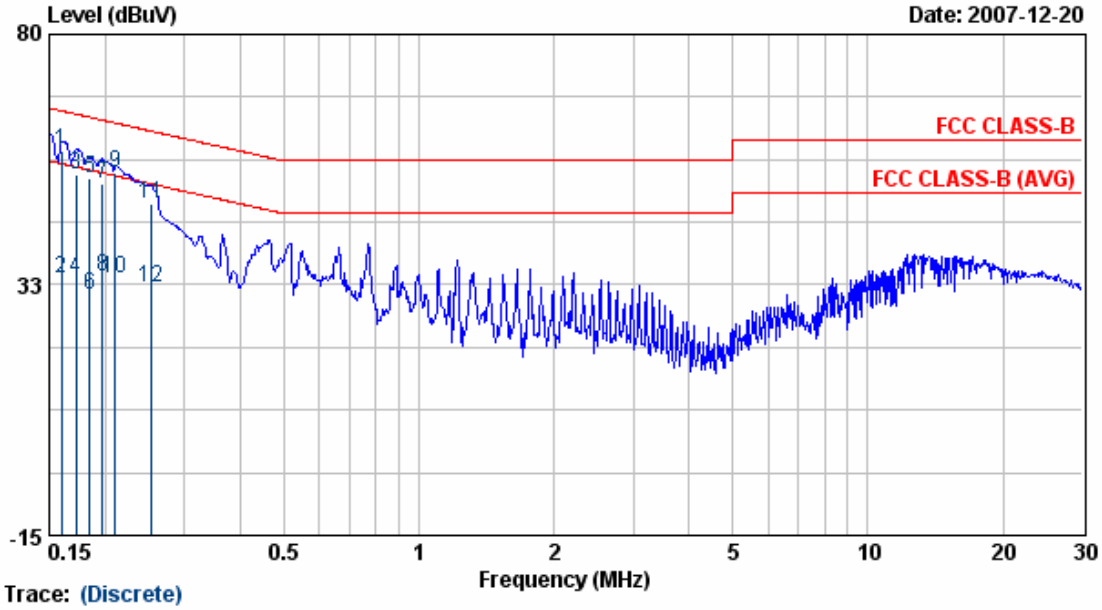
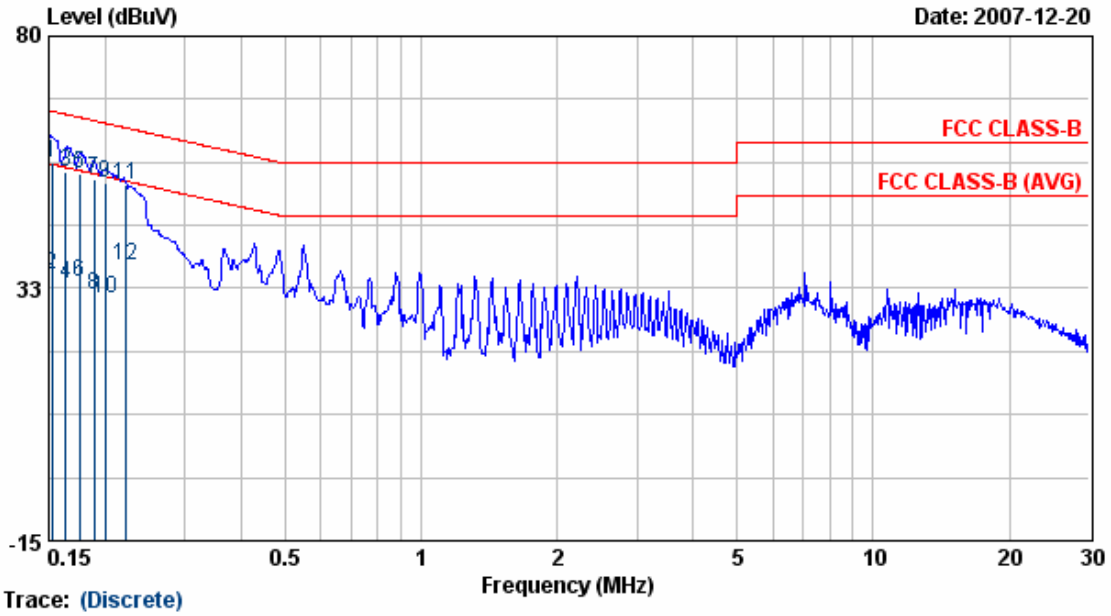
Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11n draft 2.0, 20MHz CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	57.92	0.09	58.01	65.50	-7.48	QP
2	0.16	33.69	0.09	33.78	55.50	-21.71	AVERAGE
3	0.17	53.15	0.09	53.24	64.87	-11.62	QP
4	0.17	33.56	0.09	33.65	54.87	-21.22	AVERAGE
5	0.18	52.53	0.09	52.62	64.27	-11.65	QP
6	0.18	30.55	0.09	30.64	54.27	-23.63	AVERAGE
7	0.20	51.65	0.09	51.74	63.72	-11.98	QP
8	0.20	33.85	0.09	33.94	53.72	-19.78	AVERAGE
9	0.21	53.57	0.09	53.66	63.18	-9.52	QP
10	0.21	33.51	0.09	33.60	53.18	-19.57	AVERAGE
11	0.25	47.92	0.10	48.02	61.66	-13.64	QP
12	0.25	32.05	0.10	32.15	51.66	-19.51	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11n draft 2.0, 40MHz CH151	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

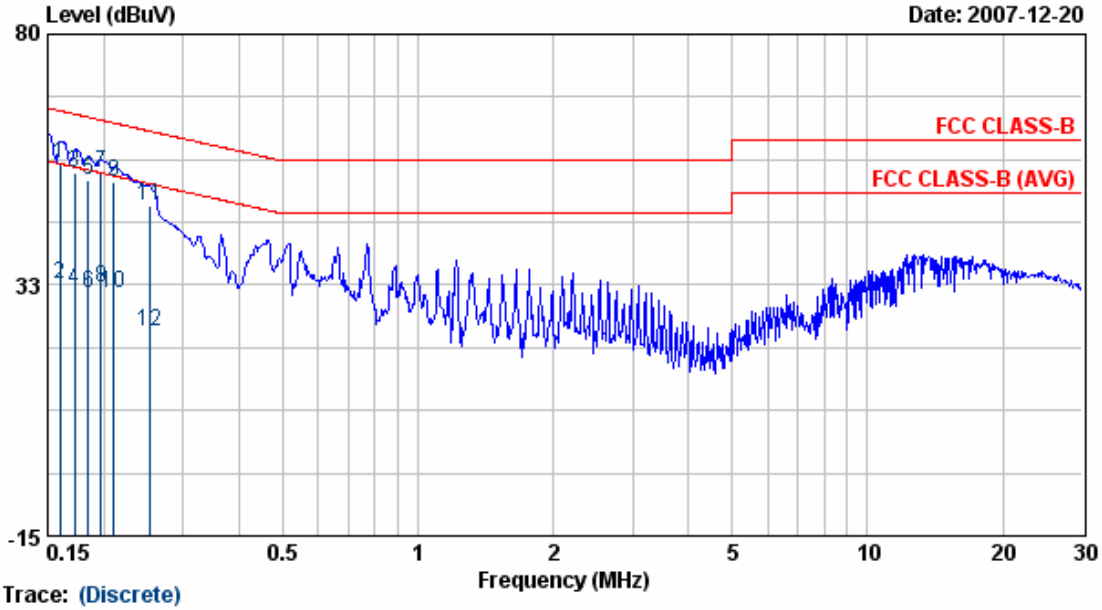


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.93	0.10	35.03	55.85	-20.83	AVERAGE
3	0.16	54.18	0.10	54.29	65.29	-11.01	QP
4	0.16	33.24	0.10	33.35	55.29	-21.95	AVERAGE
5	0.18	54.16	0.10	54.26	64.69	-10.43	QP
6	0.18	33.75	0.10	33.85	54.69	-20.84	AVERAGE
7	0.19	53.01	0.10	53.11	64.08	-10.96	QP
8	0.19	31.27	0.10	31.37	54.08	-22.71	AVERAGE
9	0.20	52.12	0.10	52.23	63.61	-11.39	QP
10	0.20	30.42	0.10	30.52	53.61	-23.09	AVERAGE
11	0.22	51.95	0.11	52.06	62.77	-10.71	QP
12	0.22	36.75	0.11	36.85	52.77	-15.92	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11n draft 2.0, 40MHz CH151	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

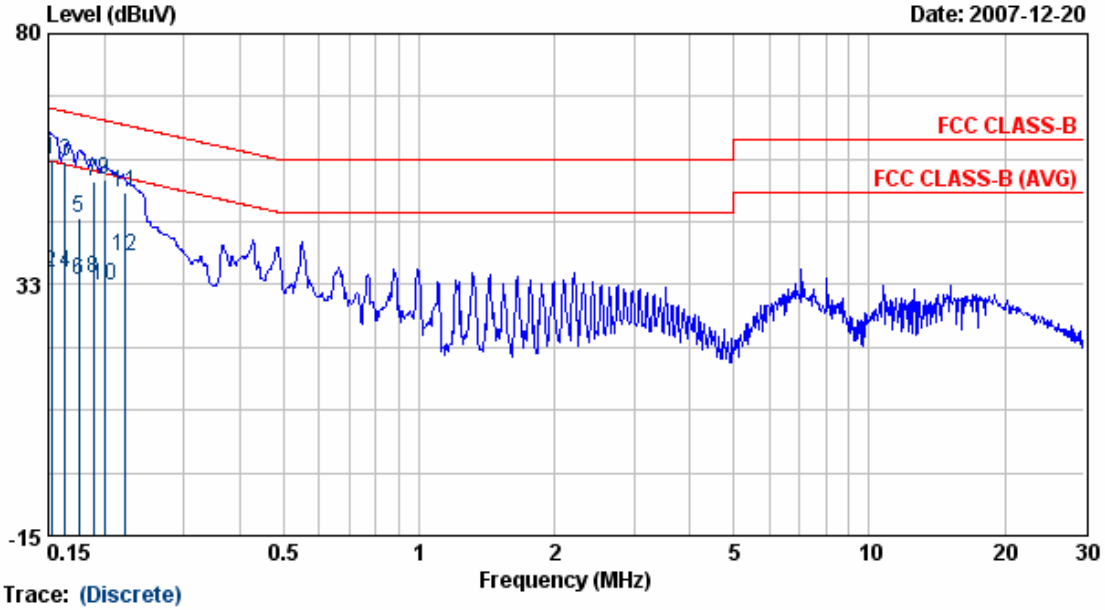


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.25	0.09	55.34	65.50	-10.15	QP
2	0.16	32.70	0.09	32.79	55.50	-22.71	AVERAGE
3	0.17	53.59	0.09	53.68	64.87	-11.19	QP
4	0.17	31.42	0.09	31.51	54.87	-23.36	AVERAGE
5	0.18	52.38	0.09	52.47	64.27	-11.80	QP
6	0.18	30.90	0.09	30.99	54.27	-23.28	AVERAGE
7	0.20	53.75	0.09	53.84	63.72	-9.87	QP
8	0.20	31.75	0.09	31.84	53.72	-21.87	AVERAGE
9	0.21	51.78	0.09	51.88	63.18	-11.30	QP
10	0.21	30.74	0.09	30.83	53.18	-22.34	AVERAGE
11	0.25	47.52	0.10	47.62	61.66	-14.04	QP
12	0.25	23.45	0.10	23.55	51.66	-28.11	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11a CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

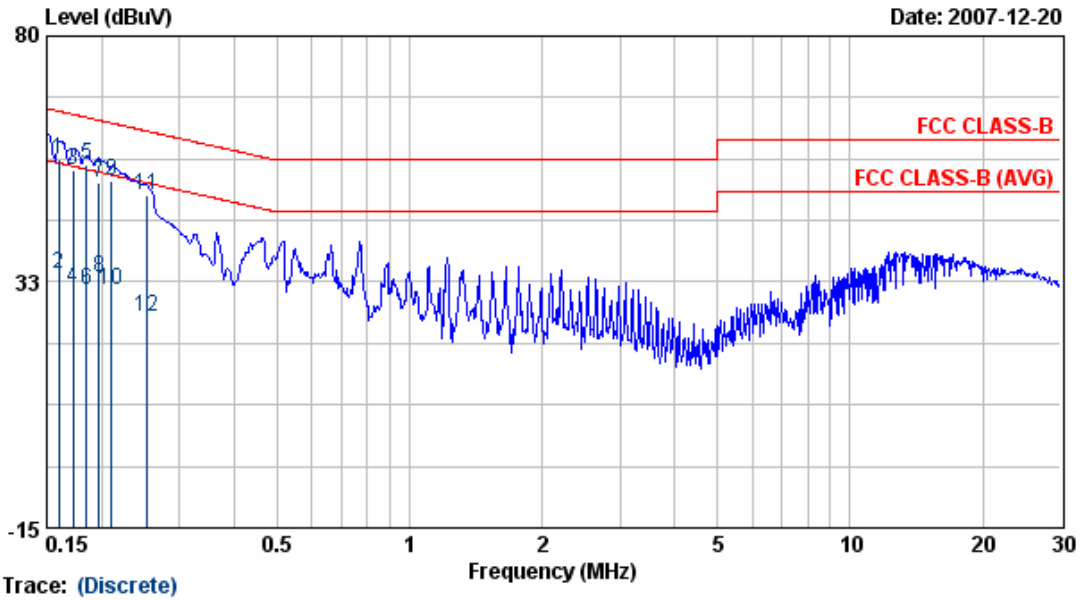


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.51	0.10	34.61	55.85	-21.24	AVERAGE
3	0.16	55.66	0.10	55.76	65.29	-9.53	QP
4	0.16	34.50	0.10	34.60	55.29	-20.69	AVERAGE
5	0.18	45.12	0.10	45.22	64.69	-19.47	QP
6	0.18	33.20	0.10	33.30	54.69	-21.39	AVERAGE
7	0.19	51.99	0.10	52.09	64.08	-11.99	QP
8	0.19	33.61	0.10	33.72	54.08	-20.36	AVERAGE
9	0.20	52.10	0.10	52.20	63.61	-11.41	QP
10	0.20	32.11	0.10	32.21	53.61	-21.40	AVERAGE
11	0.22	49.79	0.11	49.90	62.77	-12.87	QP
12	0.22	37.82	0.11	37.93	52.77	-14.84	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
4. The data is worse case.

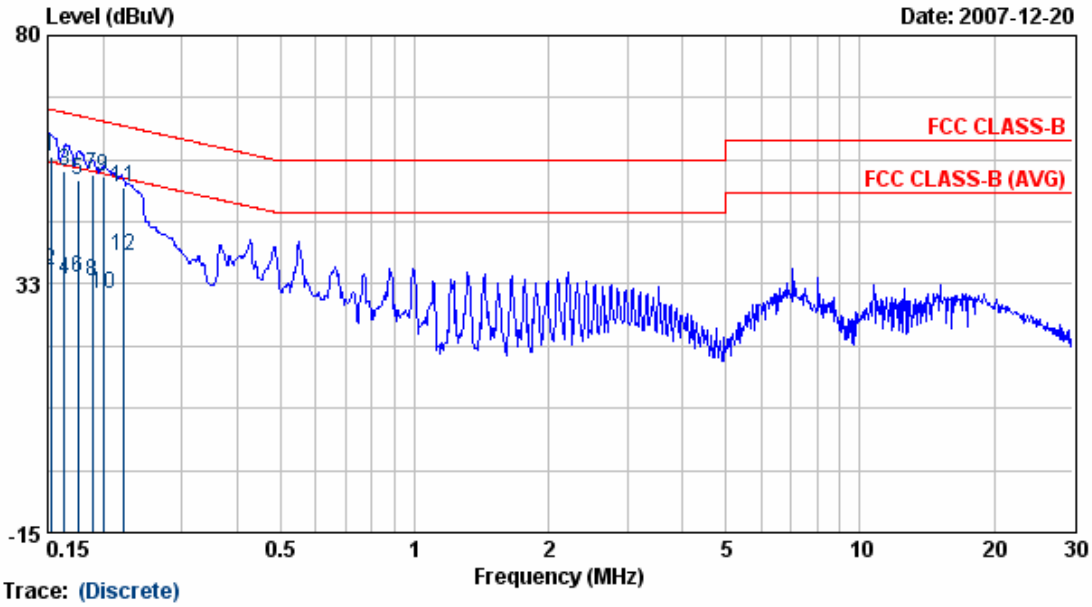
Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11a CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.95	0.09	56.04	65.50	-9.45	QP
2	0.16	33.94	0.09	34.03	55.50	-21.46	AVERAGE
3	0.17	54.12	0.09	54.21	64.87	-10.66	QP
4	0.17	31.37	0.09	31.46	54.87	-23.41	AVERAGE
5	0.18	54.88	0.09	54.97	64.27	-9.29	QP
6	0.18	30.95	0.09	31.04	54.27	-23.22	AVERAGE
7	0.20	51.67	0.09	51.76	63.72	-11.95	QP
8	0.20	33.13	0.09	33.22	53.72	-20.50	AVERAGE
9	0.21	51.95	0.09	52.05	63.18	-11.13	QP
10	0.21	30.85	0.09	30.94	53.18	-22.24	AVERAGE
11	0.25	49.15	0.10	49.25	61.66	-12.41	QP
12	0.25	25.74	0.10	25.84	51.66	-25.82	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11n draft 2.0, 20MHz CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

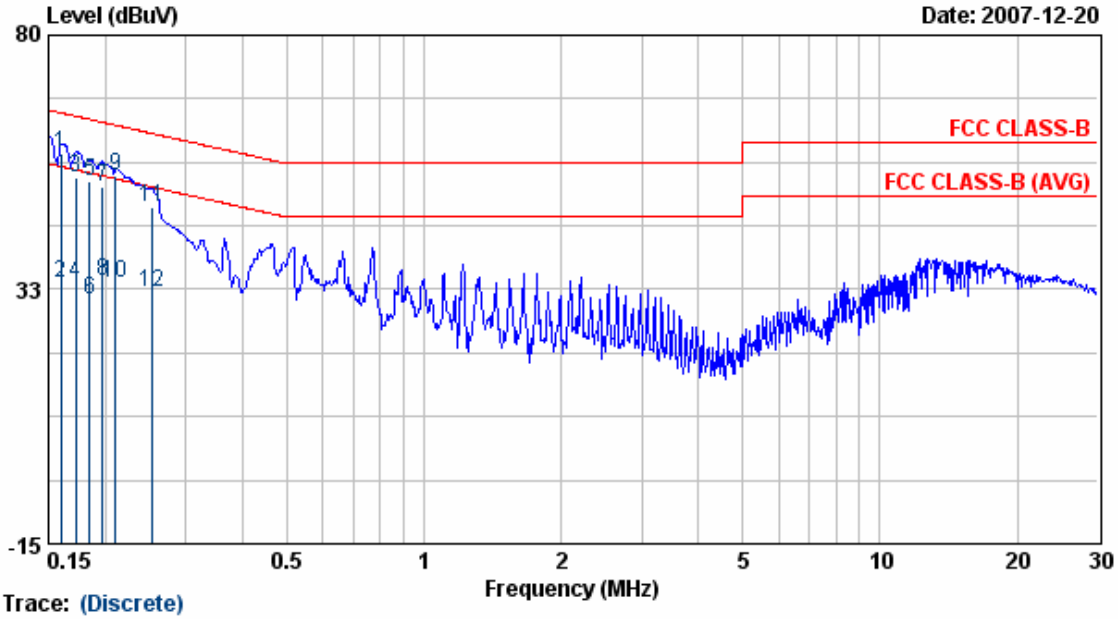


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.92	0.10	57.02	65.85	-8.83	QP
2	0.15	34.87	0.10	34.97	55.85	-20.88	AVERAGE
3	0.16	54.16	0.10	54.26	65.29	-11.04	QP
4	0.16	33.19	0.10	33.29	55.29	-22.01	AVERAGE
5	0.18	52.17	0.10	52.28	64.69	-12.41	QP
6	0.18	33.65	0.10	33.75	54.69	-20.94	AVERAGE
7	0.19	53.13	0.10	53.23	64.08	-10.85	QP
8	0.19	33.00	0.10	33.10	54.08	-20.97	AVERAGE
9	0.20	52.95	0.10	53.06	63.61	-10.55	QP
10	0.20	30.58	0.10	30.68	53.61	-22.93	AVERAGE
11	0.22	50.99	0.11	51.10	62.77	-11.67	QP
12	0.22	37.65	0.11	37.76	52.77	-15.01	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11n draft 2.0, 20MHz CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

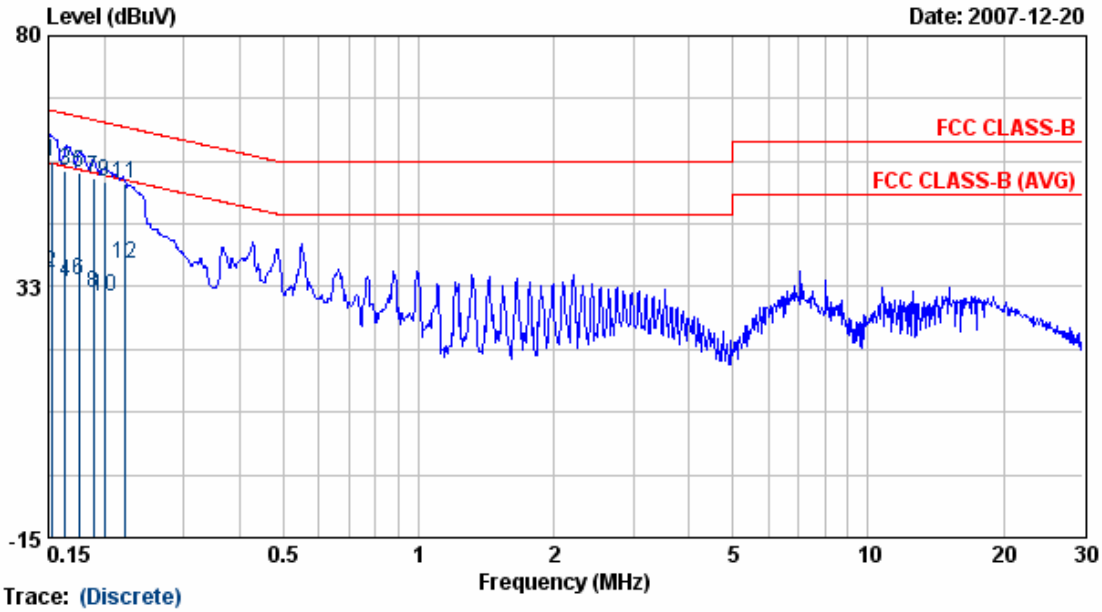


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	57.92	0.09	58.01	65.50	-7.48	QP
2	0.16	33.69	0.09	33.78	55.50	-21.71	AVERAGE
3	0.17	53.15	0.09	53.24	64.87	-11.62	QP
4	0.17	33.56	0.09	33.65	54.87	-21.22	AVERAGE
5	0.18	52.53	0.09	52.62	64.27	-11.65	QP
6	0.18	30.55	0.09	30.64	54.27	-23.63	AVERAGE
7	0.20	51.65	0.09	51.74	63.72	-11.98	QP
8	0.20	33.85	0.09	33.94	53.72	-19.78	AVERAGE
9	0.21	53.57	0.09	53.66	63.18	-9.52	QP
10	0.21	33.51	0.09	33.60	53.18	-19.57	AVERAGE
11	0.25	47.92	0.10	48.02	61.66	-13.64	QP
12	0.25	32.05	0.10	32.15	51.66	-19.51	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11n draft 2.0, 40MHz CH151	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

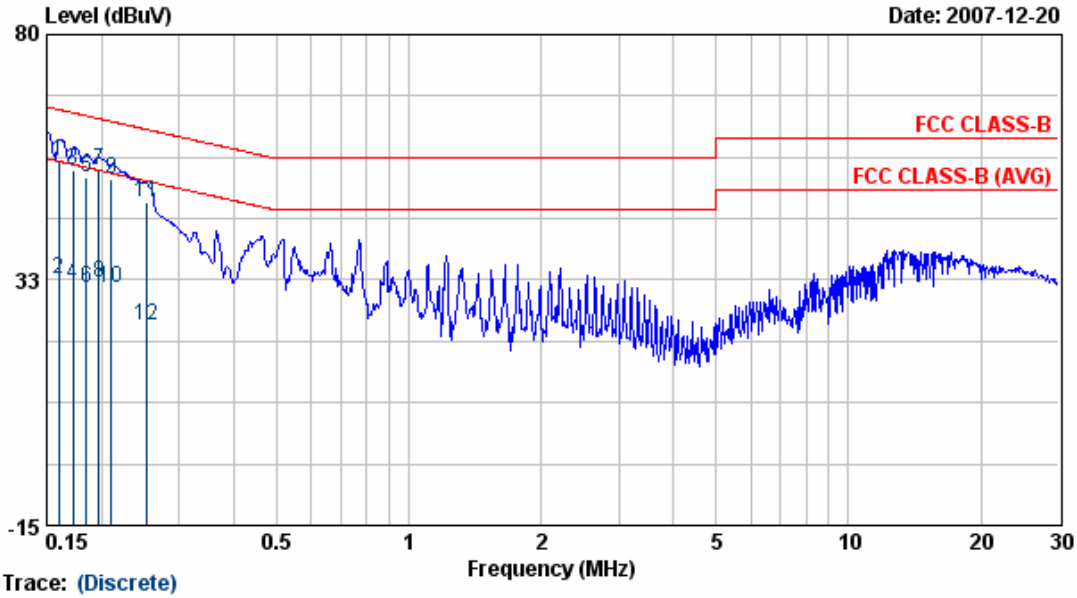


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.93	0.10	35.03	55.85	-20.83	AVERAGE
3	0.16	54.18	0.10	54.29	65.29	-11.01	QP
4	0.16	33.24	0.10	33.35	55.29	-21.95	AVERAGE
5	0.18	54.16	0.10	54.26	64.69	-10.43	QP
6	0.18	33.75	0.10	33.85	54.69	-20.84	AVERAGE
7	0.19	53.01	0.10	53.11	64.08	-10.96	QP
8	0.19	31.27	0.10	31.37	54.08	-22.71	AVERAGE
9	0.20	52.12	0.10	52.23	63.61	-11.39	QP
10	0.20	30.42	0.10	30.52	53.61	-23.09	AVERAGE
11	0.22	51.95	0.11	52.06	62.77	-10.71	QP
12	0.22	36.75	0.11	36.85	52.77	-15.92	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11n draft 2.0, 40MHz CH151	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.25	0.09	55.34	65.50	-10.15	QP
2	0.16	32.70	0.09	32.79	55.50	-22.71	AVERAGE
3	0.17	53.59	0.09	53.68	64.87	-11.19	QP
4	0.17	31.42	0.09	31.51	54.87	-23.36	AVERAGE
5	0.18	52.38	0.09	52.47	64.27	-11.80	QP
6	0.18	30.90	0.09	30.99	54.27	-23.28	AVERAGE
7	0.20	53.75	0.09	53.84	63.72	-9.87	QP
8	0.20	31.75	0.09	31.84	53.72	-21.87	AVERAGE
9	0.21	51.78	0.09	51.88	63.18	-11.30	QP
10	0.21	30.74	0.09	30.83	53.18	-22.34	AVERAGE
11	0.25	47.52	0.10	47.62	61.66	-14.04	QP
12	0.25	23.45	0.10	23.55	51.66	-28.11	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
4. The data is worse case.

11. Test of Radiated Emission (For 802.11a device)

11.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated (μ V / M)	Radiated (dB μ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

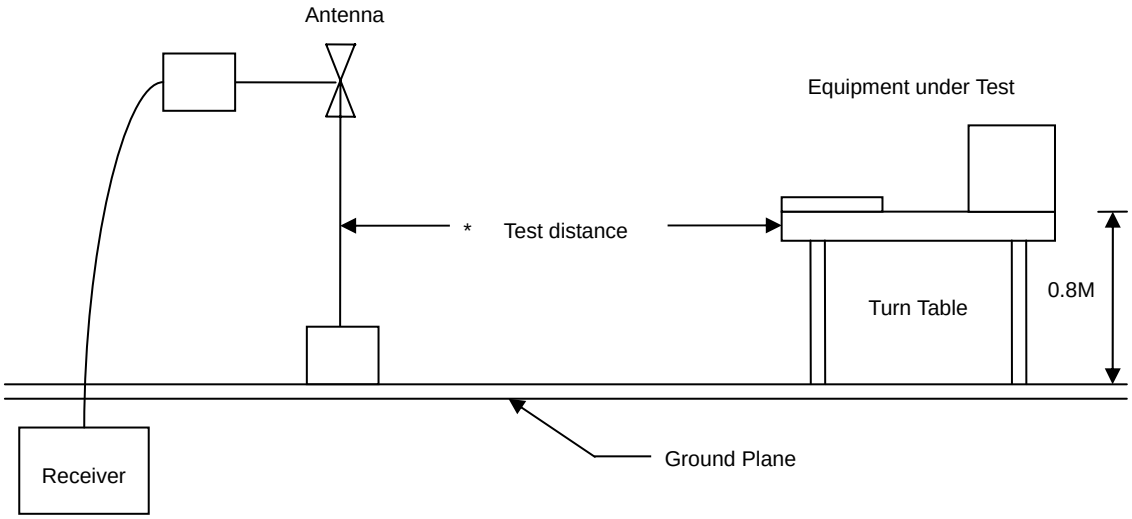
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

Frequency (MHz)	Distance Meters	Radiated (dB μ V/ M)
30-230	10	30
230-1000	10	37

11.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

11.3 Typical Test Setup

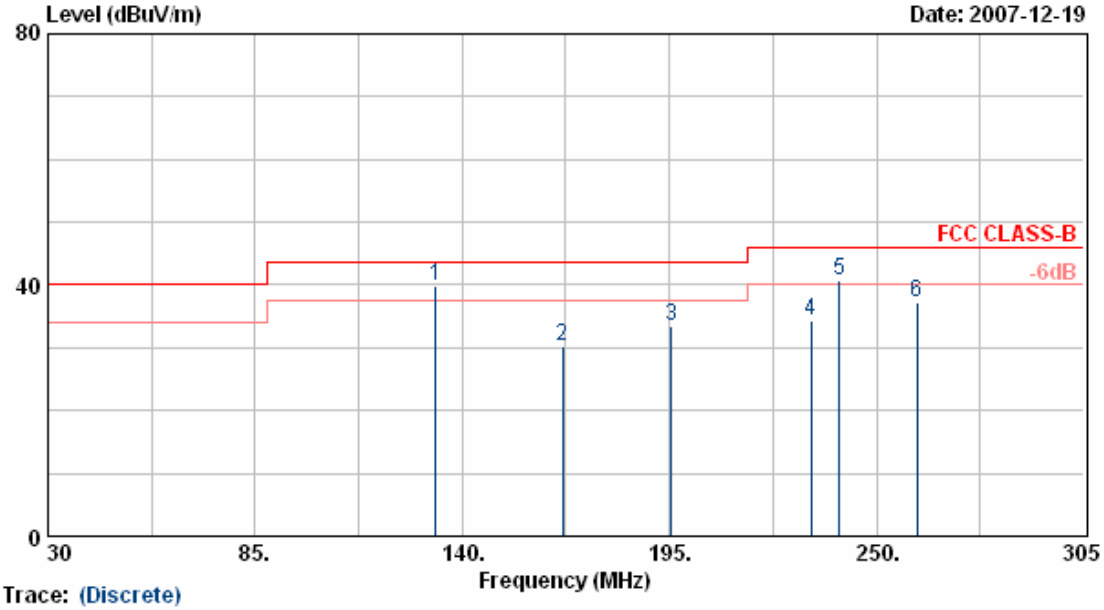


11.4 Measurement equipment

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

11.5 Test Result and Data

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



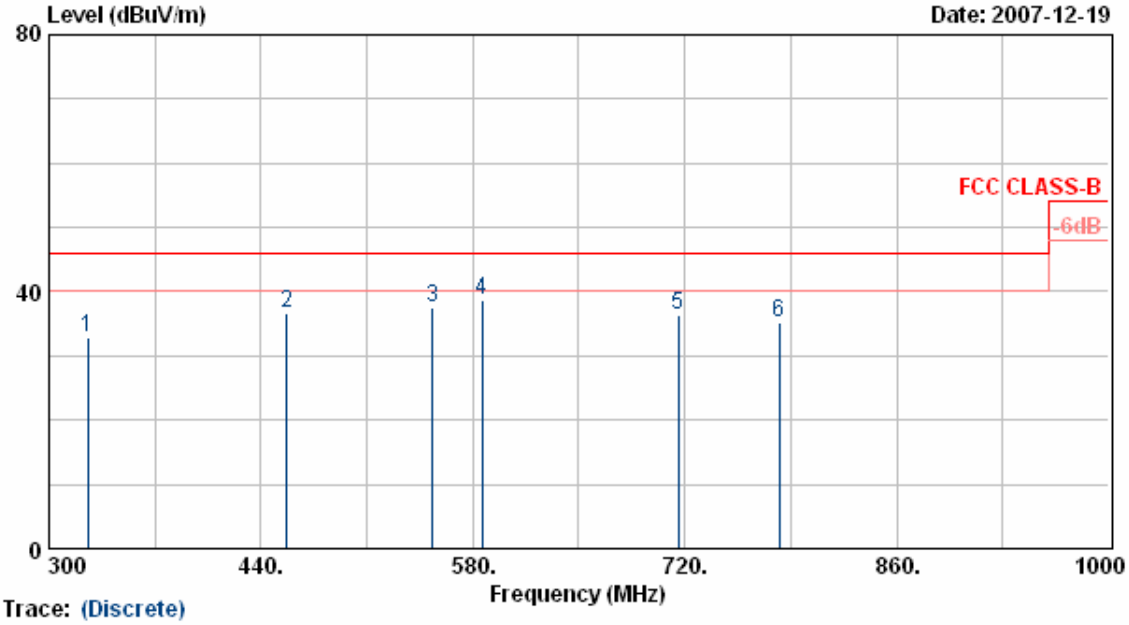
Trace: (Discrete)

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	132.85	52.68	-12.97	39.71	43.50	-3.79	QP	100	44
2	166.68	44.55	-14.41	30.15	43.50	-13.35	Peak	100	147
3	195.55	46.36	-13.01	33.36	43.50	-10.14	Peak	100	145
4	232.68	46.64	-12.38	34.26	46.00	-11.74	Peak	100	167
5	240.10	53.54	-12.70	40.84	46.00	-5.16	QP	100	166
6	260.73	48.43	-11.17	37.26	46.00	-8.74	Peak	150	111

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



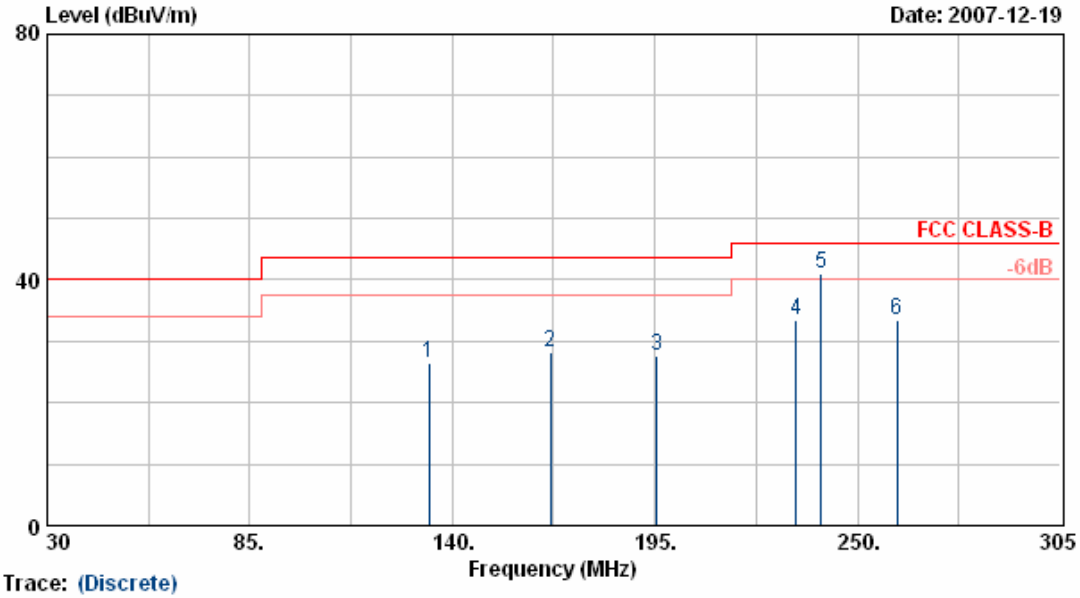
Trace: (Discrete)

