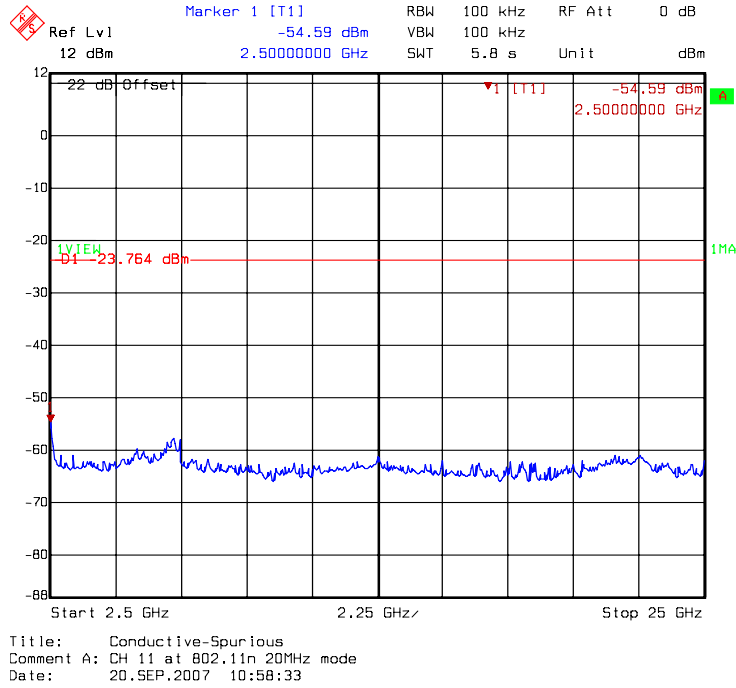
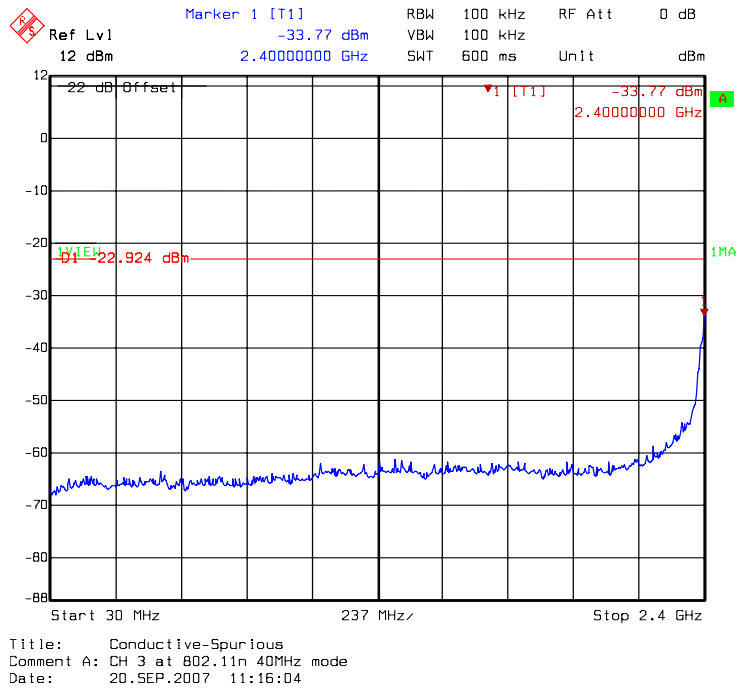


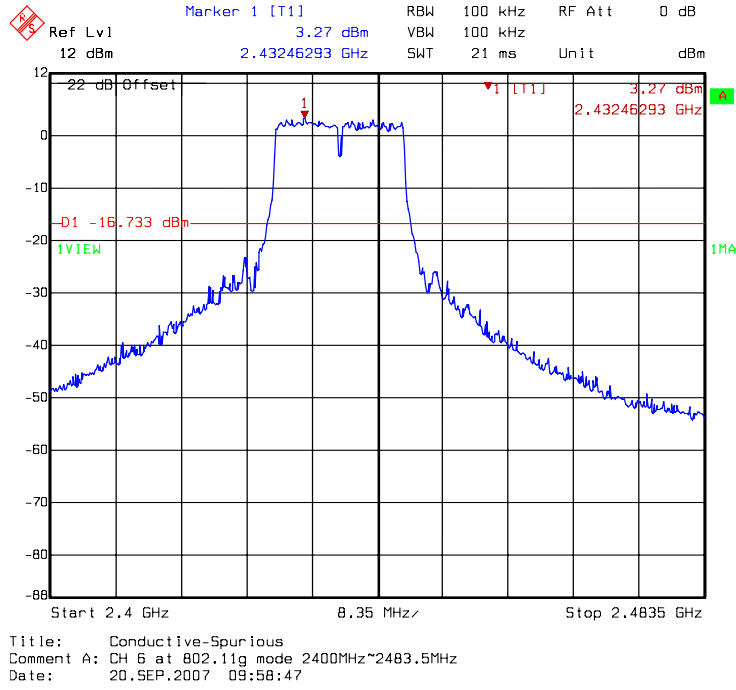
DAC1: conducted spurious @ draft 802.11n 20MHz mode channel 11 (3of 3)



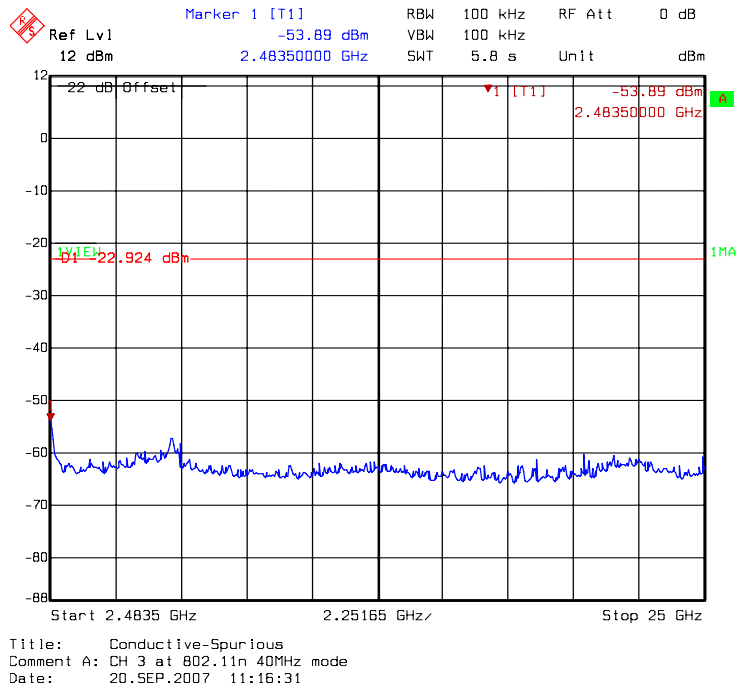
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 3 (1of 3)



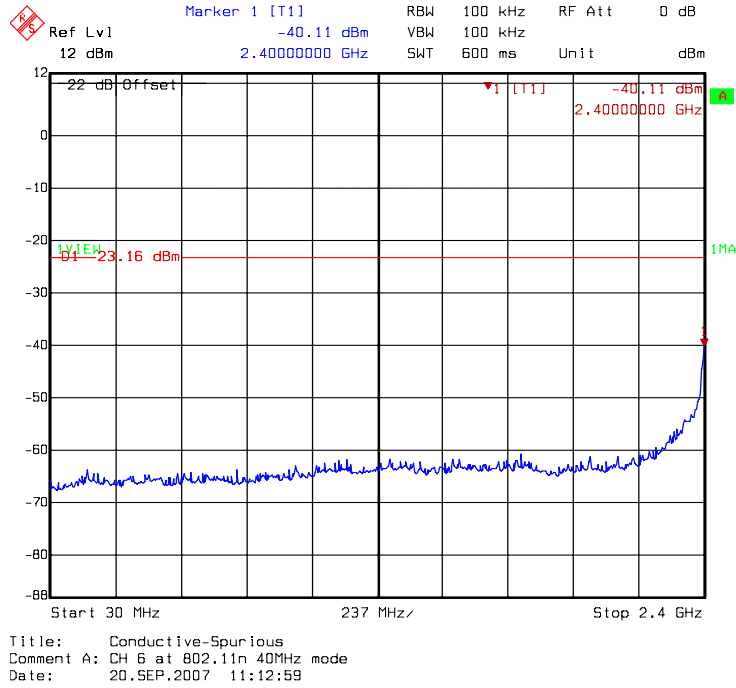
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 3 (2of 3)



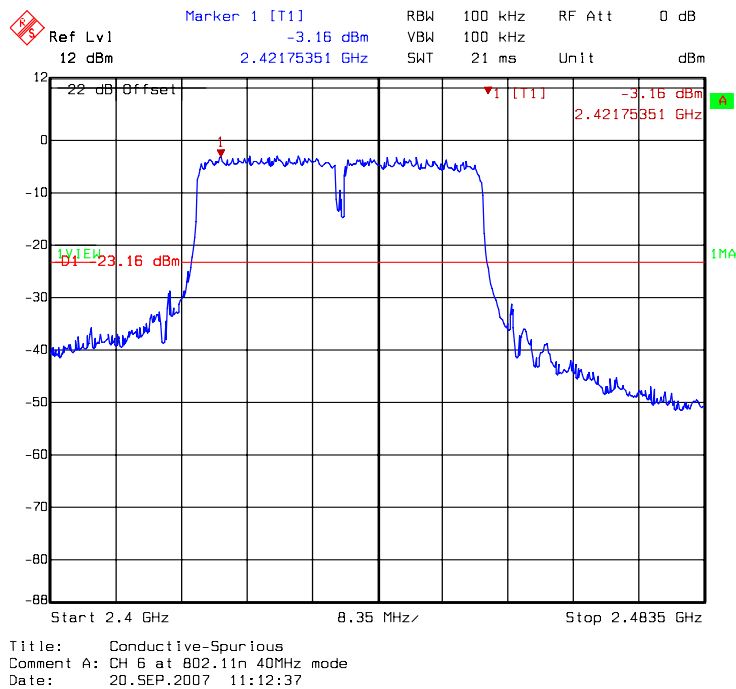
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 3 (3of 3)



