

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel LO

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
96.93	V	57.63	-17.89	39.74	43.5	-3.76	Peak	90	1.0
482.99	V	49.23	-6.52	42.71	46.0	-3.29	Peak	110	1.0
800.18	V	42.66	0.73	43.39	46..0	-2.61	Q.P	140	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel LO

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	52.66	-6.53	46.13	74	-27.87	Peak	192	1.0

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel MID

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
96.93	V	57.96	-17.89	40.07	43.5	-3.43	Peak	100	1.0
482.99	V	48.73	-6.52	42.21	46.0	-3.79	Peak	110	1.0
803.09	V	42.96	0.97	43.93	46.0	-2.07	Q.P	148	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel MID

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	52.13	-6.53	45.60	74	-28.40	Peak	192	1.0

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel HI

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
482.99	V	47.99	-6.52	41.38	46	-4.62	Peak	130	1.0
803.99	V	42.11	0.97	43.08	46	-2.92	Q.P	150	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel HI

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	51.96	-6.53	45.43	74	-28.57	Peak	196	1.0

Antenna type 2:

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel LO

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
482.99	V	50.02	-6.52	43.50	46	-2.50	Q.P	100	1.0
640.13	V	44.13	-2.10	42.03	46	-3.97	Peak	298	1.5
800.18	V	43.27	0.73	44.00	46	-2.00	Q.P	125	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel LO

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	52.34	-6.53	45.81	74	-28.19	Peak	210	1.0
2039	V	53.42	-2.50	50.92	74	-23.08	Peak	185	1.0

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel MID

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
482.99	V	50.00	-6.52	43.48	46	-2.52	Q.P	110	1.0
640.13	V	44.22	-2.10	42.12	46	-3.88	Peak	292	1.5
800.18	V	43.22	0.73	43.95	46	-2.05	Q.P	130	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel MID

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	H	50.55	-6.03	44.52	74	-29.48	Peak	195	1.0
1273	V	53.41	-6.53	46.88	74	-27.12	Peak	205	1.0
2063	V	53.25	-2.44	50.81	74	-23.19	Peak	192	1.0

Modulation Standard: IEEE 802.11b

a) Emission frequencies below 1 GHz Channel HI

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
482.99	V	49.69	-6.52	43.17	46	-2.83	Q.P	105	1.0
800.18	V	43.85	0.73	44.59	46	-1.41	Q.P	140	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel HI

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	H	51.63	-6.03	45.60	74	-28.40	Peak	196	1.0
1273	V	52.08	-6.53	45.55	74	-28.45	Peak	190	1.0
2098	V	52.64	-2.33	50.31	74	-23.69	Peak	200	1.0

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel LO

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
96.93	V	57.96	-17.89	40.07	43.5	-3.43	Peak	90	1.0
482.99	V	49.95	-6.52	43.43	46.0	-2.57	Q.P	110	1.0
800.18	V	43.08	0.73	43.81	46..0	-2.19	Q.P	140	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel LO

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	52.08	-6.53	45.55	74	-28.45	Peak	192	1.0

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel MID

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
96.93	V	58.45	-17.89	40.56	43.5	-2.94	Q.P	100	1.0
482.99	V	49.60	-6.52	43.08	46.0	-2.92	Q.P	110	1.0
803.09	V	43.24	0.97	44.21	46.0	-1.79	Q.P	148	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel MID

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	51.58	-6.53	45.05	74	-28.95	Peak	192	1.0

Modulation Standard: IEEE 802.11g

a) Emission frequencies below 1 GHz Channel HI

Test Date: Sep. 27, 2004 Temperature: 27 Humidity: 58%

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
482.99	V	48.57	-6.52	42.05	46	-3.95	Peak	130	1.0
803.99	V	42.79	0.97	43.76	46	-2.24	Q.P	150	1.0

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss – Amplifier

b) Emission frequencies above 1 GHz Channel HI

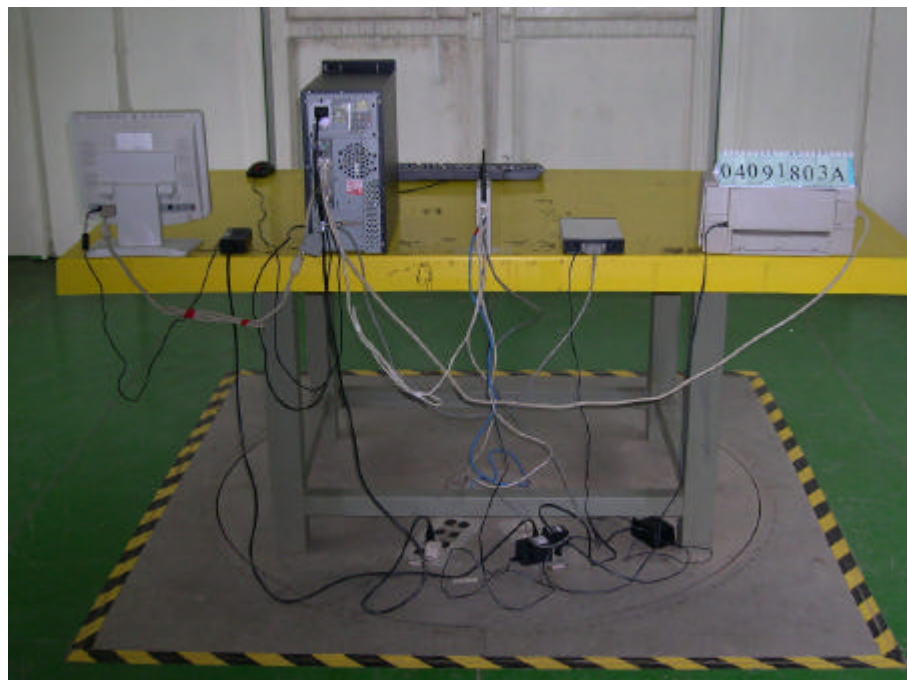
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1273	V	51.31	-6.53	44.78	74	-29.22	Peak	196	1.0

4.3.3. Photographs of Radiated Emission Test

FRONT VIEW



REAR VIEW



4.4. 6dB Bandwidth Measurement Data

Antenna type 1:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

- | | | |
|--|------------|-----|
| a) Channel 01: 6dB Emission Bandwidth is | <u>8.5</u> | MHz |
| b) Channel 06: 6dB Emission Bandwidth is | <u>8.1</u> | MHz |
| c) Channel 11: 6dB Emission Bandwidth is | <u>8.5</u> | MHz |

(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

- | | | |
|--|-------------|-----|
| a) Channel 01: 6dB Emission Bandwidth is | <u>15.3</u> | MHz |
| b) Channel 06: 6dB Emission Bandwidth is | <u>15.9</u> | MHz |
| c) Channel 11: 6dB Emission Bandwidth is | <u>15.3</u> | MHz |

Antenna type 2:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

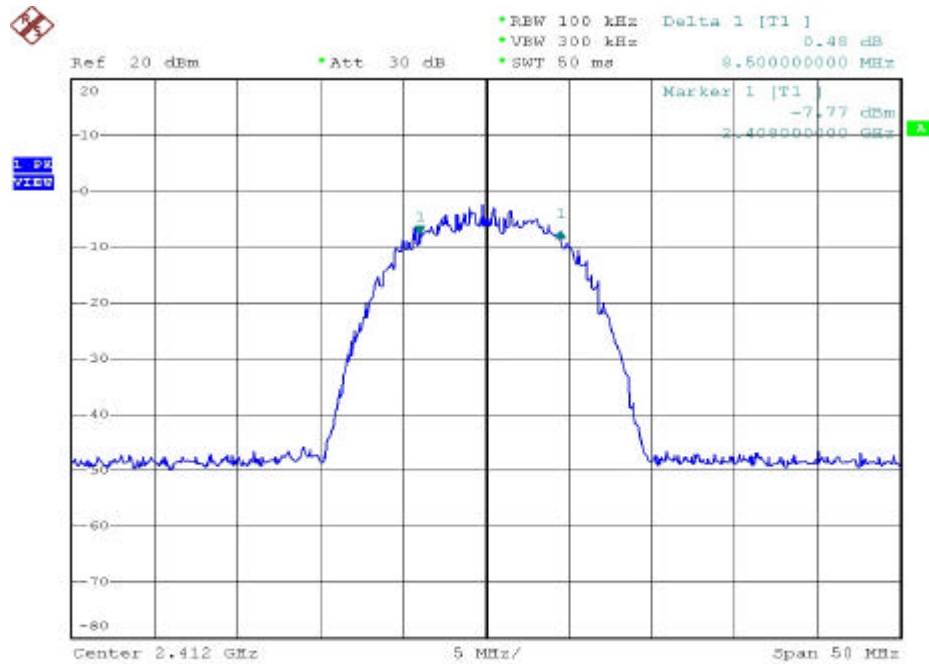
- | | | |
|--|------------|-----|
| a) Channel 01: 6dB Emission Bandwidth is | <u>8.0</u> | MHz |
| b) Channel 06: 6dB Emission Bandwidth is | <u>8.1</u> | MHz |
| c) Channel 11: 6dB Emission Bandwidth is | <u>7.5</u> | MHz |

(2) Modulation Standard: IEEE 802.11g

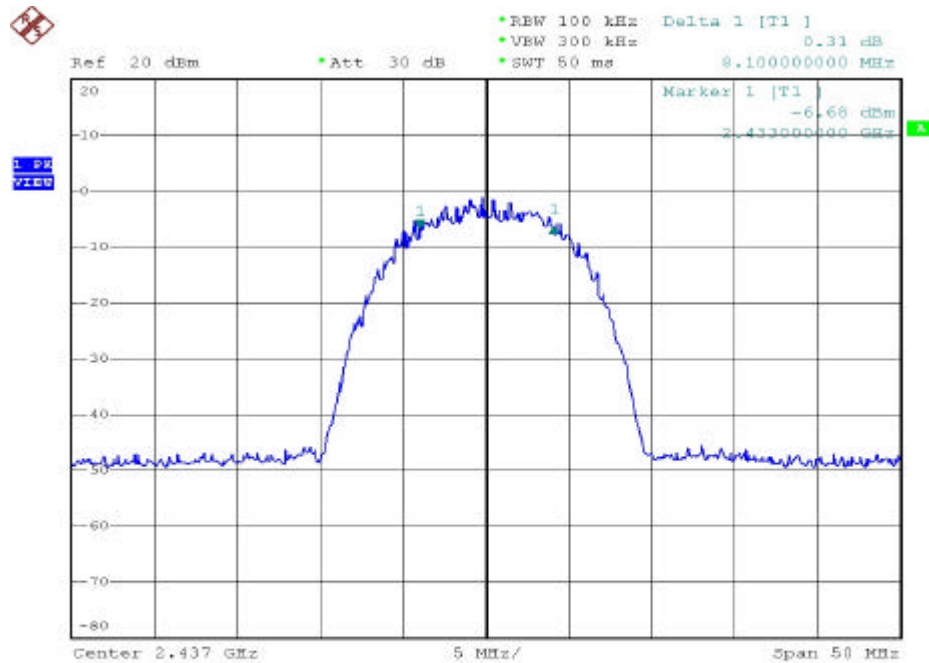
Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

- | | | |
|--|-------------|-----|
| a) Channel 01: 6dB Emission Bandwidth is | <u>15.7</u> | MHz |
| b) Channel 06: 6dB Emission Bandwidth is | <u>15.5</u> | MHz |
| c) Channel 11: 6dB Emission Bandwidth is | <u>15.6</u> | MHz |

