

EXHIBIT OO – Response to Item #4

FCC ID O2Z-BT1

**Summary of Additional Emissions Tests
Taken at NW EMC
Sept 25-27, 2000**

In response to the FCC's request for emissions data (See email, Appendix A), a subset consisting of three sets of data were taken:

- 1) Measurement of emissions from the module directly terminated in a 50 ohm load.
- 2) Measurement of emissions from the module connected to a meandered microstrip (resonant length) plus coax (resonant length) connected to the highest gain antenna
- 3) Measurement of emissions from the highest gain antenna connected directly to the module (with minimal transmission line (highest output power))

Test results:

Results of these tests may be found in **Appendix C**, attached. As in the previous emissions tests (module plus antenna only) no detectable emissions from the radio in any of the above configurations were found. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and transmission line/antenna configuration in 3 orthogonal planes (per ANSI C63.4:1992). A preamp and high pass filter were use for this test in order to provide sufficient measurement sensitivity.

The peak level complies with the limits specified in 46 CFR 15.35 (b). The average level (taken with a 10 Hz VBW) complies with the limits specified in 15.209. Since the dwell time per channel of the hopping signal was less than 100 ms, the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor" derived from $20\log(\text{dwell time}/100 \text{ ms})$.

The only detectable radiated emissions were from the digital portion of the module and not from the radio. The final radiated data included with this application contains signals from the digital circuitry, and noise floor measurements in some of the restricted bands to show system sensitivity.

Appendix A.
Original Proposed Tests
(Text taken from FCC emails)

1. To demonstrate that the microstrip transmission line radiates only minimally, Intel will perform and record a scan test on the module with an antenna connected and with the antenna disconnected. When the antenna is disconnected, the transmission line will be terminated with a shielded 50 ohm SMA termination. The length of microstrip transmission line is to be an integer fraction of the center frequency, 2440 MHz. Any one of the four antennas to be used with the module may be used for this test.

2. To demonstrate that a coaxial cable connected to the microstrip transmission line radiates only minimally, Intel will perform and record a scan test on the module with and without the cable connected to the transmission line. Any one of the four antennas can be used with the module. The length of the coaxial cable is to be an integer fraction of the center frequency, 2440 MHz.

3. For the following tests, the same length of microstrip transmission line as in (1) (i.e. an integer fraction of the center frequency, 2440 MHz) shall be used, connected on one end to the transmission line and on the other end to one of the antennas to be used with the module. The following tests shall be performed and recorded:

(a) a minimum dimension (W and H) 50 ohm transmission line will be tested in a straight line and a meandered line (two 45 degree angle turns) configuration; Intel estimates that the minimum dimension line trace will be approximately 7 mil by 4.4 mil;

(b) a maximum dimension (W and H) 50 ohm transmission line will be tested in a straight line and a meandered line (at least two 45 degree angle turns) configuration; Intel estimates that the maximum dimension line trace will be approximately 115 mil by 63 mil. The same antenna as used in Paragraph 2 shall be used with the foregoing tests.

4. Intel will perform a test with the same antenna used in Paragraph 3, connected as close to the module as may be implemented by an OEM customer.

5. Using the test configuration which produces the "worse case" test results from Paragraphs 3 and 4 above, Intel will test the three other types of antennas which will be marketed with the module in the worse case configuration. No other test with the three antennas will be required.

Appendix B Transmission Line Calculations

Coax:

A section of coaxial cable producing common mode emissions will have an electrical length of simply:

$$L(\text{meters}) = c/f$$

Where $c = 3 \times 10^8$ meters

And $f = \text{freq (Hz)}$

For this case, we want the line to be 3 wavelengths long at 2440 MHz, or one wavelength long at 813 MHz.

$$L = 3 \times 10^8 / 813 \times 10^6 = .363 \text{ meters} = 14.3 \text{ inches (air)}$$

Microstrip:

For the **wide microstrip line** the following parameters were used:

H (board thickness) = 0.062 inches

Er (Dielectric constant) = 4.5 (for FR-4 material)

F0 (center frequency) = 2440 MHz

For a 50 ohm line:

W (line width) = 0.115 inches

L (1080 degrees, for resonance at 813 MHz) = 7.822 inches

For the **narrow (6 mil)**, the following parameters were used:

Er (Dielectric constant) = 4.5 (for FR-4 material)

F0 (center frequency) = 2440 MHz

For a 50 ohm line:

H (board height) = 4 mil

L(1080 degrees, for resonance at 813 MHz) = 7.95 inches

Appendix C Emissions Data

Matrix of Radiated Spurious Emissions from Ambler Bluetooth Testing done at Northwest EMC on September 26 - 27, 2000

- Config #1: Straight Microstrip terminated in 50 ohms, Top of trace facing measurement antenna
- Config #2: Straight Microstrip terminated in 50 ohms, Edge of trace facing measurement antenna
- Config #3: Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip. Top of trace facing measurement antenna
- Config #4: Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip. Edge of trace facing measurement antenna
- Config #5: Direct connection of Antenna B with minimum length coax (approx. 0.5 inches including connector) Transmit antenna in horizontal polarity
- Config #6: Direct connection of Antenna B with minimum length coax (approx. 0.5 inches including connector) Transmit antenna in vertical polarity

Configurations	Run #				
	30MHz - 1GHz	1GHz - 4GHz	4GHz-10GHz	10GHz - 18GHz	18GHz-25GHz
#1	10	1	4	15	17
#2	11	2	3	16	18
#3	12	6	5	13	19
#4	9	7	8	14	20
#5	24	21	25	28	29
#6	23	22	26	27	30

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/25/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

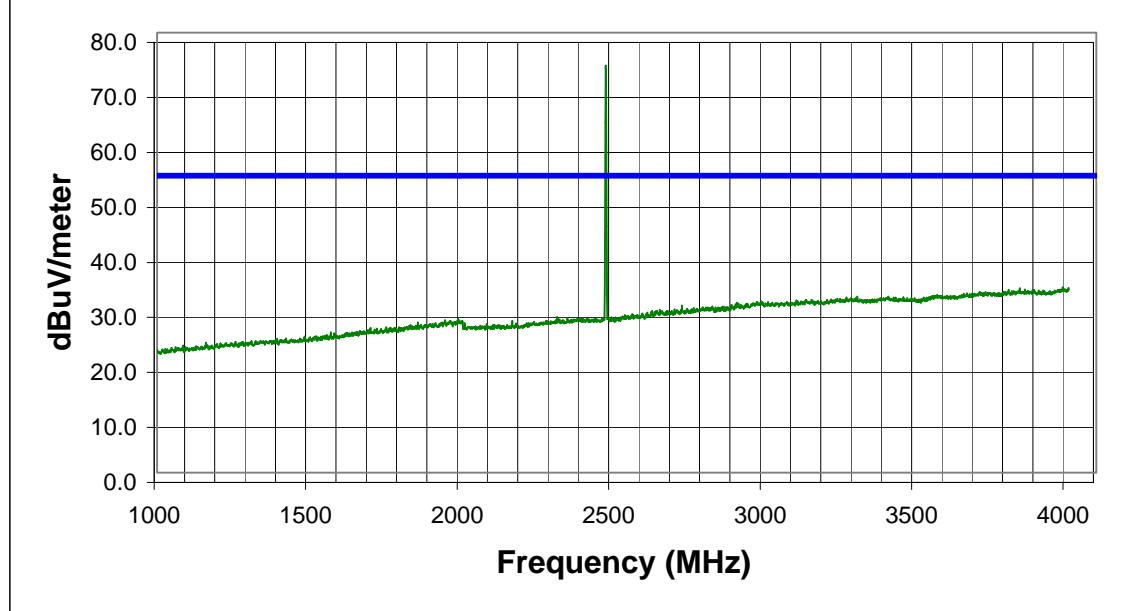
Comments: **No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated in a shielded 50ohm load.**

Run #1		Temperature (°C): 72	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
2480.939	77.9	Ver.	-3.8	74.1	54.0	20.1
3988.079	31.6	Ver.	2.1	33.7	54.0	-20.3
4007.460	31.5	Ver.	2.1	33.6	54.0	-20.4
3847.317	31.8	Ver.	1.7	33.5	54.0	-20.5
3992.159	31.3	Hor.	2.1	33.4	54.0	-20.6
3989.609	31.3	Ver.	2.1	33.4	54.0	-20.6
3820.286	31.8	Ver.	1.6	33.4	54.0	-20.6
4005.420	31.2	Ver.	2.1	33.3	54.0	-20.7
3863.637	31.6	Hor.	1.7	33.3	54.0	-20.7
3986.549	31.2	Ver.	2.1	33.3	54.0	-20.7
3979.919	31.2	Hor.	2.1	33.3	54.0	-20.7
3998.280	31.2	Hor.	2.1	33.3	54.0	-20.7
3995.219	31.2	Hor.	2.1	33.3	54.0	-20.7
3894.238	31.4	Hor.	1.8	33.2	54.0	-20.8
3972.779	31.2	Ver.	2.0	33.2	54.0	-20.8
3831.506	31.6	Hor.	1.6	33.2	54.0	-20.8
3966.149	31.2	Ver.	2.0	33.2	54.0	-20.8
3943.708	31.2	Ver.	2.0	33.2	54.0	-20.8
3889.137	31.4	Hor.	1.8	33.2	54.0	-20.8
3874.347	31.5	Ver.	1.7	33.2	54.0	-20.8

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Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

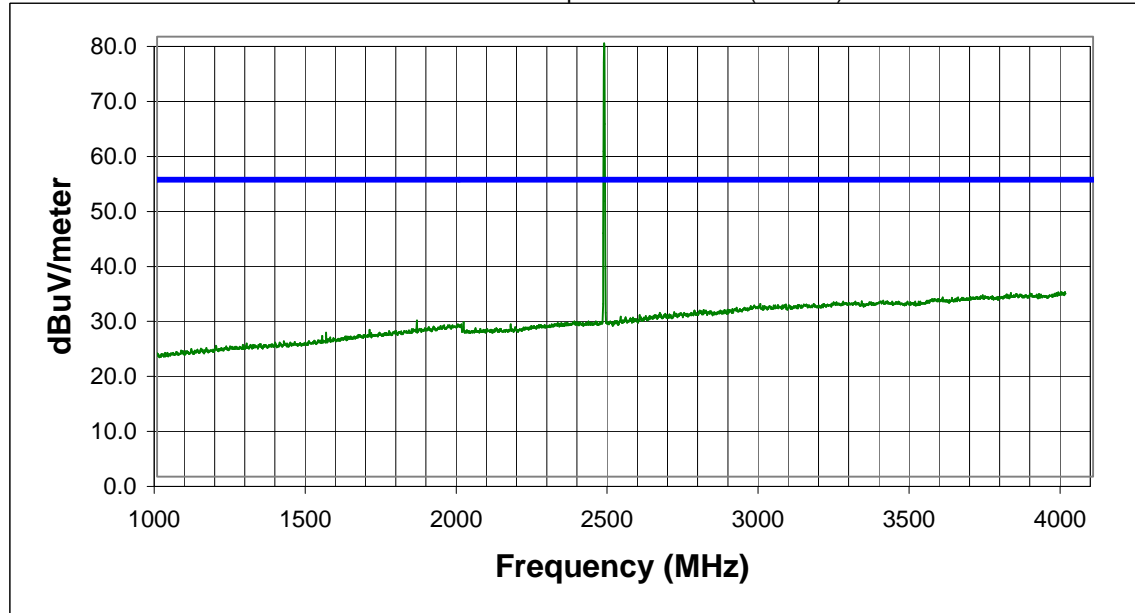
Comments: **No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated in a shielded 50ohm load. Edge of Trace.**

Run #2		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
2480.939	82.6	Ver.	-3.8	78.8	54.0	24.8
4006.440	31.5	Ver.	2.1	33.6	54.0	-20.4
3992.669	31.5	Hor.	2.1	33.6	54.0	-20.4
3995.729	31.4	Hor.	2.1	33.5	54.0	-20.5
3983.999	31.4	Ver.	2.1	33.5	54.0	-20.5
4003.890	31.3	Ver.	2.1	33.4	54.0	-20.6
3998.790	31.3	Hor.	2.1	33.4	54.0	-20.6
3979.409	31.3	Ver.	2.1	33.4	54.0	-20.6
4000.320	31.3	Ver.	2.1	33.4	54.0	-20.6
3827.936	31.8	Ver.	1.6	33.4	54.0	-20.6
3988.589	31.2	Hor.	2.1	33.3	54.0	-20.7
4007.970	31.2	Hor.	2.1	33.3	54.0	-20.7
4008.990	31.2	Ver.	2.1	33.3	54.0	-20.7
3974.309	31.3	Ver.	2.0	33.3	54.0	-20.7
3892.708	31.5	Hor.	1.8	33.3	54.0	-20.7
3920.758	31.4	Ver.	1.8	33.2	54.0	-20.8
3971.759	31.2	Ver.	2.0	33.2	54.0	-20.8
3845.787	31.5	Ver.	1.7	33.2	54.0	-20.8
3895.258	31.4	Hor.	1.8	33.2	54.0	-20.8
3976.859	31.1	Hor.	2.1	33.2	54.0	-20.8

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Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

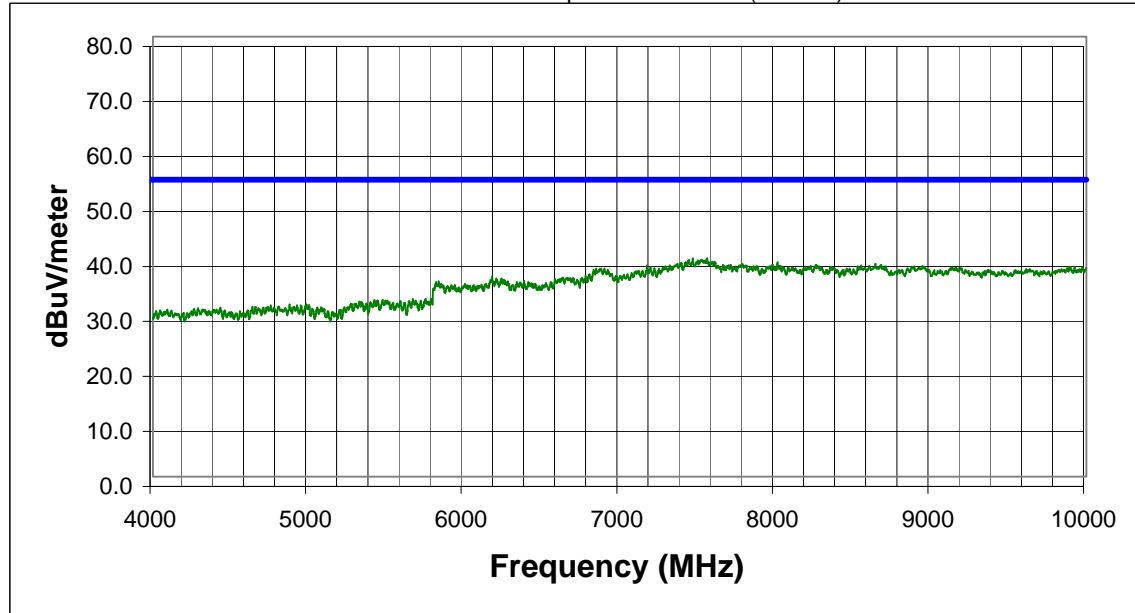
Comments: **No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated in a shielded 50ohm load. Edge of Trace.**

