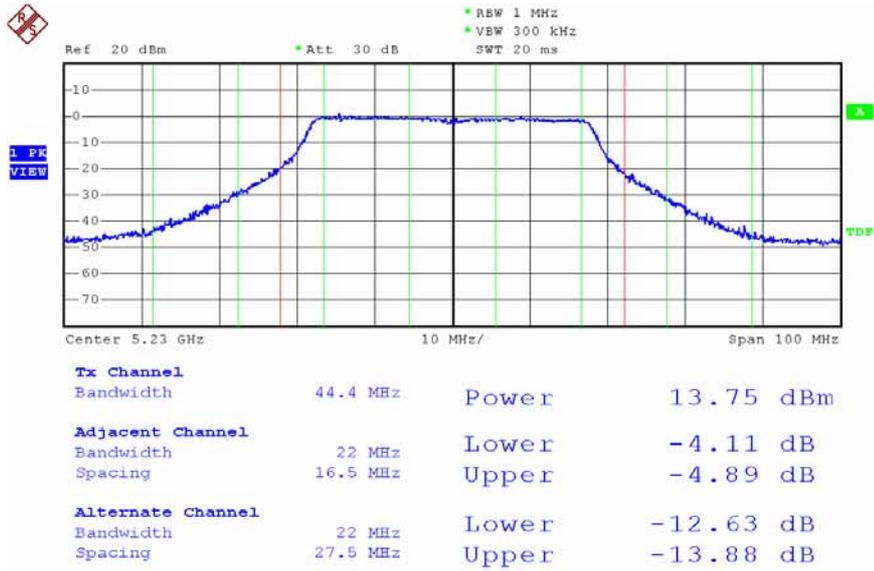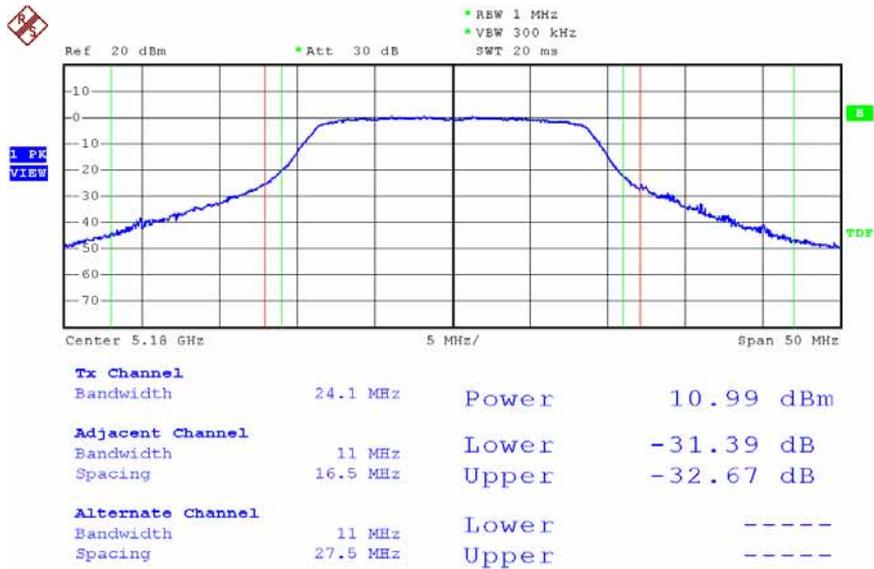Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
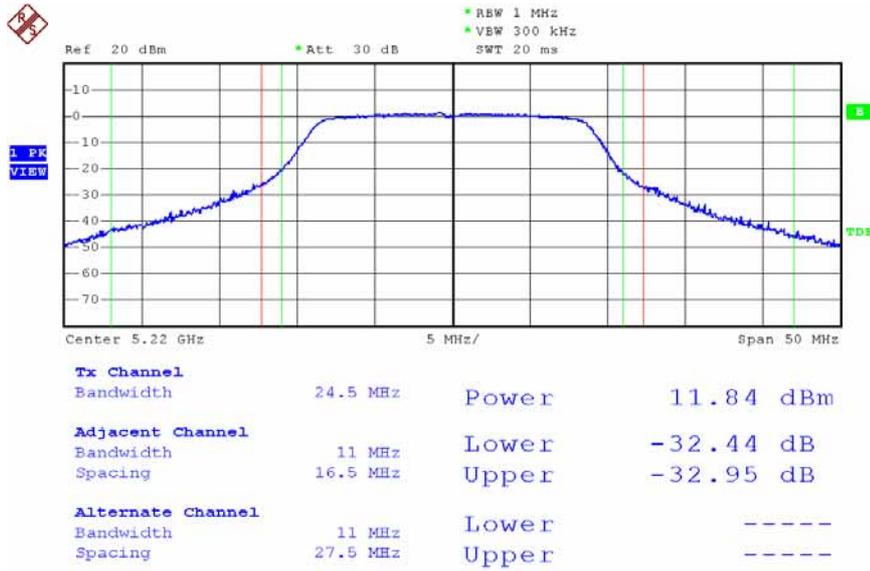Channel: 46

Date: 5.MAY.2008   15:41:40

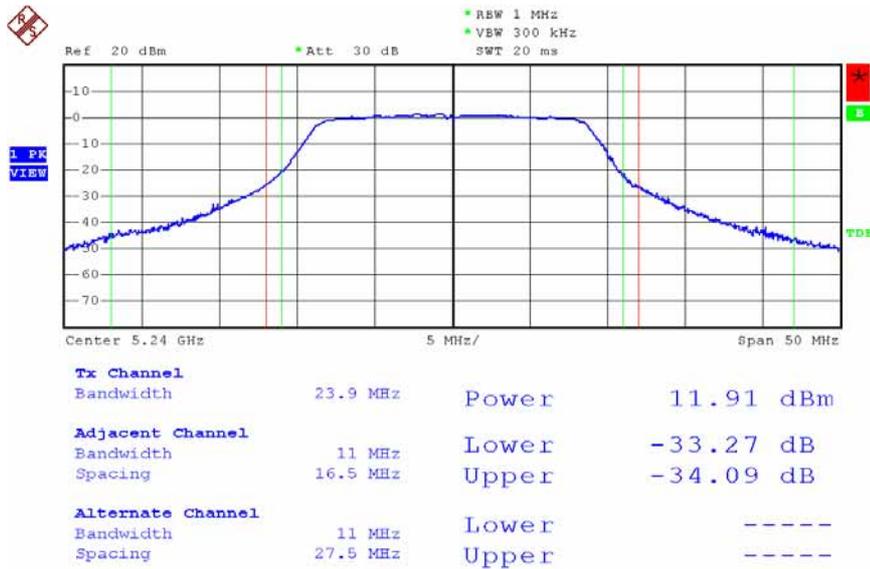Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-R
Channel: 36

Date: 29.APR.2008   22:40:13

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-R
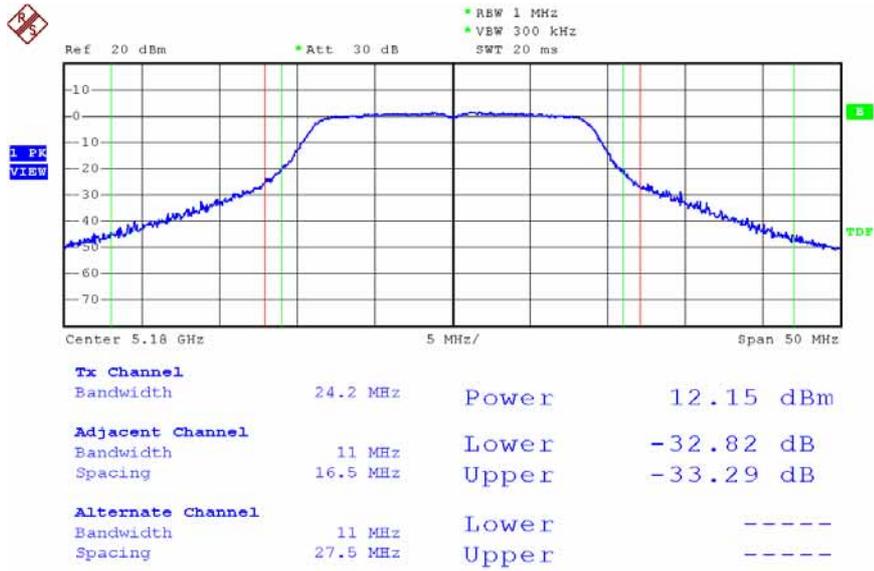Channel: 44

Date: 29.APR.2008 22:45:26

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-R
Channel: 48

Date: 29.APR.2008 22:51:32

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-M
Channel: 36


```
                                    * RBW 1 MHz
                                    * VBW 300 kHz
Ref  20 dBm        * Att  30 dB      SWT 20 ms
```

Date: 29.APR.2008 22:29:04

Tx Channel		Power	12.15 dBm
Bandwidth	24.2 MHz		
Adjacent Channel		Lower	-32.82 dB
Bandwidth	11 MHz	Upper	-33.29 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-M
Channel: 44


```
                                    * RBW 1 MHz
                                    * VBW 300 kHz
Ref  20 dBm        * Att  30 dB      SWT 20 ms
```

Date: 29.APR.2008 22:43:37

Tx Channel		Power	12.19 dBm
Bandwidth	23.9 MHz		
Adjacent Channel		Lower	-32.99 dB
Bandwidth	11 MHz	Upper	-34.71 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-M
Channel: 48

Date: 29.APR.2008 22:49:59

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-L
Channel: 36

Date: 29.APR.2008 22:27:27

Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-L
Channel: 44

Date: 29.APR.2008 22:46:52

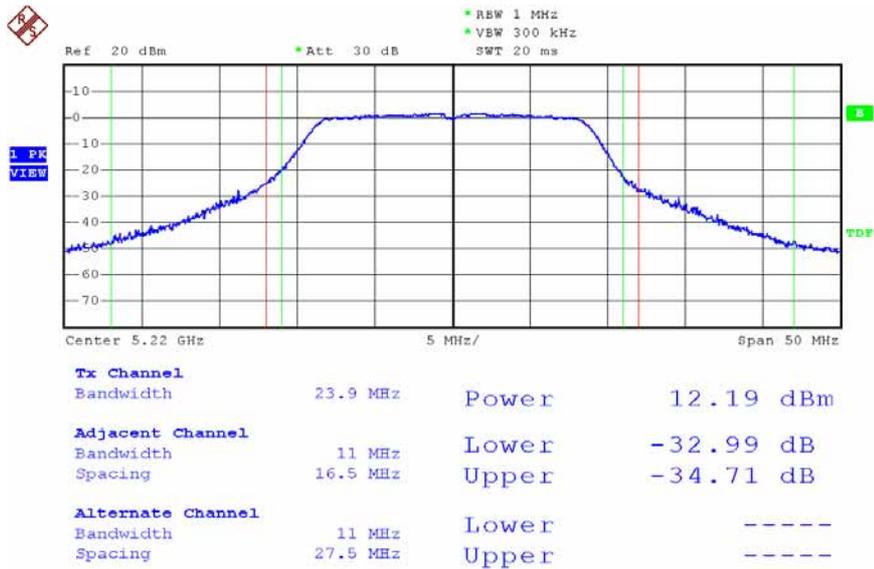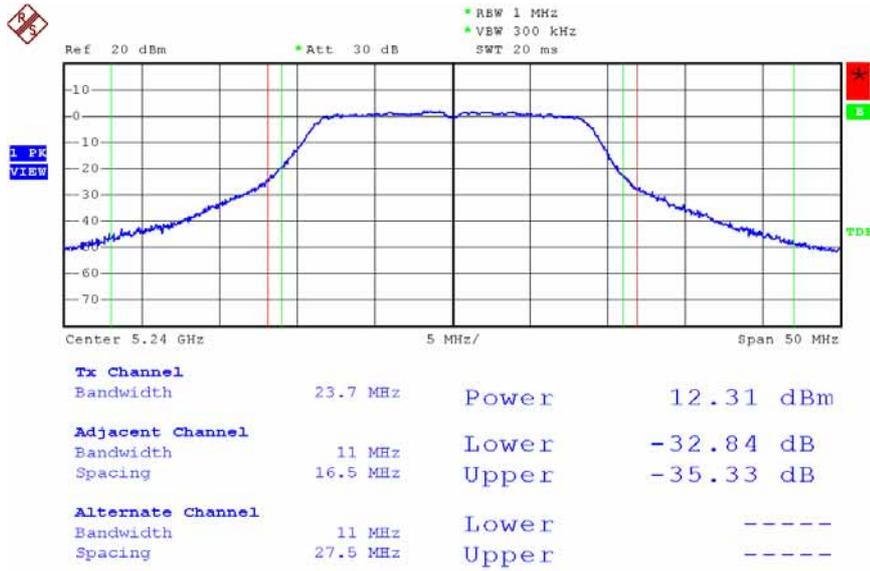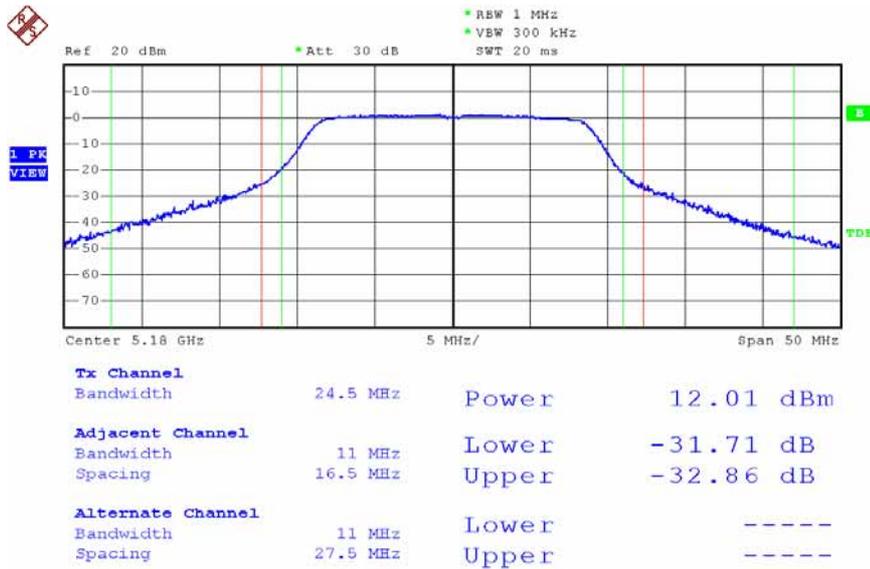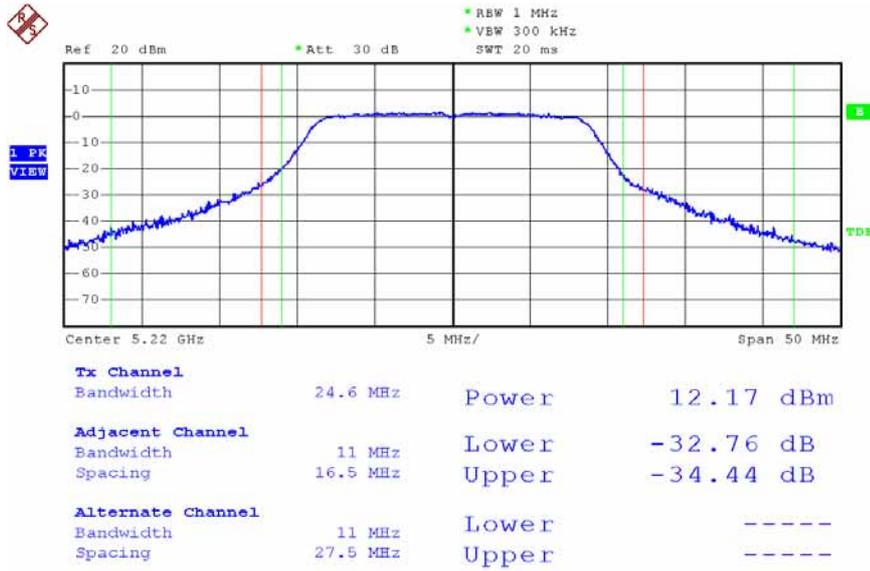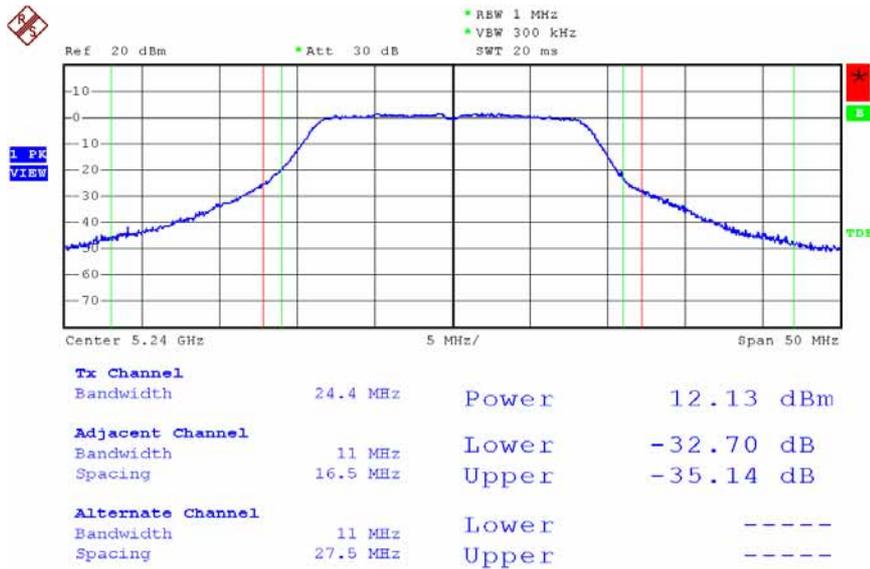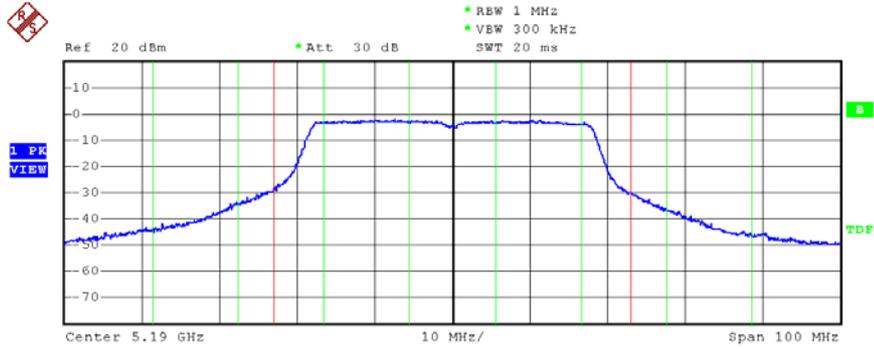Modulation Standard: 802.11an, HT20 (6.5Mbps) - ANT-L
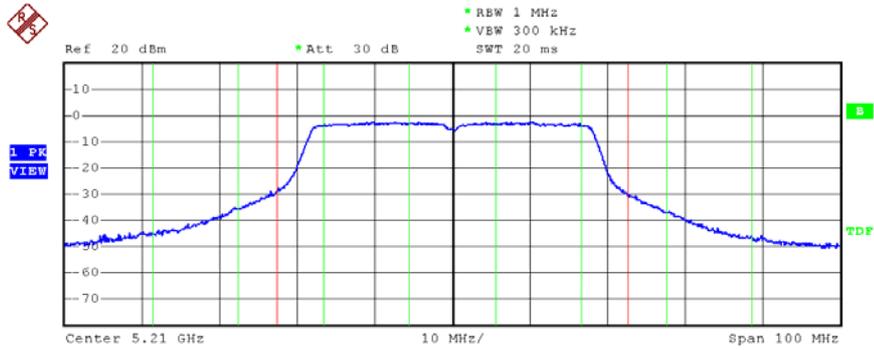Channel: 48

Date: 29.APR.2008 22:48:29

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-R
Channel: 38

Date: 29.APR.2008 22:57:06

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-R
Channel: 42

Date: 29.APR.2008 23:20:56

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-R
Channel: 46


```
                              * RBW 1 MHz
                              * VBW 300 kHz
Ref  20 dBm      * Att  30 dB   SWT 20 ms
```
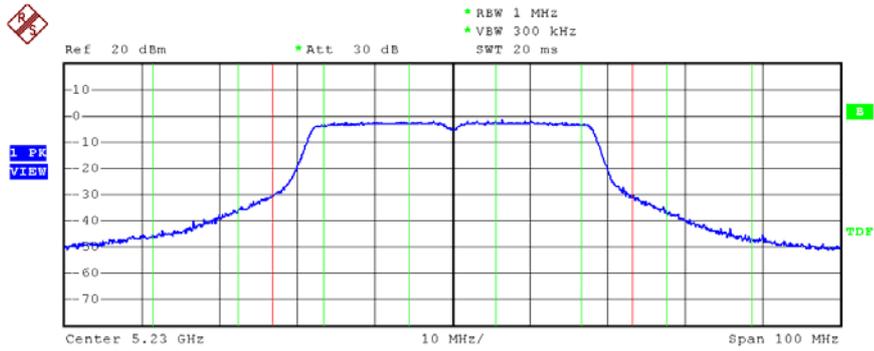
Tx Channel			
Bandwidth	46.2 MHz	Power	11.94 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.63 dB
Spacing	16.5 MHz	Upper	-4.46 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.82 dB
Spacing	27.5 MHz	Upper	-13.40 dB

Date: 29.APR.2008 23:27:51

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-M
Channel: 38


```
                              * RBW 1 MHz
                              * VBW 300 kHz
Ref  20 dBm      * Att  30 dB   SWT 20 ms
```
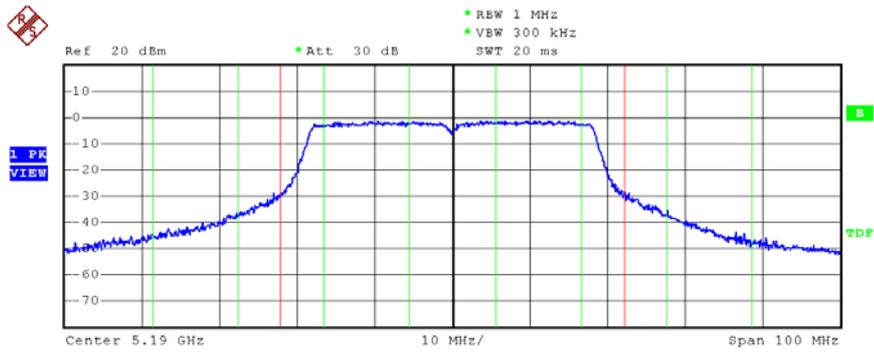
Tx Channel			
Bandwidth	44.2 MHz	Power	12.58 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.70 dB
Spacing	16.5 MHz	Upper	-4.29 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.65 dB
Spacing	27.5 MHz	Upper	-13.06 dB

Date: 29.APR.2008 22:59:33

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-M
Channel: 42
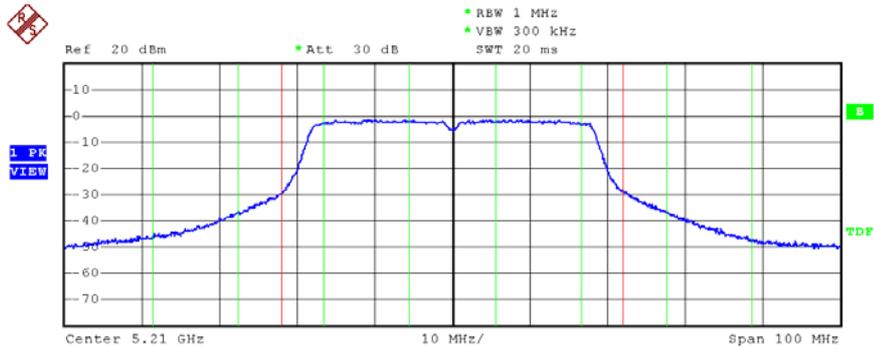
Tx Channel			
Bandwidth	43.8 MHz	Power	12.55 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.53 dB
Spacing	16.5 MHz	Upper	-4.50 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.95 dB
Spacing	27.5 MHz	Upper	-13.44 dB

Date: 29.APR.2008 23:07:06

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-M
Channel: 46
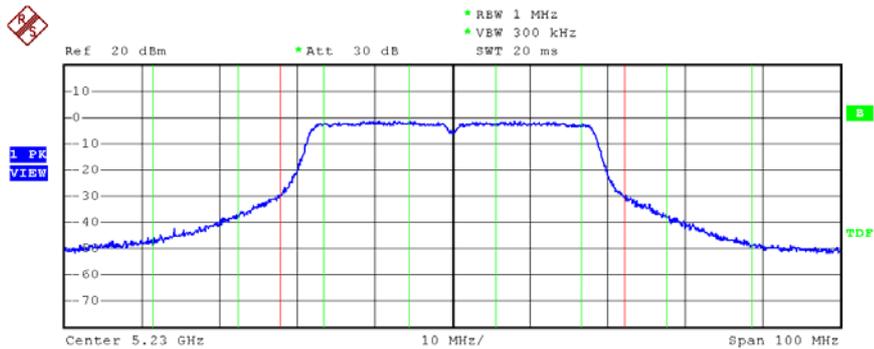
Tx Channel			
Bandwidth	44.2 MHz	Power	12.38 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.40 dB
Spacing	16.5 MHz	Upper	-4.57 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.38 dB
Spacing	27.5 MHz	Upper	-13.45 dB

Date: 29.APR.2008 23:26:02

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-L
Channel: 38
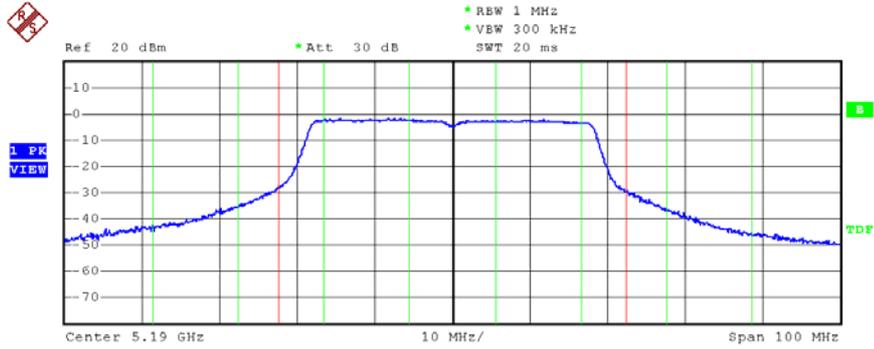
Date: 30.APR.2008 13:51:34

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-L
Channel: 42
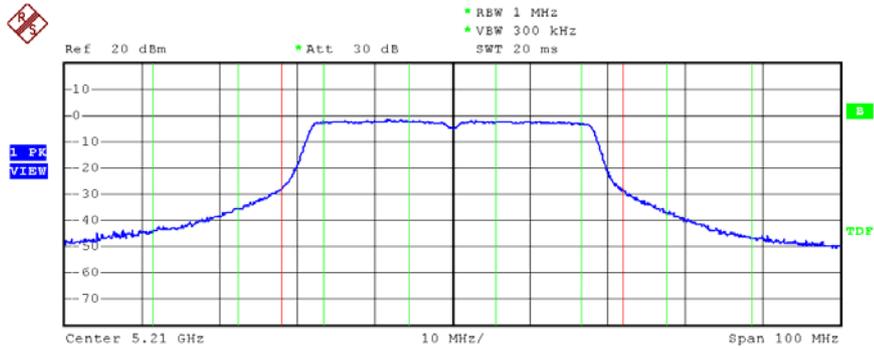
Date: 29.APR.2008 23:04:47

Modulation Standard: 802.11an, HT40 (13.5Mbps) - ANT-L
Channel: 46
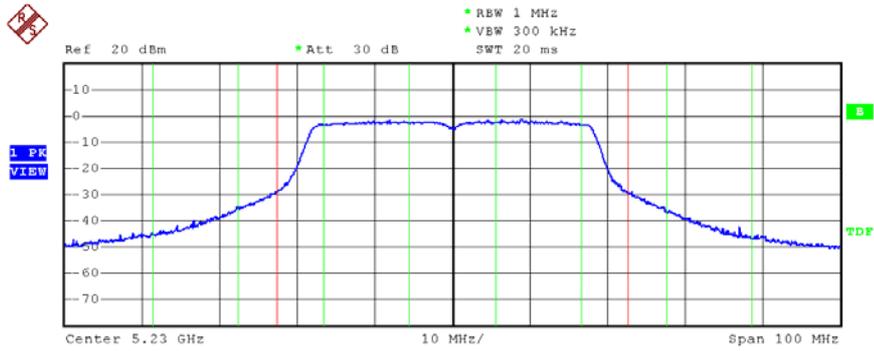

```
                                        * RBW 1 MHz
                                        * VBW 300 kHz
Ref  20 dBm          * Att  30 dB       SWT 20 ms
```

Date: 29.APR.2008   23:25:01

Tx Channel			Power	12.27 dBm
Bandwidth	45 MHz			
Adjacent Channel			Lower	-4.66 dB
Bandwidth	22 MHz		Upper	-4.41 dB
Spacing	16.5 MHz			
Alternate Channel			Lower	-13.83 dB
Bandwidth	22 MHz		Upper	-13.60 dB
Spacing	27.5 MHz			

26dB Occupied Bandwidth
Modulation Standard: 802.11a (6Mbps) - ANT-L
Channel: 36
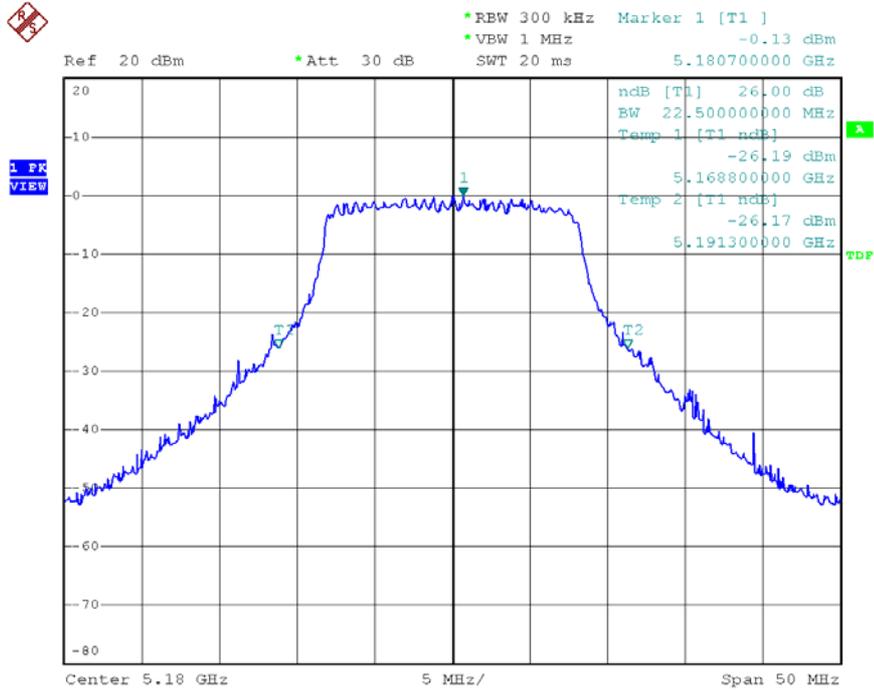
Date: 28.MAR.2008 11:49:46

Modulation Standard: 802.11a (6Mbps) - ANT-L
Channel: 44

Date: 28.MAR.2008 11:52:59

Modulation Standard: 802.11a (6Mbps) - ANT-L
Channel: 48
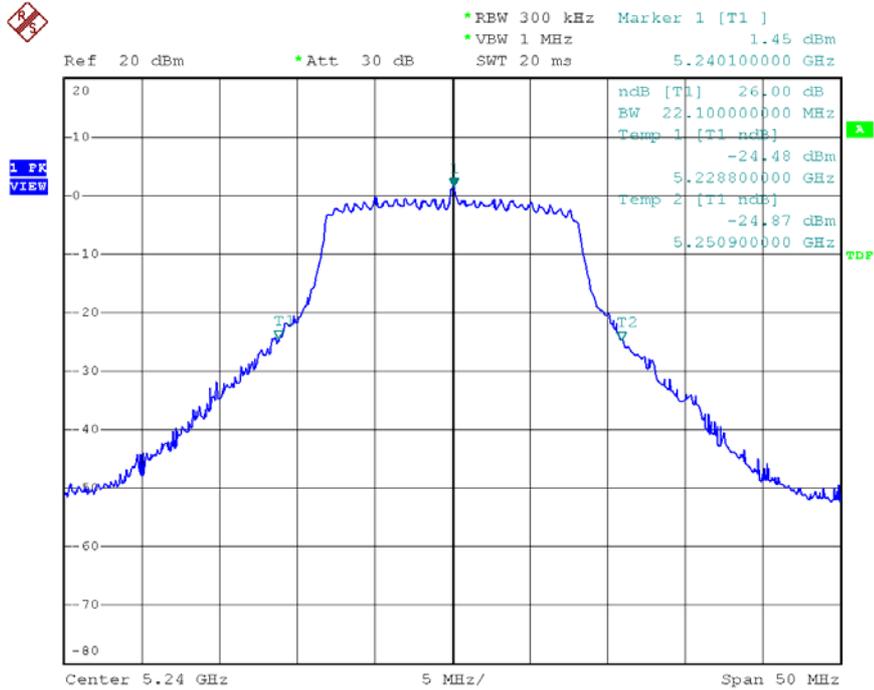
Date: 28.MAR.2008 11:56:00

Modulation Standard: 802.11a (6Mbps) - ANT-M
Channel: 36
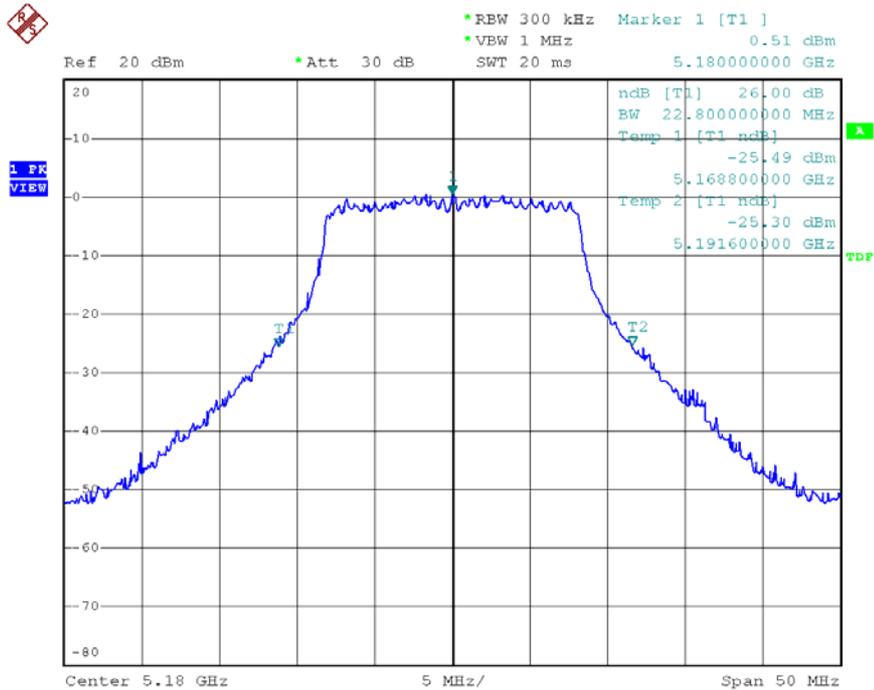
Date: 27.MAR.2008 16:26:04

Modulation Standard: 802.11a (6Mbps) - ANT-M
Channel: 44
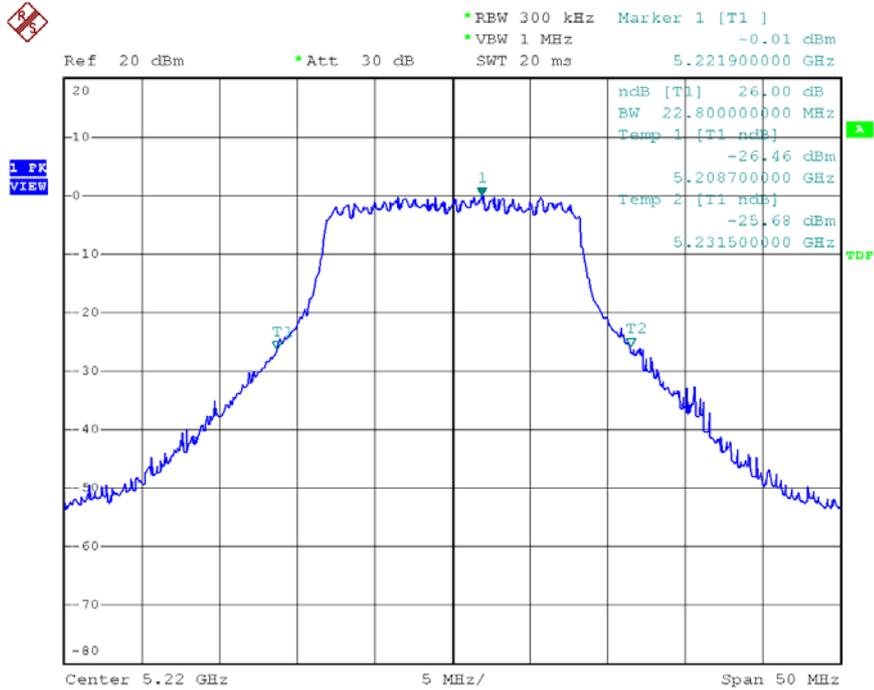
Date: 27.MAR.2008 16:30:29

Modulation Standard: 802.11a (6Mbps) - ANT-M
Channel: 48
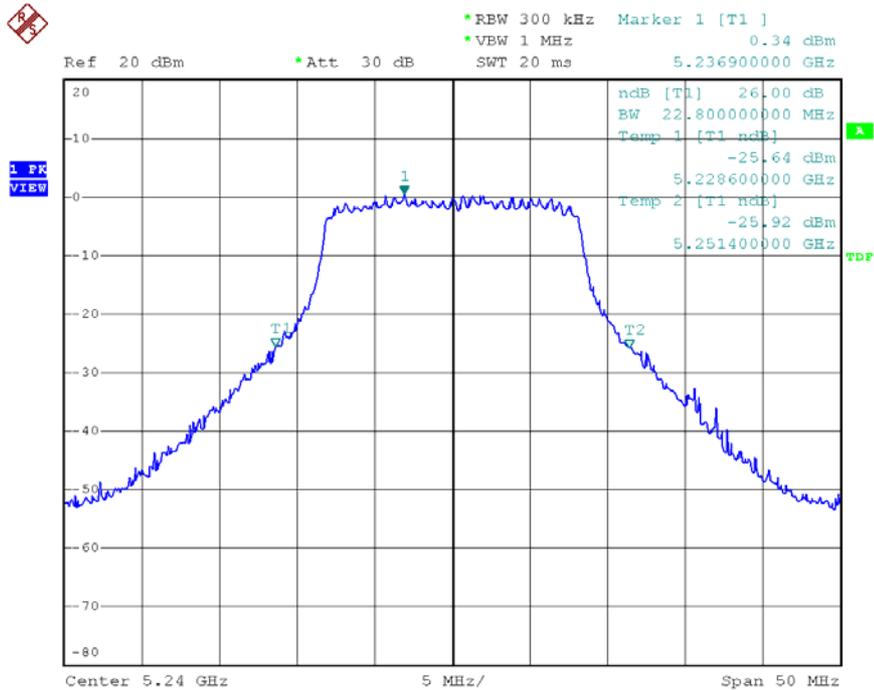
Date: 27.MAR.2008 16:33:30

