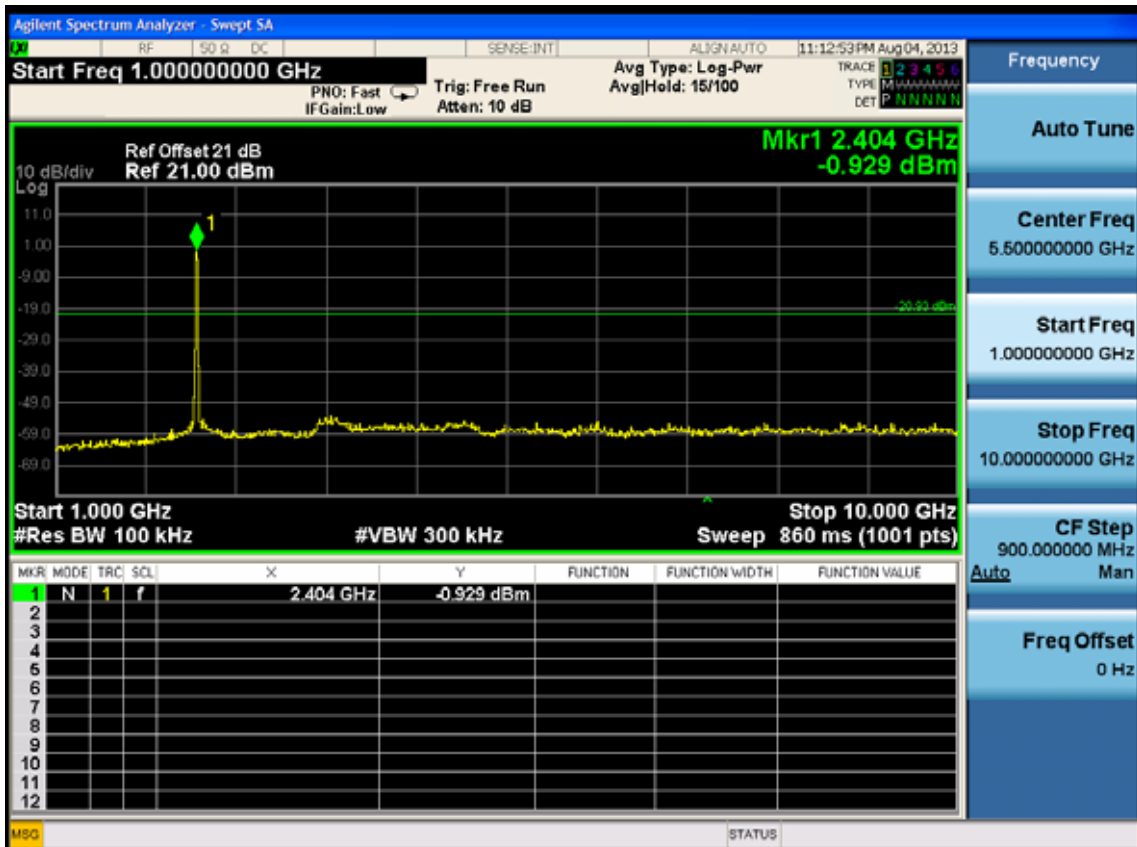
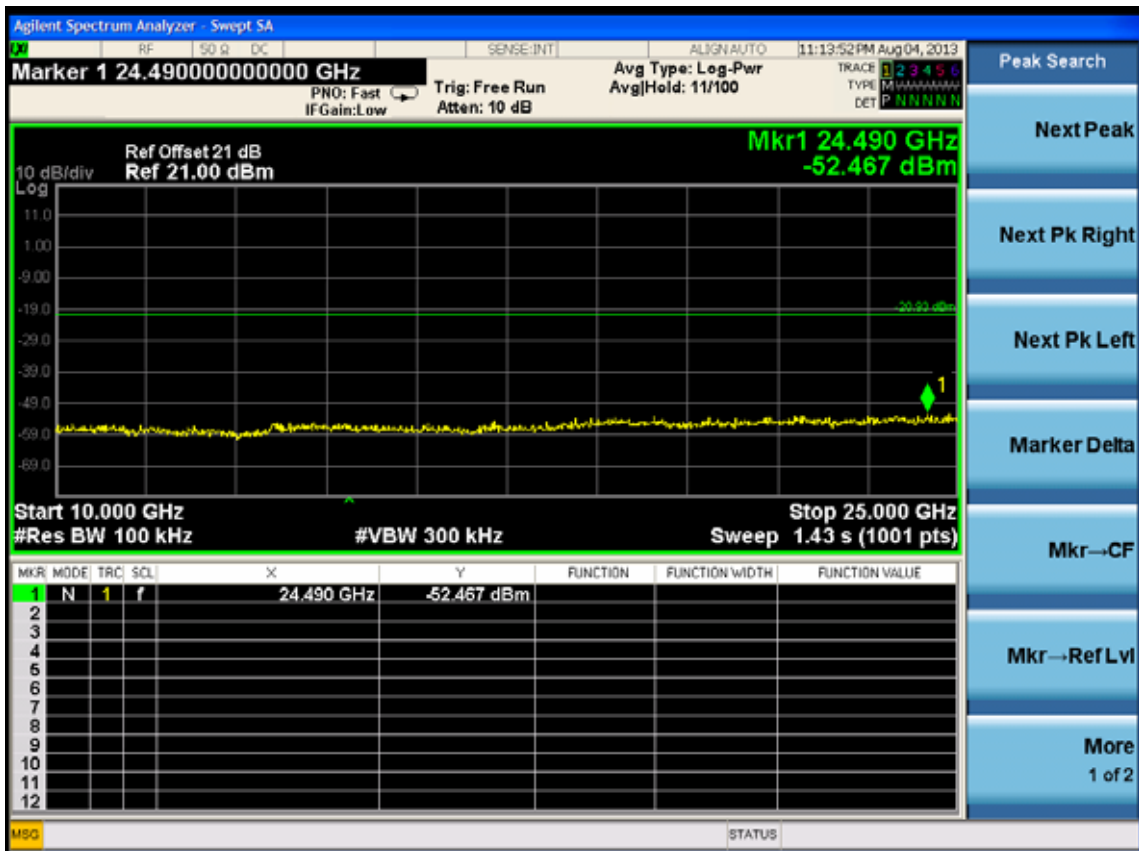
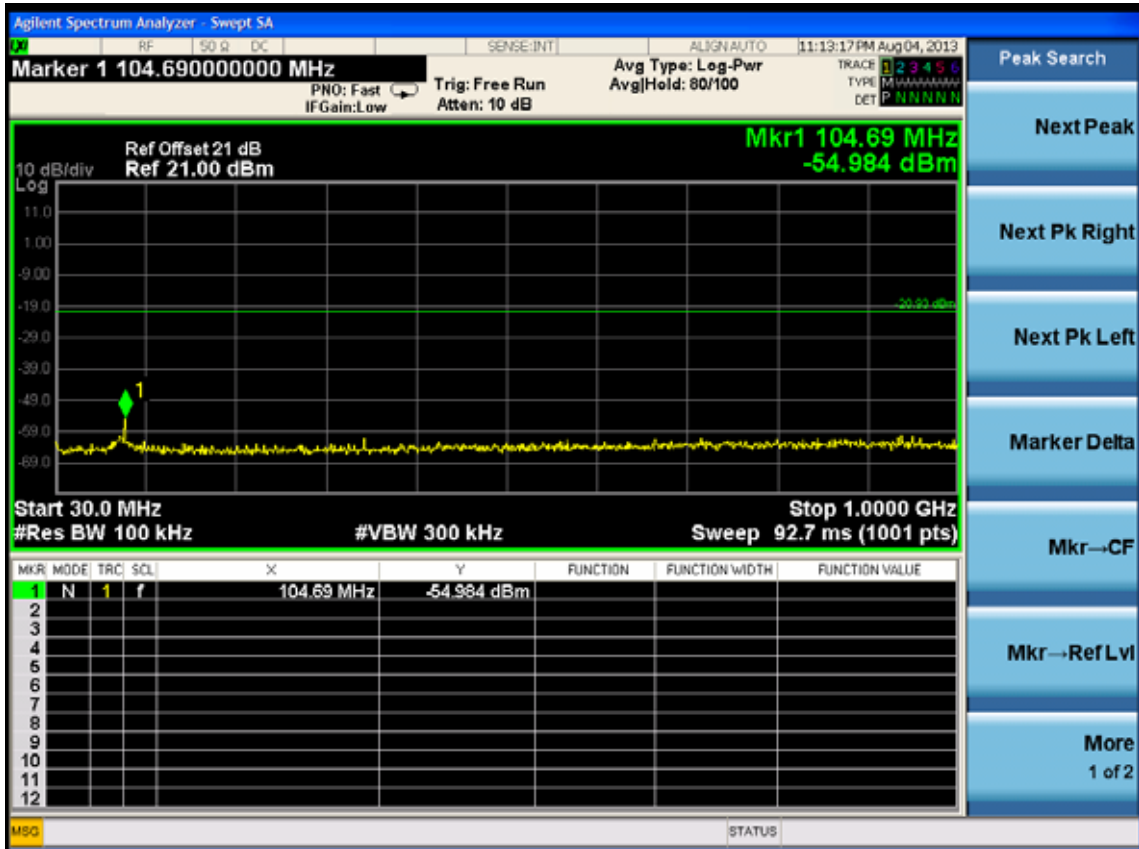




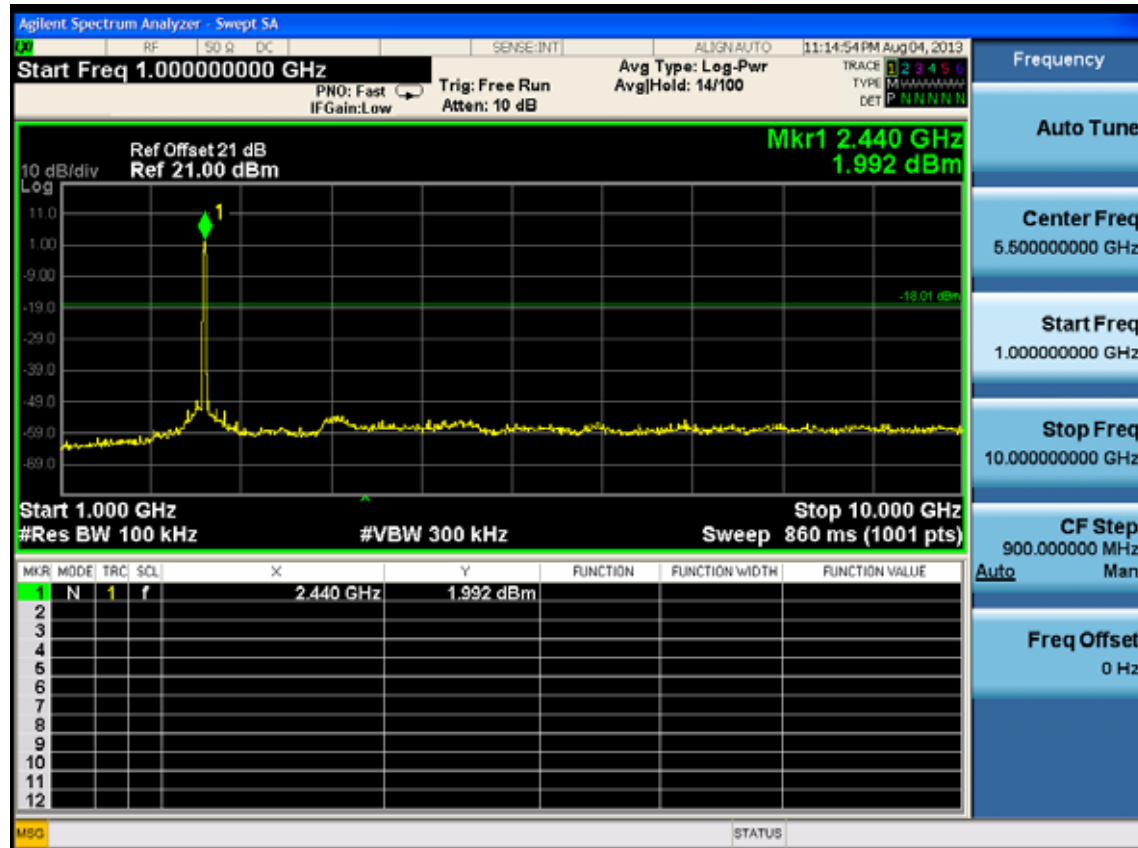
Test Mode: IEEE 802.11g TX
 Test CH1: 2412MHz

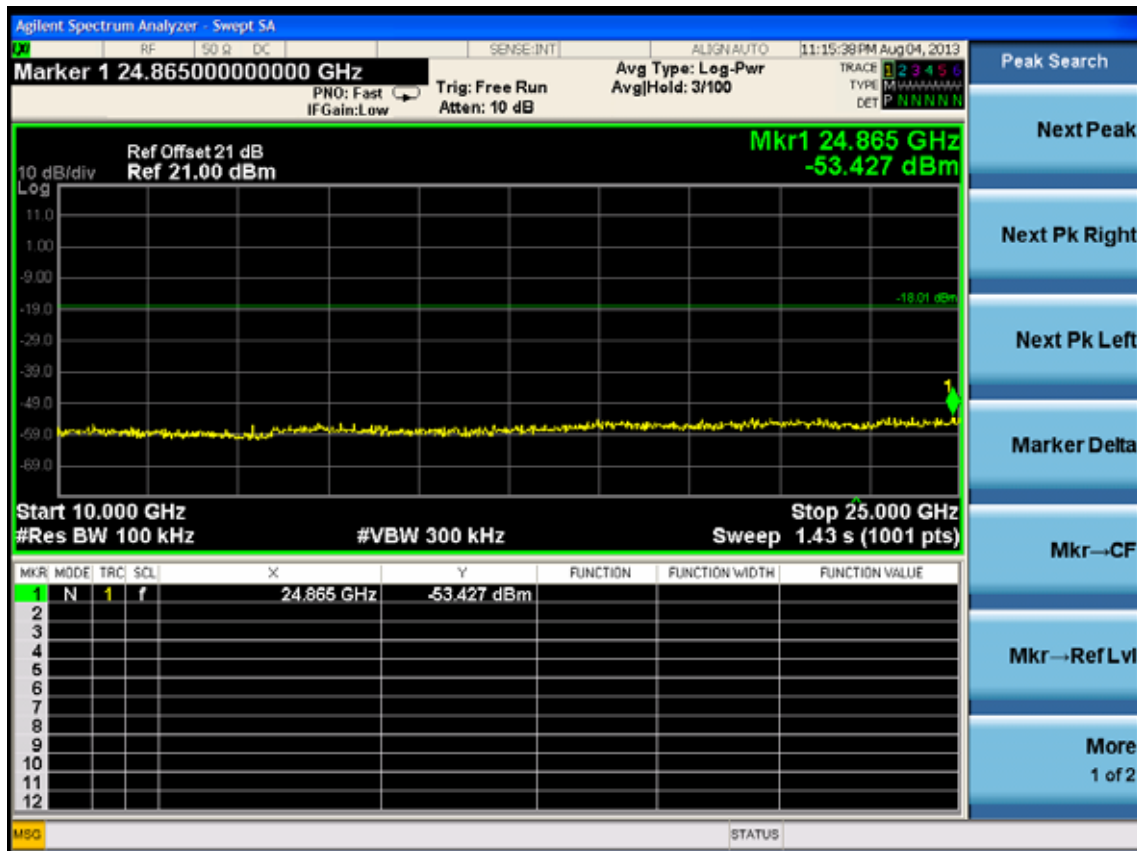
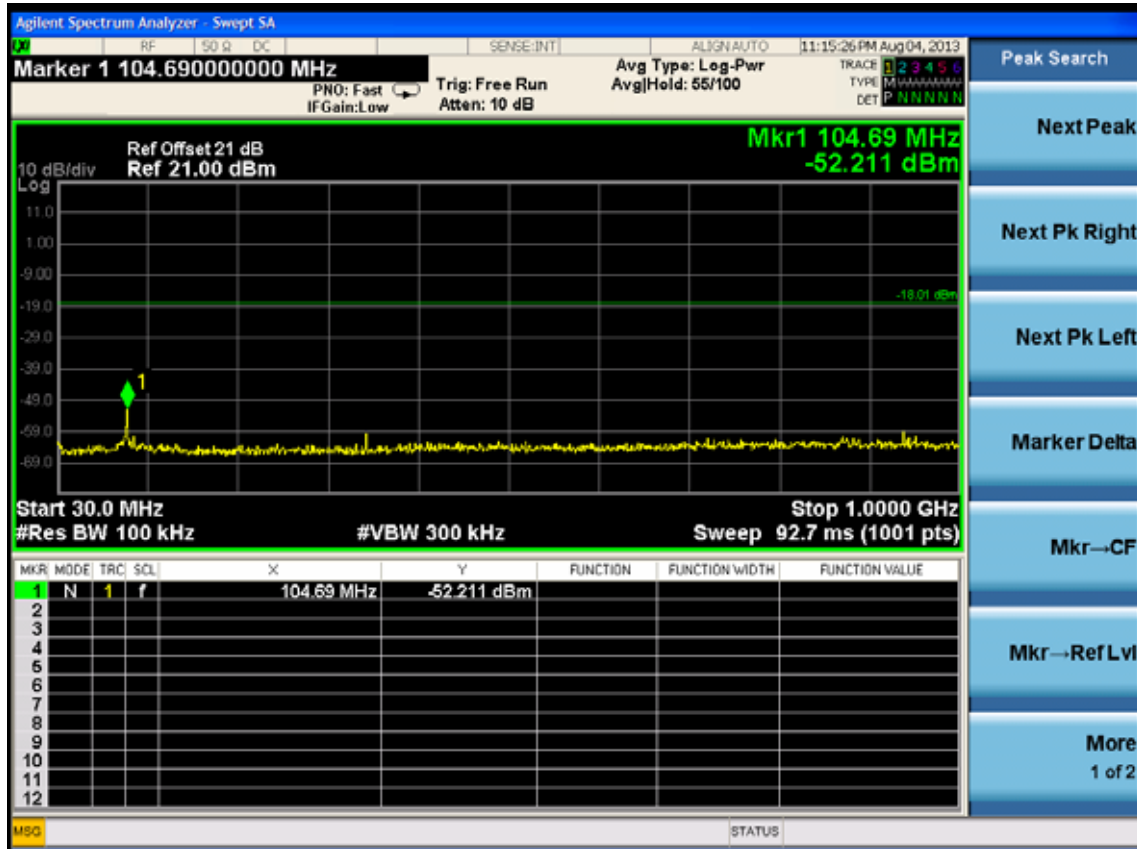




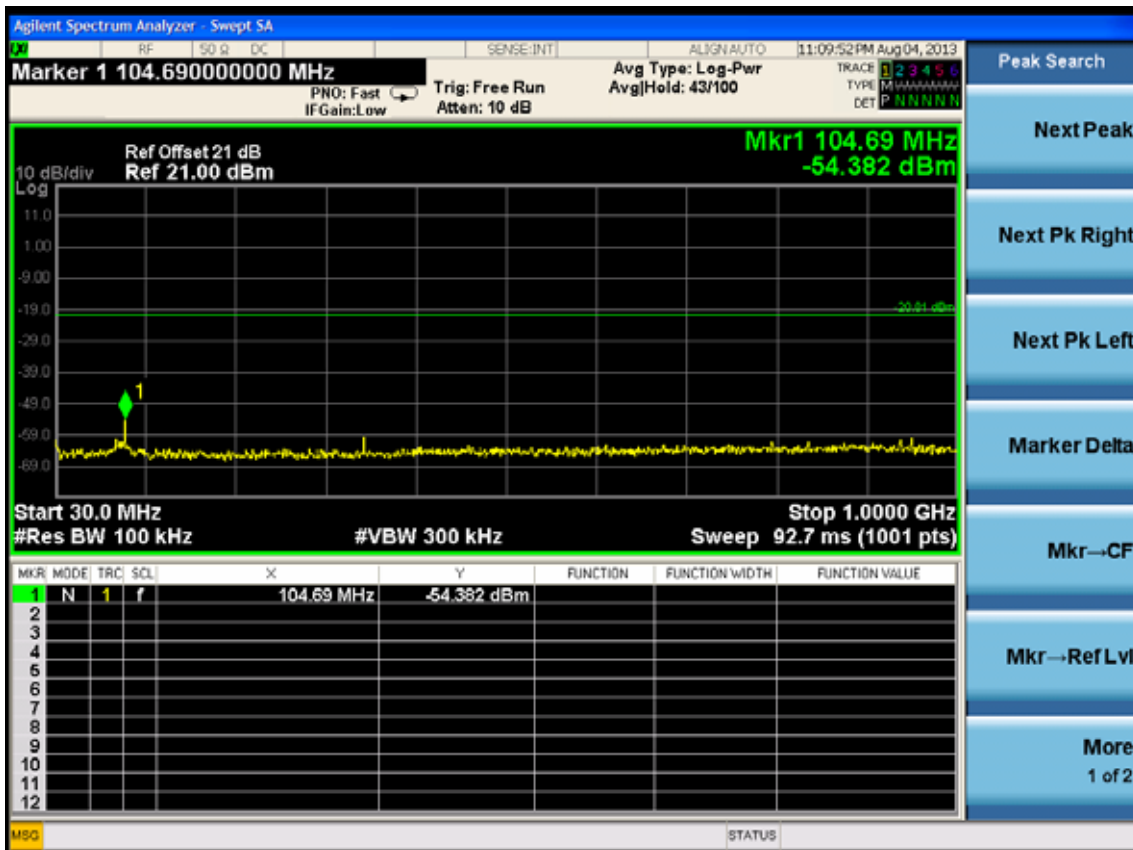
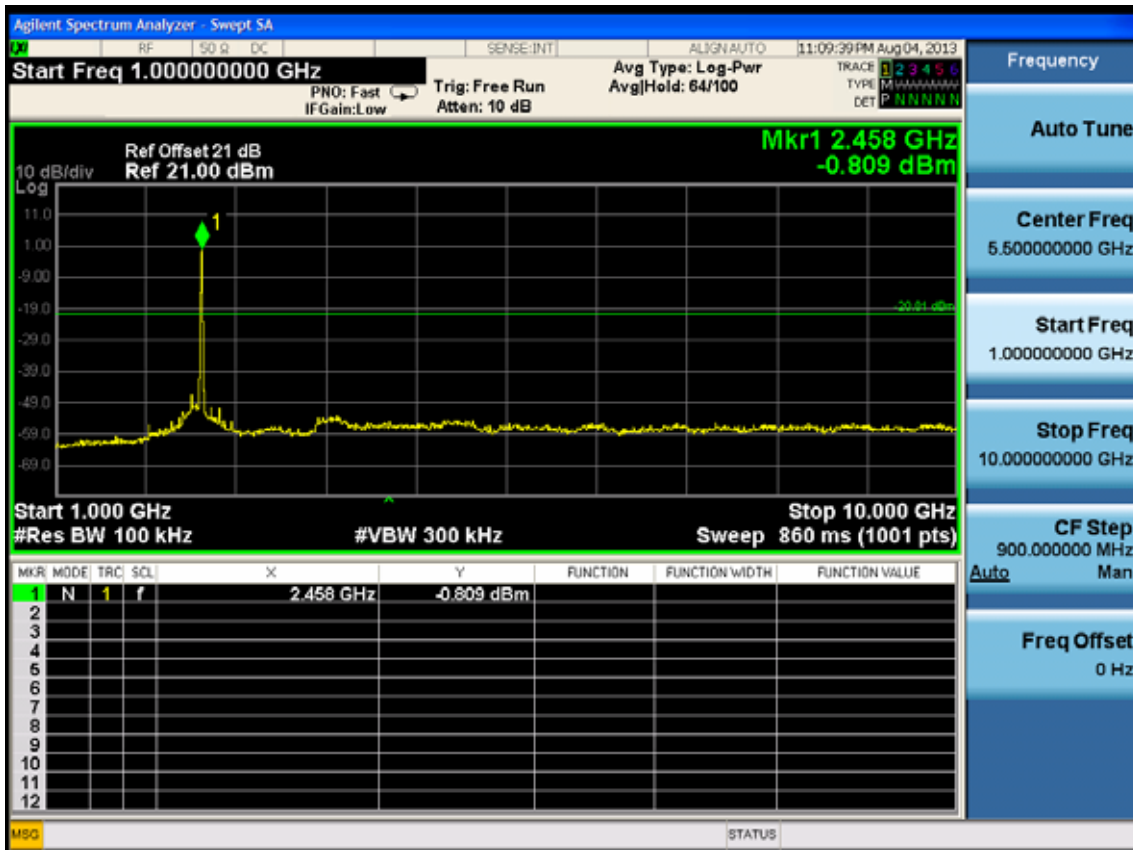


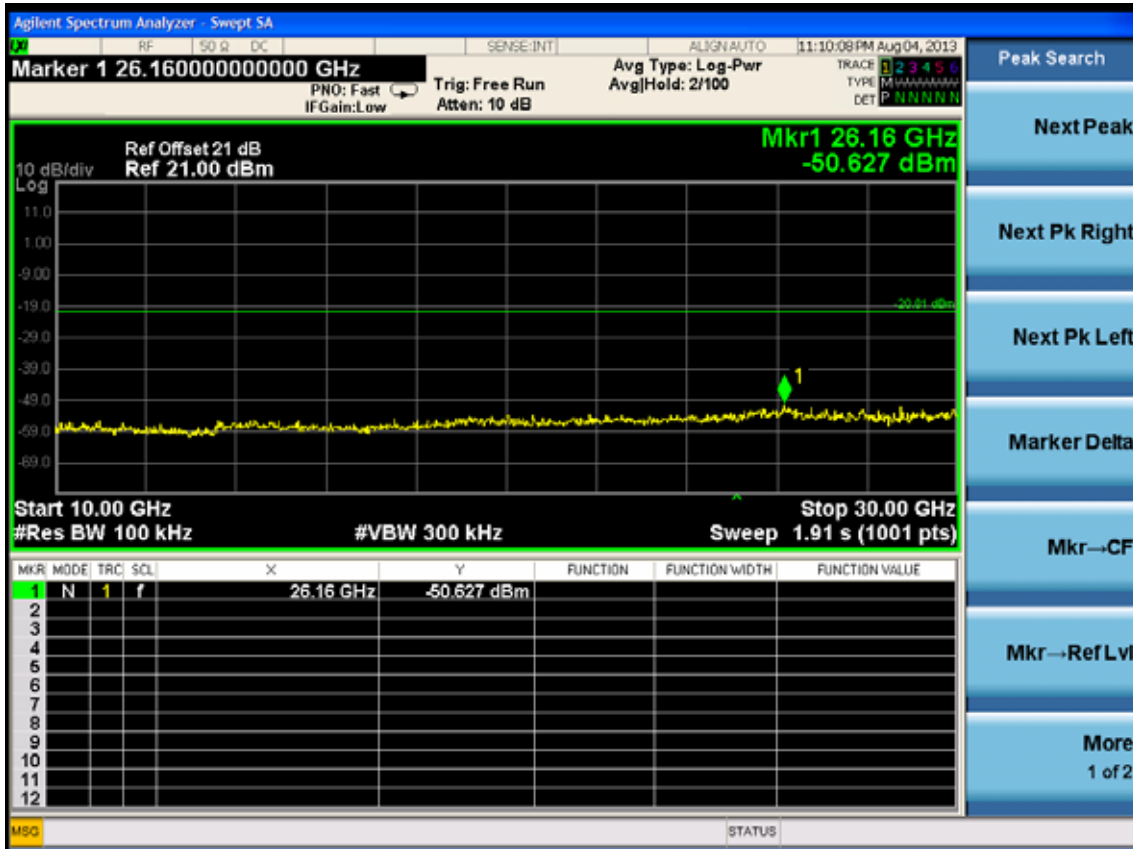
Test CH6: 2437MHz



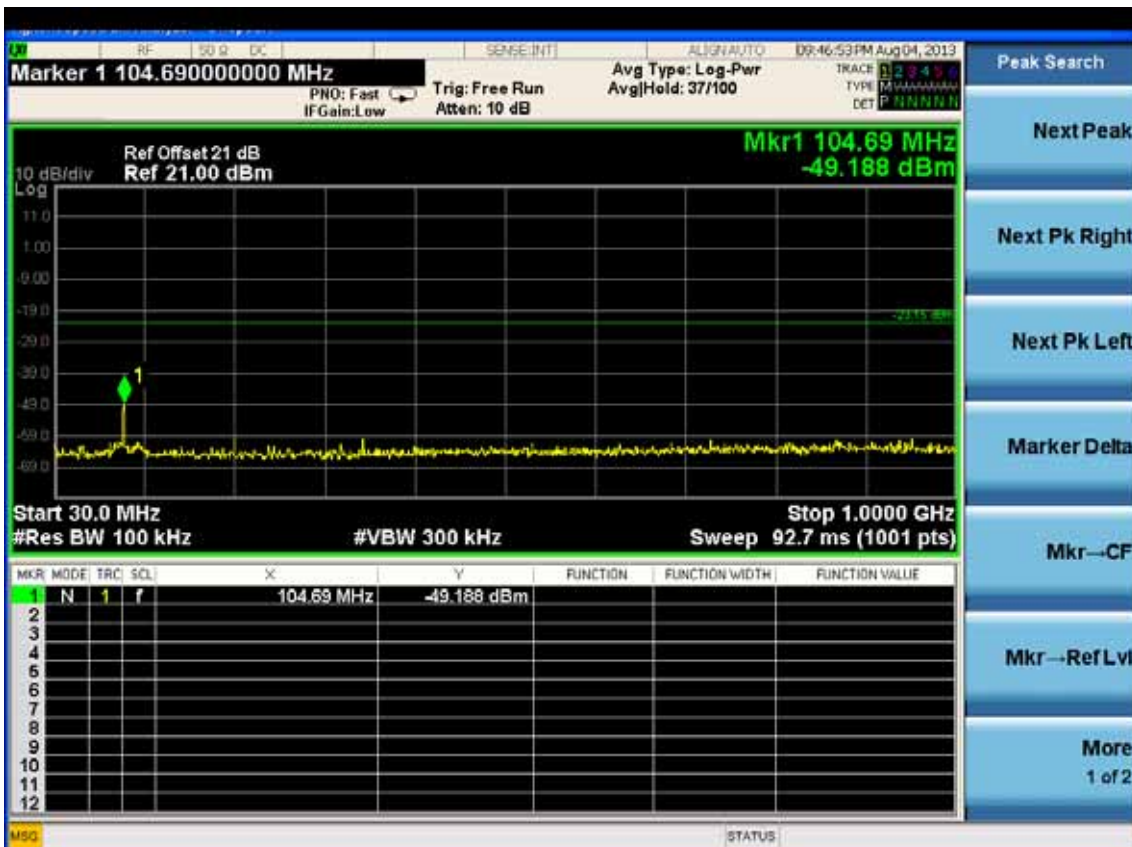
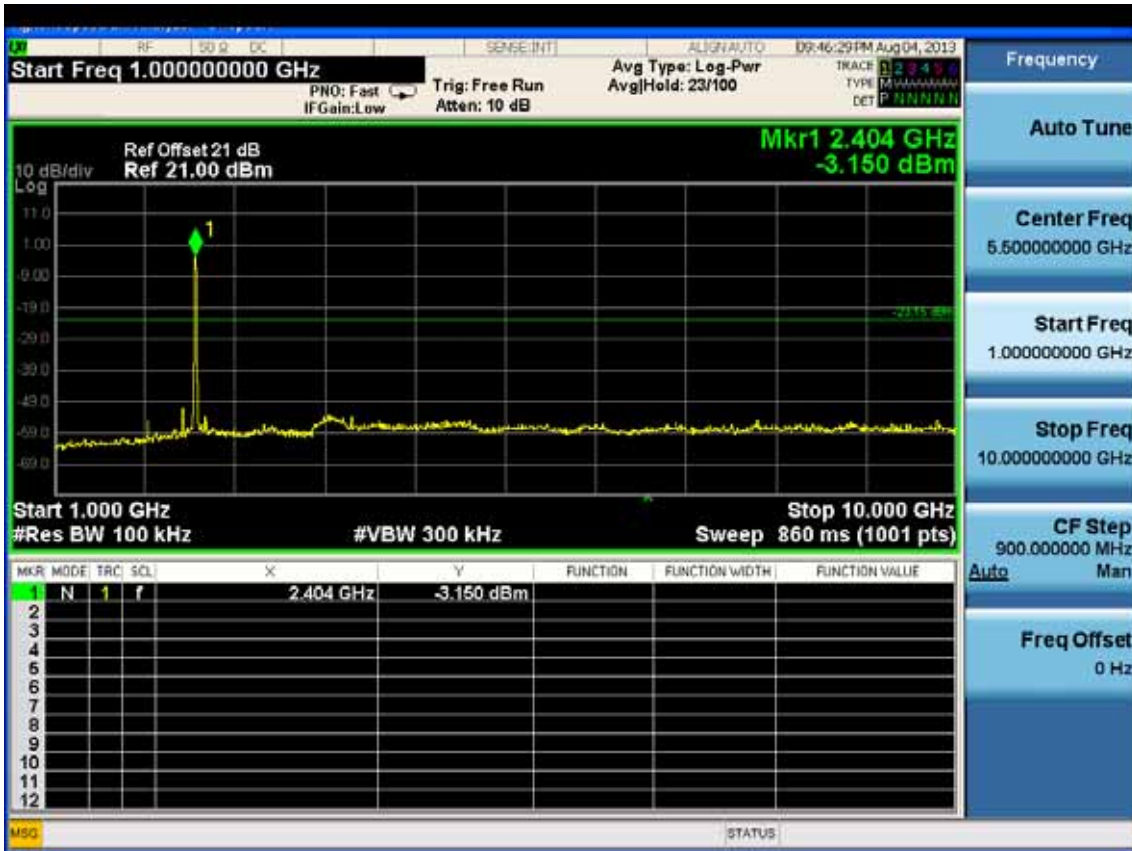


