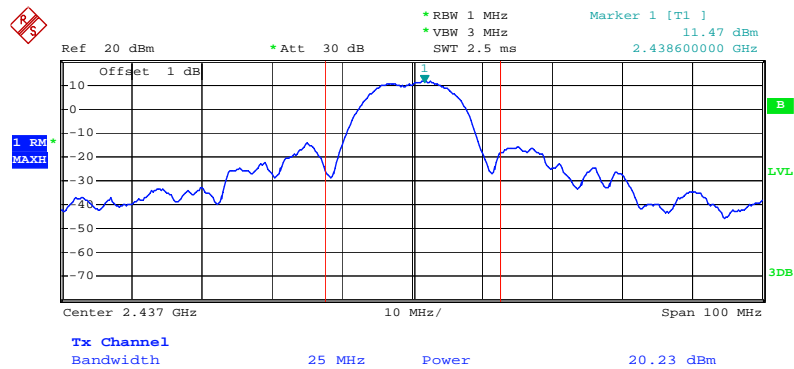
<For Mode 8 (Ant. 8)>:

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2412 MHz



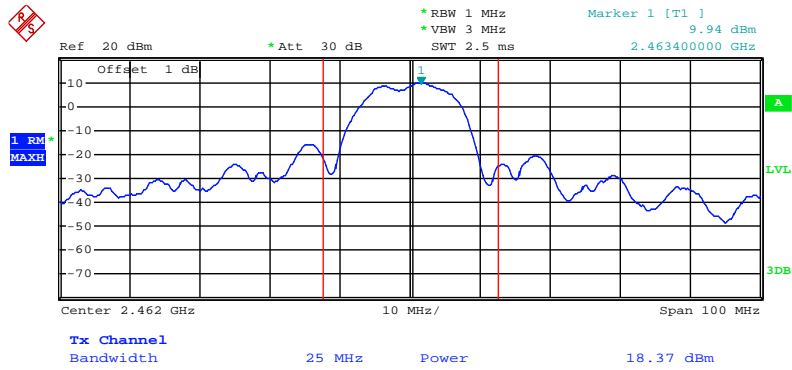
Date: 2.SEP.2010 11:49:19

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2437 MHz



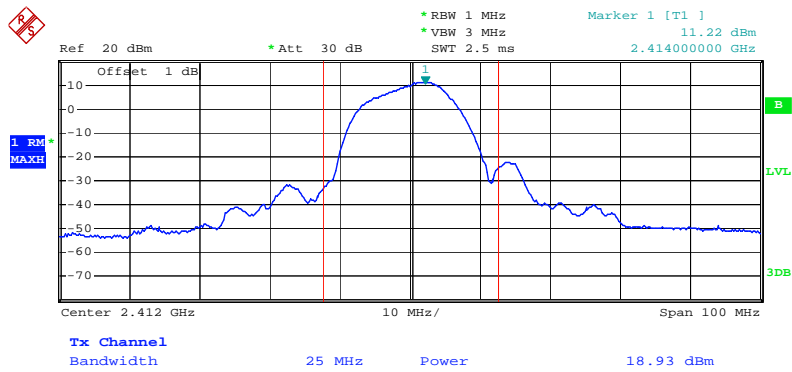
Date: 2.SEP.2010 11:57:29

Conducted Output Power Plot on Configuration IEEE 802.11b J2 / 2462 MHz



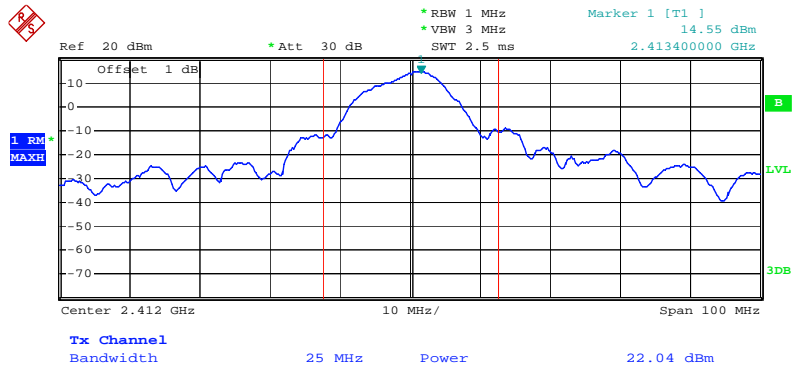
Date: 26.JAN.2011 18:00:38

Conducted Output Power Plot on Configuration IEEE 802.11b J3 / 2412 MHz



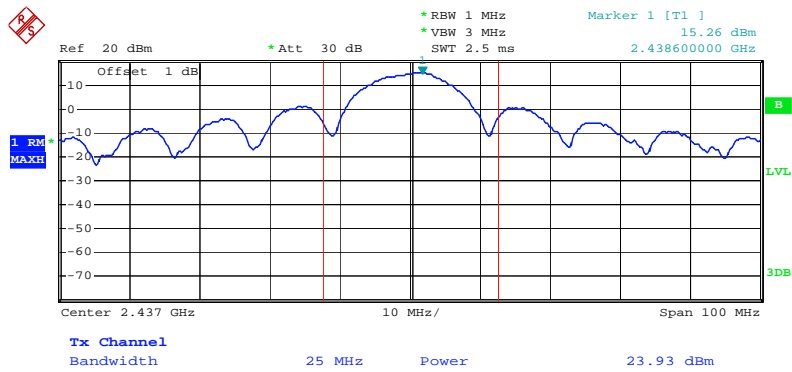
Date: 2.SEP.2010 11:47:23

Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2412 MHz



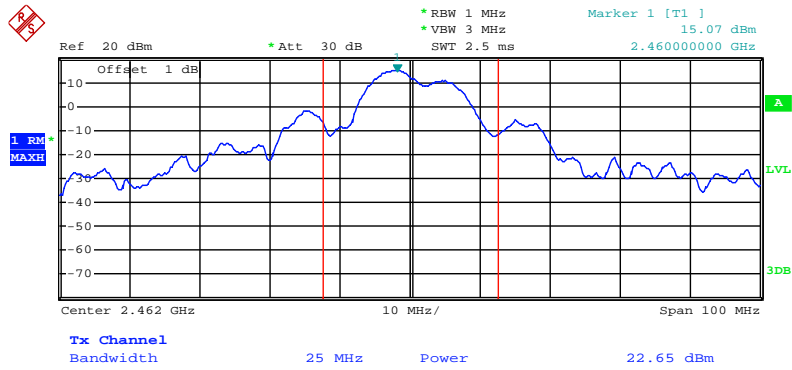
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Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2437 MHz



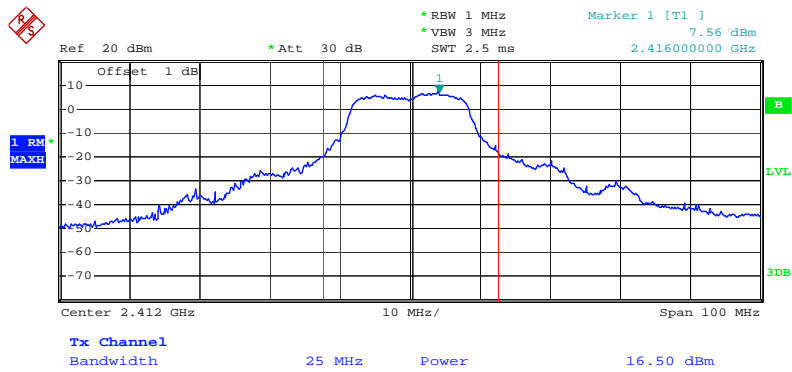
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Conducted Output Power Plot on Configuration IEEE 802.11b J4 / 2462 MHz



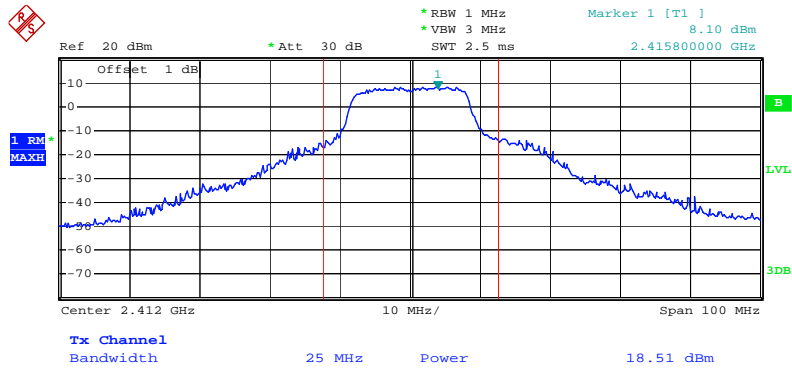
Date: 26.JAN.2011 17:58:59

Conducted Output Power Plot on Configuration IEEE 802.11g J2 / 2412 MHz



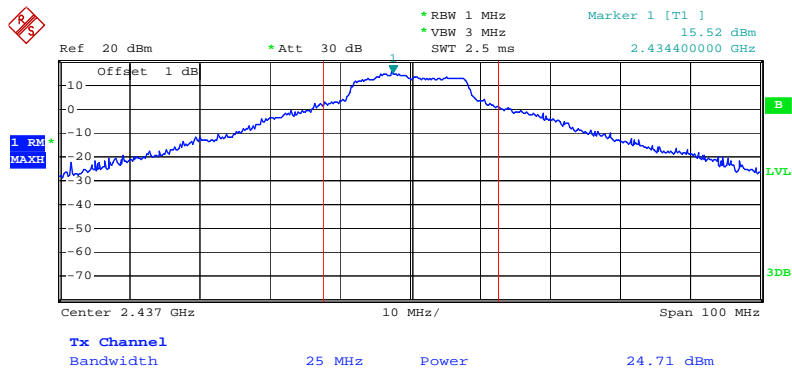
Date: 2.SEP.2010 13:45:04

Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2412 MHz



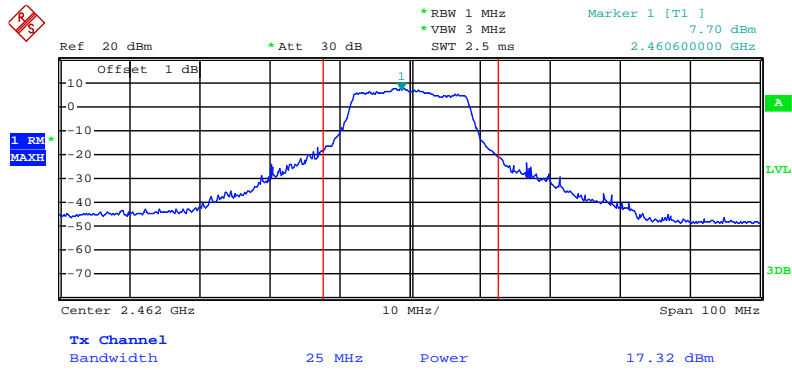
Date: 2.SEP.2010 13:45:57

Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2437 MHz



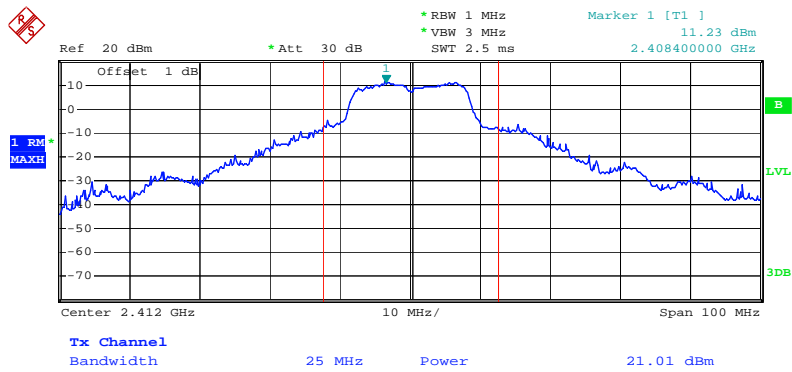
Date: 2.SEP.2010 13:48:36

Conducted Output Power Plot on Configuration IEEE 802.11g J3 / 2462 MHz



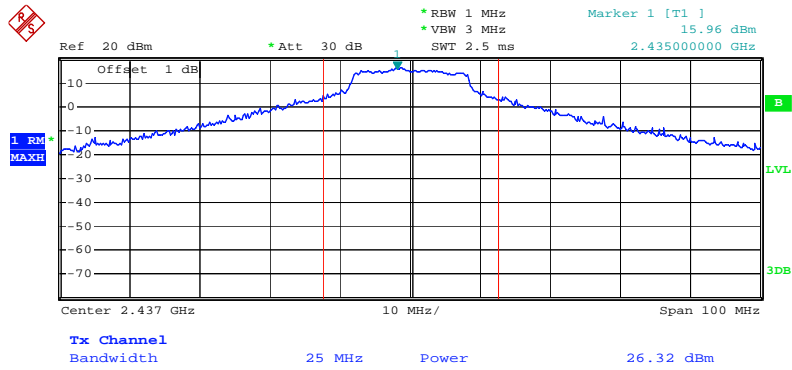
Date: 11.AUG.2010 21:44:59

Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2412 MHz



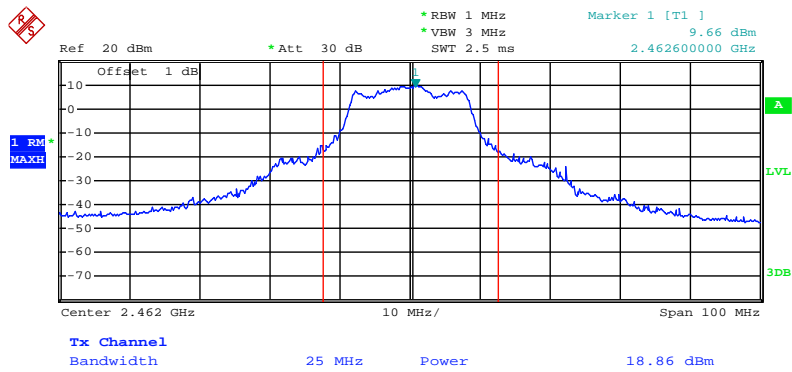
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Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2437 MHz



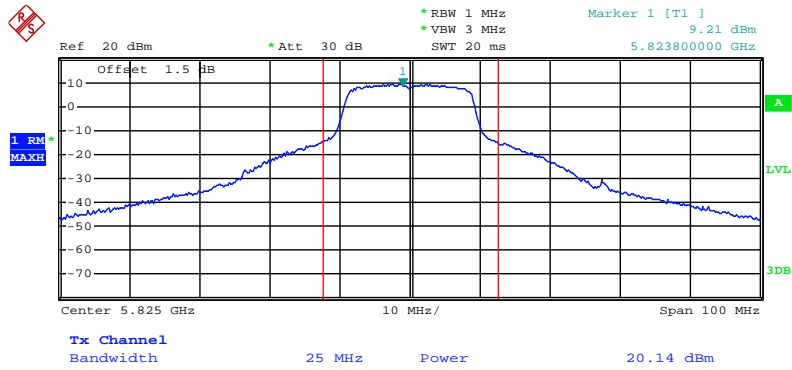
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Conducted Output Power Plot on Configuration IEEE 802.11g J4 / 2462 MHz



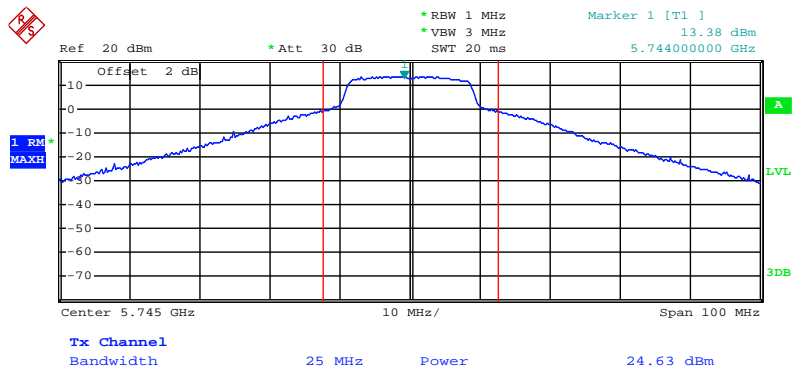
Date: 11.AUG.2010 21:45:38

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J2 / 5825 MHz



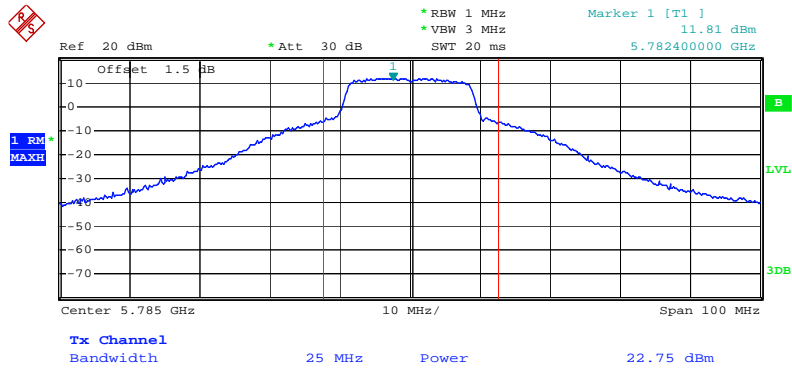
Date: 26.JAN.2011 19:07:55

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5745 MHz



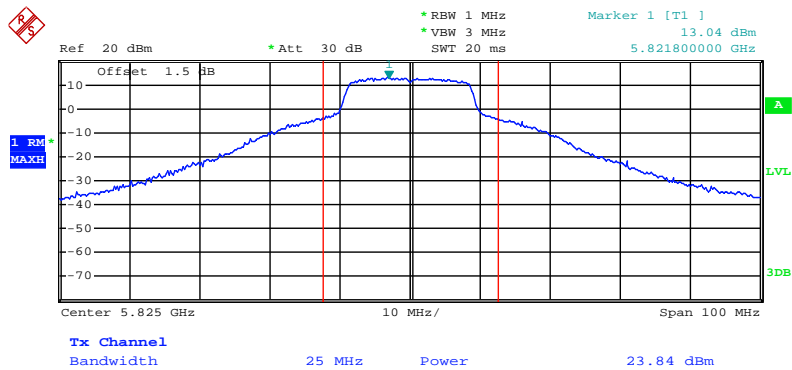
Date: 11.AUG.2010 22:09:52

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5785MHz



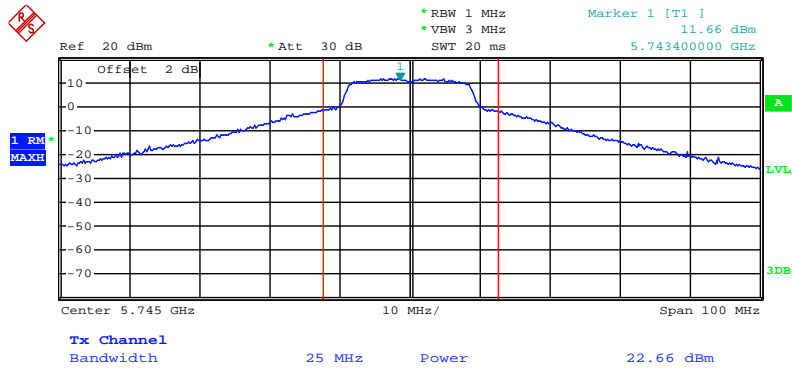
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J3 / 5825 MHz



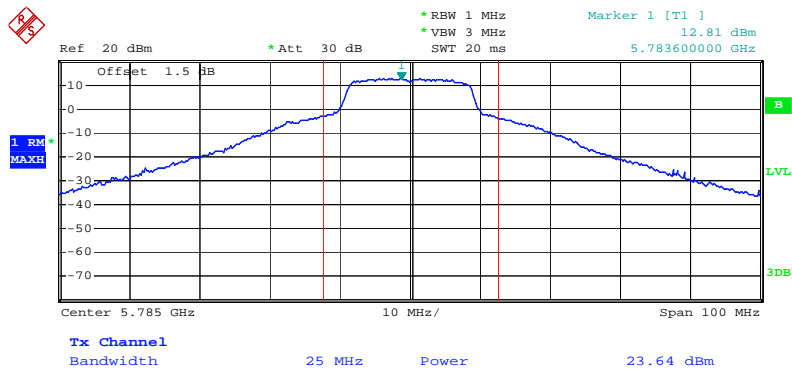
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Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5745 MHz



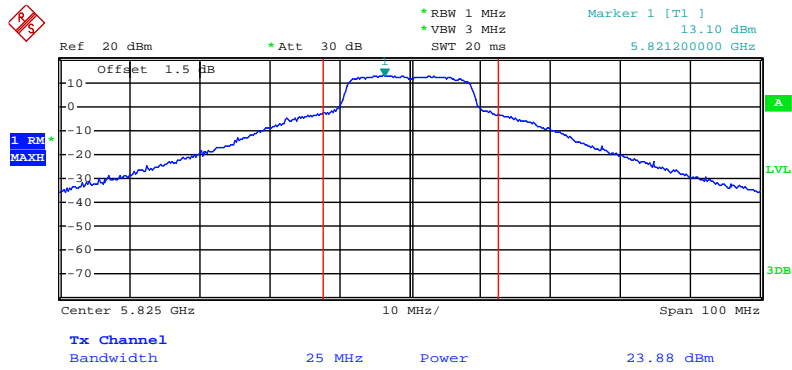
Date: 11.AUG.2010 22:10:23

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5785MHz



Date: 2.SEP.2010 14:52:03

Channel Output Power Plot on Configuration IEEE 802.11 an MCS8 20MHz J4 / 5825 MHz



Date: 26.JAN.2011 19:09:35

4.3. Power Spectral Density Measurement

4.3.1. 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.

4.3.2. Measuring Instruments and Setting

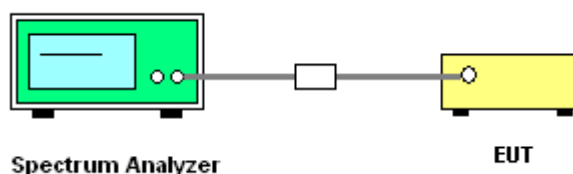
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter		Setting	
Attenuation	Auto		
Span Frequency	30 kHz		
RB	3 kHz		
VB	30 kHz		
Detector	Peak		
Trace	Max Hold		
Sweep Time	10s		
Cable Loss		Combiner Loss	
2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band
0.8	1.5	5.15	5.38

4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
4. Set the span to 30kHz and the sweep time to 10s and record the maximum peak value.
5. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Power Spectral Density

<For Mode 1 (Ant. 1)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 1 (Ant. 1)

Configuration IEEE 802.11an MCS8 20MHz J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-4.17	8.00	Complies
157	5785 MHz	-4.90	8.00	Complies
165	5825 MHz	-5.71	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-7.26	8.00	Complies
159	5795 MHz	-9.53	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 1 (Ant. 1)

Configuration IEEE 802.11a J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.60	8.00	Complies
157	5785 MHz	-2.83	8.00	Complies
165	5825 MHz	-2.74	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 2 (Ant. 2)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 2 (Ant. 2)

Configuration IEEE 802.11an MCS8 20MHz J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	1.03	8.00	Complies
157	5785 MHz	1.12	8.00	Complies
165	5825 MHz	1.67	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-5.41	8.00	Complies
159	5795 MHz	-2.30	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 2 (Ant. 2)

Configuration IEEE 802.11a J2+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	3.10	8.00	Complies
157	5785 MHz	1.96	8.00	Complies
165	5825 MHz	3.34	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 3 (Ant. 3)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 3 (Ant. 3)

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-7.15	8.00	Complies
6	2437 MHz	-6.32	8.00	Complies
11	2462 MHz	-7.78	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-16.06	8.00	Complies
6	2437 MHz	-12.55	8.00	Complies
9	2452 MHz	-14.68	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 3 (Ant. 3)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	2.86	8.00	Complies
6	2437 MHz	2.37	8.00	Complies
11	2462 MHz	1.93	8.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-2.60	8.00	Complies
6	2437 MHz	-3.58	8.00	Complies
11	2462 MHz	-2.69	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 4 (Ant. 4)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 4 (Ant. 4)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.24	8.00	Complies
6	2437 MHz	4.43	8.00	Complies
11	2462 MHz	-5.51	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-9.61	8.00	Complies
6	2437 MHz	-7.53	8.00	Complies
9	2452 MHz	-8.24	8.00	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	3.13	8.00	Complies
157	5785 MHz	2.65	8.00	Complies
165	5825 MHz	4.32	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-1.01	8.00	Complies
159	5795 MHz	-0.66	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11 a/b/g / Mode 4 (Ant. 4)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	2.09	8.00	Complies
6	2437 MHz	3.37	8.00	Complies
11	2462 MHz	0.28	8.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-0.57	8.00	Complies
6	2437 MHz	3.16	8.00	Complies
11	2462 MHz	-1.90	8.00	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	5.47	8.00	Complies
157	5785 MHz	5.20	8.00	Complies
165	5825 MHz	5.31	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 5 (Ant. 5)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 5 (Ant. 5)

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-6.48	8.00	Complies
6	2437 MHz	-1.22	8.00	Complies
11	2462 MHz	-3.74	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-11.67	8.00	Complies
6	2437 MHz	-9.31	8.00	Complies
9	2452 MHz	-10.24	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 5 (Ant. 5)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	1.23	8.00	Complies
6	2437 MHz	6.67	8.00	Complies
11	2462 MHz	2.00	8.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.36	8.00	Complies
6	2437 MHz	3.15	8.00	Complies
11	2462 MHz	-2.08	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 6 (Ant. 6)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 6 (Ant. 6)

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	0.74	8.00	Complies
157	5785 MHz	-0.10	8.00	Complies
165	5825 MHz	0.37	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-2.76	8.00	Complies
159	5795 MHz	-2.73	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 6 (Ant. 6)

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	2.57	8.00	Complies
157	5785 MHz	2.60	8.00	Complies
165	5825 MHz	2.40	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 7 (Ant. 7)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 7 (Ant. 7)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.12	8.00	Complies
6	2437 MHz	1.82	8.00	Complies
11	2462 MHz	-3.12	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-9.61	8.00	Complies
6	2437 MHz	-5.85	8.00	Complies
9	2452 MHz	-8.24	8.00	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-2.18	8.00	Complies
157	5785 MHz	0.50	8.00	Complies
165	5825 MHz	4.32	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-5.52	8.00	Complies
159	5795 MHz	-0.66	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11 a/b/g / Mode 7 (Ant. 7)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	1.71	8.00	Complies
6	2437 MHz	5.25	8.00	Complies
11	2462 MHz	2.35	8.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-0.76	8.00	Complies
6	2437 MHz	5.45	8.00	Complies
11	2462 MHz	-1.90	8.00	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-0.76	8.00	Complies
157	5785 MHz	5.45	8.00	Complies
165	5825 MHz	-1.90	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 8 (Ant. 8)>:

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11n / Mode 8 (Ant. 8)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.61	8.00	Complies
6	2437 MHz	-0.47	8.00	Complies
11	2462 MHz	-3.12	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-7.68	8.00	Complies
6	2437 MHz	-5.85	8.00	Complies
9	2452 MHz	-8.24	8.00	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	3.13	8.00	Complies
157	5785 MHz	0.50	8.00	Complies
165	5825 MHz	4.30	8.00	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-4.87	8.00	Complies
159	5795 MHz	-0.66	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11 a/b/g / Mode 8 (Ant. 8)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	1.71	8.00	Complies
6	2437 MHz	5.25	8.00	Complies
11	2462 MHz	2.33	8.00	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-0.76	8.00	Complies
6	2437 MHz	5.45	8.00	Complies
11	2462 MHz	-1.90	8.00	Complies

Configuration IEEE 802.11a J2+J3+J4

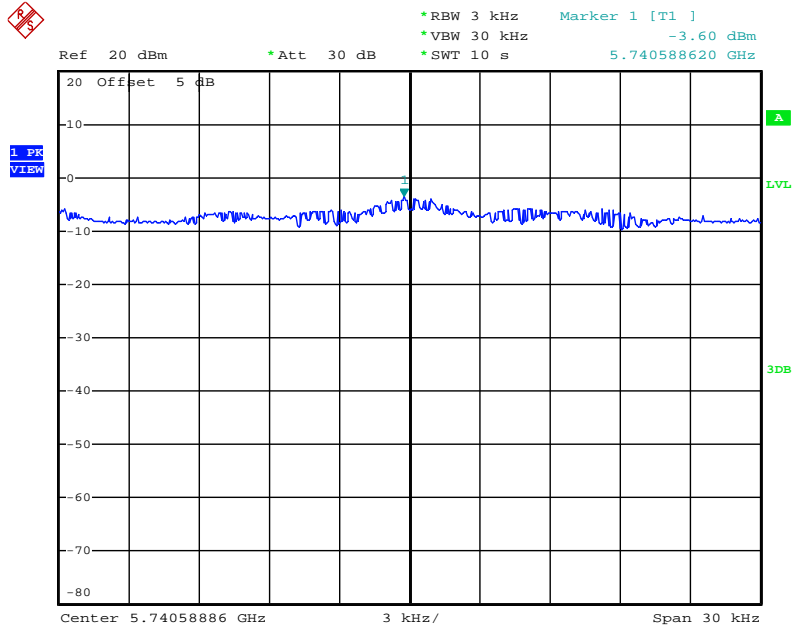
Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	2.71	8.00	Complies
157	5785 MHz	0.95	8.00	Complies
165	5825 MHz	5.31	8.00	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

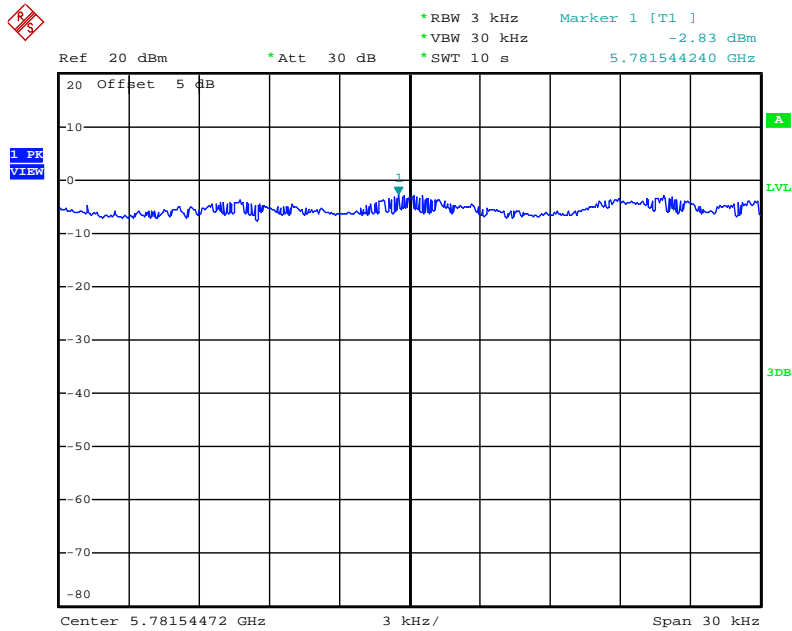
<For Mode 1 (Ant. 1)>:

Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5745 MHz



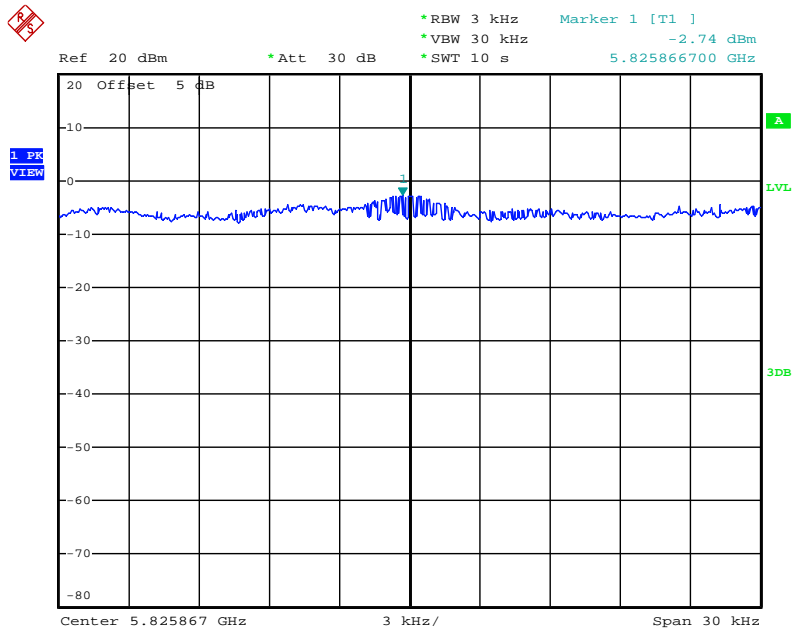
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Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5785 MHz



Date: 12.AUG.2010 15:47:03

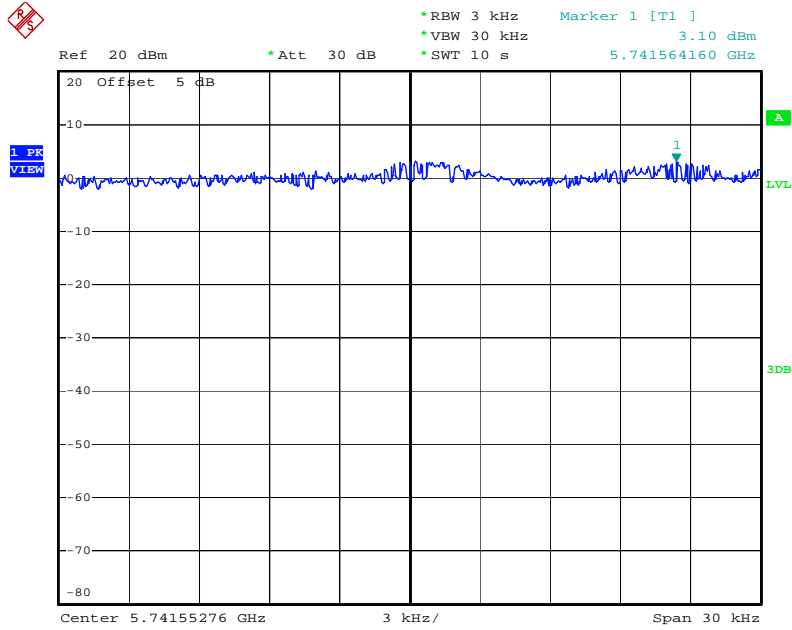
Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5825 MHz



Date: 12.AUG.2010 15:48:48

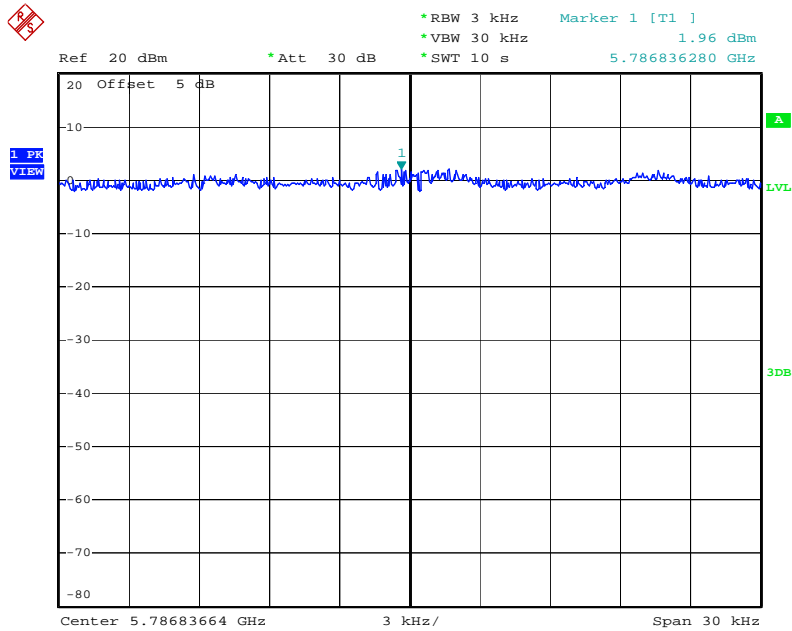
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Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5745 MHz



