



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11a Tx at channel 165 (DACB)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8140.00	PK	V	36.75	46.12	40.4	49.77	54	-4.23
8140.00	PK	H	36.75	46.12	39.6	48.97	54	-5.03

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Test Condition : 802.11n 20MHz Tx at channel 1 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3360.00	PK	V	35.54	34.62	49.89	48.97	54	-5.03
3360.00	PK	H	35.54	34.62	43.23	42.31	54	-11.69

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Test Condition : 802.11n 20MHz Tx at channel 6 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3390.00	PK	V	35.54	34.62	47.26	46.34	54	-7.66
4874.00	PK	V	36.07	37.77	43.55	45.25	54	-8.75
4874.00	PK	H	36.07	37.77	40.99	42.69	54	-11.31

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Test Condition : 802.11n 20MHz Tx at channel 11 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3450.00	PK	V	35.54	34.62	44.73	43.81	54	-10.19
4924.00	PK	V	36.07	37.77	47.3	49	54	-5
4924.00	PK	H	36.07	37.77	40.89	42.59	54	-11.41

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11n 20MHz Tx at channel 149 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7430.00	PK	V	36.18	43.97	40.38	48.17	54	-5.83
7430.00	PK	H	36.18	43.97	40.31	48.1	54	-5.9

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11n 20MHz Tx at channel 157 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7620.00	PK	V	36.59	45.41	39.21	48.03	54	-5.97
7620.00	PK	H	36.59	45.41	39.14	47.96	54	-6.04

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11n 20MHz Tx at channel 165 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7910.00	PK	V	36.59	45.41	39.07	47.89	54	-6.11
7910.00	PK	H	36.59	45.41	39	47.82	54	-6.18

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Test Condition : 802.11n 40MHz Tx at channel 3 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3360.00	PK	V	35.54	34.62	46.83	45.91	54	-8.09
4844.00	PK	V	36.07	37.77	45.45	47.15	54	-6.85
4844.00	PK	H	36.07	37.77	40.65	42.35	54	-11.65

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.





EUT : DSM-750  
Test Condition : 802.11n 40MHz Tx at channel 6 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3390.00	PK	V	35.54	34.62	47.94	47.02	54	-6.98
4874.00	PK	V	36.07	37.77	44.02	45.72	54	-8.28
4874.00	PK	H	36.07	37.77	39.56	41.26	54	-12.74

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Test Condition : 802.11n 40MHz Tx at channel 9 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3420.00	PK	V	35.54	34.62	45.37	44.45	54	-9.55
4904.00	PK	V	36.07	37.77	45.4	47.1	54	-6.9
4904.00	PK	V	36.07	37.77	40.6	42.3	54	-11.7

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11n 40MHz Tx at channel 151 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
8010.00	PK	V	36.75	46.12	38.38	47.75	54	-6.25
8010.00	PK	H	36.75	46.12	38.31	47.68	54	-6.32

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.



EUT : DSM-750  
Frequency band : 5745MHz ~ 5825MHz  
Test Condition : 802.11n 40MHz Tx at channel 159 (DACA&B)

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
7150.00	PK	V	36.18	43.97	39.82	47.61	54	-6.39
7150.00	PK	H	36.18	43.97	39.75	47.54	54	-6.46

Remark:

1. Correction Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Correction Factor – Preamp. Gain
3. The data values listed above which are higher than the system noise floor.

## 7. Power Spectrum Density test (FCC 15.247)

### 7.1 Operating environment

Temperature: 23 °C  
 Relative Humidity: 50 %  
 Atmospheric Pressure 1023 hPa

### 7.2 Test setup & procedure

The power spectrum density per FCC §15.247(e) was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 3kHz, the video bandwidth set at 10kHz, a span of 1.5MHz, and the sweep time set at 500 seconds. Power Density was read directly correction was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel). The Power Spectral Density measured result is in the following table.

### 7.3 Measured data of Power Spectrum Density test results

Single Tx

Mode	Channel	Frequency (MHz)	Data rate Mbps	PPSD (dBm)		Limit (dBm)	Result
				DACA	DACB		
11b	1	2412	1	-11.52	-12.14	8	Pass
	6	2437		-11.36	-11.57	8	Pass
	11	2462		-10.85	-11.53	8	Pass
11g	1	2412	6	-12.09	-15.35	8	Pass
	6	2437		-14.03	-15.55	8	Pass
	11	2462		-14.29	-14.54	8	Pass
11a	149	5745	6	-12.04	-10.43	8	Pass
	157	5785		-10.67	-10.99	8	Pass
	165	5825		-10.41	-11.48	8	Pass



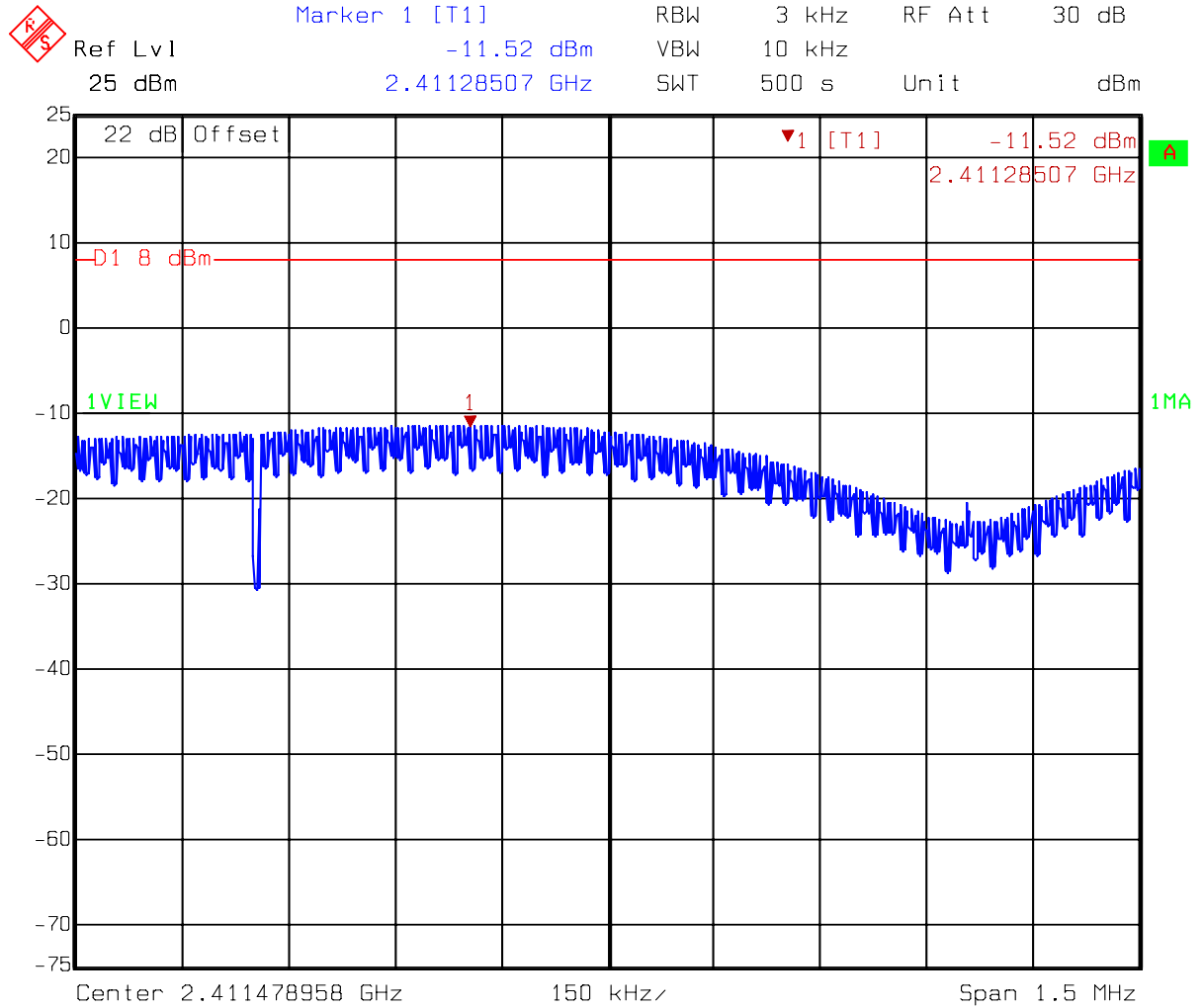
Dual Tx

Mode	Channel	Frequency (MHz)	Data rate Mbps	PPSD (dBm)		Total PPSSD		Limit (dBm)	Margin (dB)
				DACA	DACB	mW	dBm		
11n (20M)	1	2412	6.5	-16.18	-13.78	0.07	-11.81	8	-19.81
	6	2437		-14.84	-17.00	0.05	-12.78	8	-20.78
	11	2462		-16.49	-16.22	0.05	-13.34	8	-21.34
11n (20M)	149	5745	6.5	-12.99	-14.08	0.09	-10.49	8	-18.49
	157	5785		-14.05	-12.76	0.09	-10.35	8	-18.35
	165	5825		-12.65	-14.50	0.09	-10.47	8	-18.47
11n (40M)	3	2422	13	-20.24	-21.16	0.02	-17.67	8	-25.67
	6	2437		-20.72	-20.47	0.02	-17.58	8	-25.58
	9	2452		-19.14	-21.25	0.02	-17.06	8	-25.06
11n (40M)	151	5755	13	-16.22	-16.11	0.05	-13.15	8	-21.15
	159	5795		-16.90	-17.14	0.04	-14.01	8	-22.01

Please see the plot below.



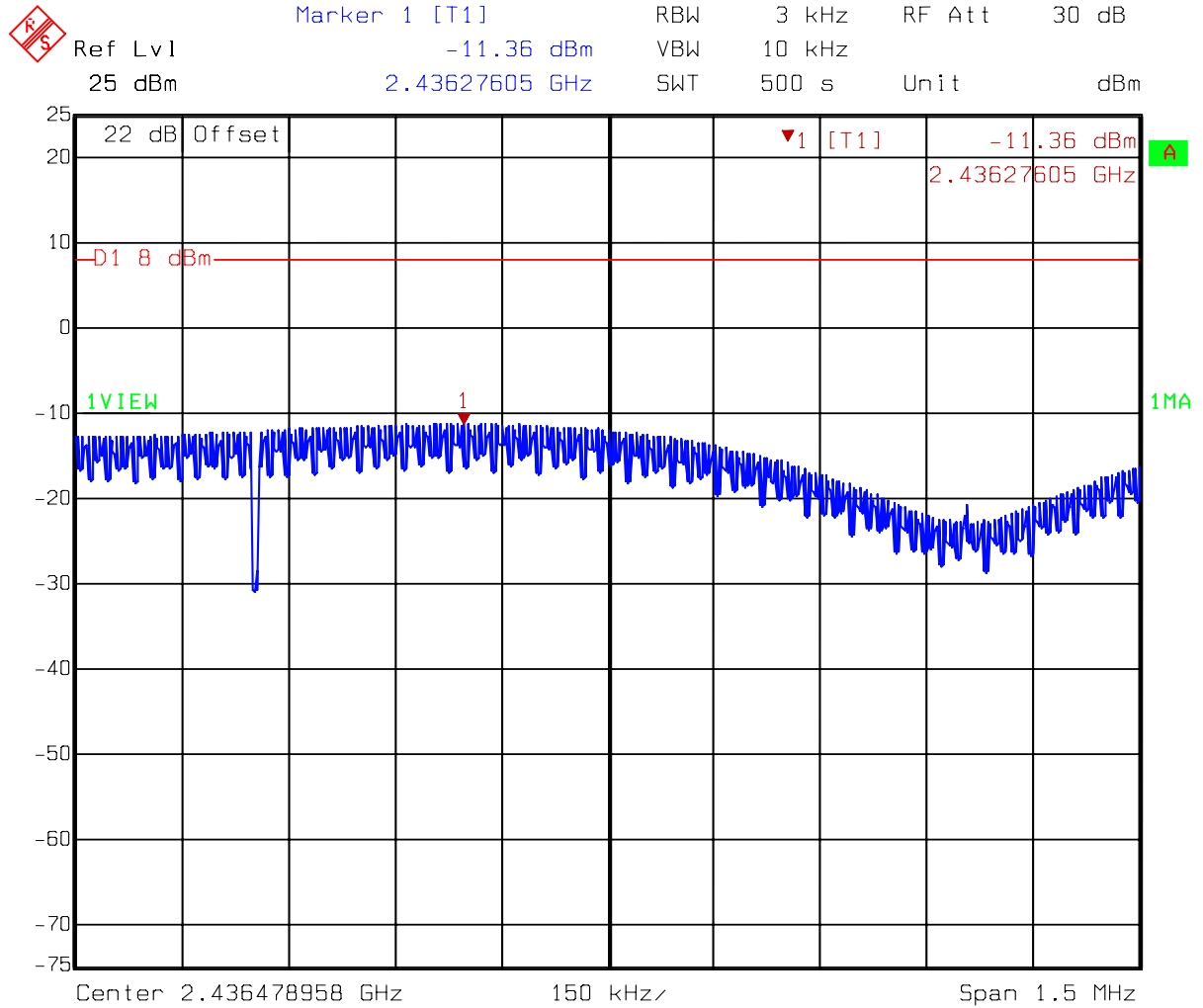
**Single Tx**  
**DACA: 802.11b mode CH1**



Title: Power density  
Comment A: CH 1 at 802.11b mode  
Date: 08.NOV.2007 12:01:21



**Single Tx**  
**DACA: 802.11b mode CH6**

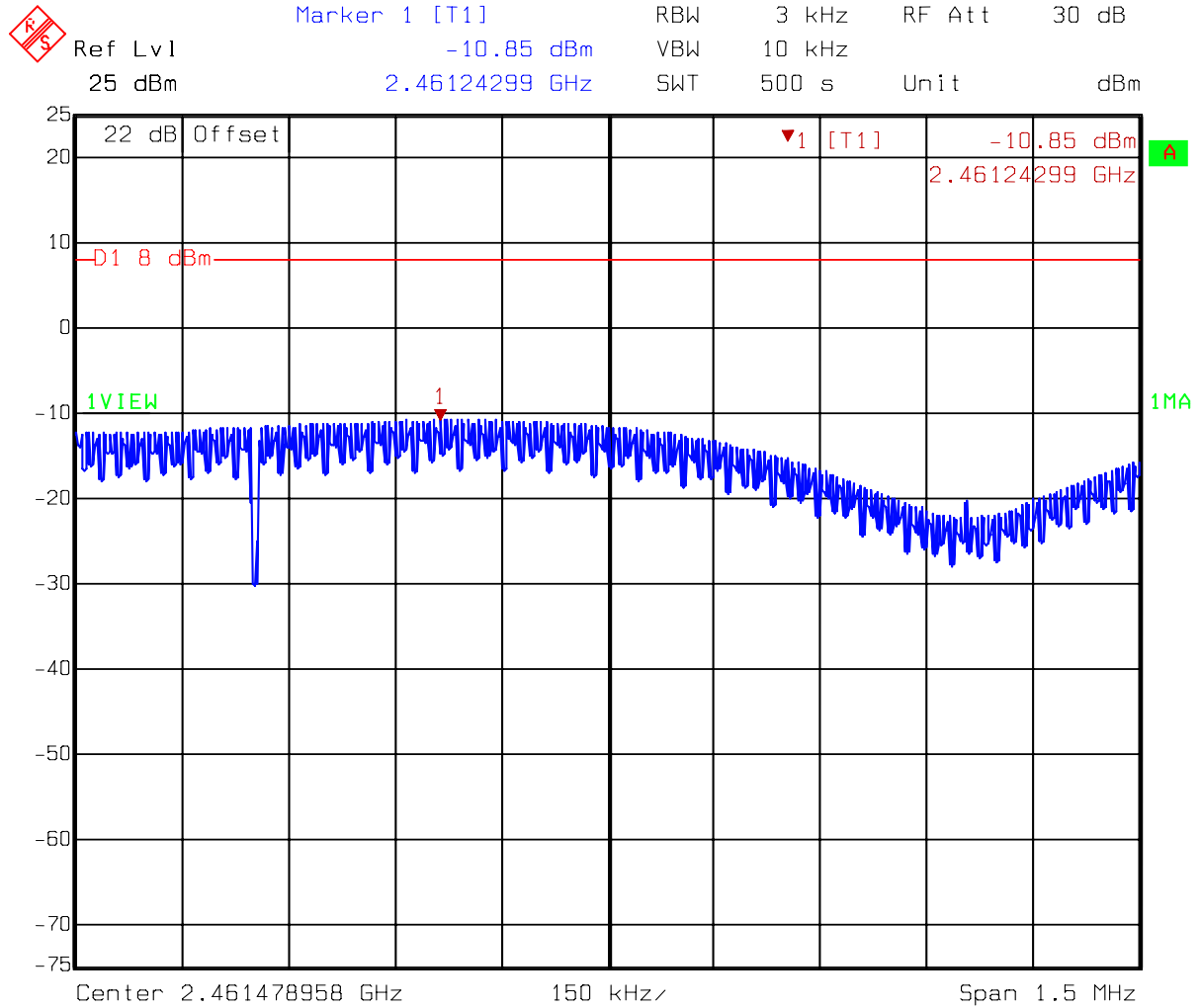


Title: Power density  
Comment A: CH 6 at 802.11b mode  
Date: 08.NOV.2007 12:06:01





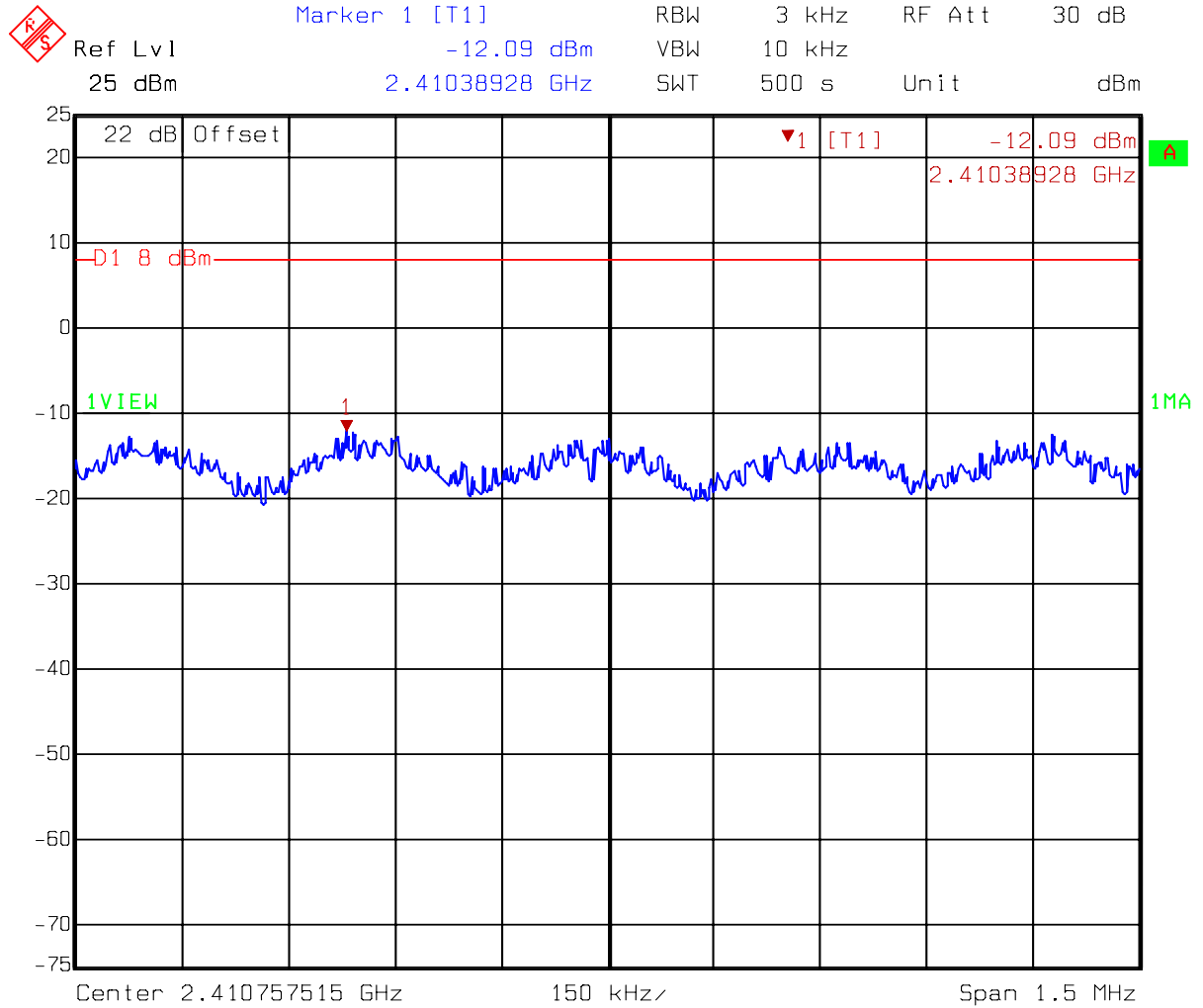
**Single Tx**  
**DACA: 802.11b mode CH11**



Title:      Power density  
Comment A: CH 11 at 802.11b mode  
Date:      08.NOV.2007 12:09:07



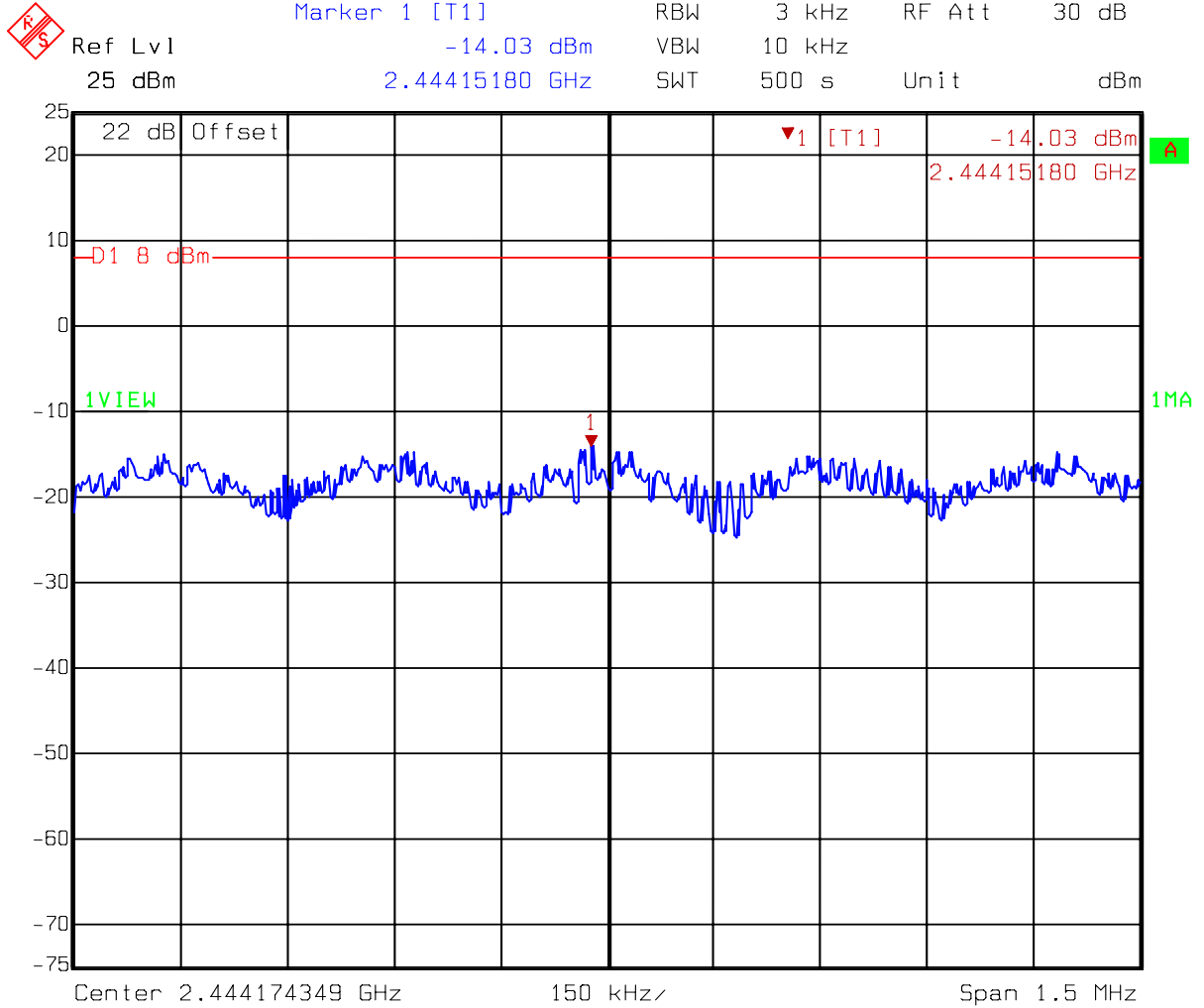
**Single Tx**  
**DACA: 802.11g mode CH1**



Title: Power density  
Comment A: CH 1 at 802.11g mode  
Date: 08.NOV.2007 13:23:22



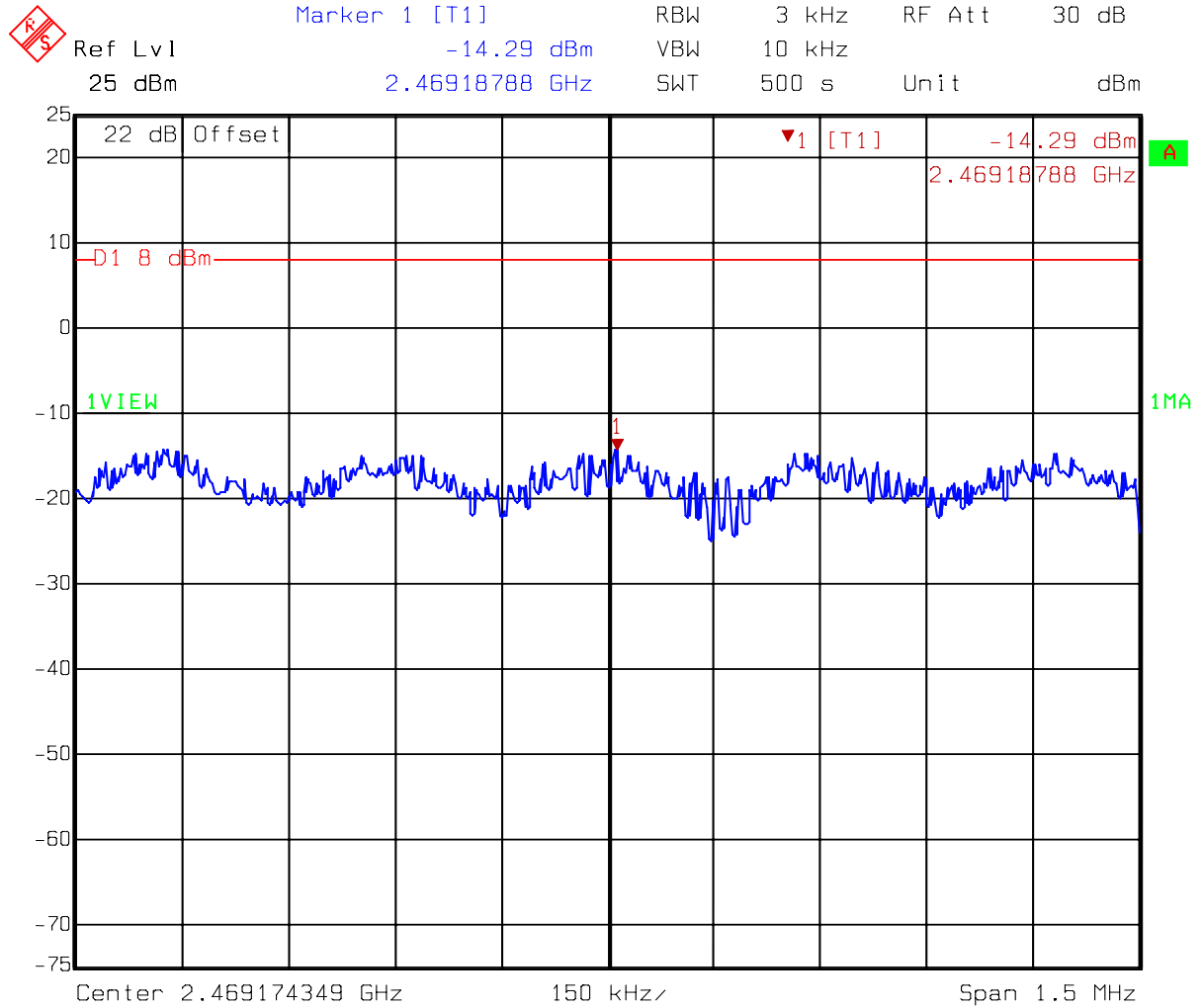
**Single Tx**  
**DACA: 802.11g mode CH6**



Title: Power density  
Comment A: CH 6 at 802.11g mode  
Date: 08.NOV.2007 13:17:27



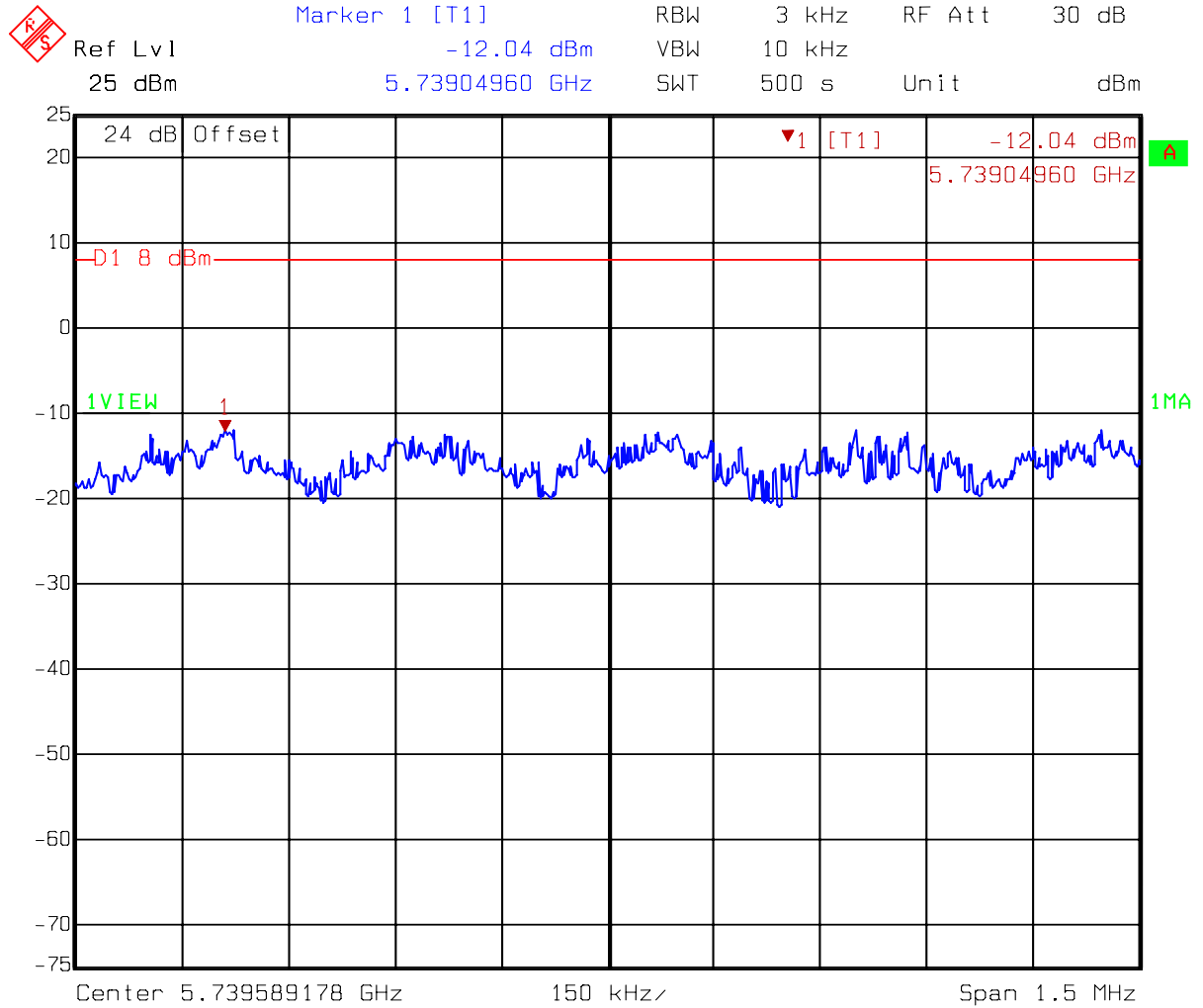
**Single Tx**  
**DACA: 802.11g mode CH11**



Title: Power density  
Comment A: CH 11 at 802.11g mode  
Date: 08.NOV.2007 12:14:41



