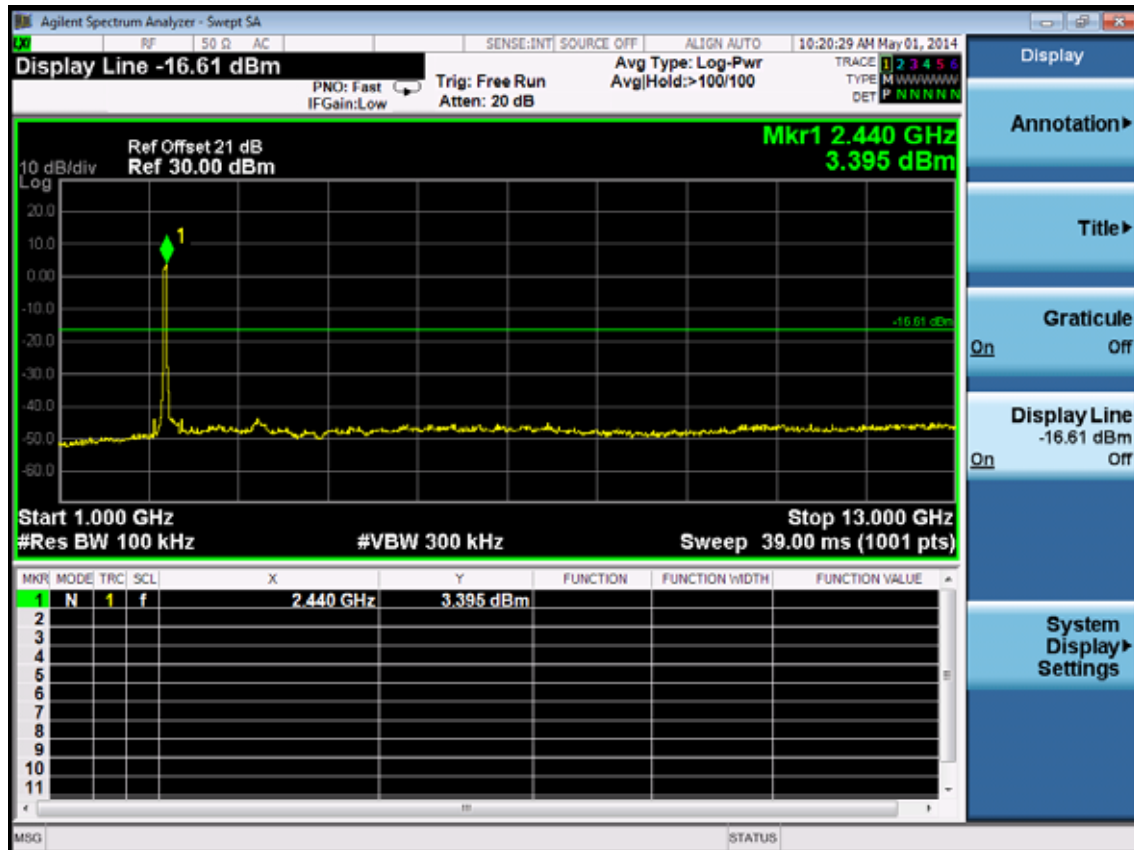
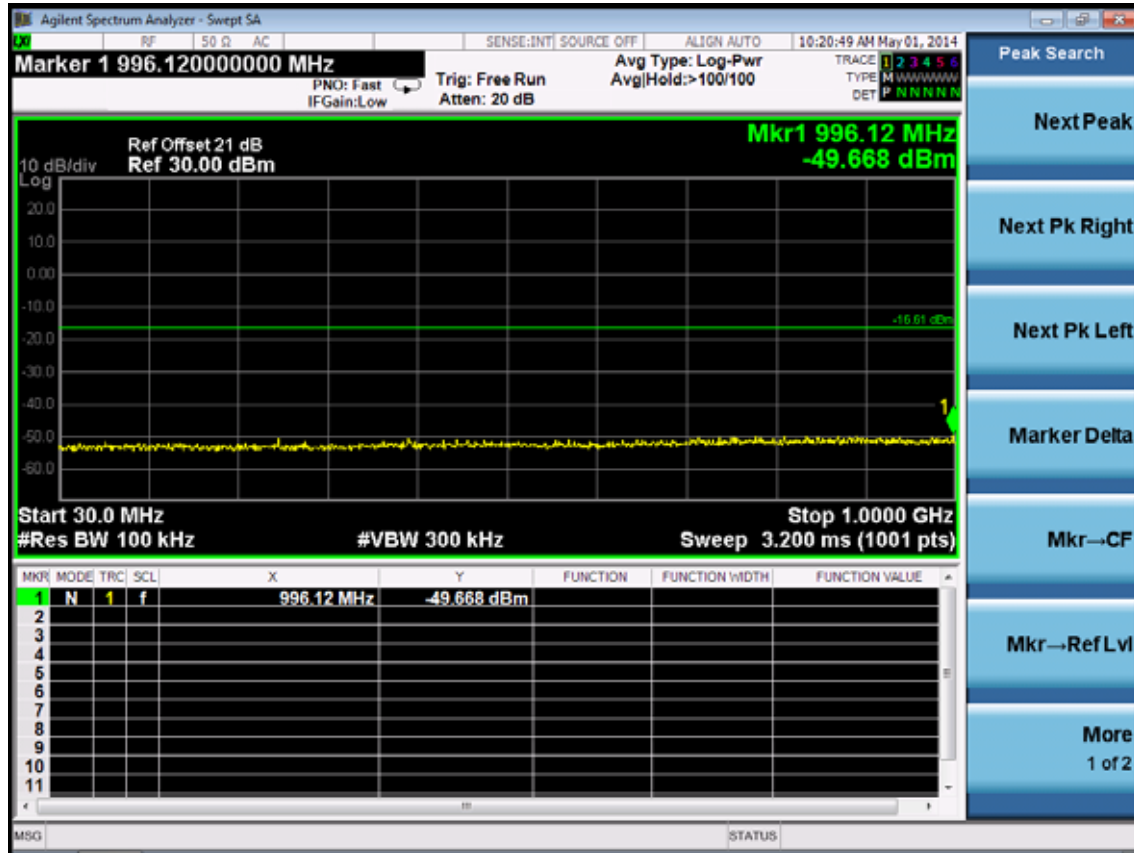
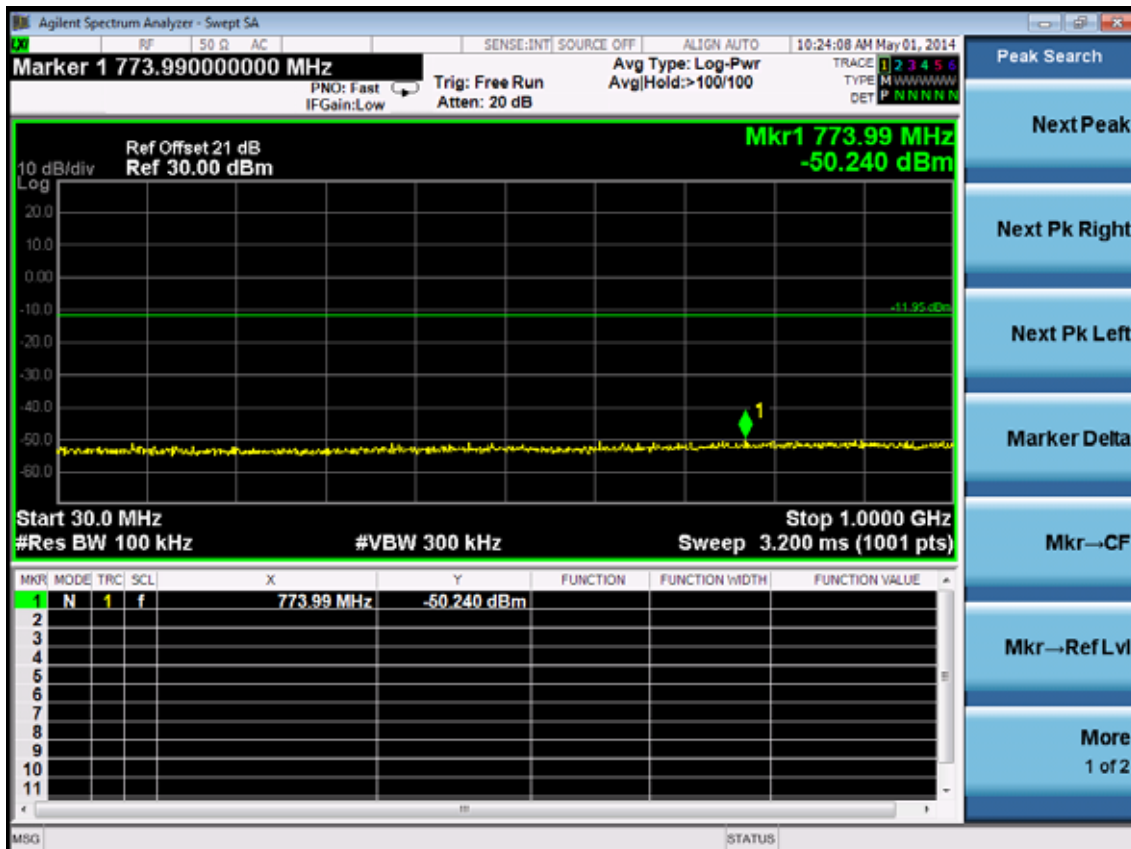
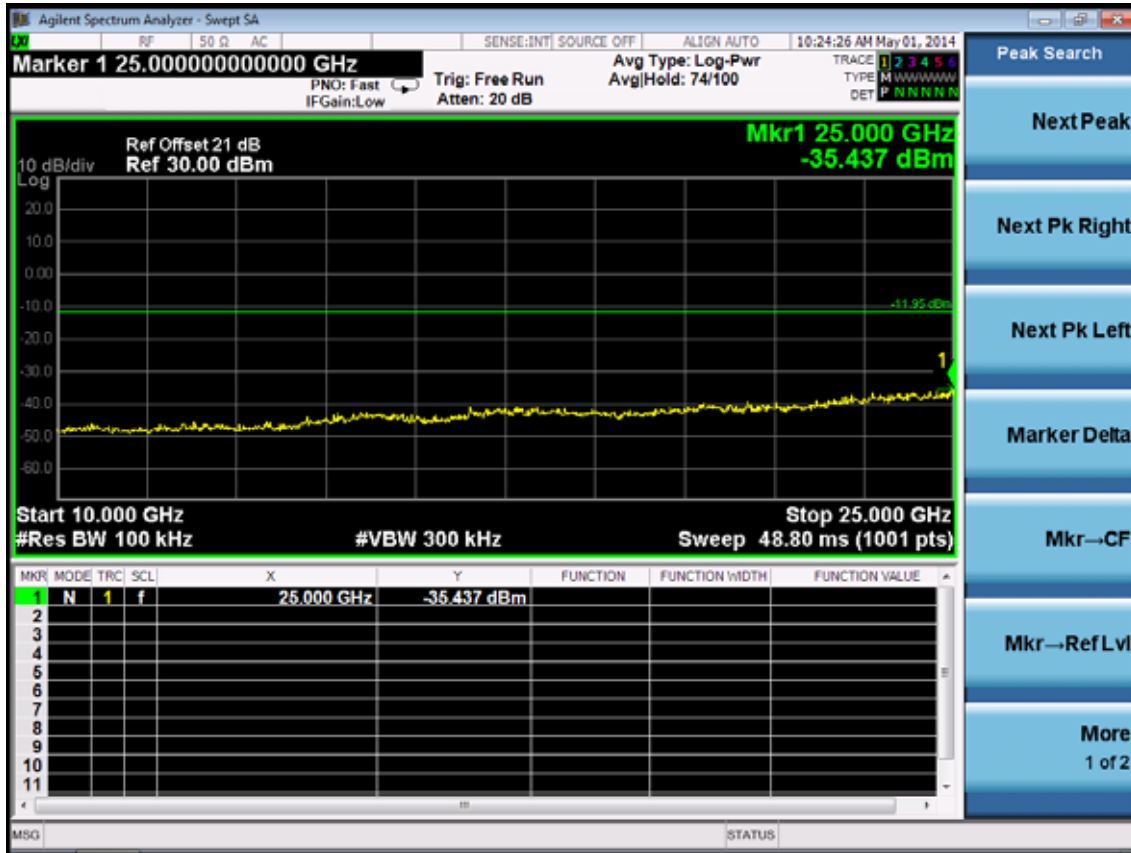
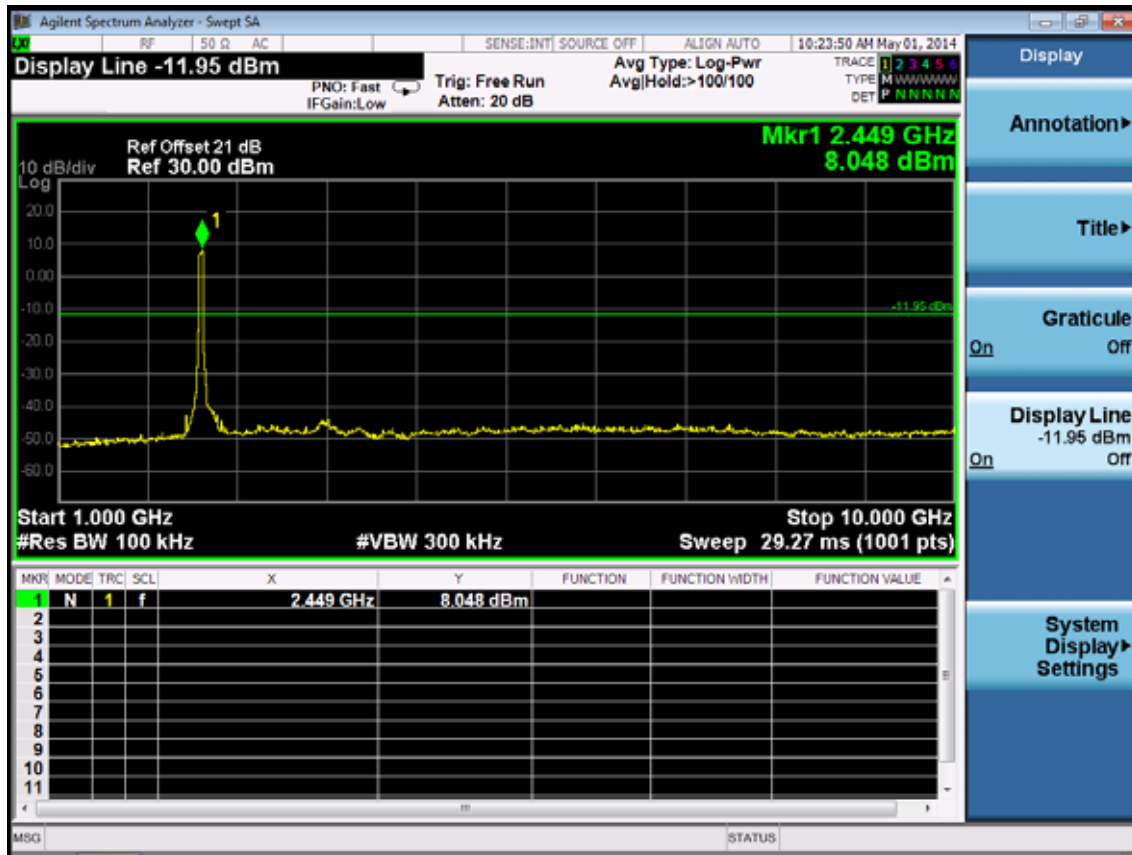


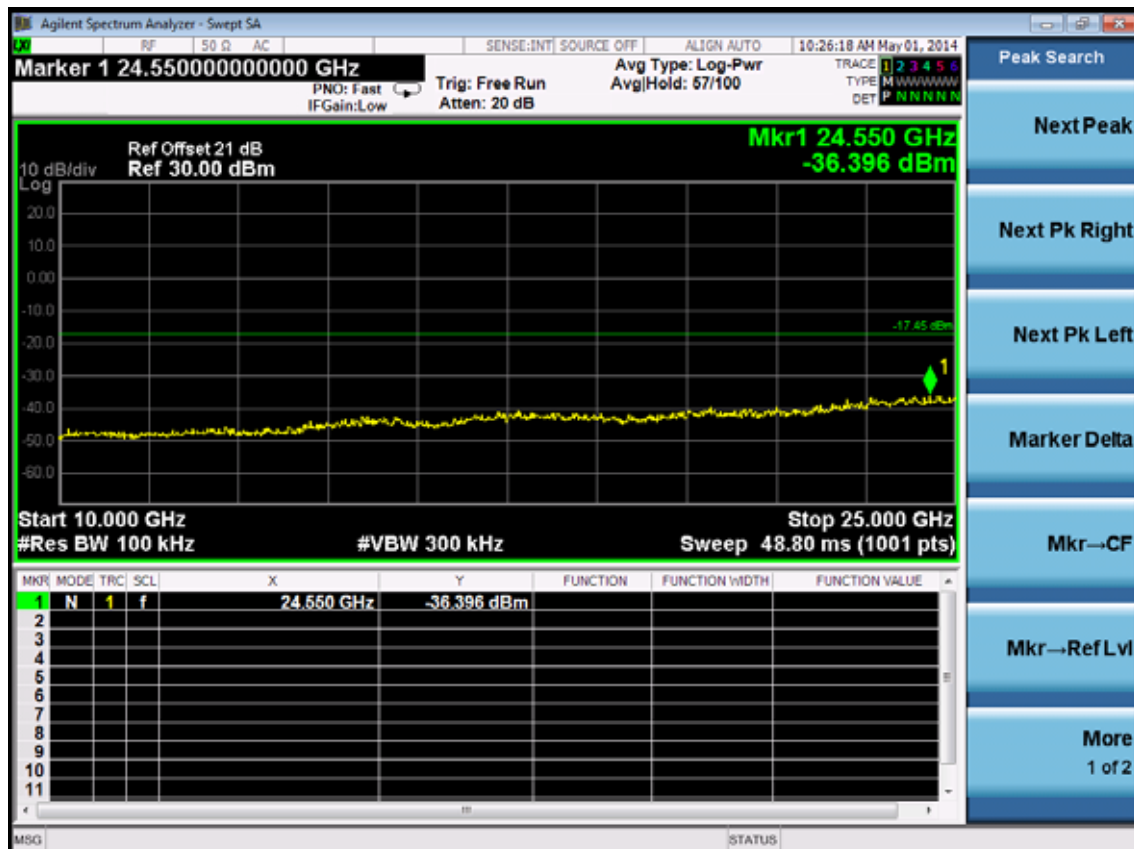
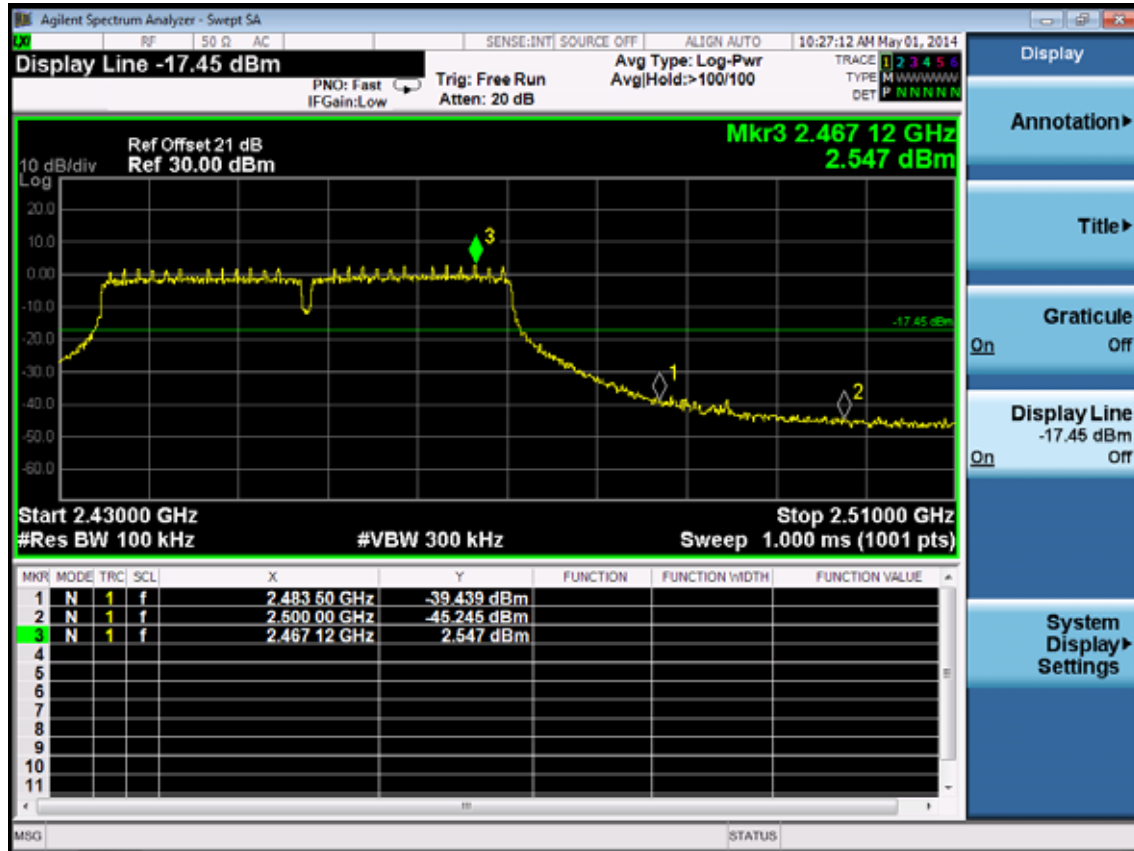


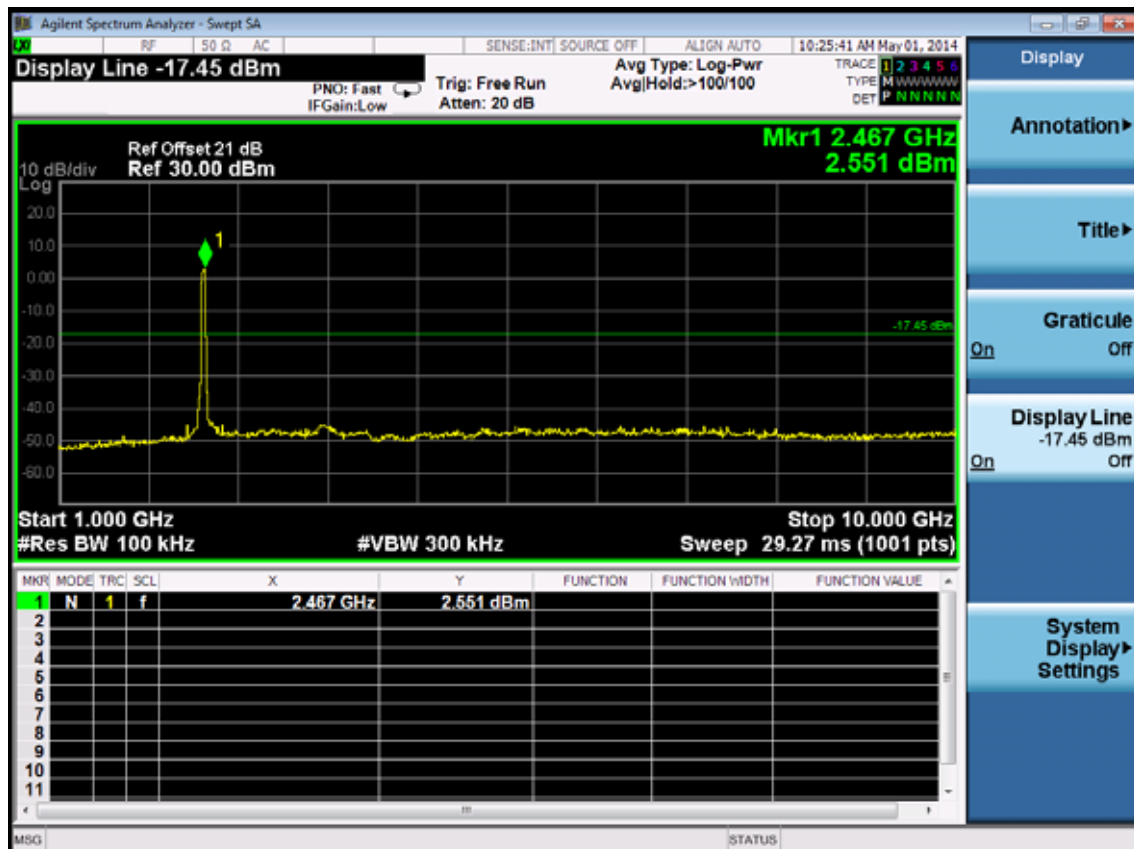
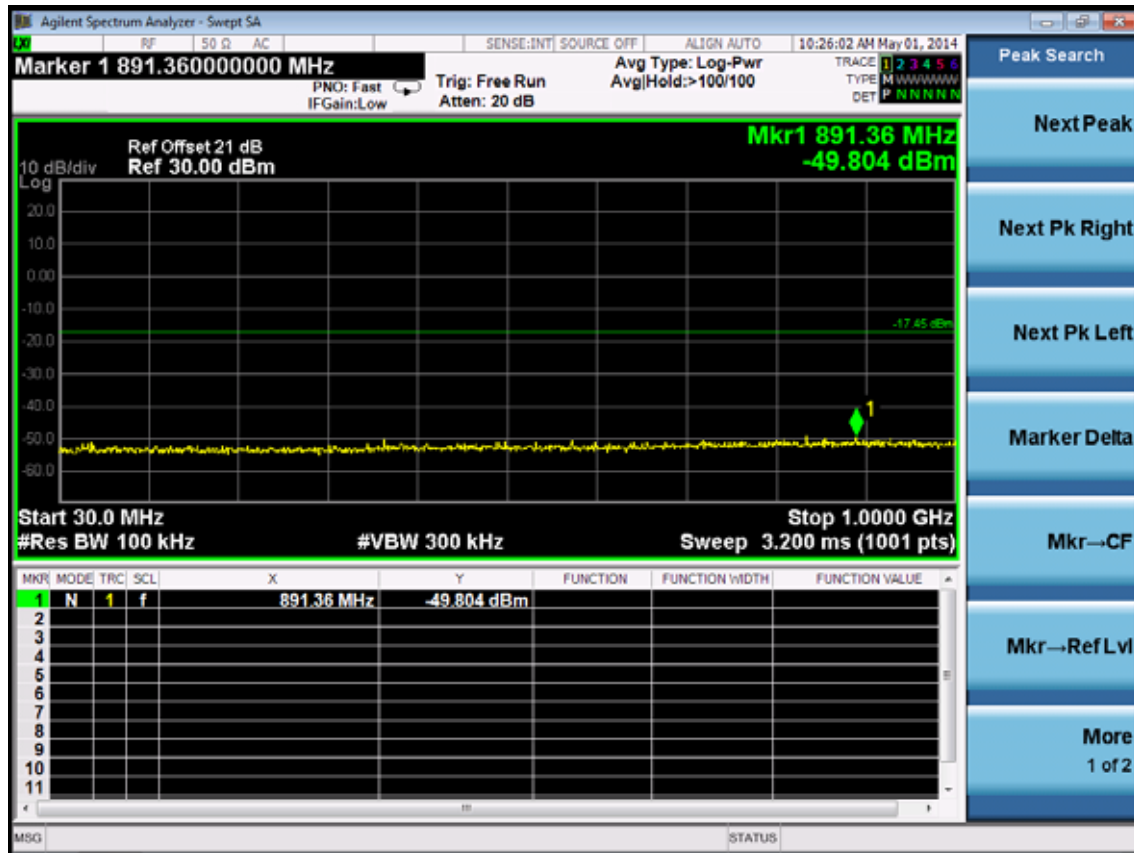
Test CH4: 2437MHz





