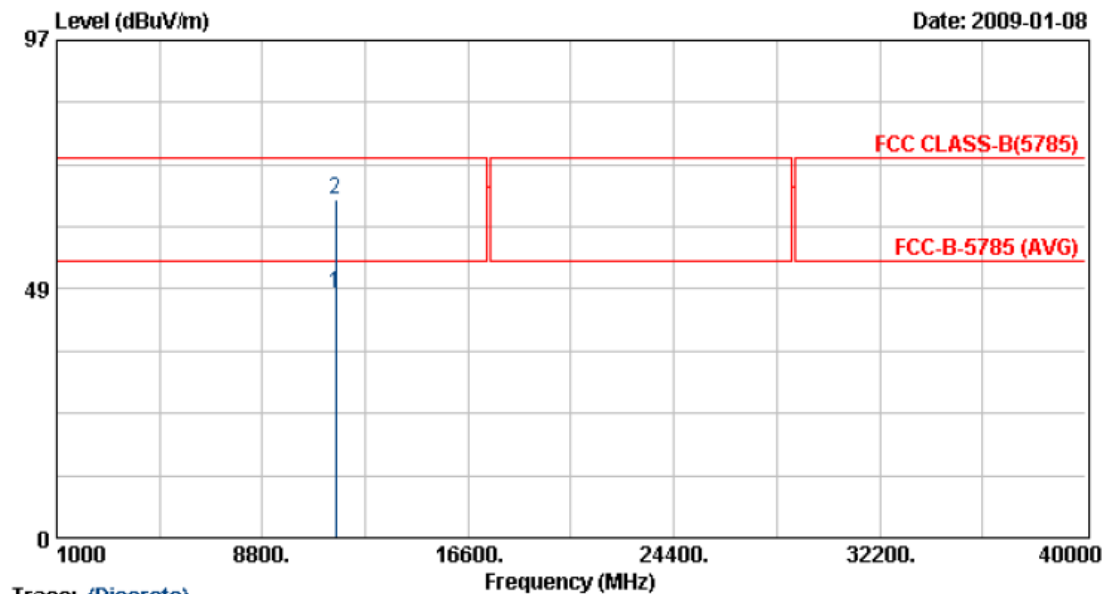




Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH157	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



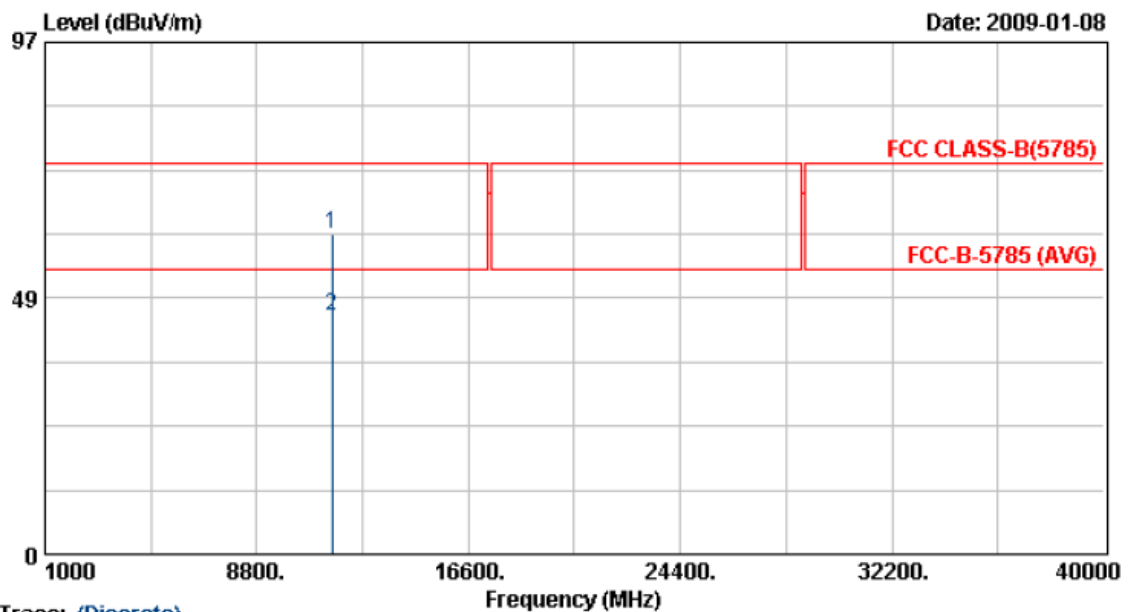
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11567.02	31.14	16.59	47.73	54.00	-6.27	Average	150	92
2	11568.16	49.36	16.60	65.95	74.00	-8.05	Peak	150	92

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH157	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

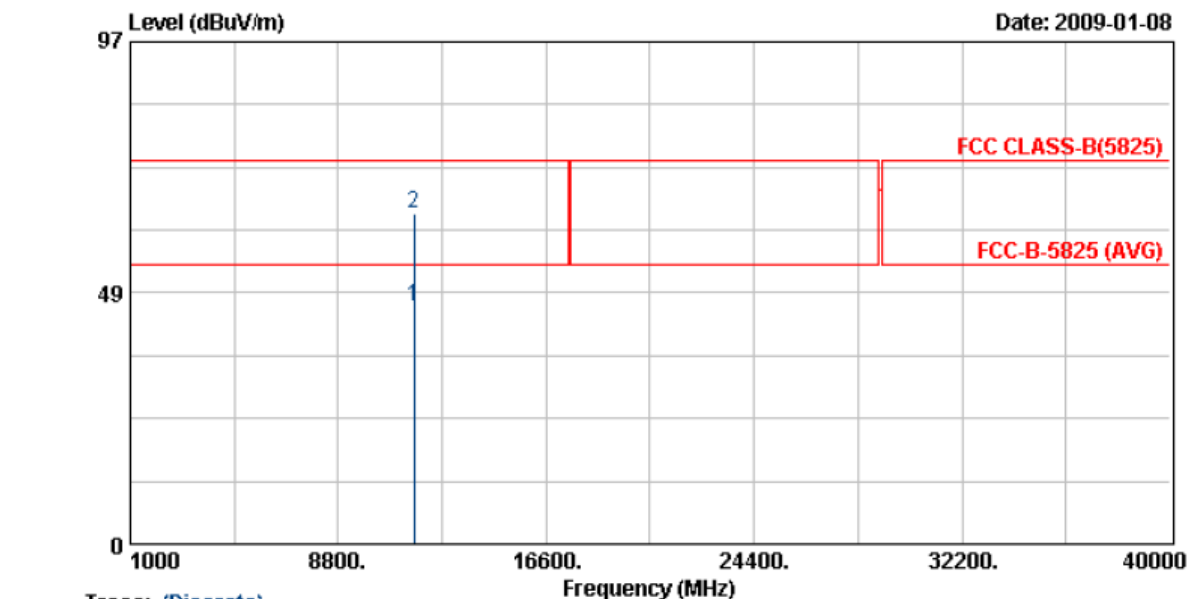
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11567.16	44.17	16.59	60.77	74.00	-13.23	Peak	100	192
2	11572.30	28.48	16.60	45.08	54.00	-8.92	Average	100	192

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 4	: 802.11a, CH165	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

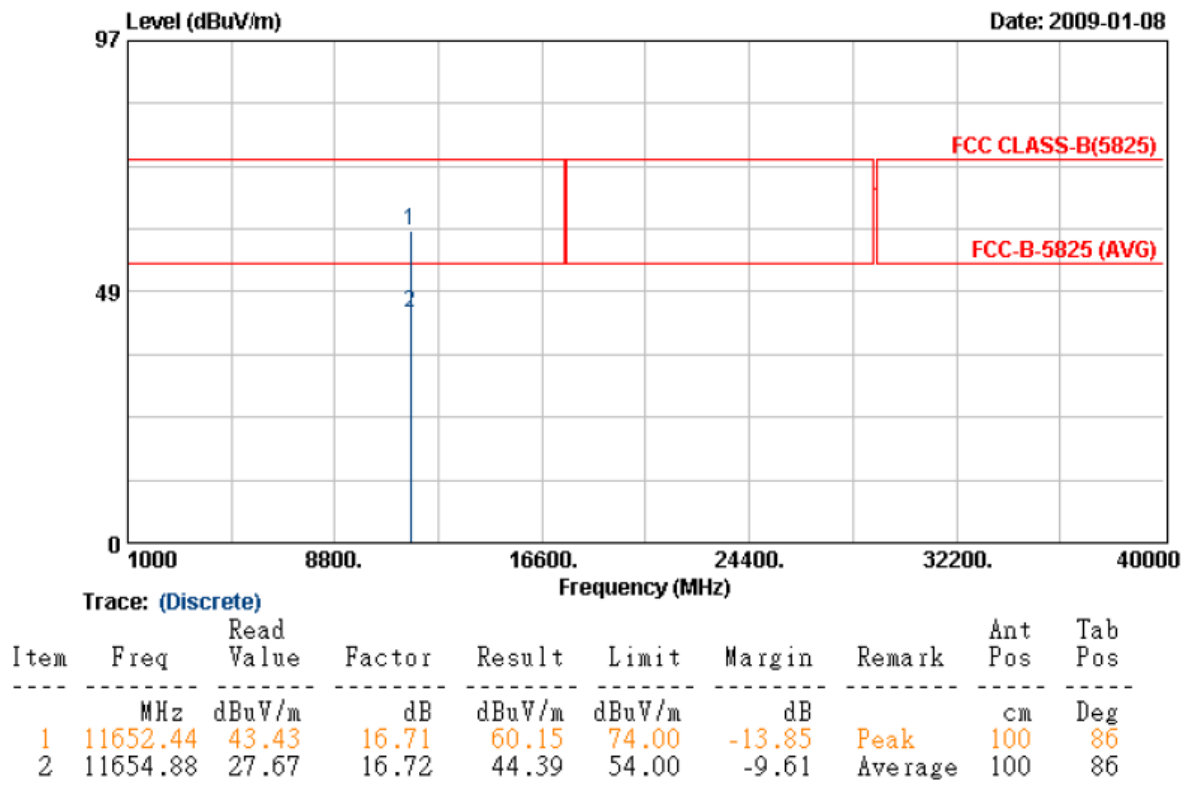
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11653.60	29.15	16.72	45.87	54.00	-8.13	Average	150	183
2	11653.84	46.96	16.72	63.68	74.00	-10.32	Peak	150	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 4	: 802.11a, CH165	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

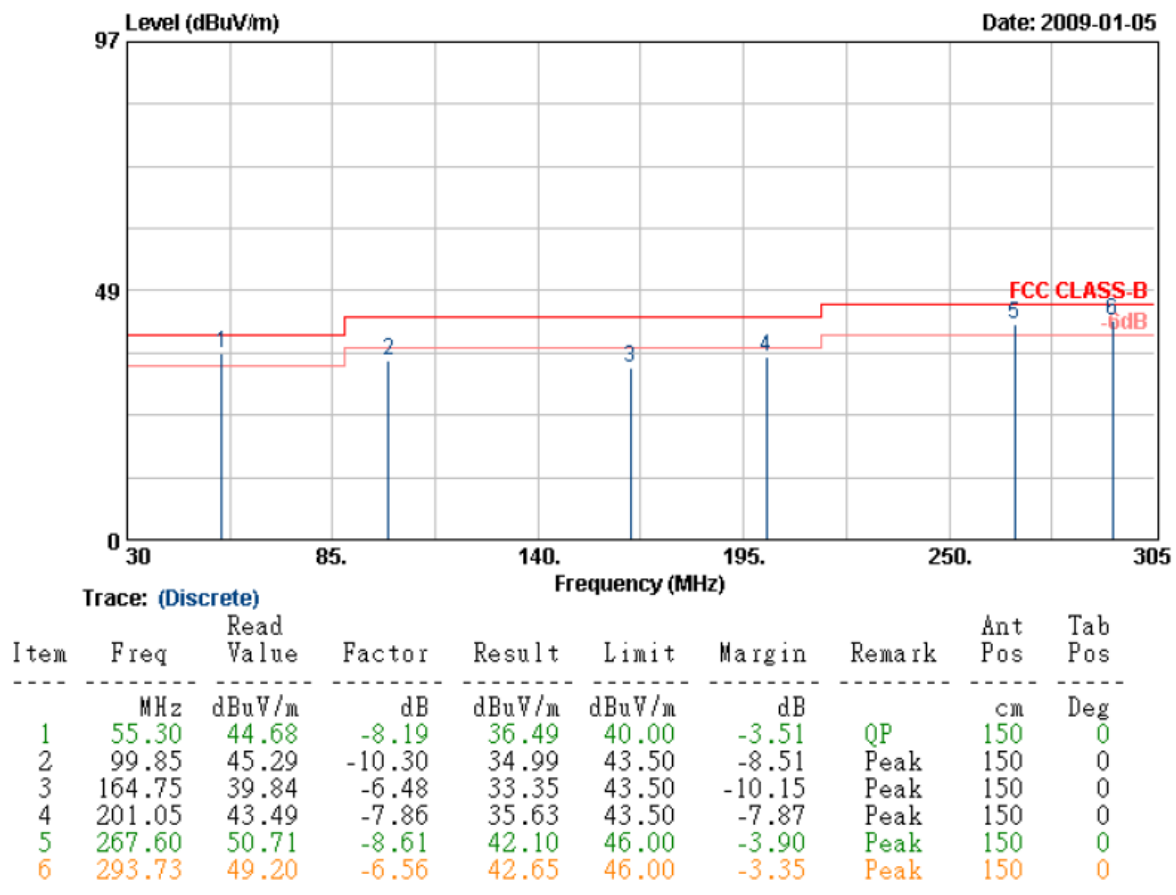


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 75 %

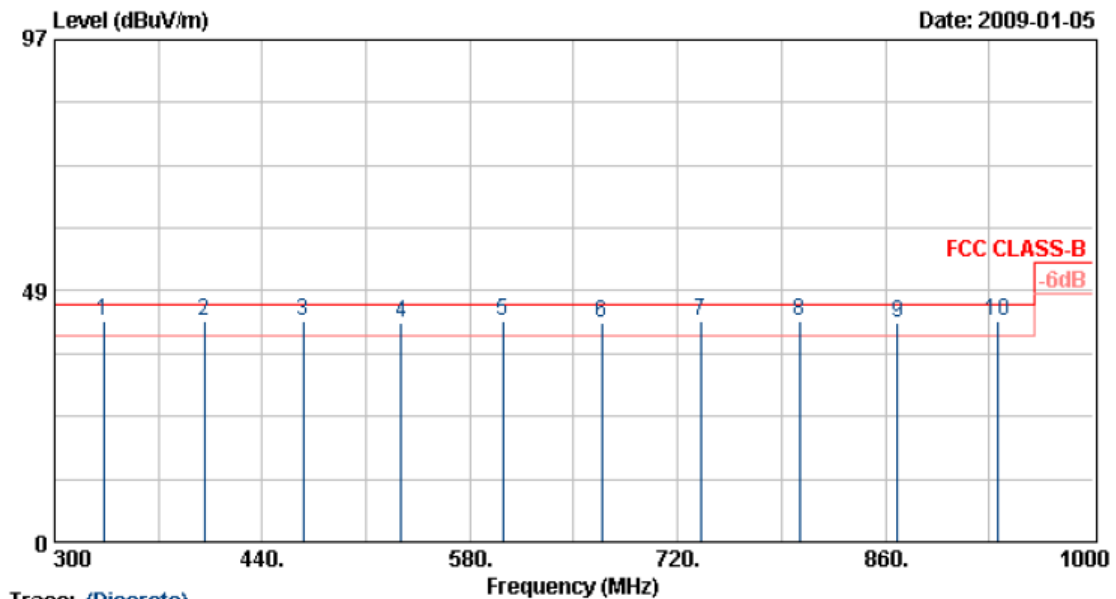


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 75 %

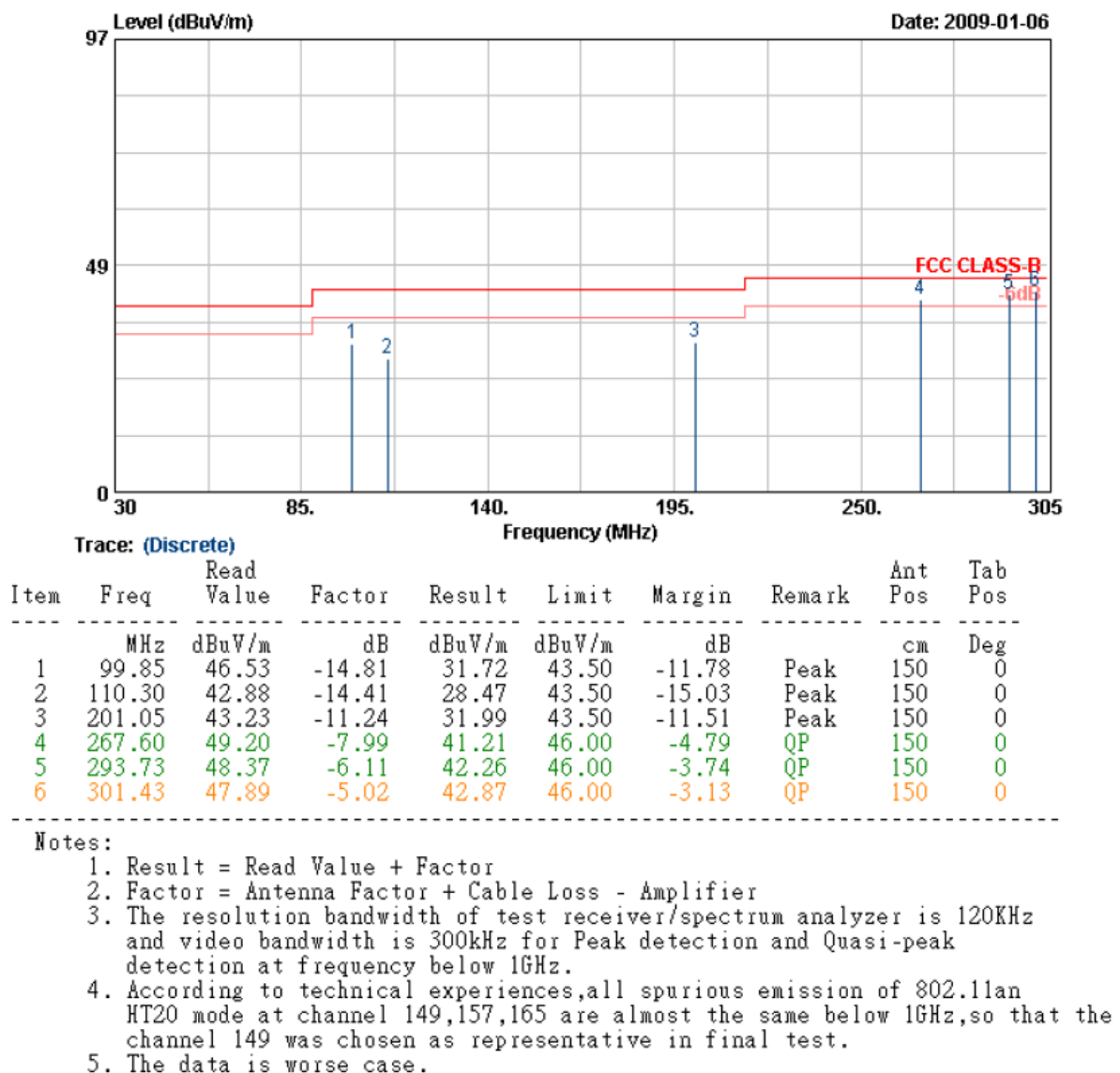


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

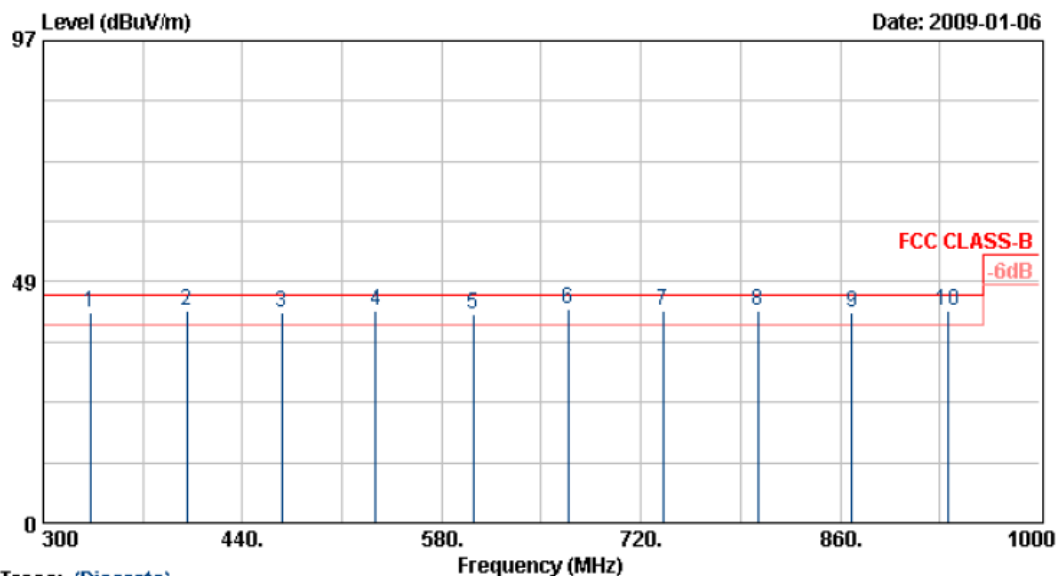


Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 75 %





Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 23 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

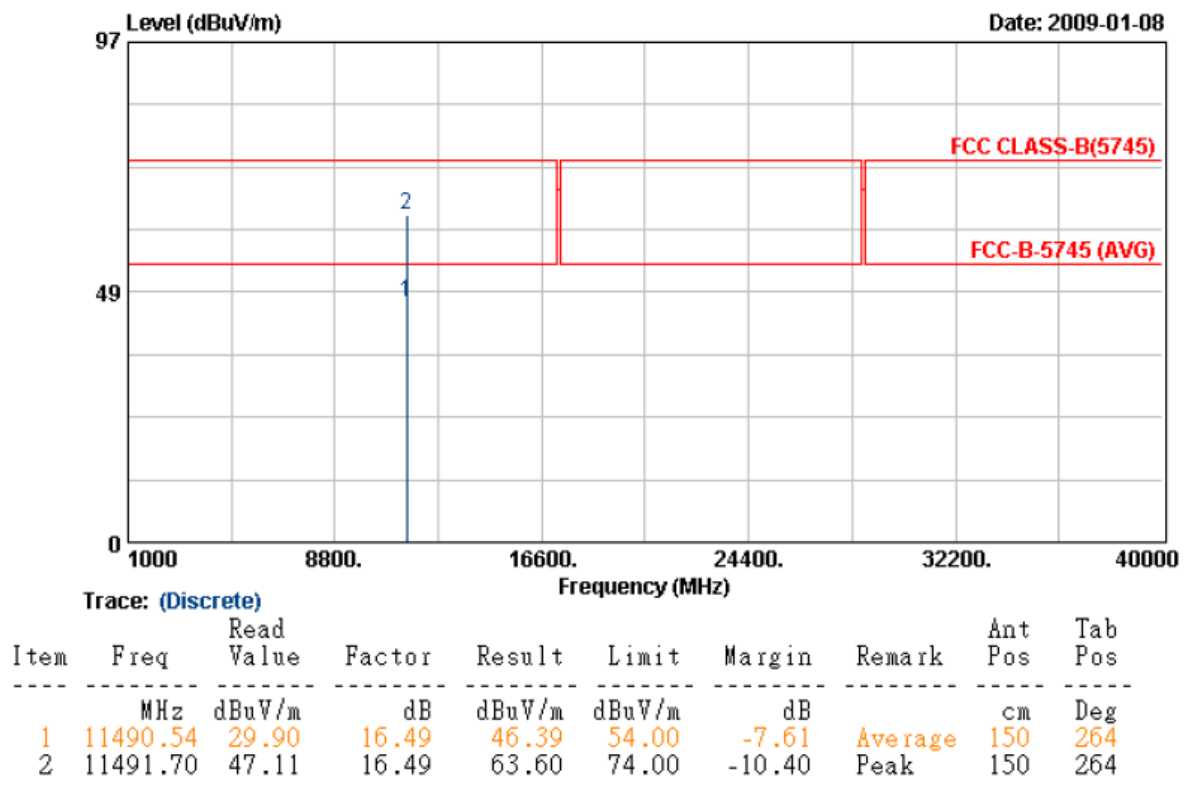
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	332.90	48.10	-5.74	42.36	46.00	-3.64	QP	100	0
2	400.80	44.97	-2.13	42.84	46.00	-3.16	QP	100	0
3	467.30	46.23	-3.74	42.49	46.00	-3.51	QP	100	0
4	533.80	44.84	-2.29	42.55	46.00	-3.45	QP	100	0
5	602.40	39.87	2.25	42.12	46.00	-3.88	QP	100	0
6	668.90	39.98	2.92	42.90	46.00	-3.10	QP	100	0
7	735.40	39.17	3.69	42.86	46.00	-3.14	QP	100	0
8	801.90	37.73	4.85	42.58	46.00	-3.42	QP	100	0
9	868.40	36.98	5.29	42.27	46.00	-3.73	QP	100	0
10	936.30	35.44	7.35	42.79	46.00	-3.21	QP	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 149, 157, 165 are almost the same below 1GHz, so that the channel 149 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

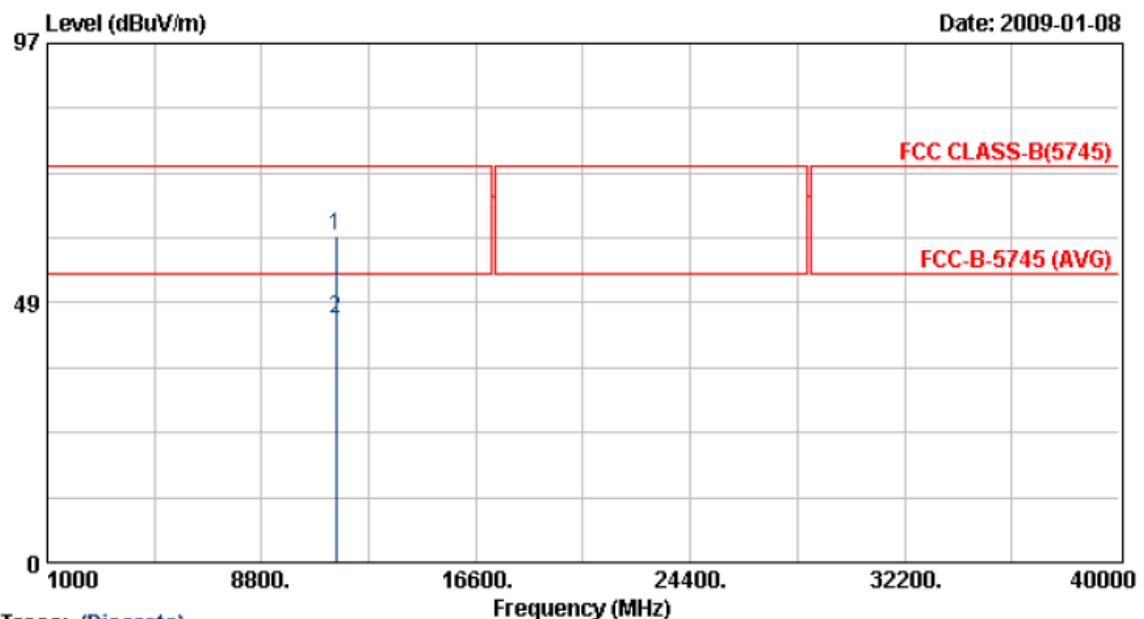


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH149	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

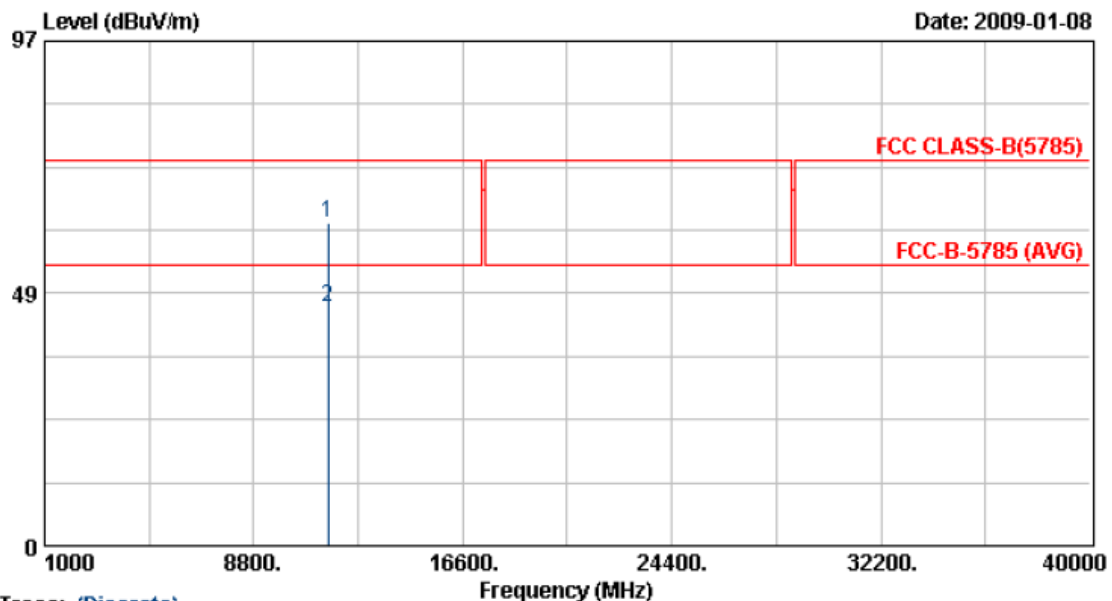
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11490.34	44.46	16.49	60.95	74.00	-13.05	Peak	150	265
2	11490.40	28.83	16.49	45.33	54.00	-8.67	Average	150	265

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH157	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



Trace: (Discrete)

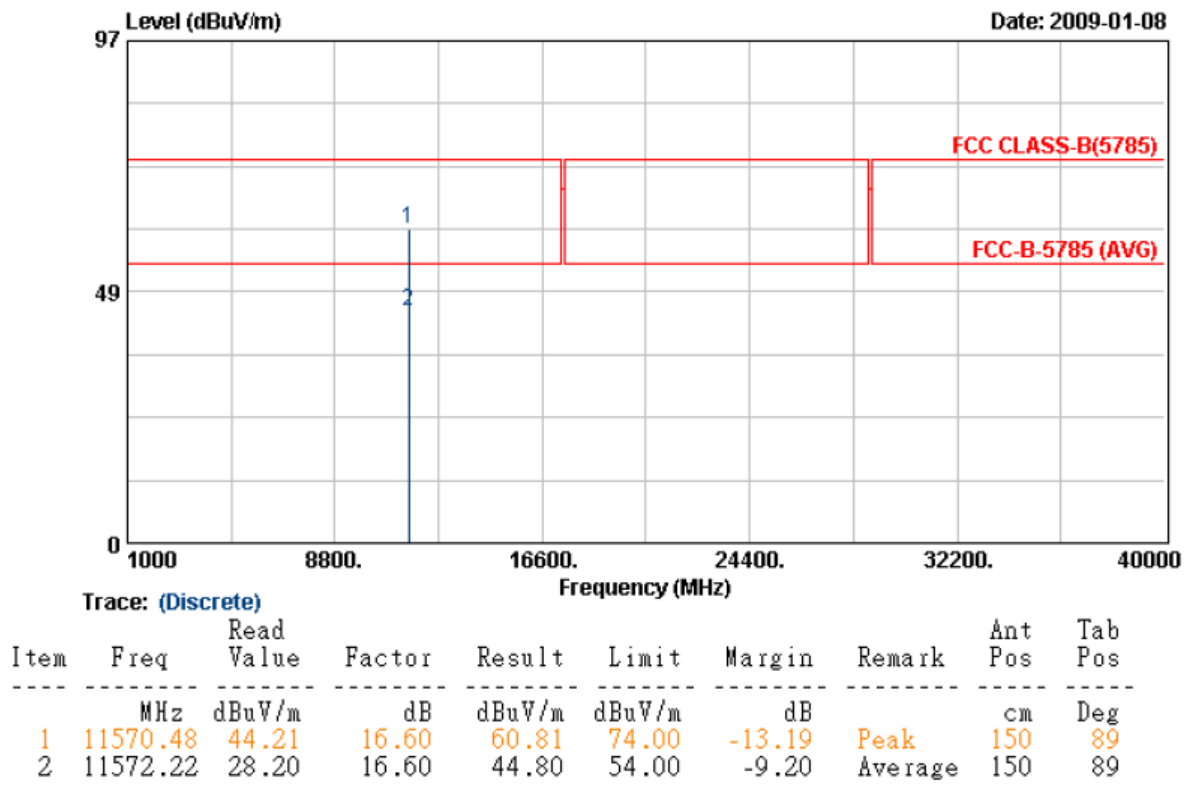
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11569.56	45.59	16.60	62.19	74.00	-11.81	Peak	150	90
2	11569.66	29.09	16.60	45.69	54.00	-8.31	Average	150	90

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH157	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

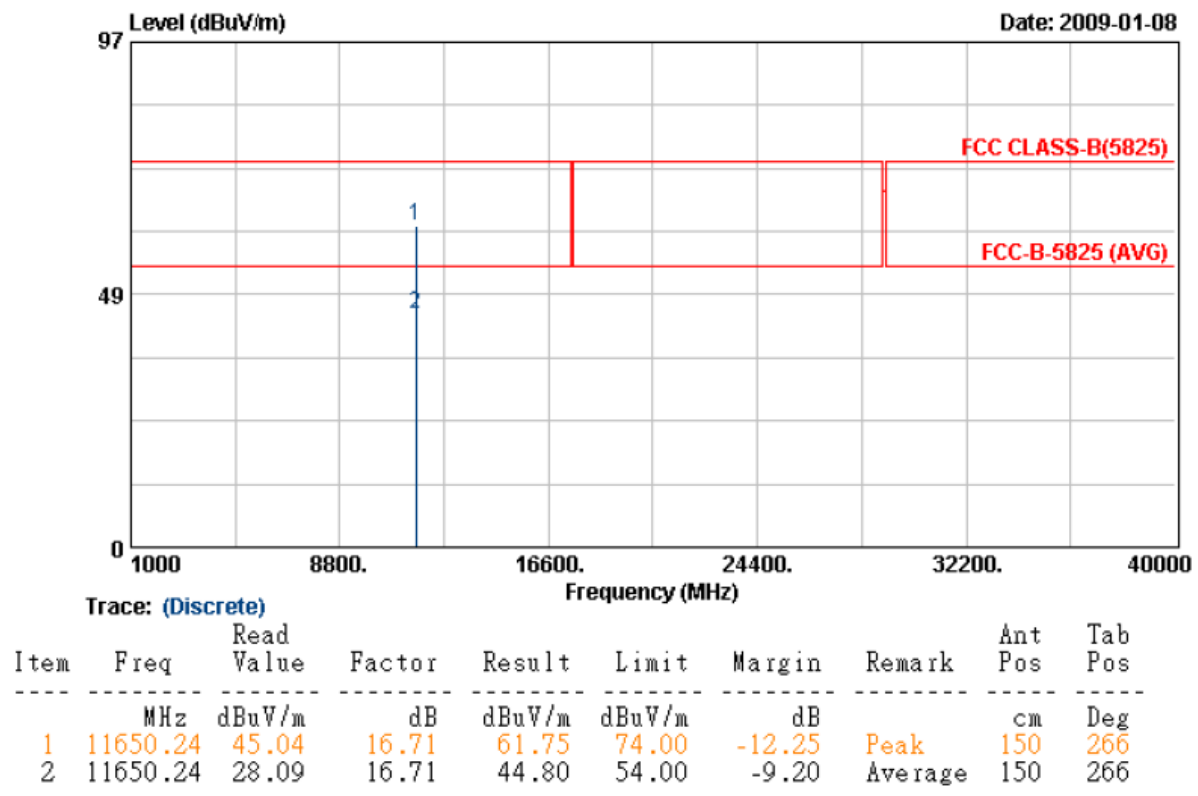


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 5	: 802.11an HT20, CH165	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

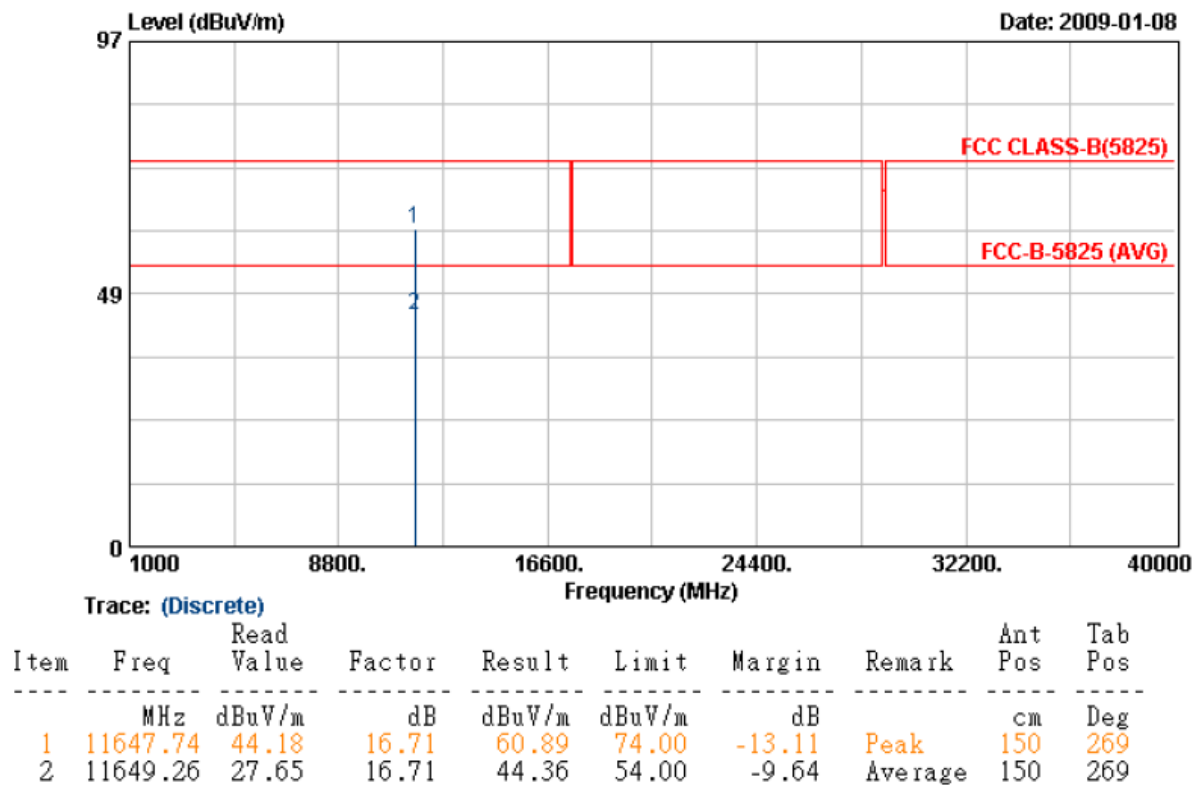


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 5	: 802.11an HT20, CH165	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

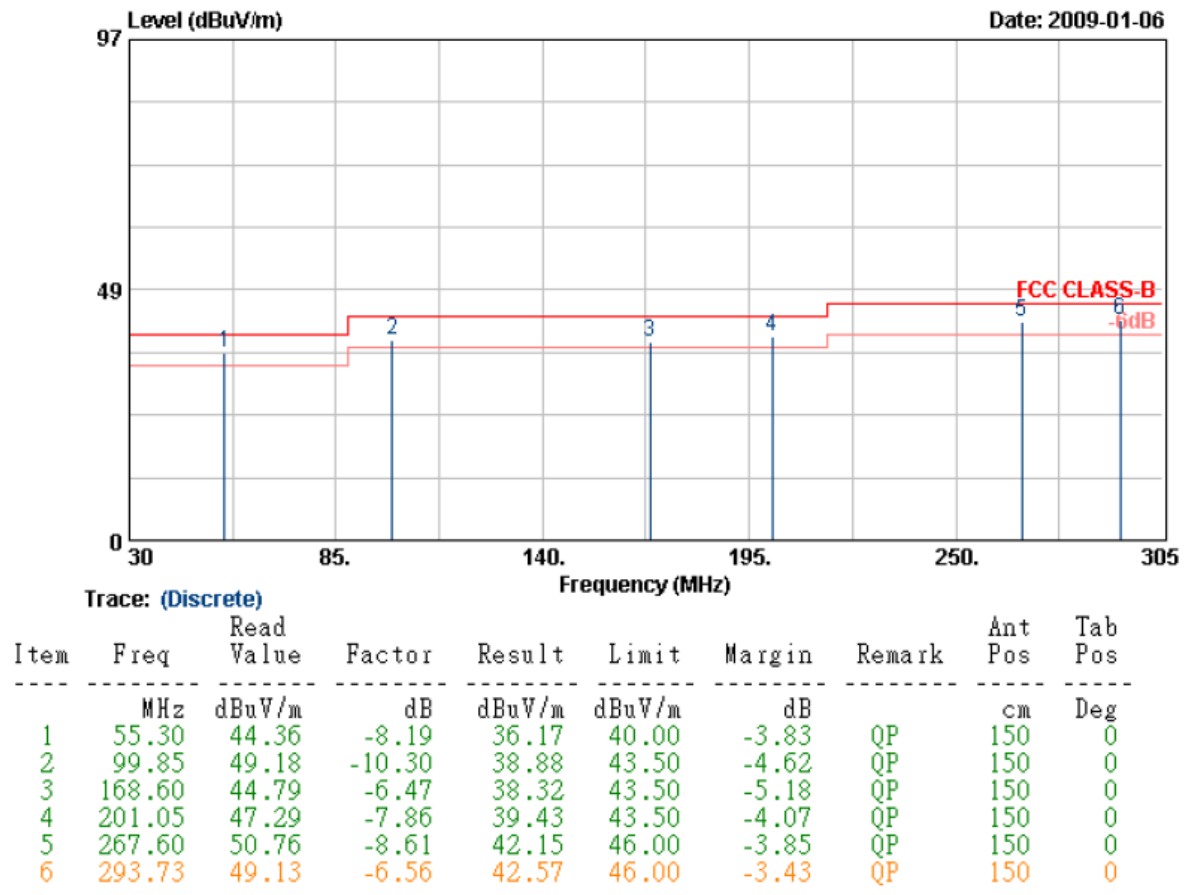


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 75 %

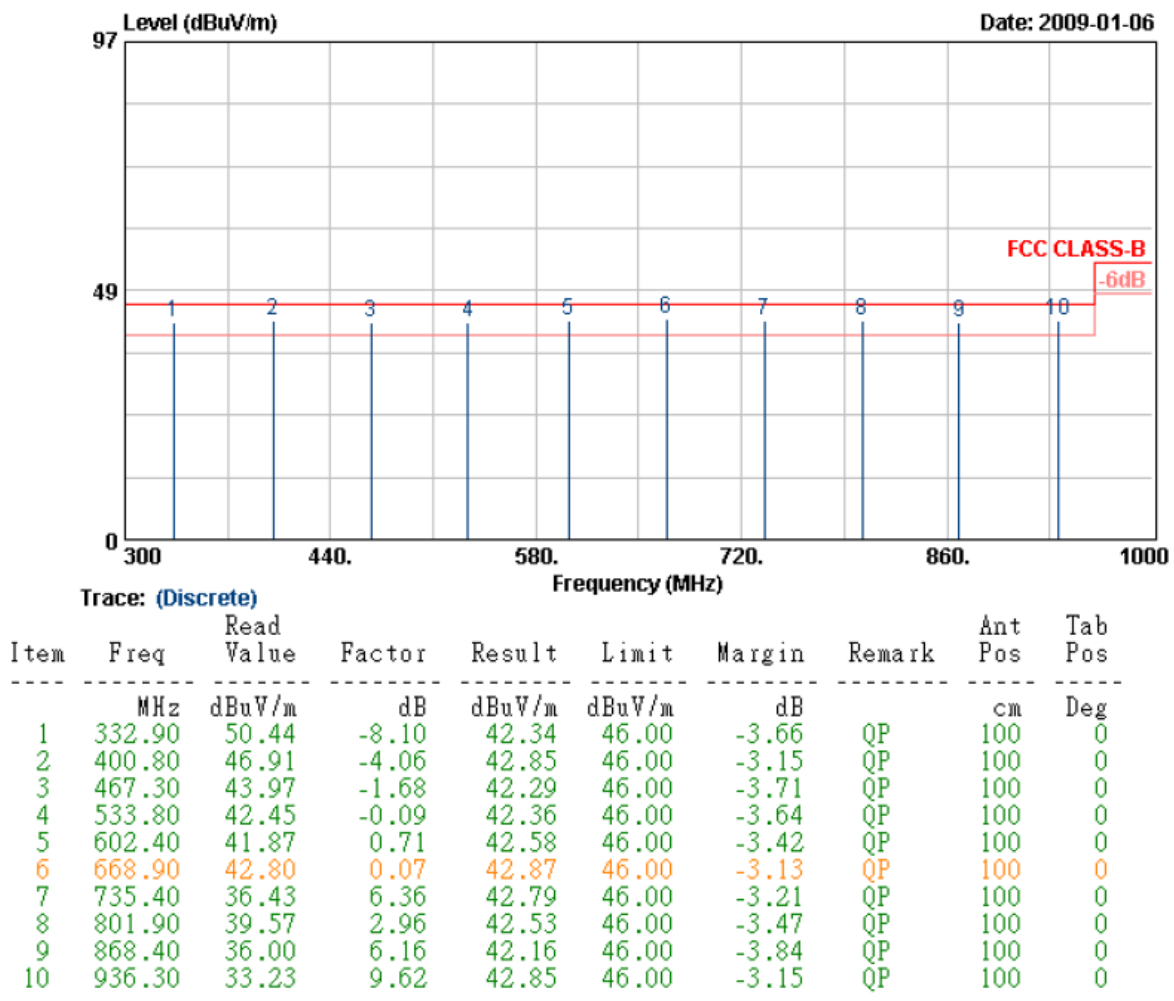


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 75 %

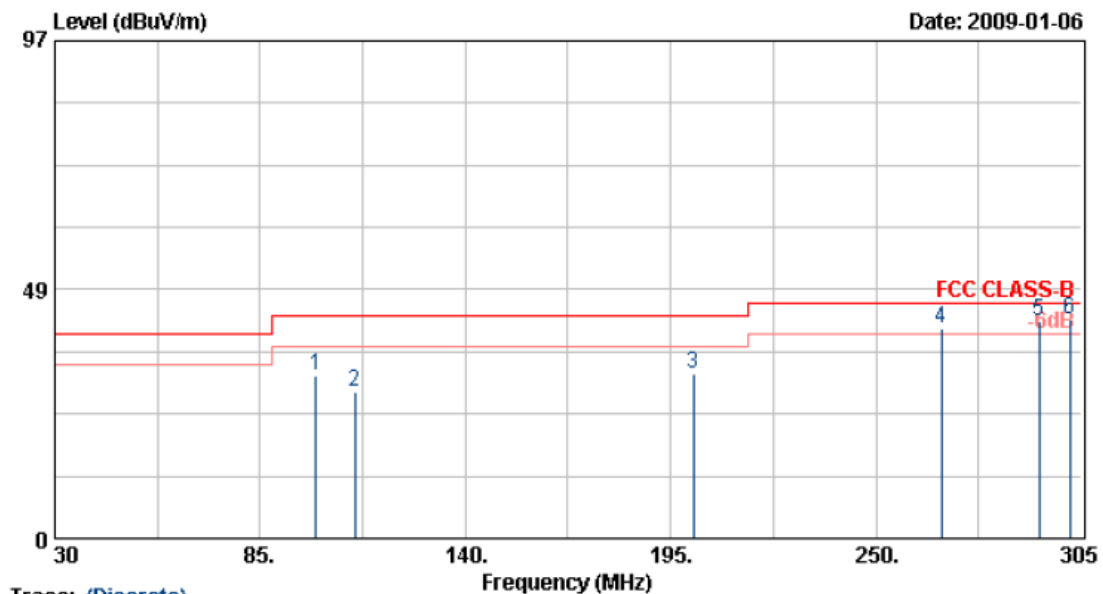


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 75 %



Trace: (Discrete)

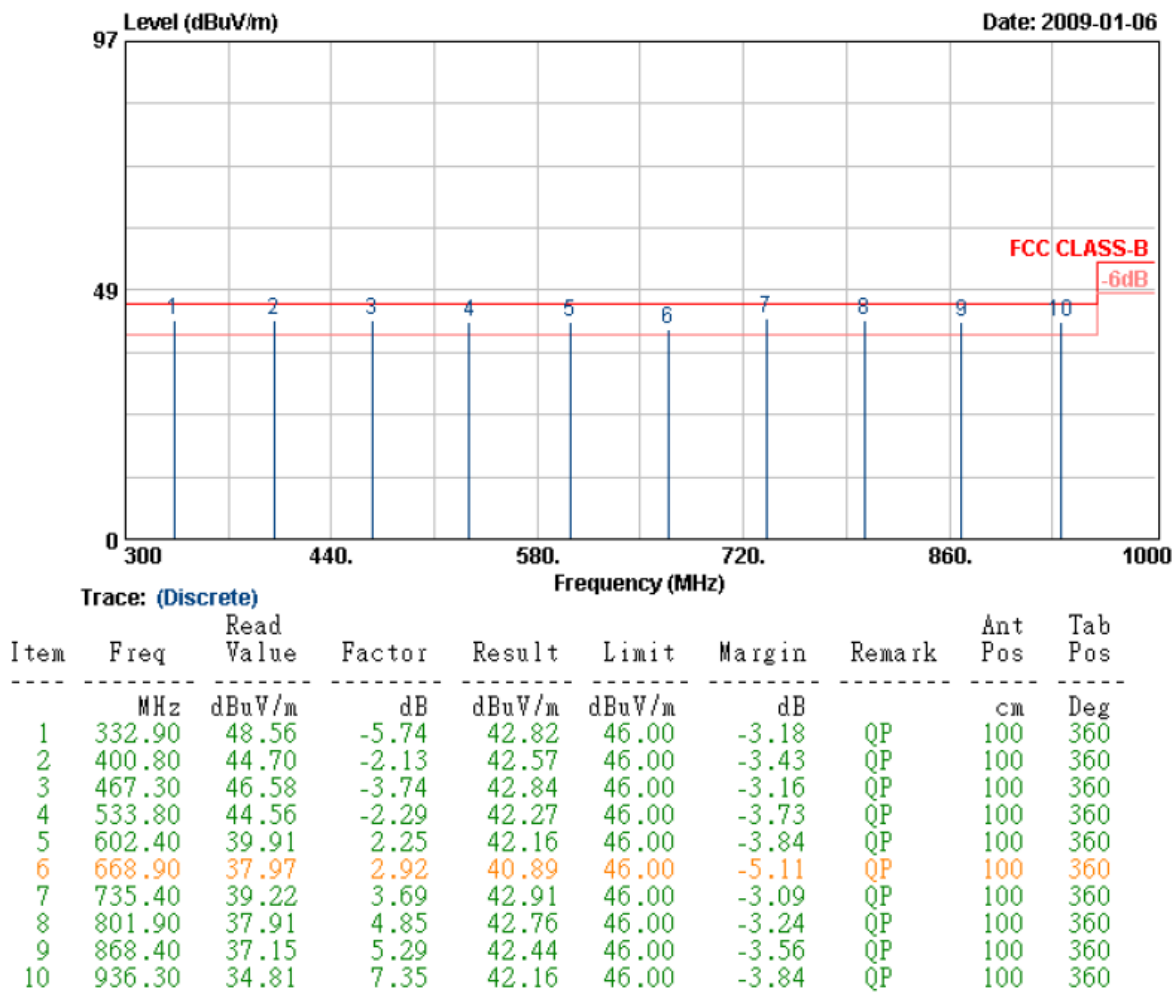
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	99.85	46.72	-14.81	31.91	43.50	-11.59	Peak	150	0
2	110.30	42.88	-14.41	28.47	43.50	-15.03	Peak	150	0
3	201.05	43.39	-11.24	32.15	43.50	-11.35	Peak	150	0
4	267.60	48.74	-7.99	40.75	46.00	-5.25	QP	150	0
5	293.73	48.47	-6.11	42.36	46.00	-3.64	QP	150	0
6	301.98	47.79	-5.00	42.79	46.00	-3.21	QP	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 23 °C
Memo	:	Humidity	: 75 %

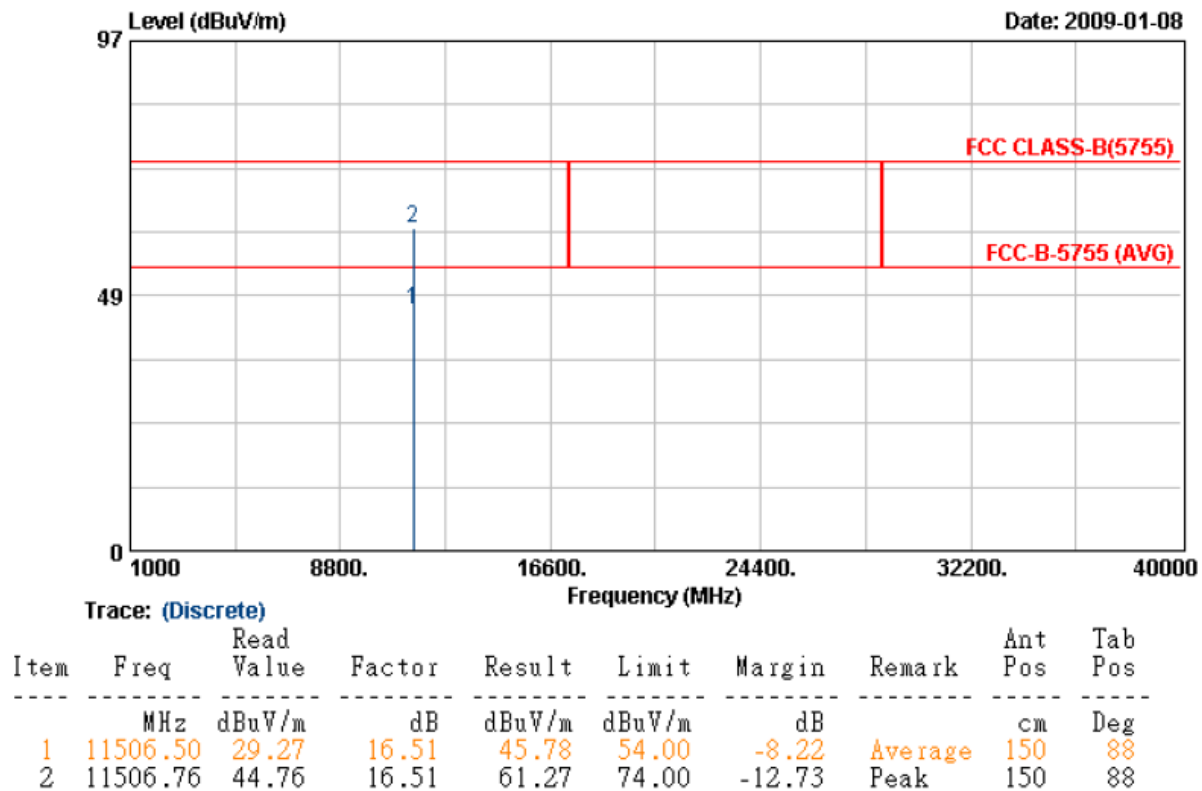


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an mode at channel 151, 155, 159 are almost the same below 1GHz, so that the channel 151 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