Modulation Standard: 802.11a (6Mbps) - ANT-R
Channel: 36
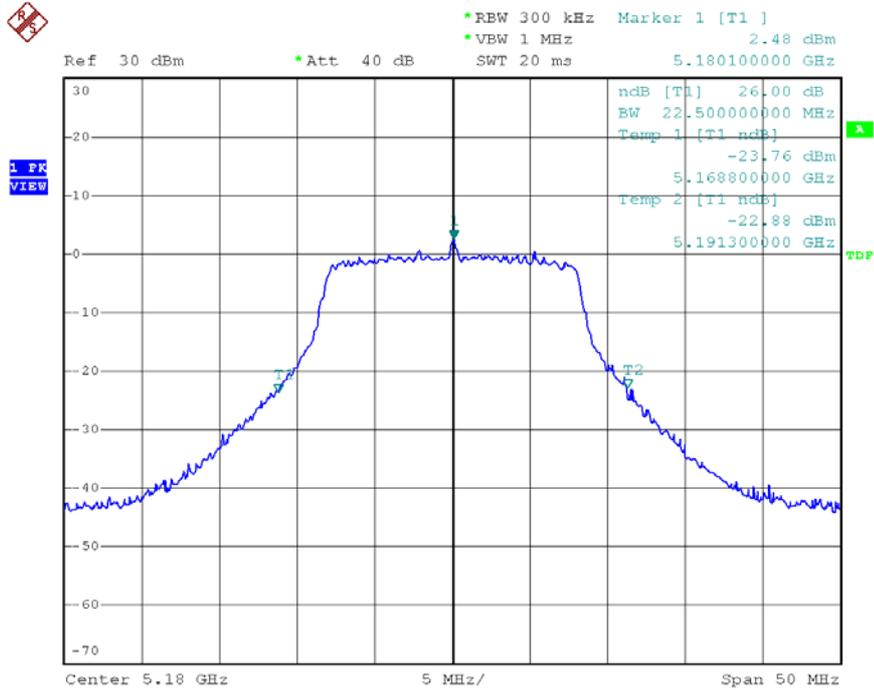
Date: 27.MAR.2008 13:23:45

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 44
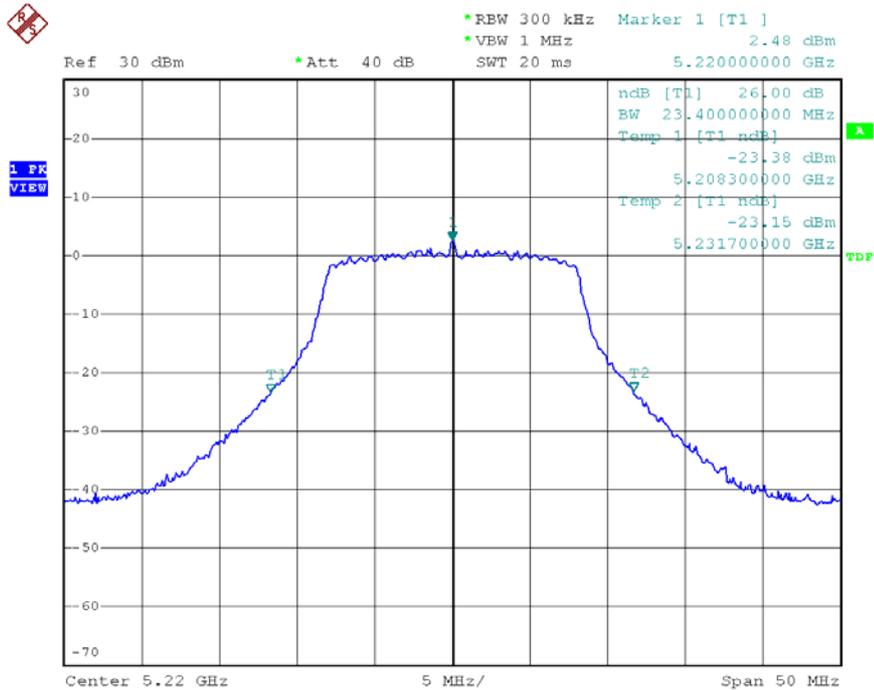
Date: 27.MAR.2008 13:32:24

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 48
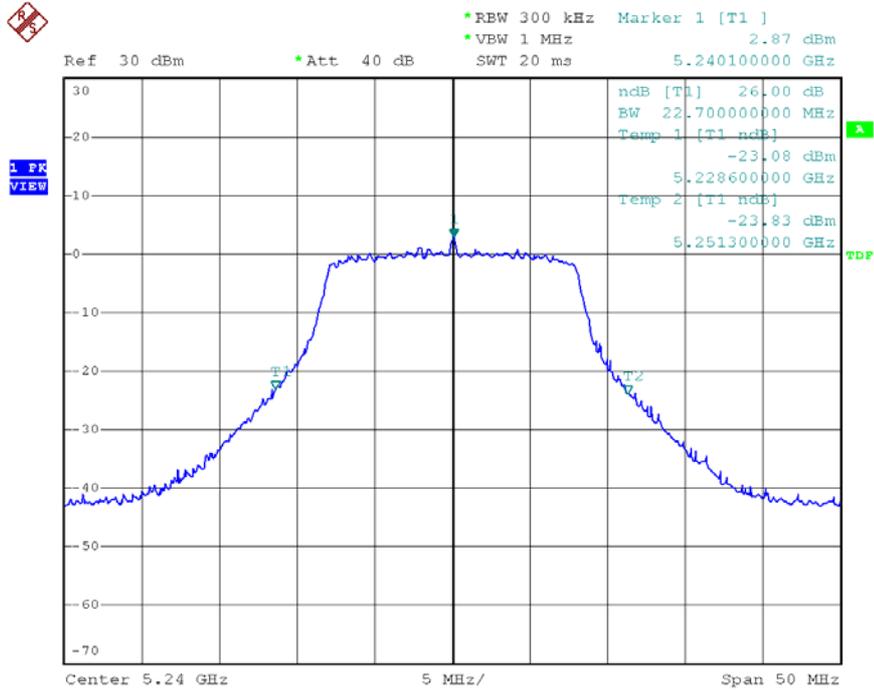
Date: 27.MAR.2008 13:37:47

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36
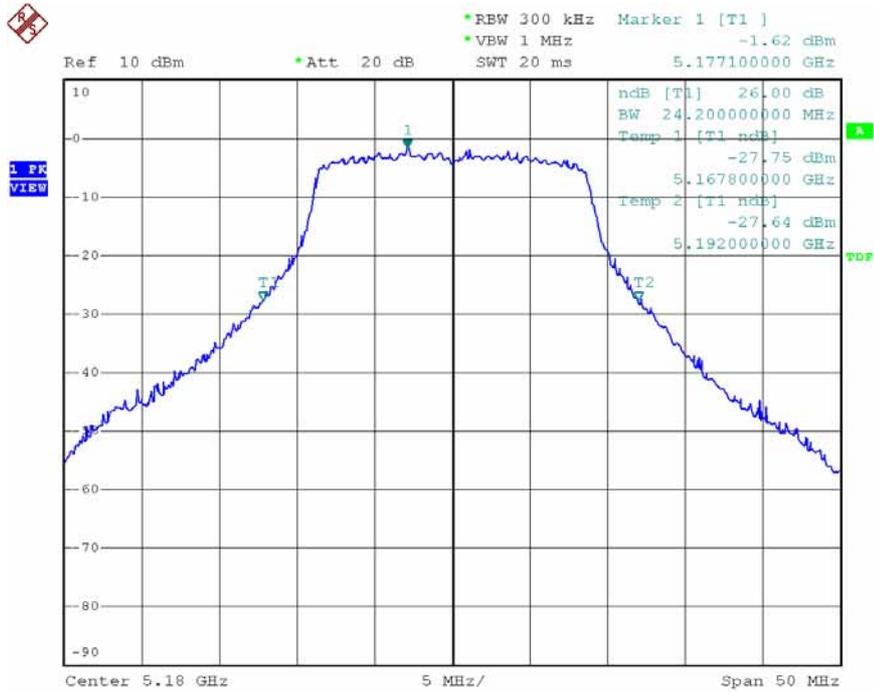
Date: 29.APR.2008 20:50:41

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44

Date: 29.APR.2008 21:02:34

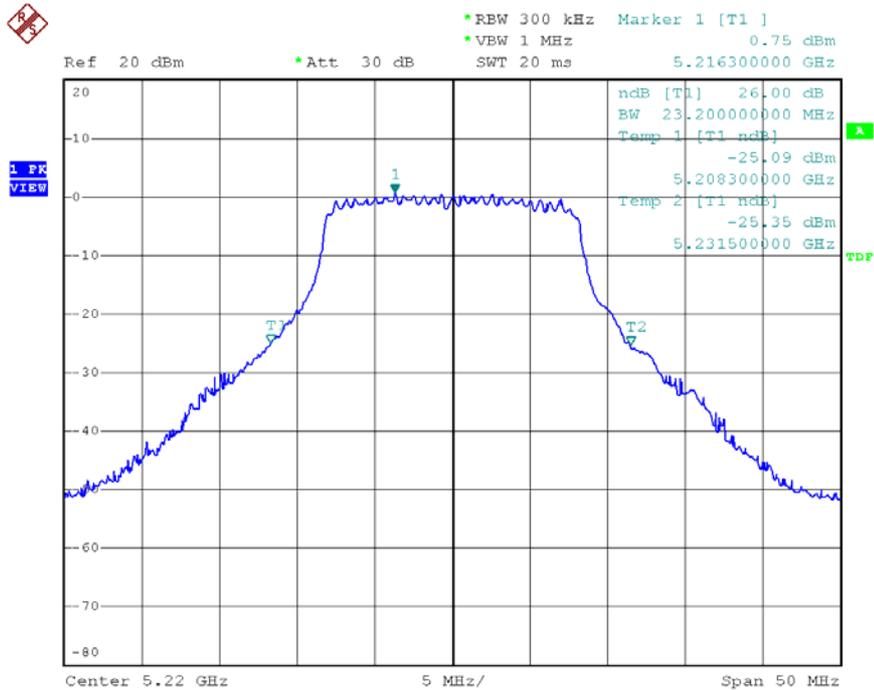Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48

Date: 29.APR.2008 21:18:43

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36

Date: 29.APR.2008 20:45:56

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44

Date: 29.APR.2008 21:06:53

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 48

Date: 29.APR.2008 21:09:34

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38

Date: 29.APR.2008 22:06:03

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 42

Date: 29.APR.2008 22:12:34

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 46

Date: 29.APR.2008 22:15:32

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 38

Date: 29.APR.2008 22:07:08

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42

Date: 29.APR.2008 22:09:23

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 46

Date: 29.APR.2008 22:17:26

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36

Date: 29.APR.2008 22:40:31

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44
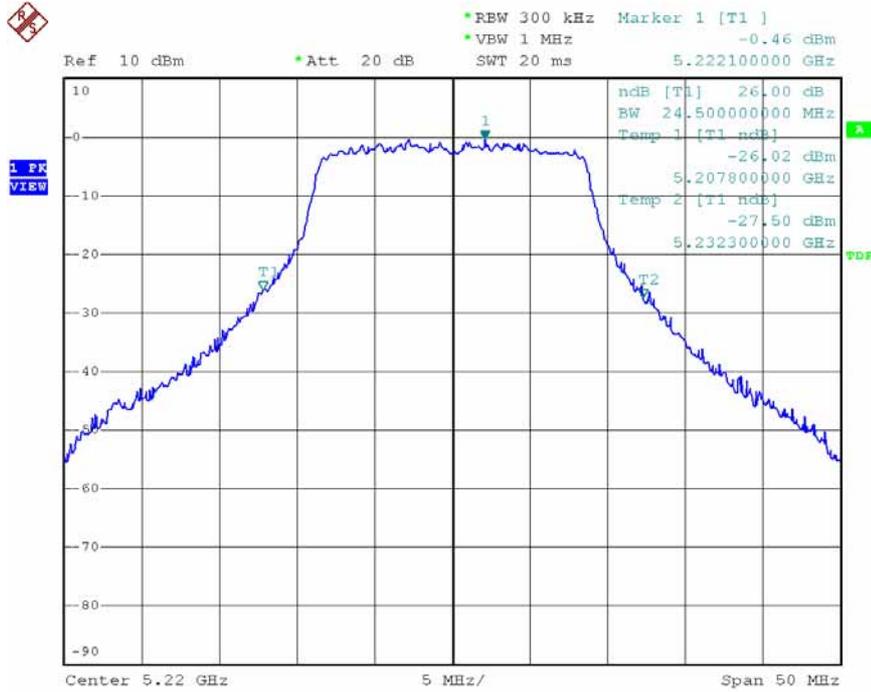
Date: 29.APR.2008 22:45:50

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48

Date: 29.APR.2008 22:51:42

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 36

Date: 29.APR.2008 22:29:15

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 44

Date: 29.APR.2008 22:43:25

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 48

Date: 29.APR.2008 22:50:11

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36

Date: 29.APR.2008 22:27:36

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44

Date: 29.APR.2008 22:47:01

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 48

Date: 29.APR.2008 22:48:41

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38

Date: 29.APR.2008 22:58:48

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
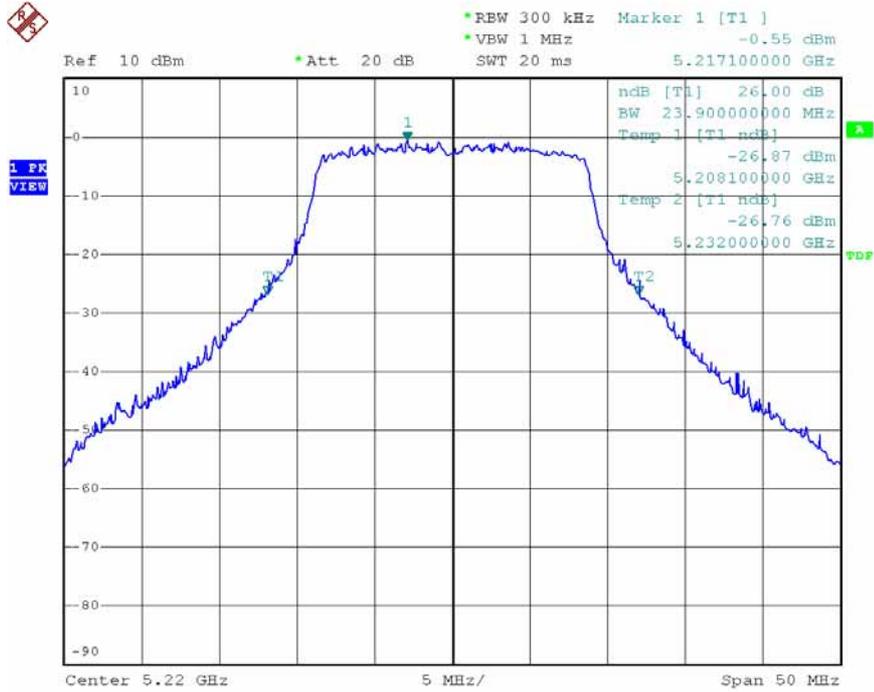Channel: 42

Date: 29.APR.2008 23:21:05

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 46

Date: 29.APR.2008 23:28:12

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 38

Date: 29.APR.2008 22:59:42

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
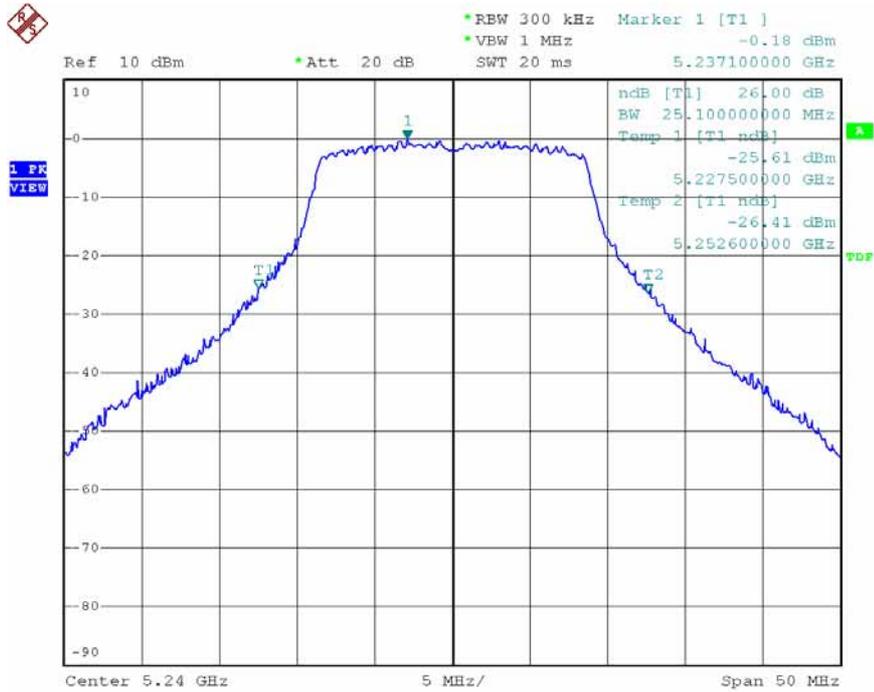Channel: 42

Date: 29.APR.2008 23:07:16

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
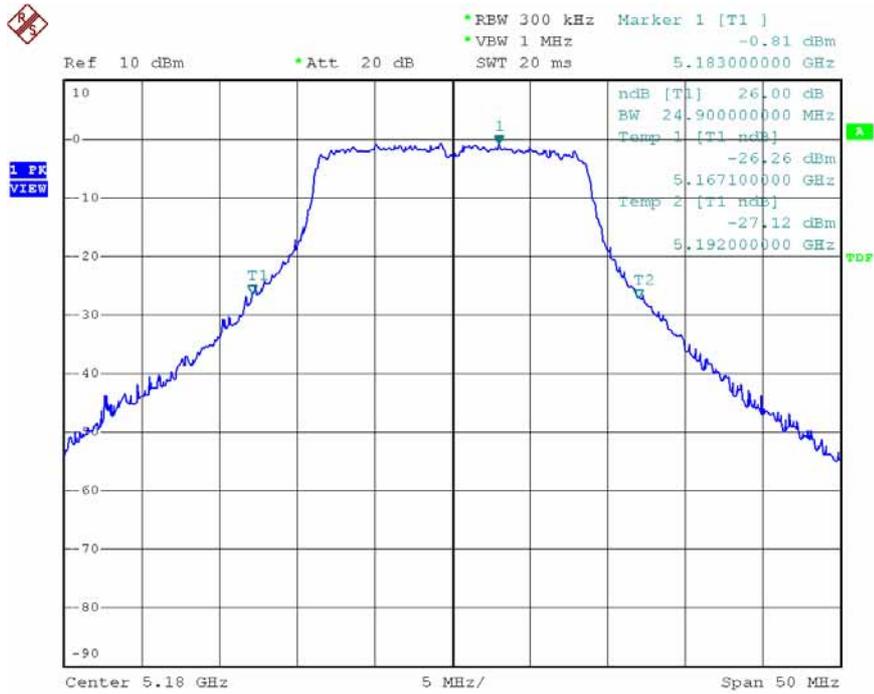Channel: 46

Date: 29.APR.2008 23:26:14

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
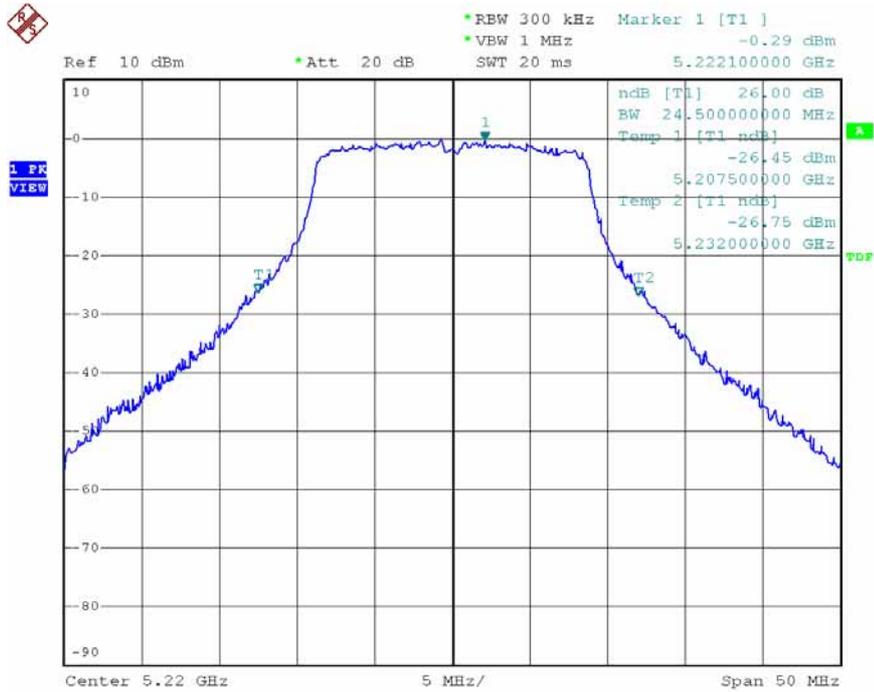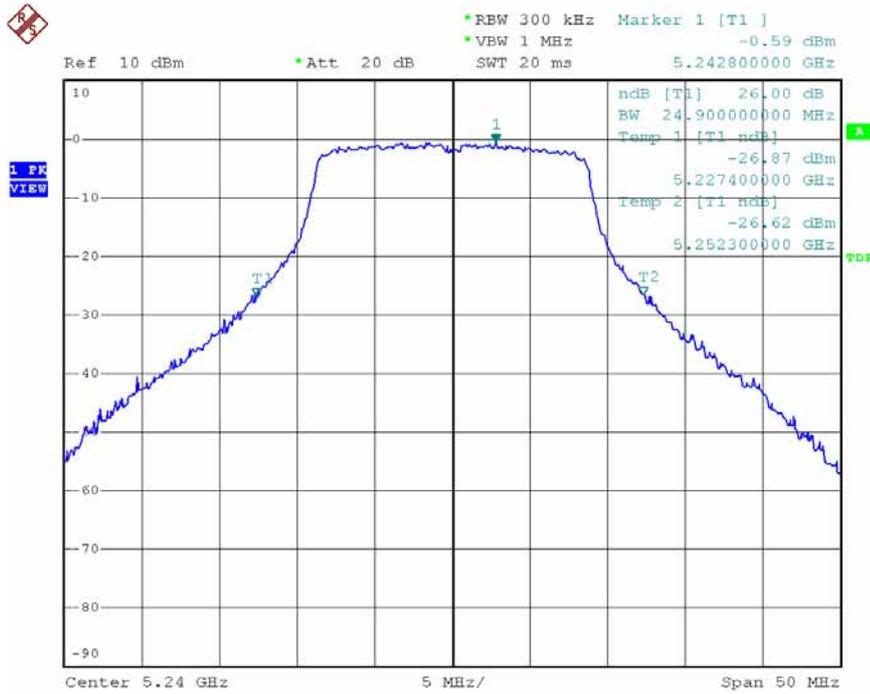Channel: 38

Date: 29.APR.2008 23:00:31

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42

Date: 29.APR.2008 23:04:56

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
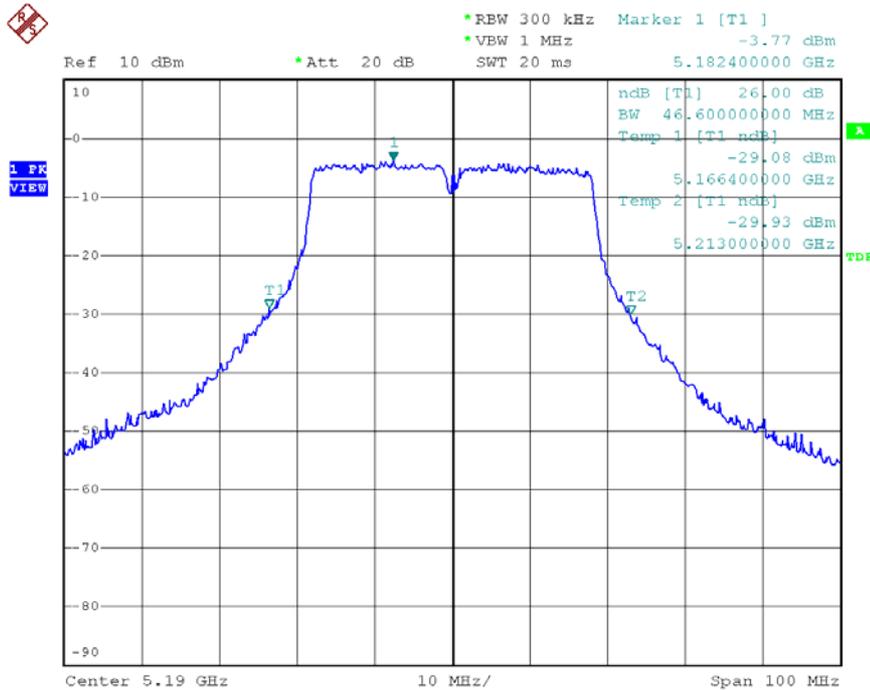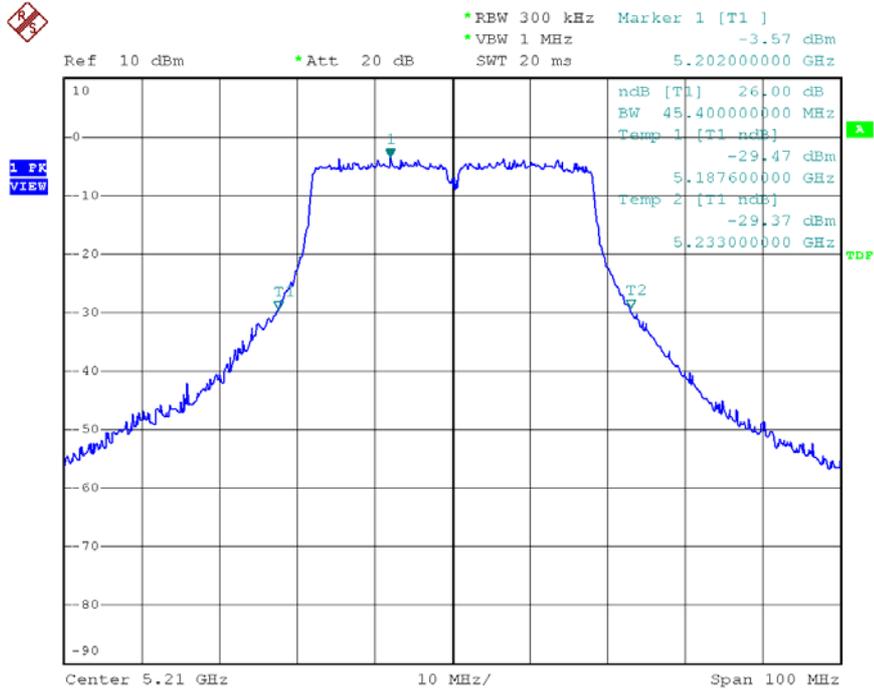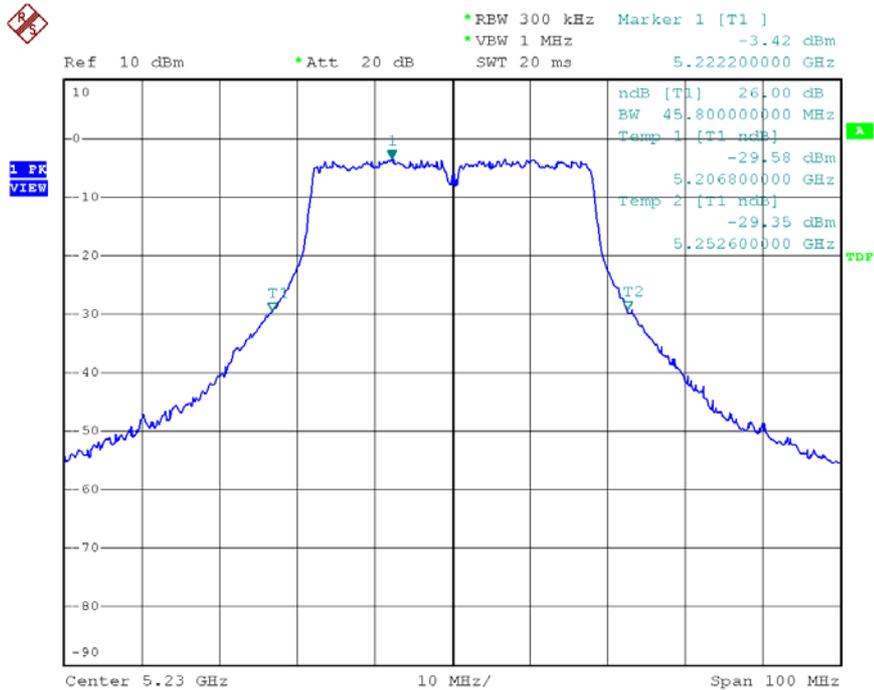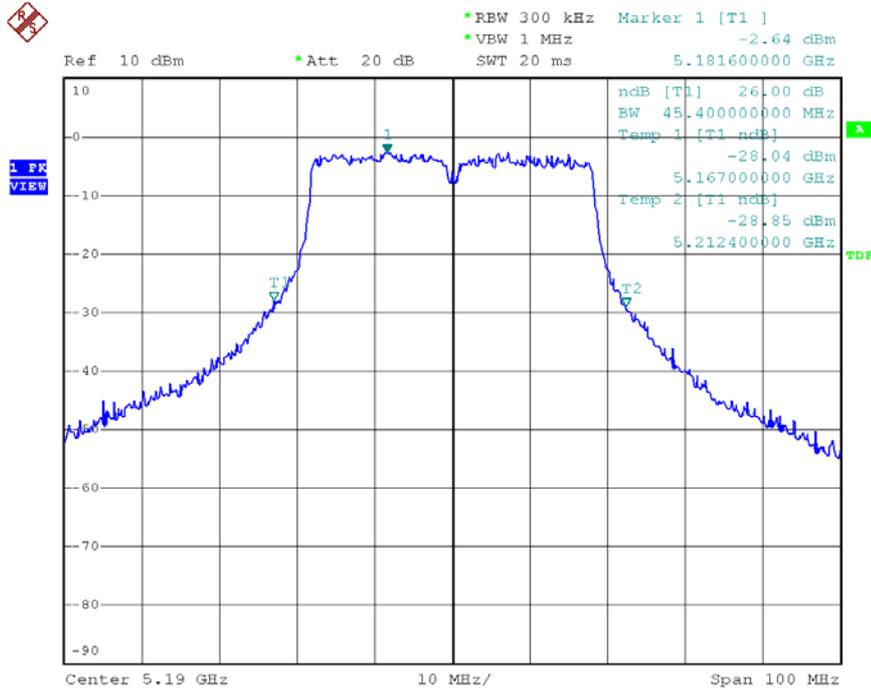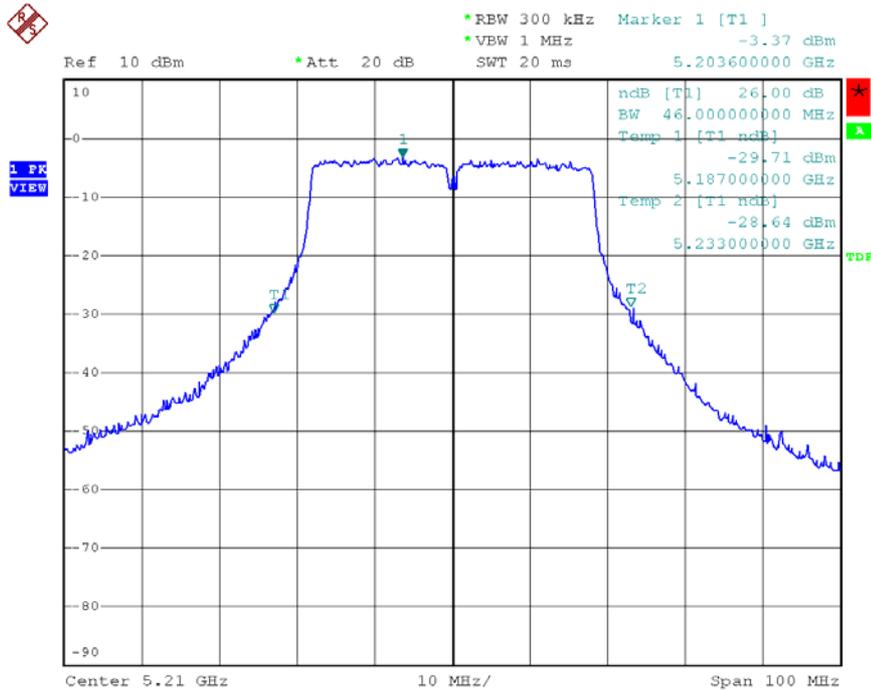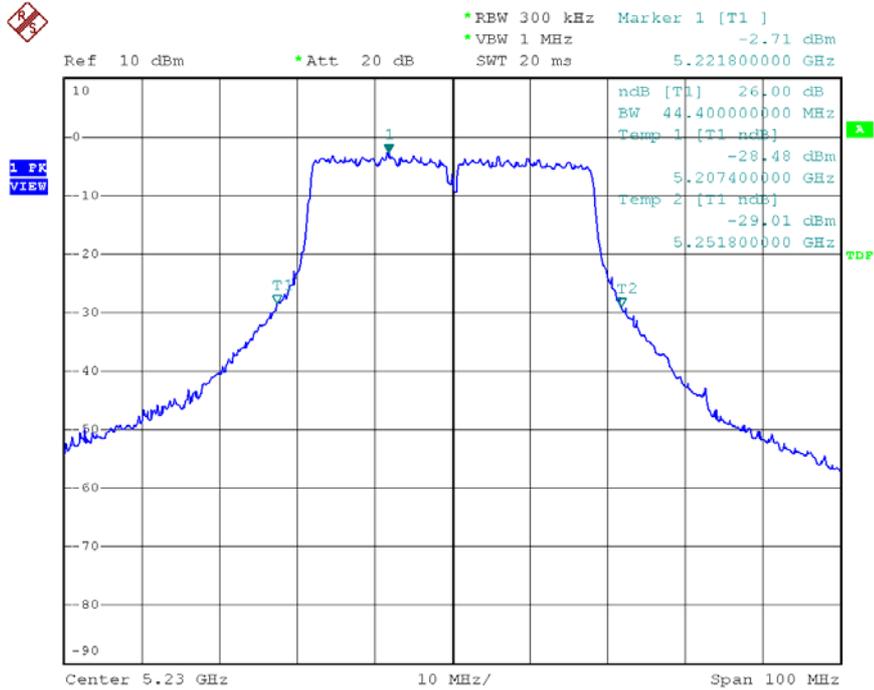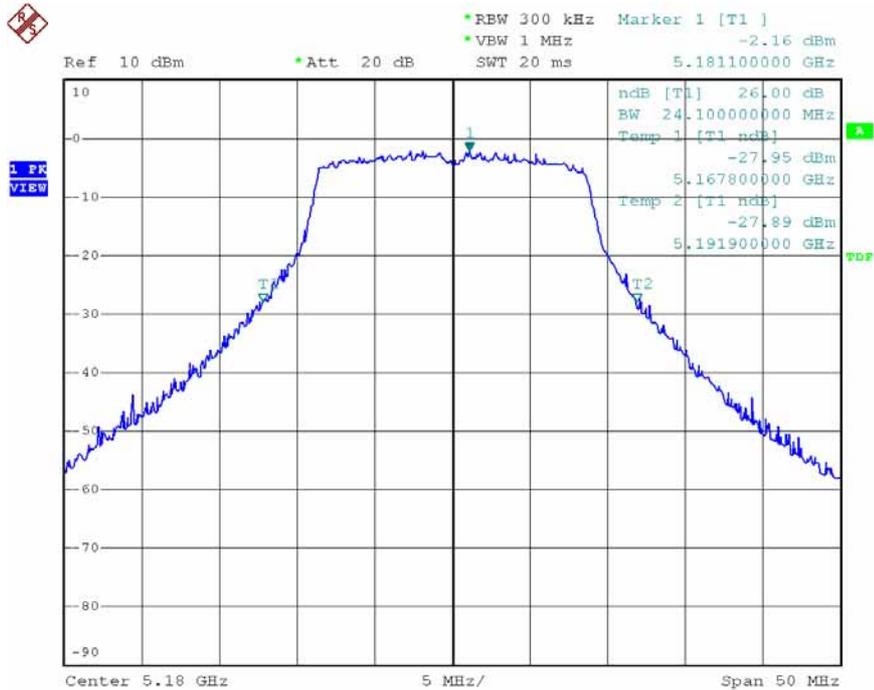Channel: 46
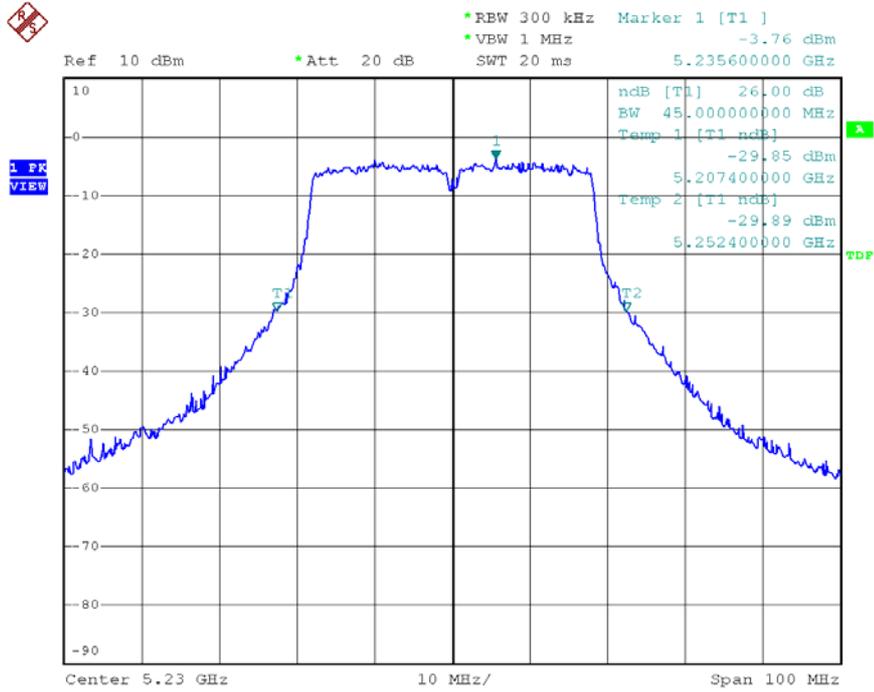
Date: 29.APR.2008   23:25:13

7. Peak Power Excursion

7.1. Test Procedure

1. The transmitter output was connected to the spectrum analyzer
2. Using Peak detector and max-hold function for Trace 1 MHz and VBW to 3 MHz for Trace 1. Using average detector for Trace 2.
3. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 1. Set RBW of spectrum analyzer to 1 MHz and VBW to 300 kHz for Trace 2.
4. The largest difference between Trace 1 and Trace 2 in any 1 MHz band on any frequency was recorded.

