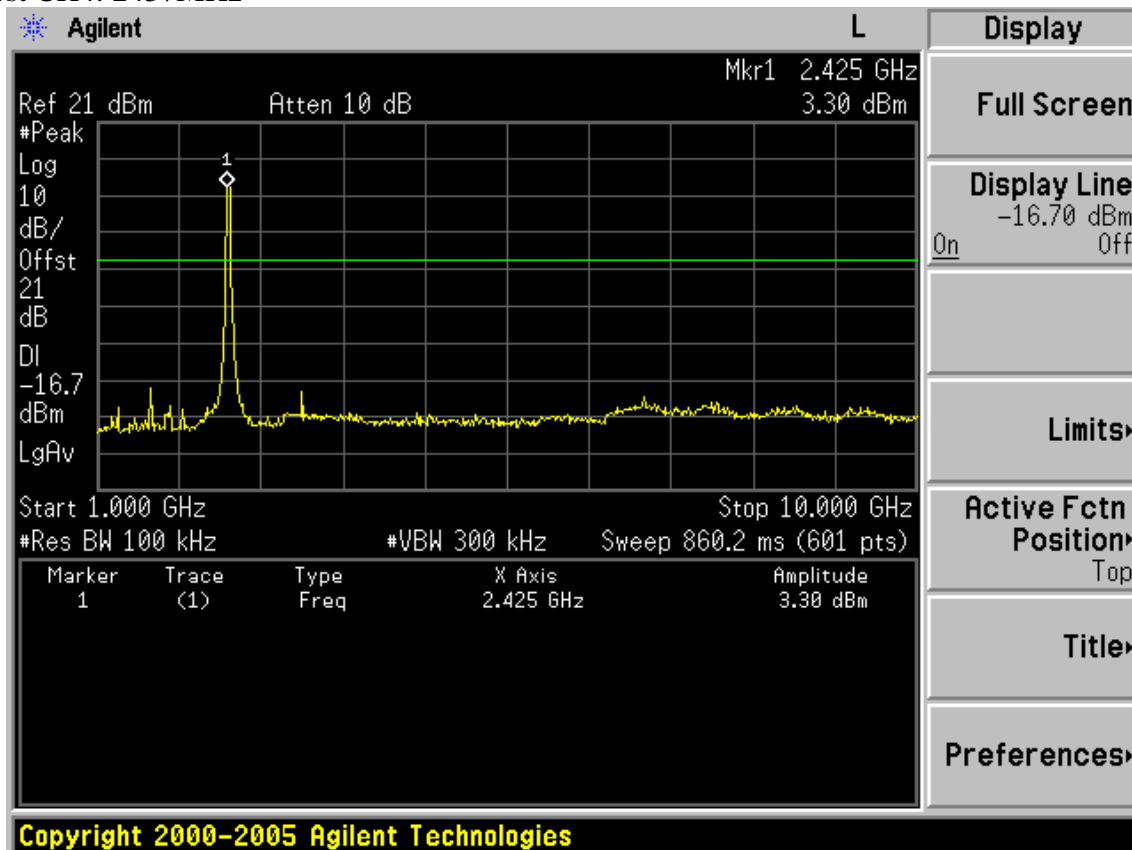
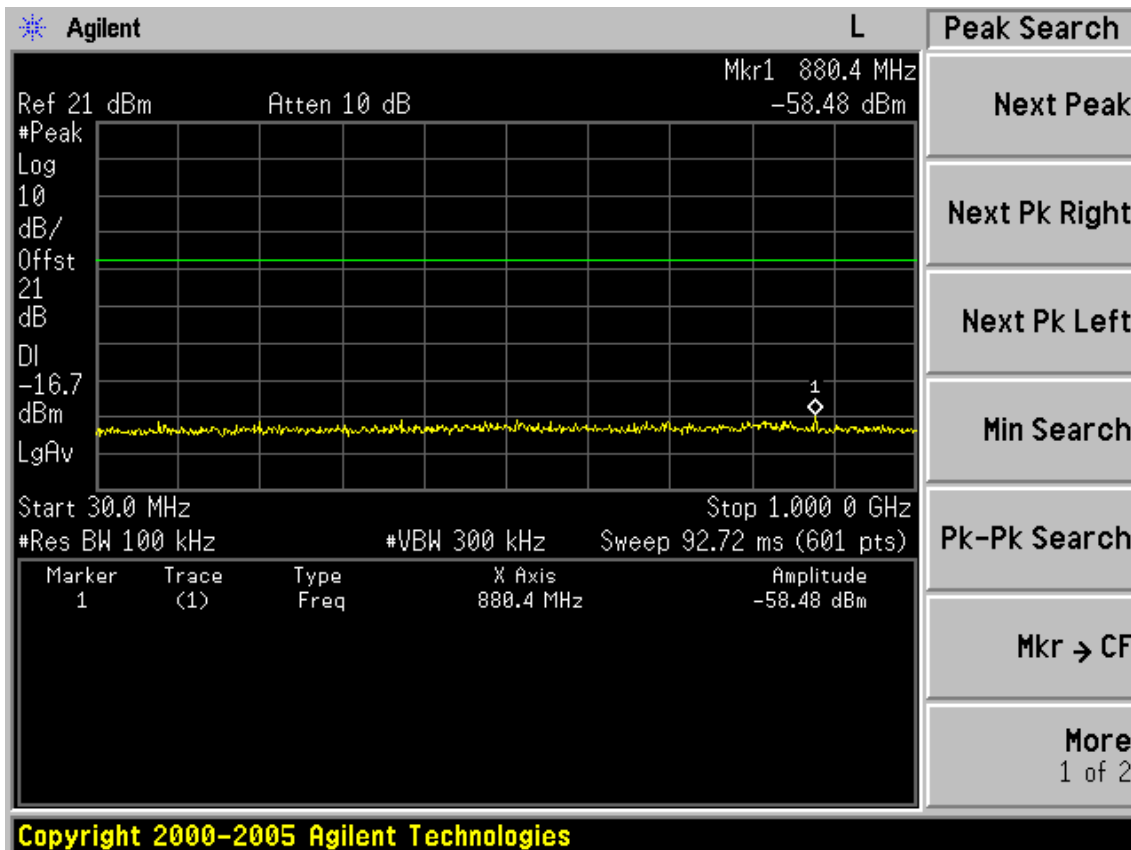
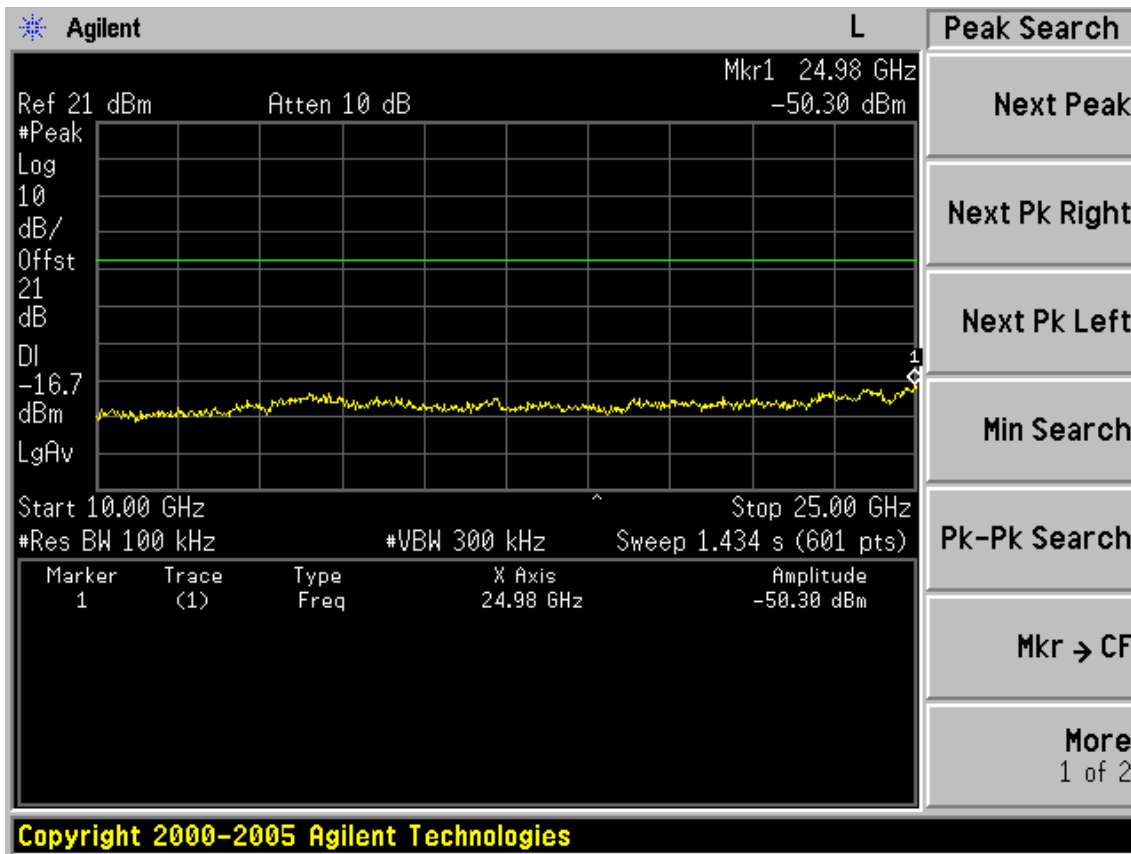
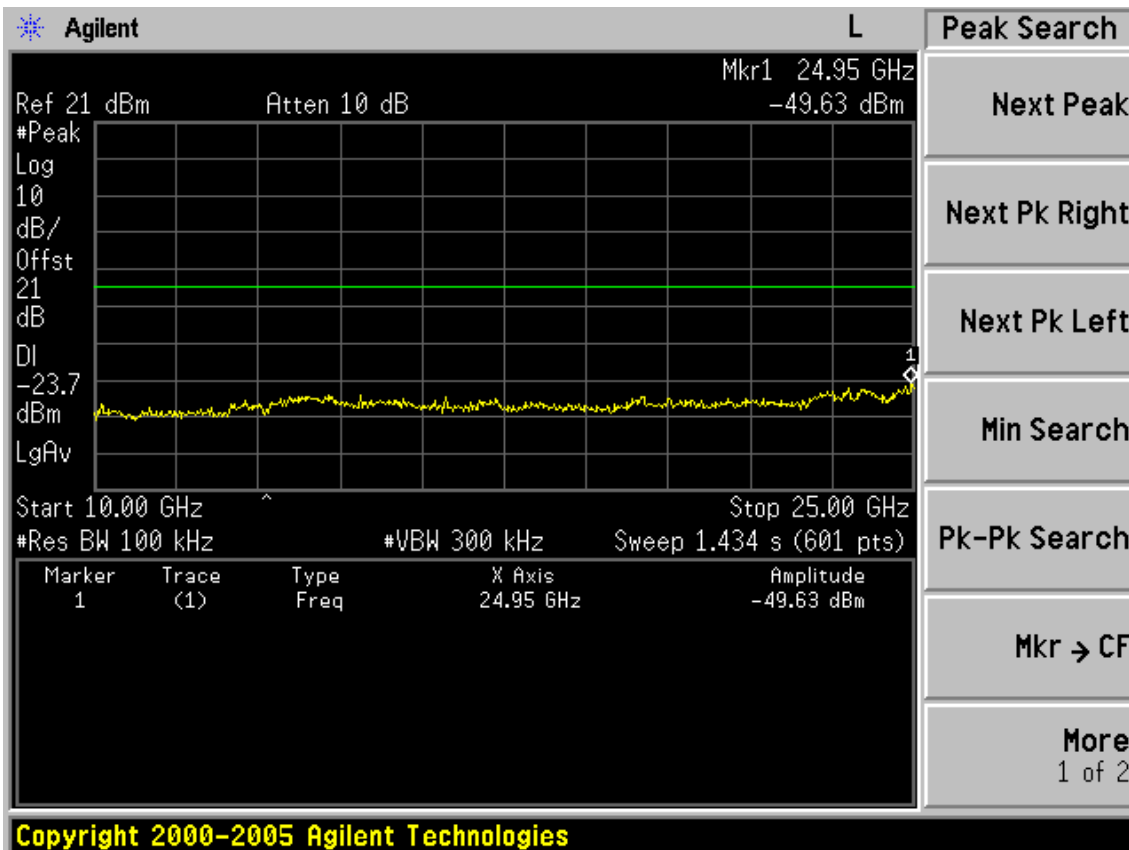
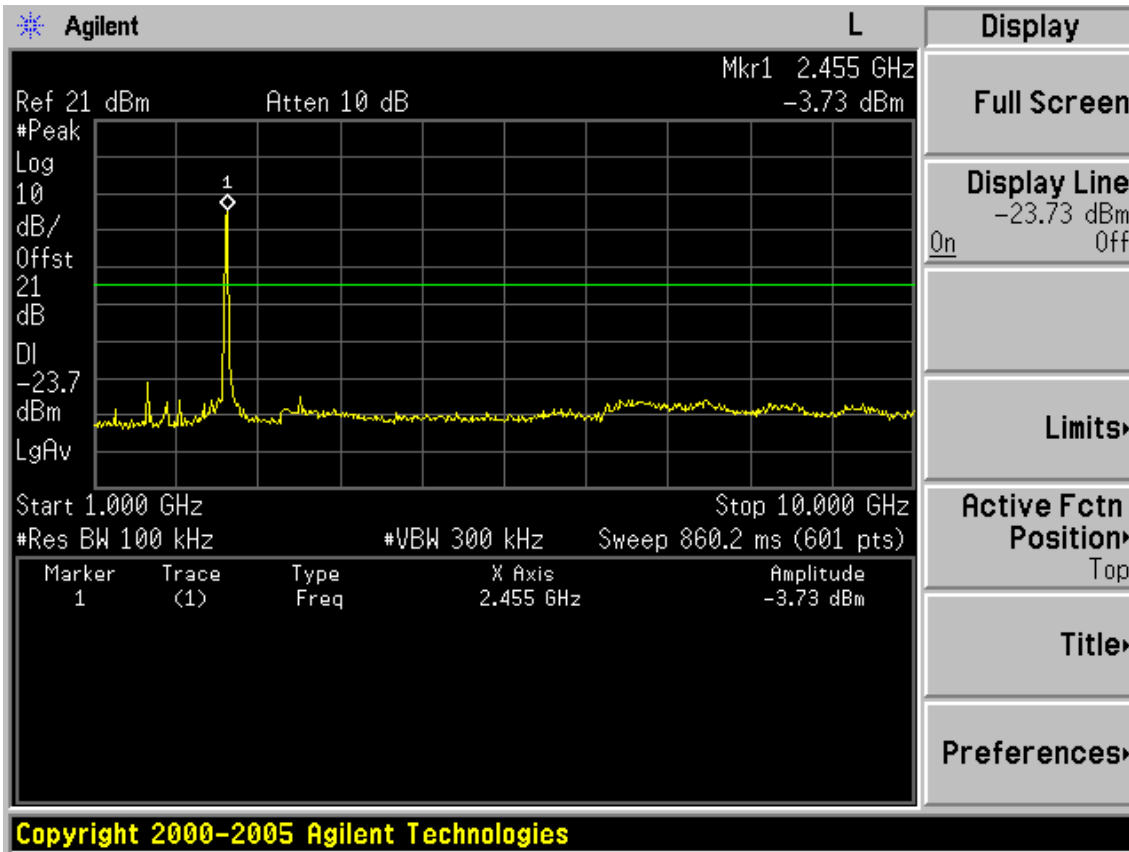


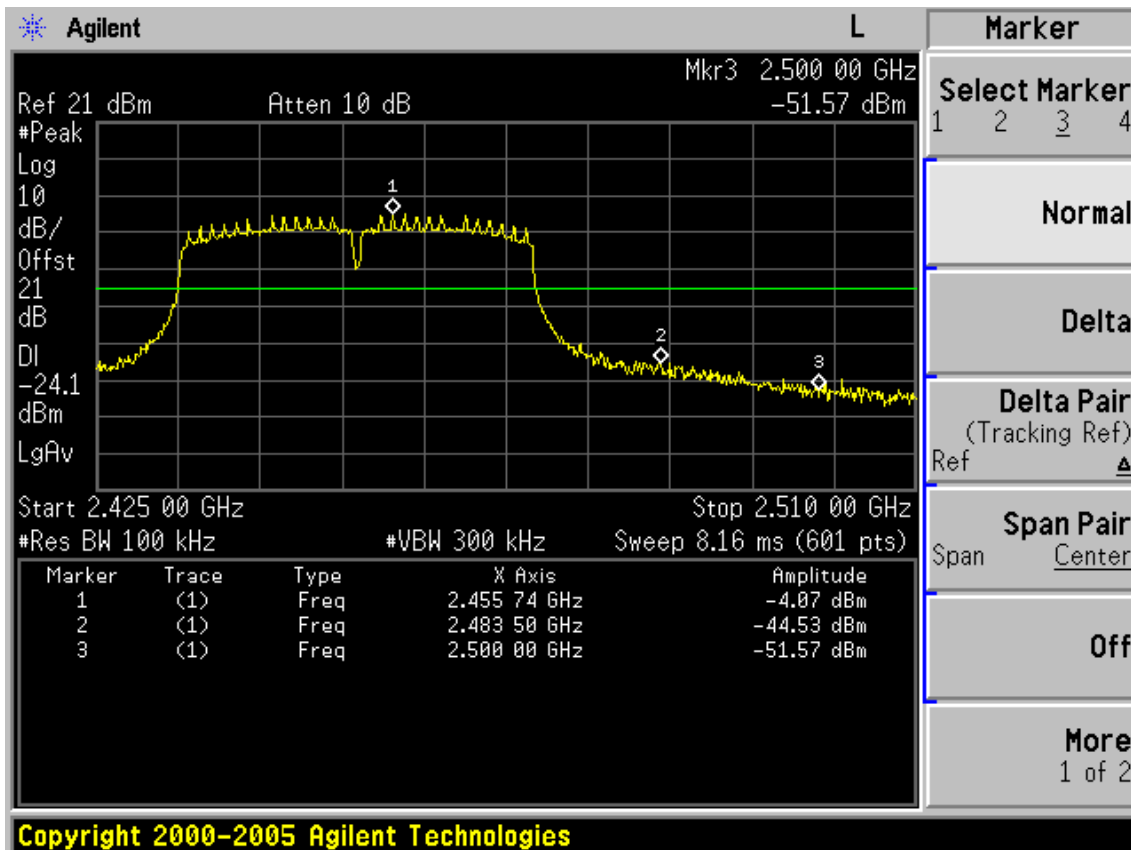
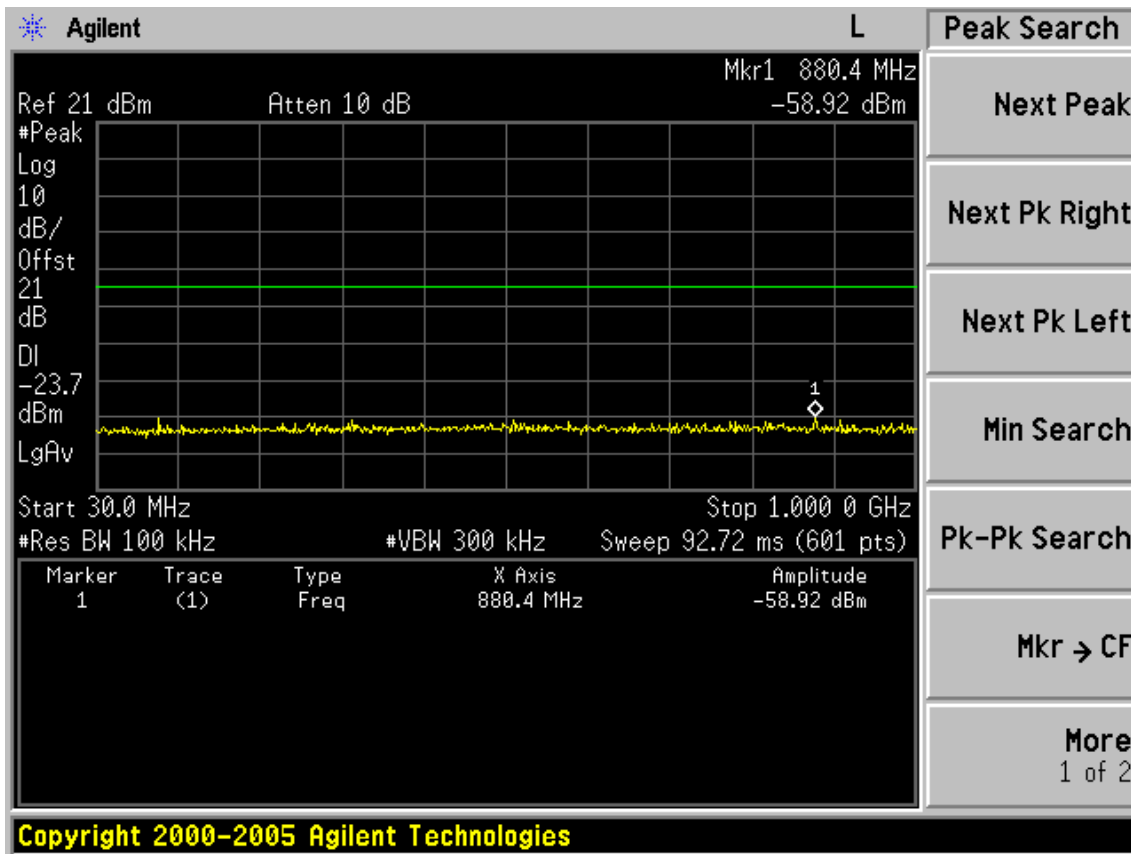
Test CH4: 2437MHz





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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

6.2. Limit

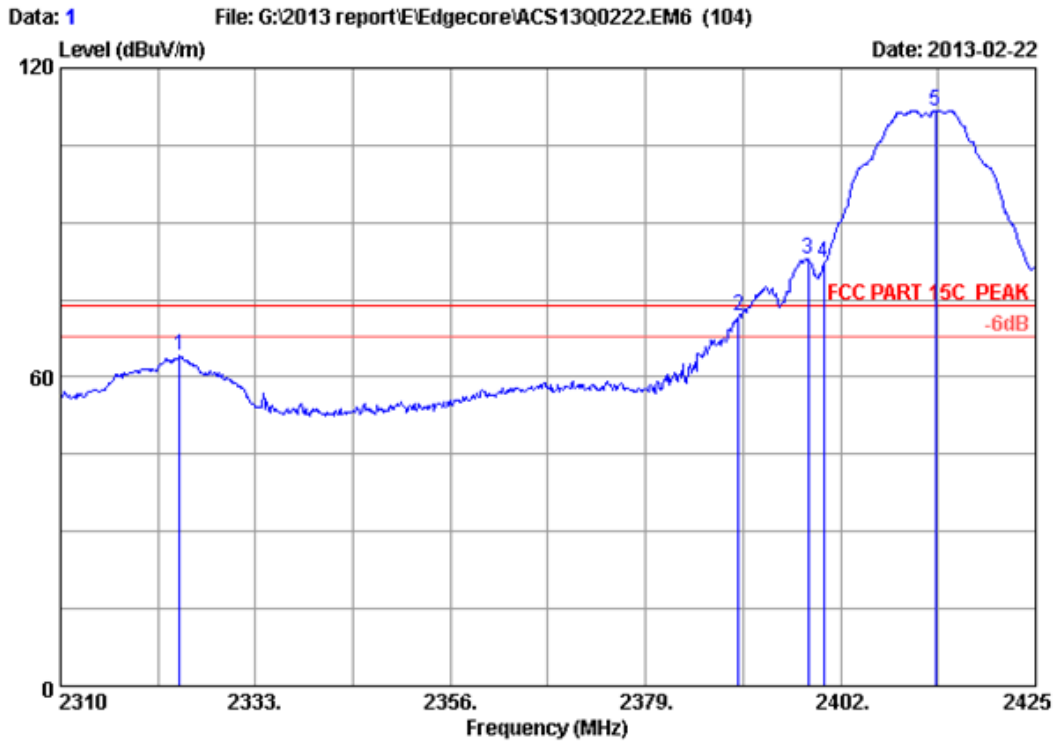
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

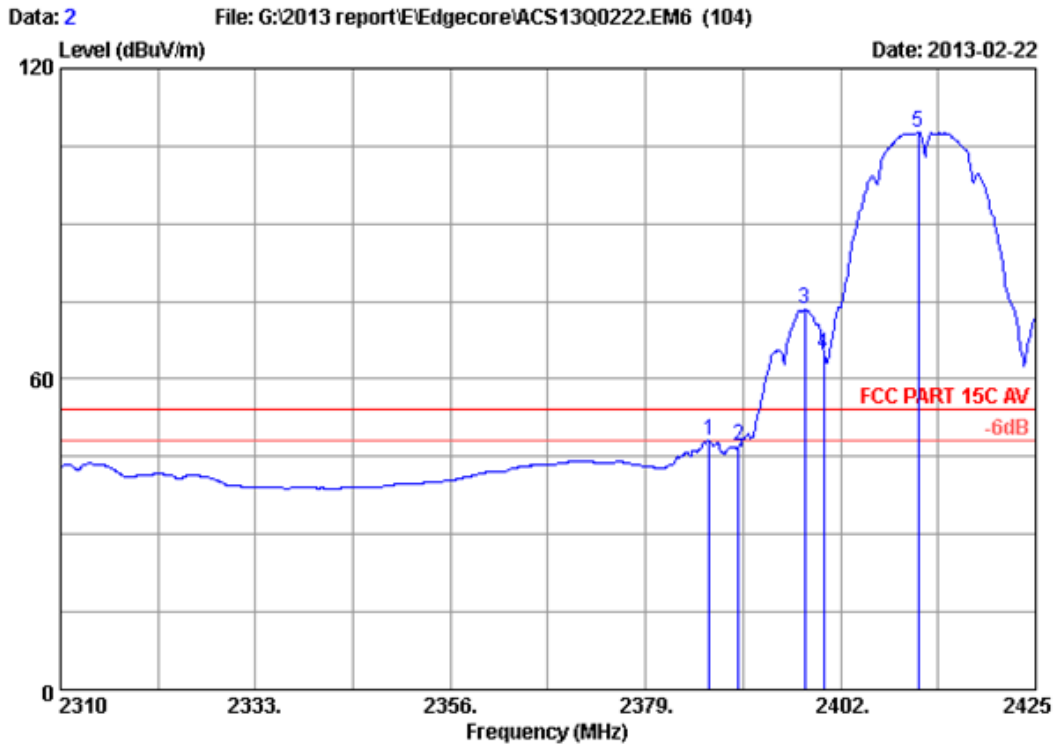


Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2324.030	27.86	5.89	34.43	64.84	64.16	74.00	9.84	Peak
2	2390.000	27.96	6.01	34.44	72.25	71.78	74.00	2.22	Peak
3	2398.205	27.96	6.01	34.44	83.50	83.03	74.00	-9.03	Peak
4	2400.000	27.96	6.01	34.44	82.83	82.36	74.00	-8.36	Peak
5	2413.155	27.98	6.03	34.44	112.17	111.74	74.00	-37.74	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.