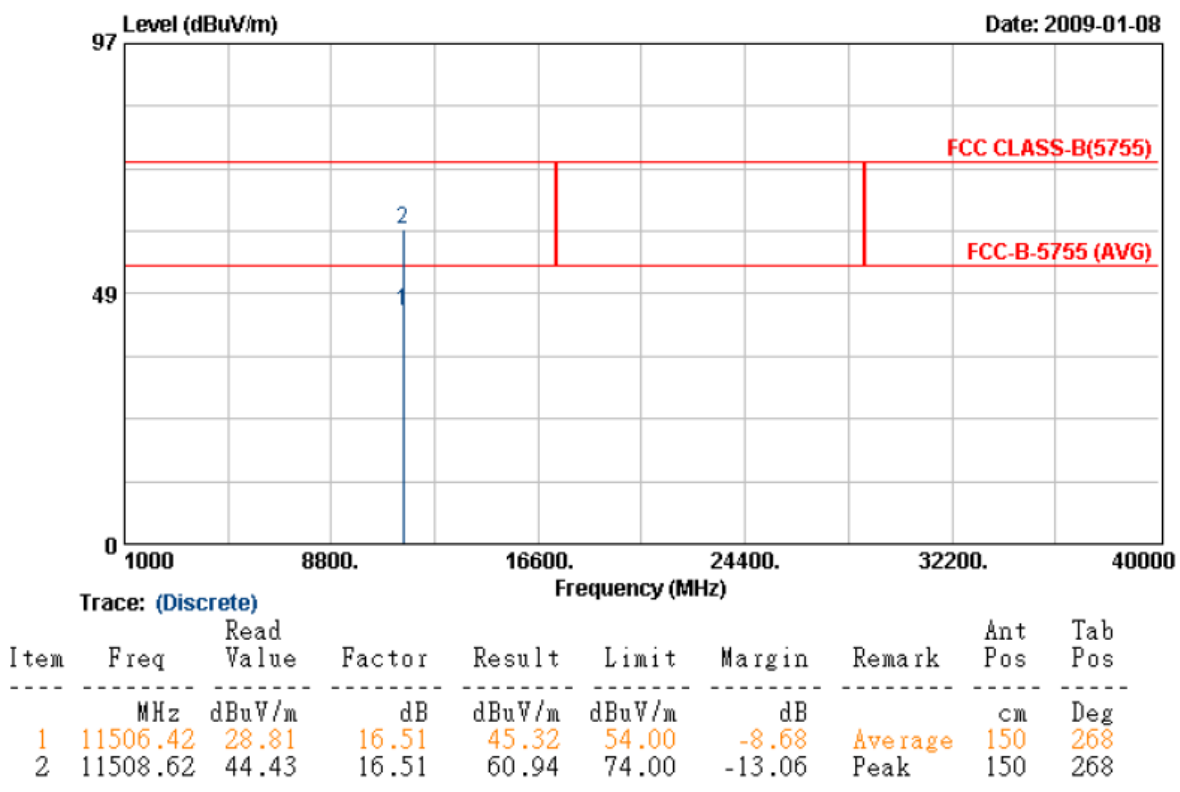


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH151	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

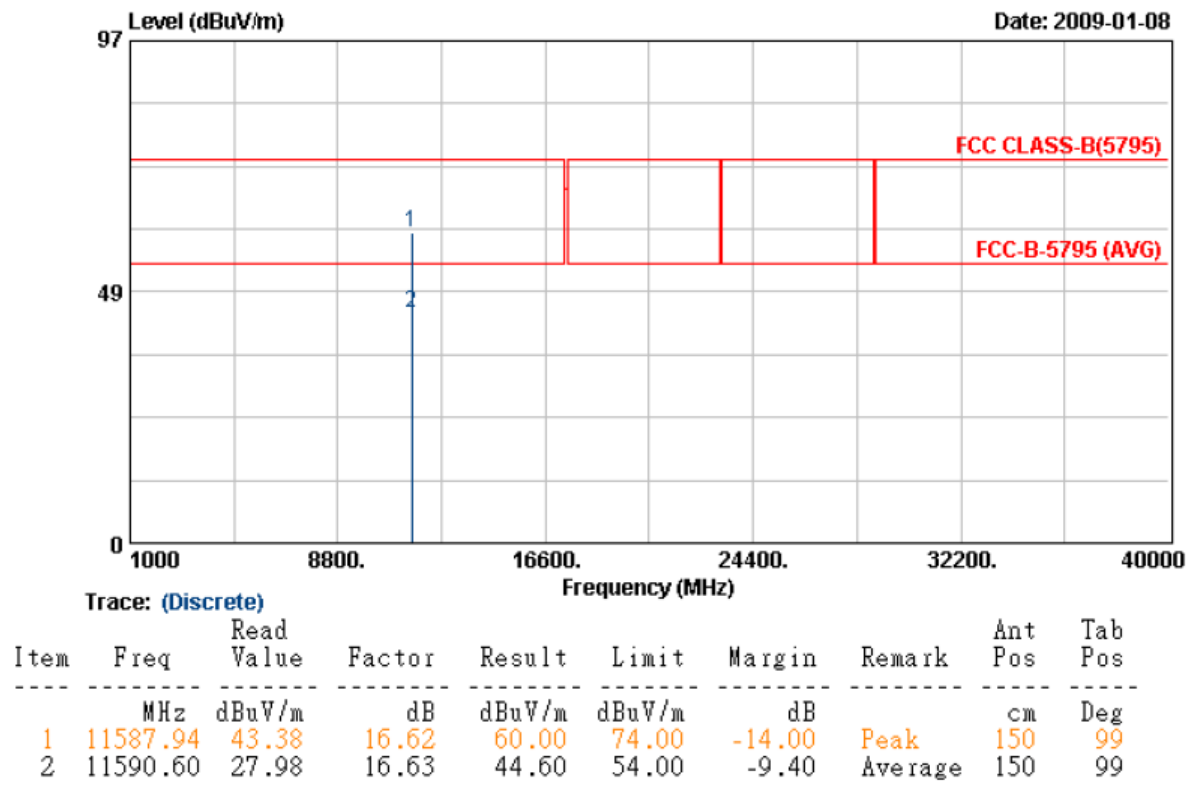


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 6	: 802.11an HT40, CH159	Temperature	: 25 °C
Memo	:	Humidity	: 70 %

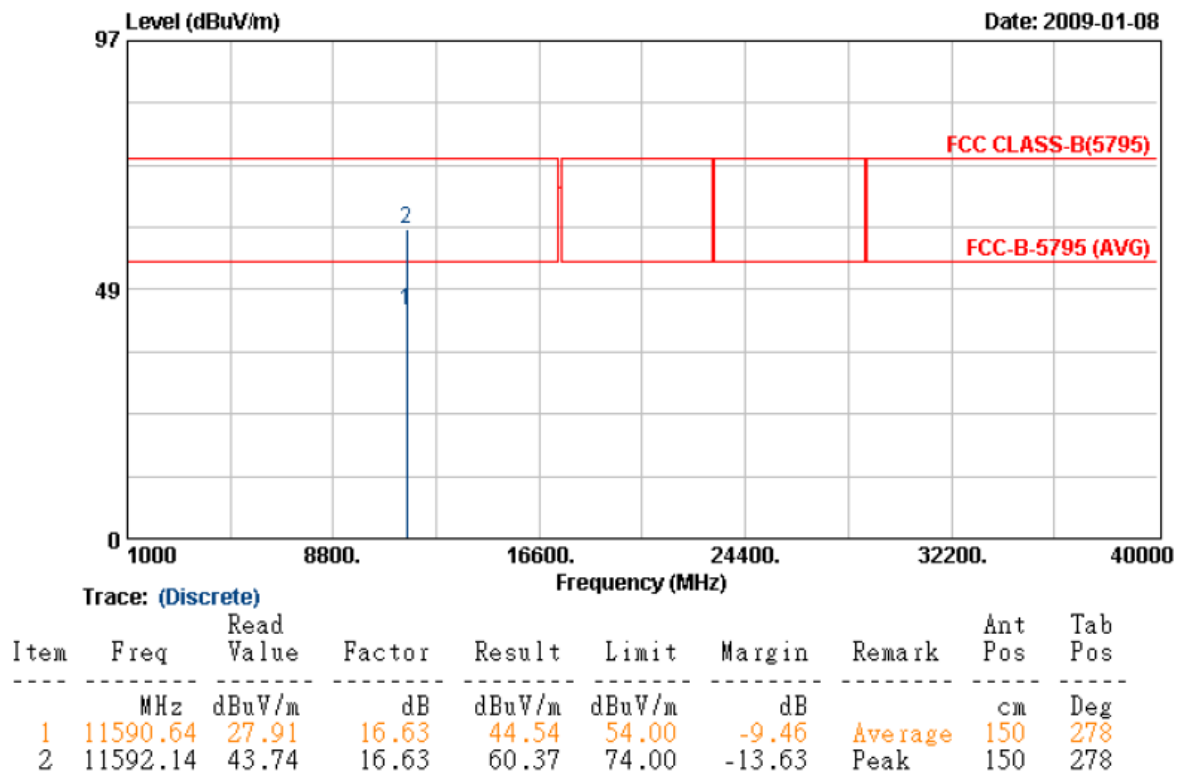


Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 6	: 802.11an HT40, CH159	Temperature	: 25 °C
Memo	:	Humidity	: 70 %



Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Test engineer:



6. 6dB Bandwidth Measurement Data

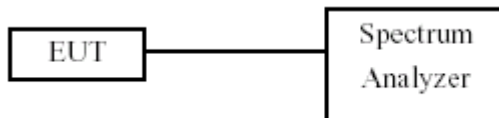
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



6.5 Test Result and Data

Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
			Ant1	Ant2	Ant3
802.11b (11Mbps)	01	2412	12.5	11.9	12.0
	06	2437	11.8	11.9	11.9
	11	2462	11.9	12.7	11.9
802.11g (54Mbps)	01	2412	16.4	16.5	16.5
	06	2437	16.5	16.4	16.4
	11	2462	16.5	16.5	16.5
802.11n HT20 (104Mbps)	01	2412	17.7	17.8	17.7
	06	2437	17.7	17.9	17.7
	11	2462	17.8	17.8	17.7
802.11n HT40 (108Mbps)	03	2422	36.6	36.6	36.6
	06	2437	36.6	36.6	36.6
	09	2452	36.6	36.6	36.6

Test Date: Jan. 09, 2009

Temperature: 25

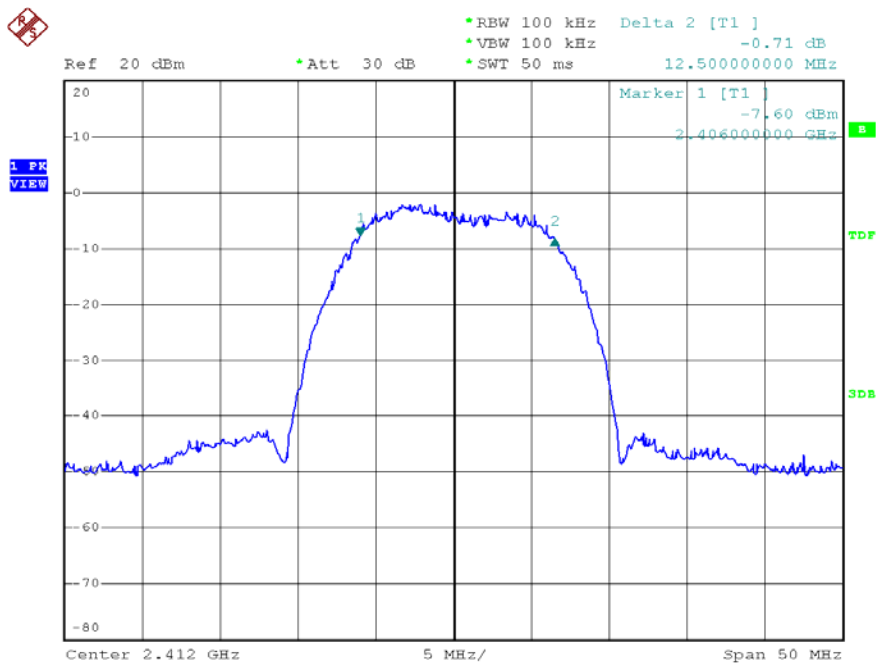
Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		
			Ant1	Ant2	Ant3
802.11a (54Mbps)	149	5745	16.4	16.4	16.5
	157	5785	16.4	16.4	16.5
	165	5825	16.4	16.5	16.5
802.11an HT20 (104Mbps)	149	5745	17.6	17.8	17.7
	157	5785	17.6	17.7	17.6
	165	5825	17.6	17.7	17.6
802.11an HT40 (108Mbps)	151	5755	36.4	36.4	36.4
	159	5795	36.4	36.4	36.4

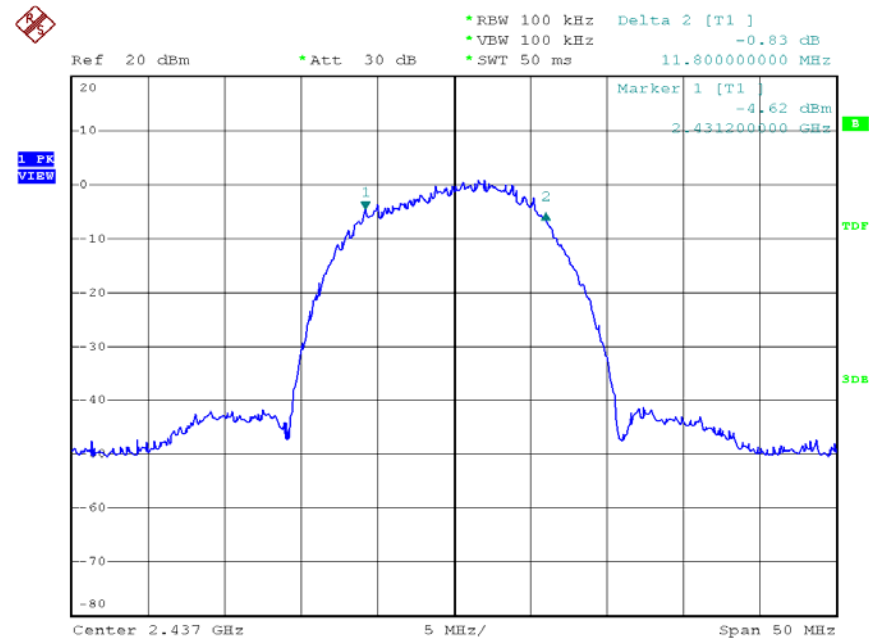


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



Date: 5.JAN.2009 13:47:51

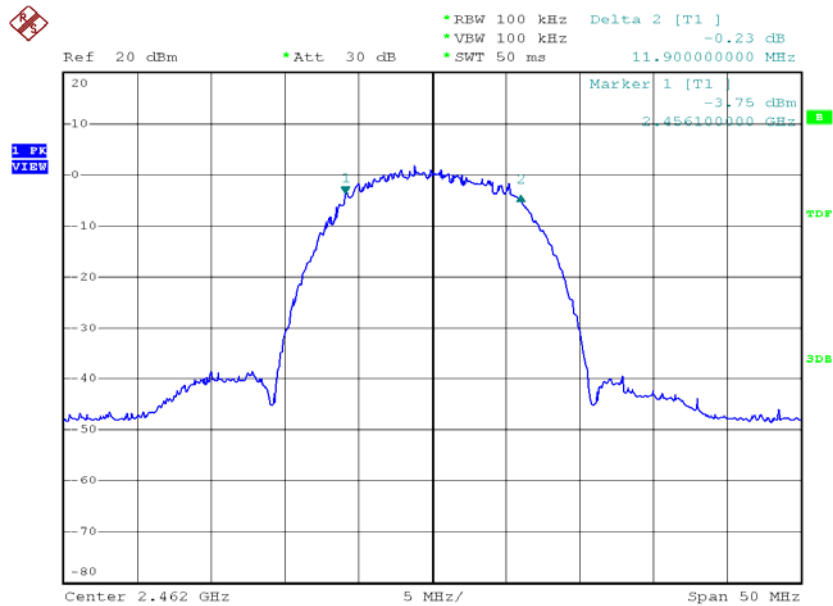
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



Date: 5.JAN.2009 13:57:08

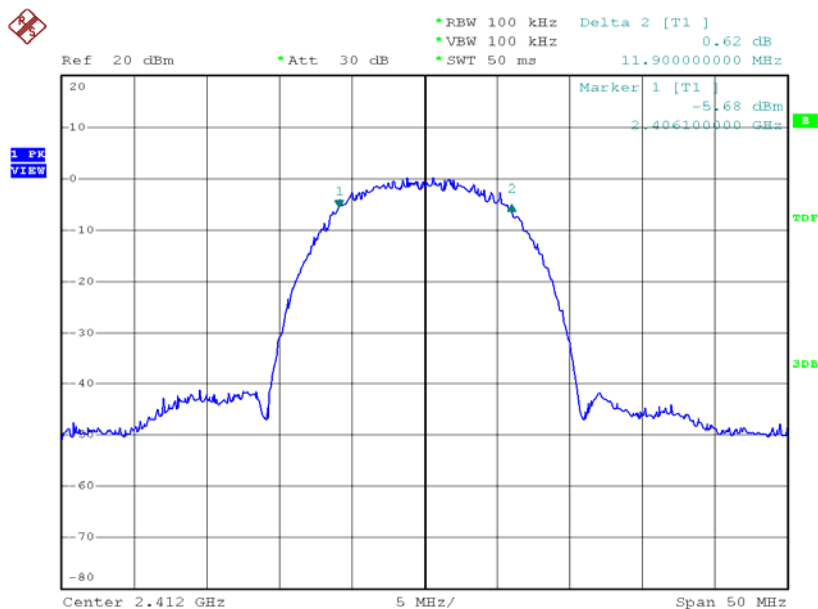


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



Date: 5.JAN.2009 14:09:07

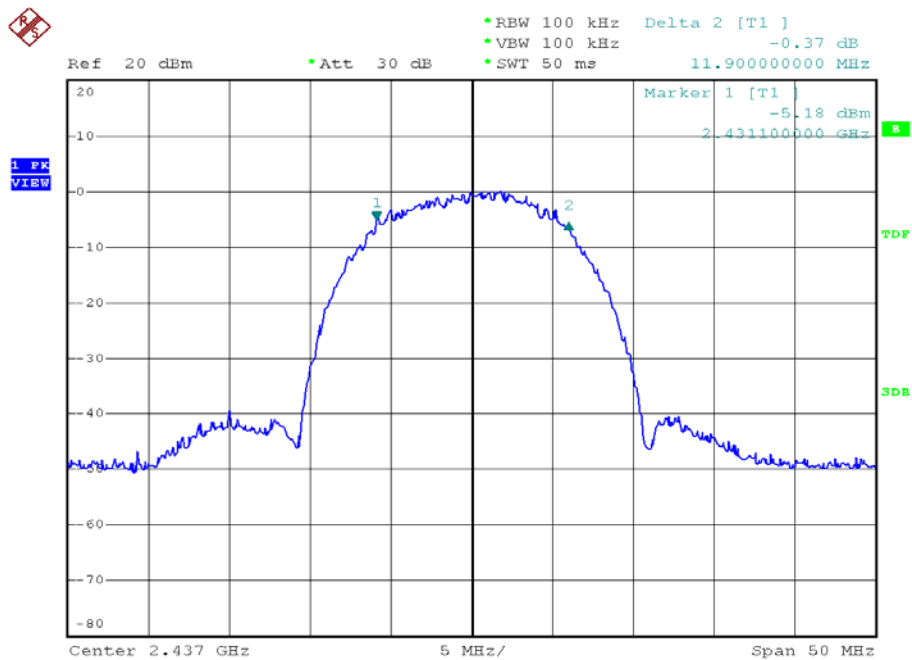
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



Date: 5.JAN.2009 13:40:49

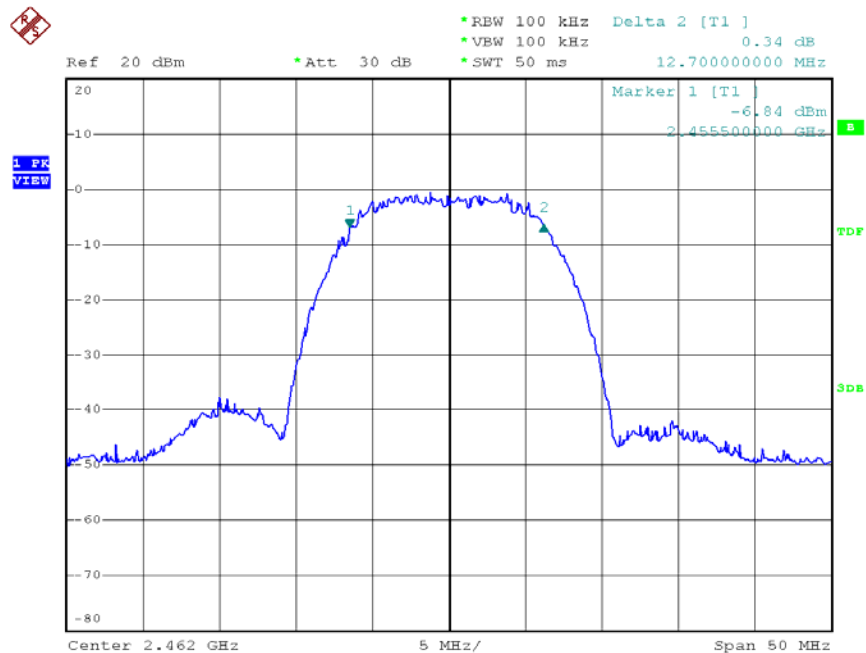


Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



Date: 5.JAN.2009 13:55:28

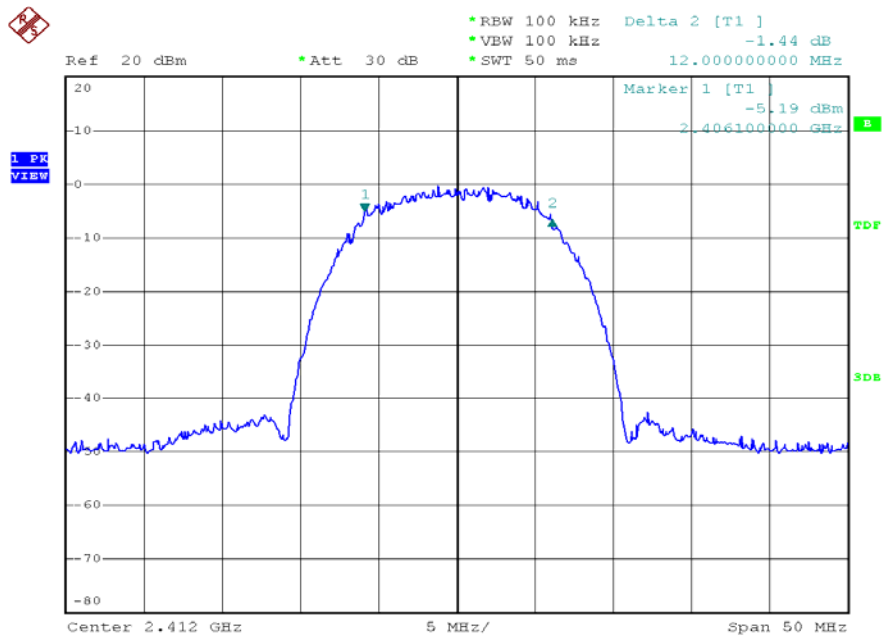
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



Date: 5.JAN.2009 14:10:48

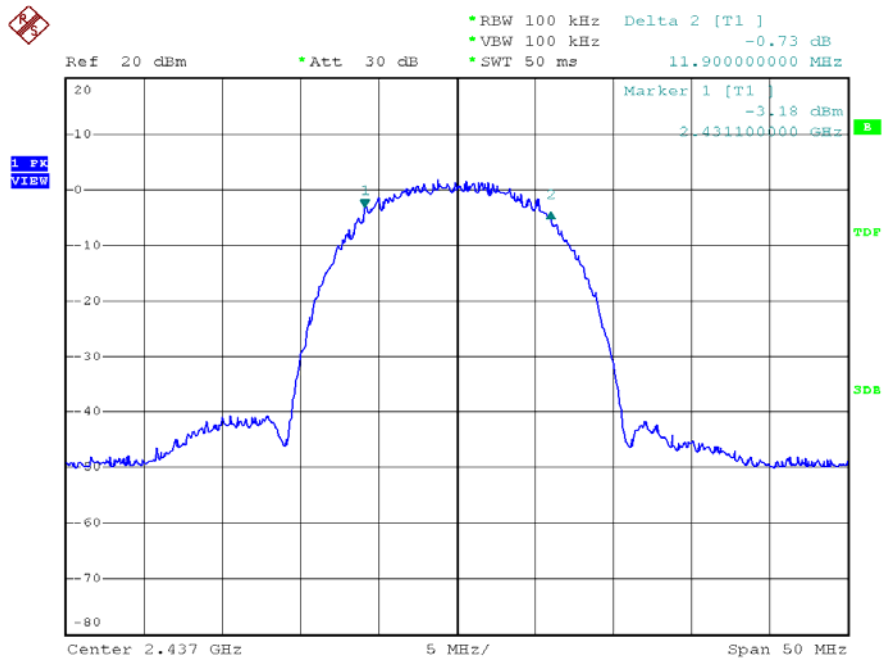


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 01



Date: 5.JAN.2009 13:49:48

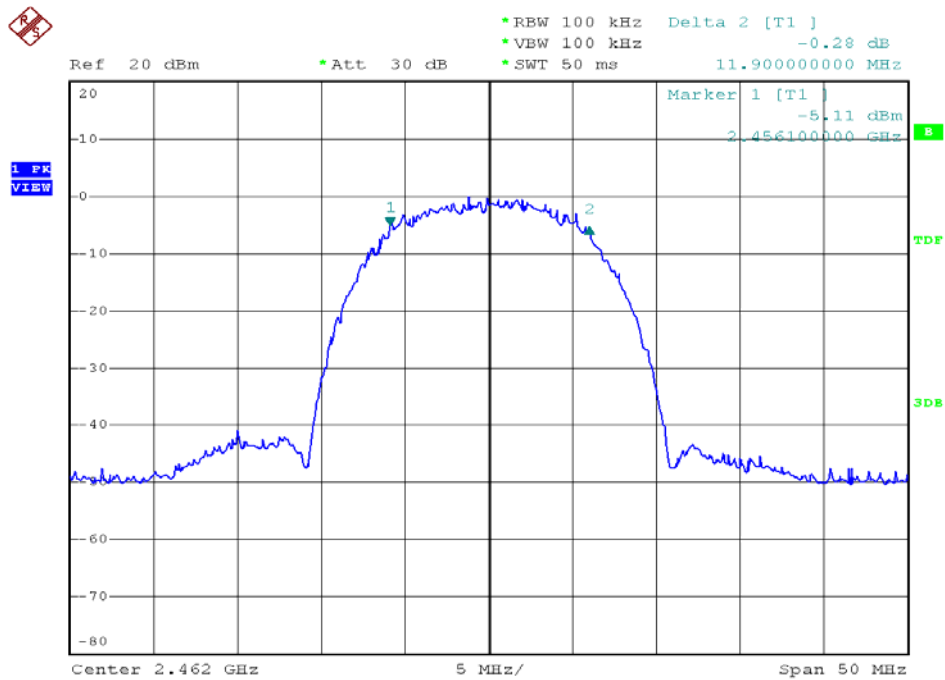
Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 06



Date: 5.JAN.2009 13:52:35

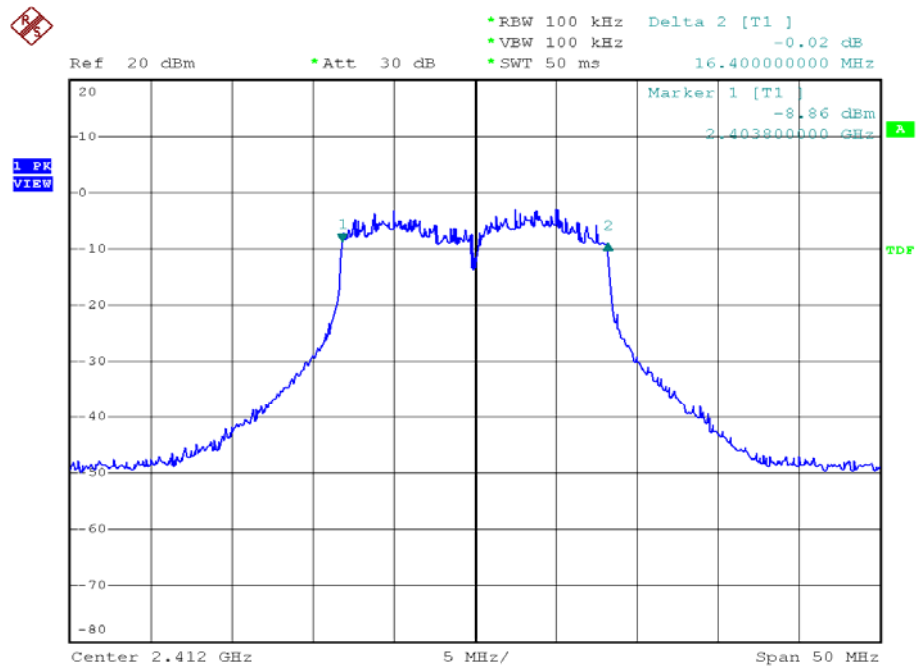


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 11



Date: 5.JAN.2009 14:12:27

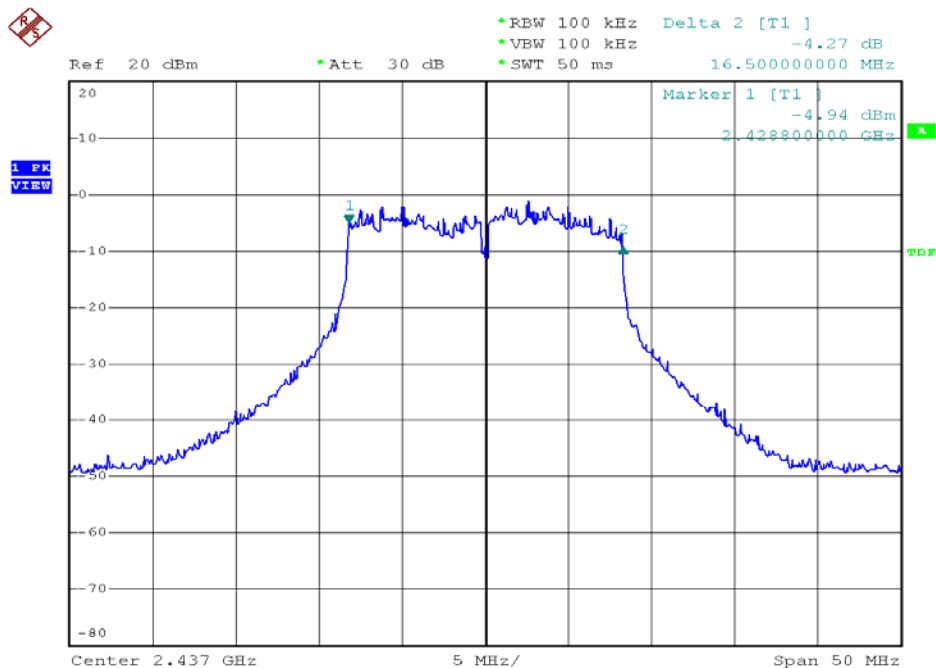
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



Date: 5.JAN.2009 21:17:14

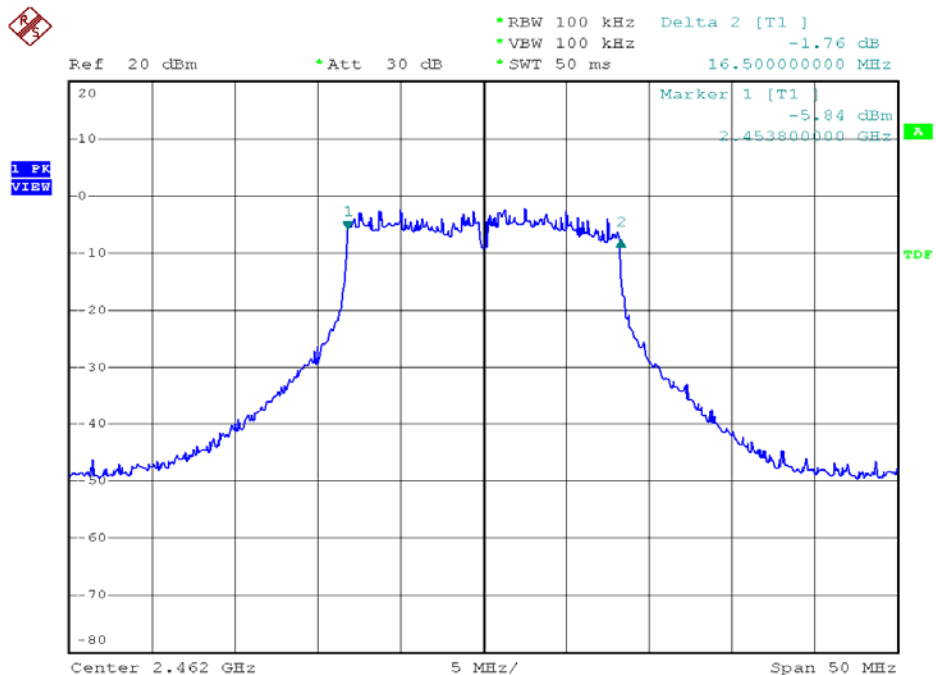


Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



Date: 5.JAN.2009 21:24:54

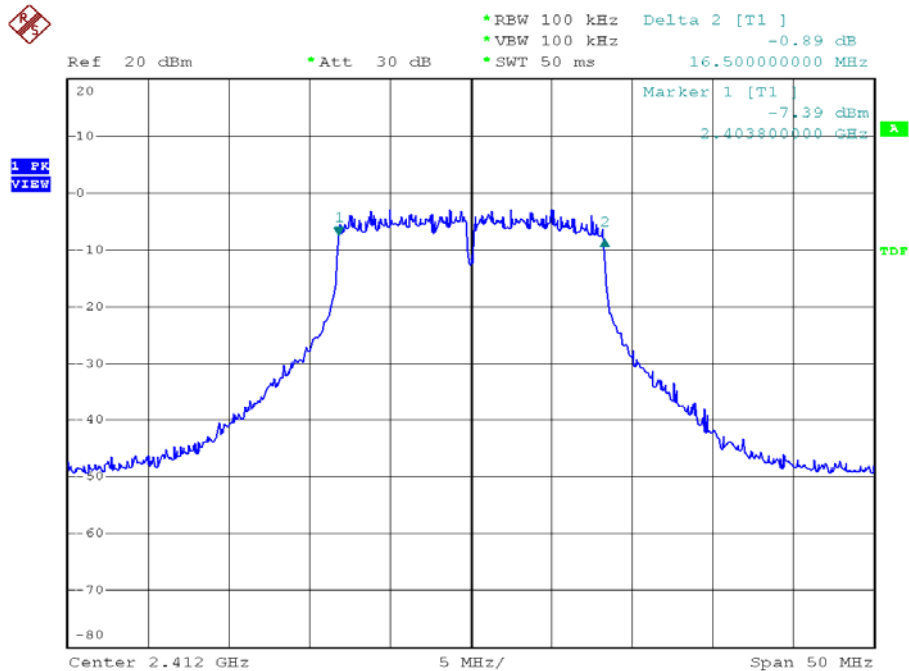
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



Date: 5.JAN.2009 21:36:38

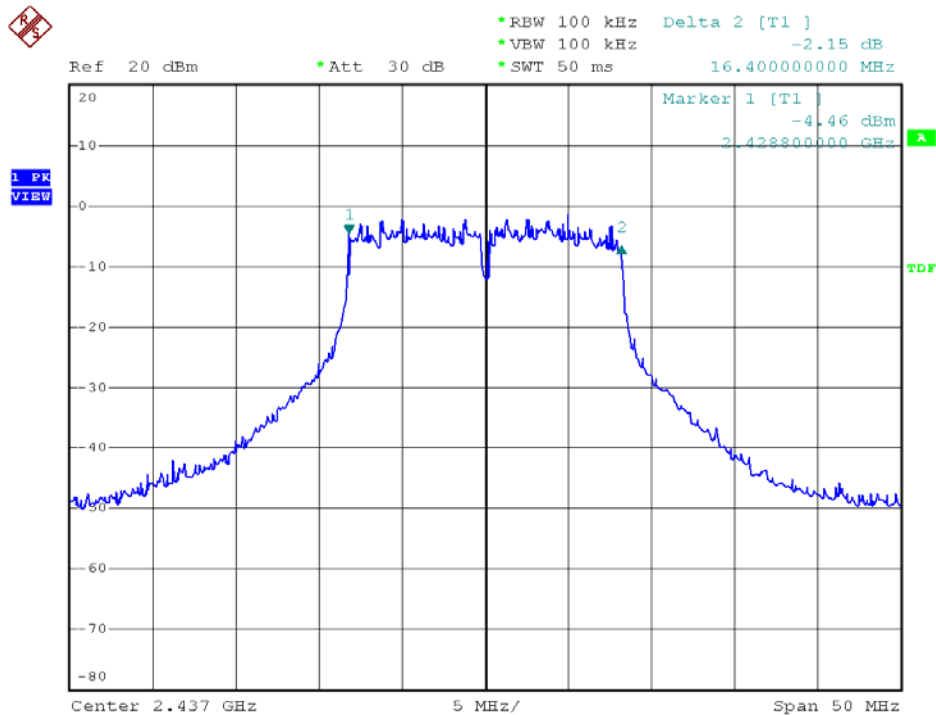


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



Date: 5.JAN.2009 21:15:20

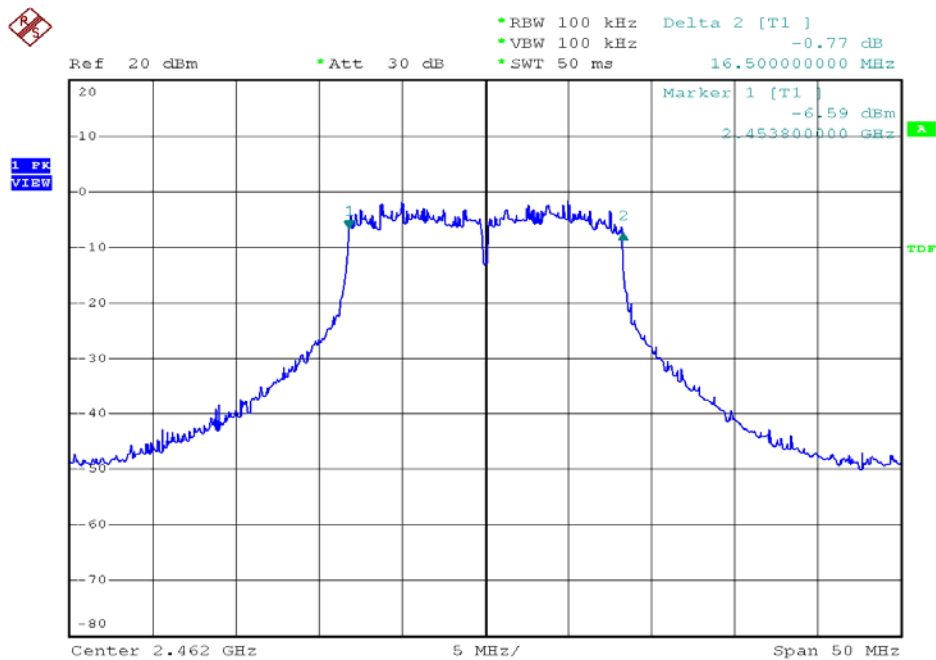
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



Date: 5.JAN.2009 21:22:47

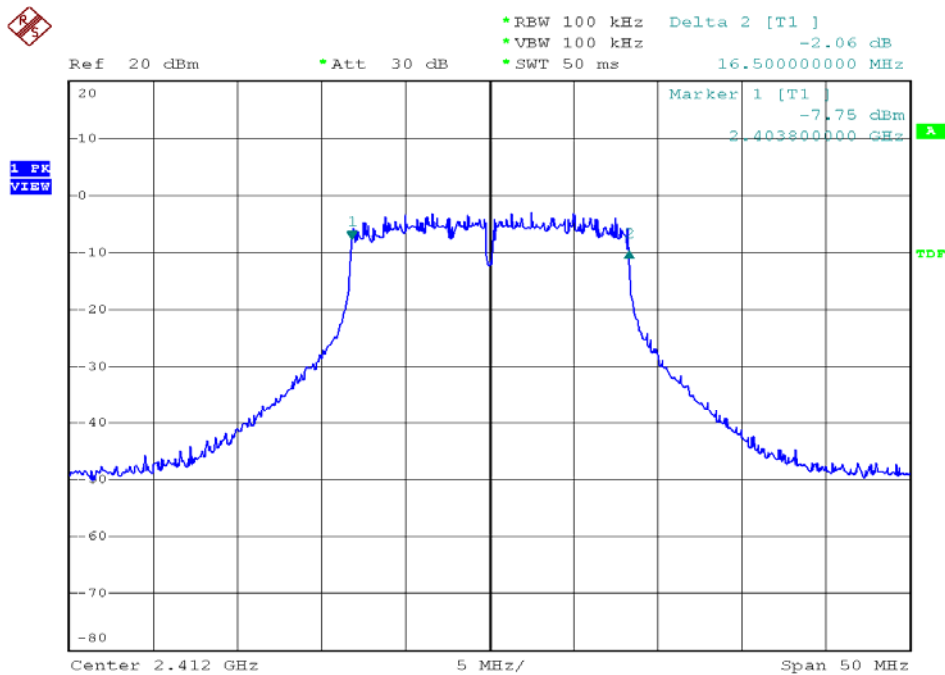


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



Date: 5.JAN.2009 21:34:29

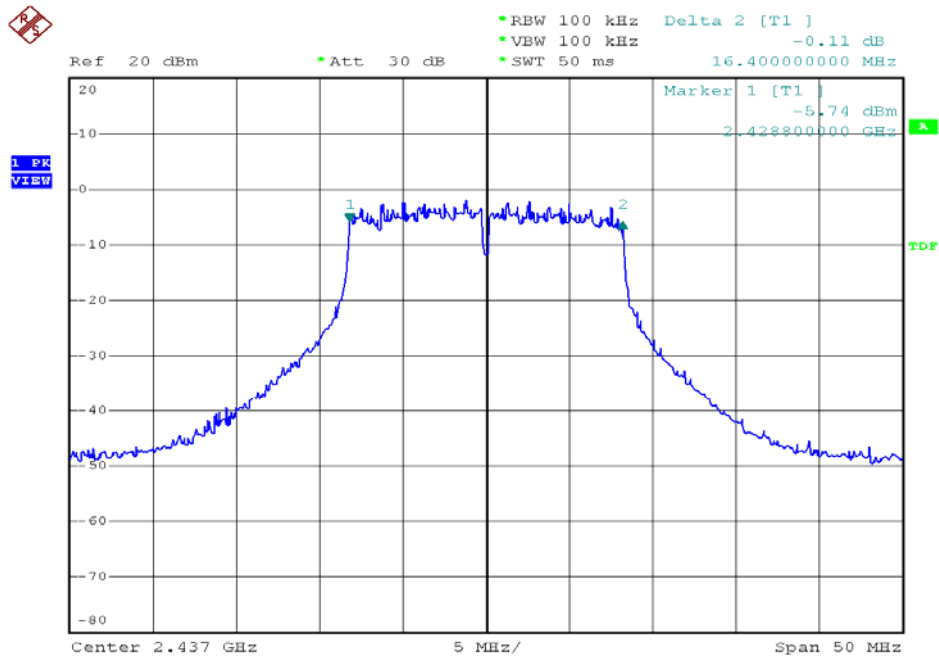
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 01



Date: 5.JAN.2009 21:13:25

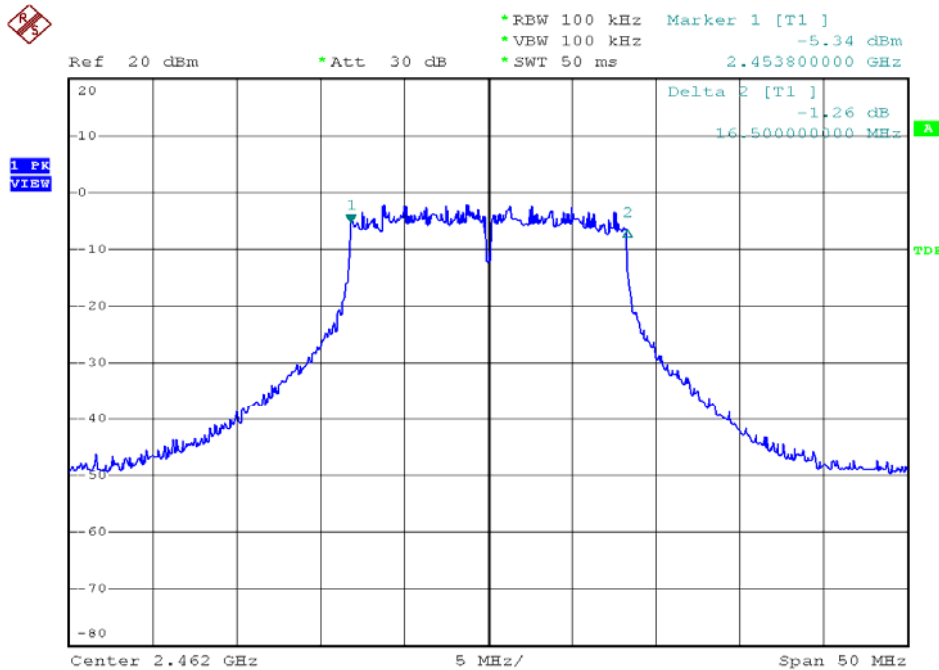


Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 06



Date: 5.JAN.2009 21:20:40

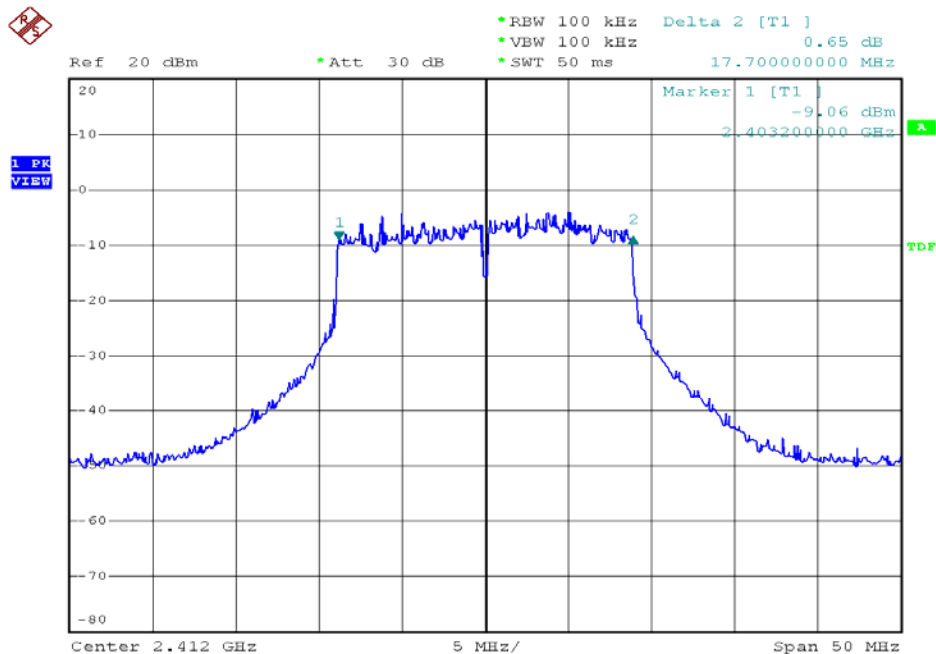
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 11



Date: 5.JAN.2009 21:31:49

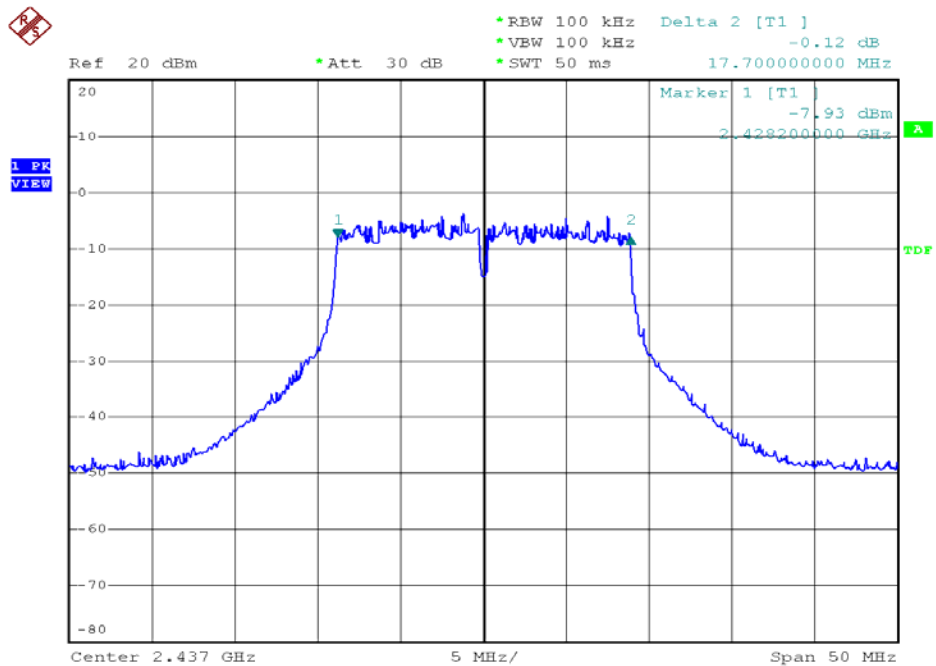


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 01



Date: 5.JAN.2009 21:48:54

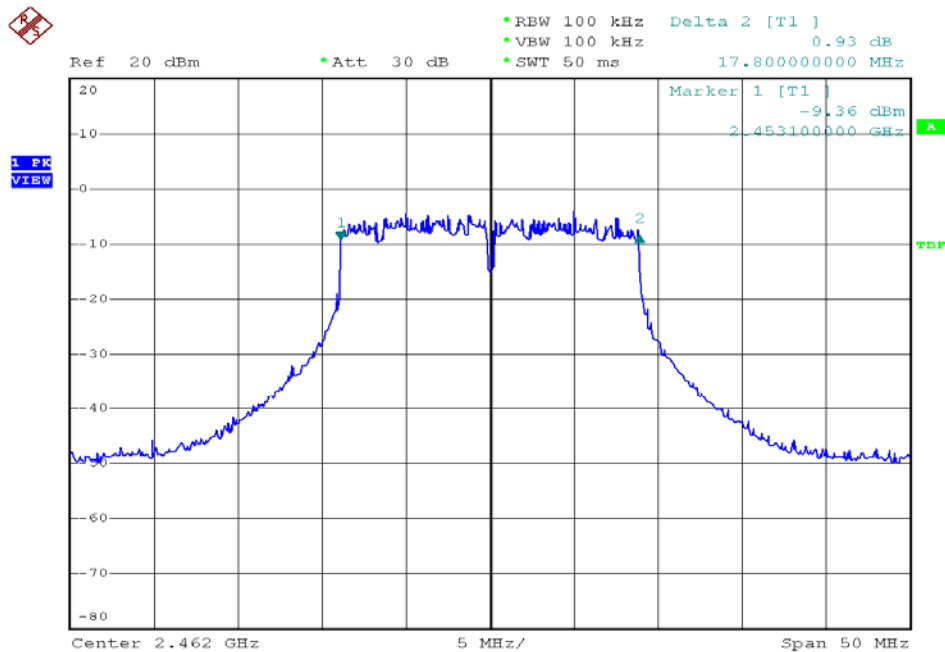
Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 06



Date: 5.JAN.2009 21:56:18

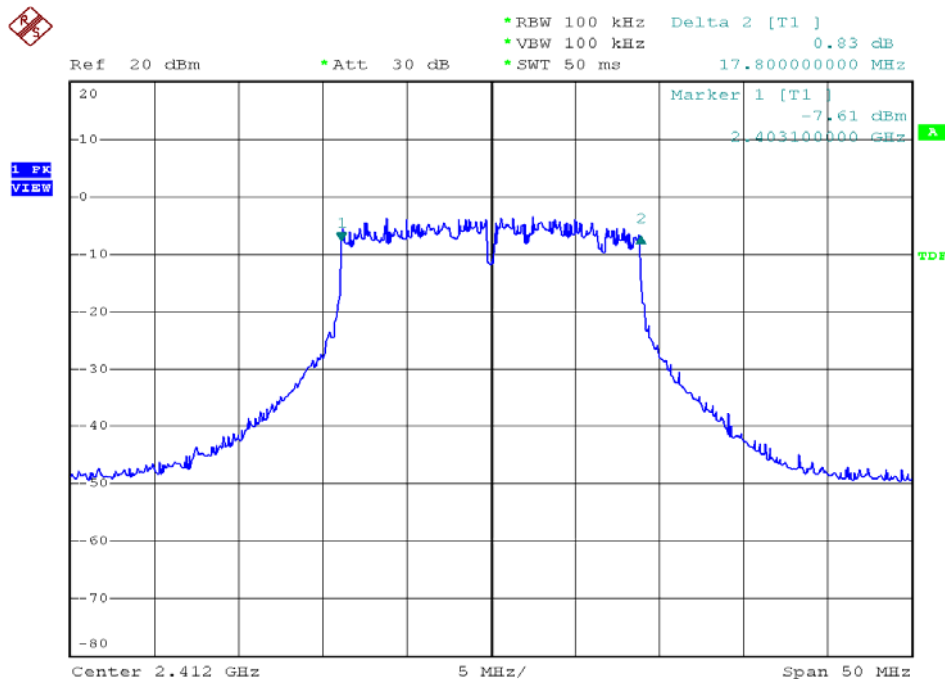


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 11



Date: 5.JAN.2009 22:03:59

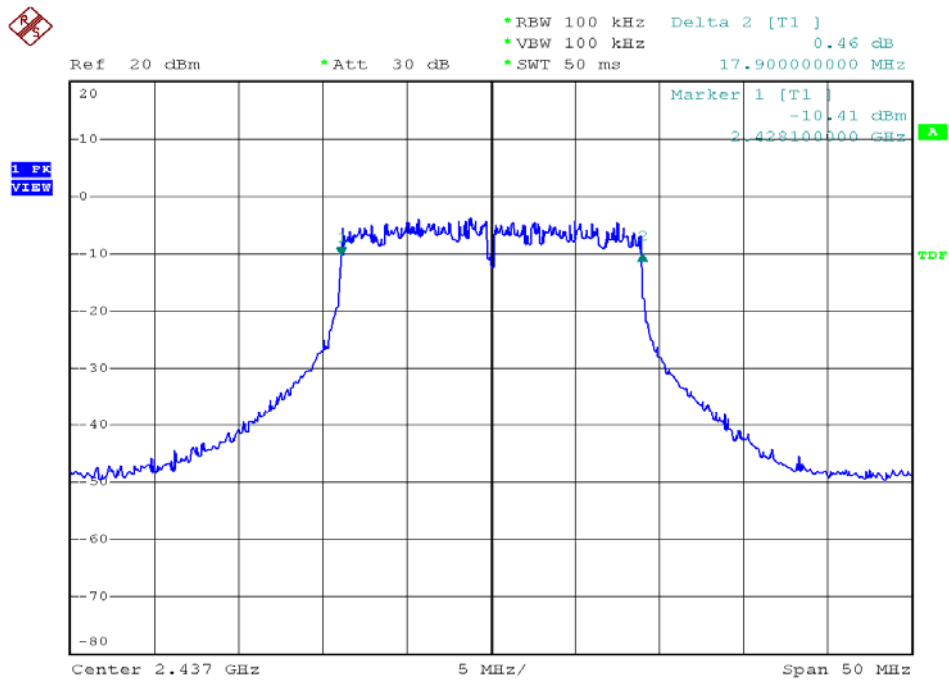
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 01