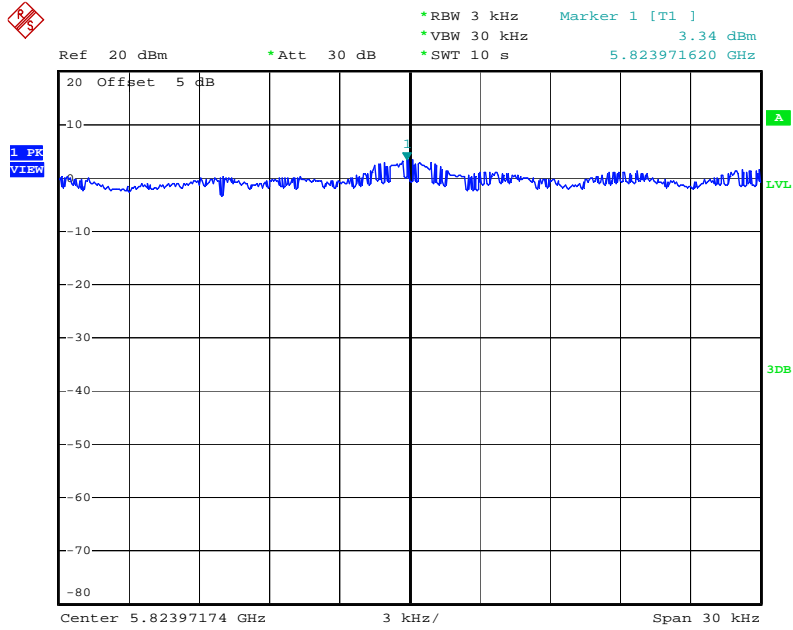
Date: 11.AUG.2010 19:52:23

Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5785 MHz



Date: 11.AUG.2010 19:49:30

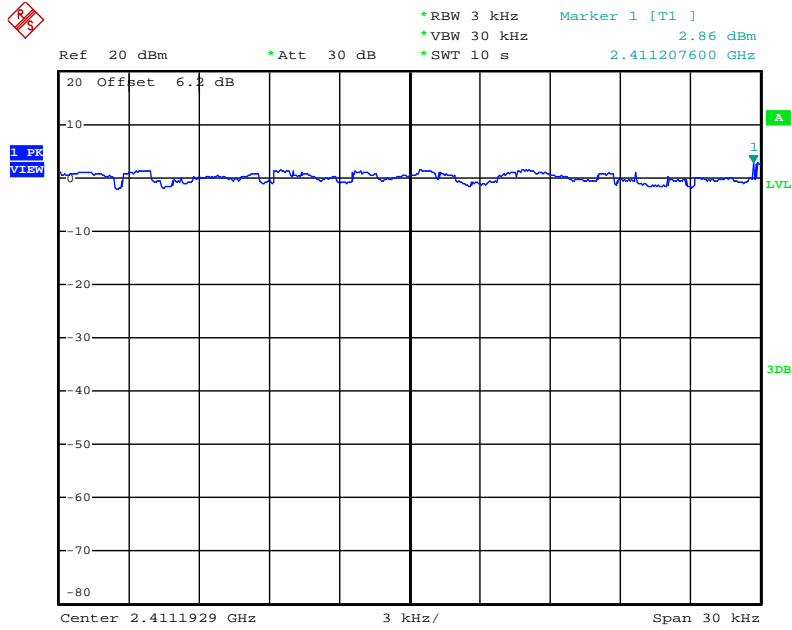
Power Density Plot on Configuration IEEE 802.11a J2+J3 / 5825 MHz



Date: 11.AUG.2010 19:46:31

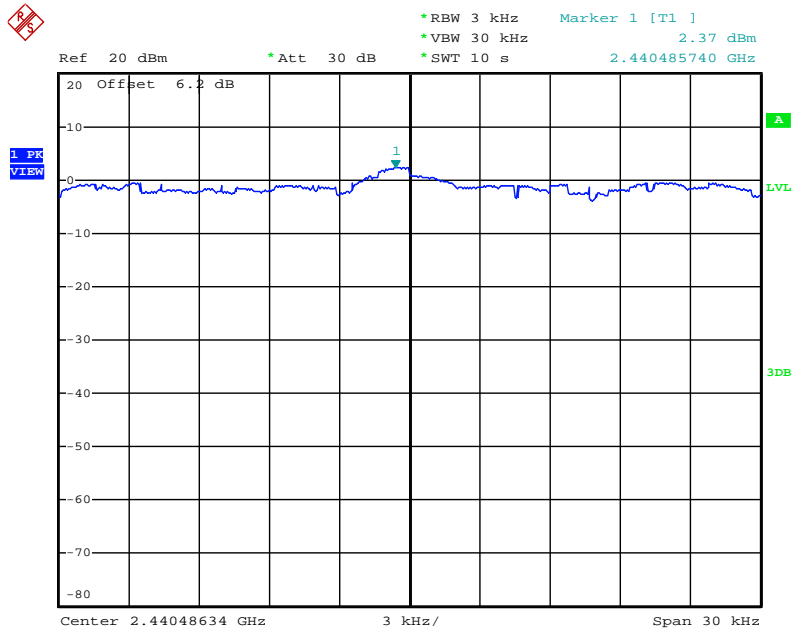
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



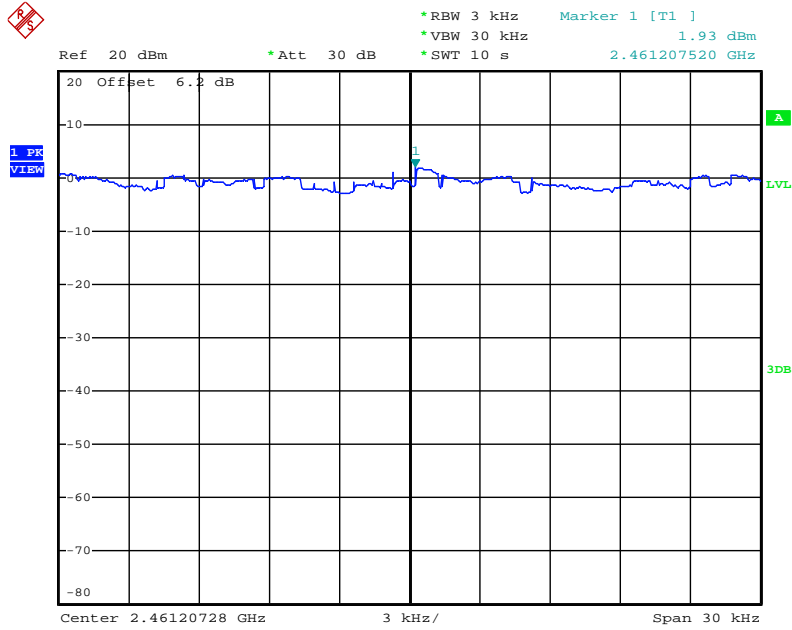
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



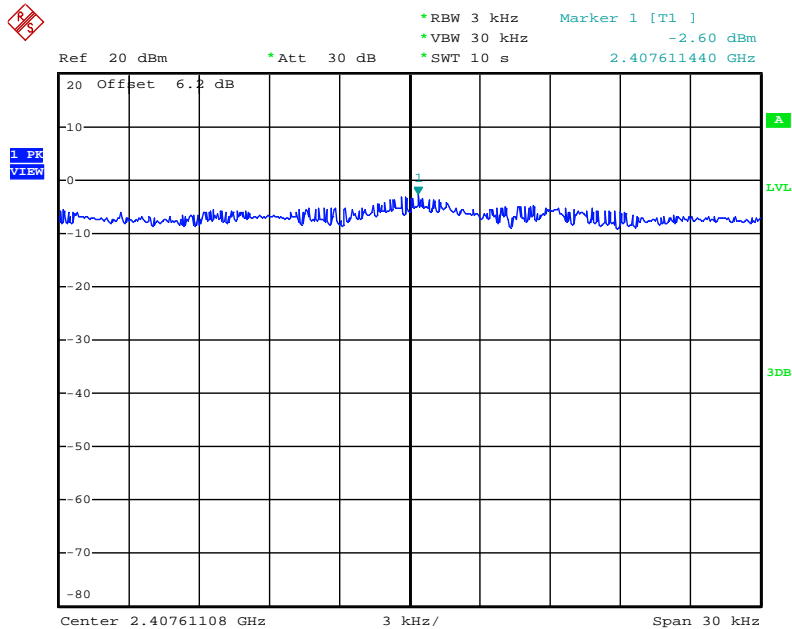
Date: 12.AUG.2010 02:33:26

Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



Date: 12.AUG.2010 02:35:27

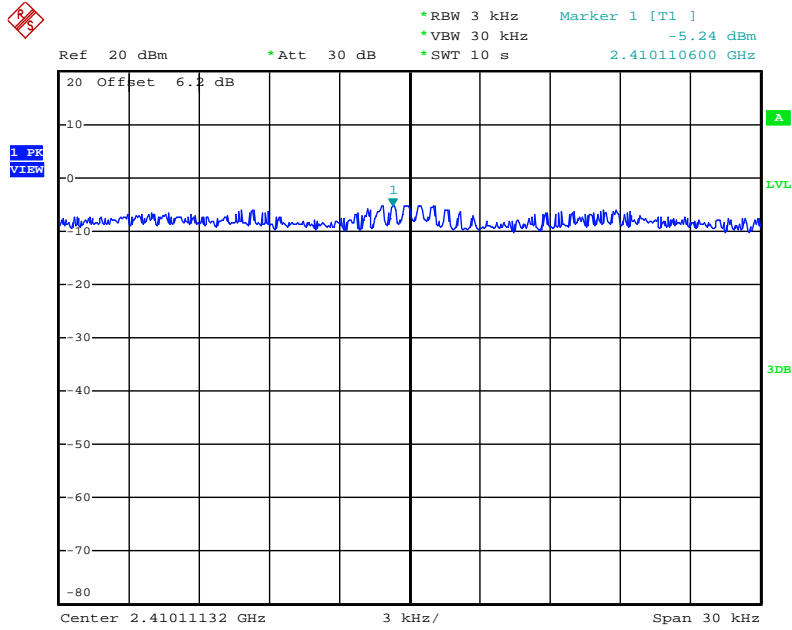
Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



Date: 12.AUG.2010 02:41:44

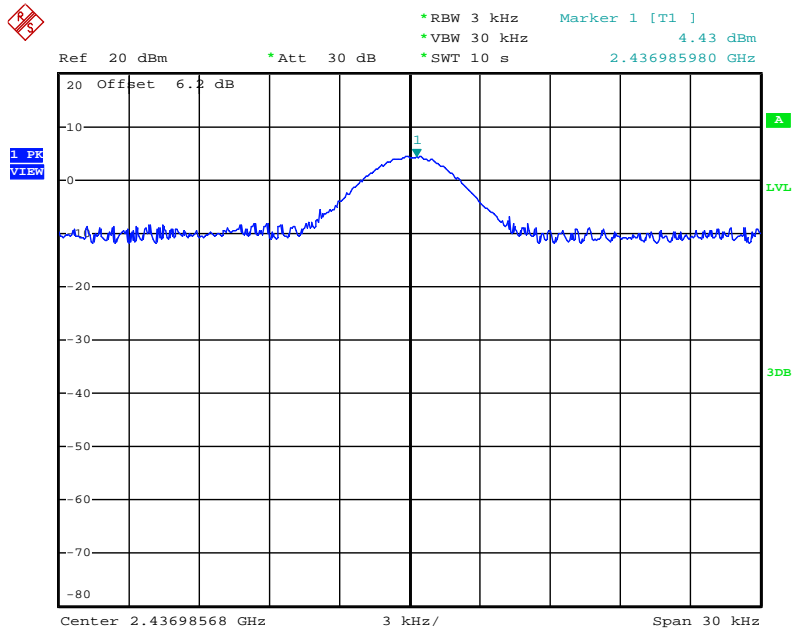
<For Mode 4 (Ant. 4)>:

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



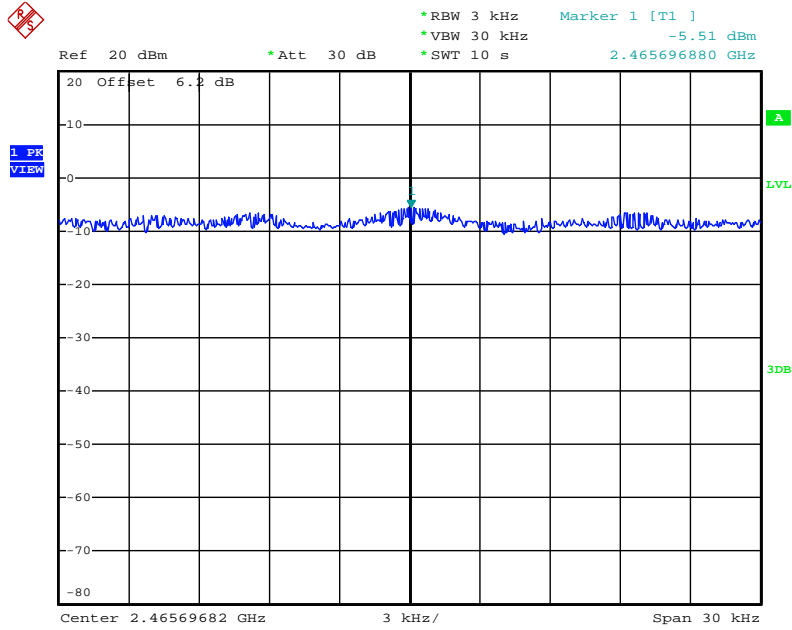
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Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



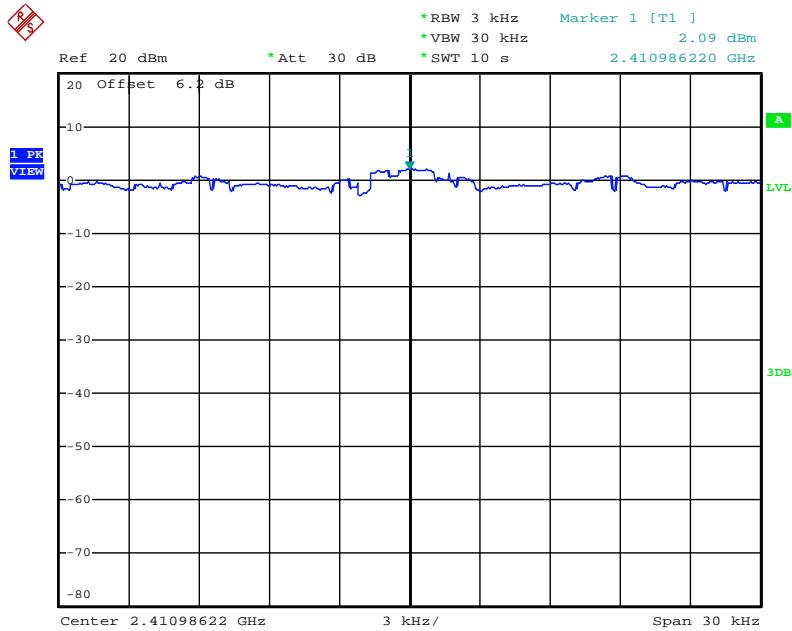
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Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2462 MHz



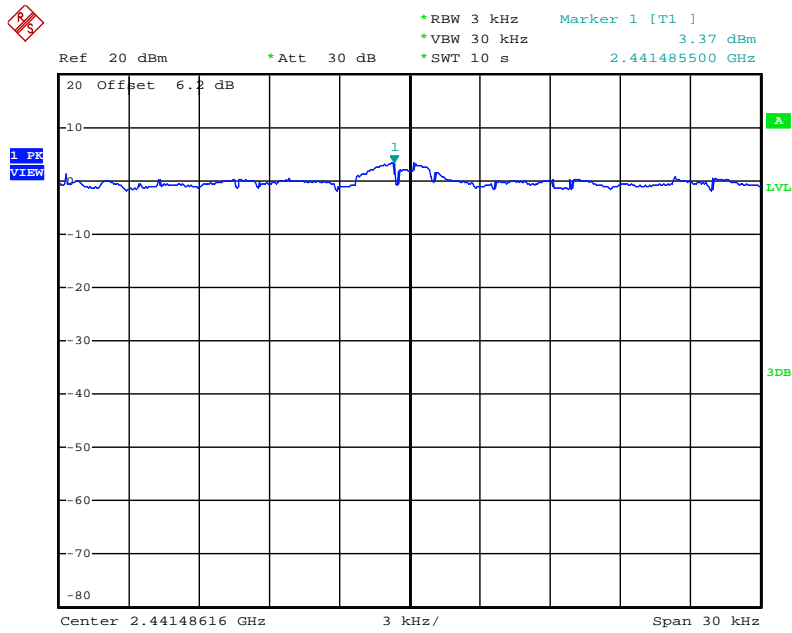
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



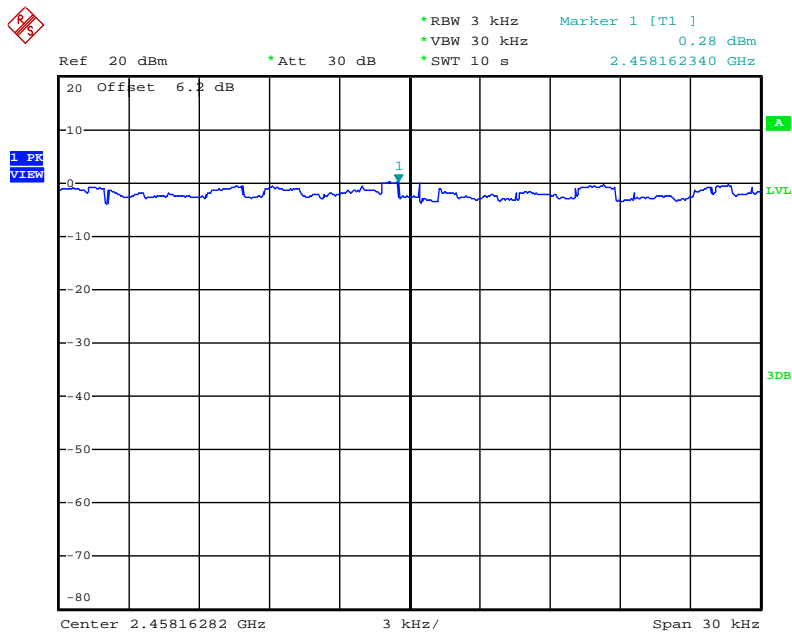
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



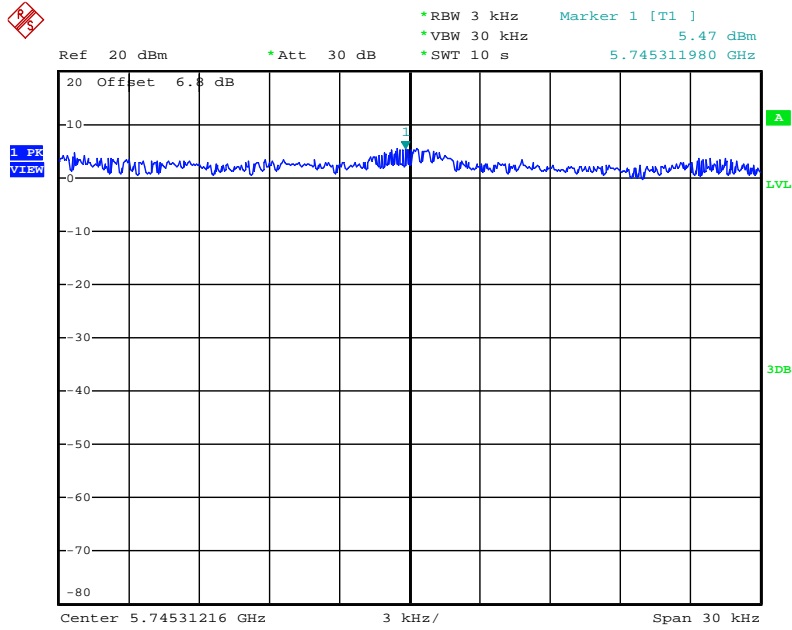
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



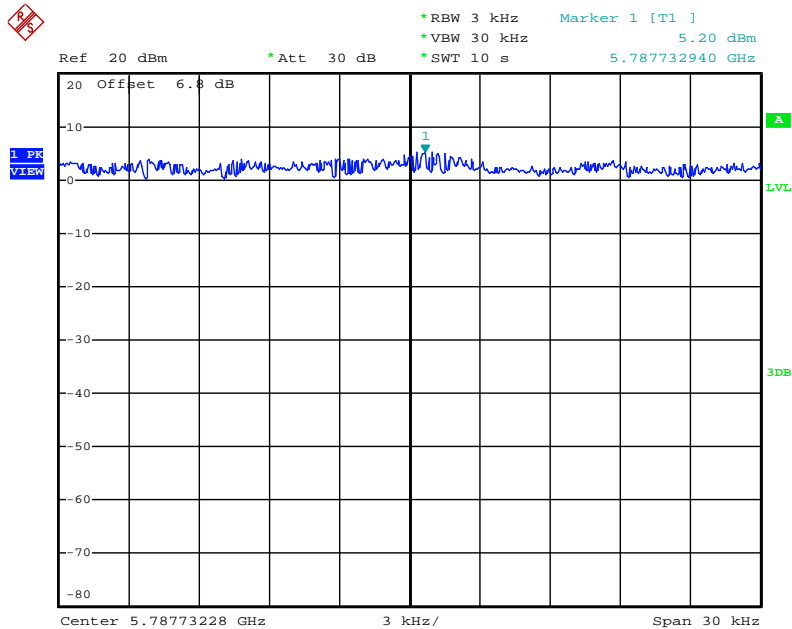
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Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



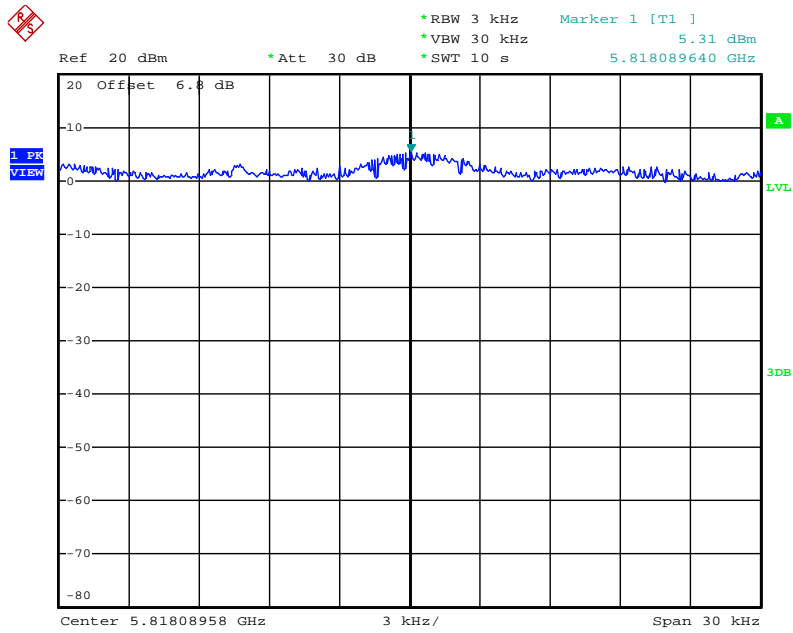
Date: 12.AUG.2010 23:01:31

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785 MHz



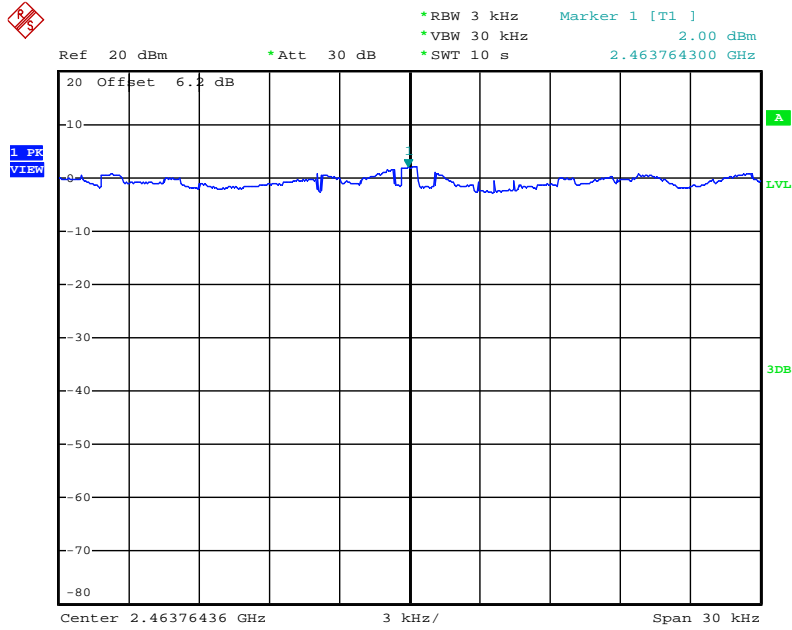
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Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



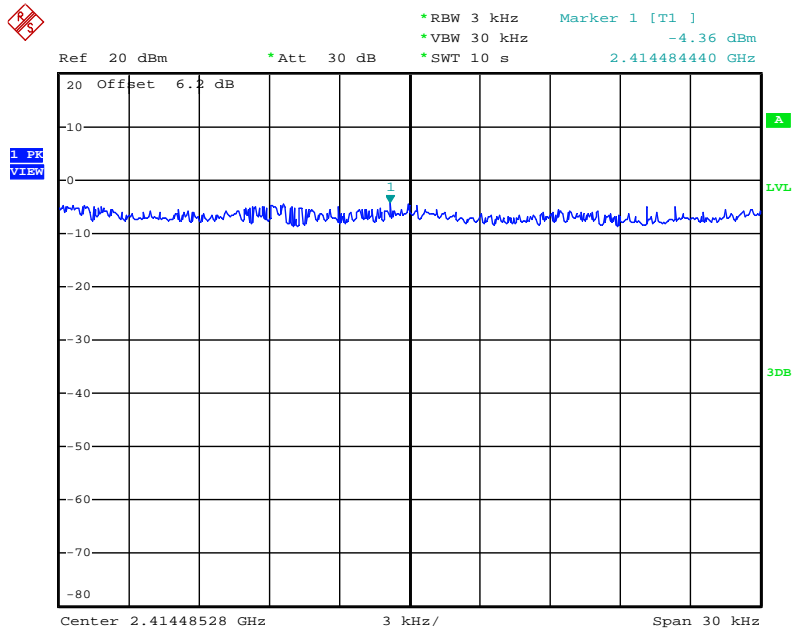
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



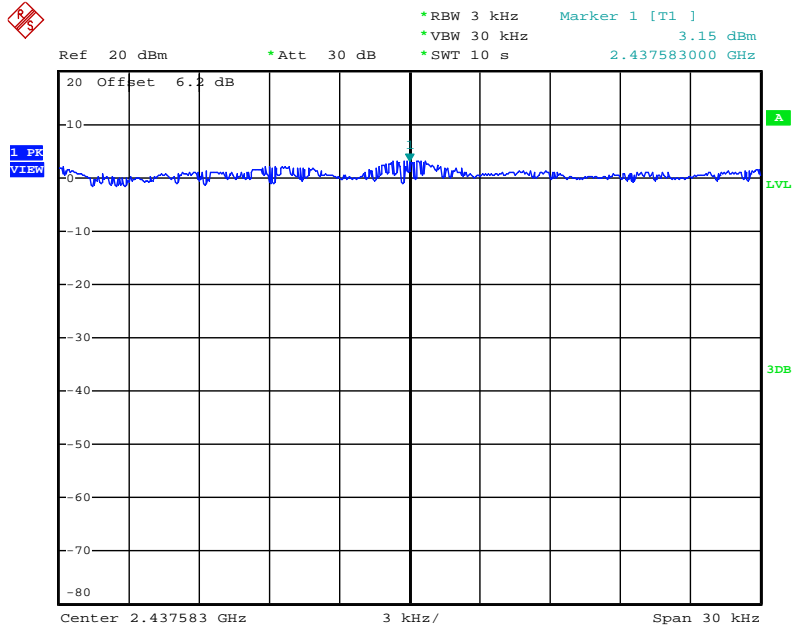
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Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



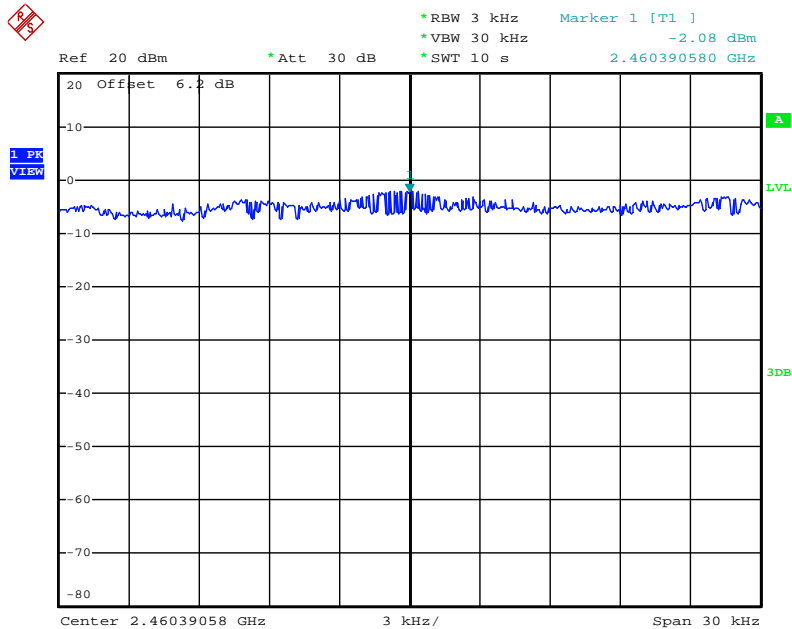
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Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



Date: 12.AUG.2010 22:29:42

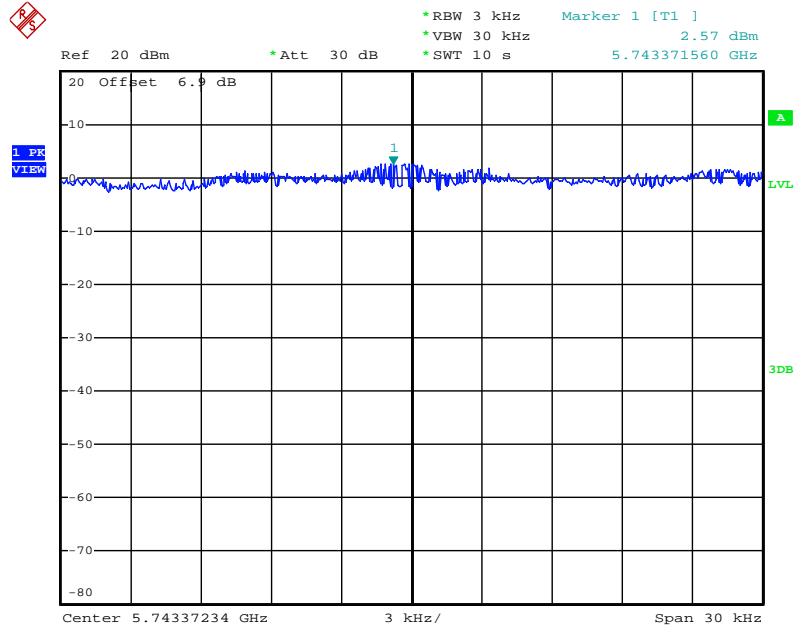
Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



Date: 12.AUG.2010 22:31:39

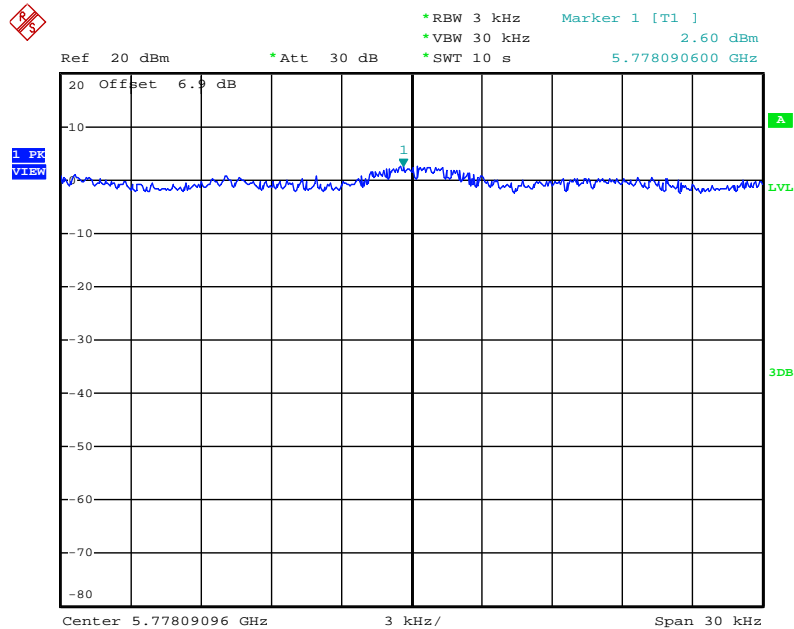
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Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