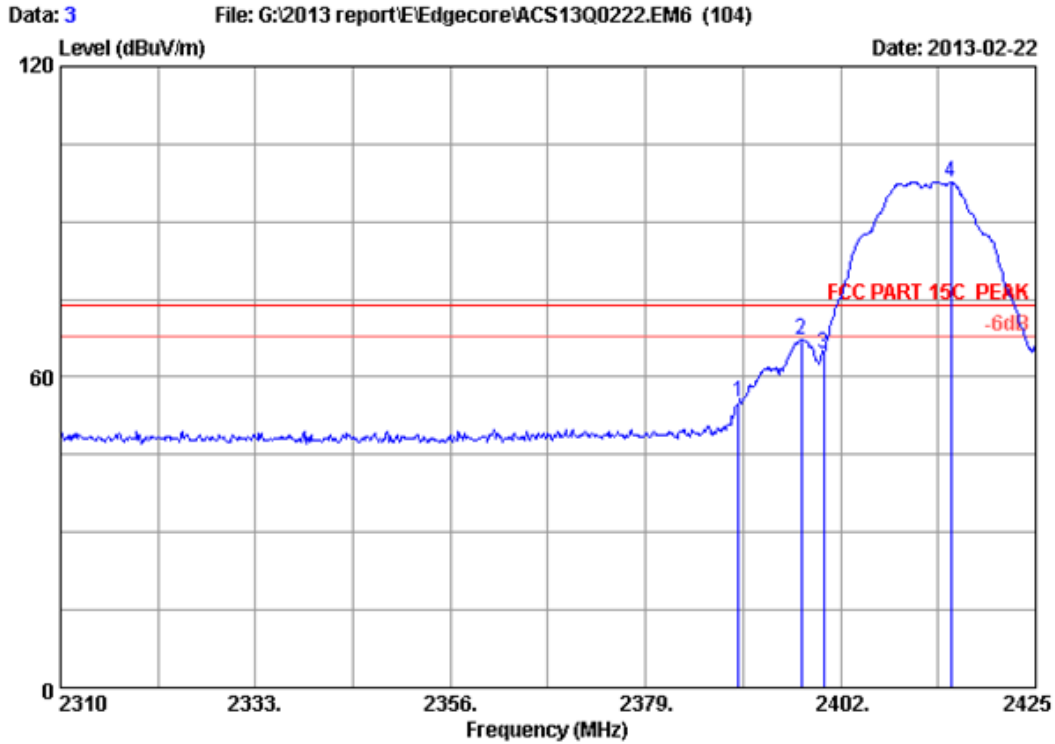


Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission		Limits	Margin	Remark
Freq.	Factor	loss	Factor	Reading	Level	(dBuV/m)	(dB)	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)			
1 2386.475	27.96	6.01	34.44	48.48	48.01	54.00	5.99	Average
2 2390.000	27.96	6.01	34.44	47.69	47.22	54.00	6.78	Average
3 2397.745	27.96	6.01	34.44	73.86	73.39	54.00	-19.39	Average
4 2400.000	27.96	6.01	34.44	65.47	65.00	54.00	-11.00	Average
5 2411.200	27.98	6.03	34.44	108.03	107.60	54.00	-53.60	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.

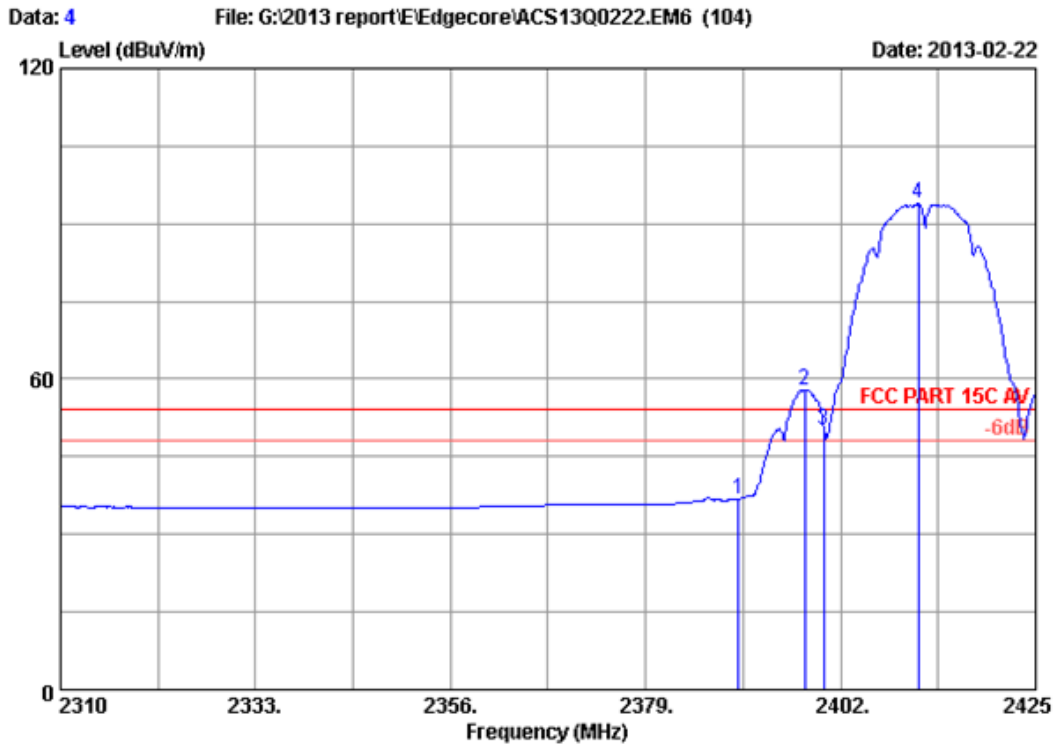


Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2390.000	27.96	6.01	34.44	55.73	55.26	74.00	18.74	Peak	
2 2397.400	27.96	6.01	34.44	67.76	67.29	74.00	6.71	Peak	
3 2400.000	27.96	6.01	34.44	64.97	64.50	74.00	9.50	Peak	
4 2414.995	27.98	6.03	34.44	98.08	97.65	74.00	-23.65	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.

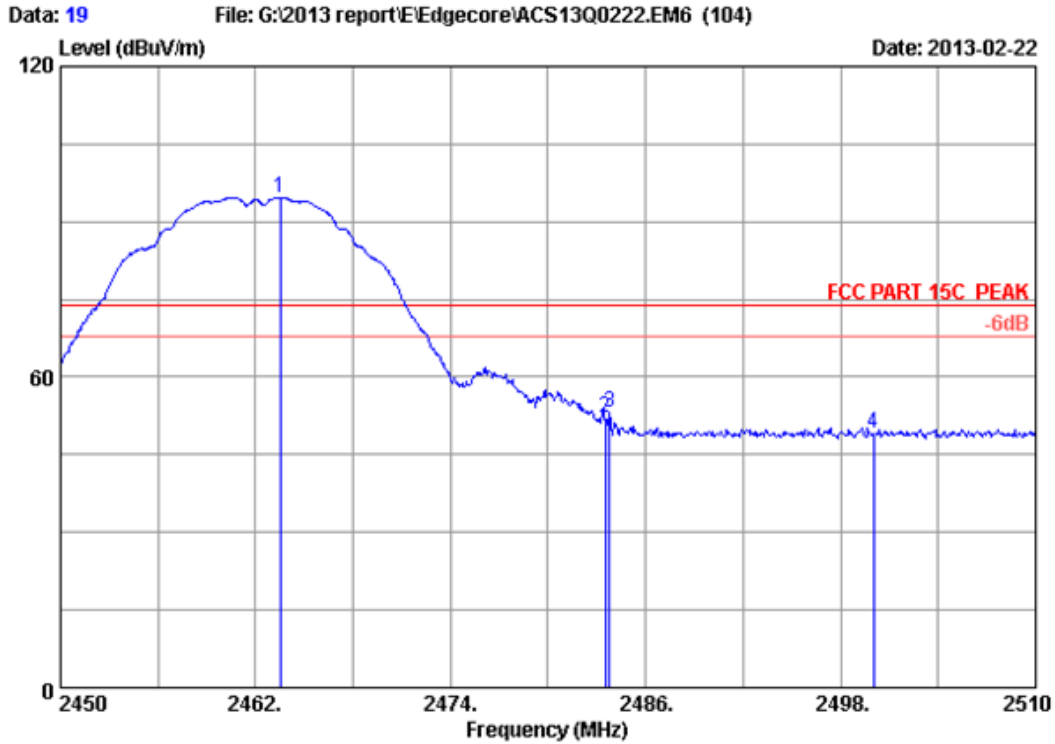


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	37.34	36.87	54.00	17.13	Average
2	2397.745	27.96	6.01	34.44	58.31	57.84	54.00	-3.84	Average
3	2400.000	27.96	6.01	34.44	50.45	49.98	54.00	4.02	Average
4	2411.200	27.98	6.03	34.44	94.25	93.82	54.00	-39.82	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.

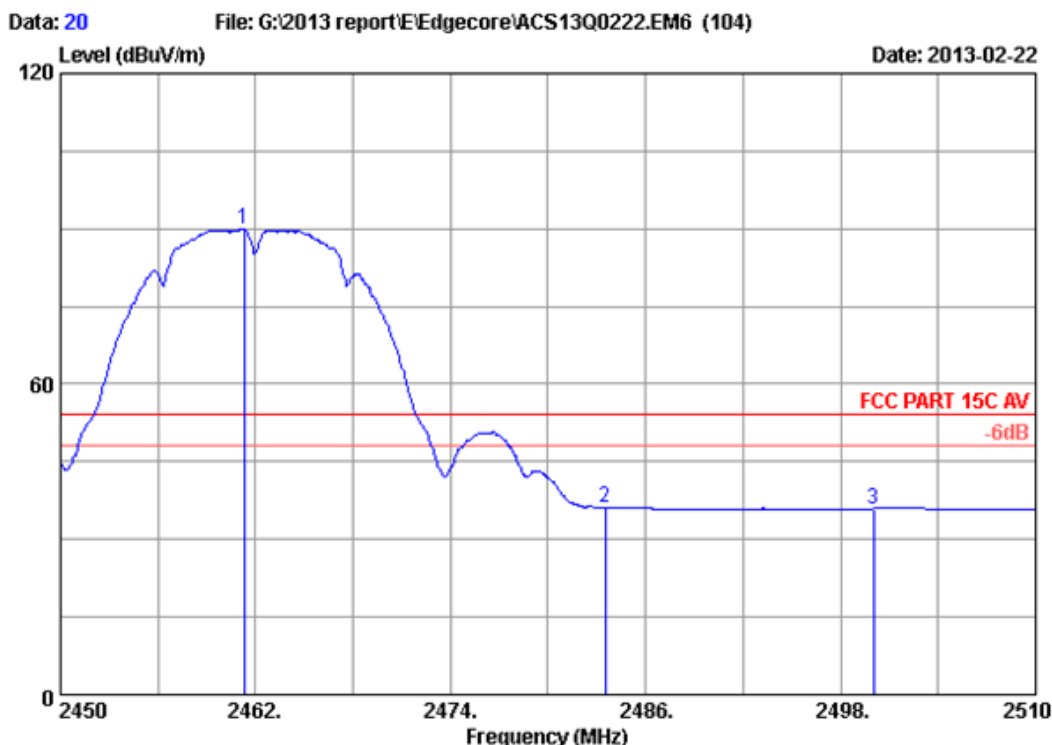


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	28.05	6.12	34.45	94.89	94.61	74.00	-20.61	Peak
2	2483.500	28.08	6.15	34.45	52.22	52.00	74.00	22.00	Peak
3	2483.780	28.08	6.15	34.45	53.37	53.15	74.00	20.85	Peak
4	2500.000	28.10	6.18	34.45	49.29	49.12	74.00	24.88	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.

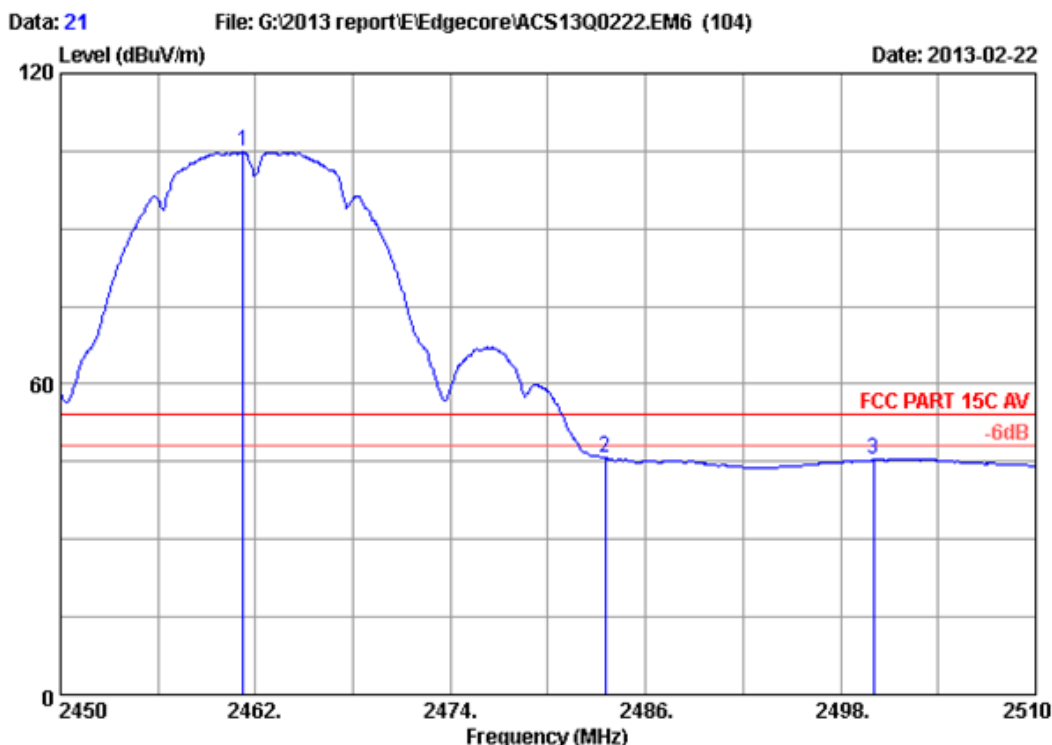


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 2461.280	28.05	6.12	34.44	90.16	89.89	54.00	-35.89	Average
2 2483.500	28.08	6.15	34.45	36.39	36.17	54.00	17.83	Average
3 2500.000	28.10	6.18	34.45	36.10	35.93	54.00	18.07	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.

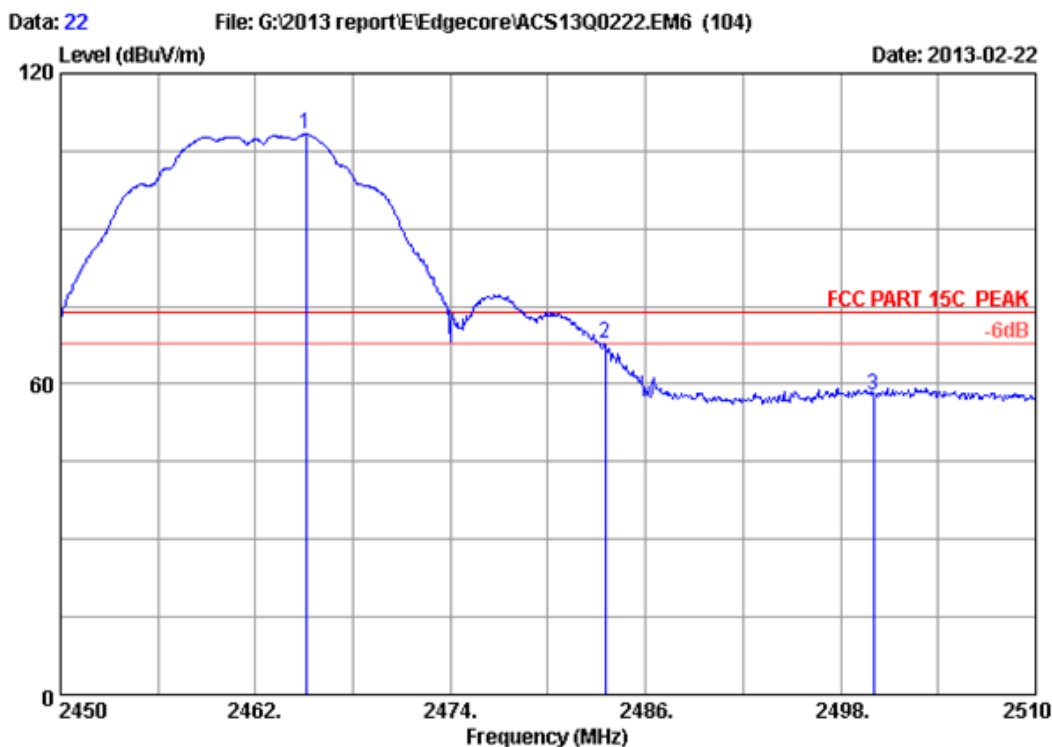


Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2461.220	28.05	6.12	34.44	105.11	104.84	54.00	-50.84	Average	
2 2483.500	28.08	6.15	34.45	45.95	45.73	54.00	8.27	Average	
3 2500.000	28.10	6.18	34.45	45.49	45.32	54.00	8.68	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.

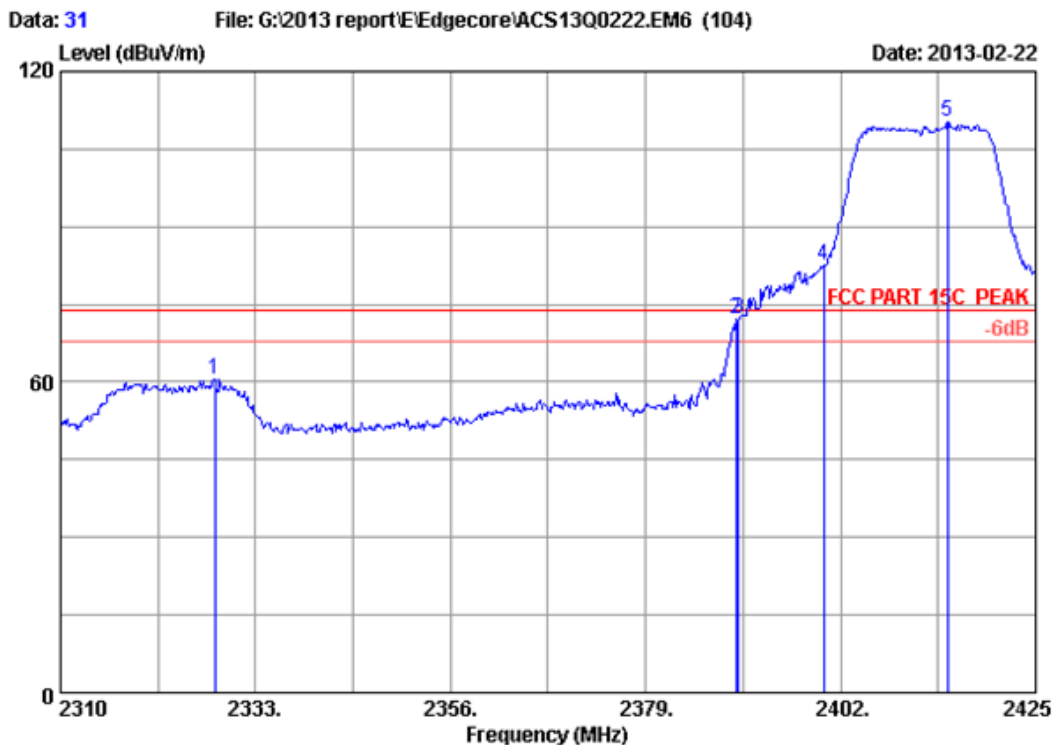


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2465.120	28.05	6.12	34.45	108.52	108.24	74.00	-34.24	Peak
2	2483.500	28.08	6.15	34.45	67.96	67.74	74.00	6.26	Peak
3	2500.000	28.10	6.18	34.45	58.14	57.97	74.00	16.03	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.

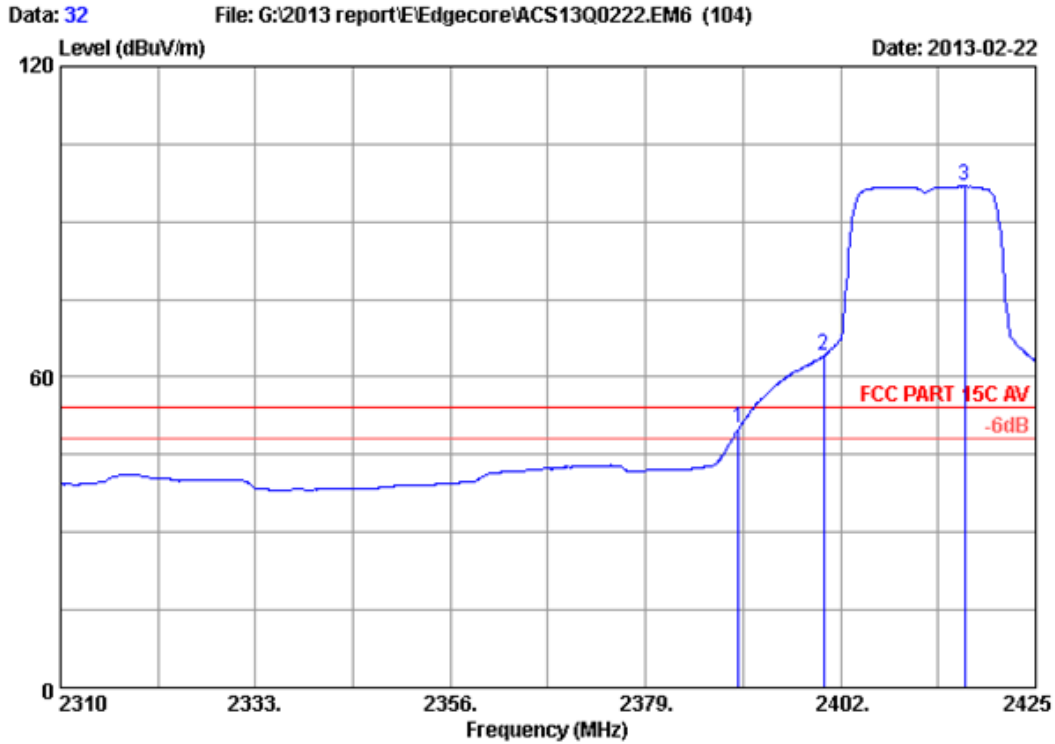


Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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 2328.170	27.86	5.89	34.43	61.10	60.42	74.00	13.58	Peak
2 2389.695	27.96	6.01	34.44	72.76	72.29	74.00	1.71	Peak
3 2390.000	27.96	6.01	34.44	72.52	72.05	74.00	1.95	Peak
4 2400.000	27.96	6.01	34.44	82.95	82.48	74.00	-8.48	Peak
5 2414.650	27.98	6.03	34.44	110.75	110.32	74.00	-36.32	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.