Date: 5.JAN.2009 21:46:29

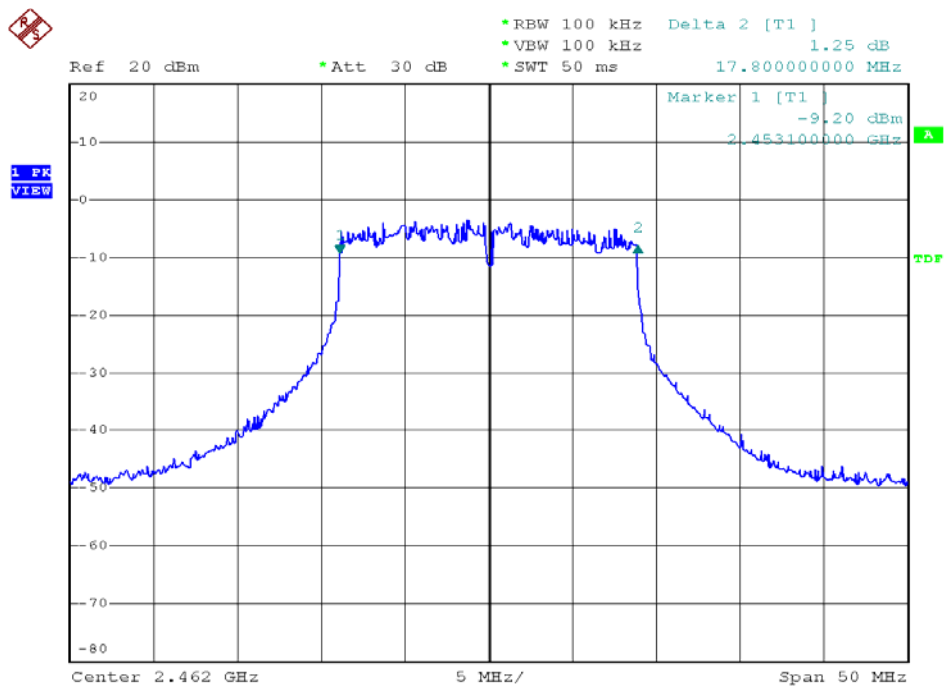


Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 06



Date: 5.JAN.2009 21:53:32

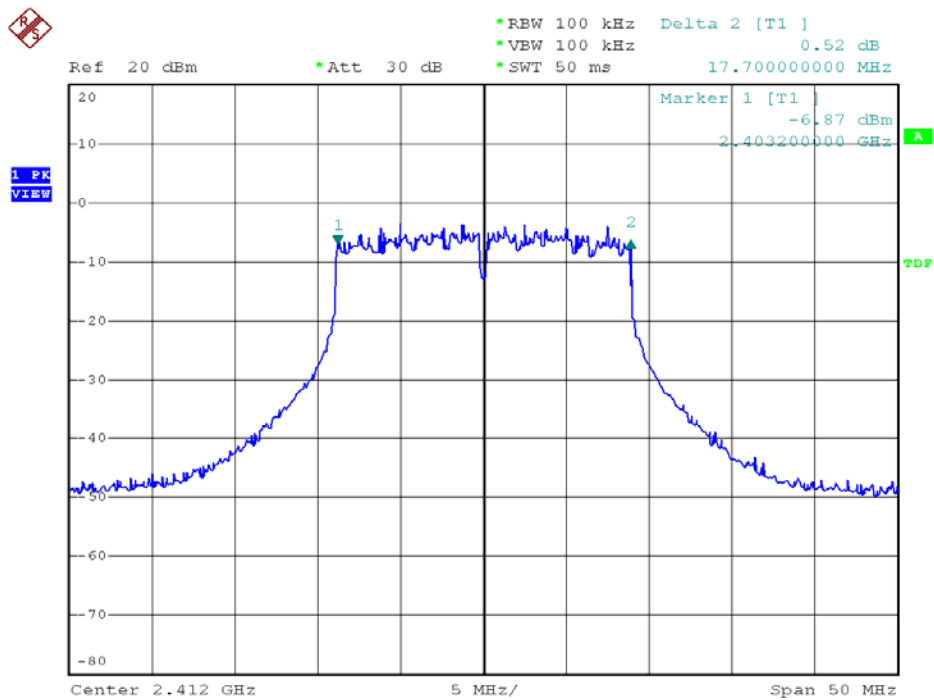
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 11



Date: 5.JAN.2009 22:01:43

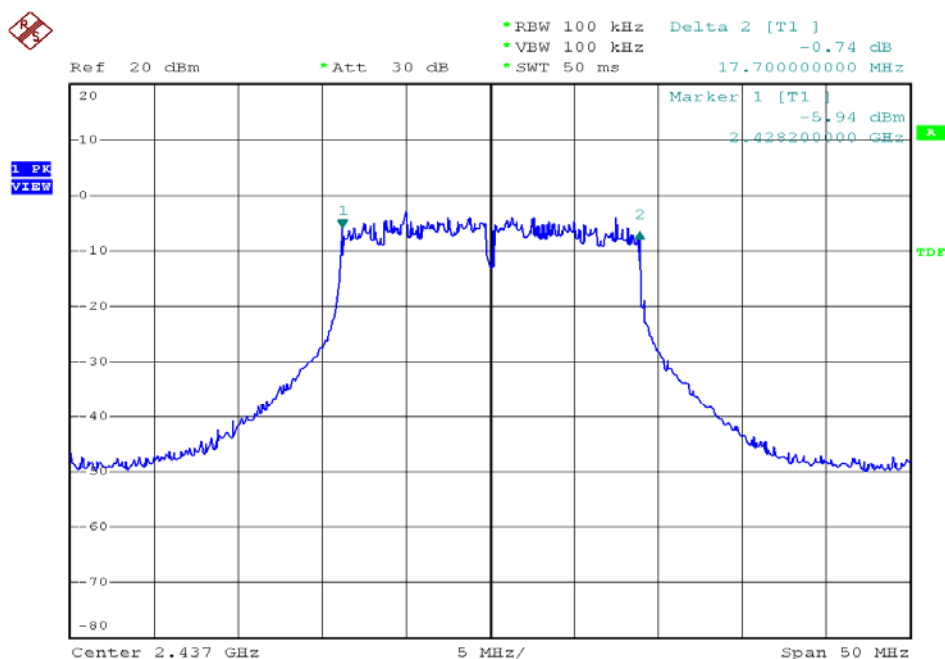


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 01



Date: 5.JAN.2009 21:43:09

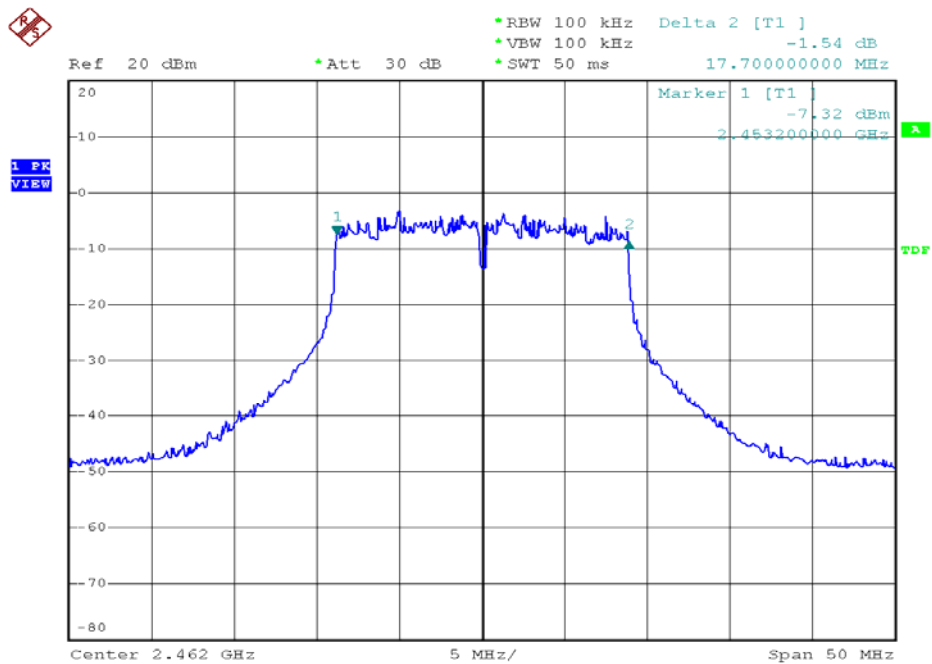
Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 06



Date: 5.JAN.2009 21:51:38

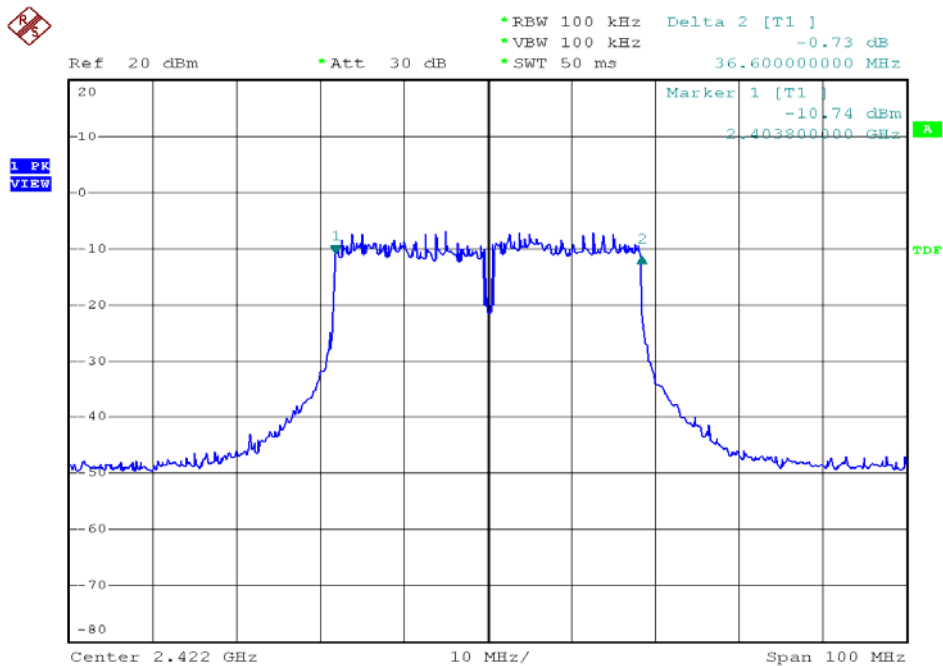


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 11



Date: 5.JAN.2009 21:59:08

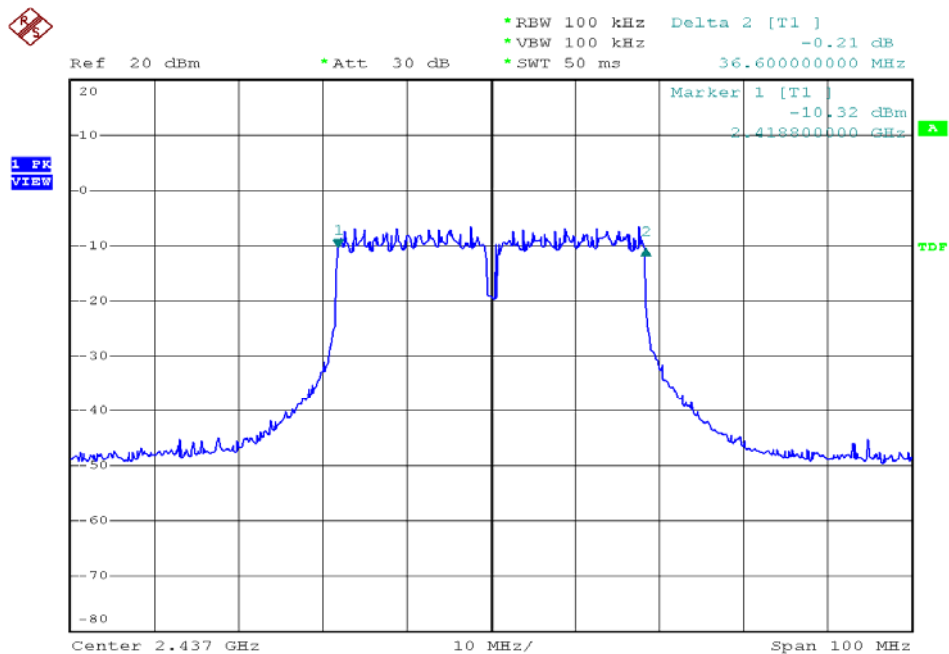
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 03



Date: 5.JAN.2009 22:12:57

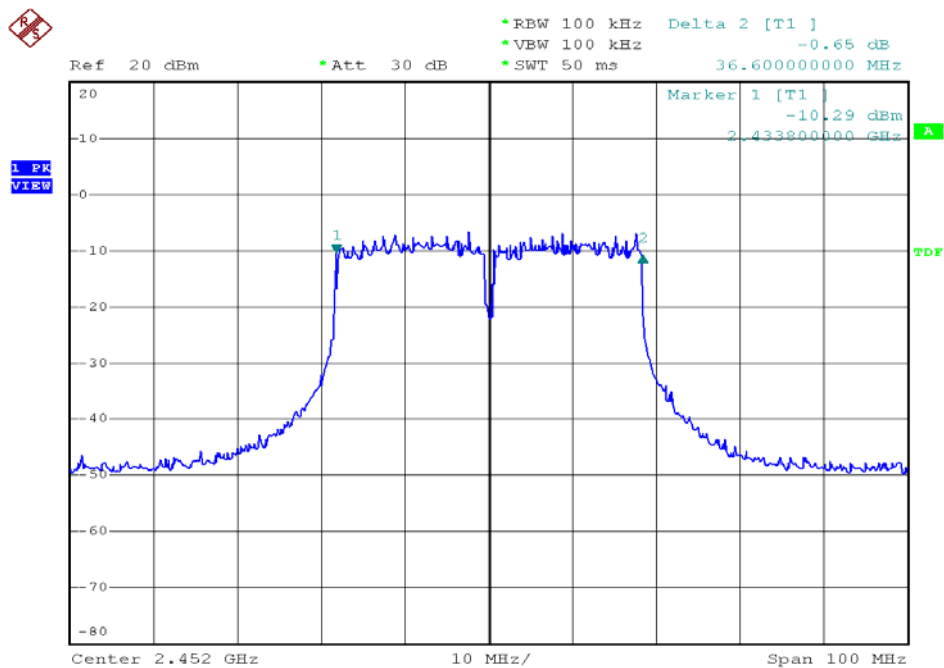


Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 08:34:12

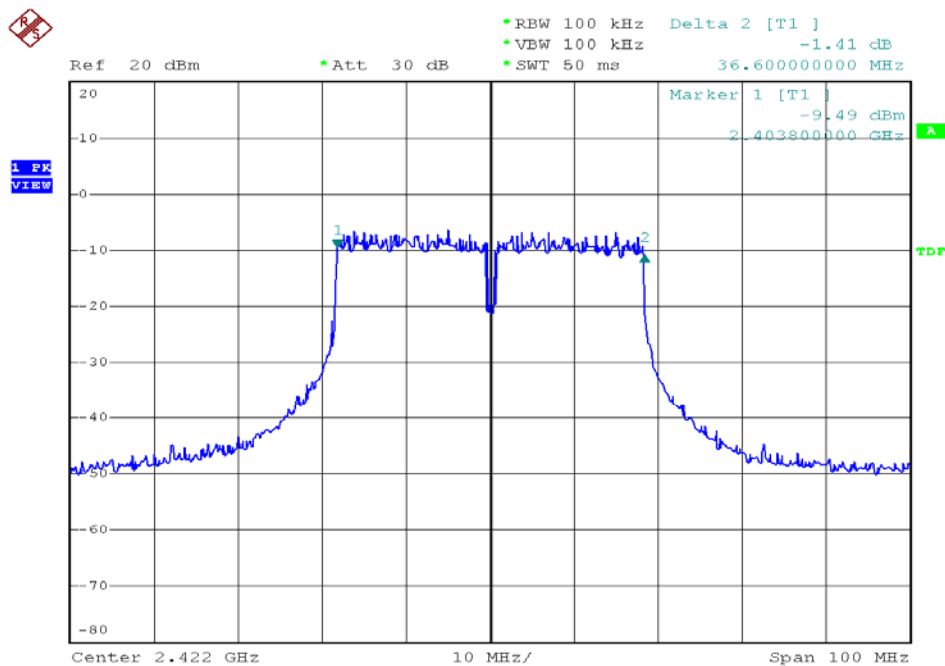
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 09



Date: 6.JAN.2009 08:42:44

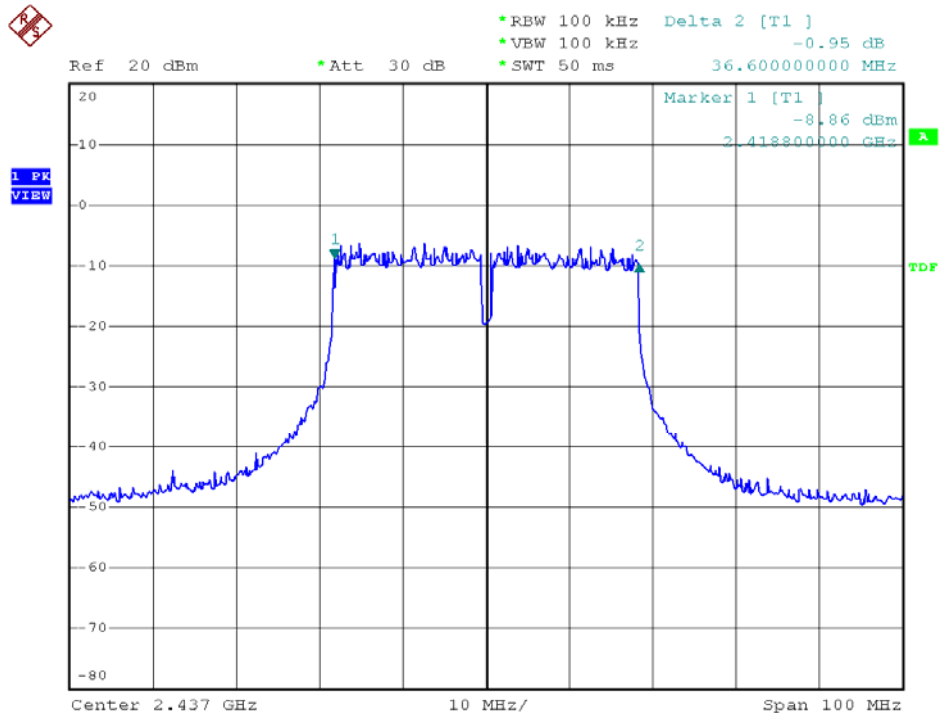


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 03



Date: 5.JAN.2009 22:11:00

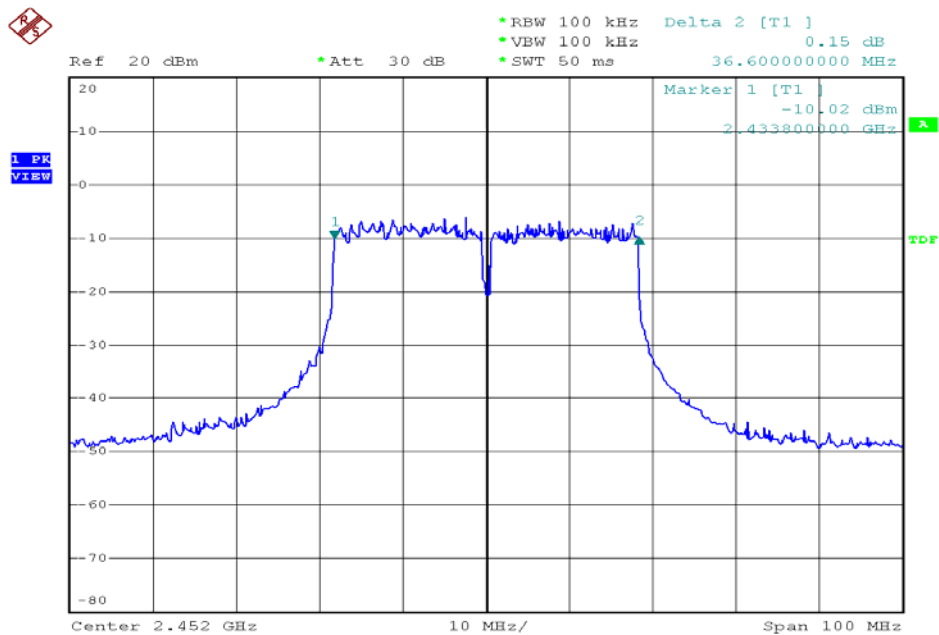
Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 08:28:50

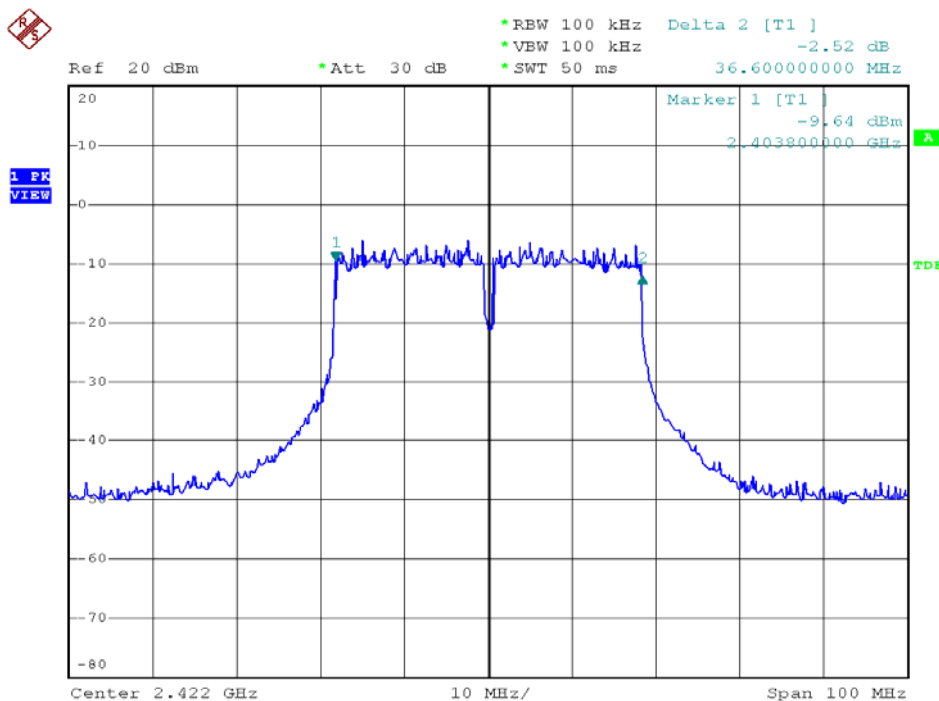


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 09



Date: 6.JAN.2009 08:40:35

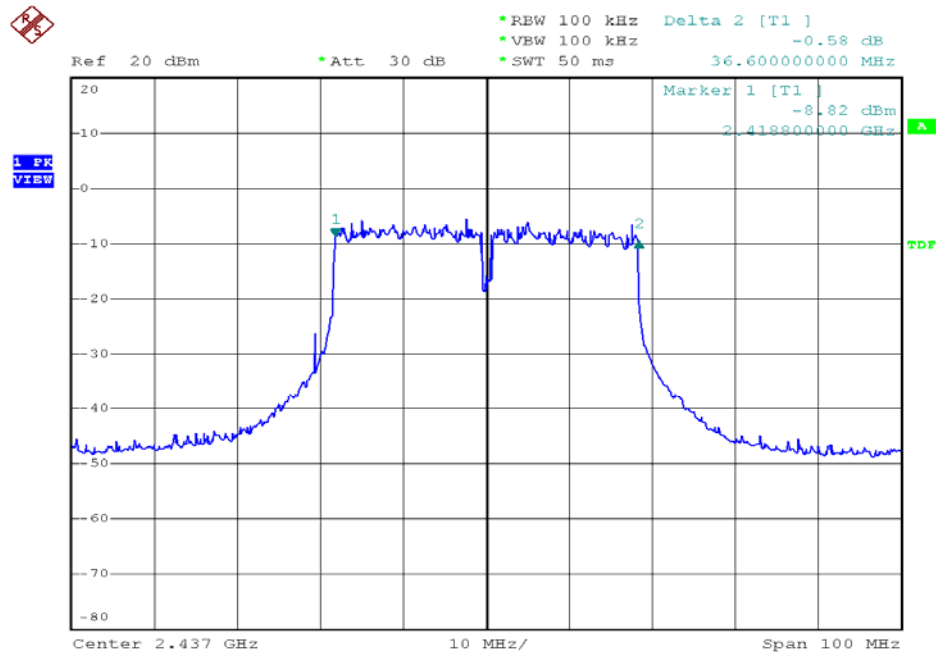
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 03



Date: 5.JAN.2009 22:08:54

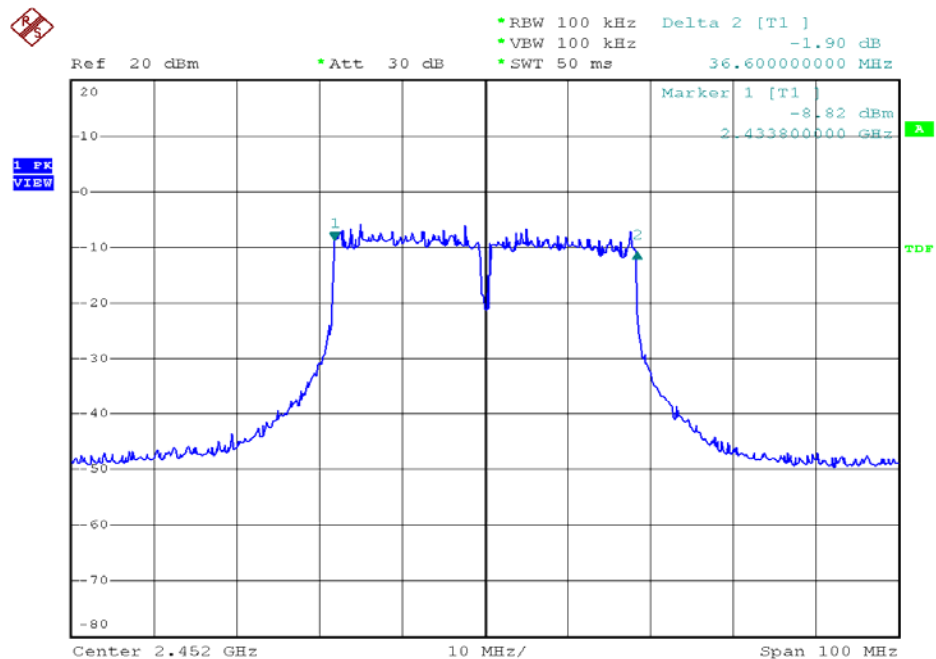


Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 08:24:51

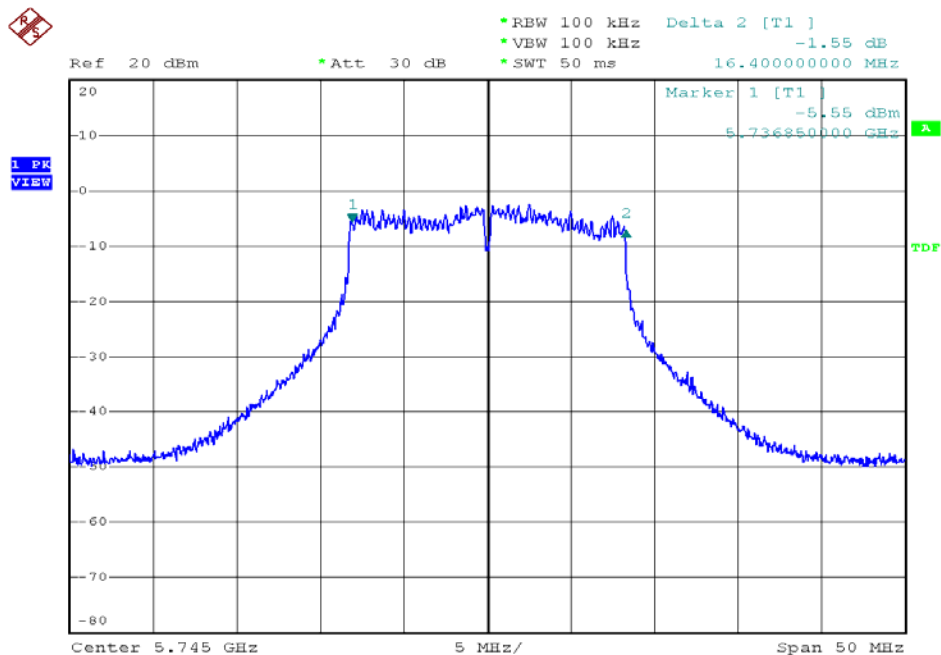
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 09



Date: 6.JAN.2009 08:37:55

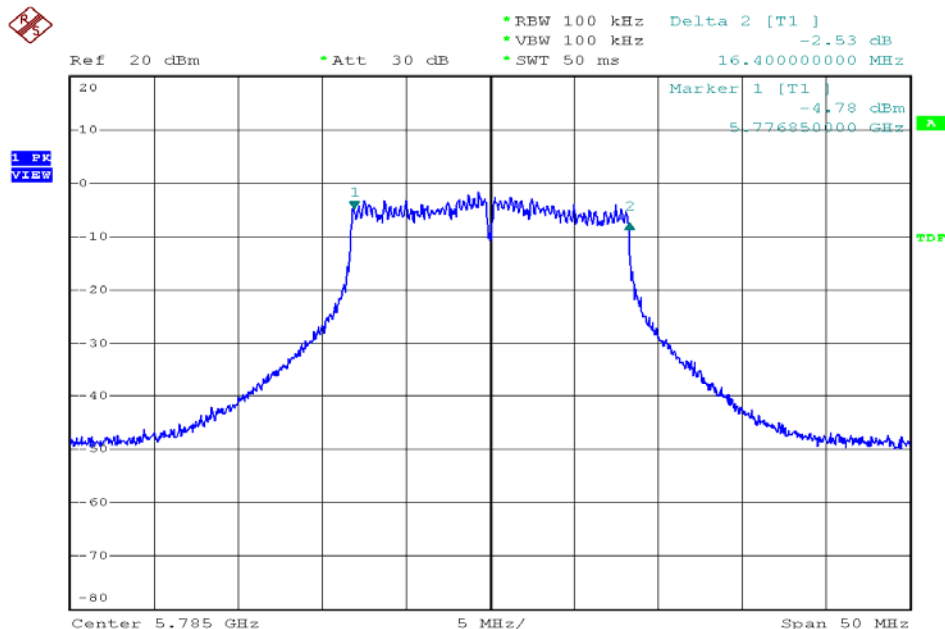


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 149



Date: 8.JAN.2009 19:11:24

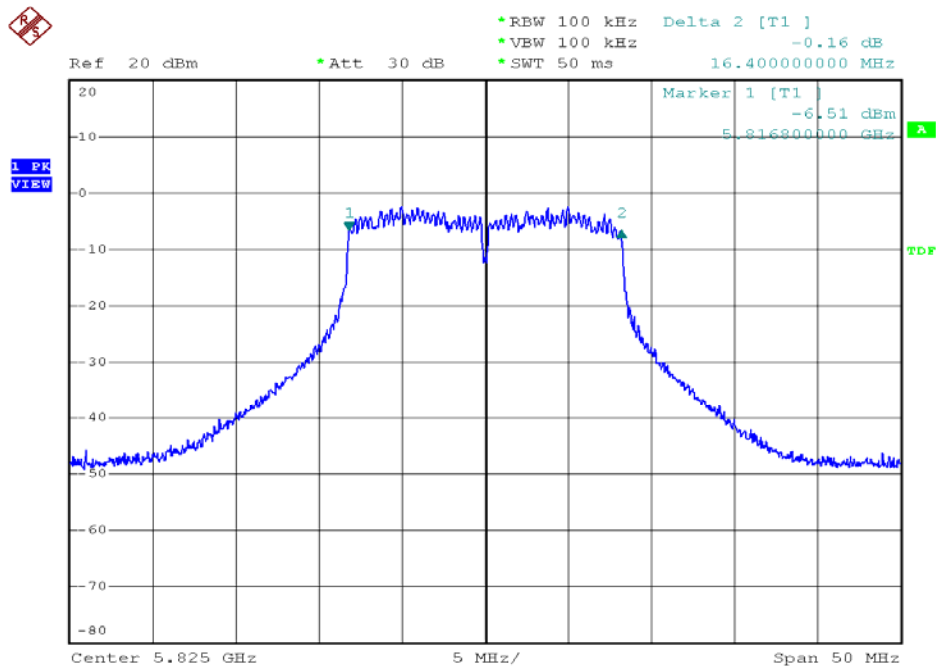
Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 157



Date: 8.JAN.2009 19:21:29

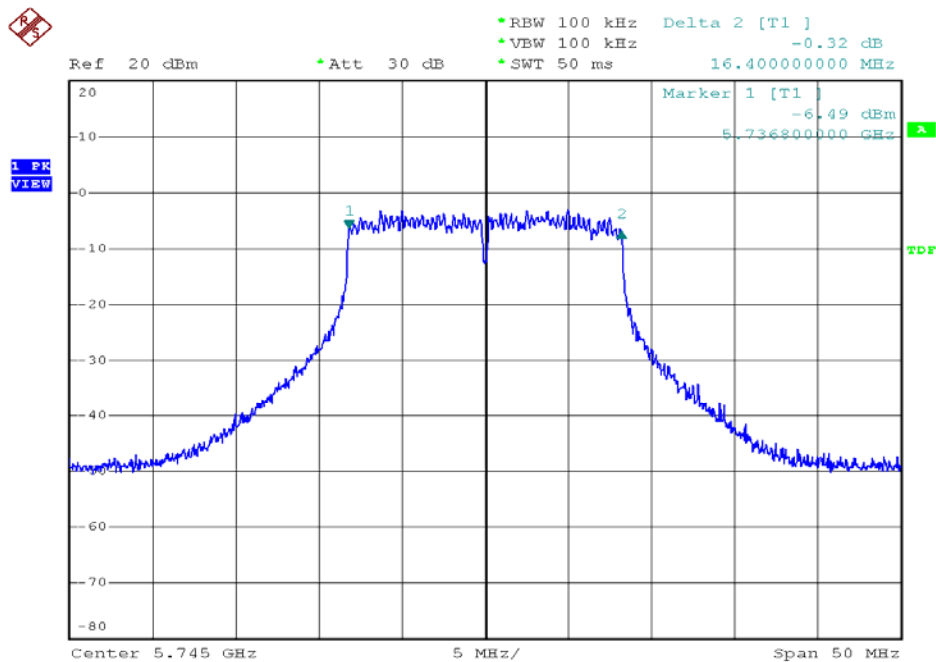


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 165



Date: 8.JAN.2009 19:32:36

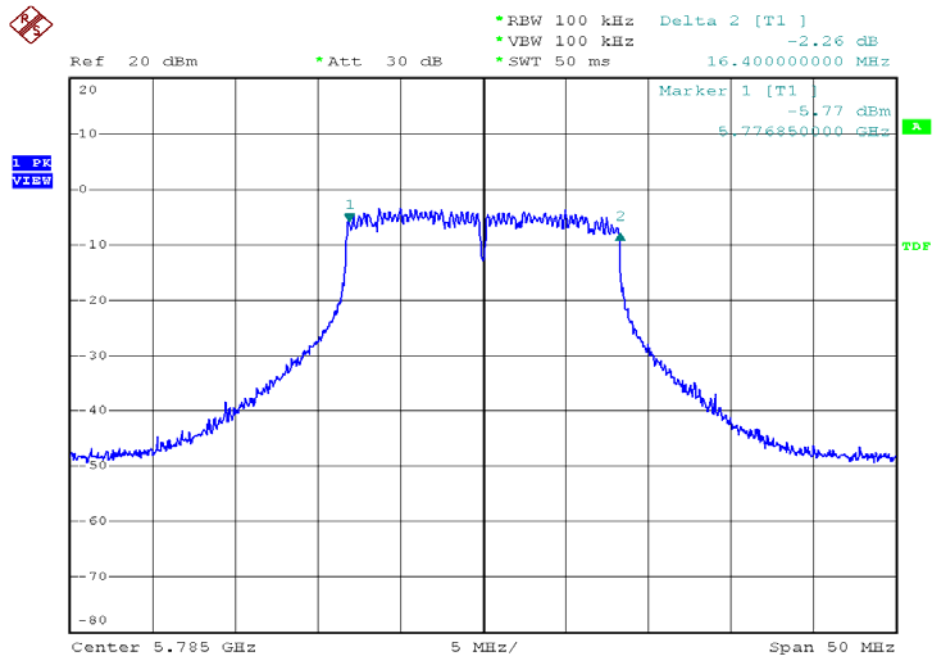
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 149



Date: 8.JAN.2009 19:08:57

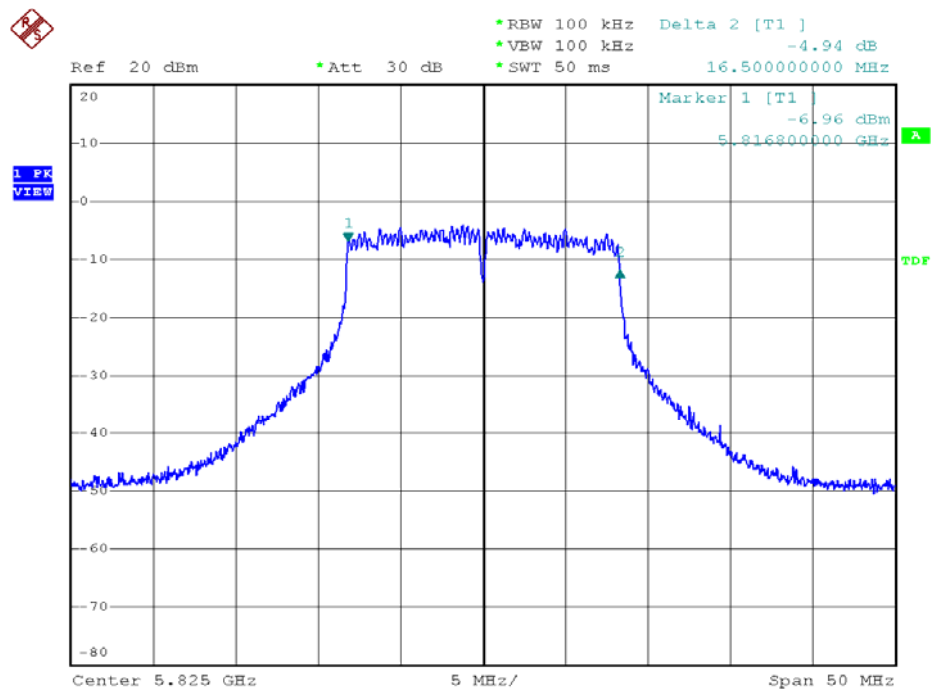


Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 157



Date: 8.JAN.2009 19:19:16

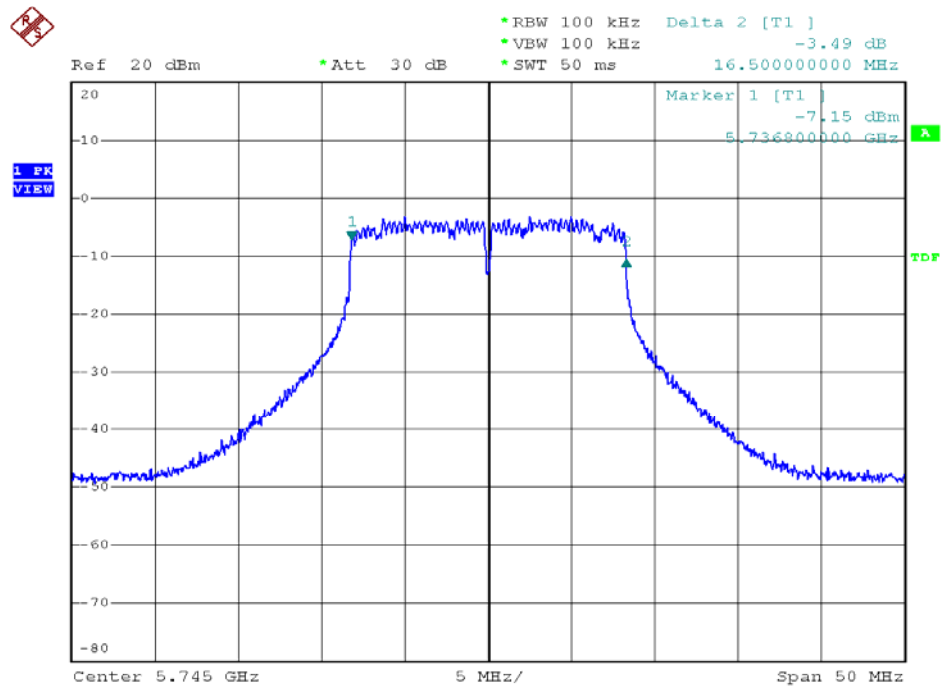
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 165



Date: 8.JAN.2009 19:26:51

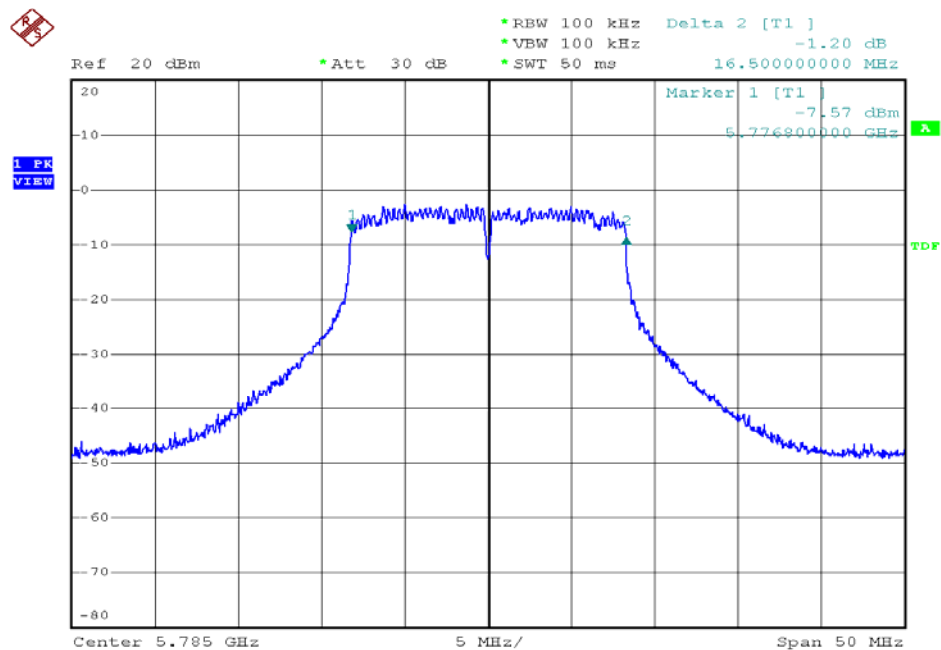


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 149



Date: 8.JAN.2009 19:06:28

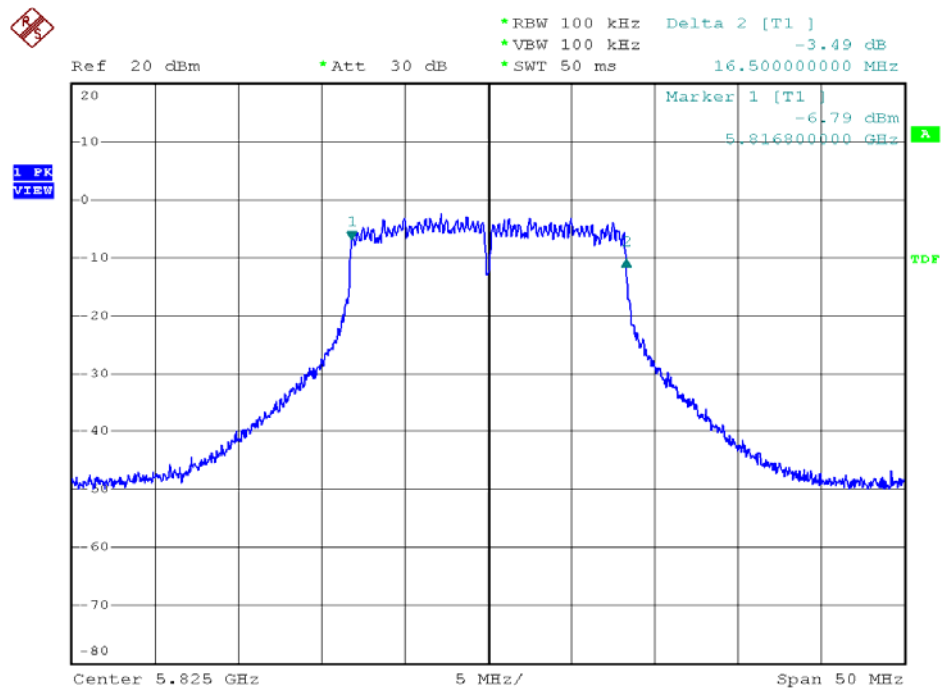
Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 157



Date: 8.JAN.2009 19:16:06

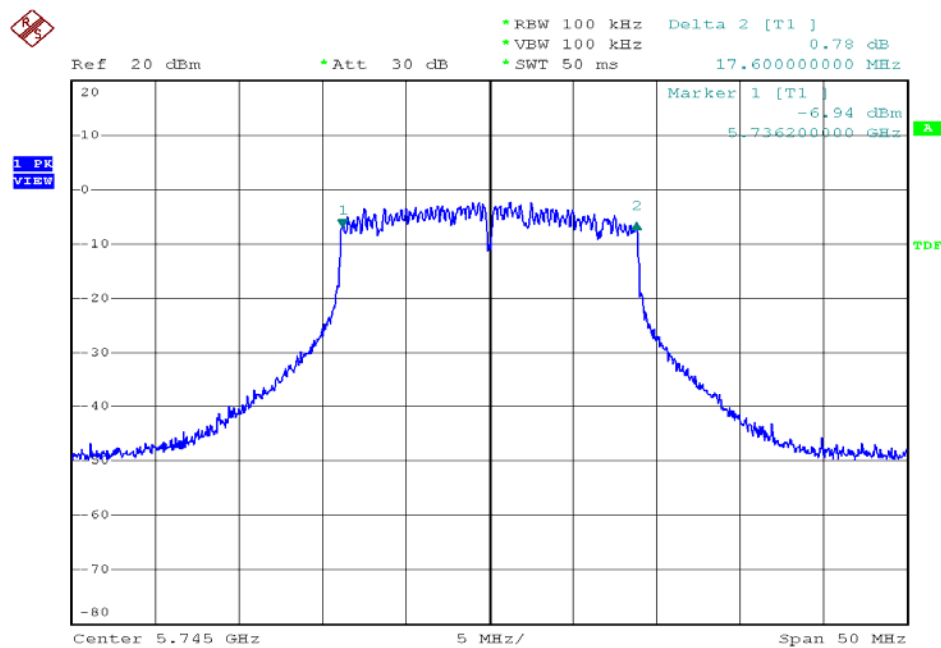


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 165



Date: 8.JAN.2009 19:24:11

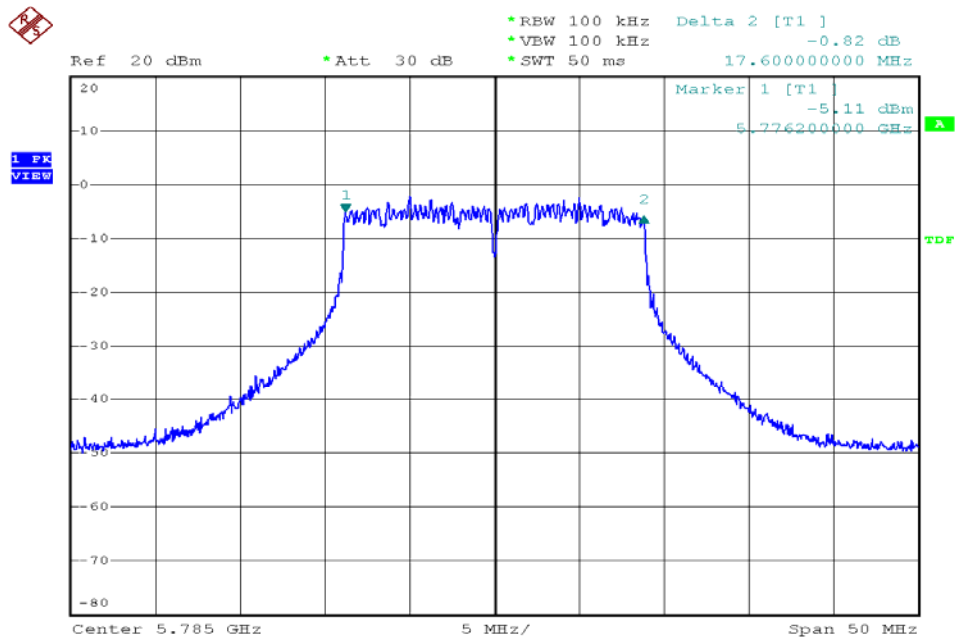
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 149



Date: 8.JAN.2009 20:06:33

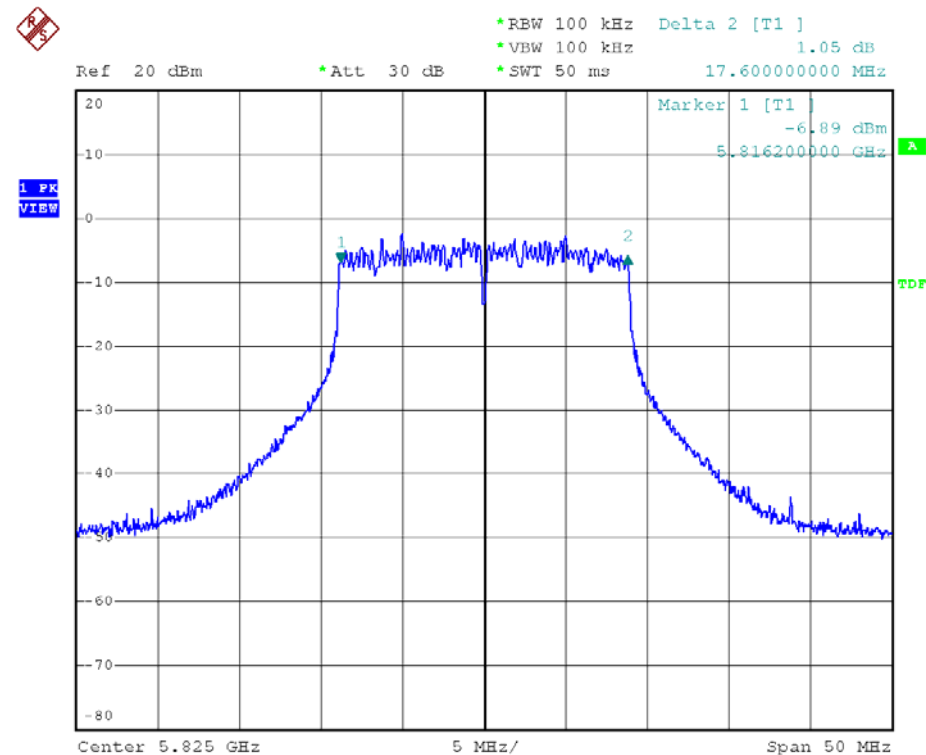


Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 157



Date: 8.JAN.2009 20:16:03

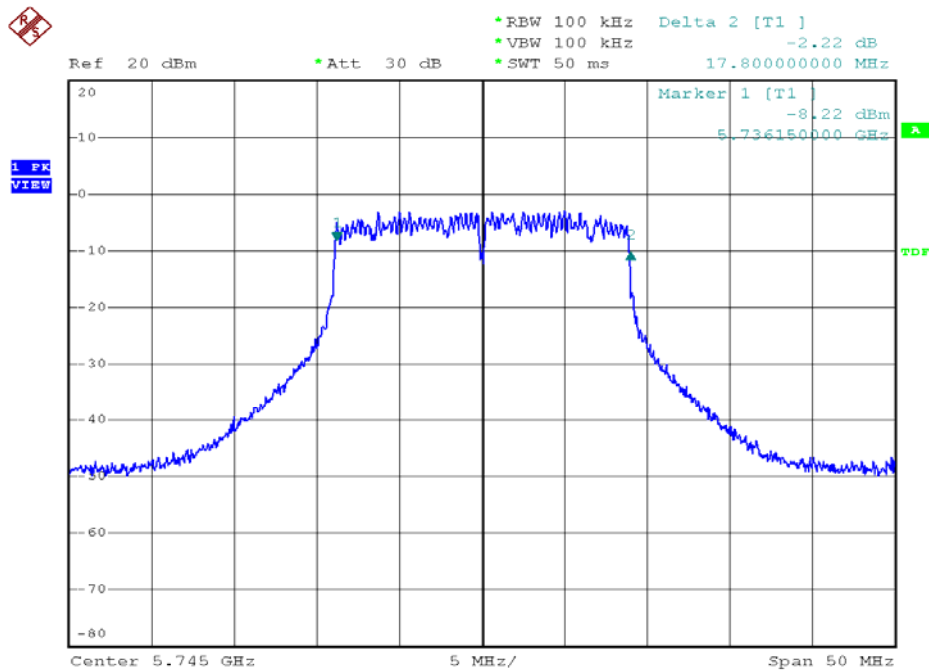
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 165



Date: 8.JAN.2009 20:24:28

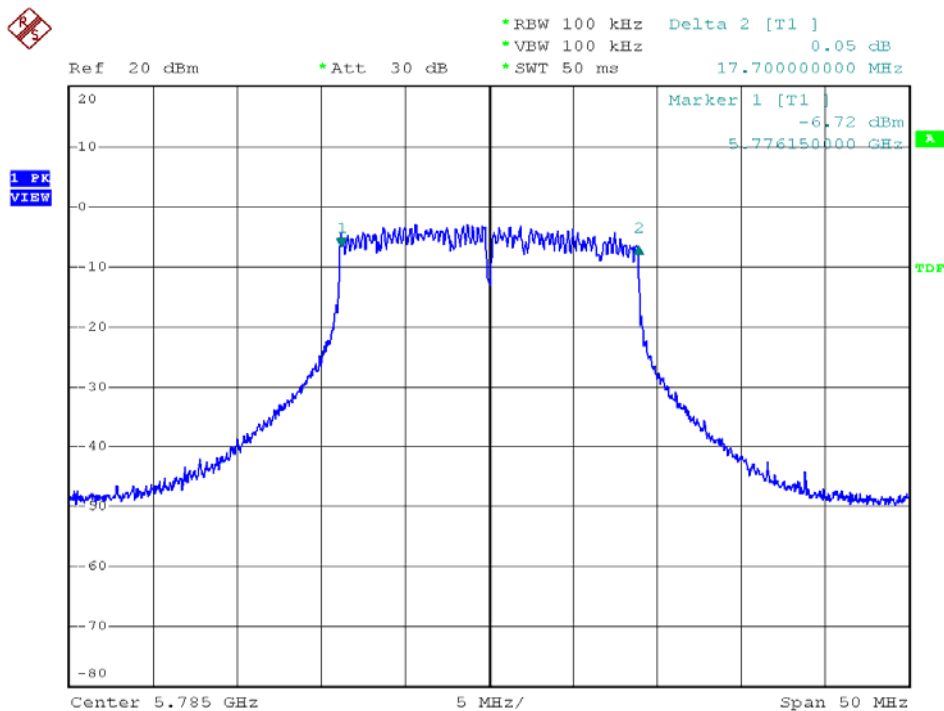


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 149



Date: 8.JAN.2009 20:04:12

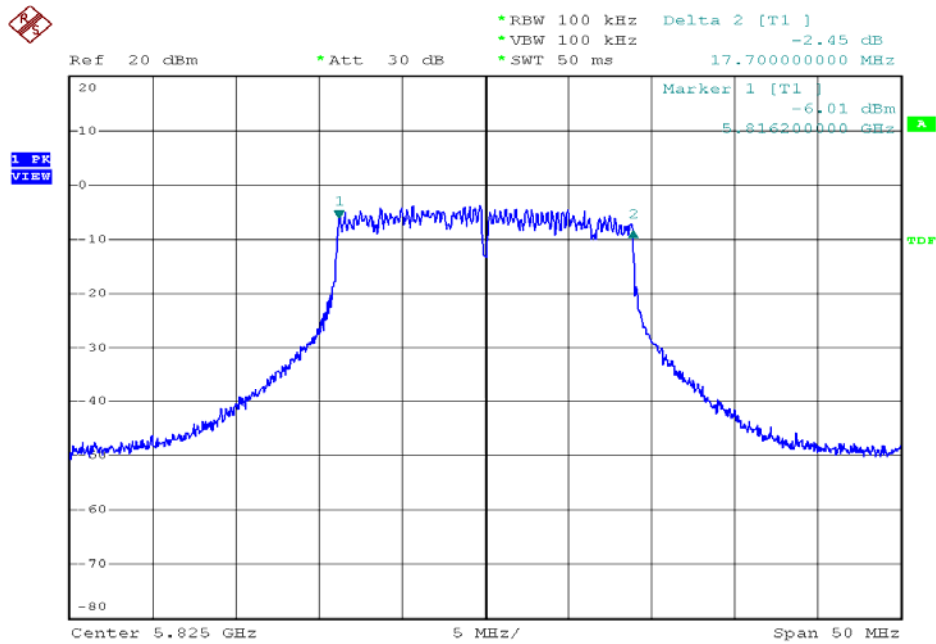
Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 157



