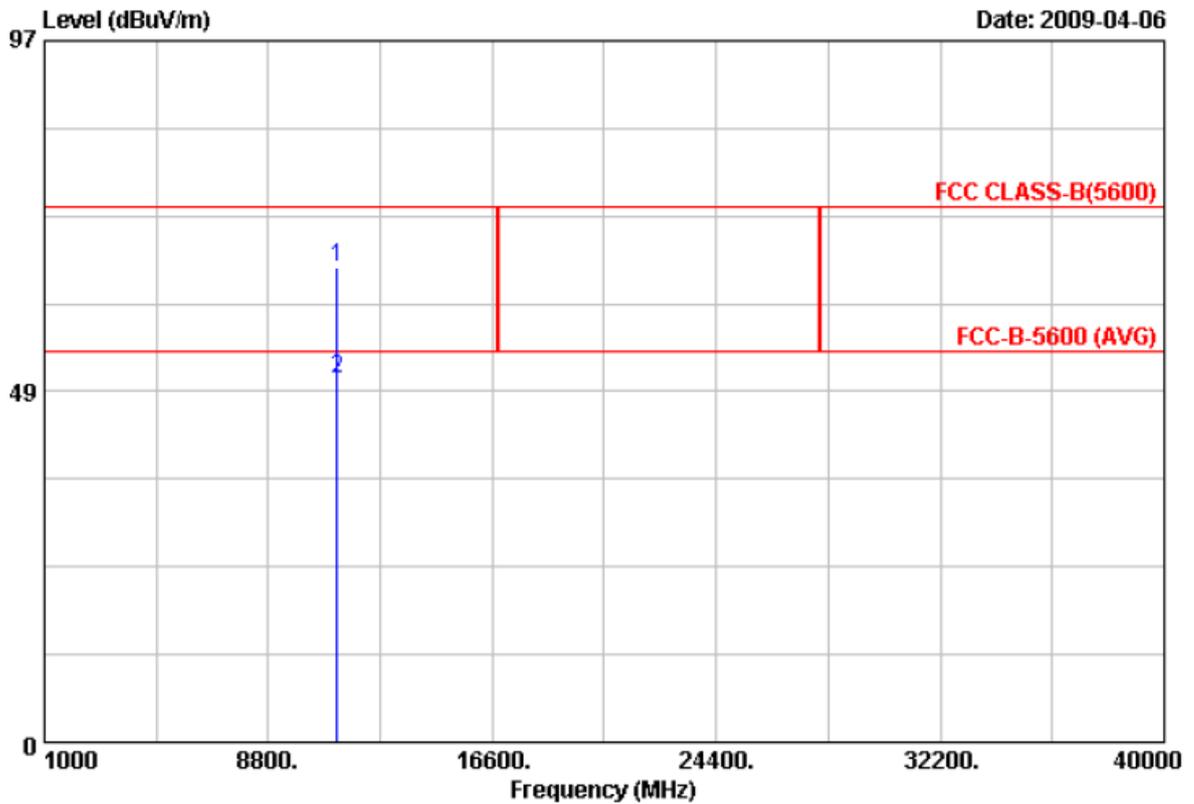




Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH120	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



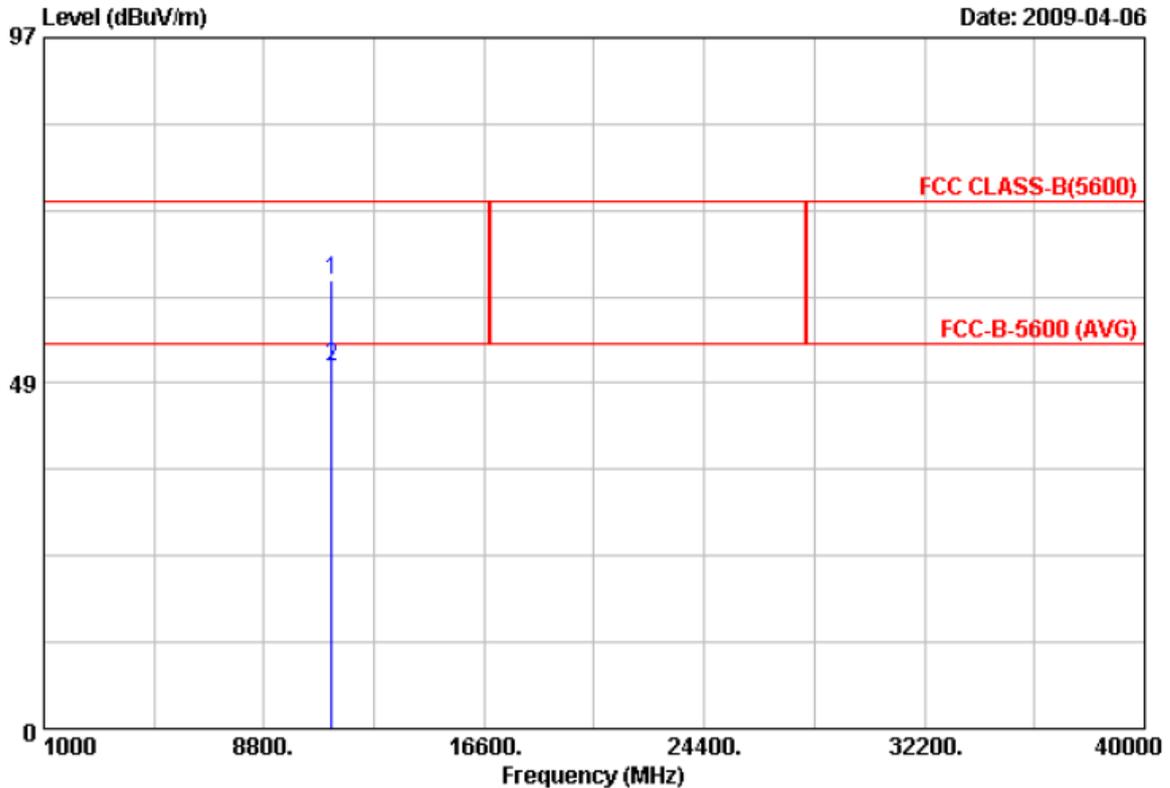
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11199.930	43.16	22.48	65.64	74.00	-8.36	Peak	100	0
2	11200.070	27.66	22.48	50.14	54.00	-3.86	Average	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH120	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



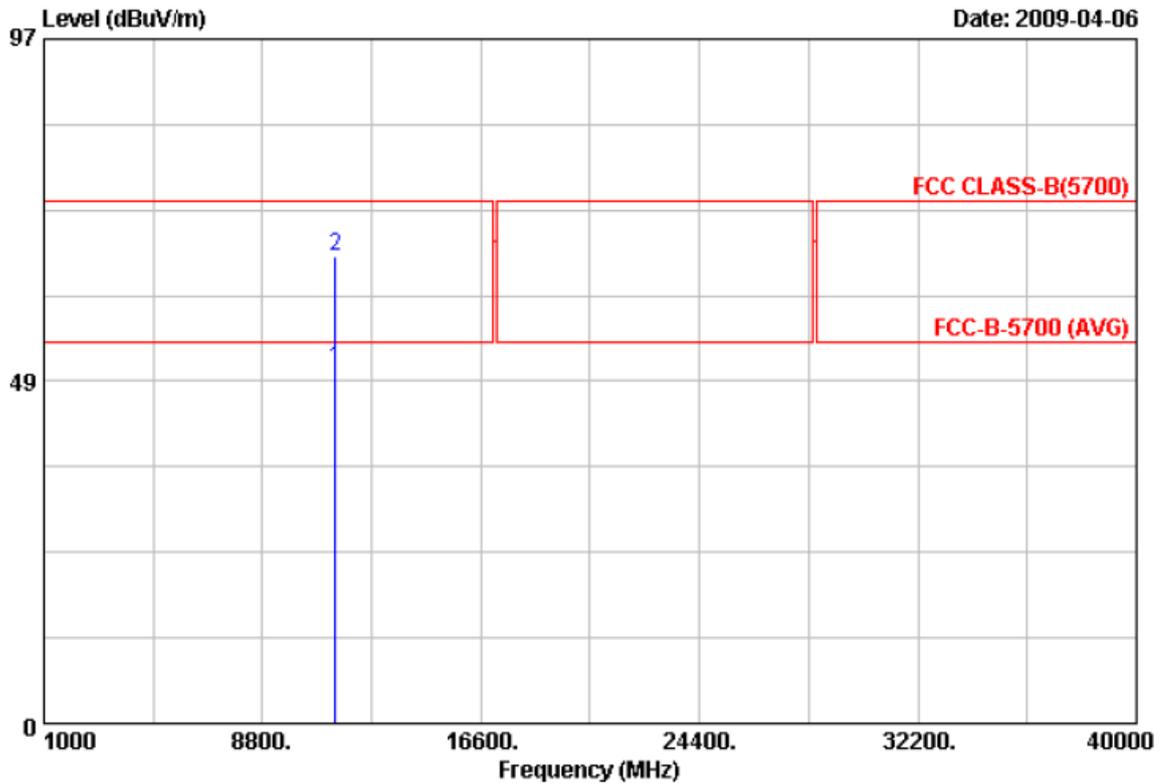
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11200.100	42.66	20.35	63.01	74.00	-10.99	Peak	100	0
2	11200.230	30.56	20.35	50.91	54.00	-3.09	Average	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT20, CH140	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



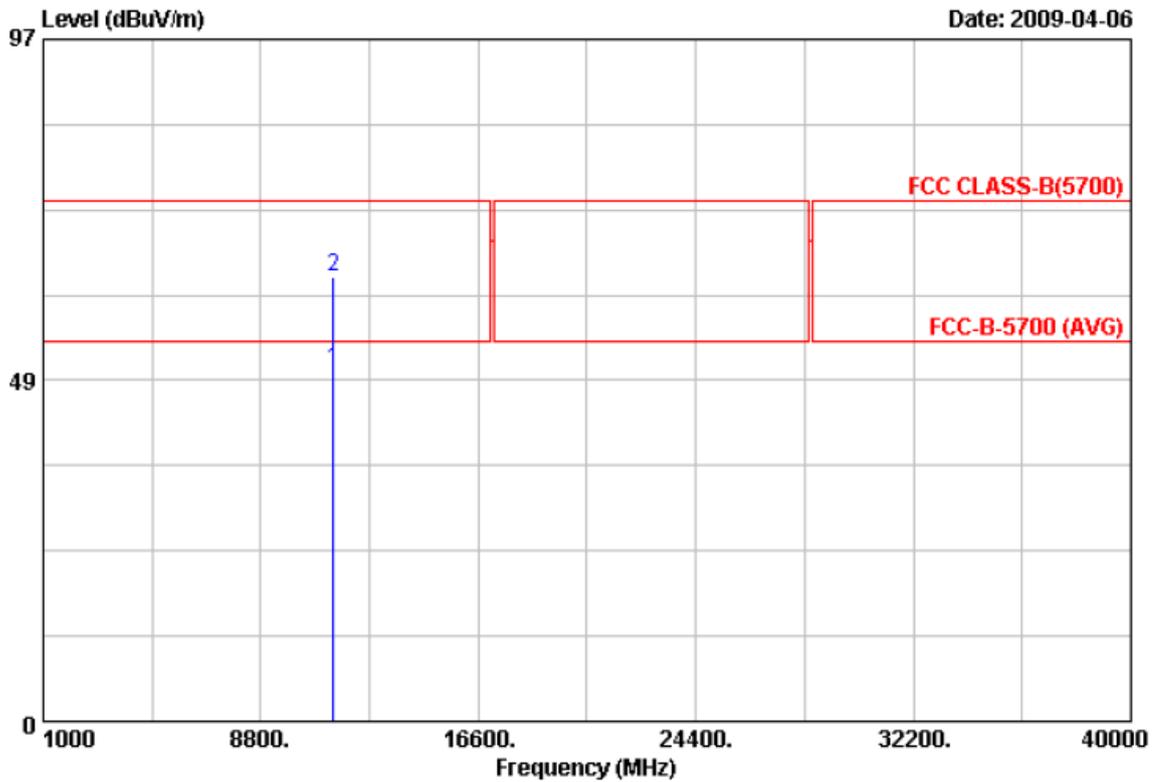
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11400.02	27.11	23.27	50.38	54.00	-3.62	Average	100	0
2	11400.07	42.81	23.27	66.08	74.00	-7.92	Peak	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT20, CH140	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



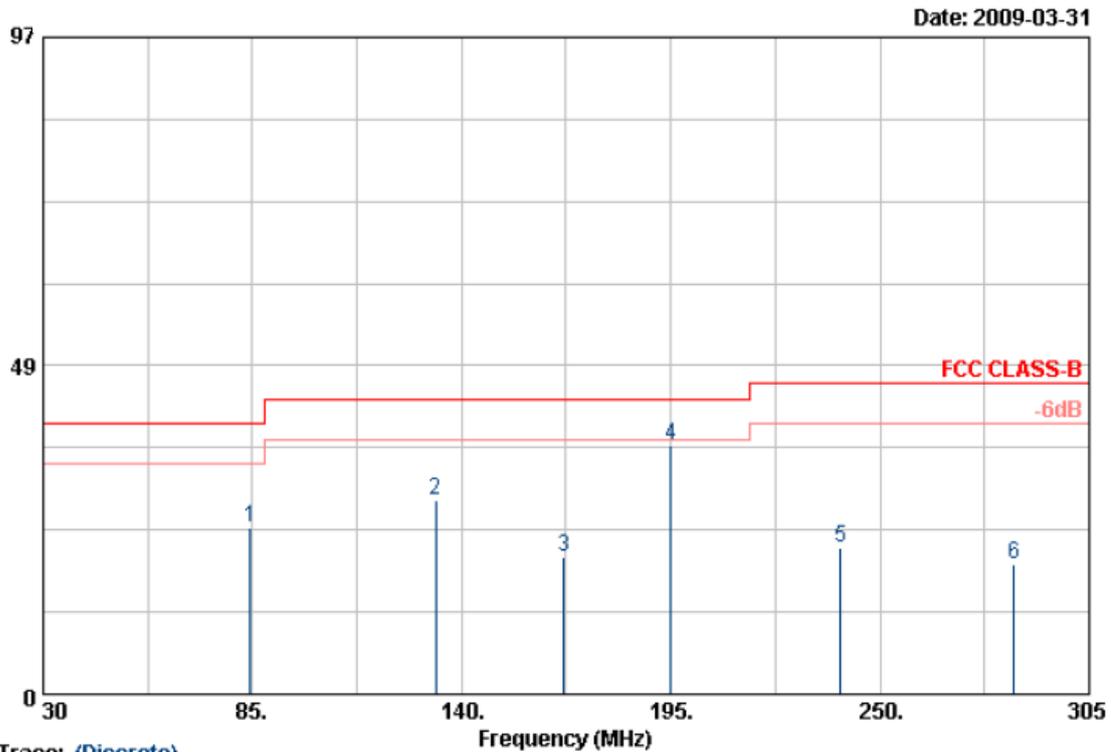
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11399.90	29.16	20.72	49.88	54.00	-4.12	Average	100	0
2	11400.02	42.56	20.72	63.28	74.00	-10.72	Peak	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 25 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

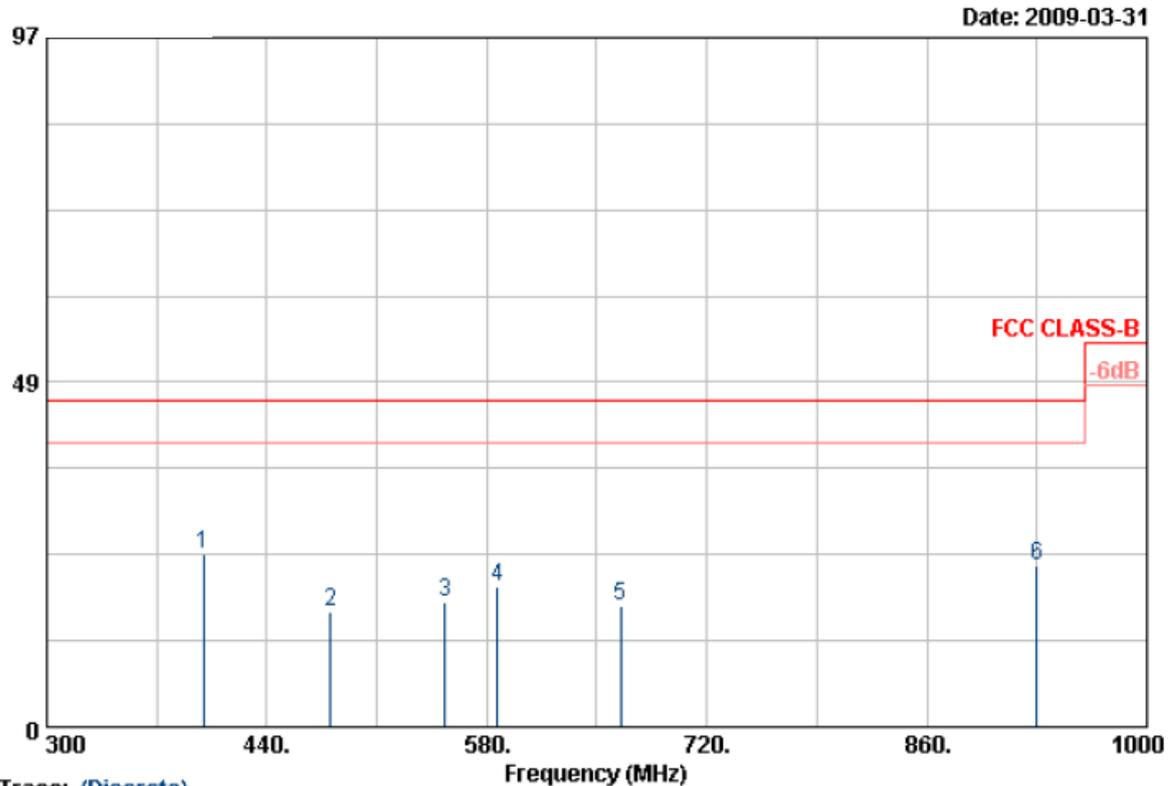
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	84.450	48.26	-23.81	24.45	40.00	-15.55	Peak	100	0
2	133.125	52.14	-23.55	28.59	43.50	-14.91	Peak	100	0
3	166.950	45.51	-25.28	20.23	43.50	-23.27	Peak	100	0
4	195.000	59.09	-22.44	36.65	43.50	-6.85	Peak	100	0
5	239.550	48.05	-26.41	21.64	46.00	-24.36	Peak	100	0
6	285.200	46.58	-27.34	19.24	46.00	-26.76	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 25 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

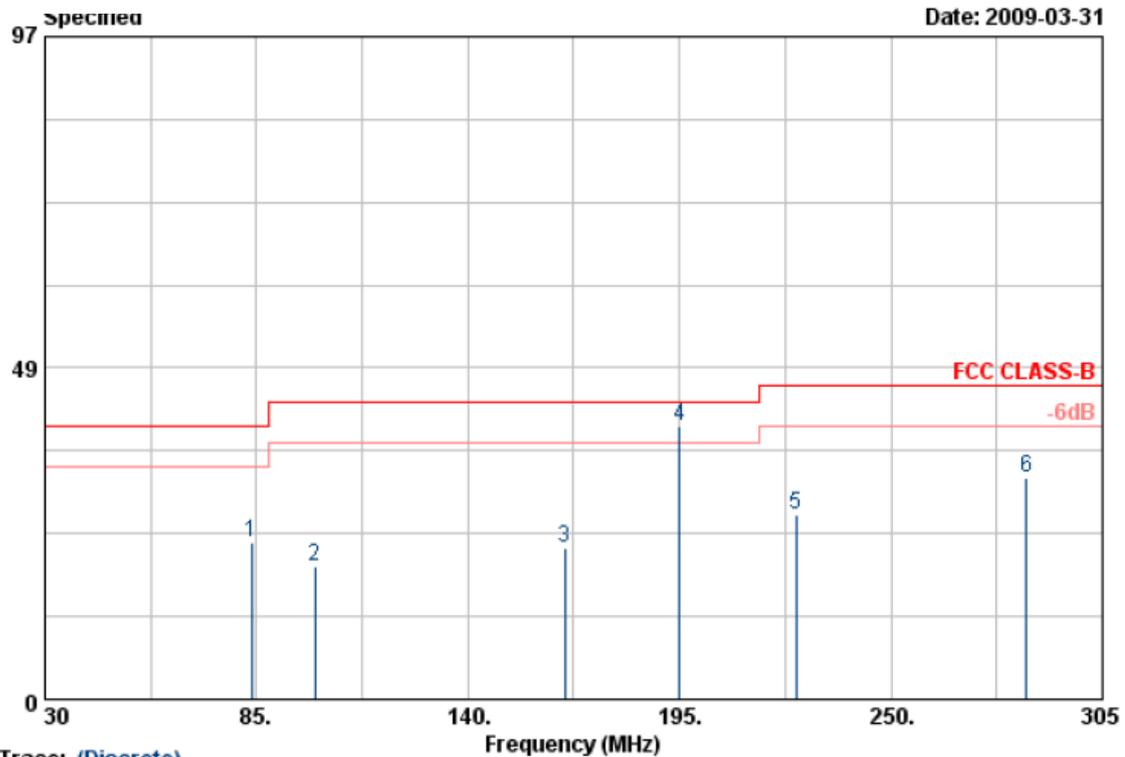
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	399.400	49.63	-25.42	24.21	46.00	-21.79	Peak	150	0
2	480.600	44.19	-27.88	16.31	46.00	-29.69	Peak	150	0
3	553.400	42.40	-24.70	17.70	46.00	-28.30	Peak	150	0
4	587.000	46.20	-26.43	19.77	46.00	-26.23	Peak	150	0
5	665.400	44.03	-27.09	16.94	46.00	-29.06	Peak	150	0
6	930.000	44.49	-21.82	22.67	46.00	-23.33	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 25 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

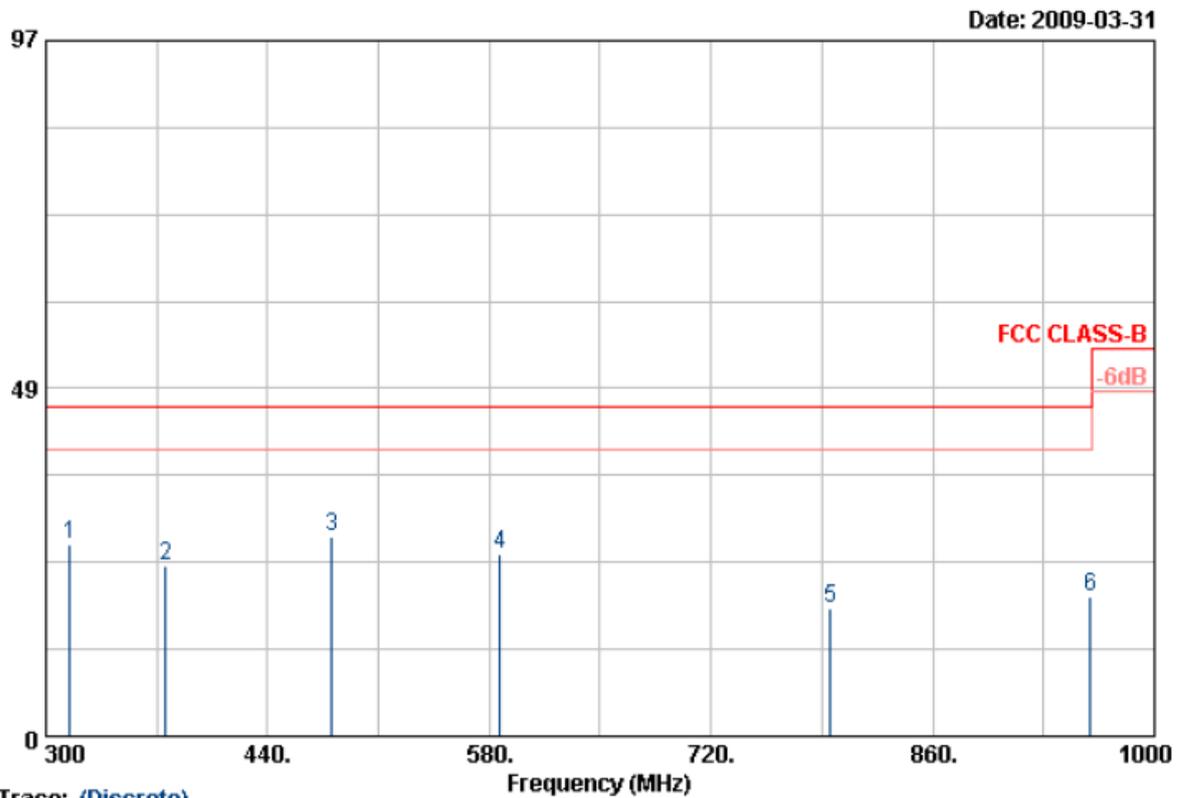
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	83.63	54.07	-31.05	23.02	40.00	-16.98	Peak	100	0
2	100.13	50.19	-30.75	19.44	43.50	-24.06	Peak	100	0
3	165.30	52.48	-30.33	22.15	43.50	-21.35	Peak	100	0
4	195.00	70.06	-30.12	39.94	43.50	-3.56	QP	100	0
5	225.25	57.09	-29.94	27.15	46.00	-18.85	Peak	100	0
6	285.20	60.16	-27.78	32.38	46.00	-13.62	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 25 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

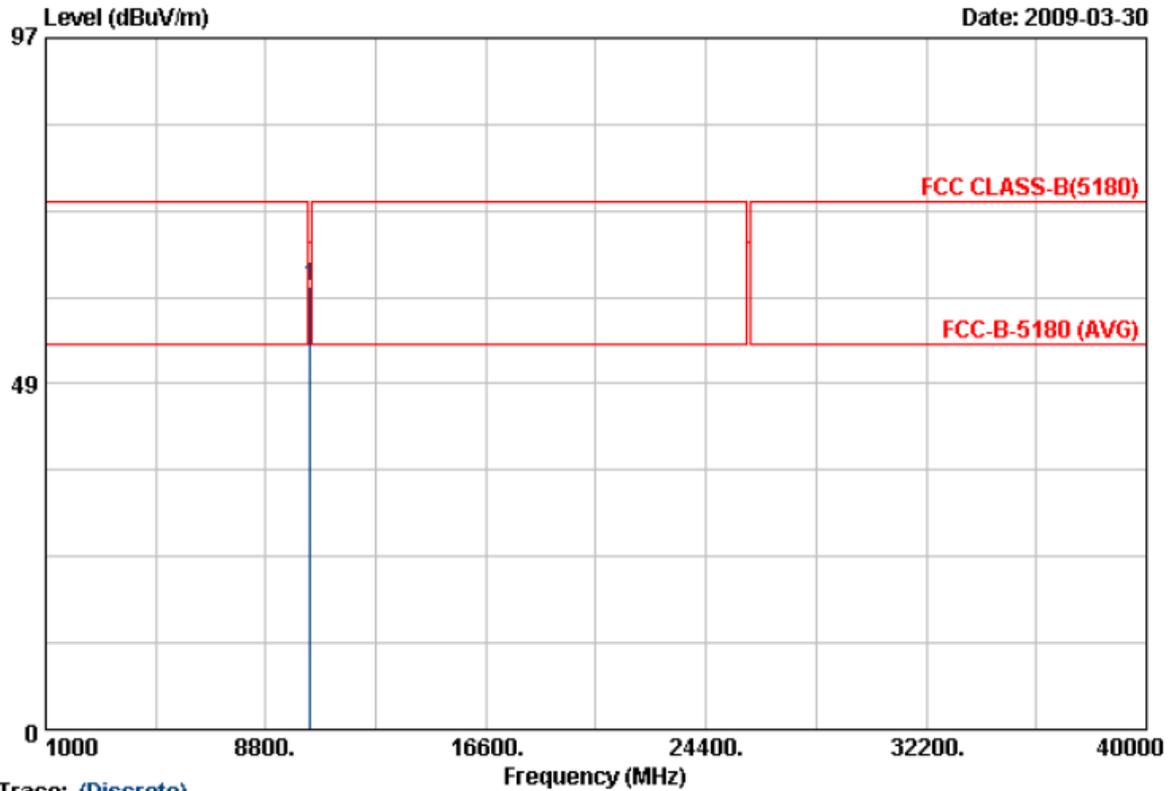
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	315.400	54.99	-28.22	26.77	46.00	-19.23	Peak	150	0
2	375.600	53.10	-29.20	23.90	46.00	-22.10	Peak	150	0
3	480.600	52.70	-24.90	27.80	46.00	-18.20	Peak	150	0
4	587.000	48.99	-23.62	25.37	46.00	-20.63	Peak	150	0
5	795.600	43.25	-25.34	17.91	46.00	-28.09	Peak	150	0
6	959.400	45.25	-25.88	19.37	46.00	-26.63	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 22 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

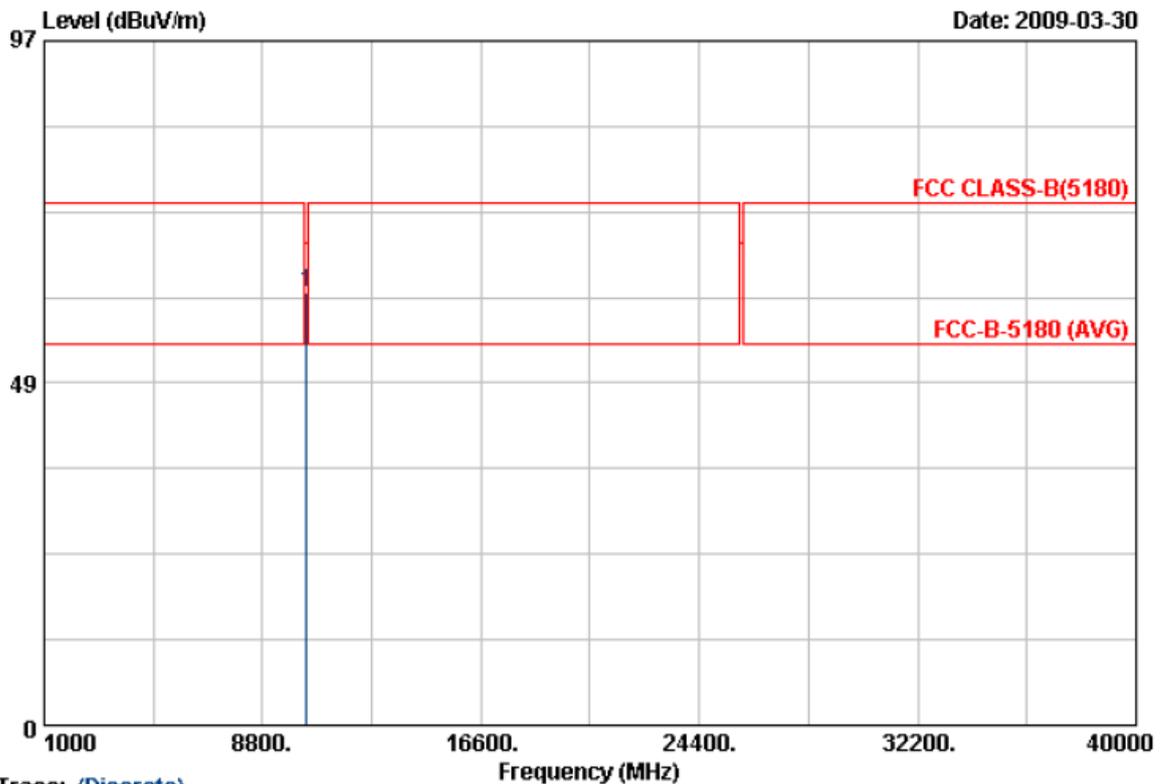
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10383.540	41.43	20.81	62.24	68.30	-6.06	Peak	100	150