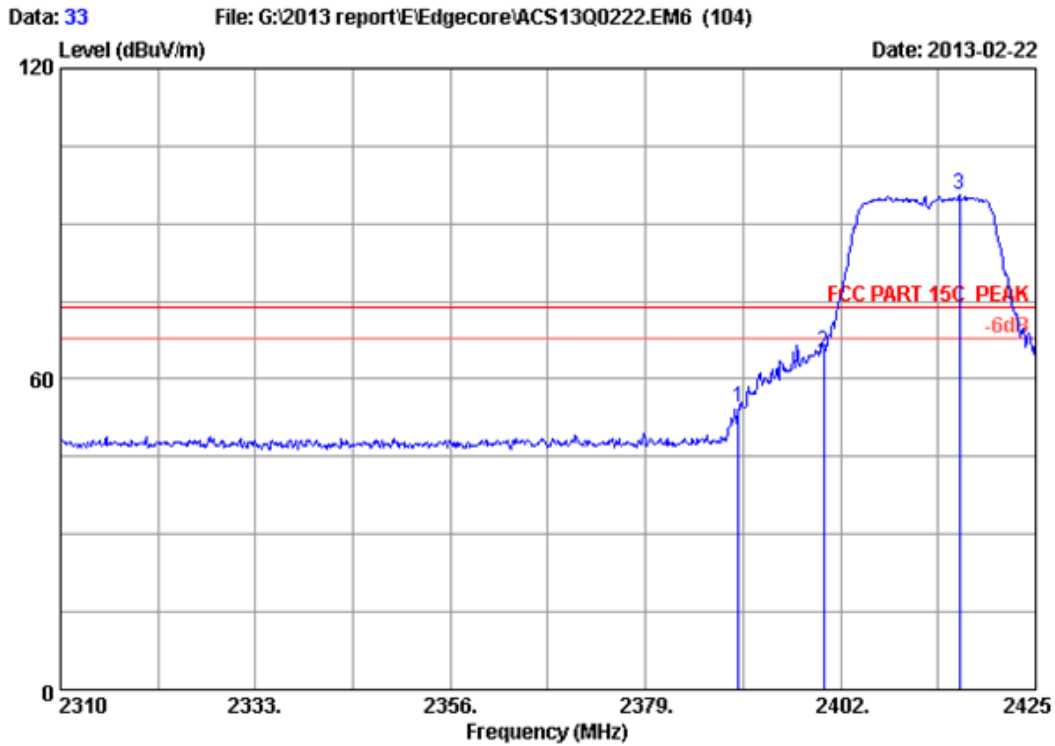


Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	50.51	50.04	54.00	3.96	Average
2	2400.000	27.96	6.01	34.44	64.66	64.19	54.00	-10.19	Average
3	2416.605	27.98	6.03	34.44	97.23	96.80	54.00	-42.80	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.

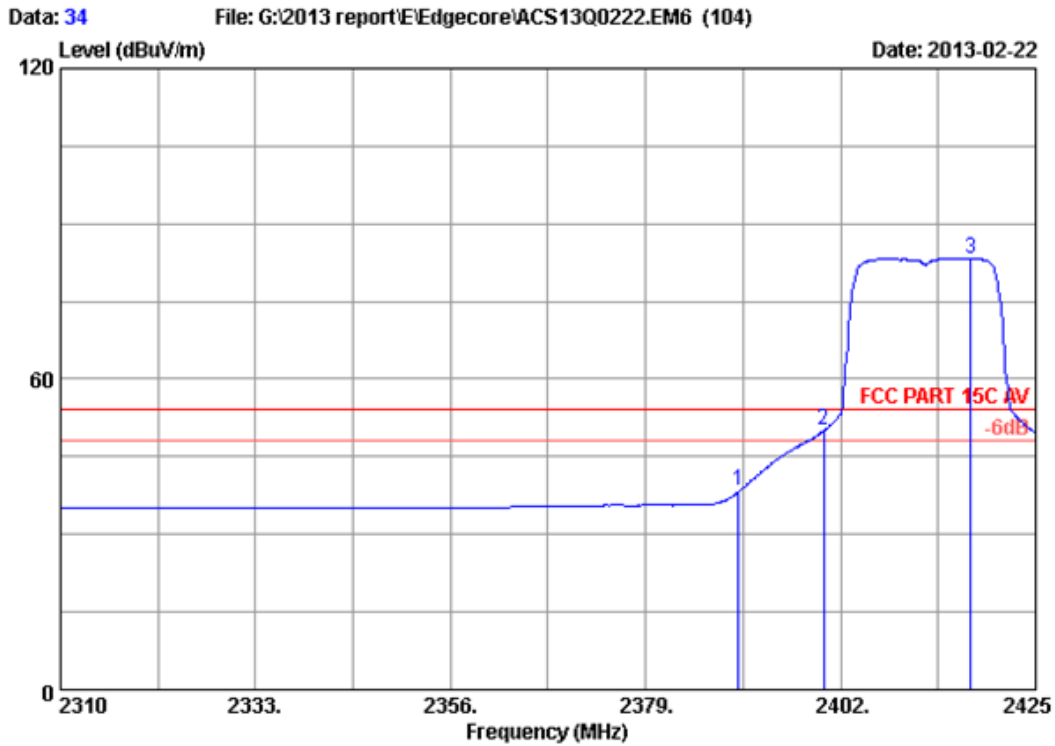


Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	54.83	54.36	74.00	19.64	Peak
2	2400.000	27.96	6.01	34.44	65.59	65.12	74.00	8.88	Peak
3	2416.030	27.98	6.03	34.44	96.13	95.70	74.00	-21.70	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.

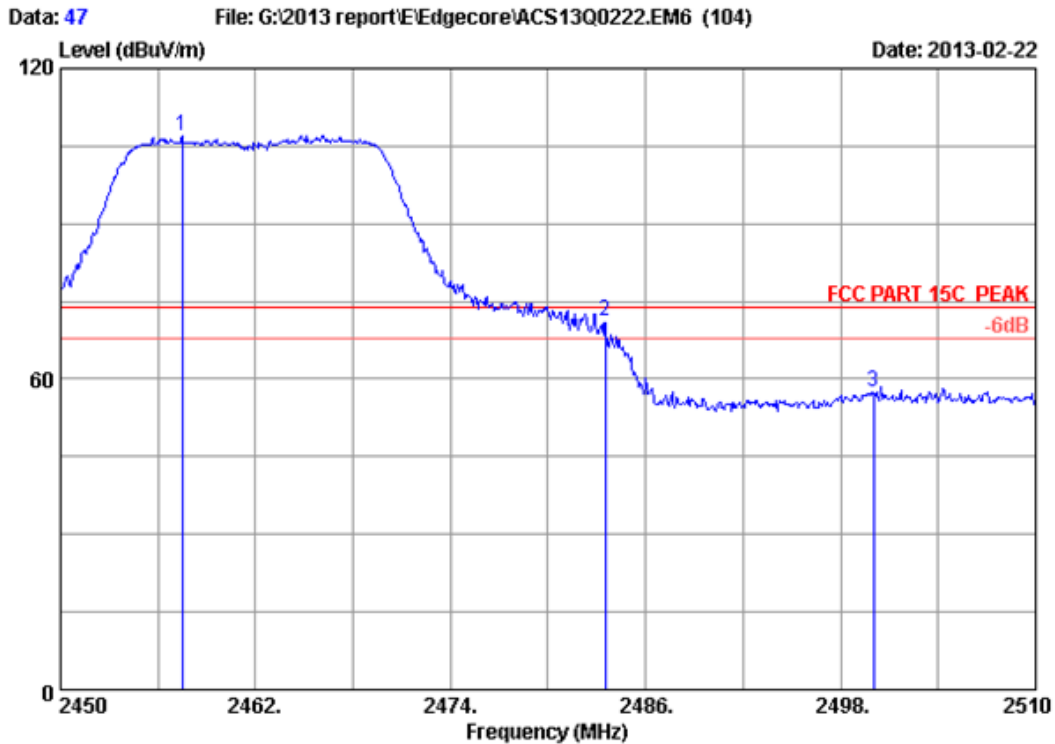


Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2390.000	27.96	6.01	34.44	38.81	38.34	54.00	15.66	Average	
2 2400.000	27.96	6.01	34.44	50.59	50.12	54.00	3.88	Average	
3 2417.295	27.98	6.03	34.44	83.77	83.34	54.00	-29.34	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.

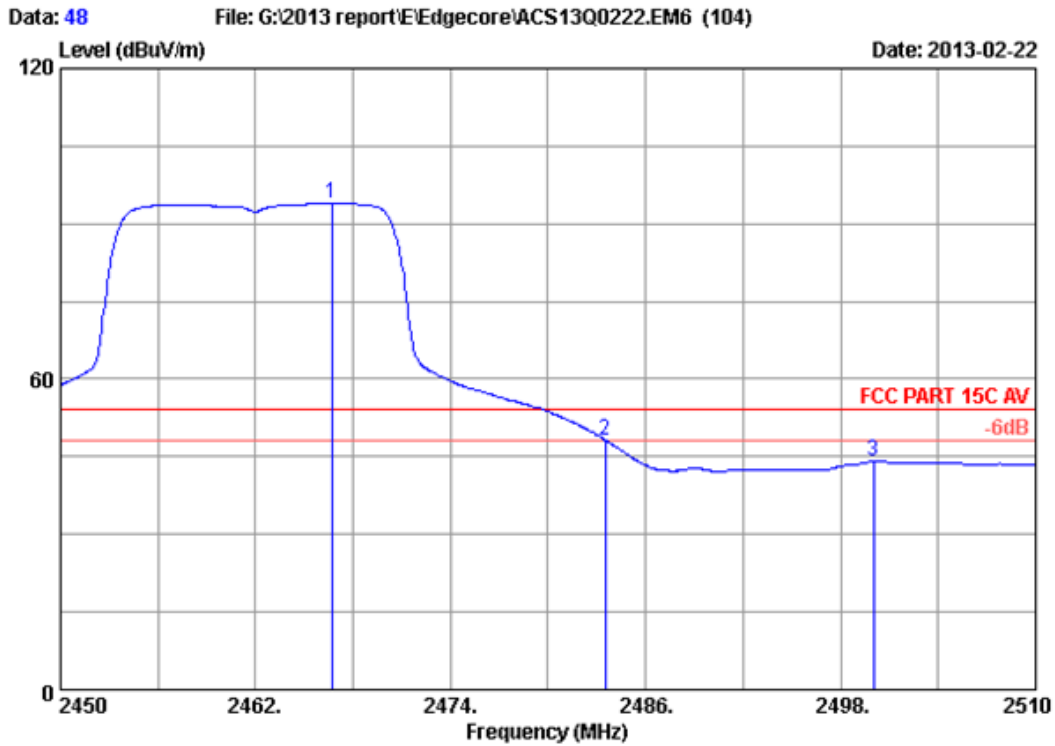


Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2457.500	28.05	6.12	34.44	107.24	106.97	74.00	-32.97	Peak
2	2483.500	28.08	6.15	34.45	71.35	71.13	74.00	2.87	Peak
3	2500.000	28.10	6.18	34.45	57.57	57.40	74.00	16.60	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.

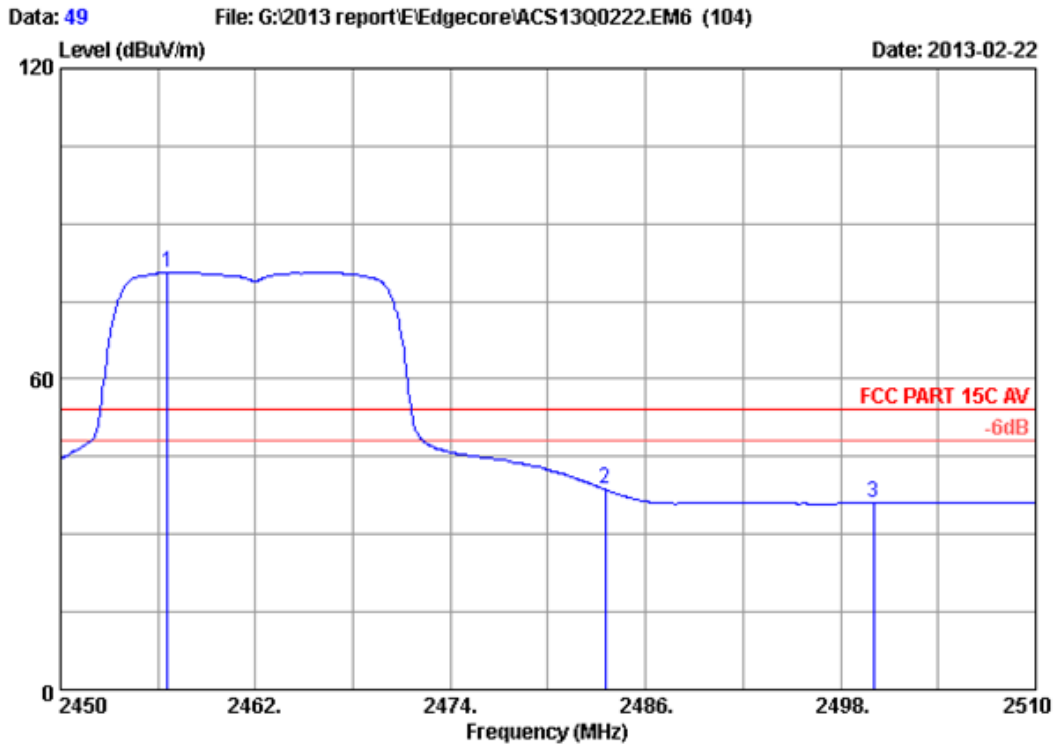


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2466.680	28.05	6.12	34.45	94.23	93.95	54.00	-39.95	Average
2	2483.500	28.08	6.15	34.45	48.48	48.26	54.00	5.74	Average
3	2500.000	28.10	6.18	34.45	44.23	44.06	54.00	9.94	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.

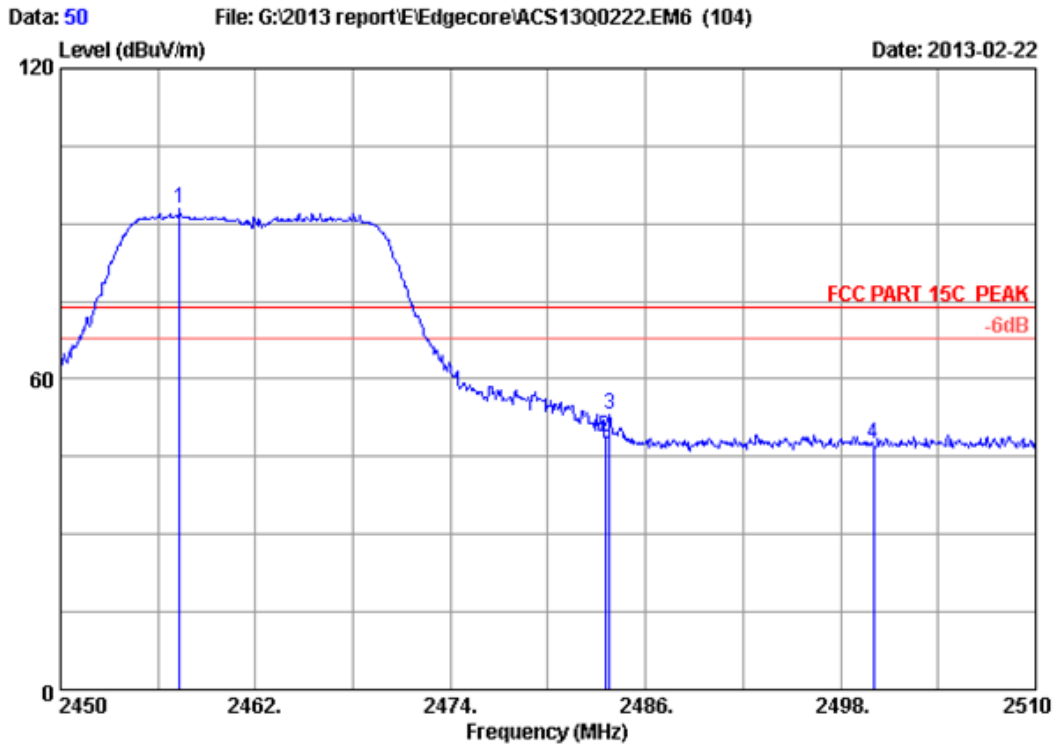


Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2456.600	28.05	6.12	34.44	80.89	80.62	54.00	-26.62	Average
2	2483.500	28.08	6.15	34.45	38.95	38.73	54.00	15.27	Average
3	2500.000	28.10	6.18	34.45	36.29	36.12	54.00	17.88	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.

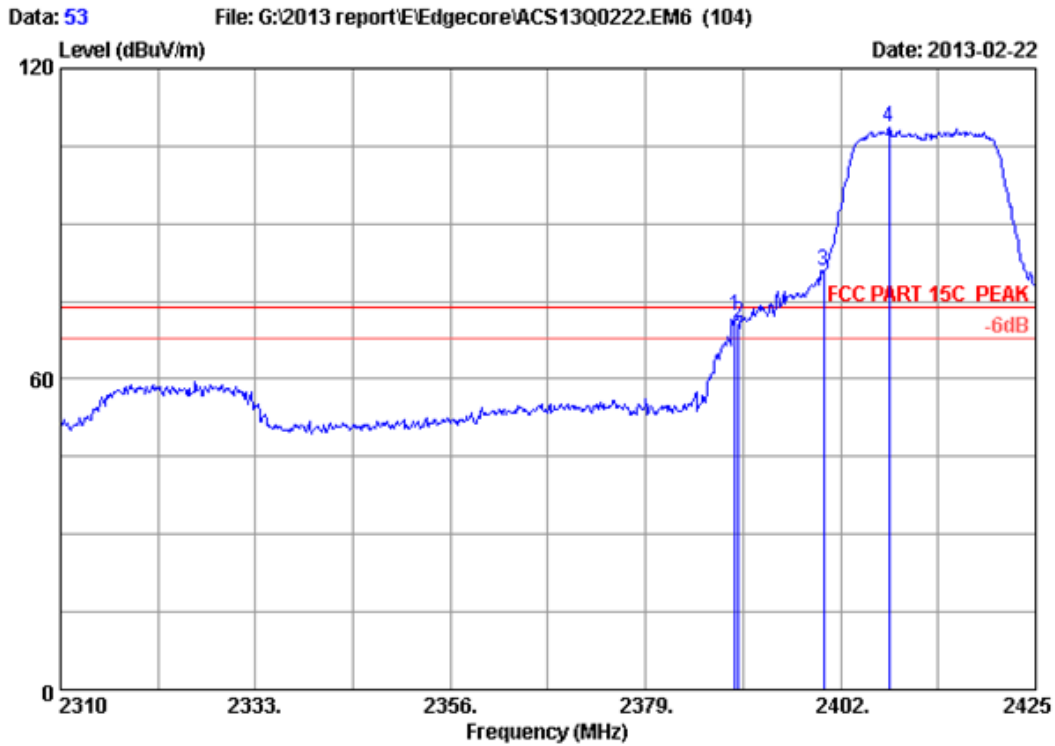


Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2457.320	28.05	6.12	34.44	93.25	92.98	74.00	-18.98	Peak
2	2483.500	28.08	6.15	34.45	48.90	48.68	74.00	25.32	Peak
3	2483.780	28.08	6.15	34.45	53.24	53.02	74.00	20.98	Peak
4	2500.000	28.10	6.18	34.45	47.73	47.56	74.00	26.44	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.

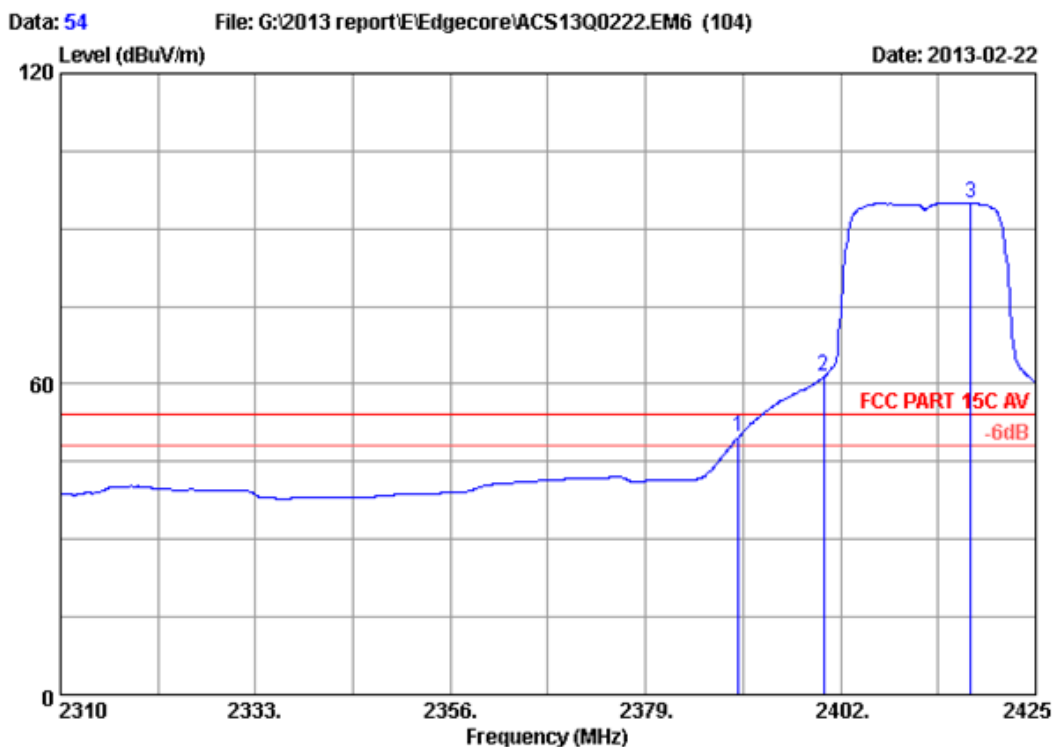


Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : SMCWBRI4S-N5
 :

	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	27.96	6.01	34.44	72.51	72.04	74.00	1.96	Peak
2	2390.000	27.96	6.01	34.44	71.37	70.90	74.00	3.10	Peak
3	2400.000	27.96	6.01	34.44	81.43	80.96	74.00	-6.96	Peak
4	2407.750	27.98	6.03	34.44	109.01	108.58	74.00	-34.58	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.

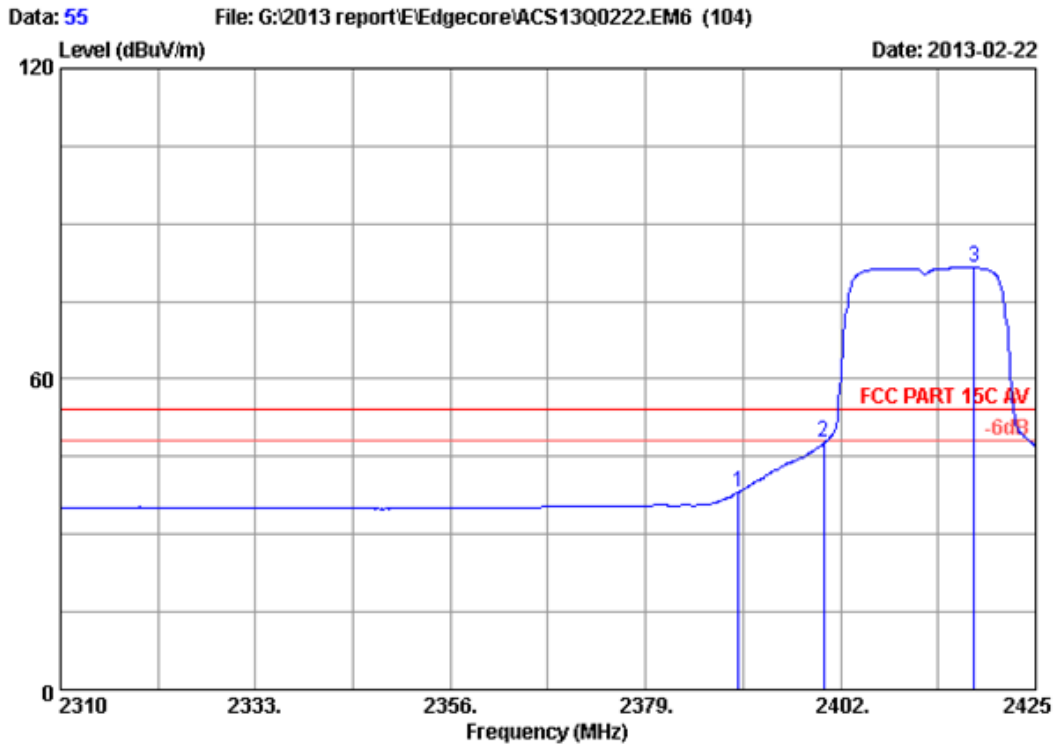


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	50.28	49.81	54.00	4.19	Average
2	2400.000	27.96	6.01	34.44	61.89	61.42	54.00	-7.42	Average
3	2417.295	27.98	6.03	34.44	95.50	95.07	54.00	-41.07	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.