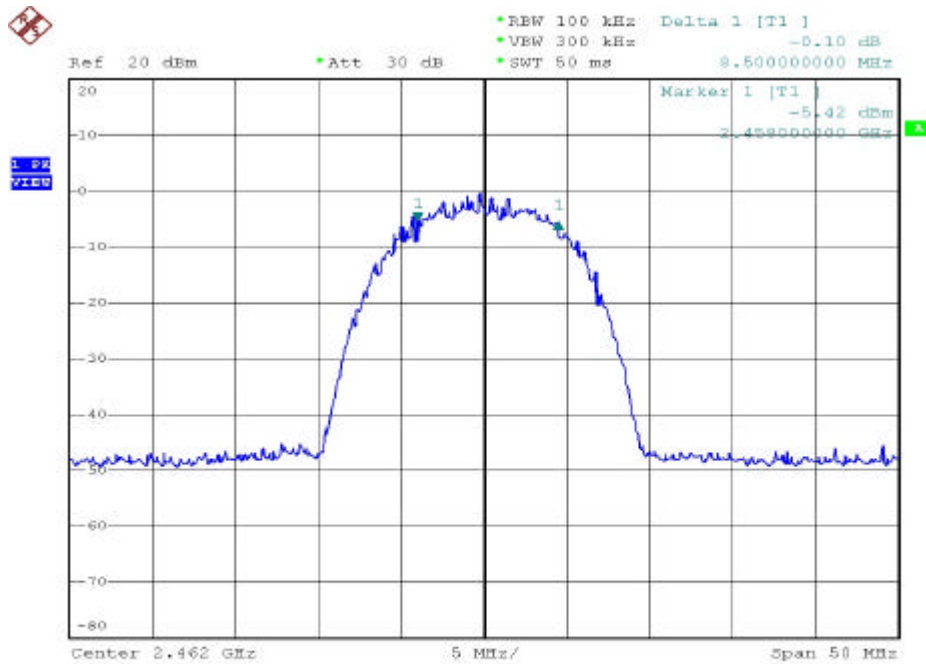
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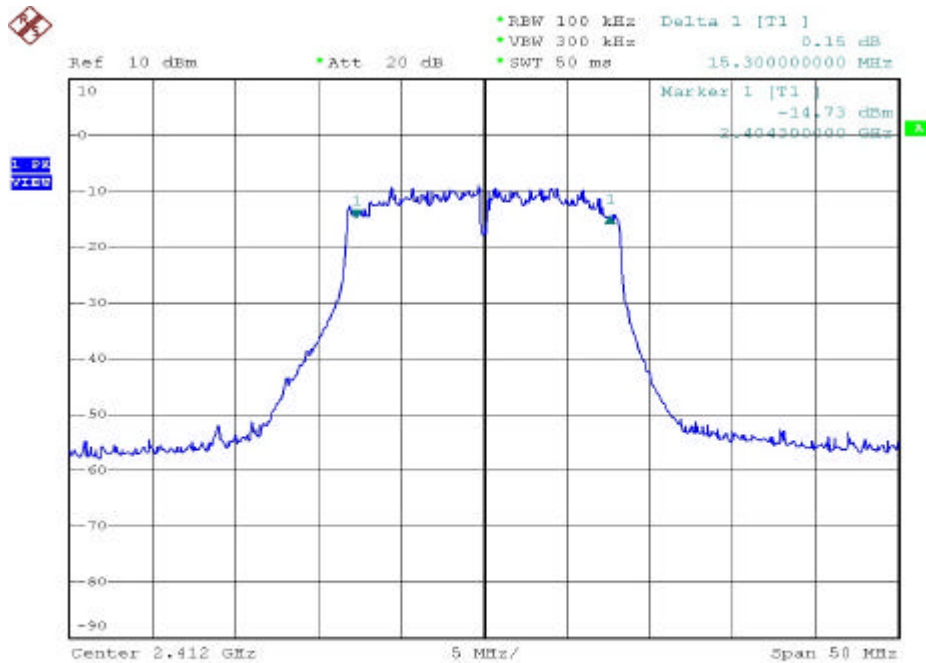
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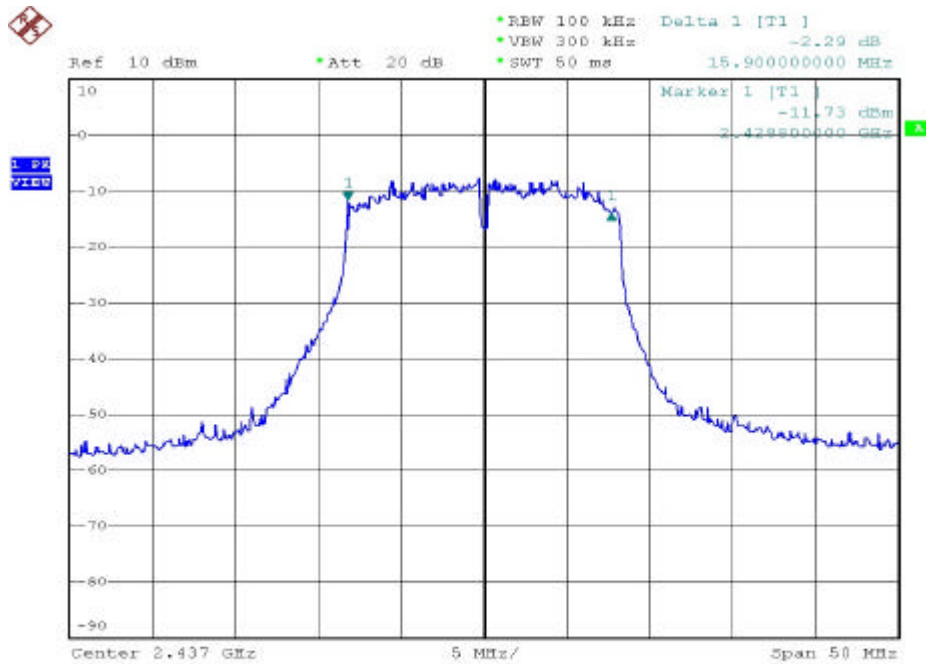
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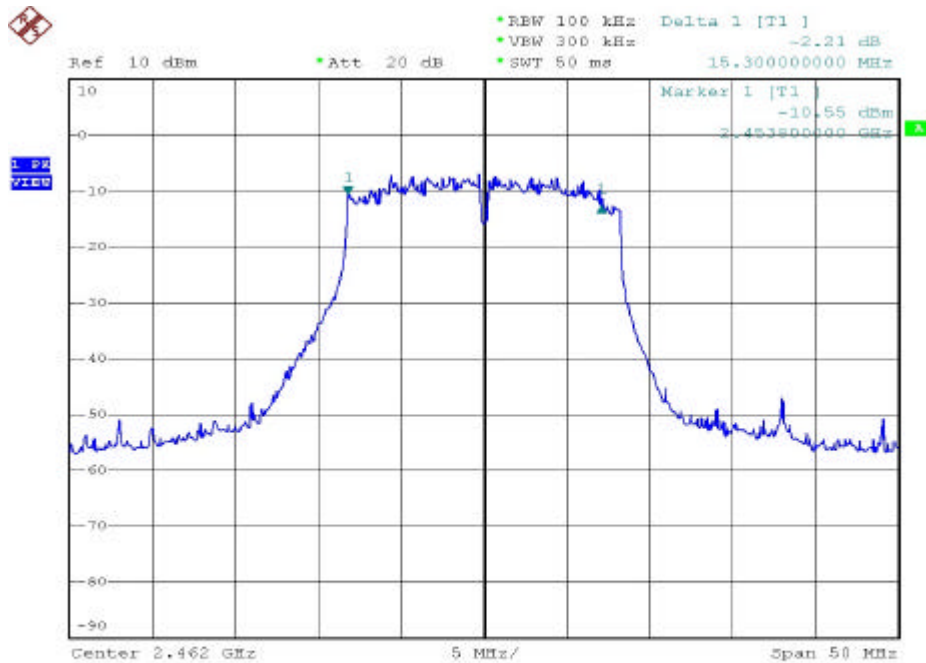
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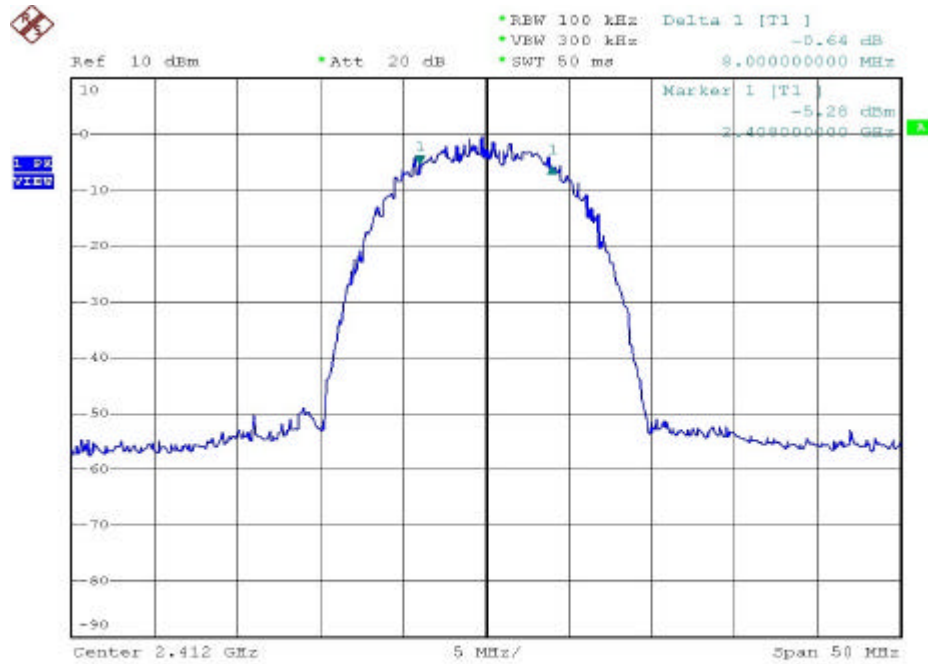


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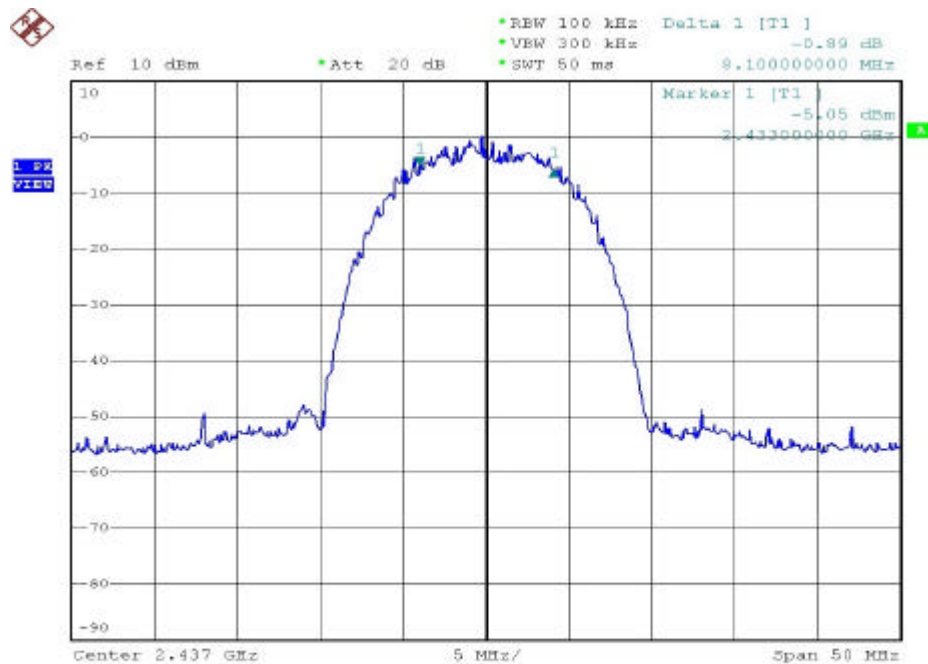