7.2. Test Setup Layout

```
+-------+       +------------+
|  EUT  |-------|  Spectrum  |
|       |       |  Analyzer  |
+-------+       +------------+
```
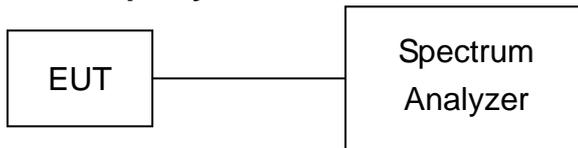
7.3. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

7.4. Test Result and Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion (dB)
36	5180	11.61
44	5220	11.30
48	5240	11.39

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-M

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion (dB)
36	5180	12.39
44	5220	11.80
48	5240	11.95

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-R

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion (dB)
36	5180	10.17
44	5220	11.10
48	5240	9.91

Test Mode 2: 802.11n, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion ANT-R (dB)	Peak Power Excursion ANT-L (dB)
36	5180	10.31	12.14
44	5220	11.60	12.92
48	5240	11.18	12.73

Test Mode 3: 802.11n, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion ANT-R (dB)	Peak Power Excursion ANT-L (dB)
38	5190	10.61	10.69
42	5210	10.03	10.19
46	5230	10.30	10.54

Test Mode 4: 802.11n, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-M + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion ANT-R (dB)	Peak Power Excursion ANT-M (dB)	Peak Power Excursion ANT-L (dB)
36	5180	9.74	11.41	10.25
44	5220	9.88	10.75	10.49
48	5240	10.69	11.58	10.74

Test Mode 5: 802.11n, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-M + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Excursion ANT-R (dB)	Peak Power Excursion ANT-M (dB)	Peak Power Excursion ANT-L (dB)
38	5190	11.16	12.30	11.94
42	5210	10.71	12.92	10.99
46	5230	11.20	12.80	12.37

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 36
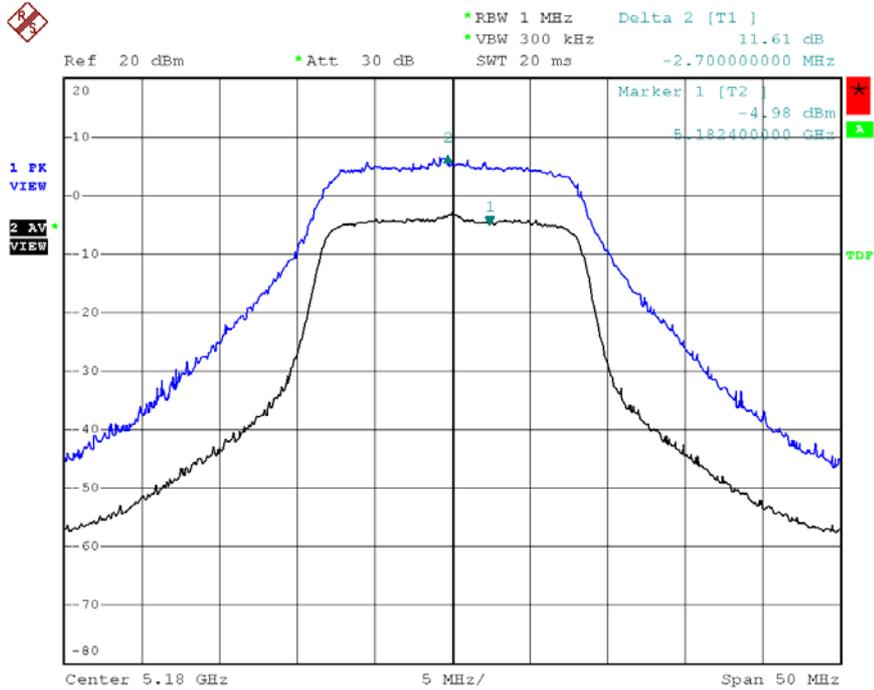
Date: 28.MAR.2008 13:18:27

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 44
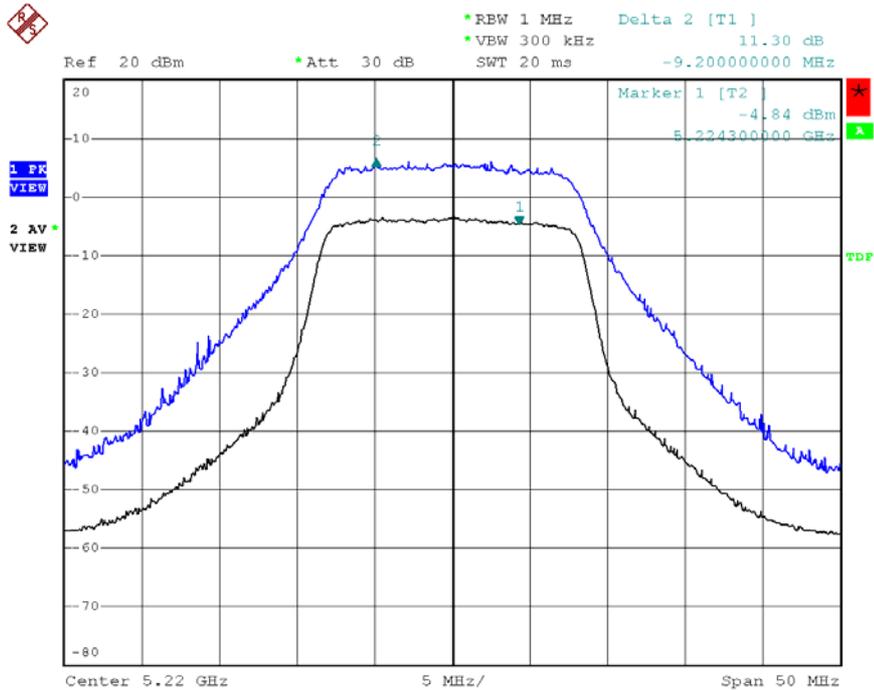
Date: 28.MAR.2008 13:19:52

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 48
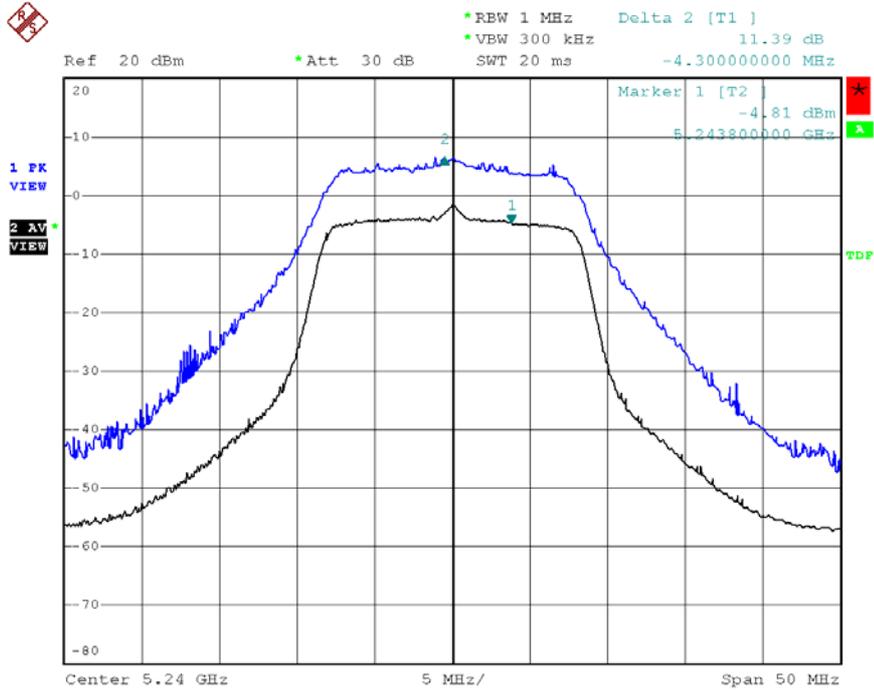

Date: 28.MAR.2008 13:22:17
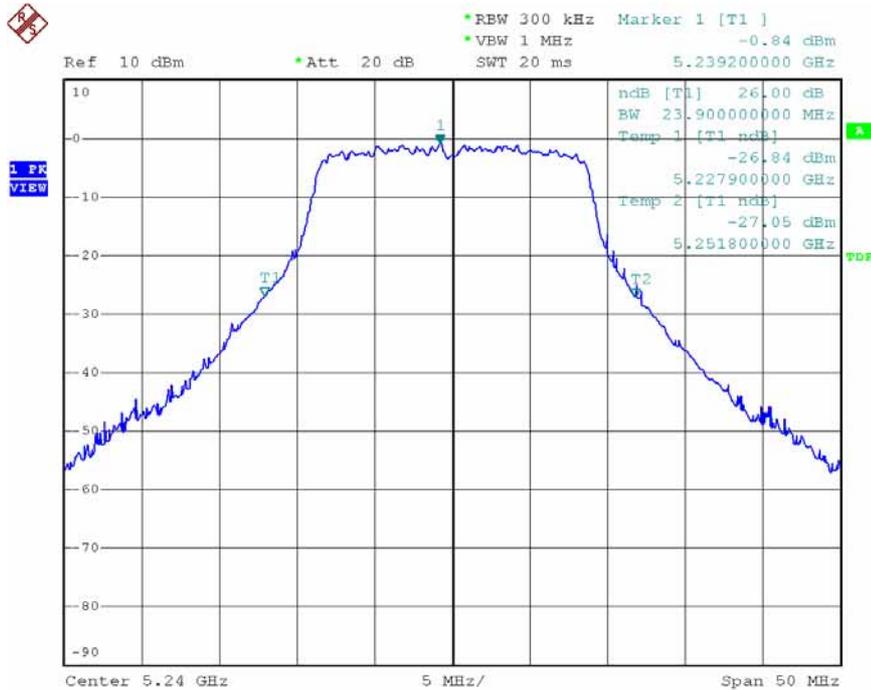
Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 36
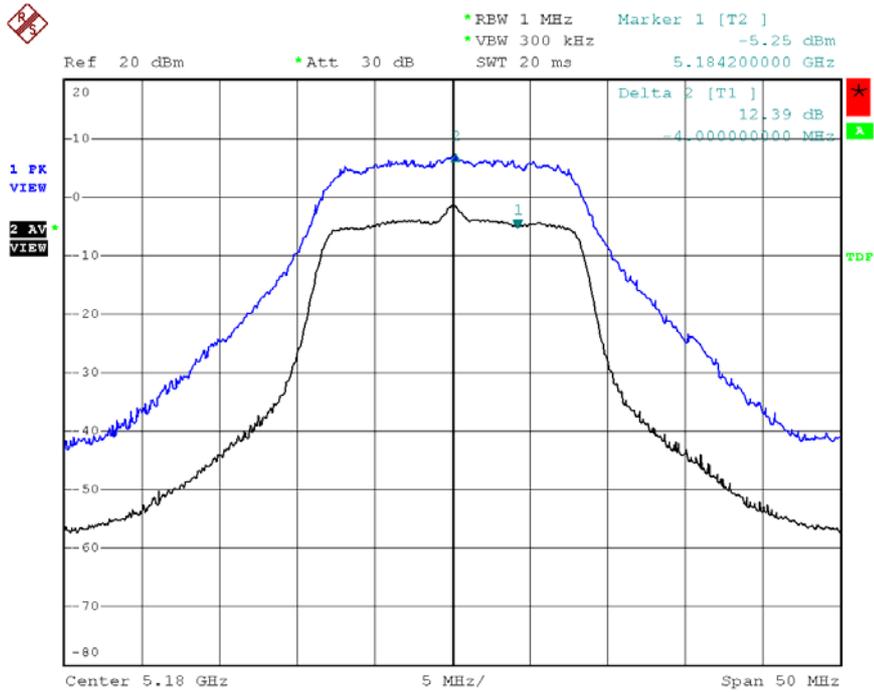
Date: 27.MAR.2008 16:43:55
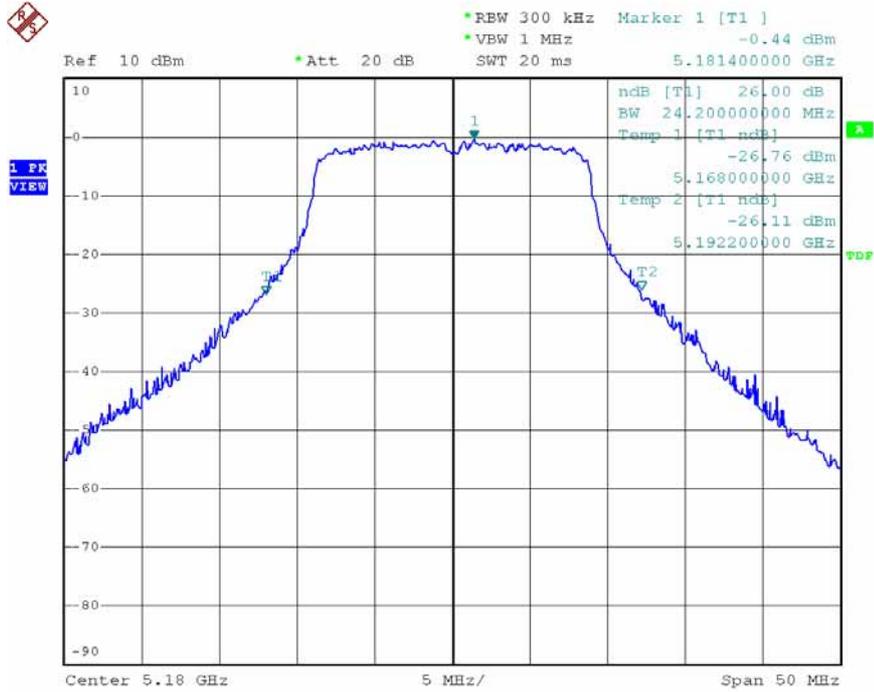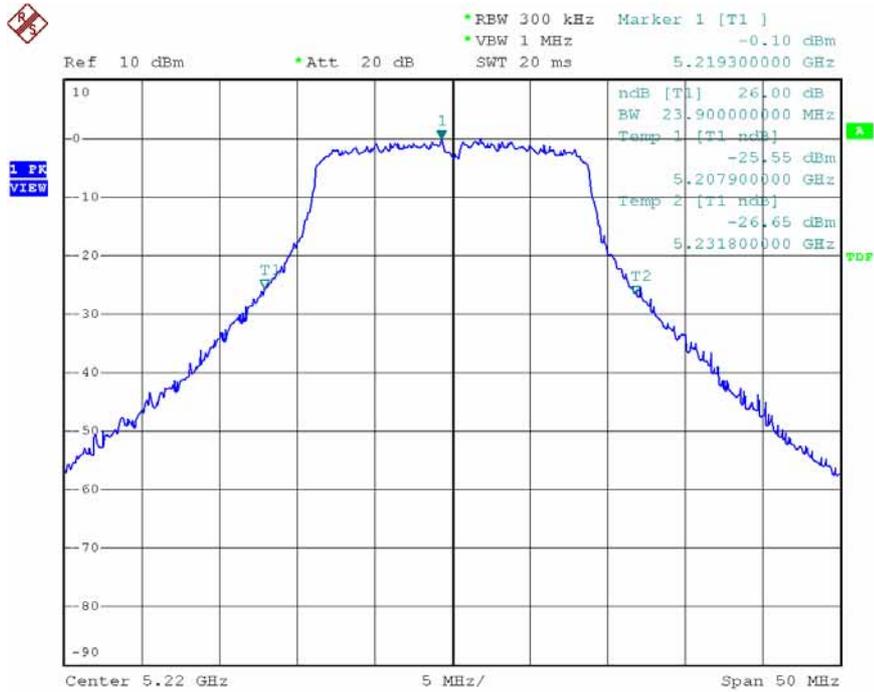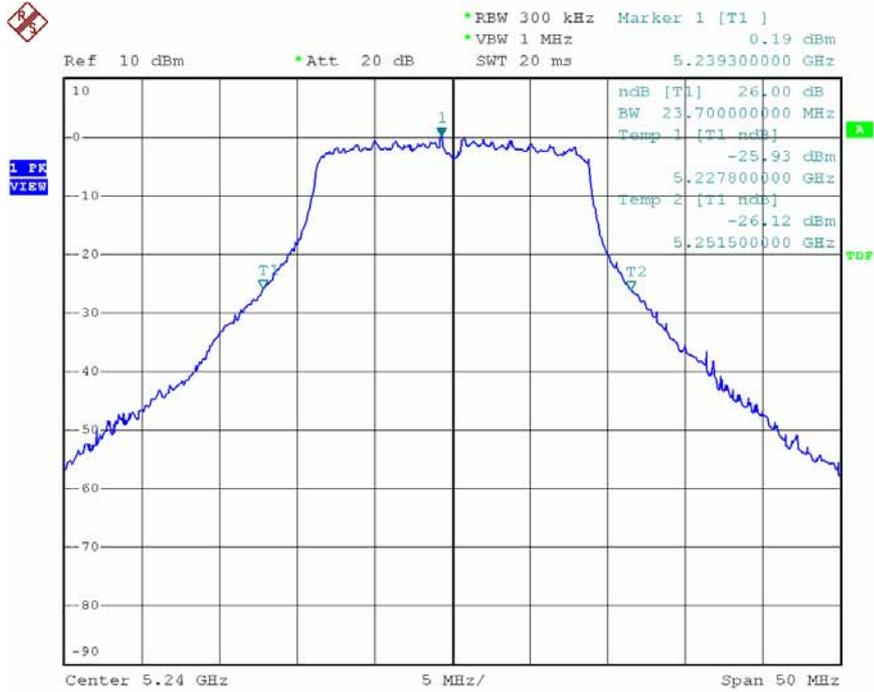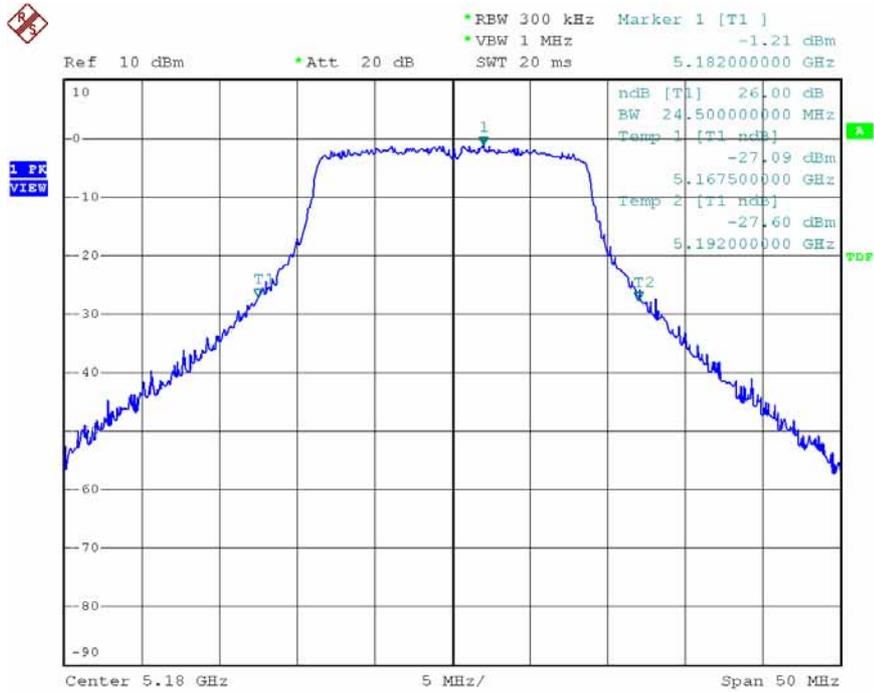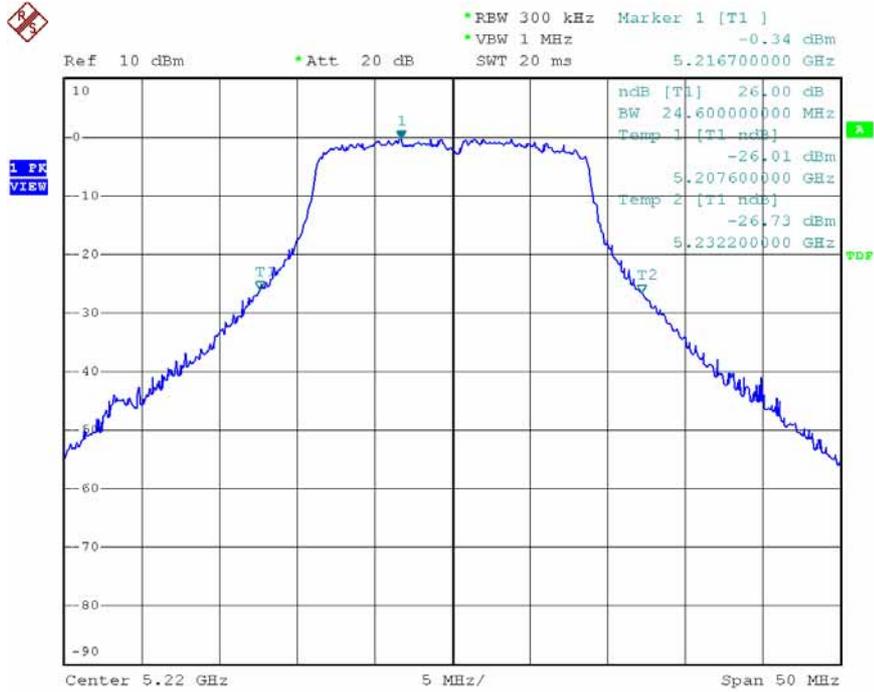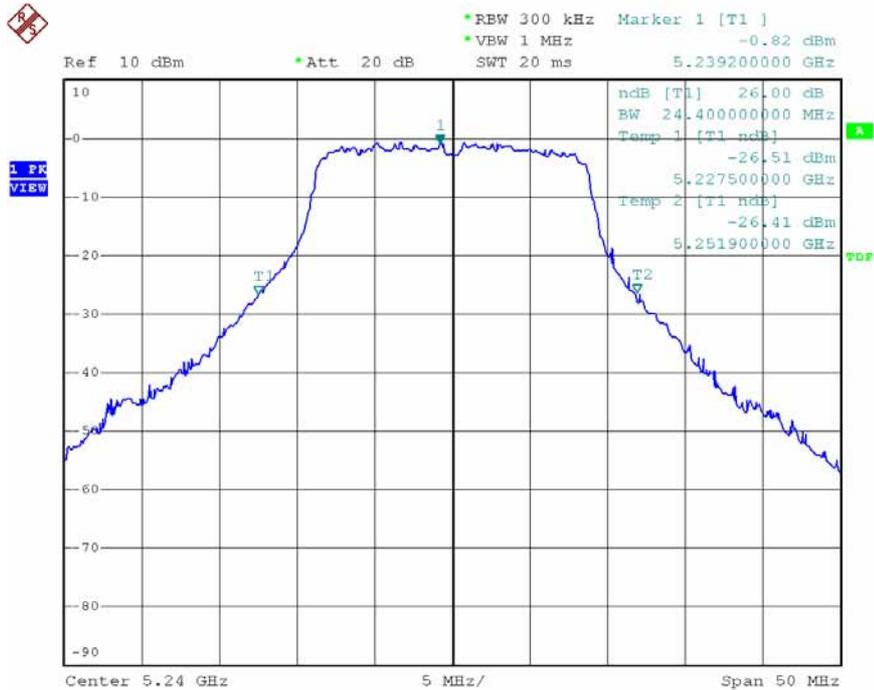
Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 44

Date: 27.MAR.2008 16:40:48

Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 48

Date: 27.MAR.2008 16:37:33

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 36

Date: 27.MAR.2008 13:49:04

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 44

Date: 27.MAR.2008 13:45:09

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 48

Date: 27.MAR.2008   13:41:38

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36

Date: 1.MAY.2008   18:20:01

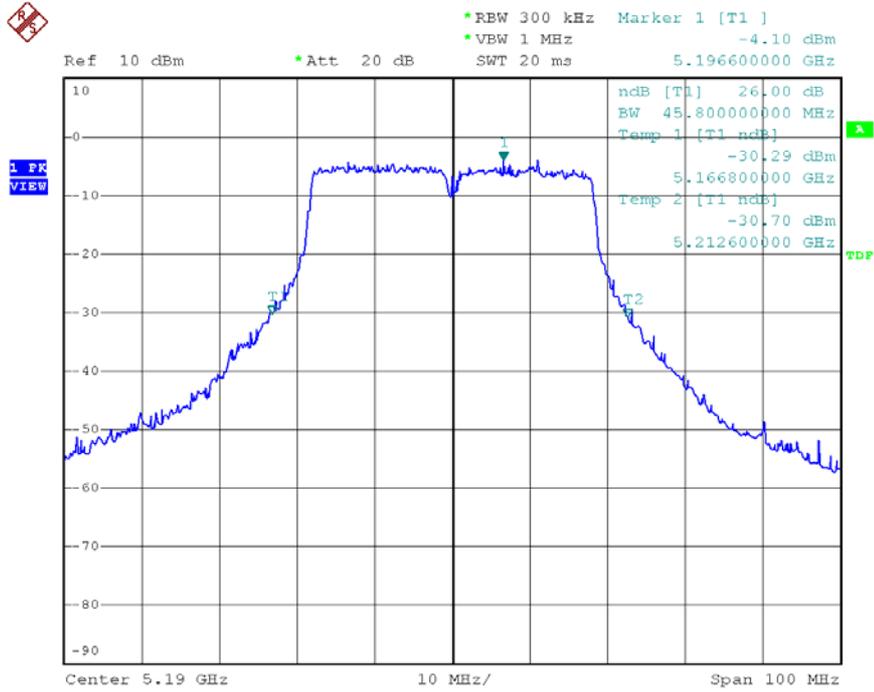Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44

Date: 1.MAY.2008 18:22:01

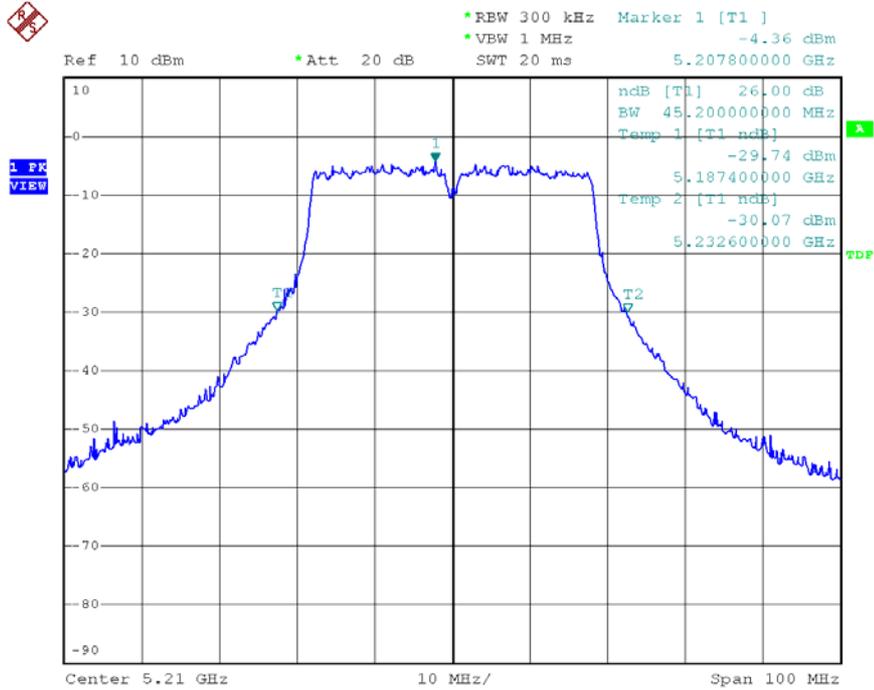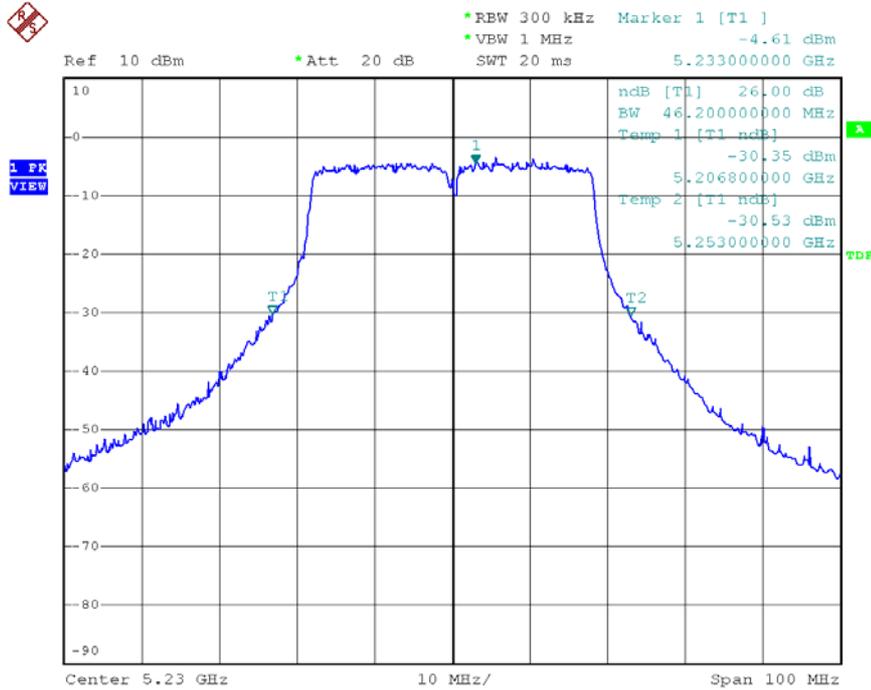Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48

Date: 1.MAY.2008 18:25:30

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36

Date: 1.MAY.2008 18:18:50

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44

Date: 1.MAY.2008 18:23:02

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 48

Date: 1.MAY.2008 18:24:19

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38

Date: 1.MAY.2008 18:39:07

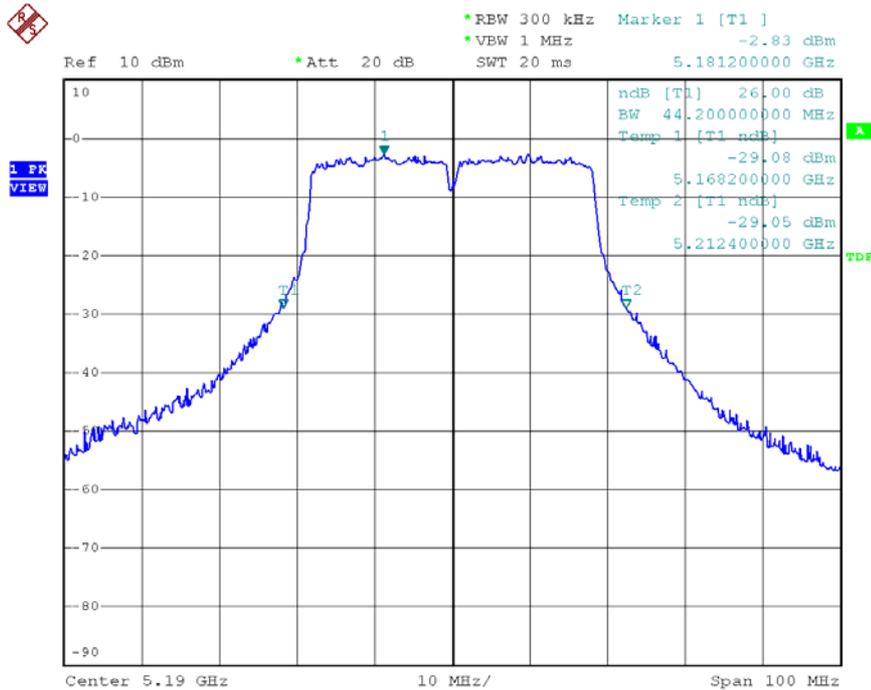Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 42

Date: 1.MAY.2008 18:44:01

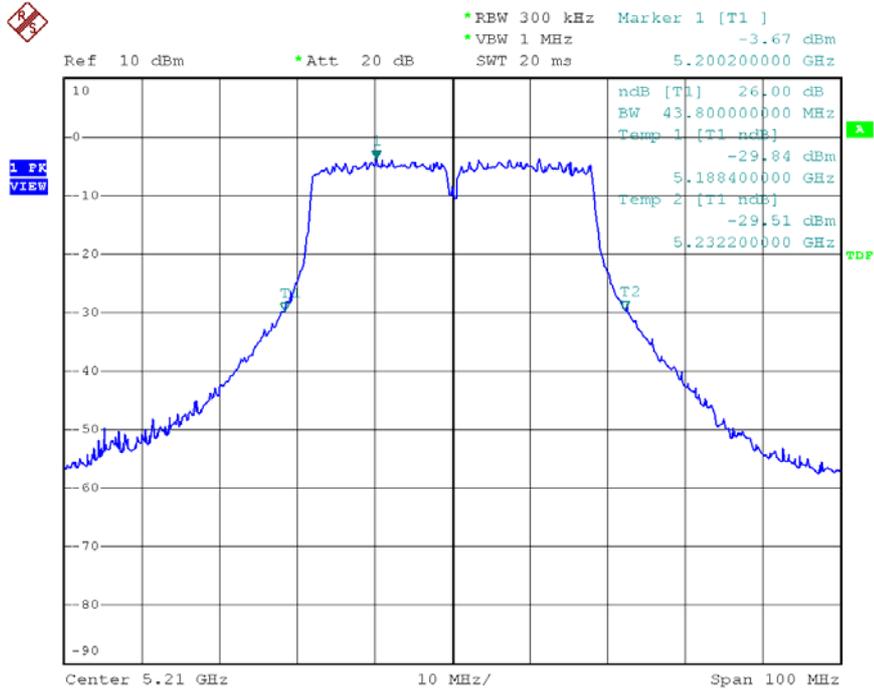Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 46

Date: 1.MAY.2008 18:45:13

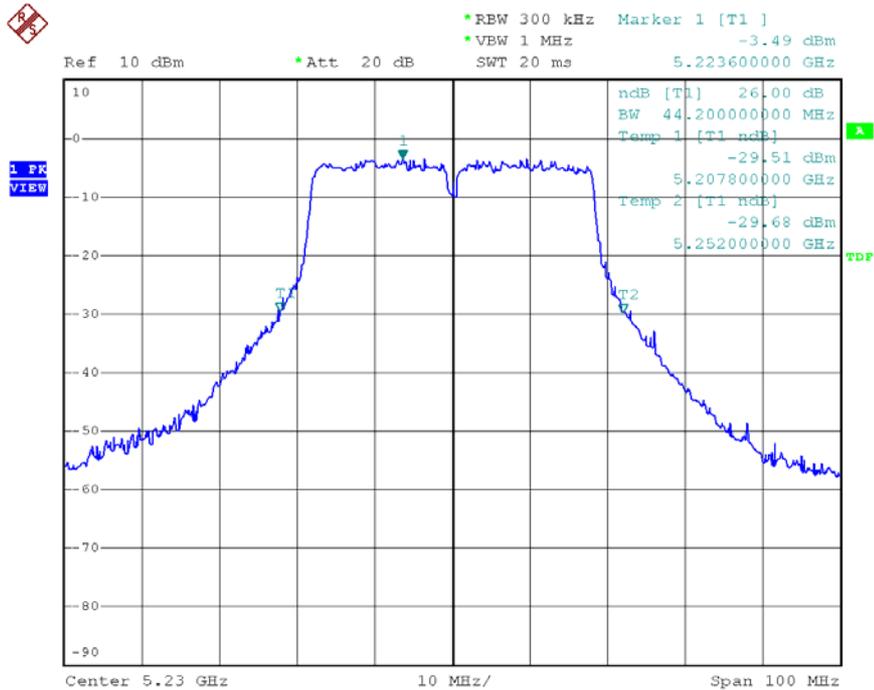Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 38

Date: 1.MAY.2008 18:40:05

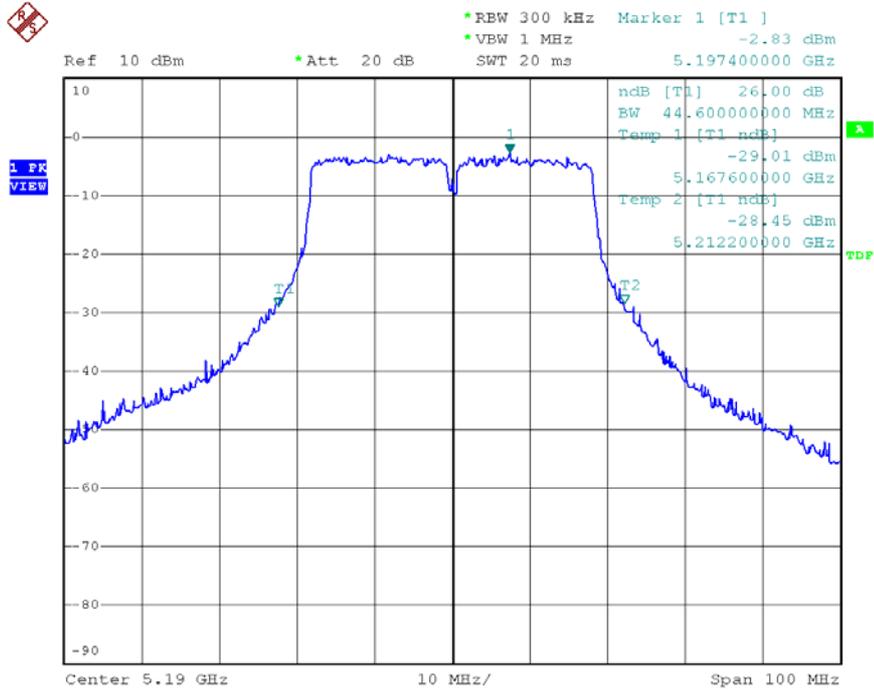Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42

Date: 1.MAY.2008 18:42:23

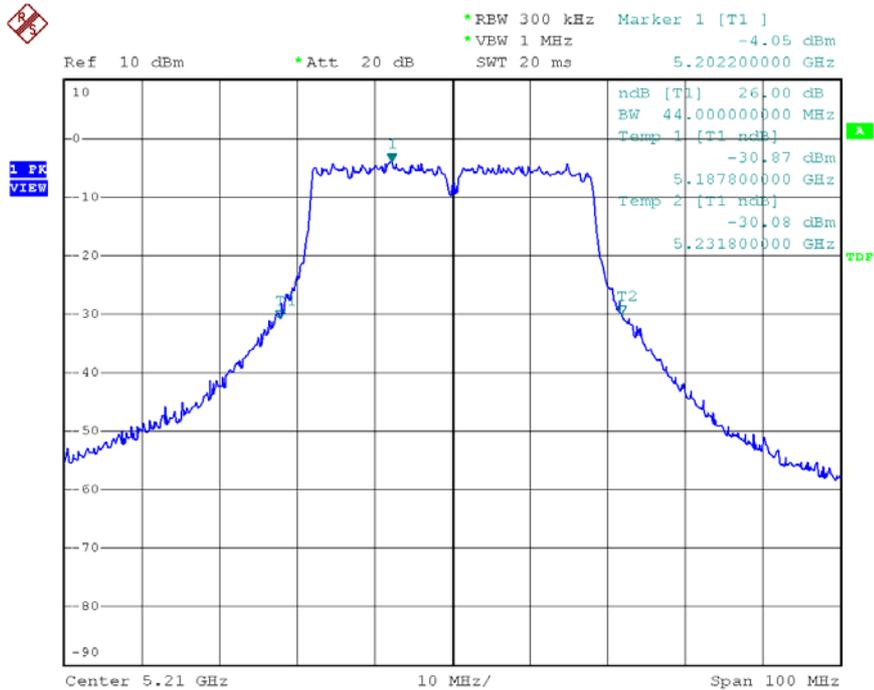Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 46

Date: 1.MAY.2008   18:46:10

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36

Date: 1.MAY.2008   19:09:13

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44

Date: 1.MAY.2008 19:10:20

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48

Date: 1.MAY.2008 19:16:34

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 36

Date: 1.MAY.2008 19:07:57

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 44

Date: 1.MAY.2008 19:11:29

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 48

Date: 1.MAY.2008 19:15:33

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36

Date: 1.MAY.2008 19:06:31

FCC Test Report: FE08011708-A

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44

Date: 1.MAY.2008 19:12:26

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 48

Date: 1.MAY.2008 19:14:26

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38

Date: 1.MAY.2008   19:43:14

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 42

Date: 1.MAY.2008   19:41:57

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 46

Date: 1.MAY.2008   19:31:25

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 38

Date: 1.MAY.2008   19:44:44

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 42

Date: 1.MAY.2008 19:41:06

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 46

Date: 1.MAY.2008 19:33:40

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 38
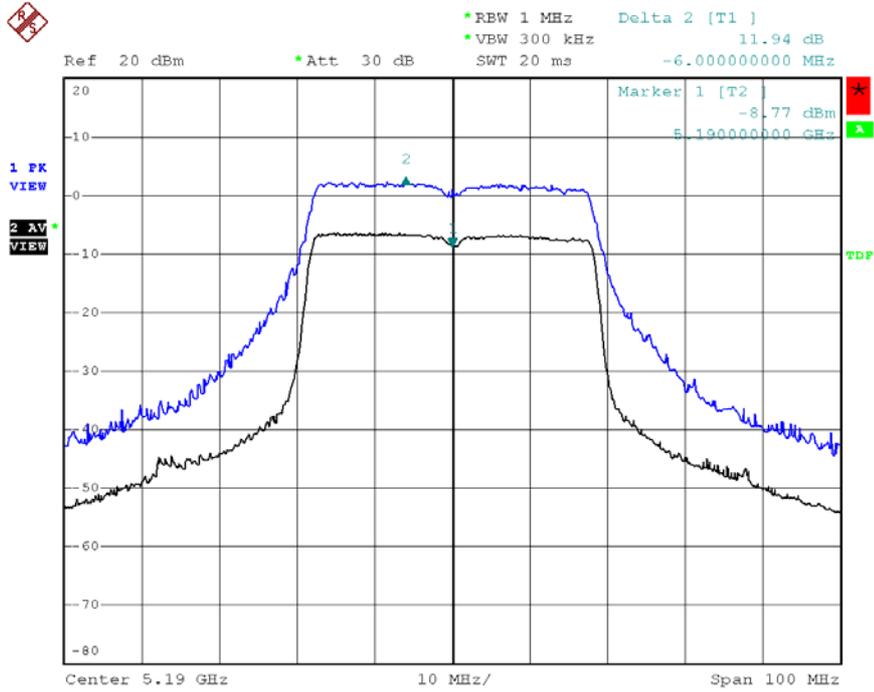
Date: 1.MAY.2008   19:45:39