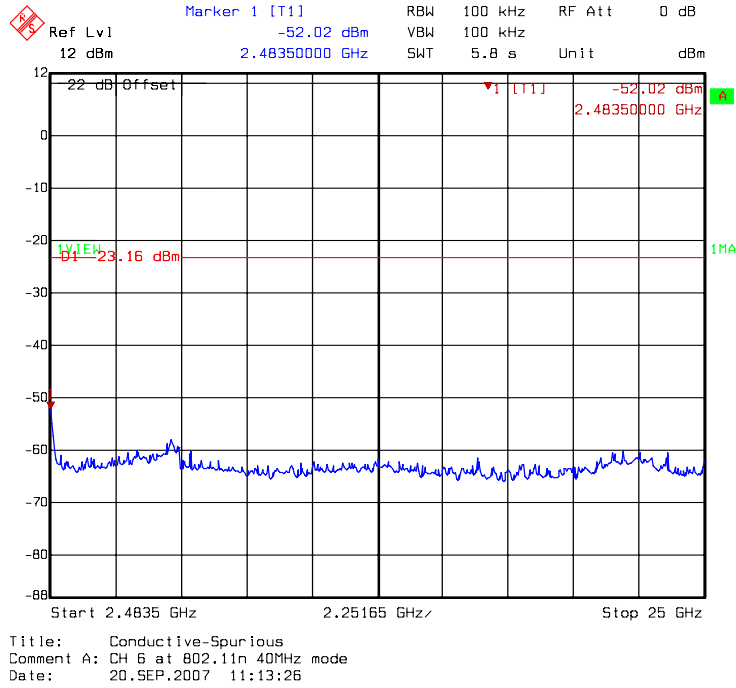
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 6 (1of 3)



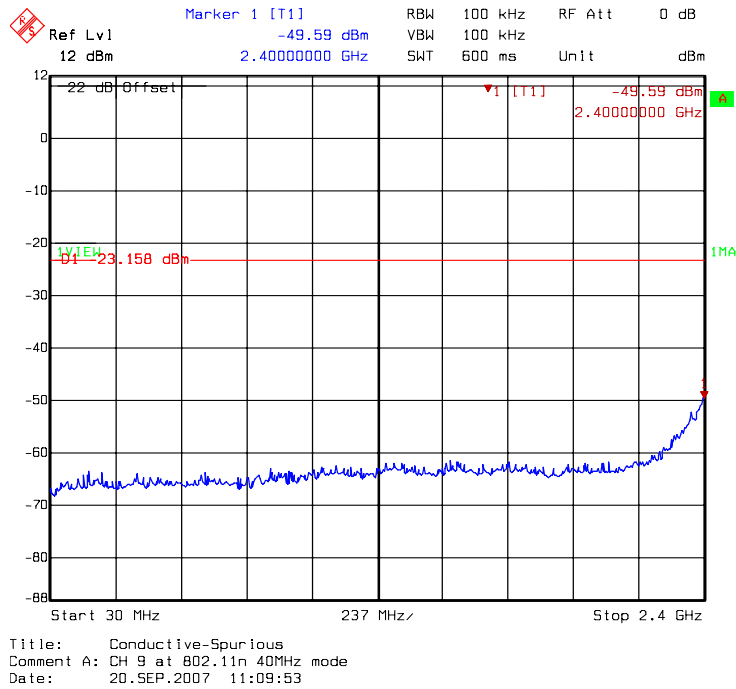
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 6 (2of 3)



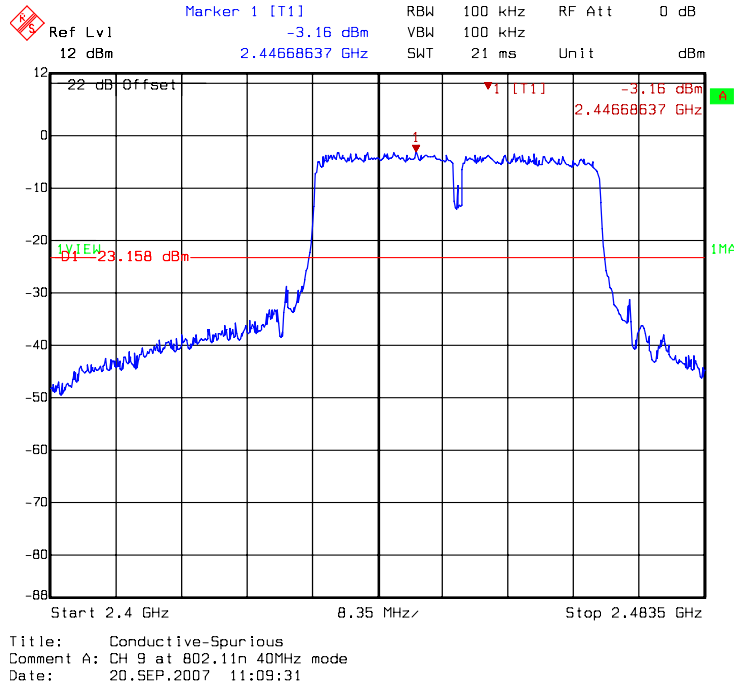
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 6 (3of 3)



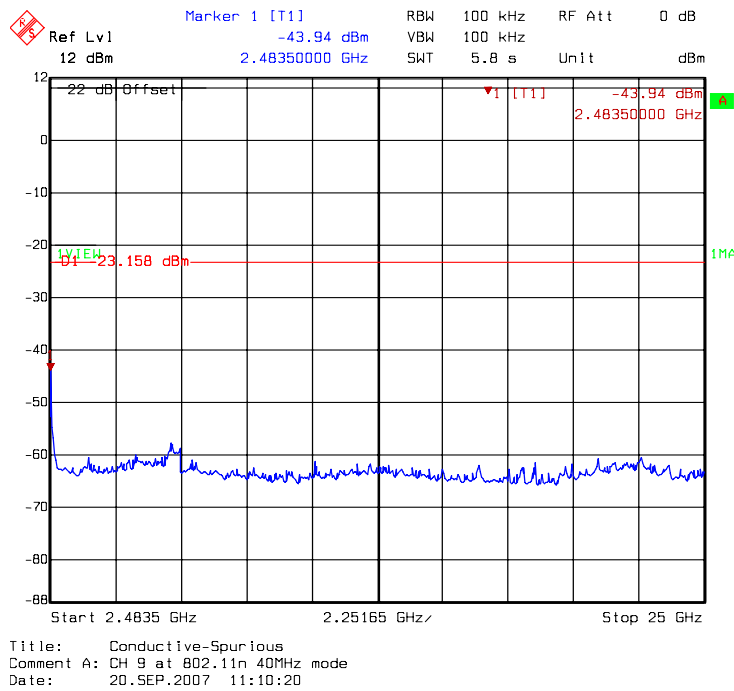
DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 9 (1of 3)



DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 9 (2of 3)



DAC1: conducted spurious @ draft 802.11n 40MHz mode channel 9 (3of 3)



8. Radiated Spurious Emission

Name of Test	Radiated Spurious Emission
Base Standard	FCC 15.247(d), 15.209, 15.205

Tested By: Jimmie Liu
Test Date: Sep. 20, 2007

Test Equipment: EC365

Test Result: Complies
Test Method: See Appendix D
Measurement Data: See Tables below

Note: (1) The EUT was tested while in a continuous transmit mode. The EUT was tuned to a low, middle and high channel.
(2) The EUT operating at 2.4GHz ISM band. Frequency Range scanned from 30MHz to 25GHz.

Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11b/g/n with DAC 0 and 802.11b/g/n with DAC 1 continuously transmitting mode. Channel 1, 6, 11 were verified. The worst case occurred at 802.11b Tx channel 1 with DAC 0.

