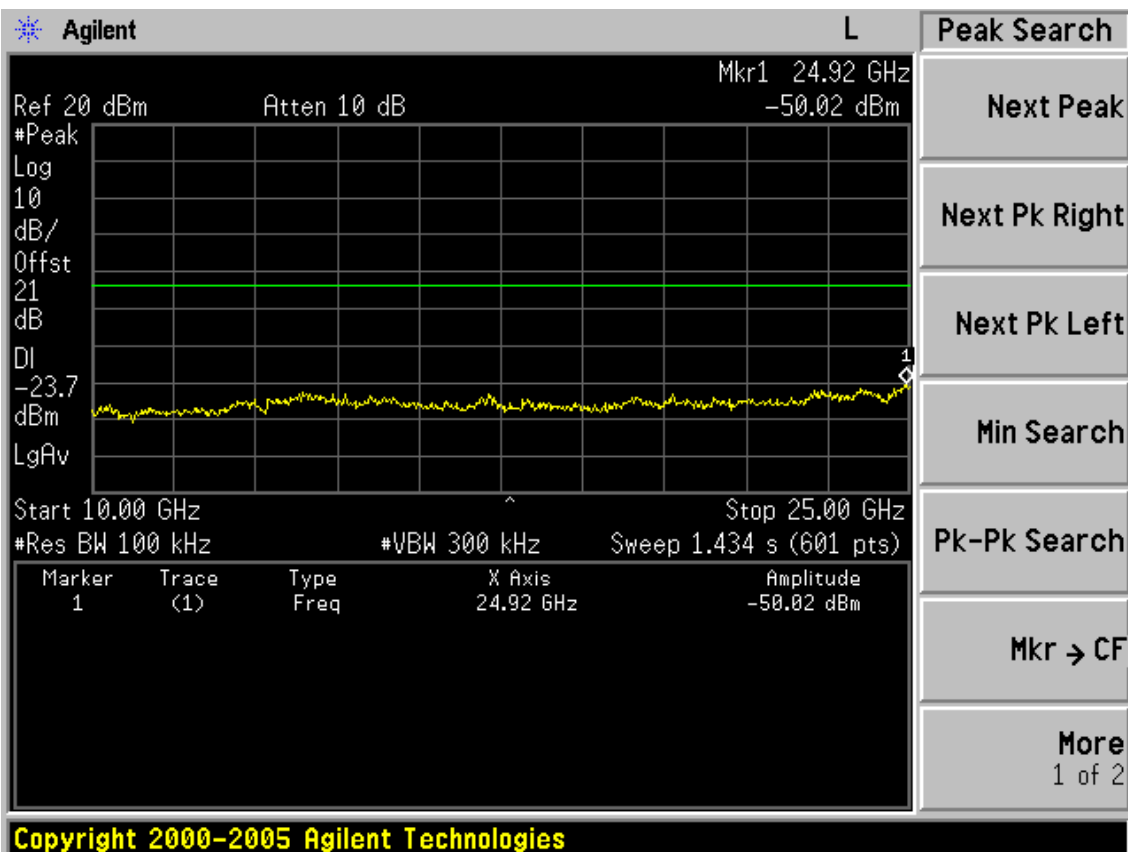
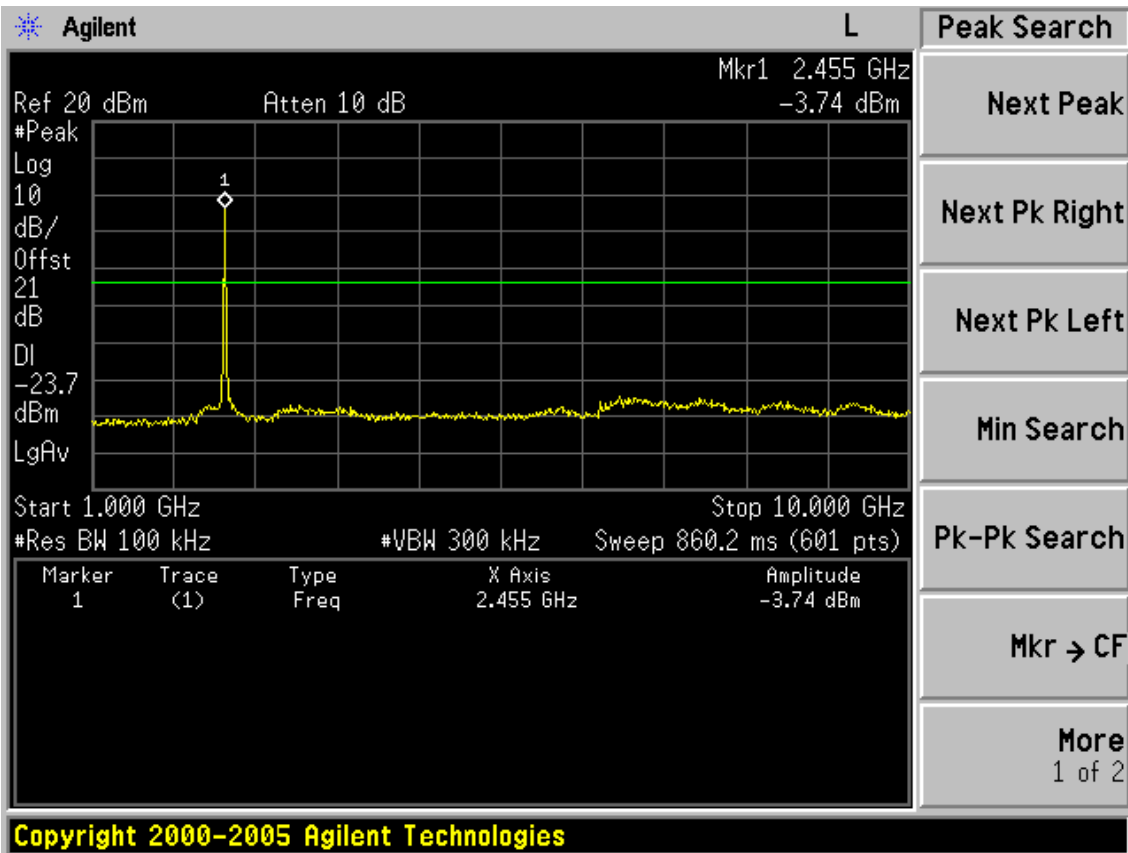
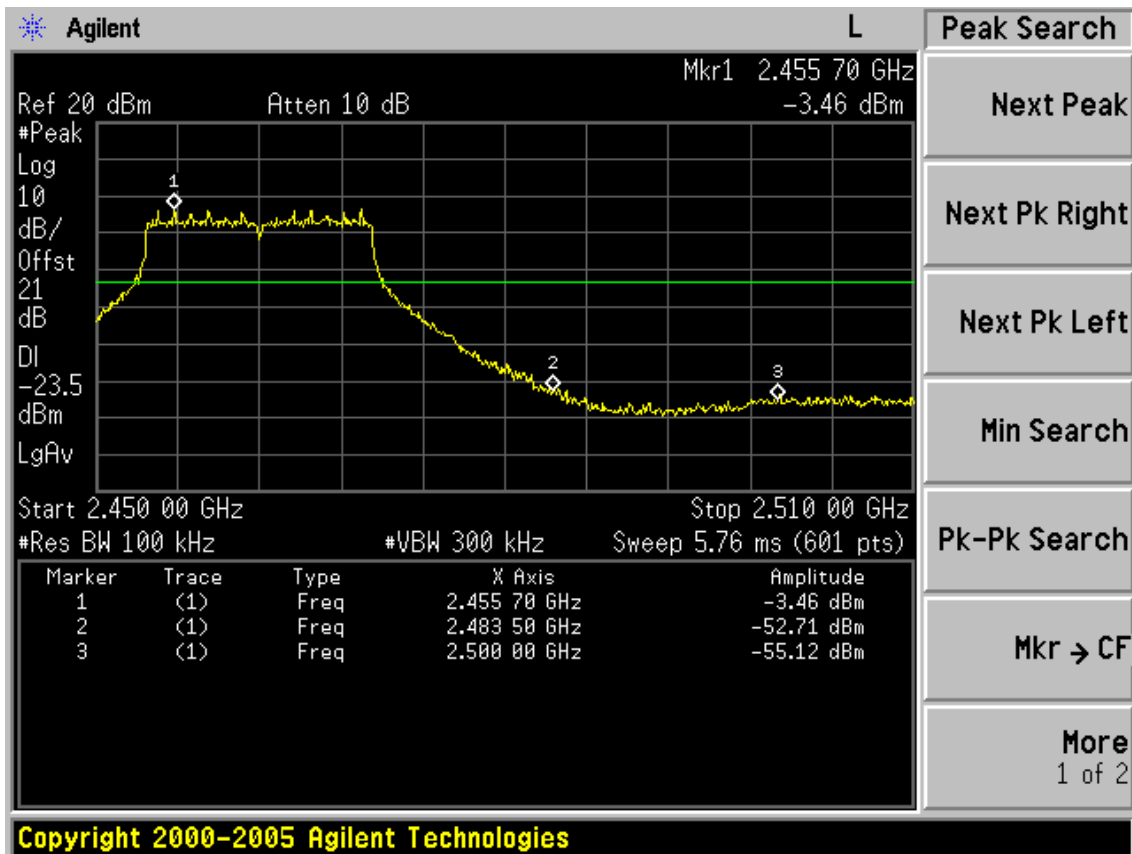
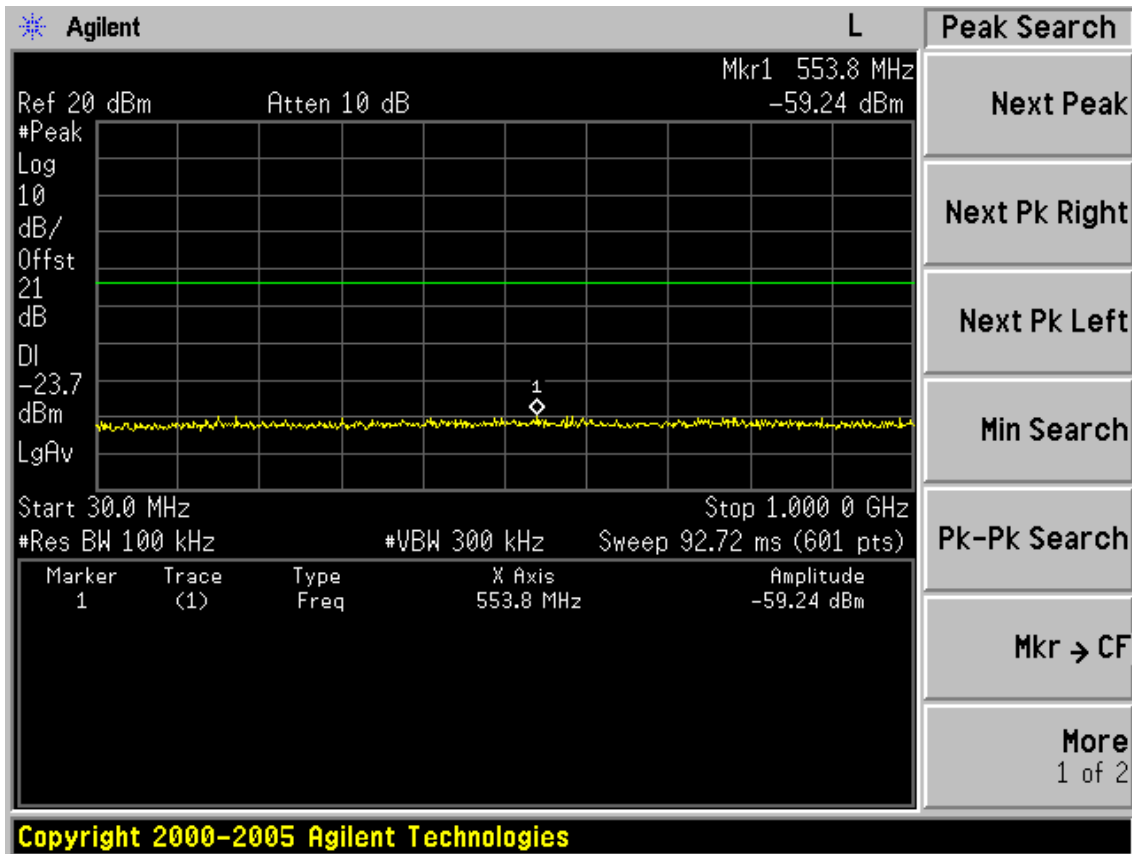


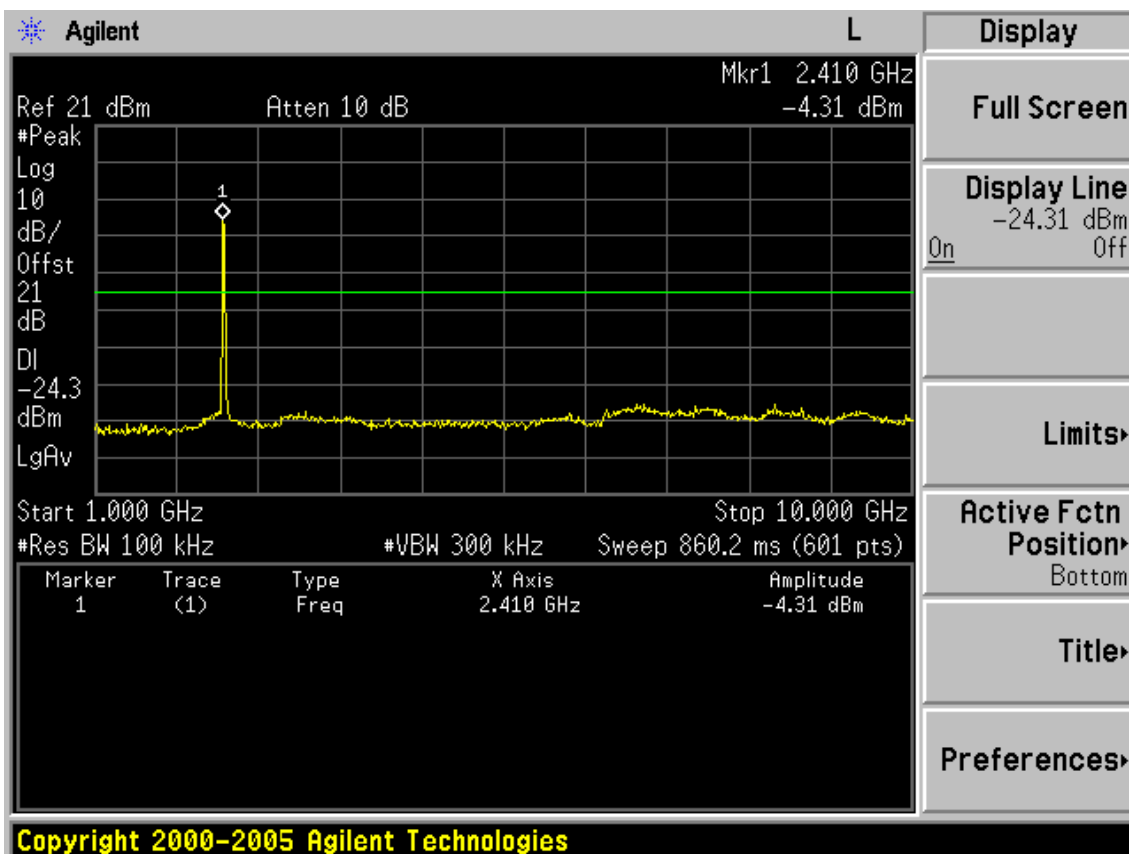
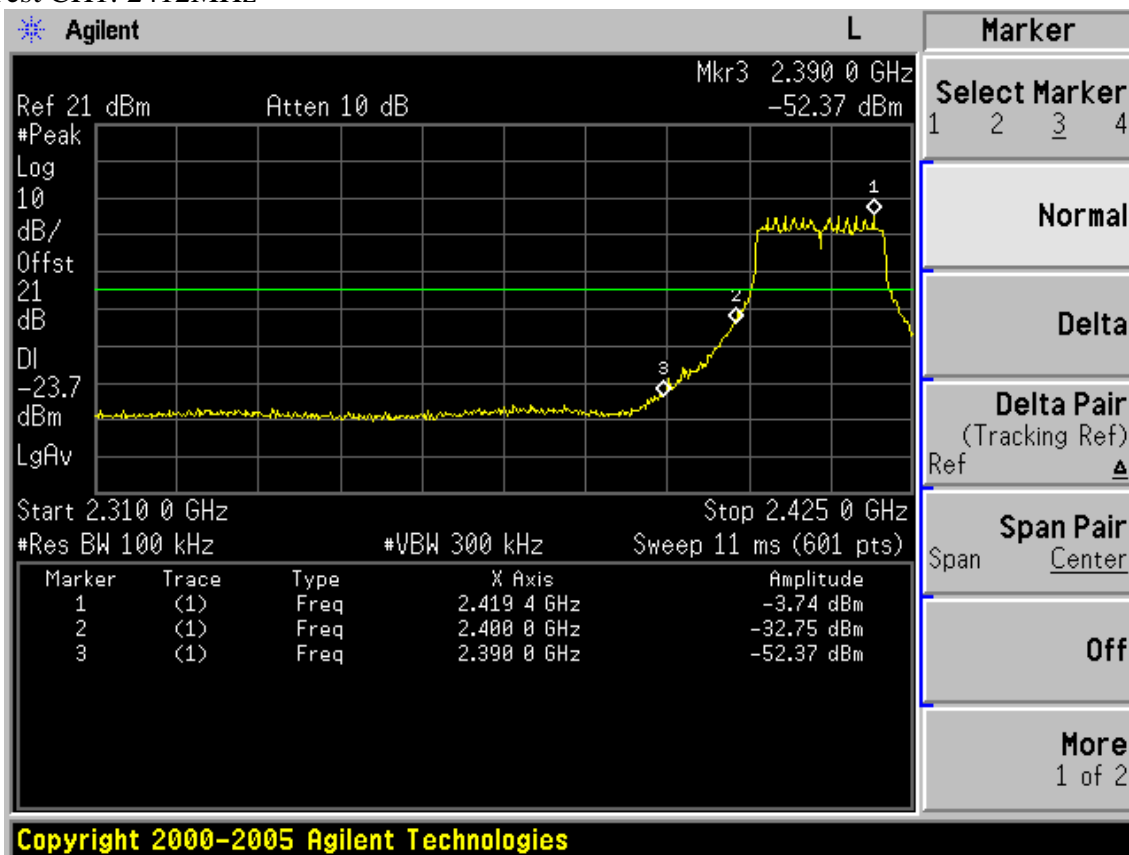
Test CH11: 2462MHz

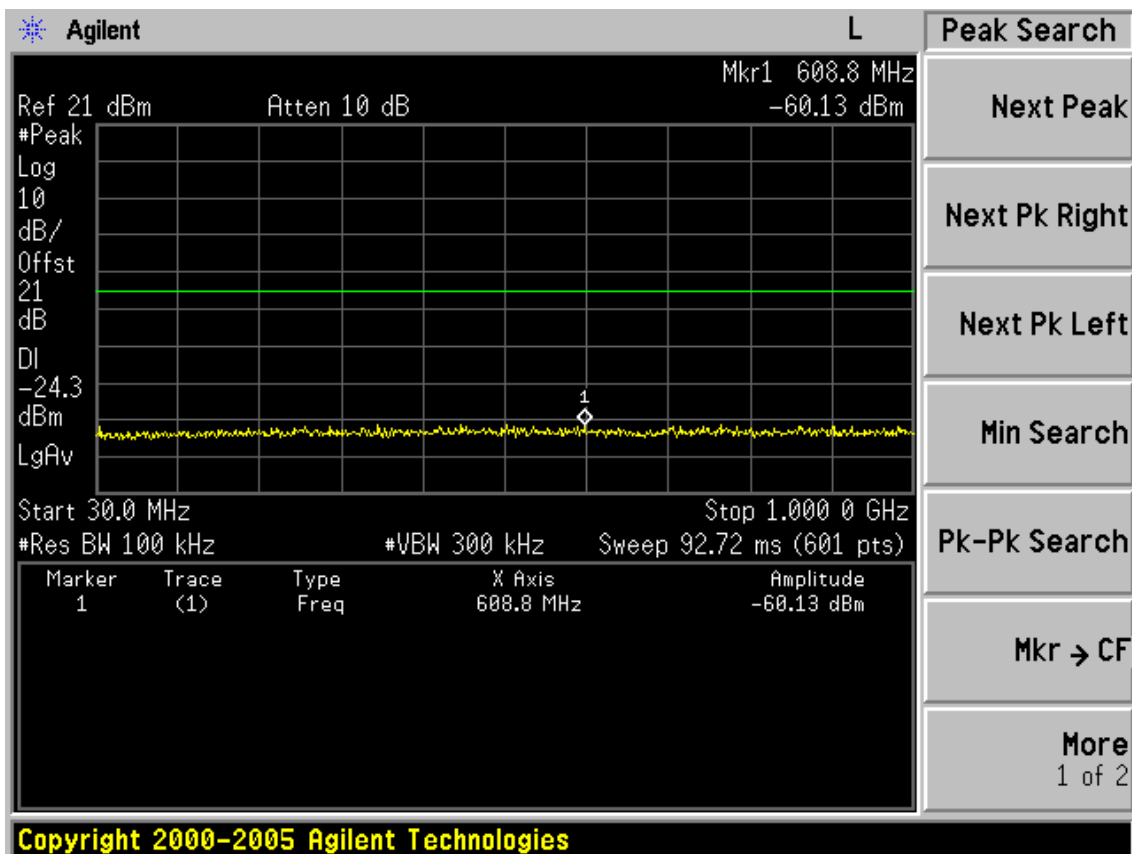
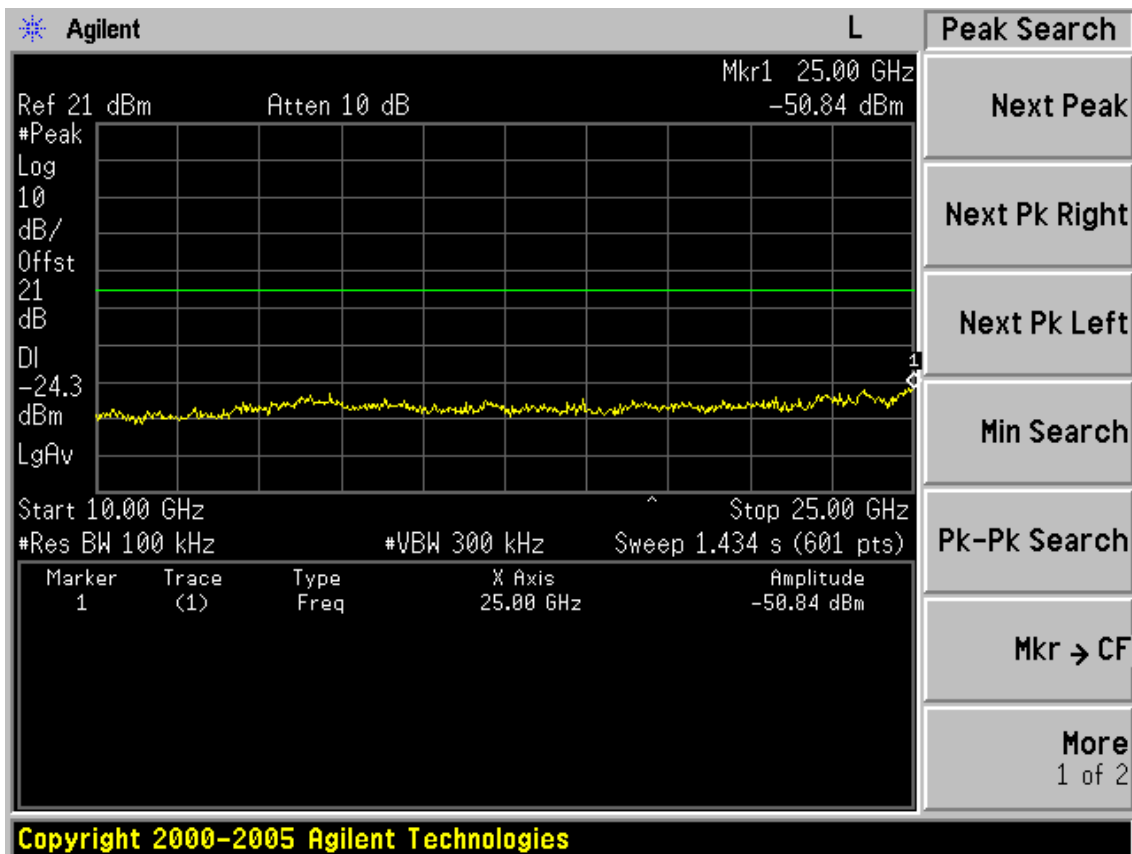




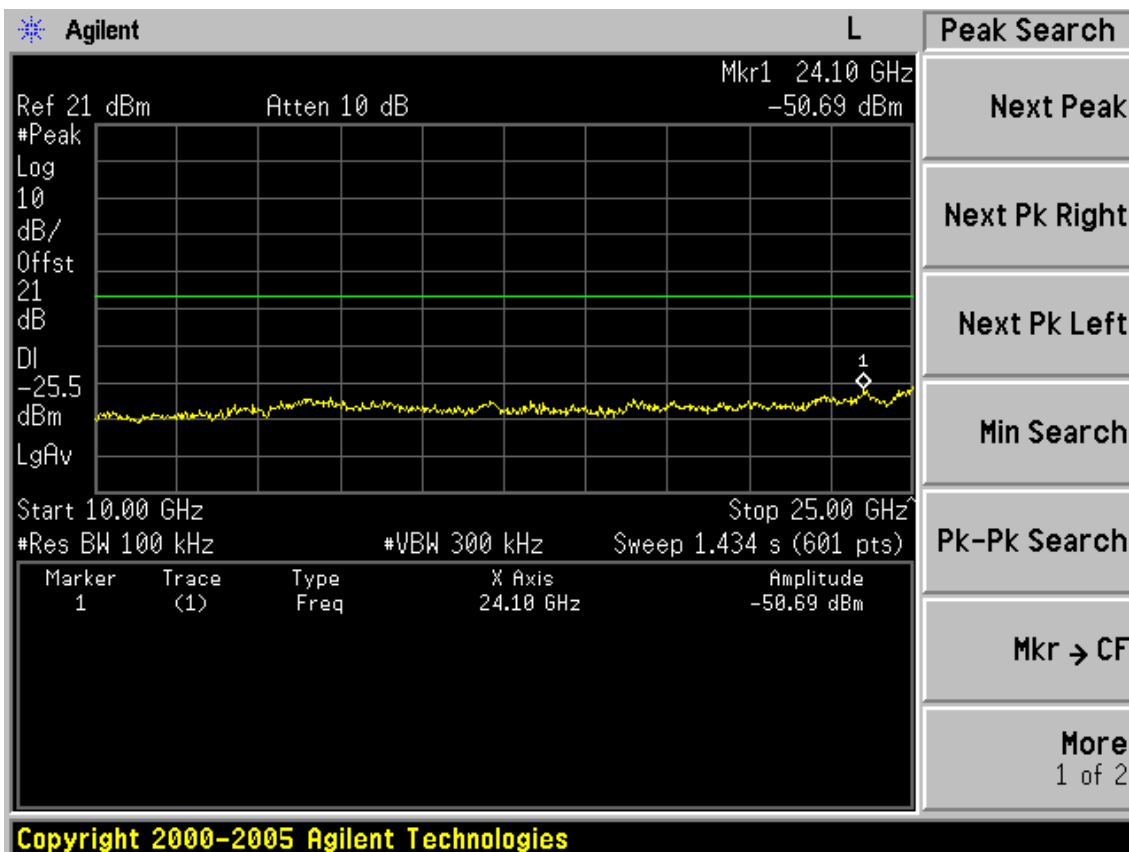
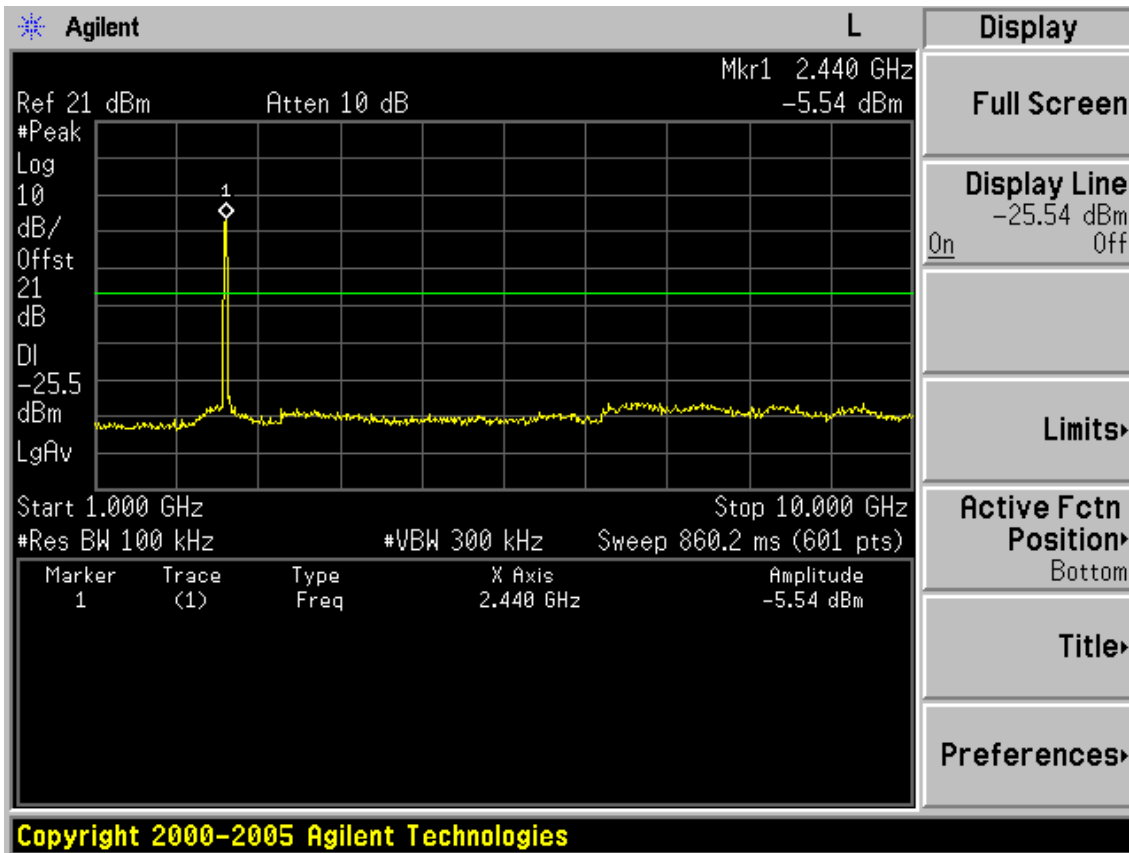
Test Mode: IEEE 802.11n HT20 TX

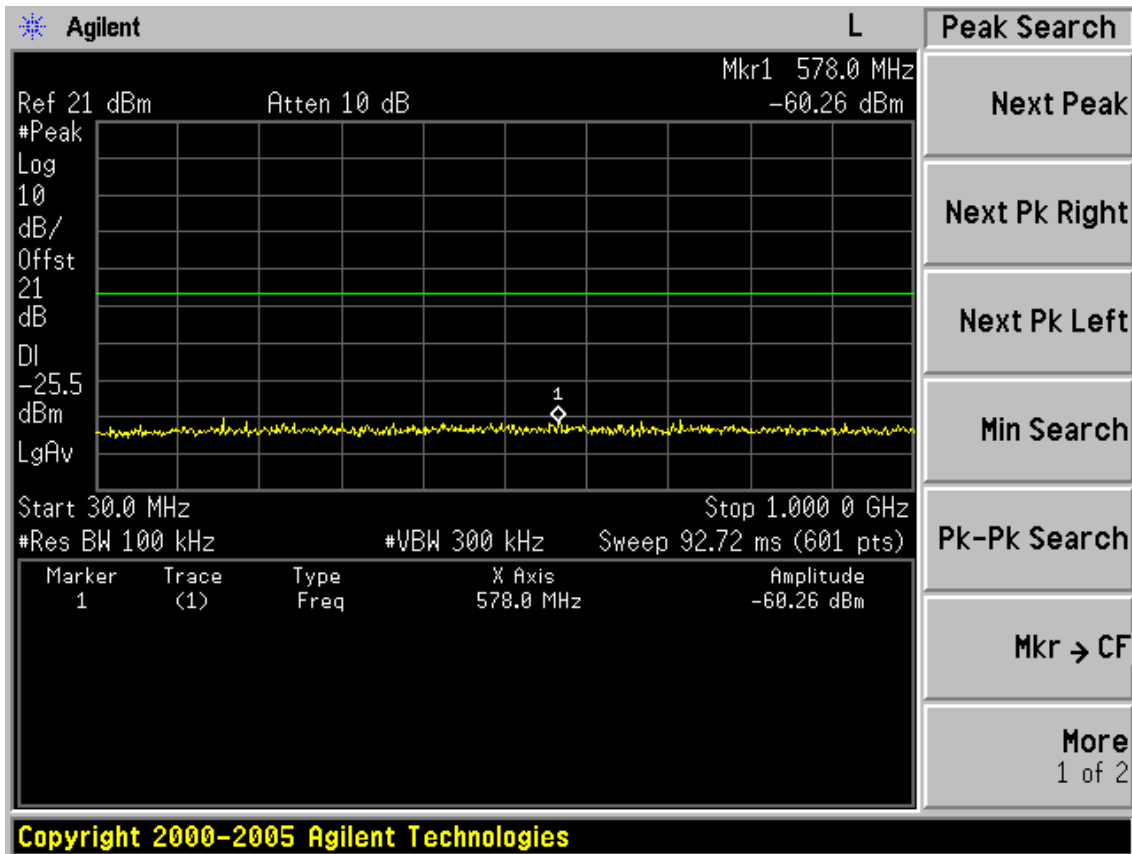
Test CH1: 2412MHz



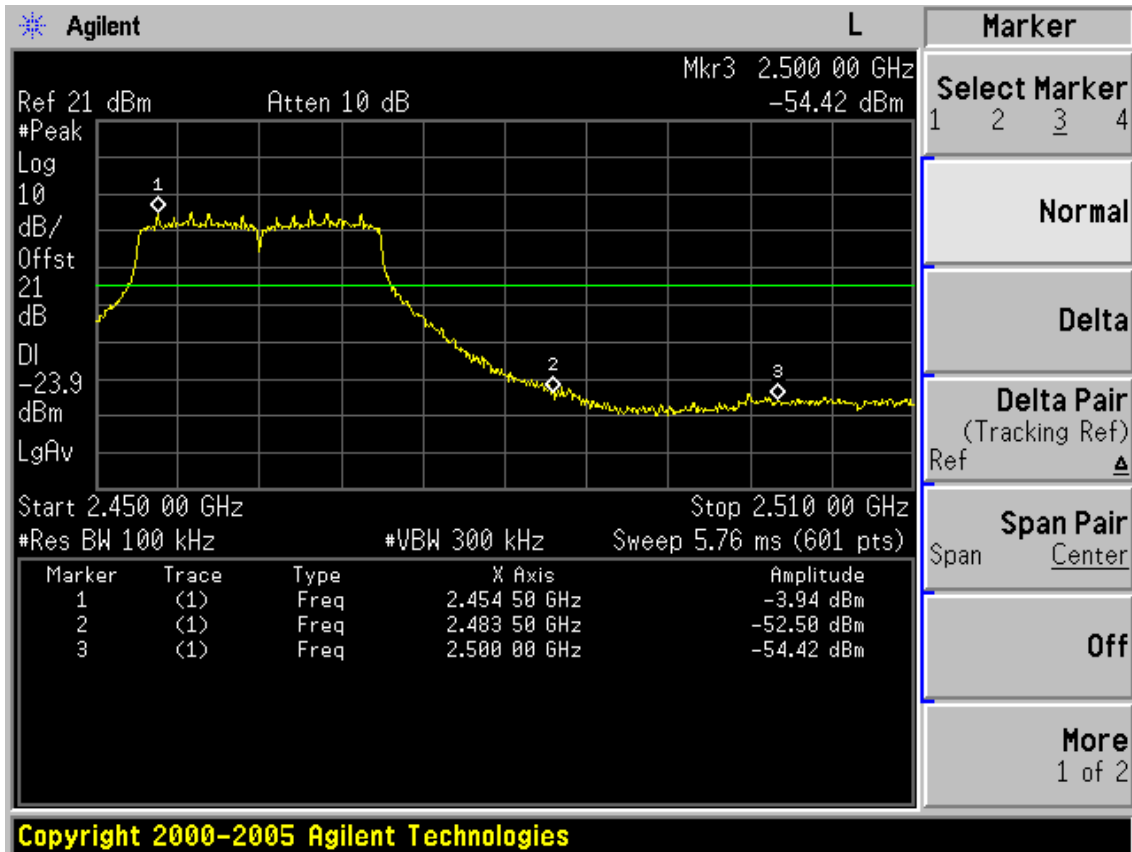


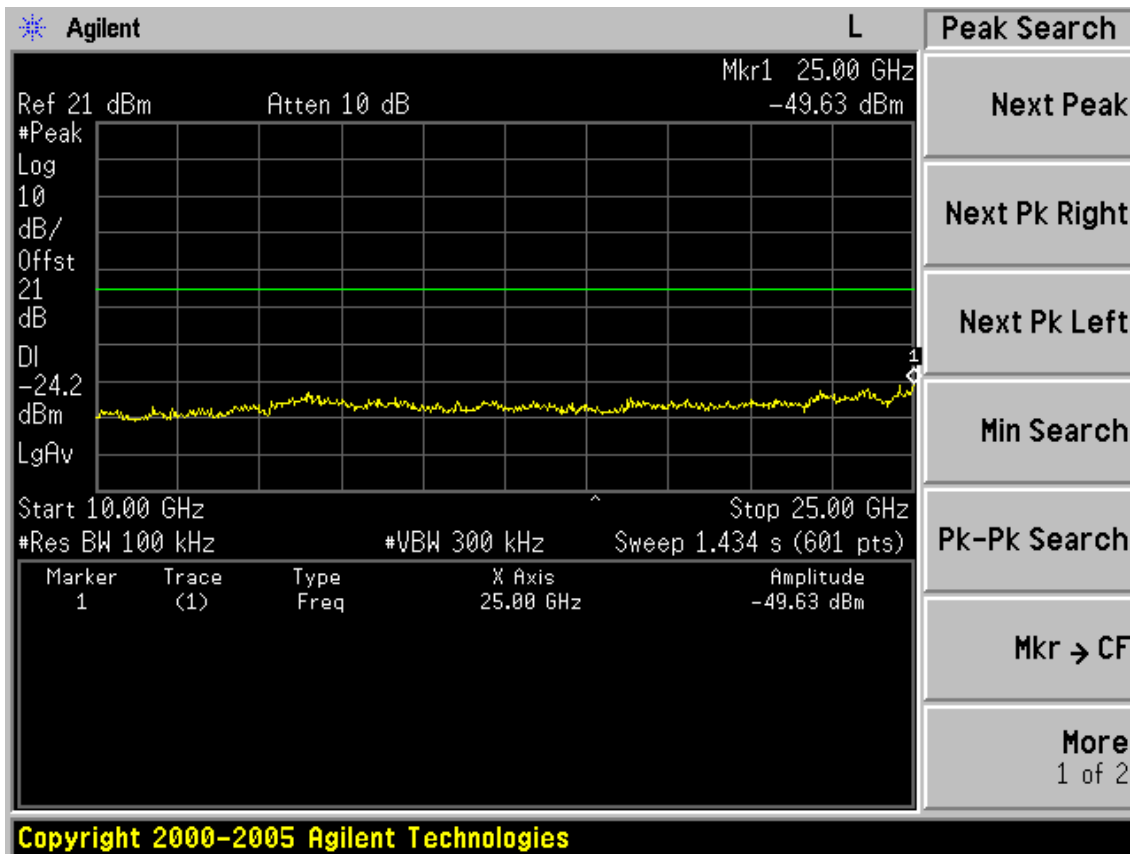
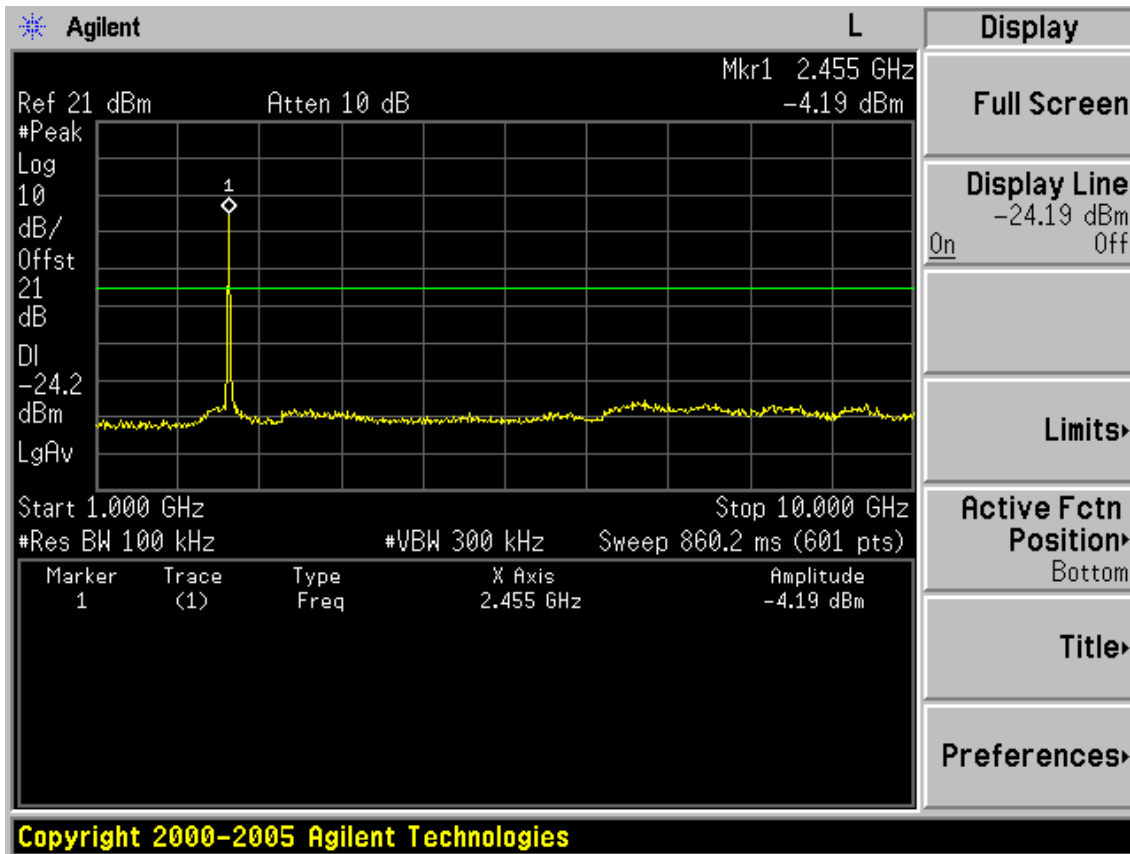
Test CH6: 2437MHz

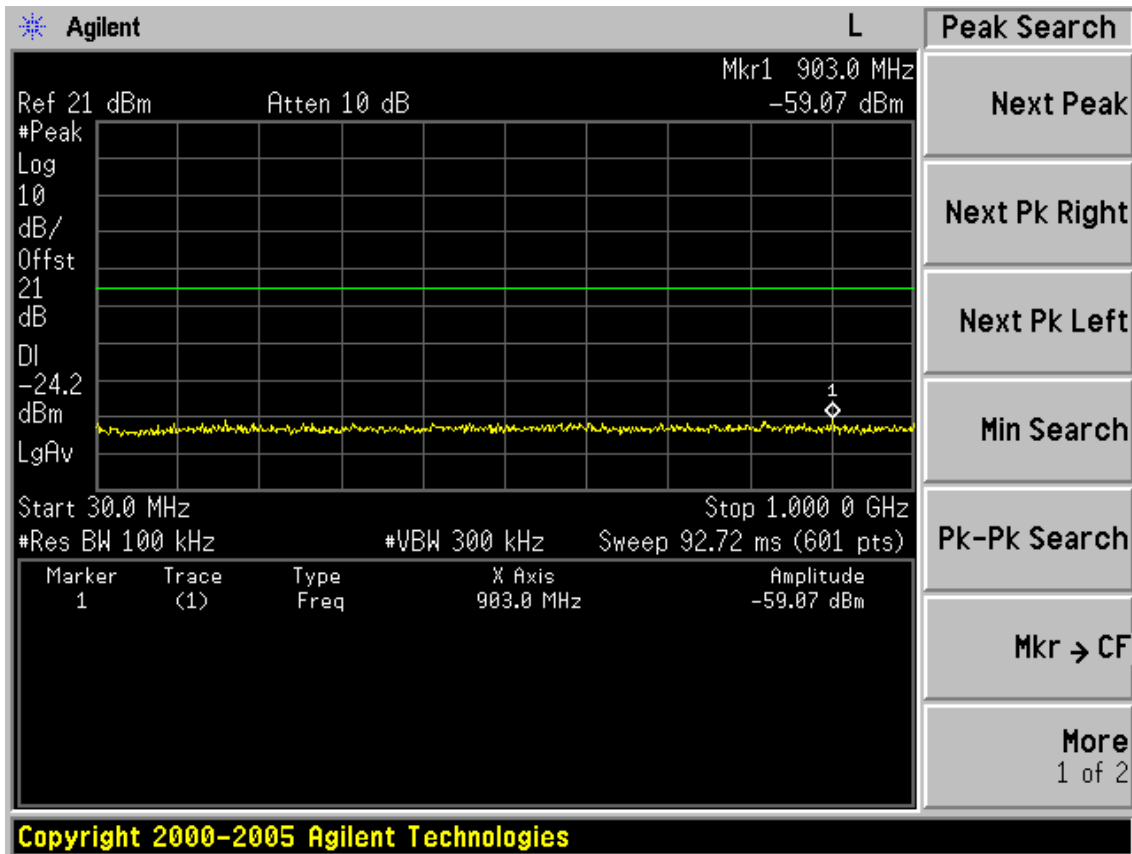




Test CH11: 2462MHz

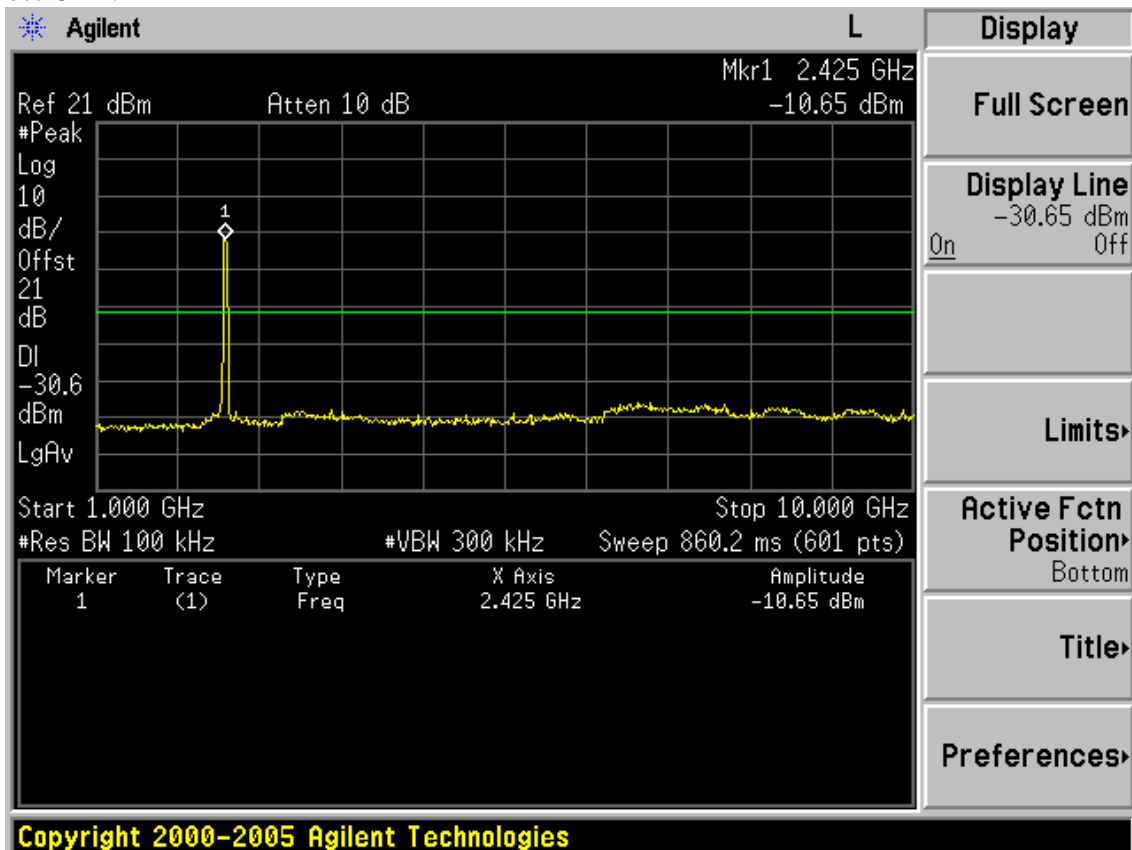


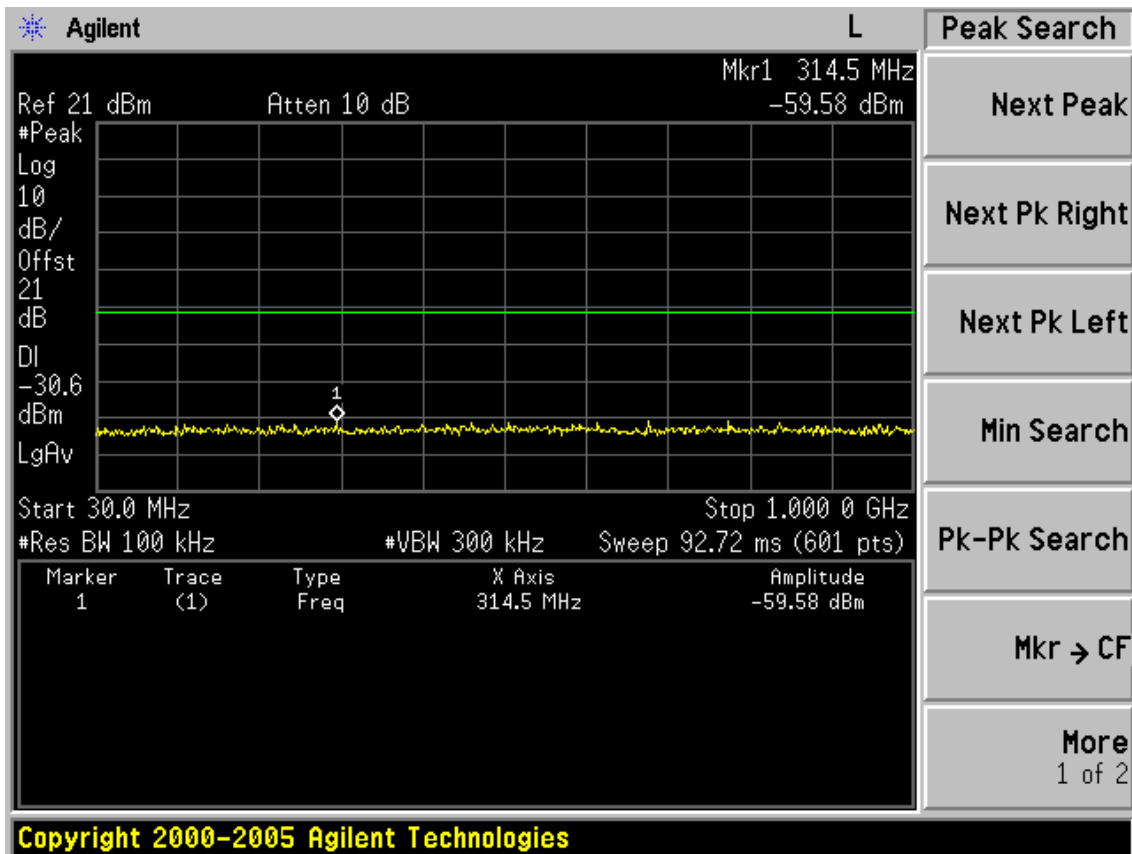
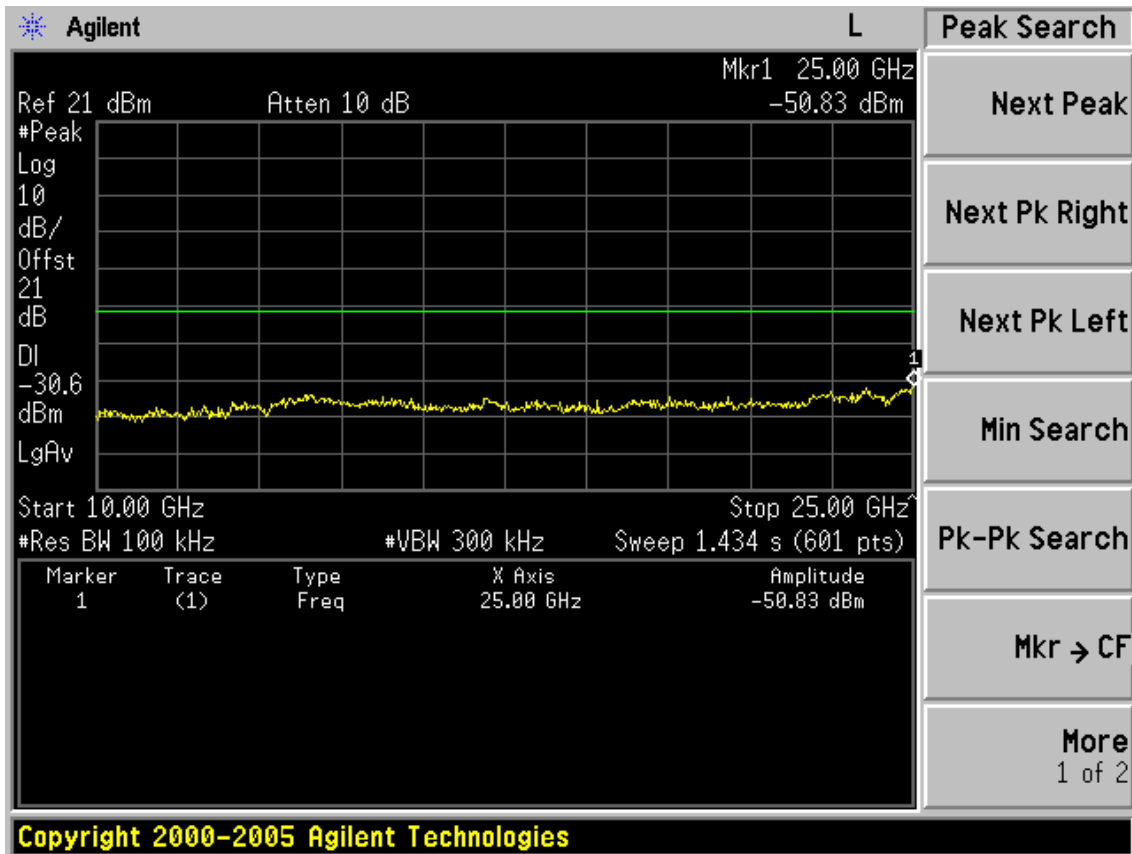


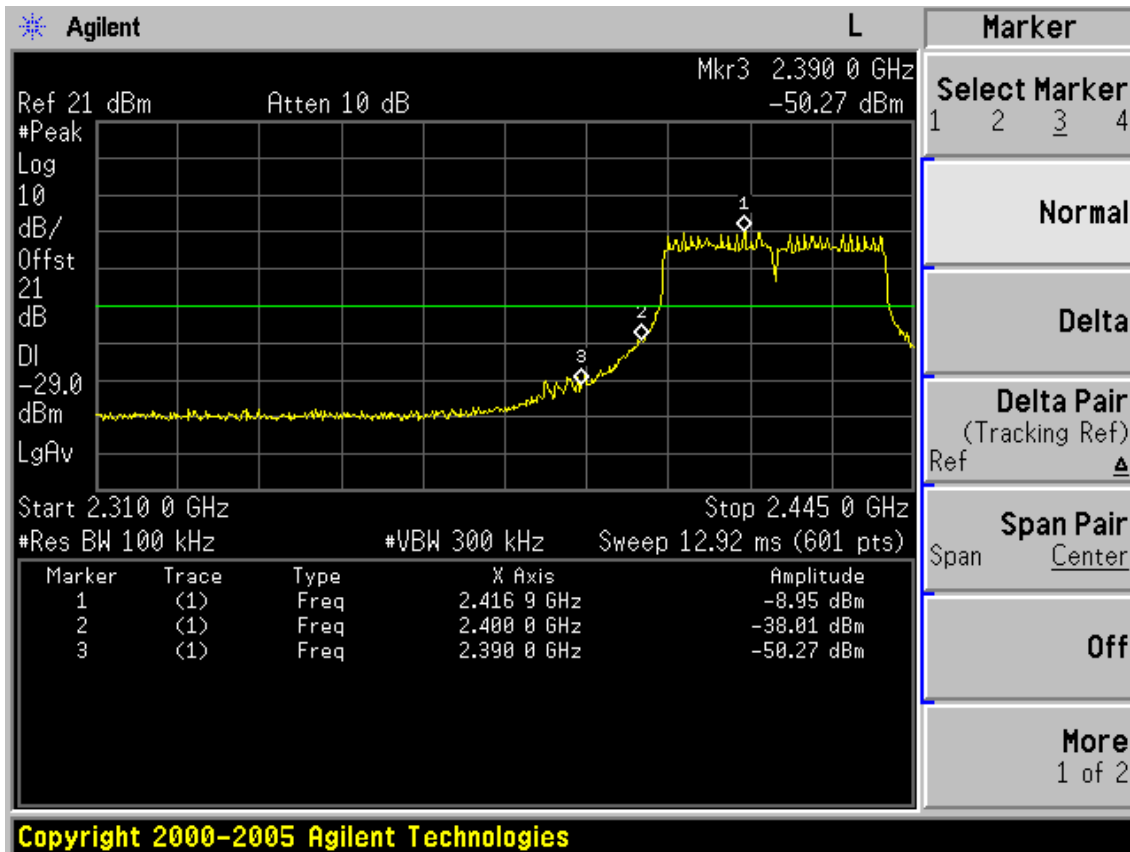


Test Mode: IEEE 802.11n HT40 TX

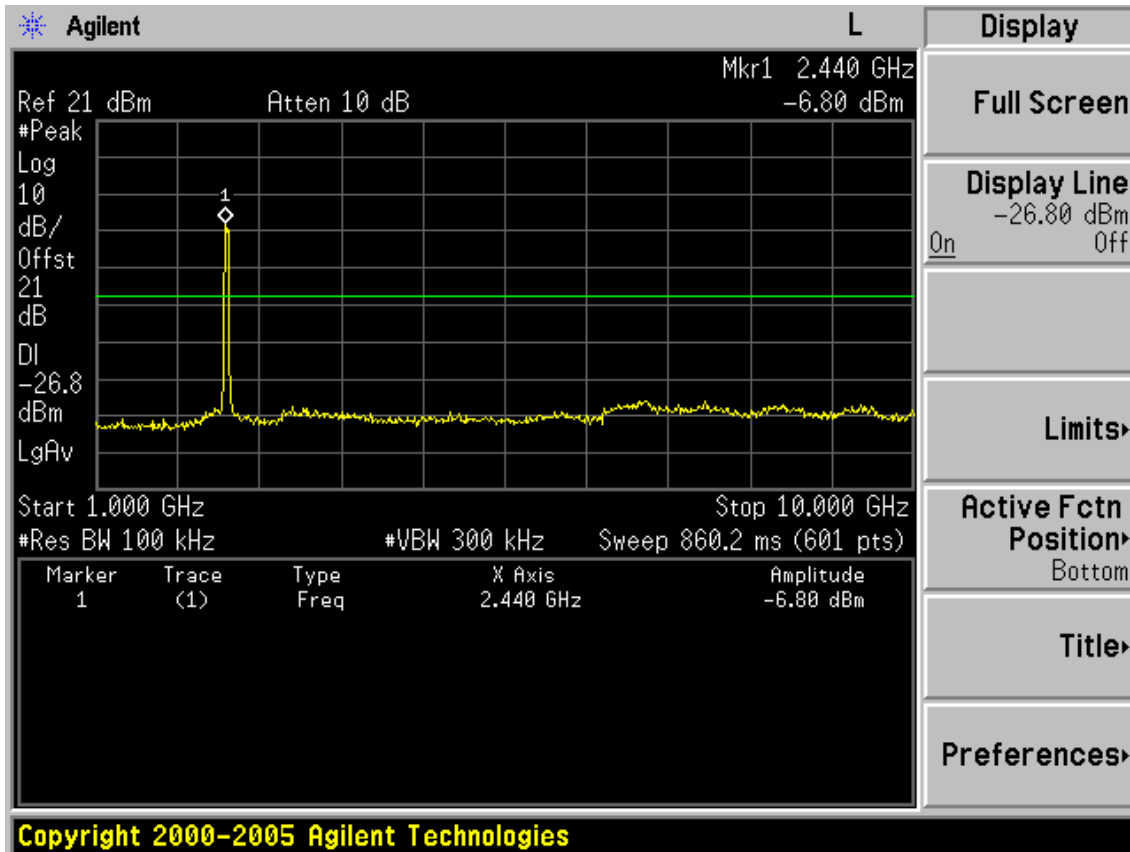
Test CH1: 2422MHz

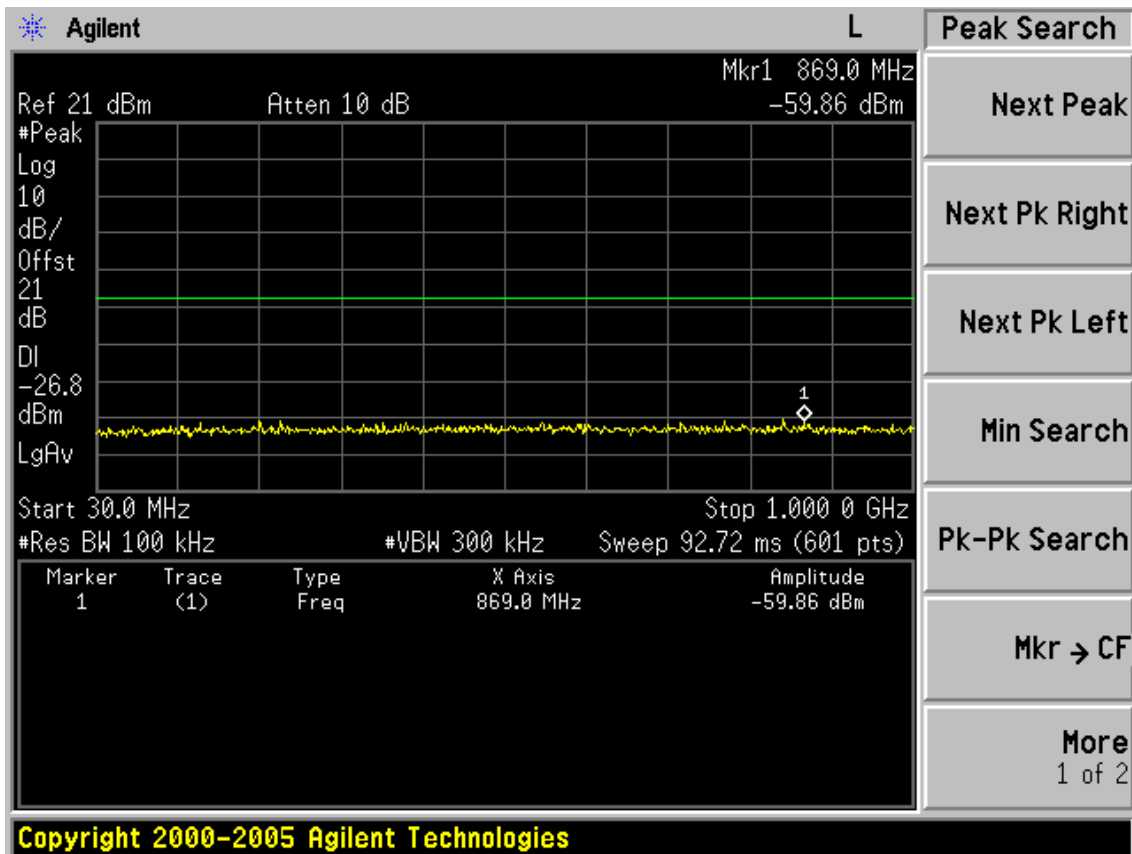
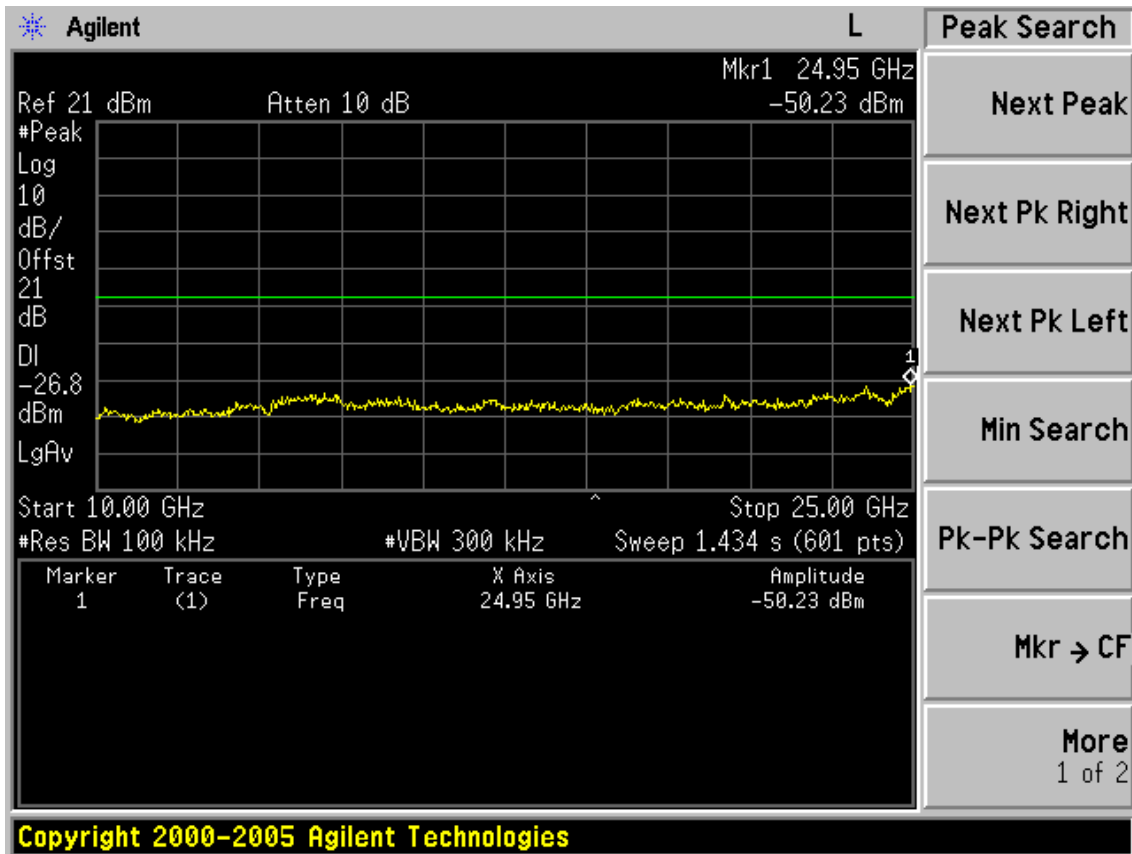




