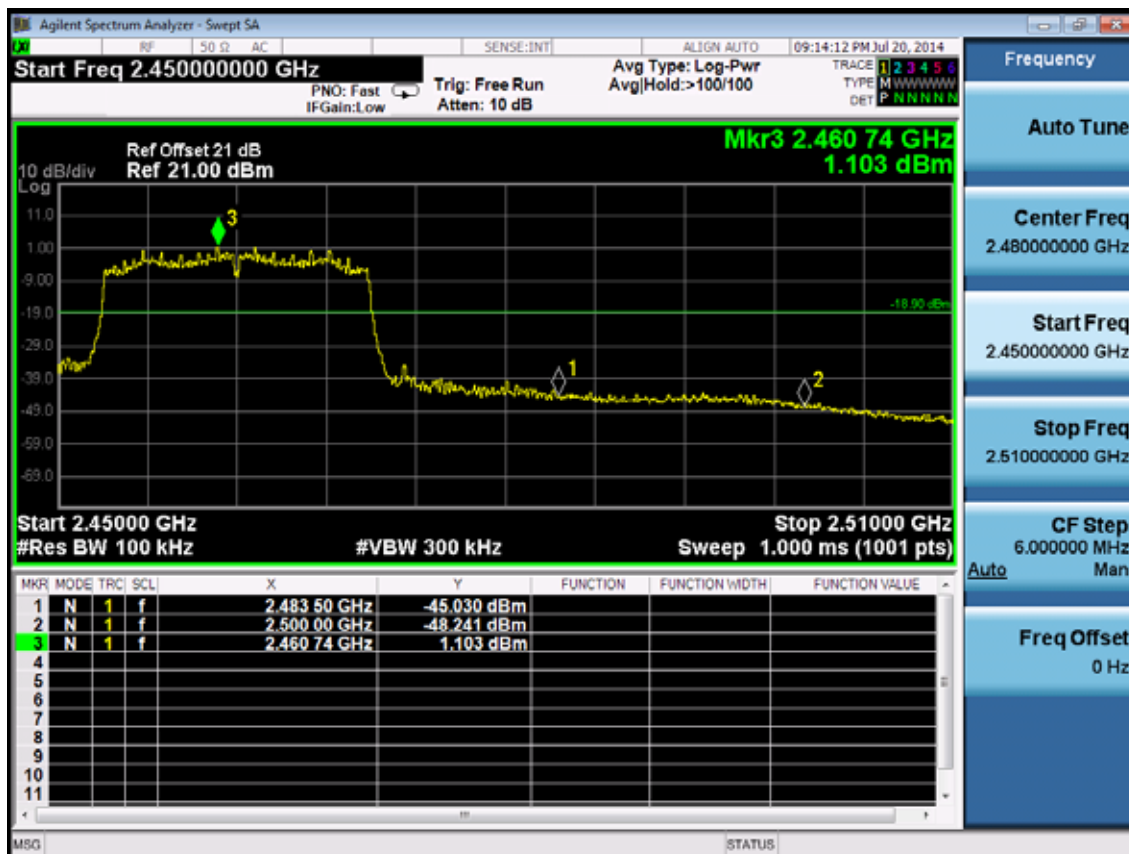
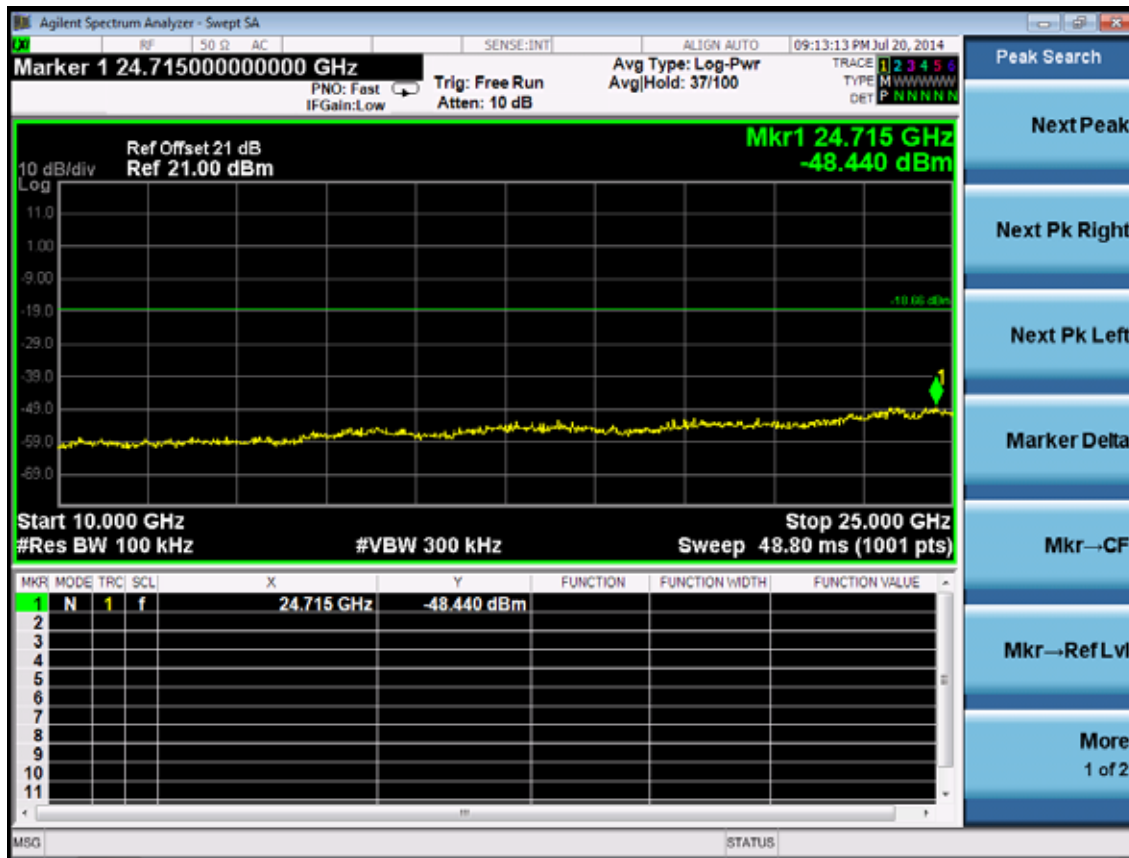
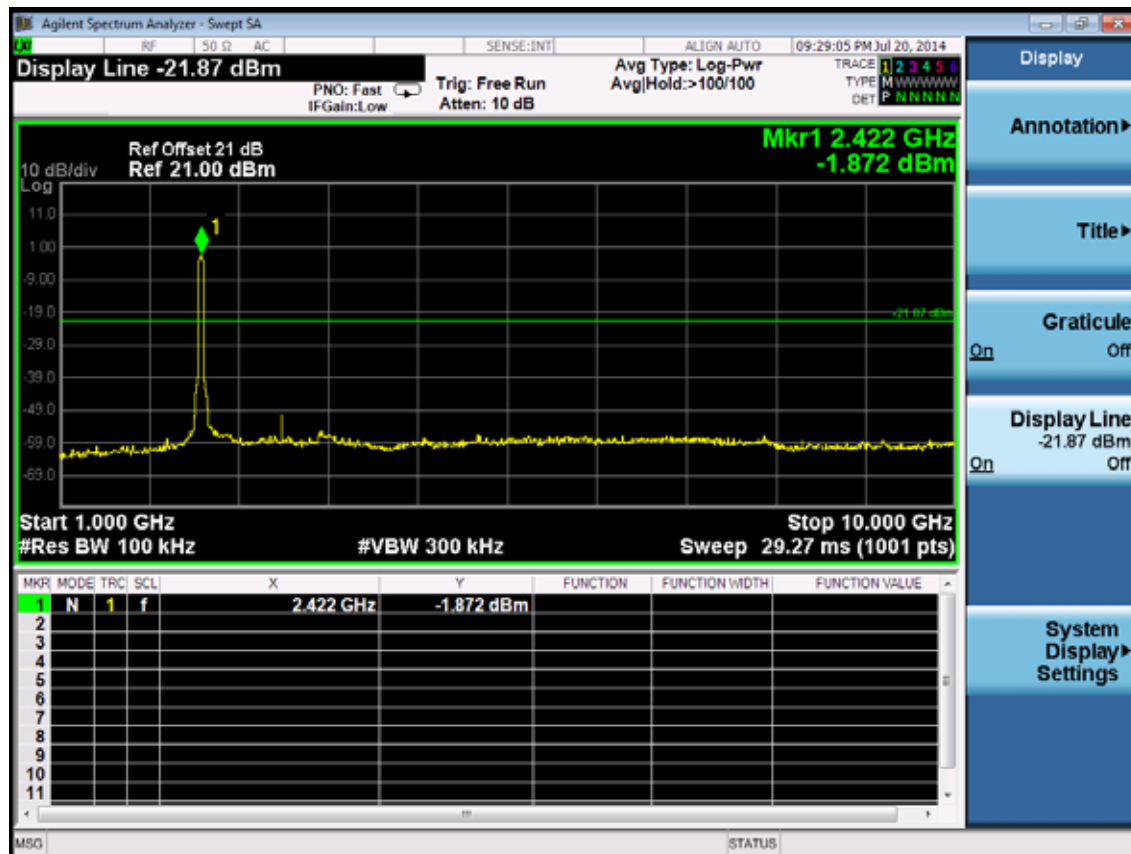
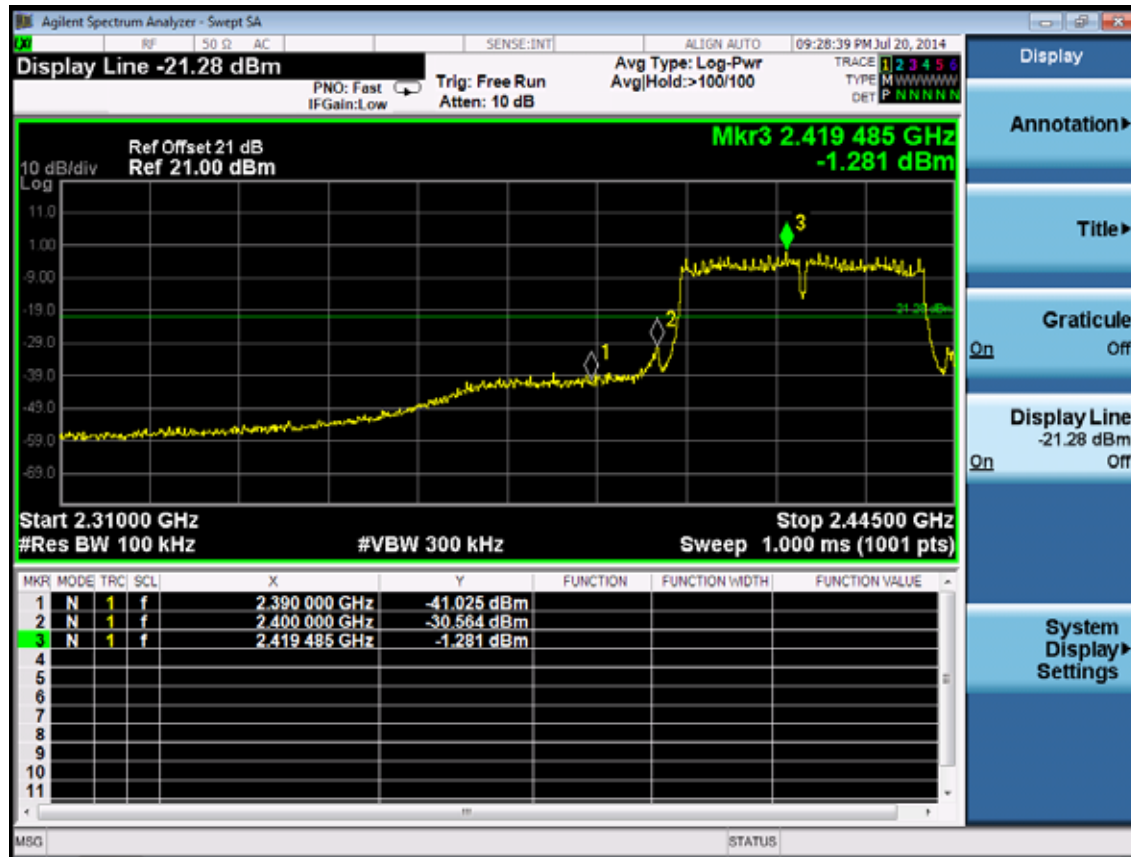
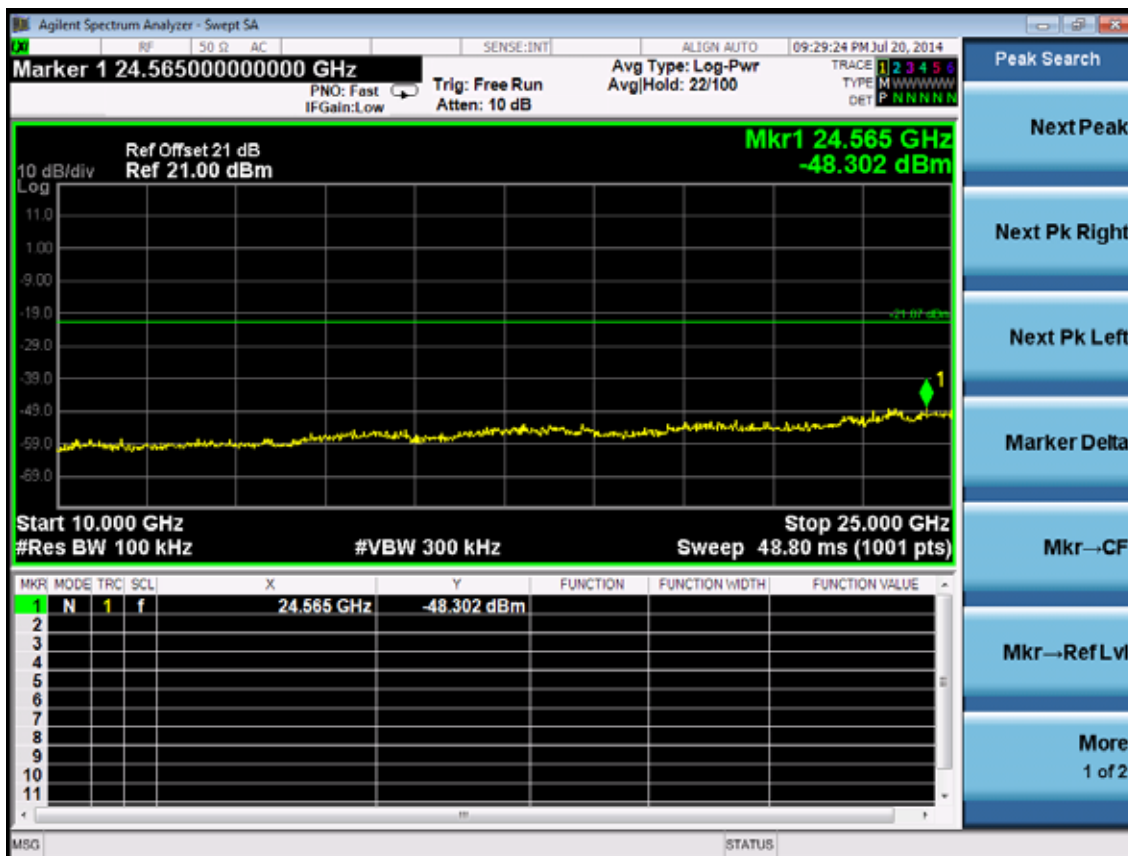
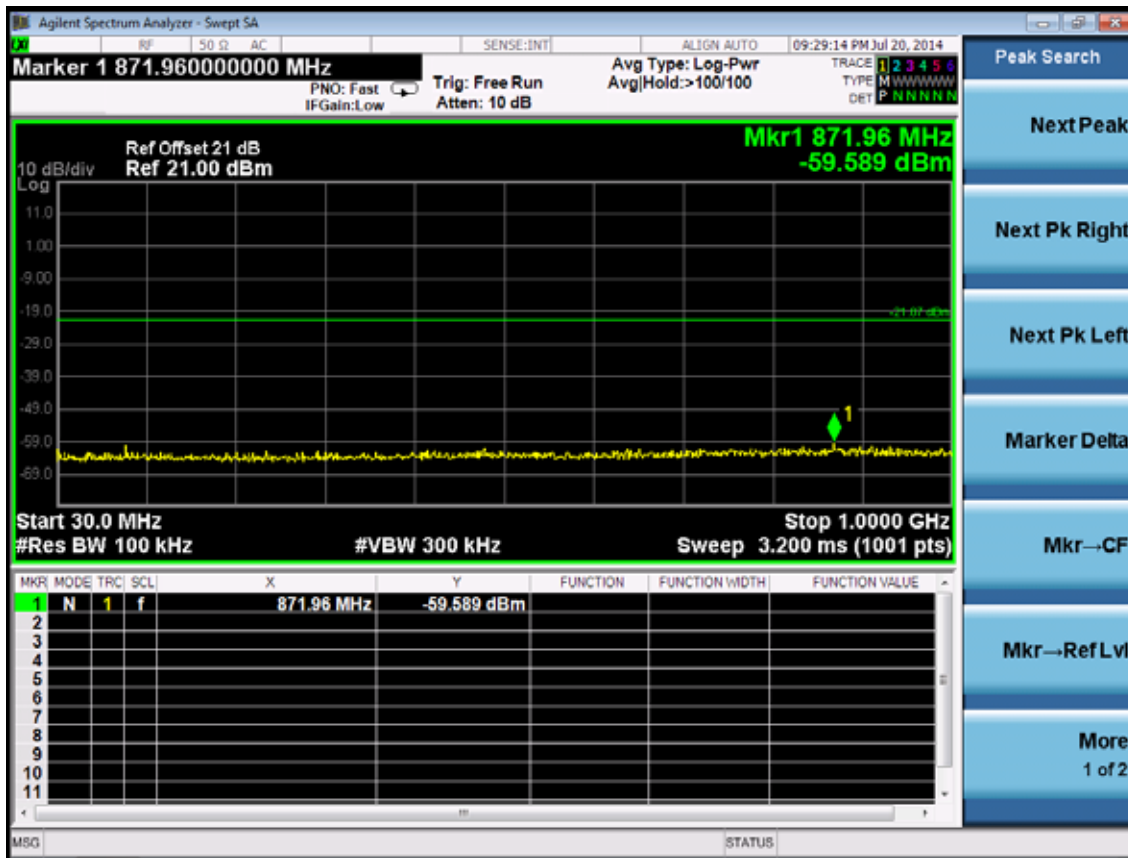




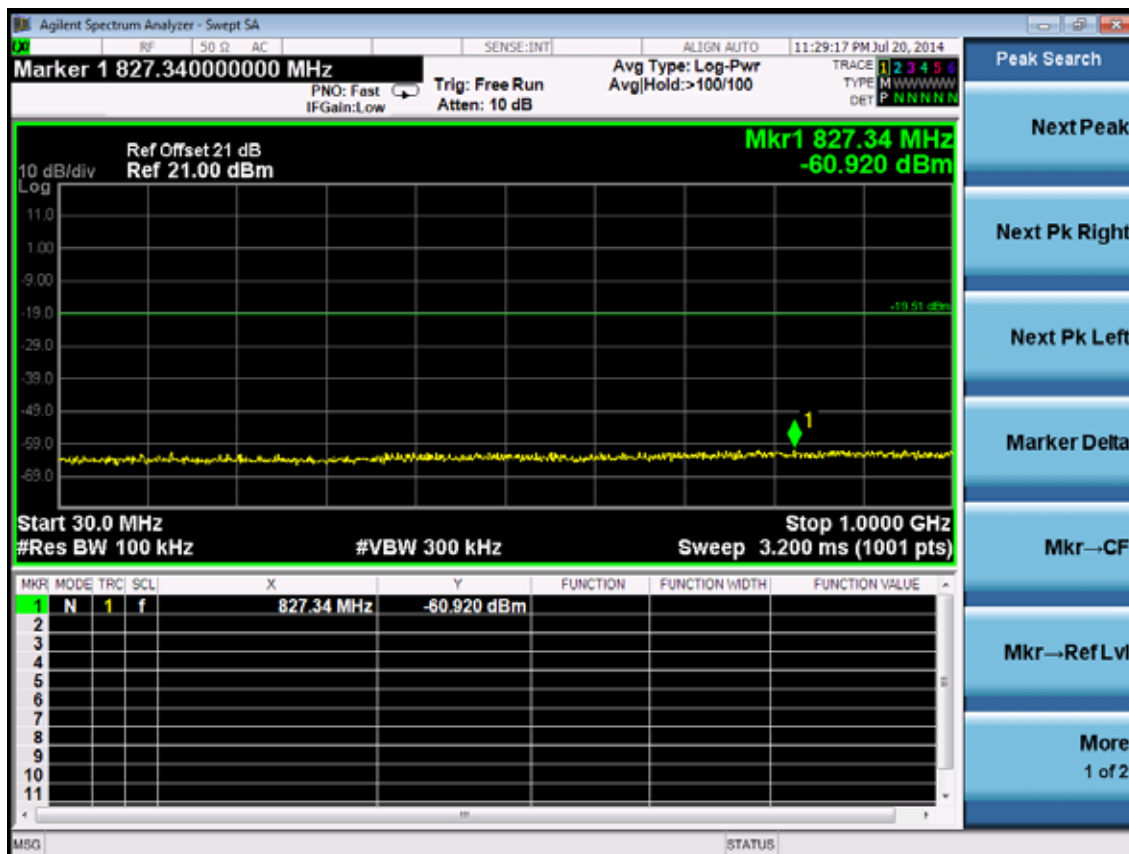
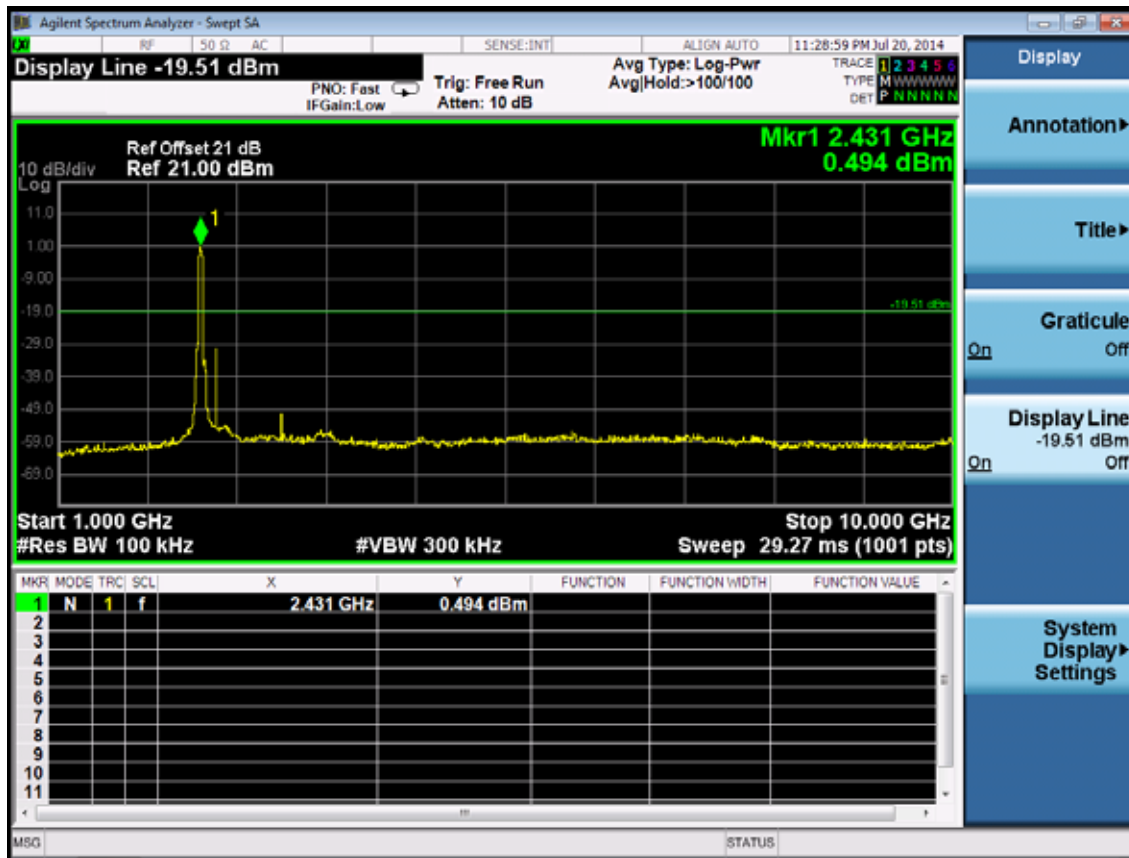
Test Mode: IEEE 802.11n HT40 TX