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH38	Temperature	: 22 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

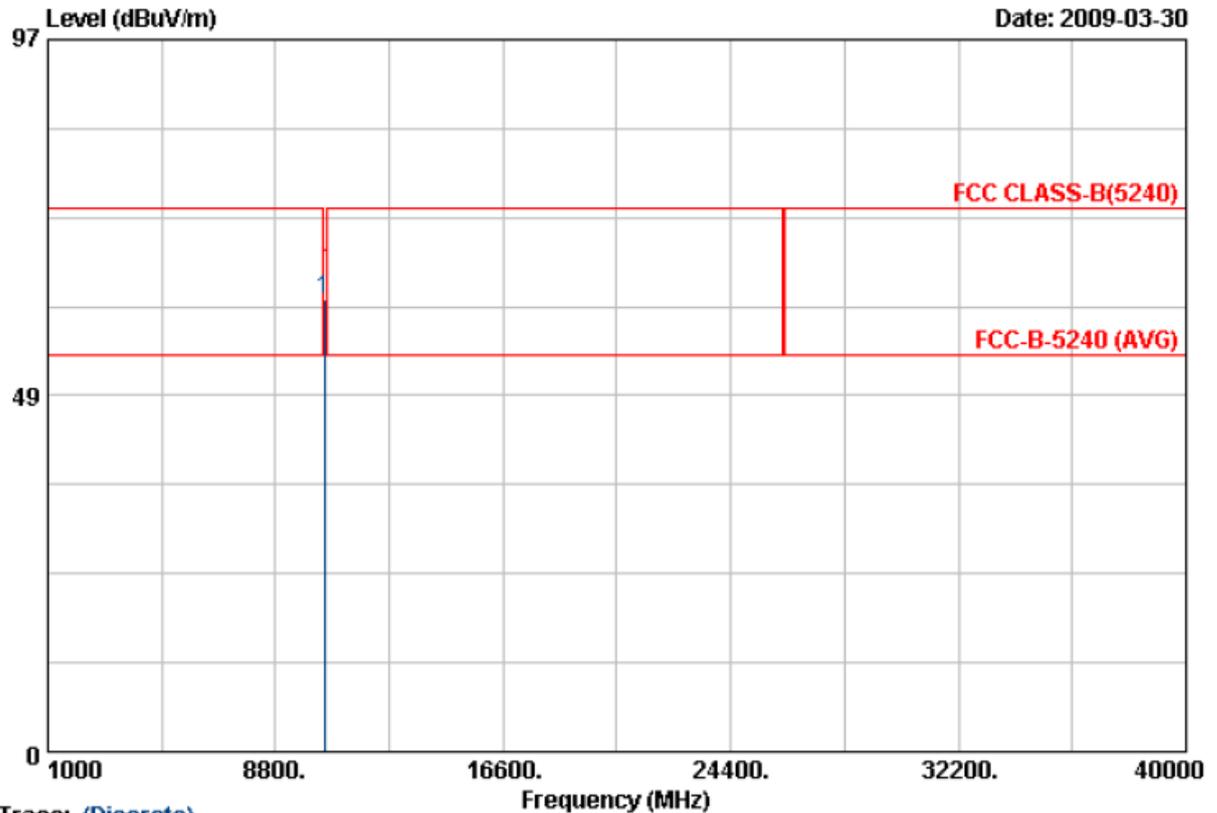
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10384.000	42.87	18.56	61.43	68.30	-6.87	Peak	100	206

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH46	Temperature	: 22 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

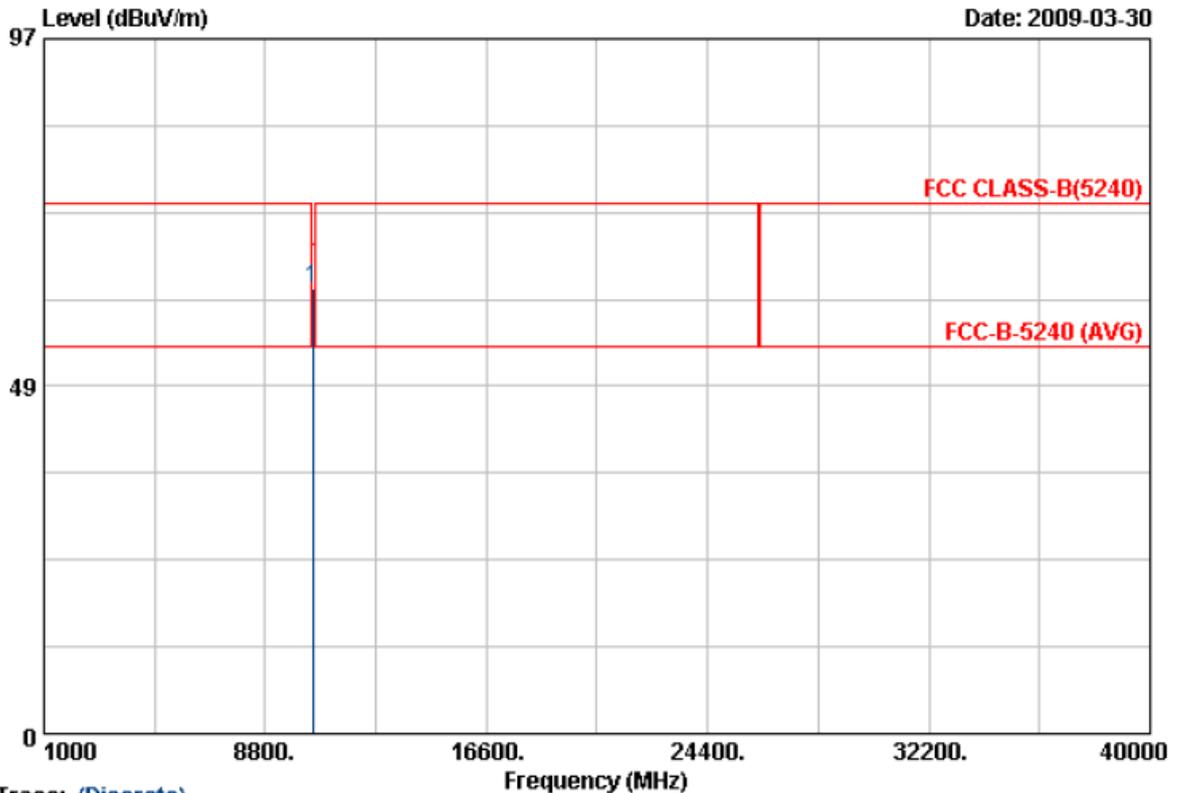
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10460.420	41.02	20.56	61.58	68.30	-6.72	Peak	100	133

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH46	Temperature	: 22 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Trace: (Discrete)

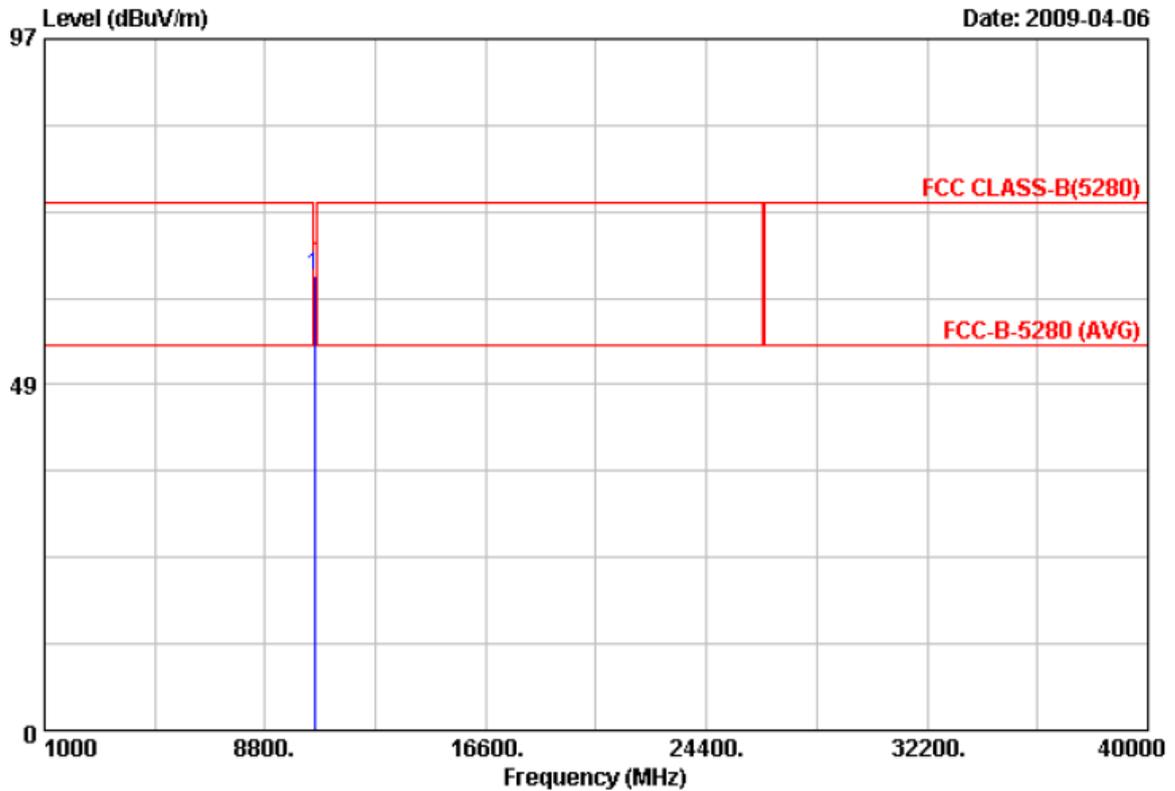
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV/m	dB		cm	Deg
1	10463.040	43.76	18.47	62.23	68.30	-6.07	Peak	100	118

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH54	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



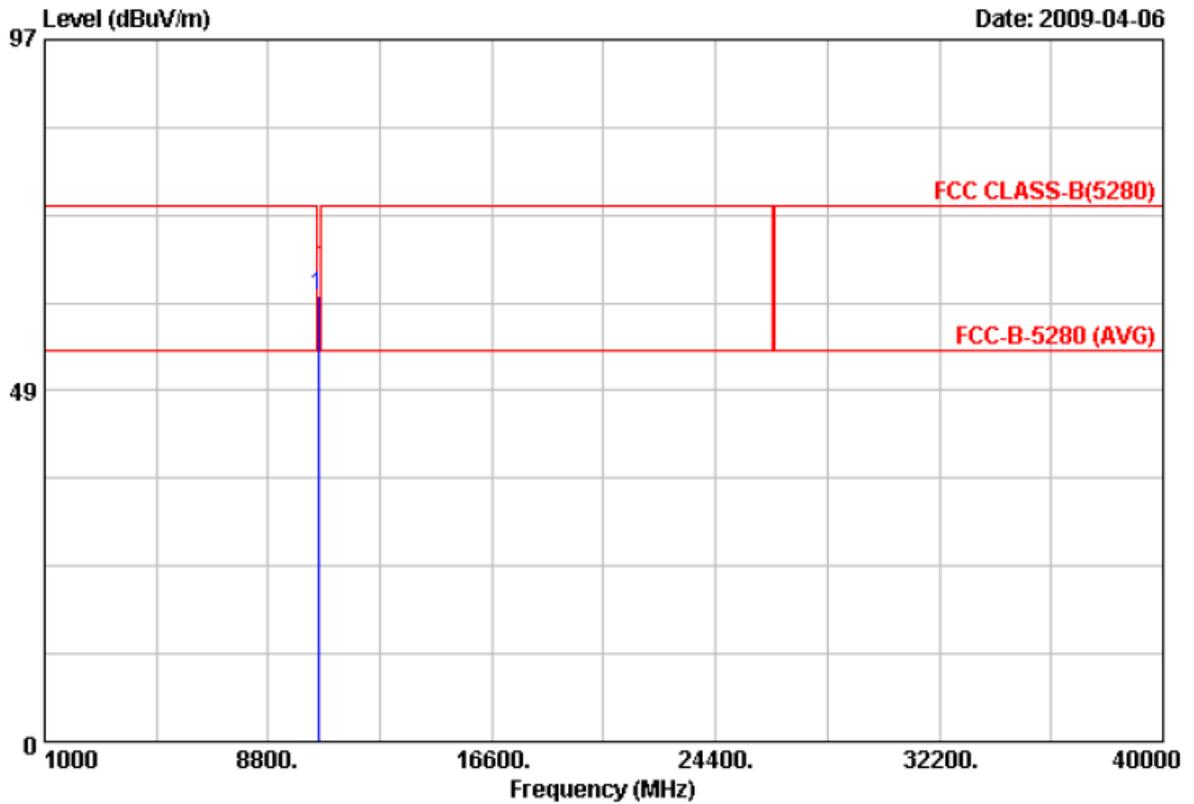
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10539.840	43.29	20.52	63.81	68.30	-4.49	Peak	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH54	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



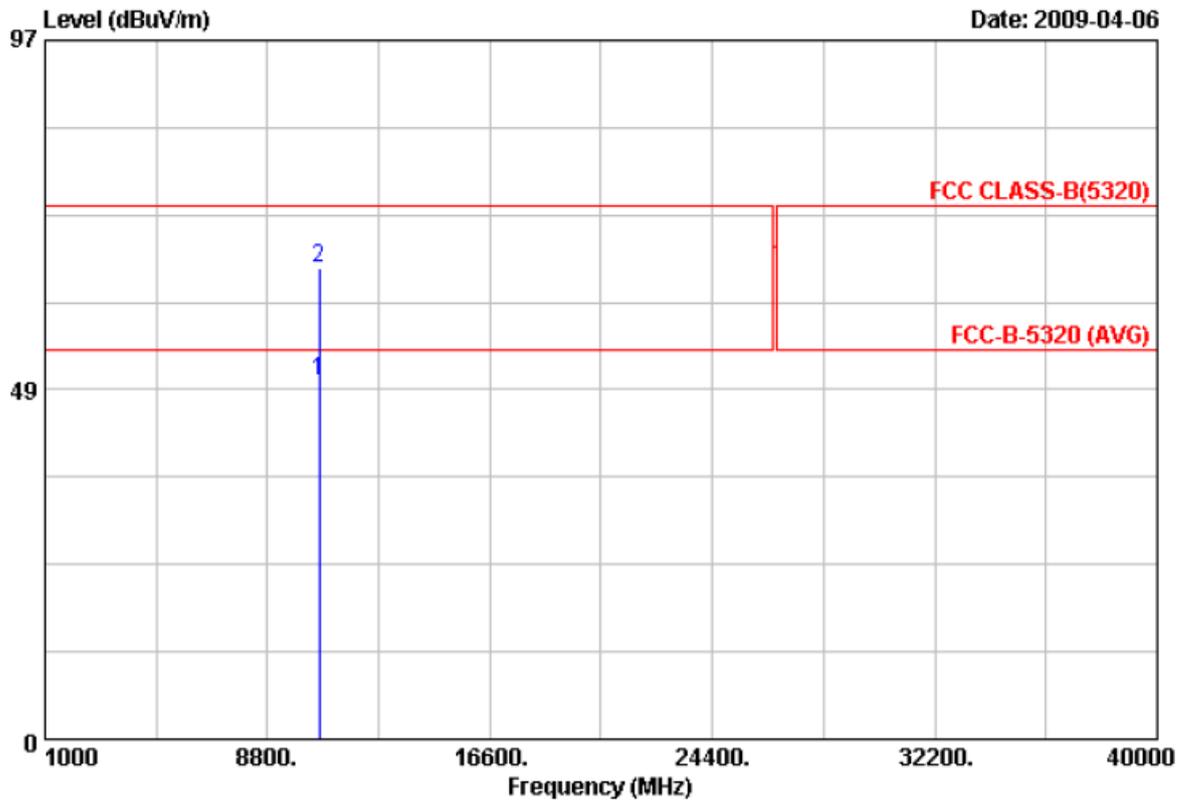
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10540.230	42.94	18.55	61.49	68.30	-6.81	Peak	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH62	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



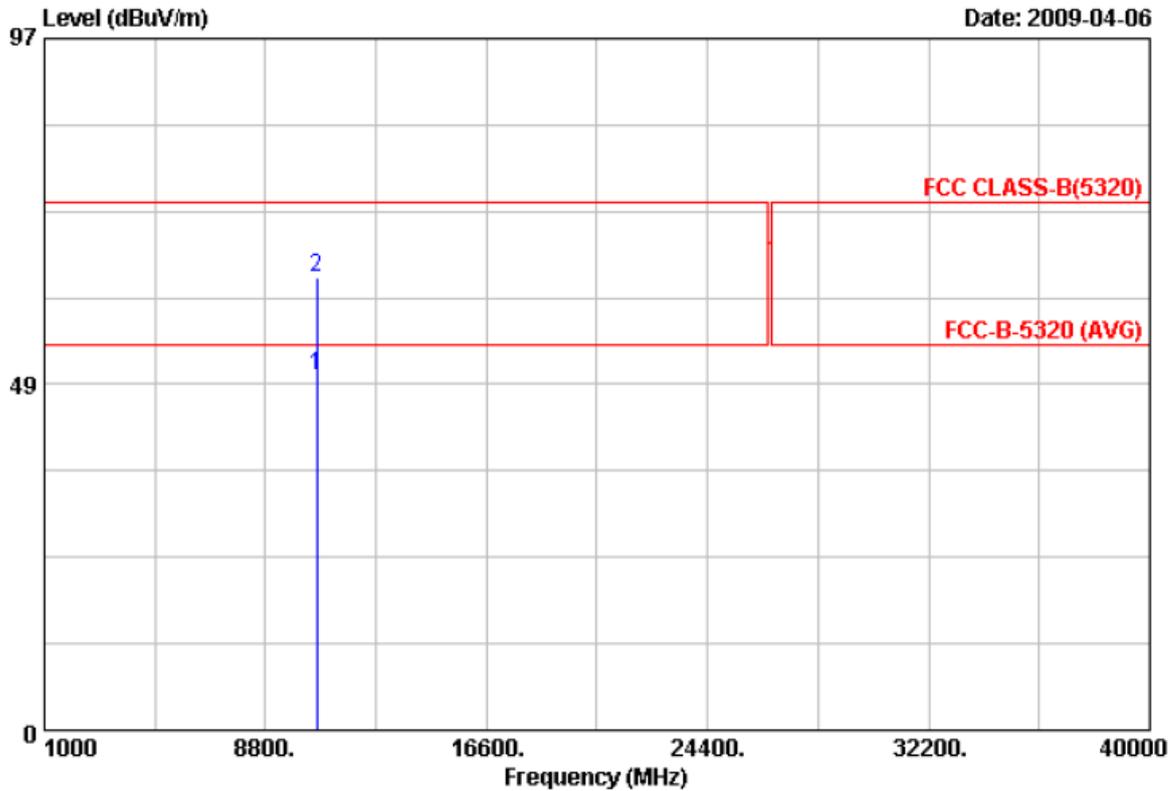
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10619.49	28.98	20.72	49.70	54.00	-4.30	Average	150	0
2	10620.13	44.77	20.72	65.49	74.00	-8.51	Peak	150	0

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH62	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



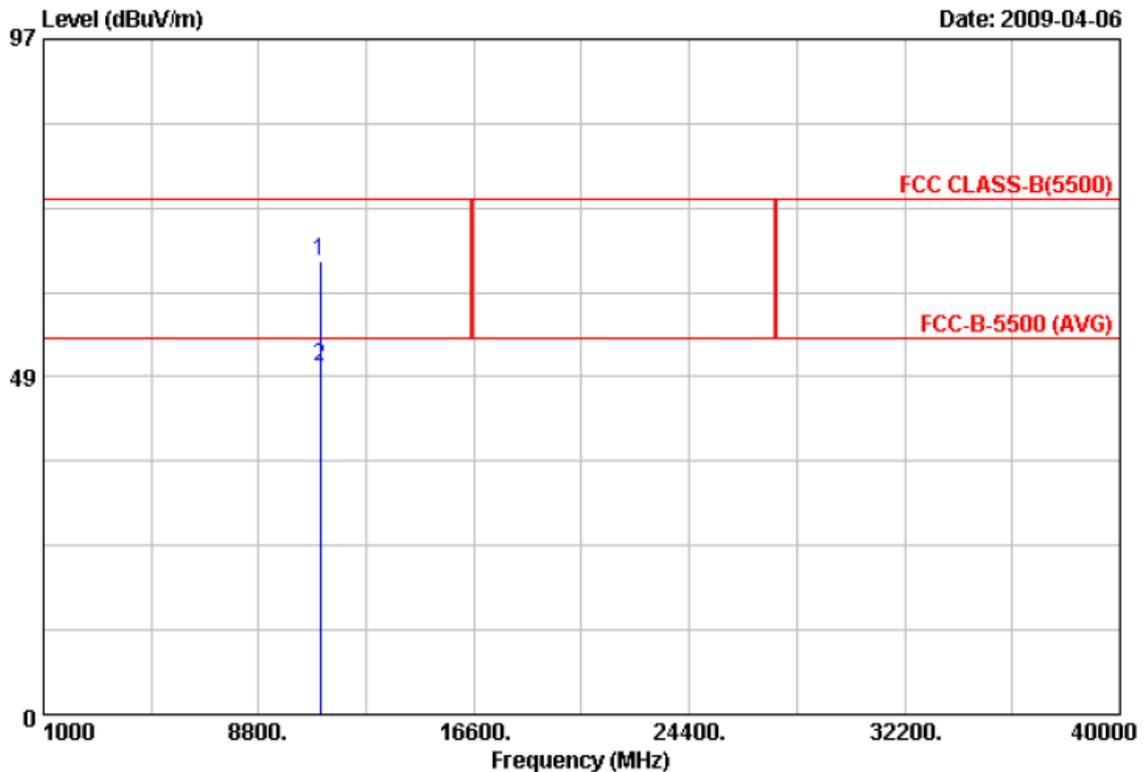
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10619.56	30.97	18.80	49.77	54.00	-4.23	Average	100	0
2	10620.27	44.74	18.80	63.54	74.00	-10.46	Peak	100	0

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH102	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



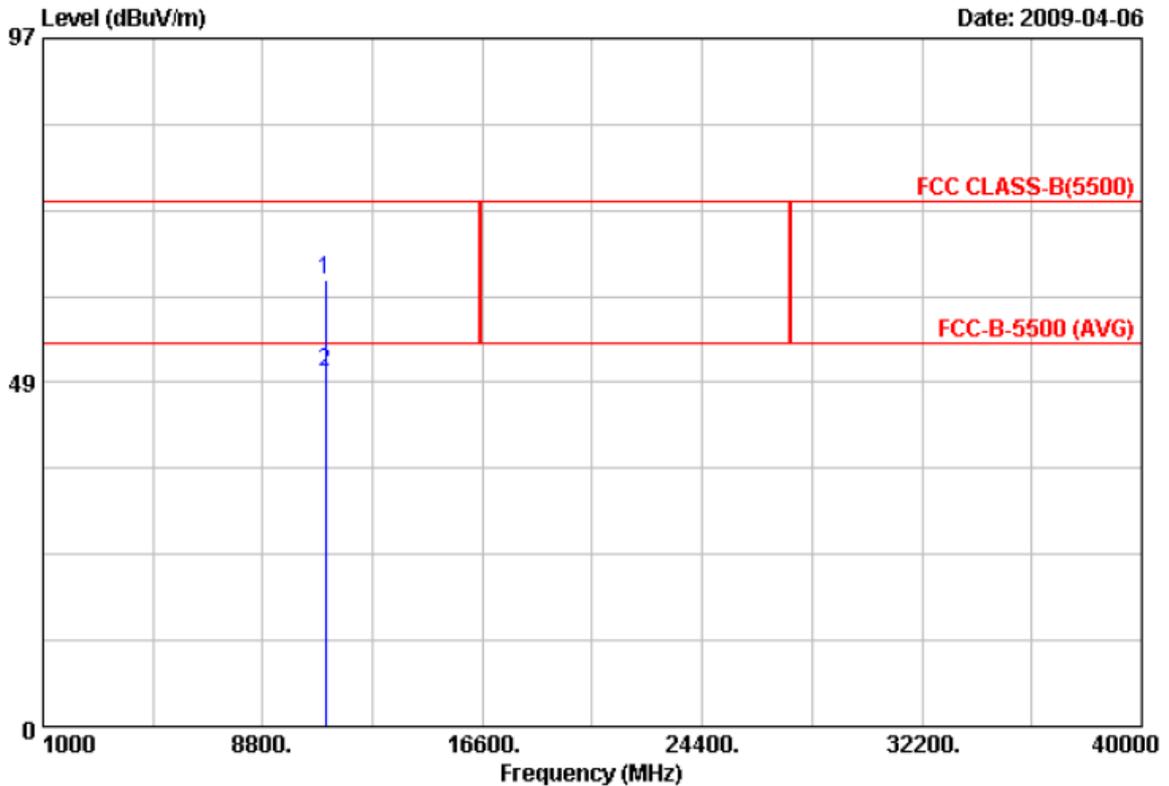
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11020.08	43.22	21.77	64.99	74.00	-9.01	Peak	100	360
2	11020.82	28.14	21.77	49.91	54.00	-4.09	Average	100	360

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH102	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



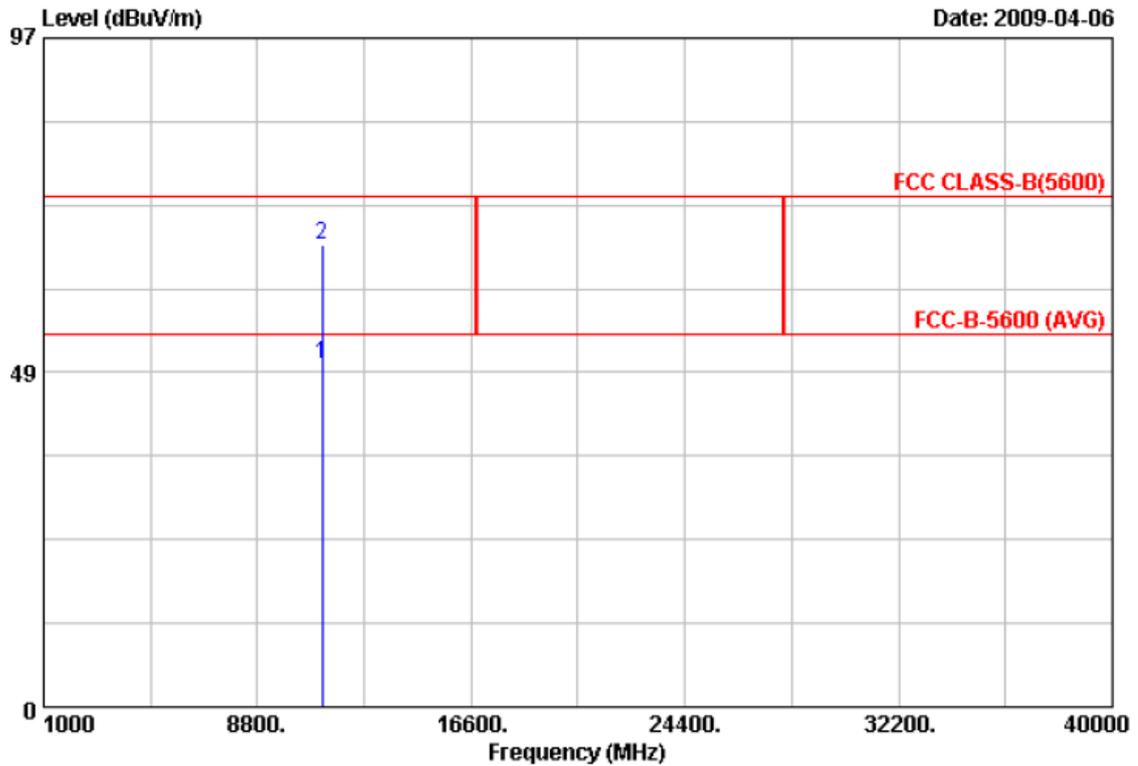
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11020.46	42.87	20.02	62.89	74.00	-11.11	Peak	100	360
2	11020.61	29.93	20.02	49.95	54.00	-4.05	Average	100	360

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH118	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