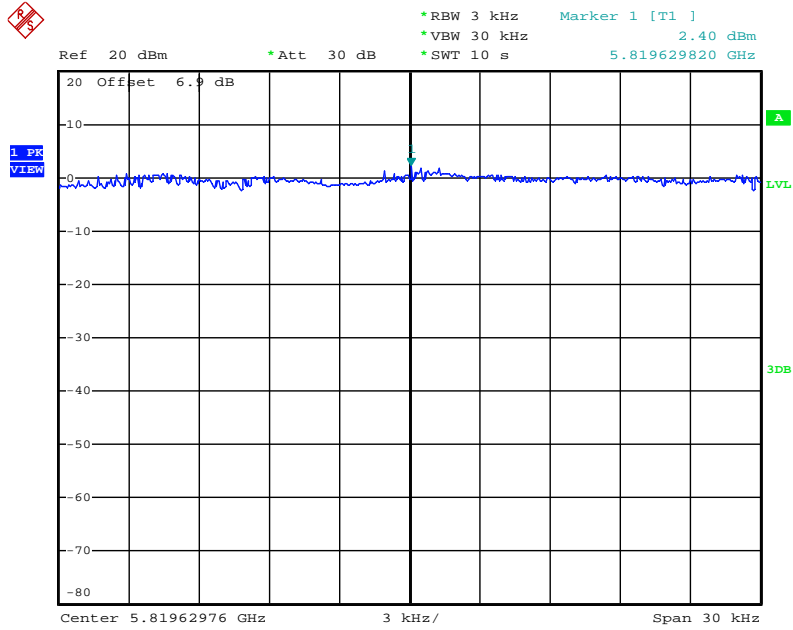
Date: 13.AUG.2010 01:29:31

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785 MHz



Date: 13.AUG.2010 01:31:26

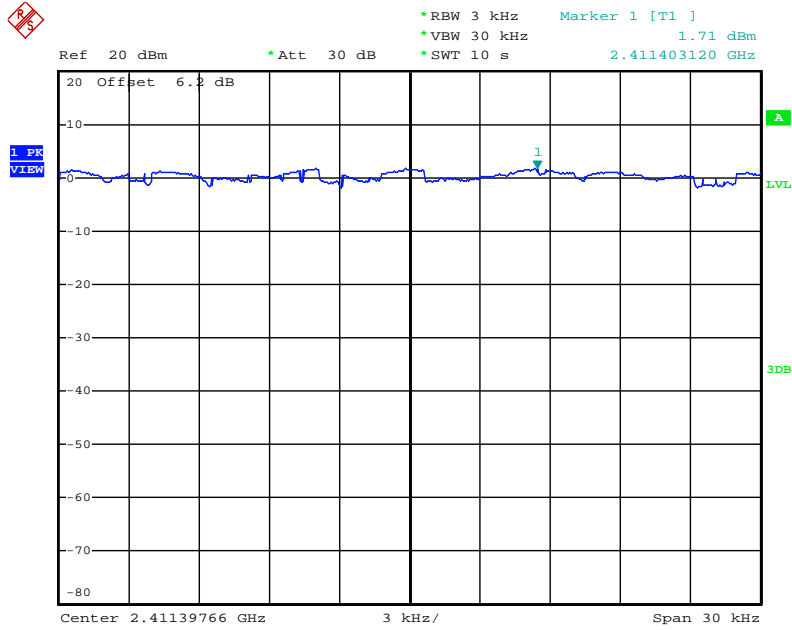
Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 13.AUG.2010 01:33:18

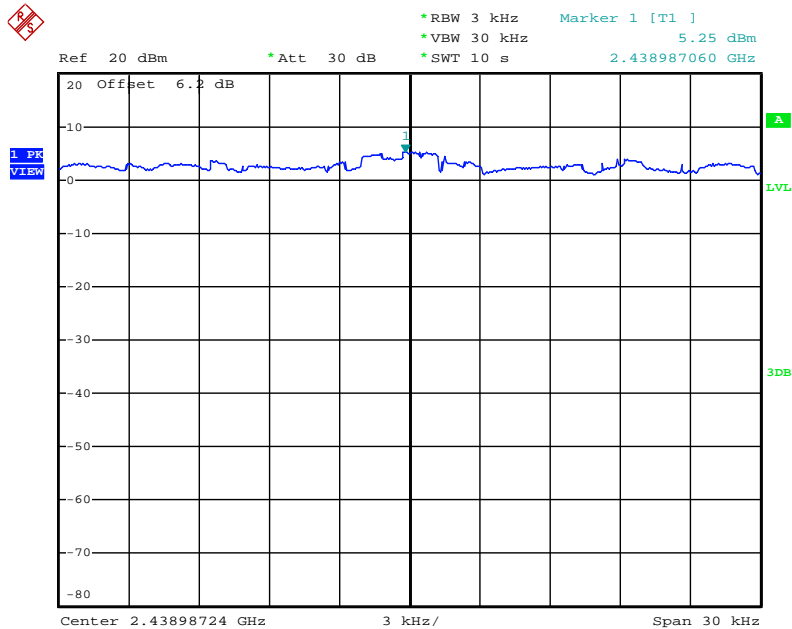
<For Mode 7 (Ant. 7)>:

Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



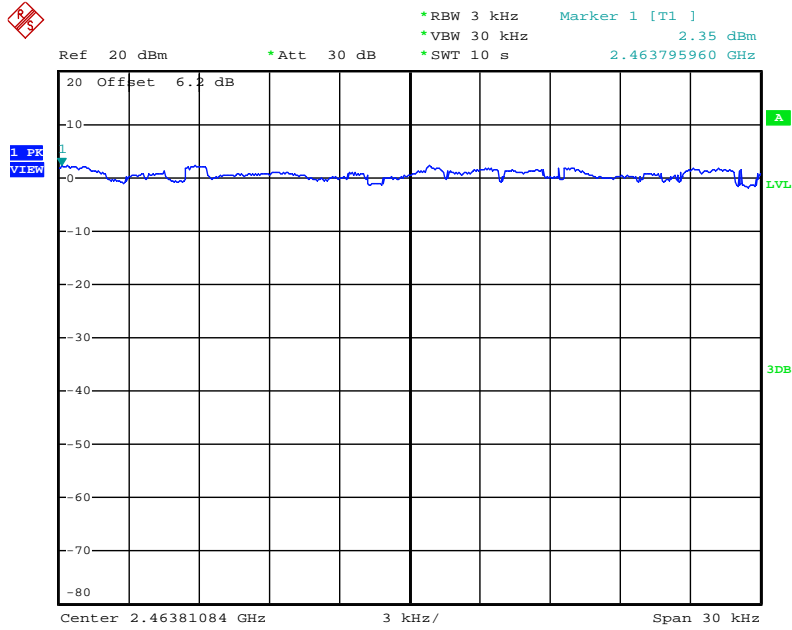
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



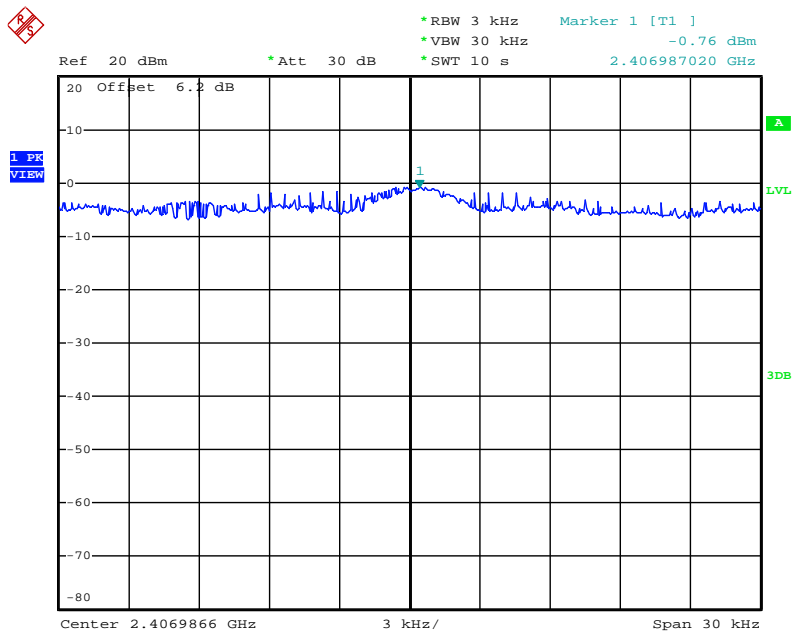
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Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



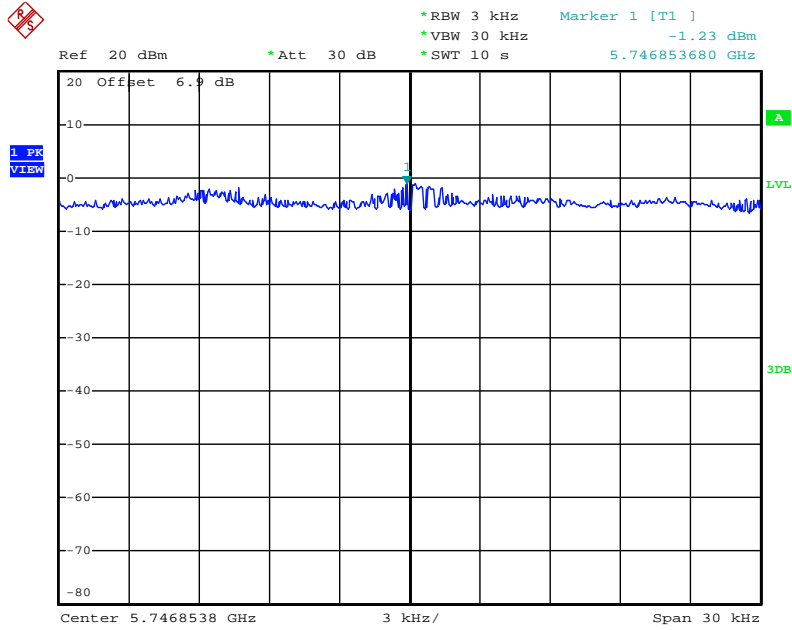
Date: 2.SEP.2010 18:07:45

Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



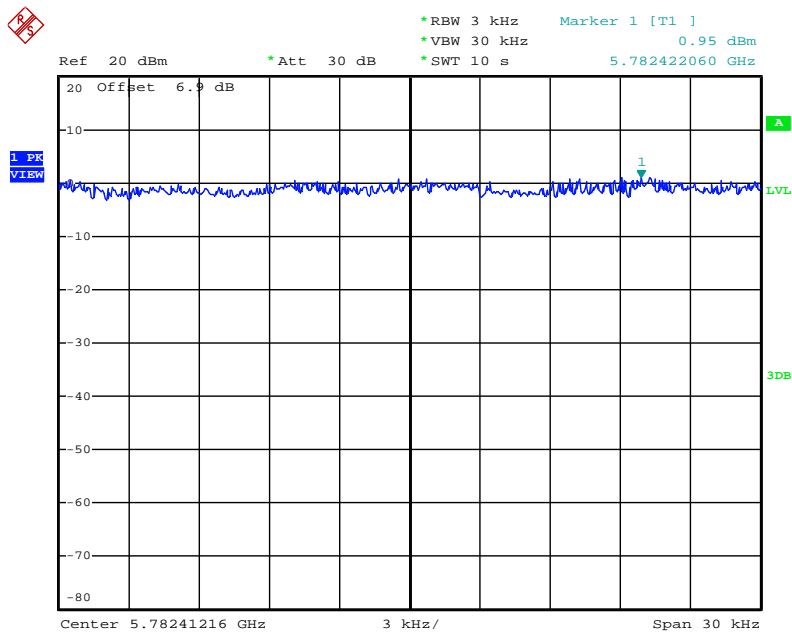
Date: 2.SEP.2010 18:10:46

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



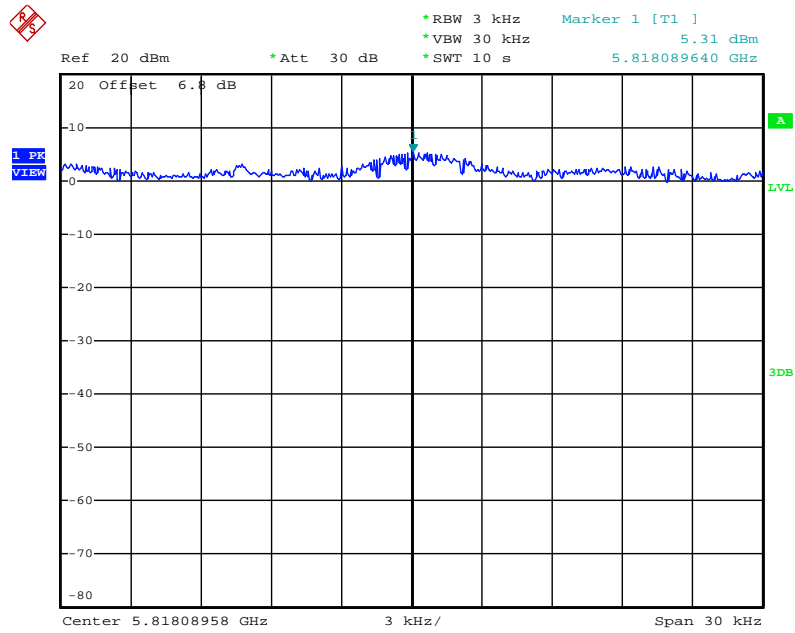
Date: 2.SEP.2010 18:32:04

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785 MHz



Date: 2.SEP.2010 18:34:16

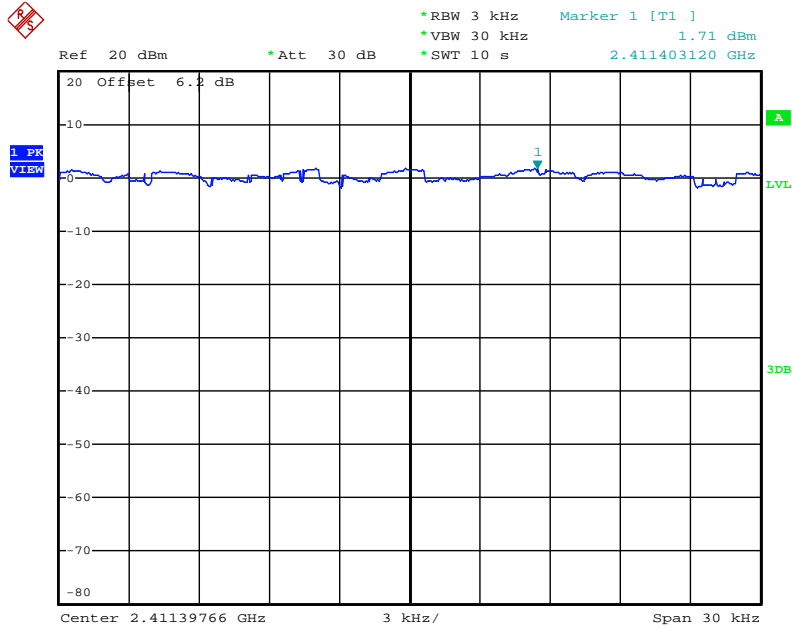
Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 12.AUG.2010 23:06:11

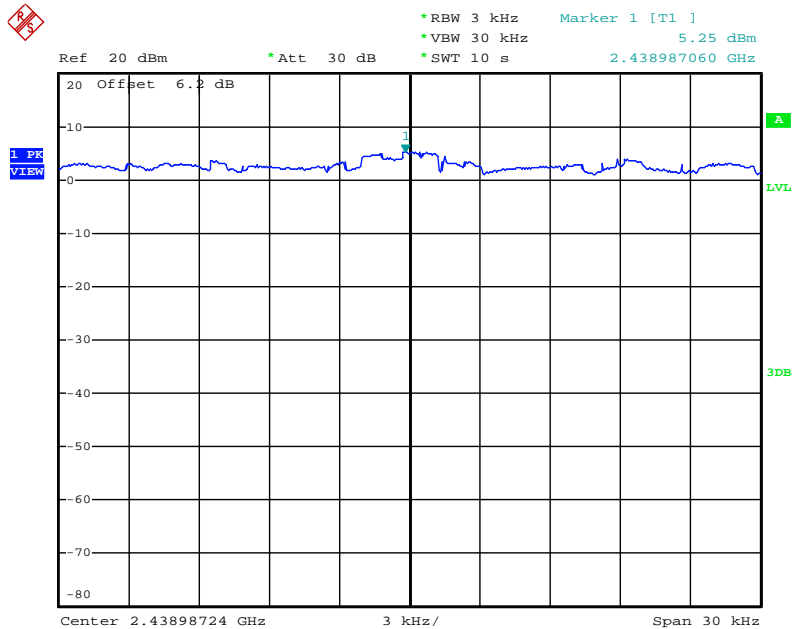
<For Mode 8 (Ant. 8)>:

Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



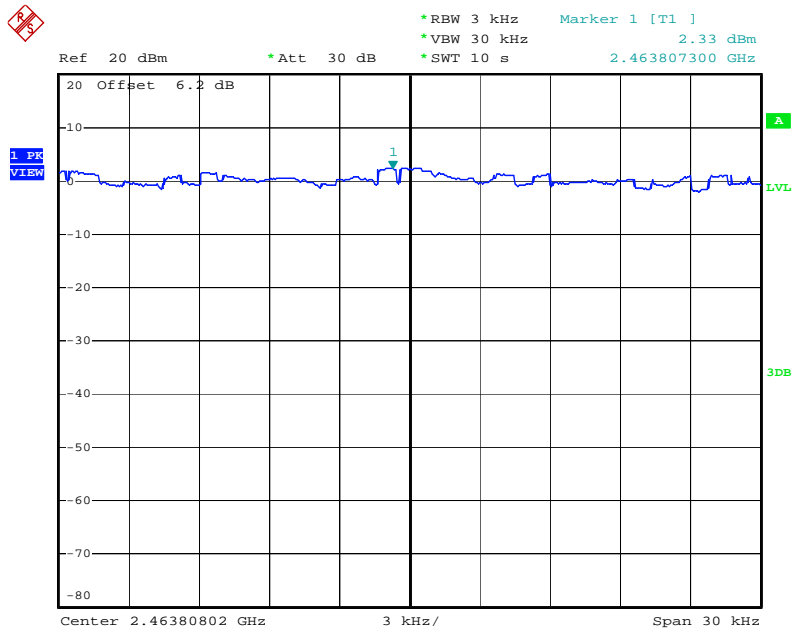
Date: 2.SEP.2010 18:02:49

Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



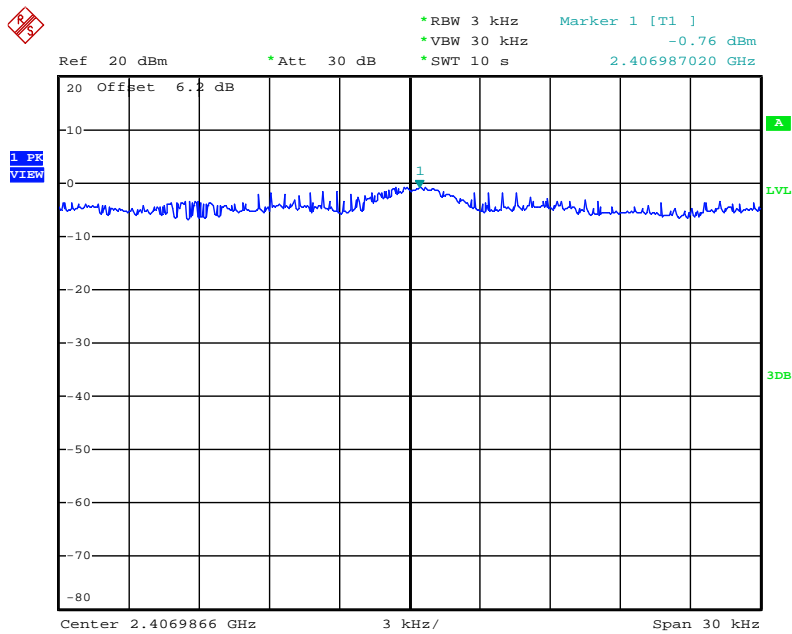
Date: 2.SEP.2010 18:05:10

Power Density Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



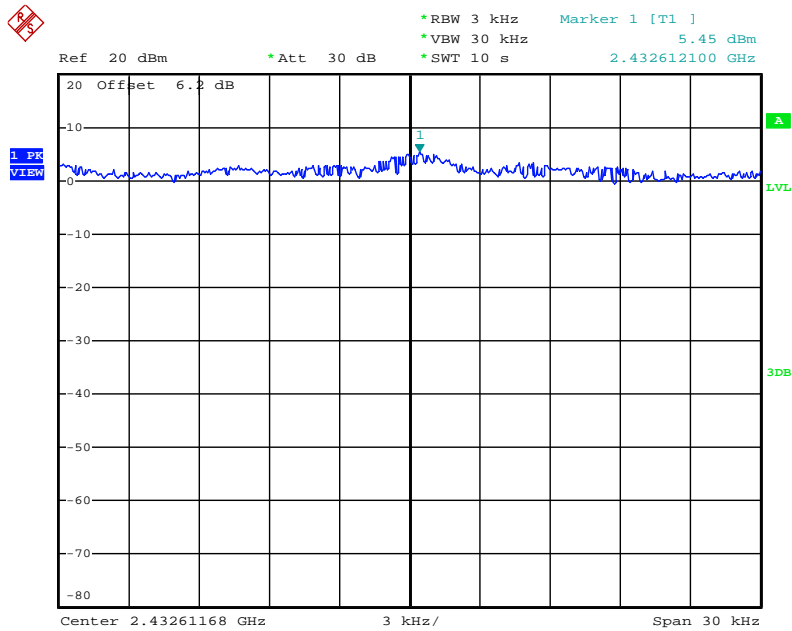
Date: 28.JAN.2011 17:41:27

Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



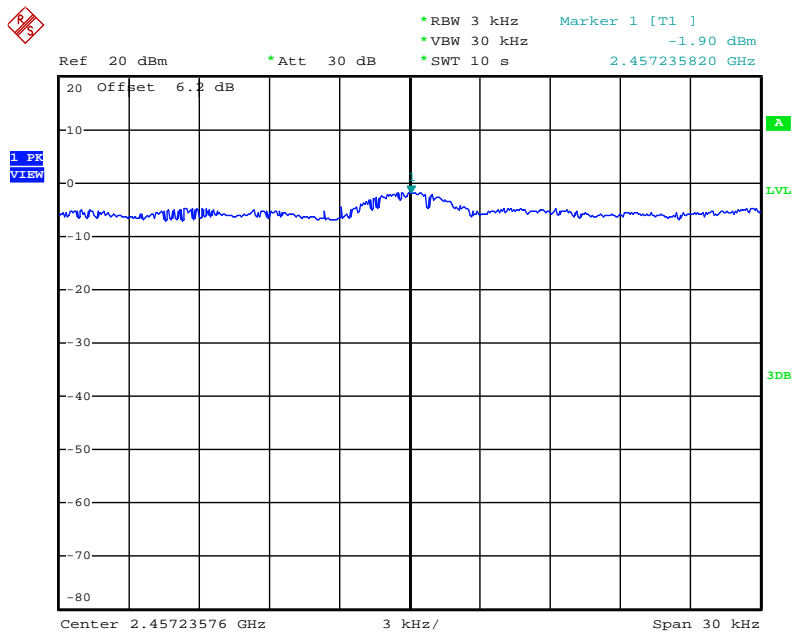
Date: 2.SEP.2010 18:10:46

Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



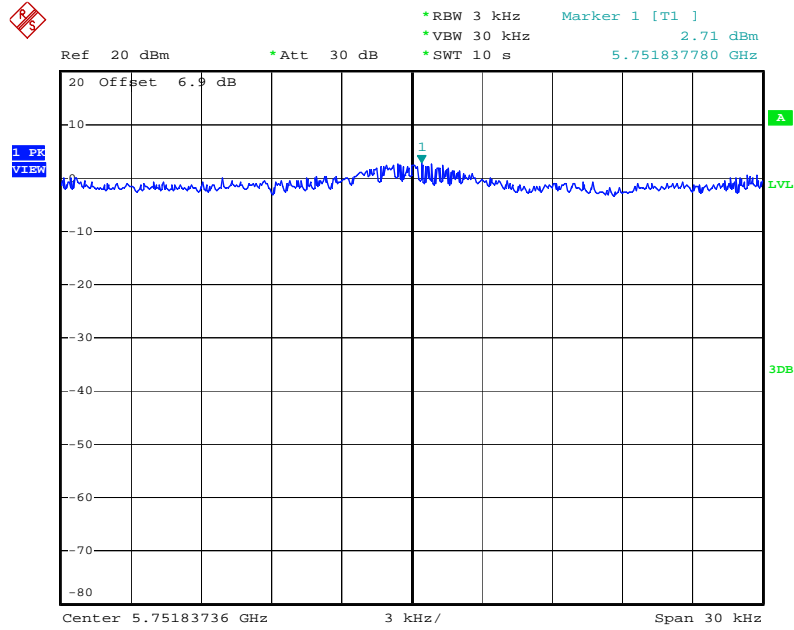
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Power Density Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



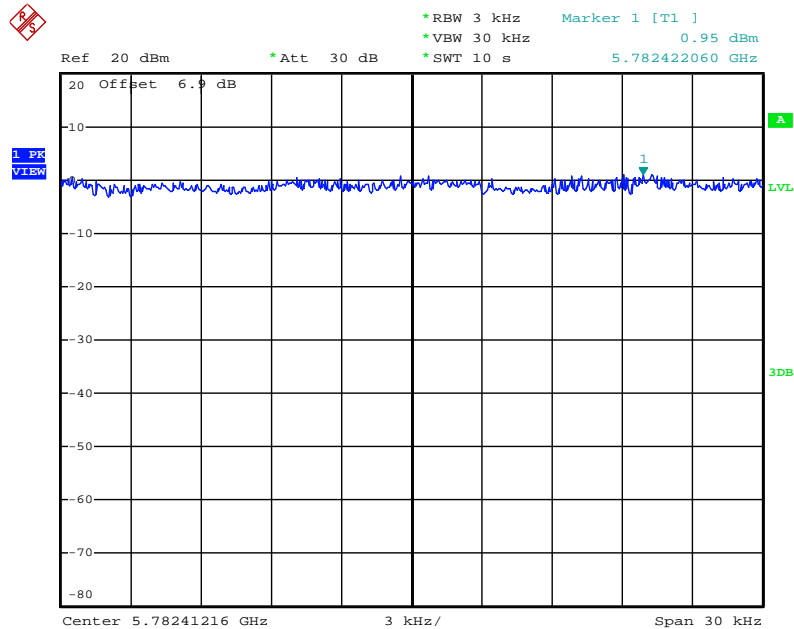
Date: 12.AUG.2010 02:53:15

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



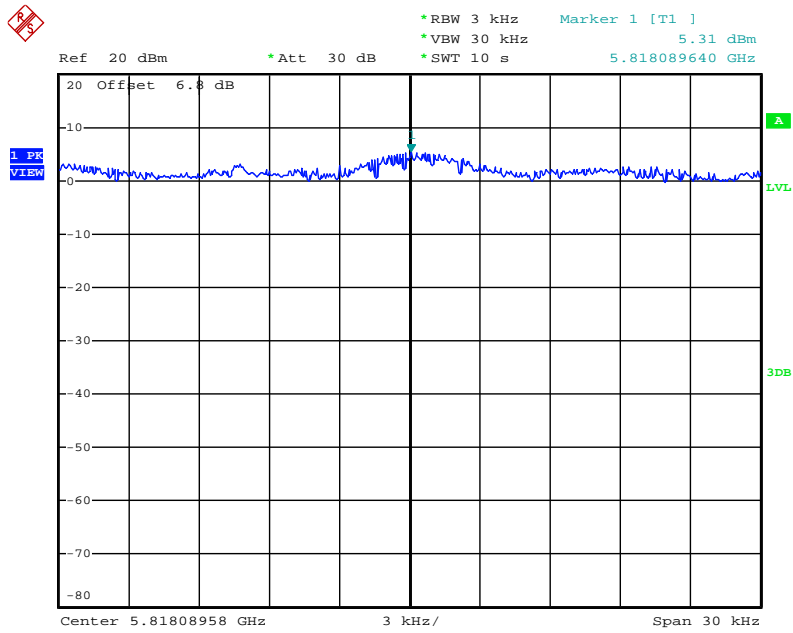
Date: 28.JAN.2011 18:21:07

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785 MHz



Date: 2.SEP.2010 18:34:16

Power Density Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 12.AUG.2010 23:06:11

4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.4.2. Measuring Instruments and Setting

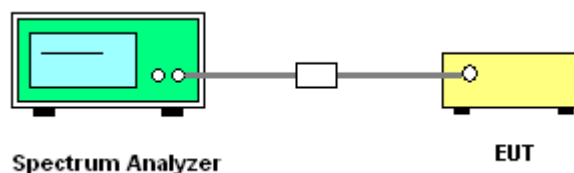
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters		Setting	
Attenuation	Auto		
Span Frequency	> 6dB Bandwidth		
RB	100 kHz		
VB	100 kHz		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Auto		
Cable Loss		Combiner Loss	
2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band
0.8	1.5	5.15	5.38

4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.
4. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

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 6dB Spectrum Bandwidth

<For Mode 1 (Ant. 1)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 1 (Ant. 1)

Configuration IEEE 802.11an MCS8 20MHz J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.28	17.72	500	Complies
157	5785 MHz	15.04	17.40	500	Complies
165	5825 MHz	15.08	17.48	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.76	36.40	500	Complies
159	5795 MHz	35.12	36.16	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 1 (Ant. 1)

Configuration IEEE 802.11a J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.48	16.40	500	Complies
157	5785 MHz	15.68	16.44	500	Complies
165	5825 MHz	15.72	16.40	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 2 (Ant. 2)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 2 (Ant. 2)

Configuration IEEE 802.11an MCS8 20MHz J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	14.72	17.84	500	Complies
157	5785 MHz	15.12	17.76	500	Complies
165	5825 MHz	15.20	17.88	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	36.32	36.40	500	Complies
159	5795 MHz	35.12	36.32	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 2 (Ant. 2)

Configuration IEEE 802.11a J2+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.32	17.48	500	Complies
157	5785 MHz	15.68	17.48	500	Complies
165	5825 MHz	14.44	17.20	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 3 (Ant. 3)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 3 (Ant. 3)

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.04	17.72	500	Complies
6	2437 MHz	15.88	17.64	500	Complies
11	2462 MHz	16.96	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.84	36.08	500	Complies
6	2437 MHz	35.68	36.16	500	Complies
9	2452 MHz	34.72	35.76	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 3 (Ant. 3)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.04	14.48	500	Complies
6	2437 MHz	11.36	15.12	500	Complies
11	2462 MHz	4.00	14.64	500	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	13.20	15.48	500	Complies
6	2437 MHz	13.52	16.44	500	Complies
11	2462 MHz	11.32	16.48	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Mode 4 (Ant. 4) >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 4 (Ant. 4)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.92	17.68	500	Complies
6	2437 MHz	12.56	17.32	500	Complies
11	2462 MHz	15.48	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.76	36.08	500	Complies
6	2437 MHz	34.72	36.32	500	Complies
9	2452 MHz	34.56	36.24	500	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.60	18.16	500	Complies
157	5785 MHz	15.72	17.60	500	Complies
165	5825 MHz	15.68	17.56	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.64	36.40	500	Complies
159	5795 MHz	36.40	36.56	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Mode 4 (Ant. 4)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.52	14.52	500	Complies
6	2437 MHz	12.60	15.08	500	Complies
11	2462 MHz	11.04	15.28	500	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	10.76	16.48	500	Complies
6	2437 MHz	12.56	16.48	500	Complies
11	2462 MHz	13.80	16.24	500	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	11.92	19.00	500	Complies
157	5785 MHz	15.68	17.04	500	Complies
165	5825 MHz	12.00	16.84	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 5 (Ant. 5)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 5 (Ant. 5)

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.56	17.68	500	Complies
6	2437 MHz	16.72	17.64	500	Complies
11	2462 MHz	16.32	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.40	36.40	500	Complies
6	2437 MHz	35.84	36.24	500	Complies
9	2452 MHz	33.68	35.76	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11b/g / Mode 5 (Ant. 5)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.60	15.60	500	Complies
6	2437 MHz	4.04	14.40	500	Complies
11	2462 MHz	8.08	15.64	500	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.12	16.52	500	Complies
6	2437 MHz	11.36	16.76	500	Complies
11	2462 MHz	16.04	16.48	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

<For Mode 6 (Ant. 6)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 6 (Ant. 6)

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	13.84	17.68	500	Complies
157	5785 MHz	12.60	17.24	500	Complies
165	5825 MHz	15.96	17.36	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	34.56	36.00	500	Complies
159	5795 MHz	34.48	35.84	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Mode 6 (Ant. 6)

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.44	16.56	500	Complies
157	5785 MHz	12.60	16.48	500	Complies
165	5825 MHz	12.56	15.84	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Mode 7 (Ant. 7)>:

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Mode 7 (Ant. 7)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	15.36	17.68	500	Complies
6	2437 MHz	13.92	17.64	500	Complies
11	2462 MHz	16.32	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.76	36.08	500	Complies
6	2437 MHz	35.20	36.24	500	Complies
9	2452 MHz	34.56	36.24	500	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.56	17.68	500	Complies
157	5785 MHz	14.52	17.80	500	Complies
165	5825 MHz	15.68	17.56	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	32.64	35.52	500	Complies
159	5795 MHz	36.40	36.56	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Mode 7 (Ant. 7)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.08	14.56	500	Complies
6	2437 MHz	4.56	15.36	500	Complies
11	2462 MHz	4.04	15.16	500	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.92	15.96	500	Complies
6	2437 MHz	13.20	16.40	500	Complies
11	2462 MHz	13.80	16.24	500	Complies

Configuration IEEE 802.11a J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.96	16.52	500	Complies
157	5785 MHz	15.68	17.04	500	Complies
165	5825 MHz	12.00	16.84	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Mode 8 (Ant. 8)>:

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11n / Mode 8 (Ant. 8)

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	15.68	17.72	500	Complies
6	2437 MHz	15.08	17.68	500	Complies
11	2462 MHz	15.68	17.72	500	Complies

Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.52	36.32	500	Complies
6	2437 MHz	35.20	36.24	500	Complies
9	2452 MHz	34.56	36.24	500	Complies

For 5GHz Band

Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	12.60	18.16	500	Complies
157	5785 MHz	14.52	17.80	500	Complies
165	5825 MHz	13.16	18.16	500	Complies

Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.40	500	Complies
159	5795 MHz	36.40	36.56	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Jacky Ho	Configurations	IEEE 802.11a/b/g / Mode 8 (Ant. 8)

Configuration IEEE 802.11b J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.08	14.56	500	Complies
6	2437 MHz	4.56	15.36	500	Complies
11	2462 MHz	3.60	15.20	500	Complies

Configuration IEEE 802.11g J2+J3+J4

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.92	15.96	500	Complies
6	2437 MHz	13.20	16.40	500	Complies
11	2462 MHz	13.80	16.24	500	Complies

Configuration IEEE 802.11a J2+J3+J4

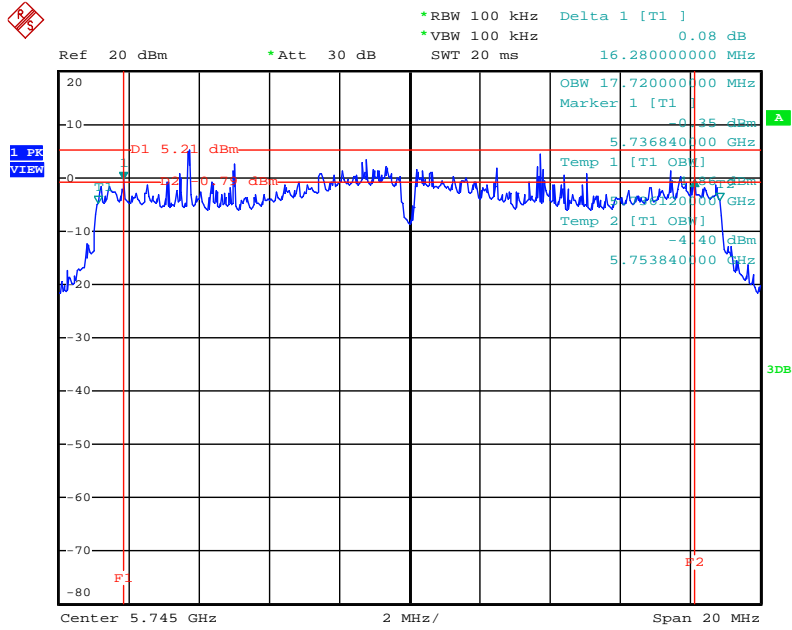
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	15.68	17.04	500	Complies
157	5785 MHz	15.68	17.04	500	Complies
165	5825 MHz	12.00	16.84	500	Complies