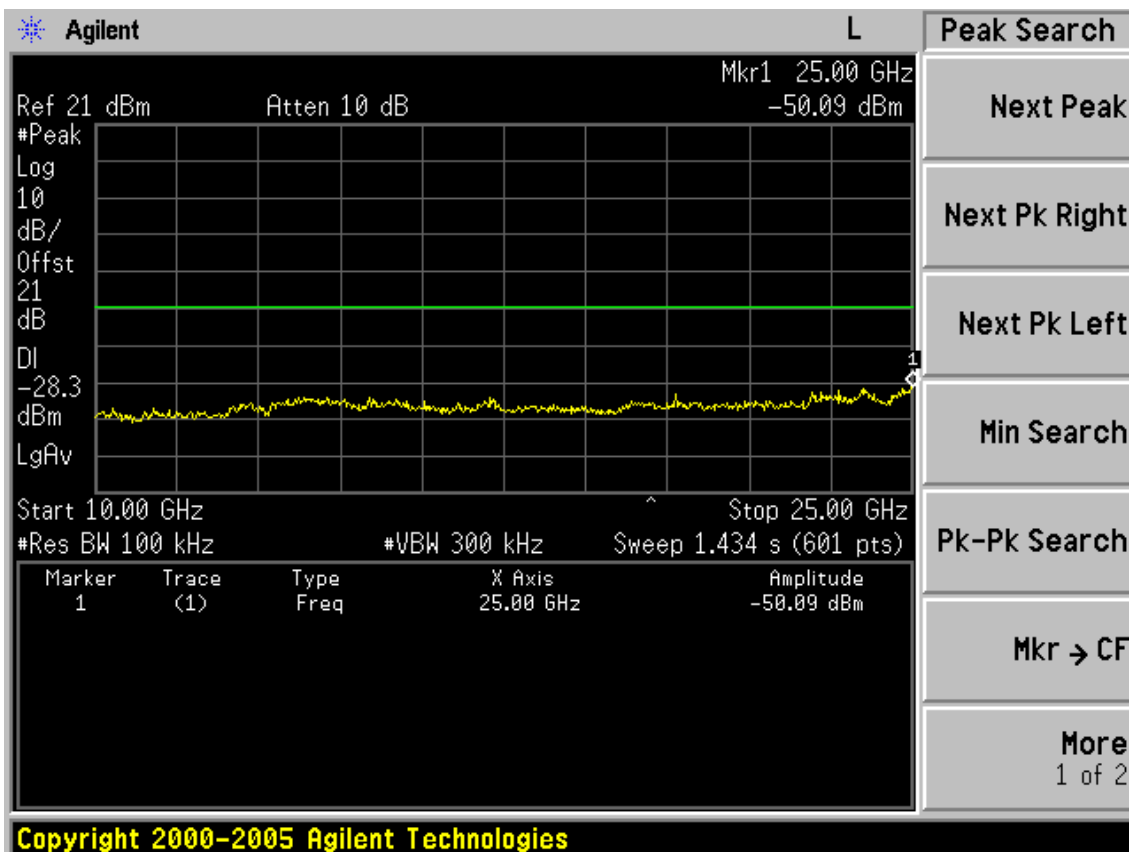
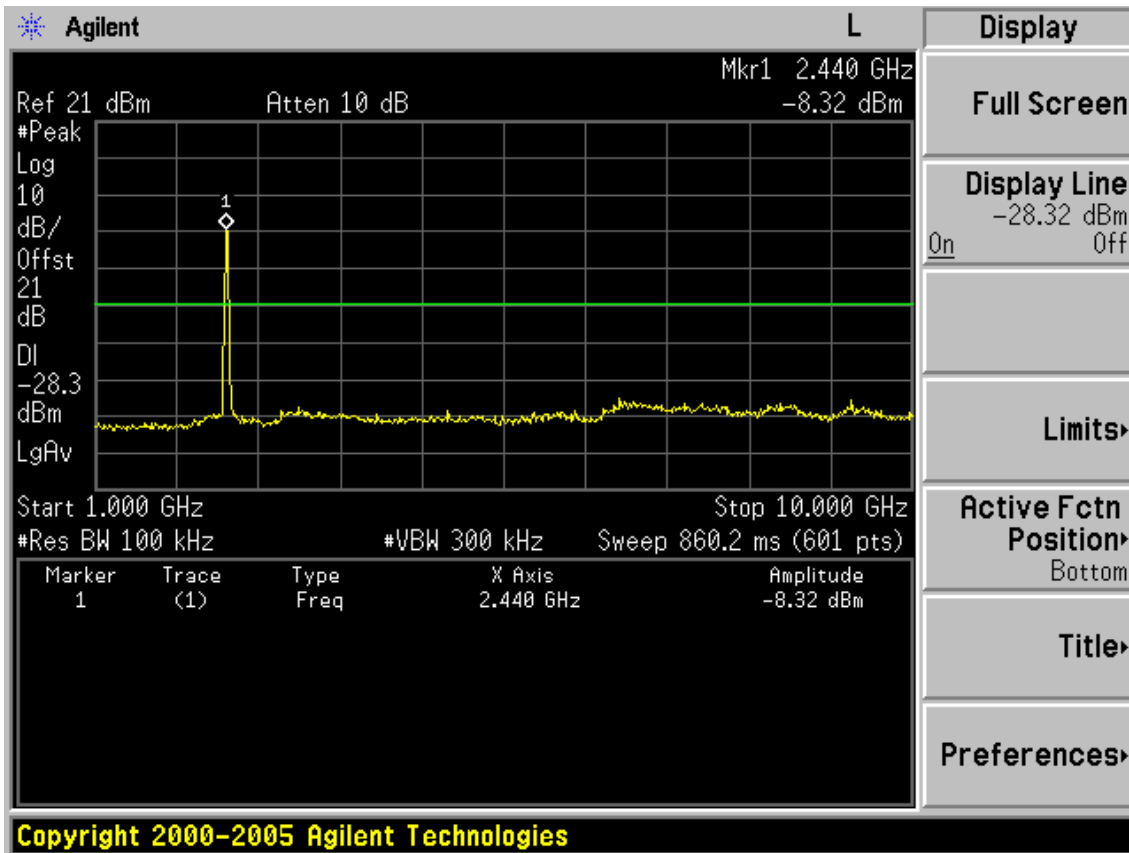


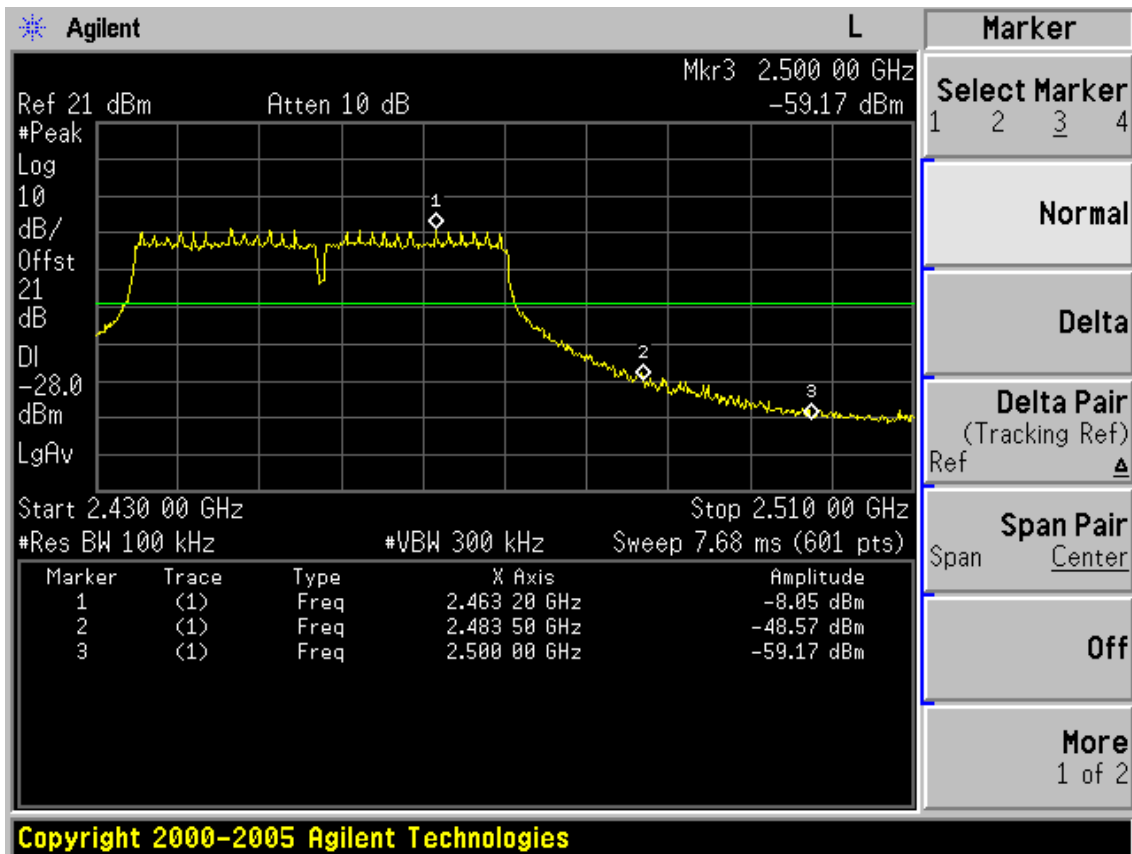
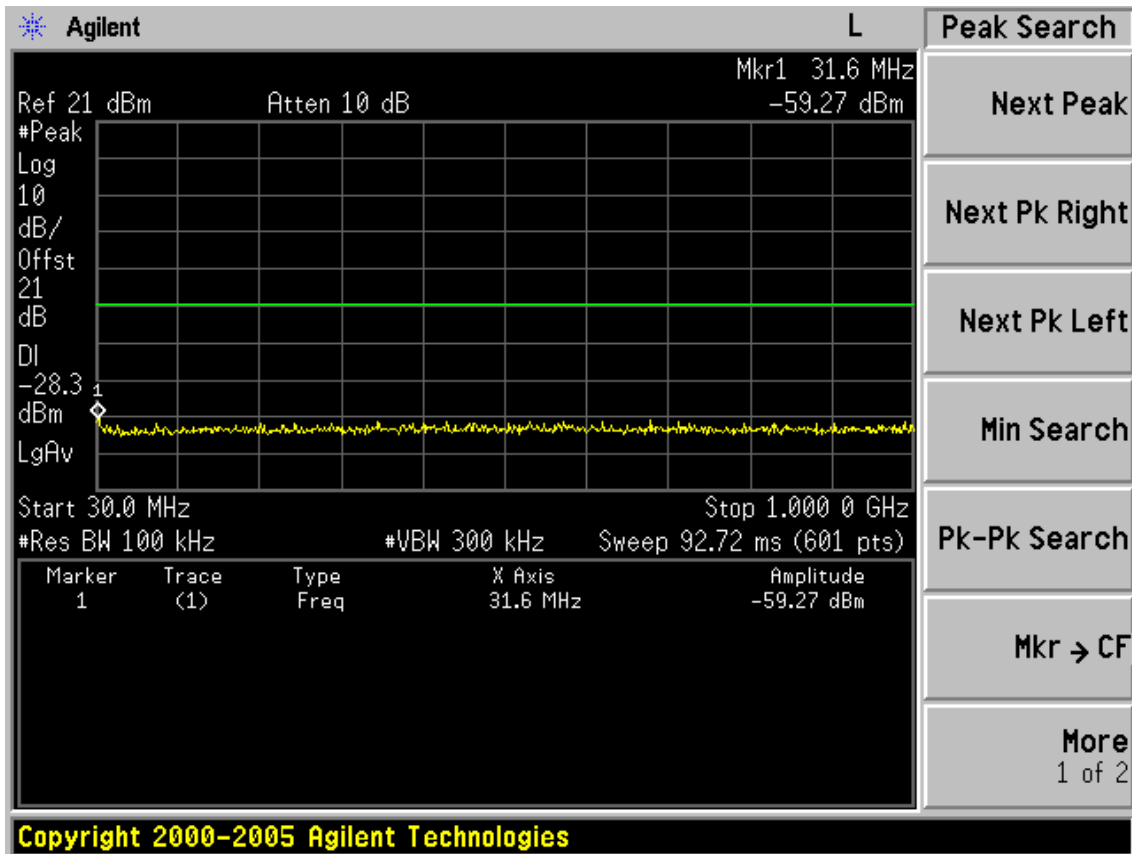
Test CH4: 2437MHz





Test CH7: 2452MHz

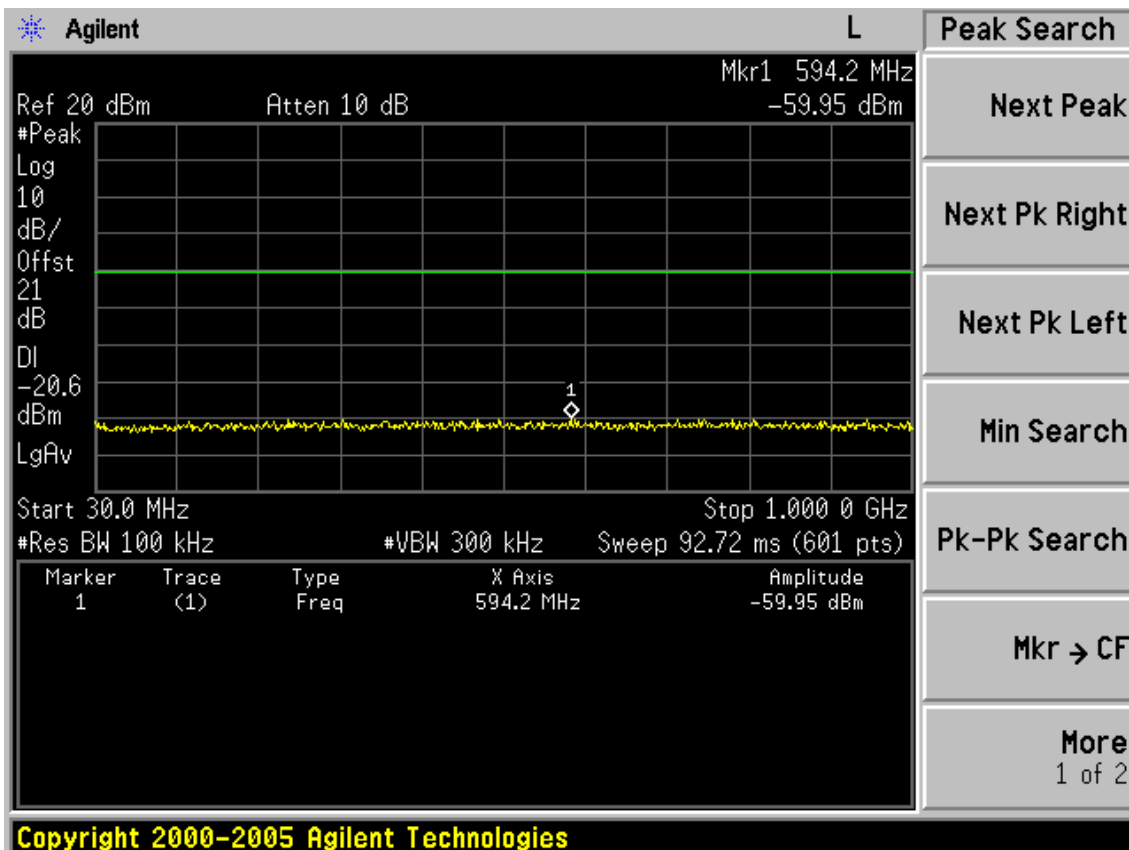
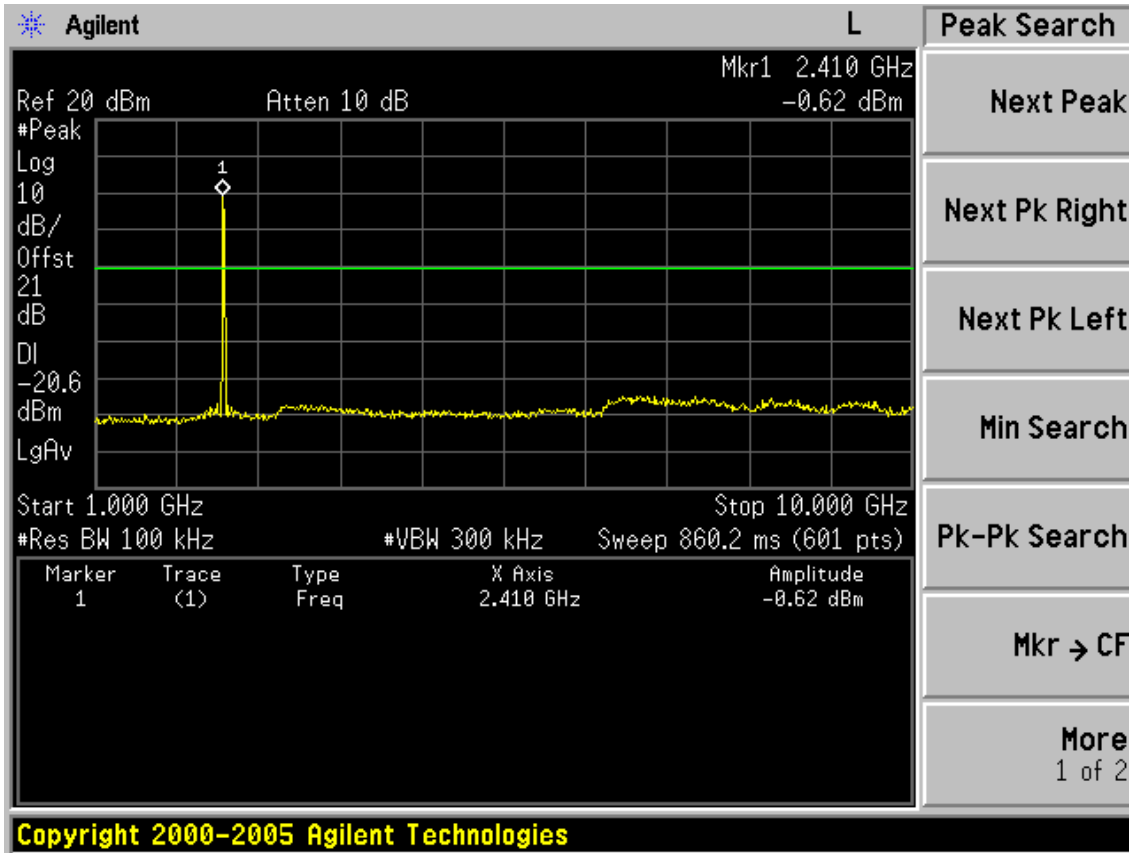


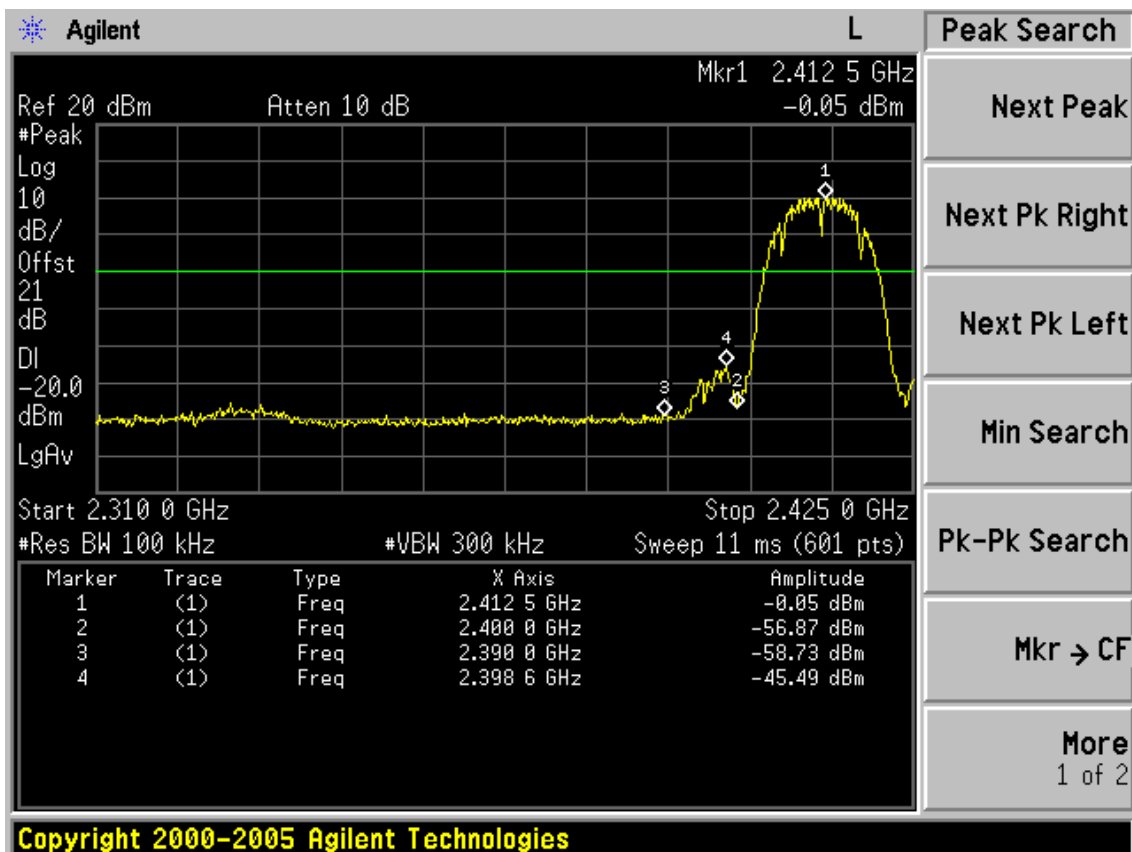
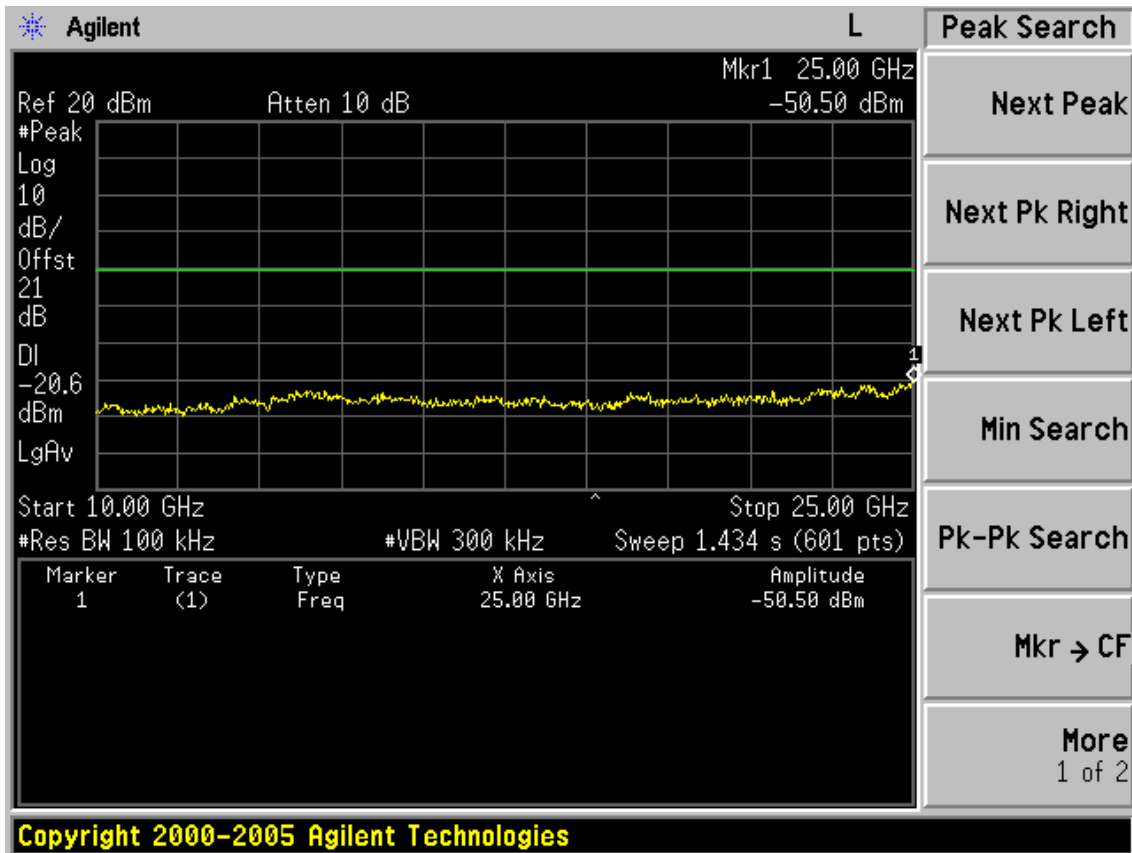


Chain 1:

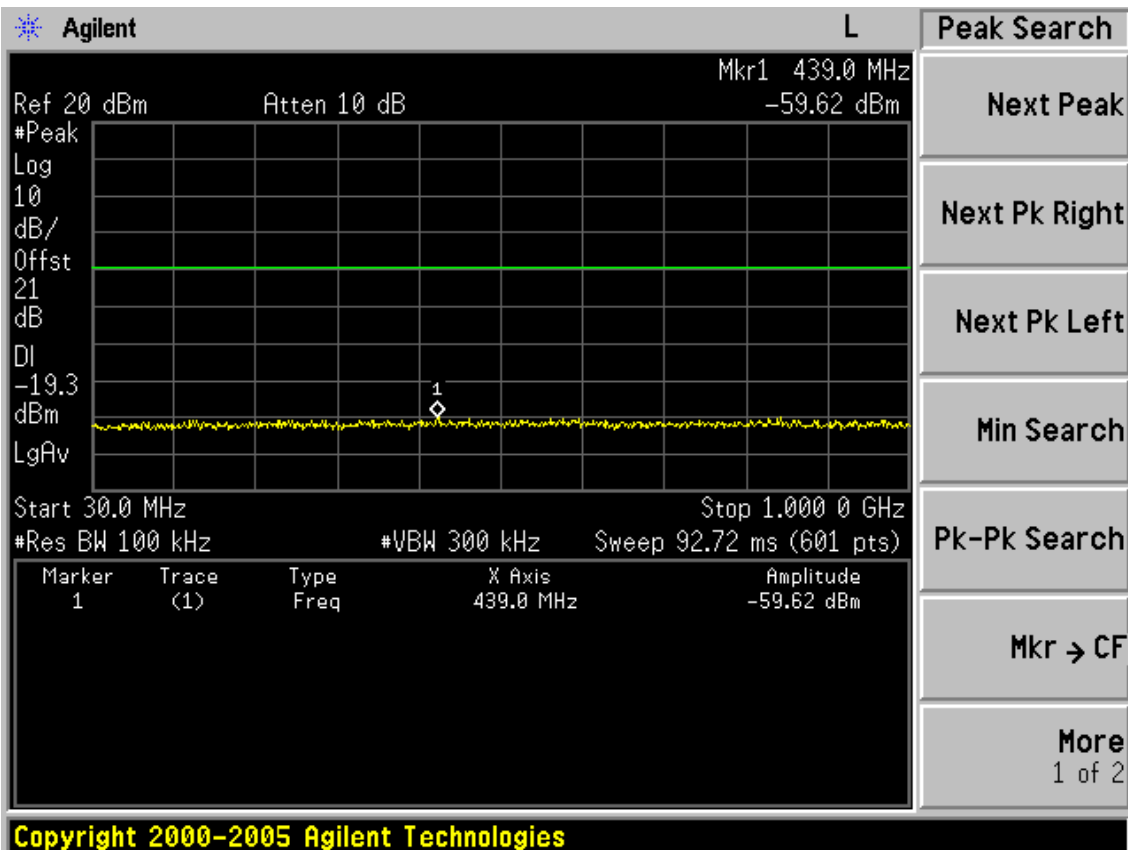
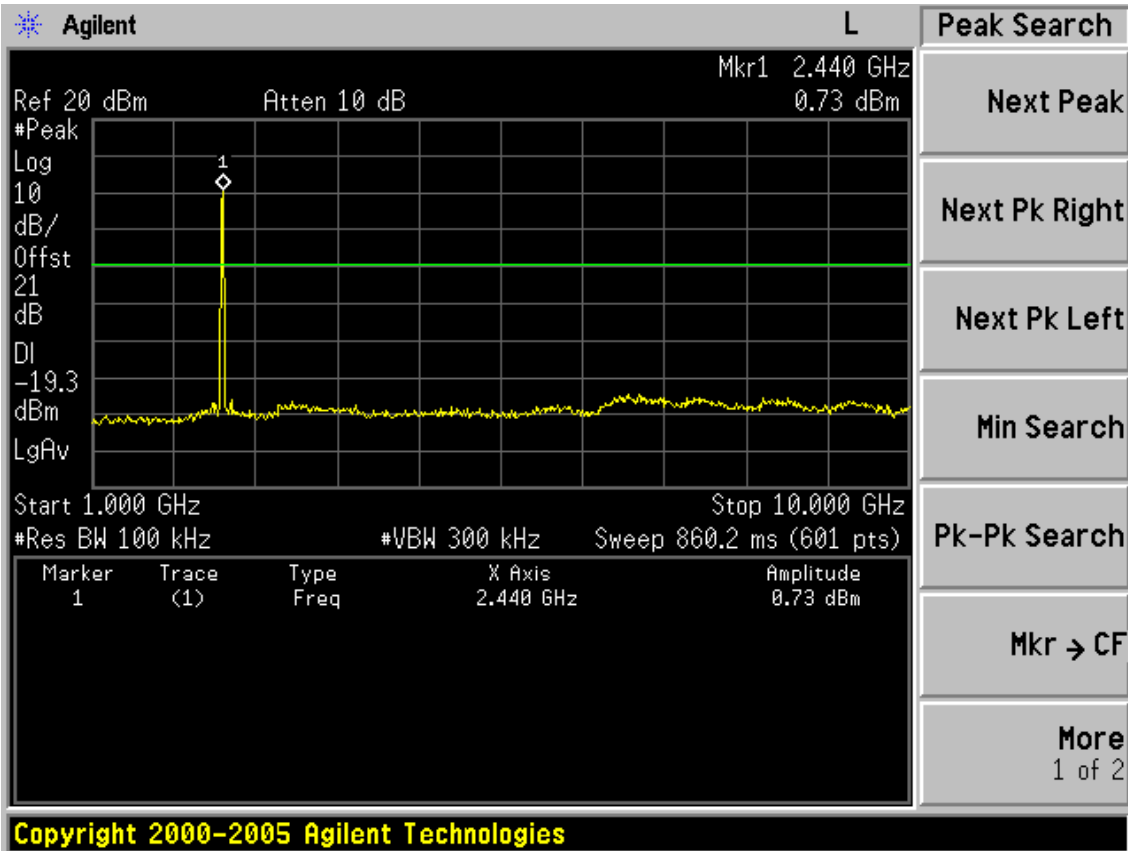
Test Mode: IEEE 802.11b TX

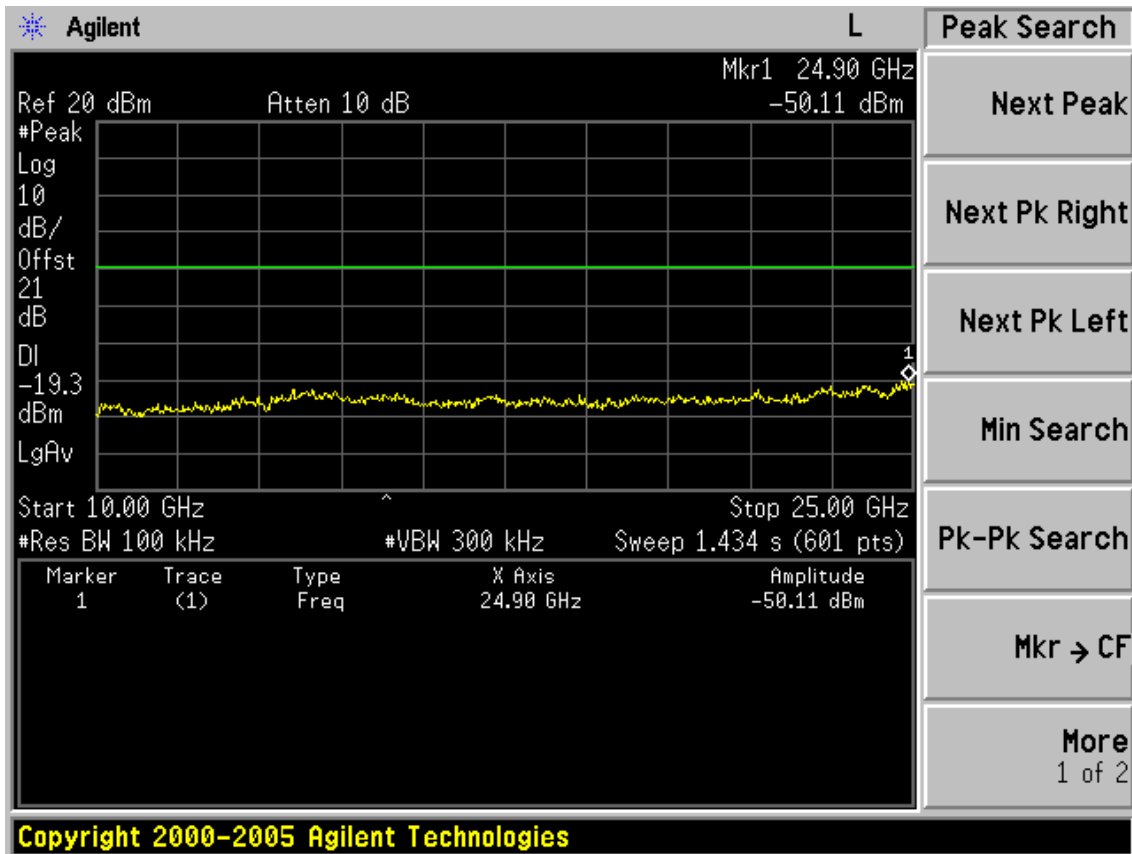
Test CH1: 2412MHz



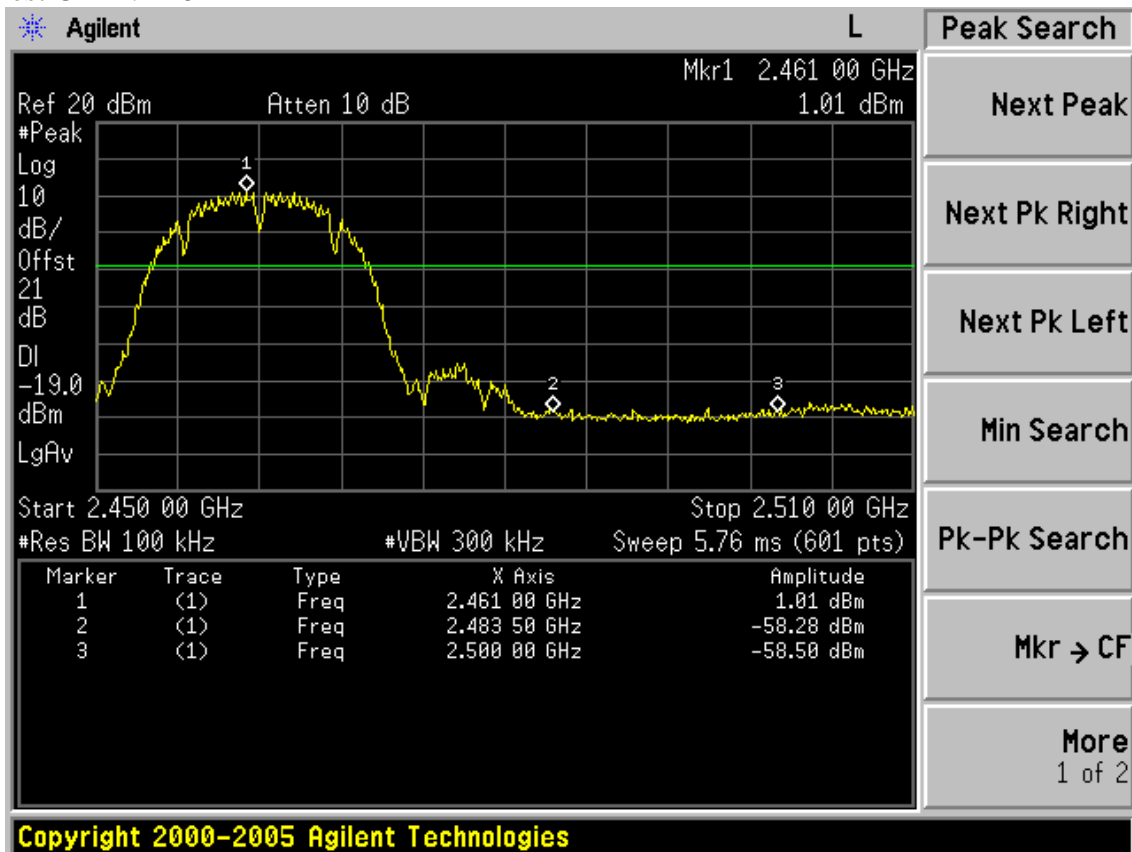


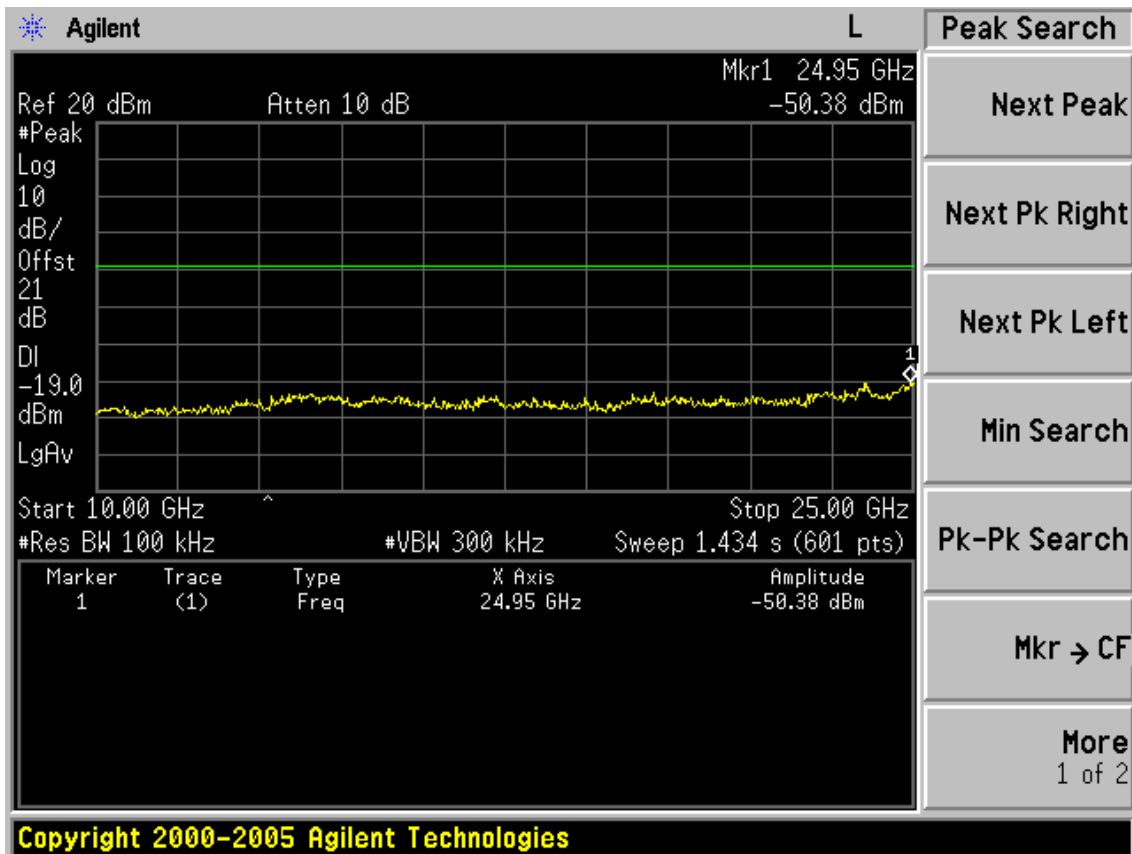
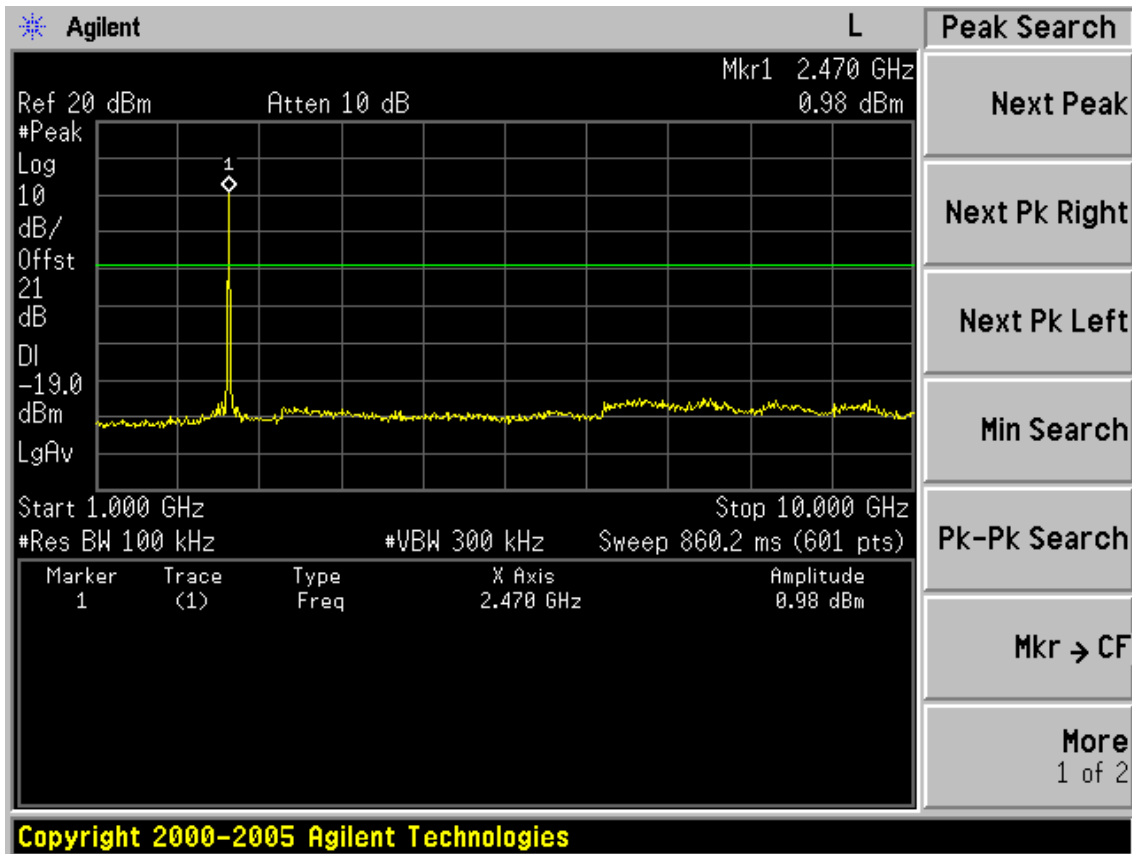
Test CH6: 2437MHz

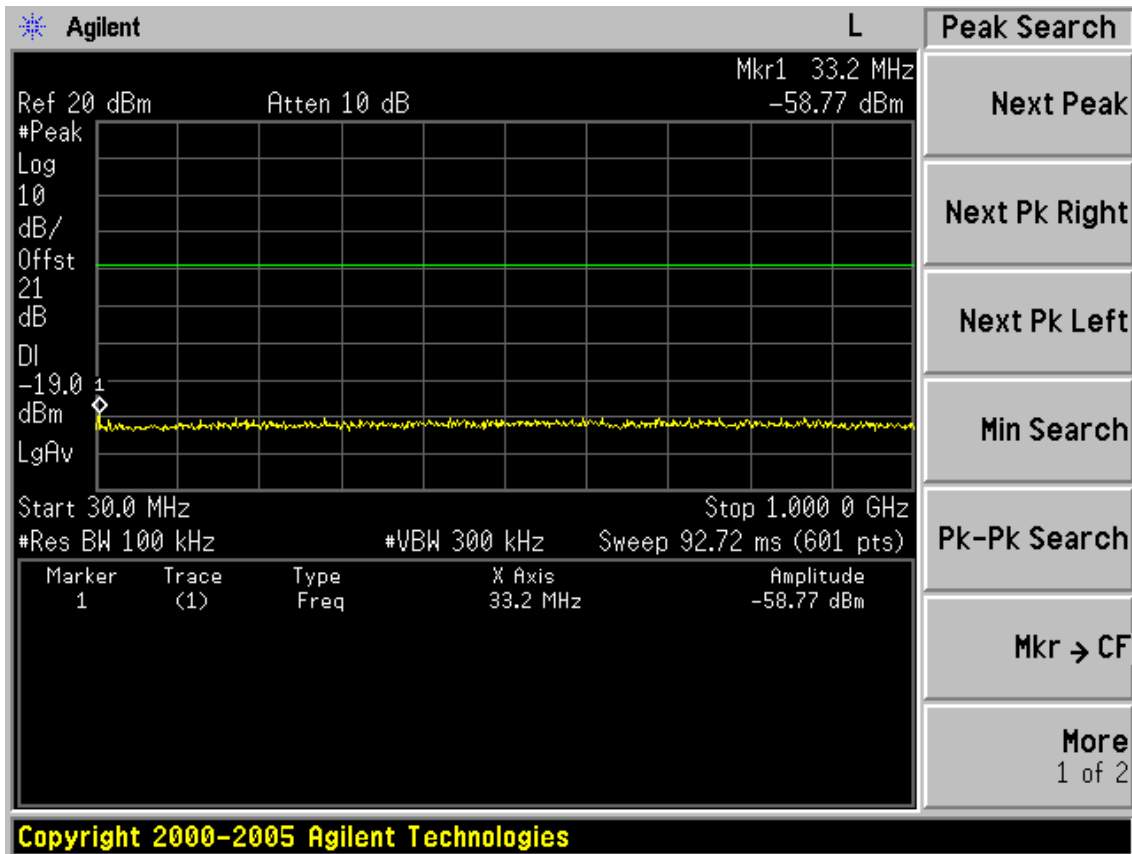




Test CH11: 2462MHz

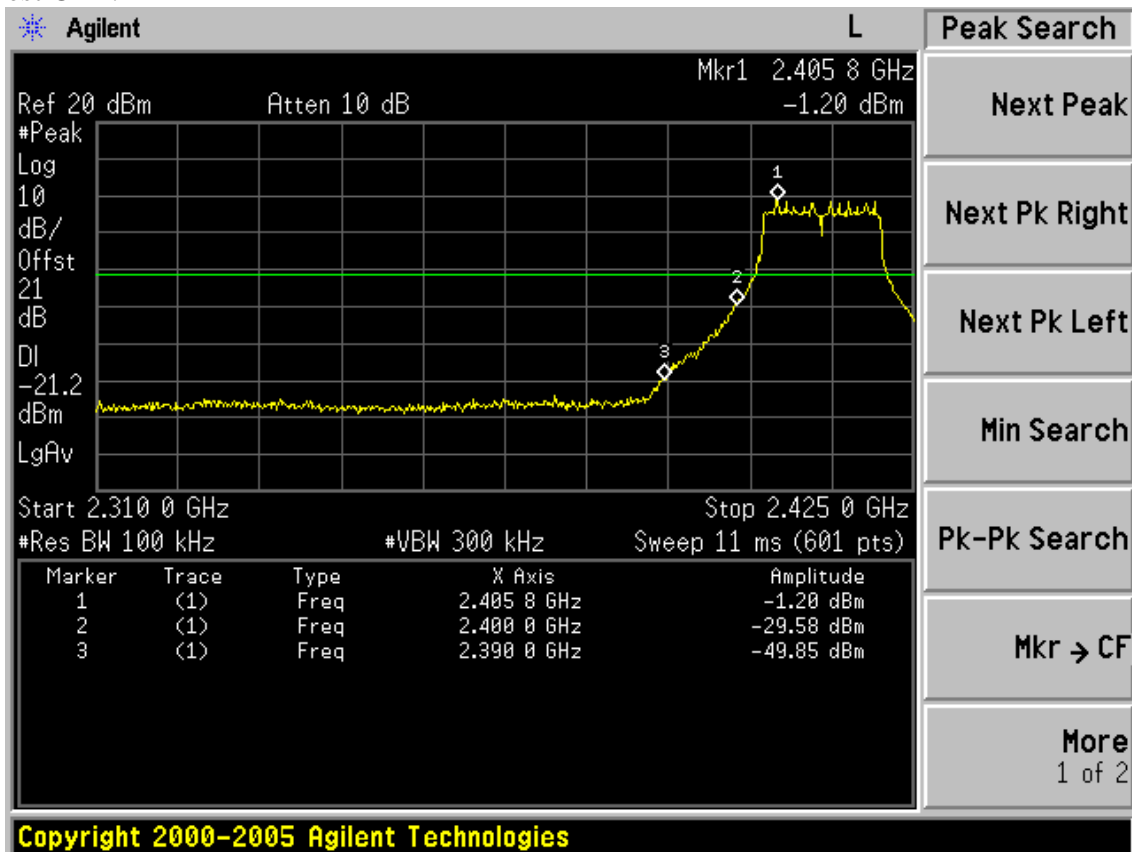


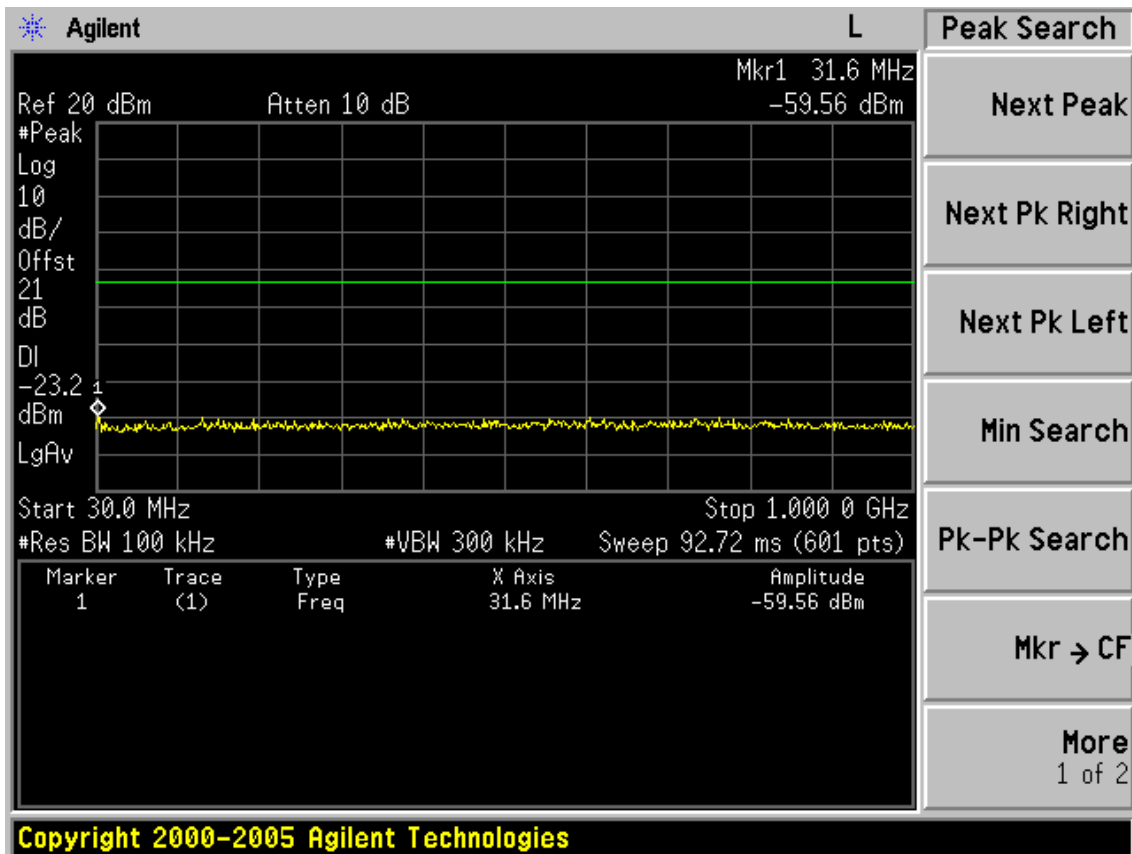
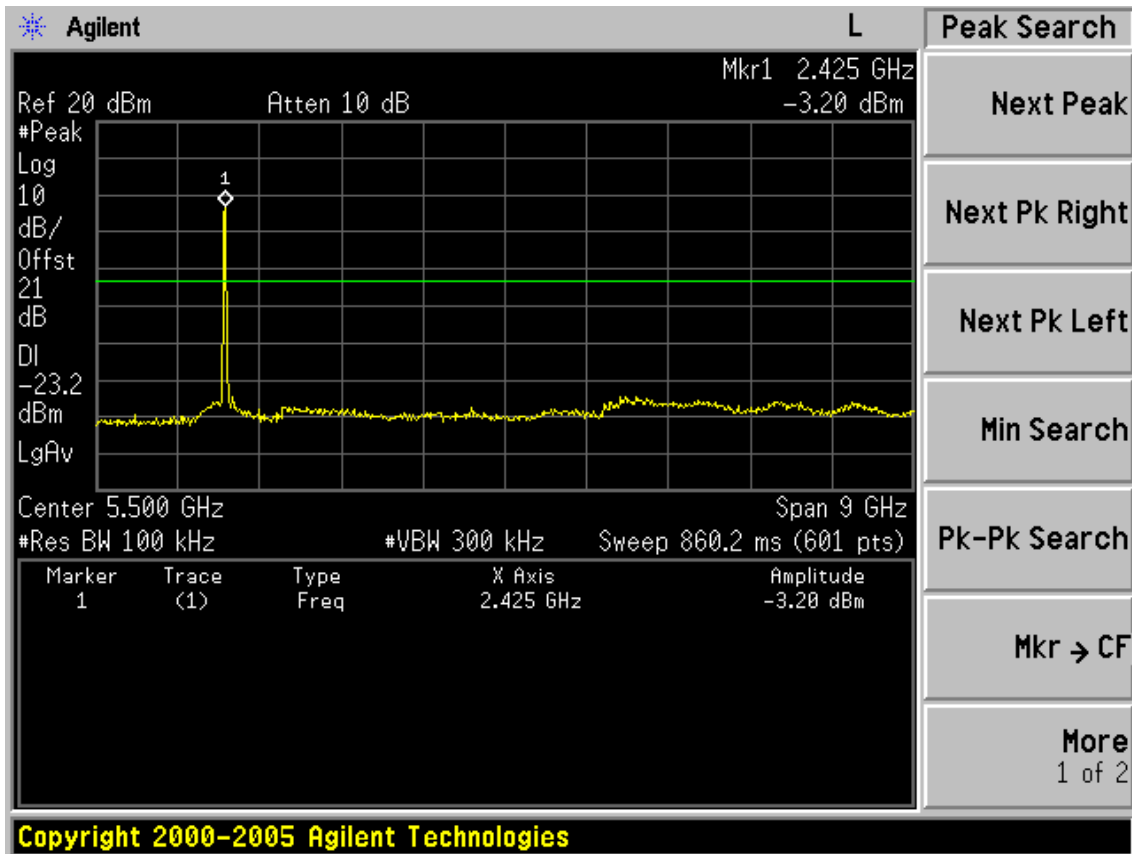