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42
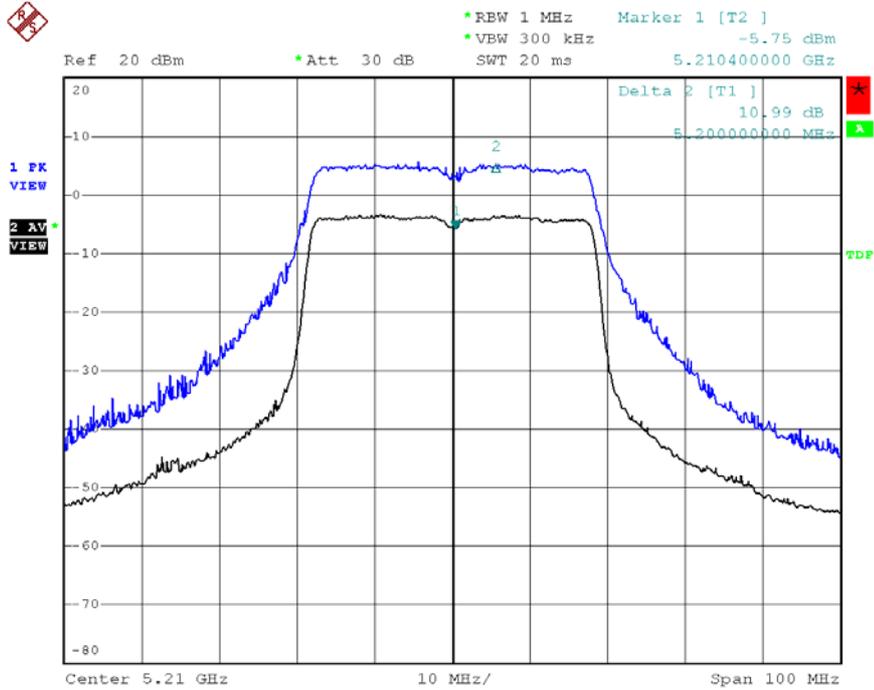
Date: 1.MAY.2008   19:39:35

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 46
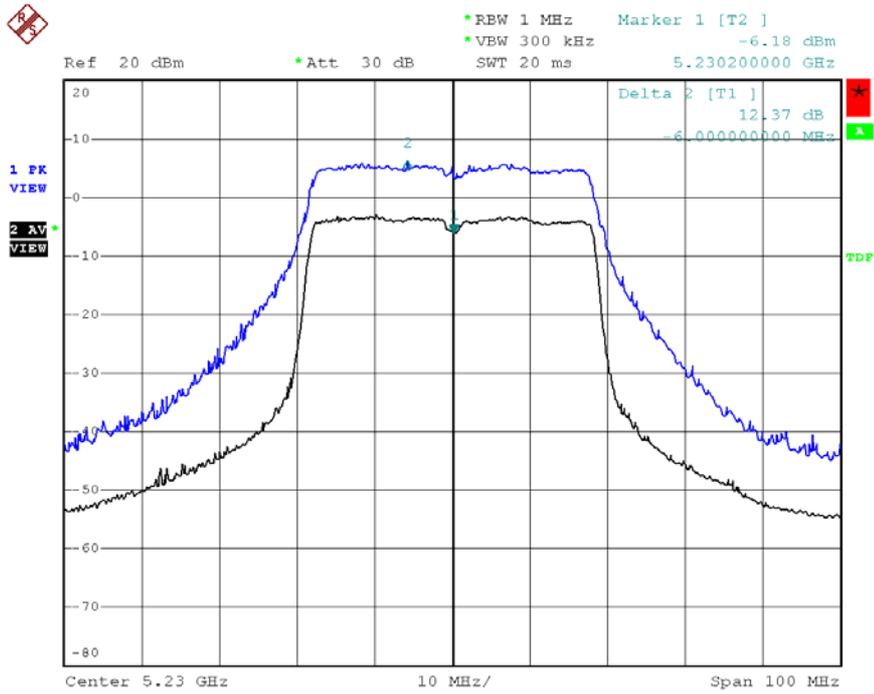
Date: 1.MAY.2008   19:35:15

8. Peak Power Spectral Density

8.1. Test Procedure

1. The transmitter output was connected to spectrum analyzer.

2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz

3. The Peak Power Spectral Density is the highest level found across the emission in any 1MHz Band

8.2. Test Setup Layout

```
┌─────────┐       ┌──────────────┐
│   EUT   │───────│   Spectrum   │
│         │       │   Analyzer   │
└─────────┘       └──────────────┘
```
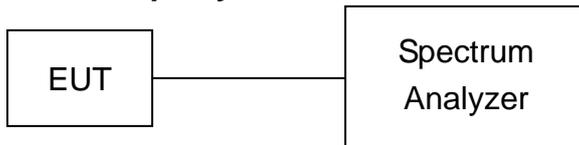
8.3. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21

8.4. Test Result and Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW (dBm)
36	5180	-5.42
44	5220	-5.35
48	5240	-3.48

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW (dBm)
36	5180	-4.55
44	5220	-5.23
48	5240	-4.56

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW (dBm)
36	5180	-4.06
44	5220	-2.91
48	5240	-3.70

Test Mode 2: 802.11n, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

| Channel	Frequency (MHz)	RF Power Level In 1MHz BW ANT-R (dBm)	RF Power Level In 1MHz BW ANT-L (dBm)	RF Power Level In 1MHz BW Total (dBm)
36	5180	-6.70	-5.86	-3.25
44	5220	-6.85	-4.95	-2.79
48	5240	-5.92	-5.93	-2.91

Test Mode 3: 802.11n, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW ANT-R (dBm)	RF Power Level In 1MHz BW ANT-L (dBm)	RF Power Level In 1MHz BW Total (dBm)
38	5190	-3.36	-2.04	0.36
42	5210	-3.31	-3.15	-0.22
46	5230	-3.54	-3.20	-0.36

Test Mode 4: 802.11n, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-M + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW ANT-R (dBm)	RF Power Level In 1MHz BW ANT-M (dBm)	RF Power Level In 1MHz BW ANT-L (dBm	RF Power Level In 1MHz BW Total (dBm)
36	5180	-5.68	-3.20	-3.02	0.96
44	5220	-3.92	-2.63	-3.12	1.58
48	5240	-5.73	-2.98	-3.30	0.93

Test Mode 5: 802.11n, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-M + ANT-L
Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	RF Power Level In 1MHz BW ANT-R (dBm)	RF Power Level In 1MHz BW ANT-M (dBm)	RF Power Level In 1MHz BW ANT-L (dBm	RF Power Level In 1MHz BW Total (dBm)
38	5190	-10.57	-6.03	-7.51	-2.89
42	5210	-10.35	-7.83	-9.21	-4.24
46	5230	-5.88	-5.53	-6.76	-1.26

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 36
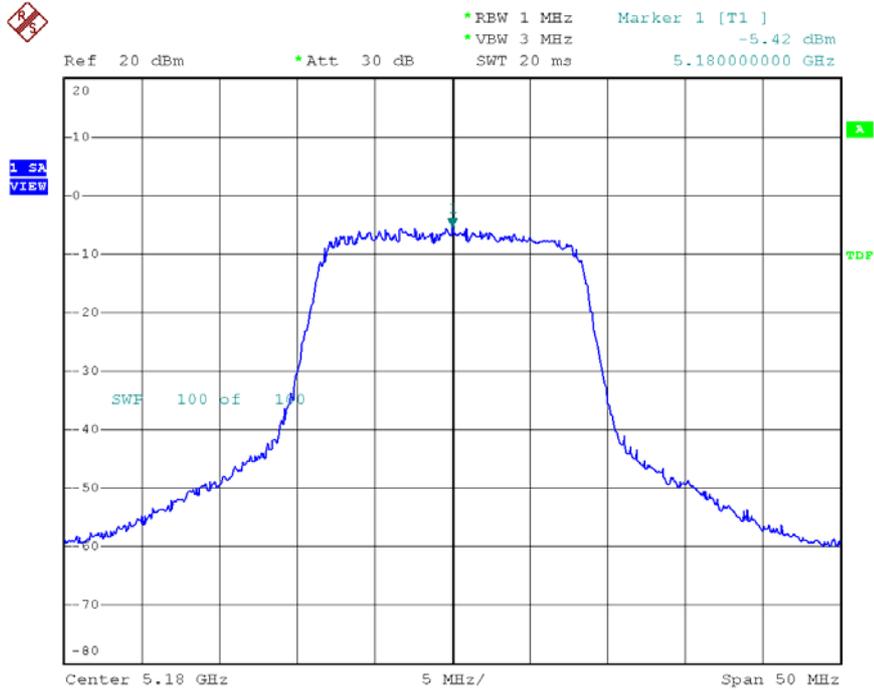
Date: 28.MAR.2008 13:25:05

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 44
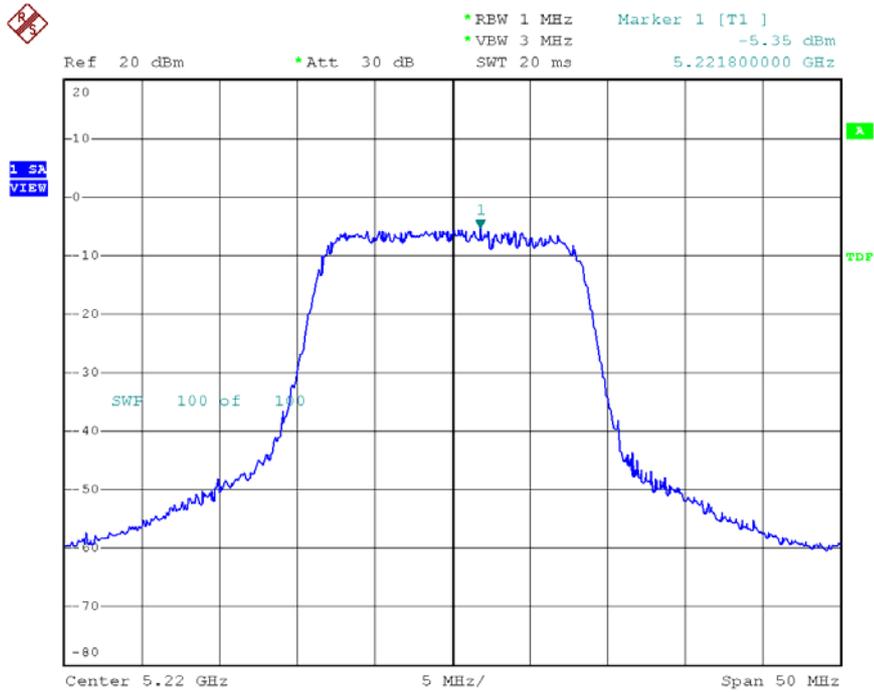
Date: 28.MAR.2008 13:25:40

Modulation Standard: 802.11a (6Mbps) – ANT-L
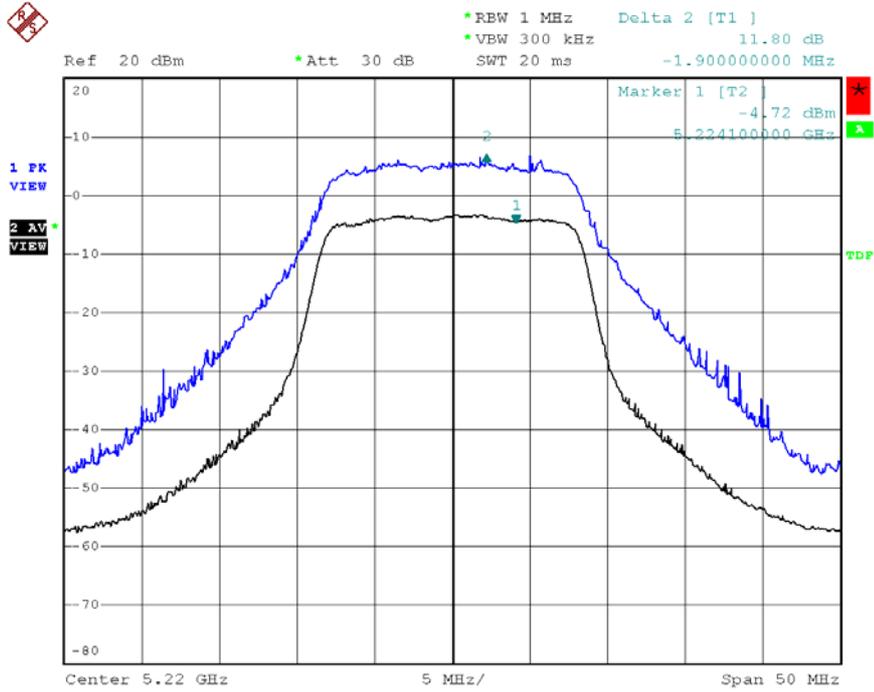Channel: 48
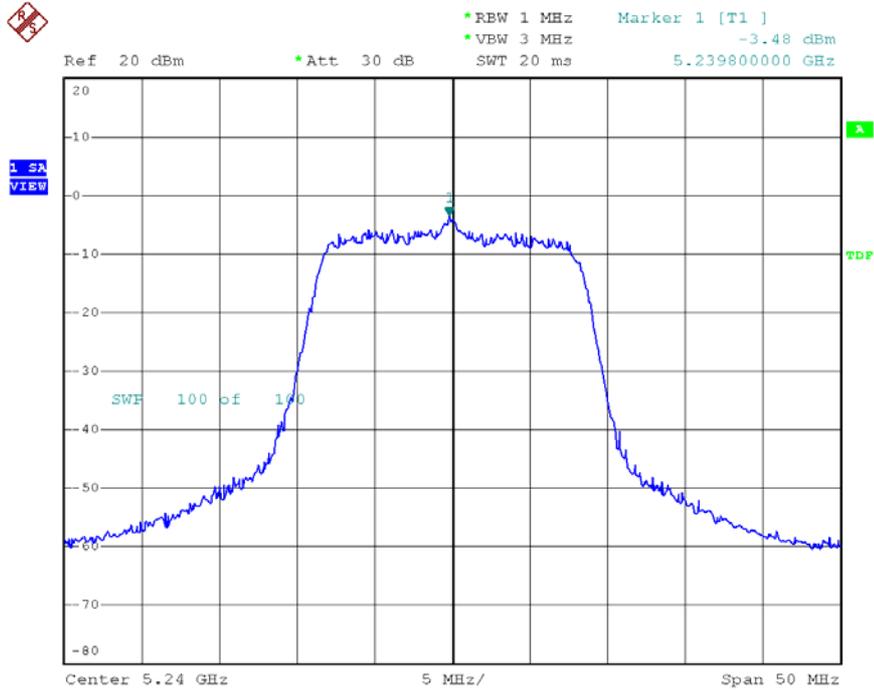
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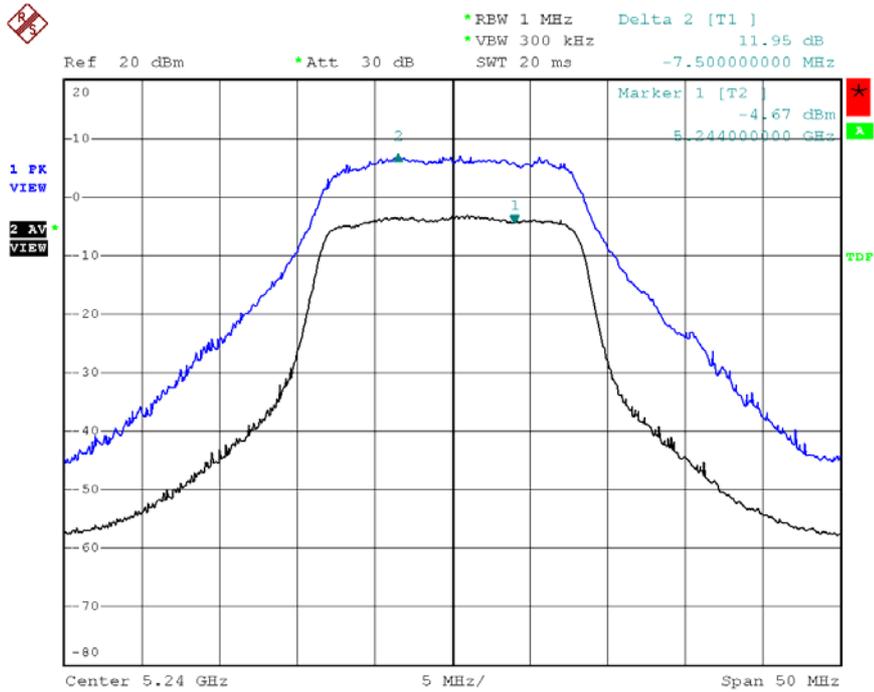Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 36
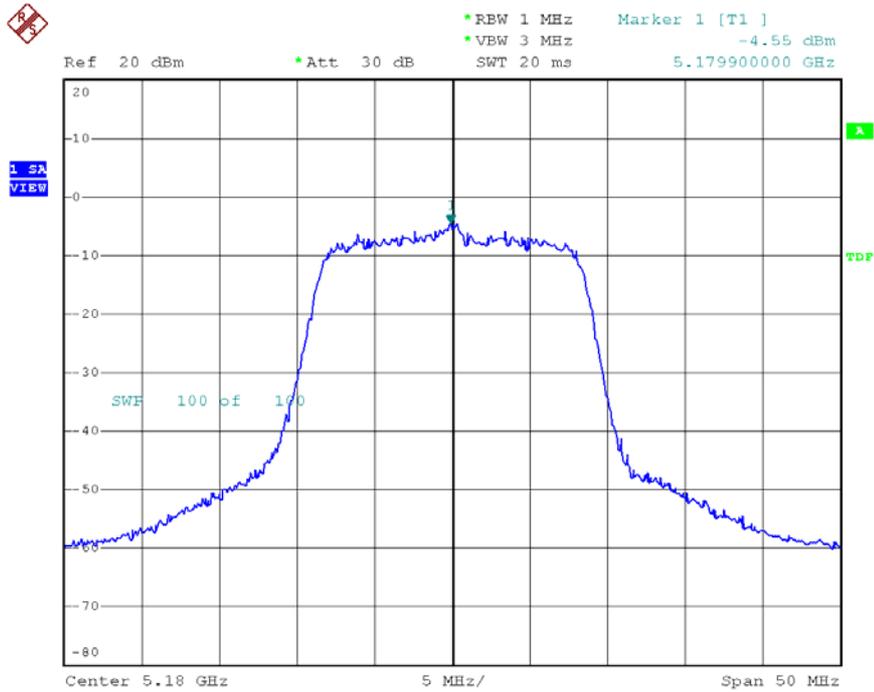
Date: 27.MAR.2008 16:45:35

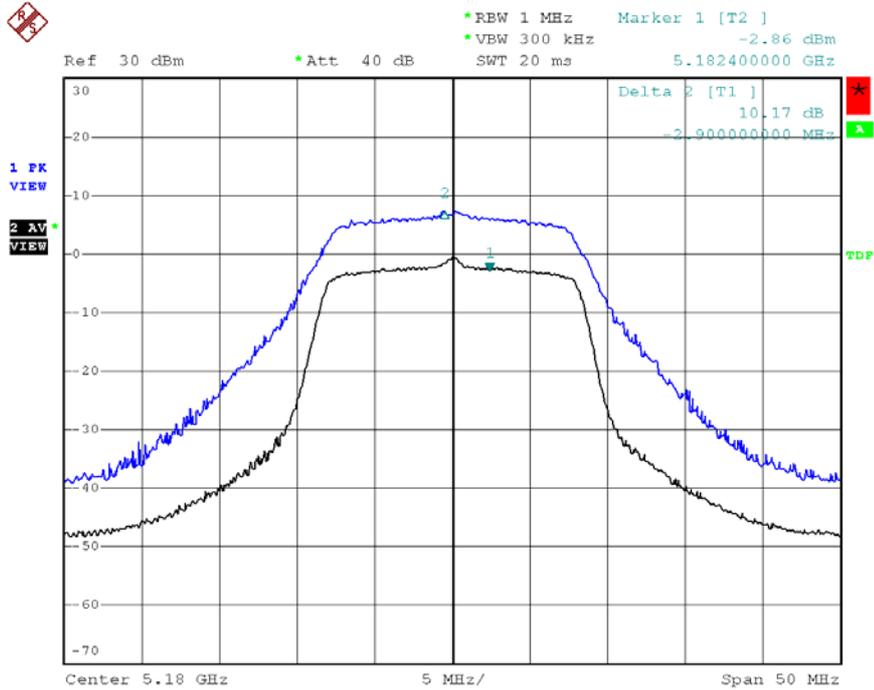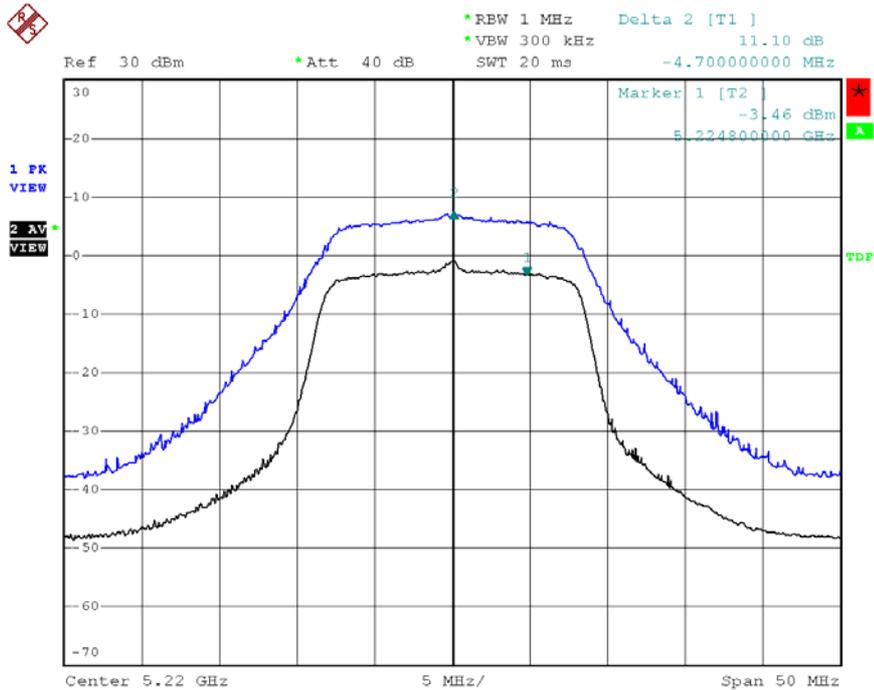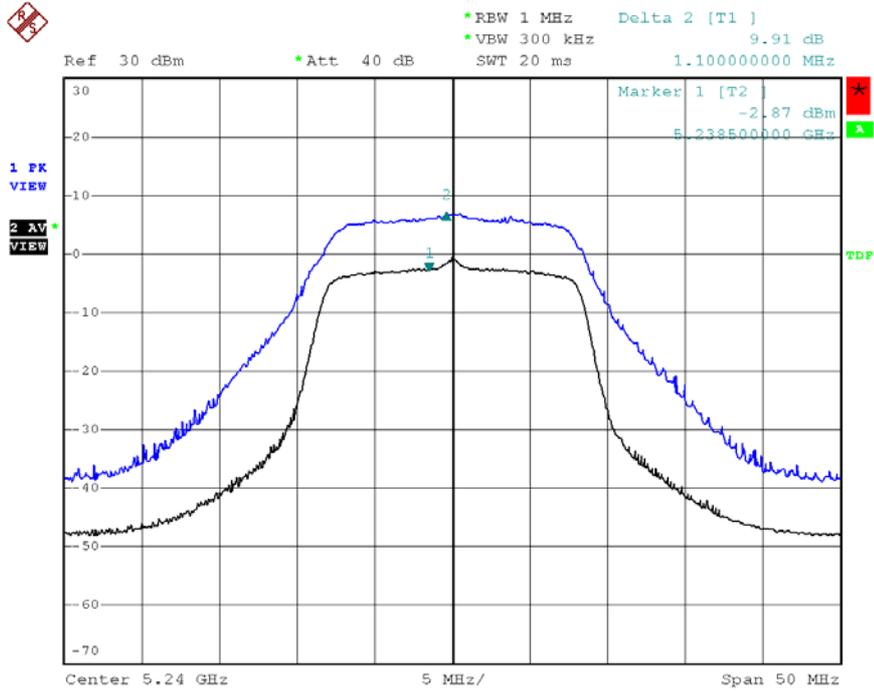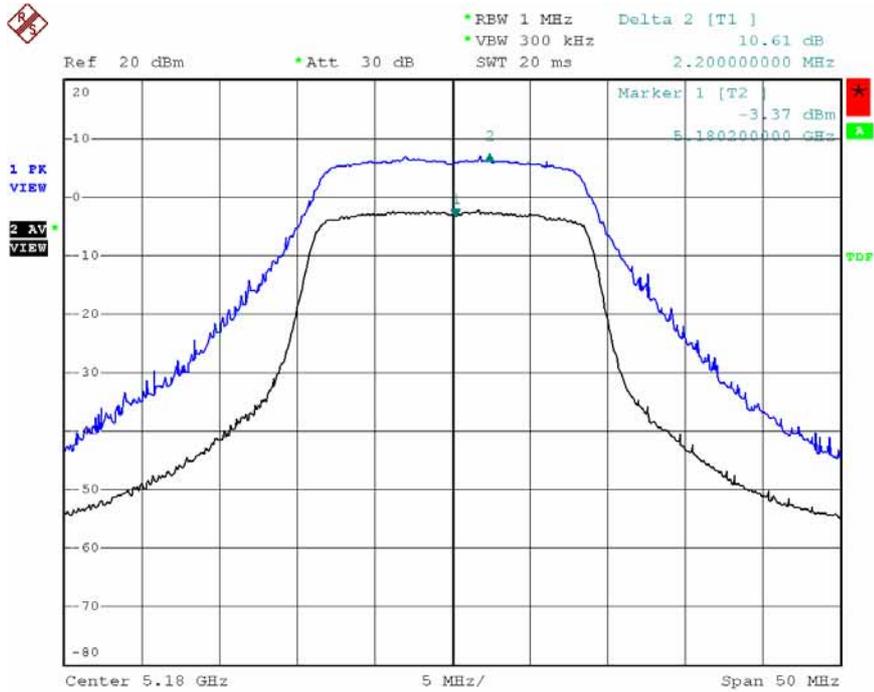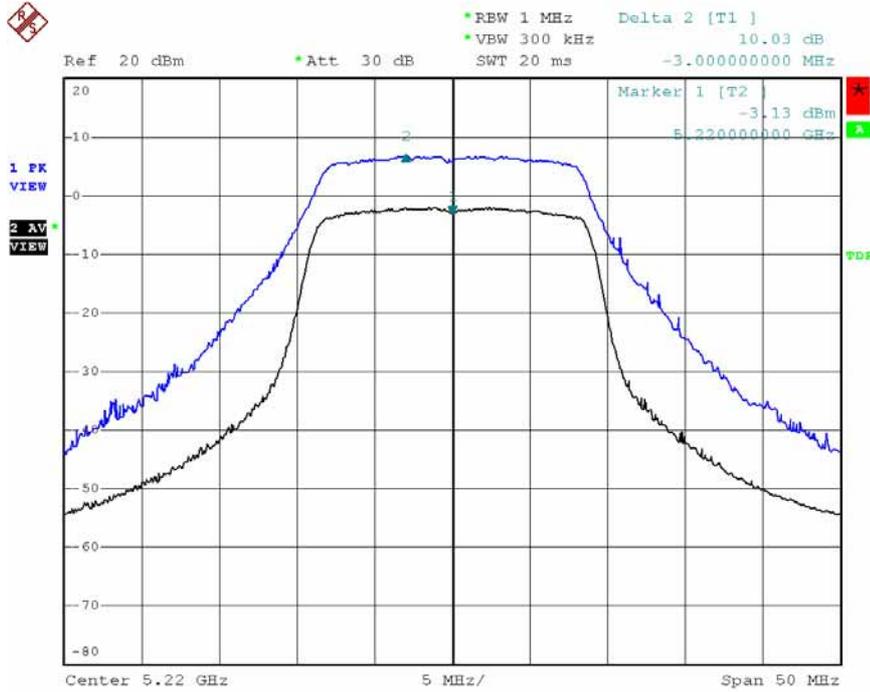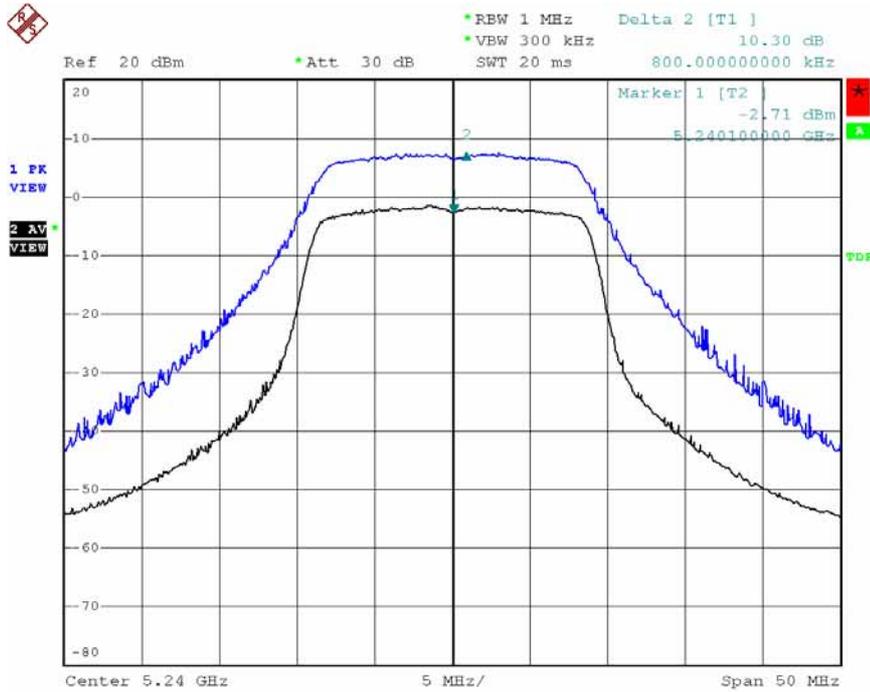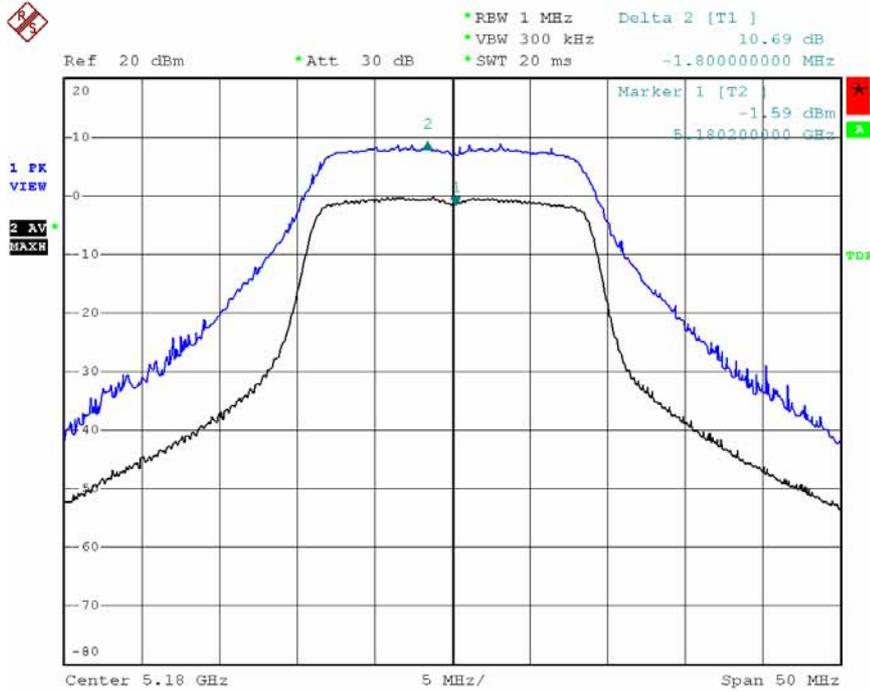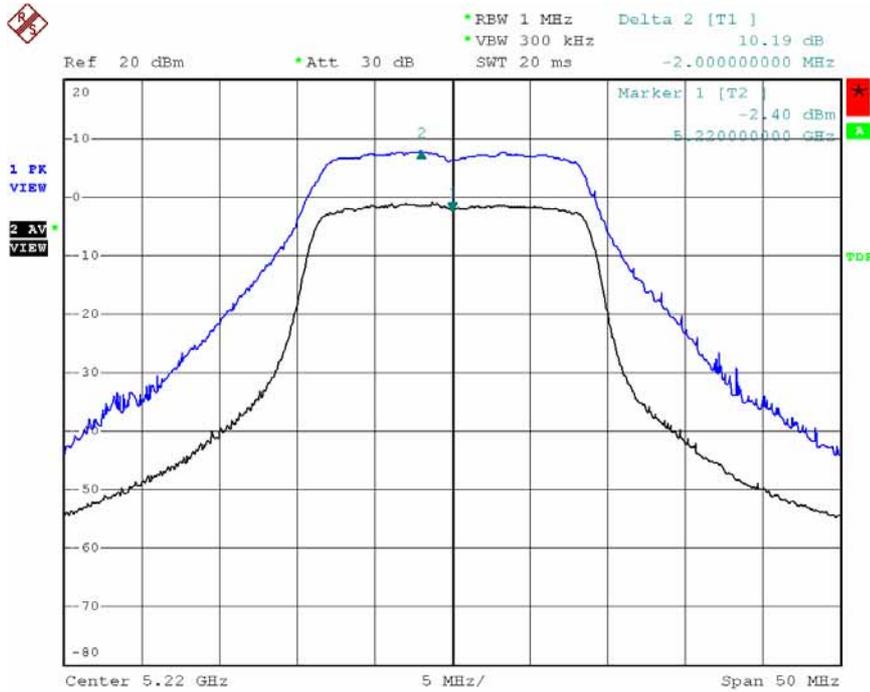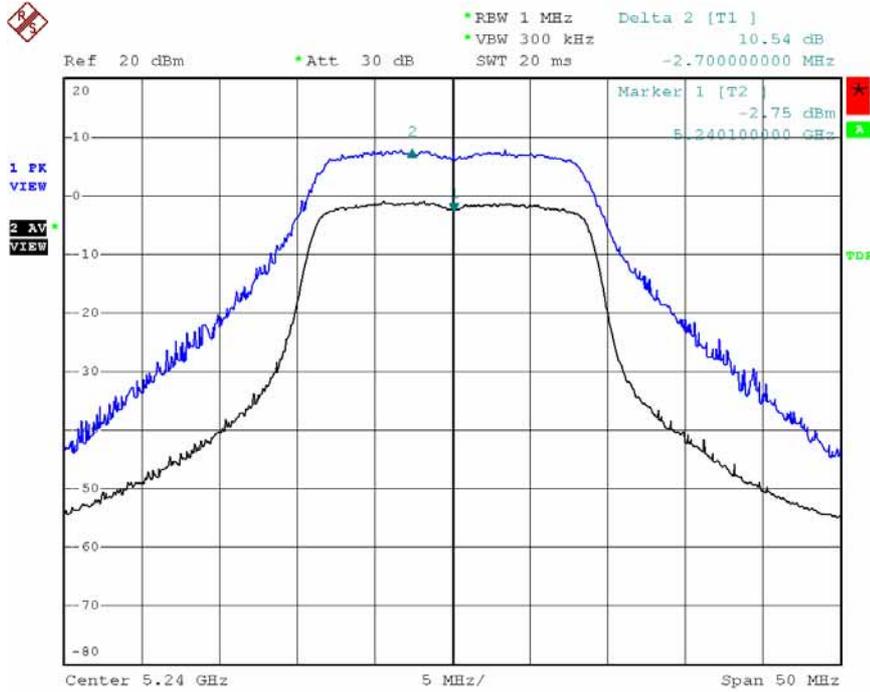Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 44
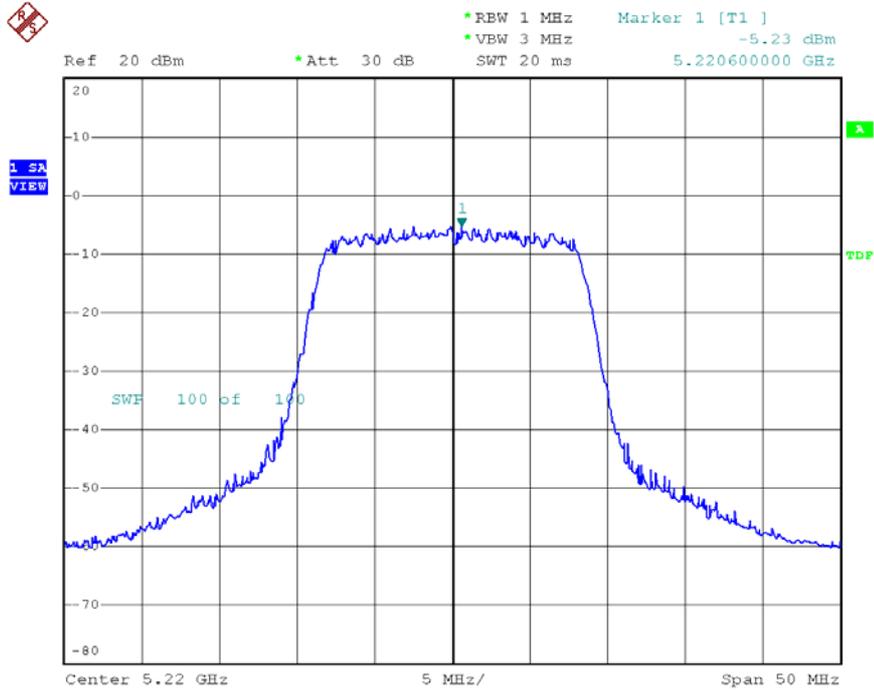
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Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 48
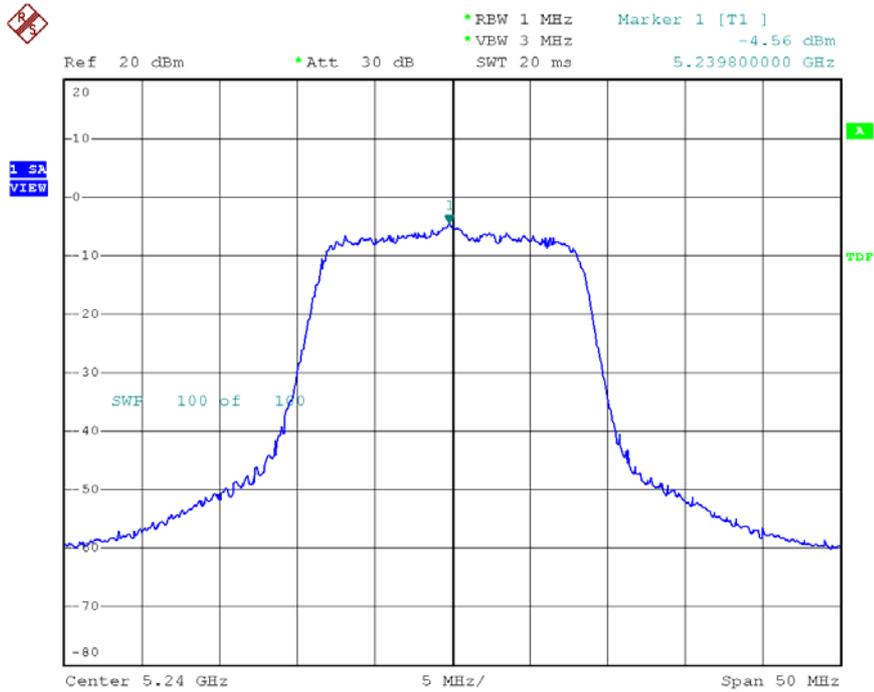
Date: 27.MAR.2008 16:48:26

