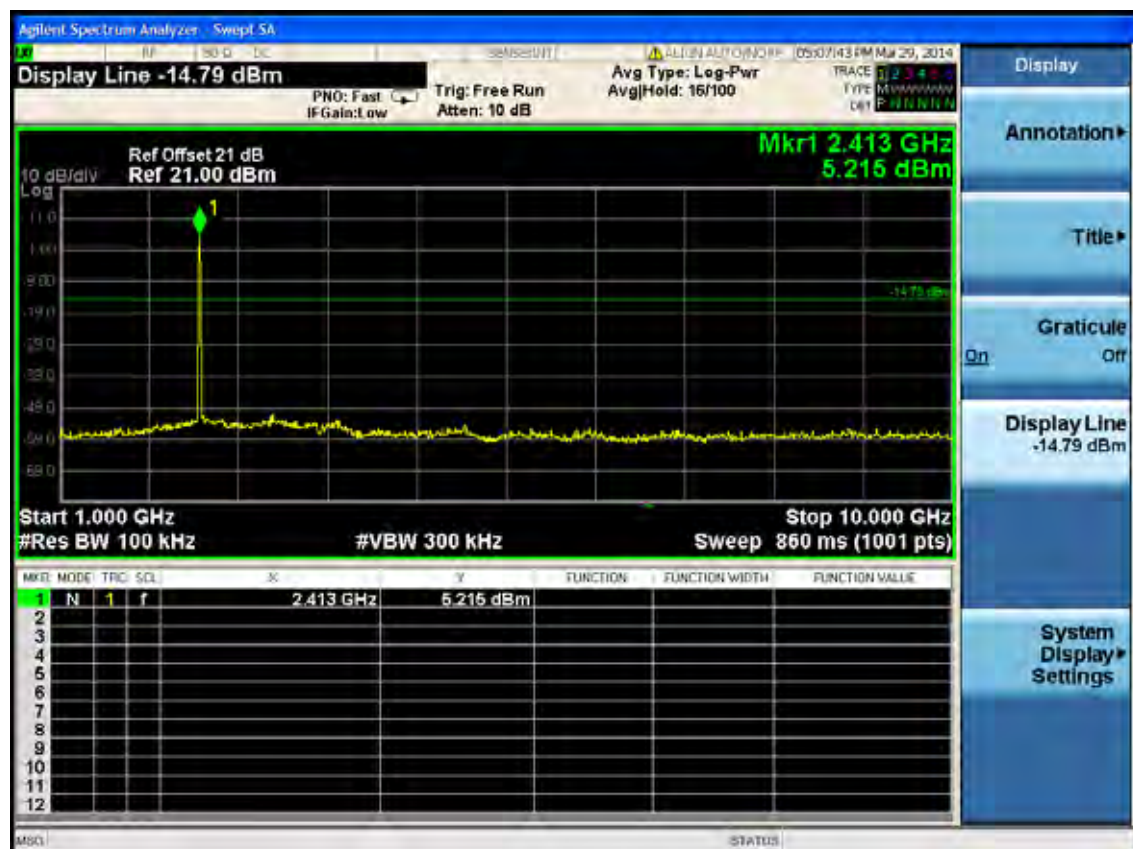
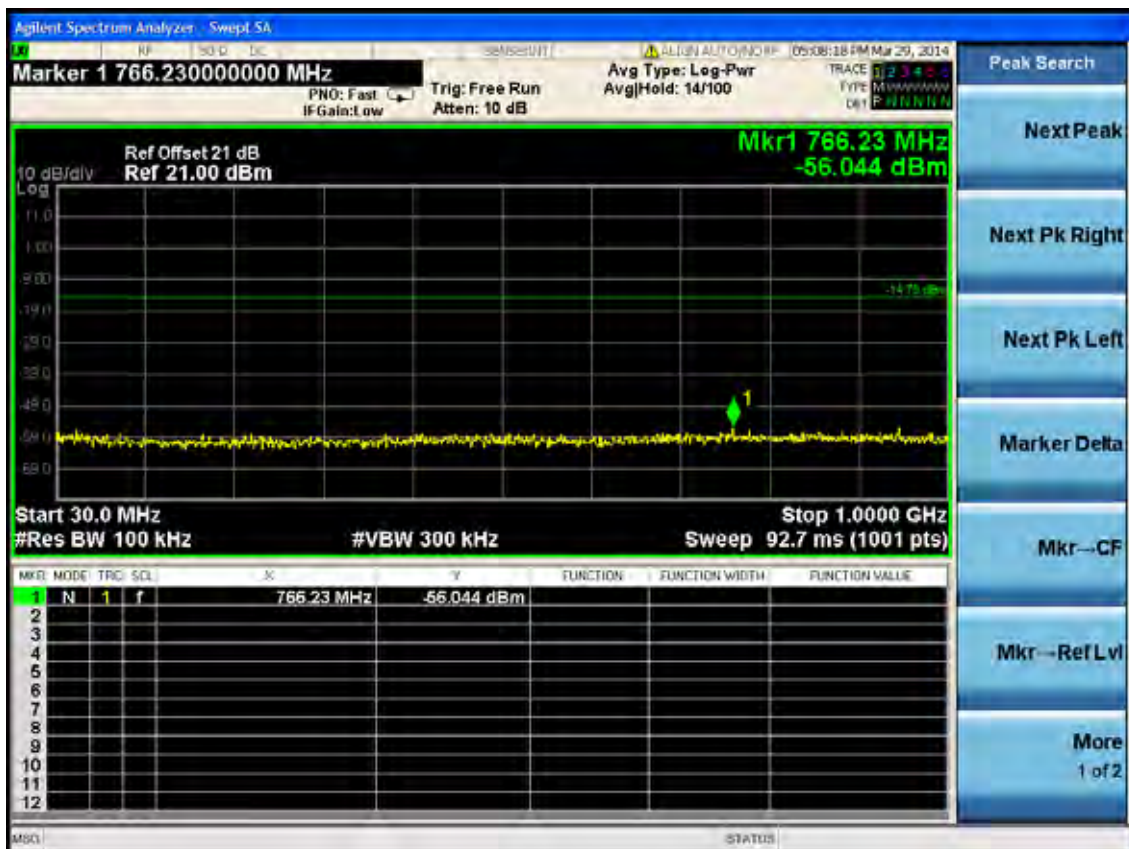
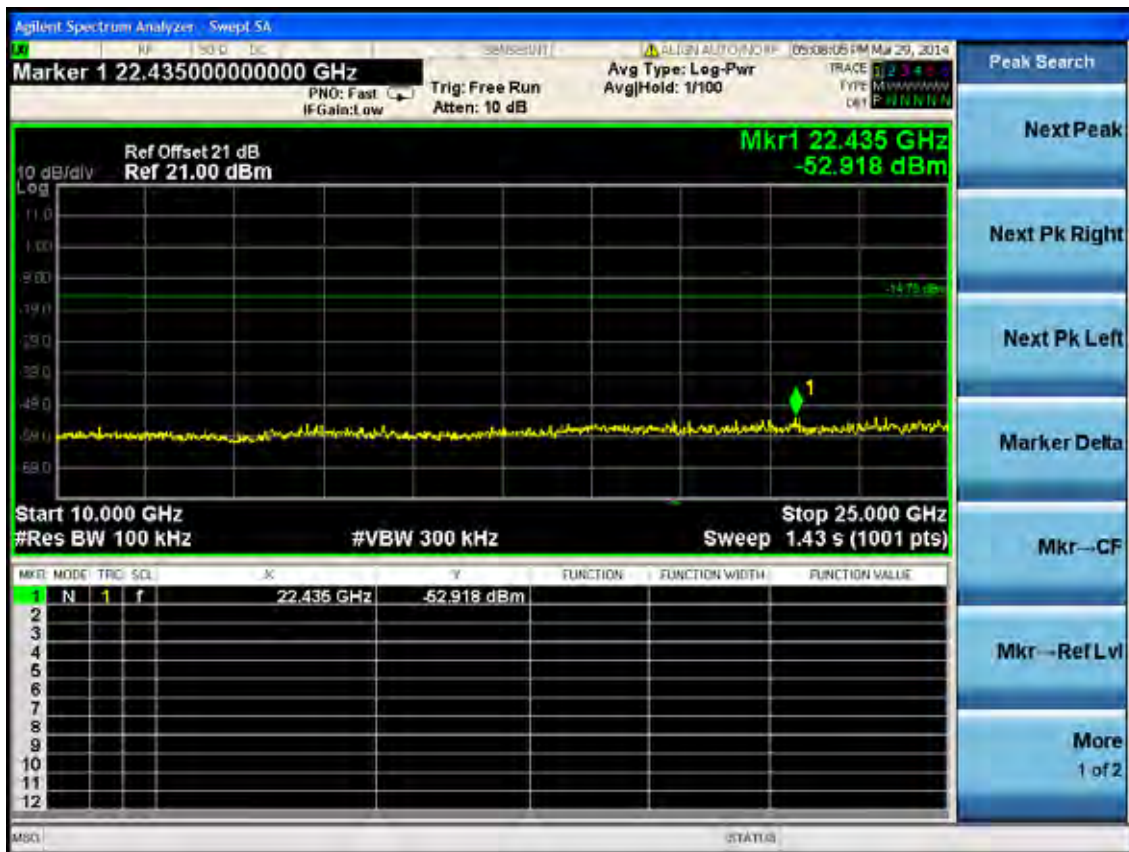


Chain 1:

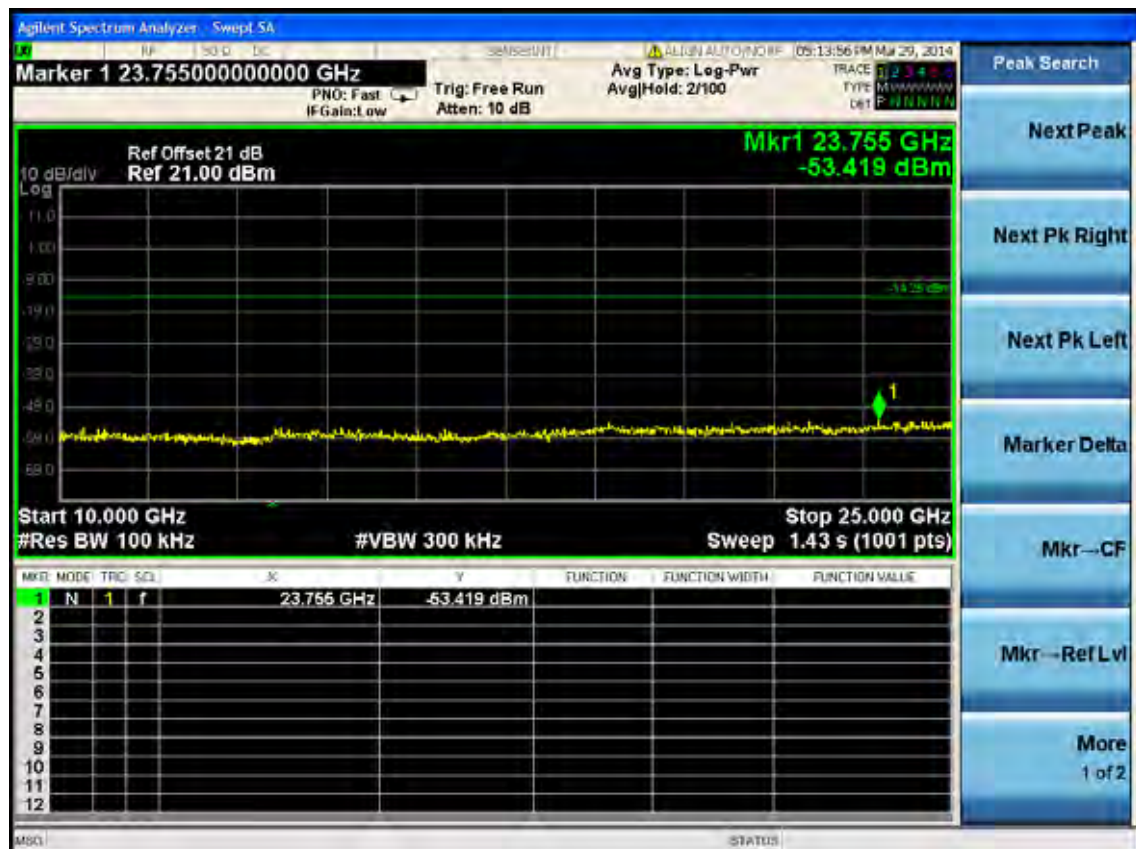
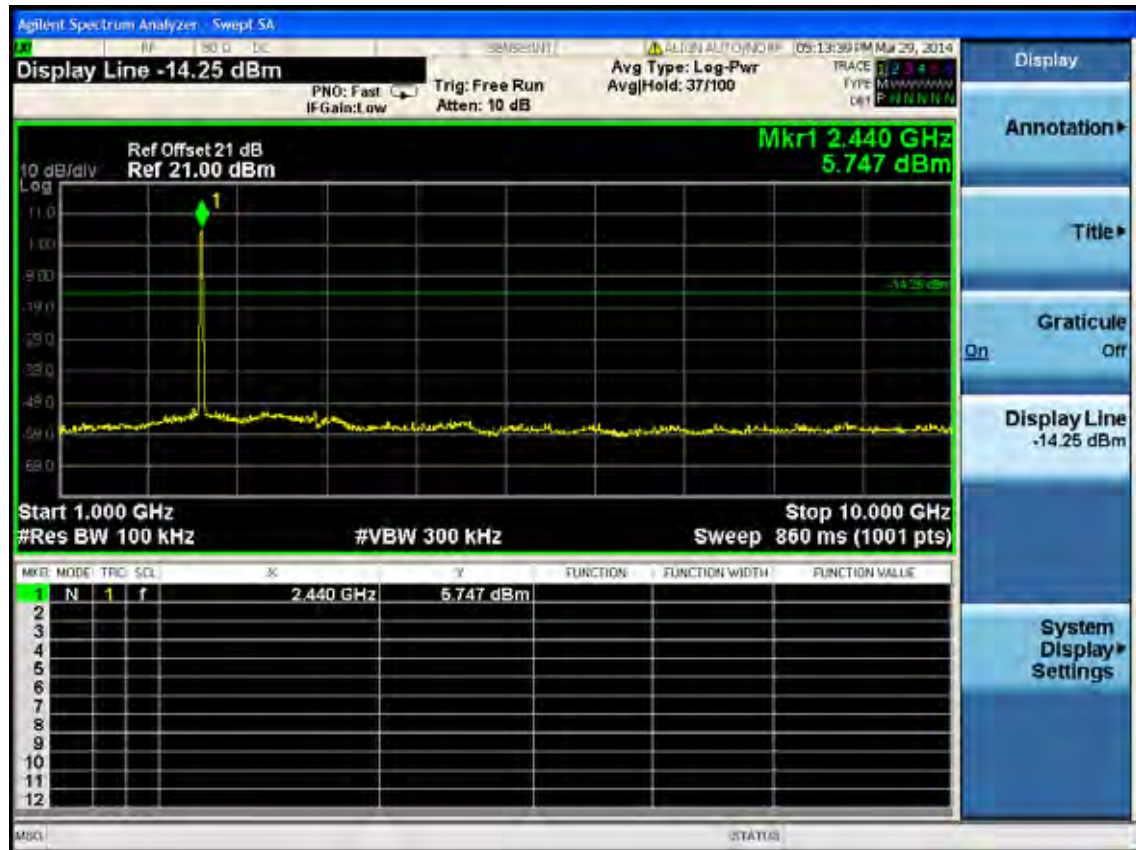
Test Mode: IEEE 802.11b TX