Run #3		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
7470.000	29.9	Ver.	9.8	39.7	54.0	-14.3
7562.000	29.7	Ver.	10.0	39.7	54.0	-14.3
7559.000	29.5	Hor.	10.0	39.5	54.0	-14.5
7445.000	29.7	Ver.	9.7	39.4	54.0	-14.6
7530.000	29.4	Hor.	10.0	39.4	54.0	-14.6
7524.000	29.4	Ver.	10.0	39.4	54.0	-14.6
7505.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7527.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7503.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7549.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7440.000	29.6	Hor.	9.6	39.2	54.0	-14.8
7543.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7516.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7565.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7512.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7424.000	29.5	Hor.	9.5	39.0	54.0	-15.0
8015.000	29.1	Ver.	9.9	39.0	54.0	-15.0
7496.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7595.000	29.0	Ver.	10.0	39.0	54.0	-15.0
7537.000	29.1	Hor.	9.9	39.0	54.0	-15.0

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Customer Reference Number:	Software:	Power:	

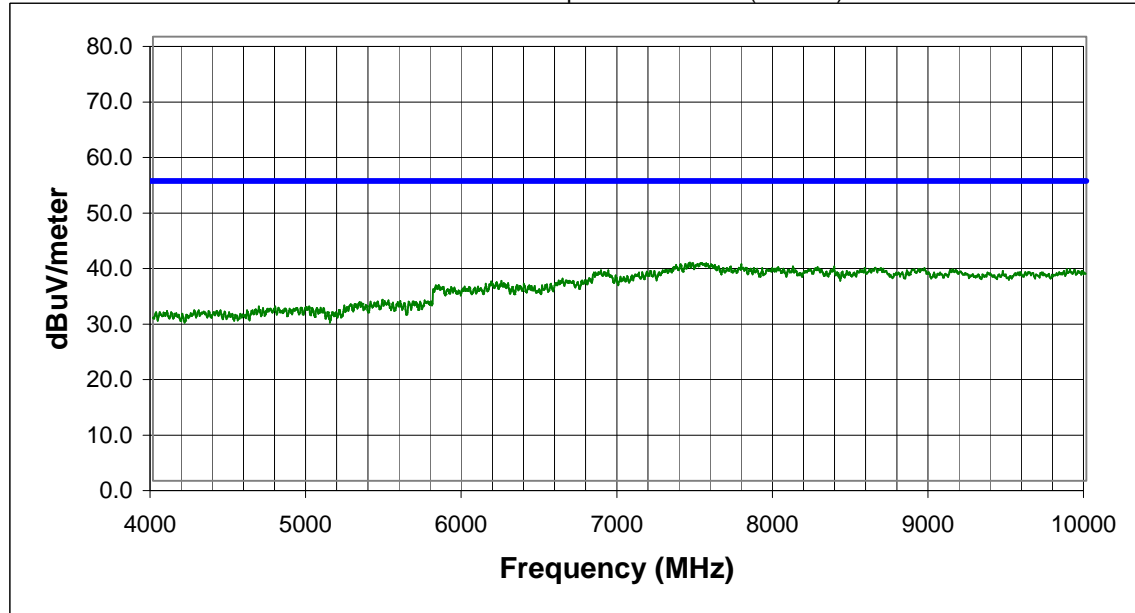
Comments: **No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated in a shielded 50ohm load. Top of Trace.**

Run #4		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



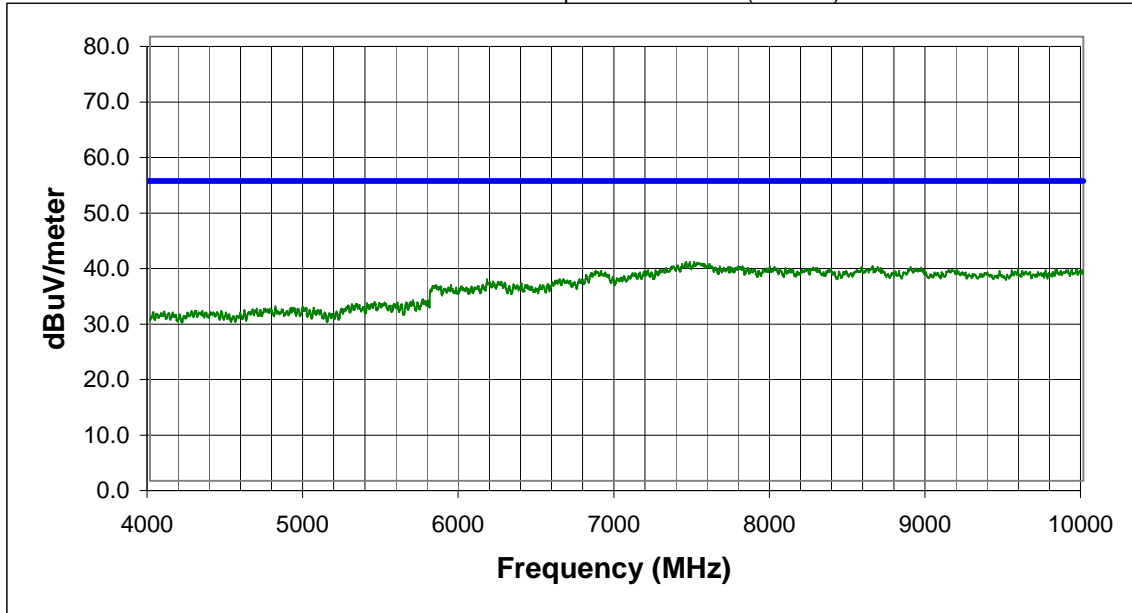
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
7451.000	29.6	Ver.	9.7	39.3	54.0	-14.7
7525.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7472.000	29.4	Ver.	9.8	39.2	54.0	-14.8
7465.000	29.4	Hor.	9.8	39.2	54.0	-14.8
7557.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7443.000	29.6	Hor.	9.6	39.2	54.0	-14.8
7520.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7530.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7423.000	29.6	Ver.	9.5	39.1	54.0	-14.9
7545.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7518.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7501.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7514.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7588.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7568.000	29.0	Ver.	10.0	39.0	54.0	-15.0
7448.000	29.3	Hor.	9.7	39.0	54.0	-15.0
7538.000	29.1	Ver.	9.9	39.0	54.0	-15.0
7391.000	29.6	Hor.	9.4	39.0	54.0	-15.0
7783.000	29.1	Hor.	9.9	39.0	54.0	-15.0
7540.000	29.1	Hor.	9.9	39.0	54.0	-15.0

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Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Top of Trace.			
Run #5		Temperature (°C): 22	% Humidity: 49
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
7470.000	29.6	Ver.	9.8	39.4	54.0	-14.6
7448.000	29.7	Ver.	9.7	39.4	54.0	-14.6
7497.000	29.4	Ver.	10.0	39.4	54.0	-14.6
7520.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7501.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7517.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7534.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7442.000	29.6	Hor.	9.6	39.2	54.0	-14.8
7467.000	29.3	Ver.	9.8	39.1	54.0	-14.9
7540.000	29.2	Hor.	9.9	39.1	54.0	-14.9
7421.000	29.6	Hor.	9.5	39.1	54.0	-14.9
7597.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7563.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7525.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7450.000	29.4	Hor.	9.7	39.1	54.0	-14.9
7555.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7545.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7514.000	29.0	Ver.	10.0	39.0	54.0	-15.0
7494.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7565.000	28.9	Ver.	10.0	38.9	54.0	-15.1

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets Rev 3.3
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EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

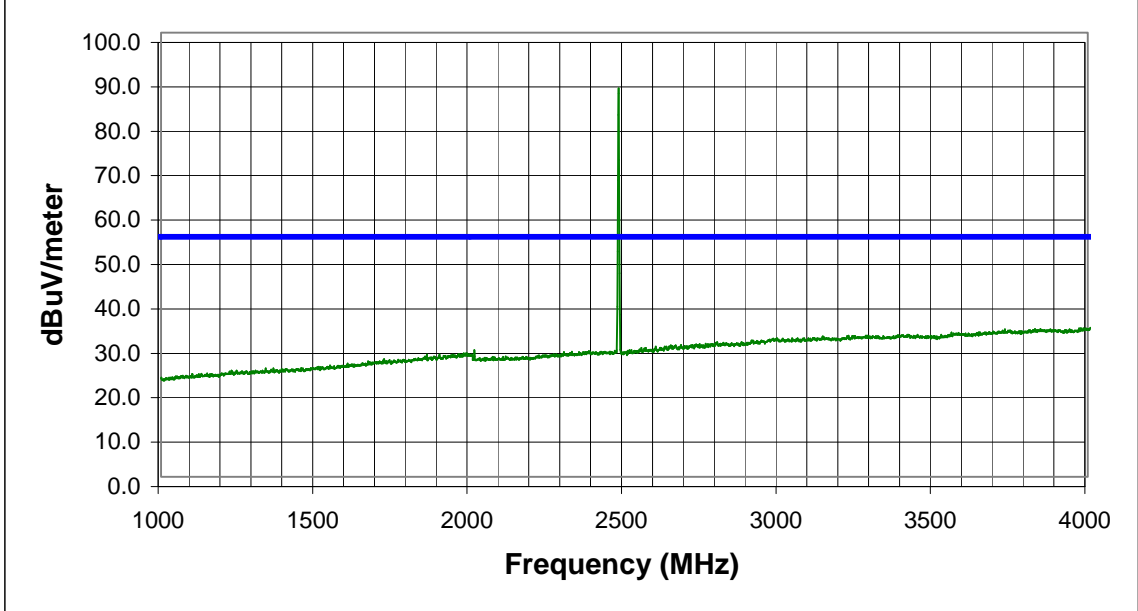
Comments: **No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Top of Trace.**

Run #6		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
2480.939	91.3	Ver.	-3.8	87.5	54.0	33.5
4008.480	31.5	Ver.	2.1	33.6	54.0	-20.4
3994.199	31.3	Hor.	2.1	33.4	54.0	-20.6
3976.859	31.3	Hor.	2.1	33.4	54.0	-20.6
3986.039	31.3	Hor.	2.1	33.4	54.0	-20.6
3994.709	31.3	Ver.	2.1	33.4	54.0	-20.6
4008.990	31.3	Ver.	2.1	33.4	54.0	-20.6
3971.759	31.4	Hor.	2.0	33.4	54.0	-20.6
4000.320	31.2	Ver.	2.1	33.3	54.0	-20.7
3846.297	31.6	Hor.	1.7	33.3	54.0	-20.7
3989.609	31.2	Hor.	2.1	33.3	54.0	-20.7
3828.956	31.7	Hor.	1.6	33.3	54.0	-20.7
3979.409	31.1	Ver.	2.1	33.2	54.0	-20.8
3940.648	31.2	Hor.	2.0	33.2	54.0	-20.8
3975.839	31.1	Ver.	2.1	33.2	54.0	-20.8
3988.589	31.1	Ver.	2.1	33.2	54.0	-20.8
4006.440	31.1	Hor.	2.1	33.2	54.0	-20.8
3997.770	31.1	Ver.	2.1	33.2	54.0	-20.8
3878.937	31.5	Hor.	1.7	33.2	54.0	-20.8
3732.054	31.8	Ver.	1.4	33.2	54.0	-20.8

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EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

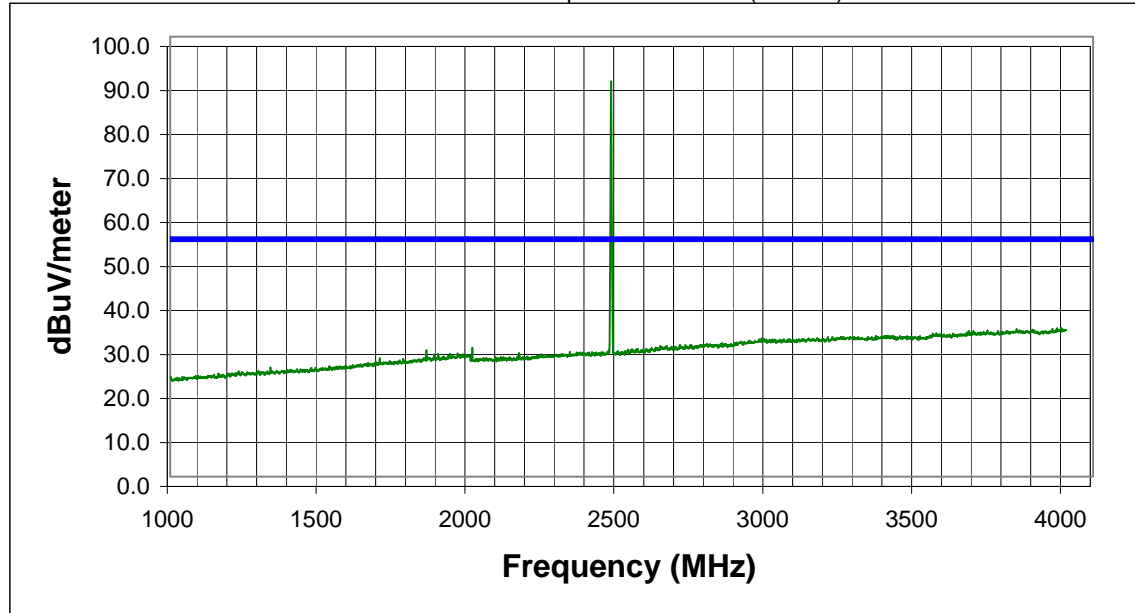
Comments: **No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Edge of Trace.**