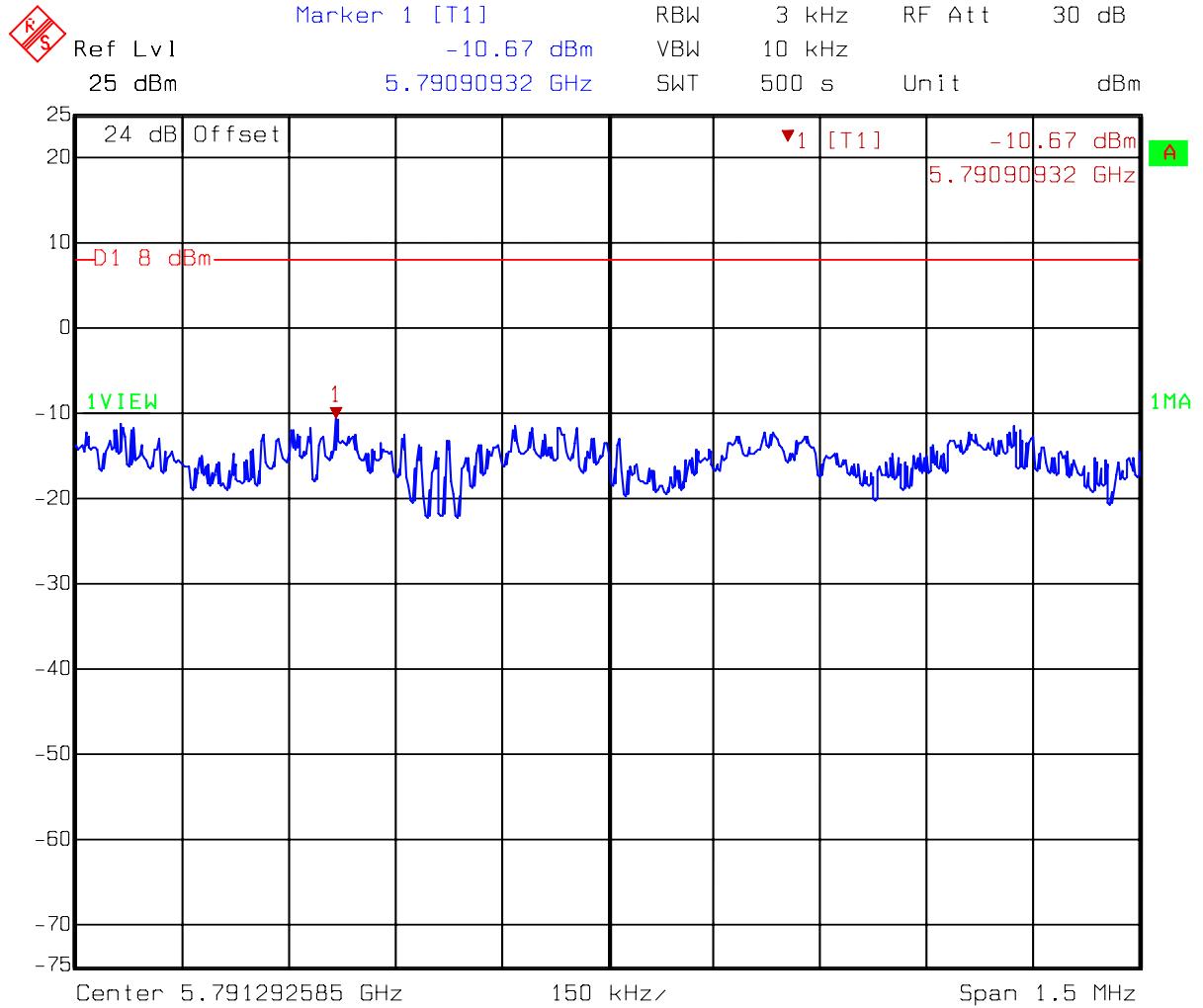
**Single Tx**  
**DACA: 802.11a mode CH149**



Title: Power density  
Comment A: CH 149 at 802.11a mode  
Date: 08.NOV.2007 13:39:02



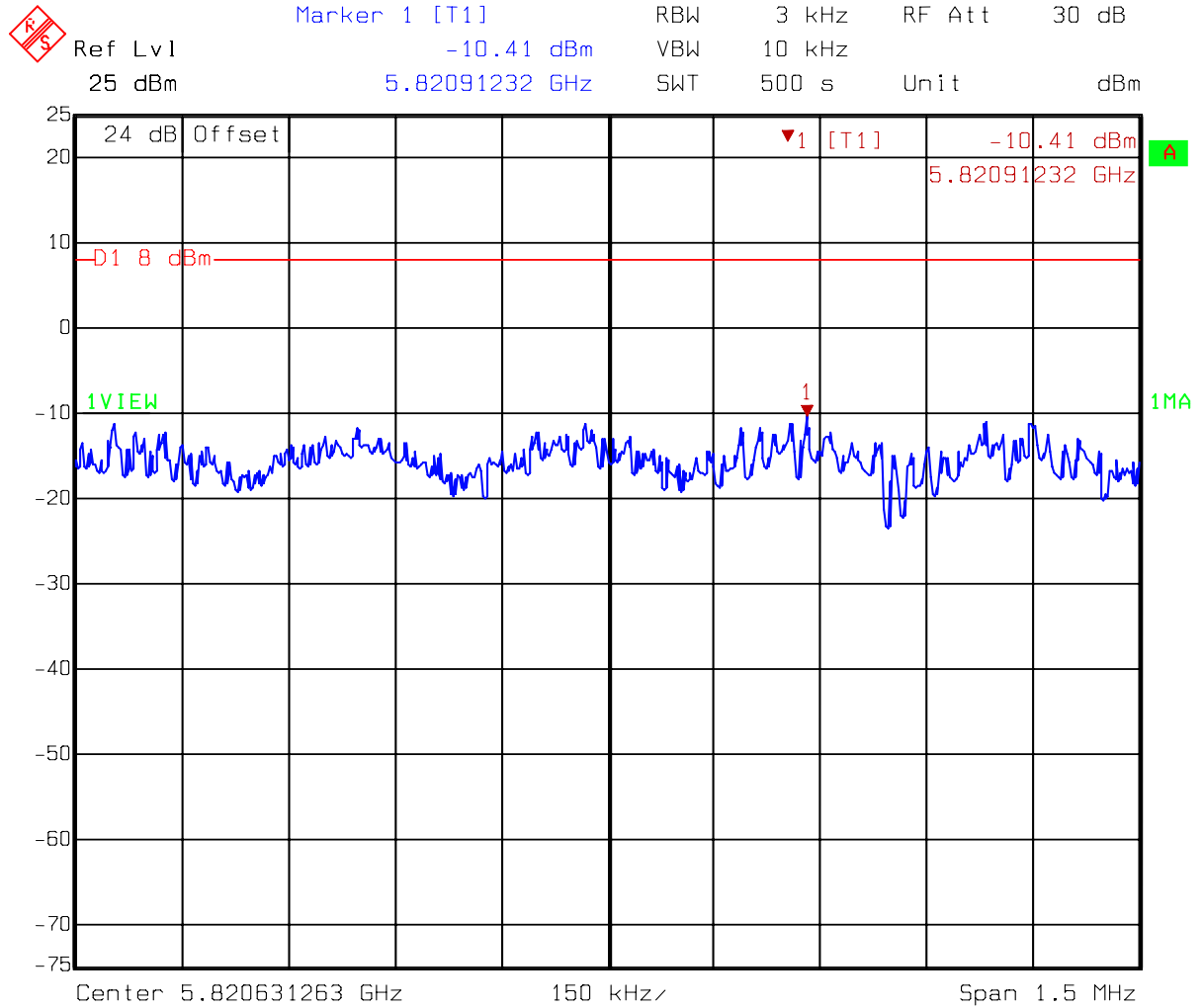
**Single Tx**  
**DACA: 802.11a mode CH157**



Title:            Power density  
Comment A:    CH 157 at 802.11a mode  
Date:            08.NOV.2007 13:43:16



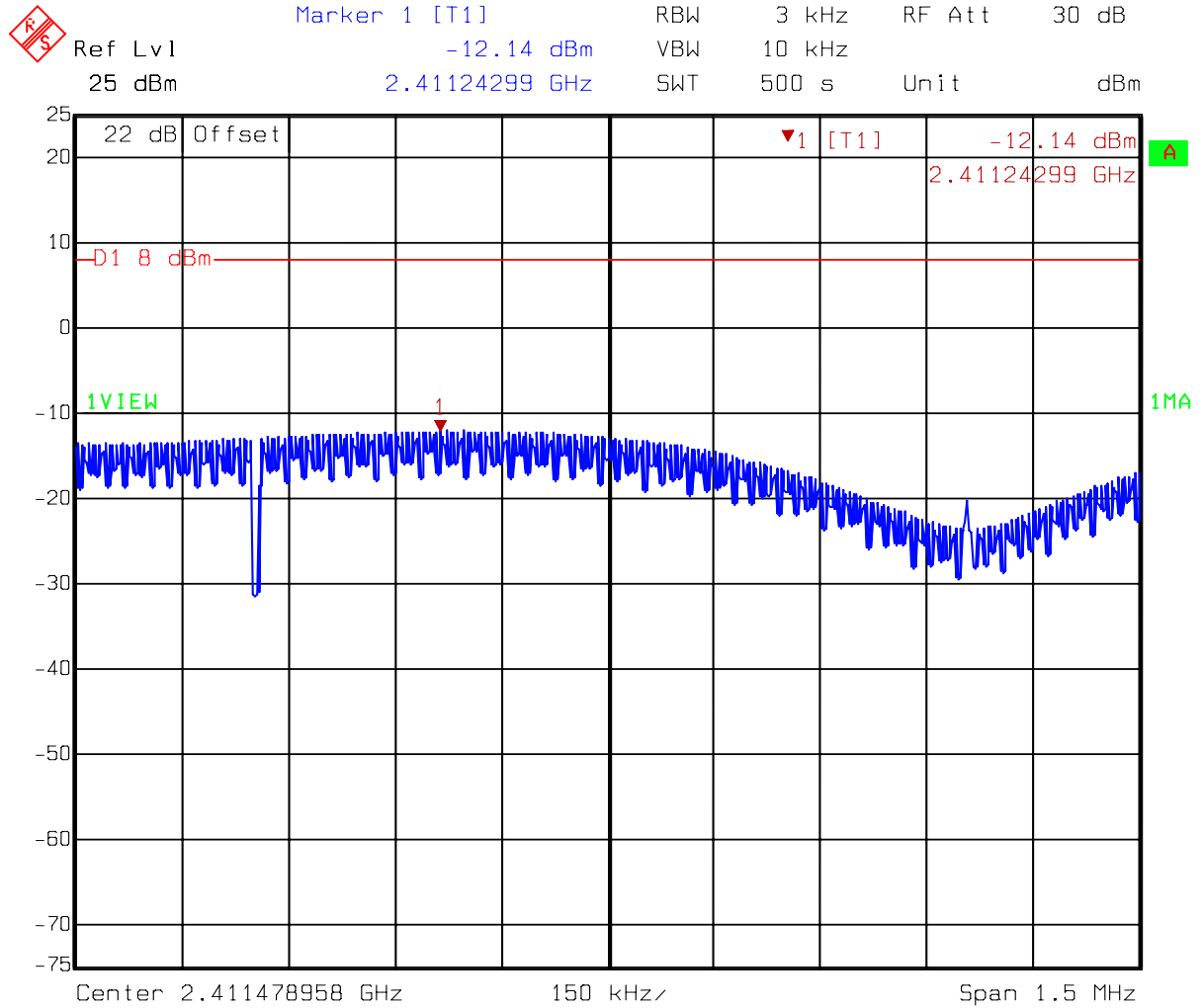
**Single Tx**  
**DACA: 802.11a mode CH165**



Title: Power density  
Comment A: CH 165 at 802.11a mode  
Date: 08.NOV.2007 13:47:00



**Single Tx**  
**DACB: 802.11b mode CH1**

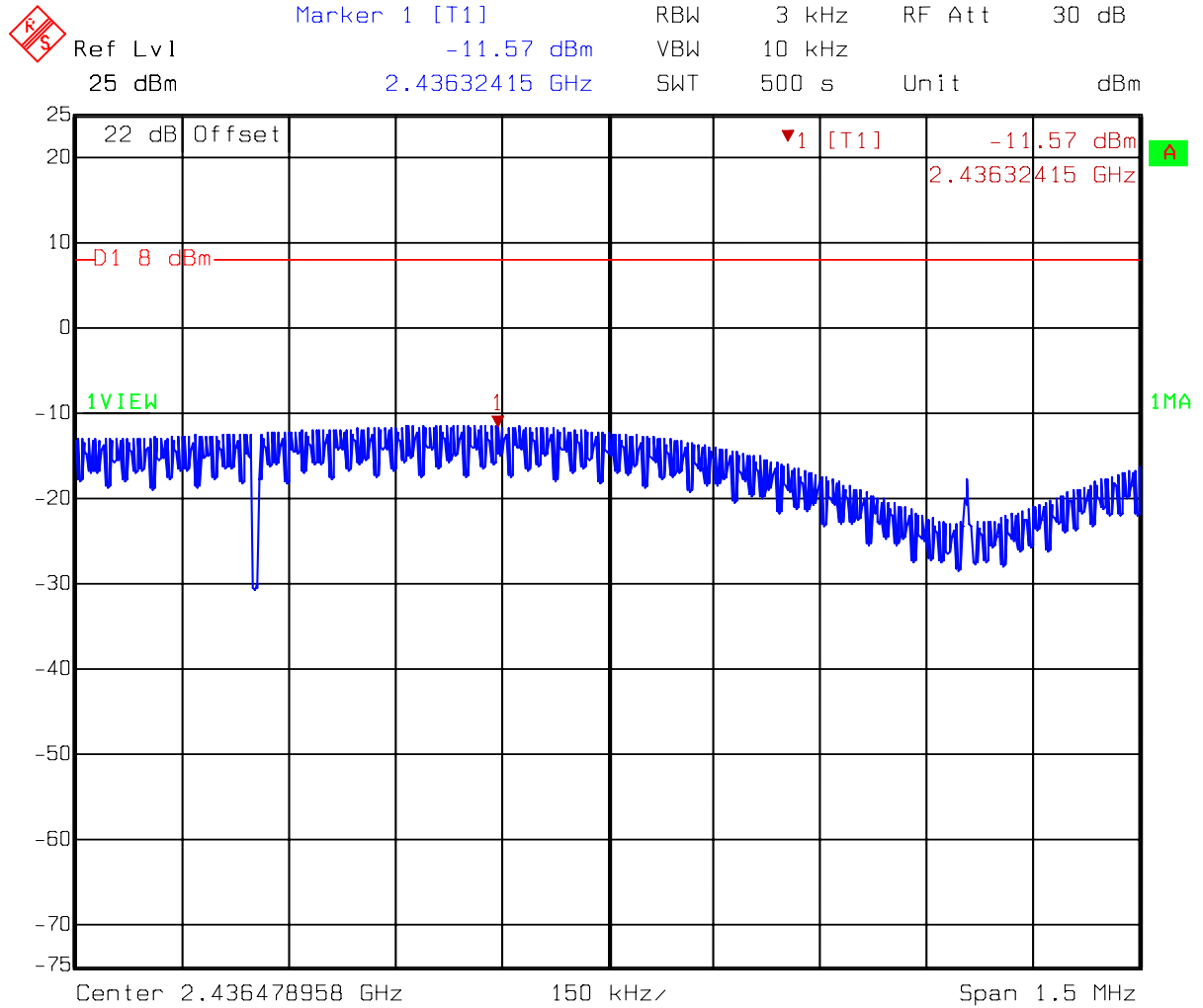


Title: Power density  
Comment A: CH 1 at 802.11b mode  
Date: 08.NOV.2007 14:51:11





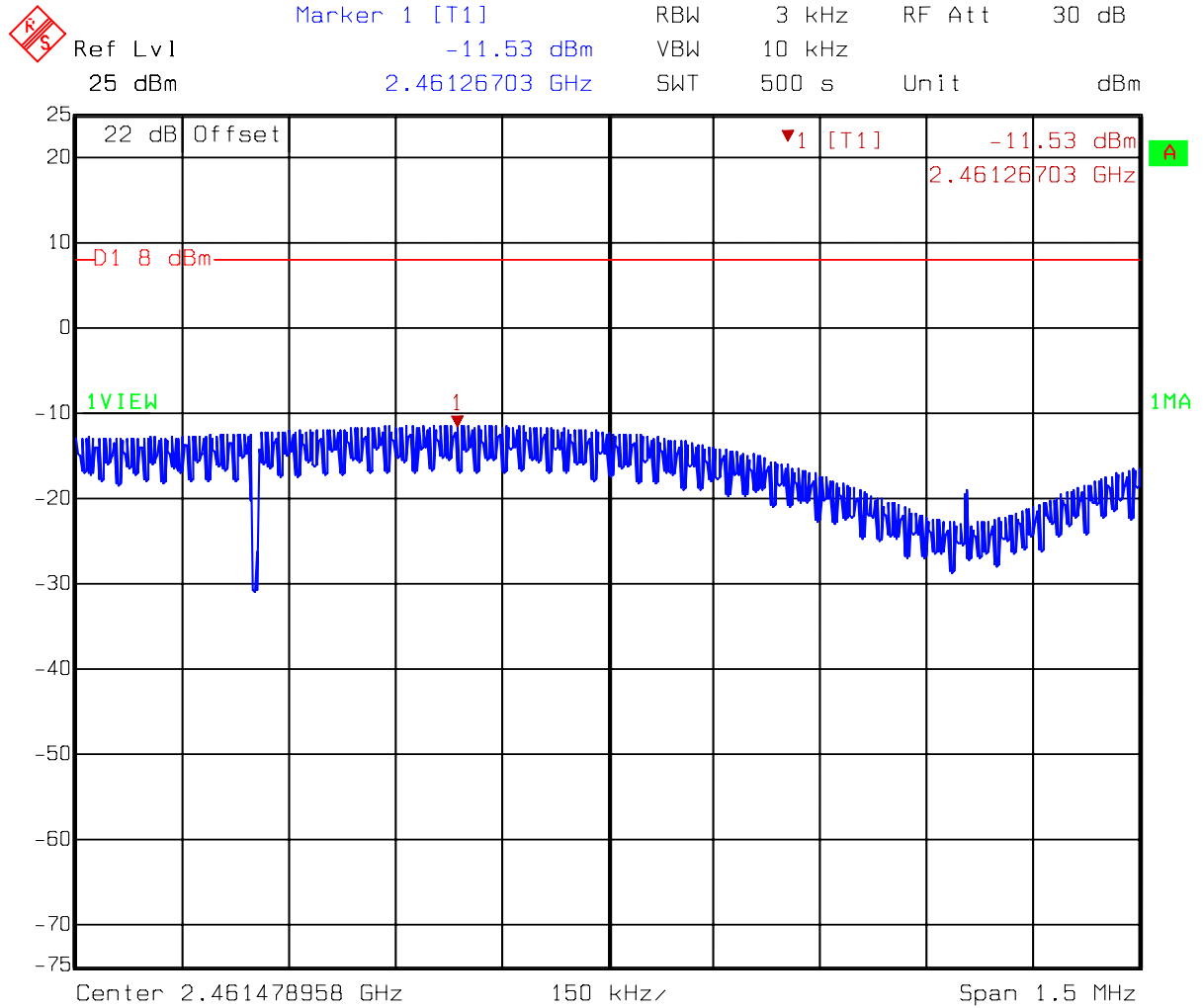
Single Tx  
DACB: 802.11b mode CH6



Title: Power density  
Comment A: CH 6 at 802.11b mode  
Date: 08.NOV.2007 14:54:55



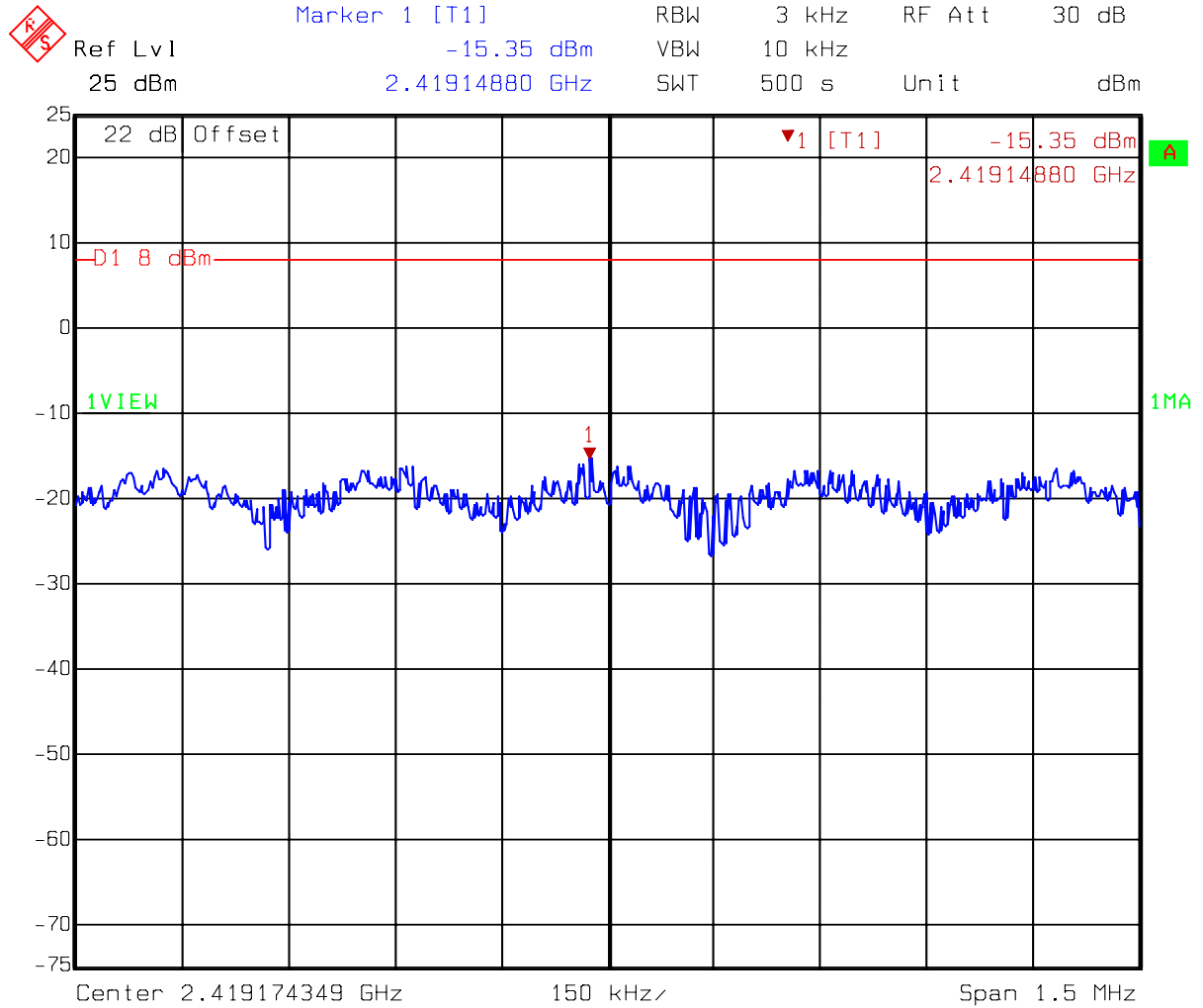
**Single Tx**  
**DACB: 802.11b mode CH11**



Title: Power density  
Comment A: CH 11 at 802.11b mode  
Date: 08.NOV.2007 15:00:27

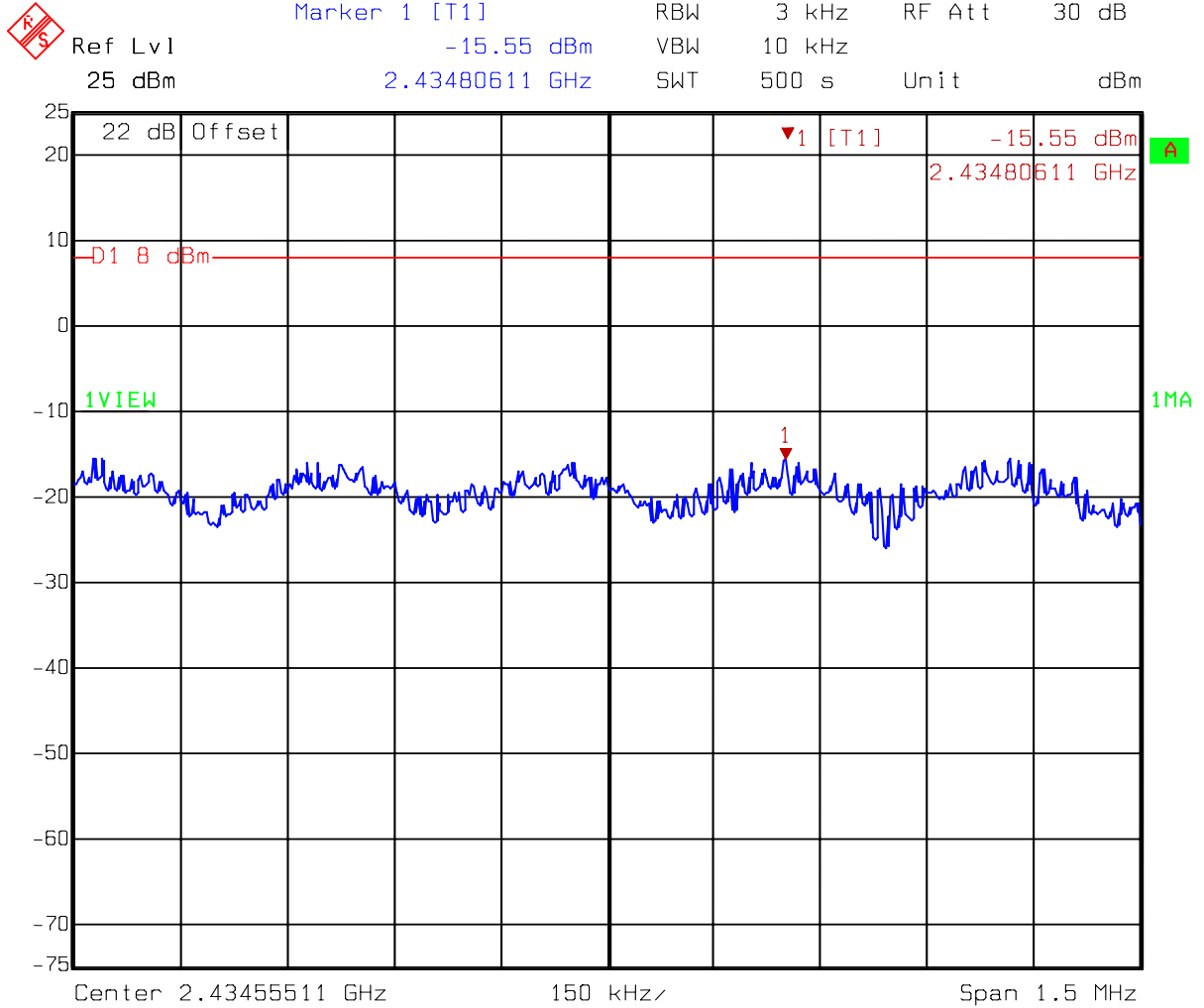


**Single Tx**  
**DACB: 802.11g mode CH1**



Title: Power density  
Comment A: CH 1 at 802.11g mode  
Date: 08.NOV.2007 15:24:27

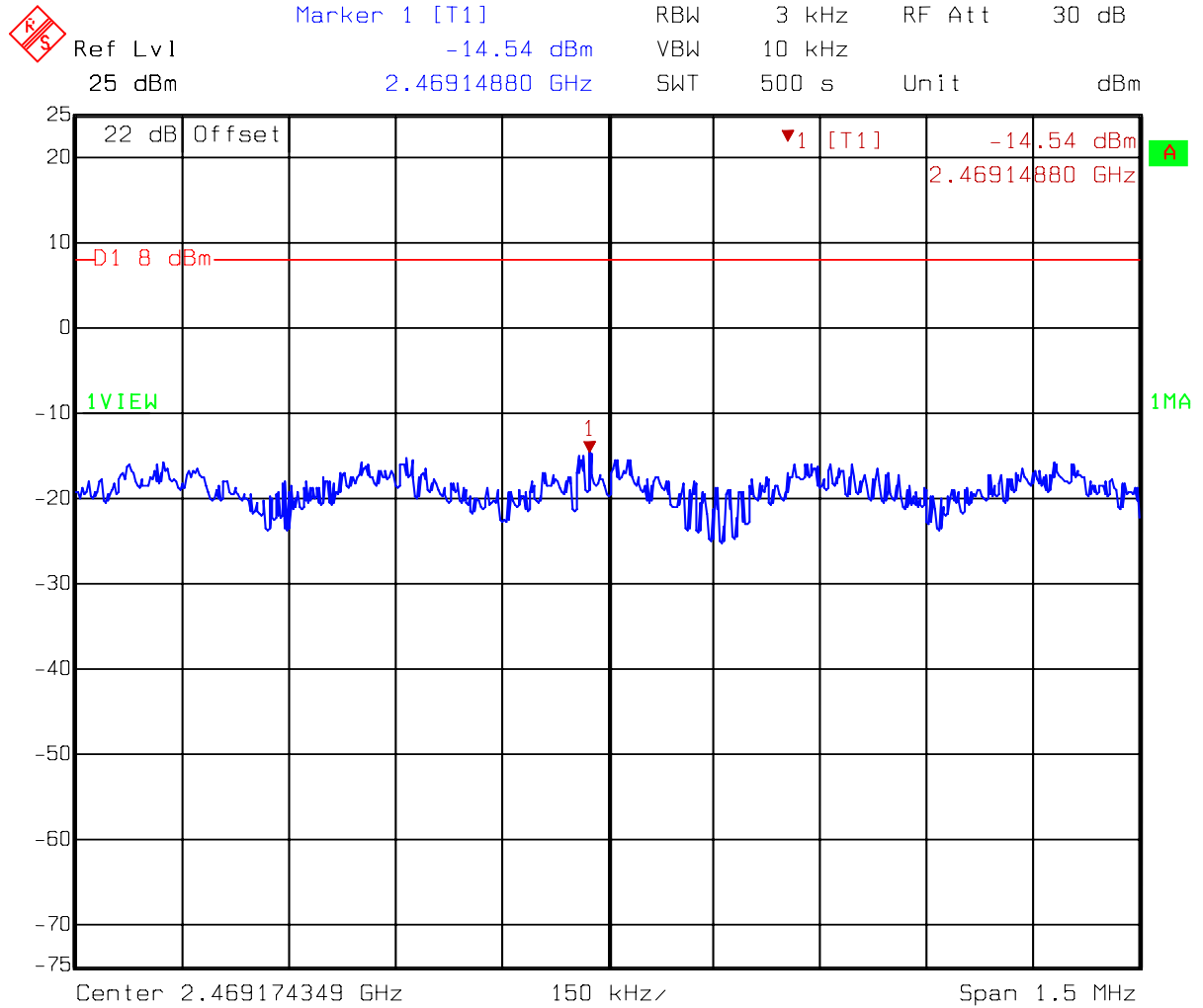
**Single Tx**  
**DACB: 802.11g mode CH6**



Title: Power density  
 Comment A: CH 6 at 802.11g mode  
 Date: 08.NOV.2007 15:20:33