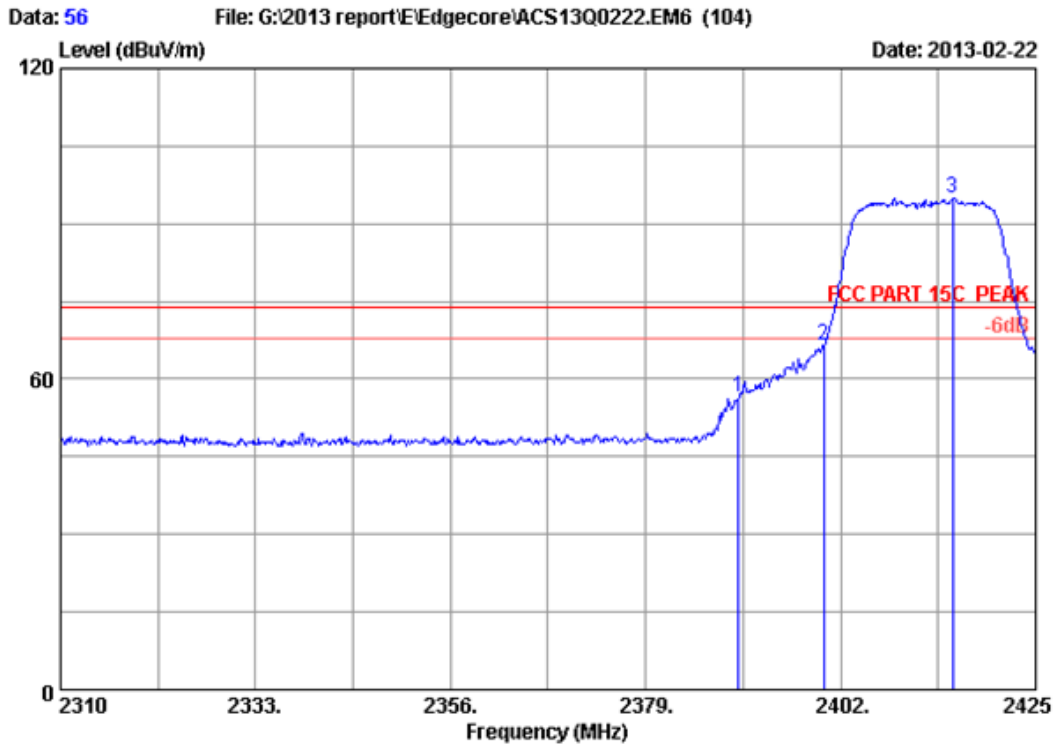


Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	38.71	38.24	54.00	15.76	Average
2	2400.000	27.96	6.01	34.44	48.27	47.80	54.00	6.20	Average
3	2417.755	27.98	6.03	34.44	82.04	81.61	54.00	-27.61	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.

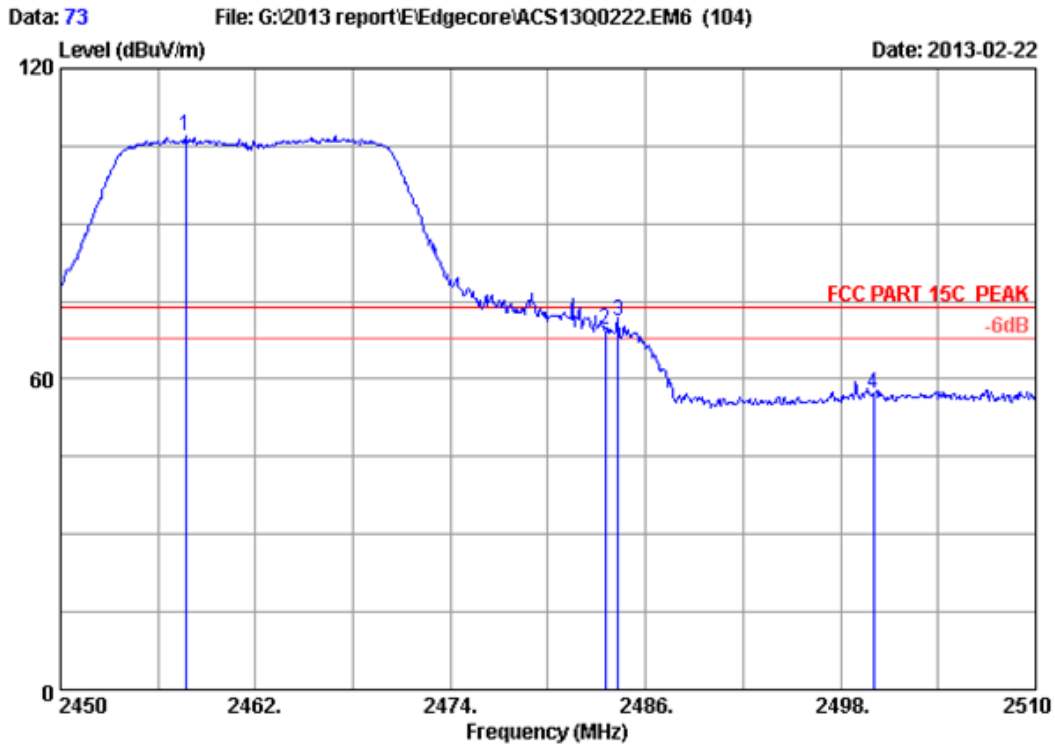


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	56.99	56.52	74.00	17.48	Peak
2	2400.000	27.96	6.01	34.44	66.97	66.50	74.00	7.50	Peak
3	2415.225	27.98	6.03	34.44	95.39	94.96	74.00	-20.96	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.

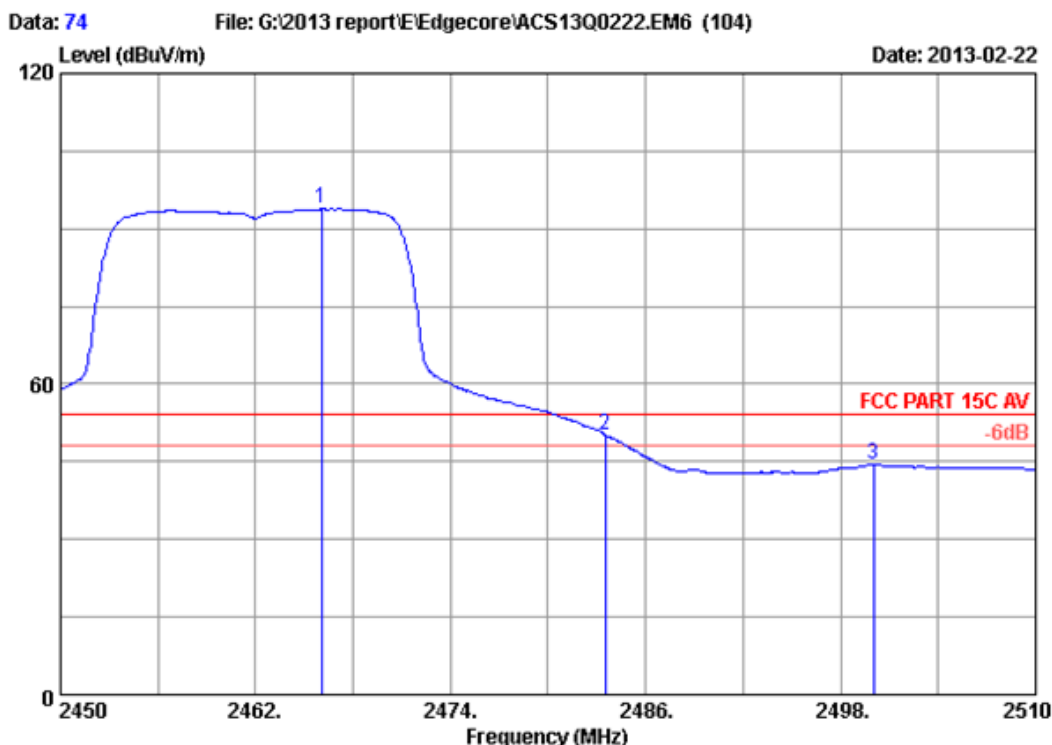


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2457.680	28.05	6.12	34.44	107.30	107.03	74.00	-33.03	Peak	
2 2483.500	28.08	6.15	34.45	69.79	69.57	74.00	4.43	Peak	
3 2484.320	28.08	6.15	34.45	71.54	71.32	74.00	2.68	Peak	
4 2500.000	28.10	6.18	34.45	57.45	57.28	74.00	16.72	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.

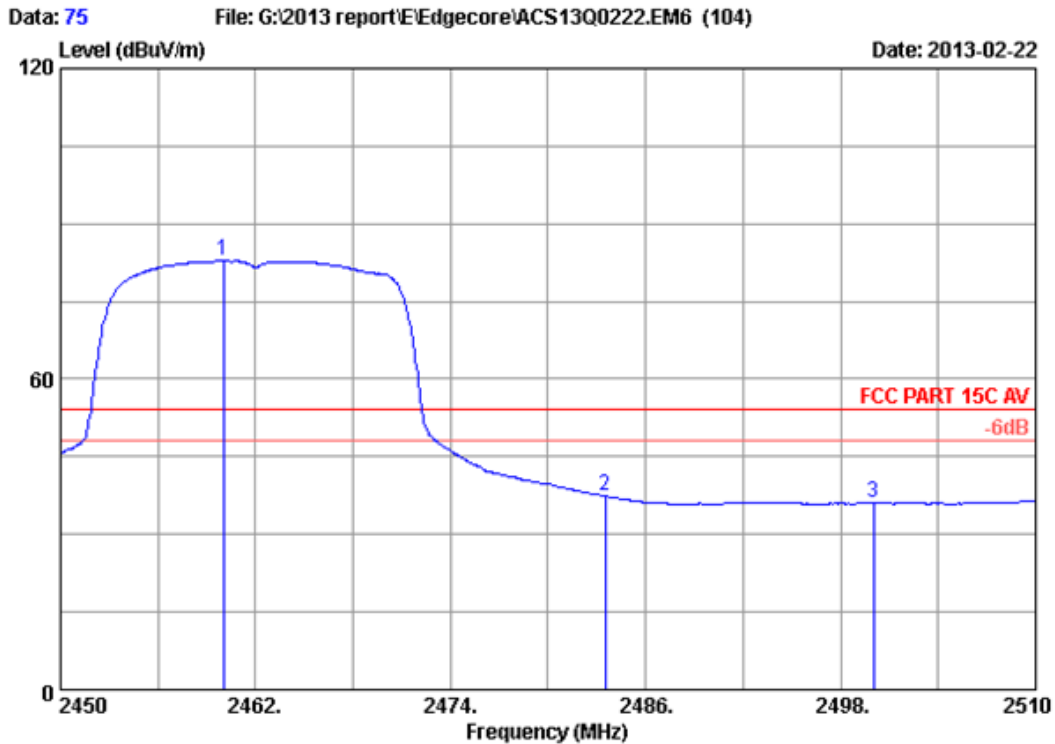


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2466.080	28.05	6.12	34.45	94.11	93.83	54.00	-39.83	Average
2	2483.500	28.08	6.15	34.45	50.52	50.30	54.00	3.70	Average
3	2500.000	28.10	6.18	34.45	44.70	44.53	54.00	9.47	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.

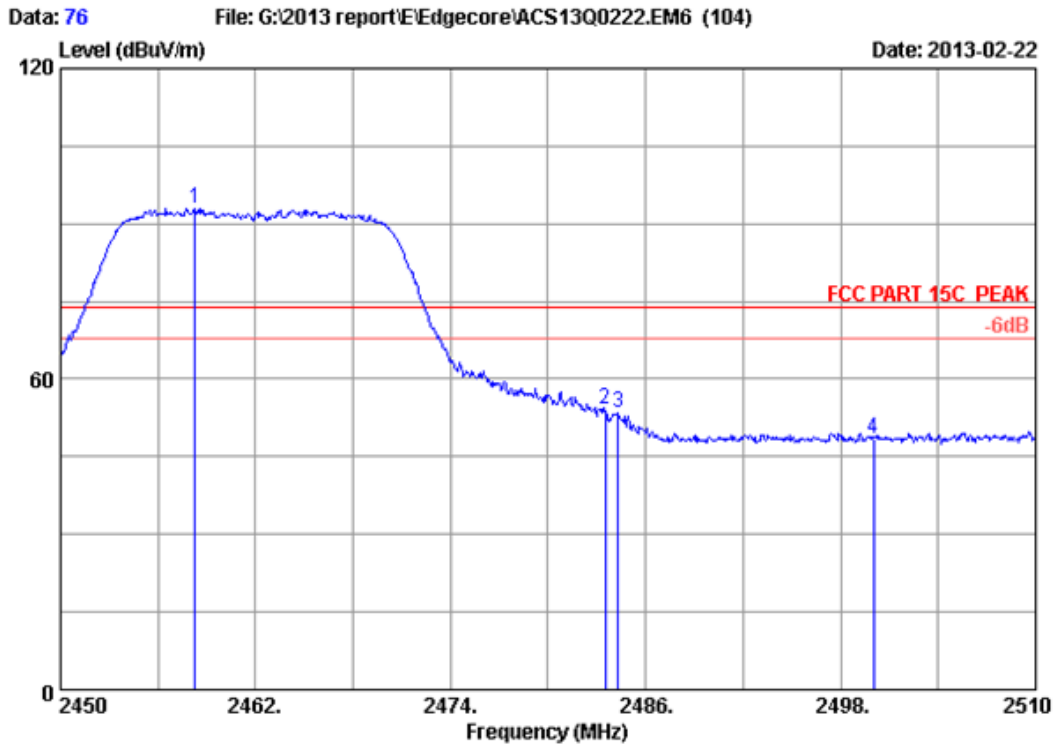


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 2460.020	28.05	6.12	34.44	83.15	82.88	54.00	-28.88	Average	
2 2483.500	28.08	6.15	34.45	37.66	37.44	54.00	16.56	Average	
3 2500.000	28.10	6.18	34.45	36.17	36.00	54.00	18.00	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.

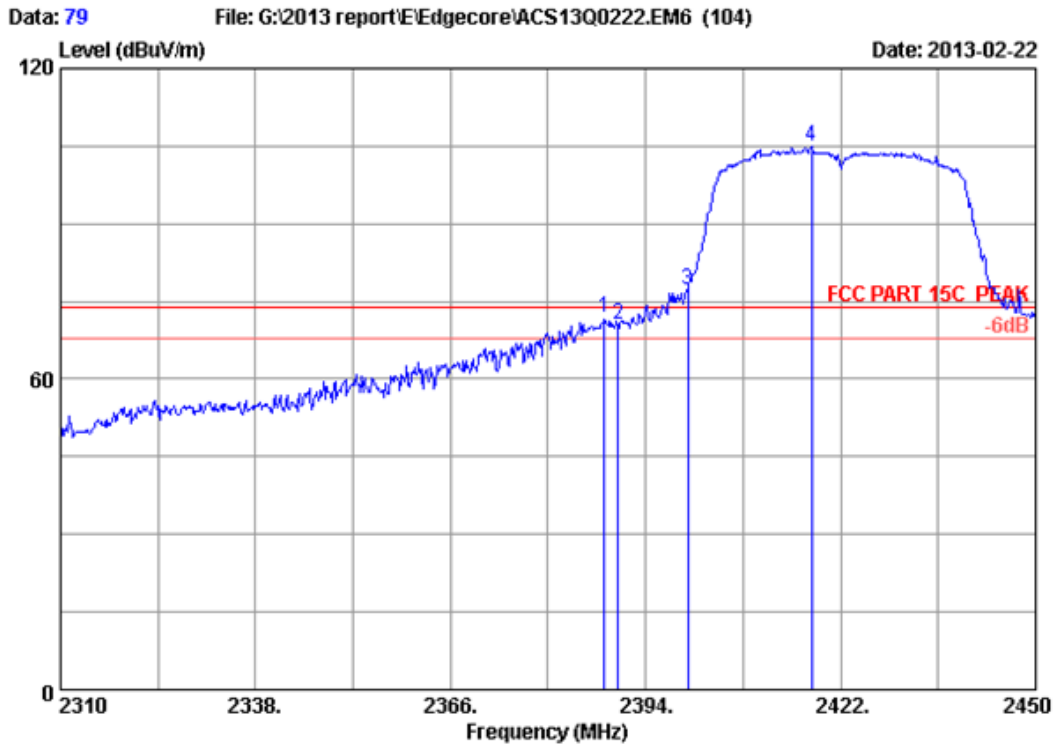


Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	28.05	6.12	34.44	93.18	92.91	74.00	-18.91	Peak
2	2483.500	28.08	6.15	34.45	54.37	54.15	74.00	19.85	Peak
3	2484.320	28.08	6.15	34.45	53.83	53.61	74.00	20.39	Peak
4	2500.000	28.10	6.18	34.45	48.74	48.57	74.00	25.43	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.

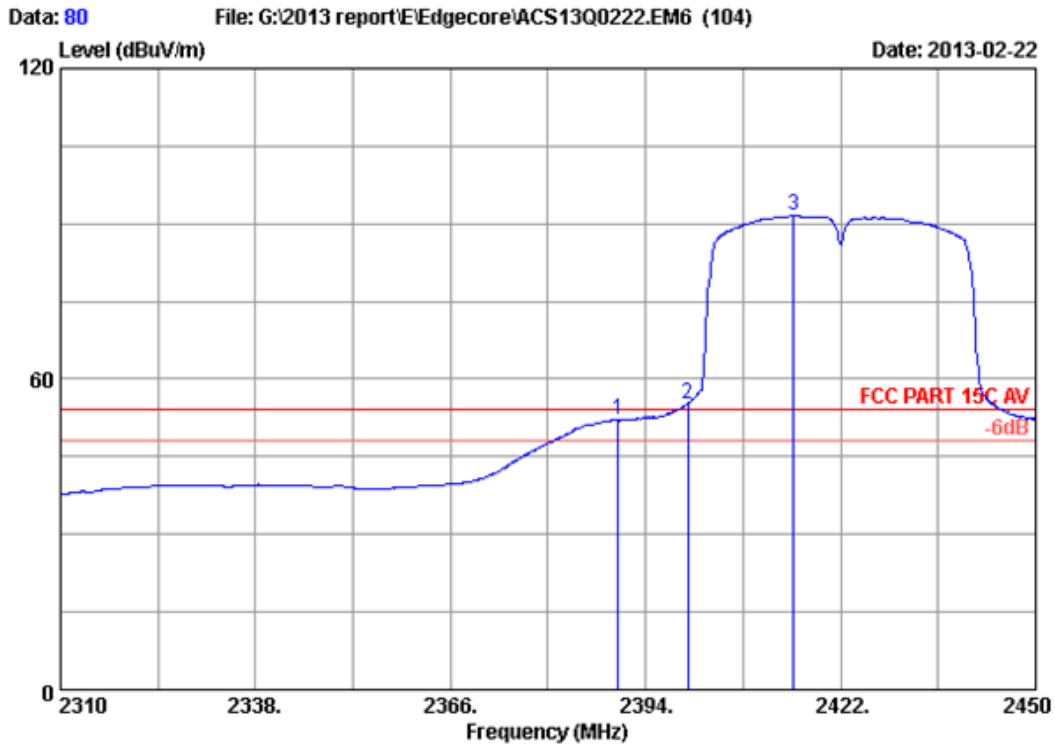


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2388.120	27.96	6.01	34.44	72.36	71.89	74.00	2.11	Peak
2	2390.000	27.96	6.01	34.44	70.88	70.41	74.00	3.59	Peak
3	2400.000	27.96	6.01	34.44	77.85	77.38	74.00	-3.38	Peak
4	2417.800	27.98	6.03	34.44	105.55	105.12	74.00	-31.12	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.

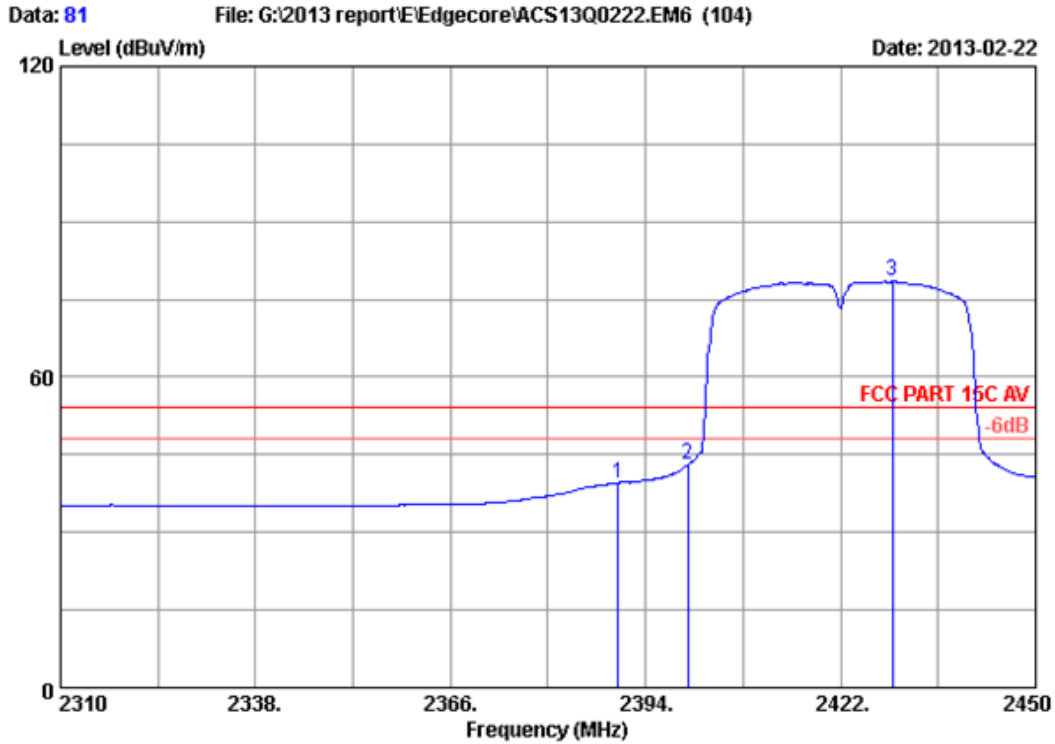


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	52.49	52.02	54.00	1.98	Average
2	2400.000	27.96	6.01	34.44	55.70	55.23	54.00	-1.23	Average
3	2415.280	27.98	6.03	34.44	91.93	91.50	54.00	-37.50	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.

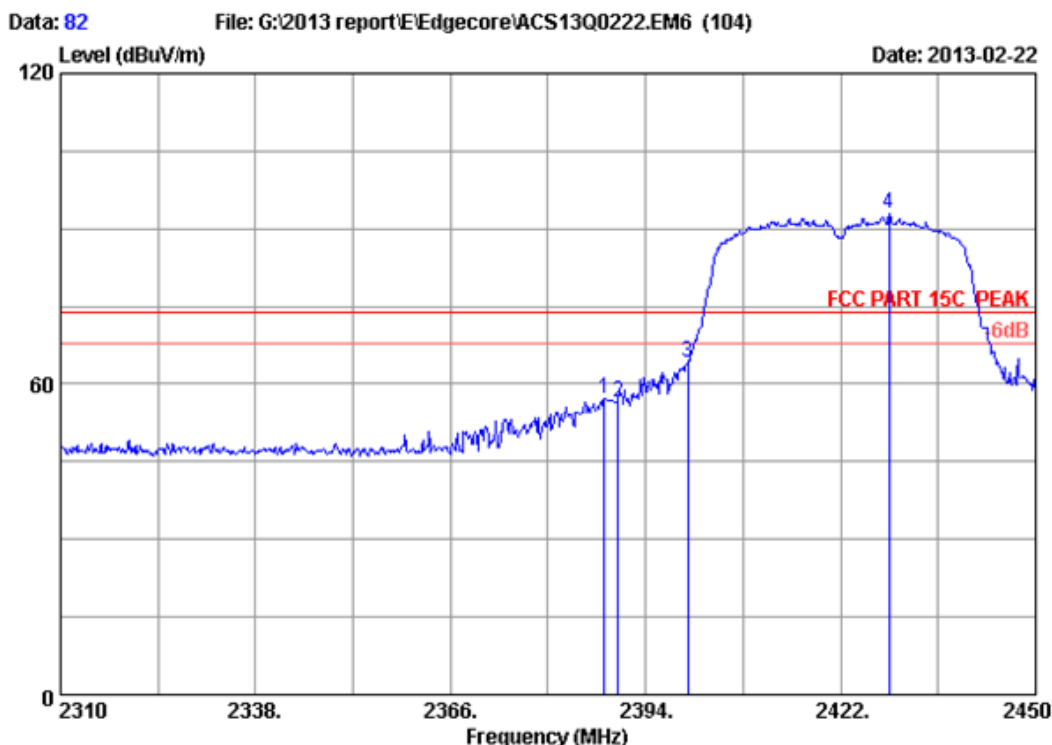


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	27.96	6.01	34.44	40.04	39.57	54.00	14.43	Average
2	2400.000	27.96	6.01	34.44	43.51	43.04	54.00	10.96	Average
3	2429.420	28.00	6.06	34.44	78.82	78.44	54.00	-24.44	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.

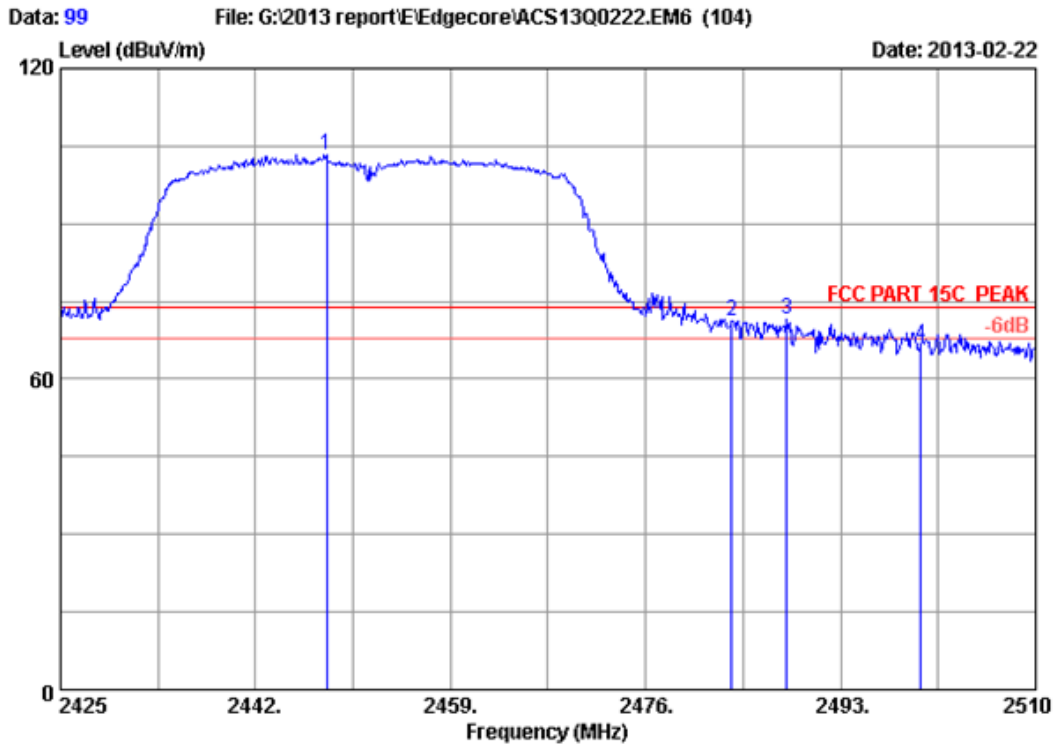


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2388.120	27.96	6.01	34.44	57.64	57.17	74.00	16.83	Peak
2	2390.000	27.96	6.01	34.44	57.06	56.59	74.00	17.41	Peak
3	2400.000	27.96	6.01	34.44	64.73	64.26	74.00	9.74	Peak
4	2429.000	28.00	6.06	34.44	93.18	92.80	74.00	-18.80	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.