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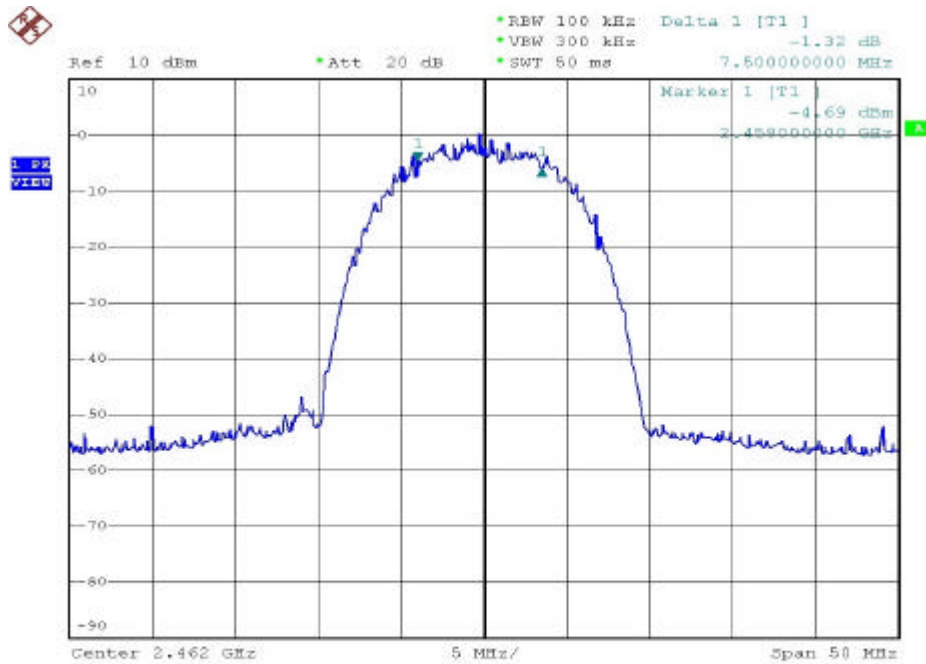
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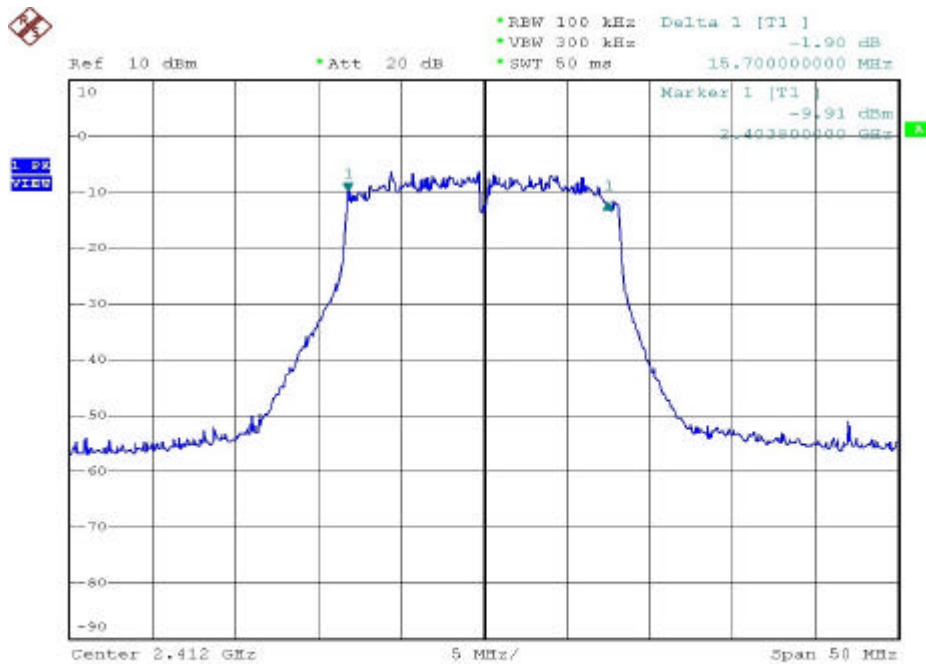
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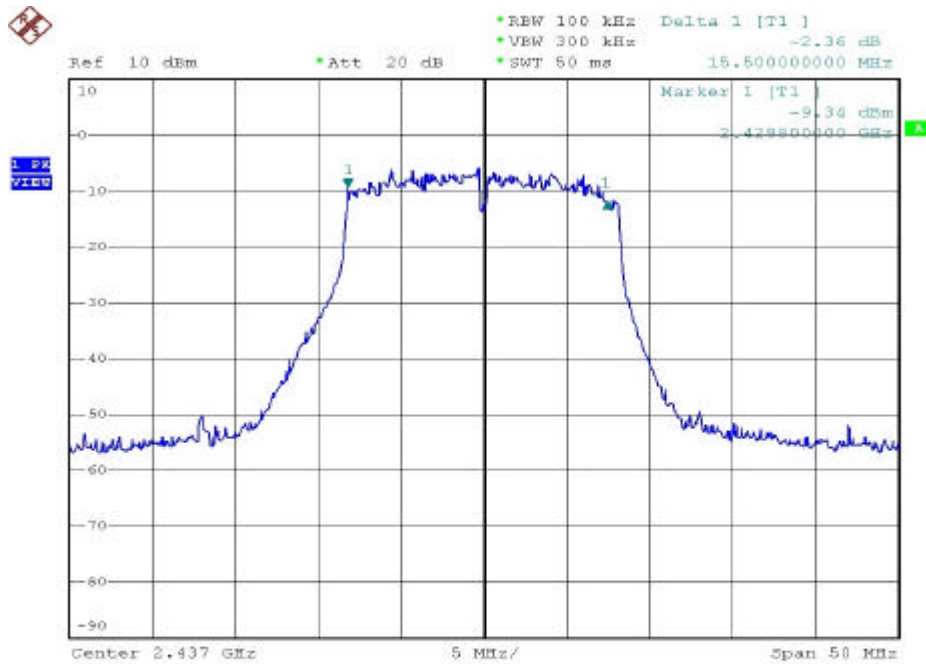
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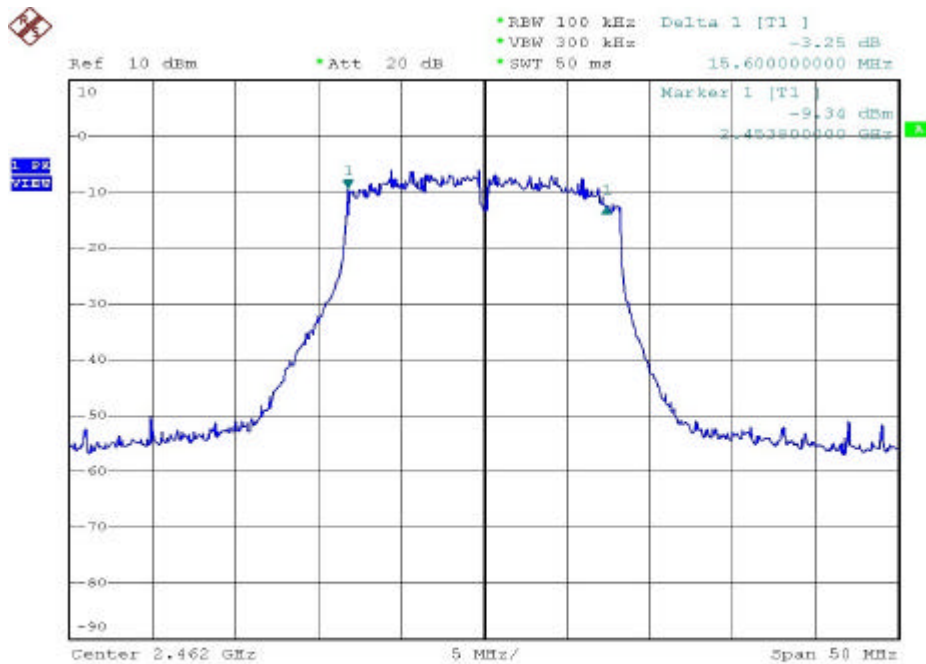
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Date: 23.SEP.2004 14:22:55



Date: 23.SEP.2004 14:24:14



Date: 23.SEP.2004 14:26:00

4.5. Peak Output Power Measurement Data

Antenna type 1:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Channel 01: Output Peak Power is	<u>14.26</u>	dBm or	<u>26.67</u>	mW
b) Channel 06: Output Peak Power is	<u>15.05</u>	dBm or	<u>31.99</u>	mW
c) Channel 11: Output Peak Power is	<u>14.34</u>	dBm or	<u>27.16</u>	mW

(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Channel 01: Output Peak Power is	<u>14.10</u>	dBm or	<u>25.70</u>	mW
b) Channel 06: Output Peak Power is	<u>14.06</u>	dBm or	<u>25.47</u>	mW
c) Channel 11: Output Peak Power is	<u>13.50</u>	dBm or	<u>22.39</u>	mW

Note: Conducted Power = Reading Value + Cable Loss

Antenna type 2:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

a) Channel 01: Output Peak Power is	<u>14.30</u>	dBm or	<u>26.92</u>	mW
b) Channel 06: Output Peak Power is	<u>14.88</u>	dBm or	<u>30.76</u>	mW
c) Channel 11: Output Peak Power is	<u>14.69</u>	dBm or	<u>29.44</u>	mW

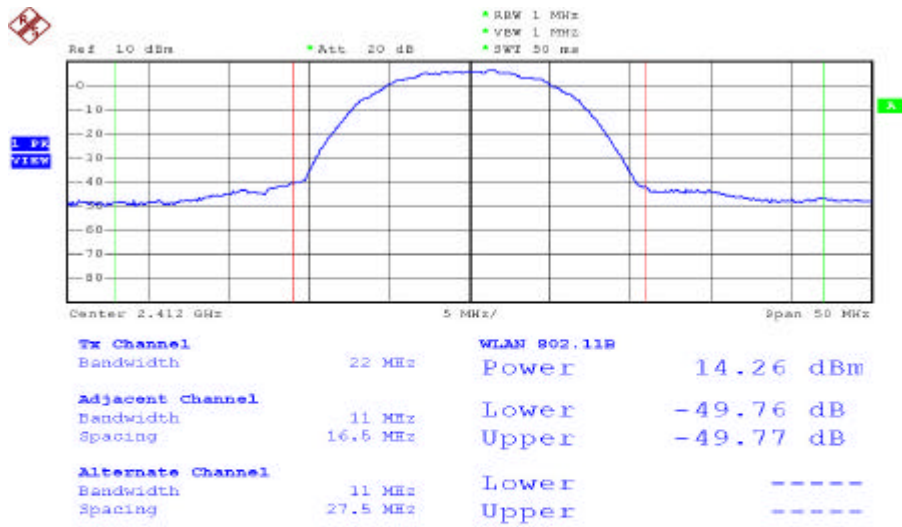
(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

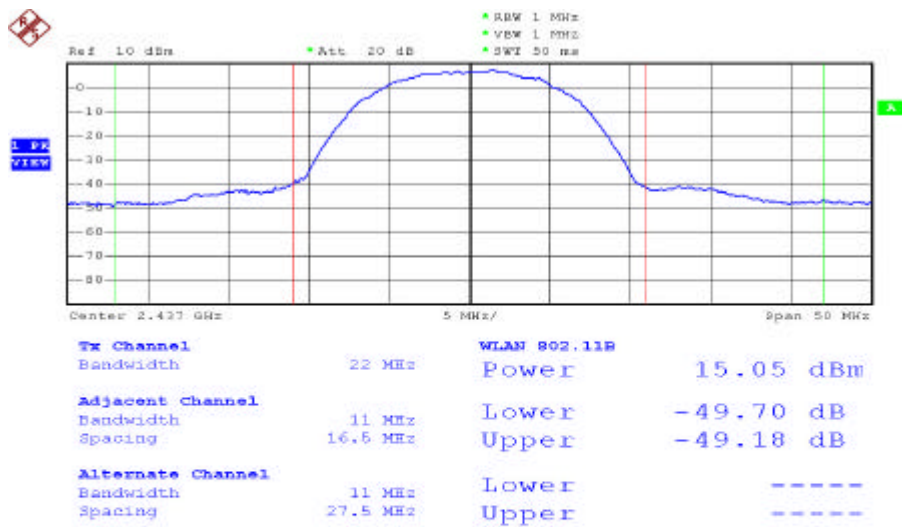
a) Channel 01: Output Peak Power is	<u>14.02</u>	dBm or	<u>25.23</u>	mW
b) Channel 06: Output Peak Power is	<u>14.08</u>	dBm or	<u>25.59</u>	mW
c) Channel 11: Output Peak Power is	<u>13.65</u>	dBm or	<u>23.17</u>	mW