Run #7		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
2480.939	93.6	Ver.	-3.8	89.8	54.0	35.8
3992.669	31.7	Hor.	2.1	33.8	54.0	-20.2
3979.409	31.6	Hor.	2.1	33.7	54.0	-20.3
3978.389	31.6	Ver.	2.1	33.7	54.0	-20.3
4009.500	31.6	Ver.	2.1	33.7	54.0	-20.3
3963.089	31.6	Hor.	2.0	33.6	54.0	-20.4
3997.260	31.4	Hor.	2.1	33.5	54.0	-20.5
3842.727	31.8	Ver.	1.7	33.5	54.0	-20.5
3986.039	31.3	Hor.	2.1	33.4	54.0	-20.6
3990.119	31.3	Ver.	2.1	33.4	54.0	-20.6
3895.768	31.6	Ver.	1.8	33.4	54.0	-20.6
4004.910	31.2	Ver.	2.1	33.3	54.0	-20.7
3995.219	31.2	Ver.	2.1	33.3	54.0	-20.7
3900.358	31.5	Ver.	1.8	33.3	54.0	-20.7
3999.810	31.1	Ver.	2.1	33.2	54.0	-20.8
3987.059	31.1	Hor.	2.1	33.2	54.0	-20.8
3852.927	31.5	Ver.	1.7	33.2	54.0	-20.8
3744.805	31.7	Hor.	1.5	33.2	54.0	-20.8
3983.489	31.1	Hor.	2.1	33.2	54.0	-20.8
4002.870	31.1	Ver.	2.1	33.2	54.0	-20.8

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

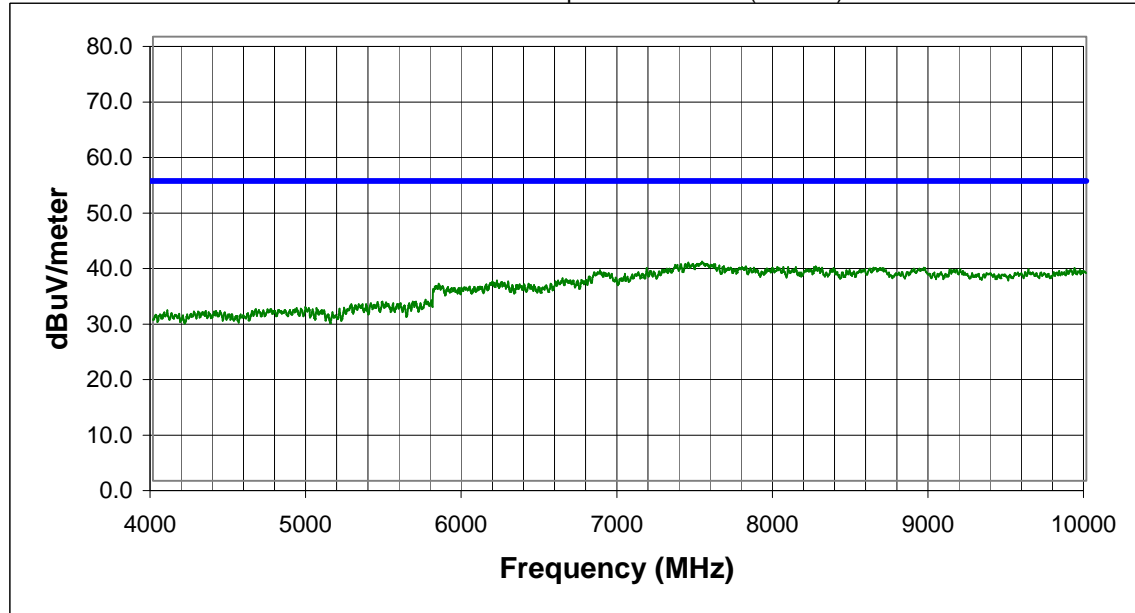
Comments: **No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Edge of Trace.**

Run #8		Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



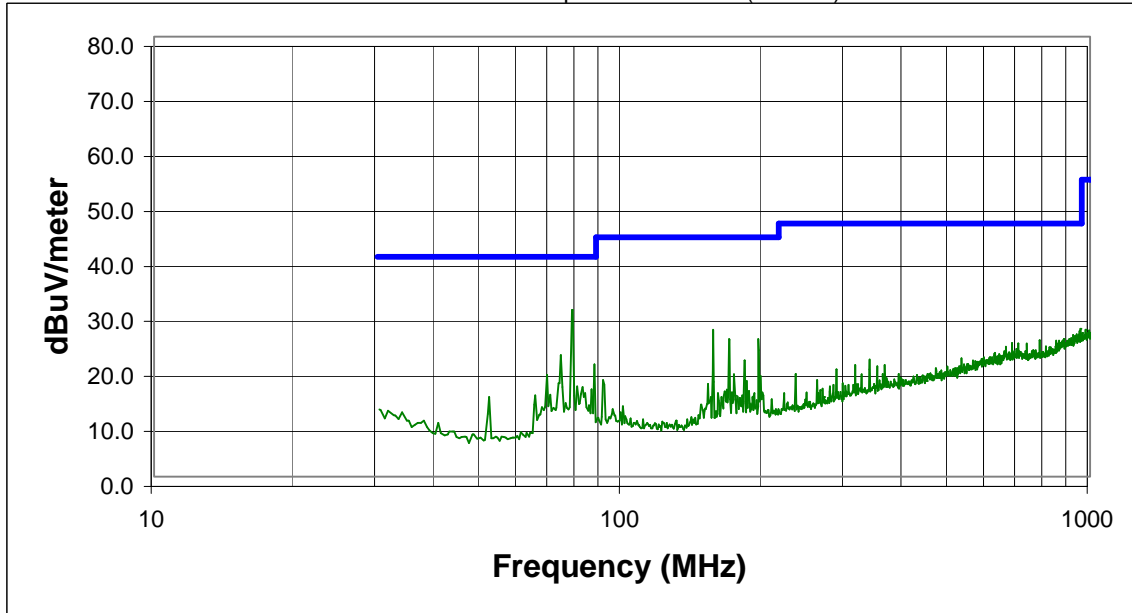
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
7530.000	29.5	Ver.	10.0	39.5	54.0	-14.5
7442.000	29.7	Hor.	9.6	39.3	54.0	-14.7
7536.000	29.3	Hor.	9.9	39.2	54.0	-14.8
7521.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7423.000	29.6	Hor.	9.5	39.1	54.0	-14.9
7469.000	29.3	Hor.	9.8	39.1	54.0	-14.9
7439.000	29.5	Ver.	9.6	39.1	54.0	-14.9
7496.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7546.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7501.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7556.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7512.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7517.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7498.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7506.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7561.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7471.000	29.2	Hor.	9.8	39.0	54.0	-15.0
7446.000	29.3	Ver.	9.7	39.0	54.0	-15.0
7606.000	29.1	Hor.	9.9	39.0	54.0	-15.0
7615.000	29.1	Ver.	9.9	39.0	54.0	-15.0

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Edge of Trace.			
Run #9		Temperature (°C): 22	% Humidity: 49
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (3 meter)



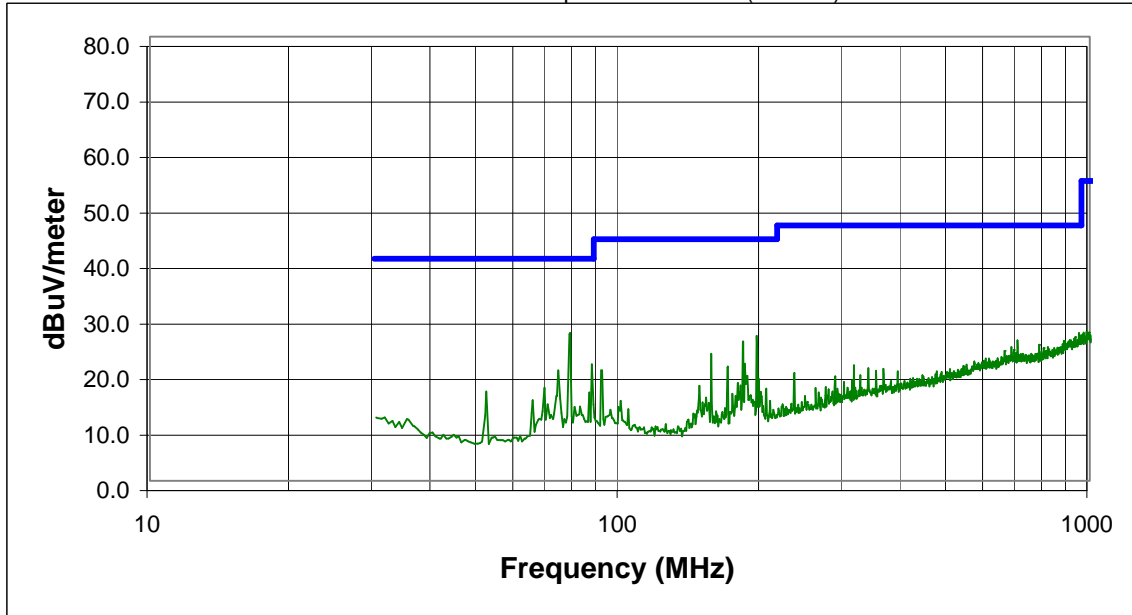
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.125	52.1	Hor.	-21.8	30.3	40.0	-9.7
156.500	47.7	Hor.	-21.0	26.7	43.5	-16.8
74.000	44.4	Hor.	-22.3	22.1	40.0	-17.9
195.549	45.2	Hor.	-20.2	25.0	43.5	-18.5
169.425	45.5	Hor.	-20.5	25.0	43.5	-18.5
953.508	33.2	Ver.	-6.3	26.9	46.0	-19.1
949.604	32.8	Hor.	-6.3	26.5	46.0	-19.5
87.200	41.6	Hor.	-21.2	20.4	40.0	-19.6
955.283	32.2	Hor.	-6.2	26.0	46.0	-20.0
936.114	32.5	Hor.	-6.6	25.9	46.0	-20.1
920.495	32.6	Hor.	-6.8	25.8	46.0	-20.2
944.279	32.1	Ver.	-6.4	25.7	46.0	-20.3
929.015	32.3	Hor.	-6.7	25.6	46.0	-20.4
941.794	32.1	Hor.	-6.6	25.5	46.0	-20.5
933.274	32.1	Ver.	-6.6	25.5	46.0	-20.5
926.885	31.9	Ver.	-6.7	25.2	46.0	-20.8
938.244	31.8	Ver.	-6.6	25.2	46.0	-20.8
911.266	32.1	Ver.	-6.9	25.2	46.0	-20.8
933.984	31.7	Ver.	-6.6	25.1	46.0	-20.9
958.833	31.3	Ver.	-6.2	25.1	46.0	-20.9

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated with a shielded 50 ohm load. Top of Trace.			
Run #10		Temperature (°C): 22	% Humidity: 49
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (3 meter)



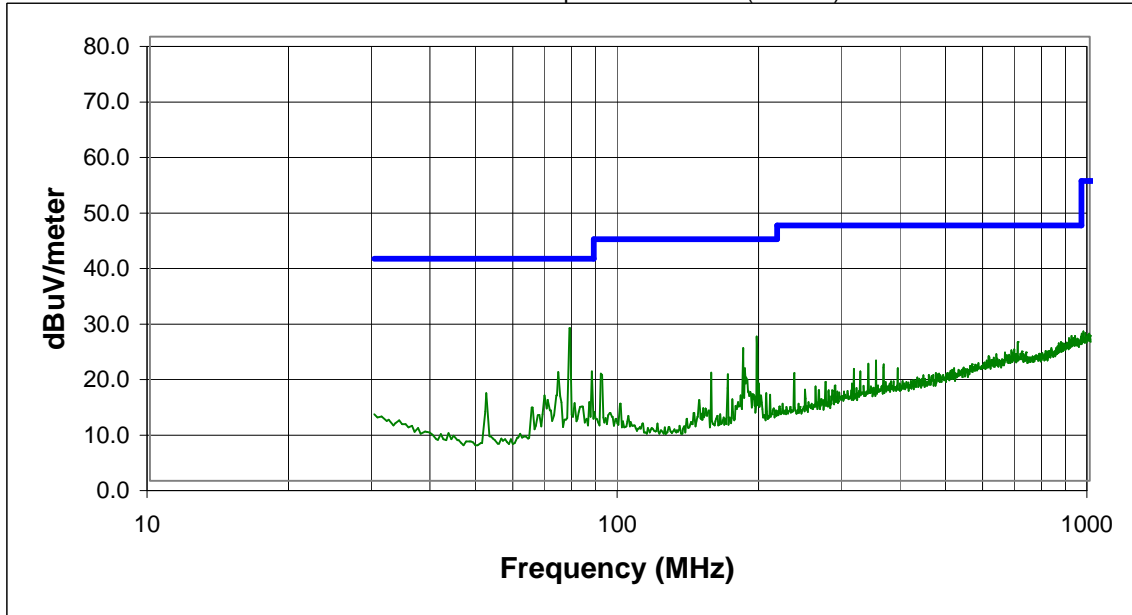
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.400	48.4	Hor.	-21.8	26.6	40.0	-13.4
195.549	46.3	Hor.	-20.2	26.1	43.5	-17.4
182.624	45.6	Hor.	-20.5	25.1	43.5	-18.4
87.200	42.2	Hor.	-21.2	21.0	40.0	-19.0
948.184	32.9	Hor.	-6.3	26.6	46.0	-19.4
958.833	32.4	Hor.	-6.2	26.2	46.0	-19.8
74.000	42.2	Hor.	-22.3	19.9	40.0	-20.1
932.209	32.5	Ver.	-6.6	25.9	46.0	-20.1
953.153	32.1	Ver.	-6.3	25.8	46.0	-20.2
926.175	32.3	Ver.	-6.7	25.6	46.0	-20.4
957.413	31.8	Hor.	-6.2	25.6	46.0	-20.4
955.638	31.7	Hor.	-6.2	25.5	46.0	-20.5
156.500	43.9	Hor.	-21.0	22.9	43.5	-20.6
941.084	32.0	Ver.	-6.6	25.4	46.0	-20.6
946.764	31.7	Hor.	-6.3	25.4	46.0	-20.6
905.586	32.4	Ver.	-7.1	25.3	46.0	-20.7
911.266	32.2	Ver.	-6.9	25.3	46.0	-20.7
907.716	32.2	Hor.	-6.9	25.3	46.0	-20.7
701.827	34.5	Hor.	-9.2	25.3	46.0	-20.7
881.447	32.7	Ver.	-7.5	25.2	46.0	-20.8

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Micro-strip, 7.822 inch long, 0.115 inch wide, 0.062 inch above ground plane, straight PCB etch, FR-4, terminated with a shielded 50 ohm load. Edge of Trace			
Run #11		Temperature (°C): 22	% Humidity: 49
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (3 meter)