EUT : NWD210N
Worst Case : 802.11b Tx at channel 1 (DAC0)

Antenna Polariz. (V/H)	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
V	113.420	QP	8.19	25.41	33.60	43.50	-9.90
V	173.560	QP	14.96	22.93	37.89	43.50	-5.62
V	211.390	QP	11.65	24.81	36.46	43.50	-7.04
V	407.330	QP	16.47	15.95	32.42	46.00	-13.58
V	480.080	QP	18.43	12.93	31.36	46.00	-14.65
V	959.260	QP	25.34	10.42	35.76	46.00	-10.25
H	174.530	QP	13.48	20.27	33.75	43.50	-9.76
H	365.620	QP	15.48	16.48	31.96	46.00	-14.05
H	399.570	QP	16.74	15.37	32.11	46.00	-13.89
H	479.110	QP	18.64	14.70	33.34	46.00	-12.66
H	799.210	QP	23.52	10.76	34.28	46.00	-11.72
H	959.260	QP	25.54	11.09	36.63	46.00	-9.37

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

Measurement results: frequency above 1GHz

Single Tx

EUT : NWD210N
 Test Condition : 802.11b Tx at channel 1 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4824.00	PK	V	36.07	37.77	42.16	43.86	54	-10.14
4980.00	PK	V	36.07	37.77	42.42	44.12	54	-9.88
3270.00	PK	H	35.54	34.62	44.74	43.82	54	-10.18

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
 Test Condition : 802.11b Tx at channel 6 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.15	44.23	54	-9.77
4874.00	PK	V	36.07	37.77	43.12	44.82	54	-9.18
4980.00	PK	V	36.07	37.77	43.6	45.3	54	-8.7

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11b Tx at channel 11 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3210.00	PK	V	35.54	34.62	47.39	46.47	54	-7.53
4980.00	PK	V	36.07	37.77	44.43	46.13	54	-7.87
4924.00	PK	H	36.07	37.77	43.17	44.87	54	-9.13

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11b Tx at channel 1 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.24	44.32	54	-9.68
4980.00	PK	V	36.07	37.77	44.13	45.83	54	-8.17

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11b Tx at channel 6 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.85	43.93	54	-10.07
4980.00	PK	V	36.07	37.77	41.77	43.47	54	-10.53

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11b Tx at channel 11 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.41	44.49	54	-9.51
4980.00	PK	V	36.07	37.77	42.8	44.5	54	-9.5

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 1 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.67	43.75	54	-10.25
4980.00	PK	V	36.07	37.77	44.21	45.91	54	-8.09

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 6 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.37	42.45	54	-11.55
4980.00	PK	V	36.07	37.77	44.33	46.03	54	-7.97

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 11 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.93	43.01	54	-10.99
4980.00	PK	V	36.07	37.77	43.05	44.75	54	-9.25

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 1 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.68	42.76	54	-11.24
4980.00	PK	V	36.07	37.77	42.23	43.93	54	-10.07

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 6 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.34	43.42	54	-10.58
4980.00	PK	V	36.07	37.77	43.67	45.37	54	-8.63

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11g Tx at channel 11 (DAC1)

No spurious emission was found above the spectrum analyzer’s noise floor.

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.01	43.09	54	-10.91
4980.00	PK	V	36.07	37.77	45.24	46.94	54	-7.06

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
 Test Condition : 802.11n 20MHz Tx at channel 1 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.68	43.76	54	-10.24
4980.00	PK	V	36.07	37.77	45.66	47.36	54	-6.64

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
 Test Condition : 802.11n 20MHz Tx at channel 6 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.64	42.72	54	-11.28

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 20MHz Tx at channel 11 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.83	43.91	54	-10.09
4980.00	PK	V	36.07	37.77	44.19	45.89	54	-8.11

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 20MHz Tx at channel 1 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.1	42.18	54	-11.82
4980.00	PK	V	36.07	37.77	43.04	44.74	54	-9.26

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 20MHz Tx at channel 6 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.18	43.26	54	-10.74
4980.00	PK	V	36.07	37.77	43.94	45.64	54	-8.36

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 20MHz Tx at channel 11 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.6	44.68	54	-9.32
4980.00	PK	V	36.07	37.77	43.56	45.26	54	-8.74

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 40MHz Tx at channel 3 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.07	44.15	54	-9.85
4980.00	PK	V	36.07	37.77	43.7	45.4	54	-8.6

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 40MHz Tx at channel 6 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.04	44.12	54	-9.88
4980.00	PK	V	36.07	37.77	43.84	45.54	54	-8.46

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
 Test Condition : 802.11n 40MHz Tx at channel 9 (DAC0)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.73	44.81	54	-9.19
4980.00	PK	V	36.07	37.77	43.29	44.99	54	-9.01

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
 Test Condition : 802.11n 40MHz Tx at channel 3 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3210.00	PK	V	35.54	34.62	46.69	45.77	54	-8.23
4980.00	PK	V	36.07	37.77	41.92	43.62	54	-10.38

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 40MHz Tx at channel 6 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.51	42.59	54	-11.41
4980.00	PK	V	36.07	37.77	42.38	44.08	54	-9.92

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 40MHz Tx at channel 9 (DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBUV)	Corrected Level (dBUV/m)	Limit @ 3 m (dBUV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	43.88	42.96	54	-11.04
4980.00	PK	V	36.07	37.77	42.65	44.35	54	-9.65

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the system noise floor.

Dual Tx

EUT : NWD210N

Test Condition : 802.11n 20MHz Tx at channel 1 (DAC0 & DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.59	43.67	54	-10.33
4980.00	PK	V	36.07	37.77	44.89	46.59	54	-7.41
3270.00	PK	H	35.54	34.62	42.86	41.94	54	-12.06

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N

Test Condition : 802.11n 20MHz Tx at channel 6 (DAC0 & DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.87	43.95	54	-10.05
4980.00	PK	V	36.07	37.77	42.74	44.44	54	-9.56

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 20MHz Tx at channel 11 (DAC0 & DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.31	43.39	54	-10.61
4980.00	PK	V	36.07	37.77	43.13	44.83	54	-9.17

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N
Test Condition : 802.11n 40MHz Tx at channel 3 (DAC0&DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.84	43.92	54	-10.08
4980.00	PK	V	36.07	37.77	44.14	45.84	54	-8.16

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N

Test Condition : 802.11n 40MHz Tx at channel 6 (DAC0&DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	44.5	43.58	54	-10.42
4980.00	PK	V	36.07	37.77	44.33	46.03	54	-7.97

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

EUT : NWD210N

Test Condition : 802.11n 40MHz Tx at channel 9 (DAC0&DAC1)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3270.00	PK	V	35.54	34.62	45.12	44.2	54	-9.8
4980.00	PK	V	36.07	37.77	42.87	44.57	54	-9.43

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The frequency measured ranges from 1GHz to 25GHz.The data value listed above which is higher than the system noise floor.

9. Emission on Band Edge

Name of Test	Emission Band Edge
Base Standard	FCC 15.247(d)

Tested By: Jimmie Liu
Test Date: Sep. 20, 2007

Test Equipment: EC365

Test Result: Complies
Test Method: See Appendix D
Measurement Data: See Tables & plots below

- Note:**
1. The EUT was tested while in a continuous transmit mode and tuned to the lowest and the highest channels.
 2. The EUT was evaluated all the data rates, the worst emissions were occurred on 1Mbps data rate for 11b function and 6Mbps data rate for 11g and 11n (20M & 40M BW) function.

Single Tx

Test Mode: 802.11b (DAC0)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	65.43	74	-8.57
		AV	53.95	54	-0.05
11 (highest)	2483.5-2500	PK	54.59	74	-19.41
		AV	53.53	54	-0.47

Test Mode: 802.11g (DAC0)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	72.24	74	-1.76
		AV	53.32	54	-0.68
11 (highest)	2483.5-2500	PK	72.10	74	-1.9
		AV	53.80	54	-0.2

Test Mode: 802.11n 20MHz (DAC0)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	73.16	74	-0.84
		AV	53.62	54	-0.38
11 (highest)	2483.5-2500	PK	73.37	74	-0.63
		AV	53.96	54	-0.04

Test Mode: 802.11n 40MHz (DAC0)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3 (lowest)	2310-2390	PK	71.12	74	-2.88
		AV	53.91	54	-0.09
9 (highest)	2483.5-2500	PK	64.91	74	-9.09
		AV	53.59	54	-0.41

Test Mode: 802.11b (DAC1)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	65.15	74	-8.85
		AV	53.94	54	-0.06
11 (highest)	2483.5-2500	PK	64.96	74	-9.04
		AV	53.95	54	-0.05

Test Mode: 802.11g (DAC1)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	72.14	74	-1.86
		AV	53.63	54	-0.37
11 (highest)	2483.5-2500	PK	71.58	74	-2.42
		AV	53.72	54	-0.28

Test Mode: 802.11n 20MHz (DAC1)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	72.02	74	-1.98
		AV	53.38	54	-0.62
11 (highest)	2483.5-2500	PK	71.24	74	-2.76
		AV	53.22	54	-0.78

Test Mode: 802.11n 40MHz (DAC1)

Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3 (lowest)	2310-2390	PK	71.42	74	-2.58
		AV	53.49	54	-0.51
9 (highest)	2483.5-2500	PK	64.87	74	-9.13
		AV	53.67	54	-0.33

Dual Tx

Test Mode: 802.11n 20MHz (DAC0&DAC1)

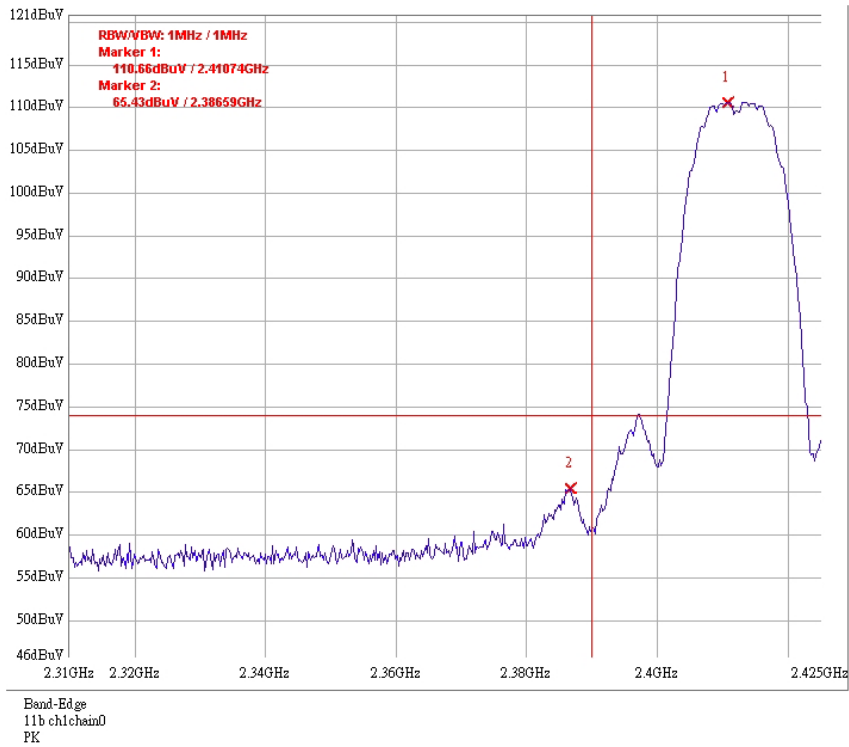
Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
1 (lowest)	2310-2390	PK	67.38	74	-6.62
		AV	52.77	54	-1.23
11 (highest)	2483.5-2500	PK	64.58	74	-9.42
		AV	51.80	54	-2.2