Note: Conducted Power = Reading Value + Cable Loss

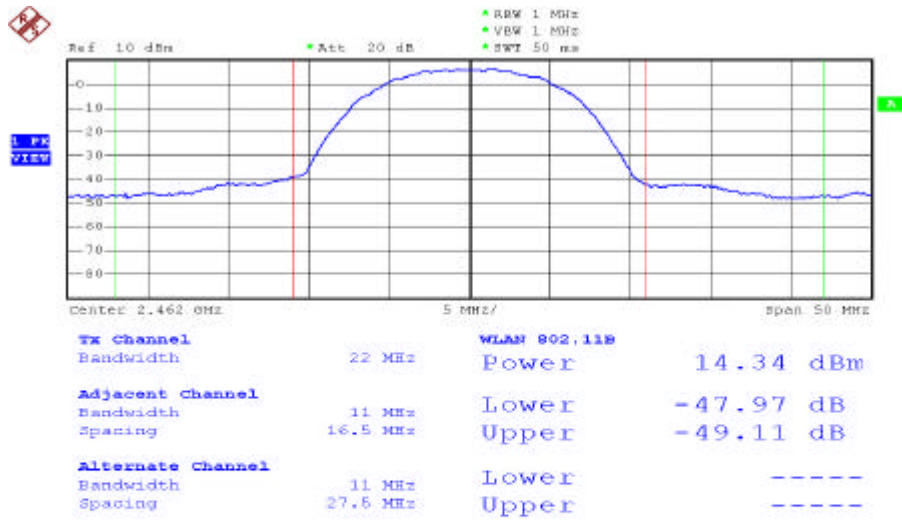
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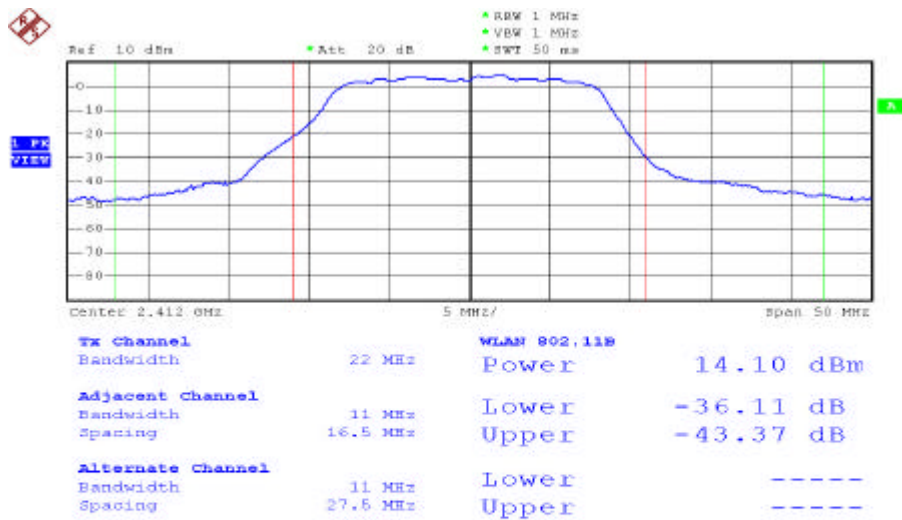
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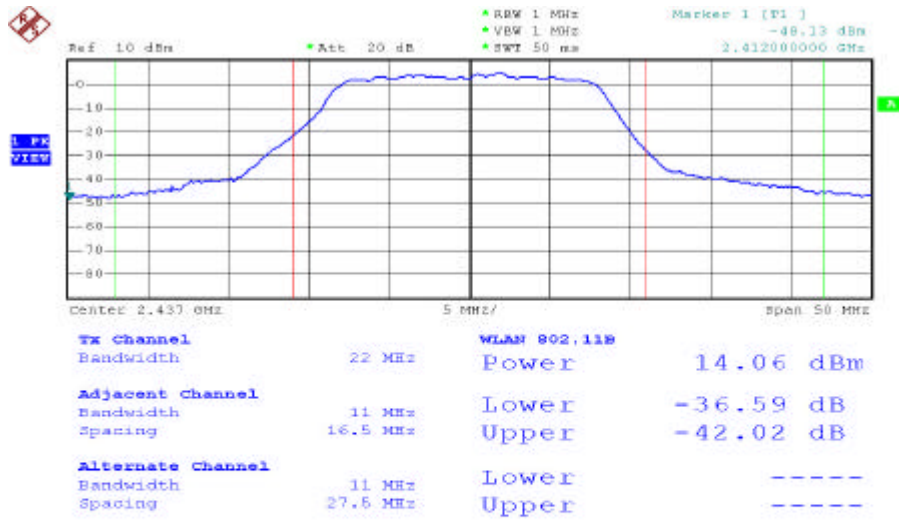
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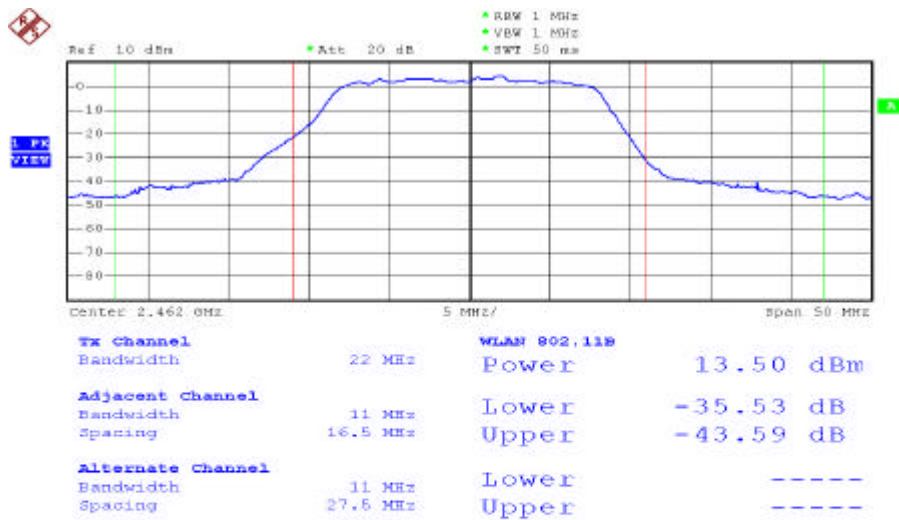
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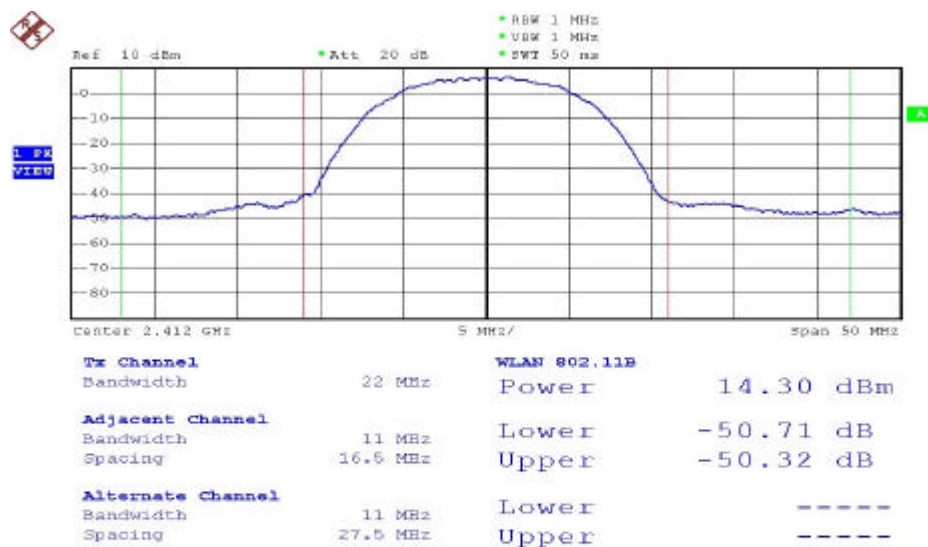


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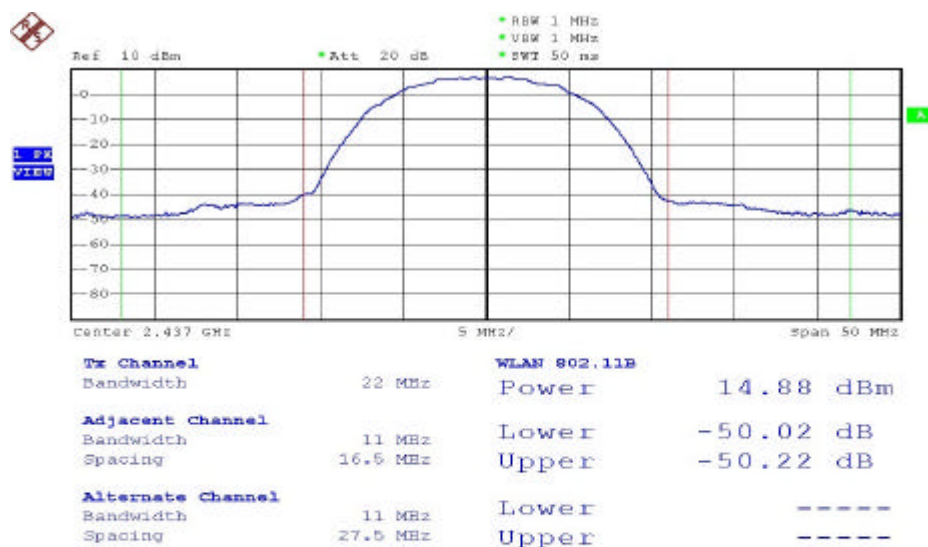


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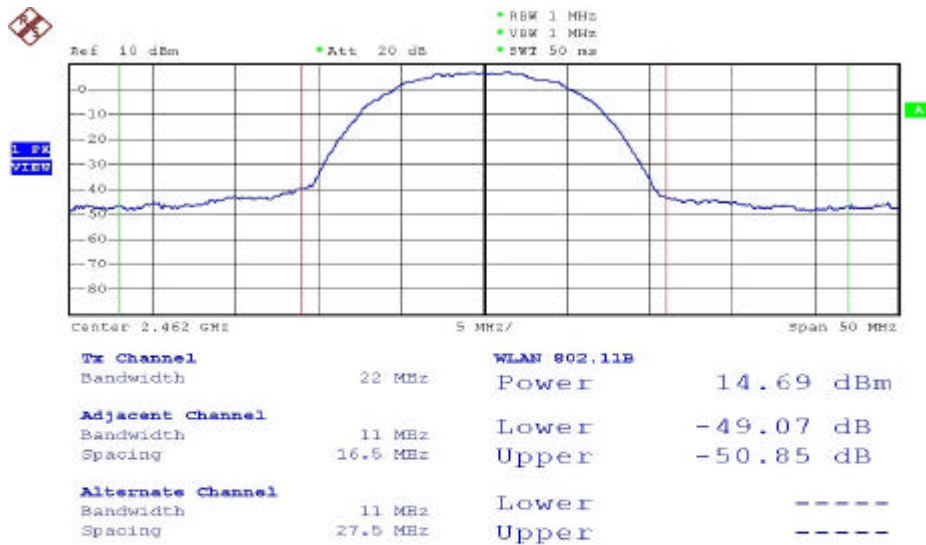
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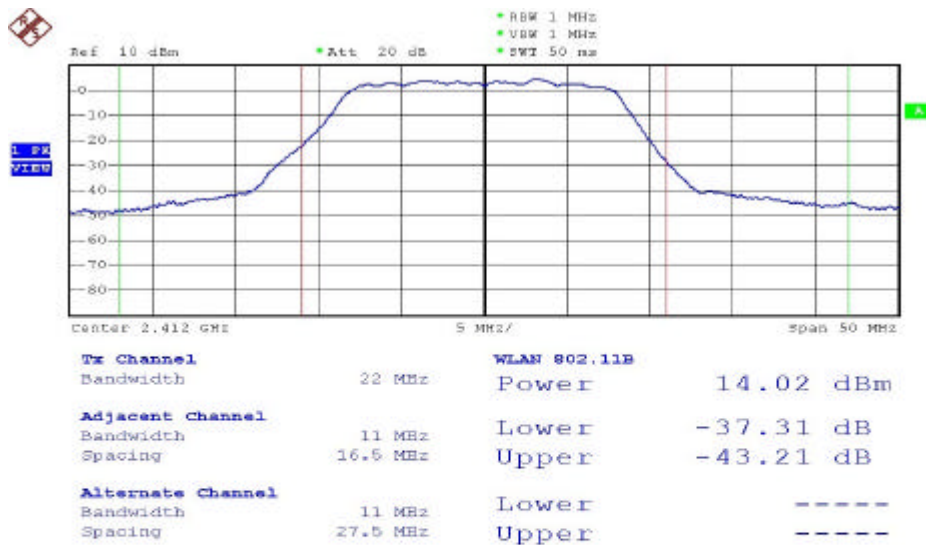
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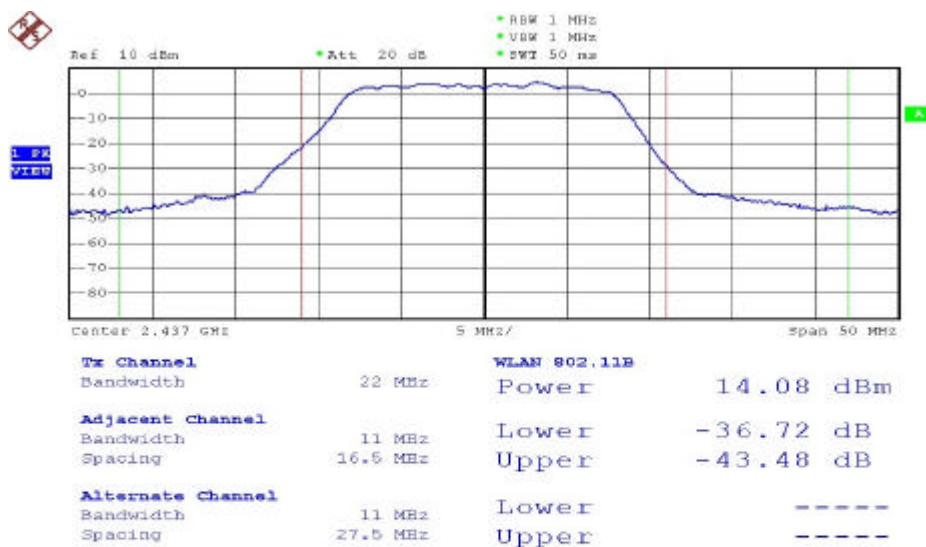
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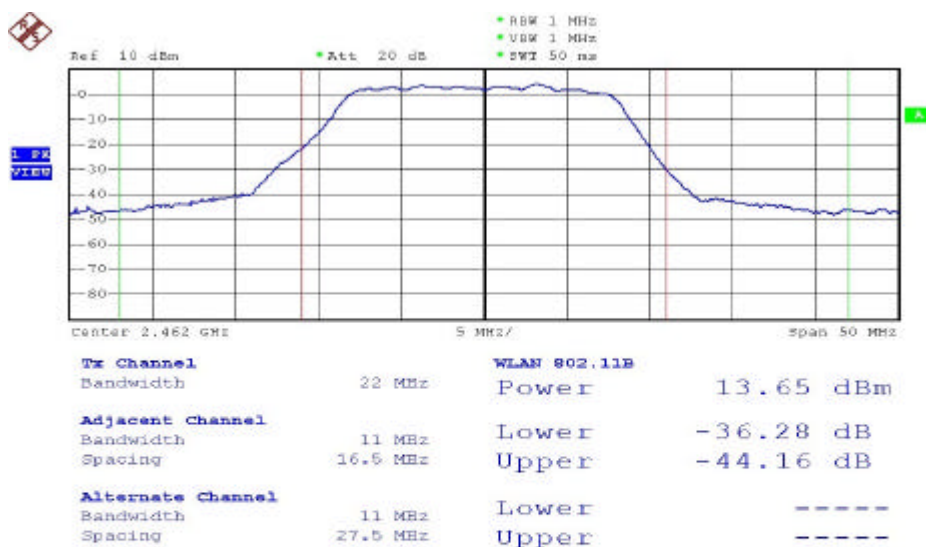
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Date: 23.SEP.2004 14:45:46