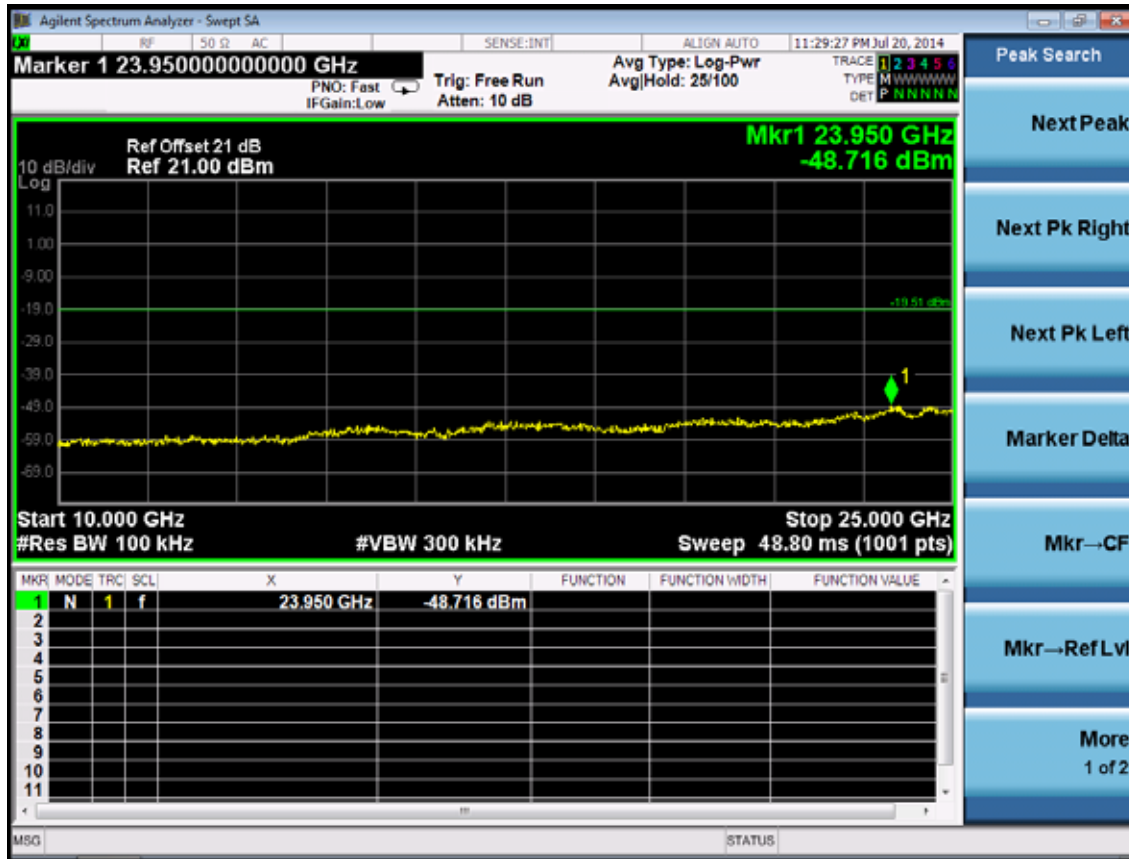
Test CH1: 2422MHz



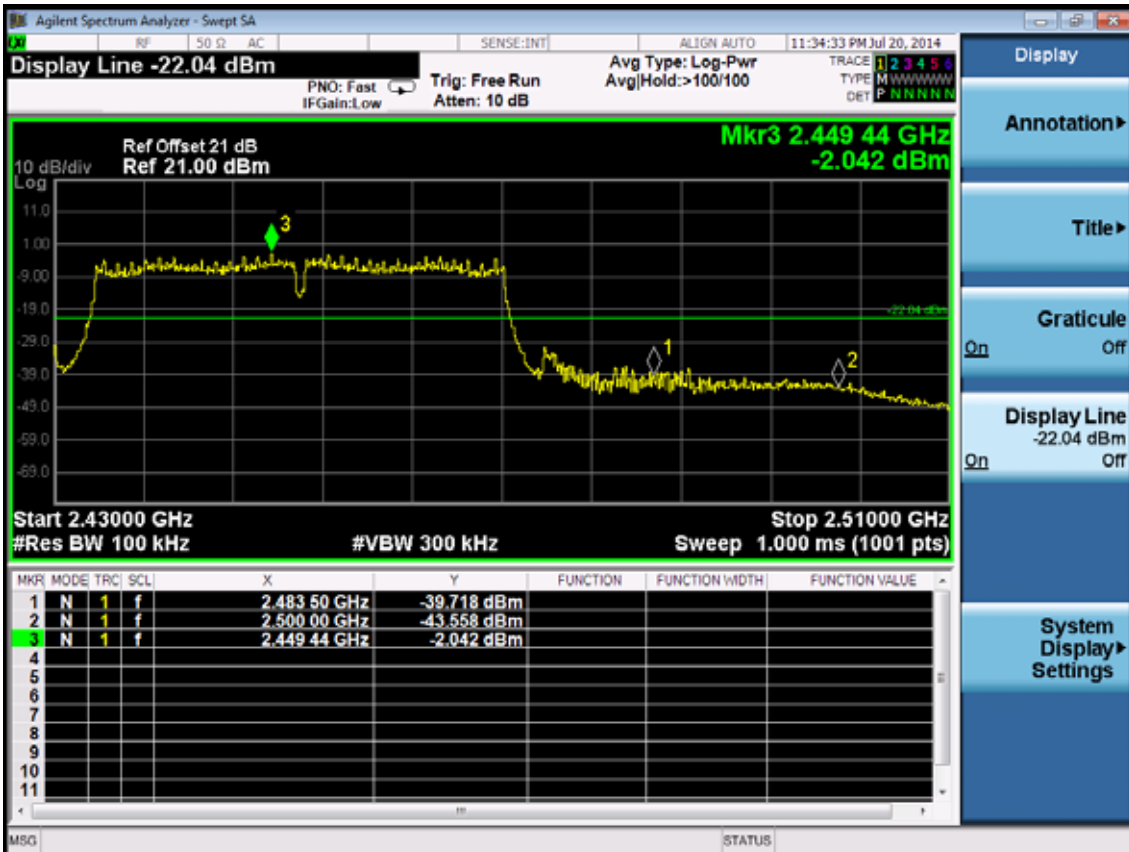


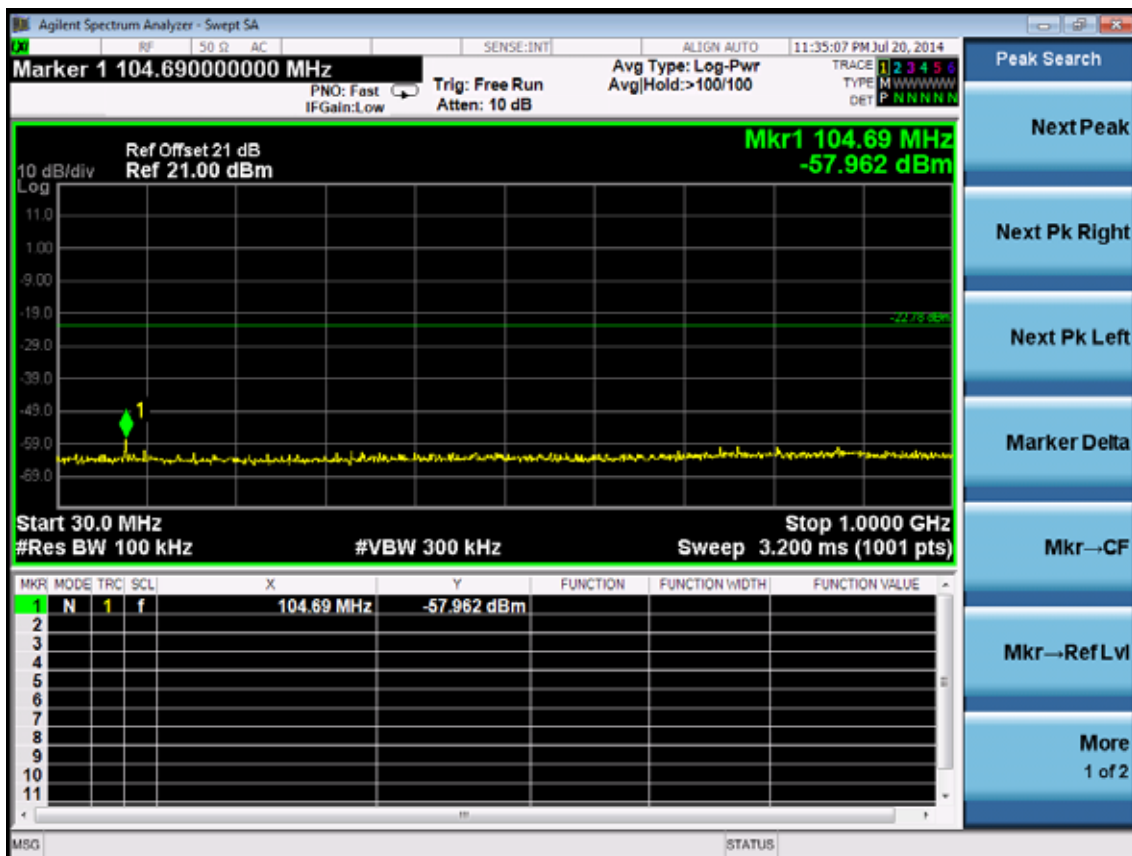
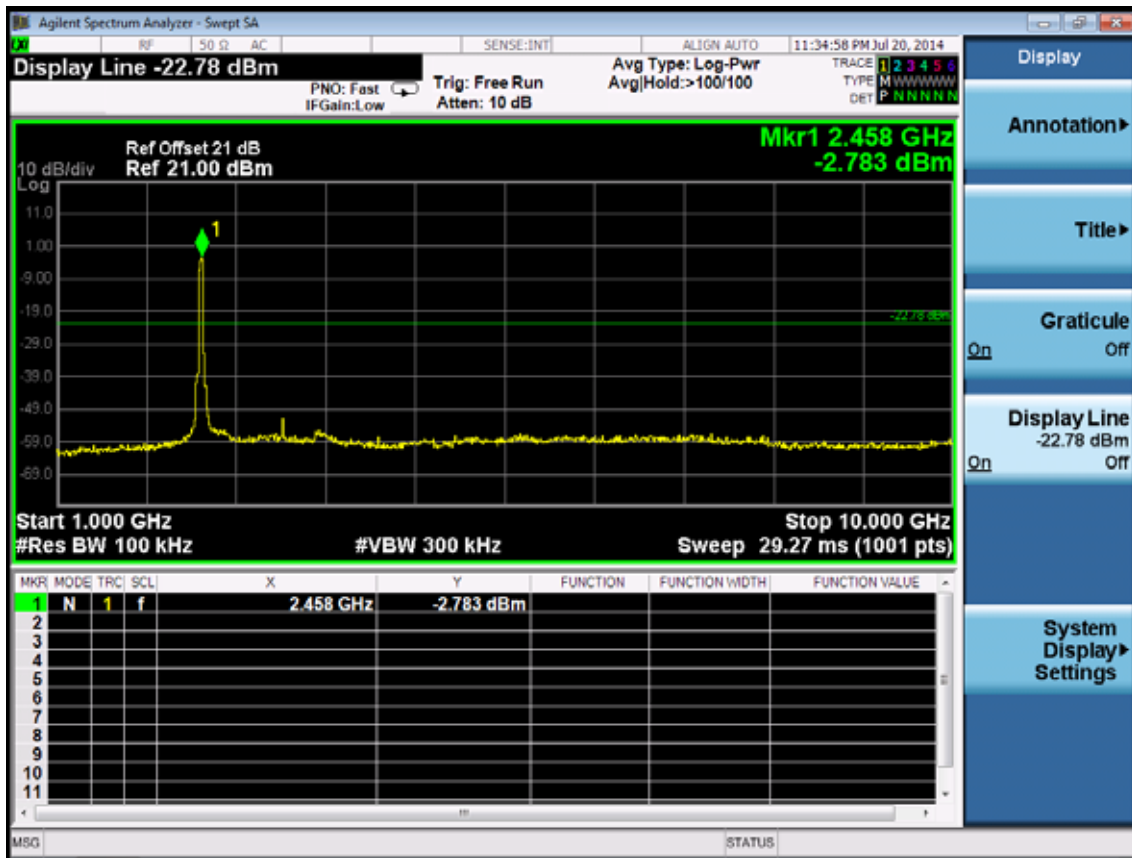
Test CH4: 2437MHz

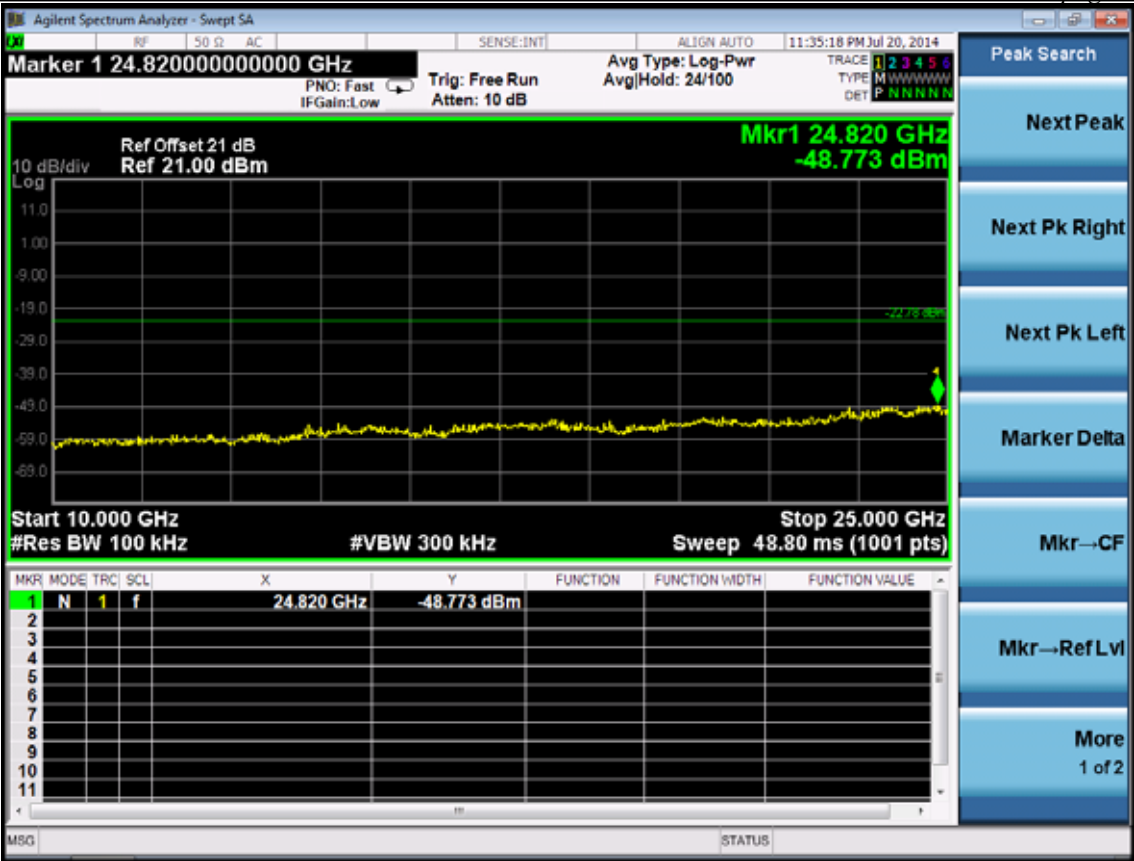




Test CH7: 2452MHz







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	Apr. 28,14	1 Year
2.	Amp	HP	8449B	3008A02495	Apr. 28,14	1 Year
3.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
4.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,14	1 Year
5	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,14	1 Year

6.2. Limit

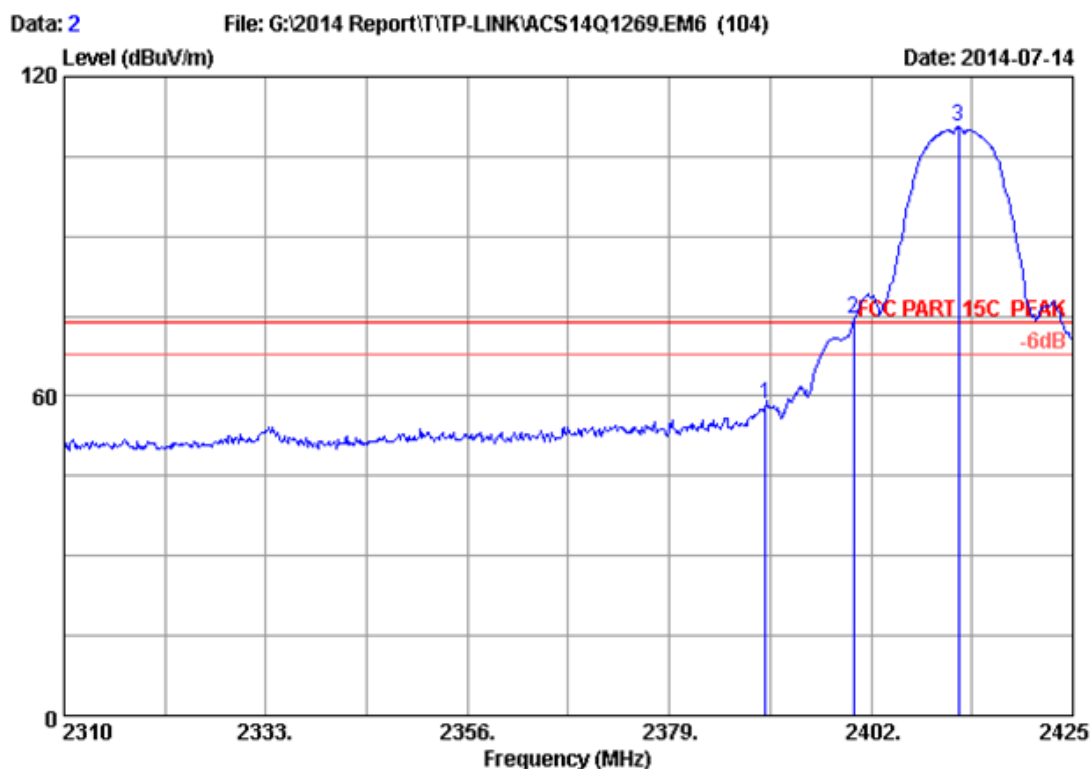
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

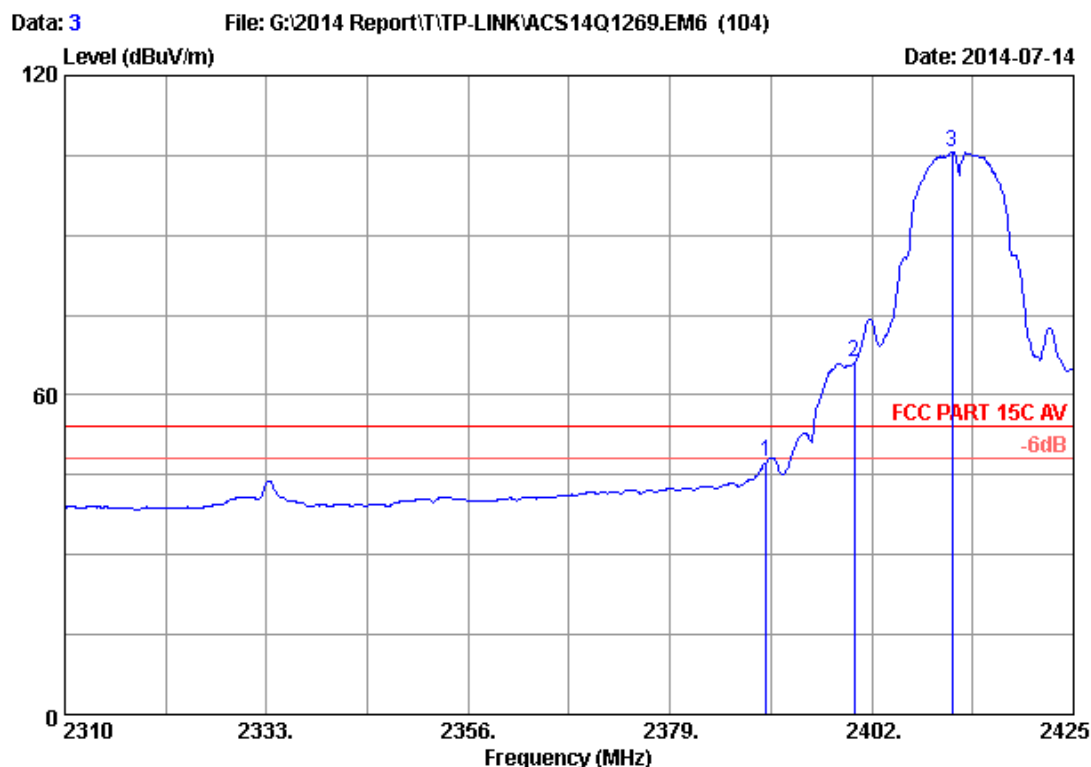
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TD-W8970

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	60.11	58.35	74.00	15.65	Peak
2	2400.000	28.18	5.80	35.70	76.38	74.66	74.00	-0.66	Peak
3	2412.005	28.21	5.81	35.70	112.20	110.52	74.00	-36.52	Peak

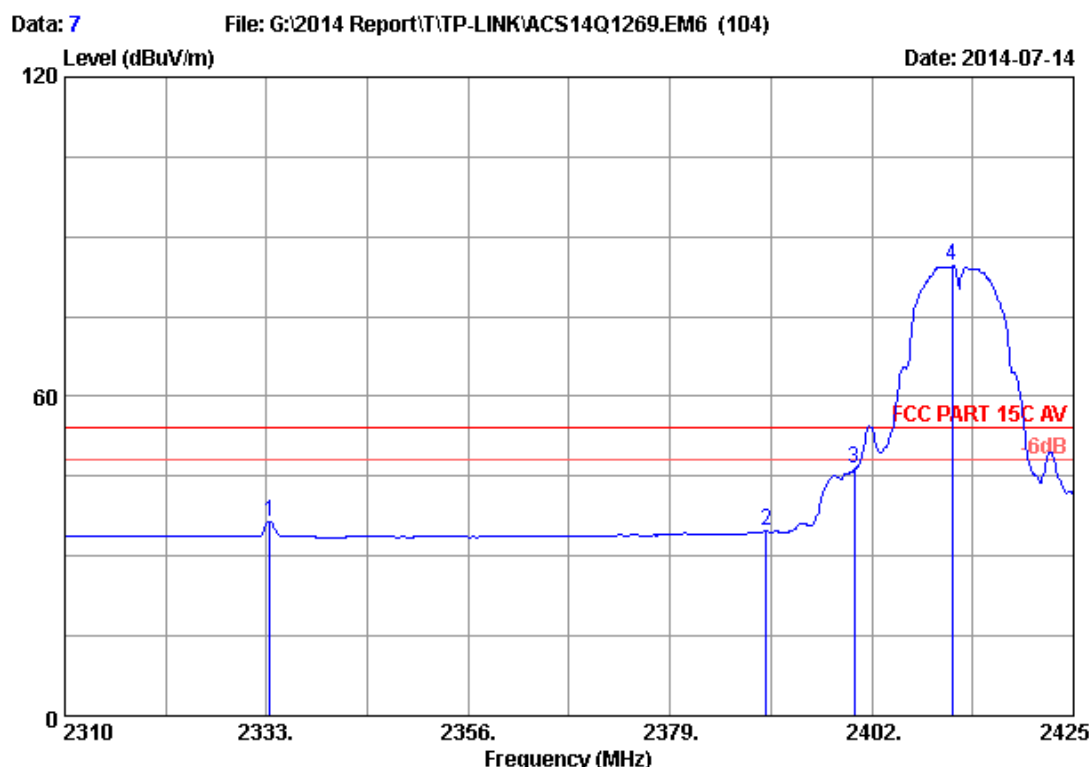
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TD-W8970