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 36
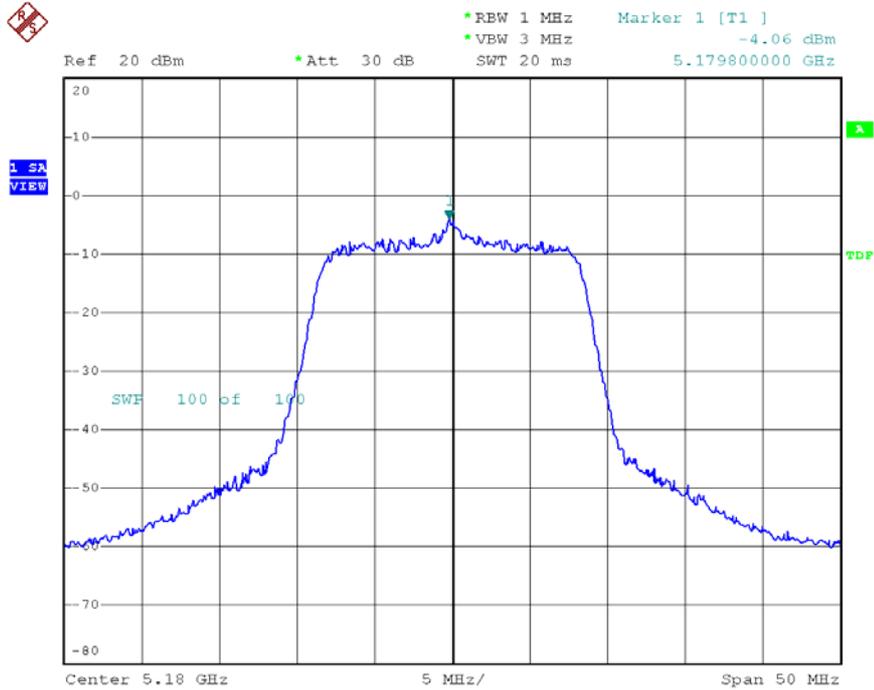
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Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 44
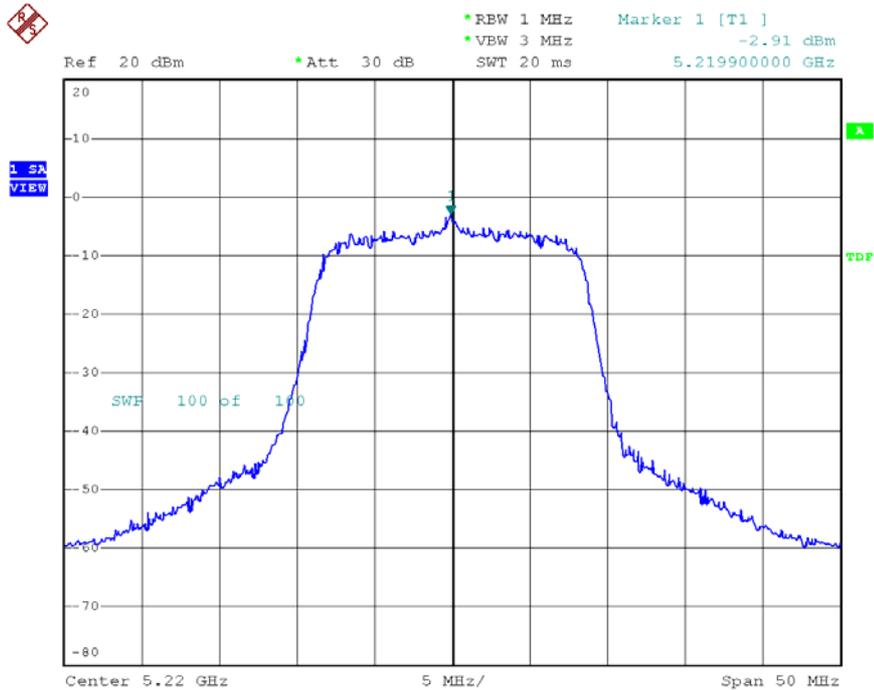
Date: 27.MAR.2008 16:46:40

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 48
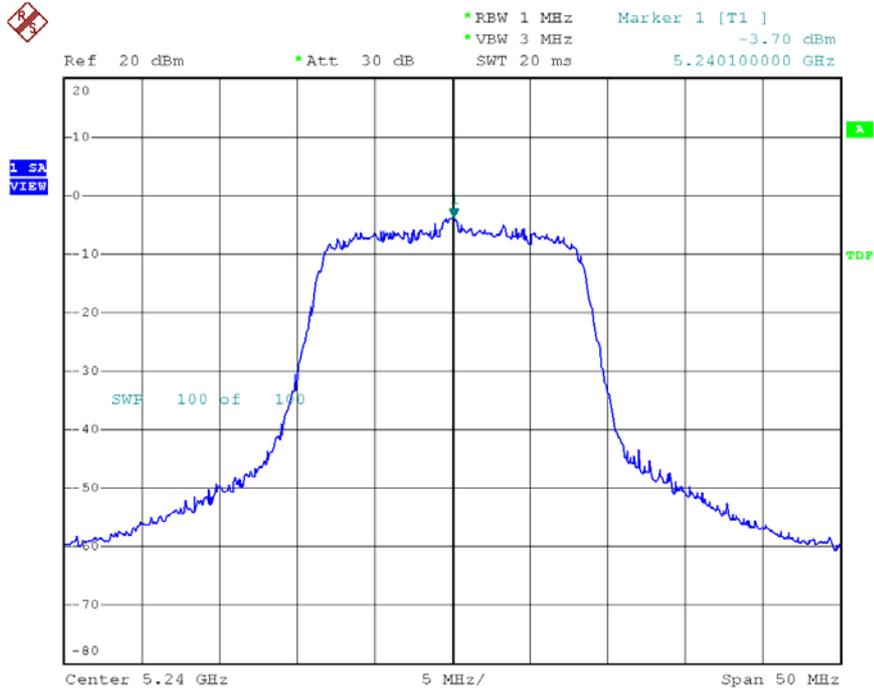
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Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36
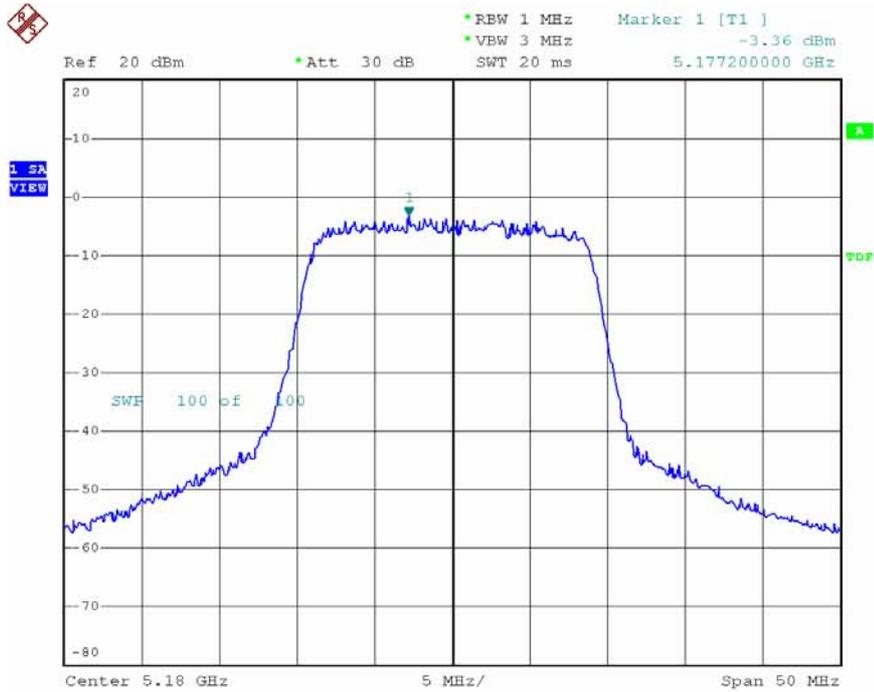
Date: 1.MAY.2008 18:29:14

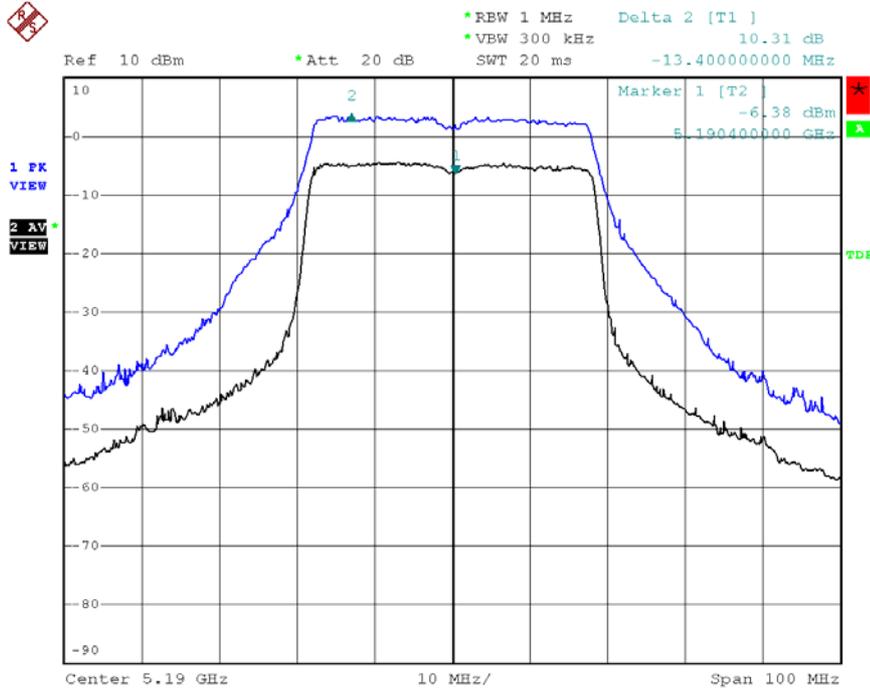Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44
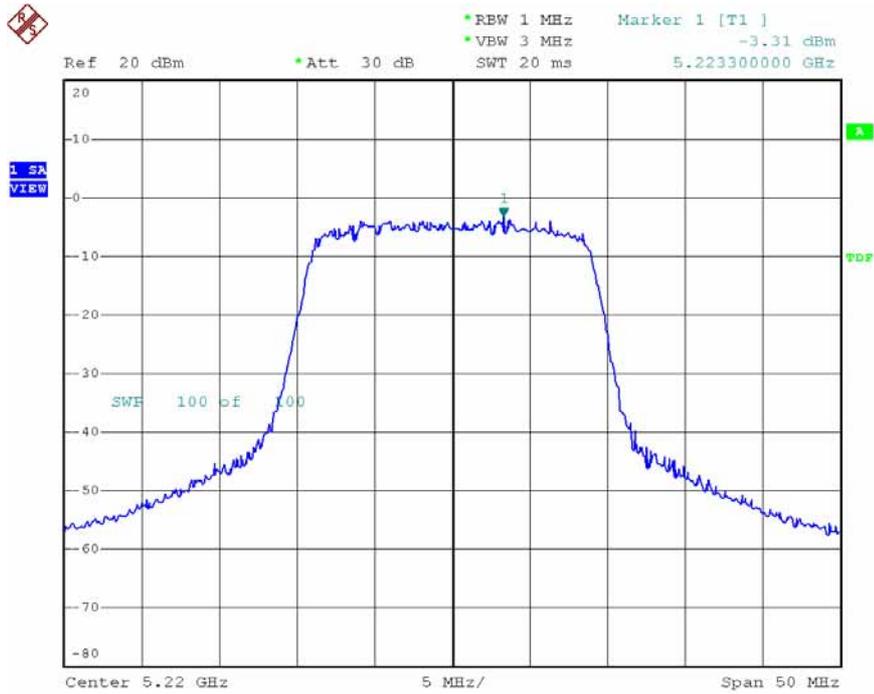
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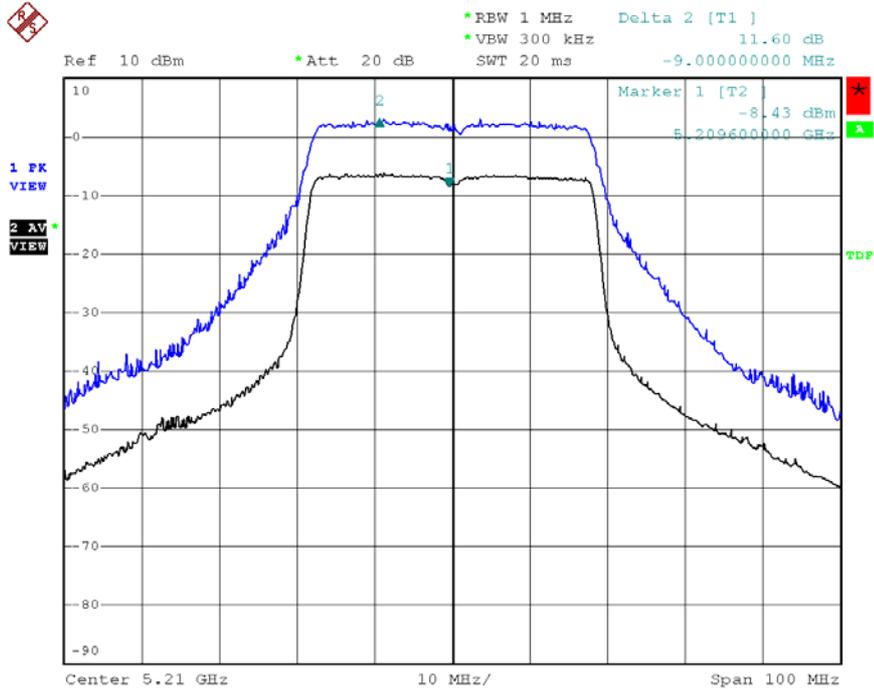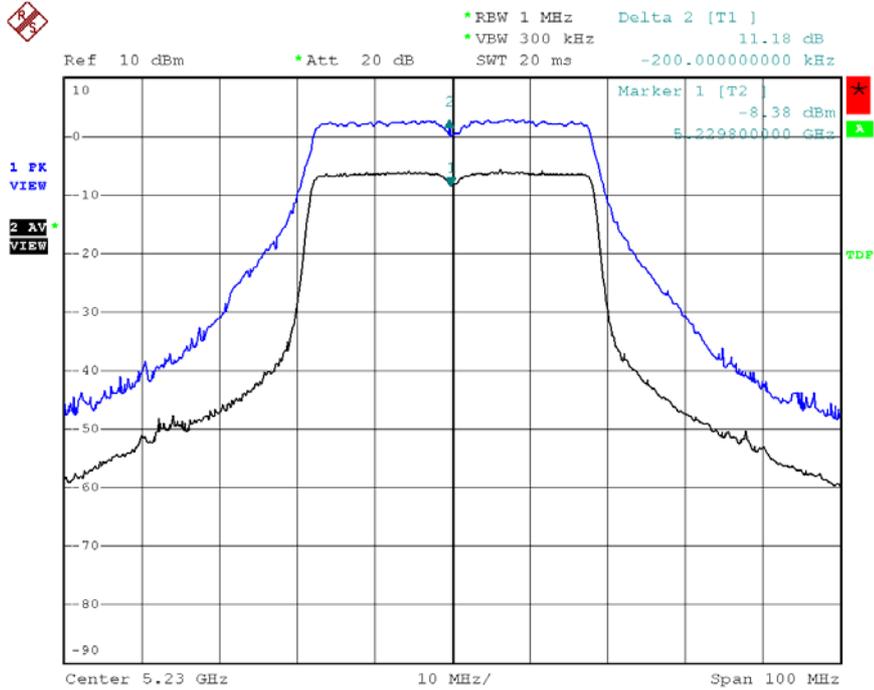Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48
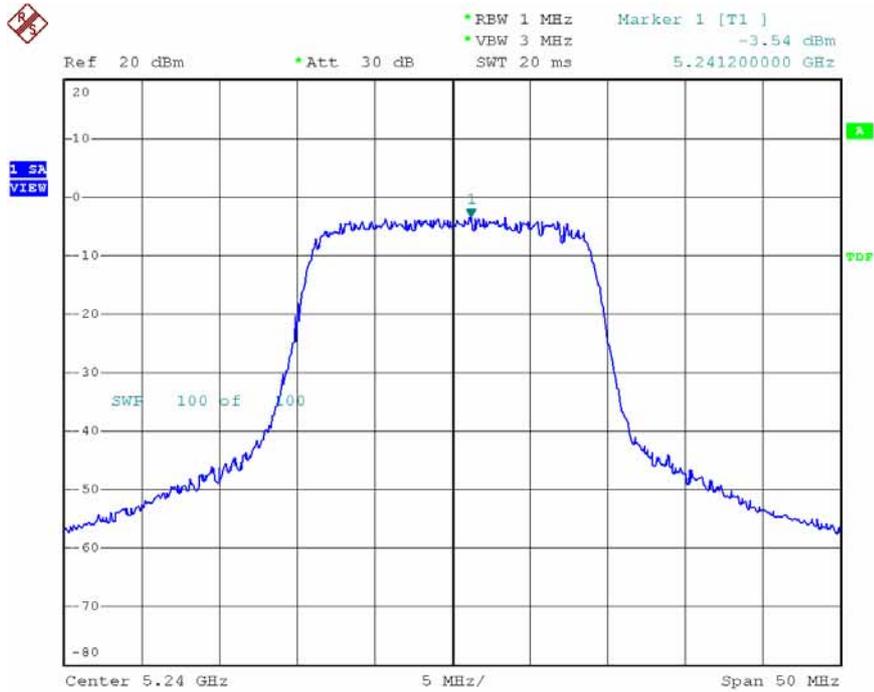
Date: 1.MAY.2008 18:26:58

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36
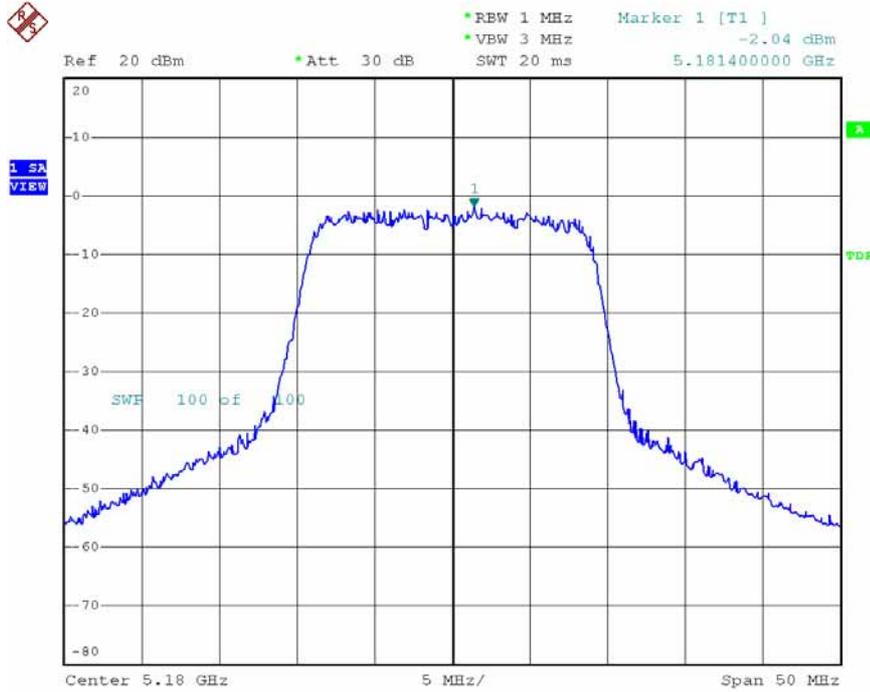
Date: 1.MAY.2008 18:29:42

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44
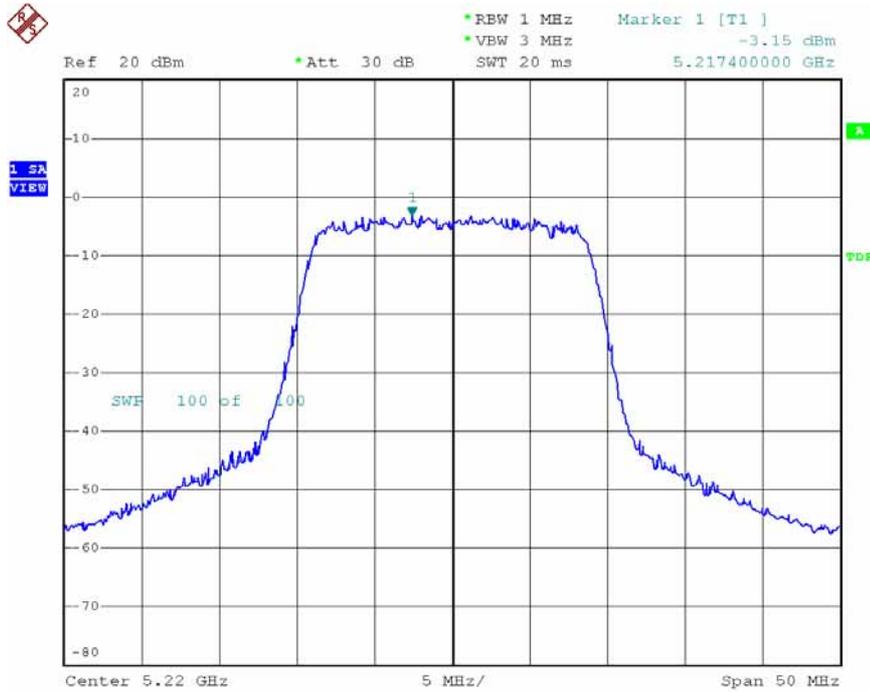
Date: 1.MAY.2008 18:28:03

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 48
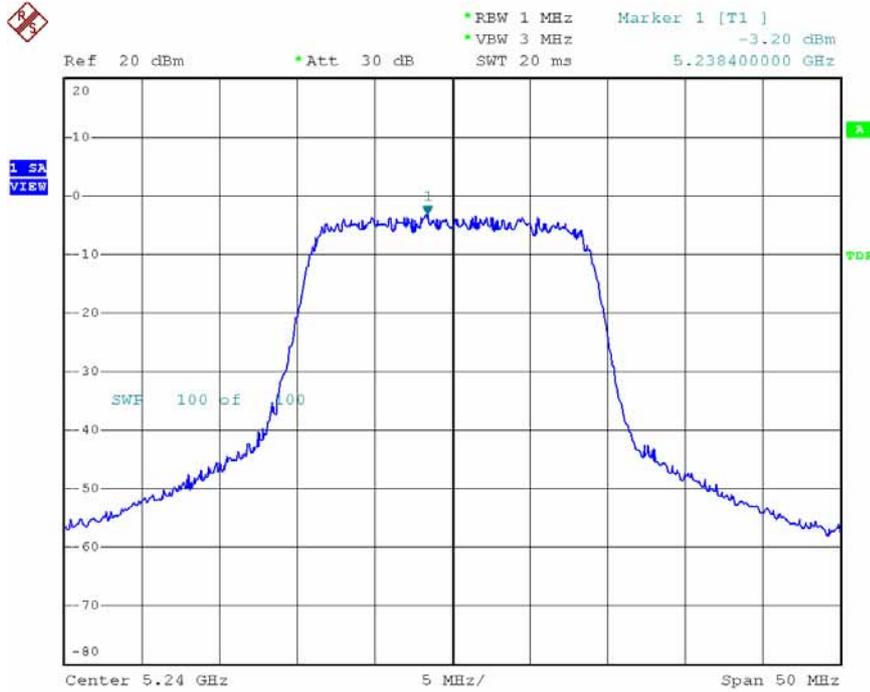
Date: 1.MAY.2008 18:27:29

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38
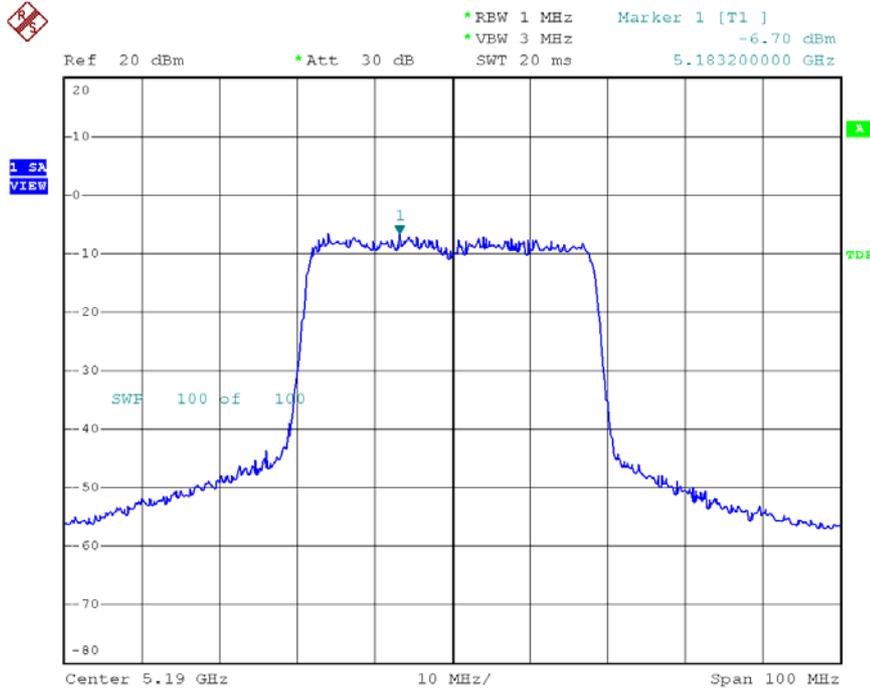
Date: 1.MAY.2008 18:53:59

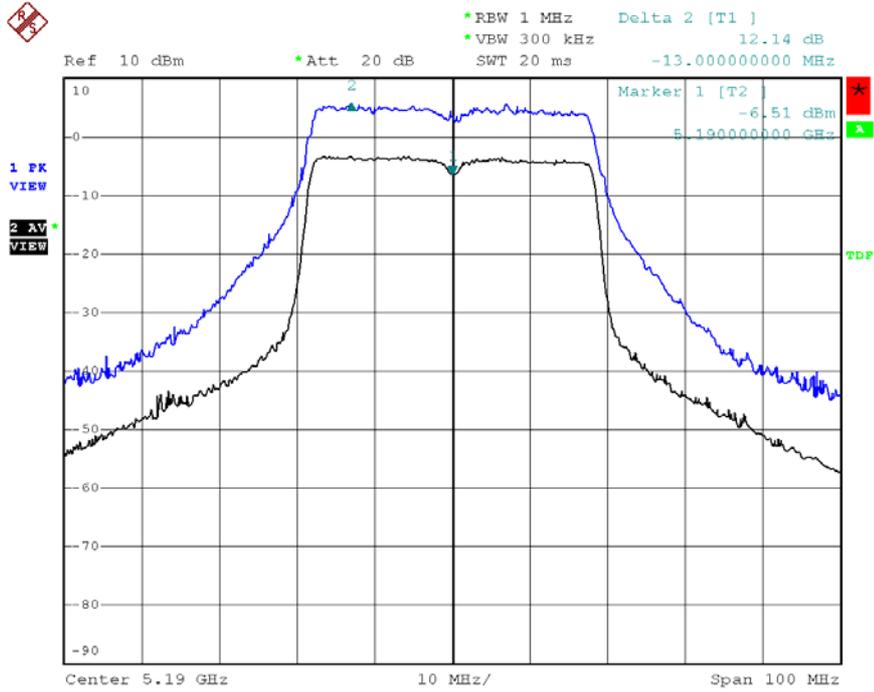Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 42
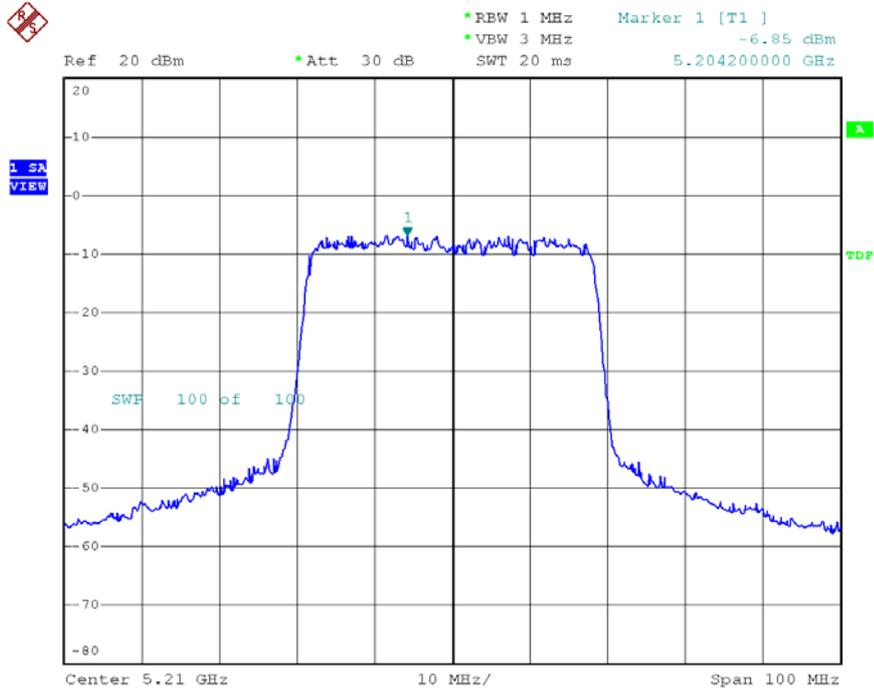
Date: 1.MAY.2008 18:48:24

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
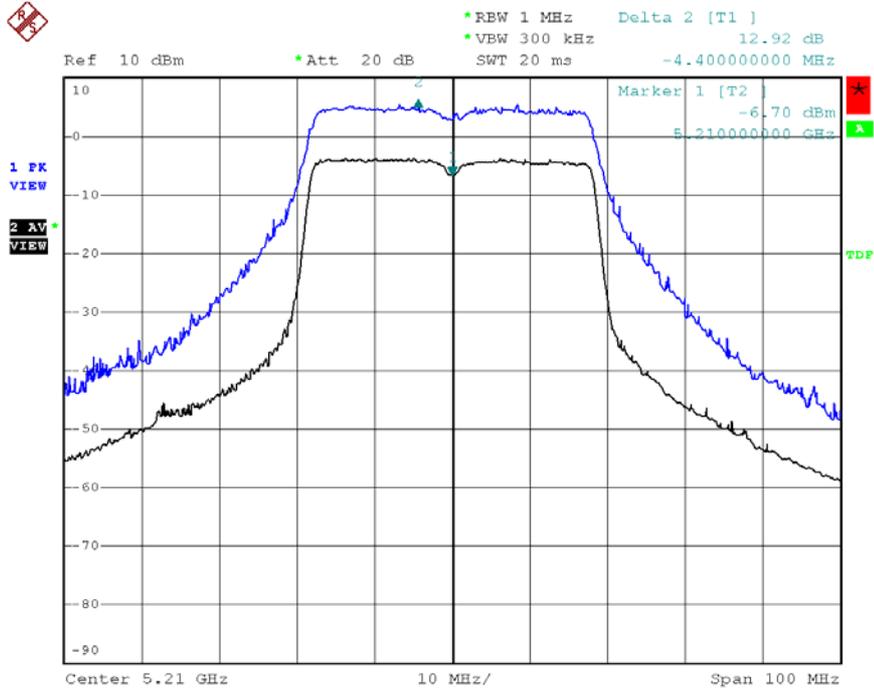Channel: 46
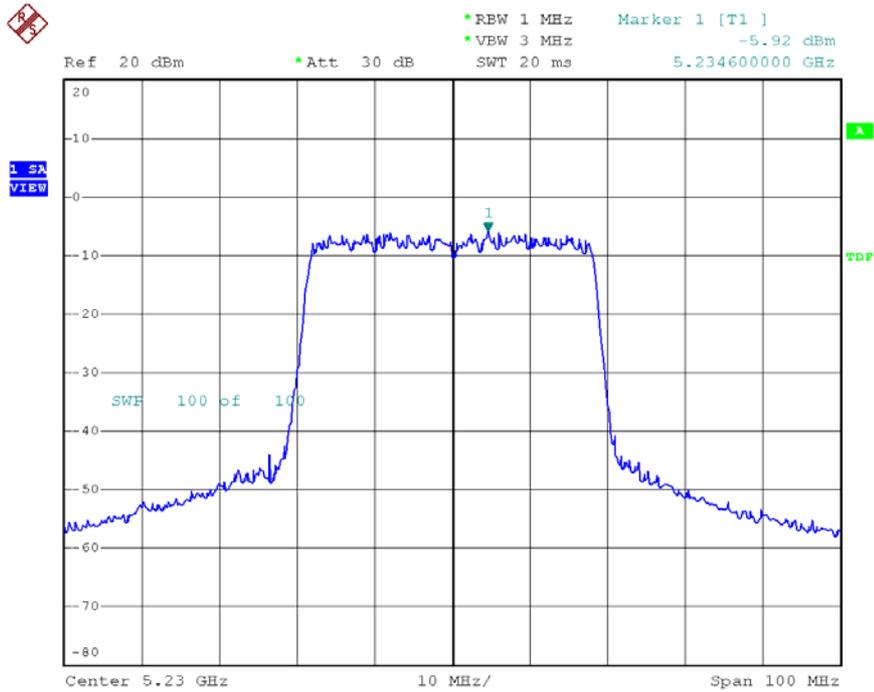
Date: 1.MAY.2008 18:47:38

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
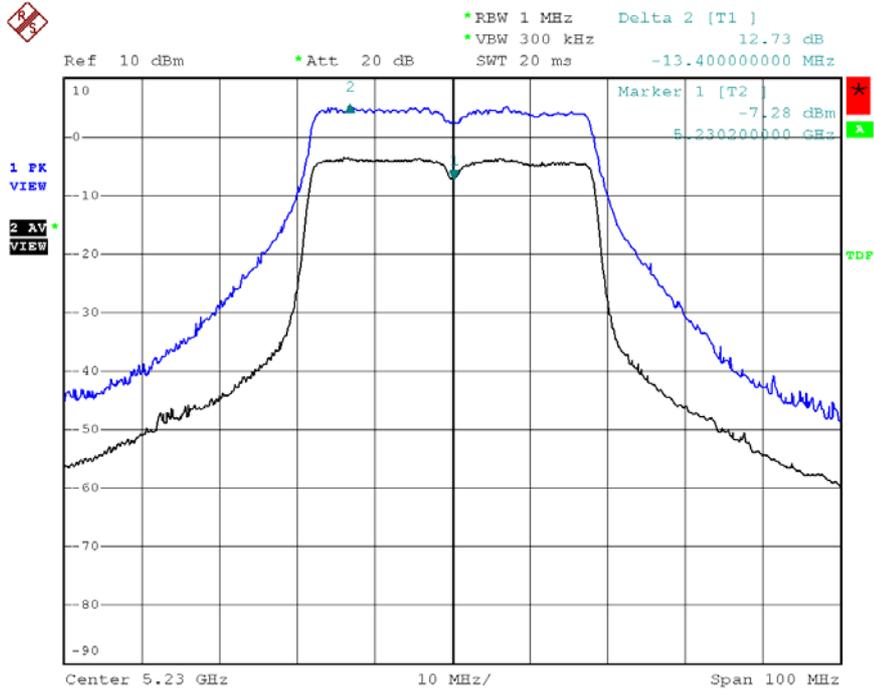Channel: 38
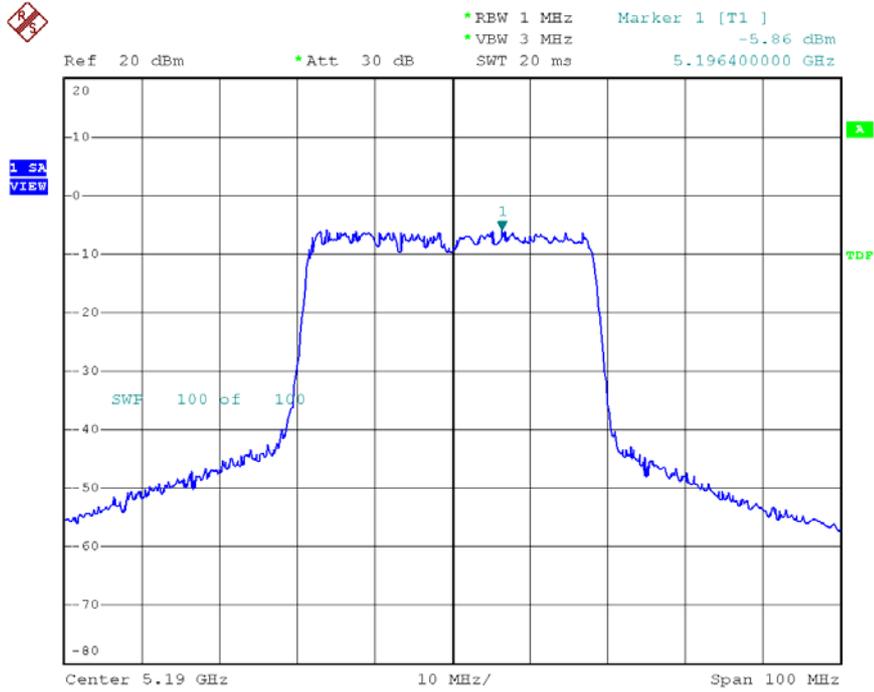
Date: 1.MAY.2008 18:53:26

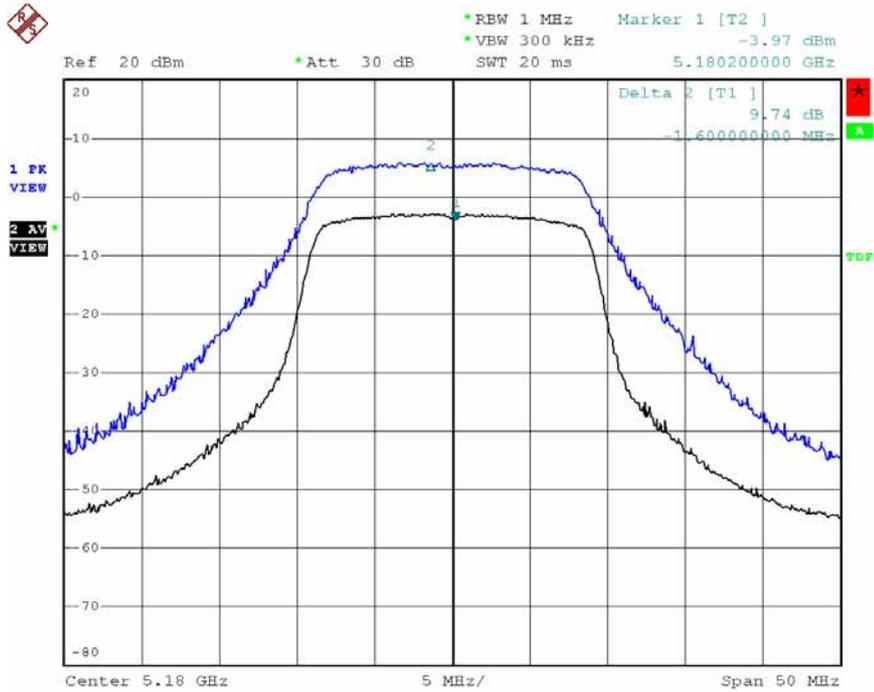Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42
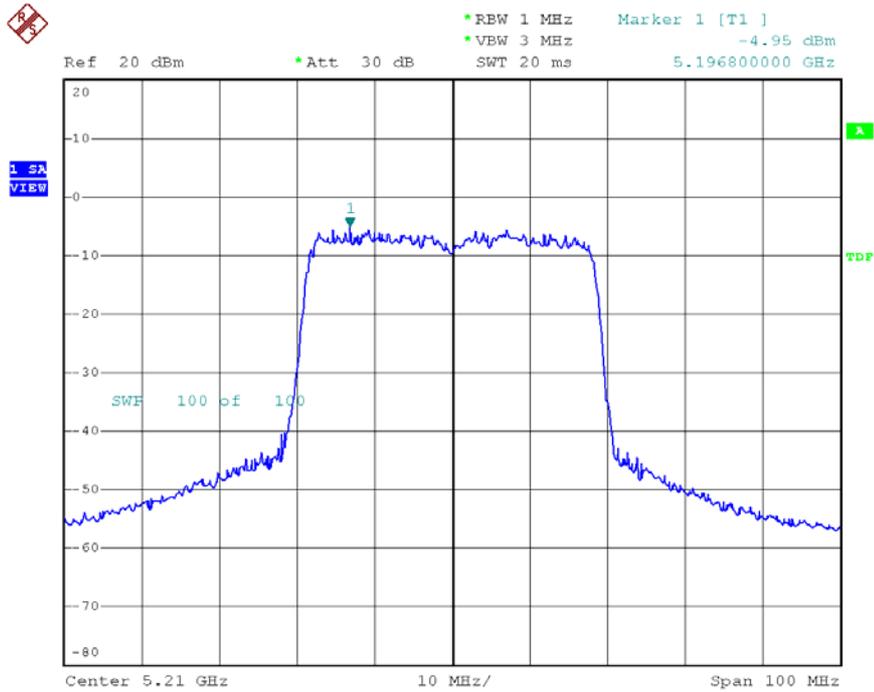
Date: 1.MAY.2008 18:49:47