Date: 23.SEP.2004 14:51:17

4.6. Band Edges Measurement Data

Antenna type 1:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Lower Band Edge: maximum value is -42.87 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -41.02 dBm that is attenuated more than 20dB

(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 20, 2004 Temperature: 29 Humidity: 54%

a) Lower Band Edge: maximum value is -44.05 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -41.36 dBm that is attenuated more than 20dB

Antenna type 2:

(1) Modulation Standard: IEEE 802.11b

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

a) Lower Band Edge: maximum value is -44.09 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -39.60 dBm that is attenuated more than 20dB

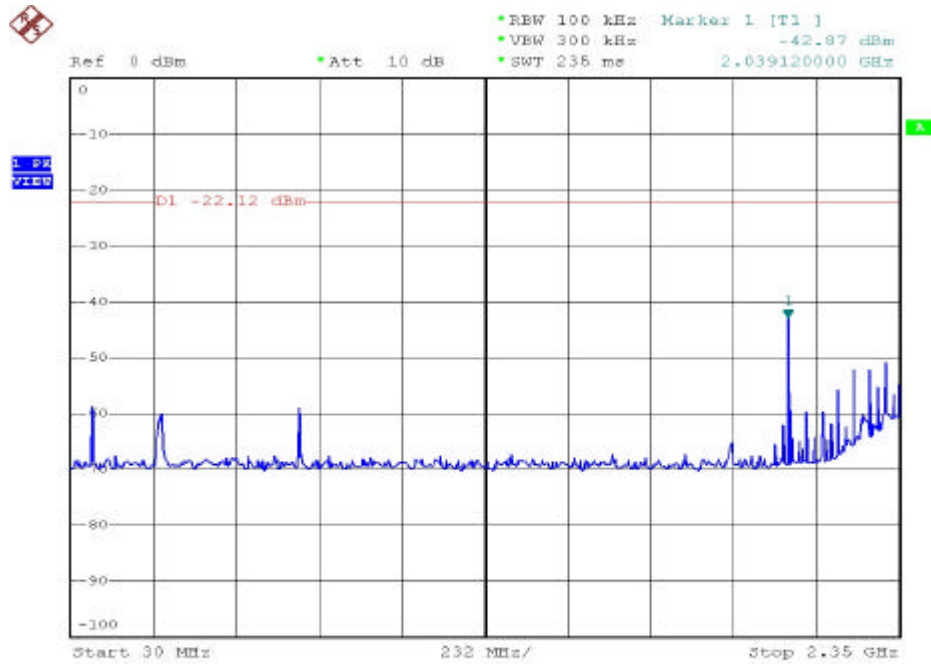
(2) Modulation Standard: IEEE 802.11g

Test Date: Sep. 23, 2004 Temperature: 25 Humidity: 55%

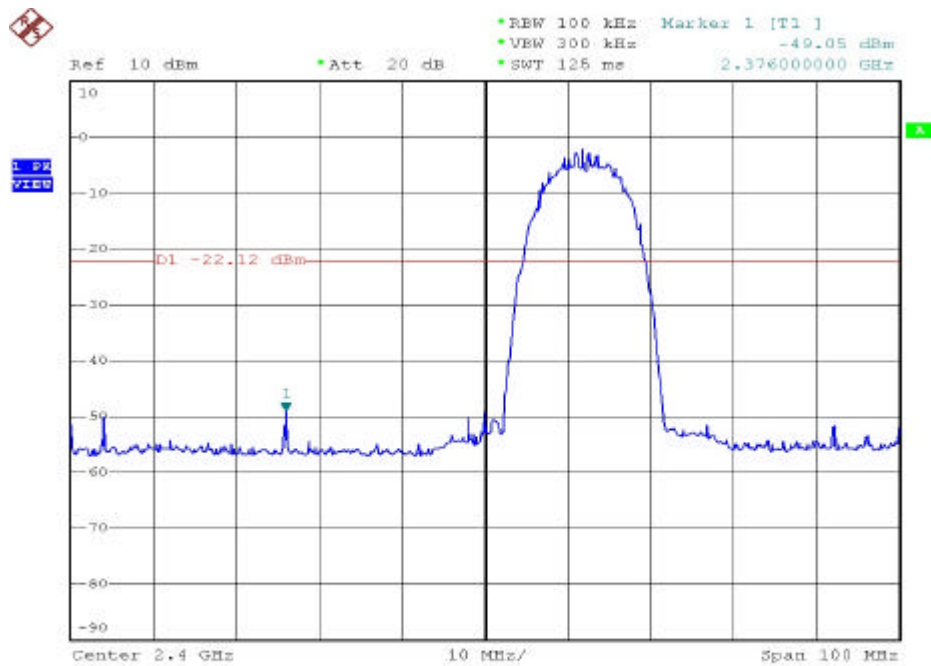
a) Lower Band Edge: maximum value is -44.03 dBm that is attenuated more than 20dB

b) Upper Band Edge: maximum value is -39.64 dBm that is attenuated more than 20dB

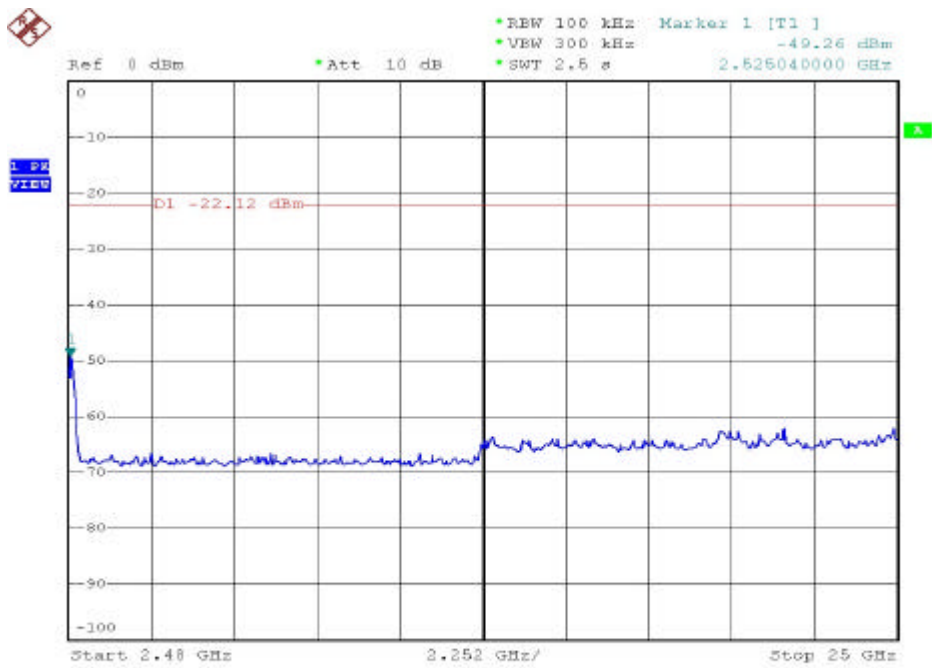
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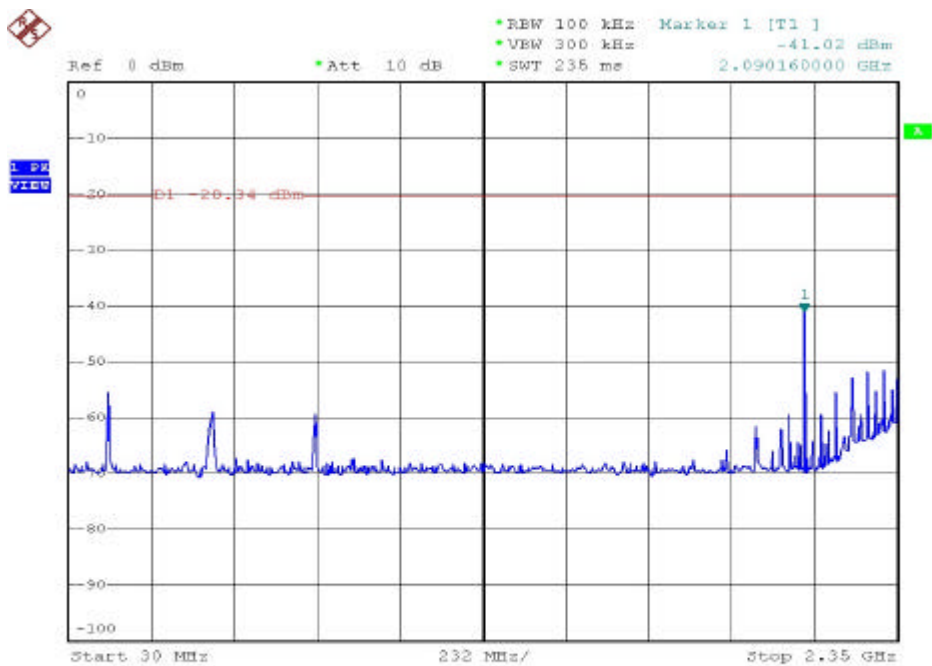
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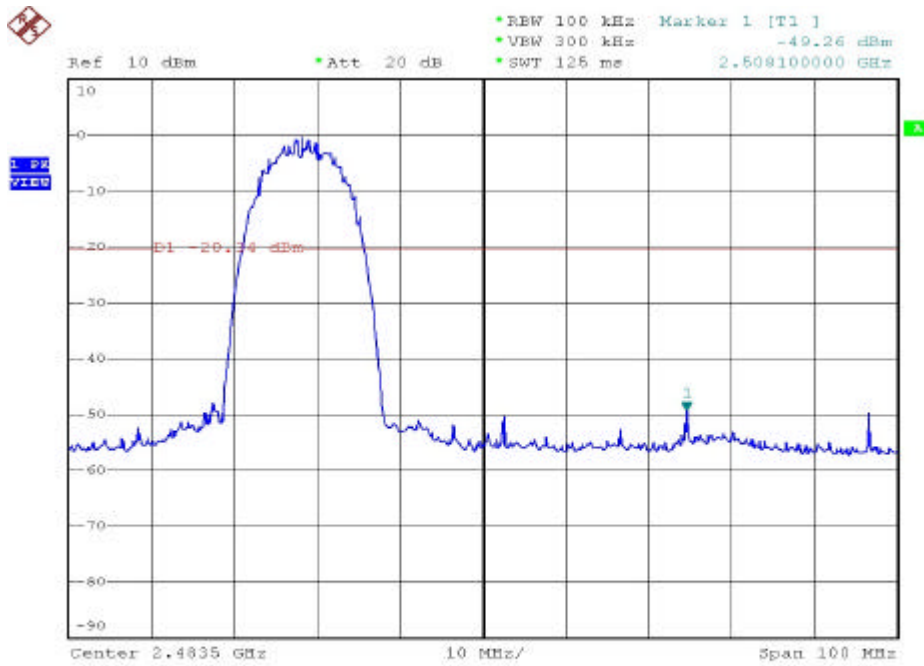
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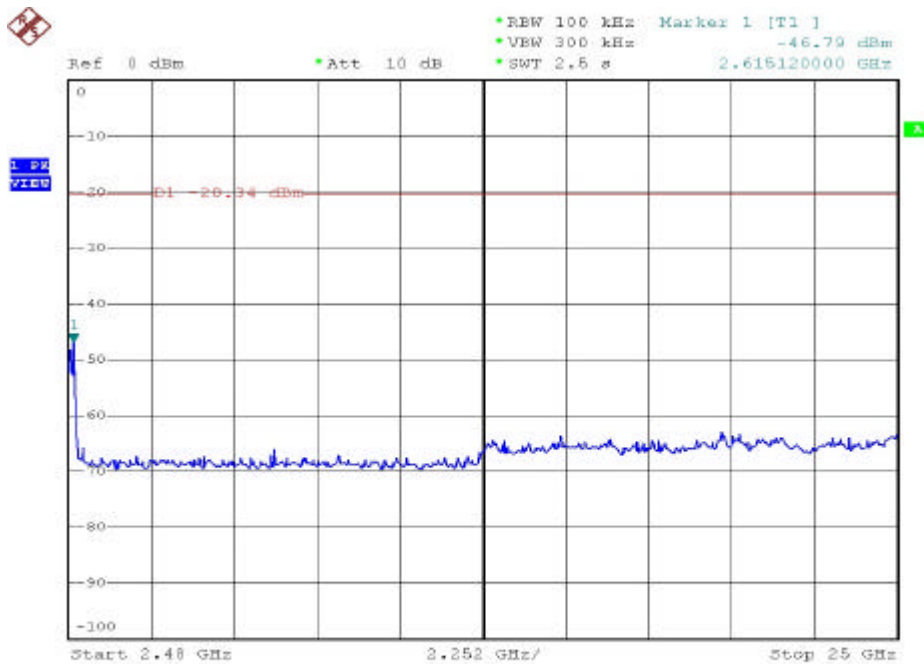
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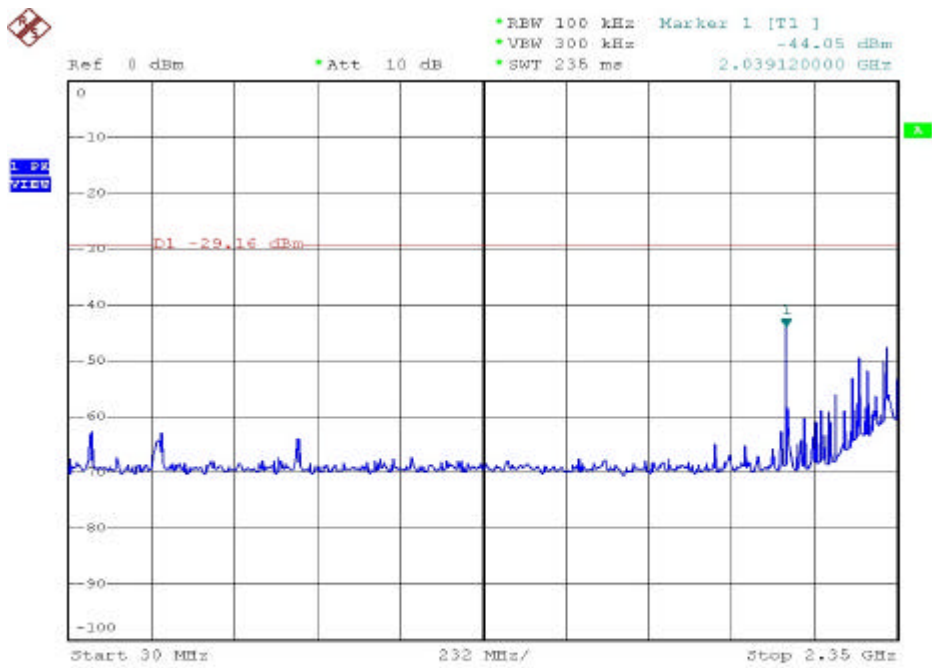
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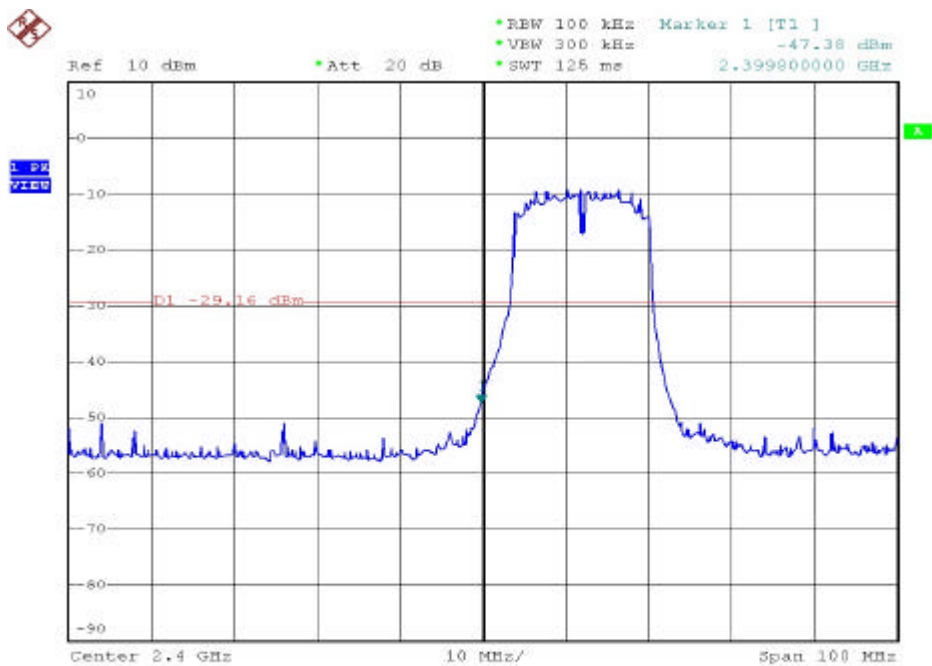
Date: 20.SEP.2004 14:59:19