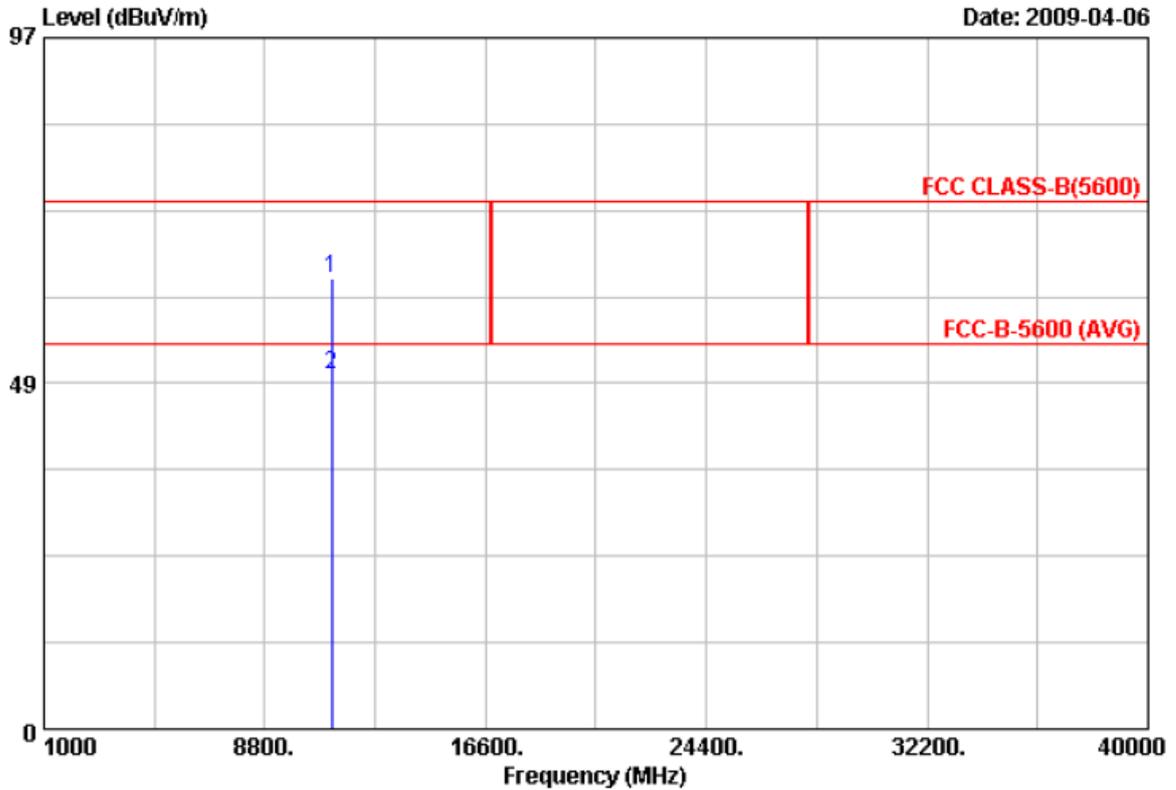
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11179.77	27.38	22.41	49.79	54.00	-4.21	Average	100	360
2	11179.83	44.63	22.41	67.04	74.00	-6.96	Peak	100	360

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH118	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



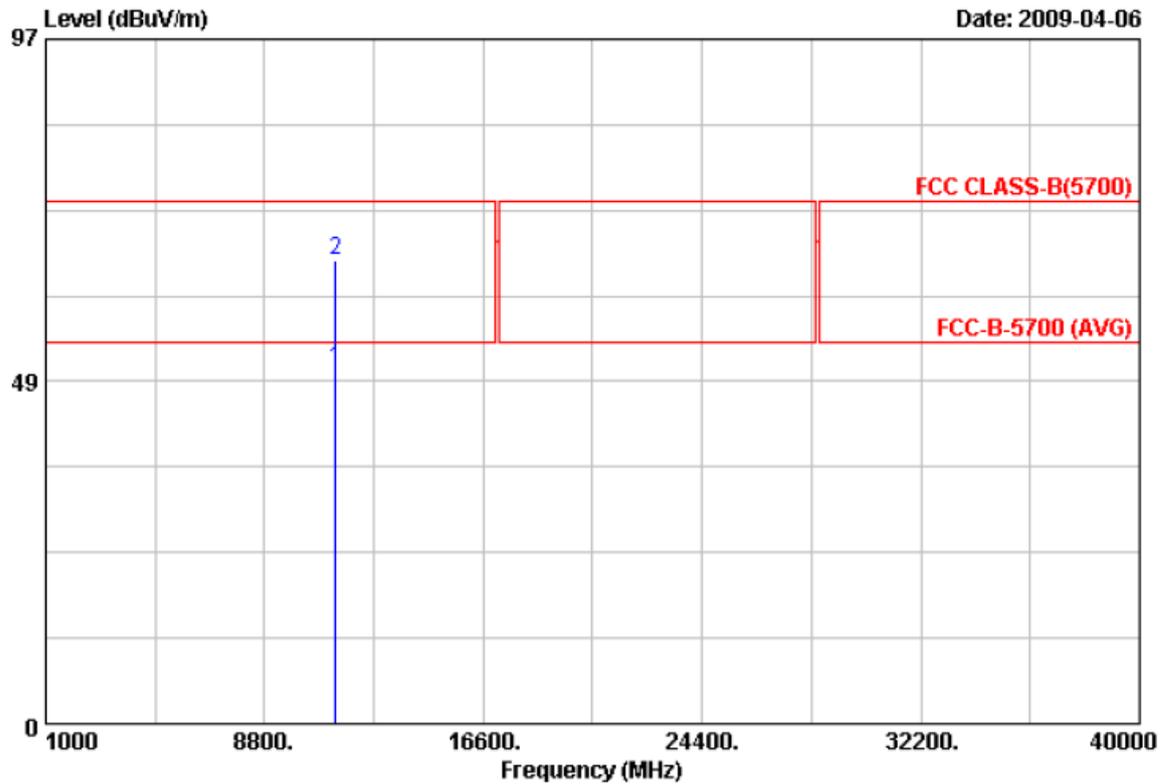
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11179.07	42.84	20.32	63.16	74.00	-10.84	Peak	100	360
2	11179.47	29.43	20.32	49.75	54.00	-4.25	Average	100	360

Notes:

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



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: 802.11an HT40, CH134	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



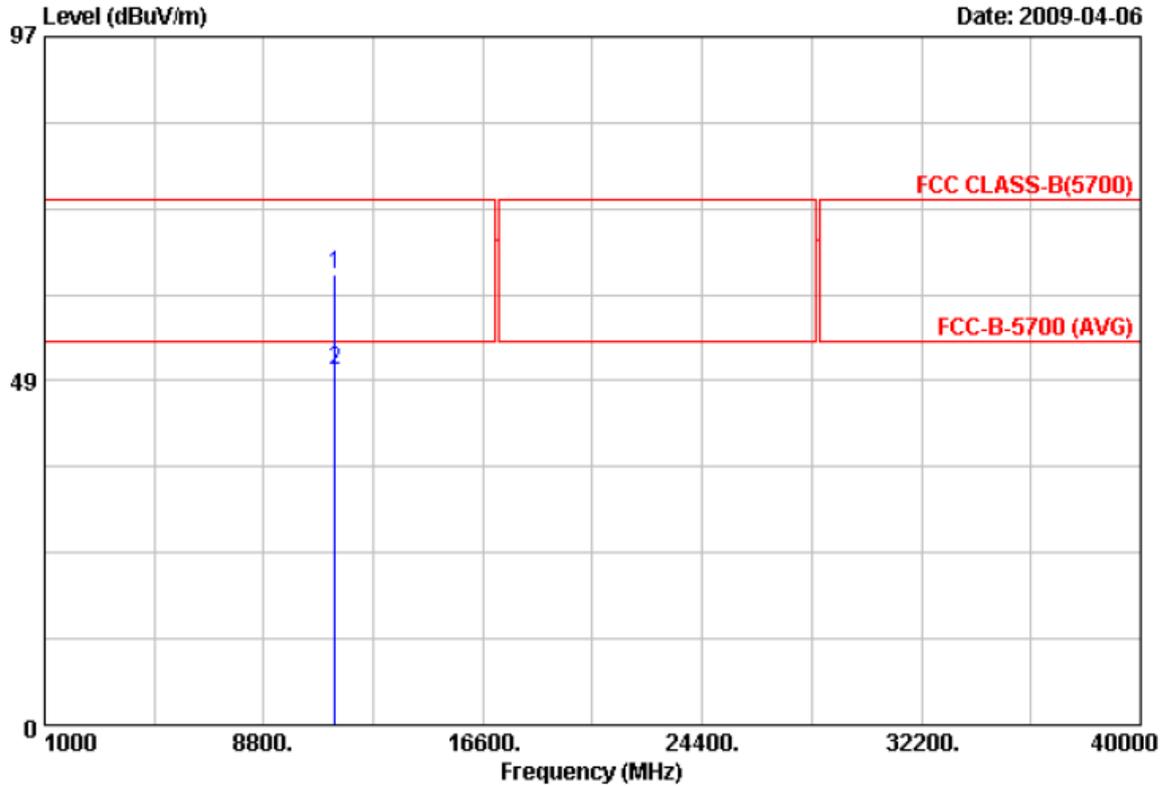
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11339.97	27.27	23.04	50.31	54.00	-3.69	Average	100	360
2	11340.55	42.62	23.04	65.66	74.00	-8.34	Peak	100	360

Notes:

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



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: 802.11an HT40, CH134	Temperature	: 23 °C
Memo	: EUT with USB cable	Humidity	: 65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11339.58	42.91	20.61	63.52	74.00	-10.48	Peak	100	360
2	11339.68	29.29	20.61	49.90	54.00	-4.10	Average	100	360

Notes:

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

Test engineer: Ben



6. Peak Transmit Power

6.1. Test Procedure

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

6.2. Test Setup Layout



6.3. Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	10047	2009/02/21	2010/02/20



6.4. Test Result and Data

Test Date: Mar. 10, 2009

Temperature: 25°C

Atmospheric pressure: 1024 hPa

Humidity: 48%

Modulation Standard: IEEE 802.11a (6Mbps)

Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)		26dB Occupied Bandwidth (MHz)	
		Ant R	Ant L	Ant R	Ant L	Ant R	Ant L
36	5180	12.48	12.77	17.70	18.90	20.91	21.07
44	5220	12.92	12.80	19.60	19.10	20.91	20.99
48	5240	12.25	12.63	16.80	18.30	20.91	21.07
56	5280	11.57	12.52	14.40	17.90	21.50	21.50
60	5300	11.73	11.05	14.90	12.70	21.50	21.50
64	5320	12.43	11.76	17.50	15.00	20.99	20.91
100	5500	12.07	11.74	16.10	14.90	20.91	21.07
120	5600	11.53	11.17	14.20	13.10	21.15	21.15
140	5700	11.57	12.02	14.40	15.90	20.91	21.40

Modulation Standard: IEEE 802.11an HT20 (130Mbps)

Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)	
		Ant R	Ant L	Ant R+L	Ant R+L	Ant R	Ant L
36	5180	12.06	11.55	14.82	30.36	21.39	21.55
44	5220	12.30	12.35	15.34	34.16	21.55	21.55
48	5240	11.91	11.54	14.74	29.78	21.63	21.47
56	5280	11.75	11.80	14.79	30.10	22.00	22.10
60	5300	11.97	11.22	14.62	28.98	22.10	22.00
64	5320	11.61	12.01	14.82	30.37	21.55	21.39
100	5500	12.10	12.16	15.14	32.66	21.71	21.55
120	5600	12.07	11.47	14.79	30.13	21.71	21.47
140	5700	11.64	11.95	14.81	30.26	21.47	21.47

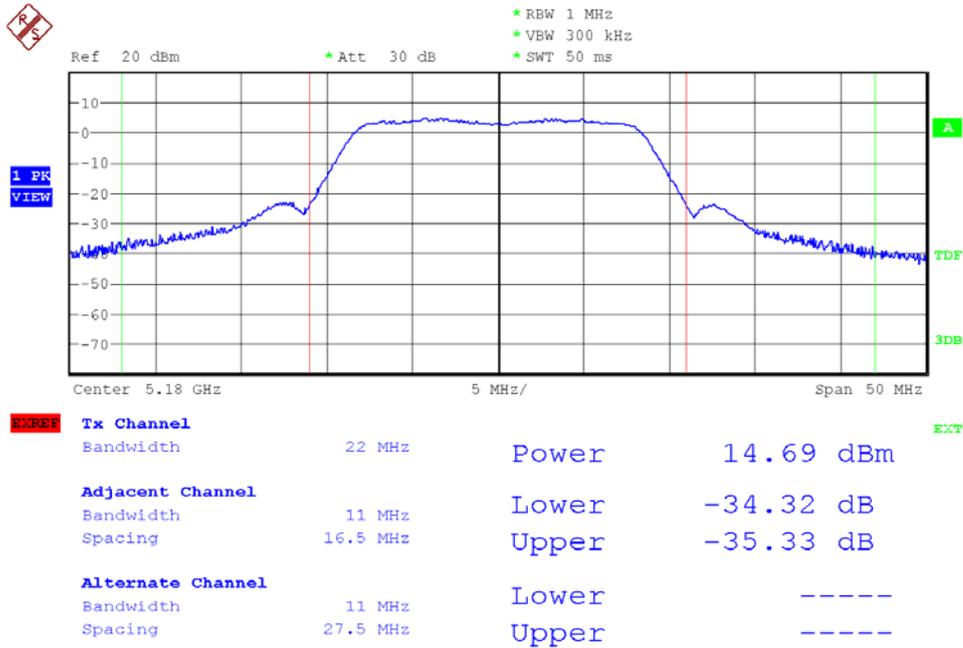
Modulation Standard: IEEE 802.11an HT40 (270Mbps)

Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)	
		Ant R	Ant L	Ant R+L	Ant R+L	Ant R	Ant L
38	5190	12.49	11.56	15.06	32.06	39.58	39.74
46	5230	11.52	11.82	14.68	29.40	39.58	38.94
54	5270	11.65	11.42	14.55	28.49	39.90	38.78
62	5310	10.90	11.65	14.30	26.92	39.26	39.10
102	5510	12.07	12.35	15.22	33.29	39.10	39.90
118	5590	11.69	11.84	14.78	30.03	39.58	39.26
134	5670	12.04	11.58	14.83	30.38	39.42	39.90

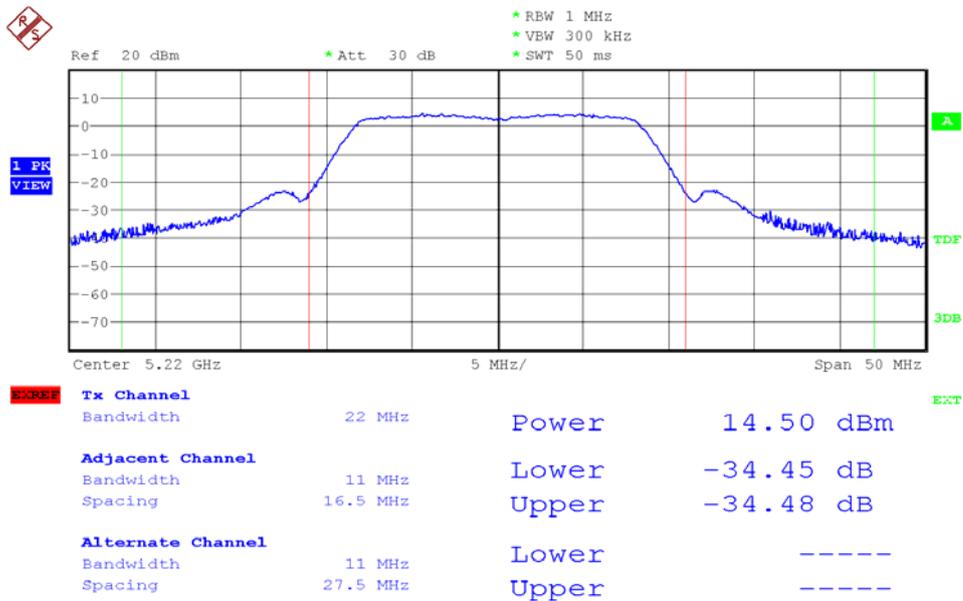


Peak Transmit Power

Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 36

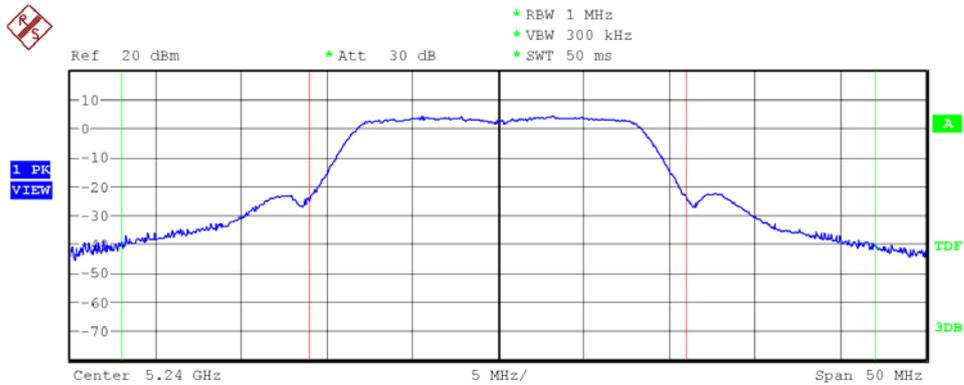


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 44



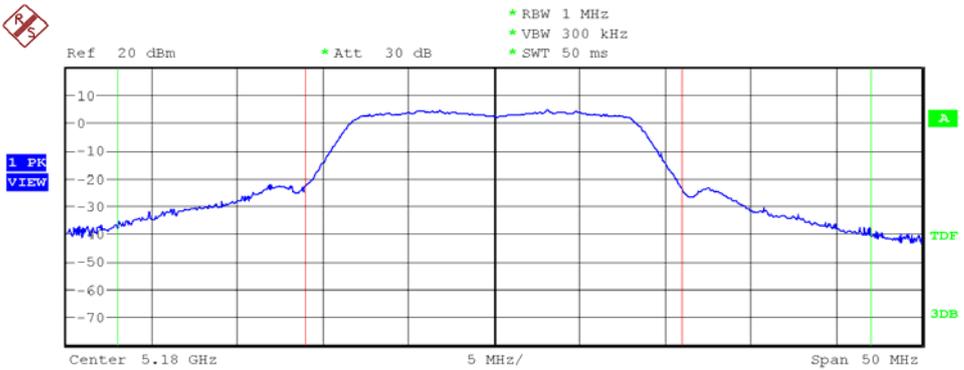


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 48



Tx Channel		Power	14.21 dBm
Bandwidth	22 MHz		
Adjacent Channel		Lower	-33.99 dB
Bandwidth	11 MHz	Upper	-33.66 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		

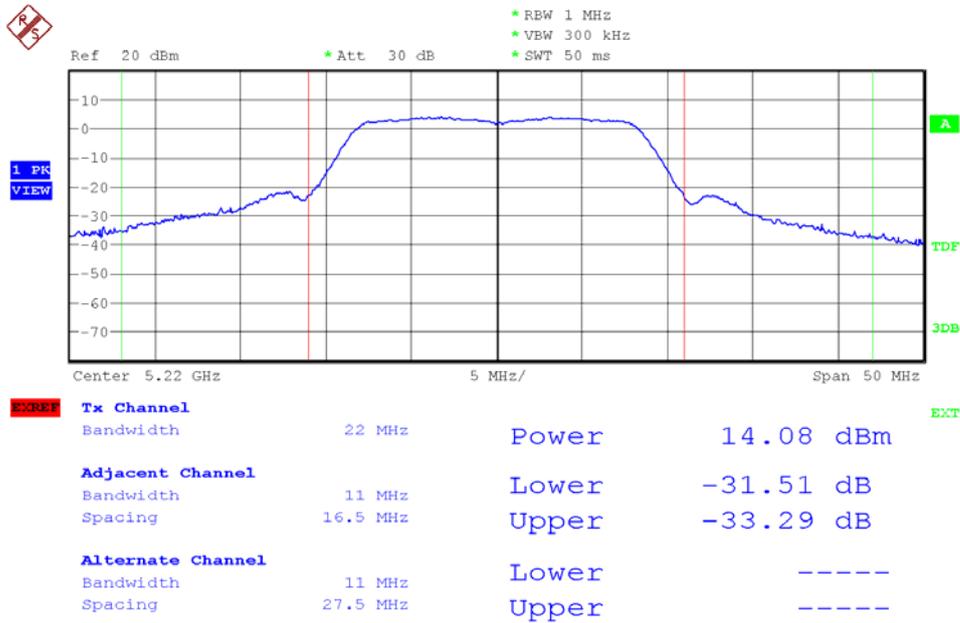
Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 36



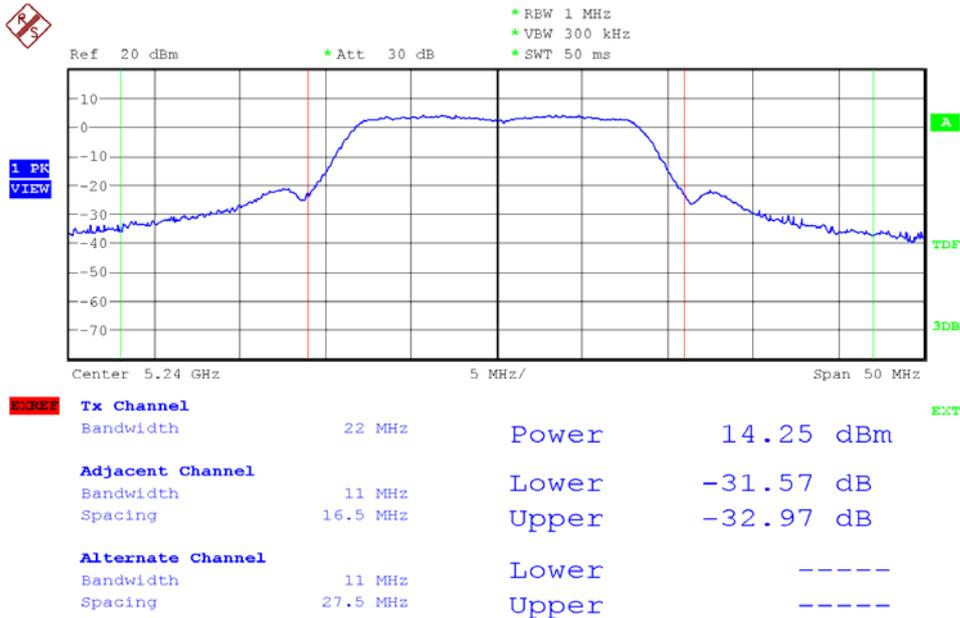
Tx Channel		Power	14.50 dBm
Bandwidth	22 MHz		
Adjacent Channel		Lower	-32.71 dB
Bandwidth	11 MHz	Upper	-34.56 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		



Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 44

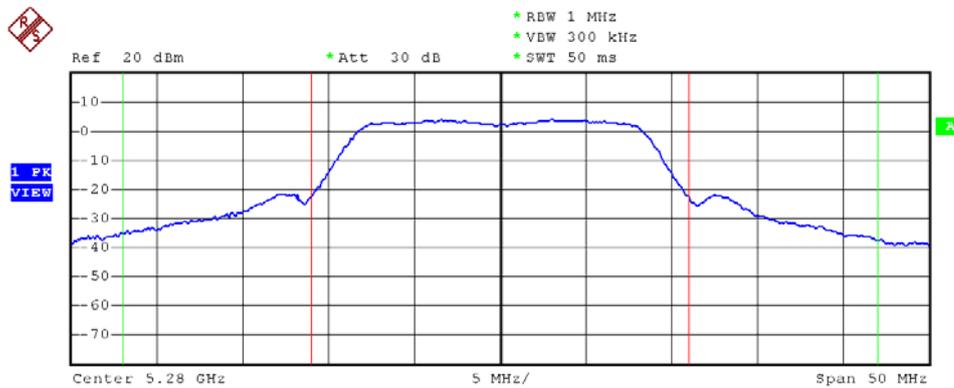


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 48



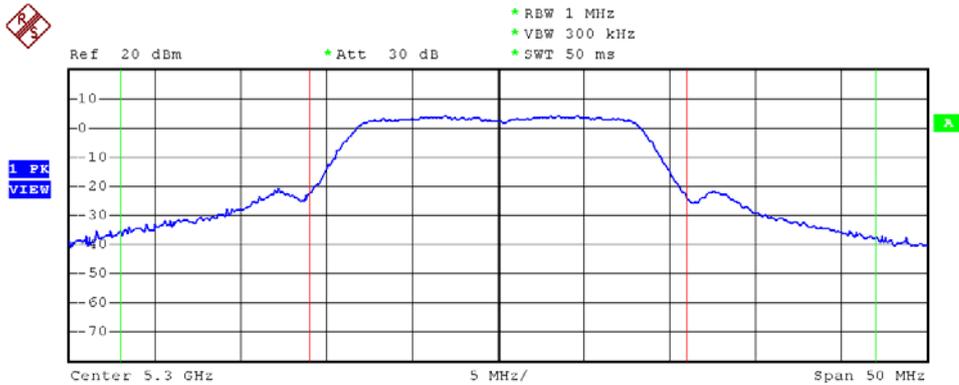


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 56



Tx Channel			
Bandwidth	22 MHz	Power	14.59 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.51 dB
Spacing	16.5 MHz	Upper	-32.45 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

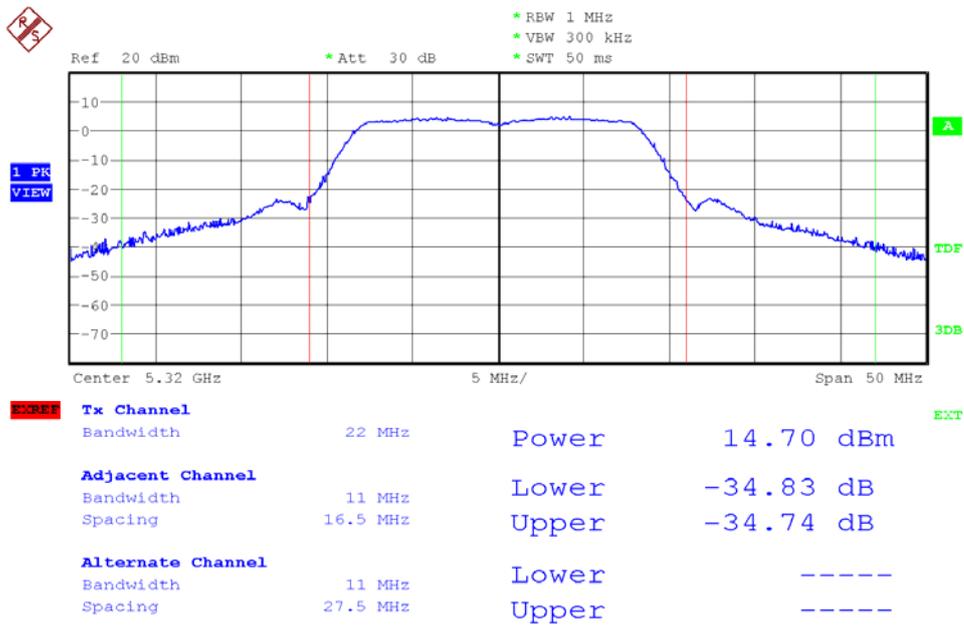
Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 60



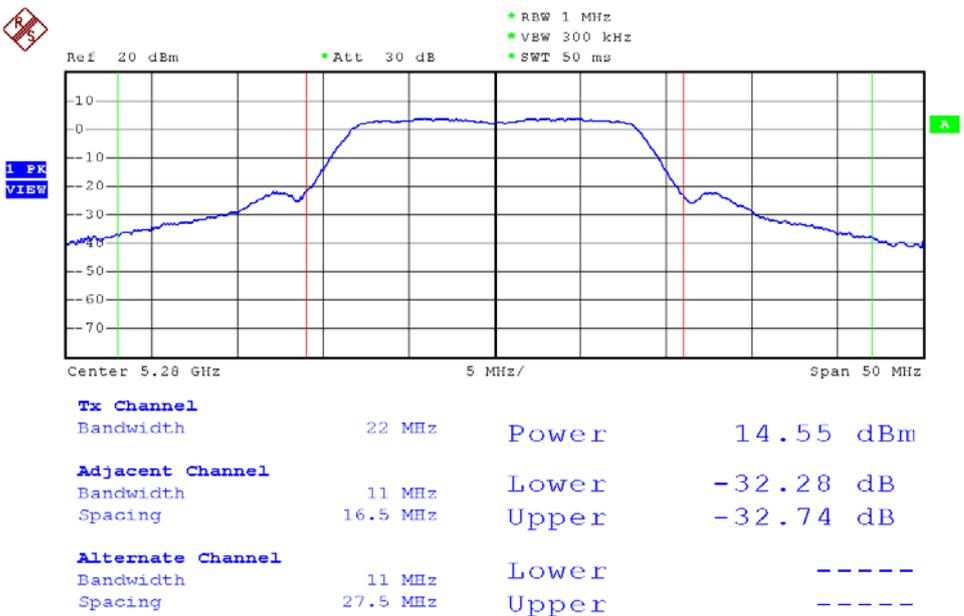
Tx Channel			
Bandwidth	22 MHz	Power	14.72 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.03 dB
Spacing	16.5 MHz	Upper	-32.70 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----



Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 64

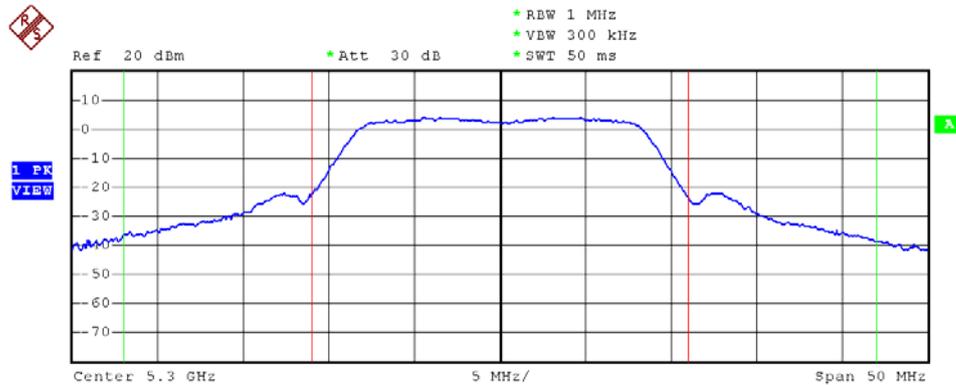


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 56



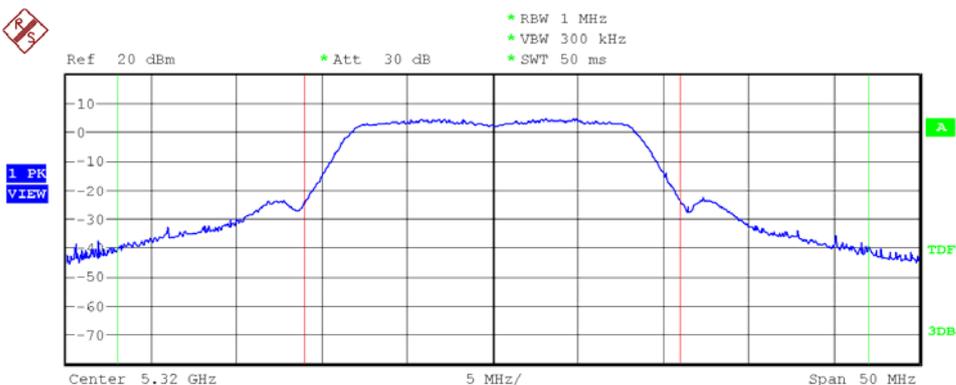


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 60



Tx Channel			
Bandwidth	22 MHz	Power	14.54 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.55 dB
Spacing	16.5 MHz	Upper	-32.66 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