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	49.08	47.32	54.00	6.68	Average
2	2400.000	28.18	5.80	35.70	67.85	66.13	54.00	-12.13	Average
3	2411.200	28.20	5.81	35.70	107.42	105.73	54.00	-51.73	Average

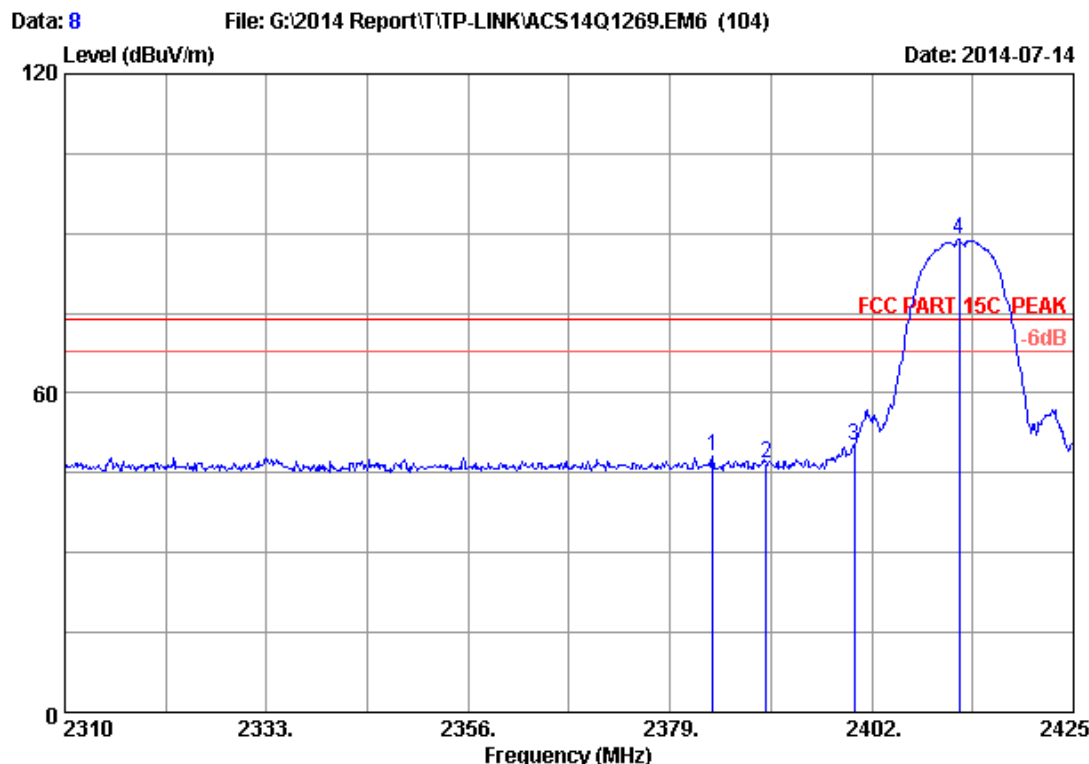
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TD-W8970

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	2333.345	28.03	5.70	35.70	38.53	36.56	54.00	17.44	Average
2	2390.000	28.16	5.78	35.70	36.41	34.65	54.00	19.35	Average
3	2400.000	28.18	5.80	35.70	48.12	46.40	54.00	7.60	Average
4	2411.200	28.20	5.81	35.70	86.15	84.46	54.00	-30.46	Average

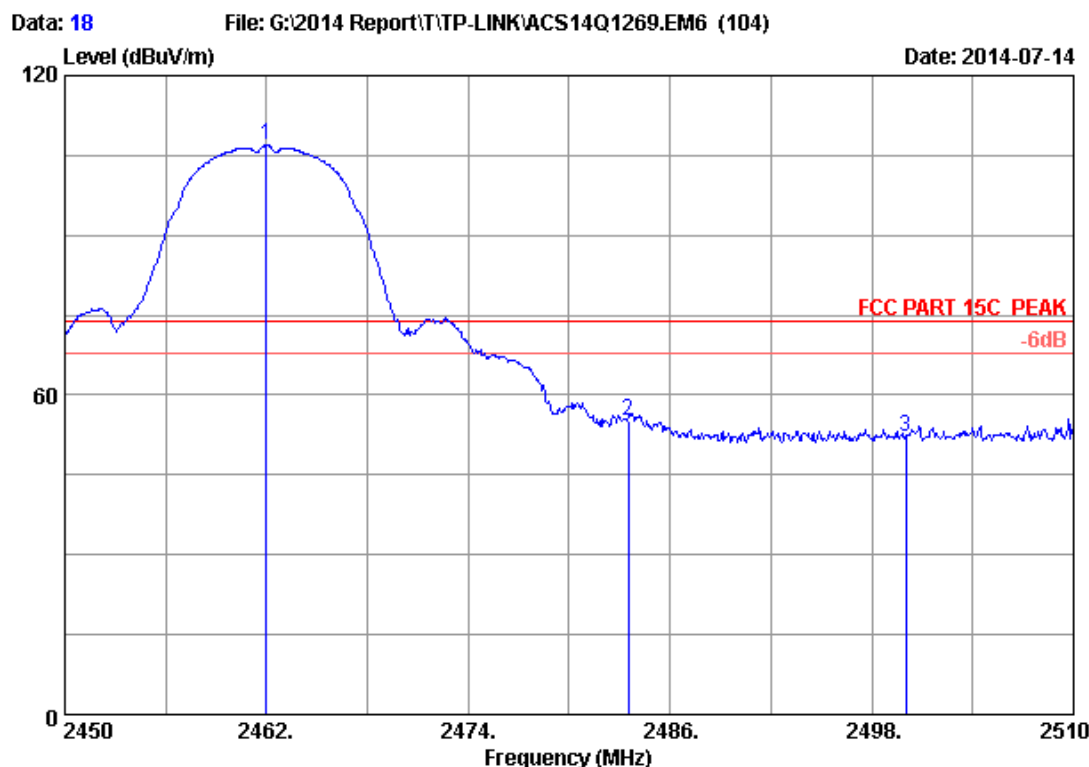
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx Mode
 M/N : TD-W8970

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	2383.830	28.14	5.77	35.70	49.79	48.00	74.00	26.00	Peak
2	2390.000	28.16	5.78	35.70	48.59	46.83	74.00	27.17	Peak
3	2400.000	28.18	5.80	35.70	52.01	50.29	74.00	23.71	Peak
4	2412.005	28.21	5.81	35.70	90.66	88.98	74.00	-14.98	Peak

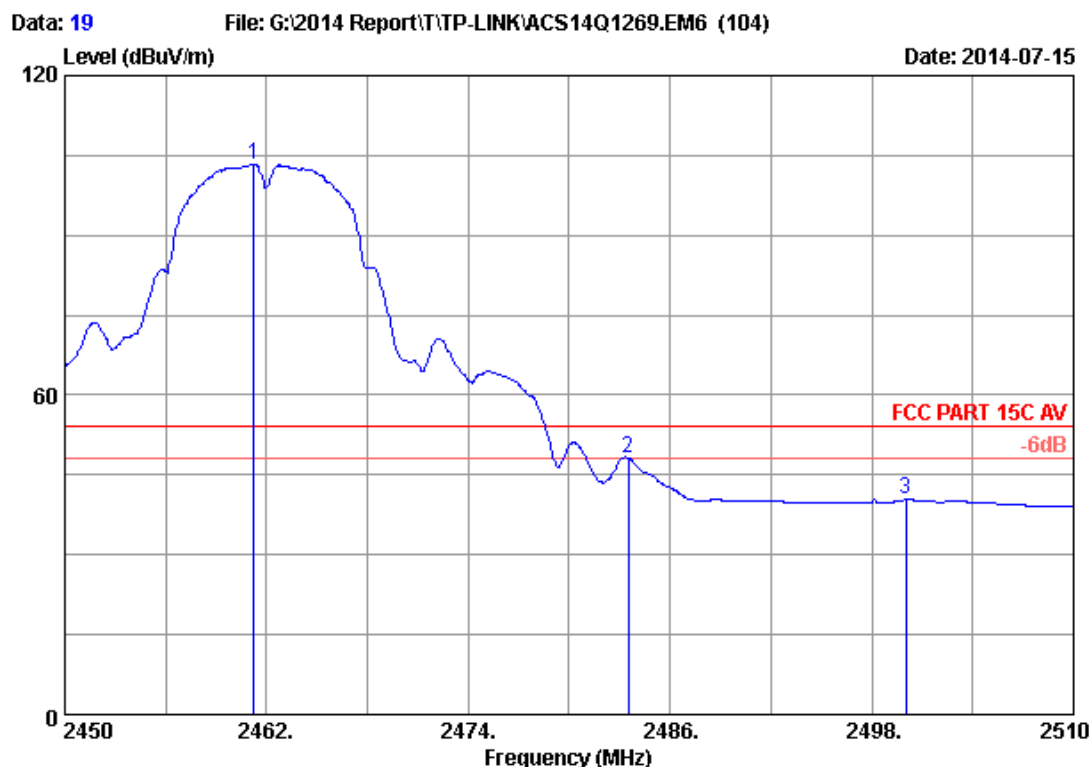
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TD-W8970

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	2462.000	28.32	5.89	35.70	108.36	106.87	74.00	-32.87	Peak
2	2483.500	28.36	5.92	35.70	56.49	55.07	74.00	18.93	Peak
3	2500.000	28.40	5.94	35.70	53.46	52.10	74.00	21.90	Peak

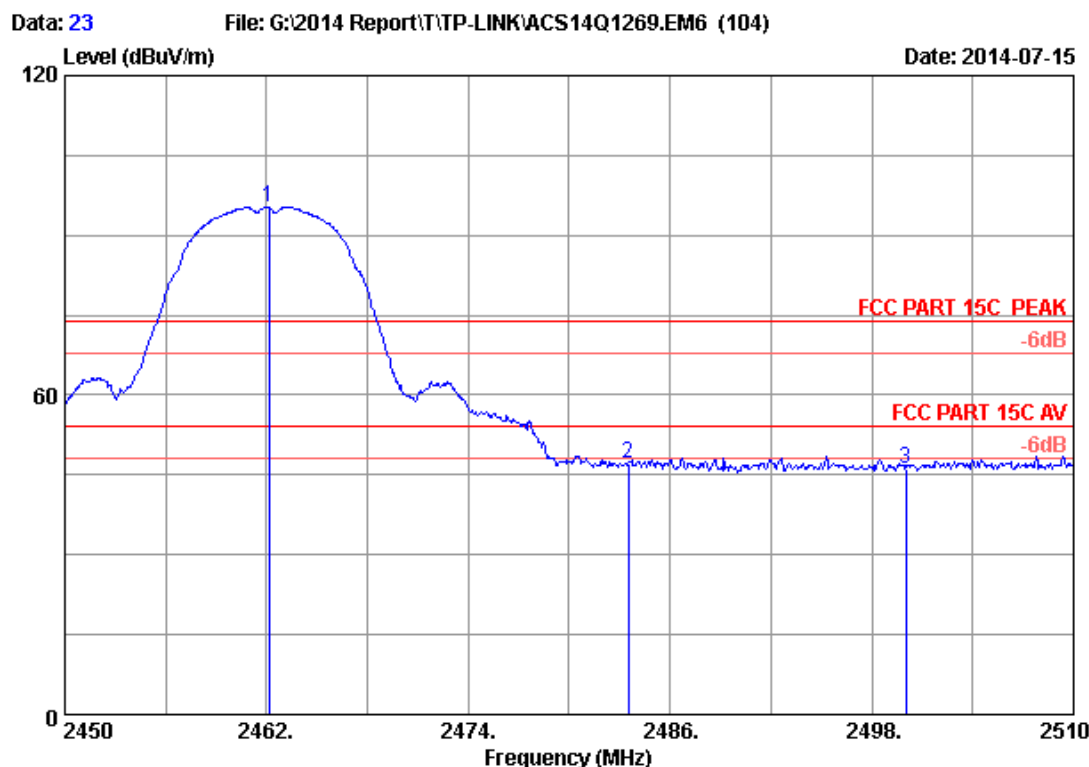
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TD-W8970

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	104.94	103.44	54.00	-49.44	Average
2	2483.500	28.36	5.92	35.70	49.62	48.20	54.00	5.80	Average
3	2500.000	28.40	5.94	35.70	41.67	40.31	54.00	13.69	Average

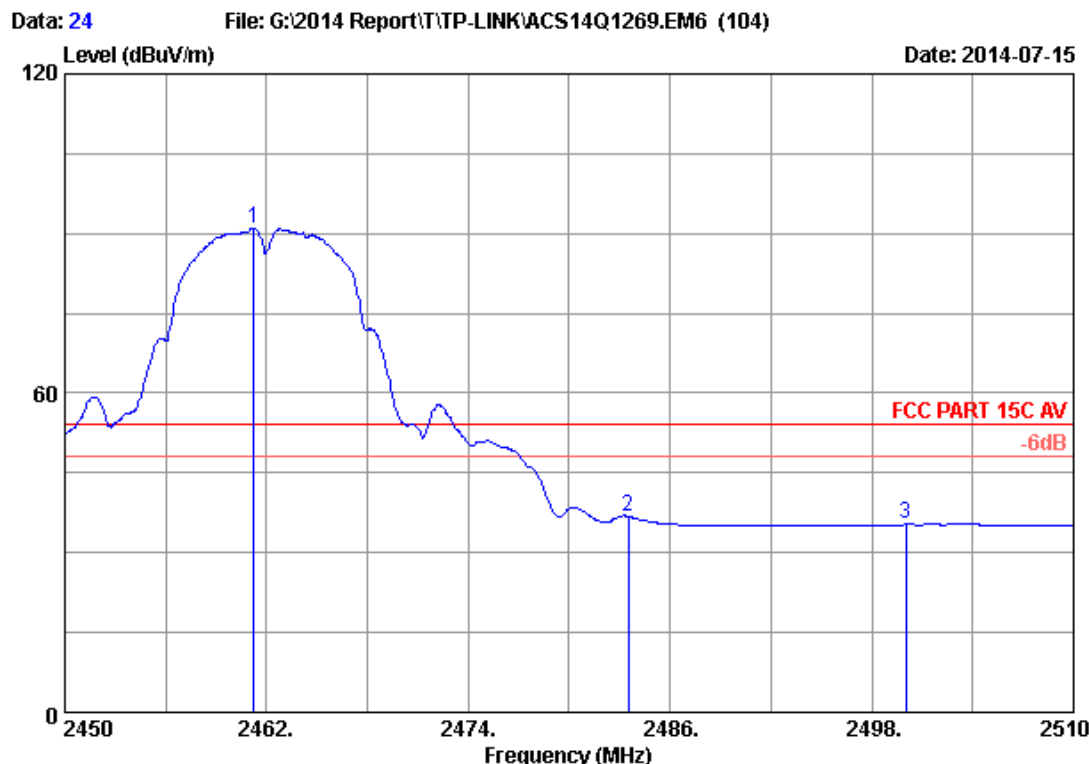
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TD-W8970

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	2462.120	28.32	5.89	35.70	96.91	95.42	74.00	-21.42	Peak
2	2483.500	28.36	5.92	35.70	48.54	47.12	74.00	26.88	Peak
3	2500.000	28.40	5.94	35.70	47.65	46.29	74.00	27.71	Peak

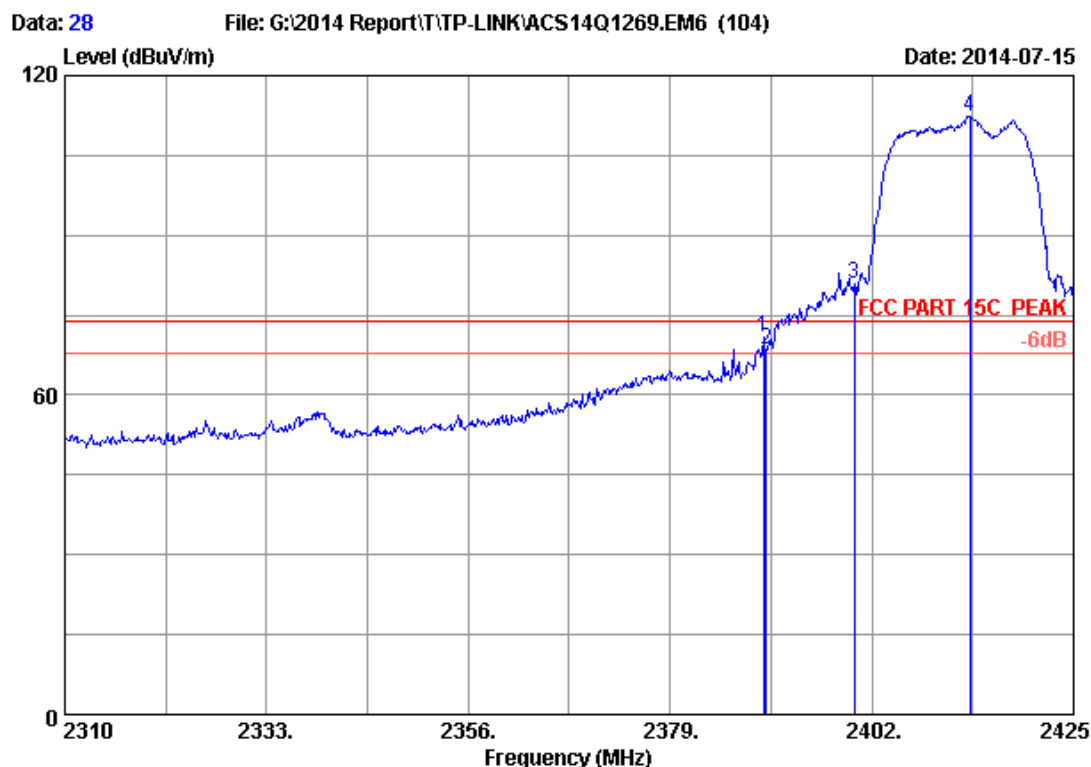
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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 : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx Mode
 M/N : TD-W8970

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	92.41	90.91	54.00	-36.91	Average
2	2483.500	28.36	5.92	35.70	38.29	36.87	54.00	17.13	Average
3	2500.000	28.40	5.94	35.70	36.65	35.29	54.00	18.71	Average

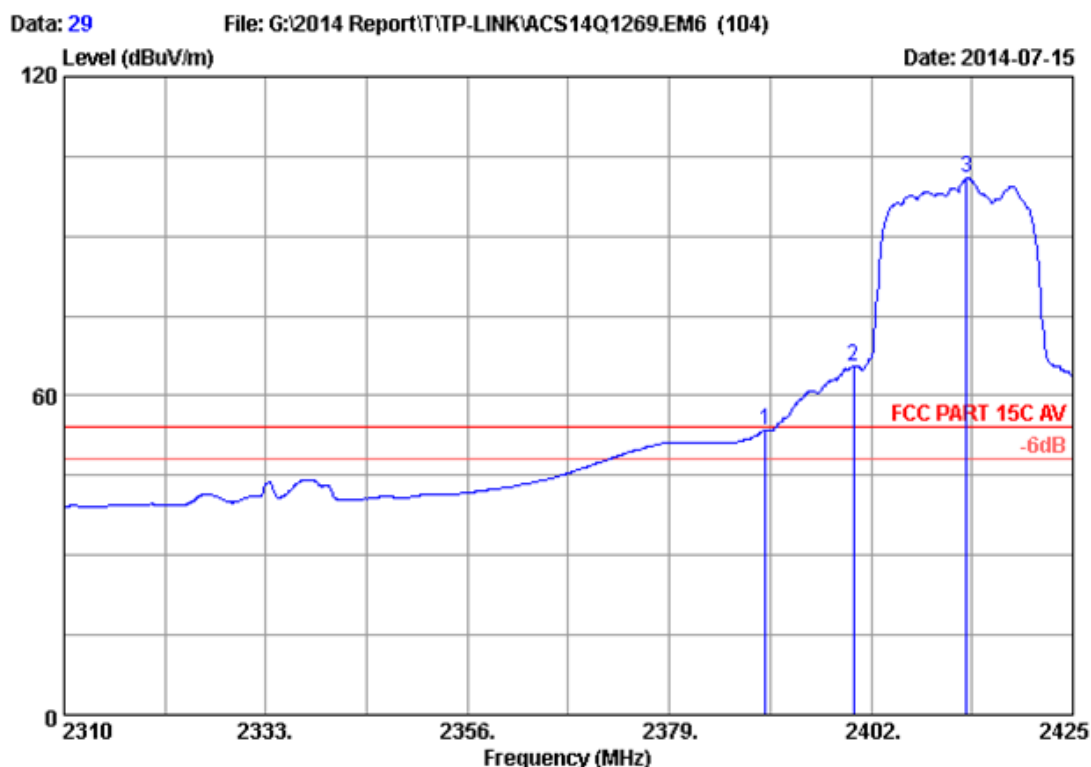
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TD-W8970

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	2389.695	28.16	5.78	35.70	72.77	71.01	74.00	2.99	Peak
2	2390.000	28.16	5.78	35.70	70.13	68.37	74.00	5.63	Peak
3	2400.000	28.18	5.80	35.70	82.57	80.85	74.00	-6.85	Peak
4	2413.155	28.21	5.82	35.70	113.91	112.24	74.00	-38.24	Peak