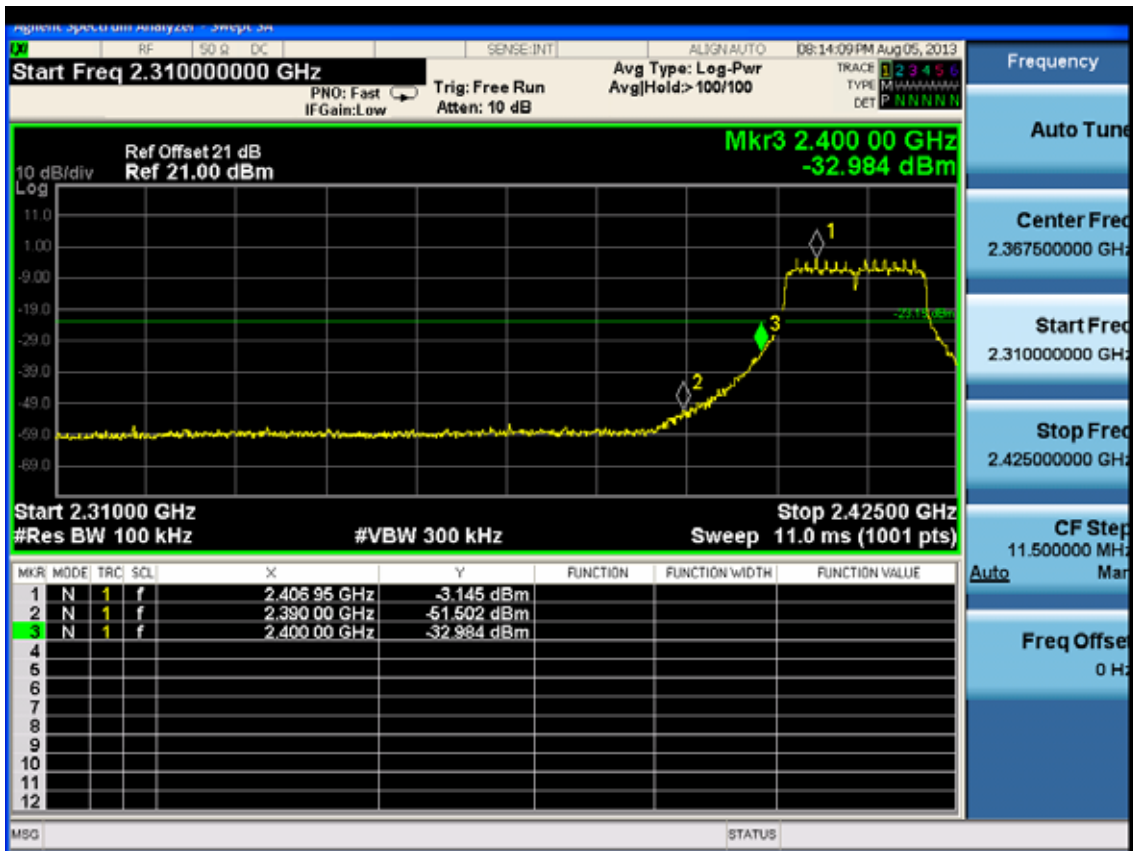
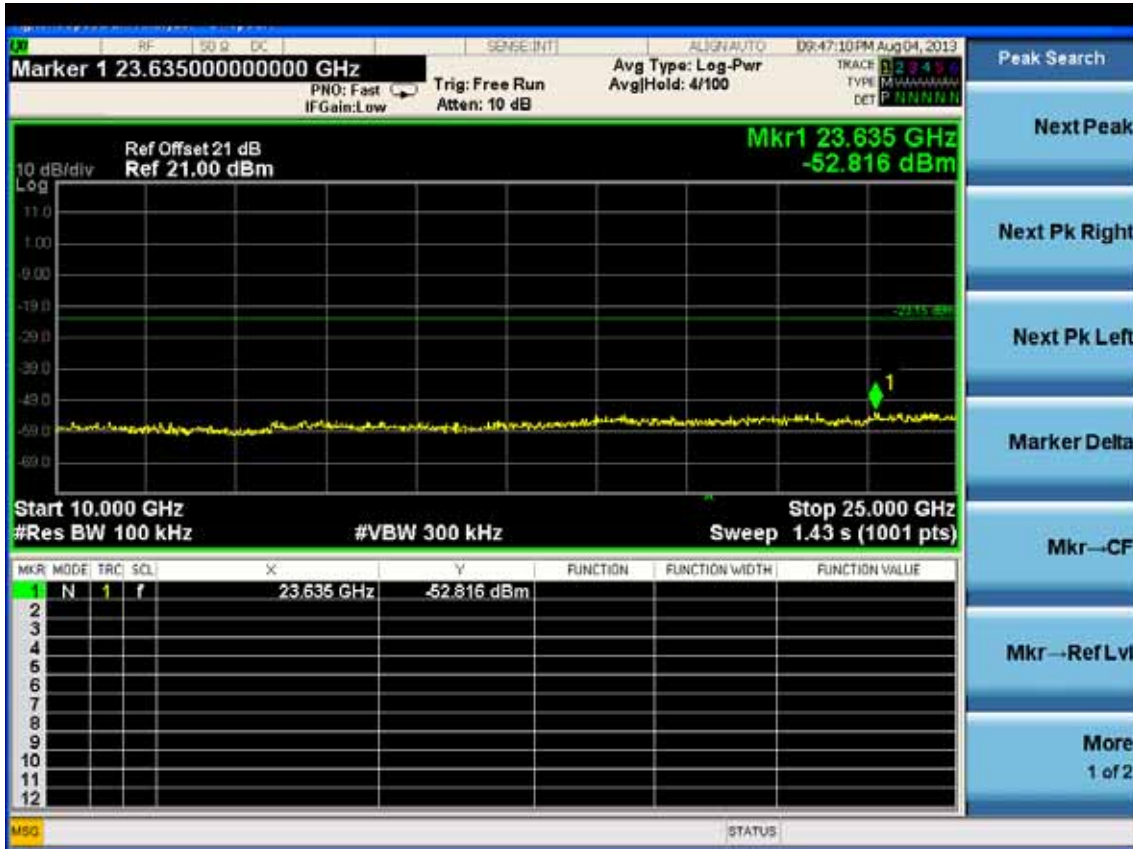
Test CH11: 2462MHz



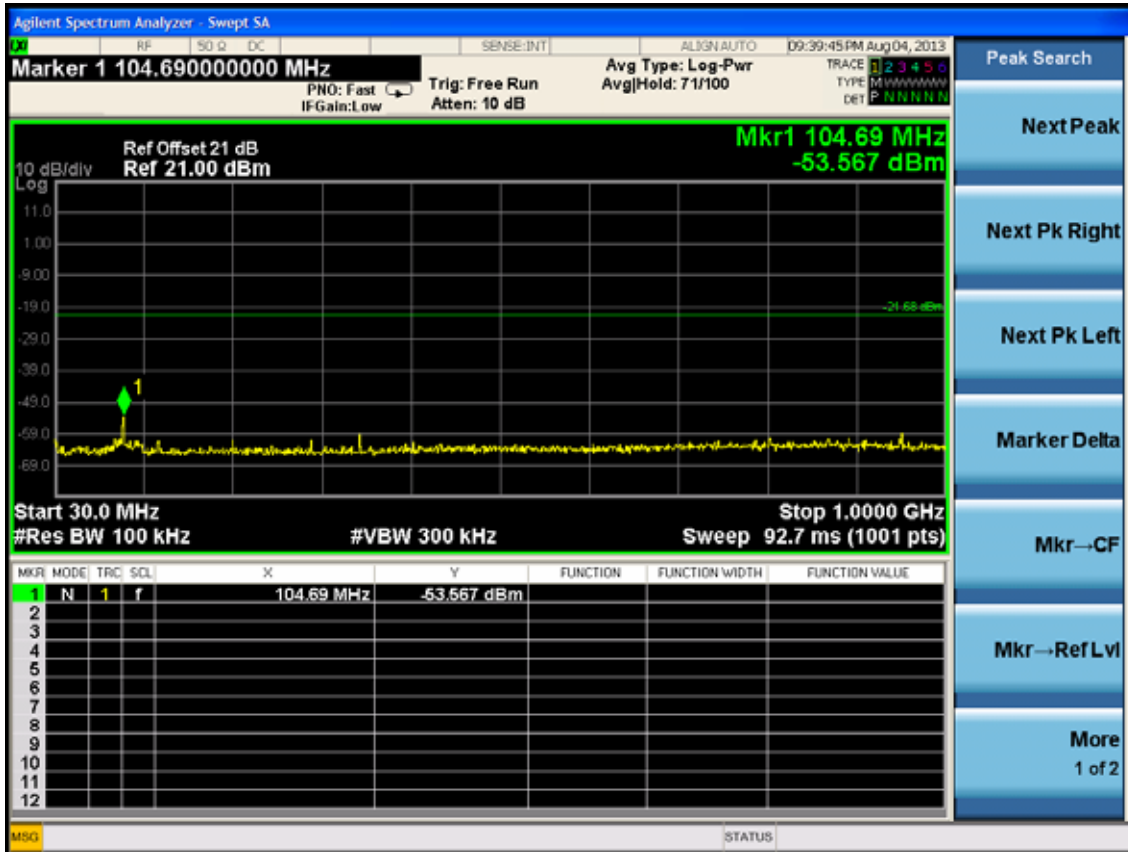
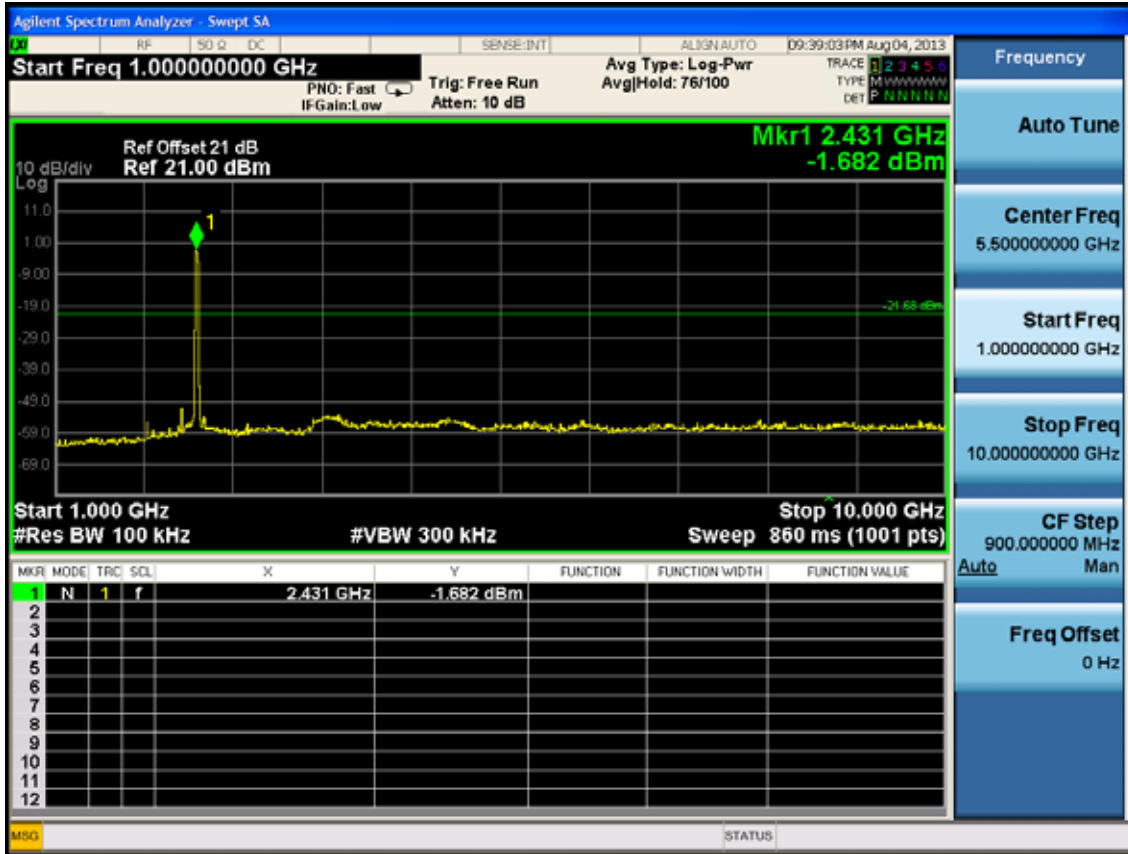


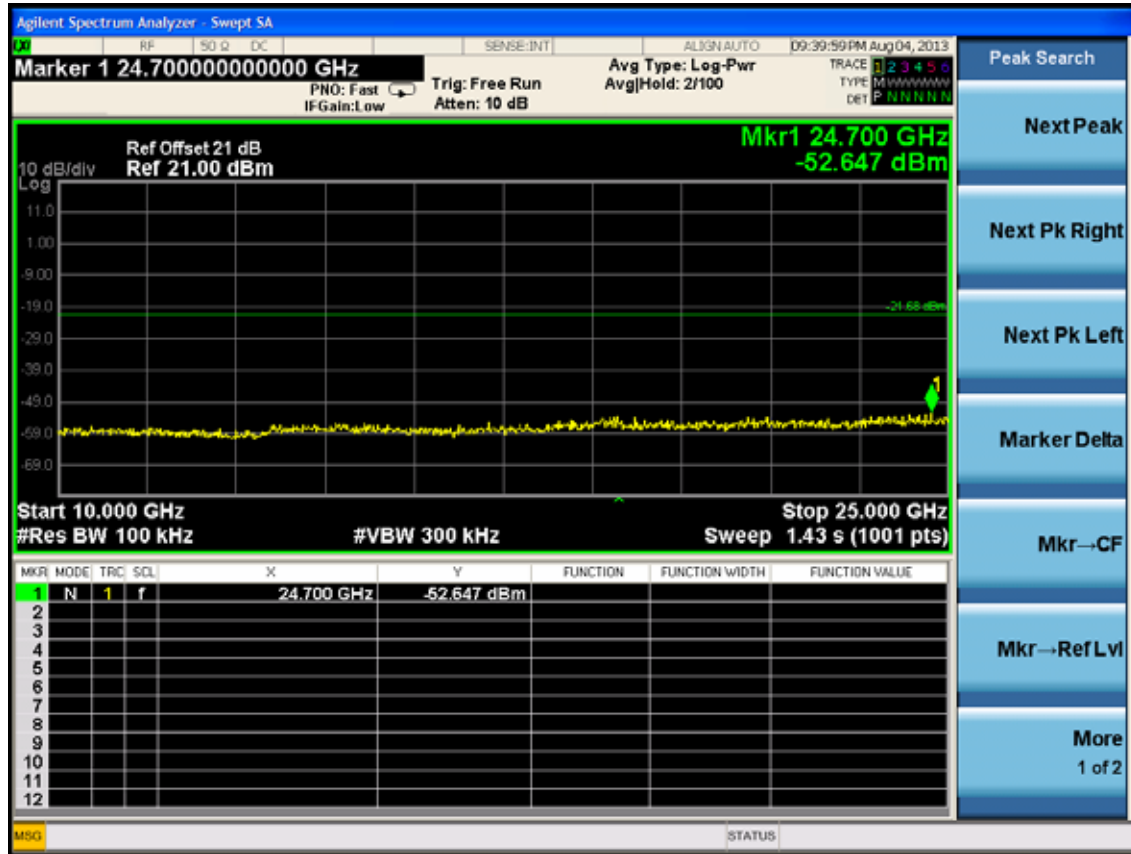
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



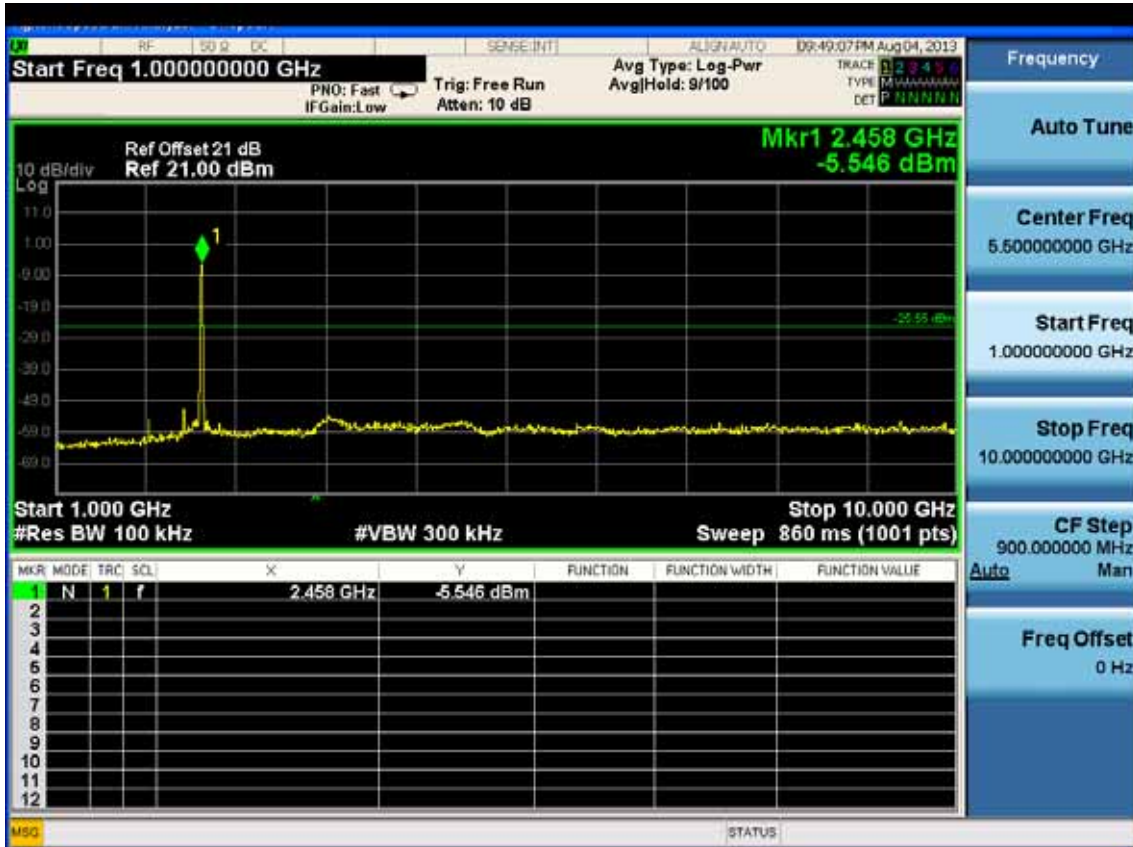


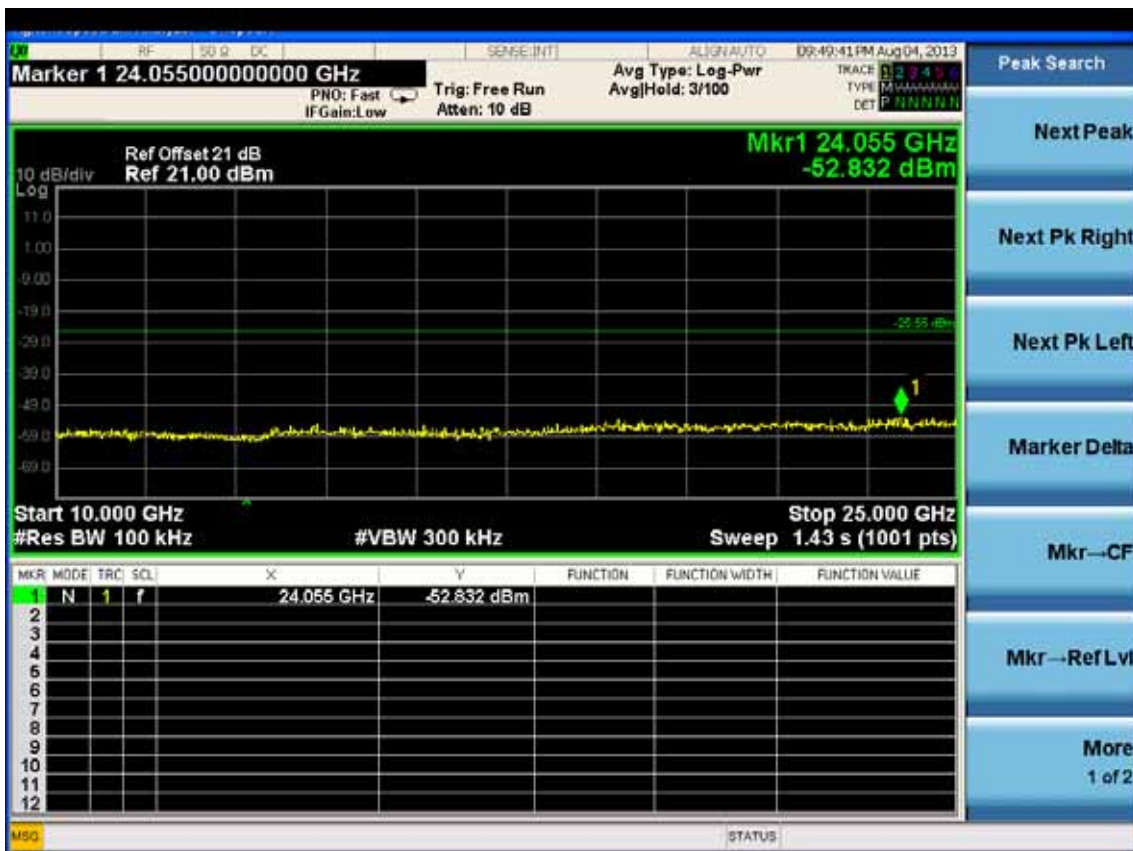
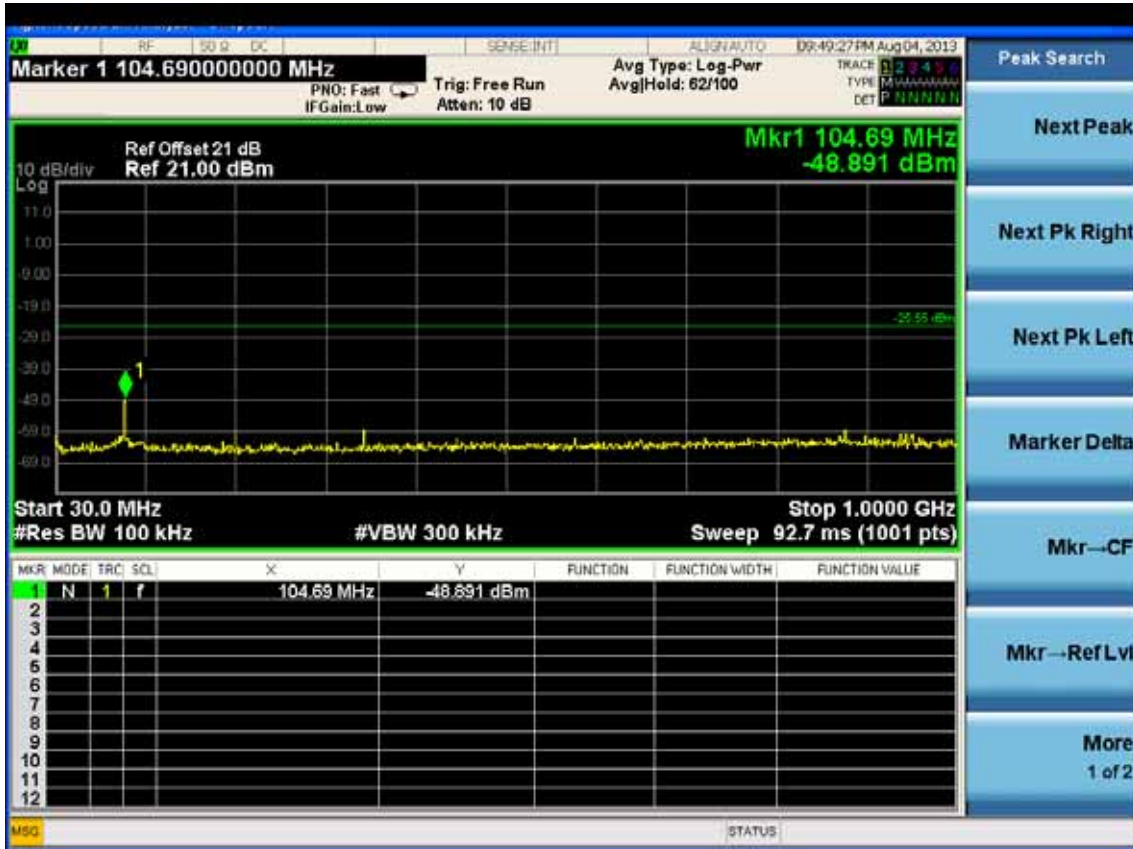
Test CH6: 2437MHz





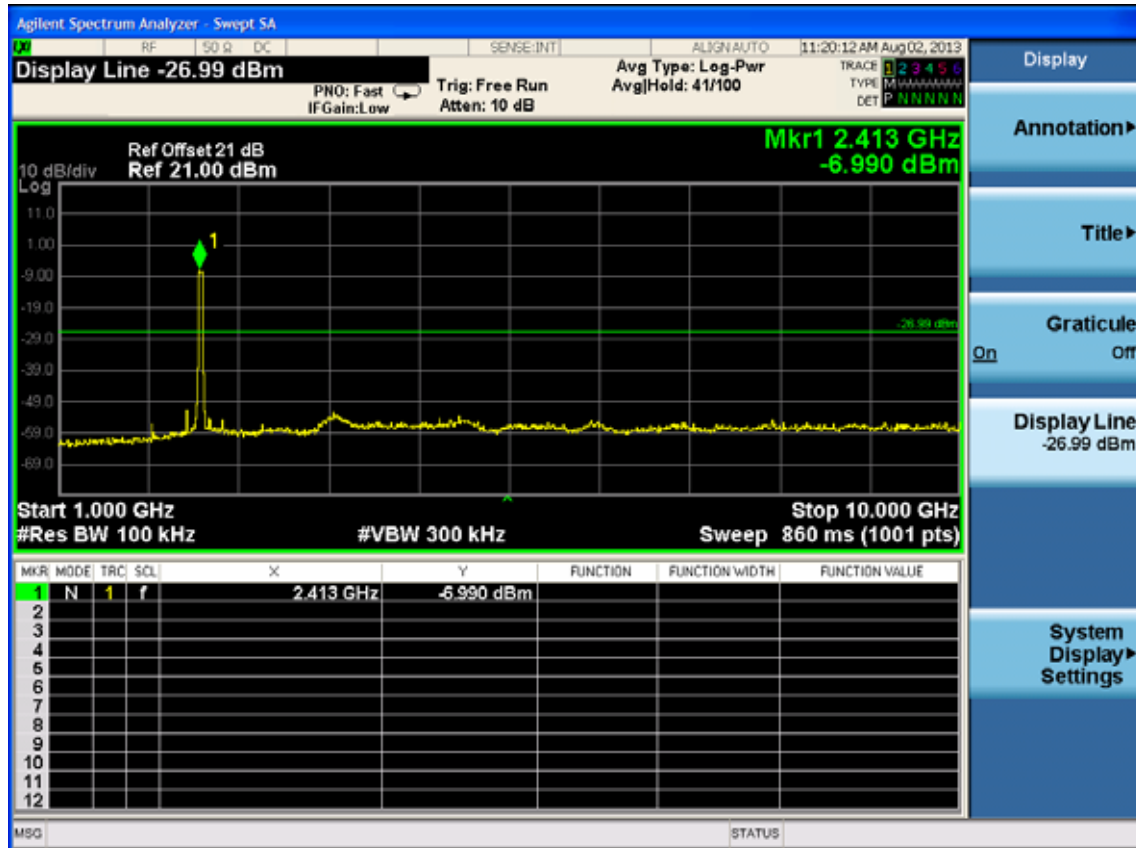
Test CH11: 2462MHz

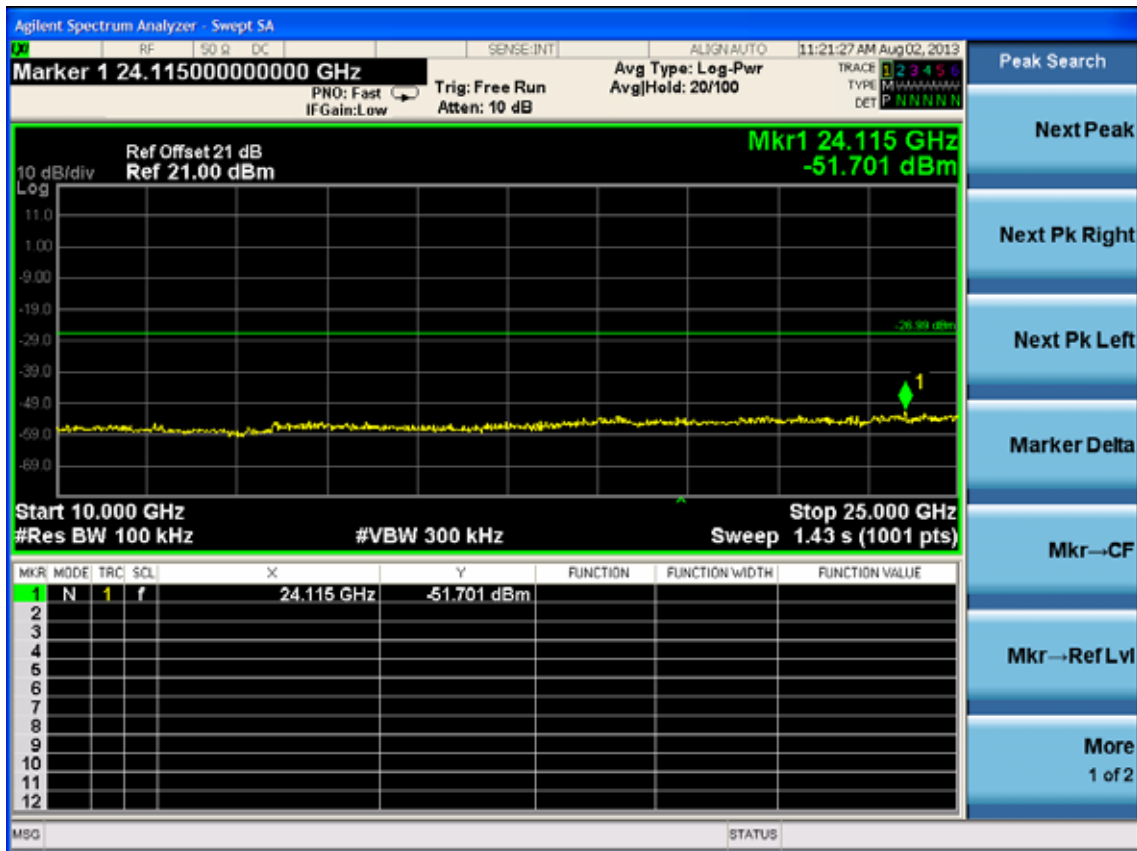
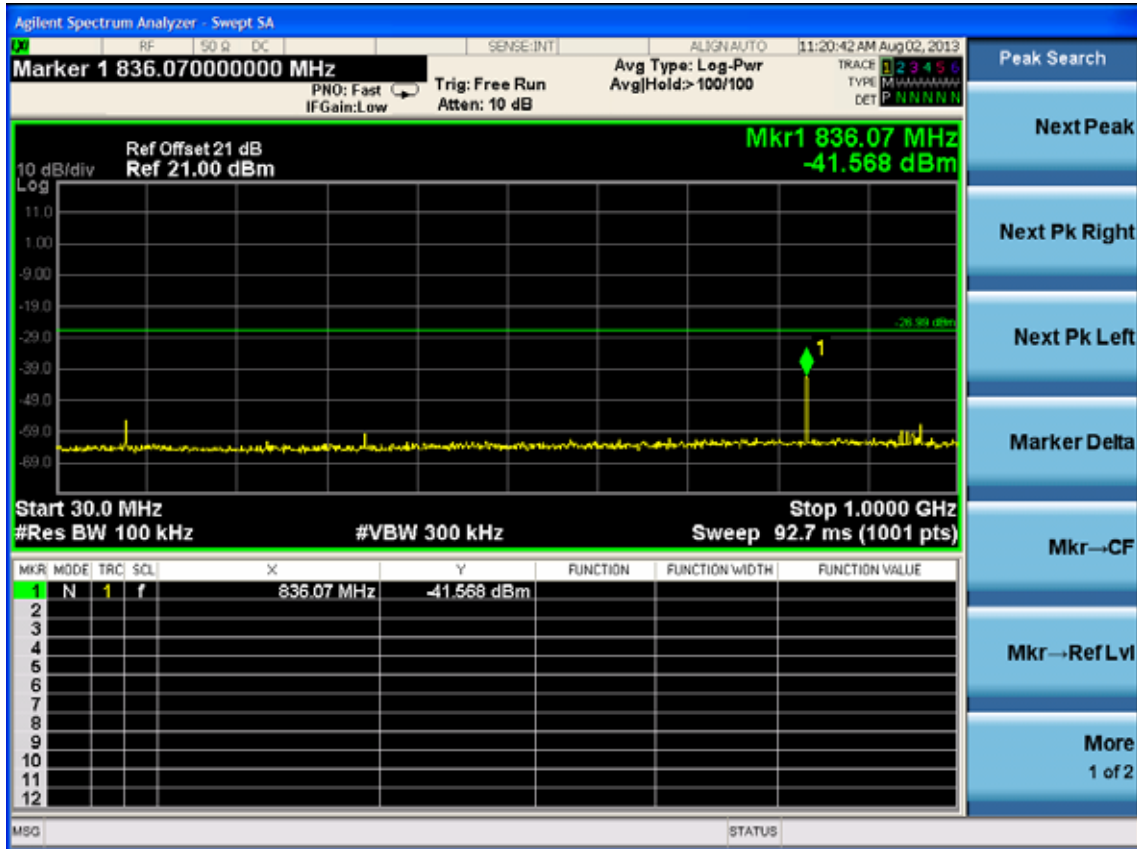