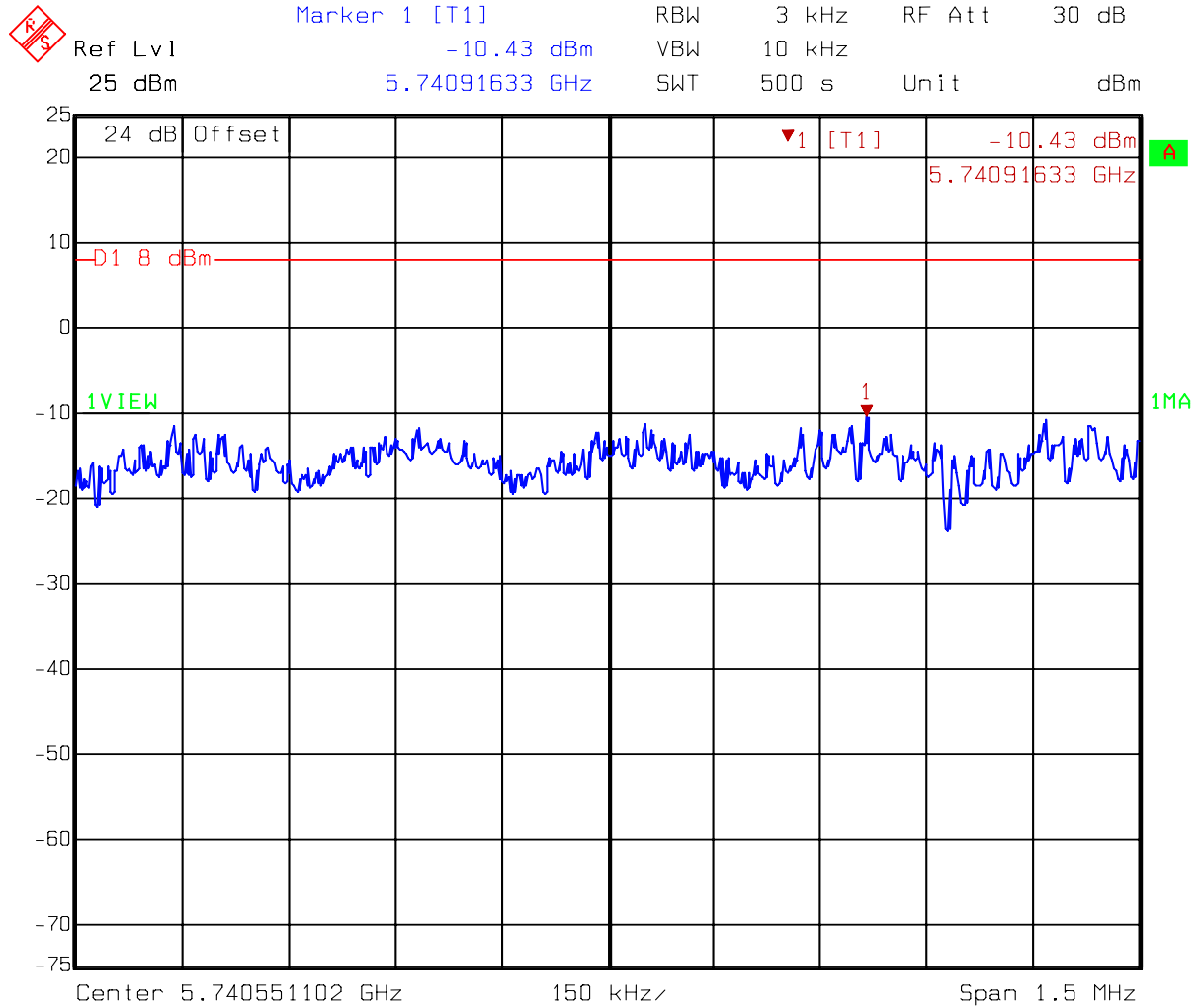
**Single Tx**  
**DACB: 802.11g mode CH11**



Title: Power density  
Comment A: CH 11 at 802.11g mode  
Date: 08.NOV.2007 15:17:28



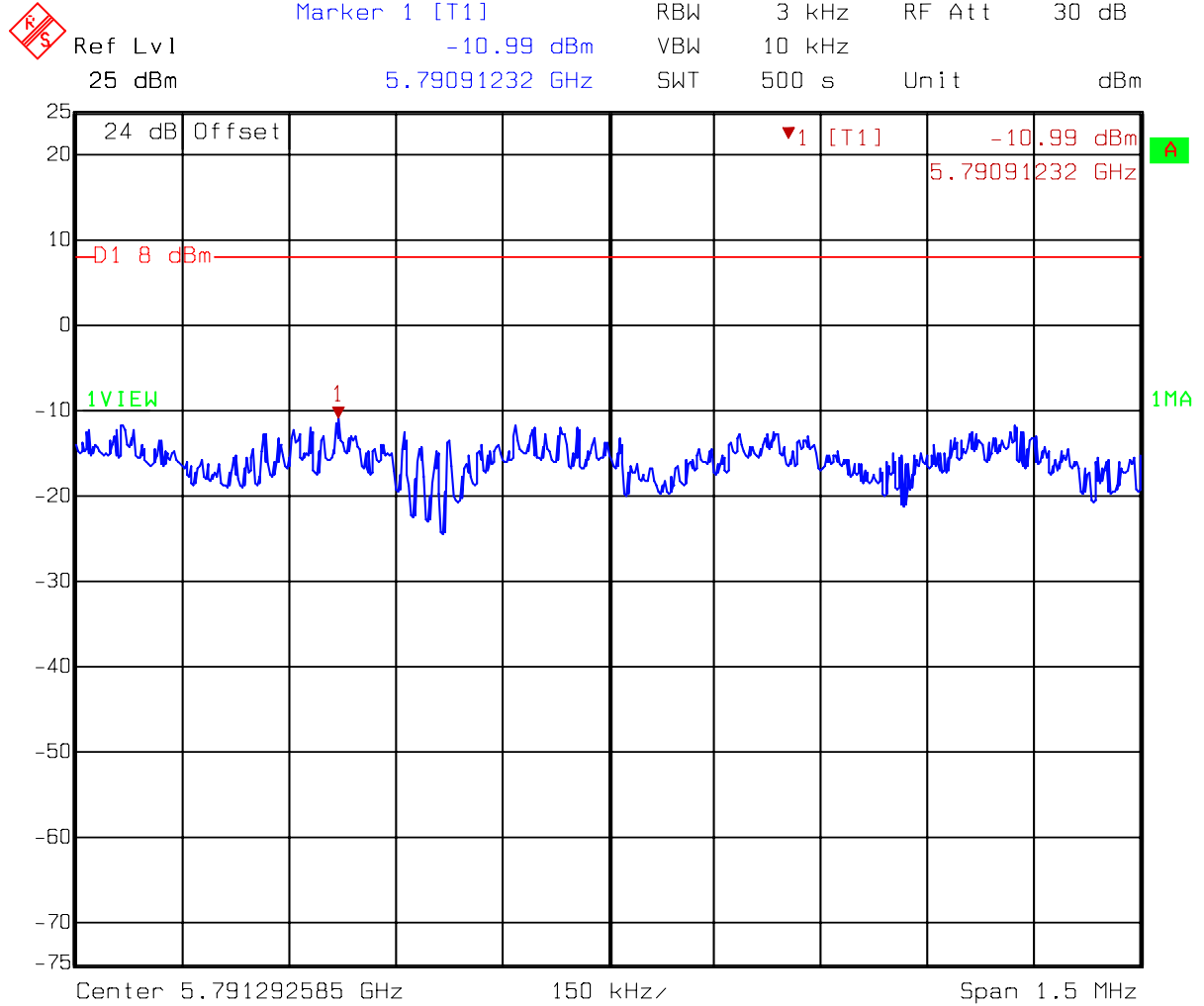
**Single Tx**  
**DACB: 802.11a mode CH149**



Title: Power density  
Comment A: CH 149 at 802.11a mode  
Date: 08.NOV.2007 15:29:43



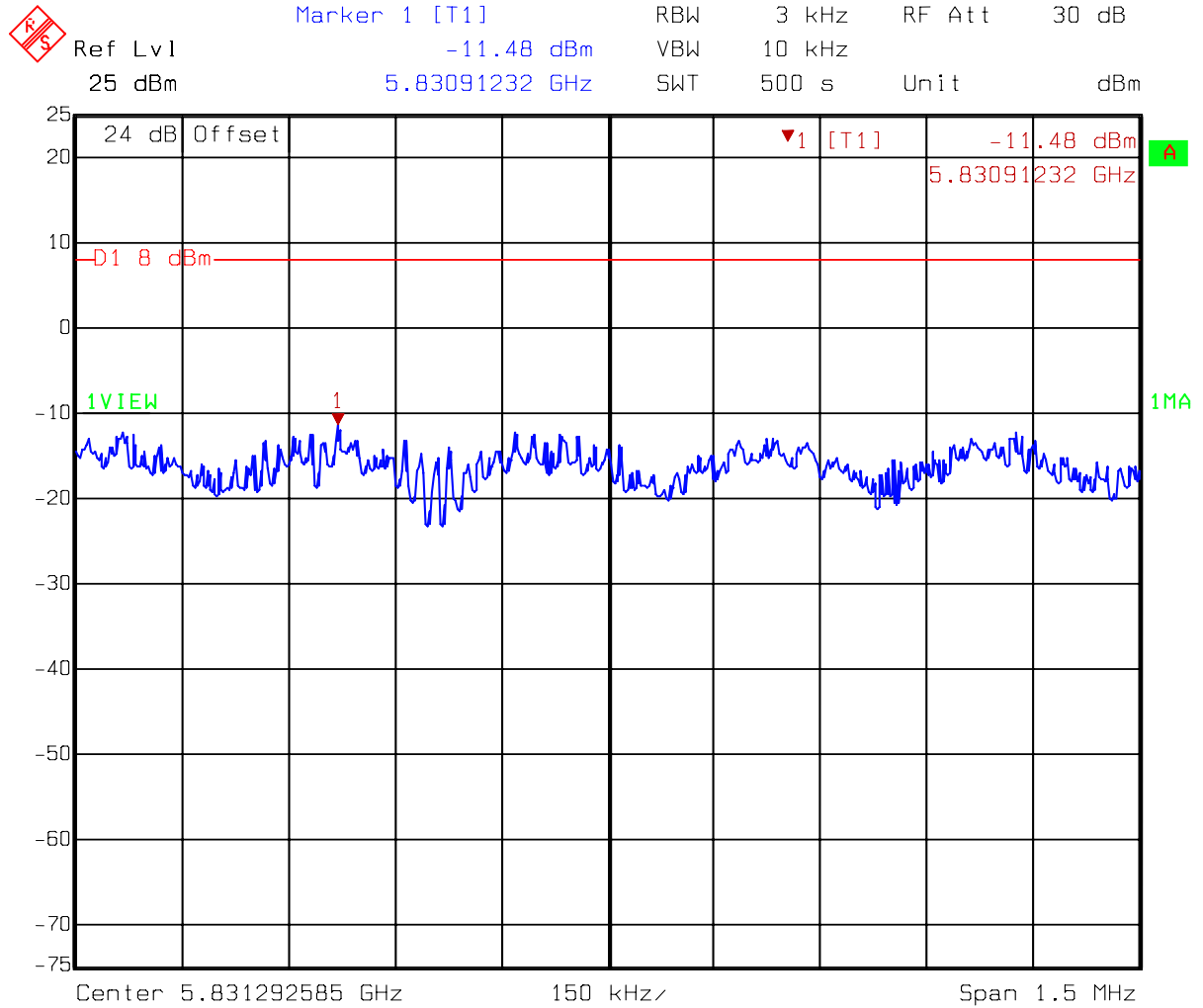
**Single Tx**  
**DACB: 802.11a mode CH157**



Title: Power density  
Comment A: CH 157 at 802.11a mode  
Date: 08.NOV.2007 15:33:41



**Single Tx**  
**DACB: 802.11a mode CH165**

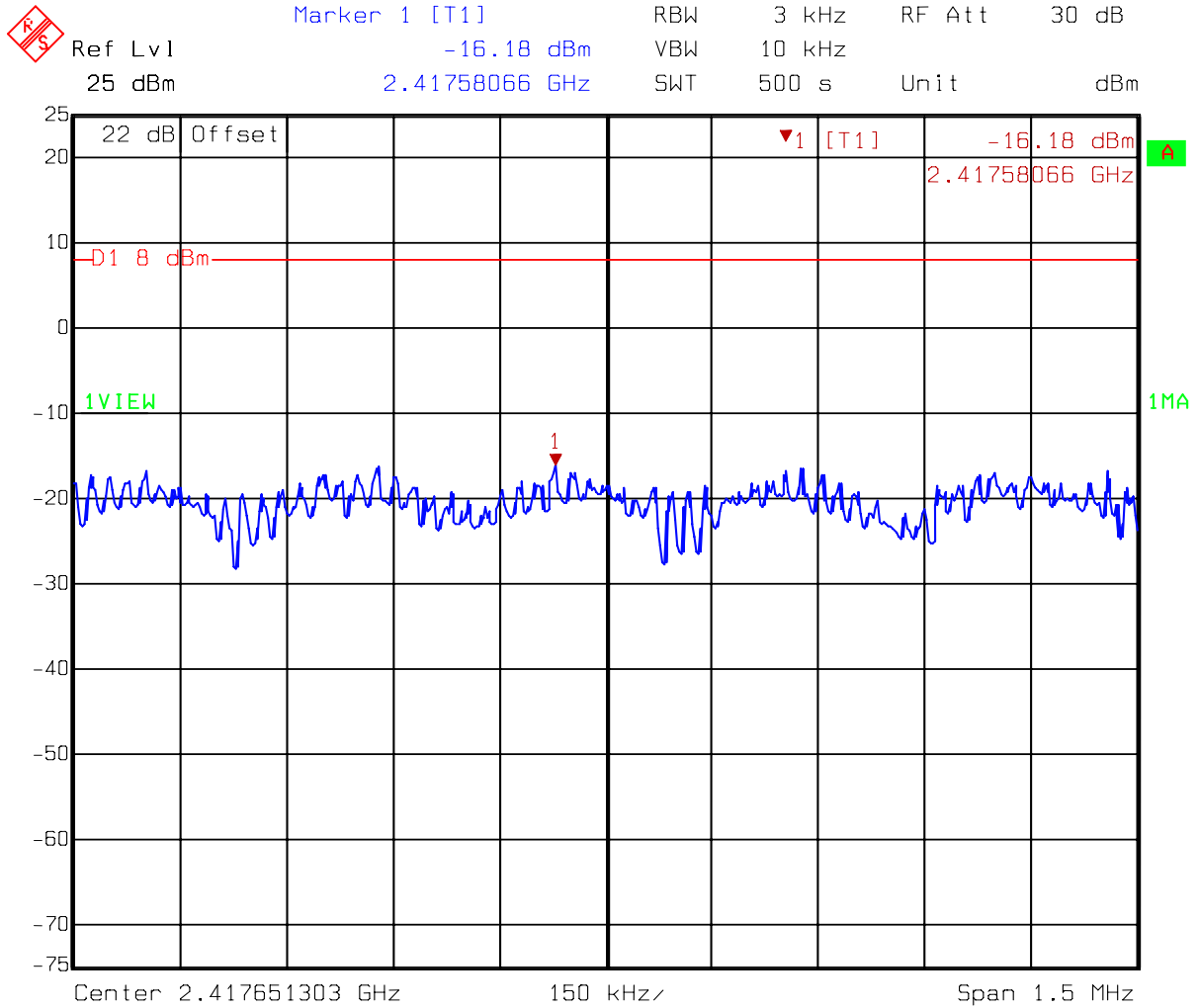


Title: Power density  
Comment A: CH 165 at 802.11a mode  
Date: 08.NOV.2007 15:37:11





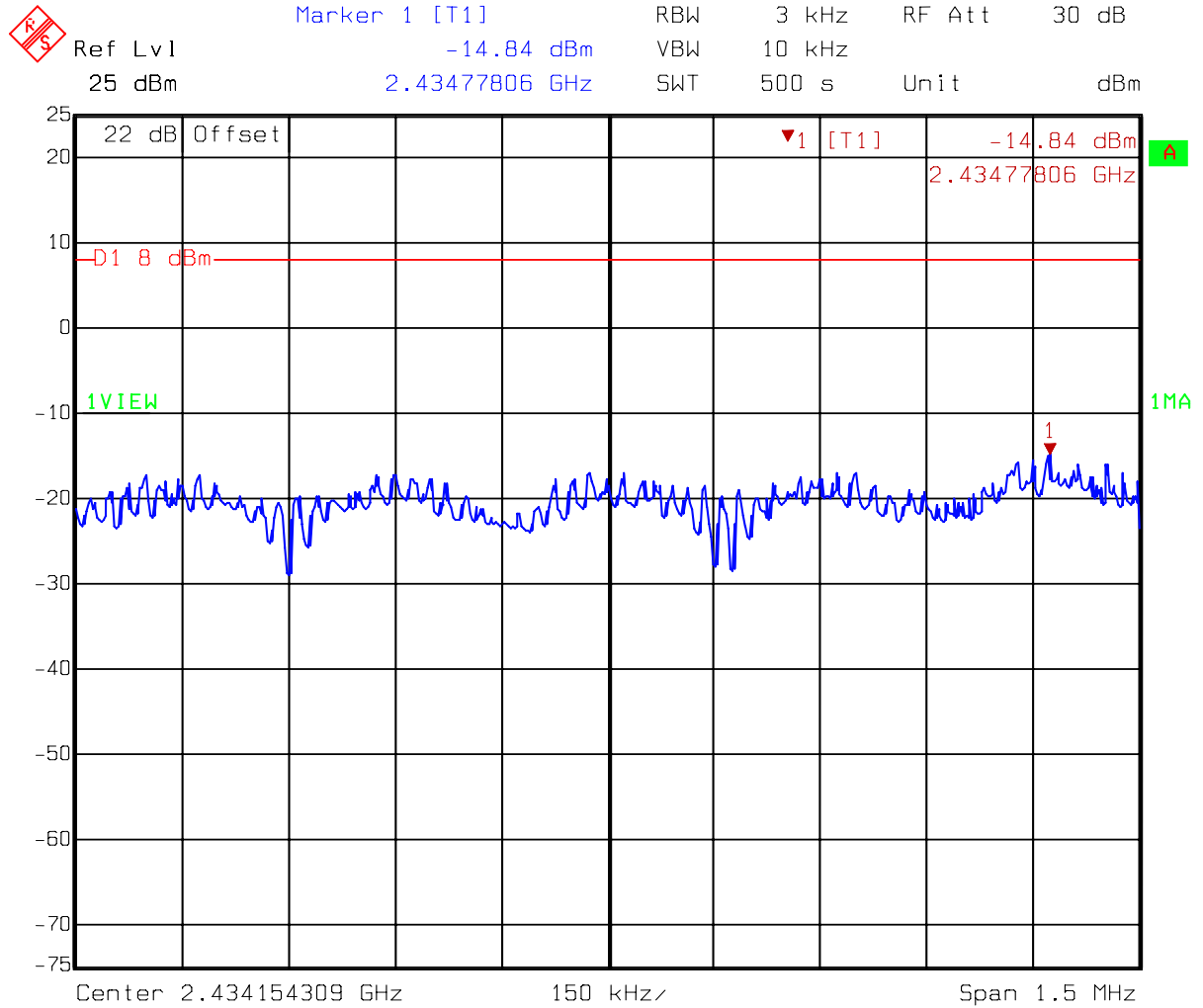
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH1**



Title: Power density  
Comment A: CH 1 at 802.11n 20MHz mode  
Date: 13.NOV.2007 09:08:24



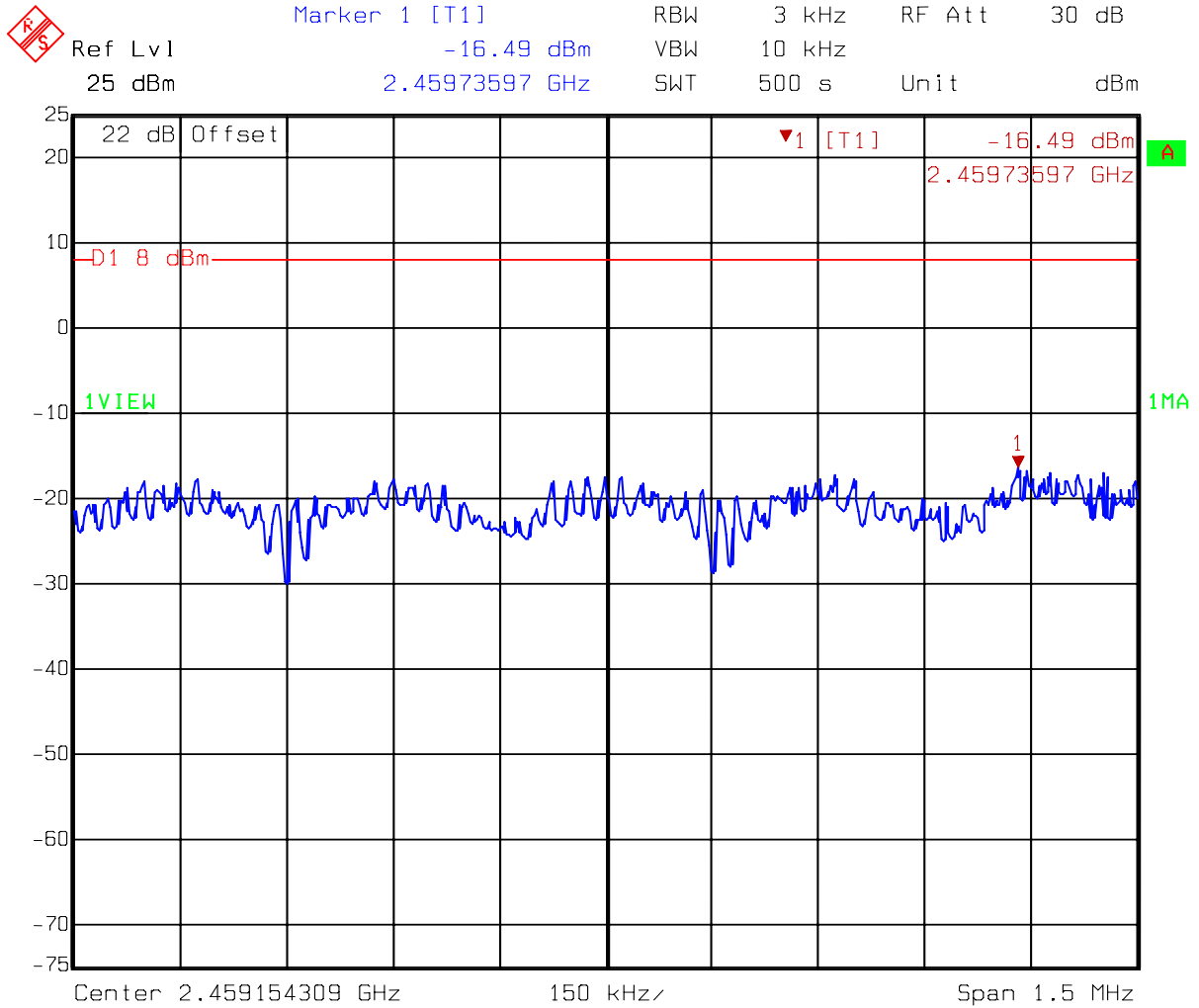
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH6**



Title: Power density  
Comment A: CH 6 at 802.11n 20MHz mode  
Date: 13.NOV.2007 09:19:26



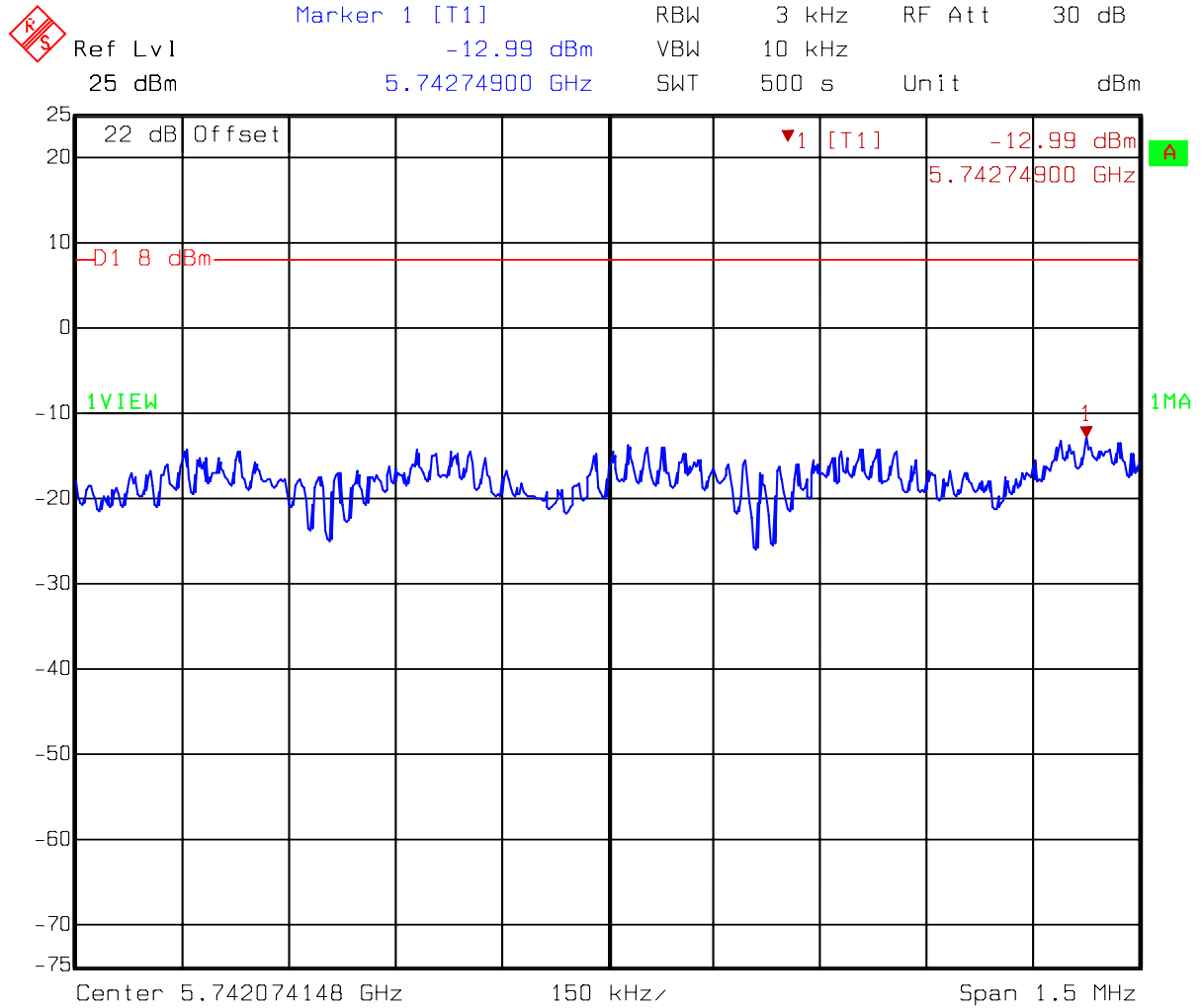
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH11**



Title:      Power density  
Comment A: CH 11 at 802.11n 20MHz mode  
Date:      13.NOV.2007 09:22:57



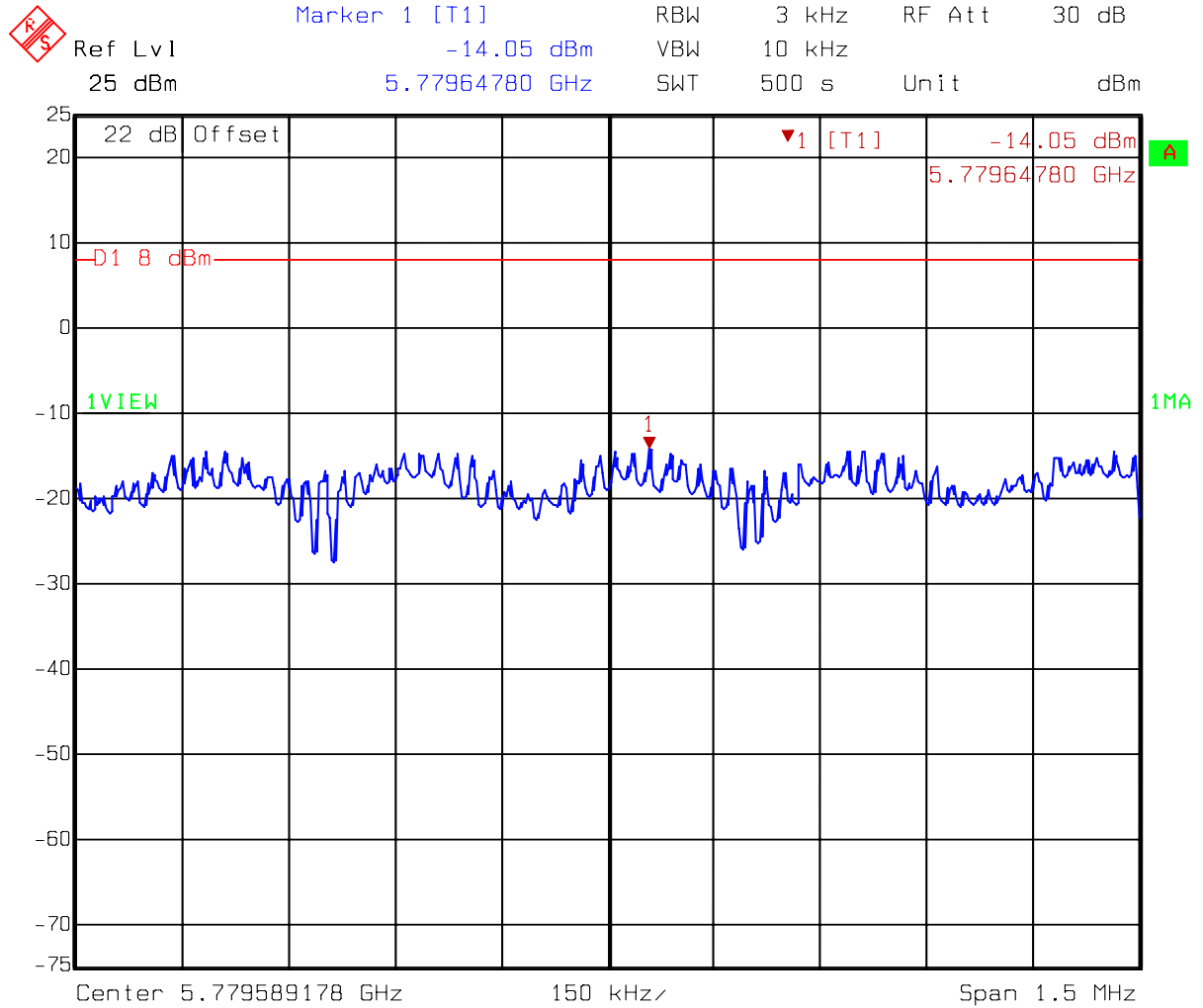
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH149**



Title: Power density  
Comment A: CH 149 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:02:30



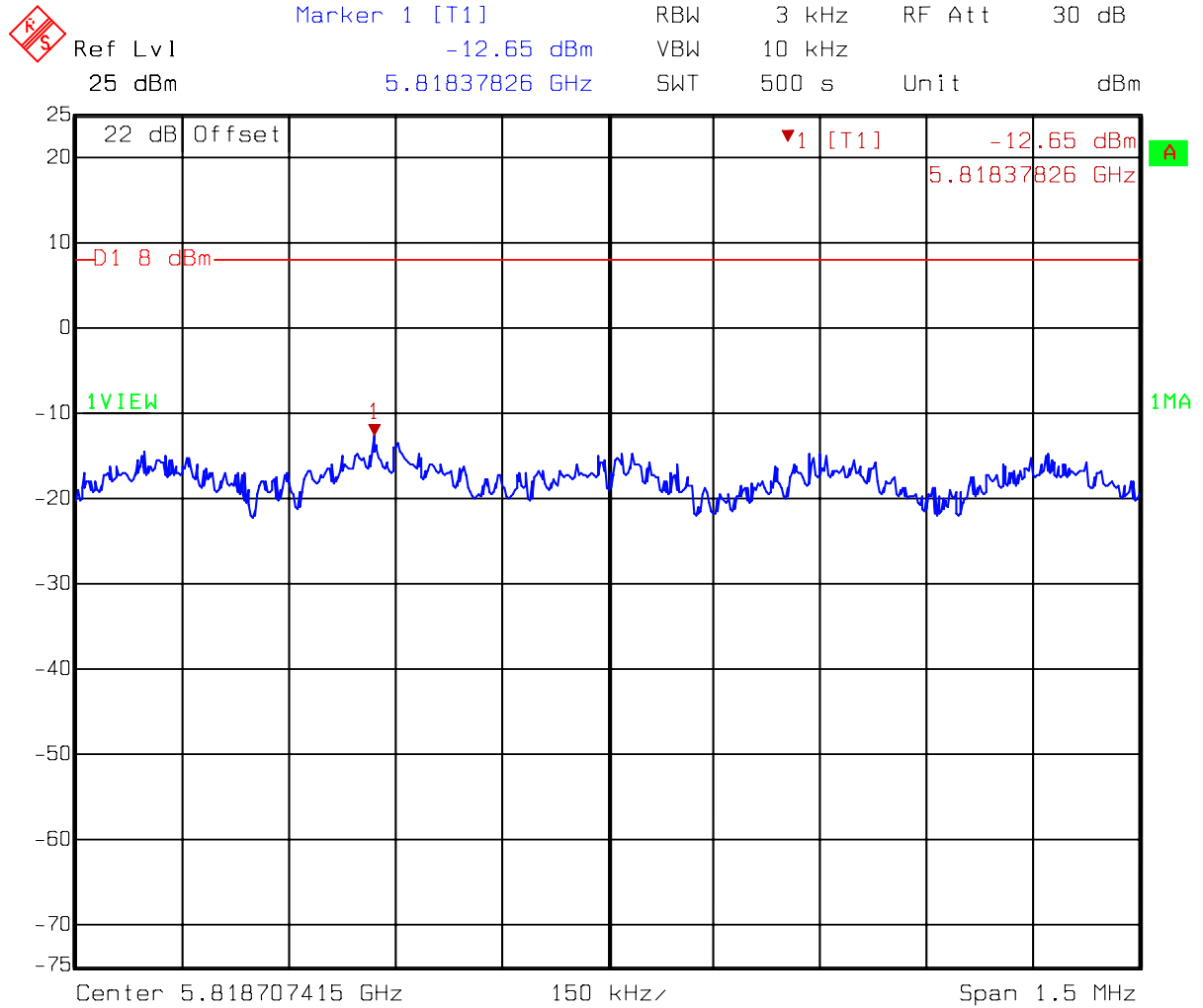
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH157**