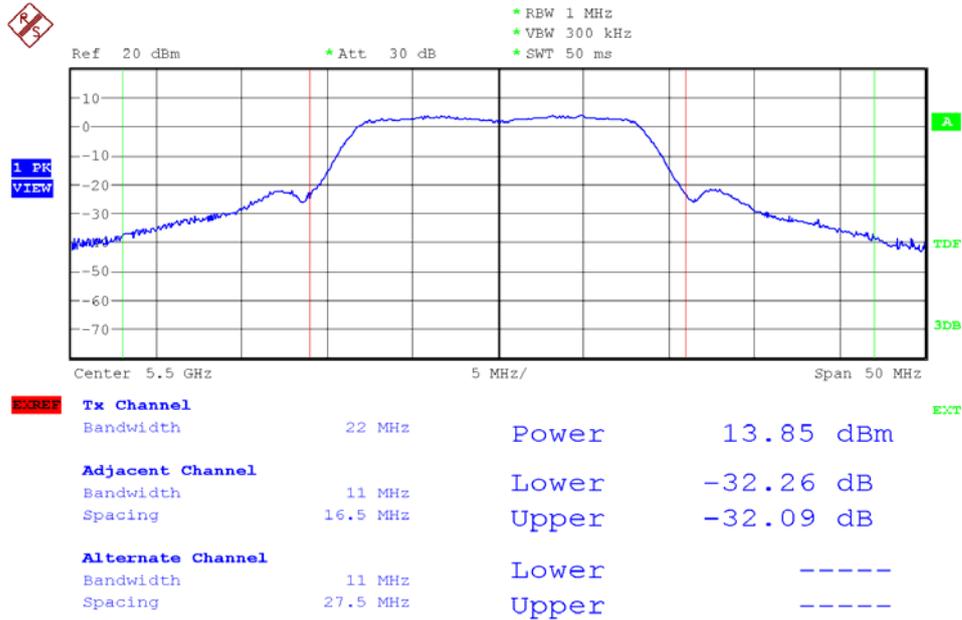
Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 64



Tx Channel			
Bandwidth	22 MHz	Power	14.52 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.81 dB
Spacing	16.5 MHz	Upper	-34.82 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----



Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 100

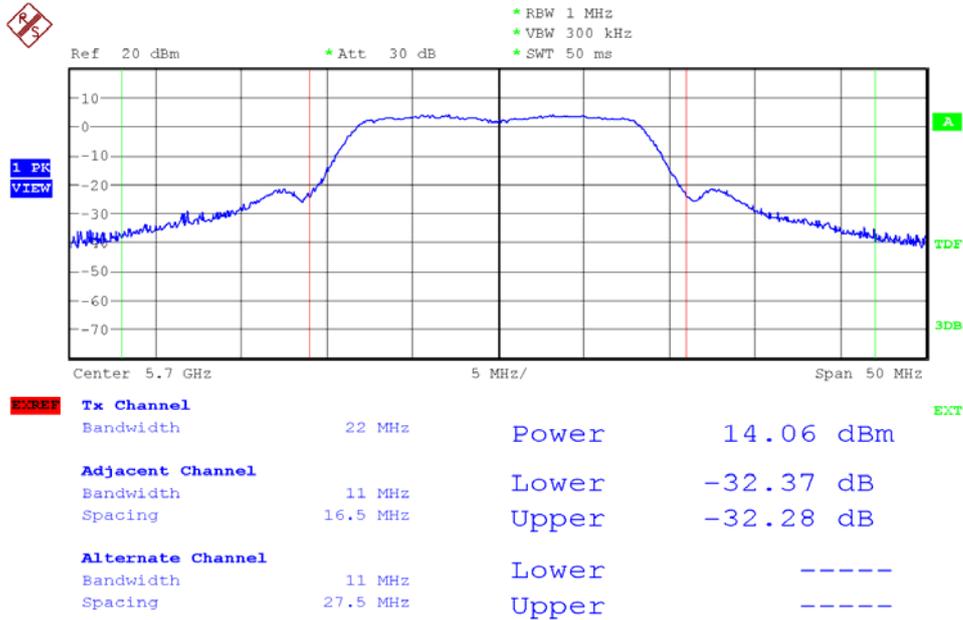


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 120

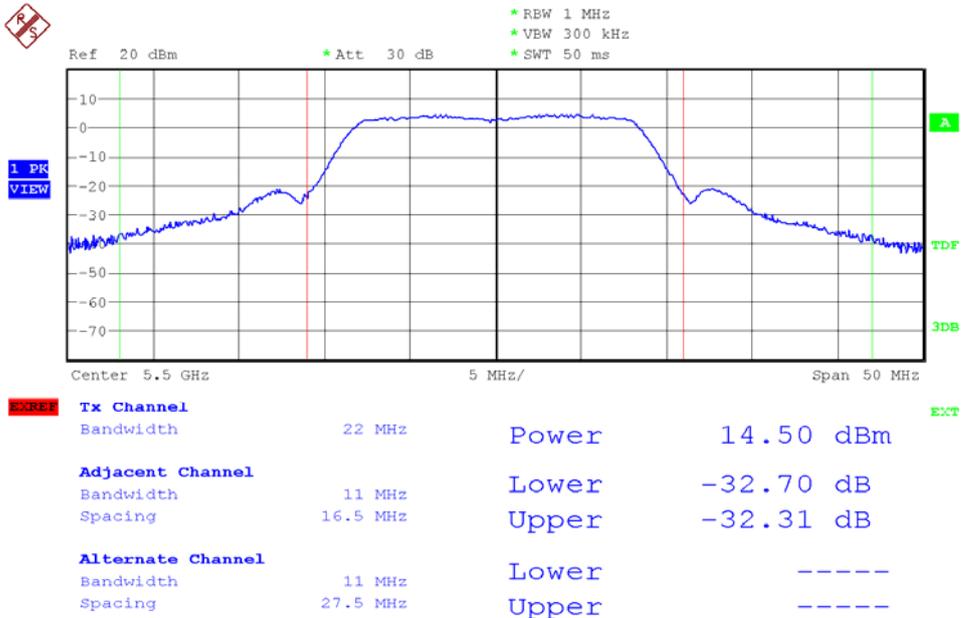




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 140

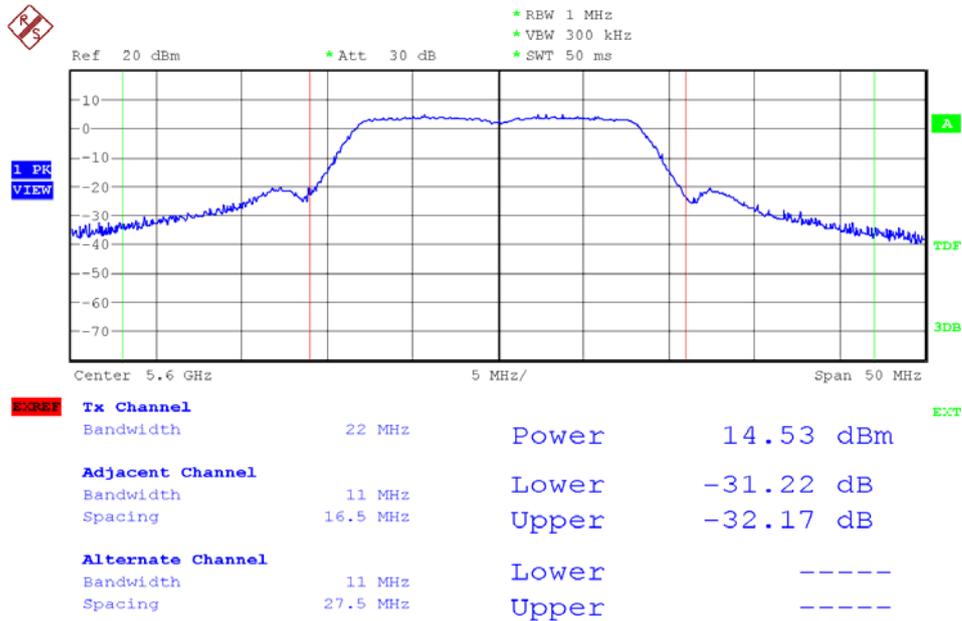


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 100

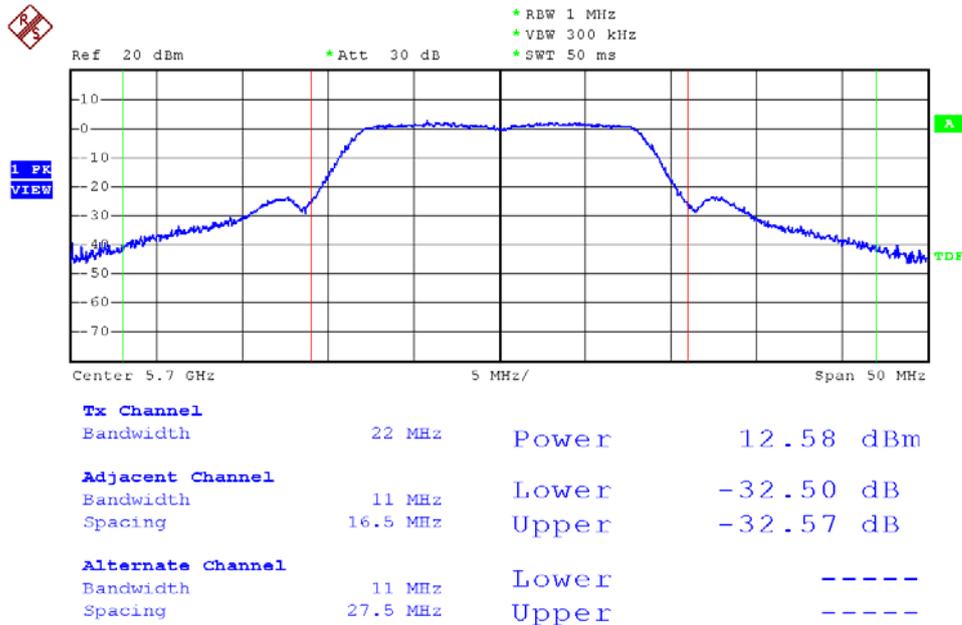




Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 120

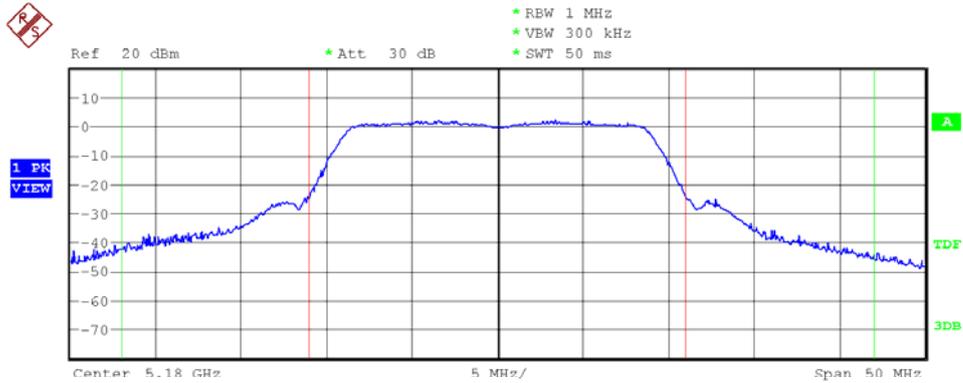


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 140



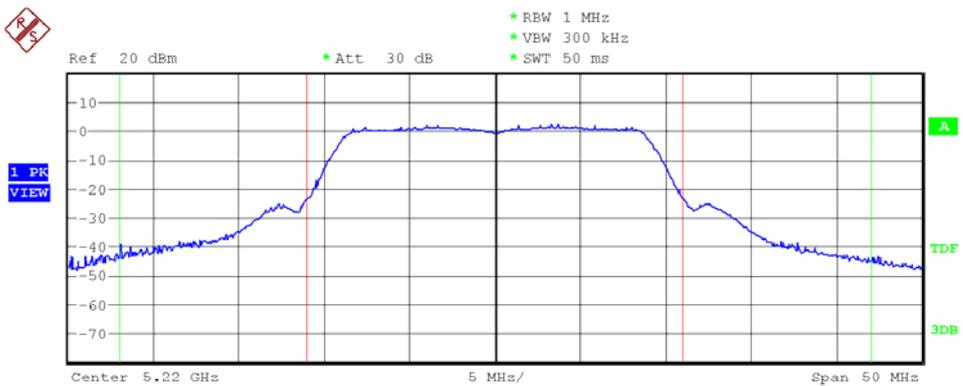


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 36



Tx Channel		Power	12.32 dBm
Bandwidth	22 MHz	Lower	-34.81 dB
Adjacent Channel		Upper	-35.10 dB
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		

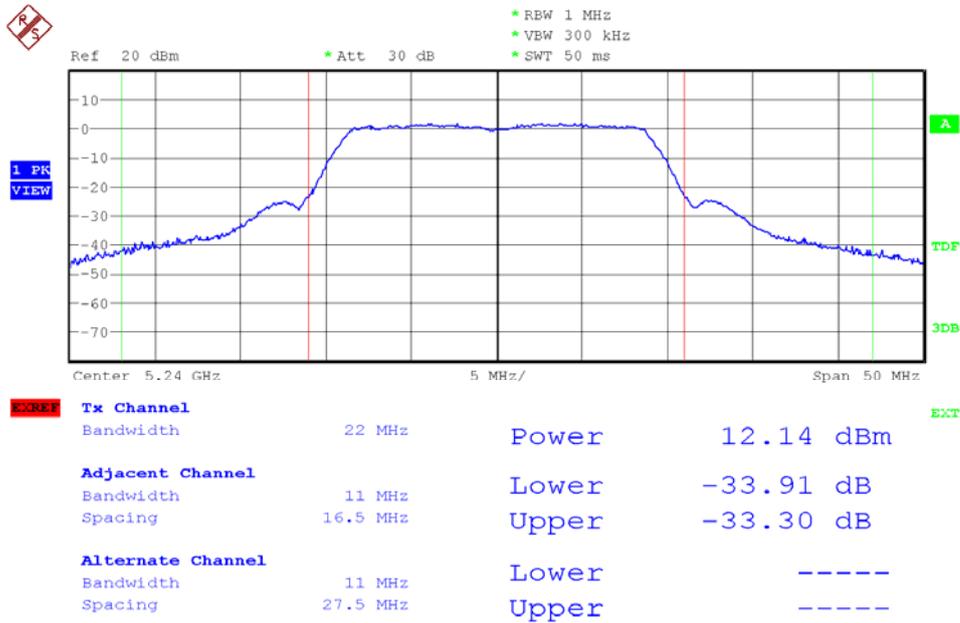
Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 44



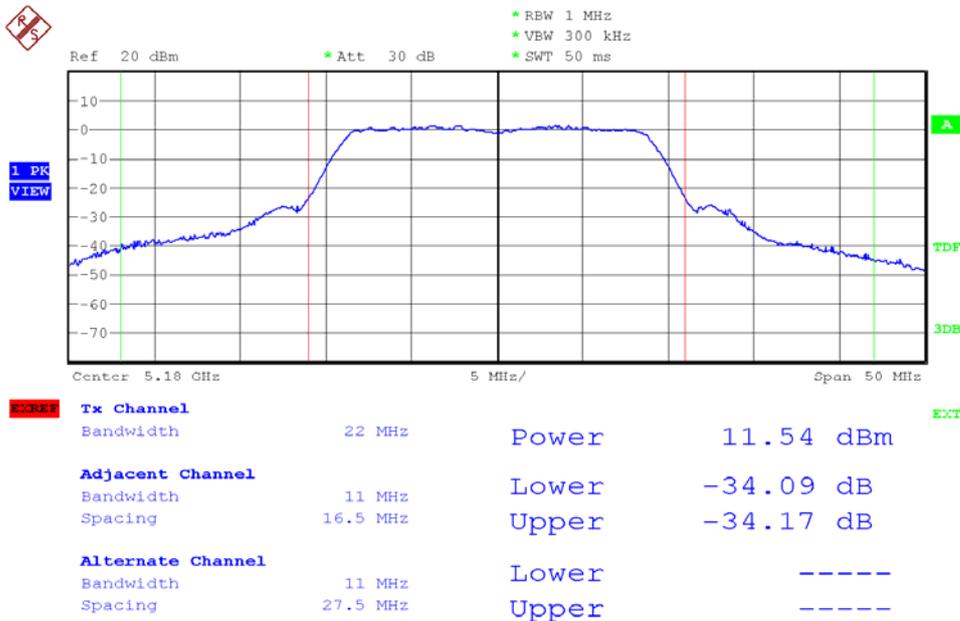
Tx Channel		Power	12.20 dBm
Bandwidth	22 MHz	Lower	-34.68 dB
Adjacent Channel		Upper	-34.22 dB
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel		Lower	-----
Bandwidth	11 MHz	Upper	-----
Spacing	27.5 MHz		



Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 48

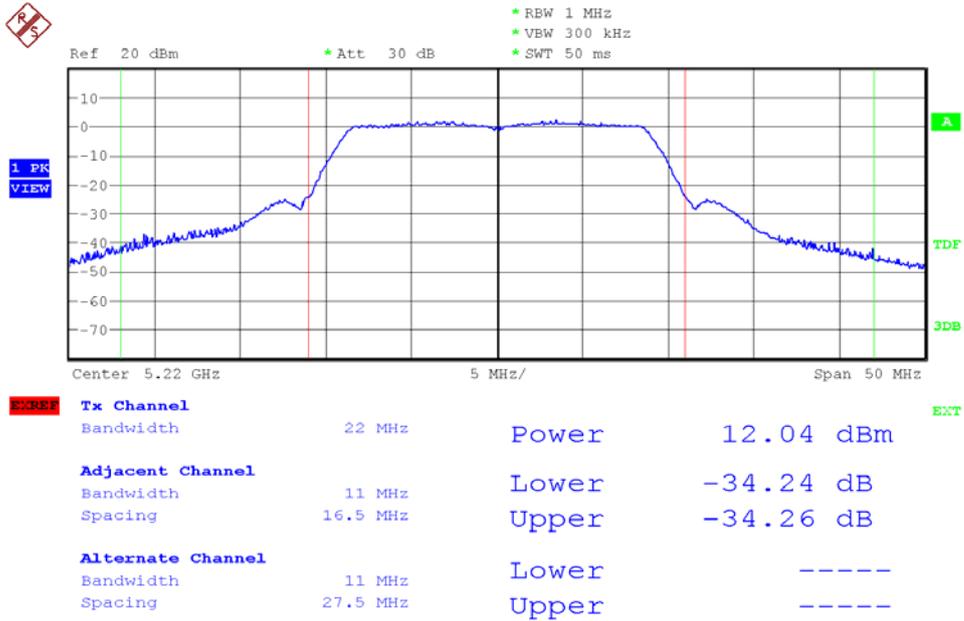


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 36

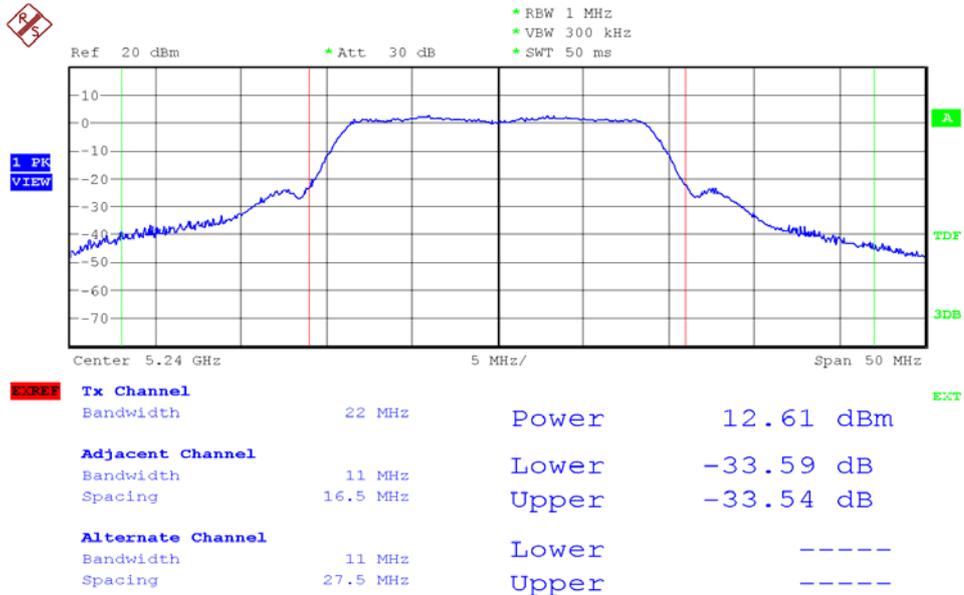




Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 44

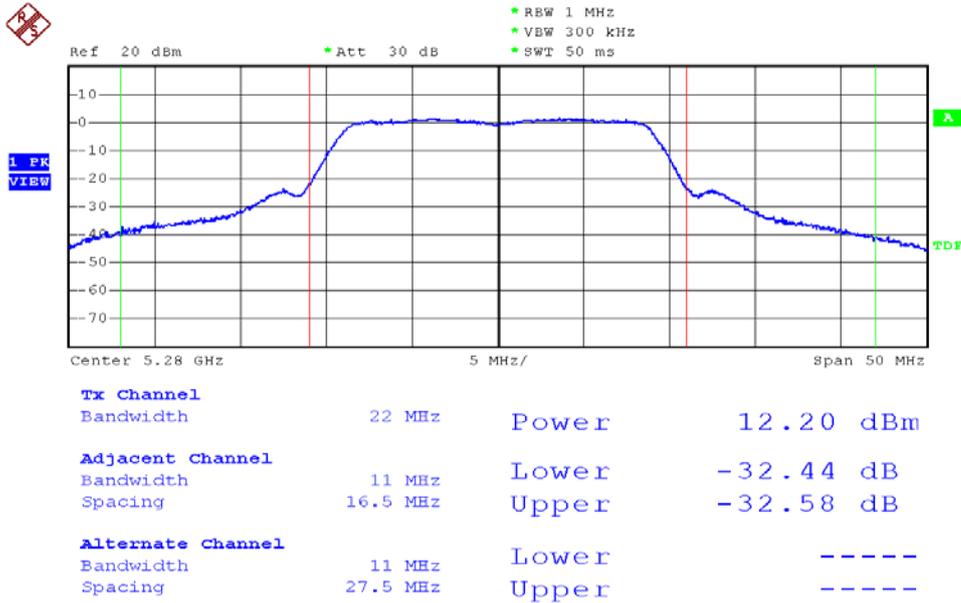


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 48

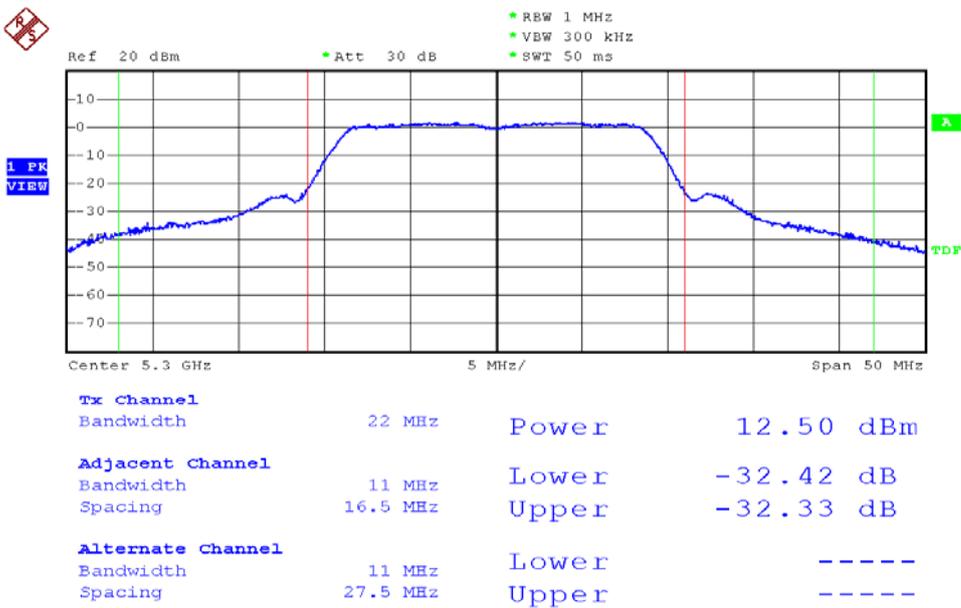




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 56

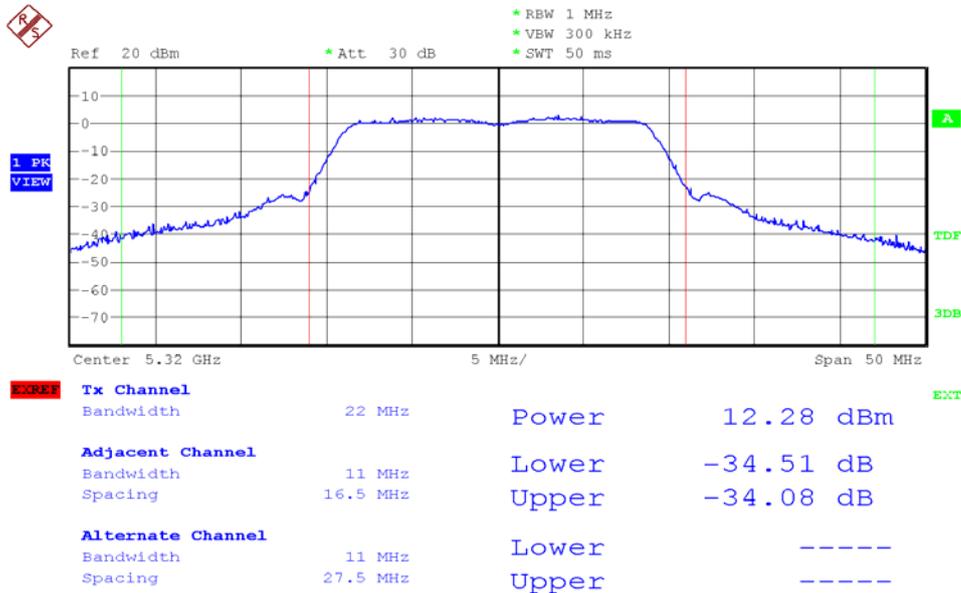


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 60

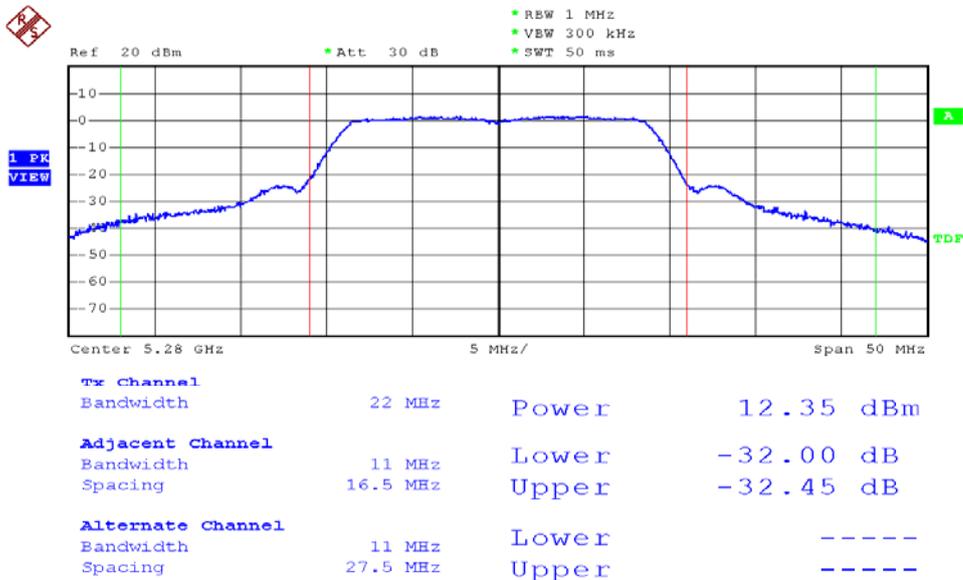




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 64

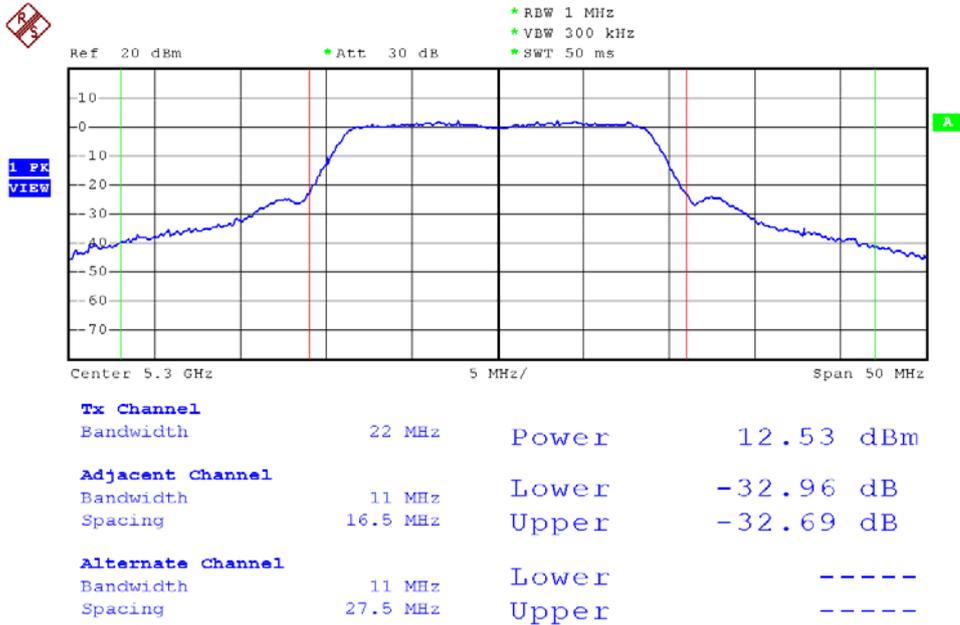


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 56

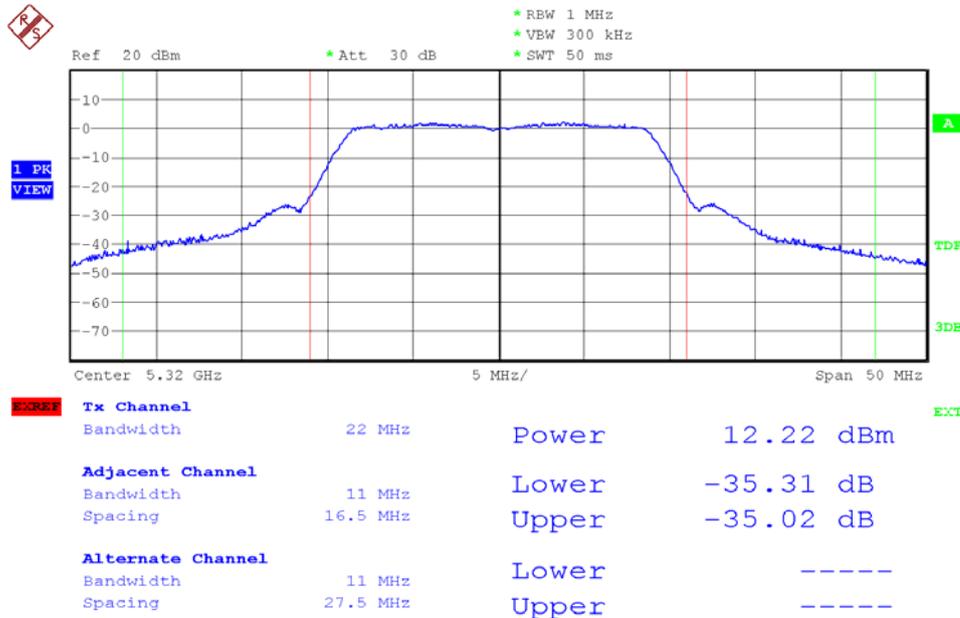




Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 60

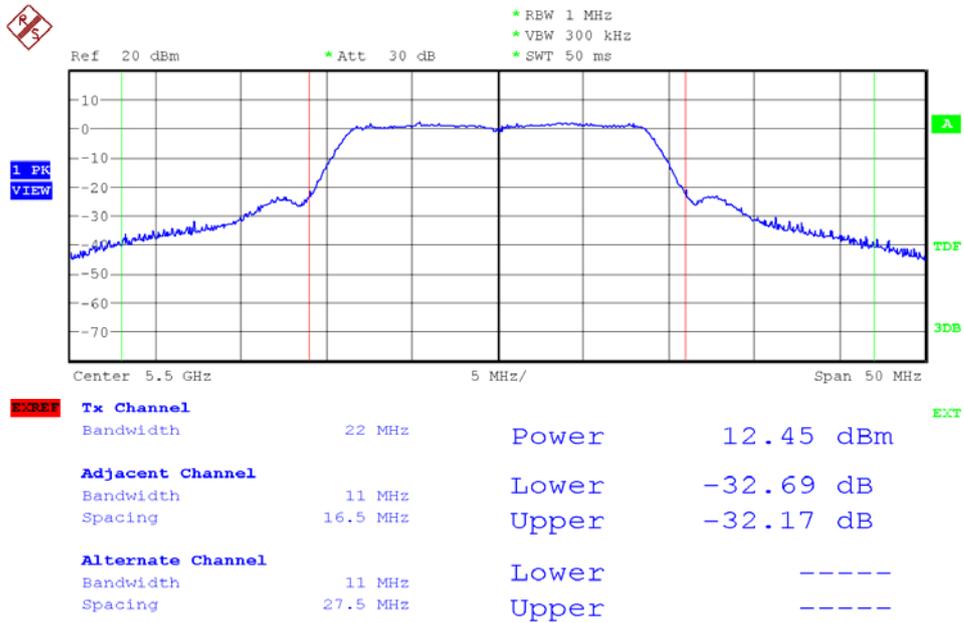


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 64

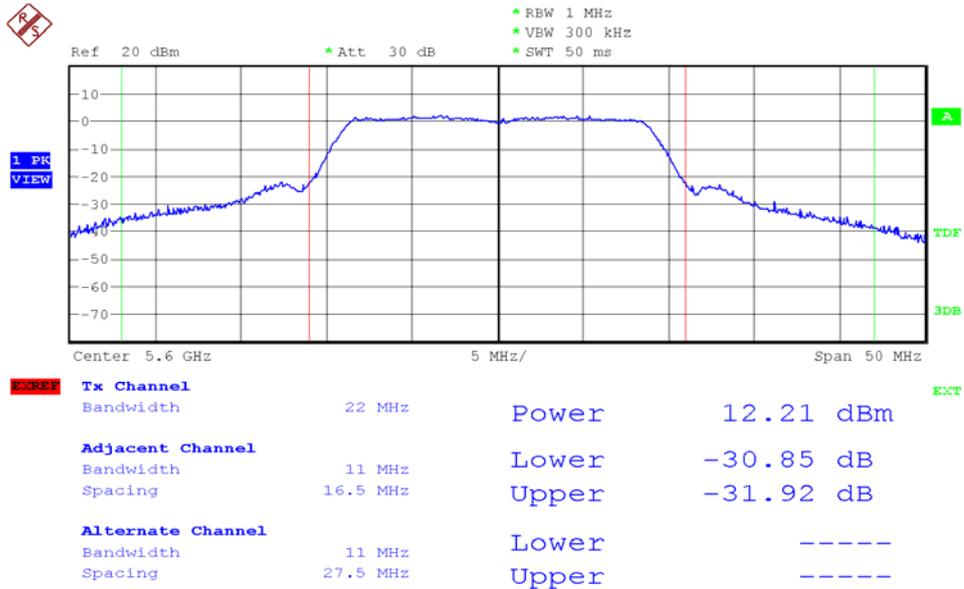




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 100

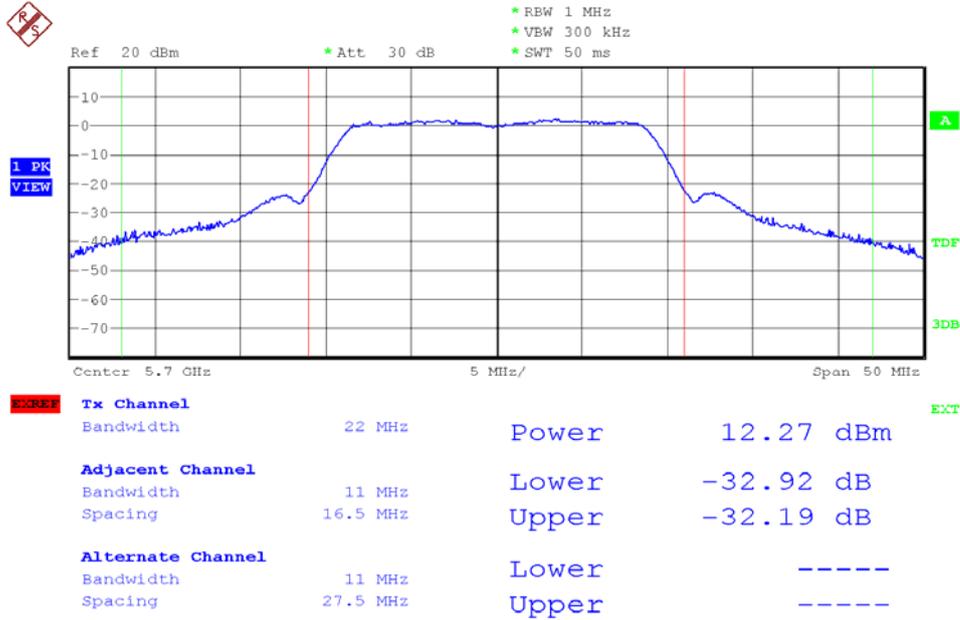


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 120

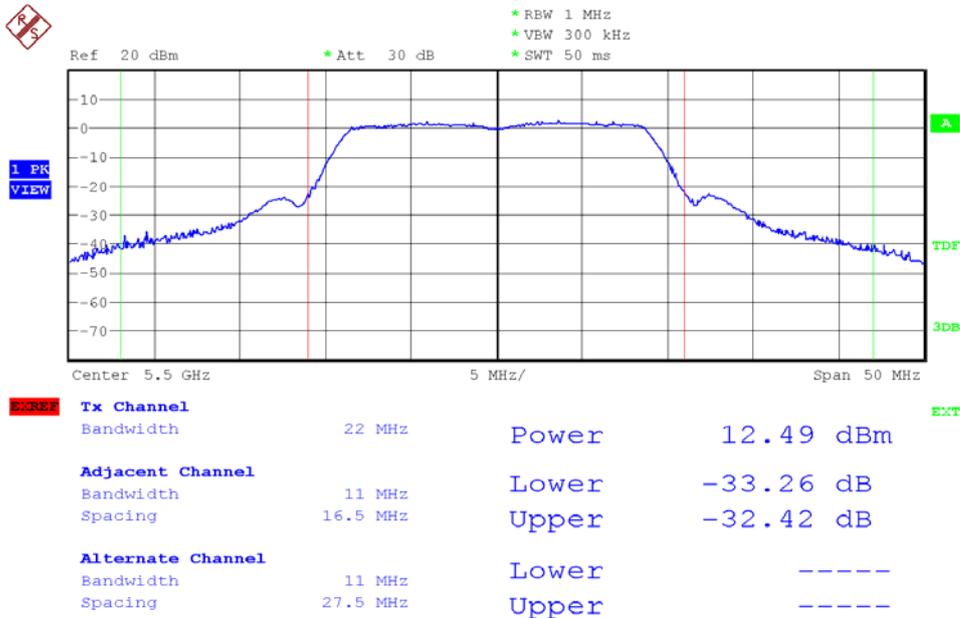




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 140

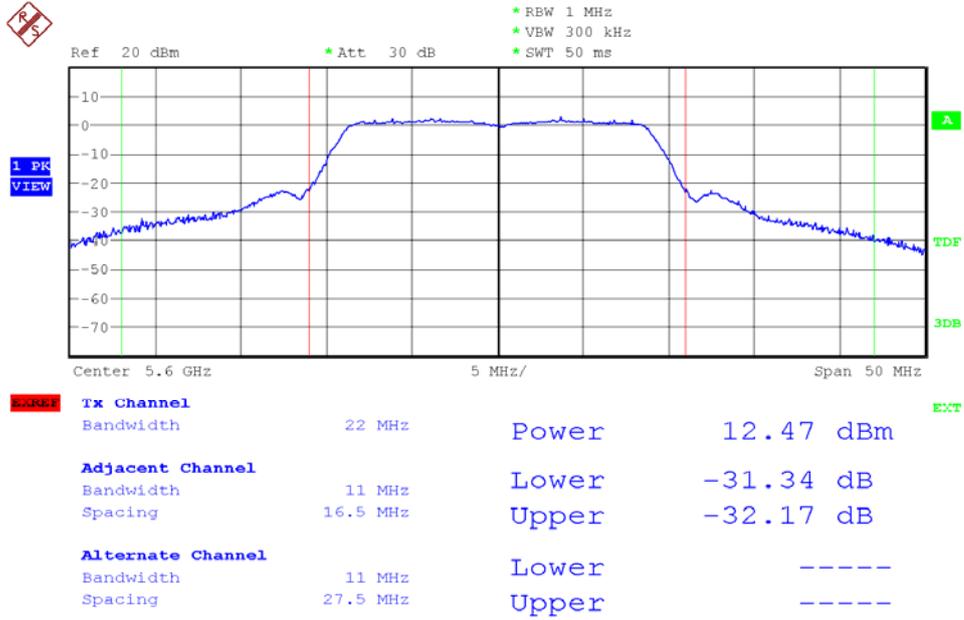


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 100

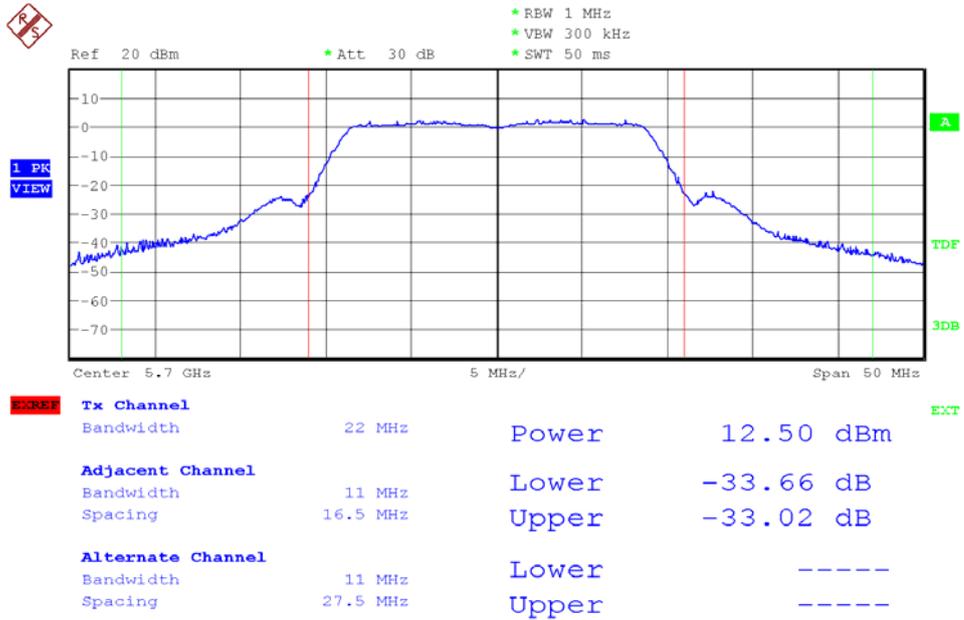




Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 120

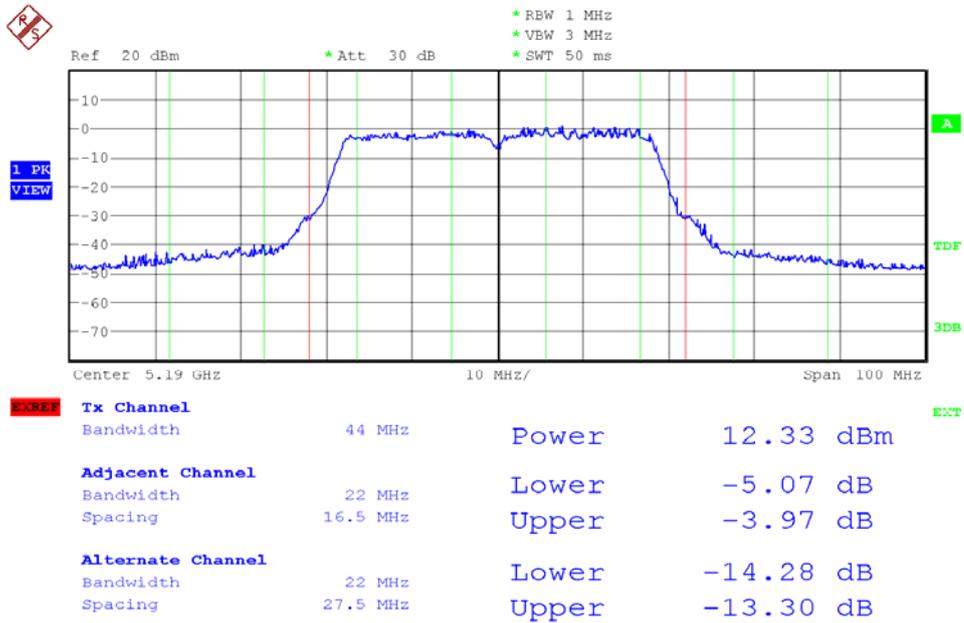


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 140

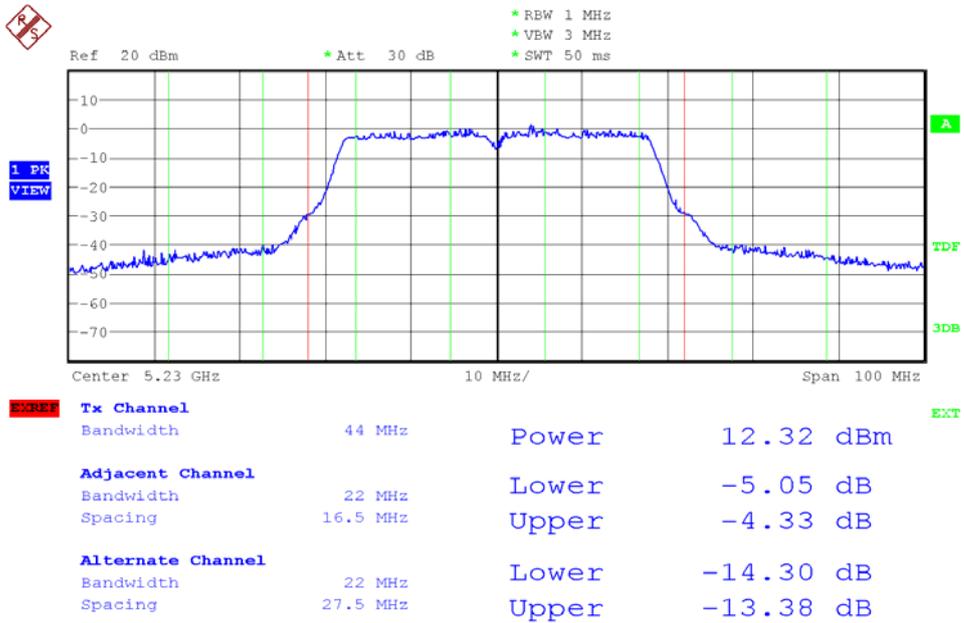




Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 38

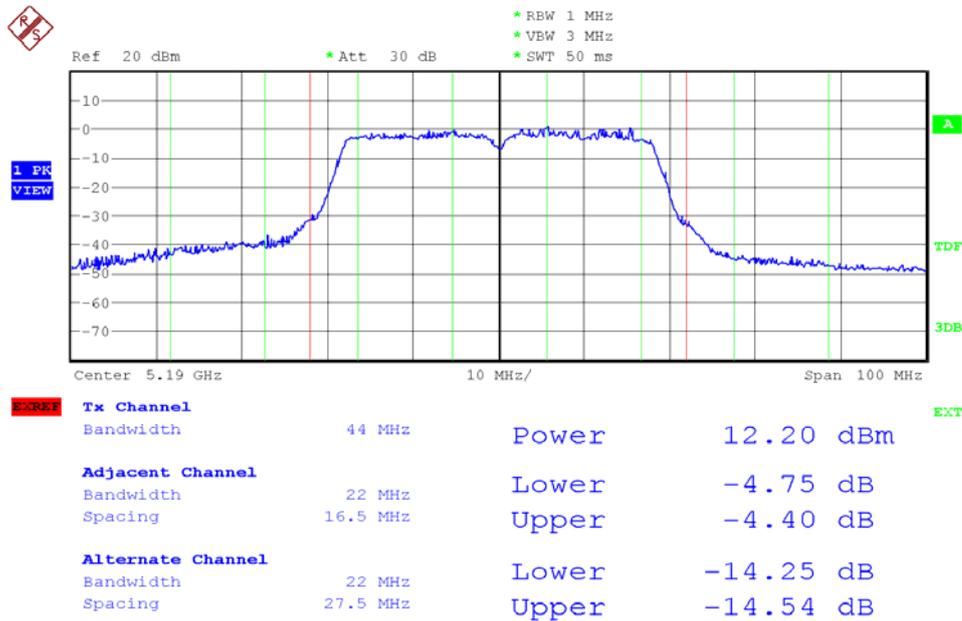


Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 46

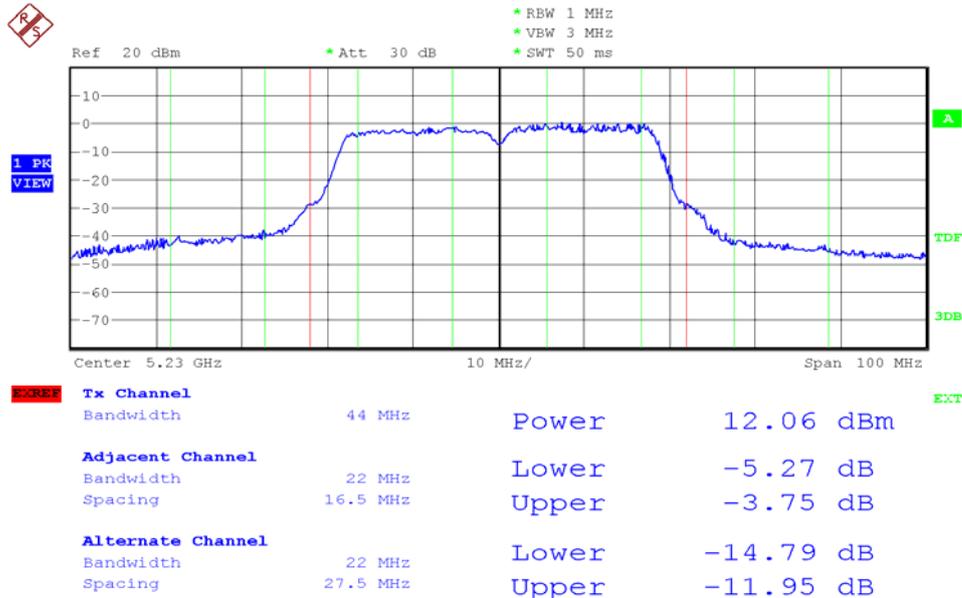




Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 38

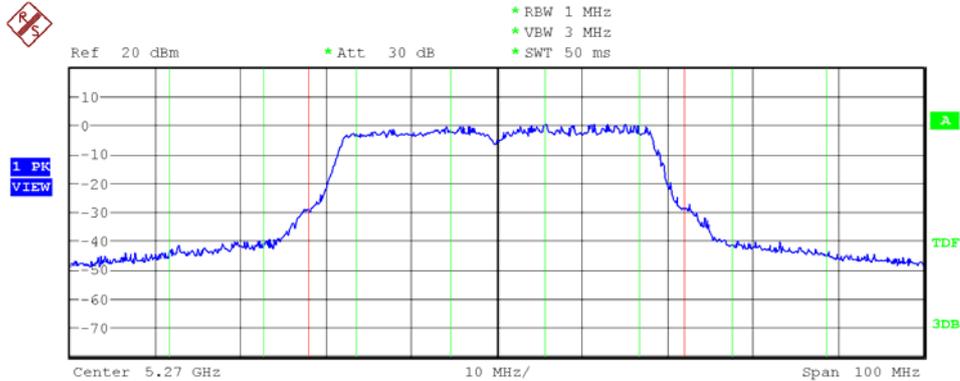


Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 46



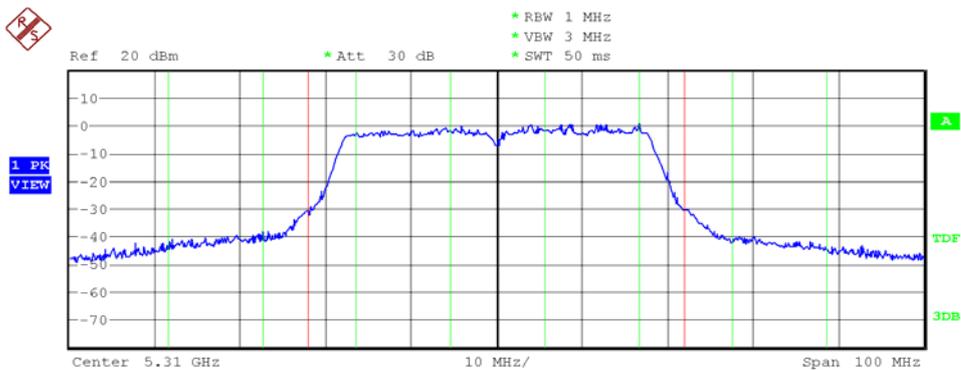


Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 54



Tx Channel		Power	12.34 dBm
Bandwidth	44 MHz		
Adjacent Channel		Lower	-5.20 dB
Bandwidth	22 MHz	Upper	-3.88 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-14.47 dB
Bandwidth	22 MHz	Upper	-12.61 dB
Spacing	27.5 MHz		

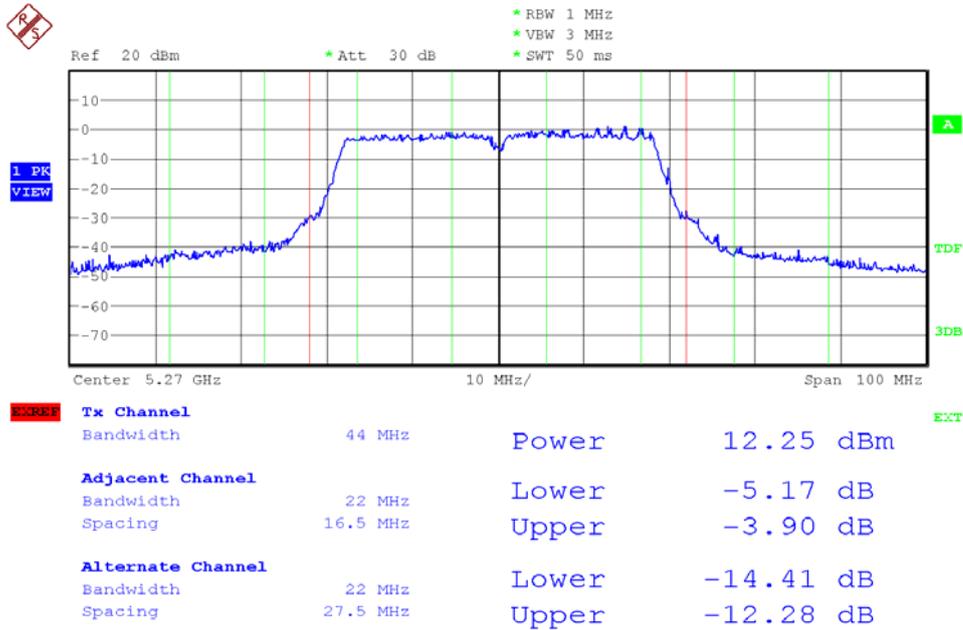
Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 62



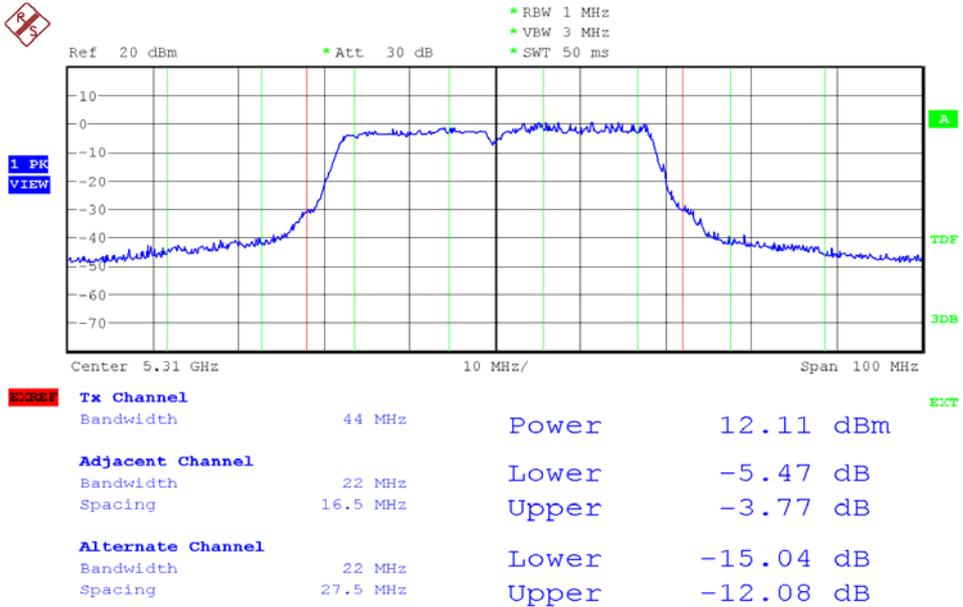
Tx Channel		Power	12.26 dBm
Bandwidth	44 MHz		
Adjacent Channel		Lower	-5.18 dB
Bandwidth	22 MHz	Upper	-3.99 dB
Spacing	16.5 MHz		
Alternate Channel		Lower	-14.78 dB
Bandwidth	22 MHz	Upper	-12.78 dB
Spacing	27.5 MHz		



Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 54

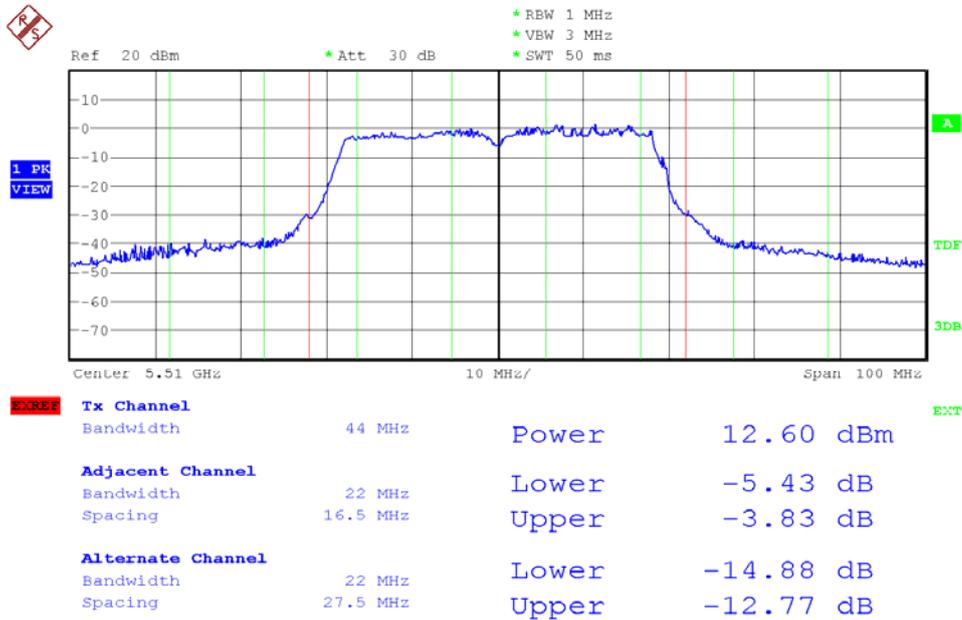


Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 62

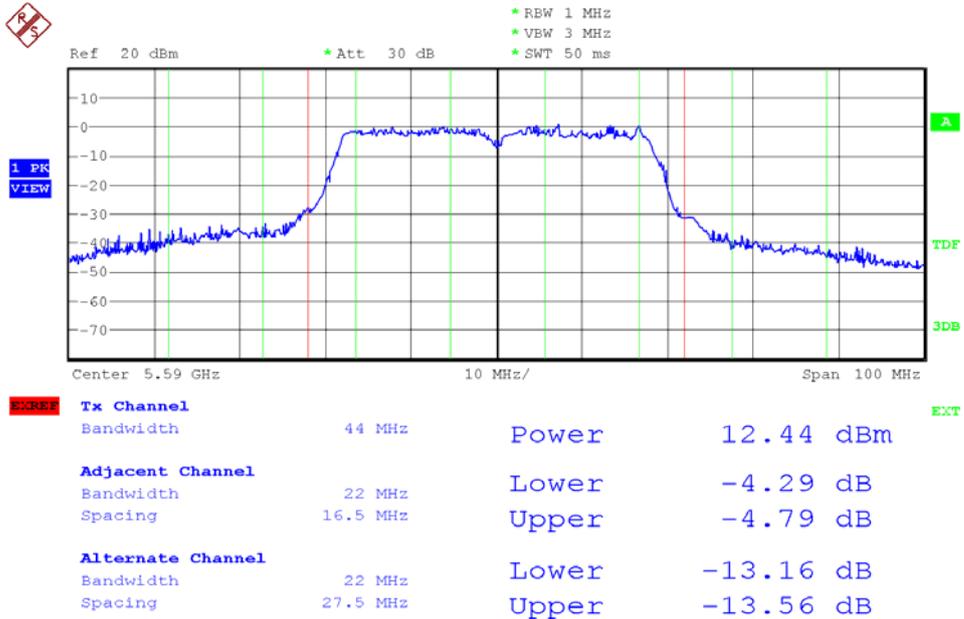




Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 102

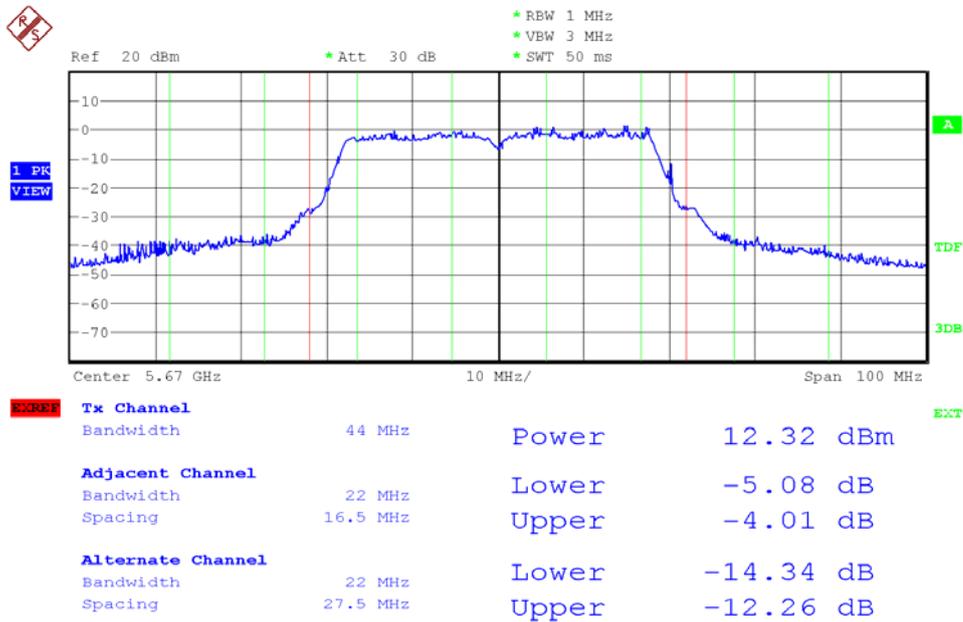


Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 118

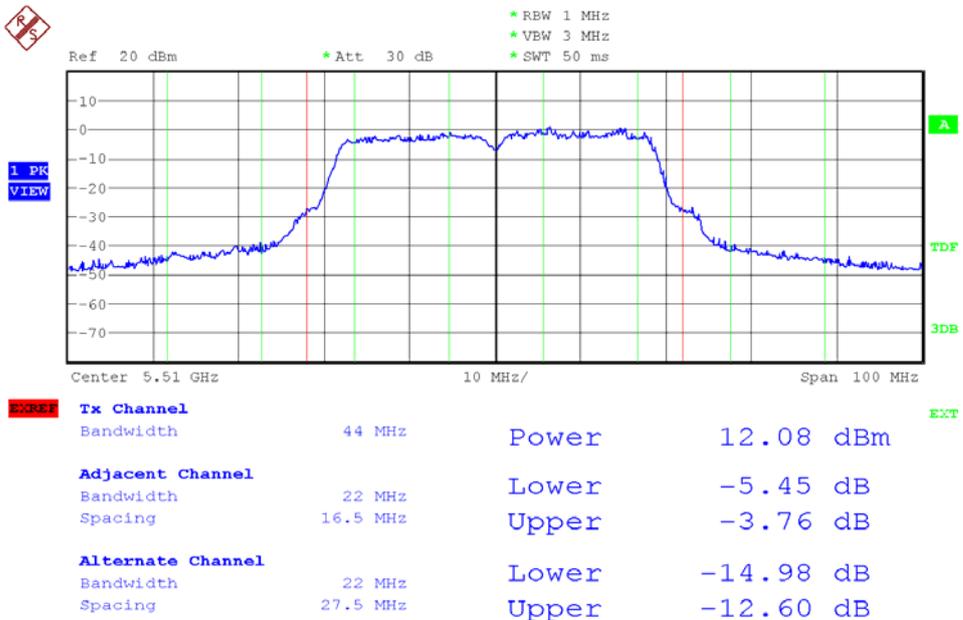




Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 134

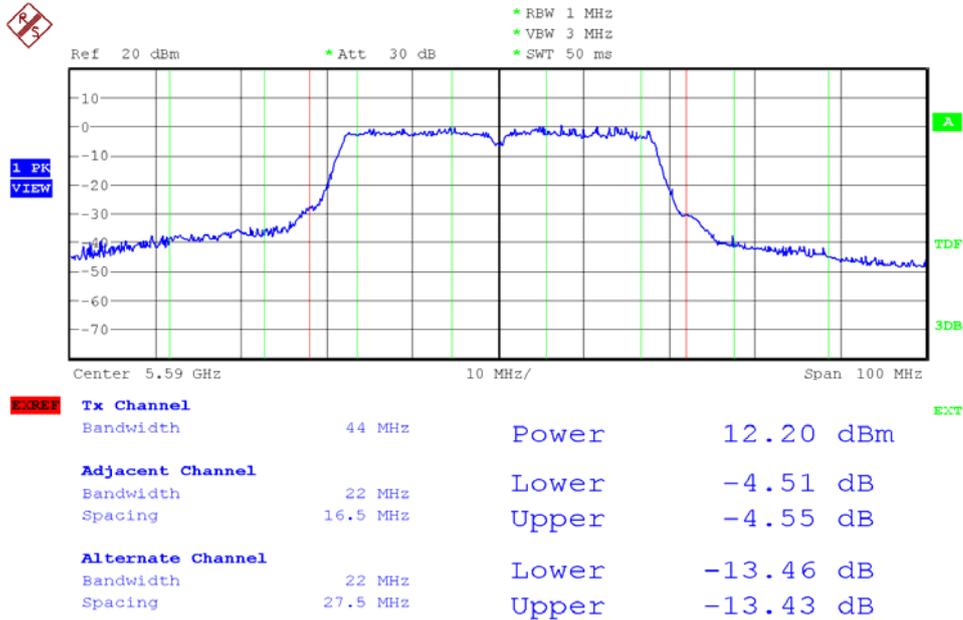


Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 102

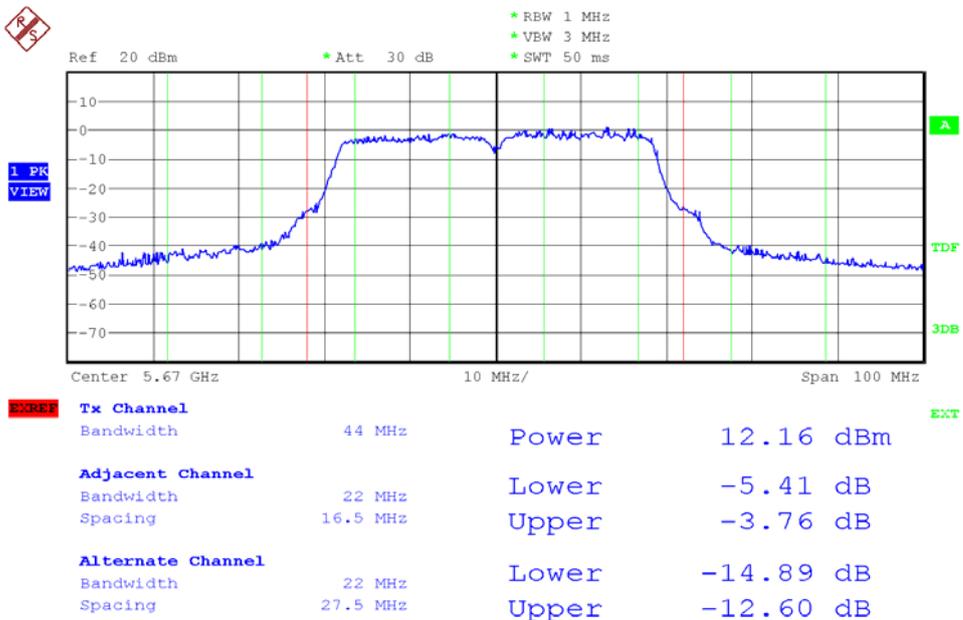




Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 118



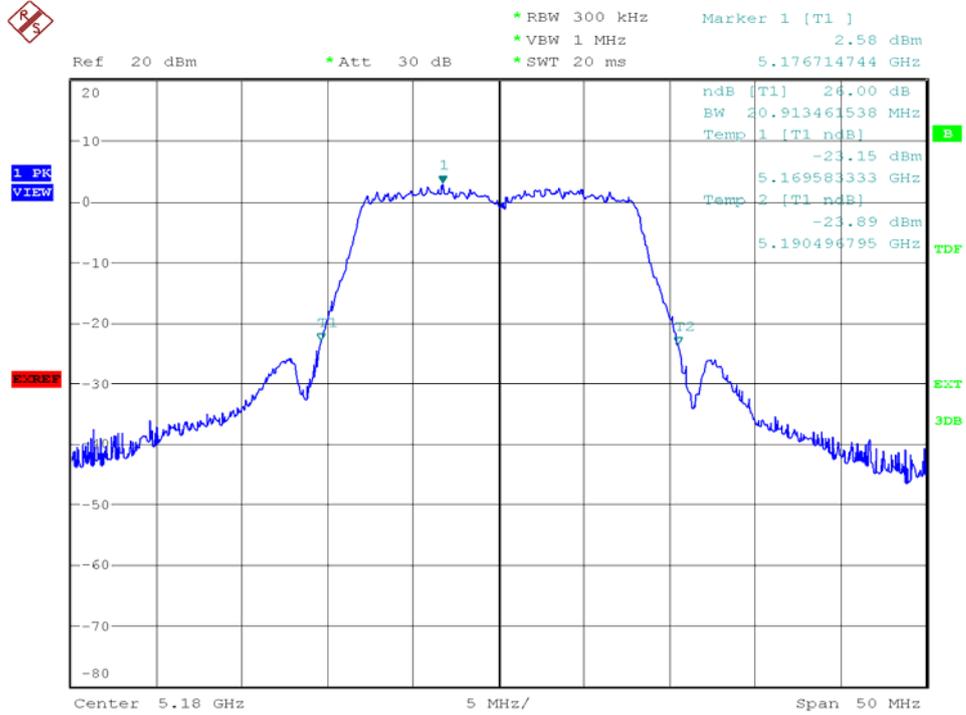
Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 134