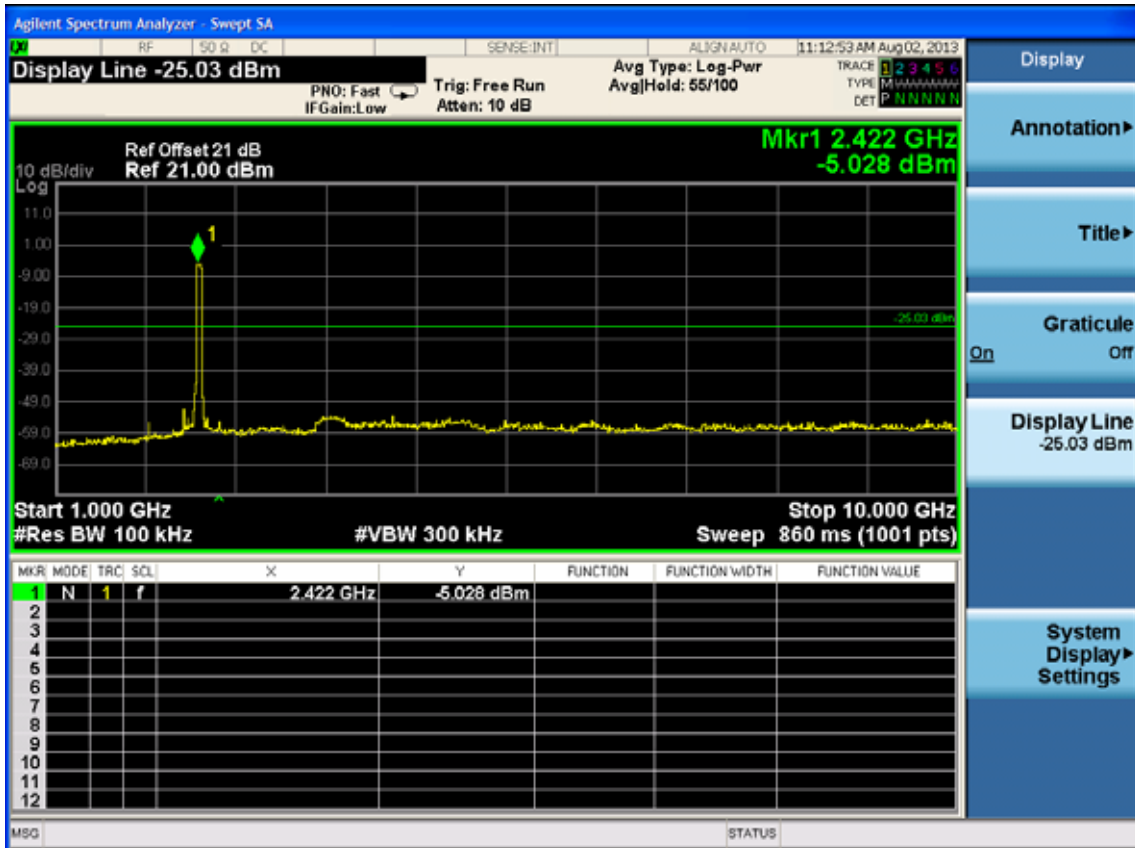
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz

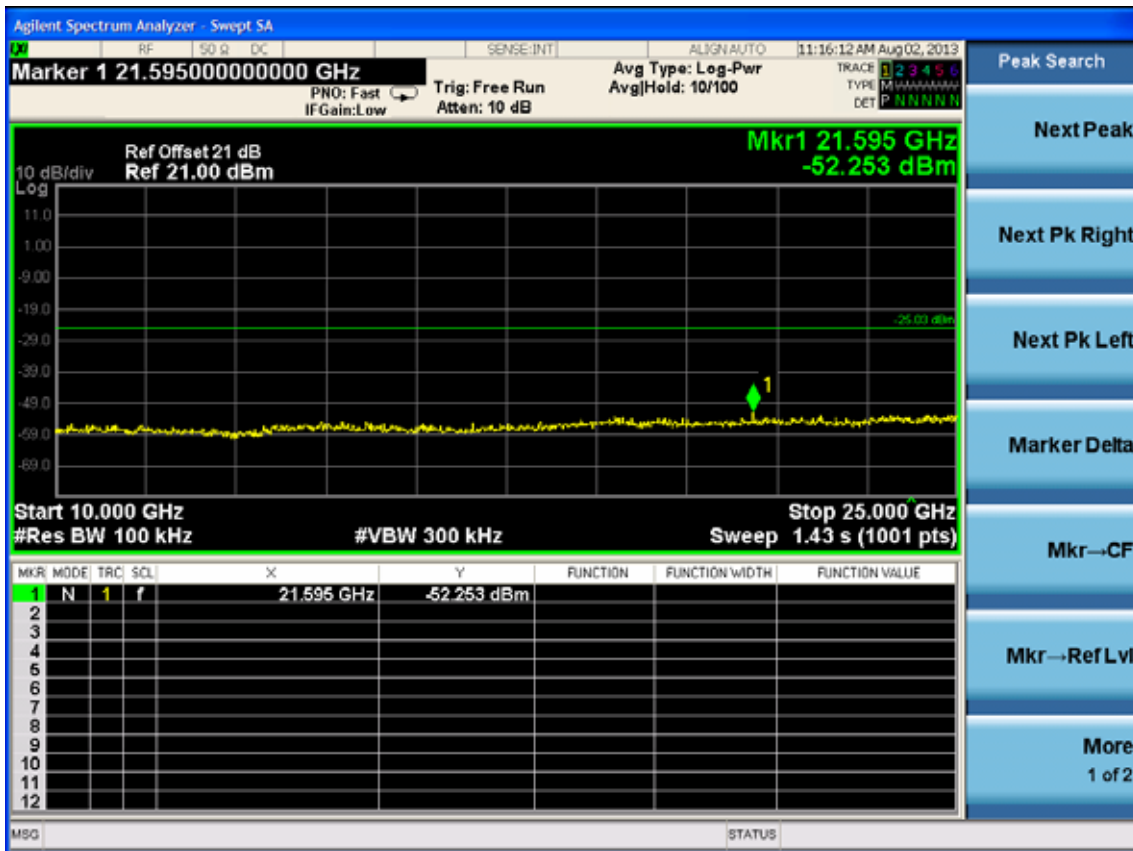
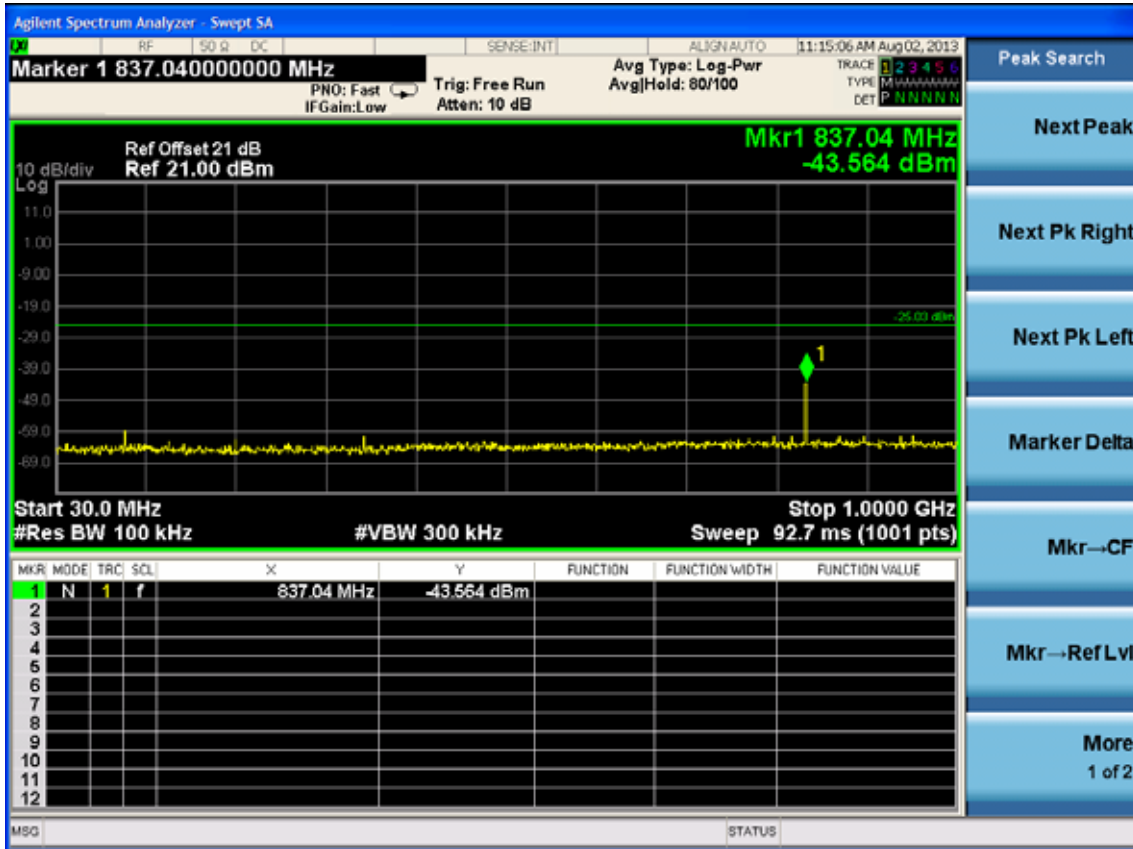




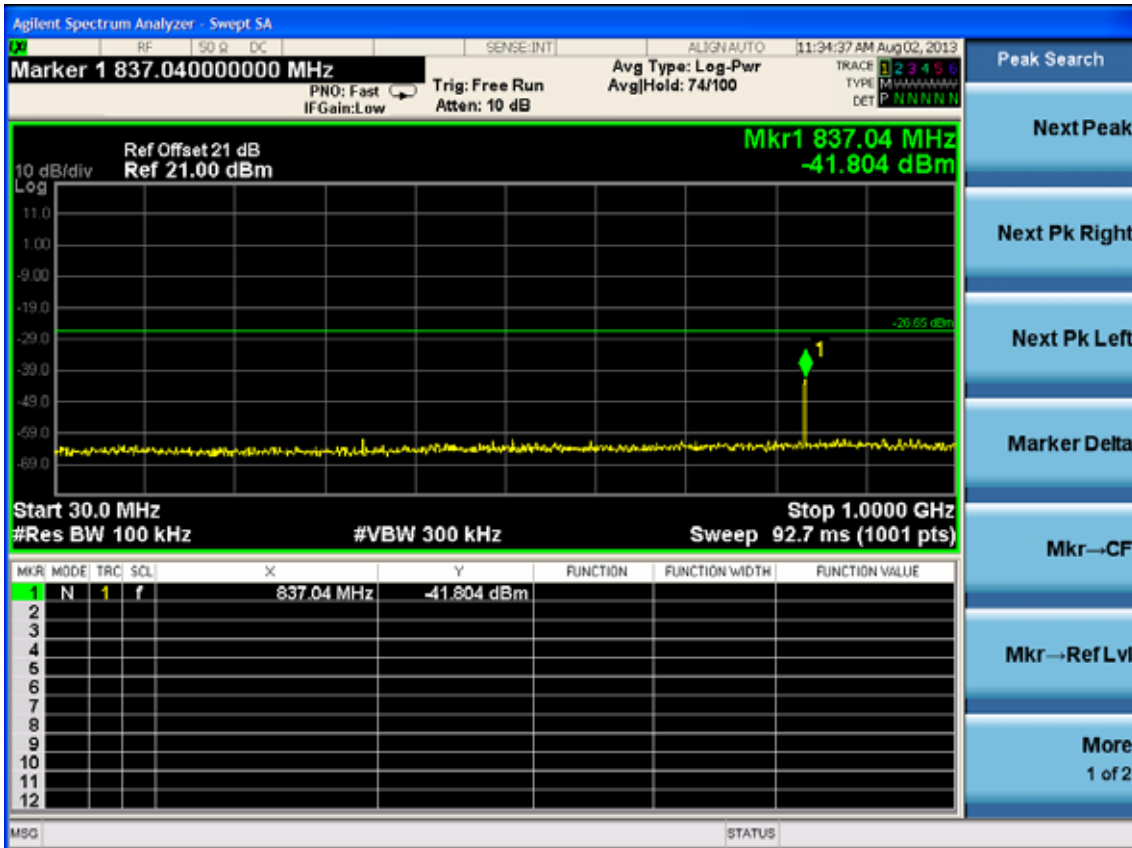
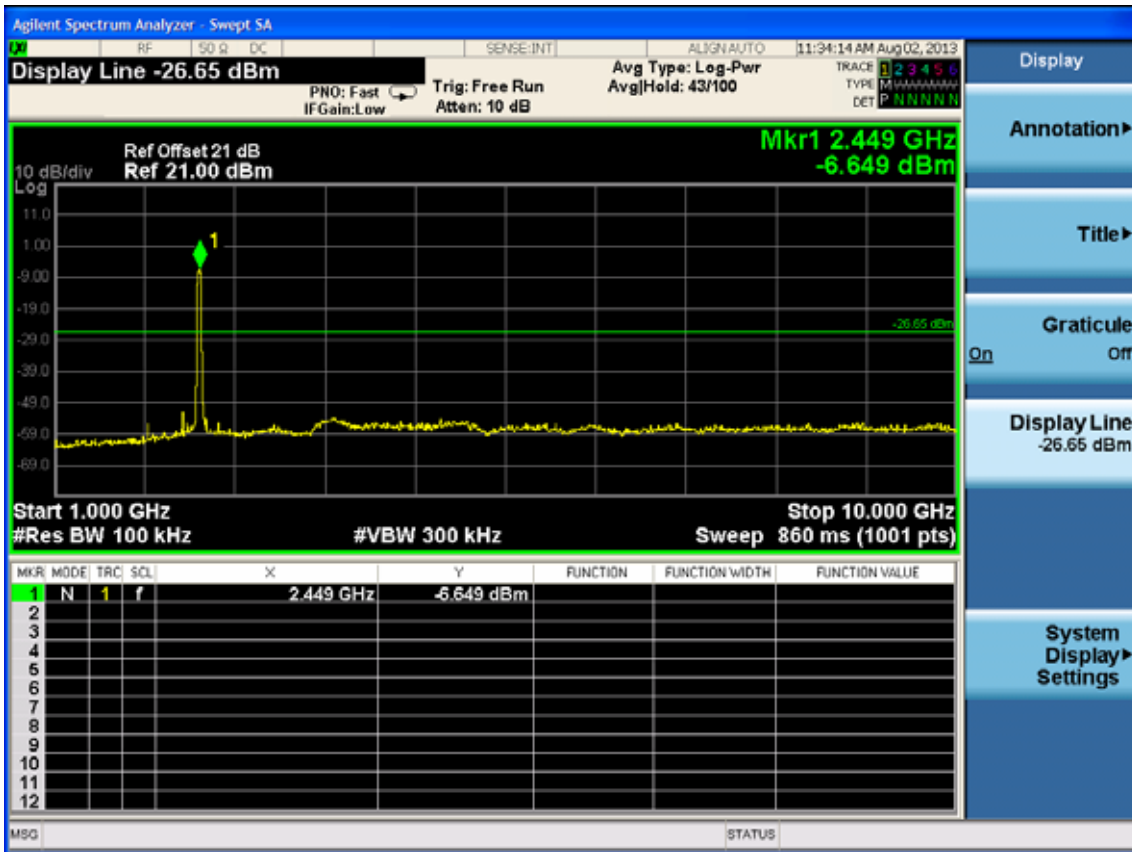


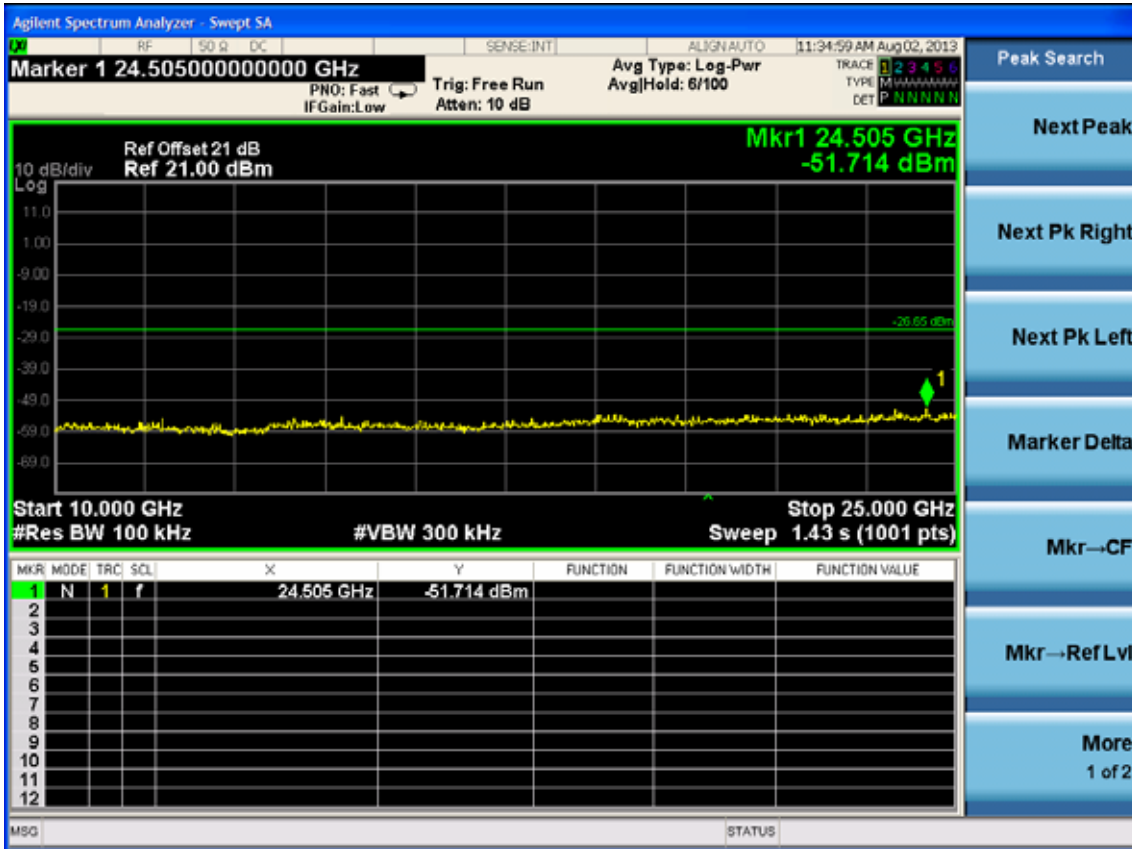
Test CH4: 2437MHz





Test CH7: 2452MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

6.2. Limit

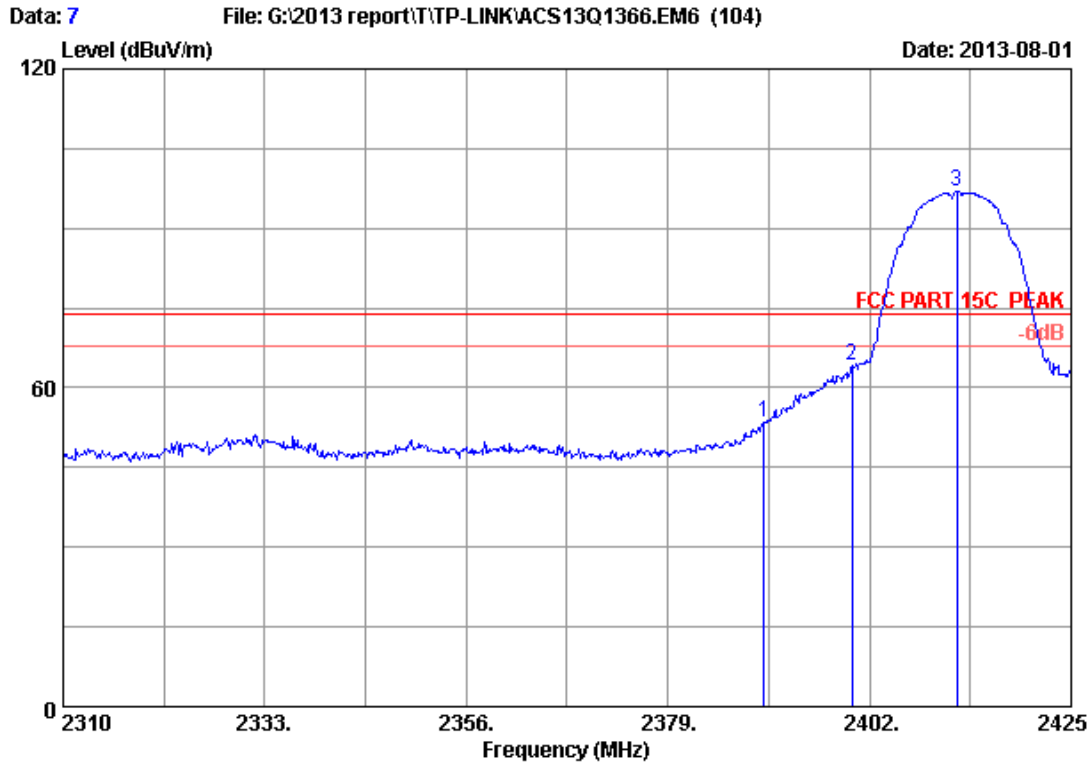
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

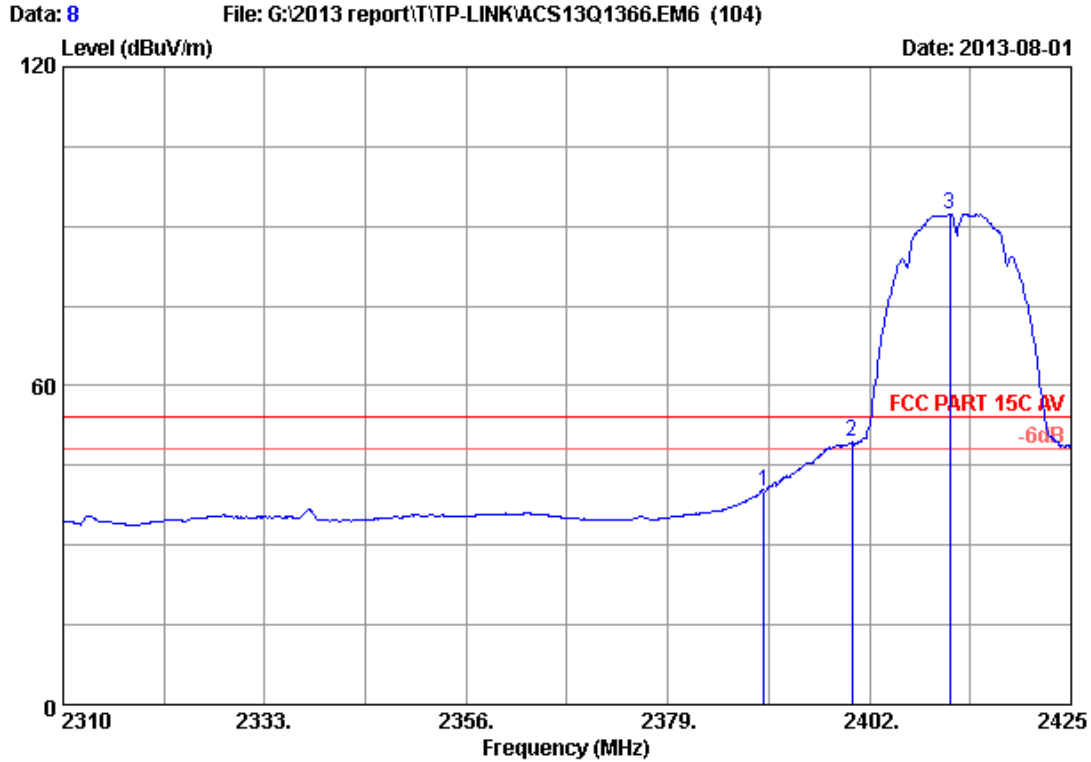


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	56.63	53.41	74.00	20.59	Peak
2	2400.000	26.76	5.80	35.70	67.15	64.01	74.00	9.99	Peak
3	2412.005	26.84	5.81	35.70	100.09	97.04	74.00	-23.04	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

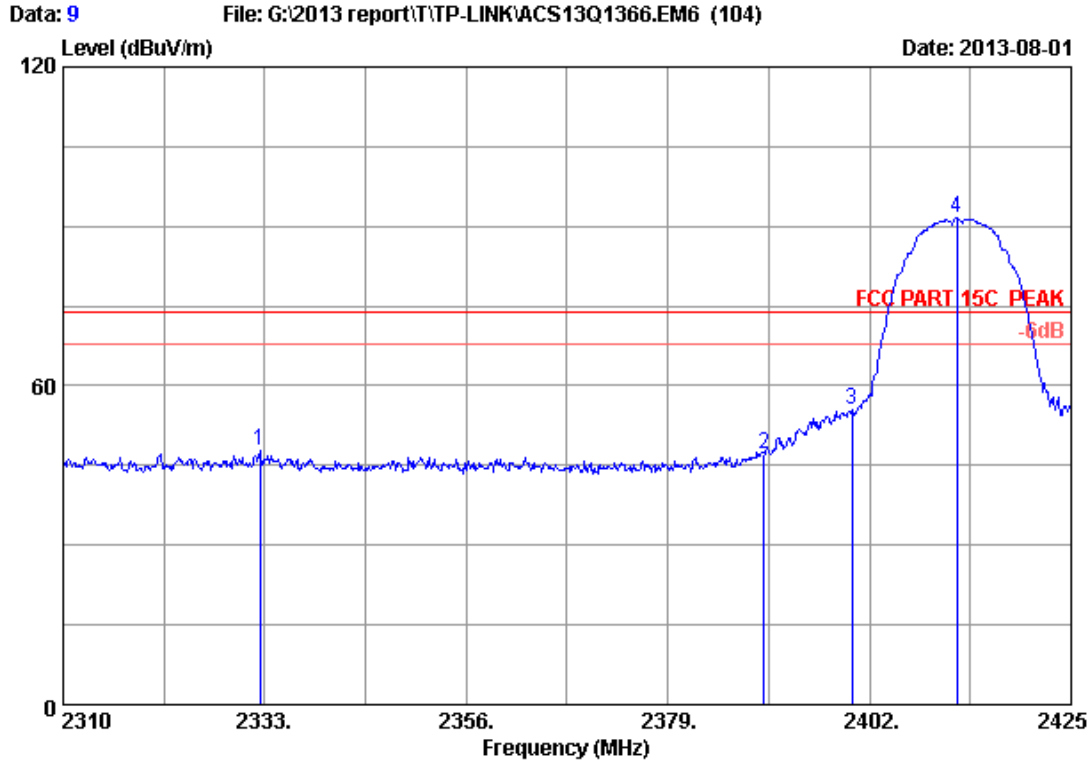


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	43.47	40.25	54.00	13.75	Average
2	2400.000	26.76	5.80	35.70	52.50	49.36	54.00	4.64	Average
3	2411.200	26.83	5.81	35.70	95.48	92.42	54.00	-38.42	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