Title: Power density  
Comment A: CH 157 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:12:29



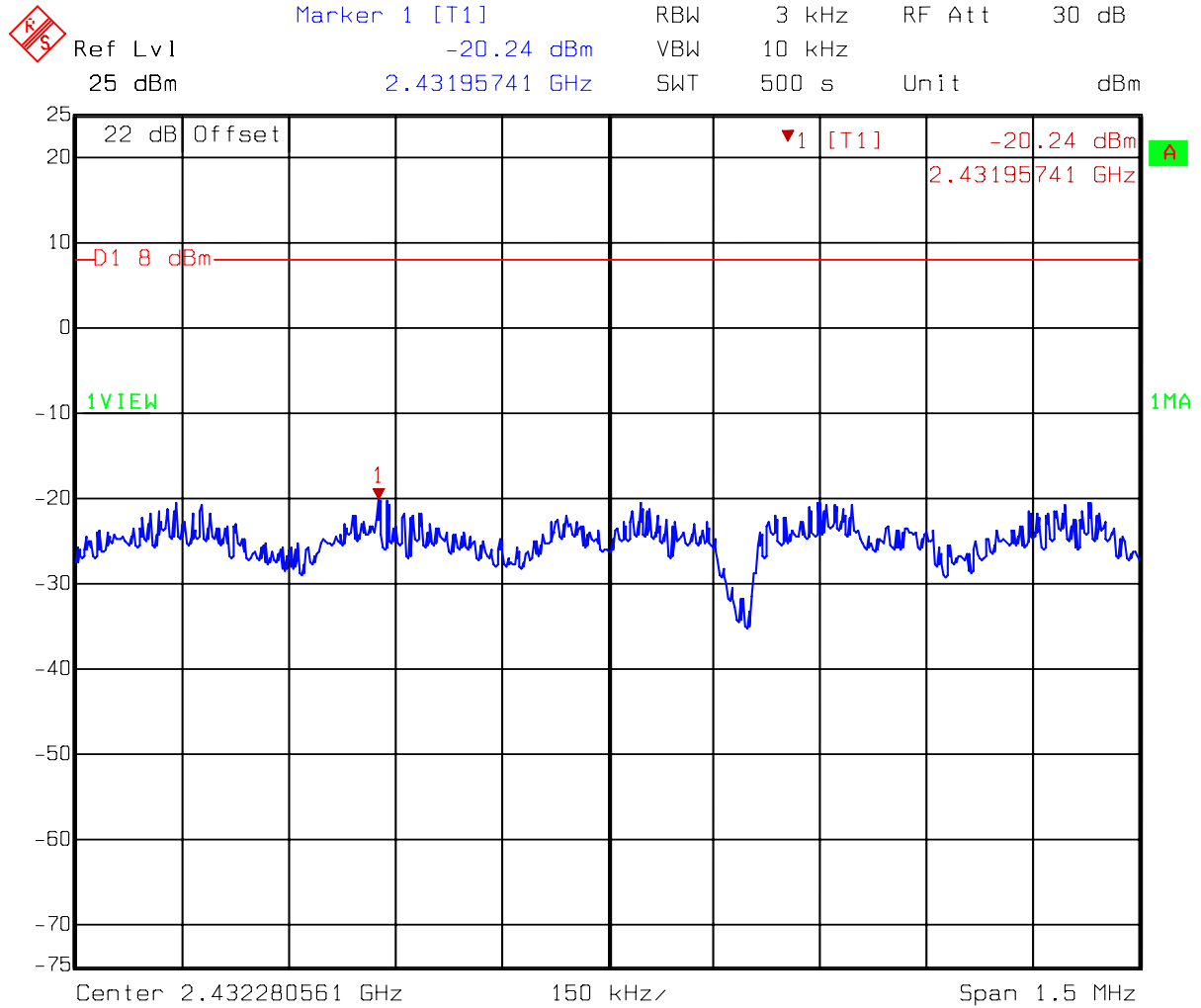
**Dual Tx**  
**DACA: 802.11n 20MHz mode CH165**



Title: Power density  
Comment A: CH 165 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:16:08




**Dual Tx**  
**DACA: 802.11n 40MHz mode CH3**

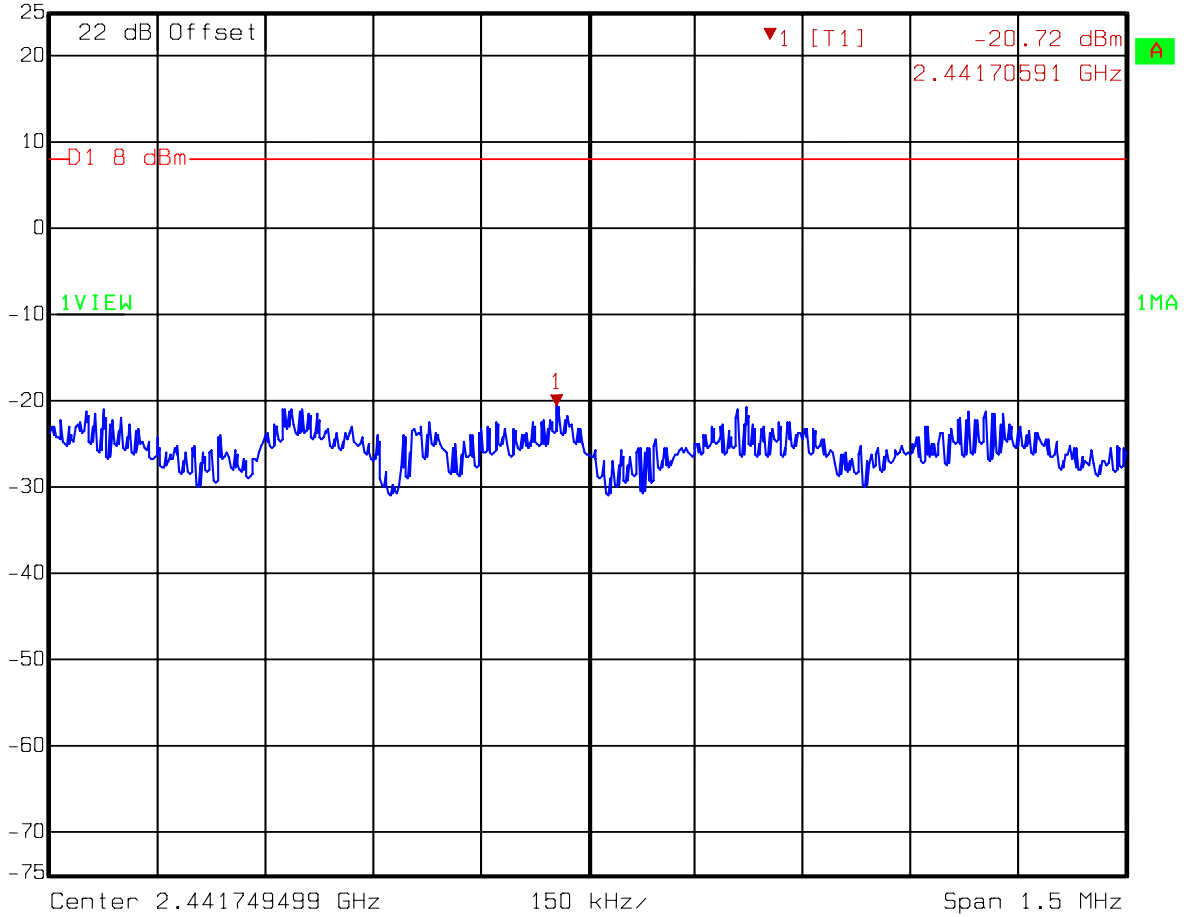


Title: Power density  
Comment A: CH 3 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:40:19



**Dual Tx**  
**DACA: 802.11n 40MHz mode CH6**

 Marker 1 [T1] RBW 3 kHz RF Att 30 dB  
Ref Lvl -20.72 dBm VBW 10 kHz  
25 dBm 2.44170591 GHz SWT 500 s Unit dBm

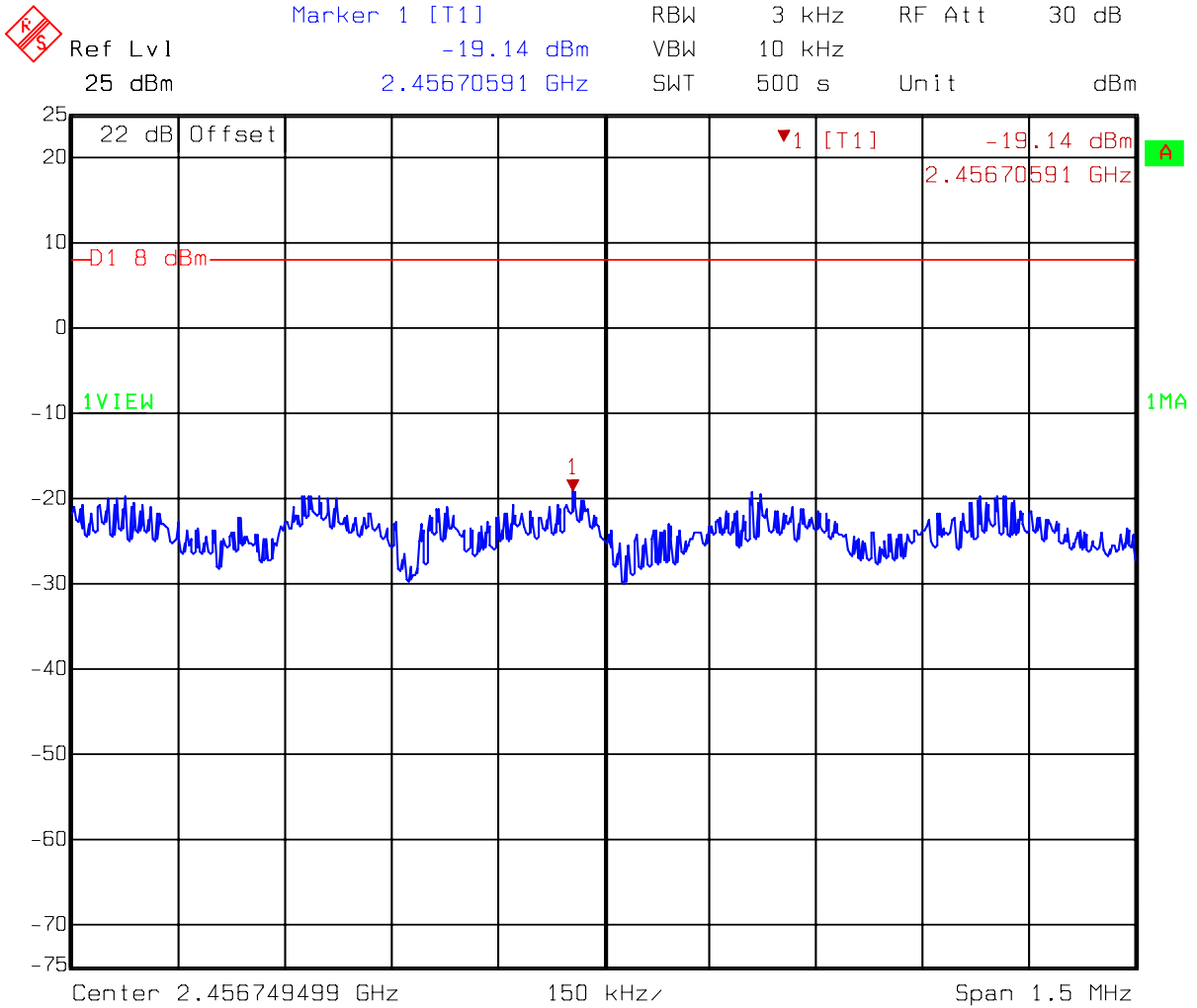


Title: Power density  
Comment A: CH 6 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:43:22





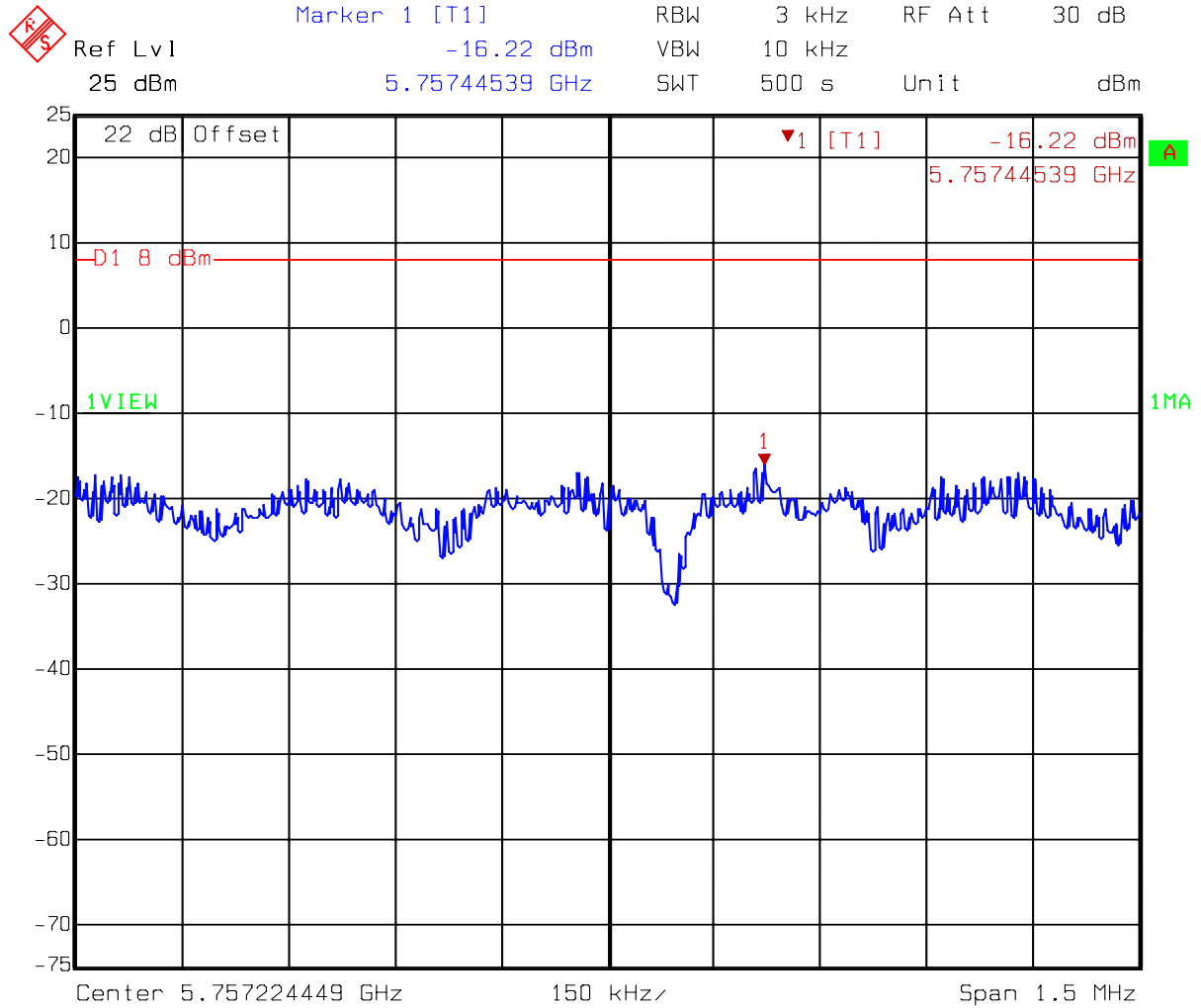
**Dual Tx**  
**DACA: 802.11n 40MHz mode CH9**



Title: Power density  
Comment A: CH 9 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:54:45

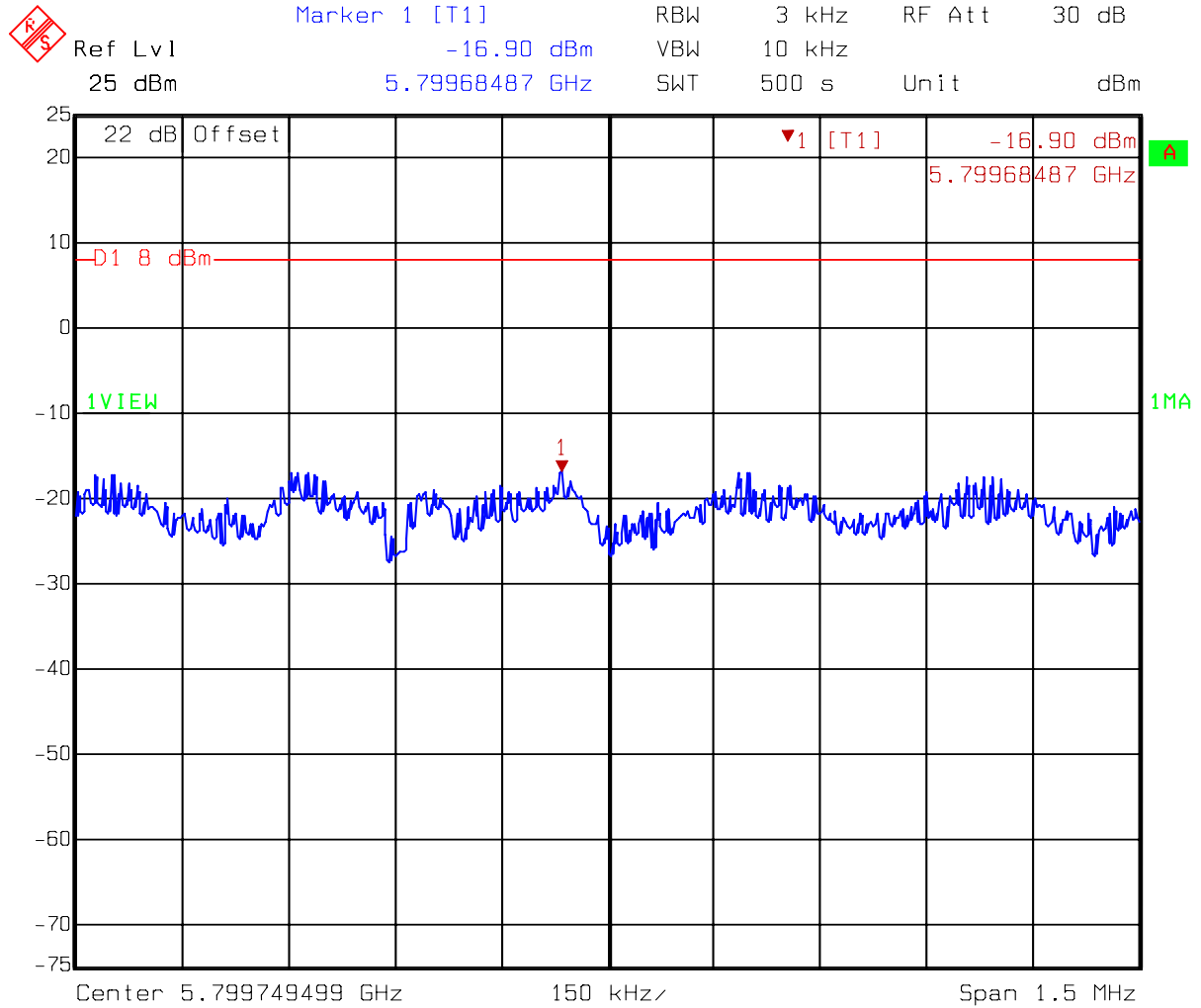


**Dual Tx**  
**DACA: 802.11n 40MHz mode CH151**



Title: Power density  
Comment A: CH 151 at 802.11n 40MHz mode  
Date: 13.NOV.2007 10:28:31

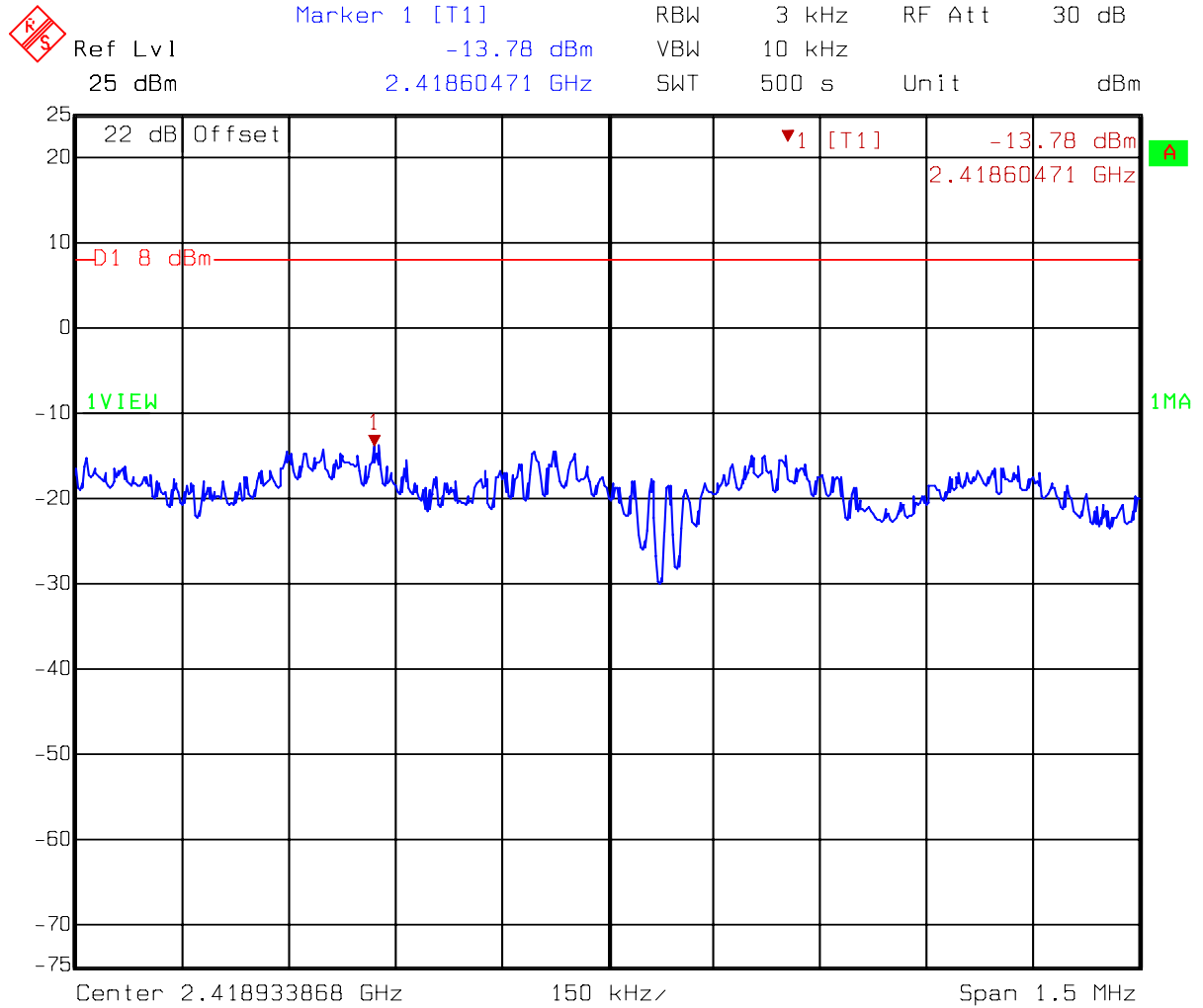
**Dual Tx**  
**DACA: 802.11n 40MHz mode CH159**



Title: Power density  
 Comment A: CH 159 at 802.11n 40MHz mode  
 Date: 13.NOV.2007 10:32:29



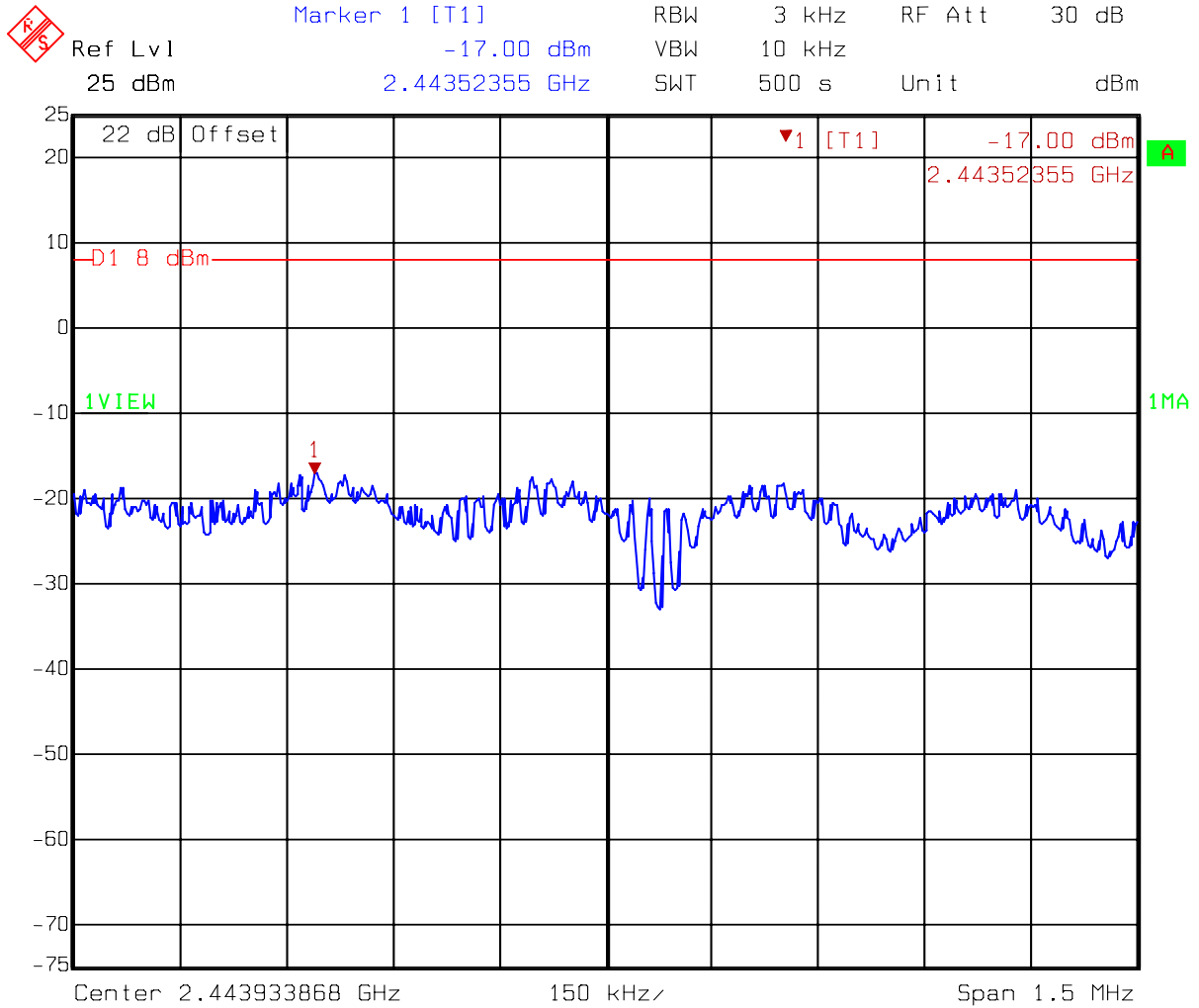
**Dual Tx**  
**DACB: 802.11n 20MHz mode CH1**



Title: Power density  
Comment A: CH 1 at 802.11n 20MHz mode  
Date: 13.NOV.2007 09:12:26



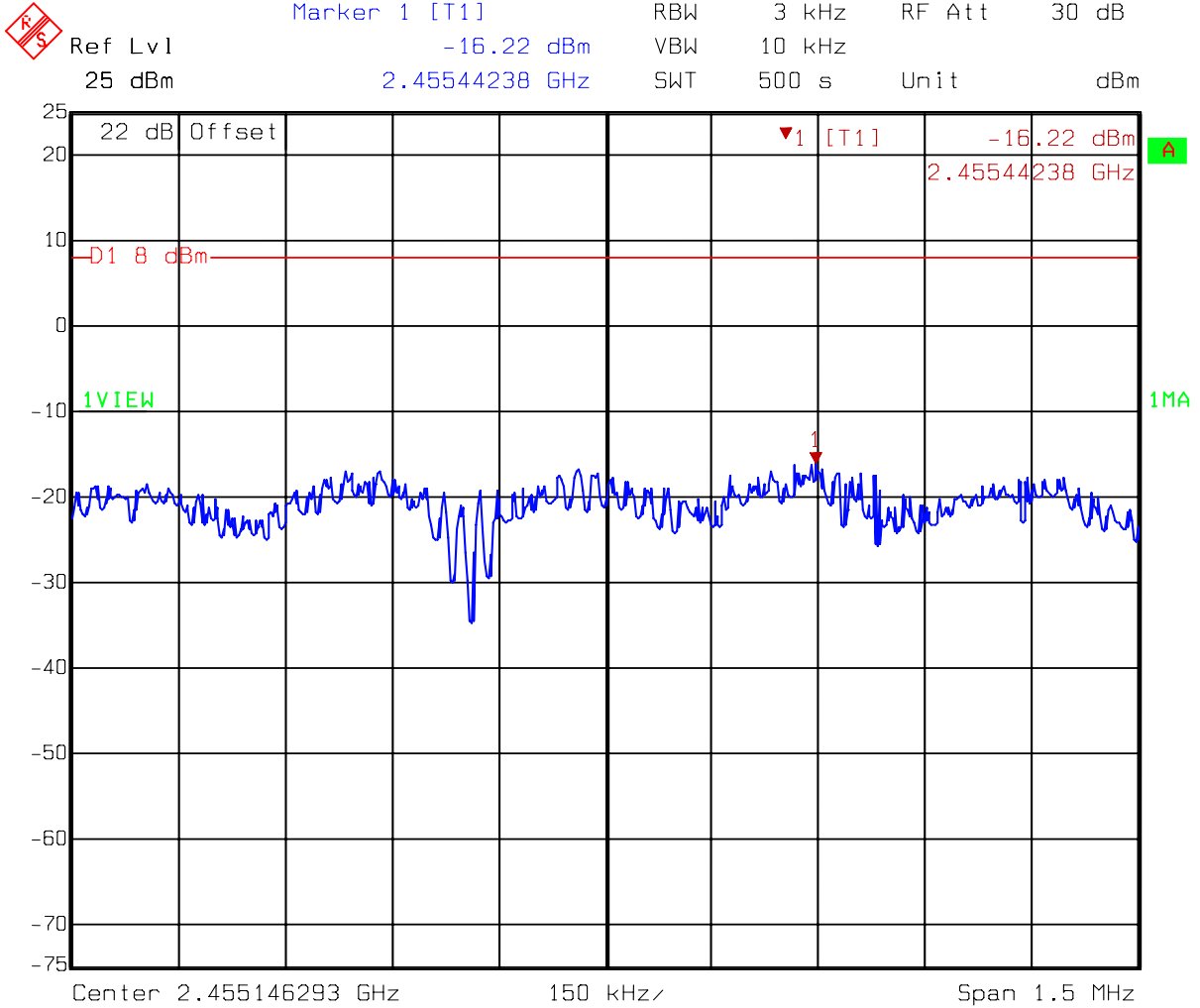
**Dual Tx**  
**DACB: 802.11n 20MHz mode CH6**



Title:      Power density  
Comment A: CH 6 at 802.11n 20MHz mode  
Date:      13.NOV.2007 09:15:49