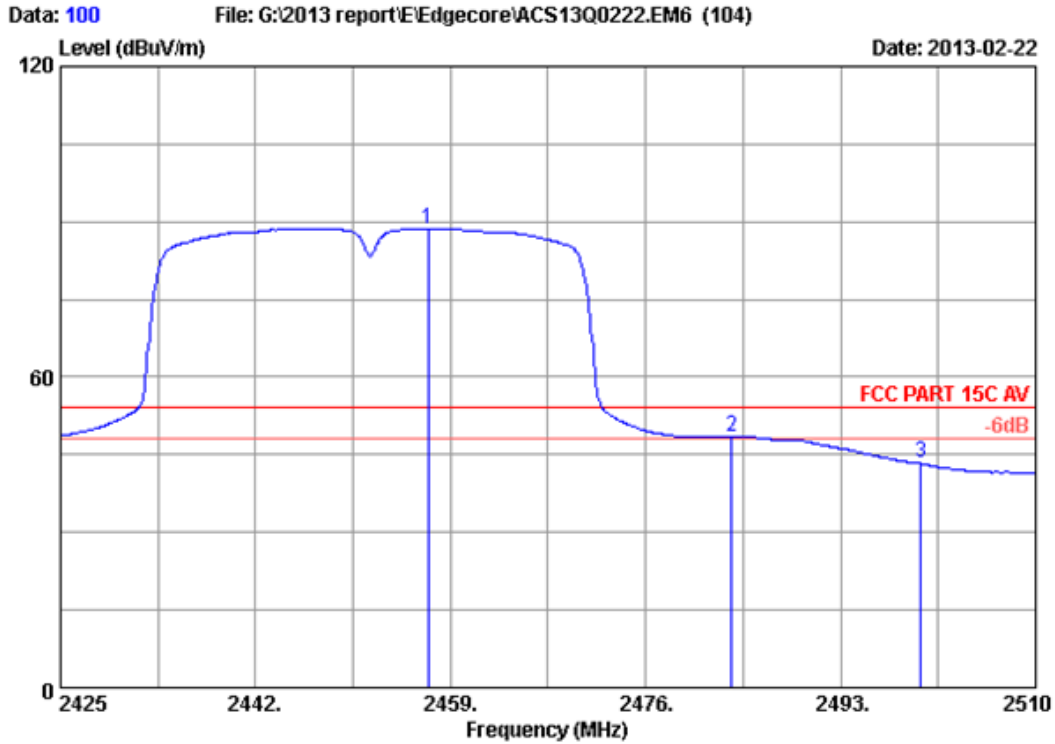


Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2448.205	28.03	6.09	34.44	103.75	103.43	74.00	-29.43	Peak
2	2483.500	28.08	6.15	34.45	71.48	71.26	74.00	2.74	Peak
3	2488.325	28.10	6.15	34.45	71.59	71.39	74.00	2.61	Peak
4	2500.000	28.10	6.18	34.45	66.81	66.64	74.00	7.36	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.

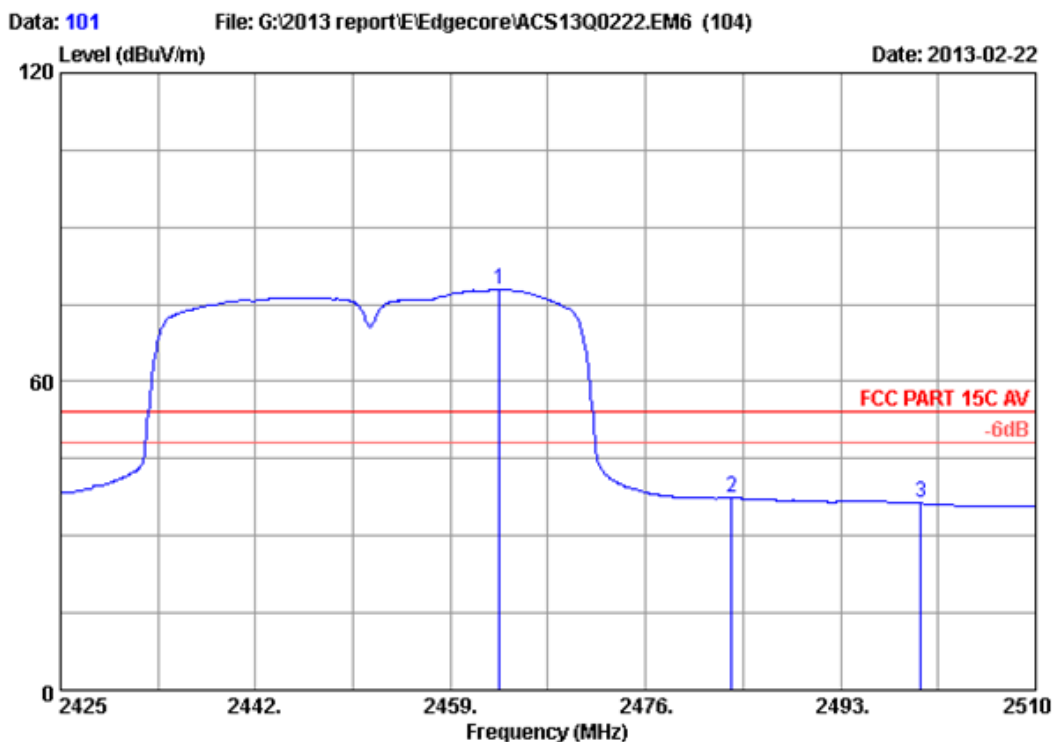


Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2457.045	28.05	6.12	34.44	88.92	88.65	54.00	-34.65	Average
2	2483.500	28.08	6.15	34.45	48.71	48.49	54.00	5.51	Average
3	2500.000	28.10	6.18	34.45	43.48	43.31	54.00	10.69	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.

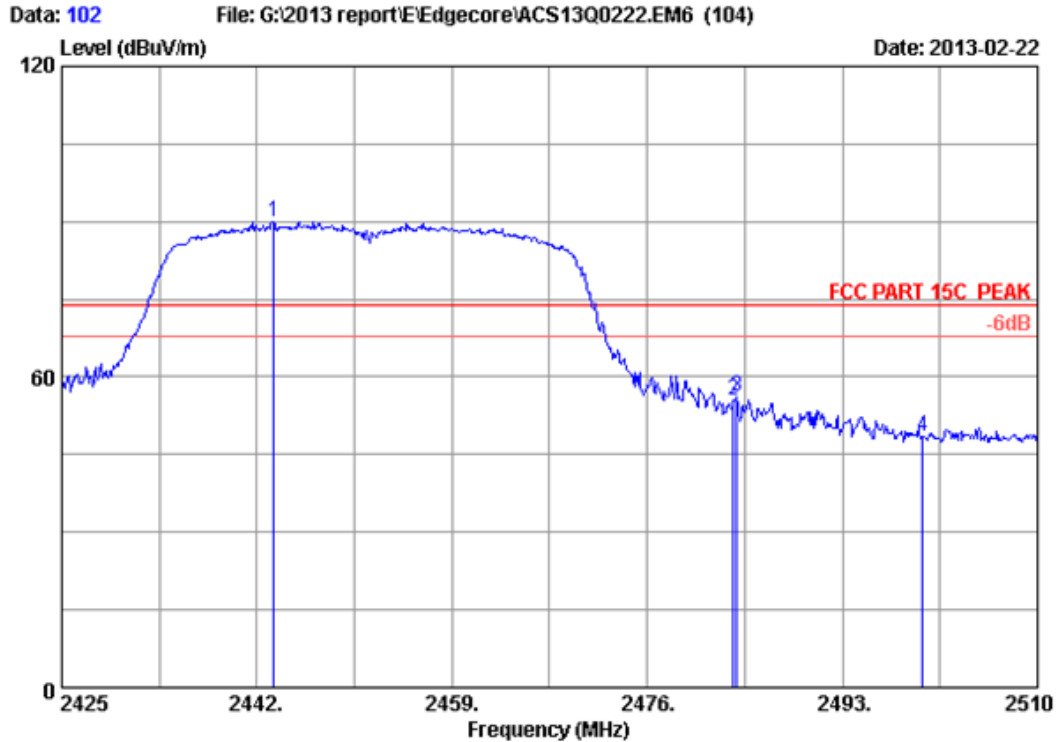


Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2463.250	28.05	6.12	34.45	78.19	77.91	54.00	-23.91	Average
2	2483.500	28.08	6.15	34.45	37.51	37.29	54.00	16.71	Average
3	2500.000	28.10	6.18	34.45	36.47	36.30	54.00	17.70	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. : 102
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 150 Mbps 4-Port Wireless Broadband Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : SMCWBR14S-N5
 :

	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	2443.445	28.03	6.09	34.44	90.40	90.08	74.00	-16.08	Peak
2	2483.500	28.08	6.15	34.45	55.56	55.34	74.00	18.66	Peak
3	2483.820	28.08	6.15	34.45	56.52	56.30	74.00	17.70	Peak
4	2500.000	28.10	6.18	34.45	48.76	48.59	74.00	25.41	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.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 12	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 300 kHz 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: 150 Mbps 4-Port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date: 2013-02-21	Pressure: 101.2±1.0kpa	Humidity: 52.2±3.0 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 23.7±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	10.273	>500
	CH6	10.277	>500
	CH11	10.246	>500
11g	CH1	16.373	>500
	CH6	16.357	>500
	CH11	16.388	>500
11n HT20	CH1	17.514	>500
	CH6	17.576	>500
	CH11	17.563	>500
11n HT40	CH1	35.286	>500
	CH4	34.577	>500
	CH7	35.627	>500
Conclusion : PASS			

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

Agilent
L

Ch Freq 2.412 GHz Trig Free

Occupied Bandwidth

Ref 21 dBm Atten 10 dB

#Peak

Log

10

dB/

Offst

21

dB

Center 2.412 00 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

13.8279 MHz x dB -6.00 dB

Transmit Freq Error 54.097 kHz

x dB Bandwidth 10.273 MHz

Copyright 2000-2005 Agilent Technologies

Trace

Trace 1 2 3

Clear Write

Max Hold

Min Hold

View

Blank

More 1 of 2

Test CH6: 2437MHz

Agilent
L

Ch Freq 2.437 GHz Trig Free

Occupied Bandwidth

Center 2.437000000 GHz

Ref 21 dBm Atten 10 dB

#Peak

Log

10

dB/

Offst

21

dB

Center 2.437 00 GHz Span 30 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 1 ms (601 pts)