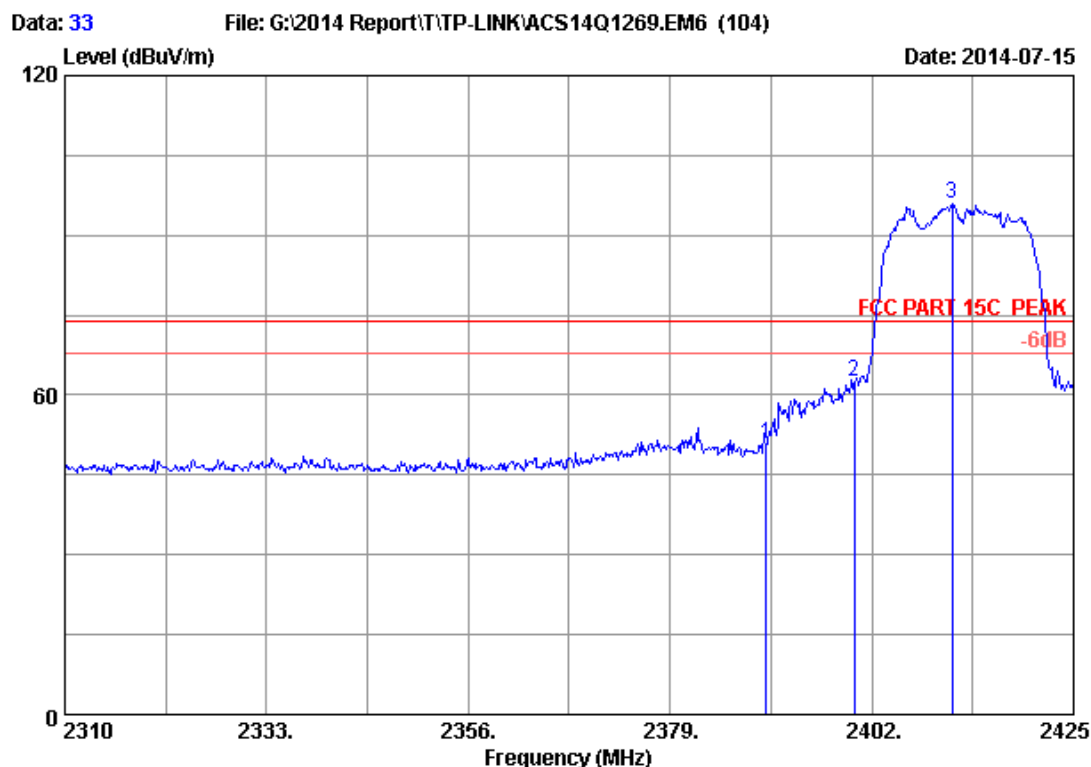
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TD-W8970

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	55.28	53.52	54.00	0.48	Average
2	2400.000	28.18	5.80	35.70	67.30	65.58	54.00	-11.58	Average
3	2412.925	28.21	5.82	35.70	102.48	100.81	54.00	-46.81	Average

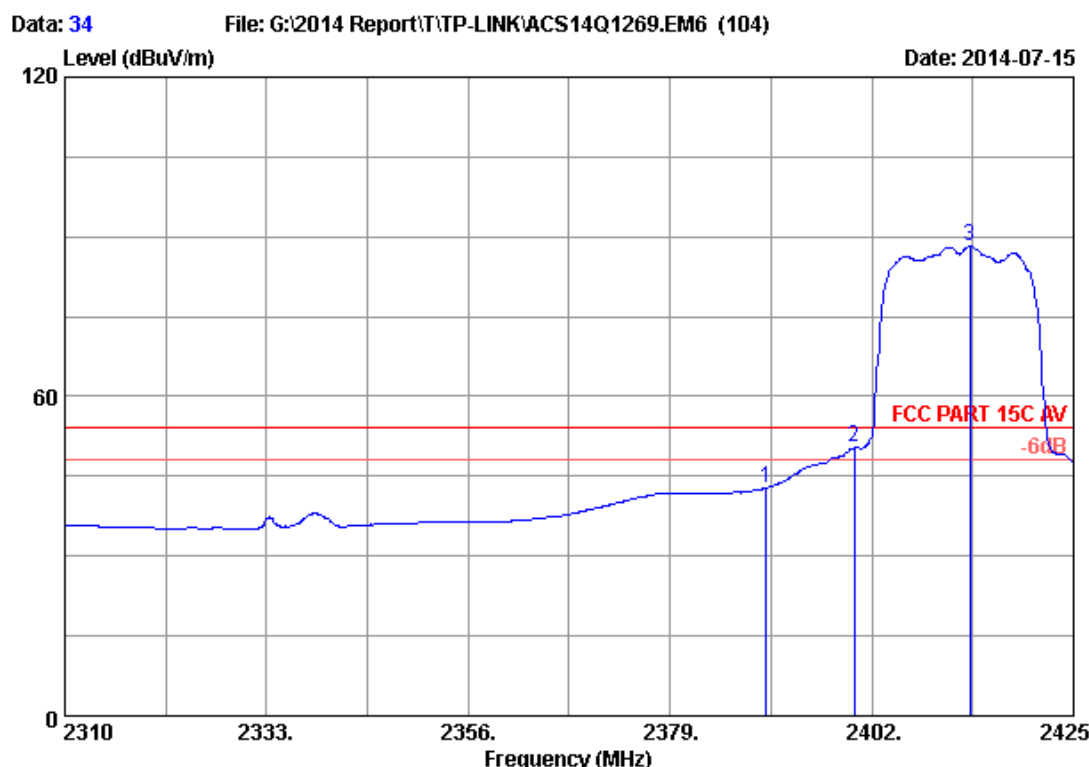
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TD-W8970

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	52.66	50.90	74.00	23.10	Peak
2	2400.000	28.18	5.80	35.70	64.17	62.45	74.00	11.55	Peak
3	2411.200	28.20	5.81	35.70	97.47	95.78	74.00	-21.78	Peak

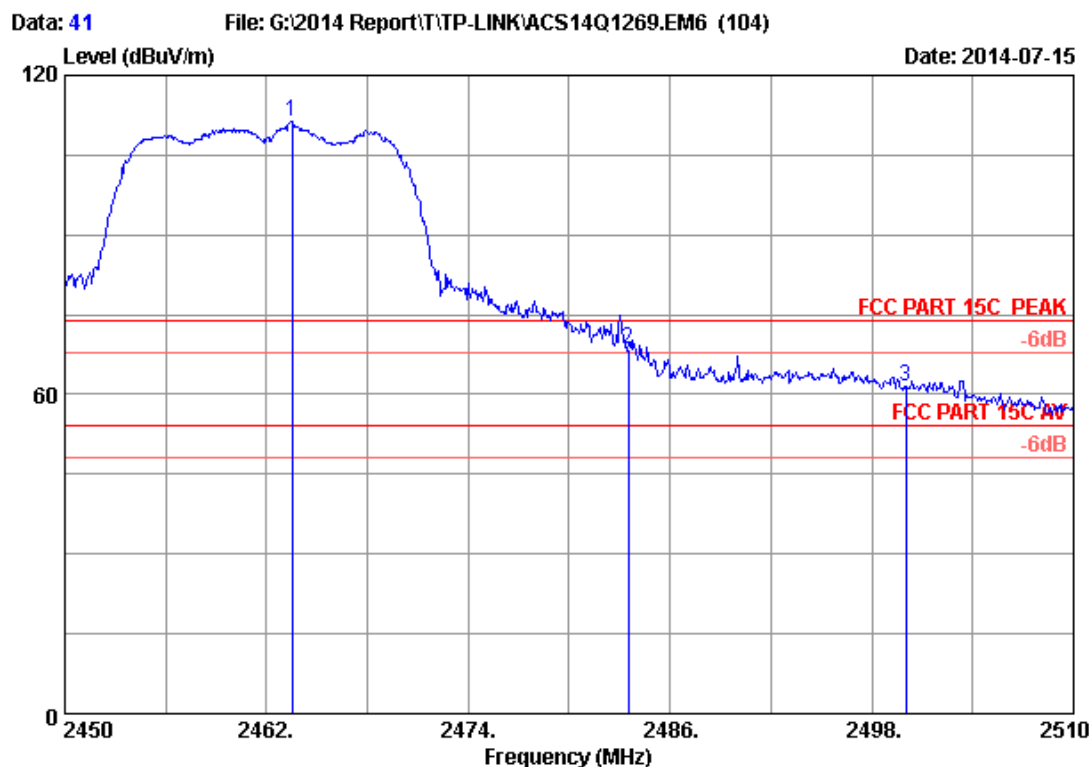
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx Mode
 M/N : TD-W8970

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	44.64	42.88	54.00	11.12	Average
2	2400.000	28.18	5.80	35.70	52.07	50.35	54.00	3.65	Average
3	2413.155	28.21	5.82	35.70	89.80	88.13	54.00	-34.13	Average

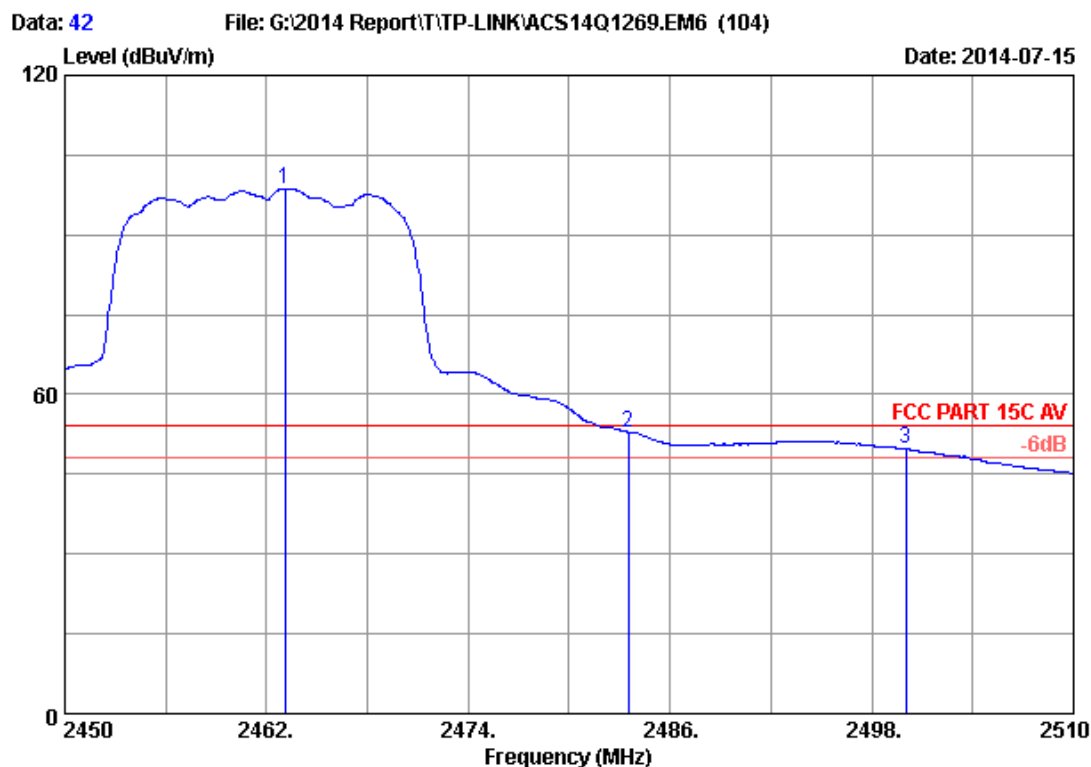
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 41
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TD-W8970

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	2463.500	28.32	5.89	35.70	112.92	111.43	74.00	-37.43	Peak
2	2483.500	28.36	5.92	35.70	70.08	68.66	74.00	5.34	Peak
3	2500.000	28.40	5.94	35.70	62.90	61.54	74.00	12.46	Peak

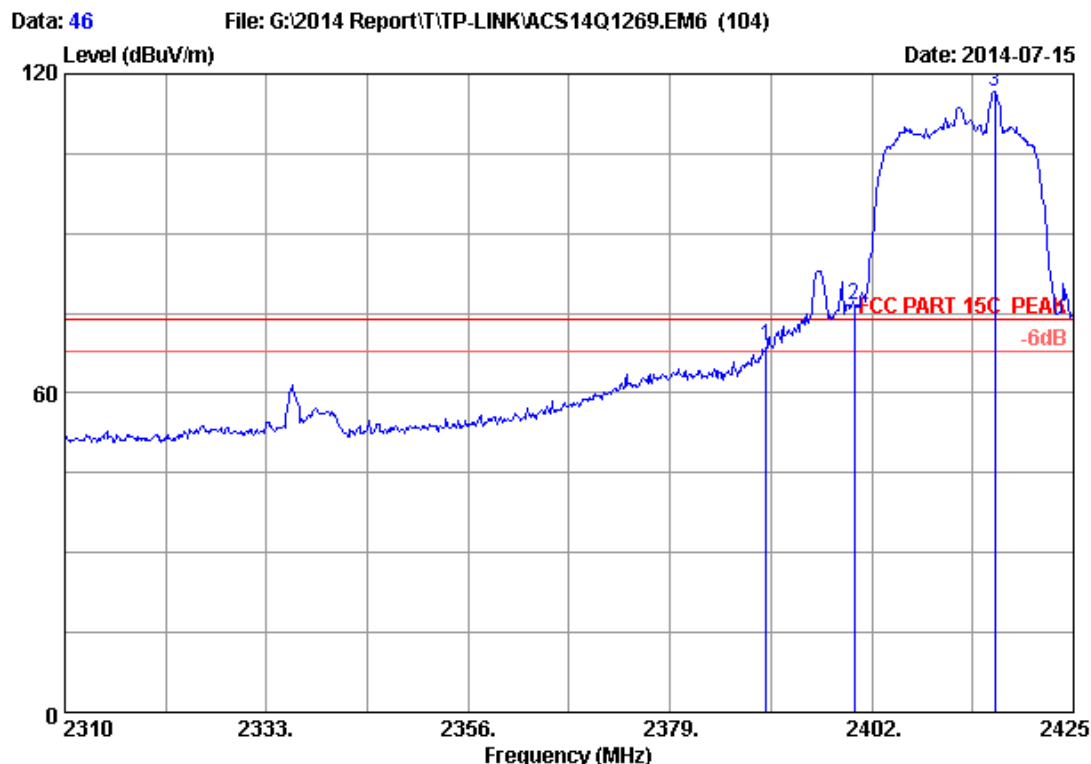
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 42
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TD-W8970

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	2463.080	28.32	5.89	35.70	100.25	98.76	54.00	-44.76	Average
2	2483.500	28.36	5.92	35.70	54.39	52.97	54.00	1.03	Average
3	2500.000	28.40	5.94	35.70	51.25	49.89	54.00	4.11	Average

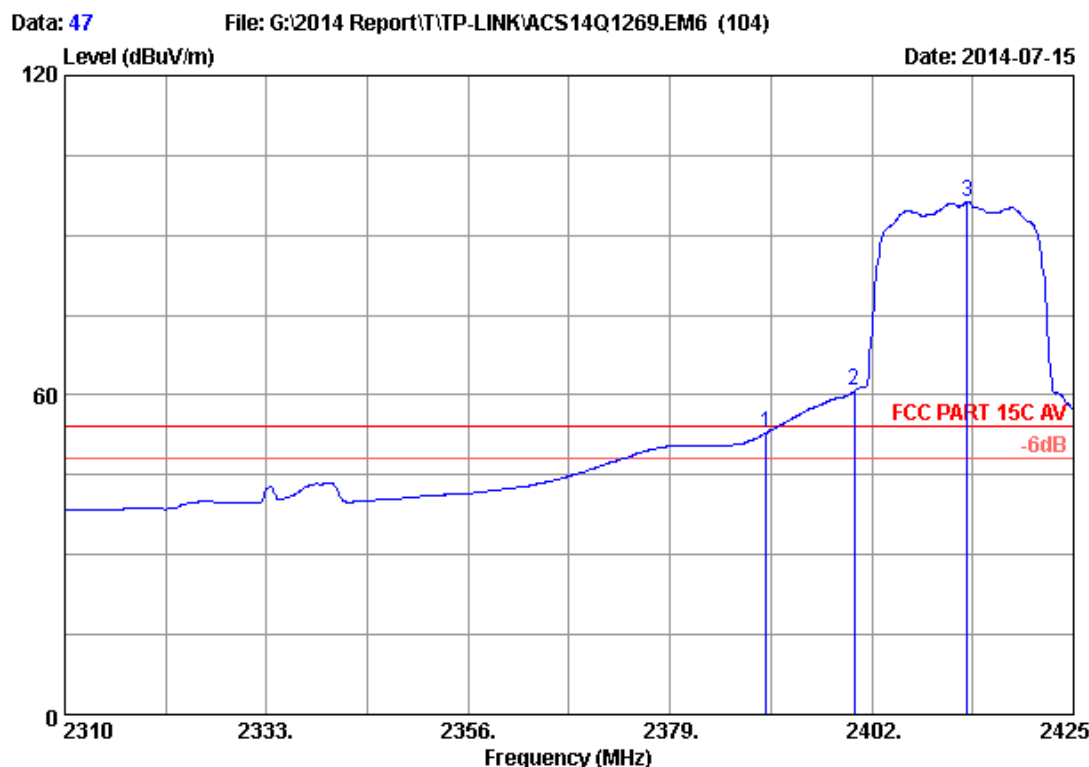
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TD-W8970

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	70.77	69.01	74.00	4.99	Peak
2	2400.000	28.18	5.80	35.70	78.36	76.64	74.00	-2.64	Peak
3	2416.030	28.22	5.82	35.70	118.24	116.58	74.00	-42.58	Peak

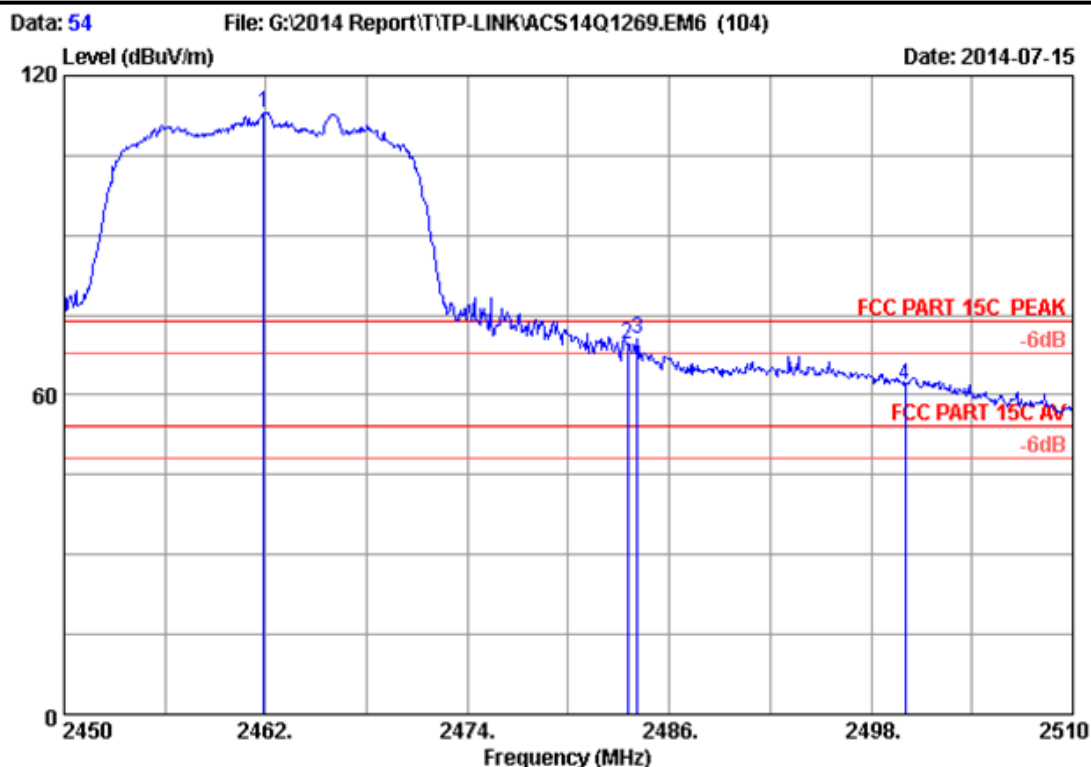
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TD-W8970

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	54.68	52.92	54.00	1.08	Average
2	2400.000	28.18	5.80	35.70	62.64	60.92	54.00	-6.92	Average
3	2412.925	28.21	5.82	35.70	97.88	96.21	54.00	-42.21	Average

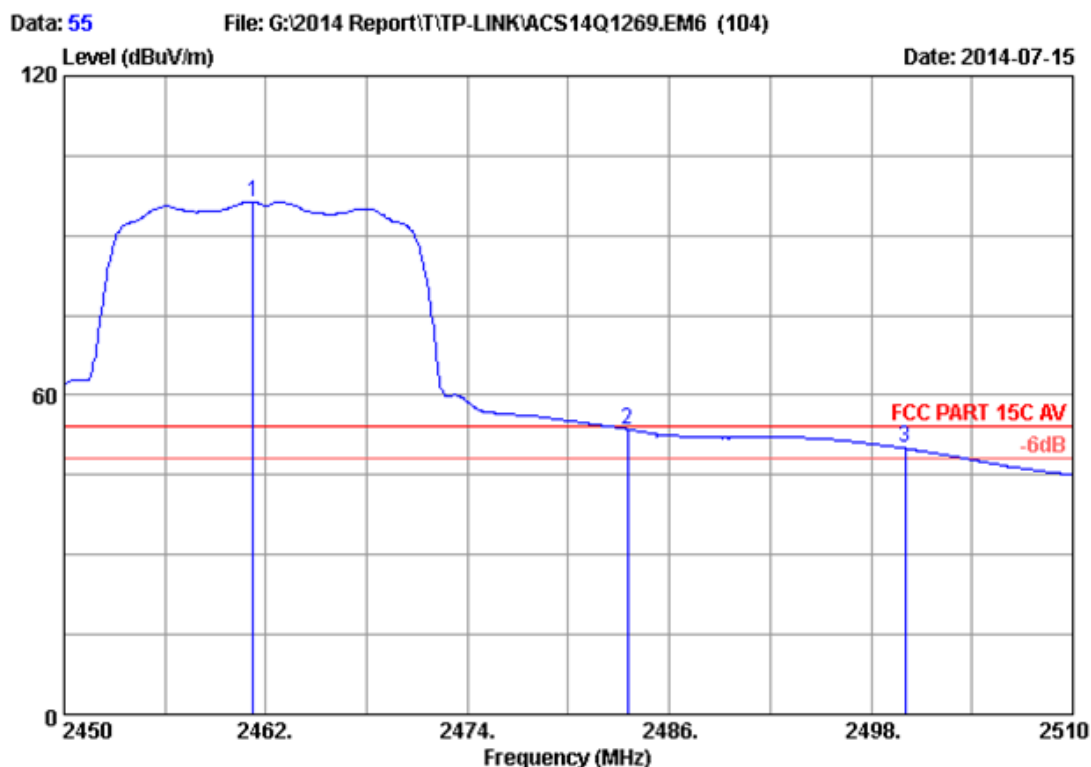
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TD-W8970

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	2461.880	28.32	5.89	35.70	114.42	112.93	74.00	-38.93	Peak
2	2483.500	28.36	5.92	35.70	70.93	69.51	74.00	4.49	Peak
3	2484.080	28.36	5.92	35.70	71.82	70.40	74.00	3.60	Peak
4	2500.000	28.40	5.94	35.70	63.11	61.75	74.00	12.25	Peak

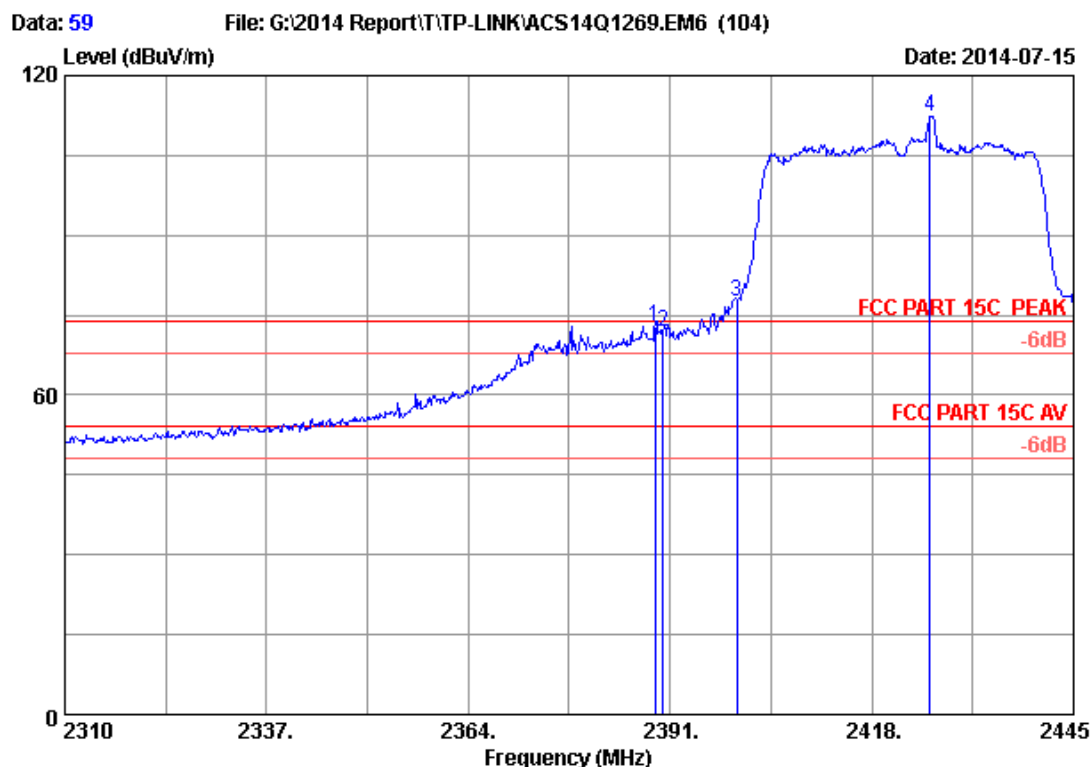
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TD-W8970