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	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.47	-7.80	36.67	46.00	-9.33	Peak	100	137
3	553.40	42.37	-4.85	37.51	46.00	-8.49	Peak	100	117
4	586.30	48.48	-9.73	38.75	46.00	-7.25	Peak	100	211
5	715.80	41.36	-5.03	36.33	46.00	-9.67	Peak	100	136
6	782.30	39.49	-4.31	35.18	46.00	-10.82	Peak	100	110

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



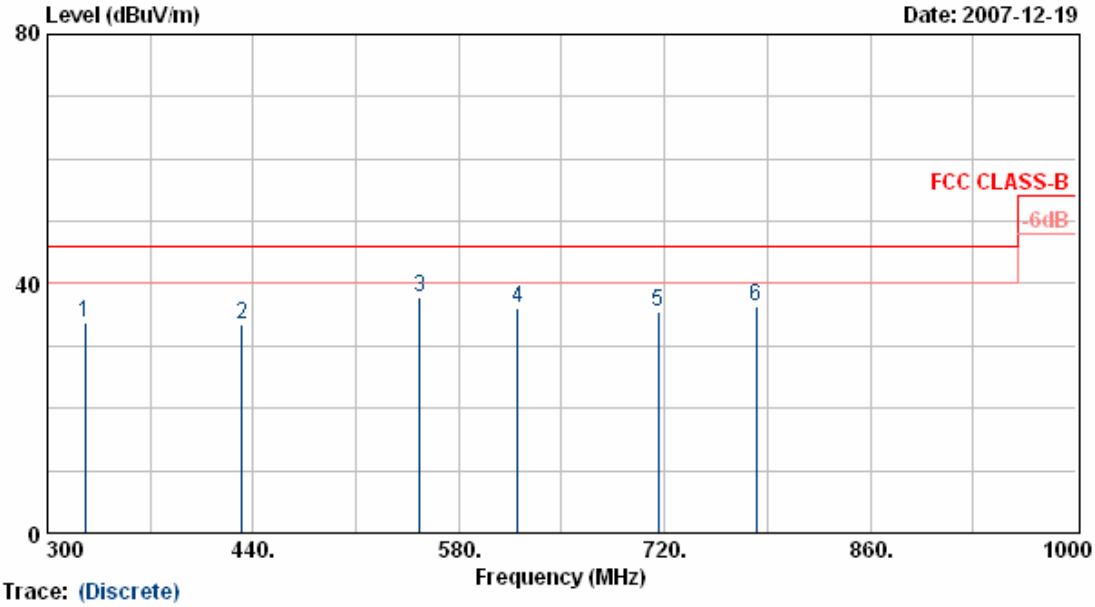
Trace: (Discrete)

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	133.68	45.94	-19.48	26.46	43.50	-17.04	Peak	100	127
2	166.68	48.42	-20.20	28.22	43.50	-15.28	Peak	100	117
3	195.55	47.34	-19.74	27.60	43.50	-15.90	Peak	100	217
4	233.23	50.43	-16.87	33.56	46.00	-12.44	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	47.90	-14.47	33.43	46.00	-12.57	Peak	100	197

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



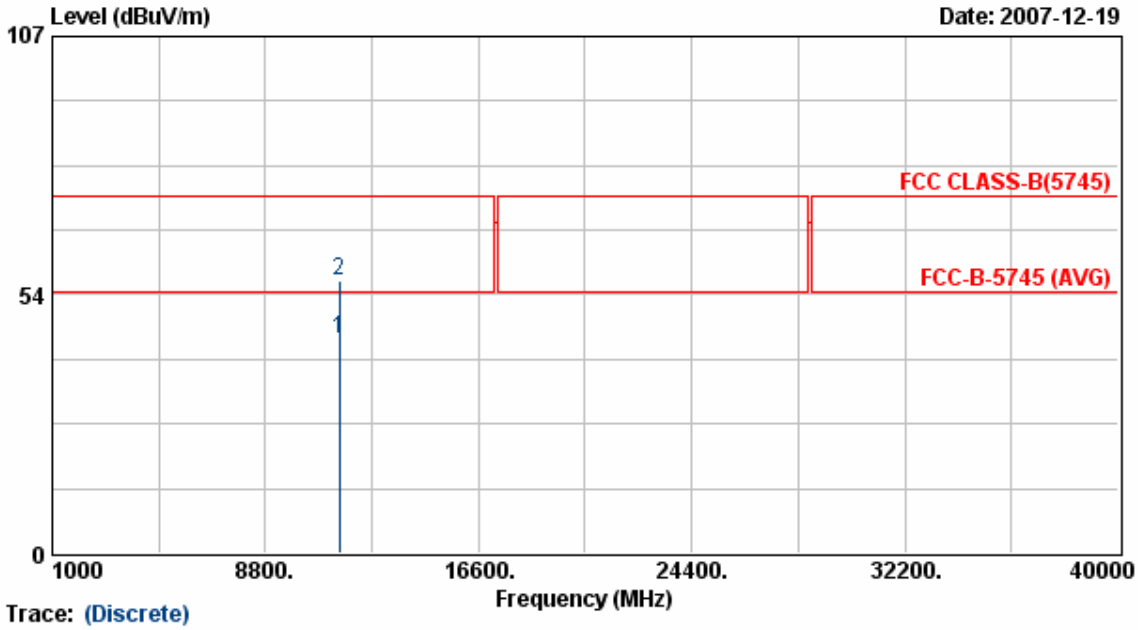
Trace: (Discrete)

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	325.90	47.47	-13.72	33.75	46.00	-12.25	Peak	100	217
2	432.30	41.47	-7.88	33.59	46.00	-12.41	Peak	100	211
3	553.40	41.75	-4.03	37.72	46.00	-8.28	Peak	100	211
4	619.90	40.52	-4.41	36.10	46.00	-9.90	Peak	100	114
5	715.80	43.61	-8.16	35.45	46.00	-10.55	Peak	100	164
6	782.30	41.91	-5.58	36.32	46.00	-9.68	Peak	100	41

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



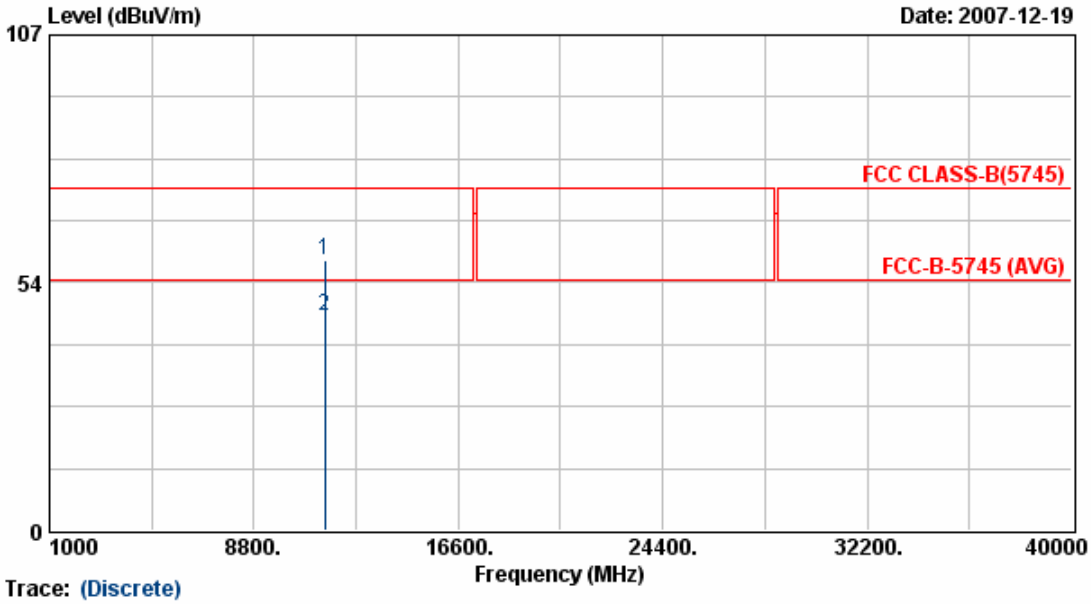
Trace: (Discrete)

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	11489.75	29.87	14.39	44.26	54.00	-9.74	Average	100	194
2	11489.75	41.91	14.39	56.30	74.00	-17.70	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



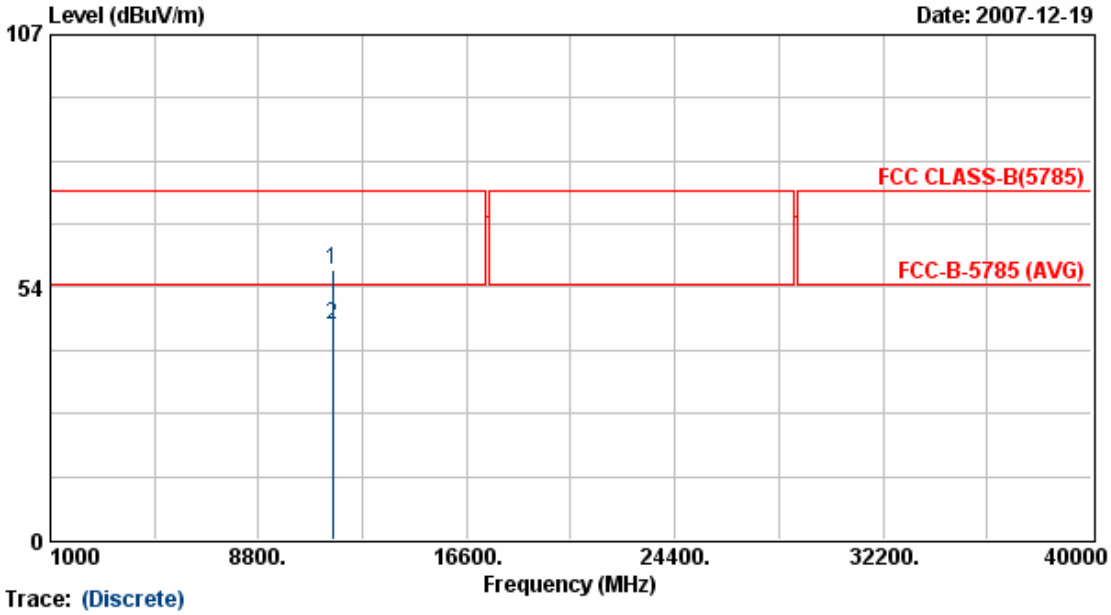
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11490.50	43.88	14.39	58.27	74.00	-15.73	Peak	100	201
2	11490.50	32.00	14.39	46.39	54.00	-7.61	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



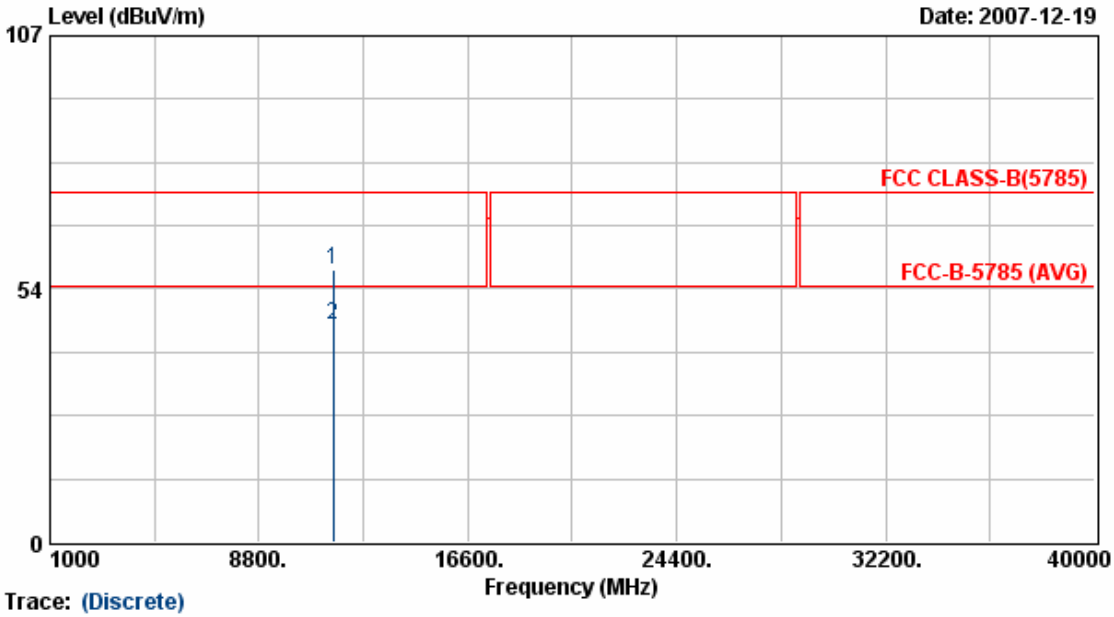
Trace: (Discrete)

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	11572.38	42.58	14.44	57.03	74.00	-16.97	Peak	100	194
2	11572.38	30.89	14.44	45.34	54.00	-8.66	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



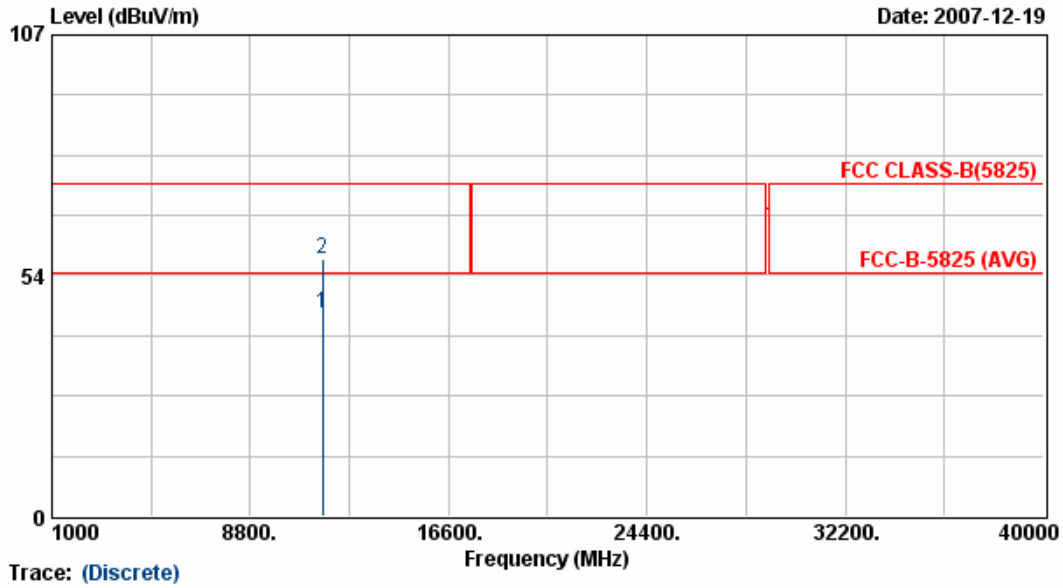
Trace: (Discrete)

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	11572.13	43.12	14.44	57.57	74.00	-16.43	Peak	100	201
2	11572.13	31.45	14.44	45.89	54.00	-8.11	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



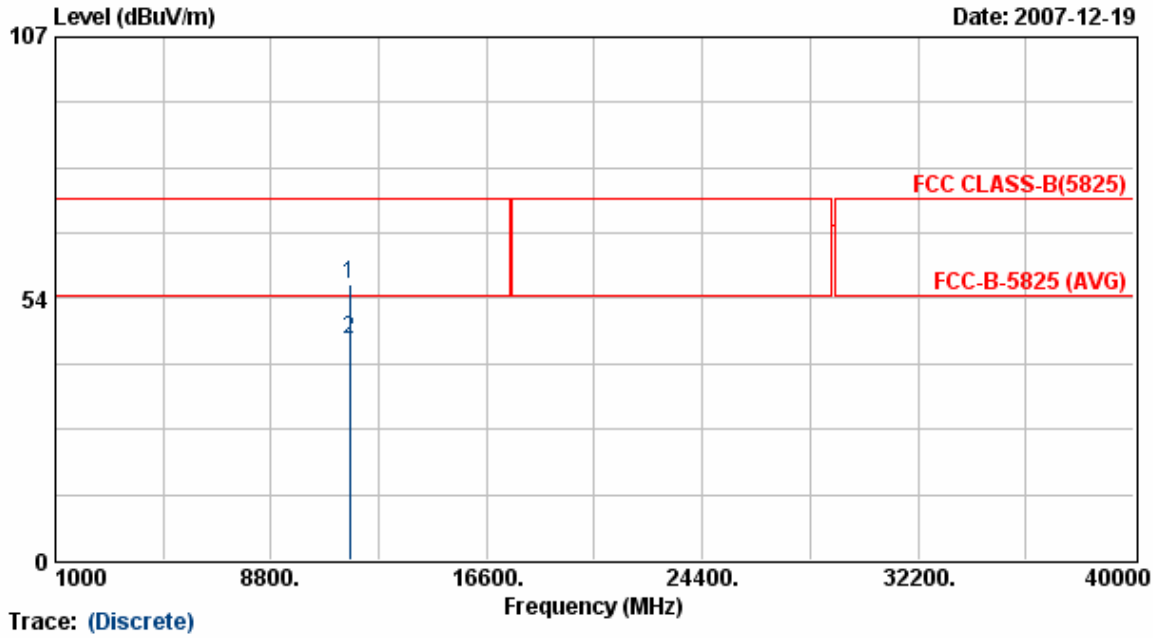
Trace: (Discrete)

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	11650.75	30.83	14.49	45.32	54.00	-8.68	Average	100	194
2	11650.75	42.55	14.49	57.04	74.00	-16.96	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



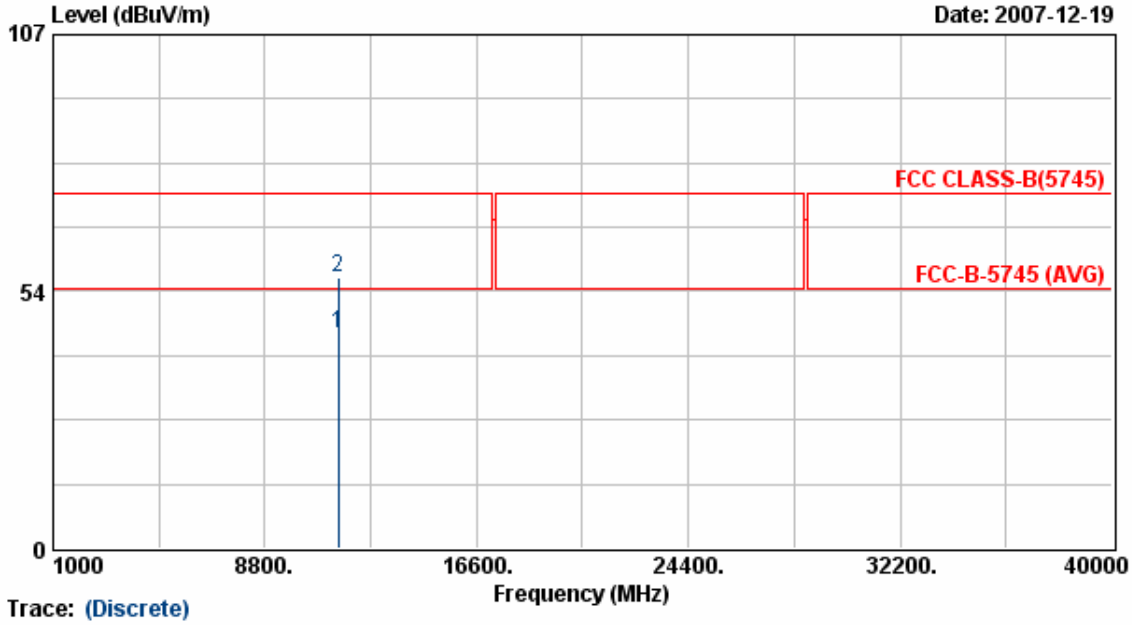
Trace: (Discrete)

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	11650.88	41.89	14.49	56.38	74.00	-17.62	Peak	100	201
2	11650.88	30.76	14.49	45.26	54.00	-8.74	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



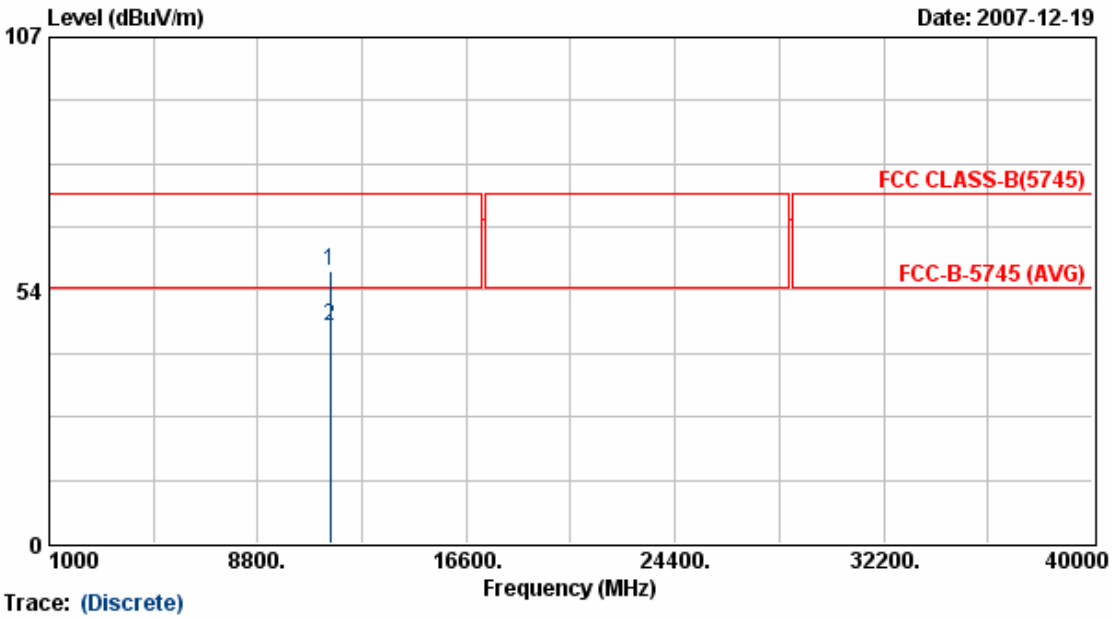
Trace: (Discrete)

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	11489.75	30.18	14.39	44.56	54.00	-9.44	Average	100	194
2	11489.75	41.86	14.39	56.24	74.00	-17.76	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



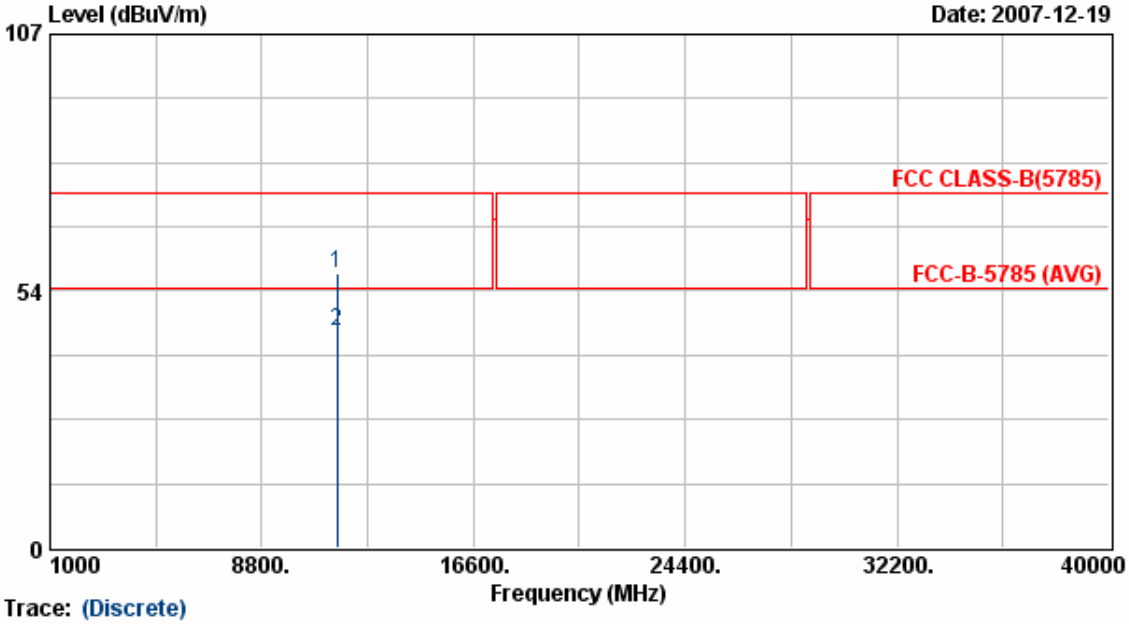
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11490.50	43.25	14.39	57.64	74.00	-16.36	Peak	100	201
2	11490.50	31.33	14.39	45.72	54.00	-8.28	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



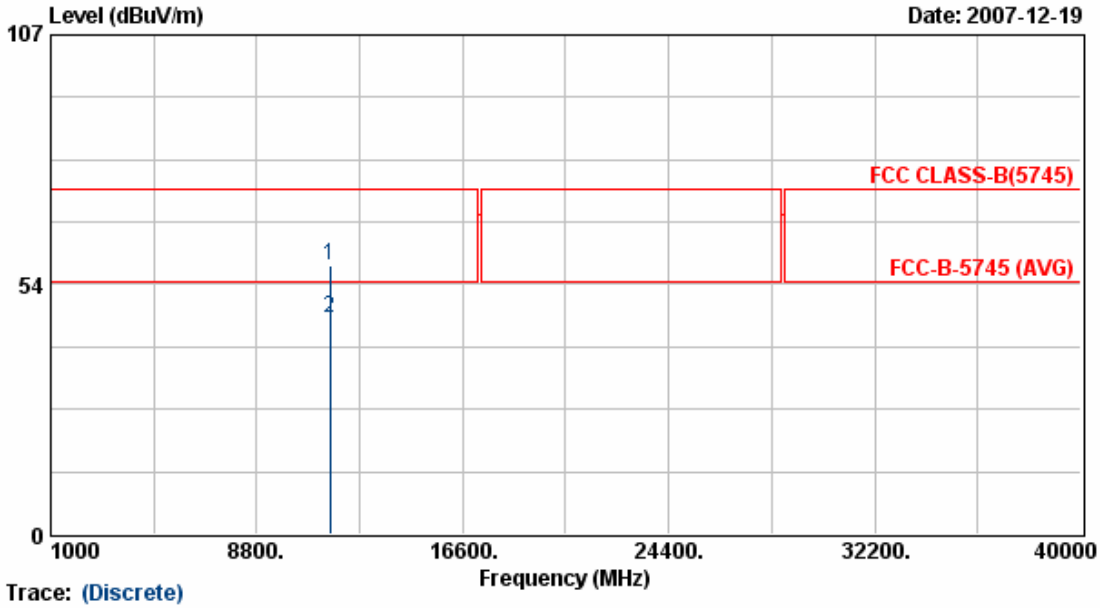
Trace: (Discrete)

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	11572.38	42.66	14.44	57.11	74.00	-16.89	Peak	100	194
2	11572.38	30.83	14.44	45.27	54.00	-8.73	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



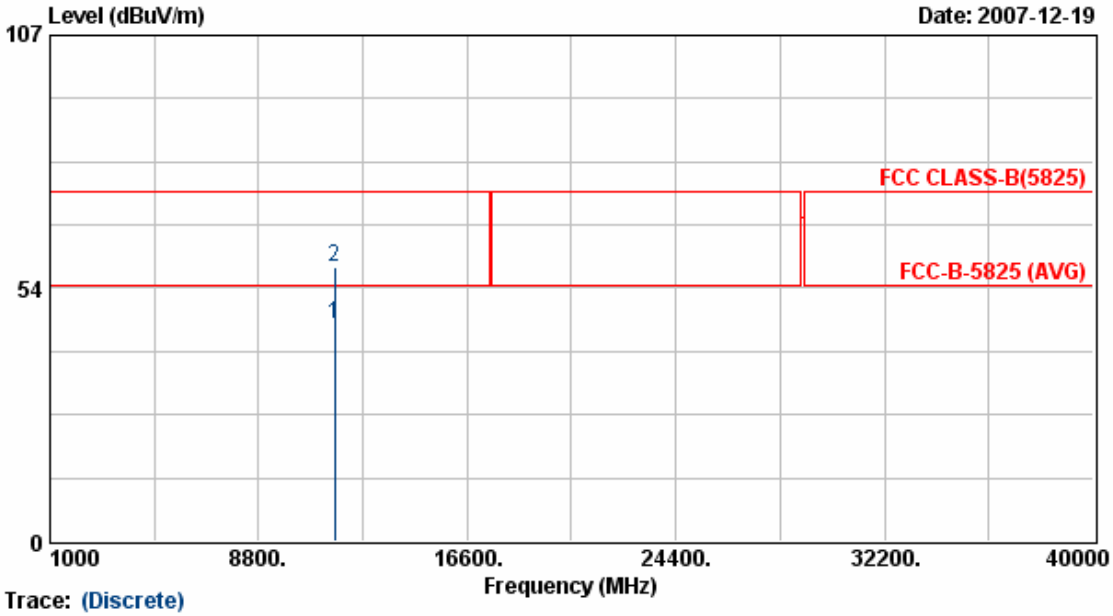
Trace: (Discrete)

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	11572.13	43.24	14.44	57.68	74.00	-16.32	Peak	100	201
2	11572.13	31.86	14.44	46.30	54.00	-7.70	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



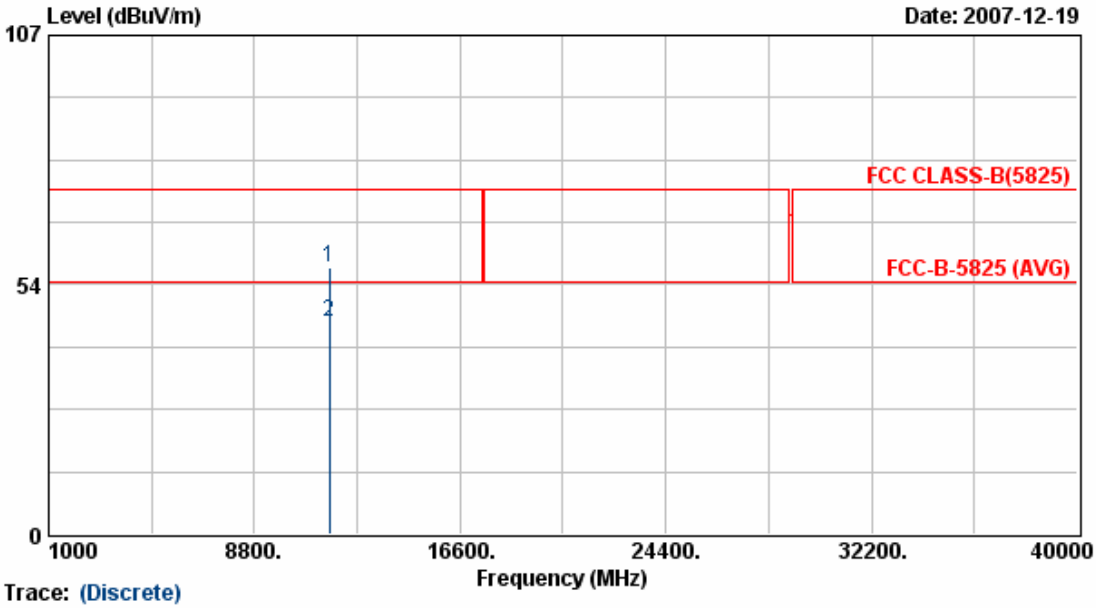
Trace: (Discrete)

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	11650.75	31.58	14.49	46.07	54.00	-7.93	Average	100	194
2	11650.75	43.53	14.49	58.02	74.00	-15.98	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



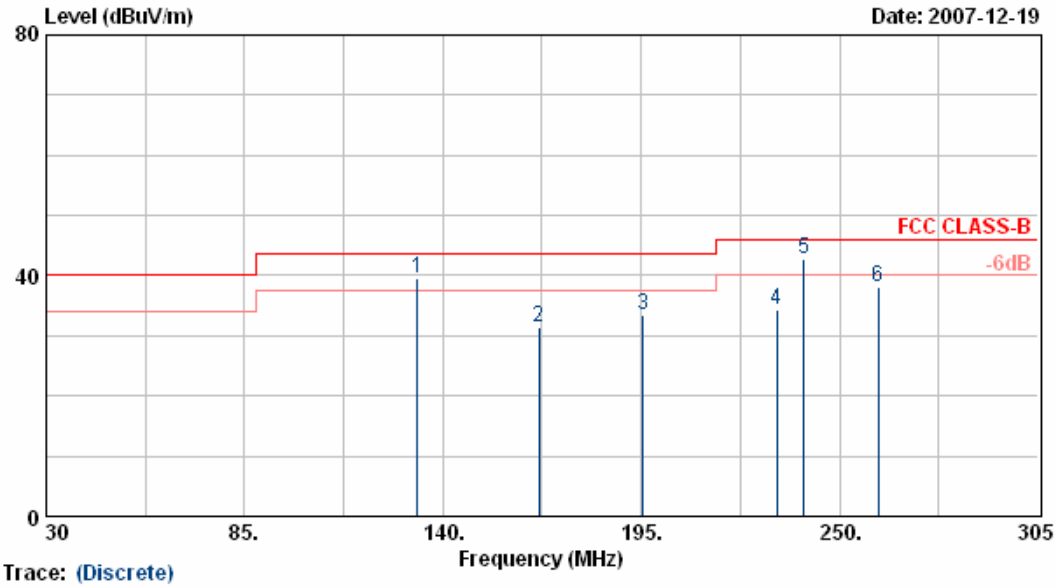
Trace: (Discrete)

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	11650.88	42.83	14.49	57.32	74.00	-16.68	Peak	100	201
2	11650.88	30.95	14.49	45.45	54.00	-8.55	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



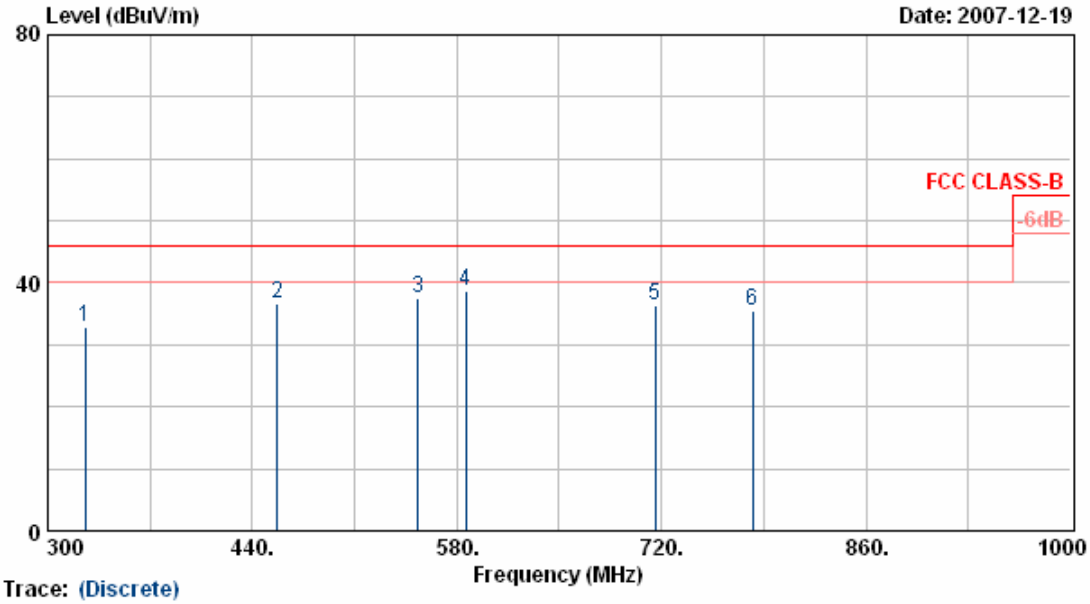
Trace: (Discrete)