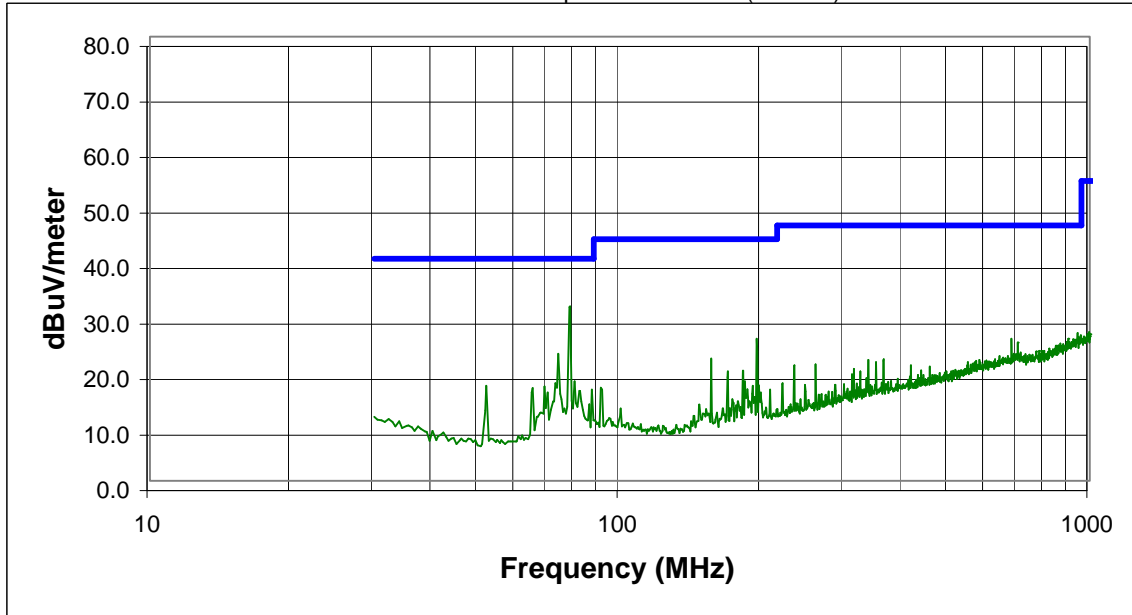
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.125	49.3	Hor.	-21.8	27.5	40.0	-12.5
195.549	46.2	Hor.	-20.2	26.0	43.5	-17.5
182.899	44.4	Hor.	-20.5	23.9	43.5	-19.6
931.144	32.7	Hor.	-6.6	26.1	46.0	-19.9
914.106	33.0	Hor.	-6.9	26.1	46.0	-19.9
958.833	32.2	Hor.	-6.2	26.0	46.0	-20.0
87.200	40.9	Hor.	-21.2	19.7	40.0	-20.3
925.465	32.4	Hor.	-6.7	25.7	46.0	-20.3
921.205	32.5	Hor.	-6.8	25.7	46.0	-20.3
902.746	32.8	Ver.	-7.1	25.7	46.0	-20.3
941.439	32.2	Ver.	-6.6	25.6	46.0	-20.4
922.270	32.4	Hor.	-6.8	25.6	46.0	-20.4
74.000	41.9	Hor.	-22.3	19.6	40.0	-20.4
944.634	31.8	Ver.	-6.4	25.4	46.0	-20.6
932.209	32.0	Hor.	-6.6	25.4	46.0	-20.6
940.729	32.0	Hor.	-6.6	25.4	46.0	-20.6
911.266	32.3	Hor.	-6.9	25.4	46.0	-20.6
949.604	31.6	Ver.	-6.3	25.3	46.0	-20.7
917.655	32.2	Ver.	-6.9	25.3	46.0	-20.7
923.335	32.0	Hor.	-6.8	25.2	46.0	-20.8

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high). Top of Trace			
Run #12		Temperature (°C): 22	% Humidity: 49
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (3 meter)



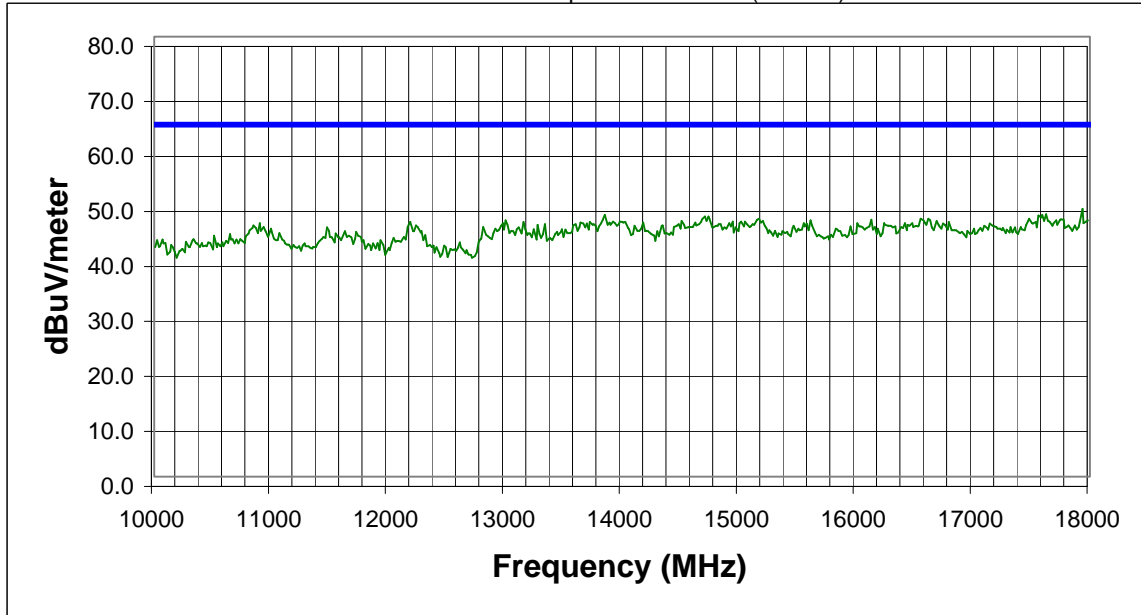
Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.400	53.2	Hor.	-21.8	31.4	40.0	-8.6
74.000	45.2	Hor.	-22.3	22.9	40.0	-17.1
195.549	45.8	Hor.	-20.2	25.6	43.5	-17.9
941.794	33.2	Ver.	-6.6	26.6	46.0	-19.4
956.703	32.4	Ver.	-6.2	26.2	46.0	-19.8
958.123	32.3	Ver.	-6.2	26.1	46.0	-19.9
947.119	32.2	Hor.	-6.3	25.9	46.0	-20.1
900.261	32.7	Ver.	-7.1	25.6	46.0	-20.4
952.443	31.9	Ver.	-6.3	25.6	46.0	-20.4
681.238	35.0	Ver.	-9.4	25.6	46.0	-20.4
958.833	31.8	Ver.	-6.2	25.6	46.0	-20.4
945.344	31.9	Hor.	-6.4	25.5	46.0	-20.5
948.184	31.8	Ver.	-6.3	25.5	46.0	-20.5
954.573	31.8	Hor.	-6.3	25.5	46.0	-20.5
922.270	32.3	Hor.	-6.8	25.5	46.0	-20.5
943.214	32.0	Hor.	-6.6	25.4	46.0	-20.6
935.049	32.0	Ver.	-6.6	25.4	46.0	-20.6
927.595	32.1	Hor.	-6.7	25.4	46.0	-20.6
938.244	31.9	Hor.	-6.6	25.3	46.0	-20.7
936.824	31.9	Ver.	-6.6	25.3	46.0	-20.7

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

Rev 3.3
10/09/99

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high) Top of Trace			
Run #13		Temperature (°C): 22	% Humidity: 34
Test System			
Test Equipment			

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
17936.240	33.0	Ver.	15.7	48.7	64.0	-15.3
17624.551	33.0	Ver.	14.7	47.7	64.0	-16.3
13852.230	35.4	Ver.	12.2	47.6	64.0	-16.4
17560.609	33.1	Hor.	14.4	47.5	64.0	-16.5
14739.370	34.8	Hor.	12.5	47.3	64.0	-16.7
14707.400	34.8	Hor.	12.5	47.3	64.0	-16.7
16553.590	35.0	Ver.	11.9	46.9	64.0	-17.1
16617.529	35.0	Ver.	11.9	46.9	64.0	-17.1
17480.689	32.8	Hor.	14.1	46.9	64.0	-17.1
15170.950	35.0	Ver.	11.9	46.9	64.0	-17.1
17752.420	31.6	Ver.	15.2	46.8	64.0	-17.2
16130.010	35.1	Ver.	11.6	46.7	64.0	-17.3
15610.520	35.3	Hor.	11.3	46.6	64.0	-17.4
13005.060	34.9	Ver.	11.7	46.6	64.0	-17.4
17984.199	30.7	Hor.	15.9	46.6	64.0	-17.4
16633.520	34.8	Ver.	11.8	46.6	64.0	-17.4
14507.590	33.8	Hor.	12.7	46.5	64.0	-17.5
17640.529	31.8	Hor.	14.7	46.5	64.0	-17.5
15202.910	34.6	Ver.	11.9	46.5	64.0	-17.5
16689.461	34.6	Ver.	11.9	46.5	64.0	-17.5

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10/09/99

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

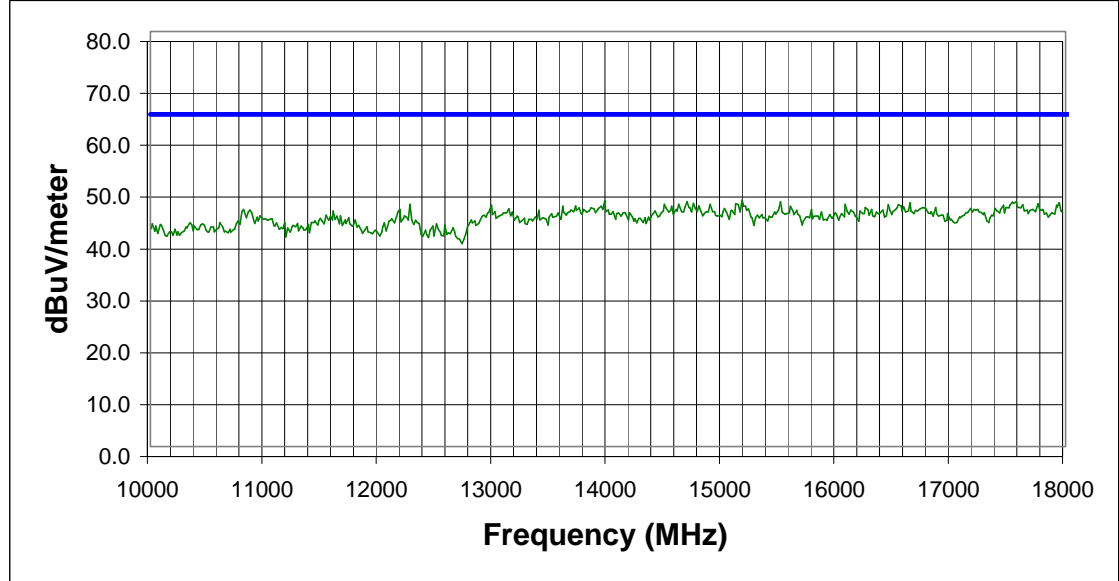
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high) Edge of Trace			

Run #14	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
15170.950	35.6	Hor.	11.9	47.5	64.0	-16.5
13972.120	35.0	Hor.	12.4	47.4	64.0	-16.6
14691.410	34.7	Ver.	12.5	47.2	64.0	-16.8
15506.620	36.0	Ver.	11.2	47.2	64.0	-16.8
17568.600	32.7	Hor.	14.5	47.2	64.0	-16.8
17536.631	32.8	Hor.	14.3	47.1	64.0	-16.9
17944.230	31.3	Hor.	15.7	47.0	64.0	-17.0
16641.510	35.2	Ver.	11.8	47.0	64.0	-17.0
14747.360	34.4	Ver.	12.5	46.9	64.0	-17.1
15115.000	34.7	Hor.	12.1	46.8	64.0	-17.2
17760.410	31.6	Hor.	15.2	46.8	64.0	-17.2
16074.060	35.1	Hor.	11.6	46.7	64.0	-17.3
14891.220	34.2	Ver.	12.5	46.7	64.0	-17.3
14491.610	34.0	Hor.	12.7	46.7	64.0	-17.3
12269.780	35.8	Ver.	10.9	46.7	64.0	-17.3
14619.480	34.1	Hor.	12.6	46.7	64.0	-17.3
16449.699	34.9	Ver.	11.7	46.6	64.0	-17.4
16537.609	34.8	Ver.	11.8	46.6	64.0	-17.4
17624.551	31.9	Hor.	14.7	46.6	64.0	-17.4
17456.711	32.5	Ver.	14.0	46.5	64.0	-17.5

Rev 3.3
10/09/99

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

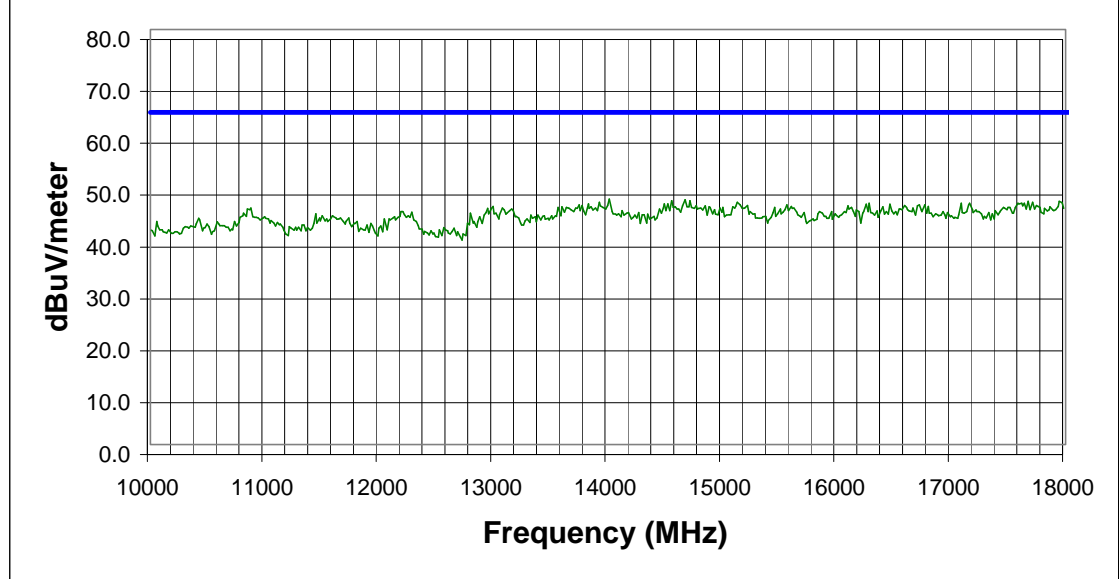
Comments: **No hop, high frequency, Microstrip 7.822 inch long, 0.115 inch wide, 0.062 inch high above ground plane, straight PCB etch, FR-4, terminated with shielded 50 ohm load. Top of Trace**