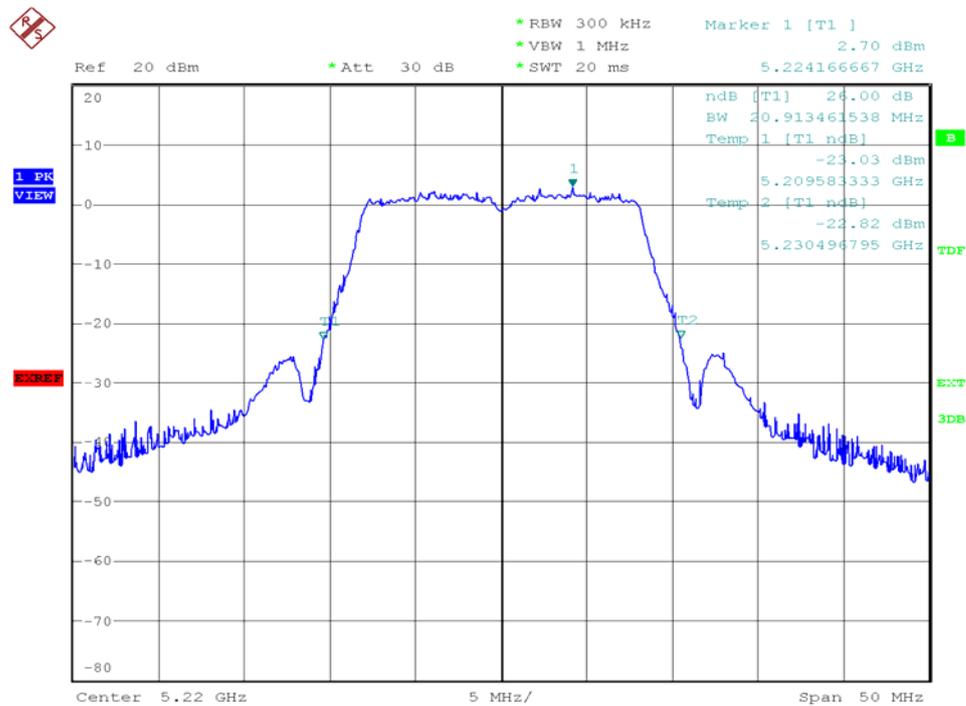


26dB Occupied Bandwidth

Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 36

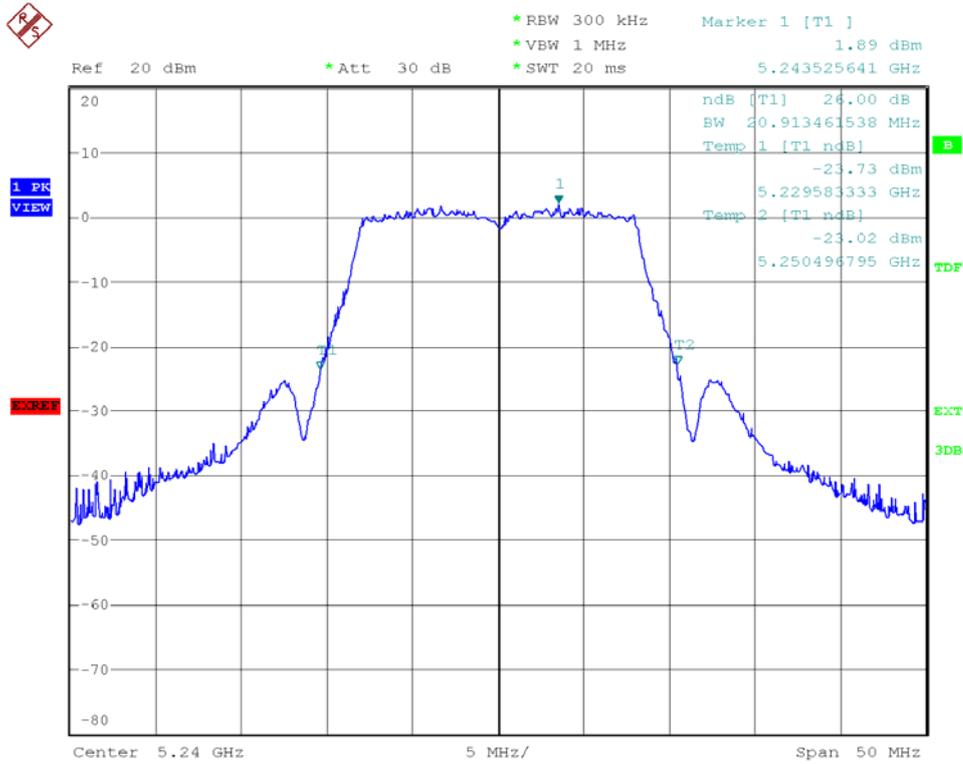


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 44

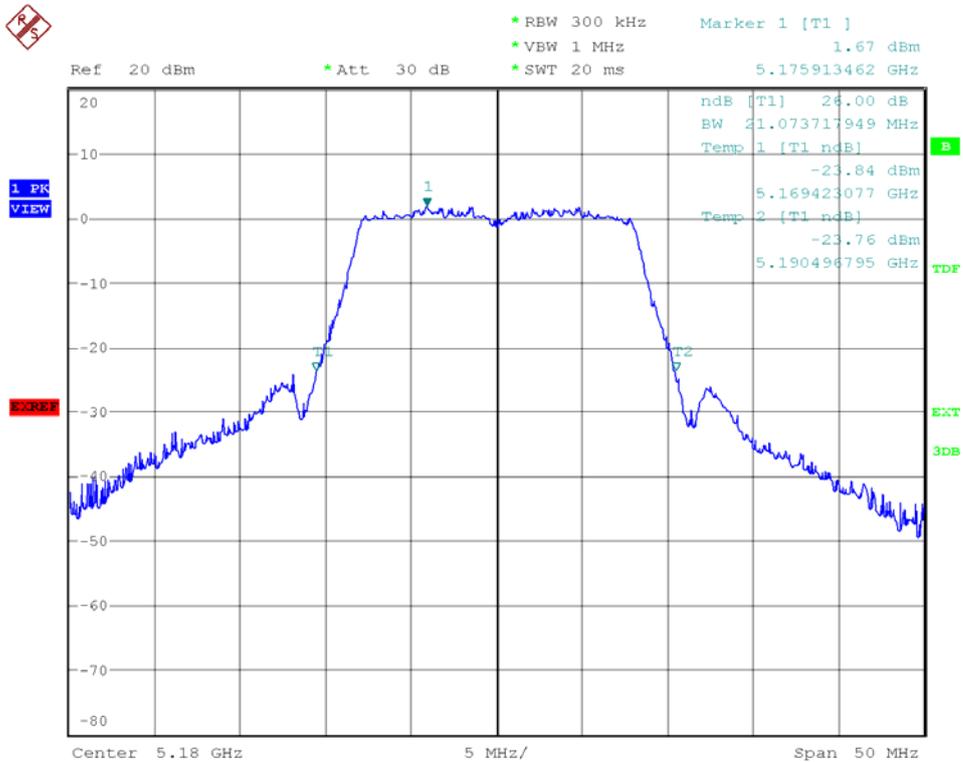




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 48

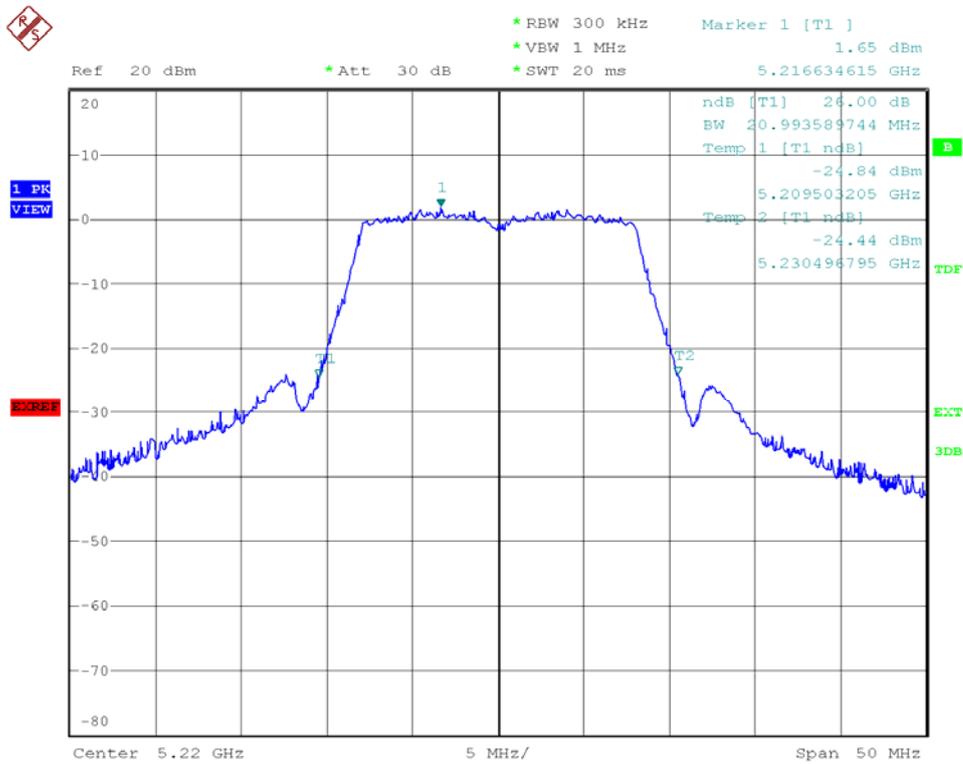


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 36

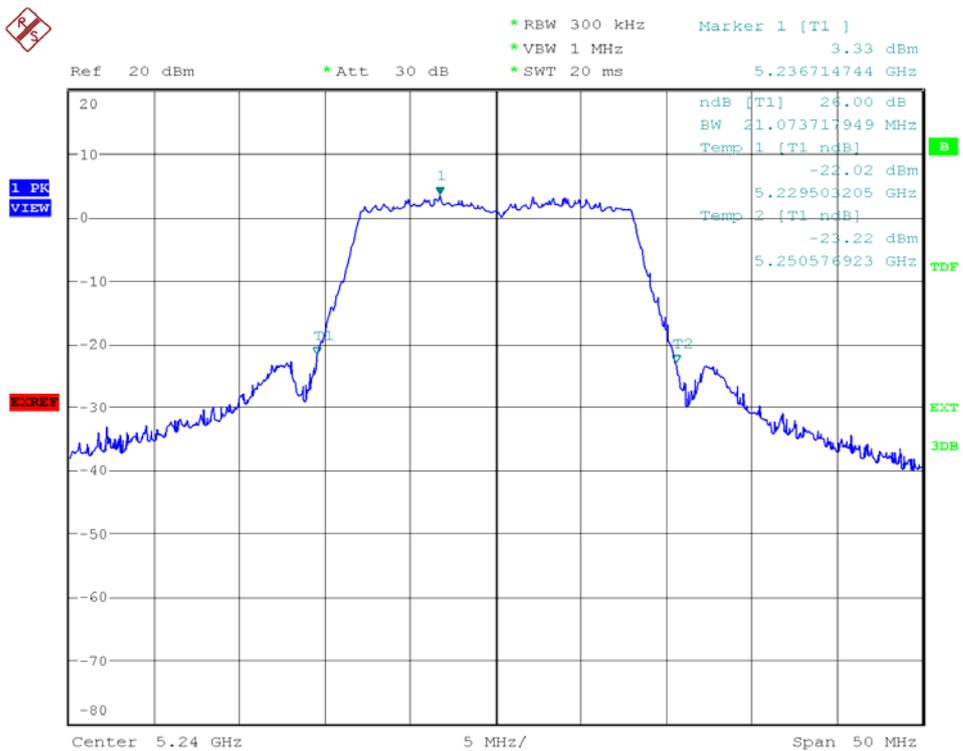




Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 44

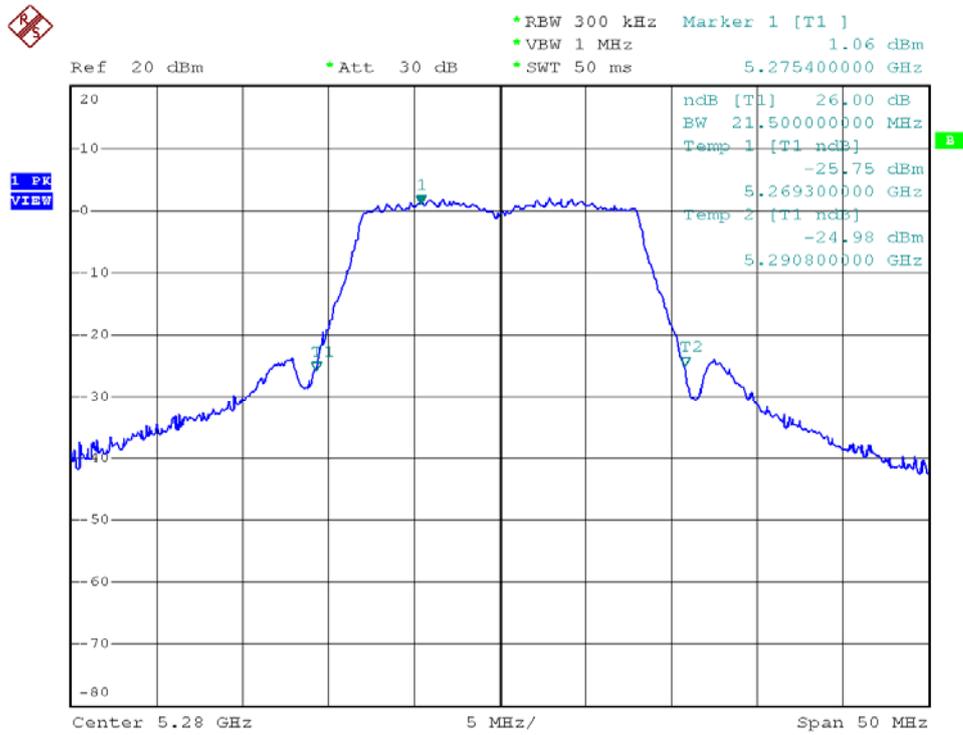


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 48

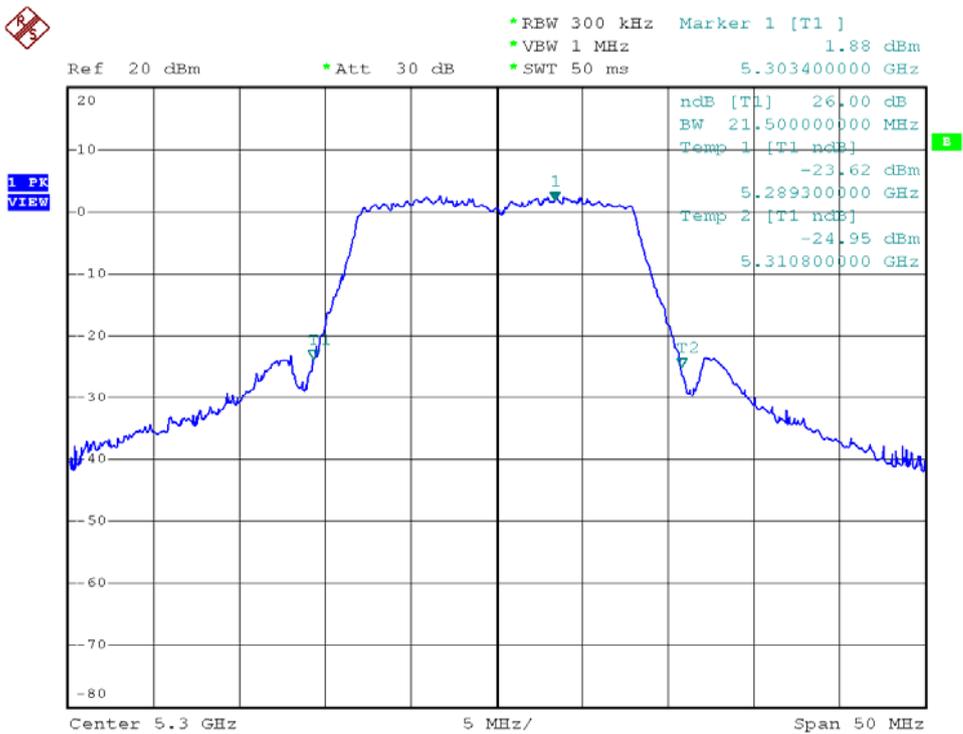




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 56

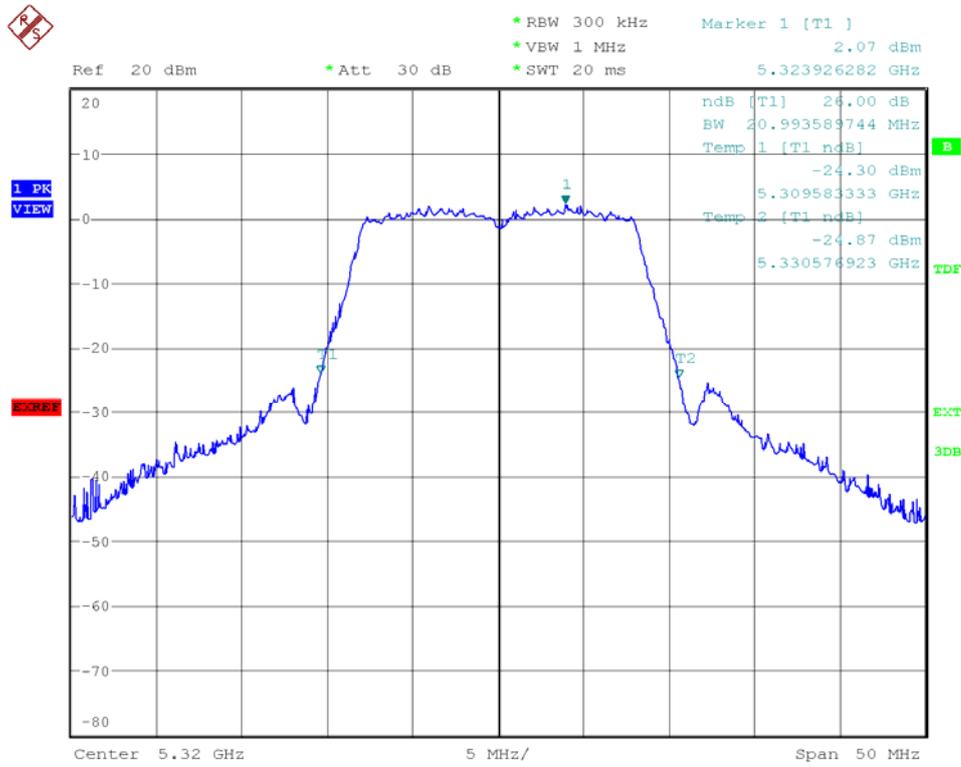


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 60

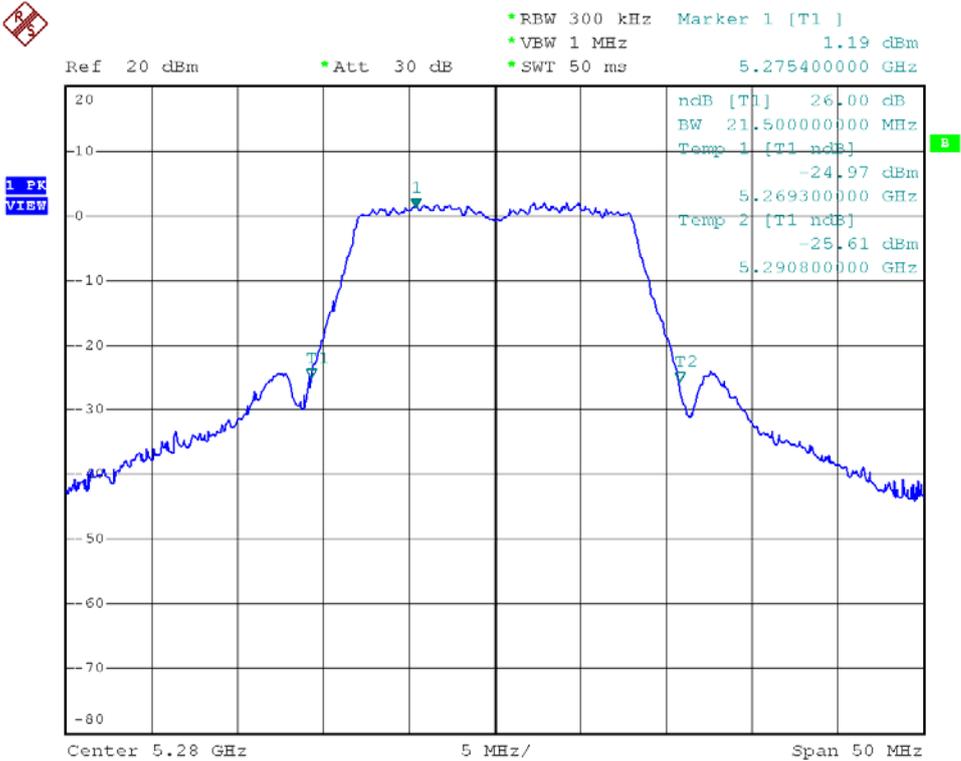




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 64

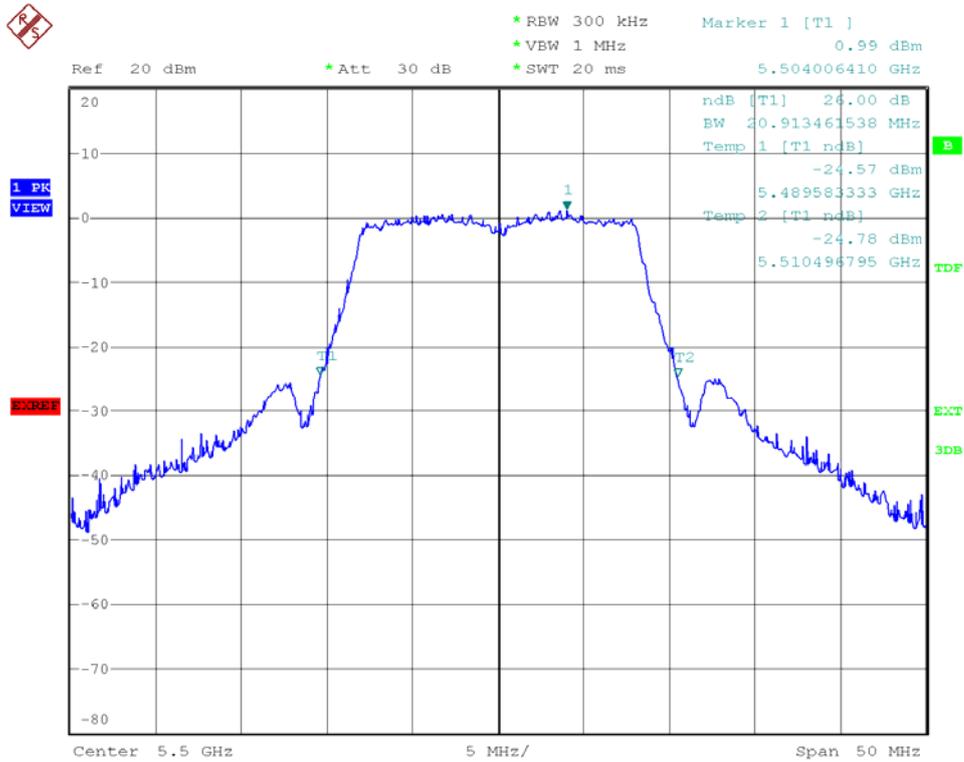


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 56

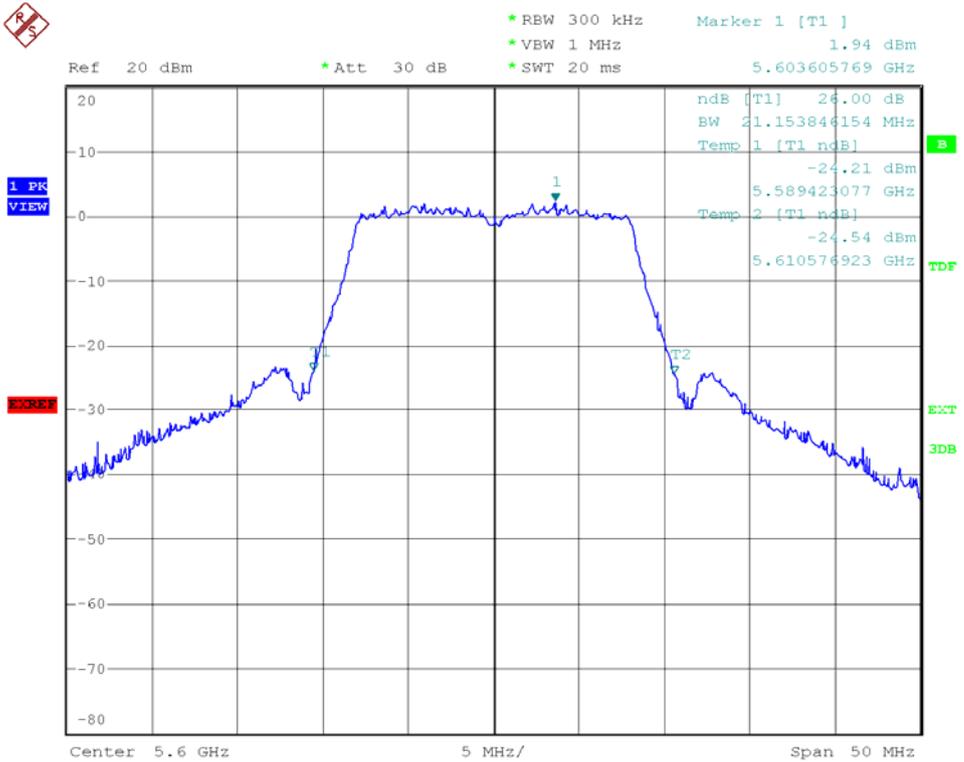




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 100

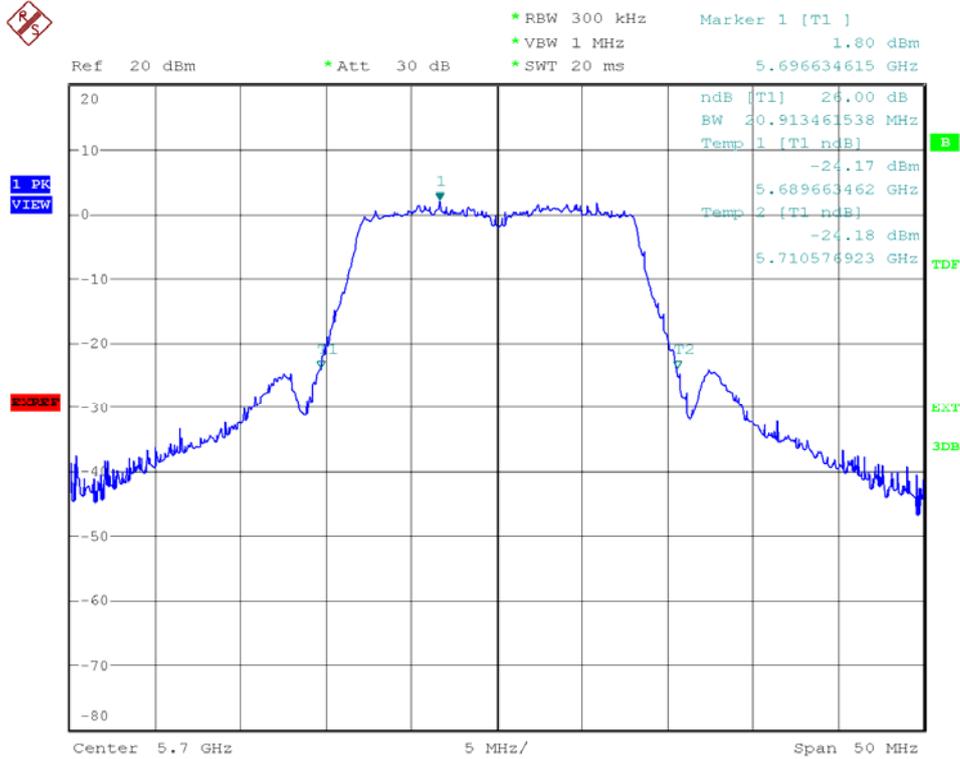


Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 120

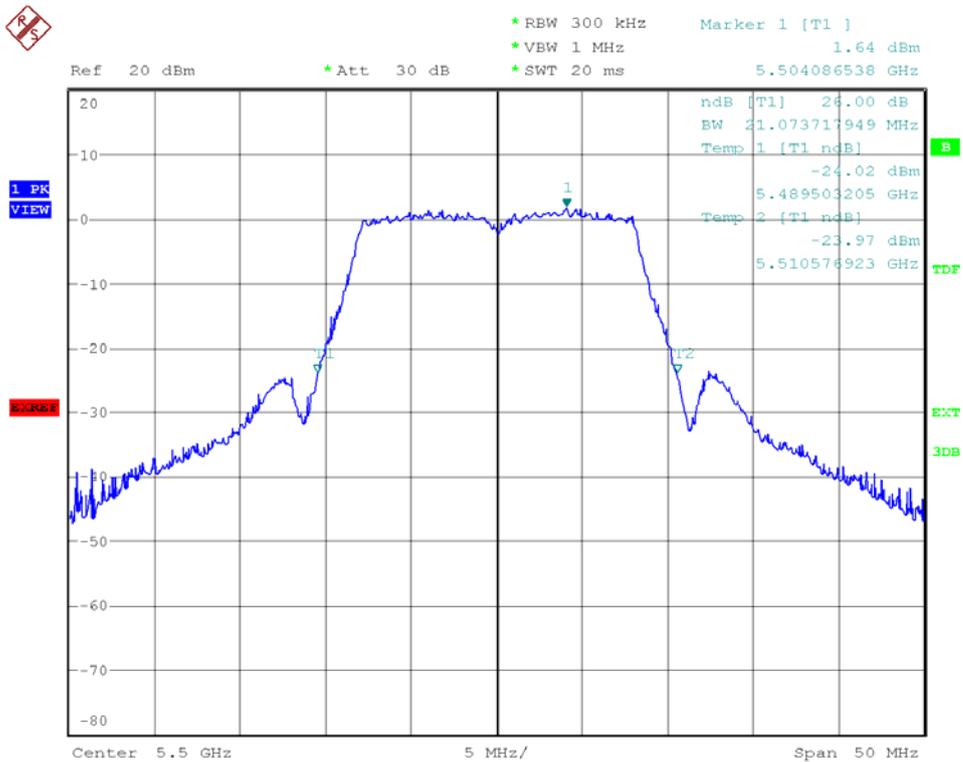




Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 140

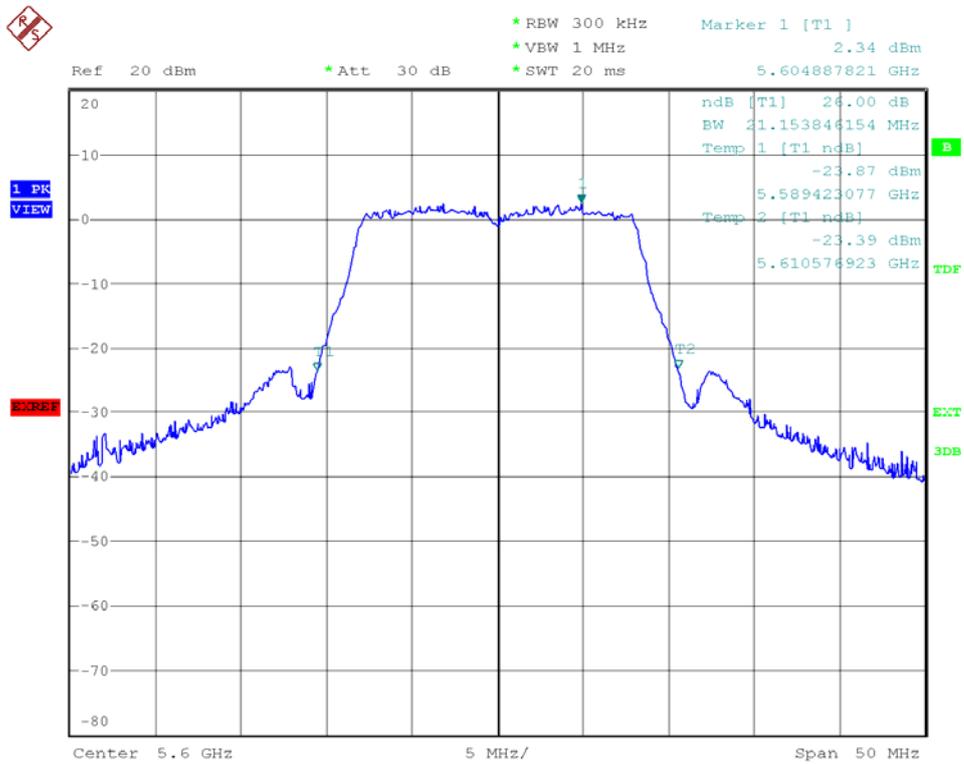


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 100

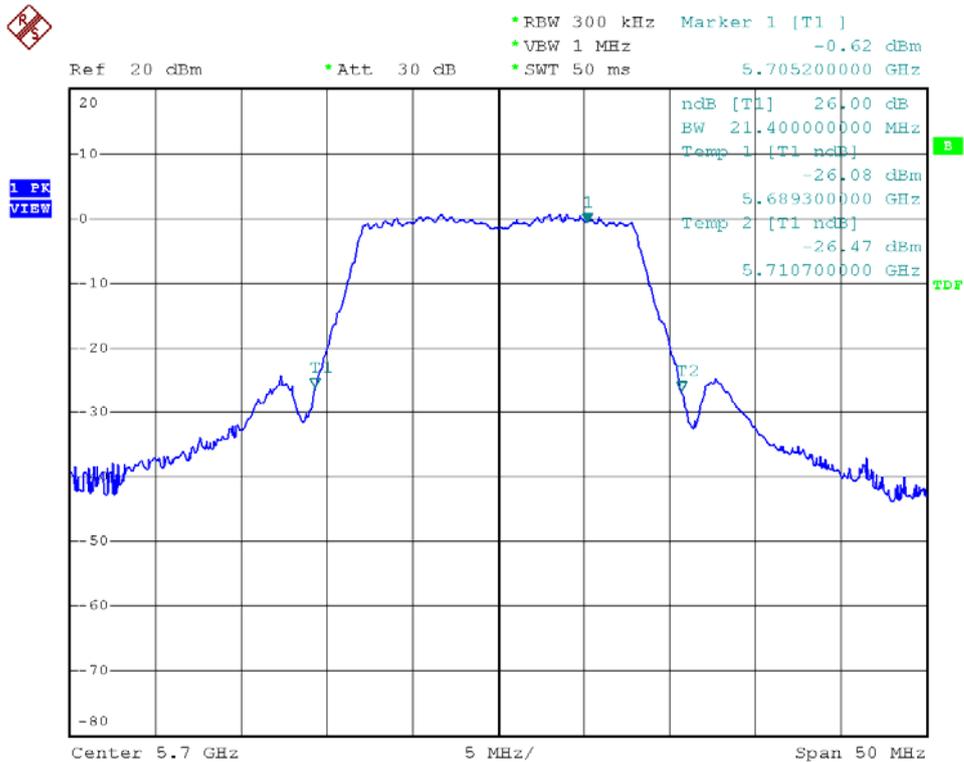




Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 120

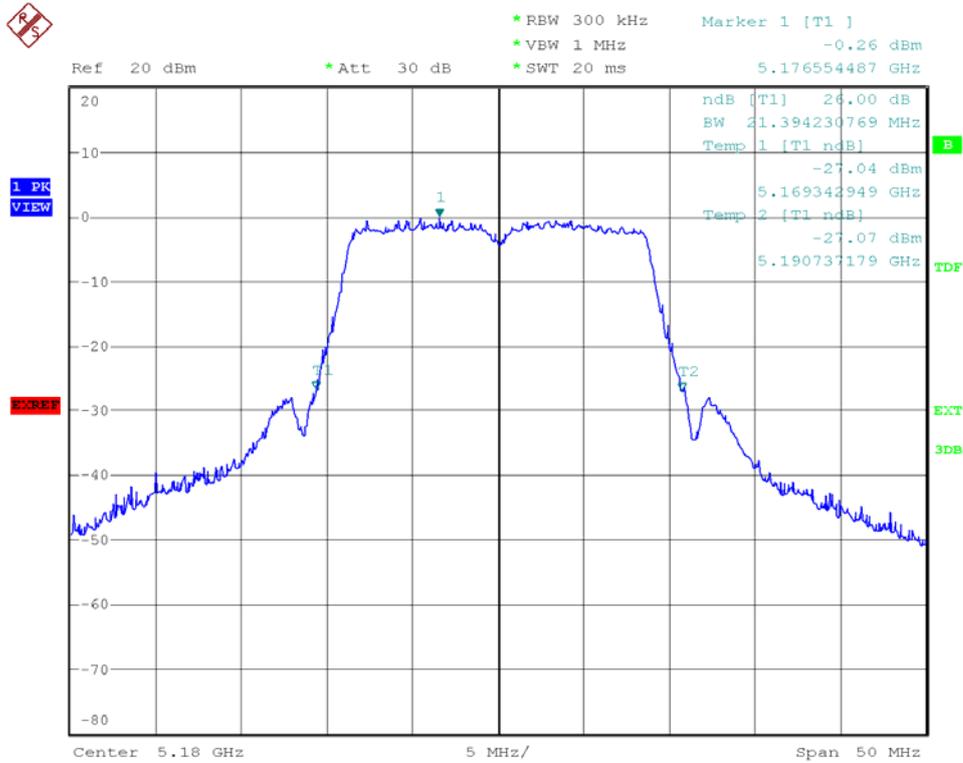


Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 140

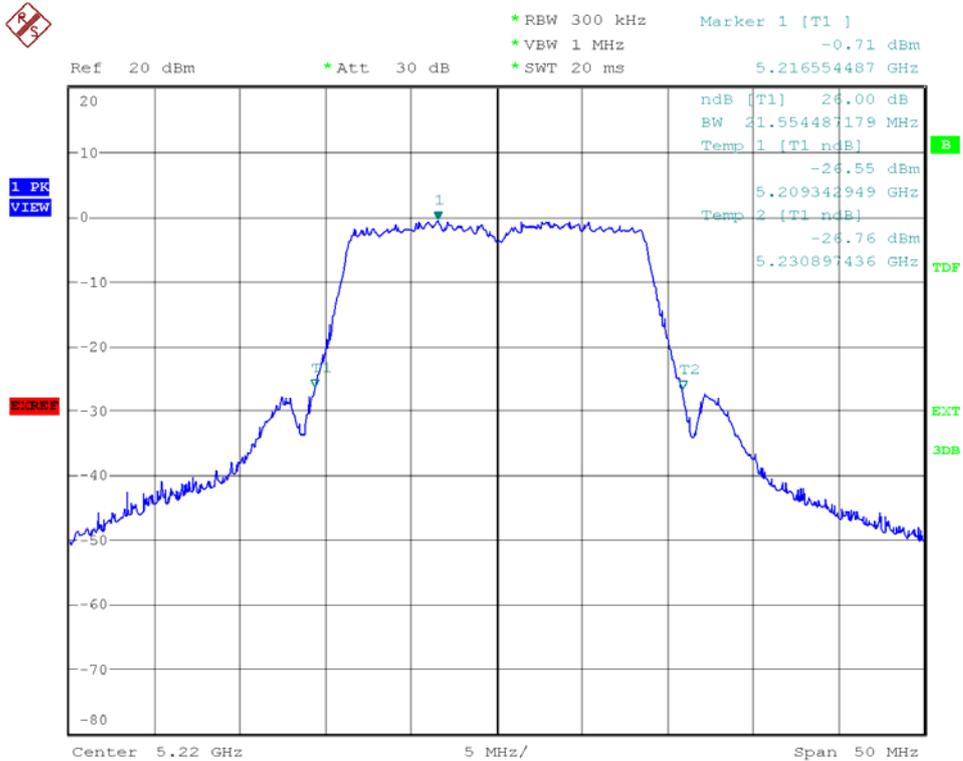




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 36

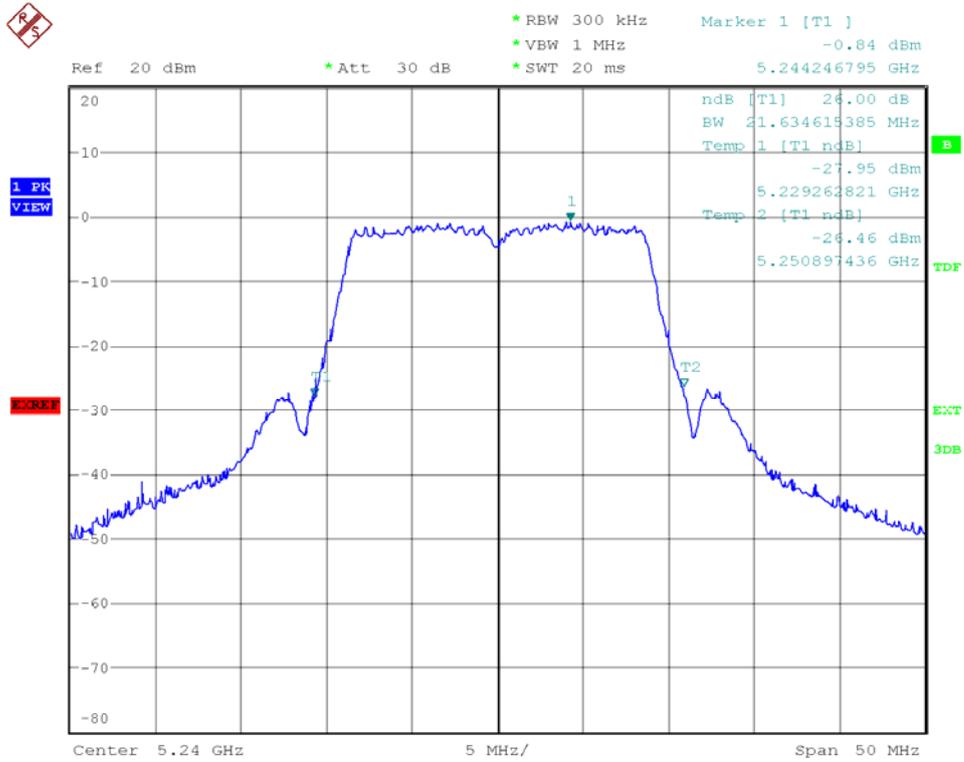