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 Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4580	May.08, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

6.2. Limit

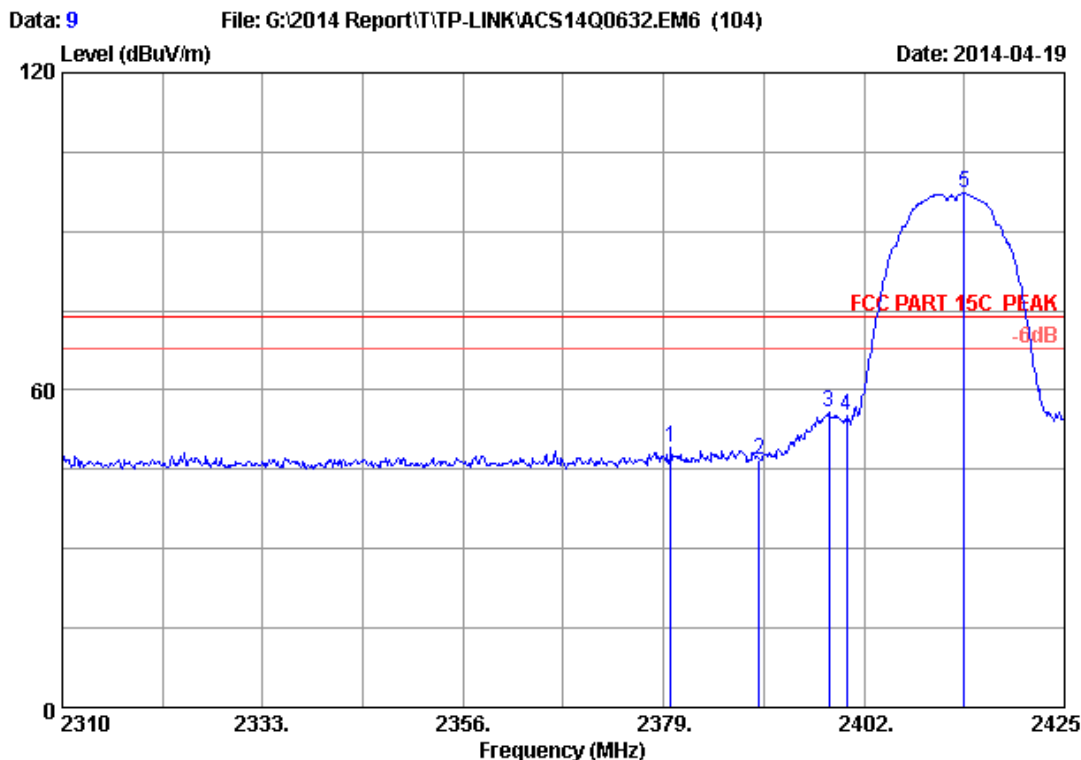
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

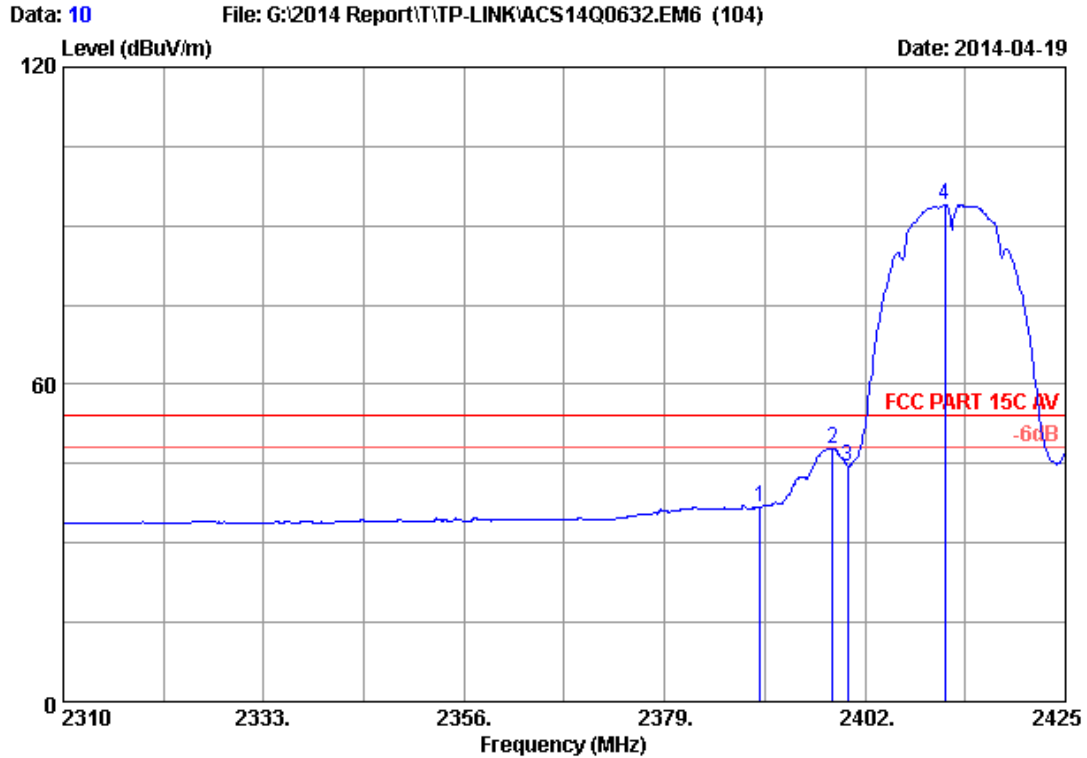
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	2379.805	28.14	5.77	35.70	50.79	49.00	74.00	25.00	Peak
2	2390.000	28.16	5.78	35.70	48.71	46.95	74.00	27.05	Peak
3	2397.975	28.18	5.79	35.70	57.61	55.88	74.00	18.12	Peak
4	2400.000	28.18	5.80	35.70	56.71	54.99	74.00	19.01	Peak
5	2413.500	28.21	5.82	35.70	98.88	97.21	74.00	-23.21	Peak

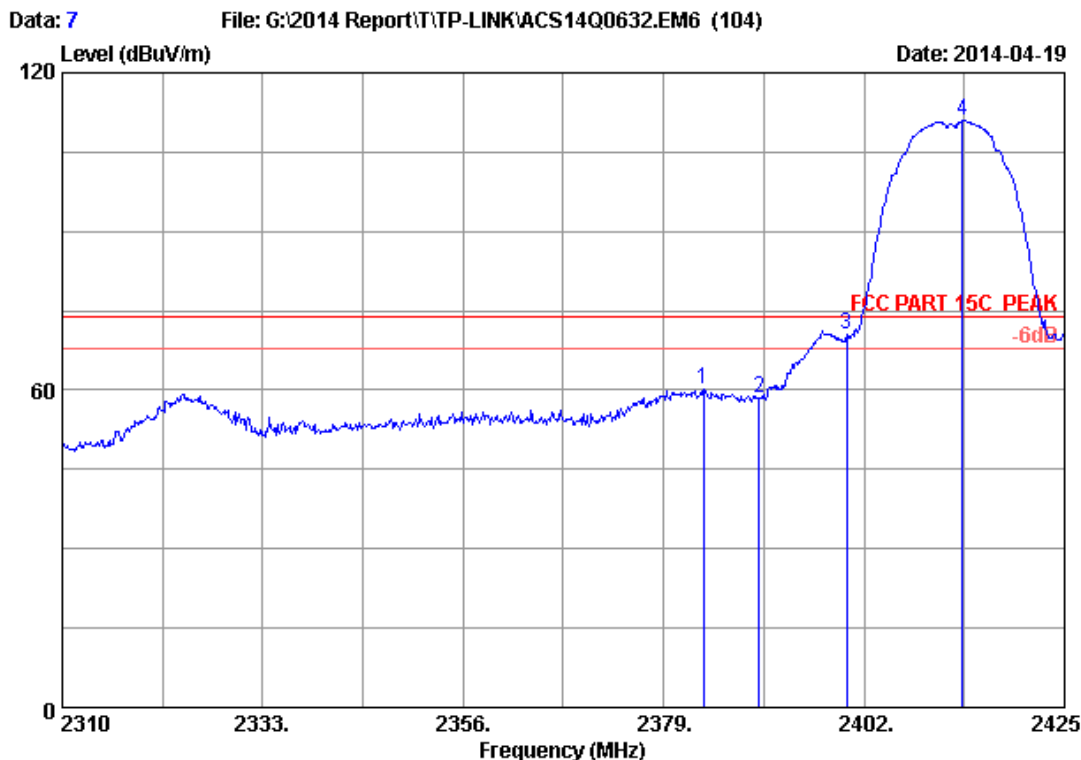
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2390.000	28.16	5.78	35.70	38.46	36.70	54.00	17.30	Average	
2	2398.320	28.18	5.79	35.70	49.66	47.93	54.00	6.07	Average	
3	2400.000	28.18	5.80	35.70	46.18	44.46	54.00	9.54	Average	
4	2411.200	28.20	5.81	35.70	95.67	93.98	54.00	-39.98	Average	

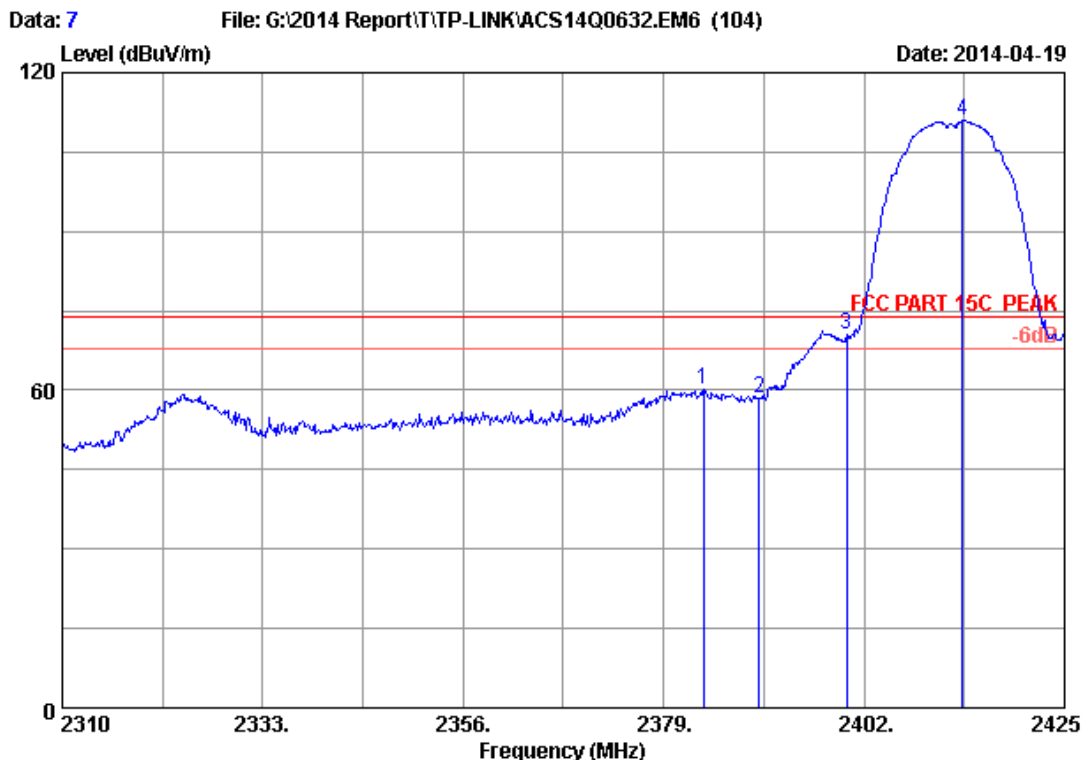
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	2383.600	28.14	5.77	35.70	61.92	60.13	74.00	13.87	Peak
2	2390.000	28.16	5.78	35.70	60.27	58.51	74.00	15.49	Peak
3	2400.000	28.18	5.80	35.70	72.28	70.56	74.00	3.44	Peak
4	2413.270	28.21	5.82	35.70	112.60	110.93	74.00	-36.93	Peak

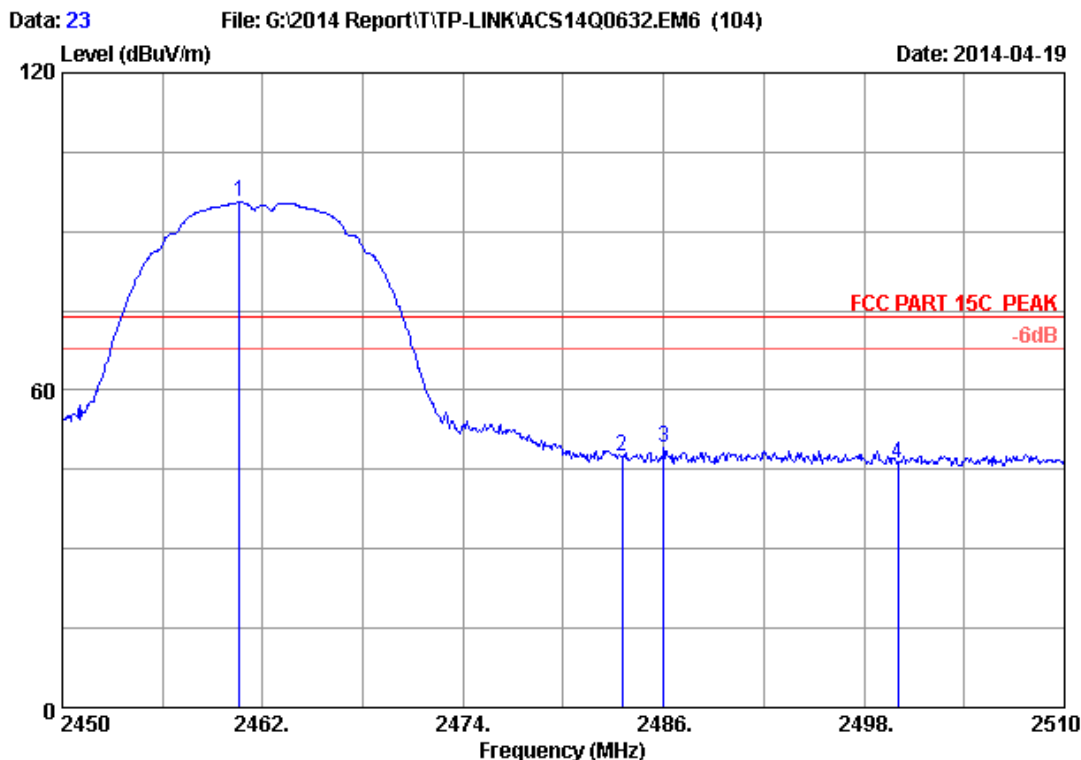
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 7
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2383.600	28.14	5.77	35.70	61.92	60.13	74.00	13.87	Peak	
2	2390.000	28.16	5.78	35.70	60.27	58.51	74.00	15.49	Peak	
3	2400.000	28.18	5.80	35.70	72.28	70.56	74.00	3.44	Peak	
4	2413.270	28.21	5.82	35.70	112.60	110.93	74.00	-36.93	Peak	

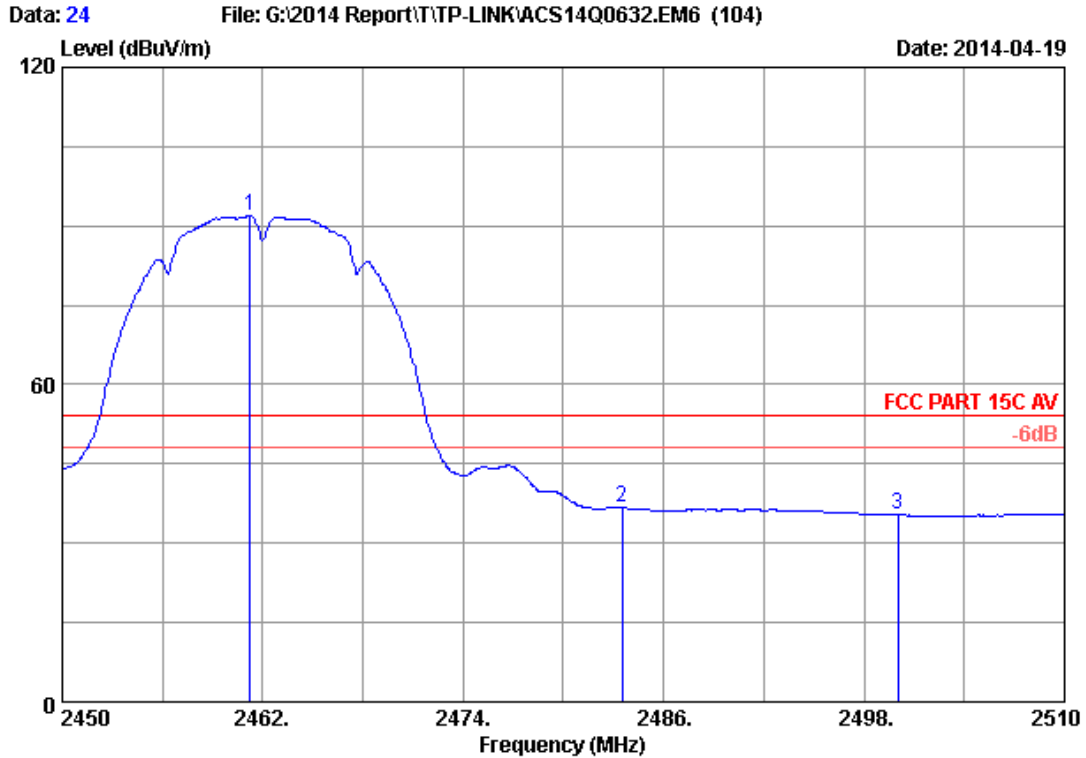
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 23
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11b 2462MHz Tx
M/N : TL-WA7110ND

No.	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	2460.620	28.31	5.89	35.70	96.97	95.47	74.00	-21.47	Peak
2	2483.500	28.36	5.92	35.70	49.04	47.62	74.00	26.38	Peak
3	2486.000	28.37	5.92	35.70	50.44	49.03	74.00	24.97	Peak
4	2500.000	28.40	5.94	35.70	47.39	46.03	74.00	27.97	Peak

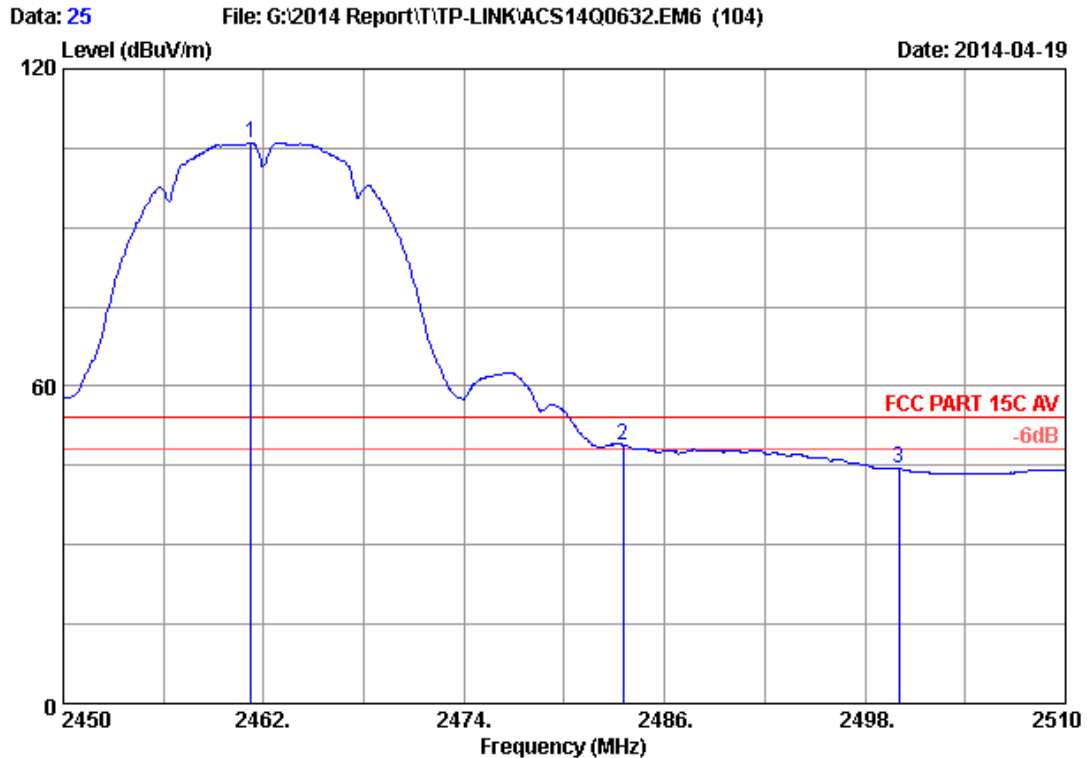
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	28.31	5.89	35.70	93.37	91.87	54.00	-37.87	Average
2	2483.500	28.36	5.92	35.70	38.20	36.78	54.00	17.22	Average
3	2500.000	28.40	5.94	35.70	36.70	35.34	54.00	18.66	Average

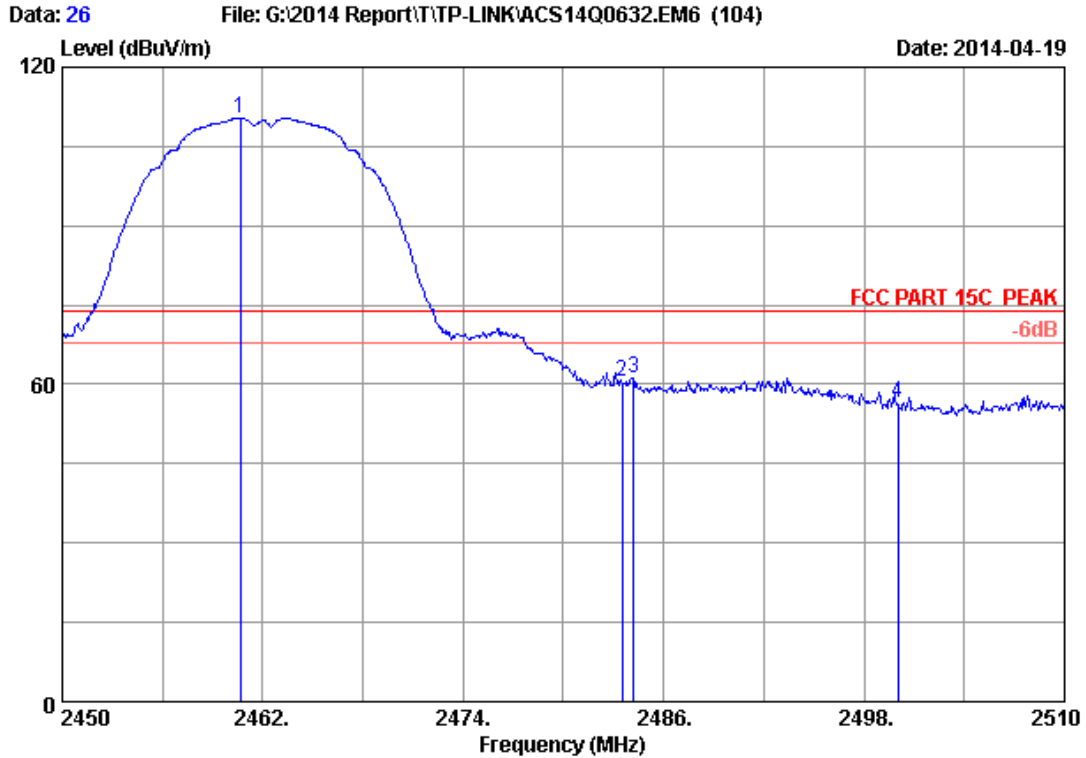
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	28.31	5.89	35.70	107.61	106.11	54.00	-52.11	Average
2	2483.500	28.36	5.92	35.70	50.34	48.92	54.00	5.08	Average
3	2500.000	28.40	5.94	35.70	45.69	44.33	54.00	9.67	Average