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

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

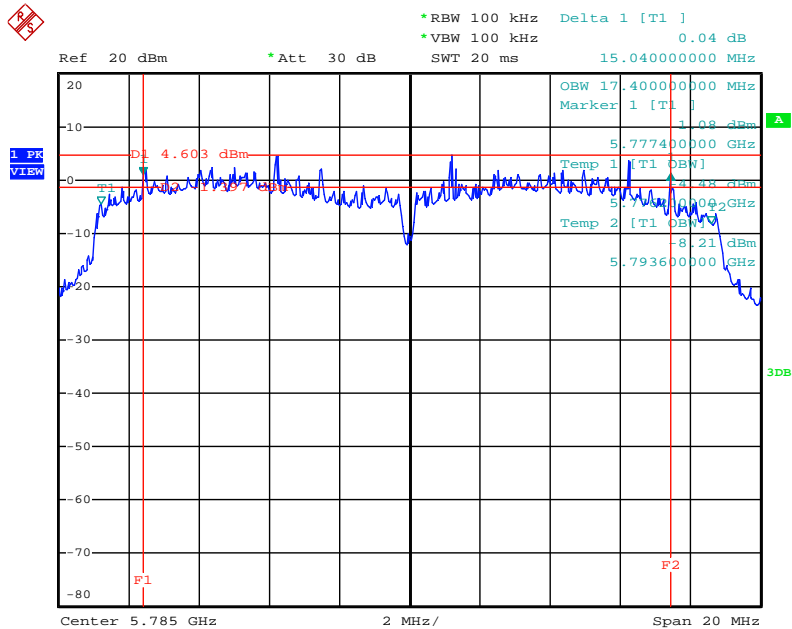
<For Mode 1 (Ant. 1)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5745 MHz



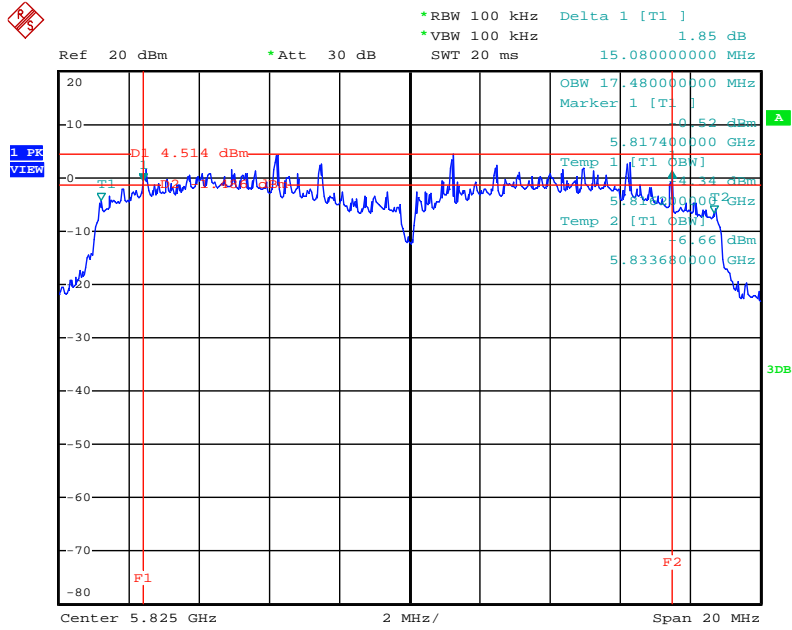
Date: 12.AUG.2010 15:53:47

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5785MHz



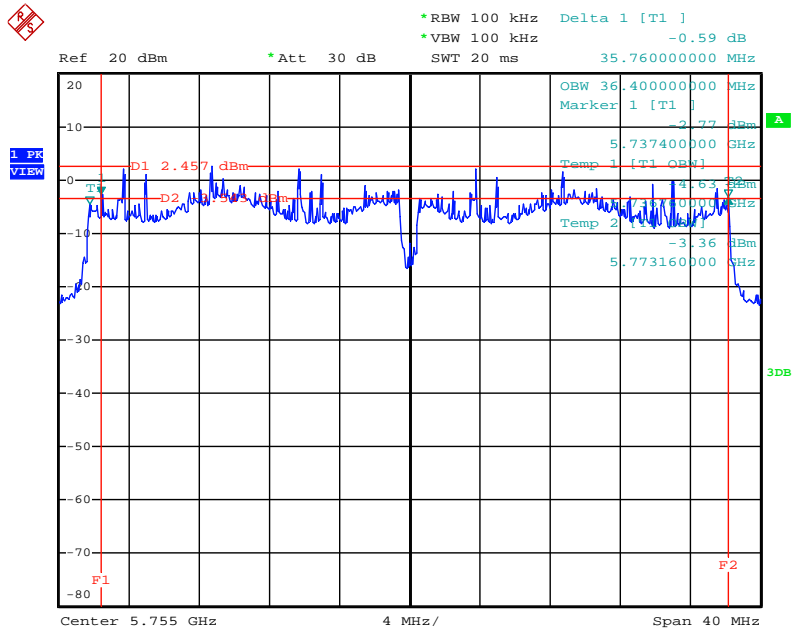
Date: 12.AUG.2010 15:51:22

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5825 MHz



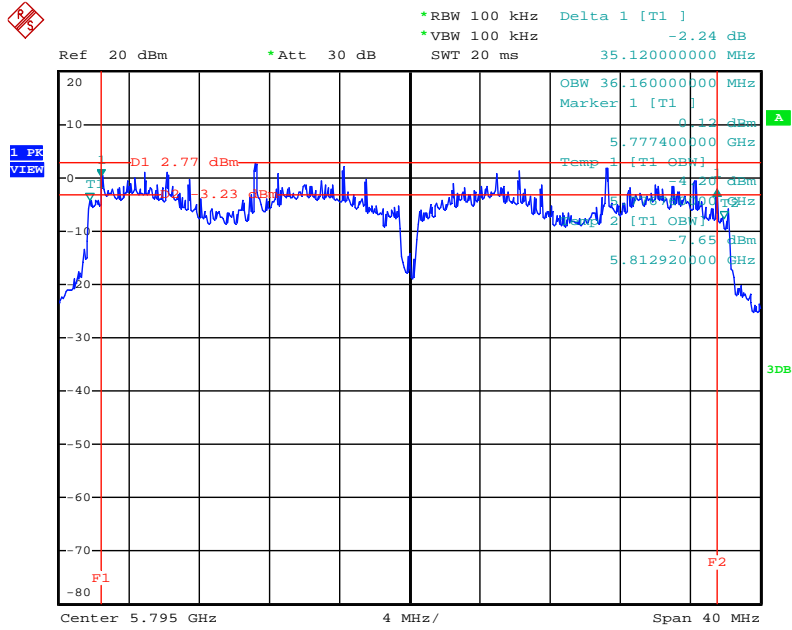
Date: 12.AUG.2010 15:49:27

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3 / 5755 MHz



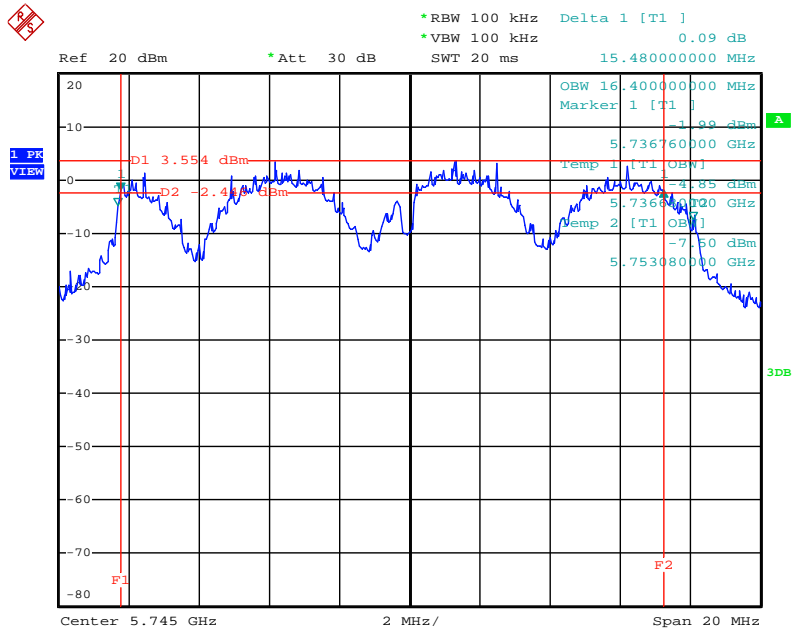
Date: 12.AUG.2010 15:56:11

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3 / 5795 MHz



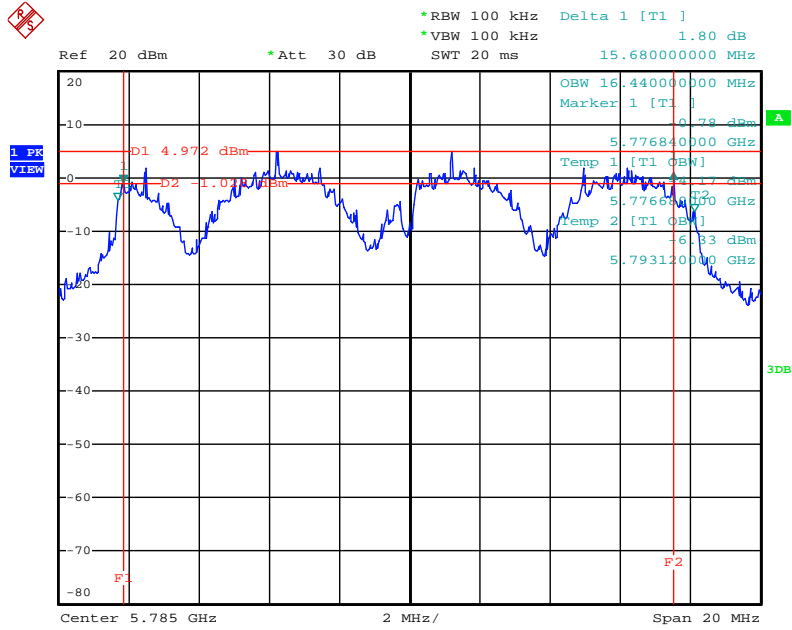
Date: 12.AUG.2010 15:58:03

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5745 MHz



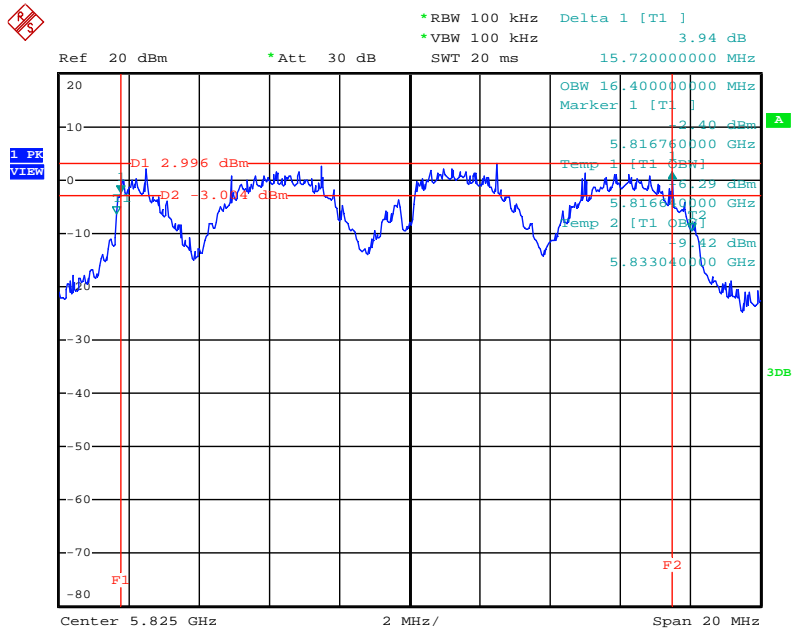
Date: 12.AUG.2010 15:43:40

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5785MHz



Date: 12.AUG.2010 15:45:36

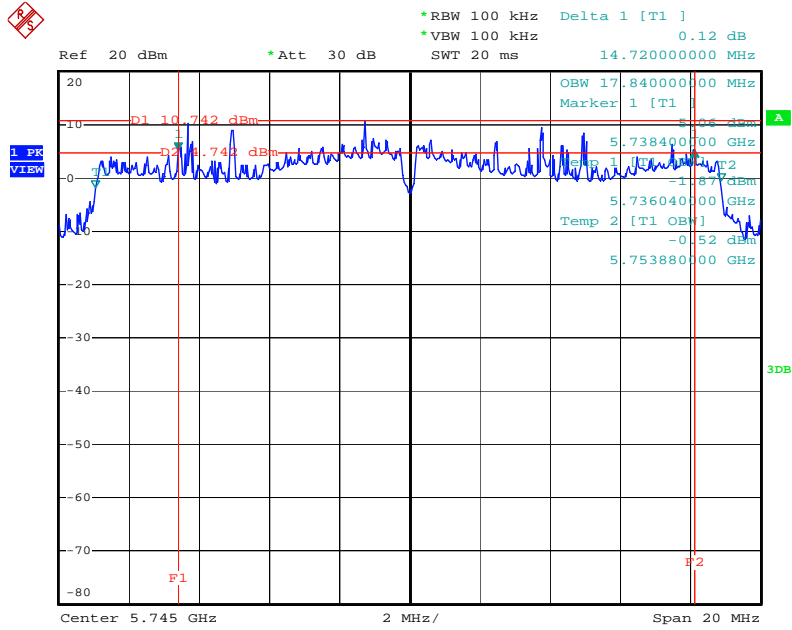
6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5825 MHz



Date: 12.AUG.2010 15:47:20

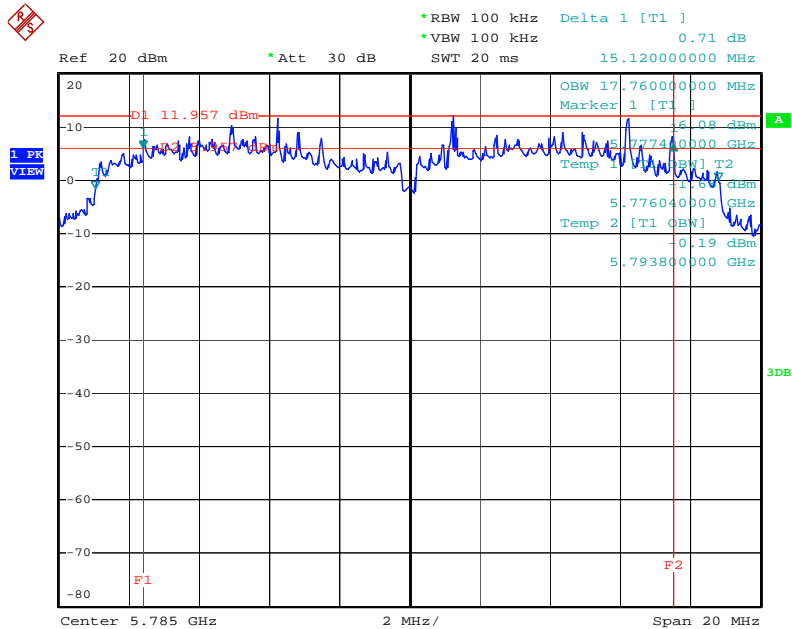
<For Mode 2 (Ant. 2)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5745 MHz



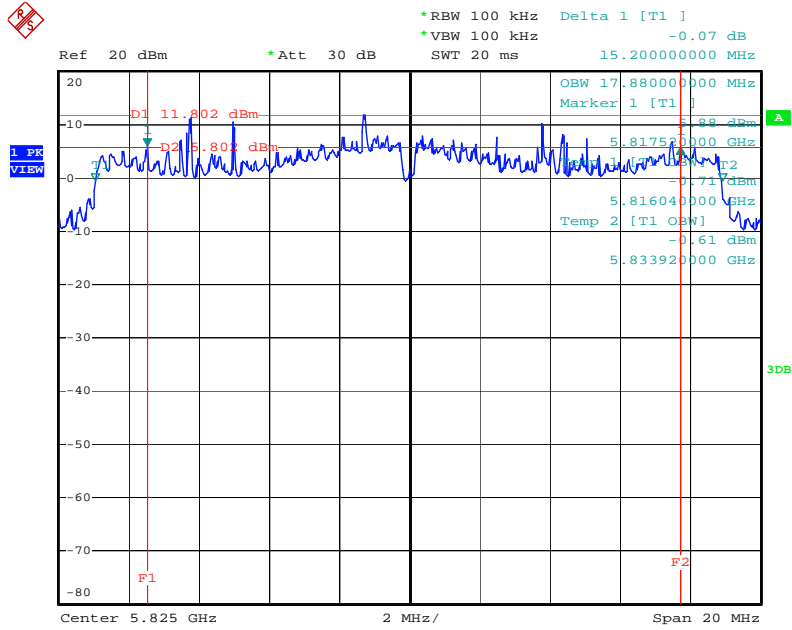
Date: 11.AUG.2010 19:35:37

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5785MHz



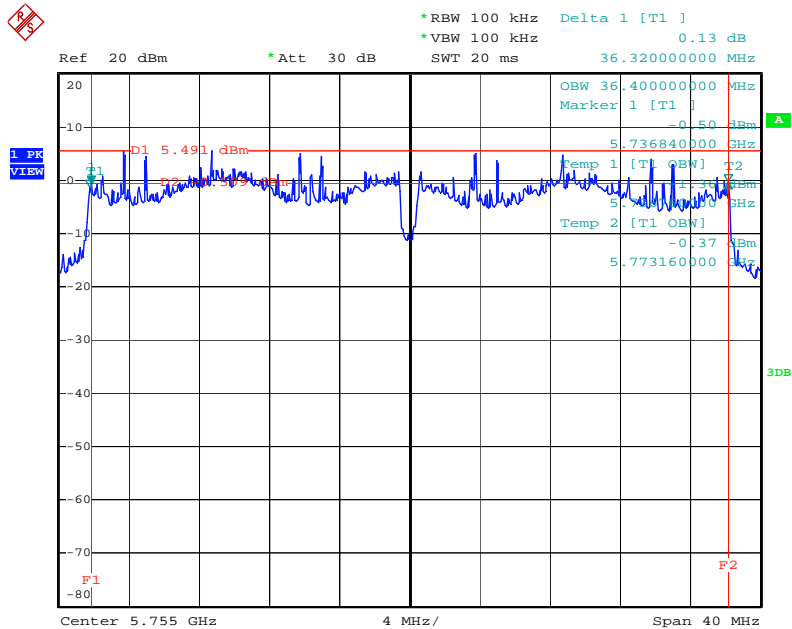
Date: 11.AUG.2010 19:38:39

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3 / 5825 MHz



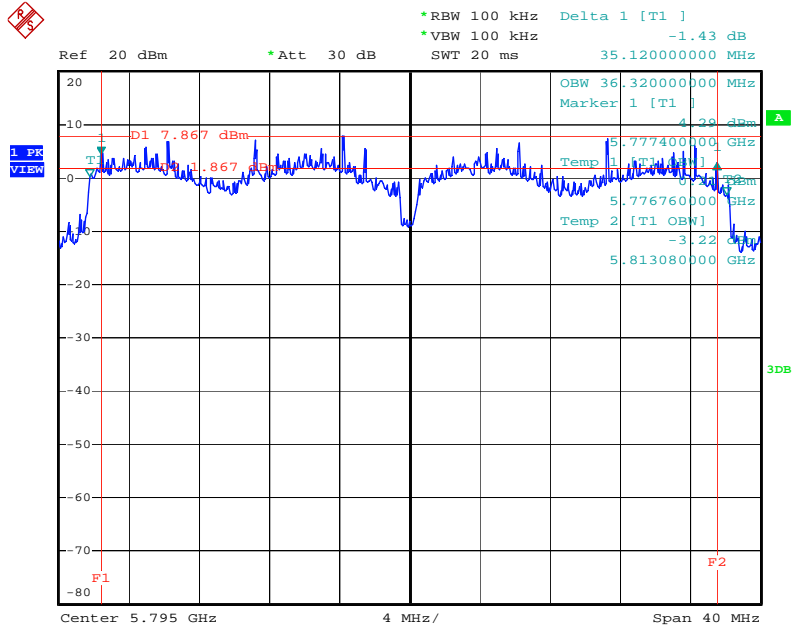
Date: 11.AUG.2010 19:40:42

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3 / 5755 MHz



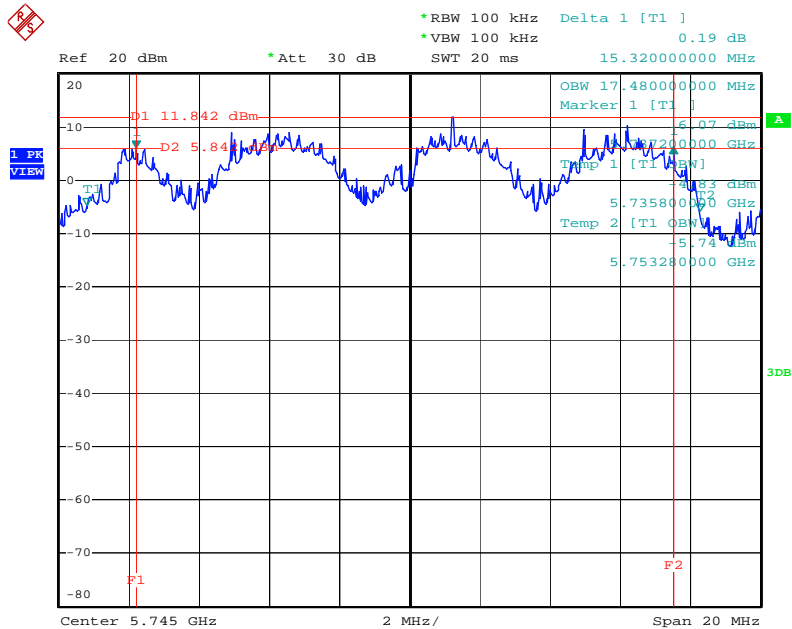
Date: 11.AUG.2010 19:10:30

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3 / 5795 MHz



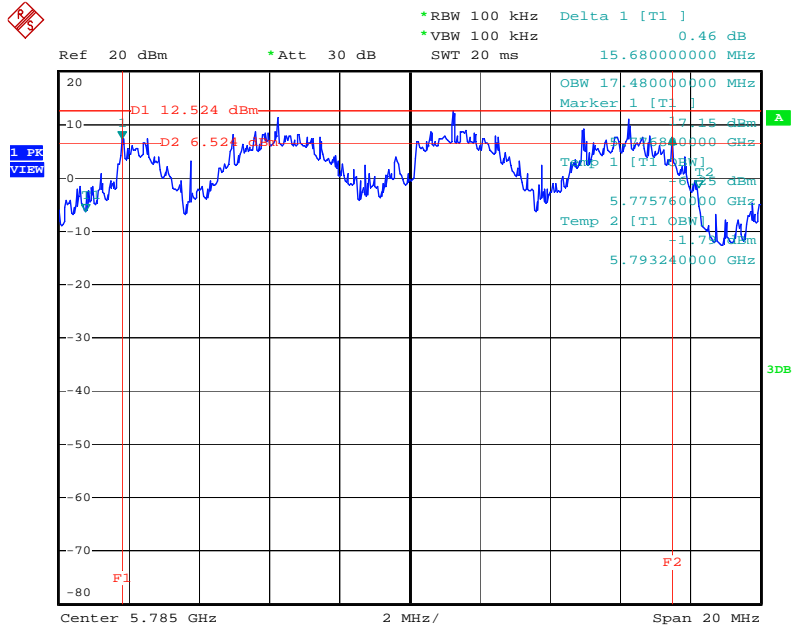
Date: 11.AUG.2010 19:17:42

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5745 MHz



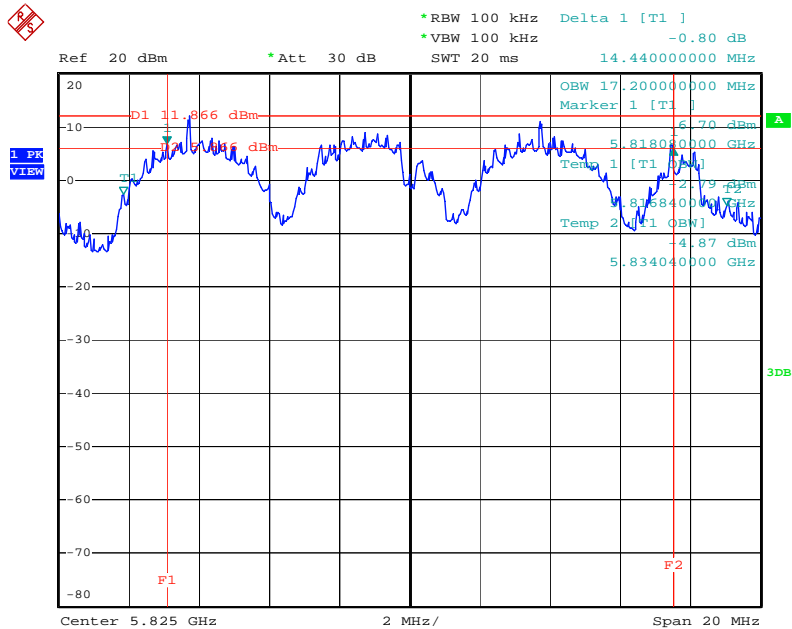
Date: 11.AUG.2010 19:50:54

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5785MHz



Date: 11.AUG.2010 19:48:01

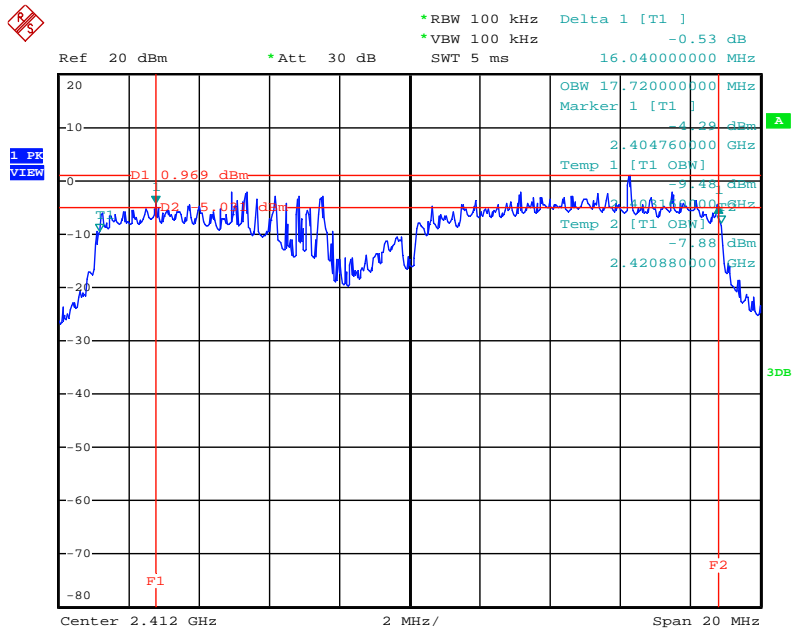
6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3 / 5825 MHz



Date: 11.AUG.2010 19:45:02

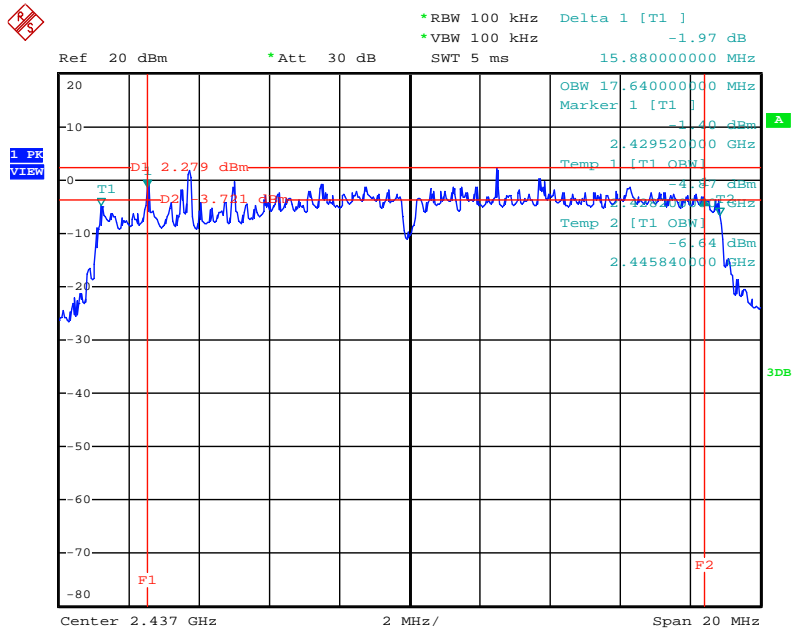
<For Mode 3 (Ant. 3)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