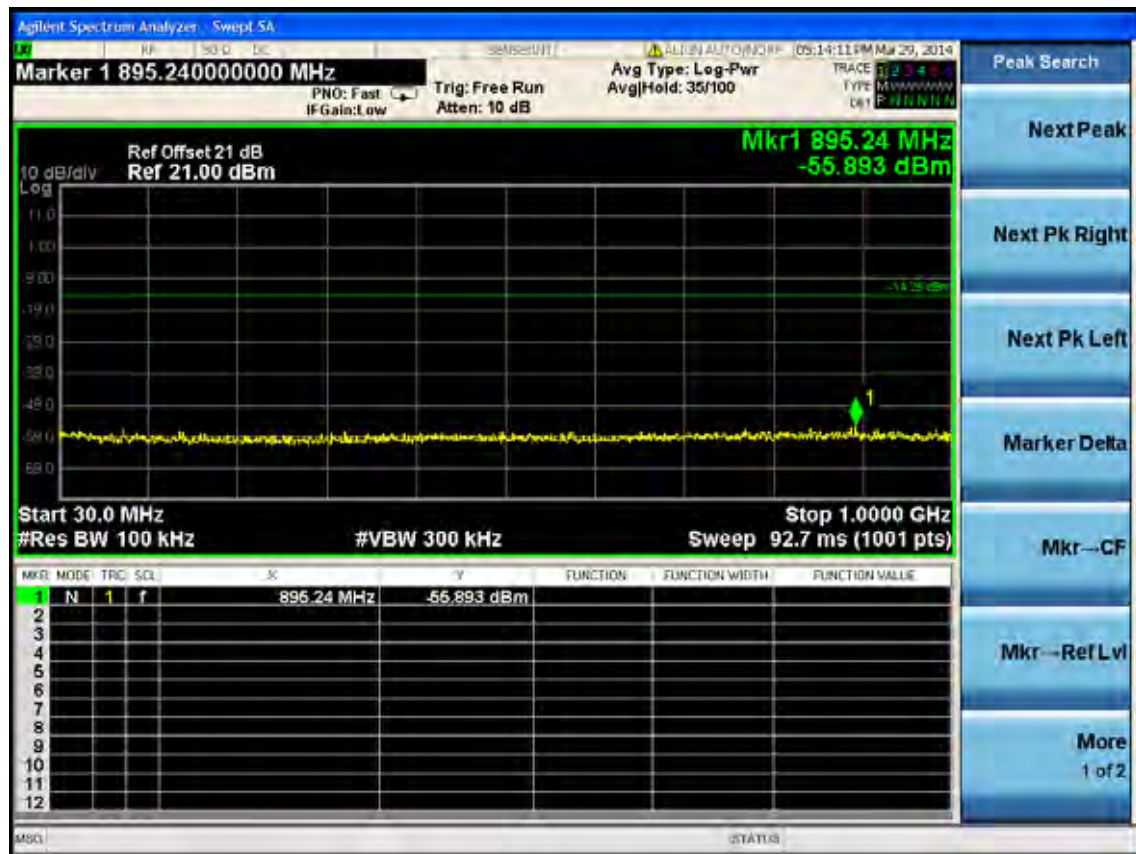
Test CH1: 2412MHz



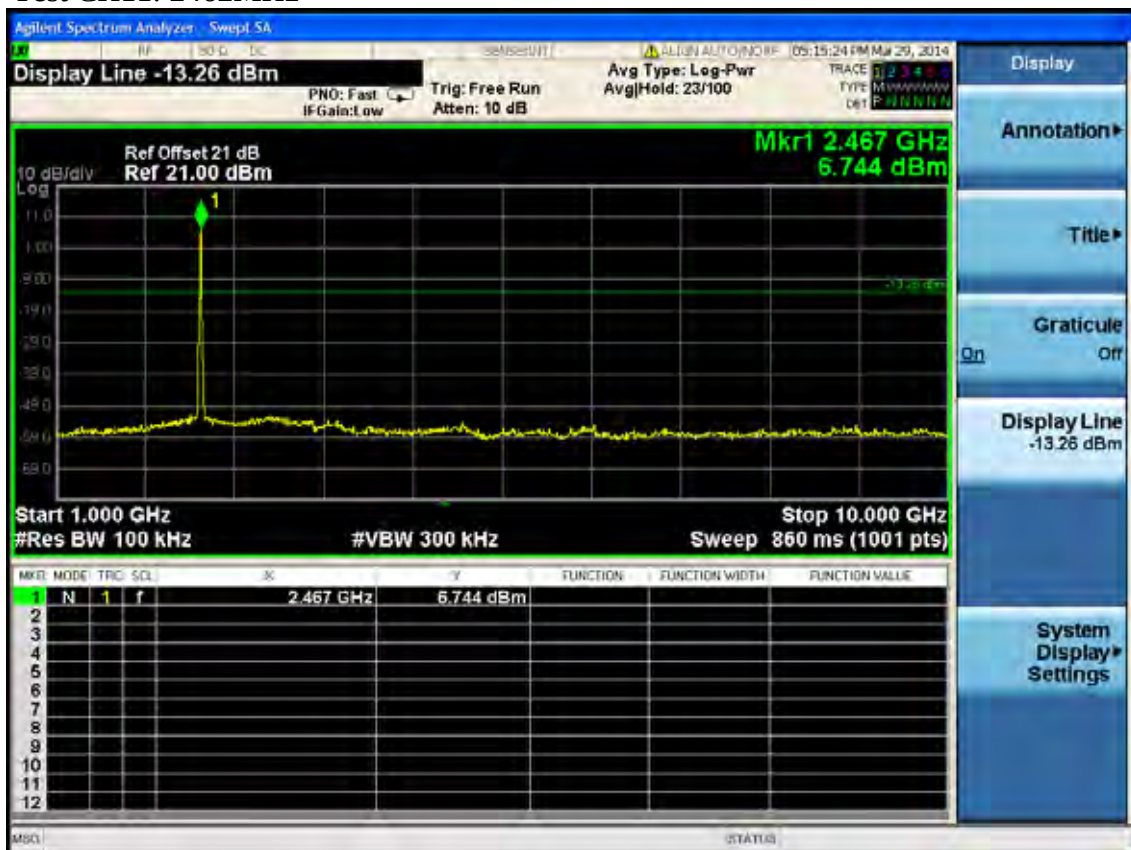


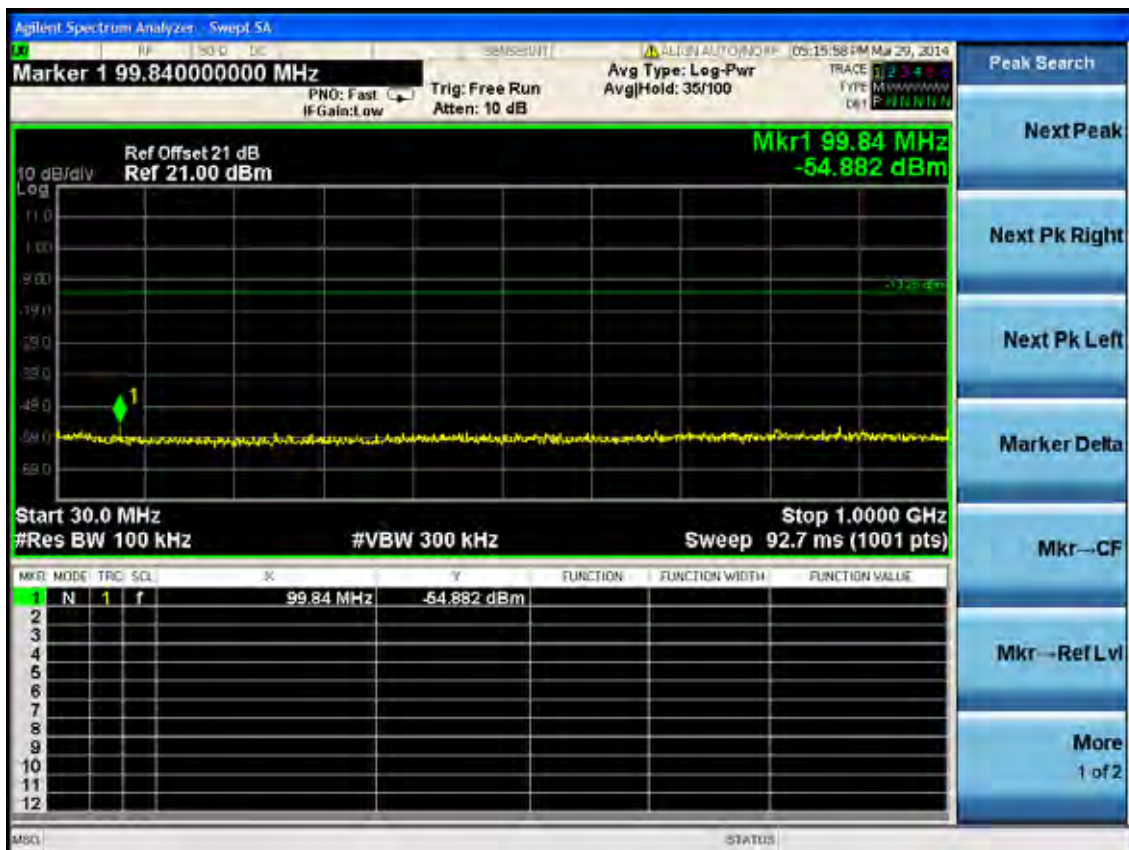
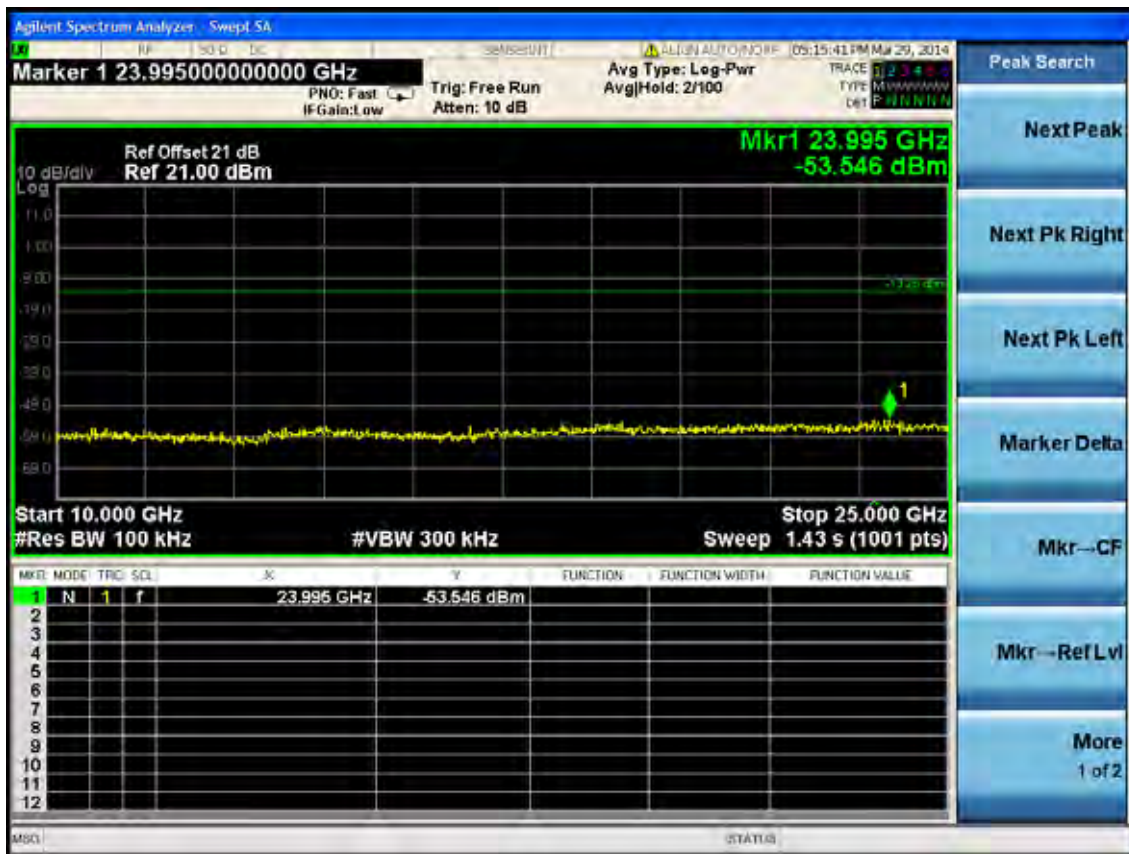
Test CH6: 2437MHz





Test CH11: 2462MHz

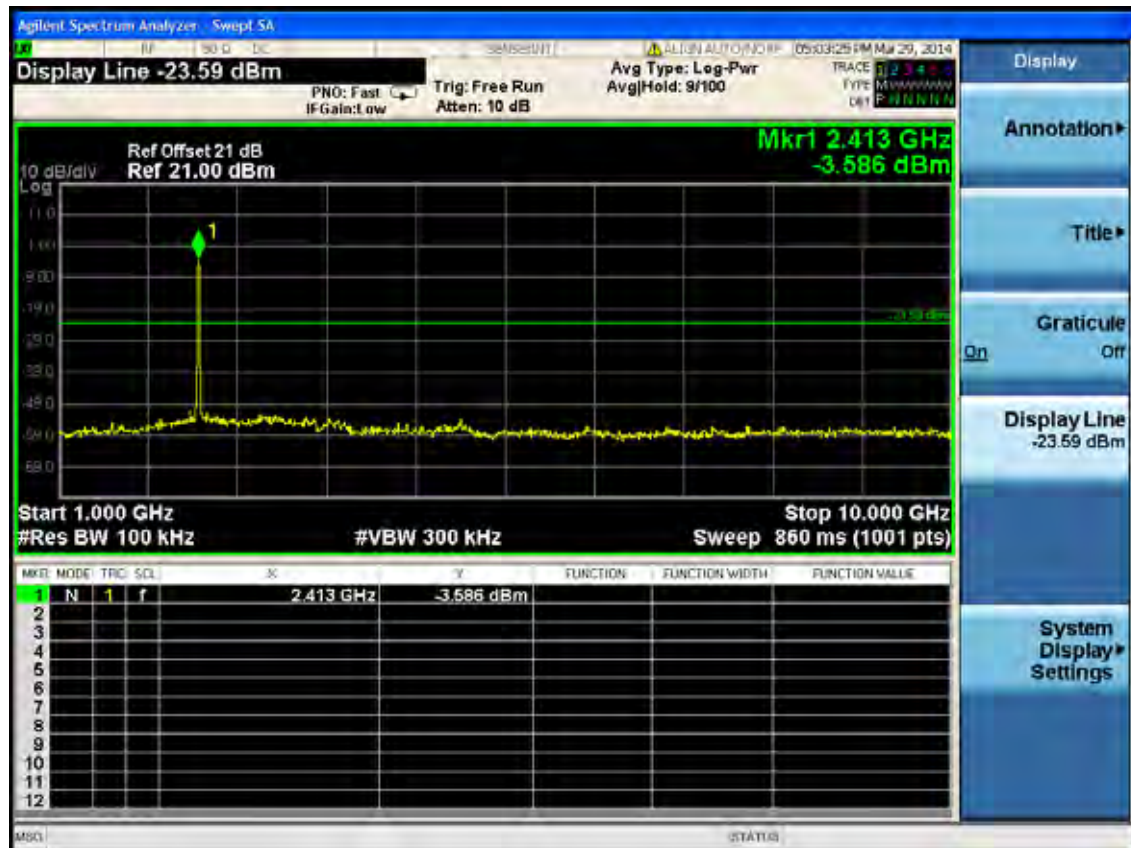


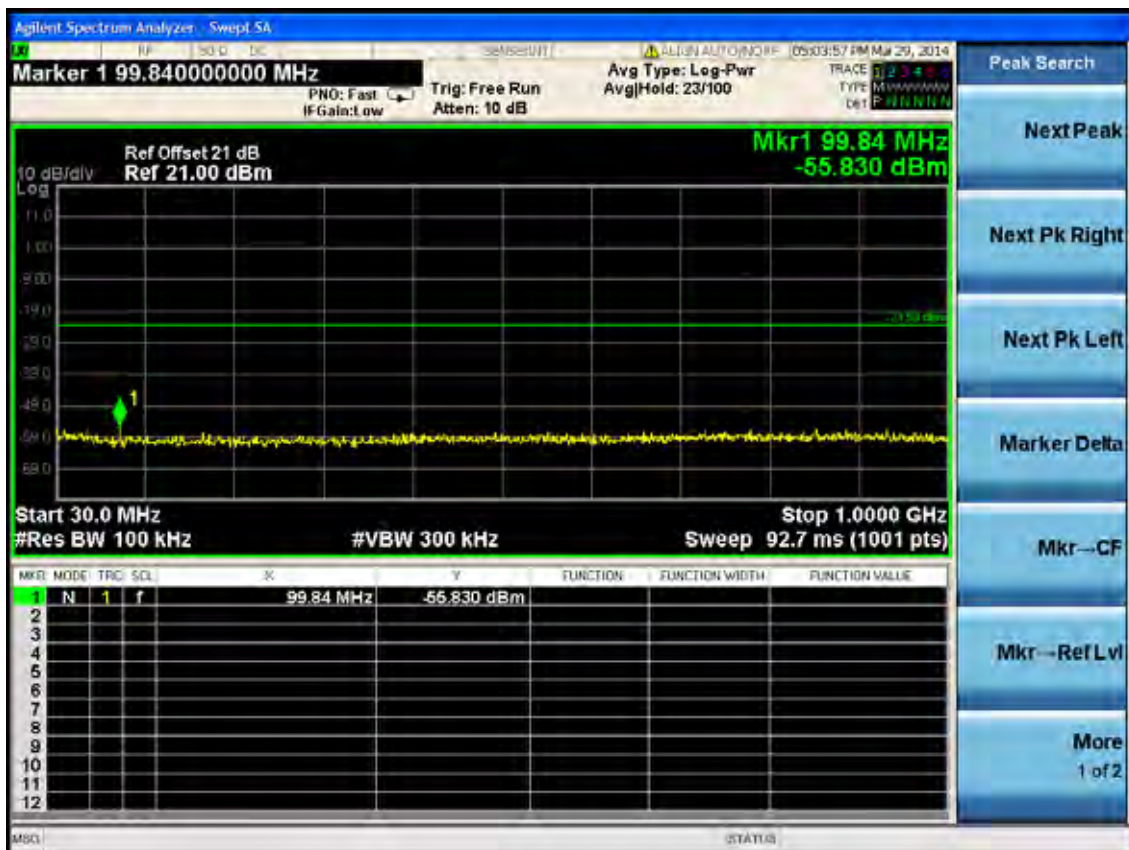
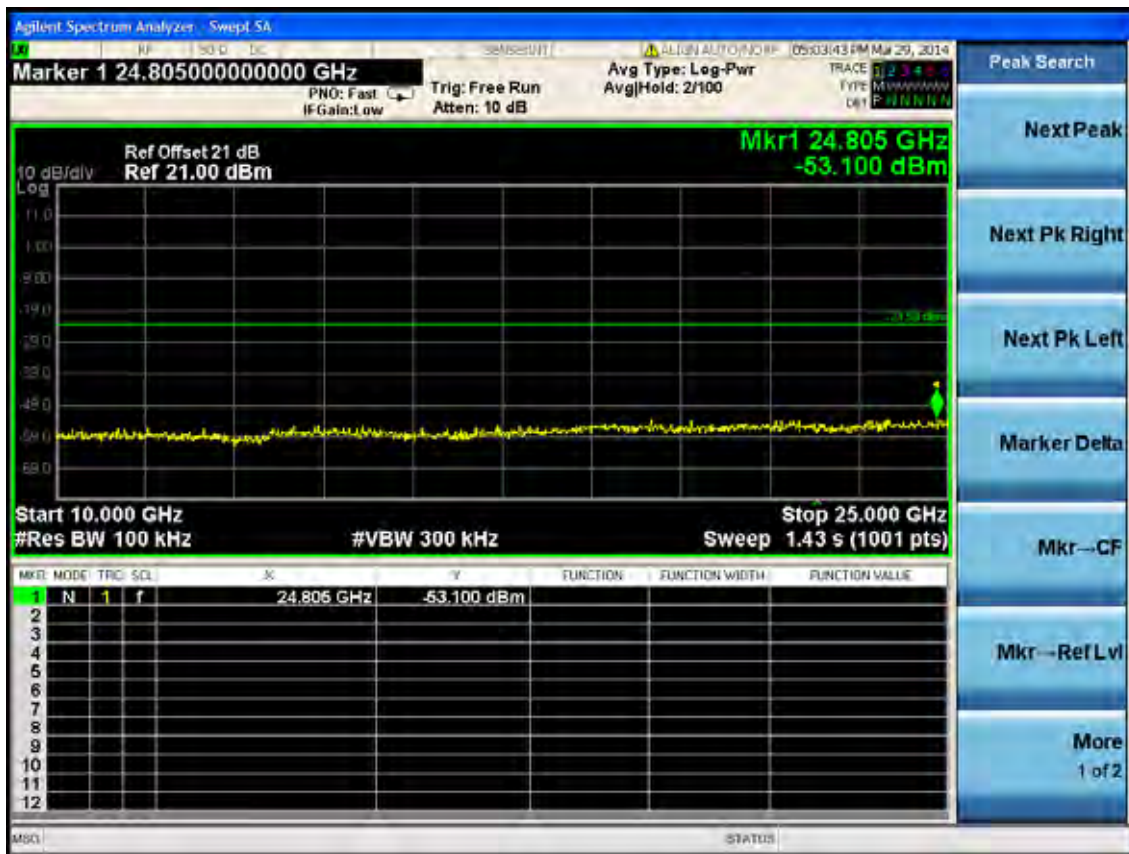




Test Mode: IEEE 802.11g TX

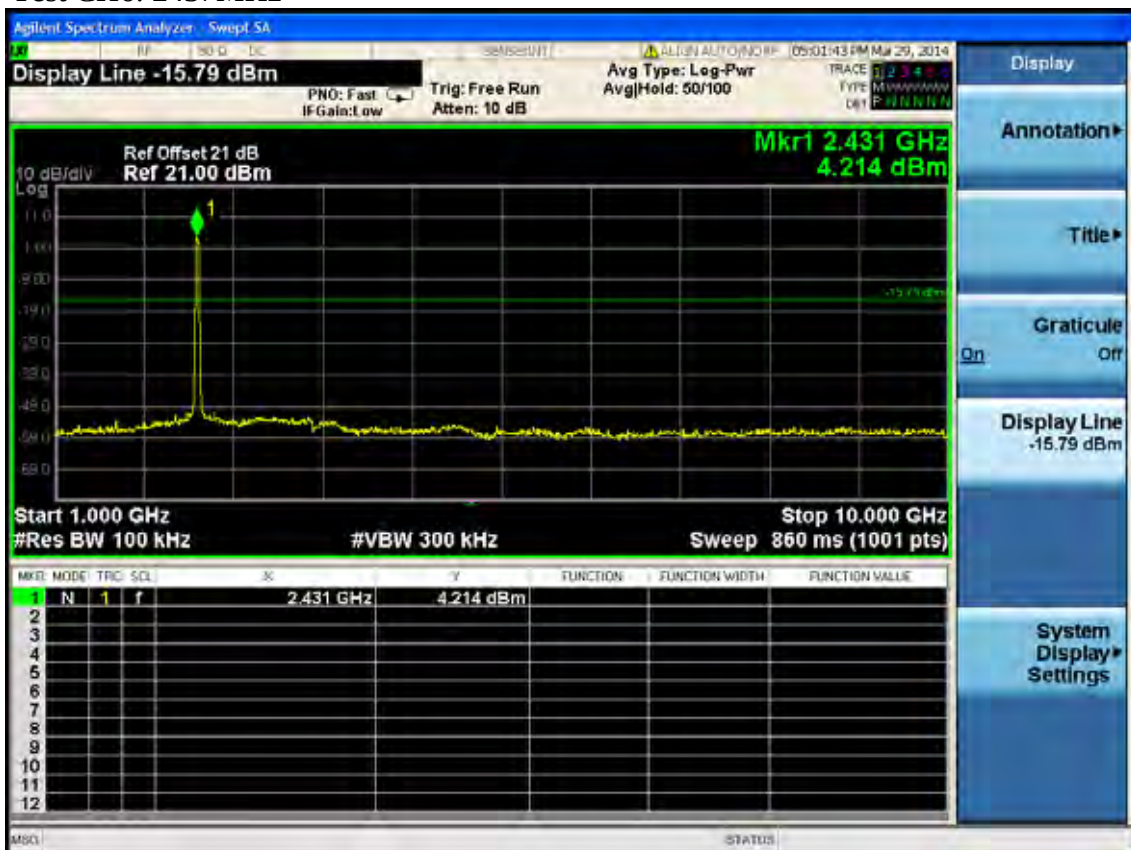
Test CH1: 2412MHz

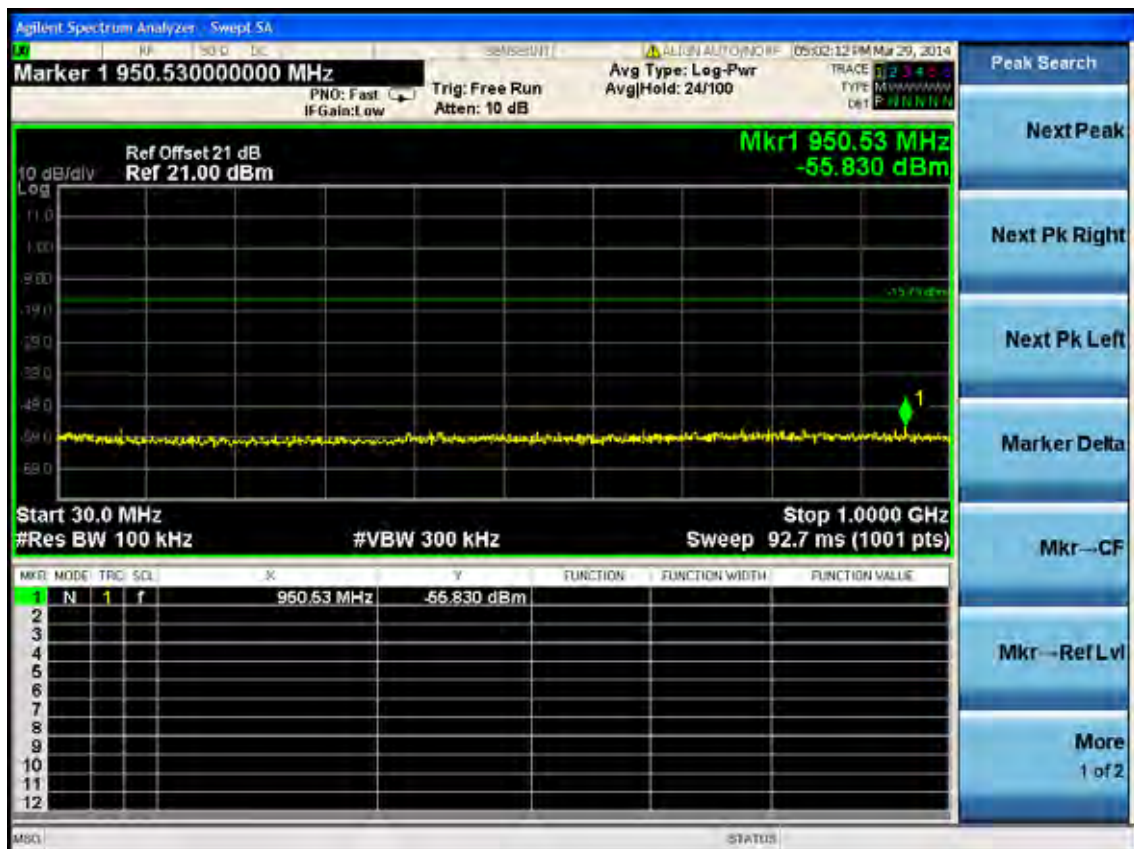
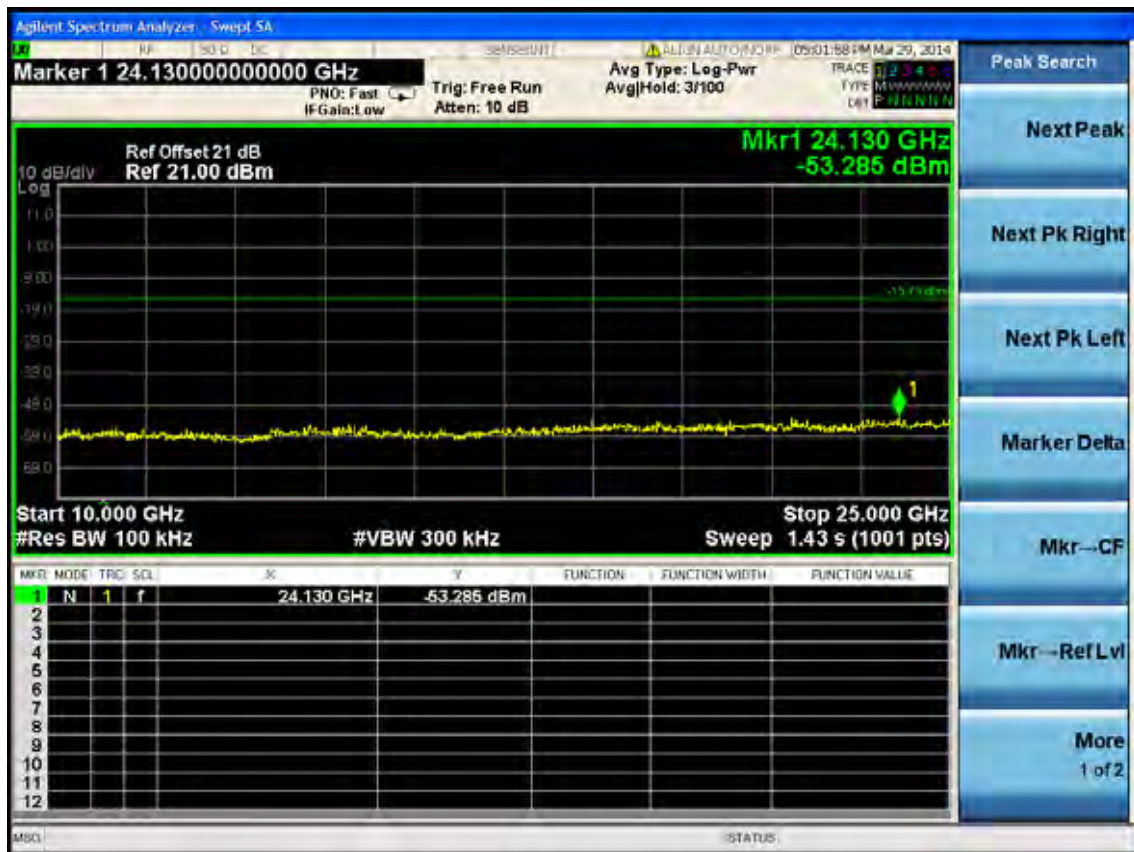