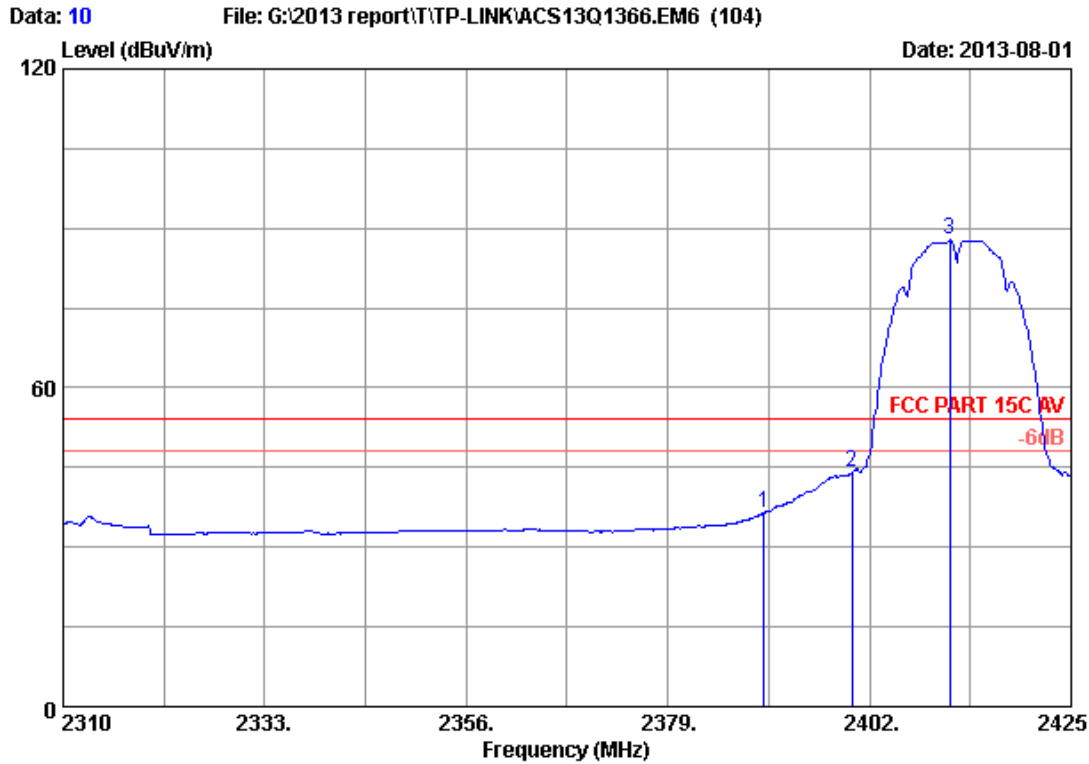


Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2332.425	26.33	5.70	35.70	51.47	47.80	74.00	26.20	Peak
2	2390.000	26.70	5.78	35.70	50.45	47.23	74.00	26.77	Peak
3	2400.000	26.76	5.80	35.70	58.66	55.52	74.00	18.48	Peak
4	2412.005	26.84	5.81	35.70	94.64	91.59	74.00	-17.59	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

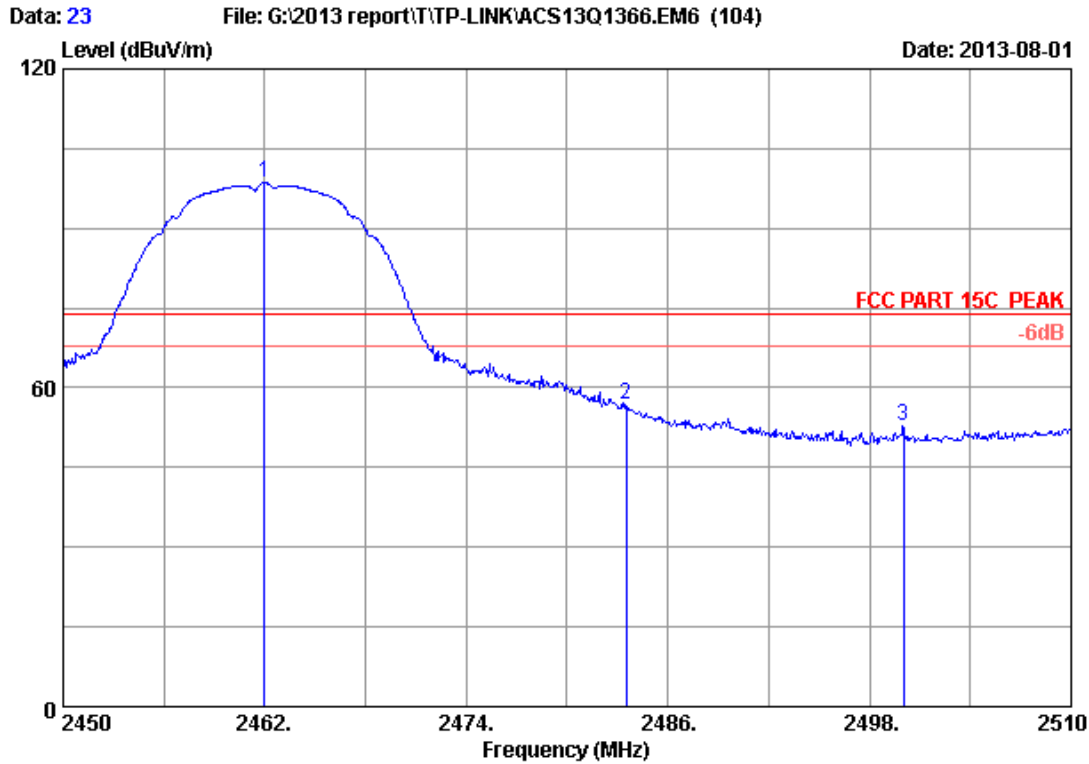


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	39.80	36.58	54.00	17.42	Average
2	2400.000	26.76	5.80	35.70	47.41	44.27	54.00	9.73	Average
3	2411.200	26.83	5.81	35.70	90.81	87.75	54.00	-33.75	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

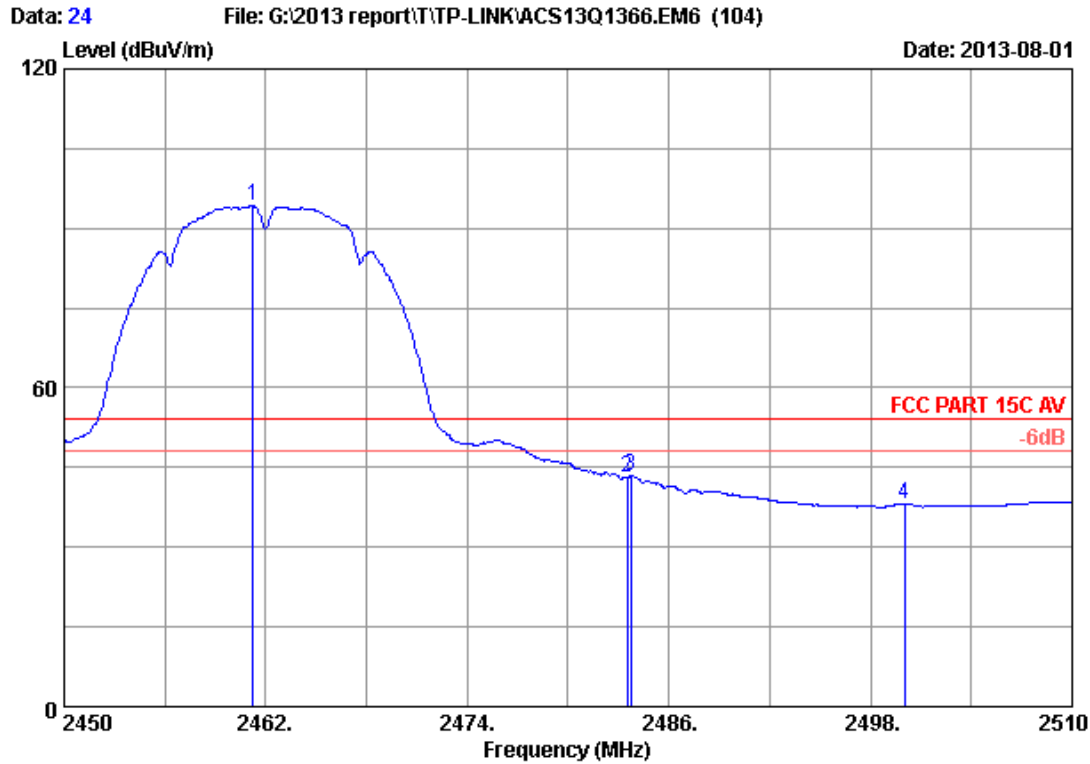


Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.16	5.89	35.70	101.28	98.63	74.00	-24.63	Peak
2	2483.500	27.29	5.92	35.70	59.35	56.86	74.00	17.14	Peak
3	2500.000	27.40	5.94	35.70	55.19	52.83	74.00	21.17	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

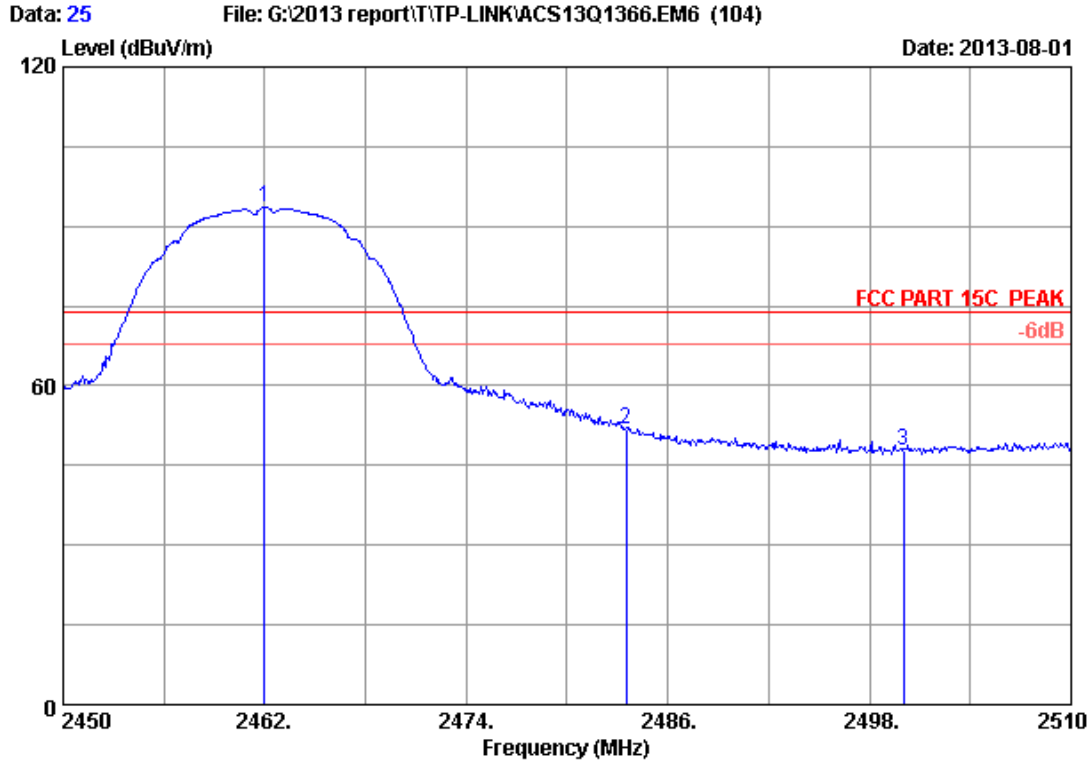


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	27.15	5.89	35.70	96.87	94.21	54.00	-40.21	Average
2	2483.500	27.29	5.92	35.70	45.53	43.04	54.00	10.96	Average
3	2483.720	27.30	5.92	35.70	45.87	43.39	54.00	10.61	Average
4	2500.000	27.40	5.94	35.70	40.58	38.22	54.00	15.78	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

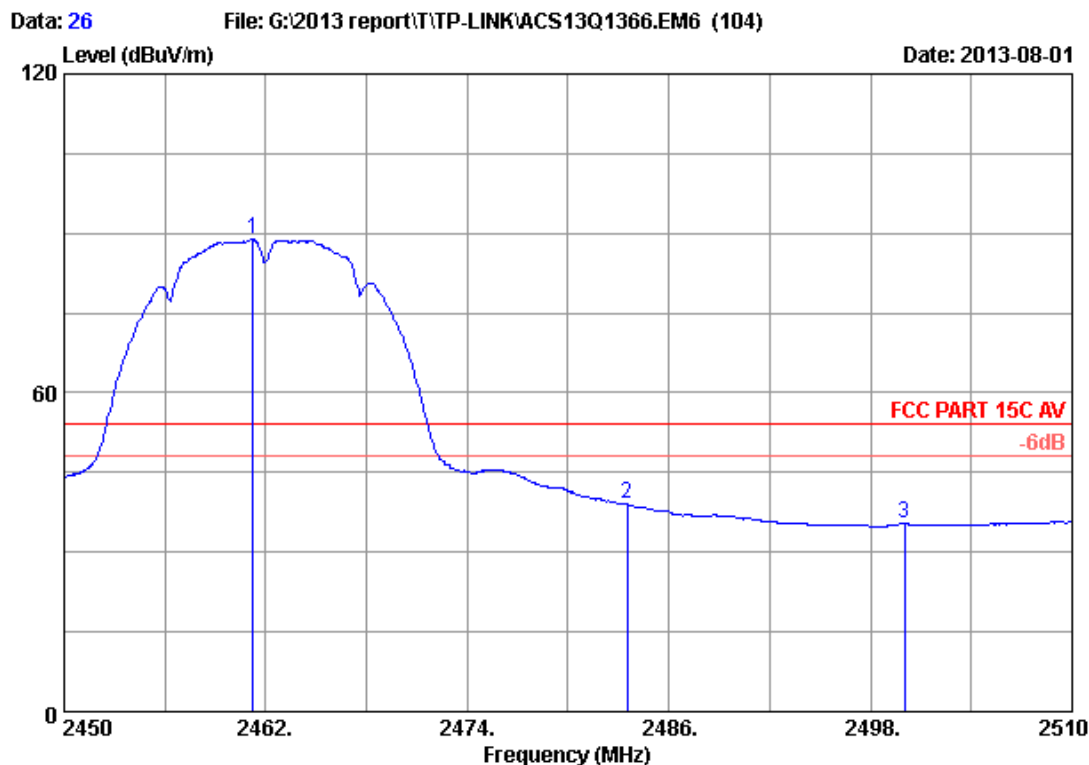


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.16	5.89	35.70	96.39	93.74	74.00	-19.74	Peak
2	2483.500	27.29	5.92	35.70	54.33	51.84	74.00	22.16	Peak
3	2500.000	27.40	5.94	35.70	50.14	47.78	74.00	26.22	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

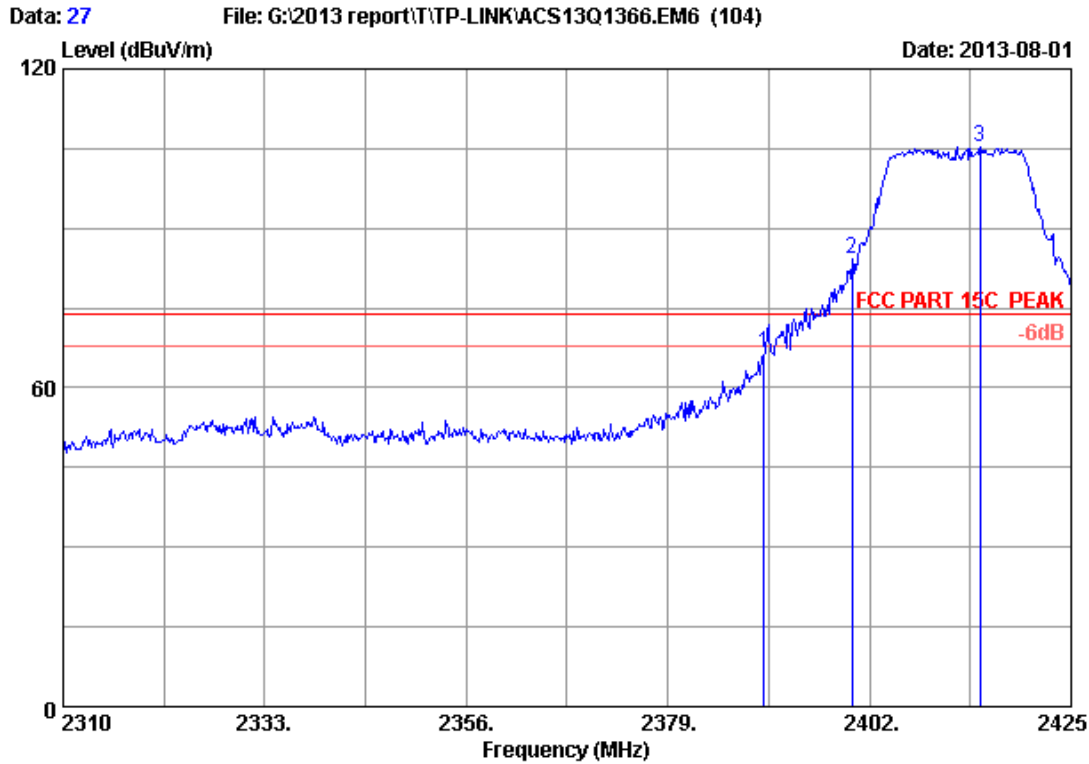


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	27.15	5.89	35.70	91.44	88.78	54.00	-34.78	Average
2	2483.500	27.29	5.92	35.70	41.49	39.00	54.00	15.00	Average
3	2500.000	27.40	5.94	35.70	37.65	35.29	54.00	18.71	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

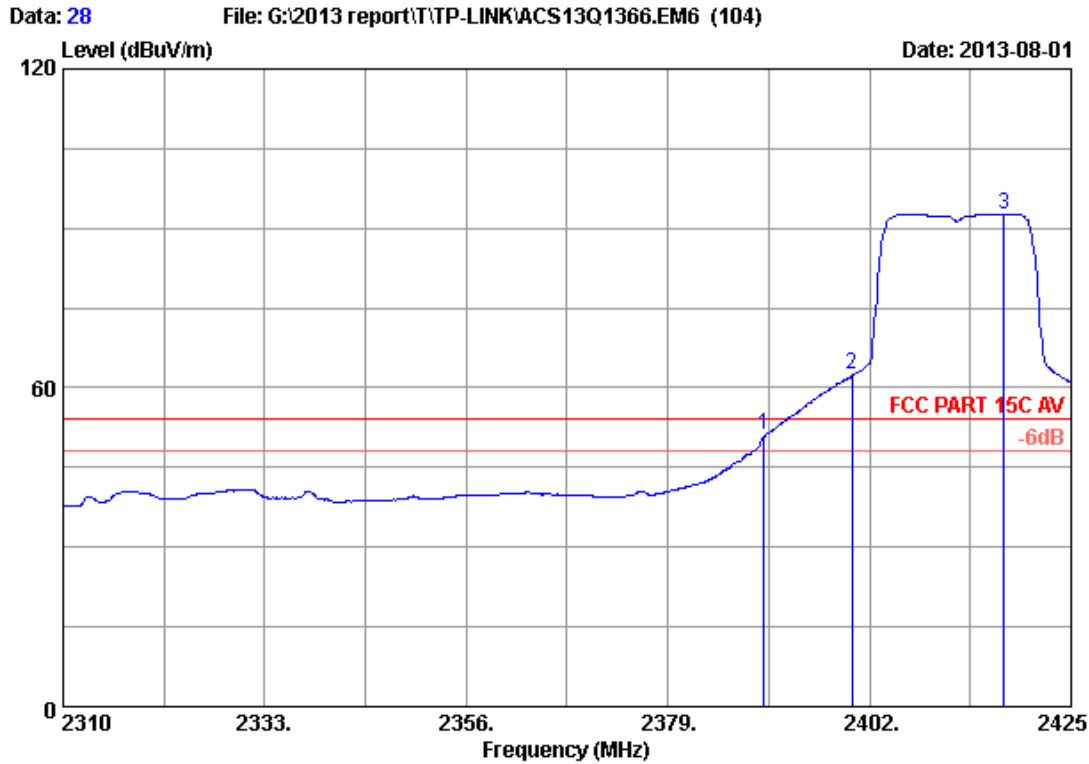


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Ant. Factor	Cable loss	Amp. Factor	Reading	Emission Level	Limits	Margin	Remark
Freq. (MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2390.000	26.70	5.78	35.70	69.61	66.39	74.00	7.61	Peak
2 2400.000	26.76	5.80	35.70	87.54	84.40	74.00	-10.40	Peak
3 2414.650	26.85	5.82	35.70	108.18	105.15	74.00	-31.15	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

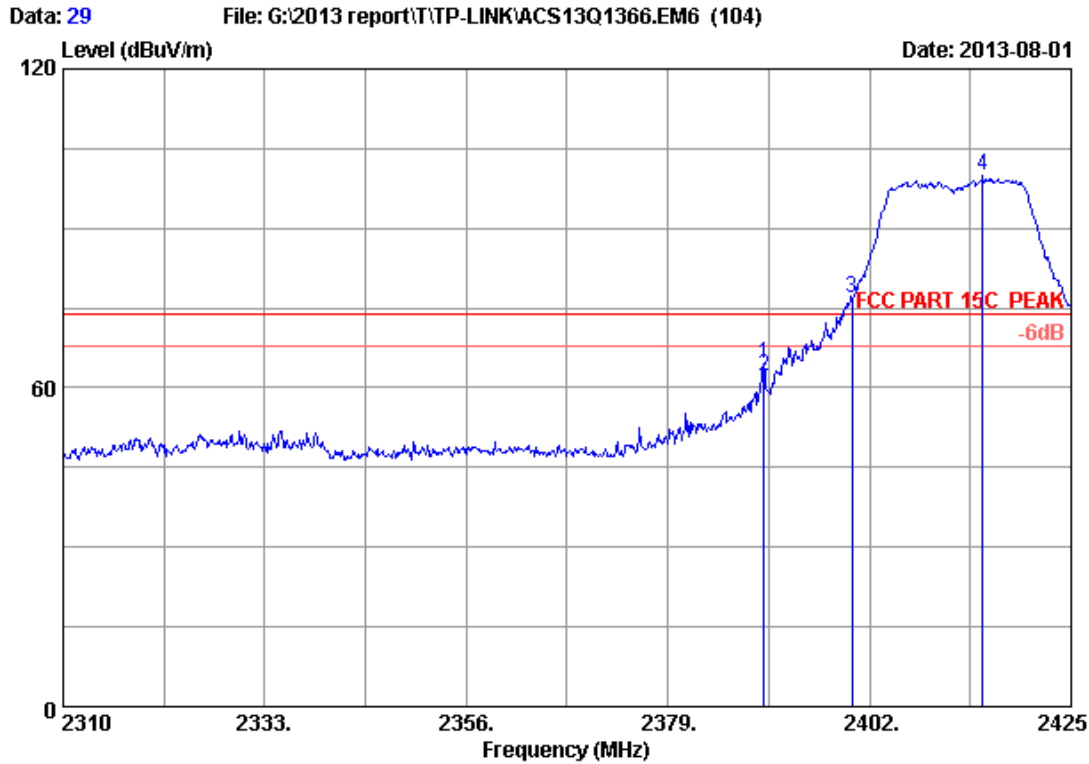


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	54.32	51.10	54.00	2.90	Average
2	2400.000	26.76	5.80	35.70	65.49	62.35	54.00	-8.35	Average
3	2417.295	26.87	5.82	35.70	95.75	92.74	54.00	-38.74	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

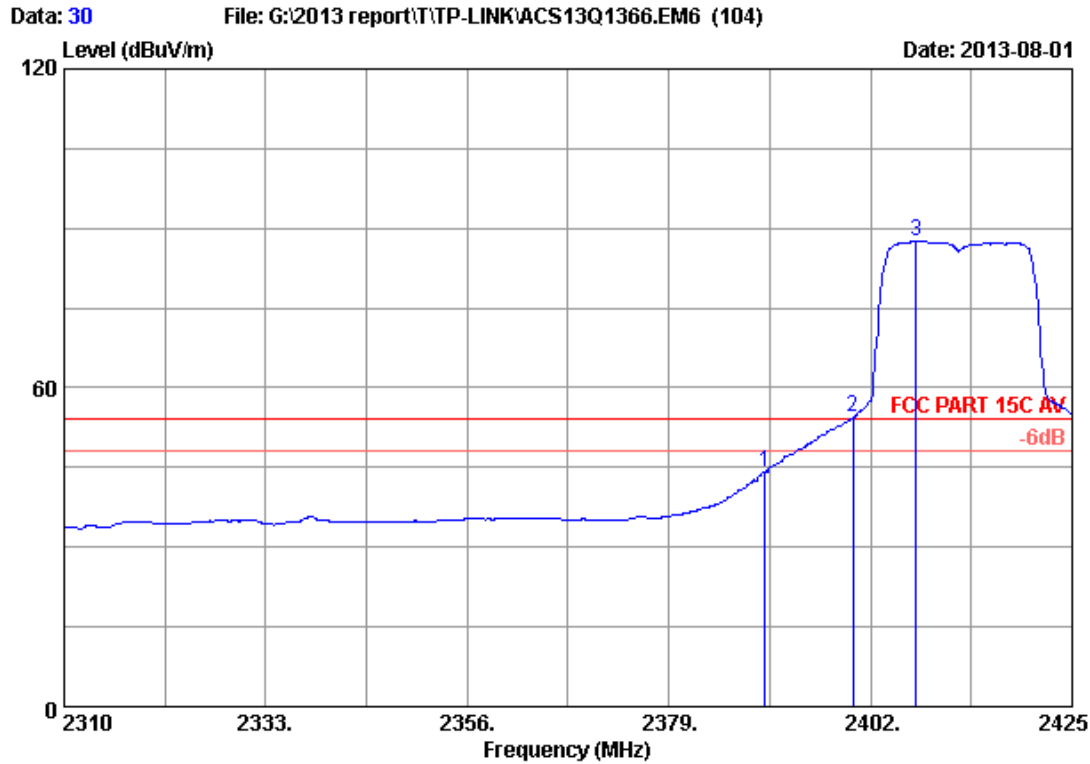


Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.925	26.70	5.78	35.70	67.66	64.44	74.00	9.56	Peak
2	2390.000	26.70	5.78	35.70	65.36	62.14	74.00	11.86	Peak
3	2400.000	26.76	5.80	35.70	80.01	76.87	74.00	-2.87	Peak
4	2414.880	26.86	5.82	35.70	102.93	99.91	74.00	-25.91	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

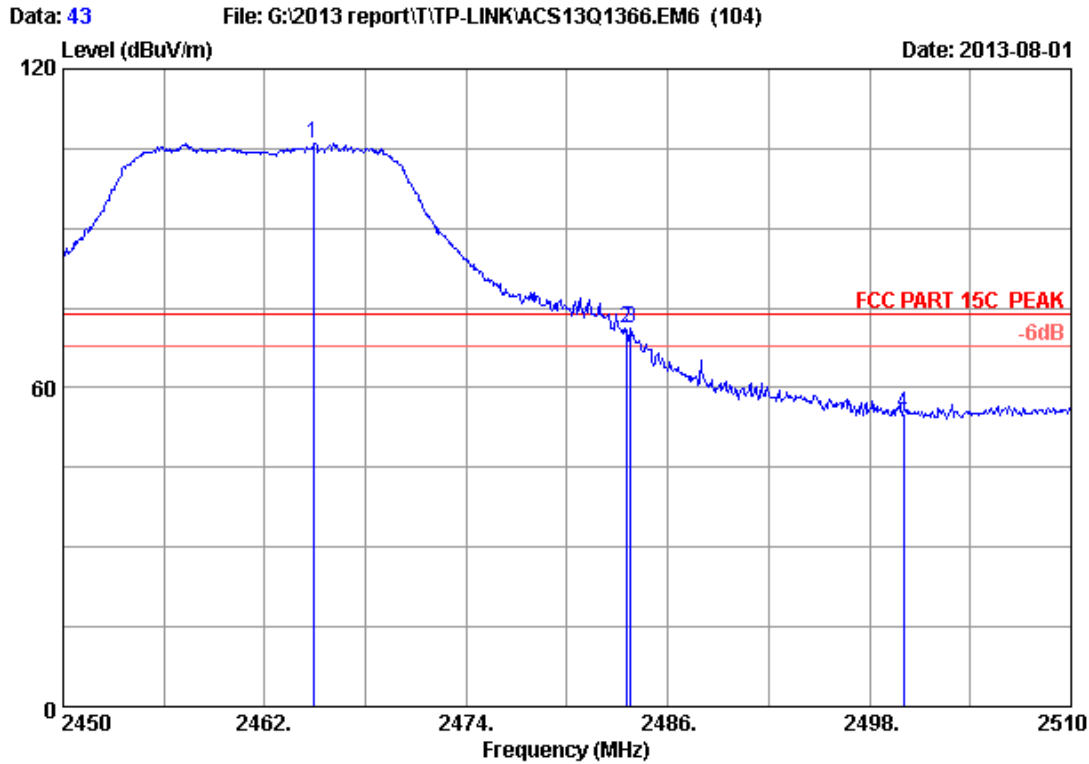


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	47.48	44.26	54.00	9.74	Average
2	2400.000	26.76	5.80	35.70	57.57	54.43	54.00	-0.43	Average
3	2407.175	26.81	5.81	35.70	90.60	87.52	54.00	-33.52	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

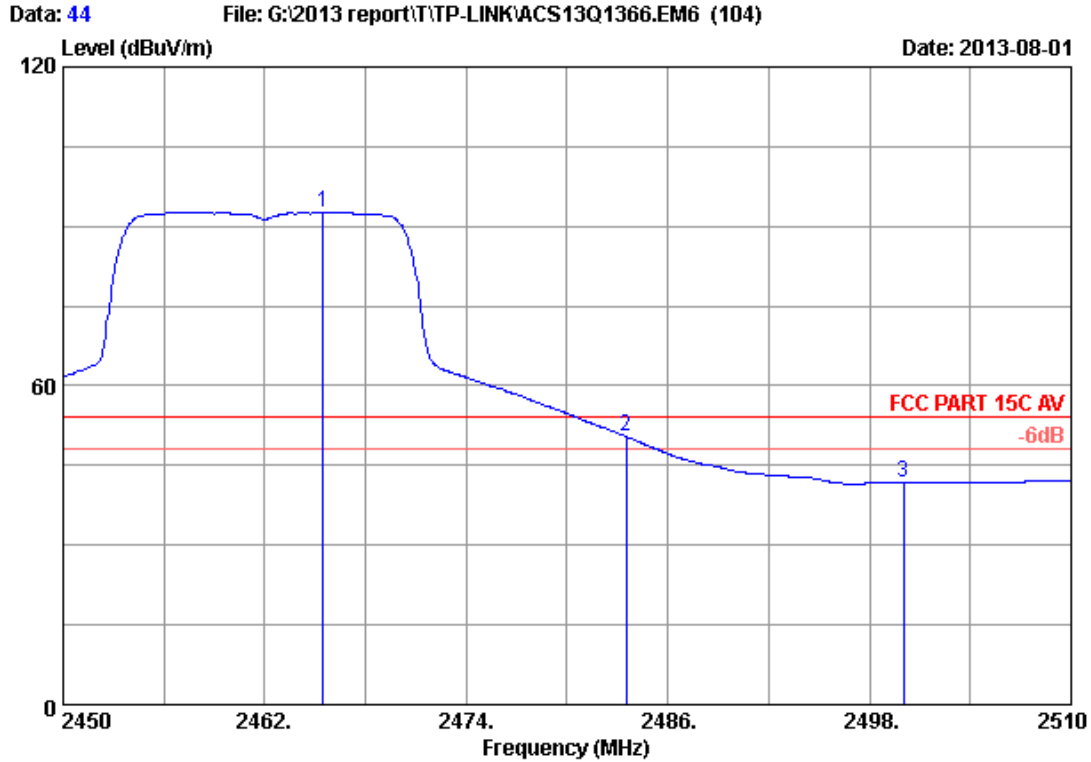


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.880	27.18	5.89	35.70	108.58	105.95	74.00	-31.95	Peak
2	2483.500	27.29	5.92	35.70	73.53	71.04	74.00	2.96	Peak
3	2483.780	27.30	5.92	35.70	73.72	71.24	74.00	2.76	Peak
4	2500.000	27.40	5.94	35.70	57.43	55.07	74.00	18.93	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