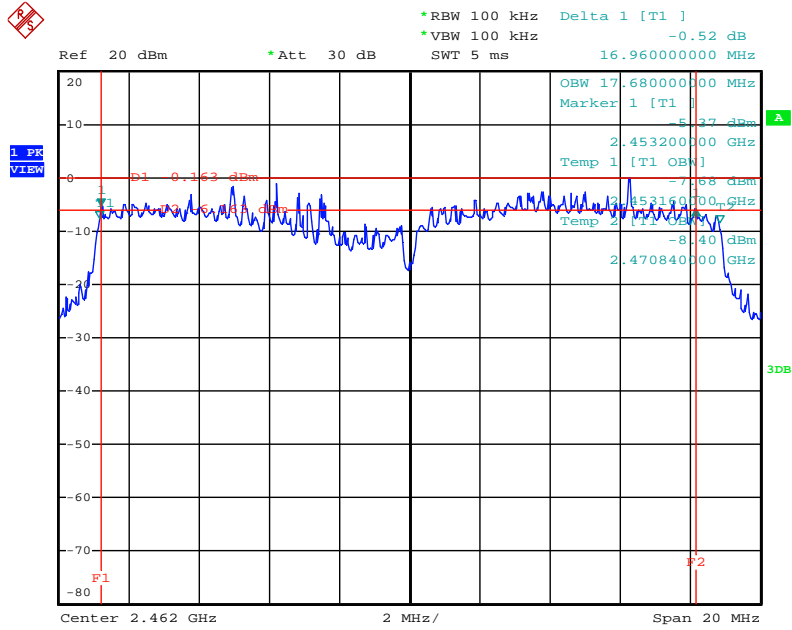
Date: 12.AUG.2010 02:27:35

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



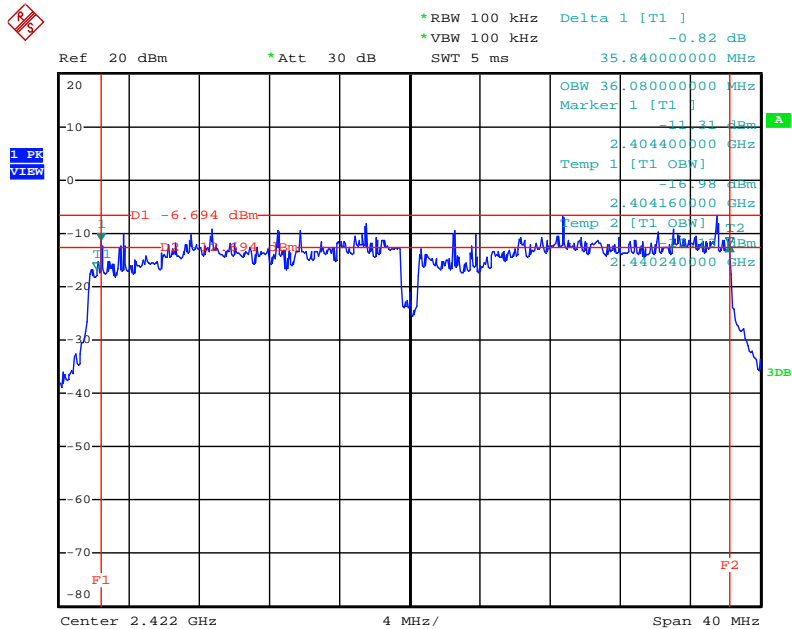
Date: 12.AUG.2010 02:25:31

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4/ 2462 MHz



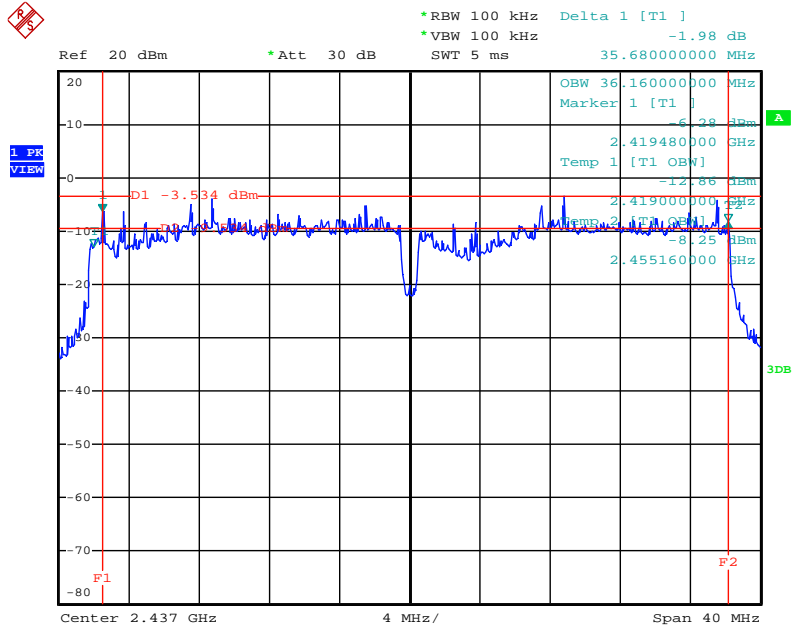
Date: 12.AUG.2010 02:23:18

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2422 MHz



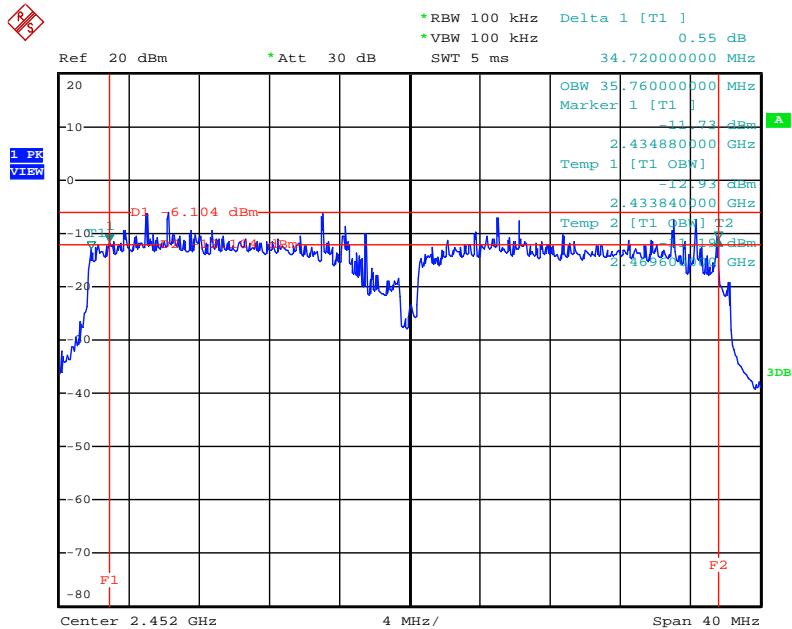
Date: 12.AUG.2010 02:16:28

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2437 MHz



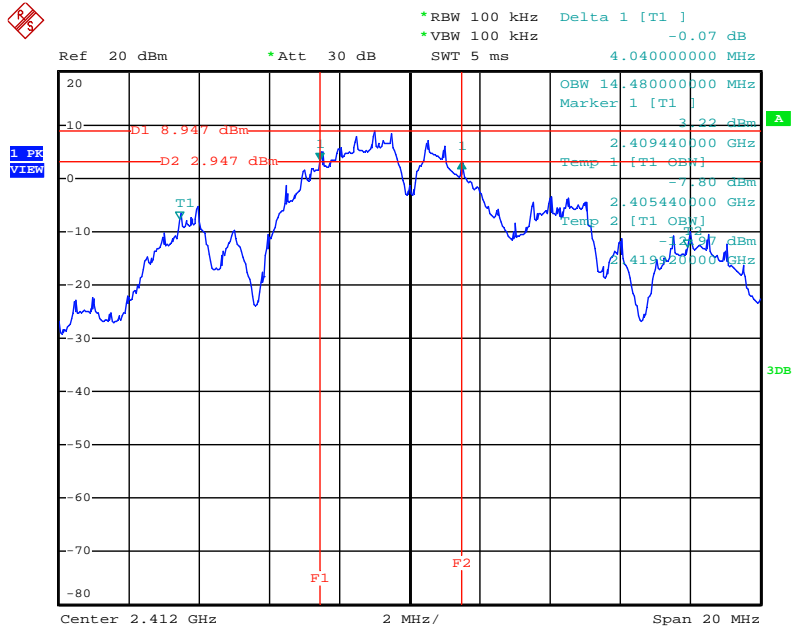
Date: 12.AUG.2010 02:18:28

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2452 MHz



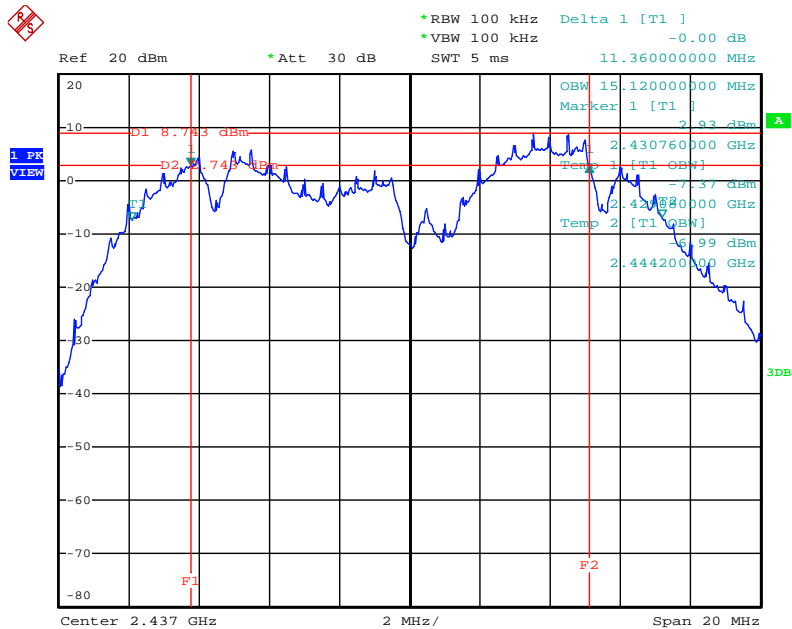
Date: 12.AUG.2010 02:20:31

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



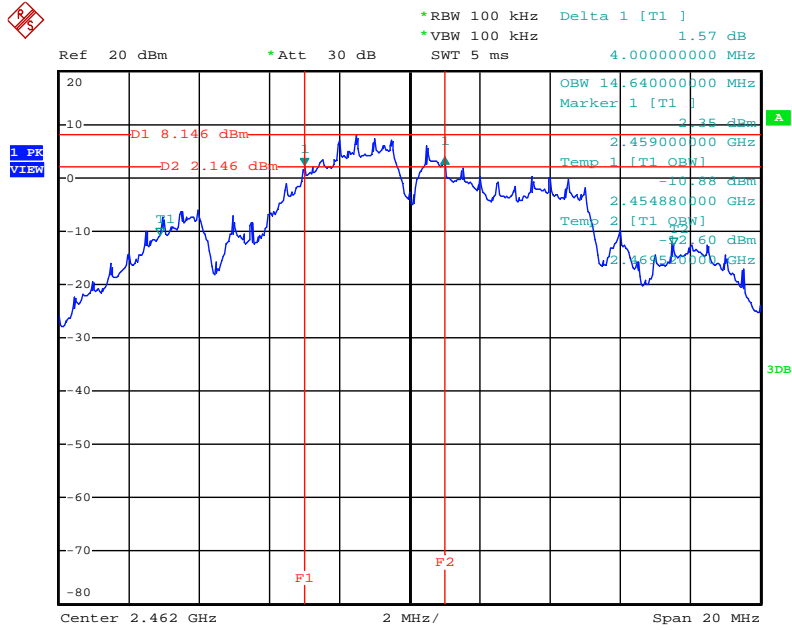
Date: 12.AUG.2010 02:29:54

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



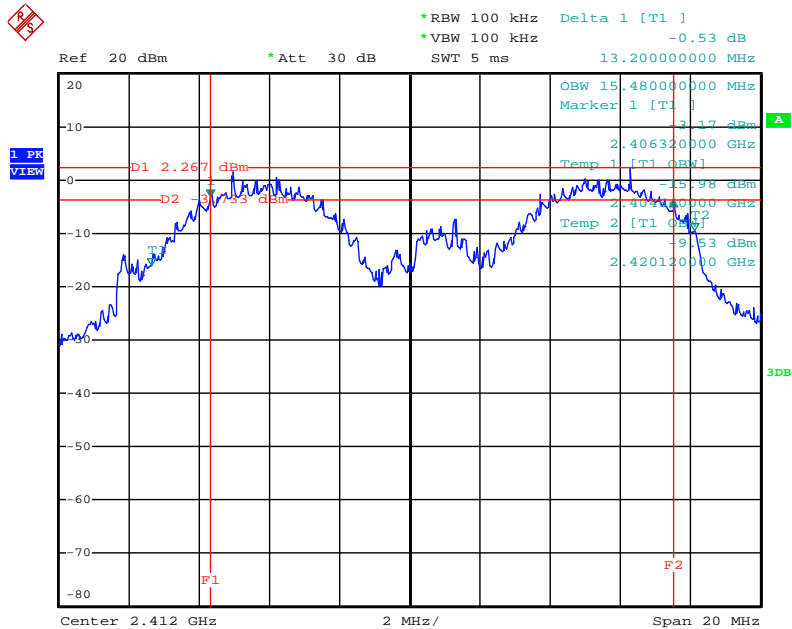
Date: 12.AUG.2010 02:31:57

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



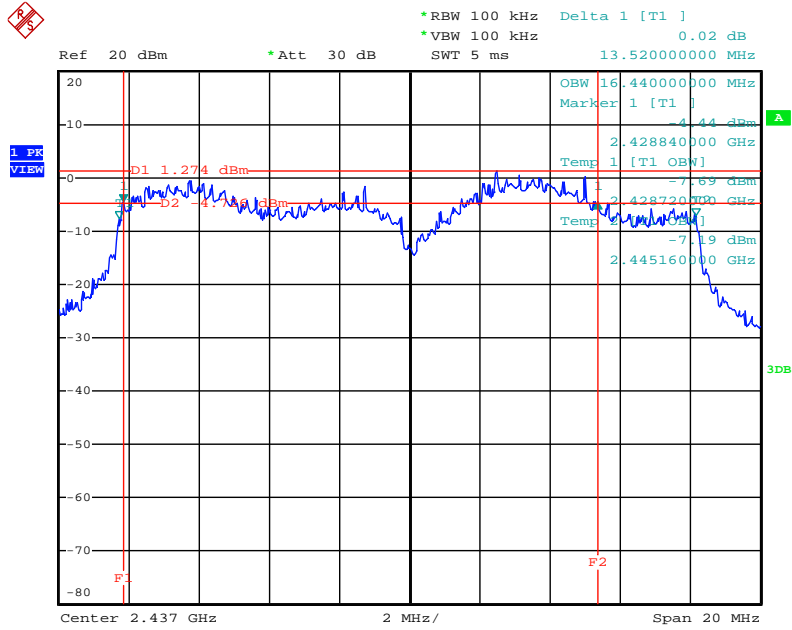
Date: 12.AUG.2010 02:34:00

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



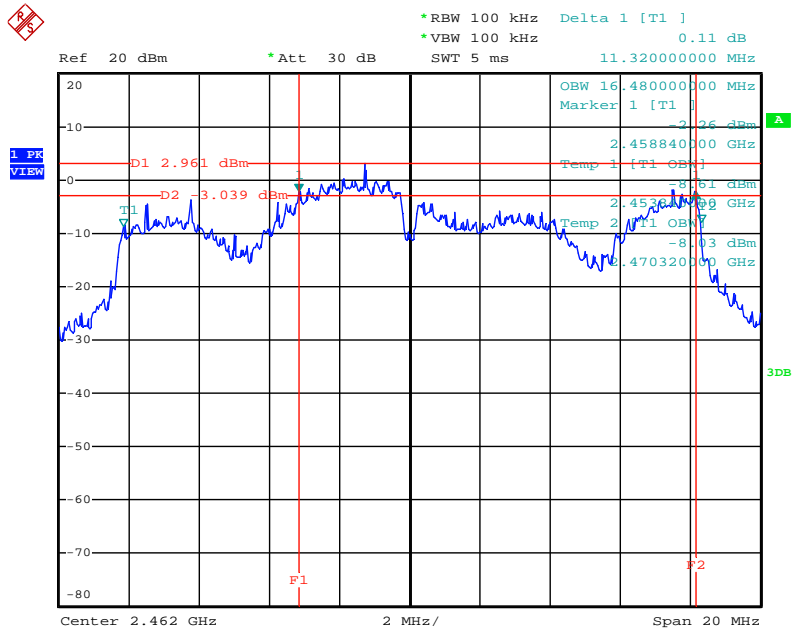
Date: 12.AUG.2010 02:40:16

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



Date: 12.AUG.2010 02:38:15

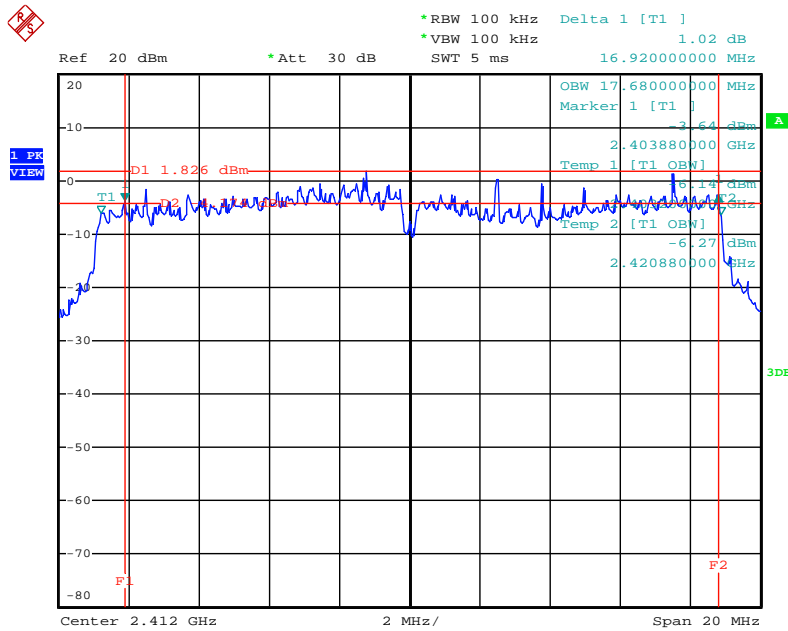
6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



Date: 12.AUG.2010 02:36:13

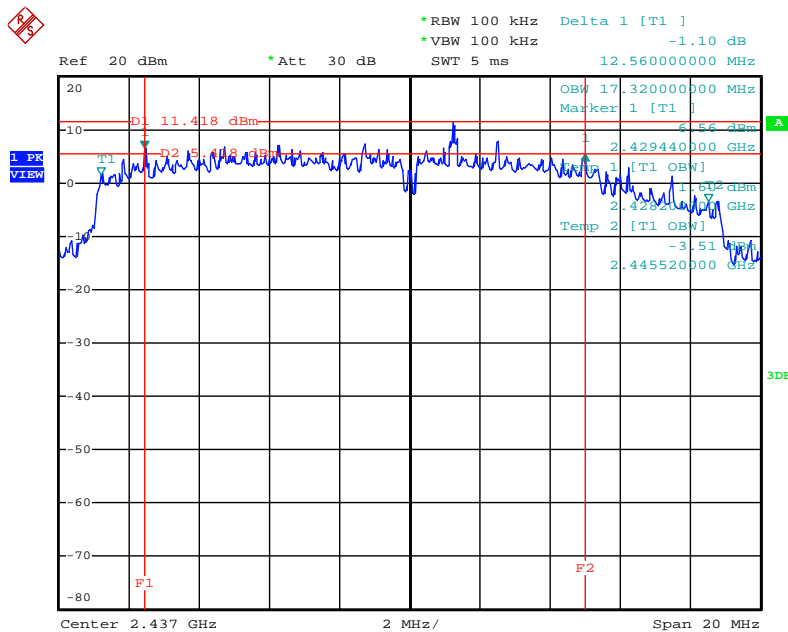
<For Mode 4 (Ant. 4)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



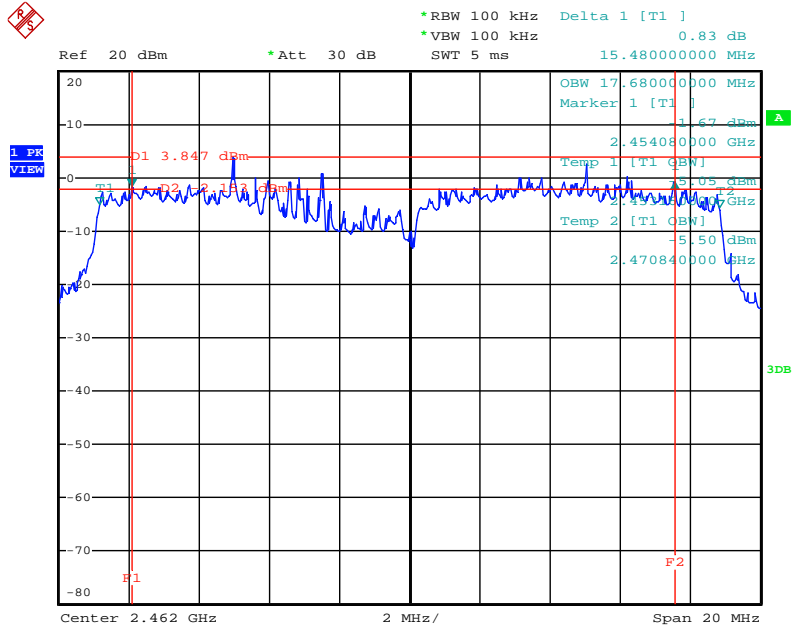
Date: 12.AUG.2010 03:01:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