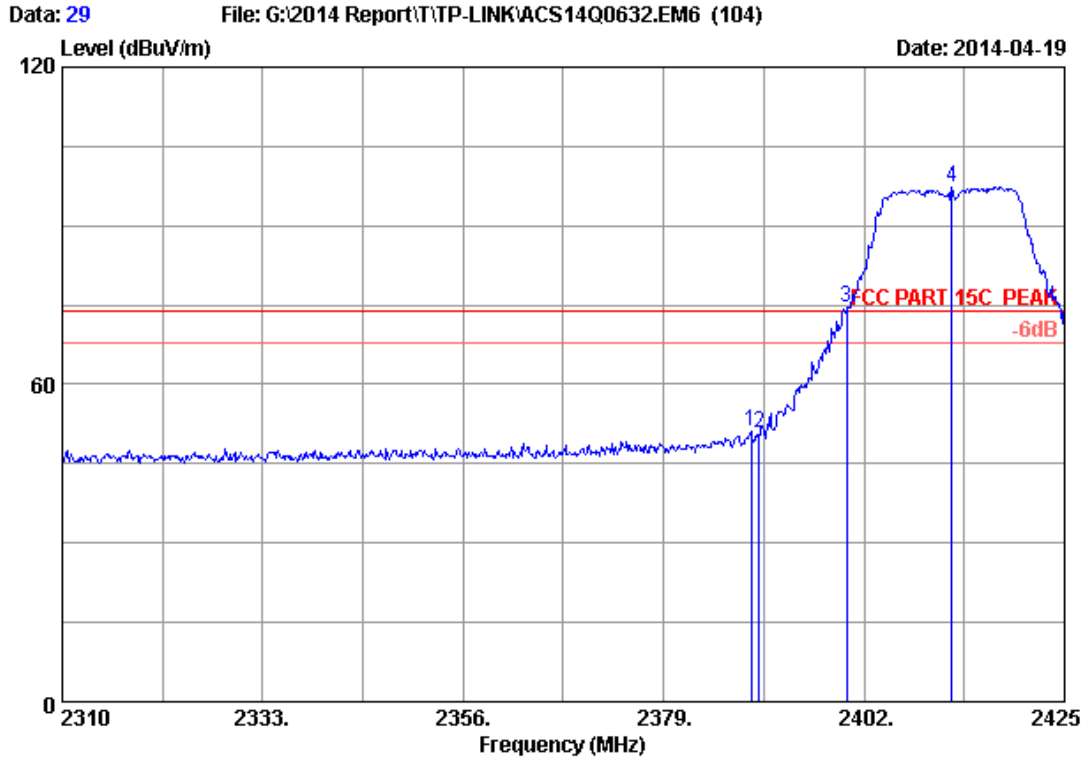
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	2460.680	28.31	5.89	35.70	111.76	110.26	74.00	-36.26	Peak
2	2483.500	28.36	5.92	35.70	61.81	60.39	74.00	13.61	Peak
3	2484.200	28.37	5.92	35.70	62.58	61.17	74.00	12.83	Peak
4	2500.000	28.40	5.94	35.70	57.78	56.42	74.00	17.58	Peak

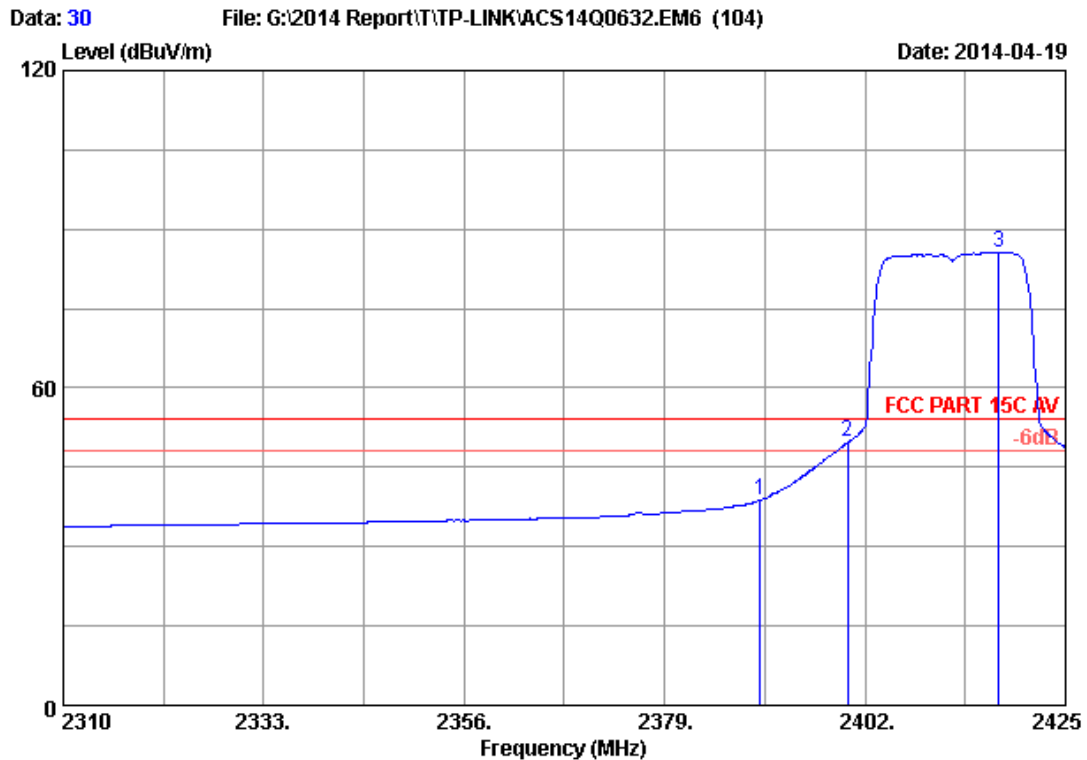
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	2389.005	28.16	5.78	35.70	53.02	51.26	74.00	22.74	Peak
2	2390.000	28.16	5.78	35.70	52.53	50.77	74.00	23.23	Peak
3	2400.000	28.18	5.80	35.70	76.13	74.41	74.00	-0.41	Peak
4	2412.120	28.21	5.81	35.70	98.94	97.26	74.00	-23.26	Peak

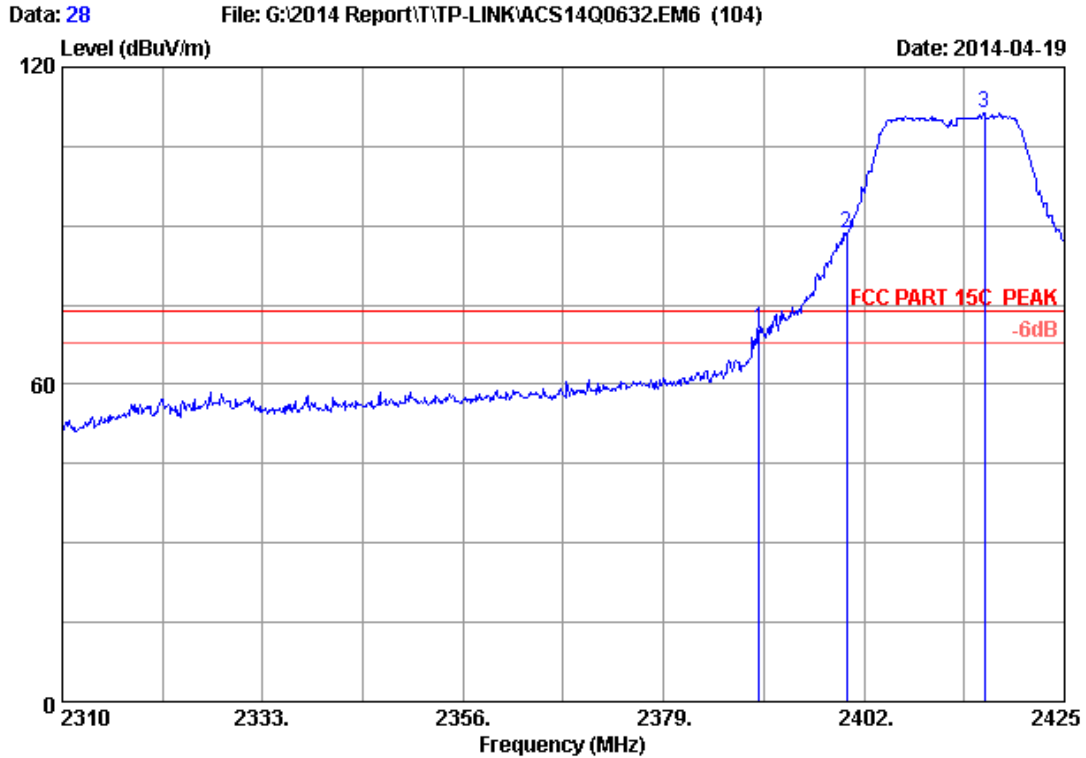
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	28.16	5.78	35.70	40.57	38.81	54.00	15.19	Average
2	2400.000	28.18	5.80	35.70	51.57	49.85	54.00	4.15	Average
3	2417.295	28.22	5.82	35.70	87.23	85.57	54.00	-31.57	Average

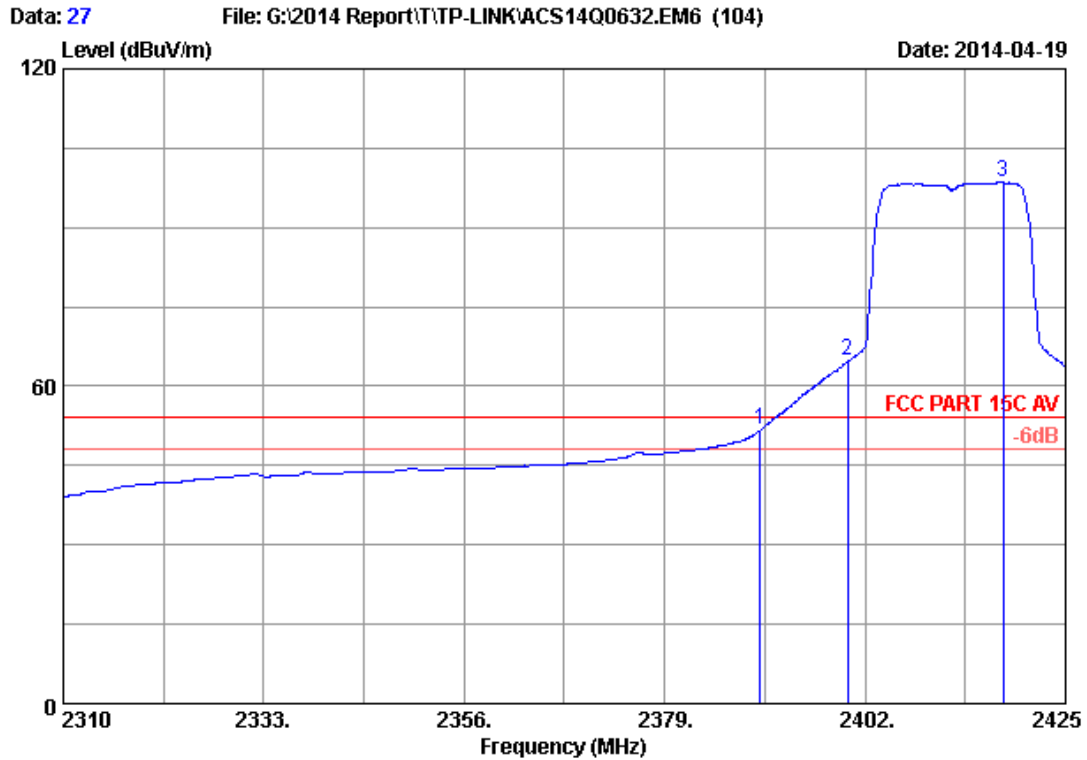
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	28.16	5.78	35.70	72.42	70.66	74.00	3.34	Peak
2	2400.000	28.18	5.80	35.70	90.46	88.74	74.00	-14.74	Peak
3	2415.800	28.21	5.82	35.70	113.02	111.35	74.00	-37.35	Peak

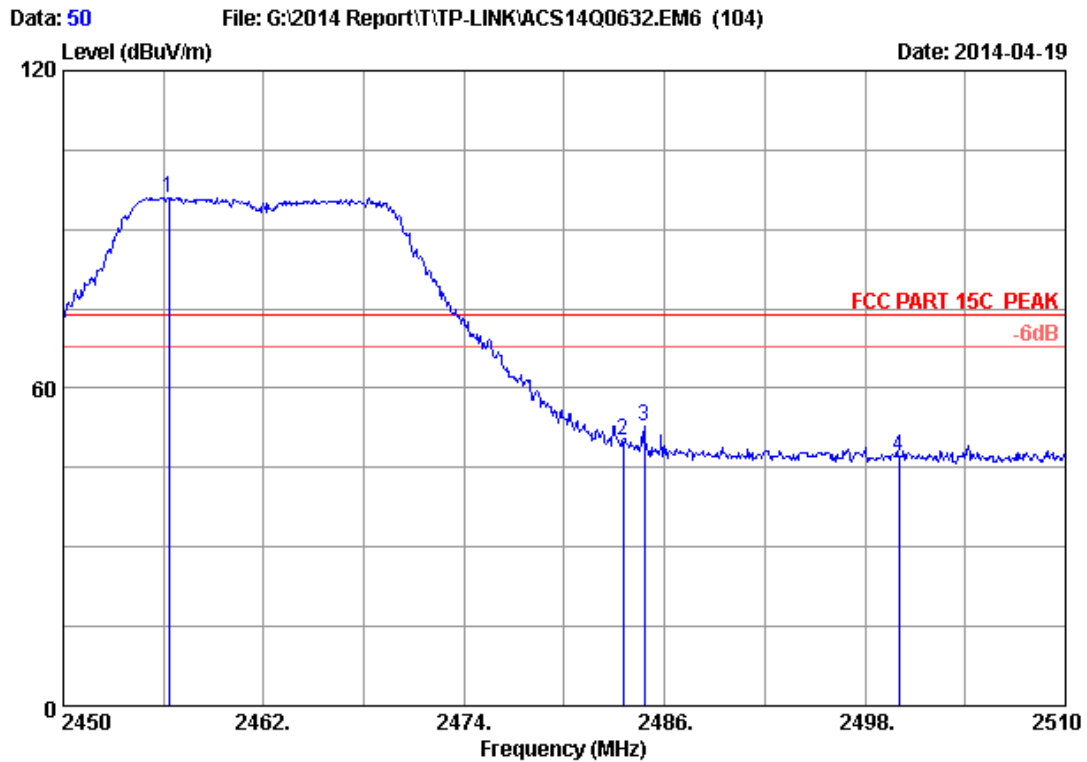
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant.			Reading (dBuV)	Emission			Margin (dB)	Remark
		Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)		Level (dBuV/m)	Limits (dBuV/m)			
1	2390.000	28.16	5.78	35.70	53.49	51.73	54.00	2.27	Average	
2	2400.000	28.18	5.80	35.70	66.47	64.75	54.00	-10.75	Average	
3	2417.870	28.22	5.82	35.70	100.12	98.46	54.00	-44.46	Average	

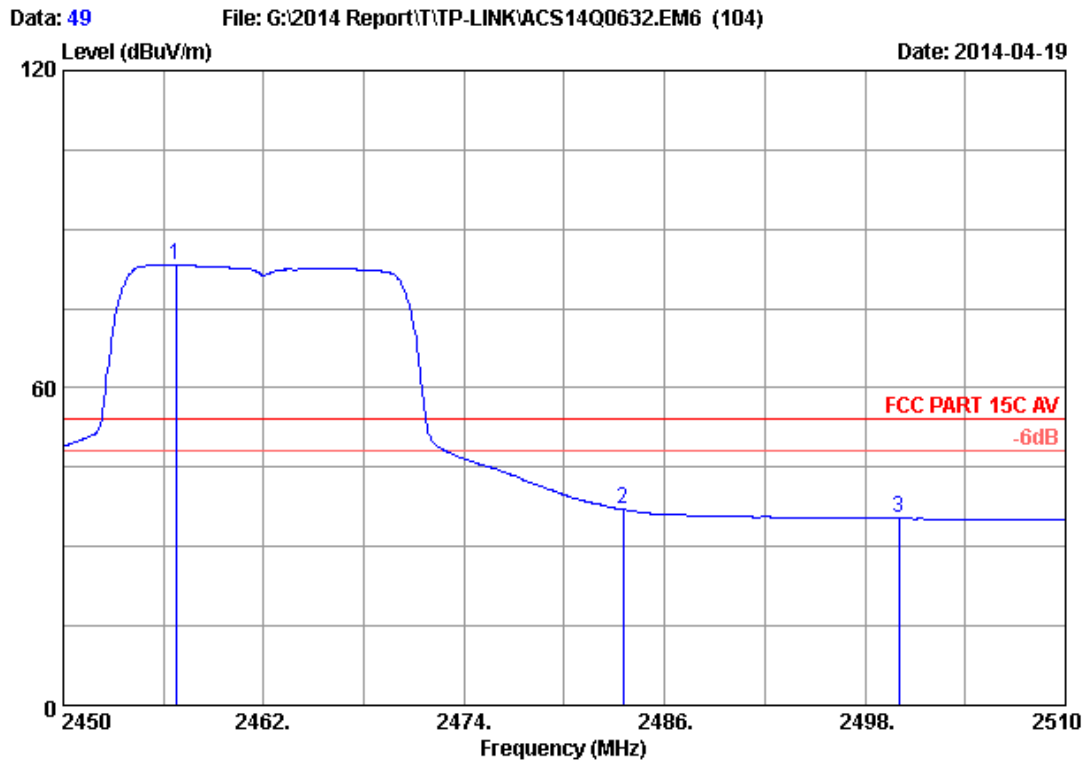
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant.			Reading (dBuV)	Emission			Margin (dB)	Remark
		Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)		Level (dBuV/m)	Limits (dBuV/m)			
1	2456.300	28.30	5.88	35.70	97.56	96.04	74.00	-22.04	Peak	
2	2483.500	28.36	5.92	35.70	51.71	50.29	74.00	23.71	Peak	
3	2484.800	28.37	5.92	35.70	54.13	52.72	74.00	21.28	Peak	
4	2500.000	28.40	5.94	35.70	48.57	47.21	74.00	26.79	Peak	

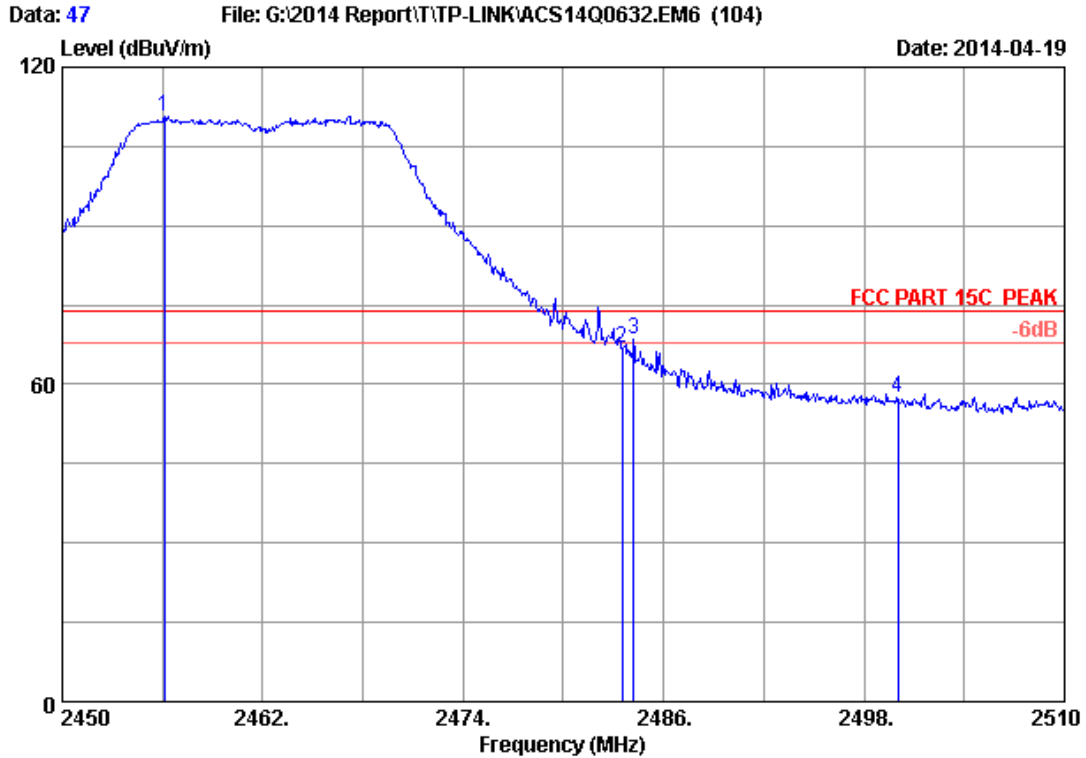
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	2456.720	28.30	5.88	35.70	84.75	83.23	54.00	-29.23	Average
2	2483.500	28.36	5.92	35.70	38.42	37.00	54.00	17.00	Average
3	2500.000	28.40	5.94	35.70	36.75	35.39	54.00	18.61	Average

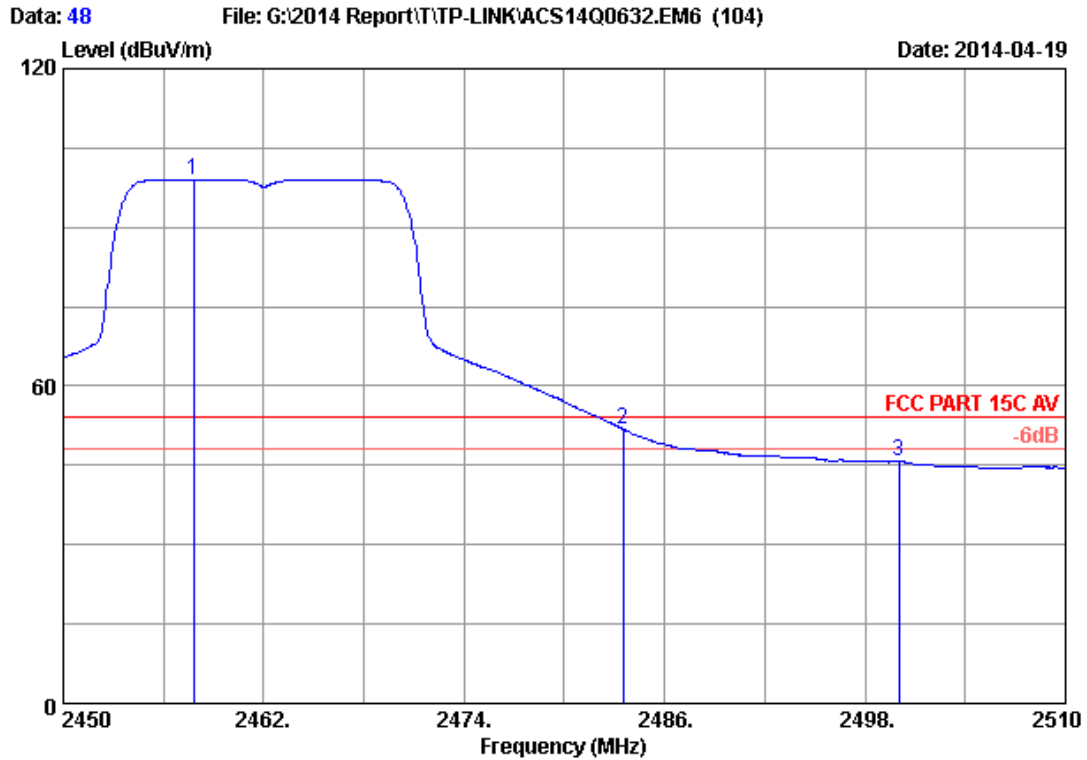
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2456.120	28.30	5.88	35.70	112.28	110.76	74.00	-36.76	Peak	
2	2483.500	28.36	5.92	35.70	68.21	66.79	74.00	7.21	Peak	
3	2484.200	28.37	5.92	35.70	70.00	68.59	74.00	5.41	Peak	
4	2500.000	28.40	5.94	35.70	58.77	57.41	74.00	16.59	Peak	

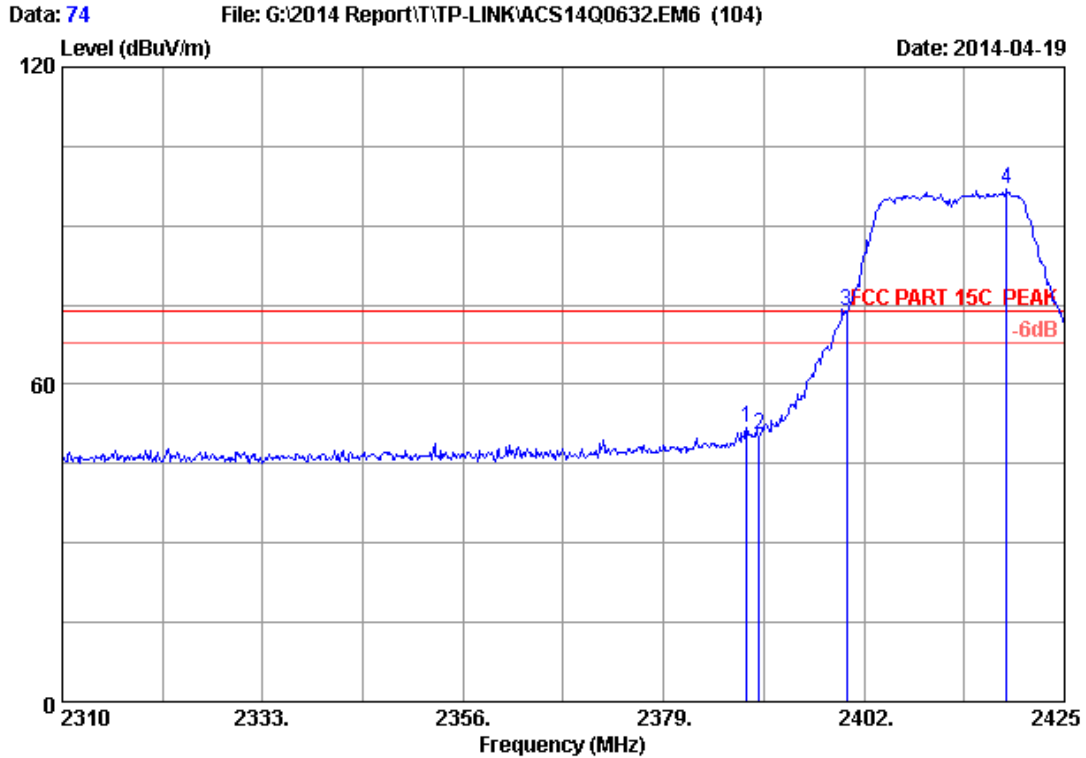
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	2457.800	28.31	5.88	35.70	100.60	99.09	54.00	-45.09	Average
2	2483.500	28.36	5.92	35.70	53.29	51.87	54.00	2.13	Average
3	2500.000	28.40	5.94	35.70	47.09	45.73	54.00	8.27	Average