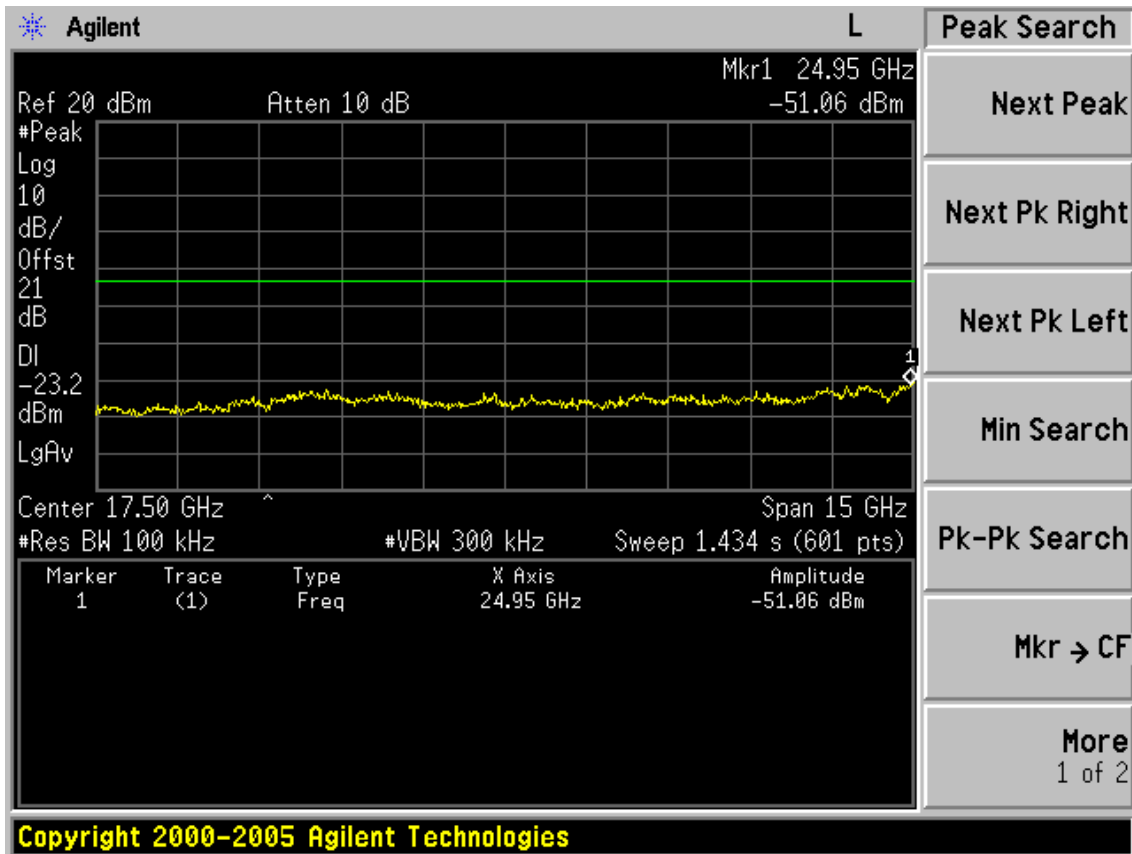


Test Mode: IEEE 802.11g TX

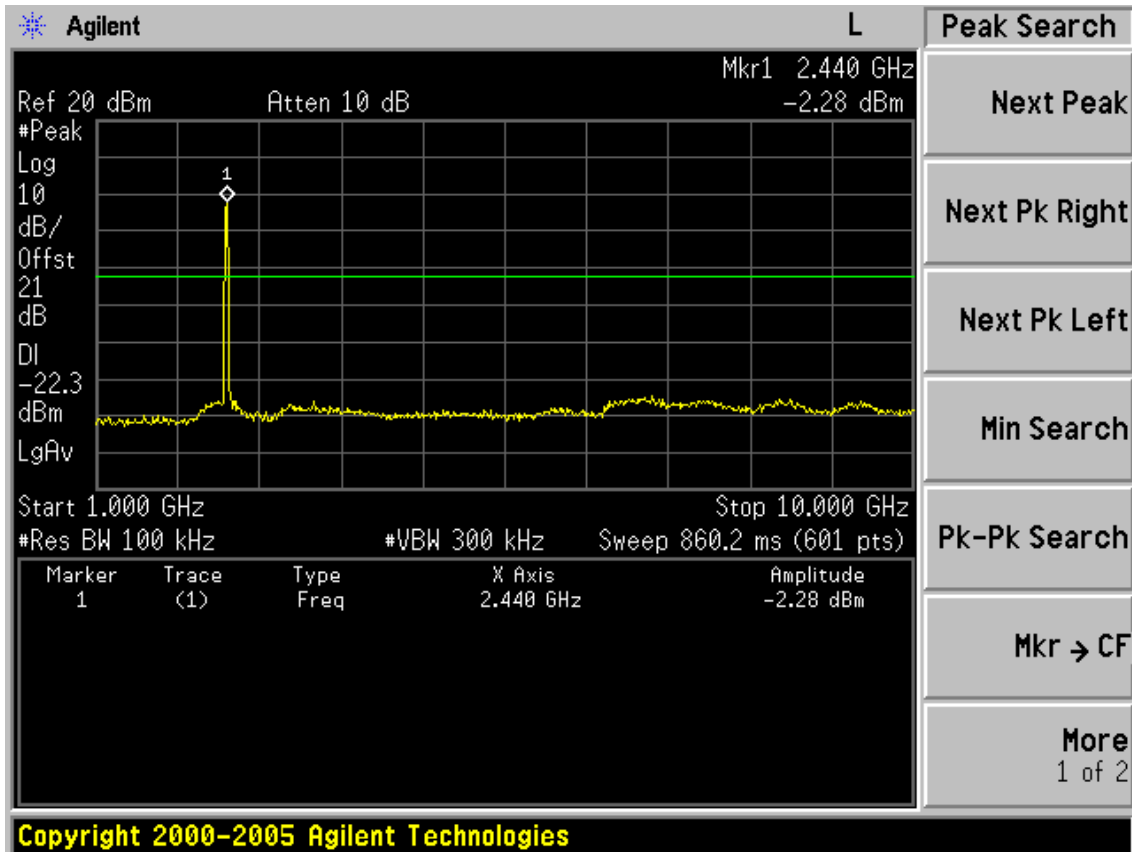
Test CH1: 2412MHz

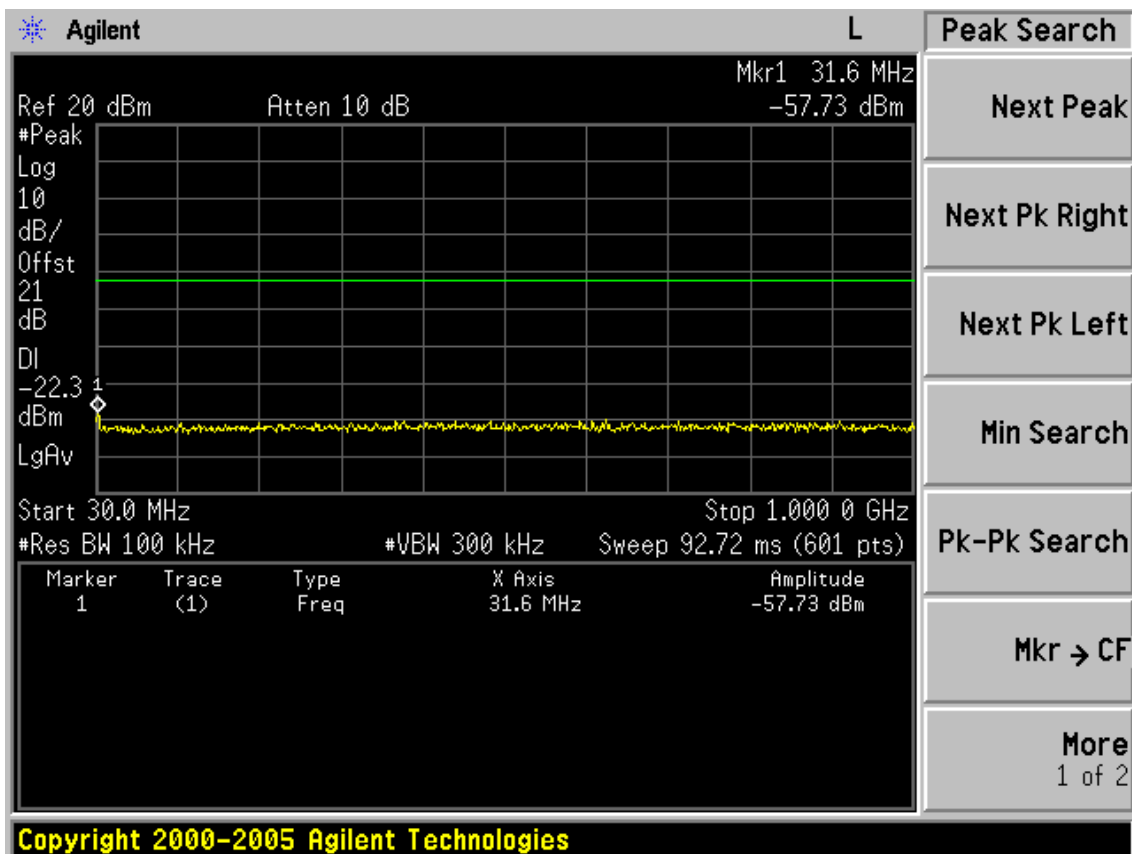
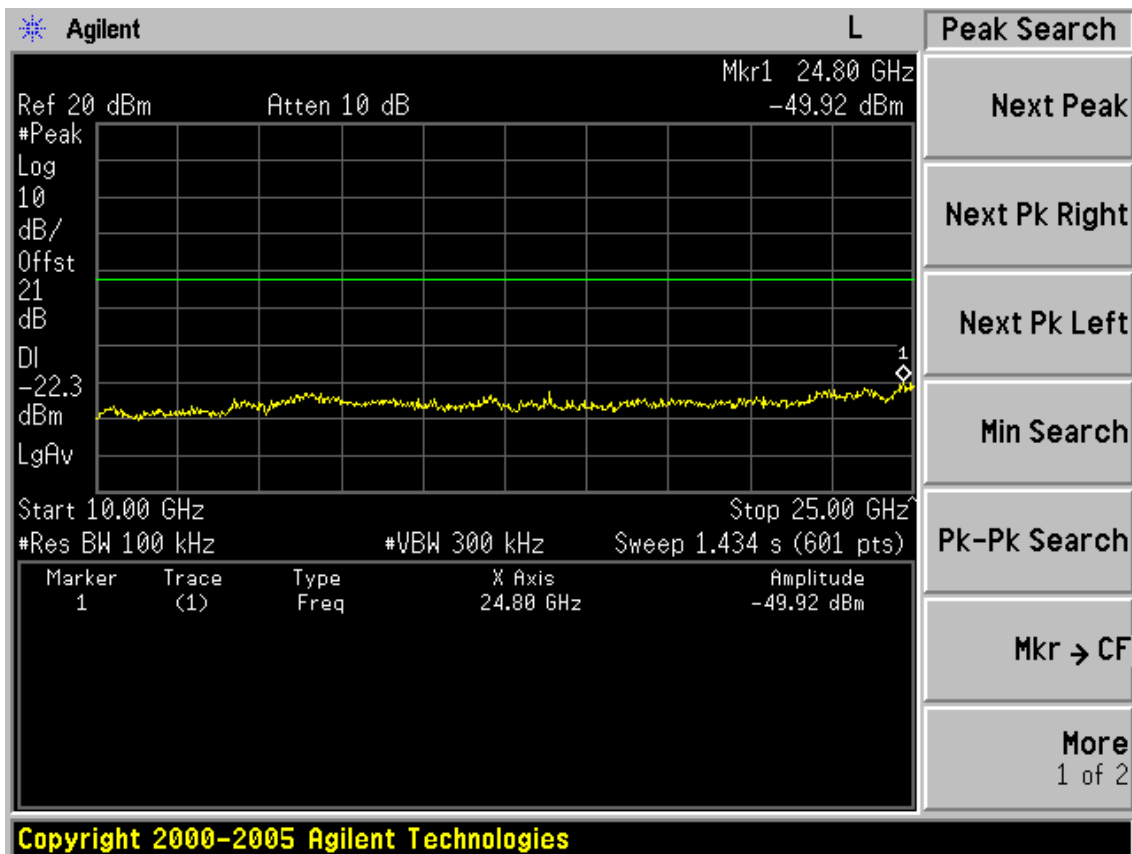




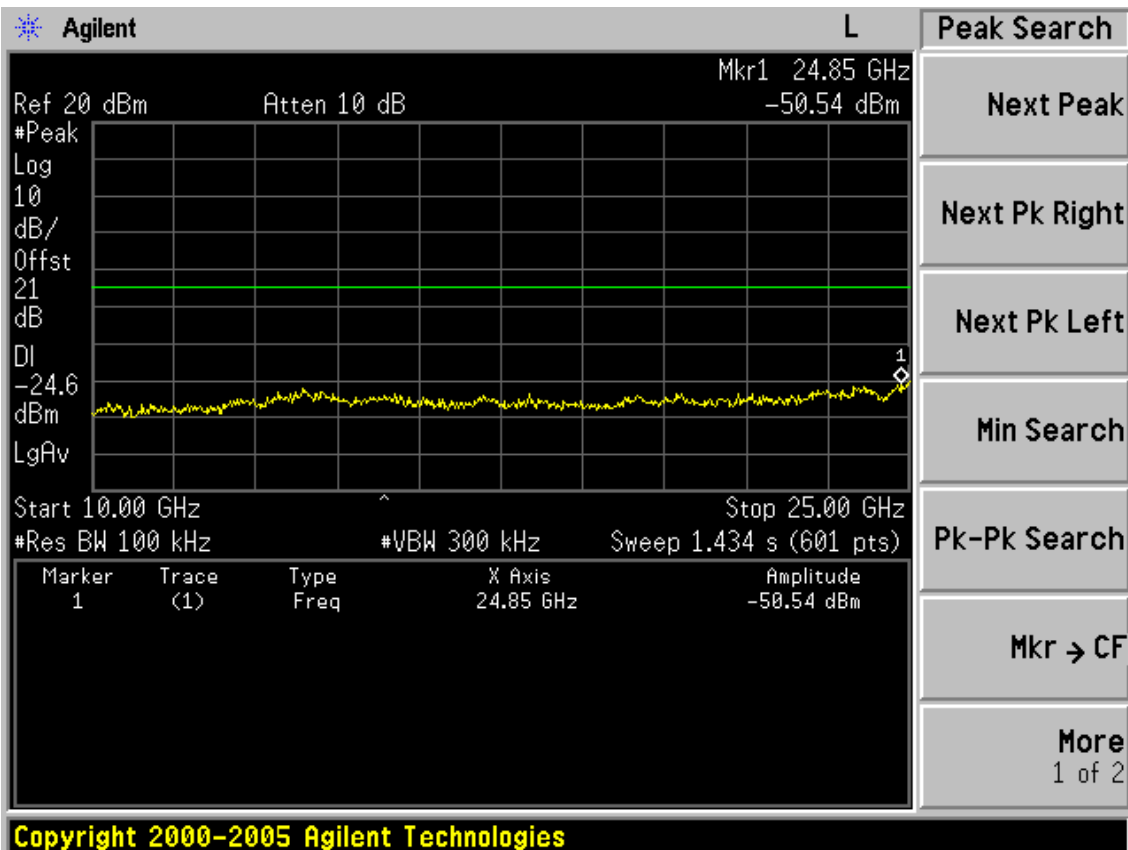
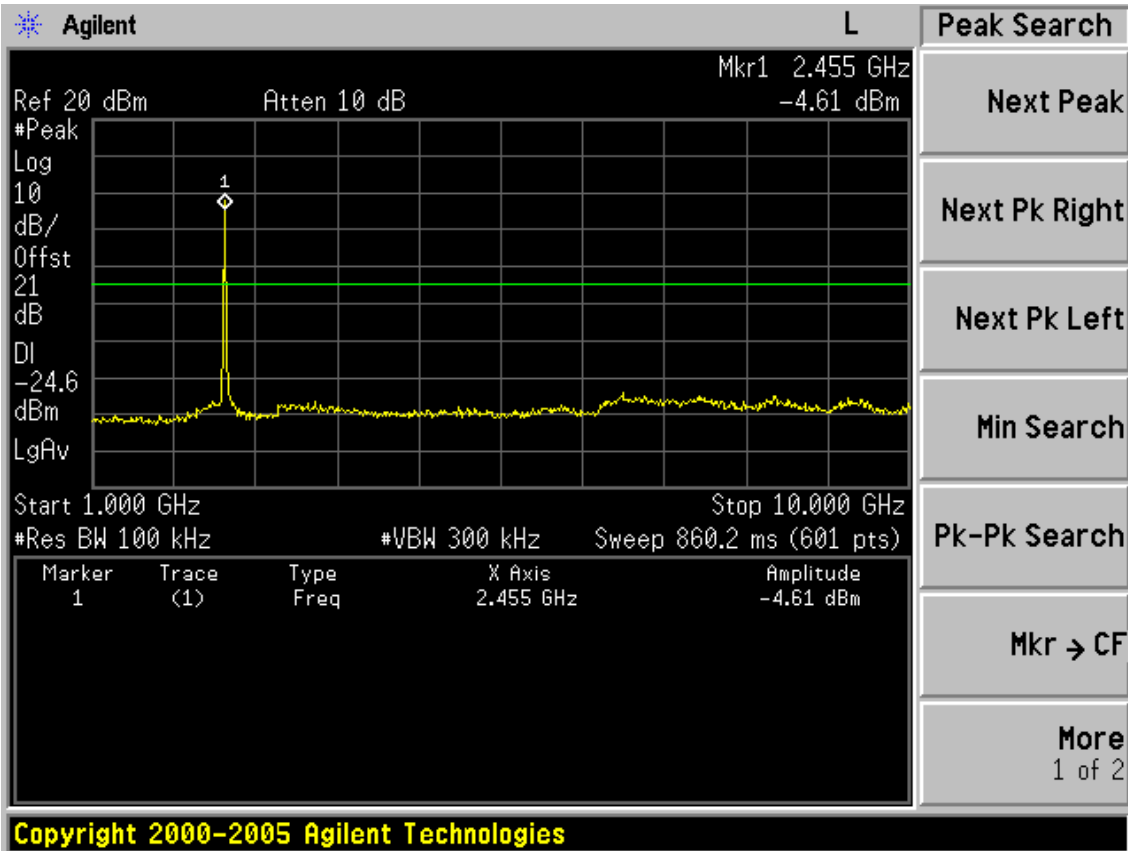


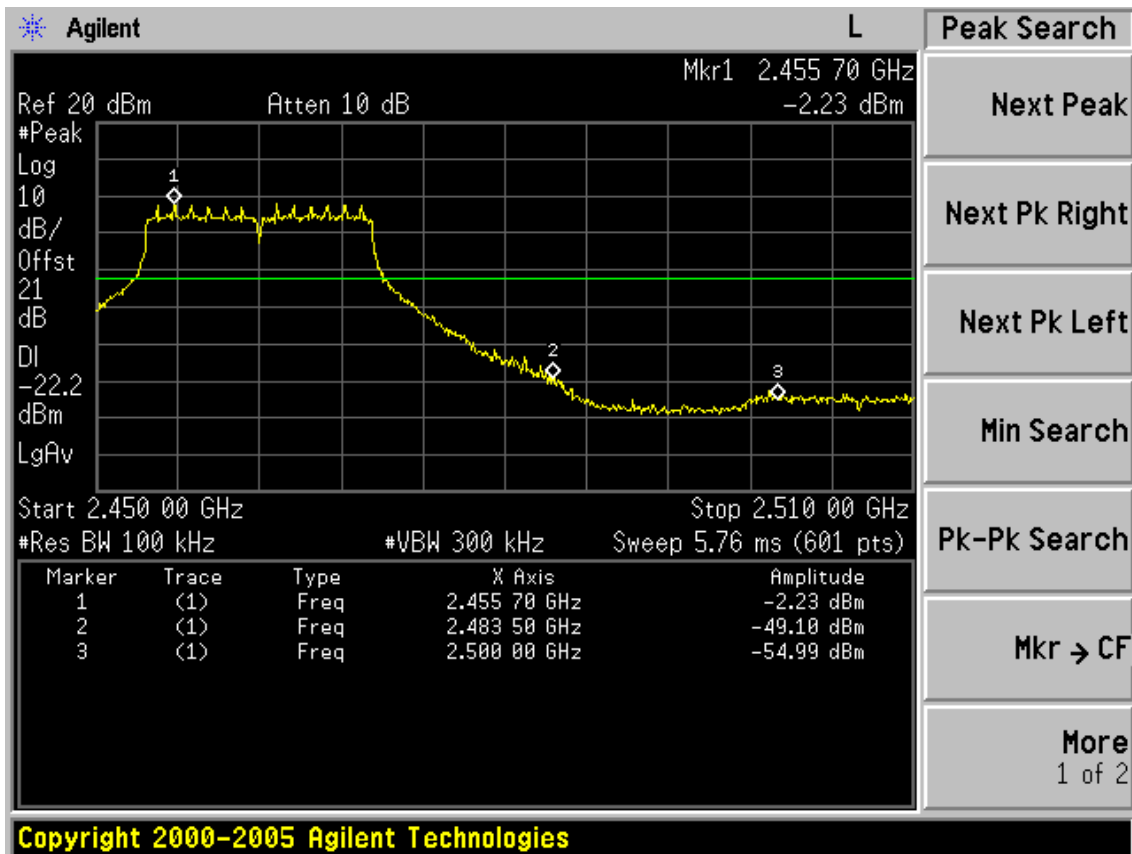
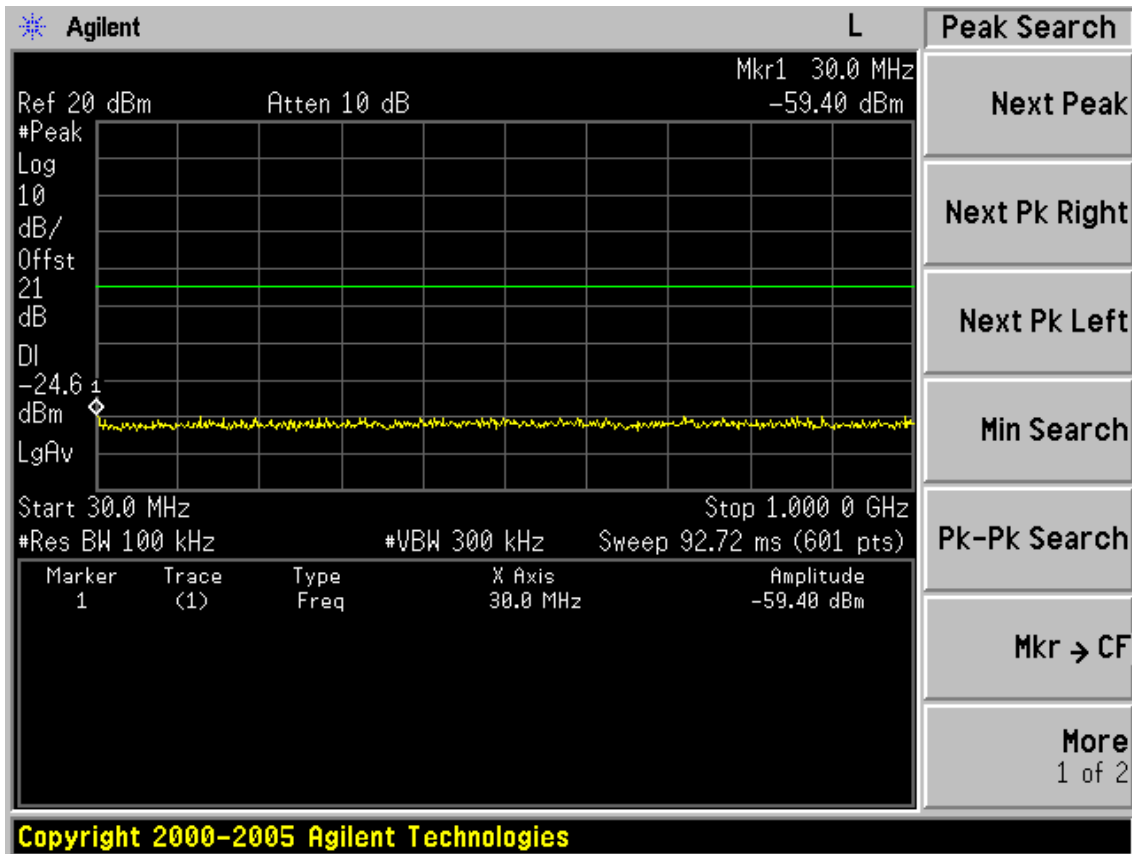
Test CH6: 2437MHz





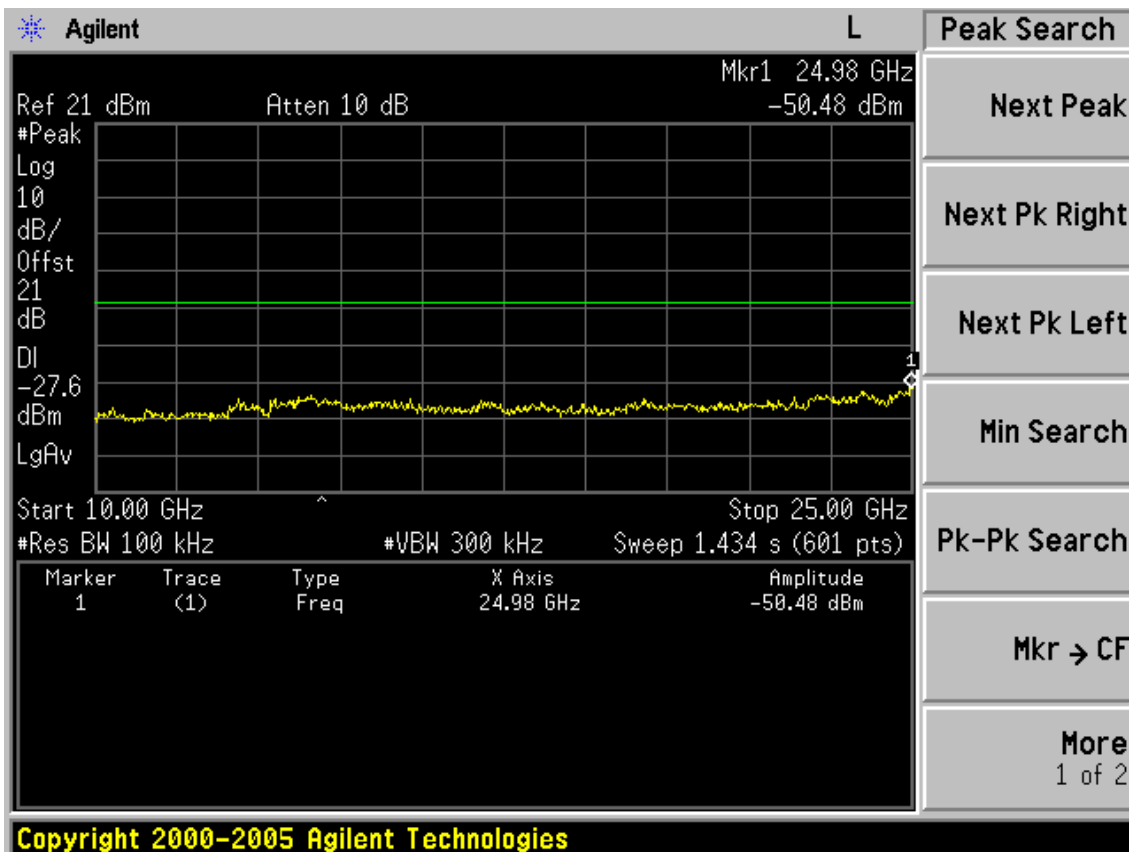
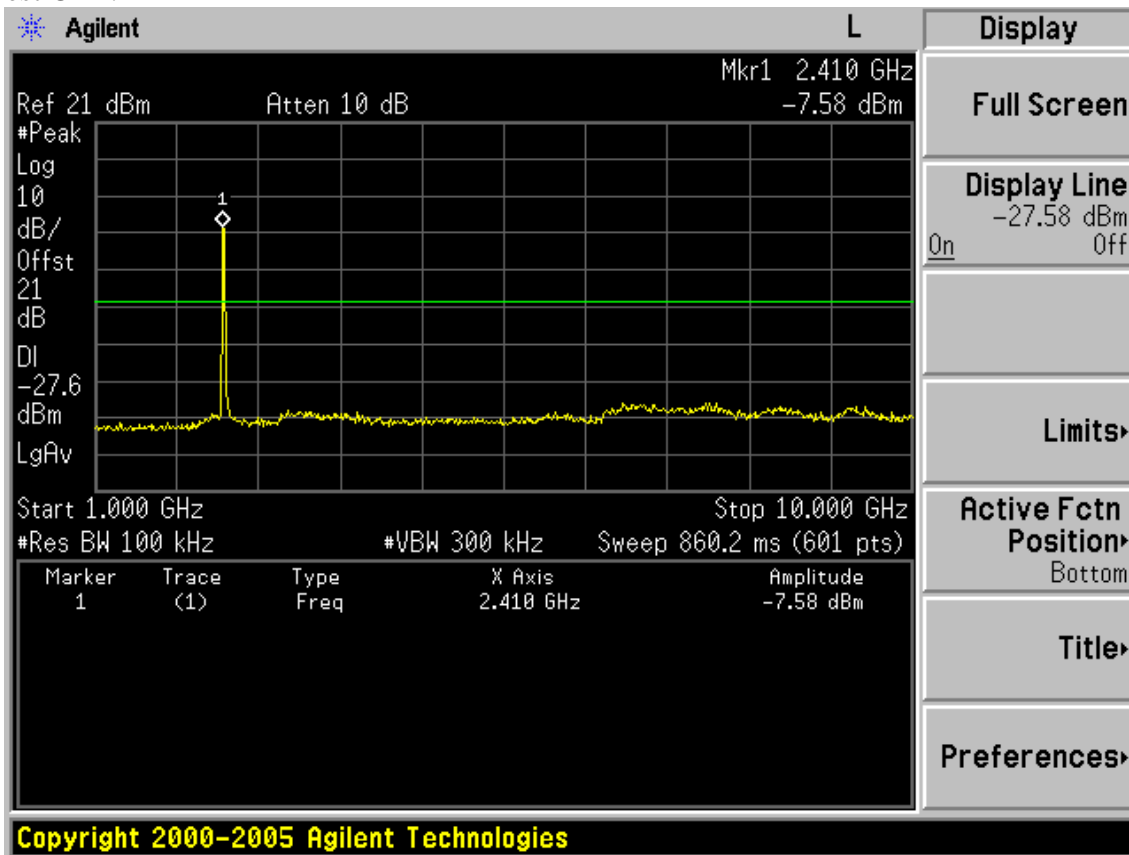
Test CH11: 2462MHz

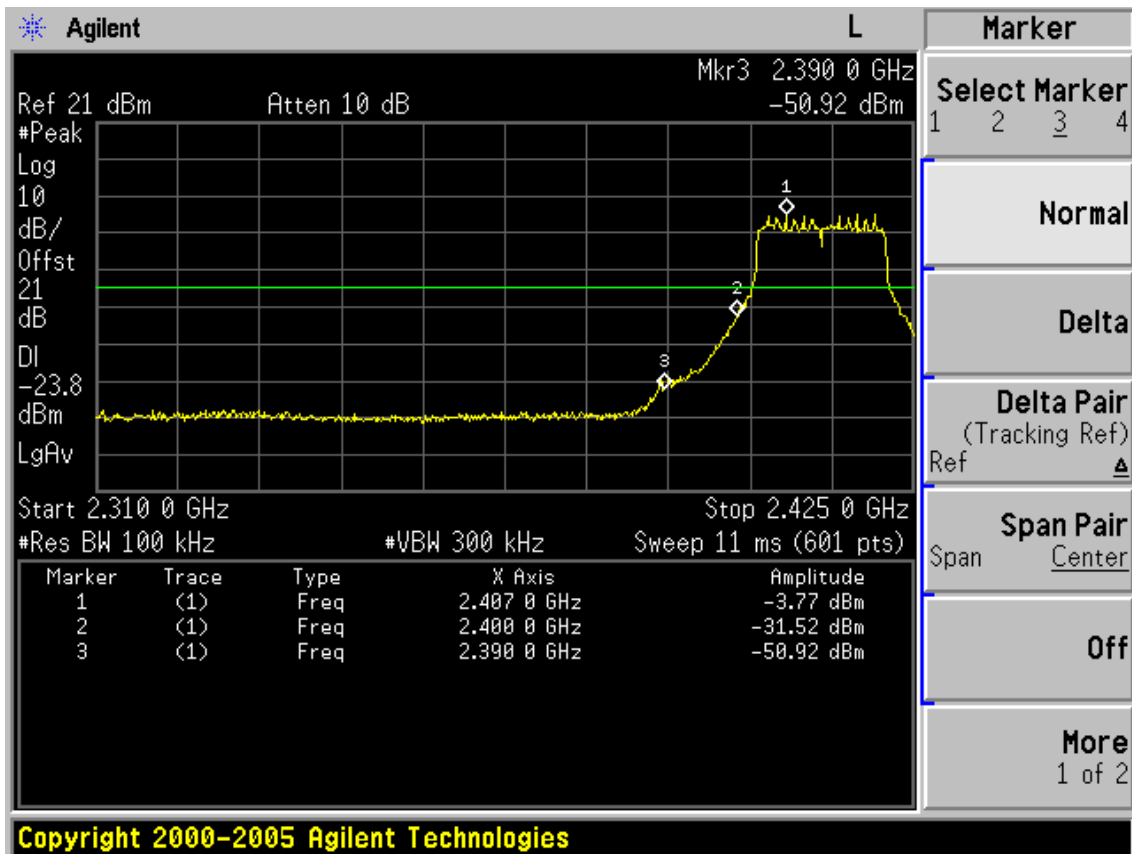
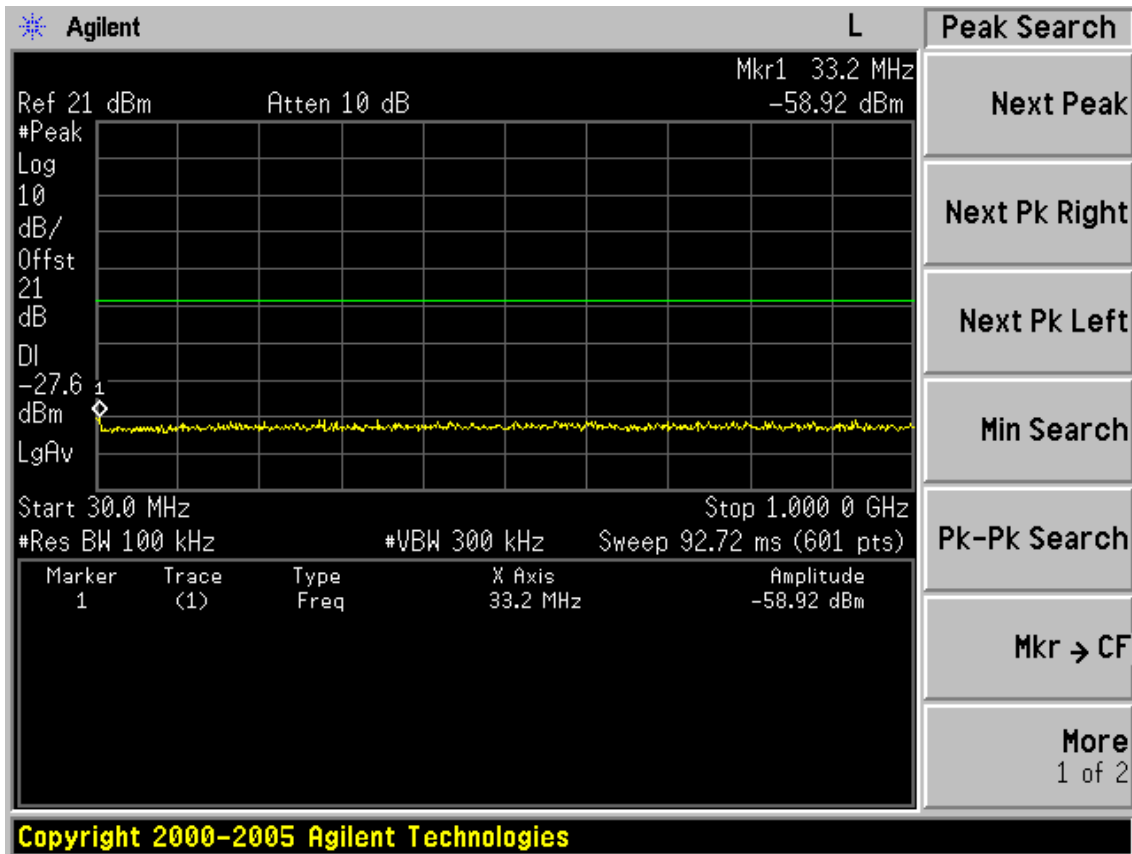




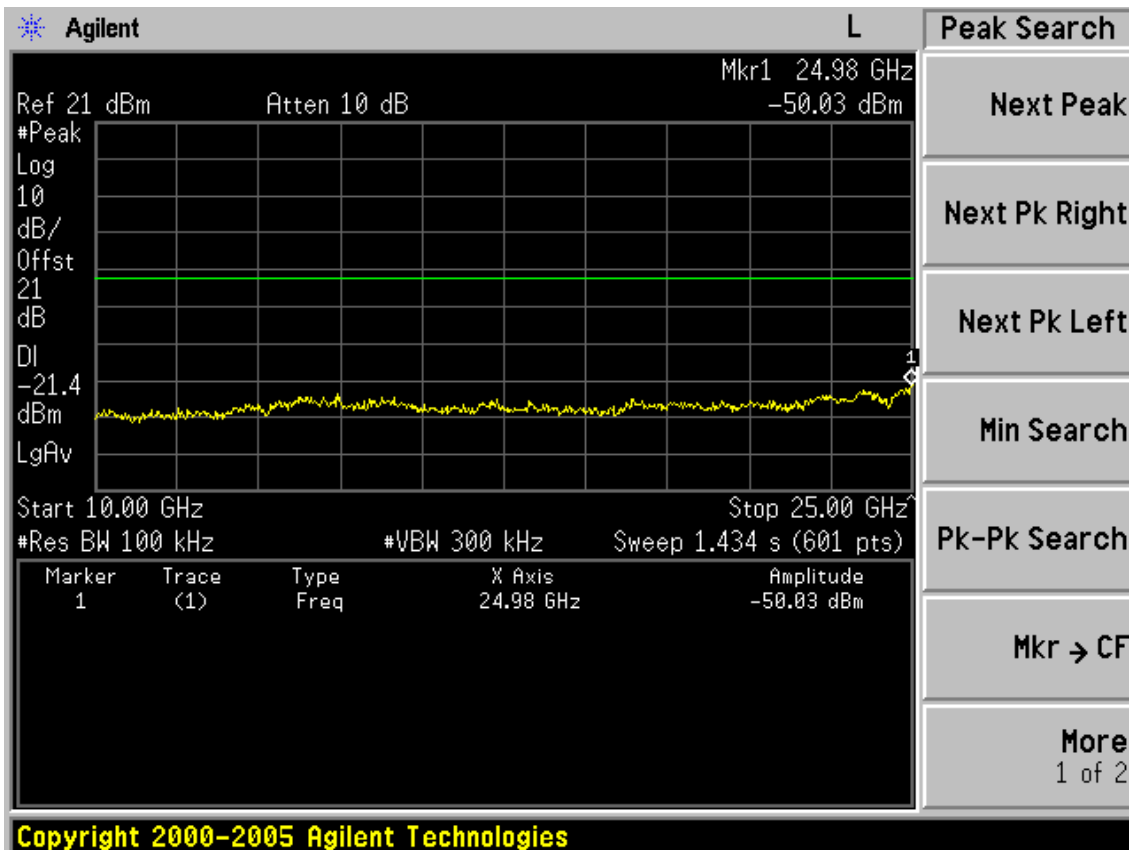
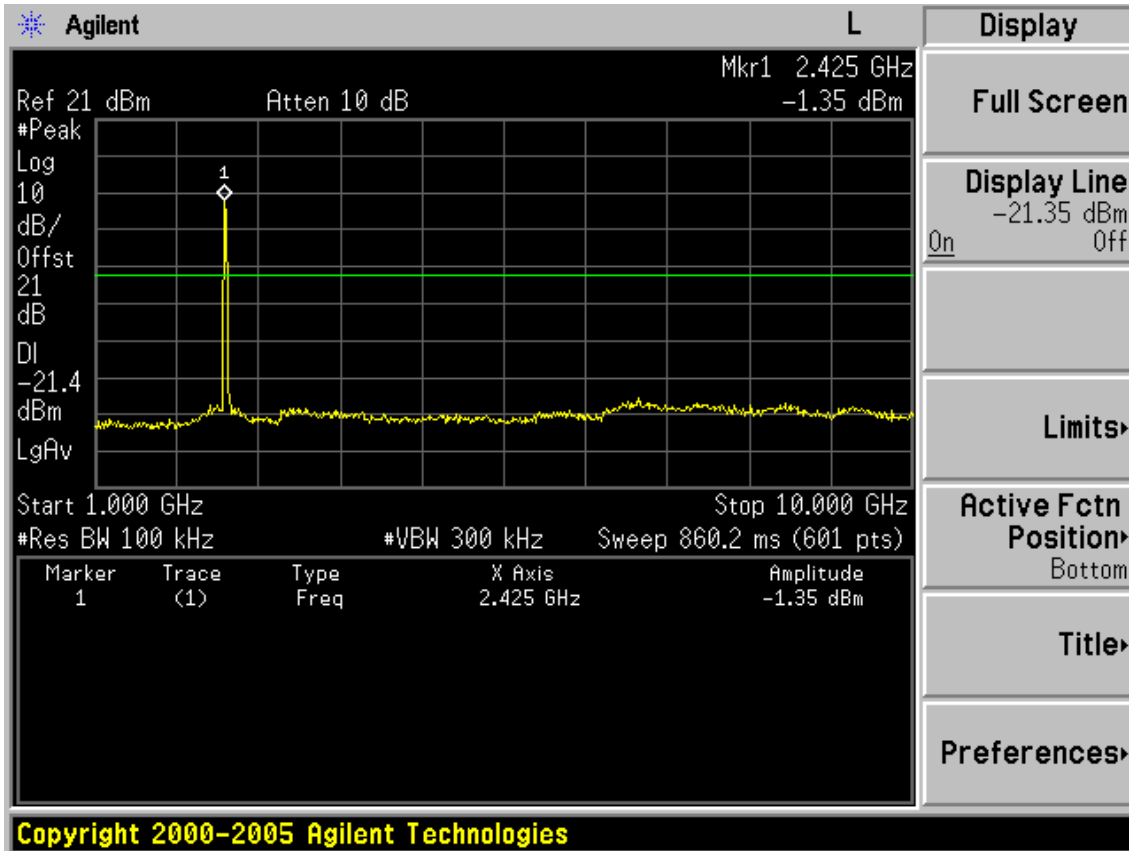
Test Mode: IEEE 802.11n HT20 TX

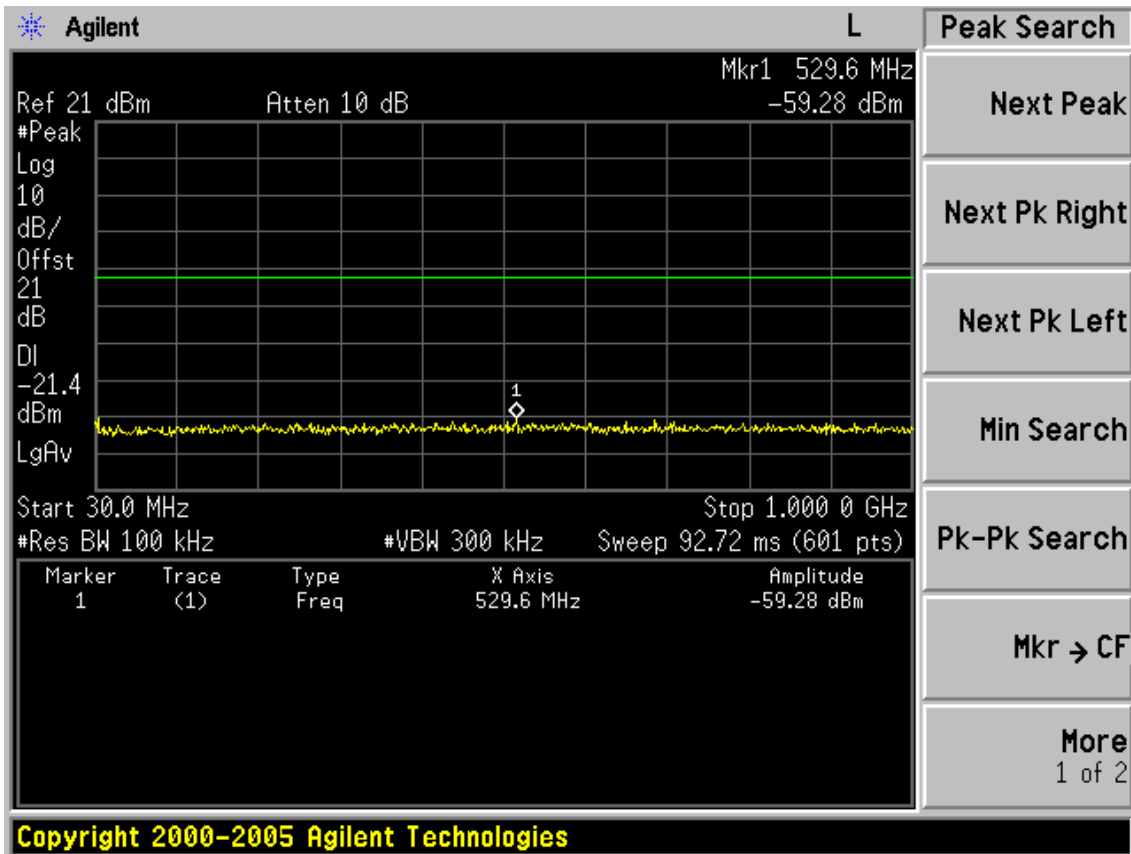
Test CH1: 2412MHz



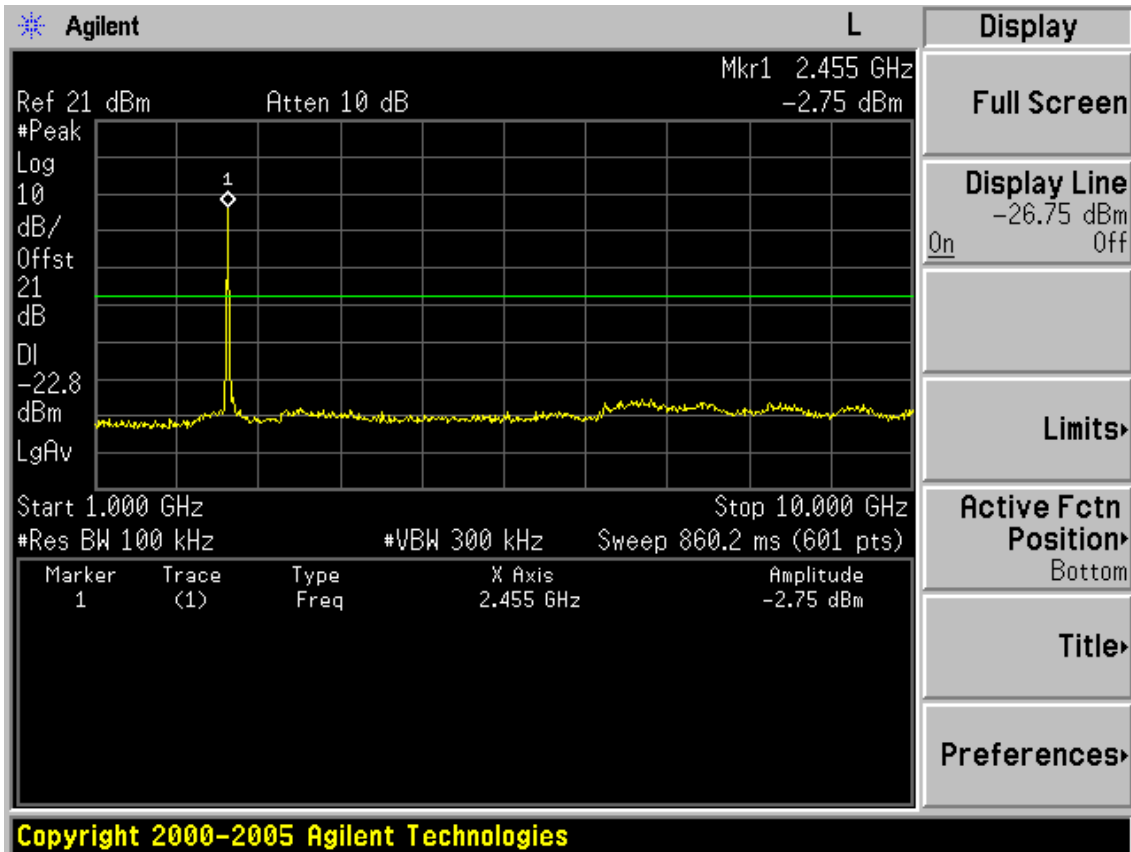


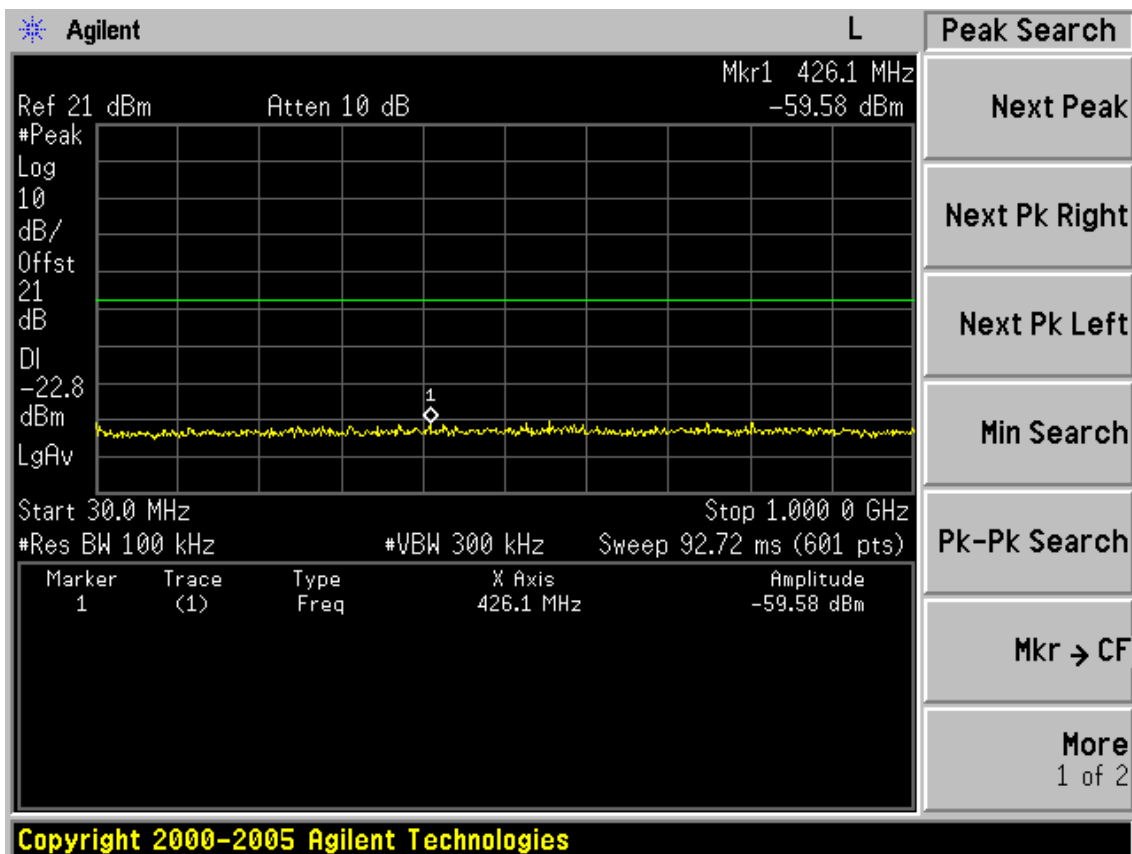
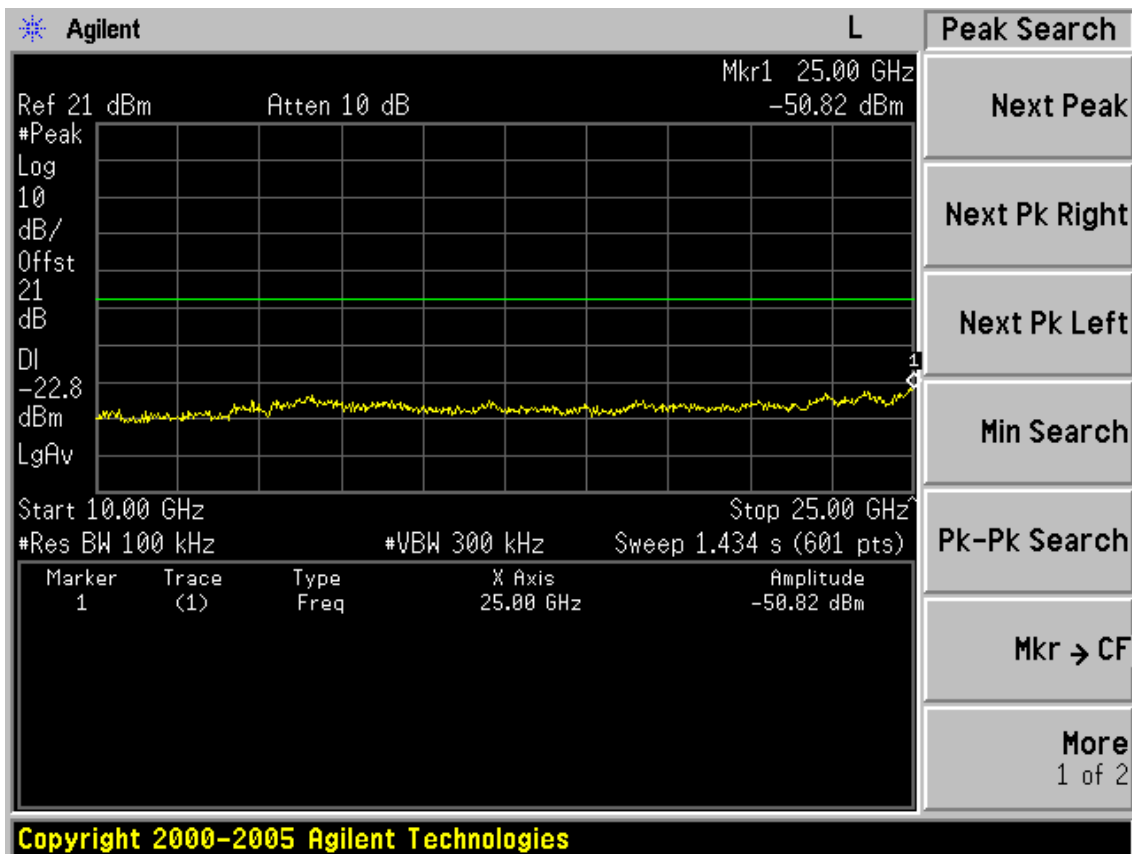
Test CH6: 2437MHz

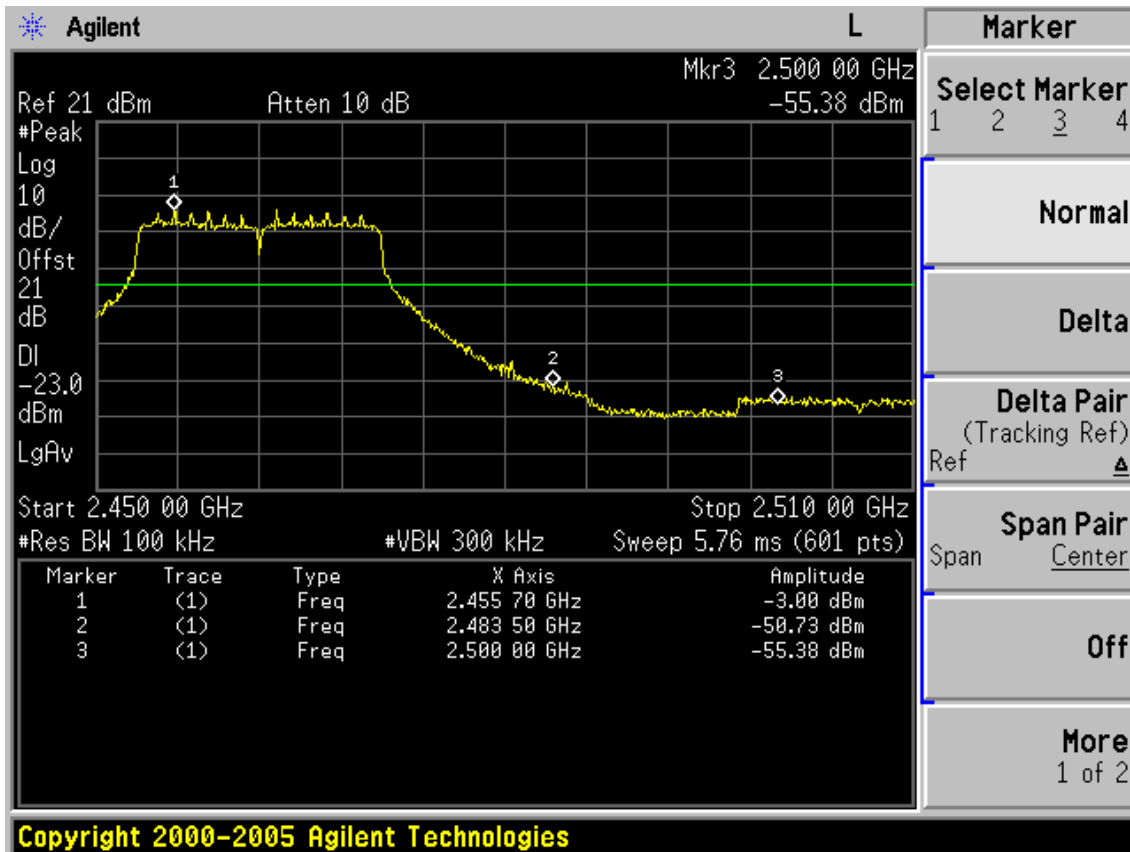




Test CH11: 2462MHz

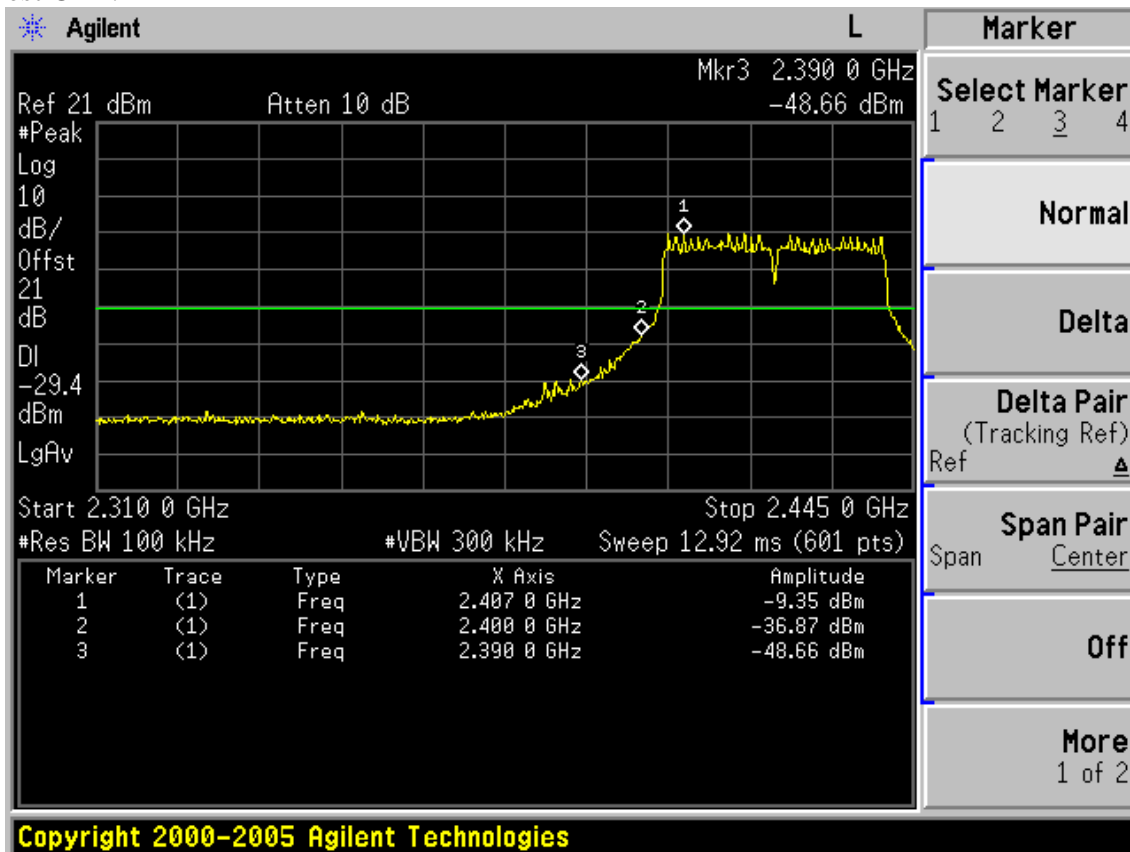


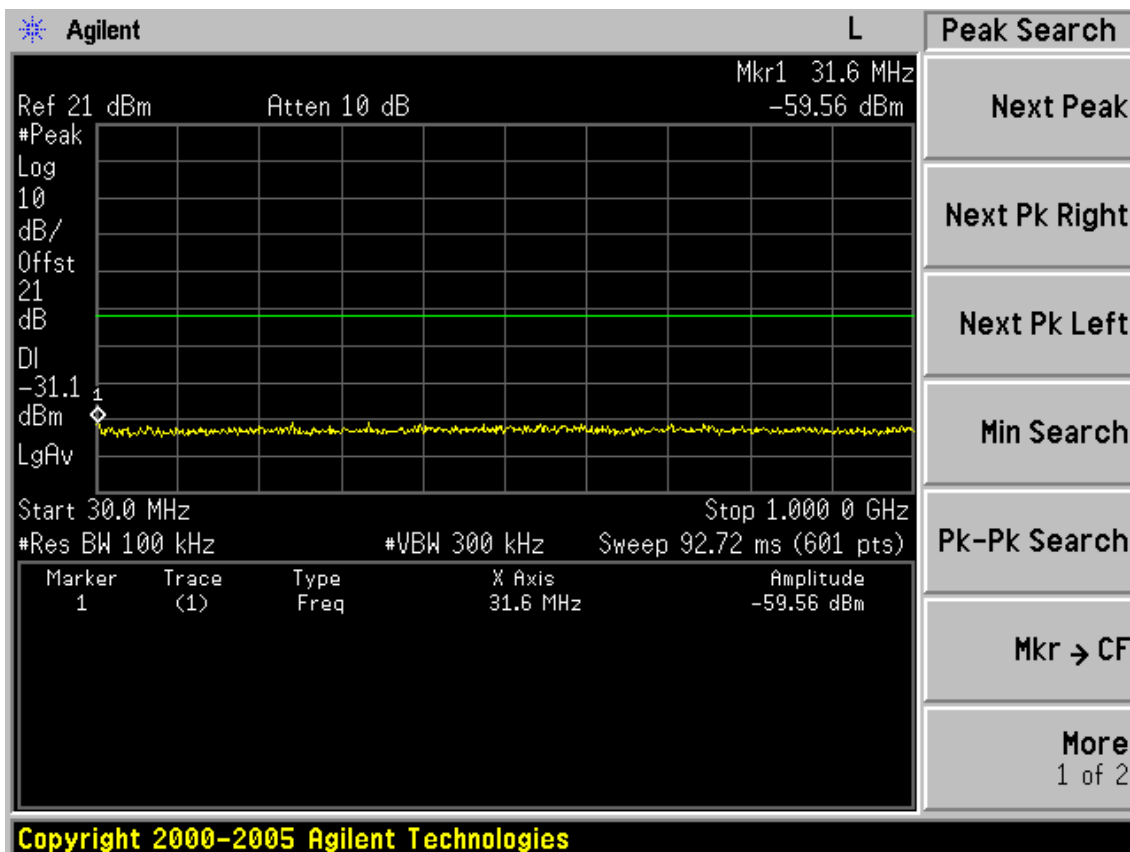
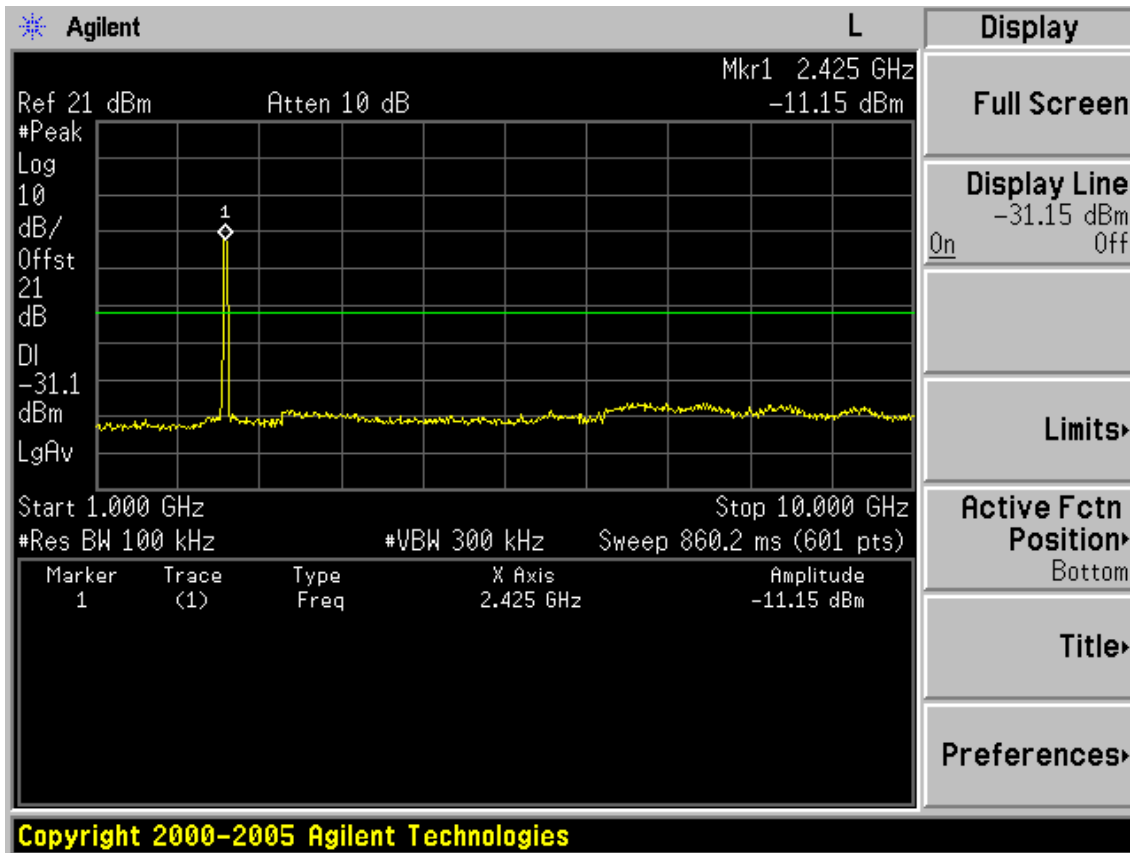