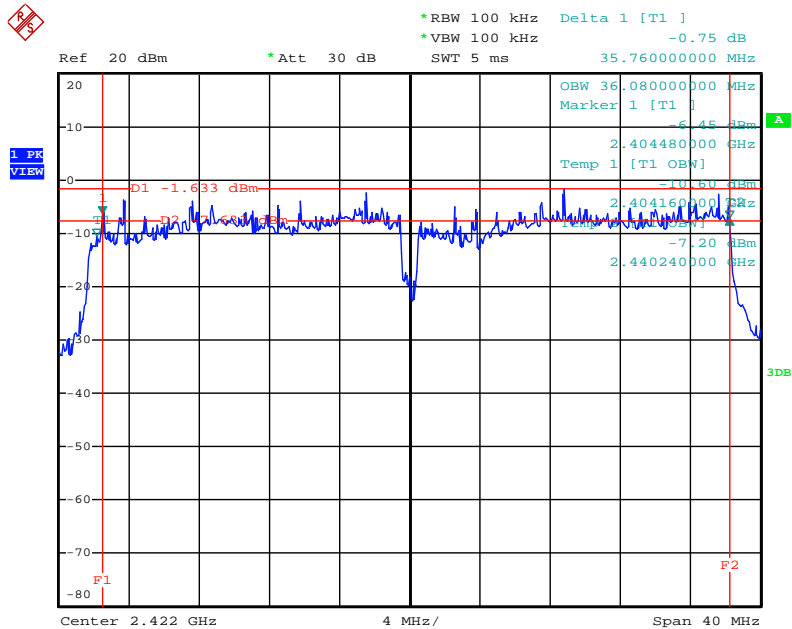
Date: 12.AUG.2010 03:03:06

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4/ 2462 MHz



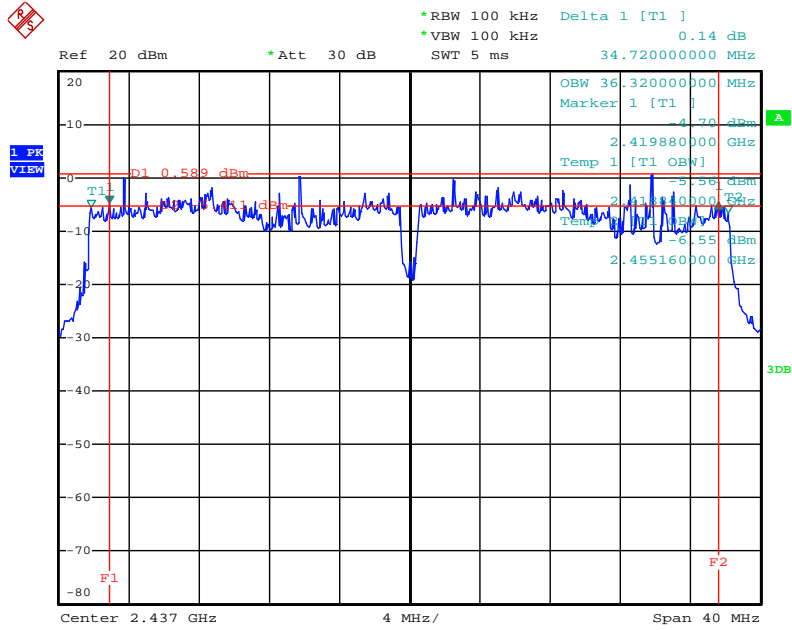
Date: 12.AUG.2010 03:05:04

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2422 MHz



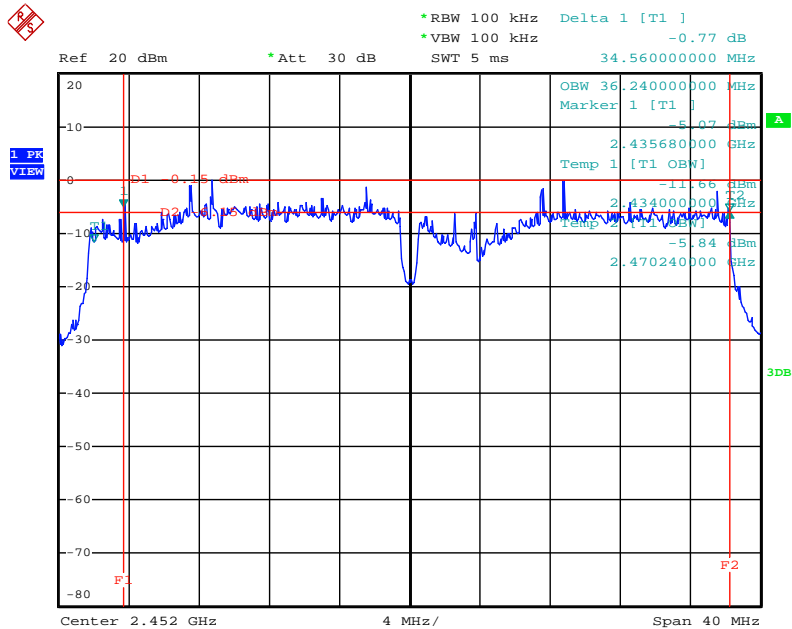
Date: 12.AUG.2010 03:11:25

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2437 MHz



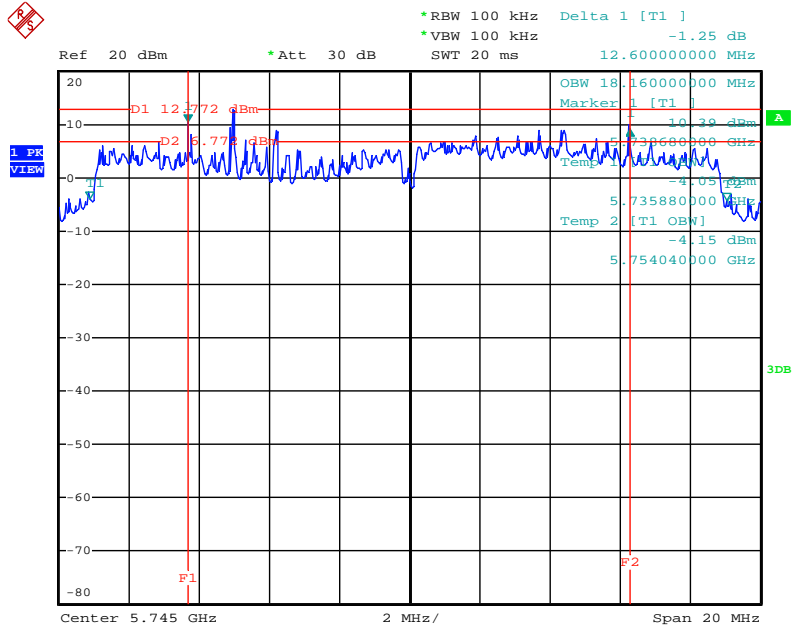
Date: 12.AUG.2010 03:09:23

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2452 MHz



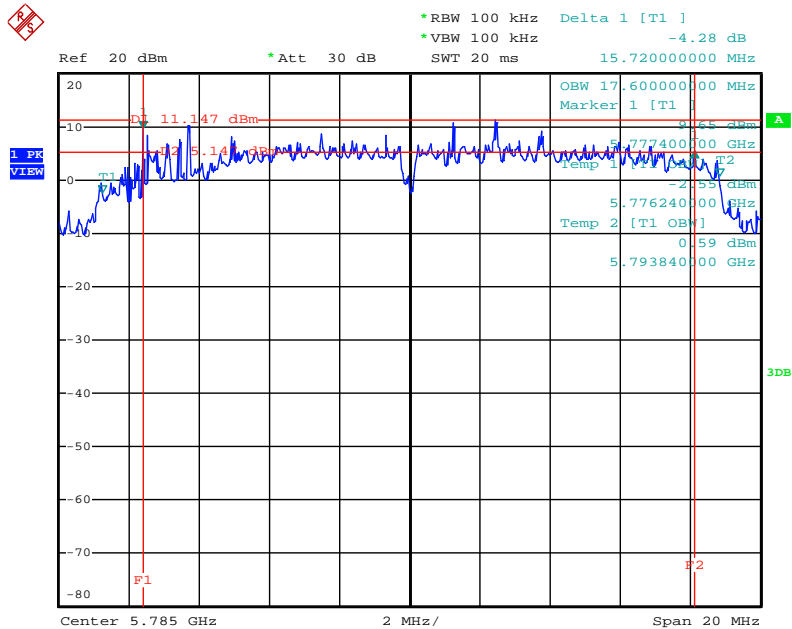
Date: 12.AUG.2010 03:07:21

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5745 MHz



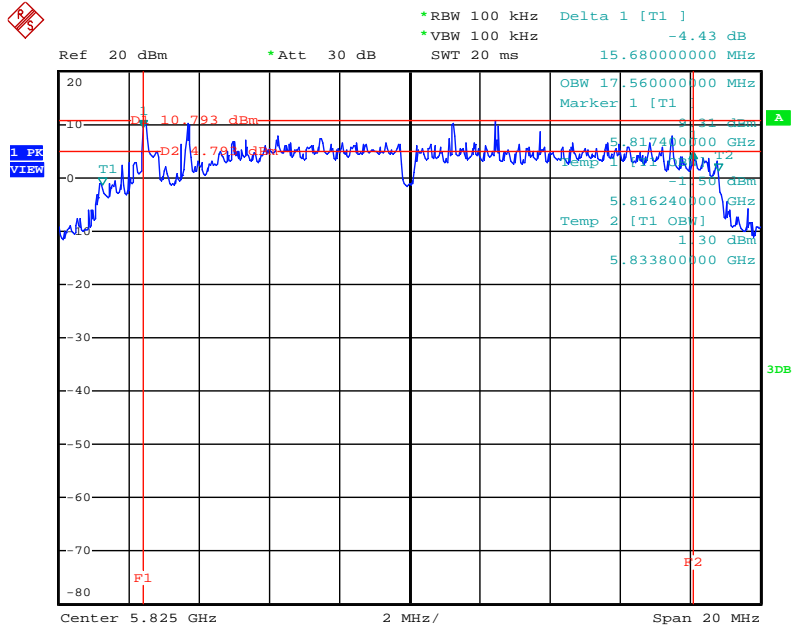
Date: 12.AUG.2010 23:14:27

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5785MHz



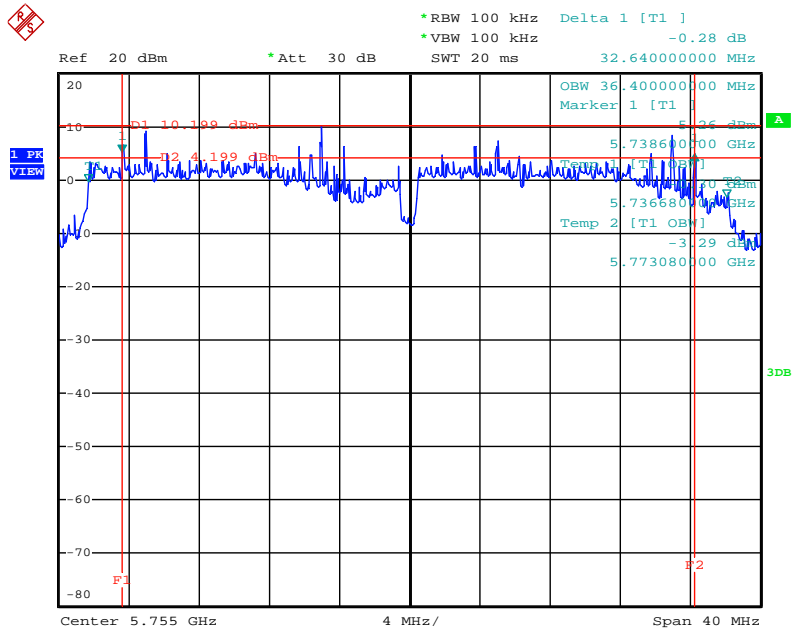
Date: 12.AUG.2010 23:12:27

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5825 MHz



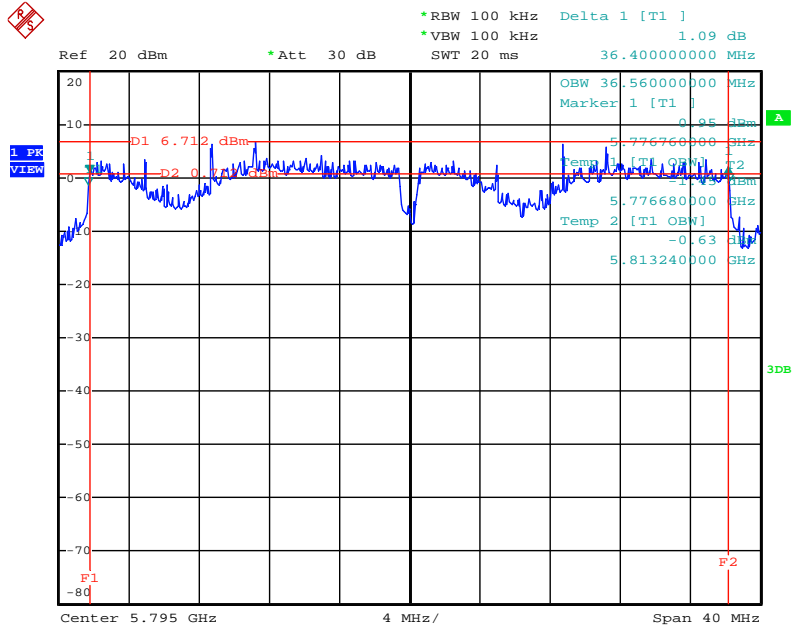
Date: 12.AUG.2010 23:10:27

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5755 MHz



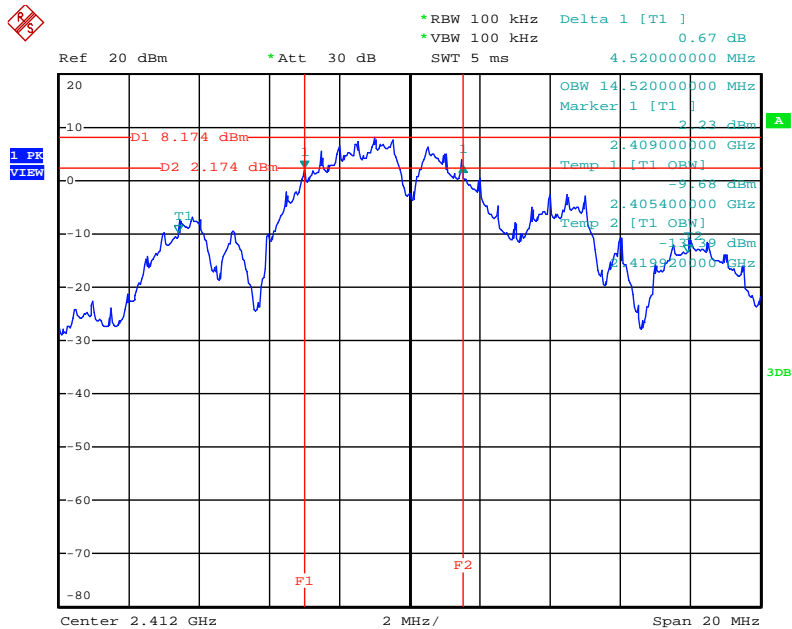
Date: 12.AUG.2010 23:16:55

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5795 MHz



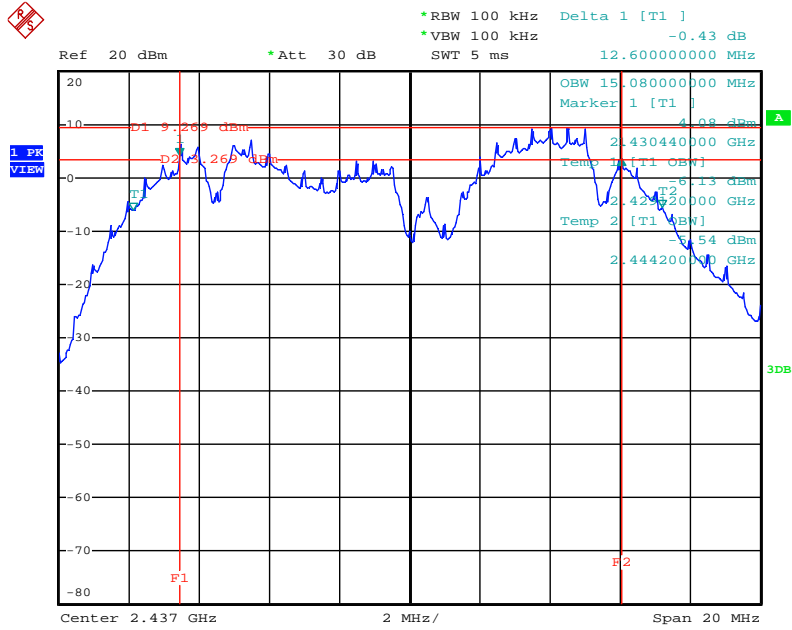
Date: 12.AUG.2010 23:19:35

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



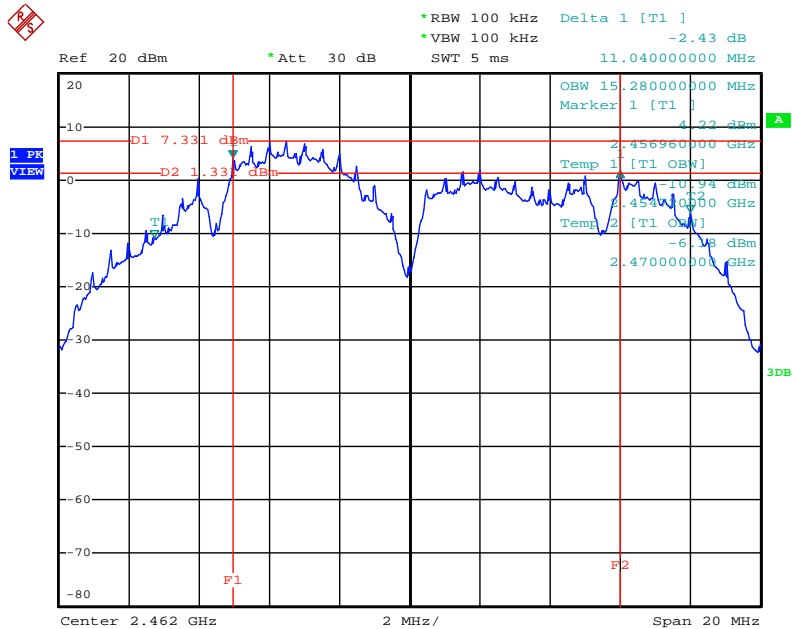
Date: 12.AUG.2010 02:58:41

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



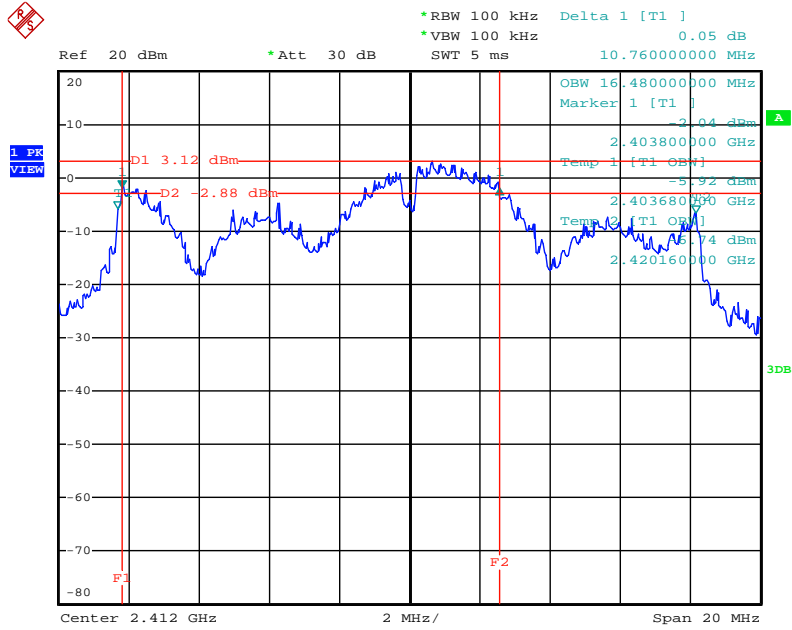
Date: 12.AUG.2010 02:56:17

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



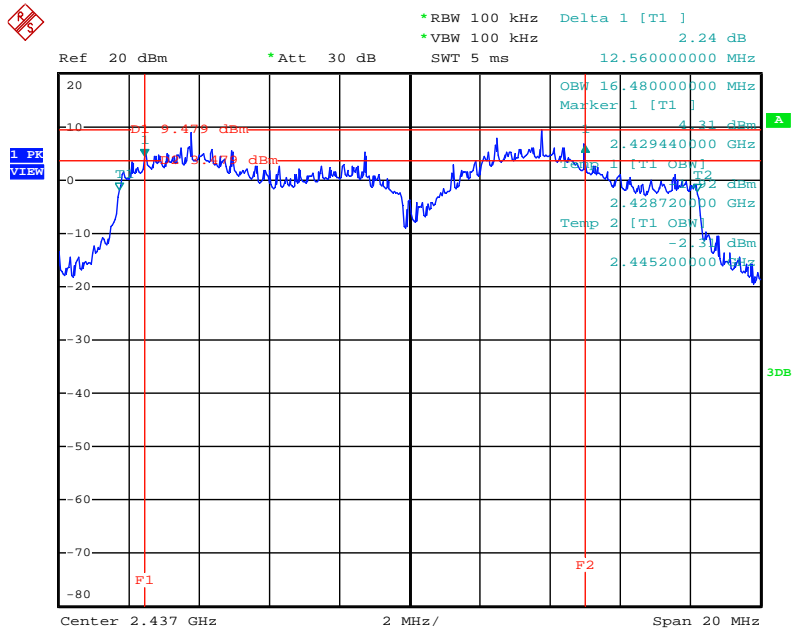
Date: 12.AUG.2010 02:53:55

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



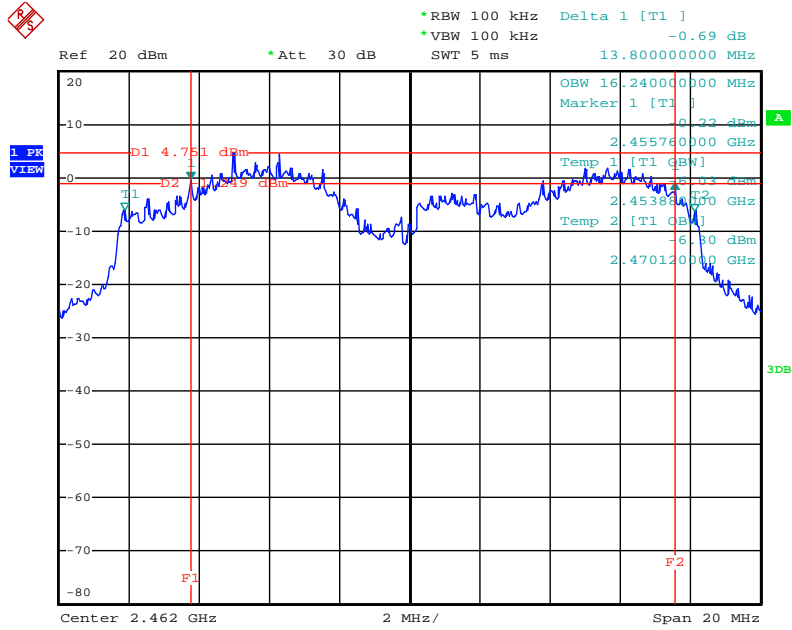
Date: 12.AUG.2010 02:47:50

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



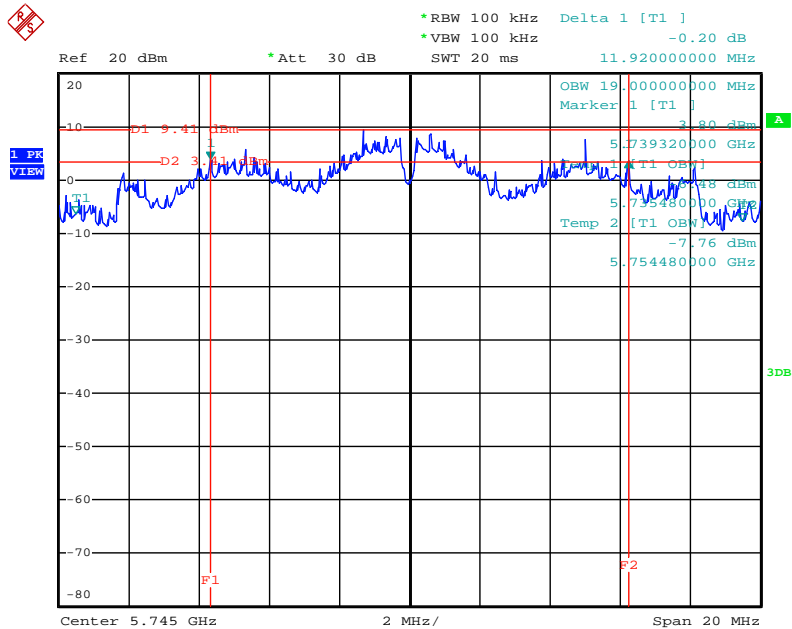
Date: 12.AUG.2010 02:49:54

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



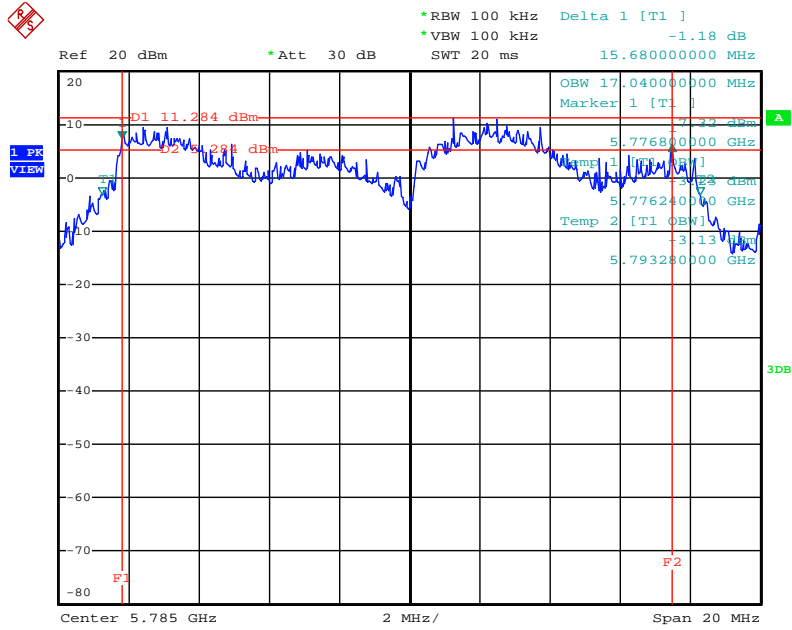
Date: 12.AUG.2010 02:51:47

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



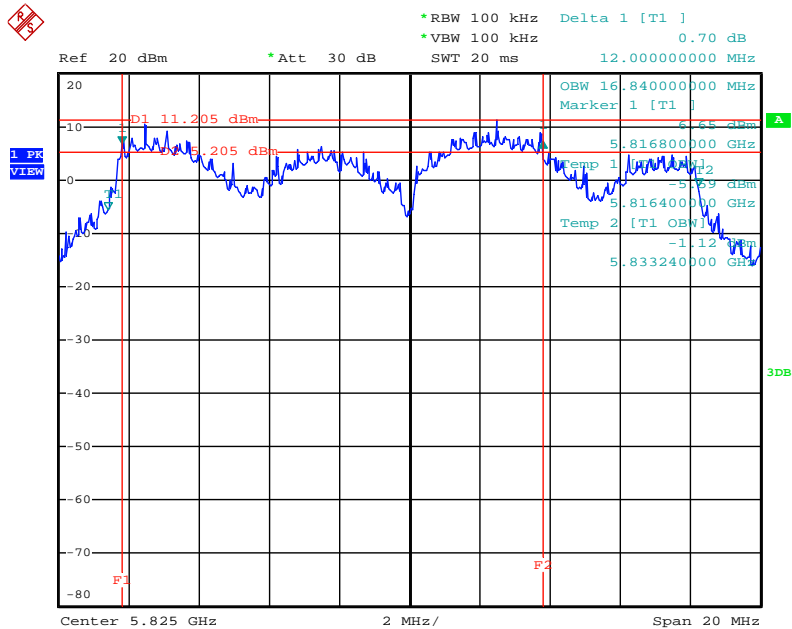
Date: 12.AUG.2010 23:00:04

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785MHz



Date: 12.AUG.2010 23:02:48

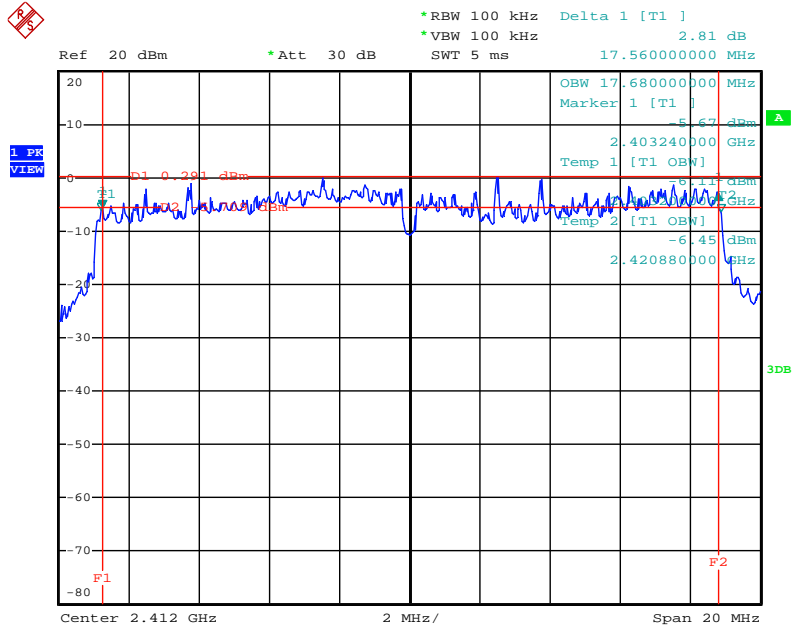
6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 12.AUG.2010 23:04:44

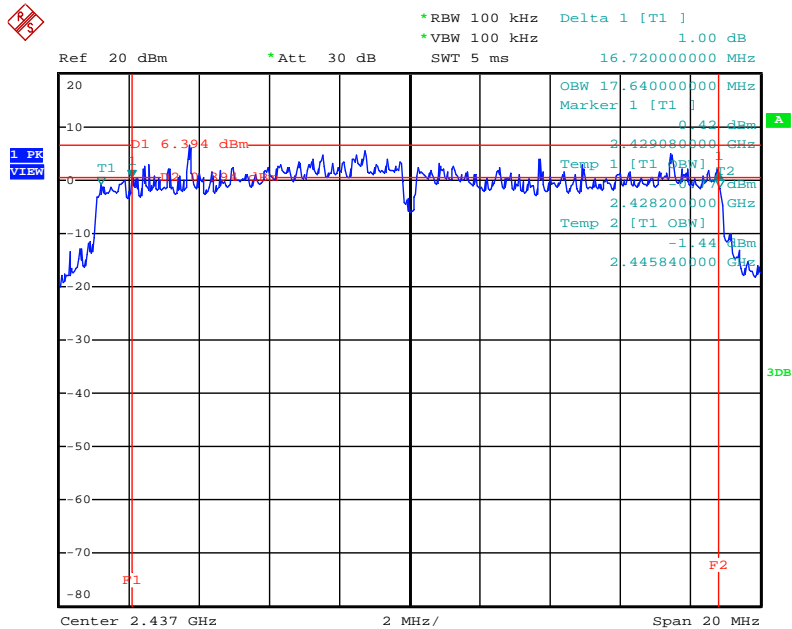
<For Mode 5 (Ant. 5)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



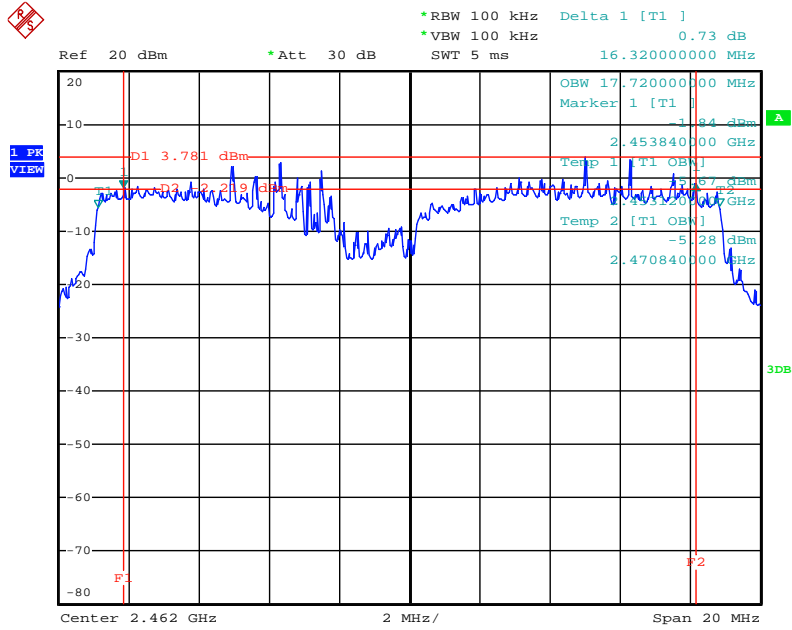
Date: 12.AUG.2010 22:37:39

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



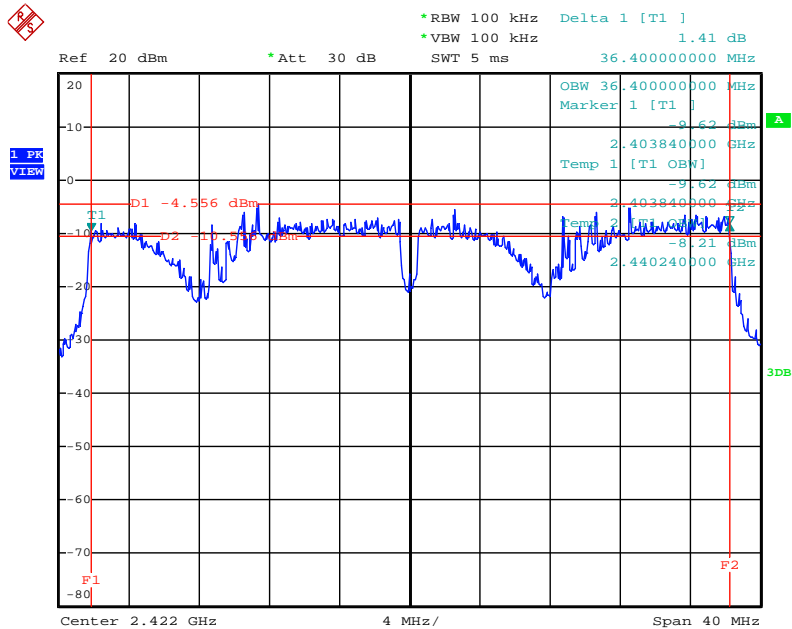
Date: 12.AUG.2010 22:35:06

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4/ 2462 MHz



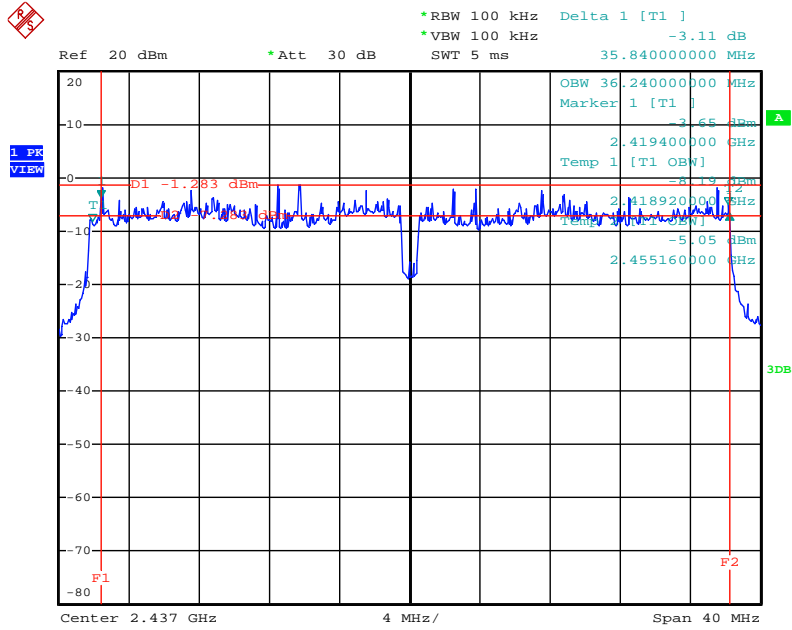
Date: 12.AUG.2010 22:46:35

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2422 MHz



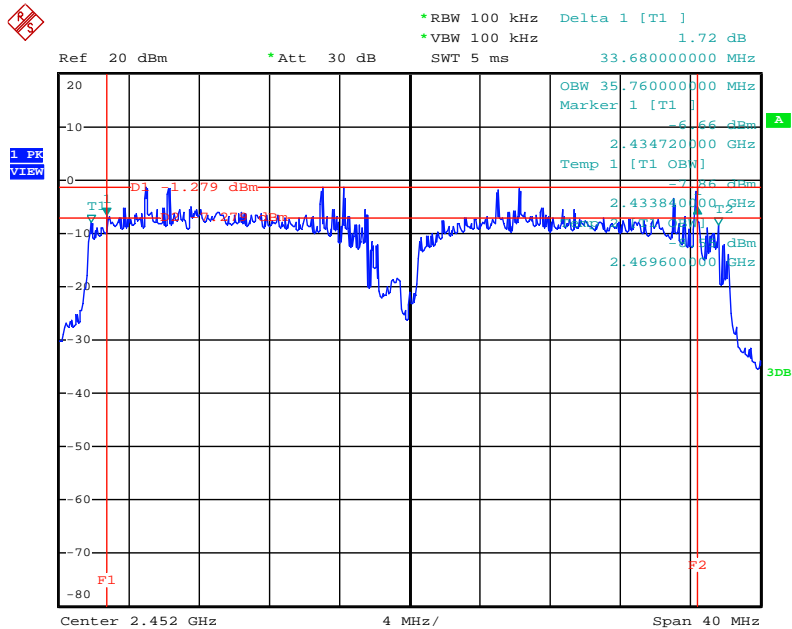
Date: 12.AUG.2010 22:40:03

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2437 MHz



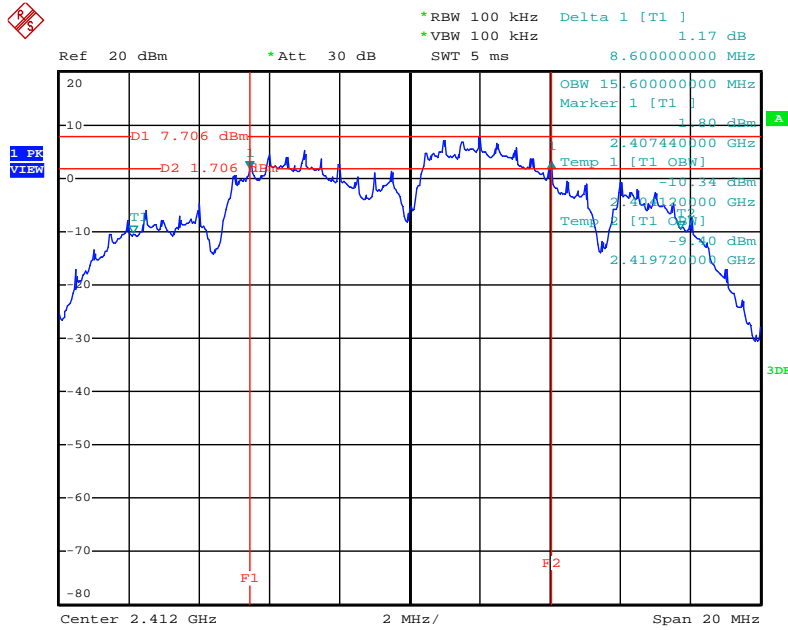
Date: 12.AUG.2010 22:42:00

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2452 MHz



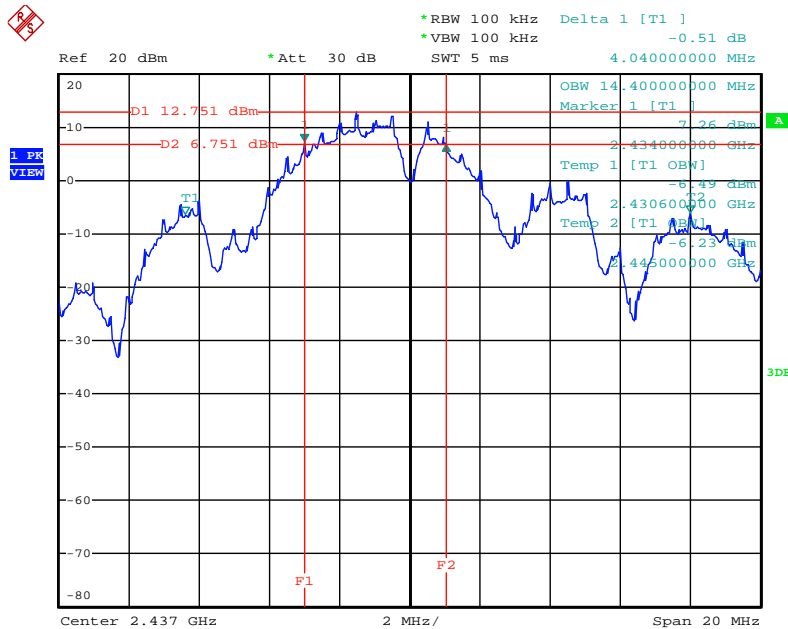
Date: 12.AUG.2010 22:43:53

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



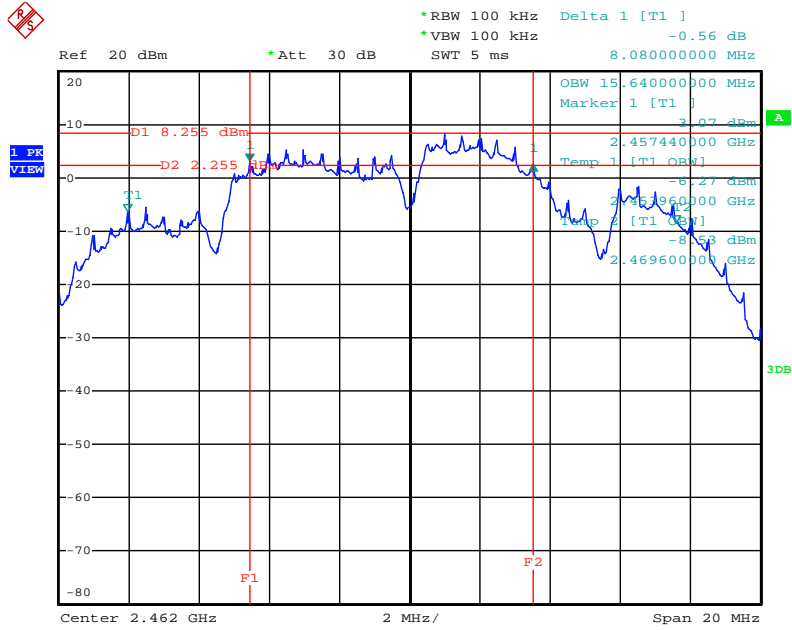
Date: 12.AUG.2010 22:48:43

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



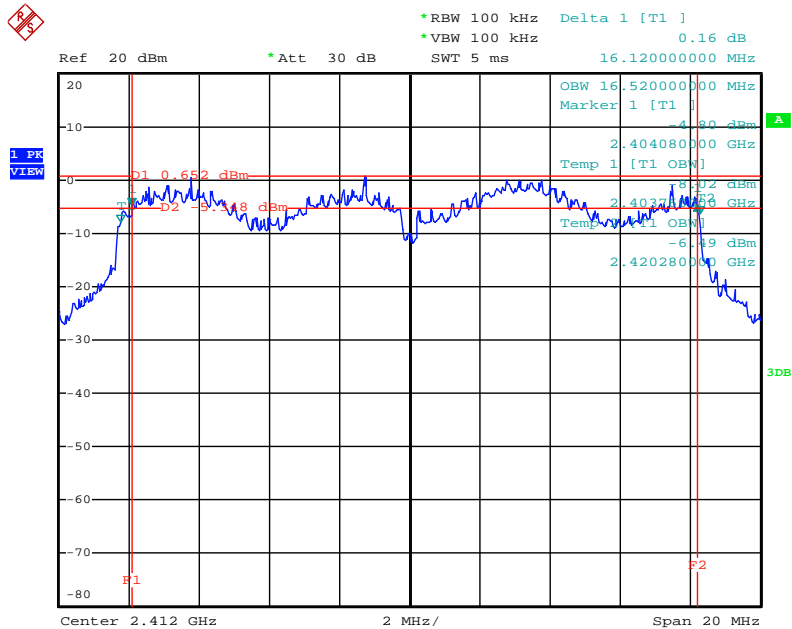
Date: 12.AUG.2010 22:22:15

6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



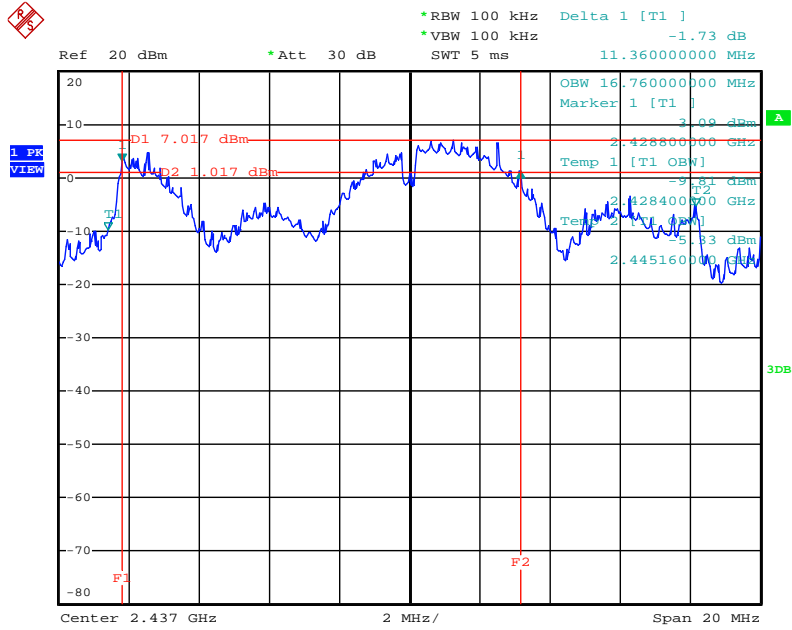
Date: 12.AUG.2010 22:20:18

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



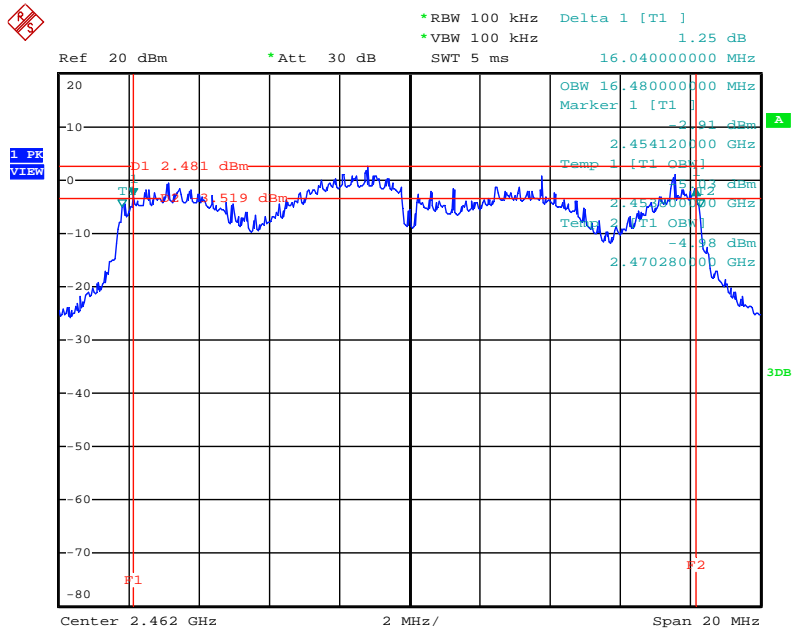
Date: 12.AUG.2010 22:26:18

6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



Date: 12.AUG.2010 22:28:13

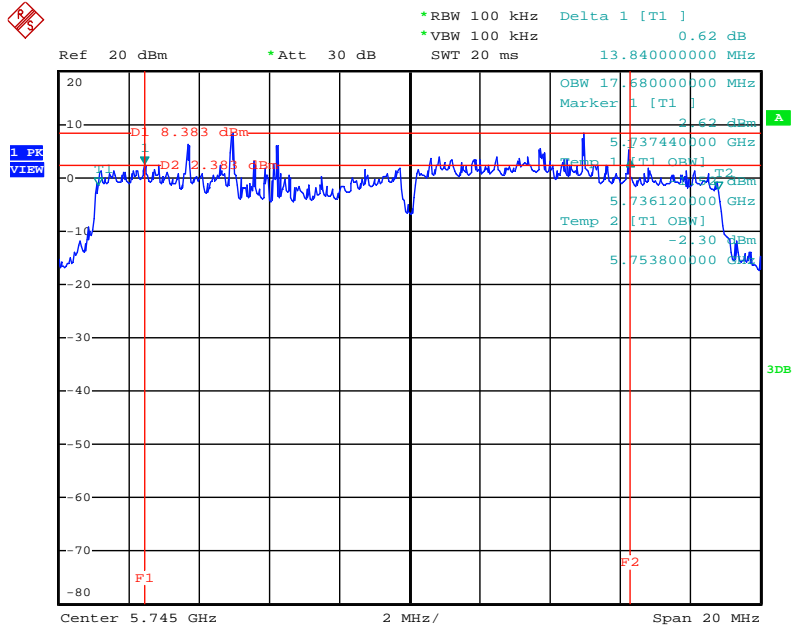
6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



Date: 12.AUG.2010 22:30:12

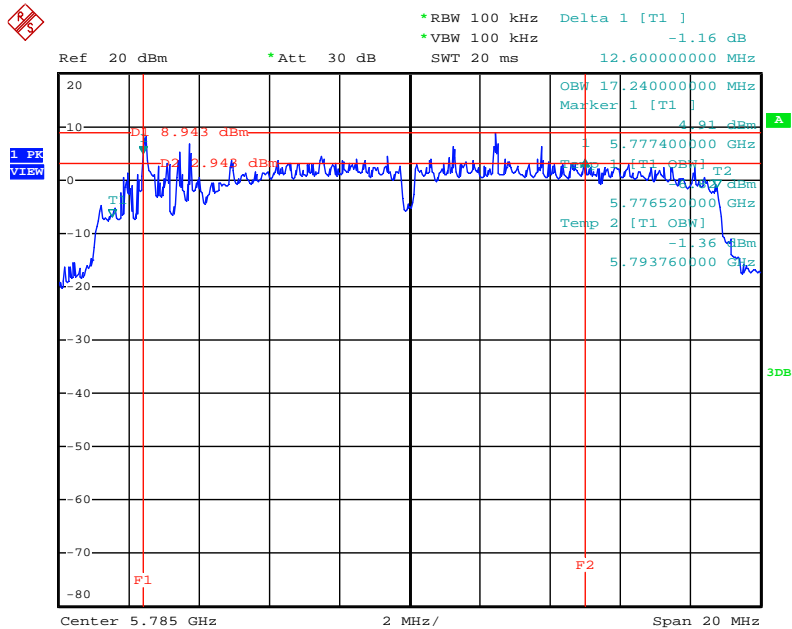
<For Mode 6 (Ant. 6)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5745 MHz