Test Mode: 802.11n 40MHz (DAC0&DAC1)

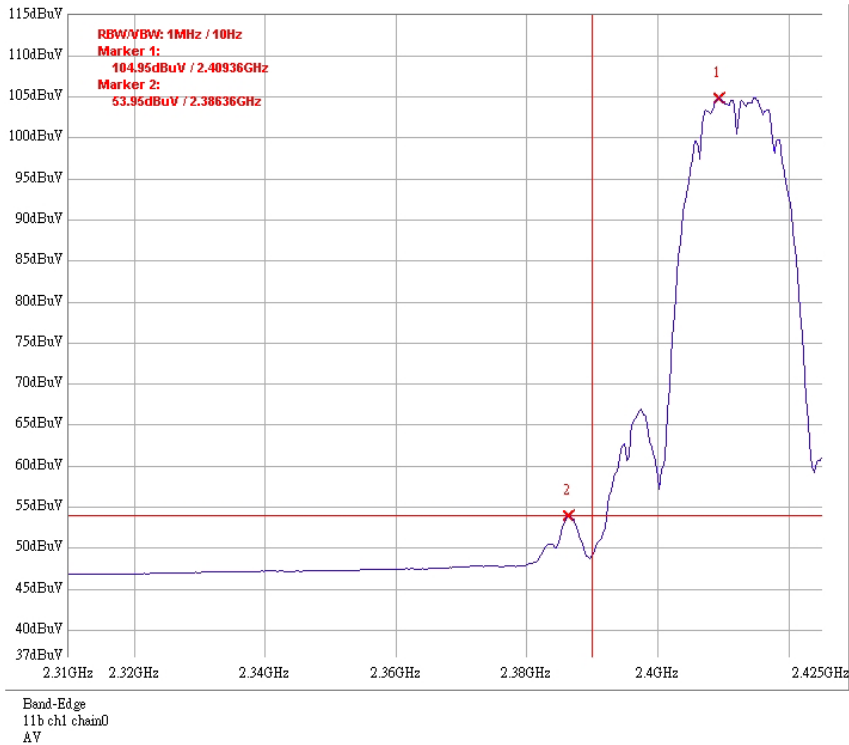
Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3 (lowest)	2310-2390	PK	67.58	74	-6.42
		AV	53.92	54	-0.08
9 (highest)	2483.5-2500	PK	63.72	74	-10.28
		AV	51.98	54	-2.02

Single Tx

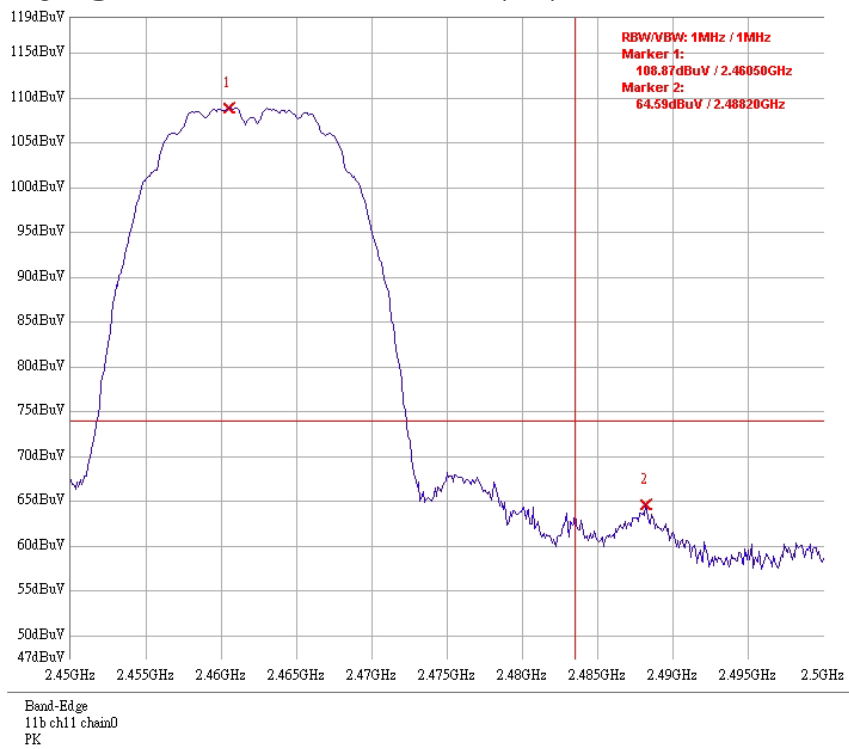
DAC0: Bandage @ 802.11b mode channel 1 (PK)



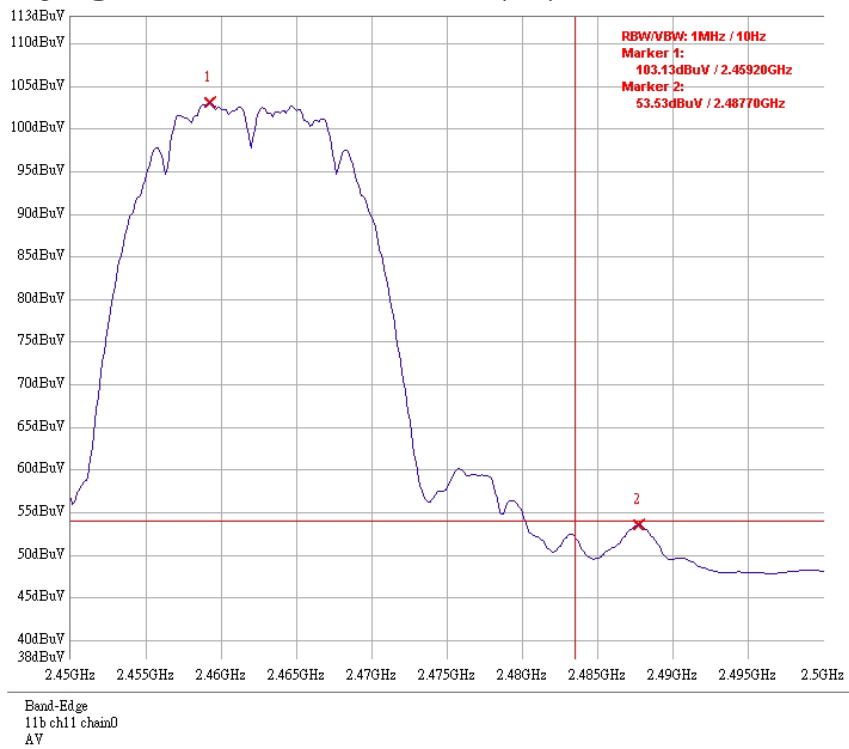
DAC0: Bandage @ 802.11b mode channel 1 (AV)



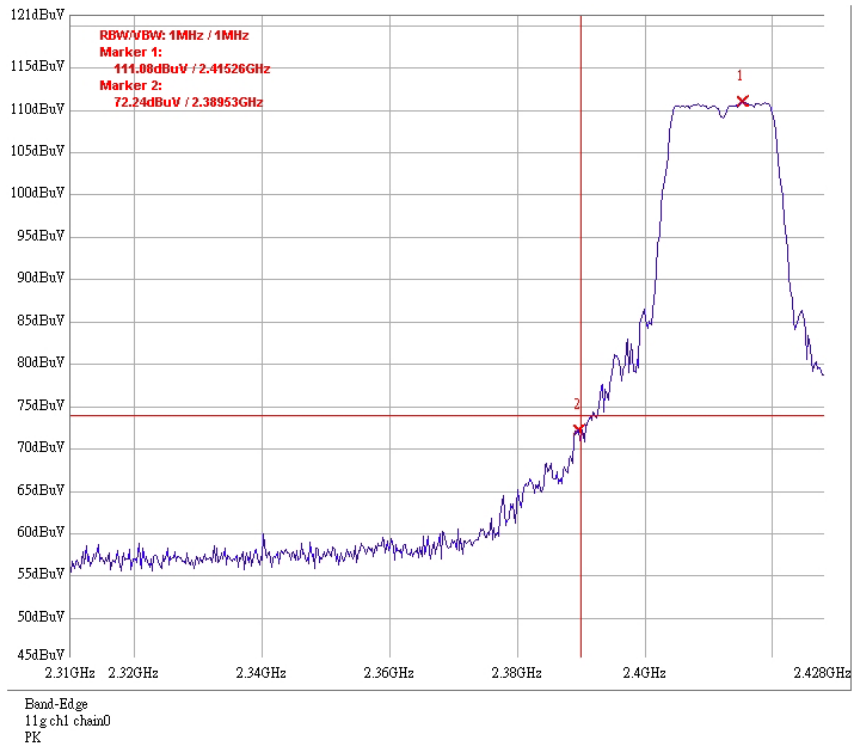
DAC0: Bandage @ 802.11b mode channel 11 (PK)