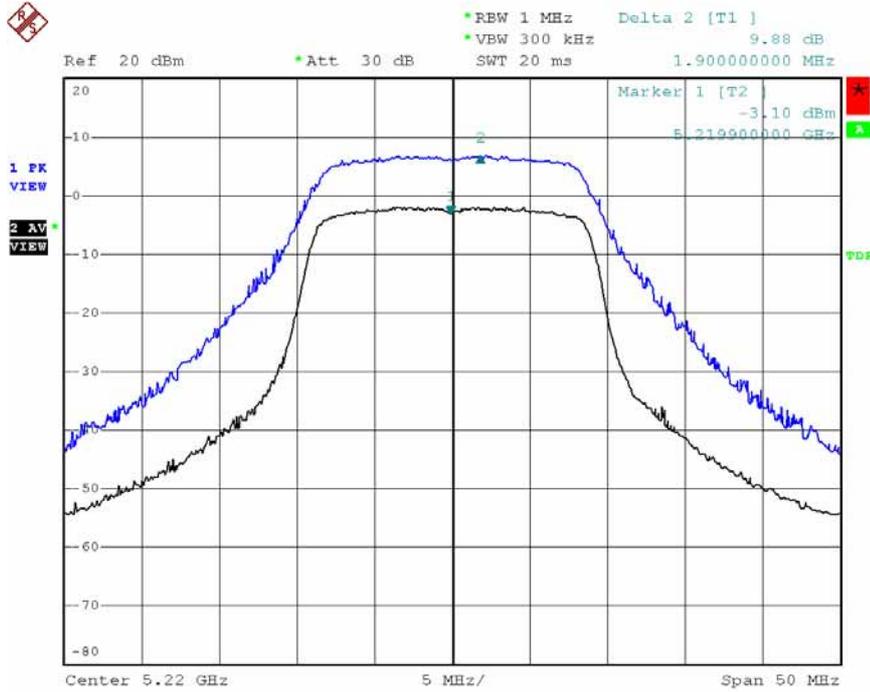Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 46
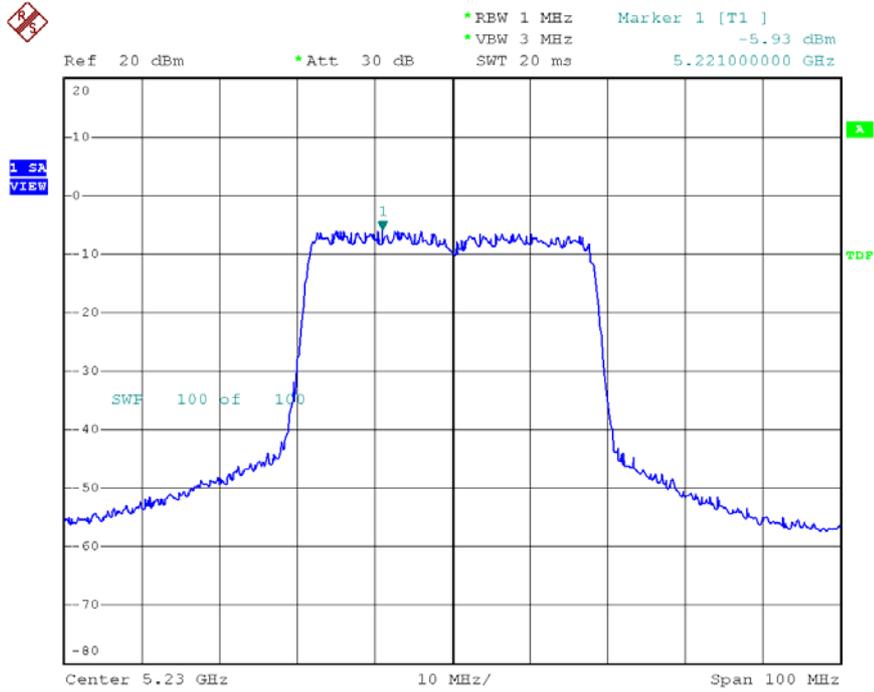
Date: 1.MAY.2008   18:47:01

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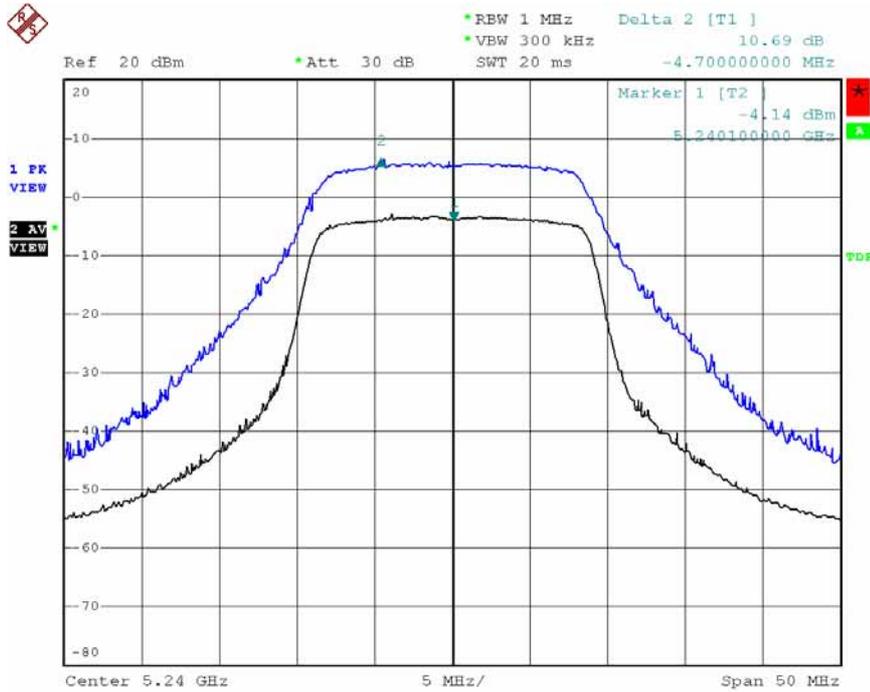Channel: 36
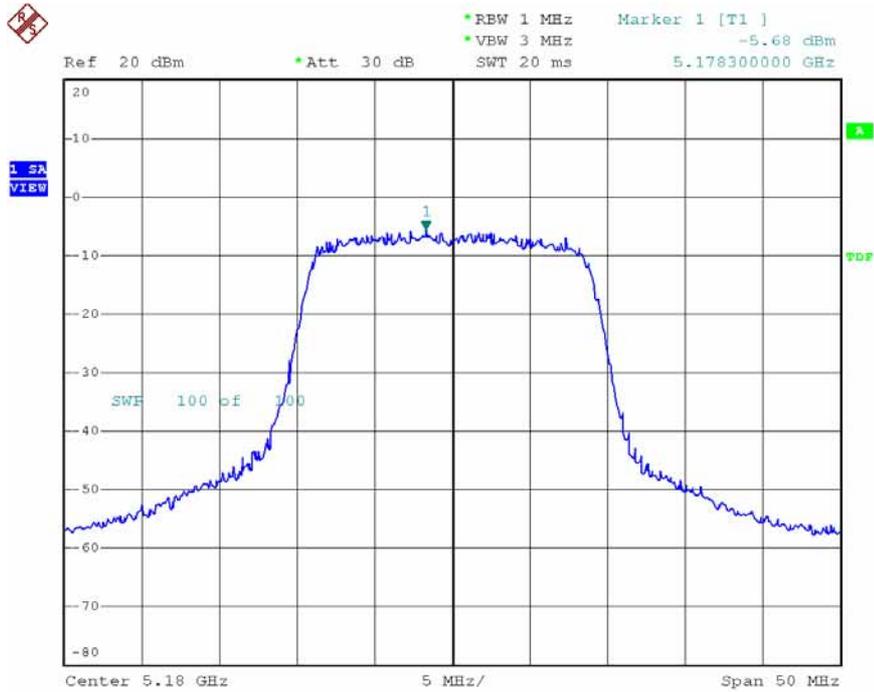
Date: 1.MAY.2008   19:18:25

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 44
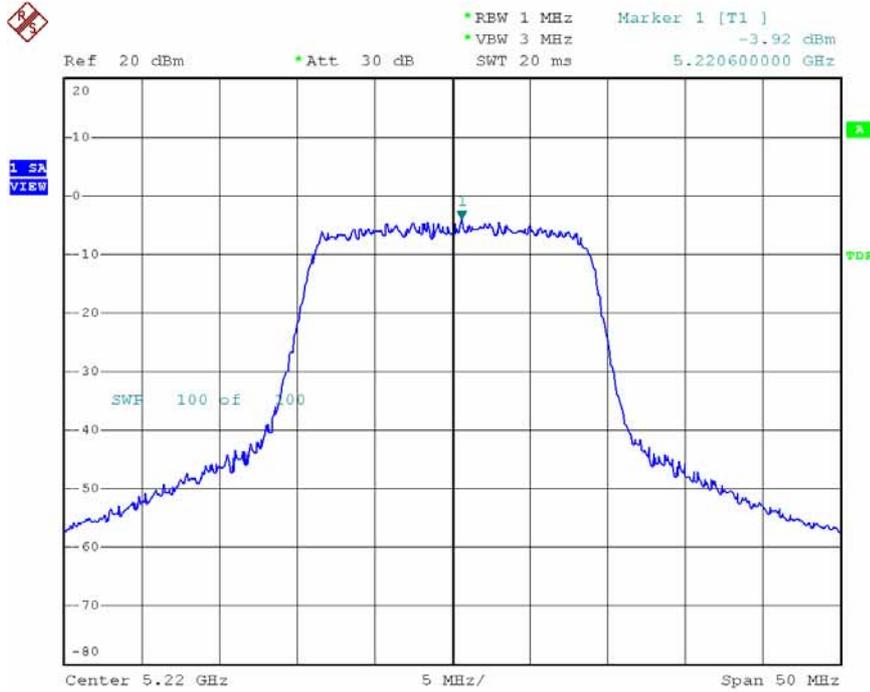
Date: 1.MAY.2008 19:18:00

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 48
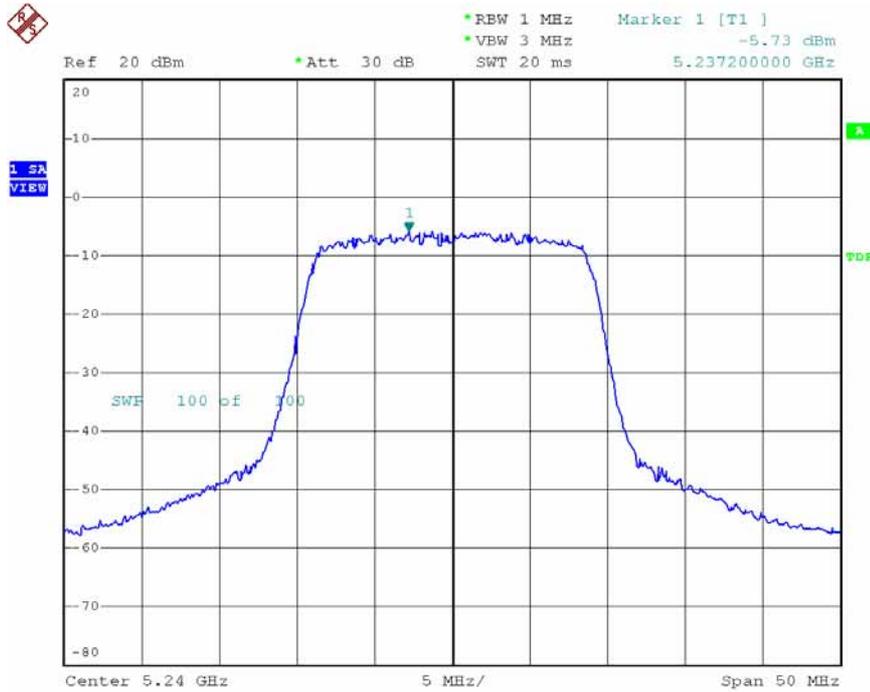
Date: 1.MAY.2008 19:17:21

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 36
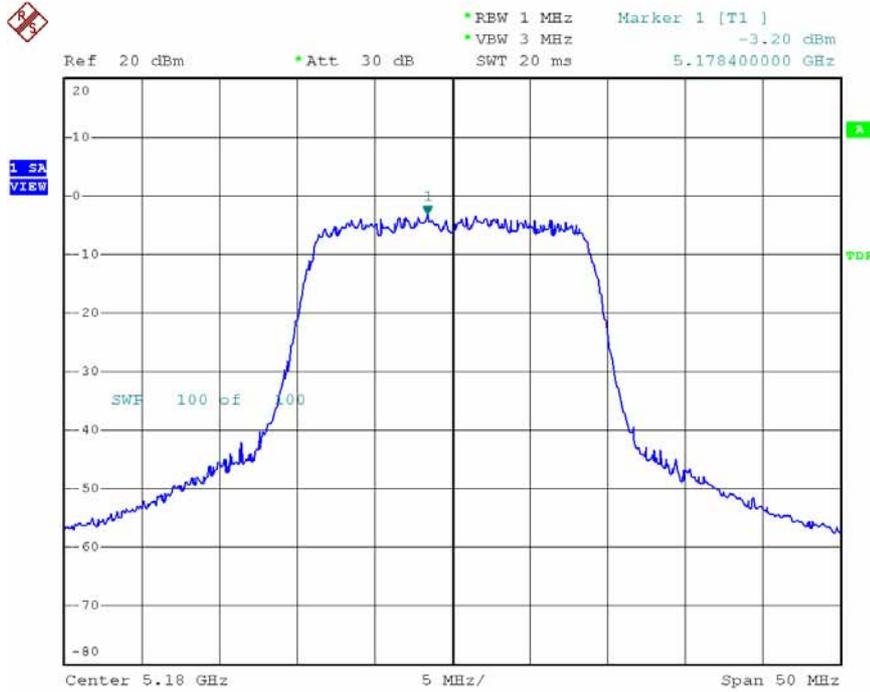
Date: 1.MAY.2008 19:18:56

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
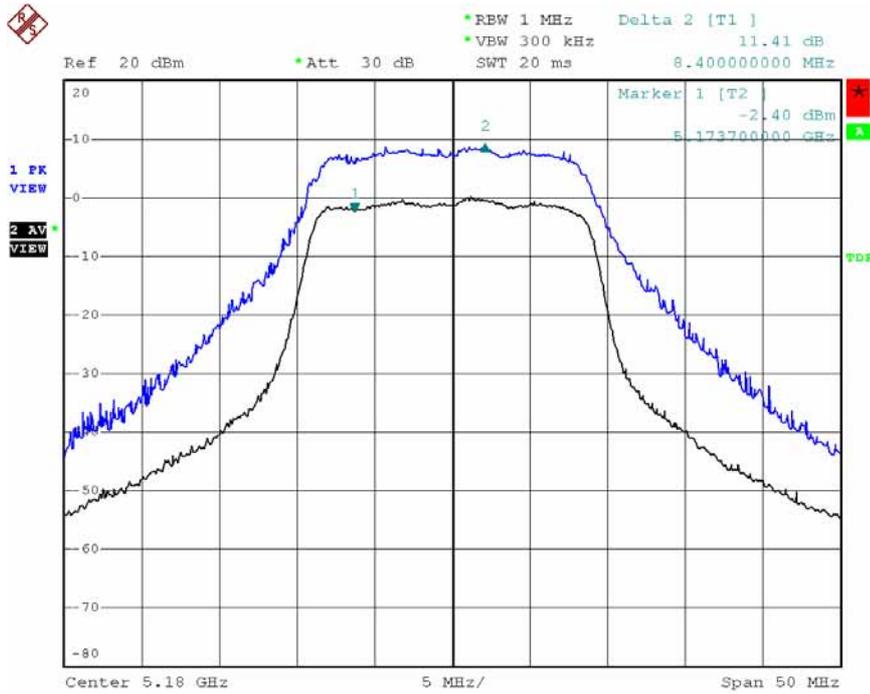Channel: 44
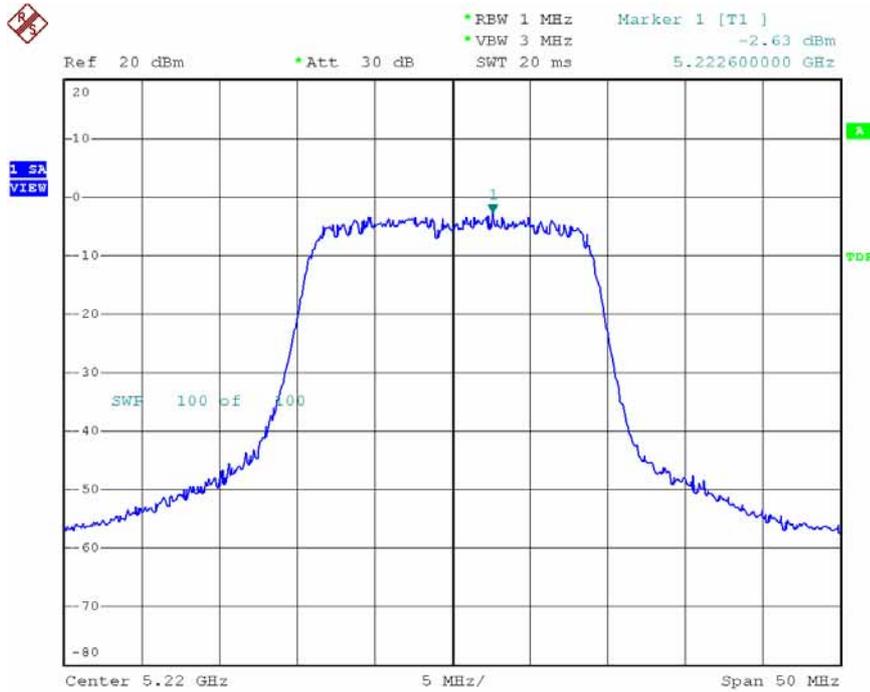
Date: 1.MAY.2008 19:19:25

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 48
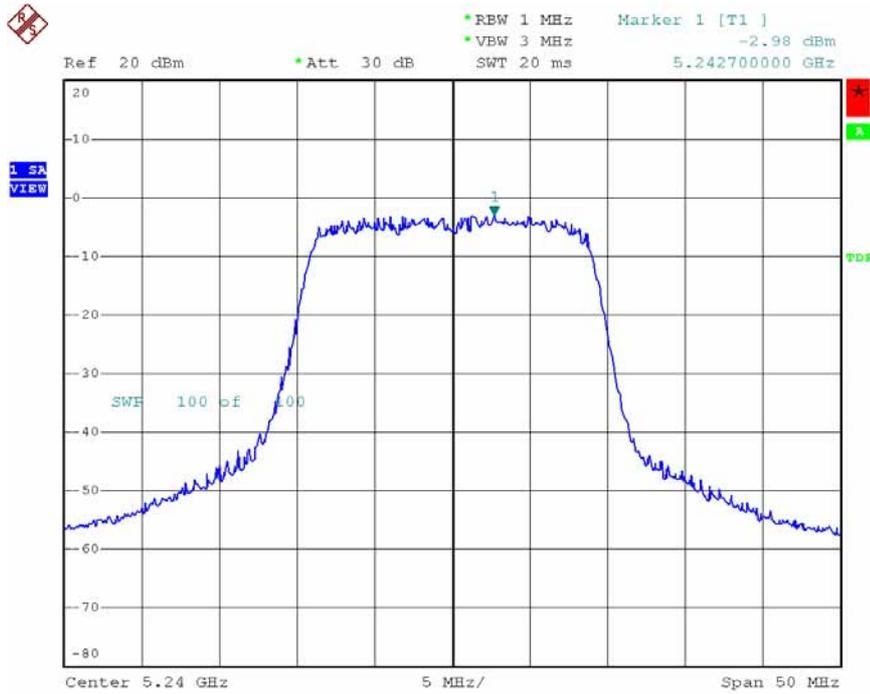
Date: 1.MAY.2008 19:19:54

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36
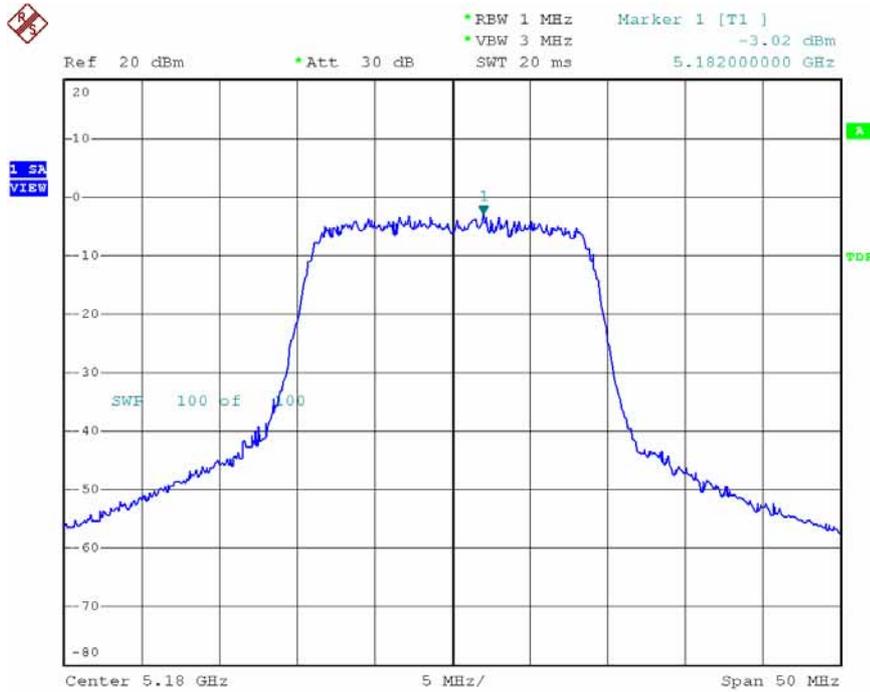
Date: 1.MAY.2008 19:21:30

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 44
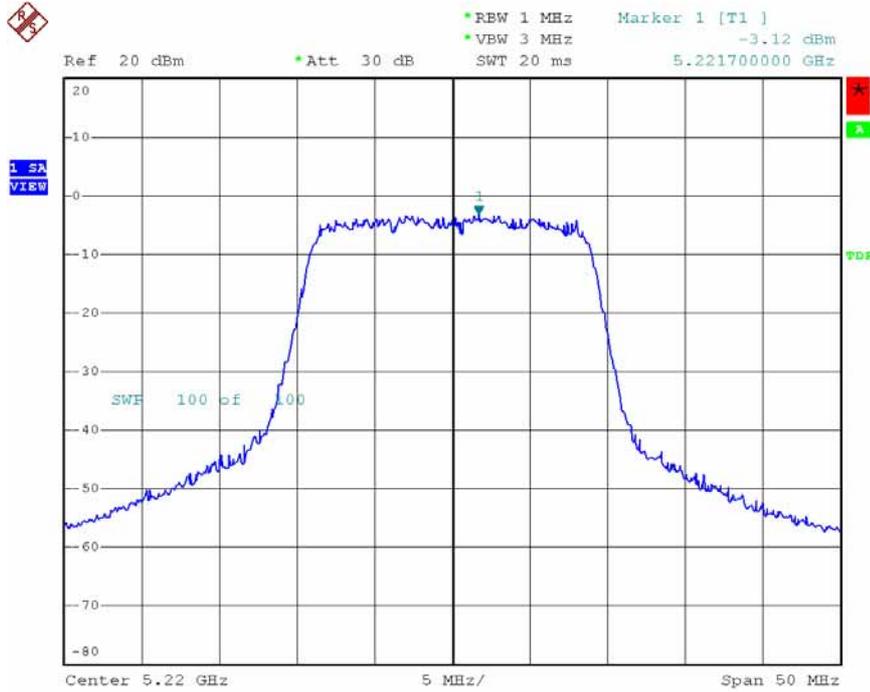
Date: 1.MAY.2008 19:20:57

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
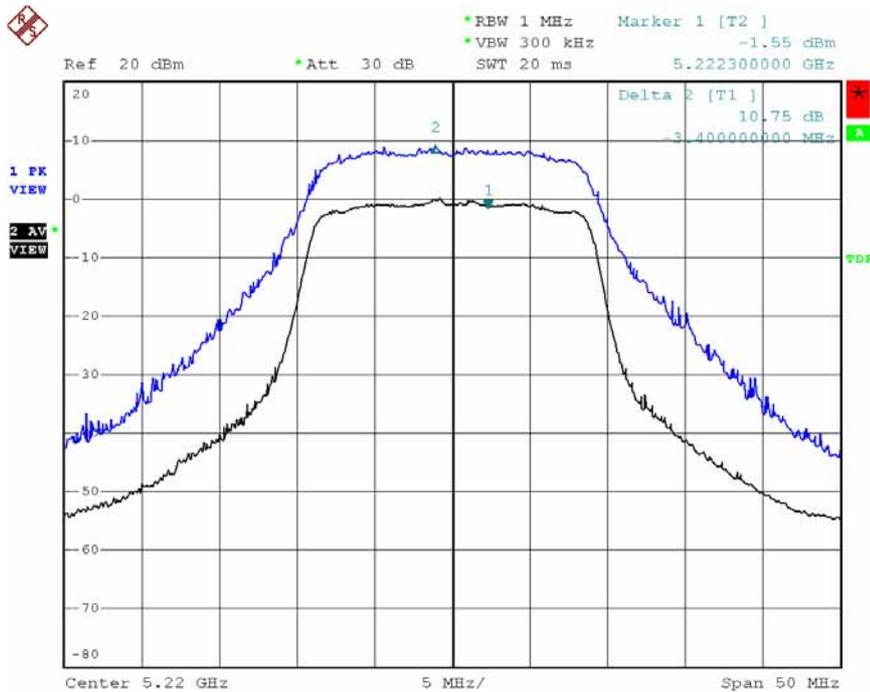Channel: 48
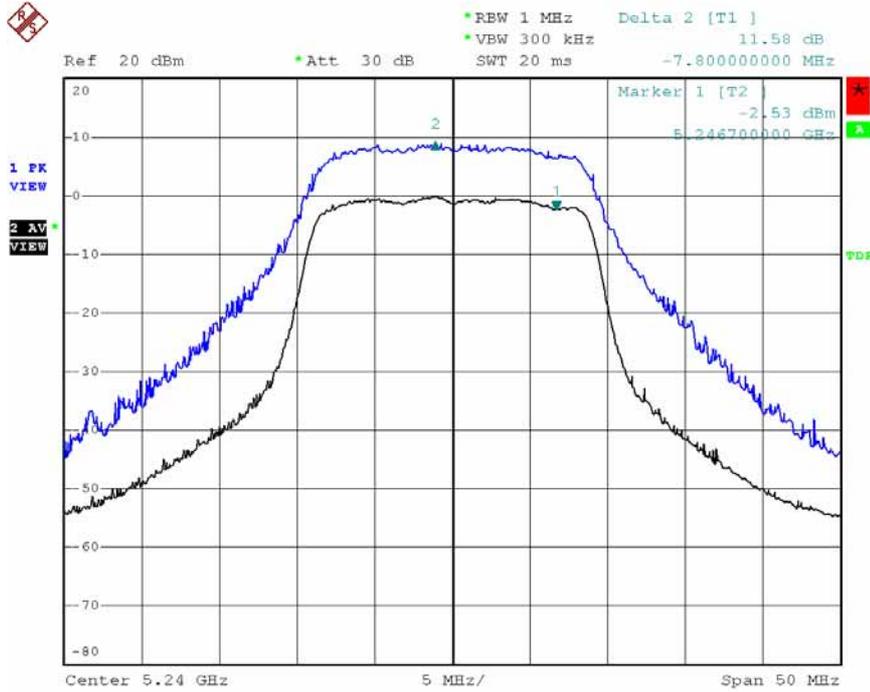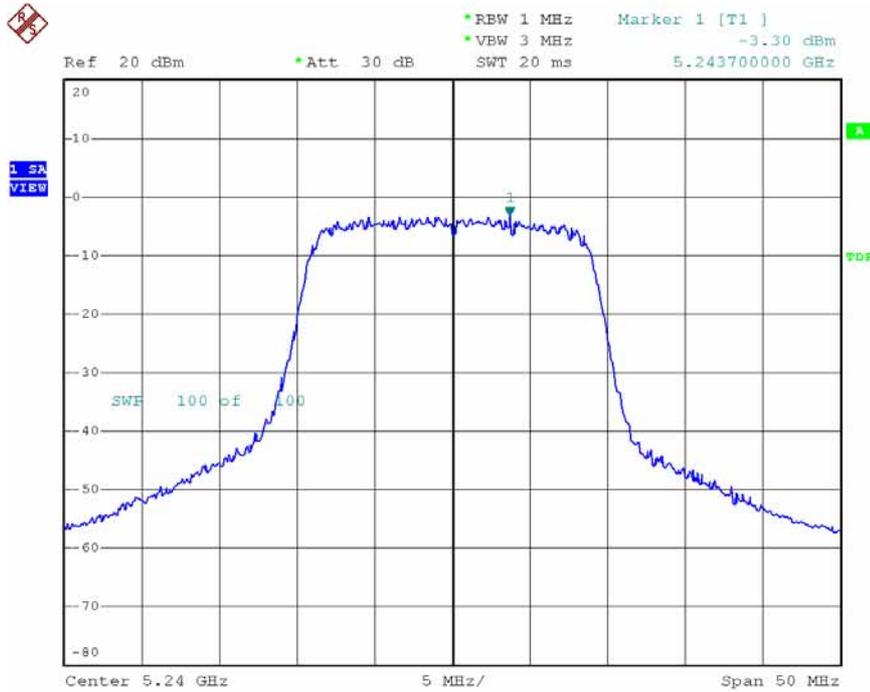

Date: 1.MAY.2008 19:20:28

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38
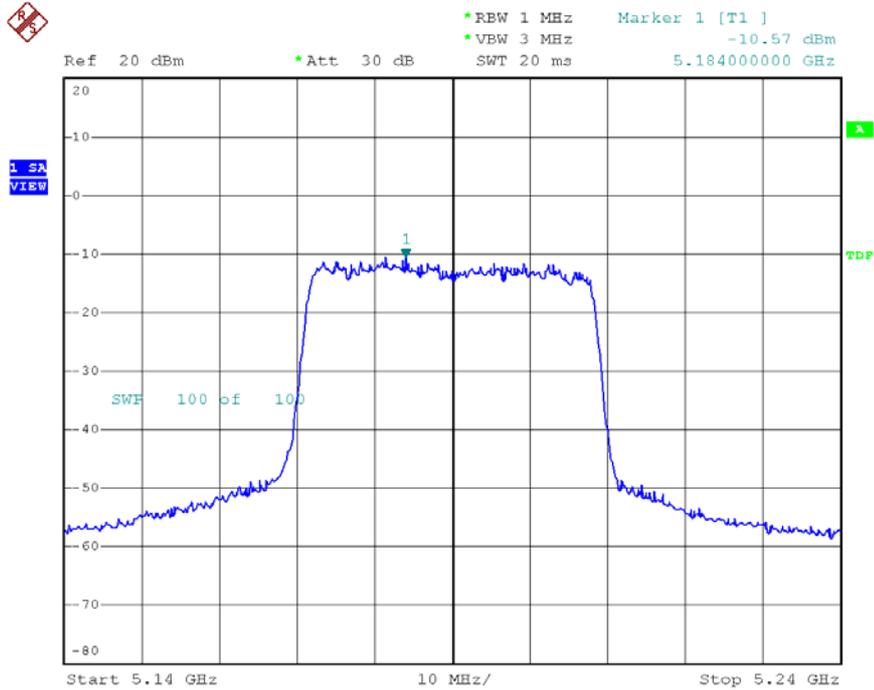
Date: 1.MAY.2008 19:48:33

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
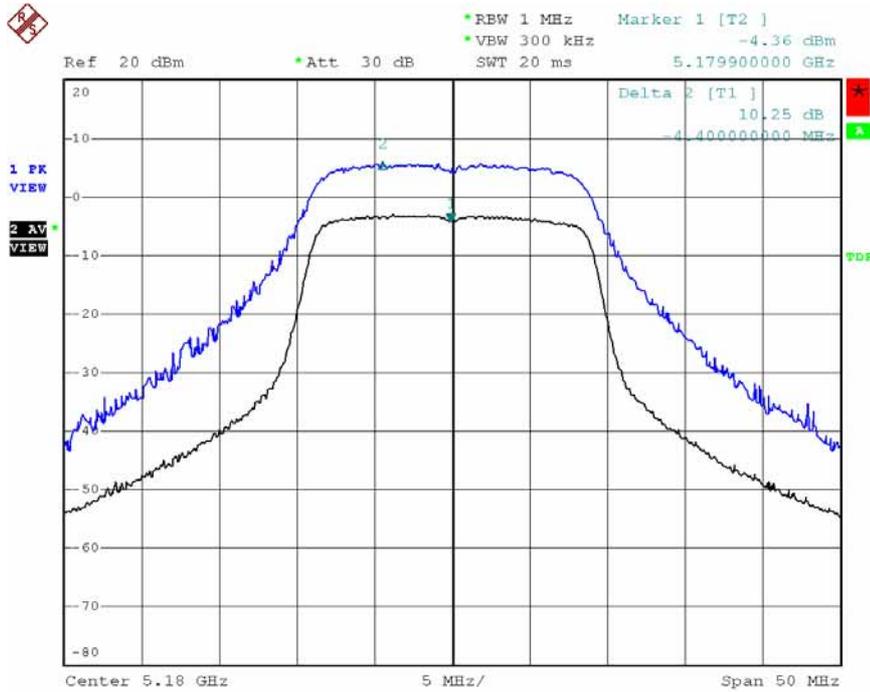Channel: 42
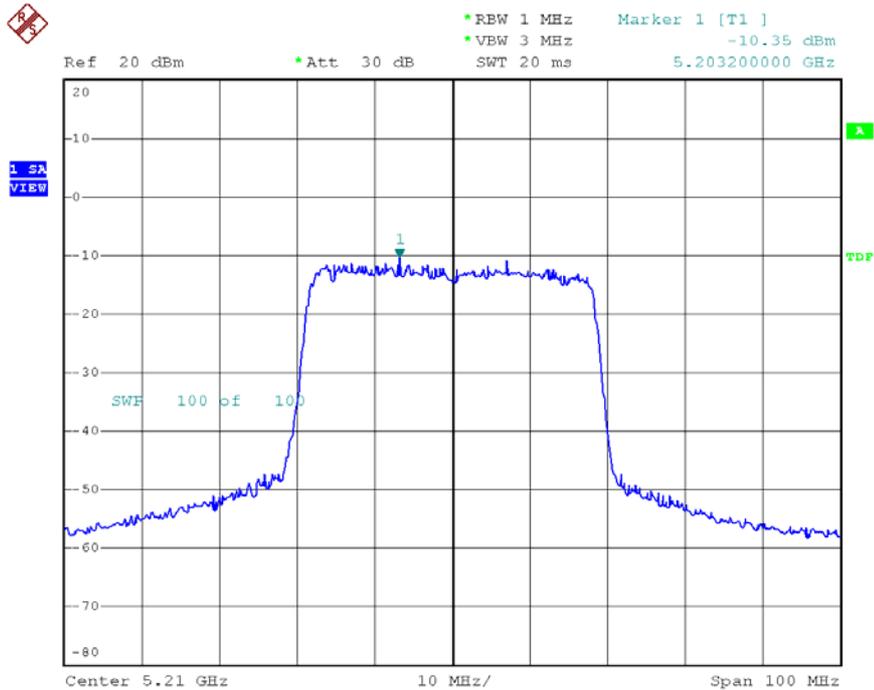
Date: 1.MAY.2008 19:49:24

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 46
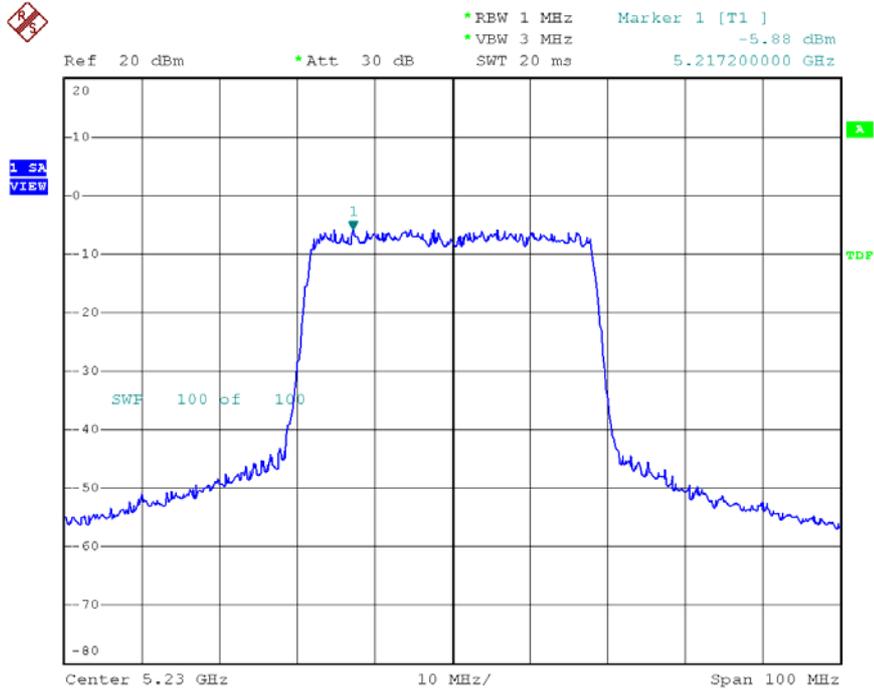
Date: 1.MAY.2008 19:52:35

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 38
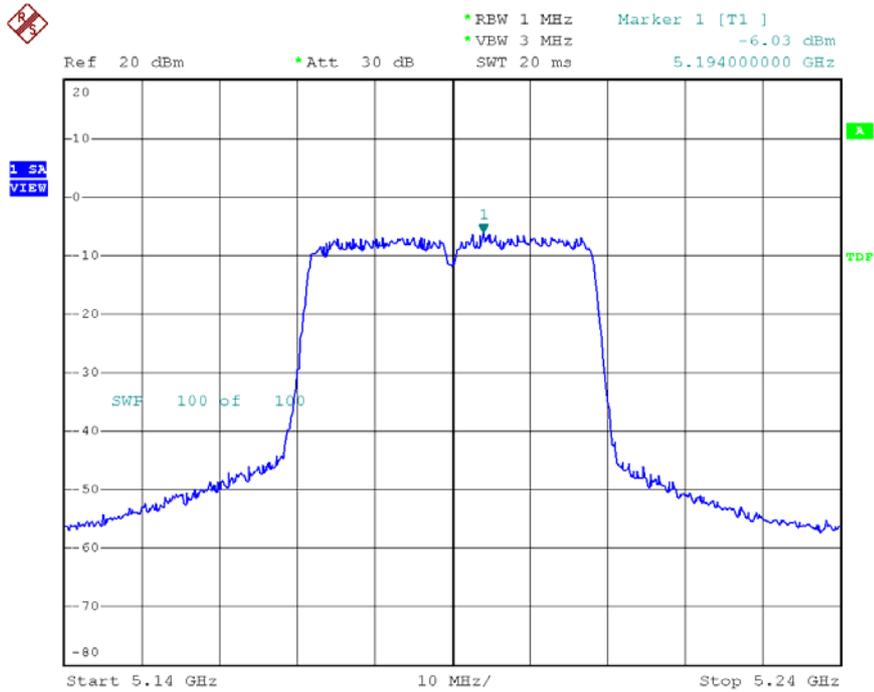
Date: 1.MAY.2008 19:47:46