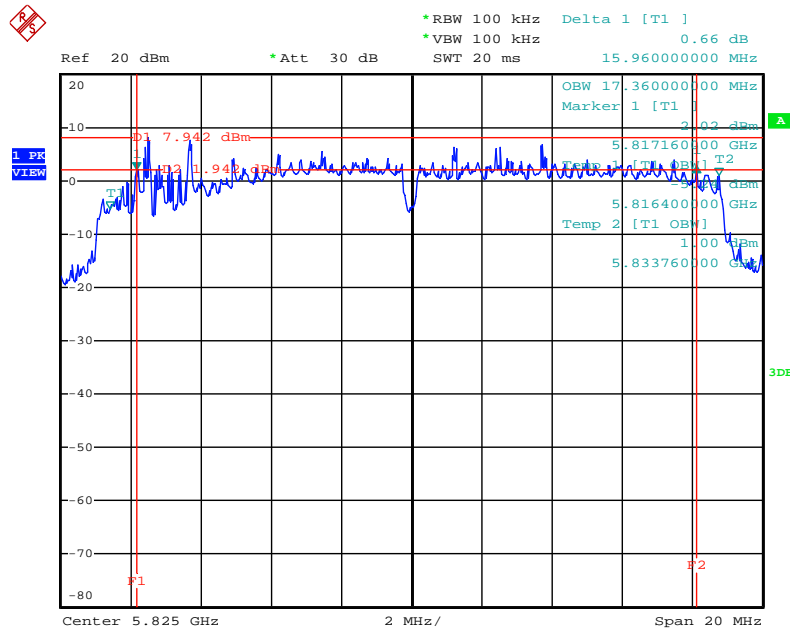
Date: 13.AUG.2010 01:37:41

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5785MHz



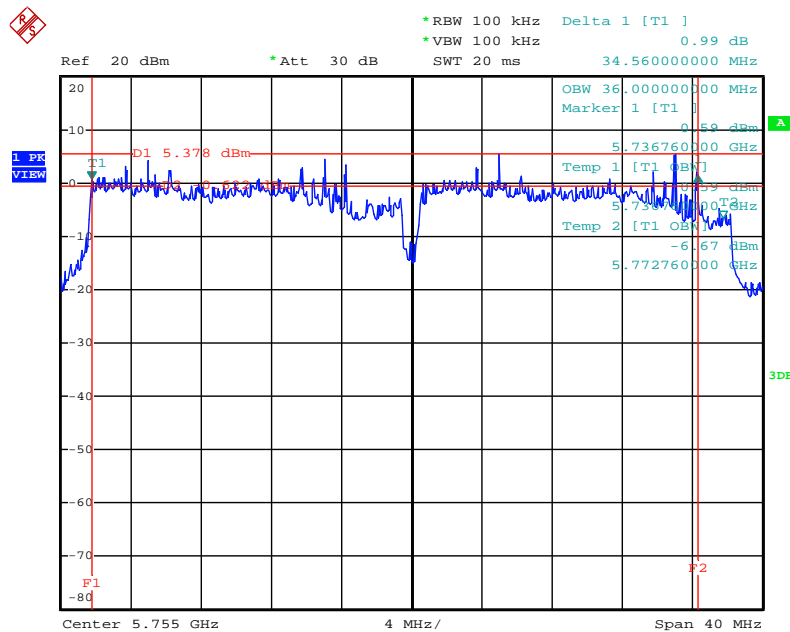
Date: 13.AUG.2010 01:35:44

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5825 MHz



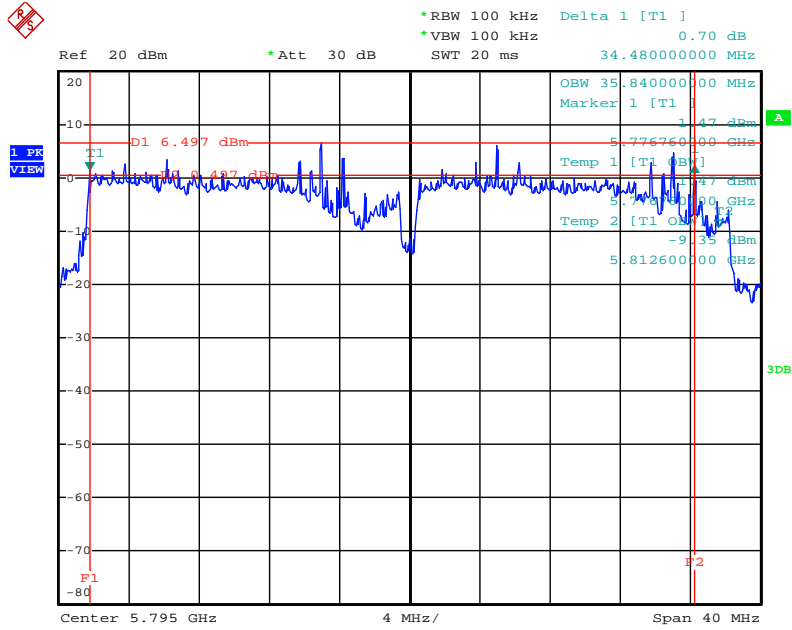
Date: 13.AUG.2010 01:33:48

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5755 MHz



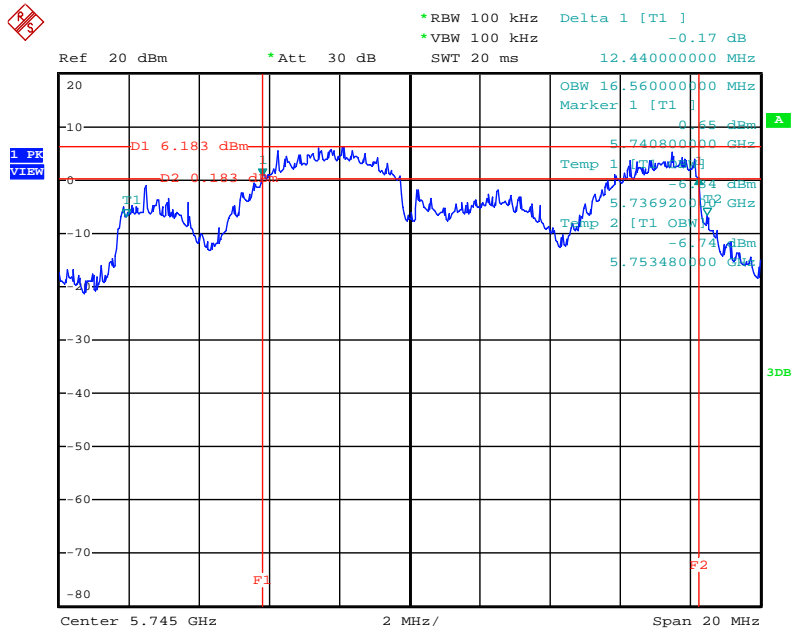
Date: 13.AUG.2010 01:39:47

6 dB Bandwidth Plot on Configuration IEEE 802.11a MCS8 40MHz J2+J3+J4 / 5795 MHz



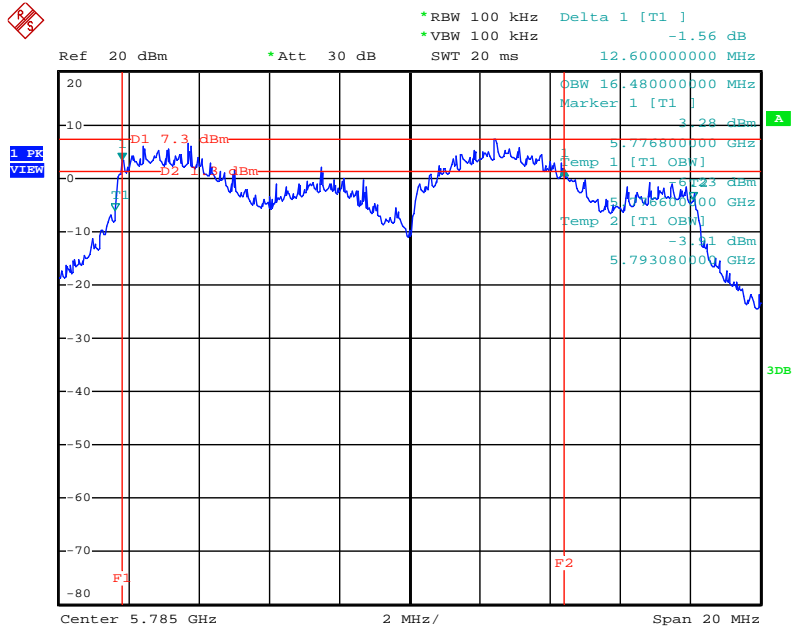
Date: 13.AUG.2010 01:41:43

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



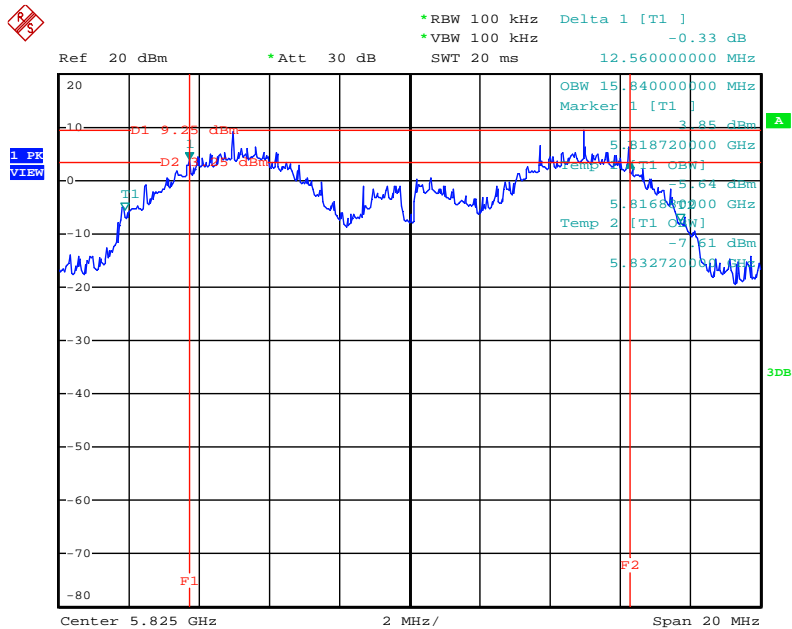
Date: 13.AUG.2010 01:28:04

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785MHz



Date: 13.AUG.2010 01:29:59

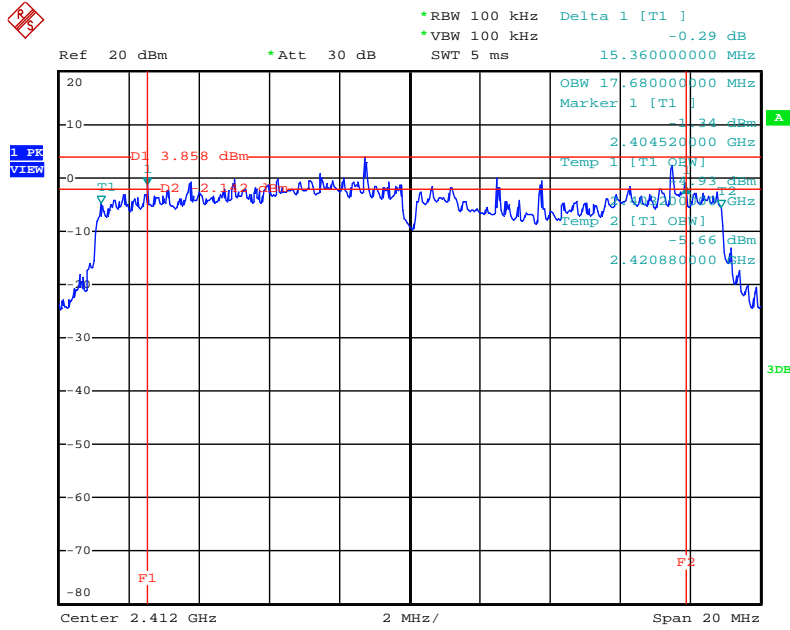
6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 13.AUG.2010 01:31:50

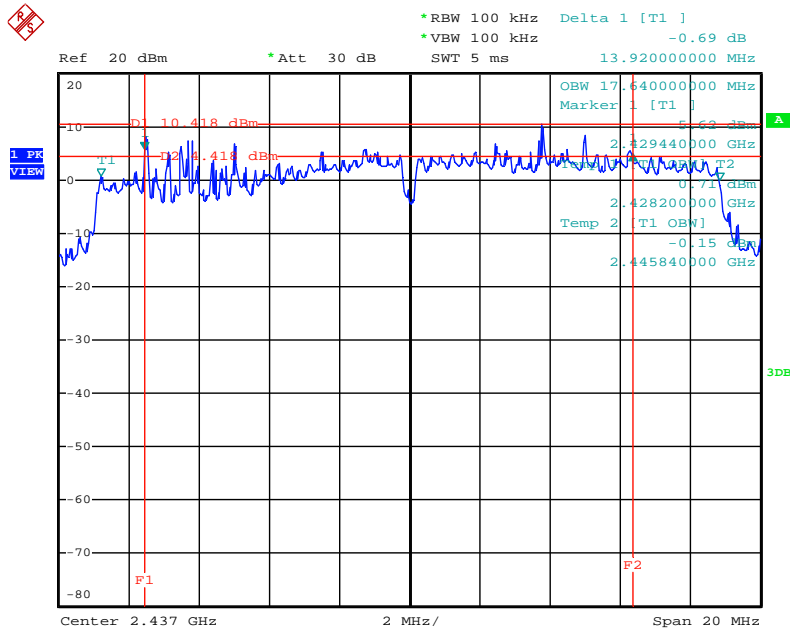
<For Mode 7 (Ant. 7)>:

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



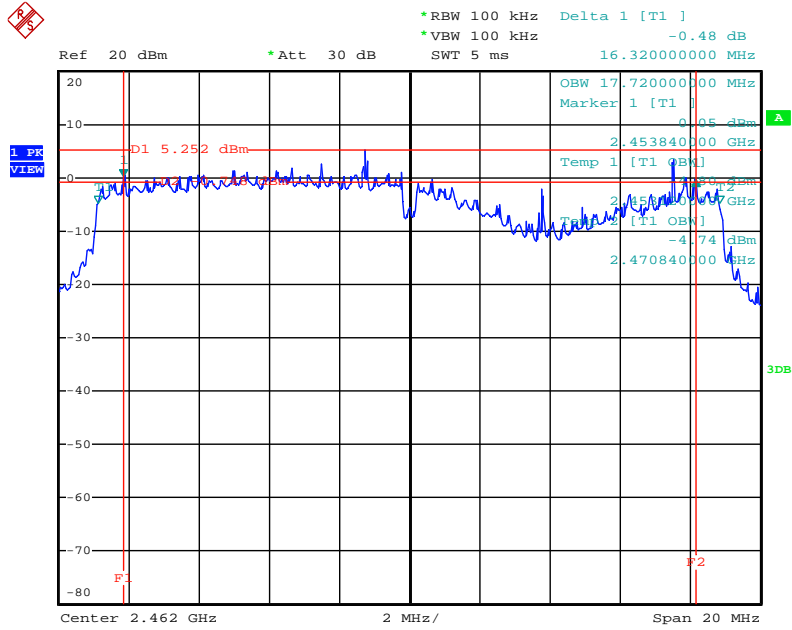
Date: 2.SEP.2010 18:14:04

6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



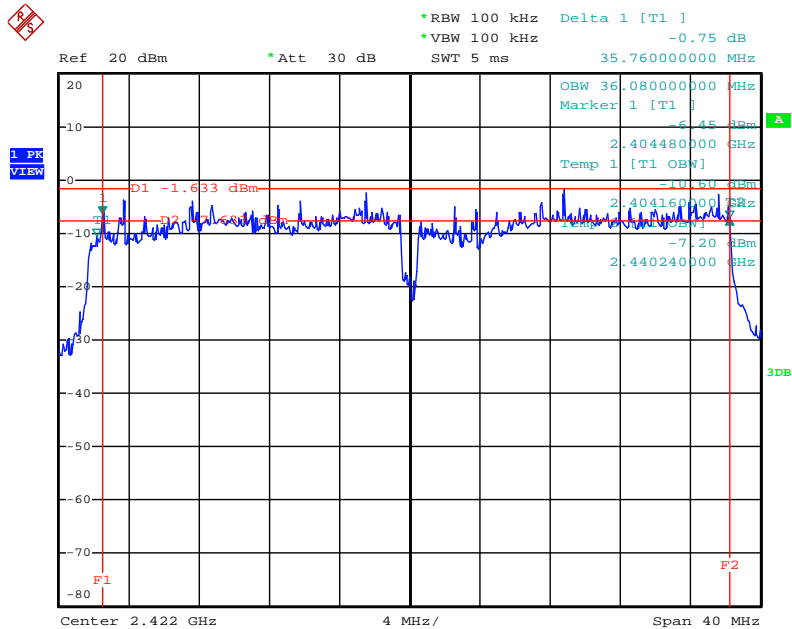
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4/ 2462 MHz



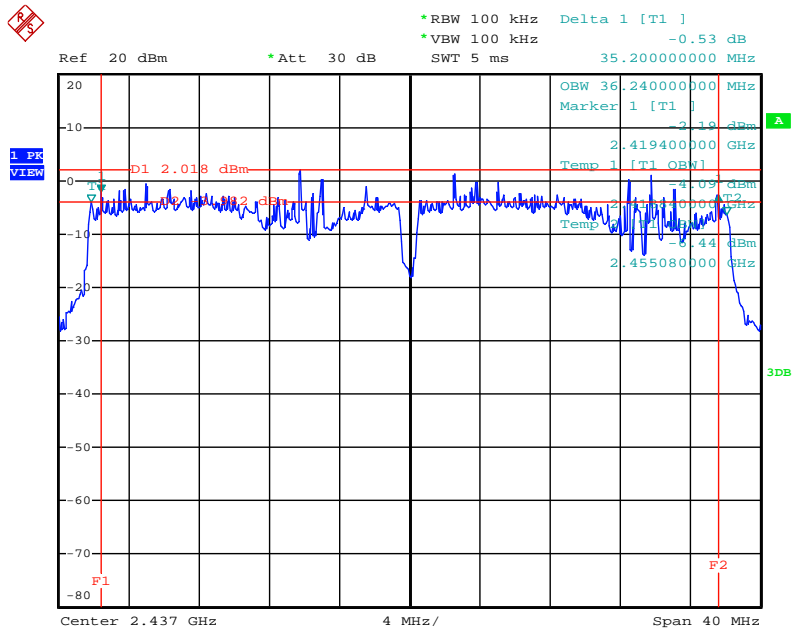
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2422 MHz



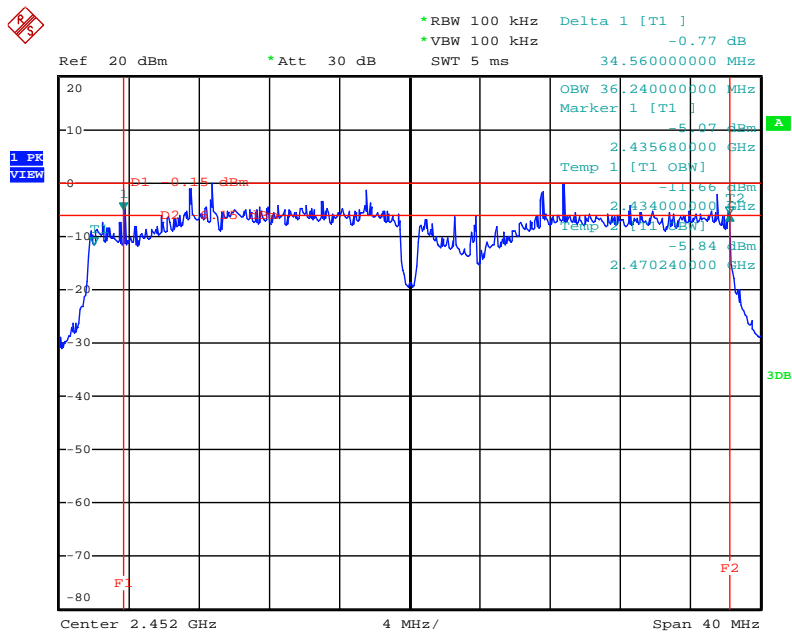
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2437 MHz



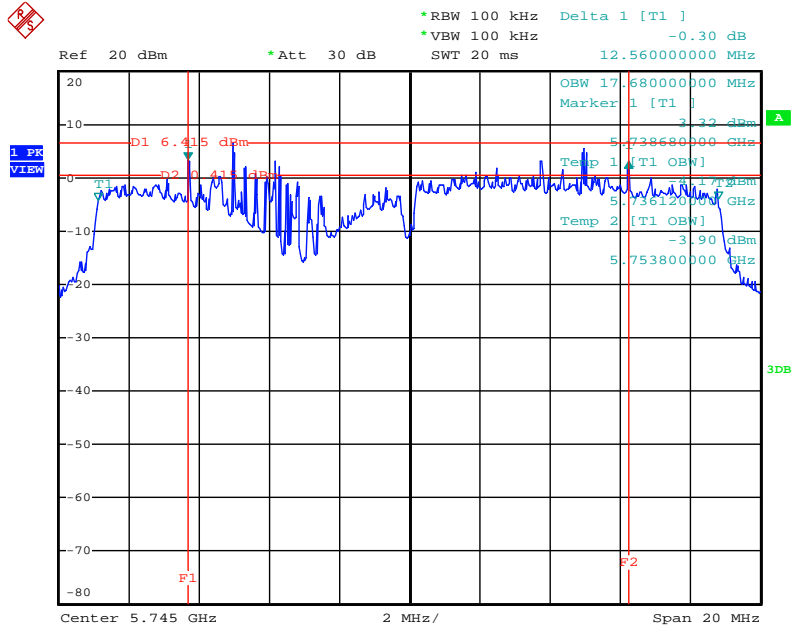
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2452 MHz



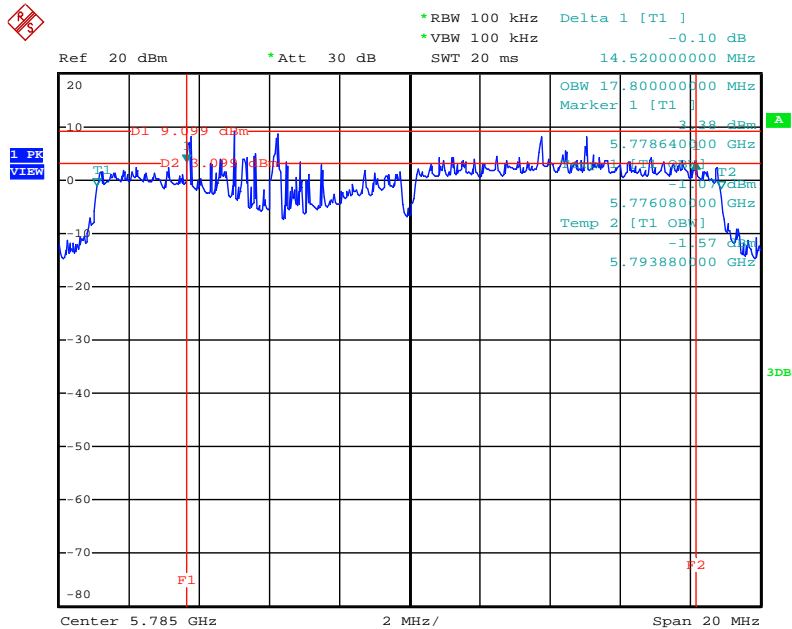
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5745 MHz



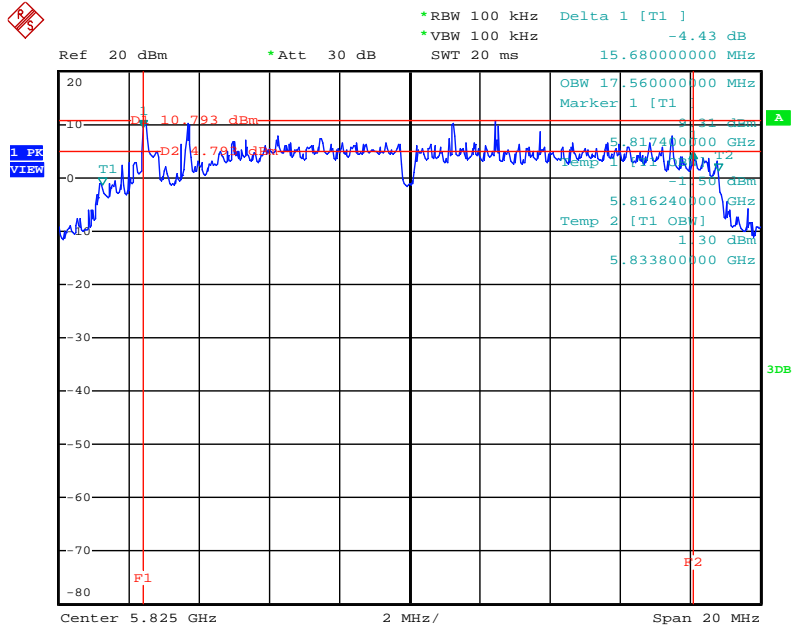
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5785MHz



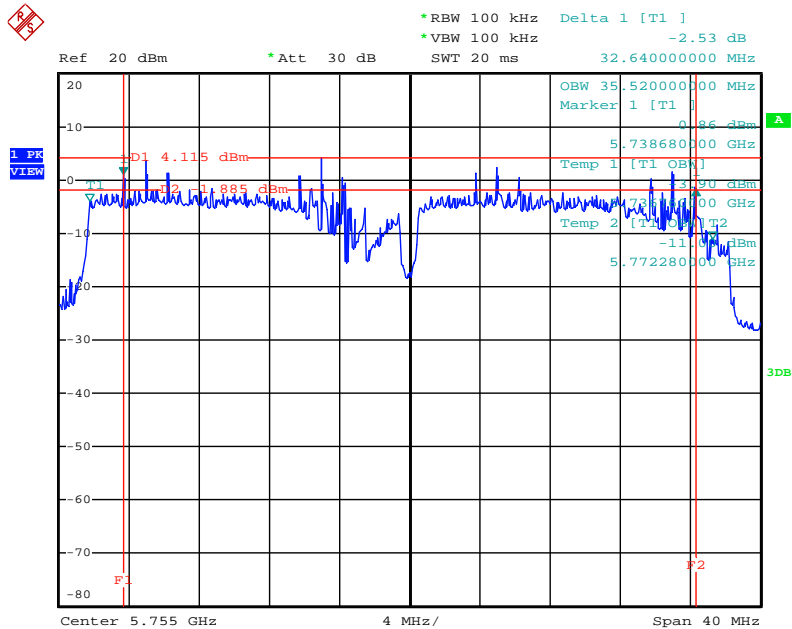
Date: 2.SEP.2010 18:35:03

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5825 MHz



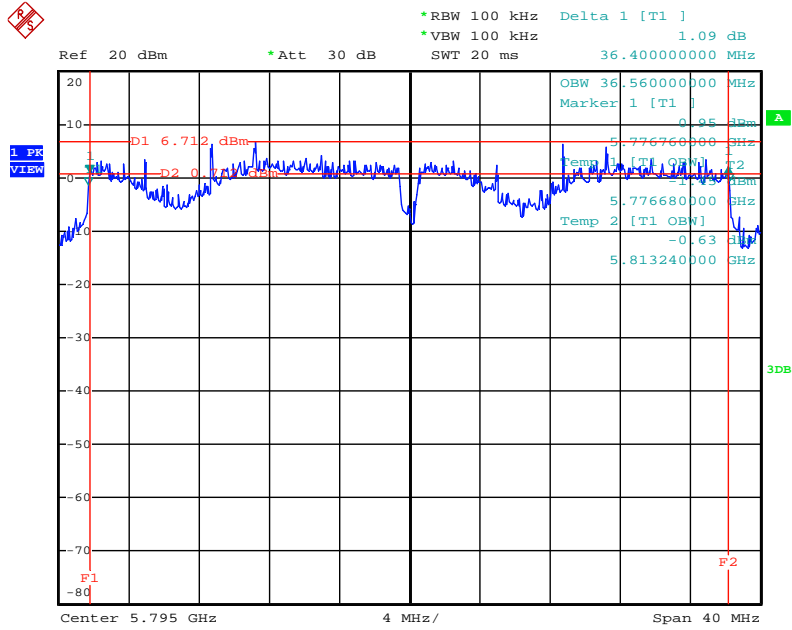
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5755 MHz



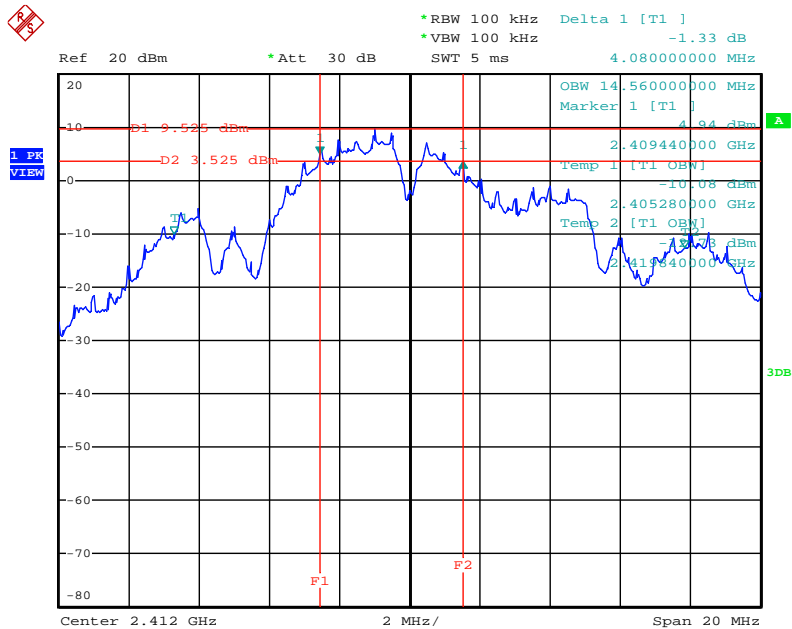
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5795 MHz



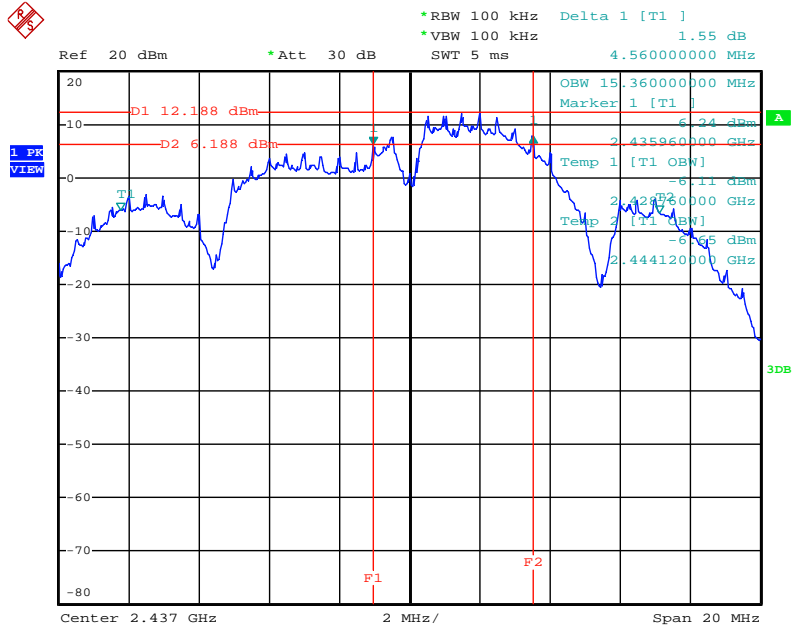
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



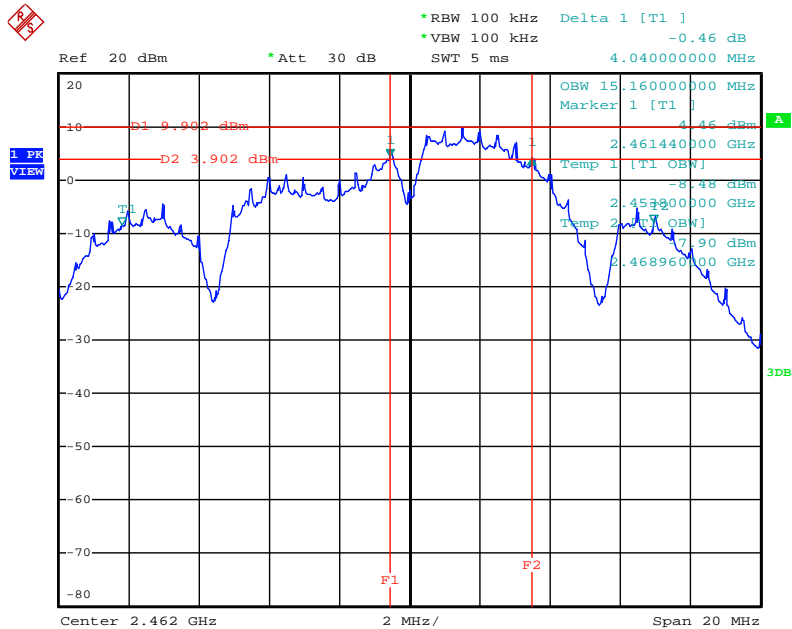
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



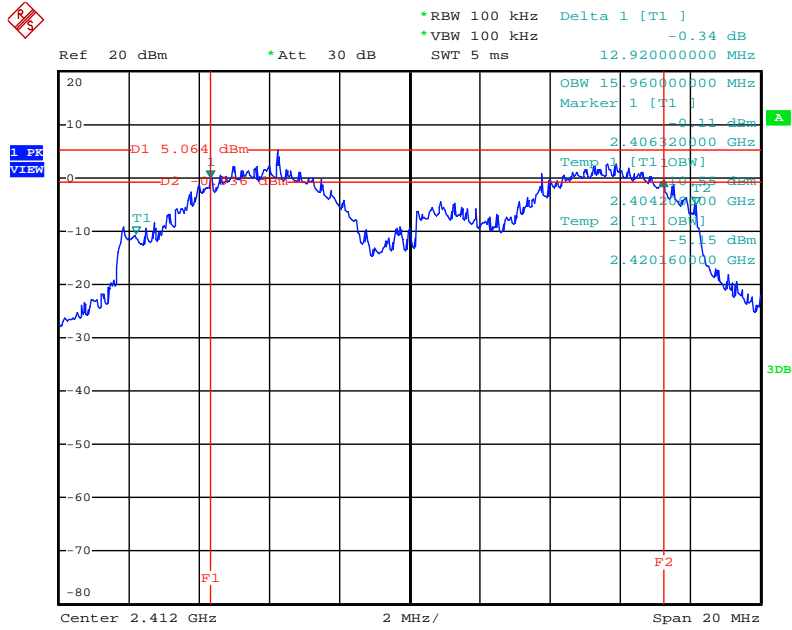
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



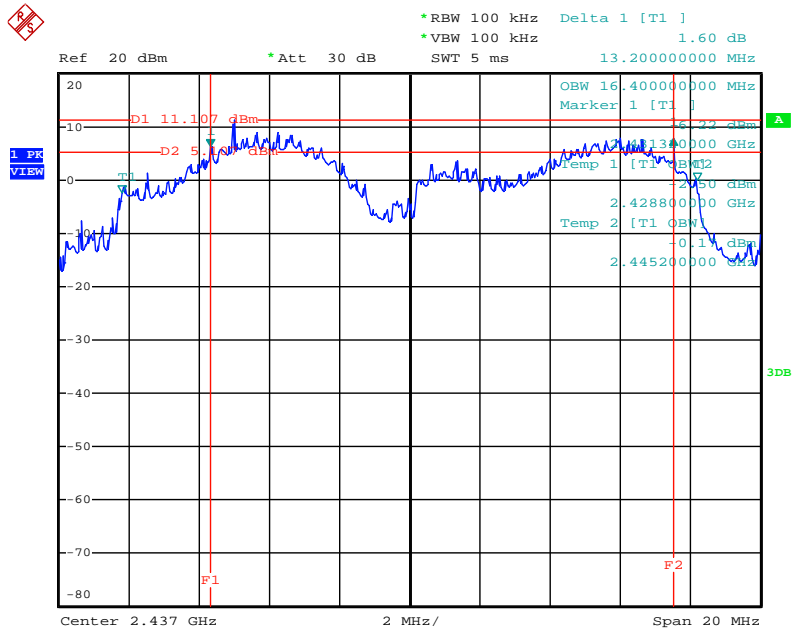
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



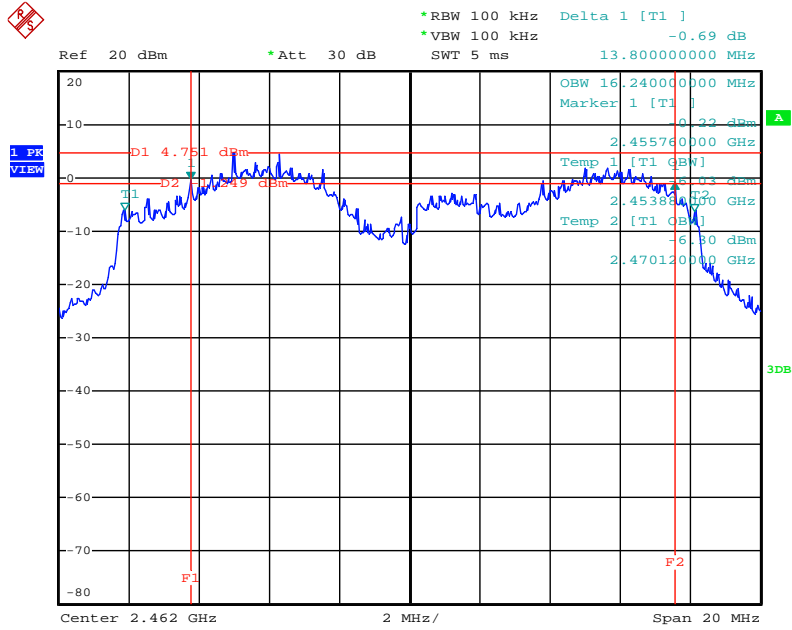
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