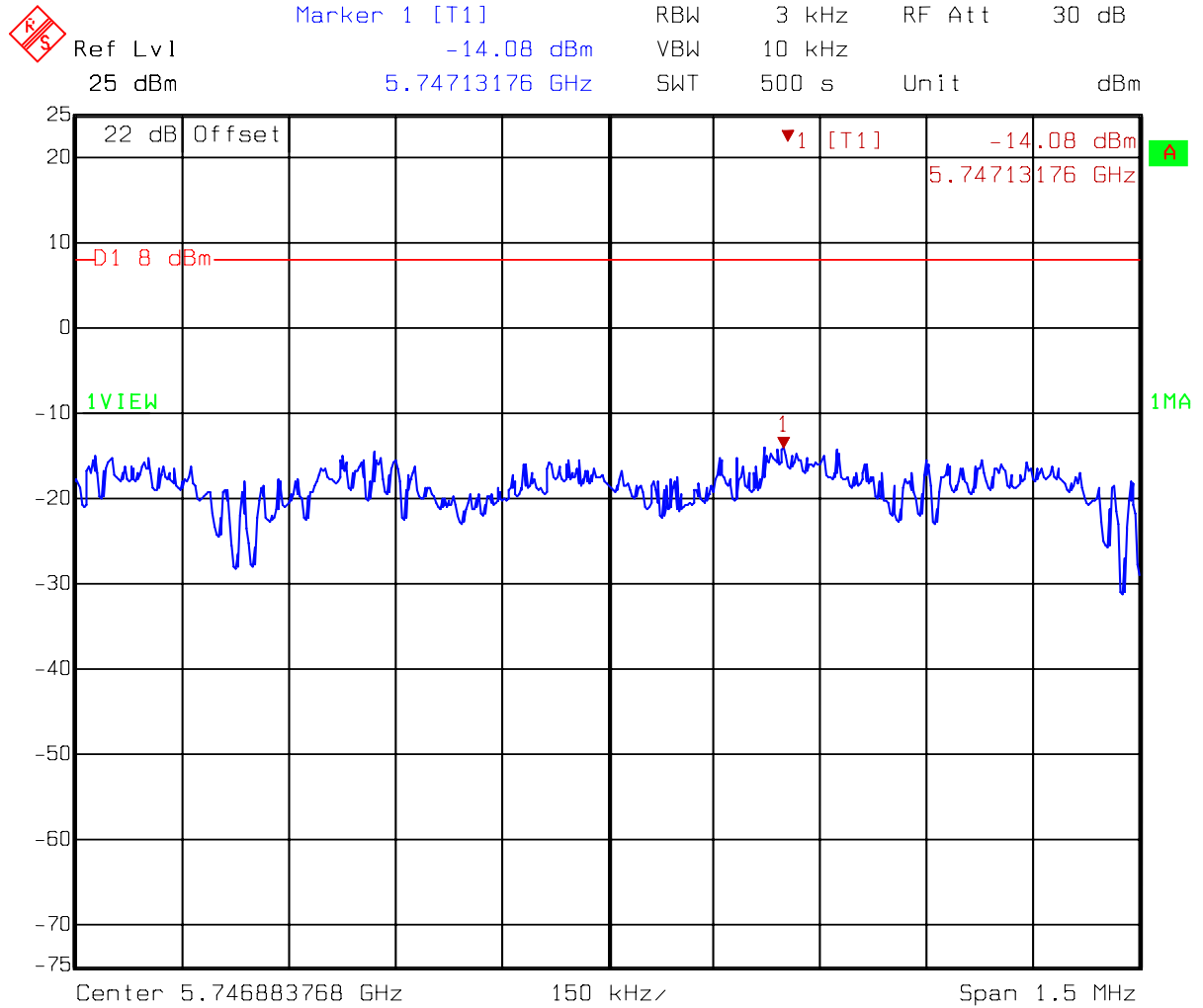
**Dual Tx**  
**DACB: 802.11n 20MHz mode CH11**



Title:        Power density  
Comment A: CH 11 at 802.11n 20MHz mode  
Date:        13.NOV.2007 09:26:09



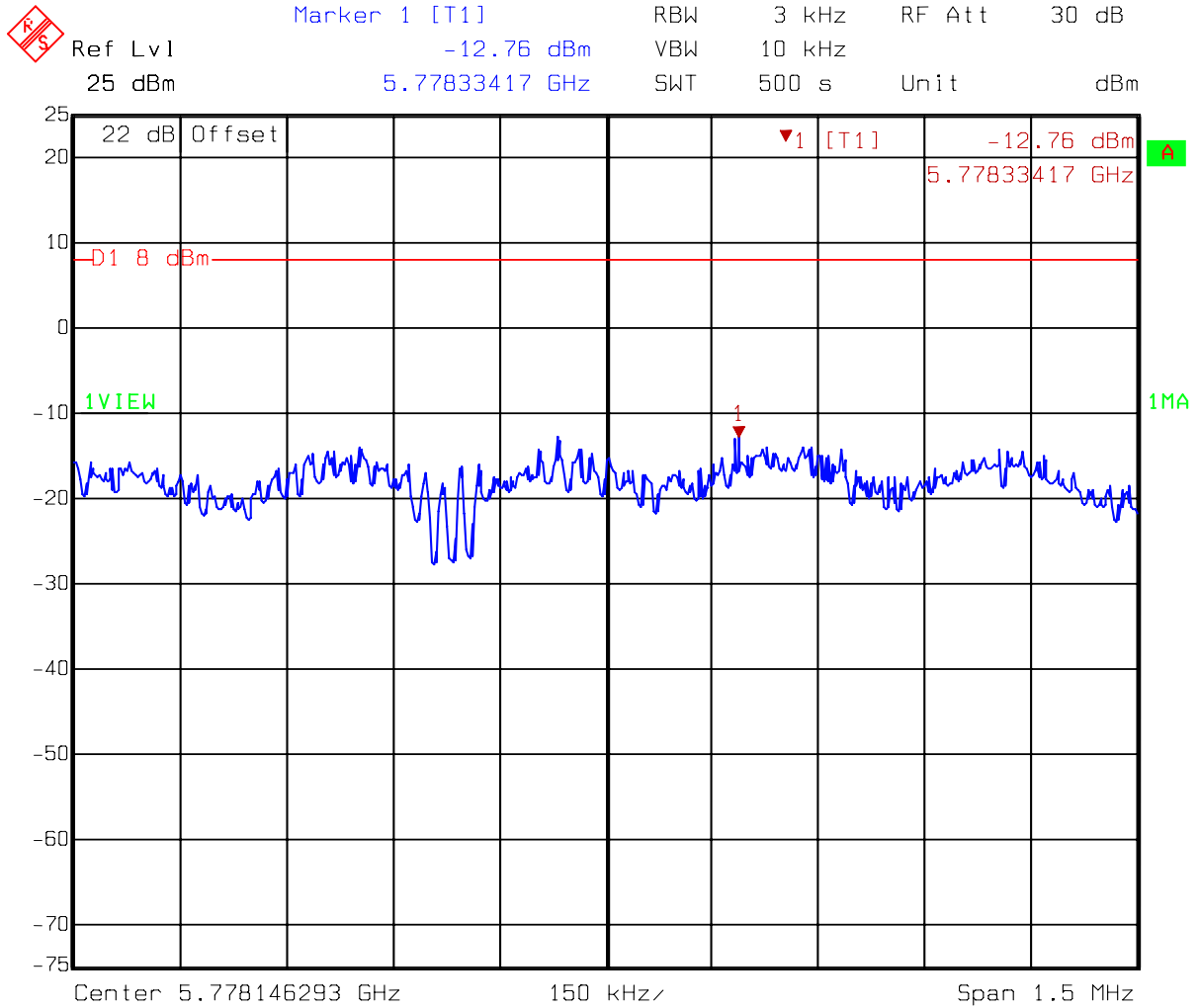
**Dual Tx**  
**DACB: 802.11n 20MHz mode CH149**



Title: Power density  
Comment A: CH 149 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:06:08



**Dual Tx**  
**DACB: 802.11n 20MHz mode CH157**

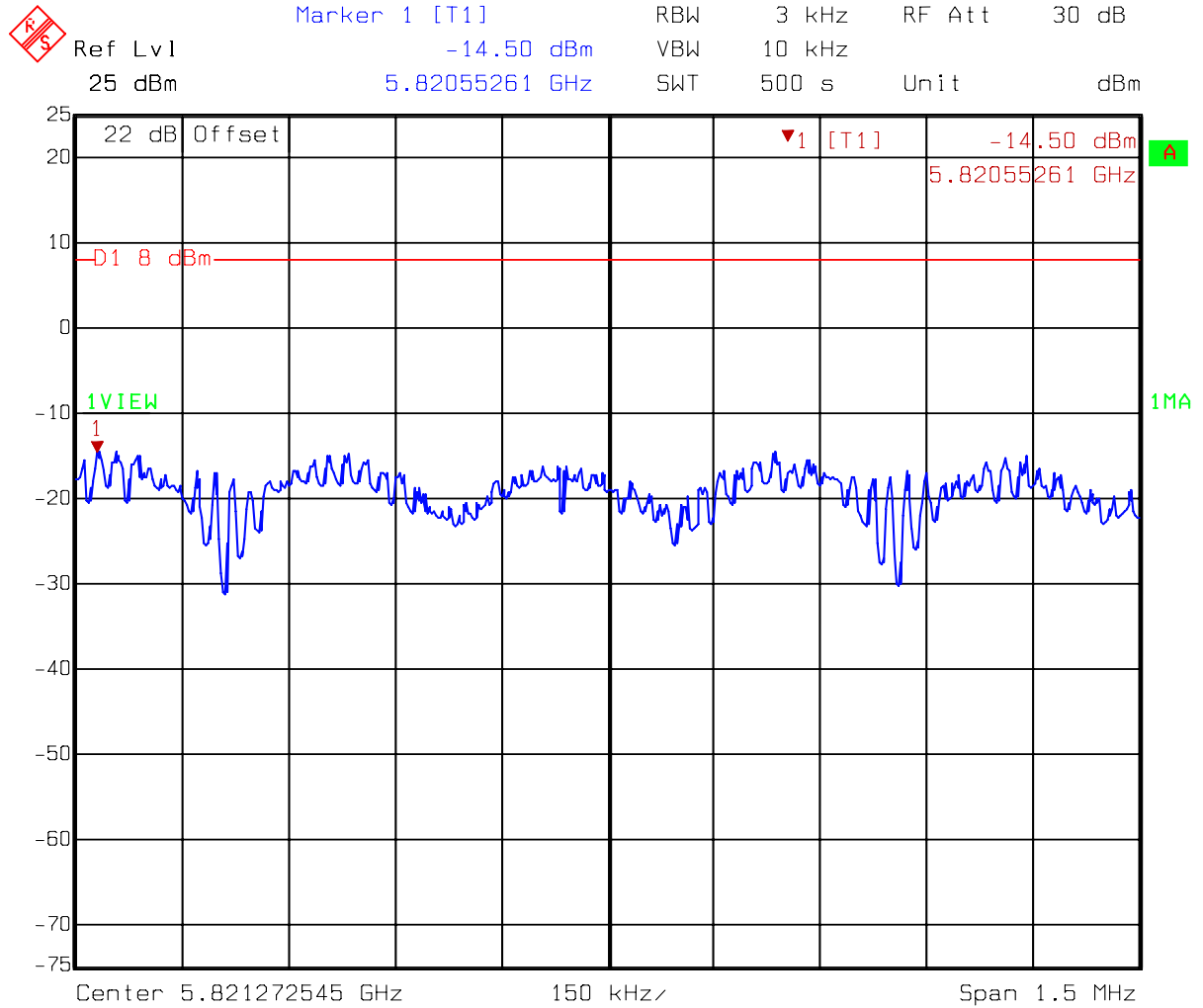


Title: Power density  
Comment A: CH 157 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:09:20





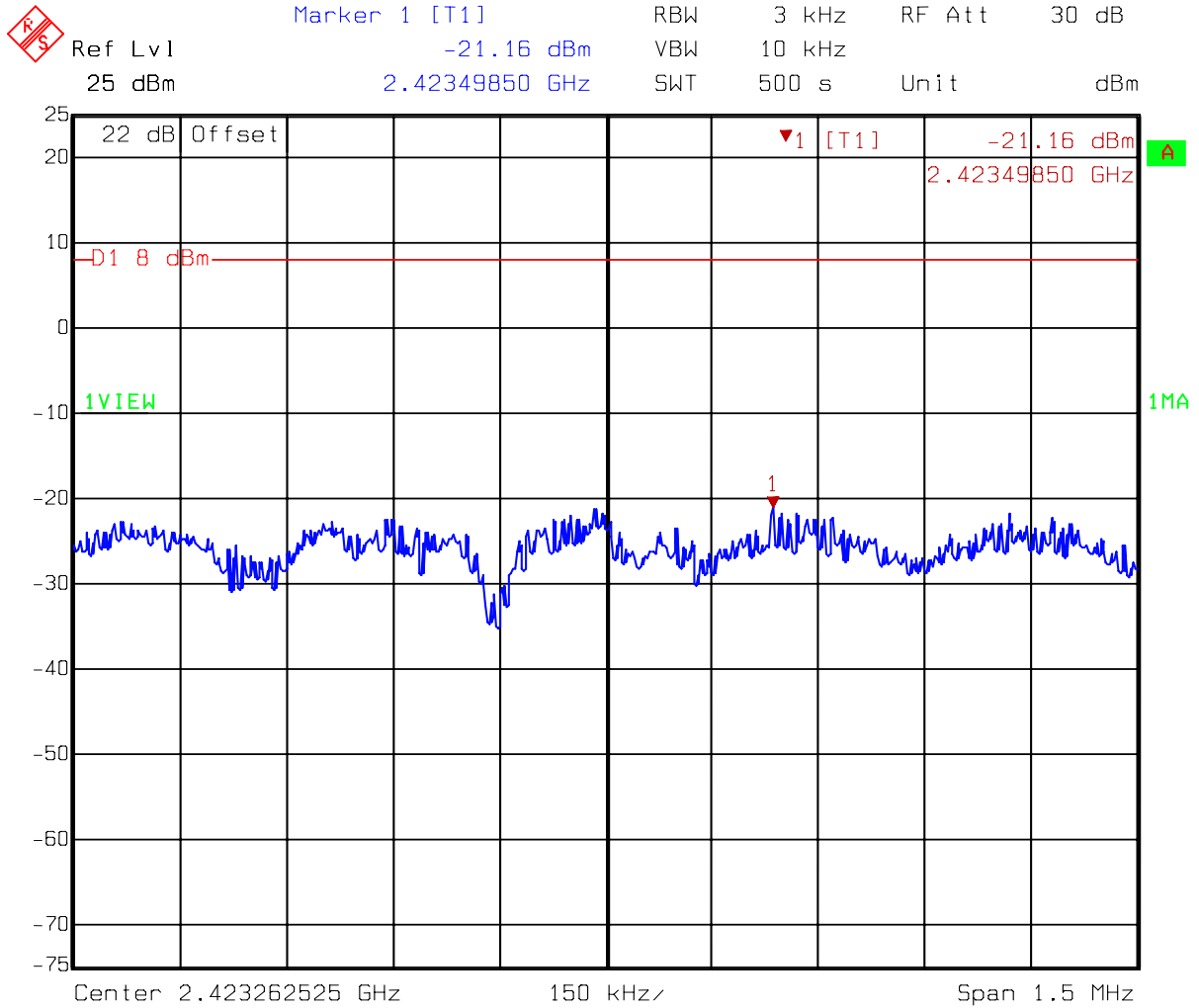
**Dual Tx**  
**DACB: 802.11n 20MHz mode CH165**



Title: Power density  
Comment A: CH 165 at 802.11n 20MHz mode  
Date: 13.NOV.2007 10:19:25



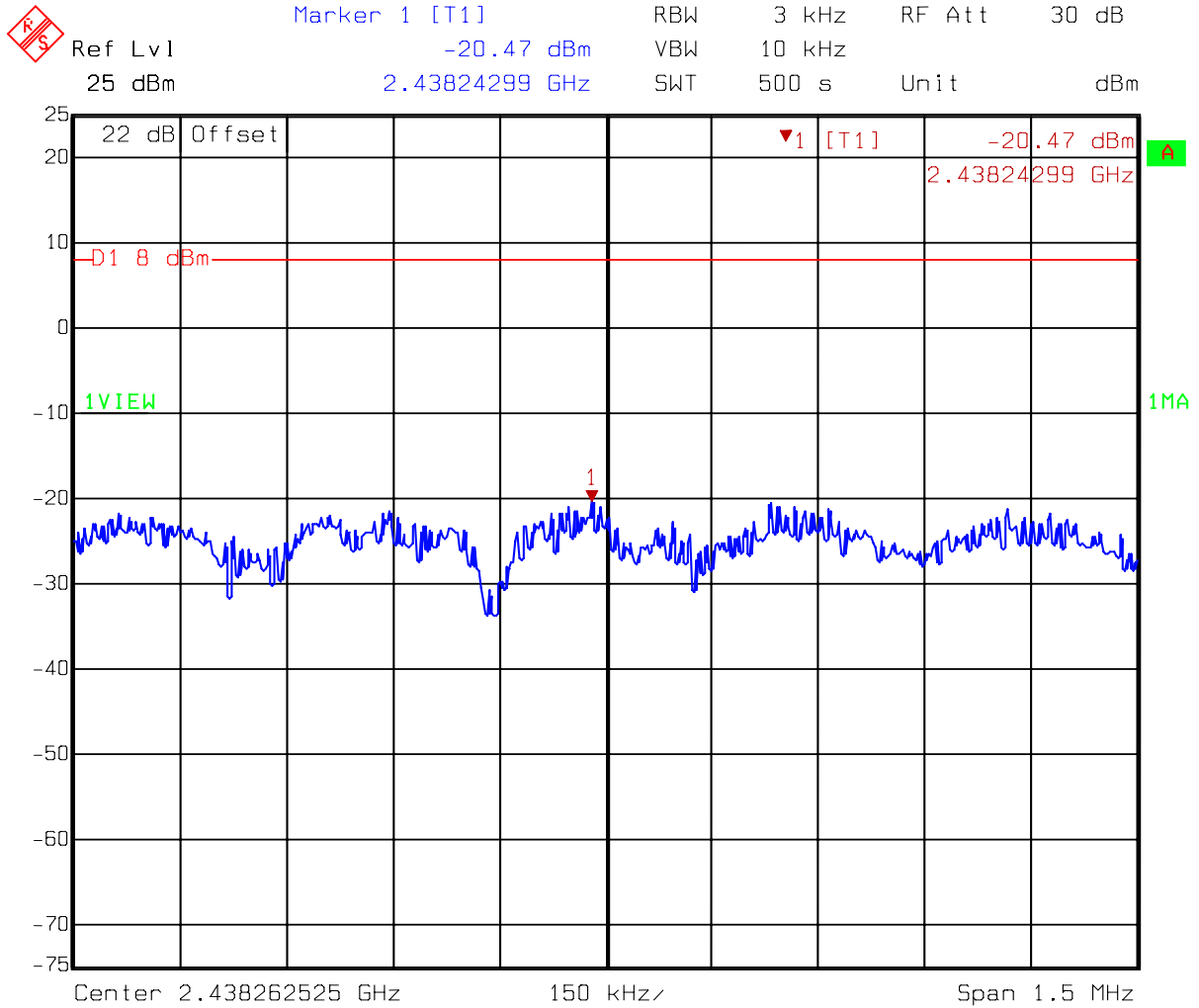
**Dual Tx**  
**DACB: 802.11n 40MHz mode CH3**



Title: Power density  
Comment A: CH 3 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:37:05



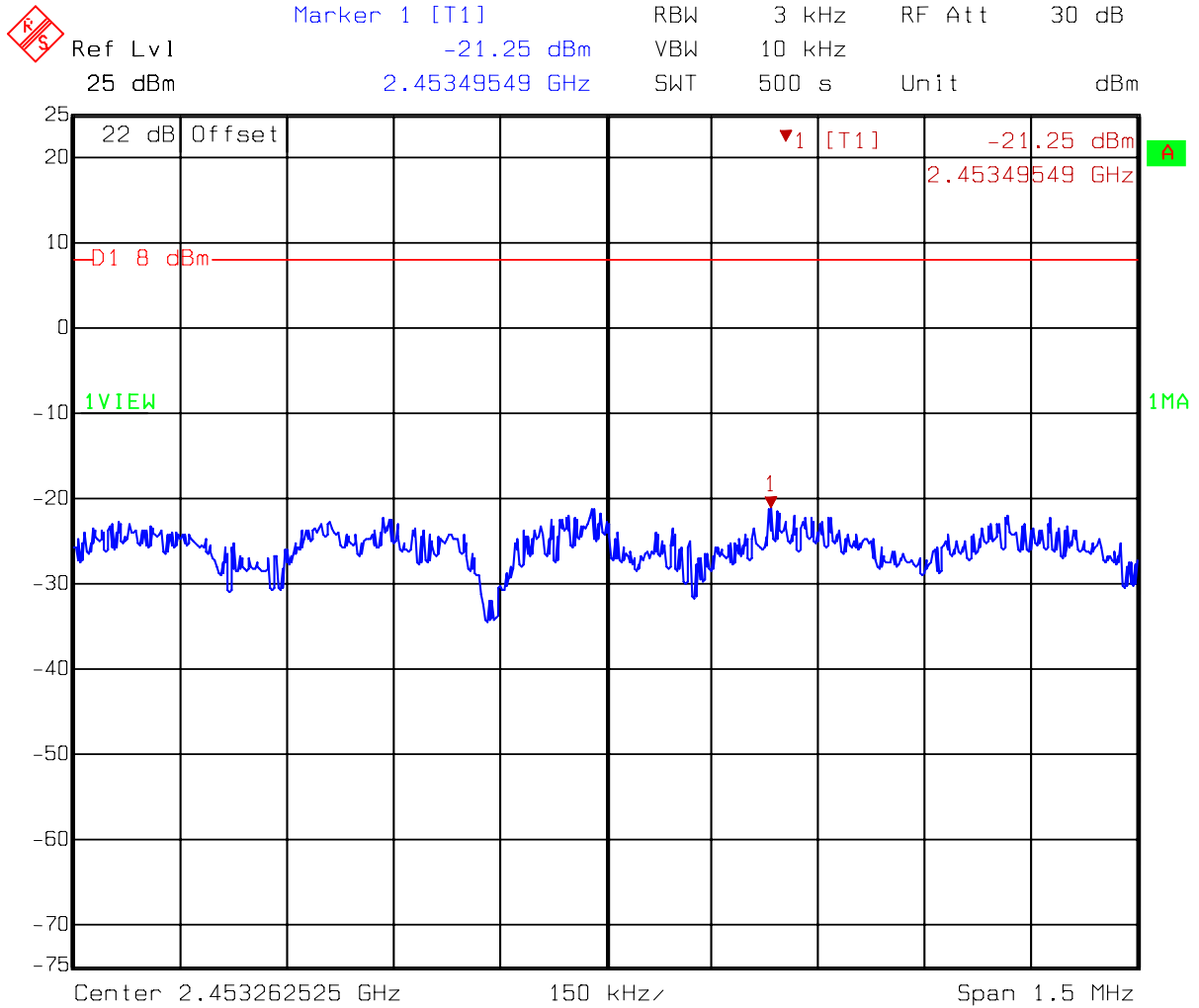
**Dual Tx**  
**DACB: 802.11n 40MHz mode CH6**



Title: Power density  
Comment A: CH 6 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:46:20



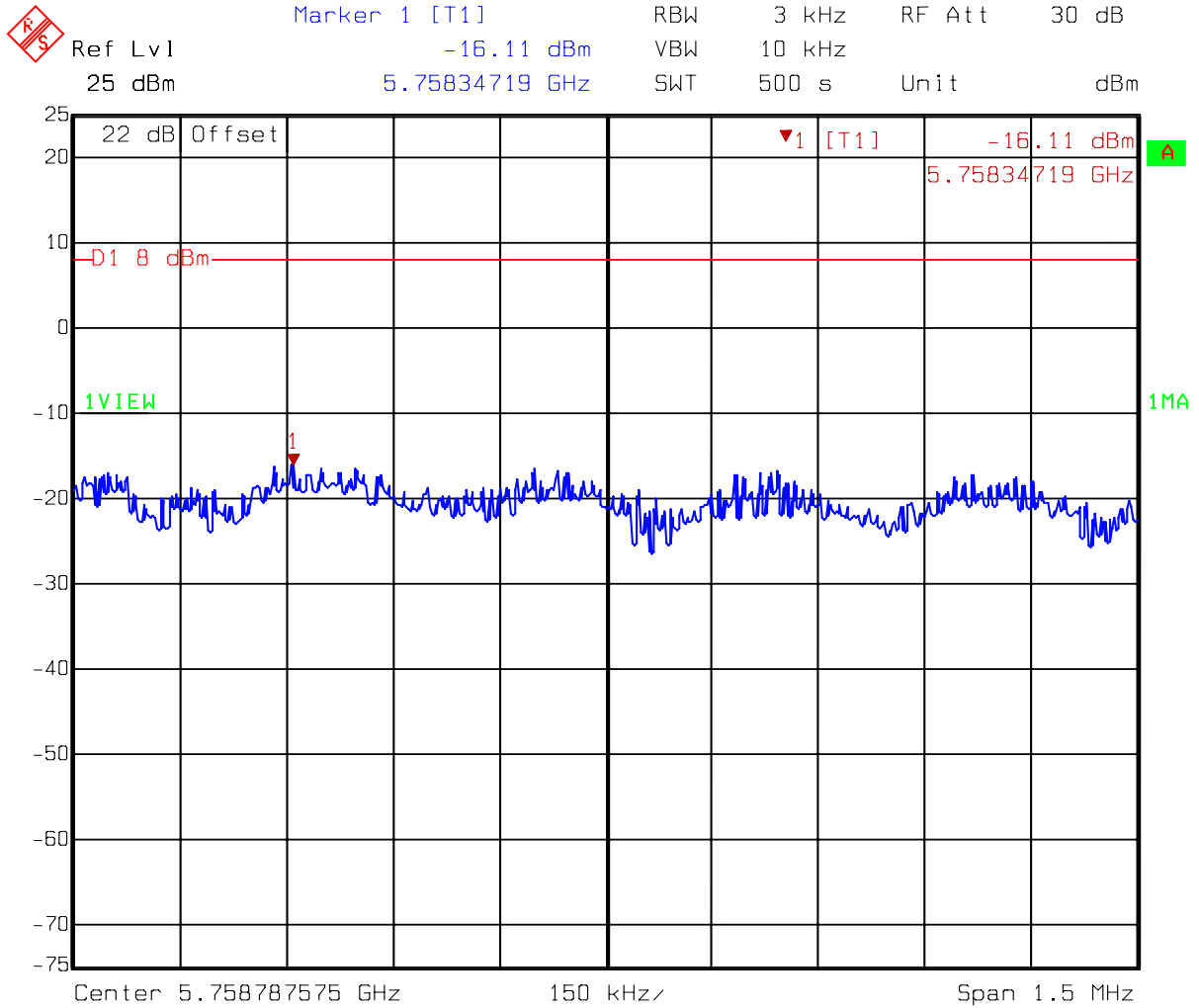
**Dual Tx**  
**DACB: 802.11n 40MHz mode CH9**



Title: Power density  
Comment A: CH 9 at 802.11n 40MHz mode  
Date: 13.NOV.2007 09:50:03



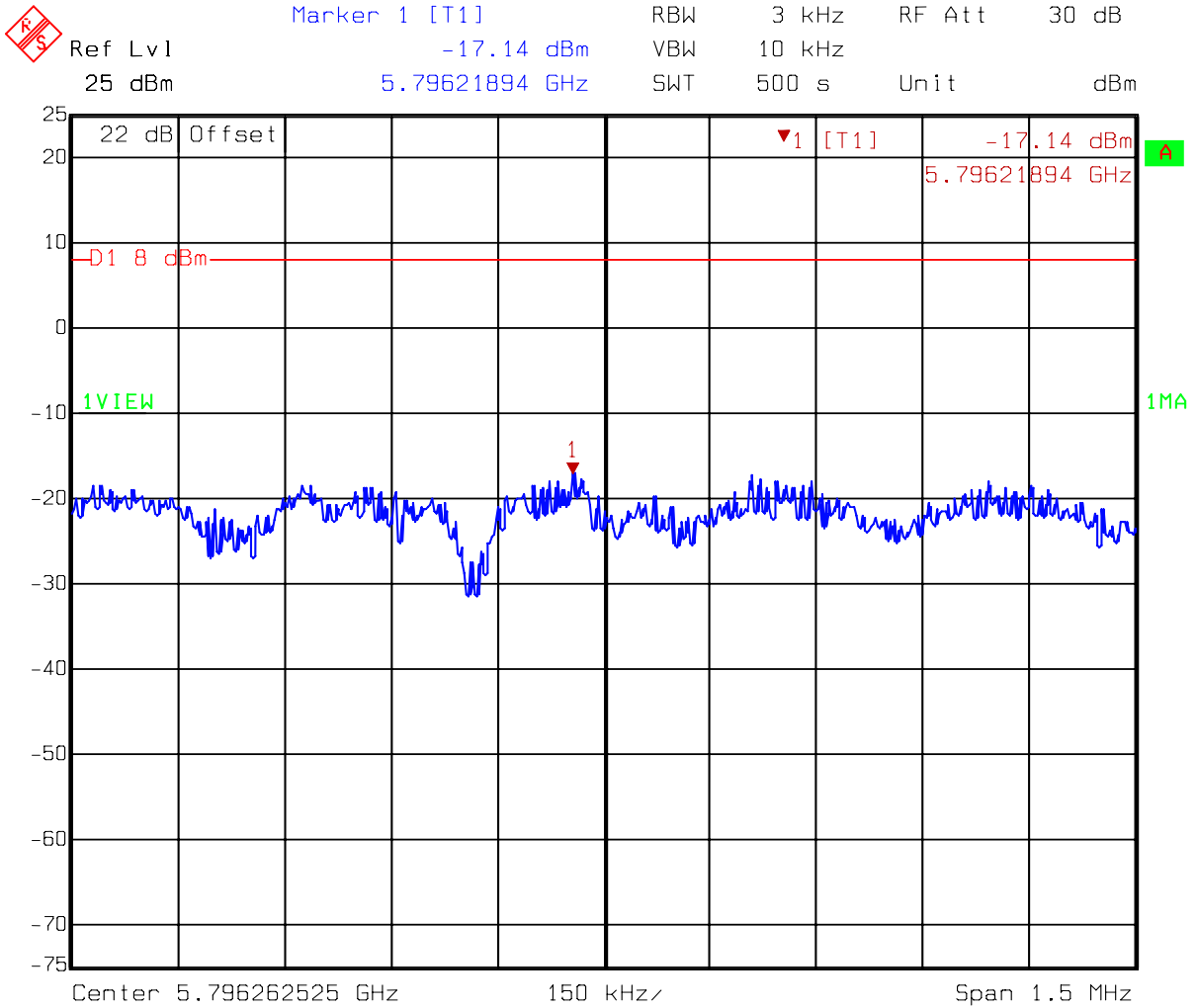
**Dual Tx**  
**DACB: 802.11n 40MHz mode CH151**



Title: Power density  
Comment A: CH 151 at 802.11n 40MHz mode  
Date: 13.NOV.2007 10:25:16



**Dual Tx**  
**DACB: 802.11n 40MHz mode CH159**



Title: Power density  
Comment A: CH 159 at 802.11n 40MHz mode  
Date: 13.NOV.2007 10:35:39

## 8. Emission on the band edge (FCC 15.247)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

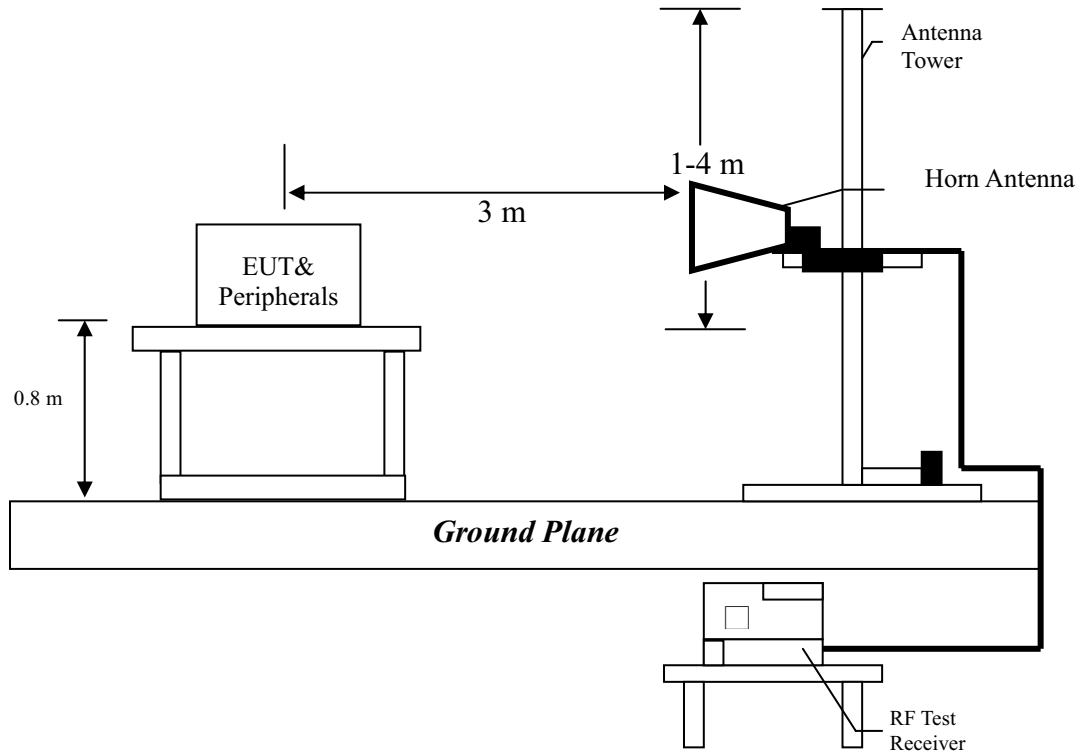
In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c))

### 8.1 Operating environment

Temperature:	25	°C
Relative Humidity:	50	%
Atmospheric Pressure	1023	hPa

**8.2 Test setup & procedure**

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.