Run #15	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
14012.080	34.9	Hor.	12.4	47.3	64.0	-16.7
14675.430	34.6	Ver.	12.6	47.2	64.0	-16.8
14555.550	34.3	Hor.	12.7	47.0	64.0	-17.0
14715.390	34.5	Hor.	12.5	47.0	64.0	-17.0
17944.230	31.2	Ver.	15.7	46.9	64.0	-17.1
17672.500	32.0	Ver.	14.9	46.9	64.0	-17.1
17712.461	31.7	Ver.	15.0	46.7	64.0	-17.3
13924.160	34.5	Ver.	12.2	46.7	64.0	-17.3
15130.980	34.6	Hor.	12.1	46.7	64.0	-17.3
17616.551	31.8	Ver.	14.7	46.5	64.0	-17.5
17640.529	31.8	Ver.	14.7	46.5	64.0	-17.5
17161.000	33.8	Hor.	12.7	46.5	64.0	-17.5
16281.860	34.8	Ver.	11.7	46.5	64.0	-17.5
17089.070	34.2	Ver.	12.3	46.5	64.0	-17.5
17584.590	32.0	Hor.	14.5	46.5	64.0	-17.5
13828.260	34.3	Ver.	12.1	46.4	64.0	-17.6
14491.610	33.7	Hor.	12.7	46.4	64.0	-17.6
14523.580	33.7	Ver.	12.7	46.4	64.0	-17.6
16257.880	34.6	Hor.	11.7	46.3	64.0	-17.7
16465.680	34.5	Ver.	11.8	46.3	64.0	-17.7

Rev 3.3
10/09/99

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

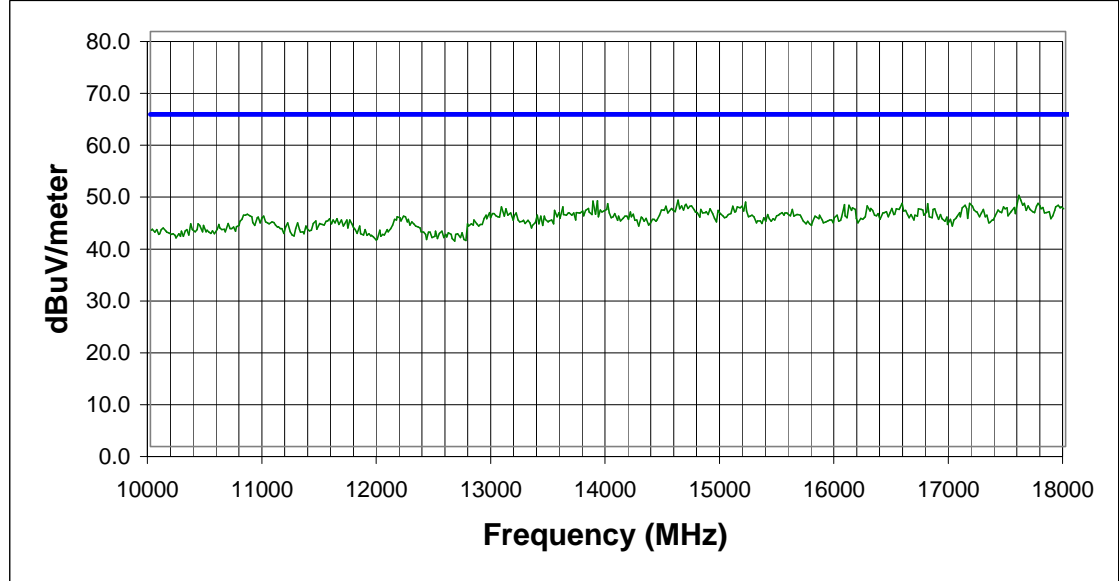
Comments: **No hop, high frequency, Microstrip 7.822 inch long, 0.115 inch wide, 0.062 inch high above ground plane, straight PCB etch, FR-4, terminated with shielded 50 ohm load.Edge of Trace**

Run #16	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
17592.580	33.8	Hor.	14.6	48.4	64.0	-15.6
14611.490	34.9	Ver.	12.6	47.5	64.0	-16.5
13908.180	35.2	Hor.	12.2	47.4	64.0	-16.6
13868.220	35.1	Hor.	12.2	47.3	64.0	-16.7
15202.910	35.2	Ver.	11.9	47.1	64.0	-16.9
17640.529	32.2	Ver.	14.7	46.9	64.0	-17.1
16569.580	35.0	Ver.	11.9	46.9	64.0	-17.1
17760.410	31.7	Ver.	15.2	46.9	64.0	-17.1
17161.000	34.2	Hor.	12.7	46.9	64.0	-17.1
17576.590	32.4	Hor.	14.5	46.9	64.0	-17.1
16793.359	34.9	Hor.	11.9	46.8	64.0	-17.2
13996.090	34.4	Hor.	12.4	46.8	64.0	-17.2
14683.420	34.1	Ver.	12.6	46.7	64.0	-17.3
16066.070	35.0	Hor.	11.6	46.6	64.0	-17.4
17936.240	30.8	Ver.	15.7	46.5	64.0	-17.5
16106.030	34.8	Ver.	11.7	46.5	64.0	-17.5
17121.039	34.1	Ver.	12.4	46.5	64.0	-17.5
17672.500	31.5	Ver.	14.9	46.4	64.0	-17.6
16265.880	34.7	Ver.	11.7	46.4	64.0	-17.6
14731.380	33.9	Ver.	12.5	46.4	64.0	-17.6

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

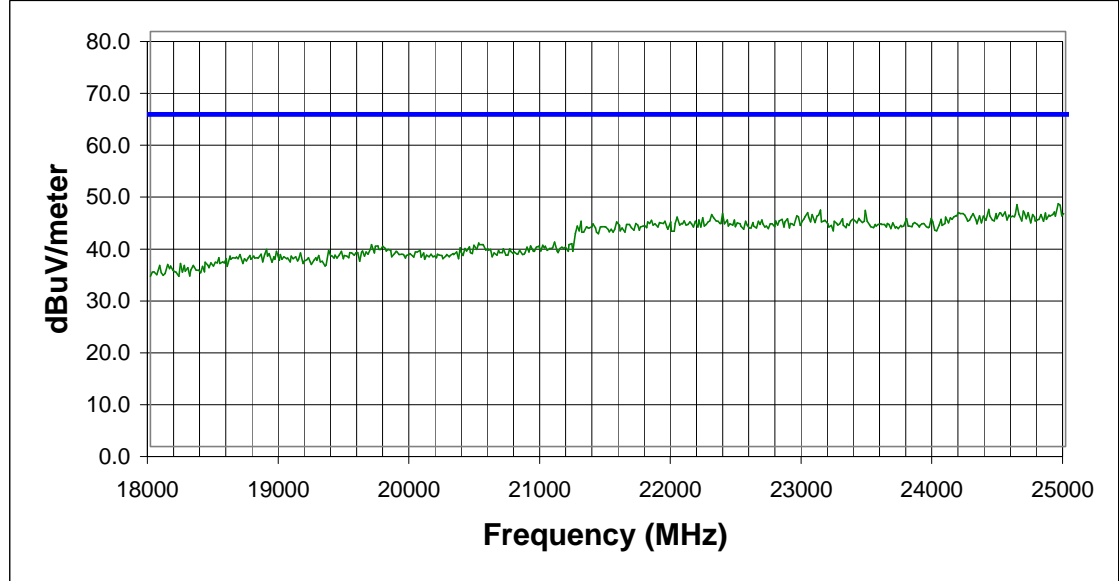
Comments: **No hop, high frequency, Microstrip 7.822 inch long, 0.115 inch wide, 0.062 inch high above ground plane, straight PCB etch, FR-4, terminated with shielded 50 ohm load.Top of Trace**

Run #17	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

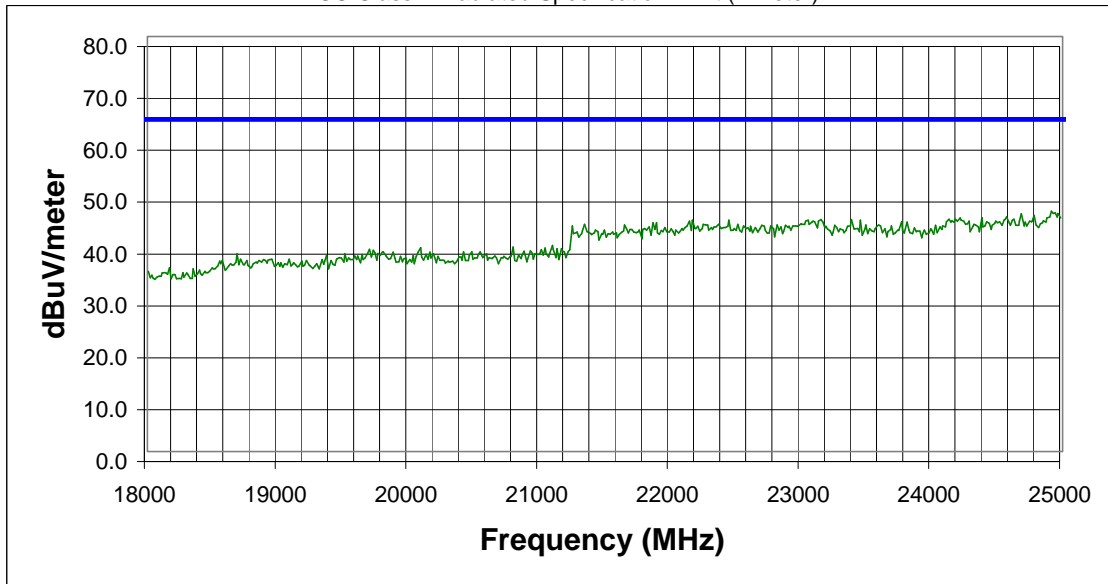
FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24943.240	36.6	Hor.	10.2	46.8	64.0	-17.2
24628.590	36.5	Hor.	10.1	46.6	64.0	-17.4
24957.230	36.3	Ver.	10.2	46.5	64.0	-17.5
24411.840	35.8	Ver.	9.9	45.7	64.0	-18.3
23125.270	35.6	Ver.	10.0	45.6	64.0	-18.4
23467.891	35.5	Hor.	10.0	45.5	64.0	-18.5
24677.539	35.3	Ver.	10.1	45.4	64.0	-18.6
24915.270	35.1	Hor.	10.1	45.2	64.0	-18.8
24537.699	35.1	Hor.	10.1	45.2	64.0	-18.8
24712.500	35.0	Hor.	10.1	45.1	64.0	-18.9
23027.381	35.0	Ver.	10.1	45.1	64.0	-18.9
24181.090	35.2	Hor.	9.9	45.1	64.0	-18.9
24992.188	34.9	Ver.	10.1	45.0	64.0	-19.0
24495.740	34.9	Hor.	10.1	45.0	64.0	-19.0
24502.730	34.9	Hor.	10.1	45.0	64.0	-19.0
24845.350	34.9	Ver.	10.1	45.0	64.0	-19.0
24195.080	35.0	Hor.	9.9	44.9	64.0	-19.1
22377.109	34.7	Ver.	10.2	44.9	64.0	-19.1
24292.971	35.0	Ver.	9.9	44.9	64.0	-19.1
24642.580	34.7	Hor.	10.1	44.8	64.0	-19.2

Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets				Rev 3.3 10/09/99
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00	
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01		
Customer Reference Number:	Software:	Power:		
Comments:	No hop, high frequency, Microstrip 7.822 inch long, 0.115 inch wide, 0.062 inch high above ground plane, straight PCB etch, FR-4, terminated with shielded 50 ohm load.Edge of Trace			
Run #18		Temperature (°C): 22	% Humidity: 34	
Test System				
Test Equipment				

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24915.270	36.2	Hor.	10.1	46.3	64.0	-17.7
24943.240	35.8	Ver.	10.2	46.0	64.0	-18.0
24964.221	35.7	Hor.	10.2	45.9	64.0	-18.1
24684.529	35.7	Hor.	10.1	45.8	64.0	-18.2
24782.420	35.4	Ver.	10.1	45.5	64.0	-18.5
24572.660	35.1	Ver.	10.1	45.2	64.0	-18.8
24383.869	35.2	Hor.	9.9	45.1	64.0	-18.9
24880.311	34.9	Hor.	10.1	45.0	64.0	-19.0
24985.199	34.8	Ver.	10.2	45.0	64.0	-19.0
24216.051	35.1	Ver.	9.9	45.0	64.0	-19.0
24628.590	34.7	Hor.	10.1	44.8	64.0	-19.2
24132.150	34.9	Ver.	9.9	44.8	64.0	-19.2
24181.090	34.9	Ver.	9.9	44.8	64.0	-19.2
24558.670	34.6	Ver.	10.1	44.7	64.0	-19.3
23153.240	34.7	Ver.	10.0	44.7	64.0	-19.3
23383.980	34.7	Hor.	10.0	44.7	64.0	-19.3
22167.340	34.5	Ver.	10.1	44.6	64.0	-19.4
23055.350	34.5	Hor.	10.1	44.6	64.0	-19.4
22447.029	34.4	Ver.	10.2	44.6	64.0	-19.4
23453.910	34.6	Ver.	10.0	44.6	64.0	-19.4