Date: 8.JAN.2009 20:11:46

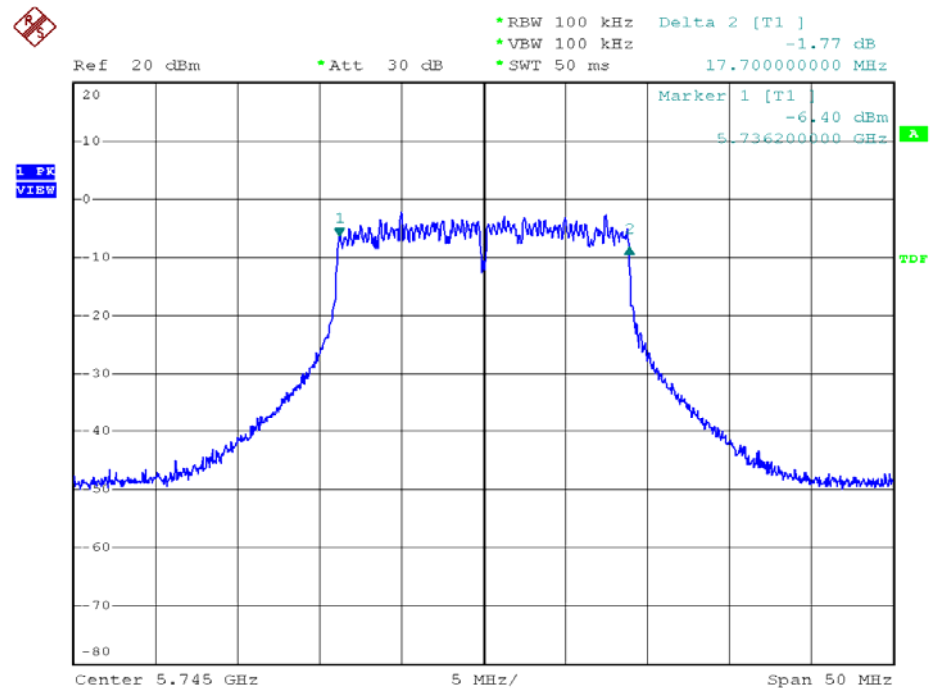


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 165



Date: 8.JAN.2009 20:22:02

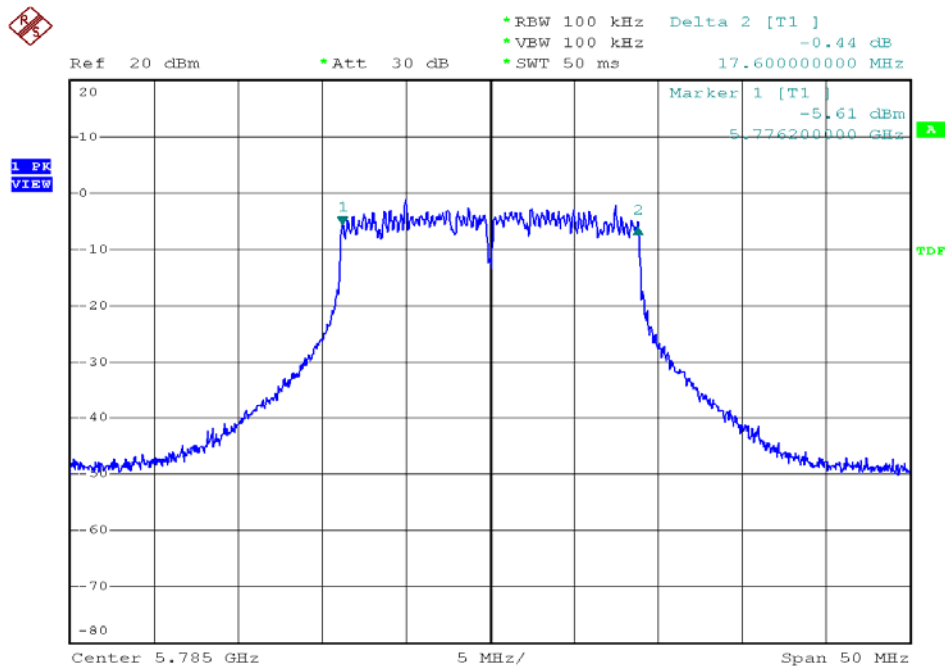
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 149



Date: 8.JAN.2009 20:00:40

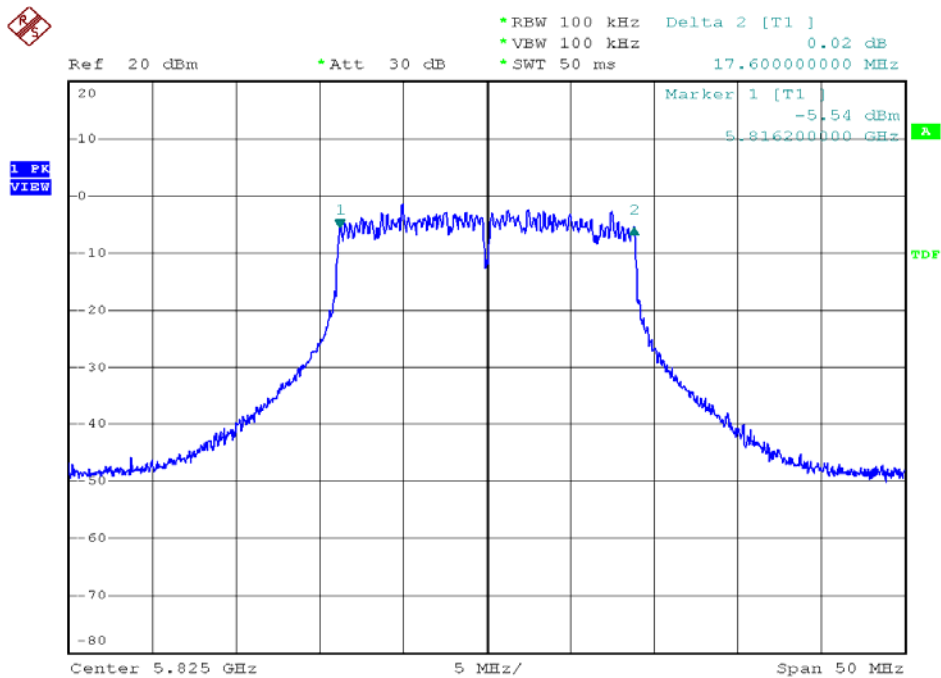


Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 157



Date: 8.JAN.2009 20:09:22

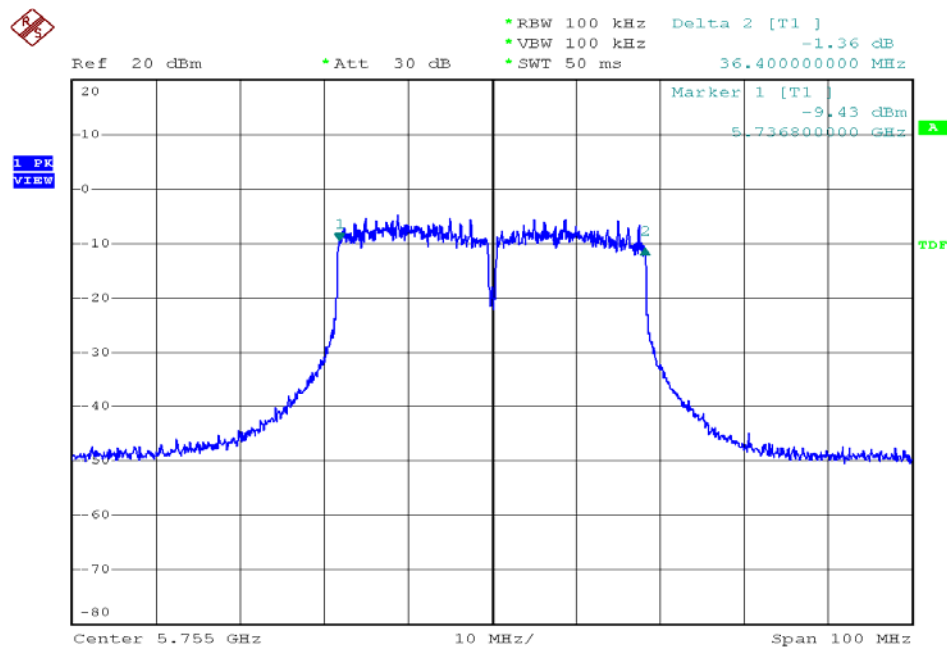
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 165



Date: 8.JAN.2009 20:19:33

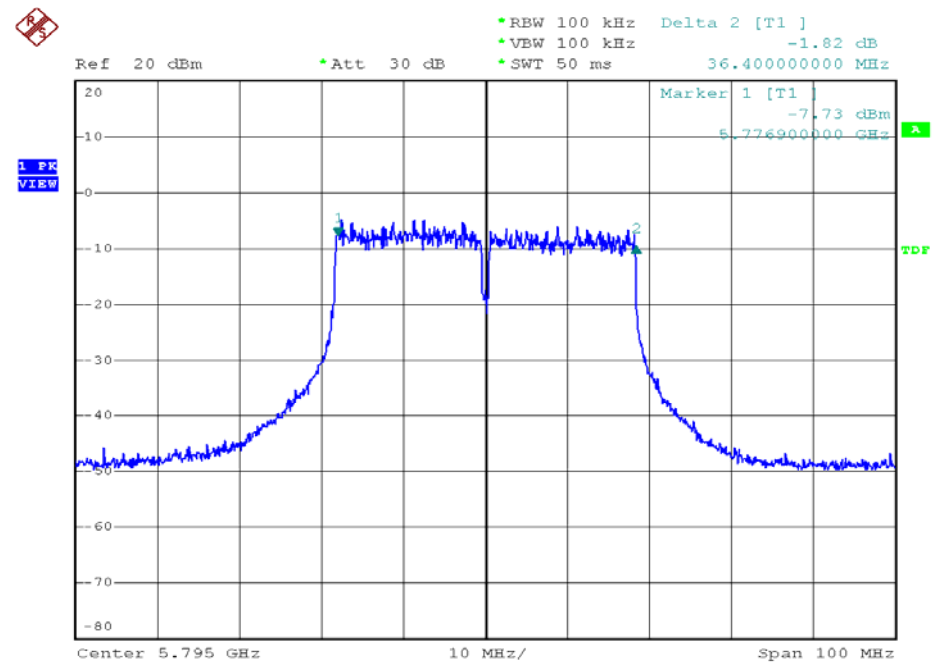


Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 151



Date: 8.JAN.2009 20:33:42

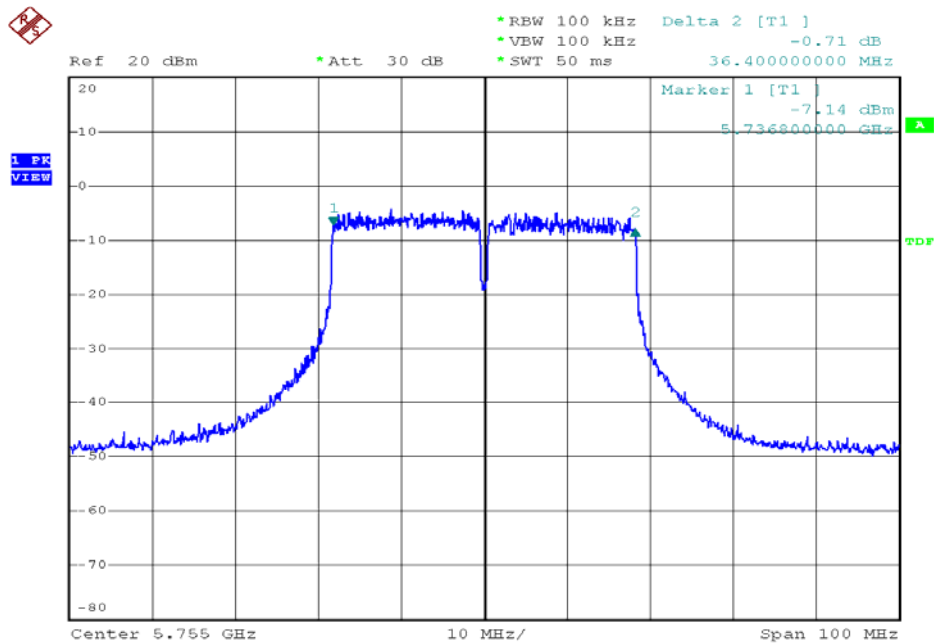
Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 159



Date: 8.JAN.2009 20:43:18

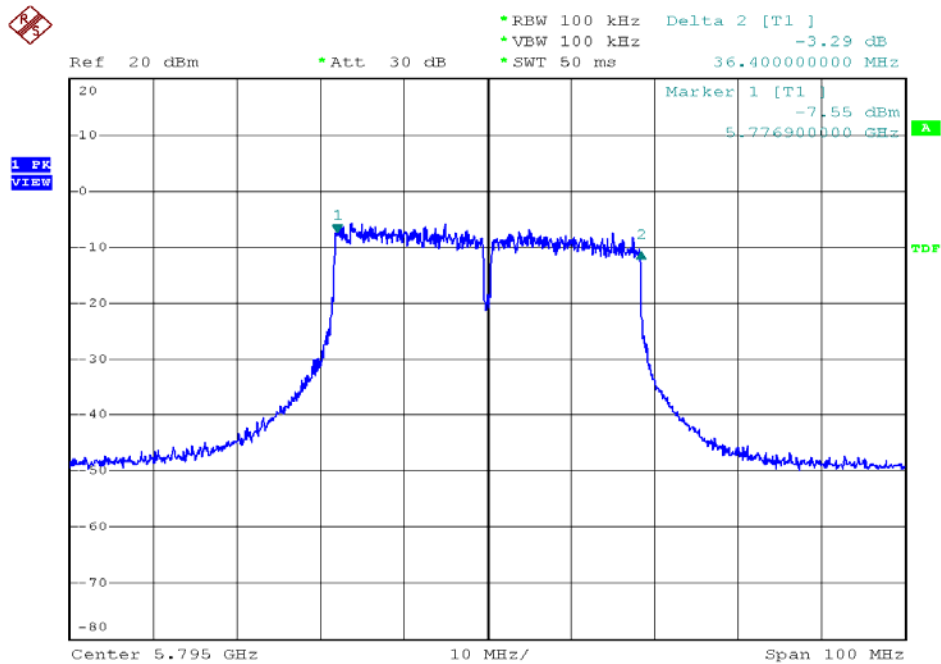


Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 151



Date: 8.JAN.2009 20:31:41

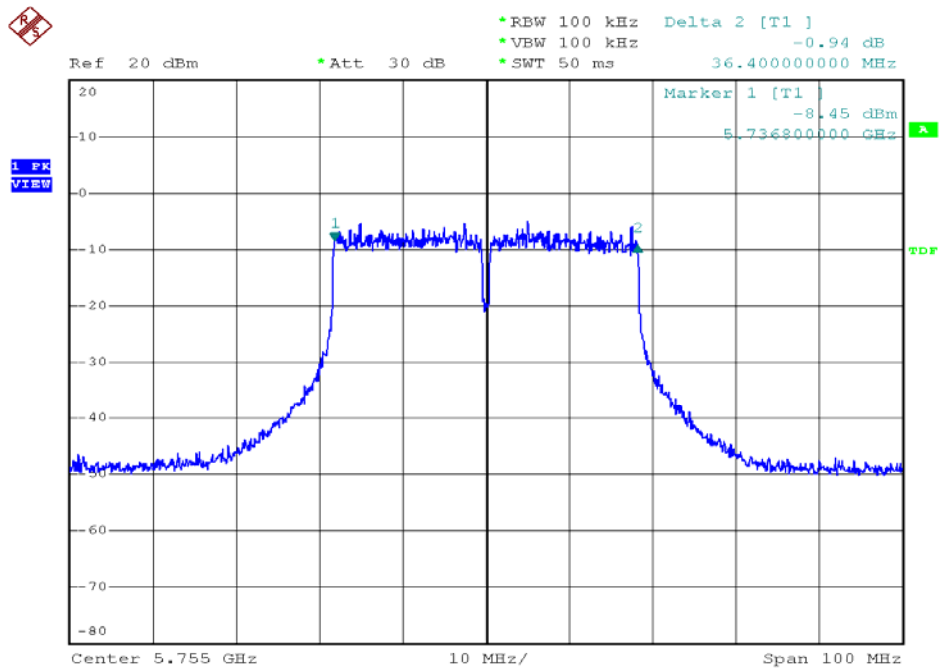
Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 159



Date: 8.JAN.2009 20:40:36

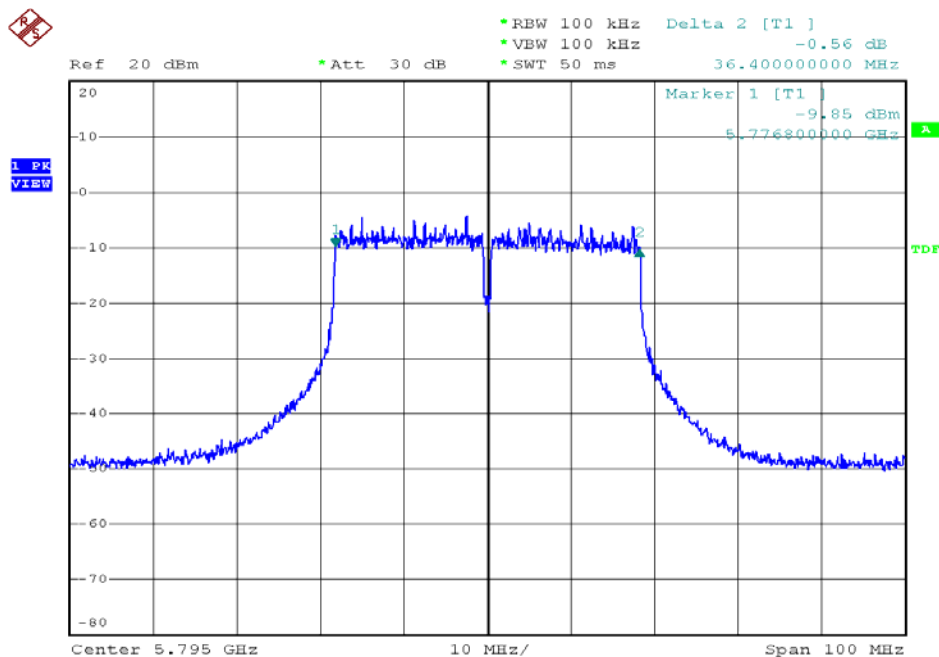


Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 151



Date: 8.JAN.2009 20:29:01

Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 159



Date: 8.JAN.2009 20:37:46



7. Maximum Peak Output Power

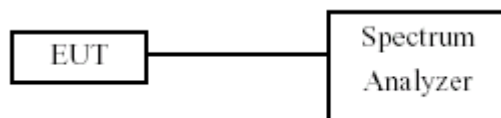
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

7.3 Test Setup Layout



7.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

7.5 Test Result and Data

Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11b (11Mbps)	01	2412	17.55	18.60	17.81	56.90	72.40	60.40
	06	2437	18.91	19.33	19.37	77.80	85.70	86.50
	11	2462	18.96	18.98	19.17	78.70	79.10	82.60
802.11g (54Mbps)	01	2412	16.29	17.42	17.30	42.60	55.20	17.30
	06	2437	18.24	18.00	18.12	66.70	63.10	18.12
	11	2462	17.80	17.80	18.16	60.30	60.30	18.16



Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)				Peak Power Output (mW)
			Ant1	Ant2	Ant3	Ant1+2+3	Ant1+2+3
802.11n HT20 (104Mbps)	01	2412	15.86	17.01	16.54	21.27	133.86
	06	2437	15.93	16.44	16.50	21.07	127.90
	11	2462	15.67	16.60	16.15	20.93	123.82
802.11n HT40 (108Mbps)	03	2422	16.02	17.01	16.81	21.41	138.20
	06	2437	16.26	16.80	16.90	21.43	139.11
	09	2452	16.33	16.95	16.45	21.36	136.66

Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

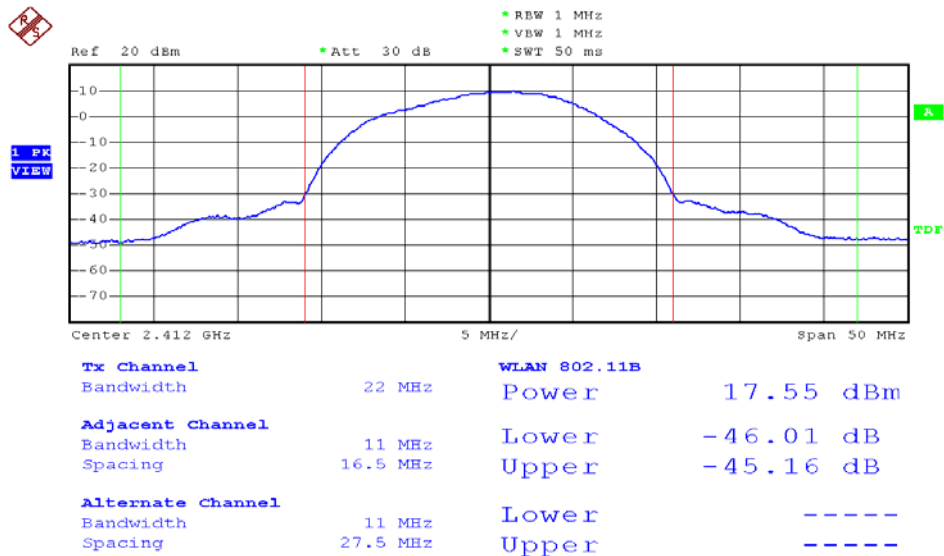
Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11a (54Mbps)	149	5745	17.23	17.41	17.21	52.80	55.10	52.60
	157	5785	17.05	17.22	17.02	50.70	52.70	50.40
	165	5825	17.21	17.09	17.17	52.60	51.20	52.10

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)				Peak Power Output (mW)
			Ant1	Ant2	Ant3	Ant1+2+3	Ant3+5
802.11an HT20 (104Mbps)	149	5745	17.05	17.19	17.26	21.94	156.27
	157	5785	17.20	17.21	17.10	21.94	156.37
	165	5825	16.68	17.40	17.20	21.88	153.99
802.11an HT40 (108Mbps)	151	5755	17.32	17.02	17.38	22.01	159.00
	159	5795	17.31	17.01	17.31	21.98	157.89

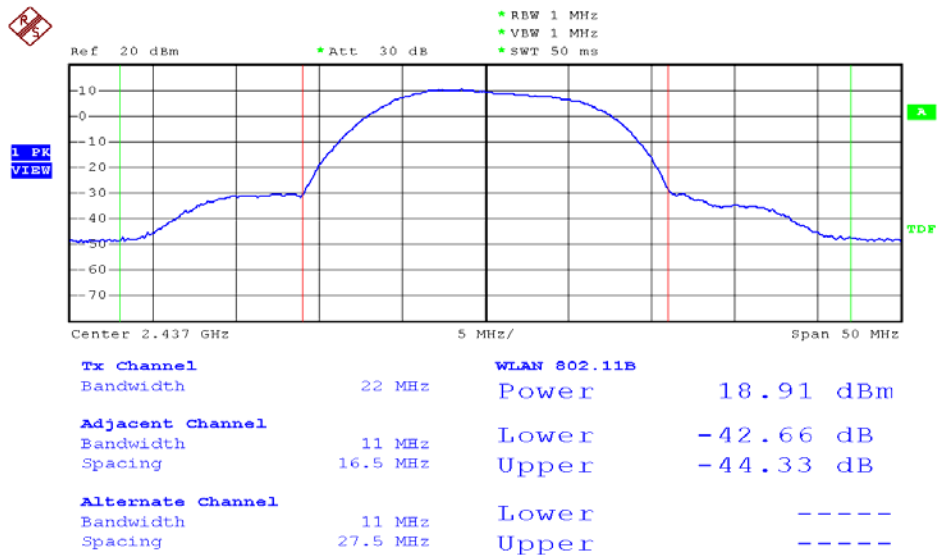


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 08:54:12

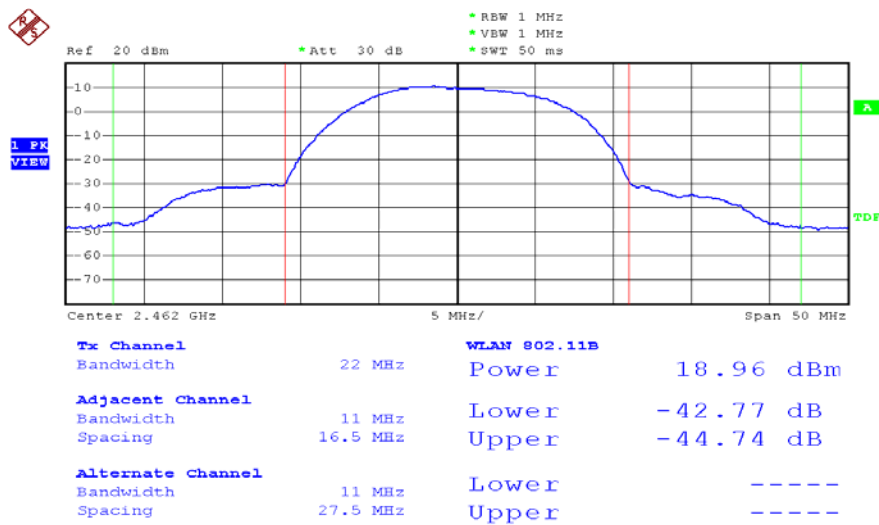
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 09:15:51

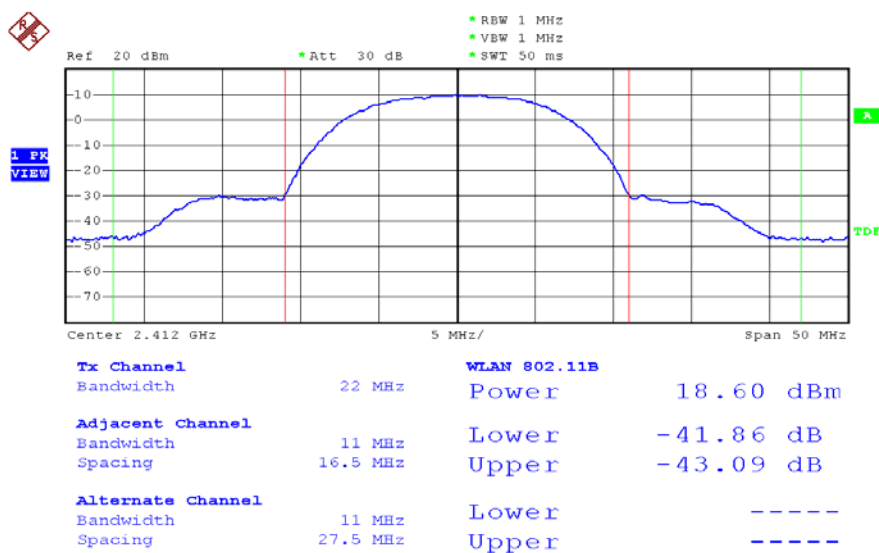


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 09:24:16

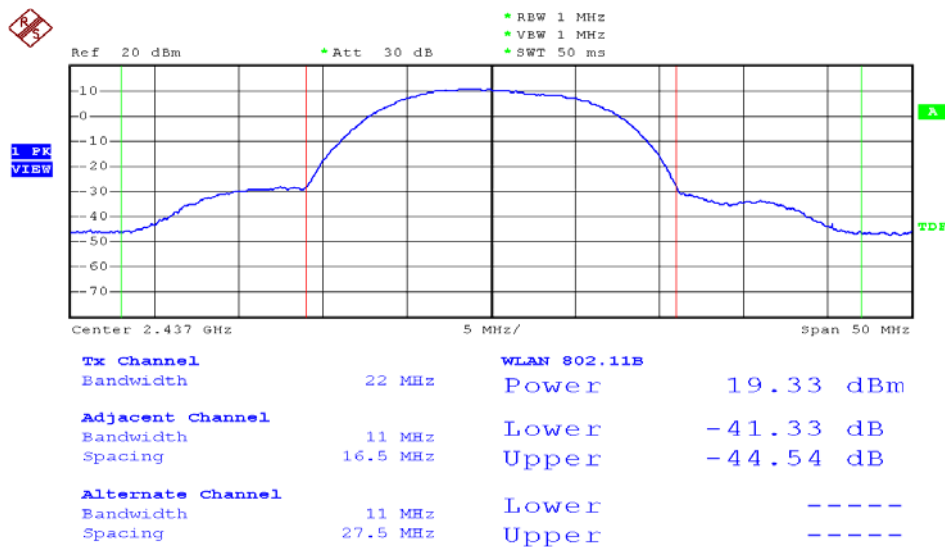
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 09:02:39

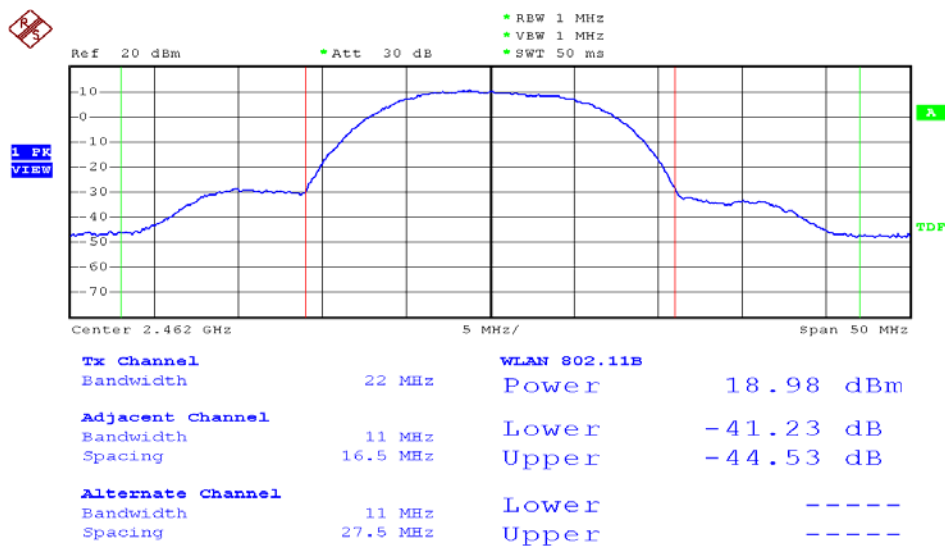


Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 09:13:01

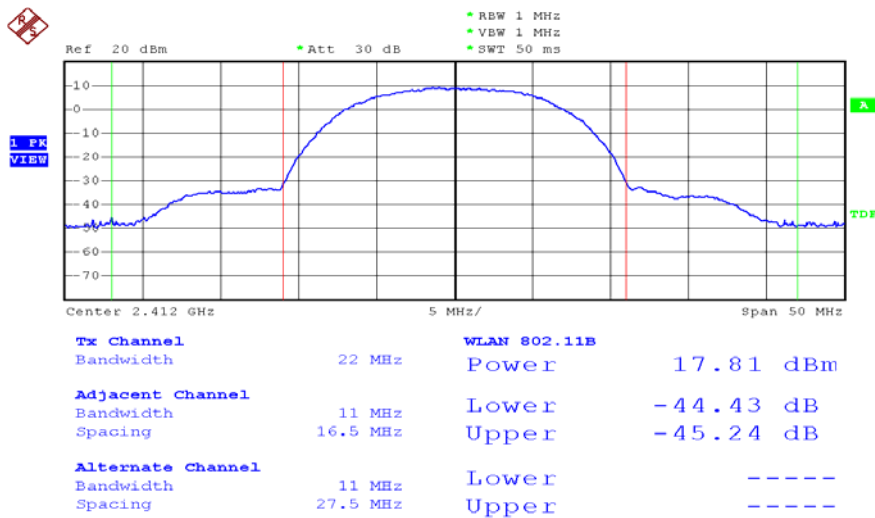
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 09:23:13

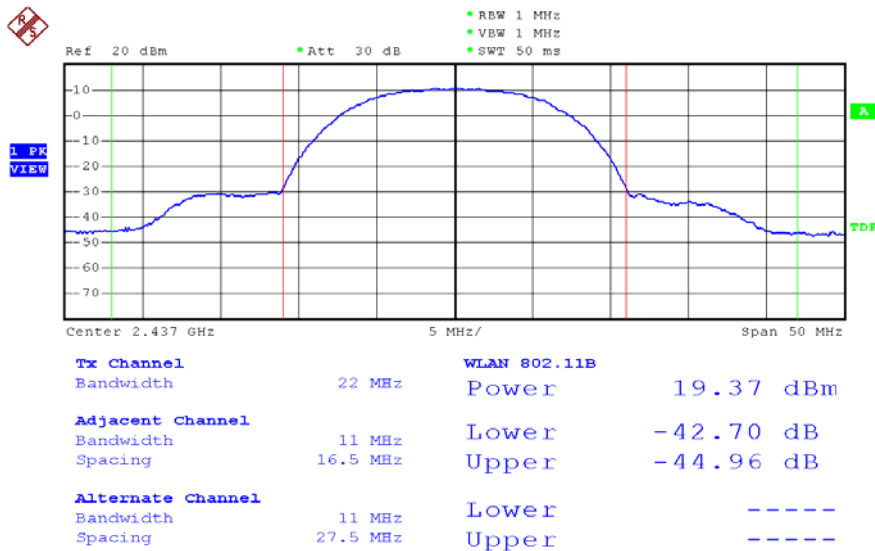


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 09:03:51

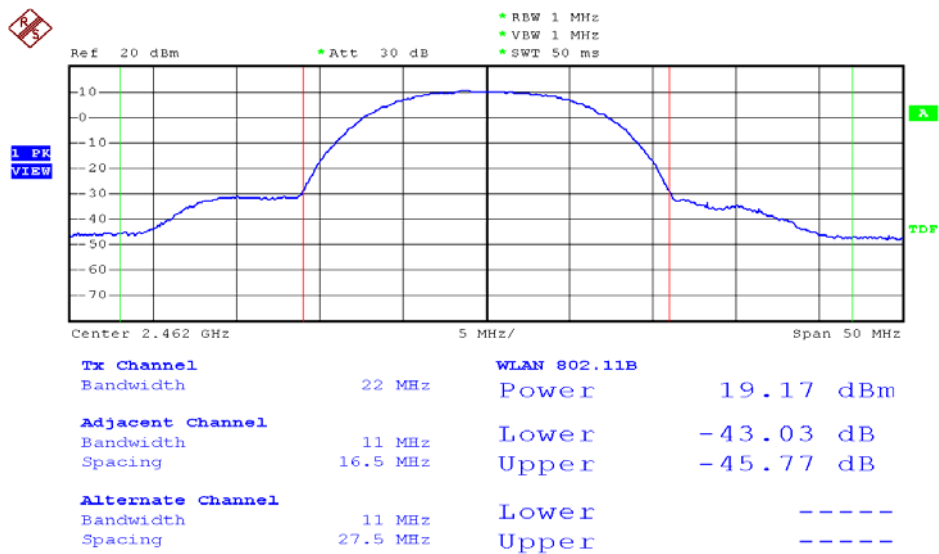
Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 09:10:47

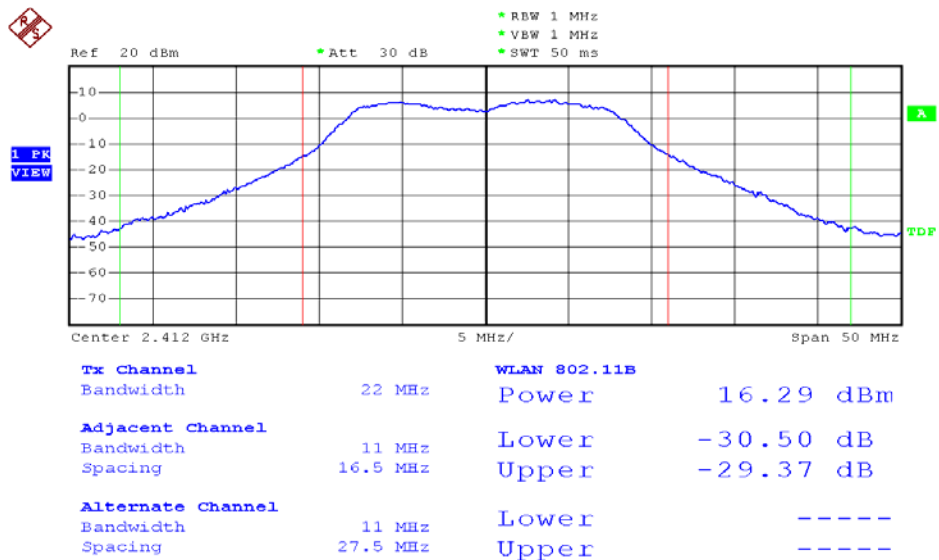


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 09:19:59

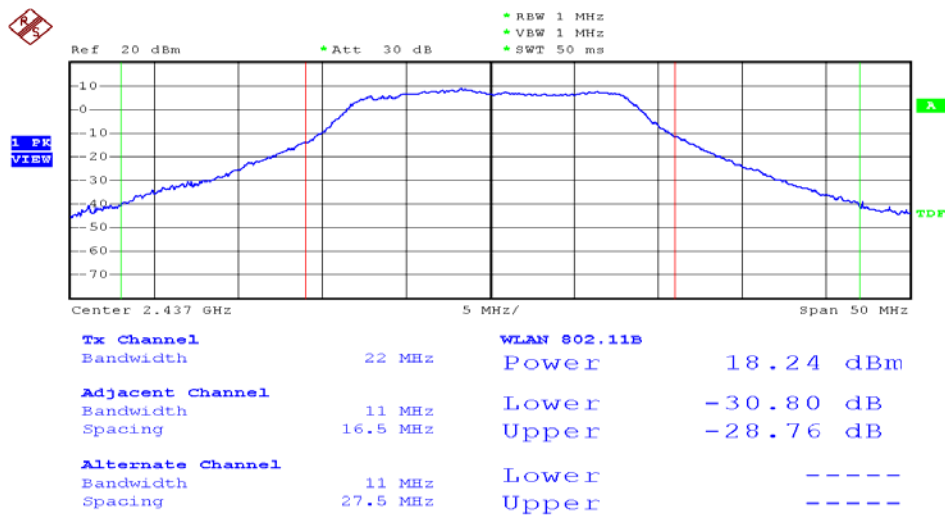
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 09:32:59

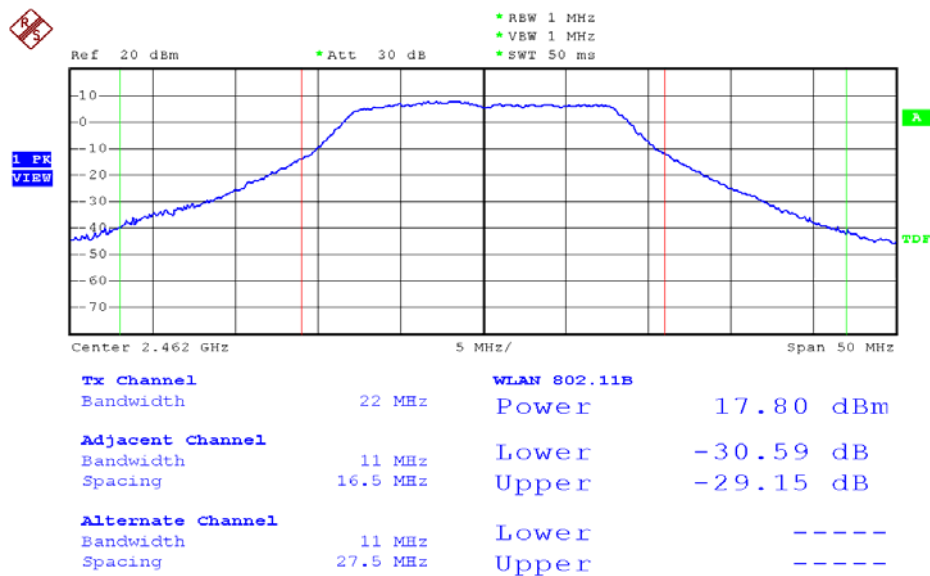


Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 09:36:17

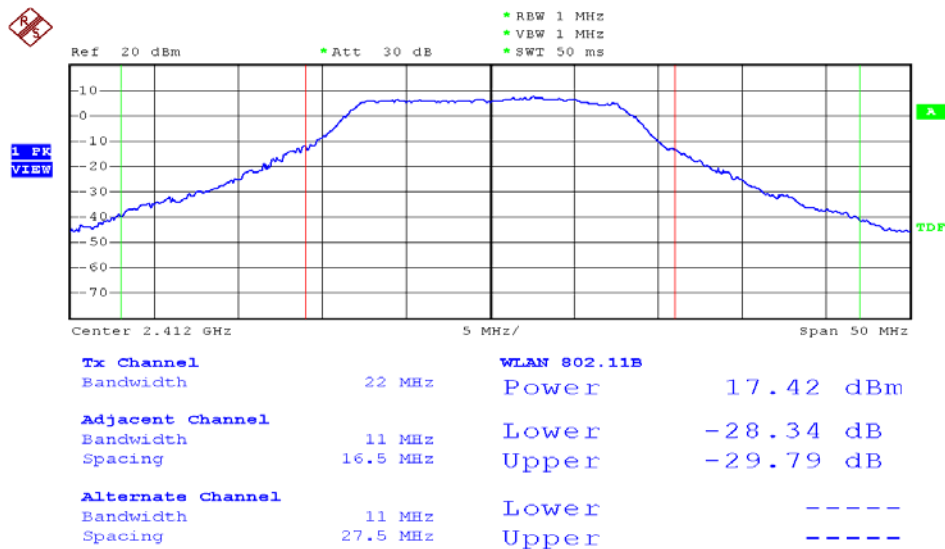
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 09:40:53

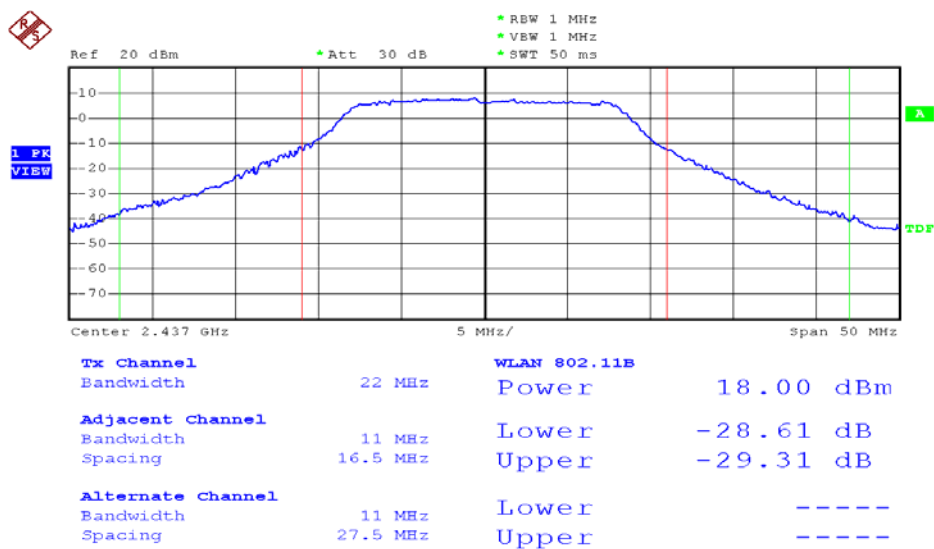


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 09:31:57

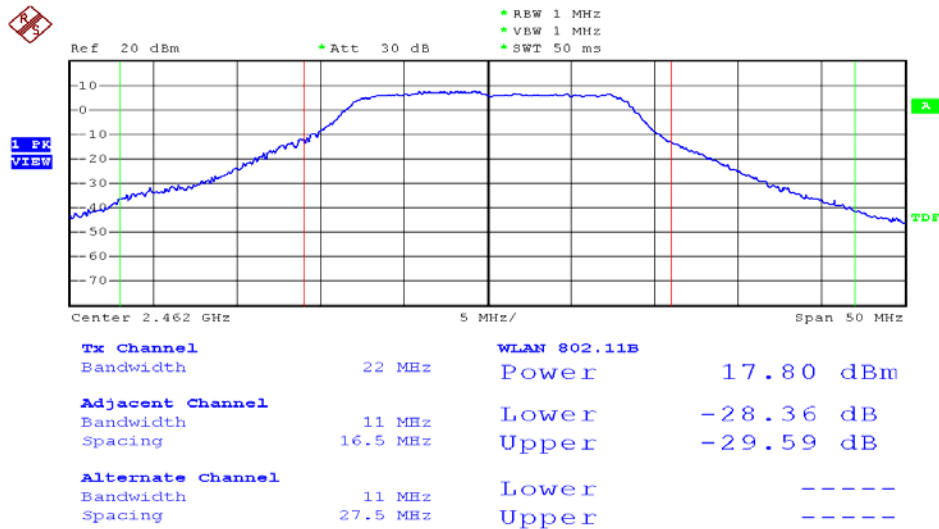
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 09:35:11

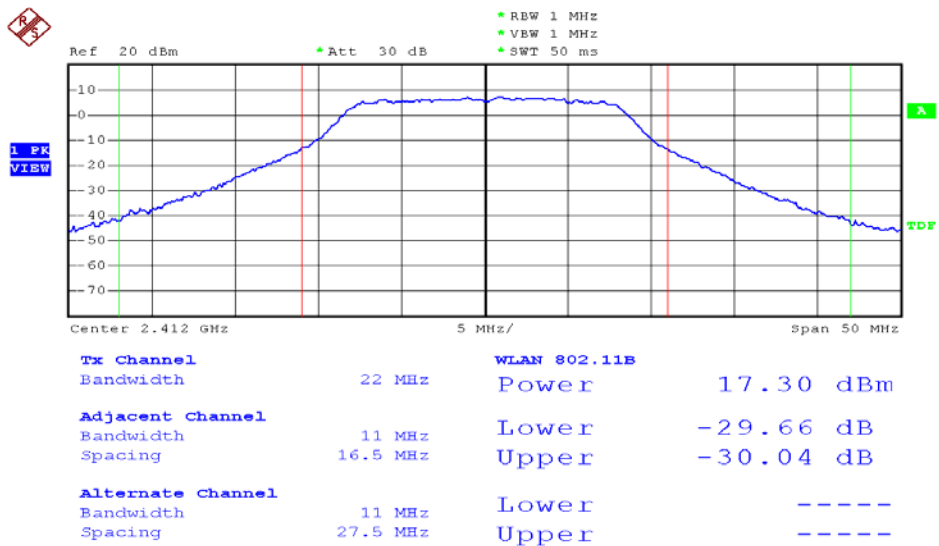


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 09:39:41

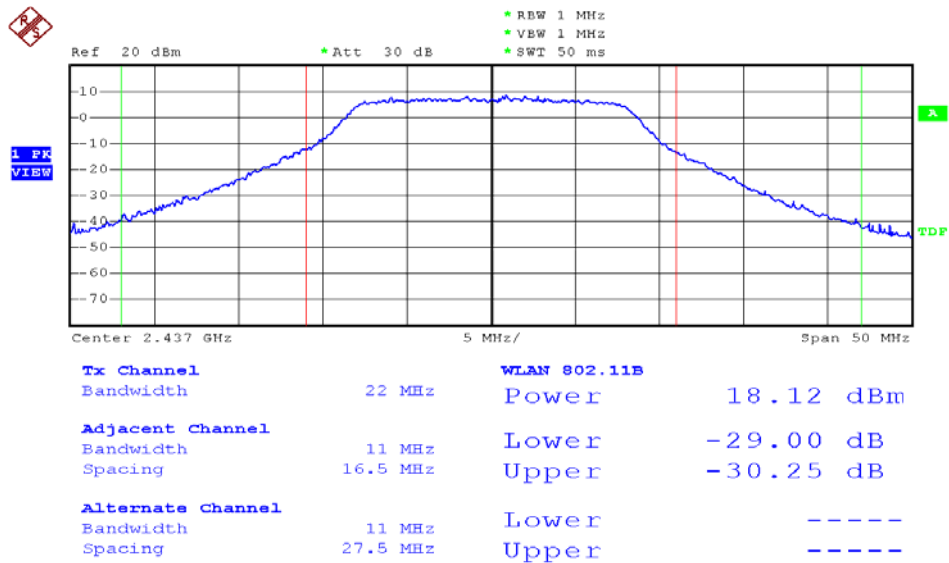
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 09:30:48

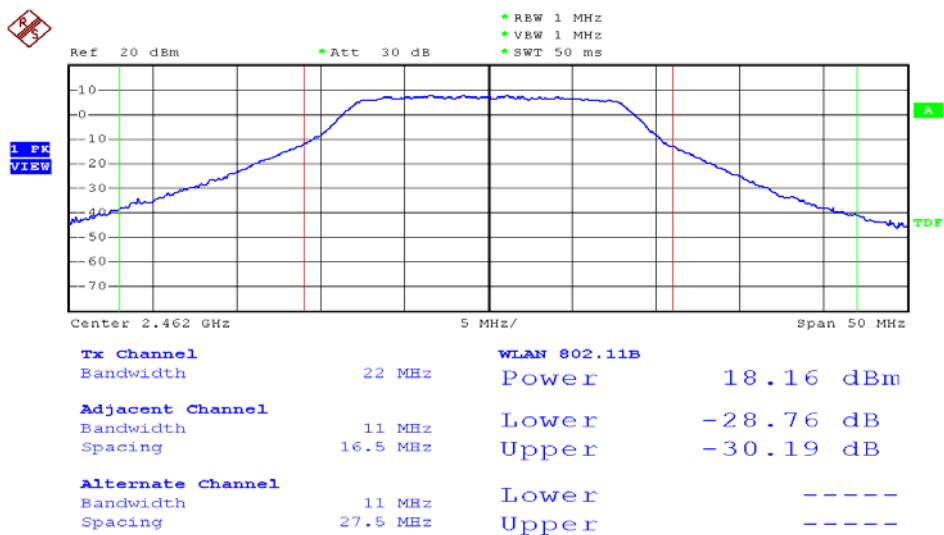


Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 09:34:26

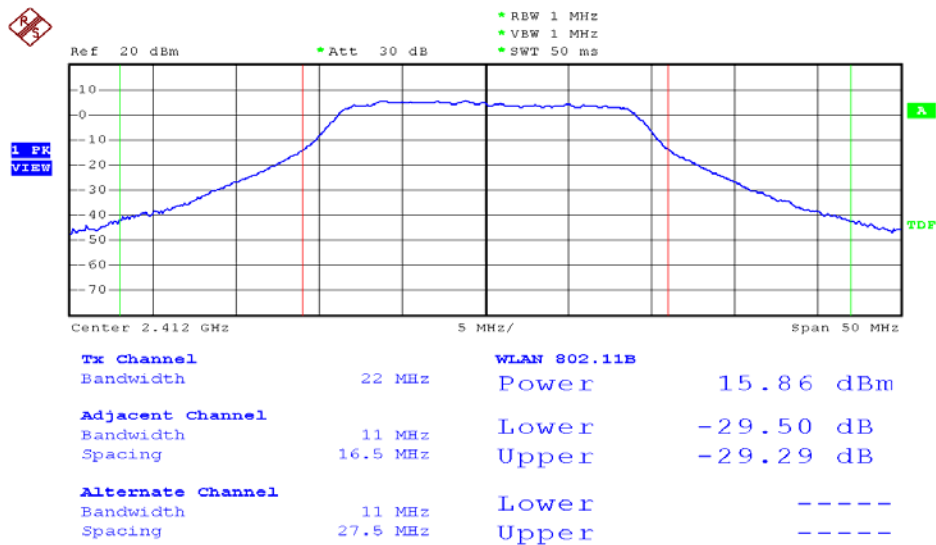
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 09:38:41

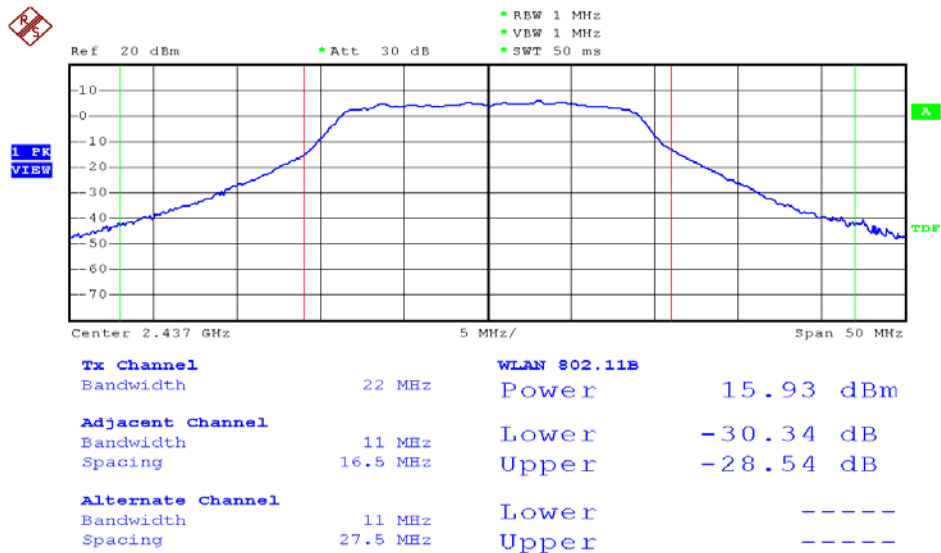


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 09:46:31

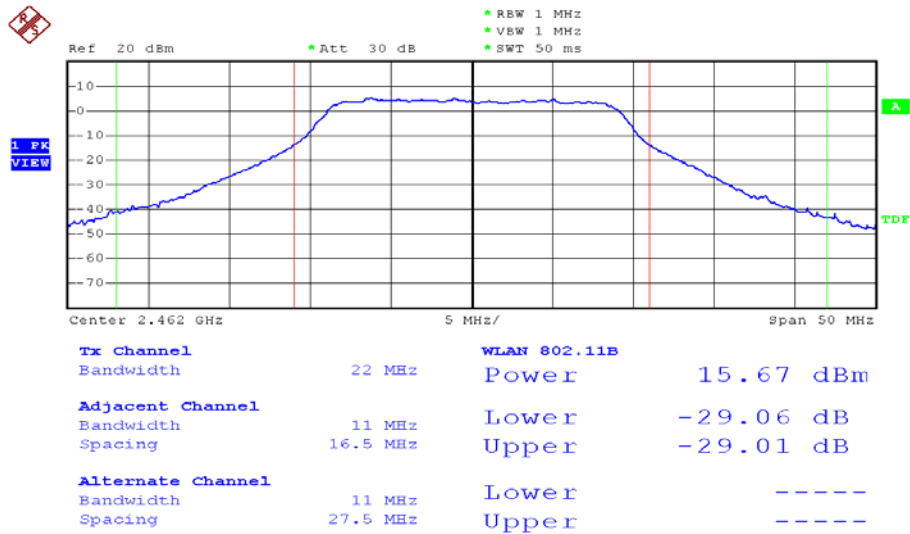
Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 09:52:49

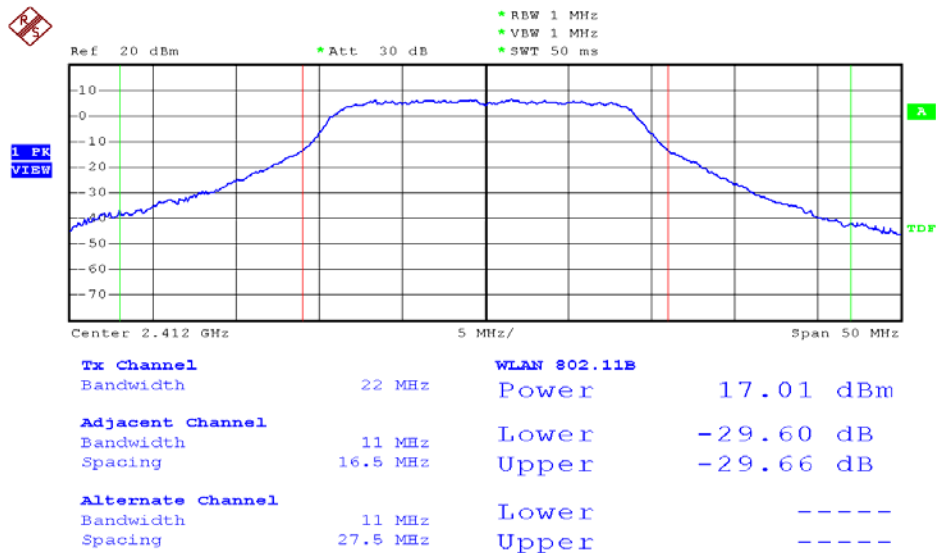


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 09:57:28

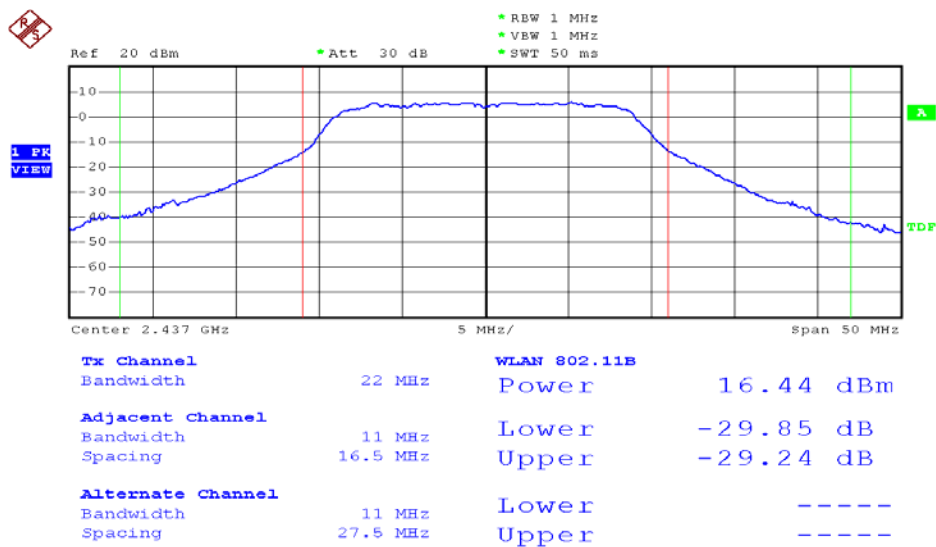
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 09:45:13