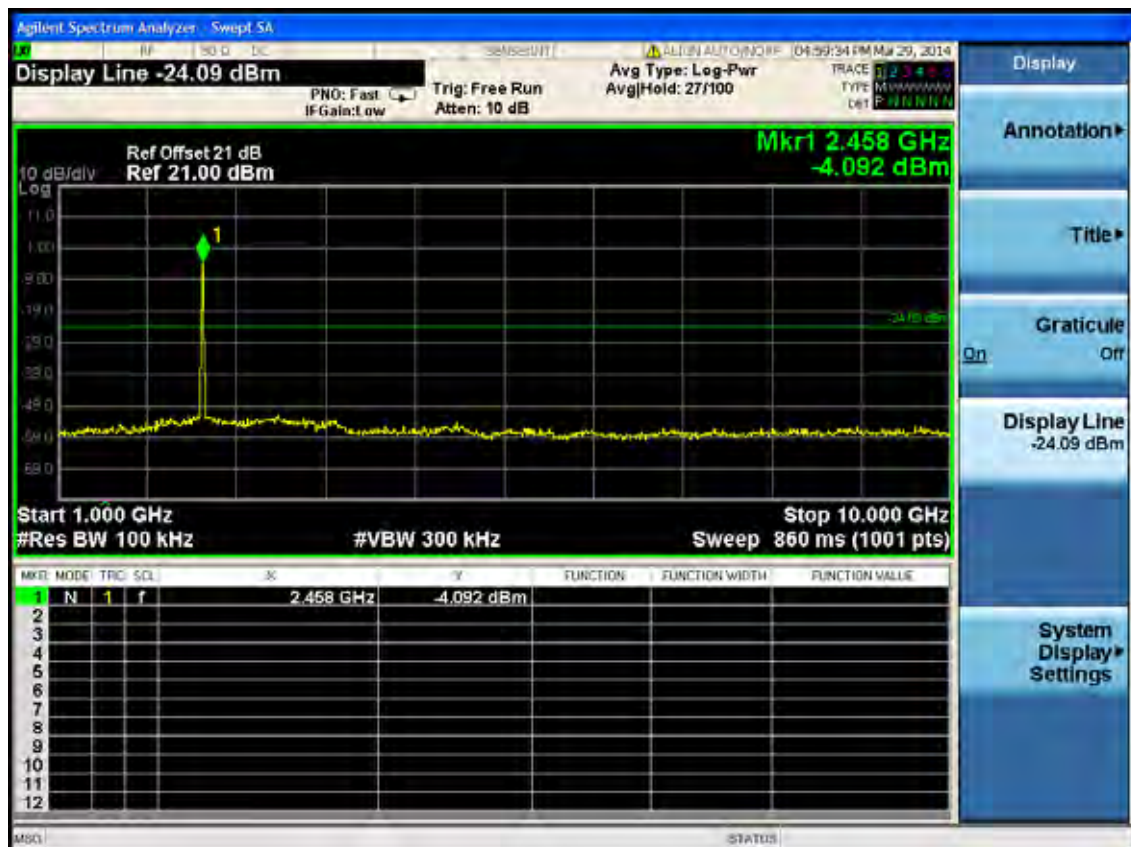


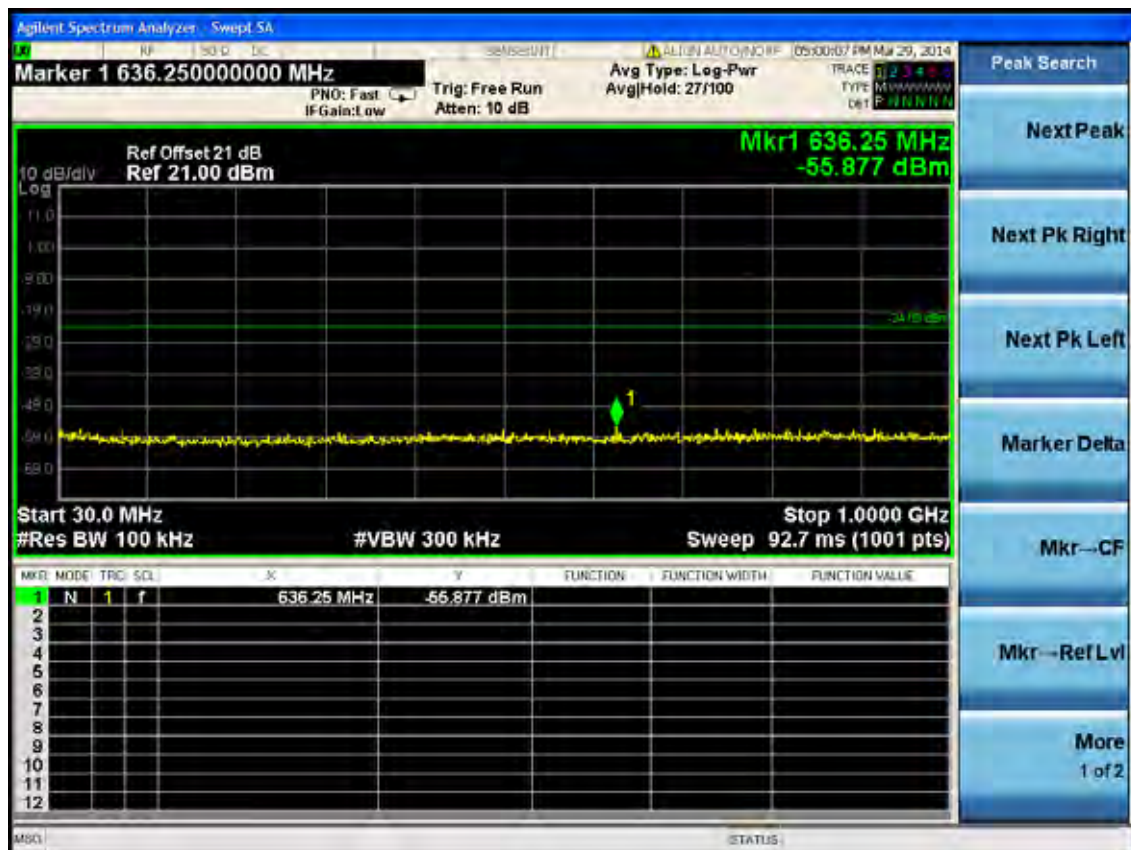
Test CH6: 2437MHz



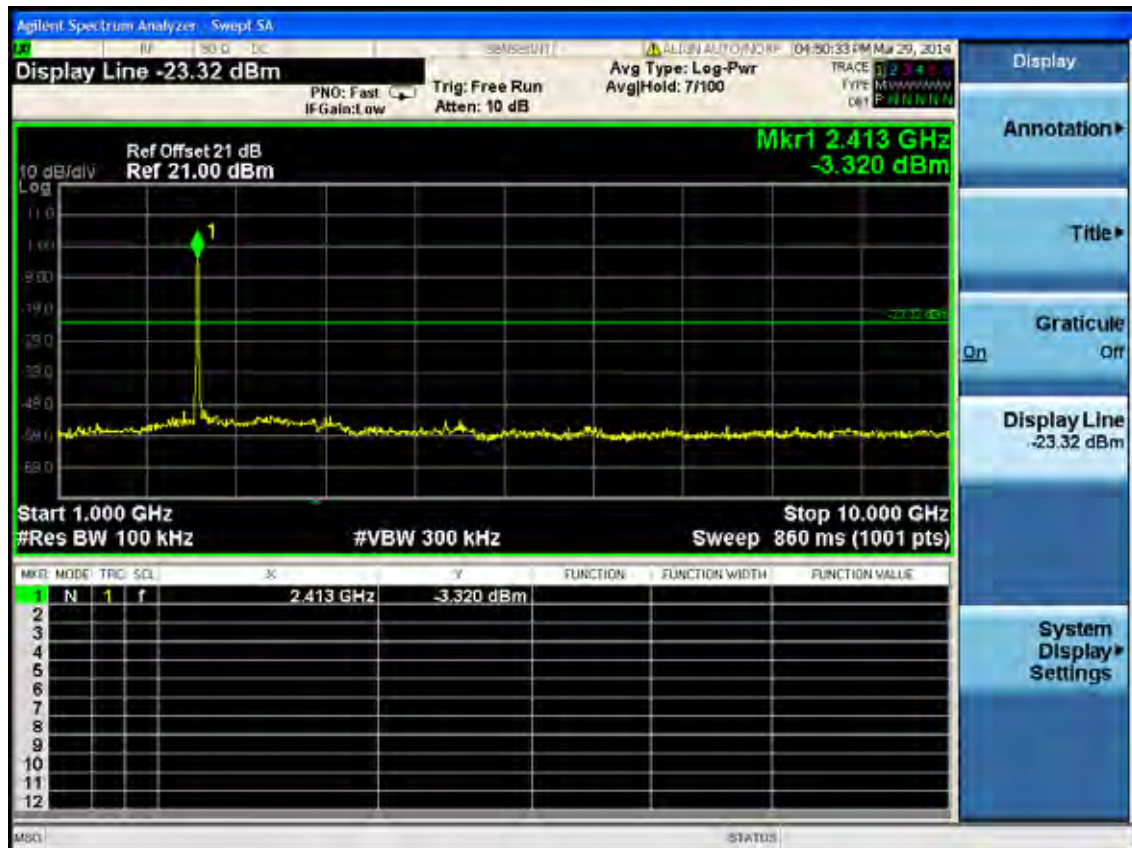


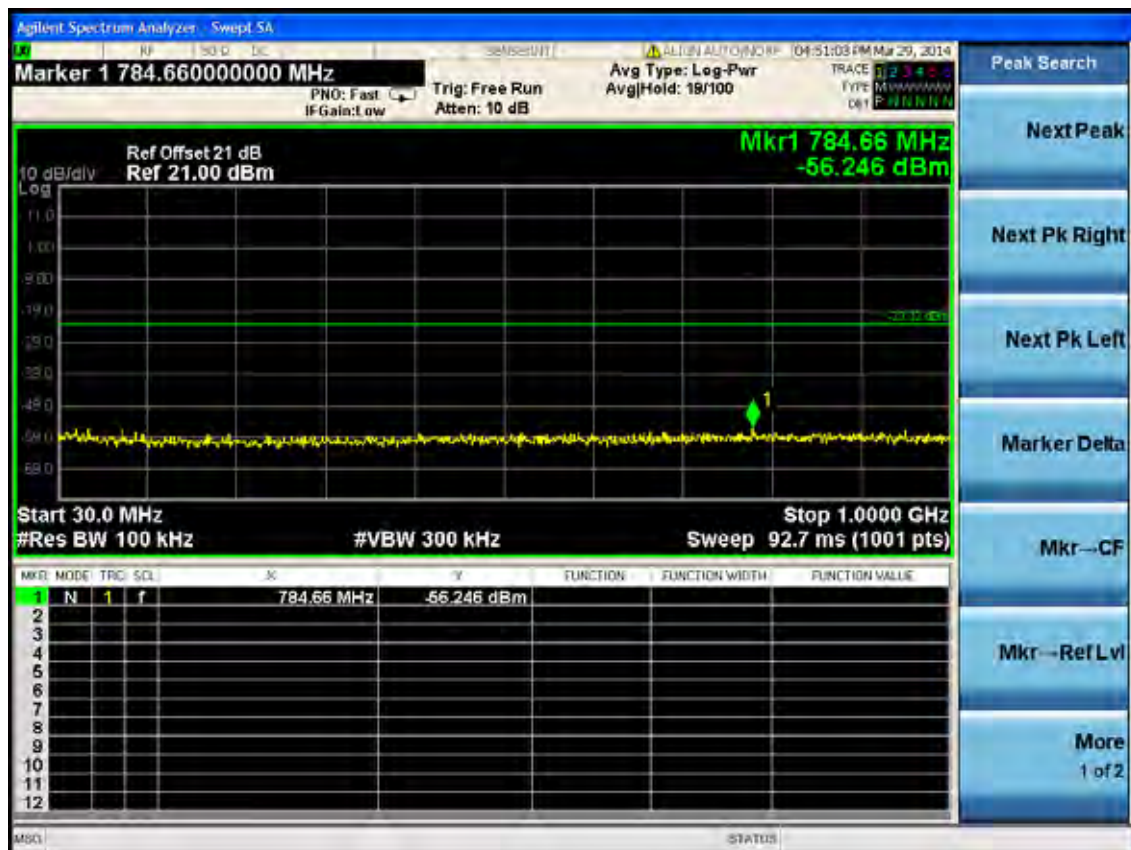
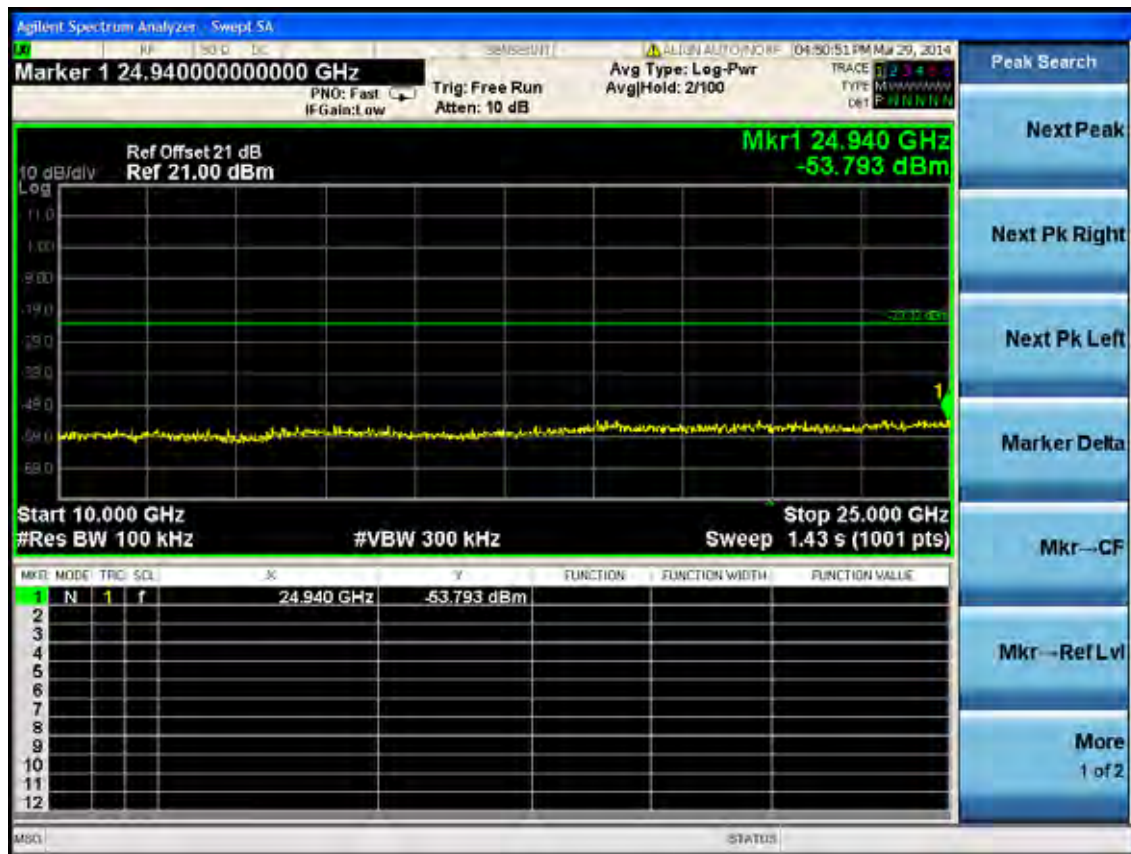
Test CH11: 2462MHz



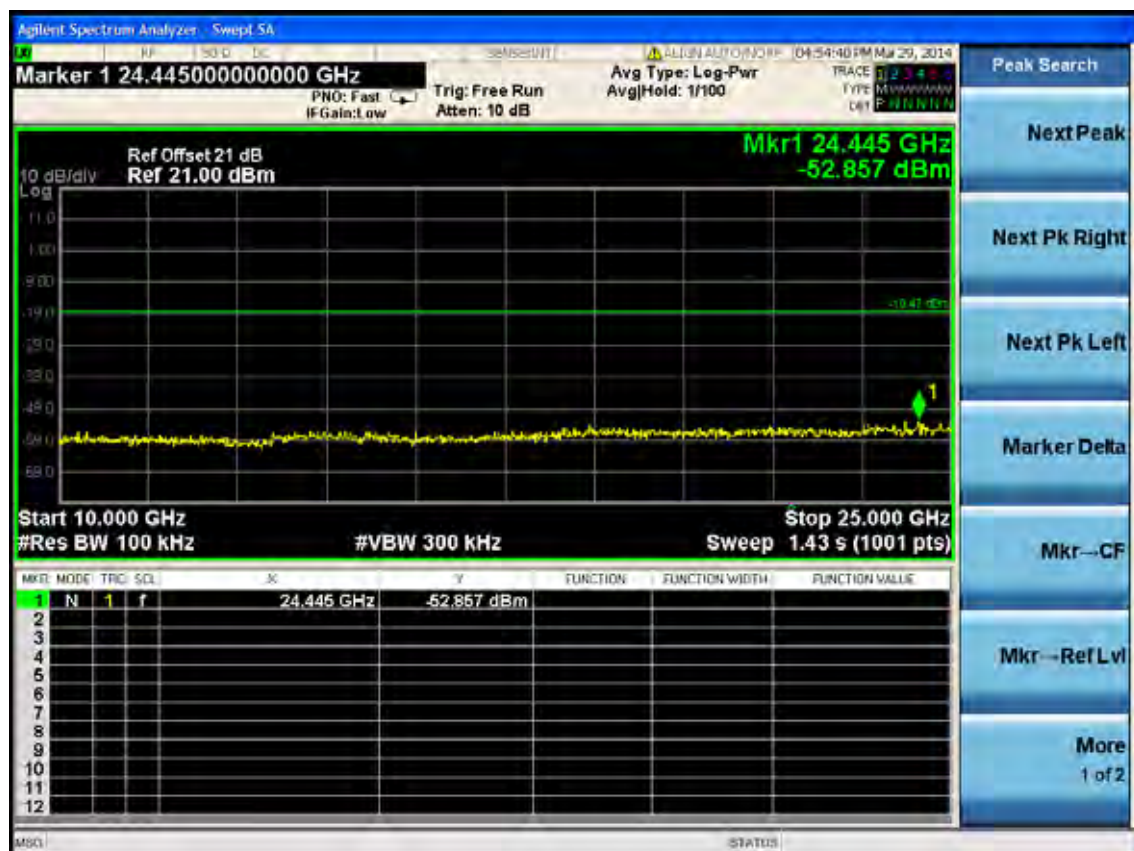
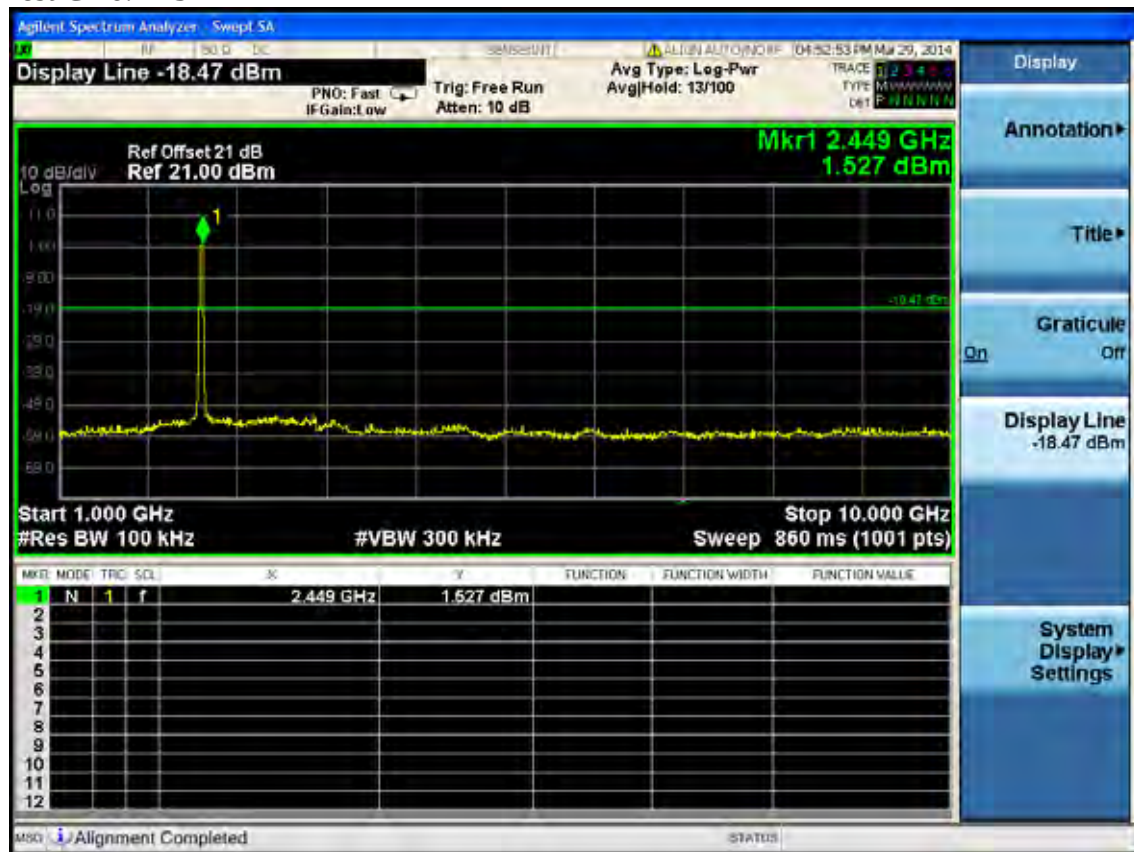


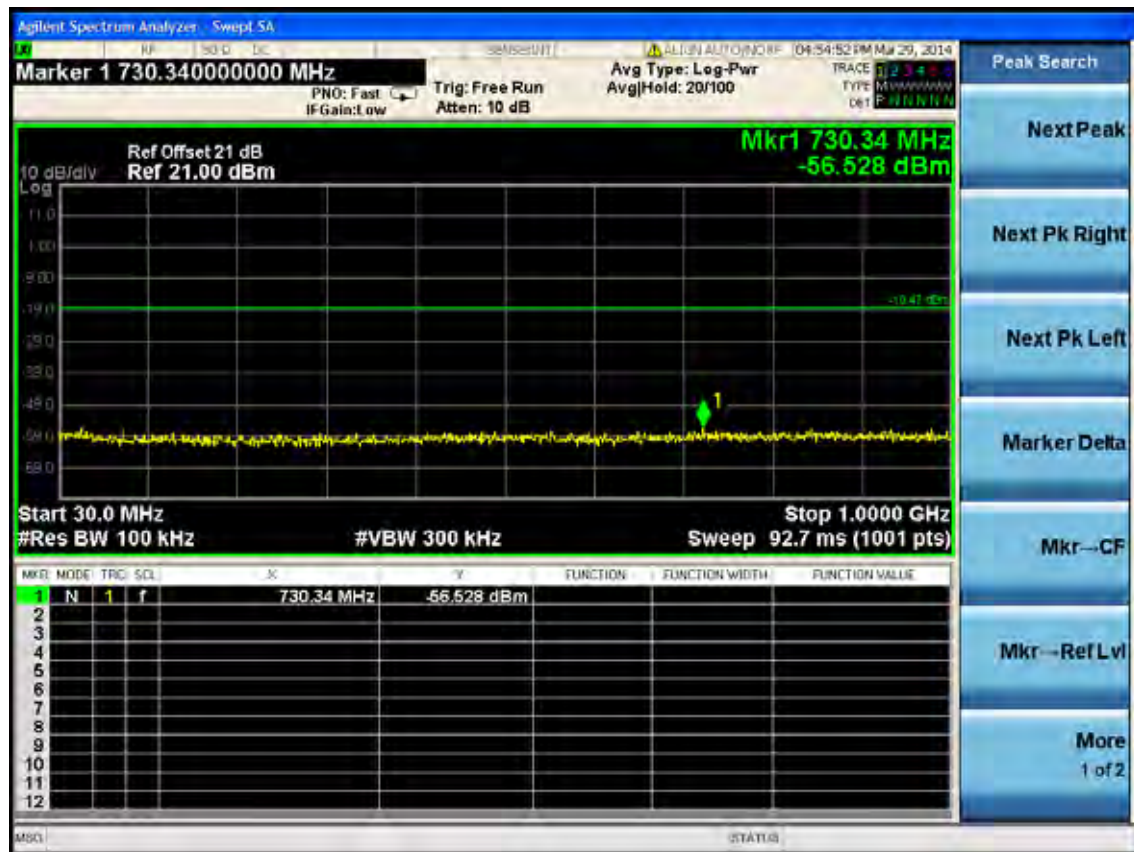
Test Mode: IEEE 802.11n HT20 TX
Test CH1: 2412MHz