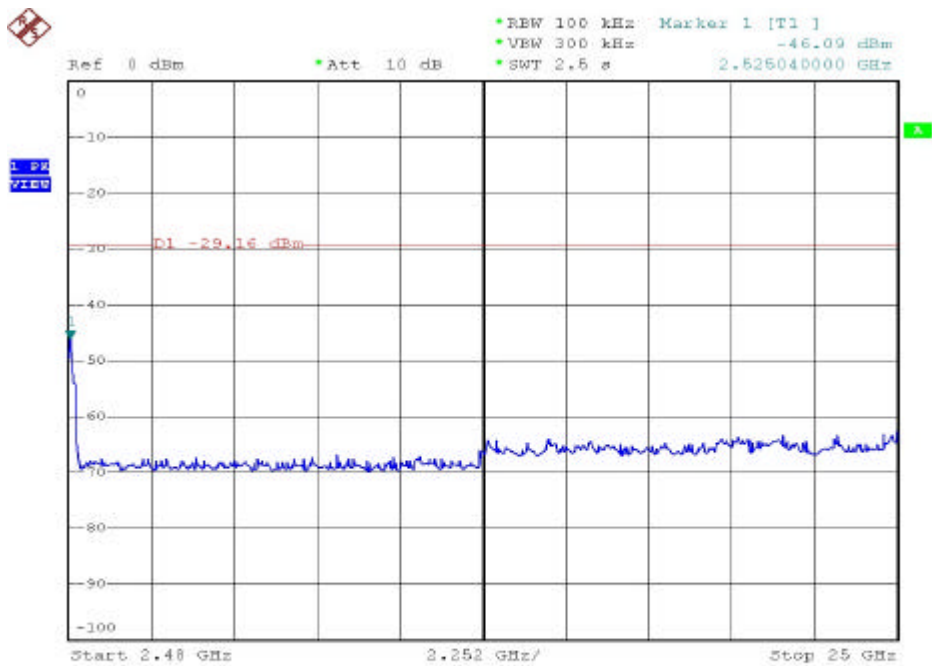
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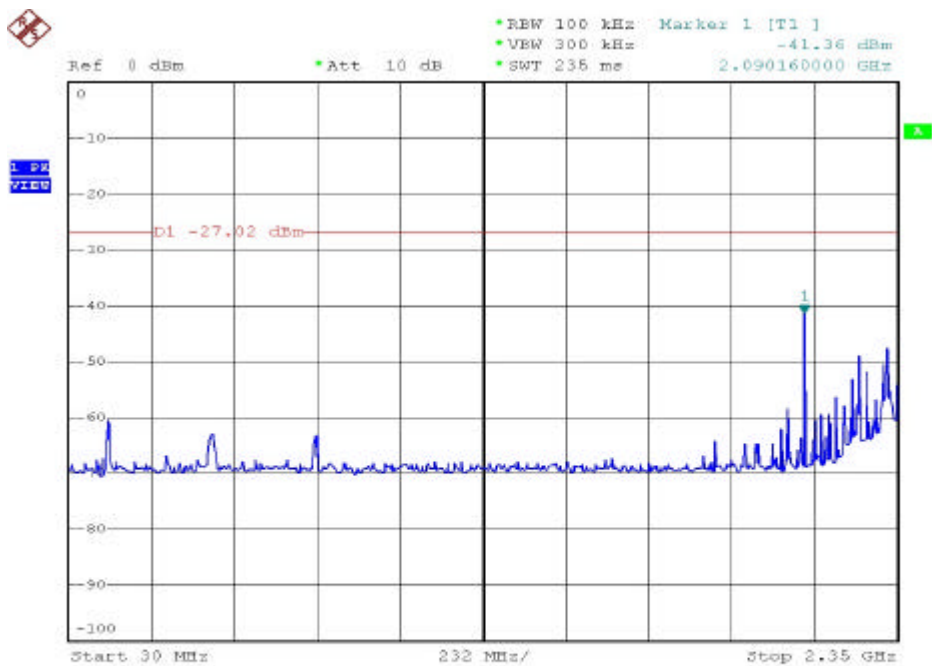
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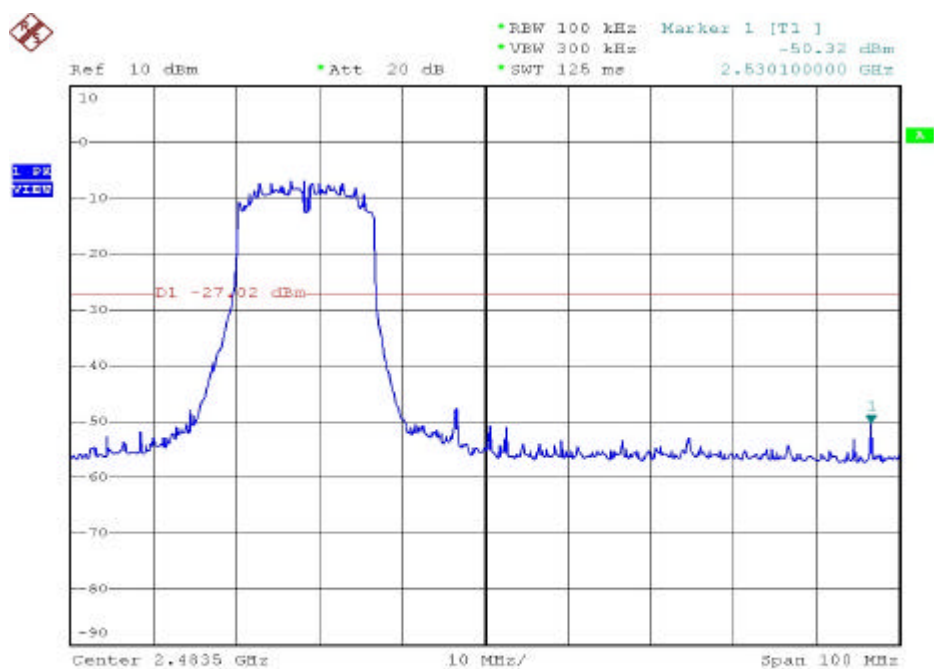
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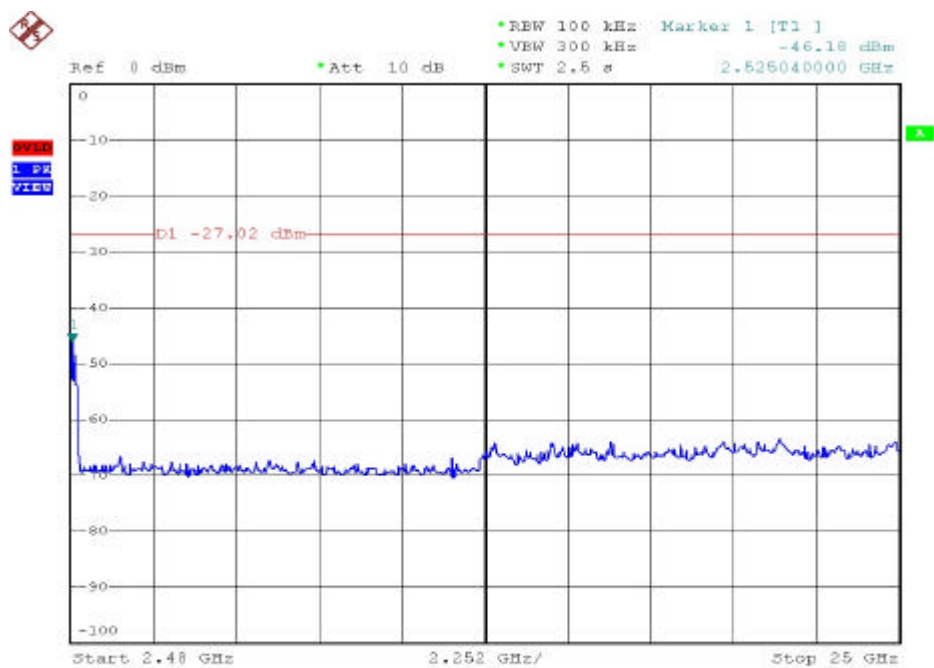
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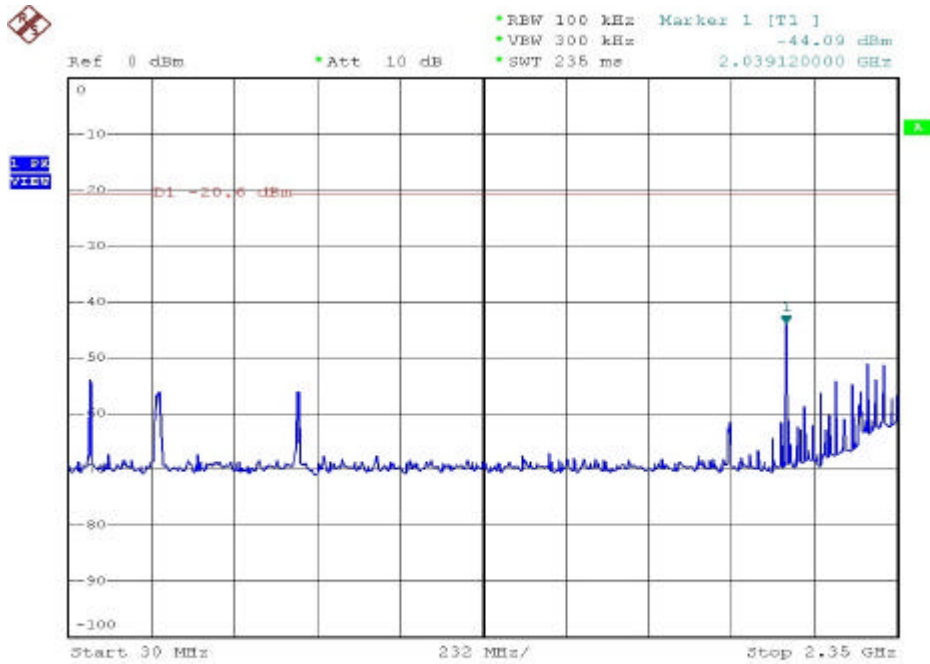