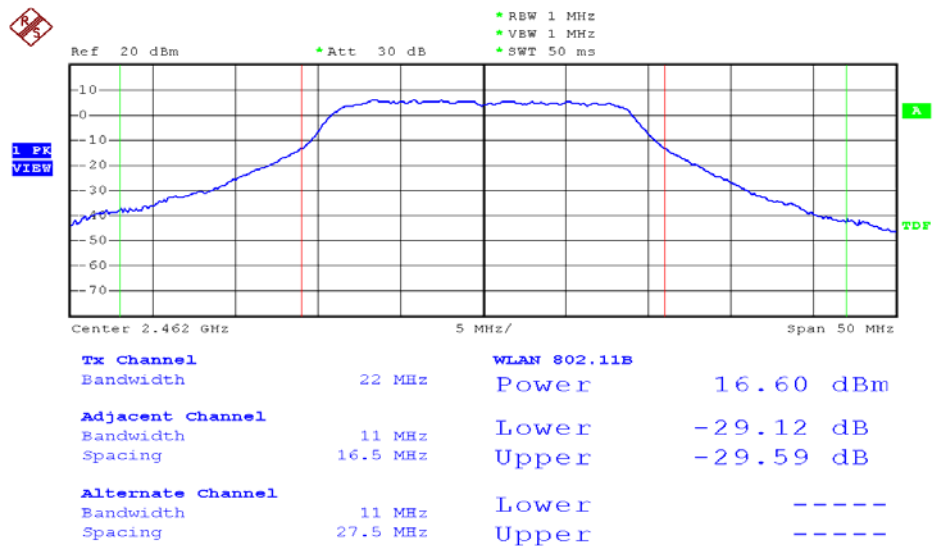


Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 09:51:14

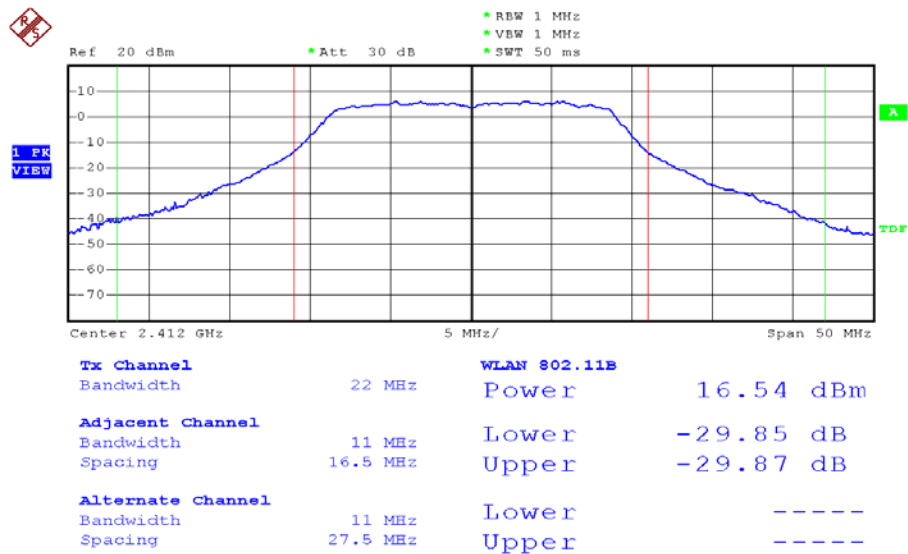
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 09:56:07

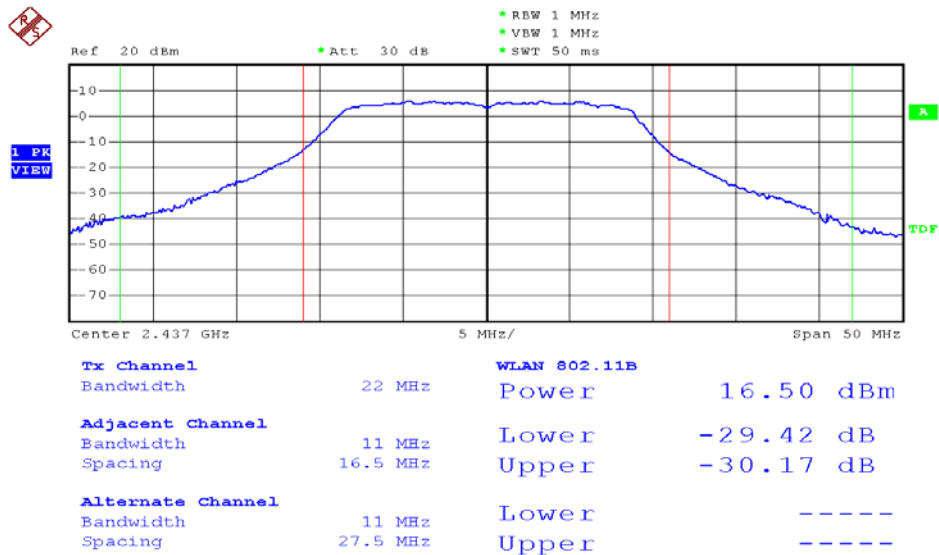


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 09:44:02

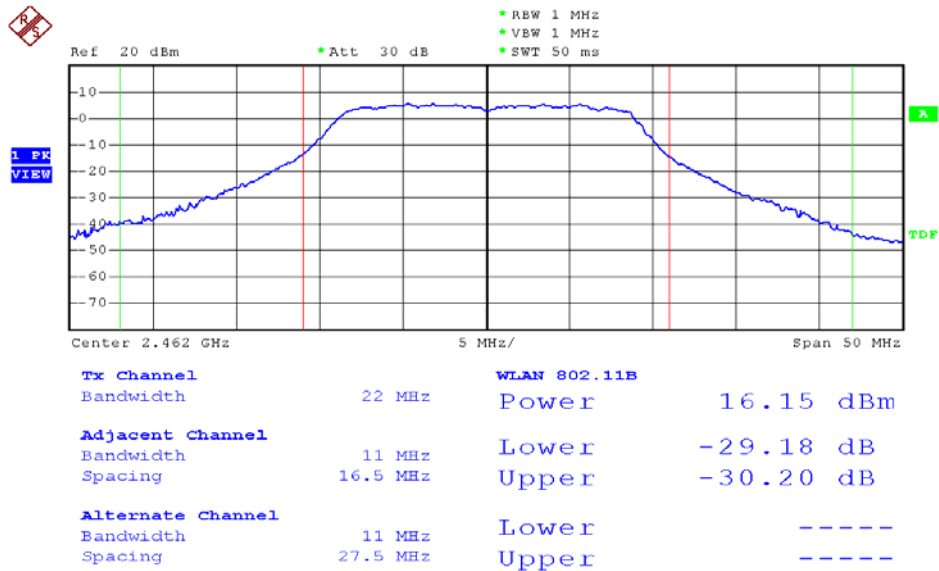
Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 09:49:21

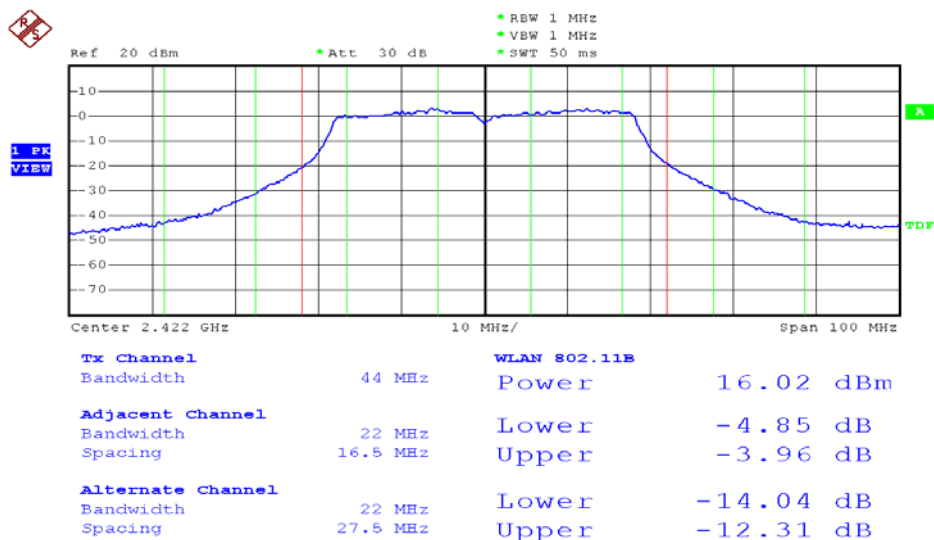


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 09:54:43

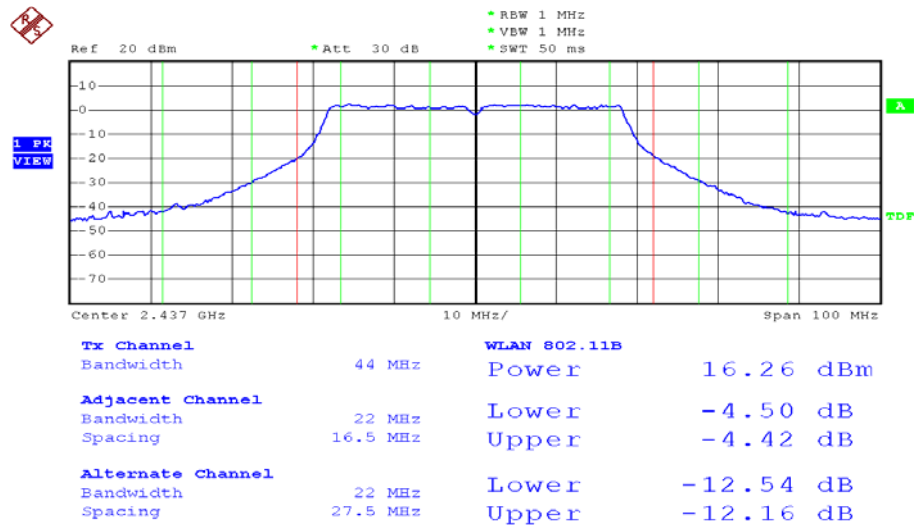
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 03



Date: 6.JAN.2009 10:03:00

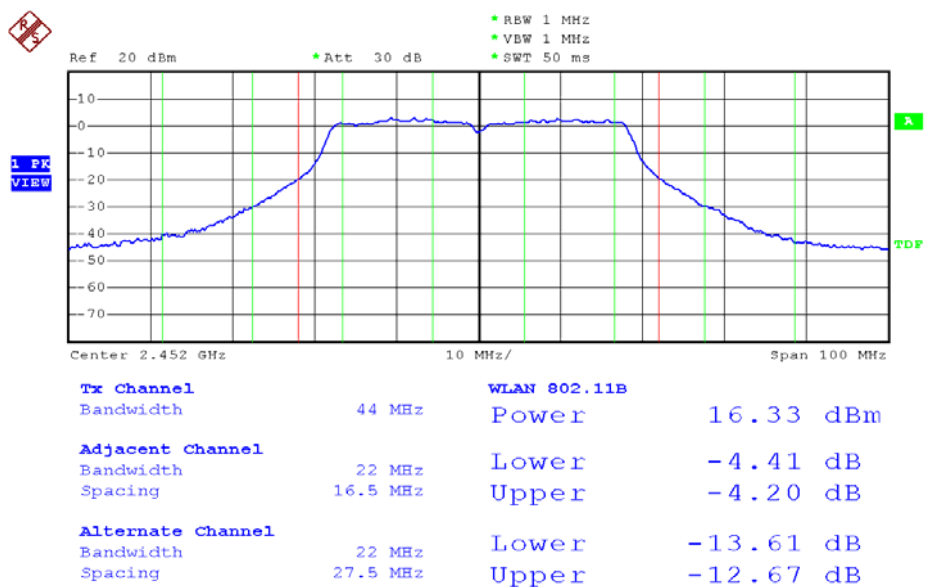


Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 10:07:25

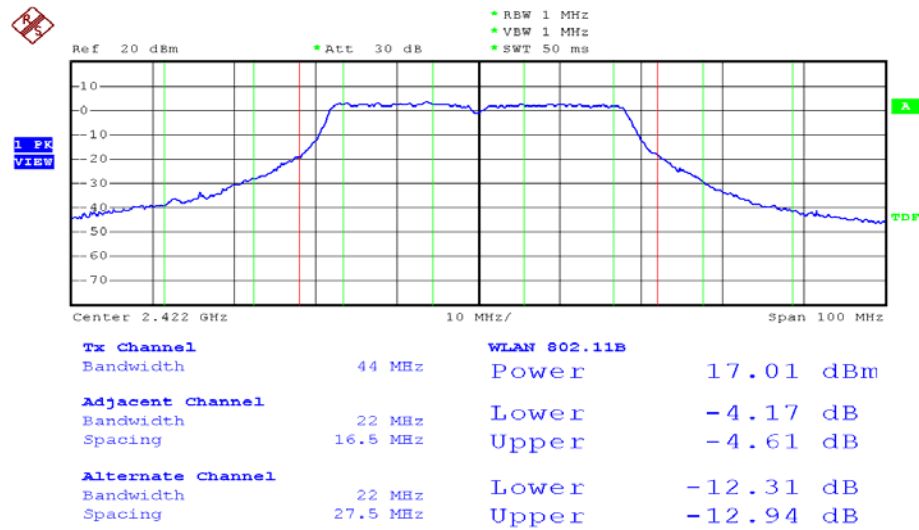
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 09



Date: 6.JAN.2009 10:16:15

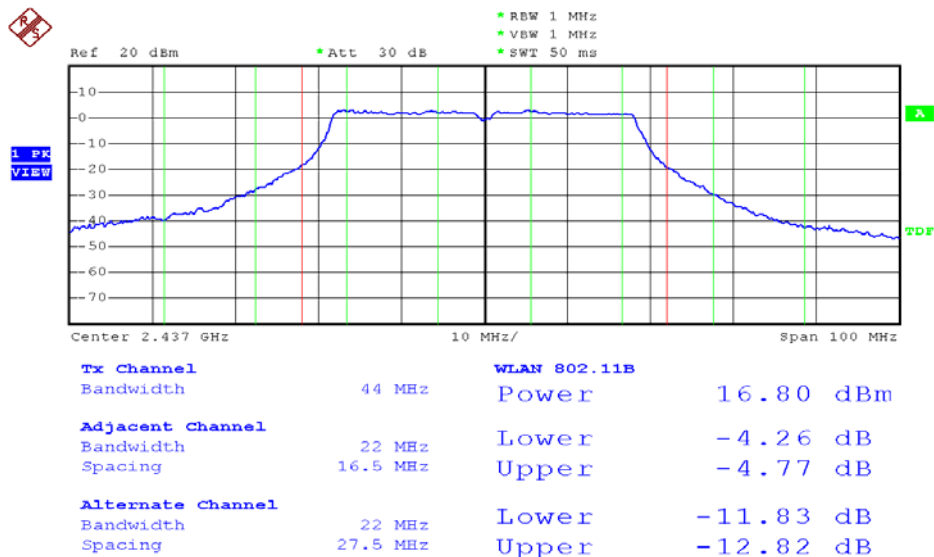


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 03



Date: 6.JAN.2009 10:02:03

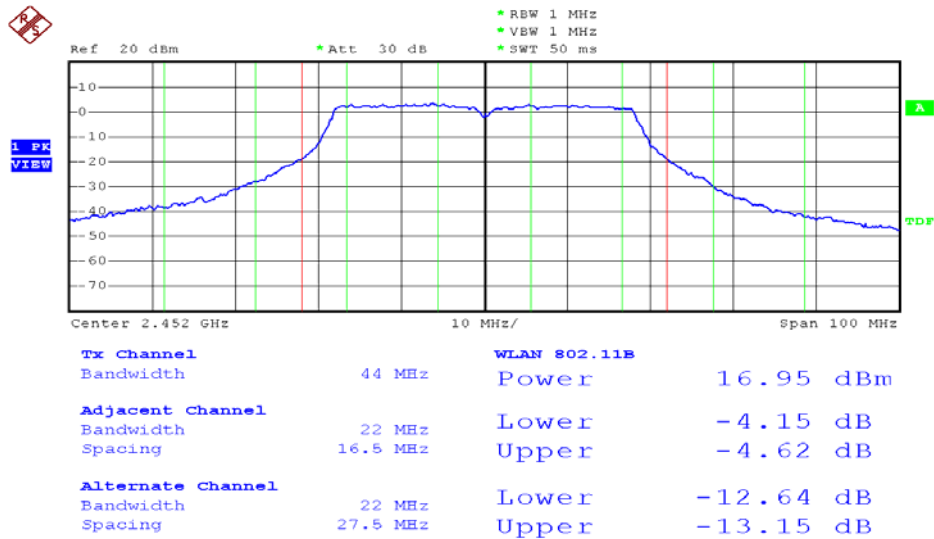
Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 10:06:13

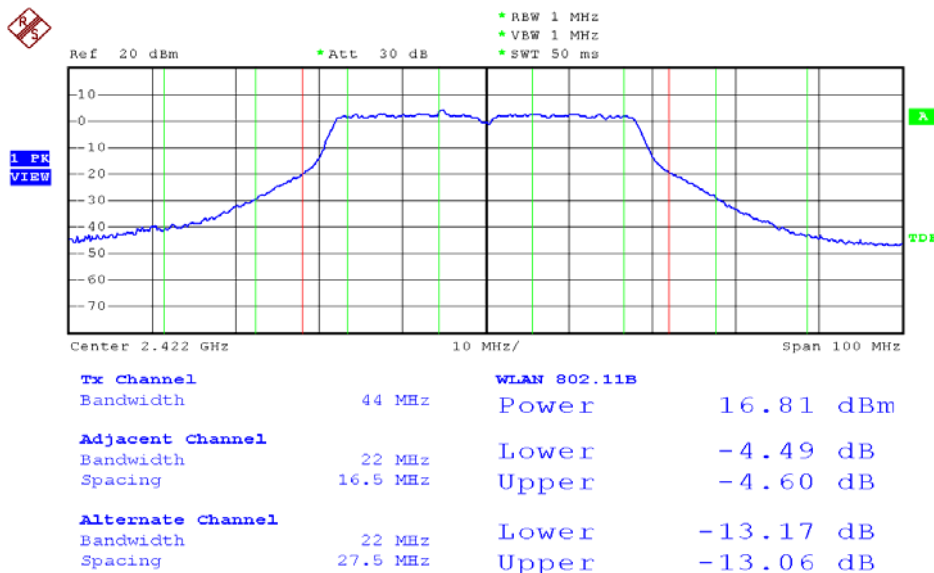


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 09



Date: 6.JAN.2009 10:15:10

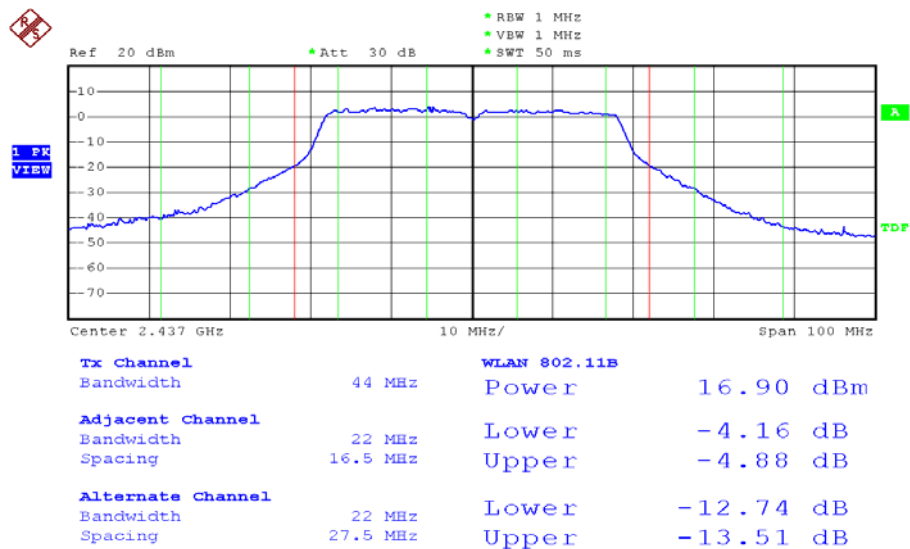
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 03



Date: 6.JAN.2009 10:01:14

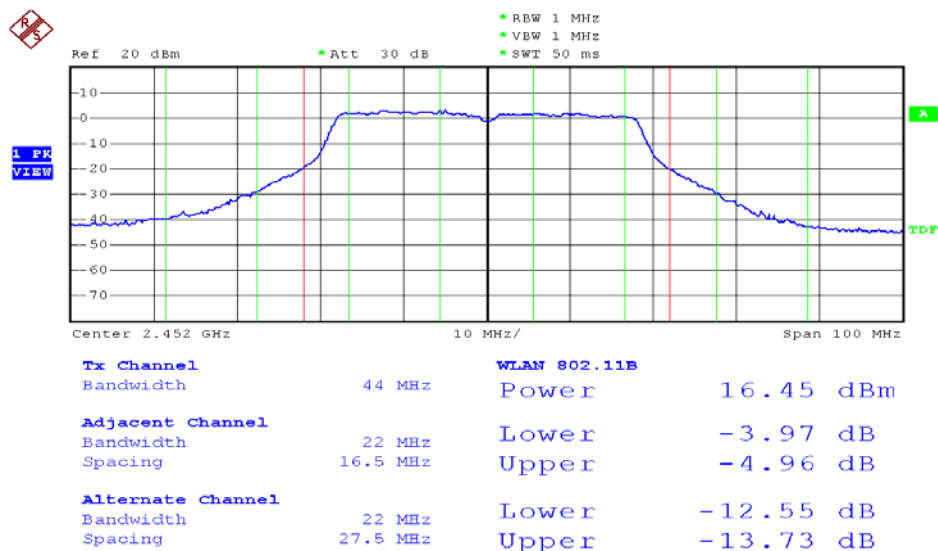


Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 10:05:02

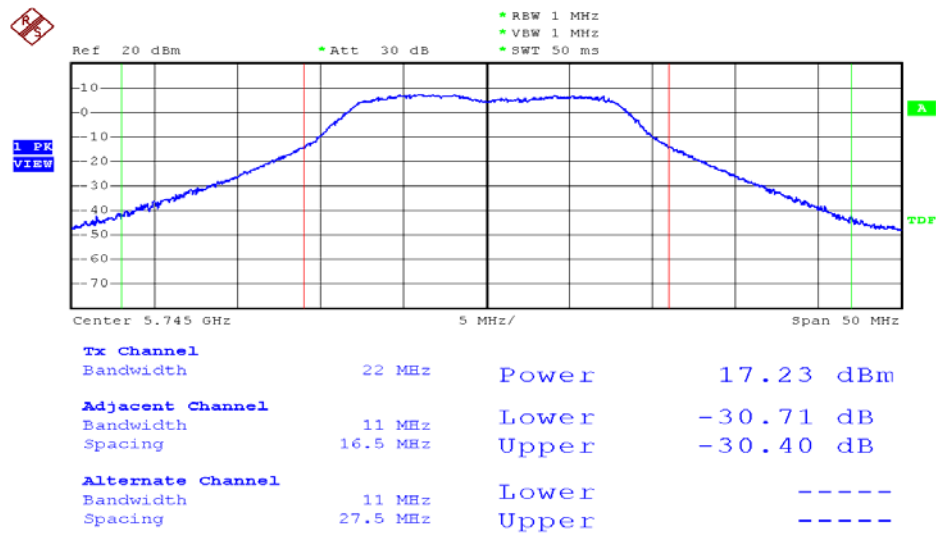
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 09



Date: 6.JAN.2009 10:12:39

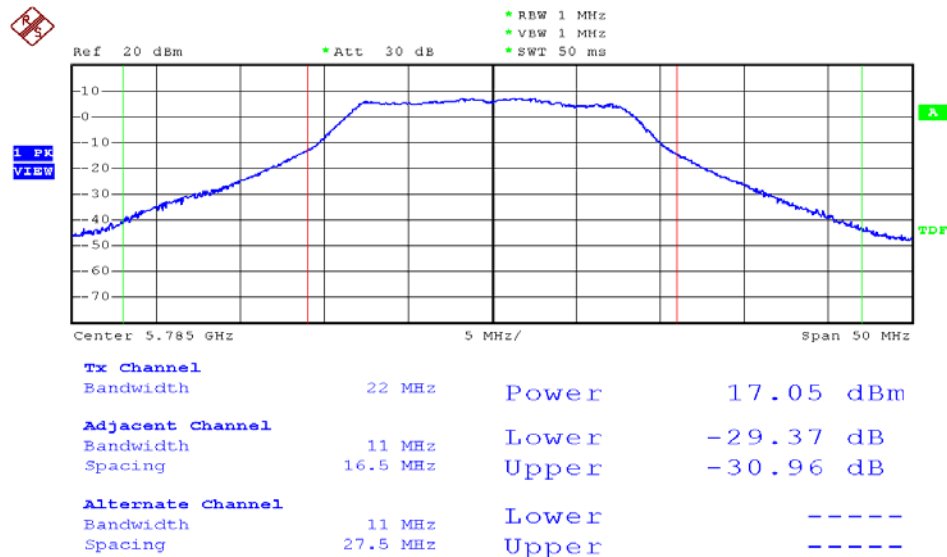


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 149



Date: 8.JAN.2009 17:46:02

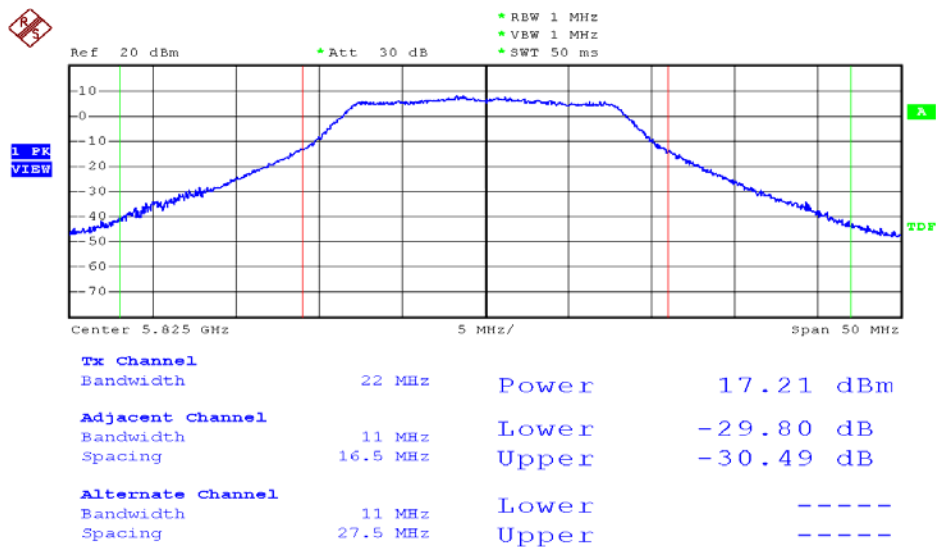
Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 157



Date: 8.JAN.2009 17:52:20

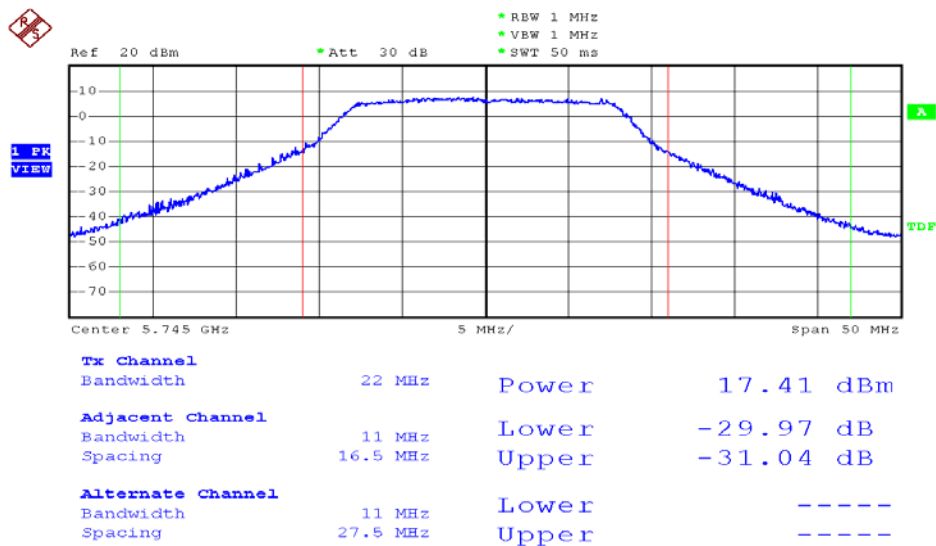


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 165



Date: 8.JAN.2009 17:59:29

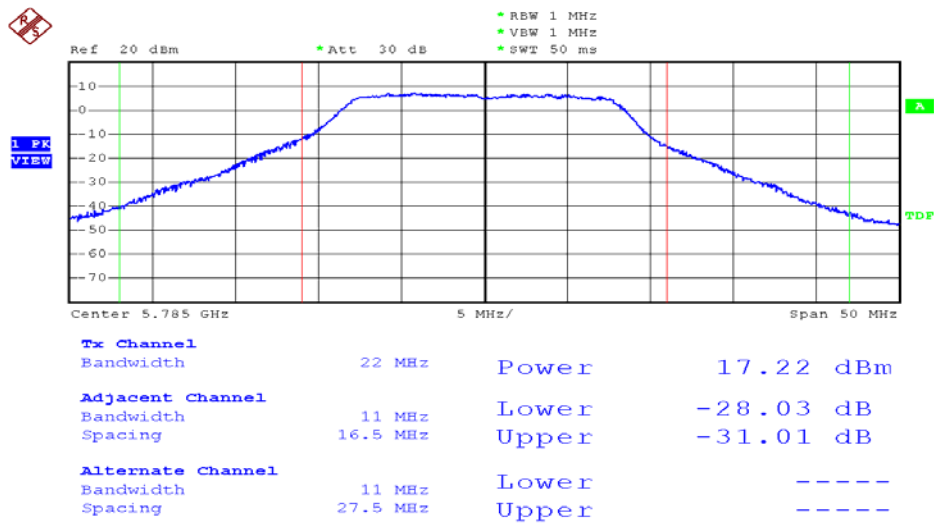
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 149



Date: 8.JAN.2009 17:44:32

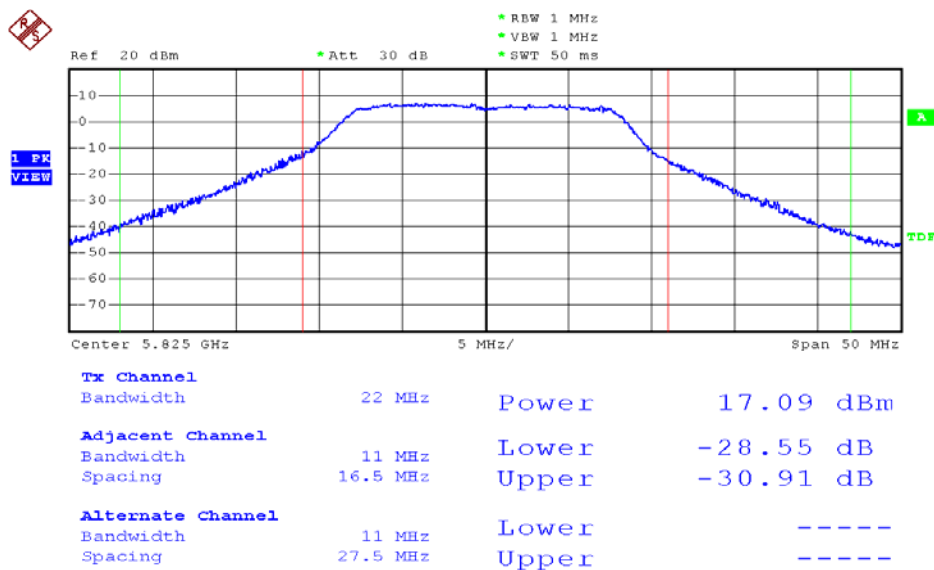


Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 157



Date: 8.JAN.2009 17:50:19

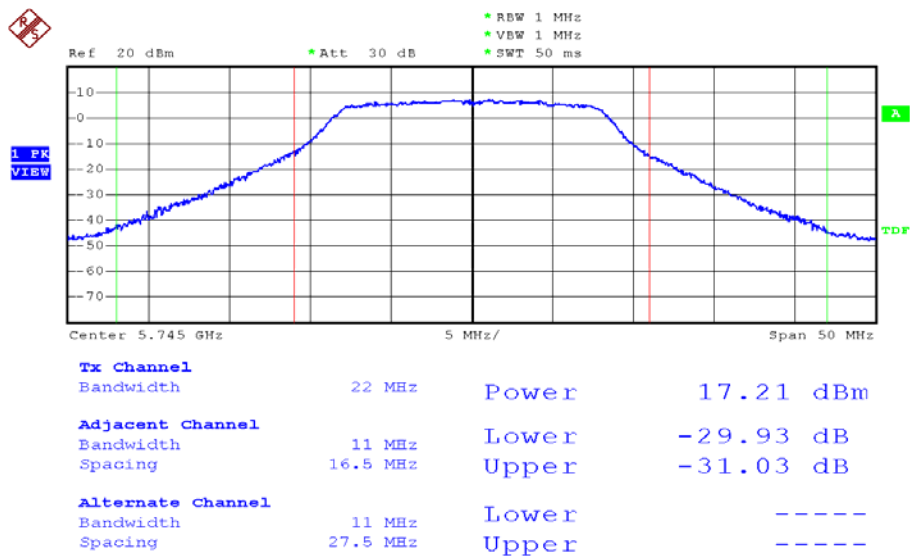
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 165



Date: 8.JAN.2009 17:56:41

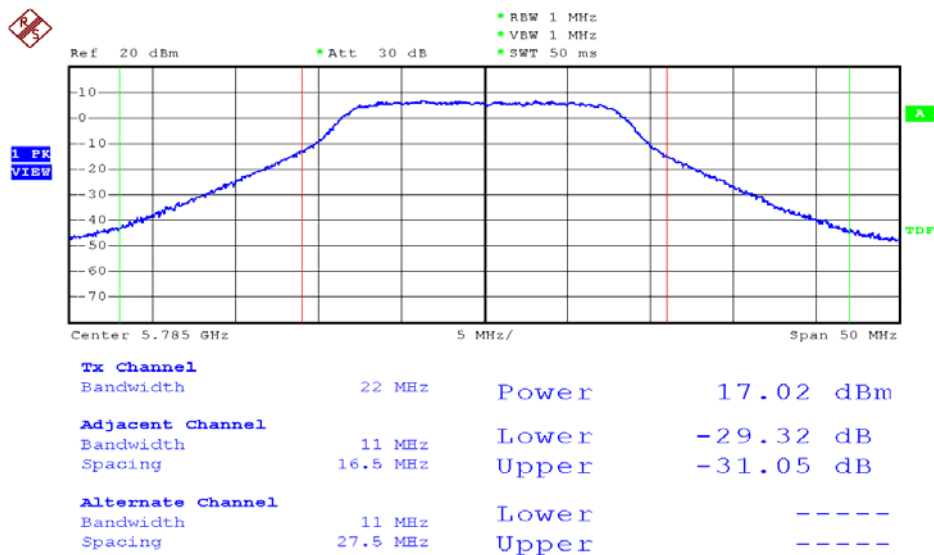


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 149



Date: 8.JAN.2009 17:43:56

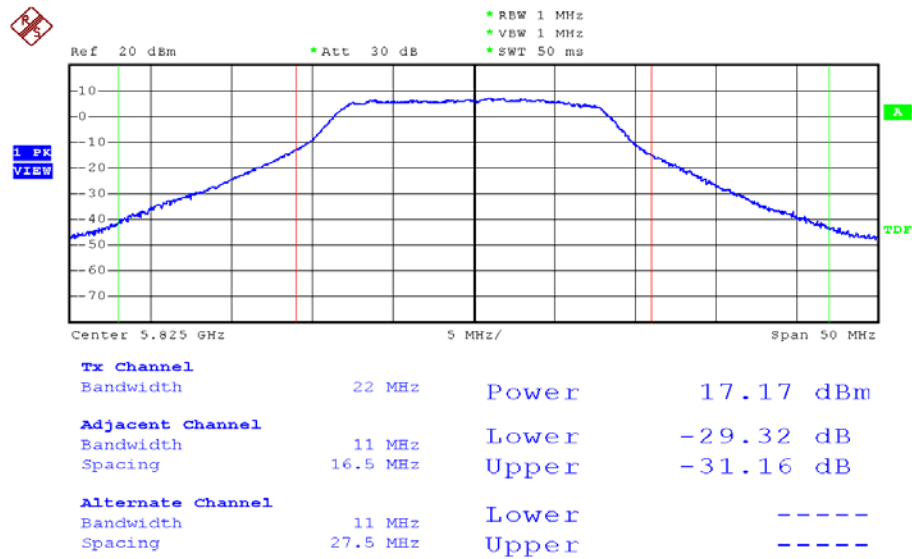
Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 157



Date: 8.JAN.2009 17:48:31

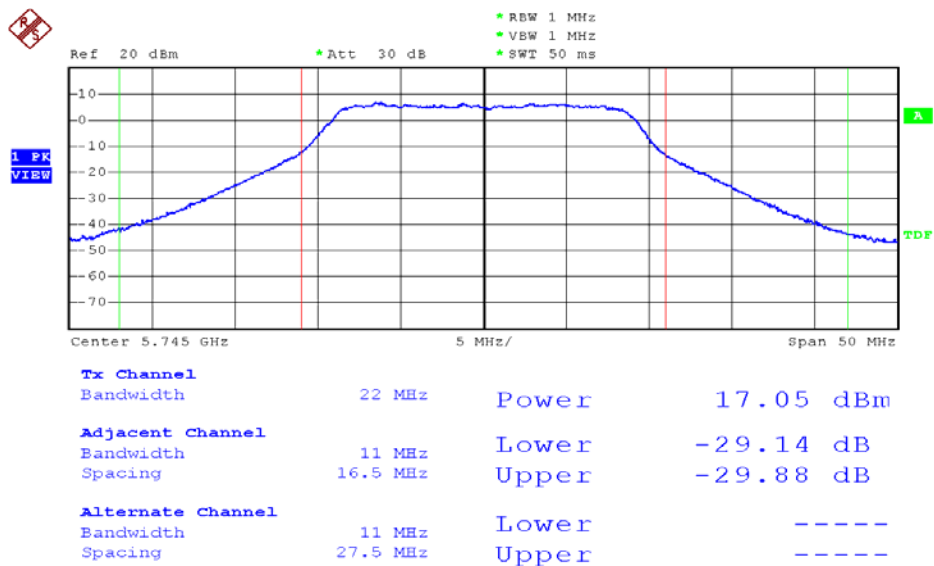


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 165



Date: 8.JAN.2009 17:54:39

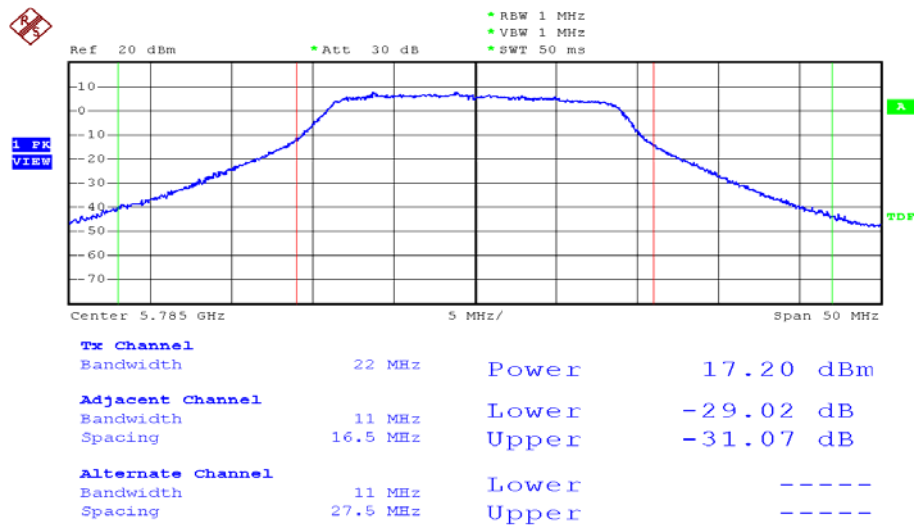
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 149



Date: 8.JAN.2009 18:09:33

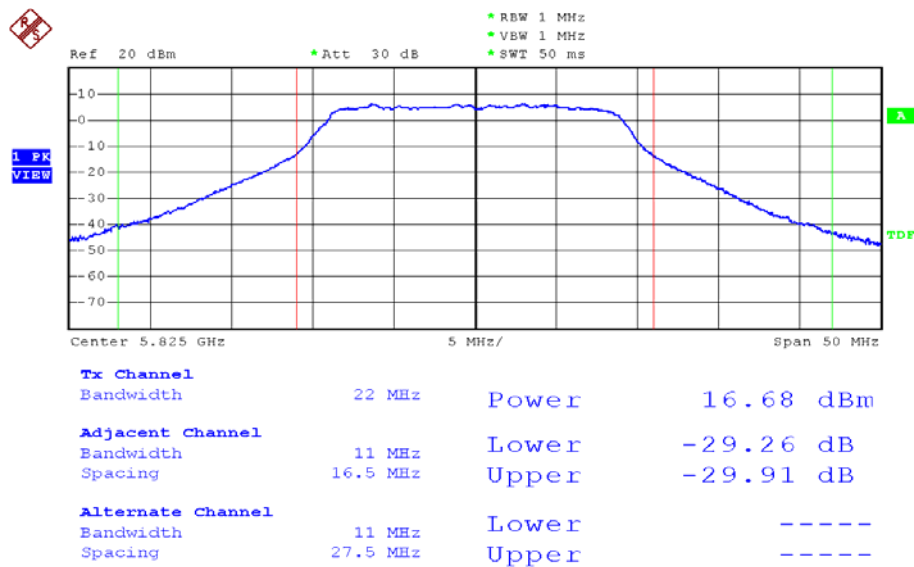


Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 157



Date: 8.JAN.2009 18:11:06

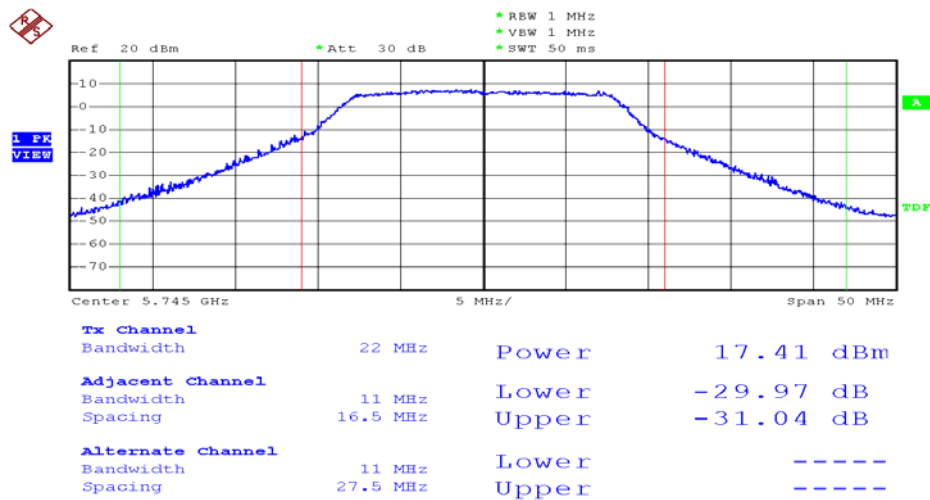
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 165



Date: 8.JAN.2009 18:17:58

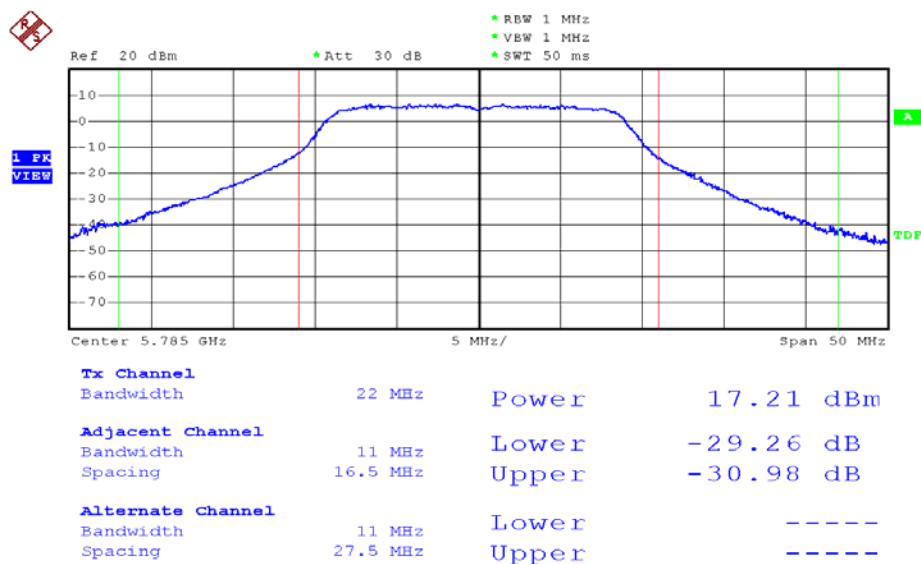


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 149



Date: 8.JAN.2009 17:44:32

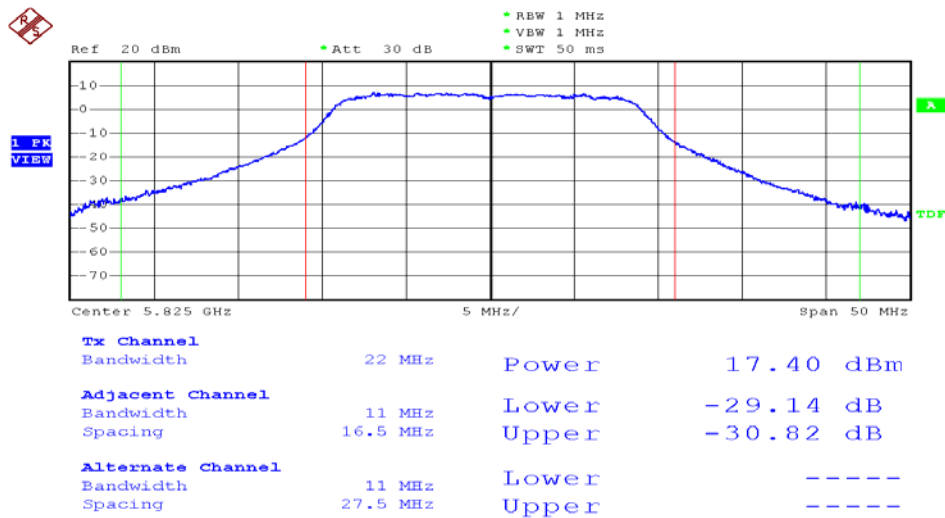
Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 157



Date: 8.JAN.2009 18:14:01

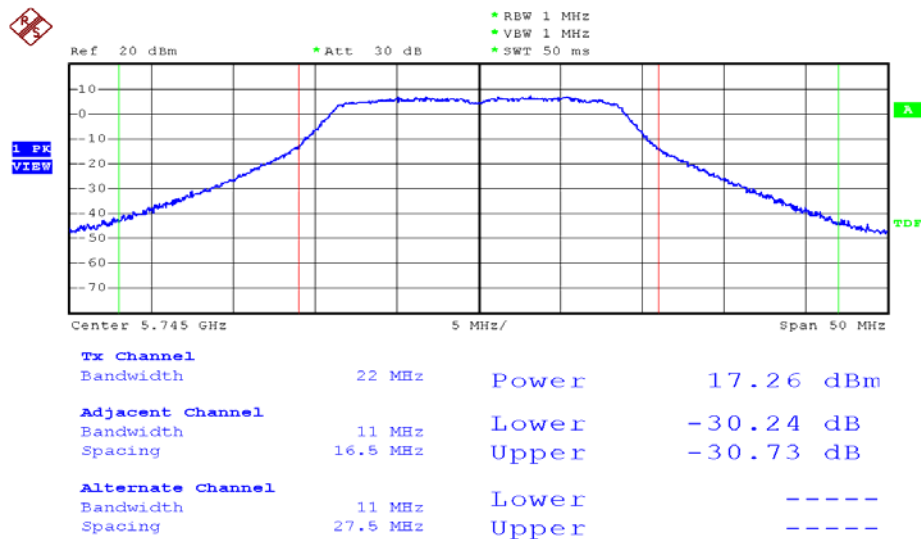


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 165



Date: 8.JAN.2009 18:20:15

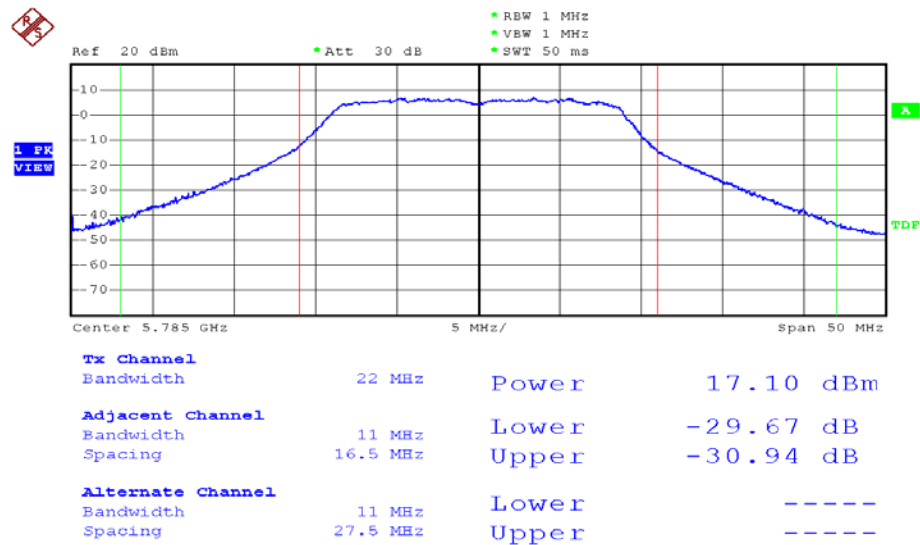
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 149



Date: 8.JAN.2009 18:04:12

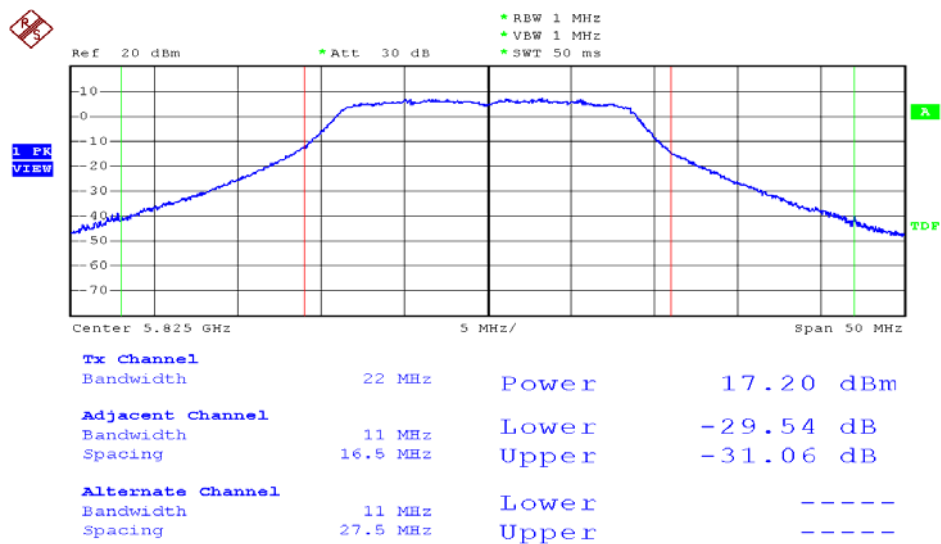


Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 157



Date: 8.JAN.2009 18:12:07

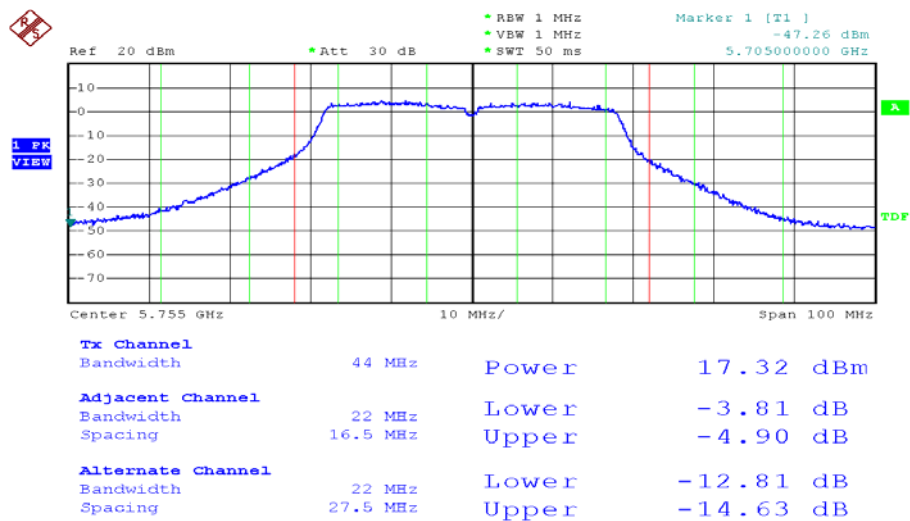
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 165



Date: 8.JAN.2009 18:15:52

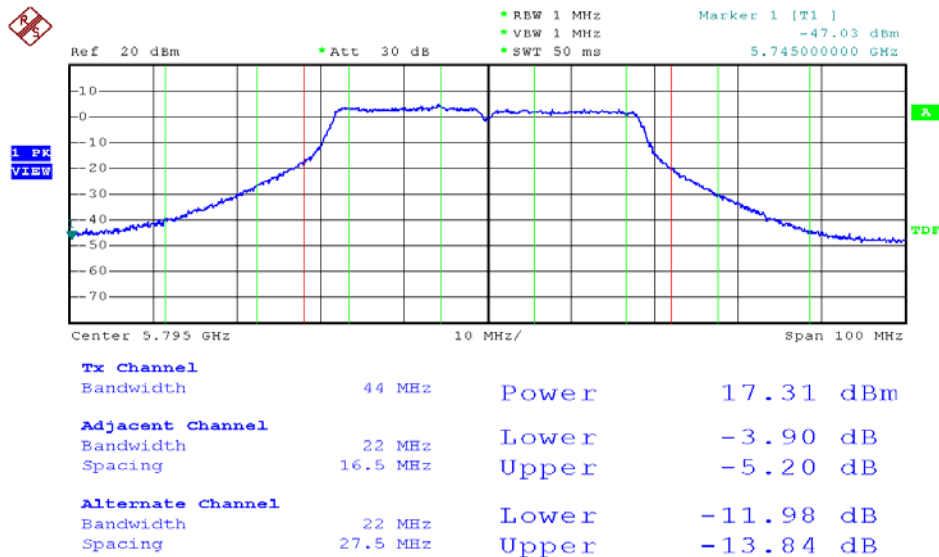


Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 151



Date: 8.JAN.2009 18:43:37

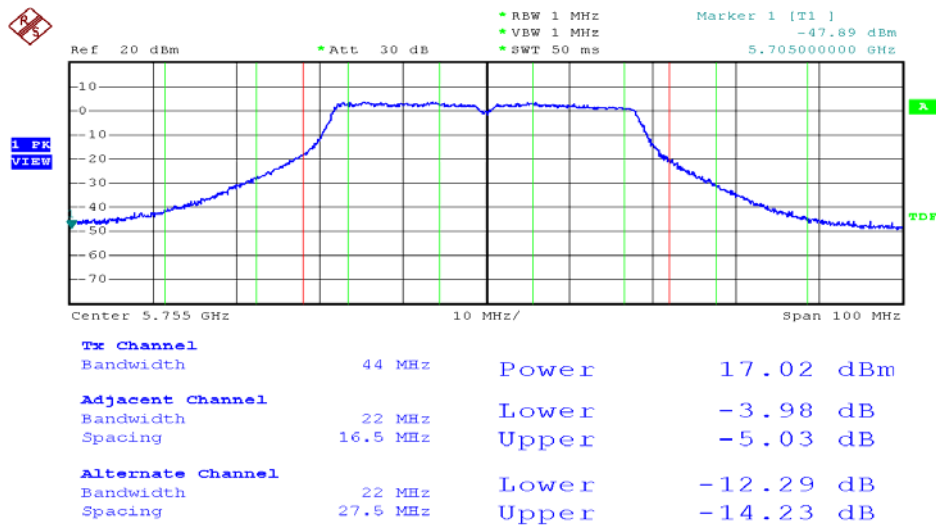
Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 159