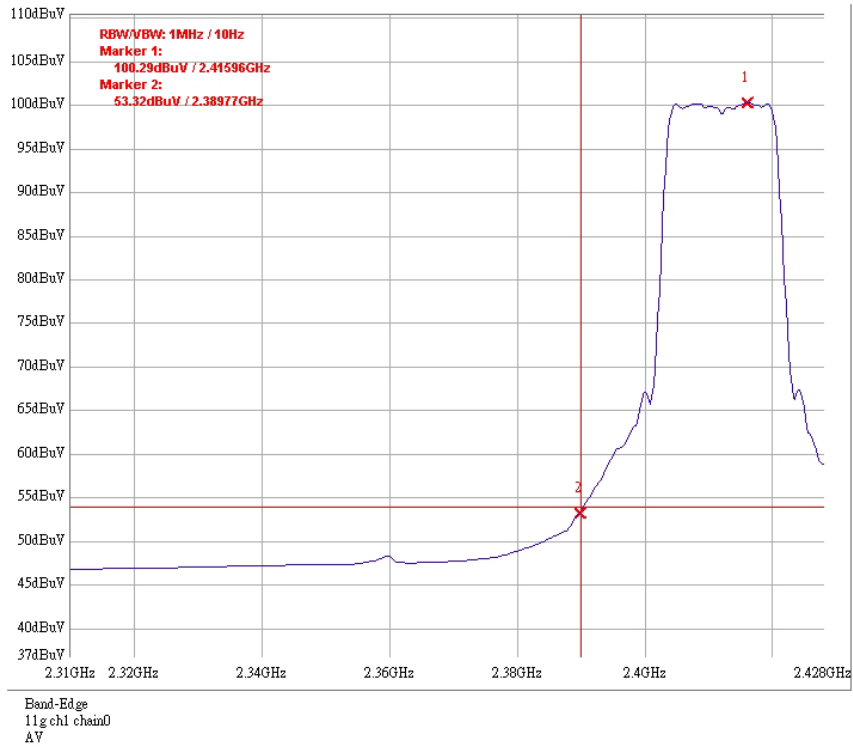
DAC0: Bandage @ 802.11b mode channel 11 (AV)



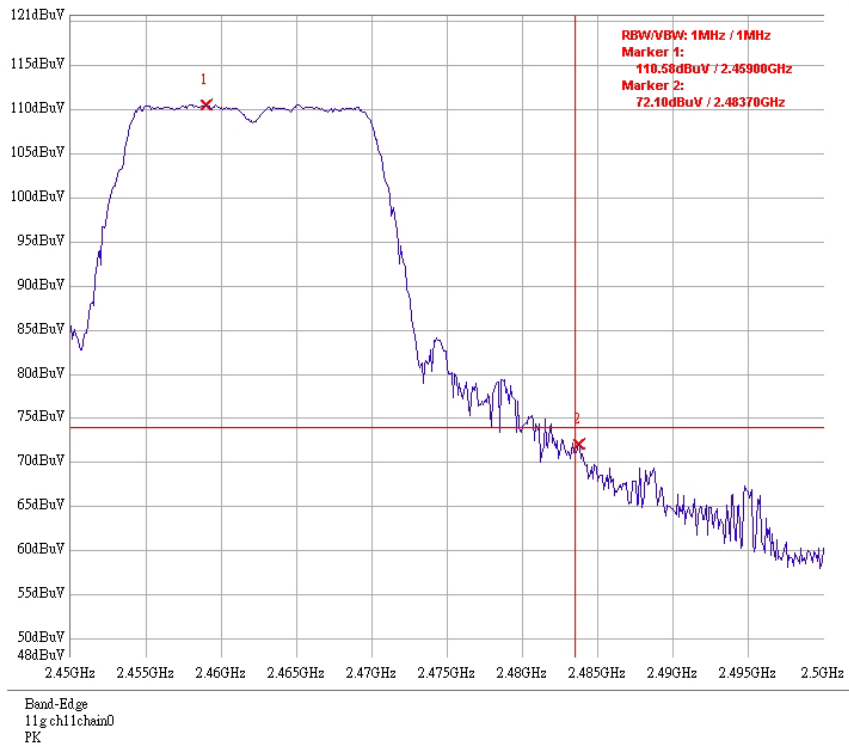
DAC0: Bandage @ 802.11g mode channel 1 (PK)



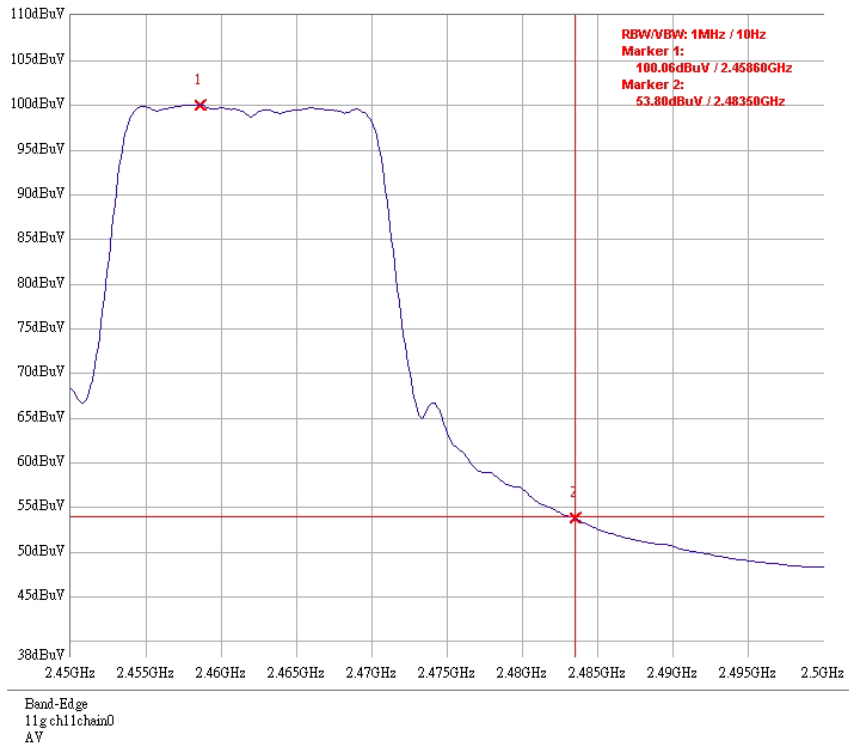
DAC0: Bandage @ 802.11g mode channel 1 (AV)



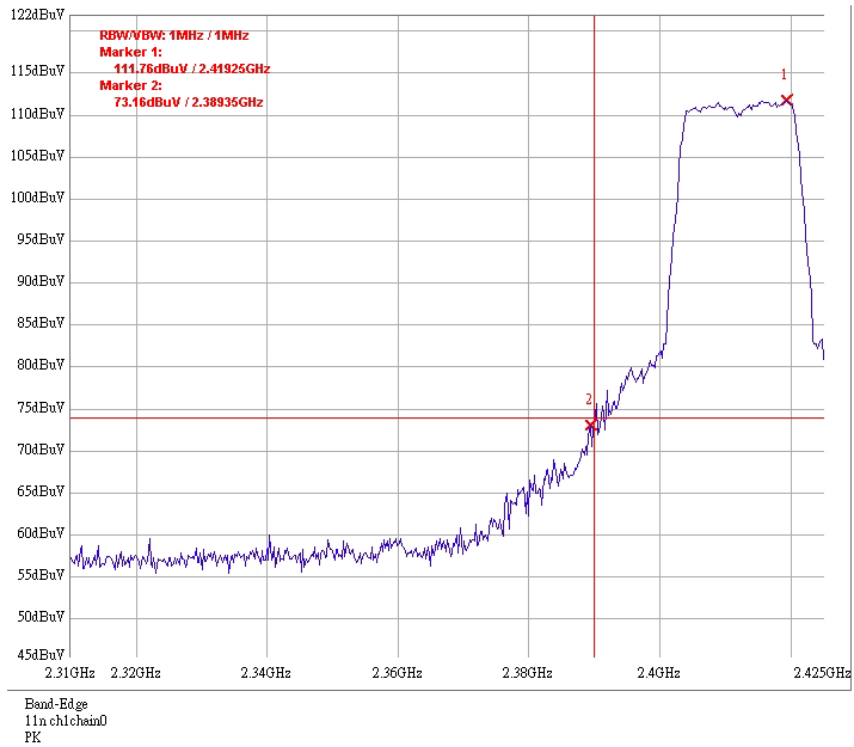
DAC0: Bandage @ 802.11g mode channel 11 (PK)



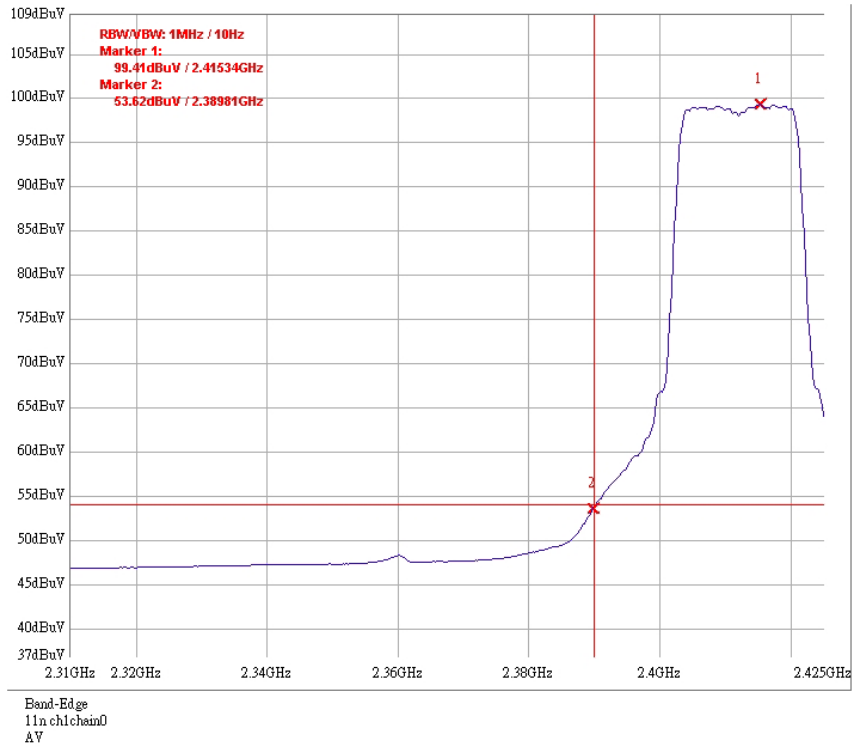
DAC0: Bandage @ 802.11g mode channel 11 (AV)