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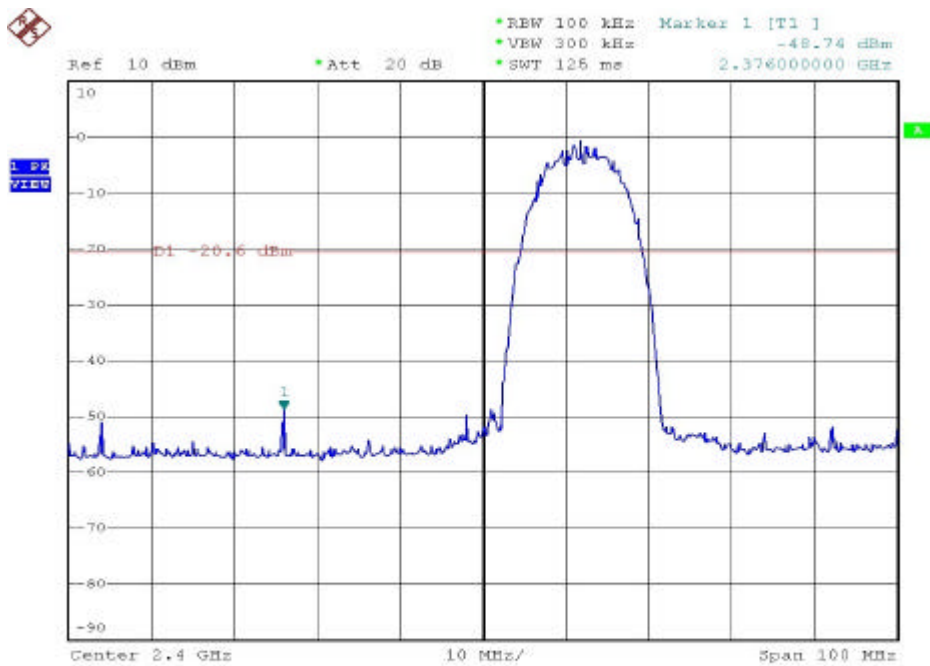