### 8.3 Test Result

#### Single Tx

##### Test Mode: 802.11b (DACA)

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	60.73	74	-13.27
		AV	48.89	54	-5.11
11 (highest)	2483.5-2500	PK	61.42	74	-12.58
		AV	49.59	54	-4.41

##### Test Mode: 802.11g (DACA)

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	59.69	74	-14.31
		AV	48.39	54	-5.61
11 (highest)	2483.5-2500	PK	61.13	74	-12.87
		AV	48.86	54	-5.14

**Test Mode: 802.11b (DACB)**

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	60.90	74	-13.1
		AV	48.90	54	-5.10
11 (highest)	2483.5-2500	PK	60.21	74	-13.79
		AV	48.58	54	-5.42

**Test Mode: 802.11g (DACB)**

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	59.65	74	-14.35
		AV	47.94	54	-6.06
11 (highest)	2483.5-2500	PK	59.90	74	-14.10
		AV	48.07	54	-5.93

**Dual Tx**

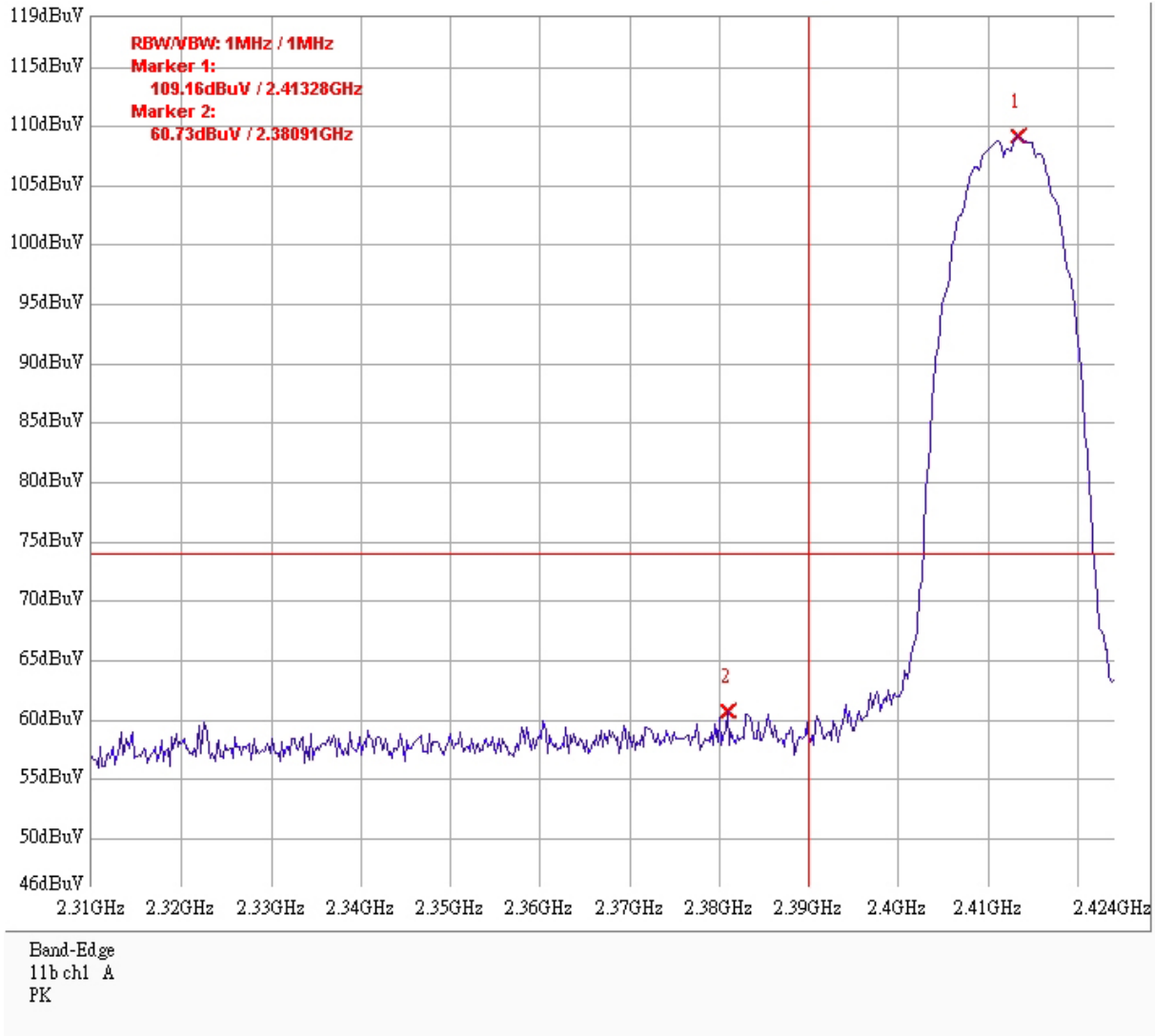
**Test Mode: 802.11n 20MHz (DACA&B)**

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	59.85	74	-14.15
		AV	50.22	54	-3.78
11 (highest)	2483.5-2500	PK	59.53	74	-14.47
		AV	48.19	54	-5.81

**Test Mode: 802.11n 40MHz (DACA&B)**

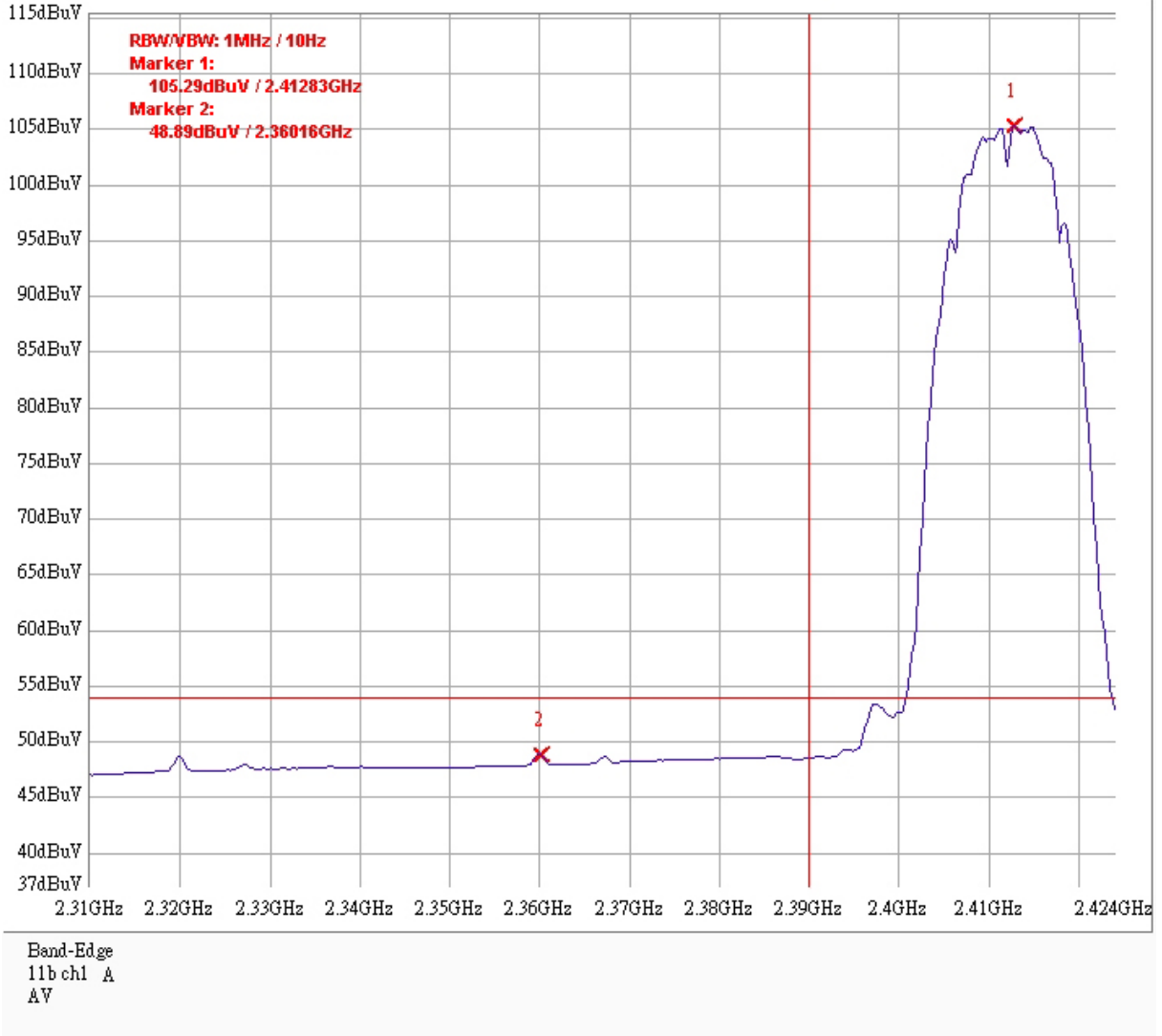
Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
3 (lowest)	2310-2390	PK	62.49	74	-11.51
		AV	49.57	54	-4.43
9 (highest)	2483.5-2500	PK	61.97	74	-12.03
		AV	49.34	54	-4.66