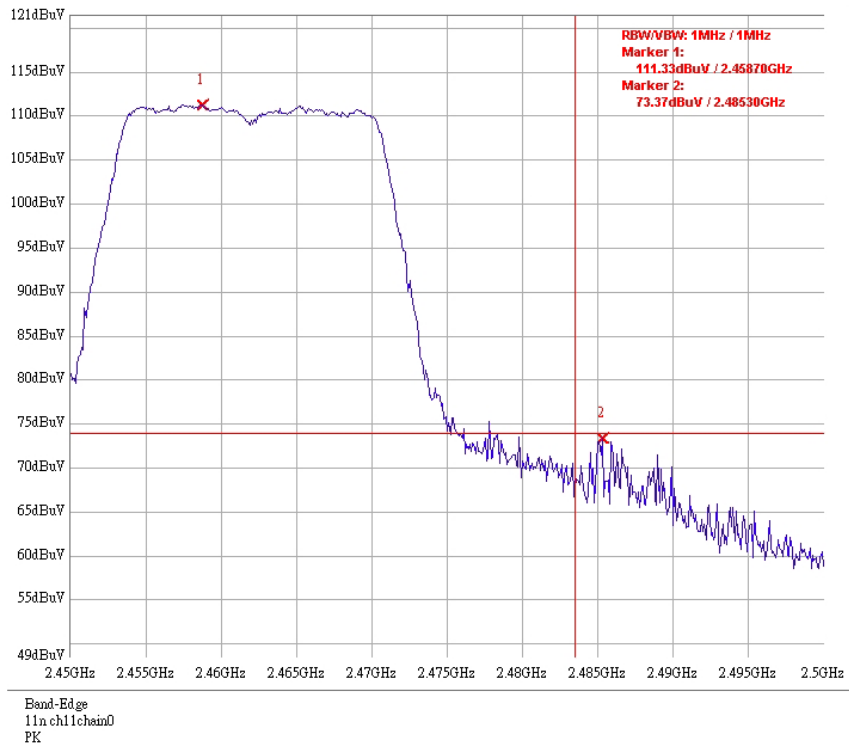
DAC0: Bandage @ Draft 802.11n 20MHz mode channel 1 (PK)



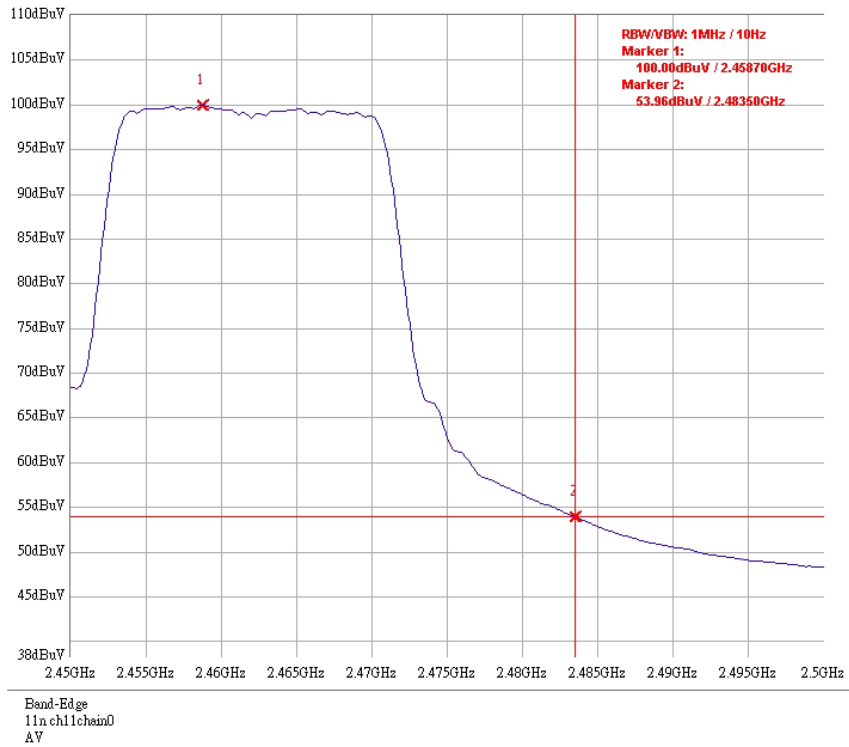
DAC0: Bandage @ Draft 802.11n 20MHz mode channel 1 (AV)



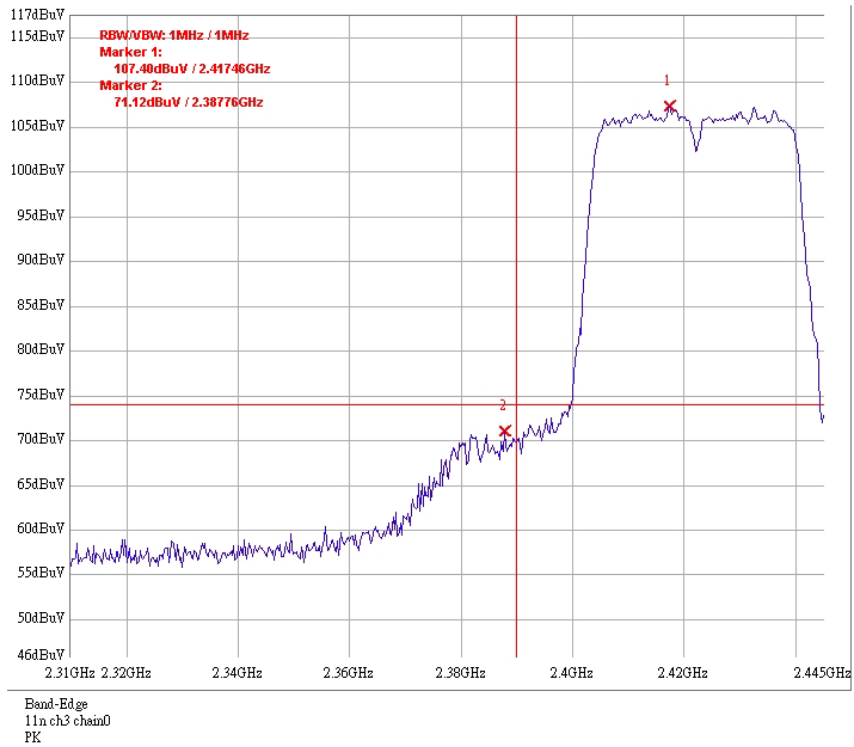
DAC0: Bandage @ Draft 802.11n 20MHz mode channel 11 (PK)



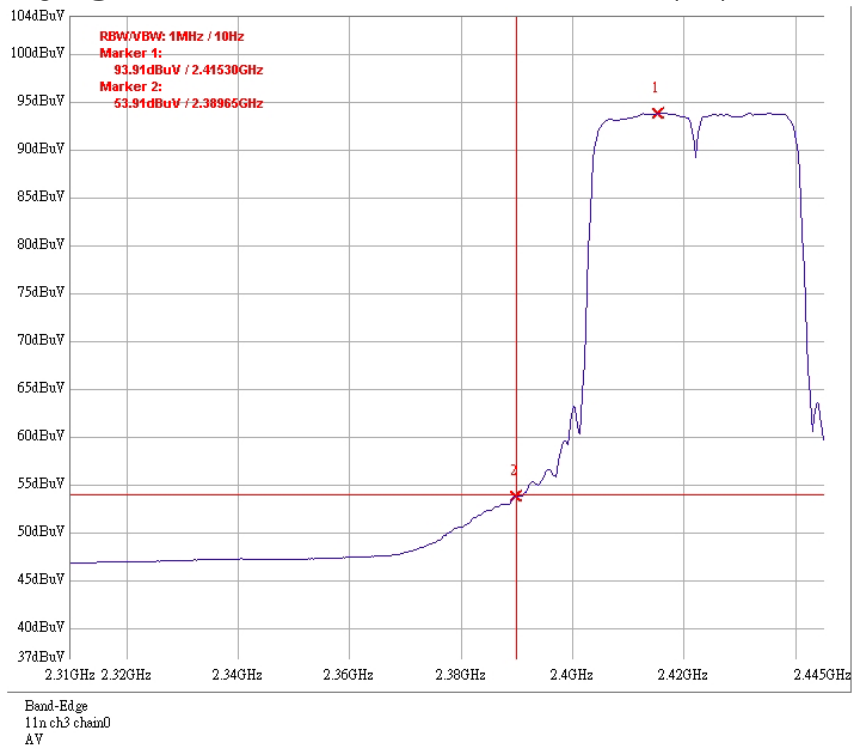
DAC0: Bandage @ Draft 802.11n 20MHz mode channel 11 (AV)