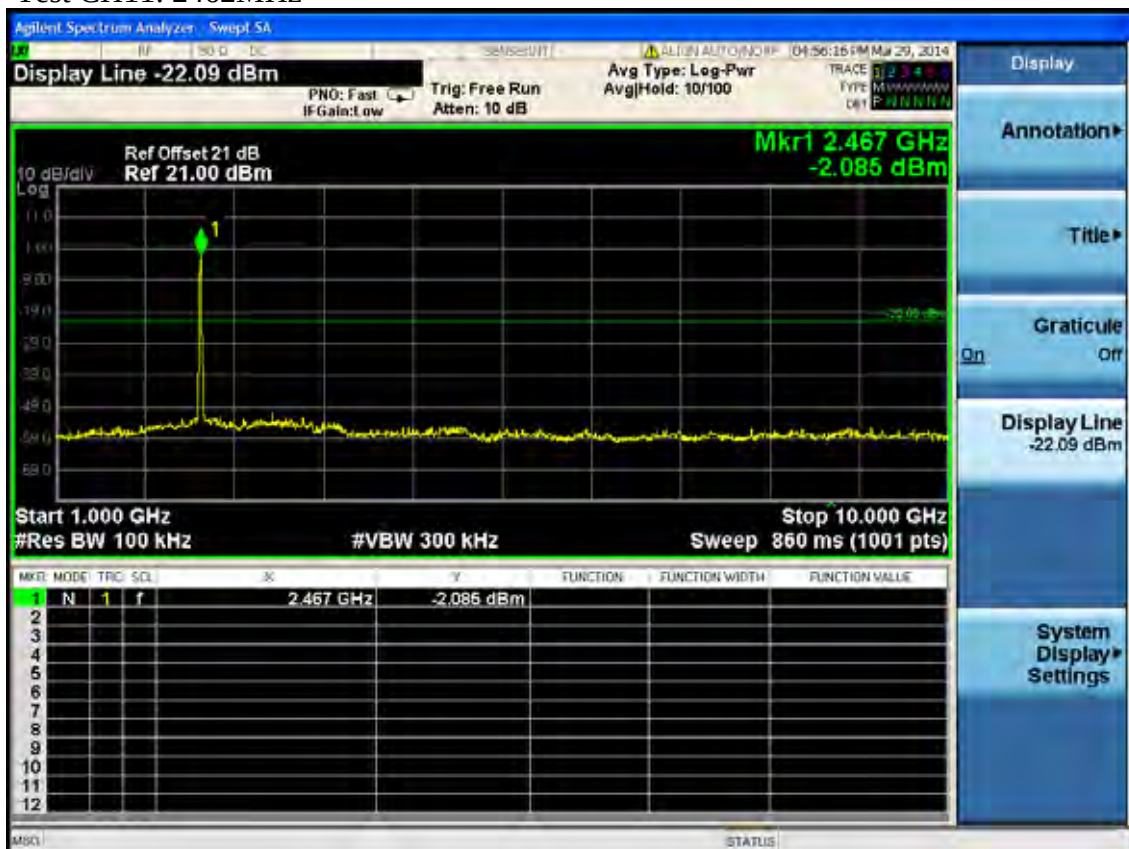


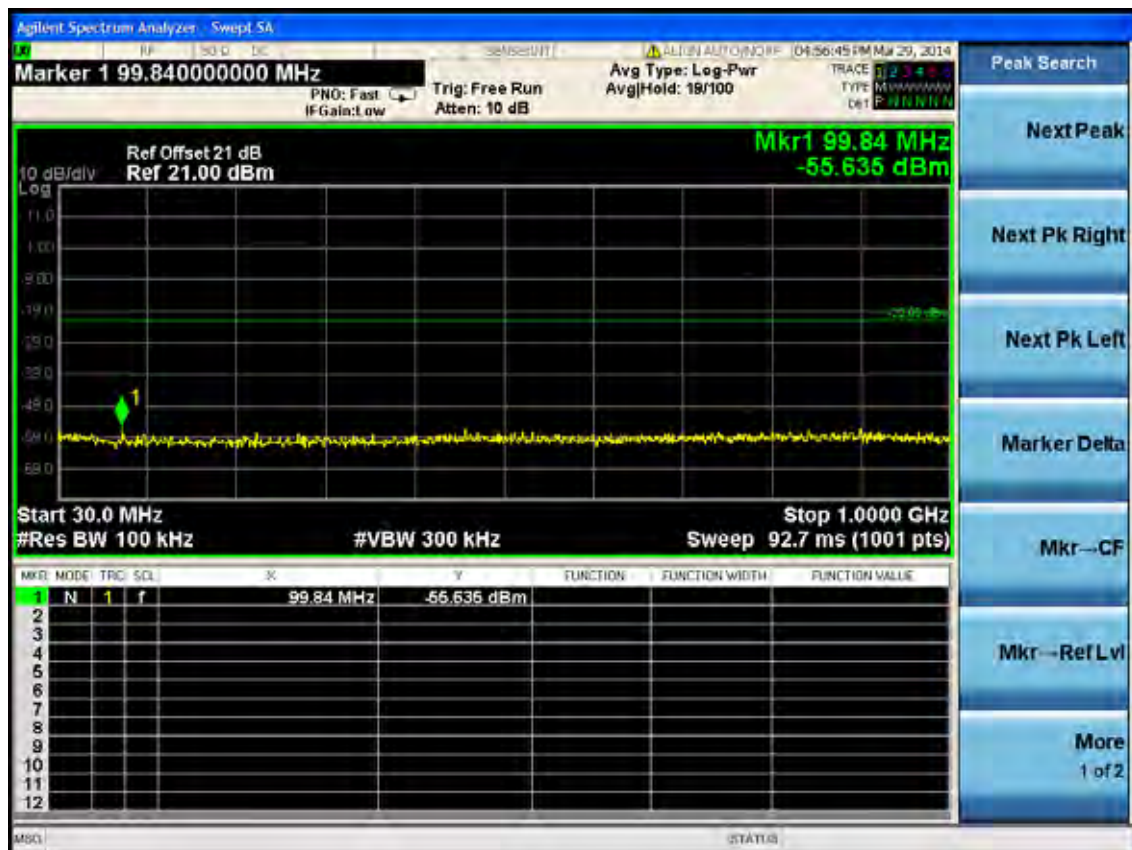
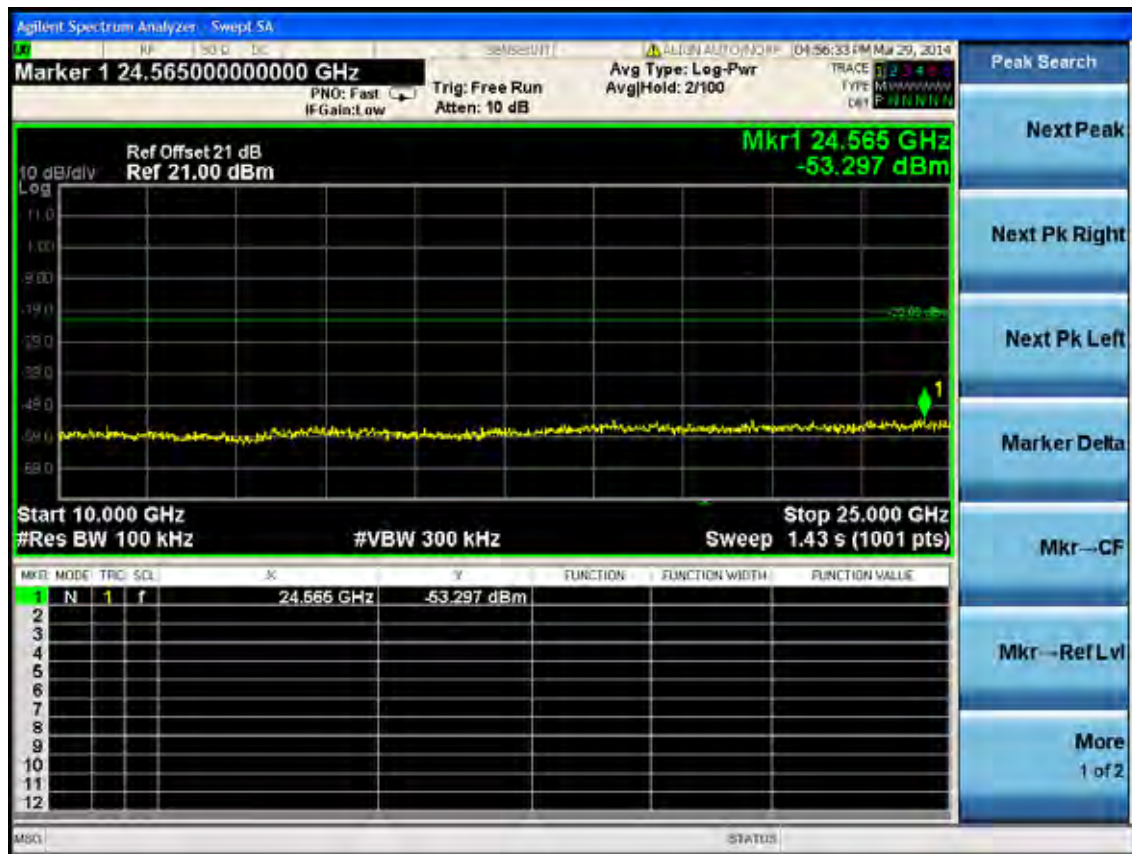
Test CH6: 2437MHz





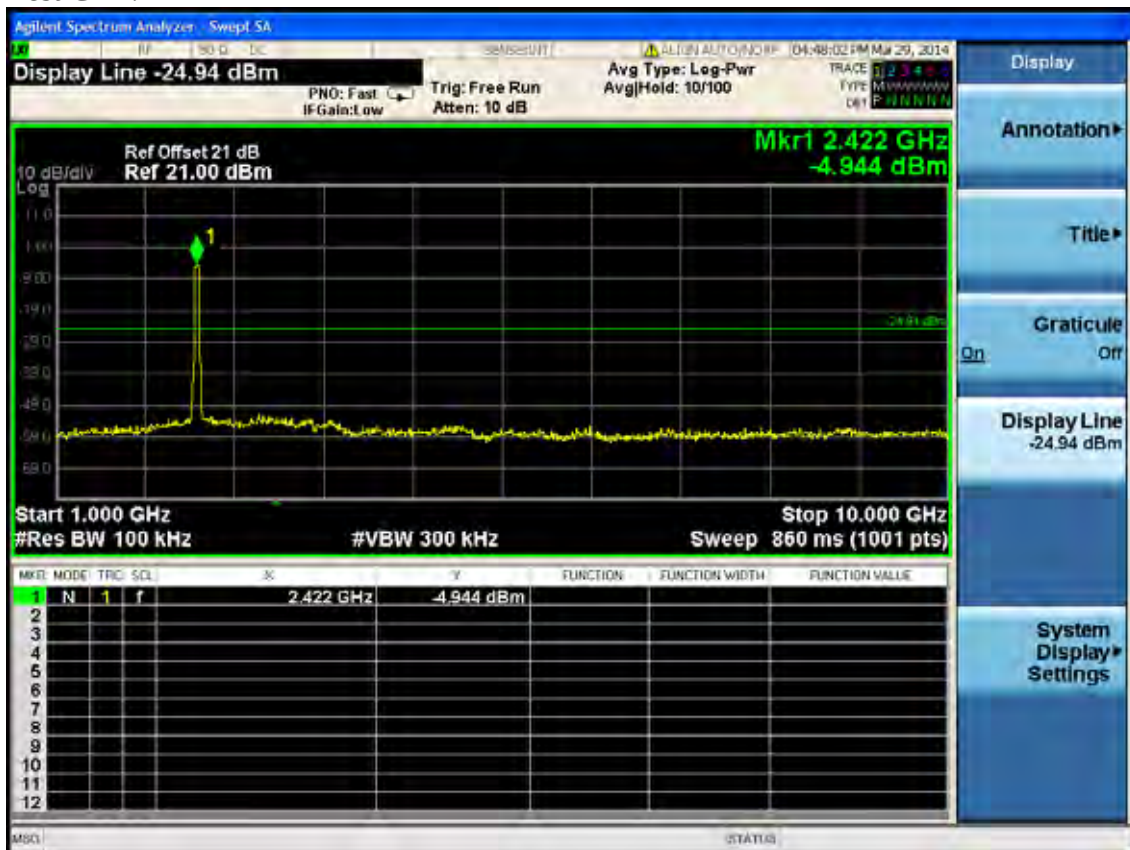
Test CH11: 2462MHz

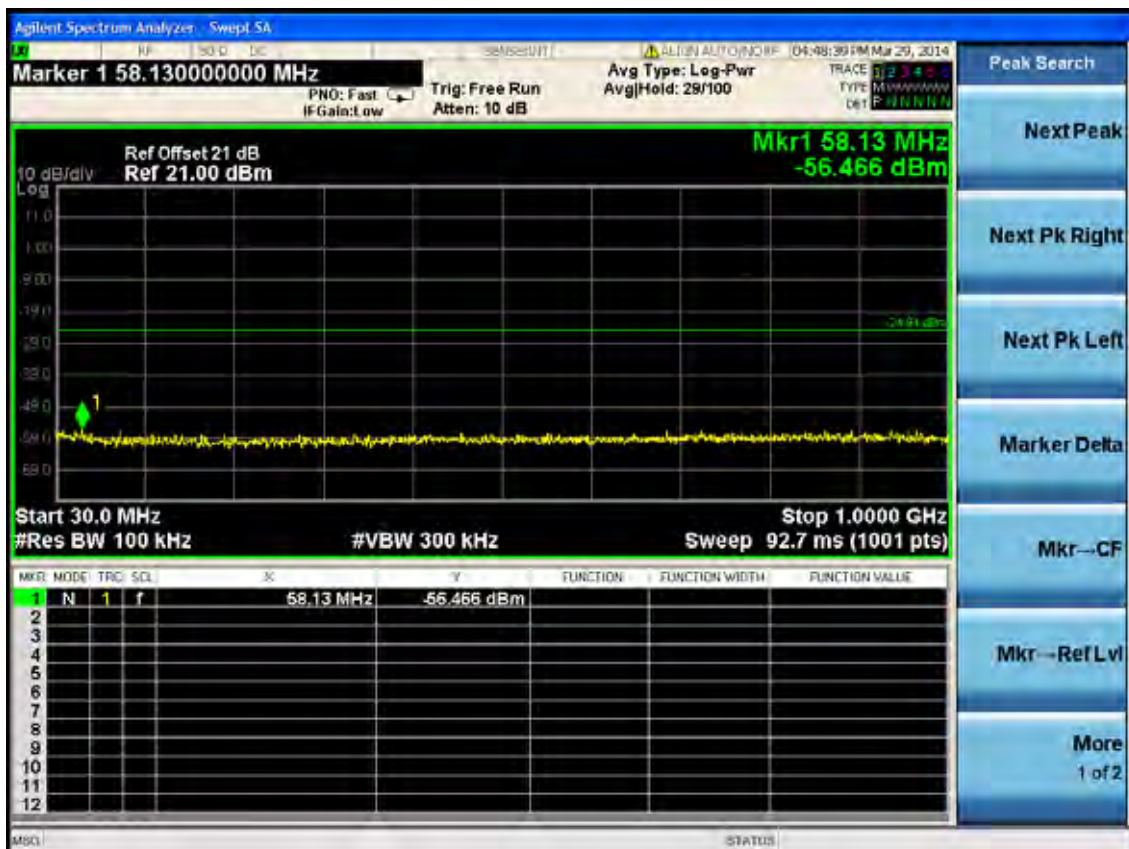
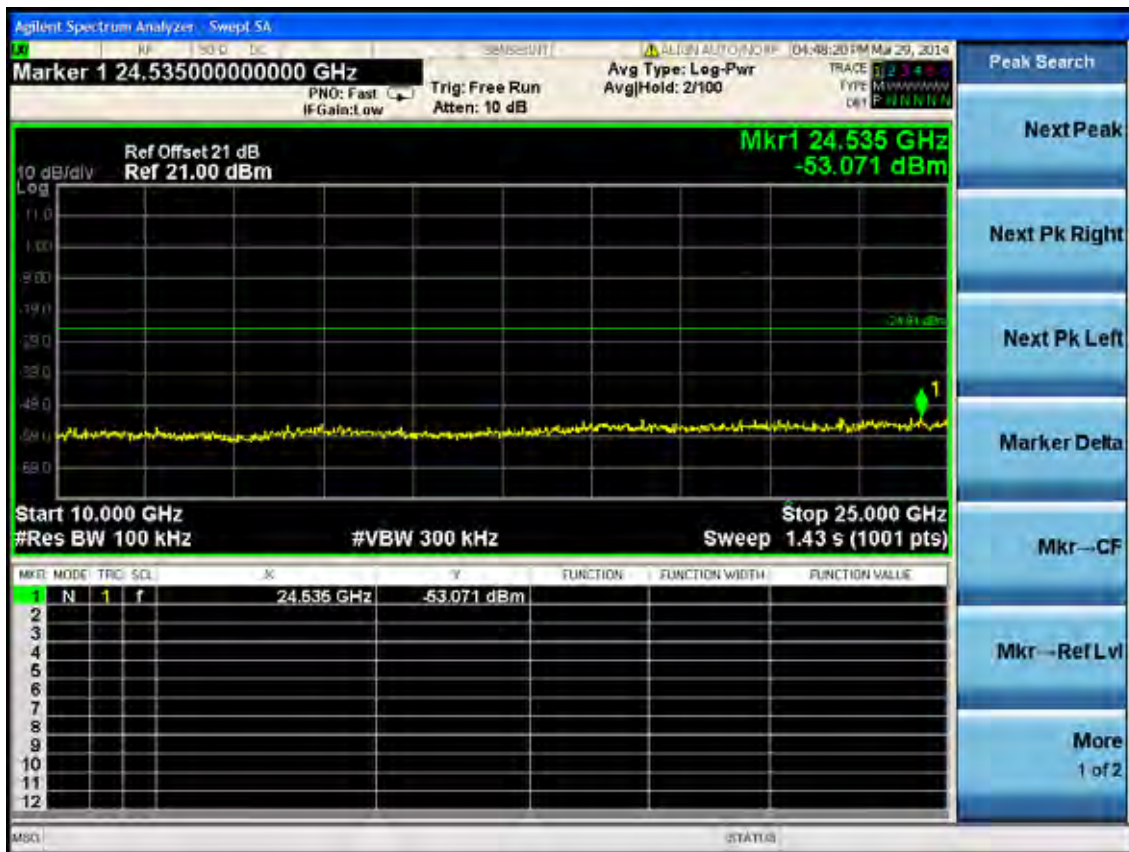






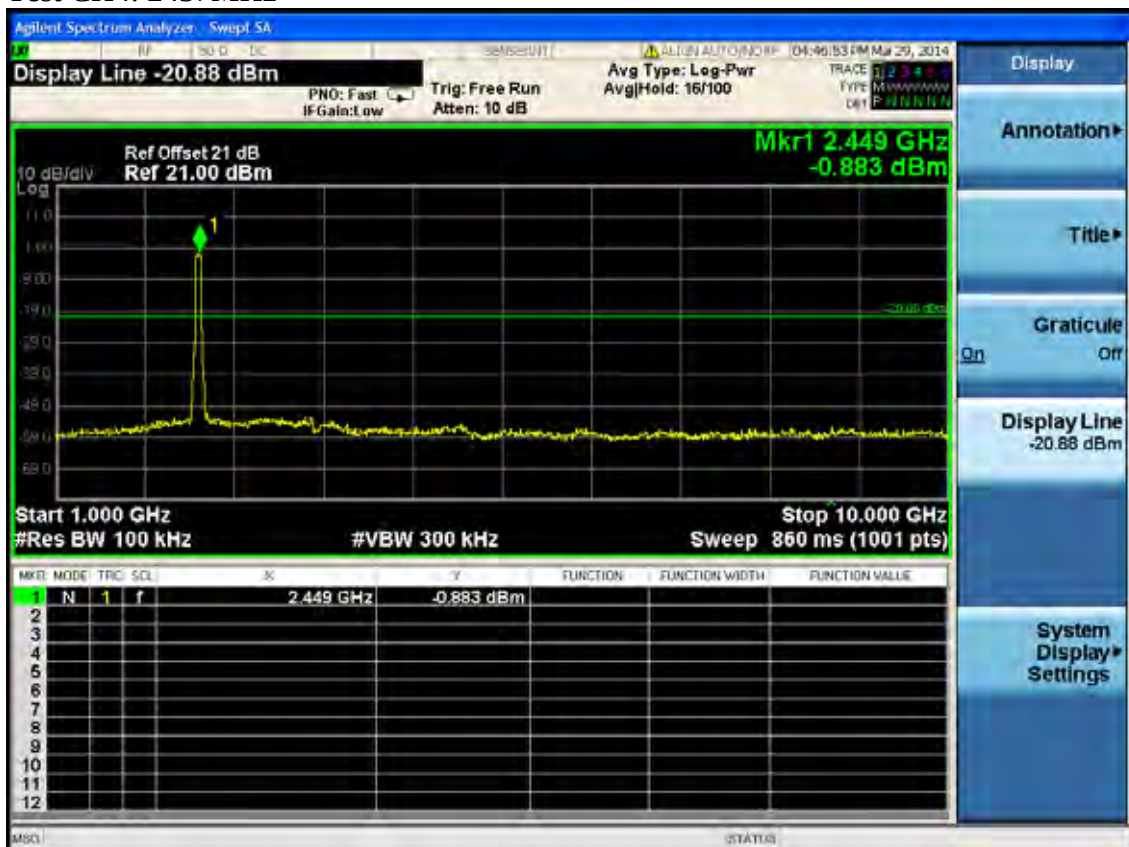
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz

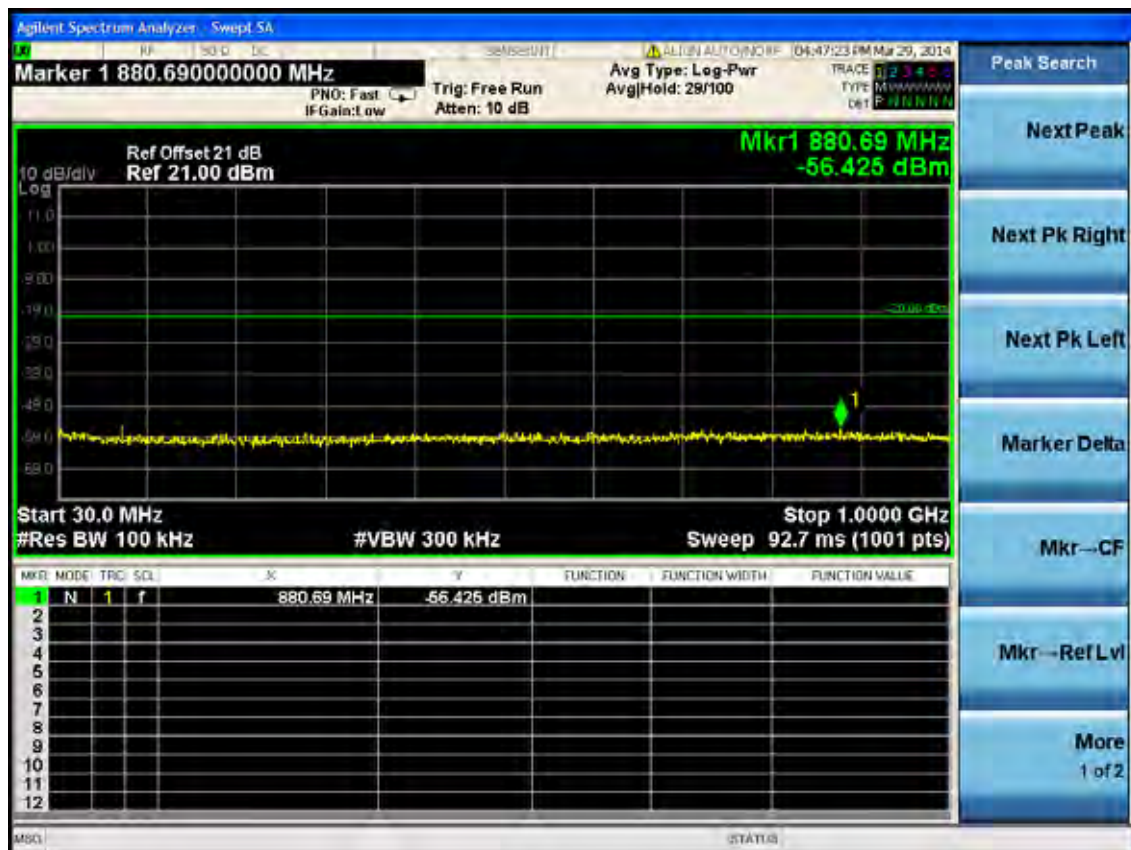
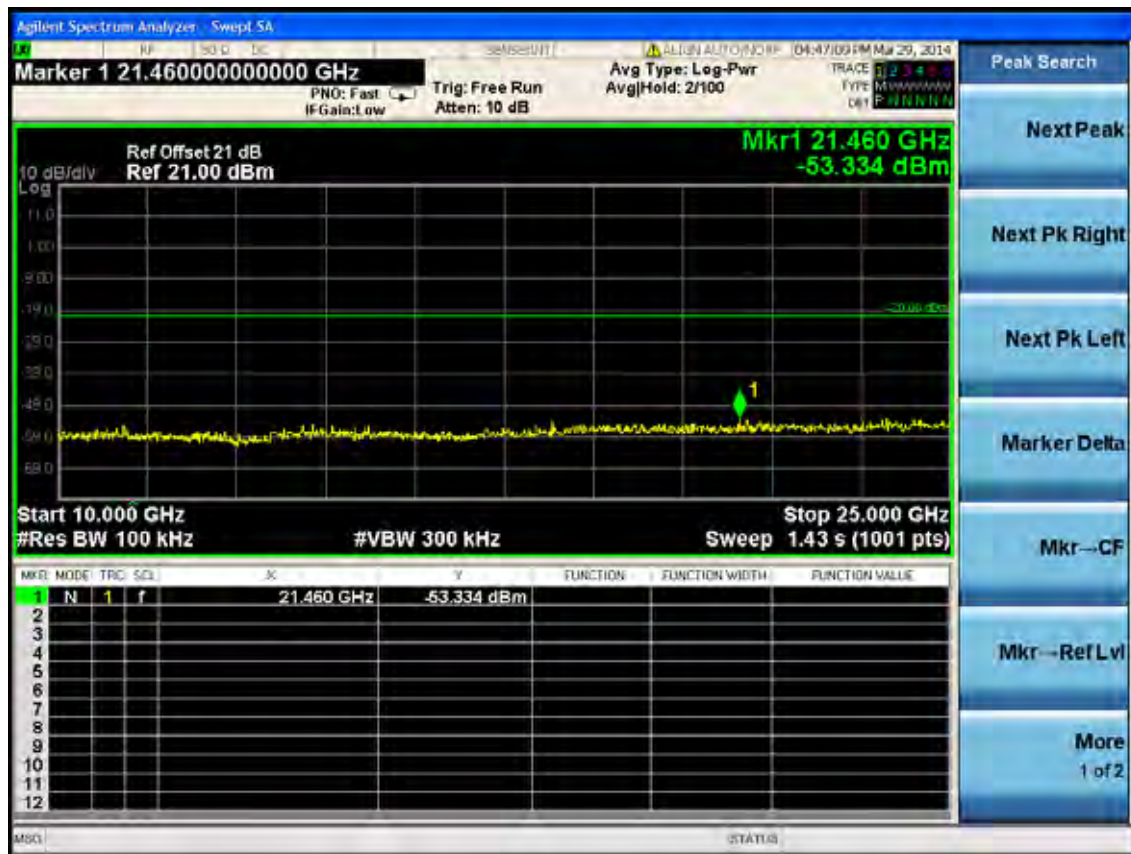




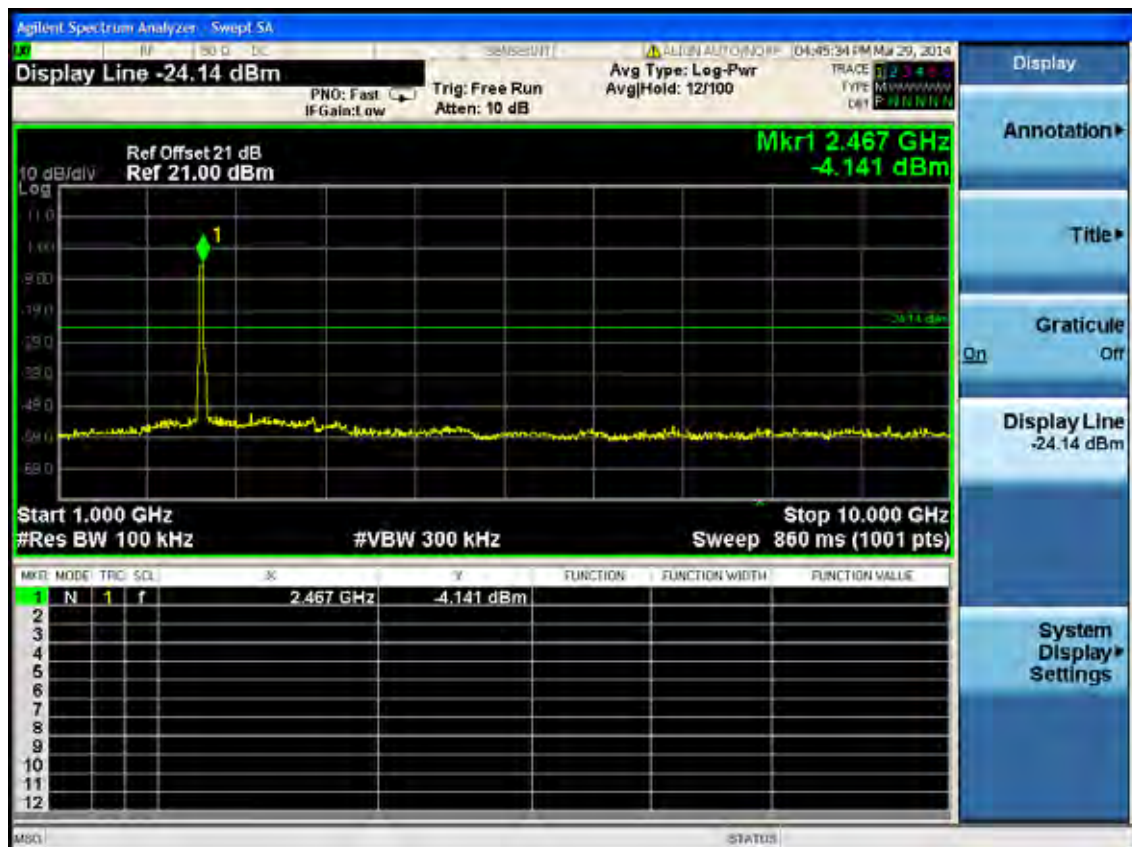


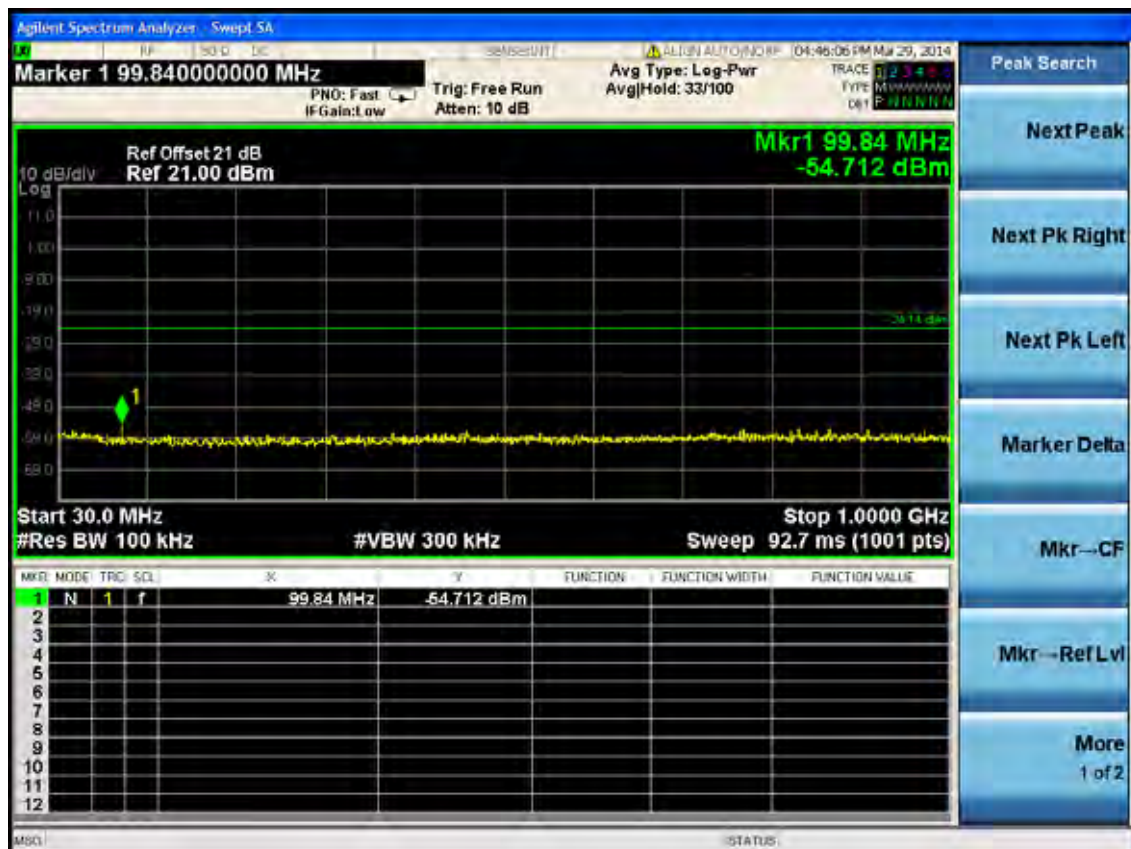
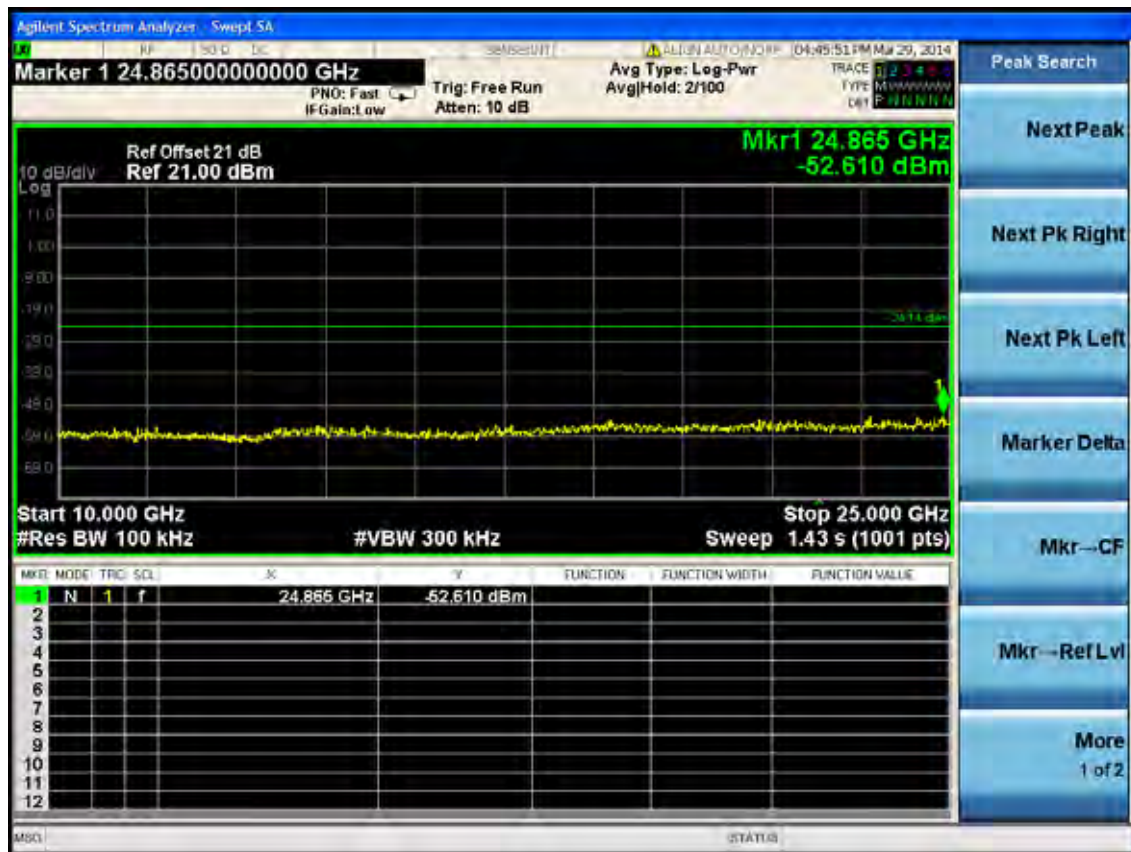
Test CH4: 2437MHz





Test CH7: 2452MHz



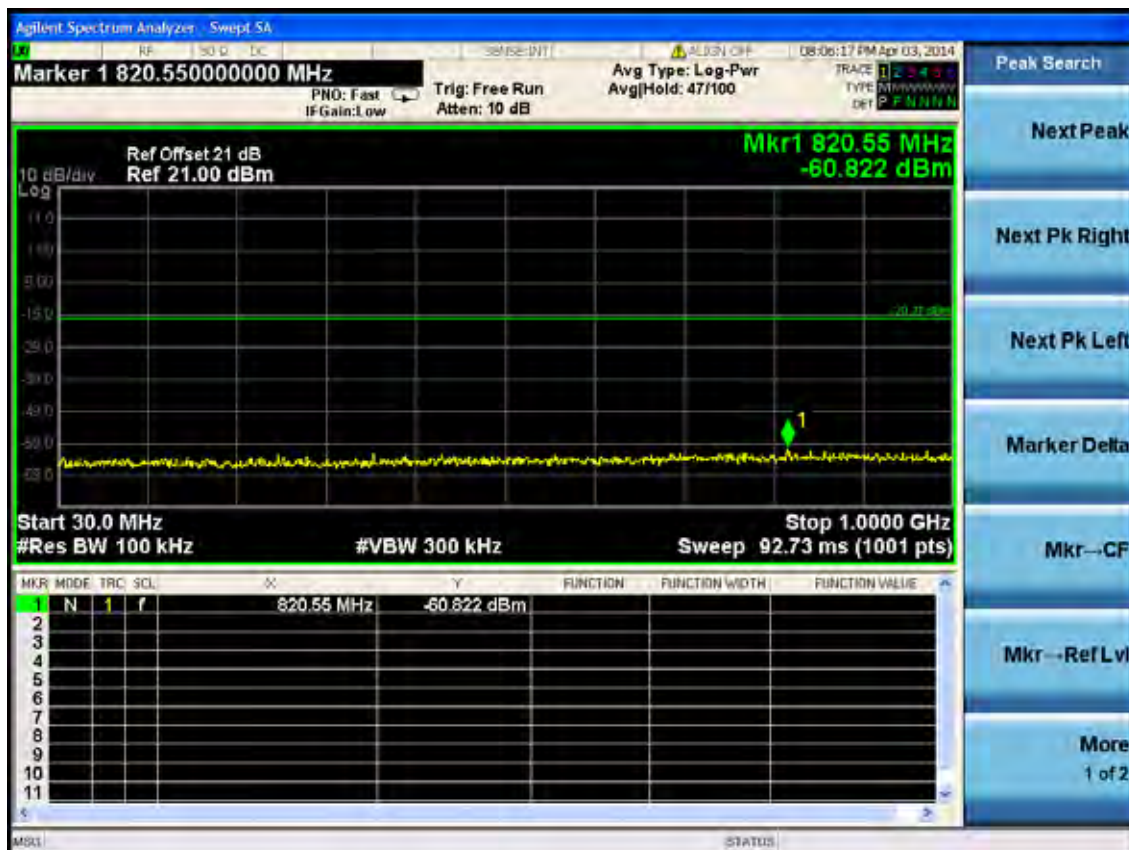
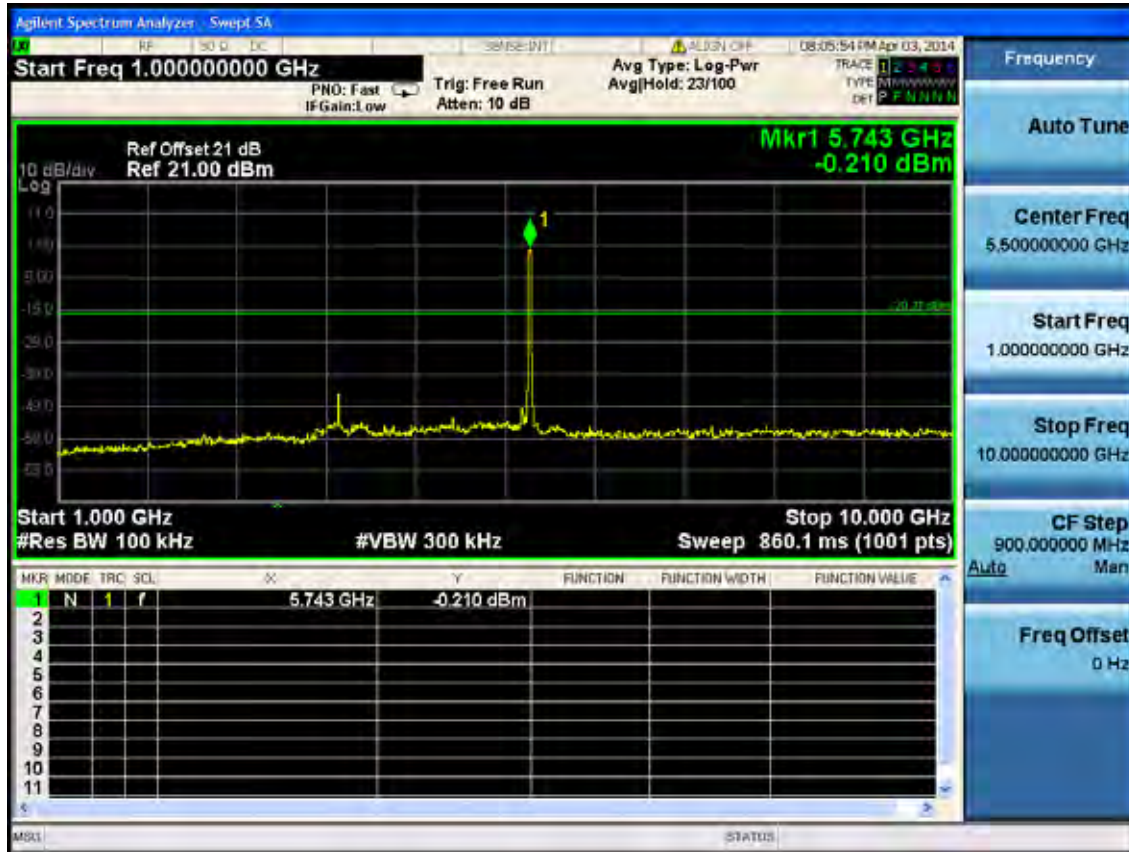


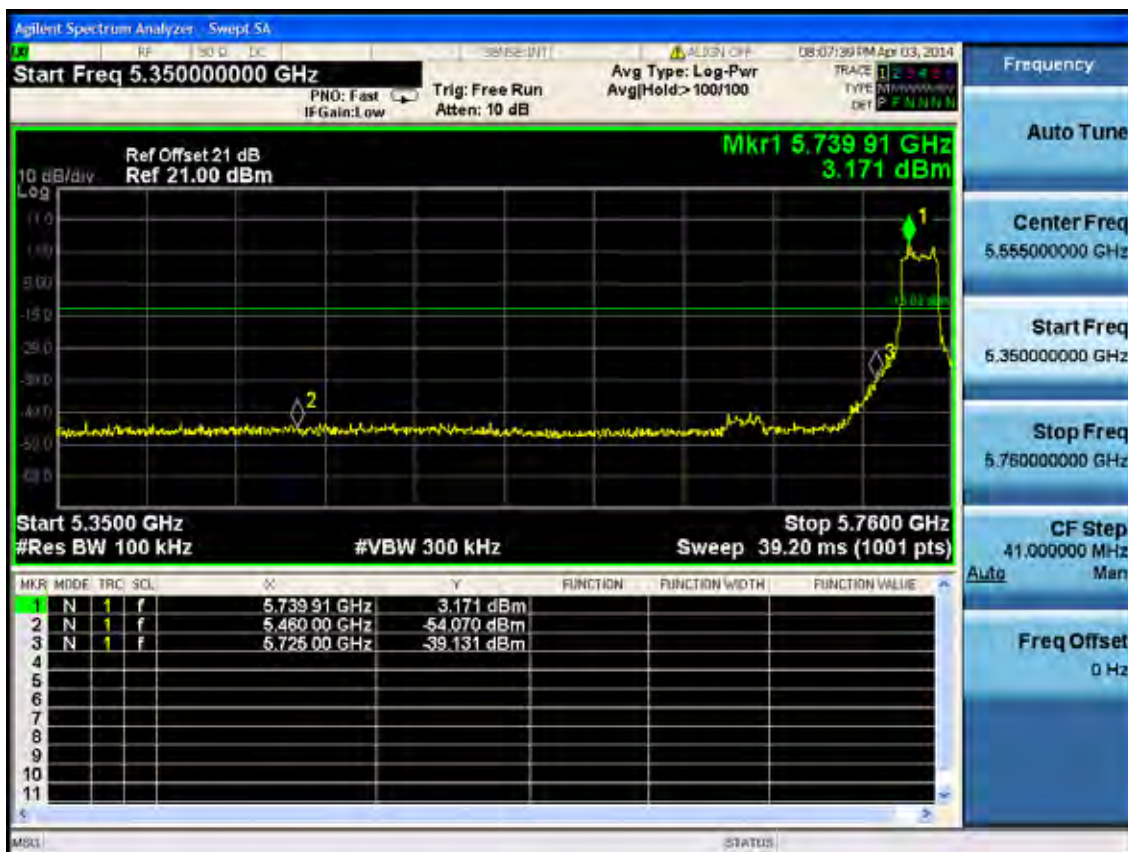
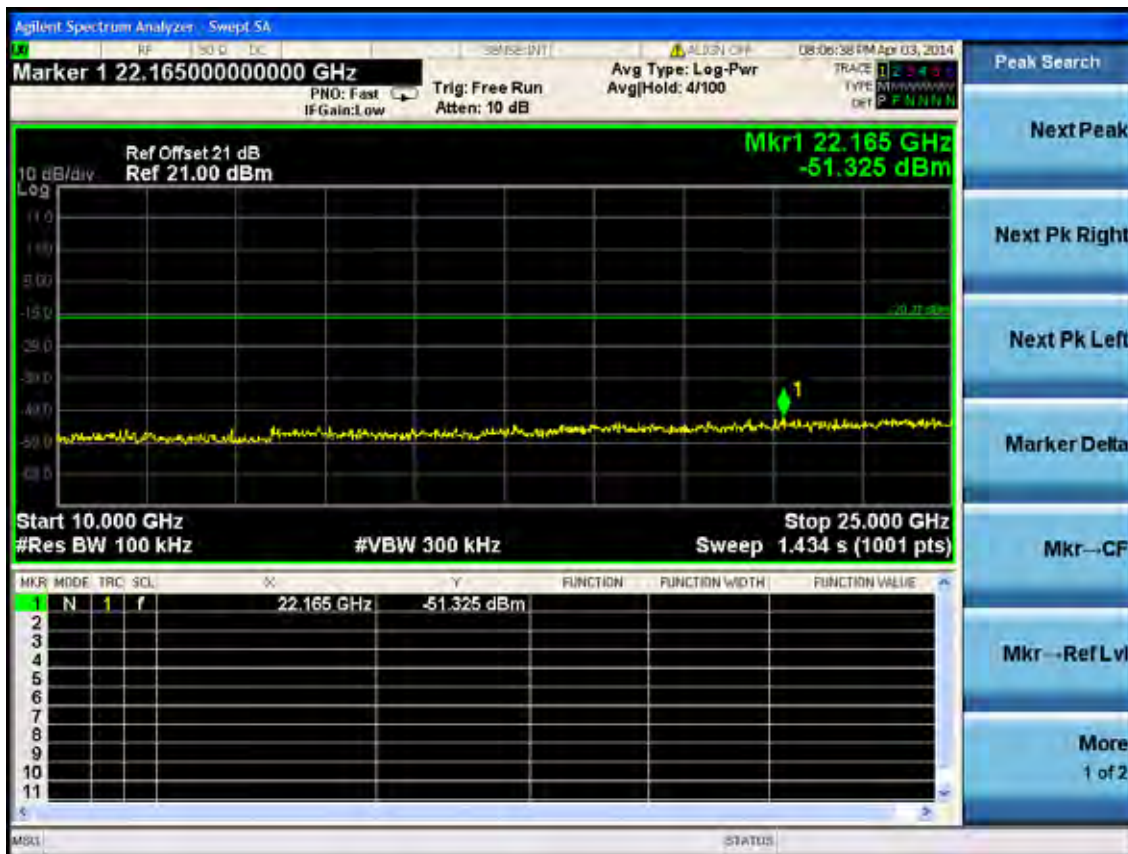
5.8G:

Chain 0:

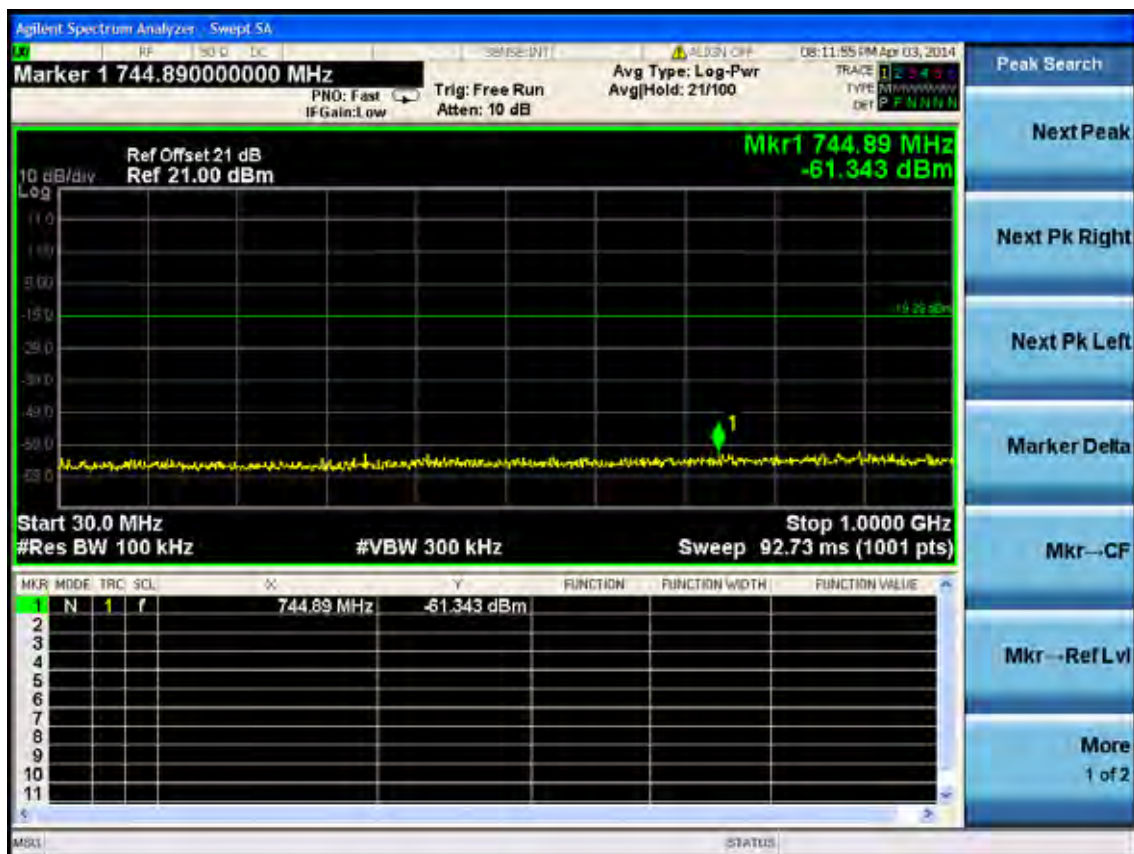
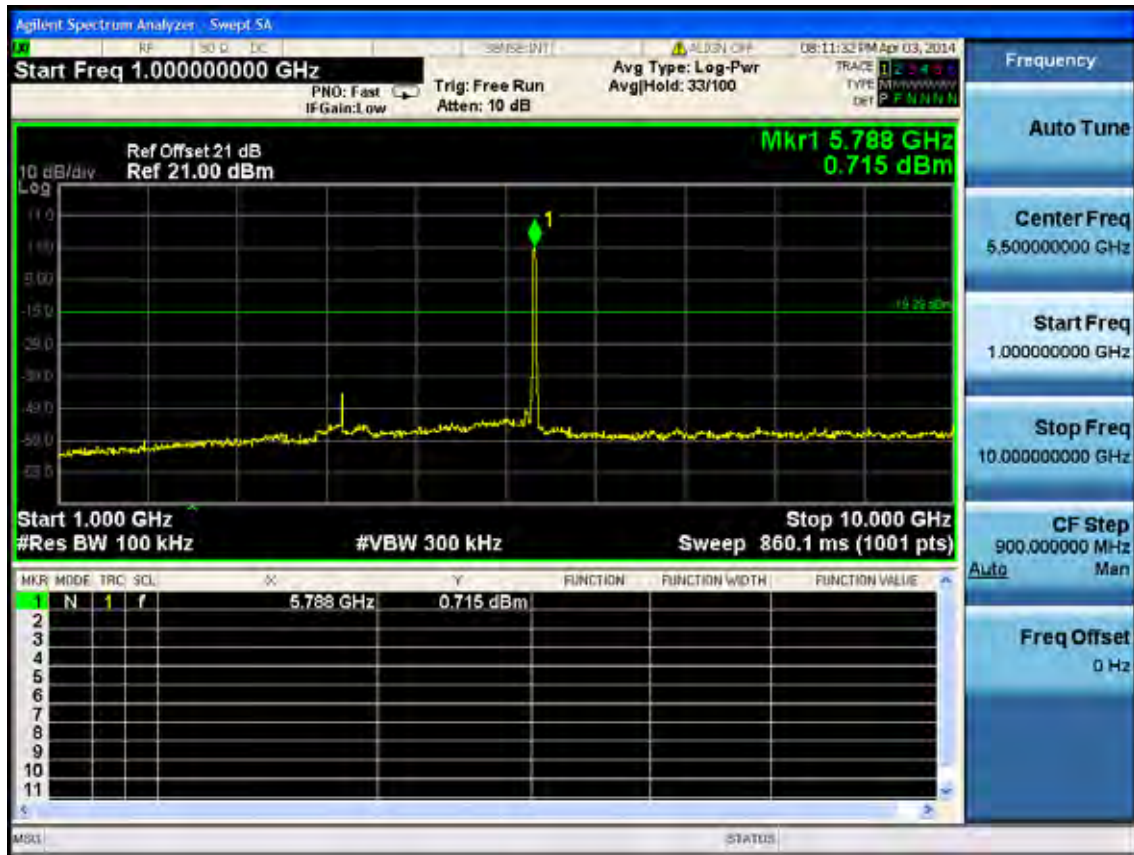
Test Mode: IEEE 802.11a TX

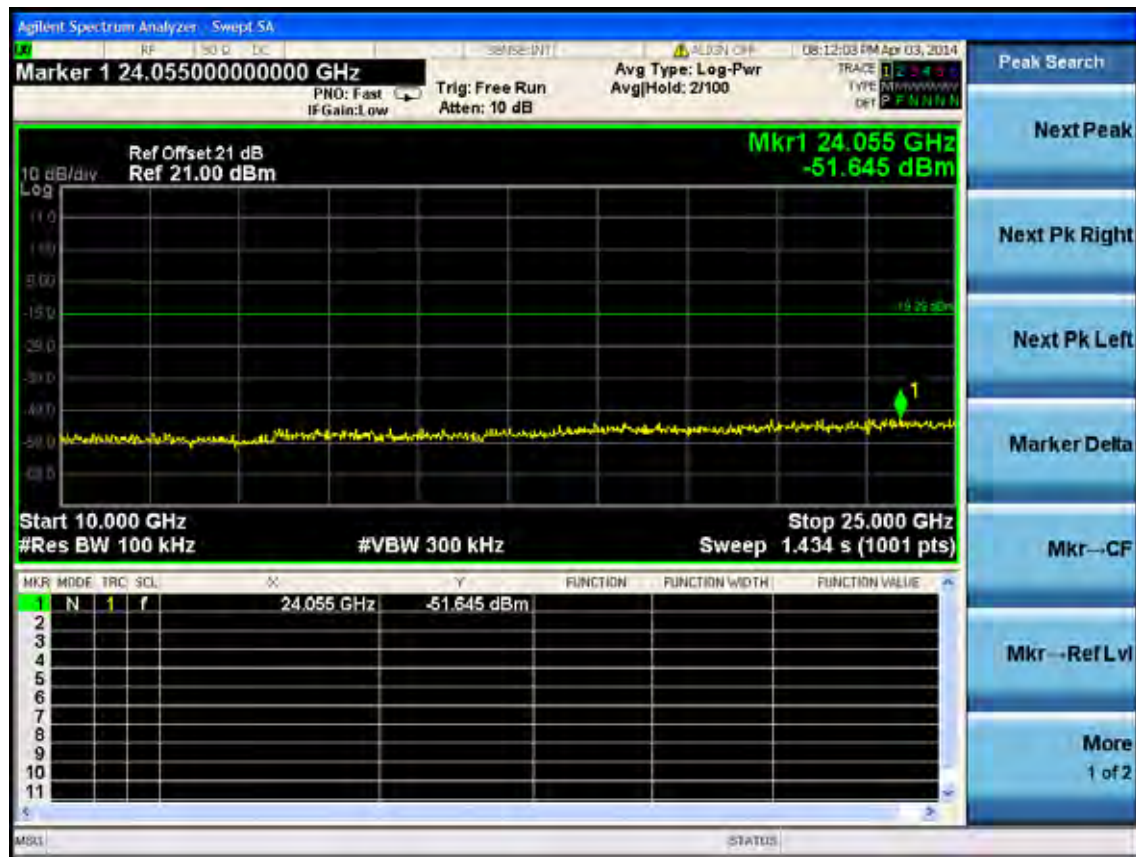
Test CH149: 5745MHz



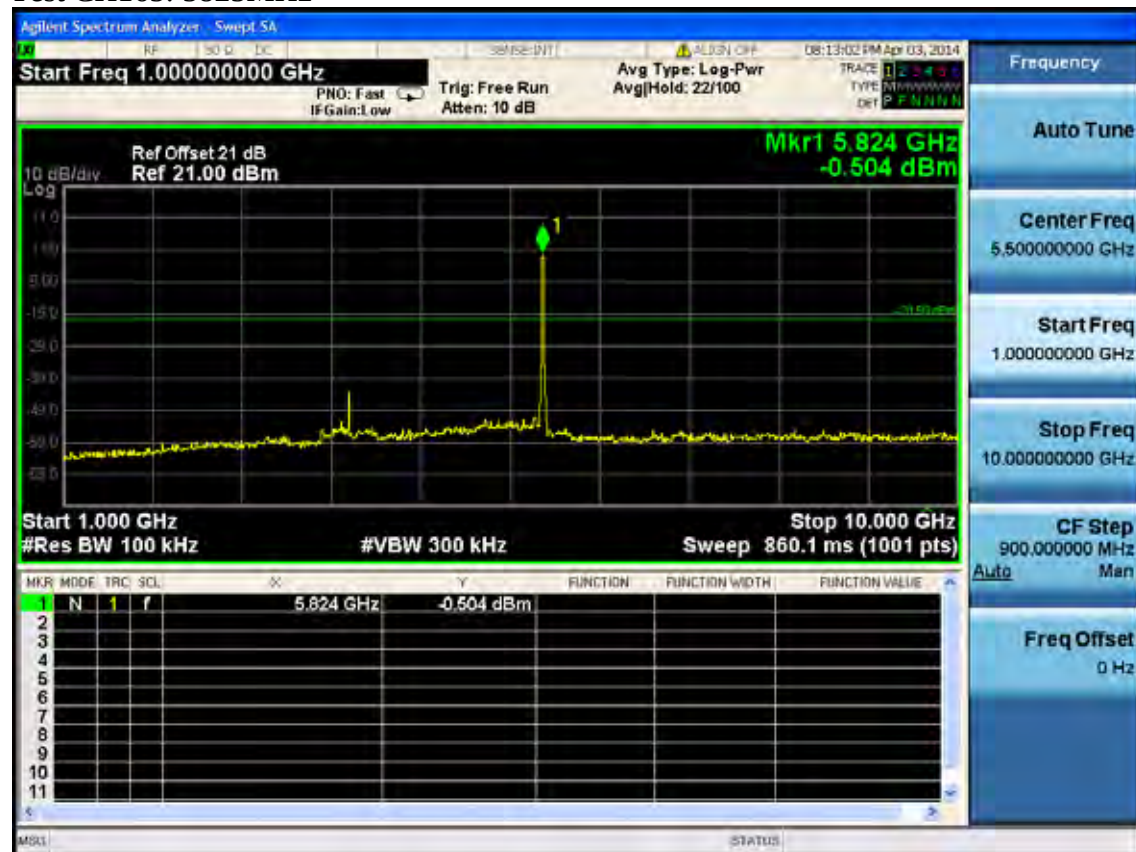


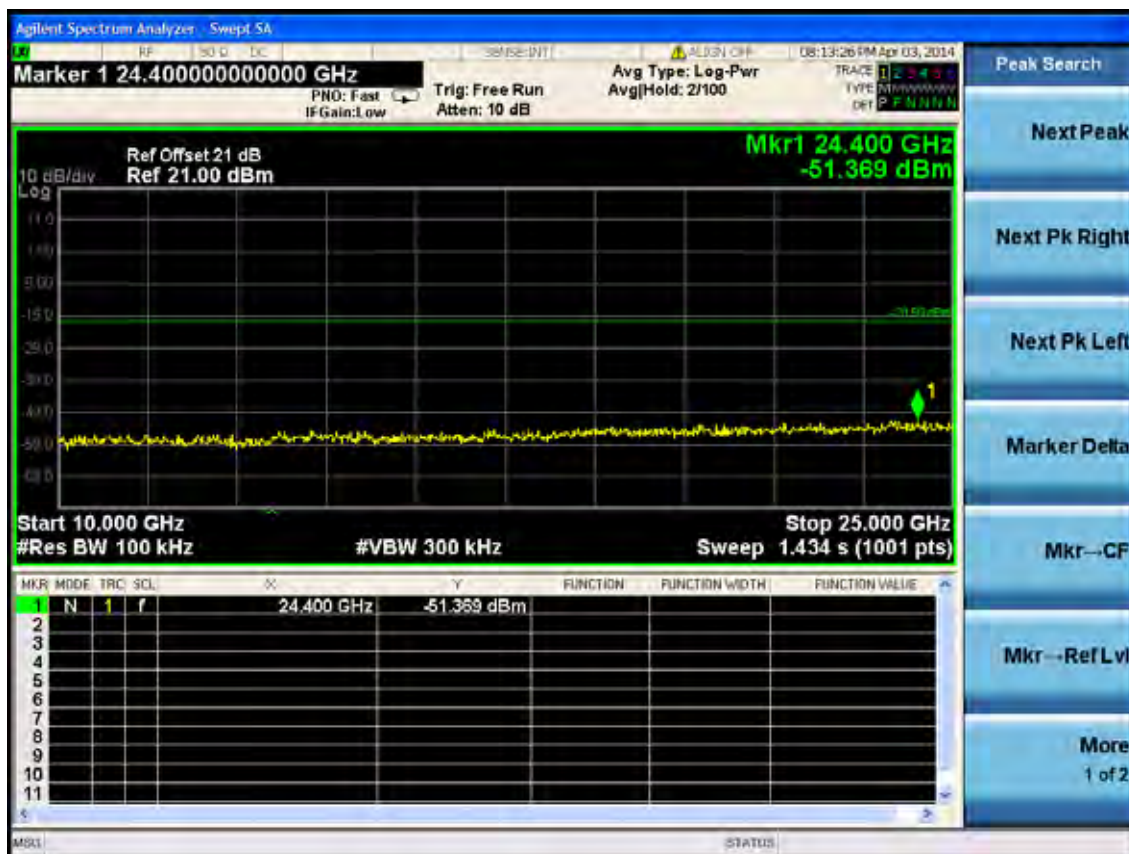
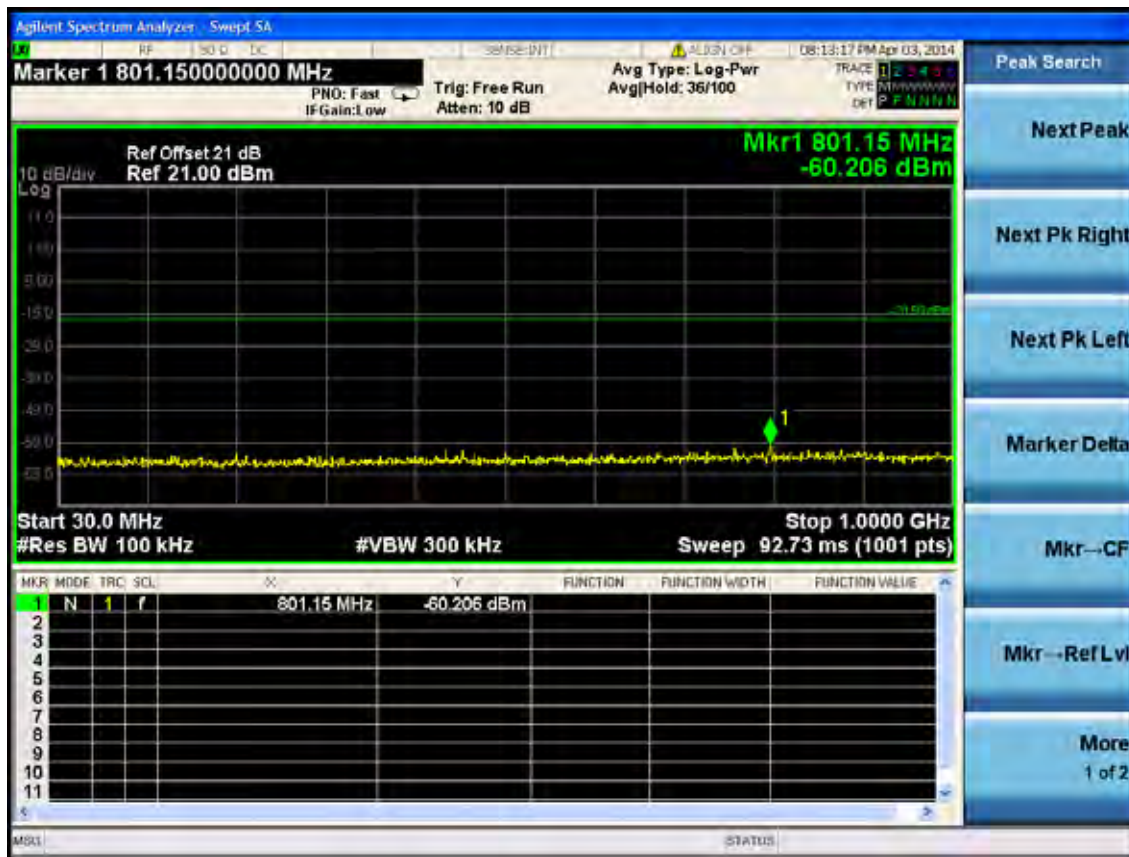
Test CH157: 5785MHz