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

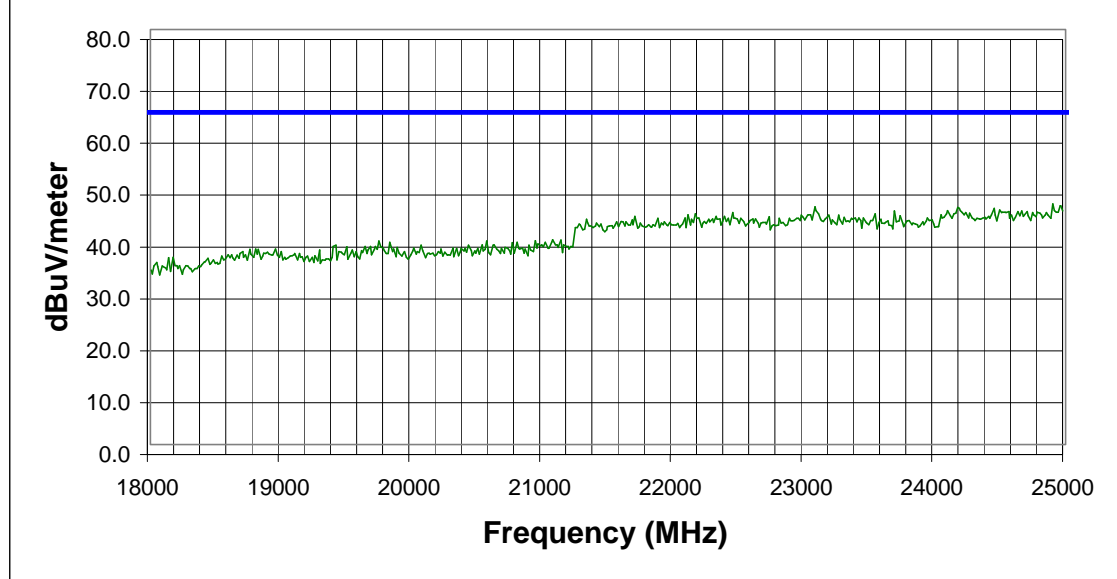
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high) Top of Trace			

Run #19	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24901.289	36.3	Ver.	10.1	46.4	64.0	-17.6
24957.230	35.8	Hor.	10.2	46.0	64.0	-18.0
23083.320	35.7	Ver.	10.1	45.8	64.0	-18.2
24174.100	35.8	Ver.	9.9	45.7	64.0	-18.3
24453.789	35.6	Hor.	9.9	45.5	64.0	-18.5
24188.090	35.6	Ver.	9.9	45.5	64.0	-18.5
24495.740	35.1	Ver.	10.1	45.2	64.0	-18.8
24097.189	35.2	Hor.	9.9	45.1	64.0	-18.9
24663.551	34.9	Hor.	10.1	45.0	64.0	-19.0
23691.641	35.1	Ver.	9.9	45.0	64.0	-19.0
24705.510	34.8	Ver.	10.1	44.9	64.0	-19.1
24565.660	34.8	Hor.	10.1	44.9	64.0	-19.1
24635.590	34.8	Ver.	10.1	44.9	64.0	-19.1
24782.420	34.7	Ver.	10.1	44.8	64.0	-19.2
24516.721	34.7	Ver.	10.1	44.8	64.0	-19.2
24747.461	34.6	Ver.	10.1	44.7	64.0	-19.3
22454.020	34.5	Ver.	10.2	44.7	64.0	-19.3
24852.340	34.6	Ver.	10.1	44.7	64.0	-19.3
24237.029	34.8	Hor.	9.9	44.7	64.0	-19.3
24265.000	34.7	Hor.	9.9	44.6	64.0	-19.4

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

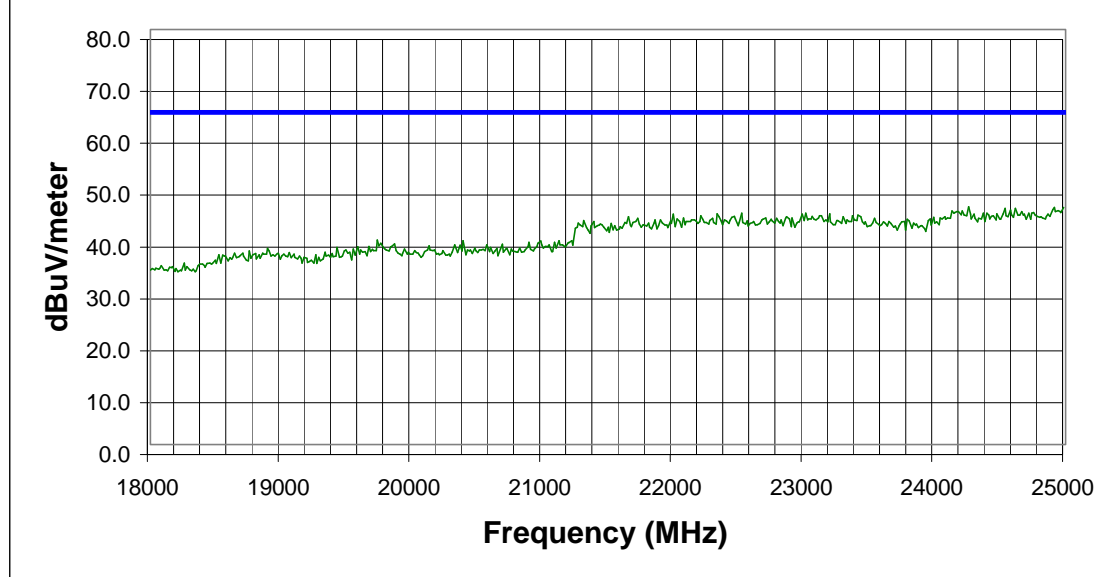
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached to 3 lambda (14.3 inch) coax that is attached to meandered microstrip (7.822 inch long, 0.115 inch wide, 0.062 inch high) Edge of Trace			

Run #20	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24258.010	35.9	Hor.	9.9	45.8	64.0	-18.2
24915.270	35.6	Hor.	10.1	45.7	64.0	-18.3
24985.199	35.5	Hor.	10.2	45.7	64.0	-18.3
24614.609	35.4	Ver.	10.1	45.5	64.0	-18.5
24537.699	35.4	Hor.	10.1	45.5	64.0	-18.5
24579.650	35.1	Hor.	10.1	45.2	64.0	-18.8
24943.240	34.9	Ver.	10.2	45.1	64.0	-18.9
24132.150	35.1	Hor.	9.9	45.0	64.0	-19.0
24209.061	35.1	Ver.	9.9	45.0	64.0	-19.0
24167.109	35.0	Ver.	9.9	44.9	64.0	-19.1
24663.551	34.8	Ver.	10.1	44.9	64.0	-19.1
24754.449	34.6	Ver.	10.1	44.7	64.0	-19.3
24719.490	34.5	Ver.	10.1	44.6	64.0	-19.4
24369.881	34.7	Ver.	9.9	44.6	64.0	-19.4
22523.949	34.4	Ver.	10.2	44.6	64.0	-19.4
24397.850	34.7	Ver.	9.9	44.6	64.0	-19.4
23013.400	34.5	Ver.	10.1	44.6	64.0	-19.4
24474.770	34.4	Hor.	10.1	44.5	64.0	-19.5
24523.711	34.4	Ver.	10.1	44.5	64.0	-19.5
22335.160	34.3	Ver.	10.2	44.5	64.0	-19.5

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

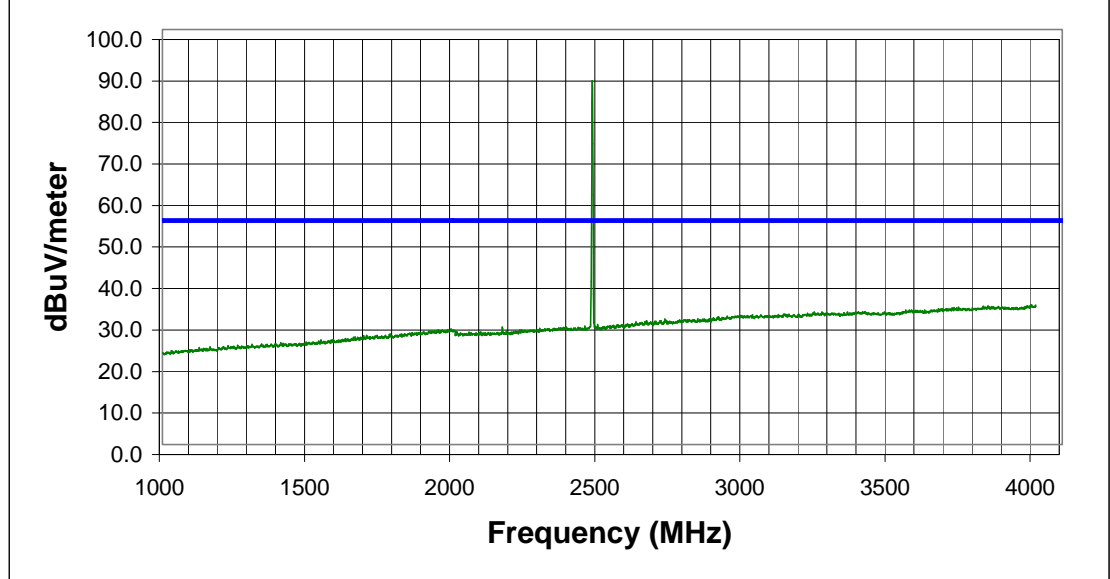
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Horizontal orientation			

Run #21	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBUV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBUV/meter)	Specification Limit (dBUV/meter)	Margin (dB)
2480.939	91.5	Hor.	-3.8	87.7	54.0	33.7
3992.159	31.5	Hor.	2.1	33.6	54.0	-20.4
3991.649	31.5	Hor.	2.1	33.6	54.0	-20.4
4008.990	31.5	Ver.	2.1	33.6	54.0	-20.4
3979.919	31.3	Ver.	2.1	33.4	54.0	-20.6
4005.930	31.3	Hor.	2.1	33.4	54.0	-20.6
3978.389	31.3	Ver.	2.1	33.4	54.0	-20.6
3844.257	31.7	Ver.	1.7	33.4	54.0	-20.6
3997.770	31.2	Ver.	2.1	33.3	54.0	-20.7
3827.426	31.7	Ver.	1.6	33.3	54.0	-20.7
3995.729	31.1	Ver.	2.1	33.2	54.0	-20.8
3858.027	31.5	Ver.	1.7	33.2	54.0	-20.8
3984.509	31.1	Ver.	2.1	33.2	54.0	-20.8
3982.979	31.1	Hor.	2.1	33.2	54.0	-20.8
3847.827	31.5	Ver.	1.7	33.2	54.0	-20.8
3972.269	31.2	Hor.	2.0	33.2	54.0	-20.8
3880.467	31.4	Ver.	1.8	33.2	54.0	-20.8
3879.447	31.5	Ver.	1.7	33.2	54.0	-20.8
3863.127	31.5	Hor.	1.7	33.2	54.0	-20.8
3835.076	31.4	Ver.	1.7	33.1	54.0	-20.9

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

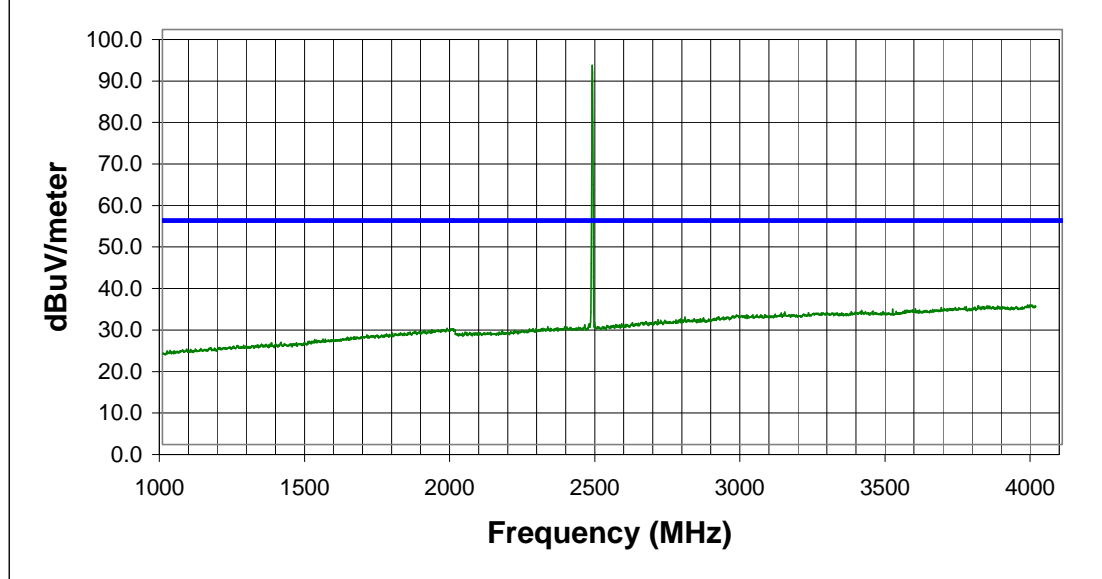
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/26/00
Manufacturer: Intel Corp.	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Vertical orientation			

Run #22	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
2480.939	95.2	Ver.	-3.8	91.4	54.0	37.4
3981.449	31.5	Hor.	2.1	33.6	54.0	-20.4
3995.219	31.5	Hor.	2.1	33.6	54.0	-20.4
3988.589	31.5	Hor.	2.1	33.6	54.0	-20.4
3992.159	31.4	Ver.	2.1	33.5	54.0	-20.5
3811.616	31.8	Ver.	1.7	33.5	54.0	-20.5
3840.687	31.7	Hor.	1.7	33.4	54.0	-20.6
4006.950	31.3	Hor.	2.1	33.4	54.0	-20.6
3998.280	31.3	Ver.	2.1	33.4	54.0	-20.6
3809.576	31.7	Hor.	1.7	33.4	54.0	-20.6
3982.469	31.2	Ver.	2.1	33.3	54.0	-20.7
3877.407	31.6	Ver.	1.7	33.3	54.0	-20.7
3849.357	31.6	Ver.	1.7	33.3	54.0	-20.7
3984.509	31.2	Hor.	2.1	33.3	54.0	-20.7
3845.787	31.6	Hor.	1.7	33.3	54.0	-20.7
3976.859	31.2	Ver.	2.1	33.3	54.0	-20.7
3971.759	31.2	Hor.	2.0	33.2	54.0	-20.8
4008.990	31.1	Hor.	2.1	33.2	54.0	-20.8
3838.646	31.5	Hor.	1.7	33.2	54.0	-20.8
3769.795	31.7	Hor.	1.5	33.2	54.0	-20.8