Occupied Bandwidth Occ BW % Pwr 99.00 %

13.8102 MHz x dB -6.00 dB

Transmit Freq Error 21.585 kHz

x dB Bandwidth 10.277 MHz

File Operation Status, A:\SCREN422.GIF file saved

Trace

Trace 1 2 3

Clear Write

Max Hold

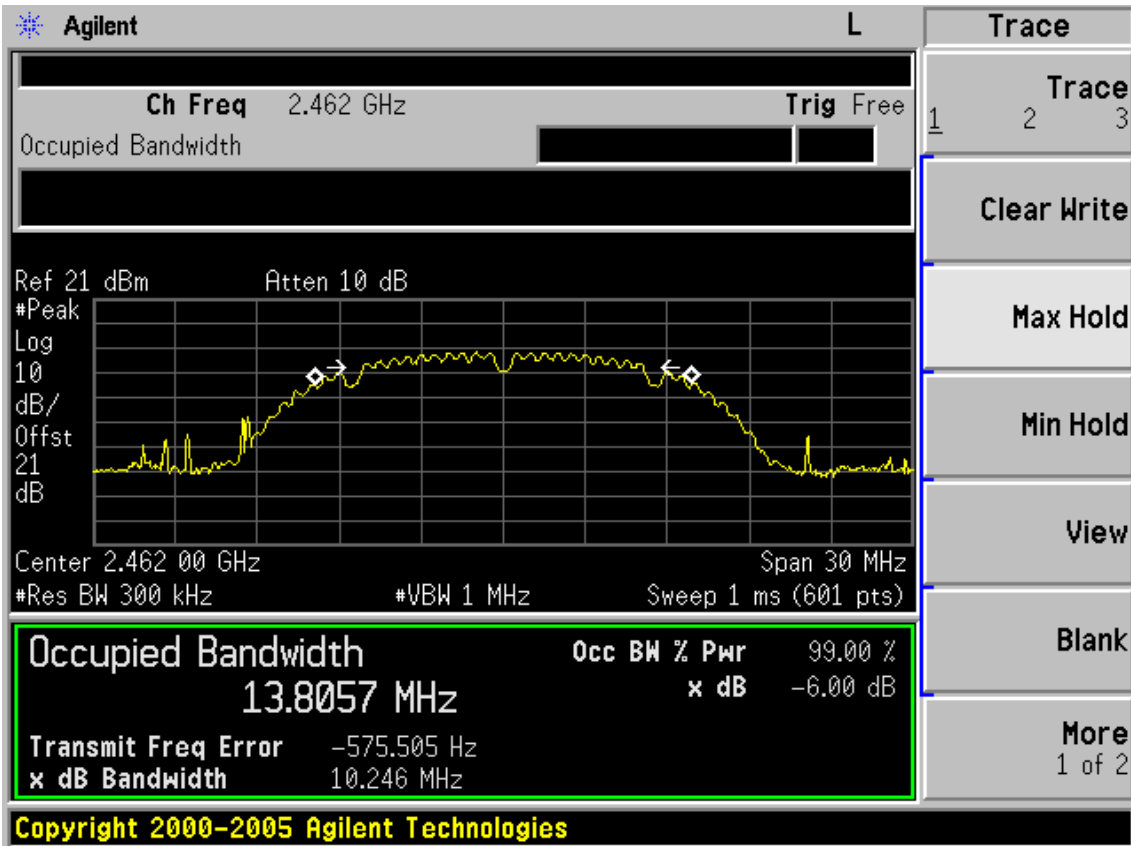
Min Hold

View

Blank

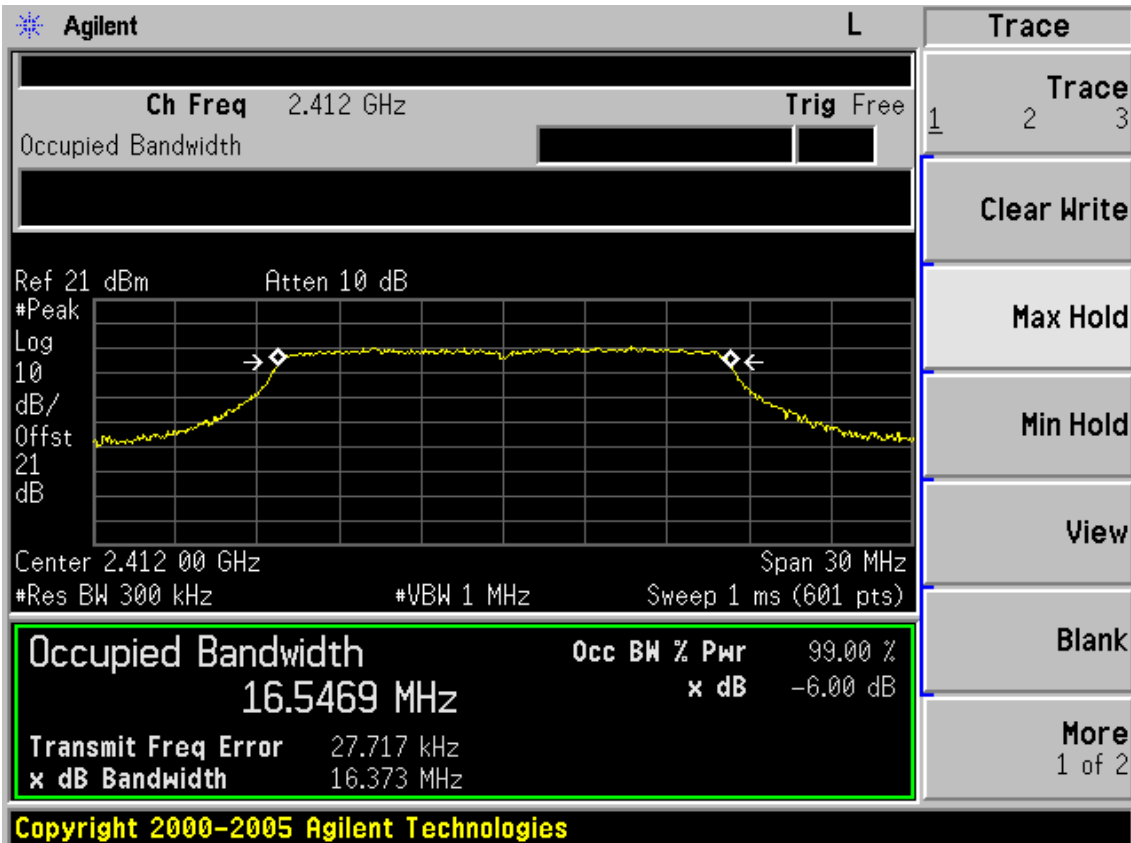
More 1 of 2

Test CH11: 2462MHz

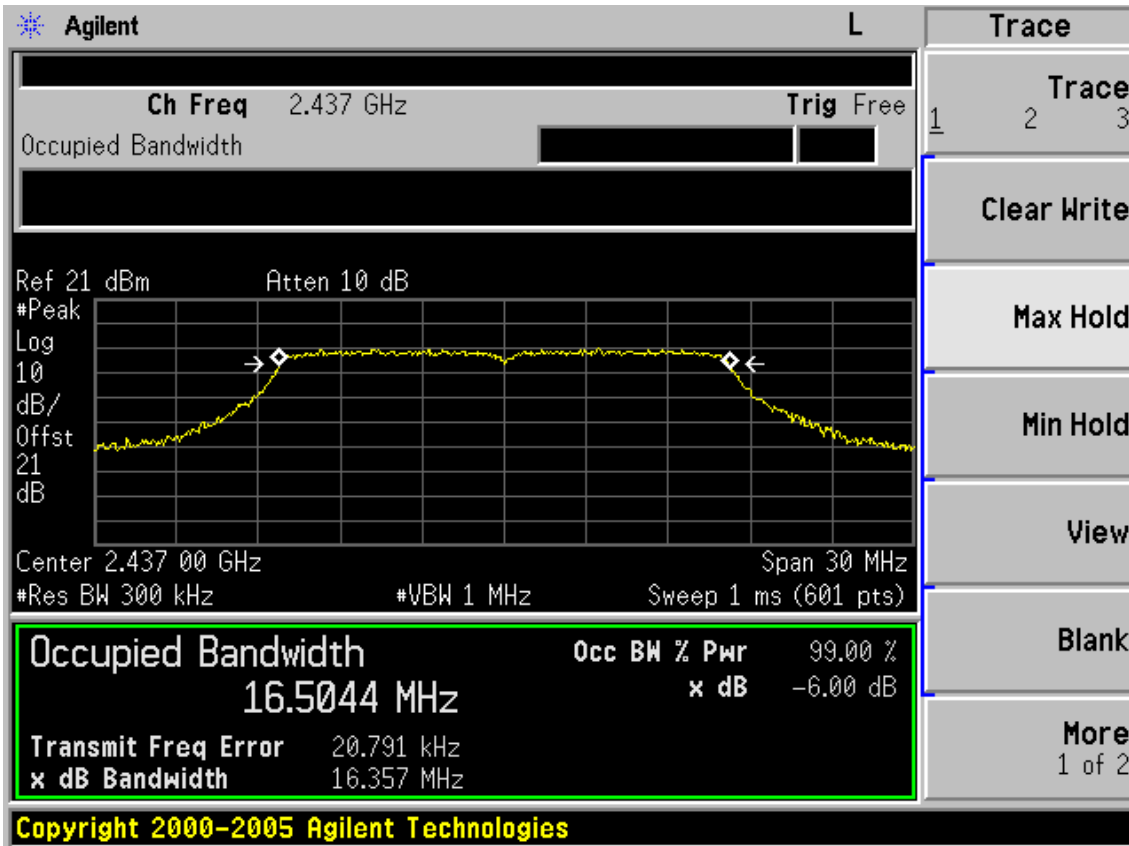


Test Mode: IEEE 802.11g TX

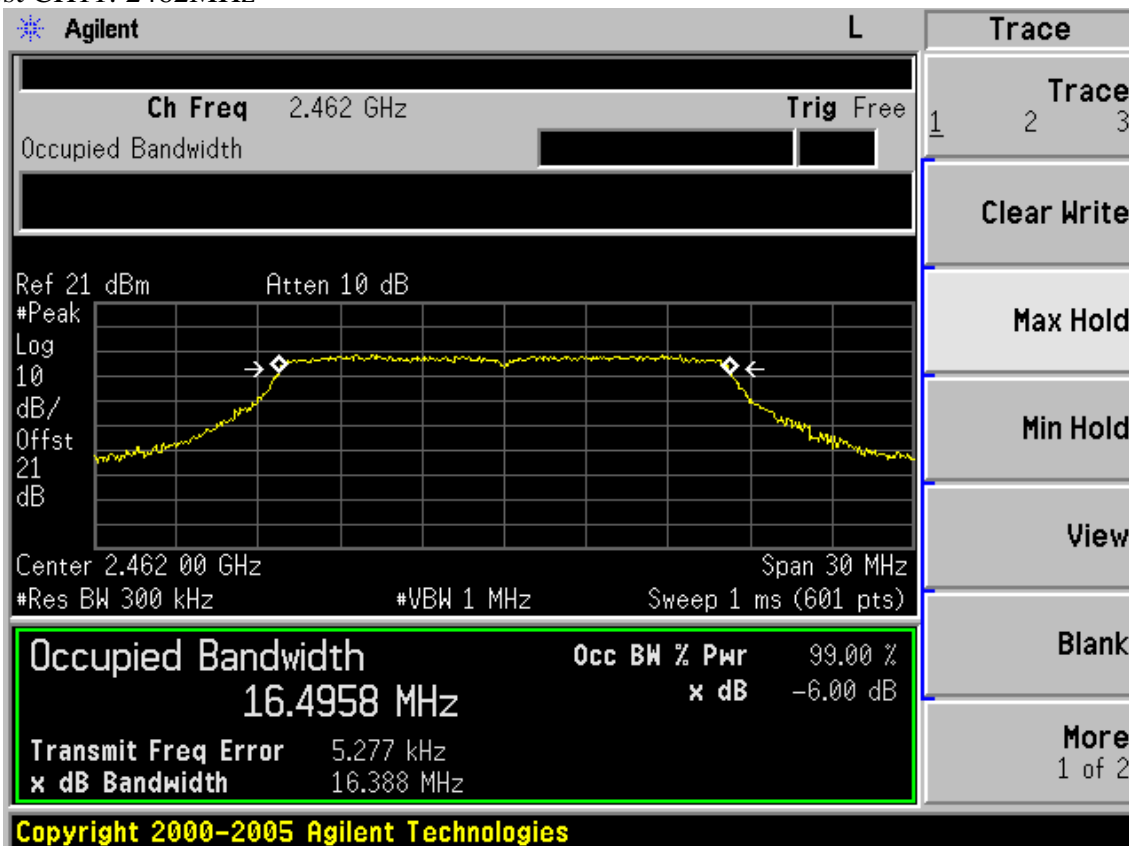
Test CH1: 2412MHz



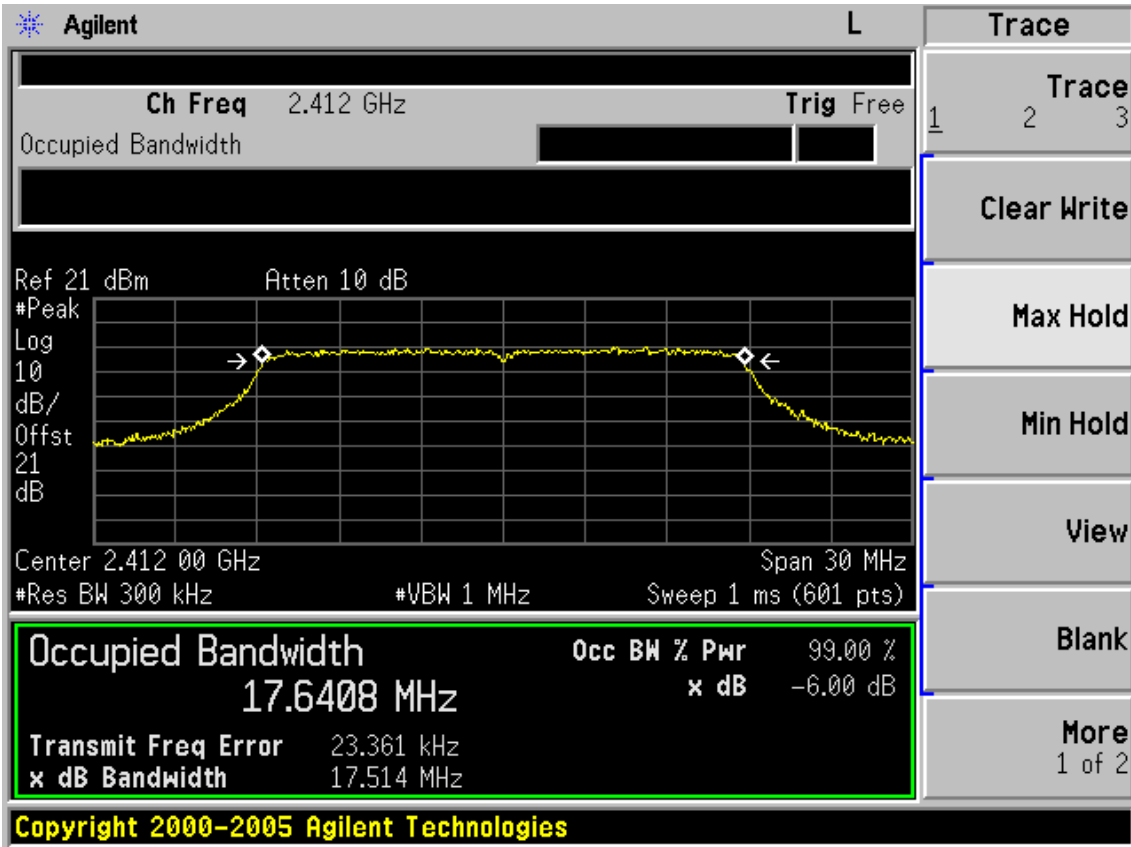
Test CH6: 2437MHz



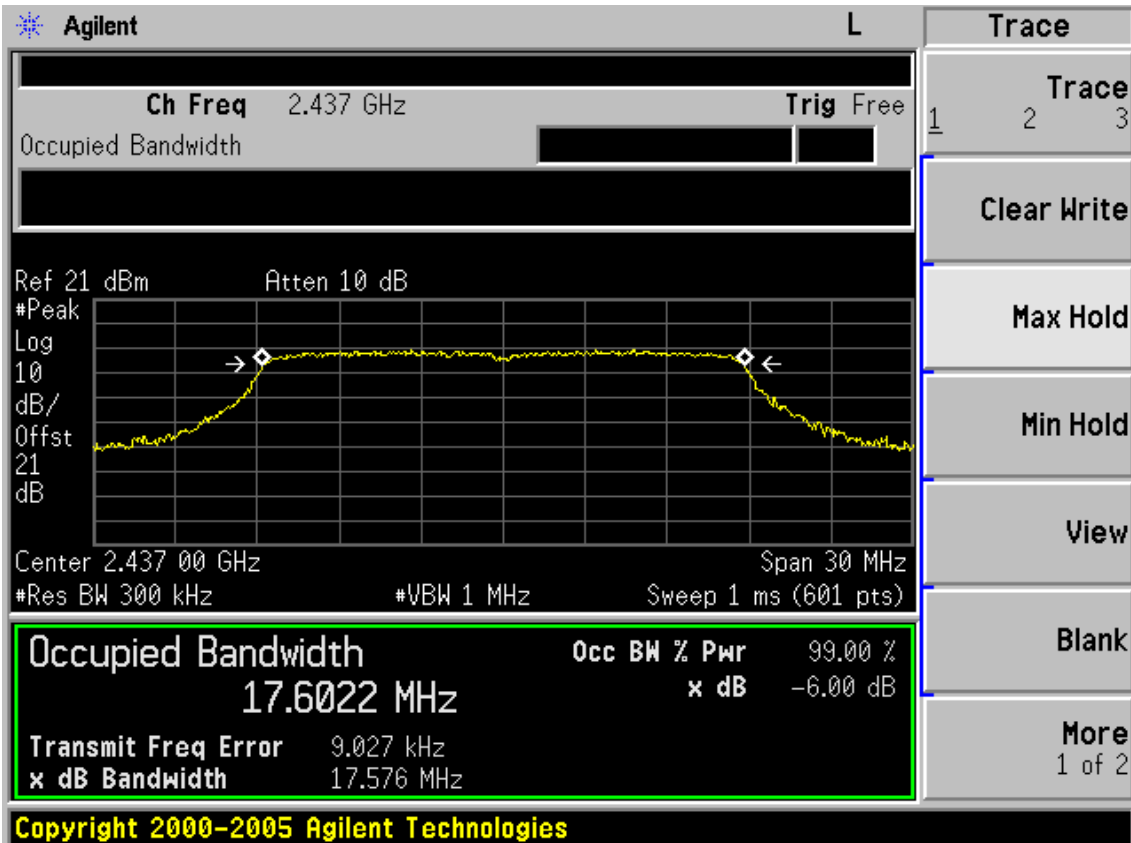
Test CH11: 2462MHz



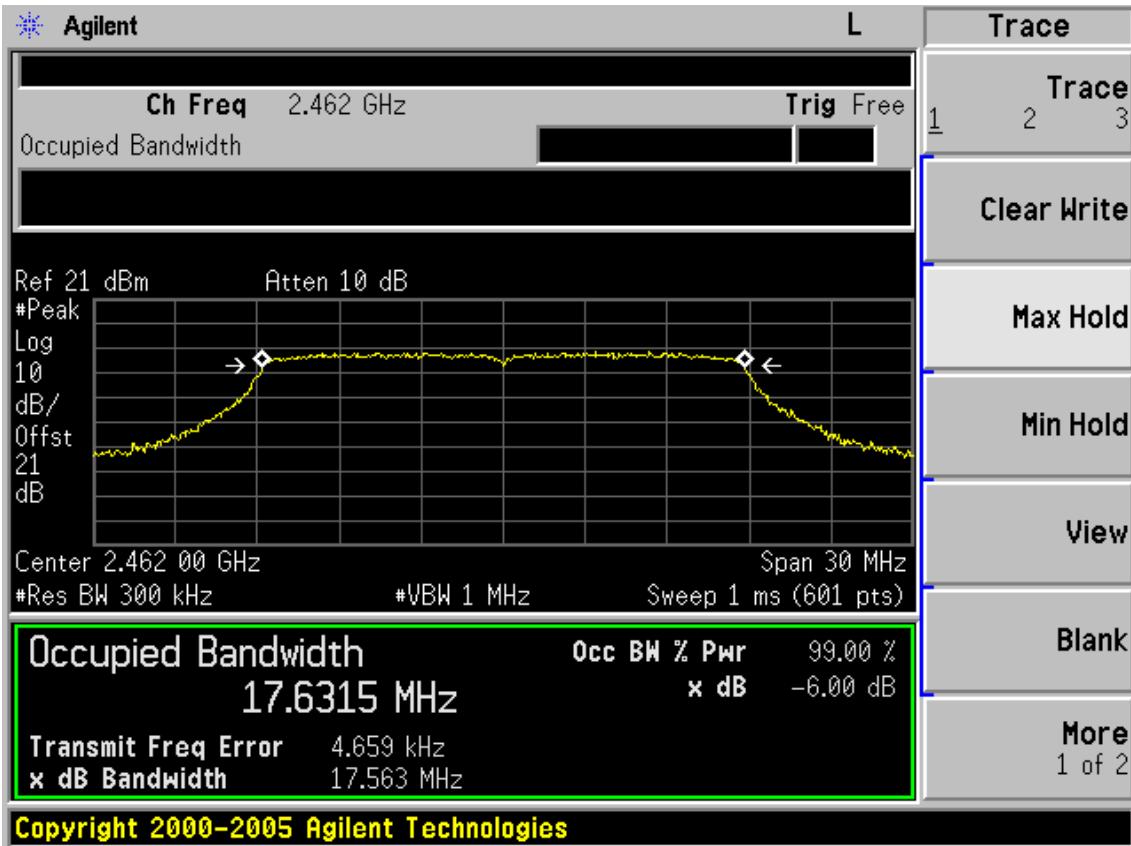
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

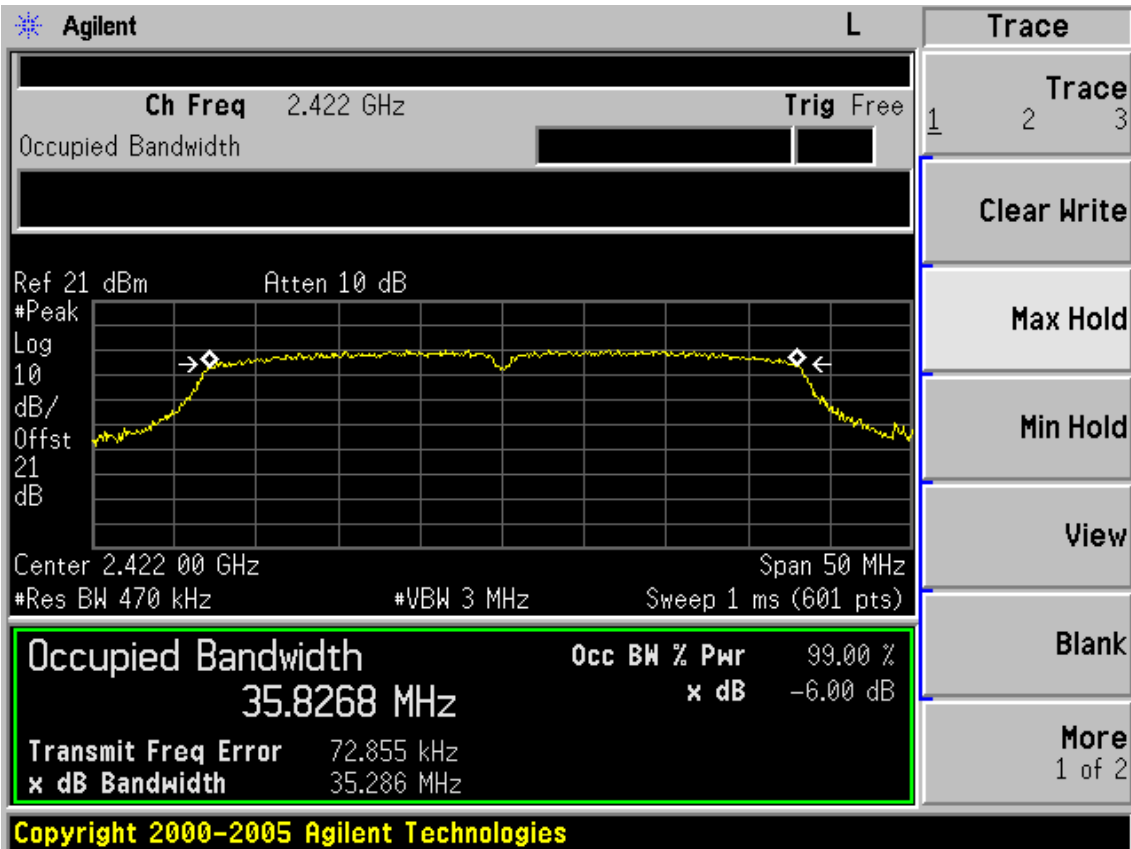


Test CH11: 2462MHz

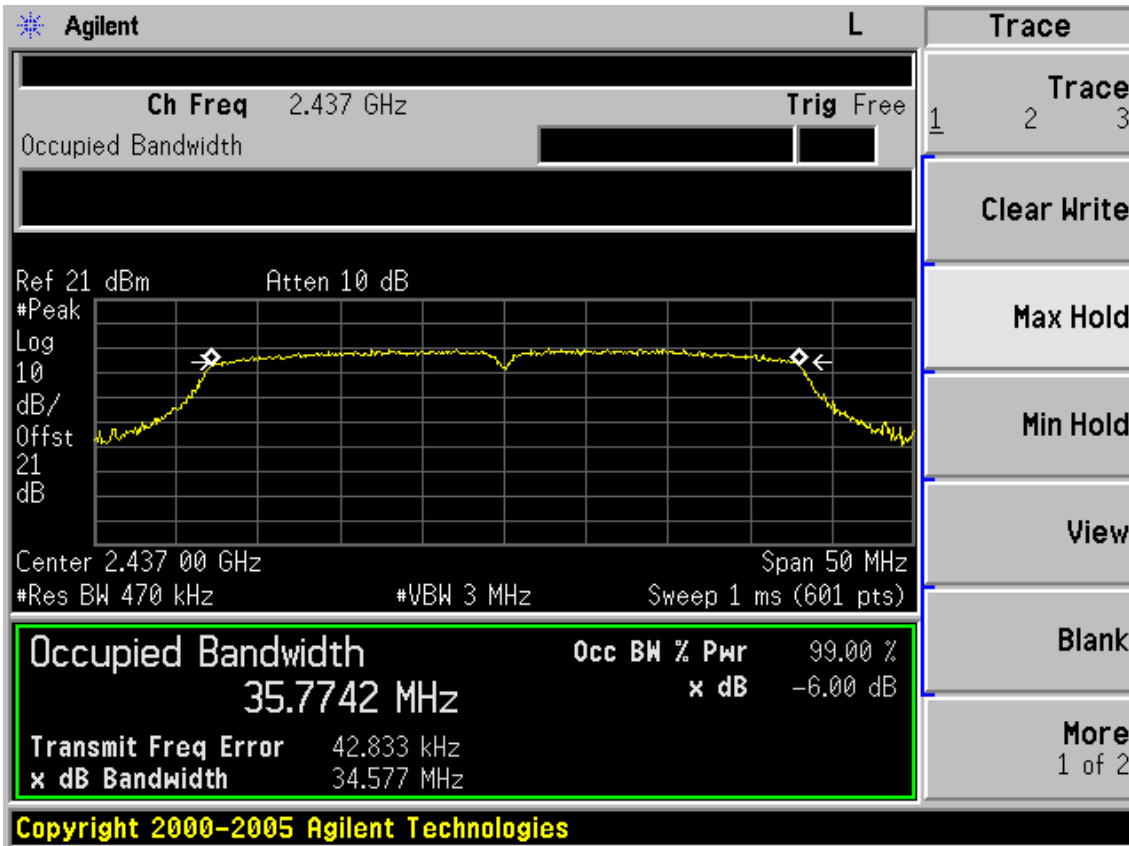


Test Mode: IEEE 802.11n HT40 TX

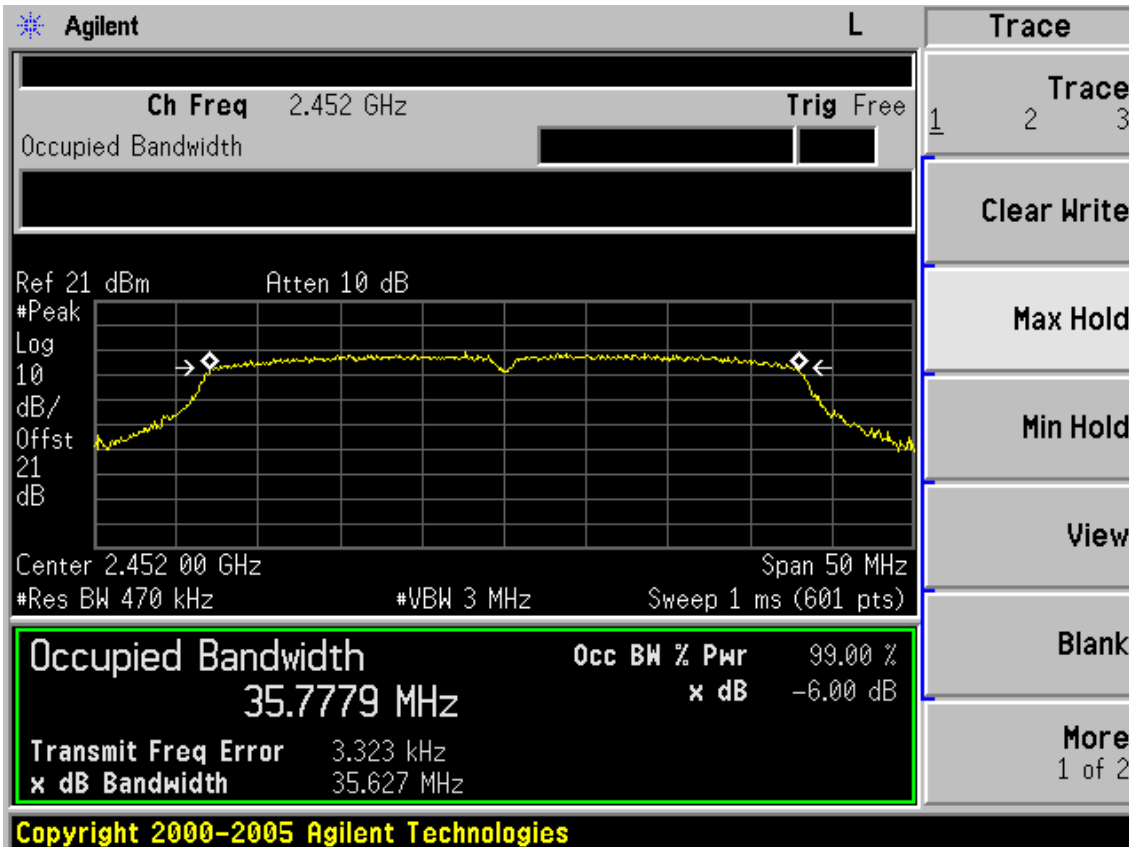
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 12	1Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 12	1Year

8.2. 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)

8.3. 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 Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

Peak output power =measured power+ 10log[(26dB bandwidth of emission)/(analyzer RBW)]

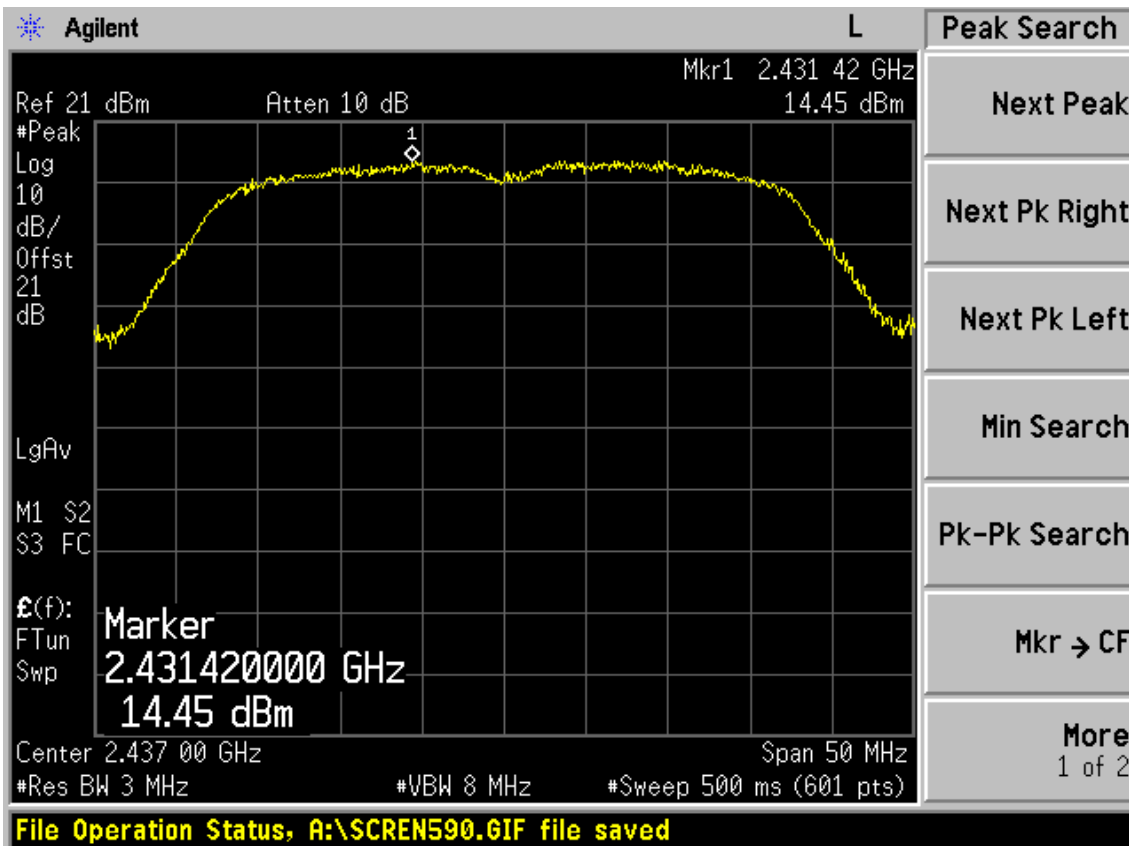
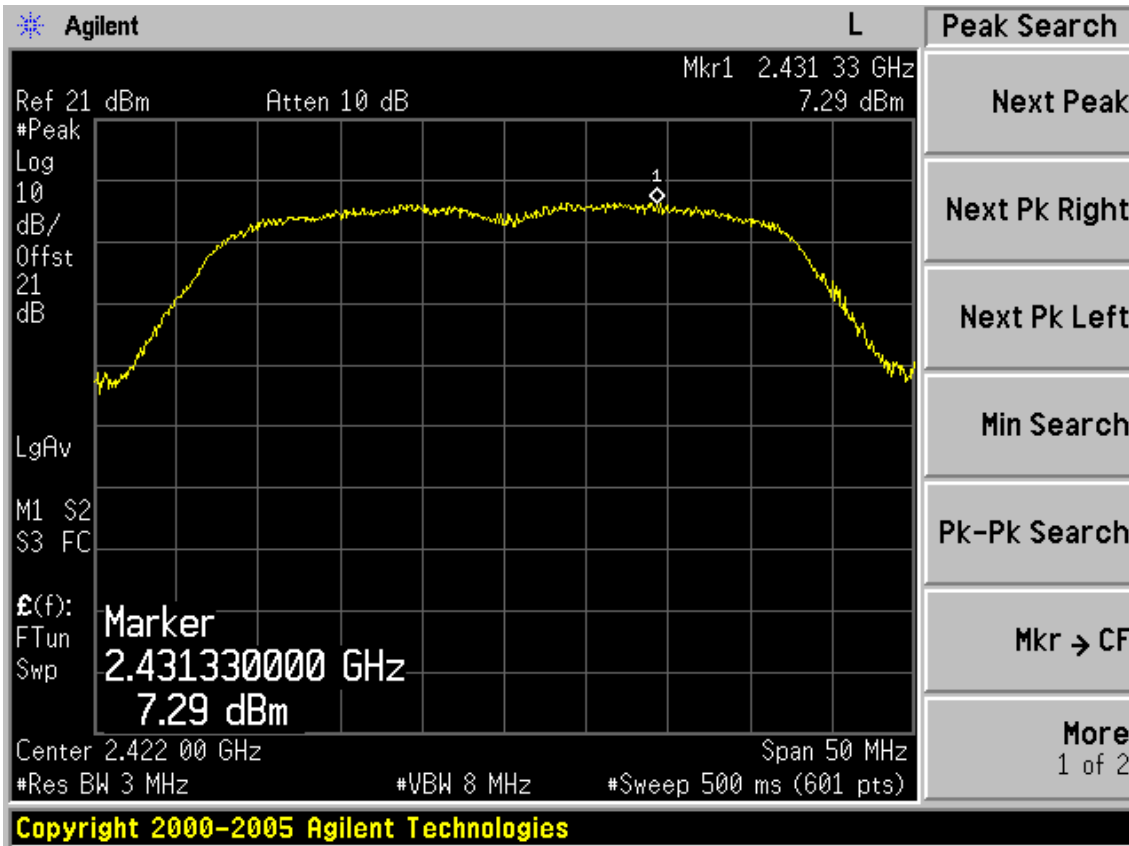
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