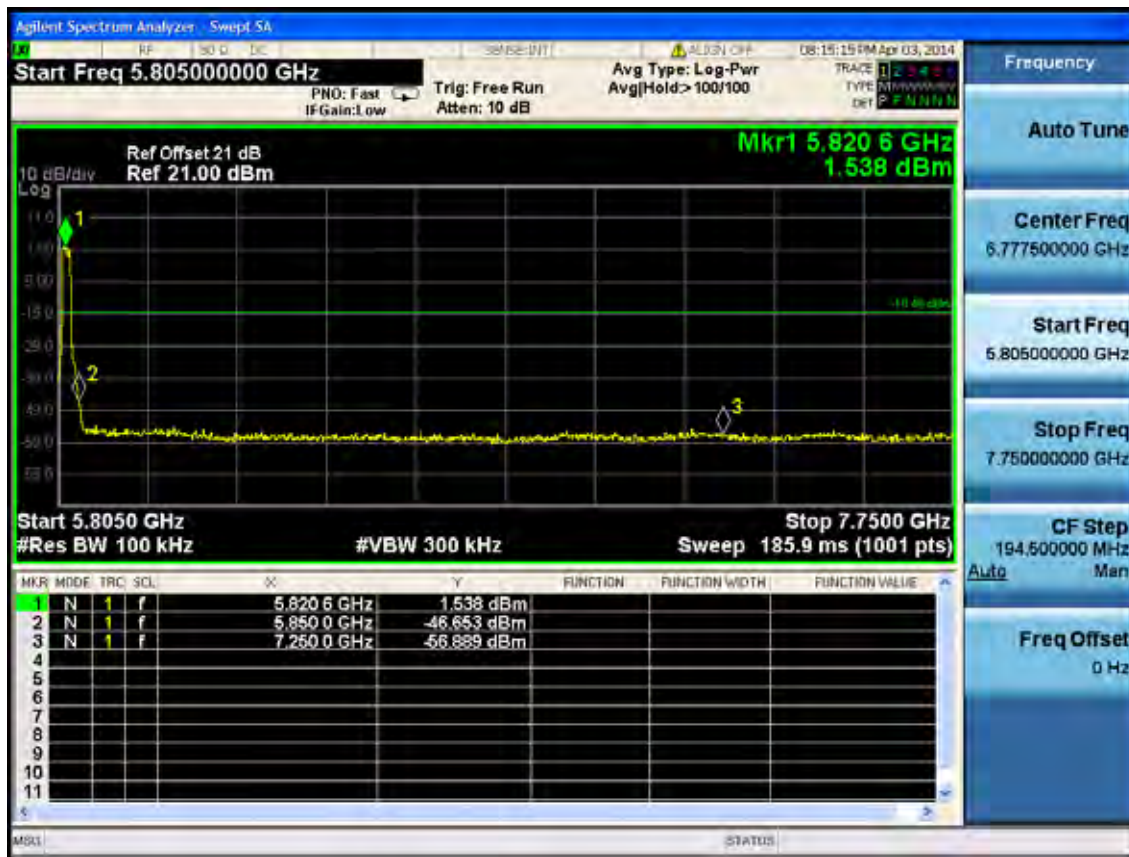




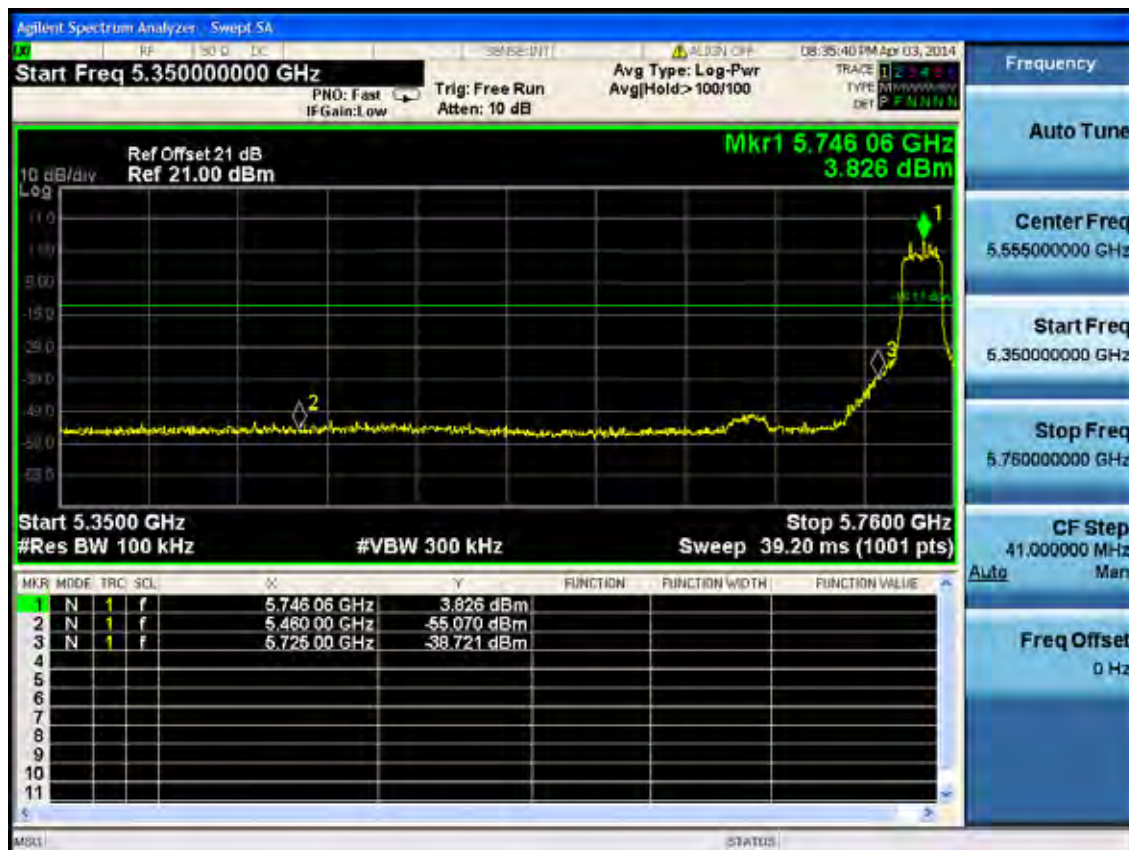
Test CH165: 5825MHz

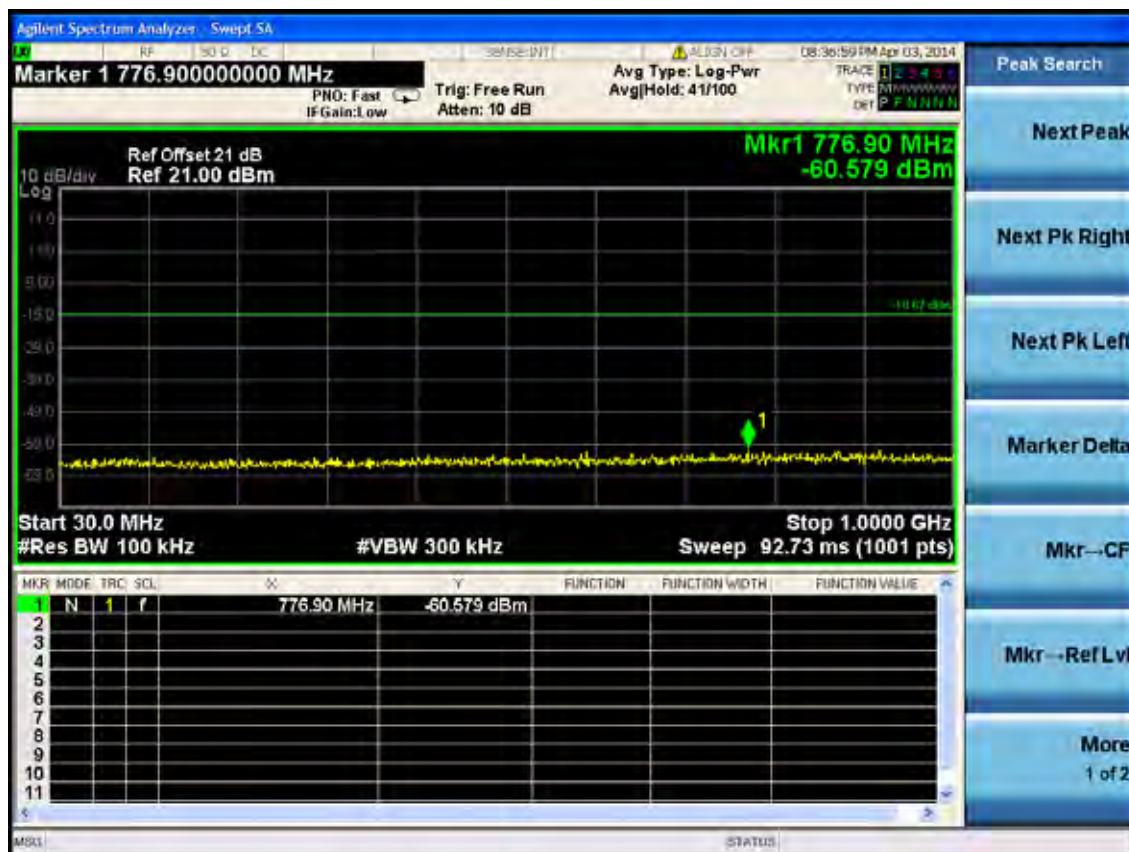
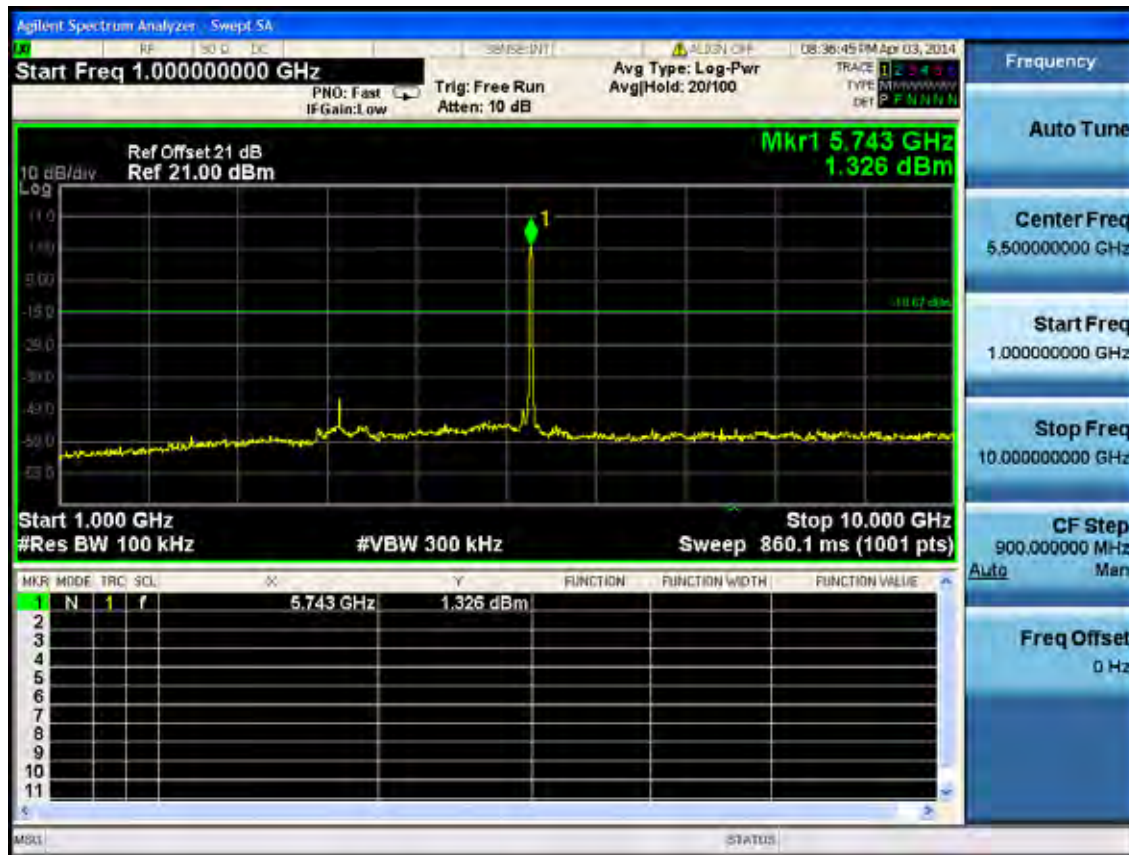


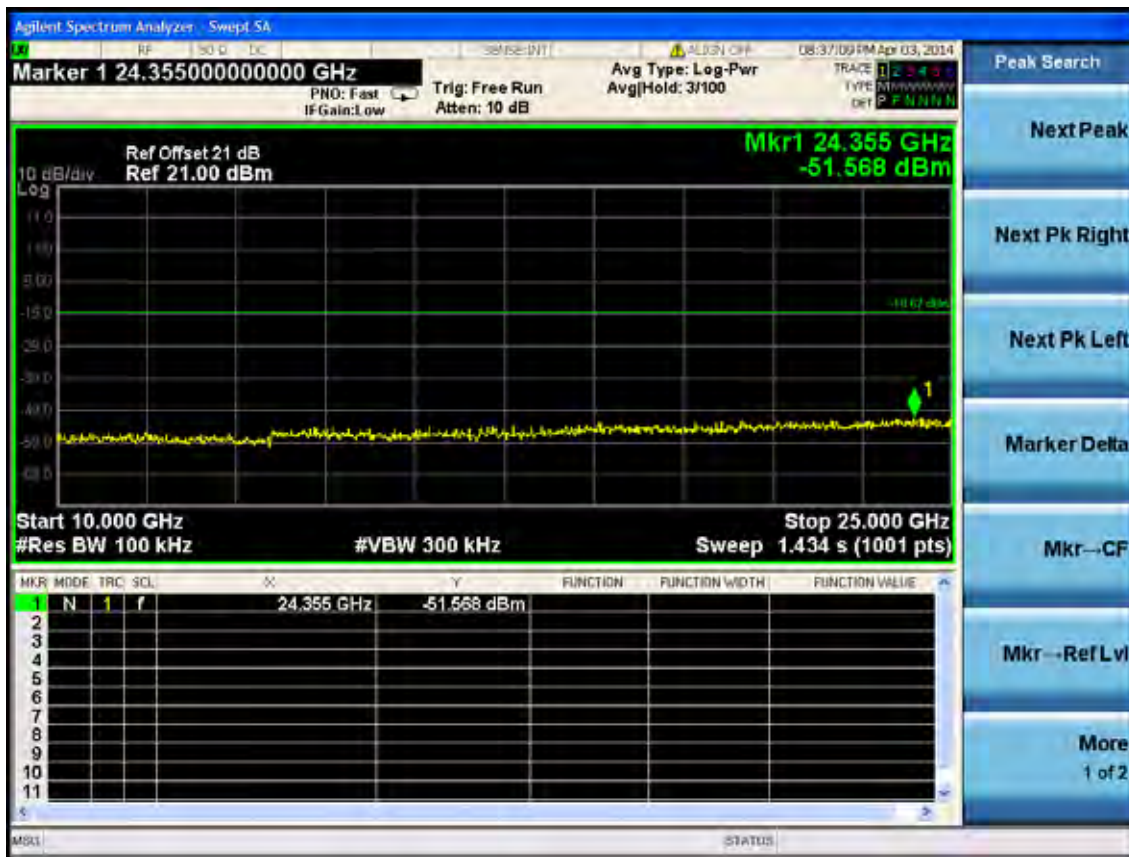




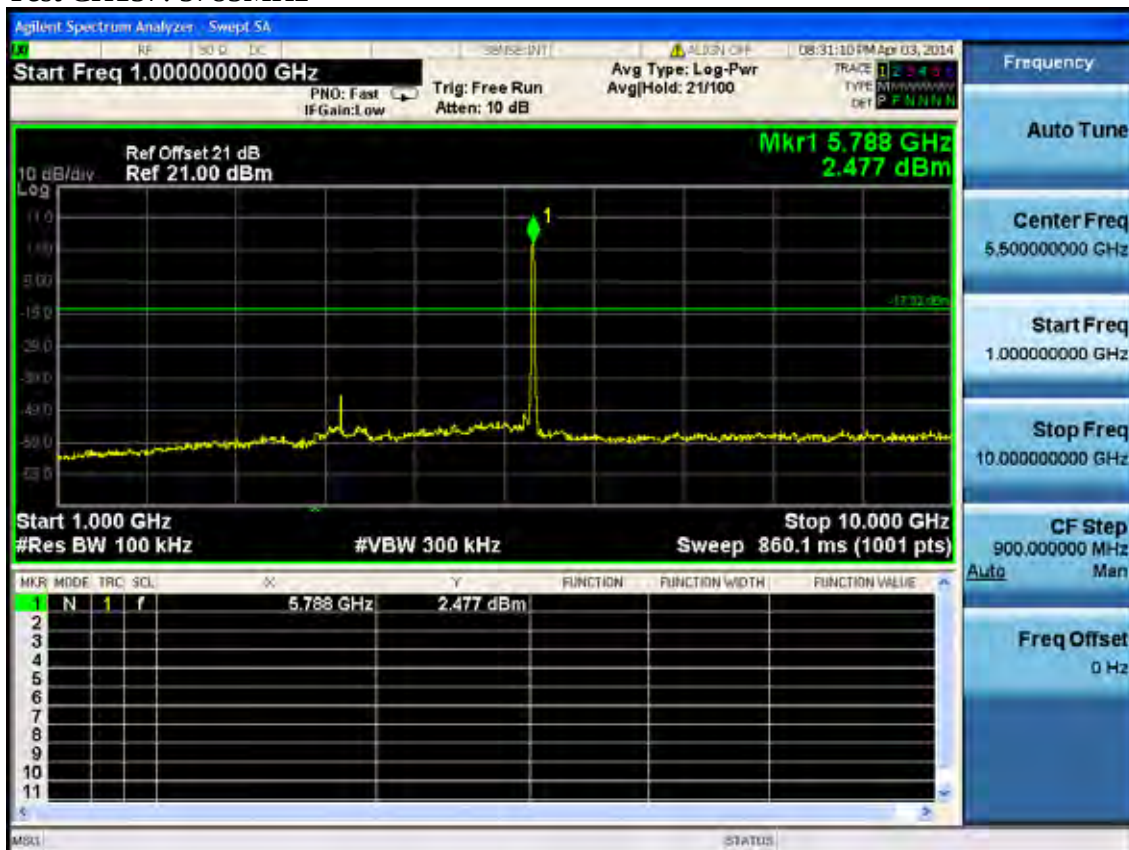
Test Mode: IEEE 802.11n HT20 TX
Test CH149: 5745MHz

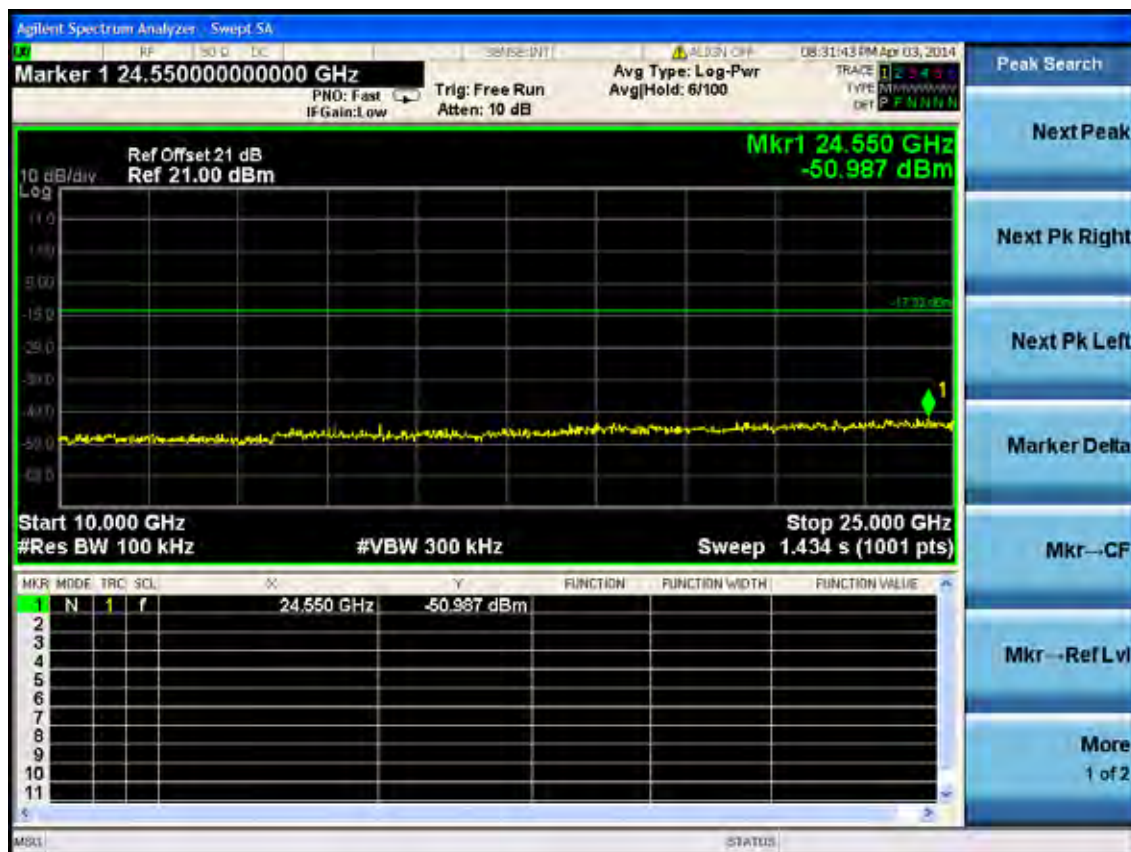
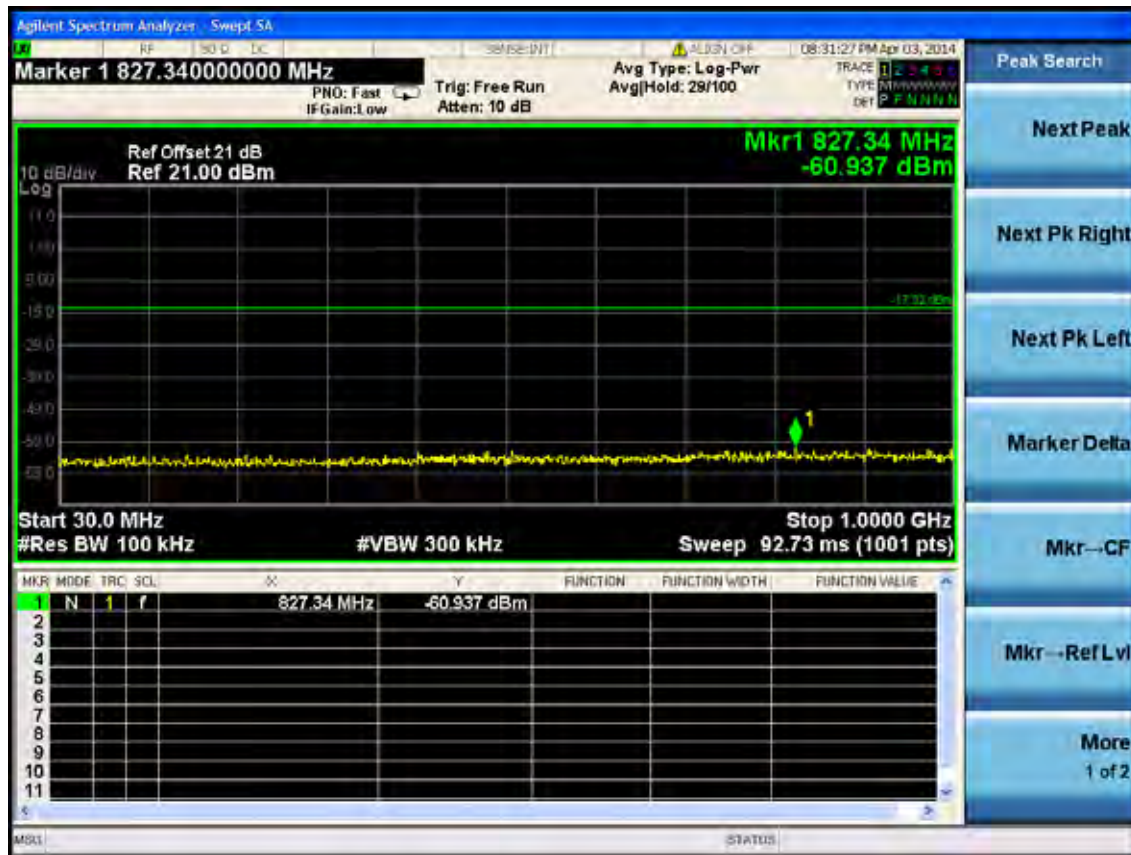




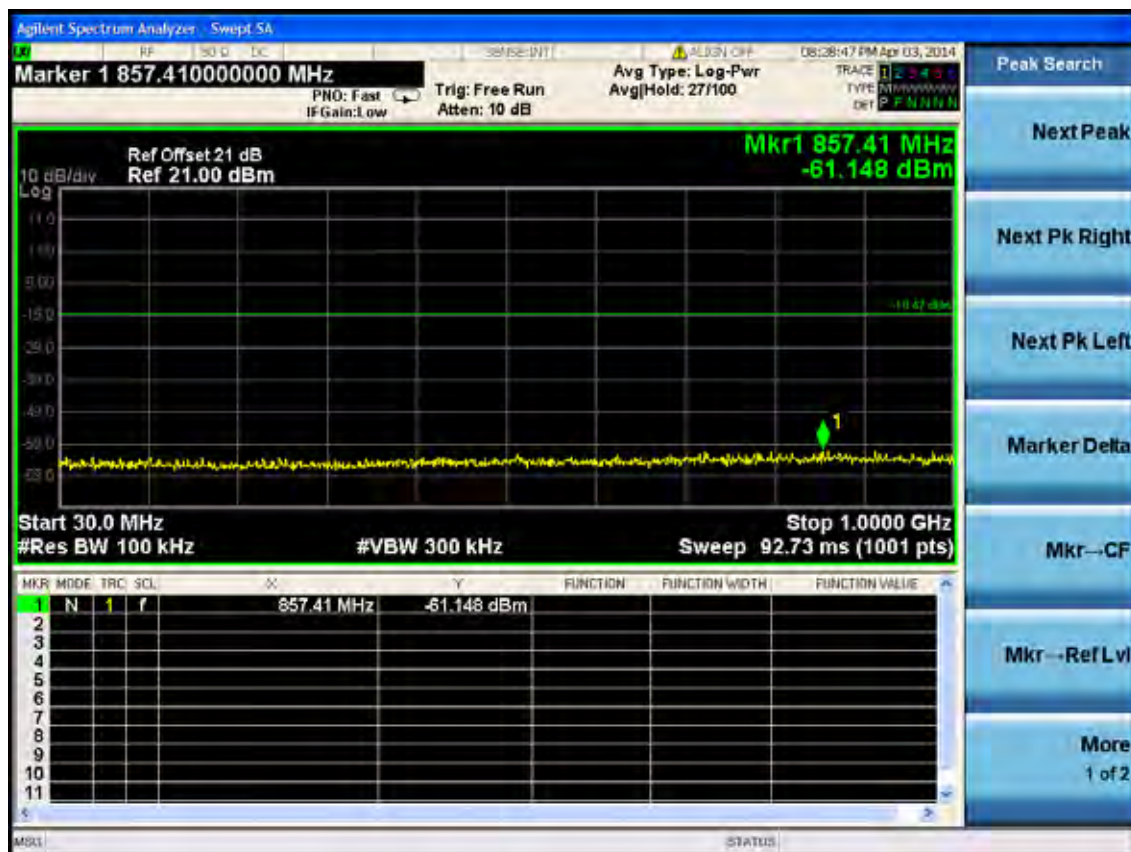
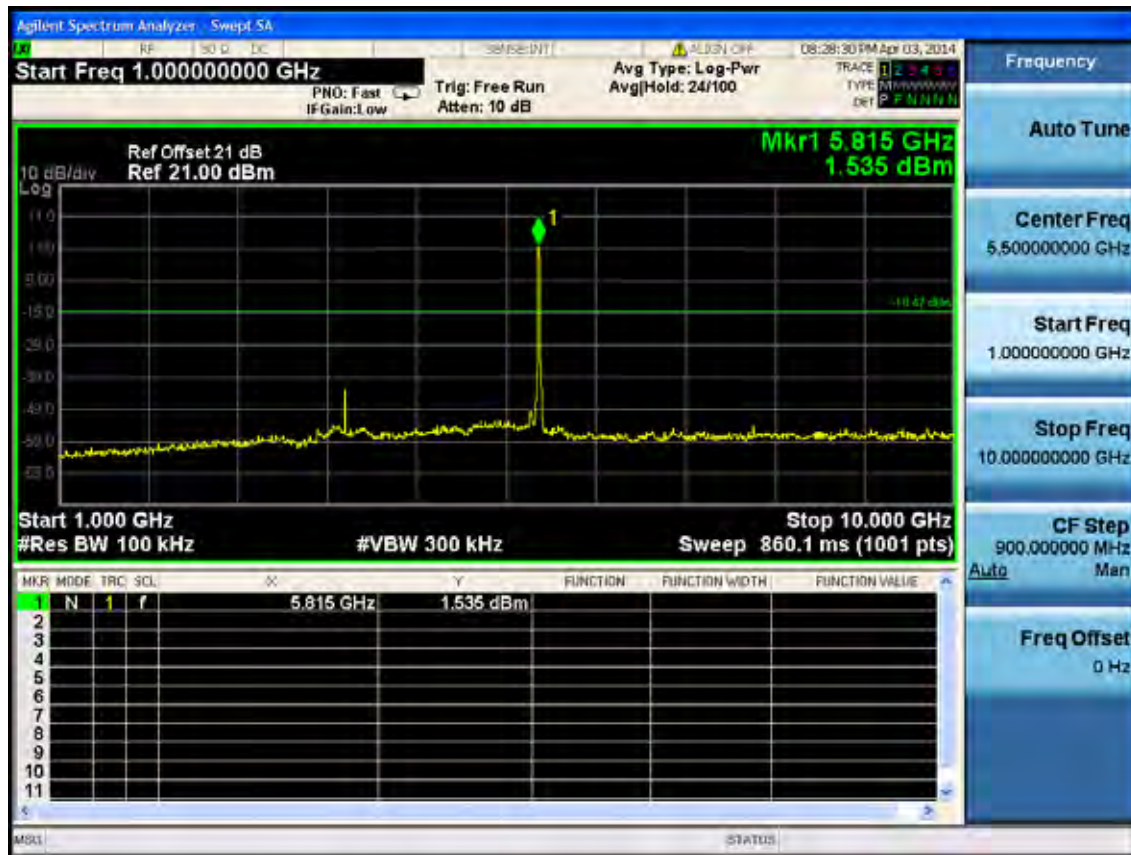