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	97.93	96.43	54.00	-42.43	Average
2	2483.500	28.36	5.92	35.70	55.03	53.61	54.00	0.39	Average
3	2500.000	28.40	5.94	35.70	51.37	50.01	54.00	3.99	Average

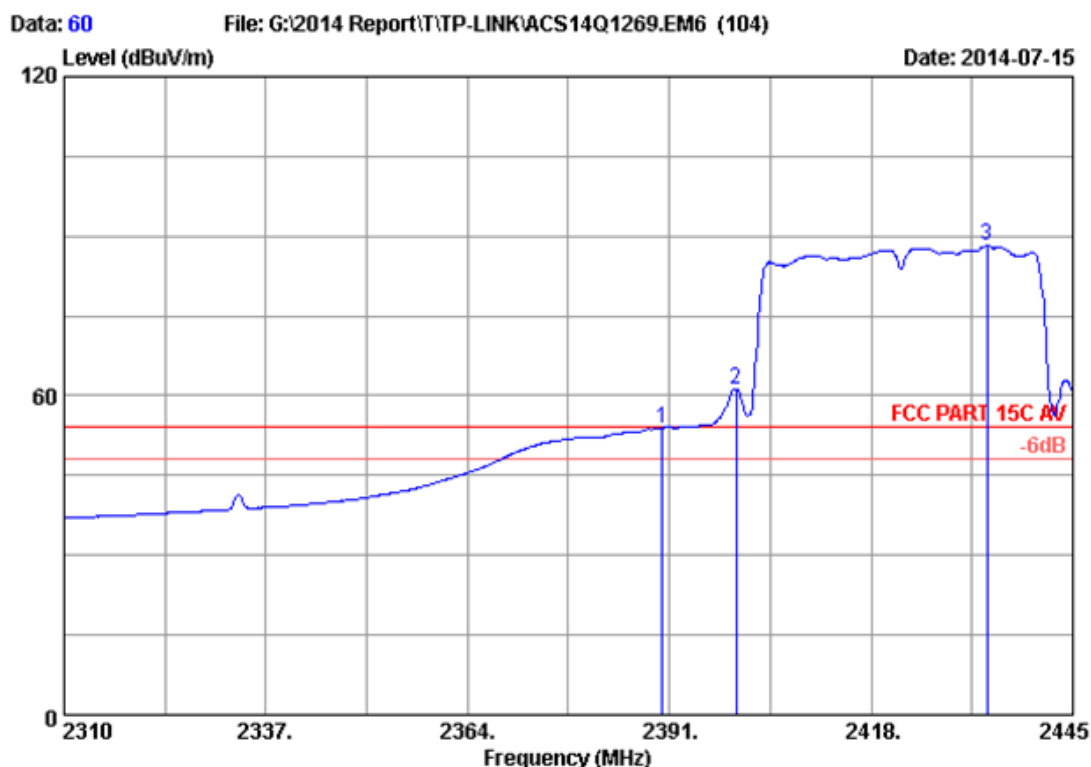
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TD-W8970

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	2388.975	28.16	5.78	35.70	74.72	72.96	74.00	1.04	Peak
2	2390.000	28.16	5.78	35.70	73.74	71.98	74.00	2.02	Peak
3	2400.000	28.18	5.80	35.70	79.31	77.59	74.00	-3.59	Peak
4	2425.830	28.24	5.83	35.70	113.95	112.32	74.00	-38.32	Peak

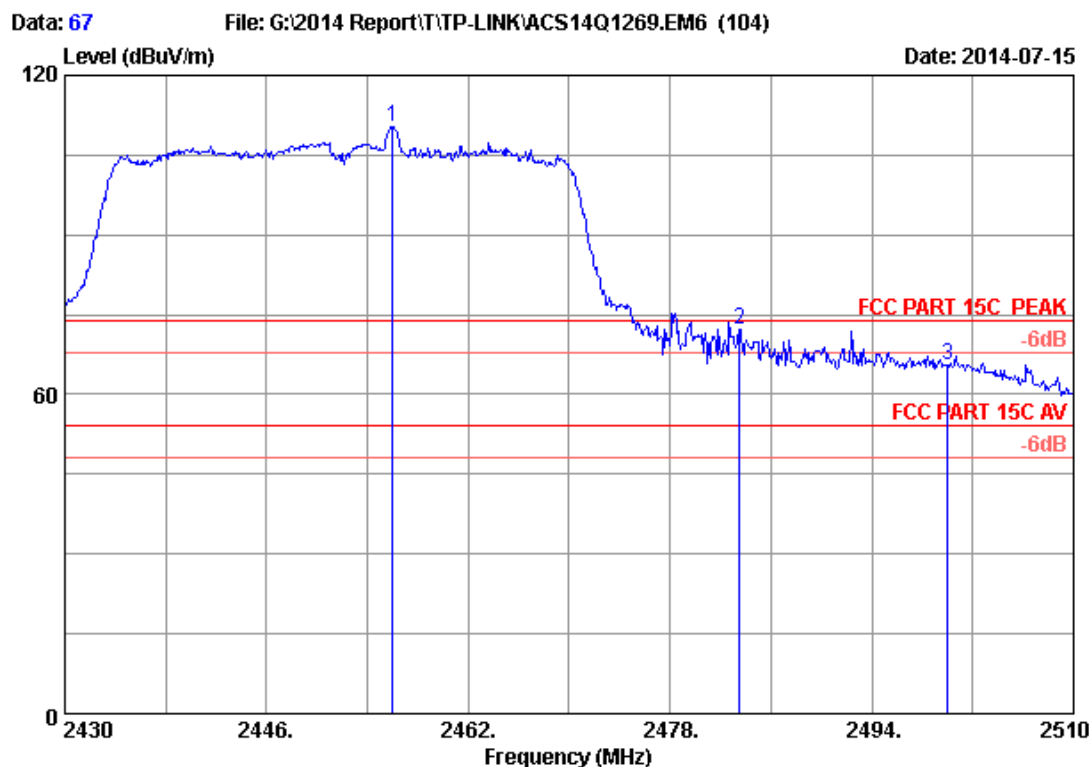
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TD-W8970

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	55.66	53.90	54.00	0.10	Average
2	2400.000	28.18	5.80	35.70	63.01	61.29	54.00	-7.29	Average
3	2433.525	28.25	5.85	35.70	89.75	88.15	54.00	-34.15	Average

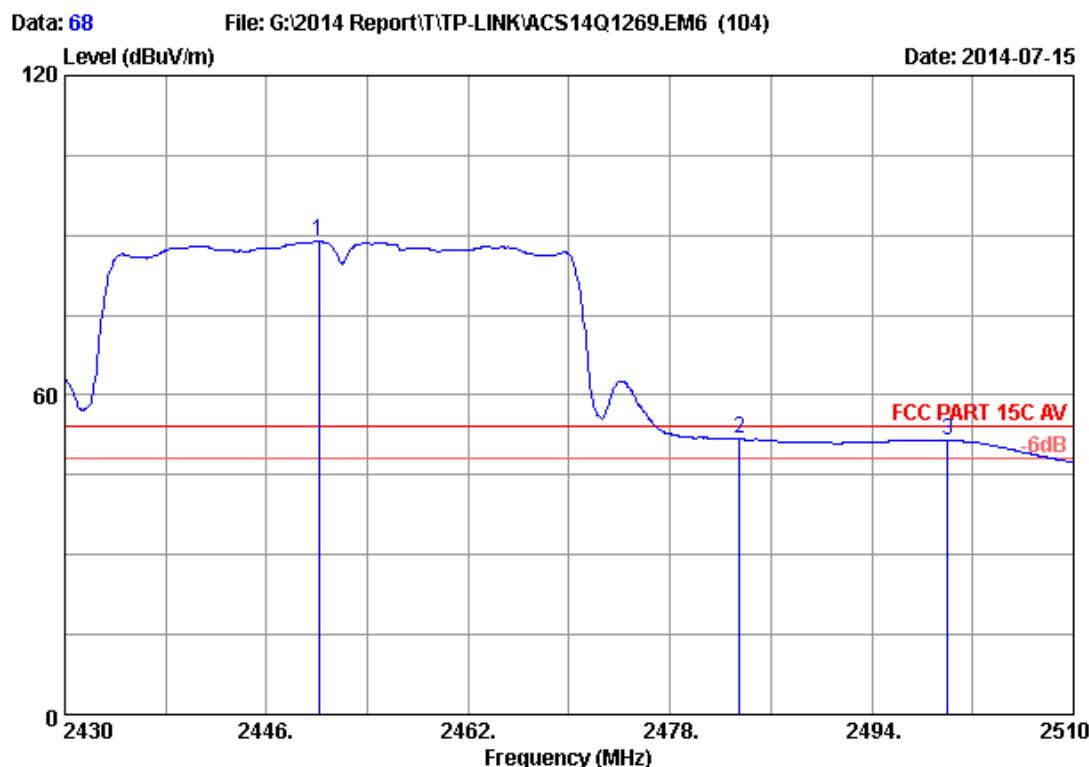
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TD-W8970

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	2456.000	28.30	5.88	35.70	111.74	110.22	74.00	-36.22	Peak
2	2483.500	28.36	5.92	35.70	73.60	72.18	74.00	1.82	Peak
3	2500.000	28.40	5.94	35.70	66.78	65.42	74.00	8.58	Peak

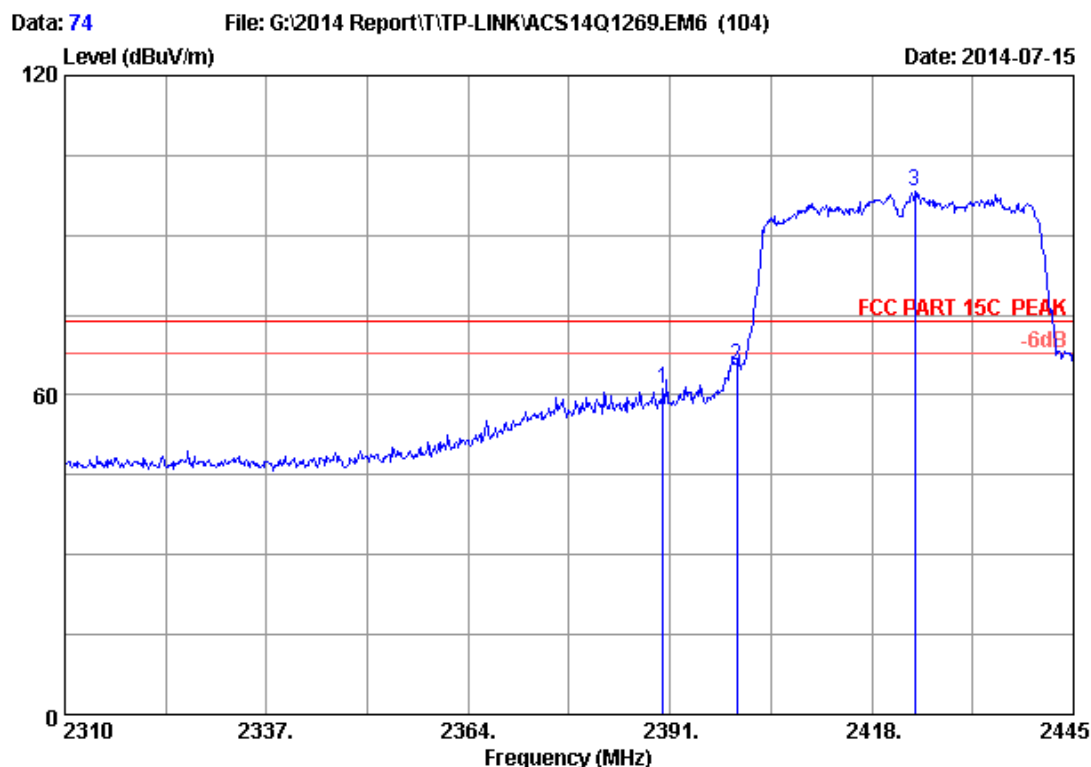
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 68
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
Power Rating : DC 12V From Adapter input AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
M/N : TD-W8970

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	2450.160	28.29	5.87	35.70	90.39	88.85	54.00	-34.85	Average
2	2483.500	28.36	5.92	35.70	53.21	51.79	54.00	2.21	Average
3	2500.000	28.40	5.94	35.70	52.87	51.51	54.00	2.49	Average

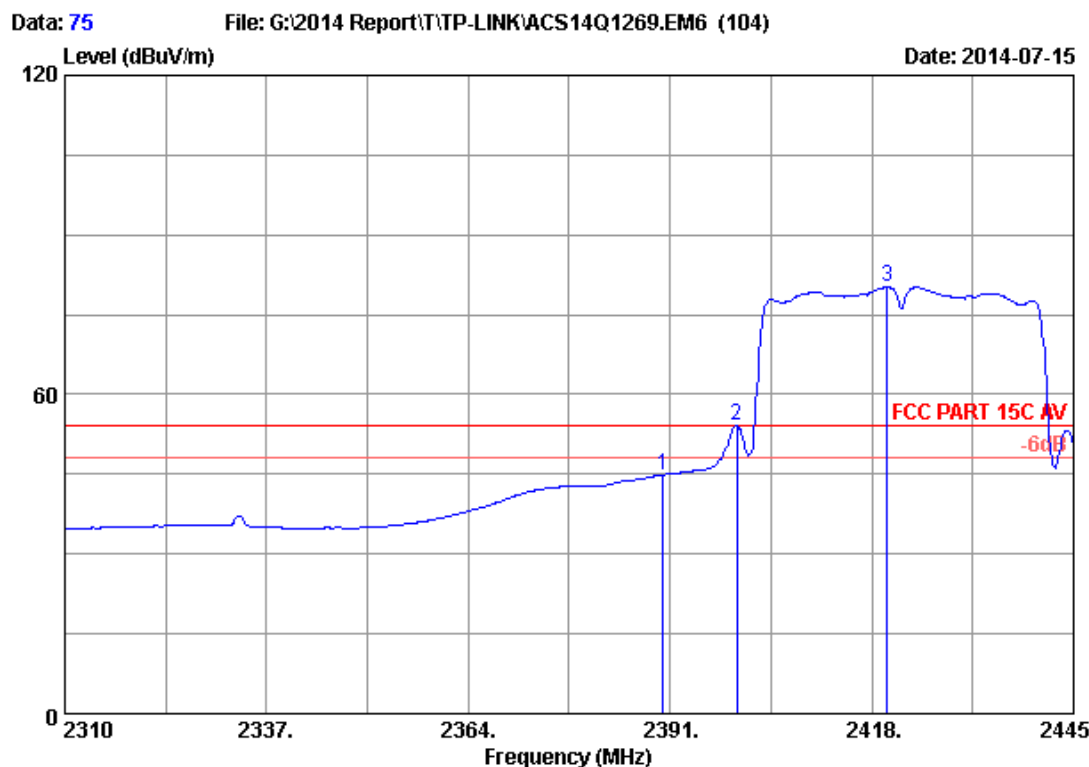
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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 : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TD-W8970

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	62.88	61.12	74.00	12.88	Peak
2	2400.000	28.18	5.80	35.70	67.35	65.63	74.00	8.37	Peak
3	2423.805	28.23	5.83	35.70	100.03	98.39	74.00	-24.39	Peak

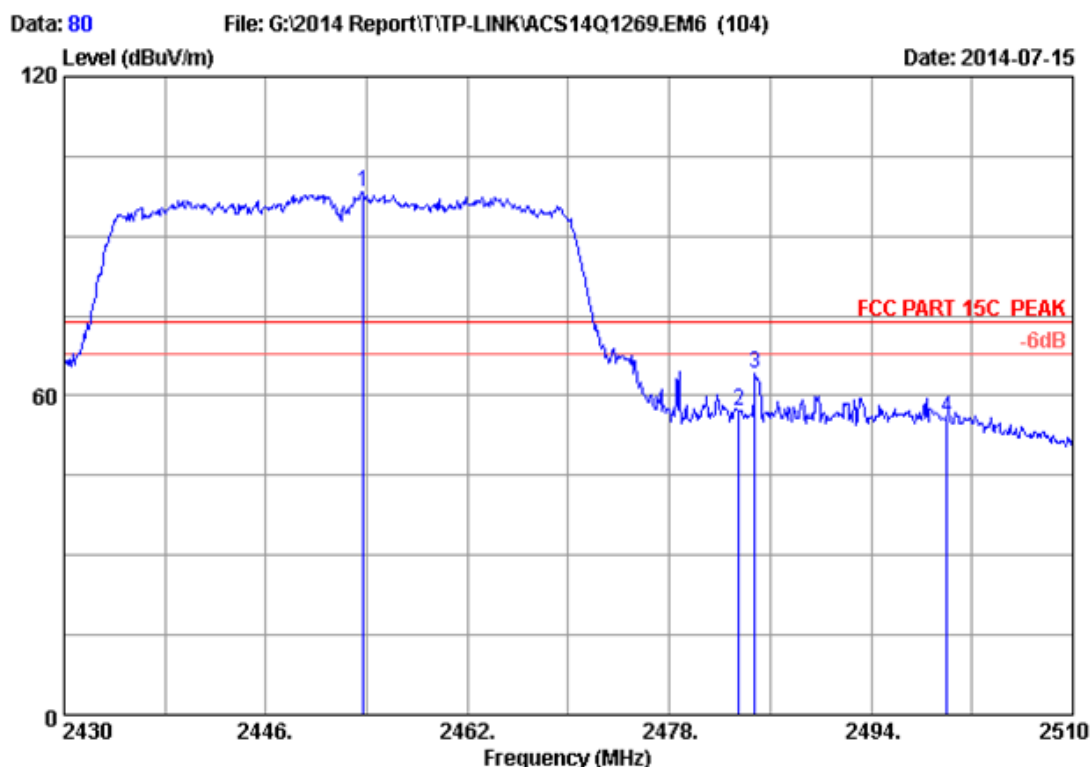
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx Mode
 M/N : TD-W8970

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	46.66	44.90	54.00	9.10	Average
2	2400.000	28.18	5.80	35.70	55.74	54.02	54.00	-0.02	Average
3	2420.025	28.22	5.83	35.70	81.83	80.18	54.00	-26.18	Average

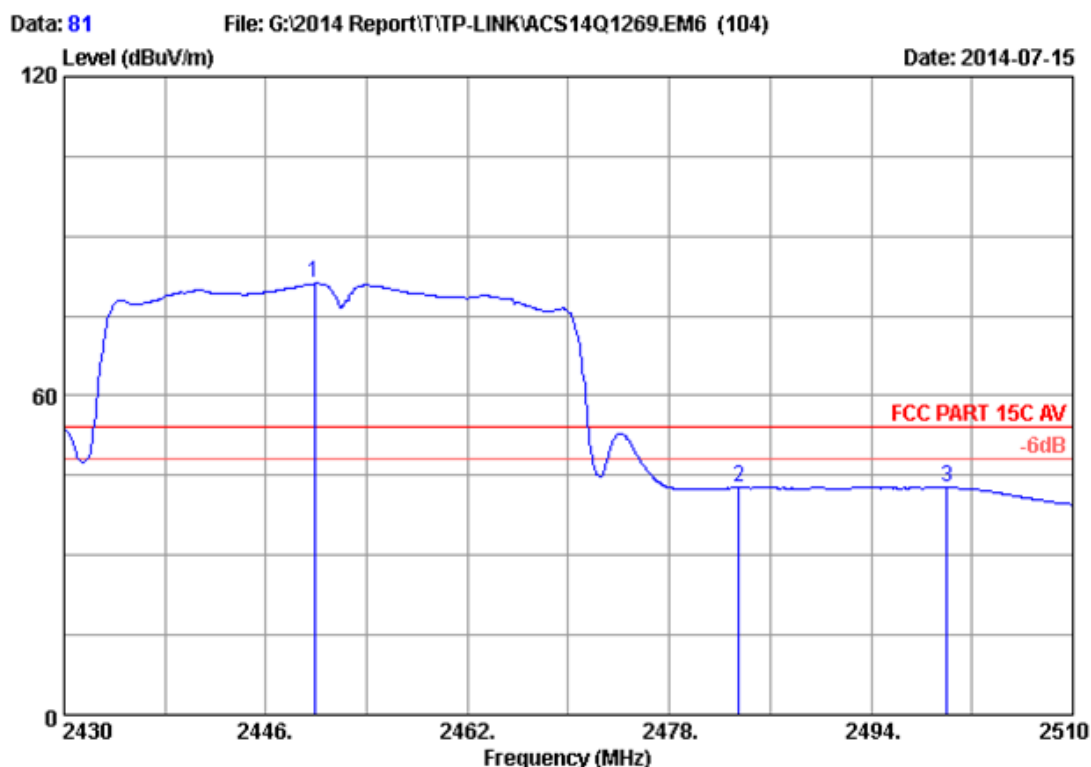
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TD-W8970

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	2453.760	28.30	5.88	35.70	99.88	98.36	74.00	-24.36	Peak
2	2483.500	28.36	5.92	35.70	58.55	57.13	74.00	16.87	Peak
3	2484.800	28.37	5.92	35.70	65.68	64.27	74.00	9.73	Peak
4	2500.000	28.40	5.94	35.70	57.18	55.82	74.00	18.18	Peak