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 44

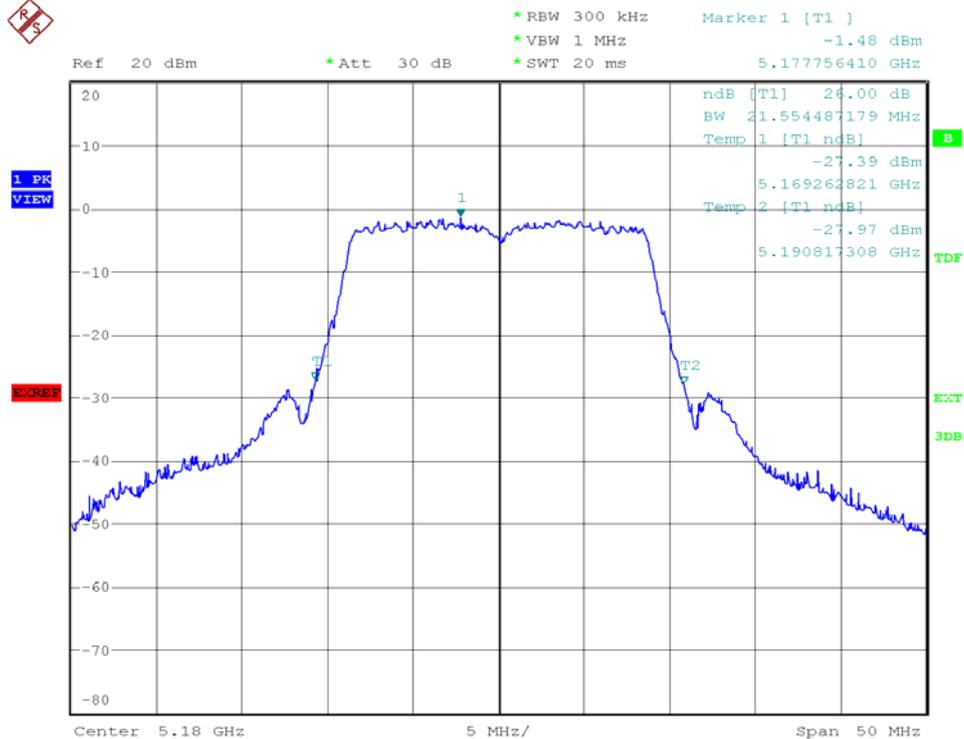




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 48

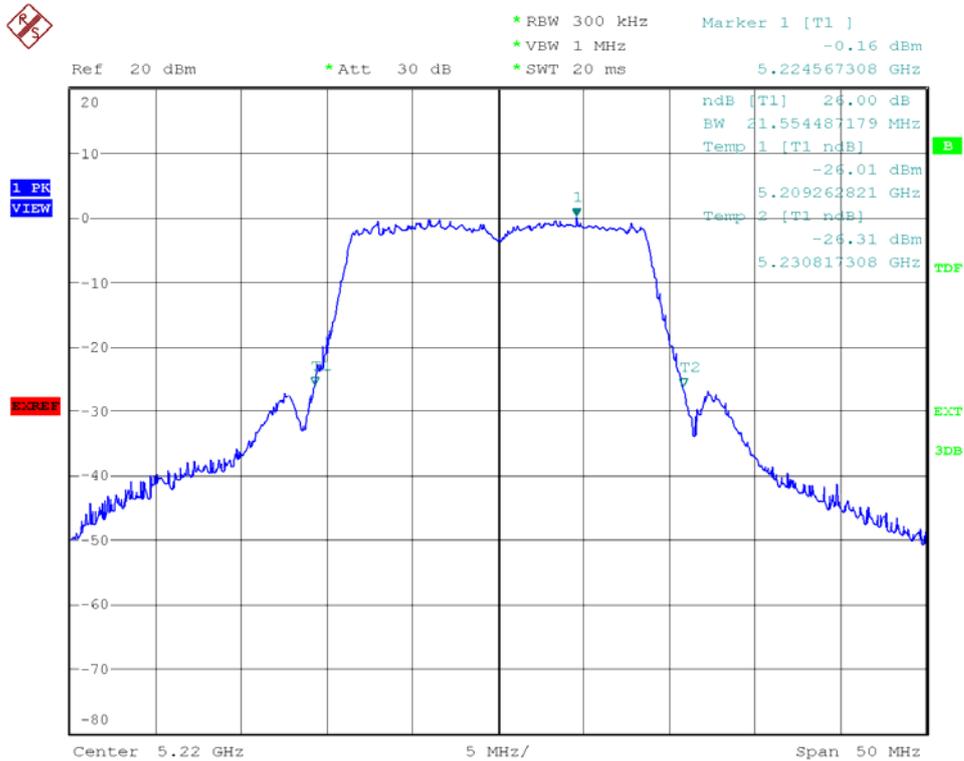


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 36

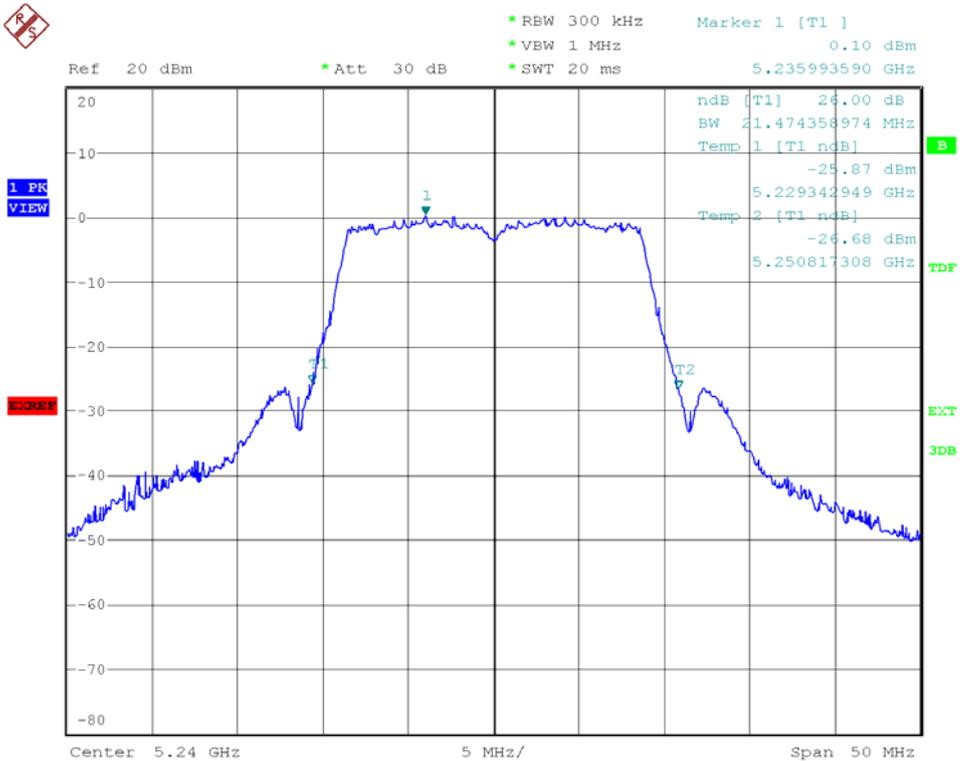




Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 44

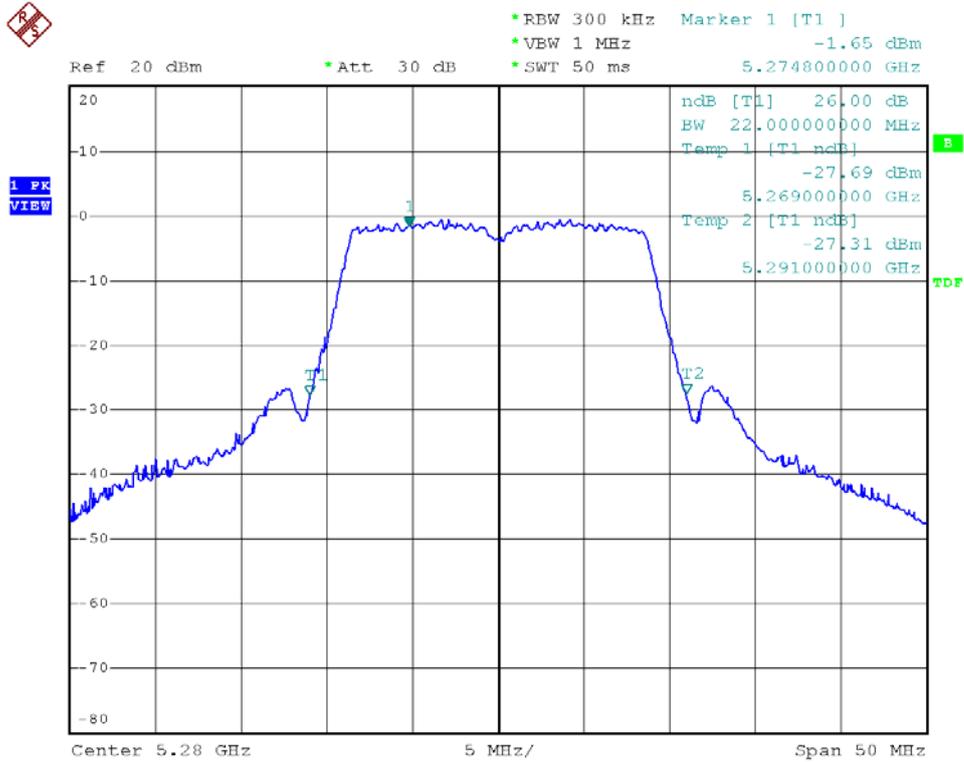


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 48

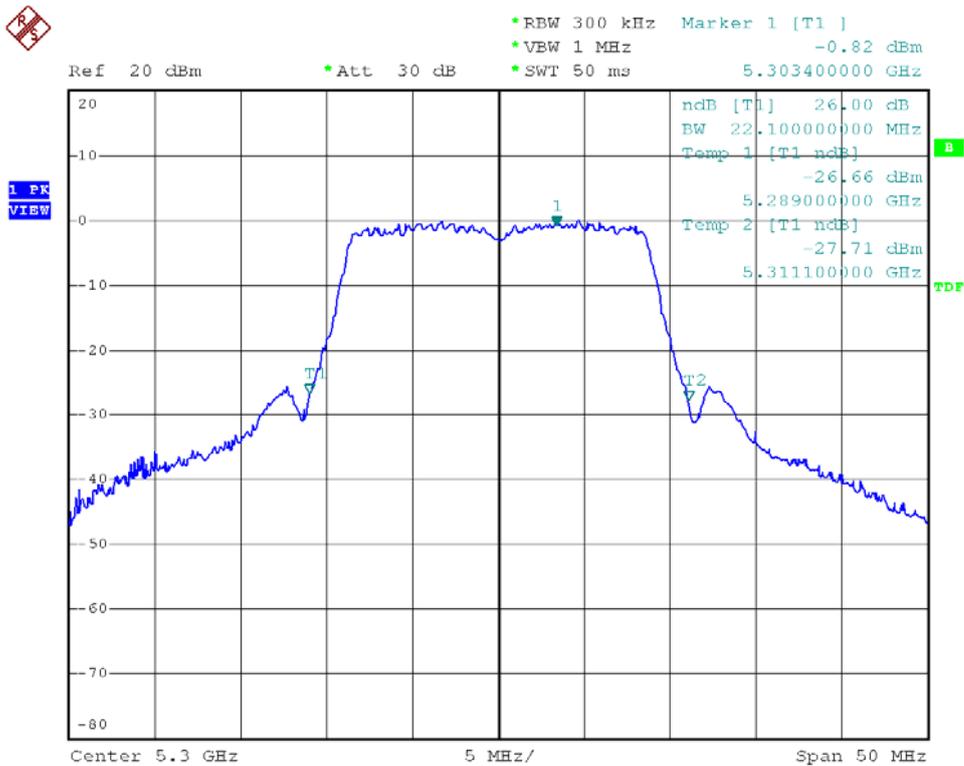




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 56

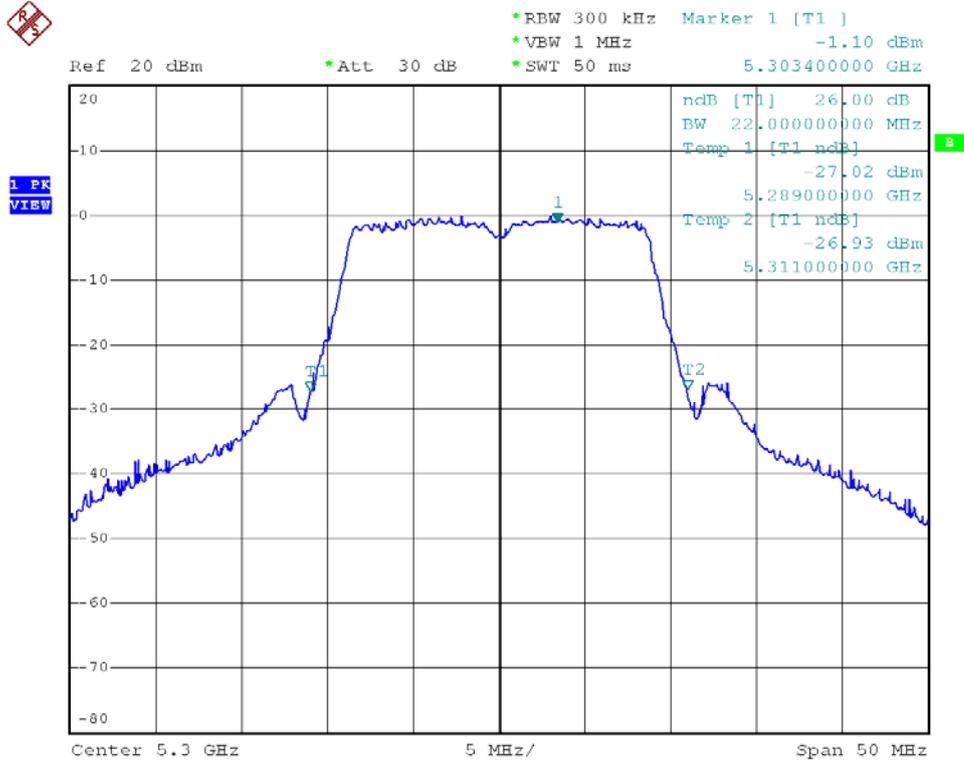


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 60

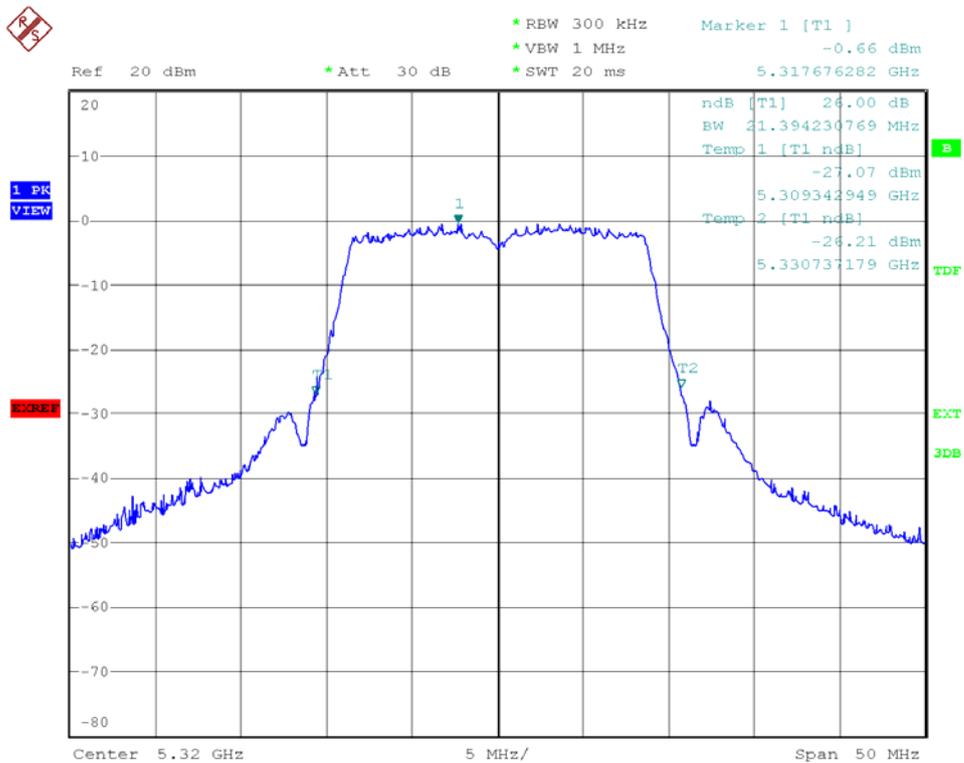




Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 60

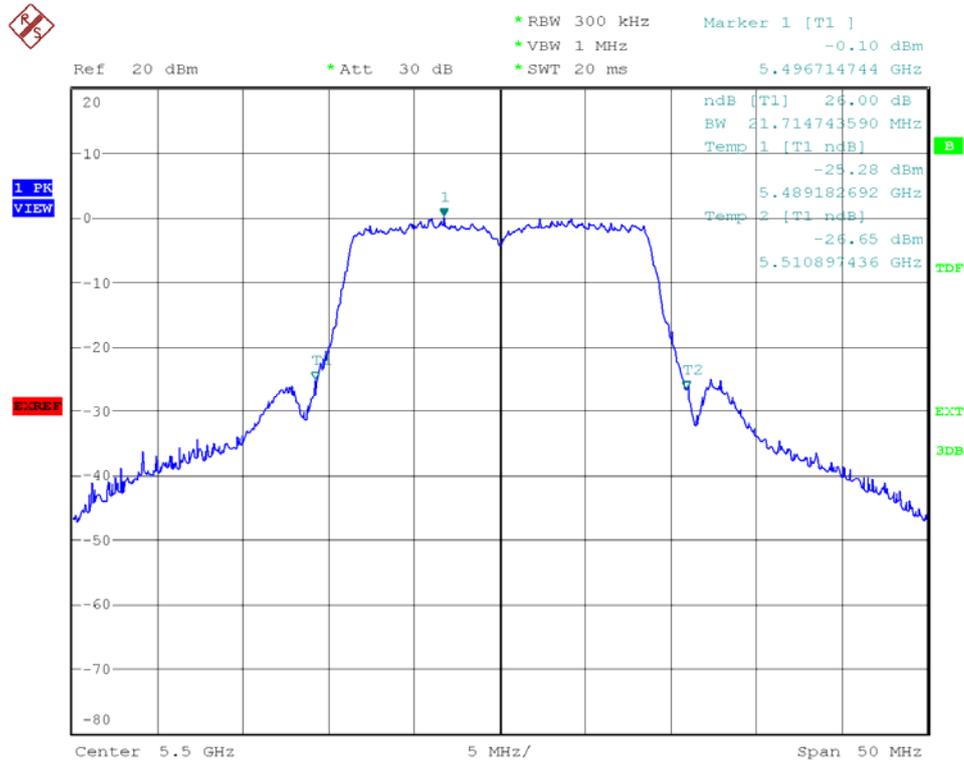


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 64

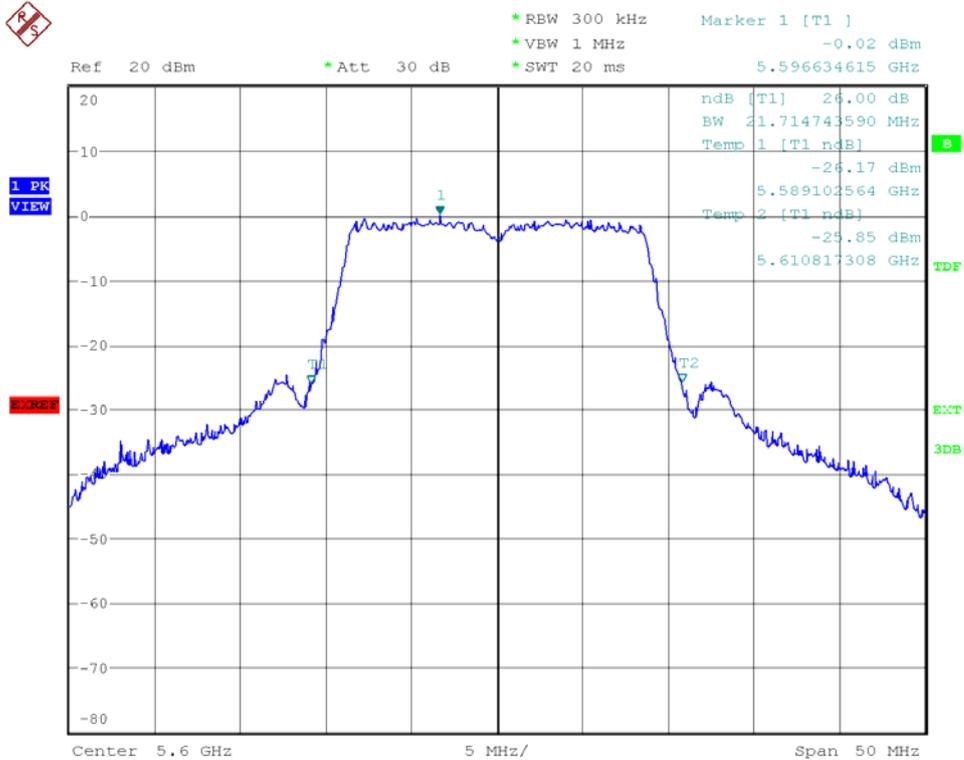




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 100

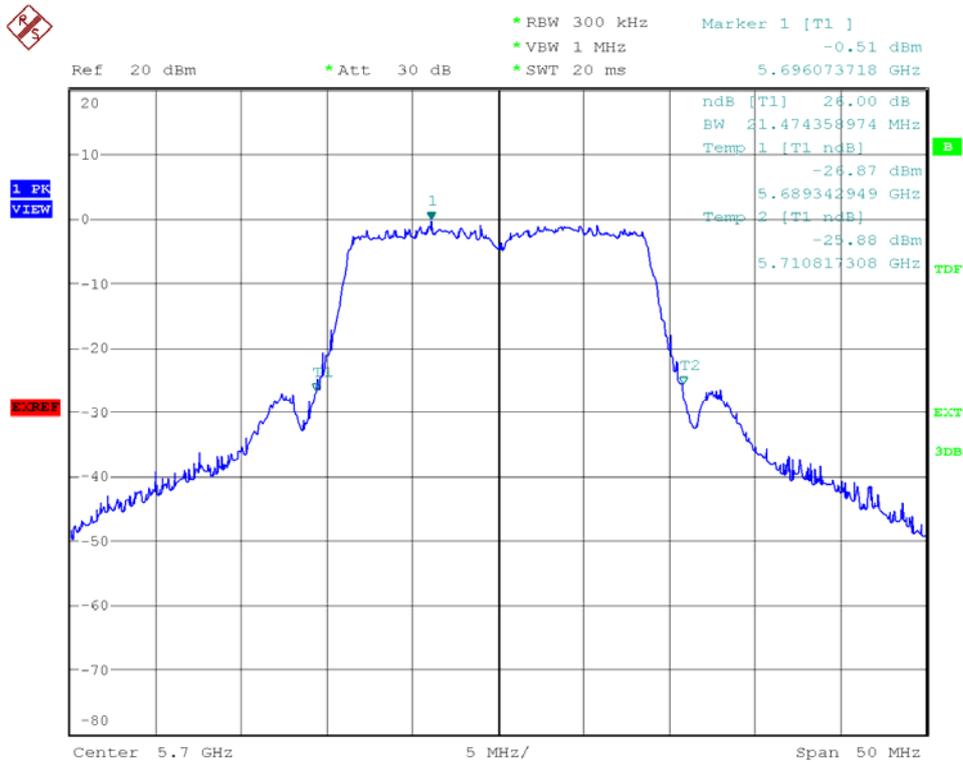


Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 120

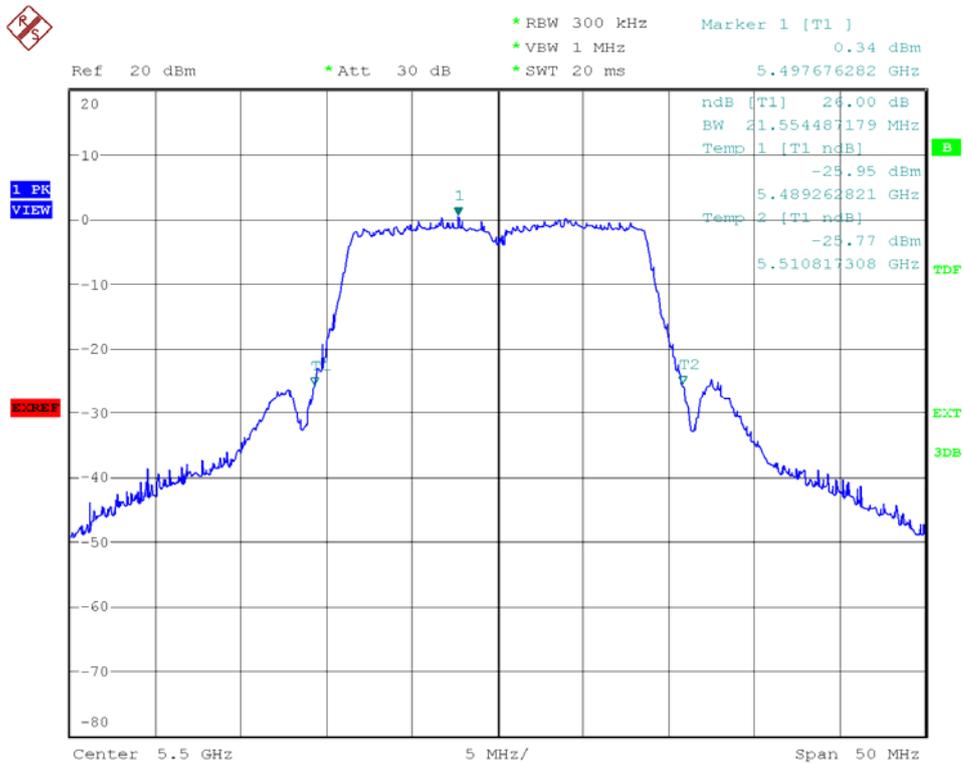




Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 140

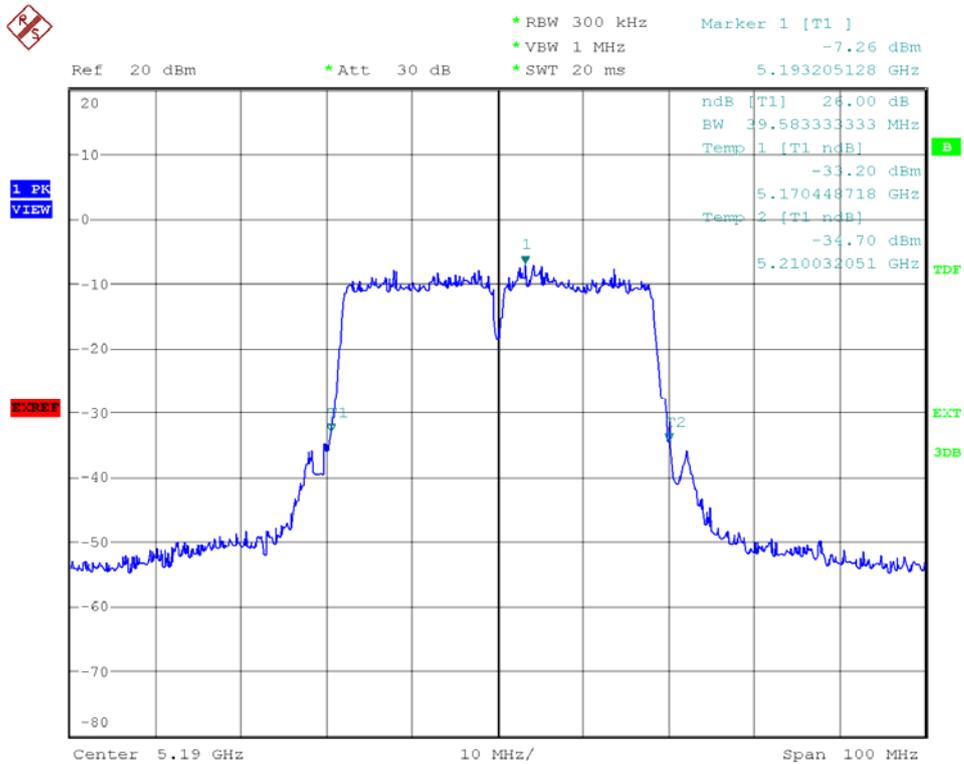


Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 100

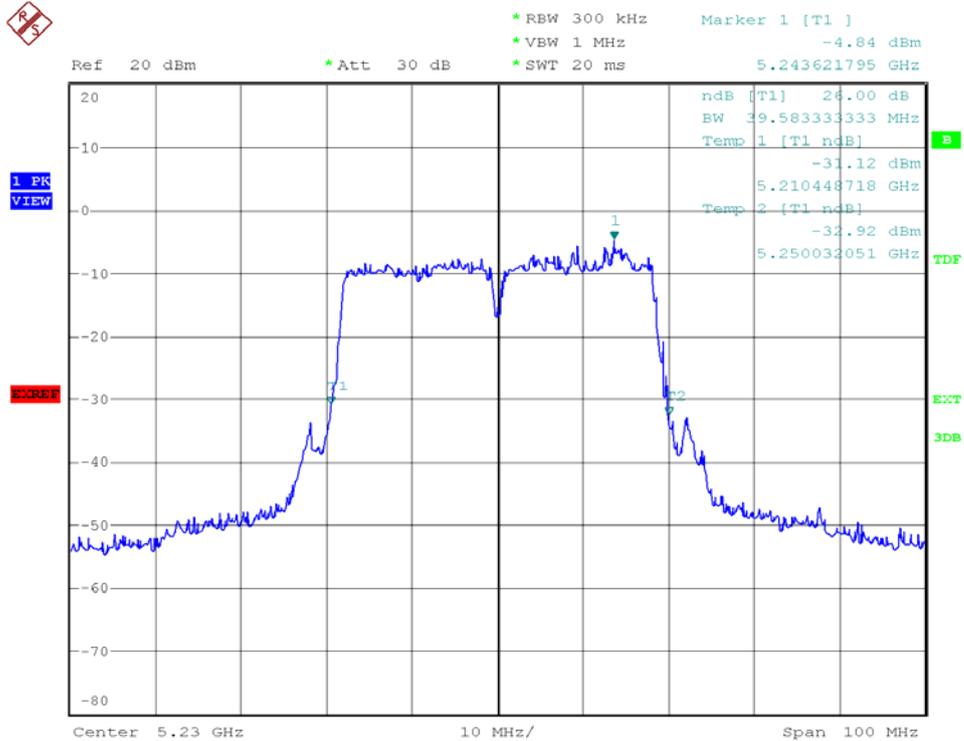




Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 38

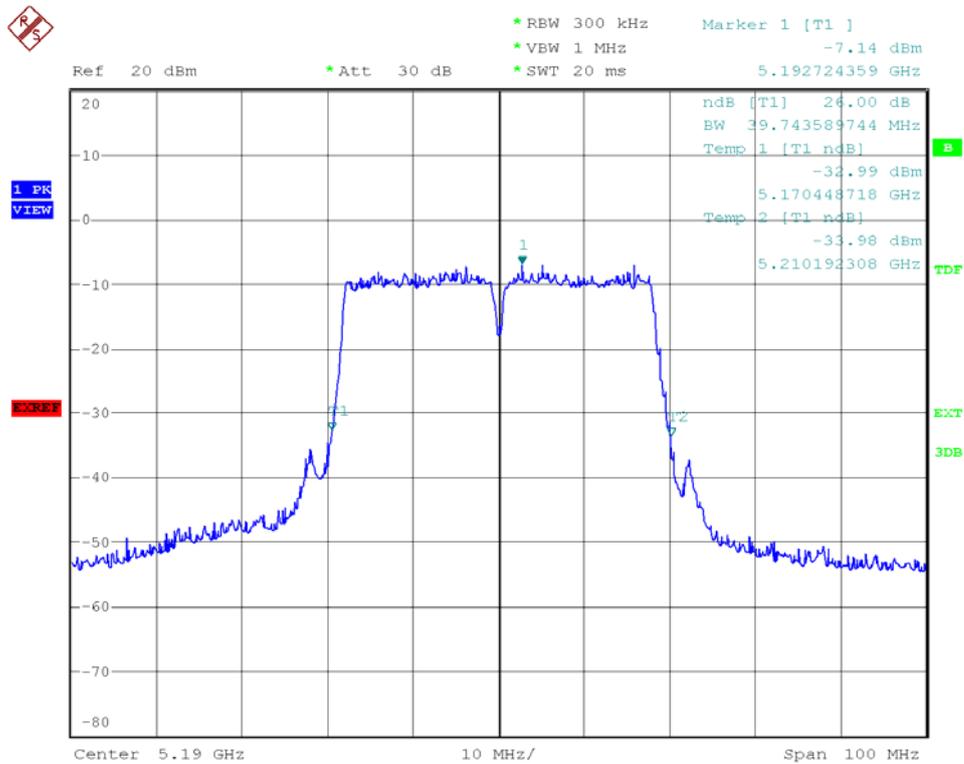


Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 46

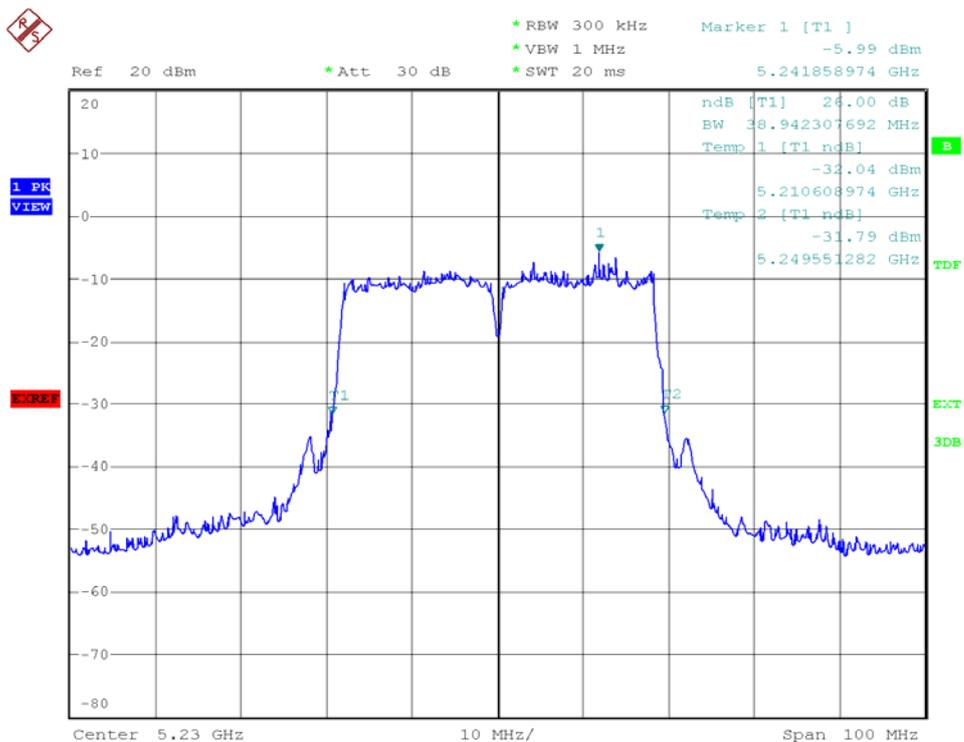




Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 38

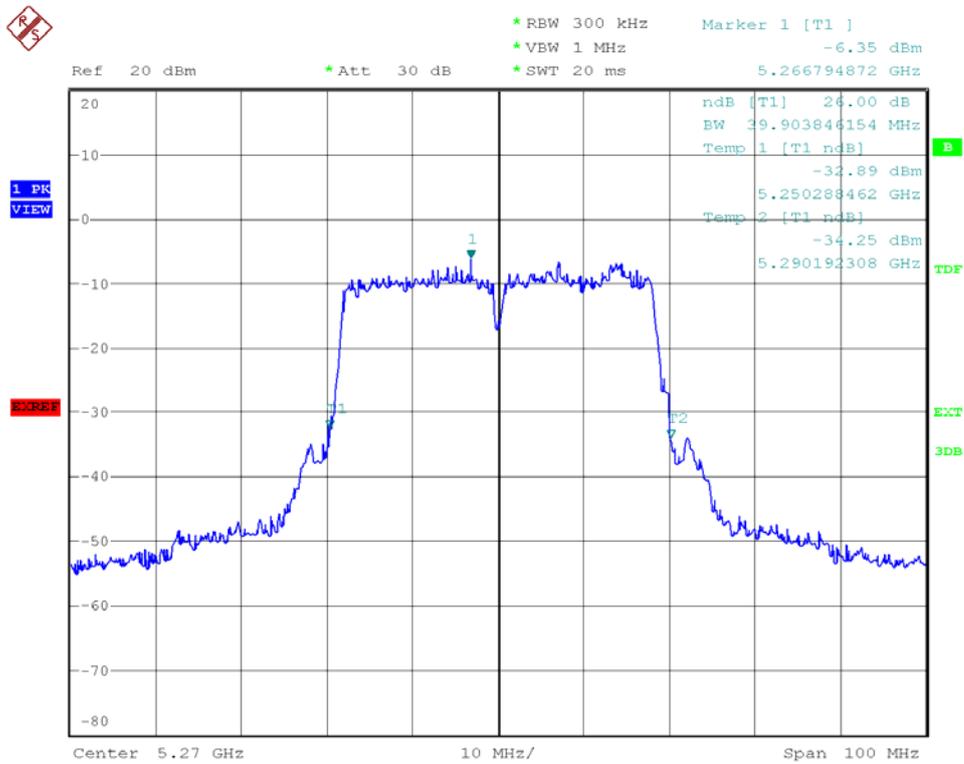


Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 46





Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 54



Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 62