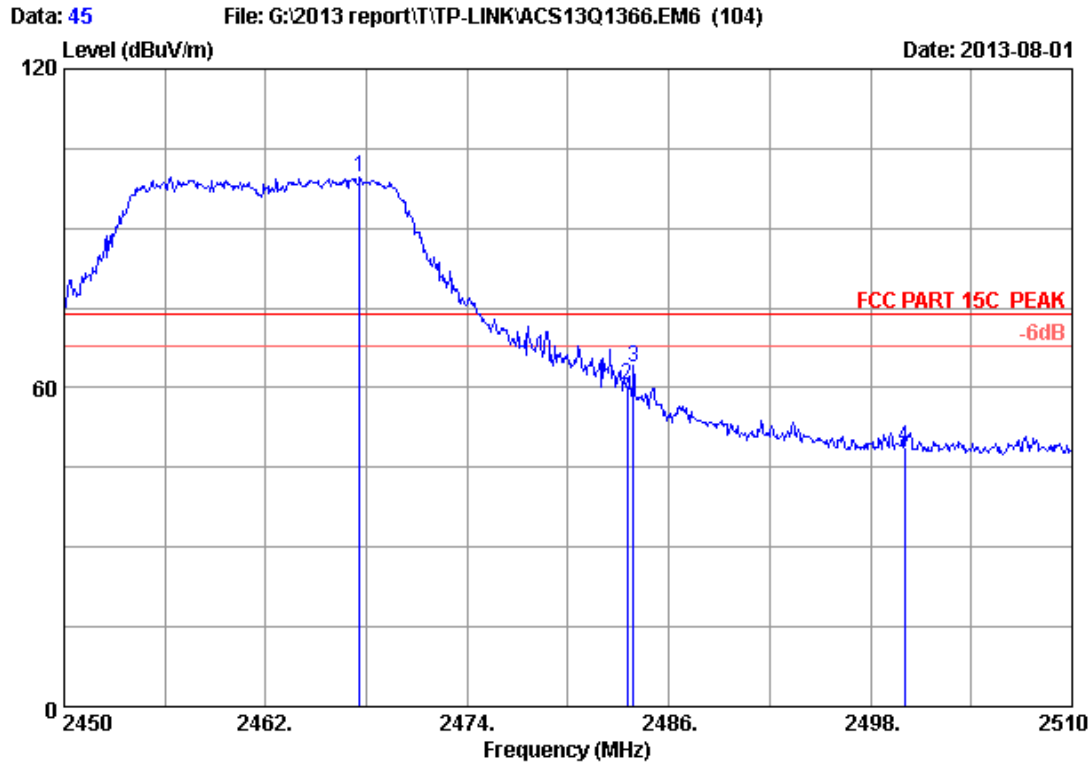


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.480	27.18	5.89	35.70	95.21	92.58	54.00	-38.58	Average
2	2483.500	27.29	5.92	35.70	53.01	50.52	54.00	3.48	Average
3	2500.000	27.40	5.94	35.70	44.11	41.75	54.00	12.25	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

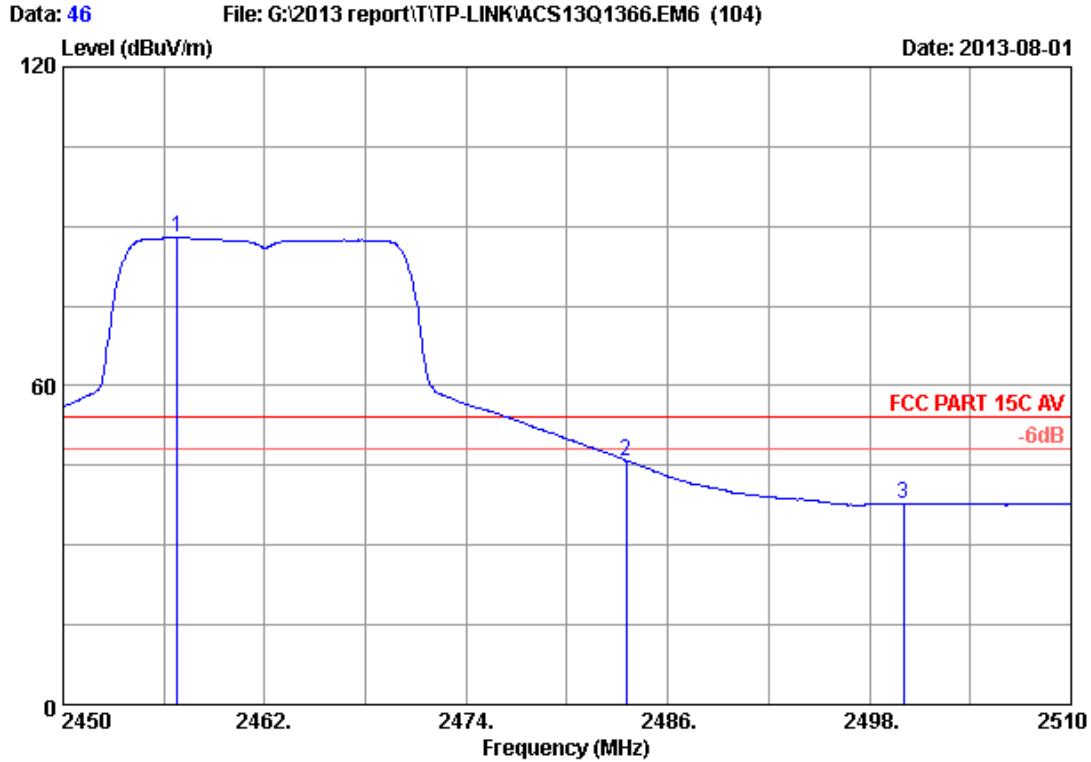


Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.580	27.19	5.90	35.70	102.17	99.56	74.00	-25.56	Peak
2	2483.500	27.29	5.92	35.70	62.88	60.39	74.00	13.61	Peak
3	2483.900	27.30	5.92	35.70	66.49	64.01	74.00	9.99	Peak
4	2500.000	27.40	5.94	35.70	51.22	48.86	74.00	25.14	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

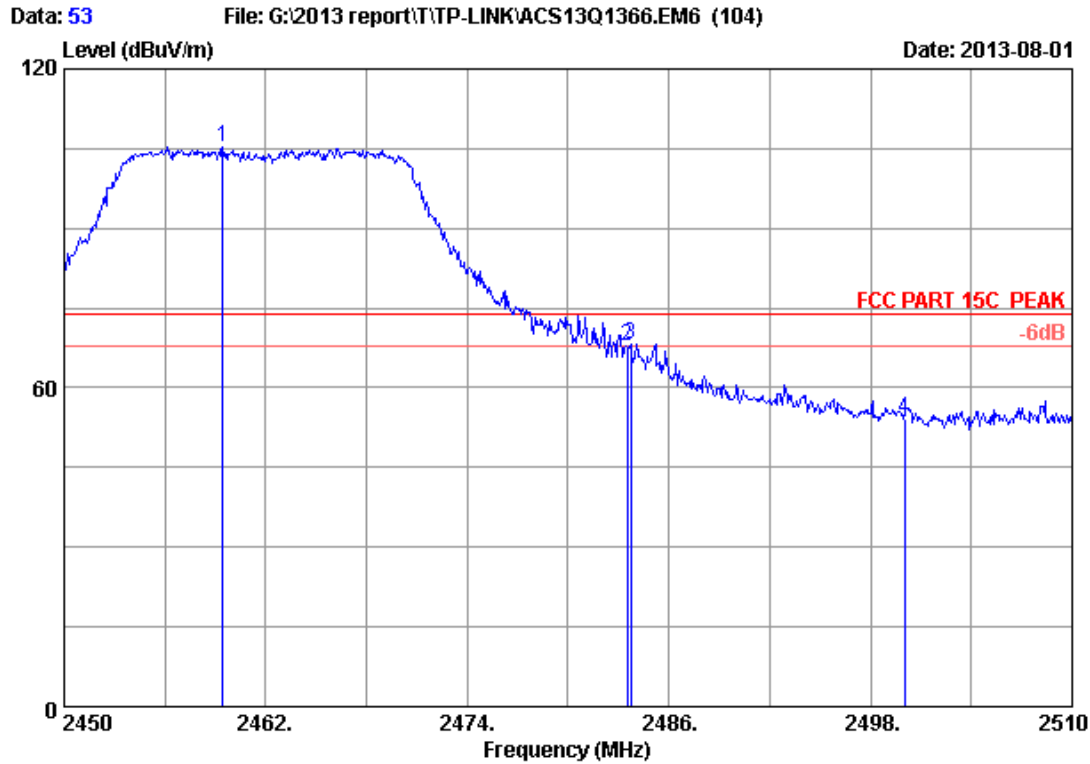


Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.780	27.12	5.88	35.70	90.55	87.85	54.00	-33.85	Average
2	2483.500	27.29	5.92	35.70	48.42	45.93	54.00	8.07	Average
3	2500.000	27.40	5.94	35.70	40.03	37.67	54.00	16.33	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

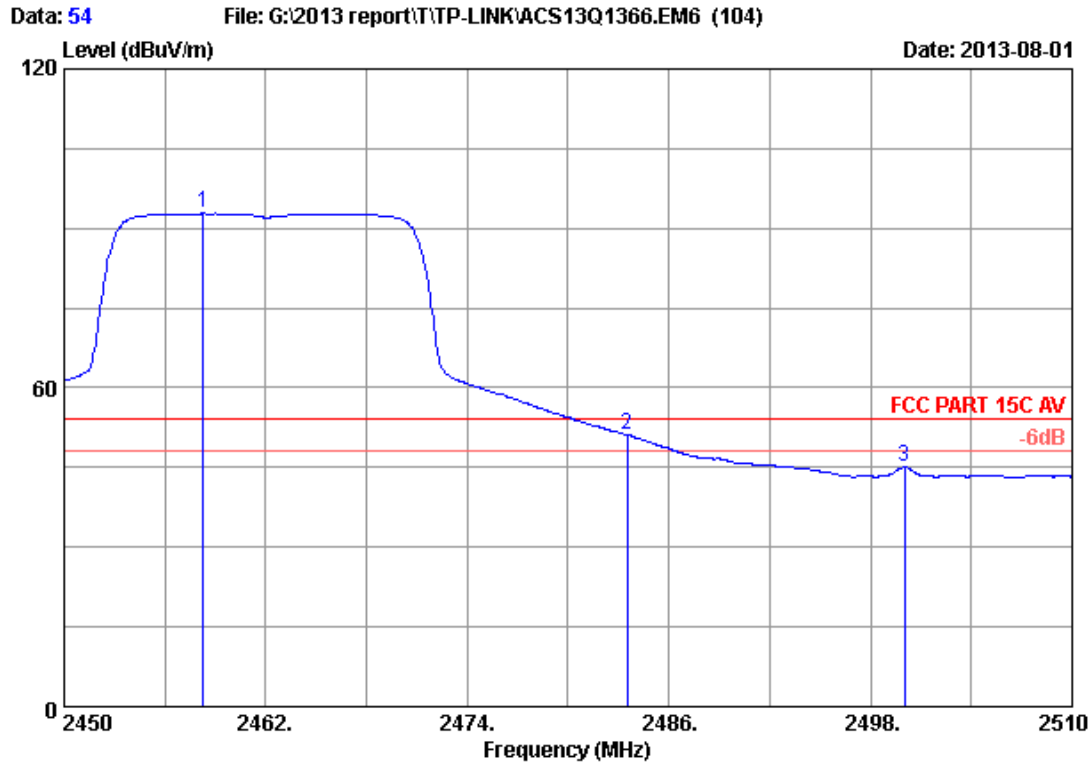


Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.420	27.14	5.88	35.70	107.89	105.21	74.00	-31.21	Peak
2	2483.500	27.29	5.92	35.70	70.19	67.70	74.00	6.30	Peak
3	2483.720	27.30	5.92	35.70	70.55	68.07	74.00	5.93	Peak
4	2500.000	27.40	5.94	35.70	56.61	54.25	74.00	19.75	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

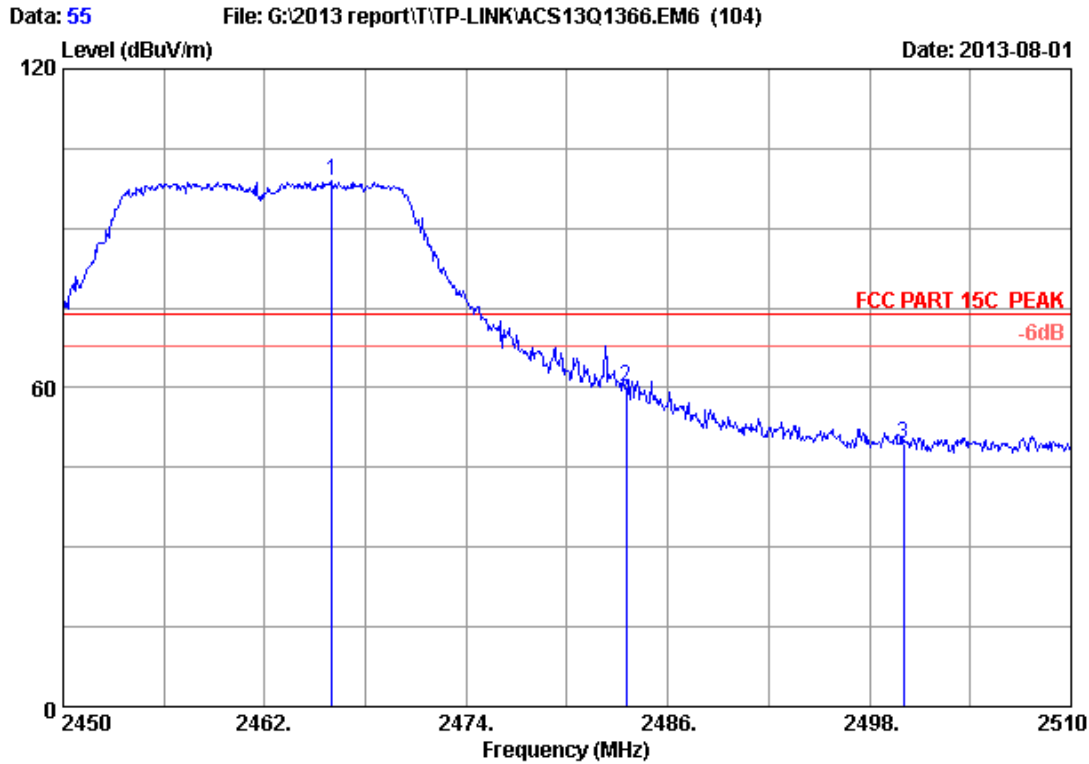


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.280	27.13	5.88	35.70	95.45	92.76	54.00	-38.76	Average
2	2483.500	27.29	5.92	35.70	53.61	51.12	54.00	2.88	Average
3	2500.000	27.40	5.94	35.70	47.38	45.02	54.00	8.98	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

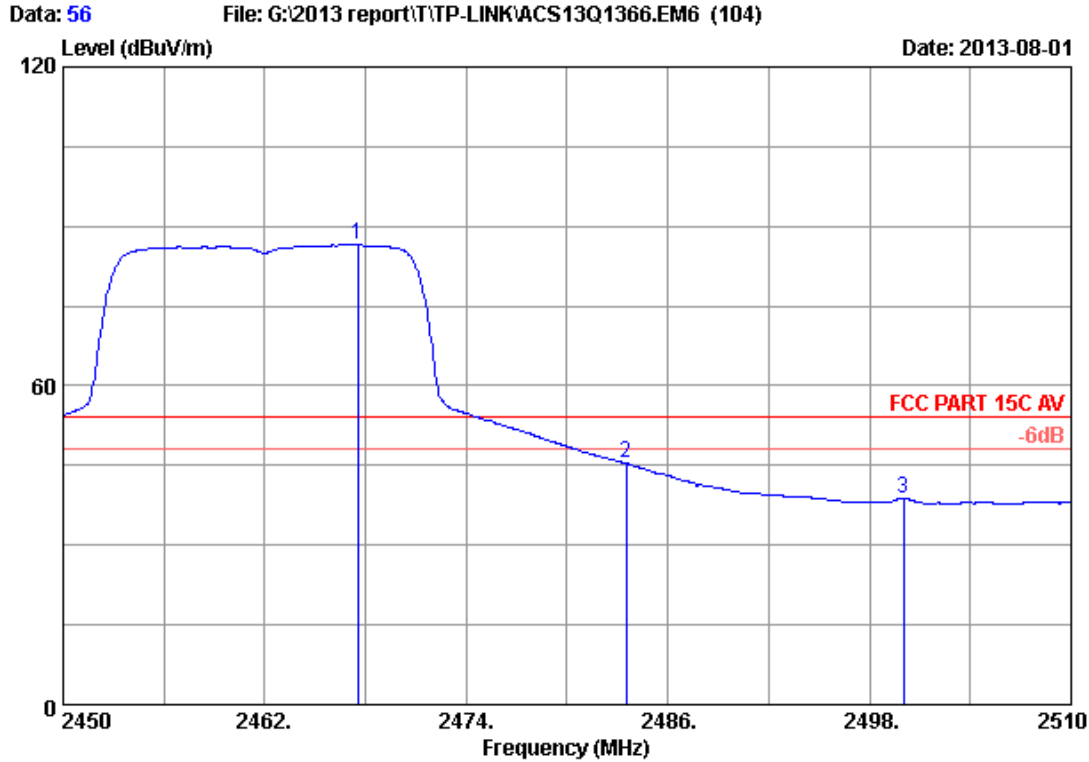


Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2466.020	27.18	5.89	35.70	101.43	98.80	74.00	-24.80	Peak
2	2483.500	27.29	5.92	35.70	62.55	60.06	74.00	13.94	Peak
3	2500.000	27.40	5.94	35.70	51.67	49.31	74.00	24.69	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

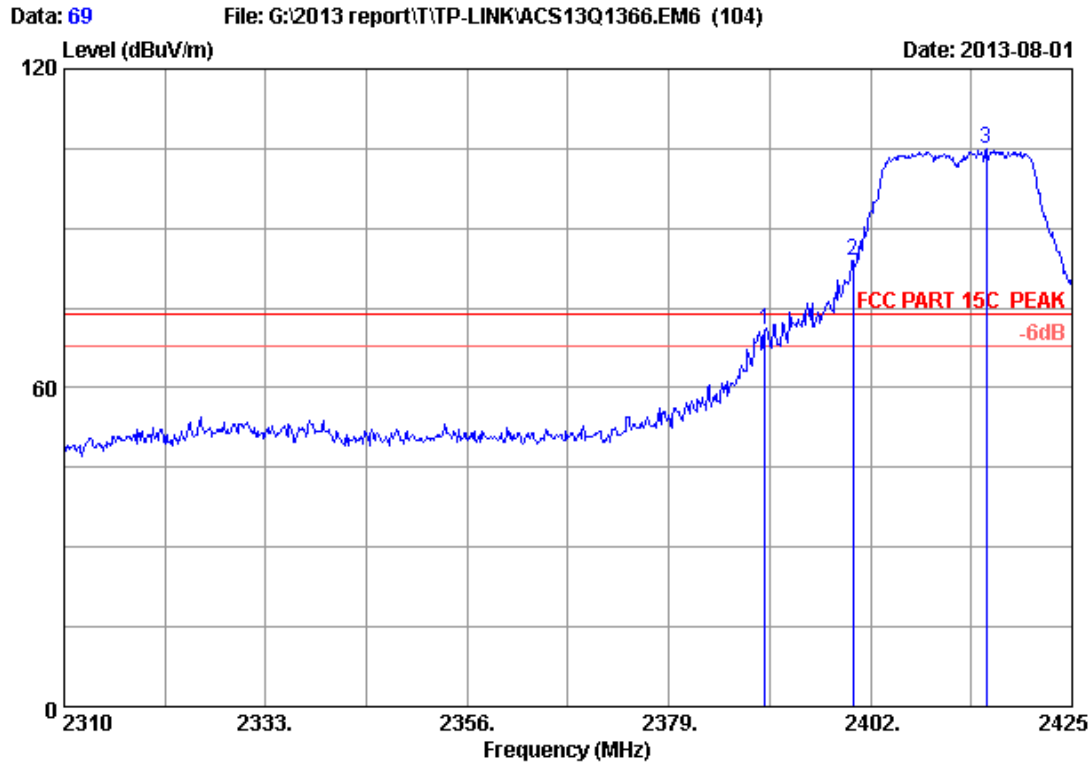


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.520	27.19	5.90	35.70	89.11	86.50	54.00	-32.50	Average
2	2483.500	27.29	5.92	35.70	47.92	45.43	54.00	8.57	Average
3	2500.000	27.40	5.94	35.70	41.13	38.77	54.00	15.23	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

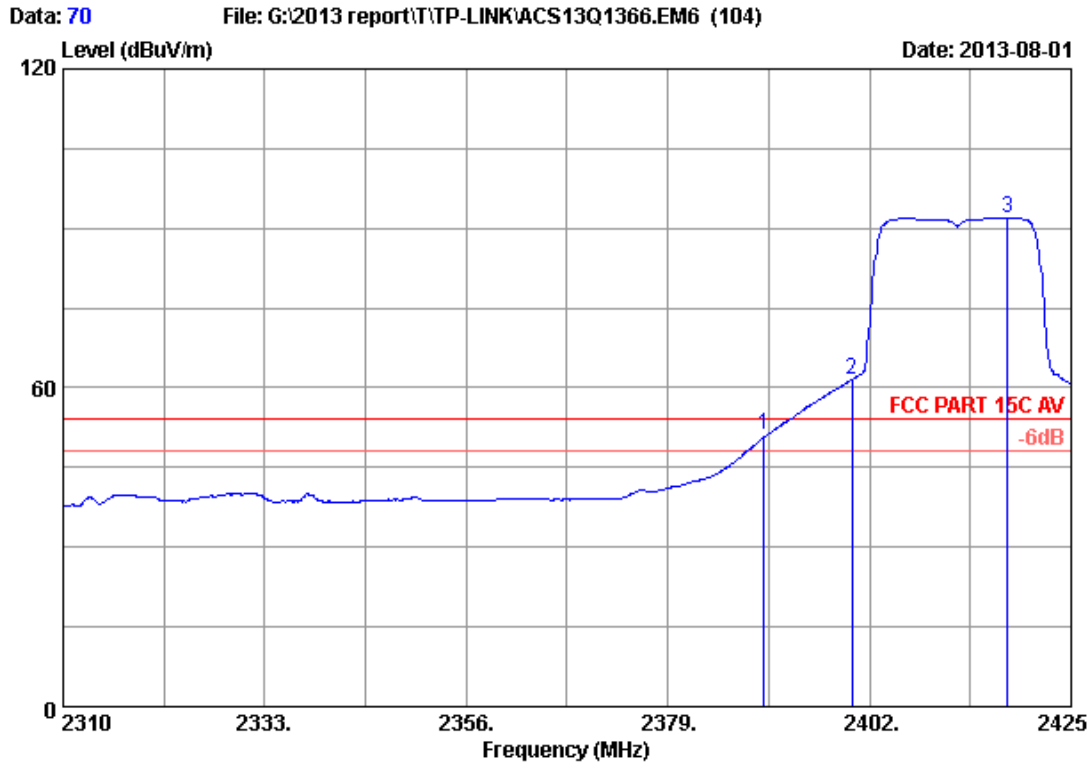


Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	74.15	70.93	74.00	3.07	Peak
2	2400.000	26.76	5.80	35.70	86.97	83.83	74.00	-9.83	Peak
3	2415.225	26.86	5.82	35.70	107.99	104.97	74.00	-30.97	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

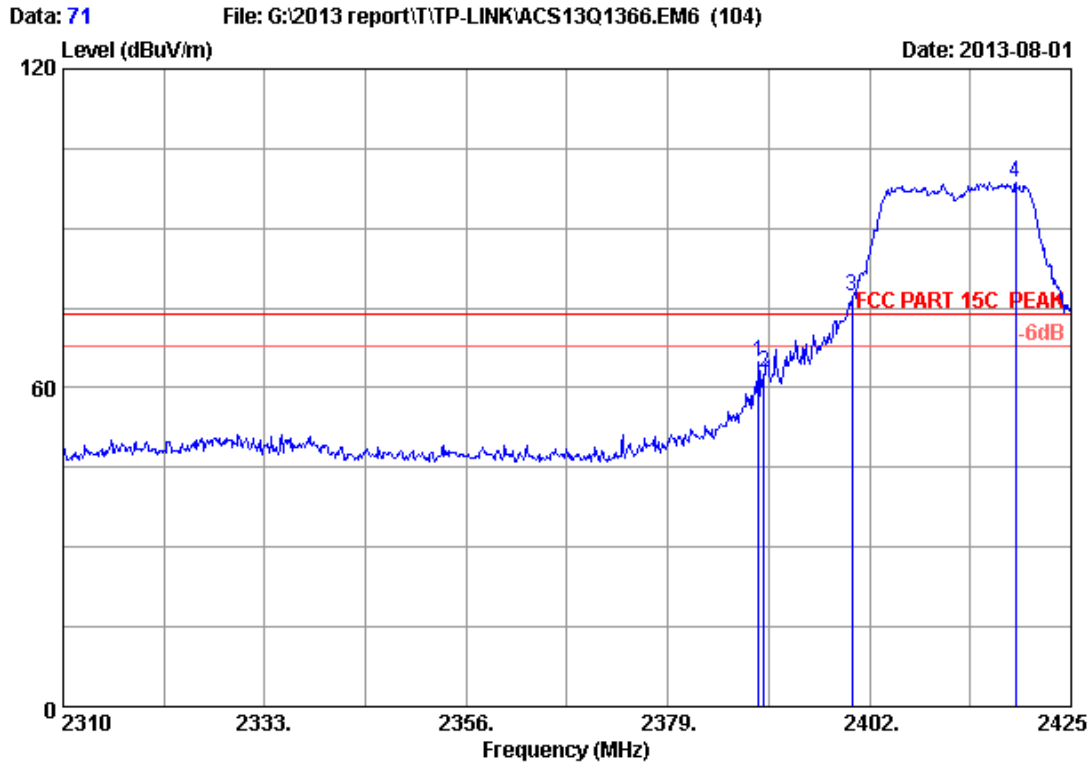


Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TL-WR1043ND

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	54.21	50.99	54.00	3.01	Average
2	2400.000	26.76	5.80	35.70	64.72	61.58	54.00	-7.58	Average
3	2417.755	26.87	5.82	35.70	94.97	91.96	54.00	-37.96	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

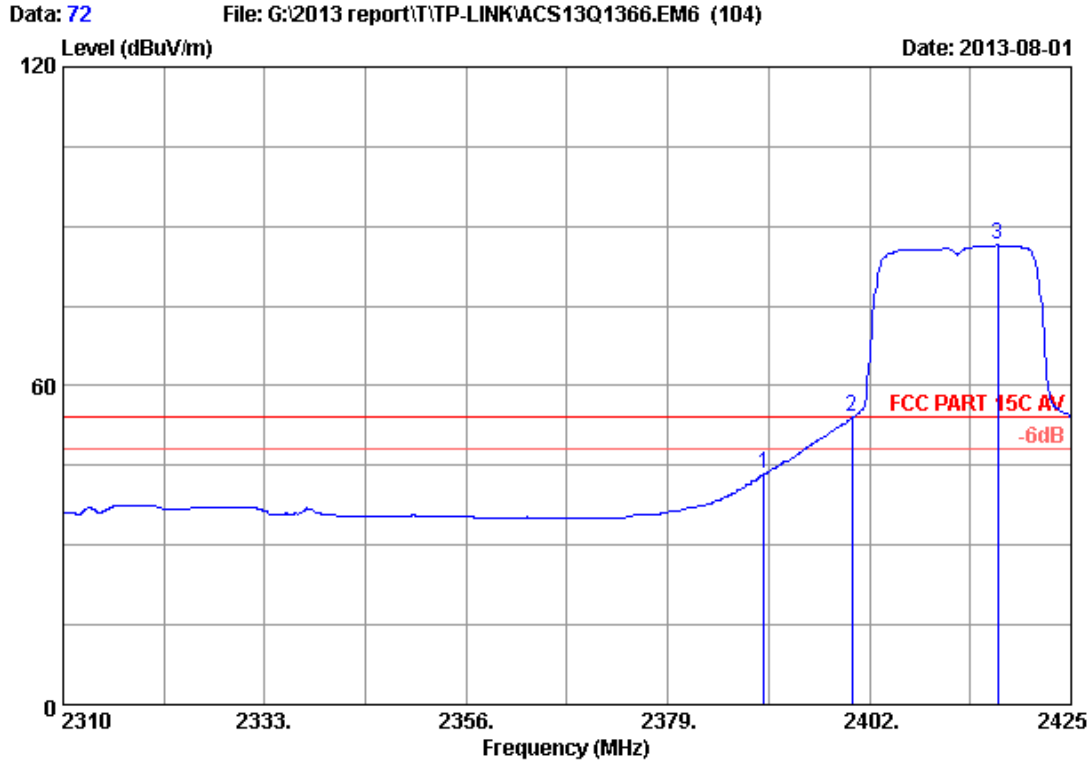


Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.350	26.69	5.78	35.70	68.09	64.86	74.00	9.14	Peak
2	2390.000	26.70	5.78	35.70	66.14	62.92	74.00	11.08	Peak
3	2400.000	26.76	5.80	35.70	80.46	77.32	74.00	-3.32	Peak
4	2418.675	26.88	5.82	35.70	101.65	98.65	74.00	-24.65	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

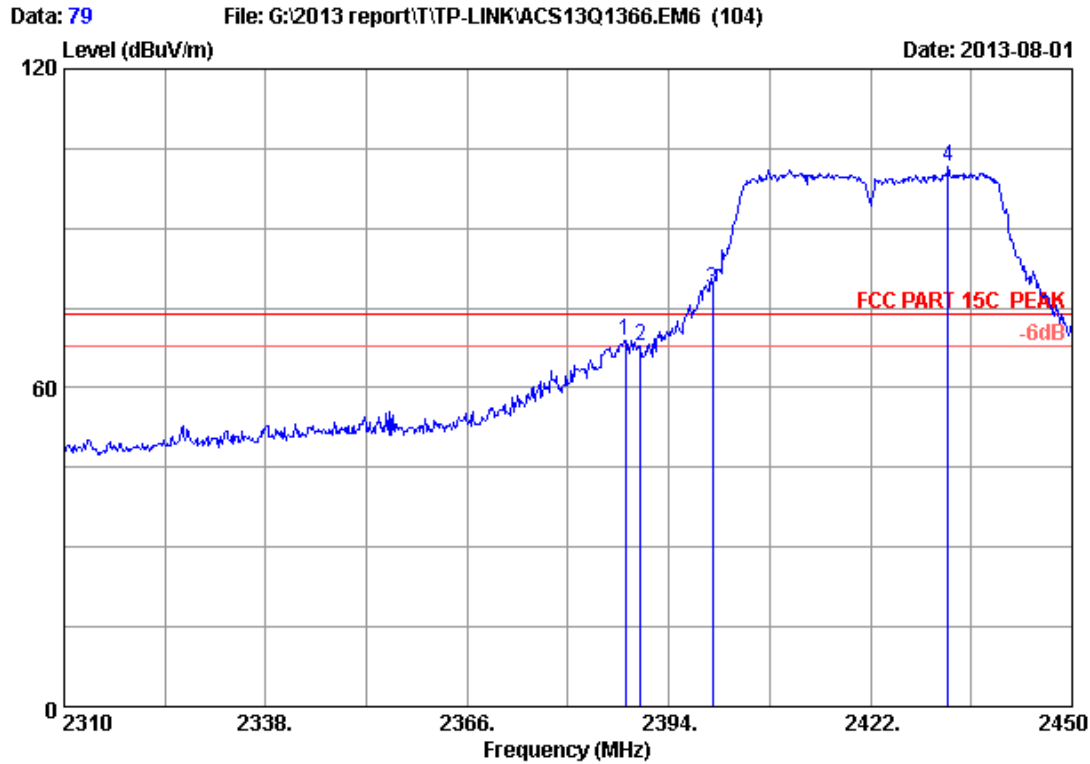


Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	46.53	43.31	54.00	10.69	Average
2	2400.000	26.76	5.80	35.70	57.20	54.06	54.00	-0.06	Average
3	2416.605	26.87	5.82	35.70	89.43	86.42	54.00	-32.42	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