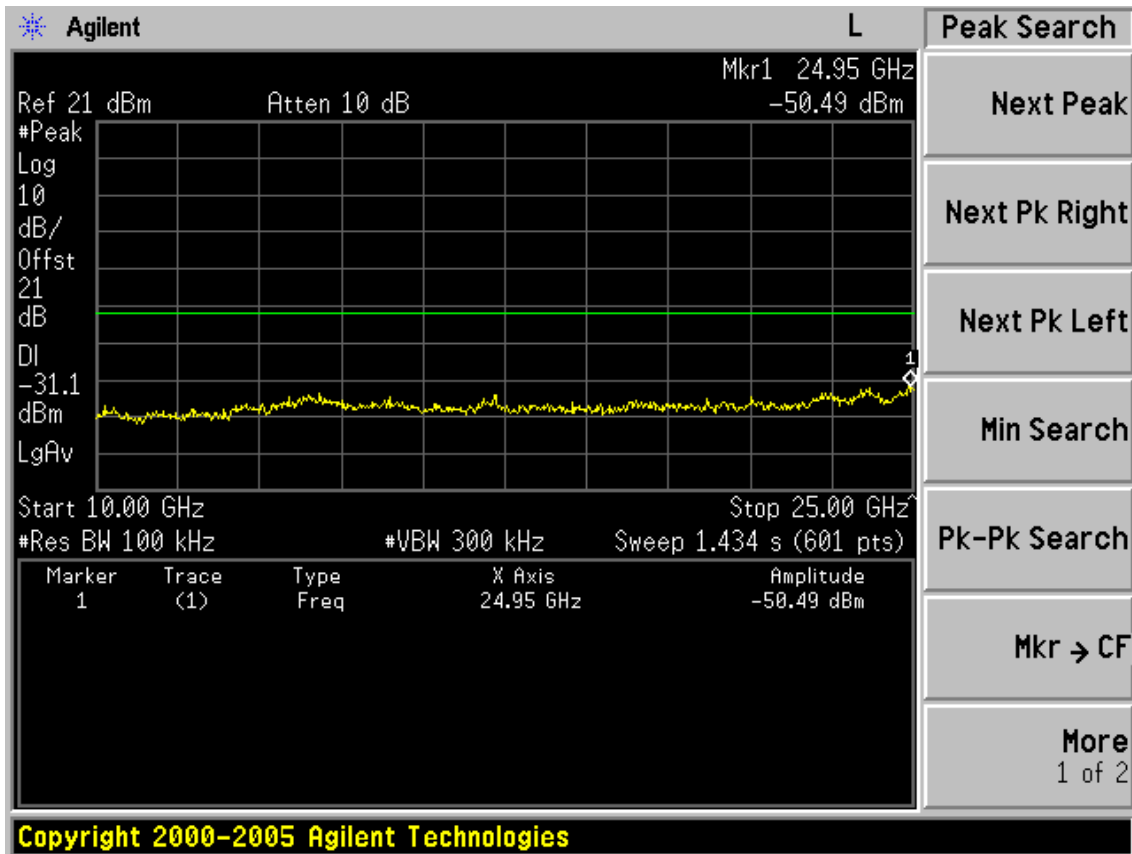


Test Mode: IEEE 802.11n HT40 TX

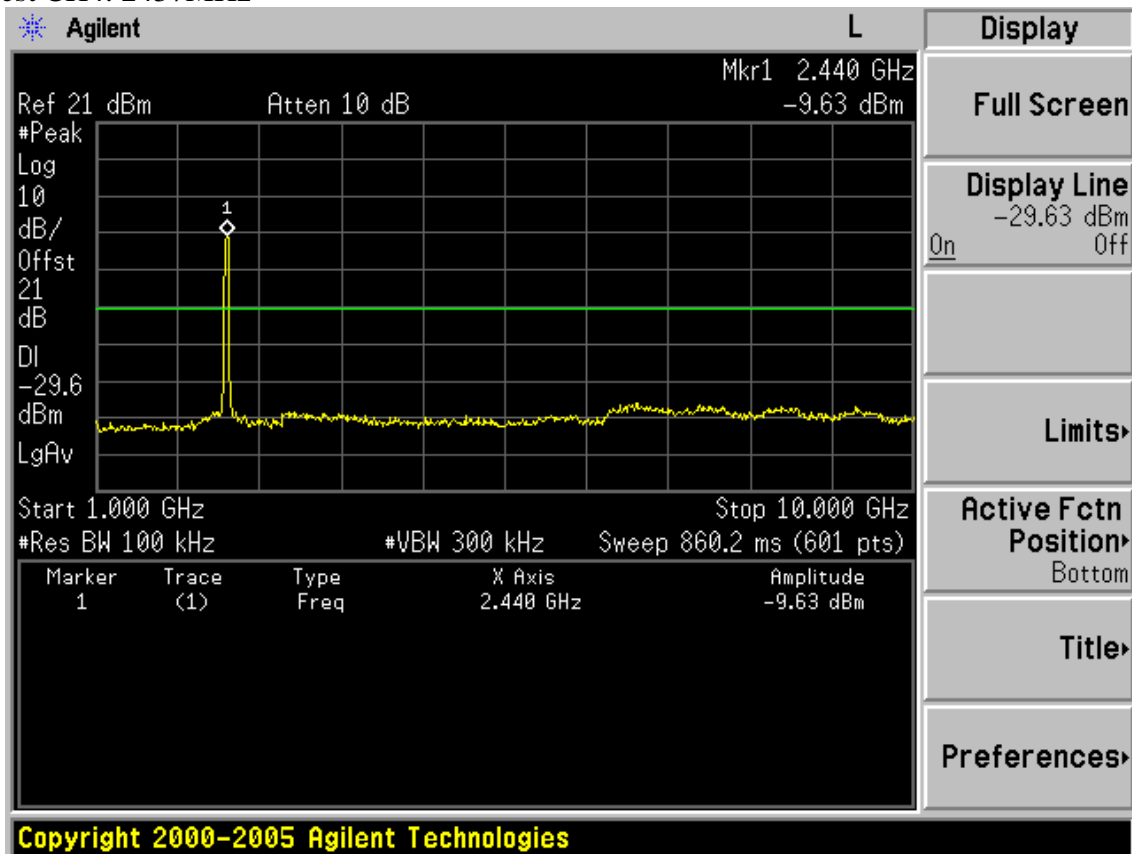
Test CH1: 2422MHz

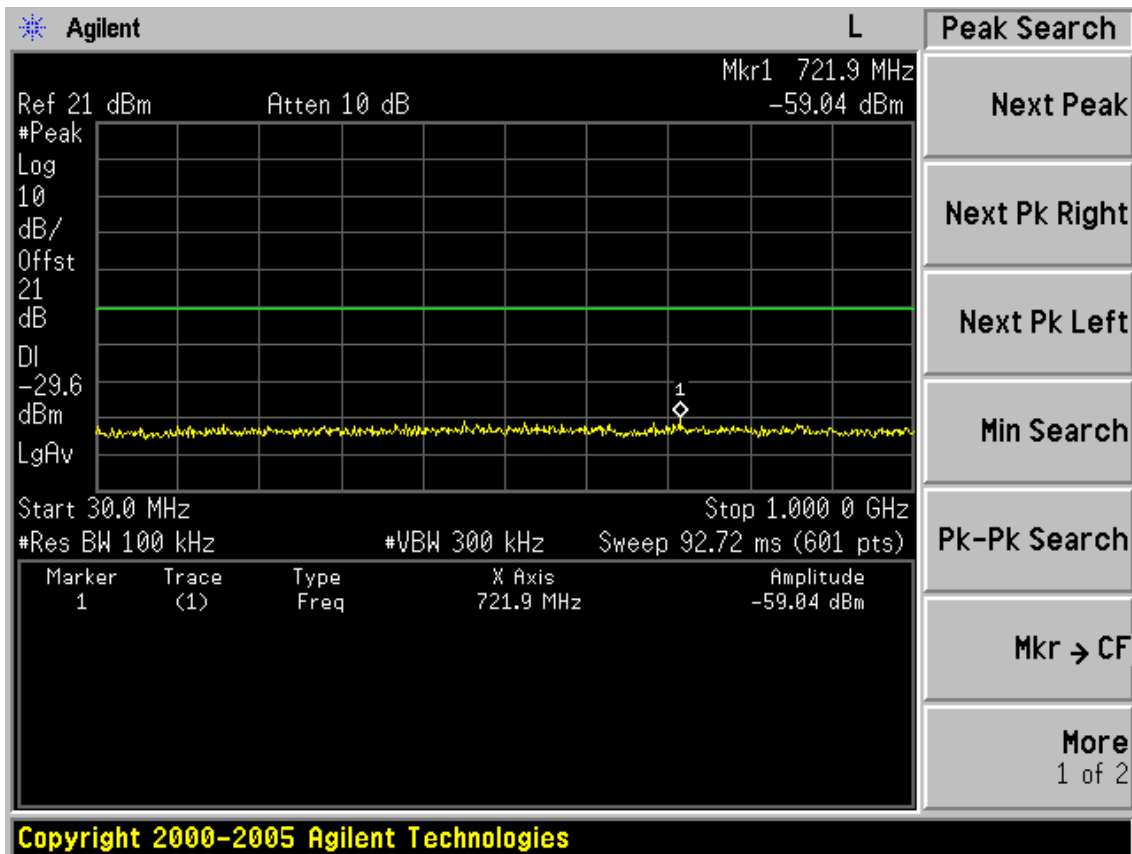
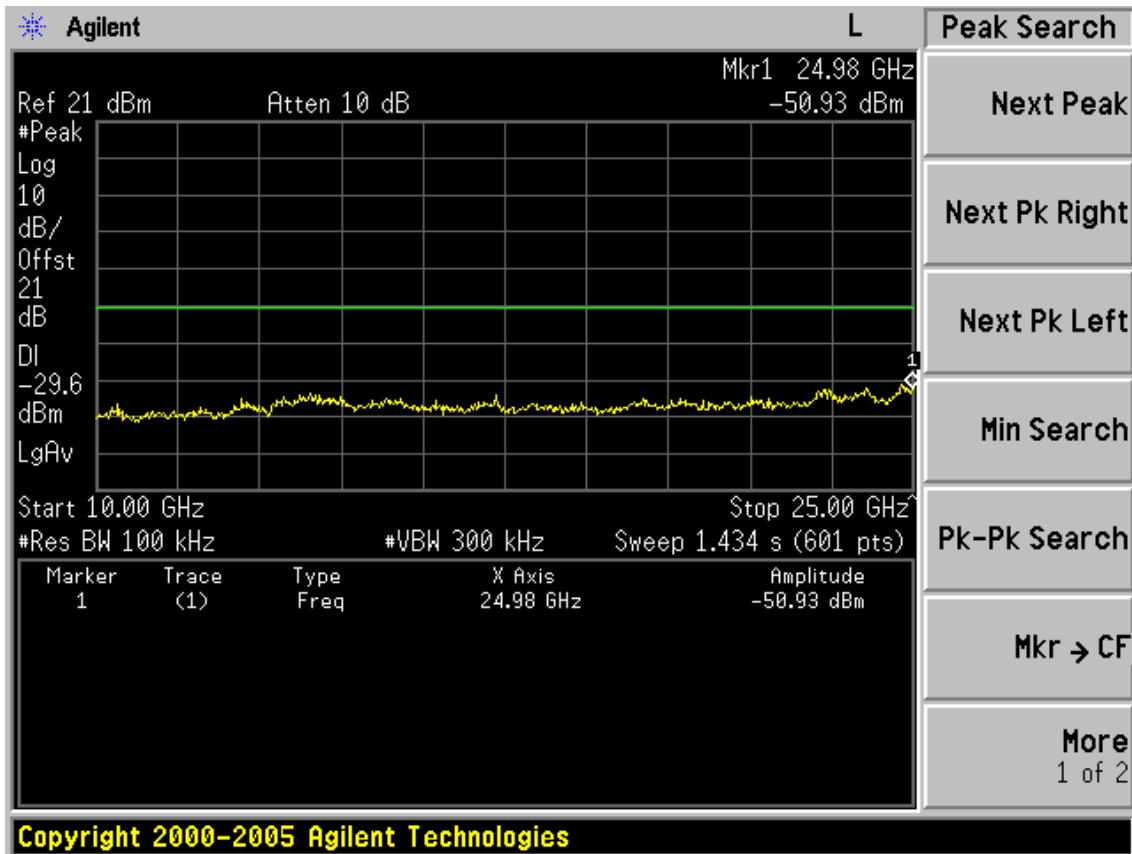




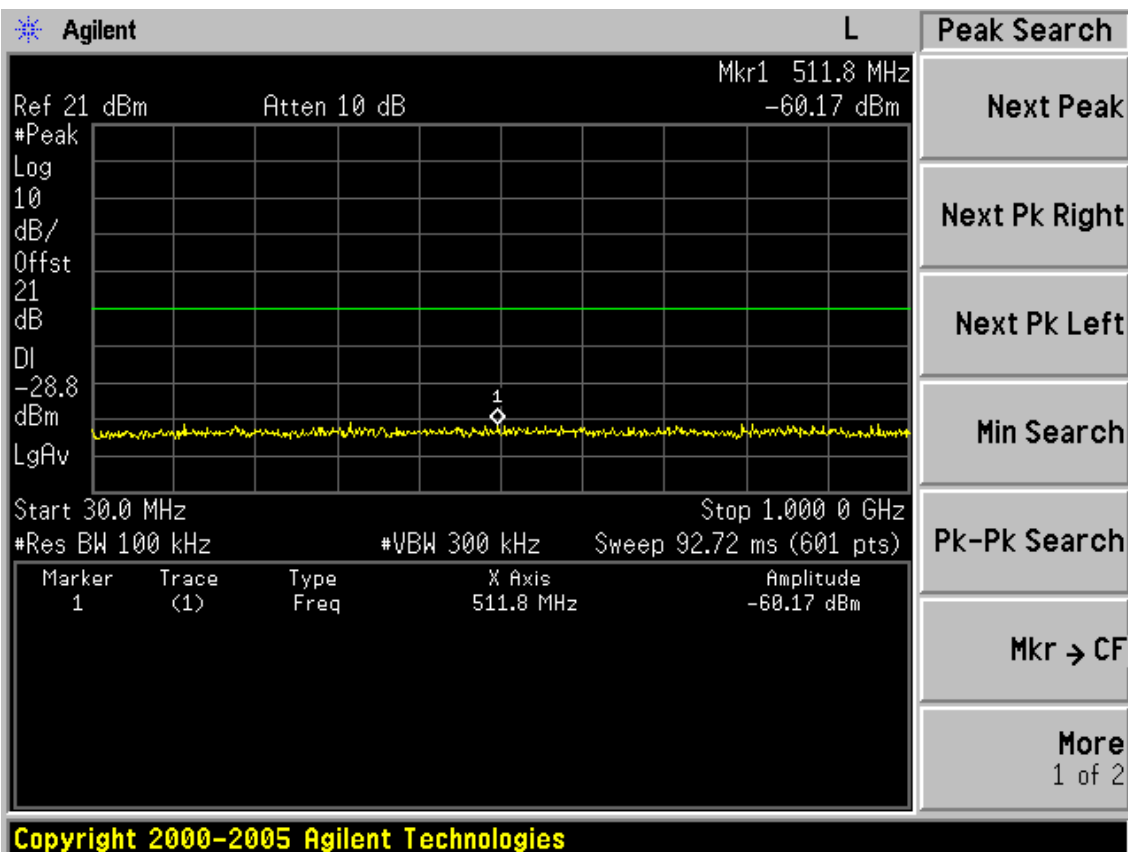
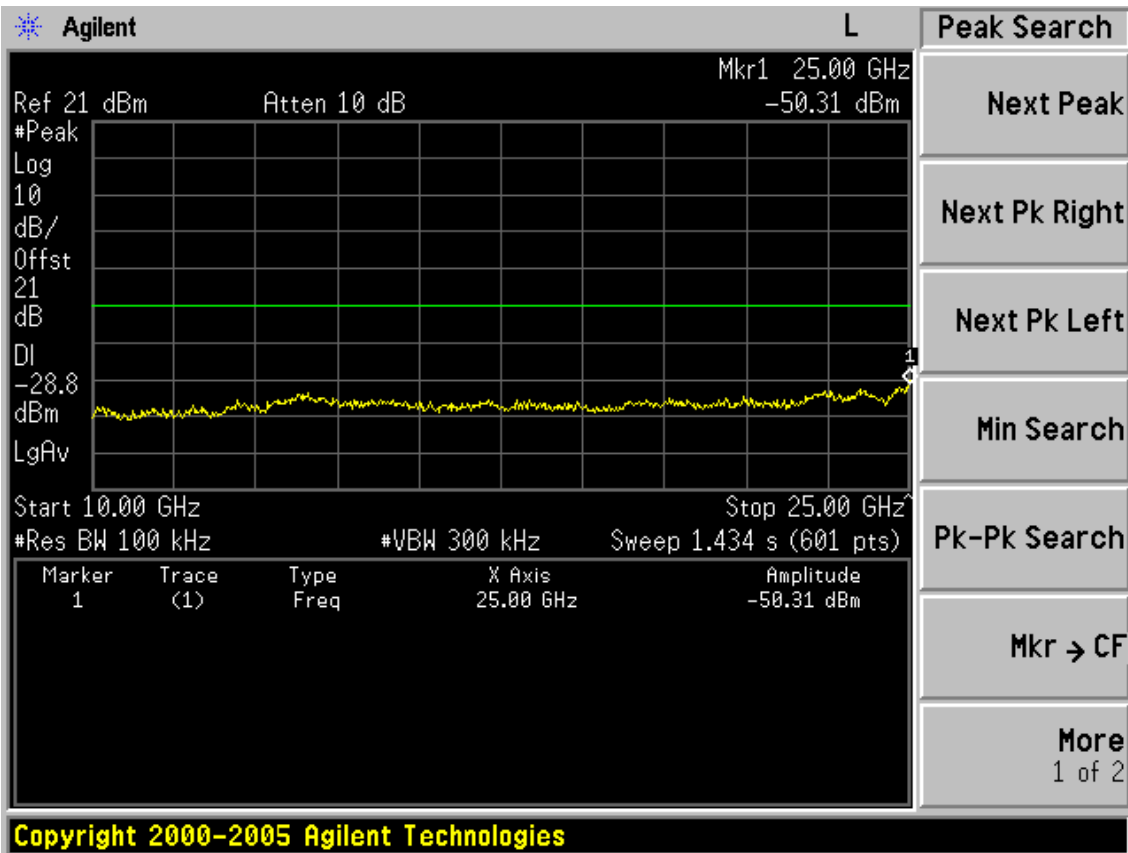


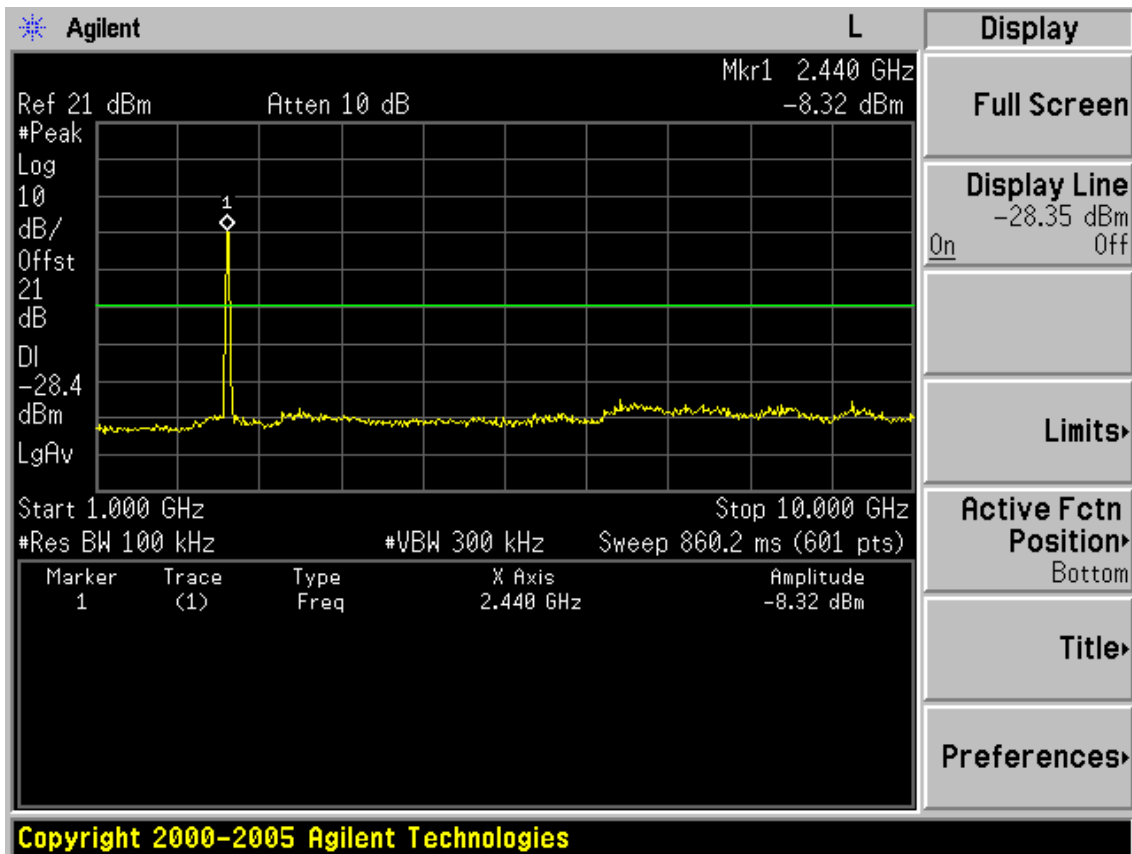
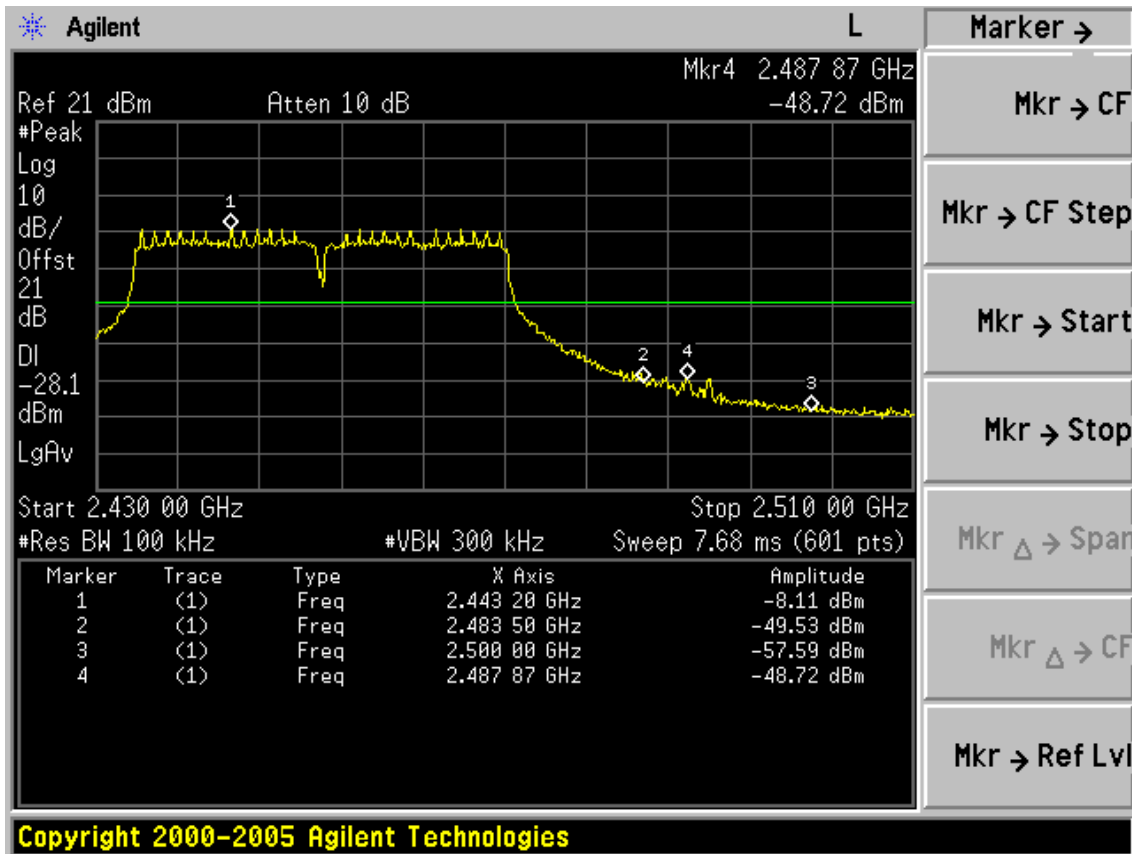
Test CH4: 2437MHz





Test CH7: 2452MHz





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	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

6.2. Limit

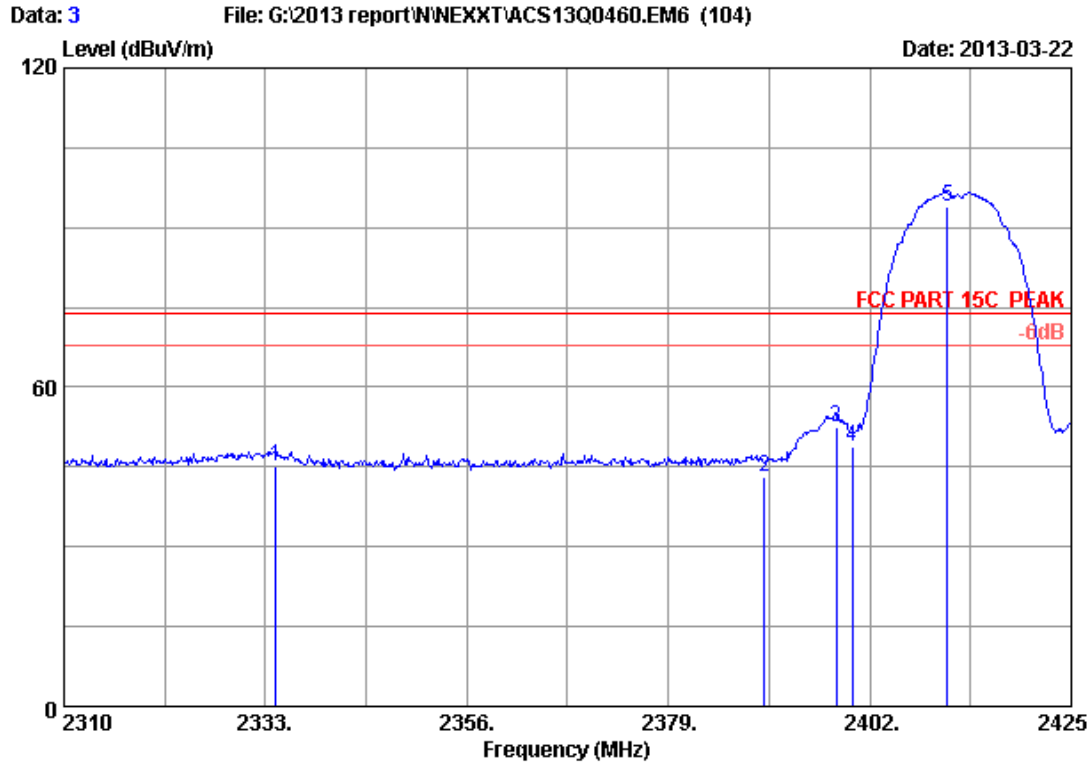
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

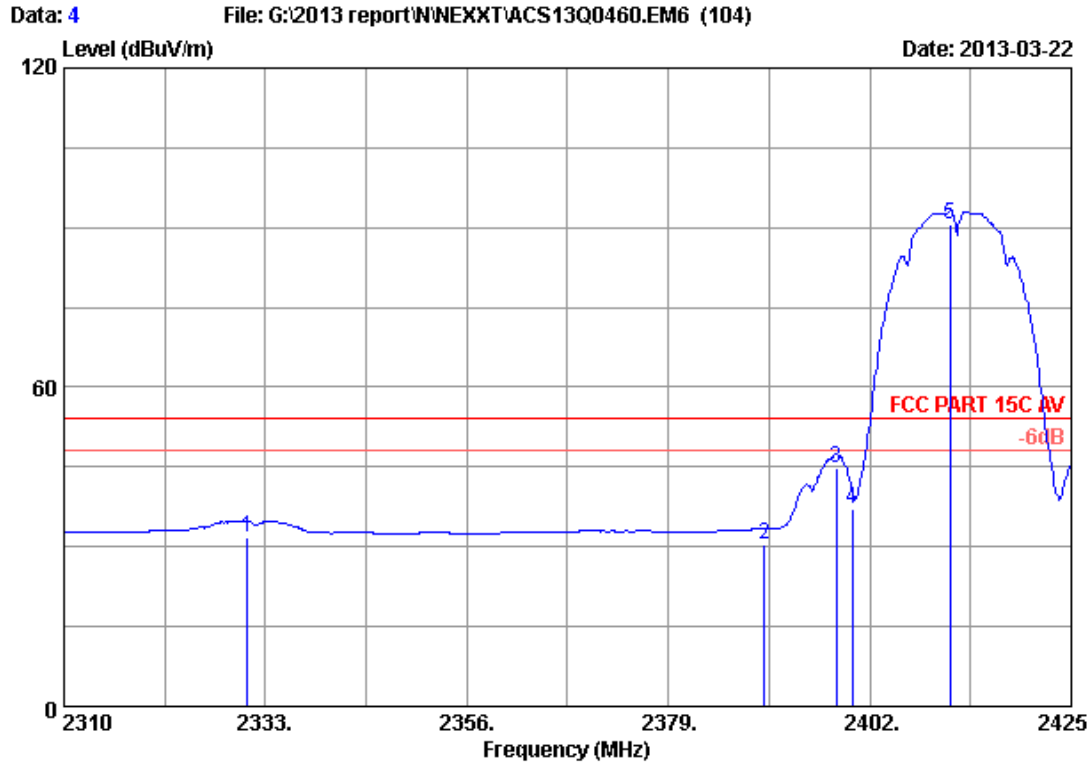


Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	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	2334.150	26.34	5.90	35.92	48.88	45.20	74.00	28.80	Peak
2	2390.000	26.70	6.00	35.92	46.47	43.25	74.00	30.75	Peak
3	2398.205	26.75	6.01	35.92	55.49	52.33	74.00	21.67	Peak
4	2400.000	26.76	6.02	35.92	51.91	48.77	74.00	25.23	Peak
5	2410.855	26.83	6.04	35.92	96.90	93.85	74.00	-19.85	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.

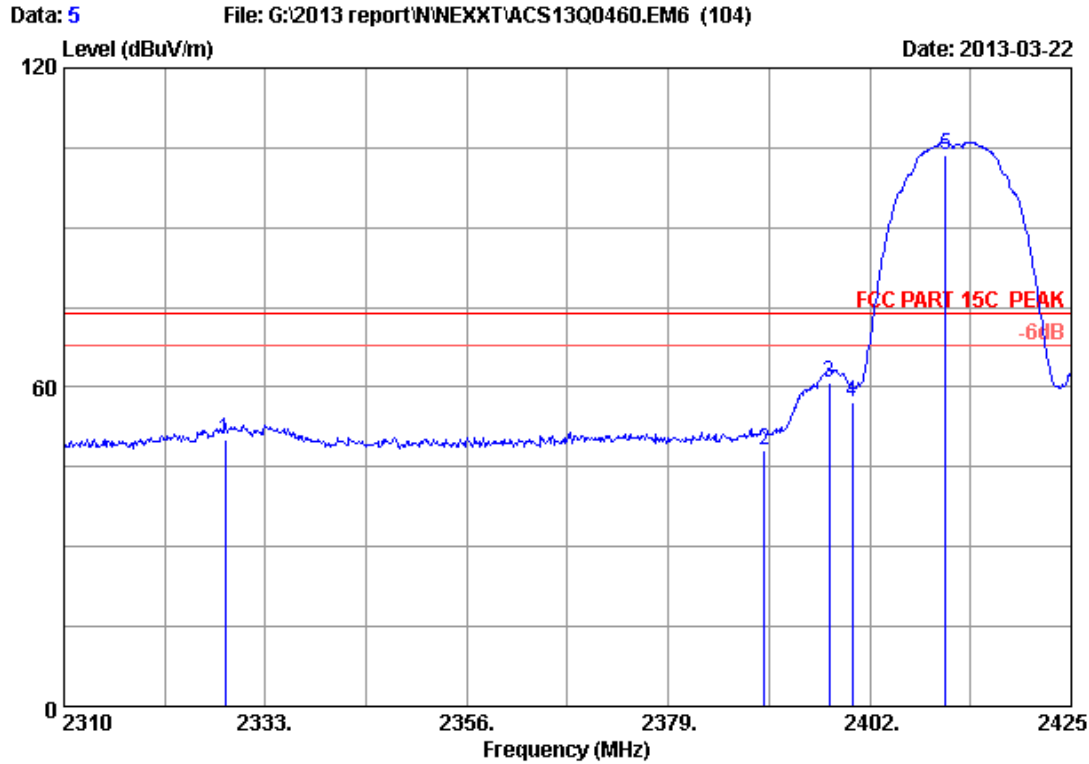


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	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	2330.930	26.32	5.90	35.92	35.51	31.81	54.00	22.19	Average
2	2390.000	26.70	6.00	35.92	33.80	30.58	54.00	23.42	Average
3	2398.205	26.75	6.01	35.92	47.97	44.81	54.00	9.19	Average
4	2400.000	26.76	6.02	35.92	40.21	37.07	54.00	16.93	Average
5	2411.200	26.83	6.04	35.92	93.52	90.47	54.00	-36.47	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.

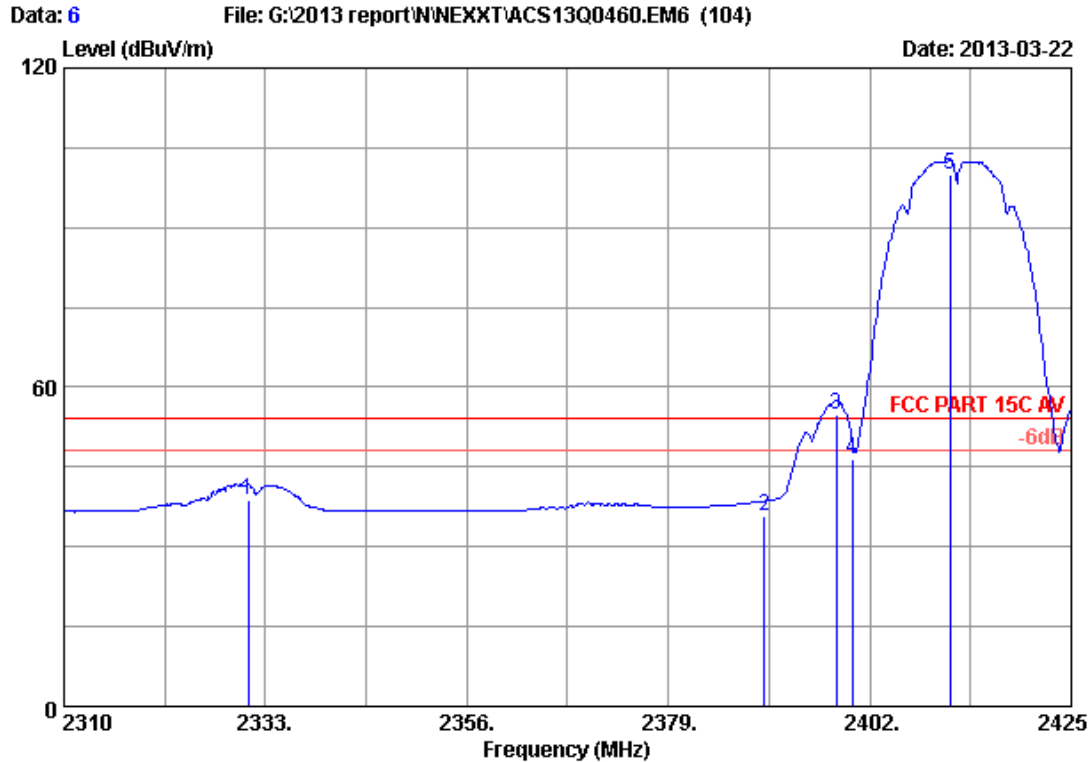


Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	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	2328.400	26.30	5.89	35.92	53.98	50.25	74.00	23.75	Peak
2	2390.000	26.70	6.00	35.92	51.52	48.30	74.00	25.70	Peak
3	2397.400	26.74	6.01	35.92	64.05	60.88	74.00	13.12	Peak
4	2400.000	26.76	6.02	35.92	60.17	57.03	74.00	16.97	Peak
5	2410.625	26.83	6.04	35.92	106.55	103.50	74.00	-29.50	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.

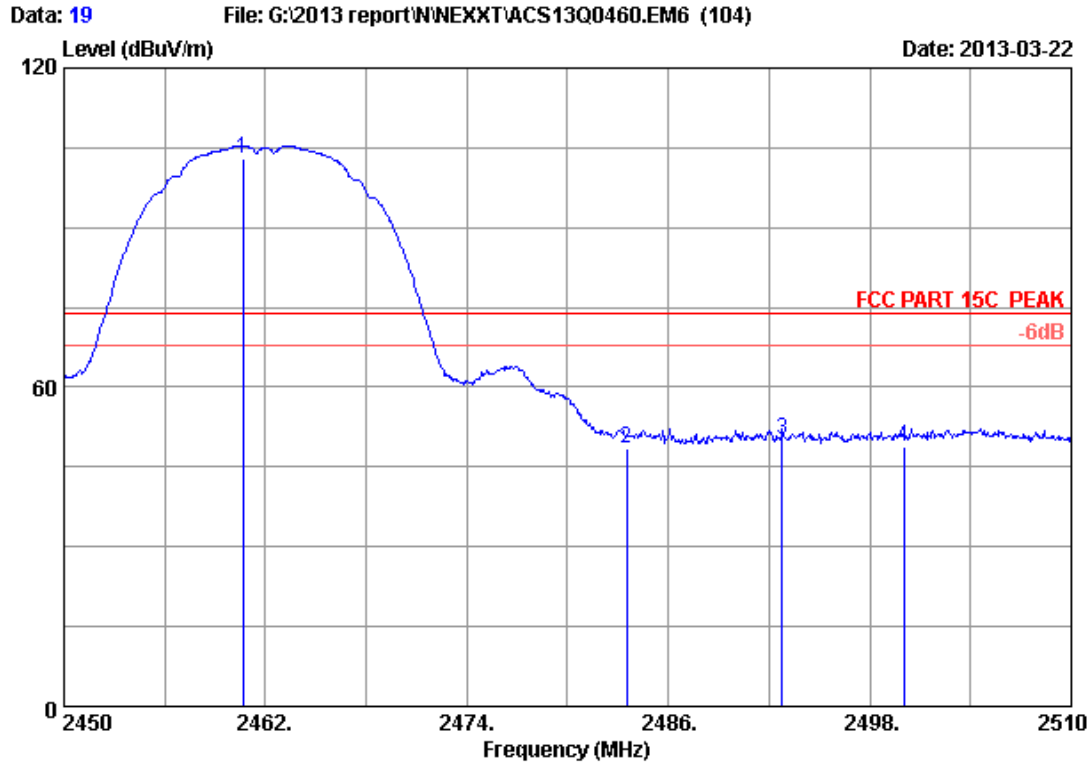


Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	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	2331.045	26.32	5.90	35.92	42.47	38.77	54.00	15.23	Average
2	2390.000	26.70	6.00	35.92	39.04	35.82	54.00	18.18	Average
3	2398.205	26.75	6.01	35.92	58.14	54.98	54.00	-0.98	Average
4	2400.000	26.76	6.02	35.92	49.47	46.33	54.00	7.67	Average
5	2411.200	26.83	6.04	35.92	103.12	100.07	54.00	-46.07	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.

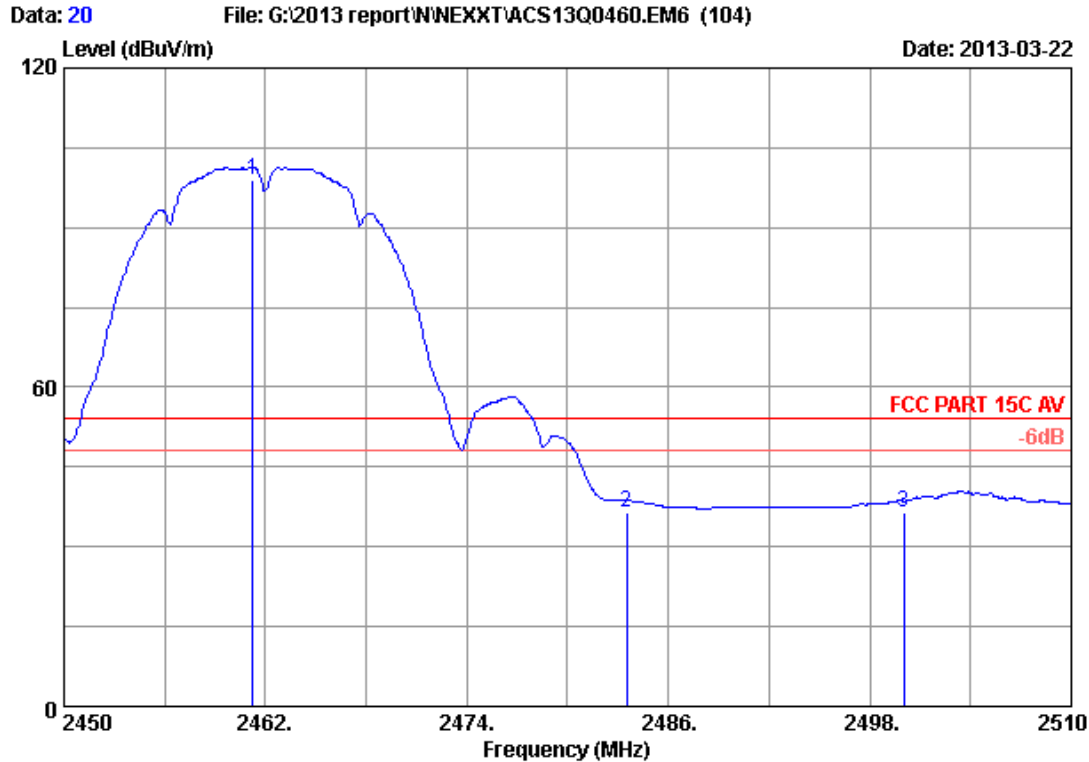


Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	27.15	6.12	35.92	105.59	102.94	74.00	-28.94	Peak
2	2483.500	27.29	6.16	35.92	51.05	48.58	74.00	25.42	Peak
3	2492.780	27.35	6.18	35.92	52.38	49.99	74.00	24.01	Peak
4	2500.000	27.40	6.19	35.93	51.27	48.93	74.00	25.07	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.

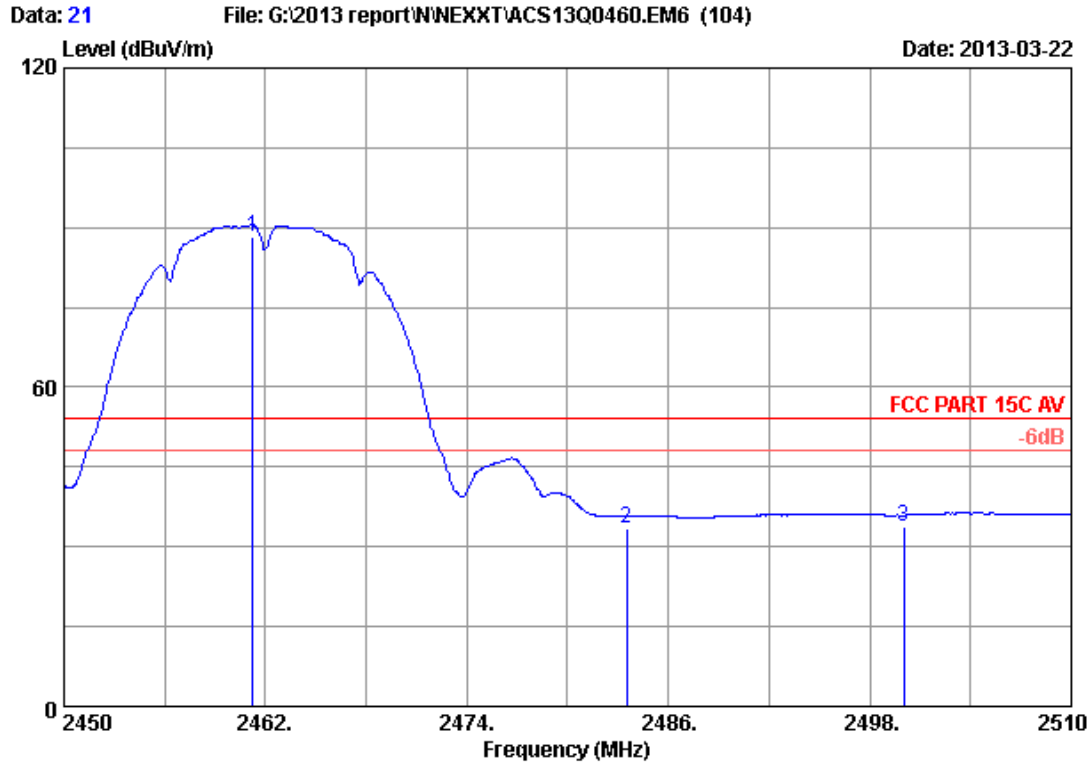


Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	27.15	6.12	35.92	101.72	99.07	54.00	-45.07	Average
2	2483.500	27.29	6.16	35.92	38.99	36.52	54.00	17.48	Average
3	2500.000	27.40	6.19	35.93	38.64	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.

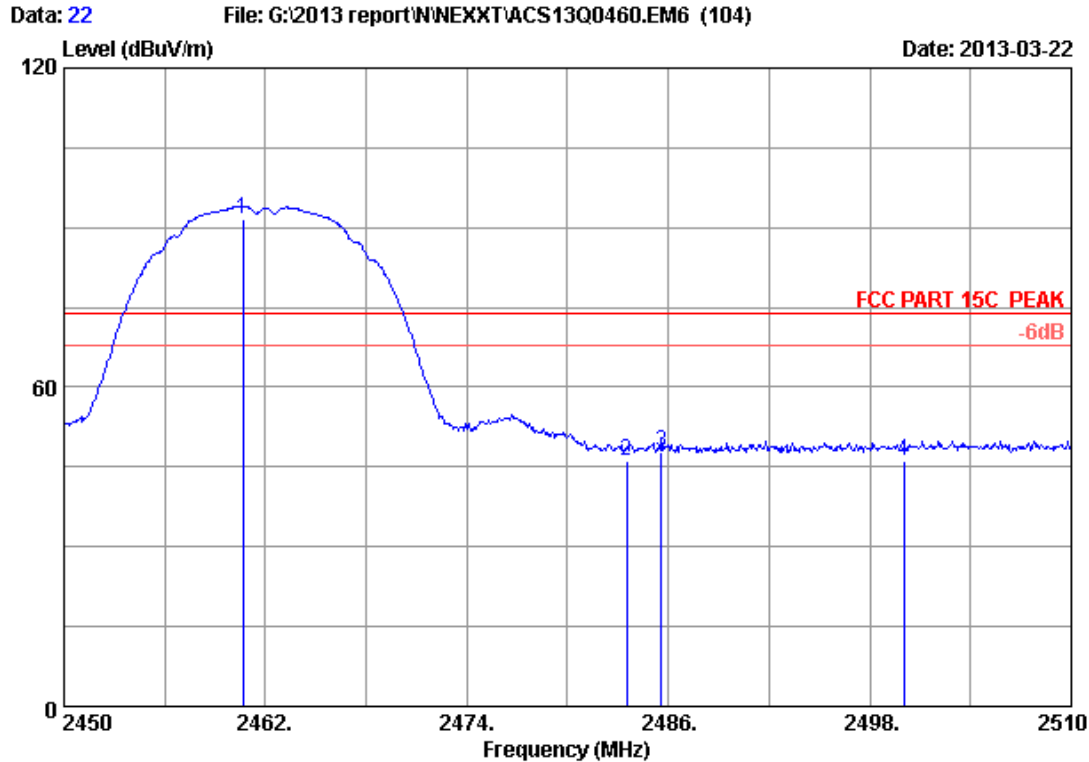


Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	27.15	6.12	35.92	90.75	88.10	54.00	-34.10	Average
2	2483.500	27.29	6.16	35.92	36.04	33.57	54.00	20.43	Average
3	2500.000	27.40	6.19	35.93	36.08	33.74	54.00	20.26	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.

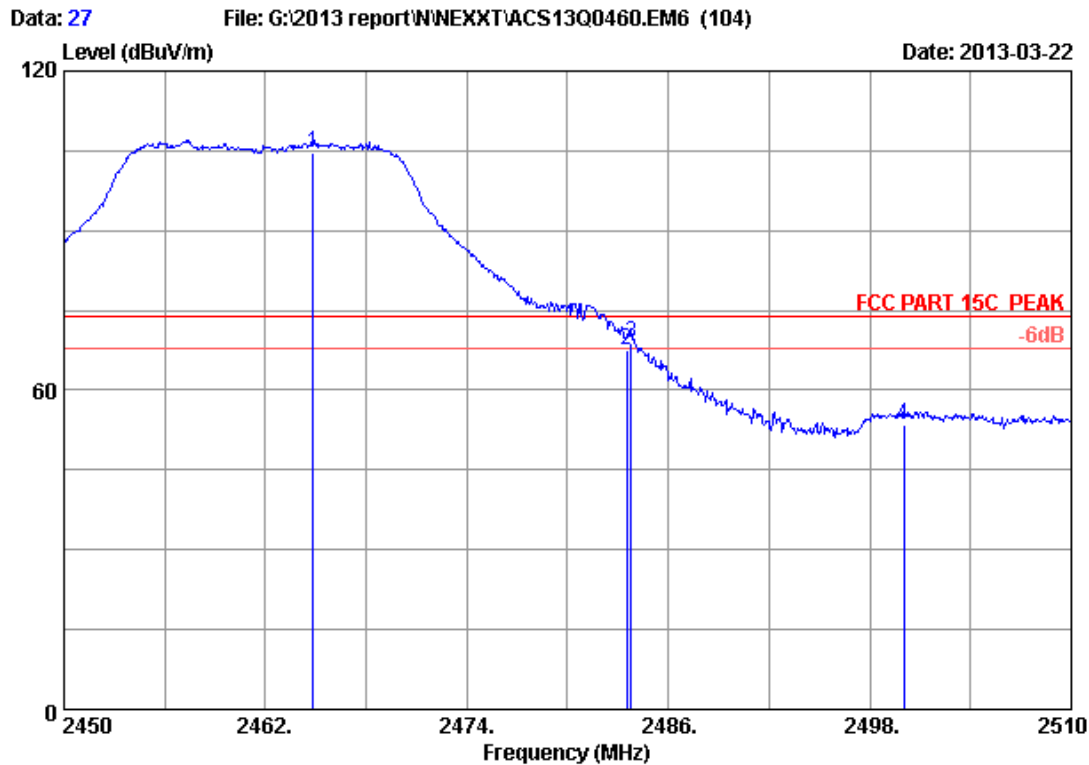


Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	27.15	6.12	35.92	94.19	91.54	74.00	-17.54	Peak
2	2483.500	27.29	6.16	35.92	48.62	46.15	74.00	27.85	Peak
3	2485.580	27.31	6.16	35.92	50.40	47.95	74.00	26.05	Peak
4	2500.000	27.40	6.19	35.93	48.45	46.11	74.00	27.89	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.

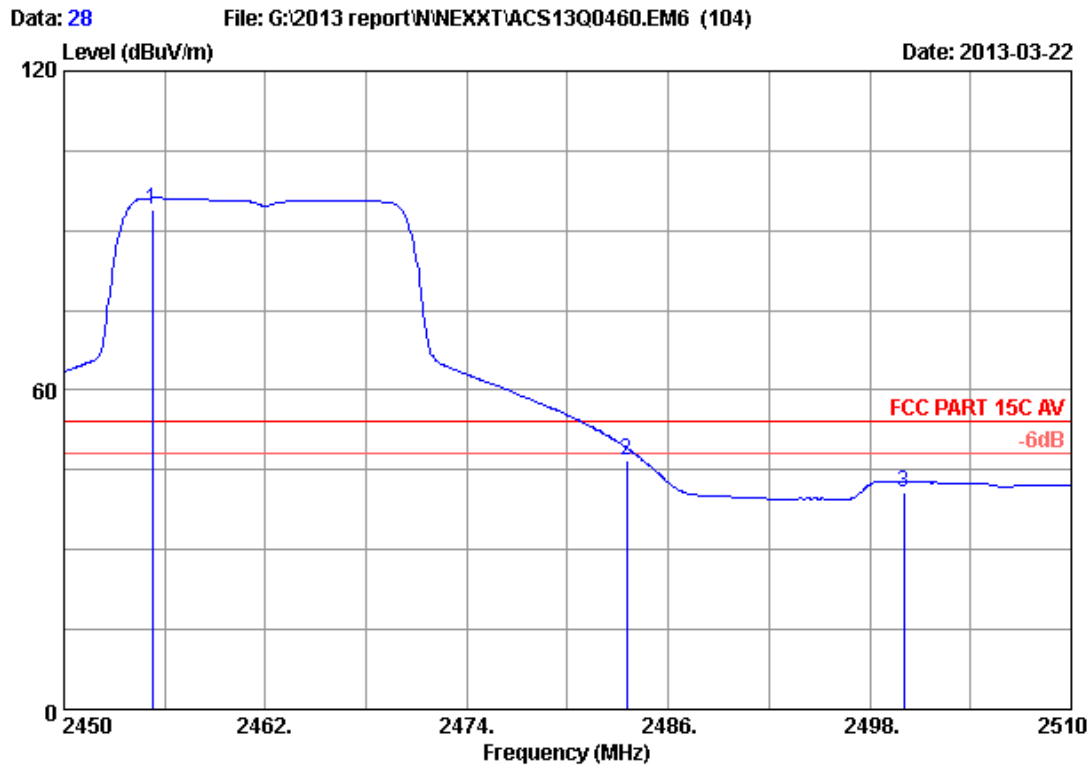


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.820	27.17	6.13	35.92	107.20	104.58	74.00	-30.58	Peak
2	2483.500	27.29	6.16	35.92	69.90	67.43	74.00	6.57	Peak
3	2483.780	27.30	6.16	35.92	71.31	68.85	74.00	5.15	Peak
4	2500.000	27.40	6.19	35.93	55.92	53.58	74.00	20.42	Peak

Remarks:

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

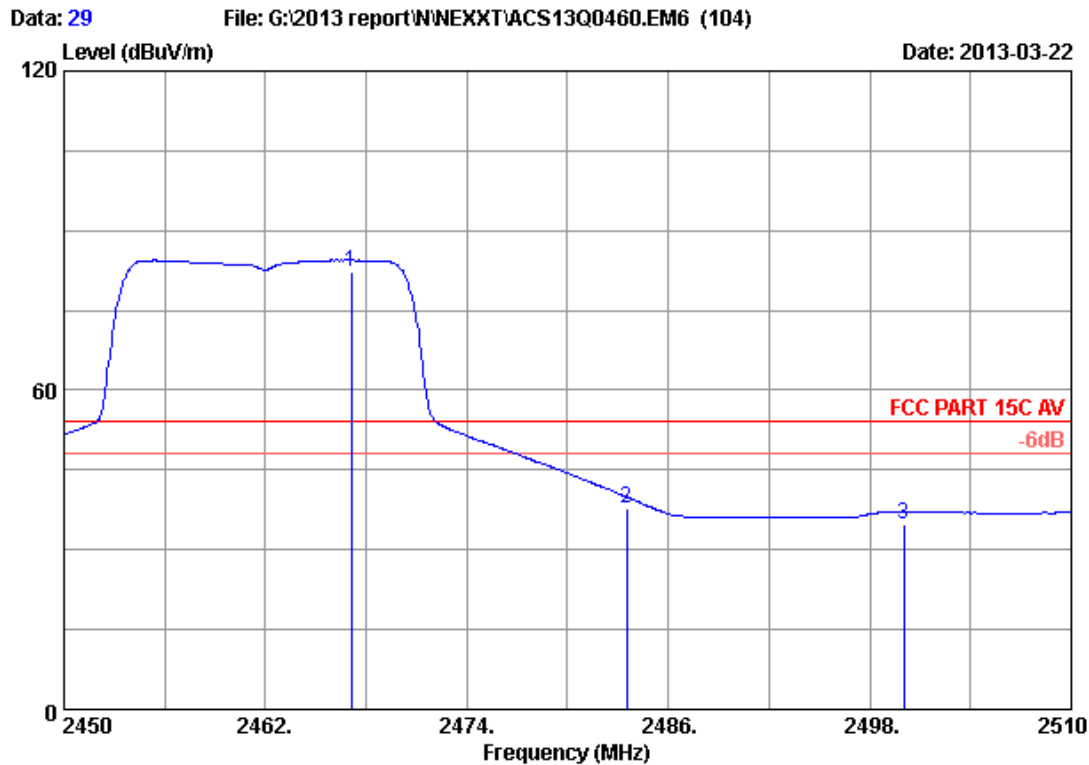


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	2455.280	27.11	6.11	35.92	96.47	93.77	54.00	-39.77	Average
2	2483.500	27.29	6.16	35.92	49.38	46.91	54.00	7.09	Average
3	2500.000	27.40	6.19	35.93	43.05	40.71	54.00	13.29	Average

Remarks:

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

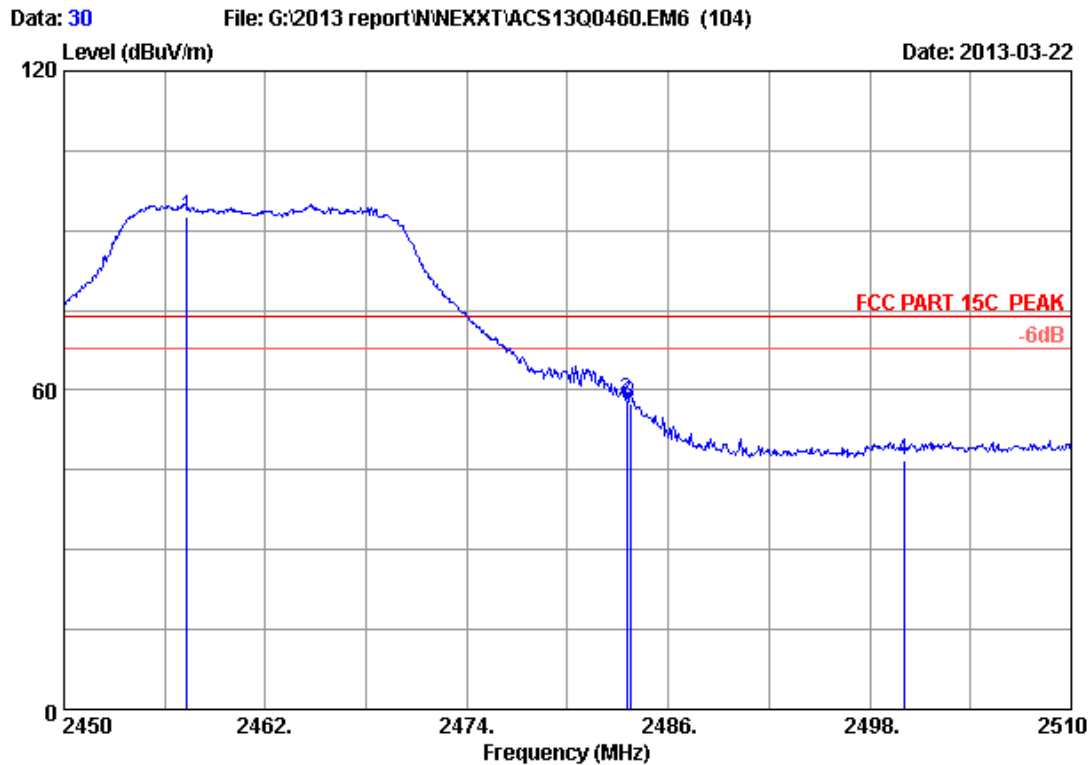


Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.100	27.19	6.13	35.92	84.69	82.09	54.00	-28.09	Average
2	2483.500	27.29	6.16	35.92	40.14	37.67	54.00	16.33	Average
3	2500.000	27.40	6.19	35.93	37.22	34.88	54.00	19.12	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.