## Single Tx DACA: 802.11b mode CH1 PK

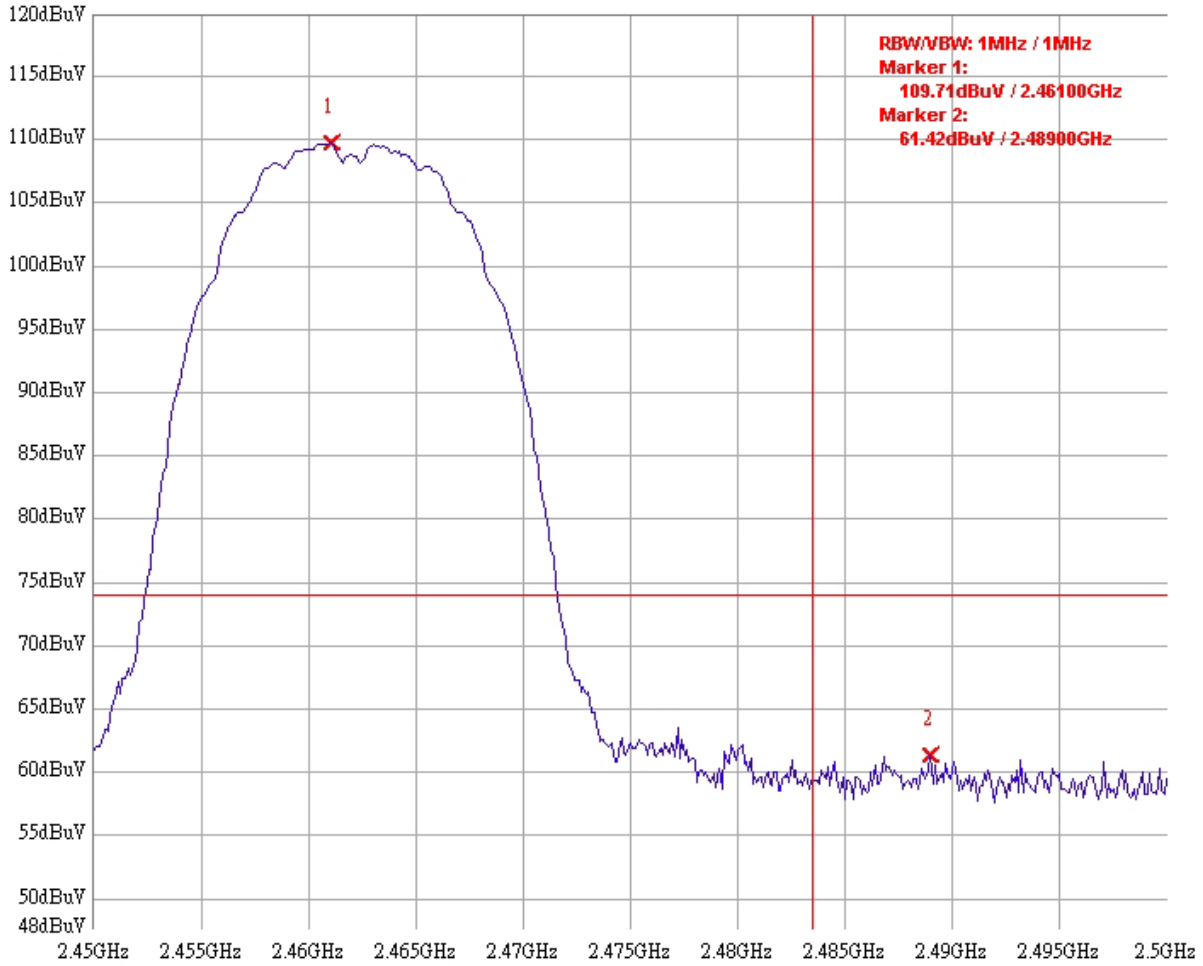


## Single Tx

DACA: 802.11b mode CH1 AV

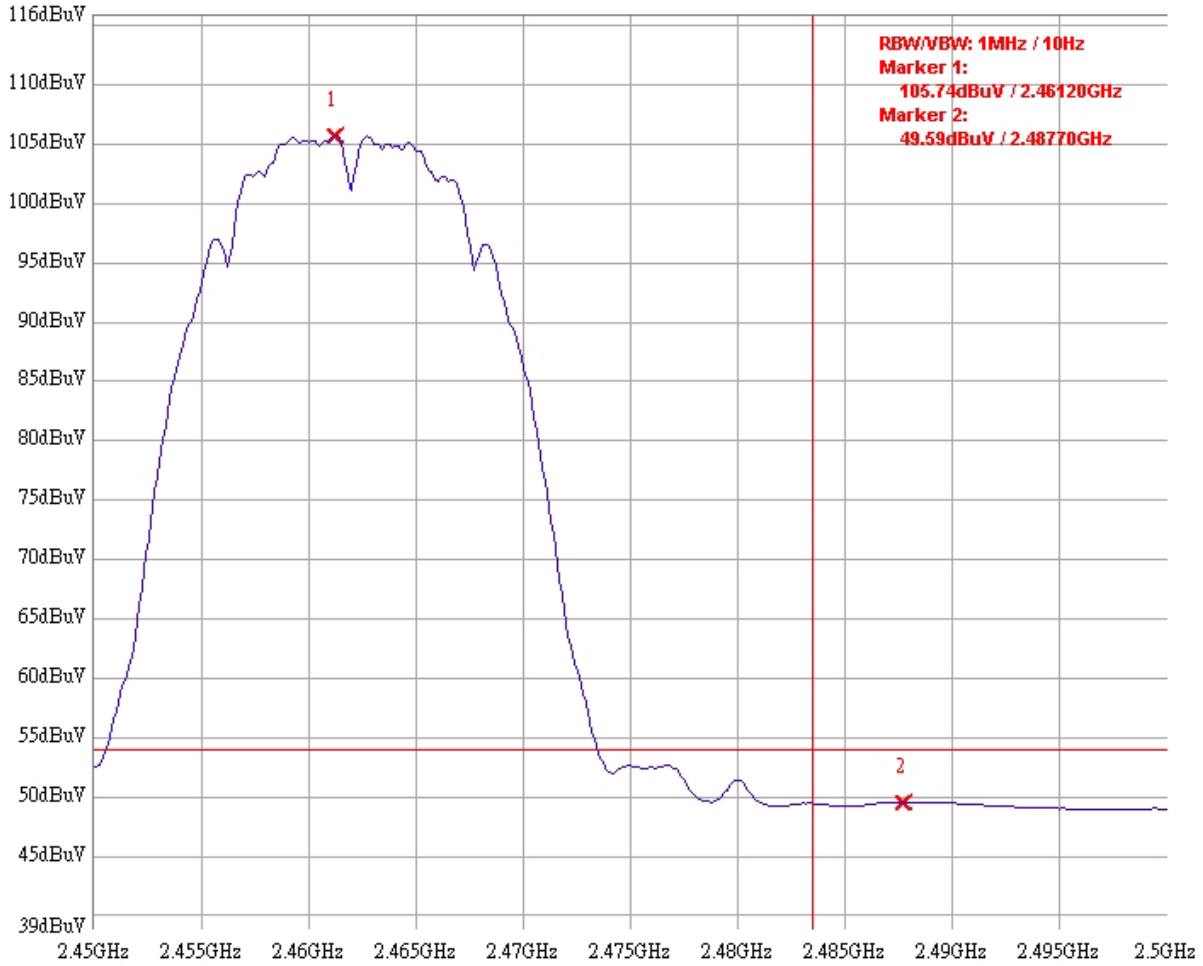


## Single Tx DACA: 802.11b mode CH11 PK



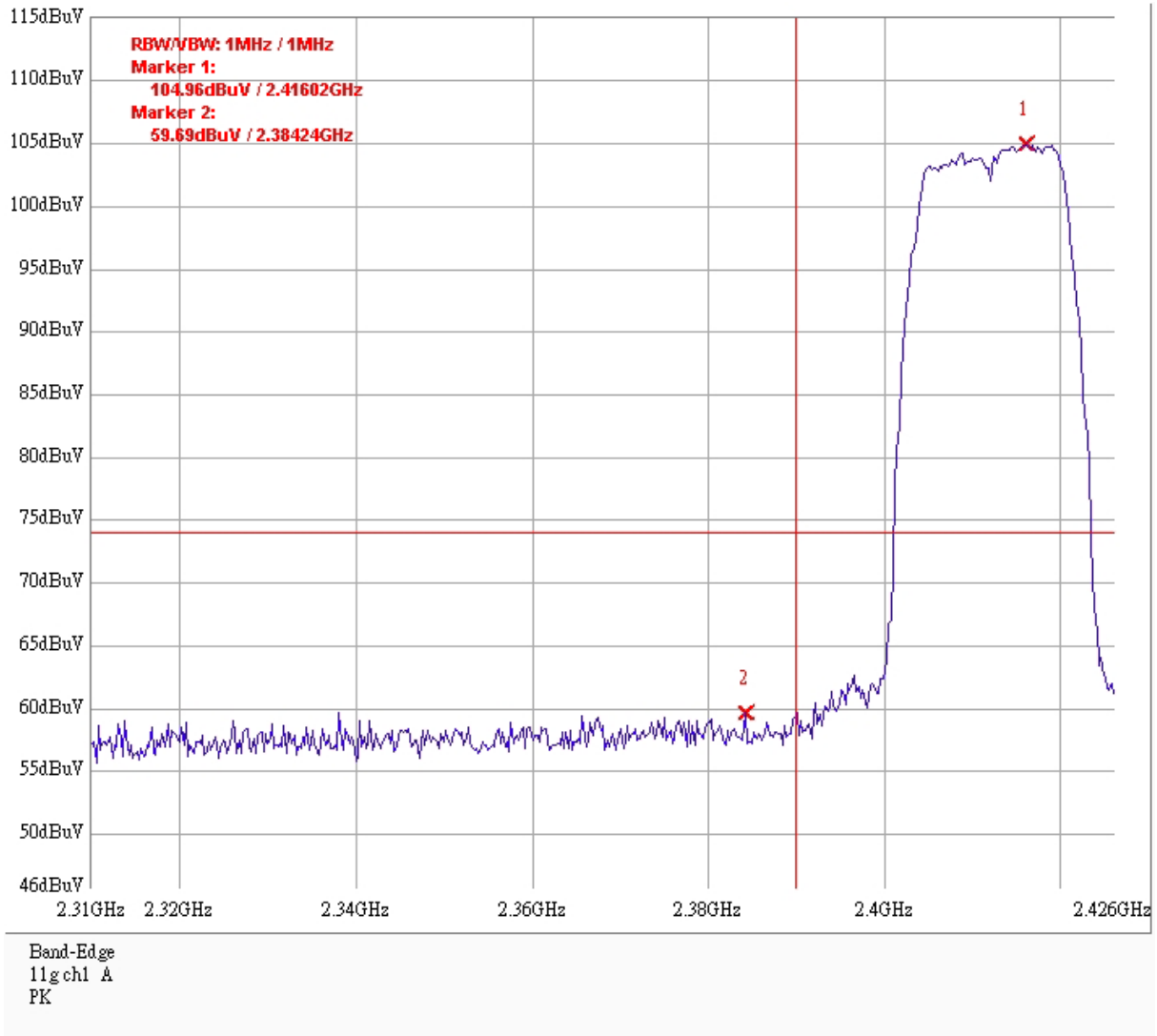
Band-Edge  
11b ch11 A  
PK

## Single Tx DACA: 802.11b mode CH11 AV



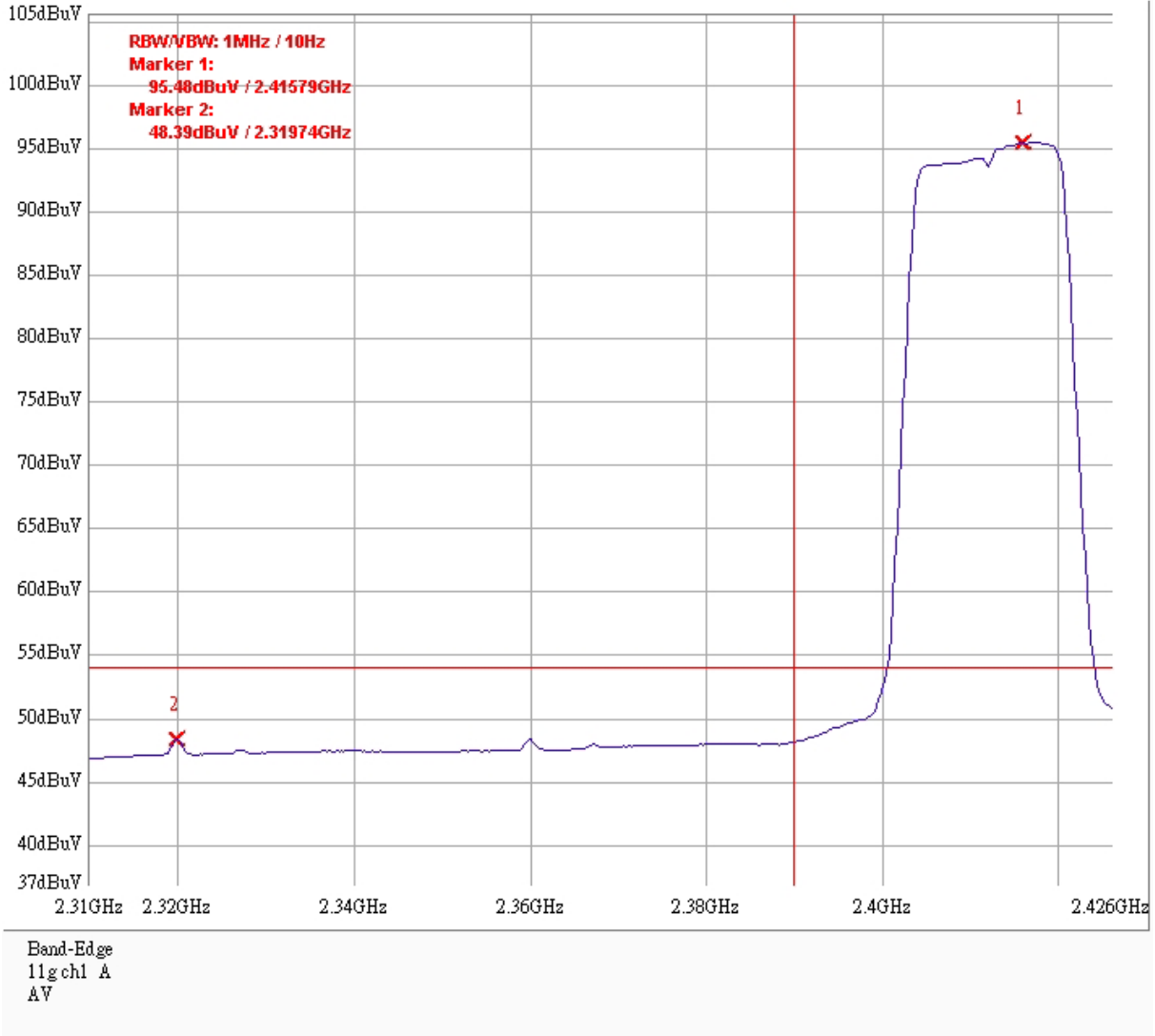
Band-Edge  
11b ch11 A  
AV

## Single Tx DACA: 802.11g mode CH1 PK

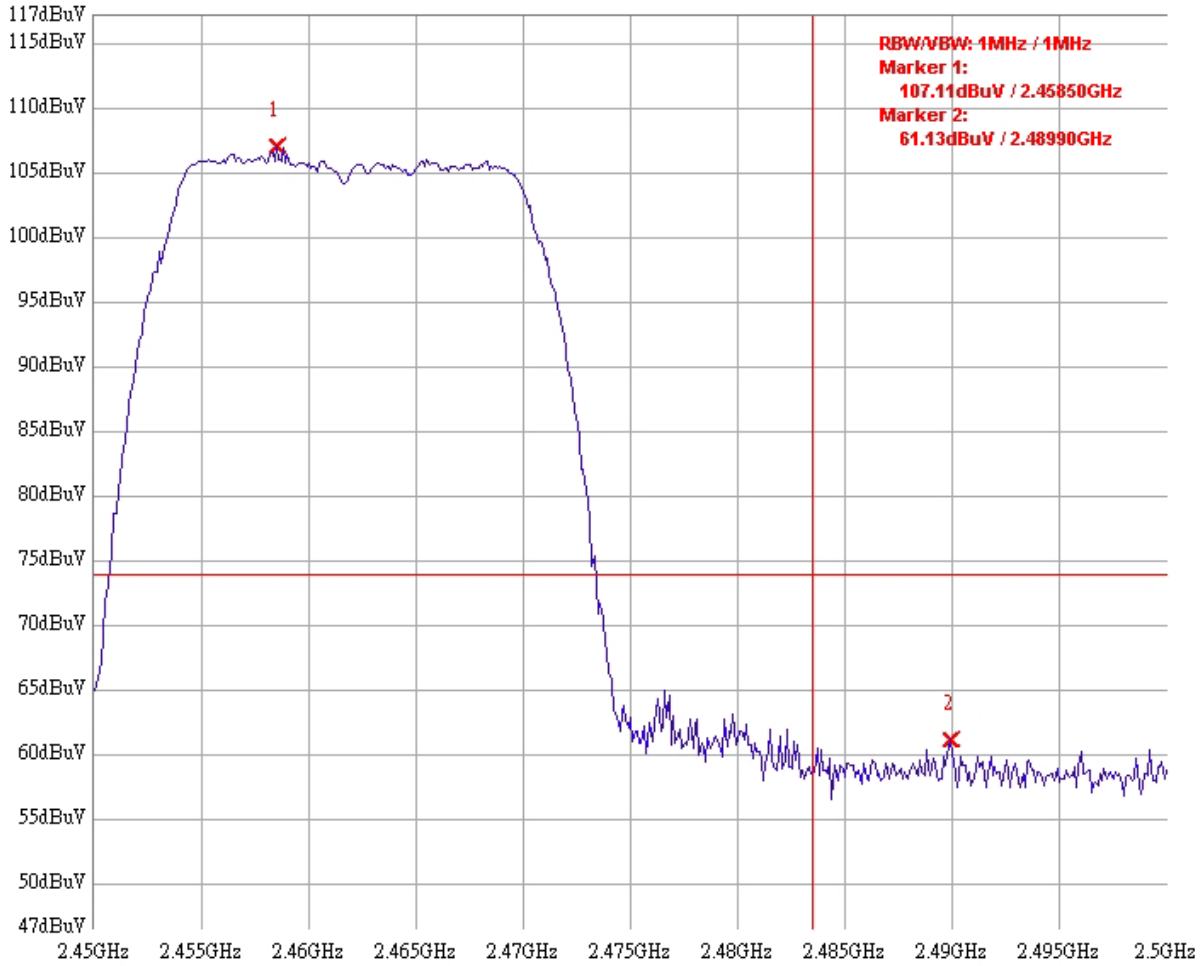




## Single Tx DACA: 802.11g mode CH1 AV

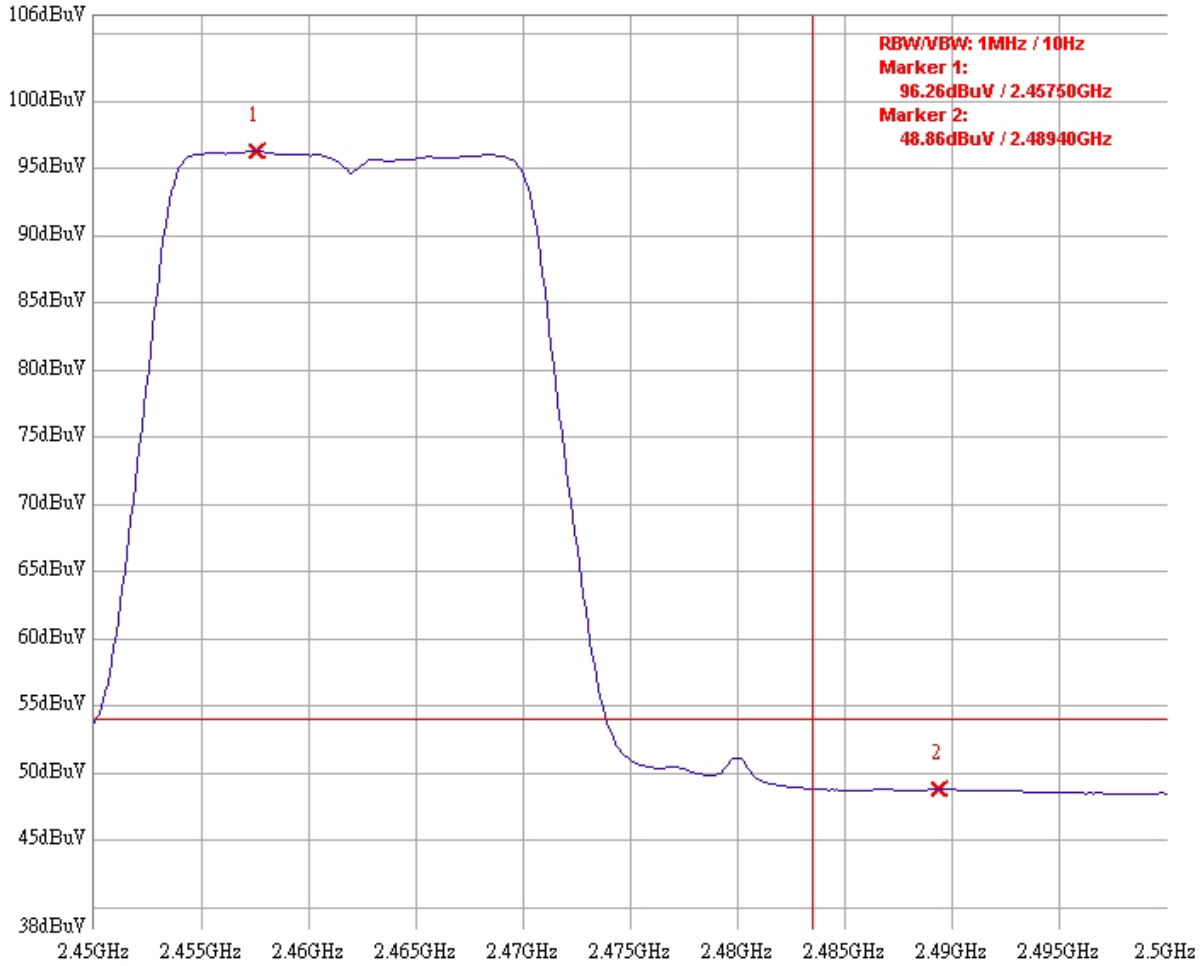


## Single Tx DACA: 802.11g mode CH11 PK



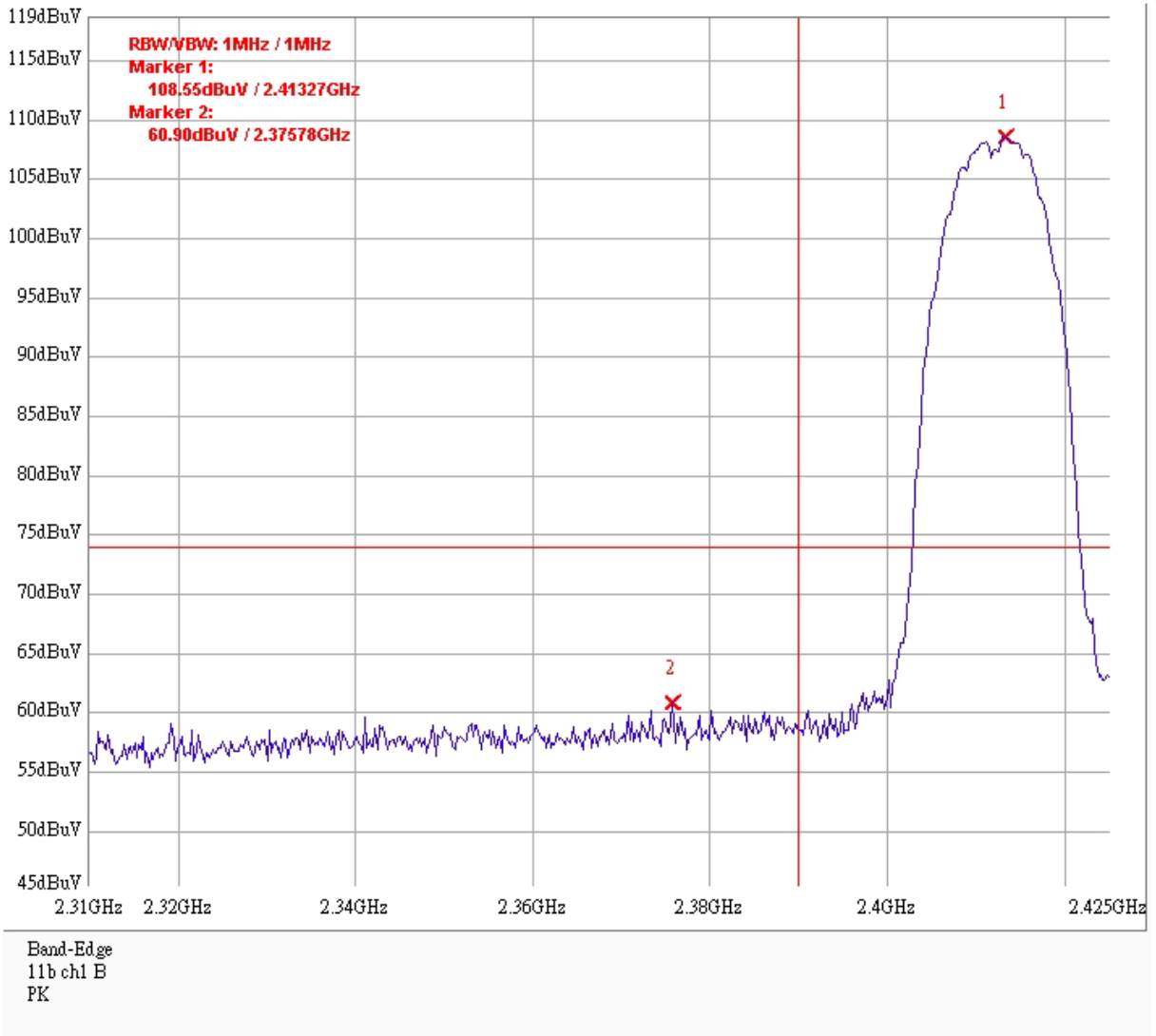
Band-Edge  
11g ch11 A  
PK

## Single Tx DACA: 802.11g mode CH11 AV

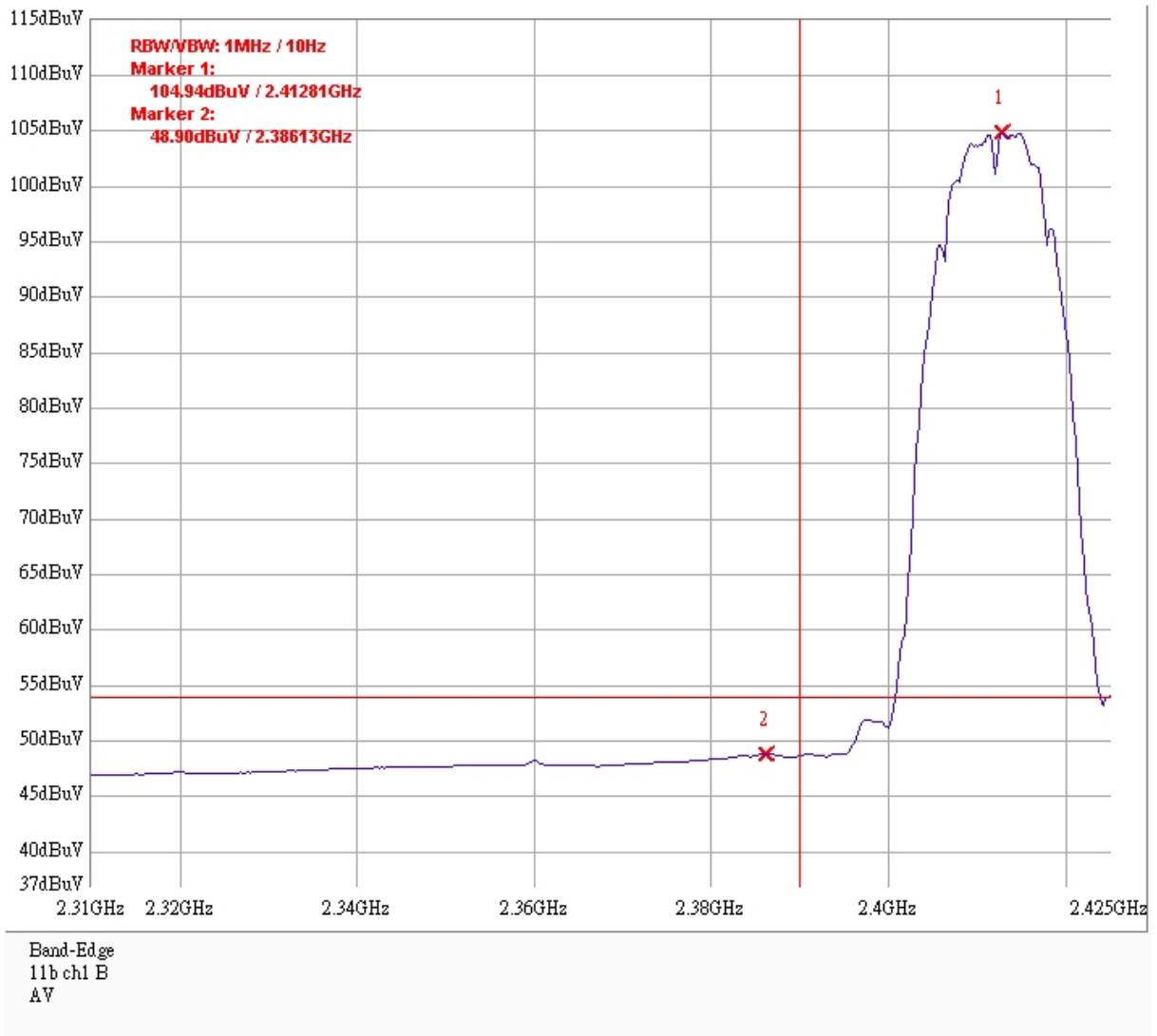


Band-Edge  
11g ch11 A  
AV

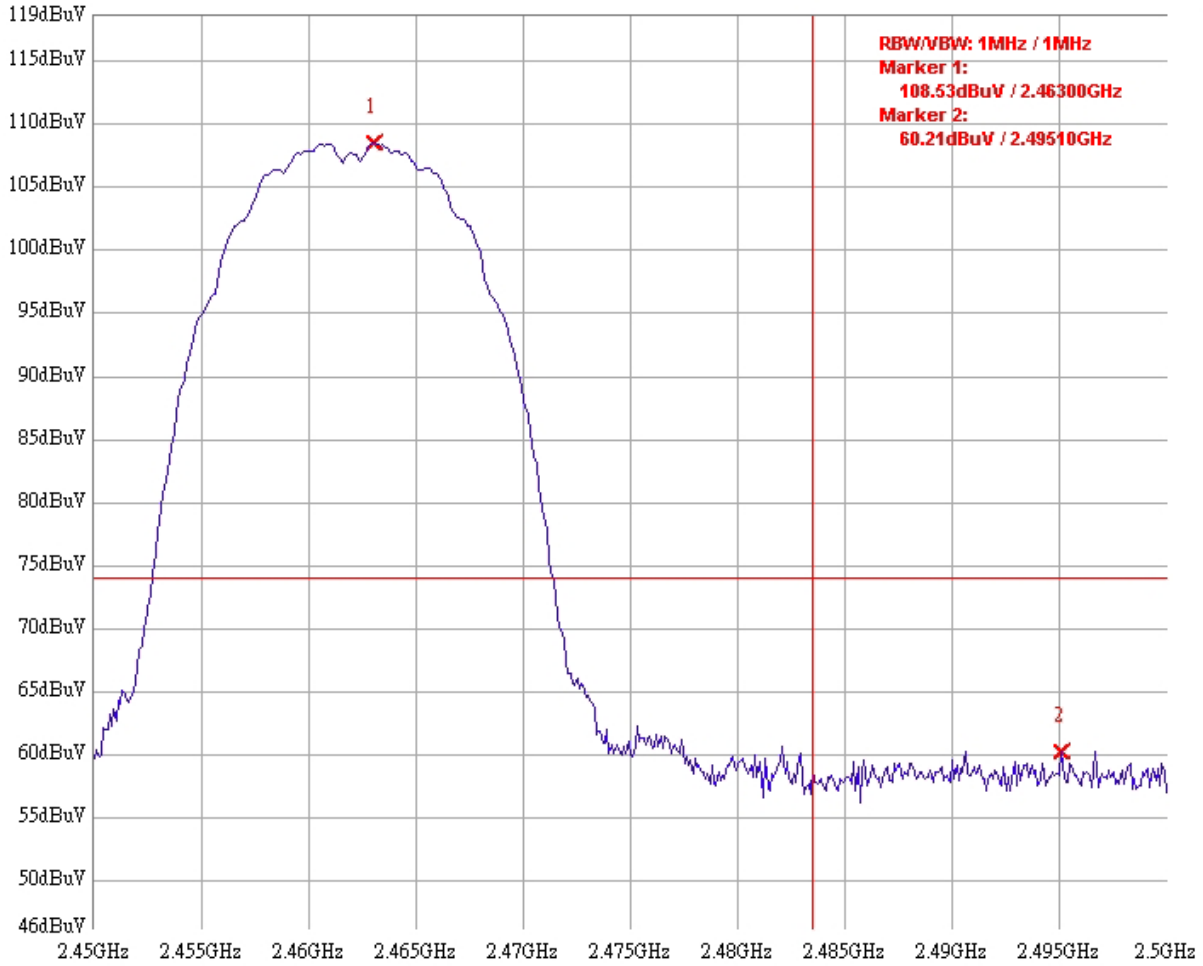
## Single Tx DACB: 802.11b mode CH1 PK



## Single Tx DACB: 802.11b mode CH1 AV

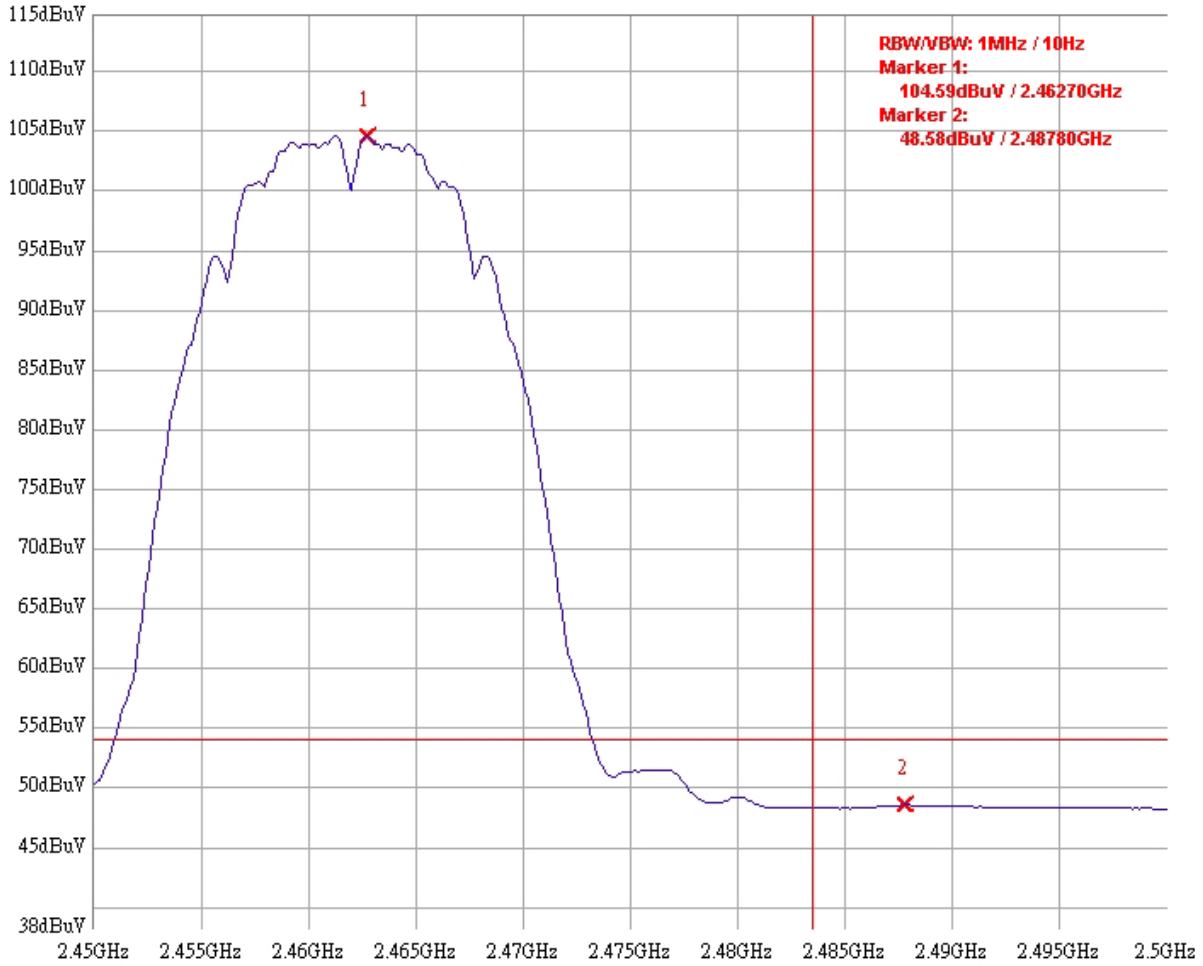


## Single Tx DACB: 802.11b mode CH11 PK



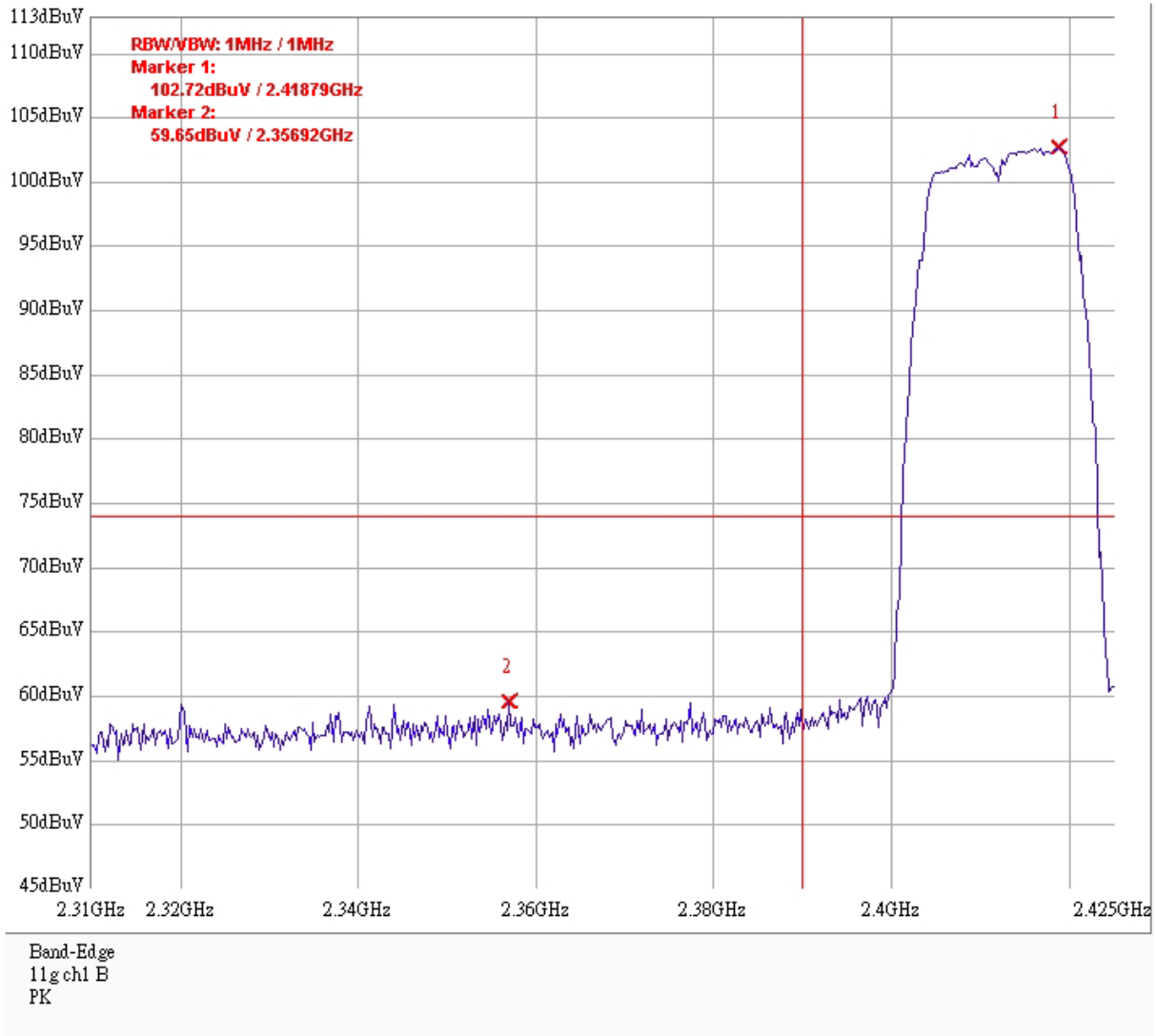
Band-Edge  
11b ch11 B  
PK

## Single Tx DACB: 802.11b mode CH11 AV



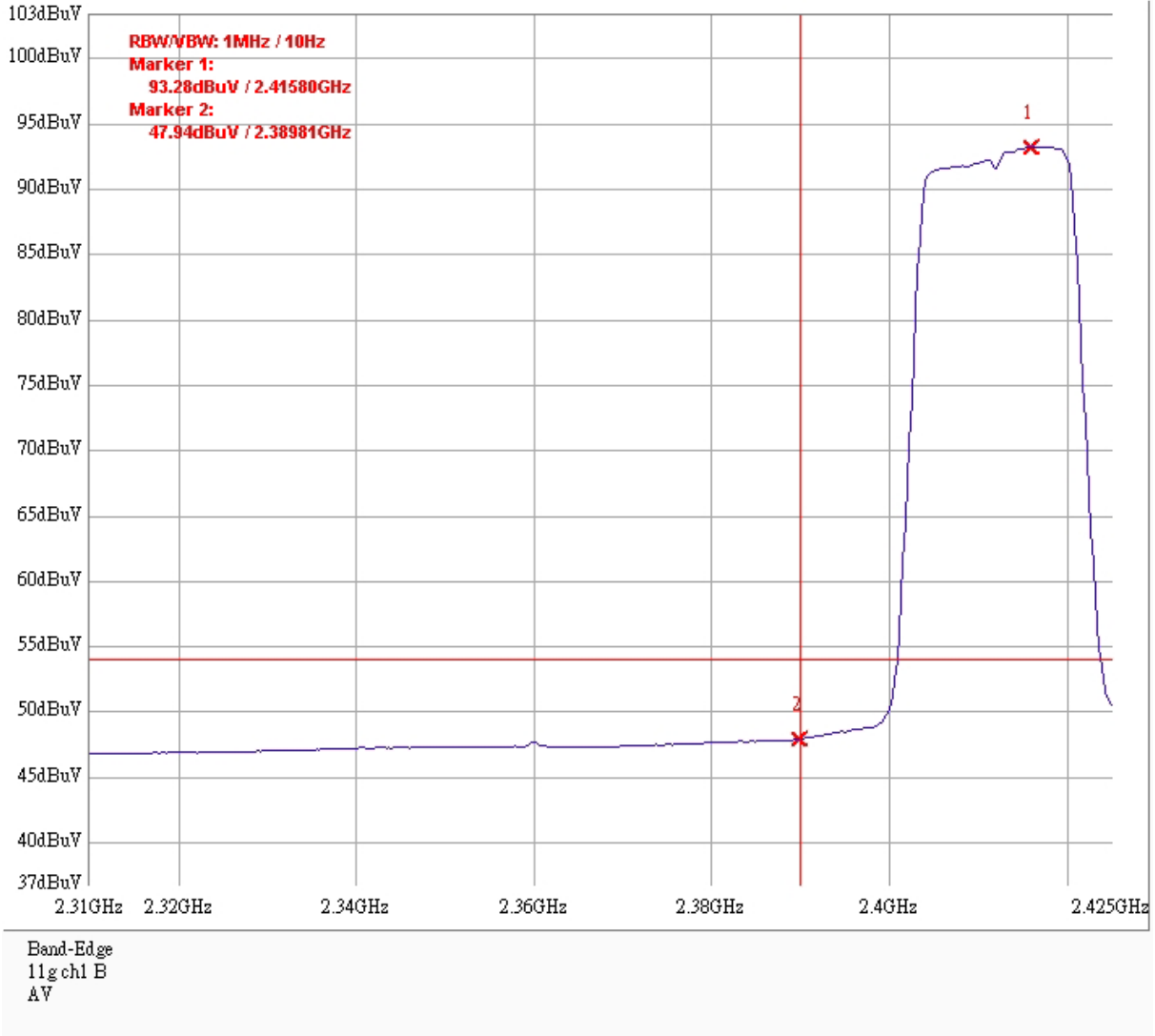
Band-Edge  
11b ch11 B  
AV

## Single Tx DACB: 802.11g CH1 PK

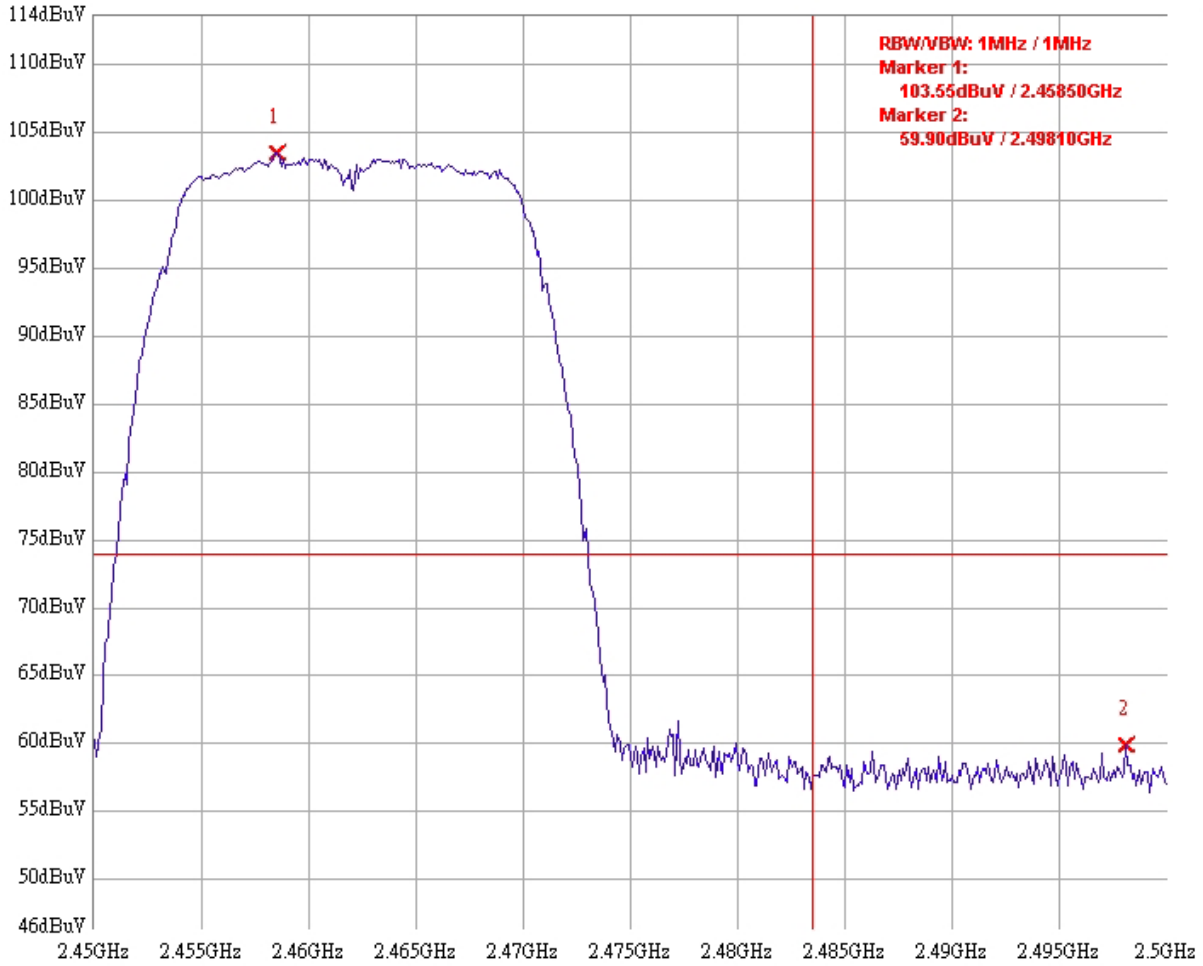




## Single Tx DACB: 802.11g CH1 AV

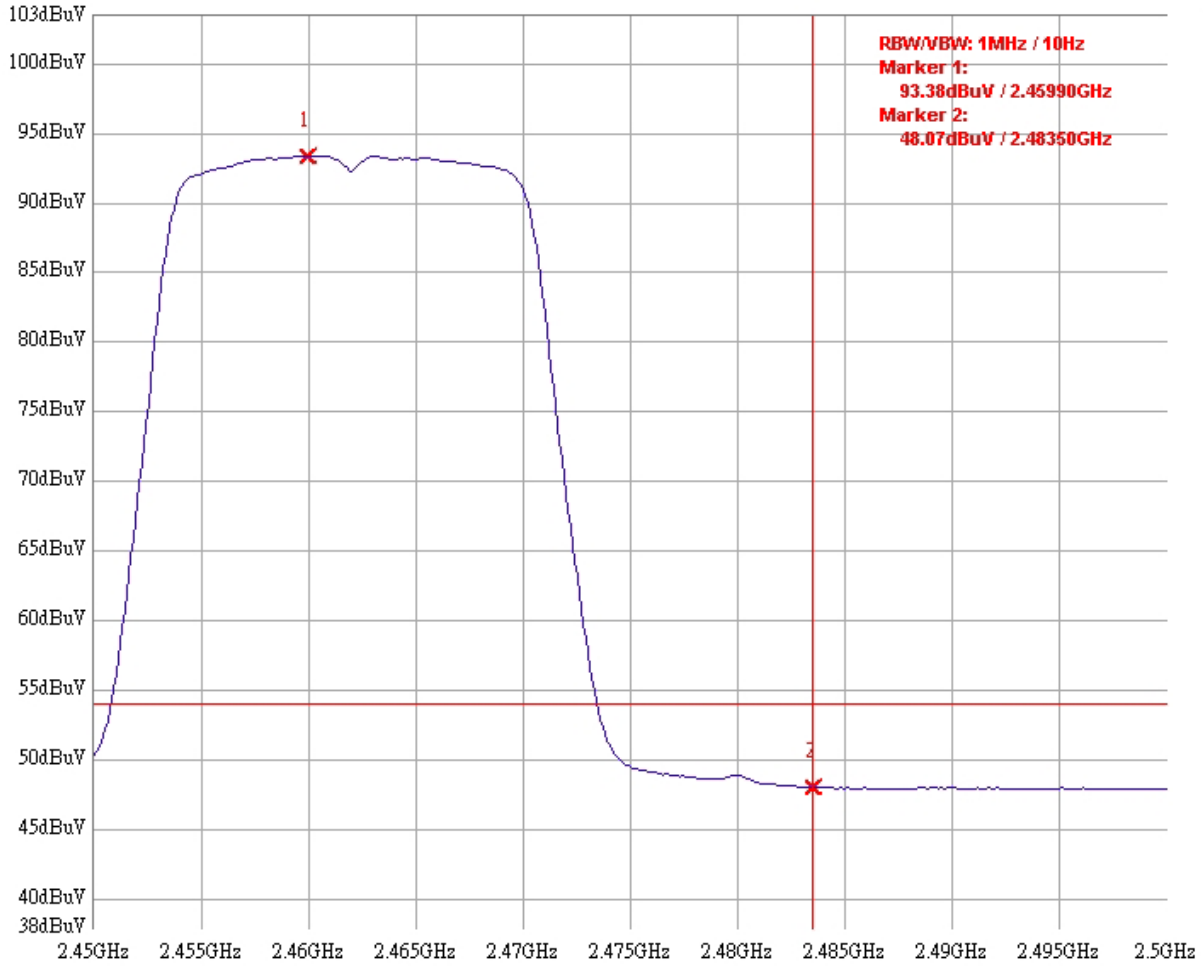


## Single Tx DACB: 802.11g CH11 PK



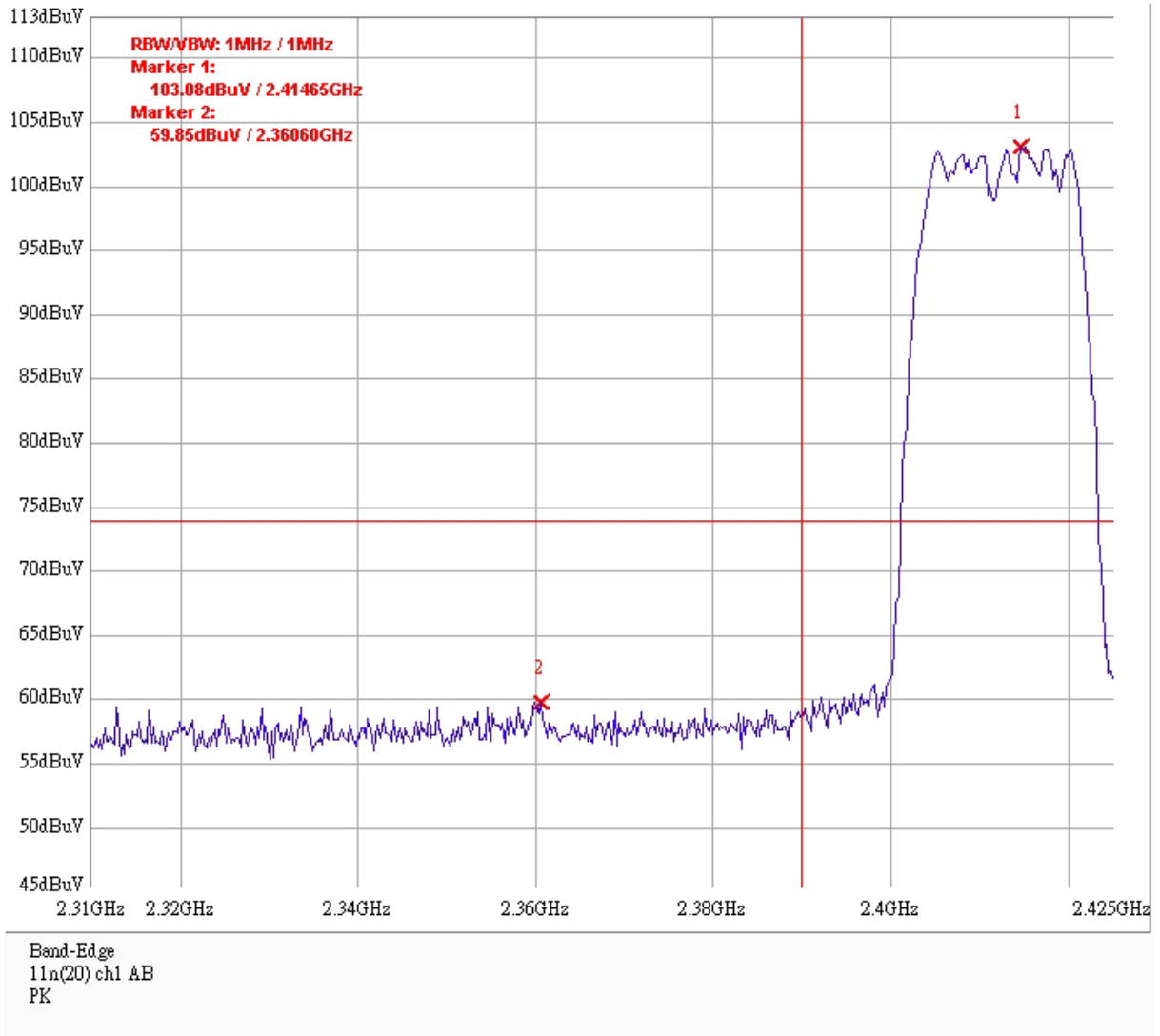
Band-Edge  
11g ch11 B  
PK

## Single Tx DACB: 802.11g CH11 AV

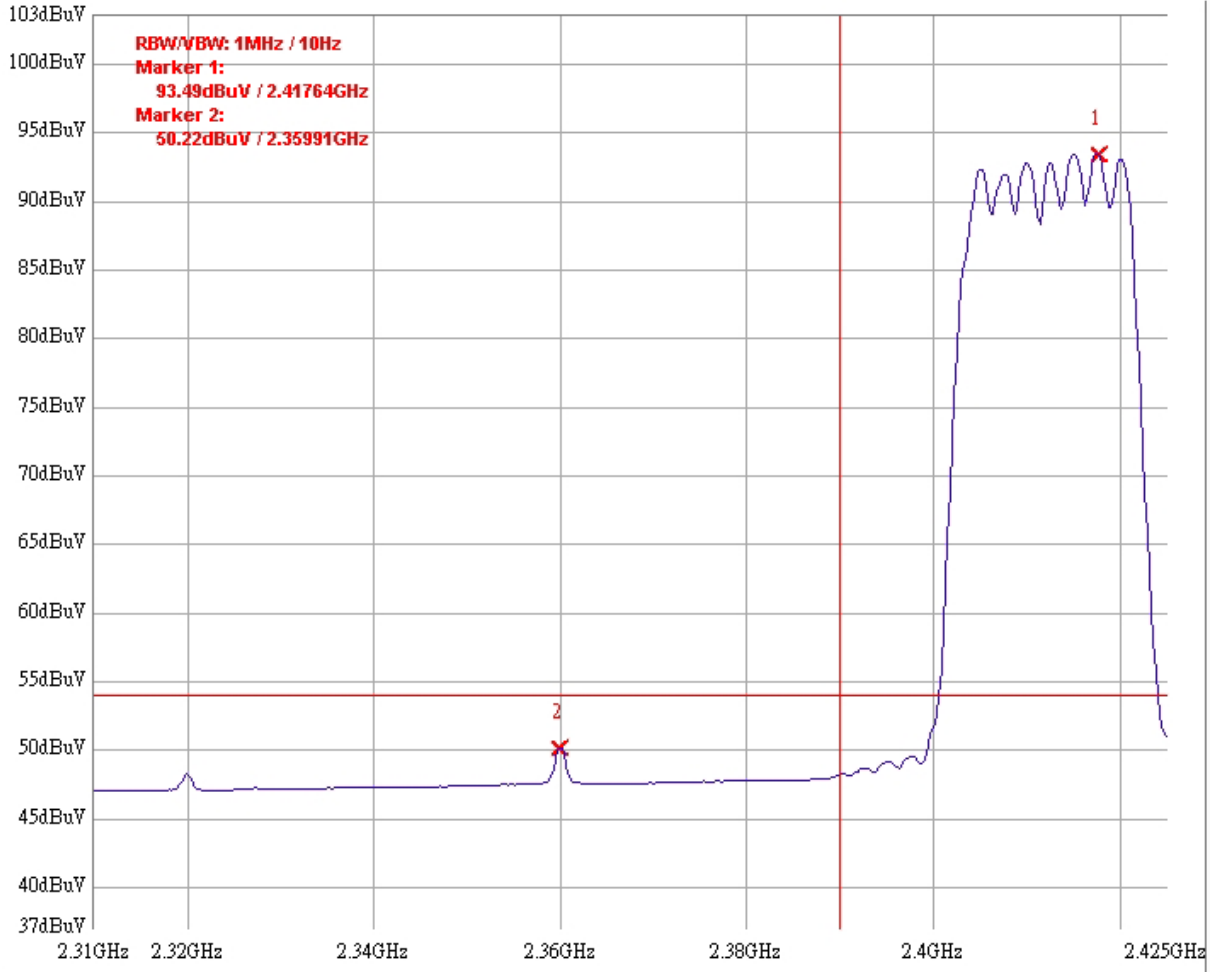


Band-Edge  
11g ch11 B  
AV

## Dual Tx DACA&B: 802.11n 20MHz CH1 PK

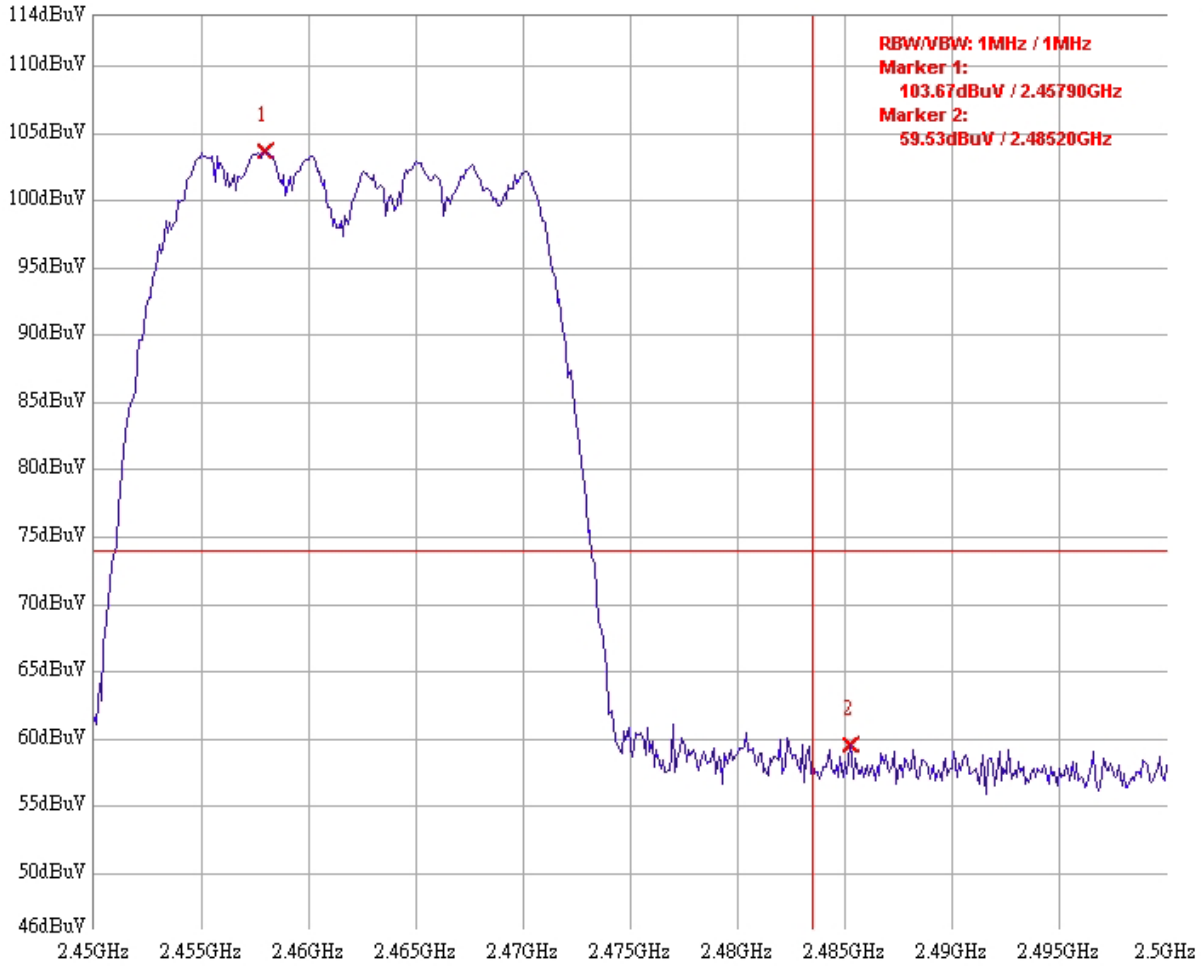


## Dual Tx DACA&B: 802.11n 20MHz CH1 AV



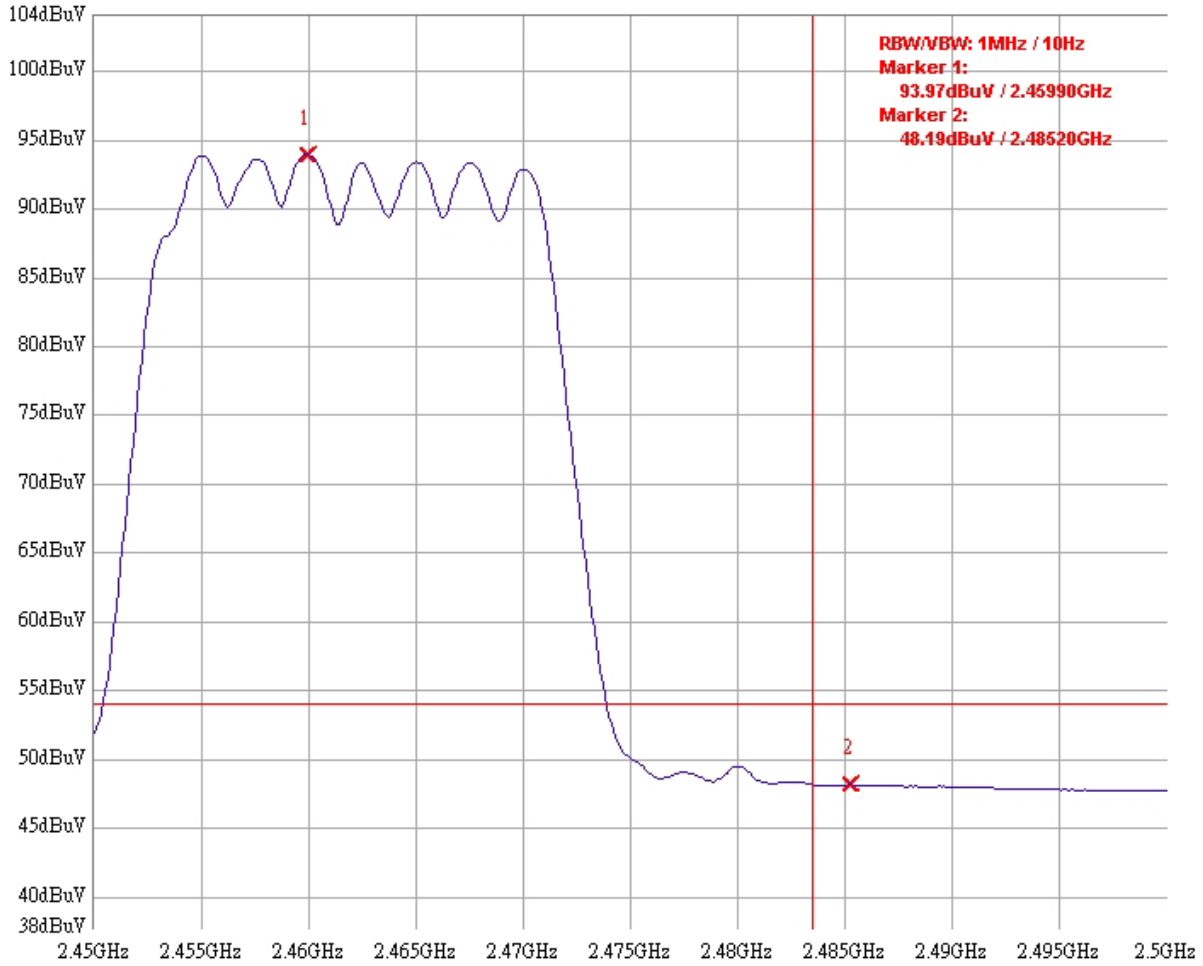
Band-Edge  
11n(20) ch1 AB  
AV

## Dual Tx DACA&B: 802.11n 20MHz CH11 PK



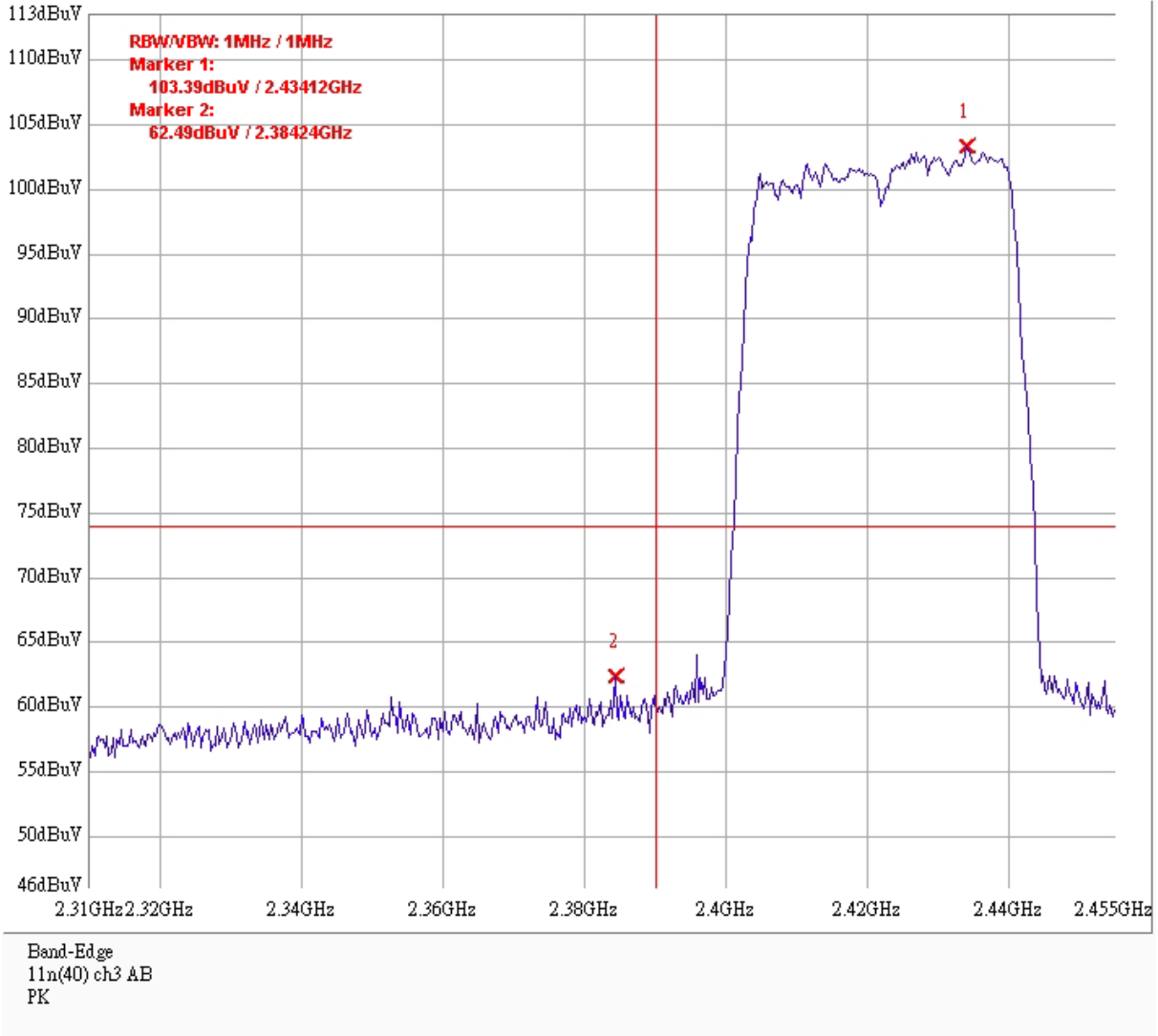
Band-Edge  
11n(20) ch11 AB  
PK

## Dual Tx DACA&B: 802.11n 20MHz CH11 AV



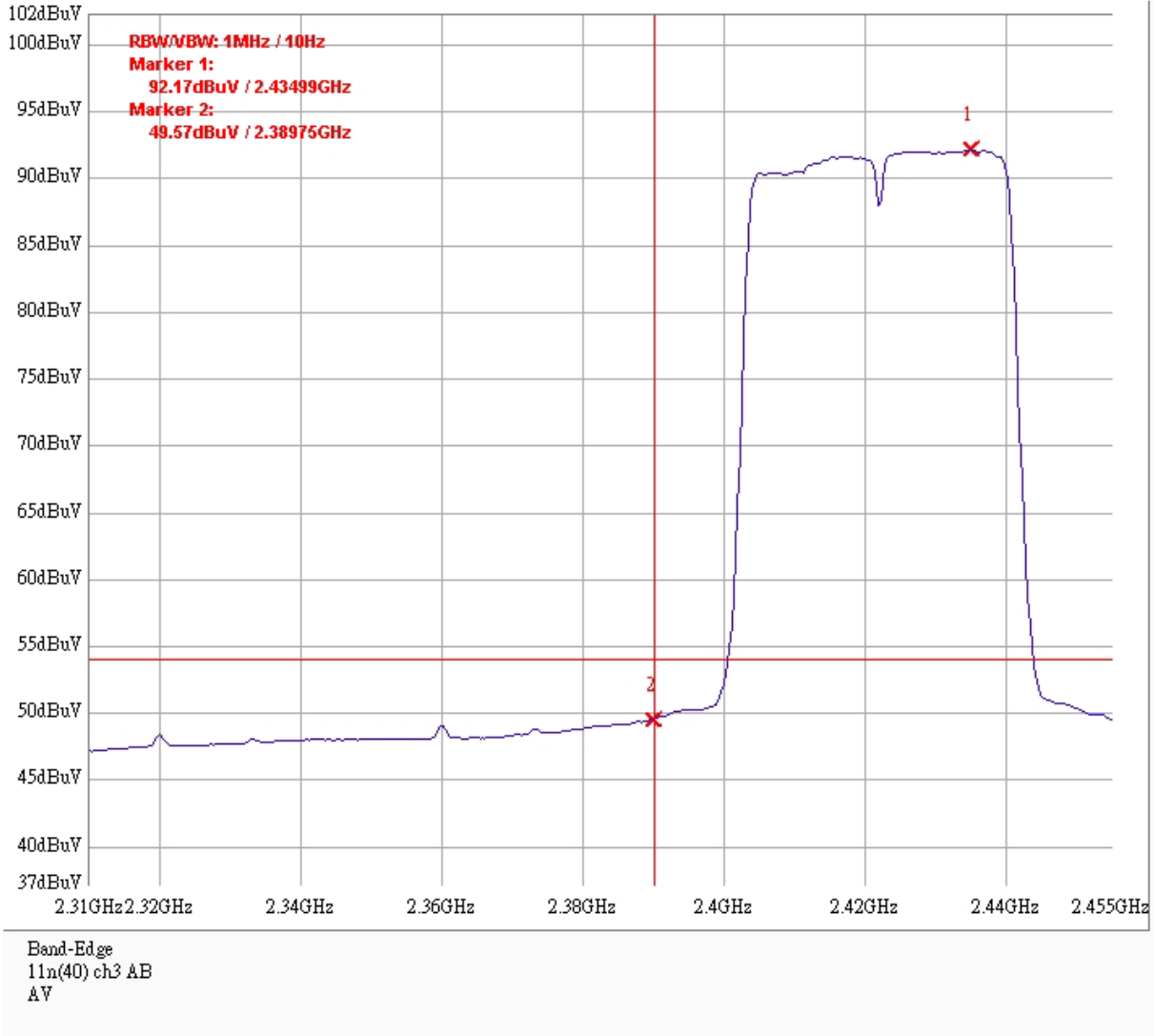
Band-Edge  
11n(20) ch11 AB  
AV

## Dual Tx DACA&B: 802.11n 40MHz CH3 PK

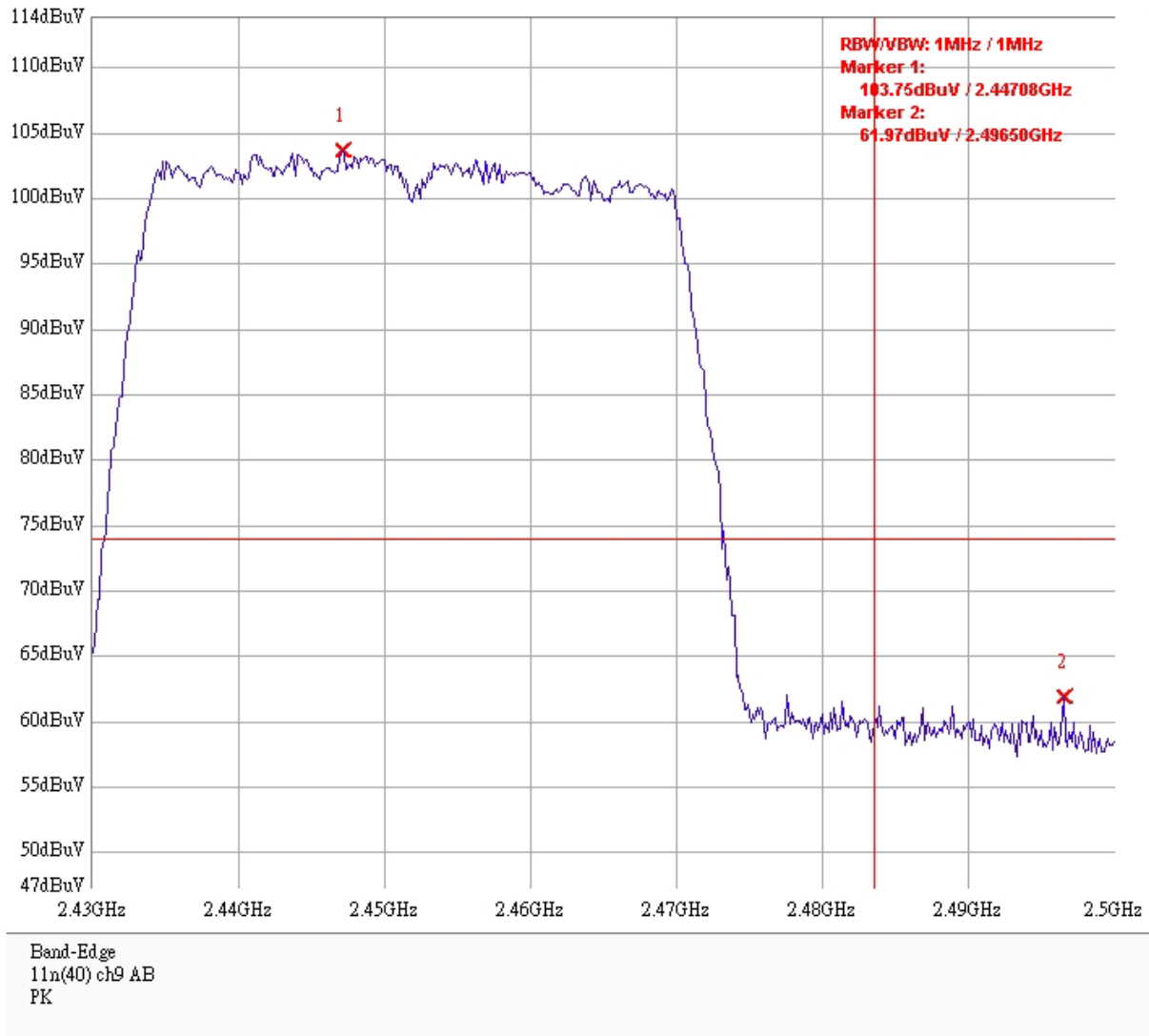