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 42
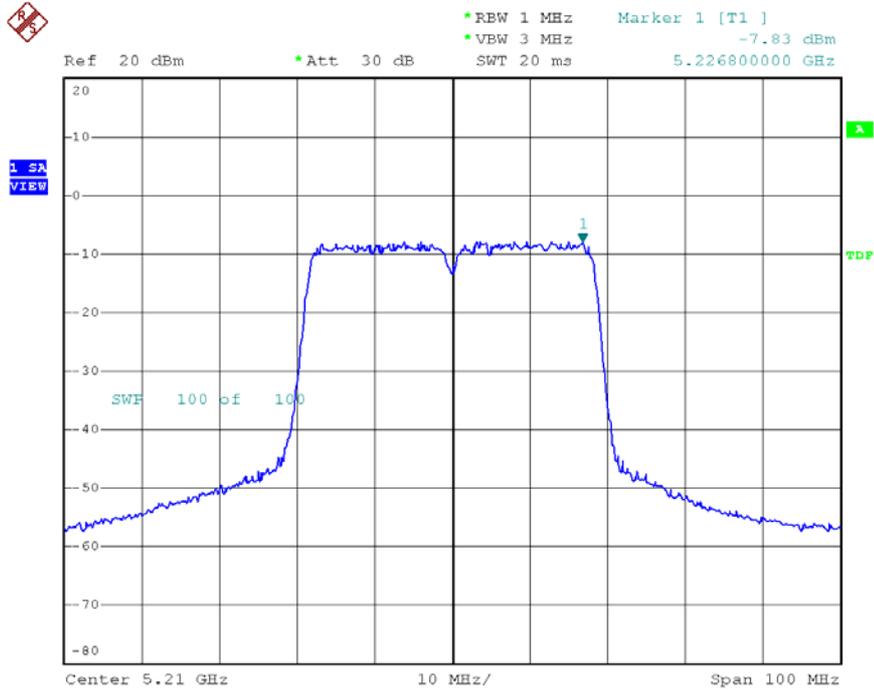
Date: 1.MAY.2008 19:50:20

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
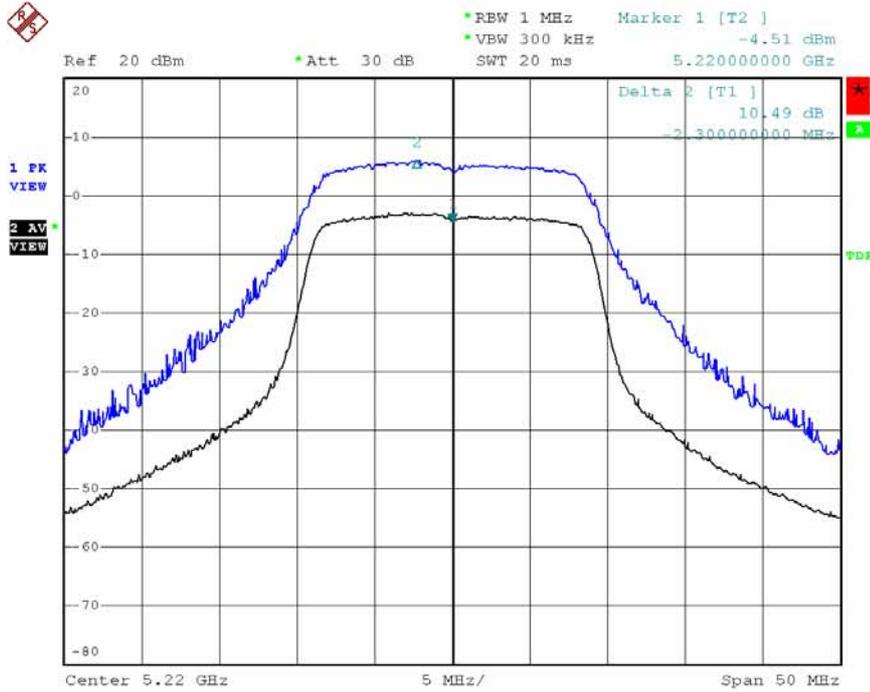Channel: 46
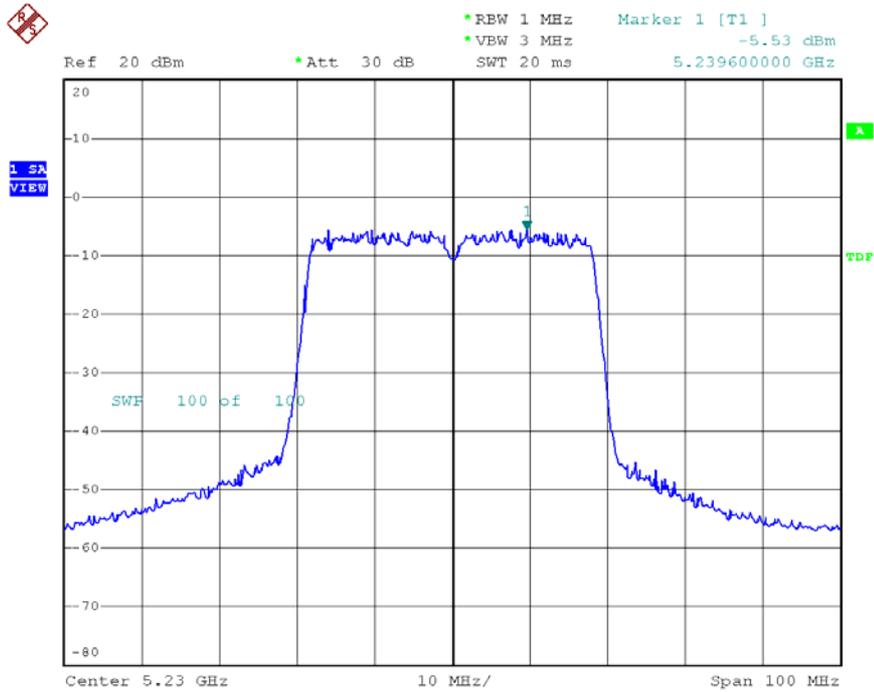
Date: 1.MAY.2008 19:51:50

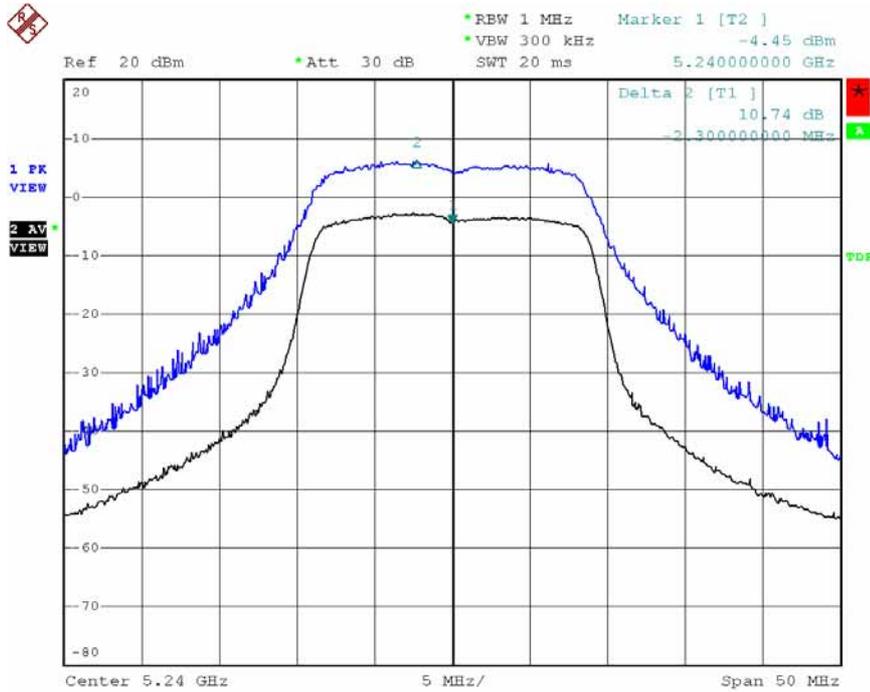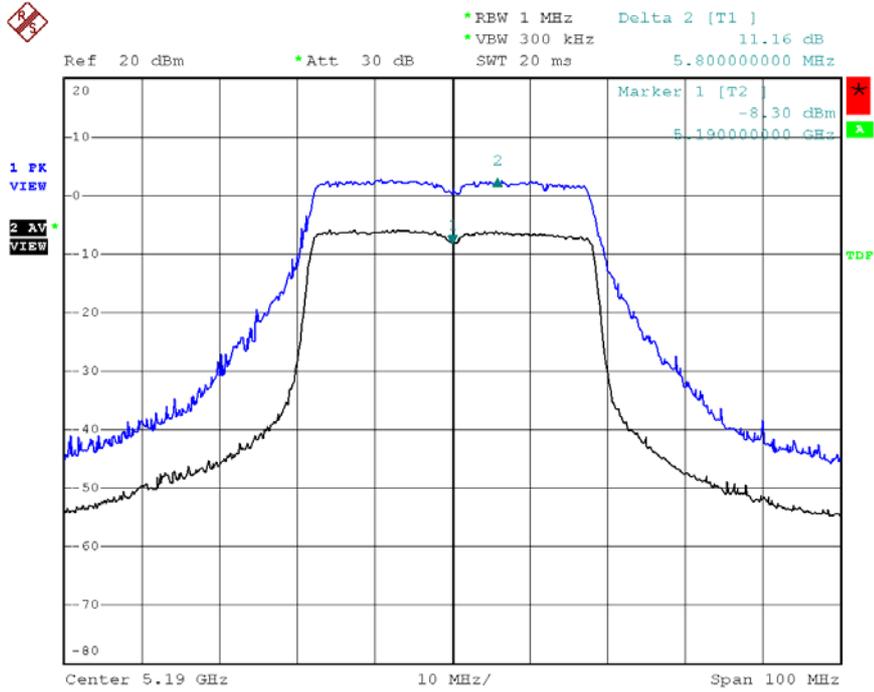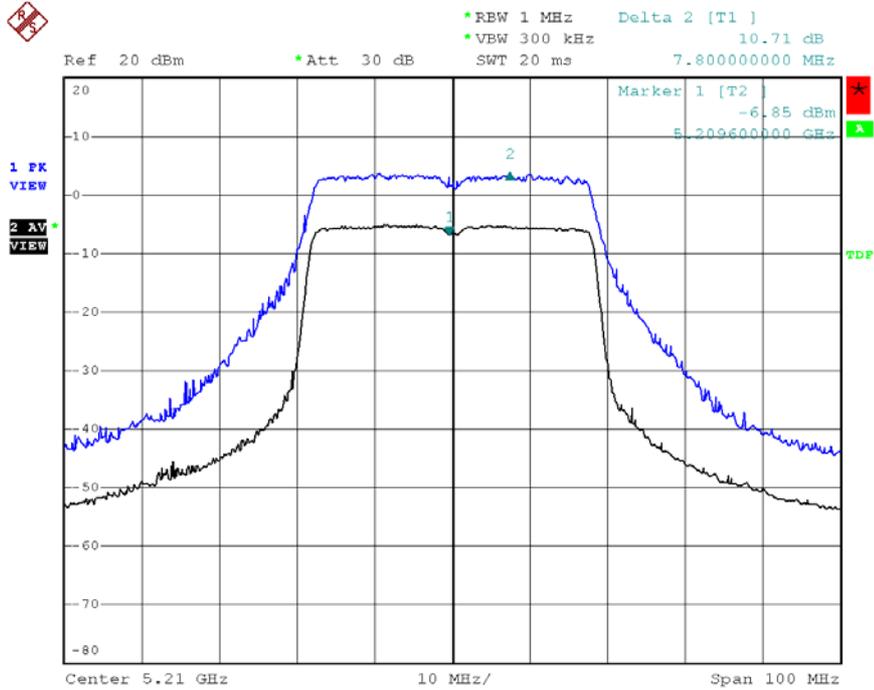Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
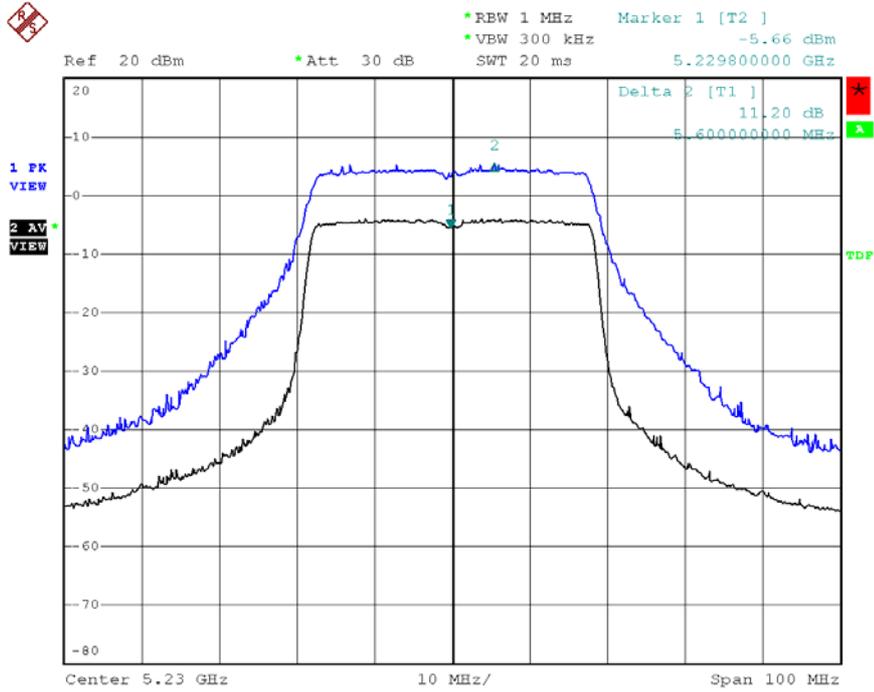Channel: 38
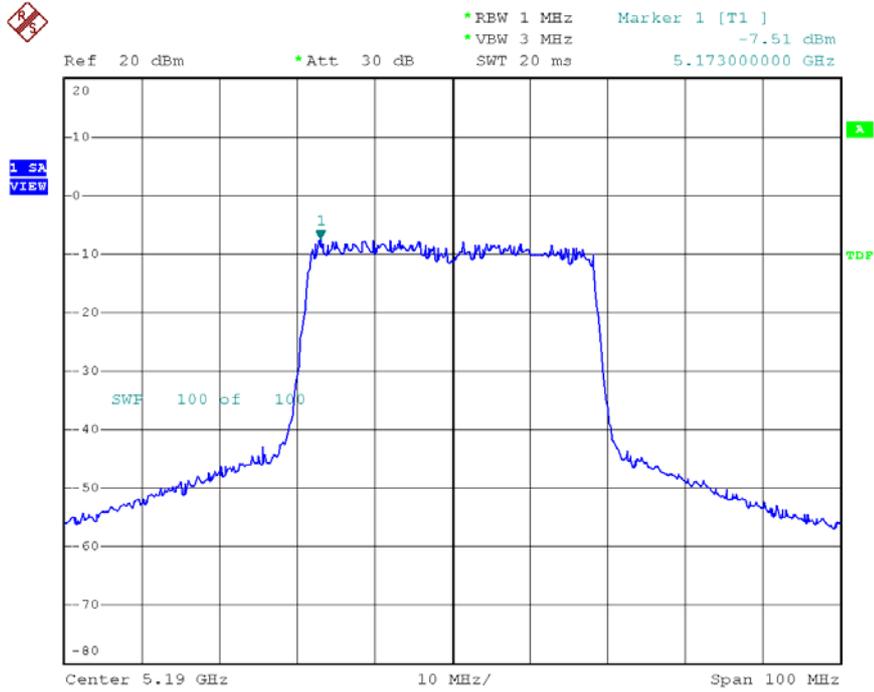
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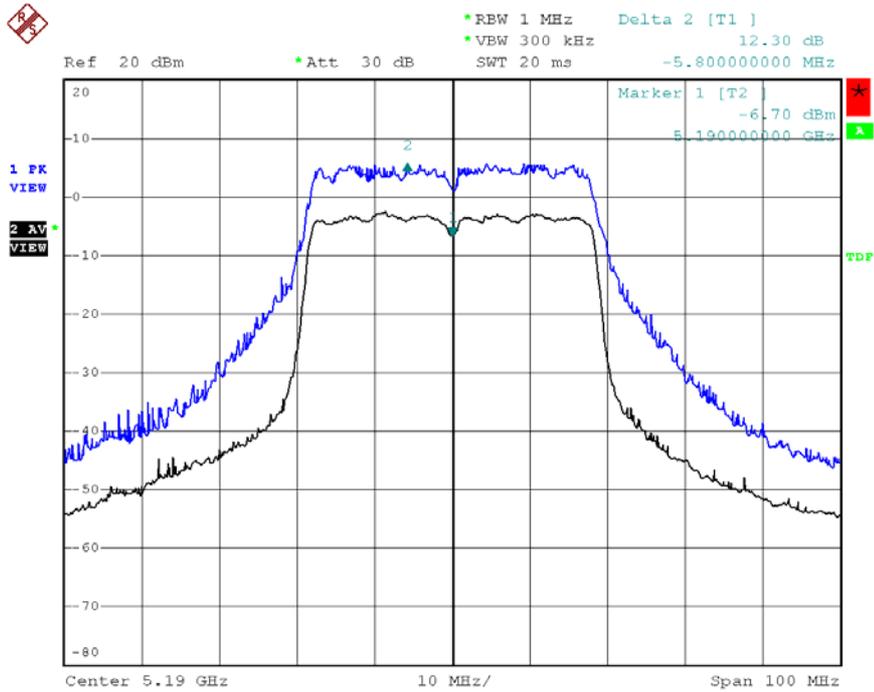Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 42
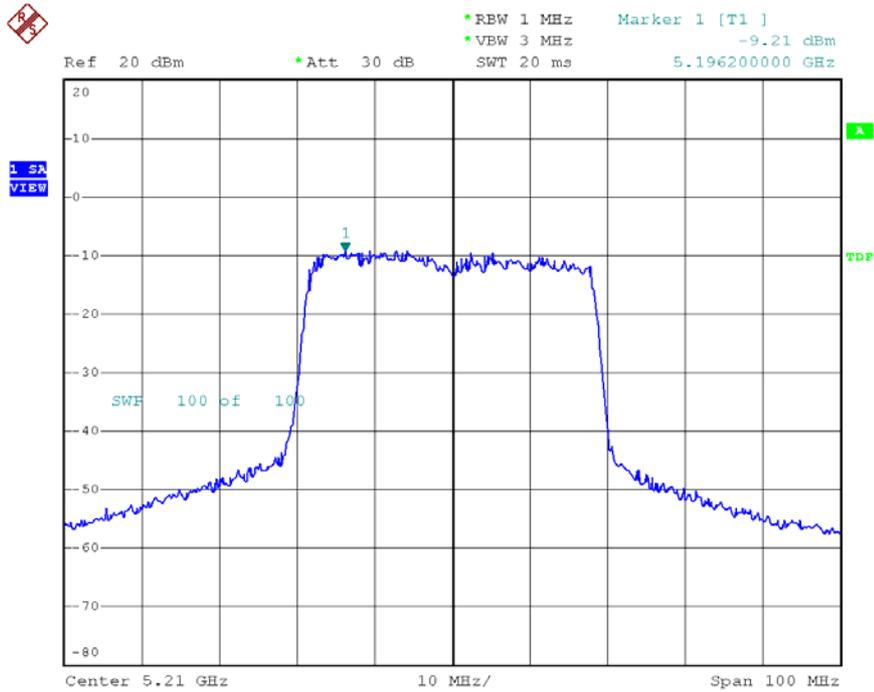
Date: 1.MAY.2008 19:50:46

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
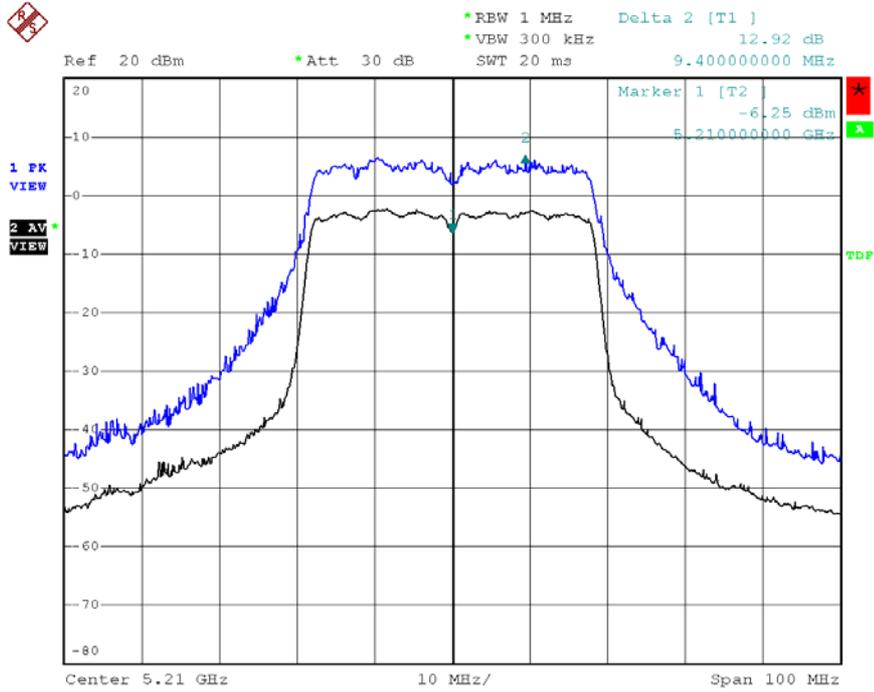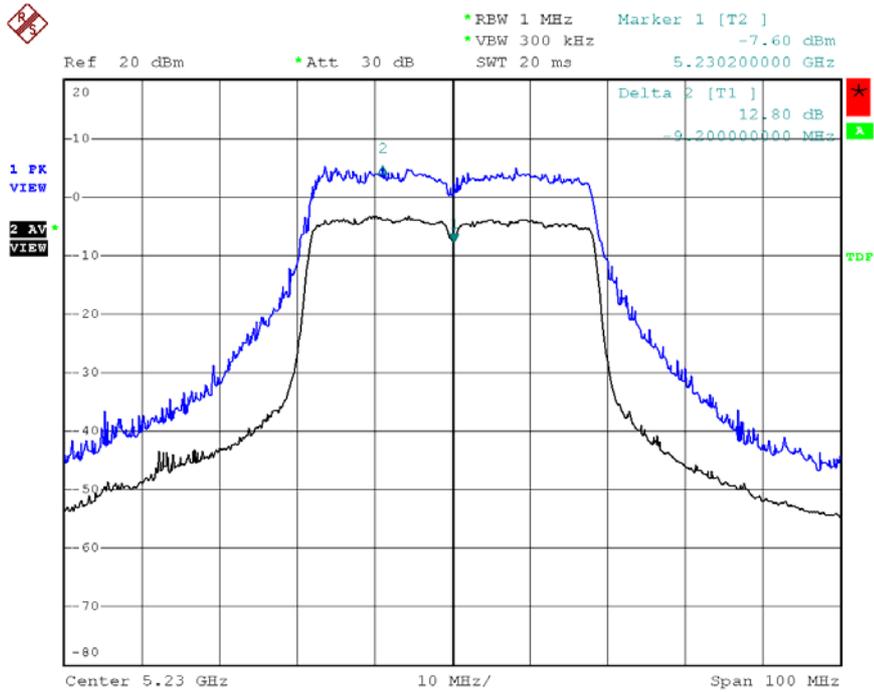Channel: 46
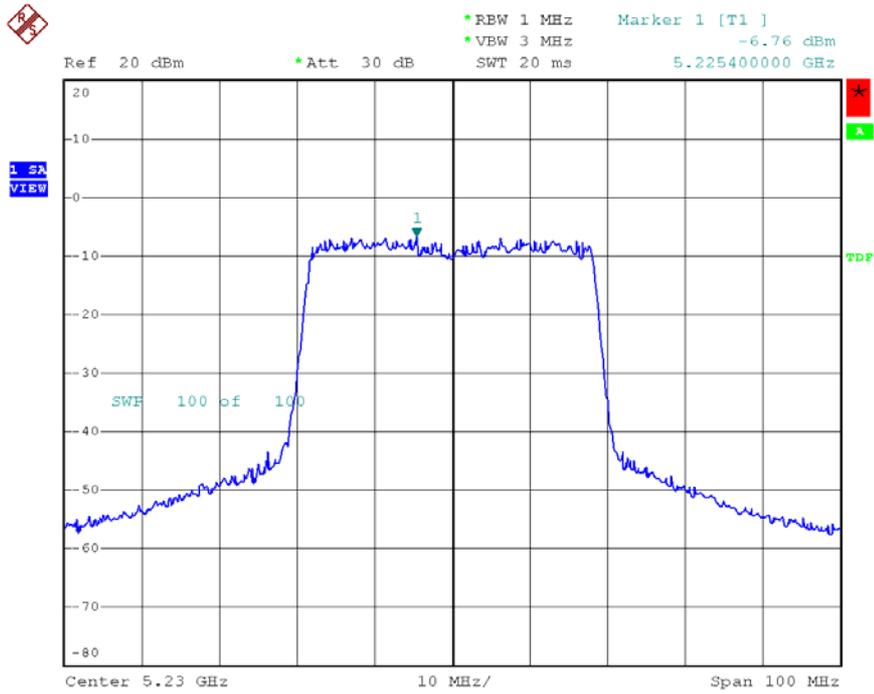
Date: 1.MAY.2008 19:51:26

9. Frequency Stability

9.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

9.2. Test Setup Layout
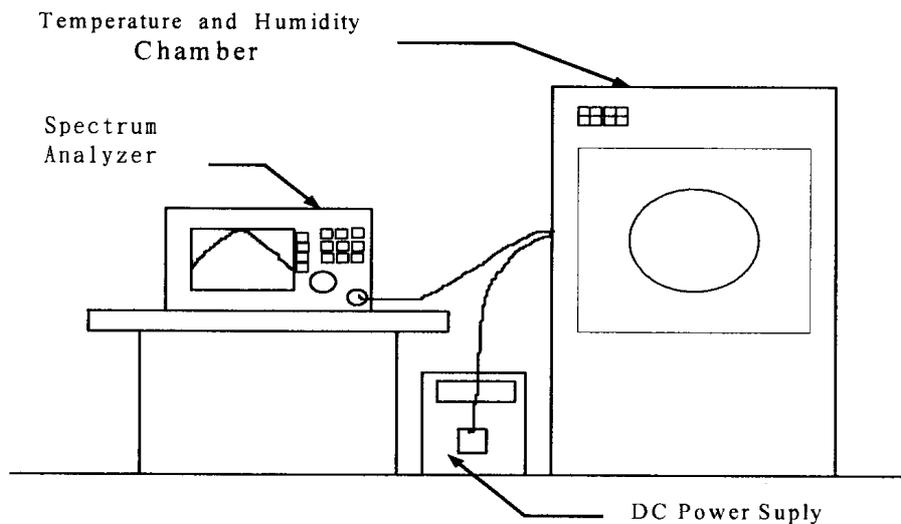
9.3. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2008/02/22	2009/02/21
Temperature Chamber	TMJ-9712	T MACHINE	T-12-040111	2008/01/15	2009/01/14
DC Power Supply	GPD-3030	GM	7020936	N/A	N/A
AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A	N/A

9.4. Test Result and Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9704	-0.000565	5239.9632	-0.000702	5239.9887	-0.000216
	110	5239.9522	-0.000912	5239.9831	-0.000323	5239.9217	-0.001494
	126.5	5239.9784	-0.000412	5239.9751	-0.000475	5239.9952	-0.000092
40	93.5	5239.9775	-0.000429	5239.9953	-0.000090	5240.0247	0.000471
	110	5239.9546	-0.000866	5240.0002	0.000004	5239.98231	-0.000338
	126.5	5239.9723	-0.000529	5239.9770	-0.000439	5239.9833	-0.000319
30	93.5	5239.9737	-0.000502	5240.0011	0.000021	5239.9761	-0.000456
	110	5239.9706	-0.000561	5240.0254	0.000485	5239.9831	-0.000323
	126.5	5239.9822	-0.000340	5240.0112	0.000214	5239.9868	-0.000252
20	93.5	5240.0043	0.000082	5240.0032	0.000061	5240.0024	0.000046
	110	5240.0032	0.000061	5239.9988	-0.000023	5240.0084	0.000160
	126.5	5240.0153	0.000292	5240.0121	0.000231	5239.9478	-0.000996
10	93.5	5240.0077	0.000147	5240.0066	0.000126	5240.0048	0.000092
	110	5240.0037	0.000071	5239.9682	-0.000607	5240.0212	0.000405
	126.5	5240.0043	0.000082	5240.0132	0.000252	5239.9928	-0.000137
0	93.5	5239.9871	-0.000246	5239.9899	-0.000193	5239.9186	-0.001553
	110	5239.9773	-0.000433	5239.9601	-0.000761	5239.9188	-0.001550
	126.5	5239.9153	-0.001616	5239.9784	-0.000412	5239.9202	-0.001523
-10	93.5	5240.0109	0.000208	5239.9985	-0.000029	5240.0026	0.000050
	110	5240.0173	0.000330	5240.0107	0.000204	5240.0102	0.000195
	126.5	5239.9944	-0.000107	5239.9984	-0.000030	5239.9754	-0.000469
-20	93.5	5240.0154	0.000294	5240.0220	0.000420	5240.0123	0.000235
	110	5240.0087	0.000166	5240.0100	0.000191	5240.0054	0.000103
	126.5	5240.0002	0.000004	5240.0104	0.000198	5240.0023	0.000044
-30	93.5	5240.0086	0.000164	5240.0073	0.000139	5240.0012	0.000023
	110	5240.0304	0.000580	5240.0004	0.000008	5240.0095	0.000181
	126.5	5240.0101	0.000193	5240.0033	0.000063	5240.0105	0.000200

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-M Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9825	-0.000334	5239.9611	-0.000742	5239.9733	-0.000510
	110	5239.9524	-0.000908	5239.9732	-0.000511	5239.9825	-0.000334
	126.5	5239.9784	-0.000412	5239.9567	-0.000826	5239.9812	-0.000359
40	93.5	5239.9774	-0.000431	5239.9703	-0.000567	5240.0102	0.000195
	110	5239.9546	-0.000866	5240.0241	0.000460	5239.9822	-0.000340
	126.5	5239.9723	-0.000529	5239.9757	-0.000464	5239.9951	-0.000094
30	93.5	5239.9737	-0.000502	5240.0011	0.000021	5239.9732	-0.000511
	110	5239.9706	-0.000561	5240.1220	0.002328	5239.9785	-0.000410
	126.5	5239.9844	-0.000298	5240.0818	0.001561	5239.9668	-0.000634
20	93.5	5240.0211	0.000403	5240.0023	0.000044	5240.0021	0.000040
	110	5240.0032	0.000061	5239.9954	-0.000088	5240.0114	0.000218
	126.5	5240.0223	0.000426	5240.0002	0.000004	5239.9884	-0.000221
10	93.5	5240.0077	0.000147	5240.0064	0.000122	5240.0048	0.000092
	110	5240.0015	0.000029	5239.9665	-0.000639	5240.0212	0.000405
	126.5	5240.0043	0.000082	5240.0101	0.000193	5239.9928	-0.000137
0	93.5	5239.9491	-0.000971	5239.9178	-0.001569	5239.9384	-0.001176
	110	5239.9773	-0.000433	5239.9102	-0.001714	5239.9983	-0.000032
	126.5	5239.9153	-0.001616	5239.9785	-0.000410	5239.9754	-0.000469
-10	93.5	5240.0104	0.000198	5239.9877	-0.000235	5240.0011	0.000021
	110	5240.0173	0.000330	5240.0003	0.000006	5240.0125	0.000239
	126.5	5239.9847	-0.000292	5239.9224	-0.001481	5239.9958	-0.000080
-20	93.5	5240.0133	0.000254	5240.0201	0.000384	5240.0114	0.000218
	110	5240.0049	0.000094	5240.0105	0.000200	5240.0102	0.000195
	126.5	5240.0057	0.000109	5240.0104	0.000198	5240.0007	0.000013
-30	93.5	5240.0085	0.000162	5240.0073	0.000139	5240.0011	0.000021
	110	5240.0304	0.000580	5240.0003	0.000006	5240.0025	0.000048
	126.5	5240.0100	0.000191	5240.033	0.000630	5240.0161	0.000307

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-R Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9744	-0.000489	5239.9713	-0.000548	5239.9837	-0.000311
	110	5239.9583	-0.000796	5239.9839	-0.000307	5239.9653	-0.000662
	126.5	5239.9855	-0.000277	5239.9667	-0.000635	5239.9702	-0.000569
40	93.5	5239.9590	-0.000783	5239.9803	-0.000376	5240.1837	0.003506
	110	5239.9695	-0.000581	5240.1140	0.002176	5239.9702	-0.000569
	126.5	5239.9956	-0.000085	5239.9879	-0.000231	5239.9713	-0.000548
30	93.5	5239.9352	-0.001237	5240.0031	0.000059	5239.9619	-0.000727
	110	5239.9557	-0.000845	5240.1792	0.003420	5239.9808	-0.000366
	126.5	5239.9958	-0.000079	5240.0819	0.001563	5239.9768	-0.000443
20	93.5	5240.0031	0.000059	5240.0057	0.000109	5240.0032	0.000061
	110	5240.0332	0.000634	5239.9859	-0.000269	5240.1518	0.002897
	126.5	5240.0487	0.000929	5240.0101	0.000193	5239.9478	-0.000996
10	93.5	5240.0531	0.001013	5240.0164	0.000313	5240.0148	0.000282
	110	5240.0021	0.000040	5239.9576	-0.000809	5240.0312	0.000595
	126.5	5240.0295	0.000563	5240.0201	0.000384	5239.9224	-0.001481
0	93.5	5239.9847	-0.000292	5239.9278	-0.001378	5239.9183	-0.001559
	110	5239.9358	-0.001225	5239.9236	-0.001458	5239.9122	-0.001676
	126.5	5239.9365	-0.001212	5239.9822	-0.000340	5239.9294	-0.001347
-10	93.5	5240.0444	0.000847	5239.9360	-0.001221	5240.0013	0.000025
	110	5240.0222	0.000424	5240.0103	0.000197	5240.0102	0.000195
	126.5	5239.9998	-0.000004	5239.9257	-0.001418	5239.9736	-0.000504
-20	93.5	5240.0221	0.000422	5240.0320	0.000611	5240.0117	0.000223
	110	5240.0011	0.000021	5240.0201	0.000384	5240.0102	0.000195
	126.5	5240.0121	0.000231	5240.0204	0.000389	5240.0224	0.000427
-30	93.5	5240.0654	0.001248	5240.0073	0.000139	5240.0211	0.000403
	110	5240.0880	0.001679	5240.0110	0.000210	5240.0122	0.000233
	126.5	5240.0247	0.000471	5240.0113	0.000216	5240.0161	0.000307

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 2: 802.11an, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-L Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9705	-0.000562	5239.9833	-0.000319	5239.9987	-0.000025
	110	5239.9746	-0.000485	5239.9952	-0.000092	5239.9745	-0.000487
	126.5	5239.9784	-0.000412	5239.9766	-0.000447	5239.9835	-0.000315
40	93.5	5239.9773	-0.000433	5239.9706	-0.000561	5240.0058	0.000111
	110	5239.9767	-0.000445	5240.0140	0.000267	5239.9625	-0.000716
	126.5	5239.9944	-0.000107	5239.9775	-0.000429	5239.9875	-0.000239
30	93.5	5239.9959	-0.000078	5240.0014	0.000027	5239.9685	-0.000601
	110	5239.9908	-0.000176	5240.0580	0.001107	5239.9788	-0.000405
	126.5	5239.9885	-0.000219	5240.0833	0.001590	5239.9656	-0.000656
20	93.5	5240.0011	0.000021	5240.0028	0.000053	5240.0032	0.000061
	110	5240.0002	0.000004	5239.9965	-0.000067	5240.0284	0.000542
	126.5	5240.0073	0.000139	5240.0088	0.000168	5239.9889	-0.000212
10	93.5	5240.0147	0.000281	5240.0065	0.000124	5240.0059	0.000113
	110	5240.0032	0.000061	5239.9682	-0.000607	5240.0013	0.000025
	126.5	5240.0048	0.000092	5240.0102	0.000195	5239.9833	-0.000319
0	93.5	5239.9995	-0.000010	5239.9853	-0.000281	5239.9498	-0.000958
	110	5239.9773	-0.000433	5239.9632	-0.000702	5239.9385	-0.001174
	126.5	5239.9394	-0.001156	5239.9977	-0.000044	5239.9202	-0.001523
-10	93.5	5240.0105	0.000200	5239.9462	-0.001027	5240.0115	0.000219
	110	5240.0173	0.000330	5240.0201	0.000384	5240.0102	0.000195
	126.5	5239.9873	-0.000242	5239.9985	-0.000029	5239.9736	-0.000504
-20	93.5	5240.0022	0.000042	5240.0201	0.000384	5240.0117	0.000223
	110	5240.0087	0.000166	5240.0110	0.000210	5240.0135	0.000258
	126.5	5240.0092	0.000176	5240.0104	0.000198	5240.0224	0.000427
-30	93.5	5240.0085	0.000162	5240.0073	0.000139	5240.0088	0.000168
	110	5240.0304	0.000580	5240.0051	0.000097	5240.0720	0.001374
	126.5	5240.0105	0.000200	5240.0033	0.000063	5240.0165	0.000315

Limit :

> Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 3: 802.11an, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-L
Operating frequency: 5230   MHz

Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5230.2215	0.004235	5230.0352	0.000673	5230.0258	0.000493
	110	5230.0135	0.000258	5230.0351	0.000671	5230.0114	0.000218
	126.5	5229.9895	-0.000201	5230.0155	0.000296	5230.0231	0.000442
40	93.5	5229.9755	-0.000468	5230.0286	0.000547	5230.0026	0.000050
	110	5229.9788	-0.000405	5230.0765	0.001463	5229.9811	-0.000361
	126.5	5229.9684	-0.000604	5230.0522	0.000998	5229.9821	-0.000342
30	93.5	5229.9922	-0.000149	5230.0315	0.000602	5229.9821	-0.000342
	110	5229.9637	-0.000694	5230.1701	0.003252	5229.9899	-0.000193
	126.5	5229.9785	-0.000411	5230.0051	0.000098	5229.9589	-0.000786
20	93.5	5230.0014	0.000027	5230.0053	0.000101	5230.0011	0.000021
	110	5230.0051	0.000098	5230.0247	0.000472	5230.0659	0.001260
	126.5	5230.0014	0.000027	5230.0022	0.000042	5229.9489	-0.000977
10	93.5	5230.0118	0.000226	5230.0058	0.000111	5230.0159	0.000304
	110	5230.0008	0.000015	5230.0379	0.000725	5230.0293	0.000560
	126.5	5230.0015	0.000029	5230.0032	0.000061	5230.0279	0.000533
0	93.5	5229.9289	-0.001359	5230.0372	0.000711	5230.0327	0.000625
	110	5229.9884	-0.000222	5230.0267	0.000511	5230.0094	0.000180
	126.5	5230.0064	0.000122	5230.0335	0.000641	5230.9803	0.018744
-10	93.5	5230.0002	0.000004	5230.0345	0.000660	5230.0011	0.000021
	110	5230.0053	0.000101	5230.0257	0.000491	5229.9713	-0.000549
	126.5	5229.9887	-0.000216	5230.0339	0.000648	5229.9547	-0.000866
-20	93.5	5230.0122	0.000233	5230.0325	0.000621	5230.0128	0.000245
	110	5230.0039	0.000075	5230.0189	0.000361	5230.0413	0.000790
	126.5	5230.0025	0.000048	5230.0056	0.000107	5230.0002	0.000004
-30	93.5	5230.0083	0.000159	5230.0084	0.000161	5230.0022	0.000042
	110	5230.0110	0.000210	5230.0037	0.000071	5230.0008	0.000015
	126.5	5230.0155	0.000296	5230.0023	0.000044	5230.0172	0.000329