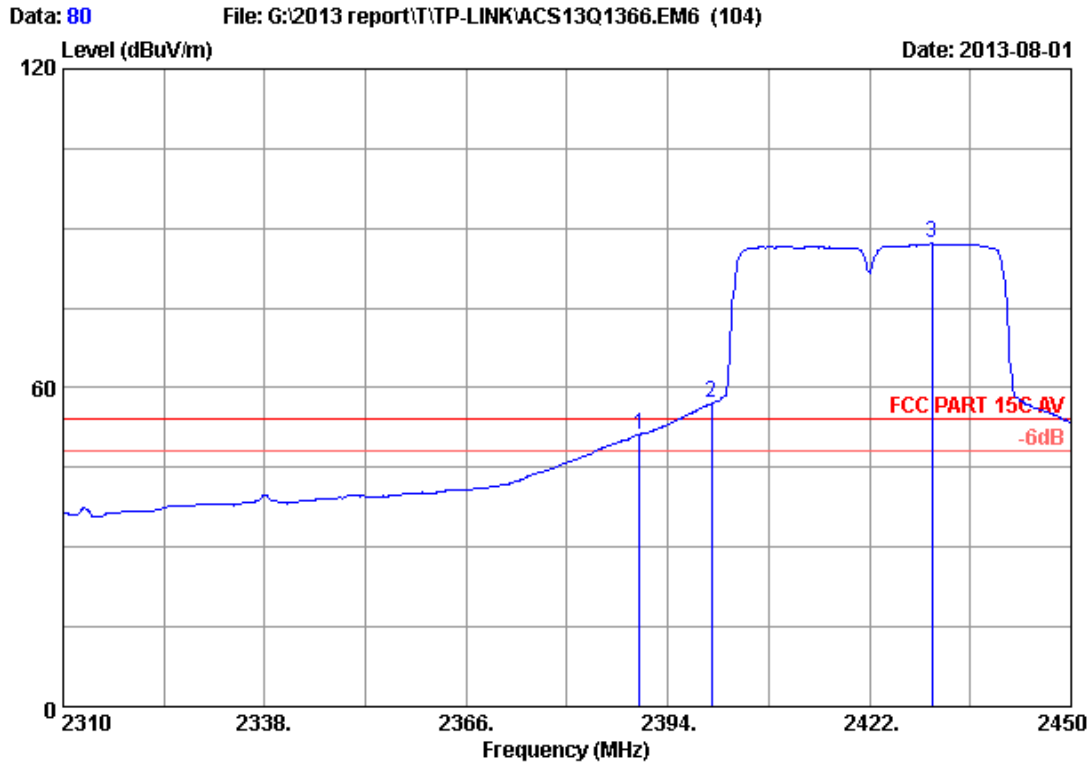


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.980	26.68	5.78	35.70	72.21	68.97	74.00	5.03	Peak
2	2390.000	26.70	5.78	35.70	71.01	67.79	74.00	6.21	Peak
3	2400.000	26.76	5.80	35.70	81.82	78.68	74.00	-4.68	Peak
4	2432.780	26.97	5.84	35.70	104.57	101.68	74.00	-27.68	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

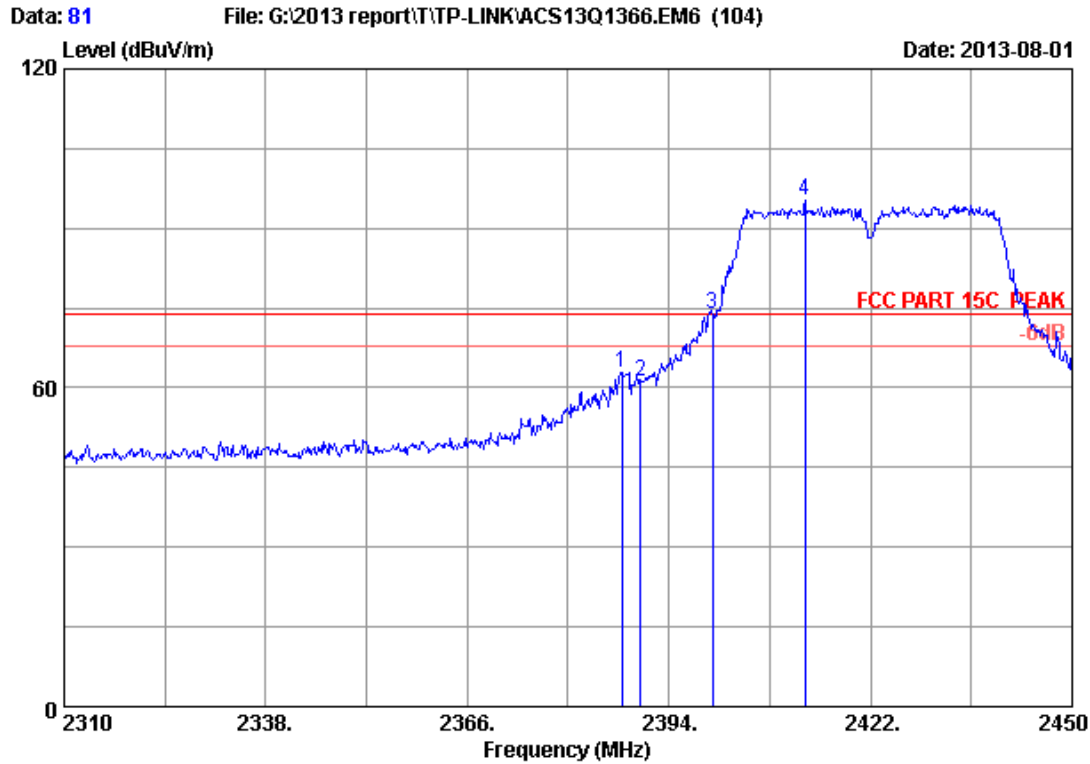


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	54.28	51.06	54.00	2.94	Average
2	2400.000	26.76	5.80	35.70	60.24	57.10	54.00	-3.10	Average
3	2430.680	26.96	5.84	35.70	89.99	87.09	54.00	-33.09	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

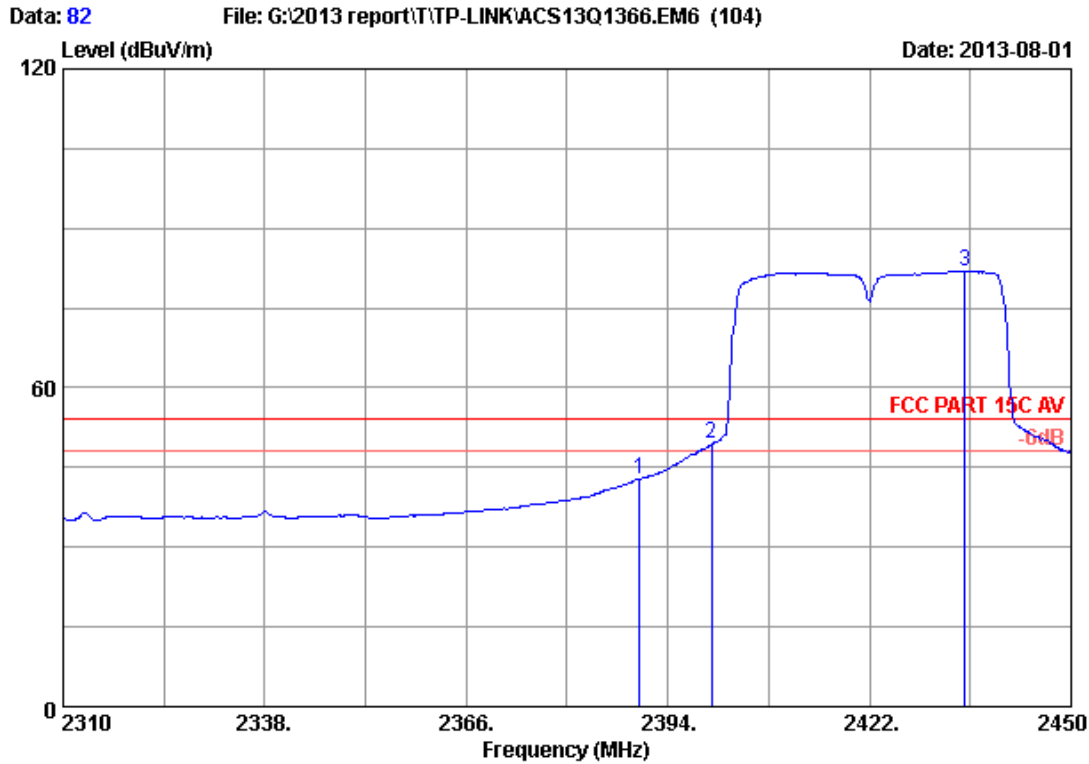


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.420	26.68	5.78	35.70	66.15	62.91	74.00	11.09	Peak
2	2390.000	26.70	5.78	35.70	64.34	61.12	74.00	12.88	Peak
3	2400.000	26.76	5.80	35.70	77.17	74.03	74.00	-0.03	Peak
4	2412.900	26.84	5.82	35.70	98.32	95.28	74.00	-21.28	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

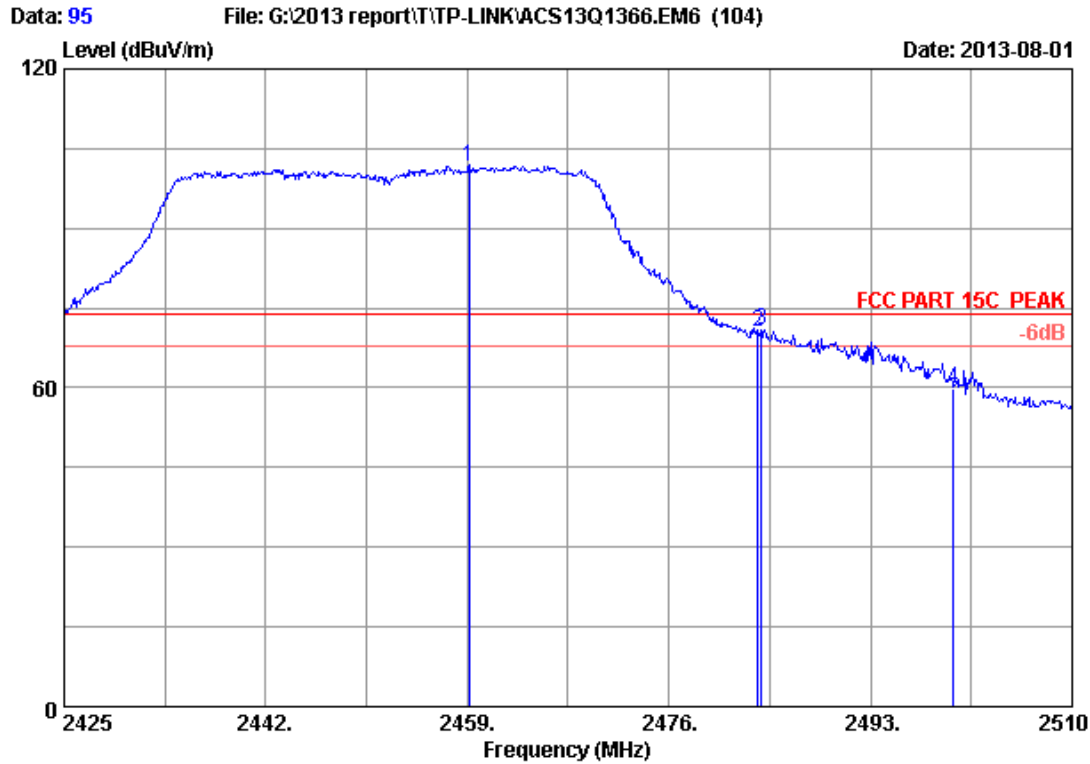


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	26.70	5.78	35.70	45.98	42.76	54.00	11.24	Average
2	2400.000	26.76	5.80	35.70	52.64	49.50	54.00	4.50	Average
3	2435.300	26.99	5.85	35.70	84.77	81.91	54.00	-27.91	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

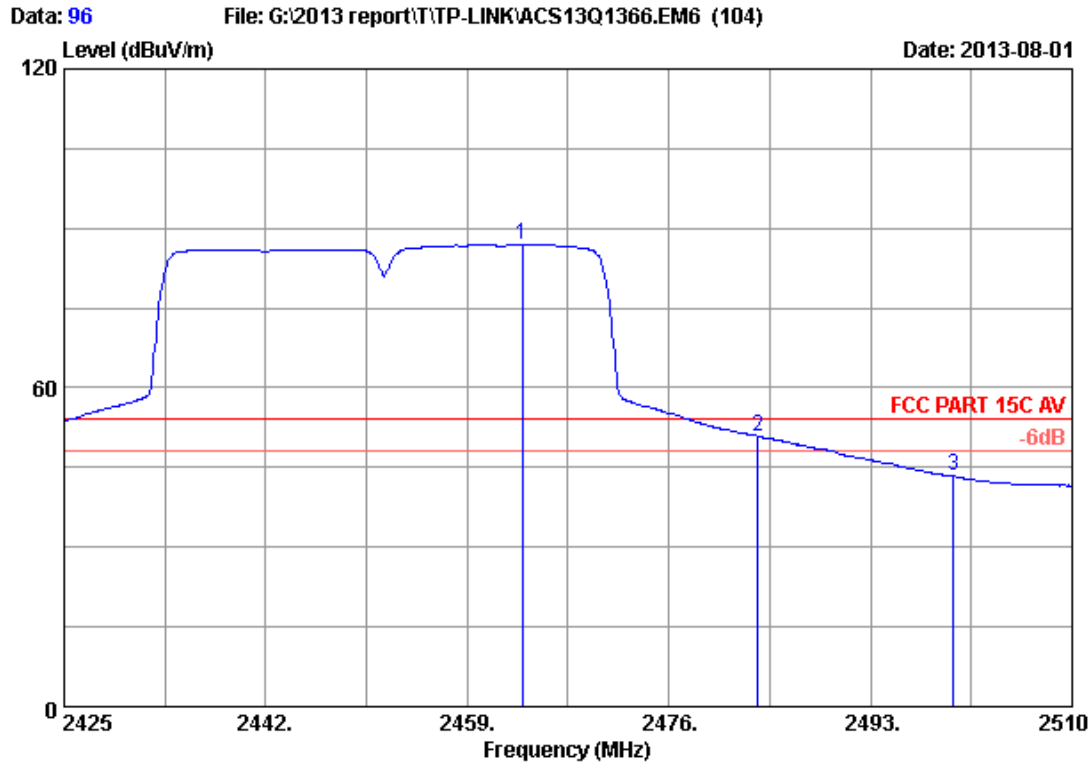


Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.170	27.14	5.88	35.70	104.46	101.78	74.00	-27.78	Peak
2	2483.500	27.29	5.92	35.70	73.17	70.68	74.00	3.32	Peak
3	2483.820	27.30	5.92	35.70	73.45	70.97	74.00	3.03	Peak
4	2500.000	27.40	5.94	35.70	62.36	60.00	74.00	14.00	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

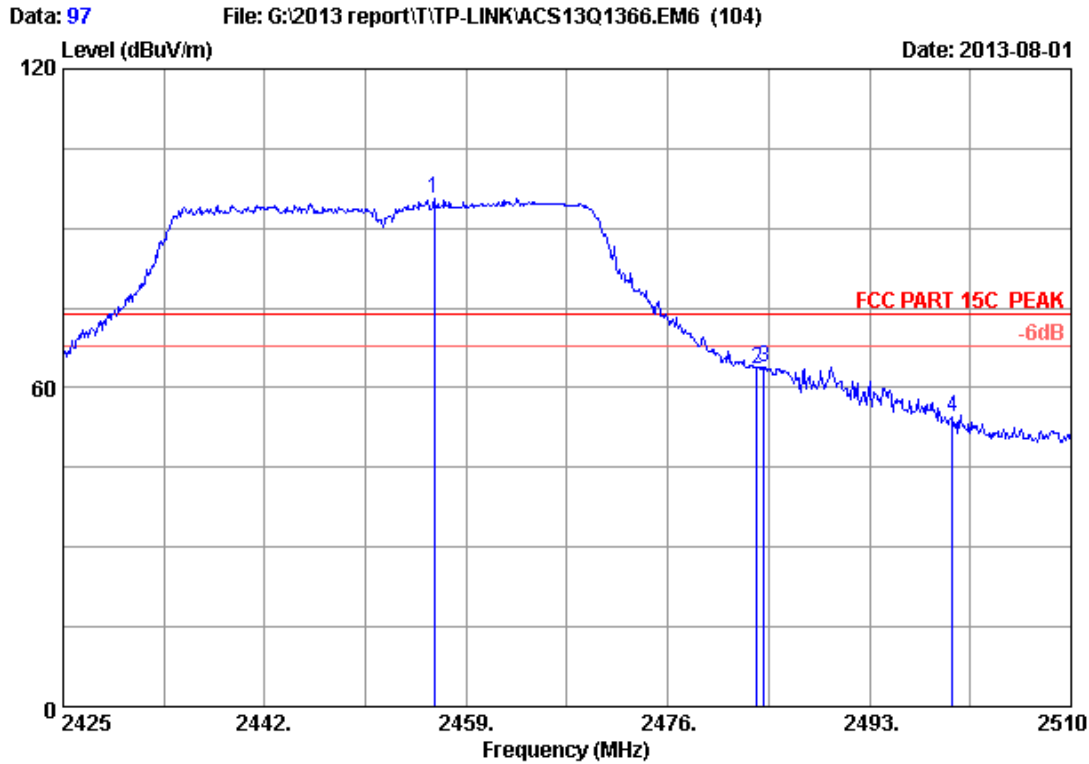


Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.675	27.17	5.89	35.70	89.57	86.93	54.00	-32.93	Average
2	2483.500	27.29	5.92	35.70	53.41	50.92	54.00	3.08	Average
3	2500.000	27.40	5.94	35.70	45.76	43.40	54.00	10.60	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



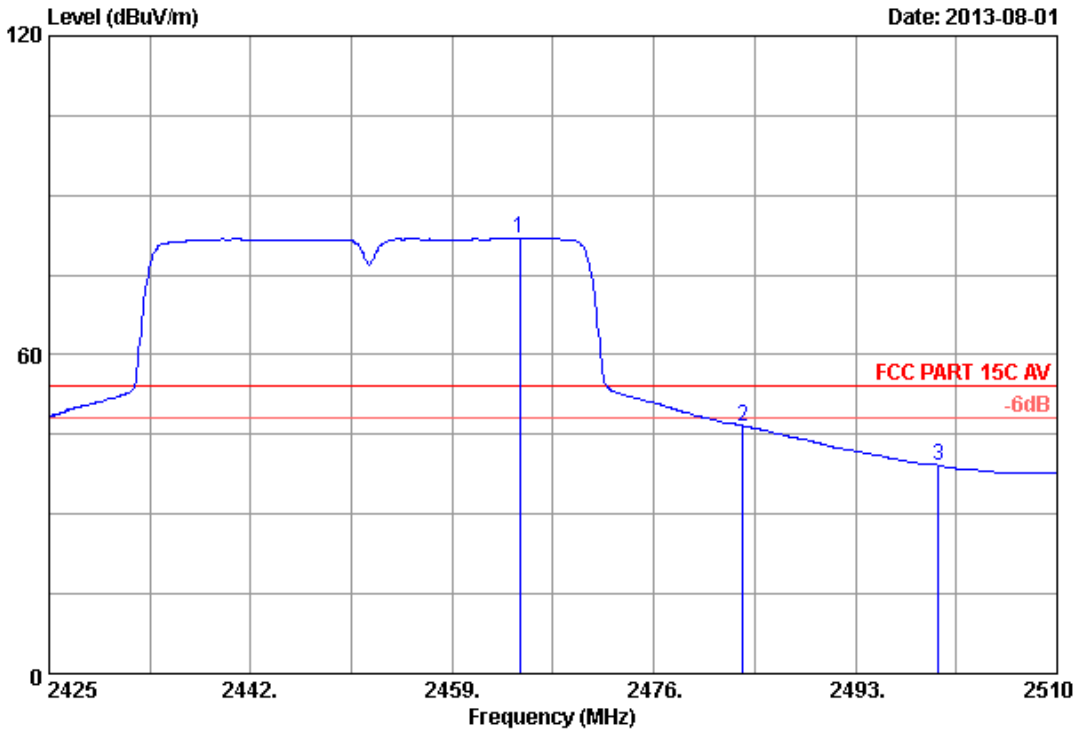
Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.280	27.12	5.88	35.70	98.35	95.65	74.00	-21.65	Peak
2	2483.500	27.29	5.92	35.70	66.14	63.65	74.00	10.35	Peak
3	2484.075	27.30	5.92	35.70	66.40	63.92	74.00	10.08	Peak
4	2500.000	27.40	5.94	35.70	56.72	54.36	74.00	19.64	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Data: 98 File: G:\2013 report\T\TP-LINK\ACS13Q1366.EM6 (104) Date: 2013-08-01



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Kevin_Hu
 EUT : 300Mbps Wireless N Gigabit Router
 Power supply : DC 12V From Adapter input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TL-WR1043ND
 :

	Ant.	Cable	Amp.	Emission		Limits	Margin	Remark
Freq. (MHz)	Factor (dB/m)	loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	(dBuV/m)	(dB)	
1 2464.695	27.17	5.89	35.70	84.66	82.02	54.00	-28.02	Average
2 2483.500	27.29	5.92	35.70	49.06	46.57	54.00	7.43	Average
3 2500.000	27.40	5.94	35.70	41.58	39.22	54.00	14.78	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 13	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

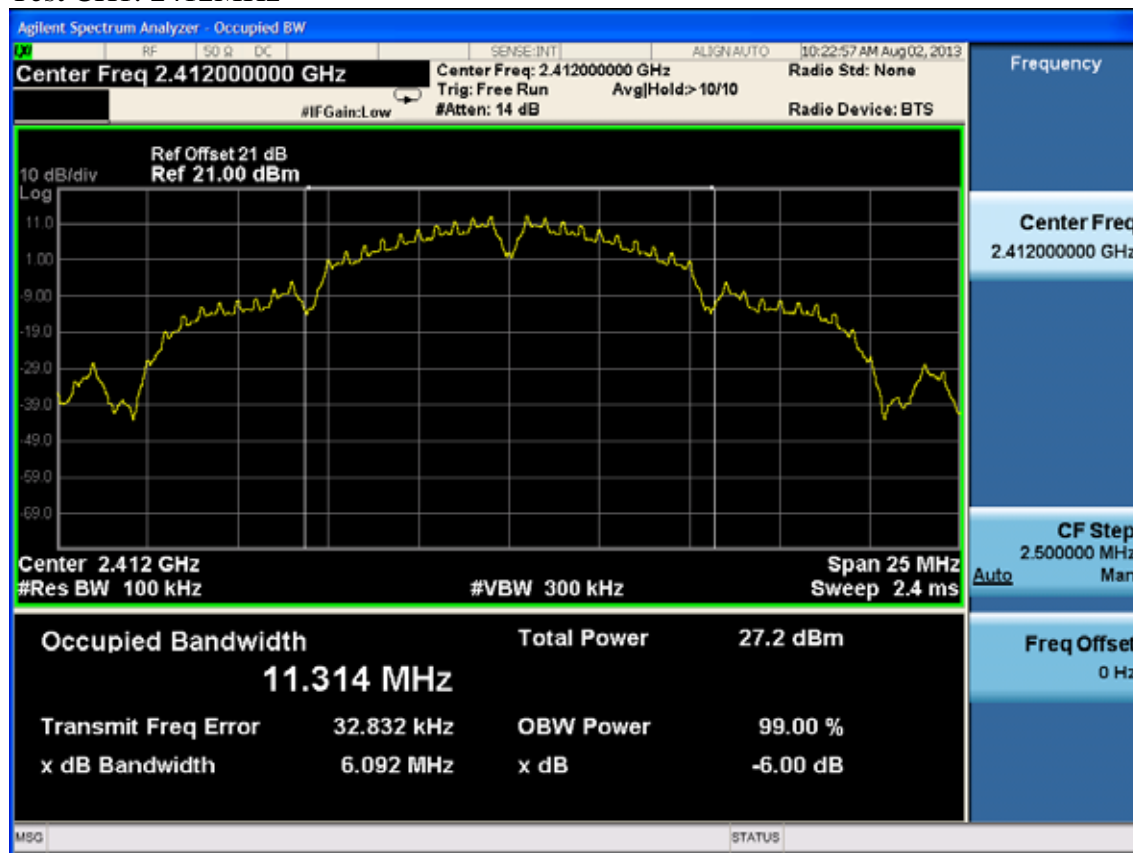
EUT: 300Mbps Wireless N Gigabit Router		
M/N: TL-WR1043ND		
Test date: 2013-08-06	Pressure: 101.1±1.0 kpa	Humidity: 51.3±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 21.4±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	6dB bandwidth (MHz)			Limit (KHz)
		ANT0	ANT1	ANT2	
11b	CH1	11.314	11.717	11.295	>500
	CH6	12.187	12.289	12.151	>500
	CH11	11.164	11.451	11.628	>500
11g	CH1	16.542	16.523	16.516	>500
	CH6	16.534	16.541	16.533	>500
	CH11	16.545	16.539	16.527	>500
11n HT20	CH1	17.707	17.690	17.682	>500
	CH6	17.704	17.692	17.668	>500
	CH11	17.710	17.697	17.674	>500
11n HT40	CH1	36.795	36.577	36.511	>500
	CH4	36.873	36.592	36.573	>500
	CH7	36.889	36.588	36.567	>500
Conclusion : PASS					