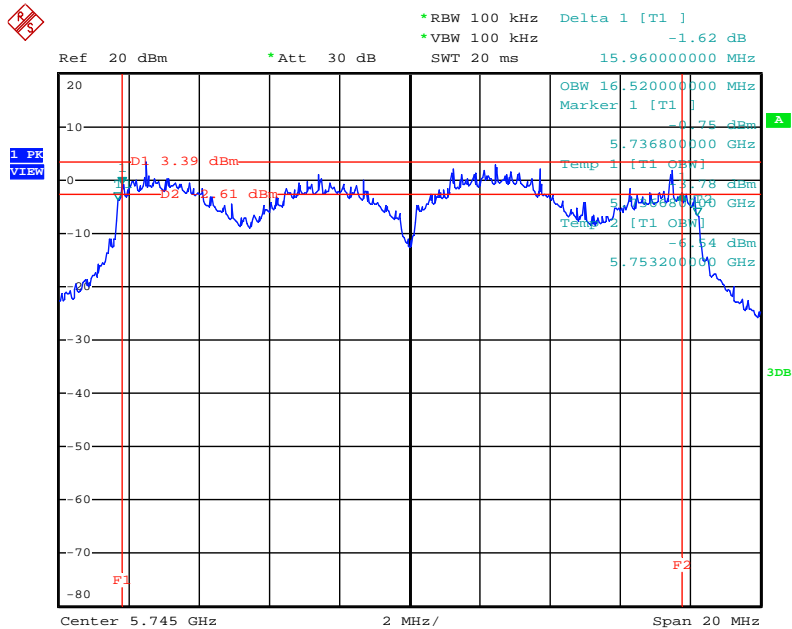
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



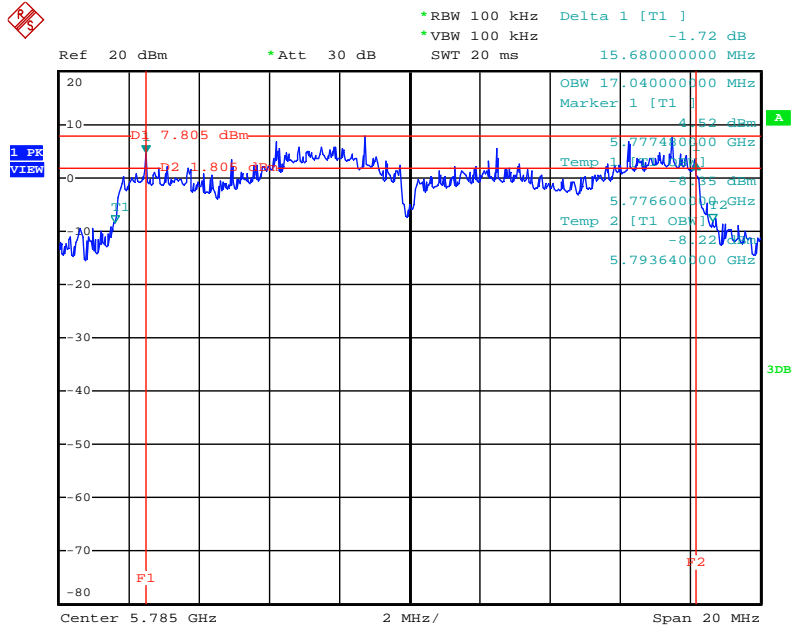
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6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



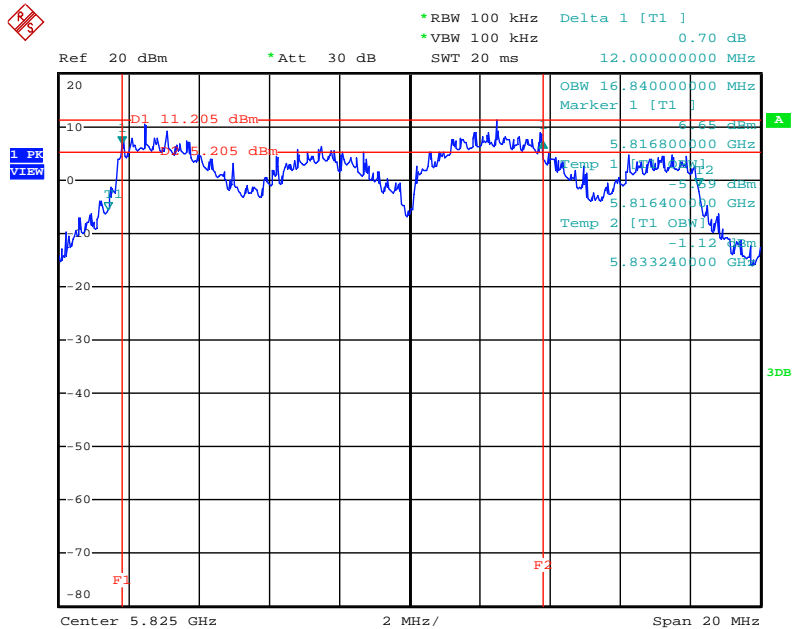
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6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785MHz



Date: 2.SEP.2010 18:32:48

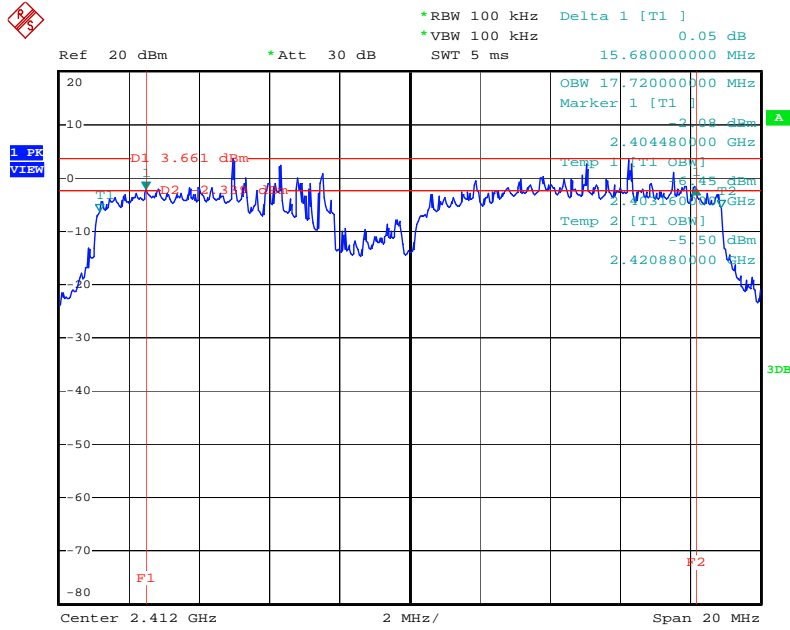
6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 12.AUG.2010 23:04:44

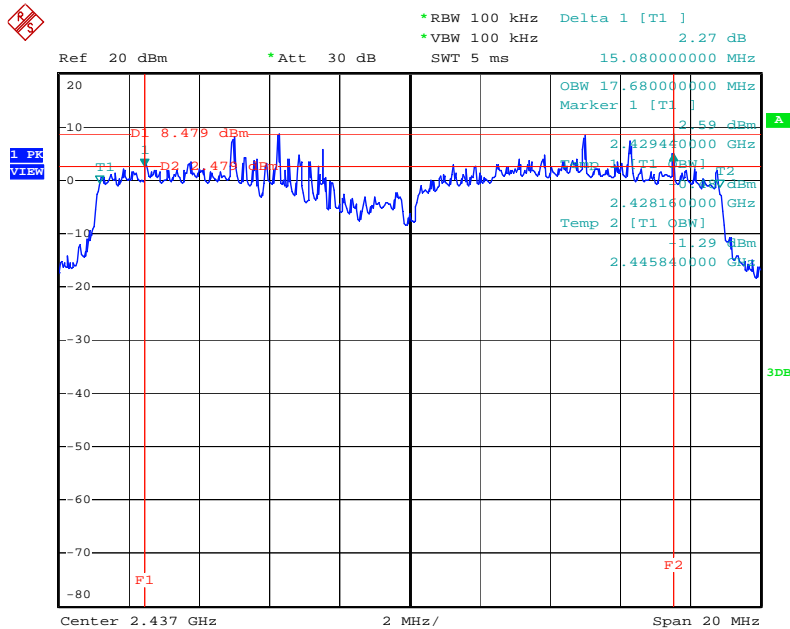
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2412 MHz



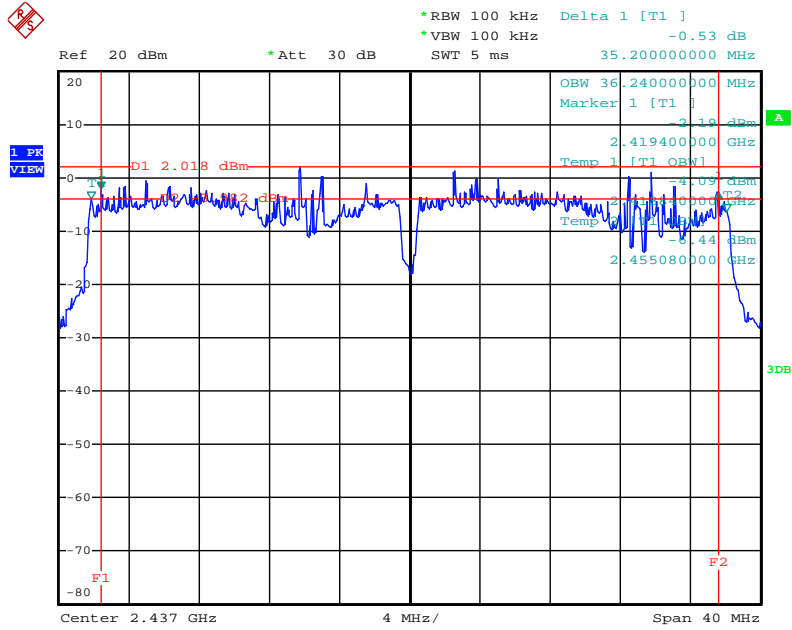
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 20MHz J2+J3+J4 / 2437 MHz



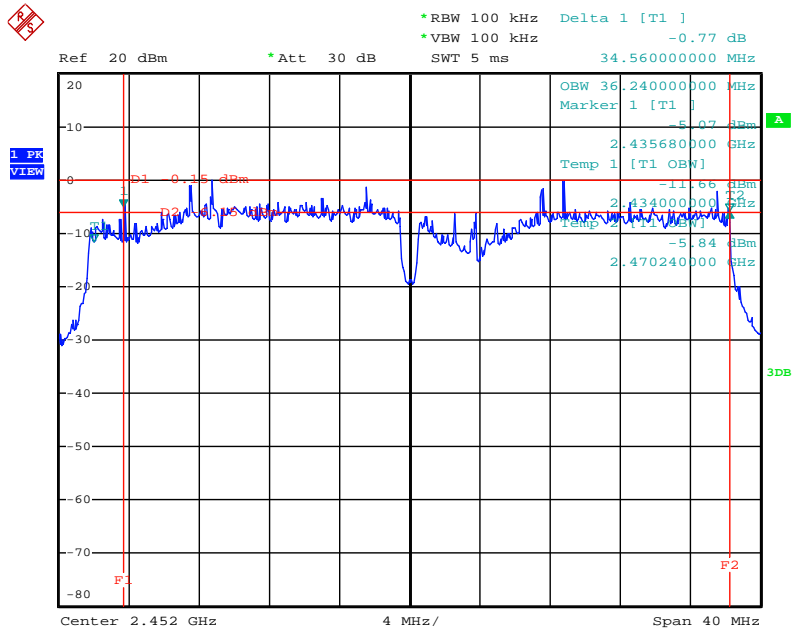
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2437 MHz



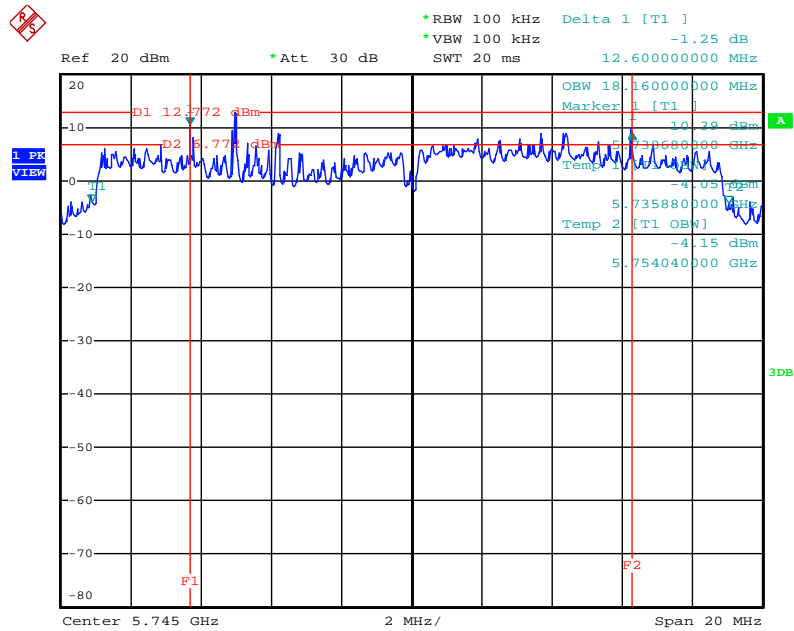
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6 dB Bandwidth Plot on Configuration IEEE 802.11n MCS8 40MHz J2+J3+J4 / 2452 MHz



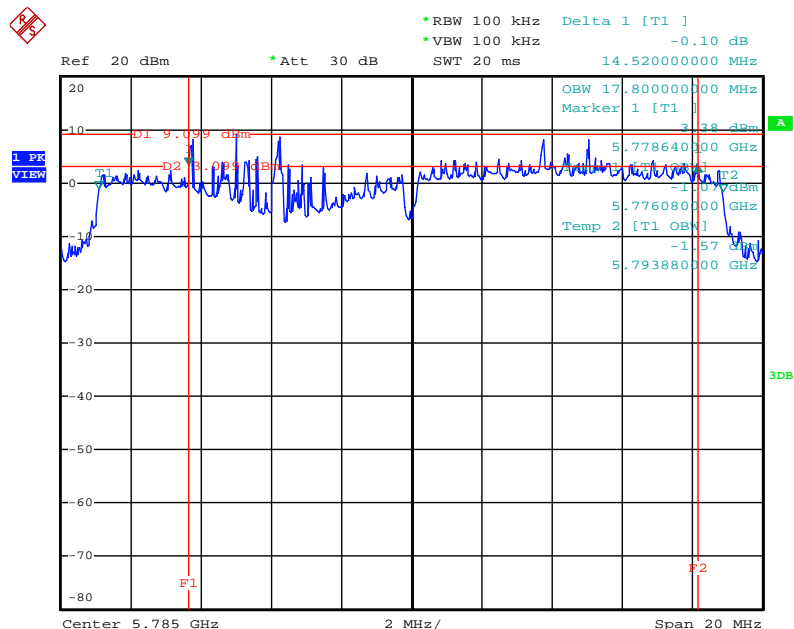
Date: 12.AUG.2010 03:07:21

6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5745 MHz



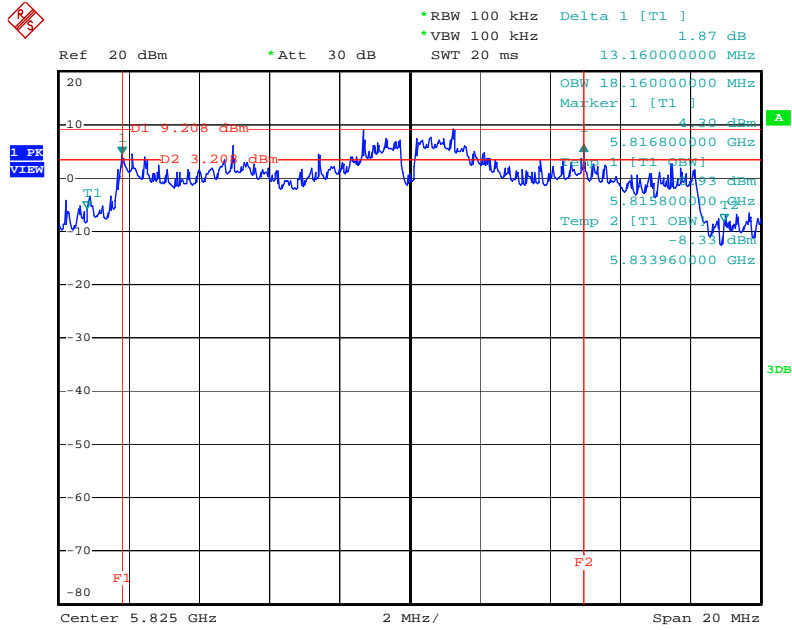
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5785MHz



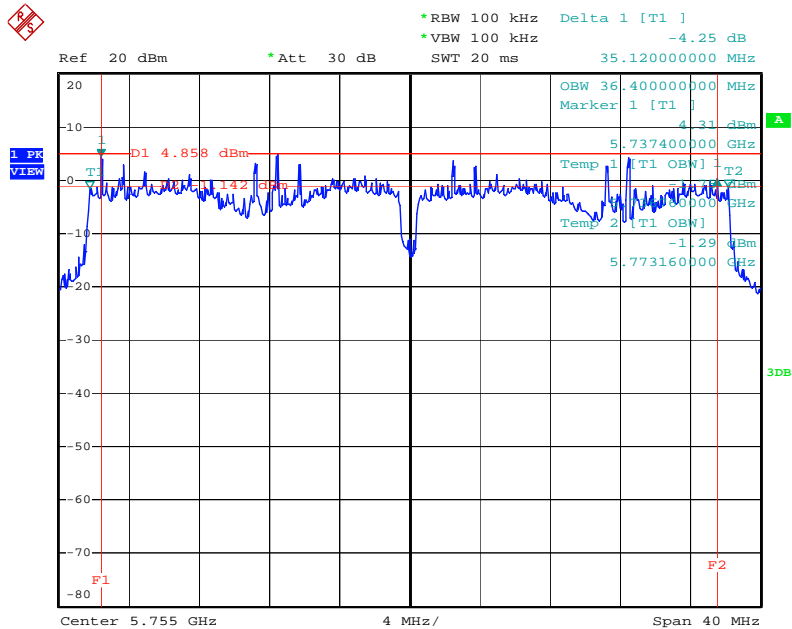
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 20MHz J2+J3+J4 / 5825 MHz



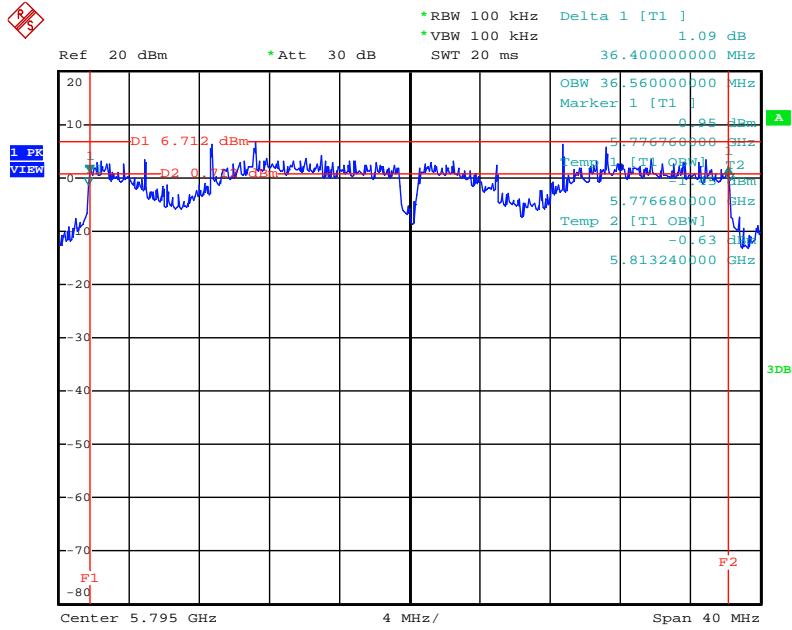
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5755 MHz



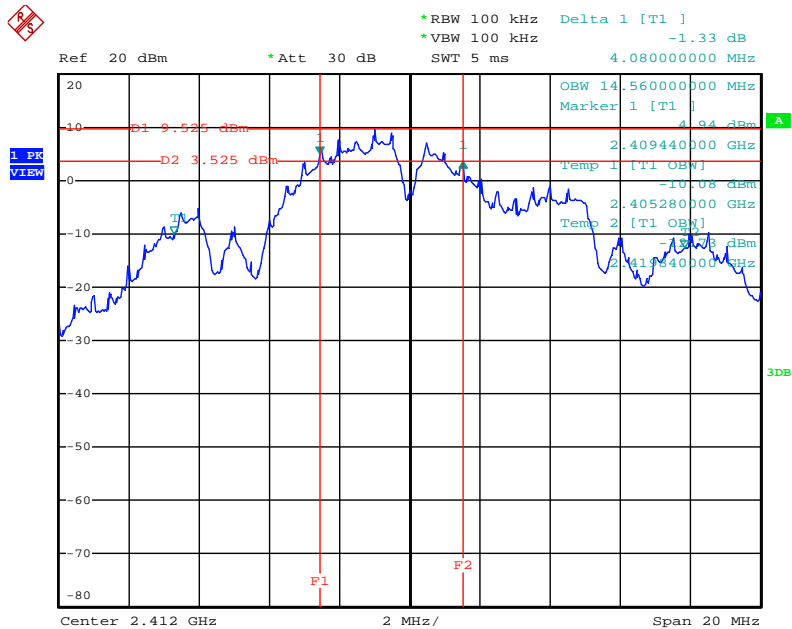
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6 dB Bandwidth Plot on Configuration IEEE 802.11an MCS8 40MHz J2+J3+J4 / 5795 MHz



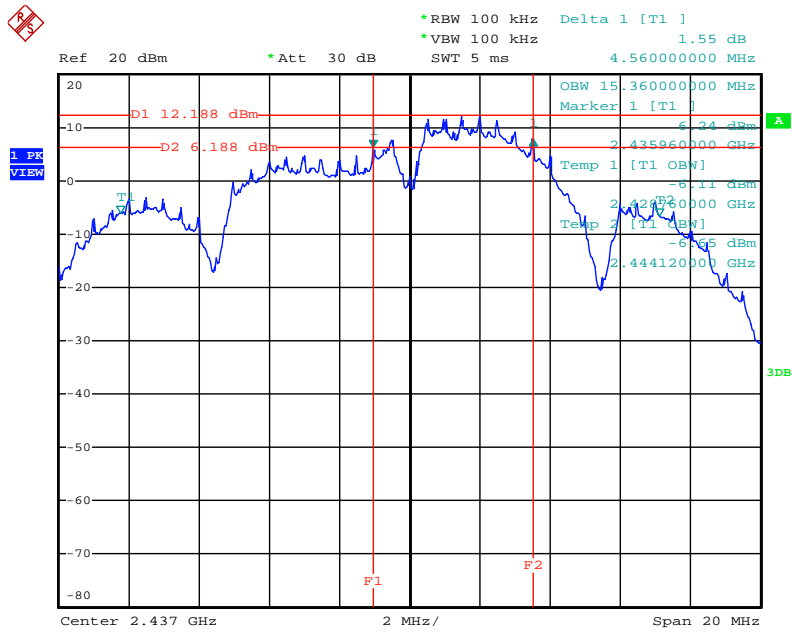
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2412 MHz



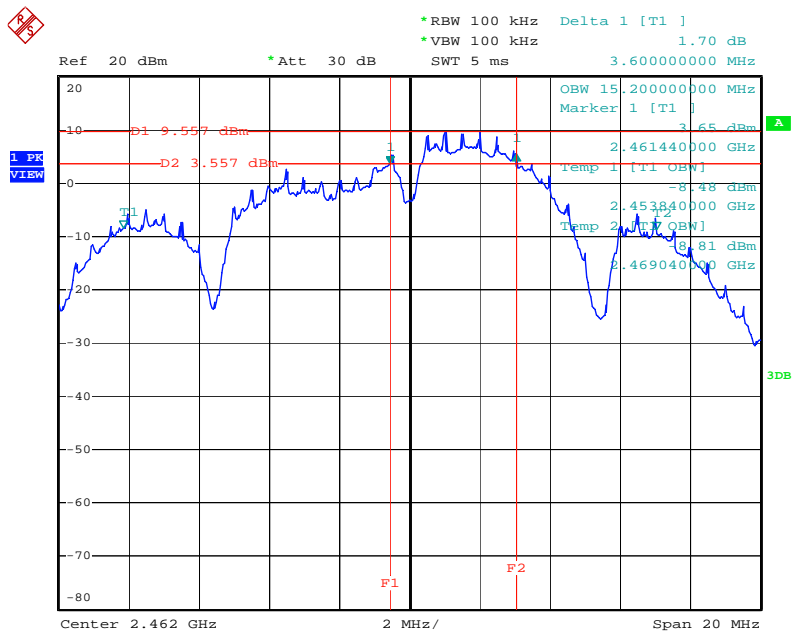
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2437 MHz



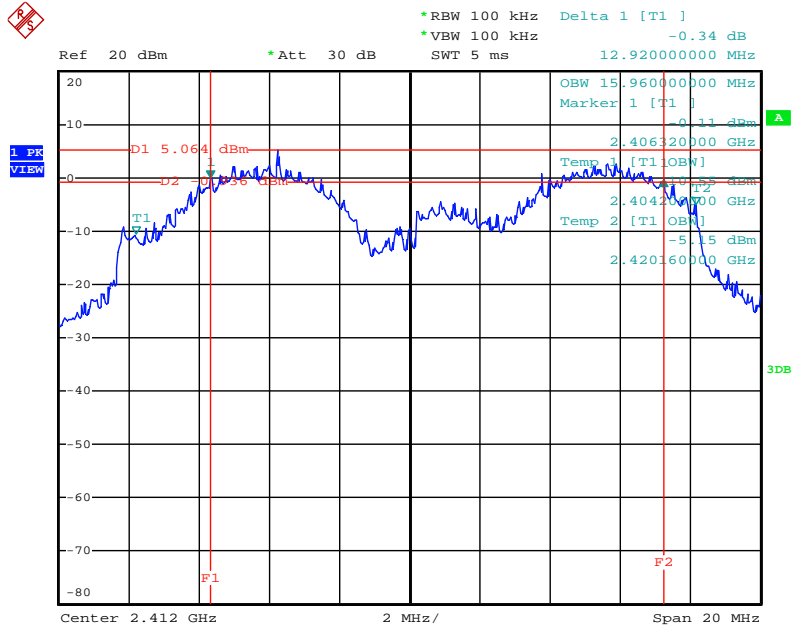
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6 dB Bandwidth Plot on Configuration IEEE 802.11b J2+J3+J4 / 2462 MHz



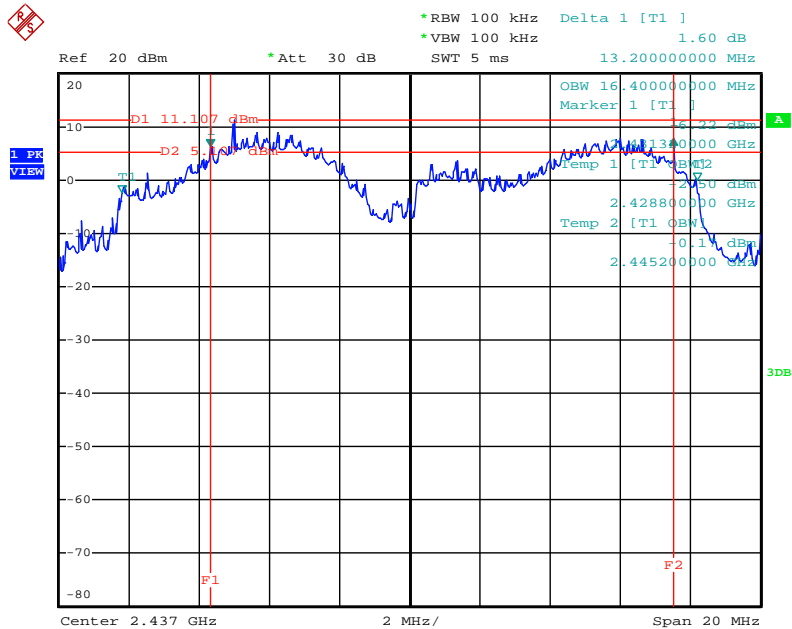
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2412 MHz



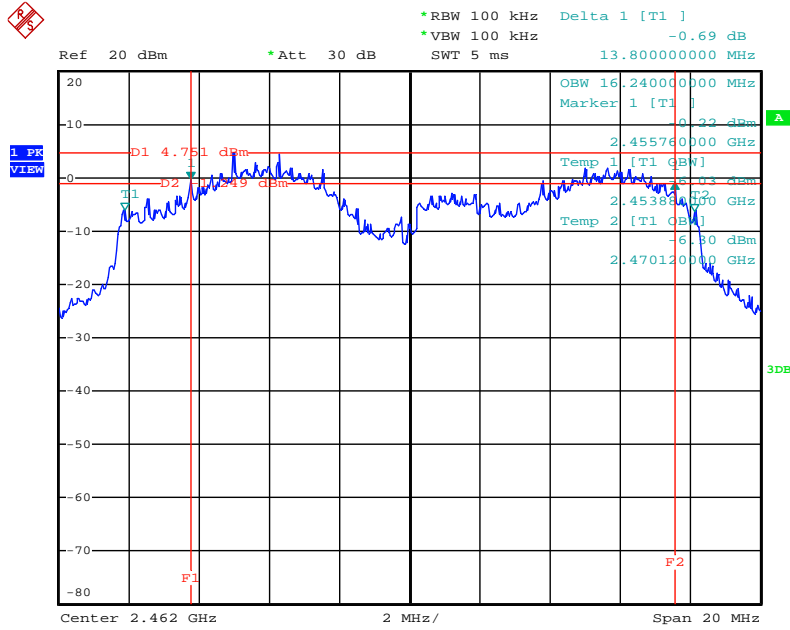
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2437 MHz



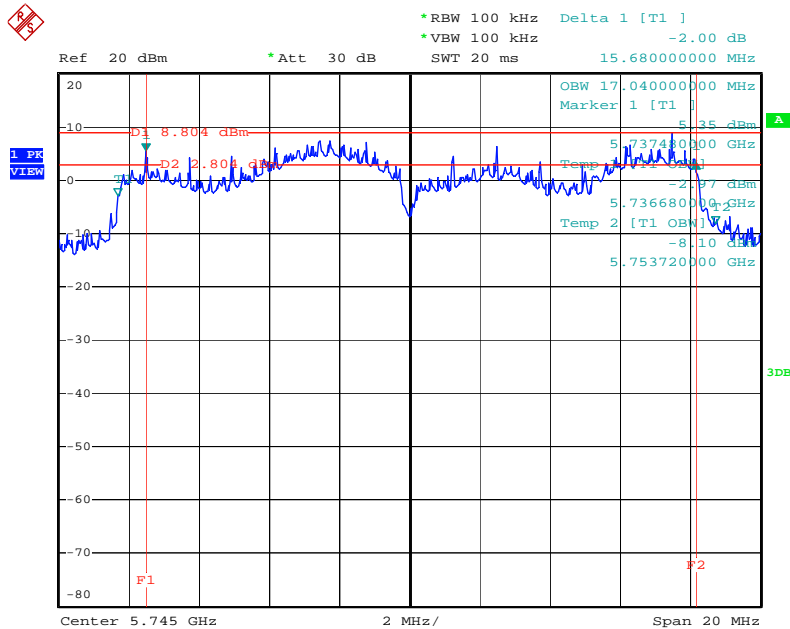
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6 dB Bandwidth Plot on Configuration IEEE 802.11g J2+J3+J4 / 2462 MHz



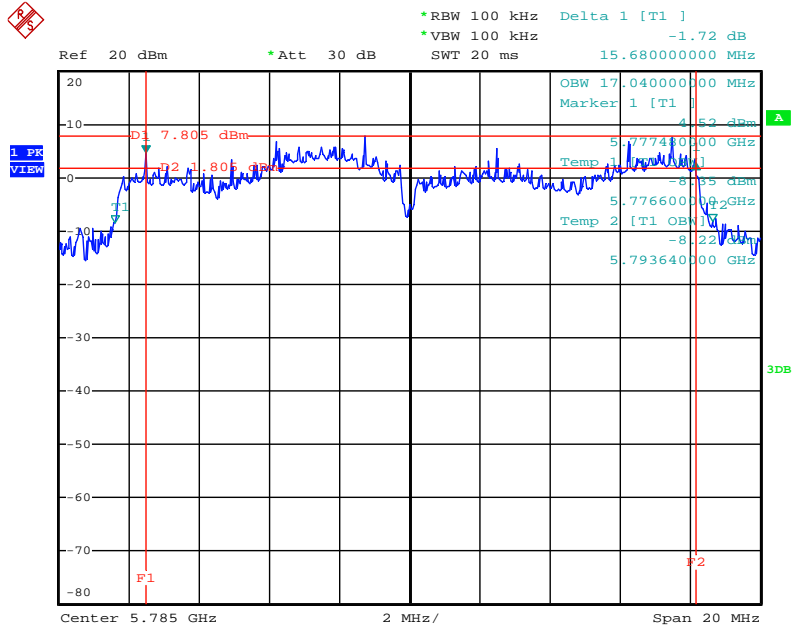
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6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5745 MHz



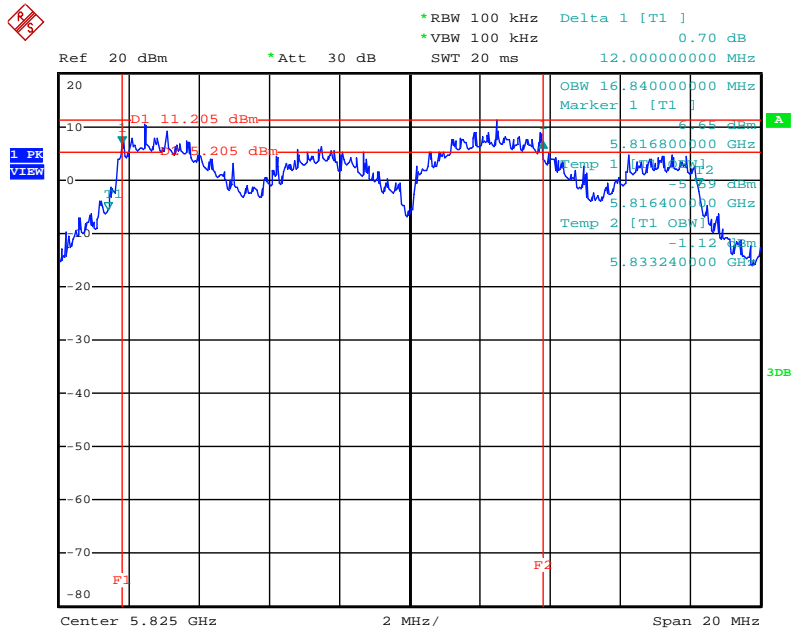
Date: 28.JAN.2011 18:19:37

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5785MHz



Date: 2.SEP.2010 18:32:48

6 dB Bandwidth Plot on Configuration IEEE 802.11a J2+J3+J4 / 5825 MHz



Date: 12.AUG.2010 23:04:44