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

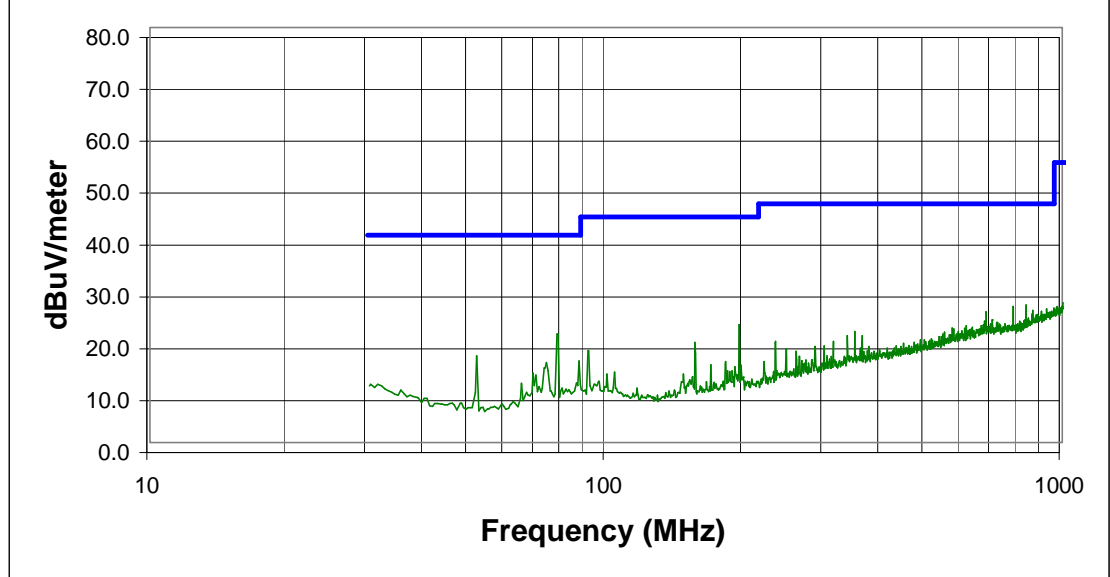
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Vertical orientation			

Run #23	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.125	42.7	Hor.	-21.8	20.9	40.0	-19.1
832.460	35.1	Hor.	-8.6	26.5	46.0	-19.5
780.278	35.4	Hor.	-9.2	26.2	46.0	-19.8
958.123	32.1	Ver.	-6.2	25.9	46.0	-20.1
924.045	32.6	Hor.	-6.8	25.8	46.0	-20.2
862.278	33.4	Ver.	-7.9	25.5	46.0	-20.5
899.906	32.4	Ver.	-7.1	25.3	46.0	-20.7
948.184	31.6	Hor.	-6.3	25.3	46.0	-20.7
195.824	42.9	Hor.	-20.2	22.7	43.5	-20.8
681.238	34.6	Ver.	-9.4	25.2	46.0	-20.8
936.824	31.7	Hor.	-6.6	25.1	46.0	-20.9
941.794	31.7	Hor.	-6.6	25.1	46.0	-20.9
927.595	31.7	Hor.	-6.7	25.0	46.0	-21.0
929.725	31.7	Hor.	-6.7	25.0	46.0	-21.0
946.054	31.3	Hor.	-6.3	25.0	46.0	-21.0
931.144	31.5	Hor.	-6.6	24.9	46.0	-21.1
858.729	32.8	Hor.	-8.0	24.8	46.0	-21.2
906.296	31.7	Ver.	-7.0	24.7	46.0	-21.3
943.214	31.3	Hor.	-6.6	24.7	46.0	-21.3
938.954	31.3	Ver.	-6.6	24.7	46.0	-21.3

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

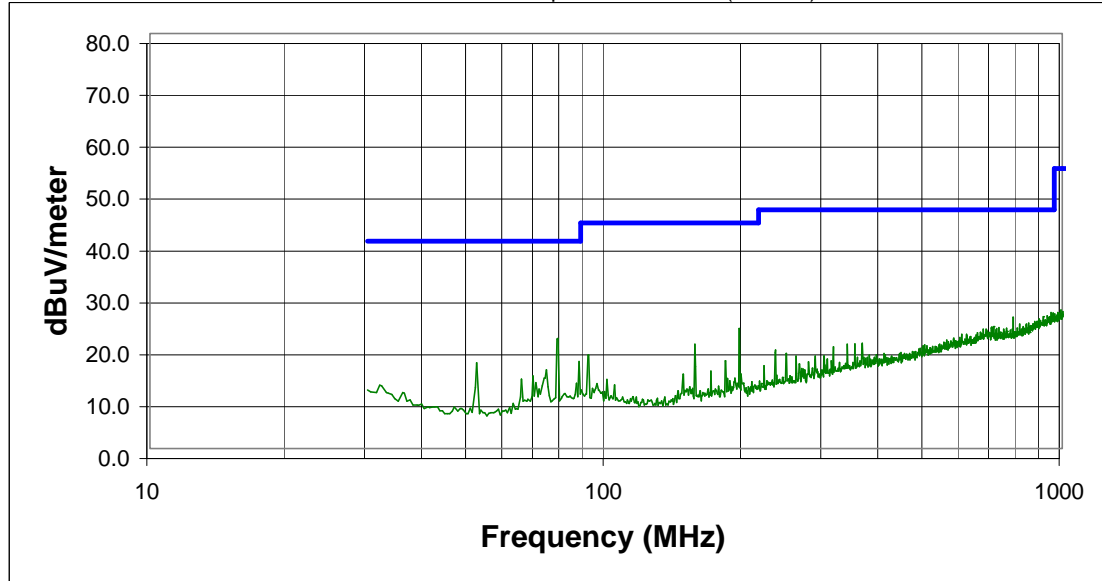
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Horizontal orientation			

Run #24	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
78.400	43.0	Hor.	-21.8	21.2	40.0	-18.8
945.344	32.6	Ver.	-6.4	26.2	46.0	-19.8
955.283	32.3	Hor.	-6.2	26.1	46.0	-19.9
949.604	32.1	Hor.	-6.3	25.8	46.0	-20.2
195.824	43.3	Hor.	-20.2	23.1	43.5	-20.4
927.595	32.3	Hor.	-6.7	25.6	46.0	-20.4
959.543	31.8	Hor.	-6.2	25.6	46.0	-20.4
947.119	31.8	Ver.	-6.3	25.5	46.0	-20.5
938.599	32.0	Hor.	-6.6	25.4	46.0	-20.6
908.781	32.3	Ver.	-6.9	25.4	46.0	-20.6
951.023	31.6	Hor.	-6.3	25.3	46.0	-20.7
931.144	31.9	Ver.	-6.6	25.3	46.0	-20.7
780.278	34.5	Hor.	-9.2	25.3	46.0	-20.7
942.149	31.6	Ver.	-6.6	25.0	46.0	-21.0
889.967	32.4	Hor.	-7.4	25.0	46.0	-21.0
958.478	31.2	Hor.	-6.2	25.0	46.0	-21.0
951.733	31.3	Ver.	-6.3	25.0	46.0	-21.0
934.694	31.5	Ver.	-6.6	24.9	46.0	-21.1
917.655	31.7	Hor.	-6.9	24.8	46.0	-21.2
896.356	31.9	Ver.	-7.2	24.7	46.0	-21.3

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

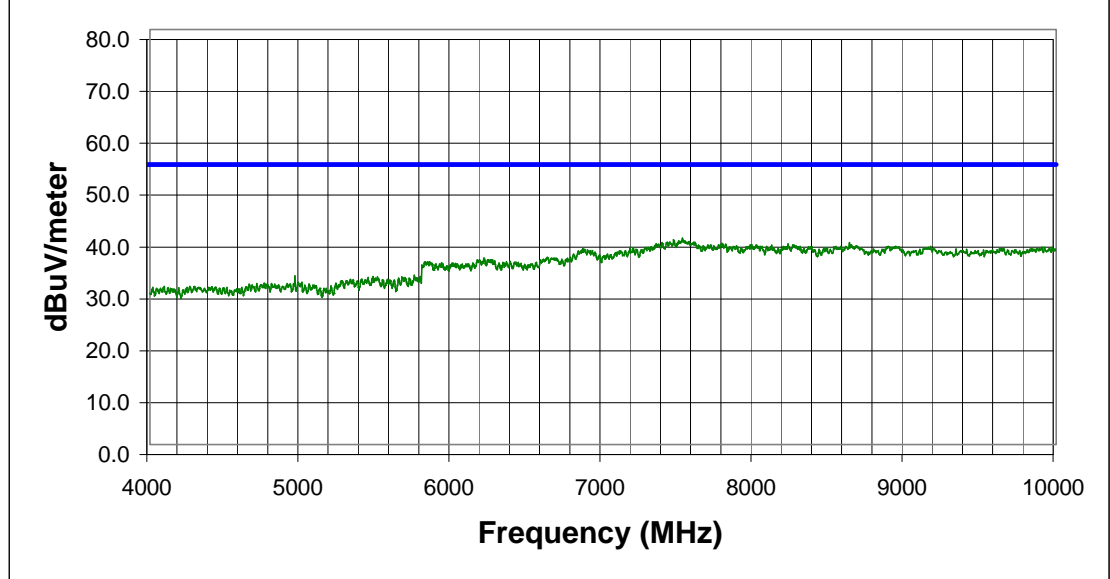
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Horizontal orientation			

Run #25	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBUV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBUV/meter)	Specification Limit (dBUV/meter)	Margin (dB)
7525.000	29.8	Ver.	10.0	39.8	54.0	-14.2
7467.000	29.7	Hor.	9.8	39.5	54.0	-14.5
7530.000	29.4	Ver.	10.0	39.4	54.0	-14.6
7470.000	29.5	Hor.	9.8	39.3	54.0	-14.7
7523.000	29.3	Hor.	10.0	39.3	54.0	-14.7
7500.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7540.000	29.3	Ver.	9.9	39.2	54.0	-14.8
7567.000	29.1	Hor.	10.0	39.1	54.0	-14.9
7512.000	29.1	Ver.	10.0	39.1	54.0	-14.9
7425.000	29.5	Ver.	9.5	39.0	54.0	-15.0
7537.000	29.1	Ver.	9.9	39.0	54.0	-15.0
7518.000	29.0	Ver.	10.0	39.0	54.0	-15.0
7507.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7440.000	29.4	Ver.	9.6	39.0	54.0	-15.0
7550.000	29.0	Ver.	10.0	39.0	54.0	-15.0
7547.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7563.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7599.000	29.0	Hor.	10.0	39.0	54.0	-15.0
7607.000	29.1	Ver.	9.9	39.0	54.0	-15.0
7494.000	28.9	Ver.	10.0	38.9	54.0	-15.1

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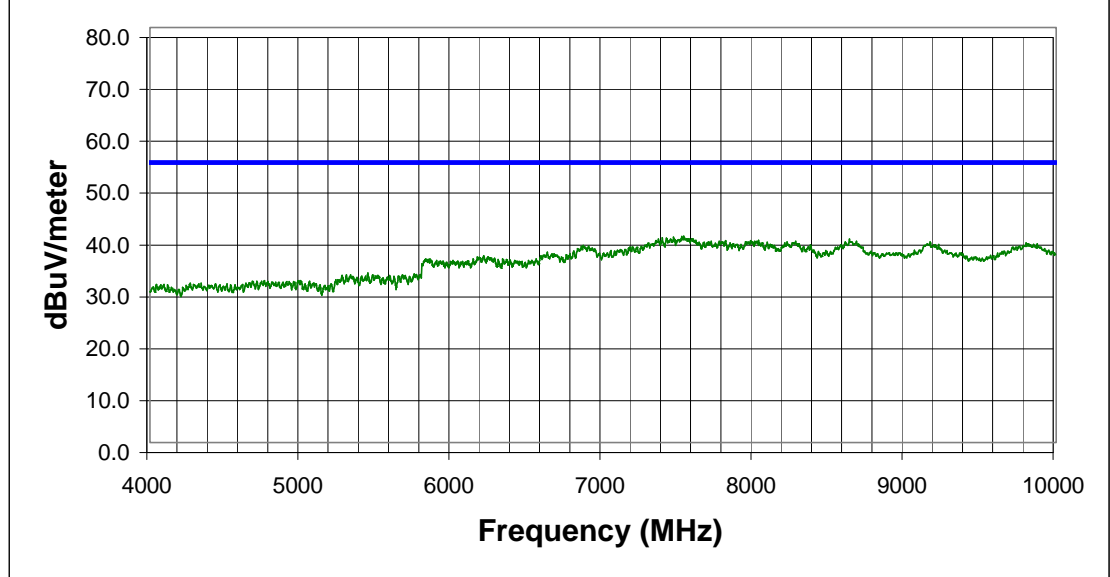
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corp.	Test Engineer: Greg Kiemel	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B directly attached to Ambler module using shortest coax (approx. 0.5 inches, including connector). Vertical orientation			

Run #26	Temperature (°C): 22	% Humidity: 49
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (3 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
7533.000	29.8	Ver.	10.0	39.8	54.0	-14.2
7521.000	29.7	Ver.	10.0	39.7	54.0	-14.3
7537.000	29.7	Hor.	9.9	39.6	54.0	-14.4
7467.000	29.8	Hor.	9.8	39.6	54.0	-14.4
7393.000	30.1	Ver.	9.4	39.5	54.0	-14.5
7420.000	29.9	Hor.	9.5	39.4	54.0	-14.6
7589.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7554.000	29.3	Ver.	10.0	39.3	54.0	-14.7
7517.000	29.3	Hor.	10.0	39.3	54.0	-14.7
7563.000	29.3	Hor.	10.0	39.3	54.0	-14.7
7598.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7366.000	29.9	Hor.	9.3	39.2	54.0	-14.8
7557.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7548.000	29.2	Hor.	10.0	39.2	54.0	-14.8
7473.000	29.4	Ver.	9.8	39.2	54.0	-14.8
7573.000	29.2	Ver.	10.0	39.2	54.0	-14.8
7525.000	29.2	Hor.	10.0	39.2	54.0	-14.8
8632.000	28.8	Hor.	10.4	39.2	54.0	-14.8
7446.000	29.5	Hor.	9.7	39.2	54.0	-14.8
7477.000	29.3	Hor.	9.8	39.1	54.0	-14.9

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Northwest EMC, Inc., Radiated and Conducted Emissions Data Sheets

EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

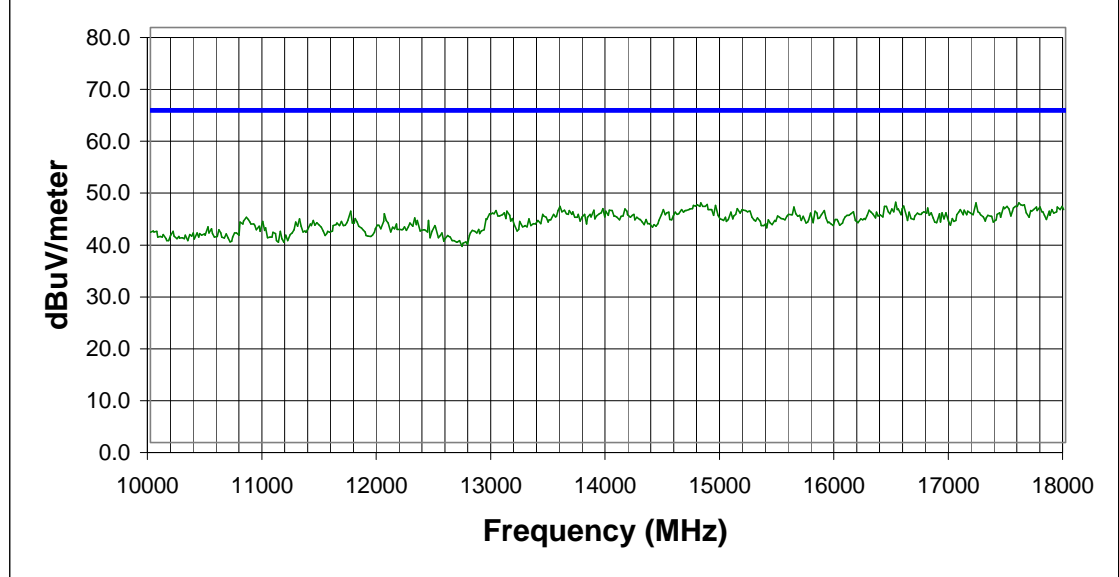
Comments: **No hop, high frequency, Antenna B attached directly to Ambler module using shortest coax (approx. 0.5 inches, including connector).
Vertical orientation**

Run #27	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
16513.631	34.4	Ver.	11.9	46.3	64.0	-17.7
17216.949	33.3	Ver.	12.9	46.2	64.0	-17.8
14811.300	33.7	Ver.	12.5	46.2	64.0	-17.8
17592.580	31.6	Hor.	14.6	46.2	64.0	-17.8
14867.240	33.4	Ver.	12.5	45.9	64.0	-18.1
17640.529	31.1	Hor.	14.7	45.8	64.0	-18.2
14779.330	33.3	Hor.	12.5	45.8	64.0	-18.2
14747.360	33.2	Hor.	12.5	45.7	64.0	-18.3
14939.170	33.3	Hor.	12.4	45.7	64.0	-18.3
16585.561	33.7	Ver.	11.9	45.6	64.0	-18.4
17968.211	29.7	Hor.	15.8	45.5	64.0	-18.5
16433.711	33.8	Hor.	11.7	45.5	64.0	-18.5
16417.730	33.7	Ver.	11.8	45.5	64.0	-18.5
17488.680	31.3	Hor.	14.2	45.5	64.0	-18.5
17560.609	31.1	Ver.	14.4	45.5	64.0	-18.5
13580.500	33.6	Hor.	11.9	45.5	64.0	-18.5
17456.711	31.4	Hor.	14.0	45.4	64.0	-18.6
17776.400	30.2	Ver.	15.2	45.4	64.0	-18.6
15626.500	34.2	Ver.	11.2	45.4	64.0	-18.6
17744.430	30.4	Ver.	15.0	45.4	64.0	-18.6

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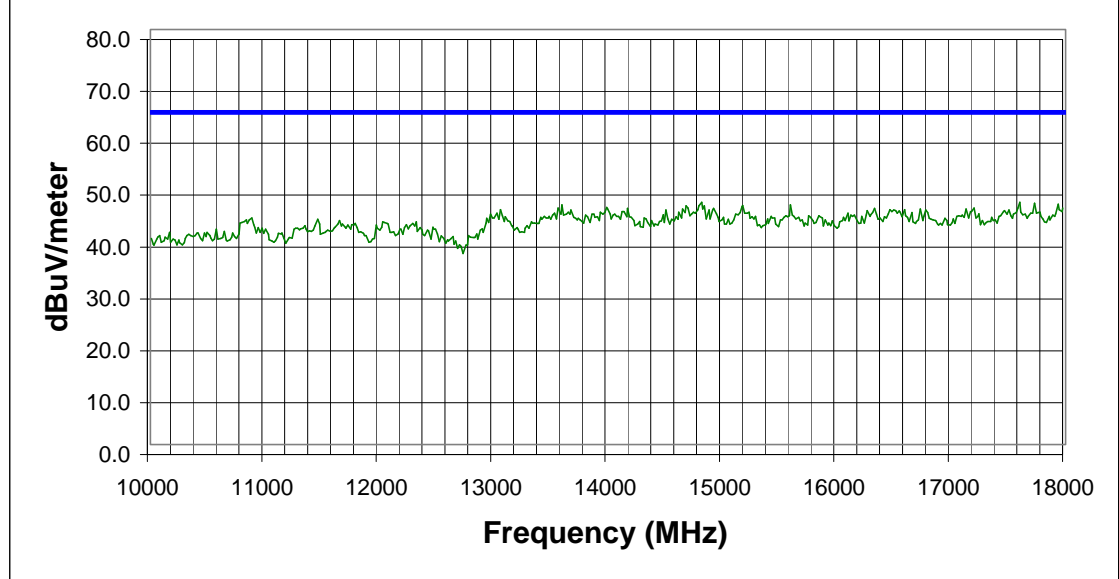
EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	
Comments: No hop, high frequency, Antenna B attached directly to Ambler module using shortest coax (approx. 0.5 inches, including connector). Horizontal orientation			

Run #28	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
14819.290	34.2	Ver.	12.5	46.7	64.0	-17.3
17600.570	32.1	Hor.	14.6	46.7	64.0	-17.3
17728.449	31.5	Ver.	15.0	46.5	64.0	-17.5
17936.240	30.6	Hor.	15.7	46.3	64.0	-17.7
15594.530	34.9	Hor.	11.3	46.2	64.0	-17.8
13596.480	34.3	Hor.	11.9	46.2	64.0	-17.8
15178.940	34.2	Ver.	11.9	46.1	64.0	-17.9
14843.270	33.5	Hor.	12.5	46.0	64.0	-18.0
14683.420	33.4	Ver.	12.6	46.0	64.0	-18.0
13988.100	33.3	Hor.	12.4	45.7	64.0	-18.3
17976.199	29.8	Hor.	15.8	45.6	64.0	-18.4
13564.520	33.8	Ver.	11.8	45.6	64.0	-18.4
17200.961	32.8	Ver.	12.8	45.6	64.0	-18.4
17584.590	31.1	Ver.	14.5	45.6	64.0	-18.4
14923.190	33.0	Hor.	12.5	45.5	64.0	-18.5
16329.810	33.8	Ver.	11.7	45.5	64.0	-18.5
14171.920	33.1	Hor.	12.4	45.5	64.0	-18.5
14651.450	32.8	Ver.	12.6	45.4	64.0	-18.6
16729.420	33.5	Hor.	11.9	45.4	64.0	-18.6
17129.029	32.9	Hor.	12.5	45.4	64.0	-18.6

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EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

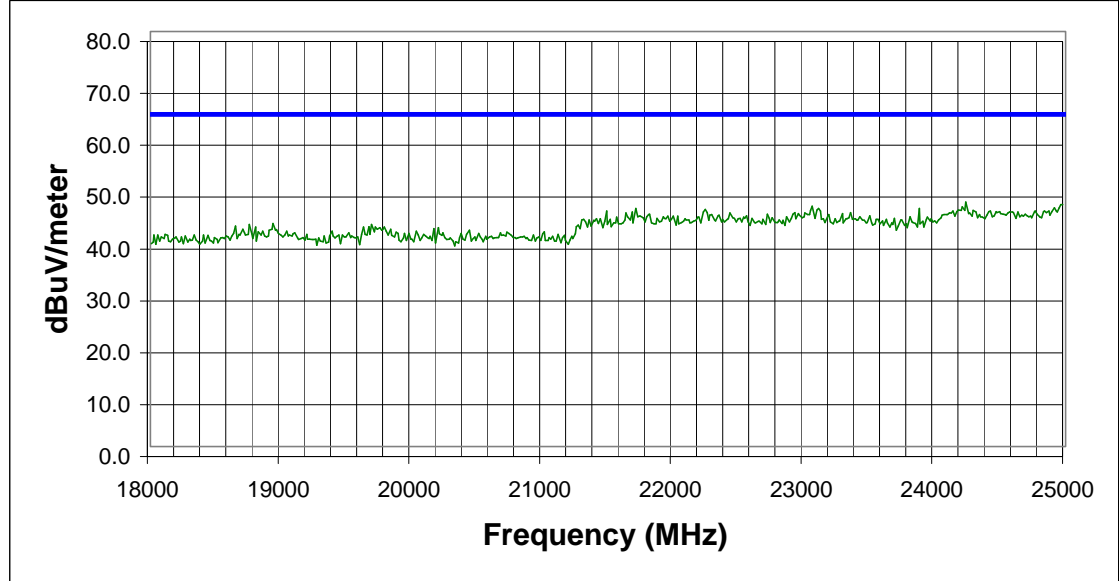
Comments: **No hop, high frequency, Antenna B attached directly to Ambler module using shortest coax (approx. 0.5 inches, including connector). Horizontal orientation**

Run #29	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24237.029	37.2	Hor.	9.9	47.1	64.0	-16.9
24964.221	36.4	Ver.	10.2	46.6	64.0	-17.4
23062.340	36.2	Hor.	10.1	46.3	64.0	-17.7
24209.061	36.3	Ver.	9.9	46.2	64.0	-17.8
24915.270	35.9	Ver.	10.1	46.0	64.0	-18.0
24950.230	35.8	Hor.	10.2	46.0	64.0	-18.0
21712.850	35.9	Hor.	10.0	45.9	64.0	-18.1
23111.289	35.9	Hor.	10.0	45.9	64.0	-18.1
23880.430	36.0	Hor.	9.9	45.9	64.0	-18.1
22244.260	35.5	Hor.	10.2	45.7	64.0	-18.3
24181.090	35.7	Hor.	9.9	45.6	64.0	-18.4
23097.301	35.6	Ver.	10.0	45.6	64.0	-18.4
24292.971	35.6	Ver.	9.9	45.5	64.0	-18.5
21489.100	35.5	Ver.	9.9	45.4	64.0	-18.6
24139.141	35.5	Hor.	9.9	45.4	64.0	-18.6
24873.320	35.3	Ver.	10.1	45.4	64.0	-18.6
24768.439	35.3	Hor.	10.1	45.4	64.0	-18.6
24838.359	35.3	Ver.	10.1	45.4	64.0	-18.6
24425.820	35.5	Hor.	9.9	45.4	64.0	-18.6
24467.770	35.2	Hor.	10.1	45.3	64.0	-18.7

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EUT: Ambler Bluetooth	Serial Number: 1267	Job Number: INSC0007	Date: 09/27/00
Manufacturer: Intel Corporation	Test Engineer: Rod Peloquin	Job Site: EV01	
Customer Reference Number:	Software:	Power:	

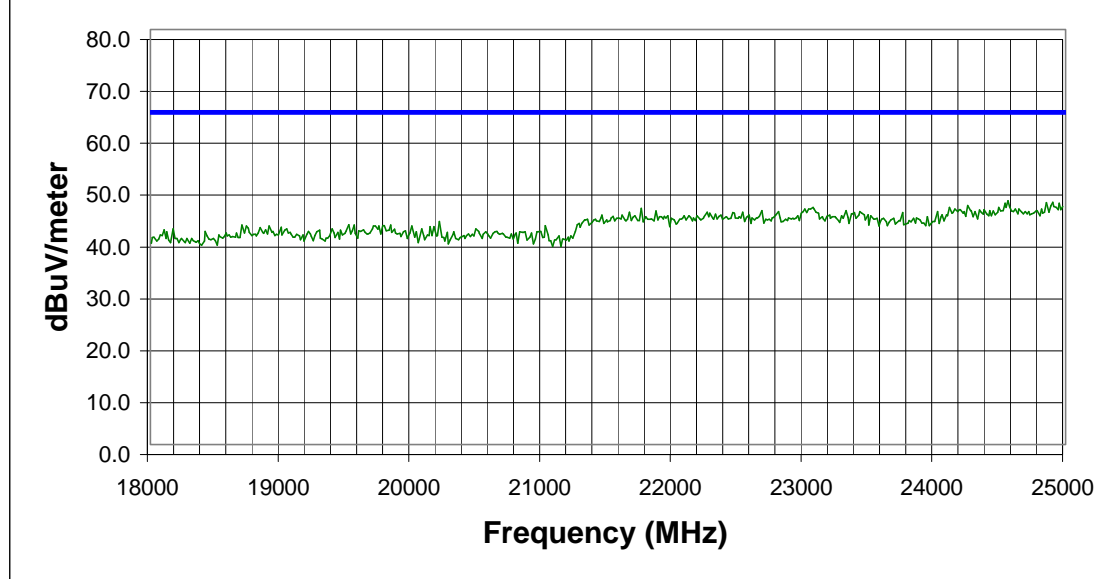
Comments: **No hop, high frequency, Antenna B attached directly to Ambler module using shortest coax (approx. 0.5 inches, including connector).
Vertical orientation**

Run #30	Temperature (°C): 22	% Humidity: 34
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Test System

Test Equipment

FCC Class B Radiated Specification Limit (1 meter)



Frequency (MHz)	Meter Reading (dBuV)	Antenna Polarity	Correction Factor (dB/m)	Adjusted Level (dBuV/meter)	Specification Limit (dBuV/meter)	Margin (dB)
24558.670	36.9	Hor.	10.1	47.0	64.0	-17.0
24901.289	36.6	Hor.	10.1	46.7	64.0	-17.3
24852.340	36.5	Ver.	10.1	46.6	64.0	-17.4
24950.230	36.3	Ver.	10.2	46.5	64.0	-17.5
24251.020	36.2	Hor.	9.9	46.1	64.0	-17.9
24978.199	35.7	Ver.	10.2	45.9	64.0	-18.1
24572.660	35.7	Ver.	10.1	45.8	64.0	-18.2
24488.750	35.6	Hor.	10.1	45.7	64.0	-18.3
23069.340	35.6	Ver.	10.1	45.7	64.0	-18.3
24111.170	35.8	Ver.	9.9	45.7	64.0	-18.3
21754.801	35.5	Hor.	10.0	45.5	64.0	-18.5
24817.381	35.3	Hor.	10.1	45.4	64.0	-18.6
23034.381	35.3	Ver.	10.1	45.4	64.0	-18.6
23006.410	35.3	Hor.	10.1	45.4	64.0	-18.6
24153.131	35.5	Hor.	9.9	45.4	64.0	-18.6
24614.609	35.3	Ver.	10.1	45.4	64.0	-18.6
24642.580	35.3	Ver.	10.1	45.4	64.0	-18.6
24188.090	35.4	Ver.	9.9	45.3	64.0	-18.7
24376.881	35.4	Ver.	9.9	45.3	64.0	-18.7
24341.910	35.3	Hor.	9.9	45.2	64.0	-18.8