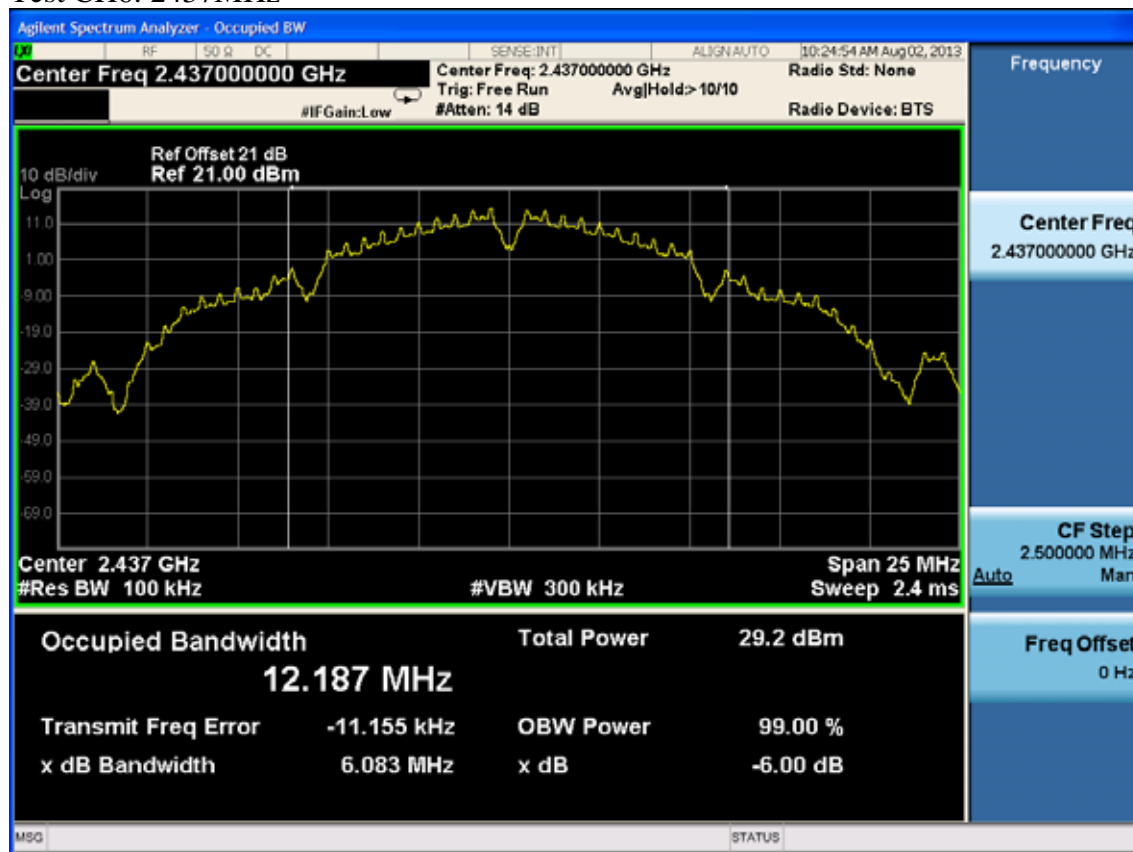
ANT 0

Test Mode: IEEE 802.11b TX

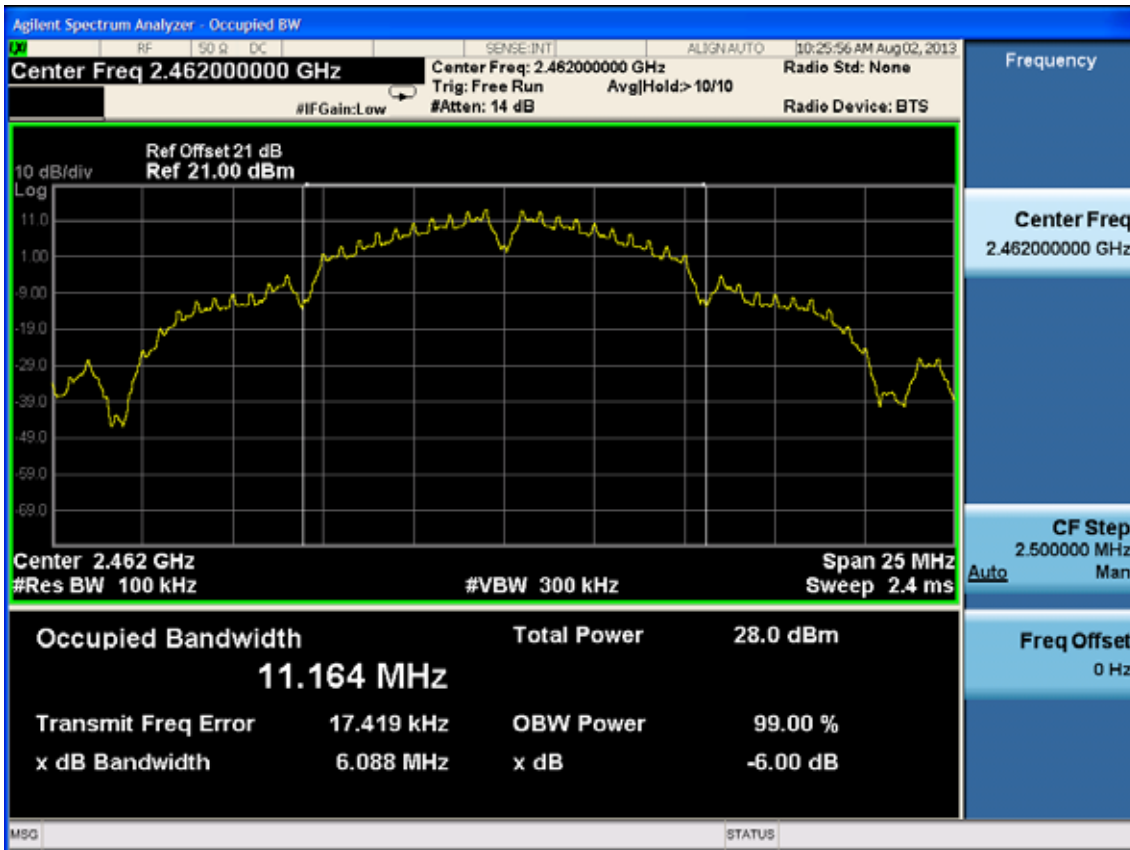
Test CH1: 2412MHz



Test CH6: 2437MHz

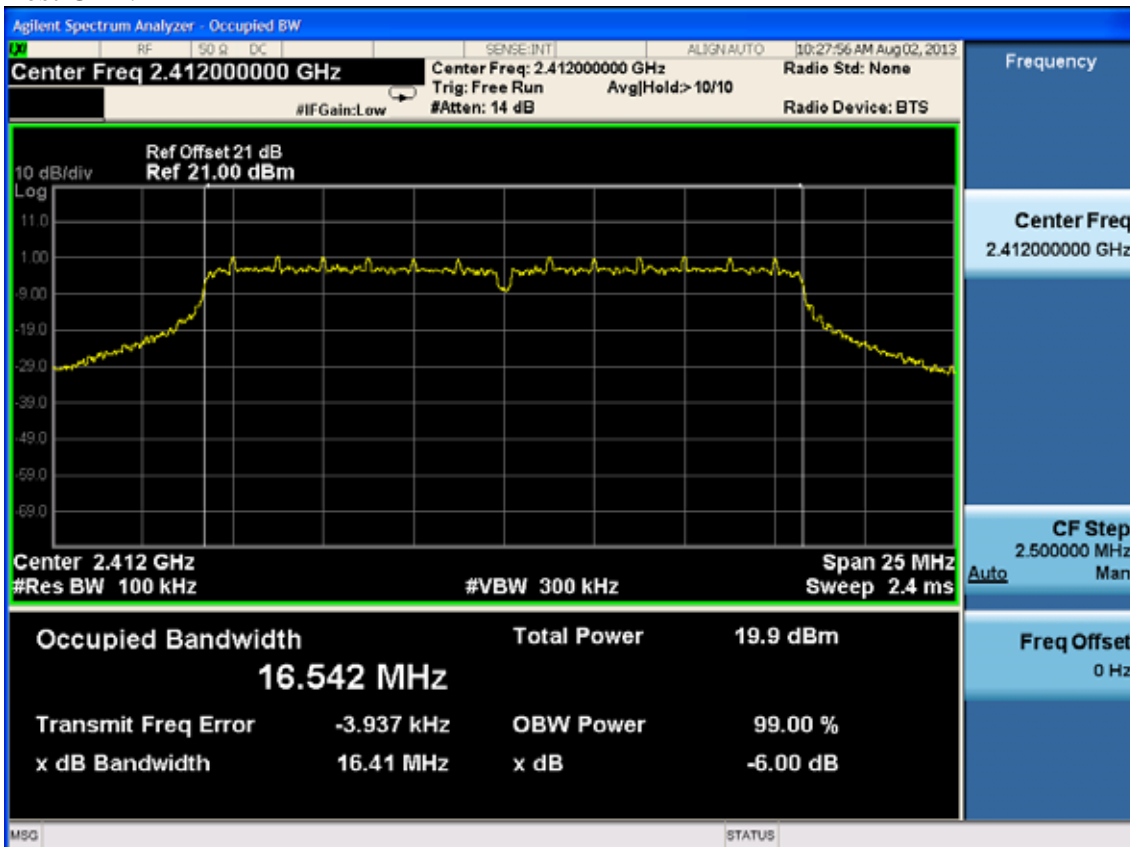


Test CH11: 2462MHz

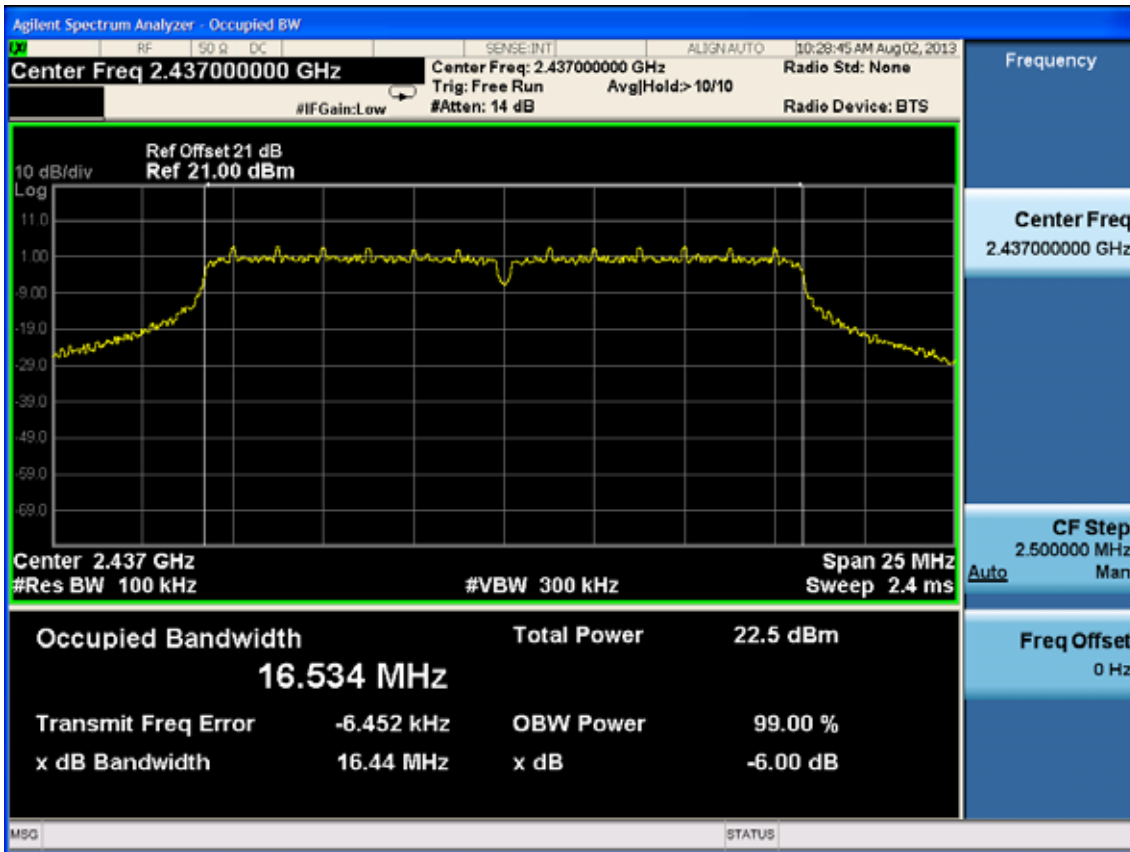


Test Mode: IEEE 802.11g TX

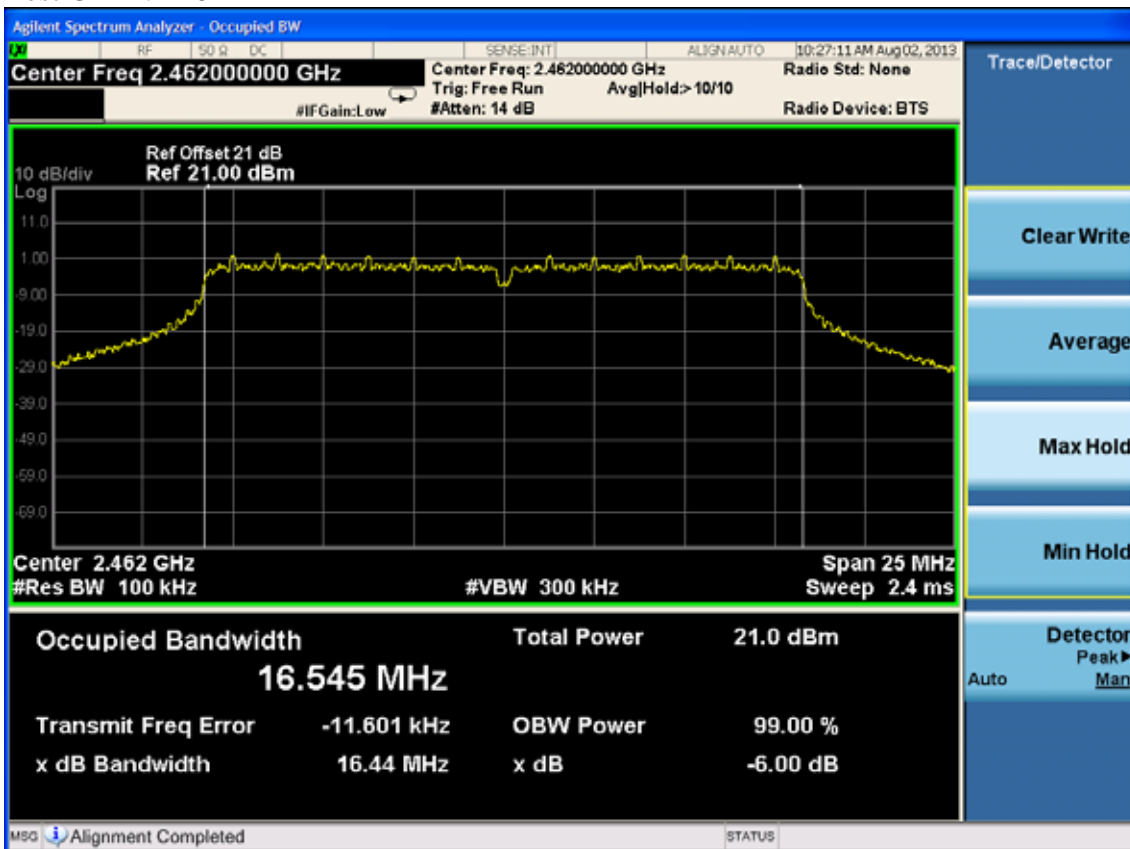
Test CH1: 2412MHz



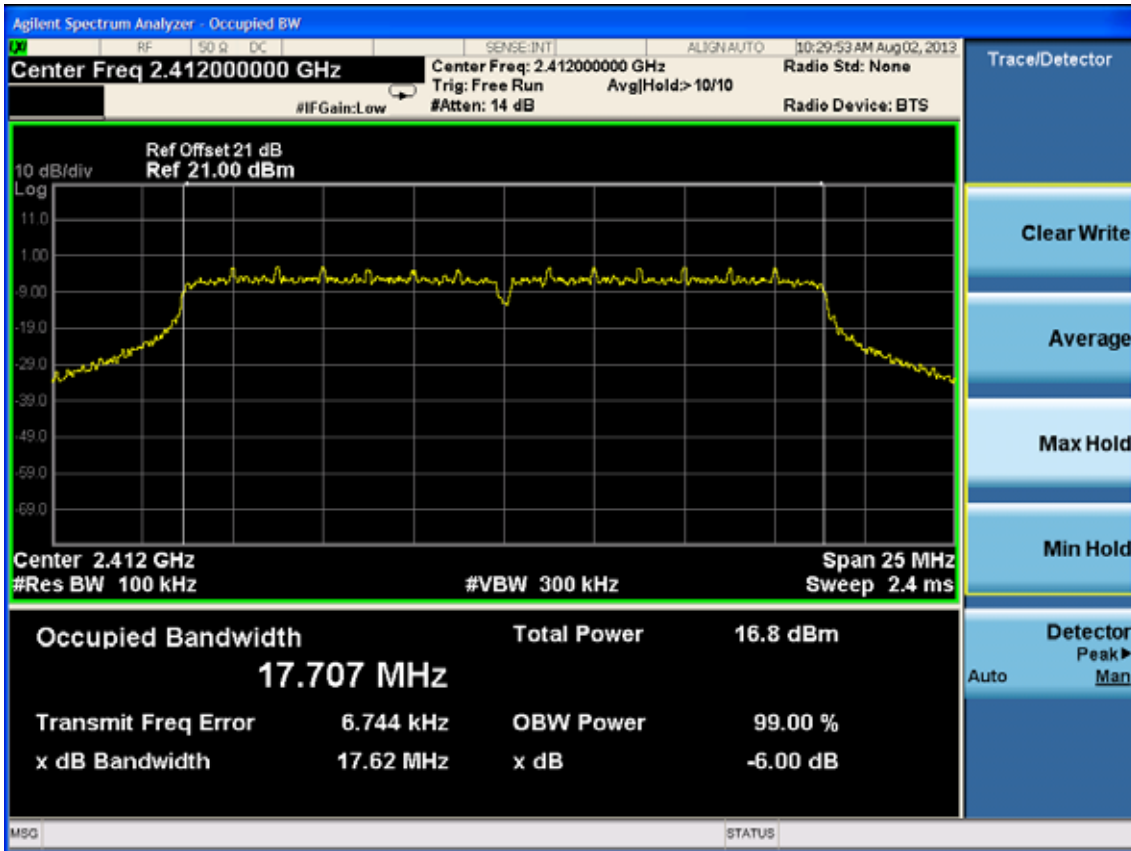
Test CH6: 2437MHz



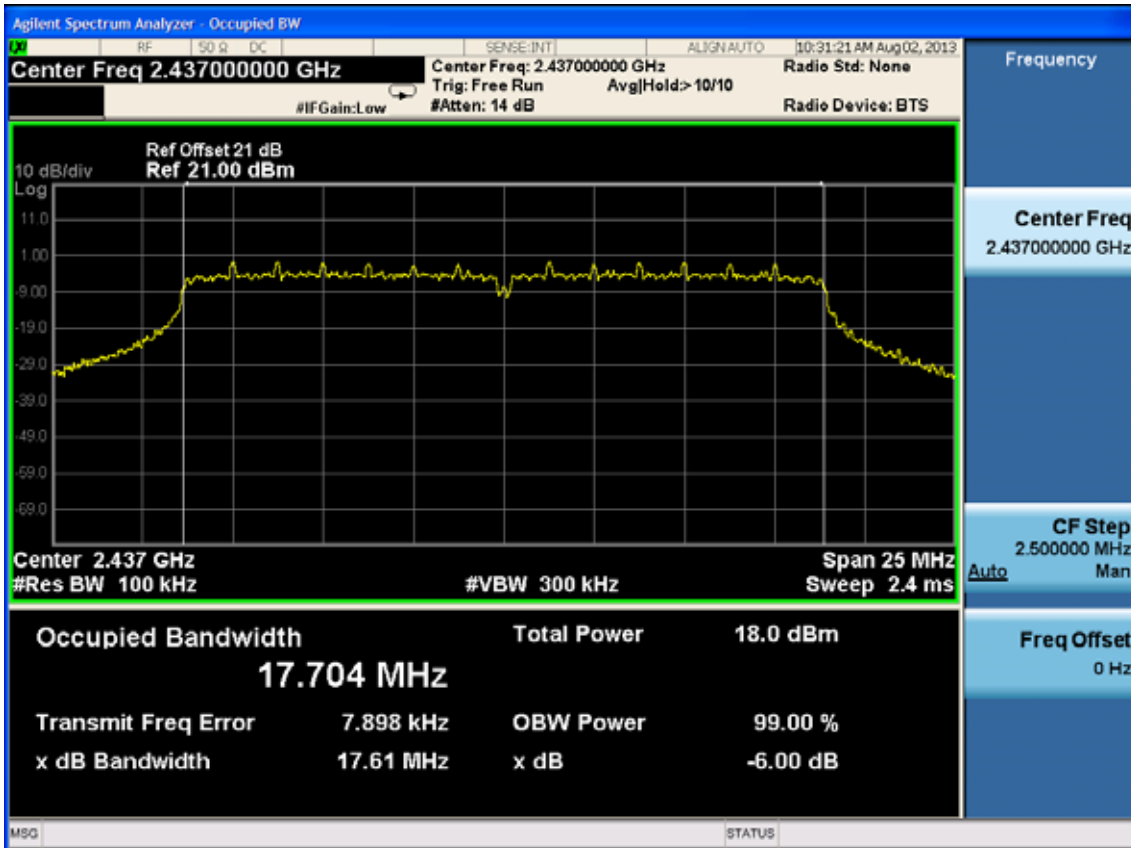
Test CH11: 2462MHz



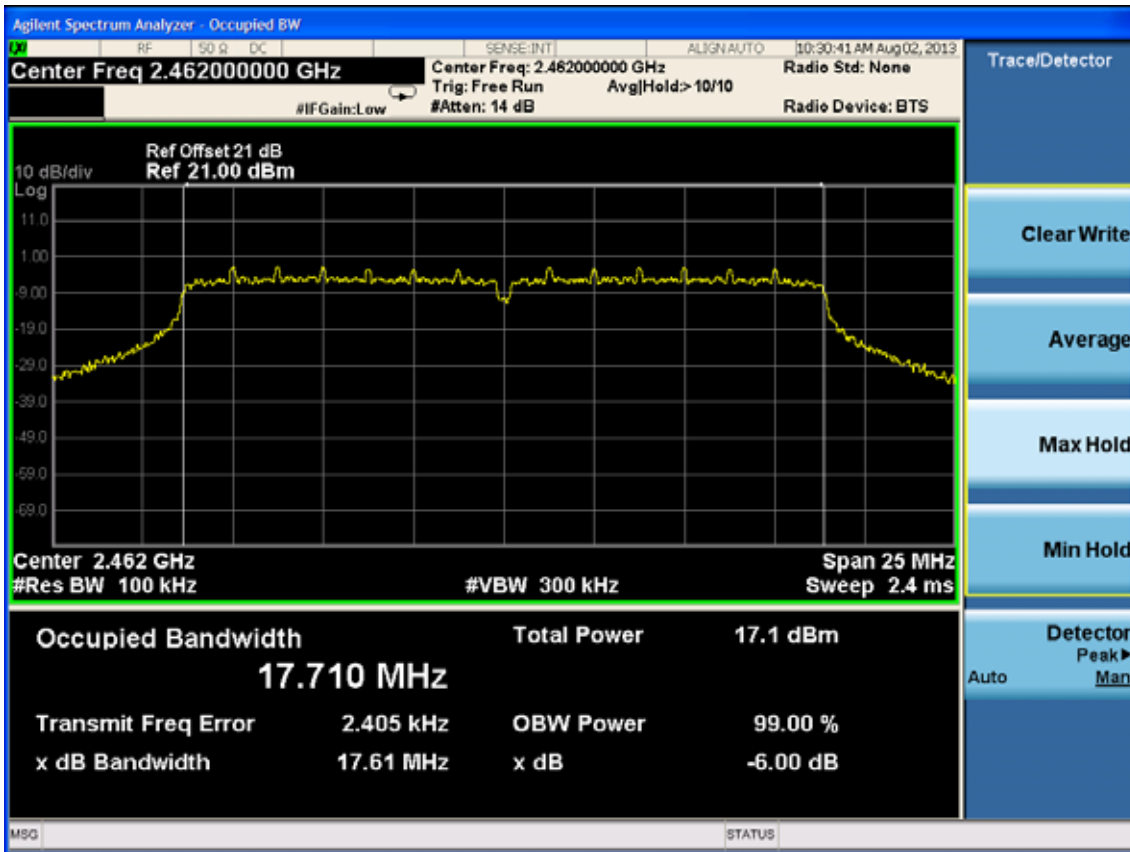
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