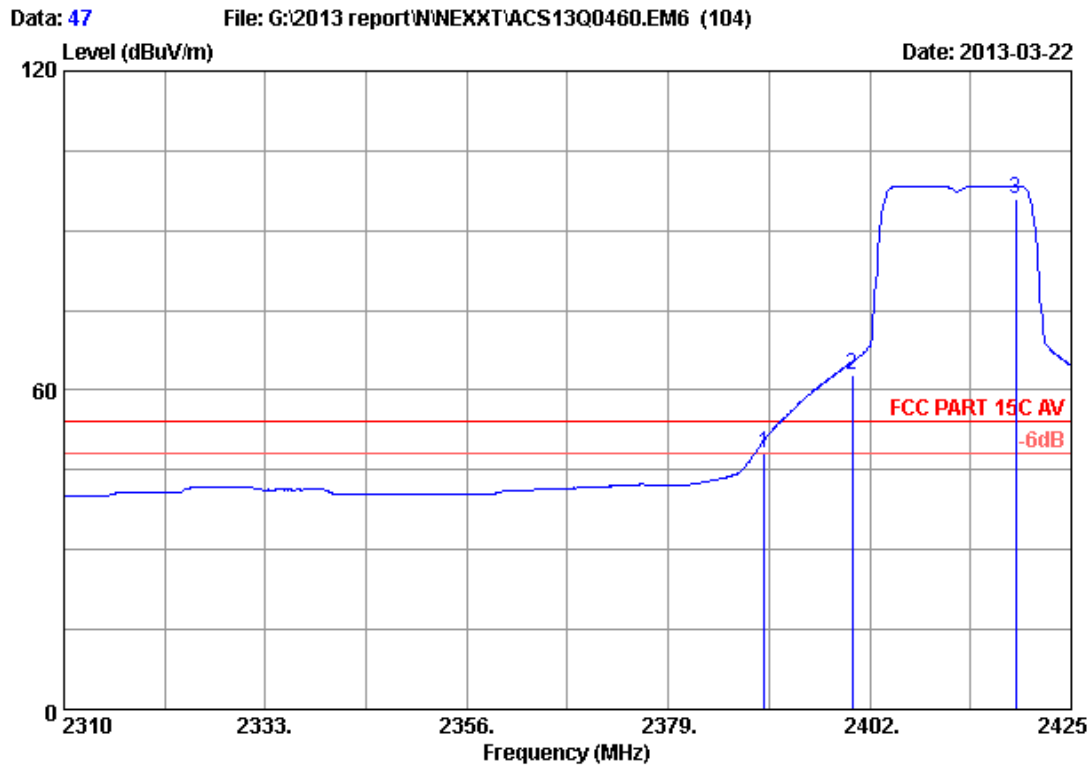


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	27.13	6.11	35.92	95.30	92.62	74.00	-18.62	Peak
2	2483.500	27.29	6.16	35.92	60.59	58.12	74.00	15.88	Peak
3	2483.720	27.30	6.16	35.92	59.96	57.50	74.00	16.50	Peak
4	2500.000	27.40	6.19	35.93	49.03	46.69	74.00	27.31	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.

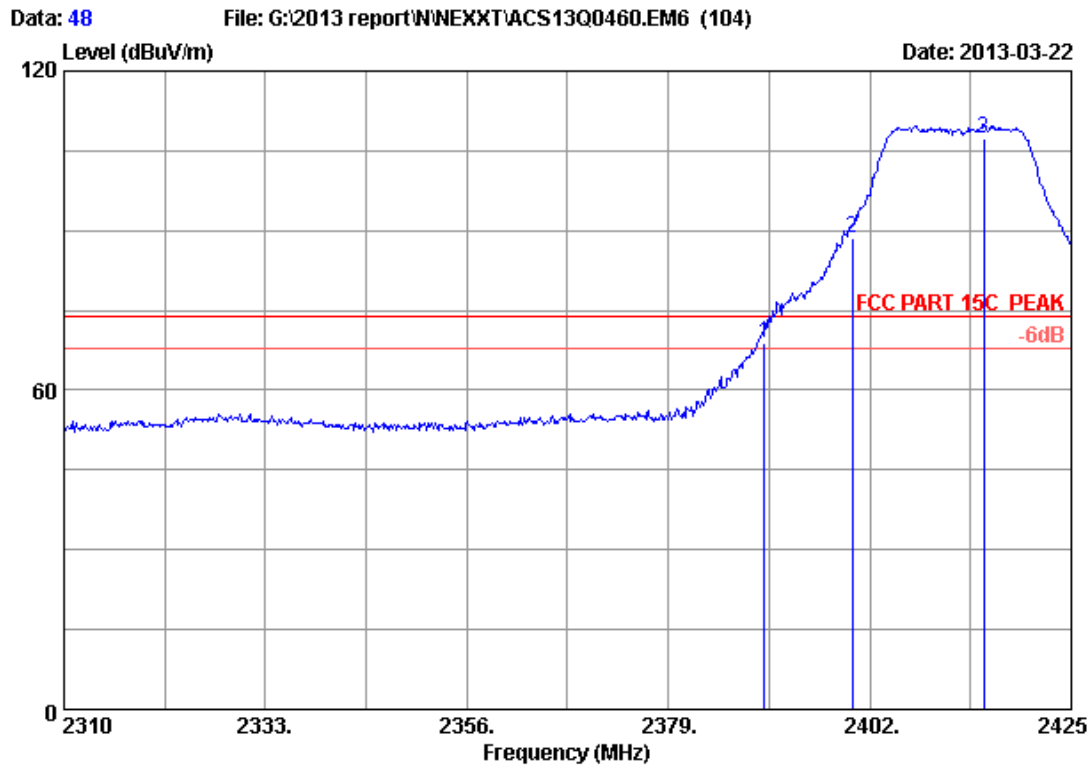


Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	51.28	48.06	54.00	5.94	Average
2	2400.000	26.76	6.02	35.92	65.99	62.85	54.00	-8.85	Average
3	2418.675	26.88	6.05	35.92	98.80	95.81	54.00	-41.81	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.

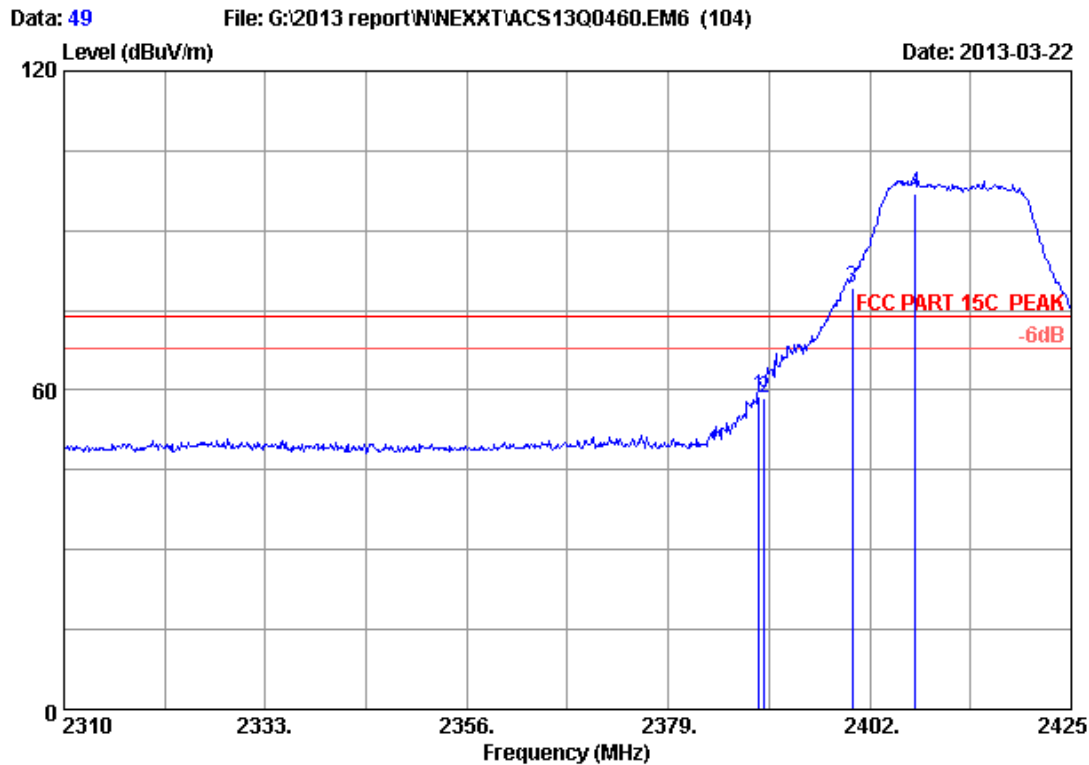


Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	72.06	68.84	74.00	5.16	Peak
2	2400.000	26.76	6.02	35.92	91.69	88.55	74.00	-14.55	Peak
3	2414.995	26.86	6.04	35.92	110.33	107.31	74.00	-33.31	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.

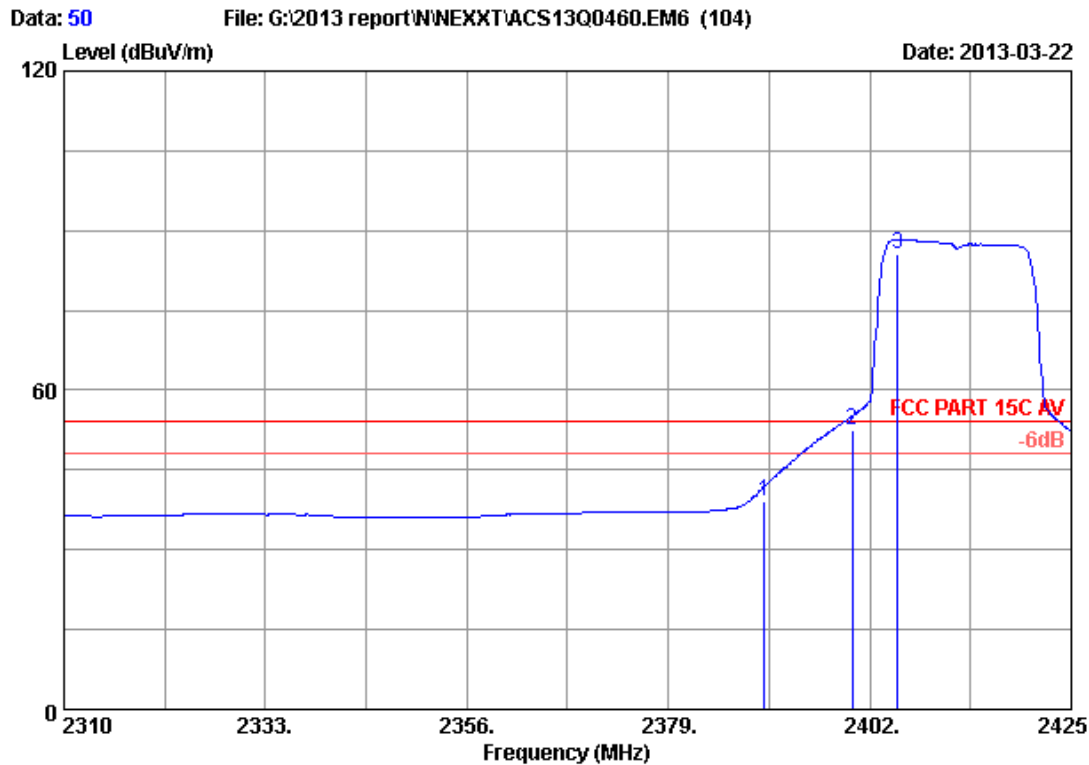


Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.350	26.69	6.00	35.92	62.02	58.79	74.00	15.21	Peak
2	2390.000	26.70	6.00	35.92	61.64	58.42	74.00	15.58	Peak
3	2400.000	26.76	6.02	35.92	82.41	79.27	74.00	-5.27	Peak
4	2407.175	26.81	6.03	35.92	100.14	97.06	74.00	-23.06	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.

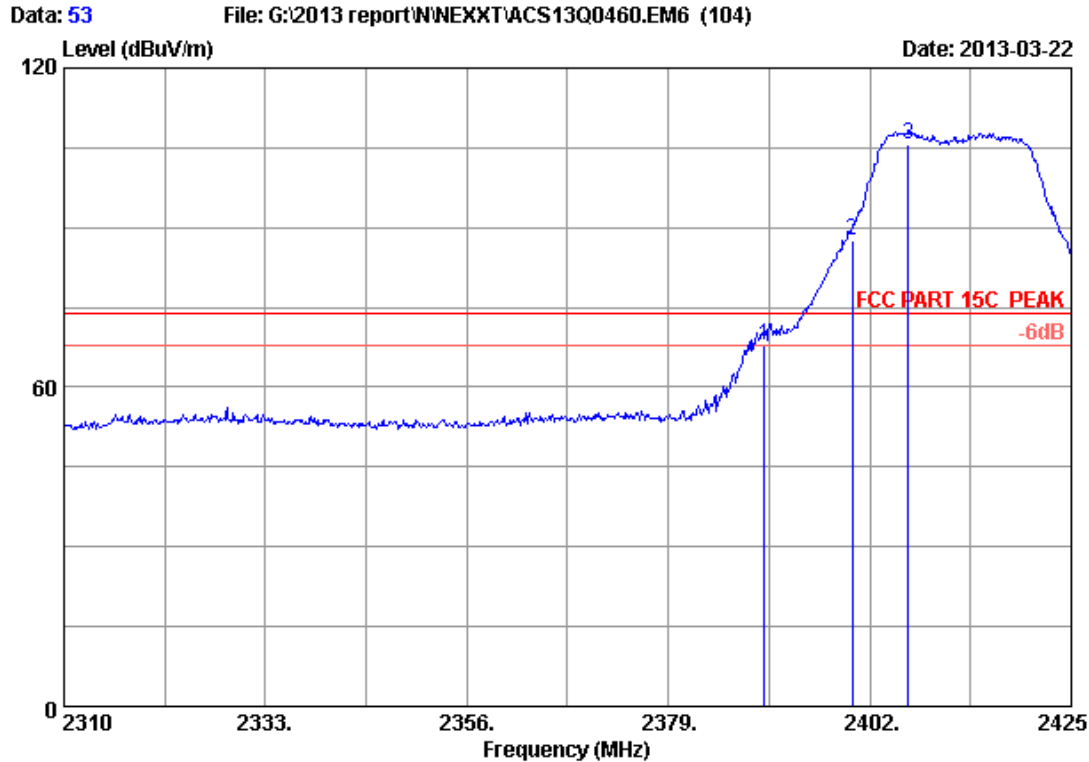


Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	42.47	39.25	54.00	14.75	Average
2	2400.000	26.76	6.02	35.92	55.72	52.58	54.00	1.42	Average
3	2405.220	26.79	6.03	35.92	88.84	85.74	54.00	-31.74	Average

Remarks:

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

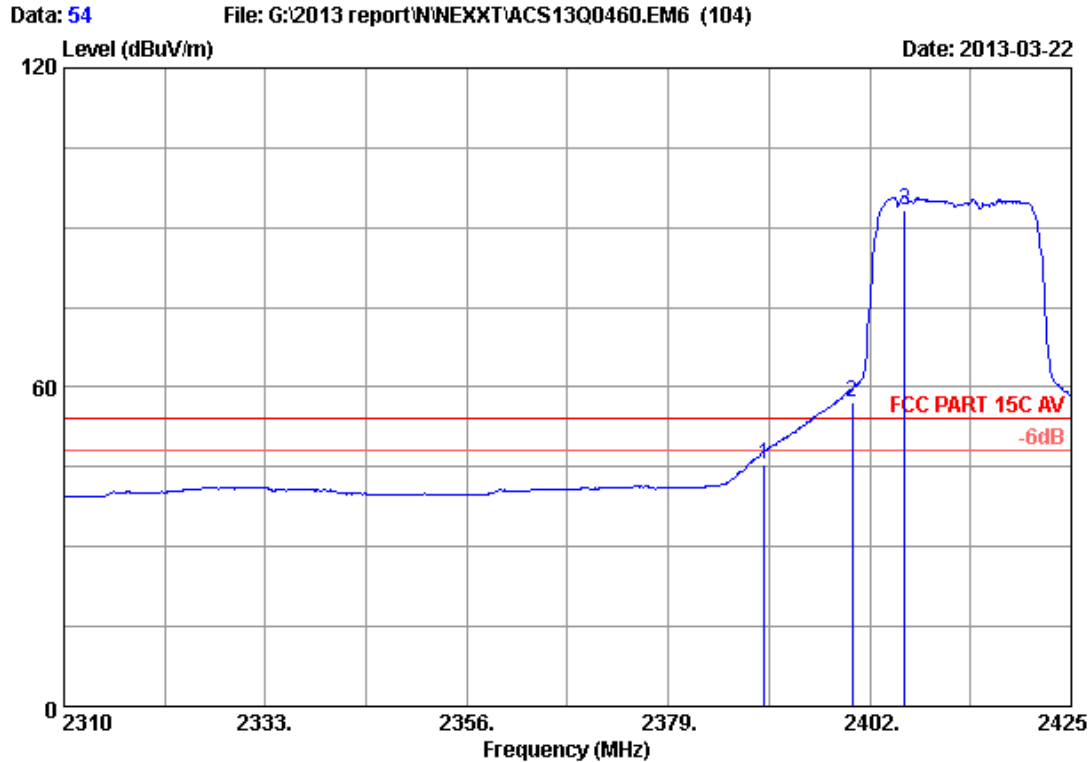


Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	70.97	67.75	74.00	6.25	Peak
2	2400.000	26.76	6.02	35.92	90.71	87.57	74.00	-13.57	Peak
3	2406.370	26.80	6.03	35.92	108.58	105.49	74.00	-31.49	Peak

Remarks:

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

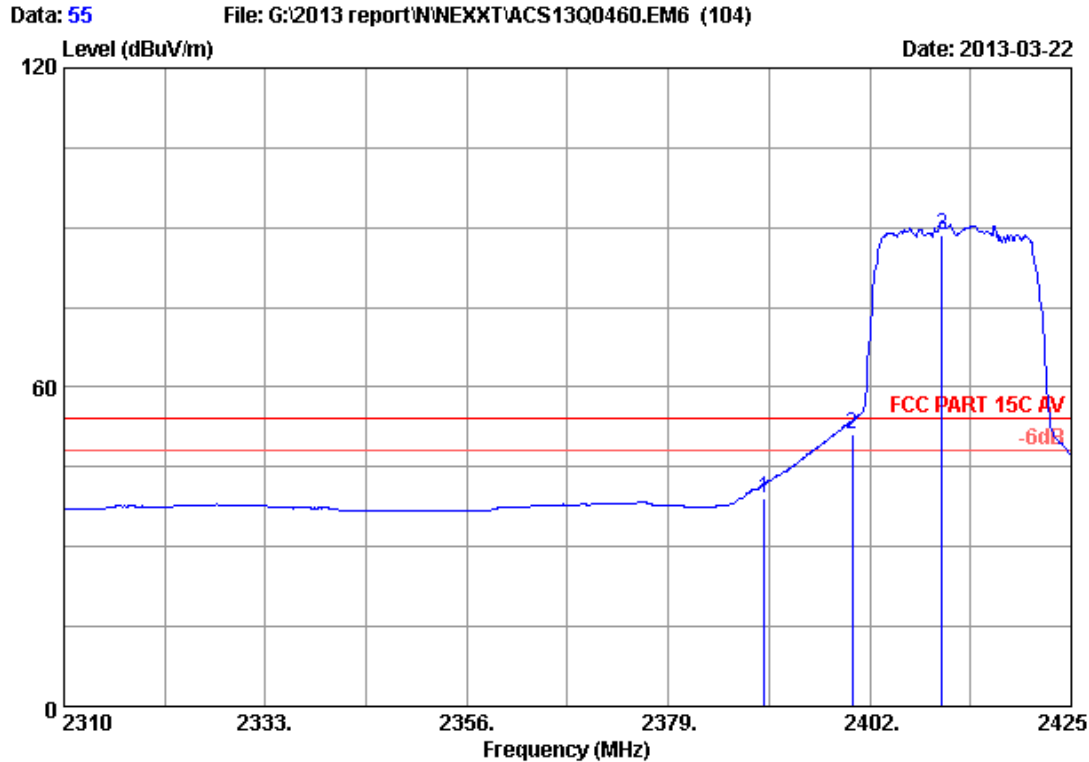


Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	48.55	45.33	54.00	8.67	Average
2	2400.000	26.76	6.02	35.92	60.38	57.24	54.00	-3.24	Average
3	2406.025	26.80	6.03	35.92	96.41	93.32	54.00	-39.32	Average

Remarks:

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

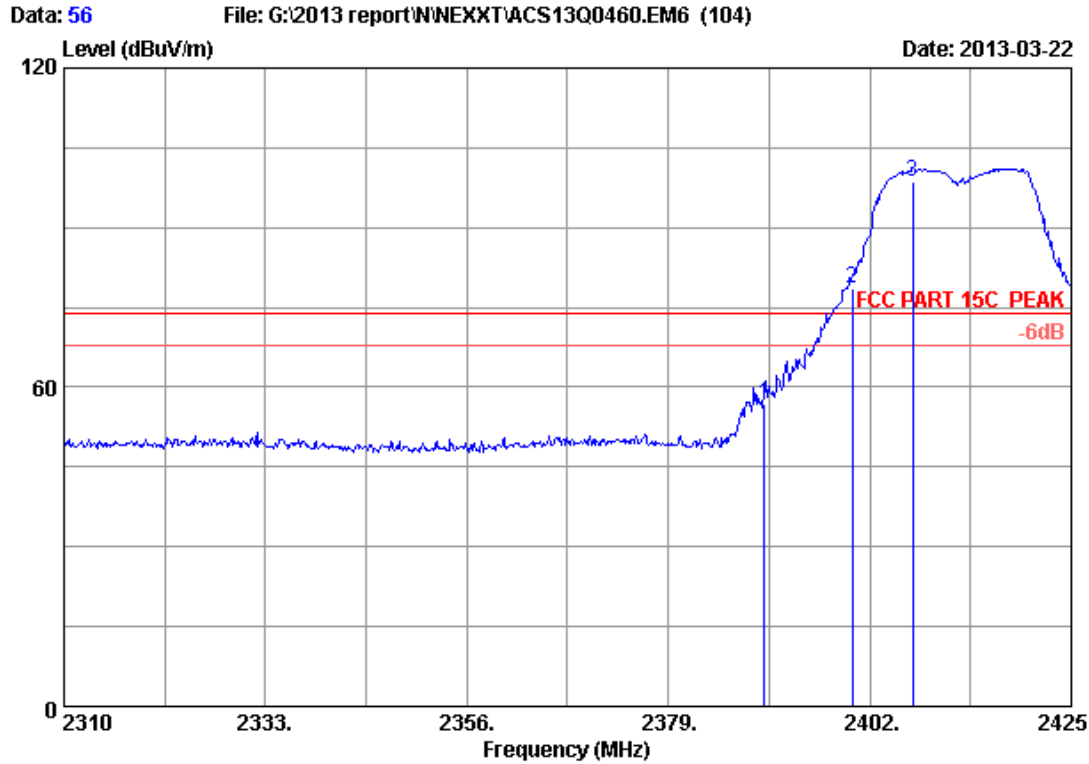


Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	42.41	39.19	54.00	14.81	Average
2	2400.000	26.76	6.02	35.92	54.26	51.12	54.00	2.88	Average
3	2410.280	26.83	6.03	35.92	91.51	88.45	54.00	-34.45	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.

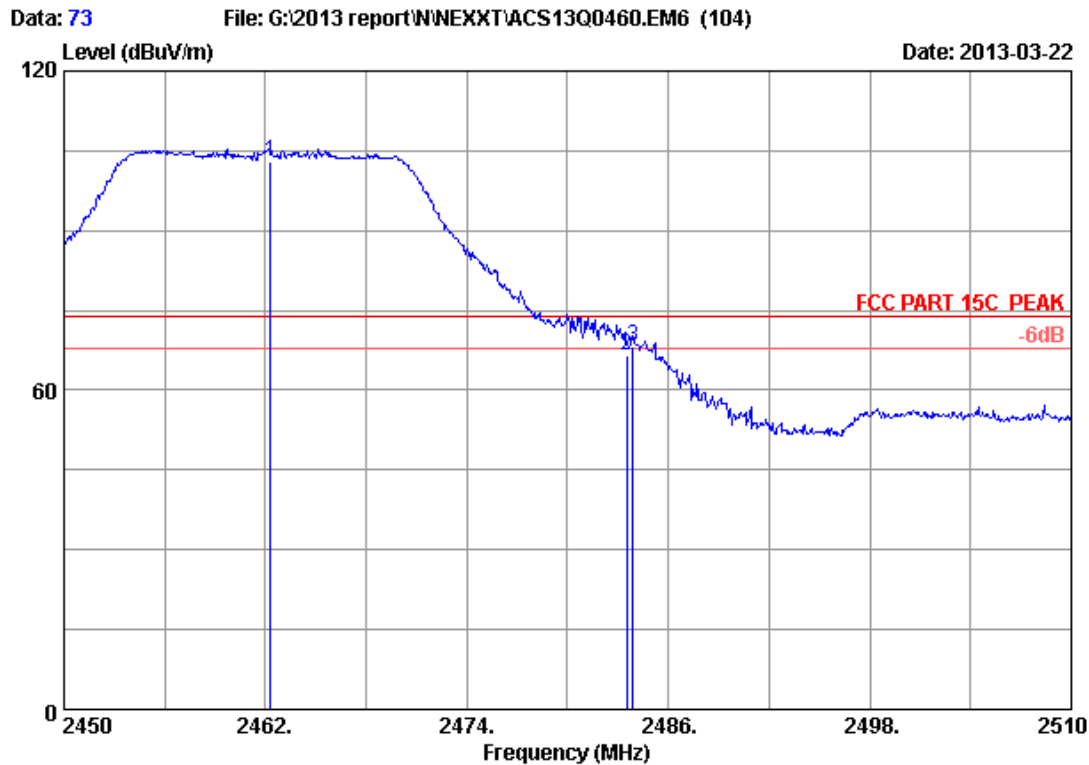


Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	60.09	56.87	74.00	17.13	Peak
2	2400.000	26.76	6.02	35.92	81.65	78.51	74.00	-4.51	Peak
3	2406.945	26.80	6.03	35.92	101.55	98.46	74.00	-24.46	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.

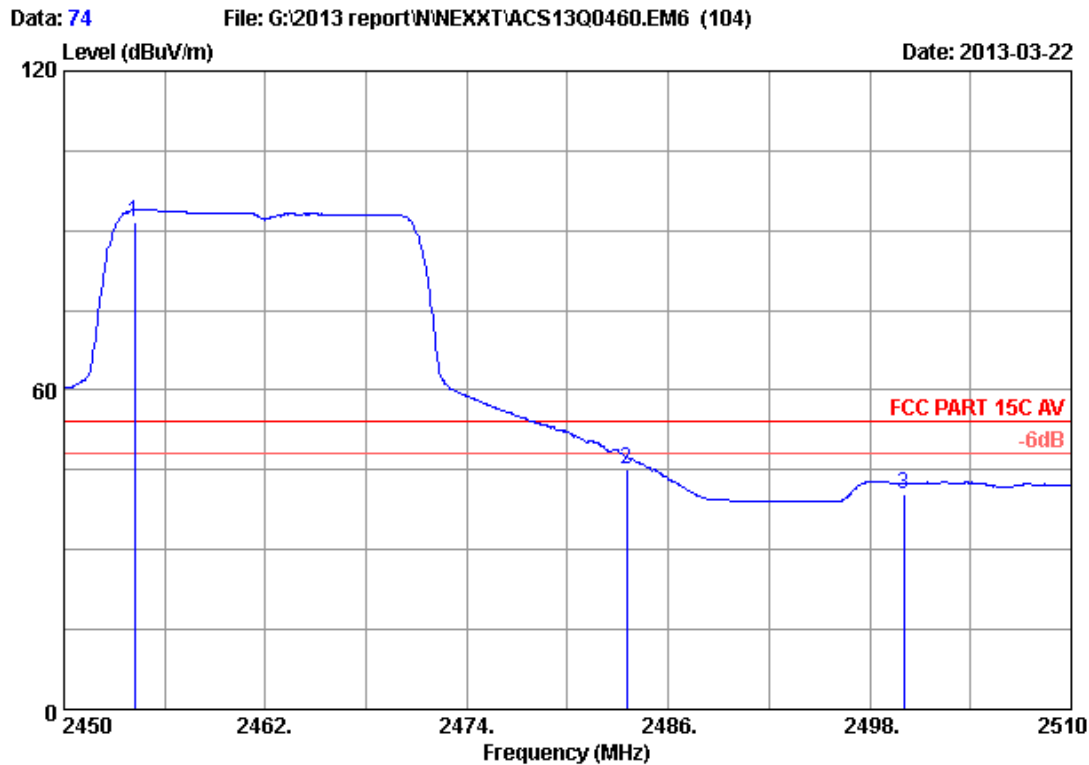


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	2462.300	27.16	6.12	35.92	105.66	103.02	74.00	-29.02	Peak
2	2483.500	27.29	6.16	35.92	68.98	66.51	74.00	7.49	Peak
3	2483.900	27.30	6.16	35.92	70.54	68.08	74.00	5.92	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.

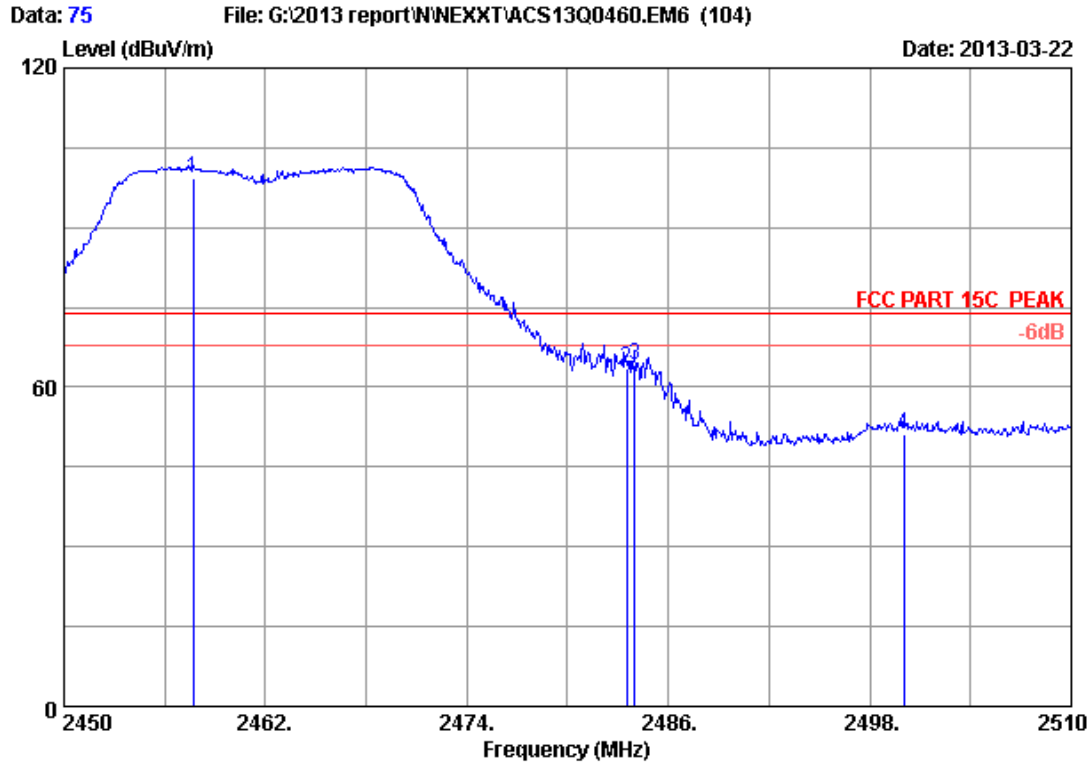


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	2454.200	27.11	6.11	35.92	94.23	91.53	54.00	-37.53	Average
2	2483.500	27.29	6.16	35.92	47.70	45.23	54.00	8.77	Average
3	2500.000	27.40	6.19	35.93	42.73	40.39	54.00	13.61	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.

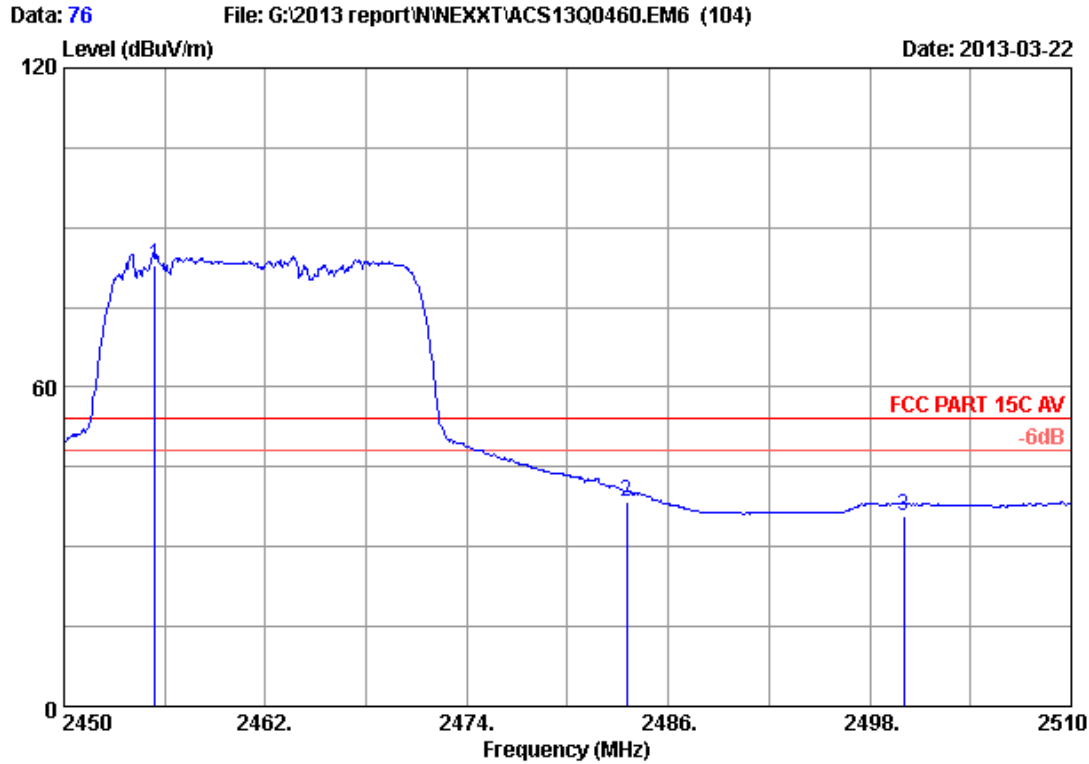


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	2457.680	27.13	6.12	35.92	101.79	99.12	74.00	-25.12	Peak
2	2483.500	27.29	6.16	35.92	66.01	63.54	74.00	10.46	Peak
3	2484.020	27.30	6.16	35.92	66.63	64.17	74.00	9.83	Peak
4	2500.000	27.40	6.19	35.93	53.54	51.20	74.00	22.80	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.

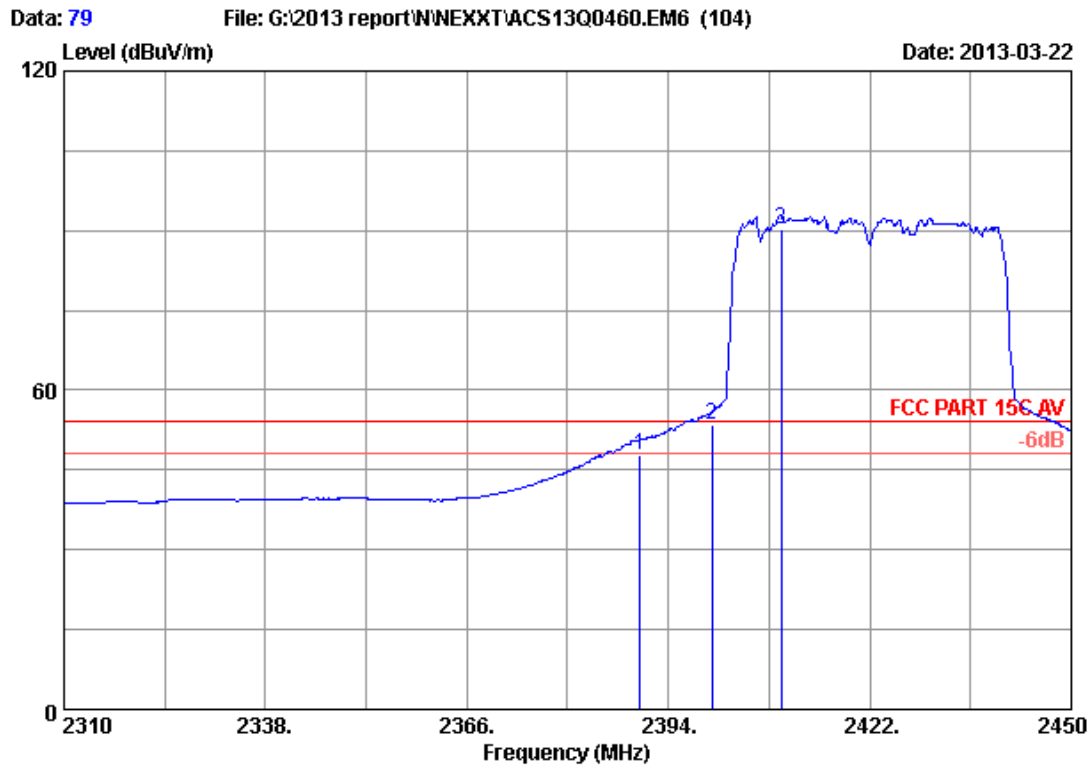


Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : APLDT300N1
 :

	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	2455.400	27.11	6.11	35.92	85.68	82.98	54.00	-28.98	Average
2	2483.500	27.29	6.16	35.92	40.77	38.30	54.00	15.70	Average
3	2500.000	27.40	6.19	35.93	38.25	35.91	54.00	18.09	Average

Remarks:

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

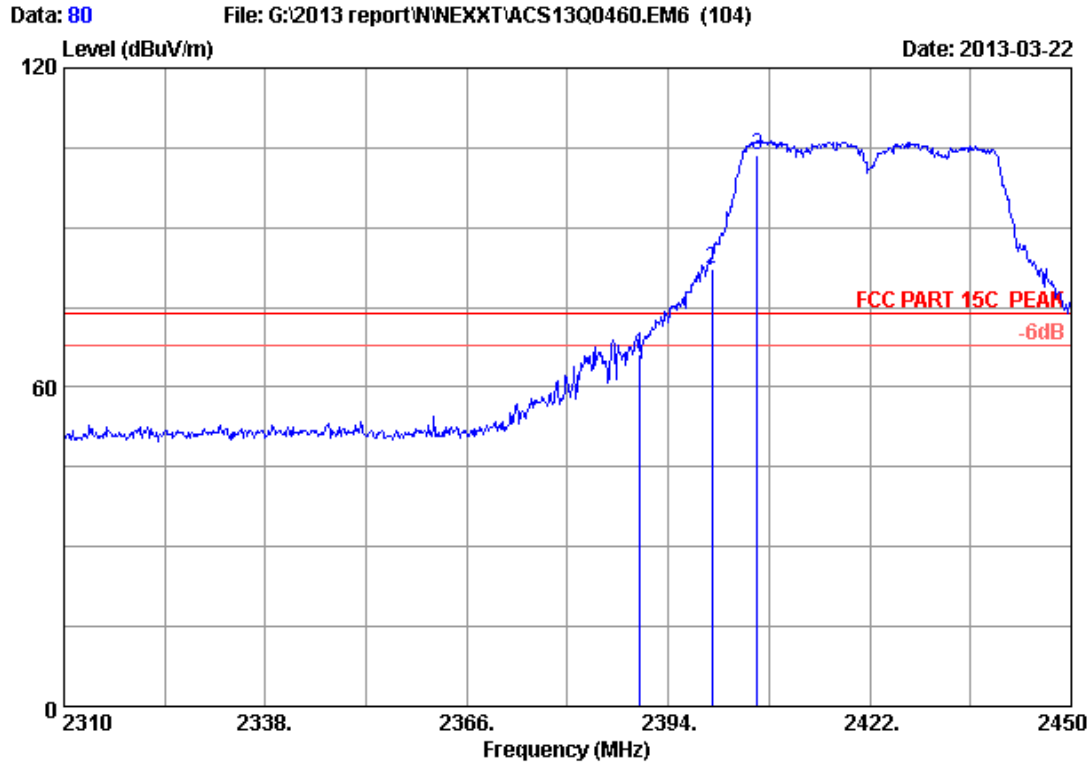


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	50.88	47.66	54.00	6.34	Average
2	2400.000	26.76	6.02	35.92	56.48	53.34	54.00	0.66	Average
3	2409.680	26.82	6.03	35.92	93.37	90.30	54.00	-36.30	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.

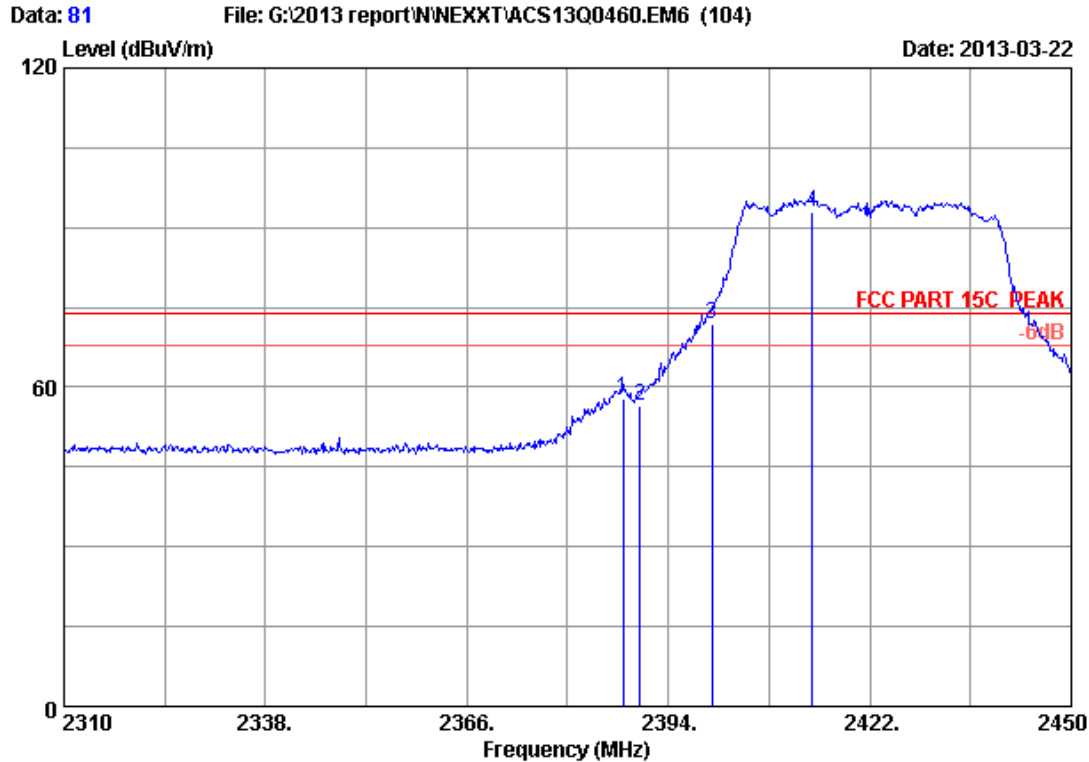


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	69.38	66.16	74.00	7.84	Peak
2	2400.000	26.76	6.02	35.92	85.48	82.34	74.00	-8.34	Peak
3	2406.320	26.80	6.03	35.92	106.76	103.67	74.00	-29.67	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.

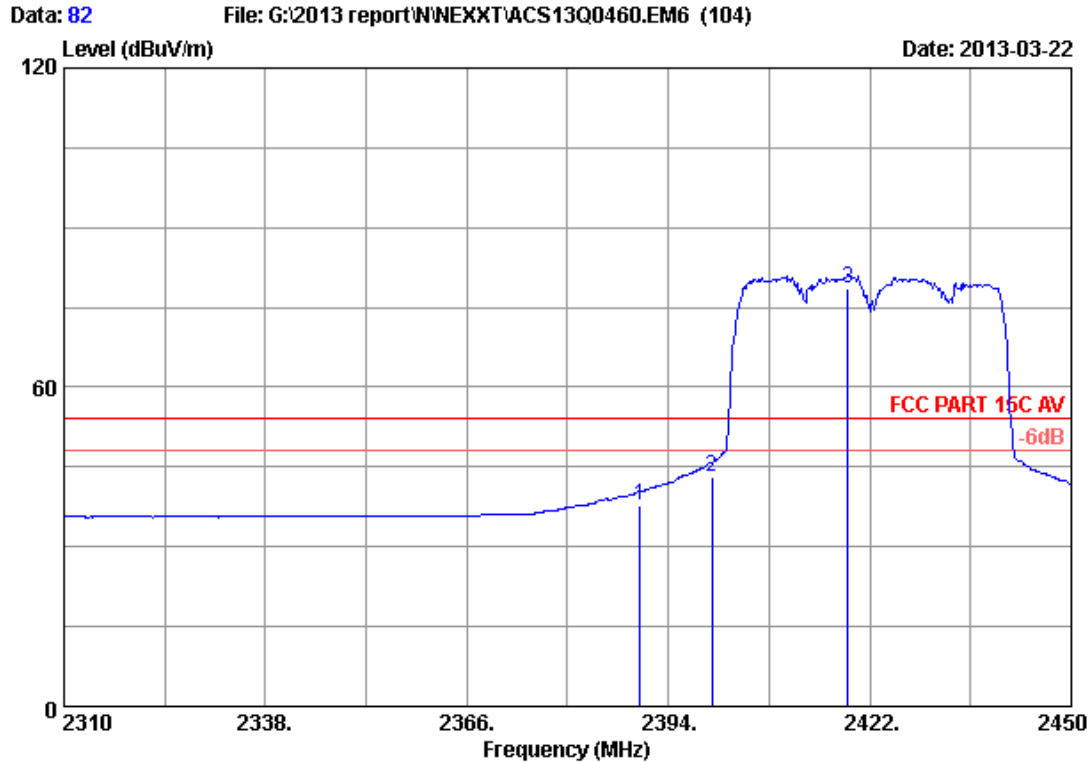


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.700	26.68	6.00	35.92	61.08	57.84	74.00	16.16	Peak
2	2390.000	26.70	6.00	35.92	59.55	56.33	74.00	17.67	Peak
3	2400.000	26.76	6.02	35.92	74.88	71.74	74.00	2.26	Peak
4	2414.020	26.85	6.04	35.92	95.96	92.93	74.00	-18.93	Peak

Remarks:

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

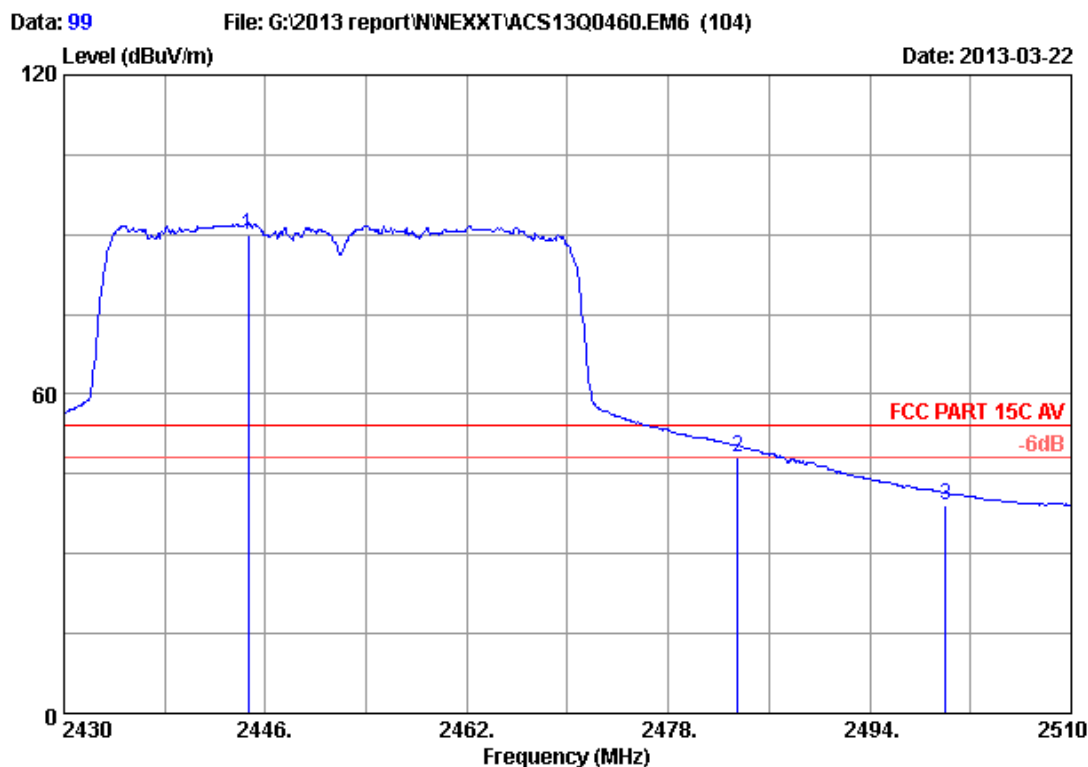


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : APLDT300N1
 :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	26.70	6.00	35.92	40.95	37.73	54.00	16.27	Average
2	2400.000	26.76	6.02	35.92	46.18	43.04	54.00	10.96	Average
3	2418.920	26.88	6.05	35.92	81.43	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.

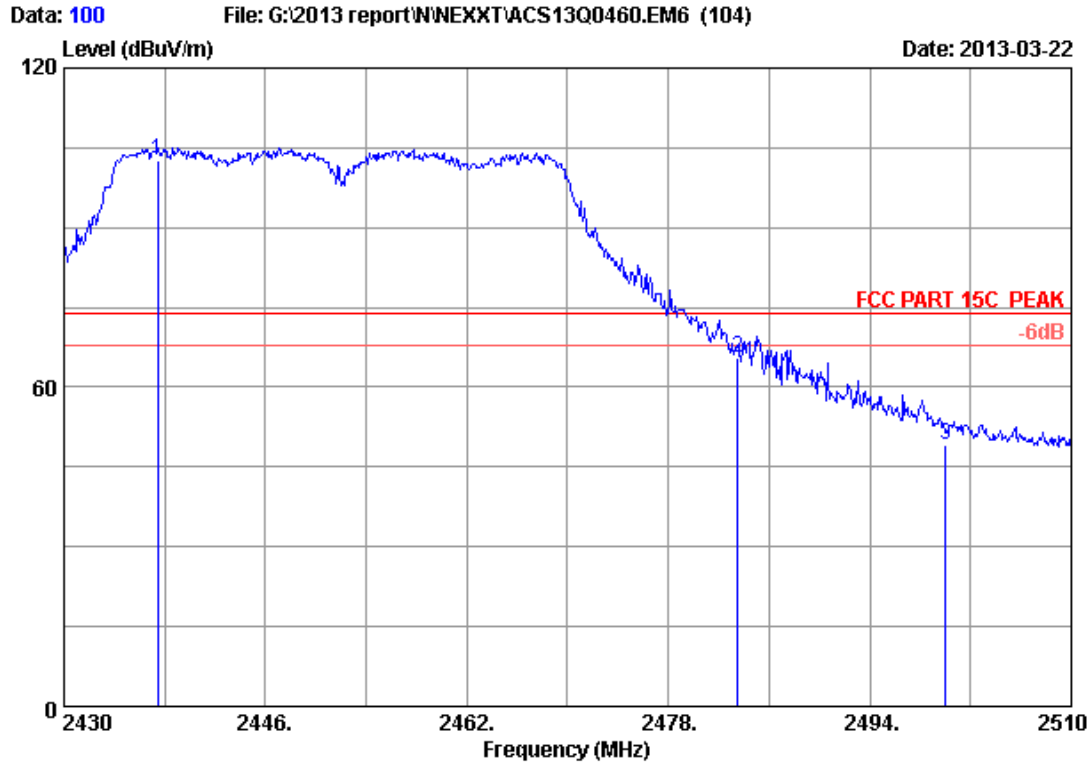


Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : APLDT300N1
 :

	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	2444.640	27.05	6.09	35.92	92.58	89.80	54.00	-35.80	Average
2	2483.500	27.29	6.16	35.92	50.57	48.10	54.00	5.90	Average
3	2500.000	27.40	6.19	35.93	41.58	39.24	54.00	14.76	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.

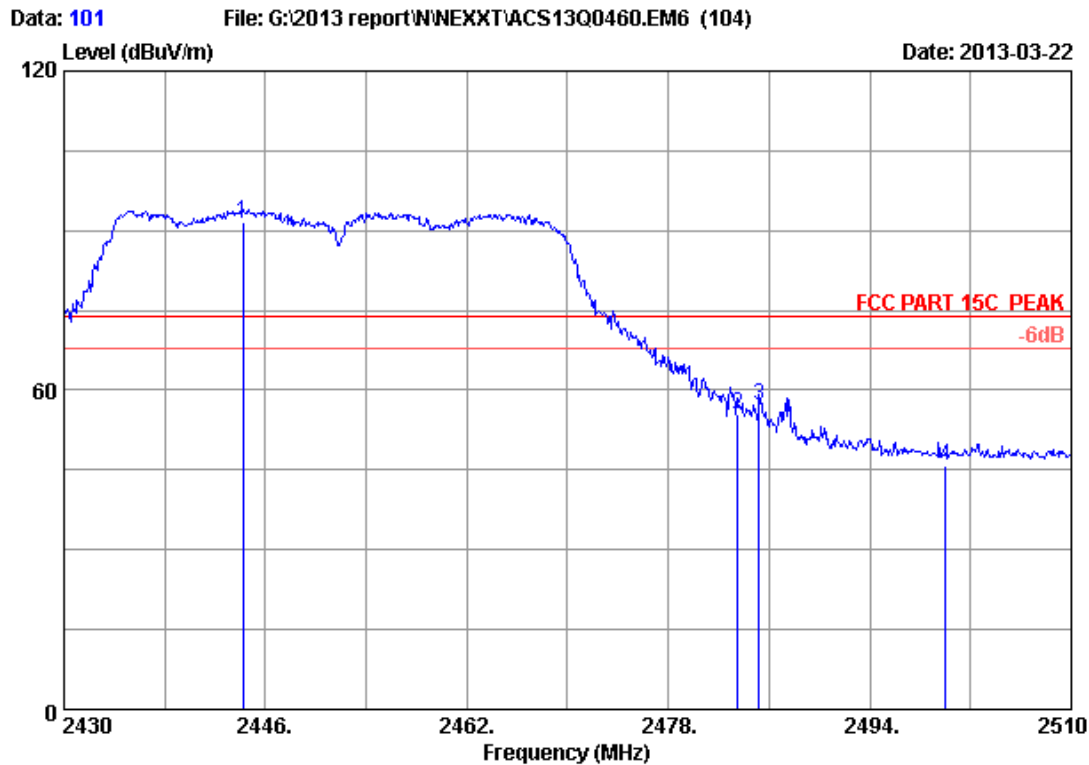


Site no. : 3m Chamber Data no. : 100
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : APLDT300N1
 :

	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	2437.440	27.00	6.08	35.92	105.47	102.63	74.00	-28.63	Peak
2	2483.500	27.29	6.16	35.92	67.98	65.51	74.00	8.49	Peak
3	2500.000	27.40	6.19	35.93	51.51	49.17	74.00	24.83	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.