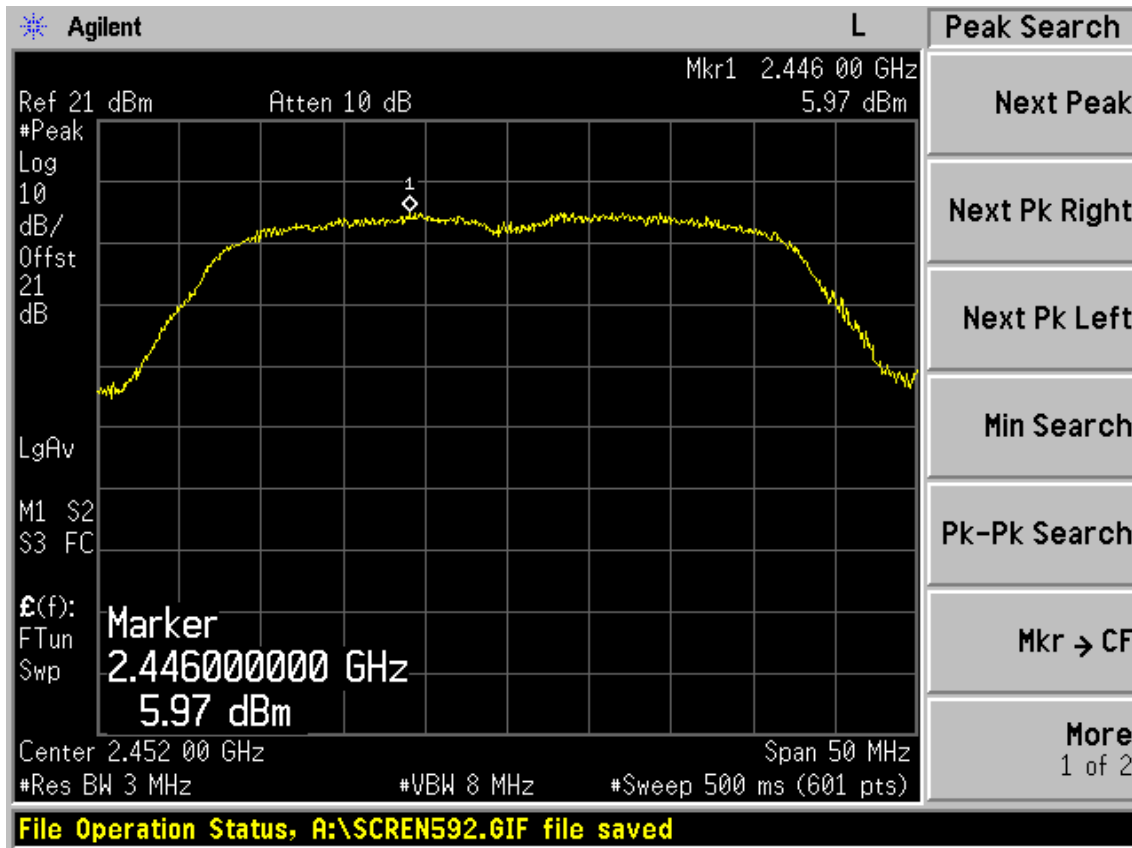
8.4. Test Results

EUT: 150 Mbps 4-Port Wireless Broadband Router			
M/N: SMCWBR14S-N5			
Test date: 2013-02-21	Pressure: 101.2±1.0kpa	Humidity: 52.7±3.0 %	
Tested by: Leo-Li	Test site: RF Site	Temperature : 23.1±0.6 °C	
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
11b	CH1	18.99	30
	CH6	19.49	30
	CH11	18.58	30
11g	CH1	20.07	30
	CH6	26.74	30
	CH11	18.86	30
11n HT20	CH3	18.92	30
	CH6	26.66	30
	CH9	18.22	30

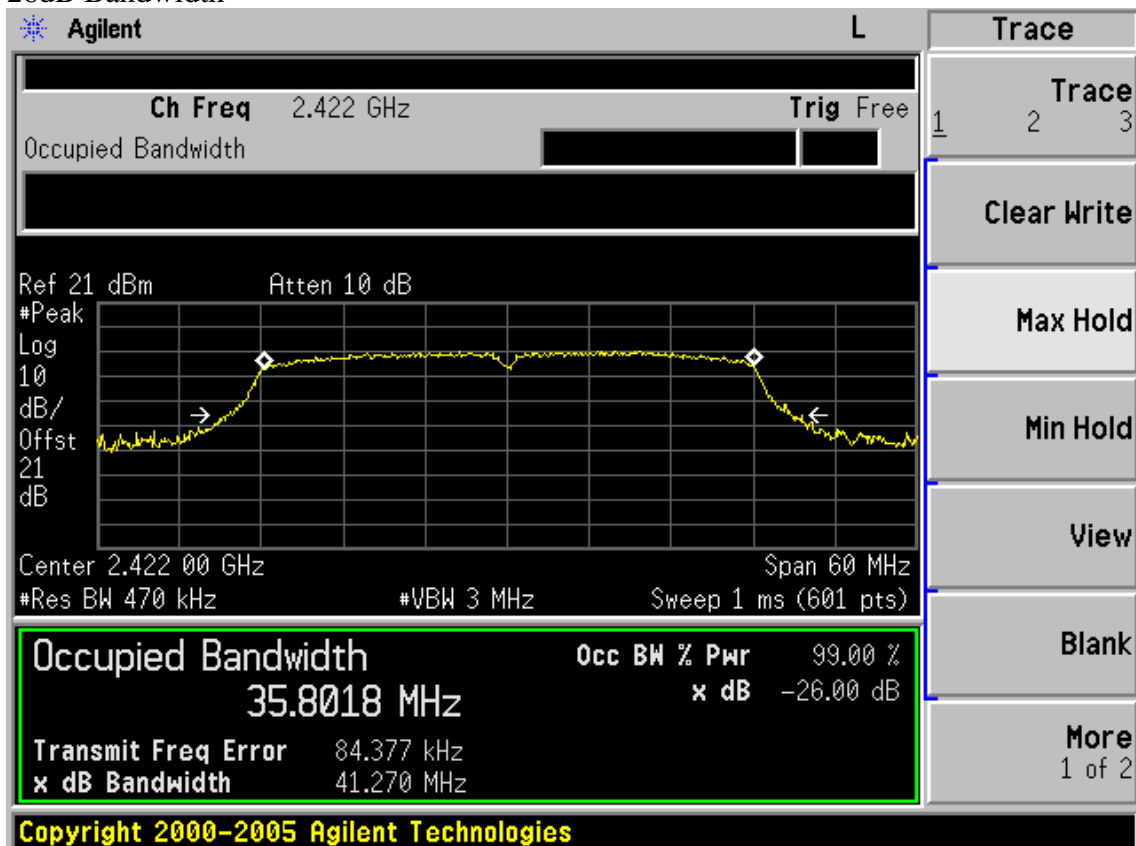
Test Mode	CH	Result		Limit (dBm)
		Measured power(dBm)/3MHz	PK Output power (dBm)	
11n HT40	CH1	7.29	18.73	30
	CH4	14.45	25.89	30
	CH7	5.97	17.41	30
26dB Bandwidth for 11n HT40: 41.803MHz				
BW correction factor = $10\log[(41.803\text{MHz})/(3\text{MHz})] = 11.44\text{dB}$				
Conclusion: PASS				

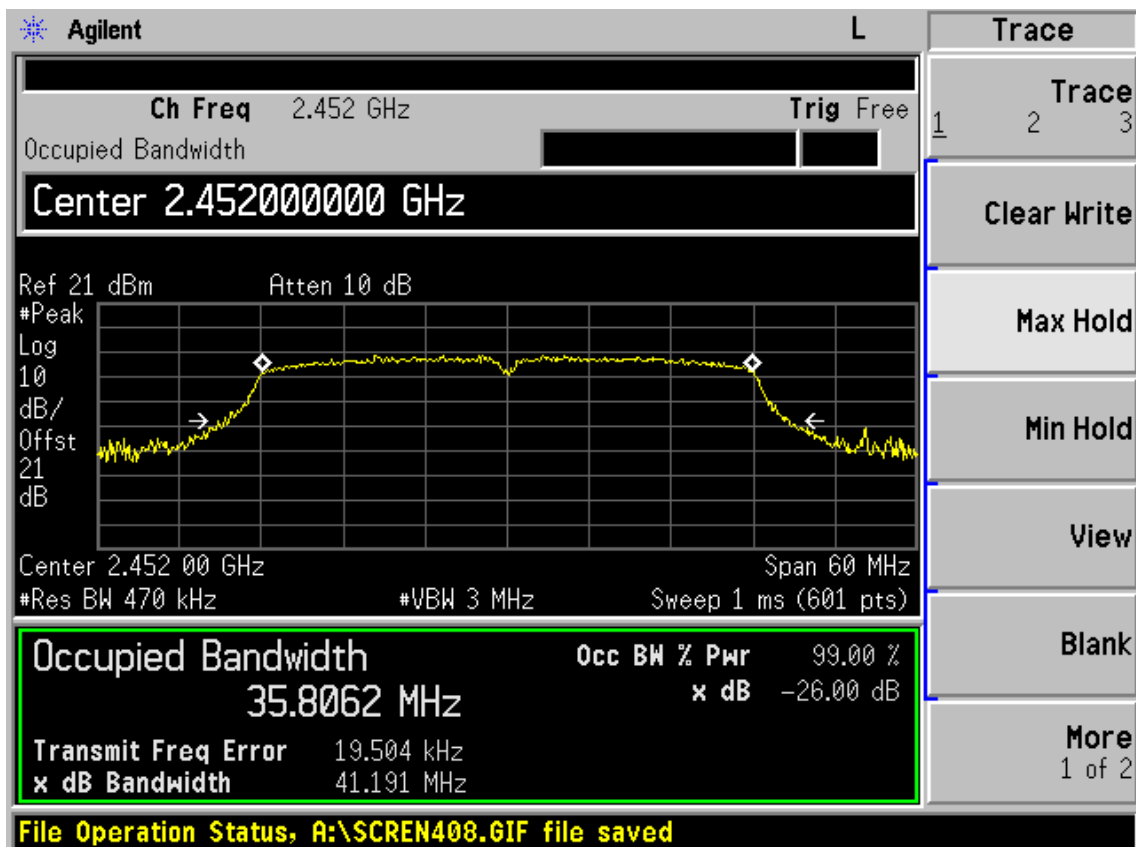
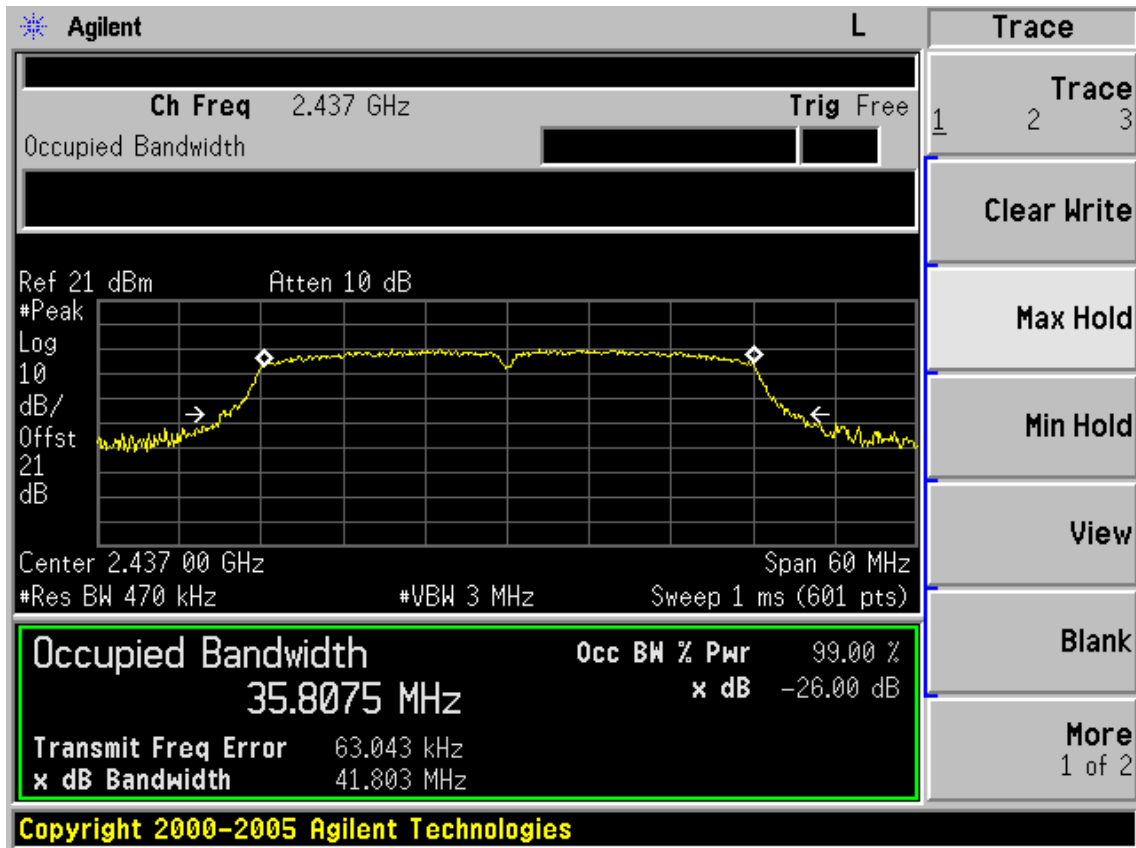
Test Mode: IEEE 802.11n HT40





26dB Bandwidth





9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

9.2. 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.

9.3. 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.

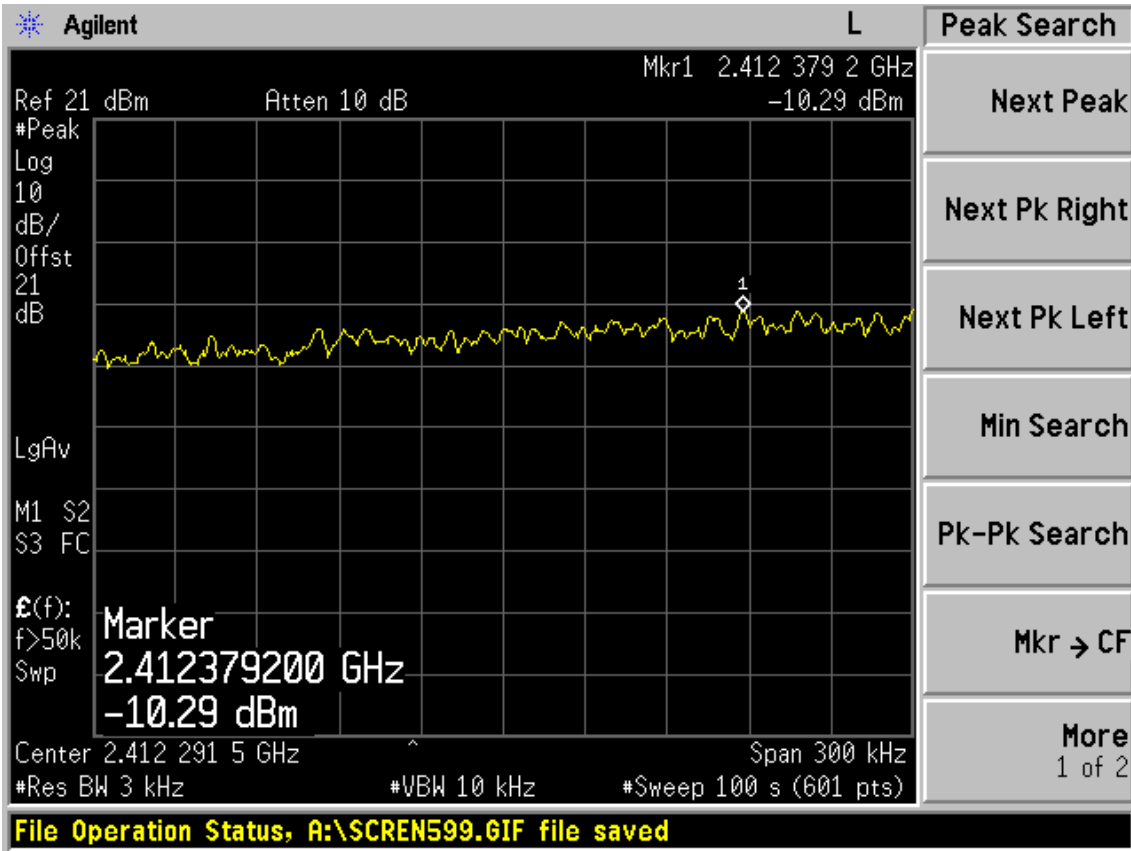
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4. Test Results

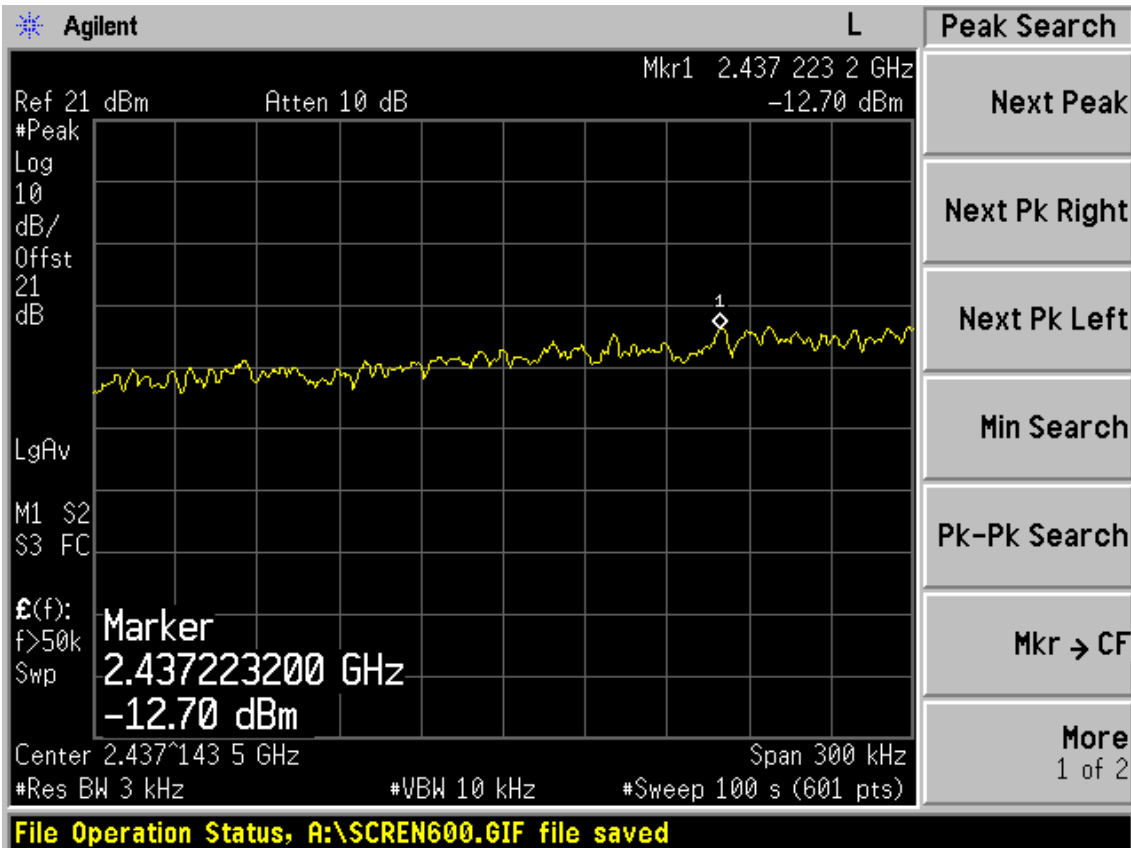
EUT: 150 Mbps 4-Port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date: 2013-02-21	Pressure: 101.1±1.0kpa	Humidity: 51.8±3.0 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 23.3±0.6°C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH	Power density (dBm/3KHz)	Limit (dBm/3KHz)
11b	CH1	-10.29	8
	CH6	-12.70	8
	CH11	-8.94	8
11g	CH1	-17.52	8
	CH6	-6.18	8
	CH11	-14.39	8
11n HT20	CH1	-13.82	8
	CH6	-6.84	8
	CH11	-14.68	8
11n HT40	CH1	-16.55	8
	CH4	-9.08	8
	CH7	-17.67	8
Conclusion : PASS			

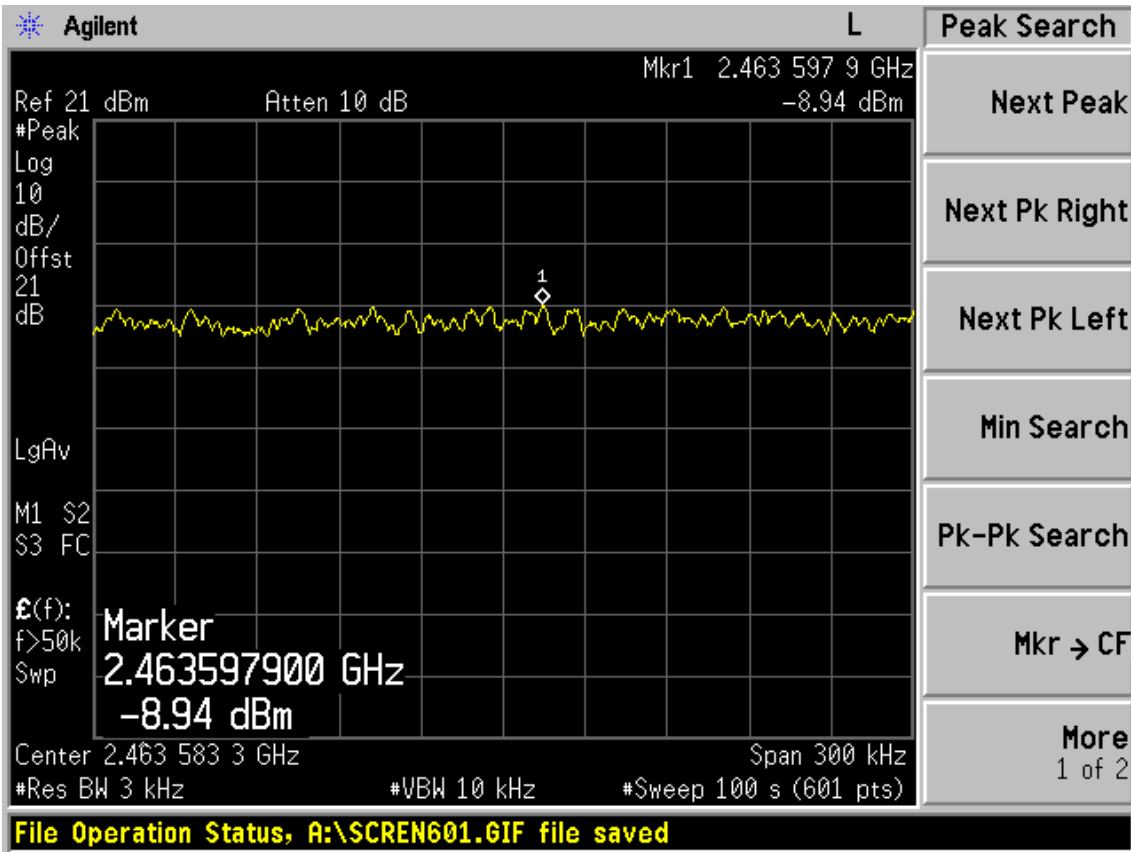
Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