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 4: 802.11an, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-M + ANT-L Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9875	-0.000239	5239.9814	-0.000355	5239.9775	-0.000429
	110	5239.9895	-0.000200	5239.9835	-0.000315	5239.9836	-0.000313
	126.5	5239.9784	-0.000412	5239.9789	-0.000403	5239.9702	-0.000569
40	93.5	5239.9994	-0.000011	5239.9934	-0.000126	5240.1713	0.003269
	110	5239.9572	-0.000817	5240.0222	0.000424	5239.9825	-0.000334
	126.5	5239.9745	-0.000487	5239.9844	-0.000298	5239.9876	-0.000237
30	93.5	5239.9959	-0.000078	5240.0011	0.000021	5239.9657	-0.000655
	110	5239.9938	-0.000118	5240.0612	0.001168	5239.9985	-0.000029
	126.5	5239.9945	-0.000105	5240.0916	0.001748	5239.9688	-0.000595
20	93.5	5240.0043	0.000082	5240.0004	0.000008	5240.0032	0.000061
	110	5240.0033	0.000063	5239.9755	-0.000468	5240.0418	0.000798
	126.5	5240.0053	0.000101	5240.0021	0.000040	5239.9378	-0.001187
10	93.5	5240.0084	0.000160	5240.0064	0.000122	5240.0048	0.000092
	110	5240.0037	0.000071	5239.9698	-0.000576	5240.0212	0.000405
	126.5	5240.0046	0.000088	5240.0133	0.000254	5239.9899	-0.000193
0	93.5	5239.9855	-0.000277	5239.9876	-0.000237	5239.9567	-0.000826
	110	5239.9773	-0.000433	5239.9627	-0.000712	5239.9754	-0.000469
	126.5	5239.9876	-0.000237	5239.9784	-0.000412	5239.9531	-0.000895
-10	93.5	5240.0014	0.000027	5239.9998	-0.000004	5240.0015	0.000029
	110	5240.0173	0.000330	5240.0024	0.000046	5240.0120	0.000229
	126.5	5239.9814	-0.000355	5239.9985	-0.000029	5239.9977	-0.000044
-20	93.5	5240.0136	0.000260	5240.0208	0.000397	5240.0122	0.000232
	110	5240.0088	0.000168	5240.0115	0.000219	5240.0180	0.000343
	126.5	5240.0098	0.000188	5240.0104	0.000198	5240.0054	0.000103
-30	93.5	5240.0085	0.000162	5240.0073	0.000139	5240.0970	0.001851
	110	5240.0304	0.000580	5240.0002	0.000004	5240.0002	0.000004
	126.5	5240.0108	0.000206	5240.0035	0.000067	5240.0184	0.000351

Limit :

   Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Test Mode 5: 802.11an, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-M + ANT-L Operating frequency: 5230 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5230.0215	0.000411	5230.0022	0.000042	5230.0237	0.000453
	110	5230.0335	0.000641	5230.0041	0.000078	5230.0342	0.000654
	126.5	5230.0195	0.000373	5230.0198	0.000379	5230.0011	0.000021
40	93.5	5230.0185	0.000354	5230.0374	0.000715	5230.0106	0.000203
	110	5230.0357	0.000683	5230.0025	0.000048	5229.9871	-0.000247
	126.5	5230.0234	0.000447	5230.0198	0.000379	5229.9841	-0.000304
30	93.5	5230.0248	0.000474	5230.0012	0.000023	5229.9931	-0.000132
	110	5230.0117	0.000224	5230.0301	0.000576	5229.9759	-0.000461
	126.5	5230.0055	0.000105	5230.0231	0.000442	5229.9869	-0.000250
20	93.5	5229.9654	-0.000662	5230.0001	0.000002	5230.0021	0.000040
	110	5229.9641	-0.000686	5229.9967	-0.000063	5230.0029	0.000055
	126.5	5229.9964	-0.000069	5230.0084	0.000161	5229.9889	-0.000212
10	93.5	5229.9847	-0.000293	5230.0017	0.000033	5230.0059	0.000113
	110	5229.9855	-0.000277	5229.9847	-0.000293	5230.0123	0.000235
	126.5	5229.0028	-0.019067	5230.0102	0.000195	5229.9812	-0.000359
0	93.5	5230.0089	0.000170	5229.9584	-0.000795	5229.9797	-0.000388
	110	5230.0582	0.001113	5229.9798	-0.000386	5229.9794	-0.000394
	126.5	5230.0146	0.000279	5229.9884	-0.000222	5229.9803	-0.000377
-10	93.5	5230.0011	0.000021	5229.9567	-0.000828	5230.0012	0.000023
	110	5230.0136	0.000260	5230.0038	0.000073	5230.0413	0.000790
	126.5	5229.9875	-0.000239	5229.9744	-0.000489	5229.9847	-0.000293
-20	93.5	5230.0122	0.000233	5230.0129	0.000247	5230.0128	0.000245
	110	5230.0017	0.000033	5230.0023	0.000044	5230.0203	0.000388
	126.5	5230.0104	0.000199	5230.0122	0.000233	5230.0032	0.000061
-30	93.5	5230.0092	0.000176	5230.0073	0.000140	5230.0222	0.000424
	110	5230.0115	0.000220	5230.0012	0.000023	5230.0008	0.000015
	126.5	5230.0311	0.000595	5230.0044	0.000084	5230.0172	0.000329

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10. Band Edges Measurement

10.1. Test Procedure

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

10.2. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2007/01/23	2008/01/22
Horn Antenna	3115	EMCO	31589	2007/03/05	2008/03/04
Horn Antenna	3116	EMCO	31970	2007/03/06	2008/03/05
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/26	2008/04/25
Amplifier	8449B	Agilent	3008A01954	2007/01/12	2008/01/11
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25
Amplifier	PA-840	Com-Power	711885	2007/08/28	2008/08/27

10.3. Test Result and Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-L

Test Date: May. 05, 2008 Temperature: 20　Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
36	5180	5149.00	-48.79

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-M

Test Date: May. 05, 2008 Temperature: 20　Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
36	5180	5098.20	-49.40

Test Mode 1: 802.11a, Transmit Rate: 6Mbps, ANT-R

Test Date: May. 05, 2008 Temperature: 20　Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
36	5180	5135.60	-44.56

Test Mode 2: 802.11, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-L

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)	Antenna Remarks
36	5180	5149.00	-37.77	R
36	5180	5146.80	-36.63	L

Test Mode 3: 802.11, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-L

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)	Antenna Remarks
36	5180	5099.20	-48.80	R
36	5180	5147.00	-49.00	L

Test Mode 4: 802.11, HT20, Transmit Rate: 6.5Mbps, ANT-R + ANT-M + ANT-L

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)	Antenna Remarks
38	5190	5106.00	-44.12	R
38	5190	5138.40	-44.36	M
38	5190	5102.60	-43.55	L

Test Mode 5: 802.11, HT40, Transmit Rate: 13.5Mbps, ANT-R + ANT-M + ANT-L

Test Date: May. 05, 2008 Temperature: 20   Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)	Antenna Remarks
38	5190	5146.80	-37.98	R
38	5190	5146.40	-38.13	M
38	5190	5146.20	-36.92	L

Modulation Standard: 802.11a (6Mbps) – ANT-L
Channel: 36
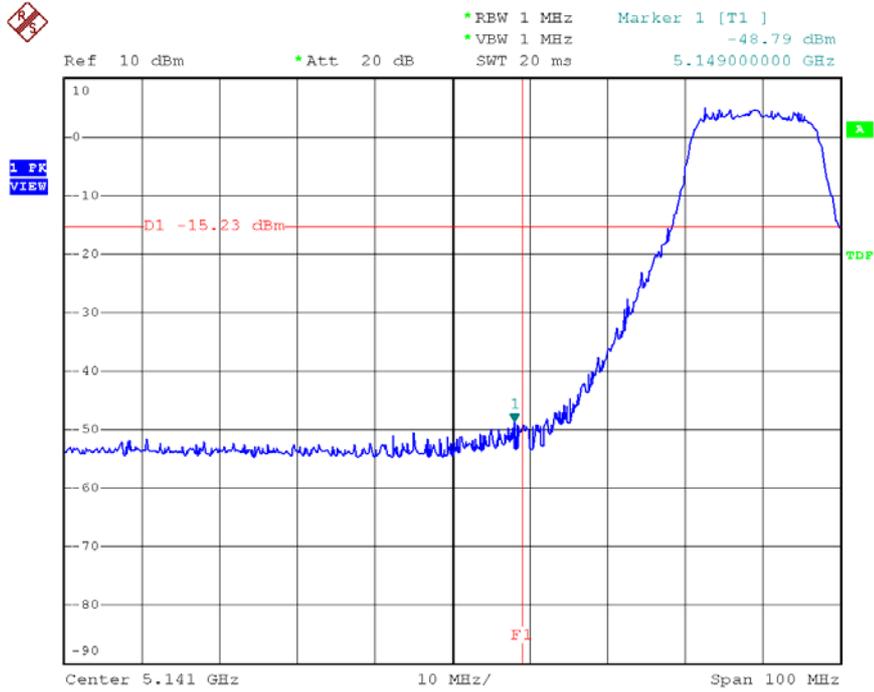
Date: 28.MAR.2008 13:24:04

Modulation Standard: 802.11a (6Mbps) – ANT-M
Channel: 36
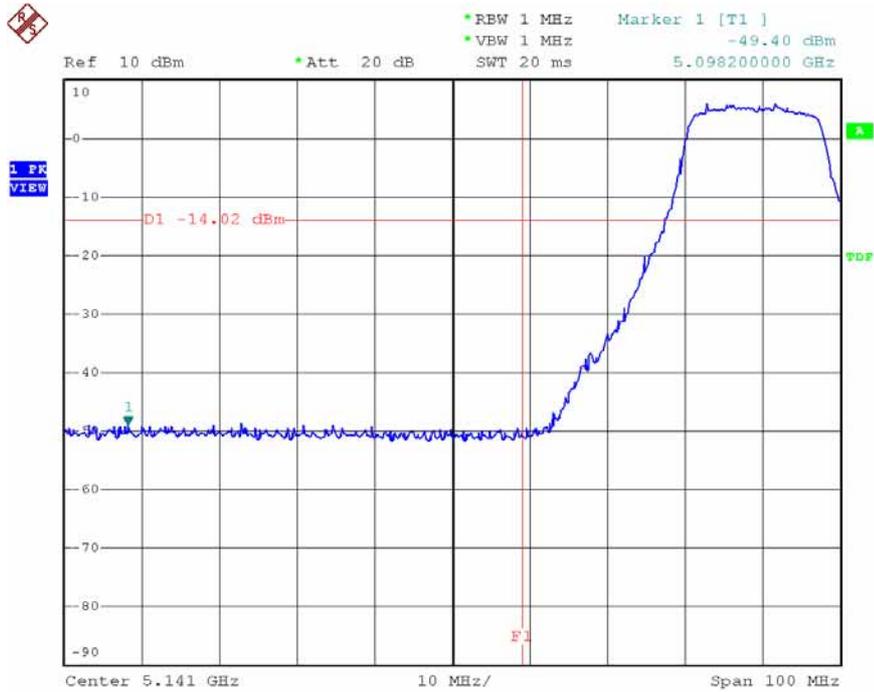
Date: 1.MAY.2008 18:34:29

Modulation Standard: 802.11a (6Mbps) – ANT-R
Channel: 36
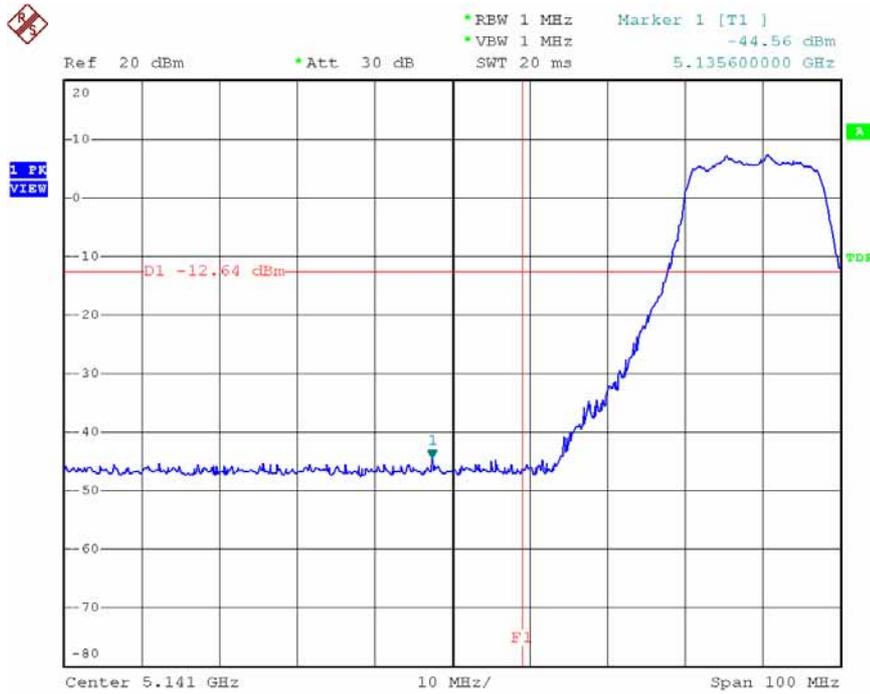
Date: 1.MAY.2008 19:24:23

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36
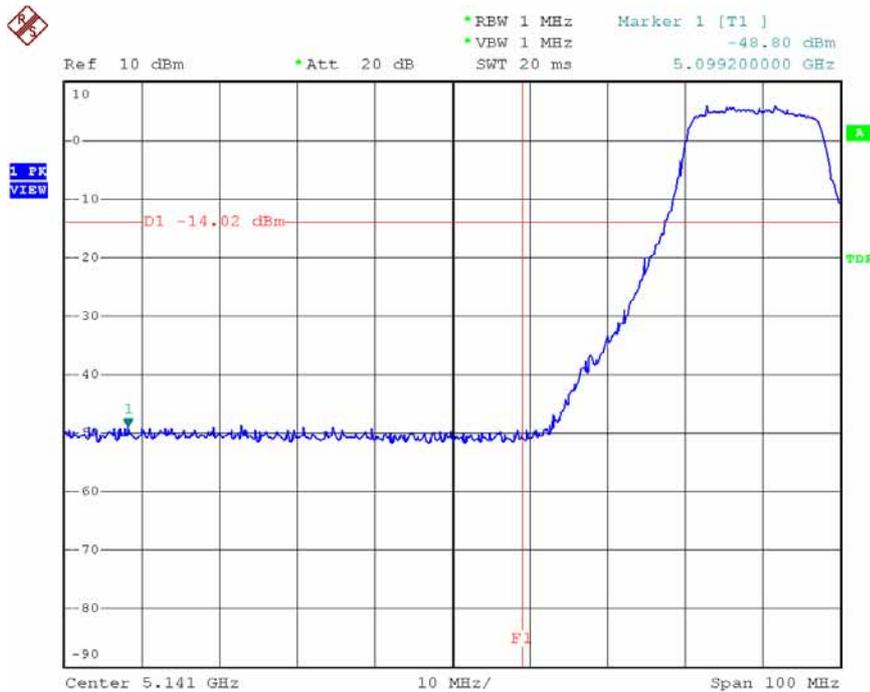
Date: 1.MAY.2008 18:34:29

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36
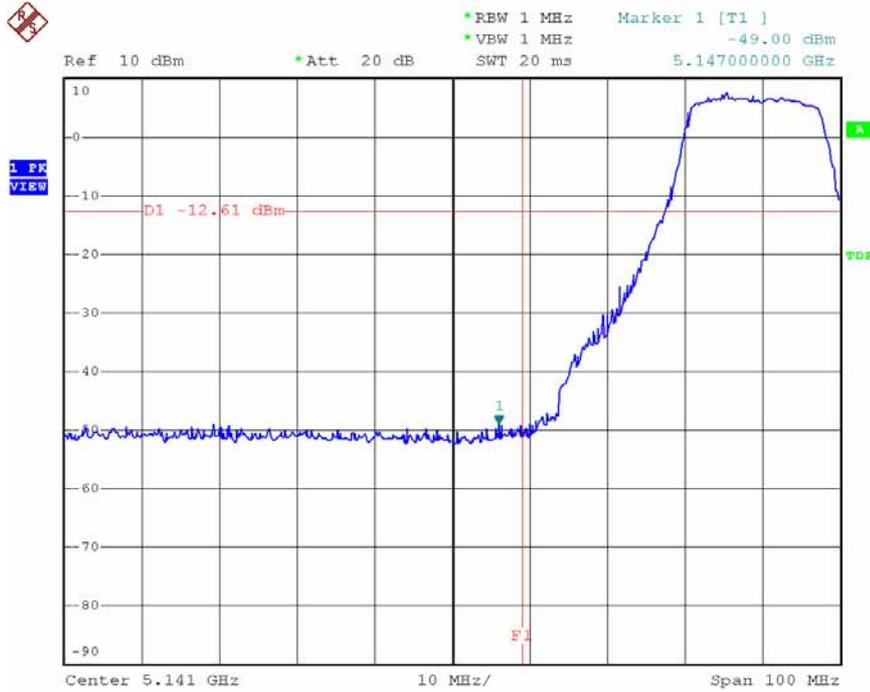
Date: 1.MAY.2008   18:33:23

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38
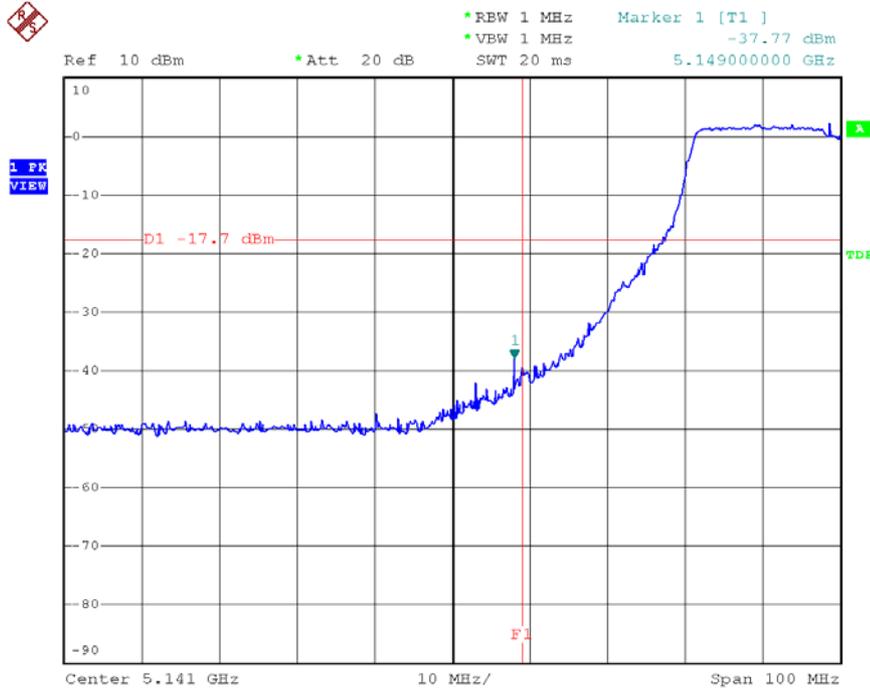
Date: 1.MAY.2008   20:01:58

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 38
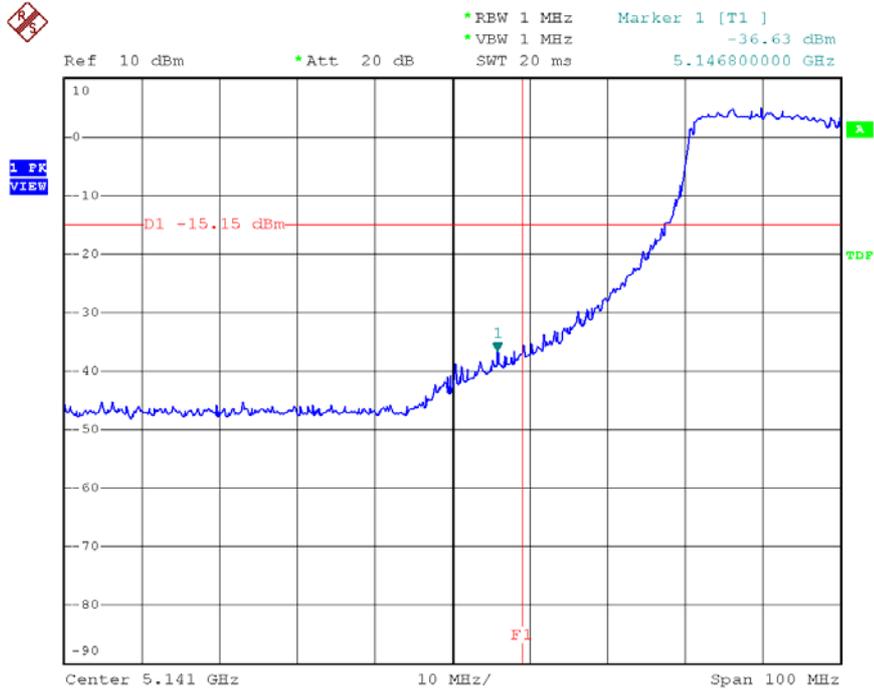
Date: 1.MAY.2008 20:01:18

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-R
Channel: 36
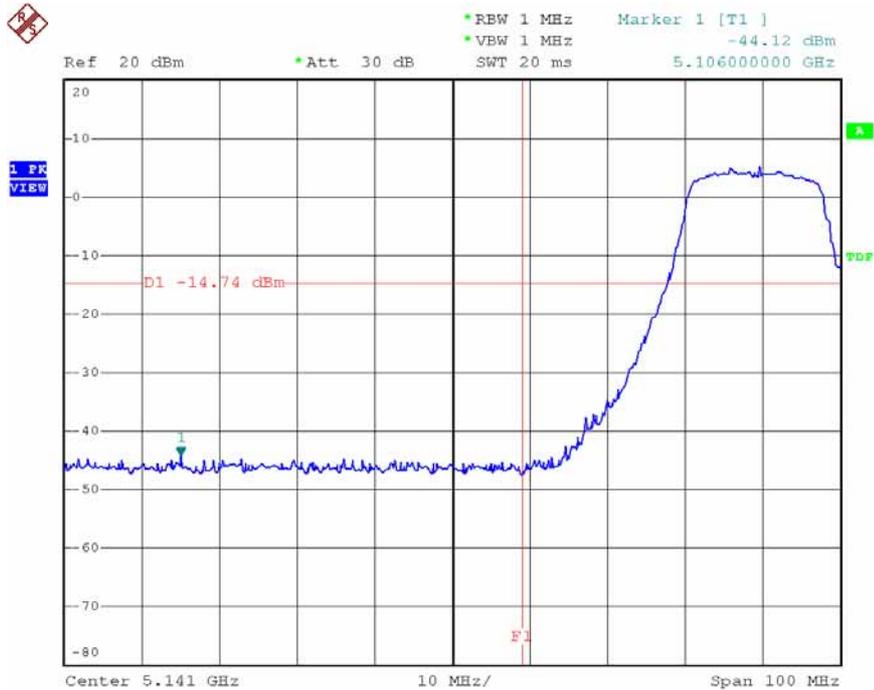
Date: 1.MAY.2008 19:25:11

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-M
Channel: 36
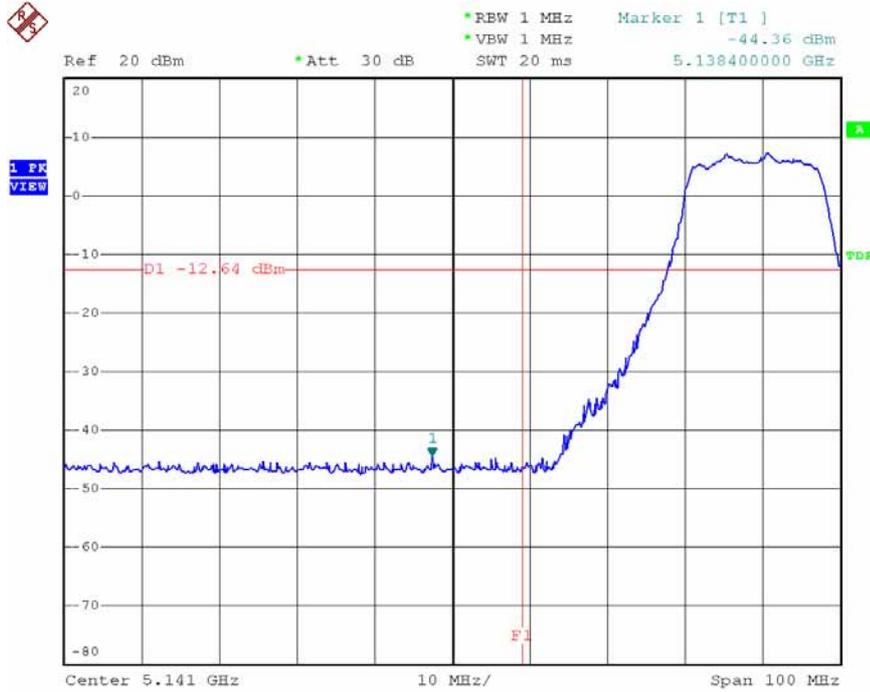
Date: 1.MAY.2008 19:24:23

Modulation Standard: 802.11an, HT20 (6.5Mbps) – ANT-L
Channel: 36
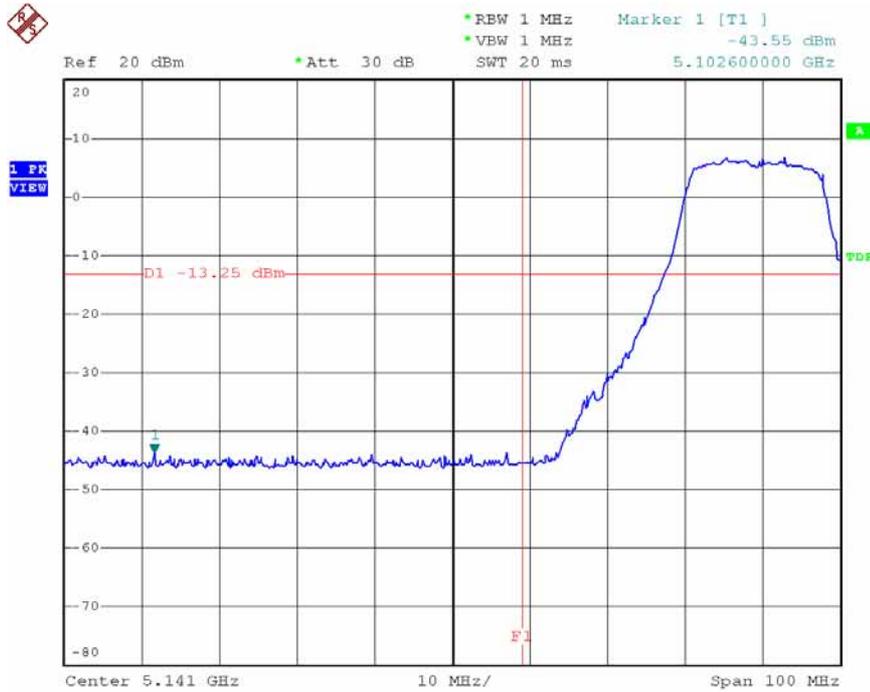
Date: 1.MAY.2008 19:23:07

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-R
Channel: 38
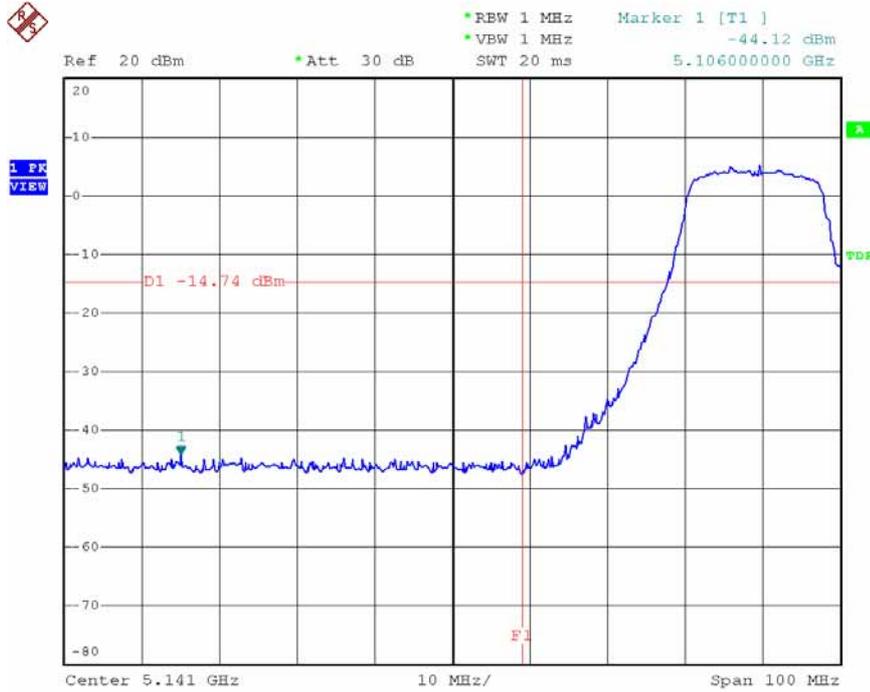
Date: 1.MAY.2008   19:25:11

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-M
Channel: 38
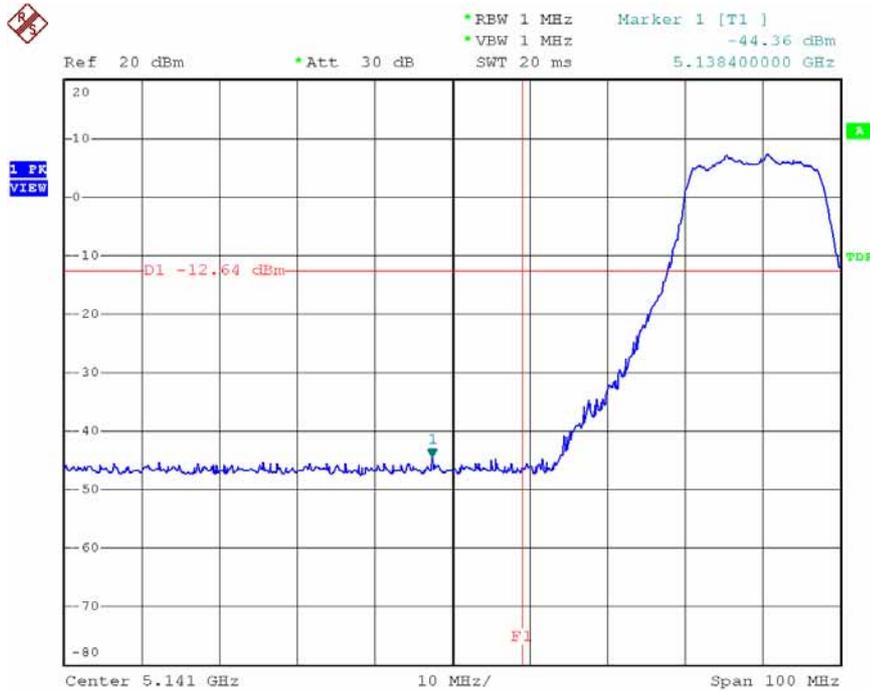
Date: 1.MAY.2008   19:24:23

Modulation Standard: 802.11an, HT40 (13.5Mbps) – ANT-L
Channel: 38
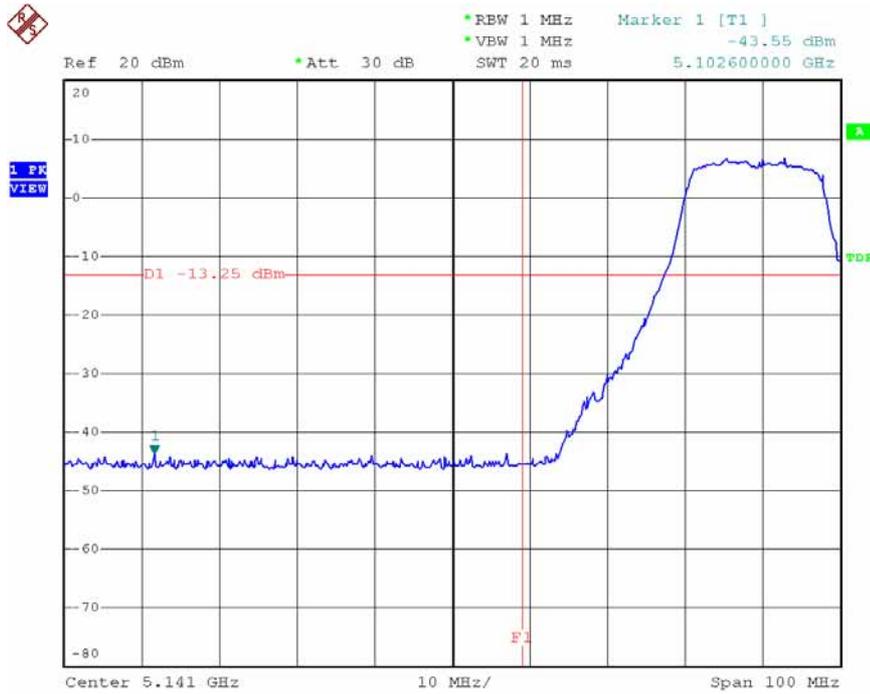
Date: 1.MAY.2008   19:23:07

10.4. Restrict Band Emission Measurement Data

Test Mode 1: 802.11a, Transmit Rate: 6Mbps
Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 01, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5113.70	H	47.26	5.03	52.29	Peak	74	54	-21.71	134	1.00
5146.40	H	35.52	5.09	40.61	Ave	74	54	-13.39	134	1.00
5148.40	V	49.72	5.10	54.82	Peak	74	54	-19.18	158	1.00
5146.70	V	37.88	5.09	42.97	Ave	74	54	-11.03	158	1.00

Test Mode 2: 802.11an, HT20, Transmit Rate: 6.5Mbps
Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 01, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5113.70	H	46.59	5.07	51.66	Peak	74	54	-22.34	134	1.00
5148.90	H	35.84	5.09	40.94	Ave	74	54	-13.00	134	1.00
5147.20	V	54.22	5.09	59.31	Peak	74	54	-14.69	158	1.00
5149.70	V	38.77	5.10	43.87	Ave	74	54	-10.13	158	1.00

Test Mode 3: 802.11an, HT40, Transmit Rate: 13.5Mbps
Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.60	5.09	52.69	Peak	74	54	-21.31	134	1.00
5149.90	H	36.72	5.10	41.82	Ave	74	54	-12.18	134	1.00
5147.20	V	62.59	5.09	67.68	Peak	74	54	-6.32	158	1.00
5149.90	V	45.88	5.10	50.98	Ave	74	54	-3.02	158	1.00

Test Mode 4: 802.11an, HT20, Transmit Rate: 6.5Mbps
Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5137.40	H	46.84	5.07	51.91	Peak	74	54	-22.09	134	1.00
5148.90	H	35.92	5.10	41.02	Ave	74	54	-12.98	134	1.00
5147.20	V	53.88	5.09	58.97	Peak	74	54	-15.03	158	1.00
5149.70	V	38.59	5.10	43.69	Ave	74	54	-10.31	158	1.00

Test Mode 5: 802.11an, HT40, Transmit Rate: 13.5Mbps
Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.66	5.09	52.75	Peak	74	54	-21.25	134	1.00
5149.90	H	36.10	5.10	41.20	Ave	74	54	-12.80	134	1.00
5147.20	V	62.84	5.09	67.93	Peak	74	54	-6.07	158	1.00
5149.90	V	45.56	5.10	50.66	Ave	74	54	-3.34	158	1.00

Test Mode 6: 802.11a, Transmit Rate: 6Mbps, ANT-L
Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5113.70	H	47.13	5.03	52.16	Peak	74	54	-21.84	134	1.00
5146.40	H	35.67	5.09	40.76	Ave	74	54	-13.24	134	1.00
5148.40	V	49.90	5.10	55.00	Peak	74	54	-19.00	158	1.00
5146.70	V	37.91	5.09	43.00	Ave	74	54	-11.00	158	1.00

Test Mode 7: 802.11an, HT20, Transmit Rate: 6.5Mbps
Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5137.40	H	46.75	5.07	51.83	Peak	74	54	-22.17	134	1.00
5148.90	H	35.66	5.10	40.76	Ave	74	54	-13.24	134	1.00
5147.20	V	54.13	5.09	59.22	Peak	74	54	-14.78	158	1.00
5149.70	V	38.22	5.10	43.32	Ave	74	54	-10.68	158	1.00

Test Mode 8: 802.11an, HT40, Transmit Rate: 13.5Mbps
Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.65	5.09	52.74	Peak	74	54	-21.36	134	1.00
5149.90	H	36.60	5.10	41.70	Ave	74	54	-12.30	134	1.00
5147.20	V	62.84	5.09	67.93	Peak	74	54	-6.07	158	1.00
5149.90	V	45.71	5.10	50.81	Ave	74	54	-3.19	158	1.00

Test Mode 9: 802.11an, HT20, Transmit Rate: 6.5Mbps
Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5137.40	H	46.52	5.07	51.59	Peak	74	54	-22.41	134	1.00
5148.90	H	35.52	5.10	40.62	Ave	74	54	-13.38	134	1.00
5147.20	V	54.29	5.09	59.38	Peak	74	54	-14.62	158	1.00
5149.70	V	39.00	5.10	44.10	Ave	74	54	-9.90	158	1.00

Test Mode 10: 802.11an, HT40, Transmit Rate: 13.5Mbps
Test Date: May. 02, 2008 Temperature: 25 Humidity: 65% Atmospheric pressure: 1020 hPa
Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.52	5.09	52.61	Peak	74	54	-21.39	134	1.00
5149.90	H	36.22	5.10	41.32	Ave	74	54	-12.68	134	1.00
5147.20	V	62.92	5.09	68.01	Peak	74	54	-5.99	158	1.00
5149.90	V	45.70	5.10	50.80	Ave	74	54	-3.20	158	1.00

Test Mode 11: 802.11a, Transmit Rate: 6Mbps, ANT-L

Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa

Channel 01, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5113.70	H	47.33	5.03	52.36	Peak	74	54	-21.64	134	1.00
5146.40	H	35.59	5.09	40.68	Ave	74	54	-13.32	134	1.00
5148.40	V	49.92	5.10	55.02	Peak	74	54	-18.98	158	1.00
5146.70	V	37.98	5.09	43.07	Ave	74	54	-10.93	158	1.00

Test Mode 12: 802.11an, HT20, Transmit Rate: 6.5Mbps

Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa

Channel 01, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5137.40	H	46.88	5.07	51.07	Peak	74	54	-22.93	134	1.00
5148.90	H	35.10	5.10	40.20	Ave	74	54	-13.80	134	1.00
5147.20	V	54.59	5.09	59.68	Peak	74	54	-14.32	158	1.00
5149.70	V	38.72	5.10	43.82	Ave	74	54	-10.18	158	1.00

Test Mode 13: 802.11an, HT40, Transmit Rate: 13.5Mbps

Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa

Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.59	5.09	52.68	Peak	74	54	-21.32	134	1.00
5149.90	H	36.50	5.10	41.60	Ave	74	54	-12.34	134	1.00
5147.20	V	62.54	5.09	67.63	Peak	74	54	-6.37	158	1.00
5149.90	V	45.69	5.10	50.79	Ave	74	54	-3.21	158	1.00

Test Mode 14: 802.11an, HT20, Transmit Rate: 6.5Mbps

Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa

Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5137.40	H	46.92	5.07	51.99	Peak	74	54	-22.01	134	1.00
5148.90	H	35.10	5.10	40.20	Ave	74	54	-13.80	134	1.00
5147.20	V	54.26	5.09	59.35	Peak	74	54	-14.65	158	1.00
5149.70	V	58.20	5.10	43.30	Ave	74	54	-10.70	158	1.00

Test Mode 15: 802.11an, HT40, Transmit Rate: 13.5Mbps

Test Date: May. 02, 2008 Temperature: 25   Humidity: 65% Atmospheric pressure: 1020 hPa

Channel 39, Fundamental Frequency: 5190 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
5143.70	H	47.40	5.09	52.49	Peak	74	54	-21.51	134	1.00
5149.90	H	36.30	5.10	41.40	Ave	74	54	-12.60	134	1.00
5147.20	V	62.70	5.09	67.79	Peak	74	54	-6.21	158	1.00
5149.90	V	45.59	5.10	50.69	Ave	74	54	-3.31	158	1.00

11. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

11.1. Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

12. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

RF Exposure Compliance

12.1. Limit for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time $|E|^2,|H|^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time $|E|^2,|H|^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F=frequency in MHz   *Plane-wave equivalent power density

12.2. MPE Calculations

E (V/m) $\dfrac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (mW/cm²) $\dfrac{E^2}{3770}$

E Electric field   (V/m)

P Peak output power   (W)

G Antenna numeric gain   (numeric)

d Separation distance   (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 10 W/m². We can change the formula to:

d $\sqrt{\dfrac{30 \times P \times G}{3770}}$

12.3. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. Proposed RF exposure safety information to include in User's Manual.