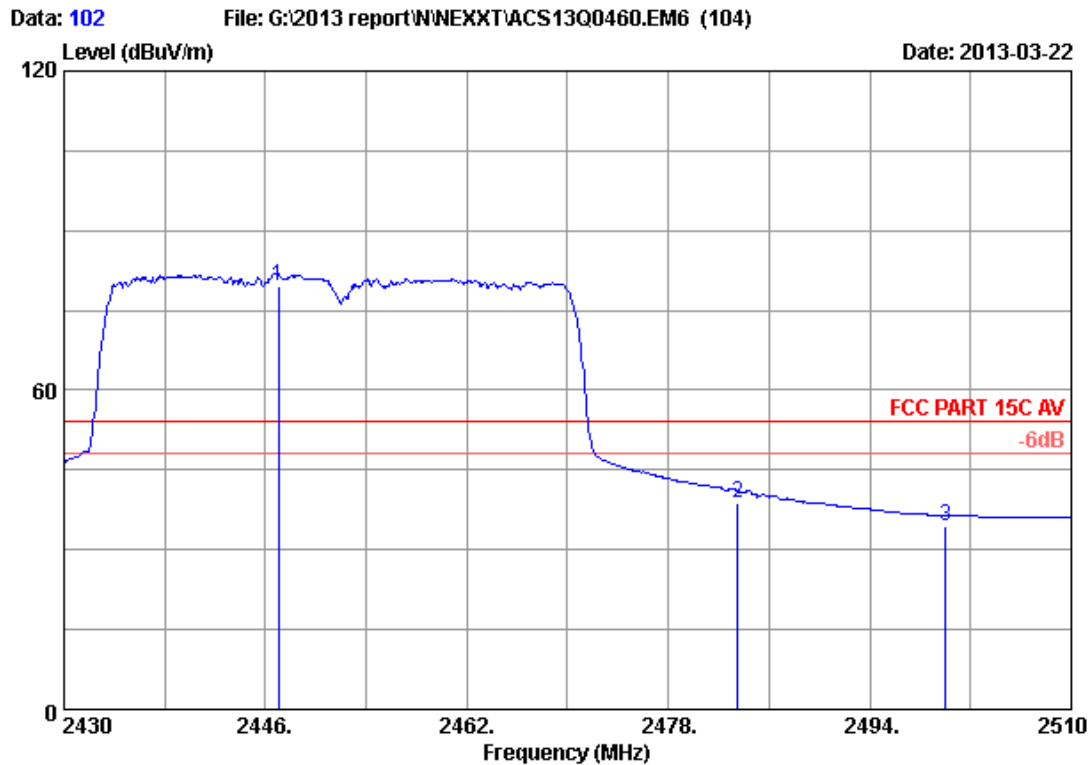


Site no. : 3m Chamber Data no. : 101
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : APLDT300N1
 :

	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	2444.240	27.04	6.09	35.92	94.23	91.44	74.00	-17.44	Peak
2	2483.500	27.29	6.16	35.92	58.07	55.60	74.00	18.40	Peak
3	2485.200	27.31	6.16	35.92	59.46	57.01	74.00	16.99	Peak
4	2500.000	27.40	6.19	35.93	48.16	45.82	74.00	28.18	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. : 102
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N PCI Adapter
 Power supply : DC 3.3V From PC input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : APLDT300N1
 :

	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	2447.040	27.06	6.10	35.92	82.36	79.60	54.00	-25.60	Average
2	2483.500	27.29	6.16	35.92	41.30	38.83	54.00	15.17	Average
3	2500.000	27.40	6.19	35.93	36.62	34.28	54.00	19.72	Average

Remarks:

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

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	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	1 Year
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 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

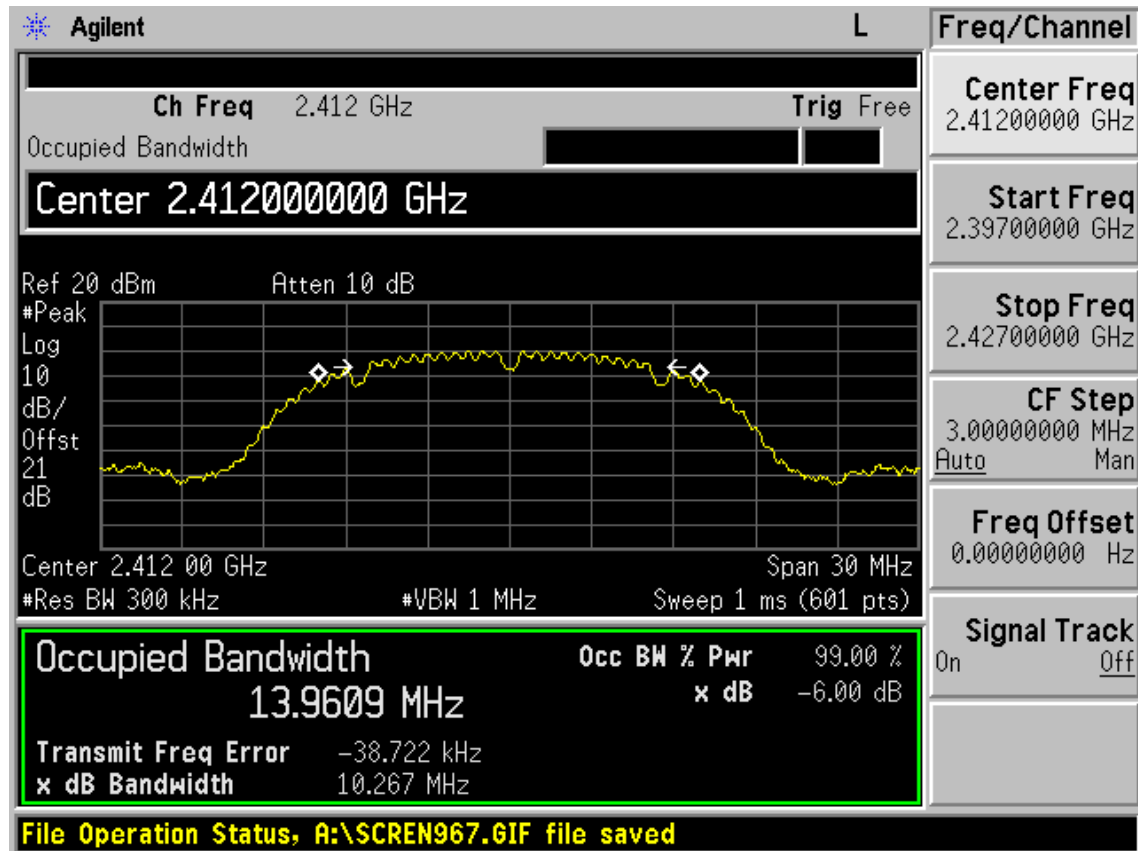
EUT: 300Mbps Wireless N PCI Adapter		
M/N: APLDT300N1		
Test date: 2013-03-22	Pressure: 101.3±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 21.9±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Chain0	Chain1	
11b	CH1	10.267	10.274	>500
	CH6	10.276	10.276	>500
	CH11	10.273	10.275	>500
11g	CH1	16.514	16.544	>500
	CH6	16.483	16.539	>500
	CH11	16.521	16.511	>500
11n HT20	CH1	17.773	17.790	>500
	CH6	17.756	17.802	>500
	CH11	17.856	17.759	>500
11n HT40	CH1	36.669	36.468	>500
	CH4	36.576	36.461	>500
	CH7	36.548	36.555	>500
Conclusion : PASS				

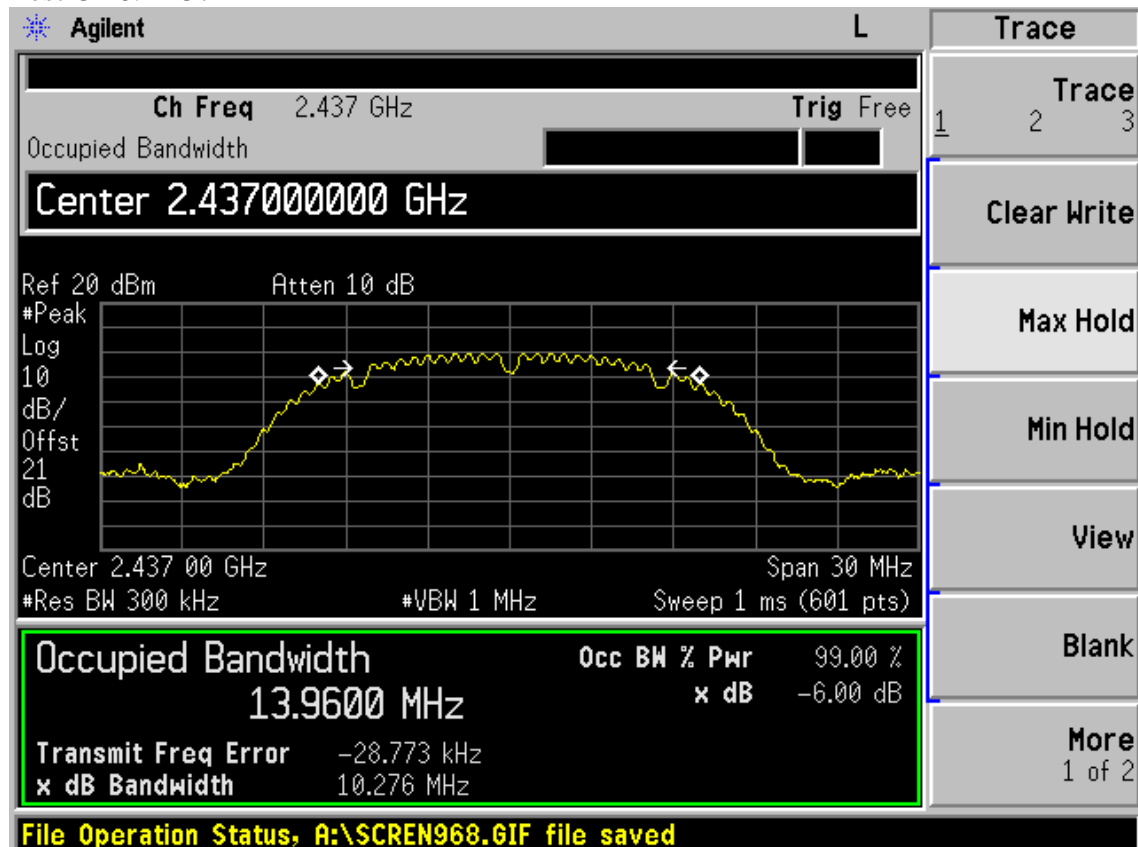
Chain 0:

Test Mode: IEEE 802.11b TX

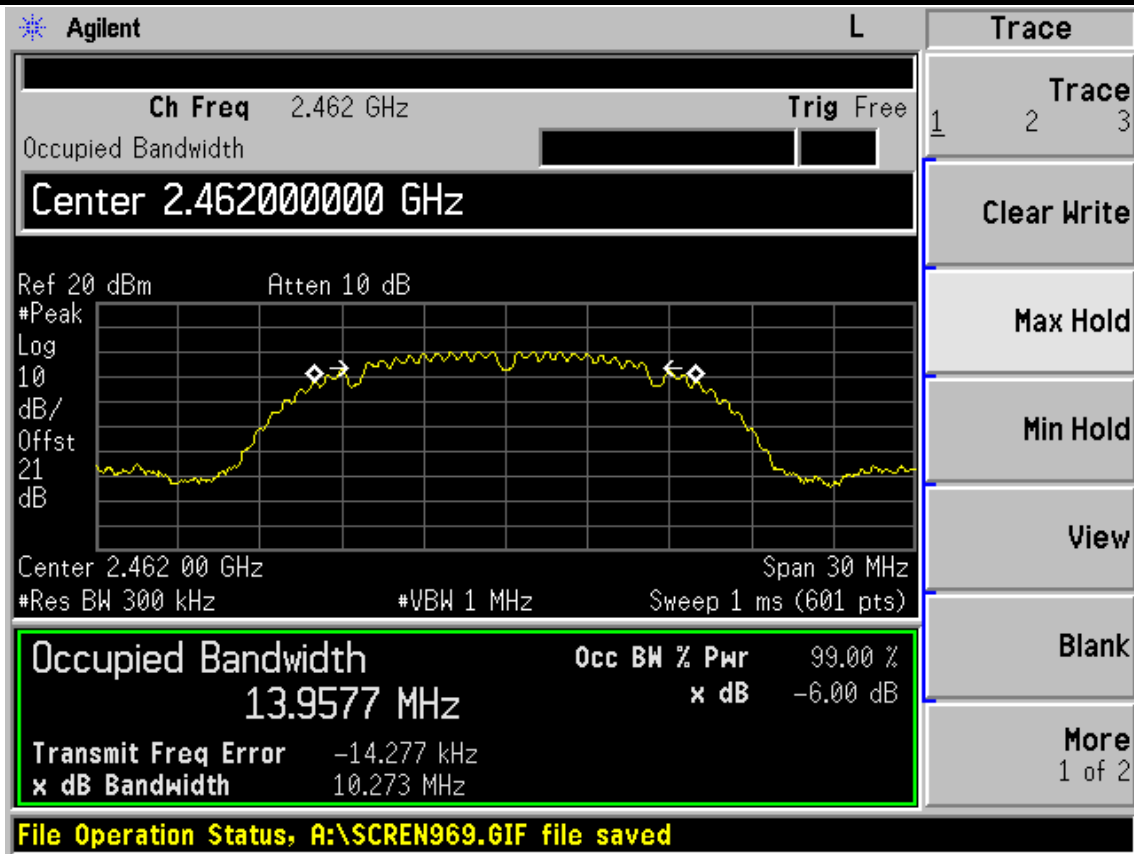
Test CH1: 2412MHz



Test CH6: 2437MHz

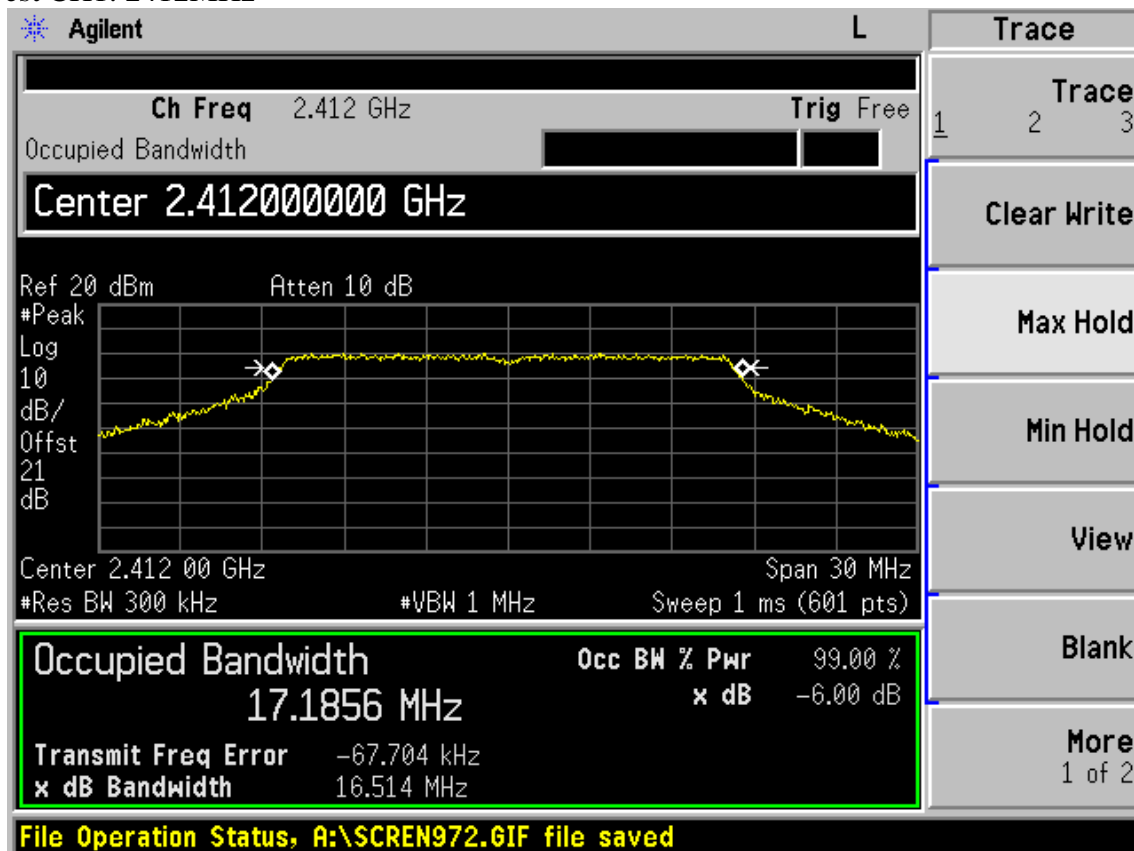


Test CH11: 2462MHz

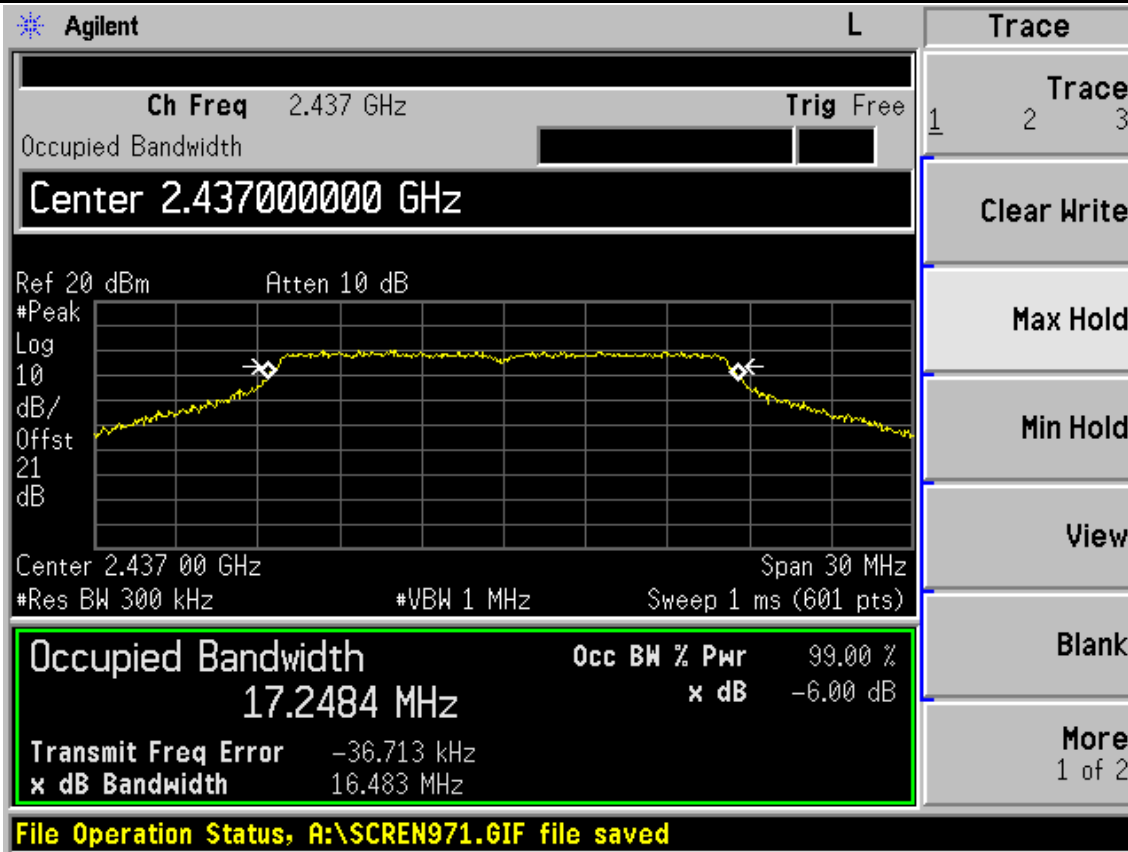


Test Mode: IEEE 802.11g TX

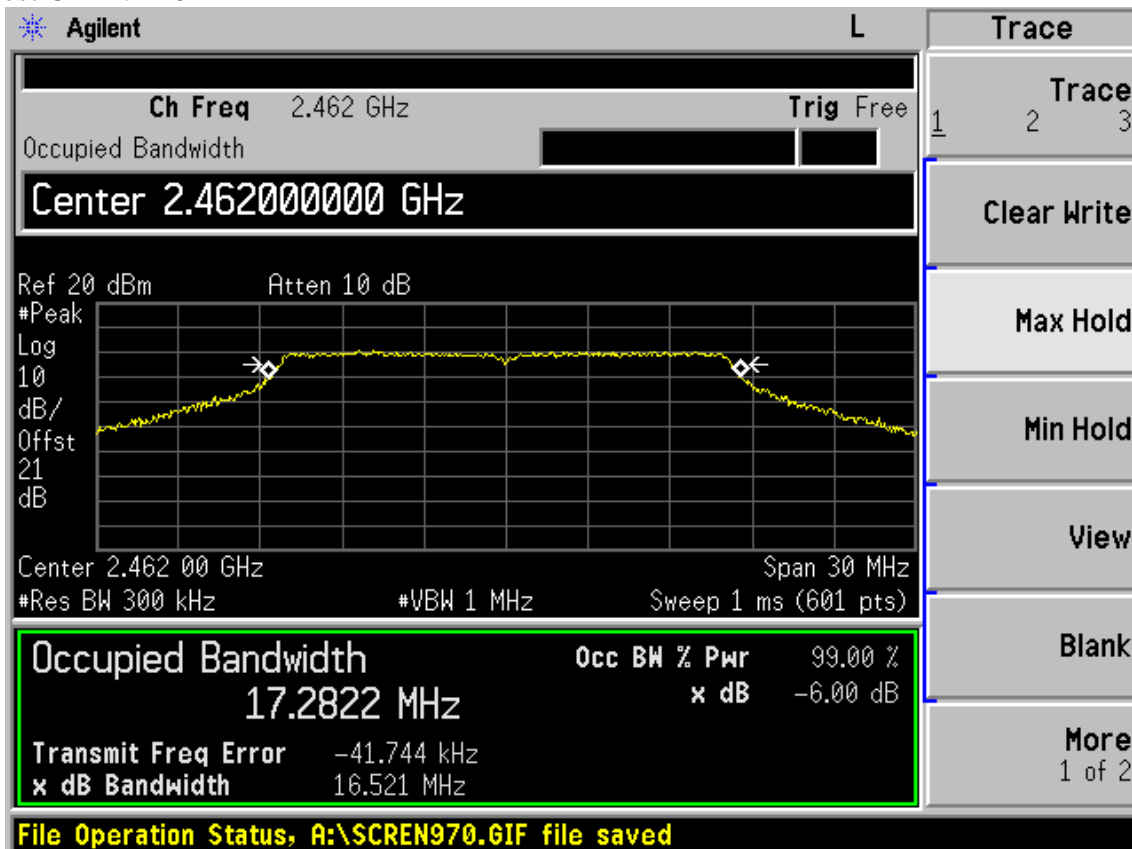
Test CH1: 2412MHz



Test CH6: 2437MHz

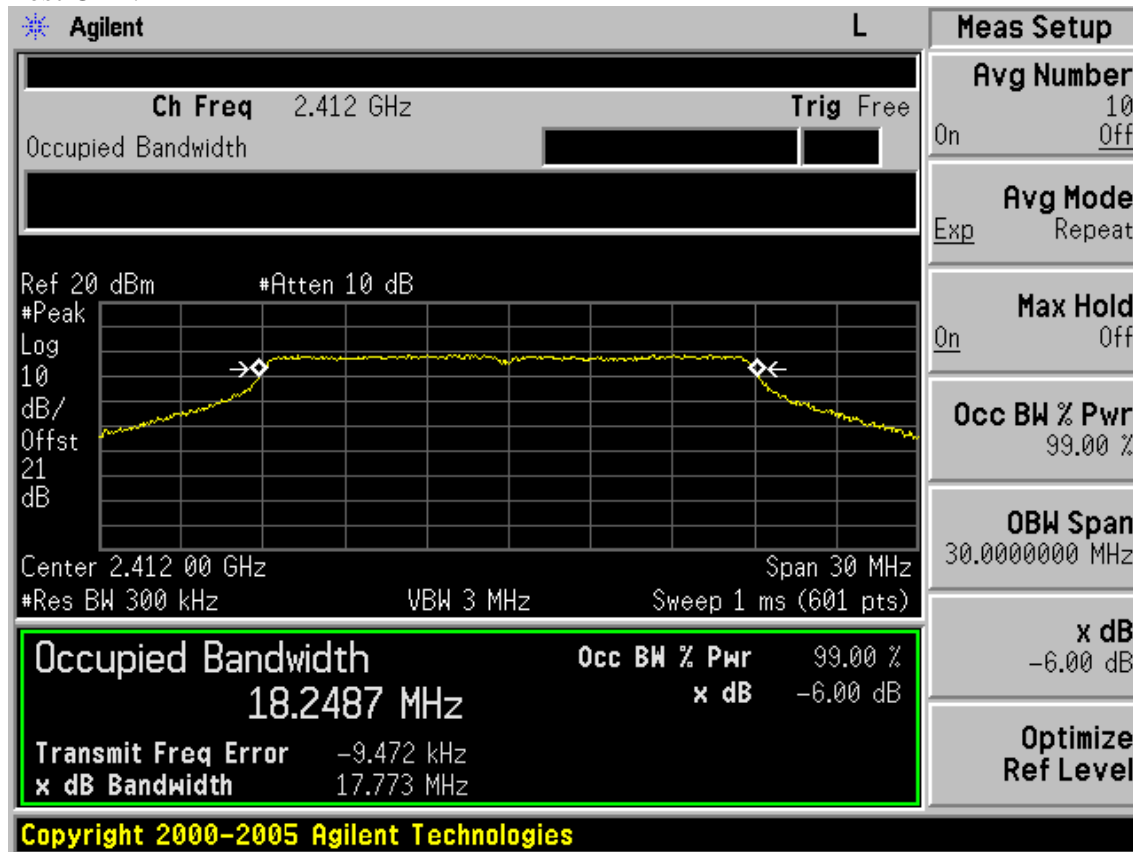


Test CH11: 2462MHz

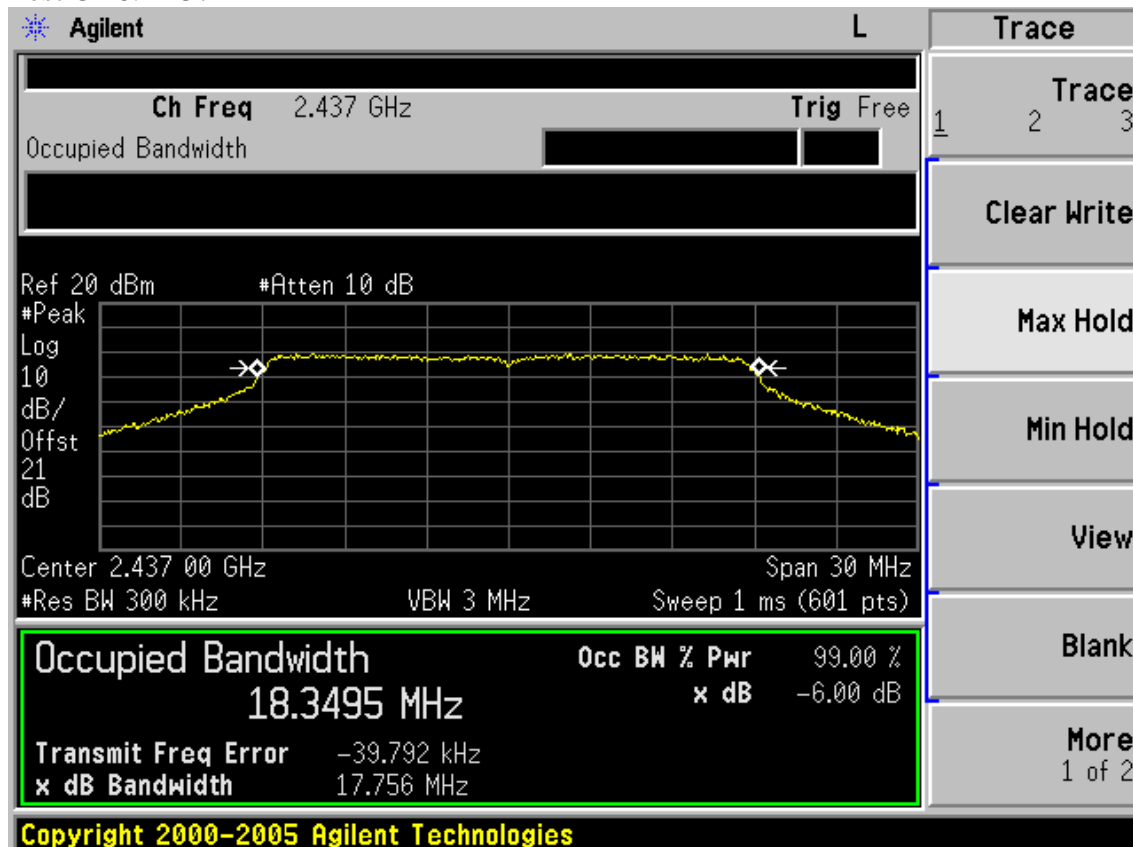


Test Mode: IEEE 802.11n HT20 TX

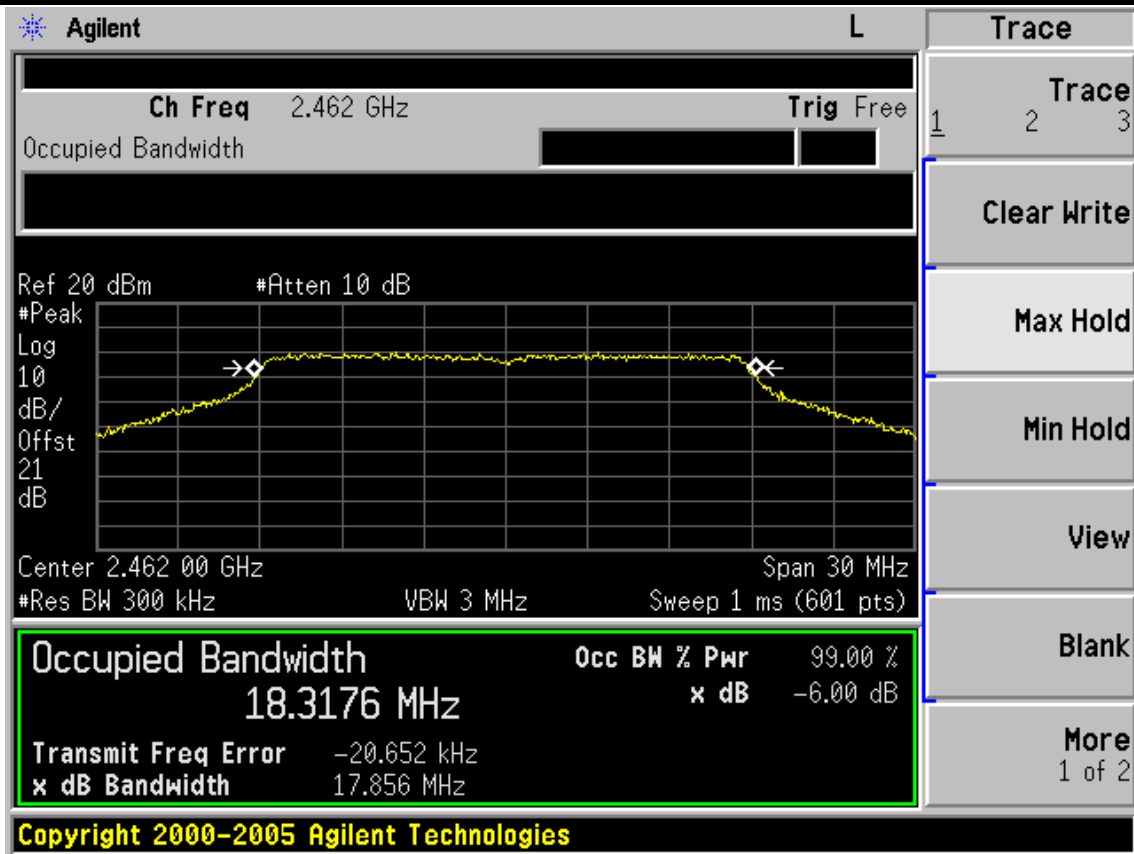
Test CH1: 2412MHz



Test CH6: 2437MHz

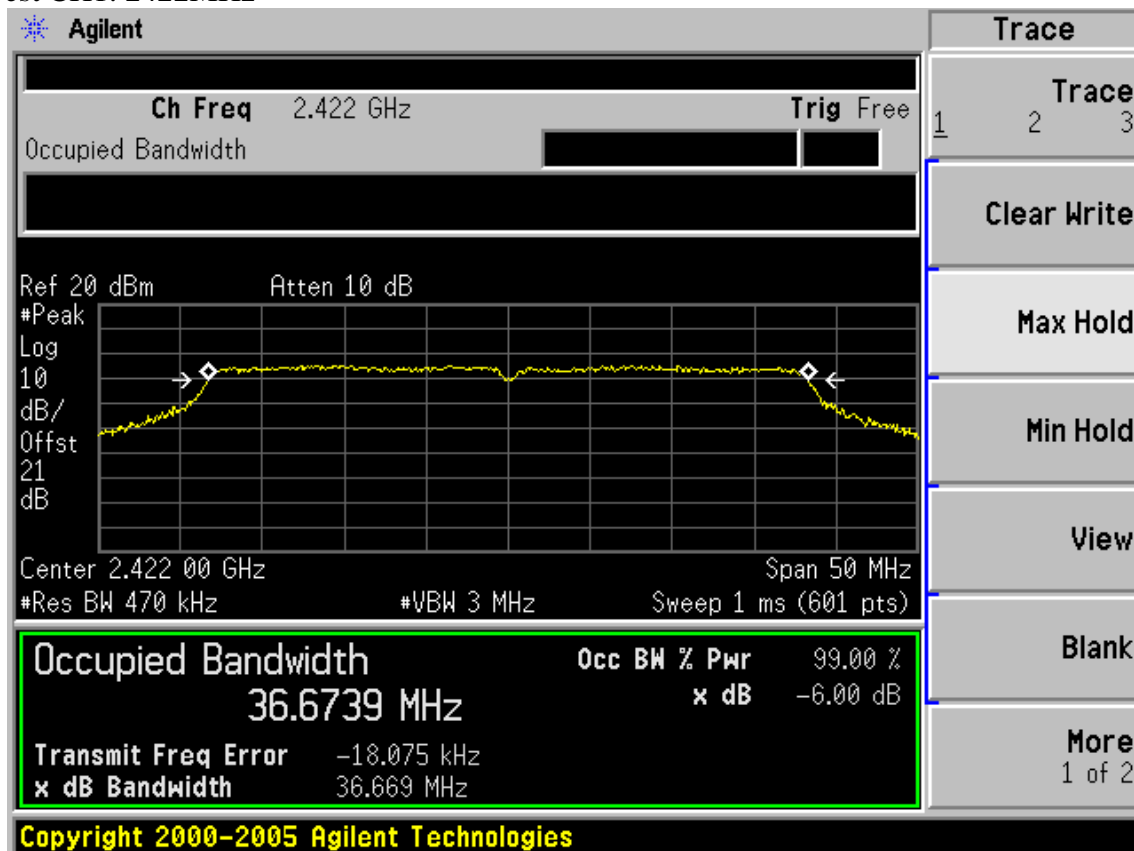


Test CH11: 2462MHz

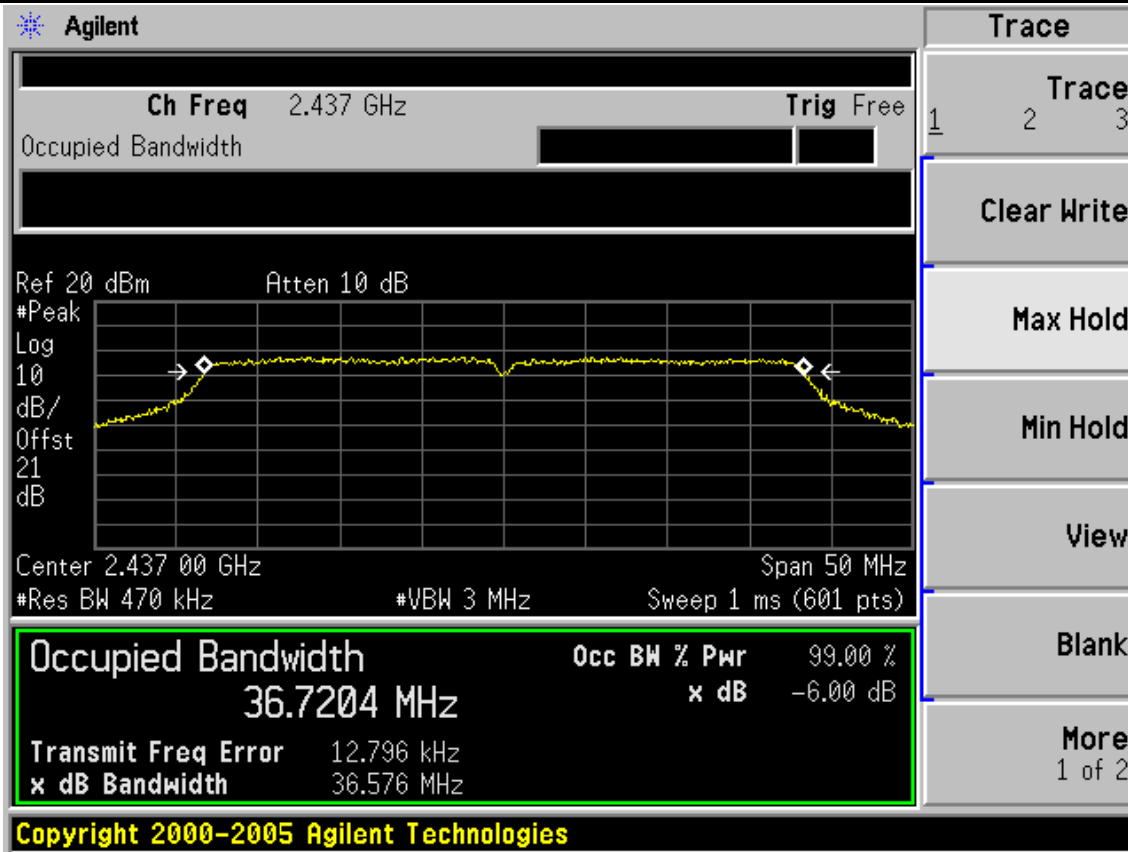


Test Mode: IEEE 802.11n HT40 TX

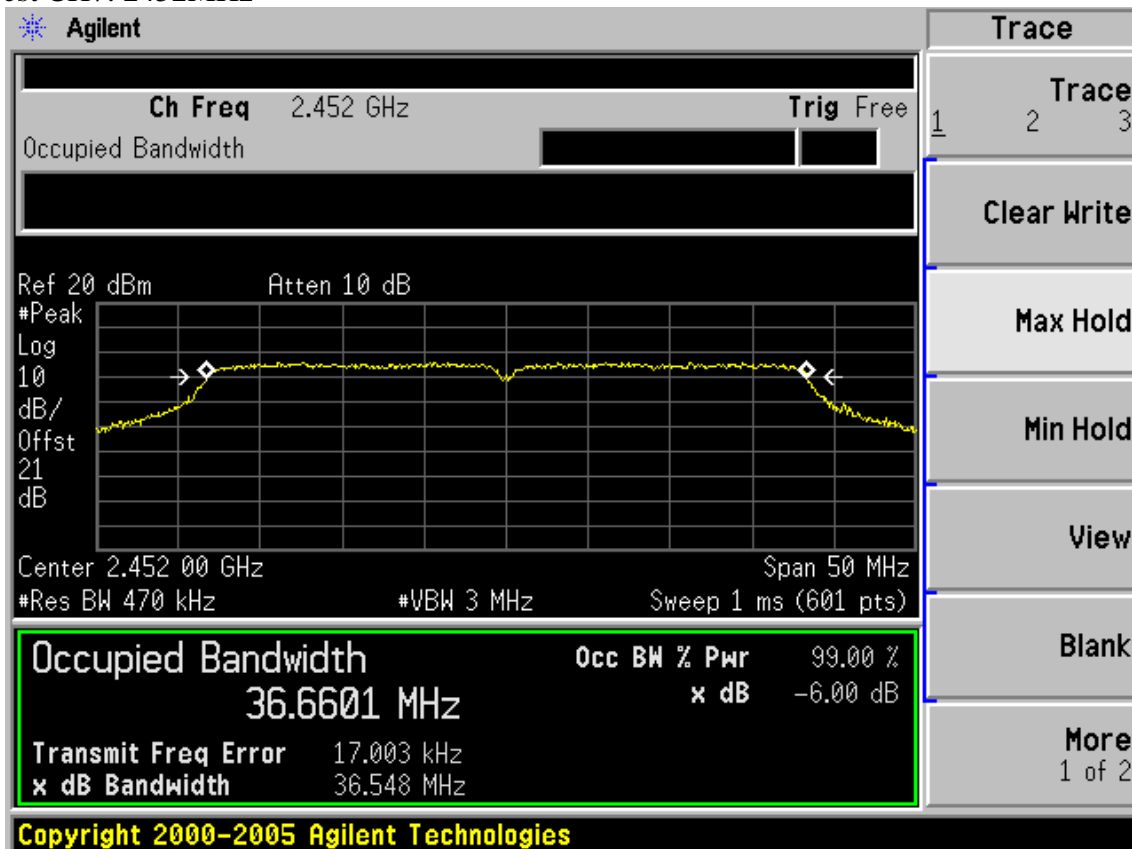
Test CH1: 2422MHz



Test CH4: 2437MHz



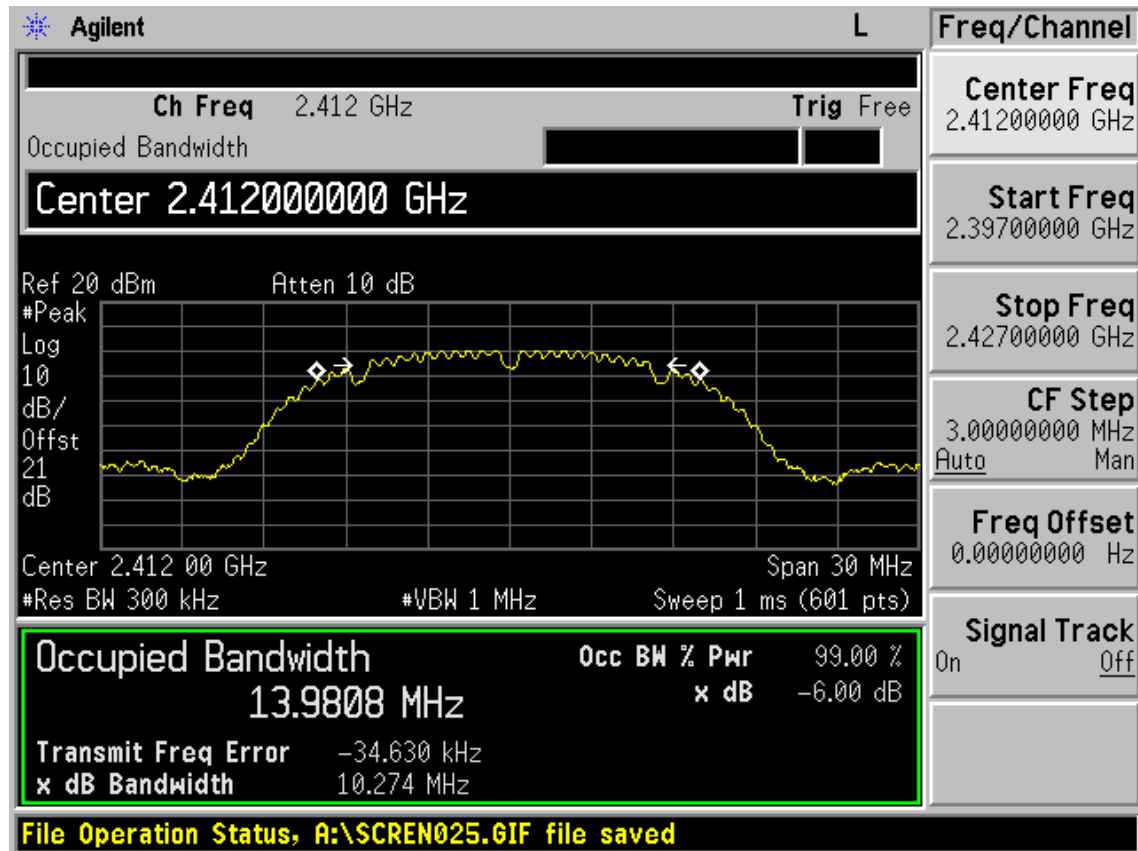
Test CH7: 2452MHz



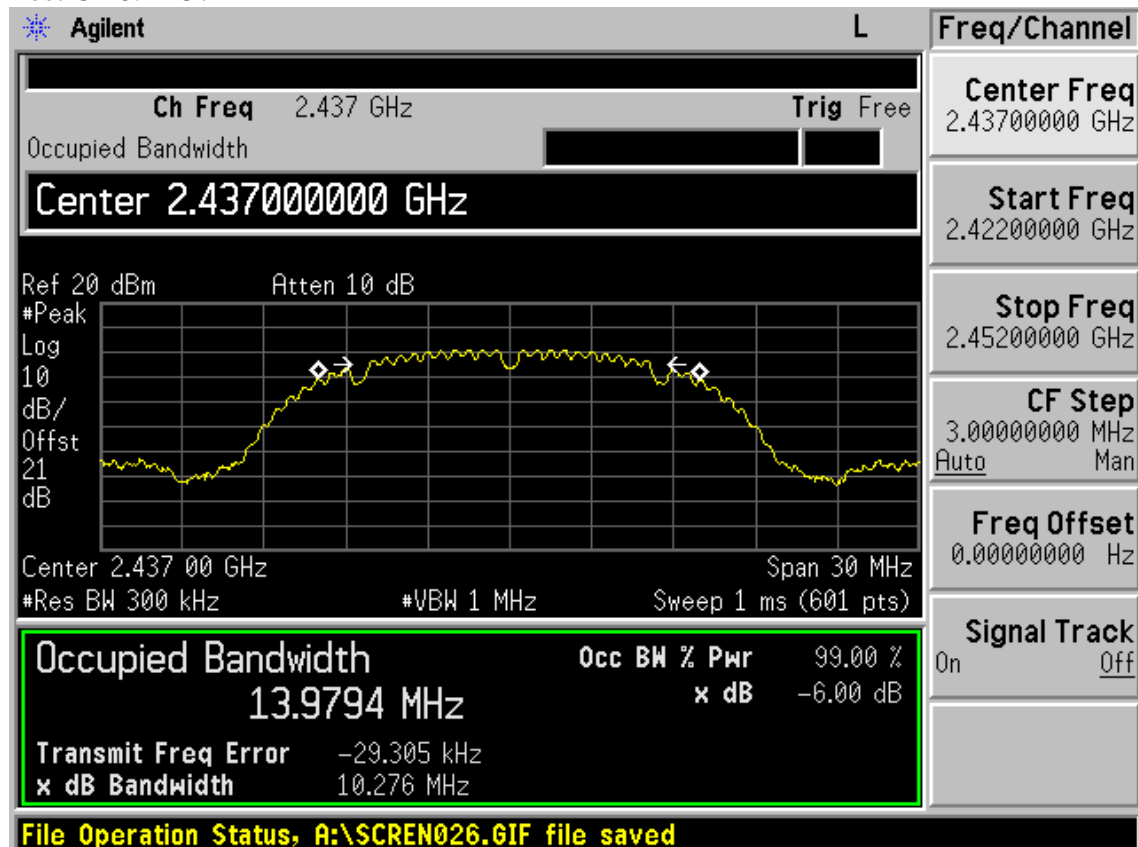
Chain 1:

Test Mode: IEEE 802.11b TX

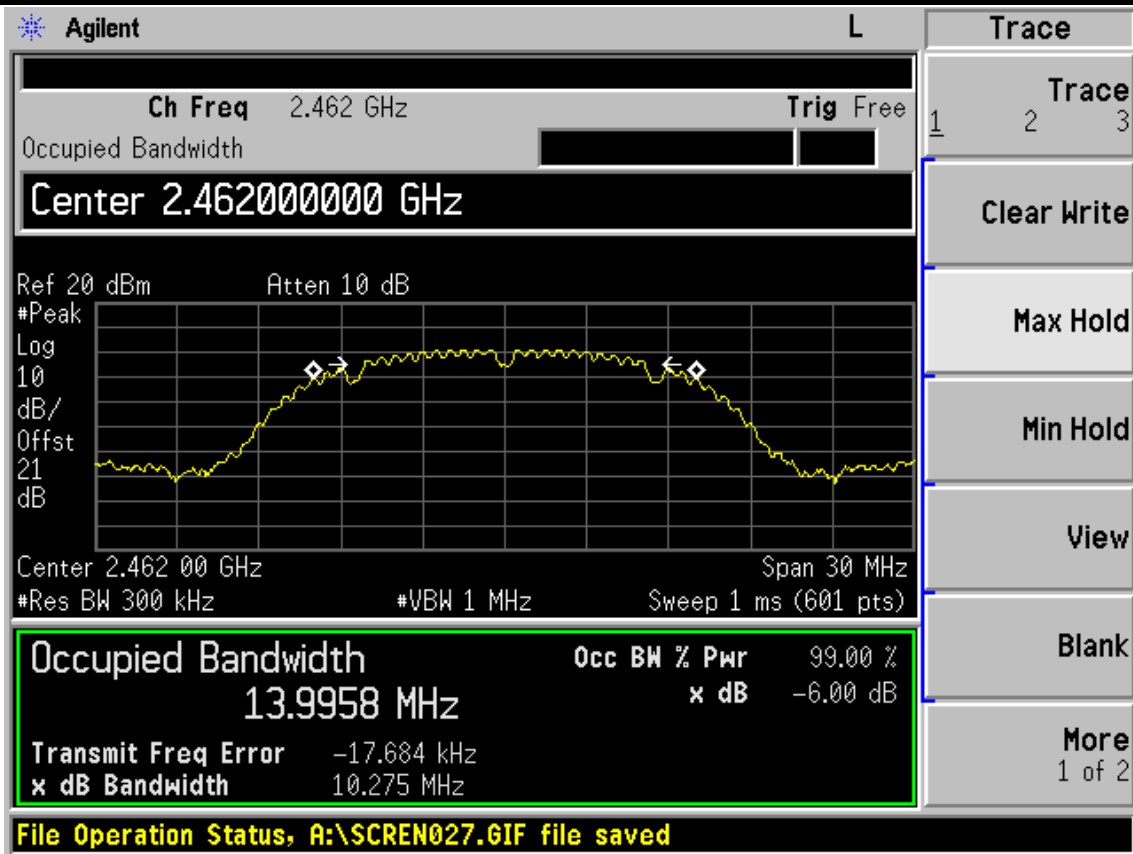
Test CH1: 2412MHz



Test CH6: 2437MHz

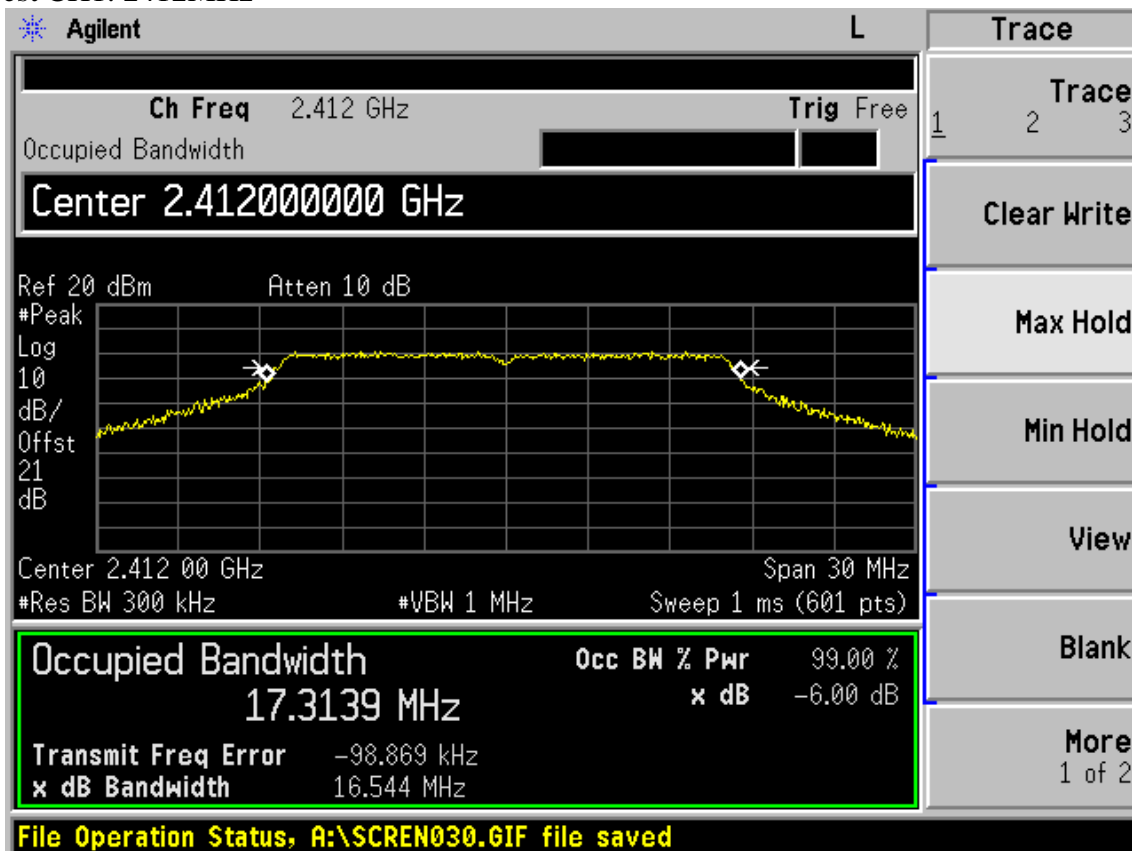


Test CH11: 2462MHz

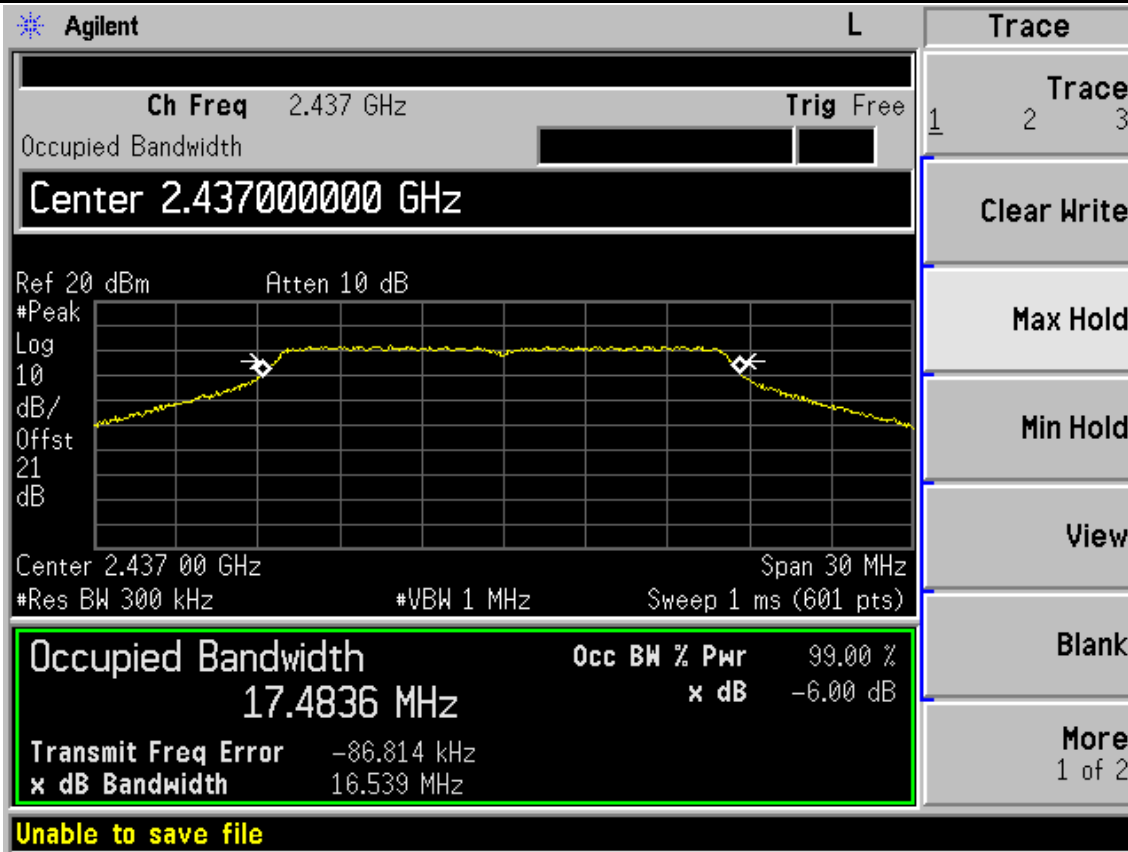


Test Mode: IEEE 802.11g TX

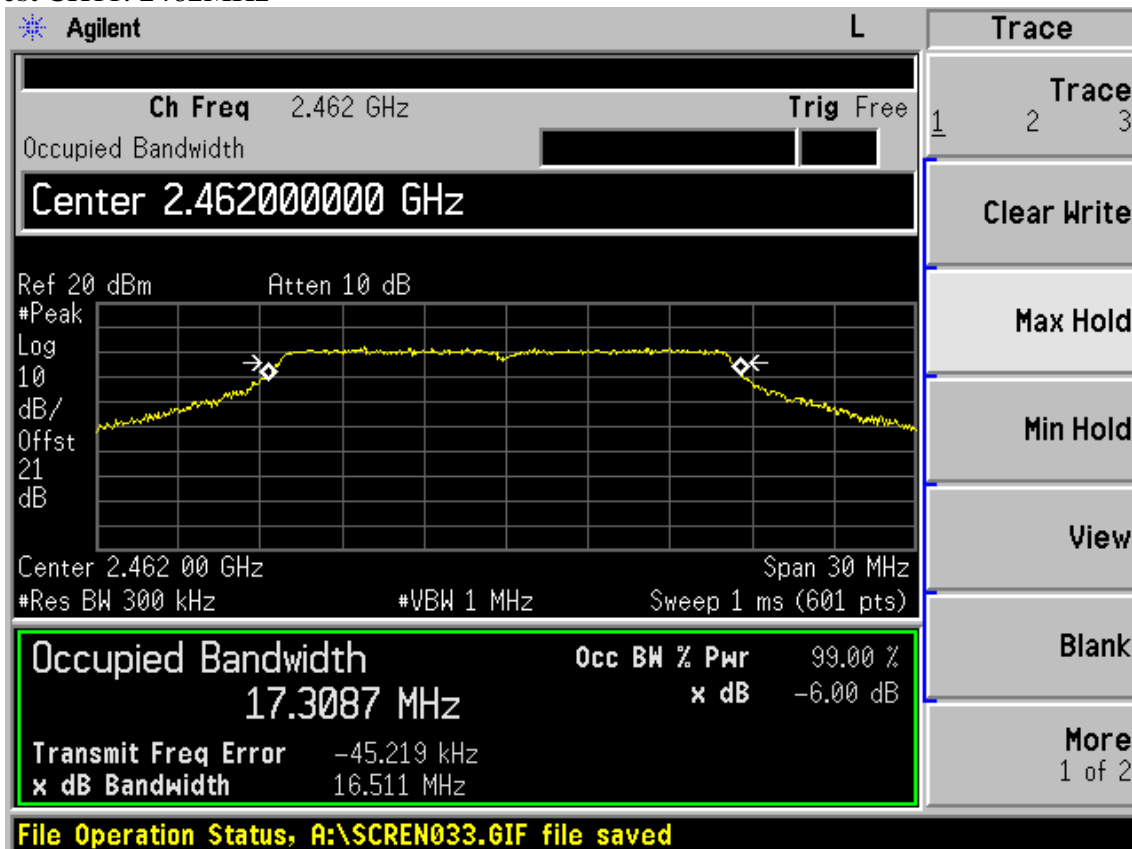
Test CH1: 2412MHz



Test CH6: 2437MHz

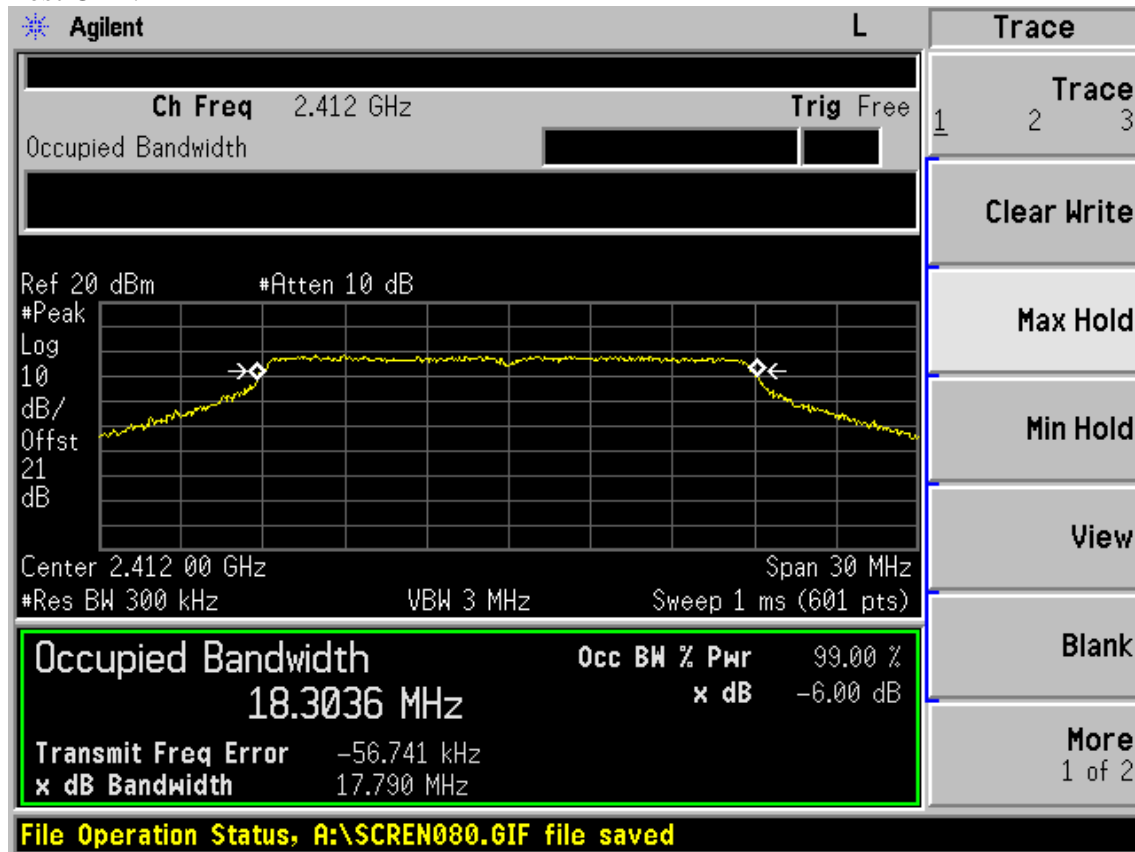


Test CH11: 2462MHz

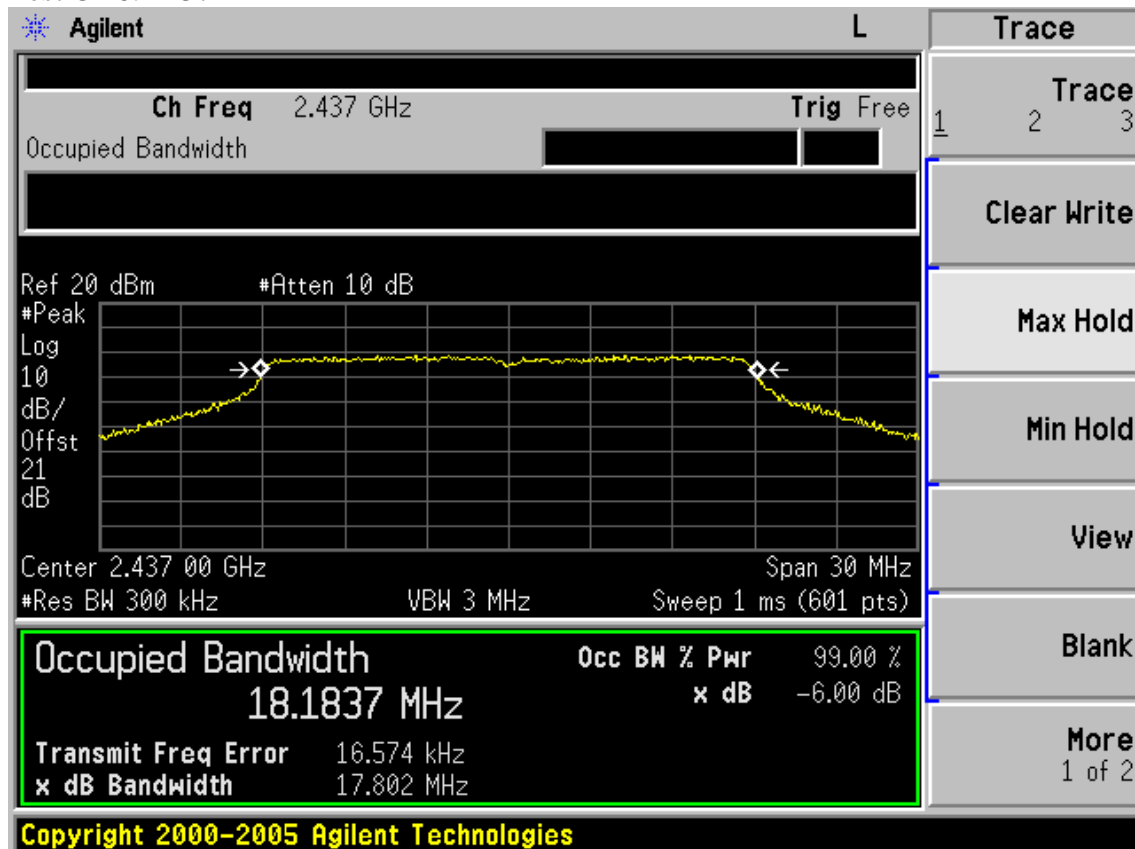


Test Mode: IEEE 802.11n HT20 TX

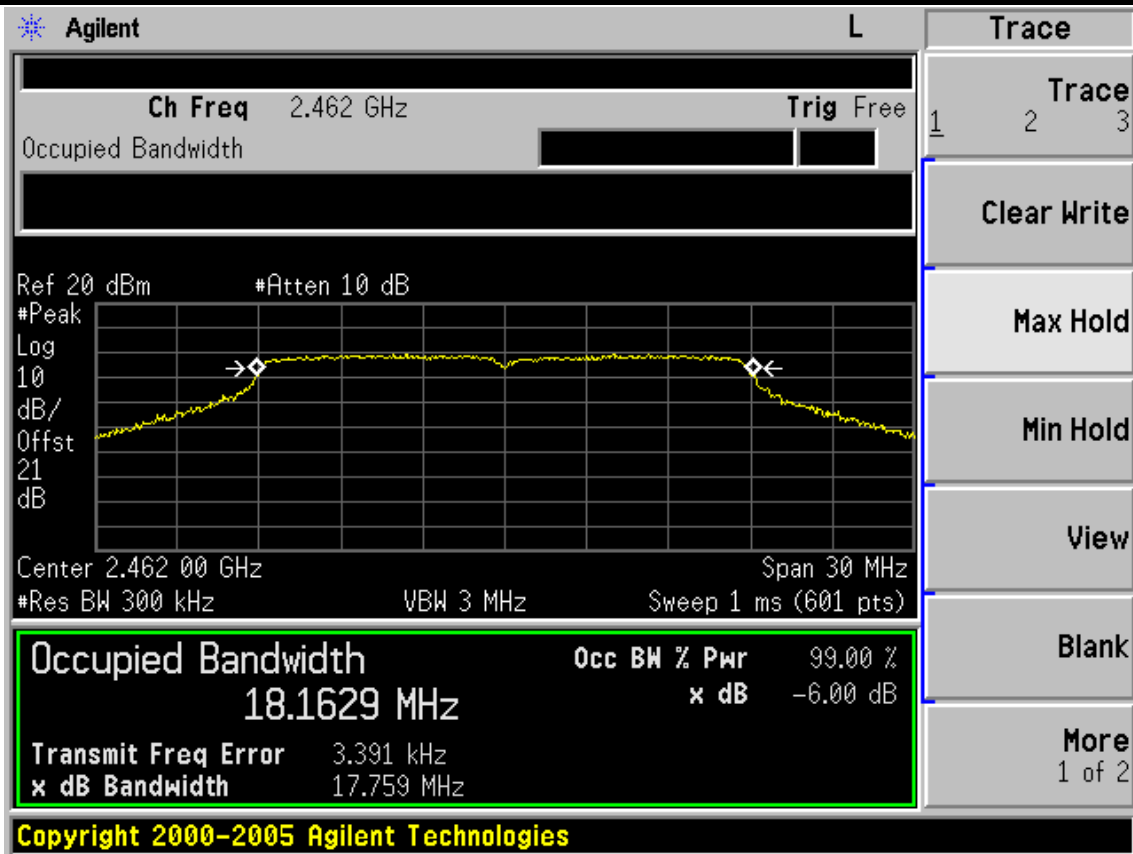
Test CH1: 2412MHz



Test CH6: 2437MHz

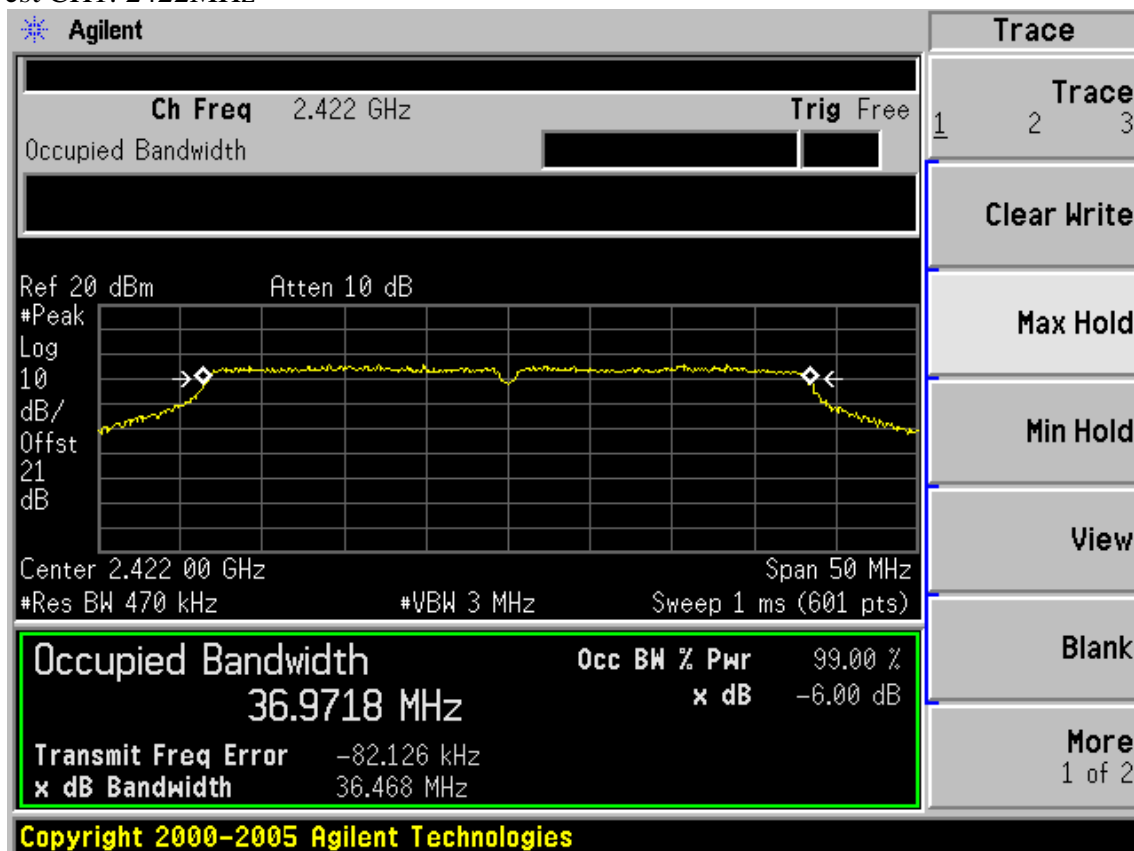


Test CH11: 2462MHz

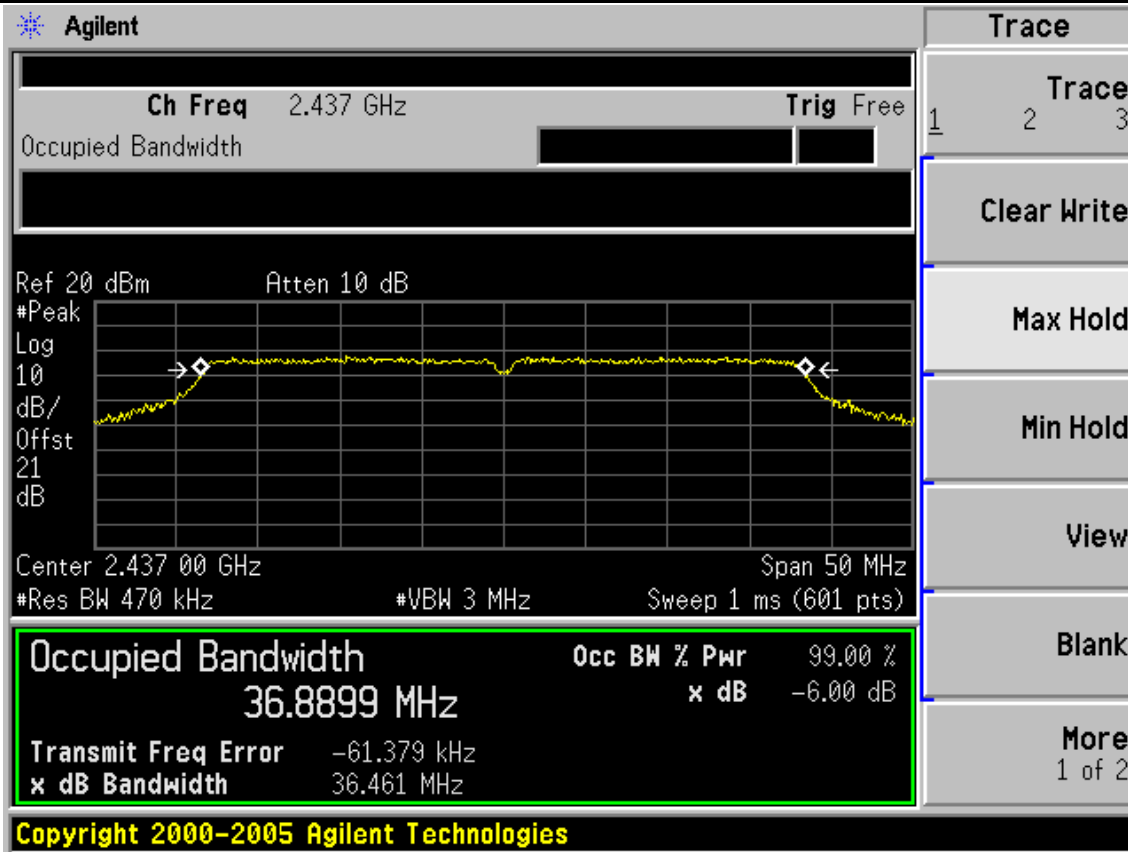


Test Mode: IEEE 802.11n HT40 TX

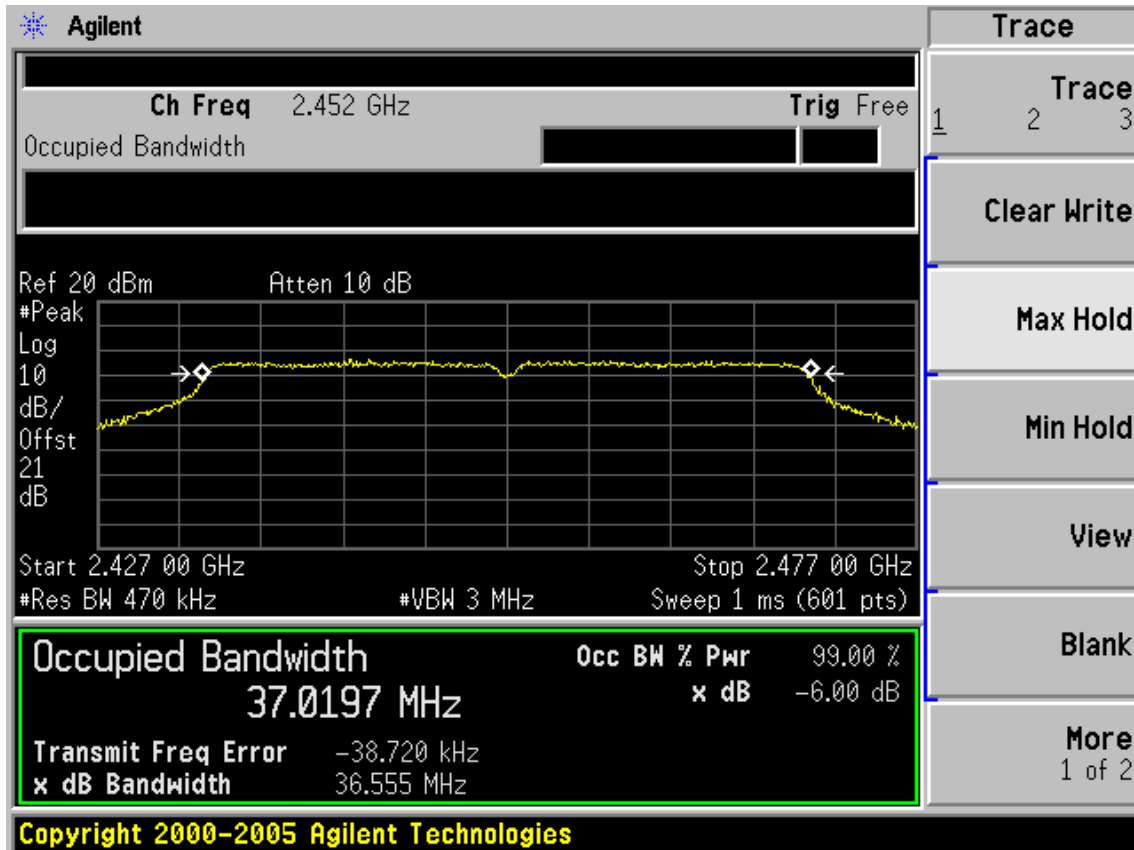
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



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.

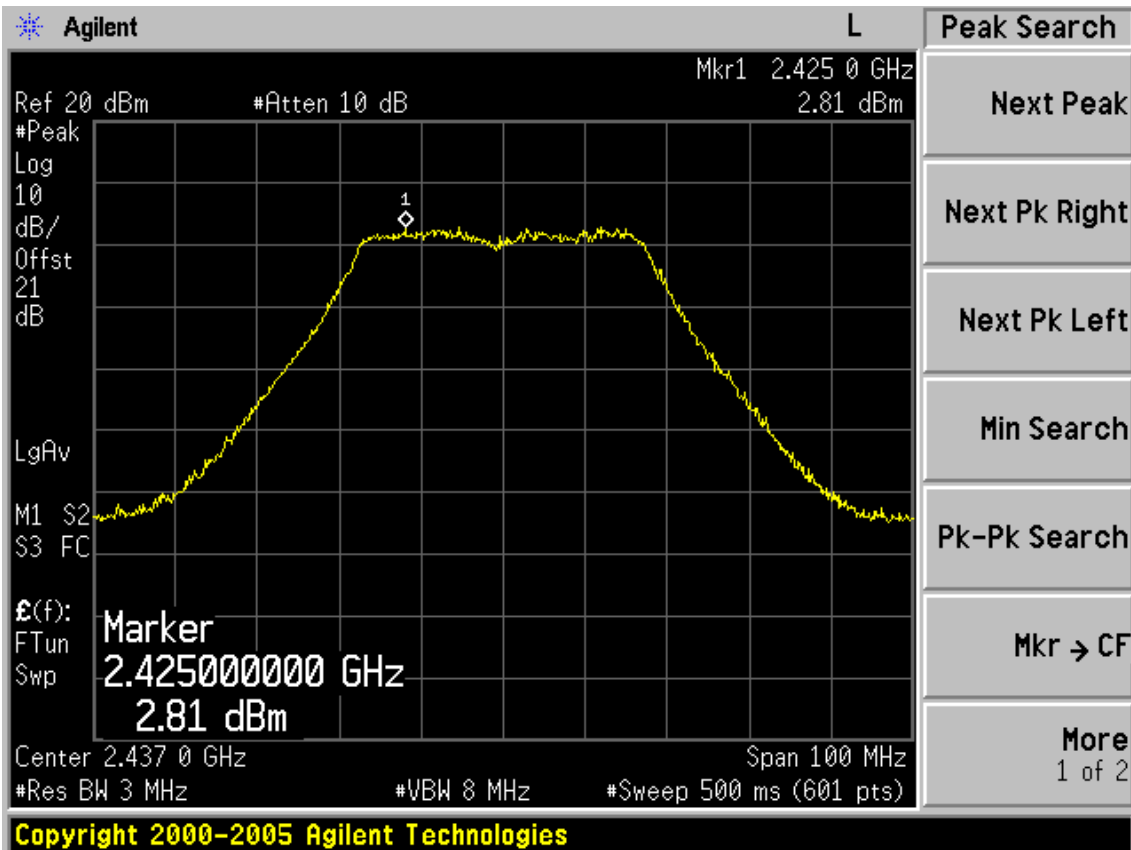
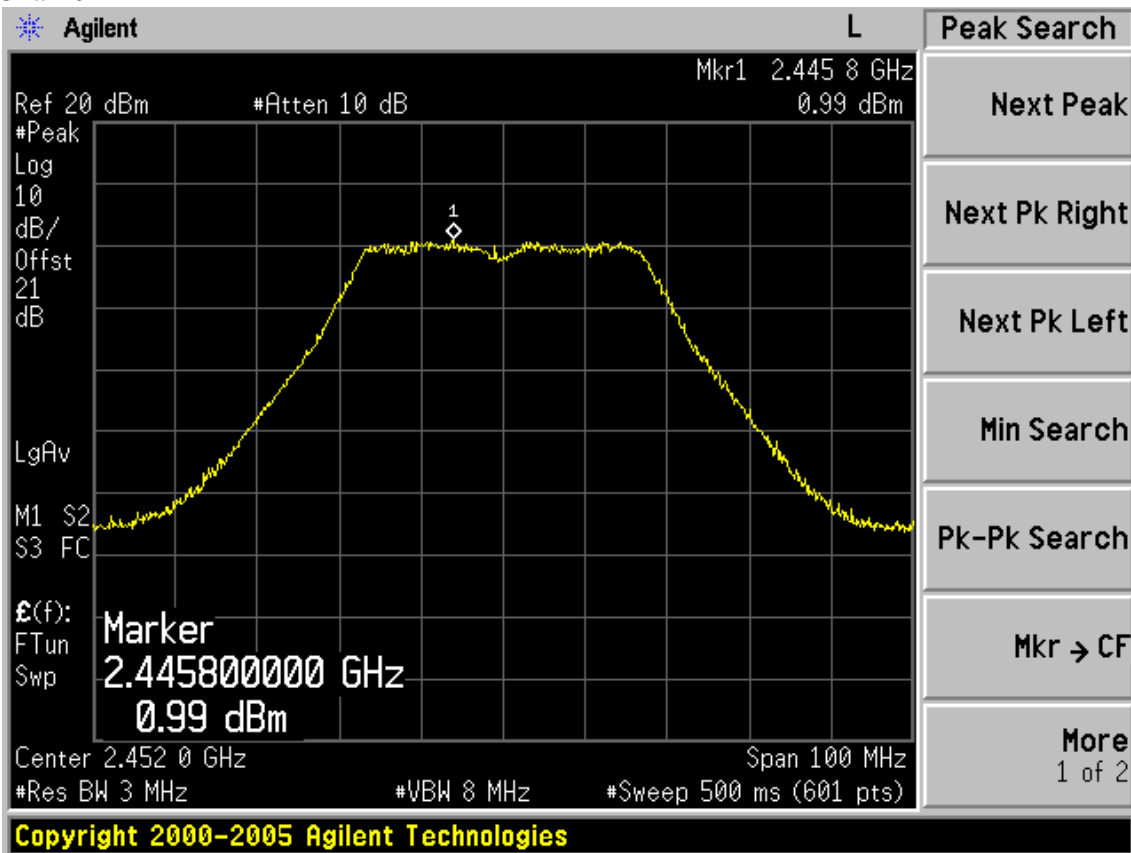
8.4. Test Results

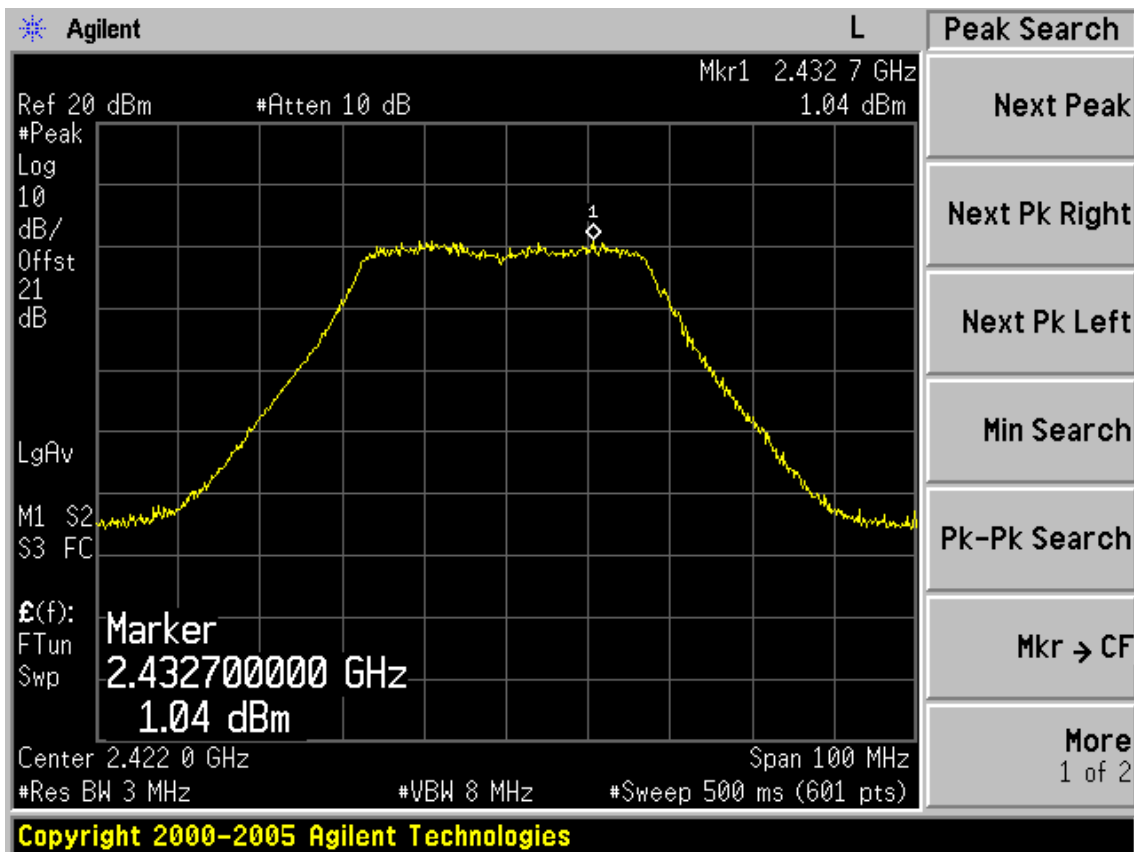
EUT: 300Mbps Wireless N PCI Adapter					
M/N: APLDT300N1					
Test date: 2013-03-22		Pressure: 101.3±1.0 kpa			Humidity:49.7±3.0%
Tested by: Leo-Li		Test site: RF Site			Temperature21.9±0.6℃
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH (MHz)	Peak output Power (dBm)			Limit (dBm)
		Chain0	Chain 1	Total	
11b	CH1	17.50	17.74	N/A	30
	CH6	17.07	17.30	N/A	30
	CH11	17.28	17.58	N/A	30
11g	CH1	16.96	17.71	N/A	30
	CH6	16.38	18.19	N/A	30
	CH11	15.65	16.84	N/A	30
11n HT20	CH1	15.09	15.28	18.20	30
	CH6	16.16	16.95	19.58	30
	CH11	15.51	15.98	18.76	30

Test Mode	CH	Result					Limit
		Measured power(dBm)/3MHz		PK Output power (dBm)			(dBm)
		Chain0	Chain1	Chain0	Chain1	Total	
11n HT40	CH3	1.04	1.06	13.29	13.33	16.32	30
	CH6	2.81	2.95	15.06	15.22	18.15	30
	CH9	0.99	1.20	13.24	13.47	16.37	30
Chain 0 26dB Bandwidth for 11n HT40: 50.352MHz							
Chain 1 26dB Bandwidth for 11n HT40: 50.587MHz							
Chain 0 BW correction factor = 10log[(50.352MHz)/(3MHz)] = 12.25dB							
Chain 1 BW correction factor = 10log[(50.587MHz)/(3MHz)] = 12.27dB							
Conclusion: PASS							

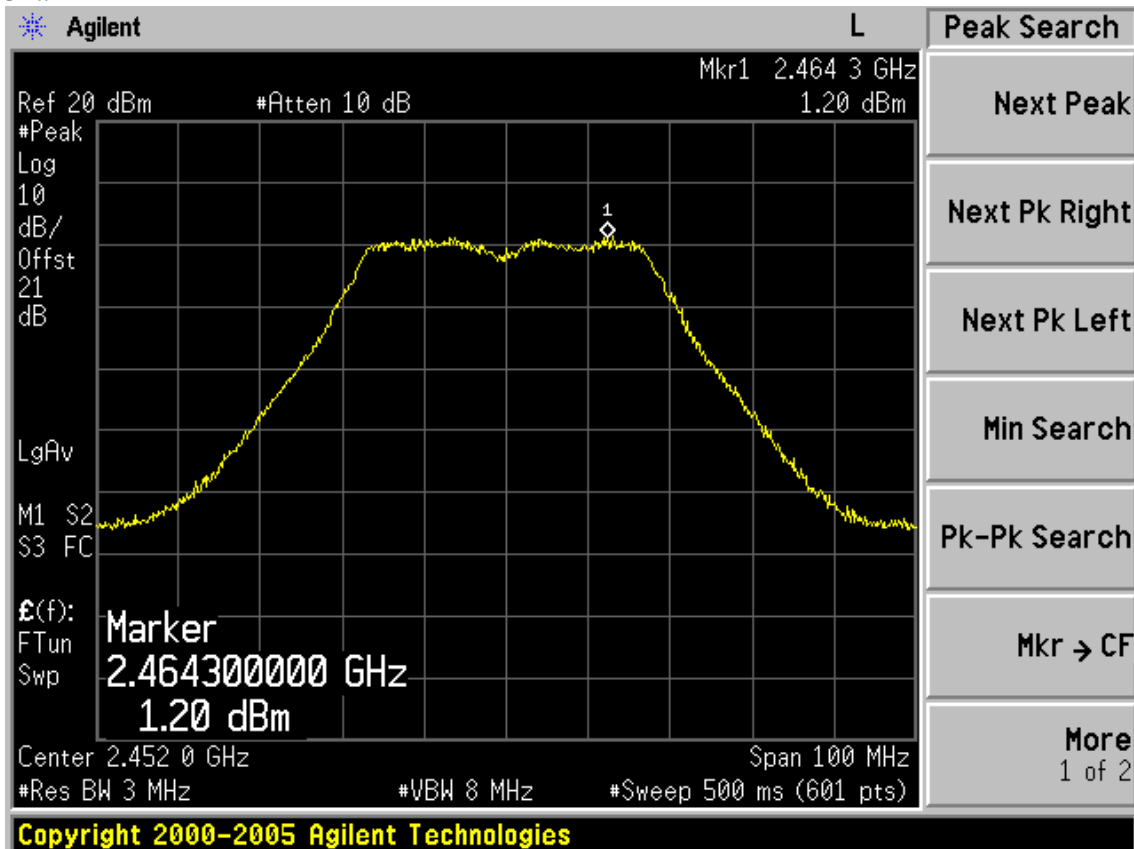
Test Mode: IEEE 802.11n HT40

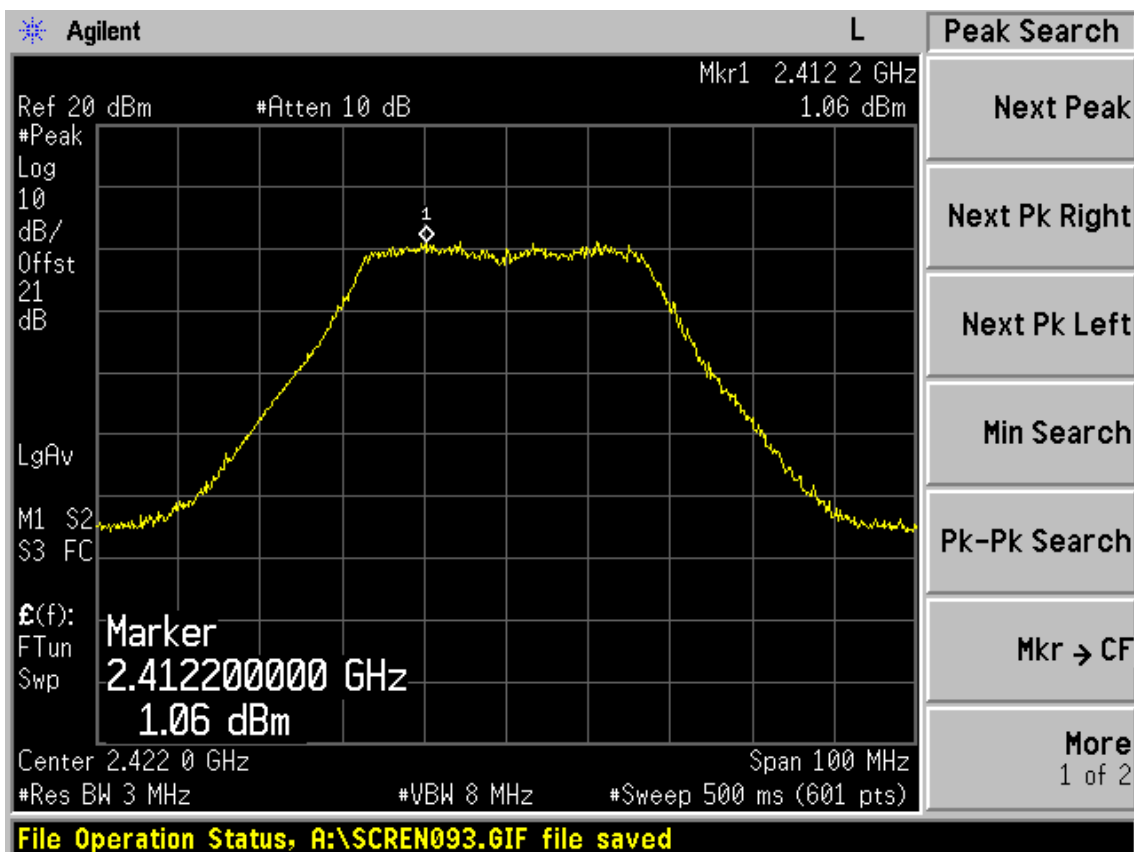
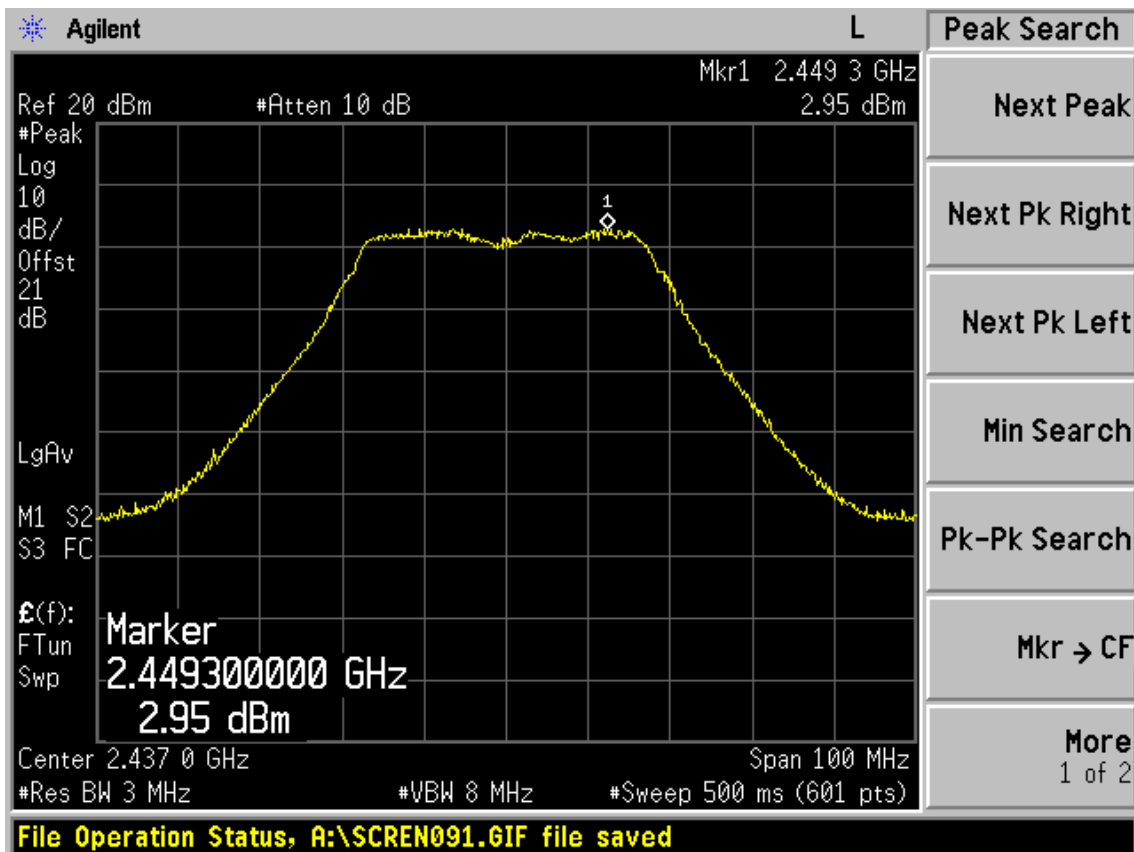
Chain0





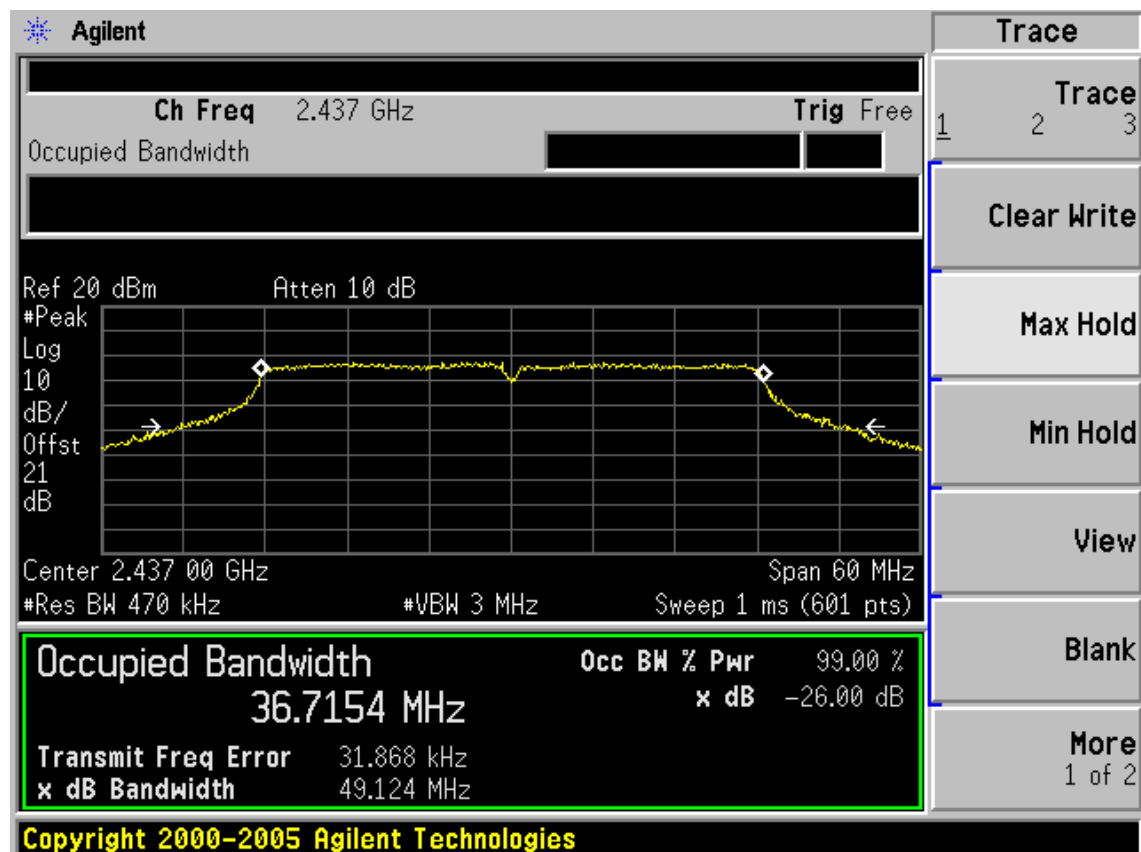
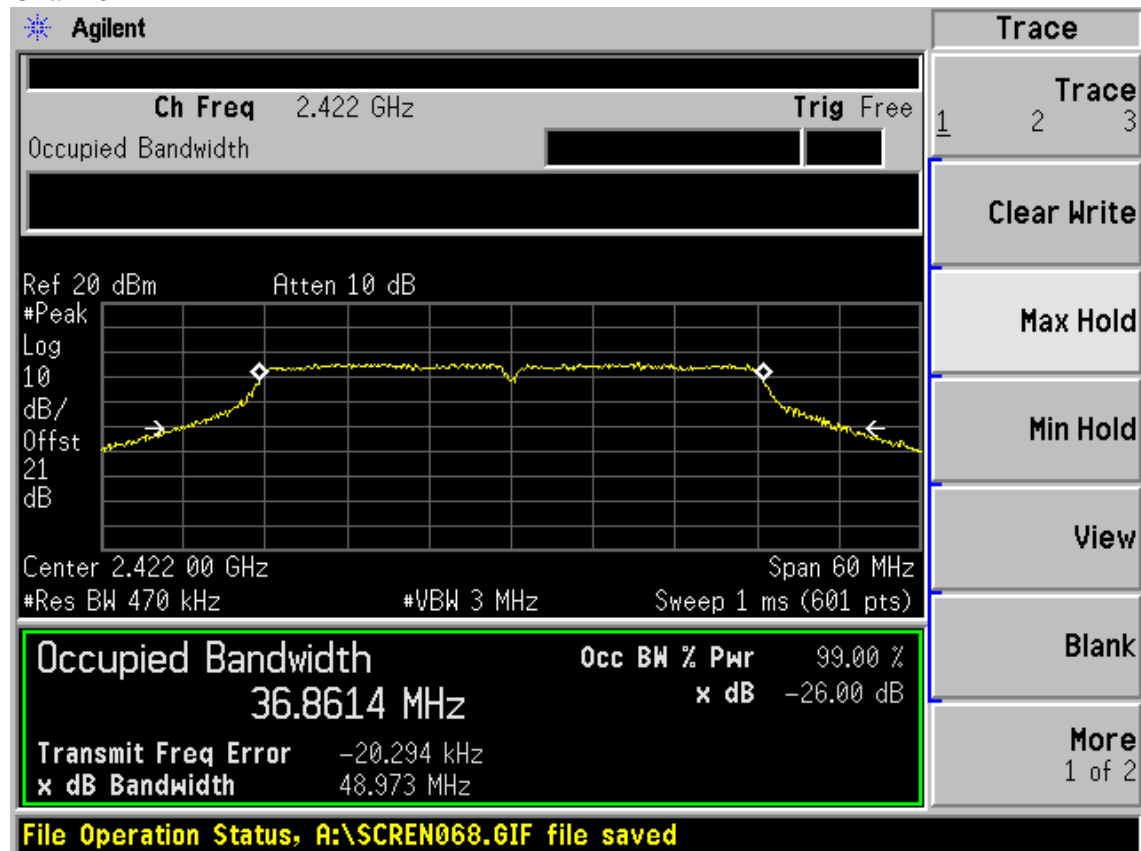
Chain1

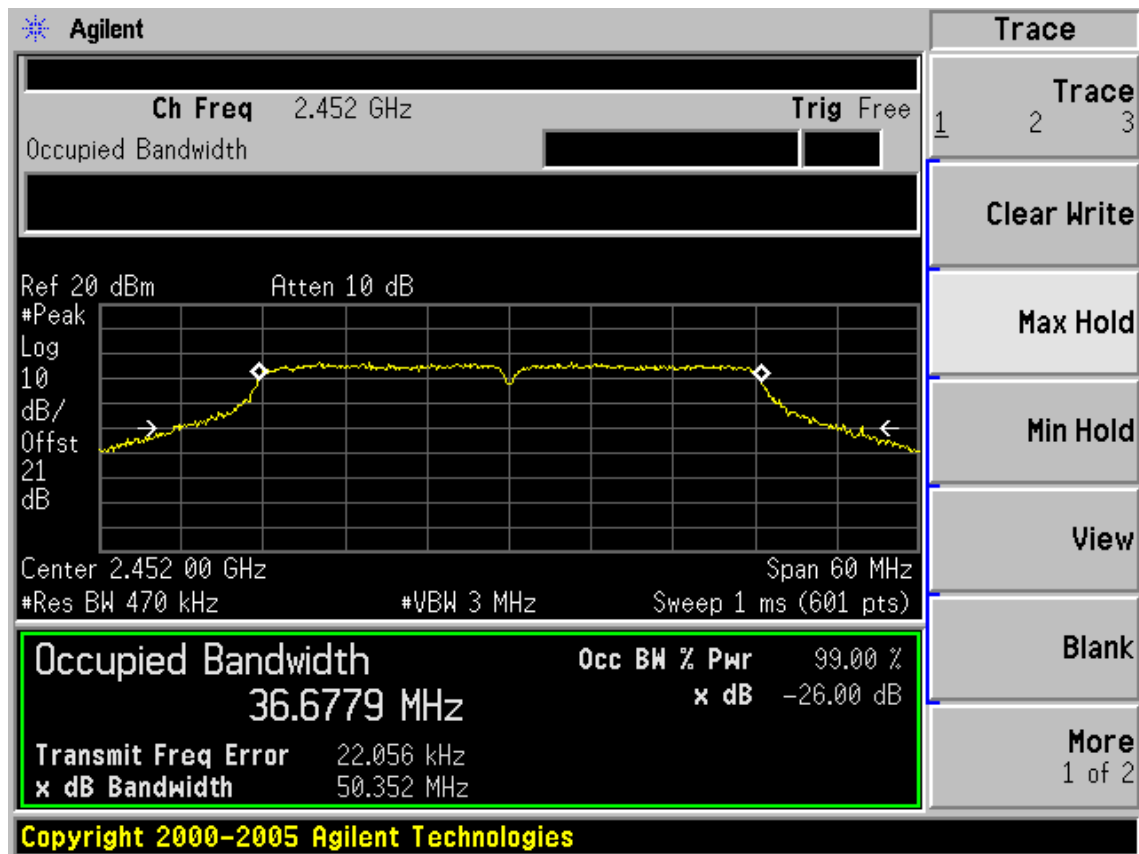




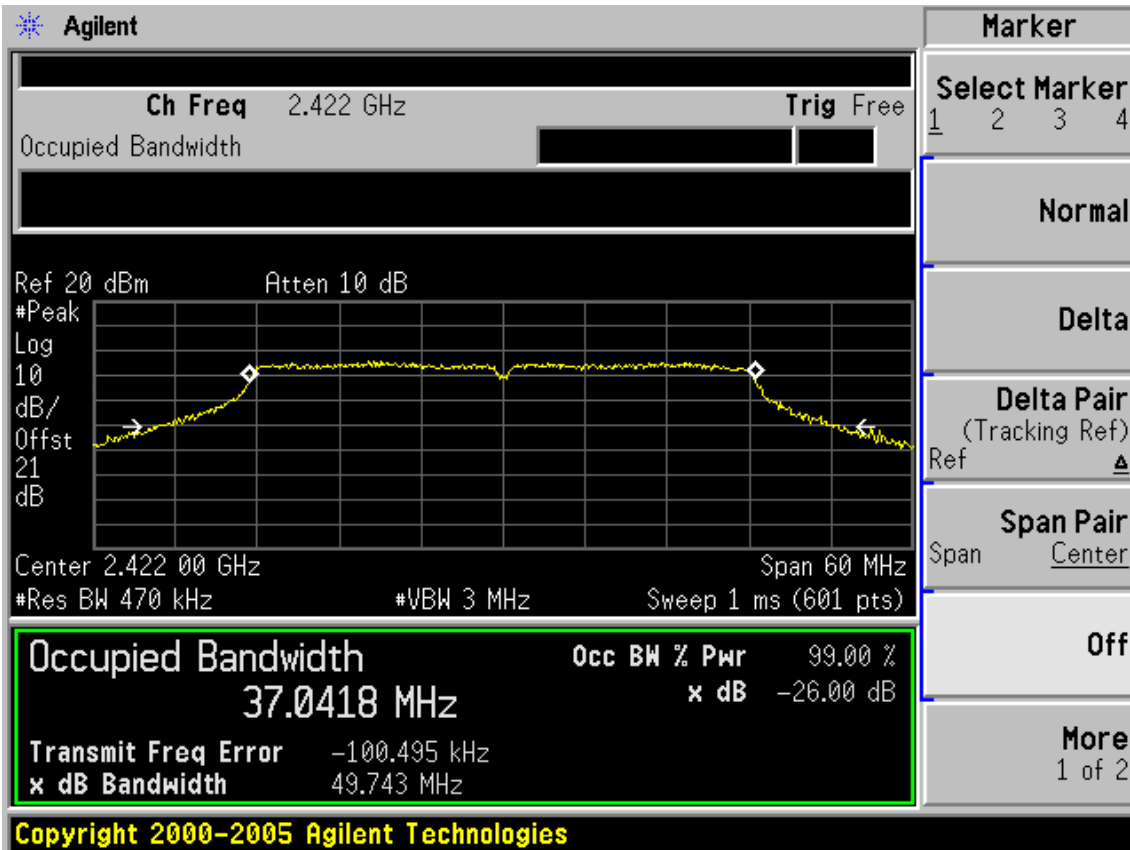
26dB Bandwidth

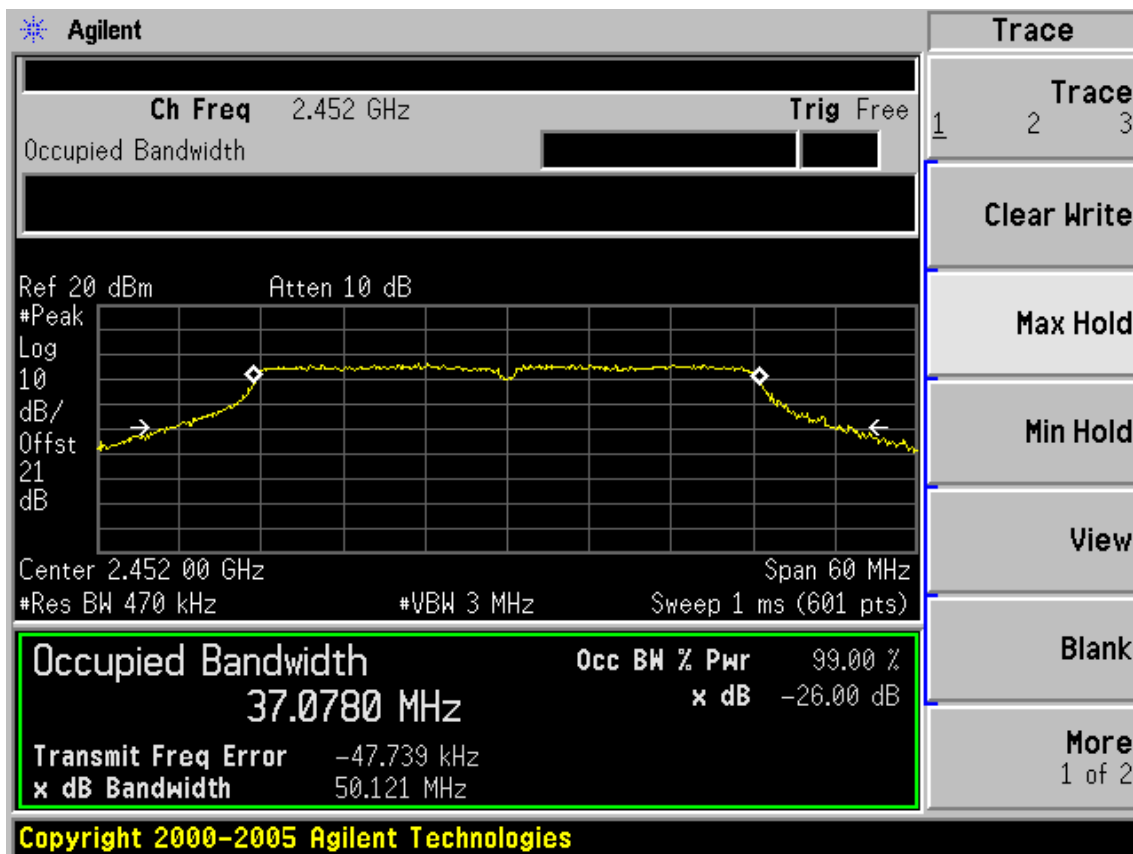
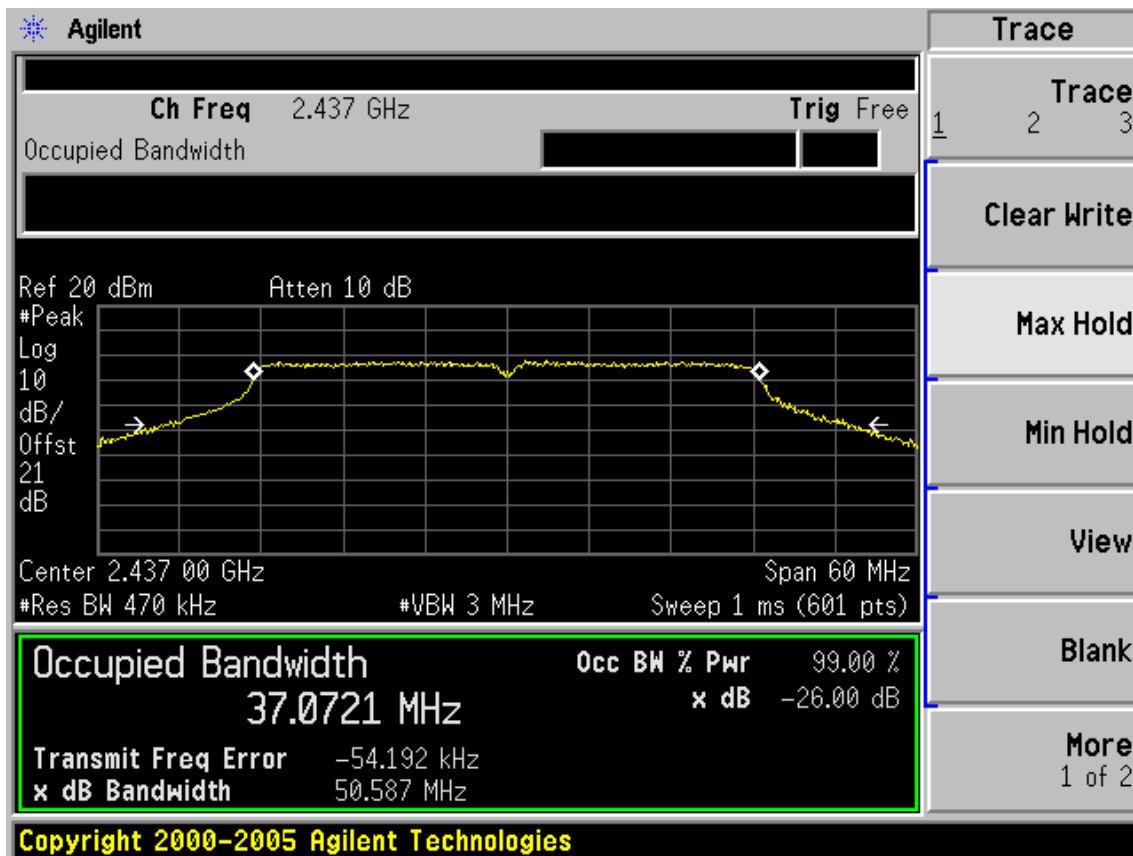
Chain 0





Chain 1





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	1 Year
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

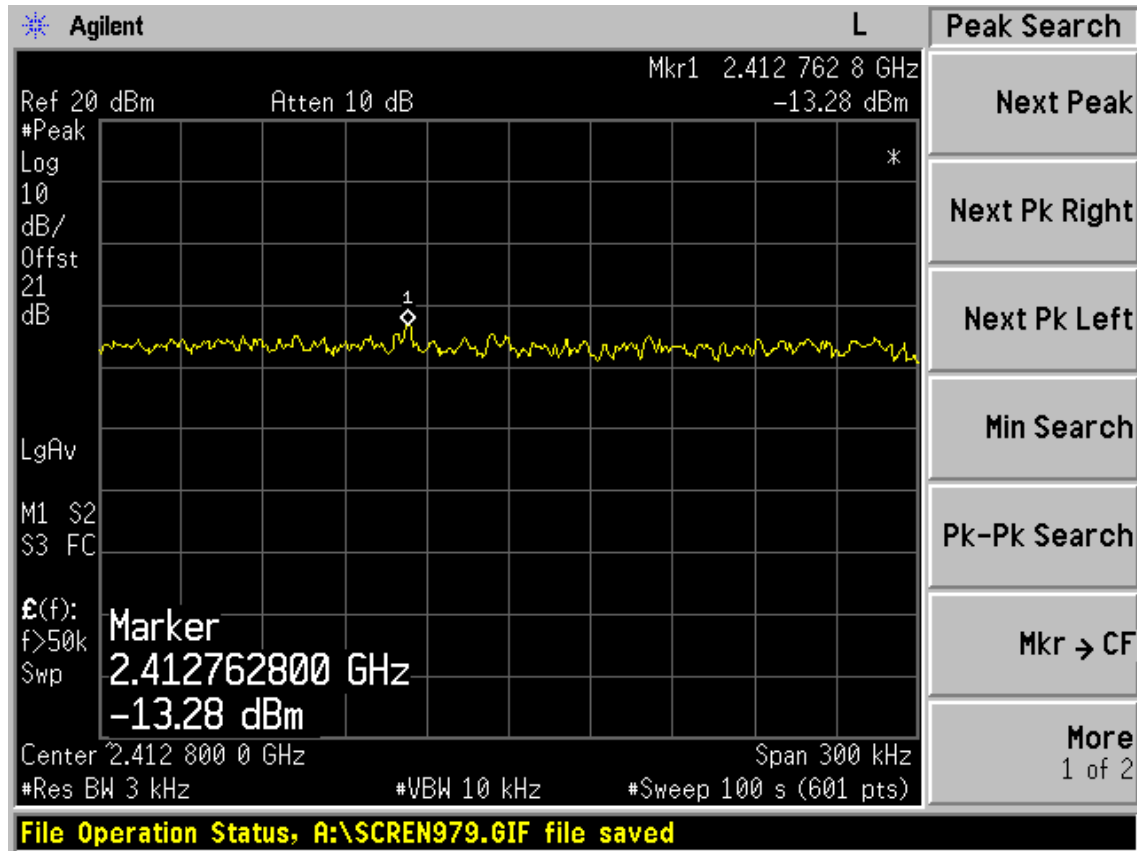
EUT: 300Mbps Wireless N PCI Adapter		
M/N: APLDT300N1		
Test date: 2013-03-22	Pressure: 101.3±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.9±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		Chain0	Chain1	Total	
11b	CH1	-13.28	-13.00	N/A	8
	CH6	-13.85	-12.61	N/A	8
	CH11	-13.29	-13.35	N/A	8
11g	CH1	-16.86	-15.37	N/A	8
	CH6	-16.99	-14.86	N/A	8
	CH11	-17.05	-16.23	N/A	8
11n HT20	CH1	-18.07	-18.39	-10.53	8
	CH6	-16.08	-15.79	-7.15	8
	CH11	-18.00	-17.46	-8.13	8
11n HT40	CH3	-44.99	-45.35	-16.59	8
	CH6	-22.25	-22.26	-11.19	8
	CH9	-42.79	-42.58	-15.76	8
Conclusion : PASS					

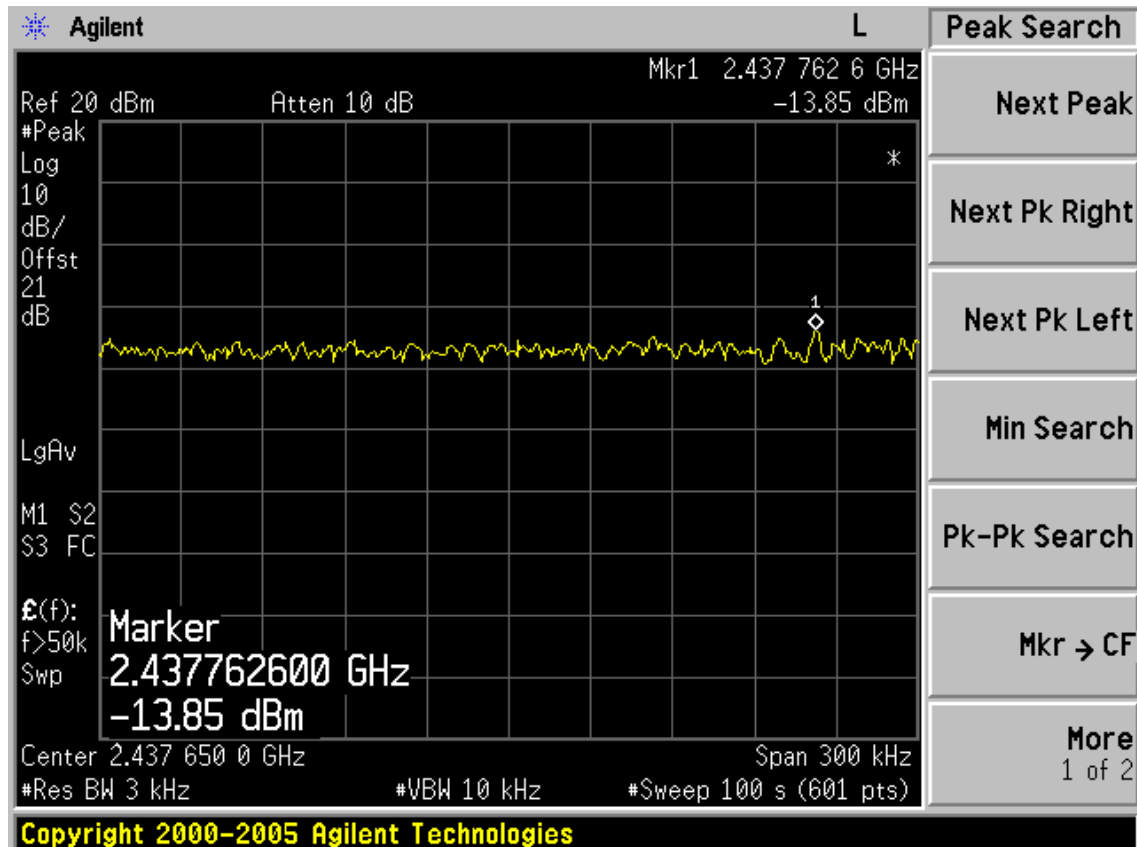
Chain 0:

Test Mode: IEEE 802.11b TX

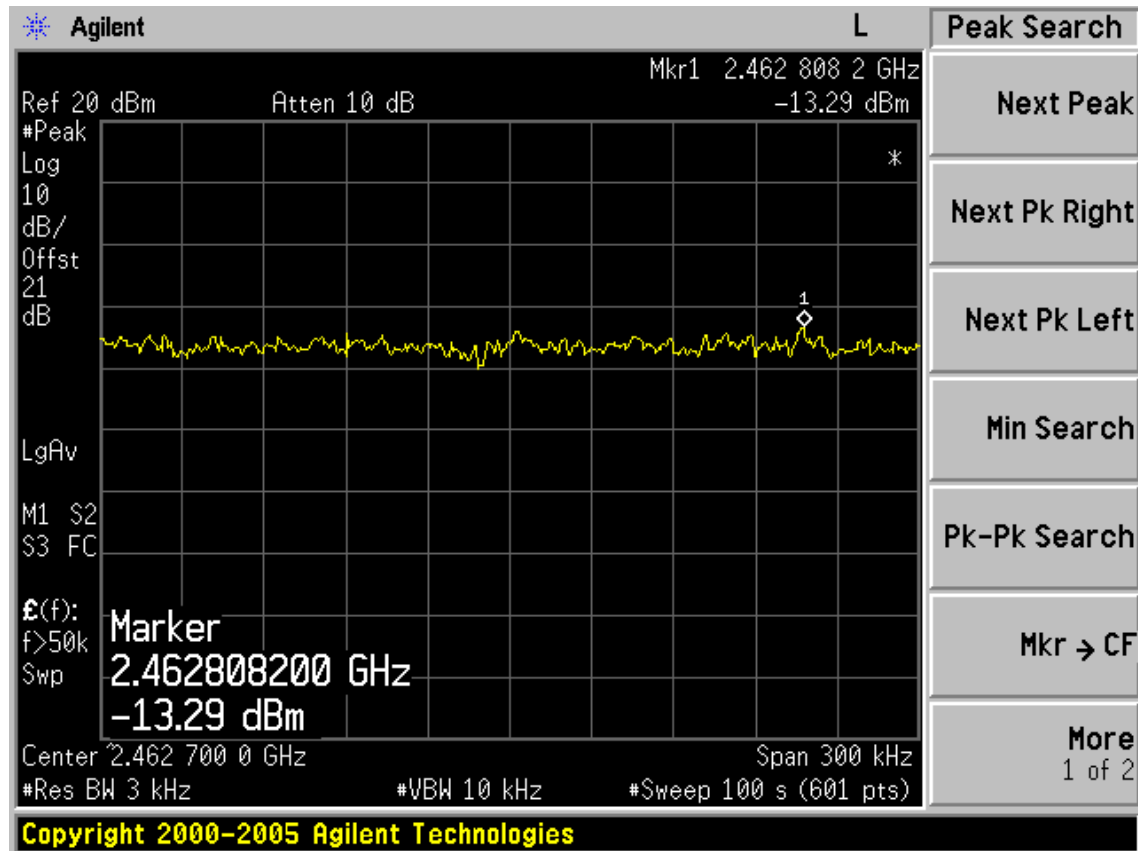
Test CH1: 2412MHz



Test CH6: 2437MHz

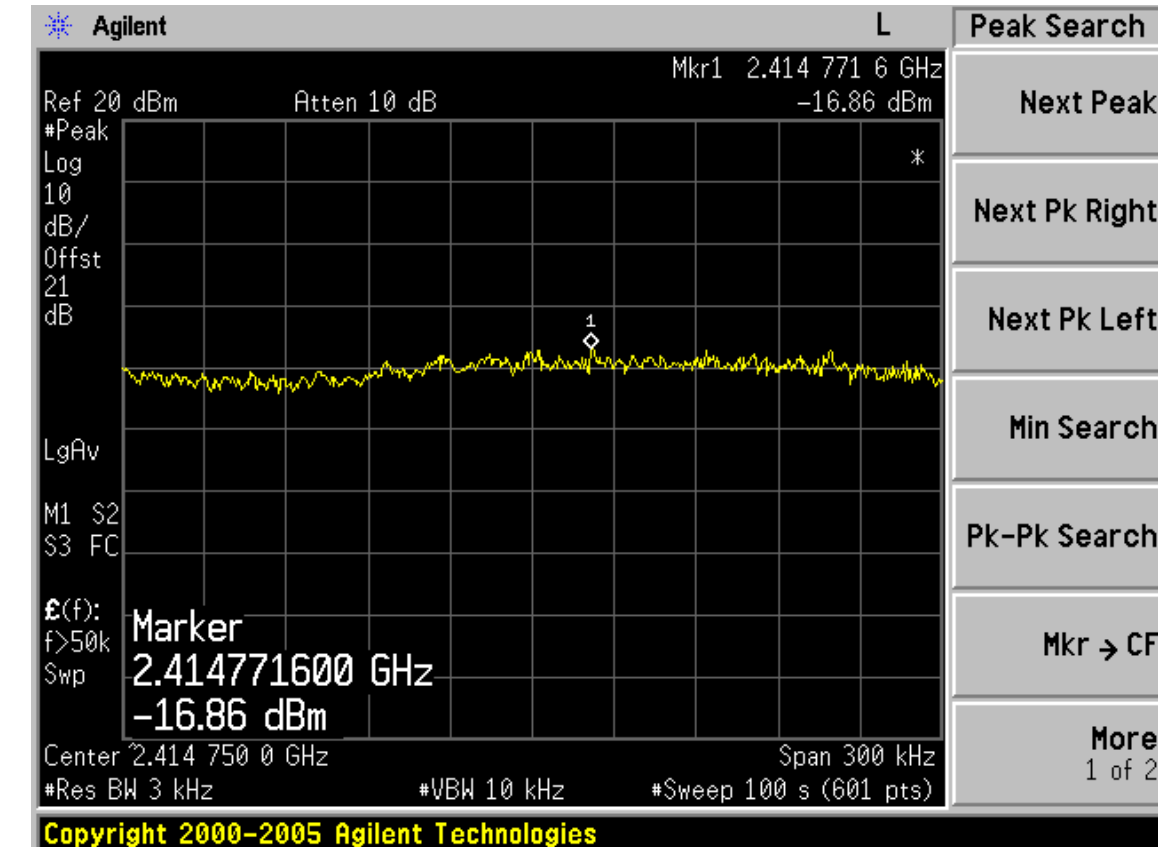


Test CH11: 2462MHz

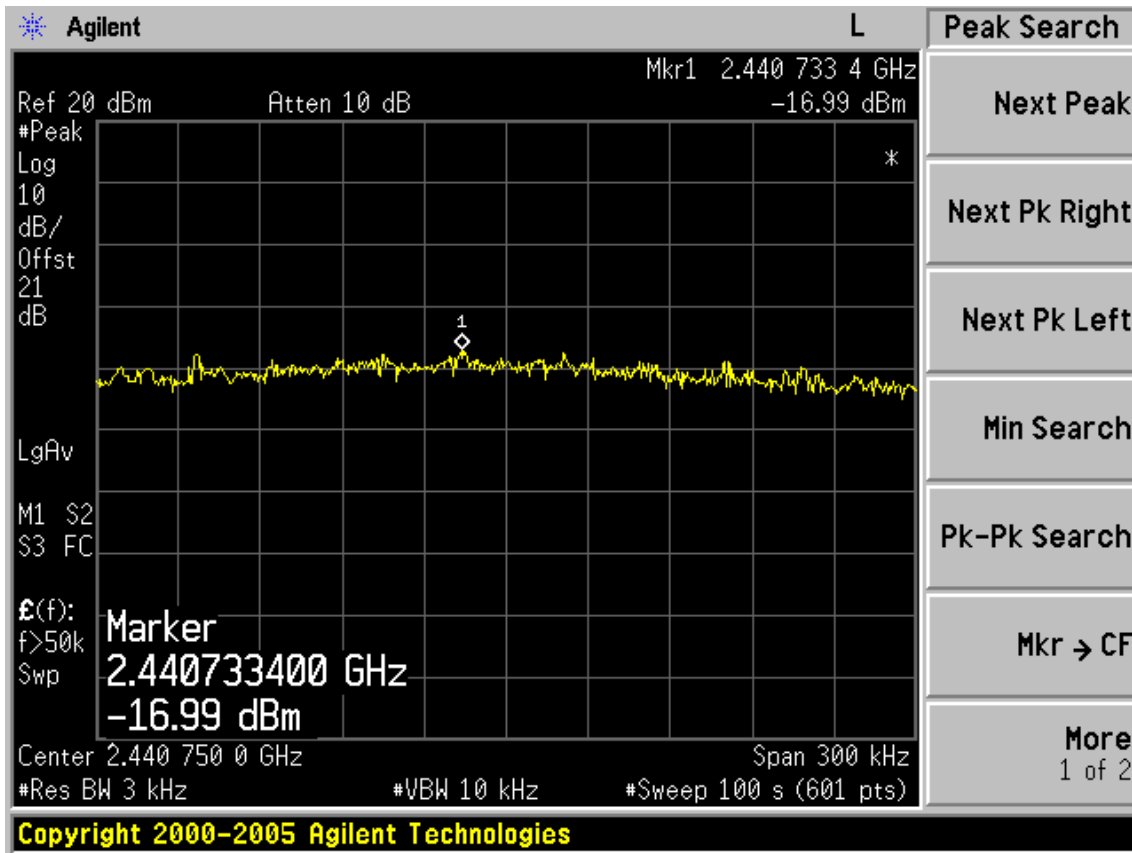


Test Mode: IEEE 802.11g TX

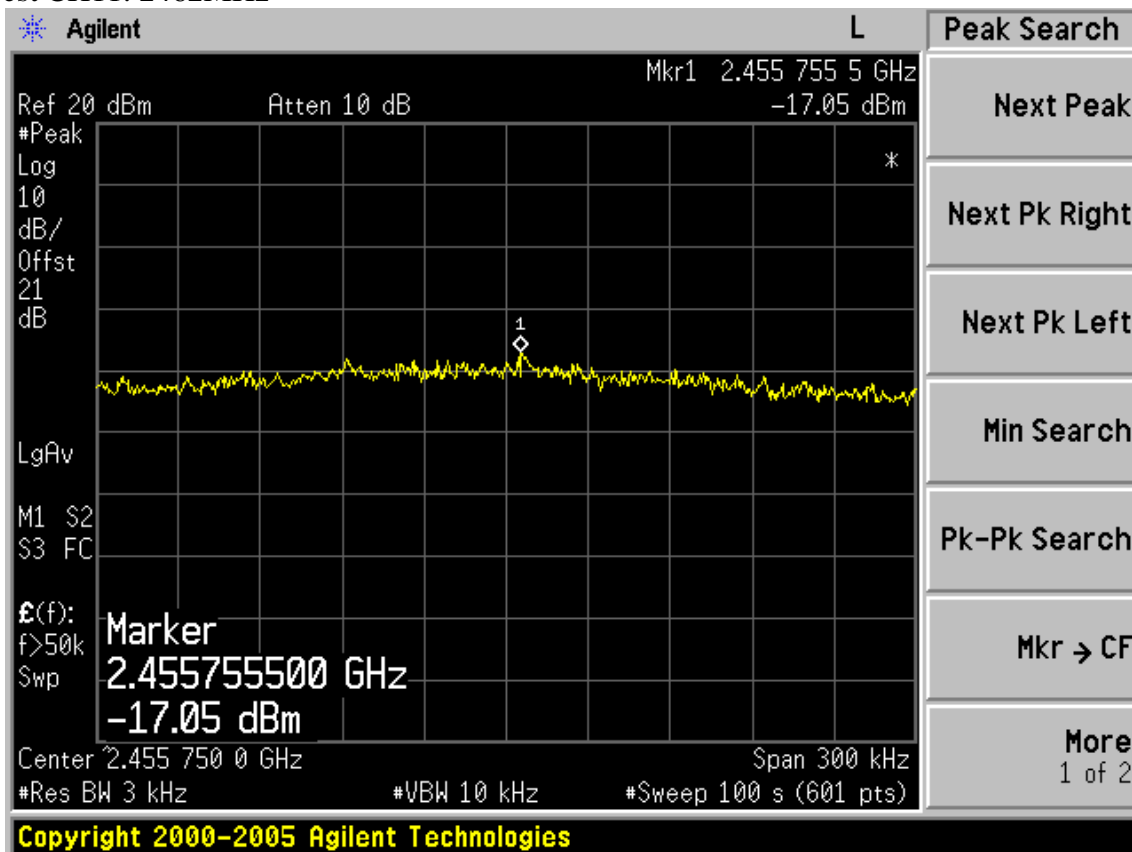
Test CH1: 2412MHz



Test CH6: 2437MHz

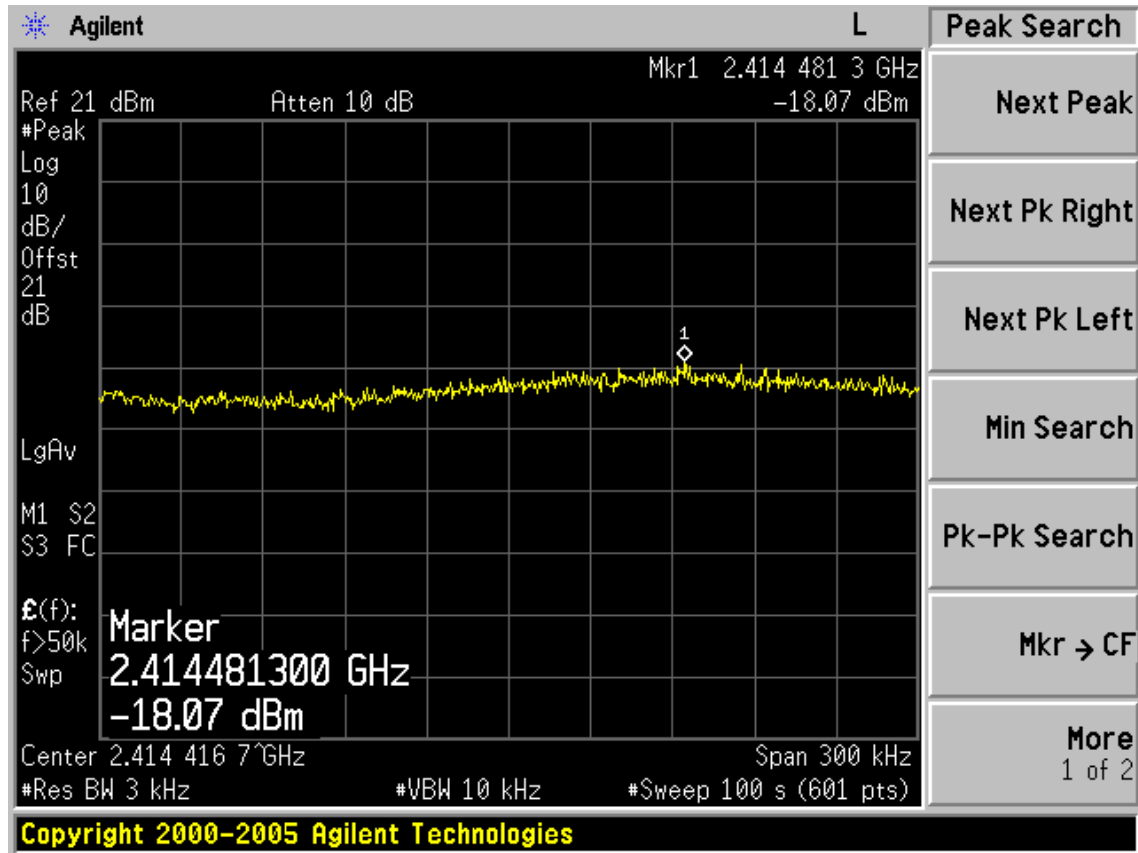


Test CH11: 2462MHz

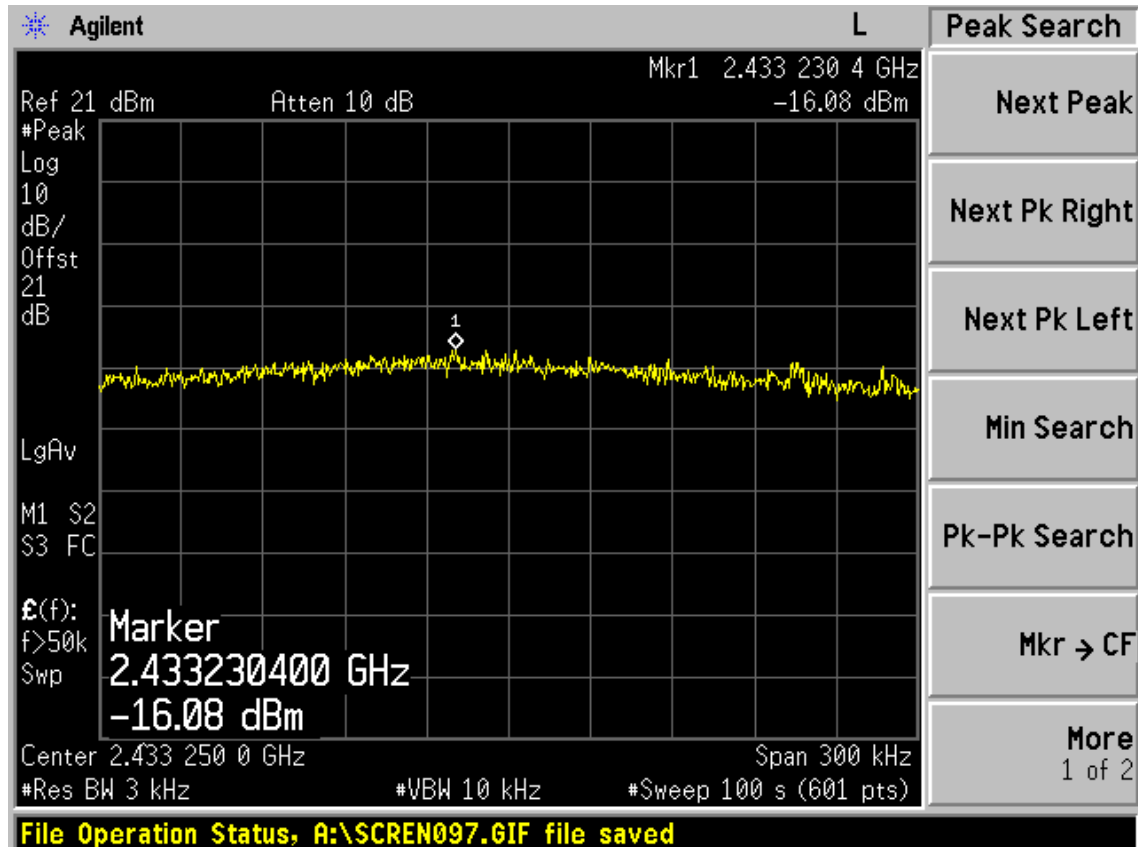


Test Mode: IEEE 802.11n HT20 TX

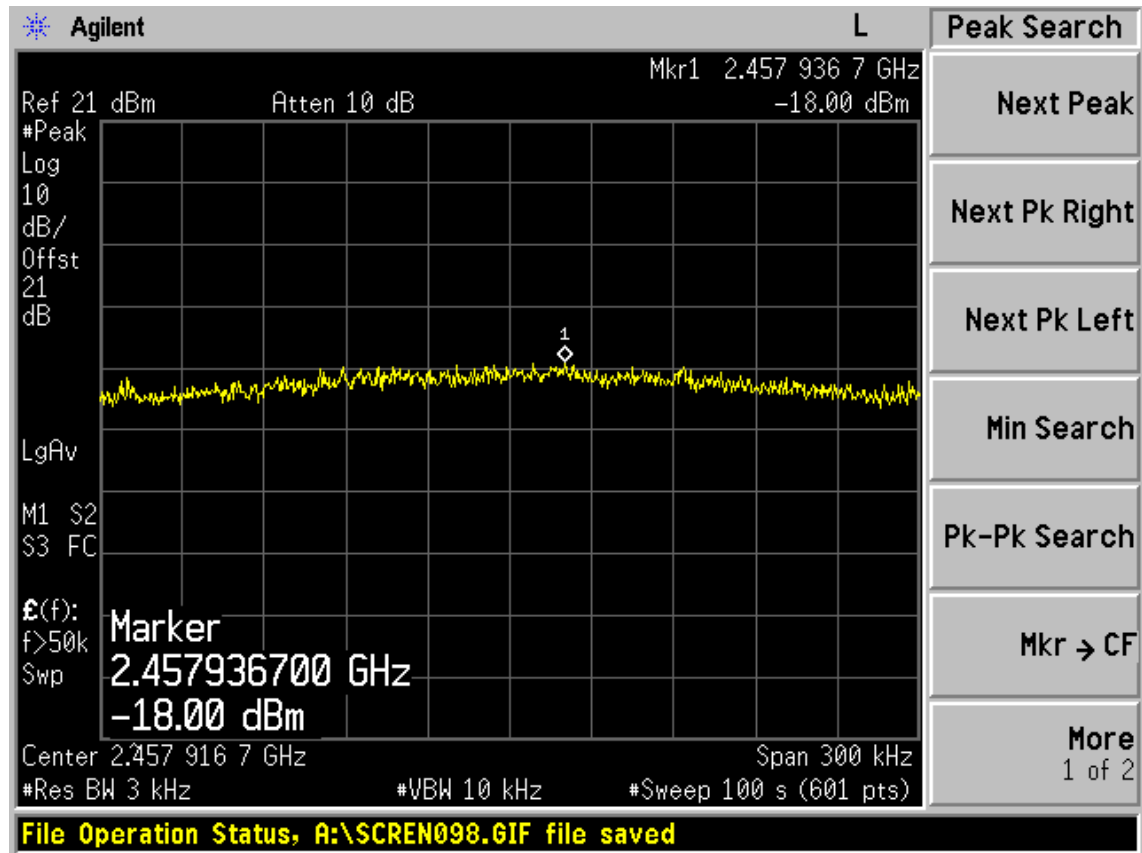
Test CH1: 2412MHz



Test CH6: 2437MHz

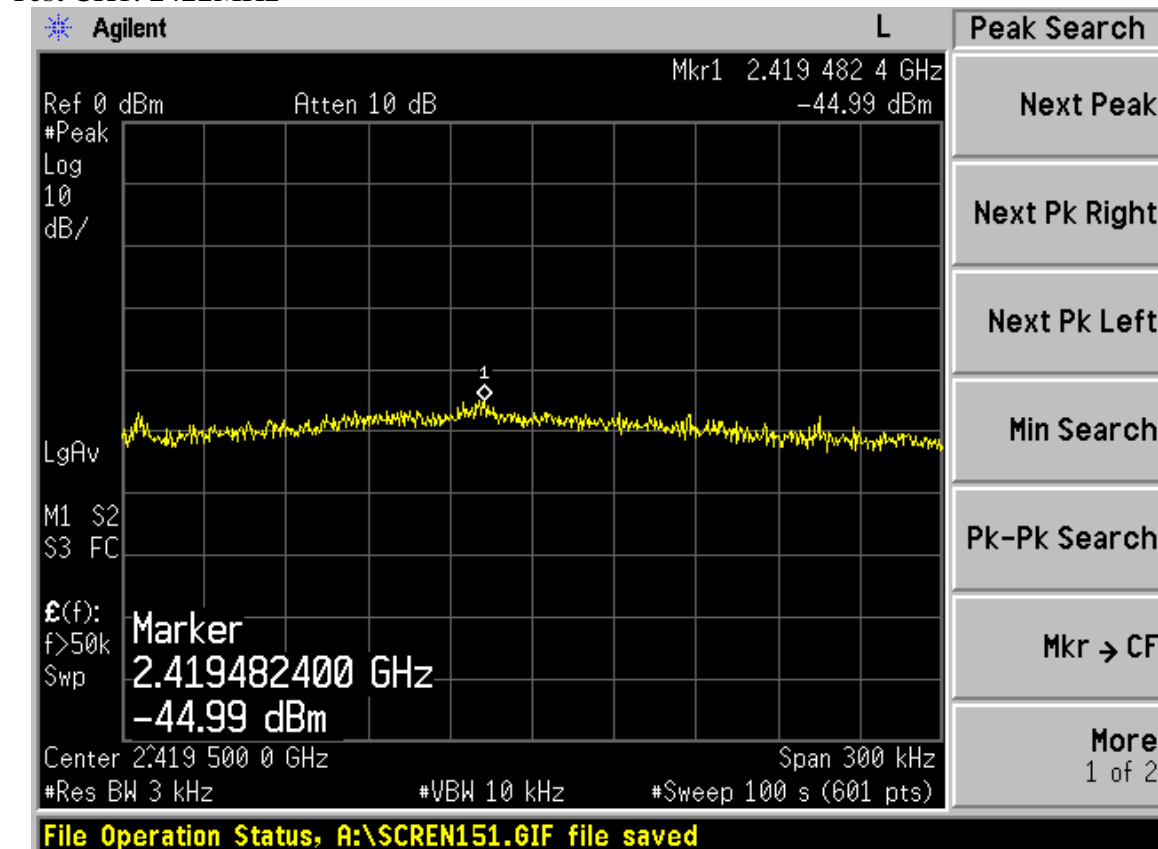


Test CH11: 2462MHz

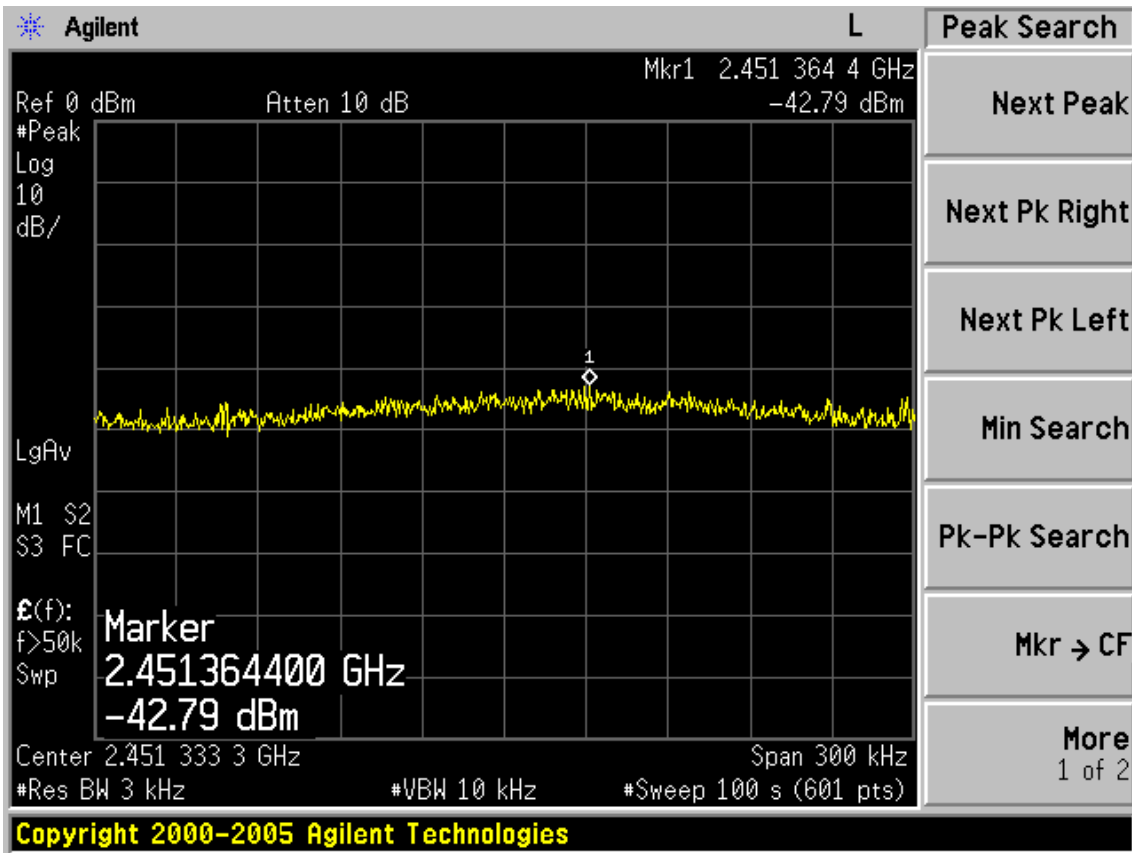


Test Mode: IEEE 802.11n HT40 TX

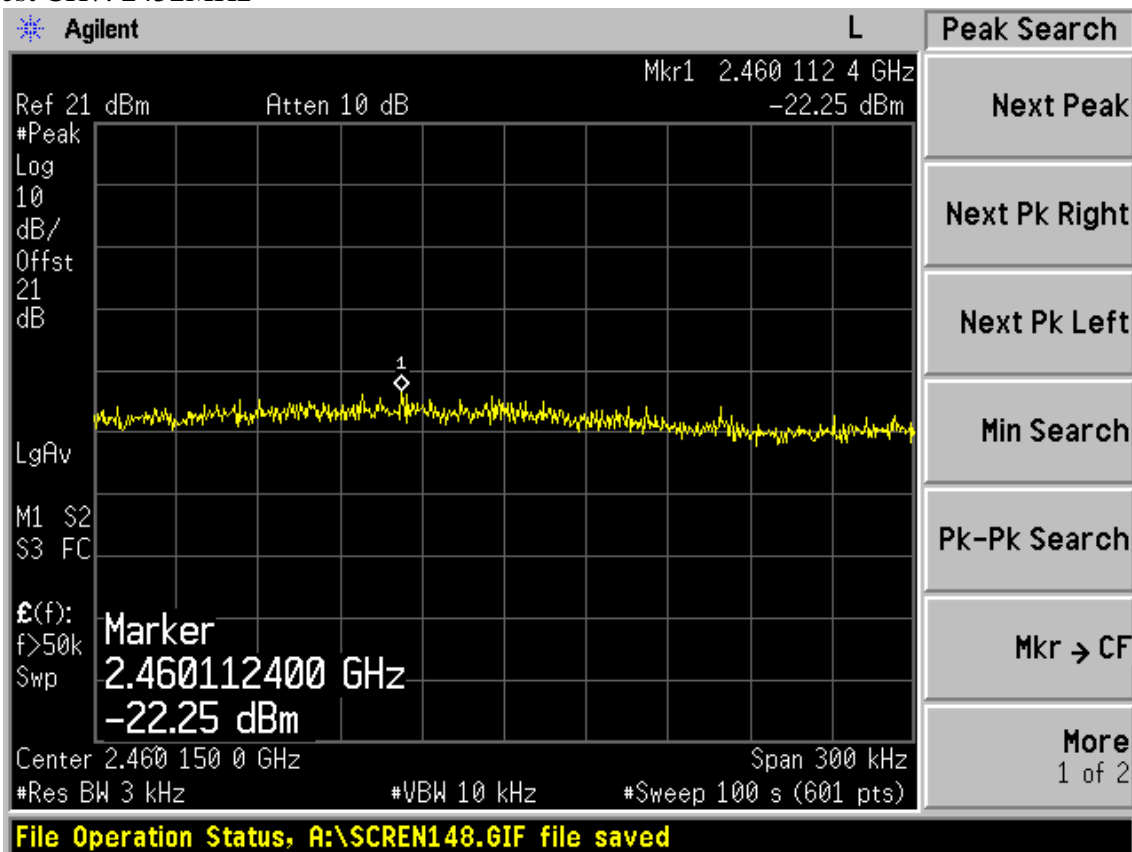
Test CH1: 2422MHz



Test CH4: 2437MHz



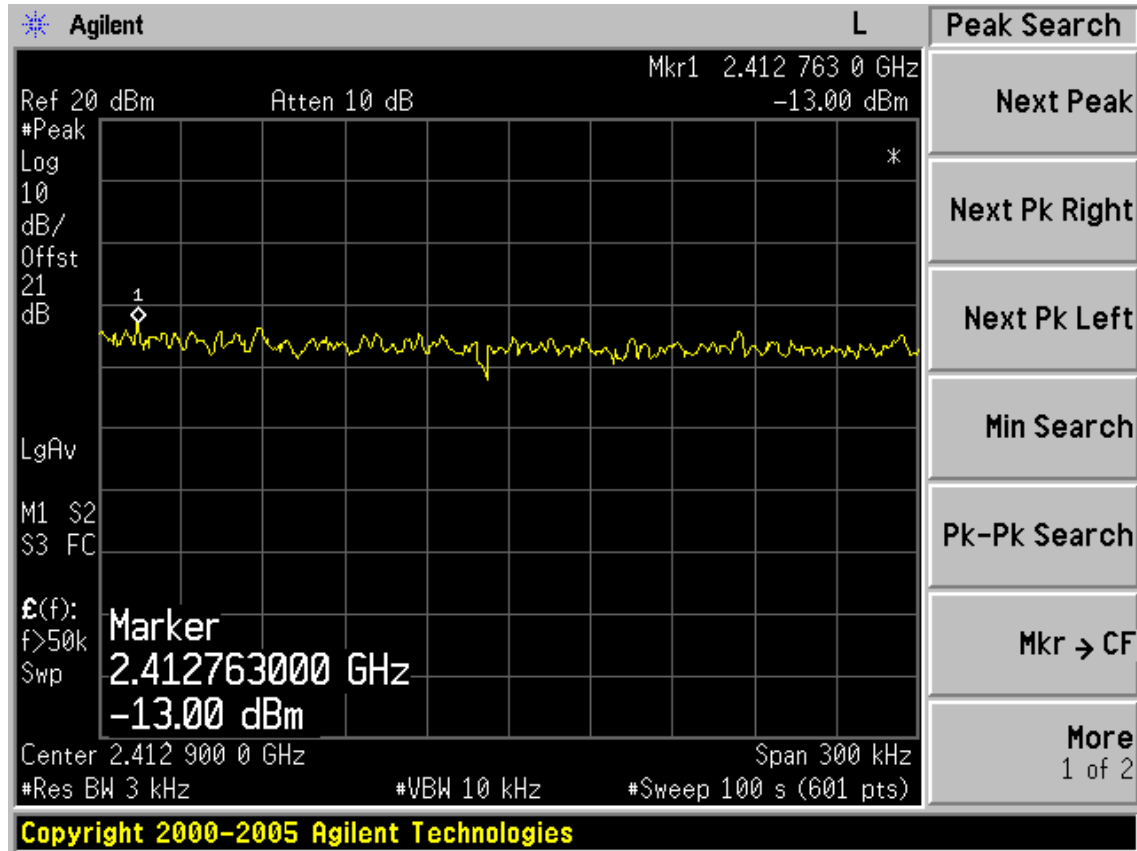
Test CH7: 2452MHz



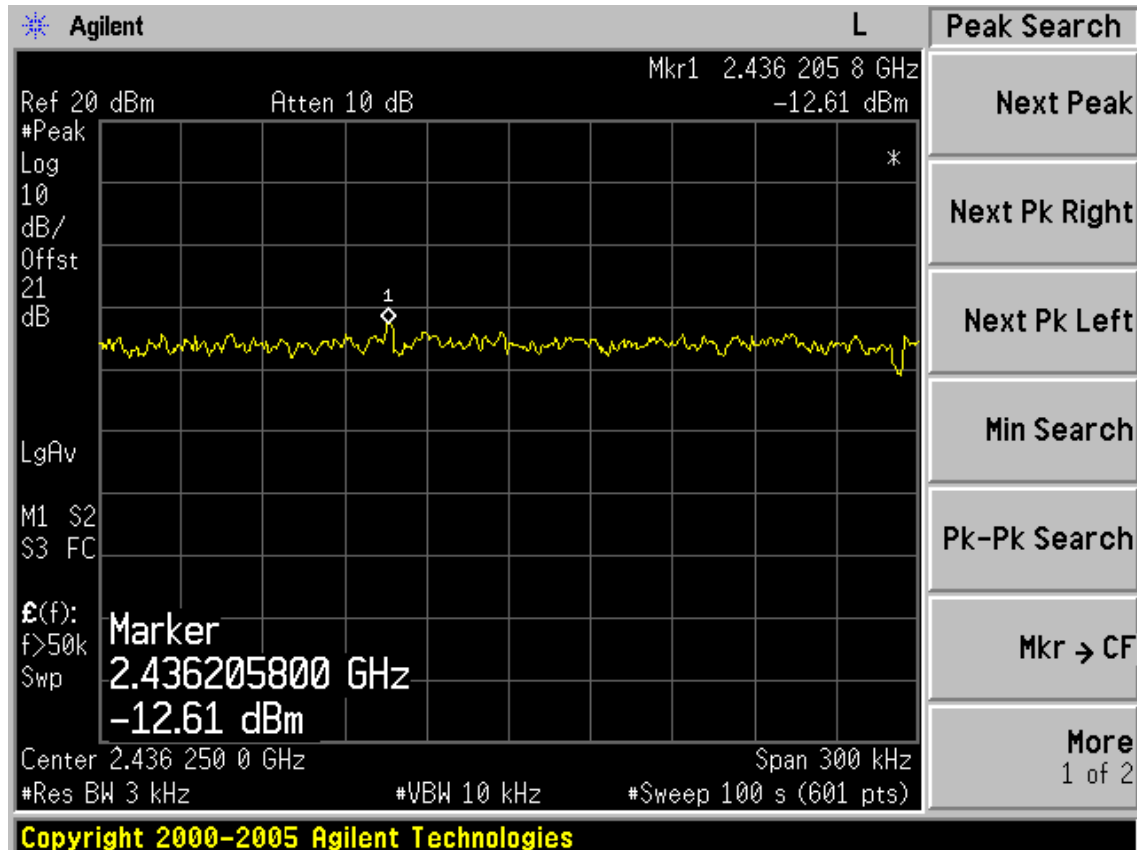
Chain 1:

Test Mode: IEEE 802.11b TX

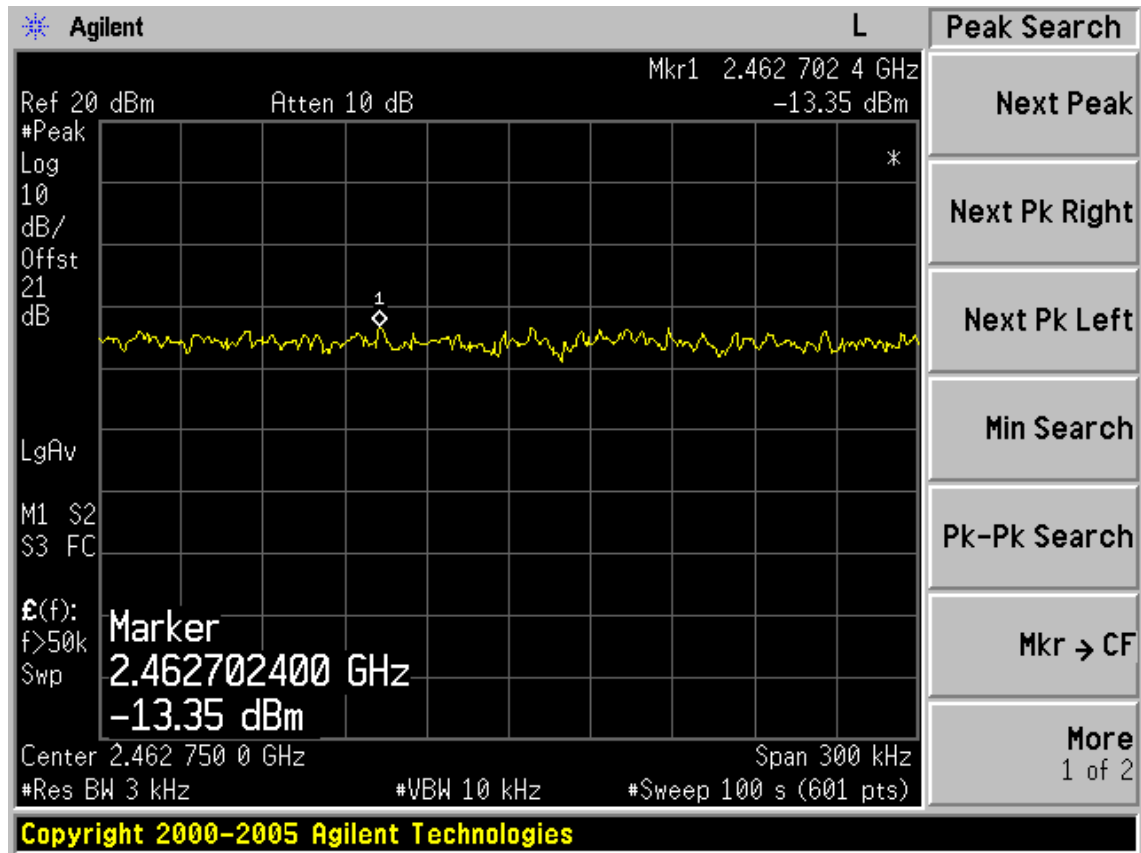
Test CH1: 2412MHz



Test CH6: 2437MHz

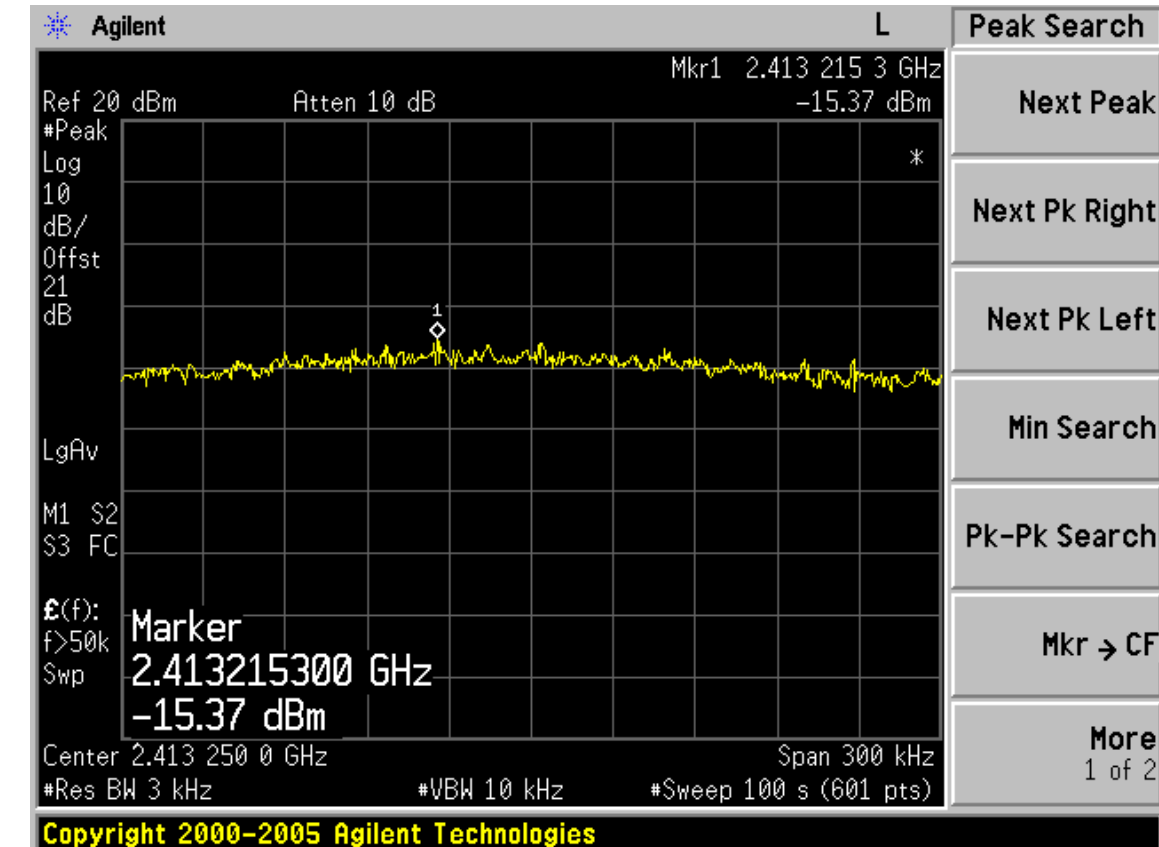


Test CH11: 2462MHz

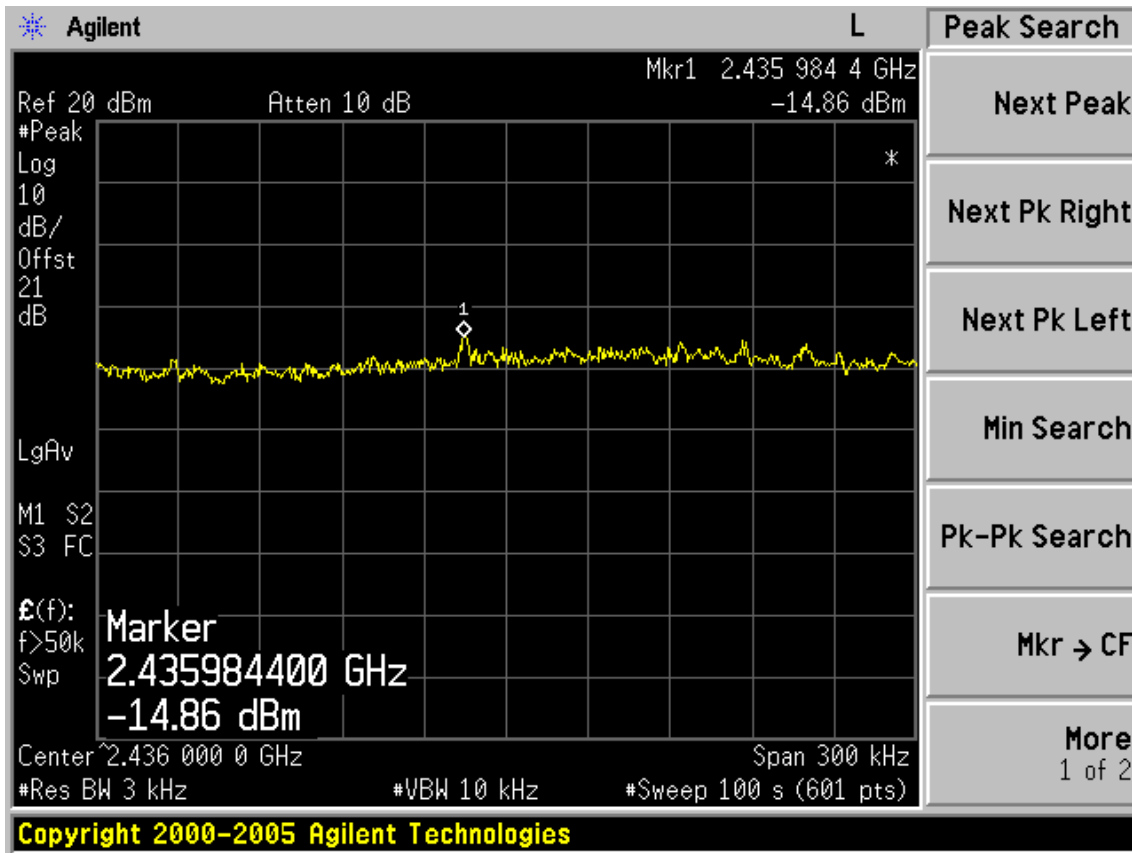


Test Mode: IEEE 802.11g TX

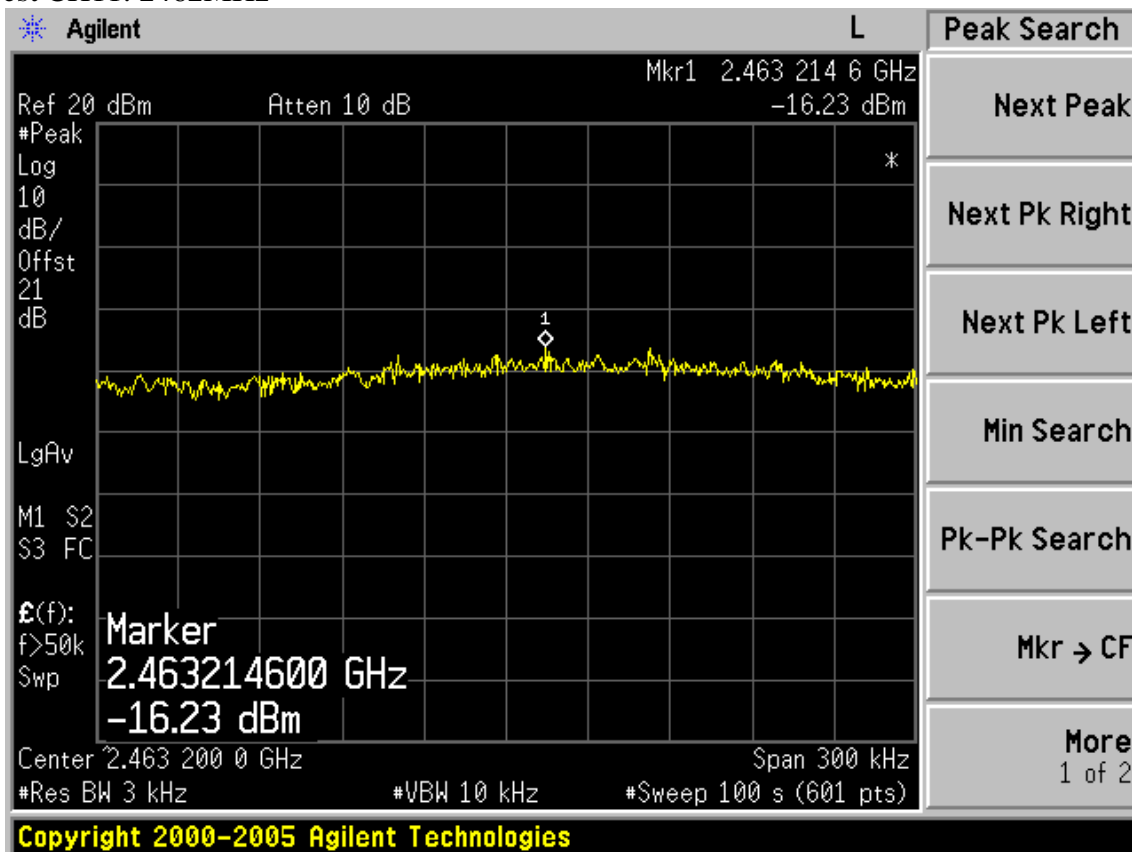
Test CH1: 2412MHz



Test CH6: 2437MHz

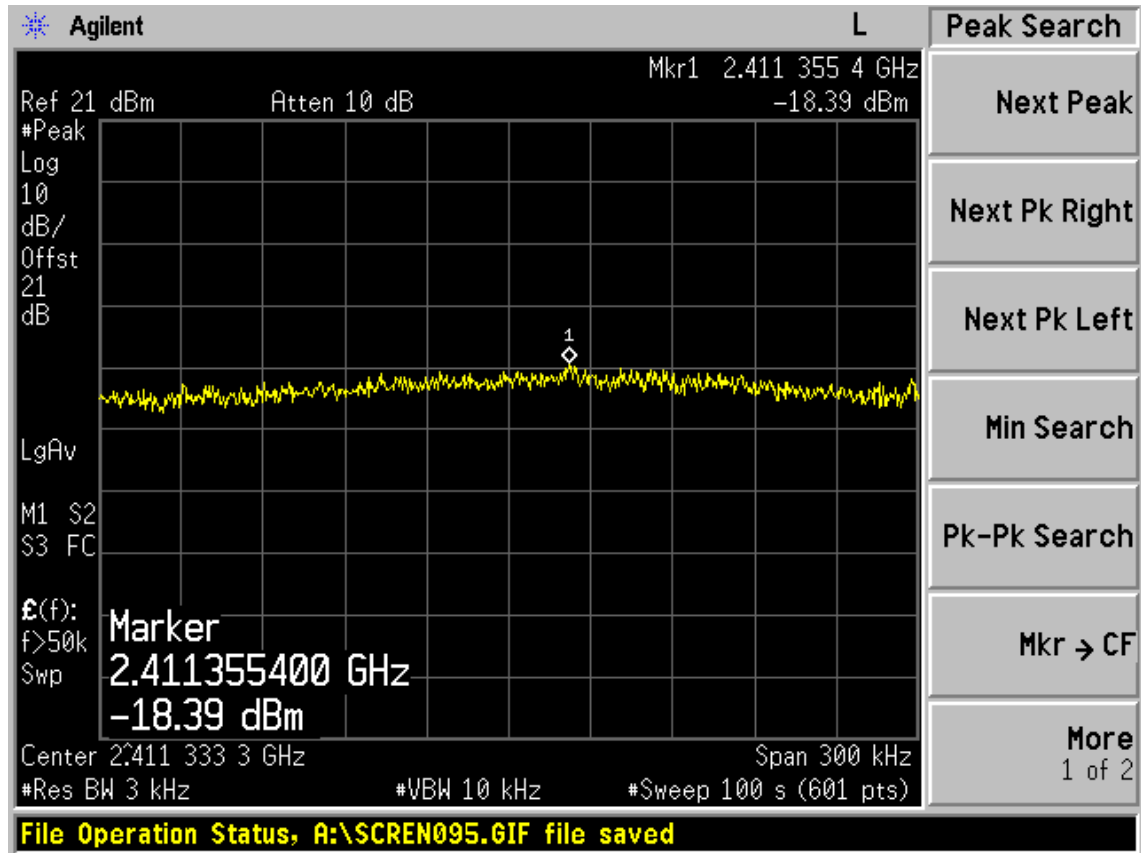


Test CH11: 2462MHz

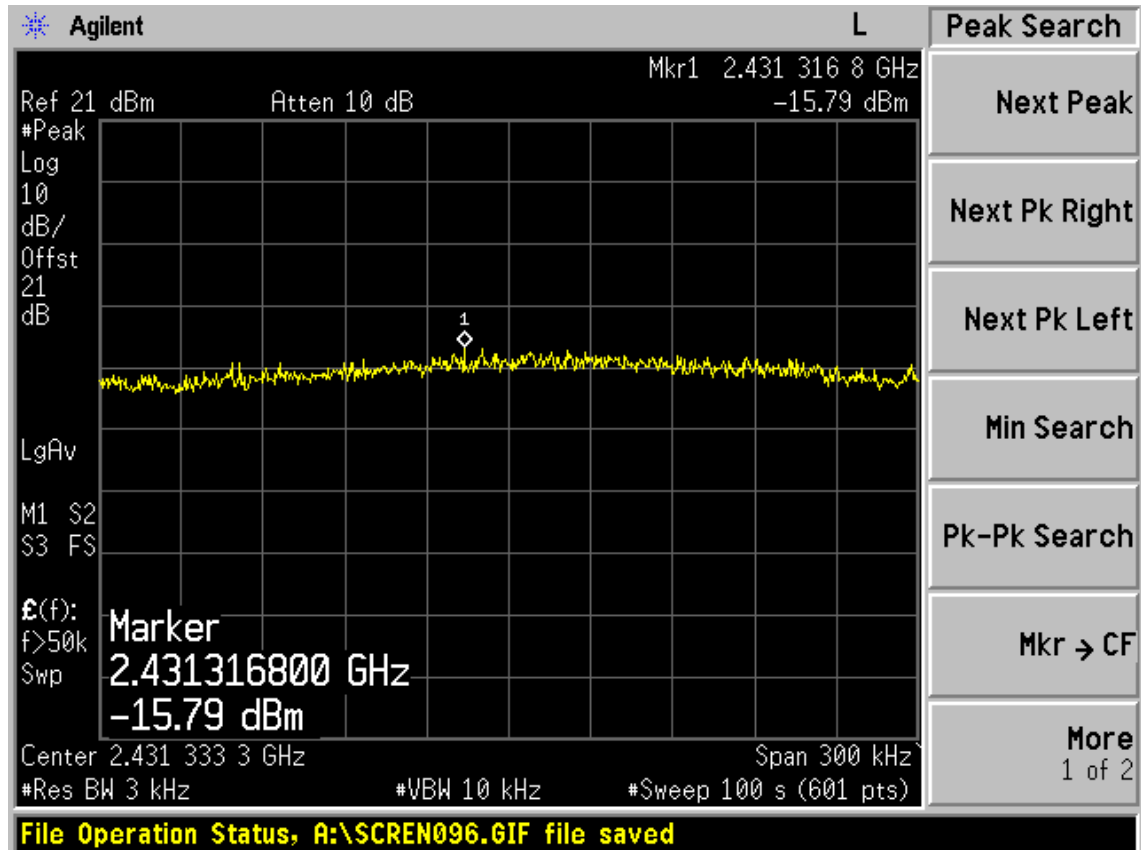


Test Mode: IEEE 802.11n HT20 TX

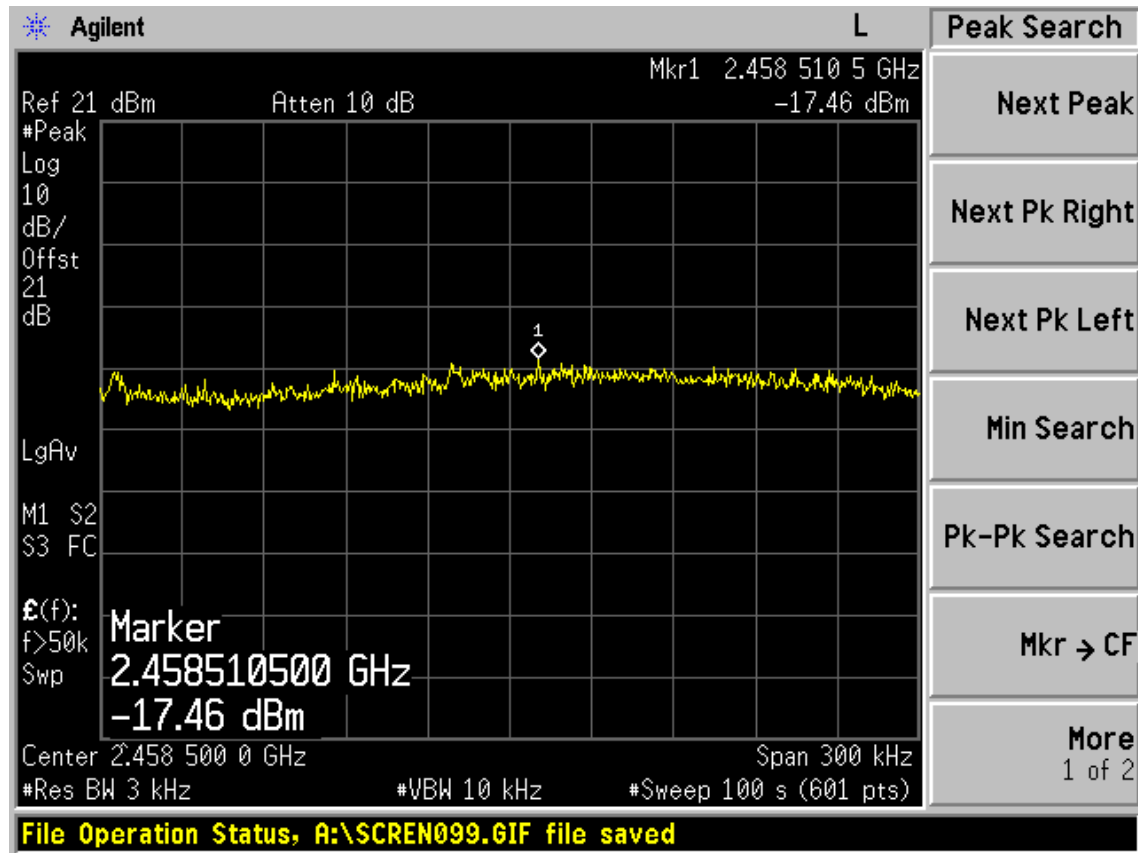
Test CH1: 2412MHz



Test CH6: 2437MHz

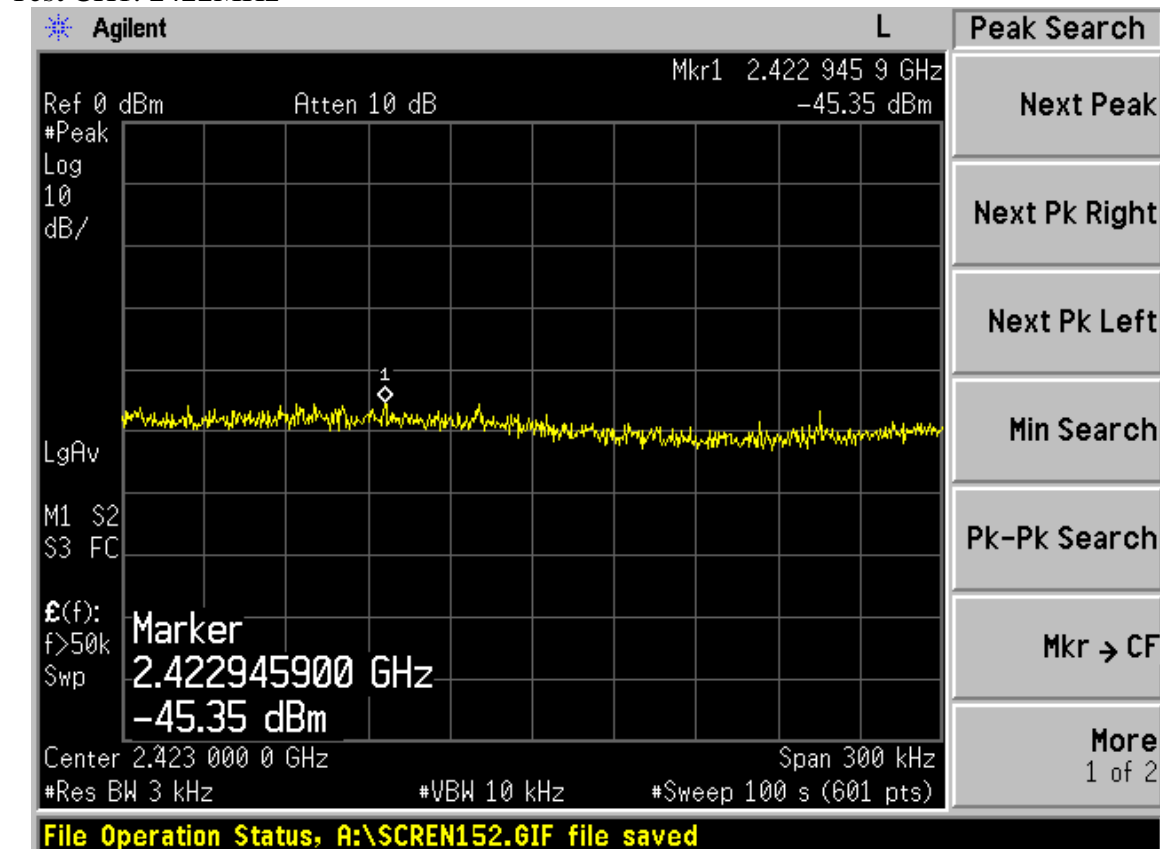


Test CH11: 2462MHz

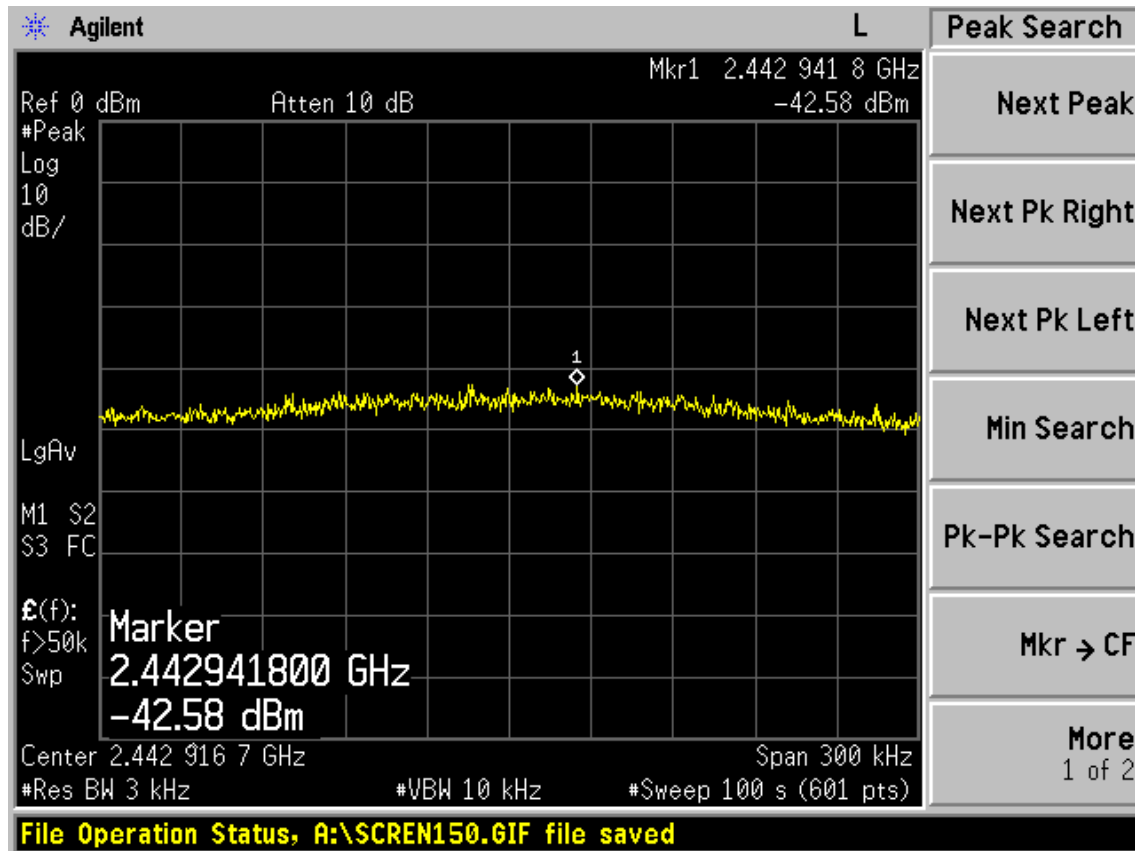


Test Mode: IEEE 802.11n HT40 TX

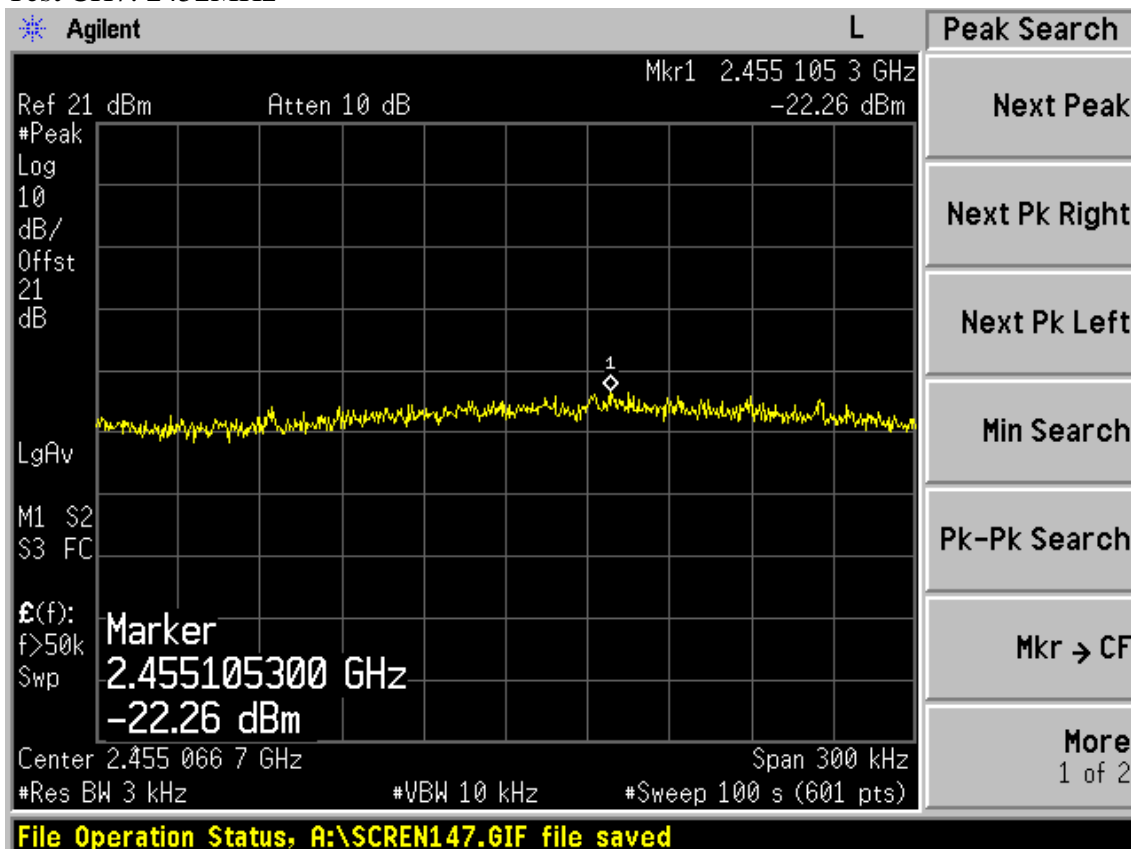
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



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 MIMO 2X2 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 2dBi.

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: 300Mbps Wireless N PCI Adapter		
M/N: APLDT300N1		
Test date: 2013-03-22	Pressure: 101.3±1.0 kpa	Humidity:49.7±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature21.9±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 2 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	17.74	59.43	2	1.58	0.0187
	CH6	2437	17.30	53.70	2	1.58	0.0169
	CH11	2462	17.58	57.28	2	1.58	0.0181
11g	CH1	2412	17.71	59.02	2	1.58	0.0186
	CH6	2437	18.19	65.92	2	1.58	0.0208
	CH11	2462	16.84	48.31	2	1.58	0.0152
11n HT20	CH1	2412	18.20	66.07	2	1.58	0.0208
	CH6	2437	19.58	90.78	2	1.58	0.0286
	CH11	2462	18.76	75.16	2	1.58	0.0237
11n HT40	CH1	2422	16.32	42.85	2	1.58	0.0135
	CH4	2437	18.15	65.31	2	1.58	0.0206
	CH7	2452	16.37	43.35	2	1.58	0.0137

Note: The estimation distance is 20cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]