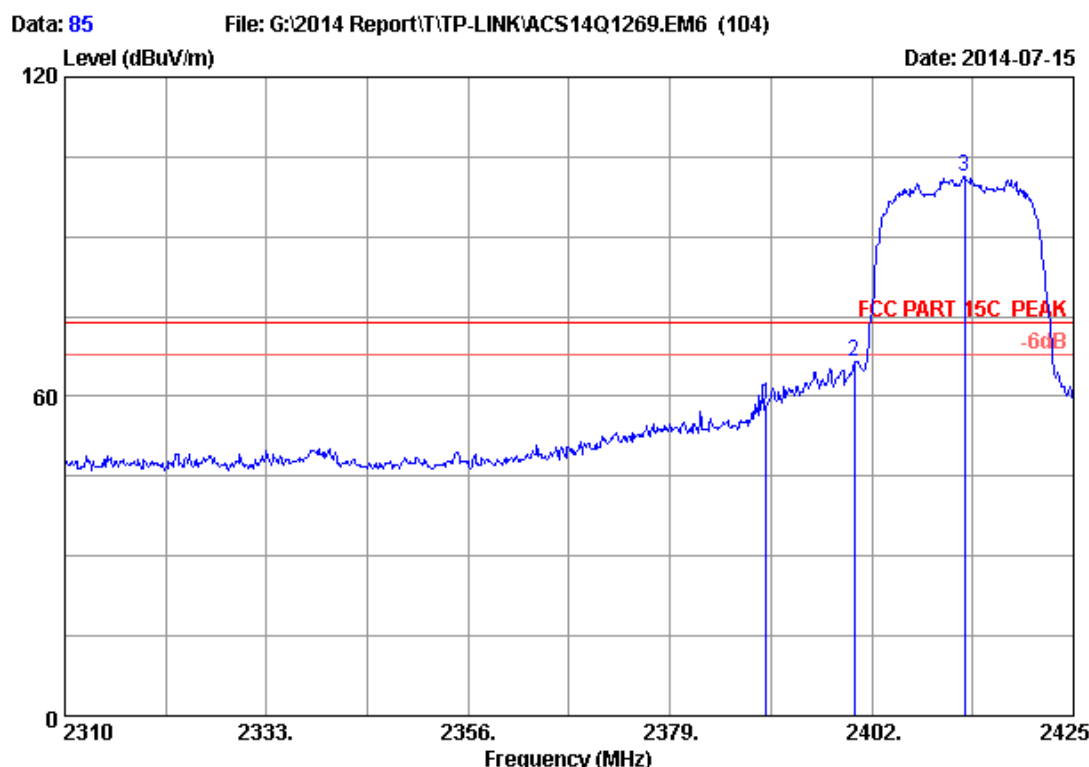
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx Mode
 M/N : TD-W8970

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	2449.840	28.29	5.87	35.70	82.68	81.14	54.00	-27.14	Average
2	2483.500	28.36	5.92	35.70	44.12	42.70	54.00	11.30	Average
3	2500.000	28.40	5.94	35.70	44.12	42.76	54.00	11.24	Average

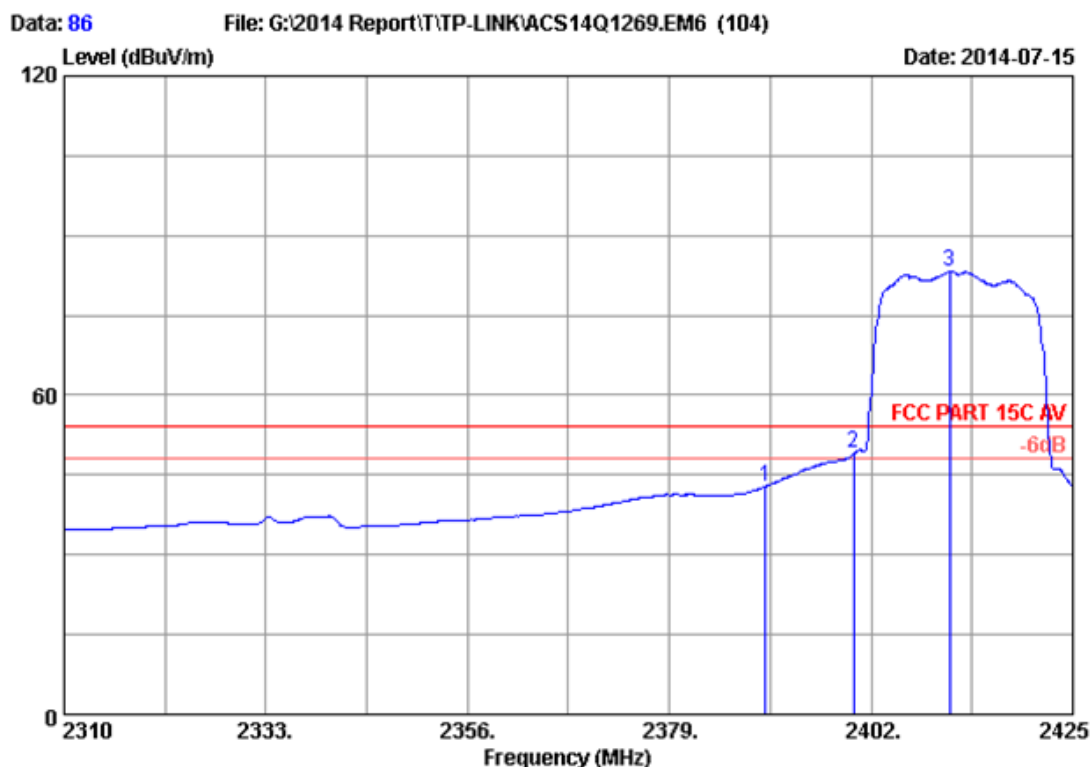
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 85
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TD-W8970

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	60.21	58.45	74.00	15.55	Peak
2	2400.000	28.18	5.80	35.70	68.10	66.38	74.00	7.62	Peak
3	2412.580	28.21	5.82	35.70	103.11	101.44	74.00	-27.44	Peak

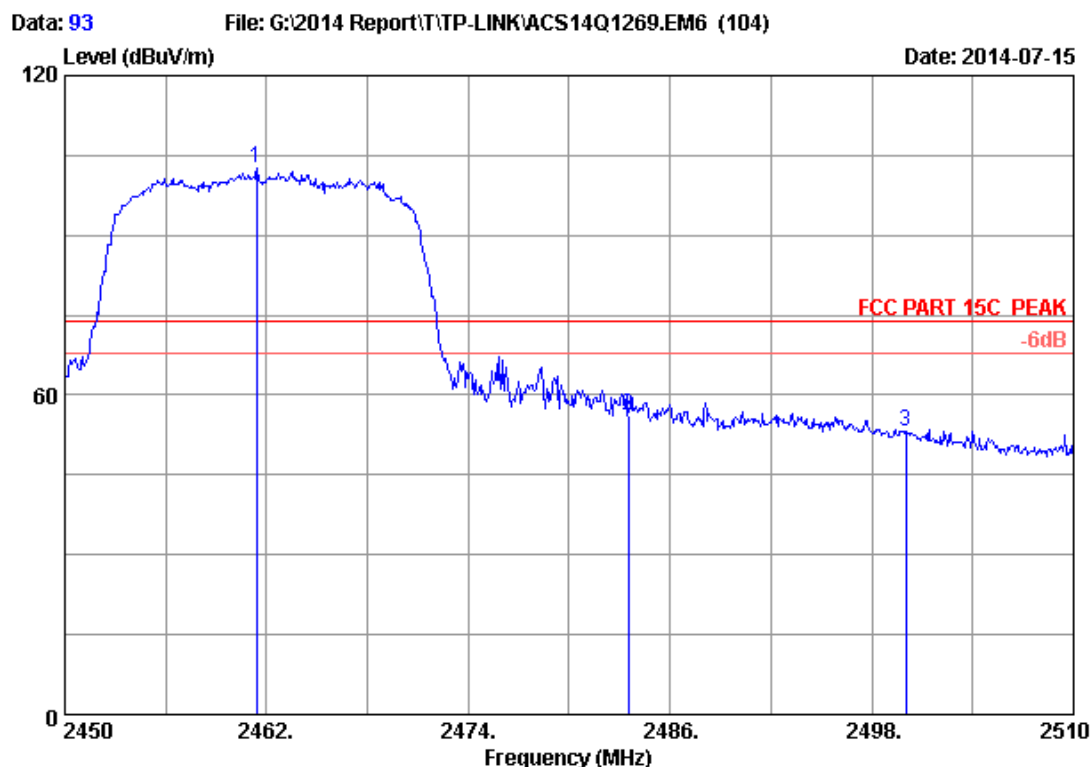
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 86
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx Mode
 M/N : TD-W8970

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	44.64	42.88	54.00	11.12	Average
2	2400.000	28.18	5.80	35.70	50.81	49.09	54.00	4.91	Average
3	2410.970	28.20	5.81	35.70	84.92	83.23	54.00	-29.23	Average

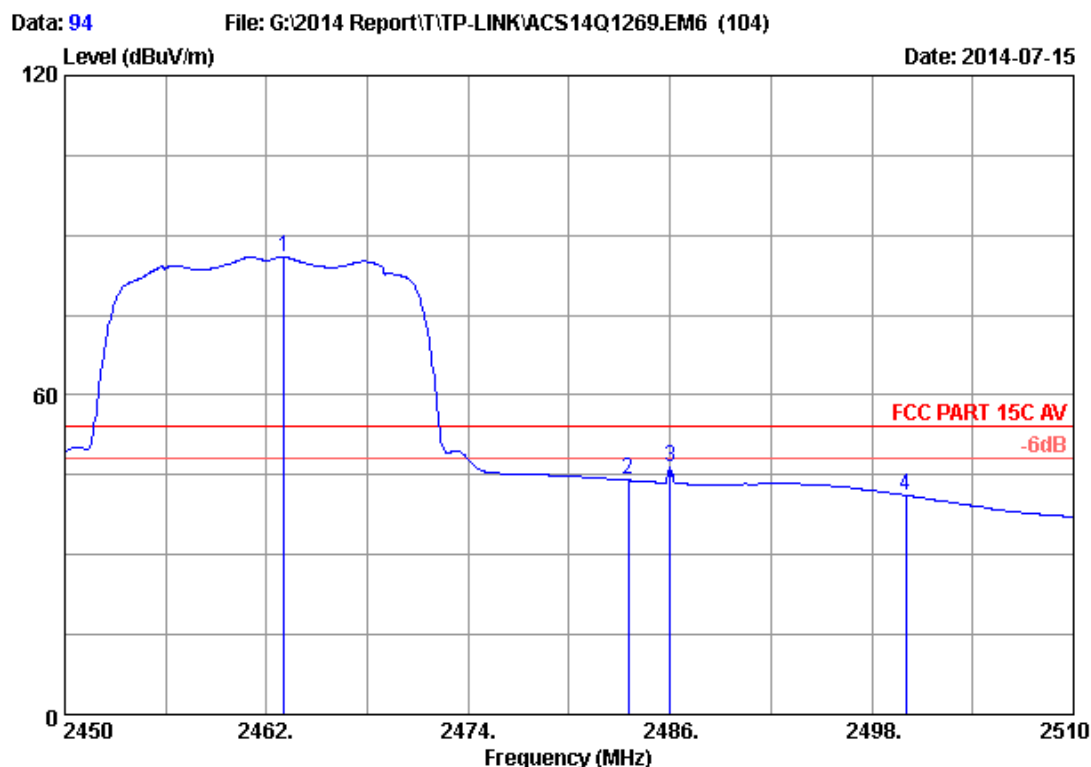
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 93
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TD-W8970

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	2461.400	28.32	5.89	35.70	104.08	102.59	74.00	-28.59	Peak
2	2483.500	28.36	5.92	35.70	57.63	56.21	74.00	17.79	Peak
3	2500.000	28.40	5.94	35.70	54.67	53.31	74.00	20.69	Peak

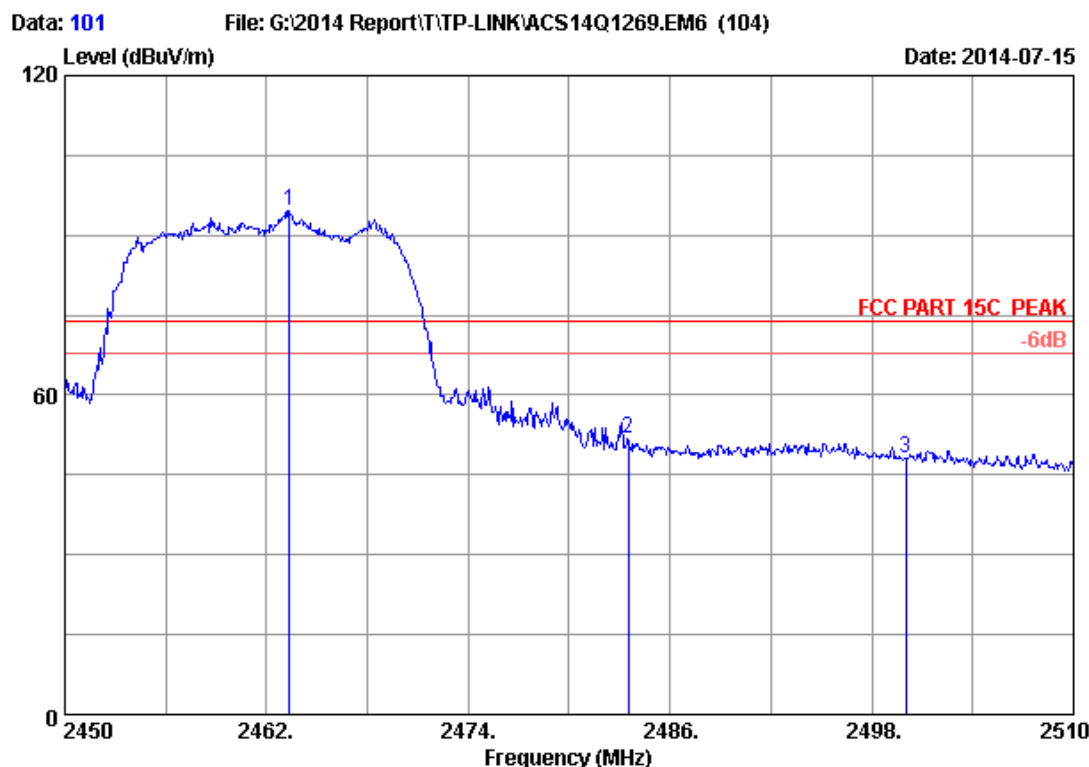
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 94
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx Mode
 M/N : TD-W8970

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	2463.020	28.32	5.89	35.70	87.41	85.92	54.00	-31.92	Average
2	2483.500	28.36	5.92	35.70	45.43	44.01	54.00	9.99	Average
3	2486.000	28.37	5.92	35.70	48.02	46.61	54.00	7.39	Average
4	2500.000	28.40	5.94	35.70	42.53	41.17	54.00	12.83	Average

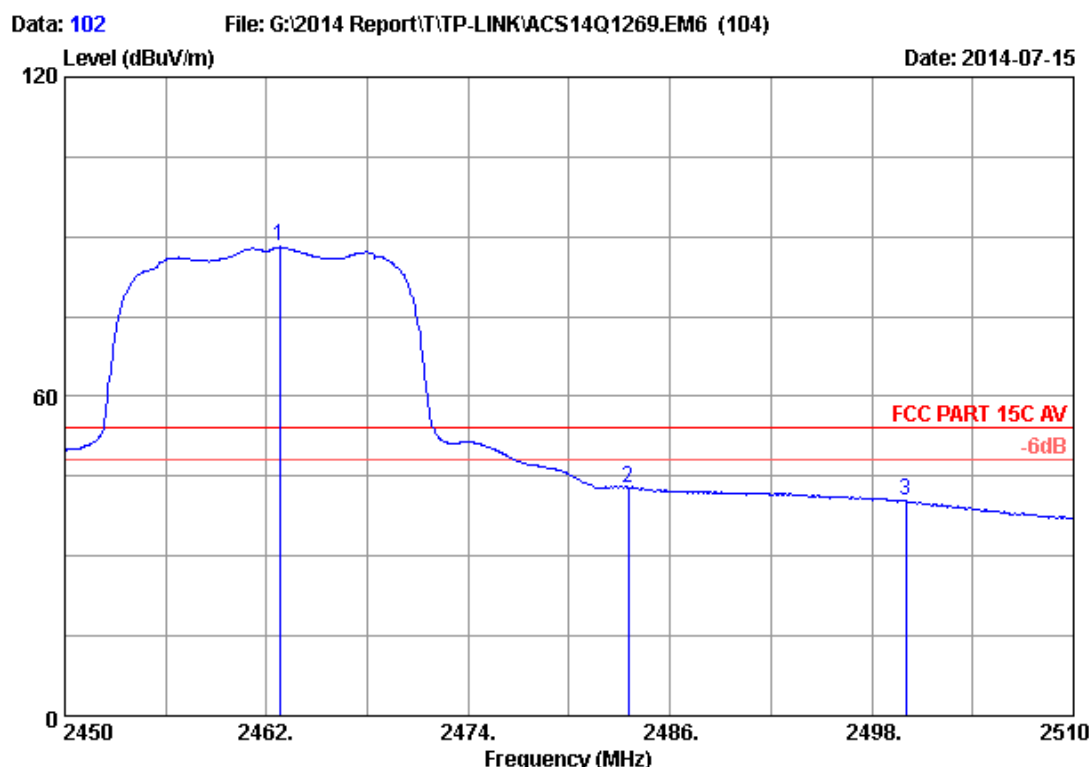
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TD-W8970

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	2463.380	28.32	5.89	35.70	96.11	94.62	74.00	-20.62	Peak
2	2483.500	28.36	5.92	35.70	53.12	51.70	74.00	22.30	Peak
3	2500.000	28.40	5.94	35.70	49.63	48.27	74.00	25.73	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. : 102
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Gigabit ADSL2+ Modem
 Power Rating : DC 12V From Adapter input AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx Mode
 M/N : TD-W8970

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	2462.780	28.32	5.89	35.70	89.58	88.09	54.00	-34.09	Average
2	2483.500	28.36	5.92	35.70	44.23	42.81	54.00	11.19	Average
3	2500.000	28.40	5.94	35.70	41.79	40.43	54.00	13.57	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
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX 102	28620/2	Apr. 28,14	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 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.

7.4. Test Results

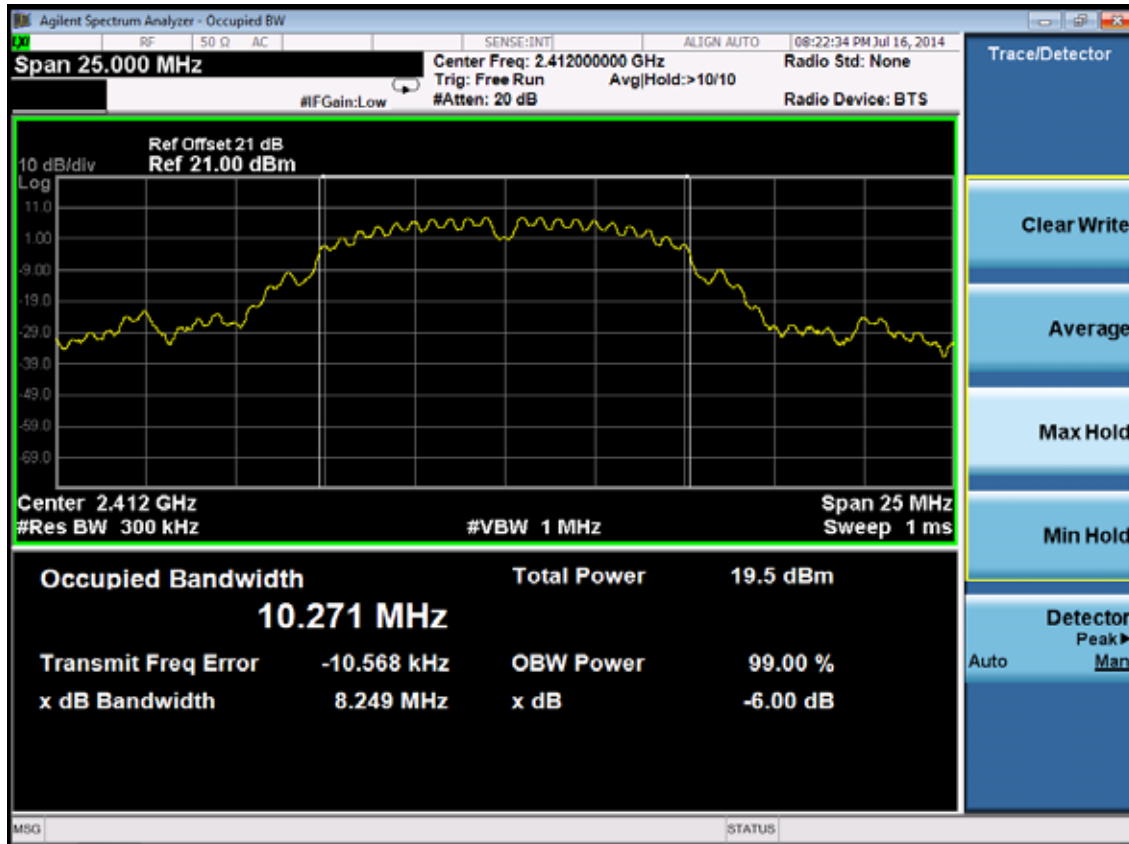
EUT:300Mbps Wireless N Gigabit ADSL2+ Modem Router		
M/N:TD-W8970		
Test date: 2014-07-26	Pressure: 101.2±1.0 kpa	Humidity: 48.8±3.0%
Tested by: Eric_lv	Test site: RF site	Temperature:22.1±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11b	CH1	8.249	N/A	>500
	CH6	8.250	N/A	>500
	CH11	8.242	N/A	>500
11g	CH1	15.95	15.32	>500
	CH6	15.80	15.30	>500
	CH11	15.60	15.65	>500
11n HT20	CH1	17.32	16.70	>500
	CH6	17.08	16.31	>500
	CH11	17.24	16.66	>500
11n HT40	CH1	36.51	36.49	>500
	CH4	36.47	36.41	>500
	CH7	36.51	35.40	>500
Conclusion : PASS				