Date: 8.JAN.2009 18:46:54

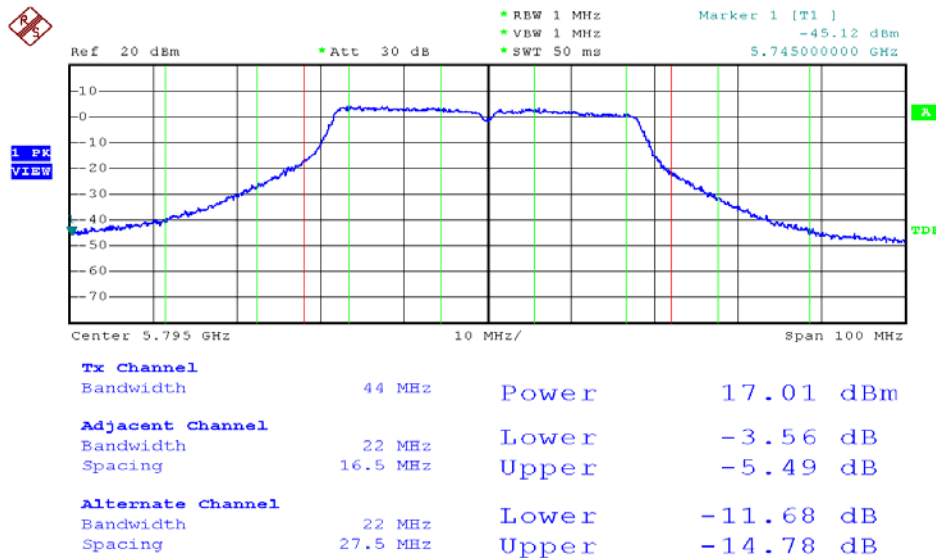


Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 151



Date: 8.JAN.2009 18:44:27

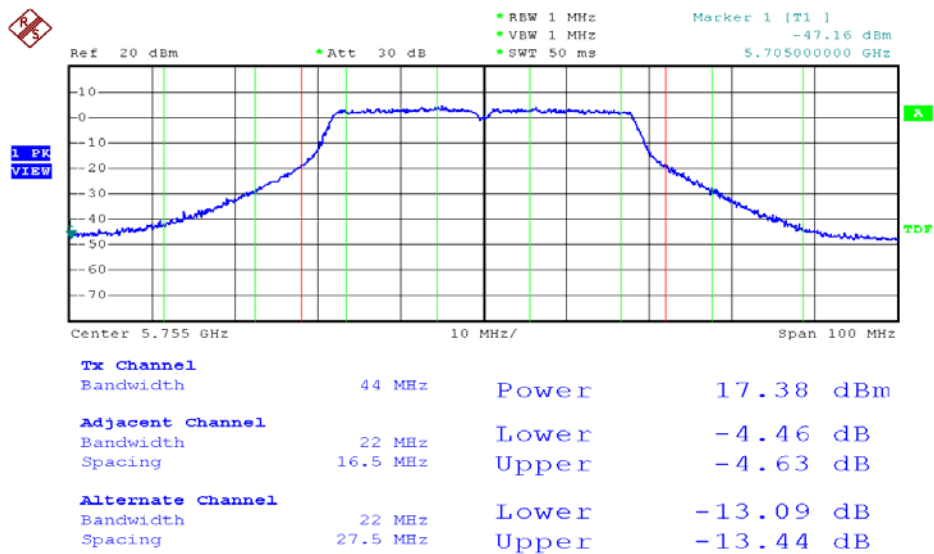
Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 159



Date: 8.JAN.2009 18:48:12

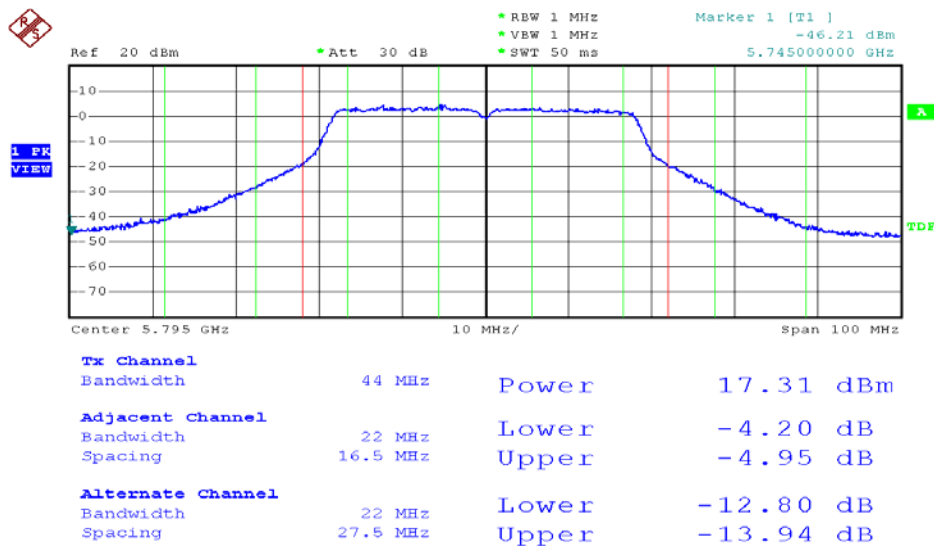


Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 151



Date: 8.JAN.2009 18:42:43

Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 159



Date: 8.JAN.2009 18:45:55



8. Power Spectral Density

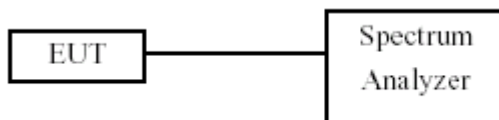
8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

8.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
- The power spectral density was measured and recorded.
- The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

8.3 Test Setup Layout



8.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



8.5 Test Result and Data

Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			Ant1	Ant2	Ant3
802.11b (11Mbps)	01	2412	-11.79	-12.01	-12.58
	06	2437	-11.91	-11.54	-11.53
	11	2462	-11.37	-11.36	-11.36
802.11g (54Mbps)	01	2412	-18.97	-16.50	-16.83
	06	2437	-14.97	-15.77	-15.97
	11	2462	-14.72	-16.96	-16.18

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)			
			Ant1	Ant2	Ant3	Ant1+2+3
802.11n HT20 (104Mbps)	01	2412	-12.80	-11.21	-12.47	-7.33
	06	2437	-19.05	-17.49	-17.39	-13.14
	11	2462	-18.43	-17.42	-22.87	-14.24
802.11n HT40 (108Mbps)	03	2422	-22.50	-22.52	-22.52	-17.74
	06	2437	-22.65	-21.10	-21.58	-16.96
	09	2452	-25.99	-21.14	-22.03	-17.83

Test Date: Jan. 09, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

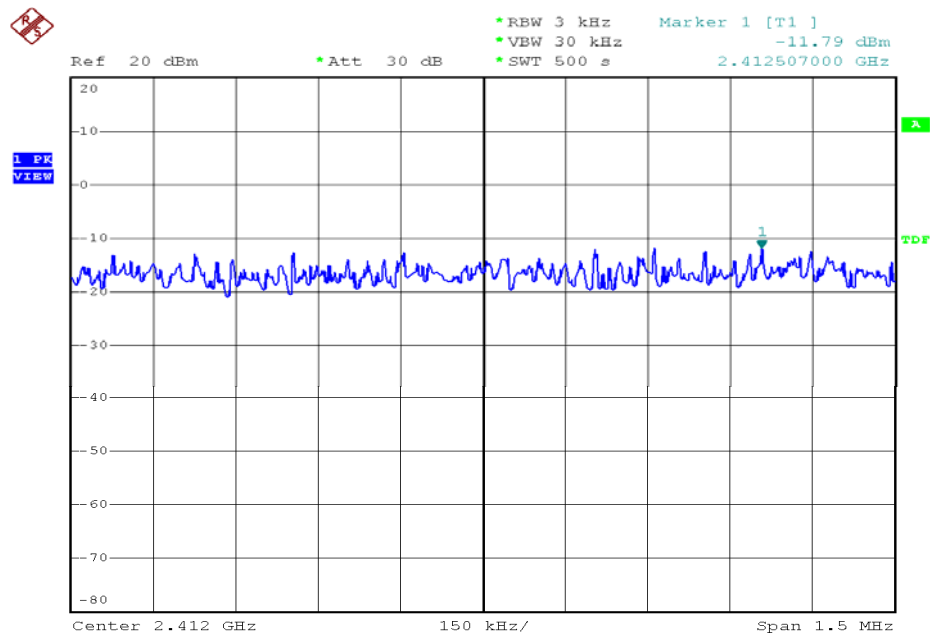
Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			Ant1	Ant2	Ant3
802.11a (54Mbps)	149	5745	-17.05	-15.56	-16.62
	157	5785	-14.78	-17.09	-16.29
	165	5825	-15.06	-17.82	-16.26

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)			
			Ant1	Ant2	Ant3	Ant1+2+3
802.11an HT20 (104Mbps)	149	5745	-17.9	-15.56	-16.4	-11.74
	157	5785	-15.85	-16.92	-15.68	-11.35
	165	5825	-17.24	-17.24	-15.63	-11.86
802.11an HT40 (108Mbps)	151	5755	-20.83	19.96	-20.66	-15.70
	159	5795	-22.36	-23.72	-19.91	-16.93

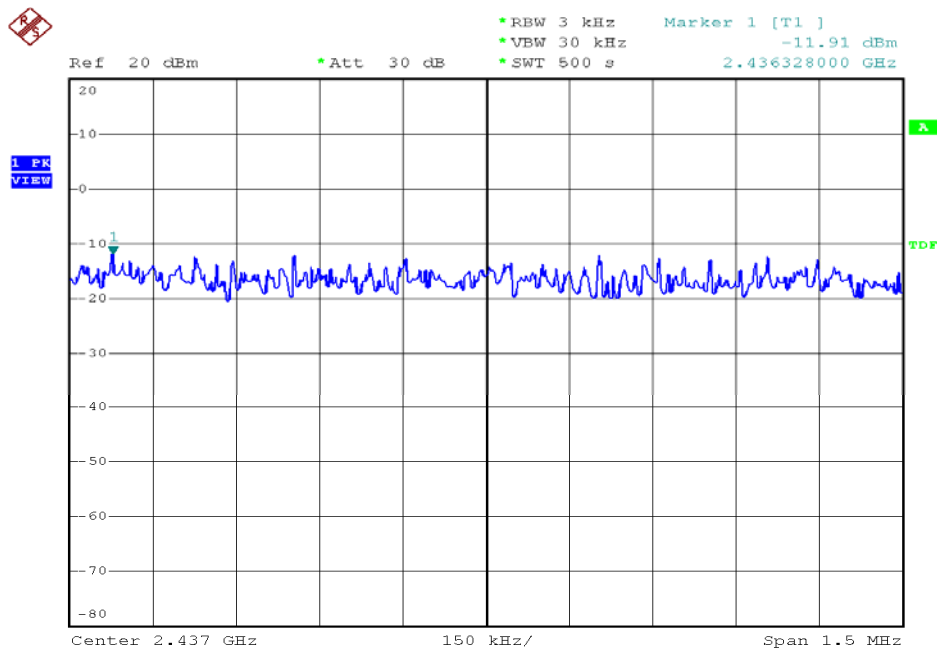


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 15:22:57

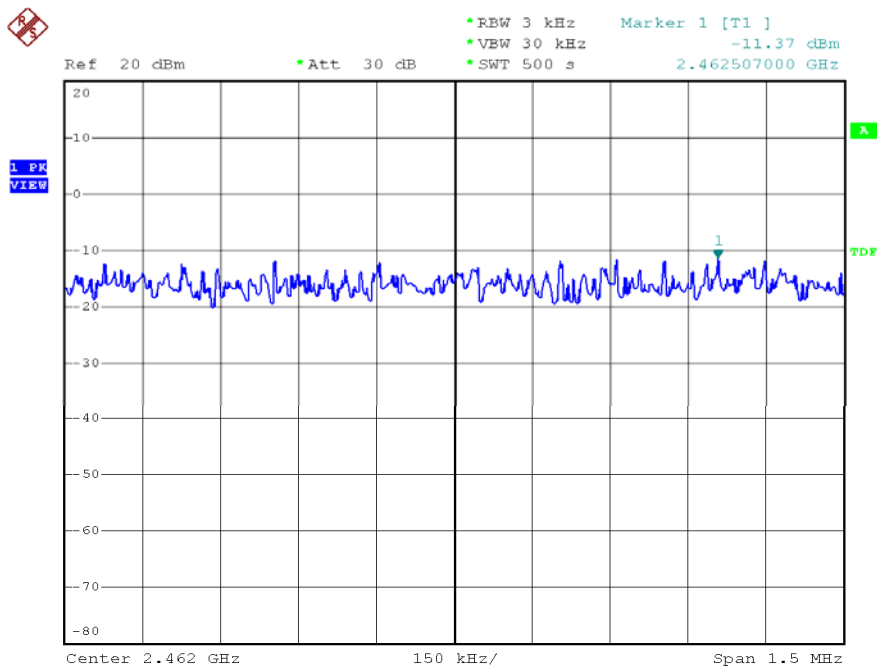
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 16:06:01

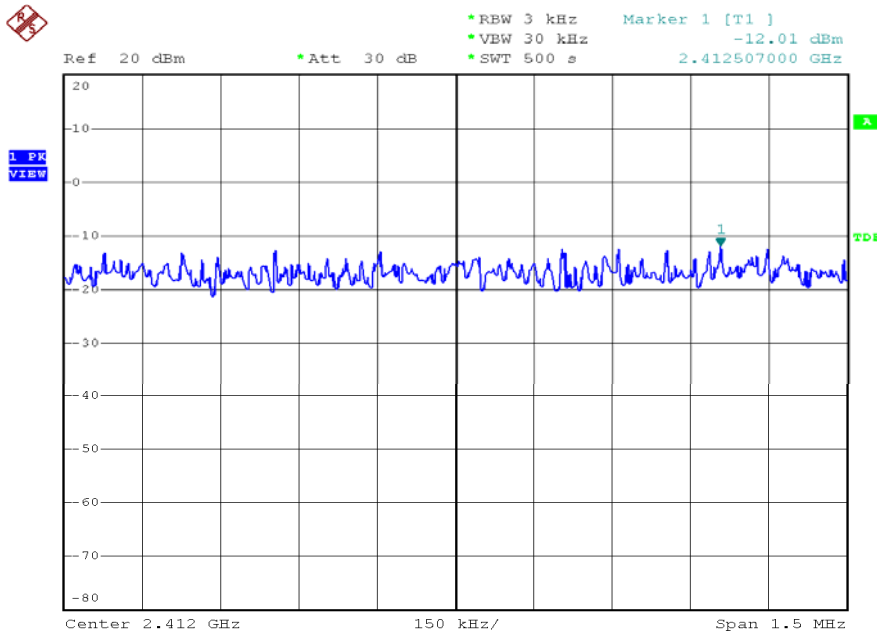


Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 16:32:12

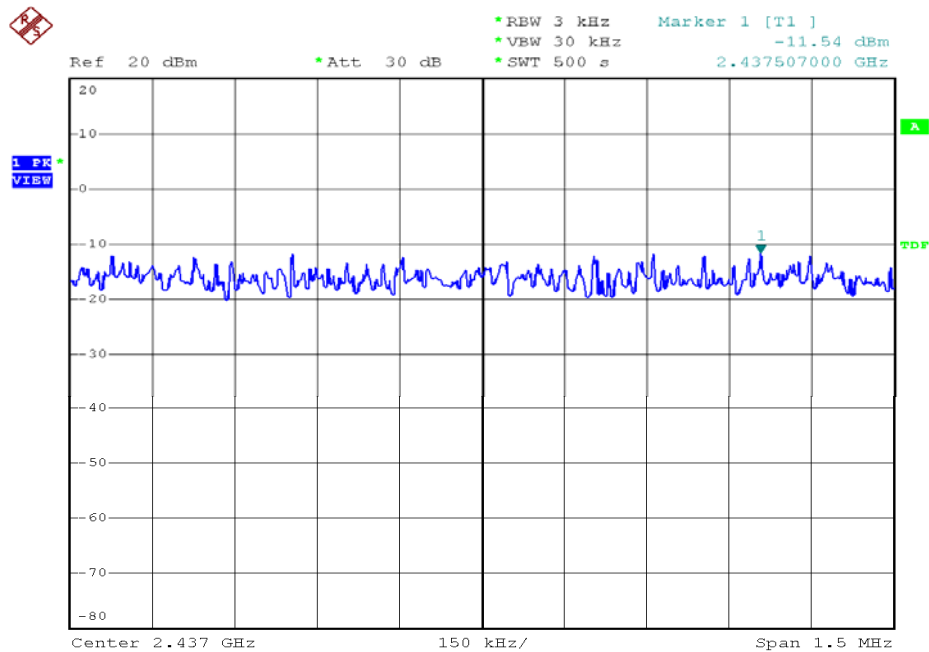
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 14:59:34

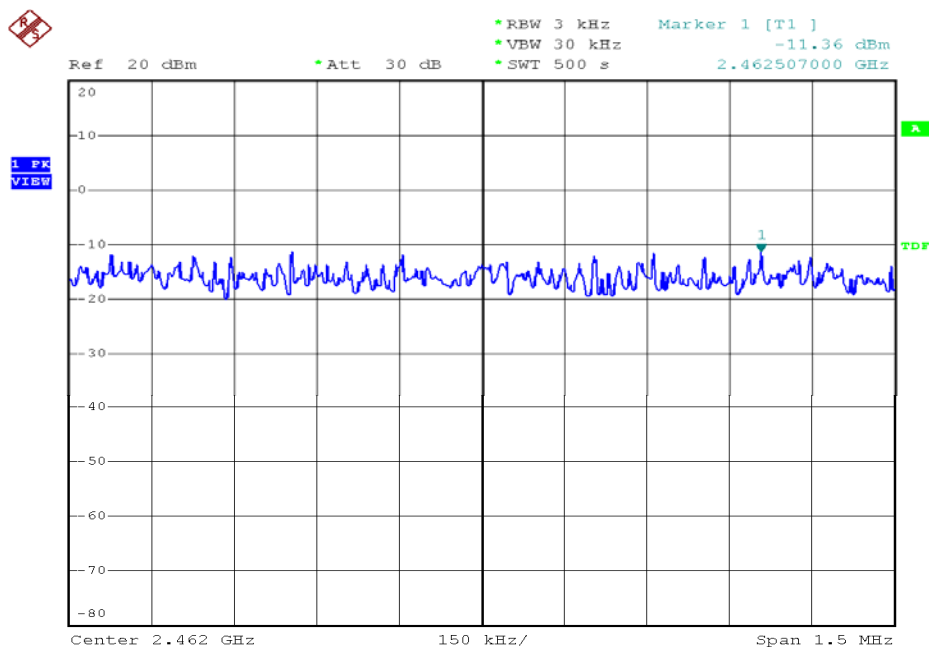


Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 15:53:58

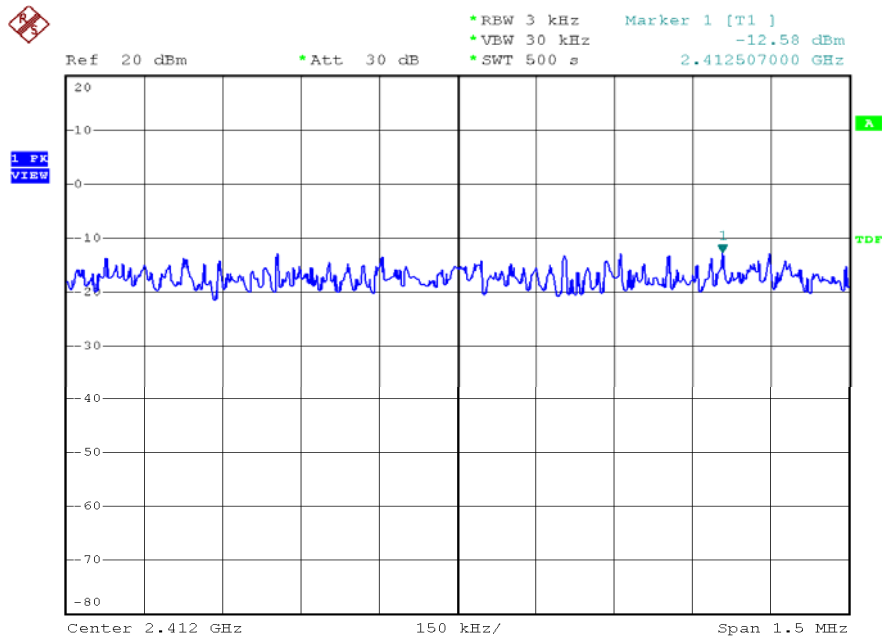
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 16:20:46

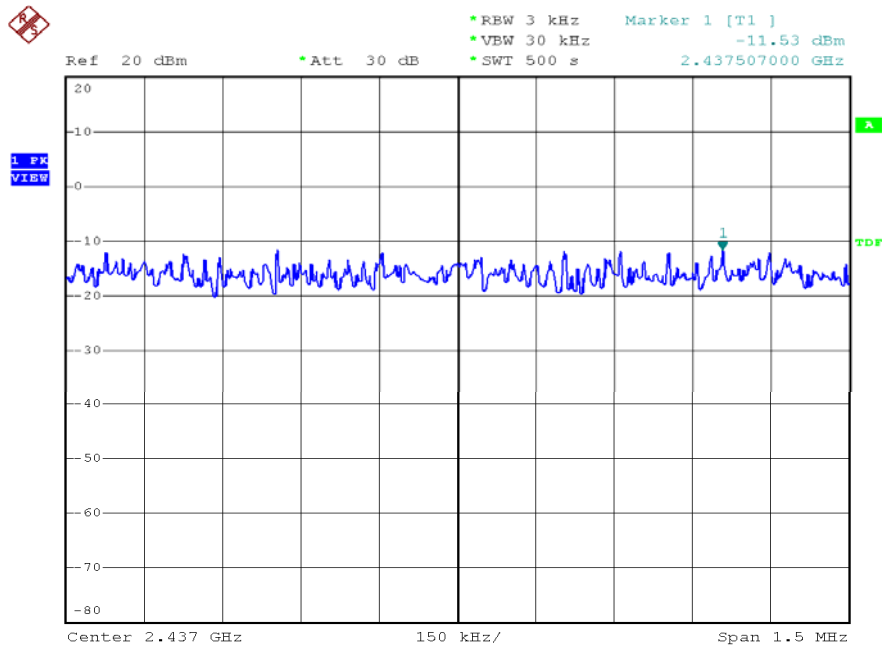


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 14:48:12

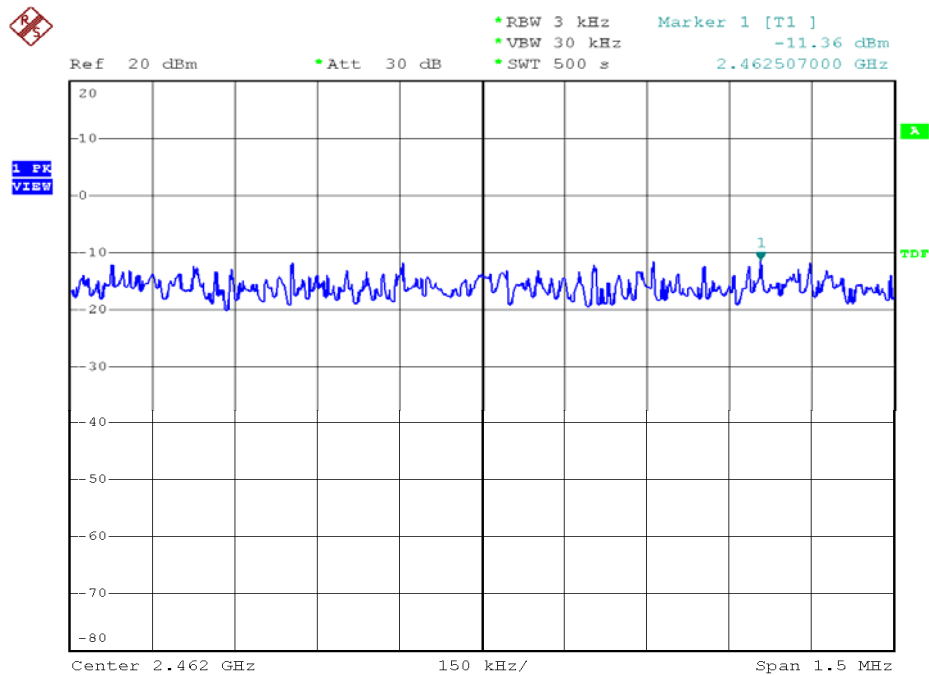
Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 15:42:16

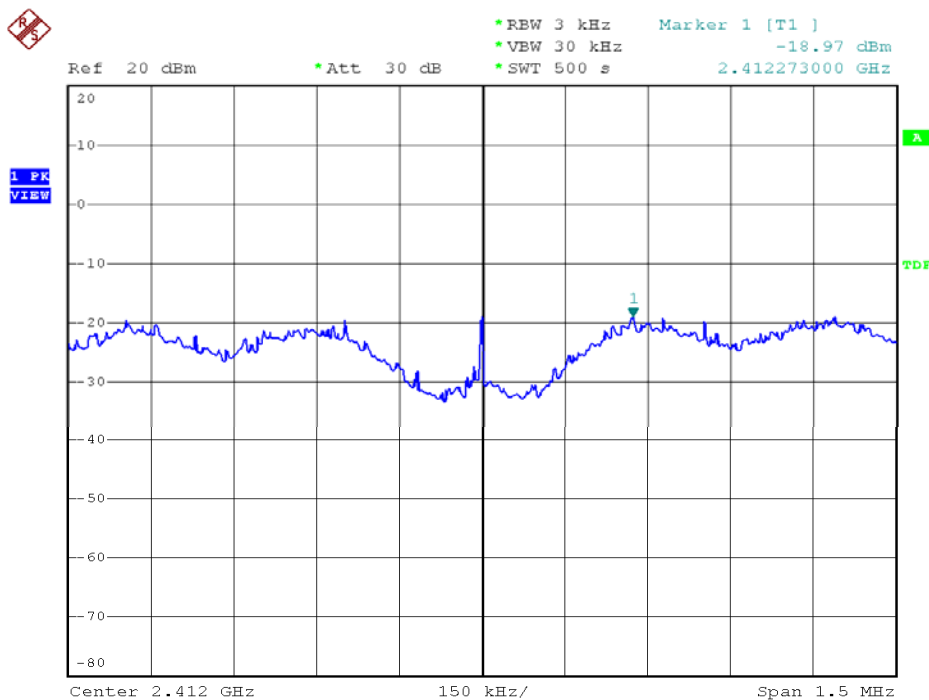


Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 16:18:22

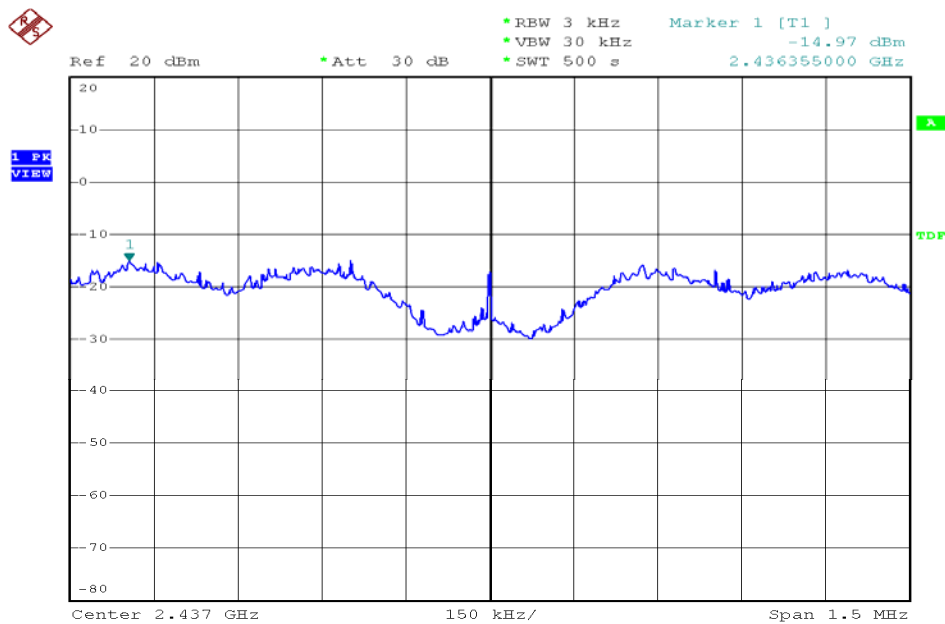
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 17:05:17

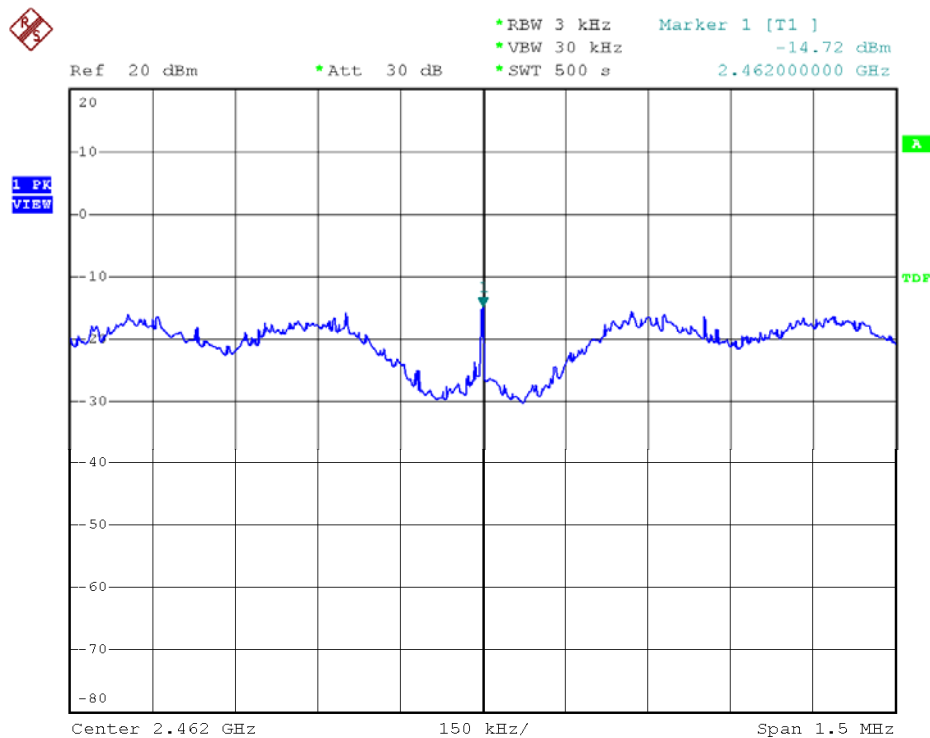


Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 17:45:09

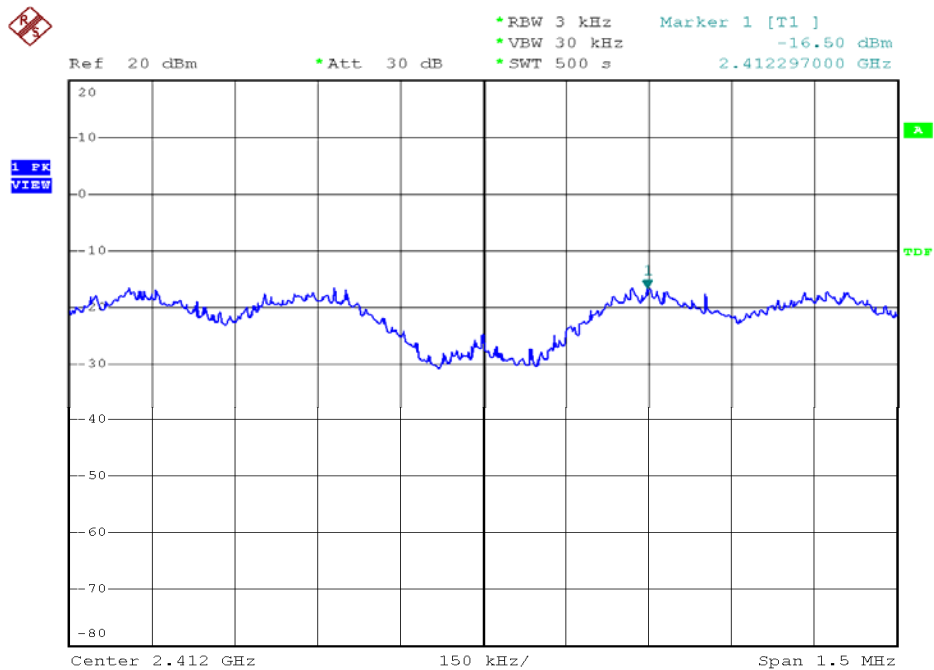
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 18:27:06

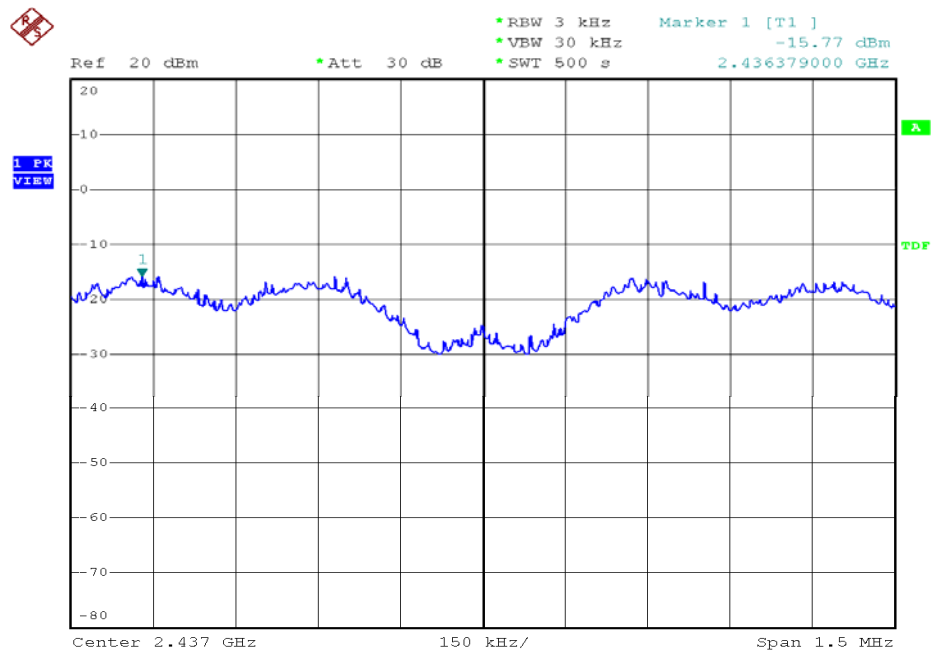


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 16:49:25

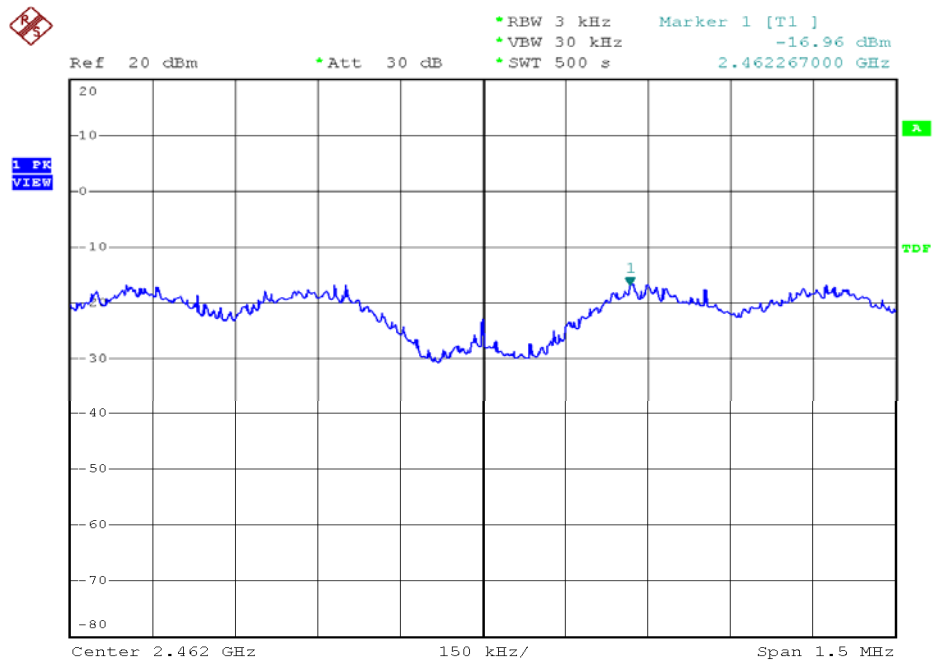
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 17:29:58

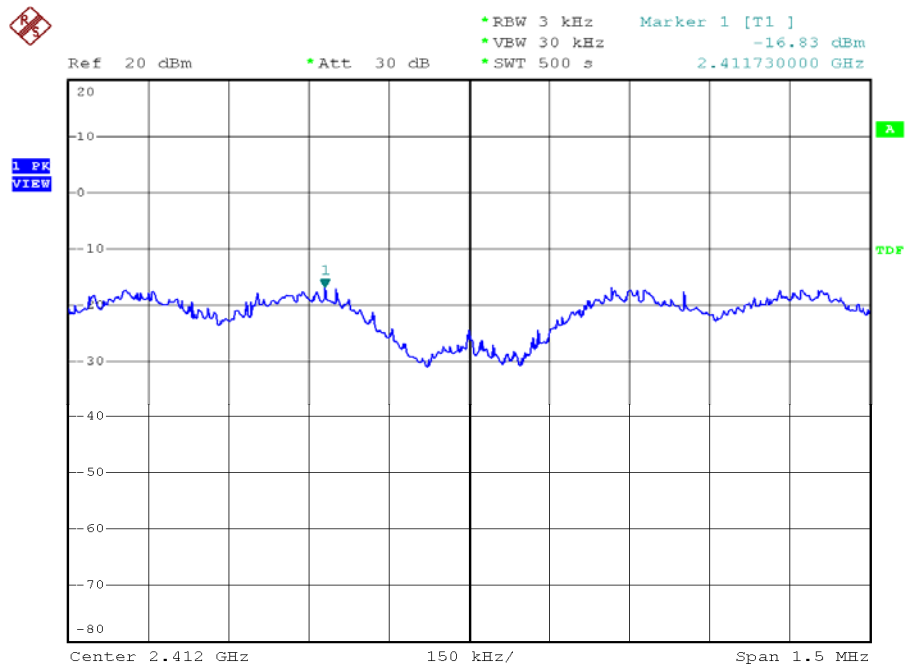


Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 18:11:23

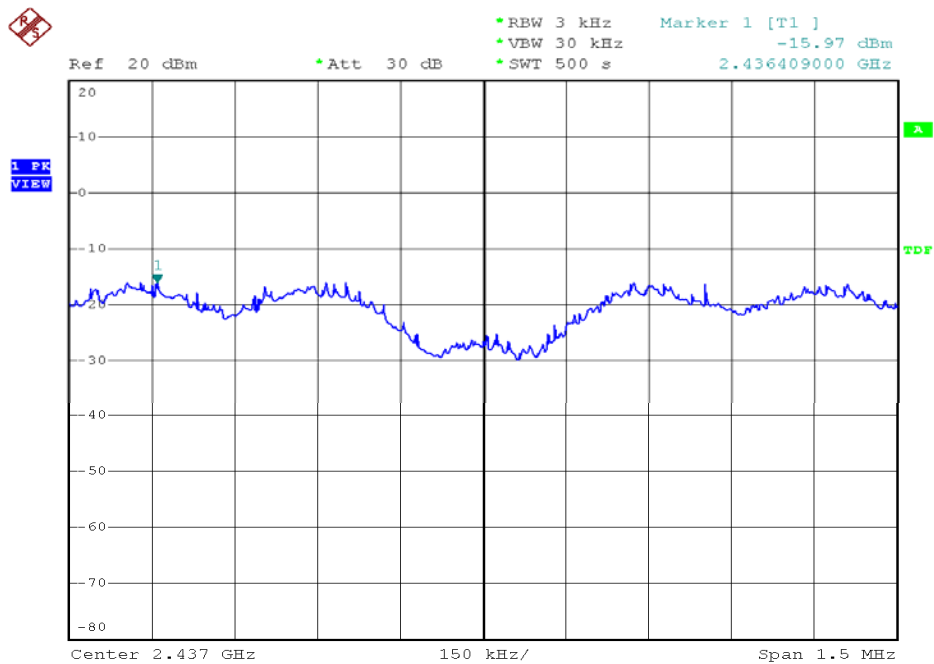
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 16:44:52

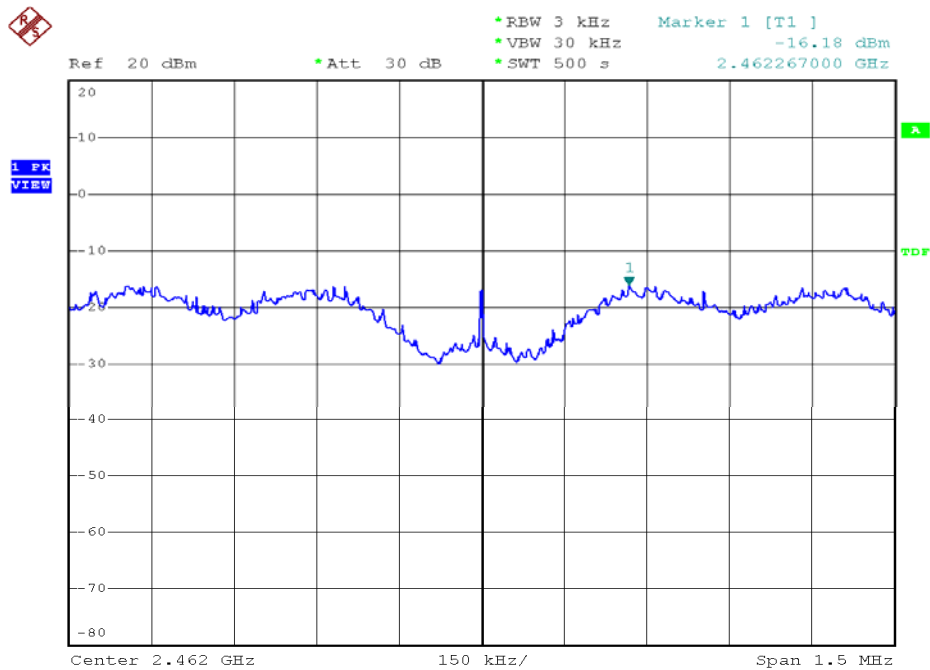


Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 17:17:47

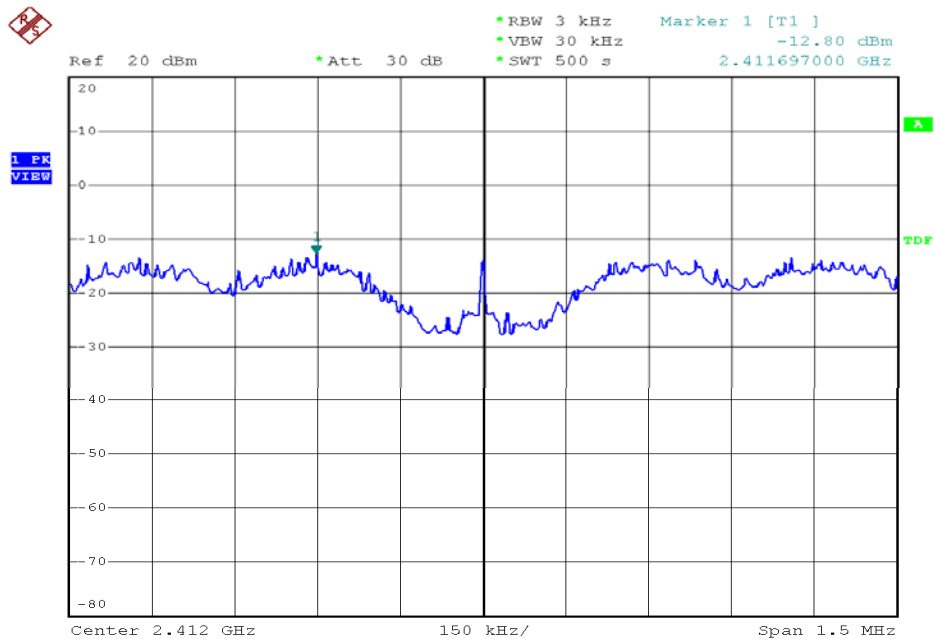
Modulation Standard: 802.11g (54Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 17:58:19

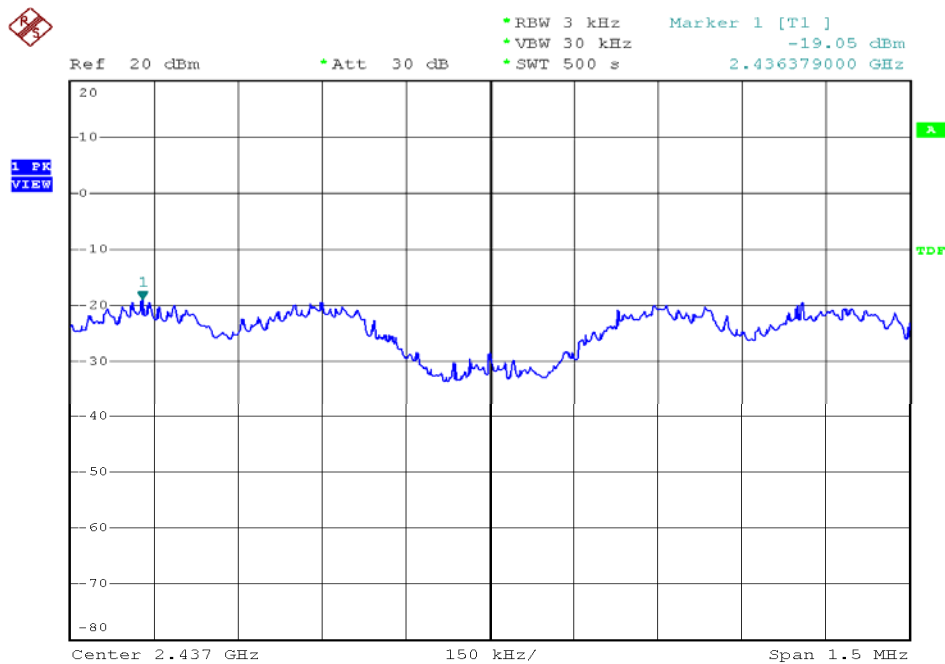


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 01



Date: 6.JAN.2009 20:09:38

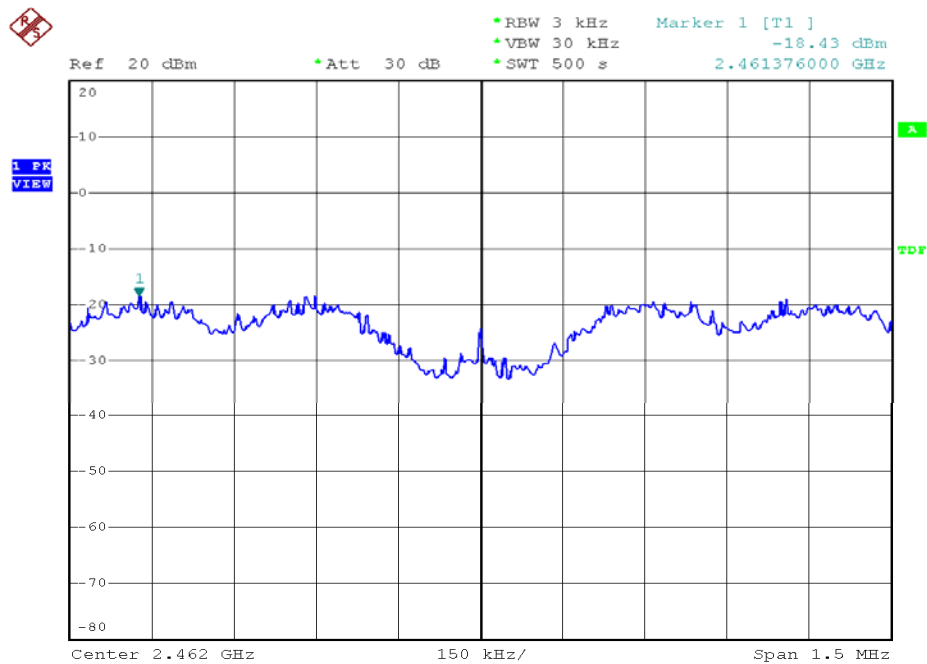
Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 20:45:48

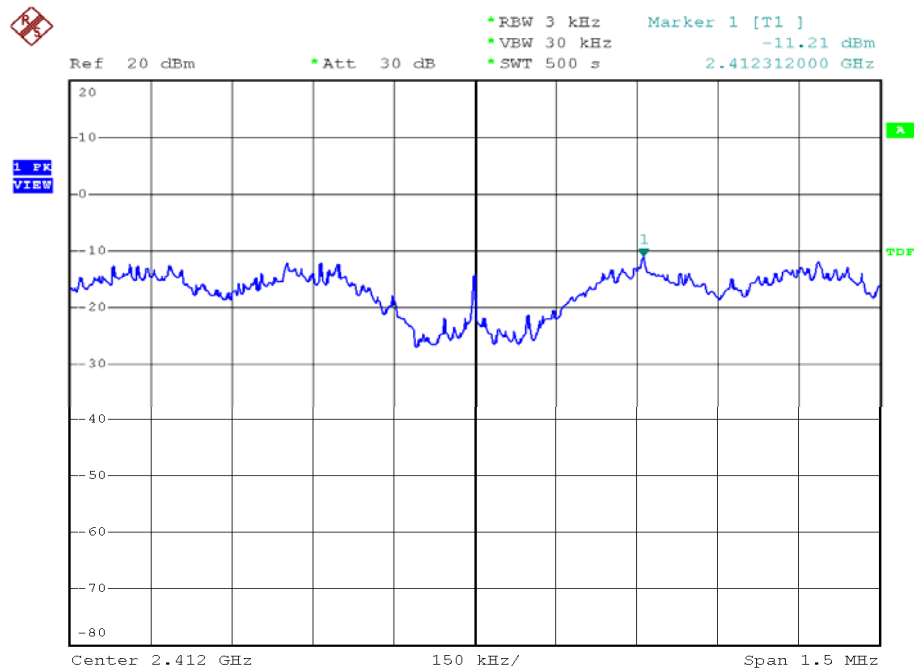


Modulation Standard: 802.11n HT20 (104Mbps), Ant1
Channel: 11



Date: 6.JAN.2009 21:21:26

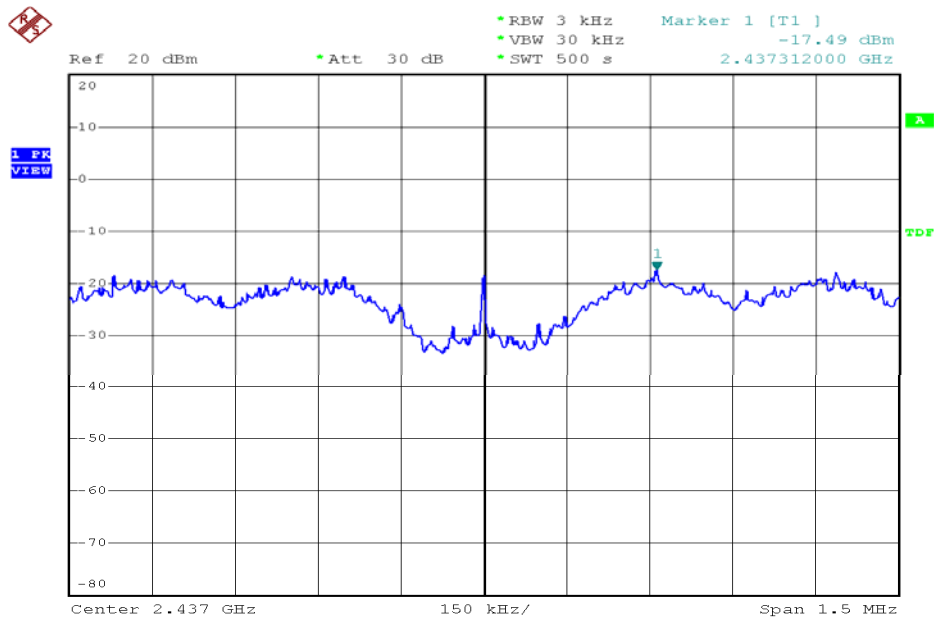
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 01



Date: 6.JAN.2009 19:58:24

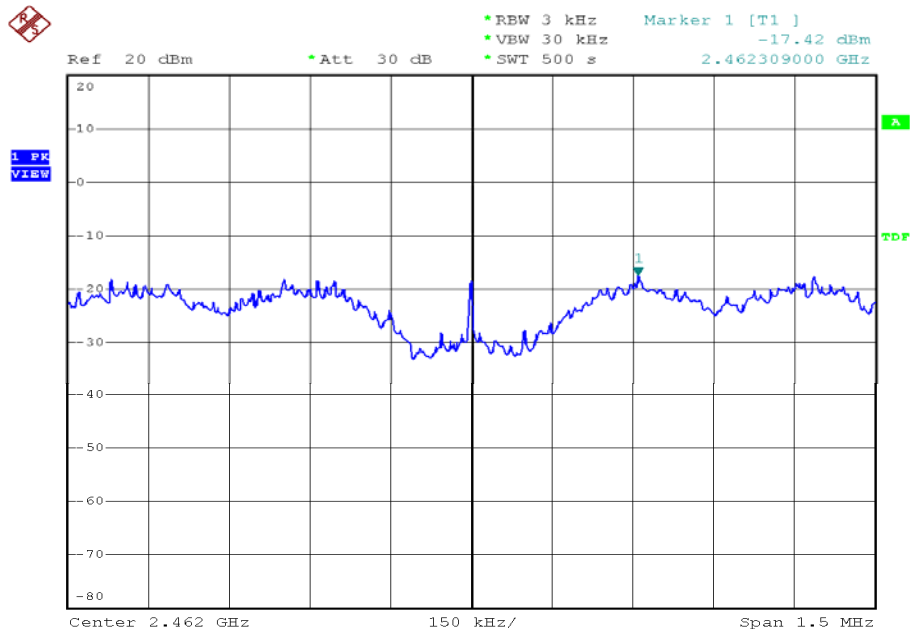


Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 20:34:01

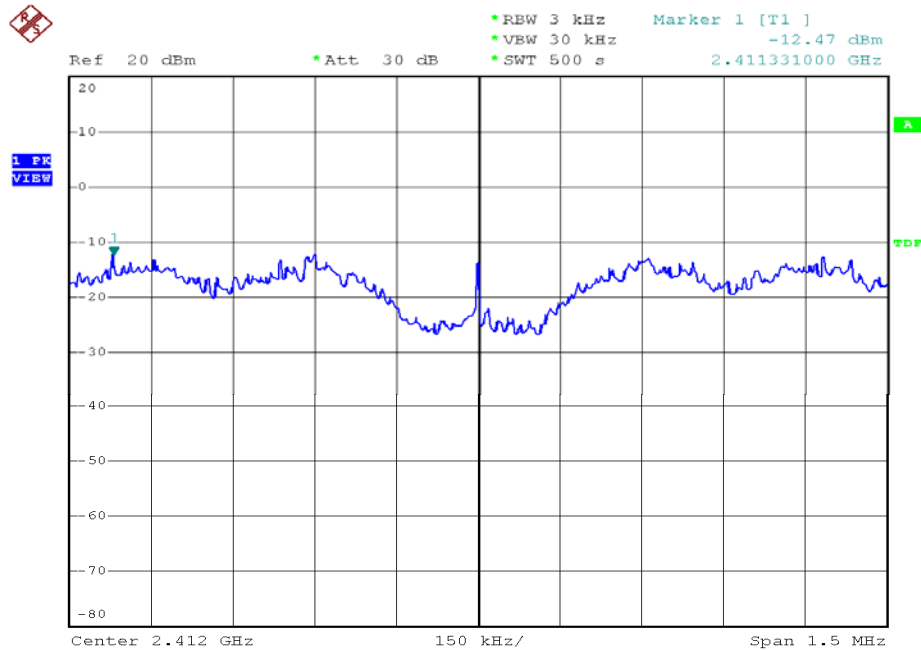
Modulation Standard: 802.11n HT20 (104Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 21:09:34