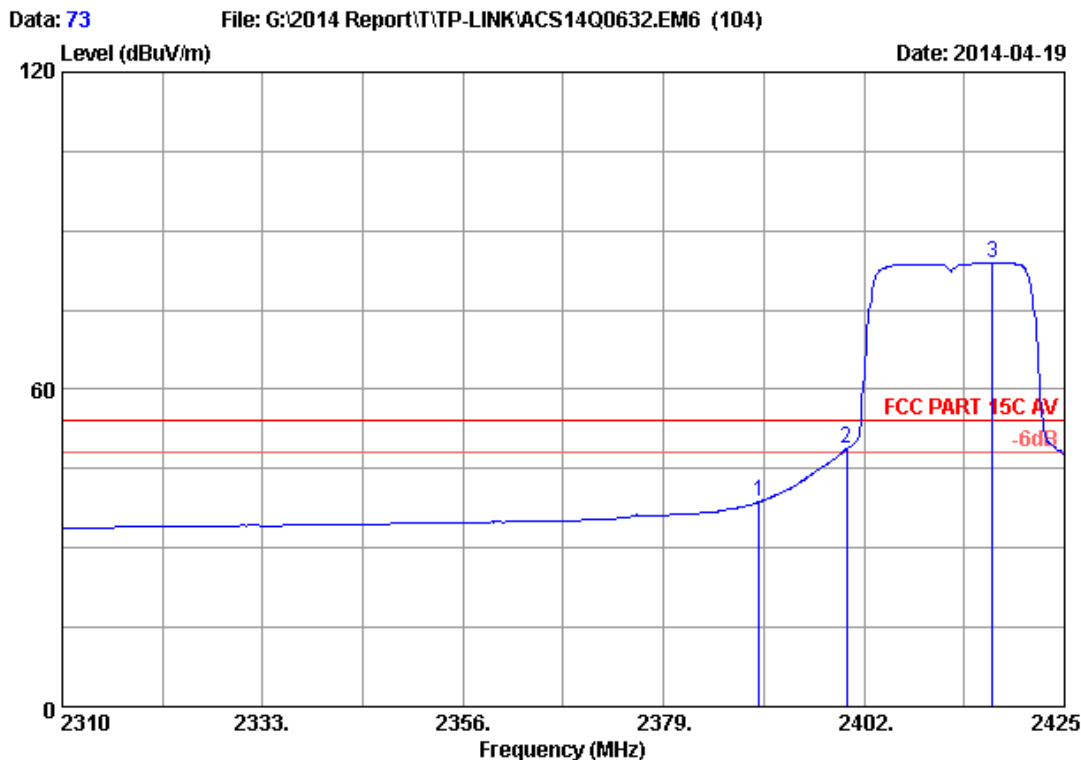
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	2388.545	28.15	5.78	35.70	53.57	51.80	74.00	22.20	Peak
2	2390.000	28.16	5.78	35.70	52.18	50.42	74.00	23.58	Peak
3	2400.000	28.18	5.80	35.70	75.66	73.94	74.00	0.06	Peak
4	2418.330	28.22	5.82	35.70	98.45	96.79	74.00	-22.79	Peak

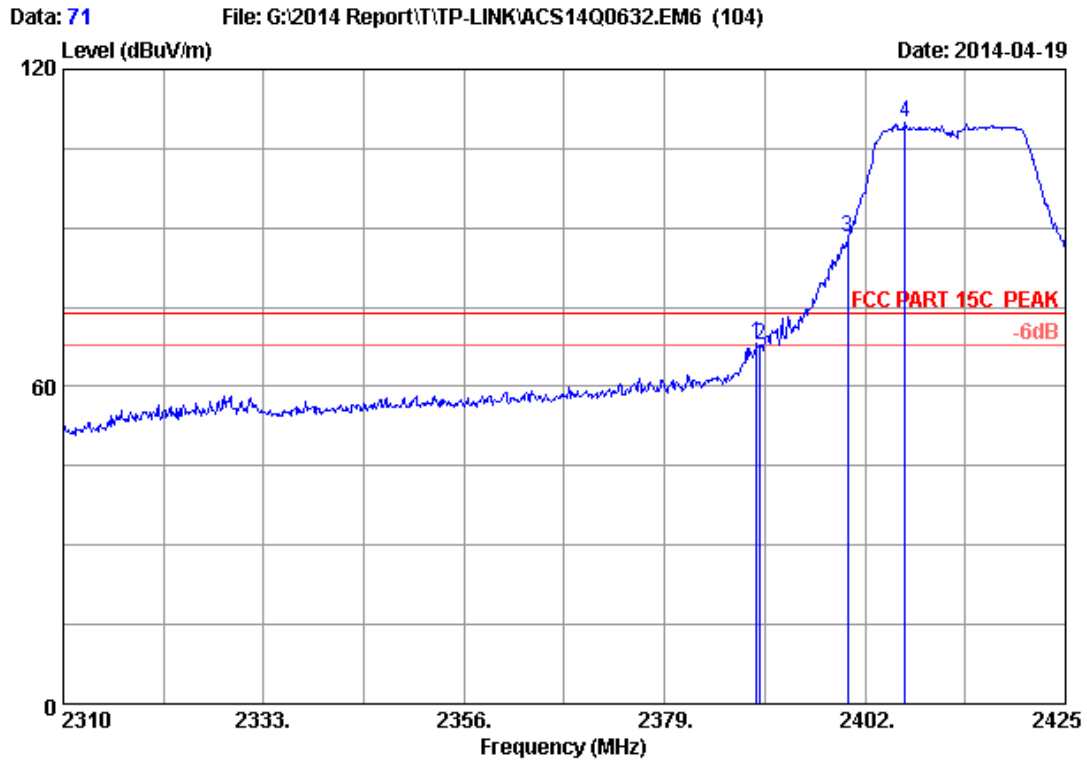
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	28.16	5.78	35.70	40.52	38.76	54.00	15.24	Average
2	2400.000	28.18	5.80	35.70	50.60	48.88	54.00	5.12	Average
3	2416.720	28.22	5.82	35.70	85.65	83.99	54.00	-29.99	Average

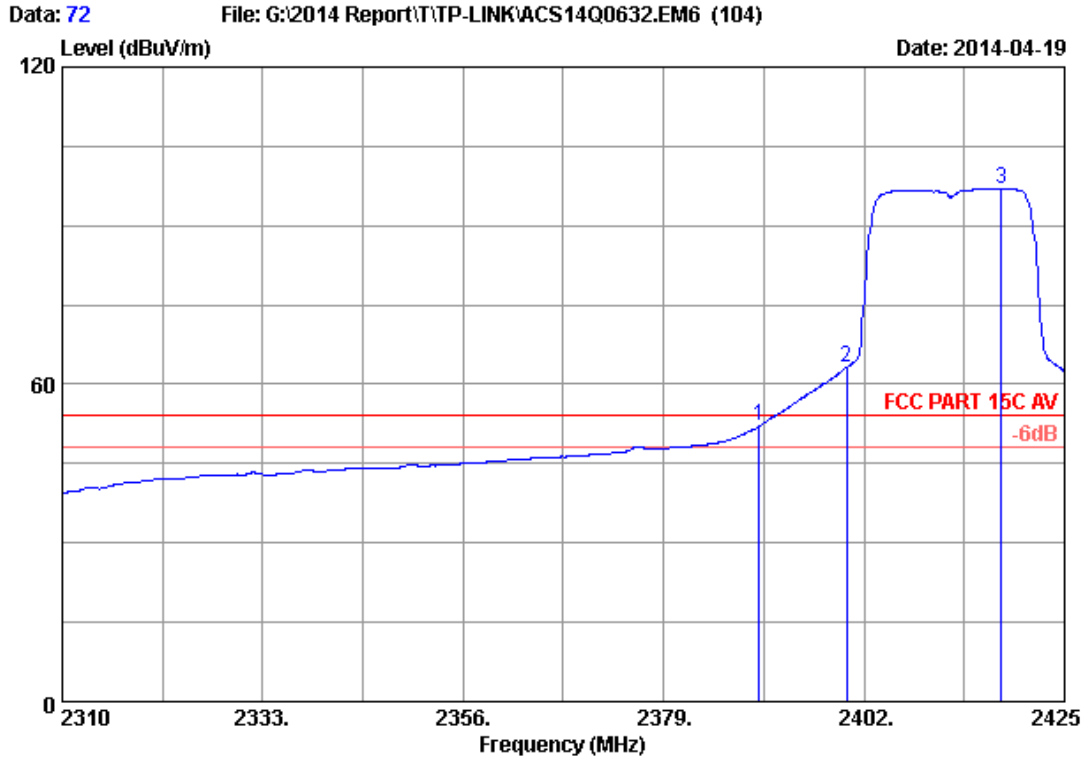
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 71
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	2389.580	28.16	5.78	35.70	69.92	68.16	74.00	5.84	Peak
2	2390.000	28.16	5.78	35.70	69.54	67.78	74.00	6.22	Peak
3	2400.000	28.18	5.80	35.70	90.11	88.39	74.00	-14.39	Peak
4	2406.600	28.19	5.81	35.70	111.51	109.81	74.00	-35.81	Peak

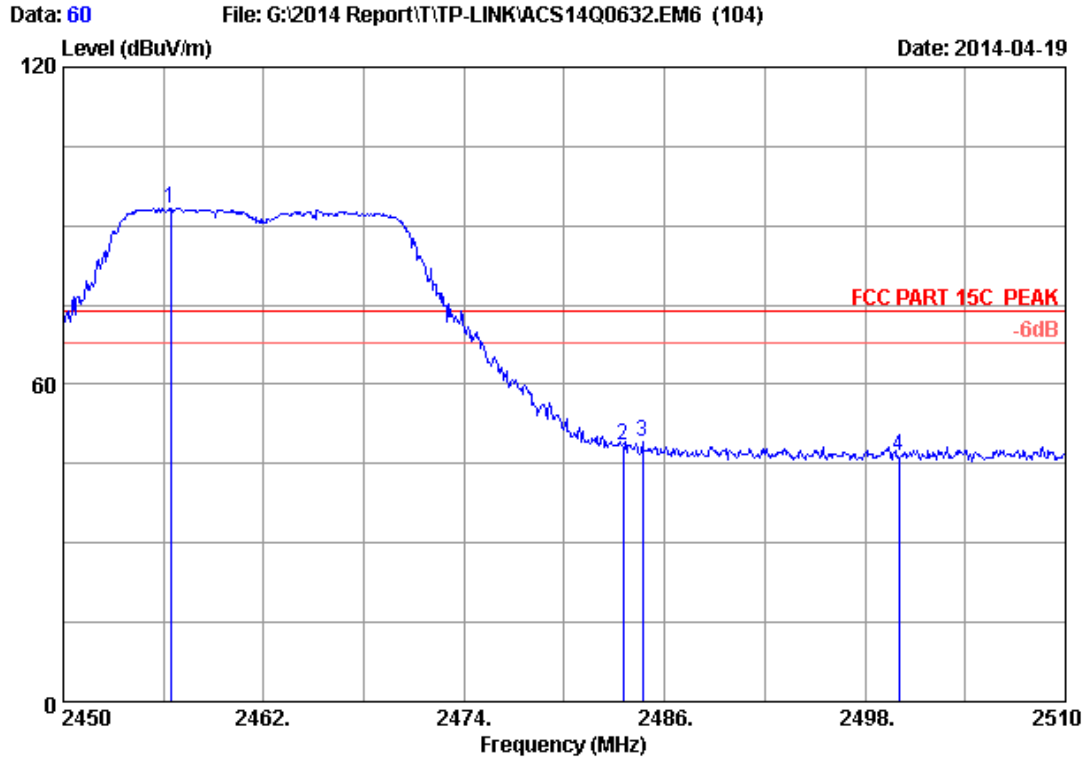
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : TL-WA7110ND

No.	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	28.16	5.78	35.70	53.90	52.14	54.00	1.86	Average
2	2400.000	28.18	5.80	35.70	65.04	63.32	54.00	-9.32	Average
3	2417.755	28.22	5.82	35.70	98.71	97.05	54.00	-43.05	Average

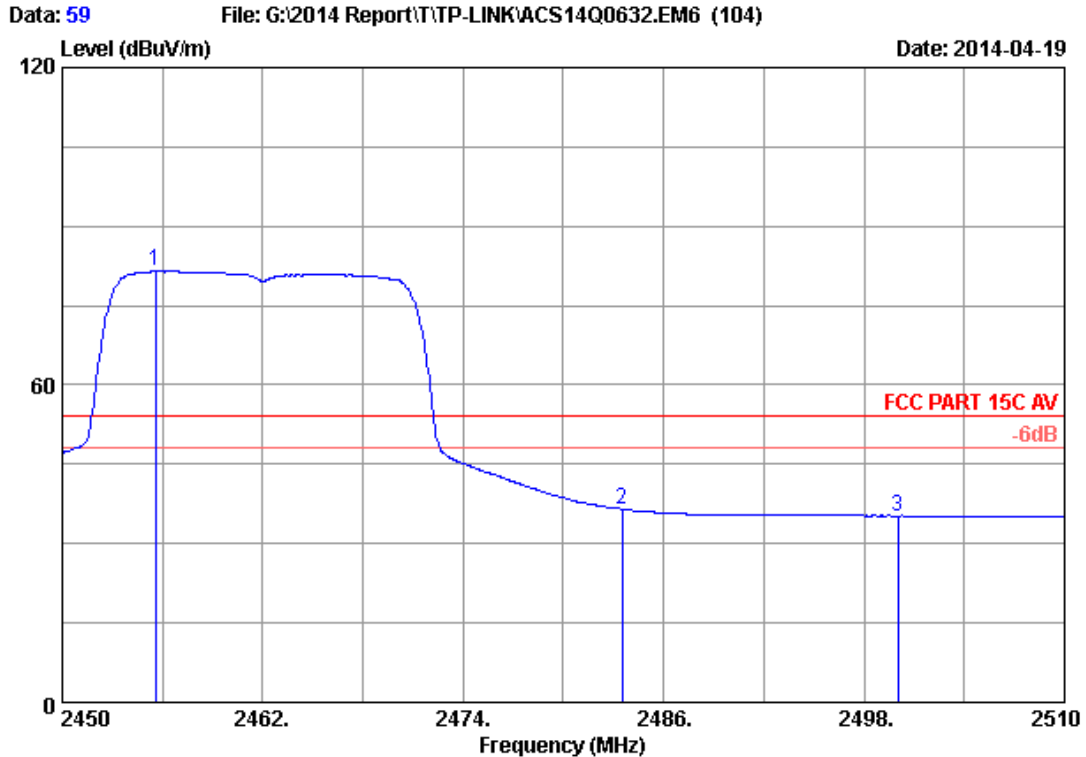
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 60
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : TL-WA7110ND

No.	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	2456.420	28.30	5.88	35.70	94.79	93.27	74.00	-19.27	Peak
2	2483.500	28.36	5.92	35.70	49.95	48.53	74.00	25.47	Peak
3	2484.680	28.37	5.92	35.70	50.38	48.97	74.00	25.03	Peak
4	2500.000	28.40	5.94	35.70	47.73	46.37	74.00	27.63	Peak

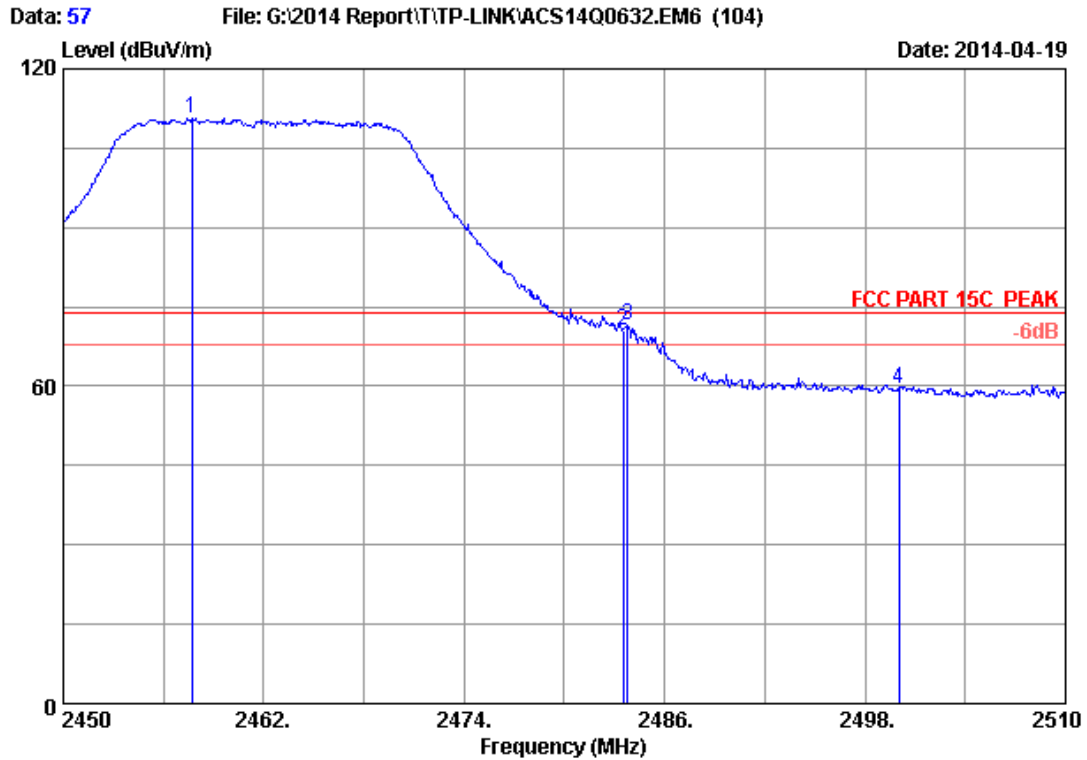
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	2455.580	28.30	5.88	35.70	82.99	81.47	54.00	-27.47	Average
2	2483.500	28.36	5.92	35.70	37.97	36.55	54.00	17.45	Average
3	2500.000	28.40	5.94	35.70	36.62	35.26	54.00	18.74	Average

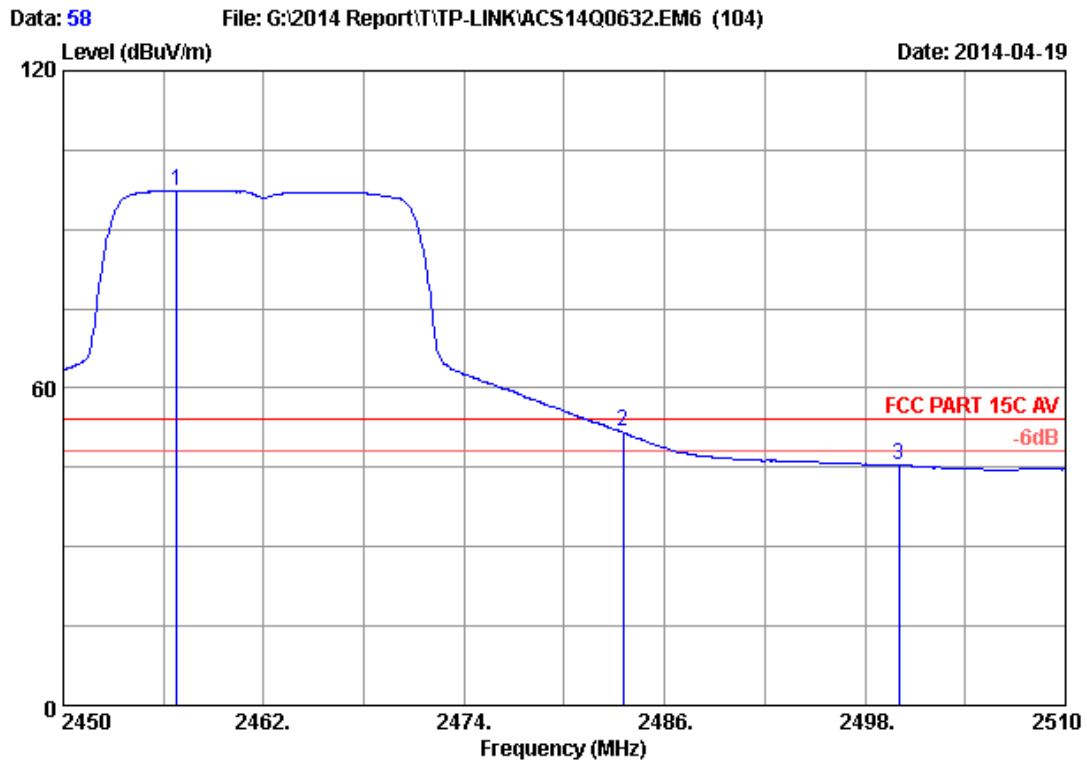
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 57
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant.			Reading (dBuV)	Emission			Margin (dB)	Remark
		Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)		Level (dBuV/m)	Limits (dBuV/m)			
1	2457.680	28.31	5.88	35.70	112.17	110.66	74.00	-36.66	Peak	
2	2483.500	28.36	5.92	35.70	71.86	70.44	74.00	3.56	Peak	
3	2483.780	28.36	5.92	35.70	72.79	71.37	74.00	2.63	Peak	
4	2500.000	28.40	5.94	35.70	60.74	59.38	74.00	14.62	Peak	

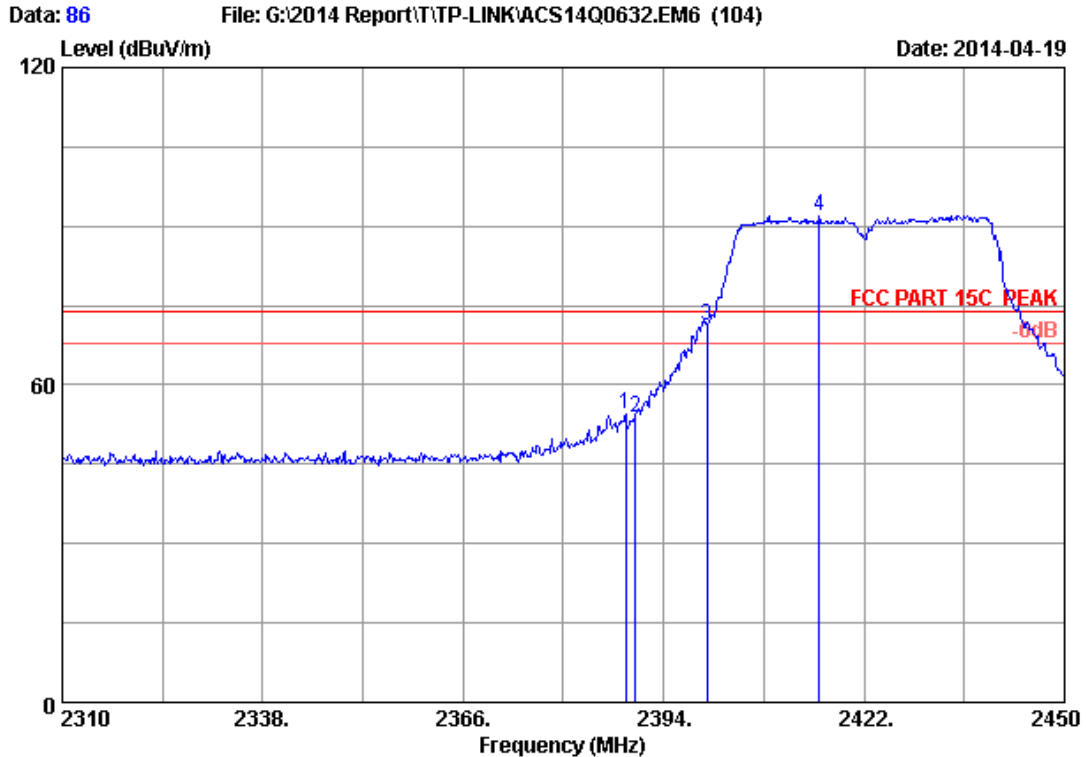
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 M/N : TL-WA7110ND

No.	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	28.30	5.88	35.70	98.94	97.42	54.00	-43.42	Average
2	2483.500	28.36	5.92	35.70	53.08	51.66	54.00	2.34	Average
3	2500.000	28.40	5.94	35.70	46.93	45.57	54.00	8.43	Average