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	132.85	52.53	-12.97	39.56	43.50	-3.94	QP	100	44
2	166.68	45.80	-14.41	31.40	43.50	-12.10	Peak	100	147
3	195.55	46.35	-13.01	33.35	43.50	-10.15	Peak	100	145
4	232.68	46.68	-12.38	34.30	46.00	-11.70	Peak	100	167
5	240.10	55.54	-12.70	42.84	46.00	-3.16	QP	100	166
6	260.73	49.37	-11.17	38.20	46.00	-7.80	Peak	150	111

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



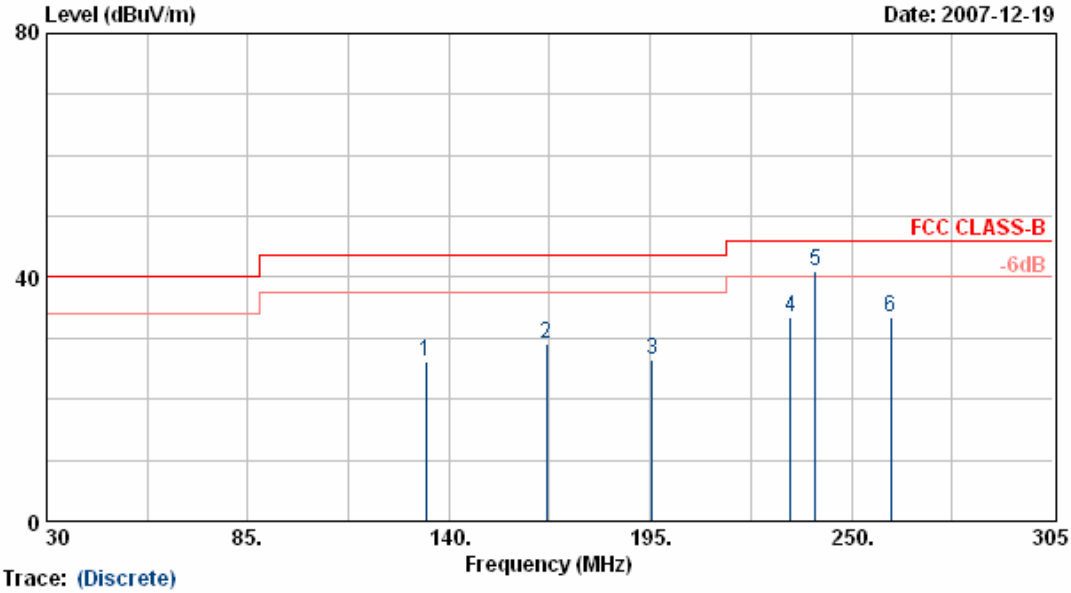
Trace: (Discrete)

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	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.47	-7.80	36.67	46.00	-9.33	Peak	100	137
3	553.40	42.46	-4.85	37.60	46.00	-8.40	Peak	100	117
4	586.30	48.38	-9.73	38.65	46.00	-7.35	Peak	100	211
5	715.80	41.46	-5.03	36.43	46.00	-9.57	Peak	100	136
6	782.30	39.87	-4.31	35.56	46.00	-10.44	Peak	100	110

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



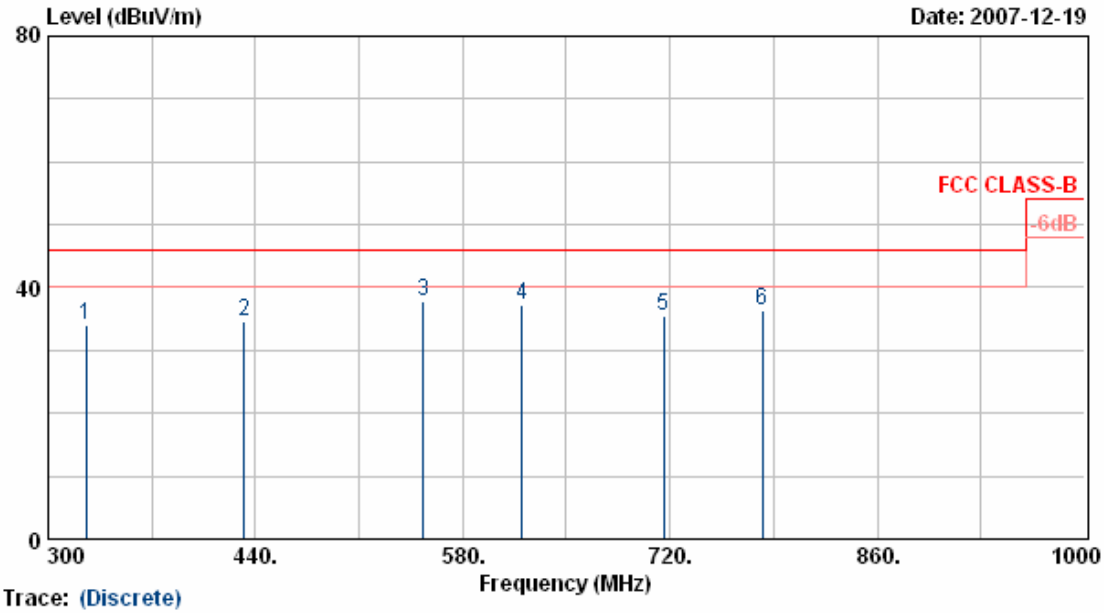
Trace: (Discrete)

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	133.68	45.69	-19.48	26.20	43.50	-17.30	Peak	100	127
2	166.68	49.30	-20.20	29.10	43.50	-14.40	Peak	100	117
3	195.55	46.10	-19.74	26.36	43.50	-17.14	Peak	100	217
4	233.23	50.43	-16.87	33.56	46.00	-12.44	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	47.98	-14.47	33.51	46.00	-12.49	Peak	100	197

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



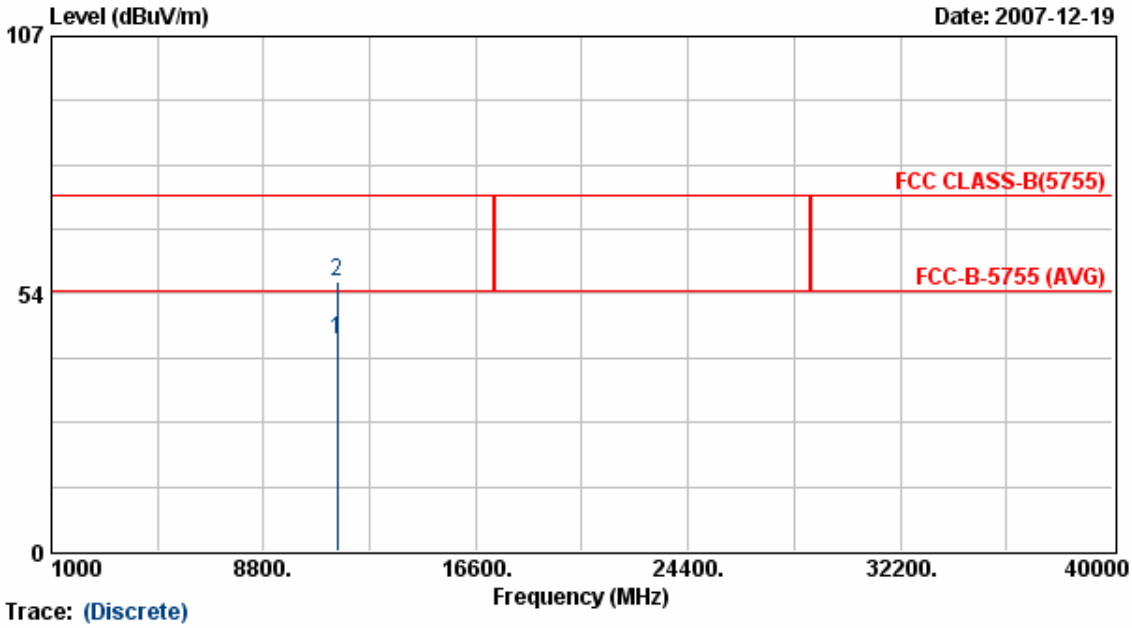
Trace: (Discrete)

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	325.90	47.67	-13.72	33.95	46.00	-12.05	Peak	100	217
2	432.30	42.47	-7.88	34.59	46.00	-11.41	Peak	100	211
3	553.40	41.75	-4.03	37.72	46.00	-8.28	Peak	100	211
4	619.90	41.52	-4.41	37.10	46.00	-8.90	Peak	100	114
5	715.80	43.52	-8.16	35.36	46.00	-10.64	Peak	100	164
6	782.30	41.91	-5.58	36.32	46.00	-9.68	Peak	100	41

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



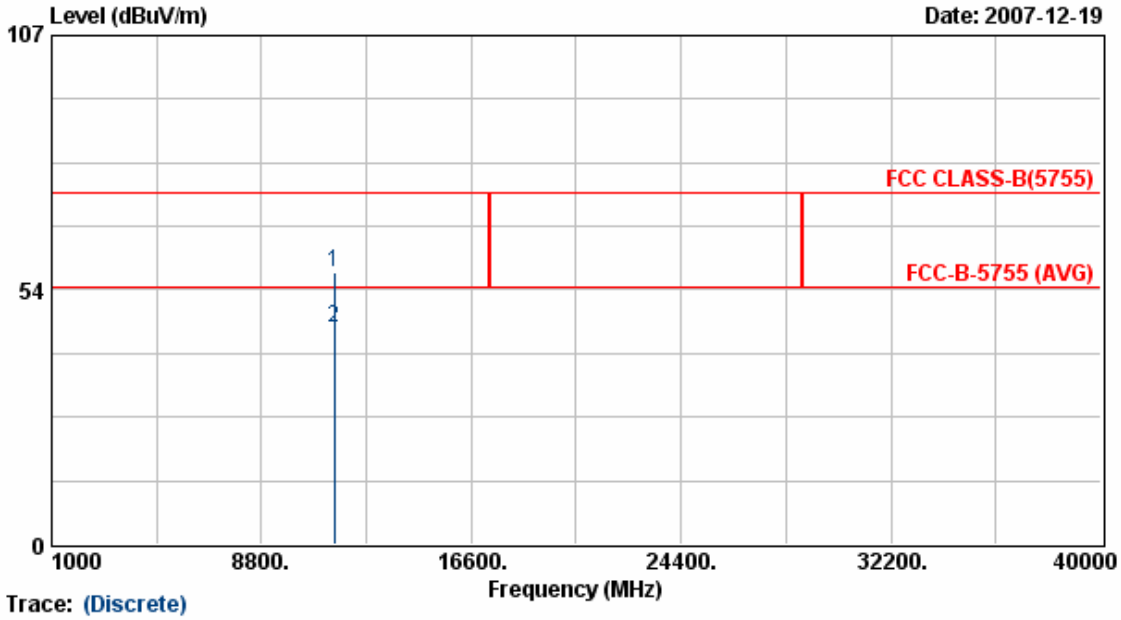
Trace: (Discrete)

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	11509.75	29.70	14.41	44.10	54.00	-9.90	Average	100	194
2	11509.75	41.70	14.41	56.10	74.00	-17.90	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



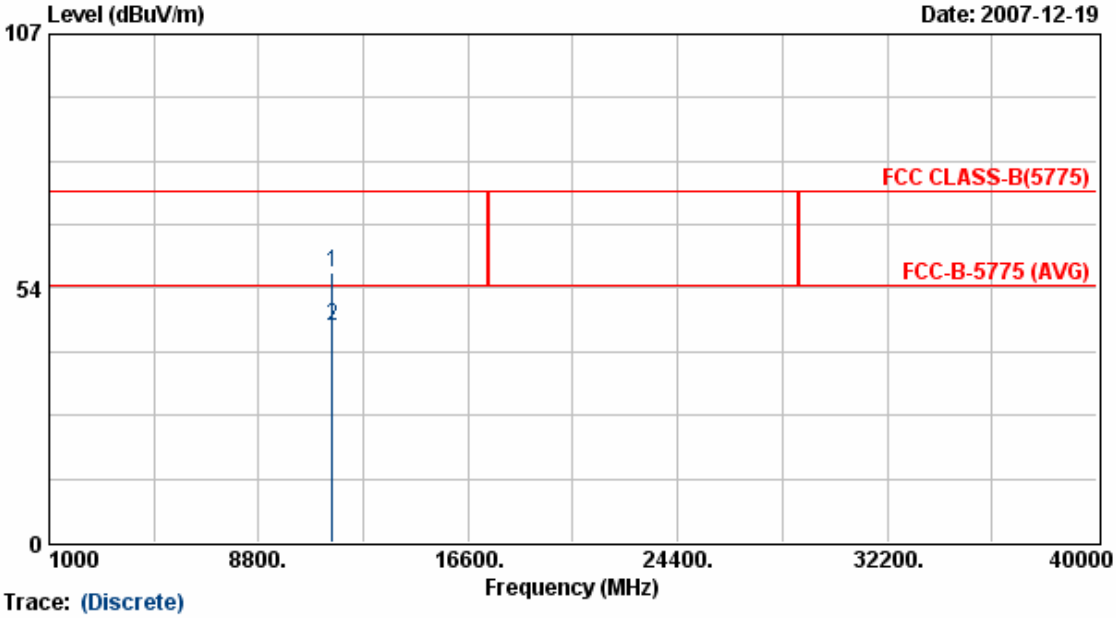
Trace: (Discrete)

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	11510.50	42.63	14.41	57.04	74.00	-16.96	Peak	100	201
2	11510.50	30.99	14.41	45.39	54.00	-8.61	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	155	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



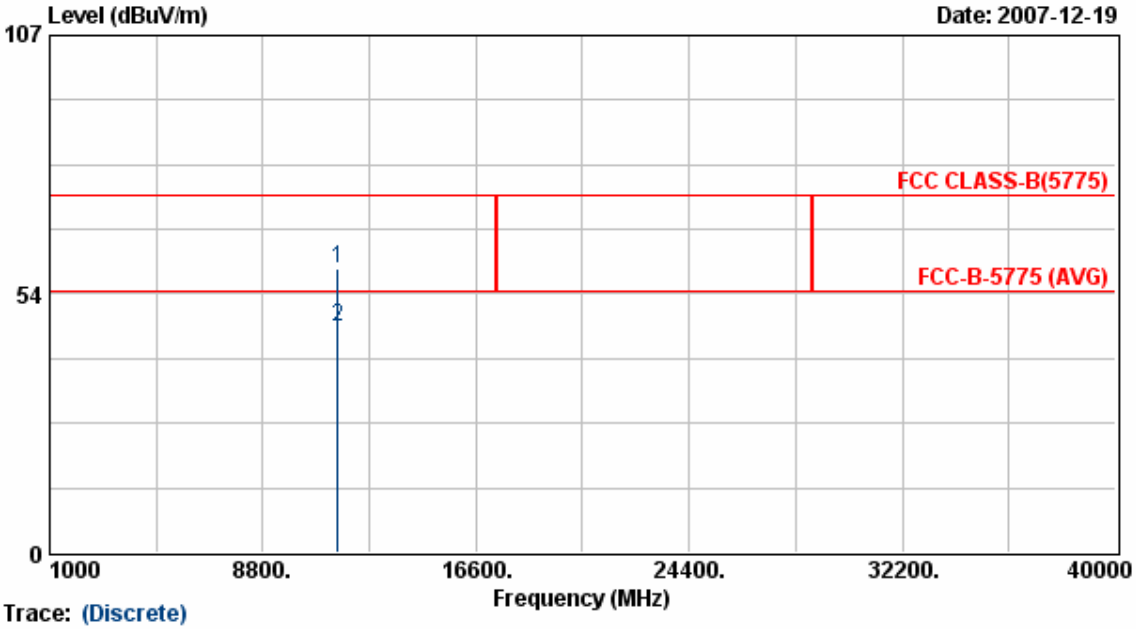
Trace: (Discrete)

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	11552.38	42.55	14.43	56.98	74.00	-17.02	Peak	100	194
2	11552.38	30.95	14.43	45.38	54.00	-8.62	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	155	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



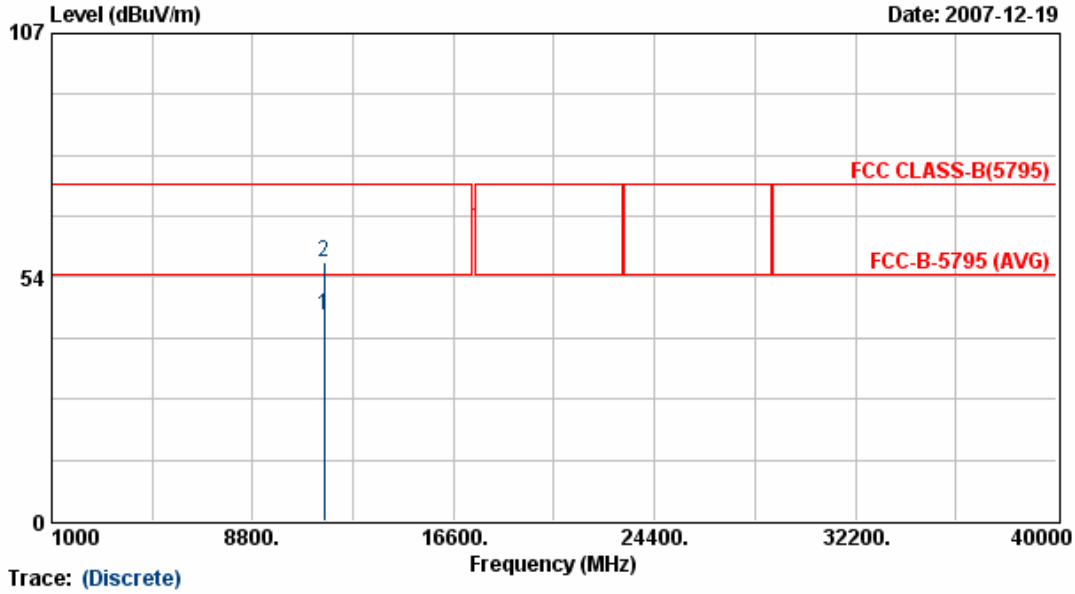
Trace: (Discrete)

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	11552.13	44.14	14.43	58.57	74.00	-15.43	Peak	100	201
2	11552.13	32.42	14.43	46.85	54.00	-7.15	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	159	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



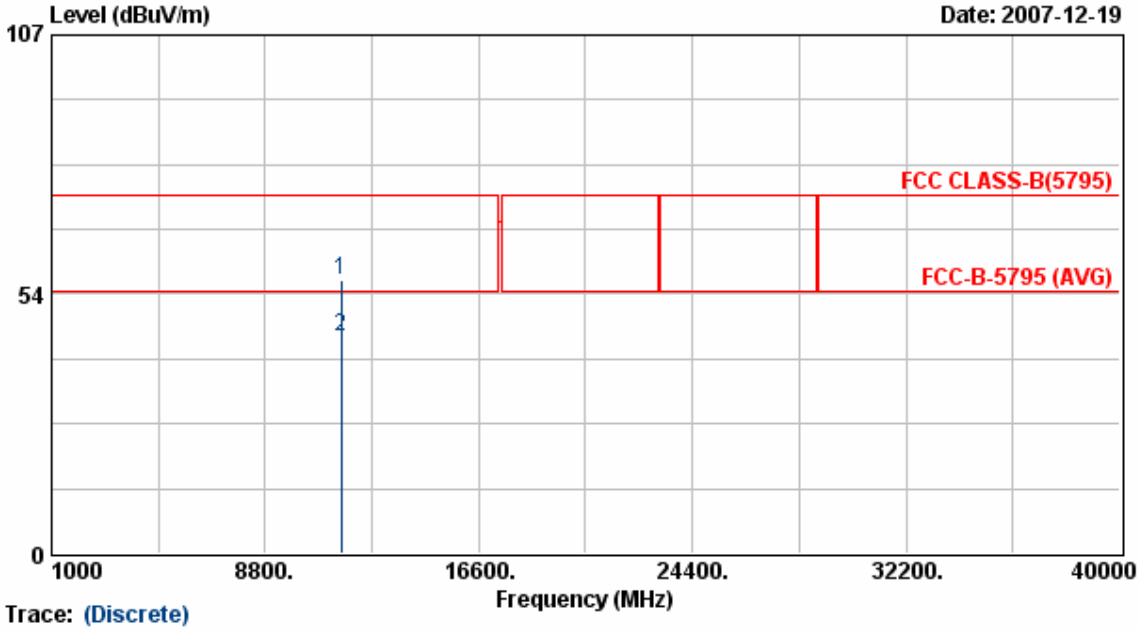
Trace: (Discrete)

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	11590.75	30.64	14.45	45.09	54.00	-8.91	Average	100	194
2	11590.75	42.47	14.45	56.92	74.00	-17.08	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	159	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



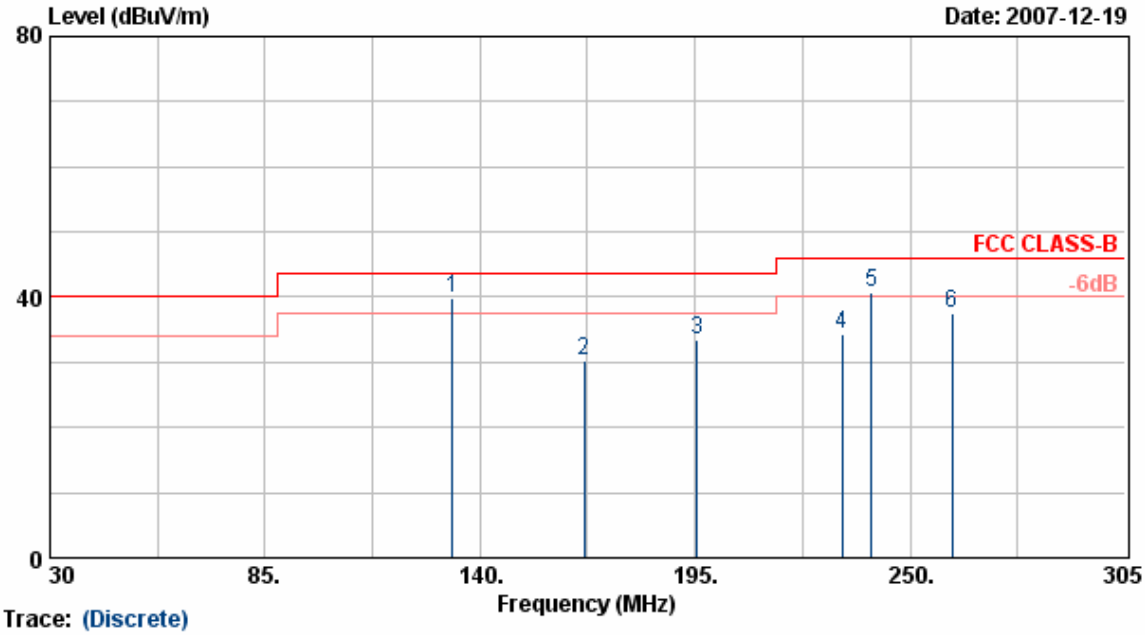
Trace: (Discrete)

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	11590.88	41.93	14.45	56.39	74.00	-17.61	Peak	100	201
2	11590.88	30.21	14.45	44.66	54.00	-9.34	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



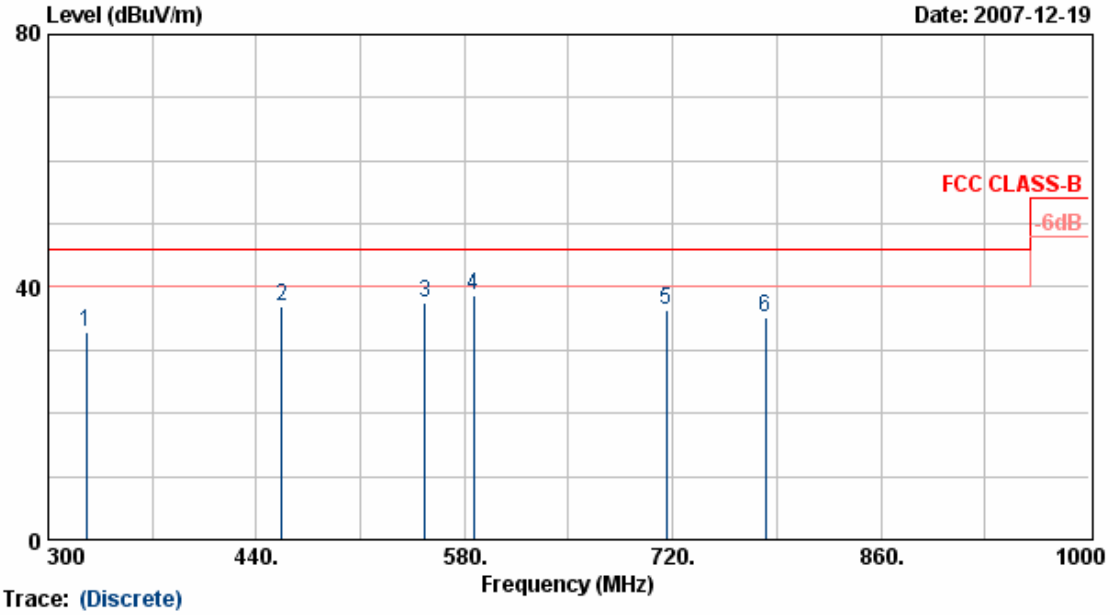
Trace: (Discrete)

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	132.85	52.77	-12.97	39.80	43.50	-3.70	QP	100	44
2	166.68	44.55	-14.41	30.14	43.50	-13.36	Peak	100	147
3	195.55	46.36	-13.01	33.36	43.50	-10.14	Peak	100	145
4	232.68	46.67	-12.38	34.29	46.00	-11.71	Peak	100	167
5	240.10	53.54	-12.70	40.84	46.00	-5.16	QP	100	166
6	260.73	48.70	-11.17	37.53	46.00	-8.47	Peak	150	111

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



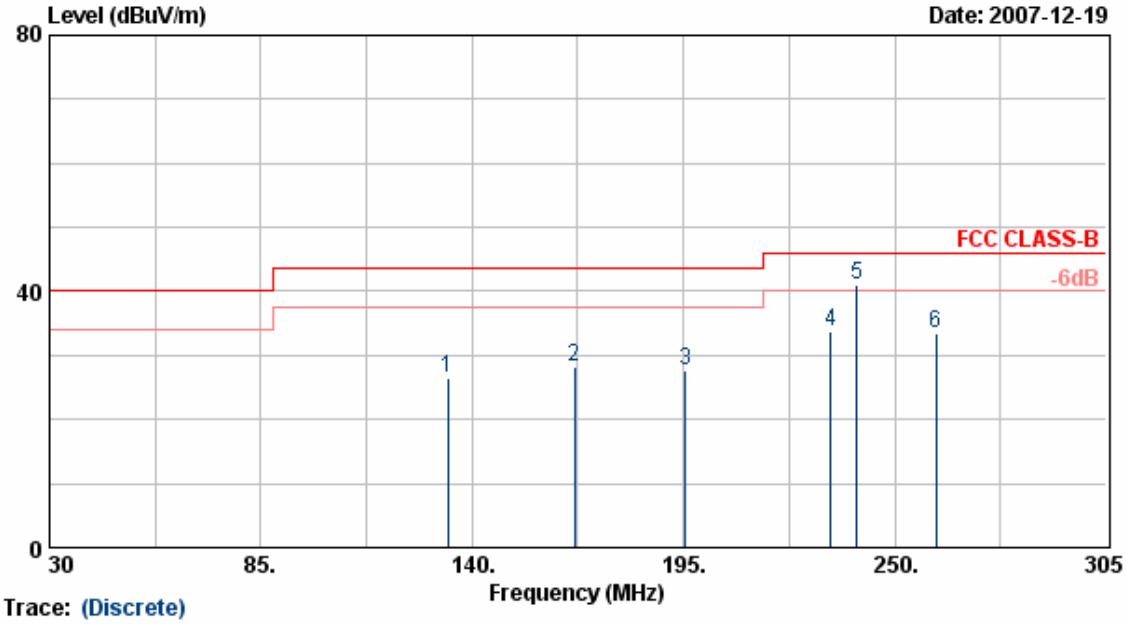
Trace: (Discrete)

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	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.67	-7.80	36.87	46.00	-9.13	Peak	100	137
3	553.40	42.37	-4.85	37.51	46.00	-8.49	Peak	100	117
4	586.30	48.50	-9.73	38.77	46.00	-7.23	Peak	100	211
5	715.80	41.36	-5.03	36.33	46.00	-9.67	Peak	100	136
6	782.30	39.50	-4.31	35.19	46.00	-10.81	Peak	100	110

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



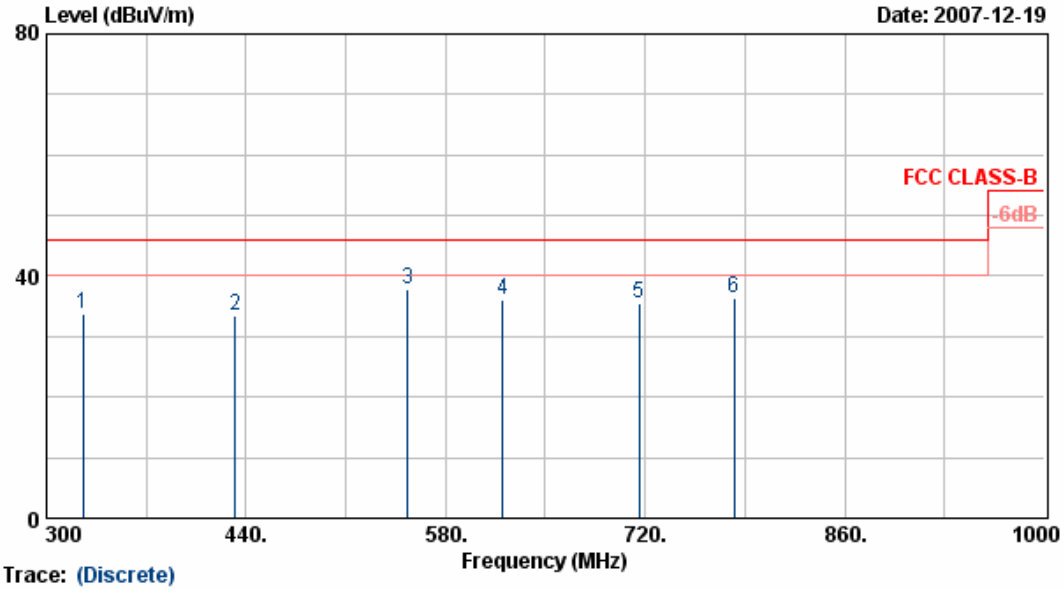
Trace: (Discrete)

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	133.68	45.94	-19.48	26.46	43.50	-17.04	Peak	100	127
2	166.68	48.47	-20.20	28.27	43.50	-15.23	Peak	100	117
3	195.55	47.34	-19.74	27.60	43.50	-15.90	Peak	100	217
4	233.23	50.49	-16.87	33.63	46.00	-12.37	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	47.90	-14.47	33.43	46.00	-12.57	Peak	100	197

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	65 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



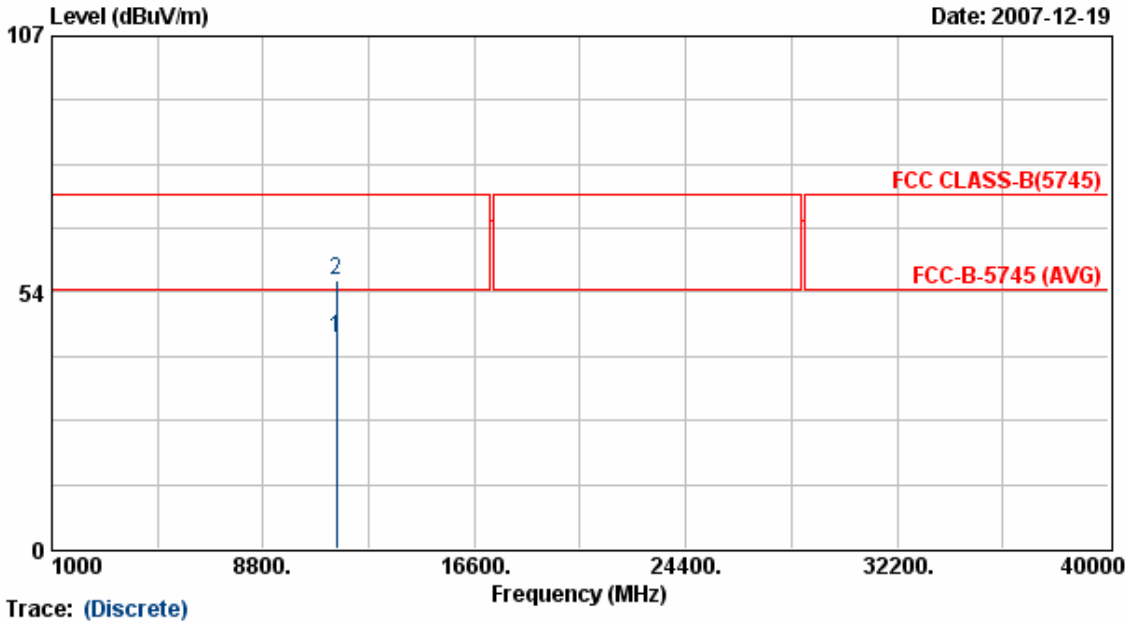
Trace: (Discrete)

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	325.90	47.50	-13.72	33.78	46.00	-12.22	Peak	100	217
2	432.30	41.47	-7.88	33.59	46.00	-12.41	Peak	100	211
3	553.40	41.75	-4.03	37.72	46.00	-8.28	Peak	100	211
4	619.90	40.56	-4.41	36.15	46.00	-9.85	Peak	100	114
5	715.80	43.61	-8.16	35.45	46.00	-10.55	Peak	100	164
6	782.30	41.91	-5.58	36.32	46.00	-9.68	Peak	100	41

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 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



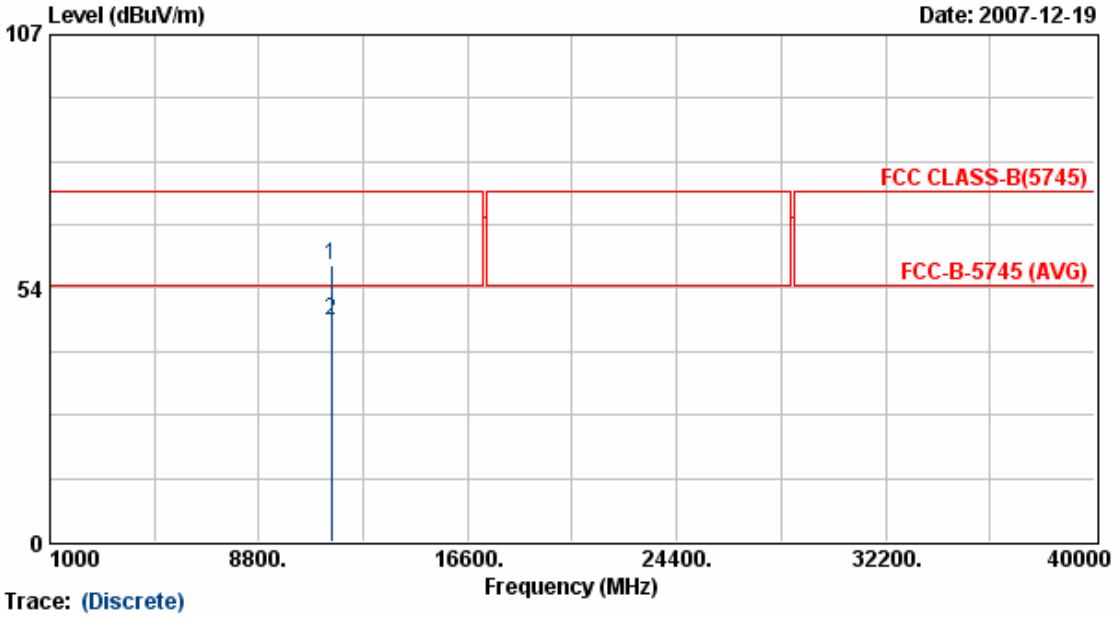
Trace: (Discrete)

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	11489.75	29.68	14.39	44.06	54.00	-9.94	Average	100	194
2	11489.75	41.77	14.39	56.16	74.00	-17.84	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