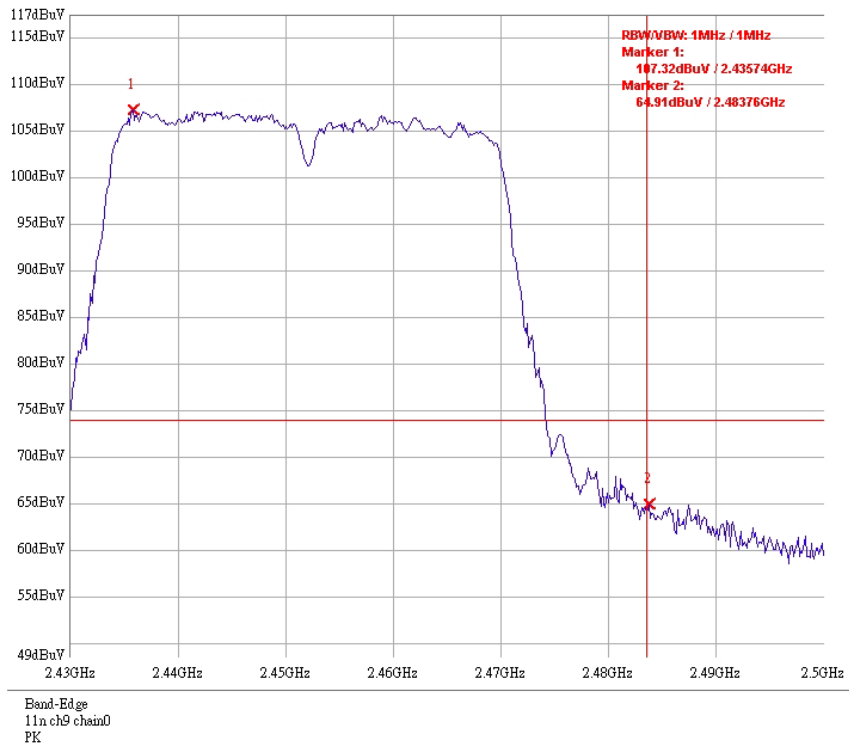
DAC0: Bandage @ Draft 802.11n 40MHz mode channel 3 (PK)



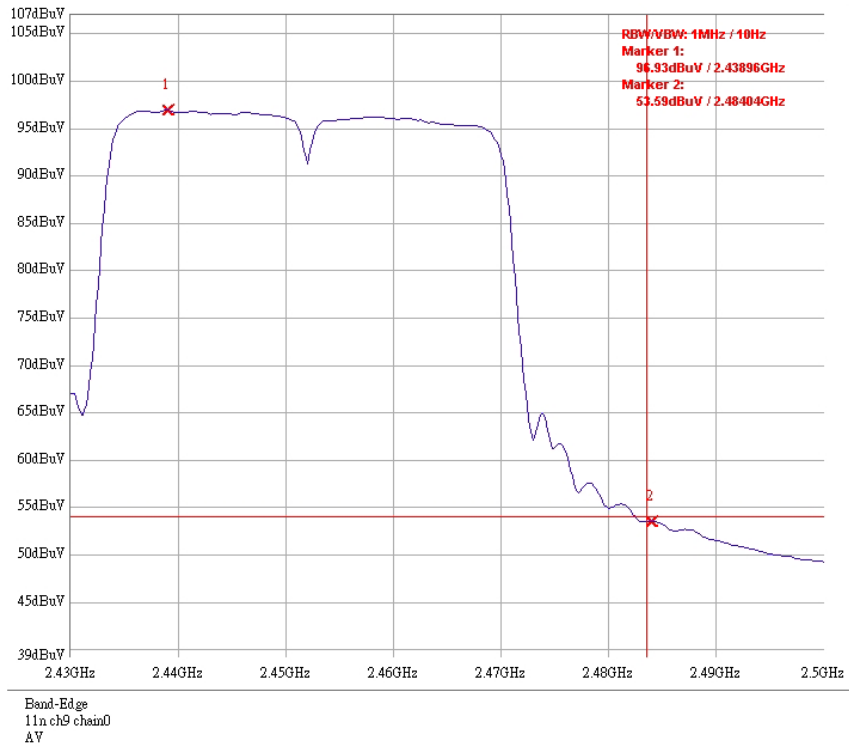
DAC0: Bandage @ Draft 802.11n 40MHz mode channel 3 (AV)



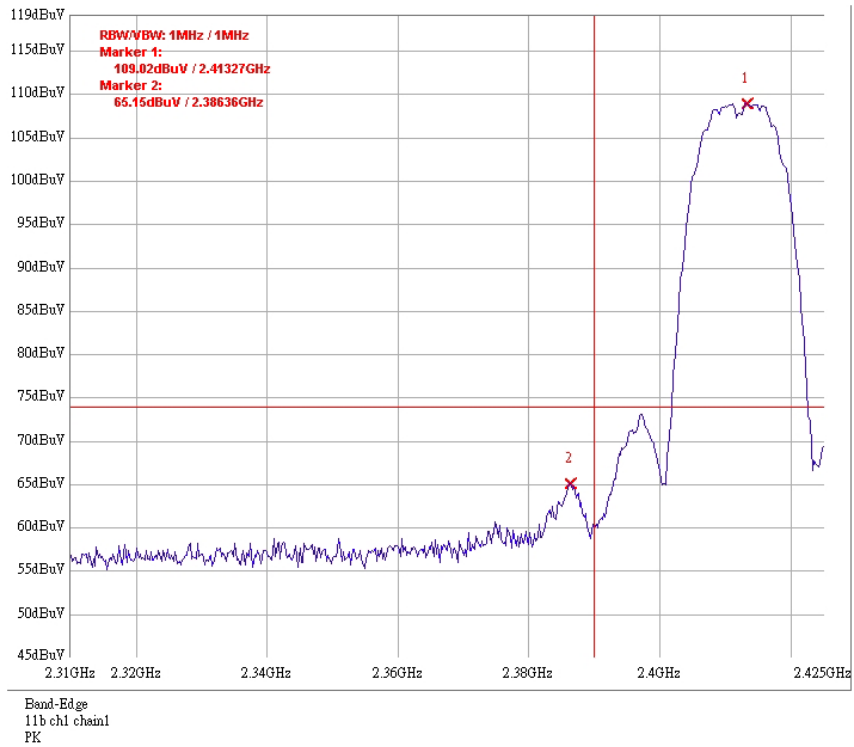
DAC0: Bandage @ Draft 802.11n 40MHz mode channel 9 (PK)



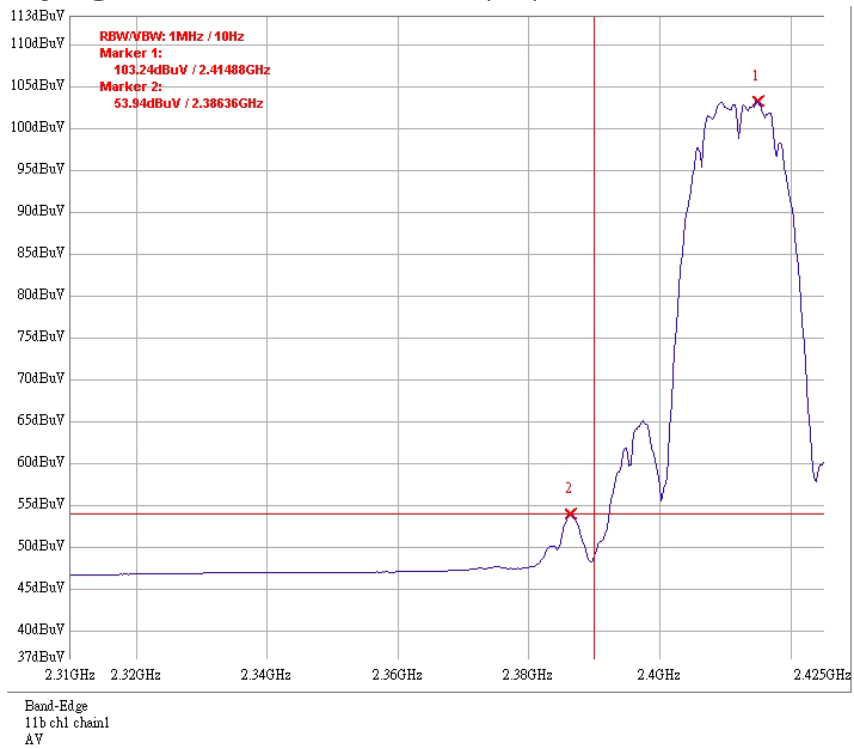
DAC0: Bandage @ Draft 802.11n 40MHz mode channel 9 (AV)



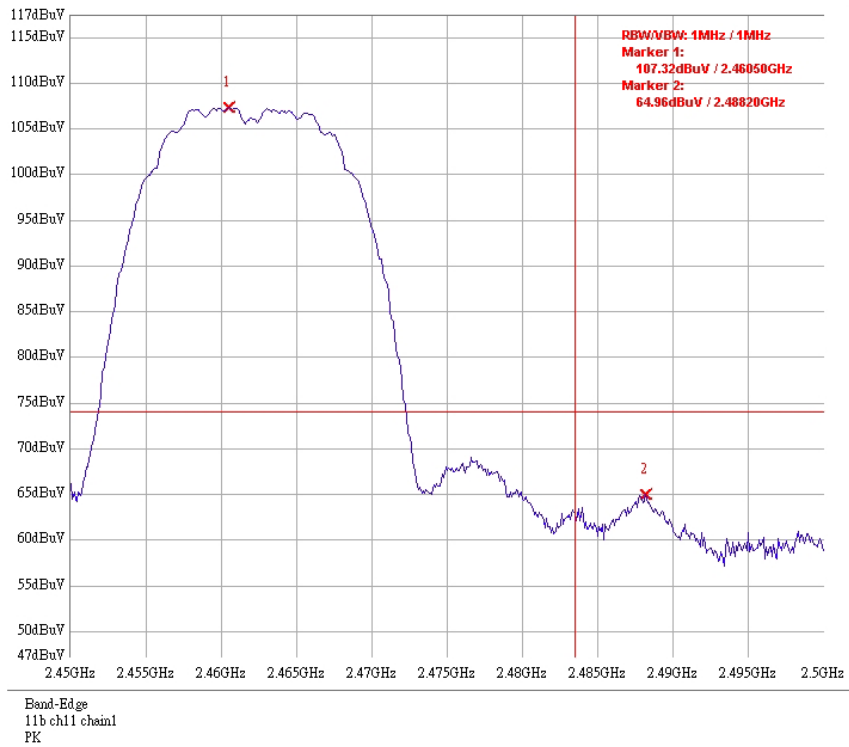
DAC1: Bandage @ 802.11b mode channel 1 (PK)