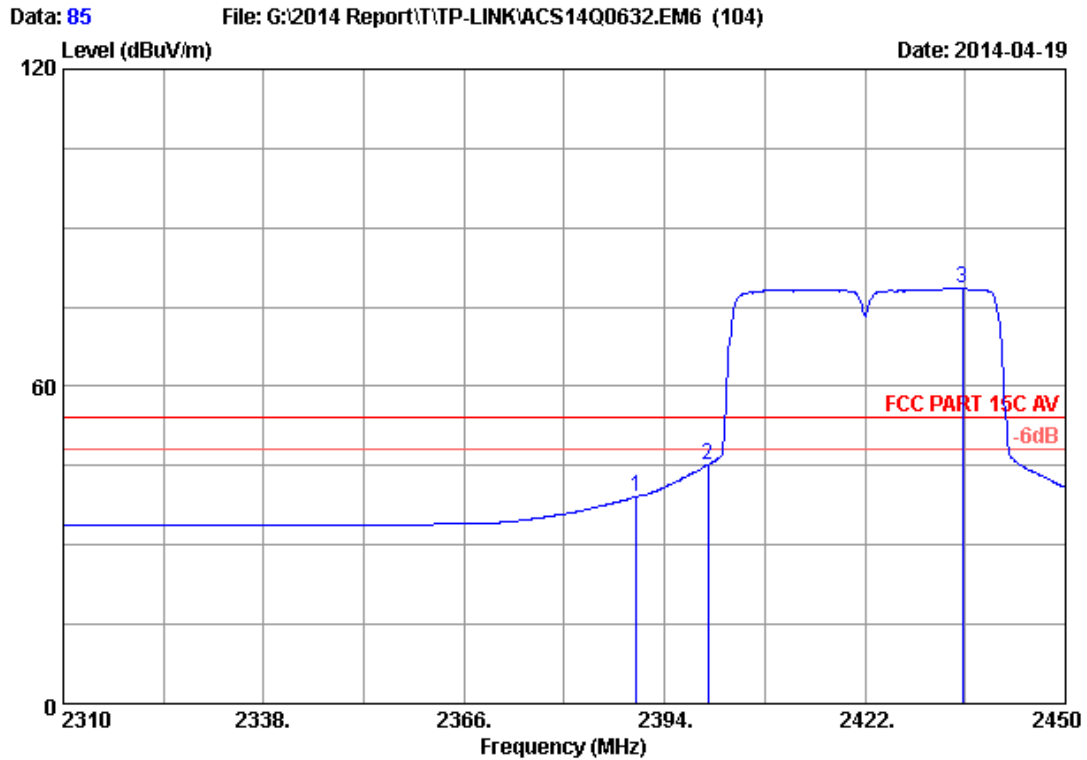
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : TL-WA7110ND

No.	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	2388.680	28.16	5.78	35.70	56.18	54.42	74.00	19.58	Peak
2	2390.000	28.16	5.78	35.70	55.44	53.68	74.00	20.32	Peak
3	2400.000	28.18	5.80	35.70	72.88	71.16	74.00	2.84	Peak
4	2415.700	28.21	5.82	35.70	93.70	92.03	74.00	-18.03	Peak

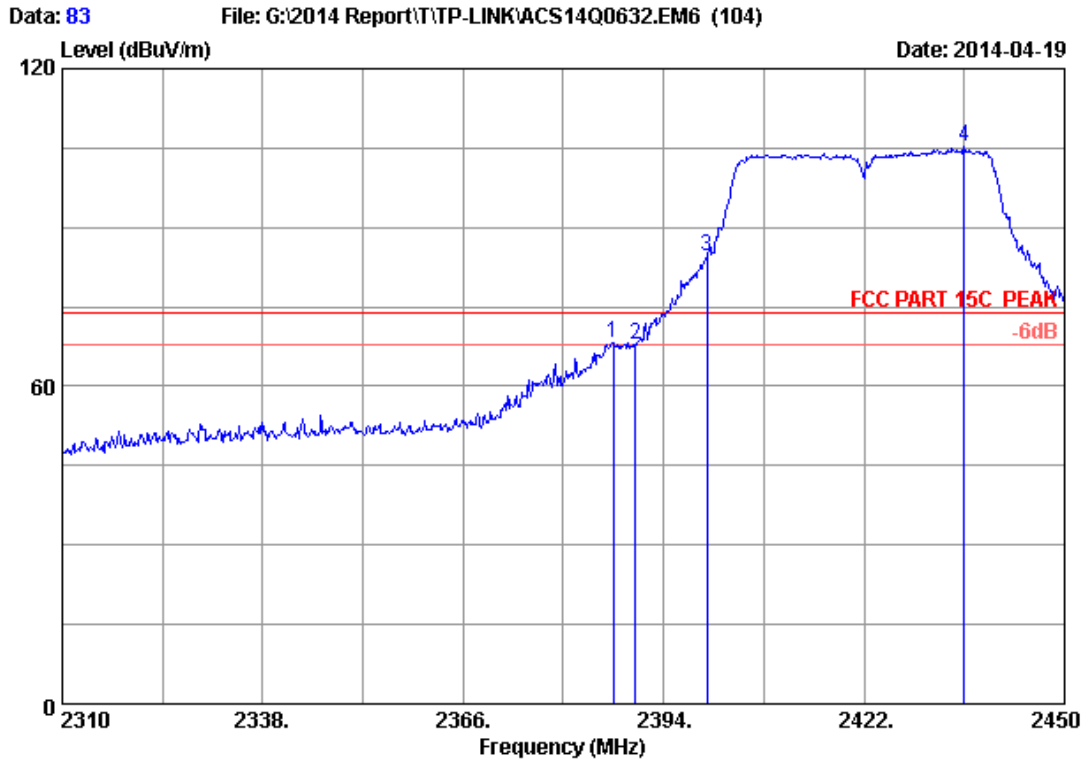
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2390.000	28.16	5.78	35.70	40.83	39.07	54.00	14.93	Average	
2	2400.000	28.18	5.80	35.70	46.93	45.21	54.00	8.79	Average	
3	2435.580	28.26	5.85	35.70	80.09	78.50	54.00	-24.50	Average	

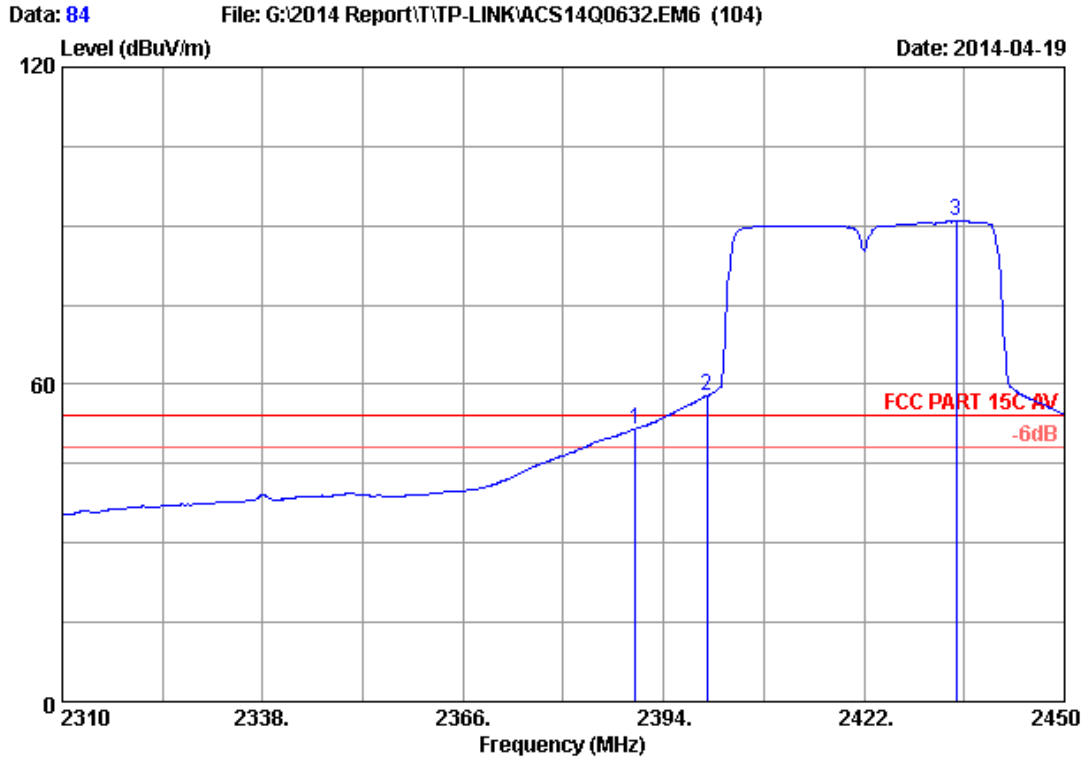
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 83
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2422MHz Tx
M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2387.000	28.15	5.78	35.70	70.12	68.35	74.00	5.65	Peak	
2	2390.000	28.16	5.78	35.70	69.49	67.73	74.00	6.27	Peak	
3	2400.000	28.18	5.80	35.70	86.26	84.54	74.00	-10.54	Peak	
4	2436.000	28.26	5.85	35.70	106.94	105.35	74.00	-31.35	Peak	

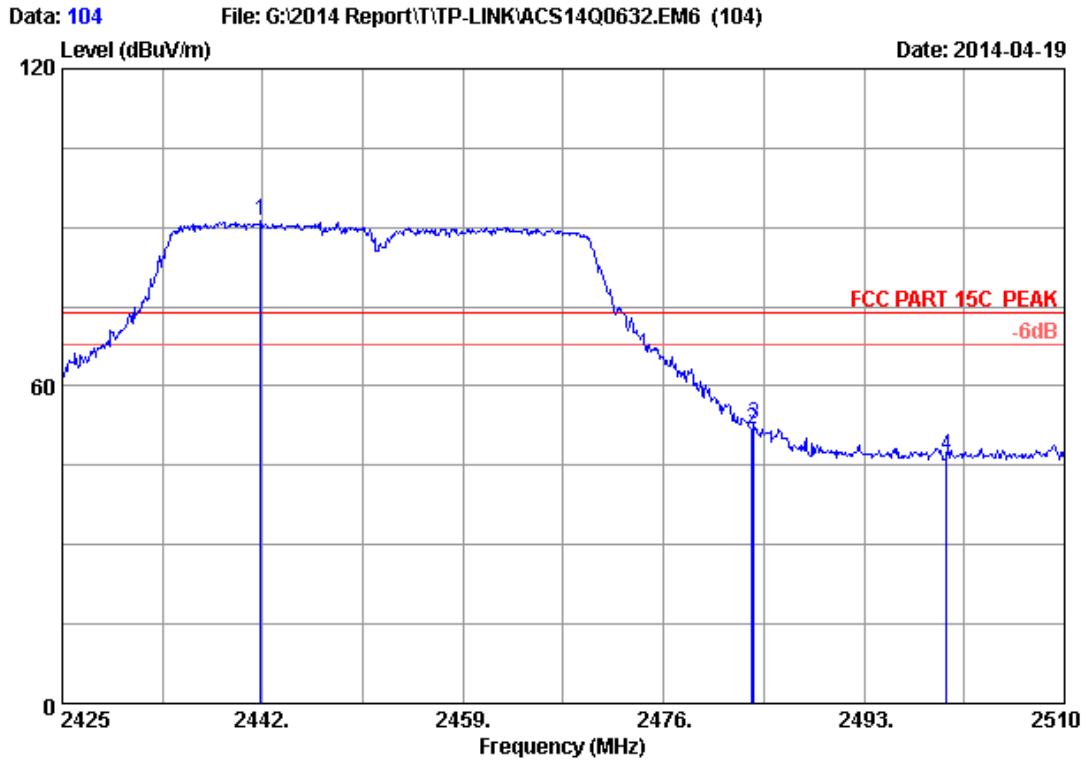
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 84
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission			Margin	Remark
						Level (dBuV/m)	Limits (dBuV/m)			
1	2390.000	28.16	5.78	35.70	53.24	51.48	54.00	2.52	Average	
2	2400.000	28.18	5.80	35.70	59.64	57.92	54.00	-3.92	Average	
3	2434.880	28.26	5.85	35.70	92.42	90.83	54.00	-36.83	Average	

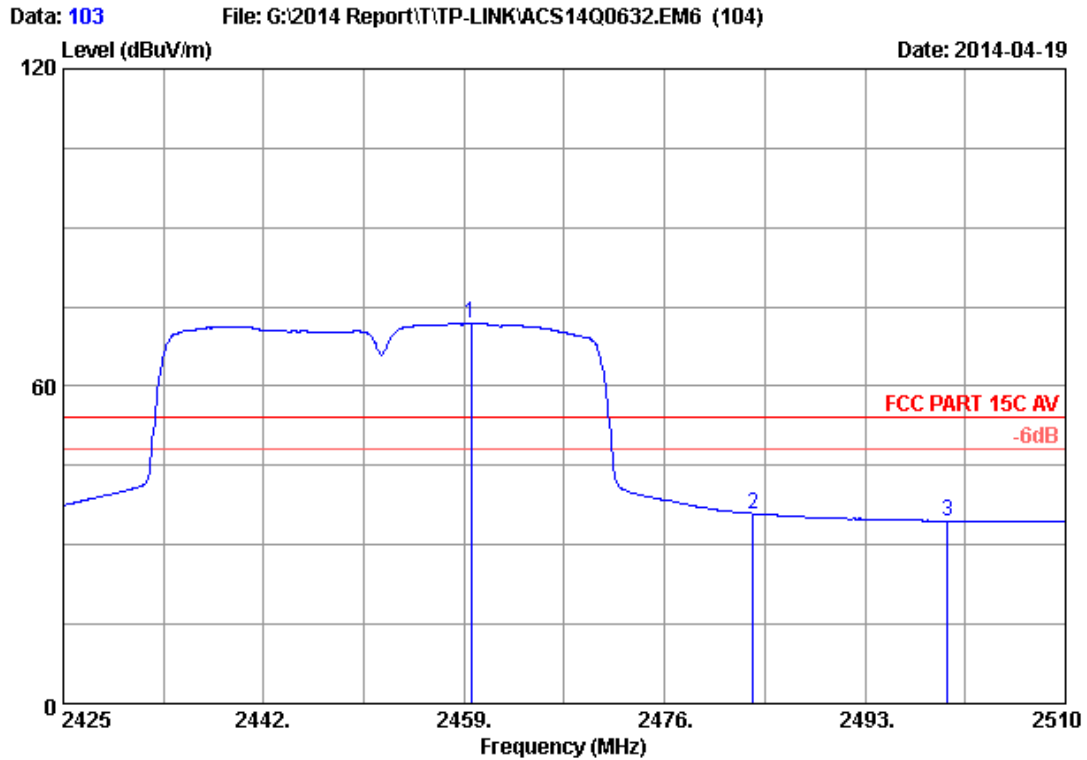
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 104
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : TL-WA7110ND

No.	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	2441.830	28.27	5.86	35.70	92.86	91.29	74.00	-17.29	Peak
2	2483.500	28.36	5.92	35.70	53.13	51.71	74.00	22.29	Peak
3	2483.650	28.36	5.92	35.70	54.32	52.90	74.00	21.10	Peak
4	2500.000	28.40	5.94	35.70	48.29	46.93	74.00	27.07	Peak

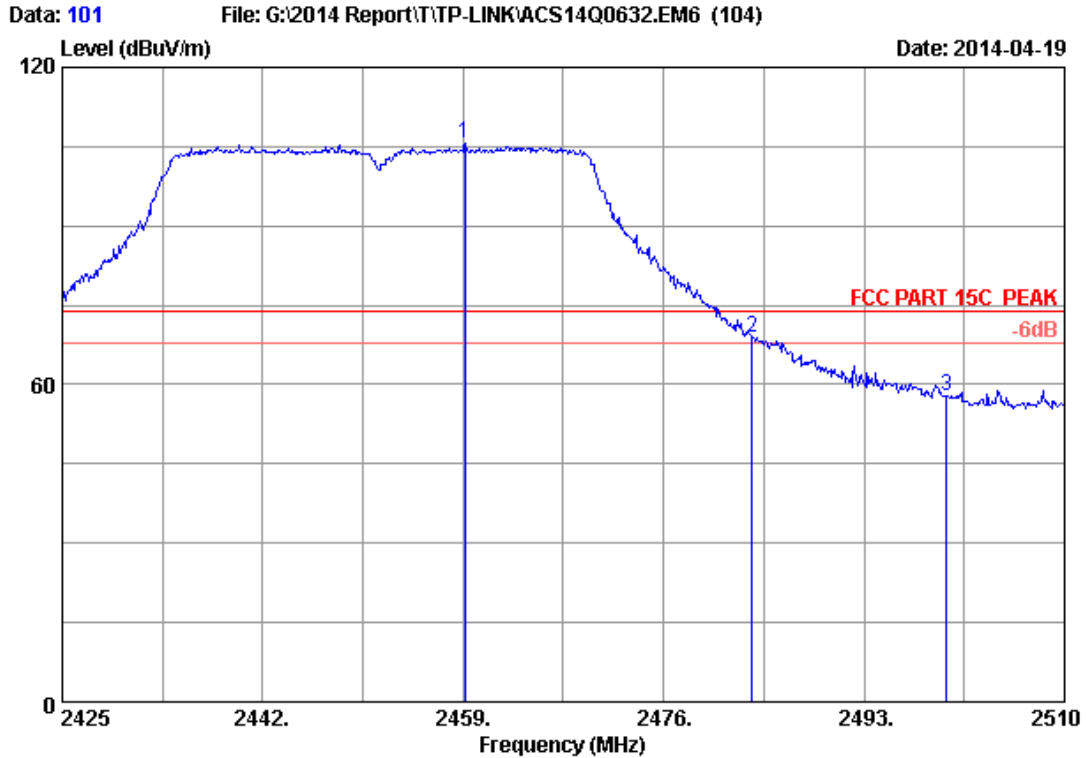
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 103
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : TL-WA7110ND

No.	Freq. (MHz)	Ant.			Reading (dBuV)	Emission			Margin (dB)	Remark
		Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)		Level (dBuV/m)	Limits (dBuV/m)			
1	2459.595	28.31	5.88	35.70	73.29	71.78	54.00	-17.78	Average	
2	2483.500	28.36	5.92	35.70	37.34	35.92	54.00	18.08	Average	
3	2500.000	28.40	5.94	35.70	35.89	34.53	54.00	19.47	Average	

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

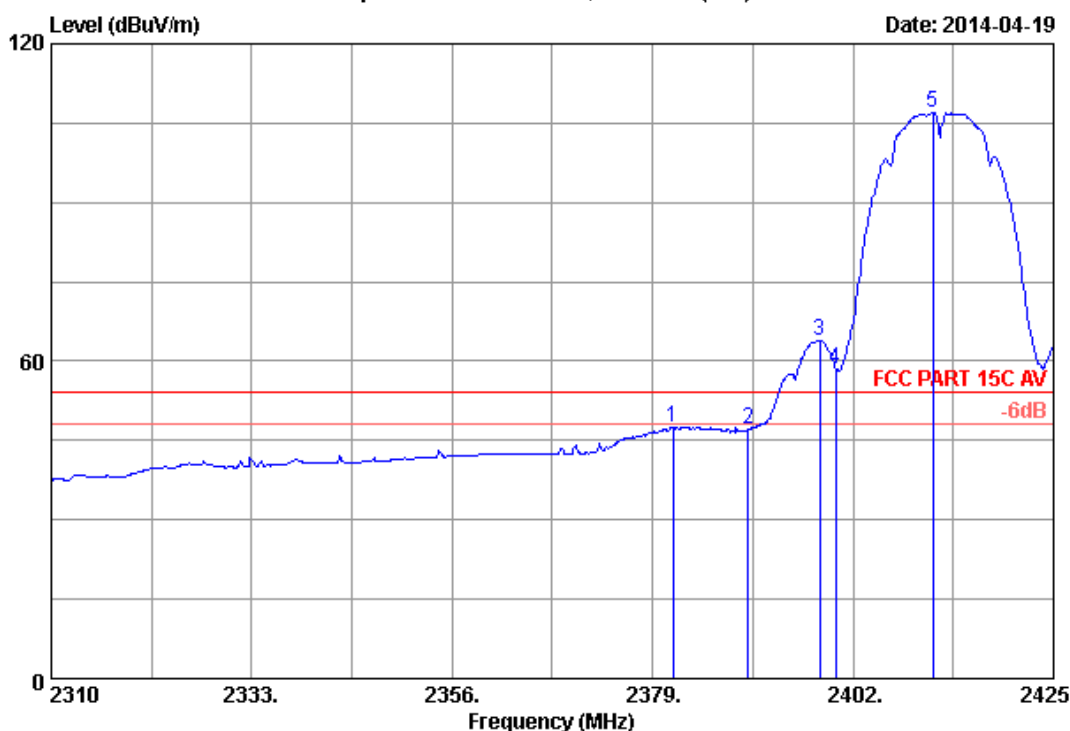


Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
 Power Rating : DC 12V From Adapter Input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 M/N : TL-WA7110ND

No.	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	28.31	5.88	35.70	107.10	105.59	74.00	-31.59	Peak
2	2483.500	28.36	5.92	35.70	70.44	69.02	74.00	4.98	Peak
3	2500.000	28.40	5.94	35.70	59.19	57.83	74.00	16.17	Peak

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

Data: 8 File: G:\2014 Report\T\TP-LINK\ACS14Q0632.EM6 (104) Date: 2014-04-19



Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 2.4GHz 150Mbps High Power Wireless Access Piont
Power Rating : DC 12V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : TL-WA7110ND

No.	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	2381.300	28.14	5.77	35.70	49.28	47.49	54.00	6.51	Average
2	2390.000	28.16	5.78	35.70	48.77	47.01	54.00	6.99	Average
3	2398.205	28.18	5.79	35.70	65.64	63.91	54.00	-9.91	Average
4	2400.000	28.18	5.80	35.70	60.34	58.62	54.00	-4.62	Average
5	2411.200	28.20	5.81	35.70	108.73	107.04	54.00	-53.04	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
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
8.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
1.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
2.	Antenna	EMCO	3115	9510-4580	May.08, 13	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

8.1. Limit

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

8.2. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300KHz RBW and 1MHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

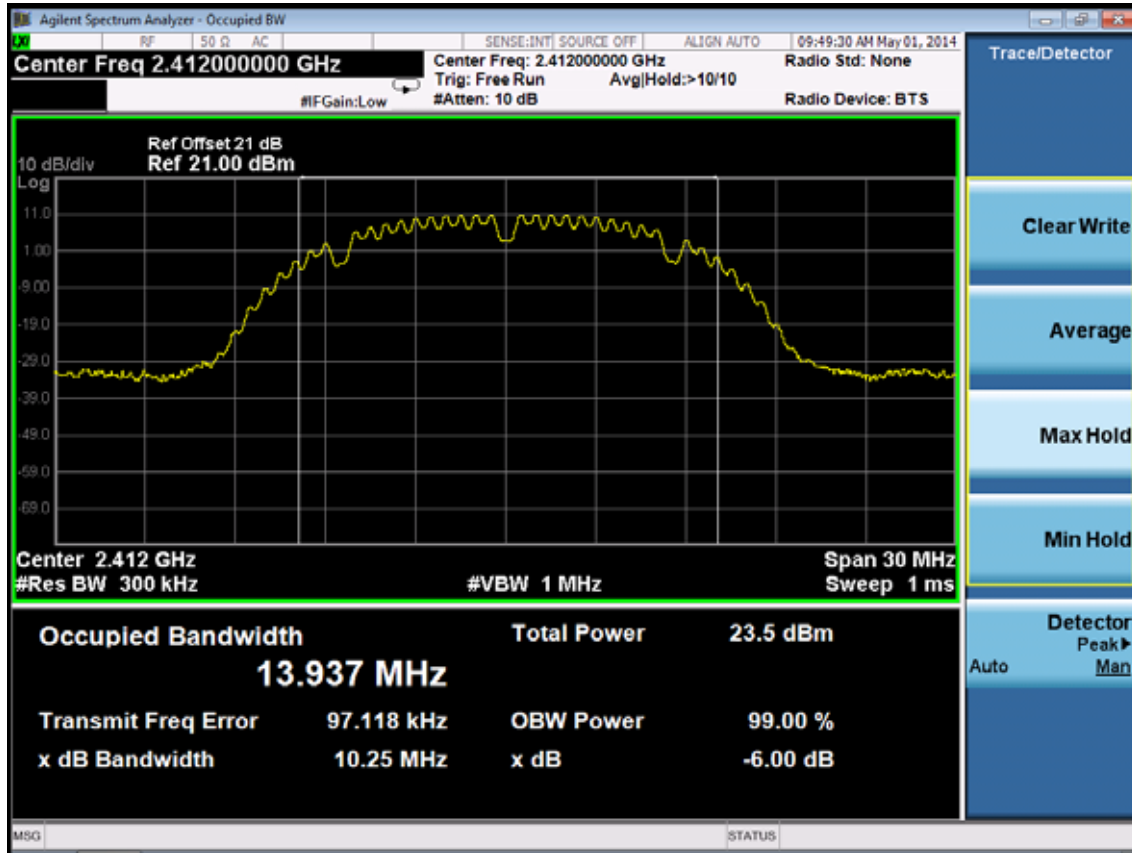
8.3. Test Results

EUT: 2.4GHz 150Mbps High Power Wireless Access Point		
M/N: TL-WA7110ND		
Test date:2014-05-01	Pressure: 101.3±1.0kpa	Humidity: 53.5±3.0 %
Tested by:Leo-Li	Test site: RF site	Temperature:23.6±0.6 °C