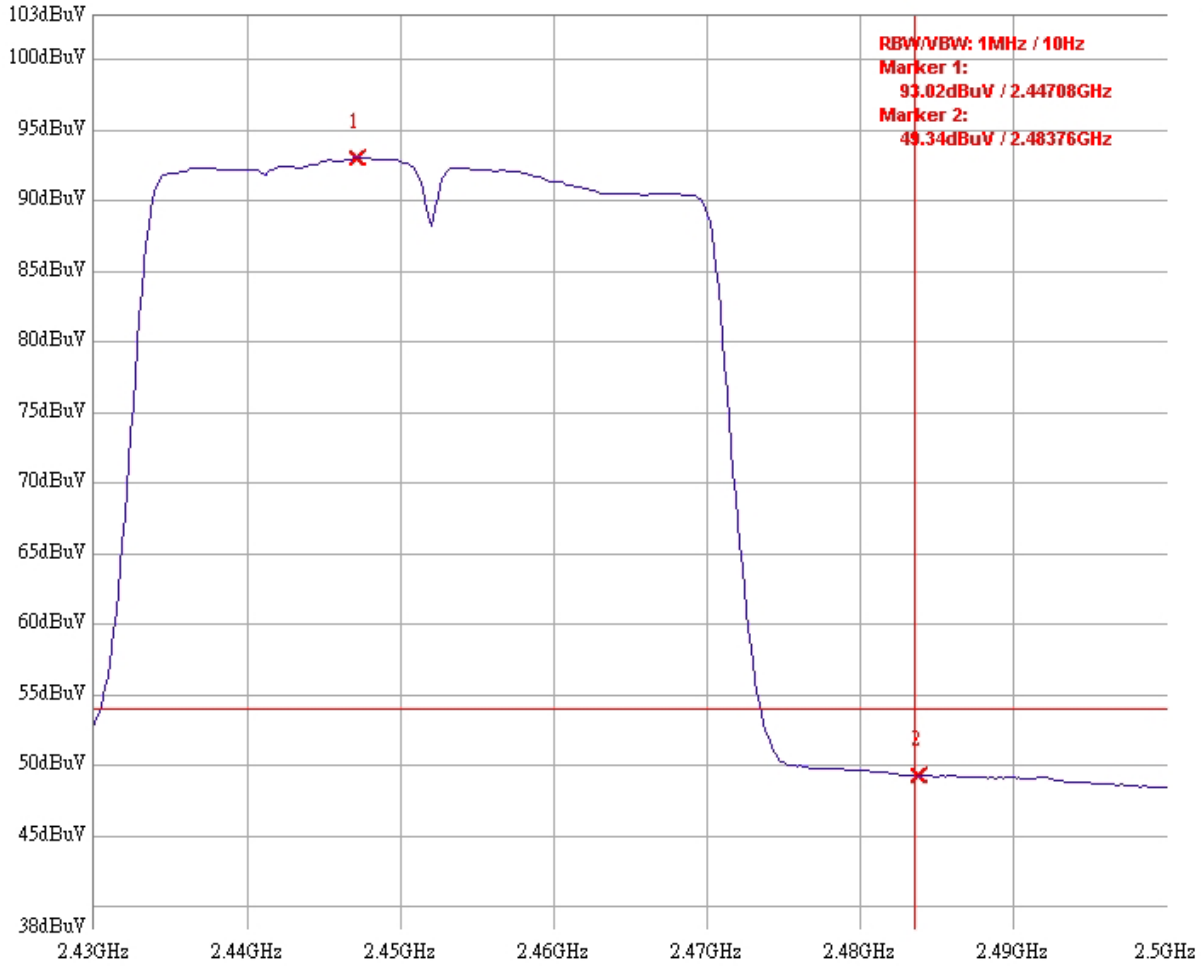
## Dual Tx DACA&B: 802.11n 40MHz CH3 AV



## Dual Tx DACA&B: 802.11n 40MHz CH9 PK



## Dual Tx DACA&B: 802.11n 40MHz CH9 AV



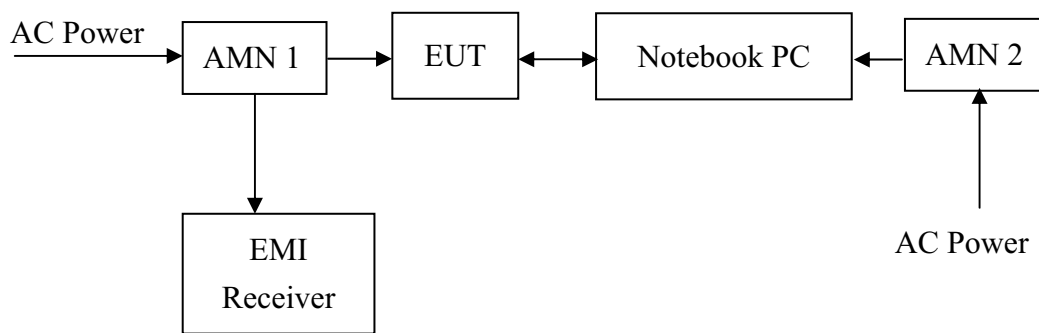
Band-Edge  
11n(40) ch9 AB  
AV

## 9. Power Line Conducted Emission test §FCC 15.207

### 9.1 Operating environment

Temperature:	23	°C
Relative Humidity:	58	%
Atmospheric Pressure	1023	hPa

### 9.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement. The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

### 9.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

\*Decreases with the logarithm of the frequency.

### 9.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.26$  dB.

### 9.5 Power Line Conducted Emission test data

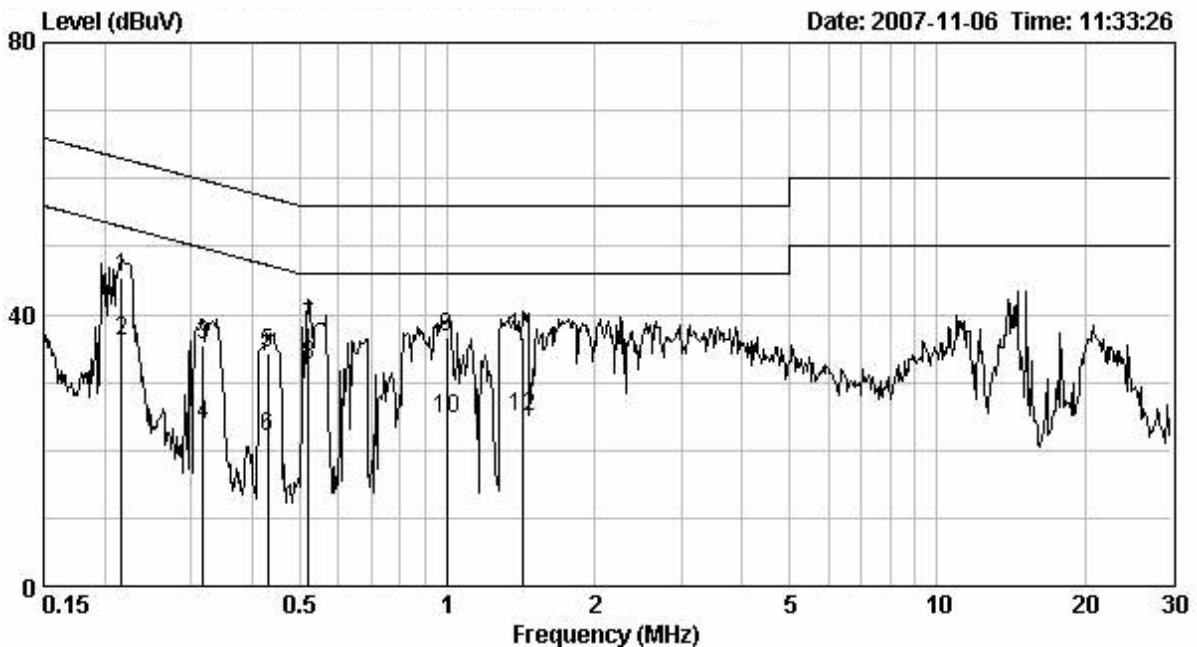
The test was performed on EUT under 802.11a/b/g/n continuously transmitting mode. The worst case occurred at 802.11b Tx at channel 1.

Phase: Line  
 Model No.: DSM-750  
 Worst Case: 802.11b Tx at channel 1

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level AV (dBuV)	Limit Av (dBuV)	Margin (dB)	
						Qp	Av
0.216	0.72	45.36	62.96	36.09	52.96	-17.60	-16.87
0.317	0.33	35.33	59.78	23.72	49.78	-24.45	-26.06
0.429	0.10	34.34	57.26	22.11	47.26	-22.92	-25.15
0.520	0.10	38.02	56.00	32.52	46.00	-17.98	-13.48
0.999	0.10	36.65	56.00	24.71	46.00	-19.35	-21.29
1.430	0.12	36.66	56.00	24.89	46.00	-19.34	-21.11

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)





Phase: Neutral  
Model No.: DSM-750  
Worst Case: 802.11b Tx at channel 1

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level AV (dBuV)	Limit Av (dBuV)	Margin (dB)	
						Qp	Av
0.211	0.10	48.68	63.15	37.07	53.15	-14.47	-16.08
0.328	0.10	39.15	59.51	30.10	49.51	-20.36	-19.41
0.524	0.10	37.41	56.00	35.48	46.00	-18.59	-10.52
14.652	0.49	34.55	60.00	32.33	50.00	-25.45	-17.67
15.245	0.50	40.94	60.00	36.80	50.00	-19.06	-13.20
17.882	0.50	34.09	60.00	30.17	50.00	-25.91	-19.83

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)