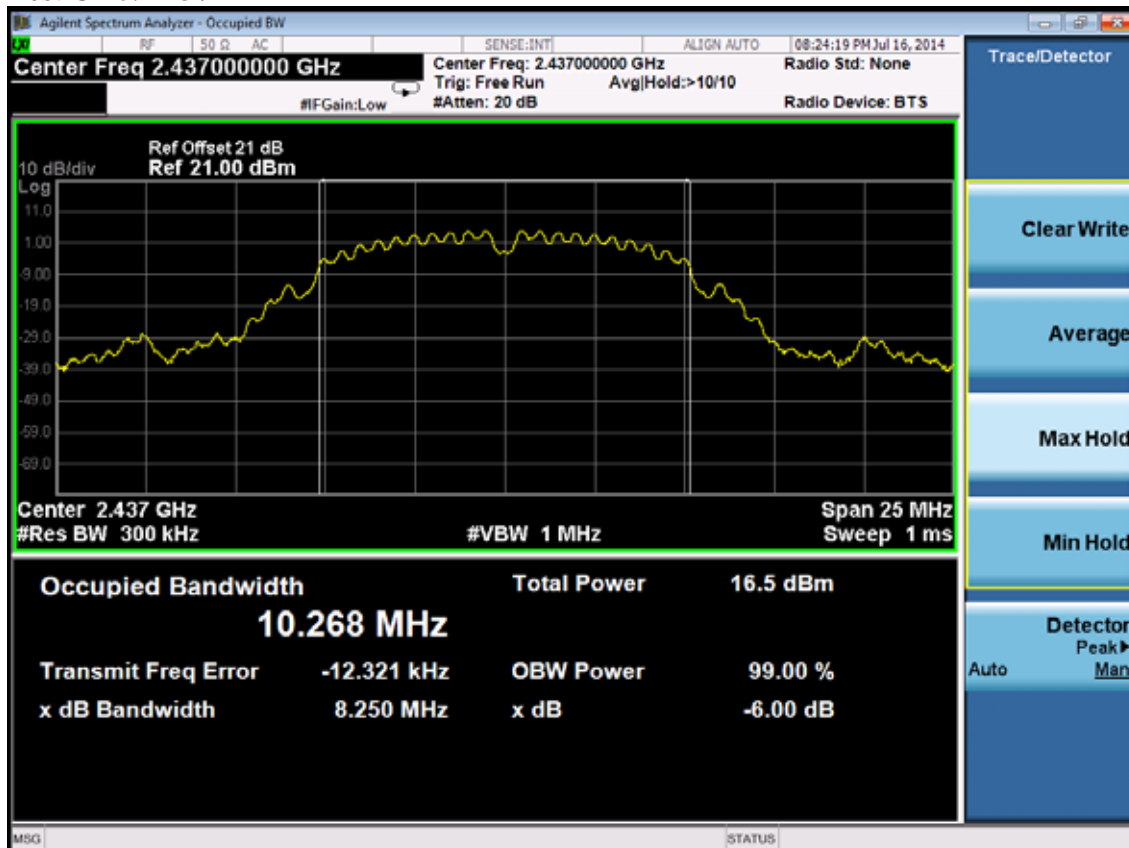
ANT 0

Test Mode: IEEE 802.11b TX

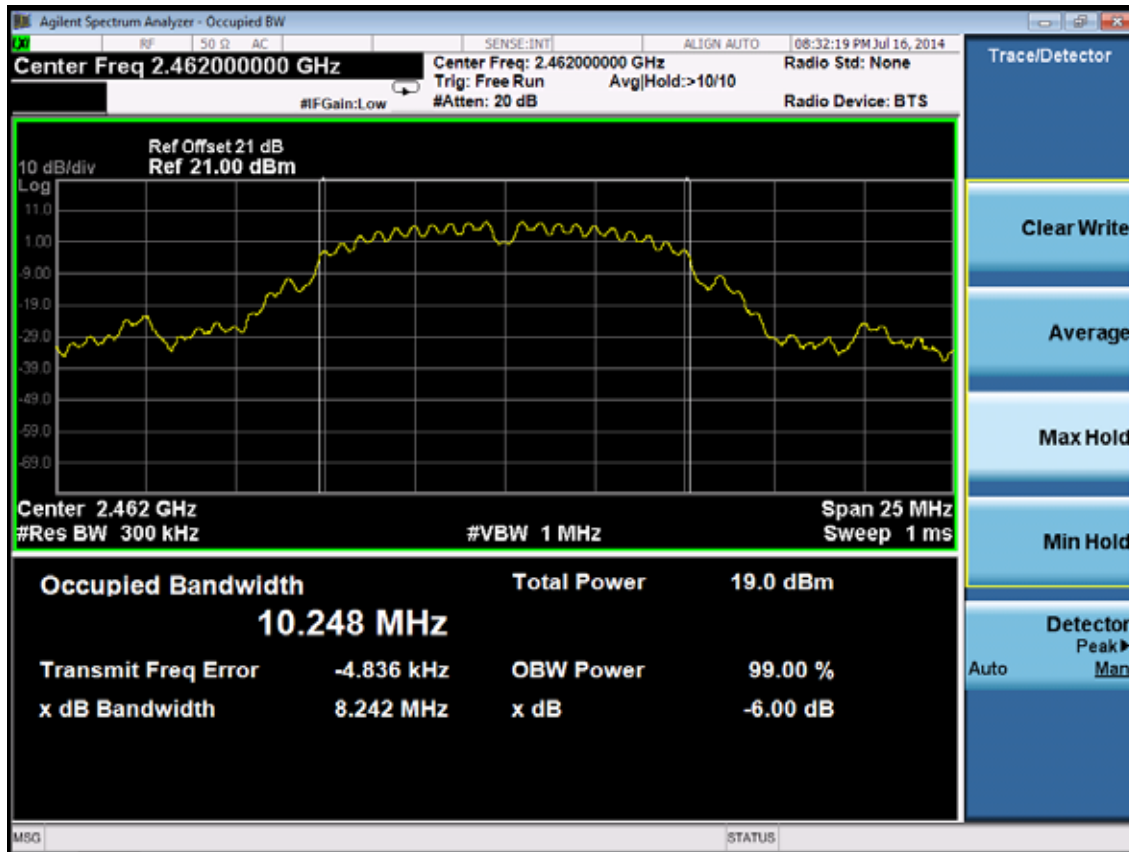
Test CH1: 2412MHz



Test CH6: 2437MHz

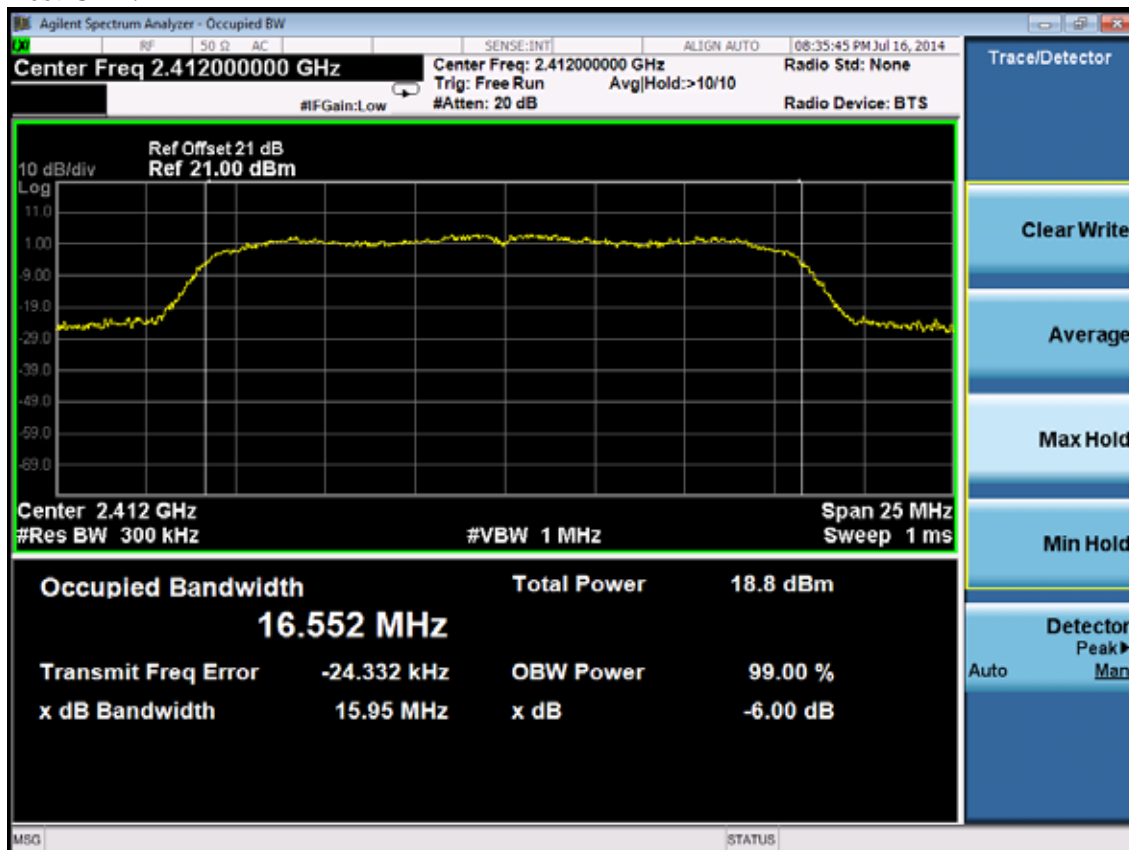


Test CH11: 2462MHz

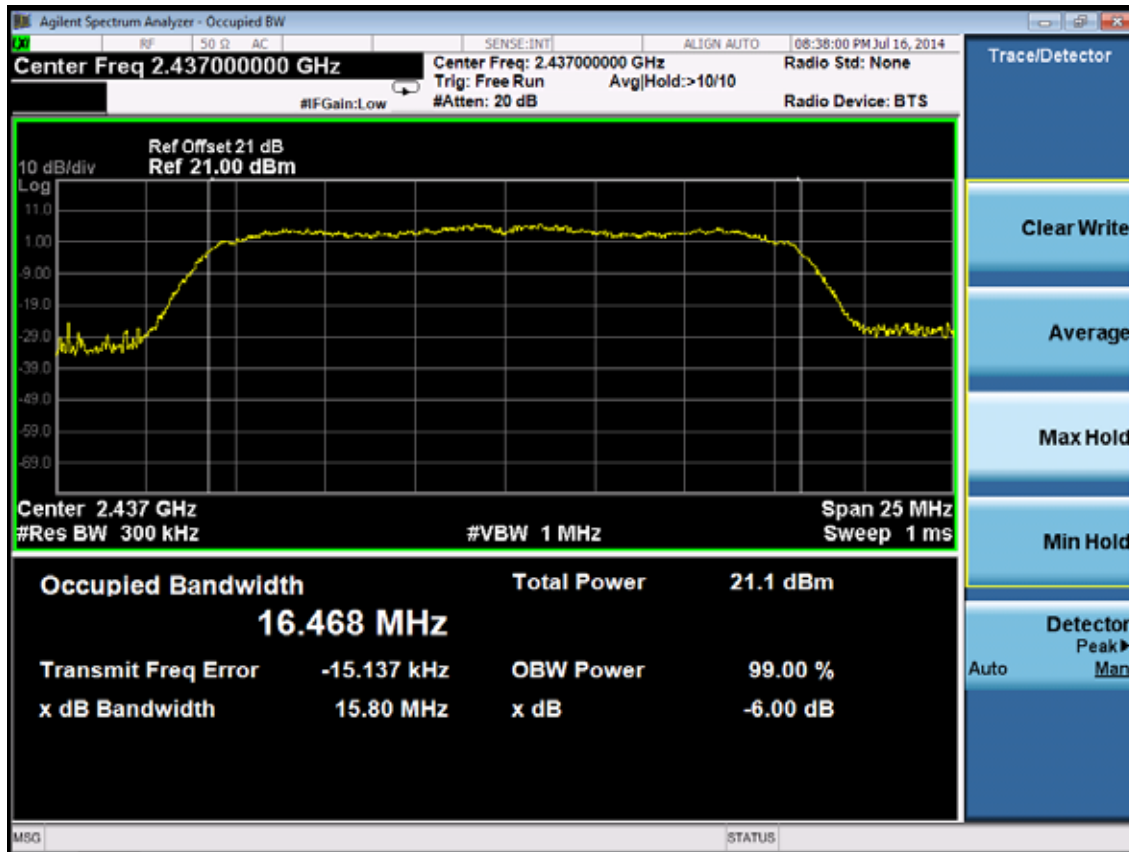


Test Mode: IEEE 802.11g TX

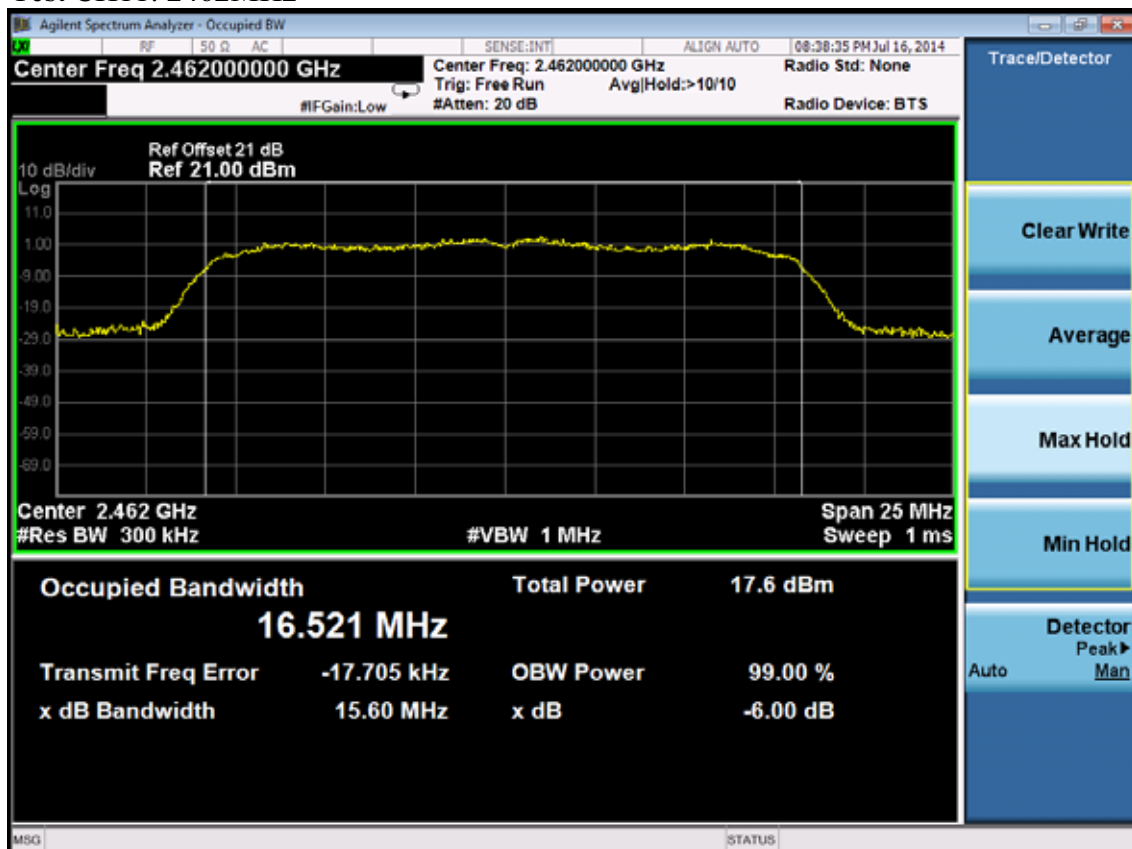
Test CH1: 2412MHz



Test CH6: 2437MHz

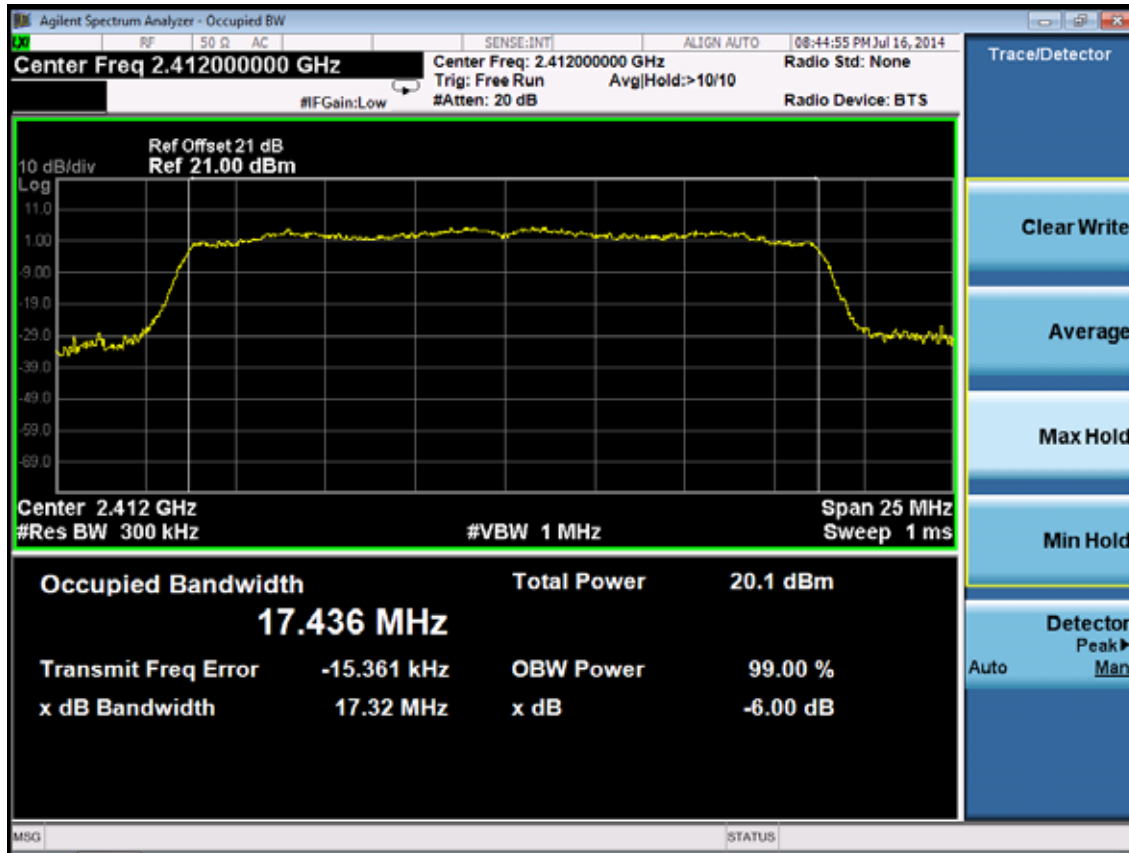


Test CH11: 2462MHz

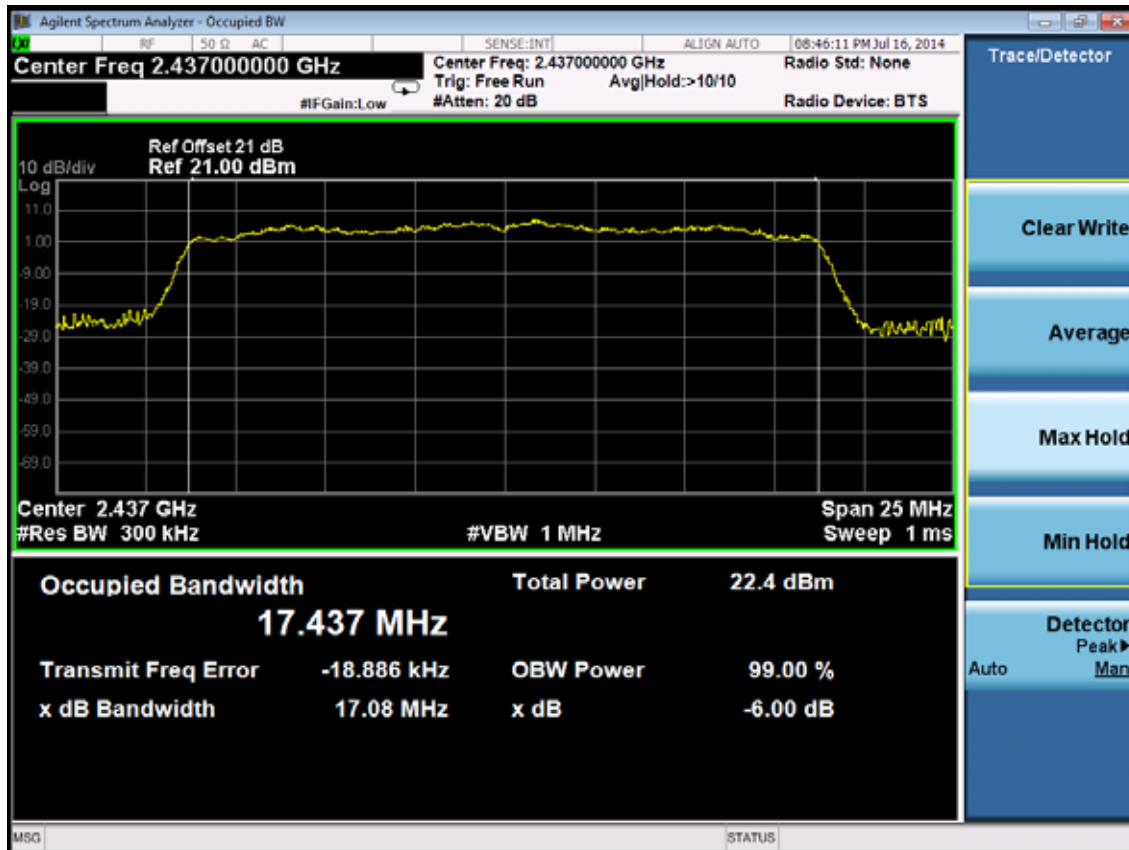


Test Mode: IEEE 802.11n HT20 TX

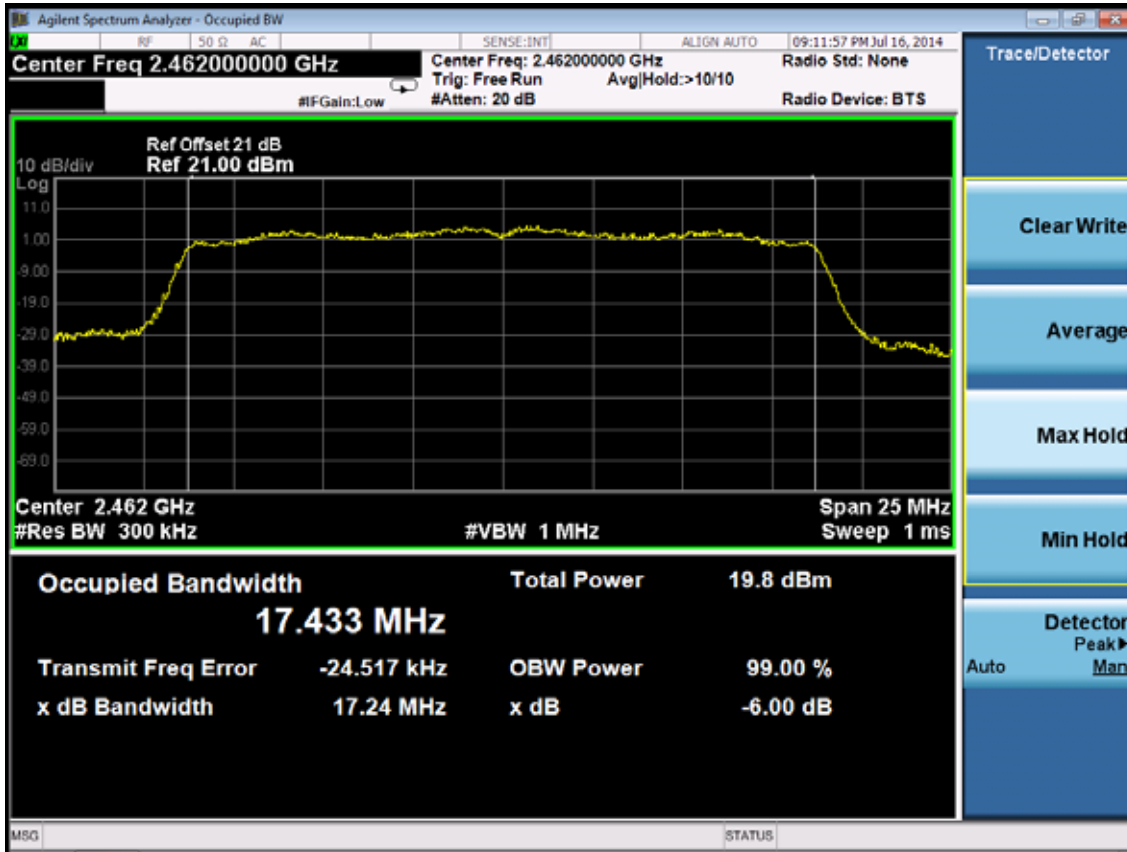
Test CH1: 2412MHz



Test CH6: 2437MHz

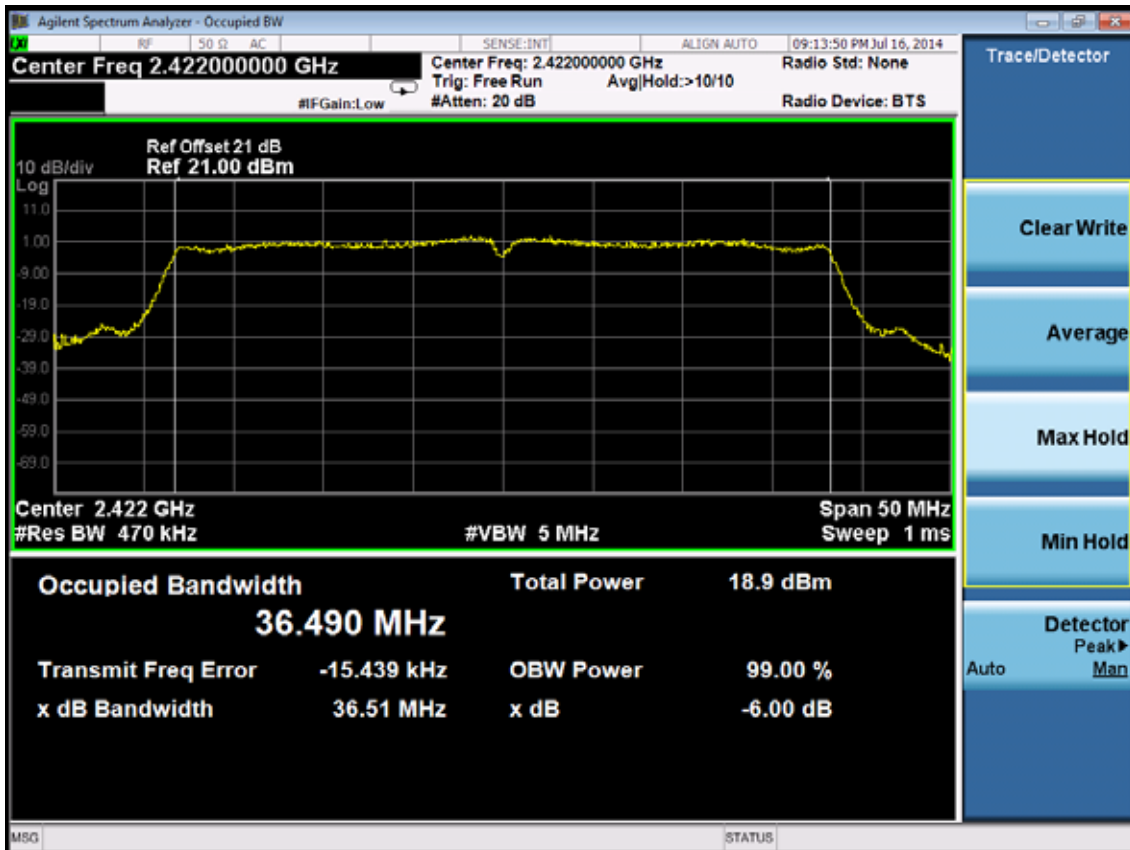


Test CH11: 2462MHz

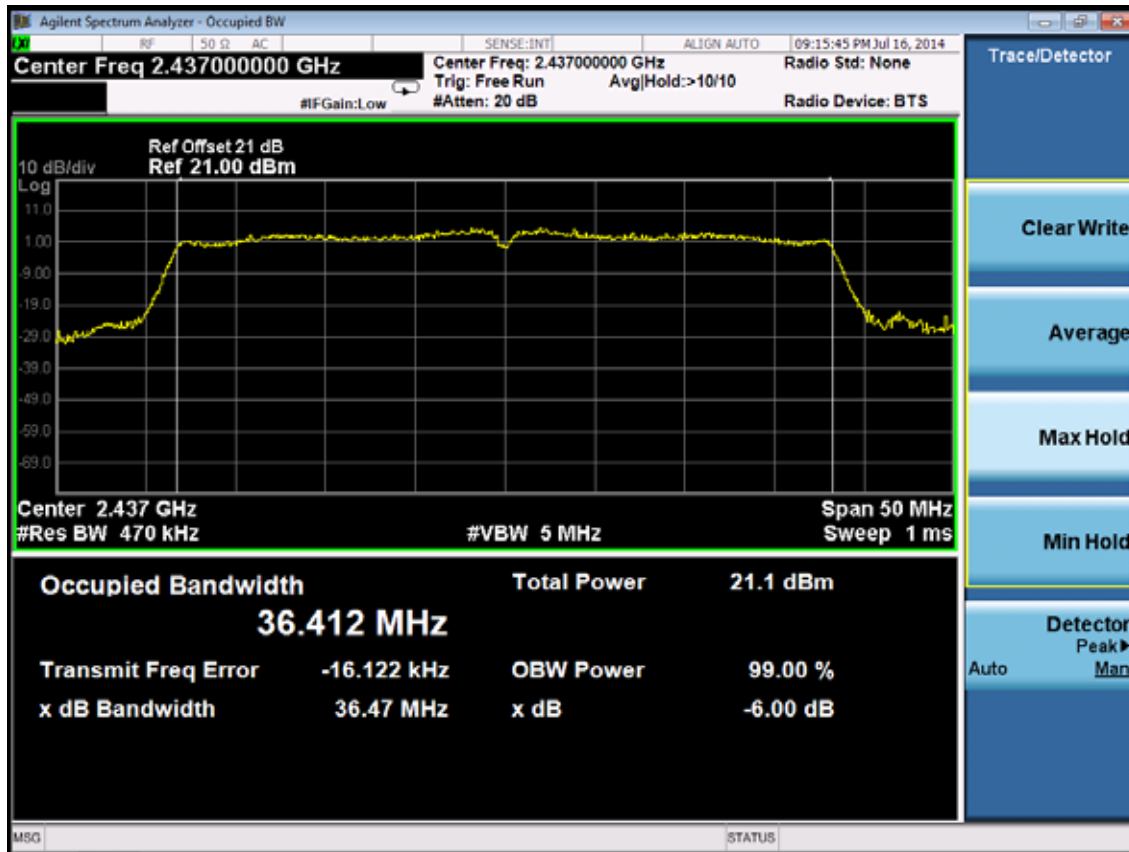


Test Mode: IEEE 802.11n HT40 TX

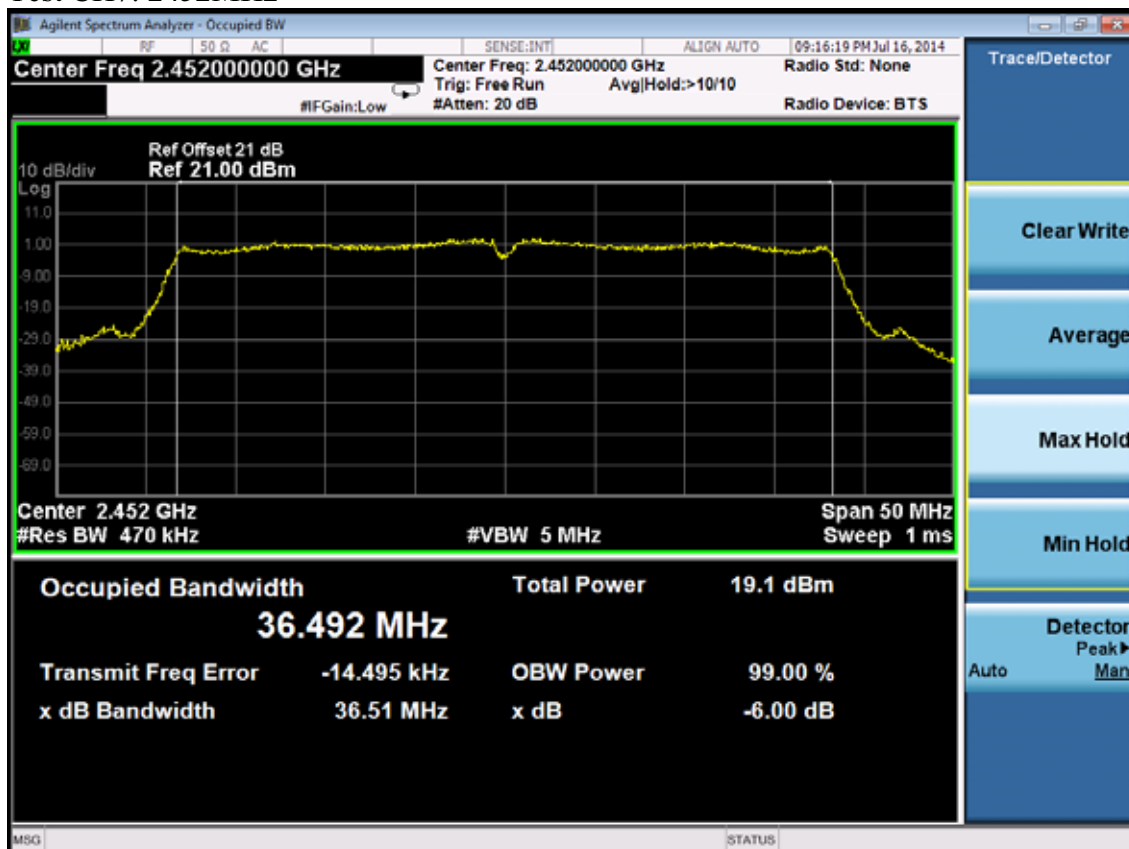
Test CH1: 2422MHz



Test CH4: 2437MHz



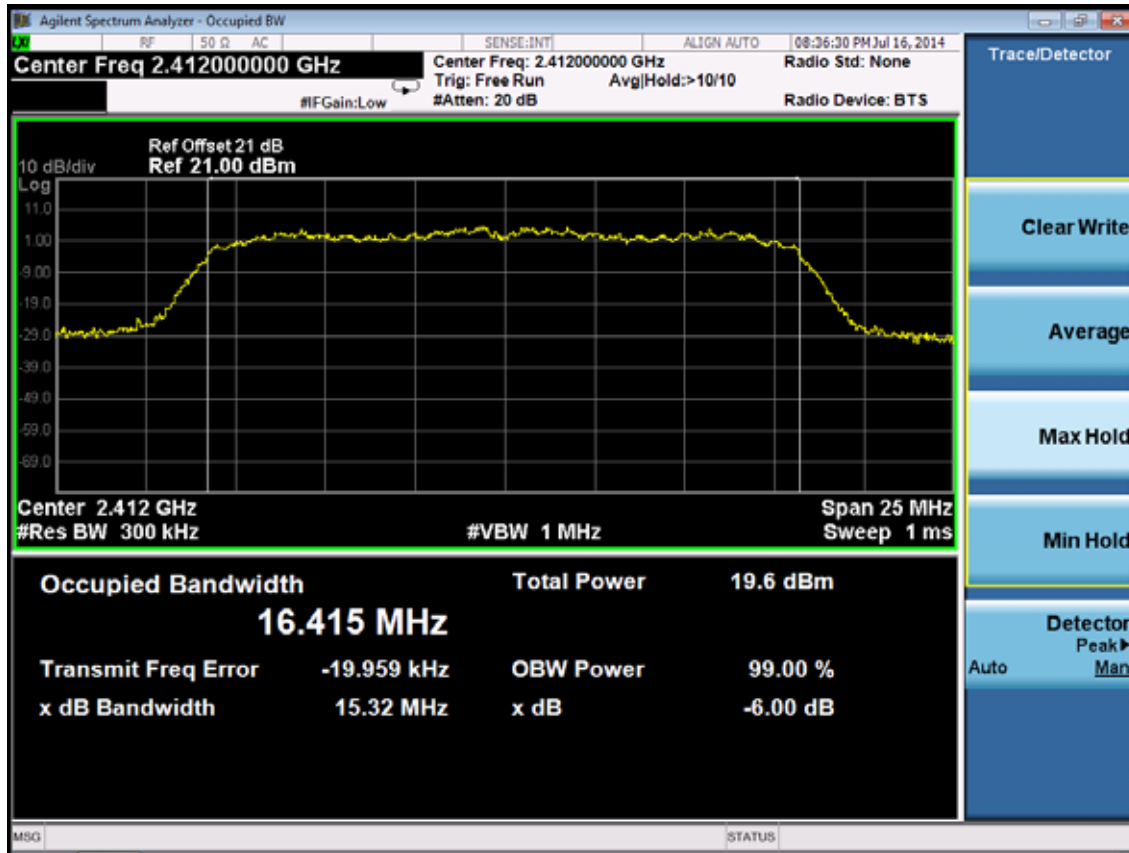
Test CH7: 2452MHz



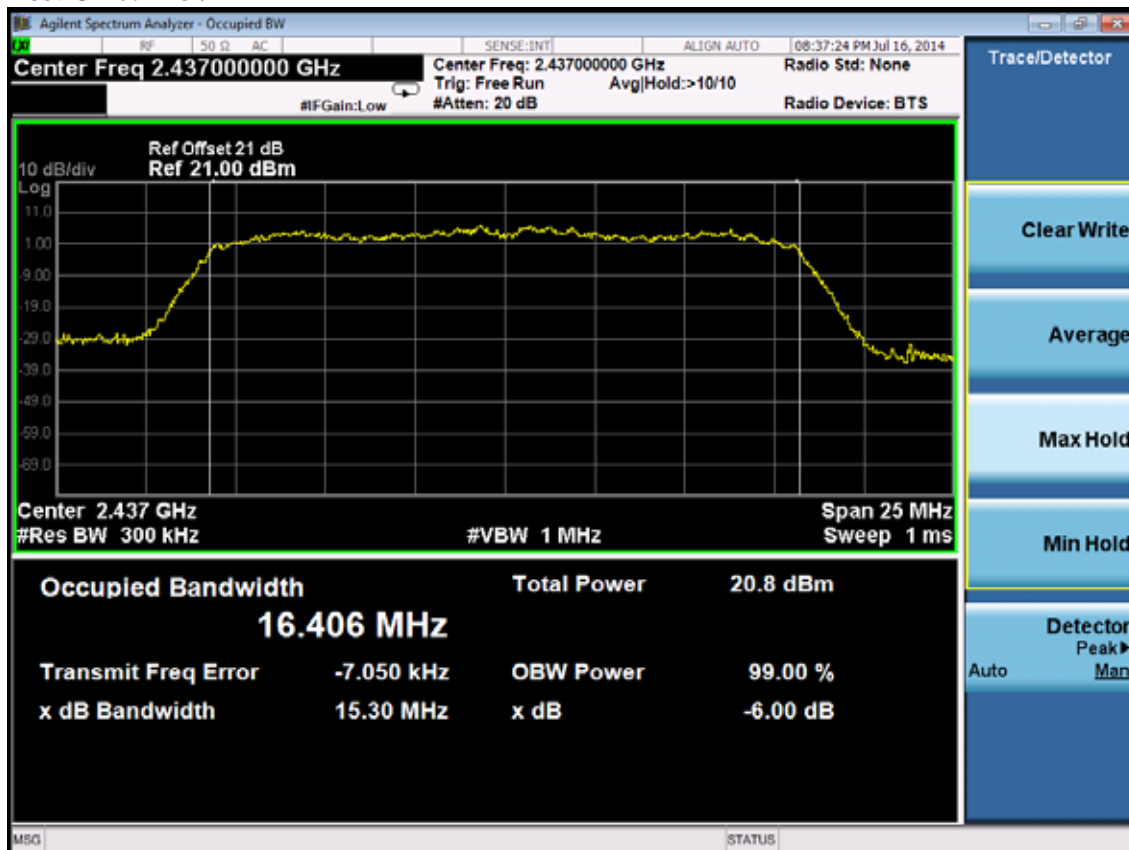
ANT 1

Test Mode: IEEE 802.11g TX

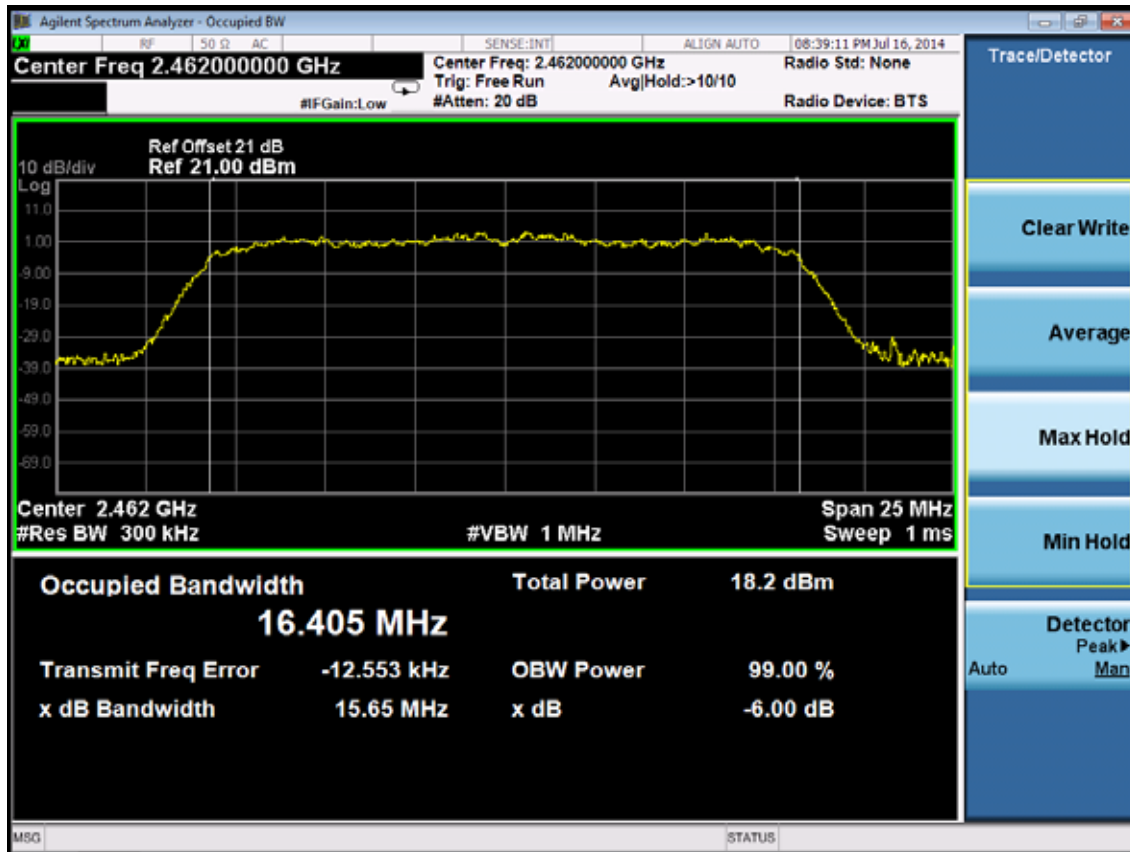
Test CH1: 2412MHz



Test CH6: 2437MHz

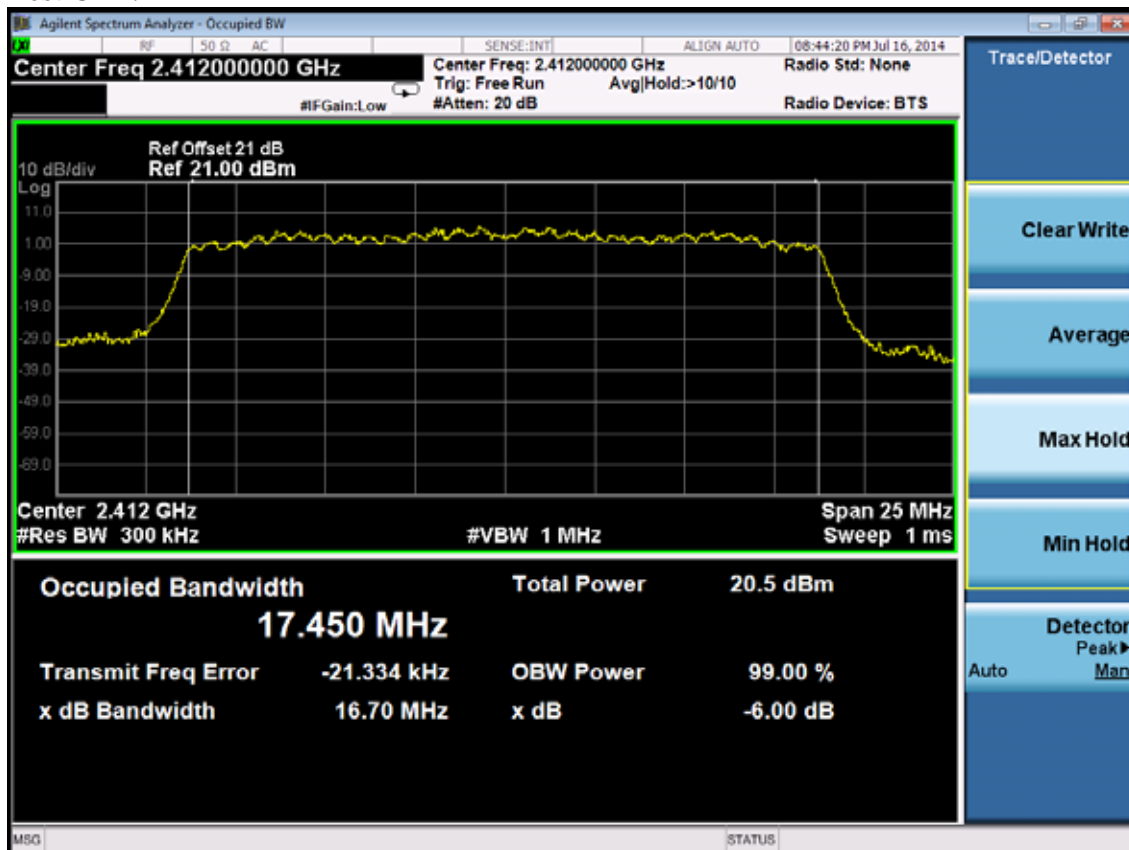


Test CH11: 2462MHz

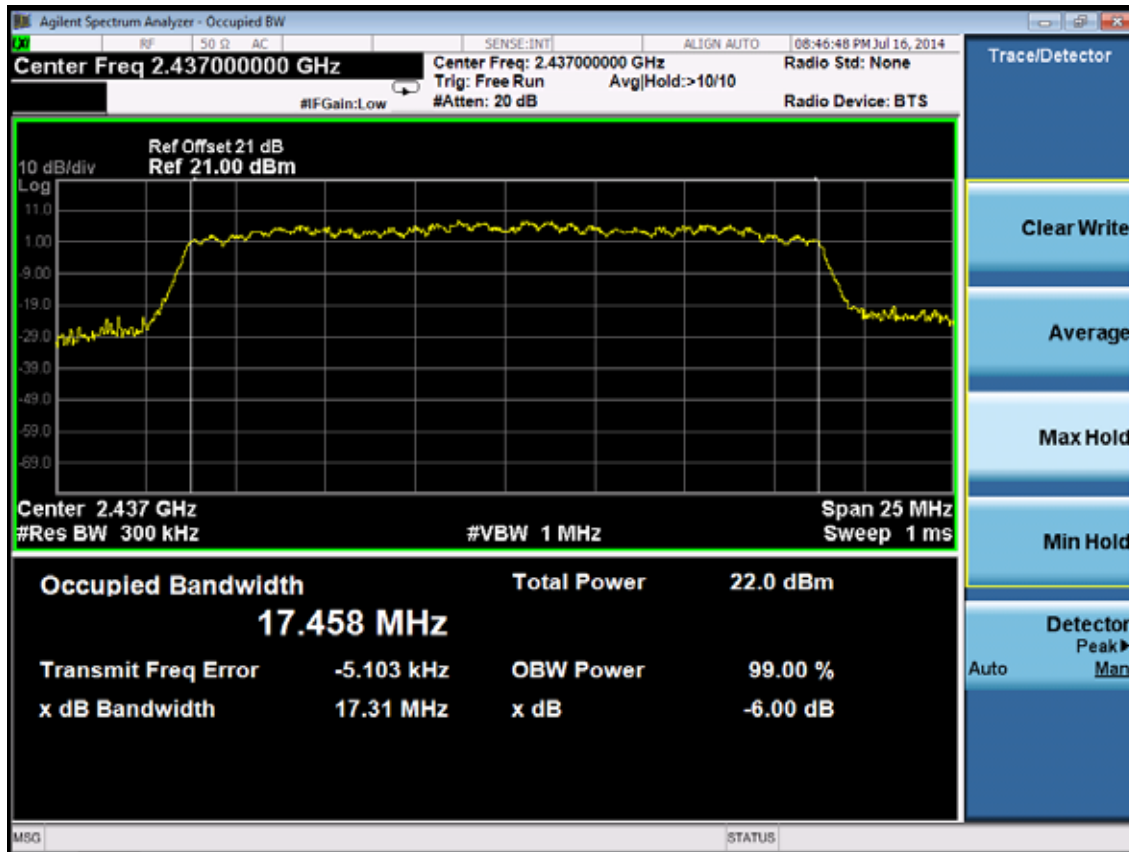


Test Mode: IEEE 802.11n HT20 TX

Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz