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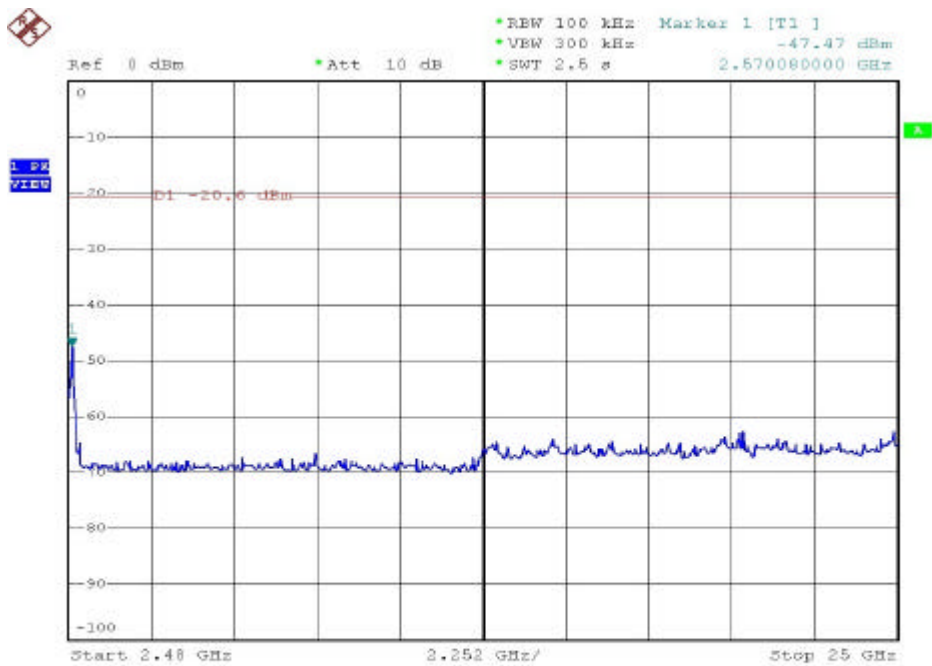
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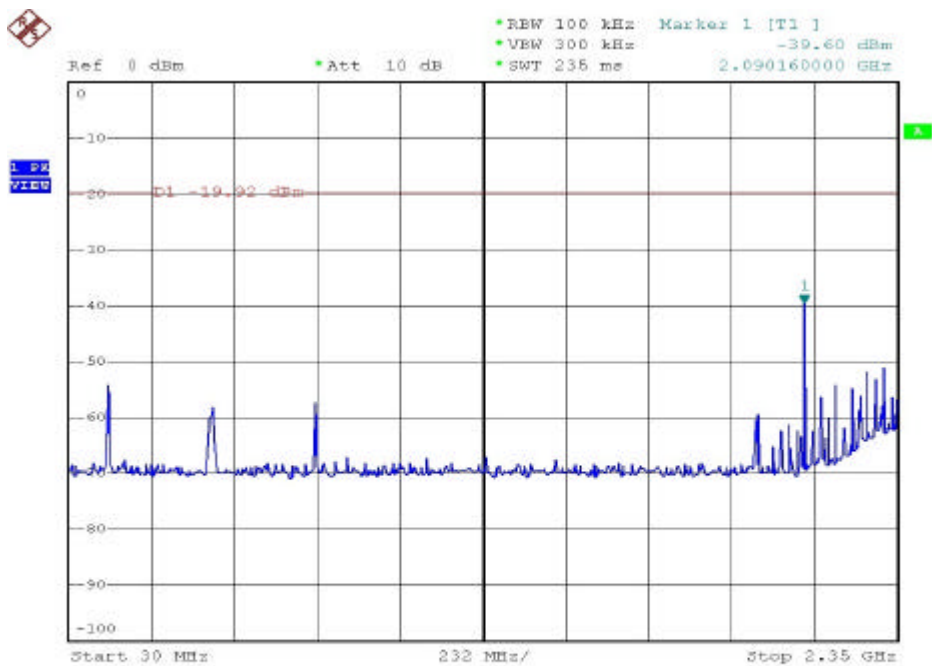
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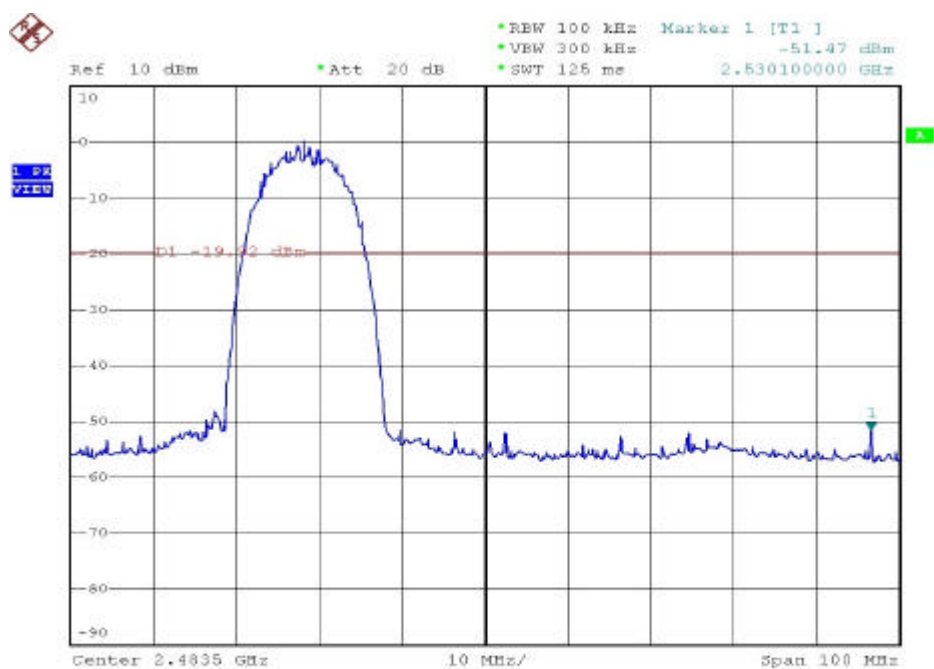
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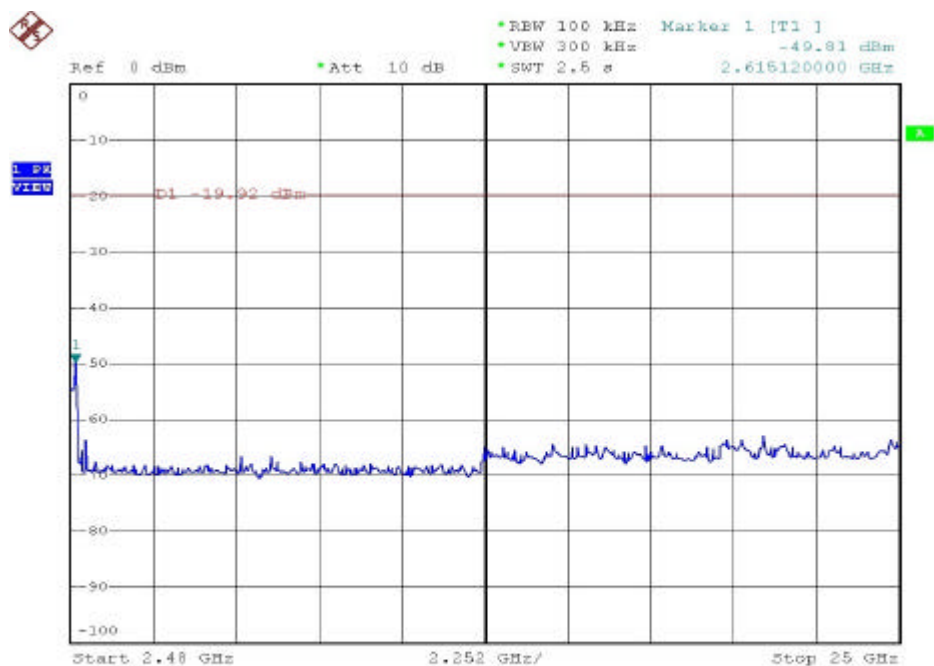
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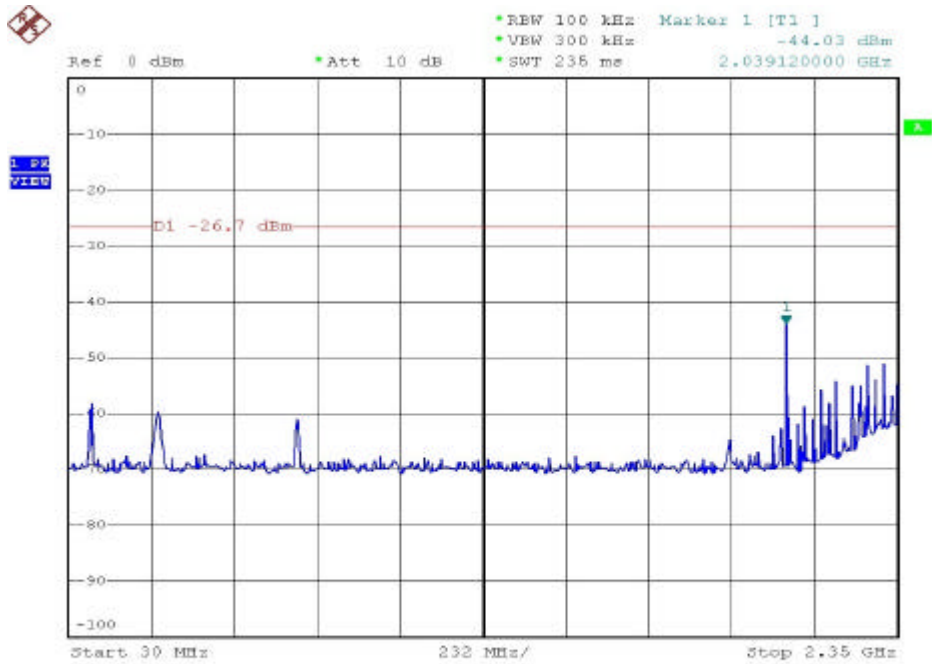
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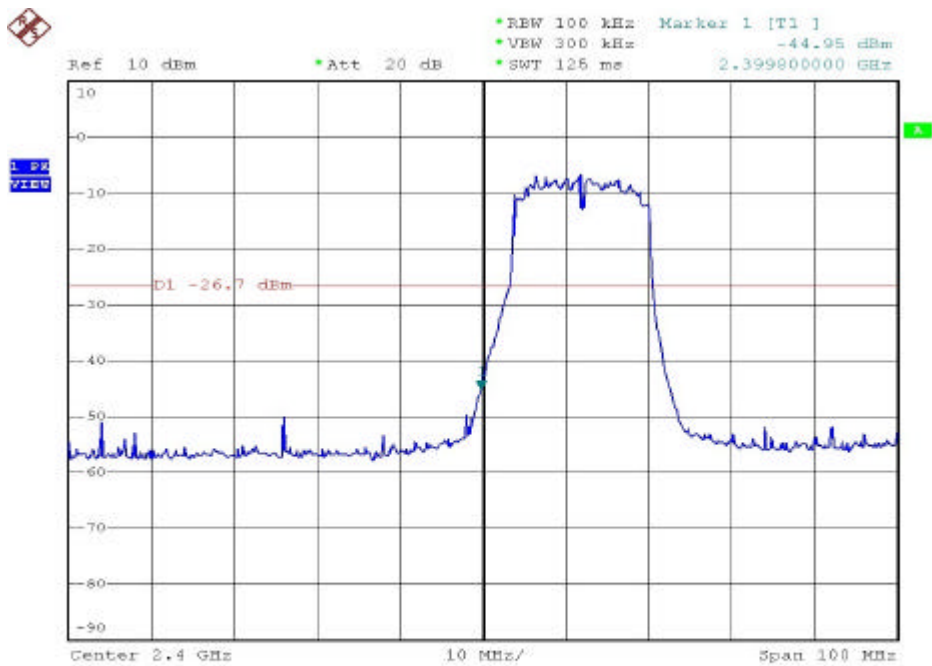
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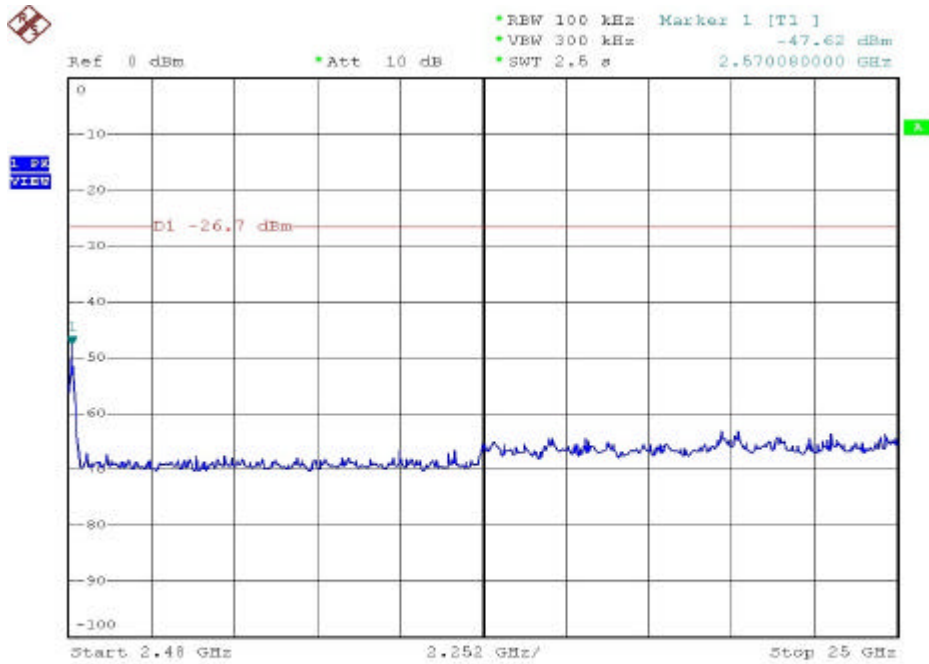
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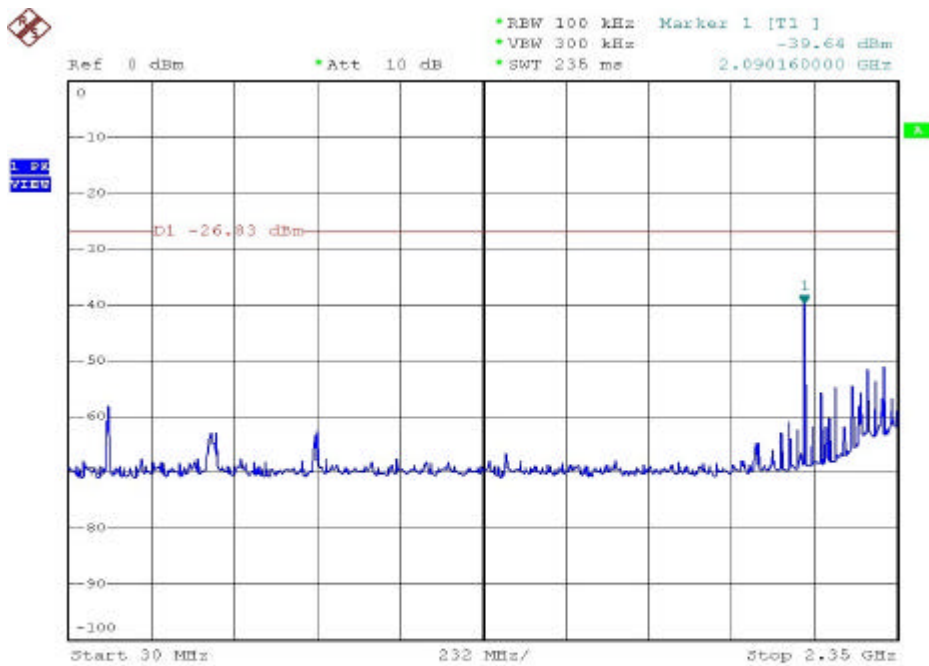
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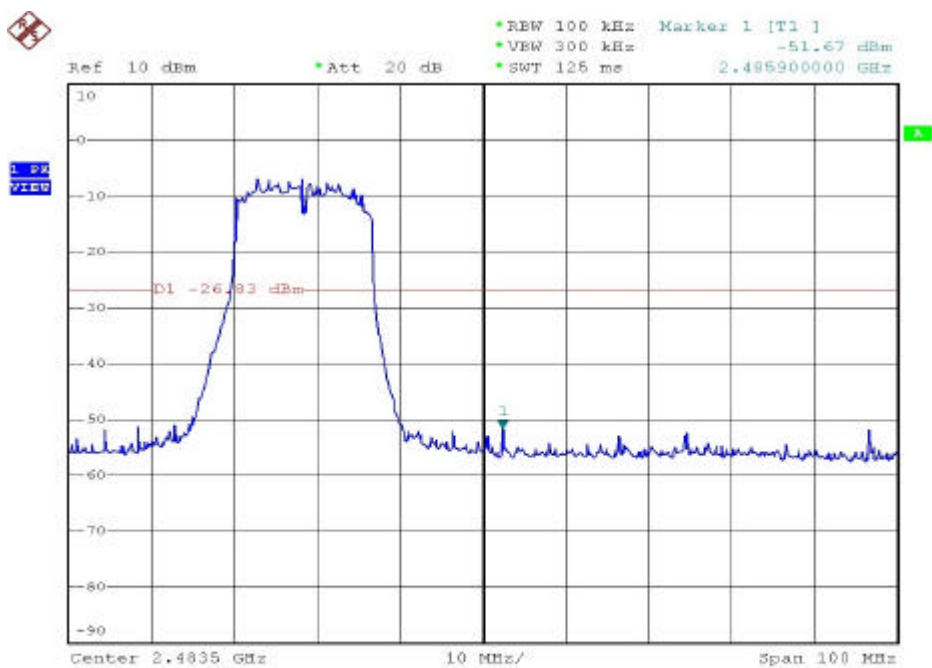
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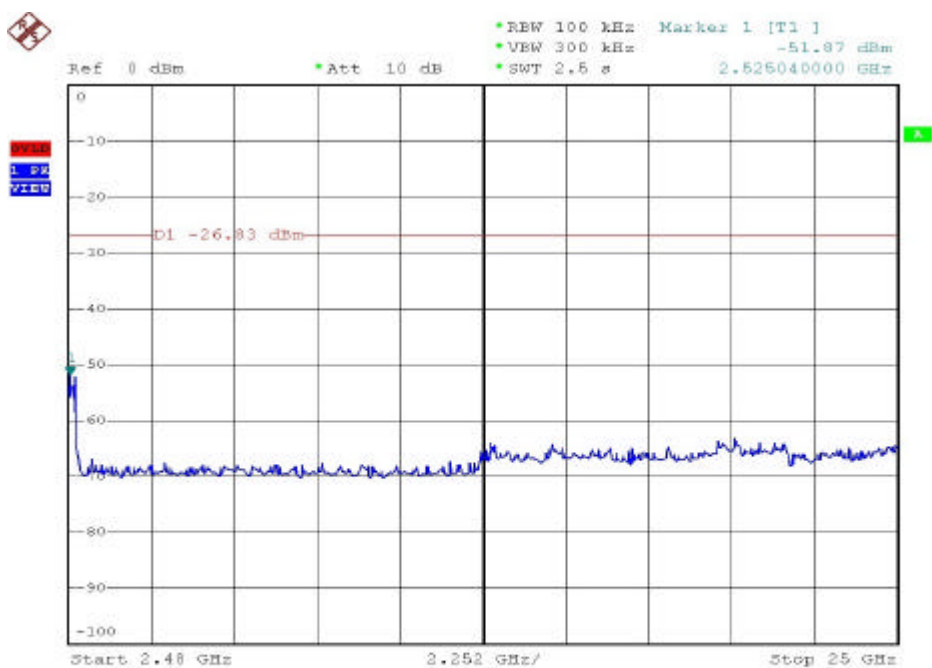
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Date: 23.SEP.2004 15:17:07



Date: 23.SEP.2004 15:19:08