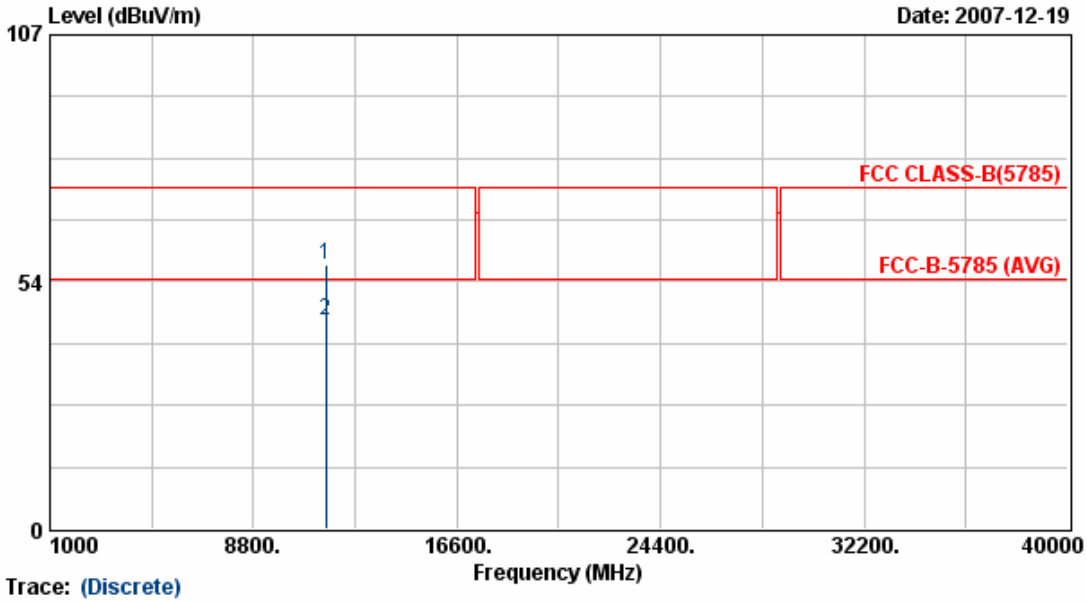
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11490.50	43.82	14.39	58.21	74.00	-15.79	Peak	100	201
2	11490.50	32.33	14.39	46.72	54.00	-7.28	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



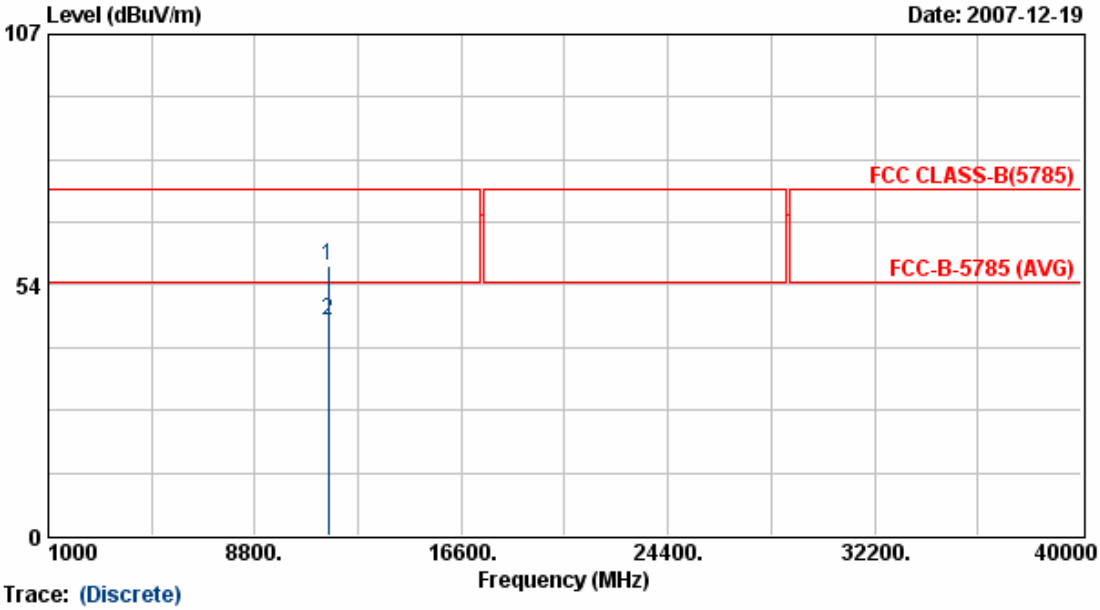
Trace: (Discrete)

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	11572.38	42.56	14.44	57.01	74.00	-16.99	Peak	100	194
2	11572.38	30.73	14.44	45.17	54.00	-8.83	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



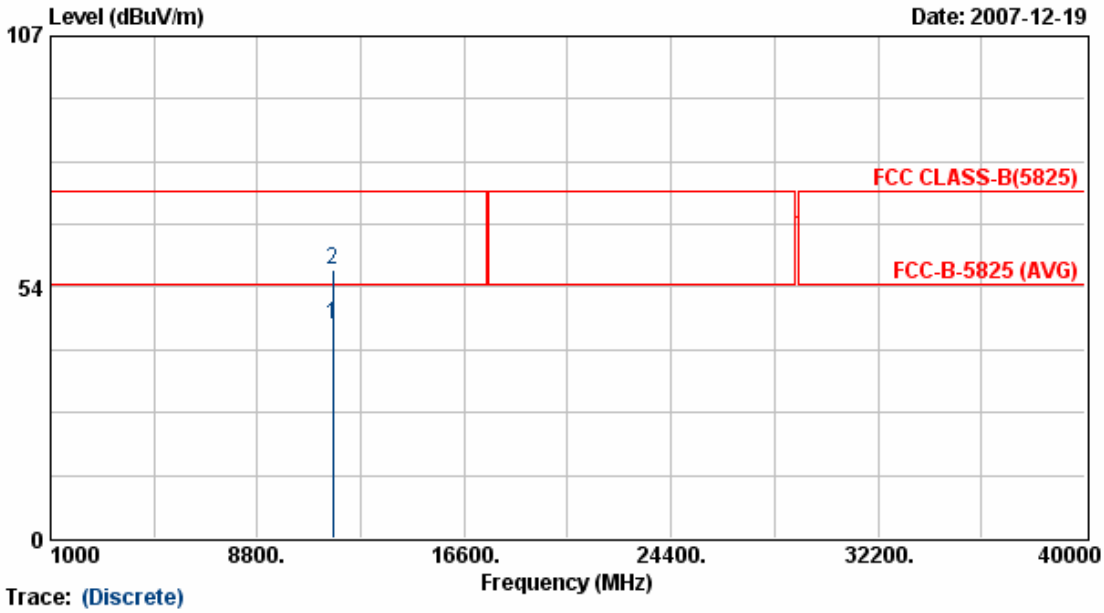
Trace: (Discrete)

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	11572.13	43.14	14.44	57.58	74.00	-16.42	Peak	100	201
2	11572.13	31.61	14.44	46.05	54.00	-7.95	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



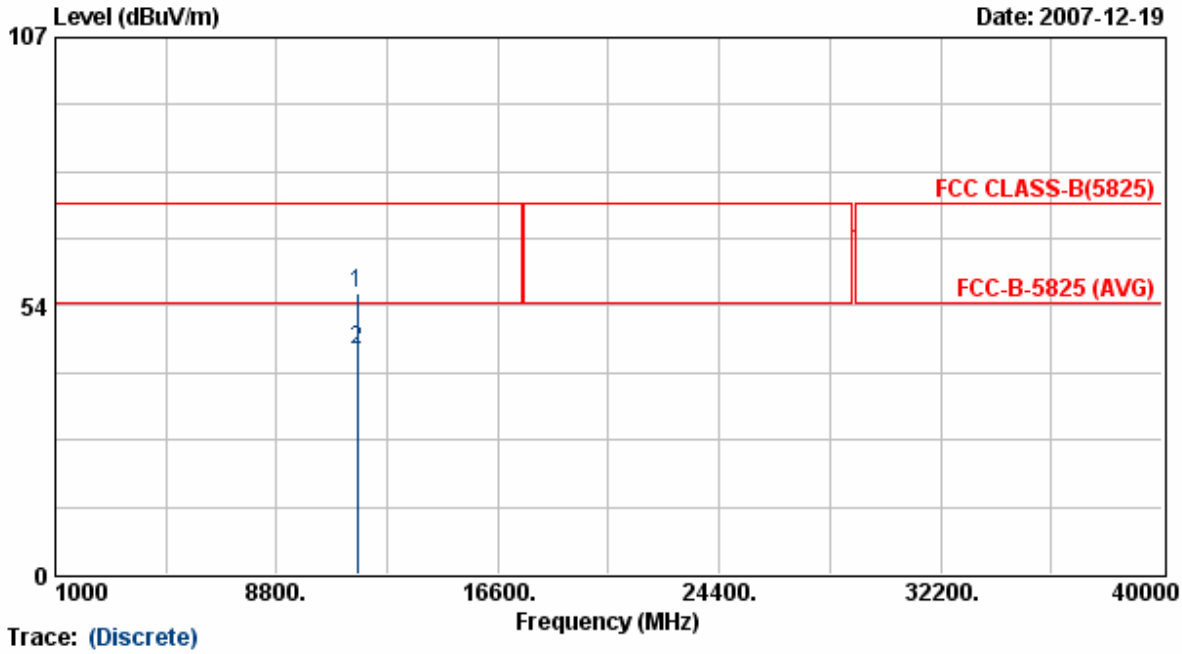
Trace: (Discrete)

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	11650.75	30.94	14.49	45.43	54.00	-8.57	Average	100	194
2	11650.75	42.53	14.49	57.02	74.00	-16.98	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11a	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



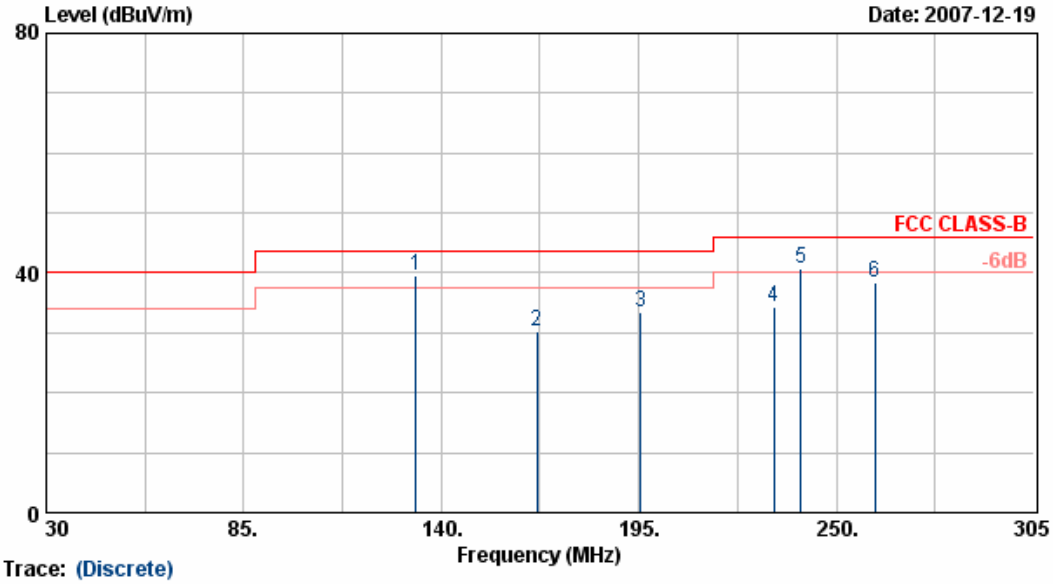
Trace: (Discrete)

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	11650.88	41.69	14.49	56.18	74.00	-17.82	Peak	100	201
2	11650.88	30.35	14.49	44.84	54.00	-9.16	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



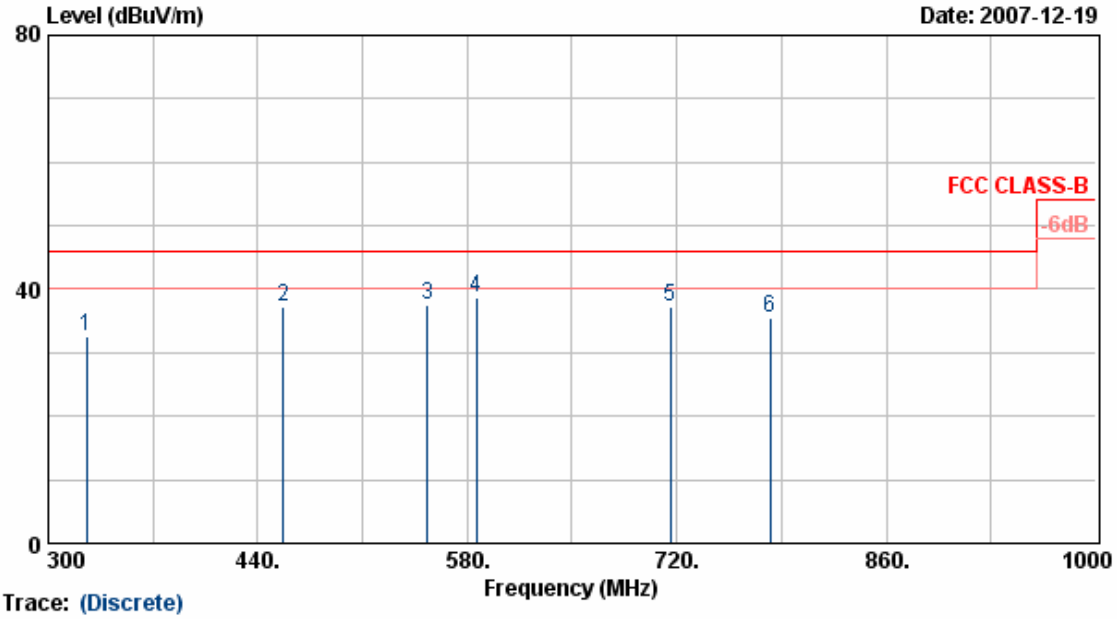
Trace: (Discrete)

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	132.85	52.58	-12.97	39.61	43.50	-3.89	QP	100	44
2	166.68	44.63	-14.41	30.23	43.50	-13.27	Peak	100	147
3	195.55	46.59	-13.01	33.59	43.50	-9.91	Peak	100	145
4	232.68	46.64	-12.38	34.26	46.00	-11.74	Peak	100	167
5	240.10	53.38	-12.70	40.68	46.00	-5.32	QP	100	166
6	260.73	49.63	-11.17	38.46	46.00	-7.54	Peak	150	111

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



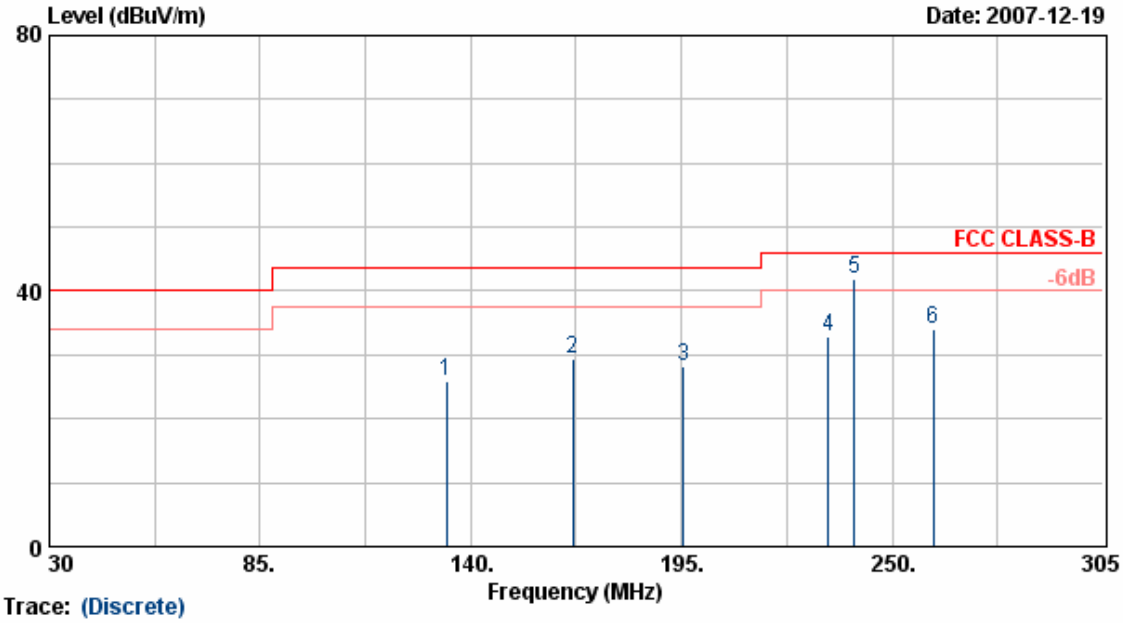
Trace: (Discrete)

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	325.90	44.37	-11.71	32.65	46.00	-13.35	Peak	100	199
2	456.80	44.97	-7.80	37.17	46.00	-8.83	Peak	100	137
3	553.40	42.34	-4.85	37.48	46.00	-8.52	Peak	100	117
4	586.30	48.50	-9.73	38.77	46.00	-7.23	Peak	100	211
5	715.80	42.24	-5.03	37.21	46.00	-8.79	Peak	100	136
6	782.30	39.87	-4.31	35.56	46.00	-10.44	Peak	100	110

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



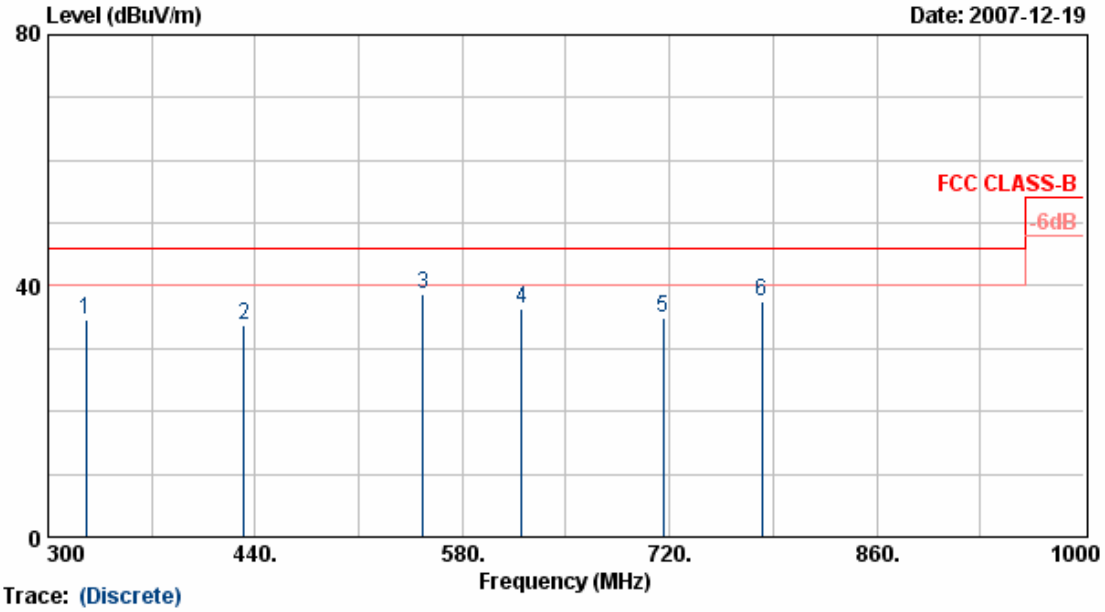
Trace: (Discrete)

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	133.68	45.48	-19.48	26.00	43.50	-17.50	Peak	100	127
2	166.68	49.46	-20.20	29.26	43.50	-14.24	Peak	100	117
3	195.55	48.10	-19.74	28.36	43.50	-15.14	Peak	100	217
4	233.23	49.66	-16.87	32.80	46.00	-13.20	Peak	100	138
5	240.10	59.67	-17.80	41.87	46.00	-4.13	QP	100	167
6	260.73	48.40	-14.47	33.93	46.00	-12.07	Peak	100	197

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



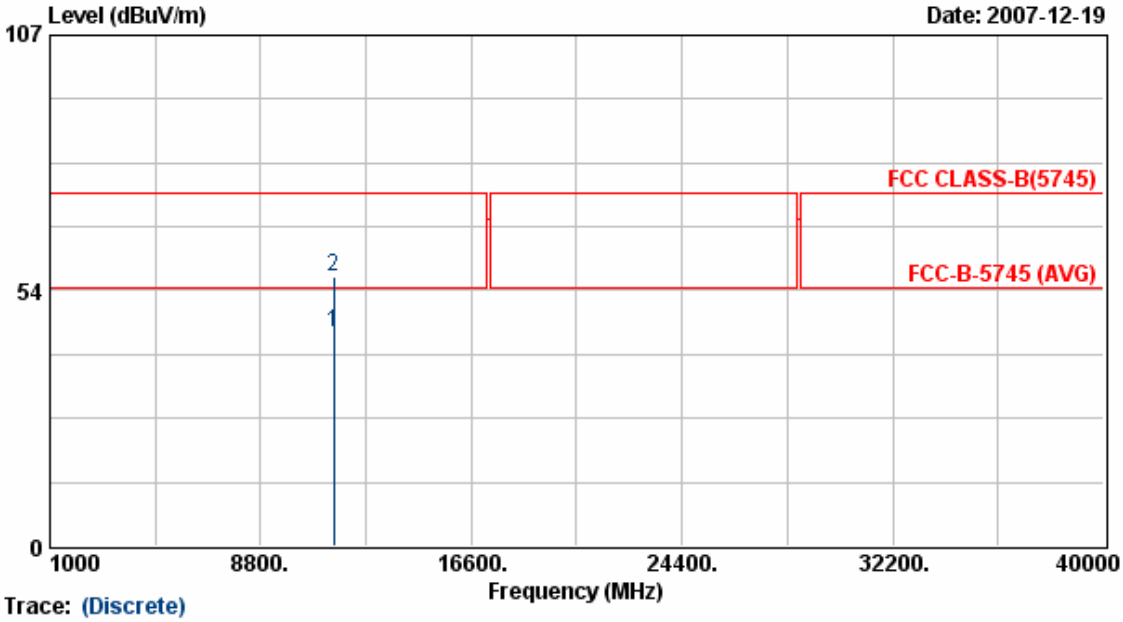
Trace: (Discrete)

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	325.90	48.47	-13.72	34.75	46.00	-11.25	Peak	100	217
2	432.30	41.56	-7.88	33.68	46.00	-12.32	Peak	100	211
3	553.40	42.65	-4.03	38.62	46.00	-7.38	Peak	100	211
4	619.90	40.66	-4.41	36.25	46.00	-9.75	Peak	100	114
5	715.80	43.21	-8.16	35.05	46.00	-10.95	Peak	100	164
6	782.30	42.99	-5.58	37.40	46.00	-8.60	Peak	100	41

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



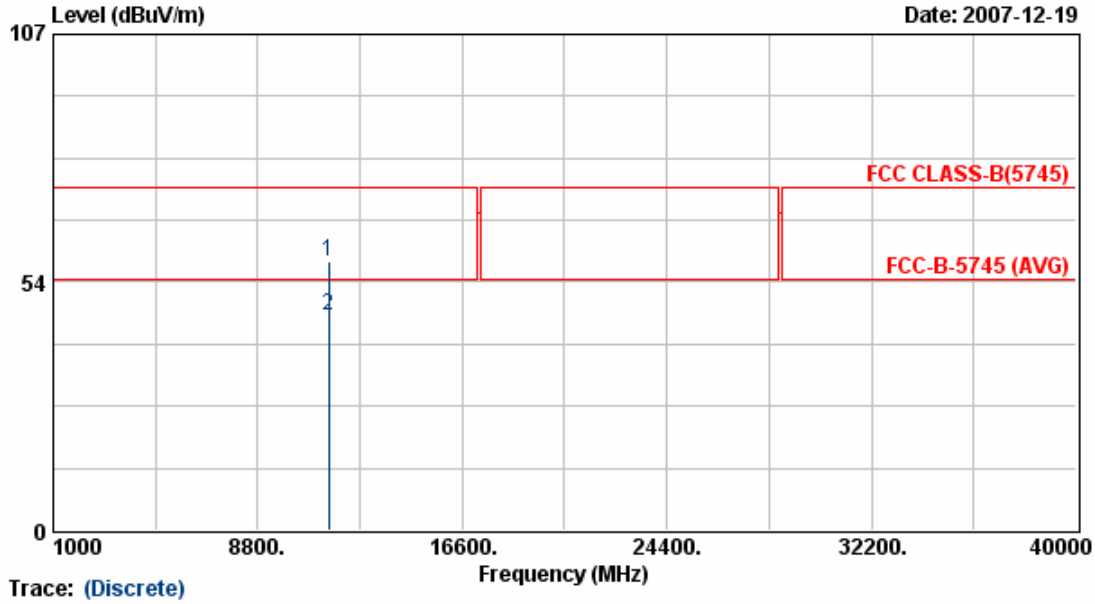
Trace: (Discrete)

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	11489.75	30.37	14.39	44.76	54.00	-9.24	Average	100	194
2	11489.75	41.96	14.39	56.34	74.00	-17.66	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	149	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



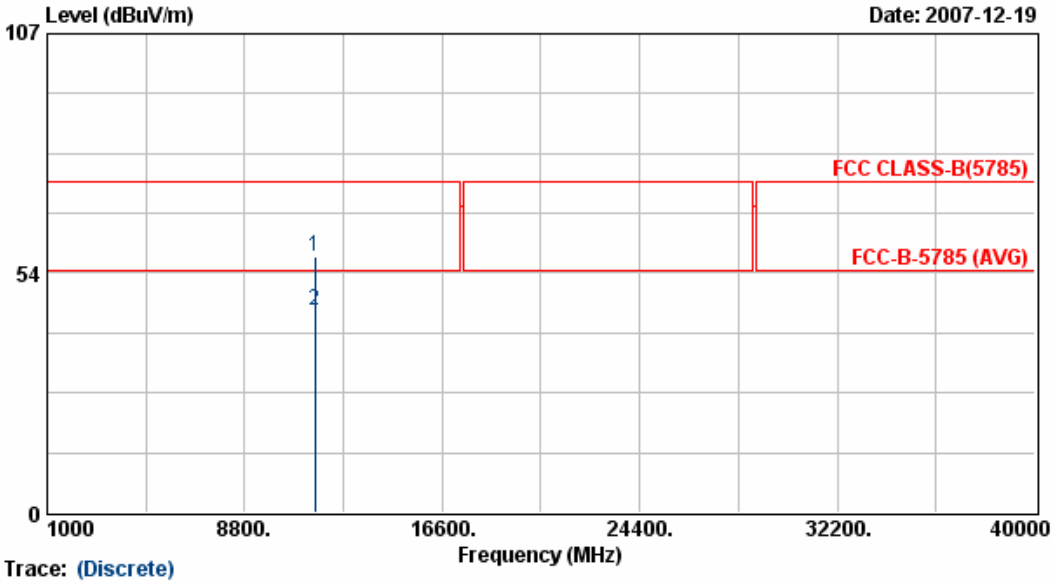
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11490.50	43.62	14.39	58.01	74.00	-15.99	Peak	100	201
2	11490.50	31.88	14.39	46.27	54.00	-7.73	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



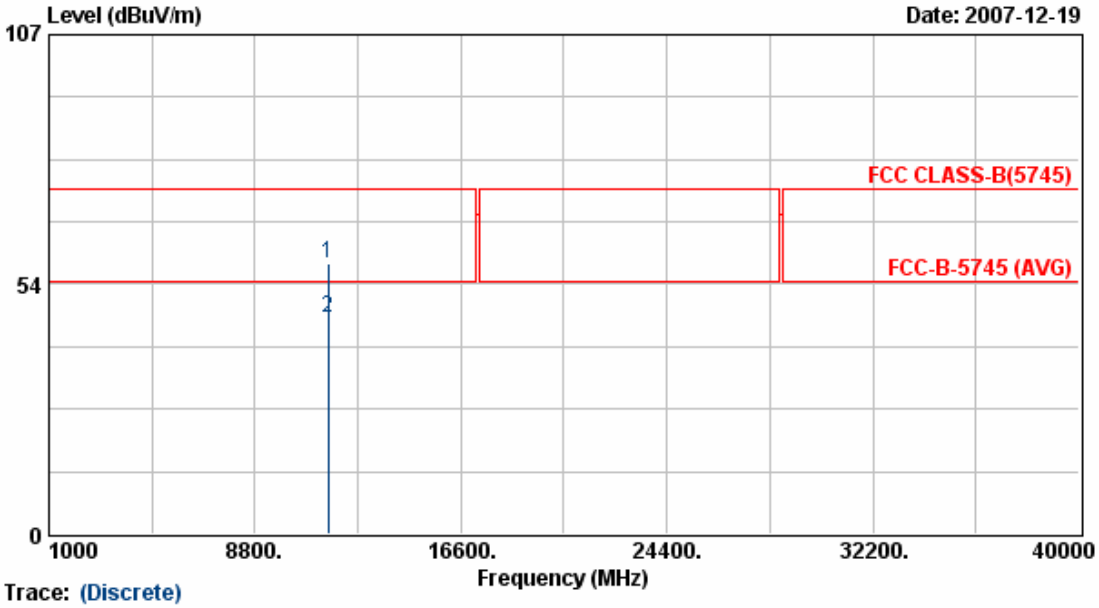
Trace: (Discrete)

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	11572.38	42.63	14.44	57.07	74.00	-16.93	Peak	100	194
2	11572.38	30.75	14.44	45.19	54.00	-8.81	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	157	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



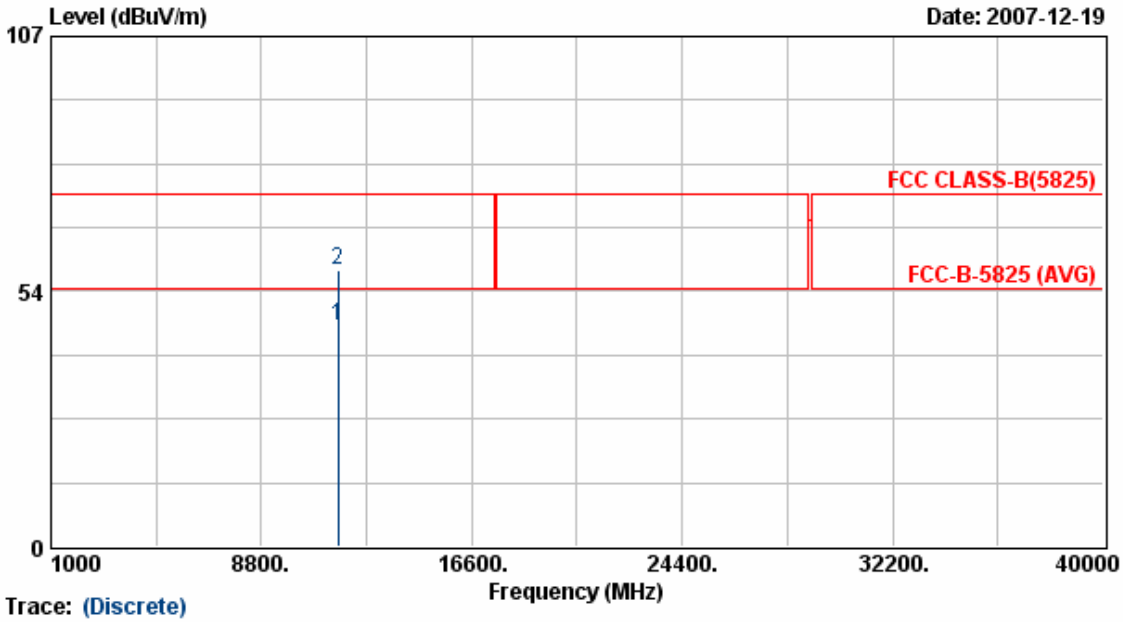
Trace: (Discrete)

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	11572.13	43.45	14.44	57.90	74.00	-16.10	Peak	100	201
2	11572.13	31.81	14.44	46.25	54.00	-7.75	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



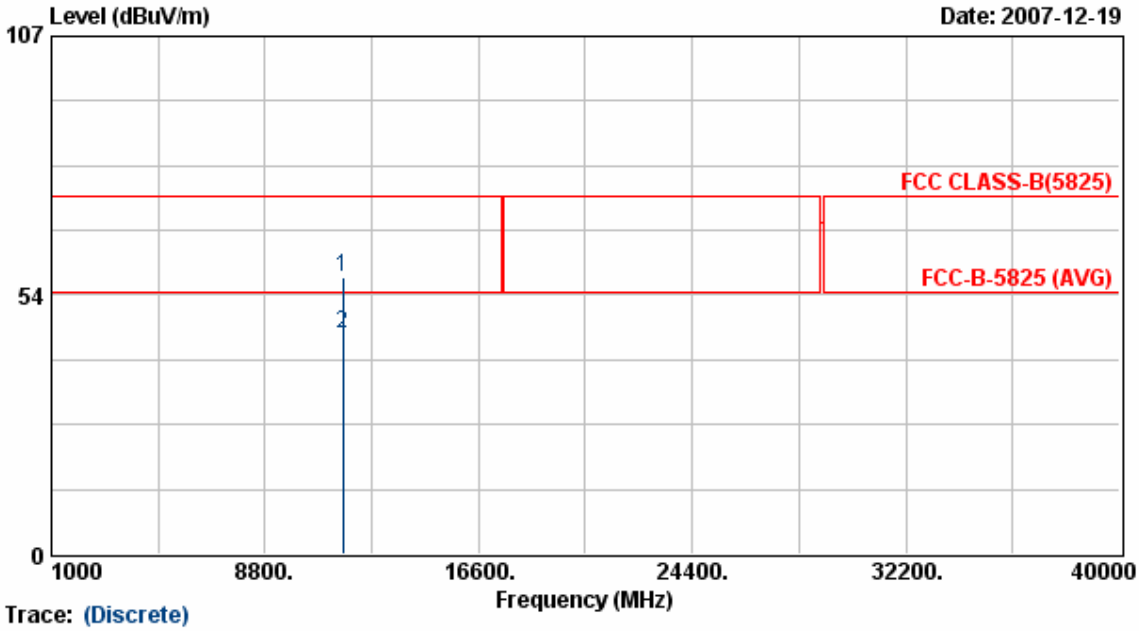
Trace: (Discrete)

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	11650.75	31.89	14.49	46.38	54.00	-7.62	Average	100	194
2	11650.75	43.58	14.49	58.07	74.00	-15.93	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	165	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



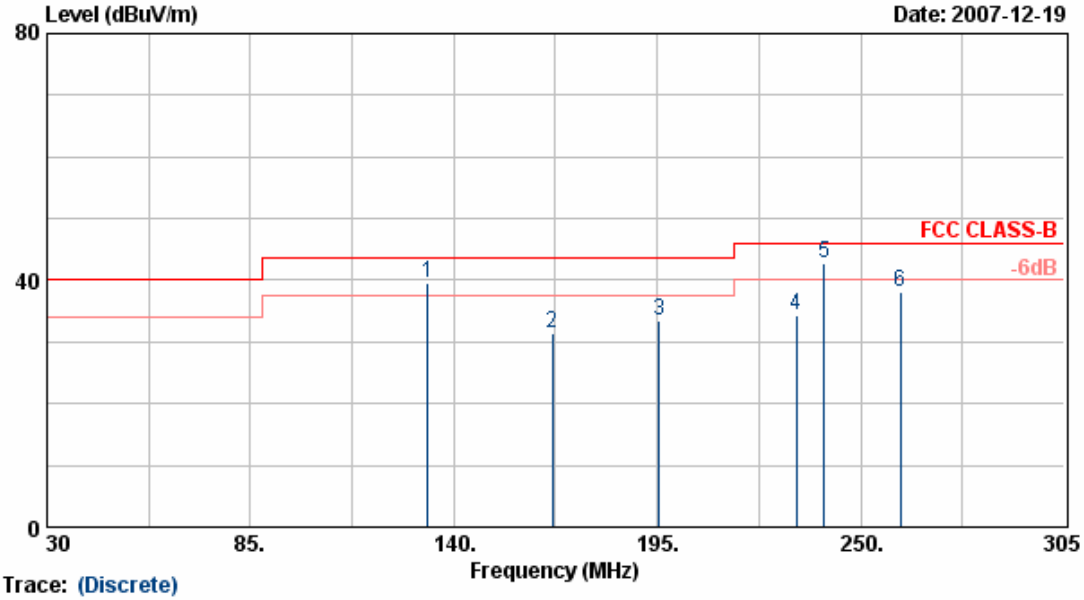
Trace: (Discrete)