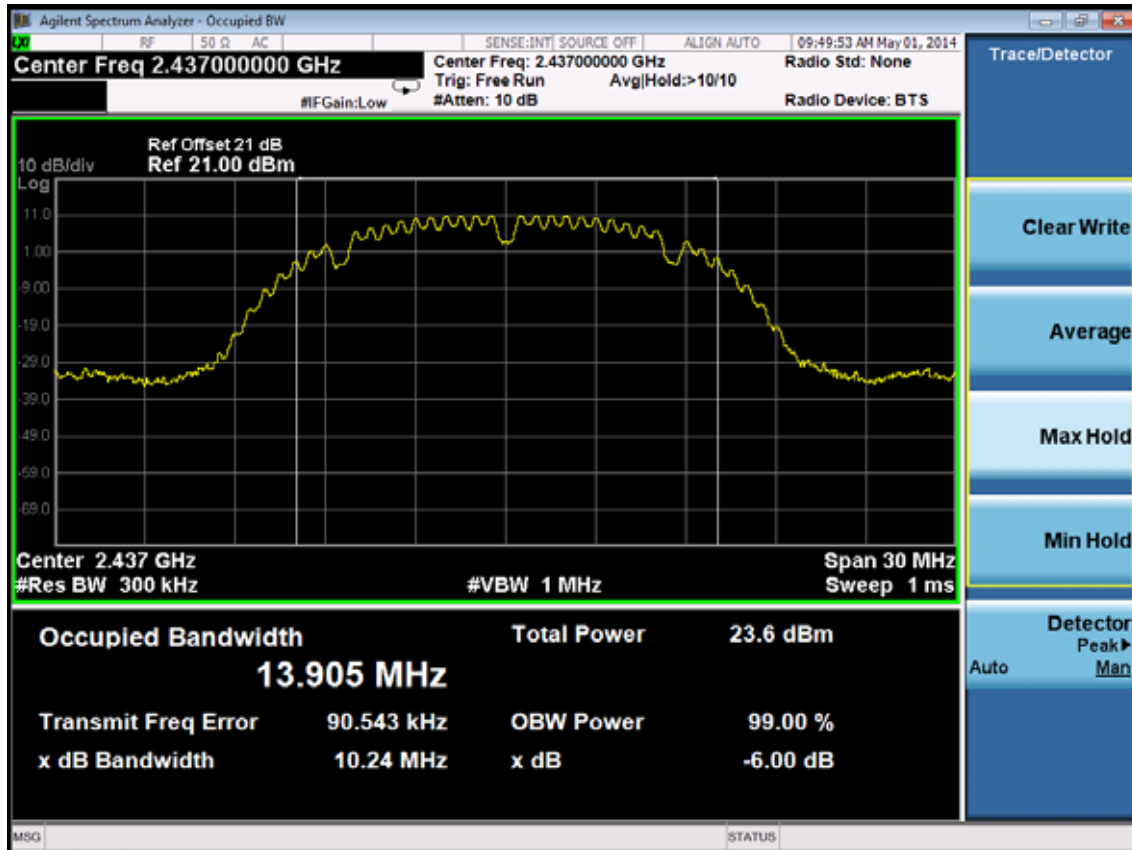
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	10.25	>500
	CH6	10.24	>500
	CH11	10.25	>500
11g	CH1	16.31	>500
	CH6	16.45	>500
	CH11	16.42	>500
11n HT20	CH1	17.64	>500
	CH6	17.69	>500
	CH11	17.67	>500
11n HT20	CH1	36.40	>500
	CH4	36.48	>500
	CH7	36.57	>500
Conclusion: PASS			

Test Mode: IEEE 802.11b TX

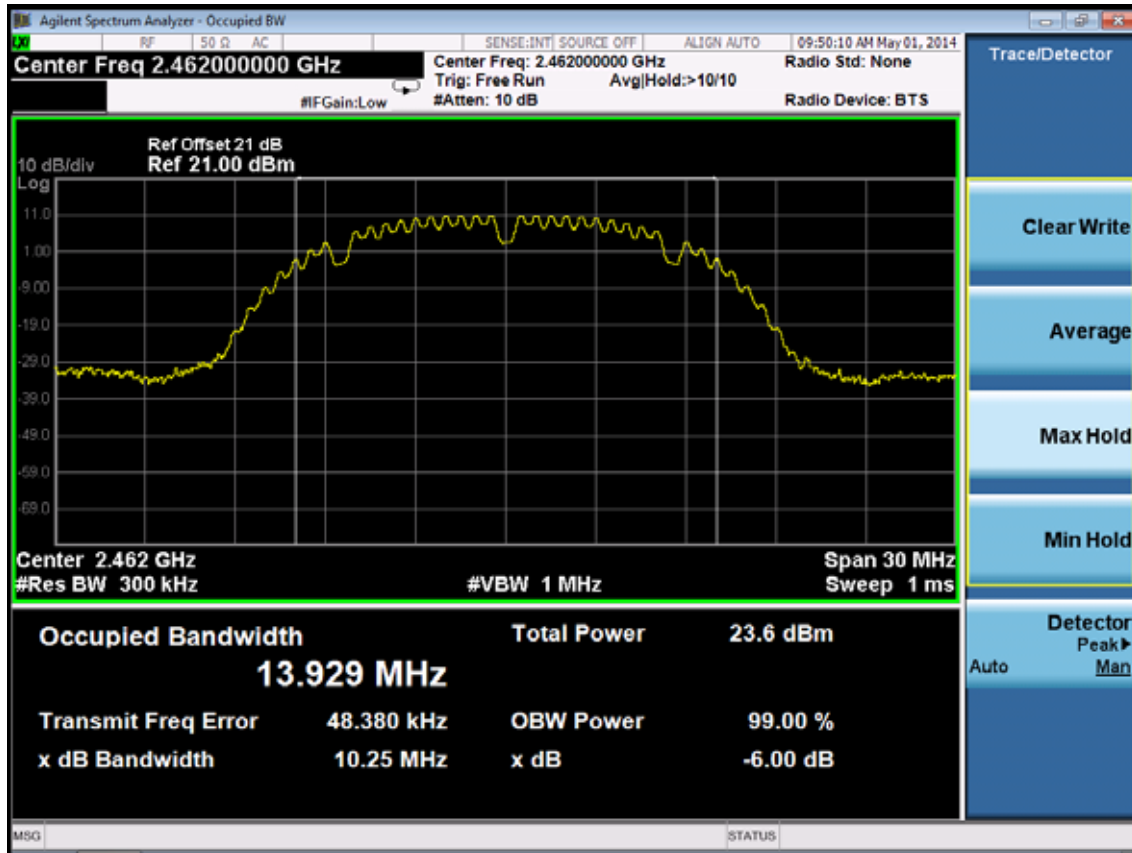
Test CH1: 2412MHz



Test CH6: 2437MHz

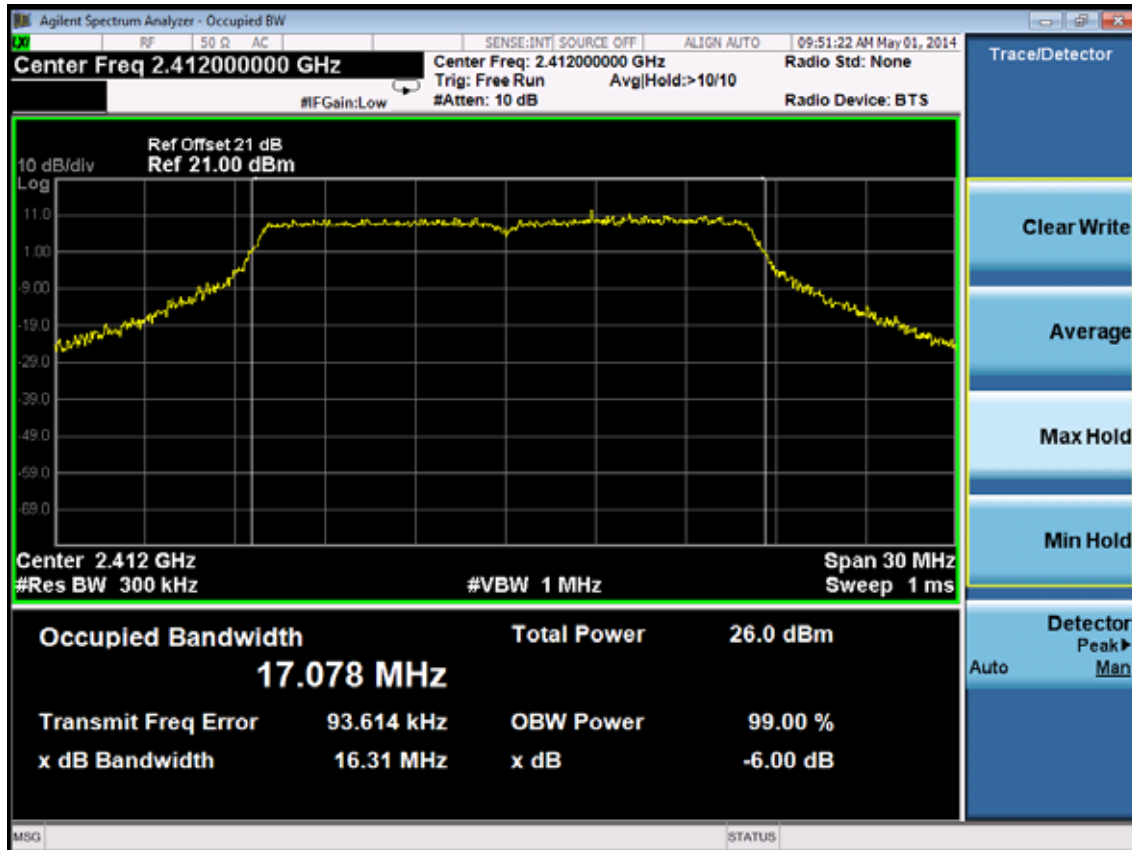


Test CH11: 2462MHz

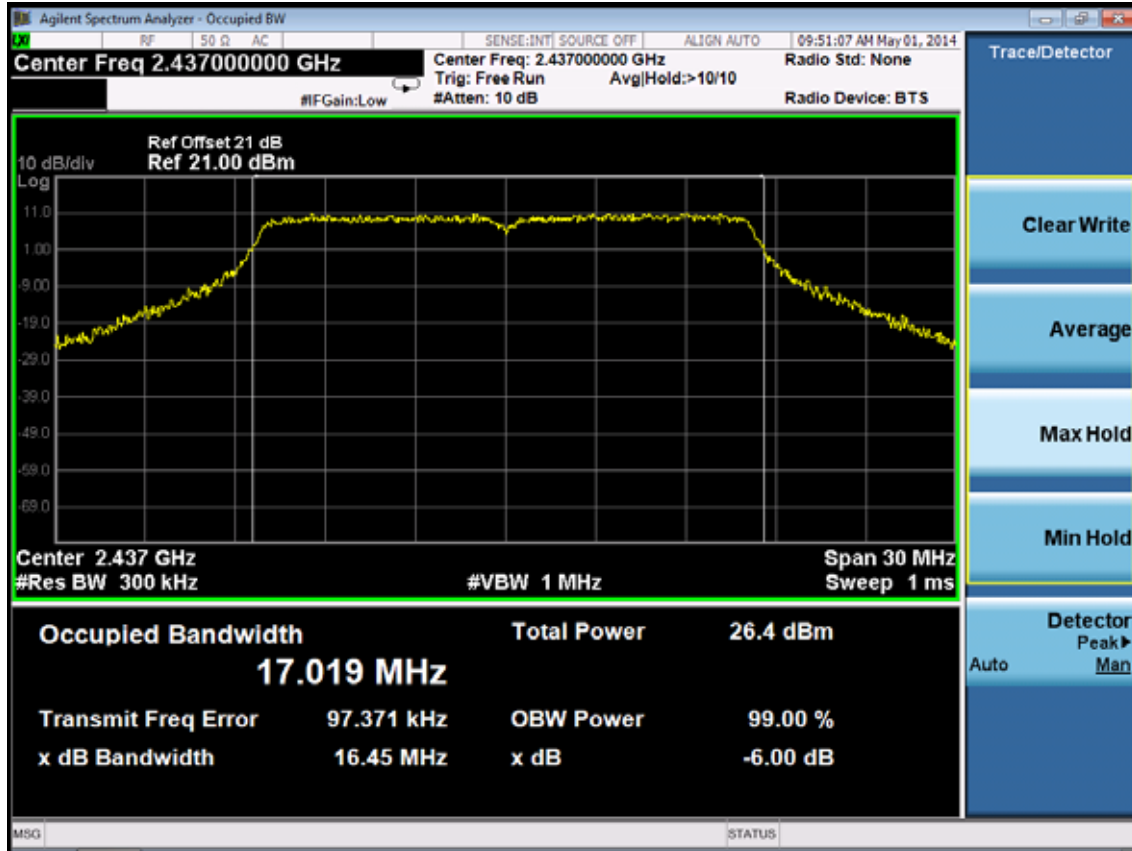


Test Mode: IEEE 802.11g TX

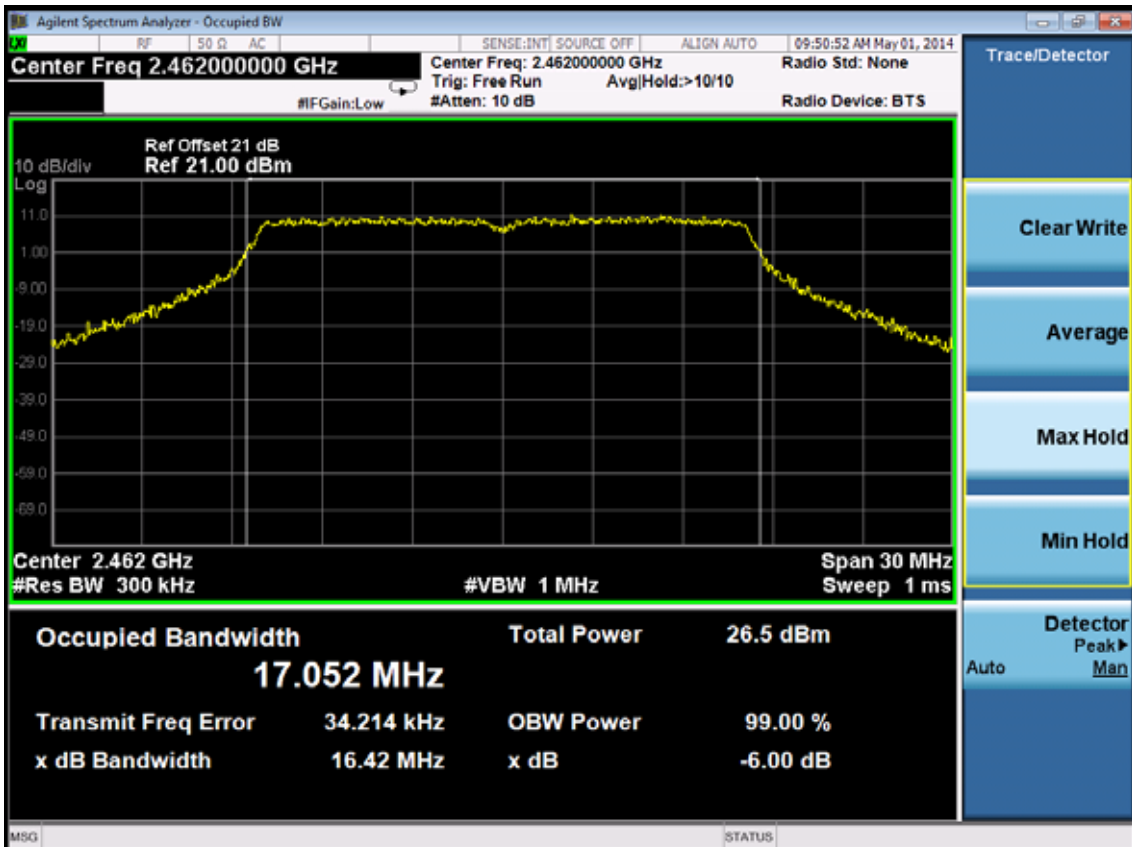
Test CH1: 2412MHz



Test CH6: 2437MHz

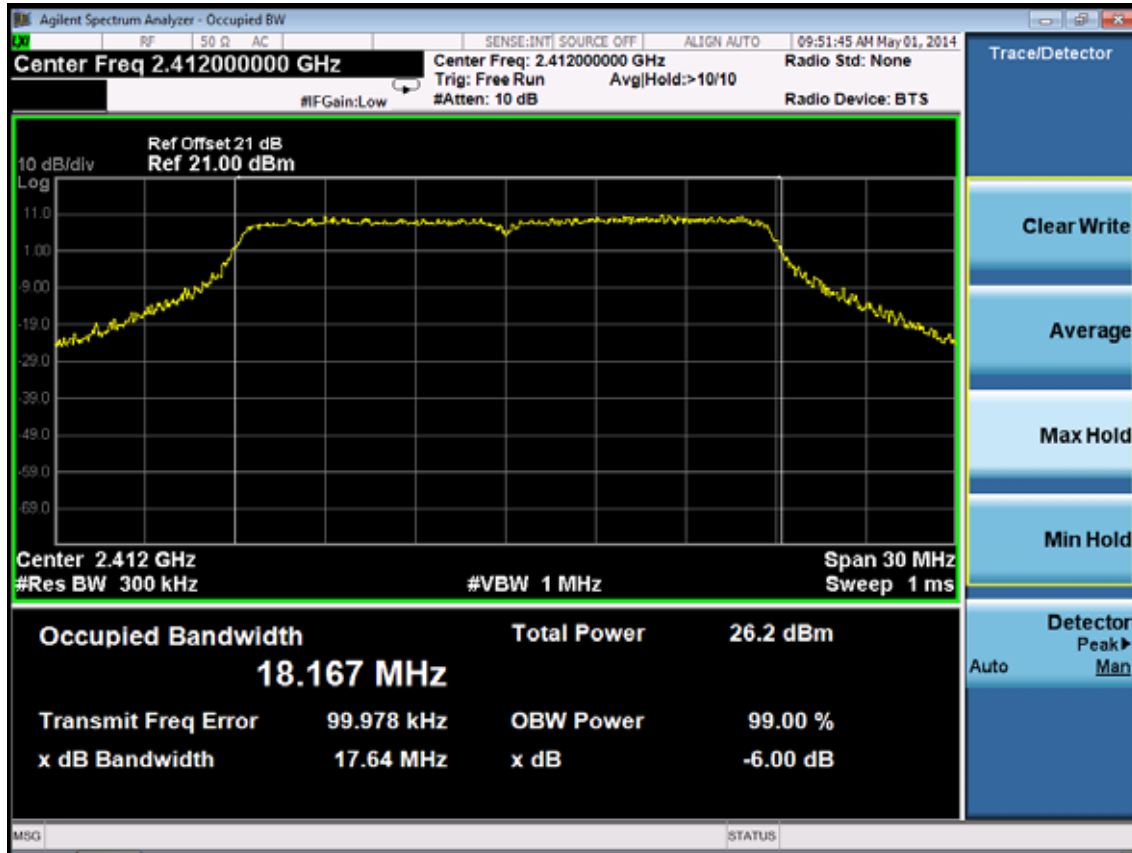


Test CH11: 2462MHz

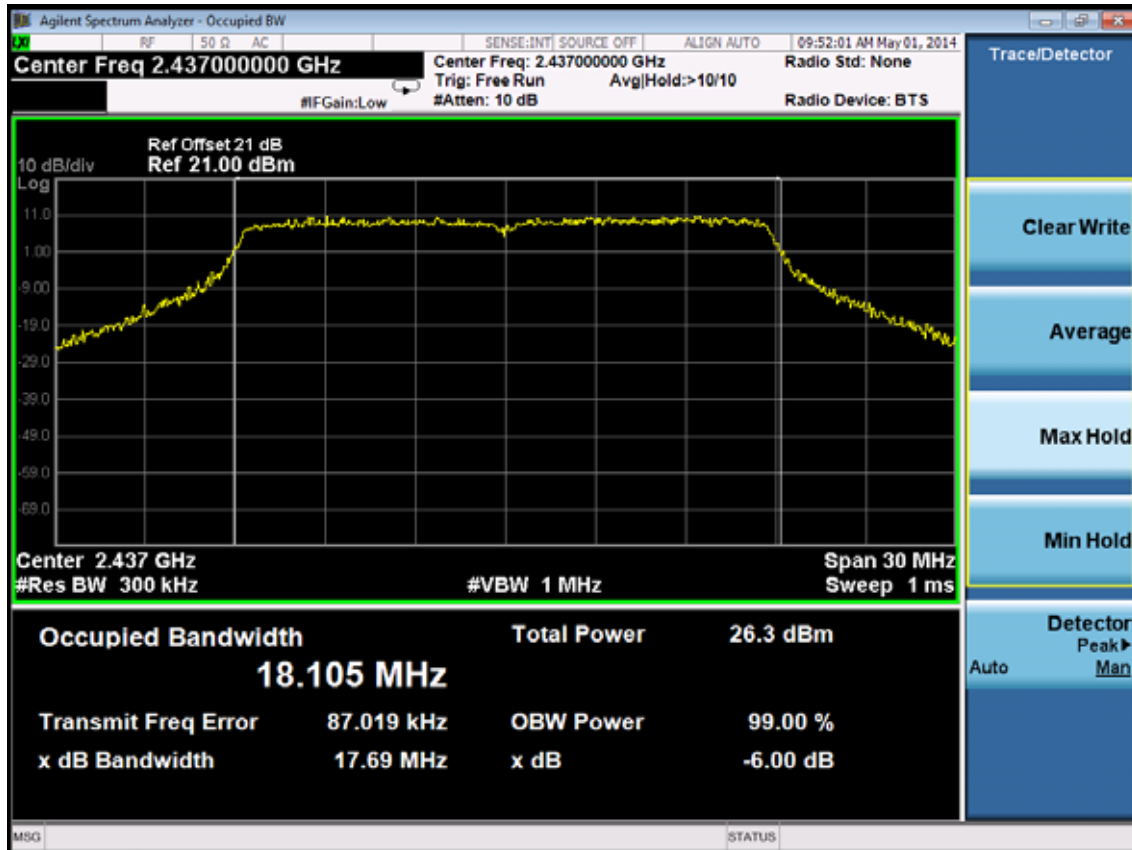


Test Mode: IEEE 802.11n HT20 TX

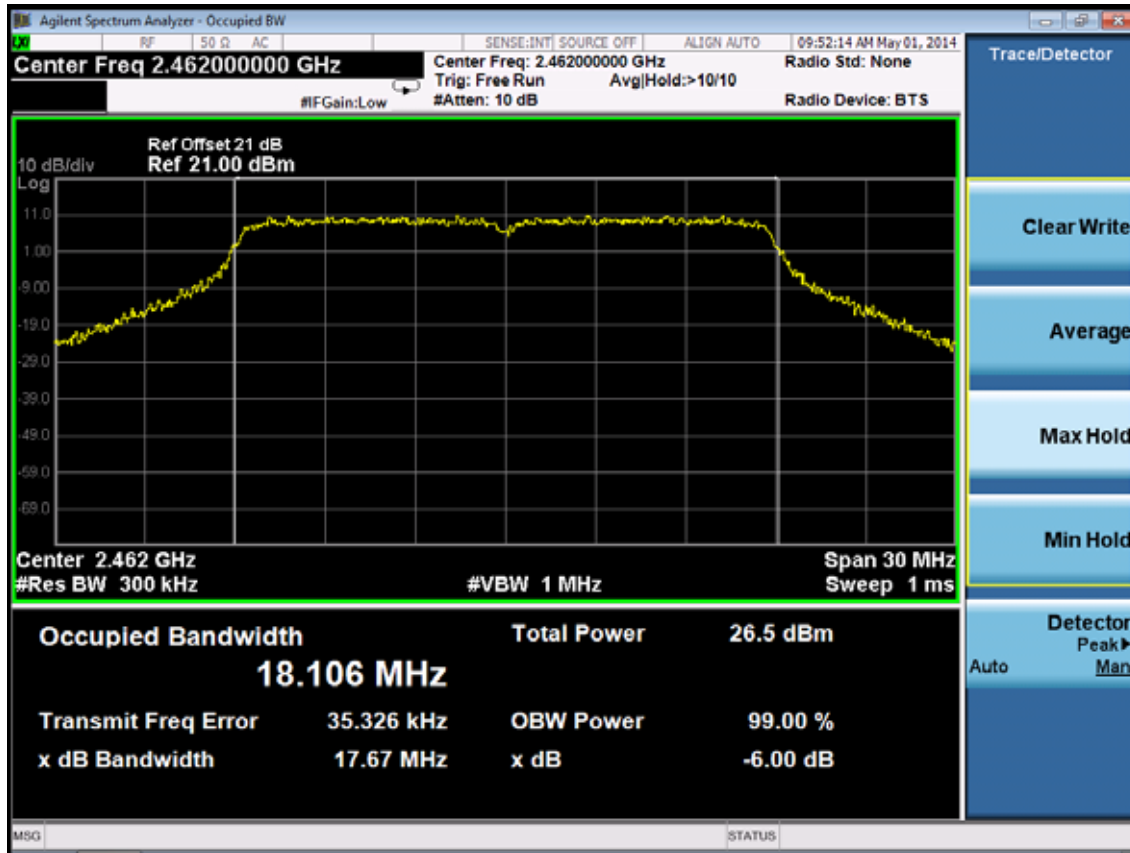
Test CH1: 2412MHz



Test CH6: 2437MHz

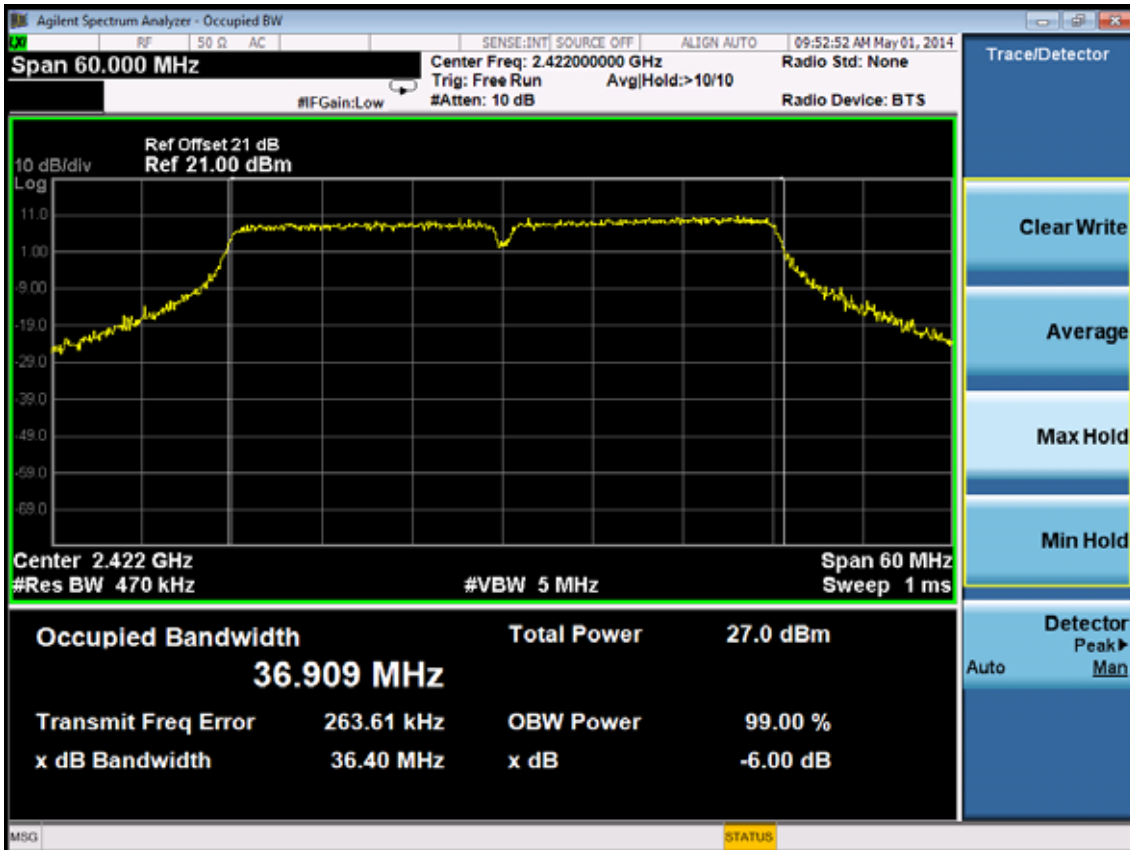


Test CH11: 2462MHz

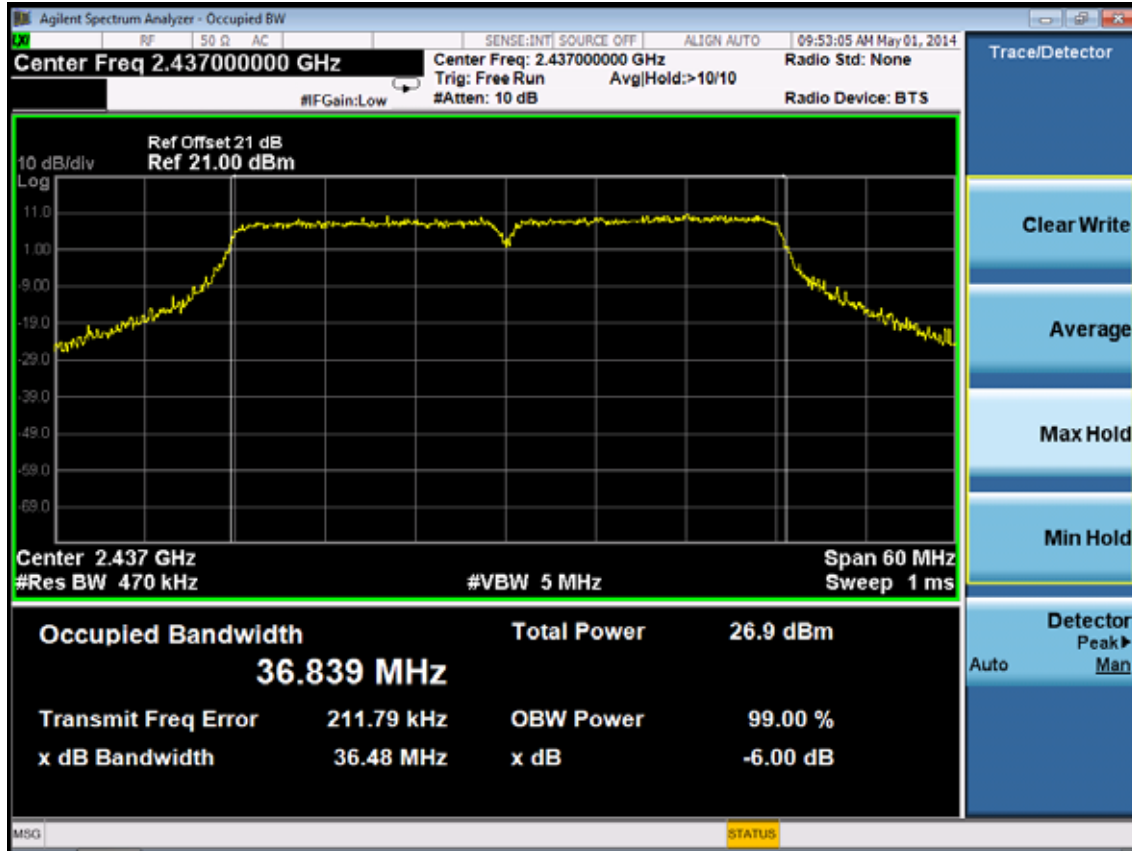


Test Mode: IEEE 802.11n HT40 TX

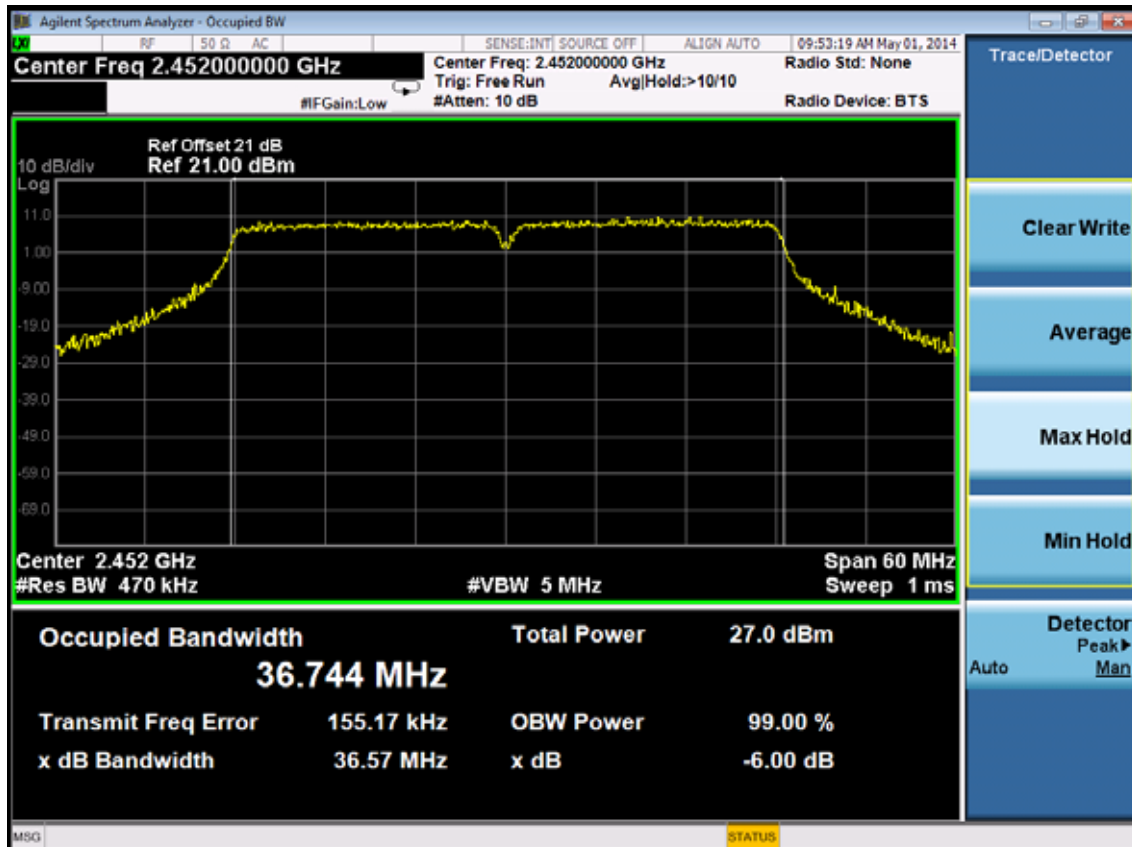
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



9. OUTPUT POWER TEST

9.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 13	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1Year
3.	Power meter	Anritsu	ML2487A	6K00002472	May.08, 13	1Year
4.	Power sensor	Anritsu	MA2491A	0033005	May.08, 13	1Year
5.	Attenuator(20dB)	Agilent	8491B	MY39262165	May.08, 13	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08, 13	1 Year

9.2.Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

9.3.Test Procedure

- 1, Connected the EUT's antenna port to measure device by 26dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So used the test method per KDB558074.
 - 1) Set the RBW=1MHz and VBW =3MHz
 - 2) Set the span to a value that is 5-30% greater than EBW
 - 3) Detector = peak
 - 4) Sweep time = auto couple
 - 5) Trace Mode = max hold
 - 6) allow trace to fully stabilize
 - 7) use the spectrum analyzer's integrated band power measurement function with band limits set equal to the EBW band edges.

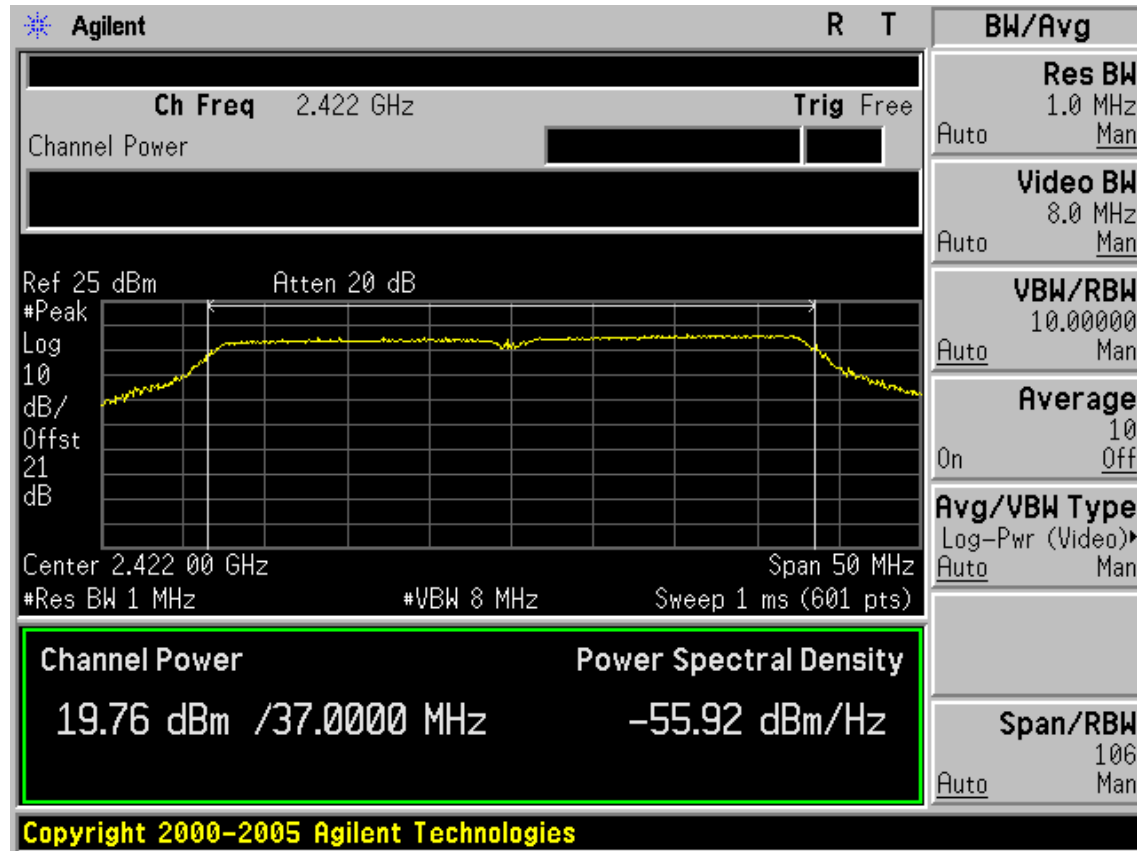
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

9.4. Test Results

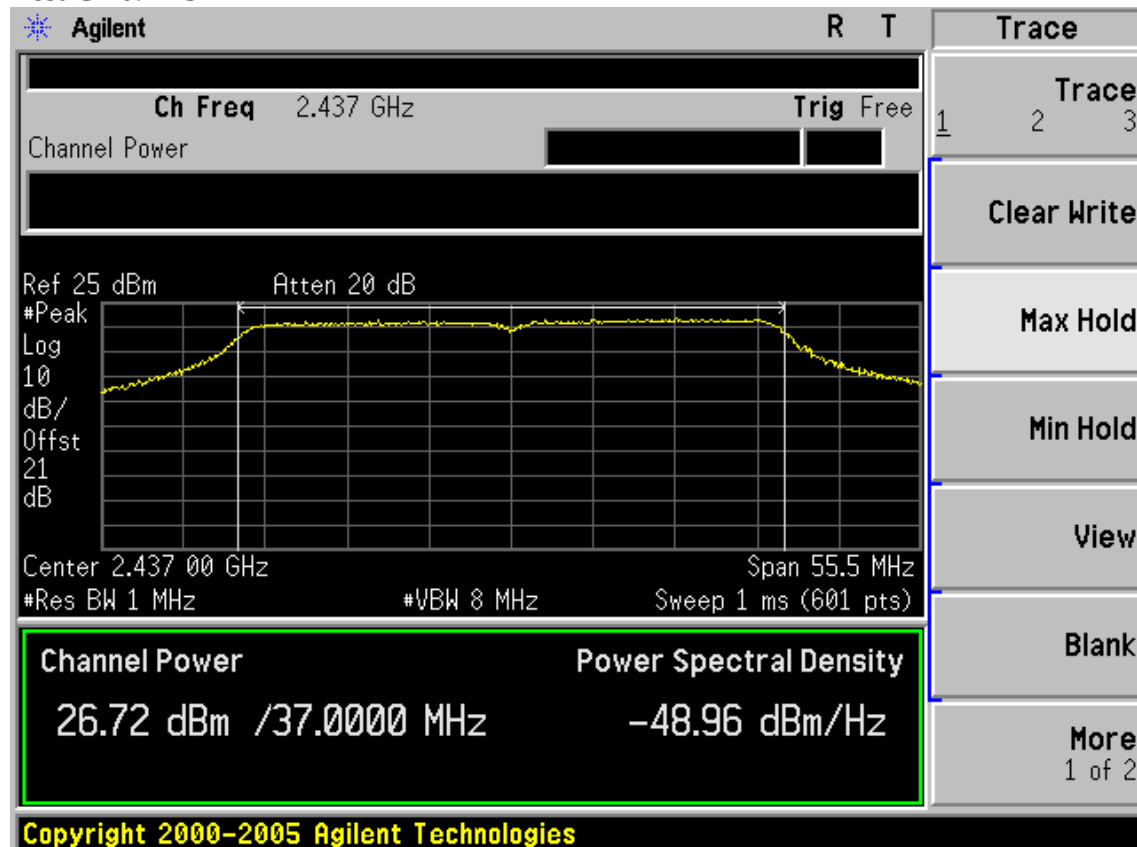
EUT: 2.4GHz 150Mbps High Power Wireless Access Point			
M/N: TL-WA7110ND			
Test date:2014-05-01	Pressure: 101.4±1.0kpa	Humidity: 53.5±3.0 %	
Tested by:Leo-Li	Test site: RF site	Temperature: 22.5±0.6 °C	
Cable loss: 1.0dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
11b	CH1	21.32	30
	CH6	23.95	30
	CH11	23.65	30
11g	CH1	21.76	30
	CH6	24.32	30
	CH11	22.34	30
11nHT20	CH1	20.90	30
	CH6	22.80	30
	CH11	20.12	30
11nHT40	CH1	19.76	30
	CH4	26.72	30
	CH7	19.76	30
Conclusion: PASS			

Test Mode: IEEE 802.11n HT40

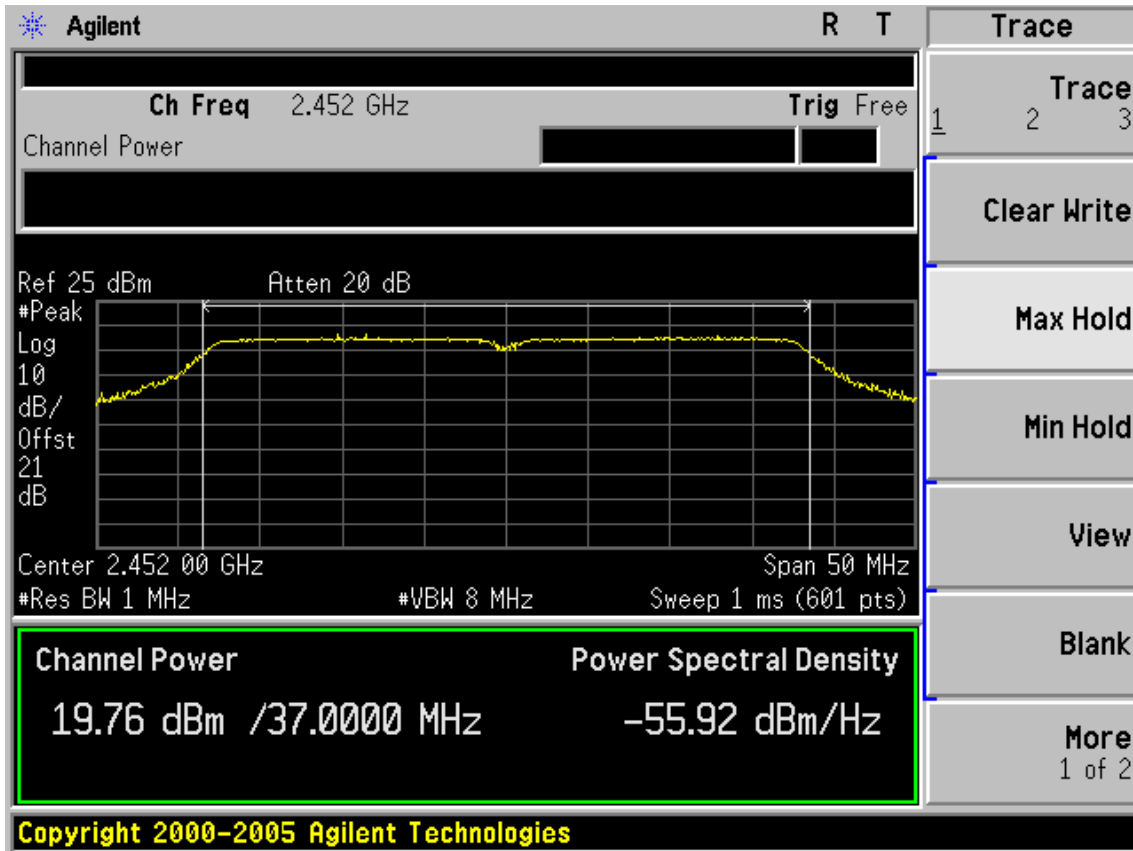
Test CH1: 2422MHz



Test CH6: 2437MHz



Test CH11: 2452MHz



10. POWER SPECTRAL DENSITY TEST

10.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4580	Aug.28, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

10.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

10.3. Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span=300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each chain's Power density.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude.

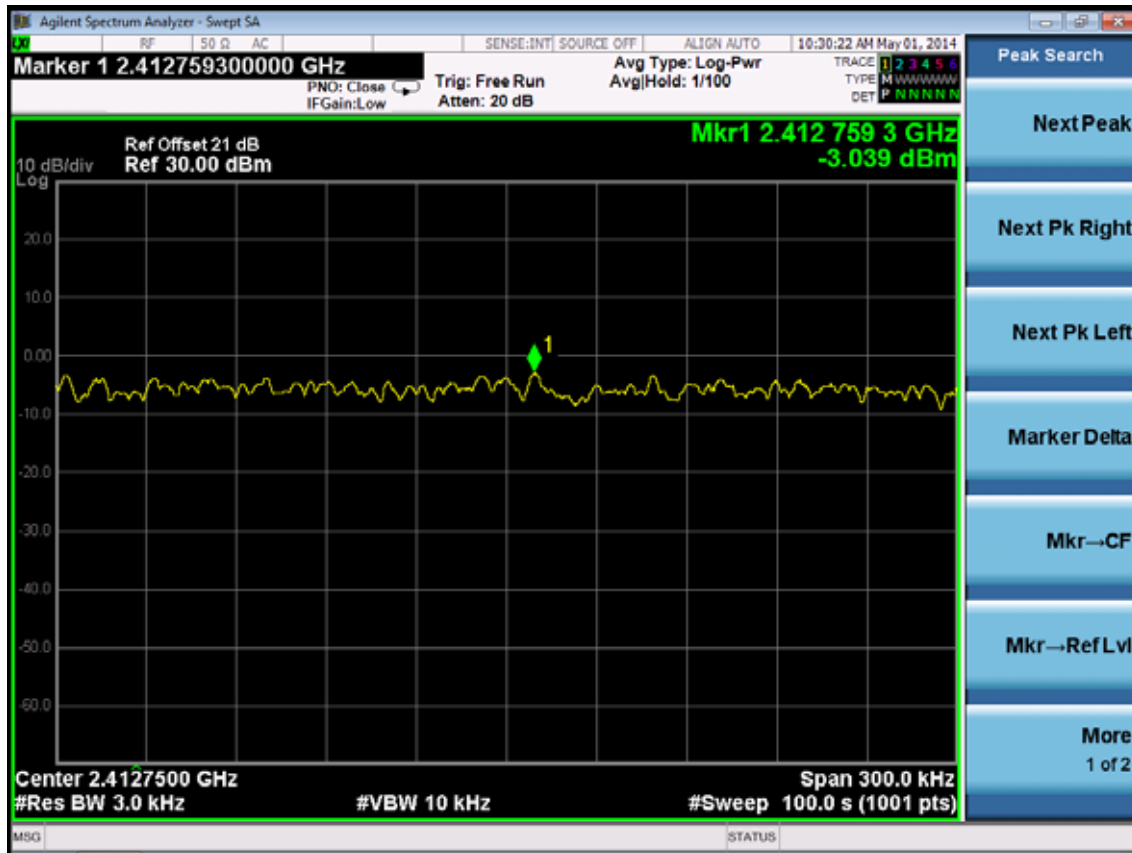
10.4.Test Results

EUT: 2.4GHz 150Mbps High Power Wireless Access Point		
M/N: TL-WA7110ND		
Test date:2014-05-01	Pressure: 101.5±1.0kpa	Humidity: 53.7±3.0 %
Tested by:Leo-Li	Test site: RF site	Temperature: 23.3±0.6 °C

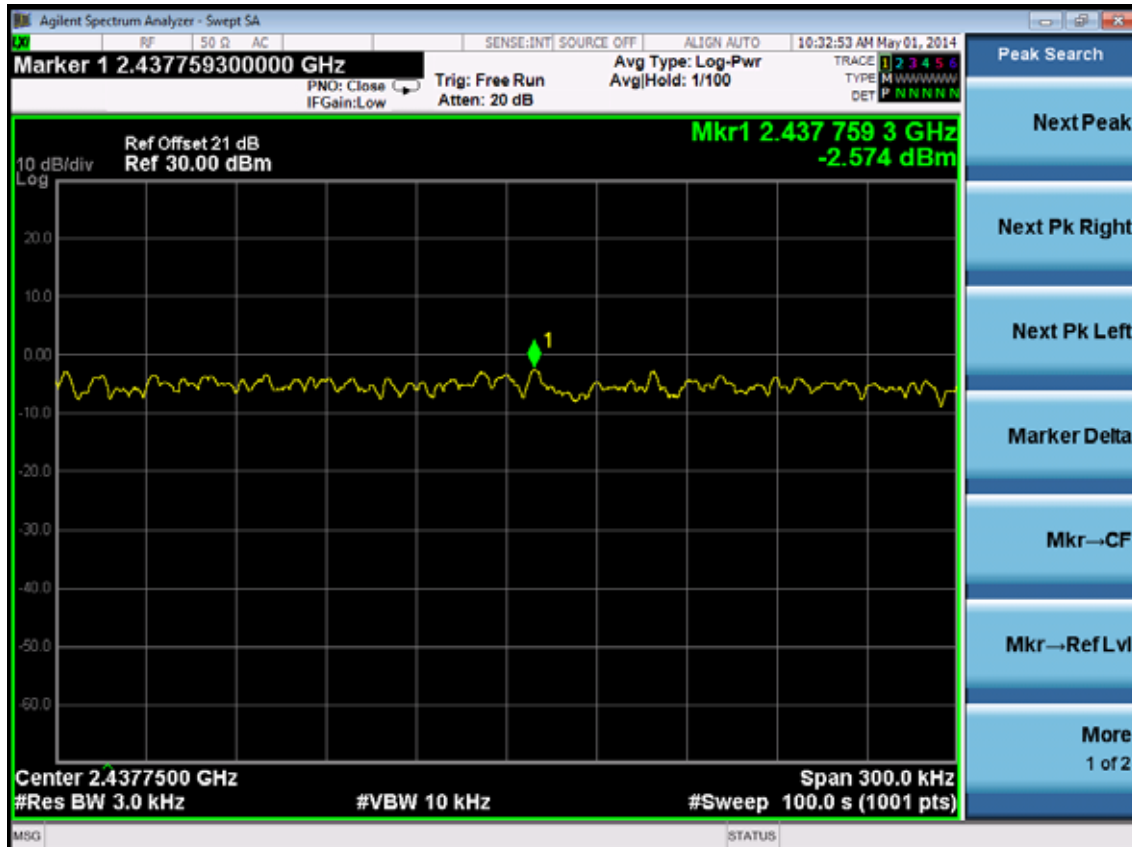
Duty cycle X: 100%			
Test Mode	CH	Result	Limit
		(dBm/3kHz)	(dBm/3kHz)
11b	CH1	-3.039	8
	CH6	-2.574	8
	CH11	-1.880	8
11g	CH1	-5.327	8
	CH6	-3.419	8
	CH11	-4.393	8
11n HT20	CH1	-7.081	8
	CH6	-4.689	8
	CH11	-7.514	8
11nHT40	CH1	-5.599	8
	CH4	-9.655	8
	CH7	-8.997	8
Conclusion: PASS			