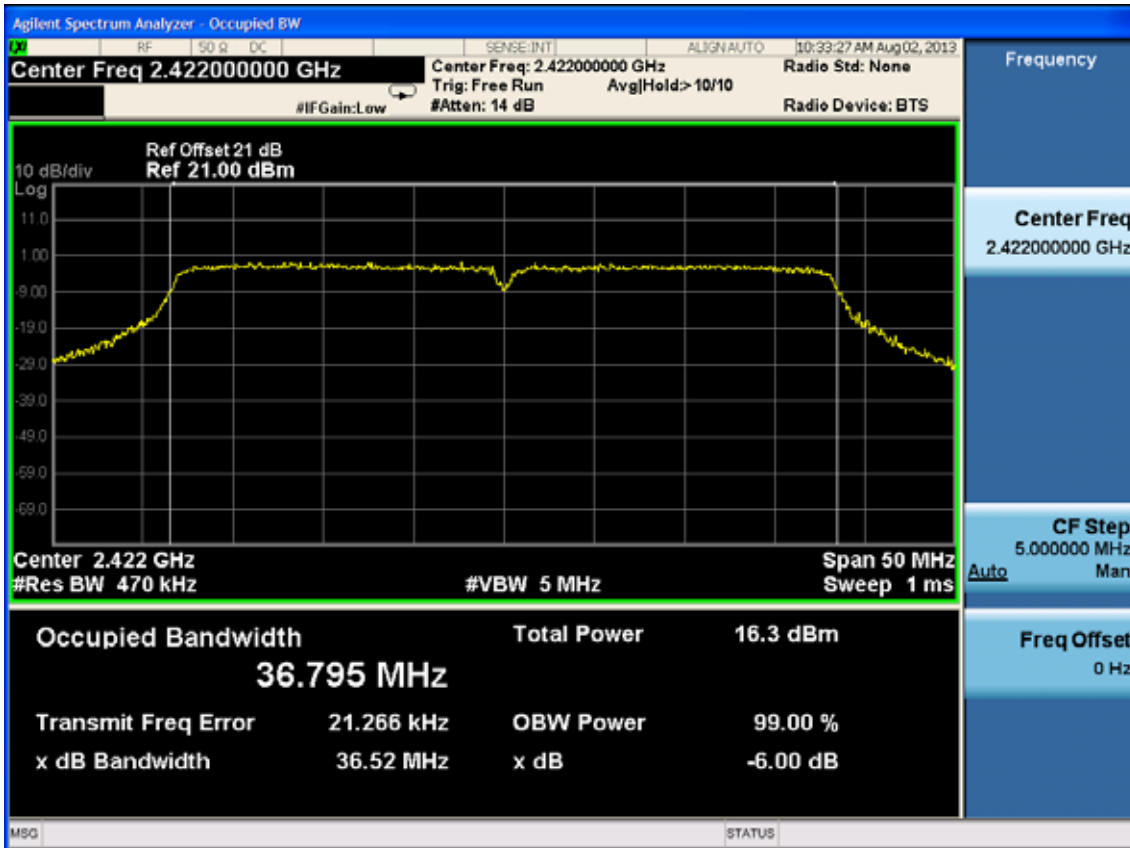


Test CH11: 2462MHz

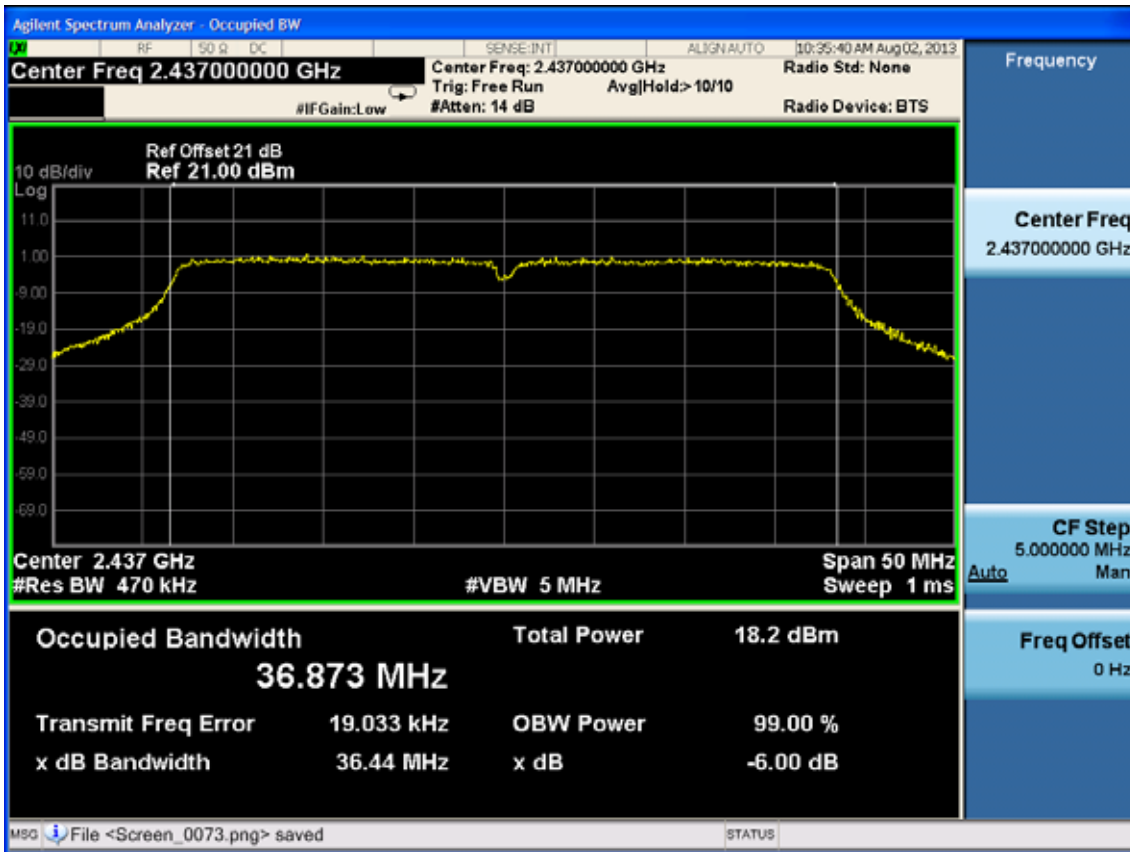


Test Mode: IEEE 802.11n HT40 TX

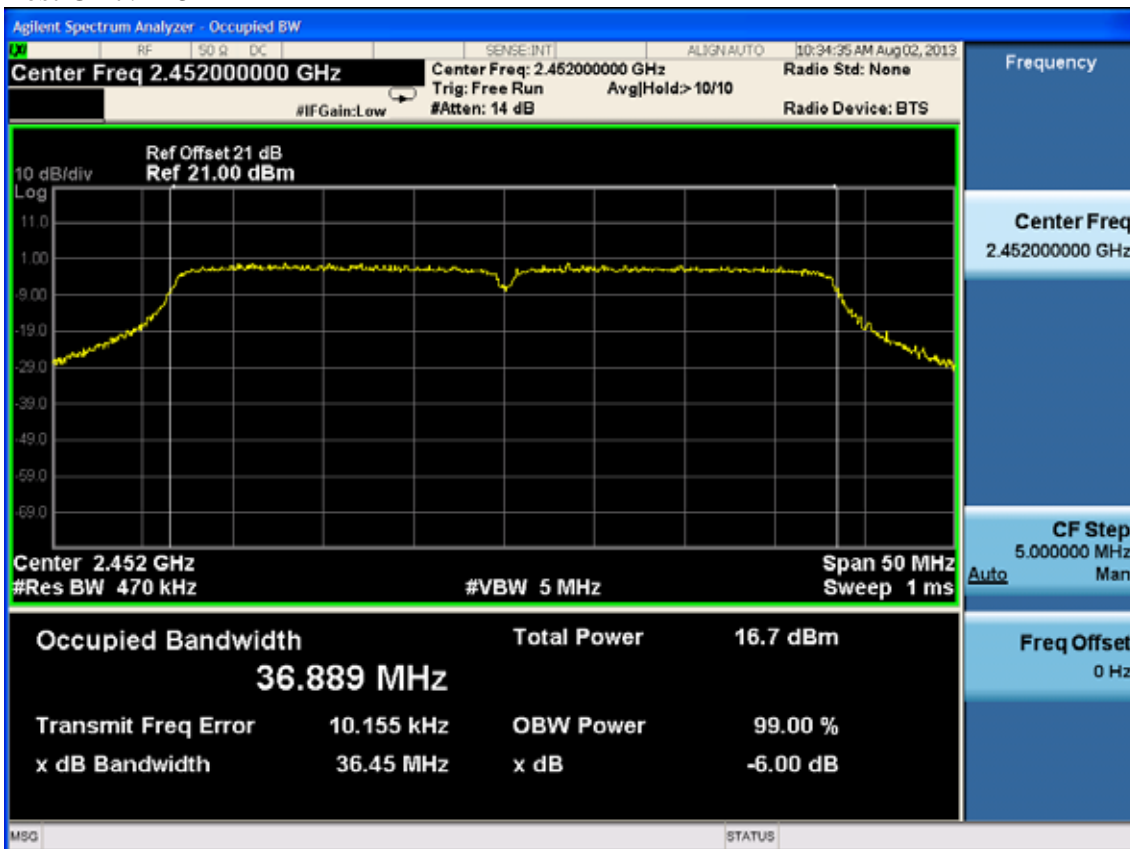
Test CH1: 2422MHz



Test CH4: 2437MHz



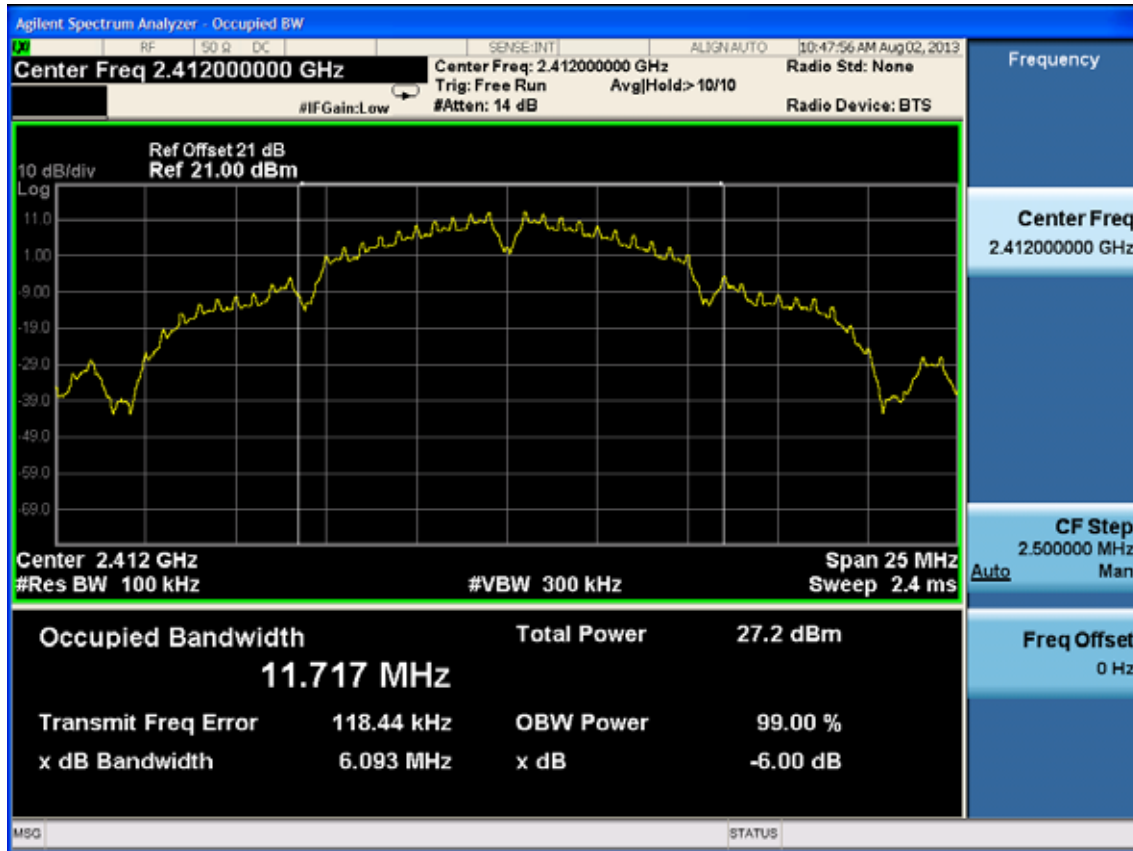
Test CH7: 2452MHz



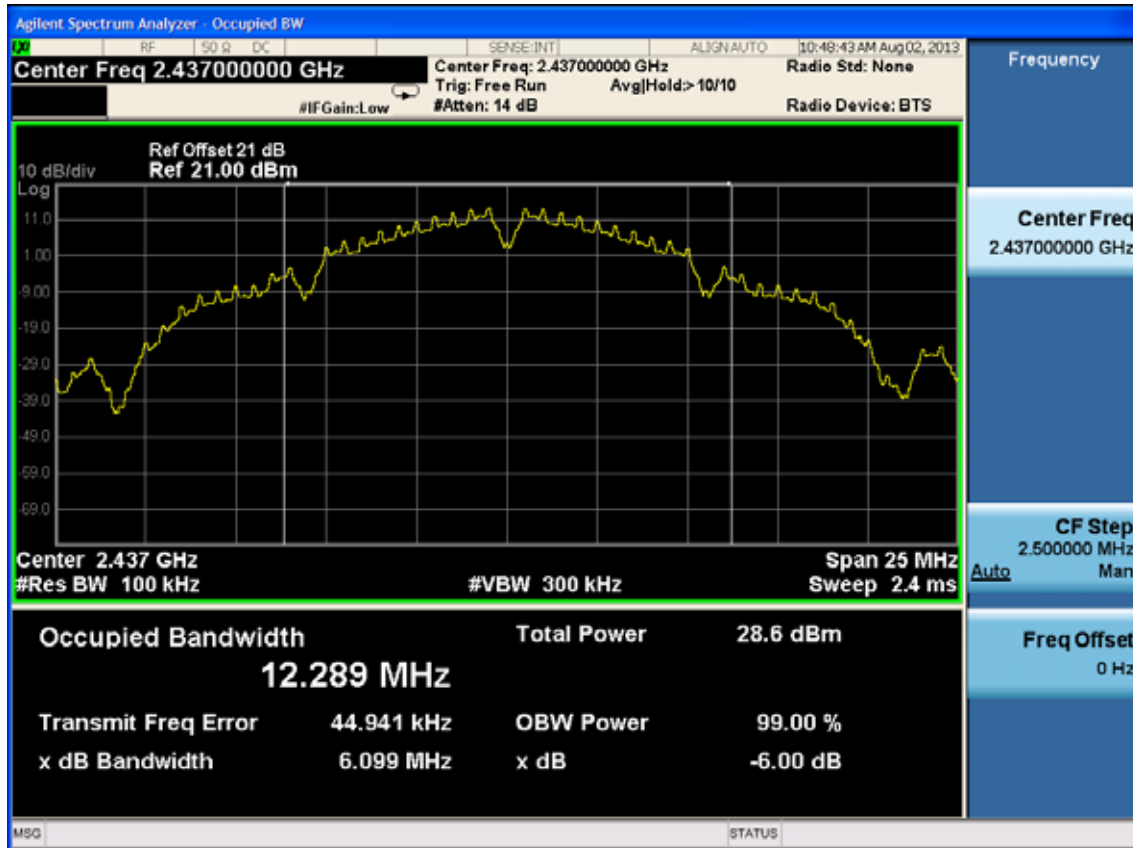
ANT 1

Test Mode: IEEE 802.11b TX

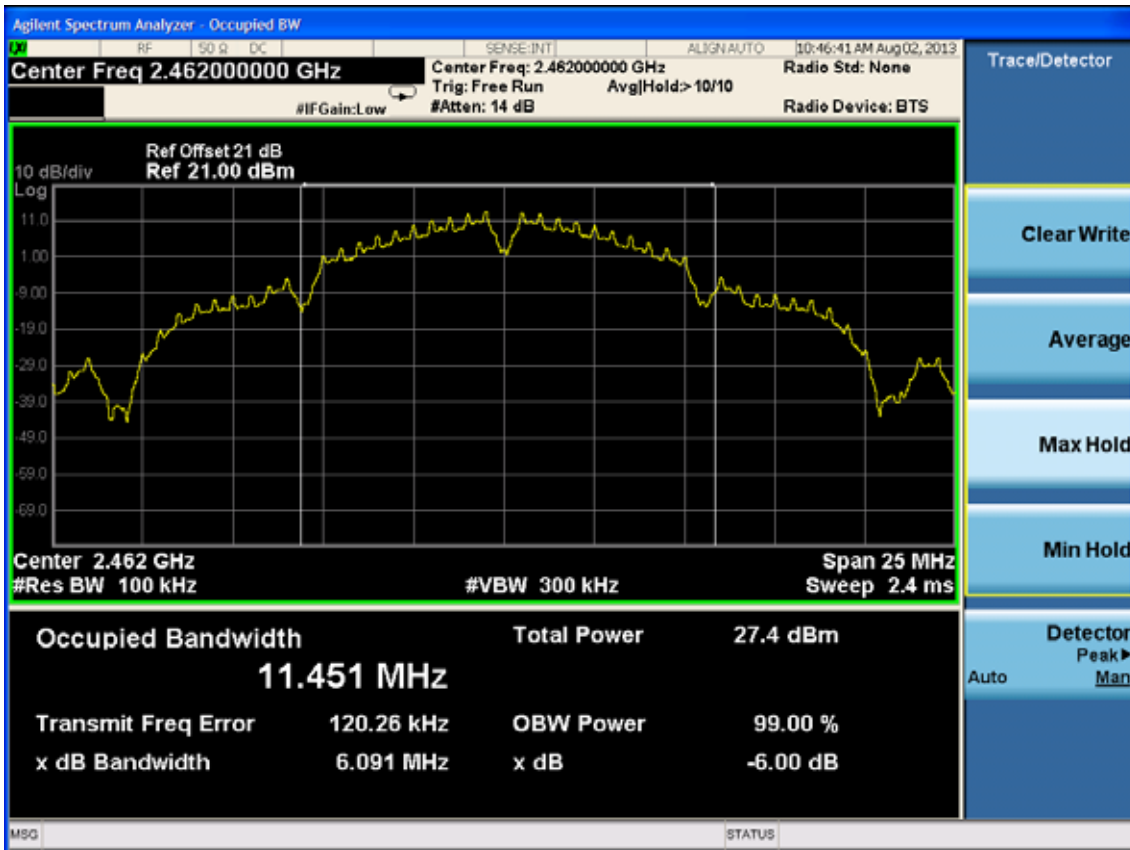
Test CH1: 2412MHz



Test CH6: 2437MHz

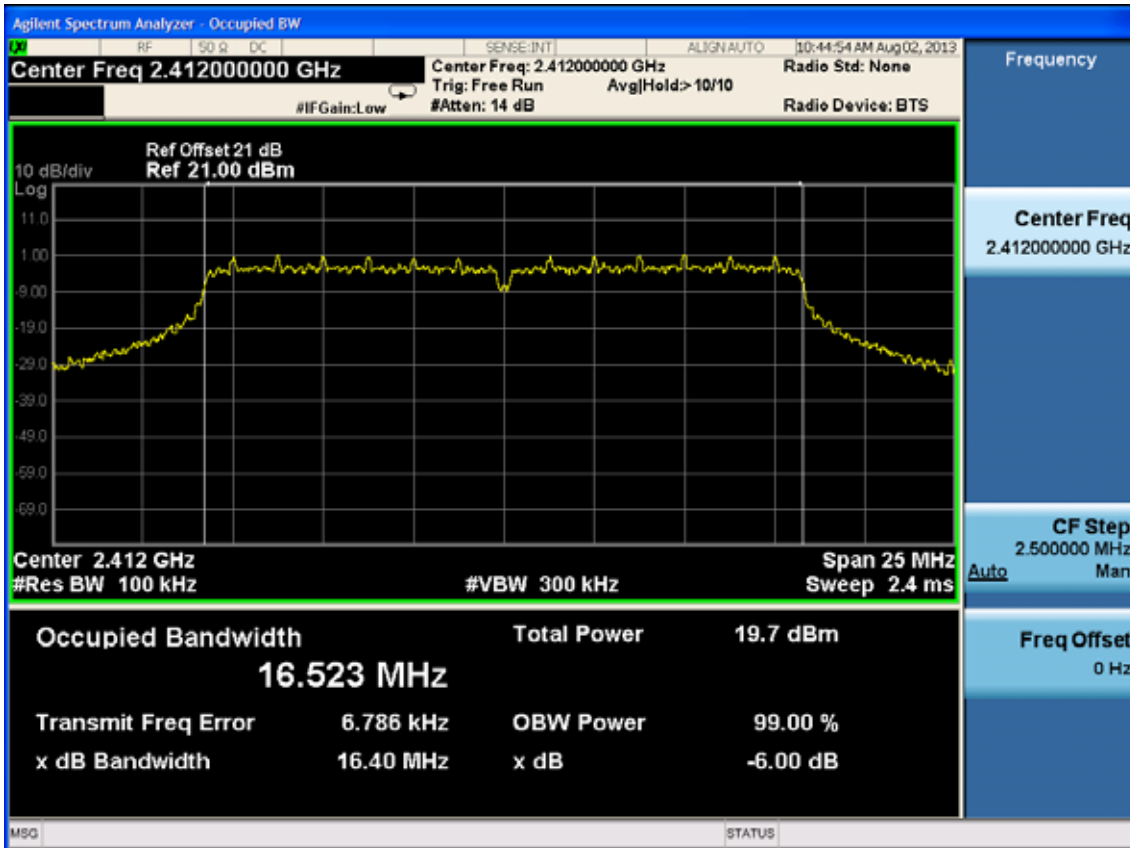


Test CH11: 2462MHz

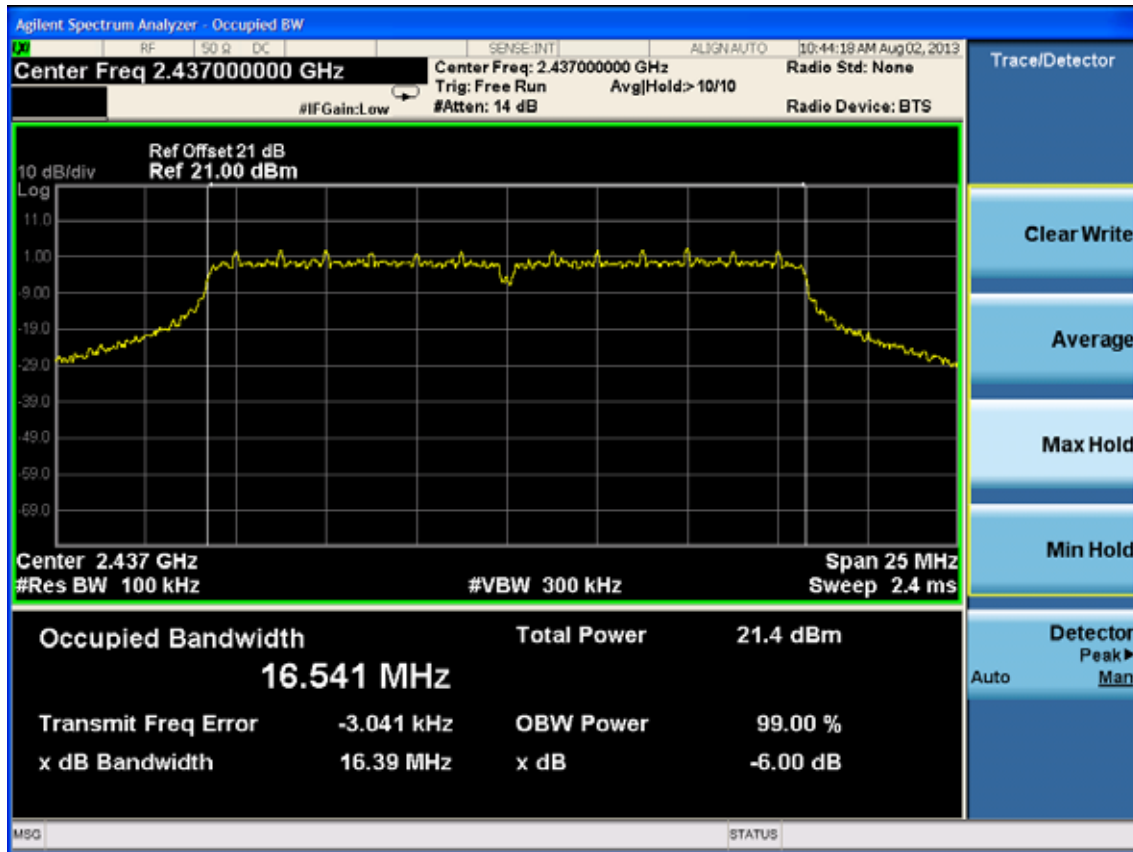


Test Mode: IEEE 802.11g TX

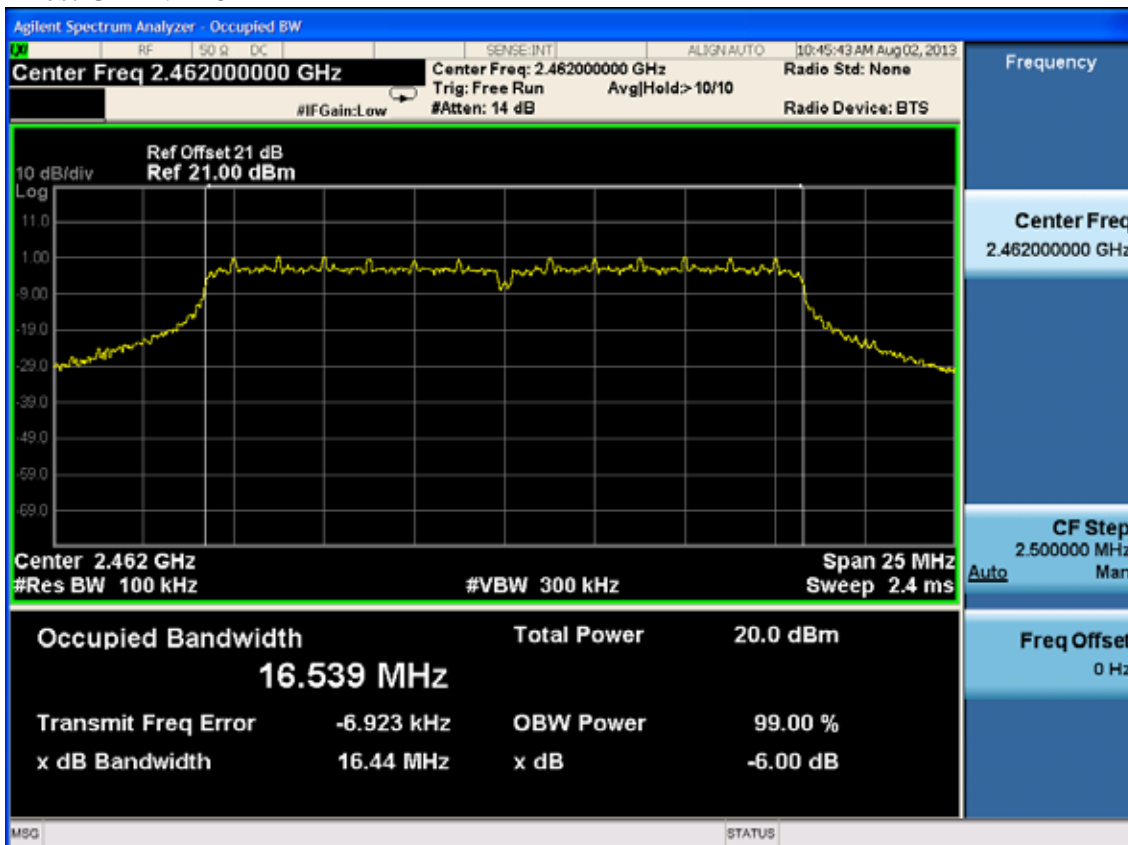
Test CH1: 2412MHz



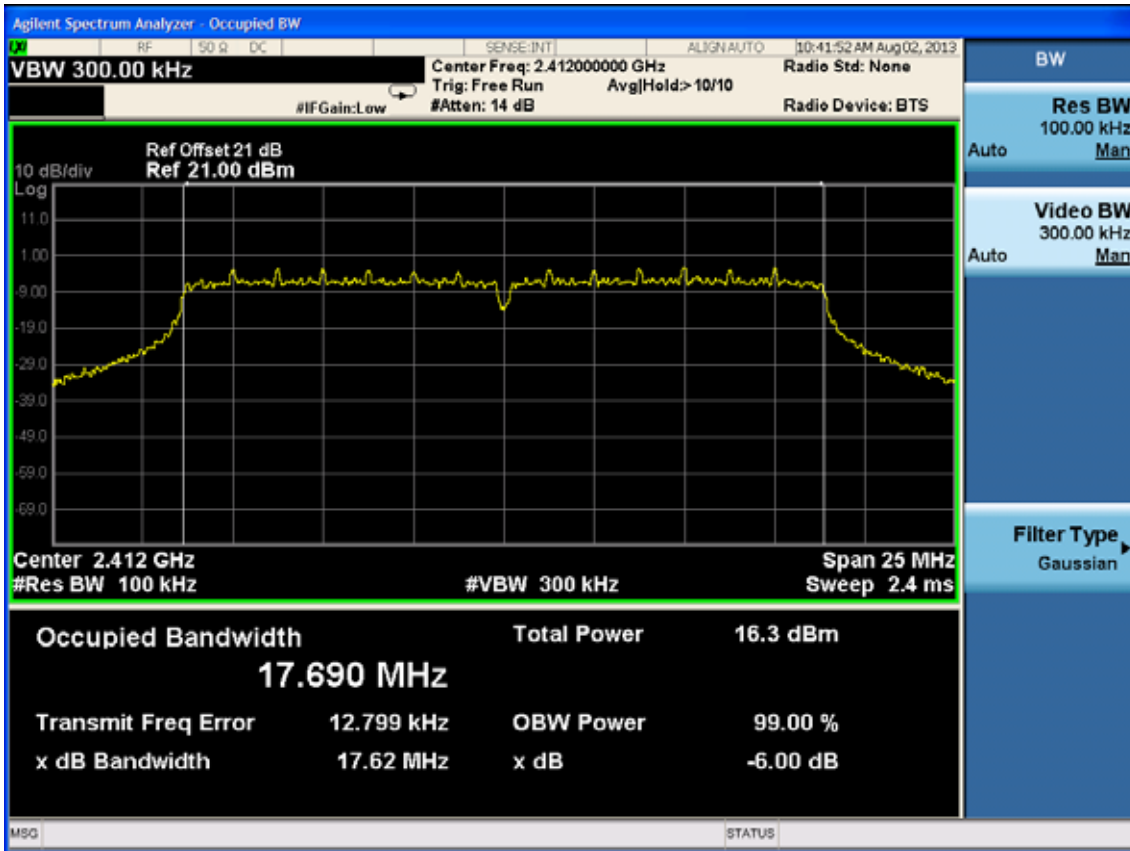
Test CH6: 2437MHz



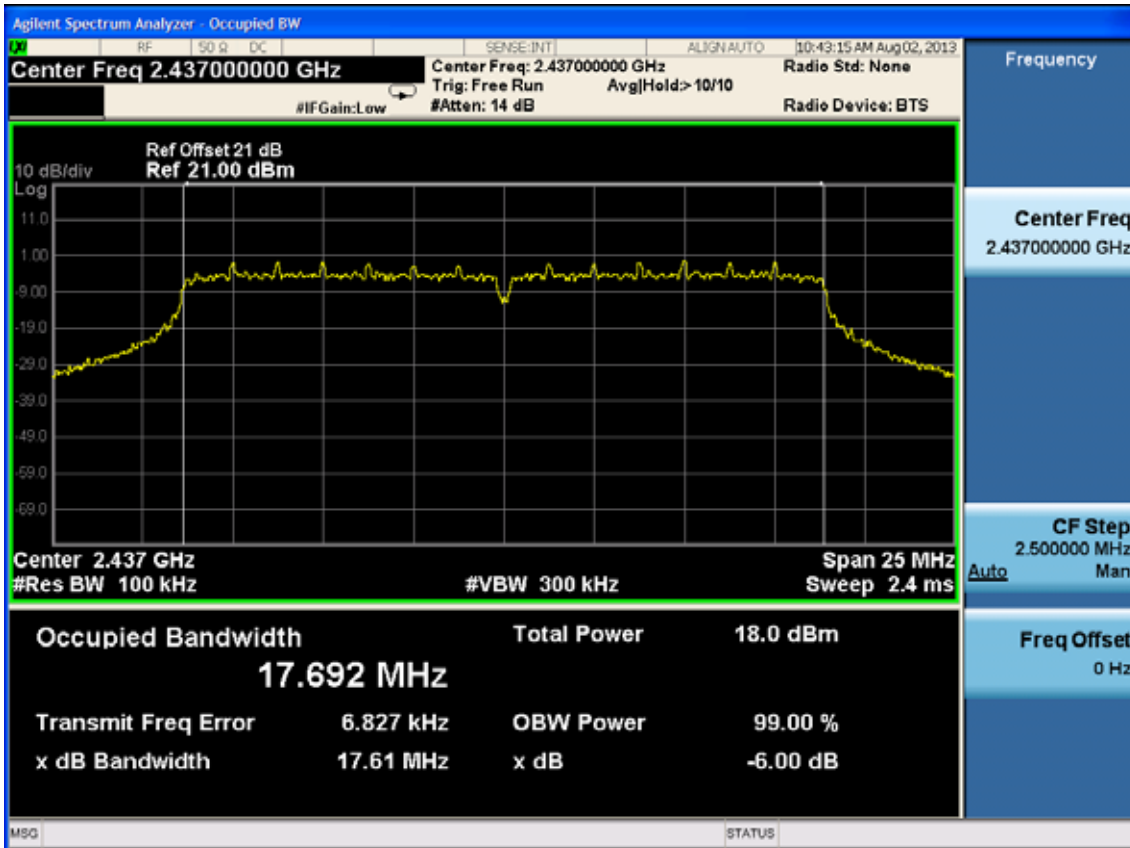
Test CH11: 2462MHz



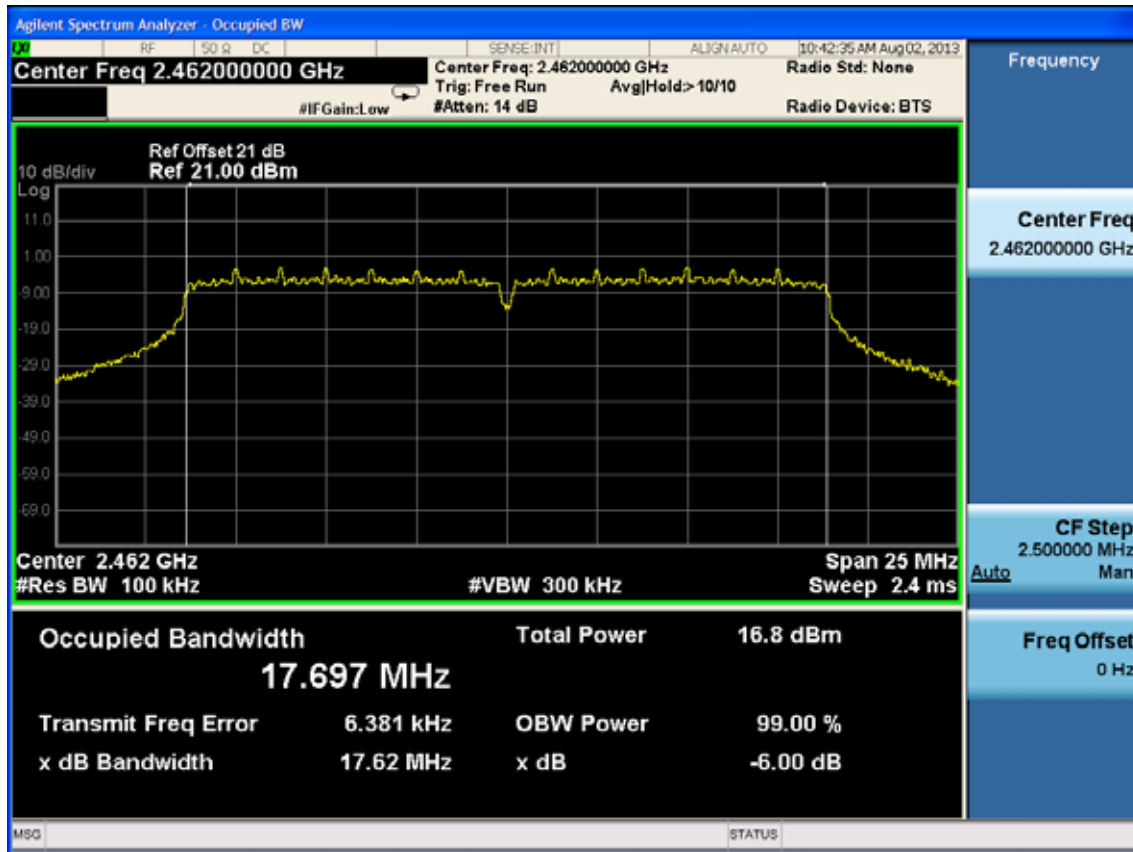
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

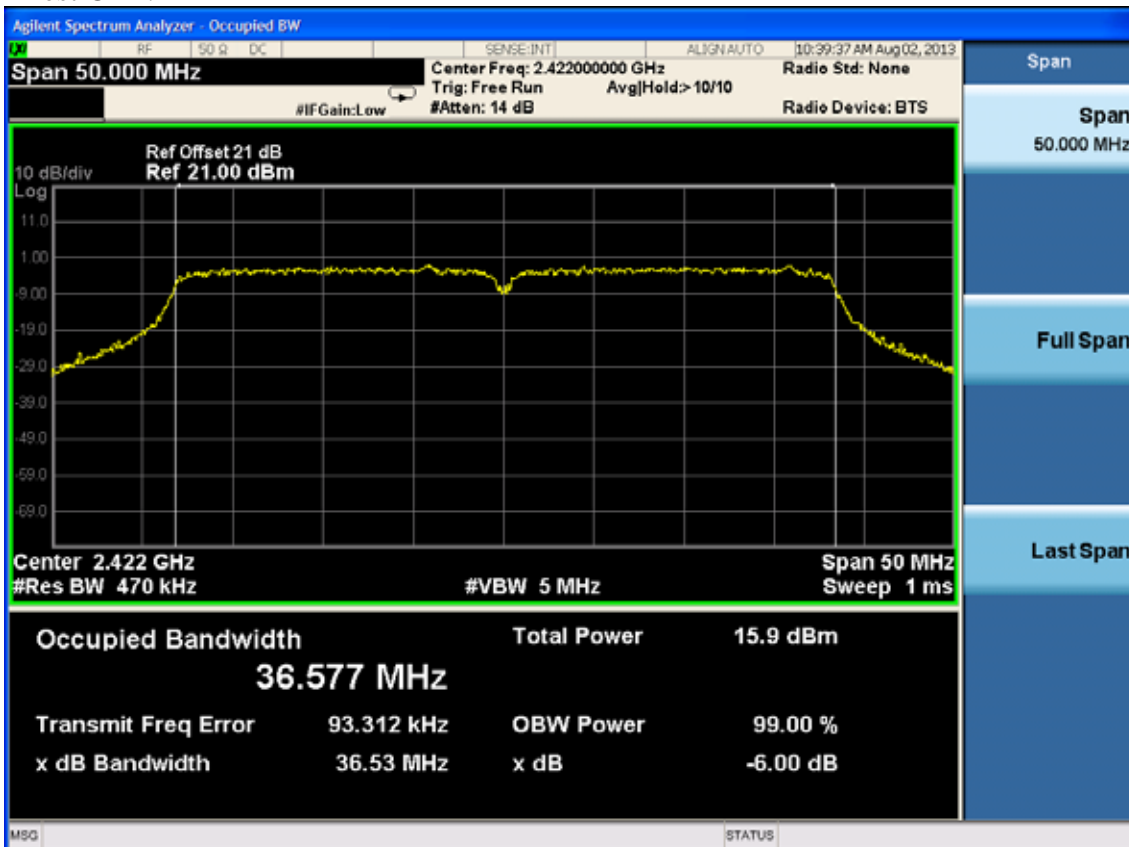


Test CH11: 2462MHz

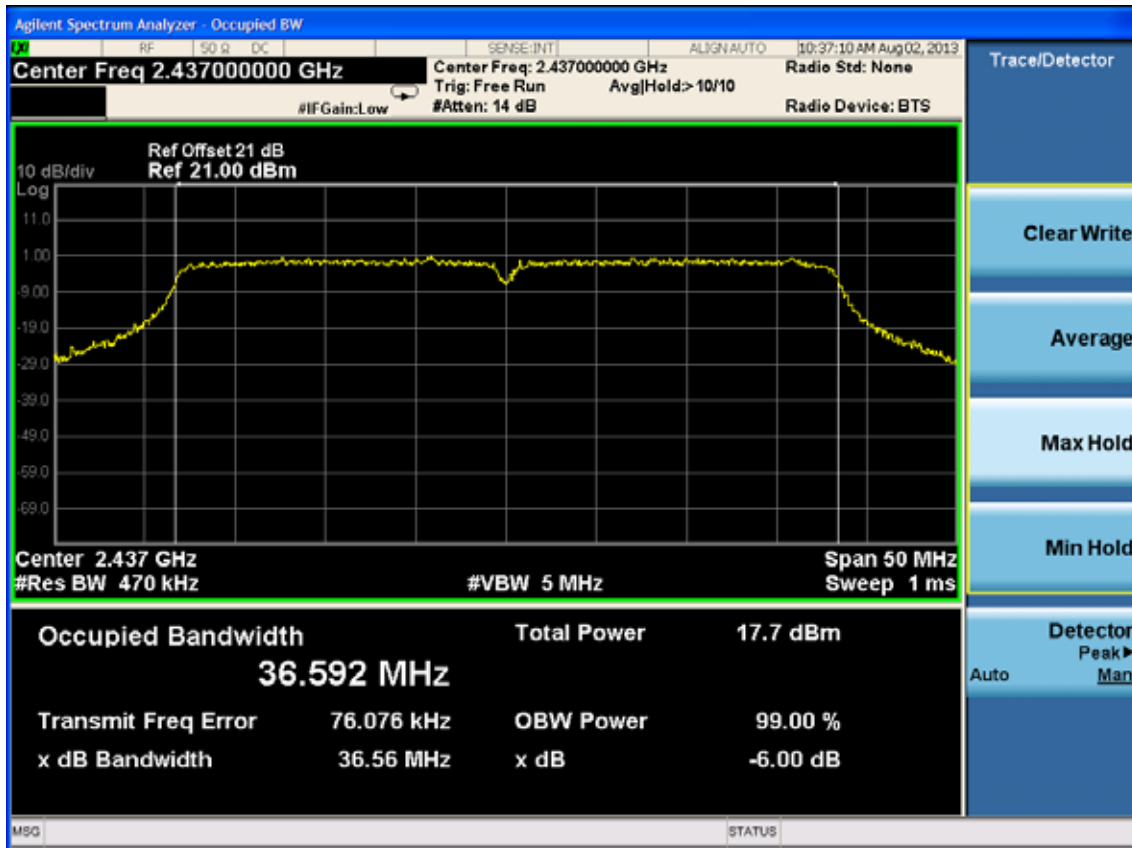


Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz