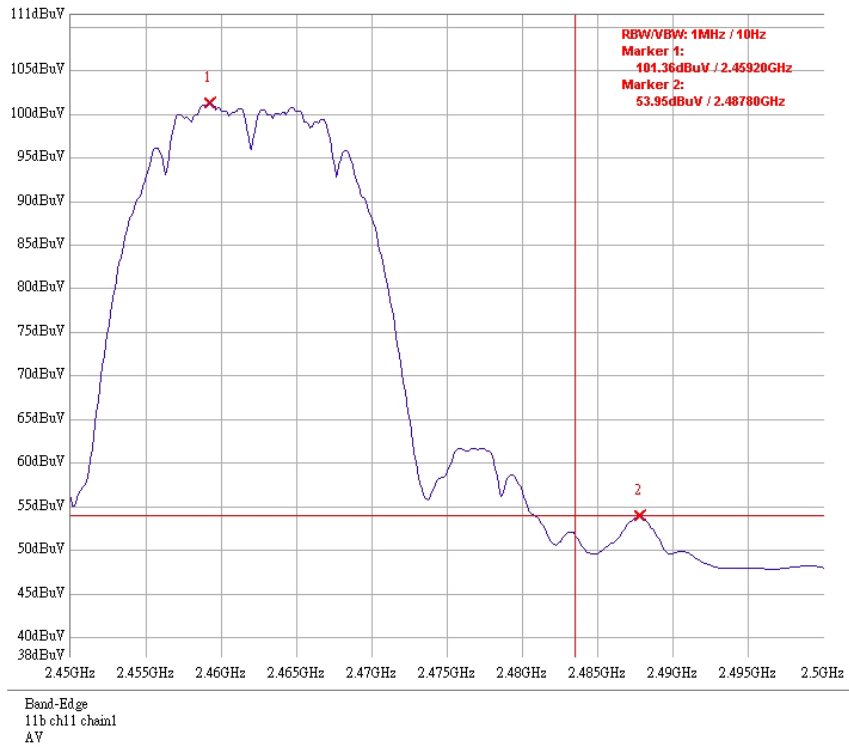
DAC1: Bandage @ 802.11b mode channel 1 (AV)



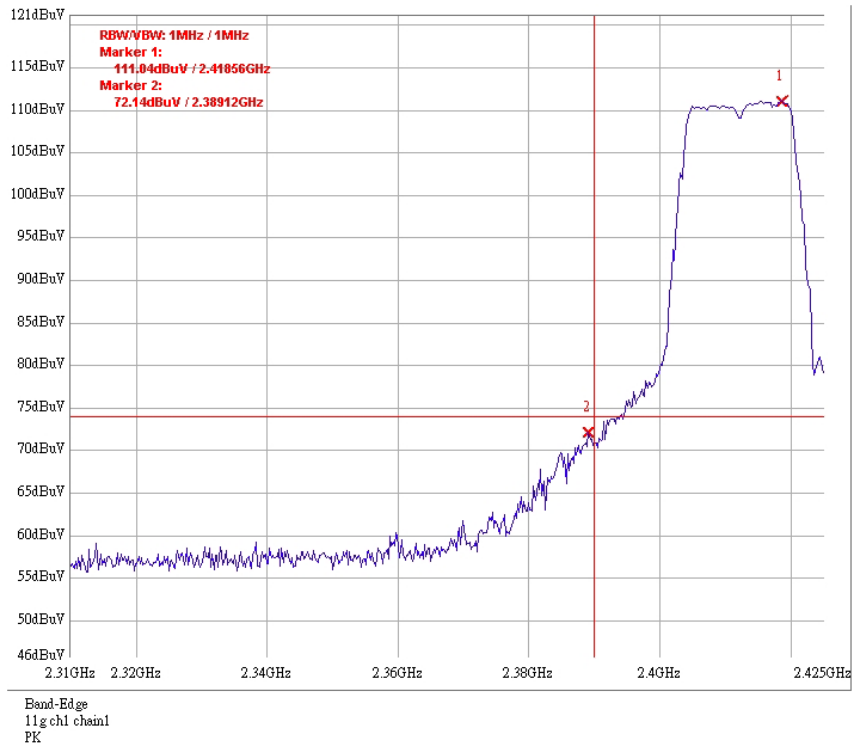
DAC1: Bandage @ 802.11b mode channel 11 (PK)



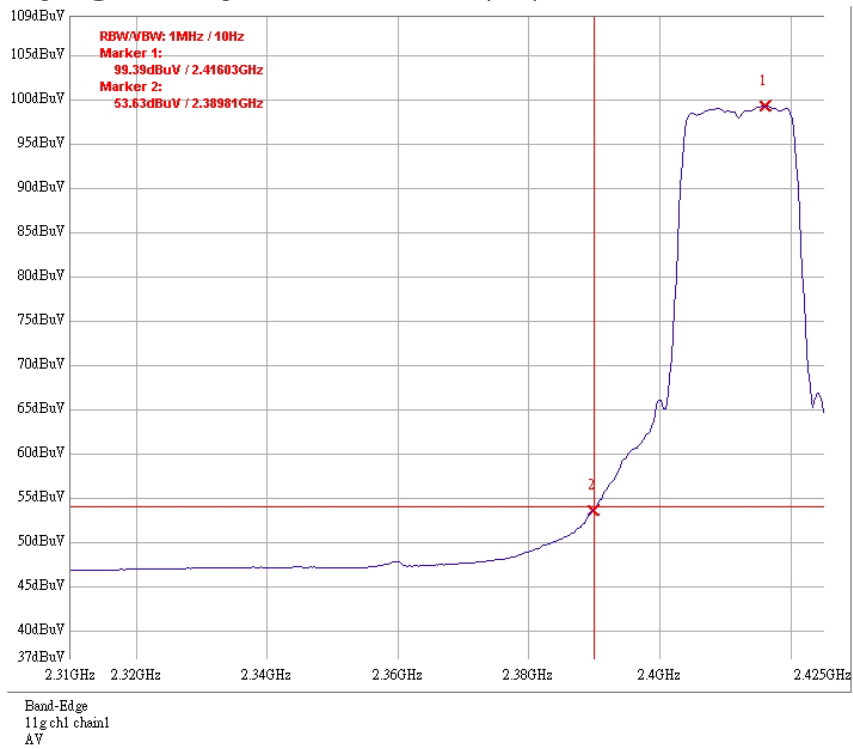
DAC1: Bandage @ 802.11b mode channel 11 (AV)



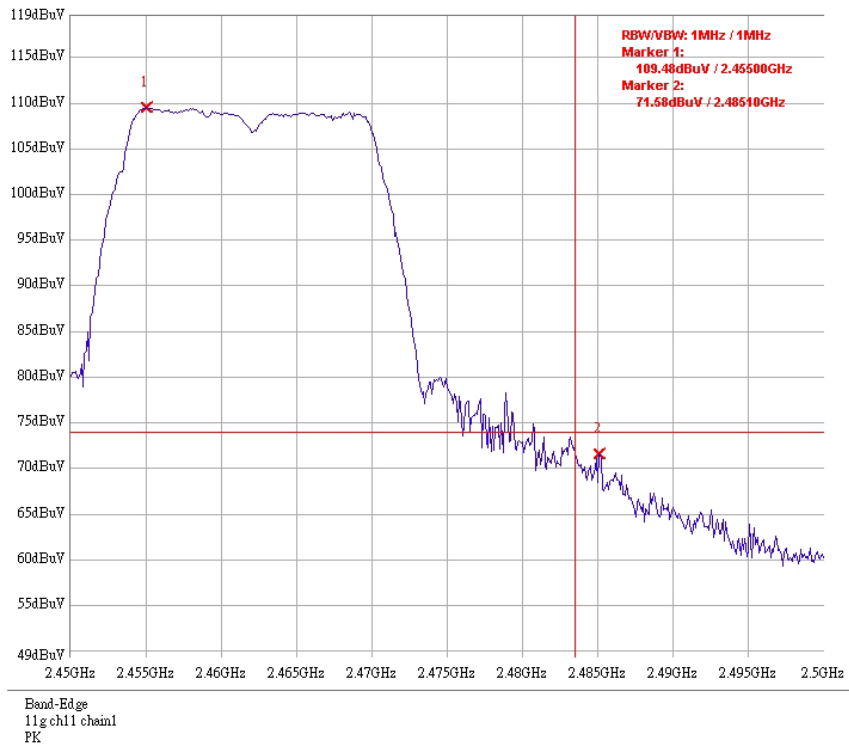
DAC1: Bandage @ 802.11g mode channel 1 (PK)



DAC1: Bandage @ 802.11g mode channel 1 (AV)



DAC1: Bandage @ 802.11g mode channel 11 (PK)



DAC1: Bandage @ 802.11g mode channel 11 (AV)