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	11650.88	42.87	14.49	57.36	74.00	-16.64	Peak	100	201
2	11650.88	30.95	14.49	45.44	54.00	-8.56	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



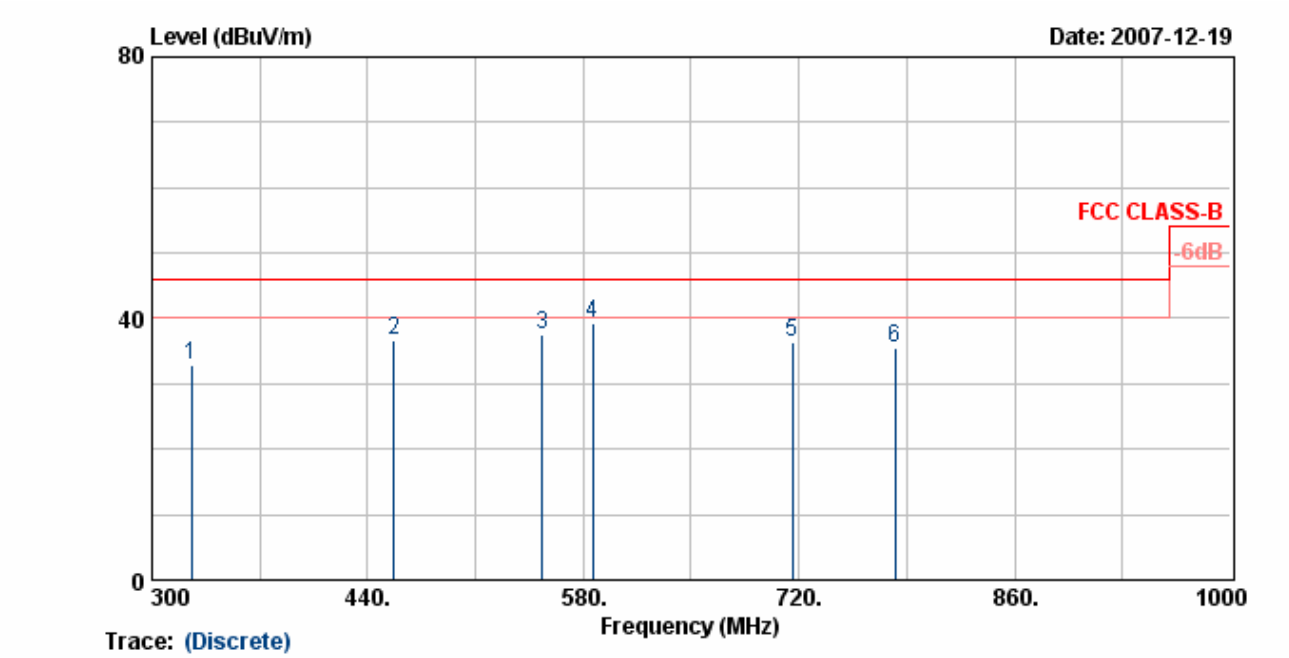
Trace: (Discrete)

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	132.85	52.53	-12.97	39.56	43.50	-3.94	QP	100	44
2	166.68	45.85	-14.41	31.44	43.50	-12.06	Peak	100	147
3	195.55	46.35	-13.01	33.35	43.50	-10.15	Peak	100	145
4	232.68	46.70	-12.38	34.32	46.00	-11.68	Peak	100	167
5	240.10	55.54	-12.70	42.84	46.00	-3.16	QP	100	166
6	260.73	49.39	-11.17	38.22	46.00	-7.78	Peak	150	111

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



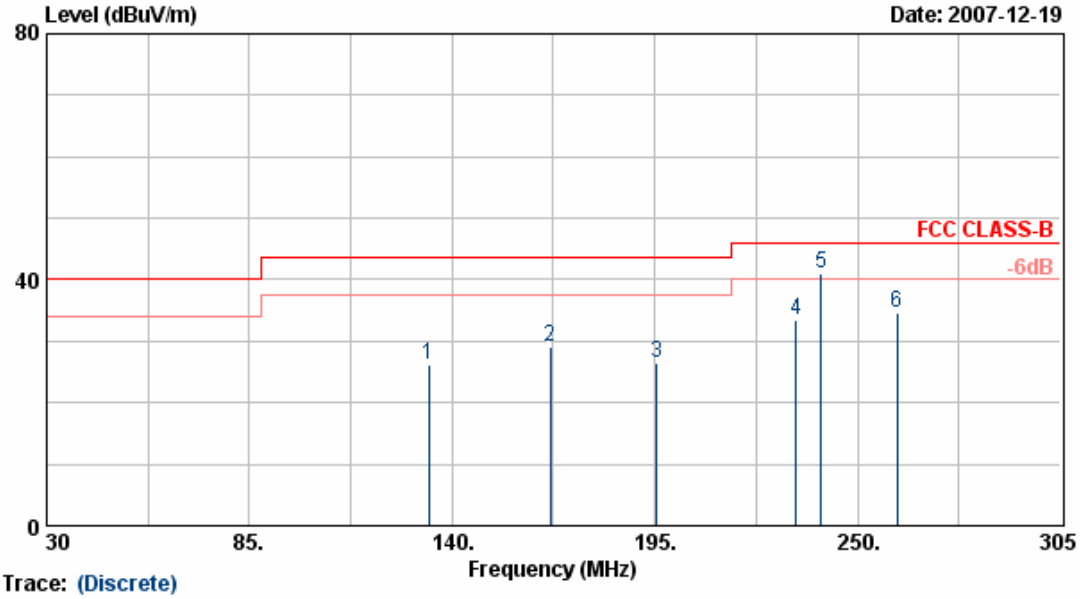
Trace: (Discrete)

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	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.44	-7.80	36.64	46.00	-9.36	Peak	100	137
3	553.40	42.46	-4.85	37.60	46.00	-8.40	Peak	100	117
4	586.30	48.98	-9.73	39.25	46.00	-6.75	Peak	100	211
5	715.80	41.46	-5.03	36.43	46.00	-9.57	Peak	100	136
6	782.30	39.77	-4.31	35.46	46.00	-10.54	Peak	100	110

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



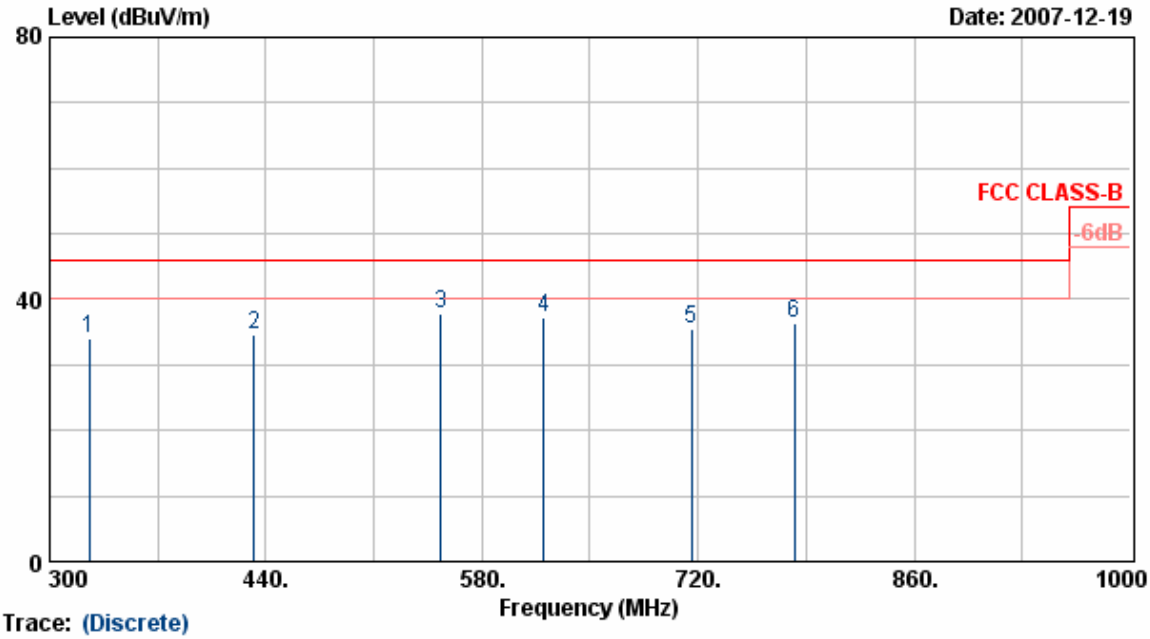
Trace: (Discrete)

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	133.68	45.69	-19.48	26.20	43.50	-17.30	Peak	100	127
2	166.68	49.34	-20.20	29.14	43.50	-14.36	Peak	100	117
3	195.55	46.10	-19.74	26.36	43.50	-17.14	Peak	100	217
4	233.23	50.46	-16.87	33.60	46.00	-12.40	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	48.98	-14.47	34.51	46.00	-11.49	Peak	100	197

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



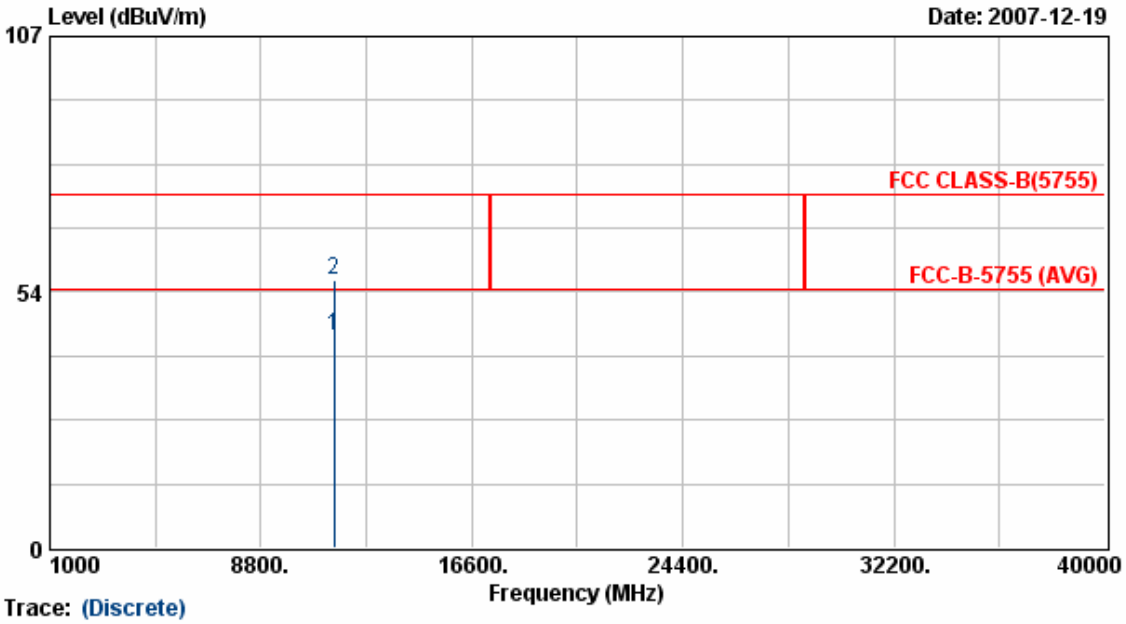
Trace: (Discrete)

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	325.90	47.67	-13.72	33.95	46.00	-12.05	Peak	100	217
2	432.30	42.45	-7.88	34.56	46.00	-11.44	Peak	100	211
3	553.40	41.75	-4.03	37.72	46.00	-8.28	Peak	100	211
4	619.90	41.56	-4.41	37.15	46.00	-8.85	Peak	100	114
5	715.80	43.52	-8.16	35.36	46.00	-10.64	Peak	100	164
6	782.30	41.99	-5.58	36.40	46.00	-9.60	Peak	100	41

Notes:

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

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



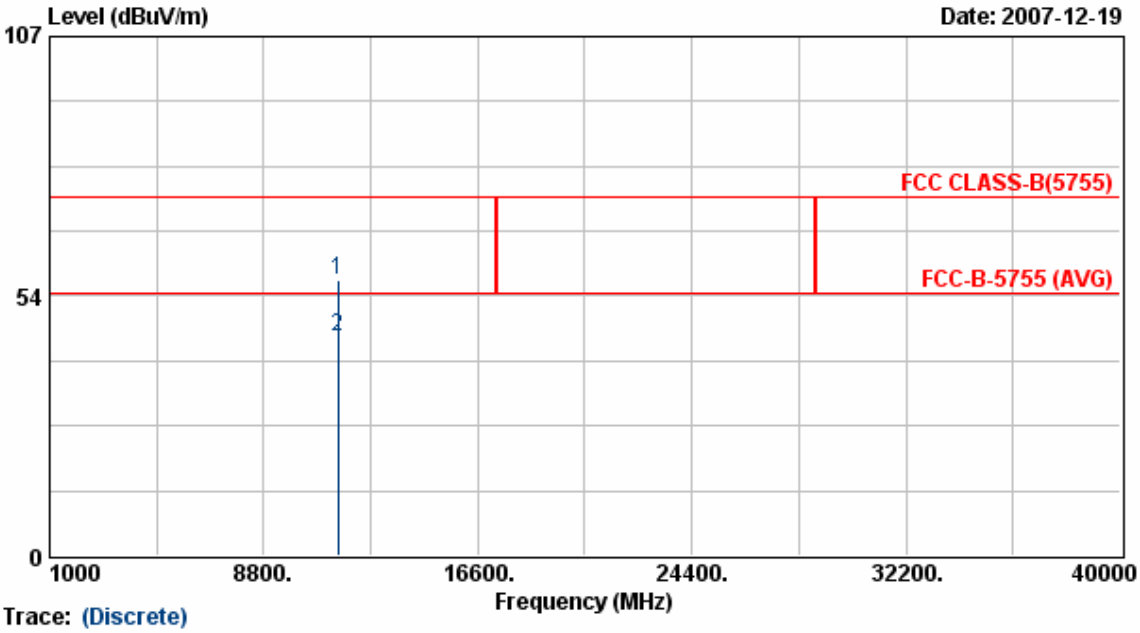
Trace: (Discrete)

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	11509.75	29.86	14.41	44.26	54.00	-9.74	Average	100	194
2	11509.75	41.47	14.41	55.87	74.00	-18.13	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	151	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



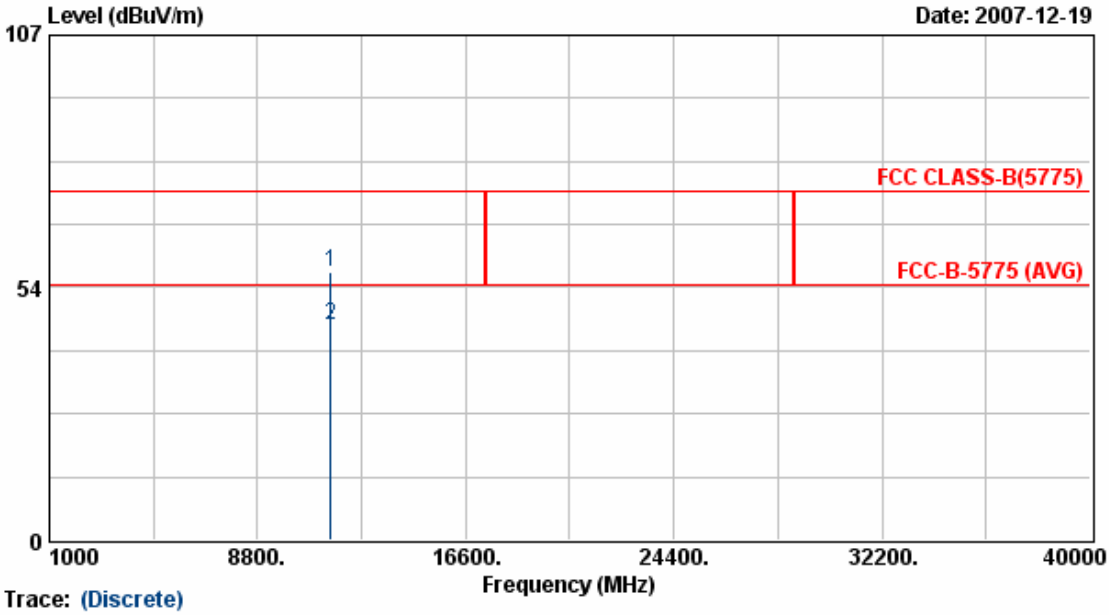
Trace: (Discrete)

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	11510.50	42.31	14.41	56.71	74.00	-17.29	Peak	100	201
2	11510.50	30.59	14.41	44.99	54.00	-9.01	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	155	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



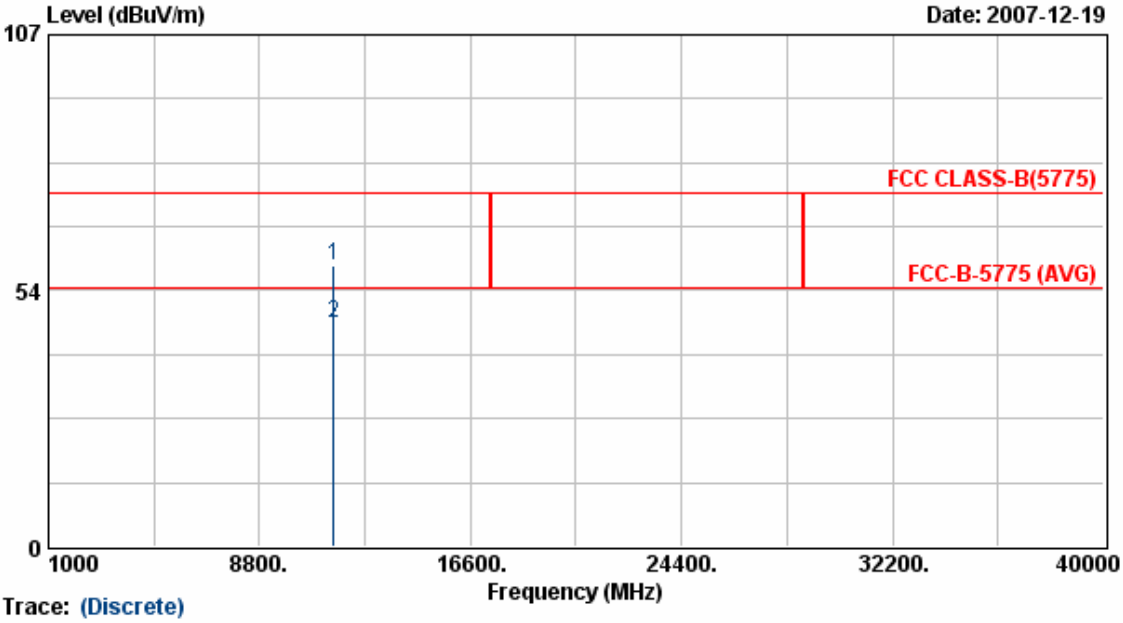
Trace: (Discrete)

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	11552.38	42.56	14.43	56.99	74.00	-17.01	Peak	100	194
2	11552.38	30.97	14.43	45.40	54.00	-8.60	Average	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	155	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



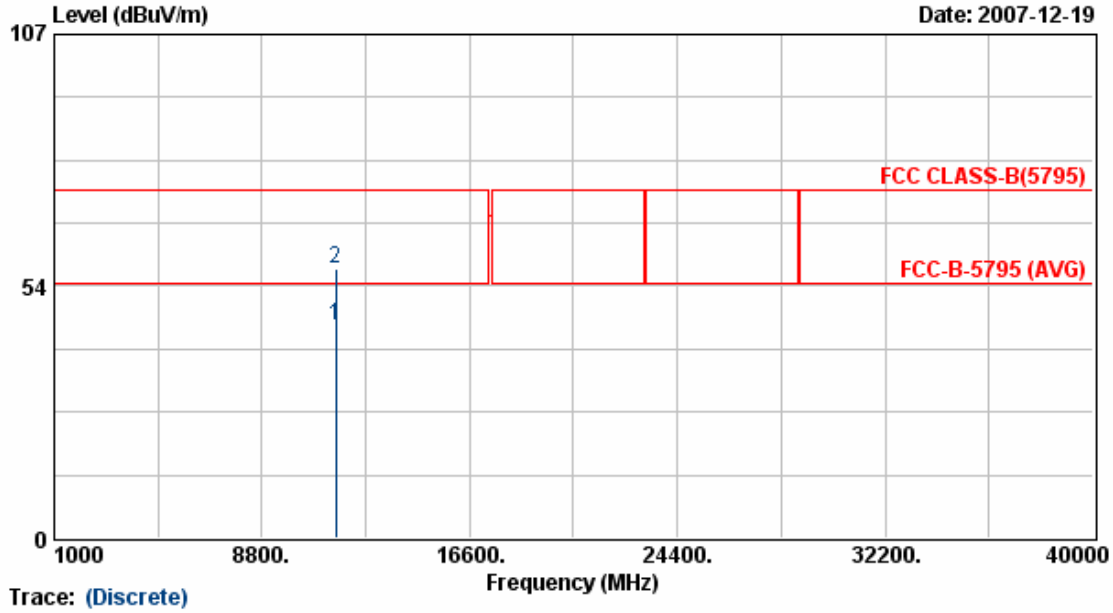
Trace: (Discrete)

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	11552.13	44.16	14.43	58.59	74.00	-15.41	Peak	100	201
2	11552.13	32.43	14.43	46.86	54.00	-7.14	Average	100	201

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	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	159	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



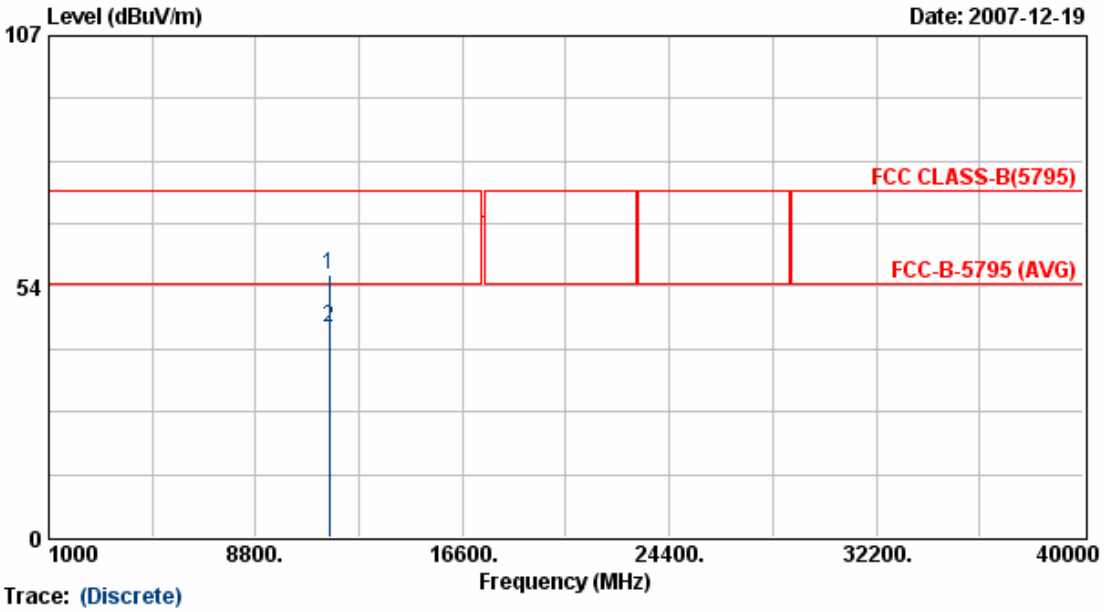
Trace: (Discrete)

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	11590.75	30.74	14.45	45.19	54.00	-8.81	Average	100	194
2	11590.75	42.69	14.45	57.14	74.00	-16.86	Peak	100	194

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	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	159	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



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	11590.88	41.73	14.45	56.19	74.00	-17.81	Peak	100	201
2	11590.88	30.21	14.45	44.66	54.00	-9.34	Average	100	201

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.

12. 6dB Bandwidth Measurement Data (For 802.11a device)

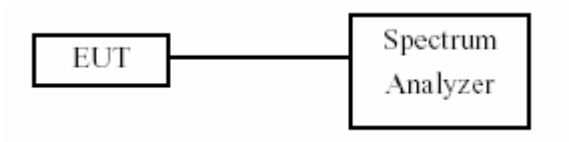
12.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

12.2 Test Procedures

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

12.3 Test Setup Layout



12.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

12.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11a (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
149	5745	16.40
157	5785	16.40
165	5825	16.30

(2) Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

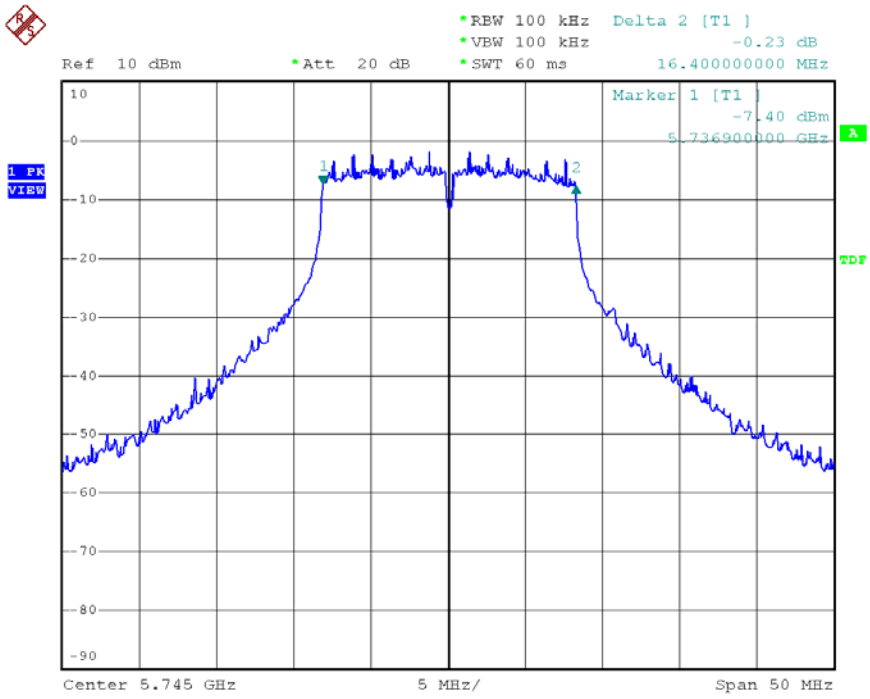
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
149	5745	17.20	17.60
157	5785	17.20	17.20
165	5825	17.20	17.20

(3) Modulation Standard: 802.11n HT40 (13.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
151	5755	36.40	36.40
155	5775	36.60	36.60
159	5795	36.00	36.20

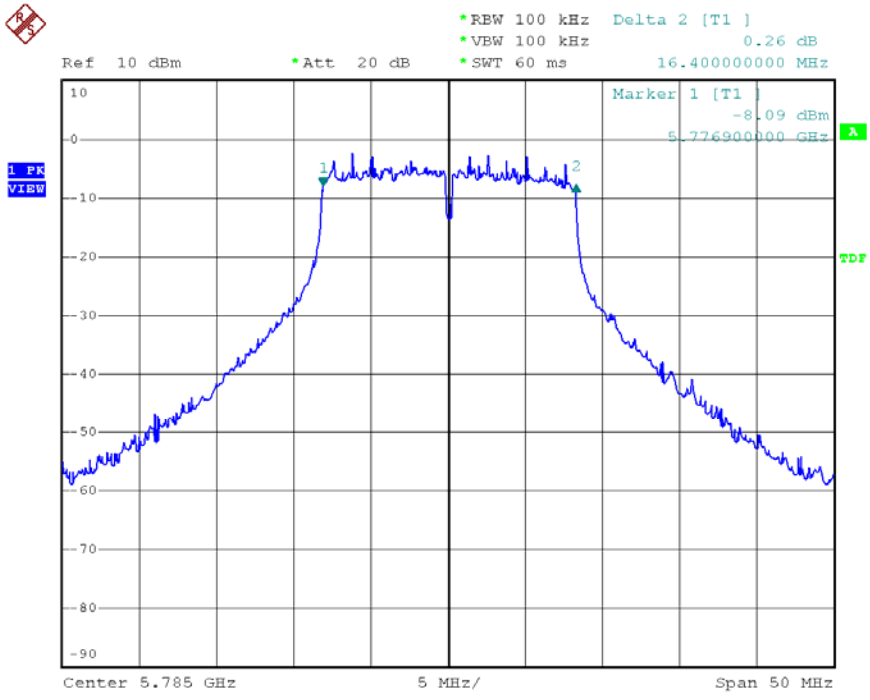
Modulation Standard: 802.11a (6Mbps)