Test Mode: IEEE 802.11b TX

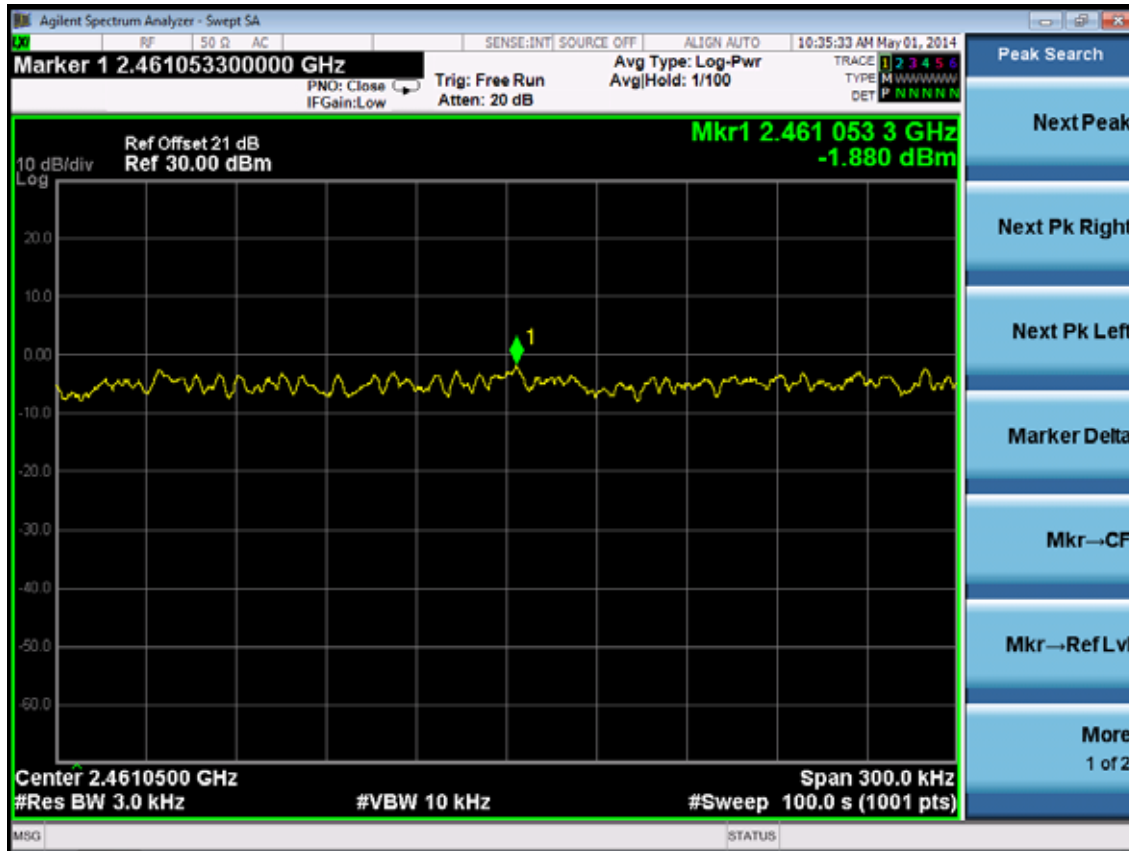
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

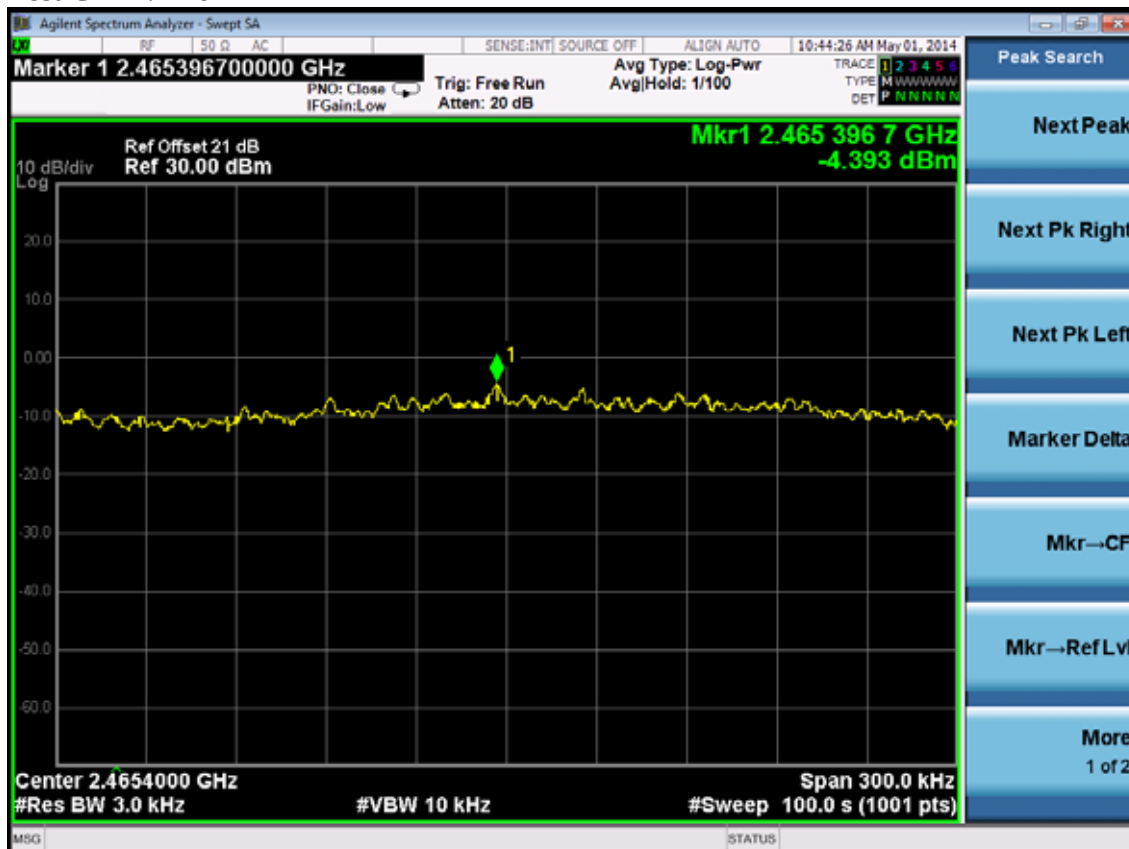
Test CH1: 2412MHz



Test CH6: 2437MHz

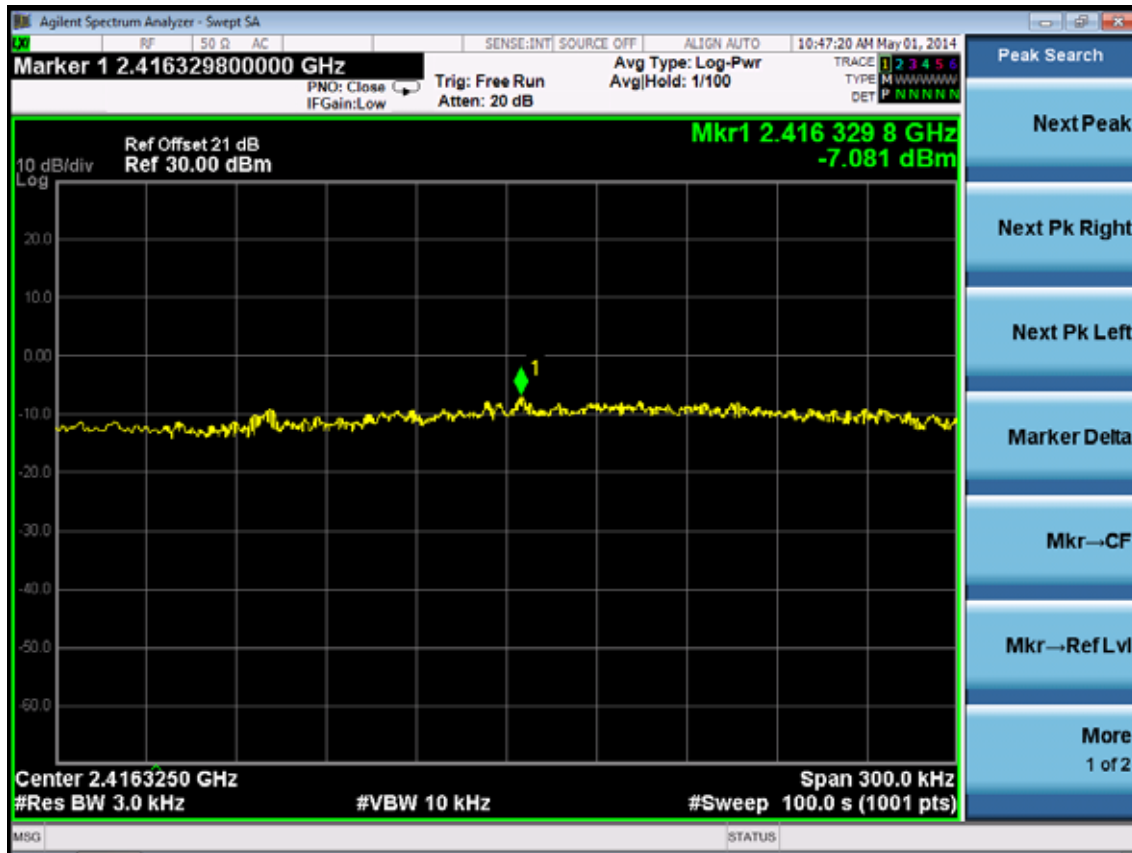


Test CH11: 2462MHz

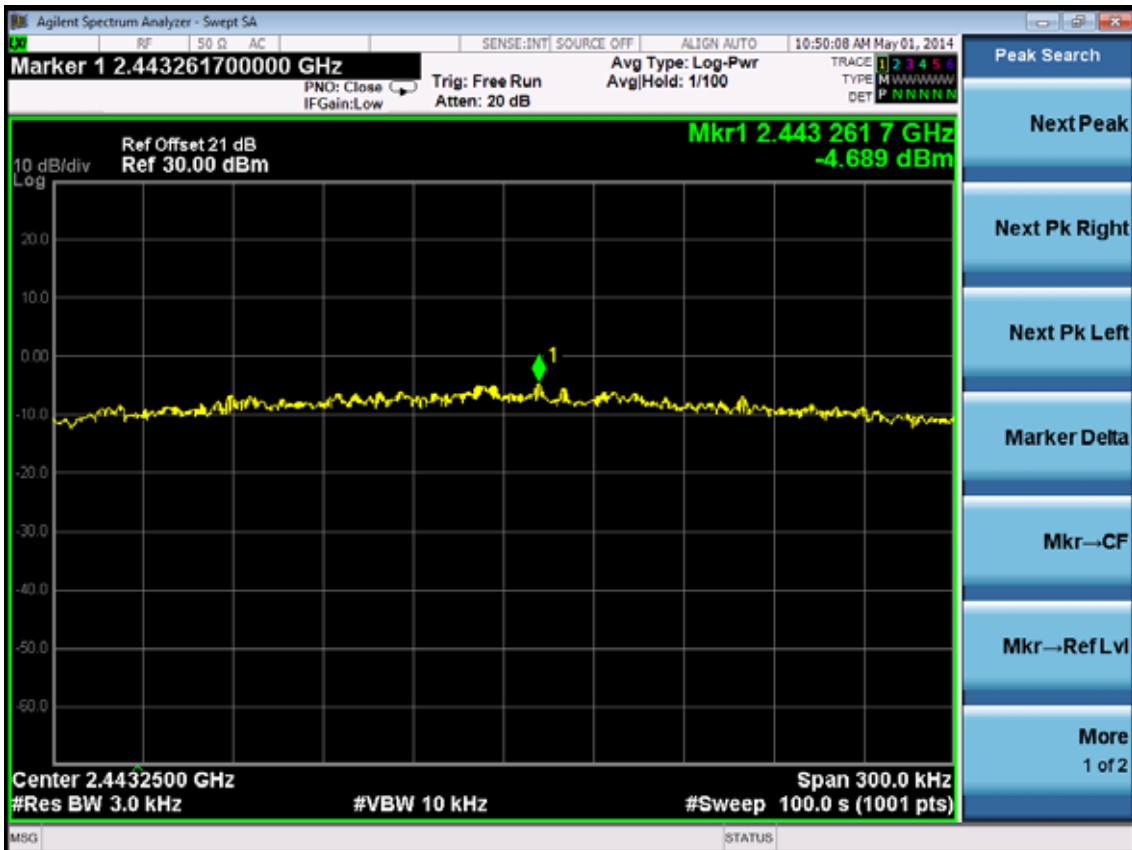


Test Mode: IEEE 802.11n HT20 TX

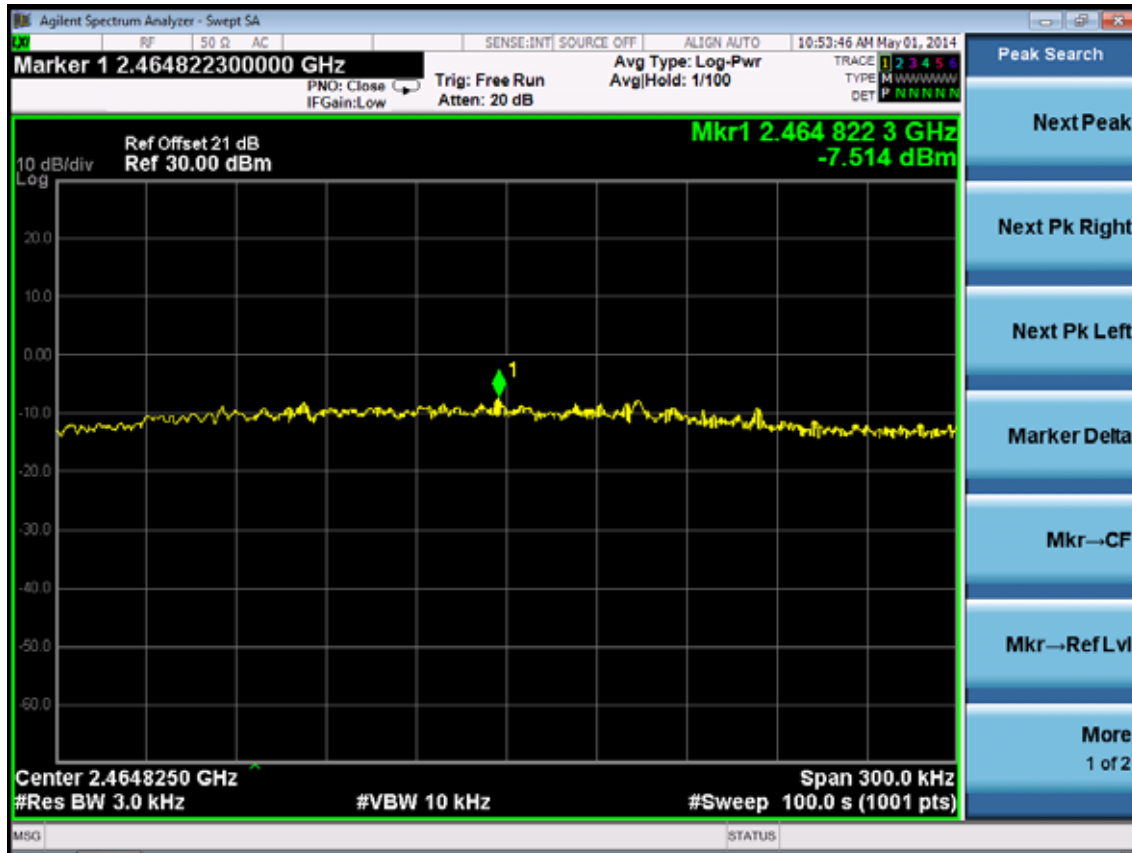
Test CH1: 2412MHz



Test CH6: 2437MHz

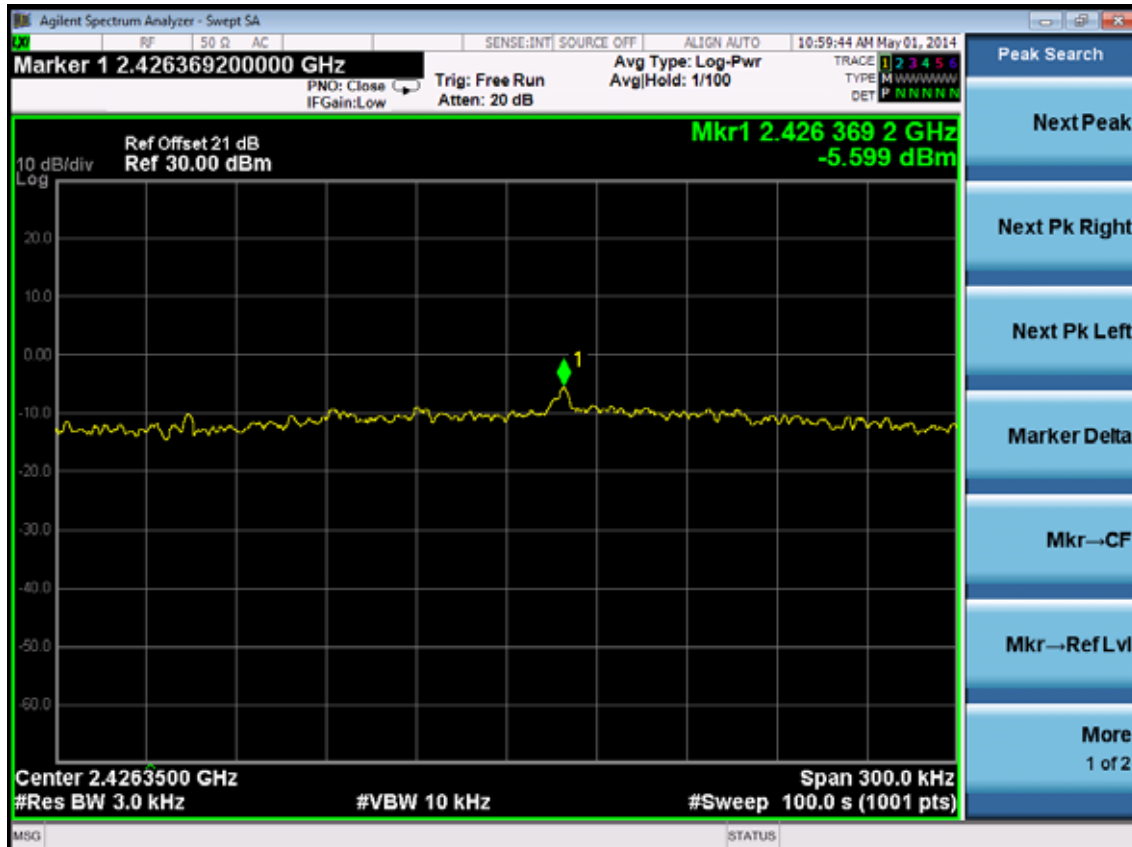


Test CH11: 2462MHz

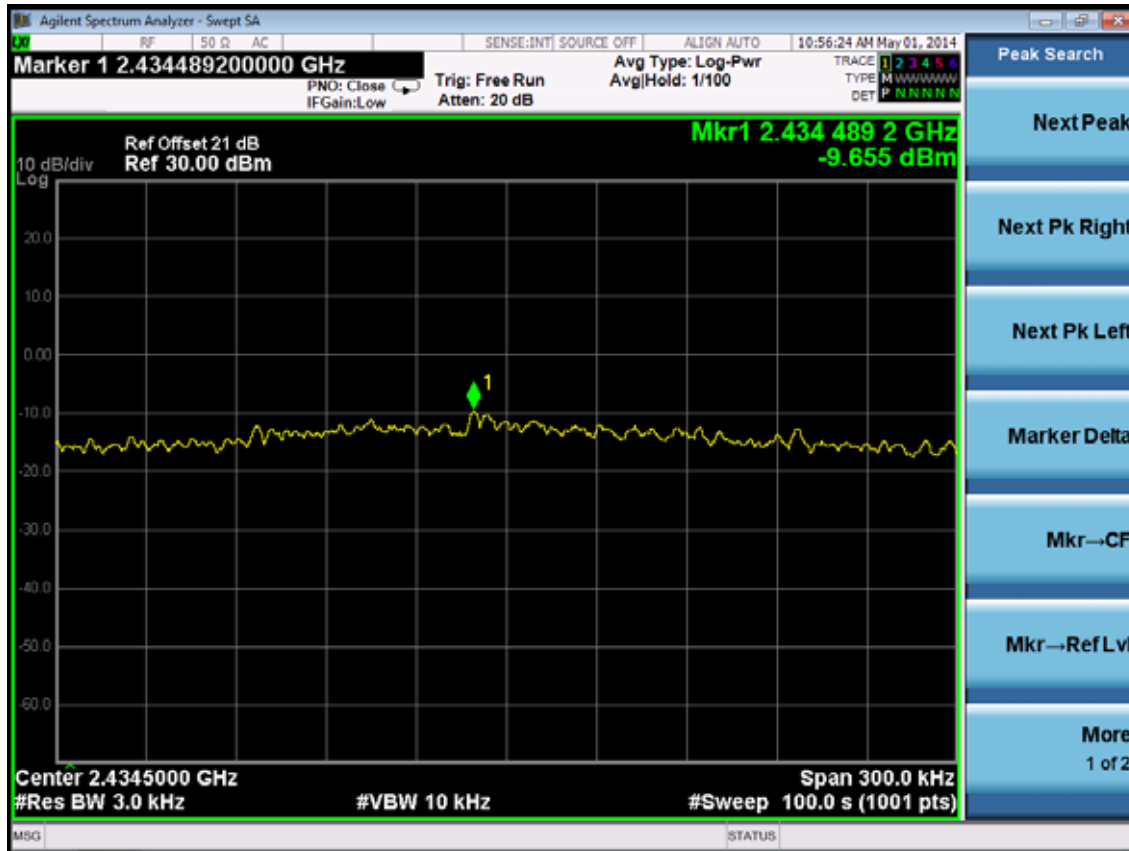


Test Mode: IEEE 802.11n HT40 TX

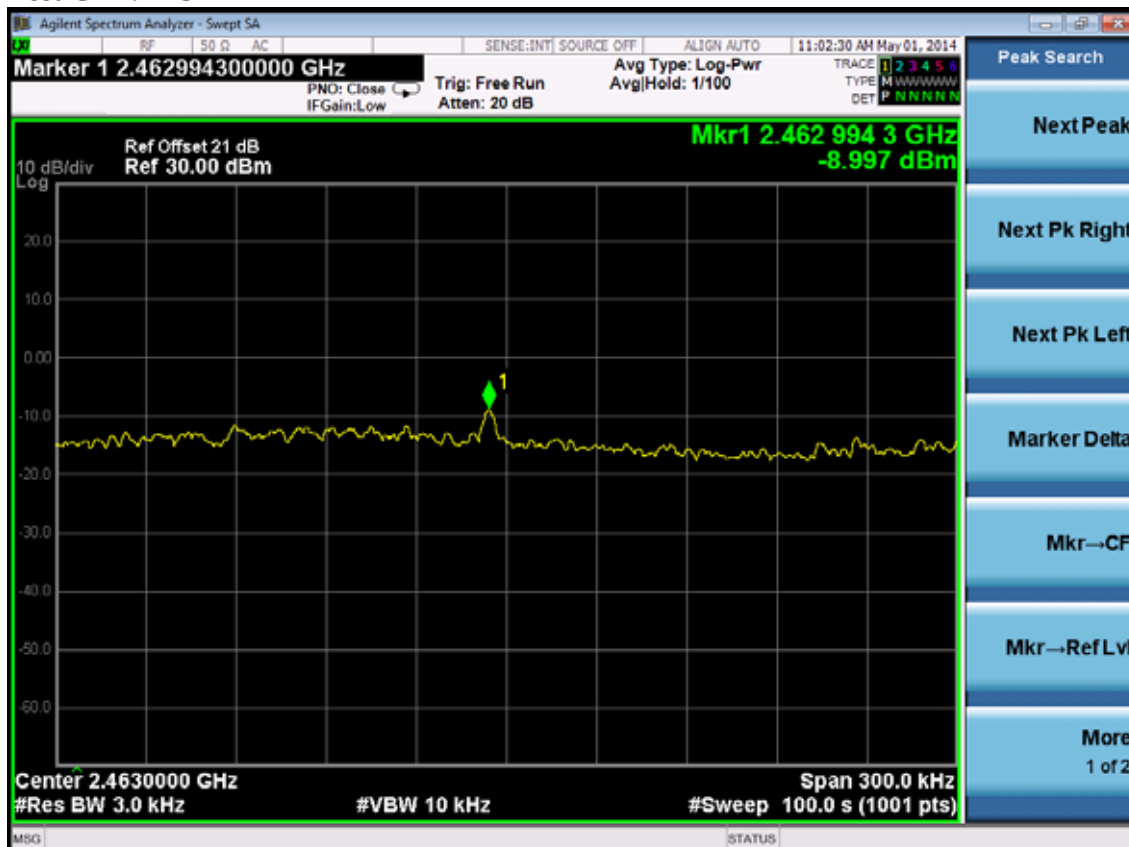
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz Estimation Result

EUT: 2.4GHz 150Mbps High Power Wireless Access Point		
M/N: TL-WA7110ND		
Test date: 2014-05-01	Pressure: 101.1±1.0 kpa	Humidity: 52.5±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 5dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	21.32	135.52	5	3.16	0.0853
	CH6	2437	23.95	248.31	5	3.16	0.1563
	CH11	2462	23.65	231.74	5	3.16	0.1459
11g	CH1	2412	21.76	149.97	5	3.16	0.0944
	CH6	2437	24.32	270.40	5	3.16	0.1702
	CH11	2462	22.34	171.40	5	3.16	0.1079
11n HT20	CH1	2412	20.90	123.03	5	3.16	0.0774
	CH6	2437	22.80	190.55	5	3.16	0.1199
	CH11	2462	20.12	102.80	5	3.16	0.0647
11n HT40	CH1	2422	19.76	94.62	5	3.16	0.0596
	CH4	2437	26.72	469.89	5	3.16	0.2958
	CH7	2452	19.76	94.62	5	3.16	0.0596

Note: $MPE = PG / 4 \pi R^2$ (R:20cm)

12. ANTENNA REQUIREMENT

12.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5dBi.

13.DEVIATION TO TEST SPECIFICATIONS

[NONE]