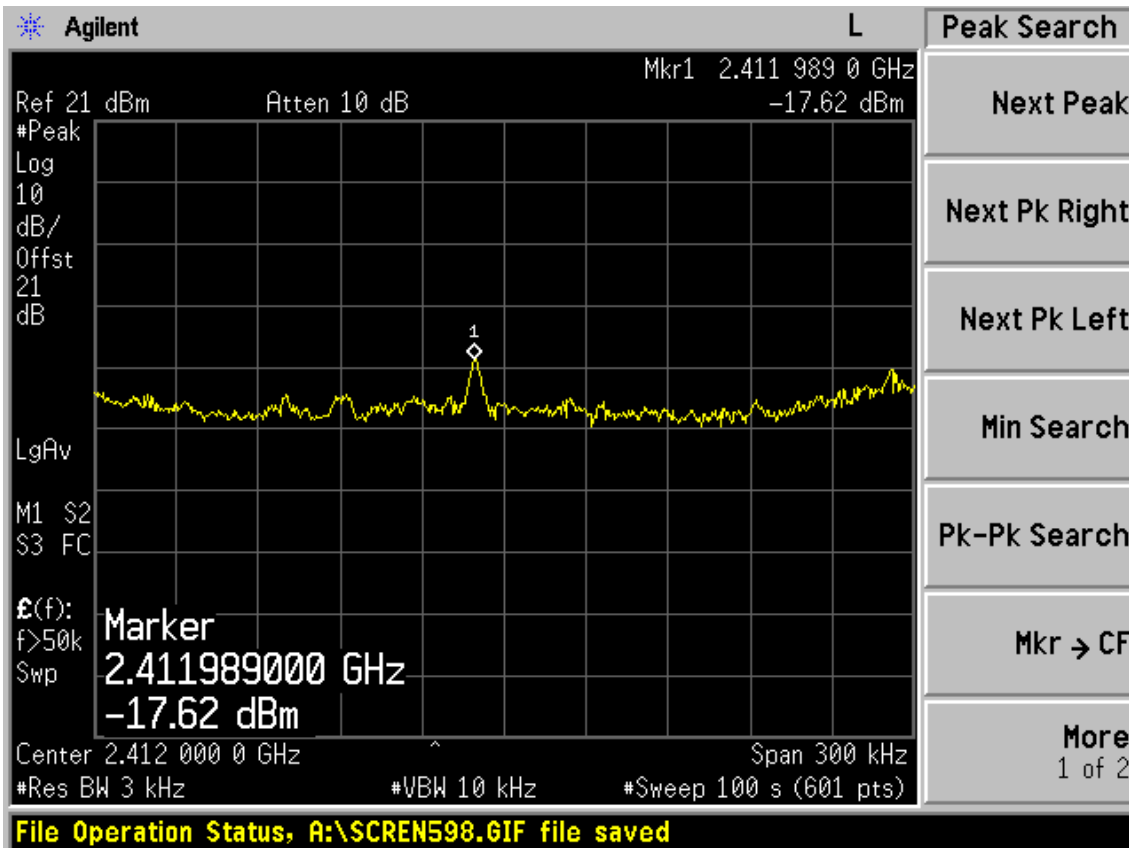


Test CH11: 2462MHz

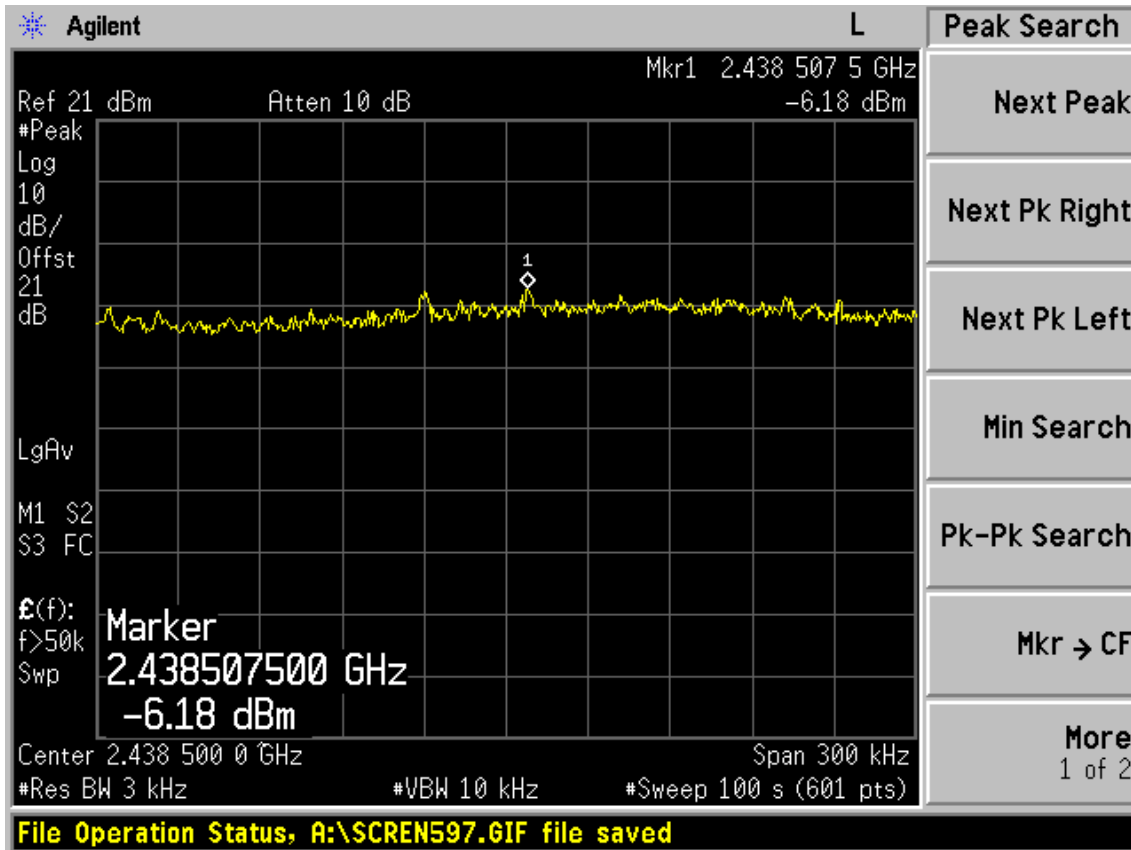


Test Mode: IEEE 802.11g TX

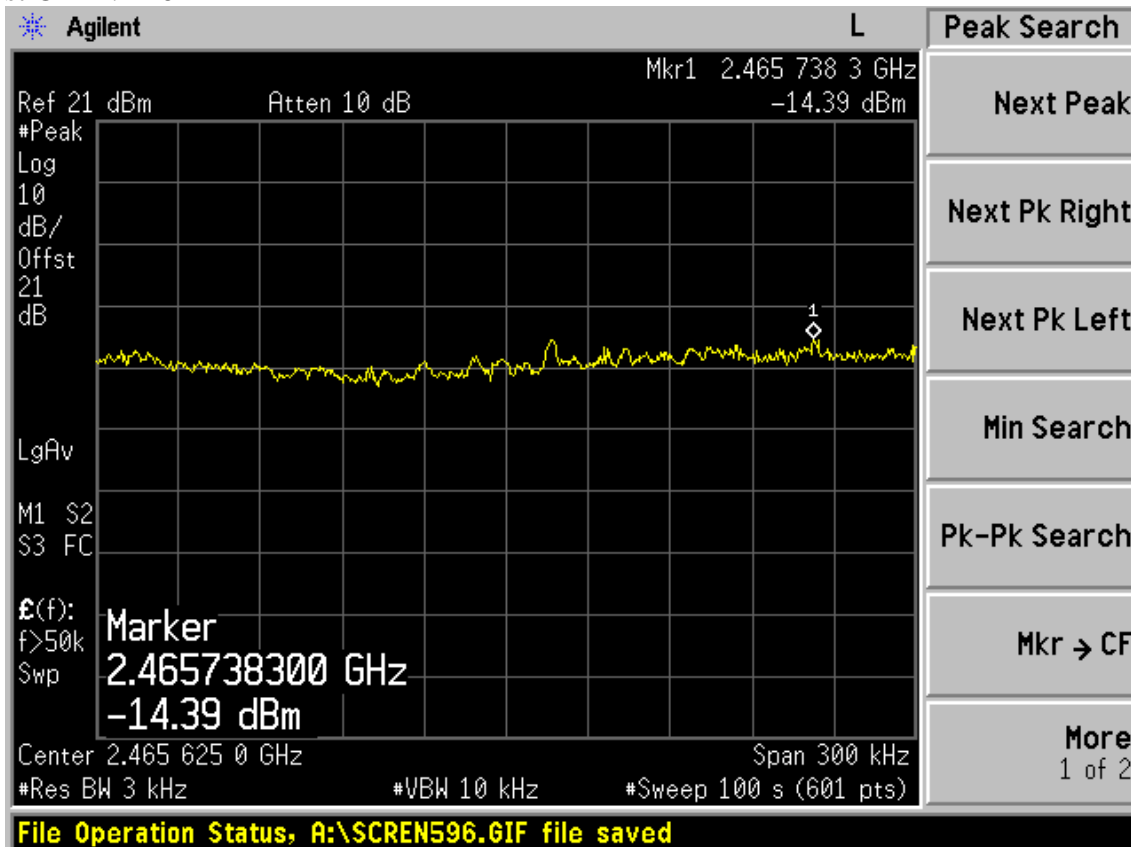
Test CH1: 2412MHz



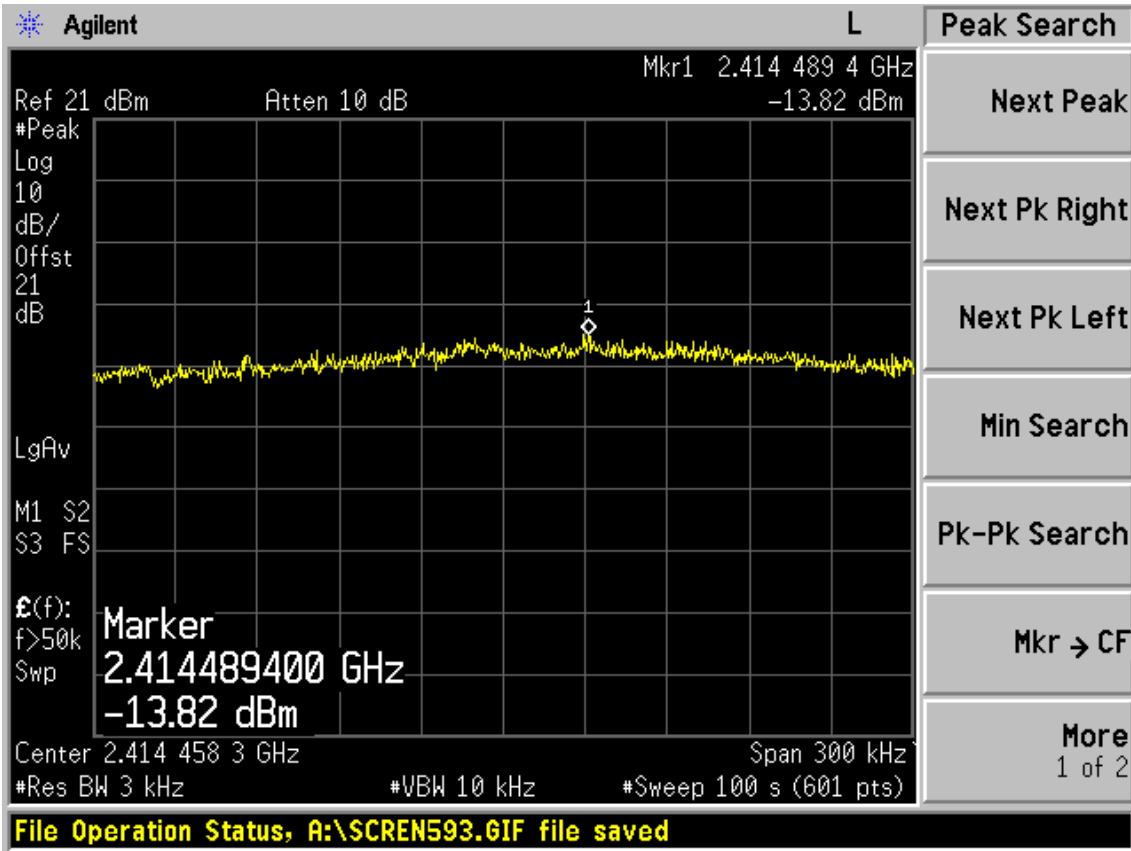
Test CH6: 2437MHz



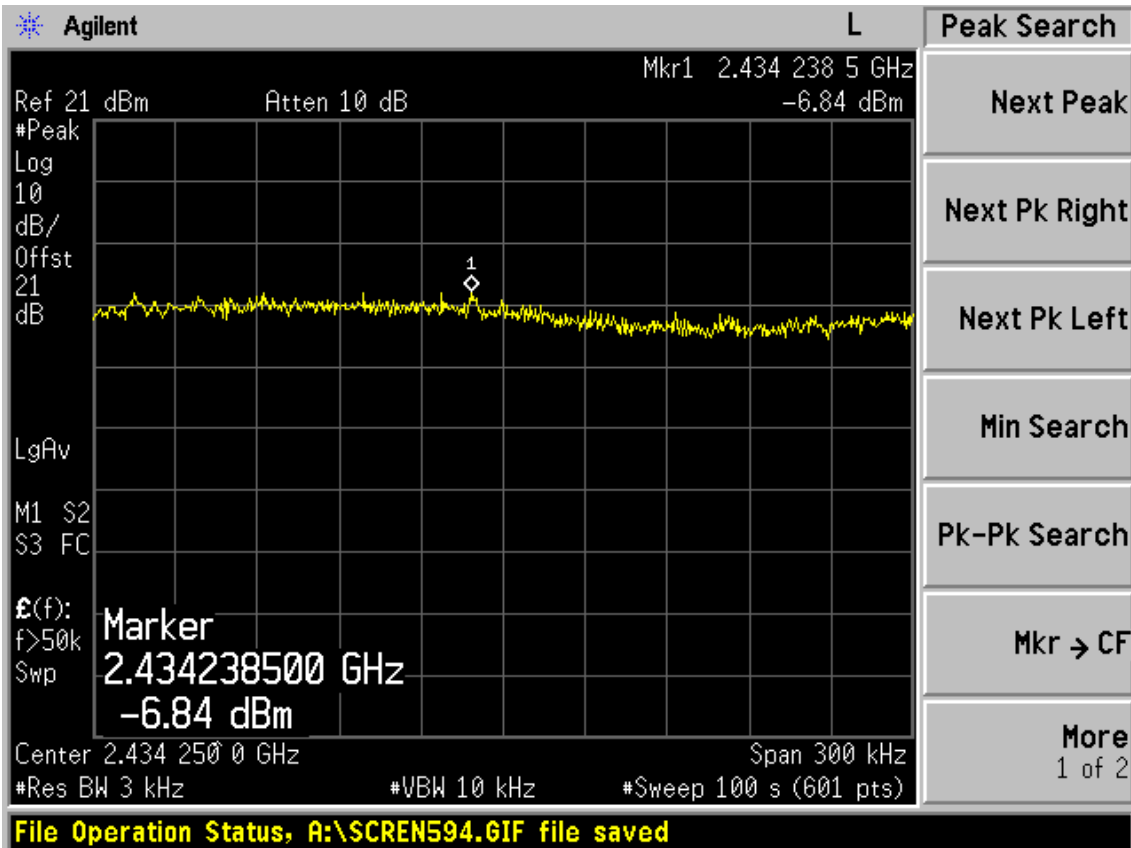
Test CH11: 2462MHz



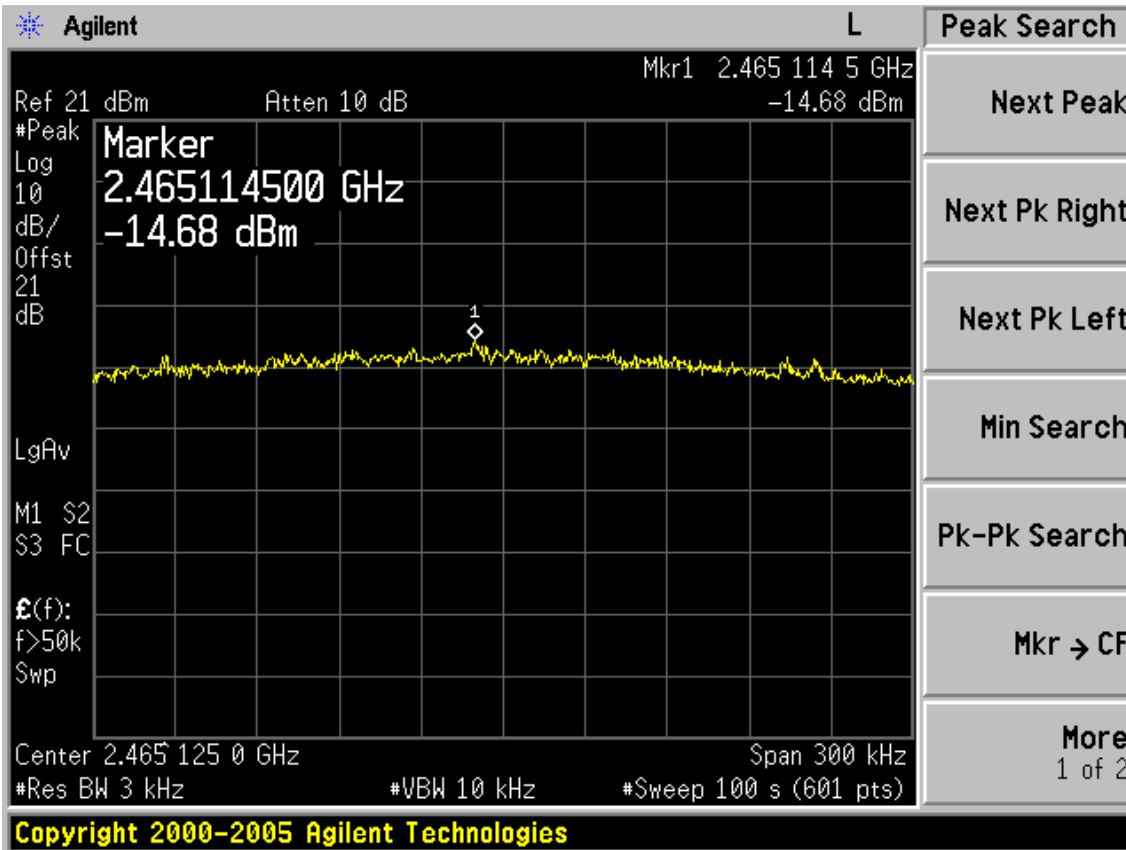
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



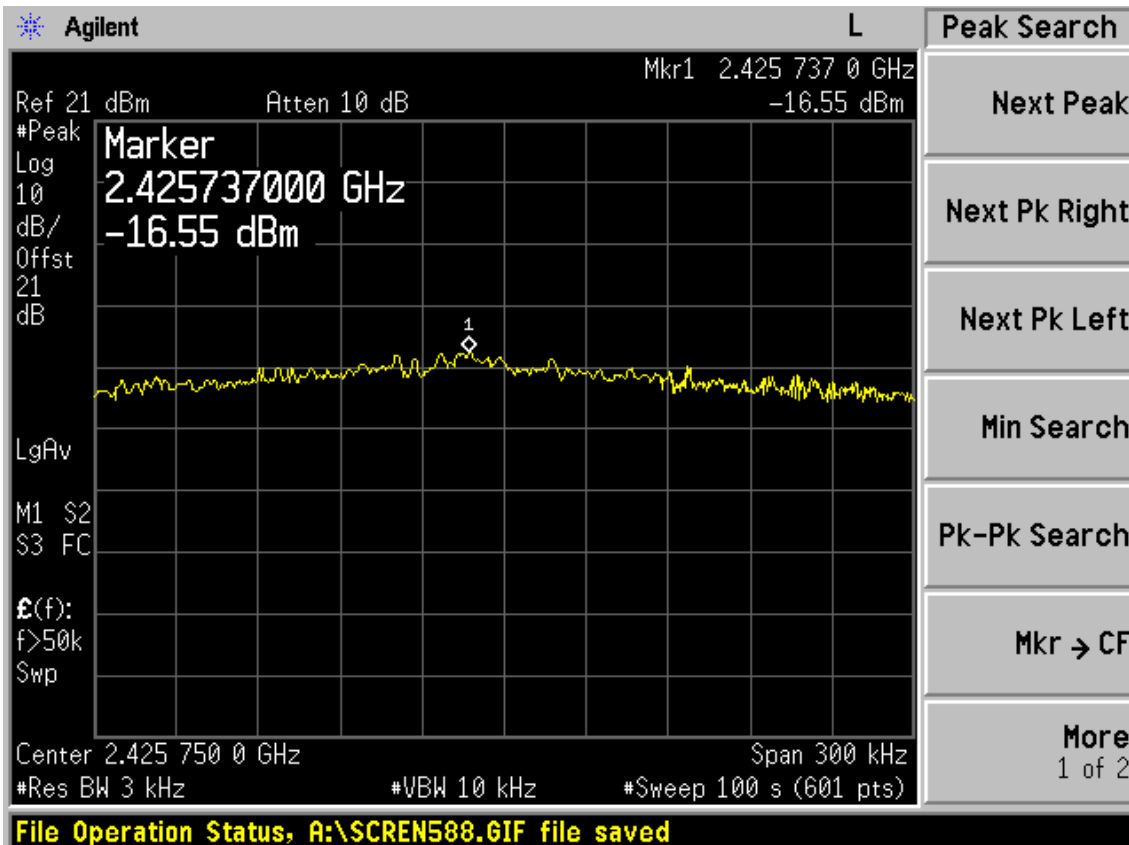
Test CH6: 2437MHz



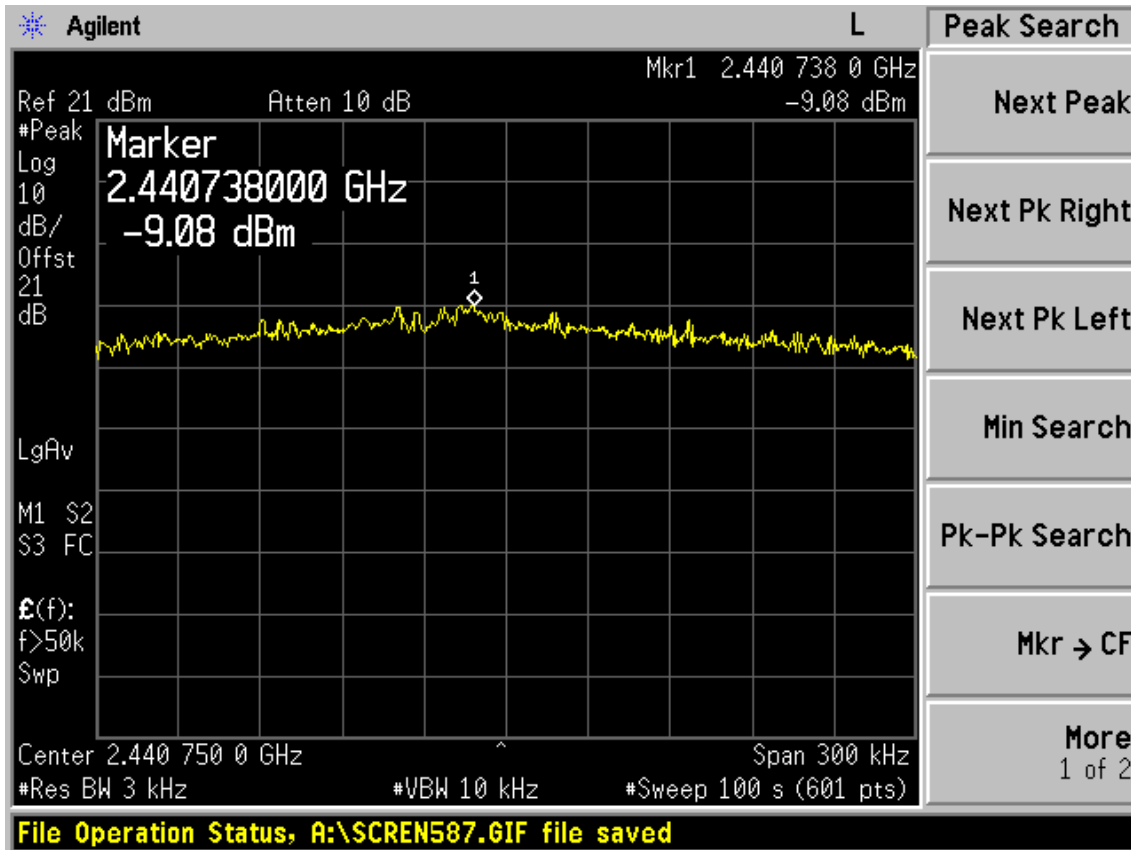
Test CH11: 2462MHz



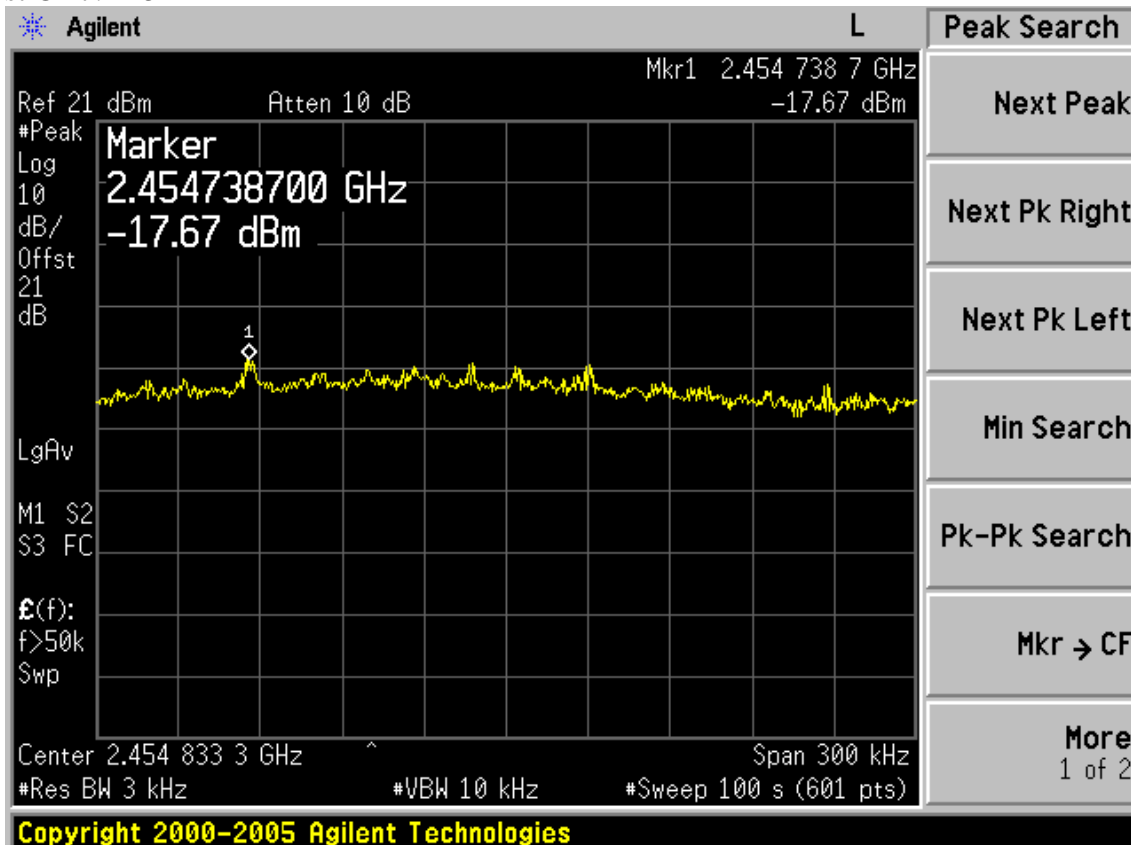
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



10. ANTENNA REQUIREMENT

10.1. 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.

10.2. 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.

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

11.2. Estimation Result

EUT: 150 Mbps 4-Port Wireless Broadband Router		
M/N: SMCWBR14S-N5		
Test date:2013-02-21	Pressure: 101.3±1.0 kpa	Humidity: 53.6±3.0 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.8±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 5 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	18.99	79.25	5	3.16	0.0499
	CH6	2437	19.49	88.92	5	3.16	0.0560
	CH11	2462	18.58	72.11	5	3.16	0.0454
11g	CH1	2412	20.07	101.62	5	3.16	0.0640
	CH6	2437	26.74	472.06	5	3.16	0.2971
	CH11	2462	18.86	76.91	5	3.16	0.0484
11n HT20	CH1	2412	18.92	77.98	5	3.16	0.0491
	CH6	2437	26.66	463.45	5	3.16	0.2917
	CH11	2462	18.22	66.37	5	3.16	0.0418
11n HT40	CH1	2422	18.73	74.64	5	3.16	0.0470
	CH4	2437	25.89	388.15	5	3.16	0.2443
	CH7	2452	17.41	55.08	5	3.16	0.0347

12. DEVIATION TO TEST SPECIFICATIONS

[NONE]