Channel: 149



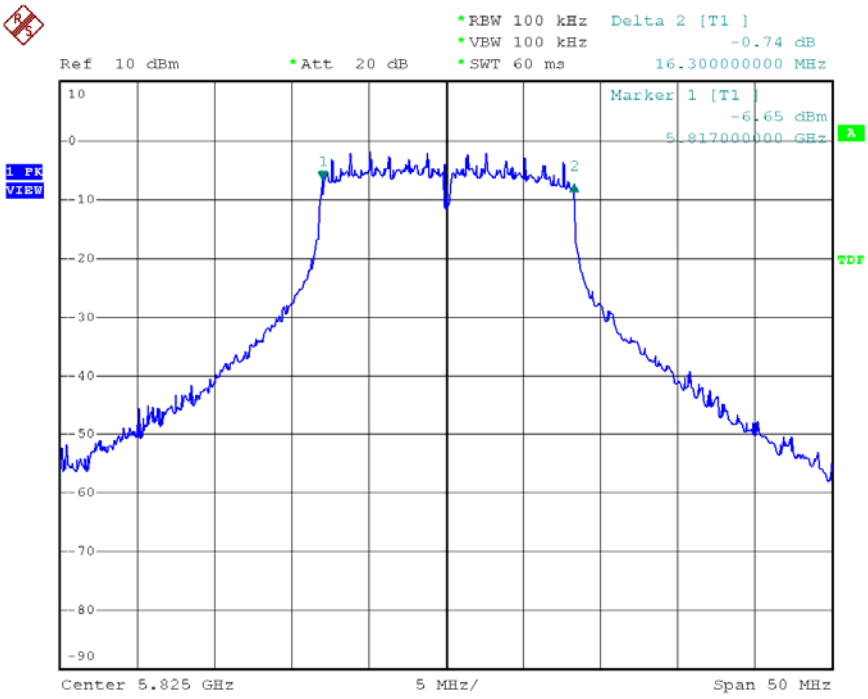
Date: 21.DEC.2007 05:50:42

Channel:157



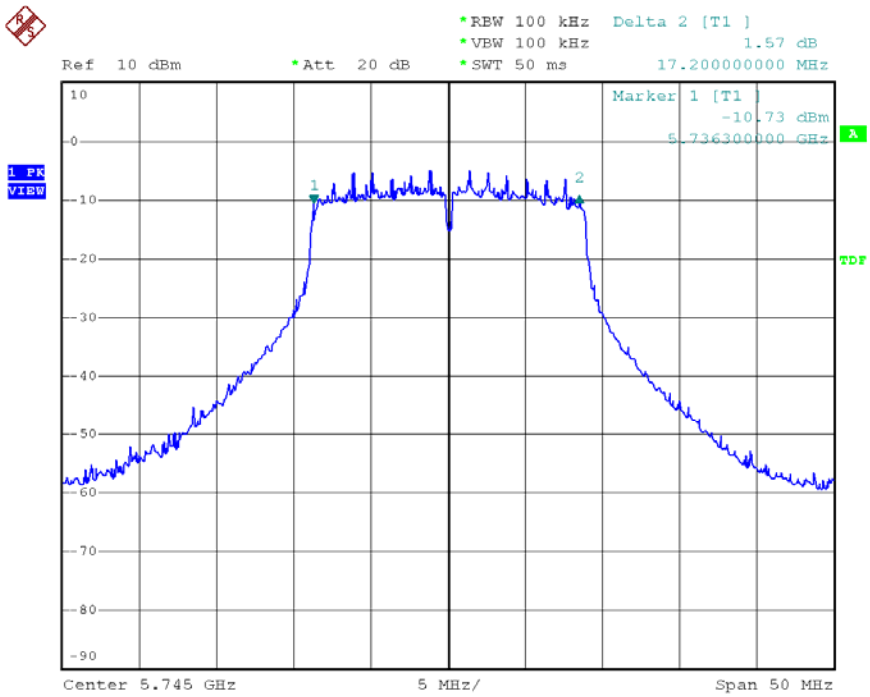
Date: 21.DEC.2007 05:51:33

Channel: 165



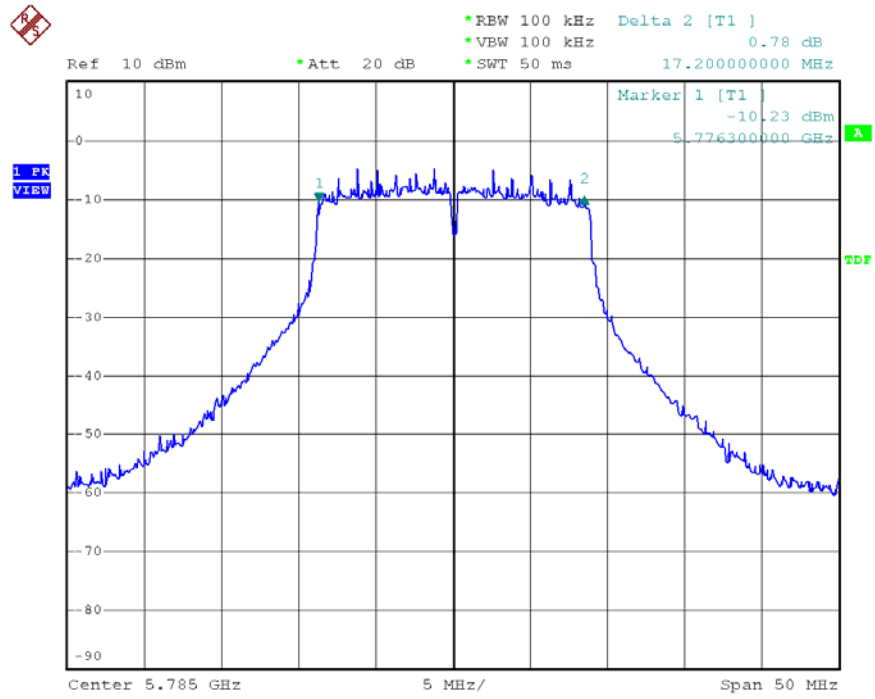
Date: 21.DEC.2007 05:52:28

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 149



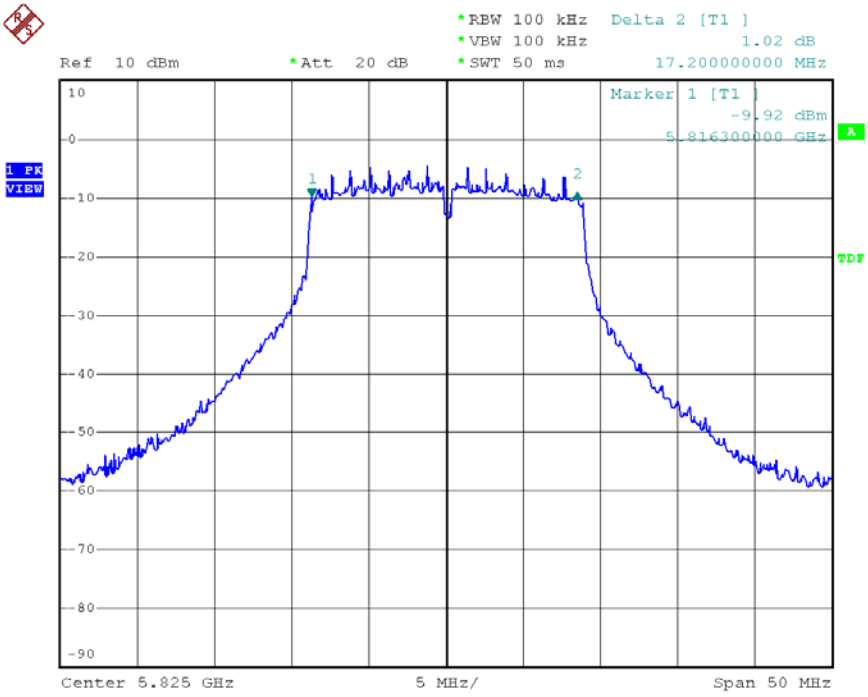
Date: 21.DEC.2007 05:17:25

Channel:157



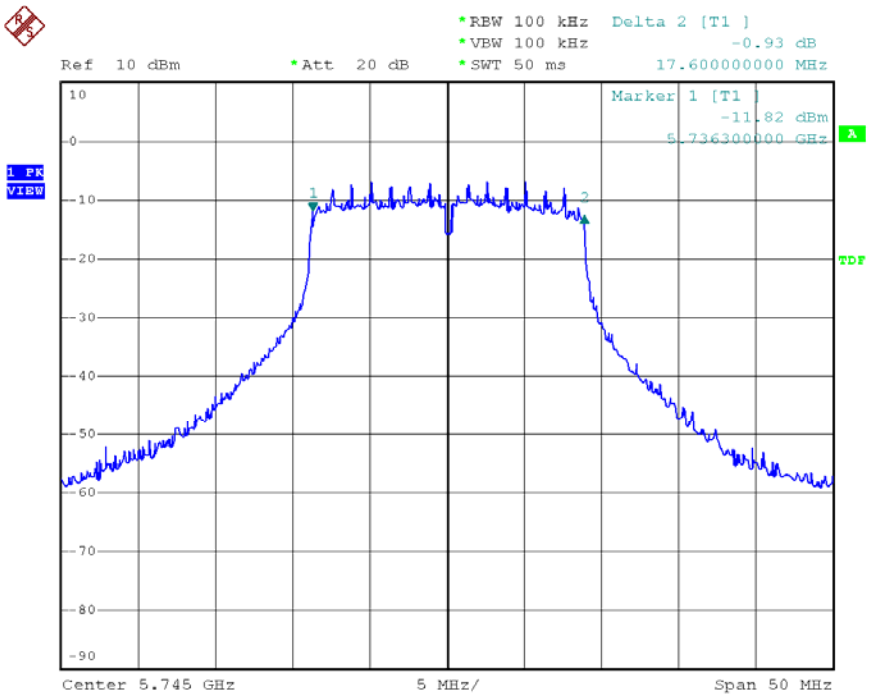
Date: 21.DEC.2007 05:18:20

Channel: 165



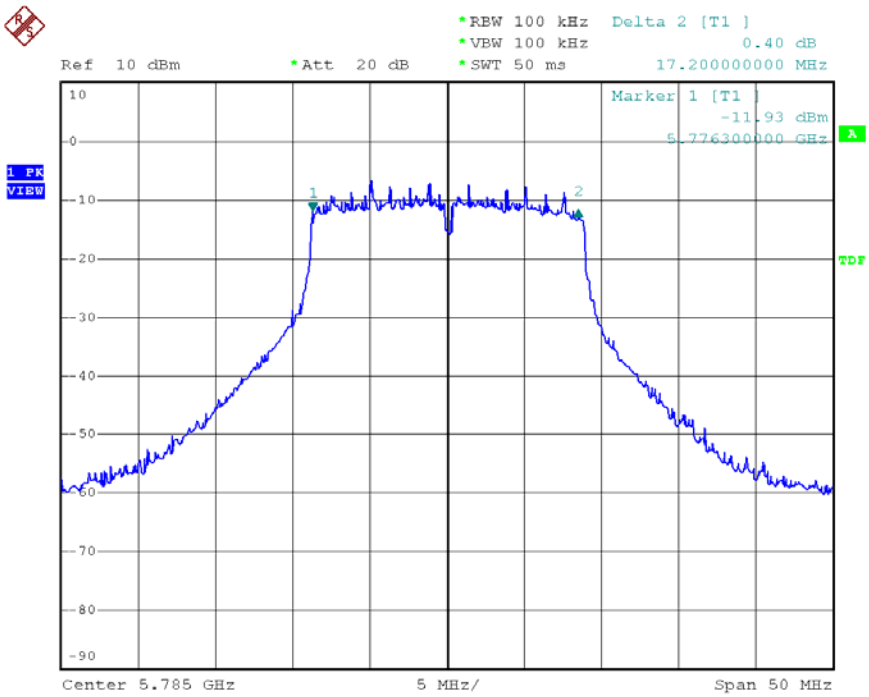
Date: 21.DEC.2007 05:21:29

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 149



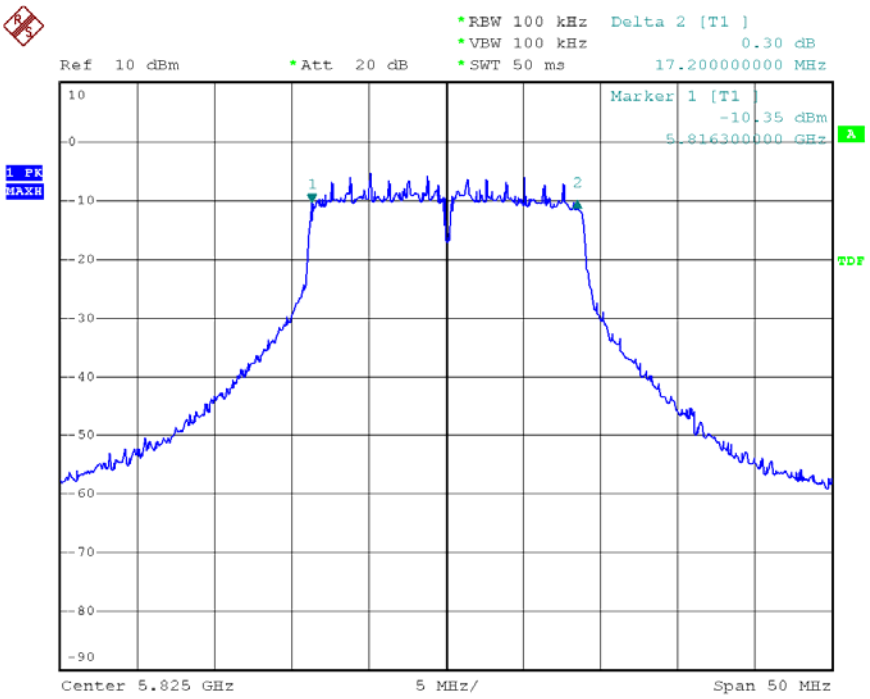
Date: 21.DEC.2007 05:16:51

Channel:157



Date: 21.DEC.2007 05:19:33

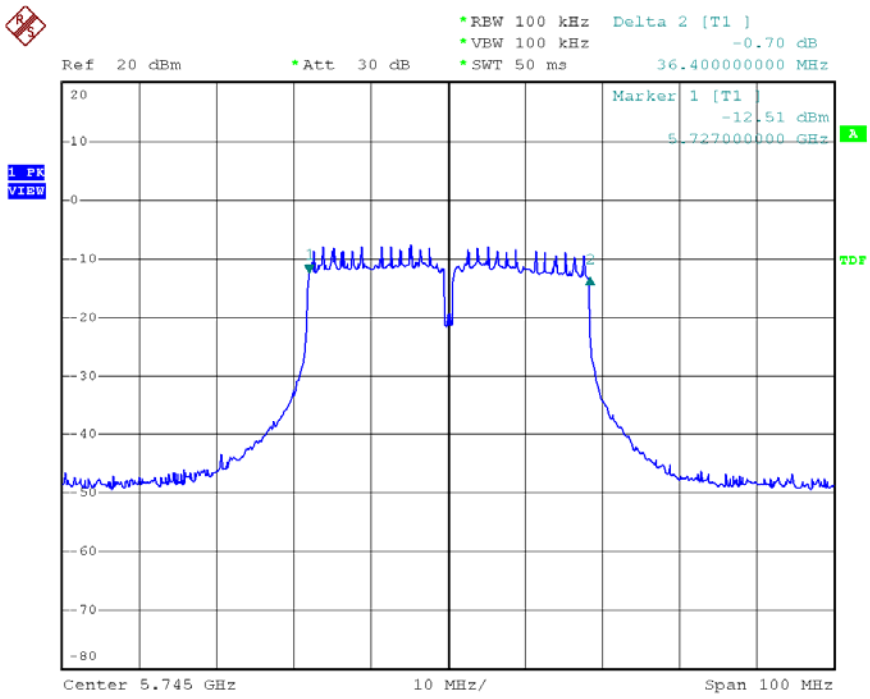
Channel: 165



Date: 21.DEC.2007 05:20:42

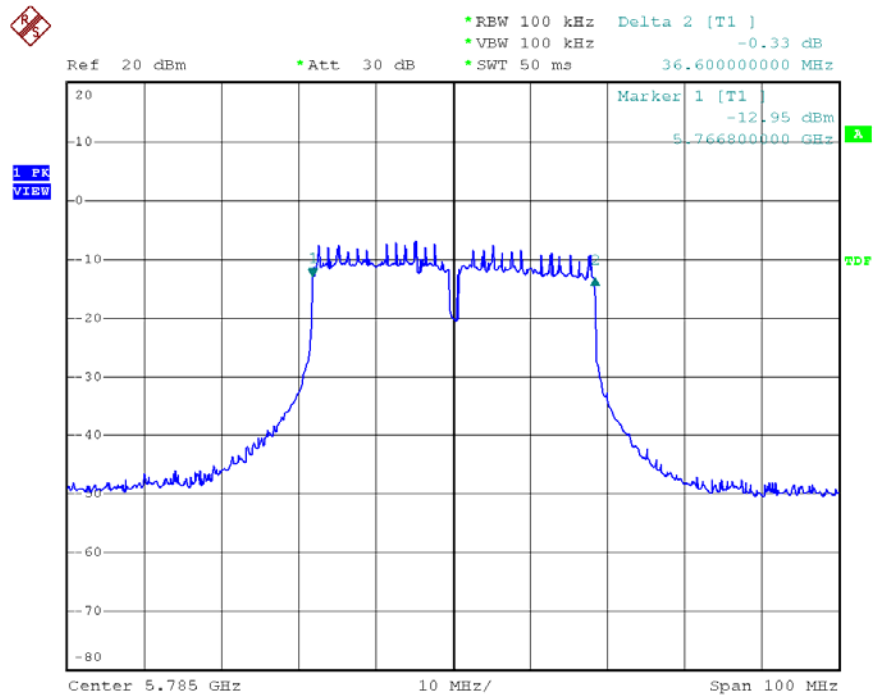
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0

Channel: 151



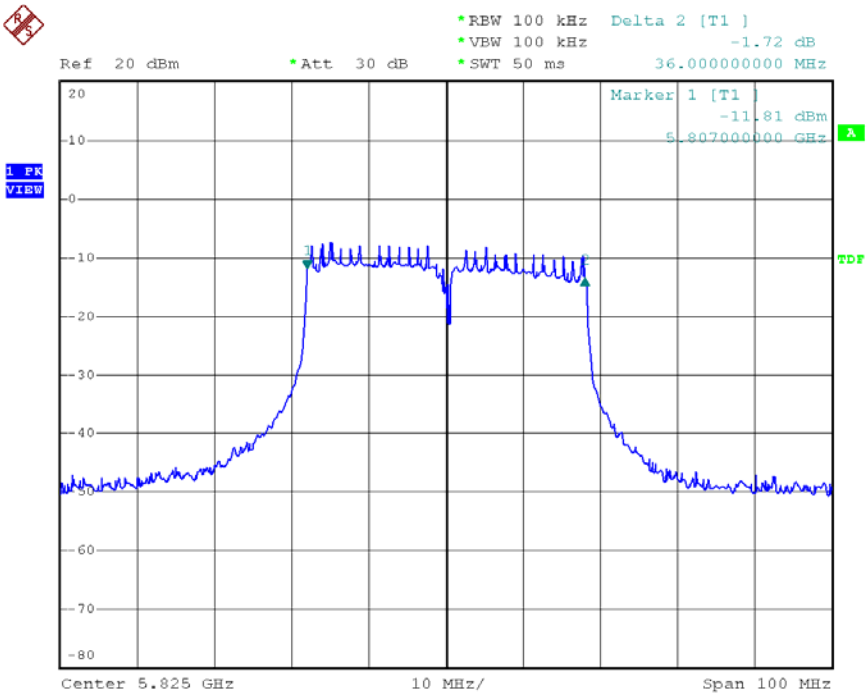
Date: 21.DEC.2007 04:26:34

Channel:155



Date: 21.DEC.2007 04:29:44

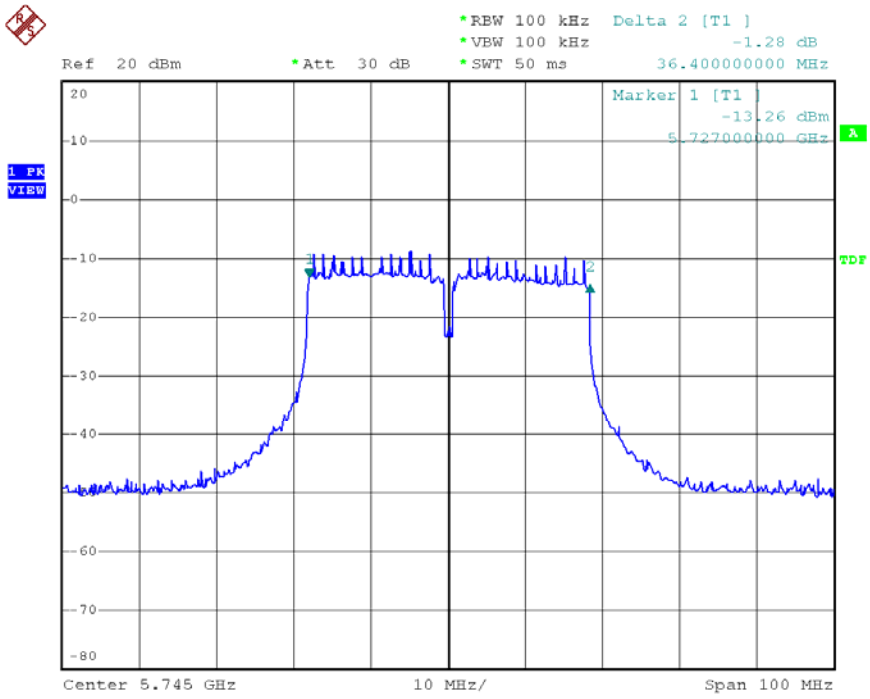
Channel: 159



Date: 21.DEC.2007 04:30:33

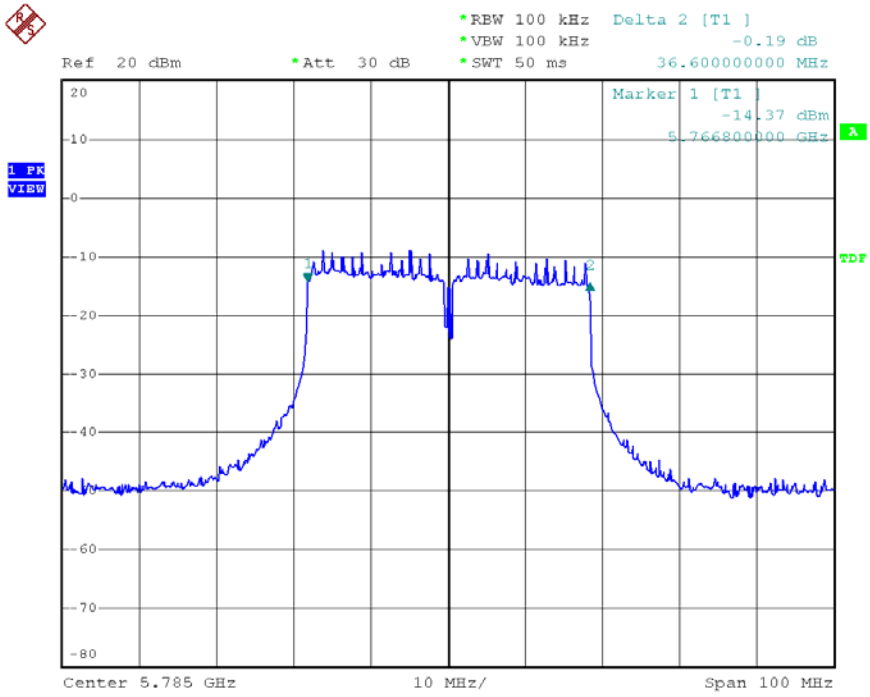
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1

Channel: 151



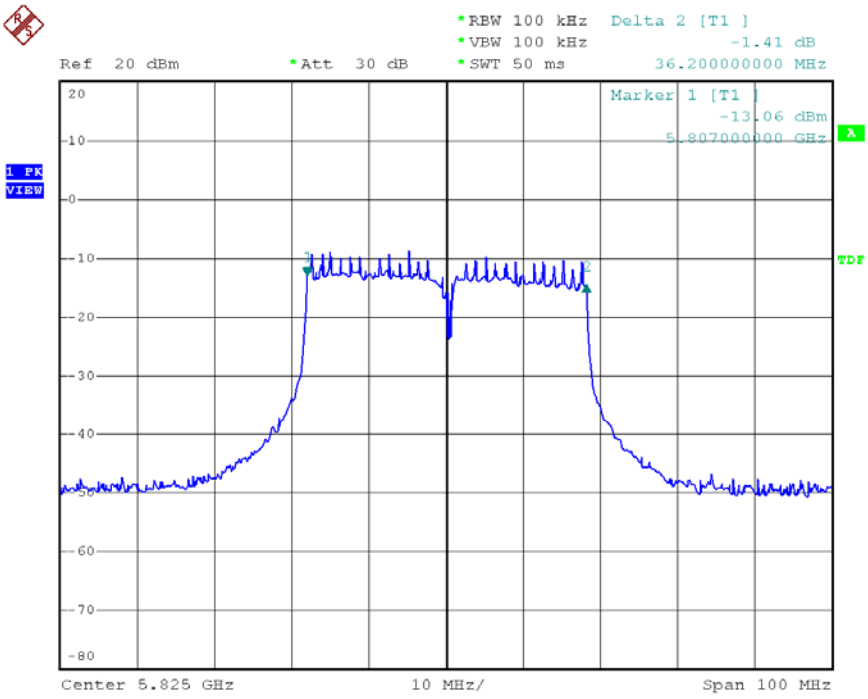
Date: 21.DEC.2007 04:27:30

Channel:155



Date: 21.DEC.2007 04:28:47

Channel: 159



Date: 21.DEC.2007 04:31:28

13. Maximum Peak Output Power (For 802.11a device)

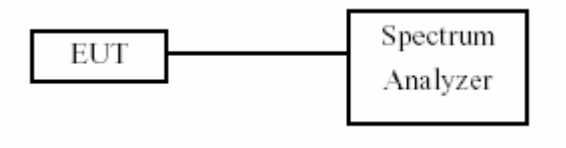
13.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

13.2 Test Procedures

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

13.3 Test Setup Layout



13.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

13.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11a (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
149	5745	24.46	279.30
157	5785	24.16	260.60
165	5825	24.51	282.50

(2) Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

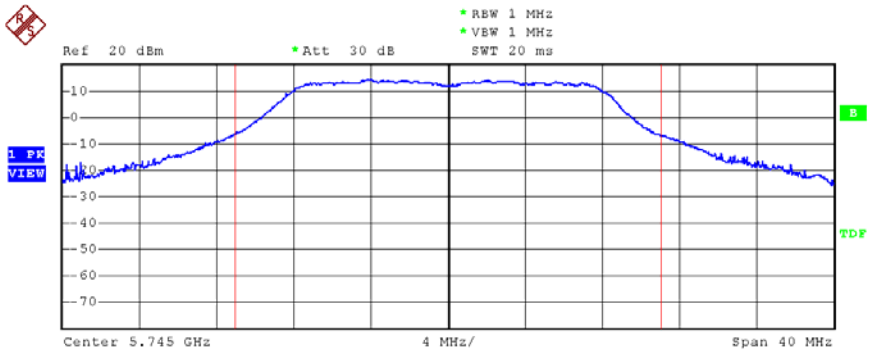
Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
		TX0	TX1	Total	Total
149	5745	24.75	24.31	27.55	568.31
157	5785	24.70	24.00	27.37	546.31
165	5825	24.62	24.24	27.44	555.19

(3) Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
		TX0	TX1	Total	Total
151	5755	24.53	25.06	27.81	604.42
155	5775	23.96	25.11	27.58	573.23
159	5795	23.75	24.61	27.21	526.21

Modulation Standard: 802.11a (6Mbps)

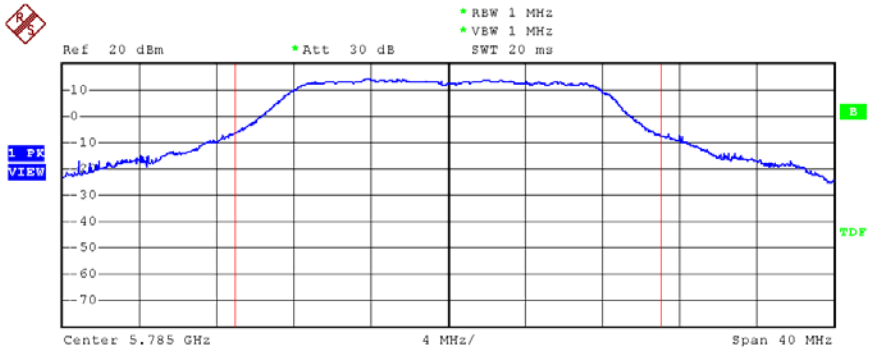
Channel: 149



Tx Channel			
Bandwidth	22 MHz	Power	24.46 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 17:35:50

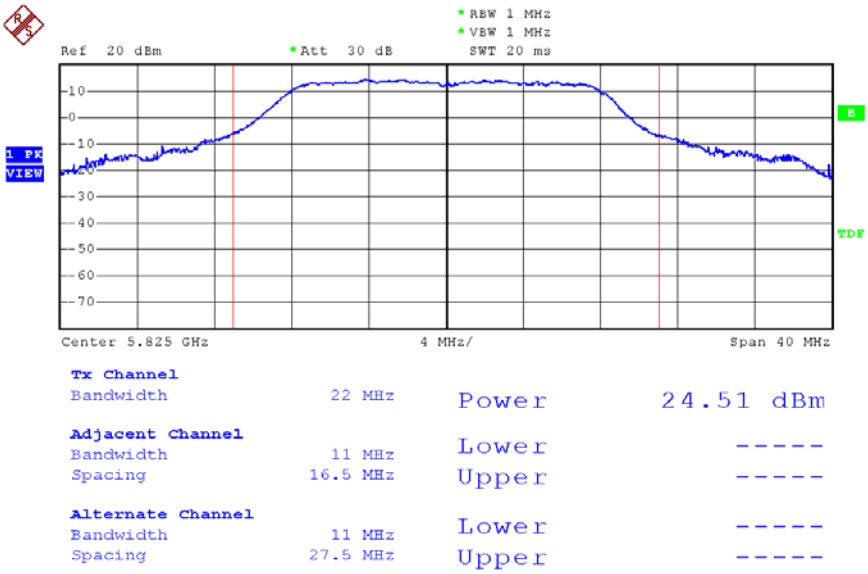
Channel:157



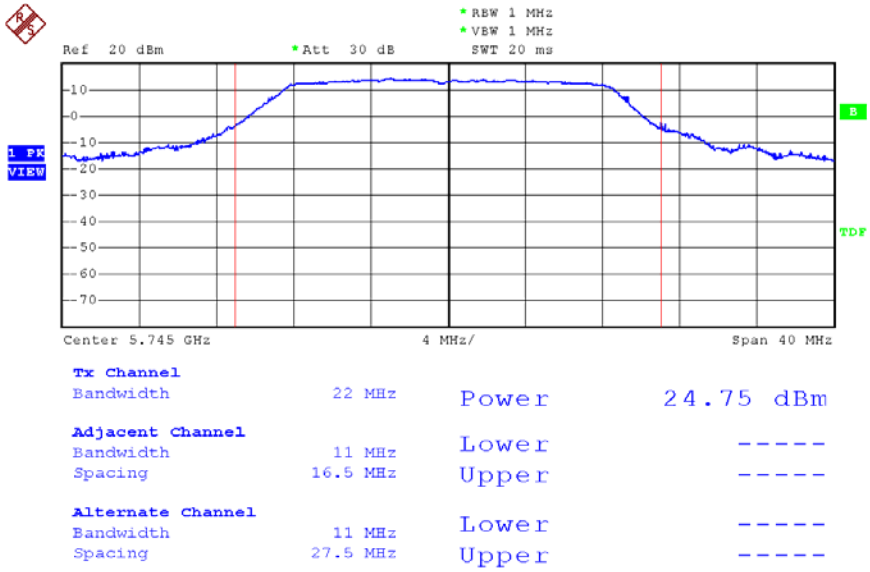
Tx Channel			
Bandwidth	22 MHz	Power	24.16 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 17:36:50

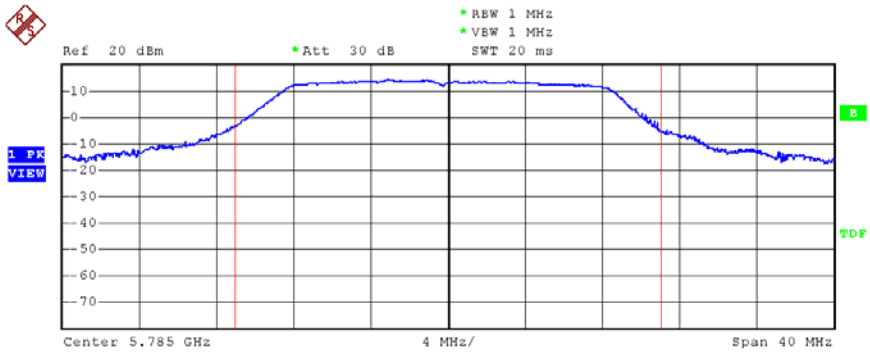
Channel: 165



Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 149



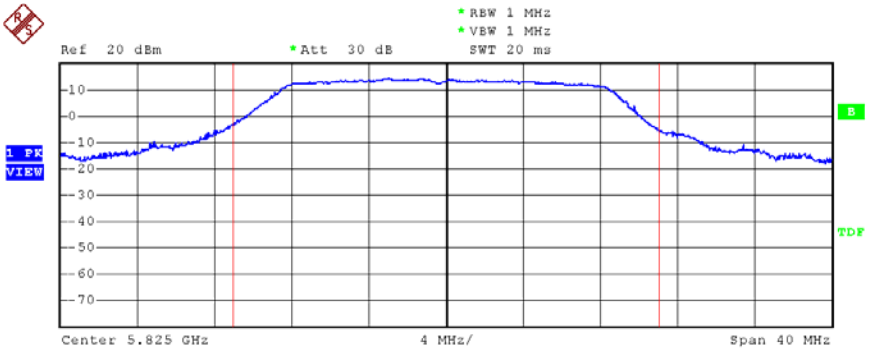
Channel:157



Tx Channel			
Bandwidth	22 MHz	Power	24.70 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 17:49:27

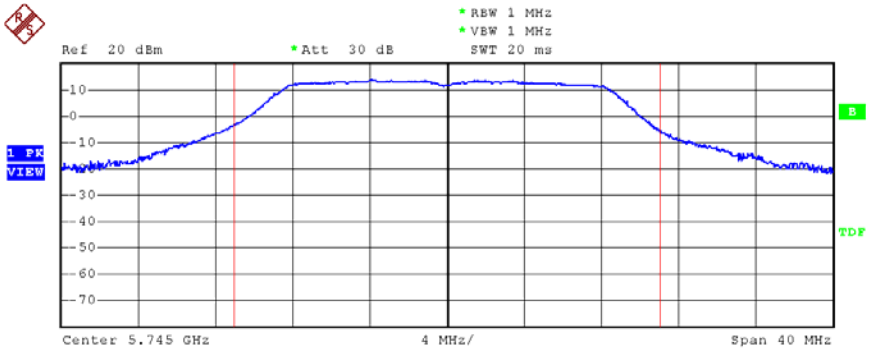
Channel: 165



Tx Channel			
Bandwidth	22 MHz	Power	24.62 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 17:43:28

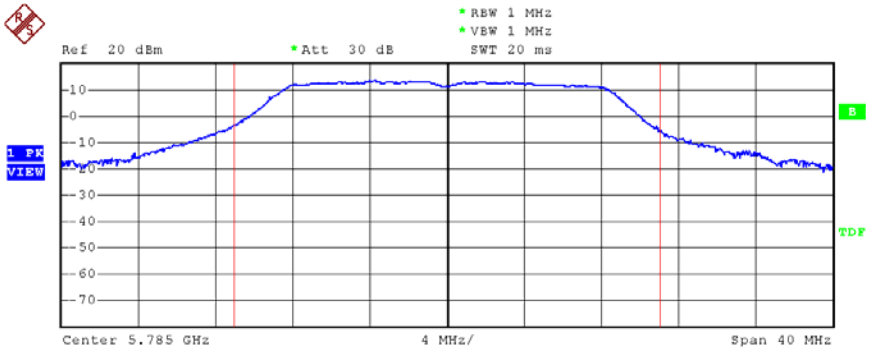
Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 149



Tx Channel			
Bandwidth	22 MHz	Power	24.31 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 17:52:40

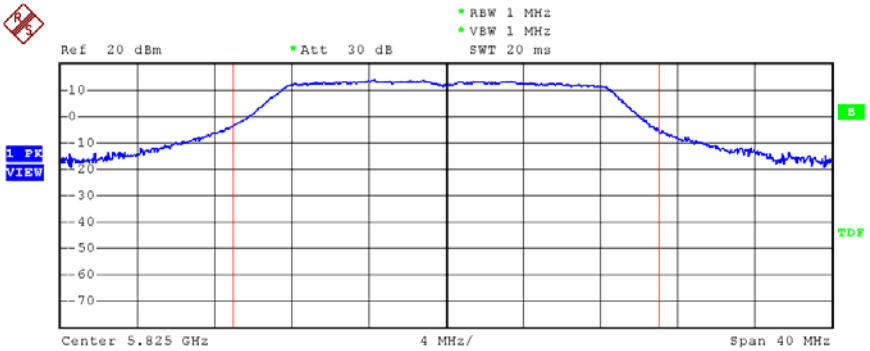
Channel:157



Tx Channel			
Bandwidth	22 MHz	Power	24.00 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	16.5 MHz	Upper	-----
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

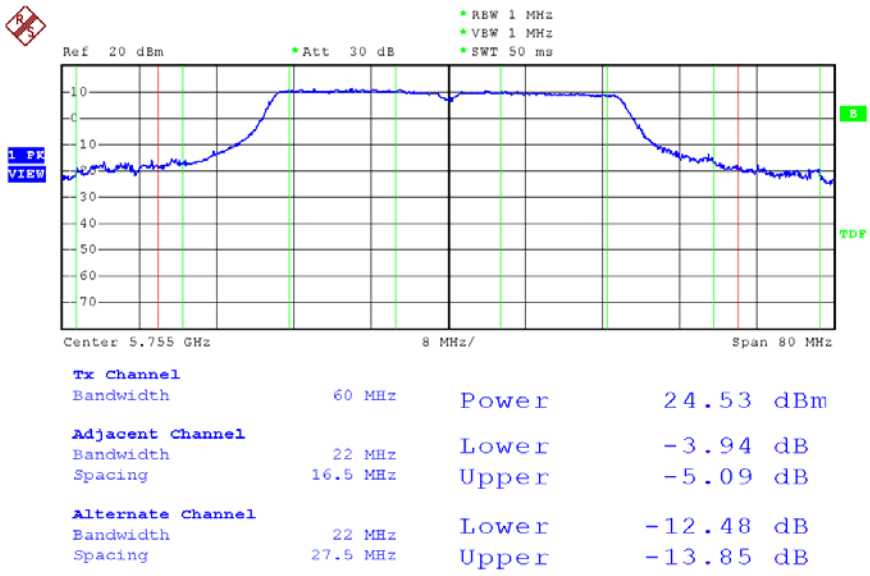
Date: 26.DEC.2007 17:46:52

Channel: 165

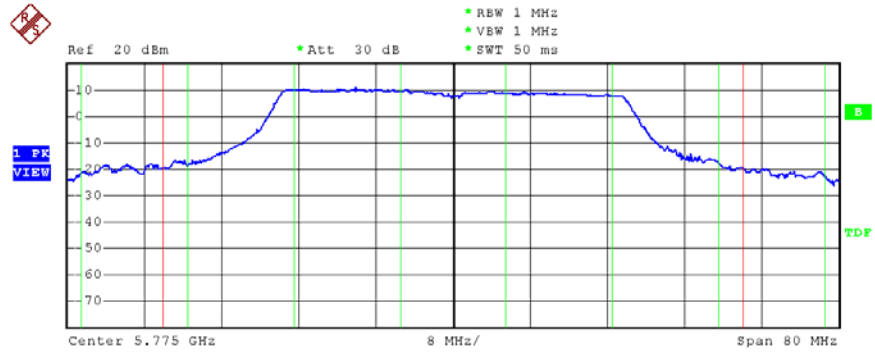


Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0

Channel: 151



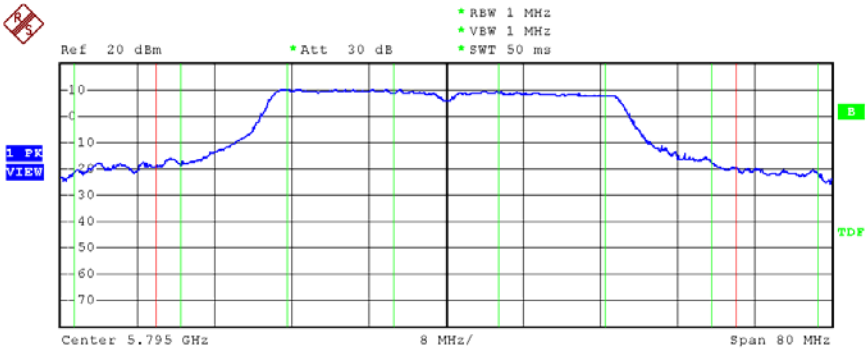
Channel:155



Tx Channel			
Bandwidth	60 MHz	Power	23.96 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-3.85 dB
Spacing	16.5 MHz	Upper	-5.25 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.34 dB
Spacing	27.5 MHz	Upper	-13.96 dB

Date: 26.DEC.2007 18:04:04

Channel: 159

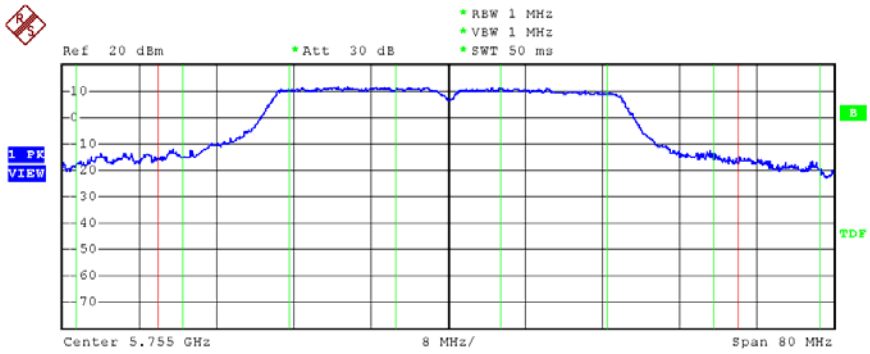


Tx Channel			
Bandwidth	60 MHz	Power	23.75 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-3.83 dB
Spacing	16.5 MHz	Upper	-5.20 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.22 dB
Spacing	27.5 MHz	Upper	-13.86 dB

Date: 26.DEC.2007 18:09:50

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1

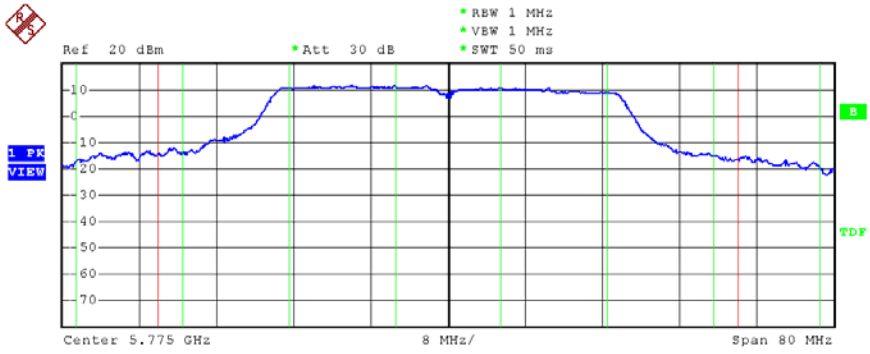
Channel: 151



Tx Channel			
Bandwidth	60 MHz	Power	25.06 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.13 dB
Spacing	16.5 MHz	Upper	-5.03 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.91 dB
Spacing	27.5 MHz	Upper	-13.95 dB

Date: 26.DEC.2007 18:01:26

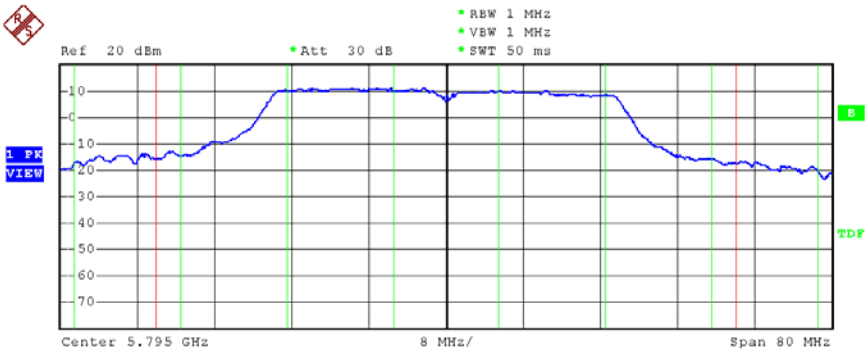
Channel:155



Tx Channel			
Bandwidth	60 MHz	Power	25.11 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-3.97 dB
Spacing	16.5 MHz	Upper	-5.25 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.56 dB
Spacing	27.5 MHz	Upper	-14.09 dB

Date: 26.DEC.2007 18:07:02

Channel: 159



Tx Channel			
Bandwidth	60 MHz	Power	24.61 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-3.83 dB
Spacing	16.5 MHz	Upper	-5.35 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.37 dB
Spacing	27.5 MHz	Upper	-14.29 dB

Date: 26.DEC.2007 18:08:58

14. Band Edges Measurement (For 802.11a device)

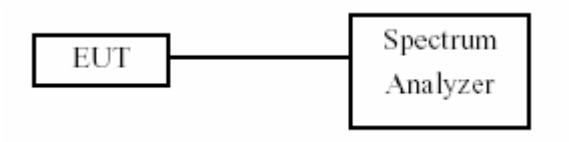
14.1 Test Limit

Below –20dB of the highest emission level of operating band
(in 100kHz Resolution Bandwidth).

14.2 Test Procedure：

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

14.3 Test Setup Layout



14.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

14.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11a (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
149	5745	7632.00	-44.94
165	5825	7768.00	-46.18

(2) Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

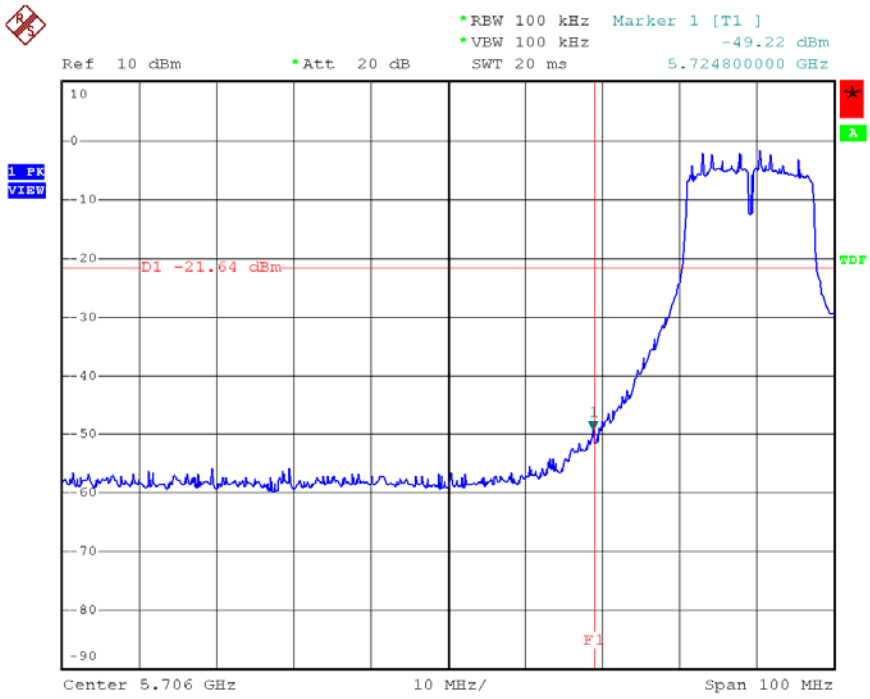
Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)		Maximum Value (dBm)	
		TX0	TX1	TX0	TX1
149	5745	4000.00	4000.00	-33.92	-34.82
165	5825	7768.00	4000.00	-46.38	-45.99

(3) Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

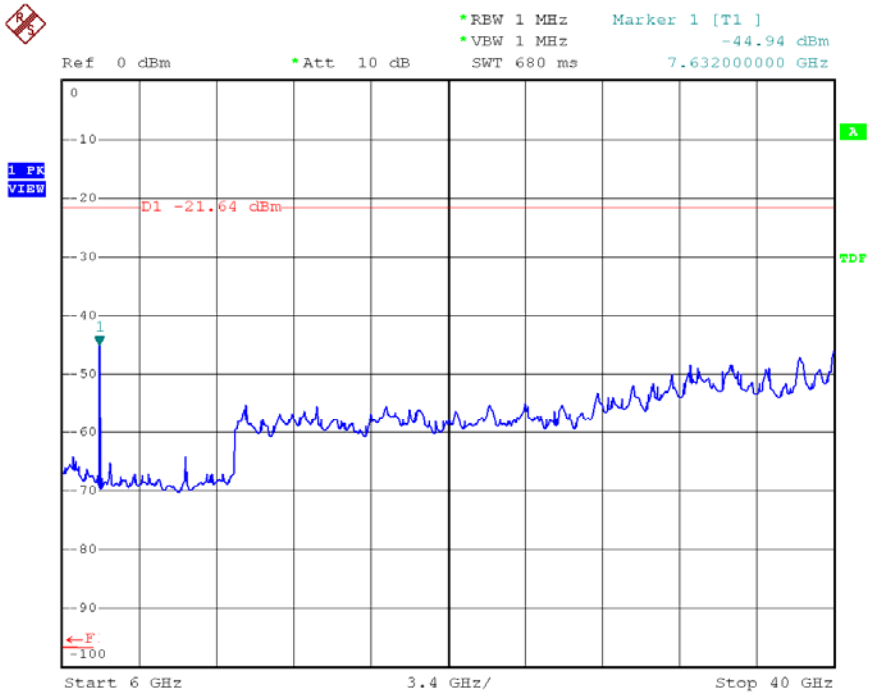
Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)		Maximum Value (dBm)	
		TX0	TX1	TX0	TX1
151	5755	5723.80	5722.60	-31.87	-26.45
159	5795	5825.40	5825.80	-30.15	-28.84

Modulation Standard: 802.11a (6Mbps)

Channel: 149

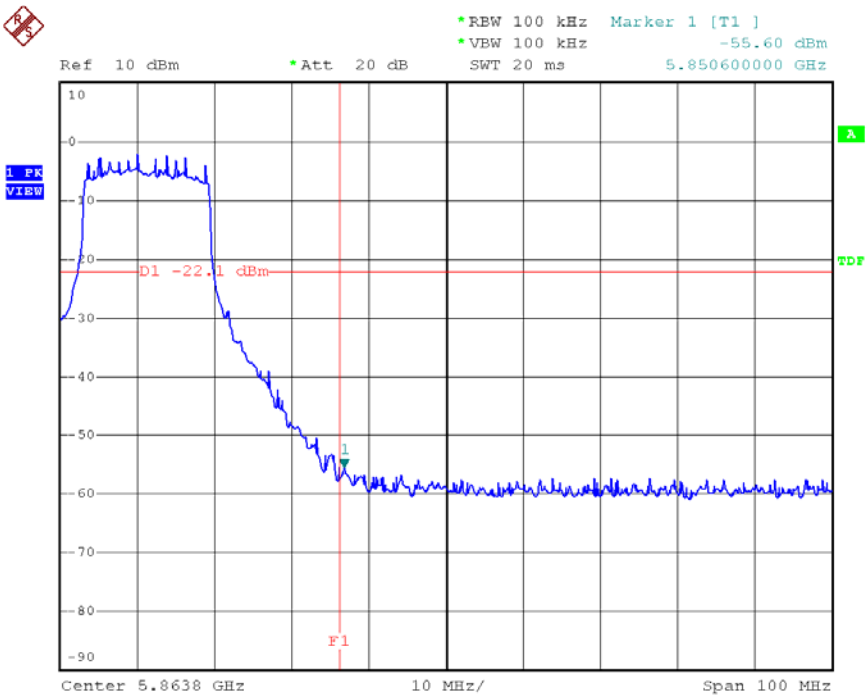


Date: 21.DEC.2007 05:56:32

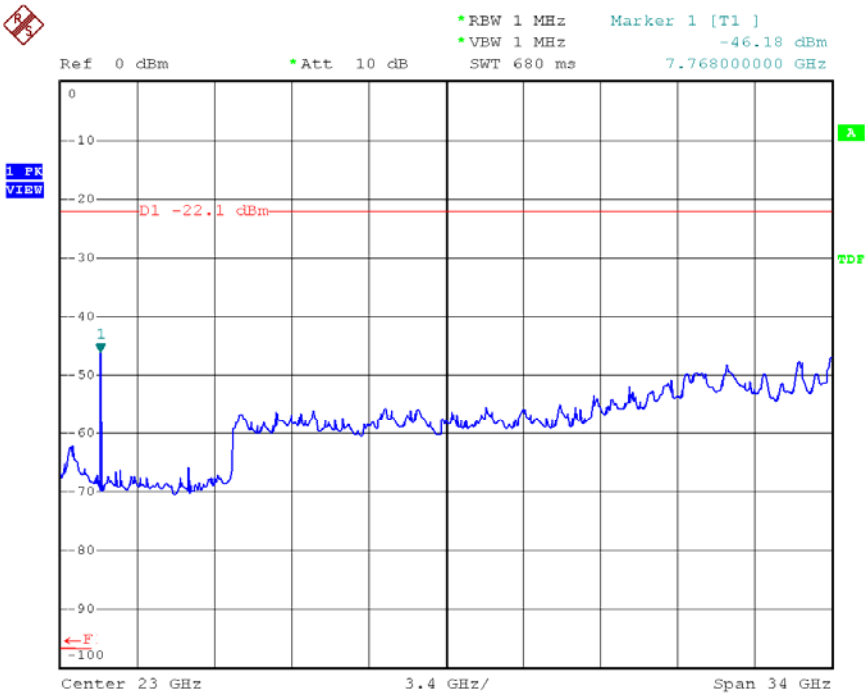


Date: 21.DEC.2007 05:57:18

Channel: 165

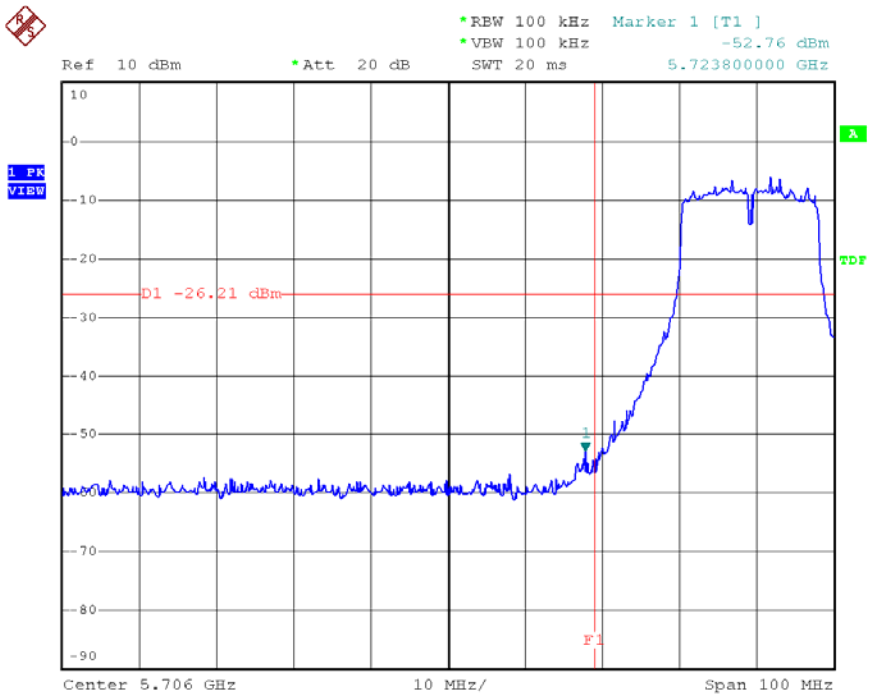


Date: 21.DEC.2007 05:58:54

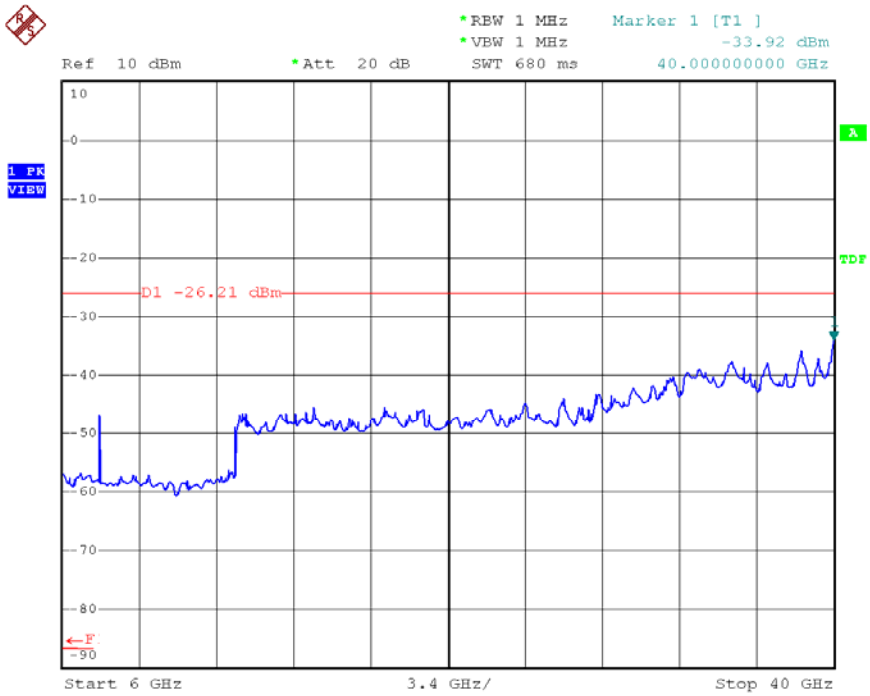


Date: 21.DEC.2007 05:59:30

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 149

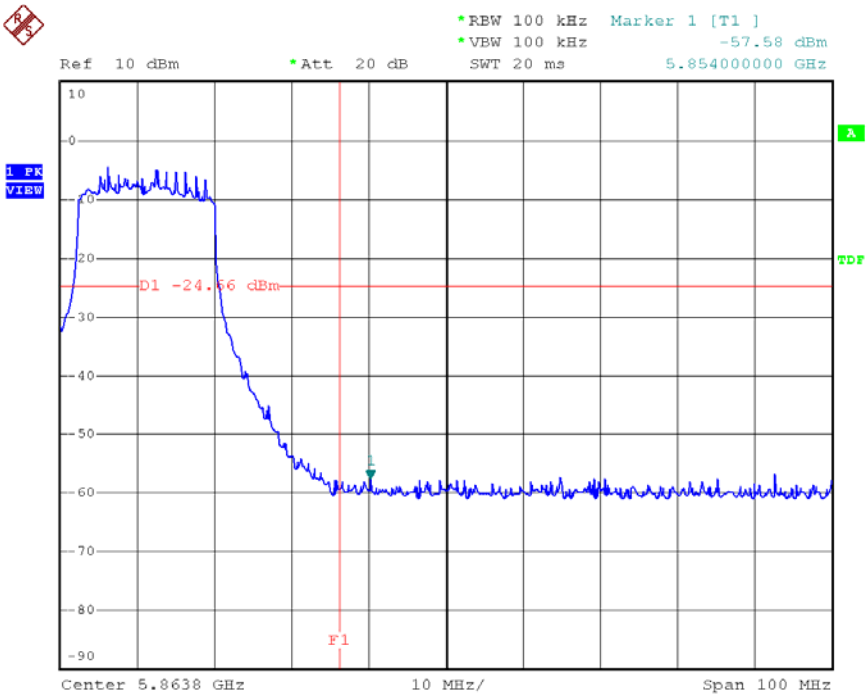


Date: 21.DEC.2007 05:33:09

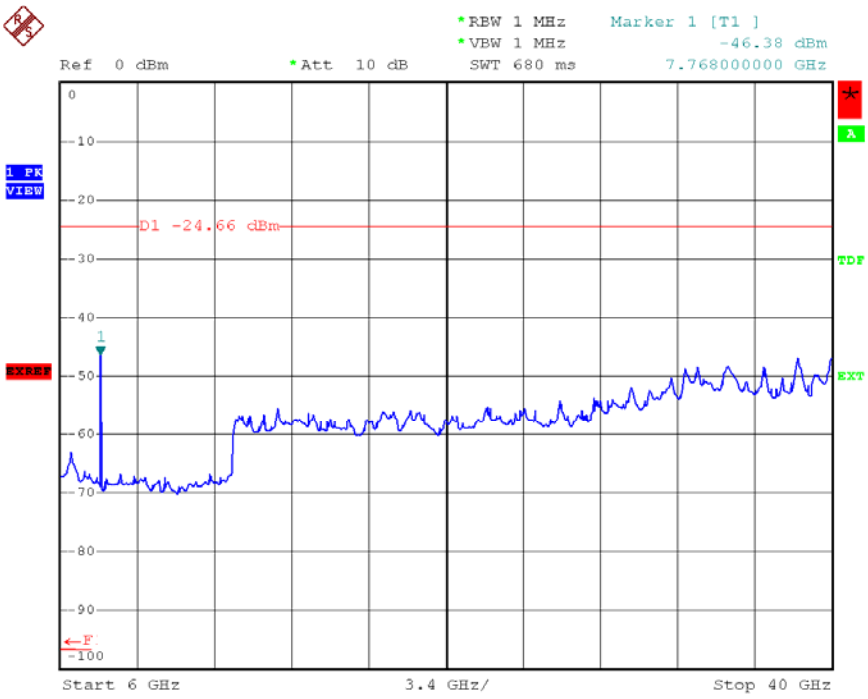


Date: 21.DEC.2007 05:34:06

Channel: 165

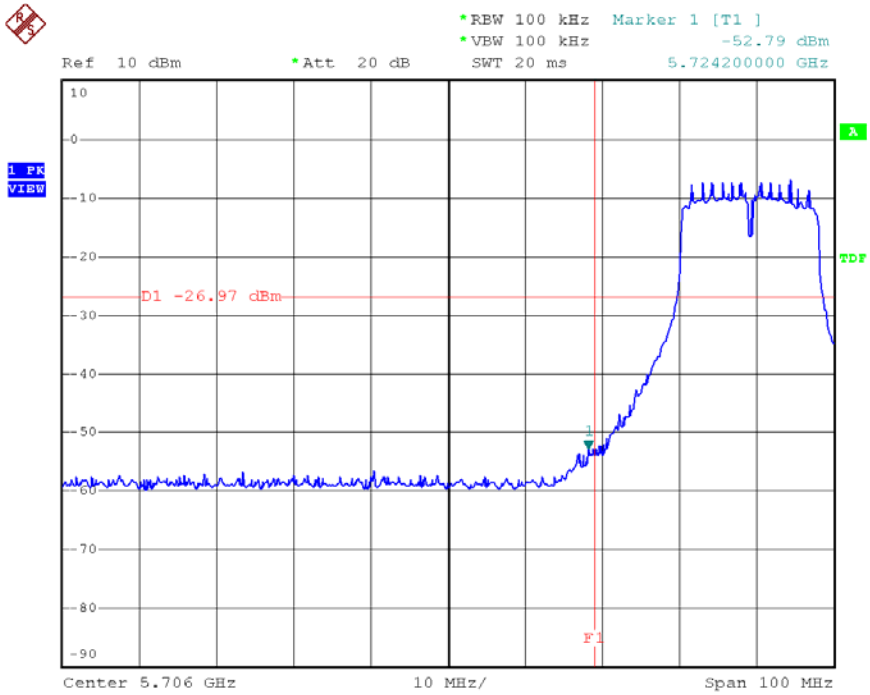


Date: 21.DEC.2007 05:35:38

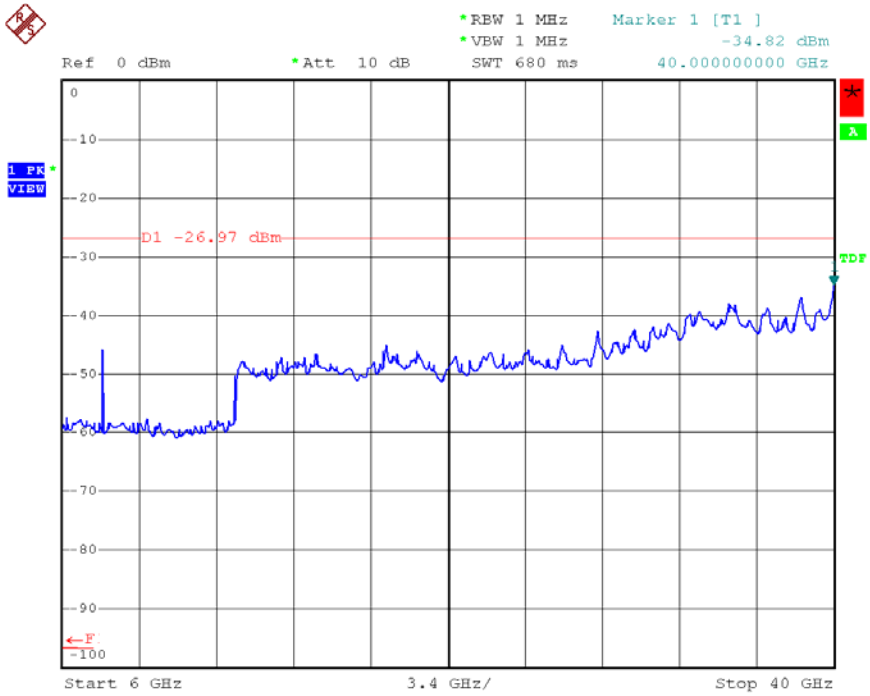


Date: 21.DEC.2007 05:36:36

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 149

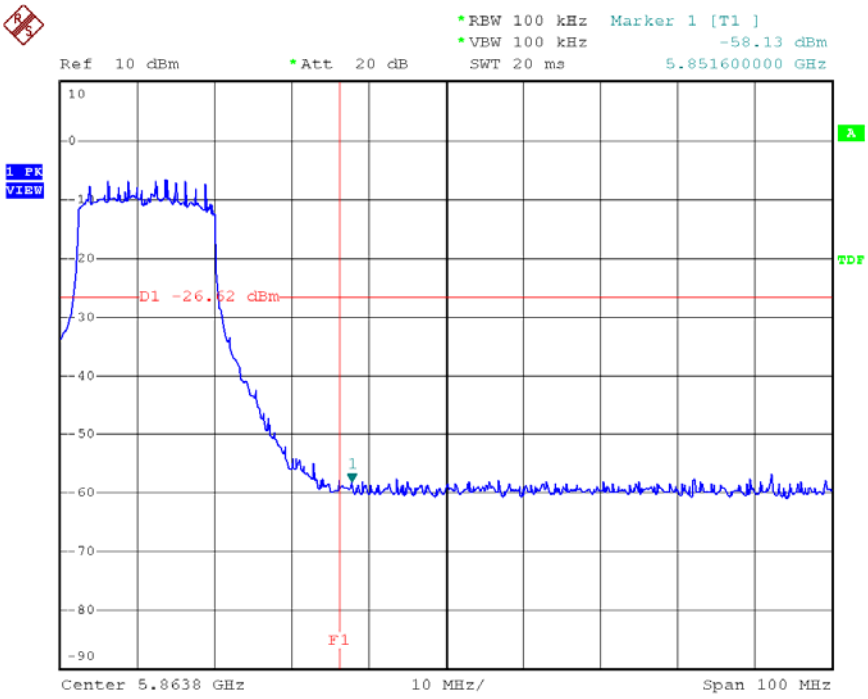


Date: 21.DEC.2007 05:31:23

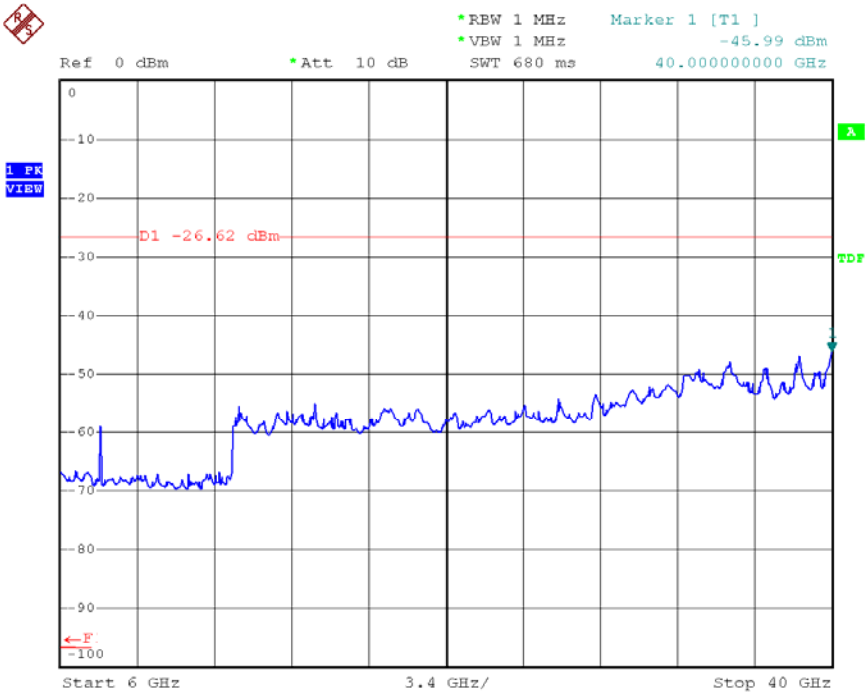


Date: 21.DEC.2007 05:45:20

Channel: 165



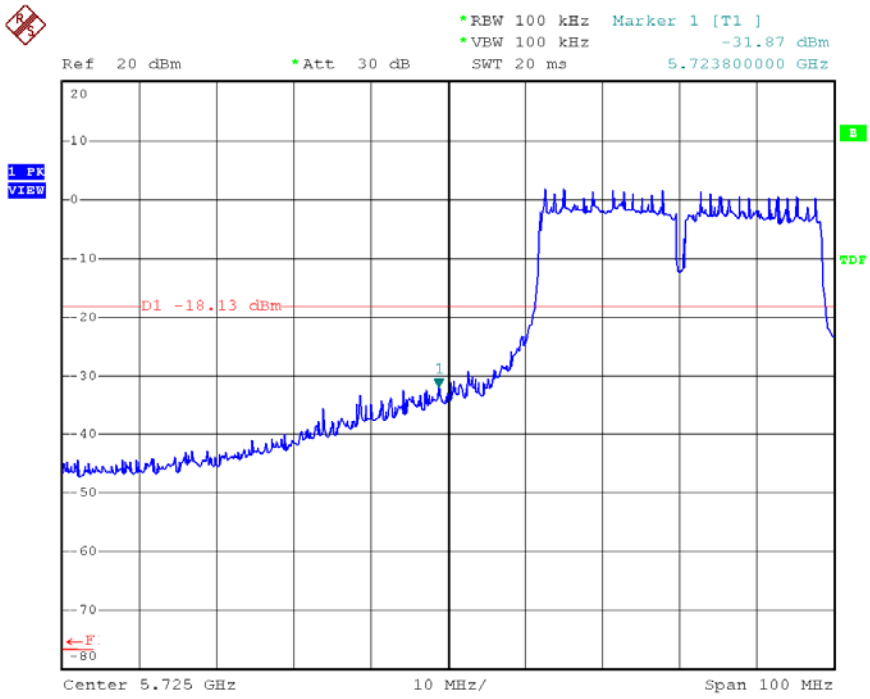
Date: 21.DEC.2007 05:37:51

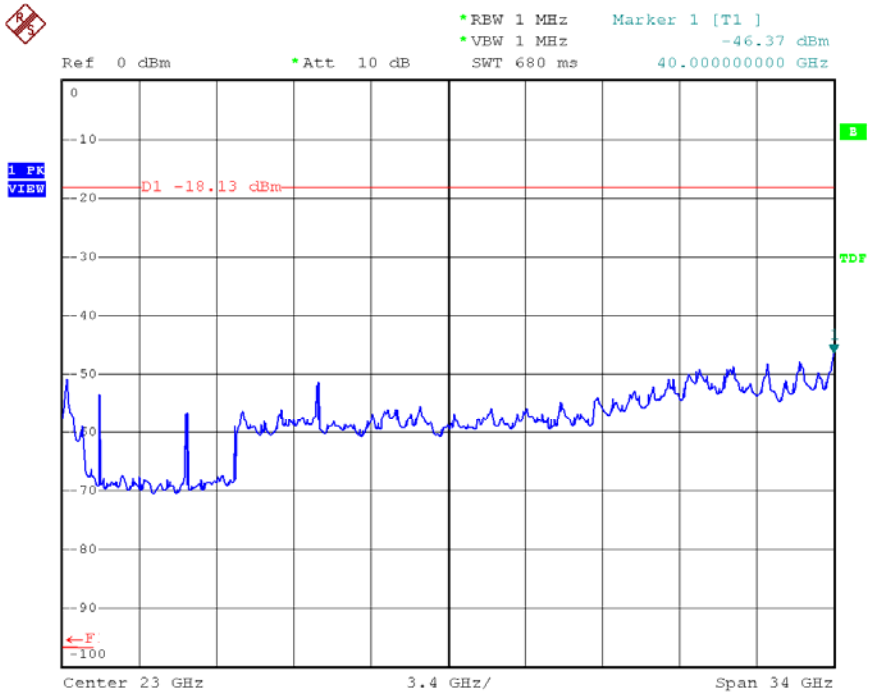


Date: 21.DEC.2007 05:38:28

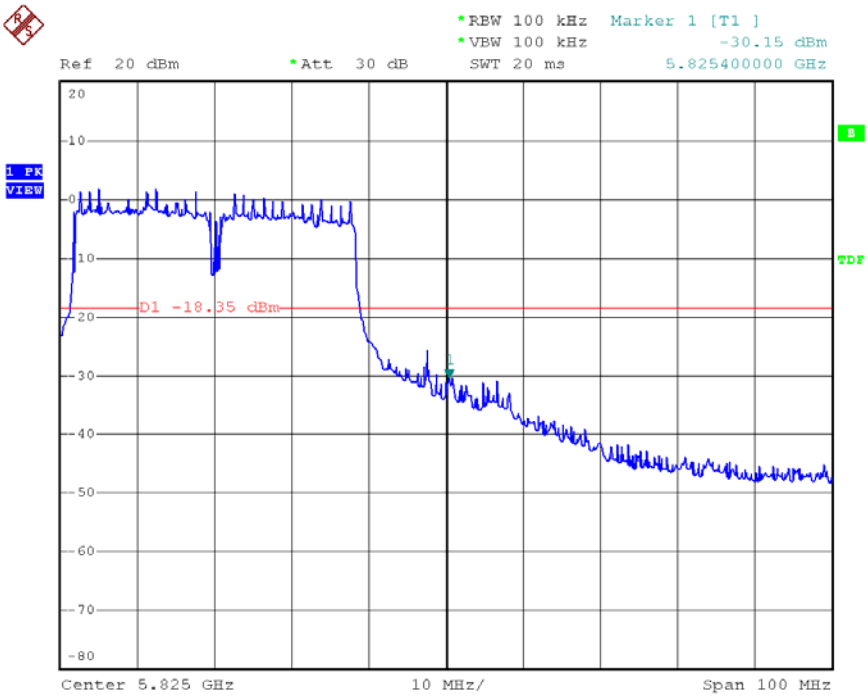
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0