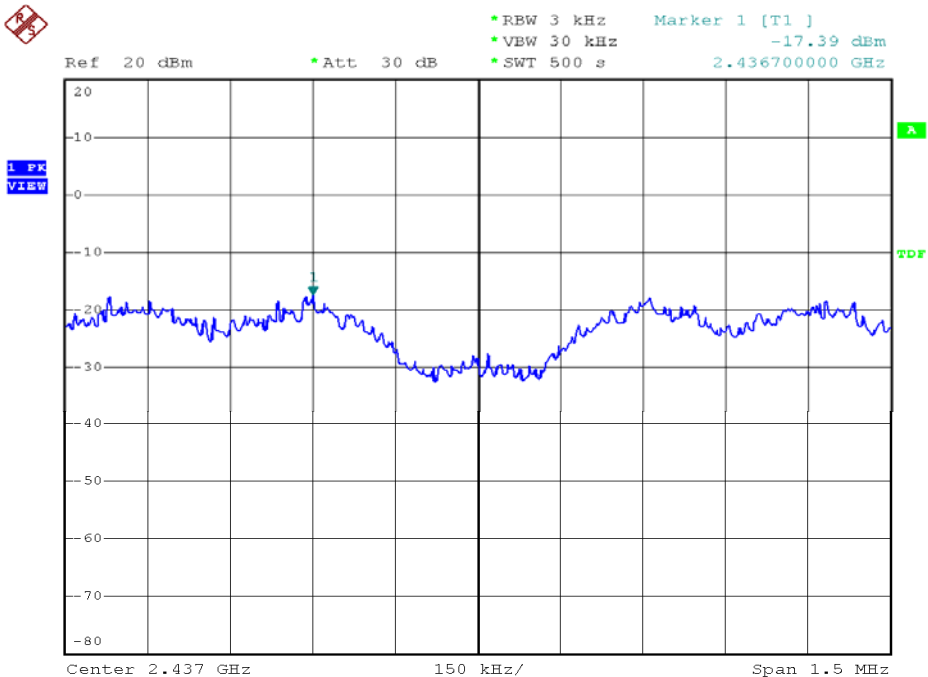


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 01



Date: 6.JAN.2009 19:47:14

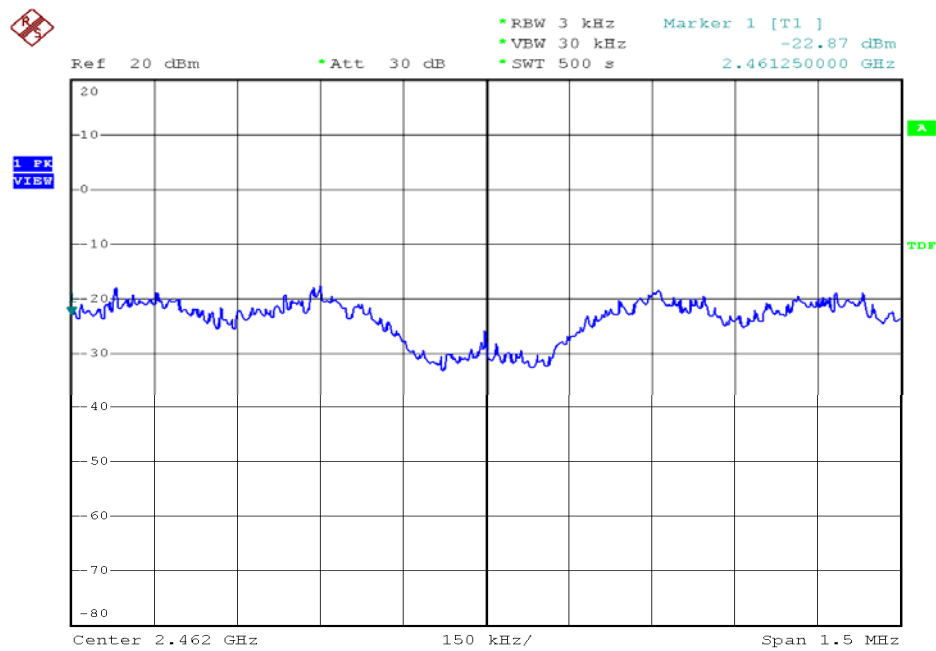
Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 20:22:23

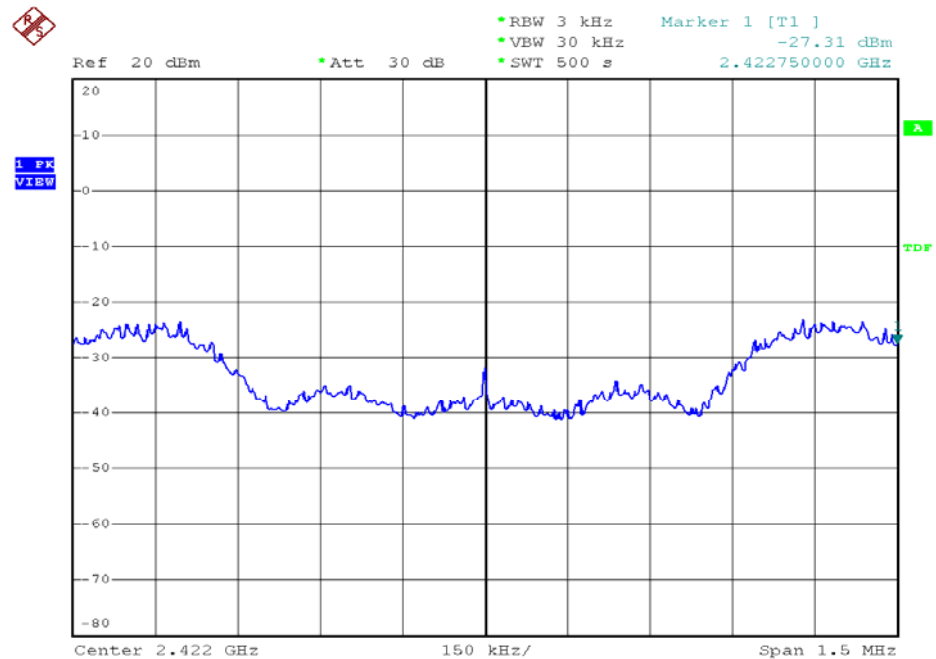


Modulation Standard: 802.11n HT20 (104Mbps), Ant3
Channel: 11



Date: 6.JAN.2009 20:58:05

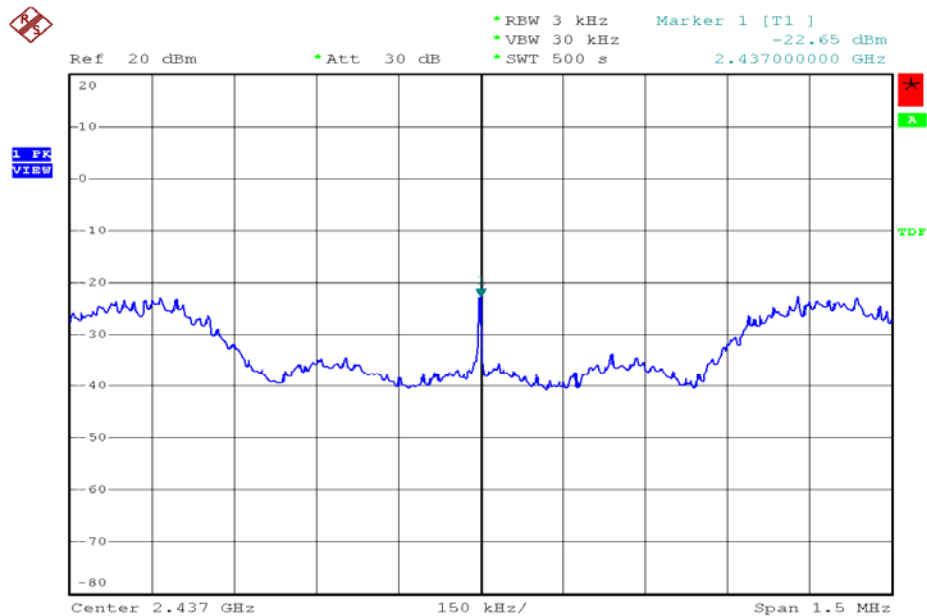
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 03



Date: 6.JAN.2009 22:01:00

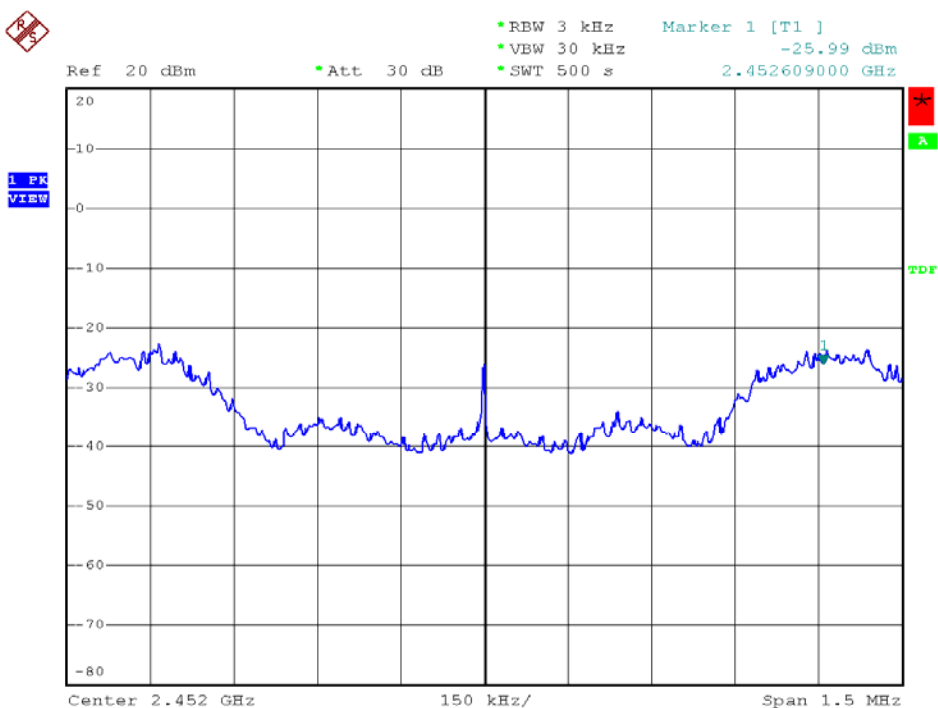


Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 06



Date: 6.JAN.2009 22:27:59

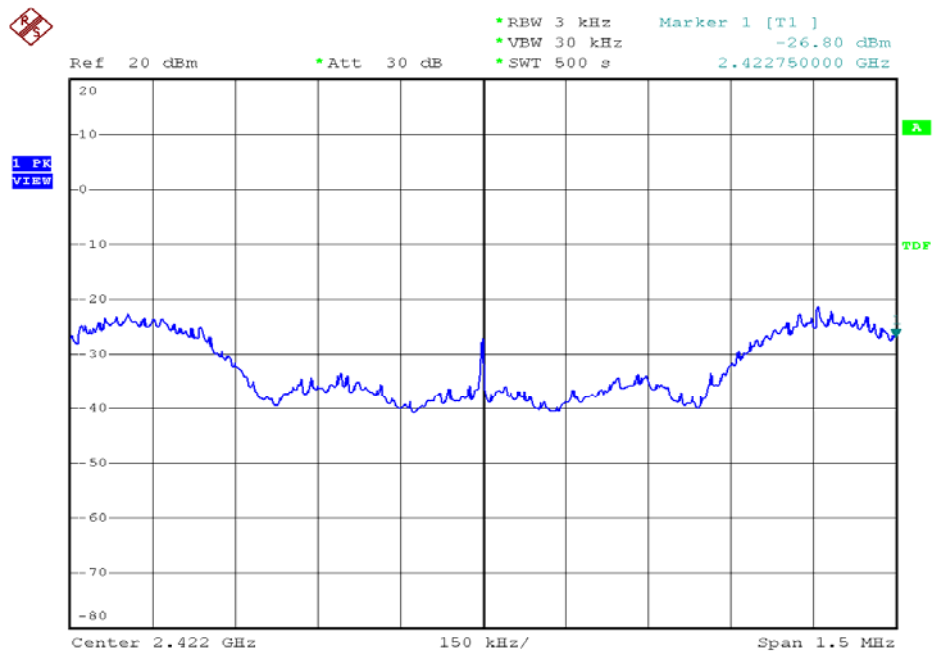
Modulation Standard: 802.11n HT40 (108Mbps), Ant1
Channel: 09



Date: 6.JAN.2009 22:52:03

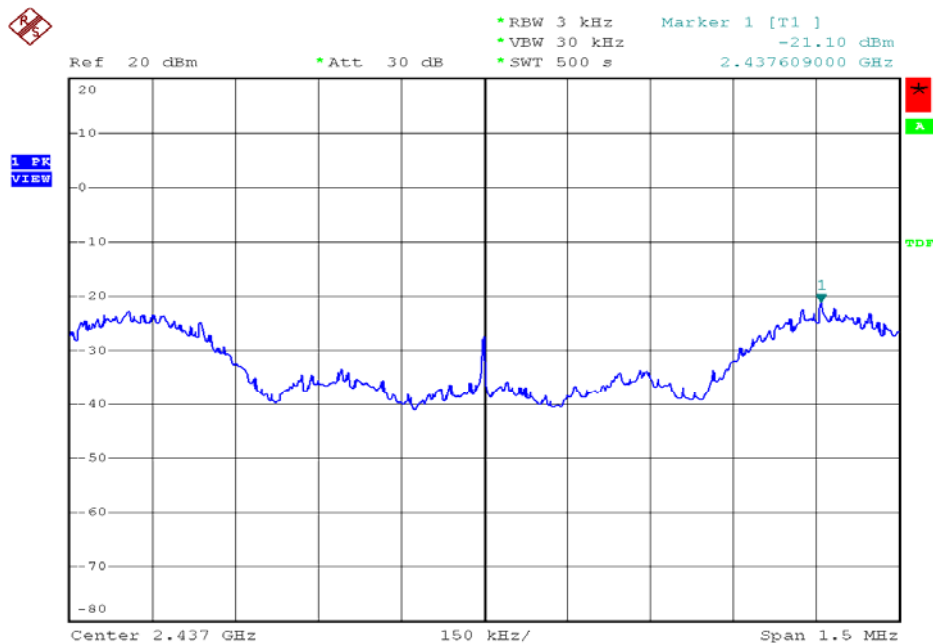


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 03



Date: 6.JAN.2009 21:48:25

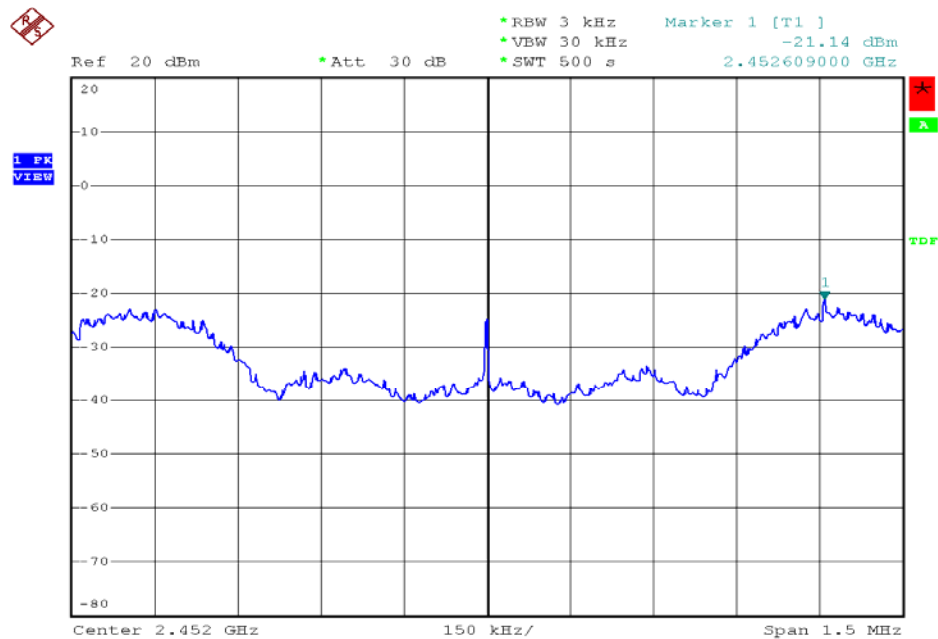
Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 06



Date: 6.JAN.2009 22:22:06

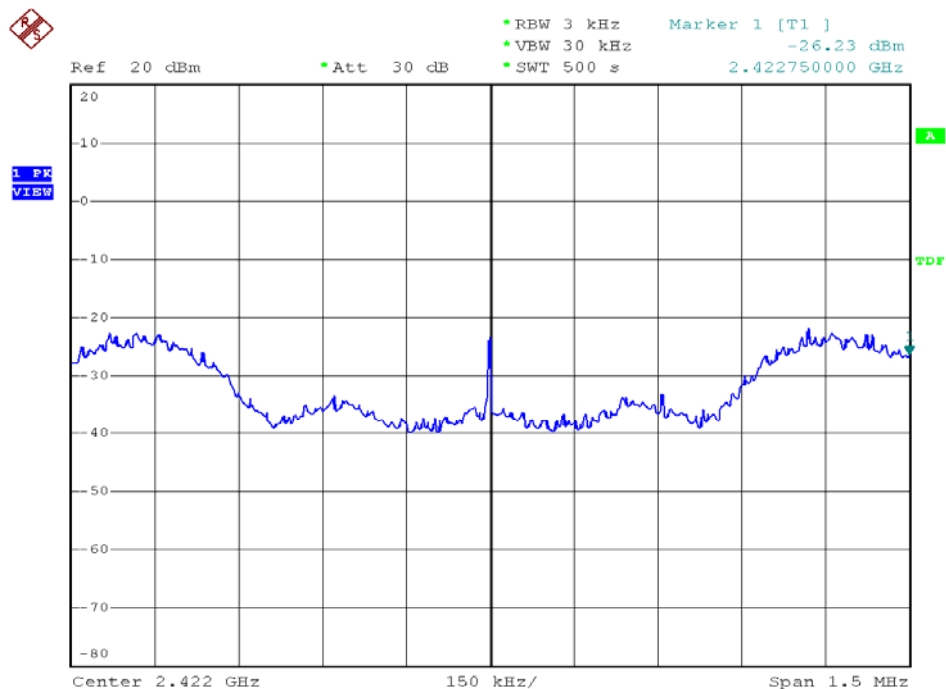


Modulation Standard: 802.11n HT40 (108Mbps), Ant2
Channel: 09



Date: 6.JAN.2009 22:40:27

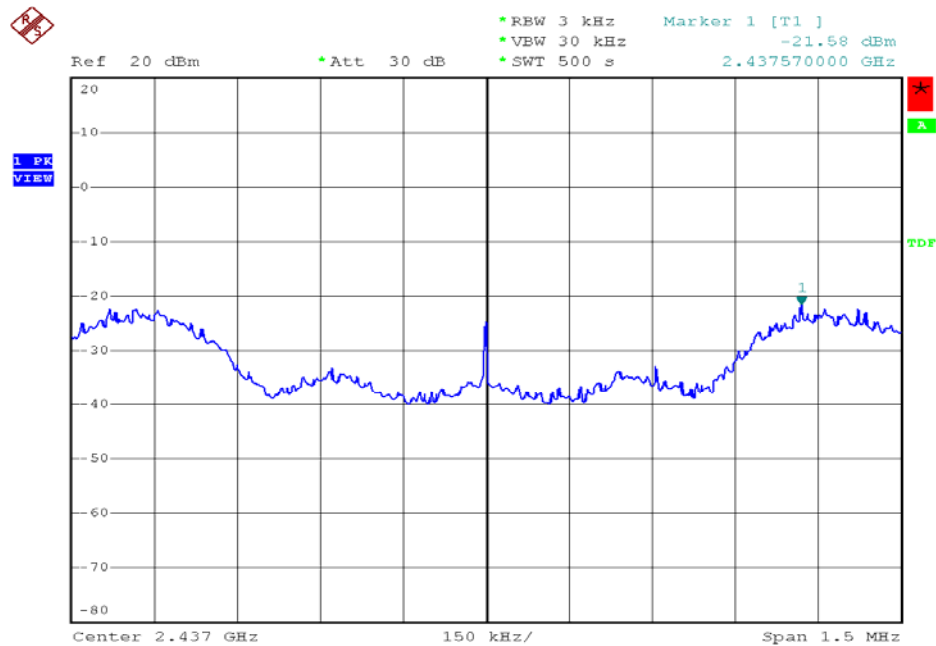
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 03



Date: 6.JAN.2009 21:35:01

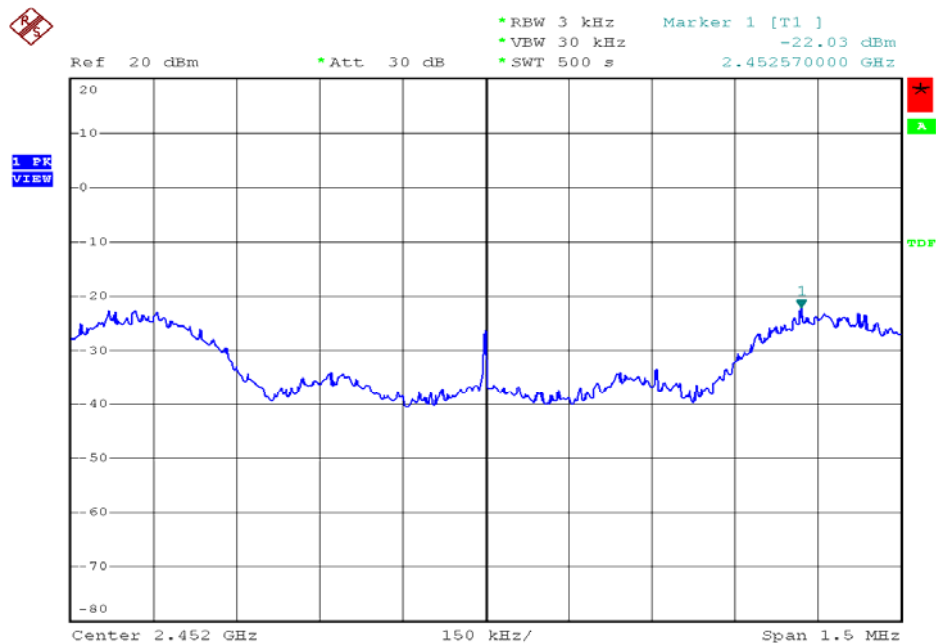


Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 06



Date: 6.JAN.2009 22:14:33

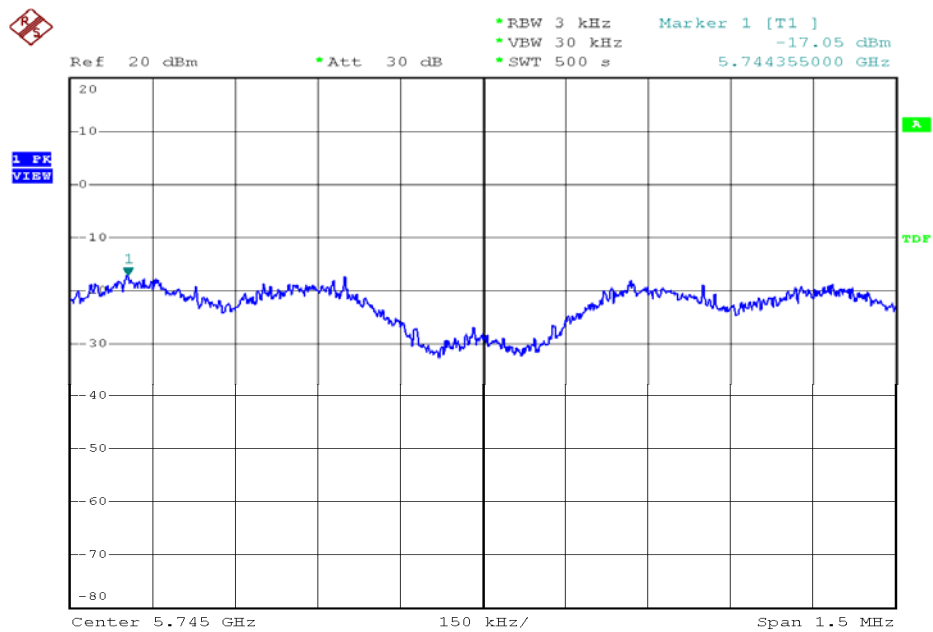
Modulation Standard: 802.11n HT40 (108Mbps), Ant3
Channel: 09



Date: 6.JAN.2009 22:36:34

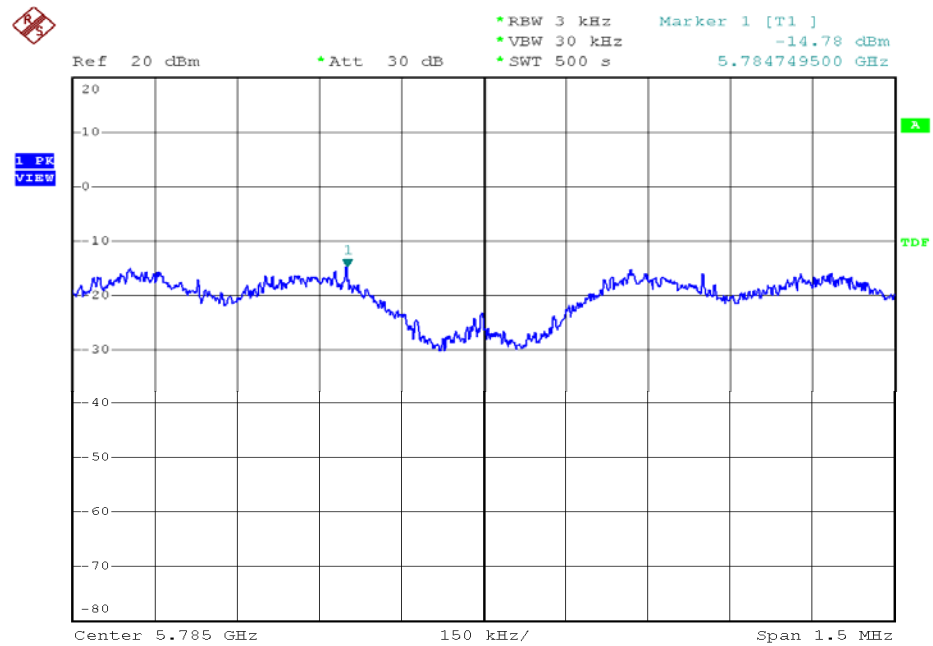


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 149



Date: 9.JAN.2009 10:31:40

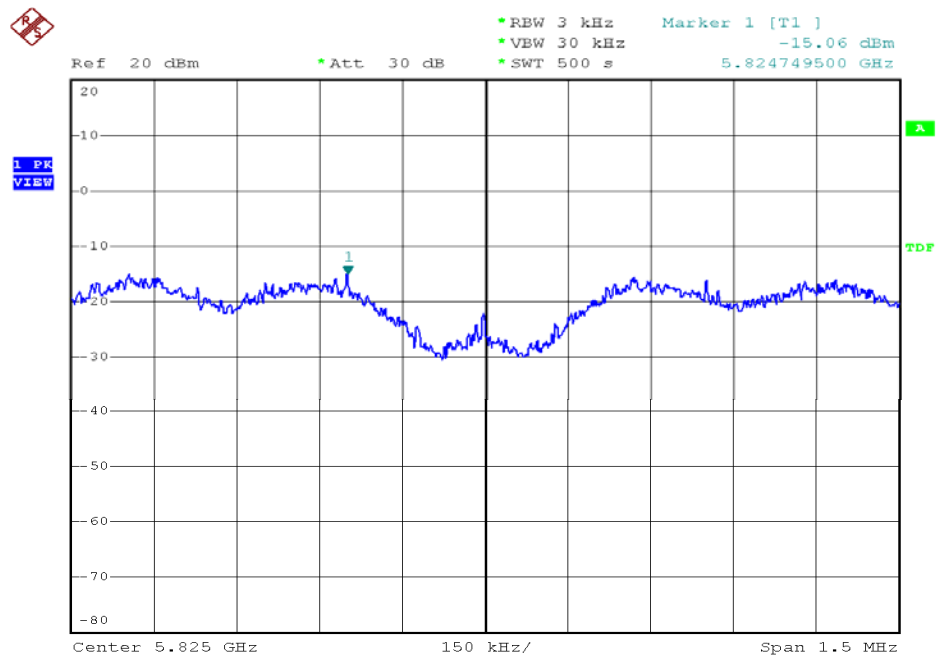
Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 157



Date: 9.JAN.2009 11:06:48

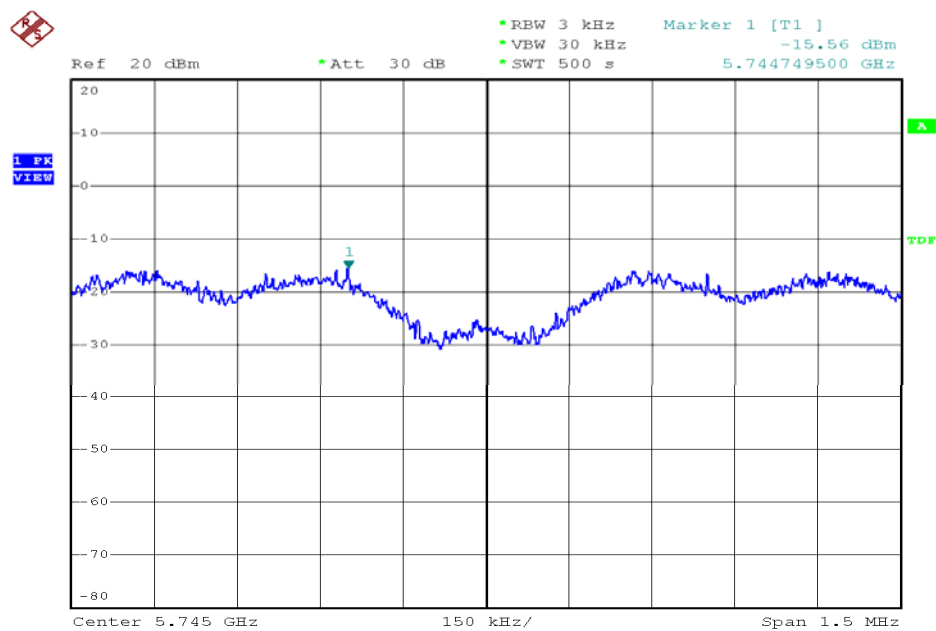


Modulation Standard: 802.11a (54Mbps), Ant1
Channel: 165



Date: 9.JAN.2009 11:45:38

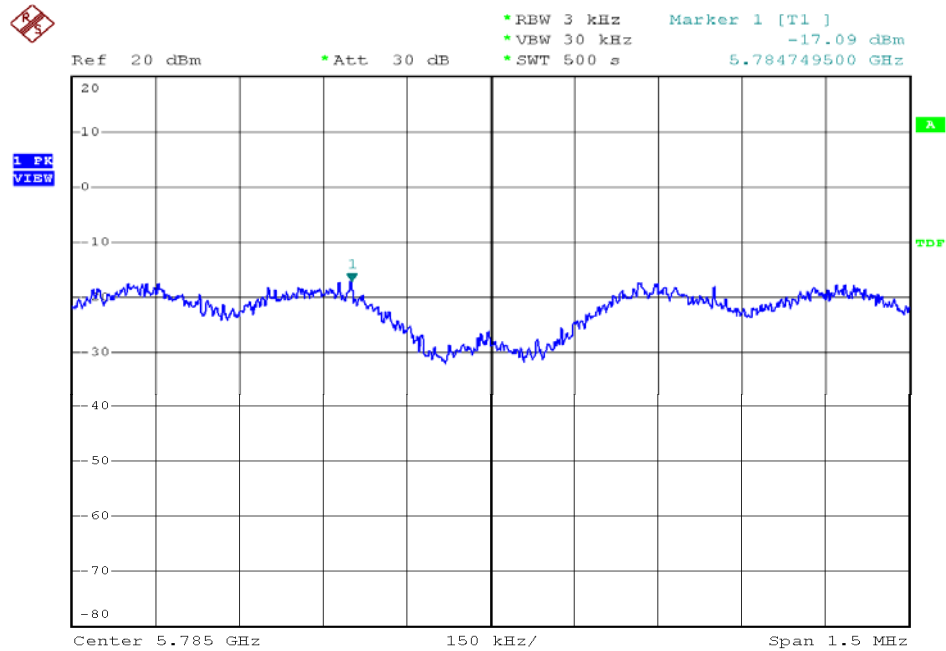
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 149



Date: 9.JAN.2009 10:23:56

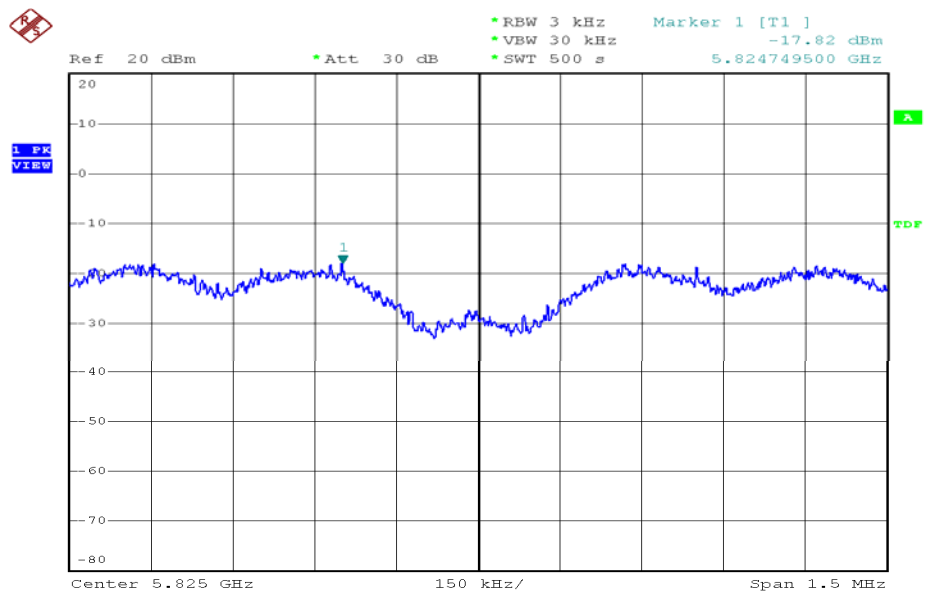


Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 157



Date: 9.JAN.2009 10:54:40

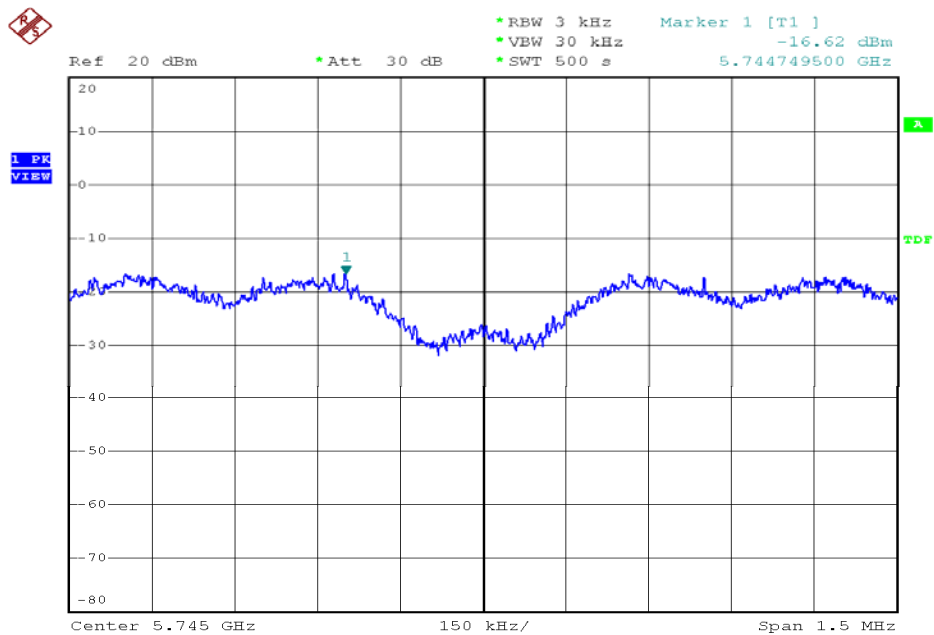
Modulation Standard: 802.11a (54Mbps), Ant2
Channel: 165



Date: 9.JAN.2009 11:33:54

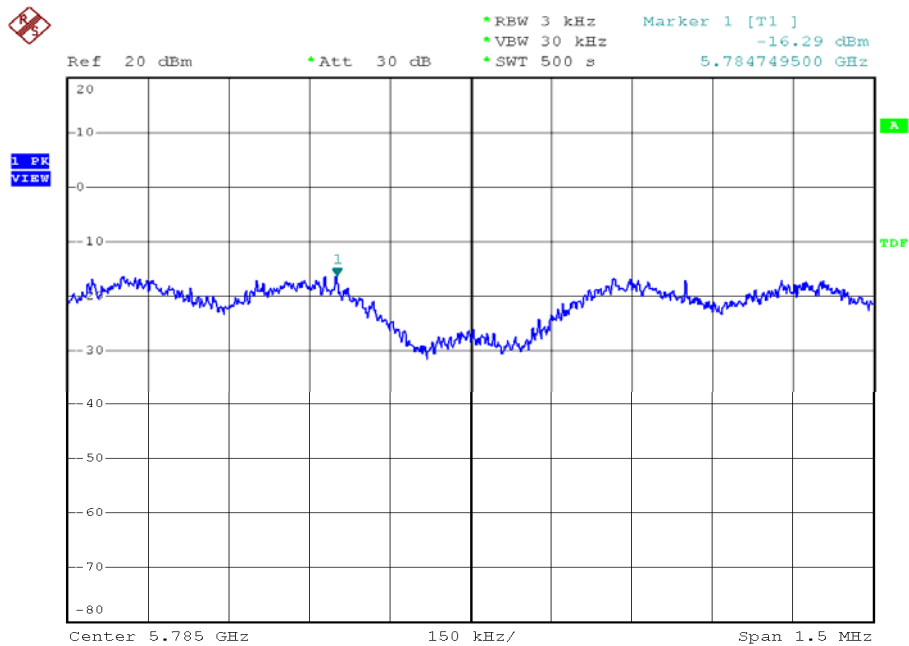


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 149



Date: 9.JAN.2009 10:16:05

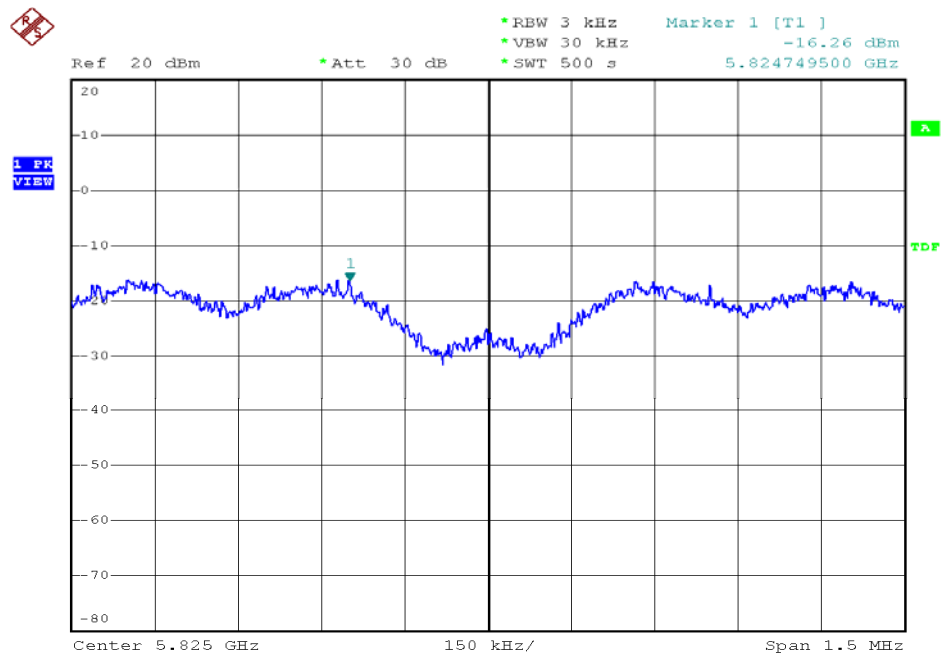
Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 157



Date: 9.JAN.2009 10:42:59

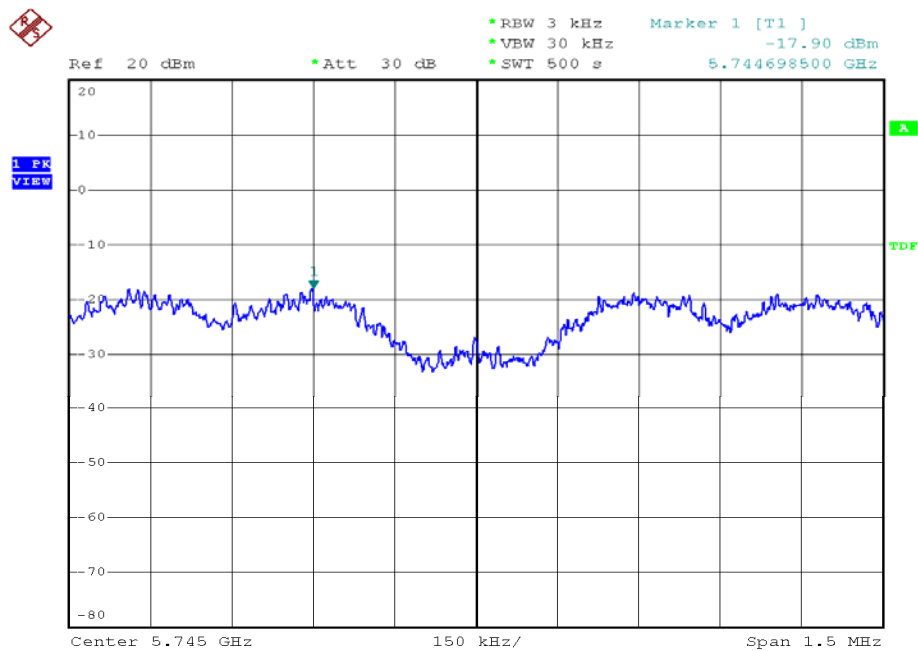


Modulation Standard: 802.11a (54Mbps), Ant3
Channel: 165



Date: 9.JAN.2009 11:22:06

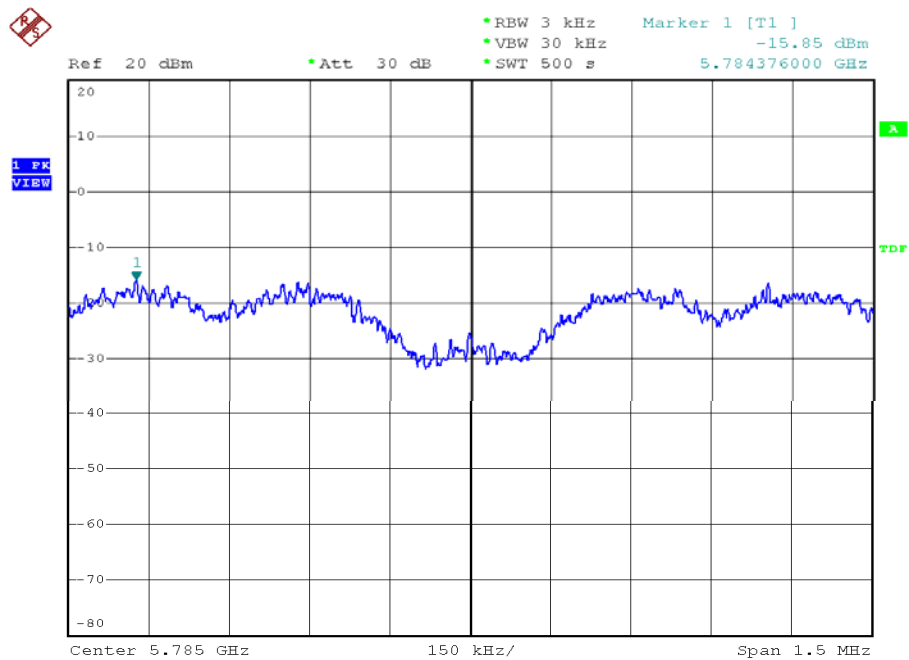
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 149



Date: 9.JAN.2009 13:18:17

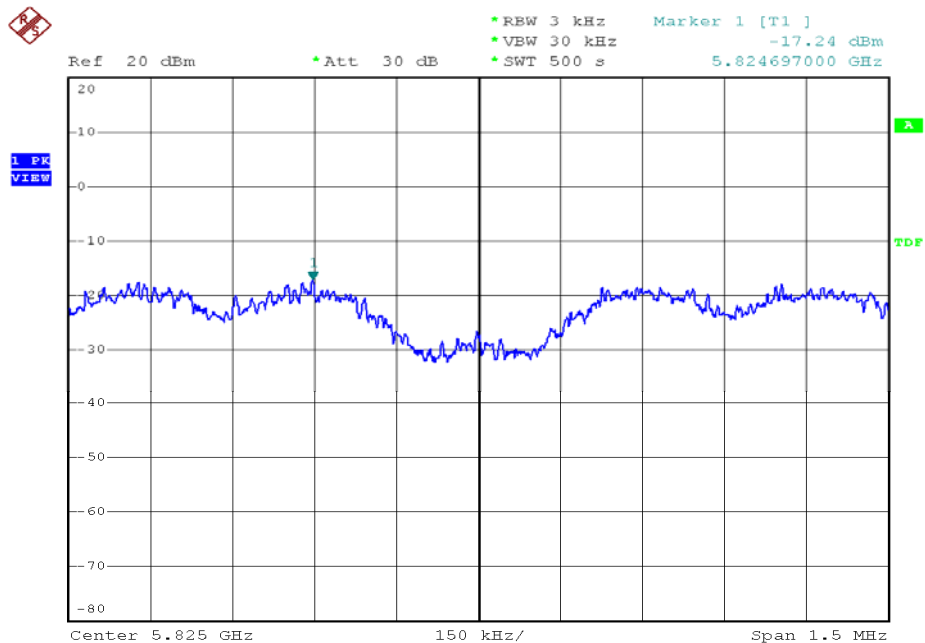


Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 157



Date: 9.JAN.2009 15:47:51

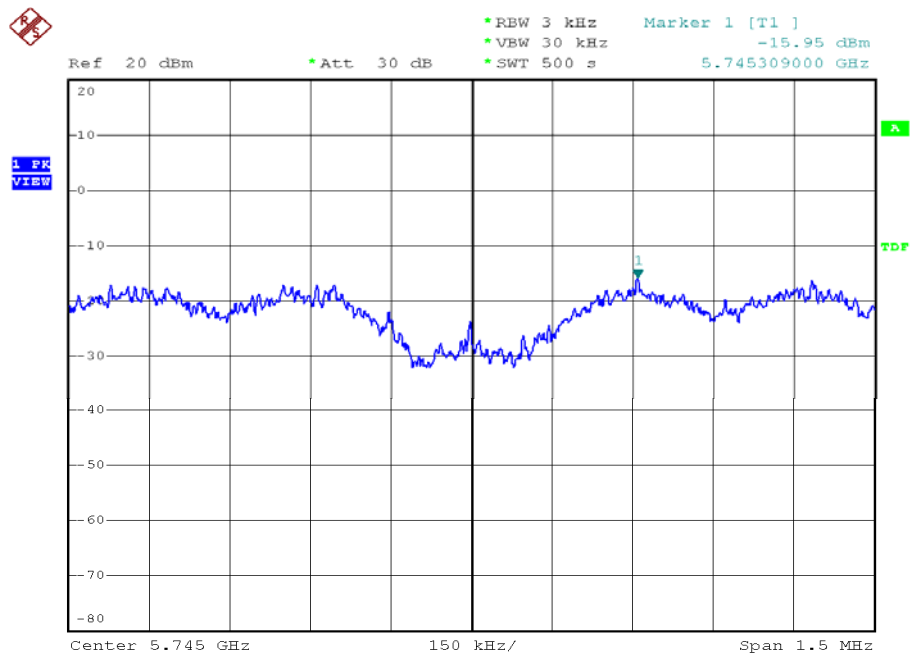
Modulation Standard: 802.11an HT20 (104Mbps), Ant1
Channel: 165



Date: 9.JAN.2009 16:22:52

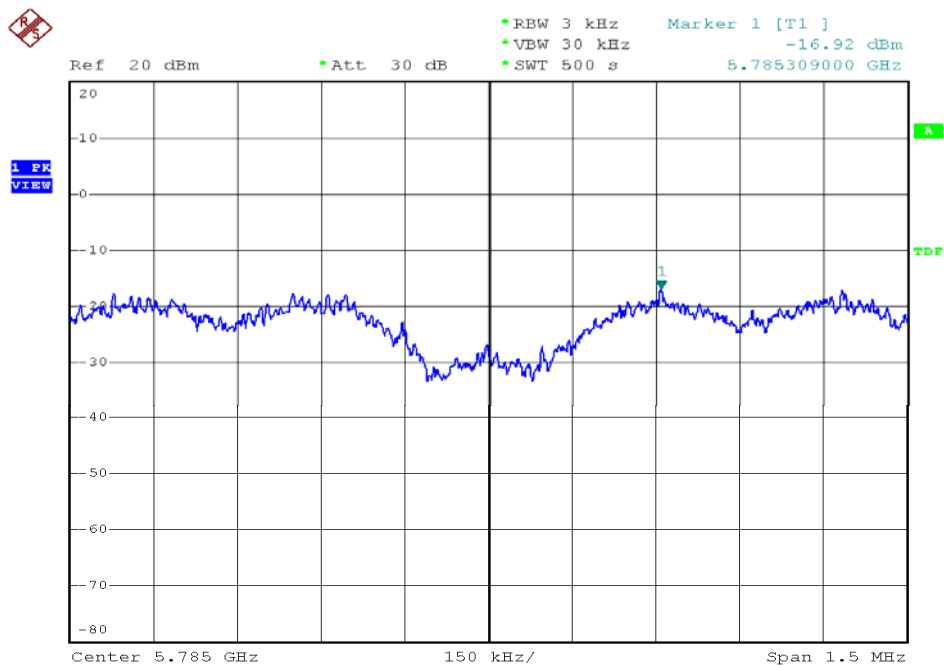


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 149



Date: 9.JAN.2009 13:07:24

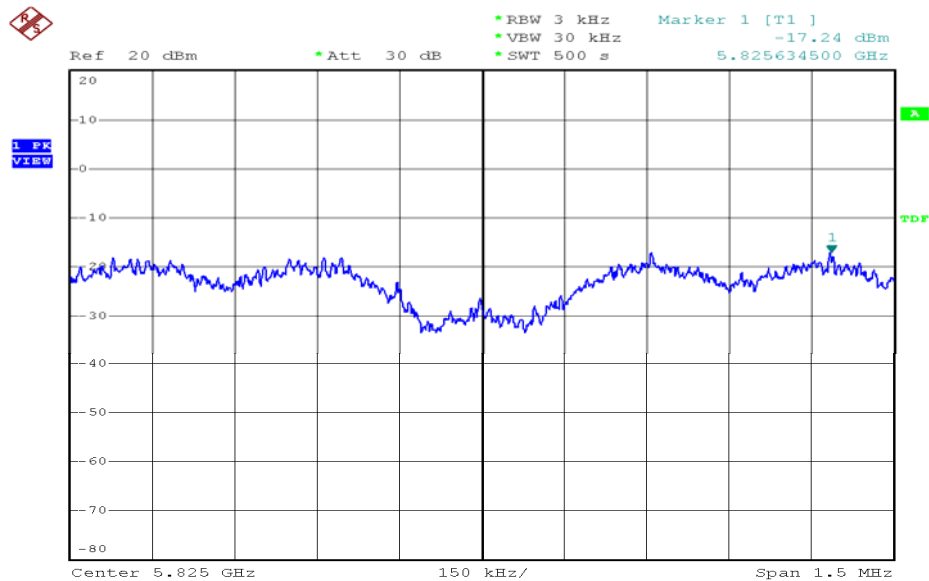
Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 157



Date: 9.JAN.2009 15:33:47

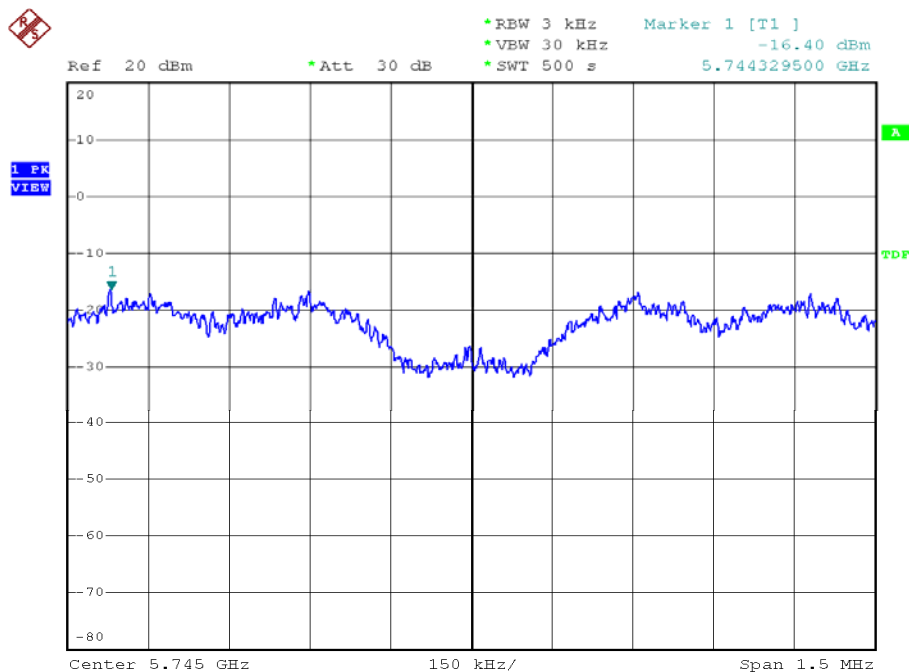


Modulation Standard: 802.11an HT20 (104Mbps), Ant2
Channel: 165



Date: 9.JAN.2009 16:11:48

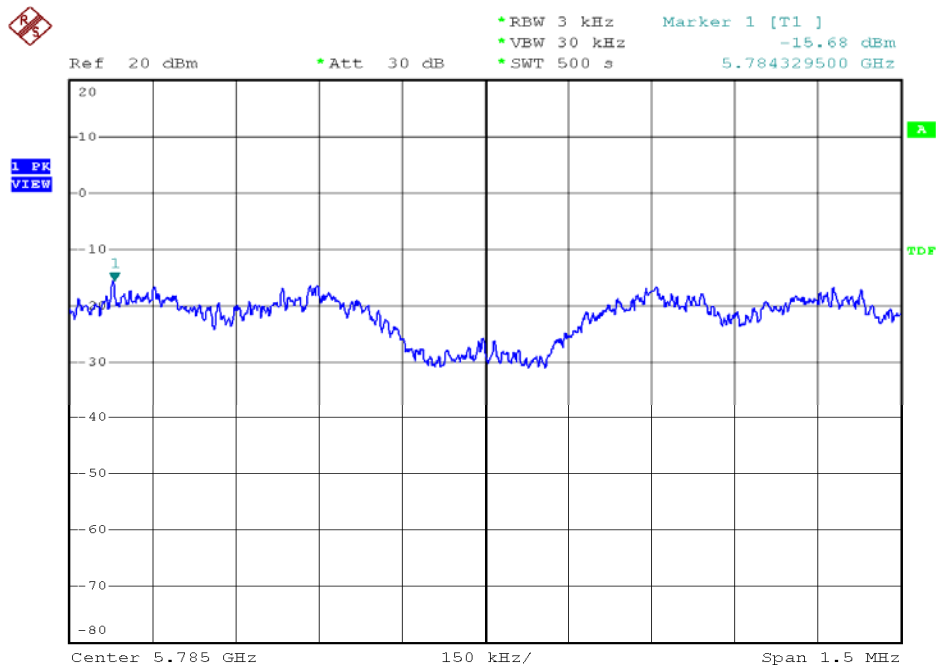
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 149



Date: 9.JAN.2009 11:59:02

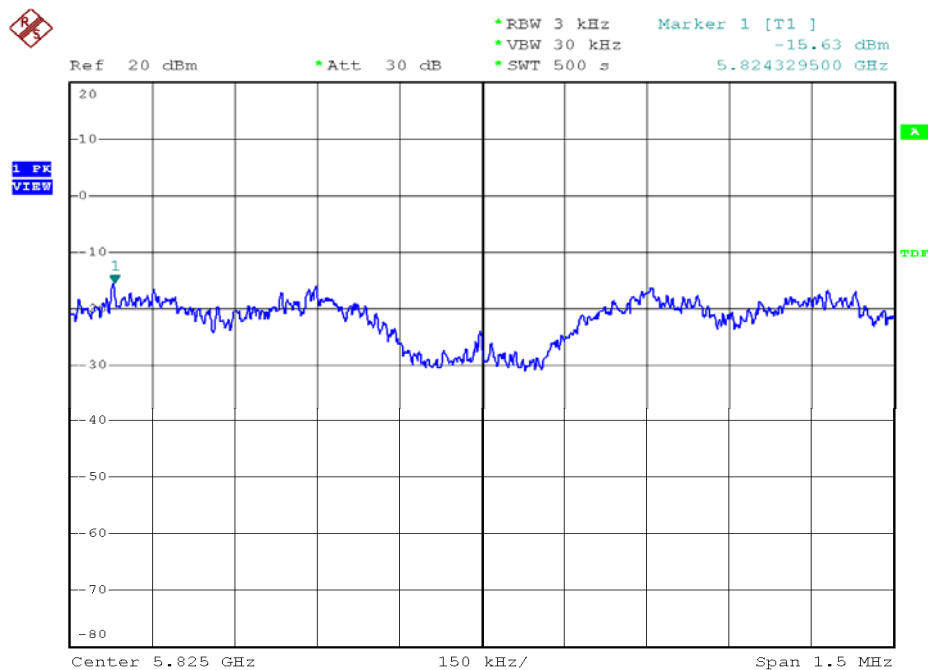


Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 157



Date: 9.JAN.2009 15:20:45

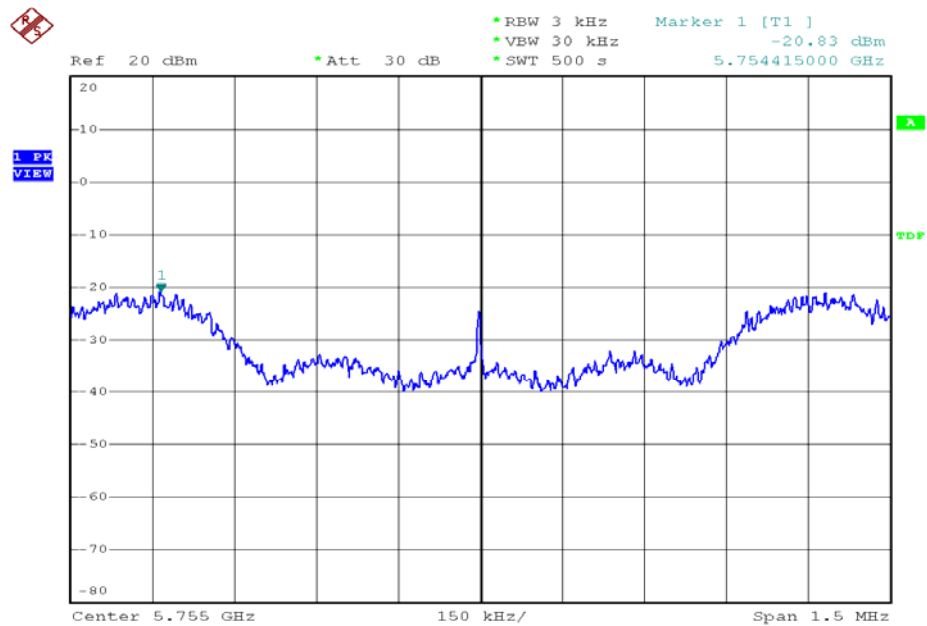
Modulation Standard: 802.11an HT20 (104Mbps), Ant3
Channel: 165



Date: 9.JAN.2009 16:00:28

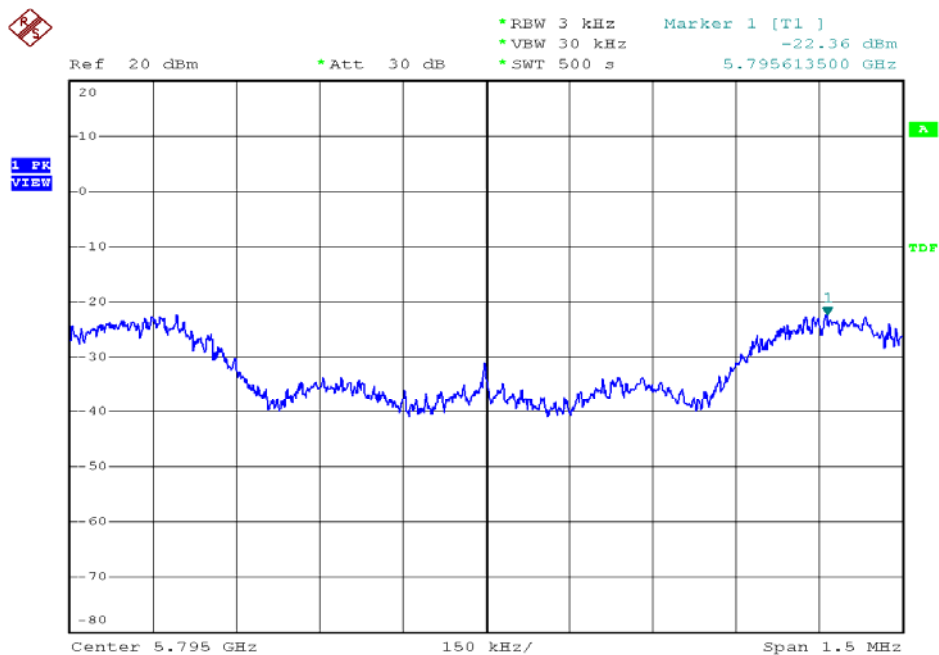


Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 151



Date: 9.JAN.2009 14:04:09

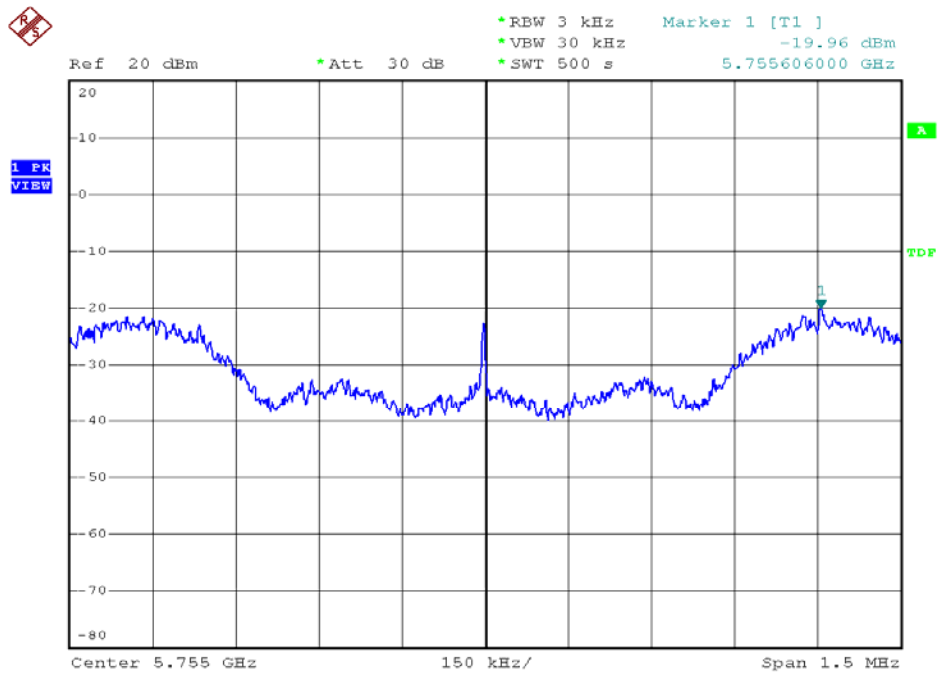
Modulation Standard: 802.11an HT40 (108Mbps), Ant1
Channel: 159



Date: 9.JAN.2009 14:41:53

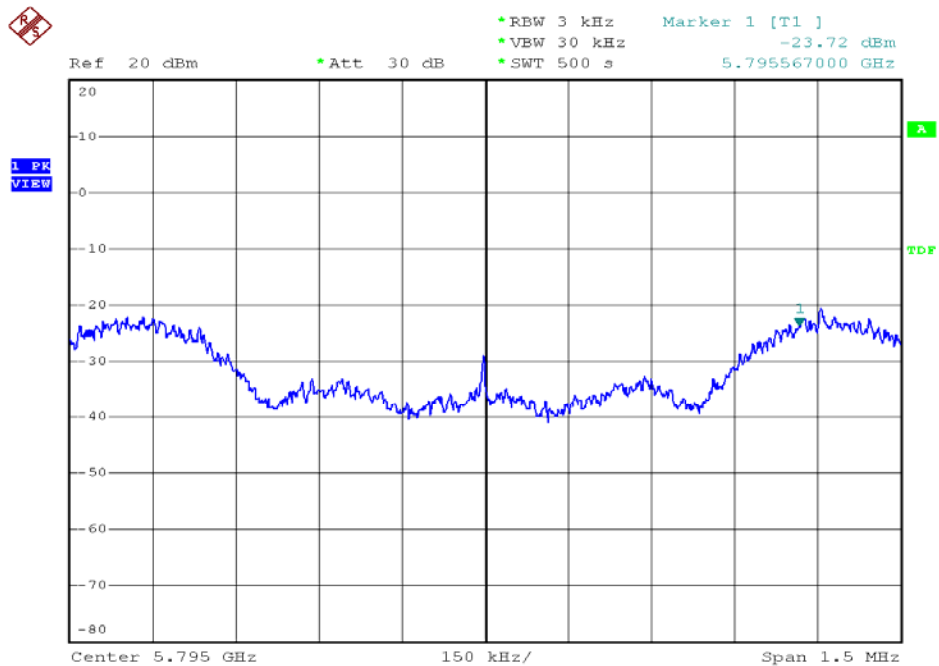


Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 151



Date: 9.JAN.2009 13:46:52

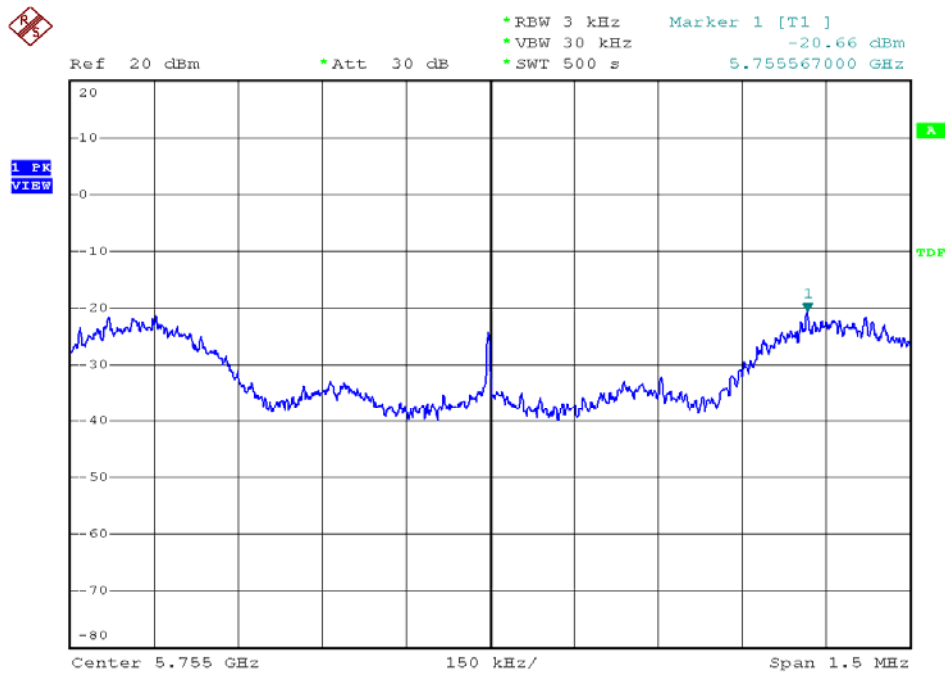
Modulation Standard: 802.11an HT40 (108Mbps), Ant2
Channel: 159



Date: 9.JAN.2009 14:29:22

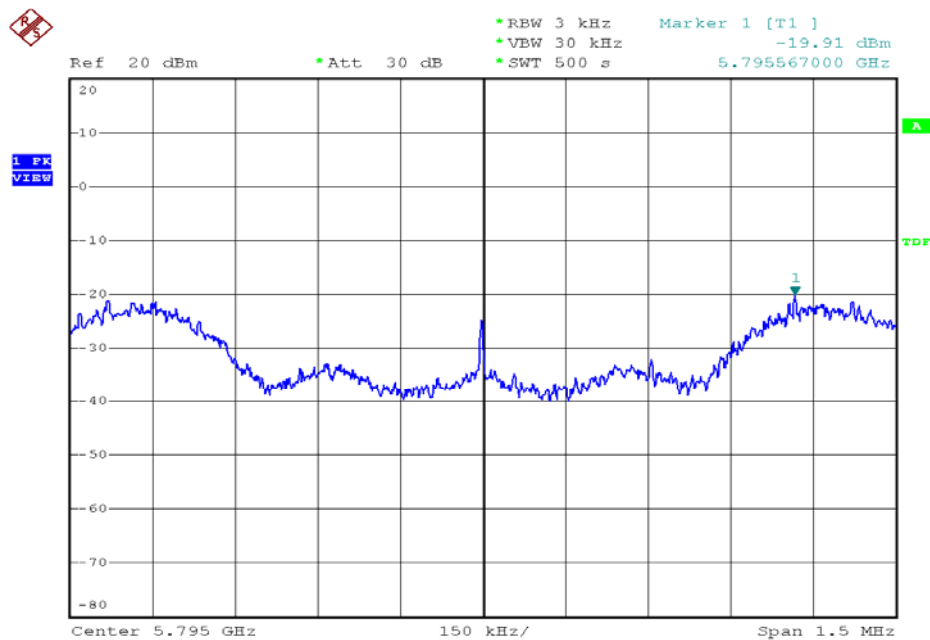


Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 151



Date: 9.JAN.2009 13:35:26

Modulation Standard: 802.11an HT40 (108Mbps), Ant3
Channel: 159



Date: 9.JAN.2009 14:17:24



9. Band Edges Measurement

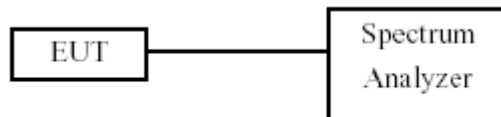
9.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

9.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- The band edges was measured and recorded.

9.3 Test Setup Layout



9.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21



9.5 Test Result and Data

Test Date: Jan. 10, 2009

Temperature: 25

Atmospheric pressure: 1026 hPa

Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)			maximum value (dBm)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11b (11Mbps)	01	2412	2397.00	2399.80	2397.20	-40.61	-37.06	-41.14
	11	2462	2487.30	2484.50	3175.00	-55.45	-54.83	-54.43
802.11g (54Mbps)	01	2412	2399.80	2399.80	2399.80	-35.89	-33.96	-35.31
	11	2462	2483.70	2483.70	3265.00	-53.49	-52.85	-50.60
802.11n HT20 (104Mbps)	01	2412	2399.80	2399.80	2399.80	-37.07	-34.74	-35.47
	11	2462	2483.70	2484.30	3175.00	-54.95	-53.63	-50.68
802.11n HT40 (108Mbps)	03	2422	2399.60	2399.80	3399.80	-38.76	-35.29	-37.49
	09	2452	2484.30	2484.70	3265.00	-50.16	-49.09	-46.62

Test Date: Jan. 09, 2009

Temperature: 25

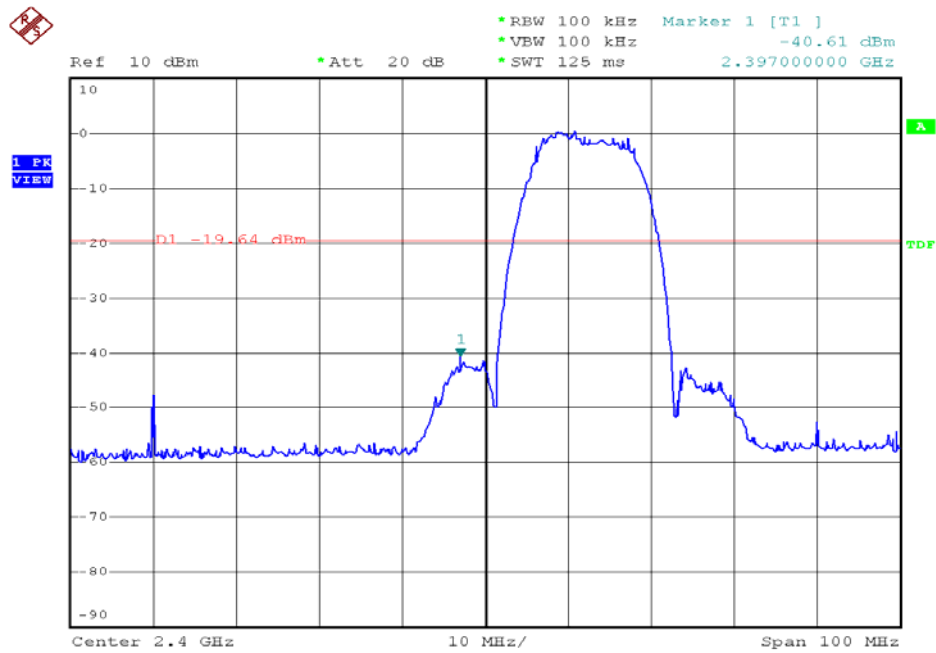
Atmospheric pressure: 1026 hPa

Humidity: 65%

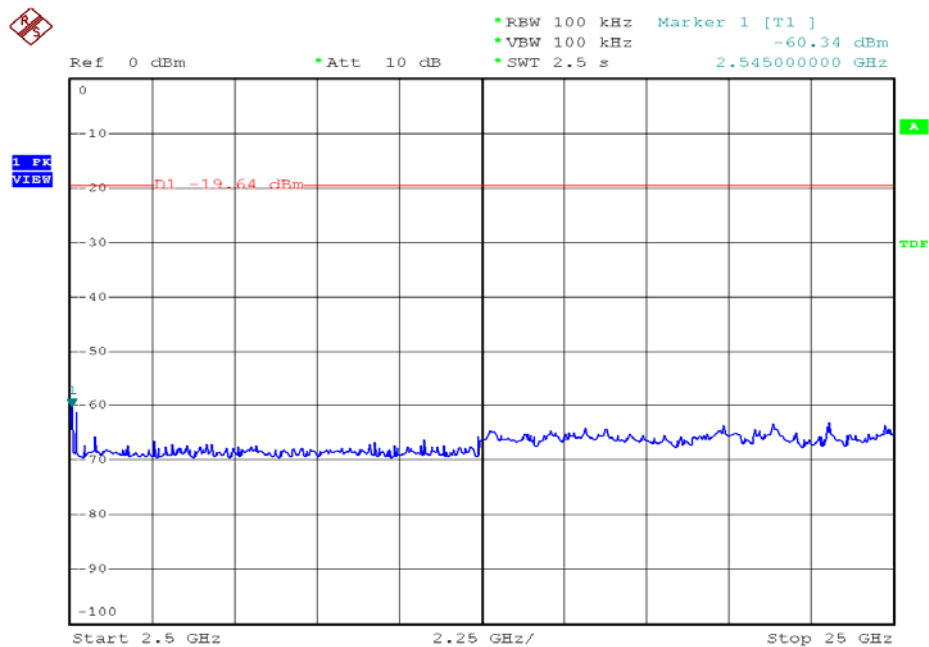
Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)			maximum value (dBm)		
			Ant1	Ant2	Ant3	Ant1	Ant2	Ant3
802.11a (54Mbps)	149	5745	40000.00	39966.00	40000.00	-45.98	-45.93	-45.85
	165	5825	38538.00	39966.00	40000.00	-45.88	-44.36	-46.40
802.11an HT20 (104Mbps)	149	5745	40000.00	40000.00	40000.00	-46.61	-45.70	-45.51
	165	5825	40000.00	40000.00	39966.00	-44.52	-44.14	-45.94
802.11an HT40 (108Mbps)	151	5755	40000.00	40000.00	40000.00	-45.20	-45.52	-45.52
	159	5795	40000.00	40000.00	40000.00	-45.52	-45.52	-45.93



Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



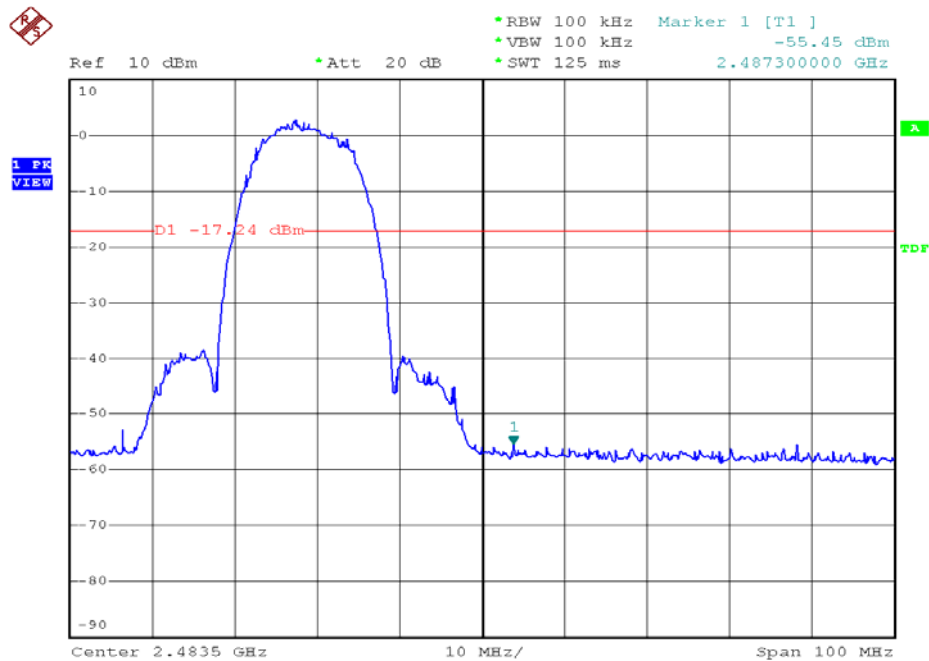
Date: 6.JAN.2009 10:40:07



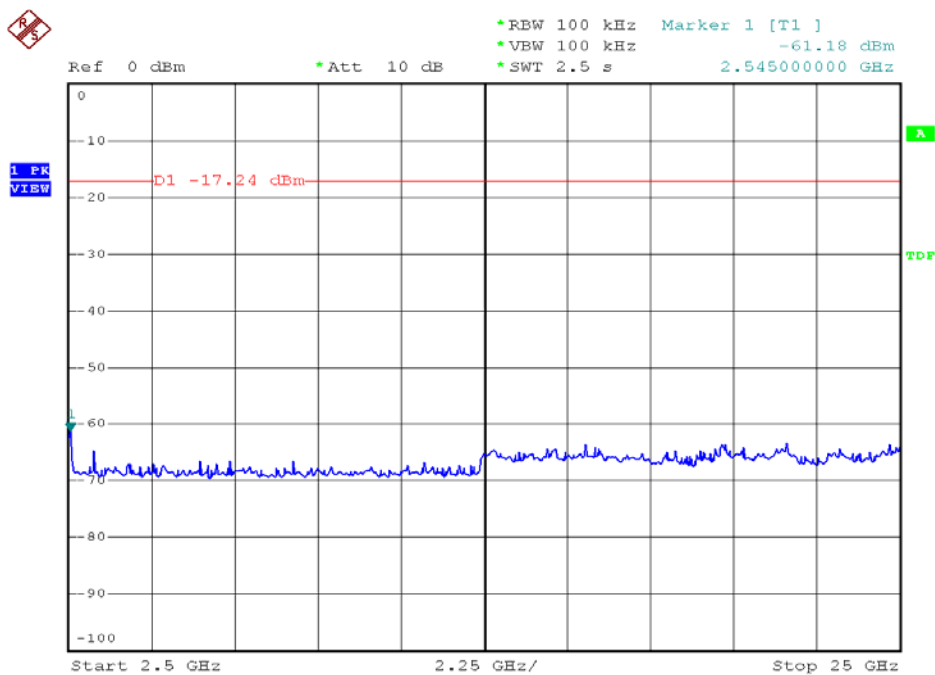
Date: 6.JAN.2009 11:29:27



Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



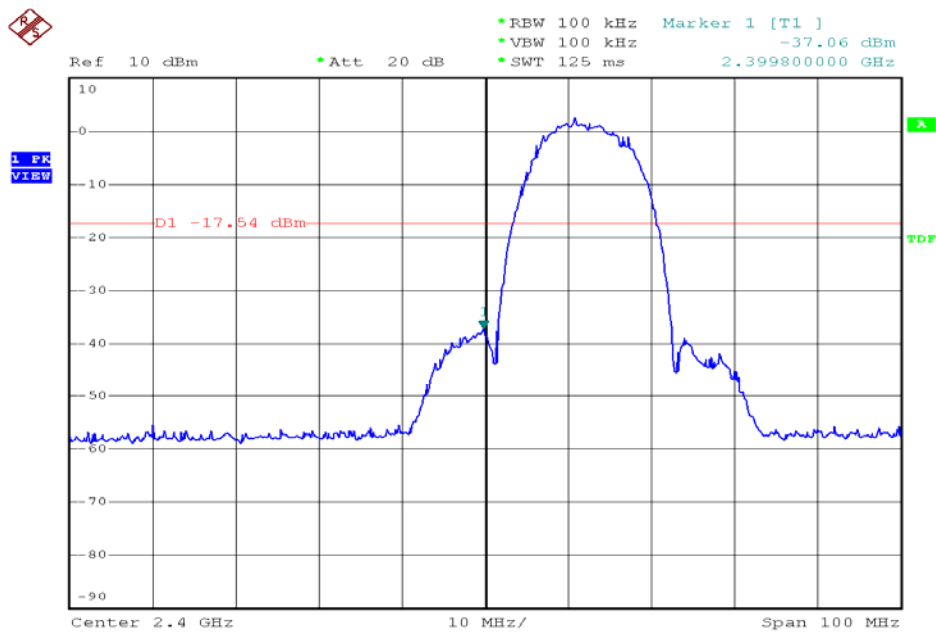
Date: 6.JAN.2009 10:48:28



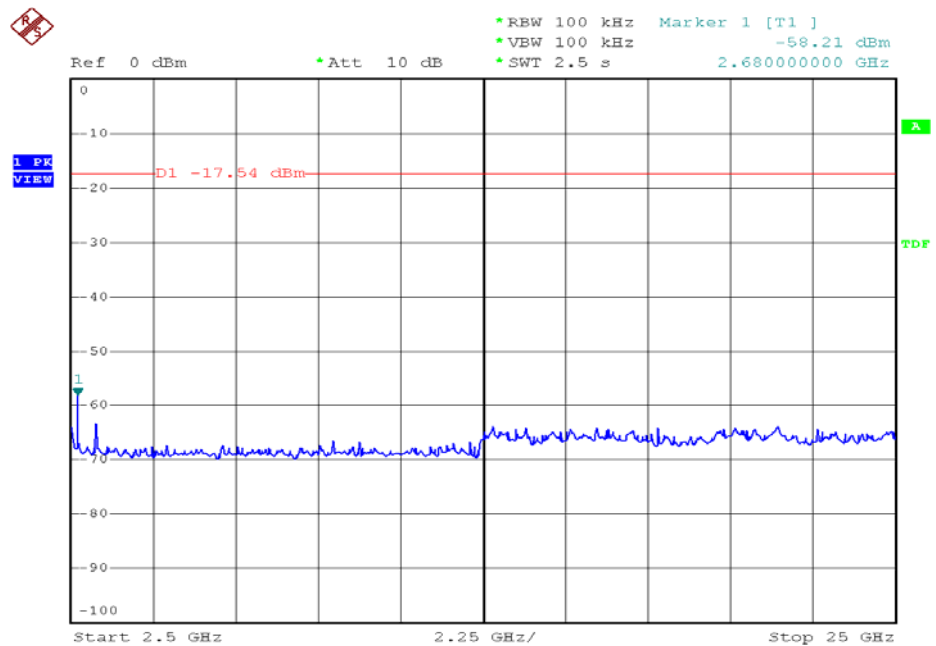
Date: 6.JAN.2009 11:41:35



Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



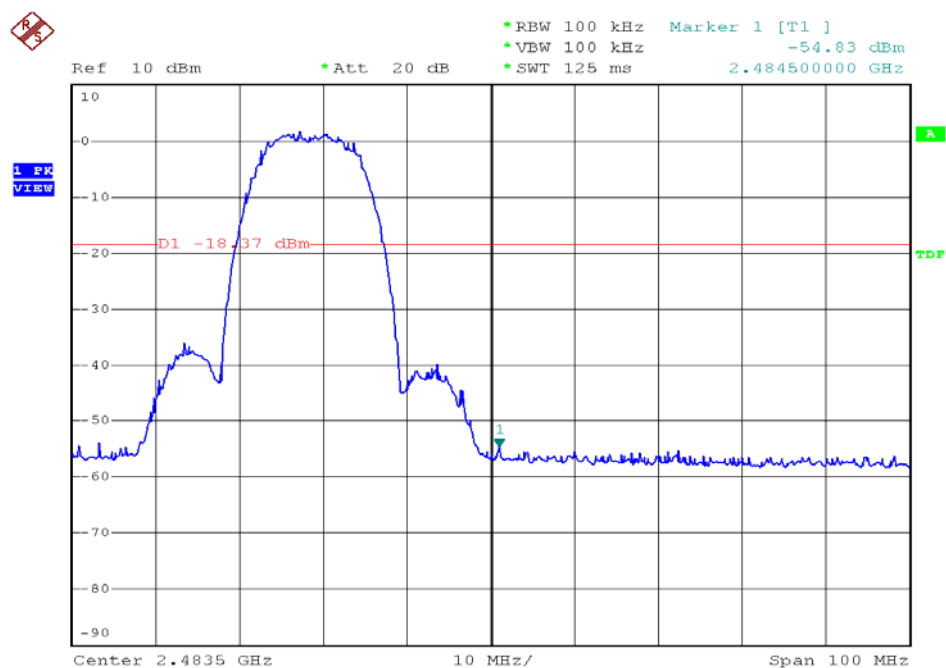
Date: 6.JAN.2009 10:38:40



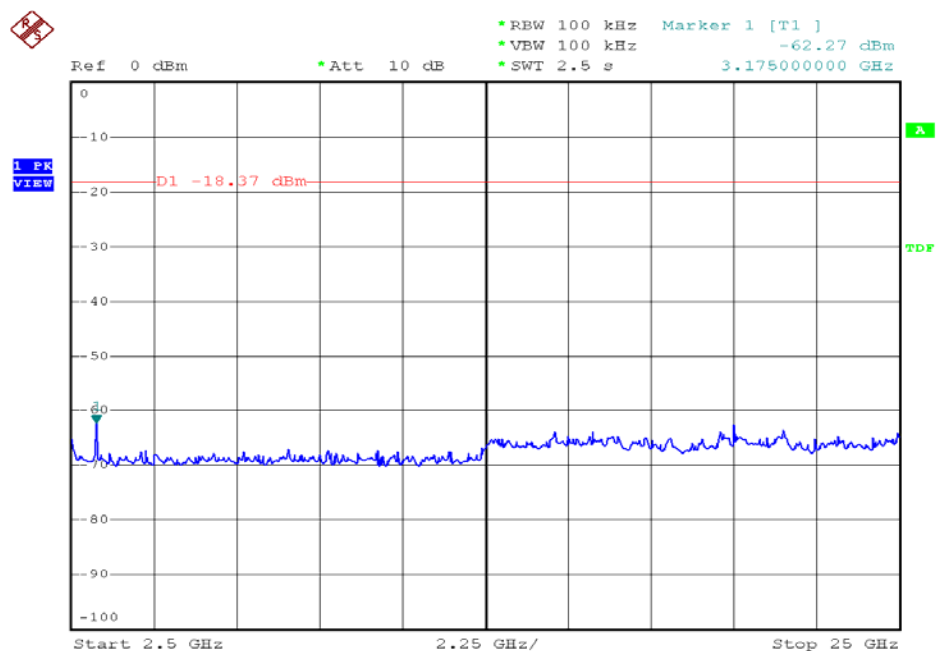
Date: 6.JAN.2009 11:28:37



Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



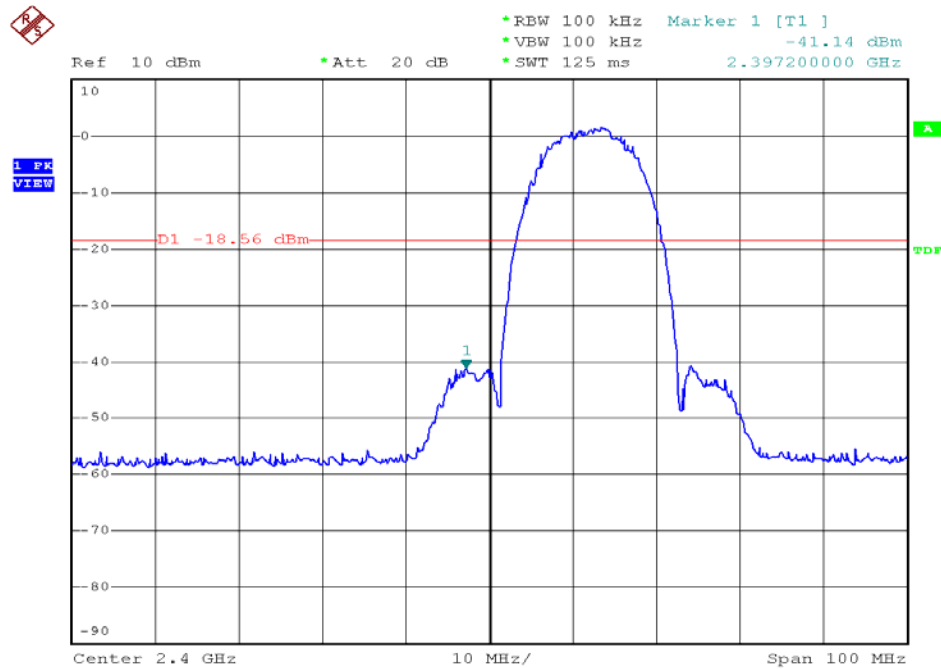
Date: 6.JAN.2009 10:47:15



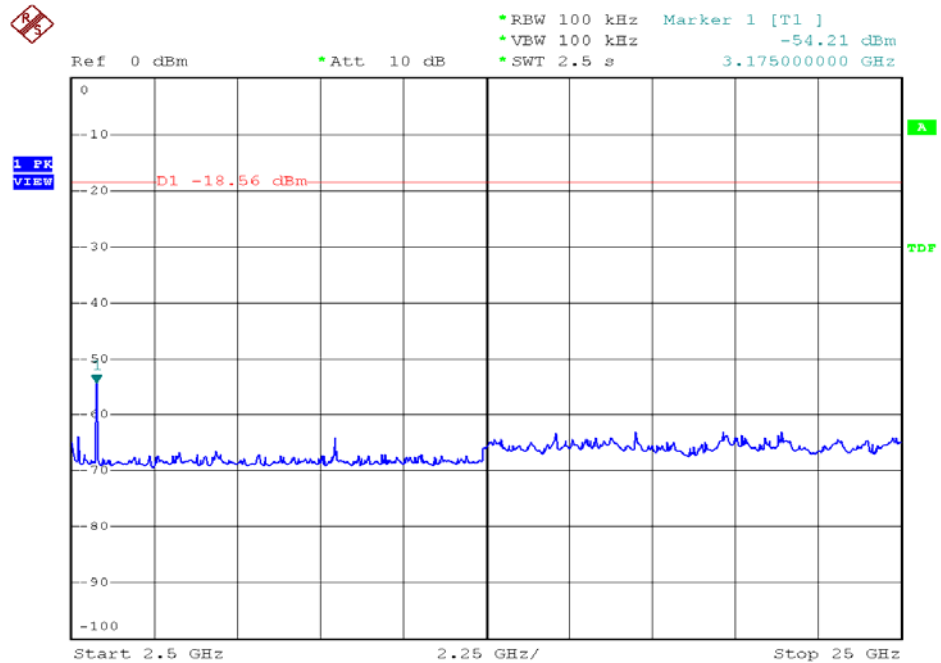
Date: 6.JAN.2009 11:40:42



Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 01



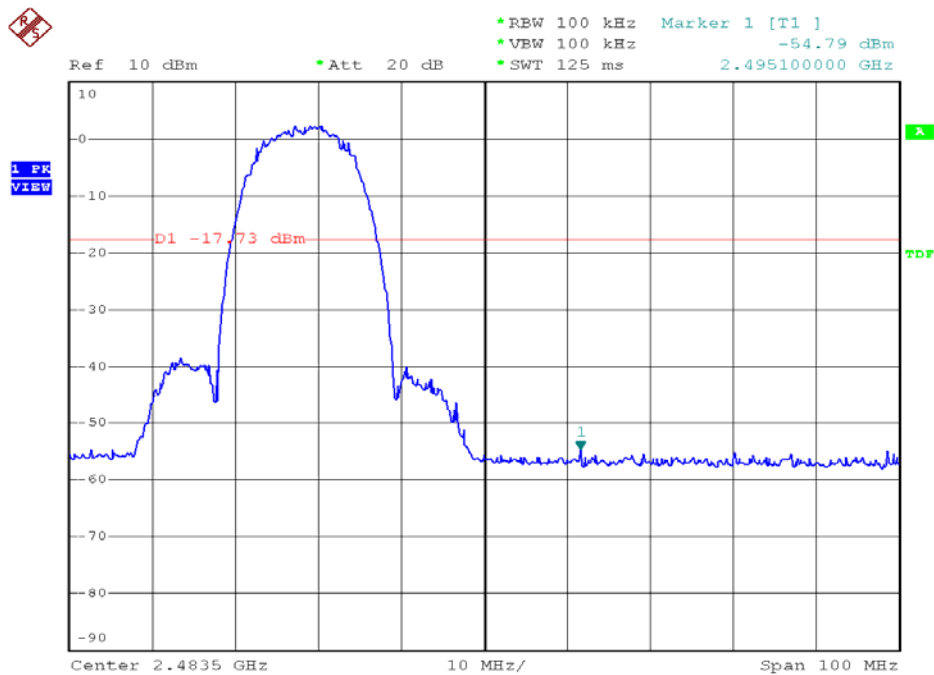
Date: 6.JAN.2009 10:37:09



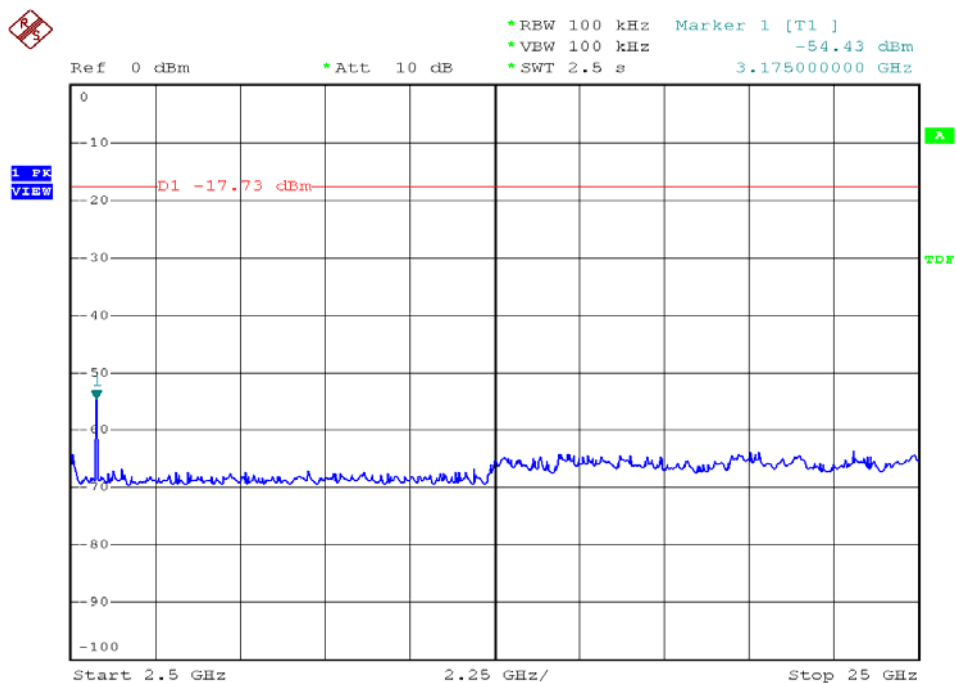
Date: 6.JAN.2009 11:27:44



Modulation Standard: 802.11b (11Mbps), Ant3
Channel: 11



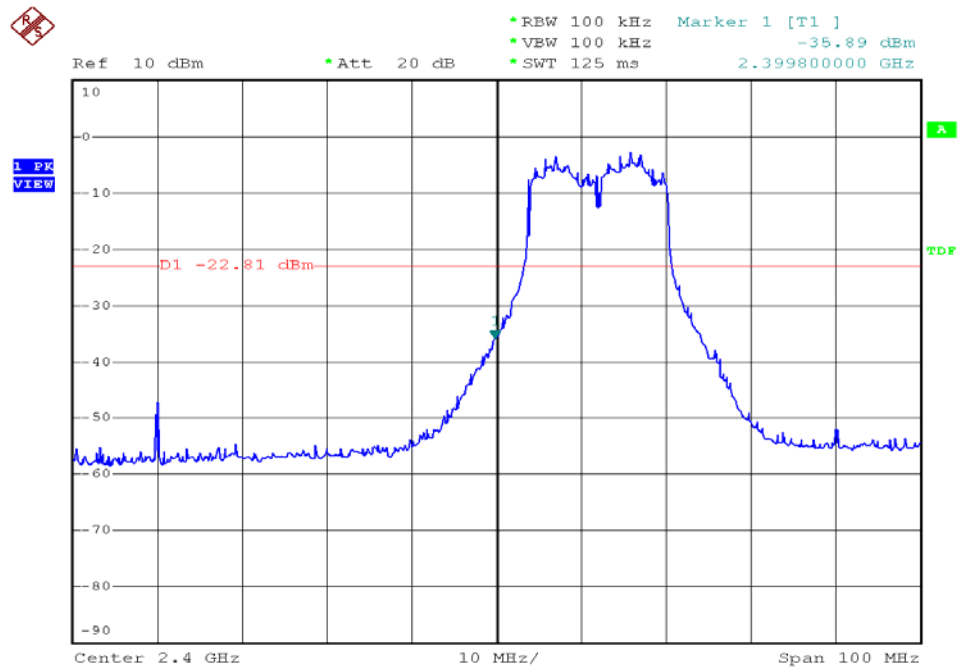
Date: 6.JAN.2009 10:45:26



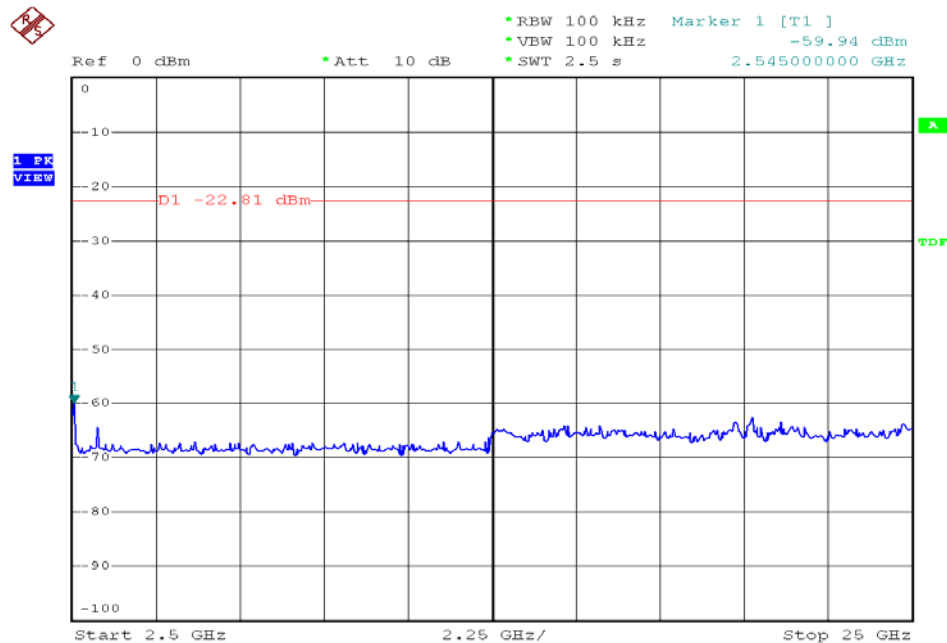
Date: 6.JAN.2009 11:39:42



Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



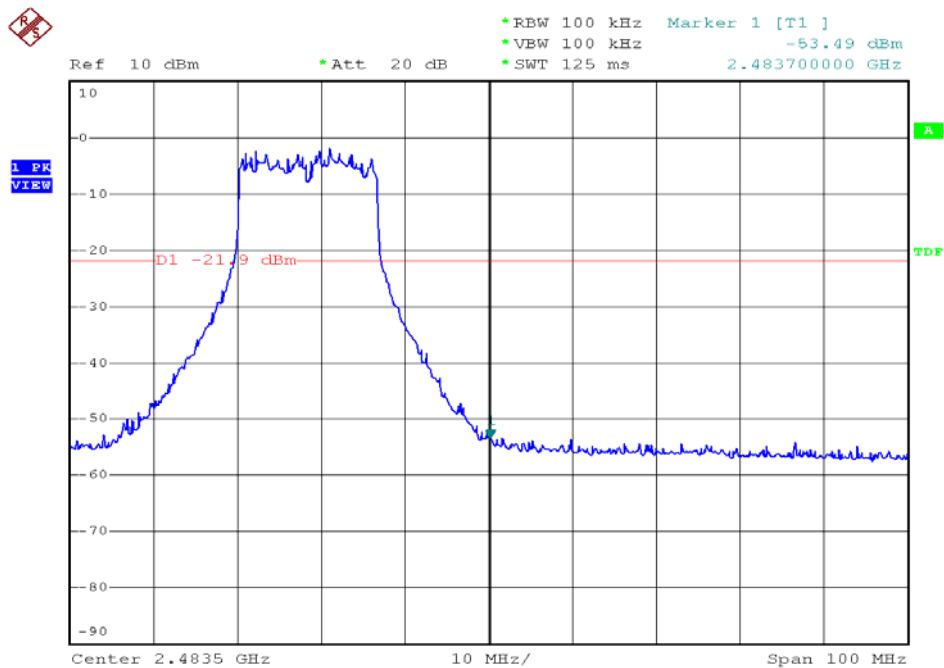
Date: 6.JAN.2009 10:56:23



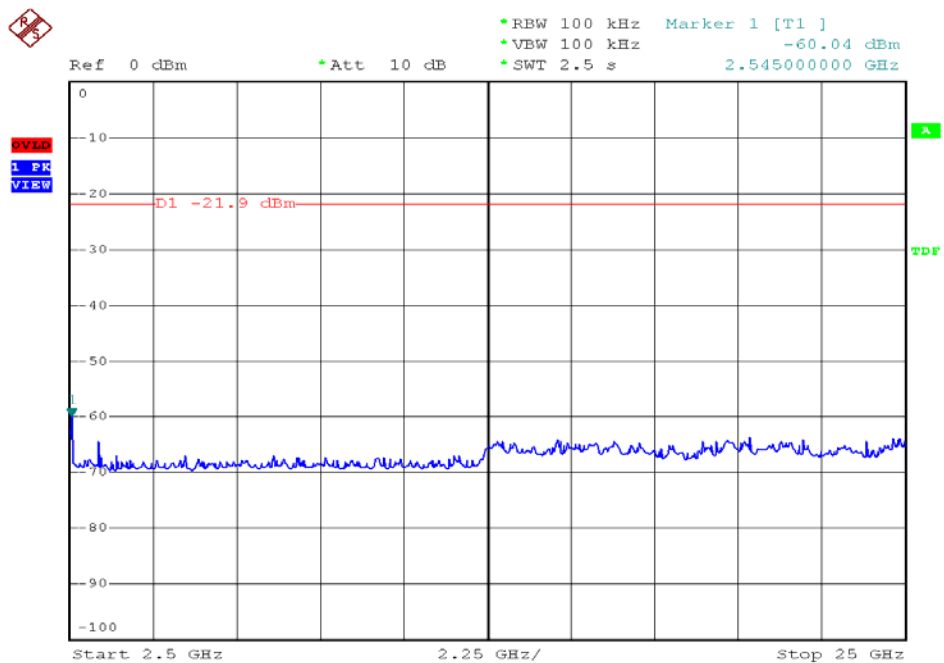
Date: 6.JAN.2009 11:46:10



Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



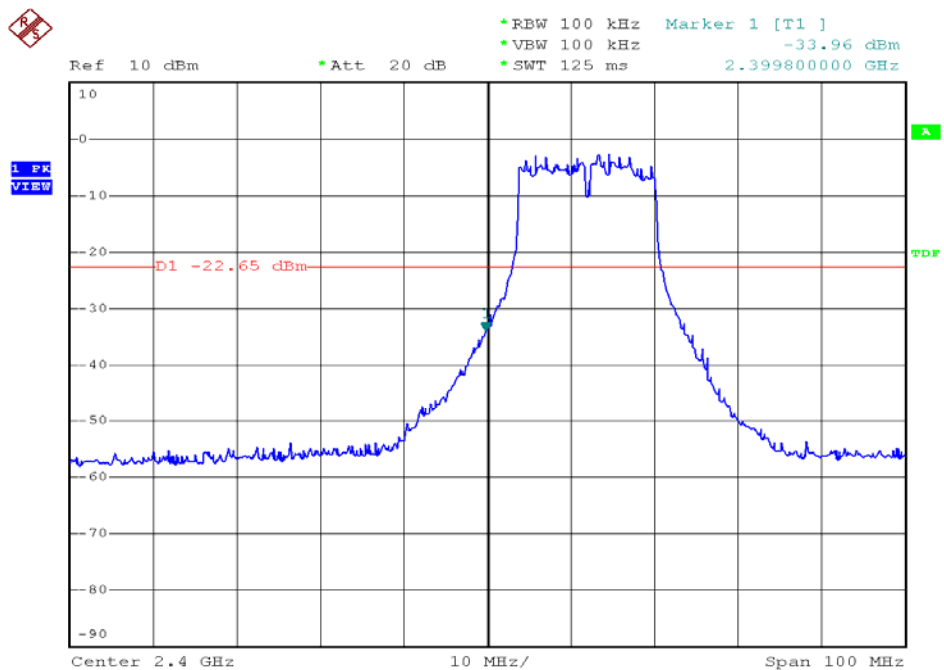
Date: 6.JAN.2009 11:01:45



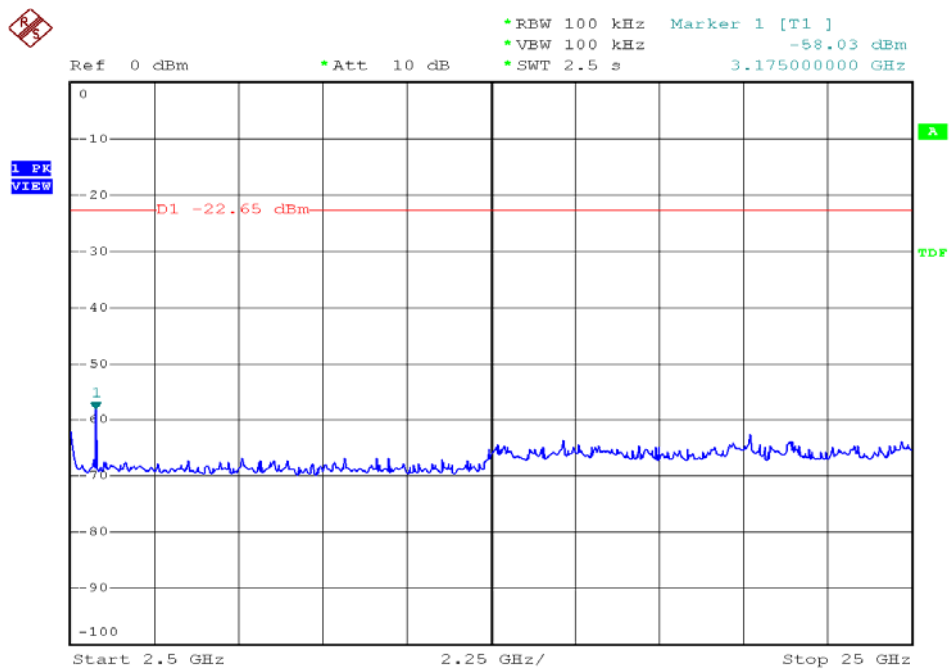
Date: 6.JAN.2009 11:49:05



Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



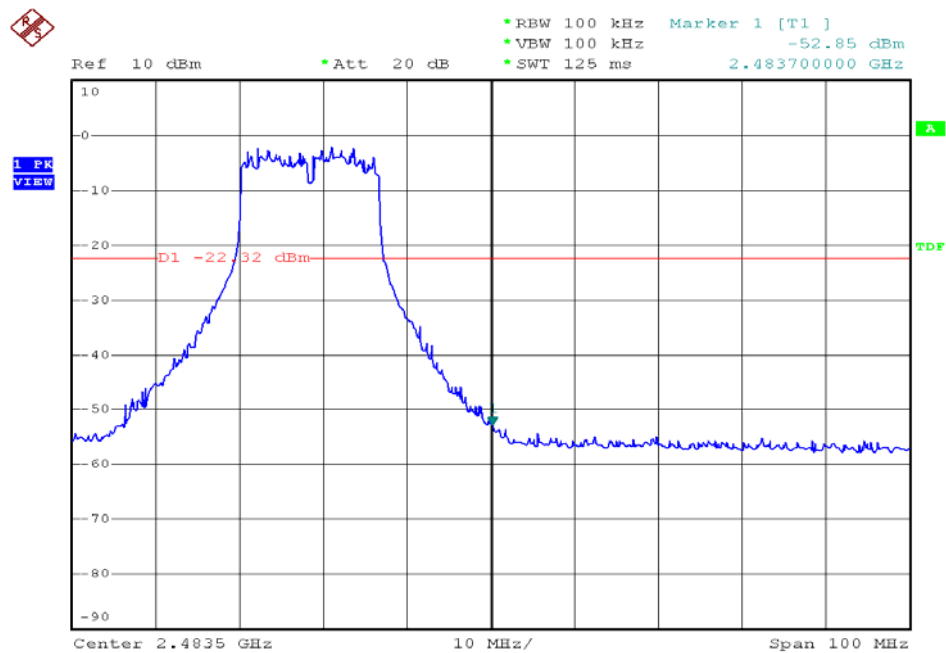
Date: 6.JAN.2009 10:55:10



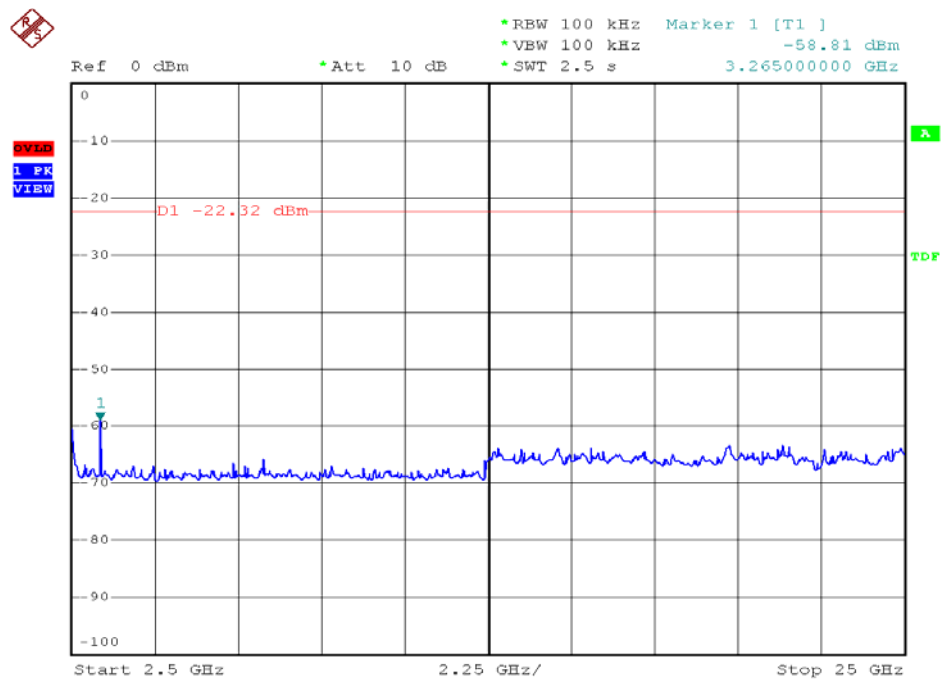
Date: 6.JAN.2009 11:45:11



Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



Date: 6.JAN.2009 11:00:22



Date: 6.JAN.2009 11:48:11