Channel: 151

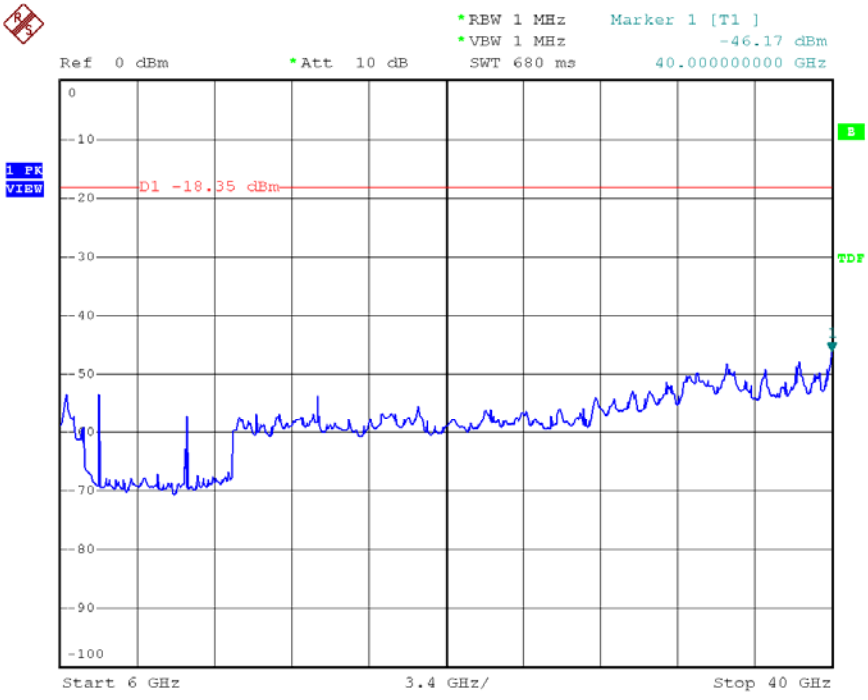




Channel: 159



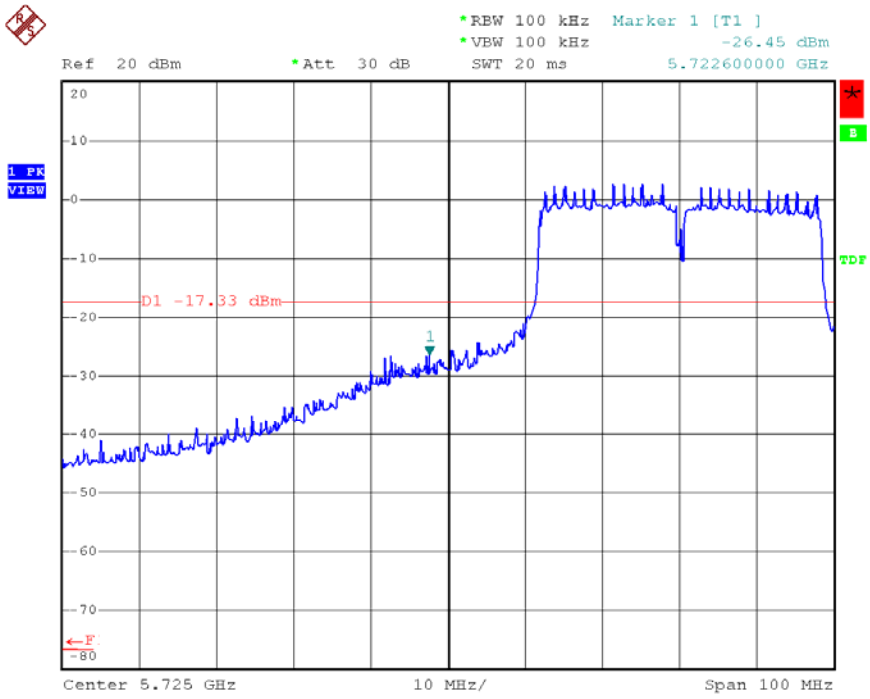
Date: 2.JAN.2008 19:32:19



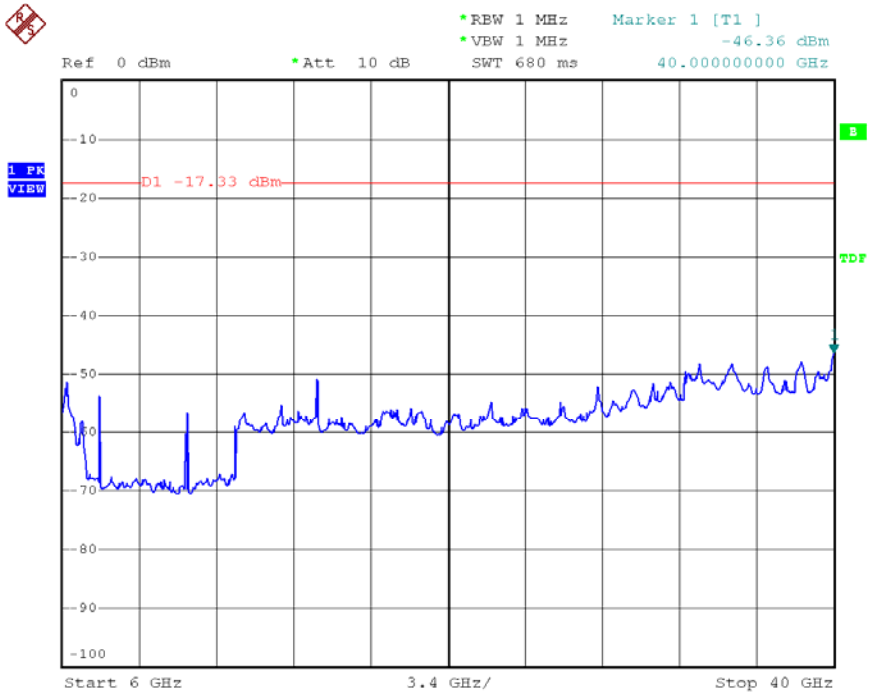
Date: 2.JAN.2008 19:32:52

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1

Channel: 151

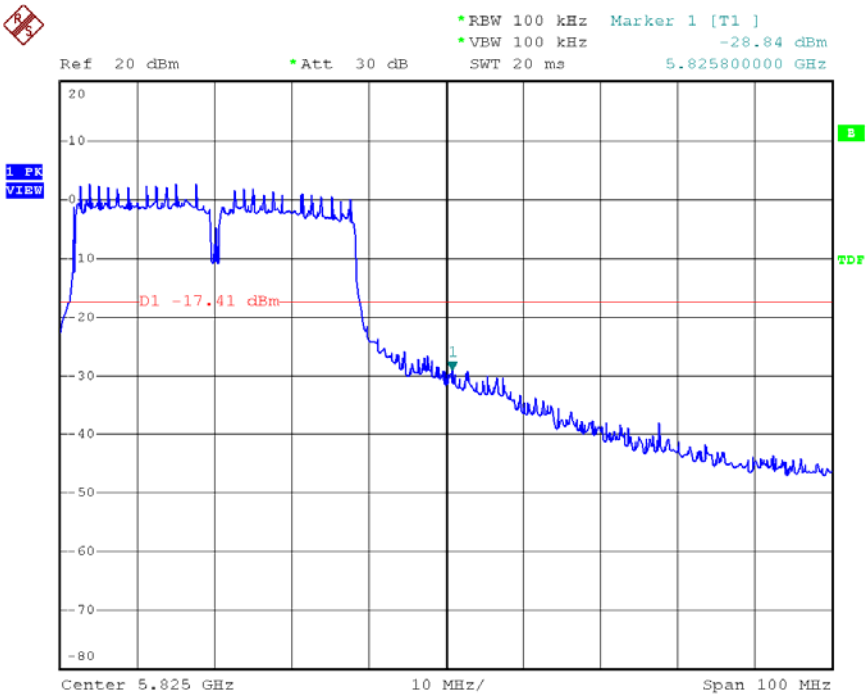


Date: 2.JAN.2008 19:24:49

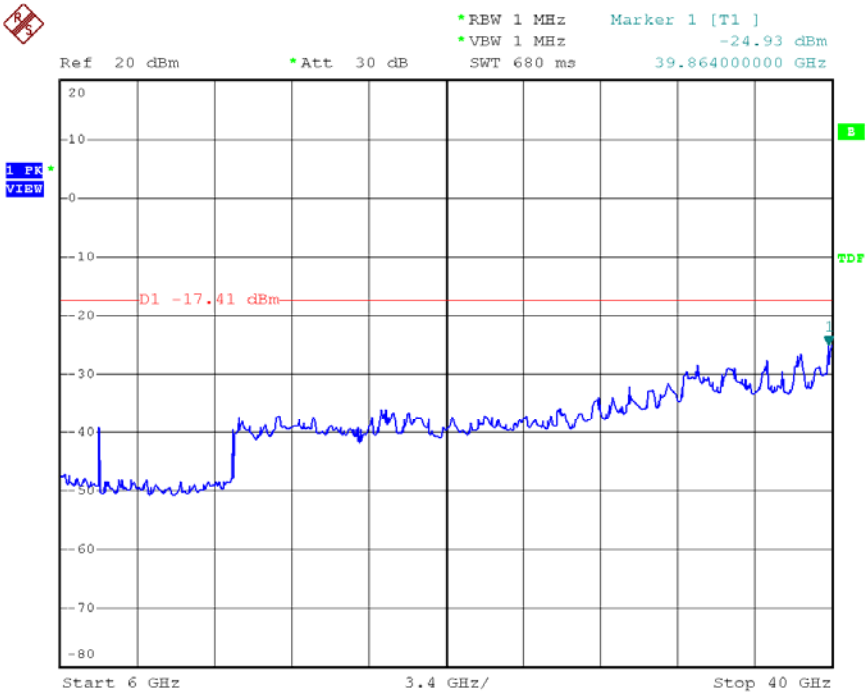


Date: 2.JAN.2008 19:34:31

Channel: 159



Date: 2.JAN.2008 19:29:12



Date: 2.JAN.2008 19:29:46

15. Power Spectral Density (For 802.11a device)

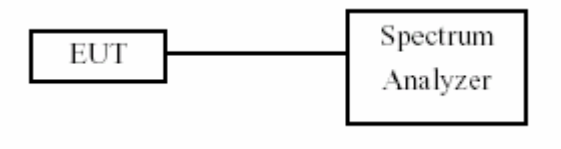
15.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

15.2 Test Procedures

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

15.3 Test Setup Layout：



15.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

15.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11a (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)
149	5745	-17.70
157	5785	-17.80
165	5825	-17.09

(2) Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

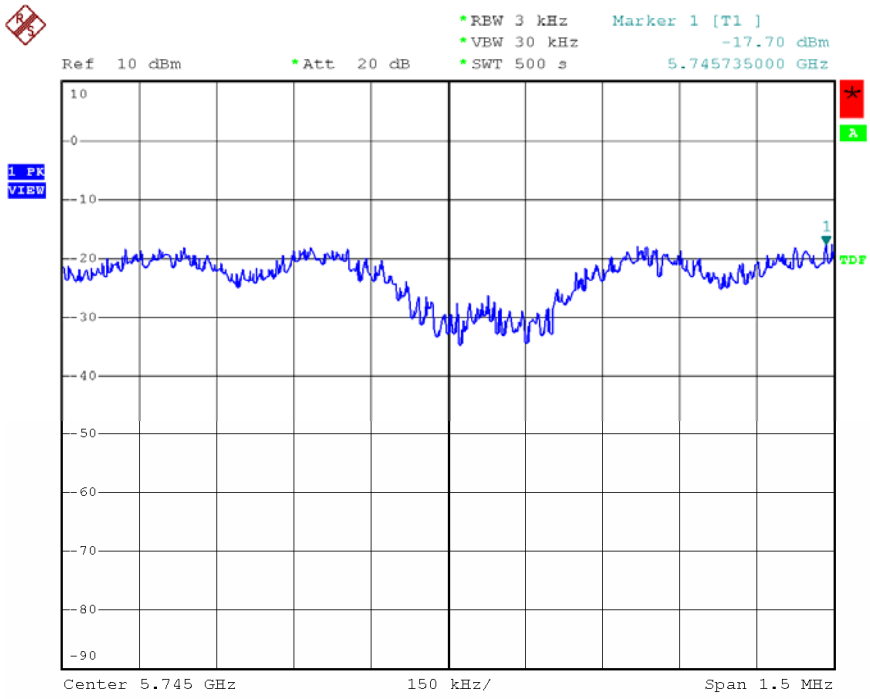
Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		TX0	TX1	Total
149	5745	-20.45	-20.51	-17.47
157	5785	-19.06	-18.26	-15.63
165	5825	-18.71	-21.68	-16.94

(3) Modulation Standard: IEEE 802.11a (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		TX0	TX1	Total
151	5755	-24.28	-26.27	-22.15
155	5775	-23.71	-26.75	-21.96
159	5795	-18.81	-18.21	-15.49

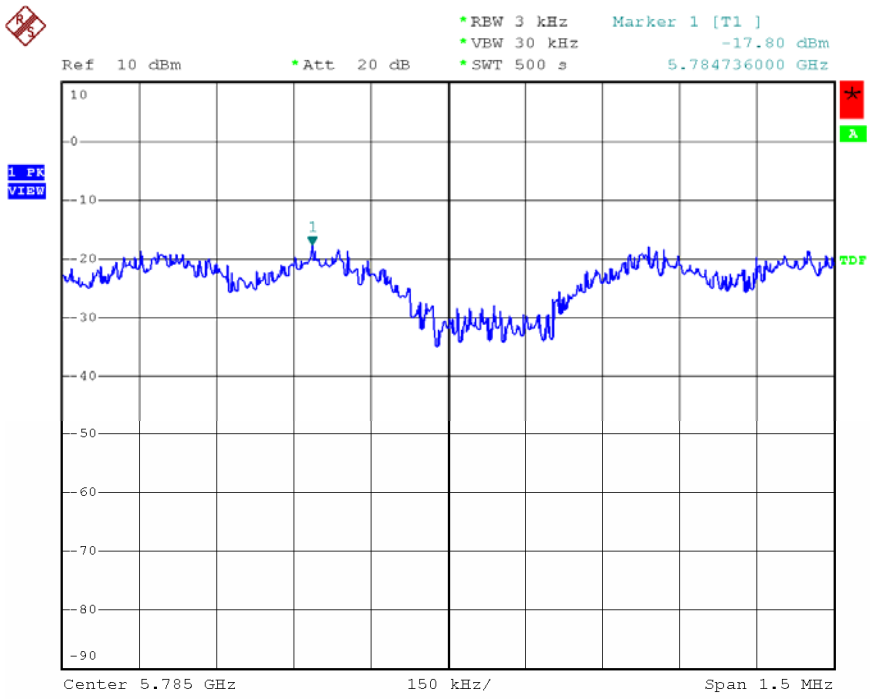
Modulation Standard: 802.11a (6Mbps)

Channel: 149



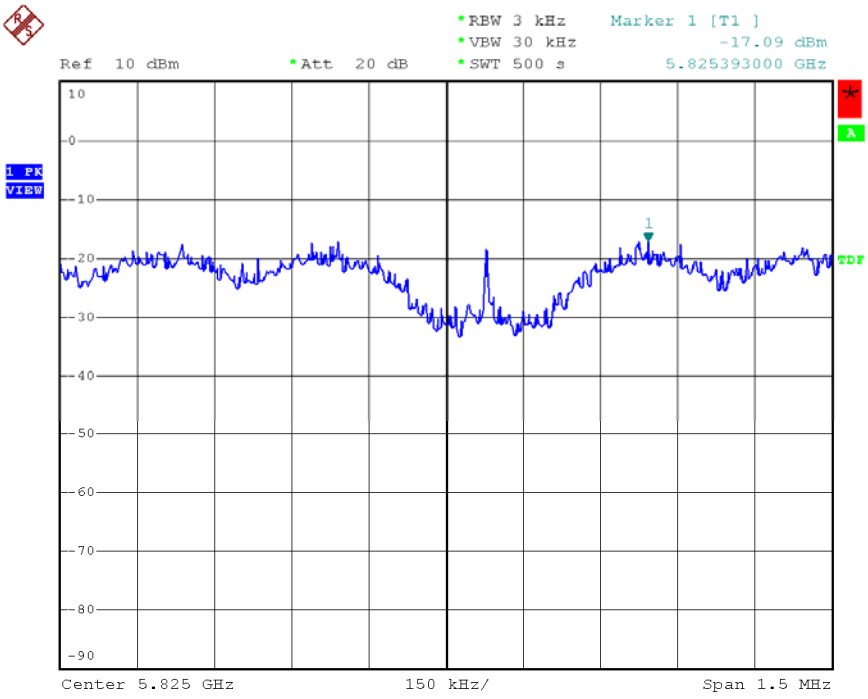
Date: 21.DEC.2007 05:55:13

Channel:157

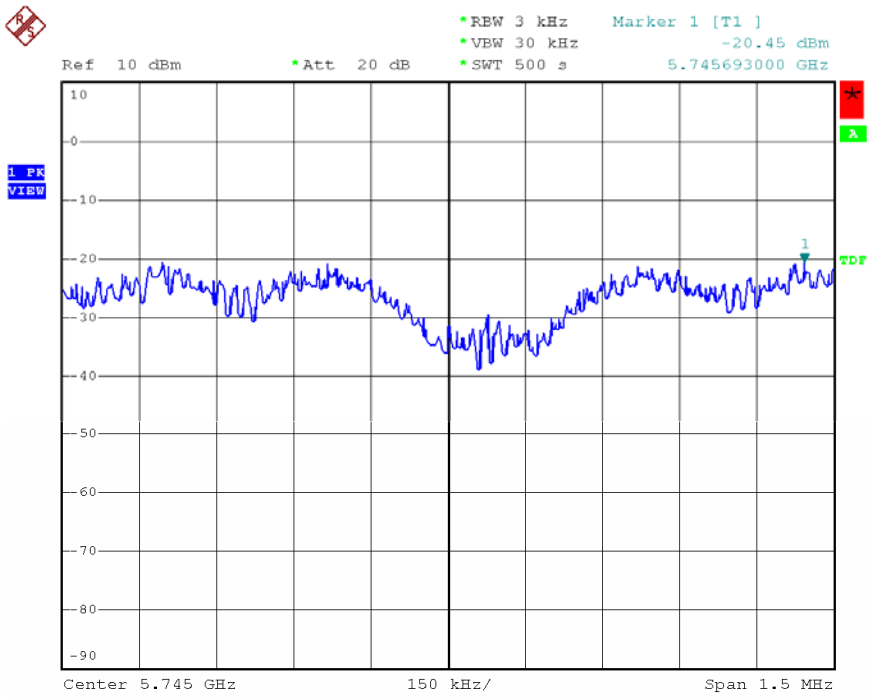


Date: 21.DEC.2007 05:54:29

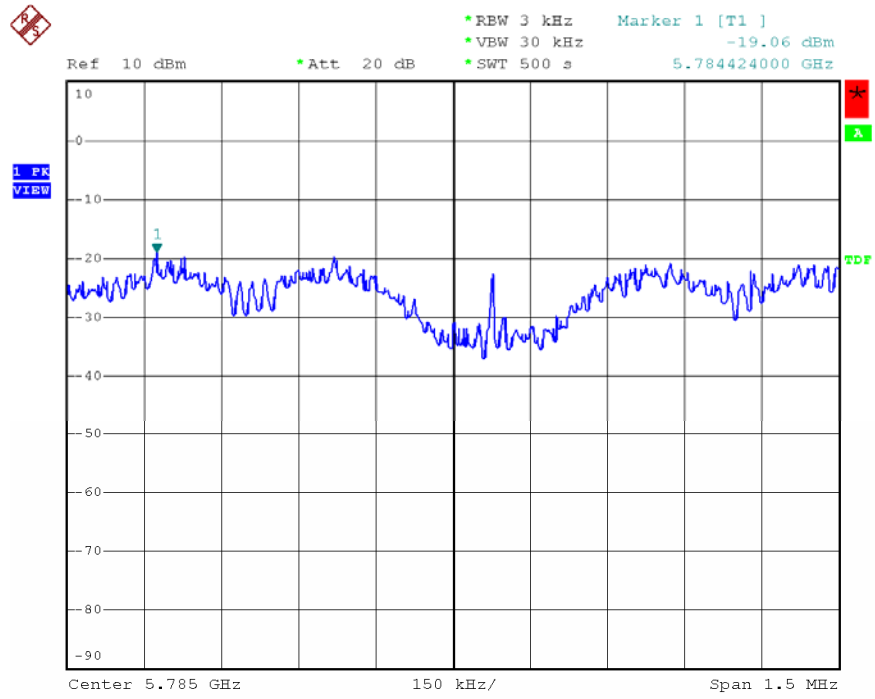
Channel: 165



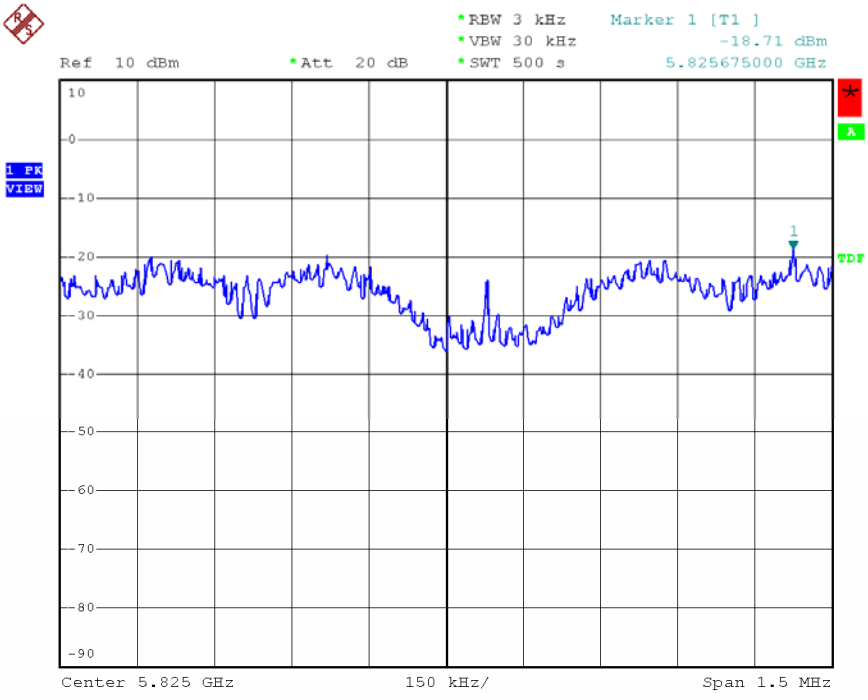
Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 149



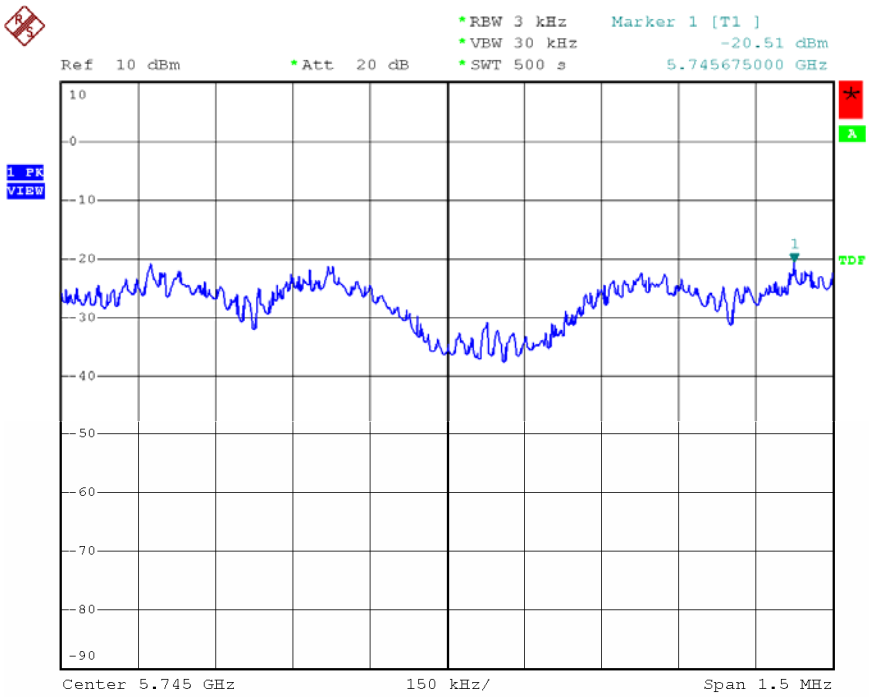
Channel:157



Channel: 165

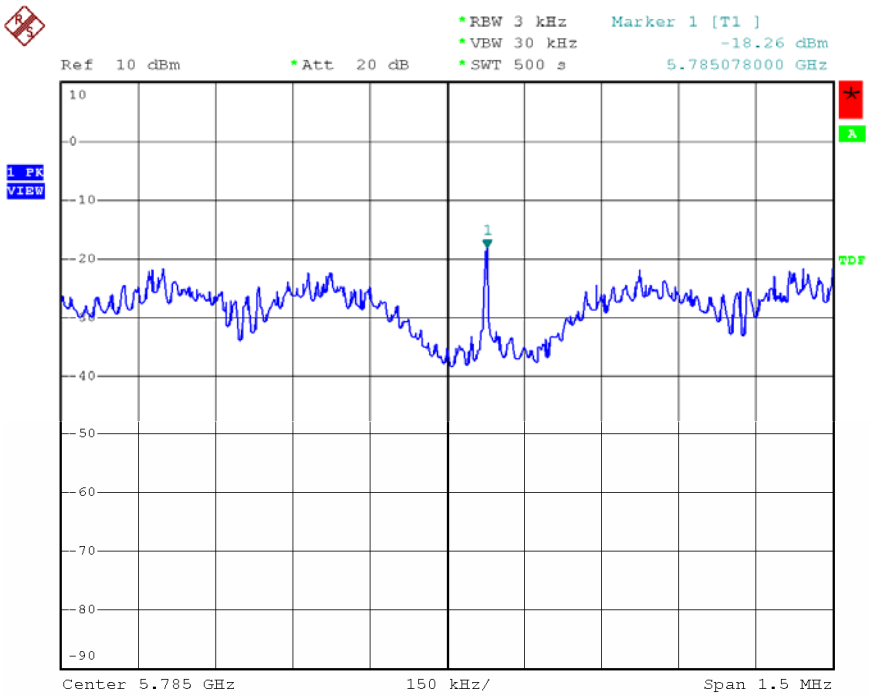


Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 149



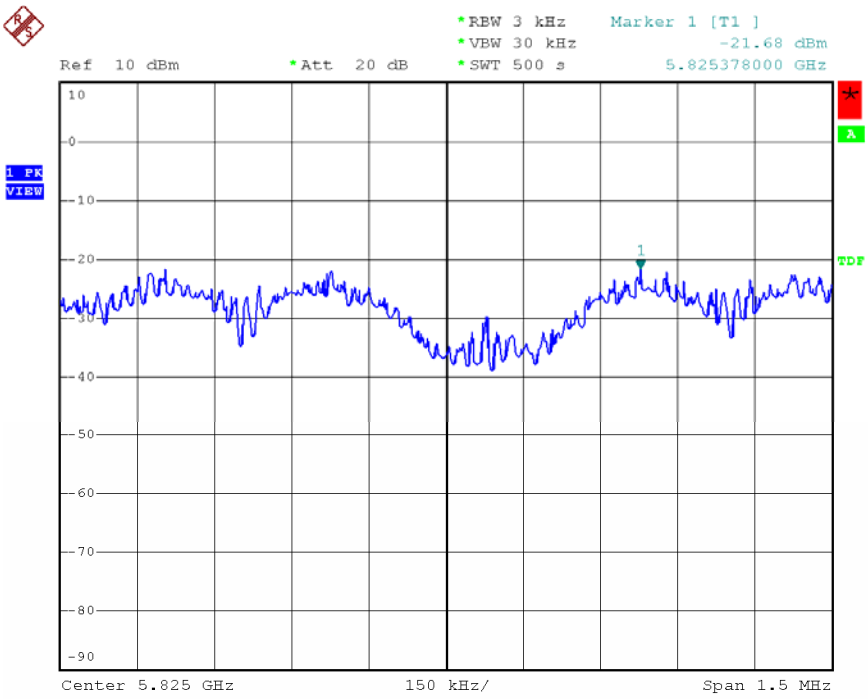
Date: 21.DEC.2007 05:29:28

Channel:157



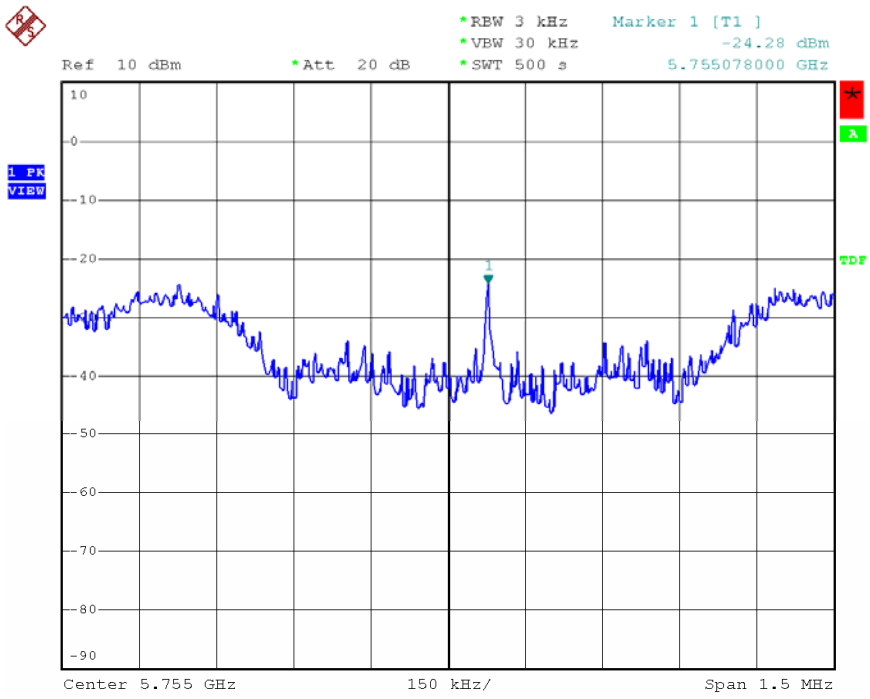
Date: 21.DEC.2007 05:24:46

Channel: 165

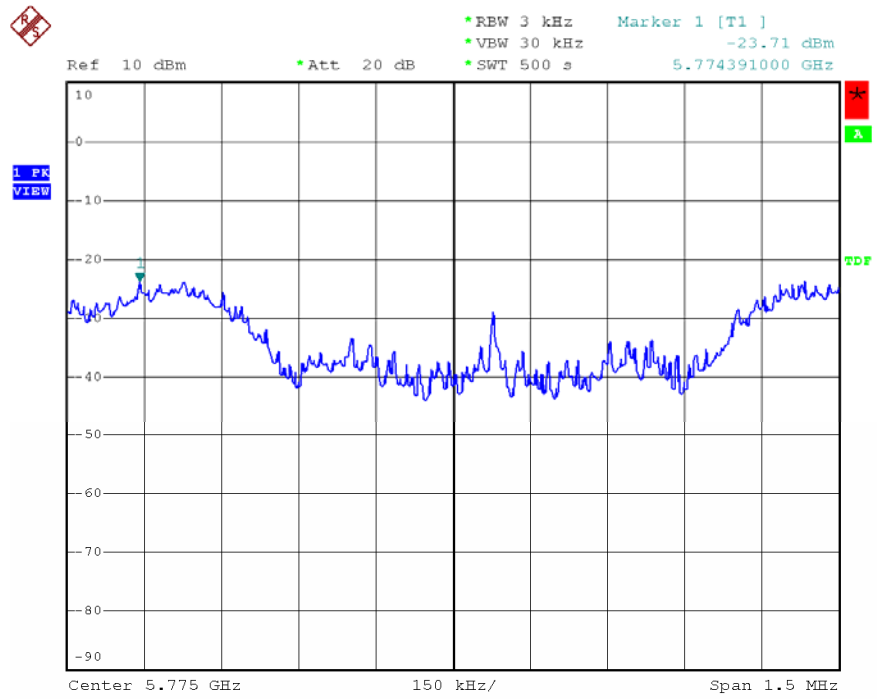


Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0

Channel: 151

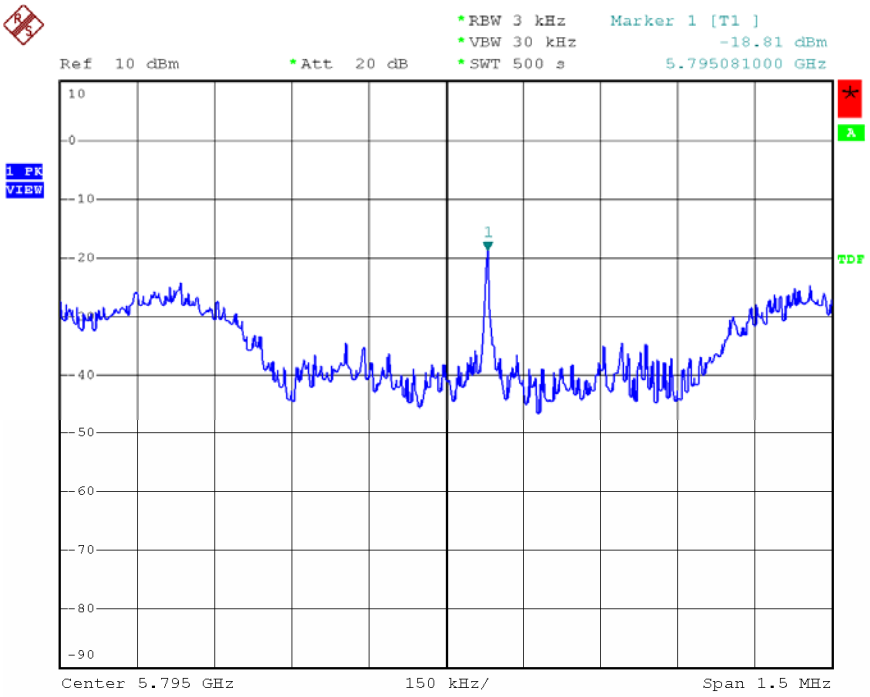


Channel:155



Date: 21.DEC.2007 04:36:14

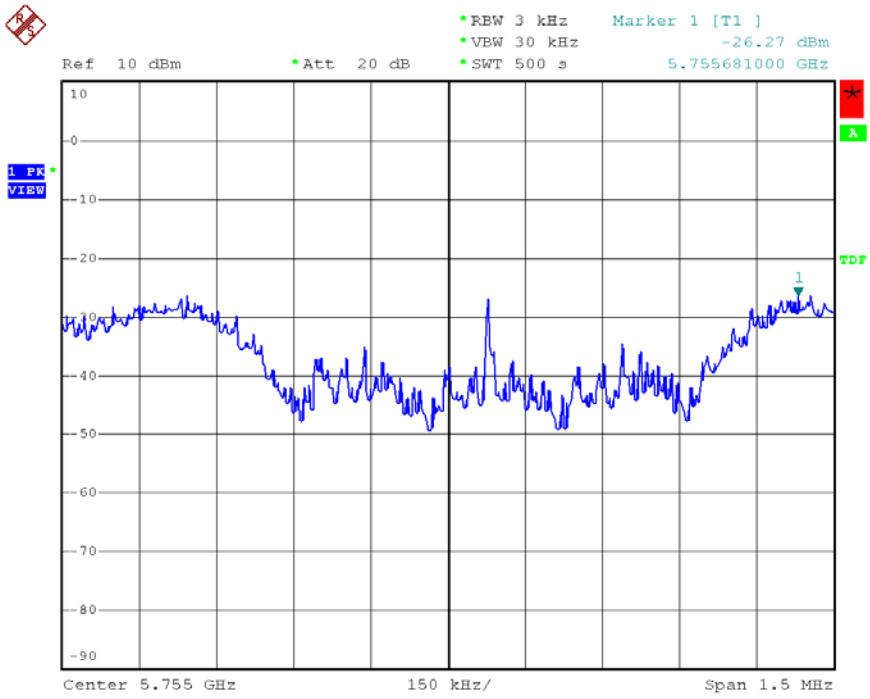
Channel: 159



Date: 21.DEC.2007 04:33:34

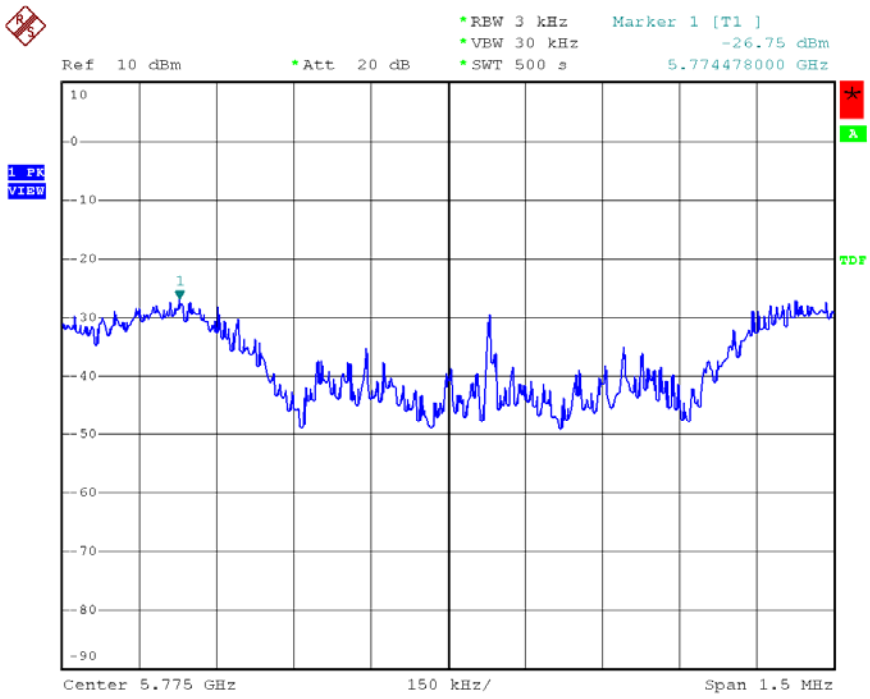
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1

Channel: 151



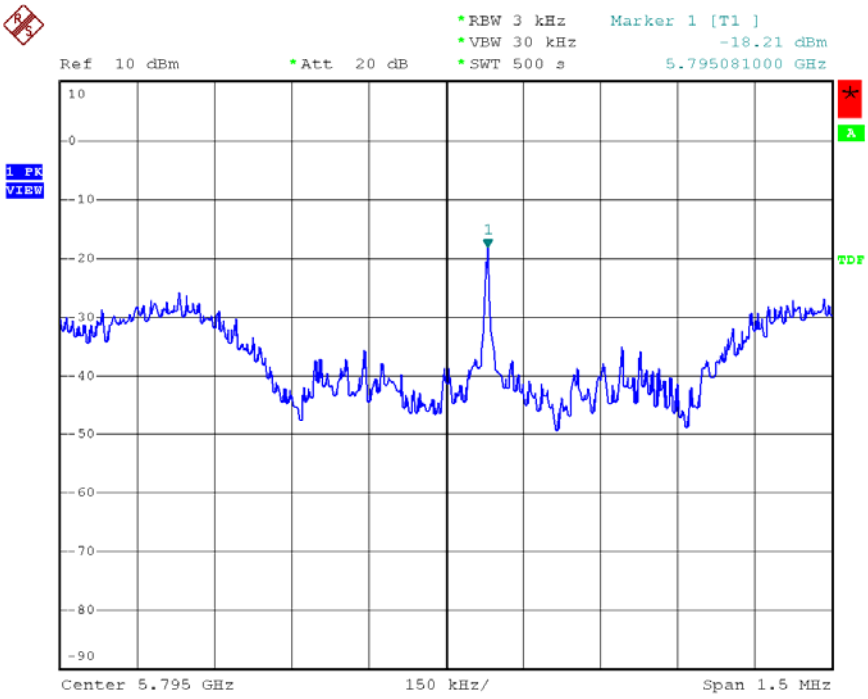
Date: 21.DEC.2007 04:38:10

Channel:155



Date: 21.DEC.2007 04:36:48

Channel: 159


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-18.21 dBm
5.795081000 GHz
Ref 10 dBm
*Att 20 dB
1 PK
VIEW
TDF
Center 5.795 GHz
150 kHz/
Span 1.5 MHz
Date: 21.DEC.2007 04:32:48

16. 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

16.1 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.