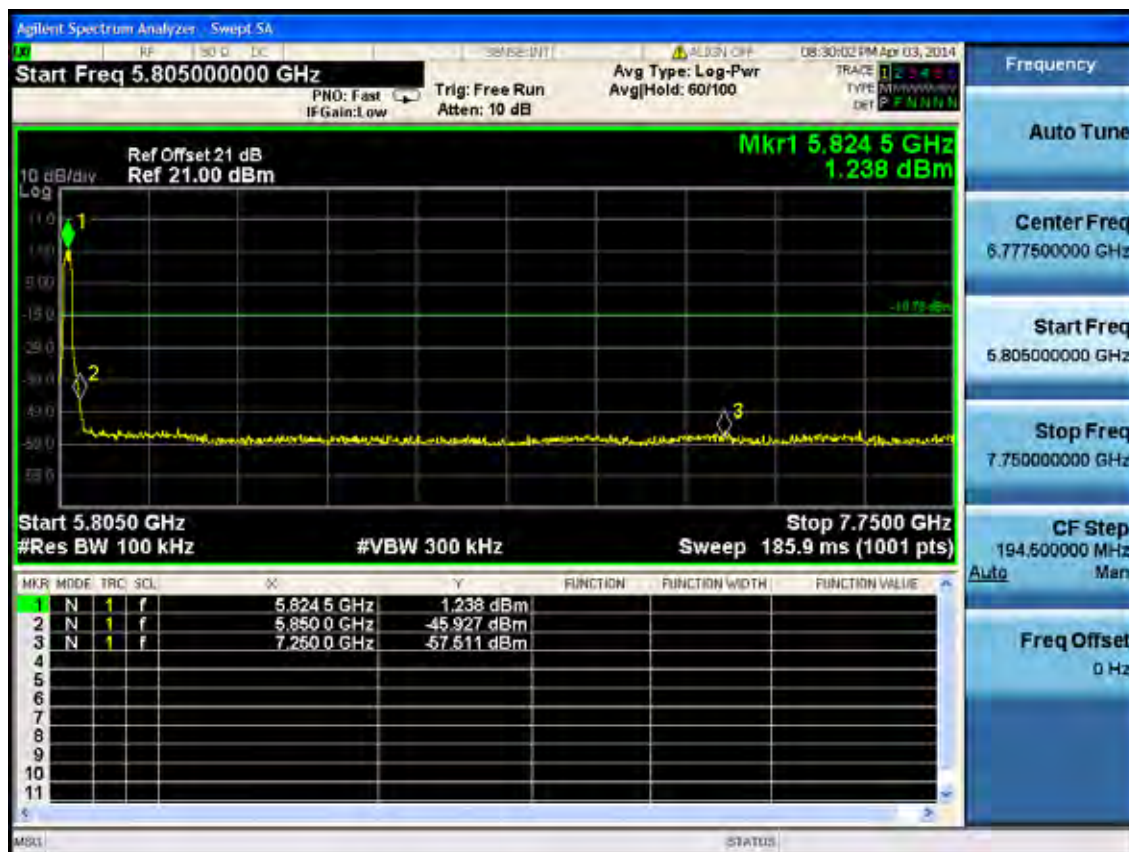
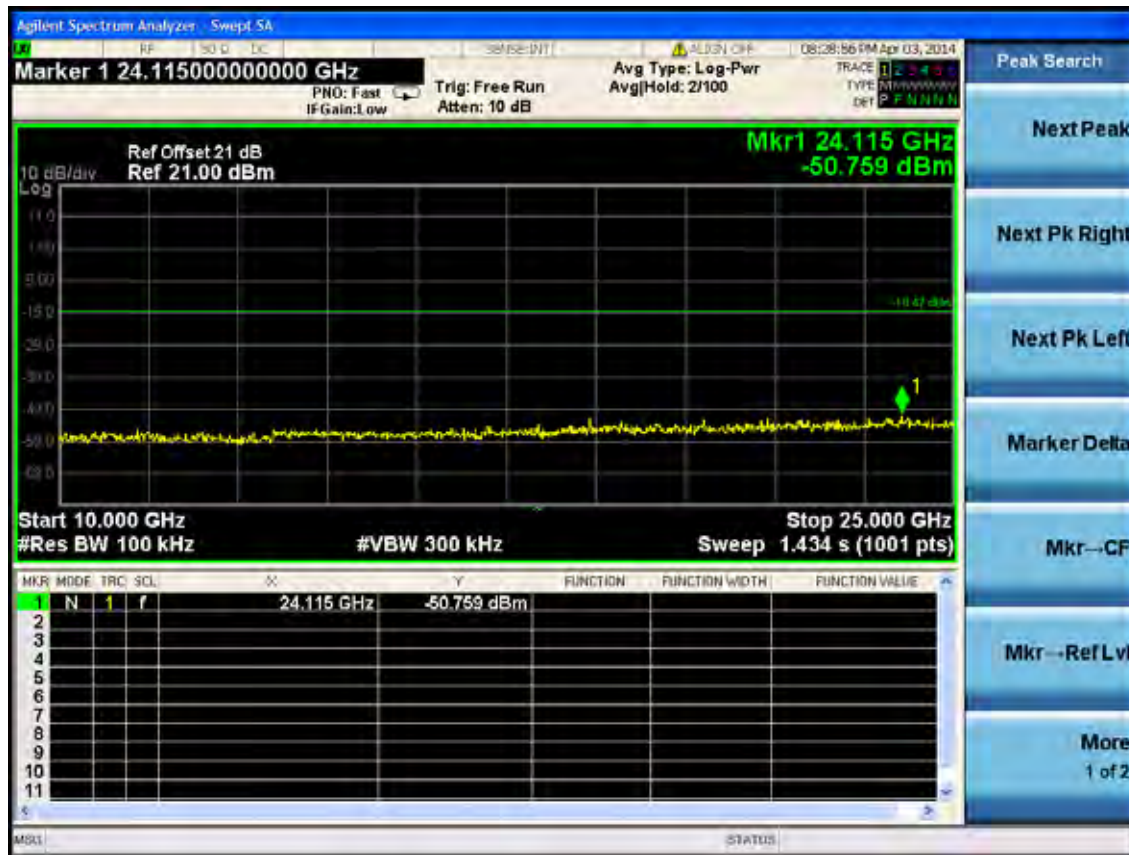
Test CH157: 5785MHz





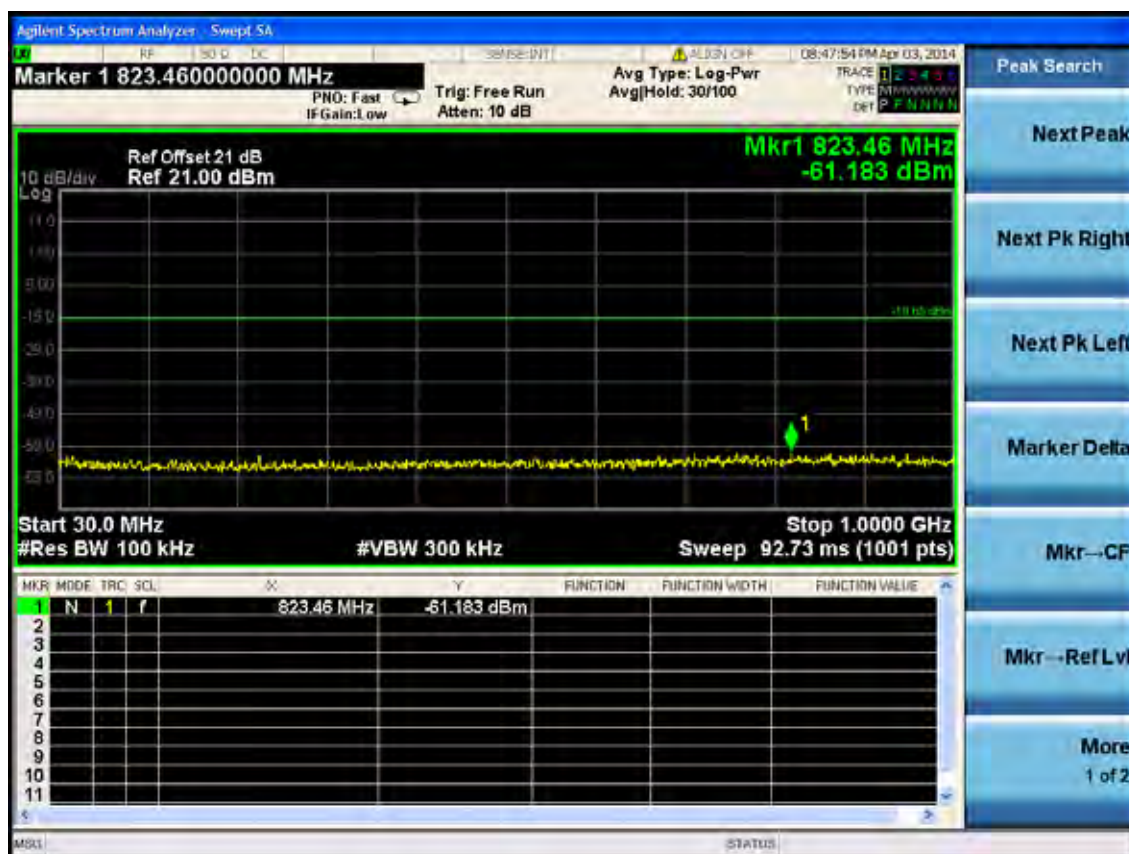
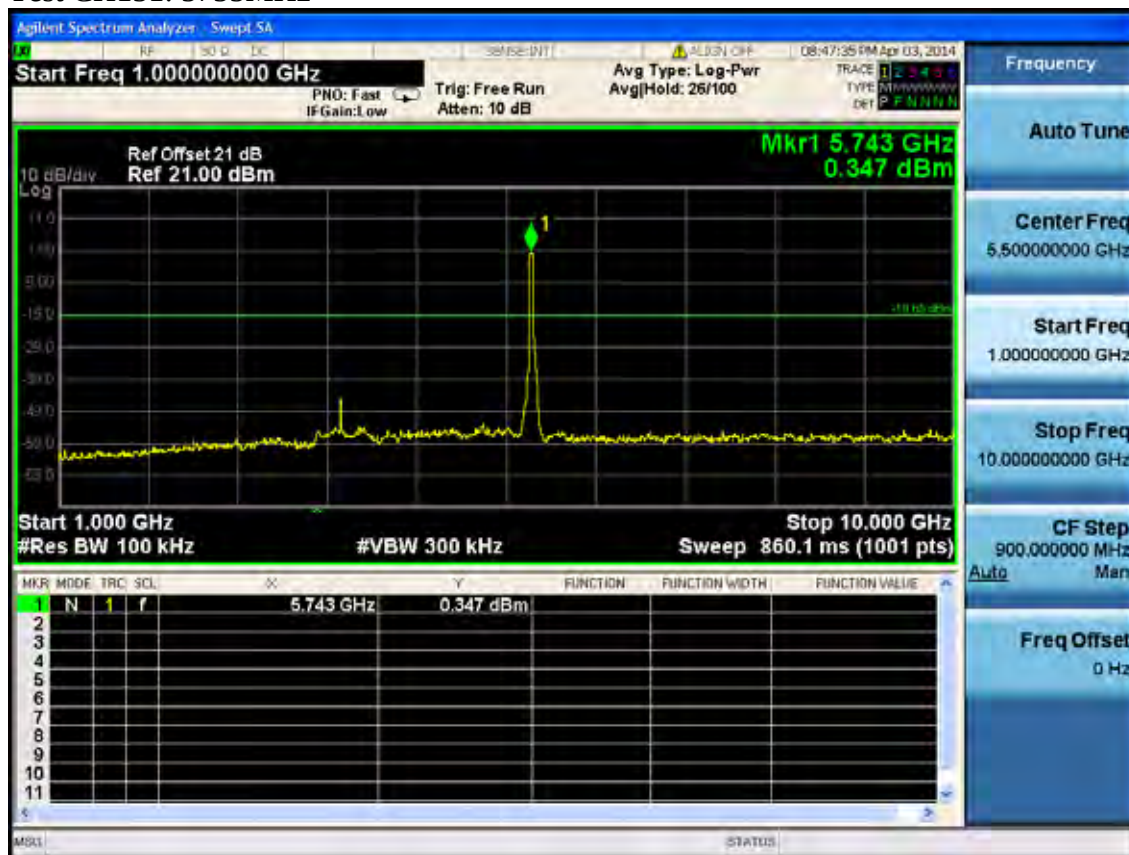
Test CH165: 5825MHz

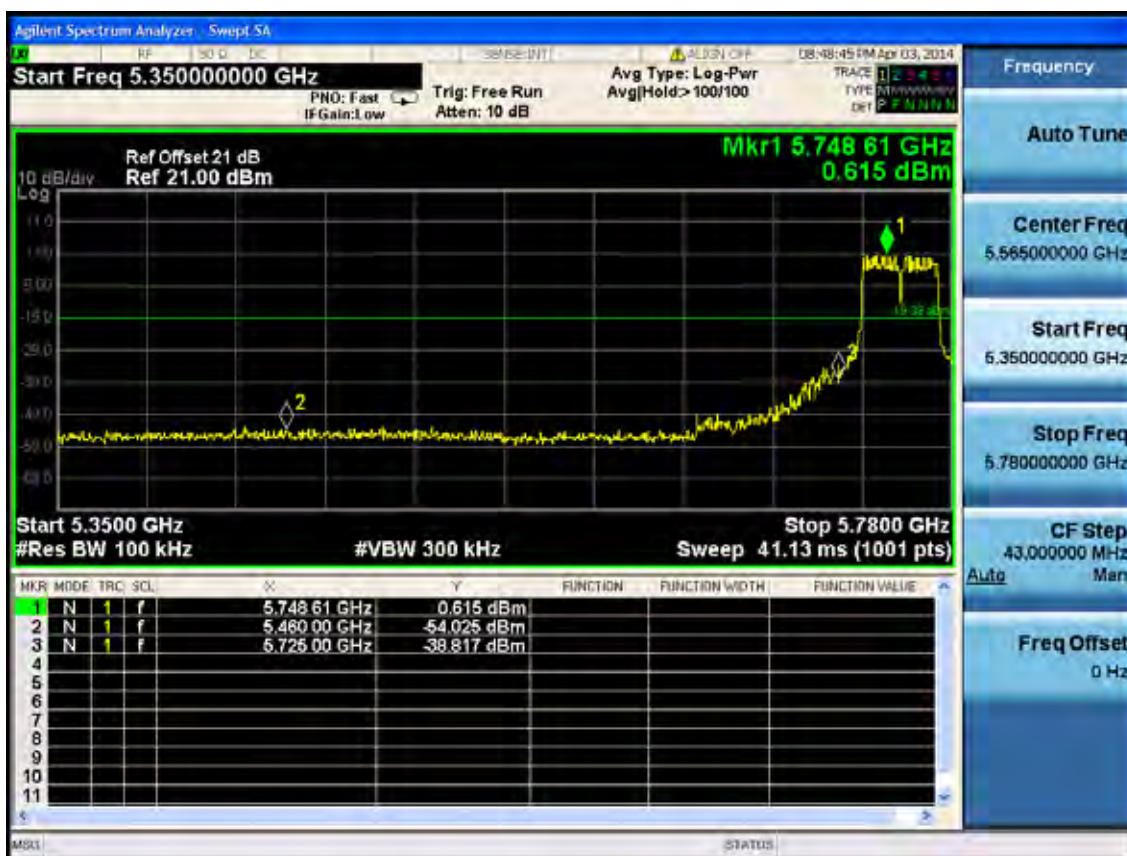
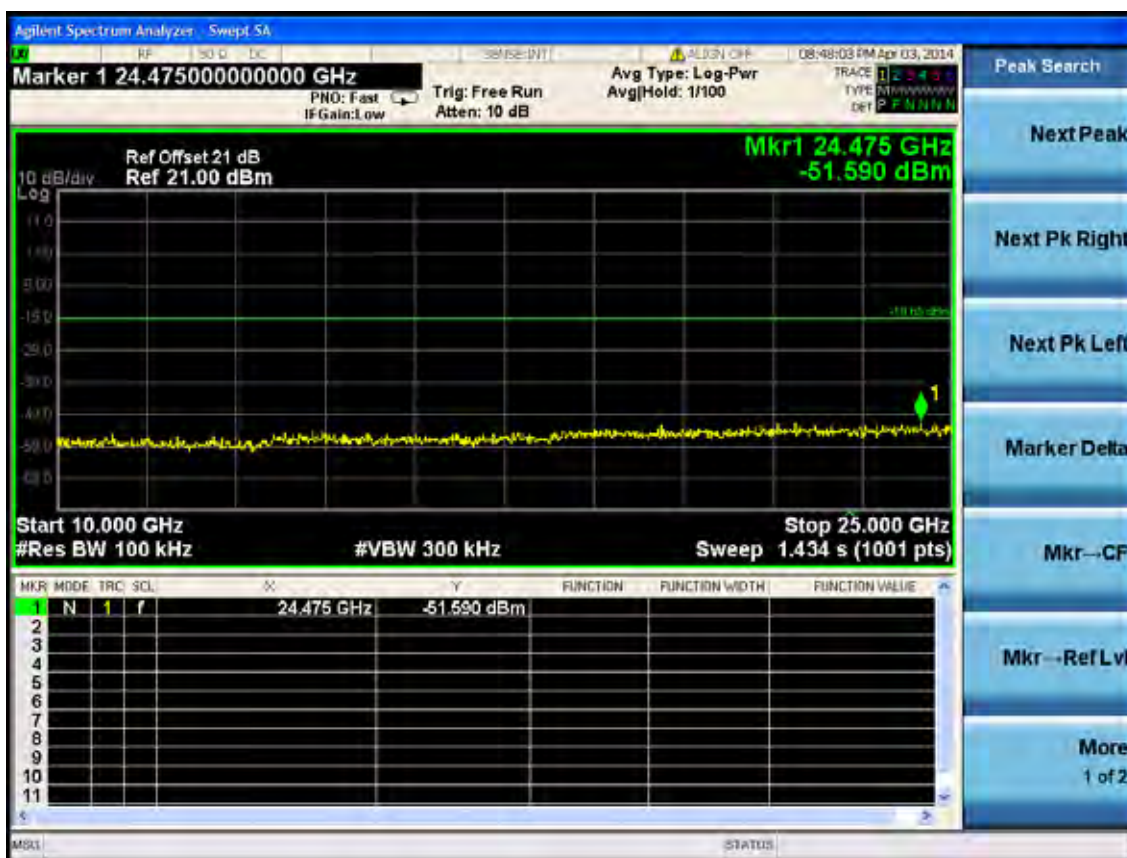




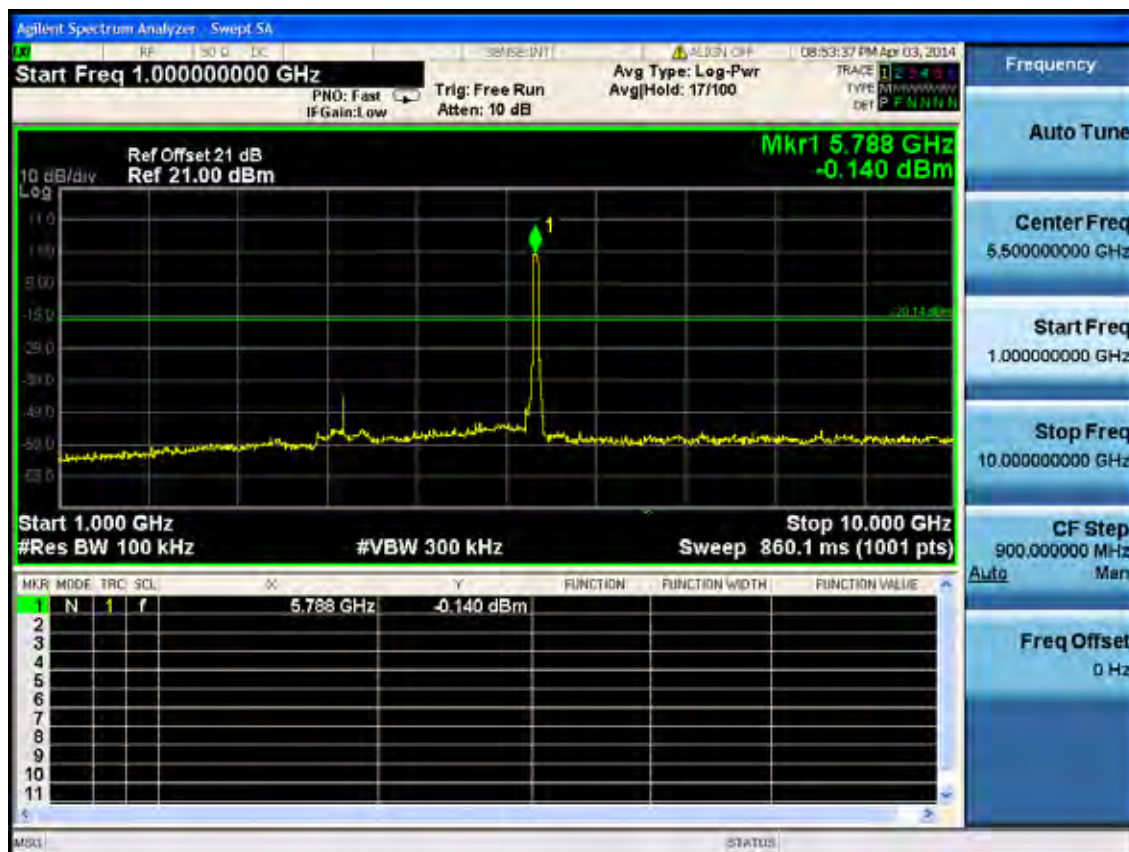
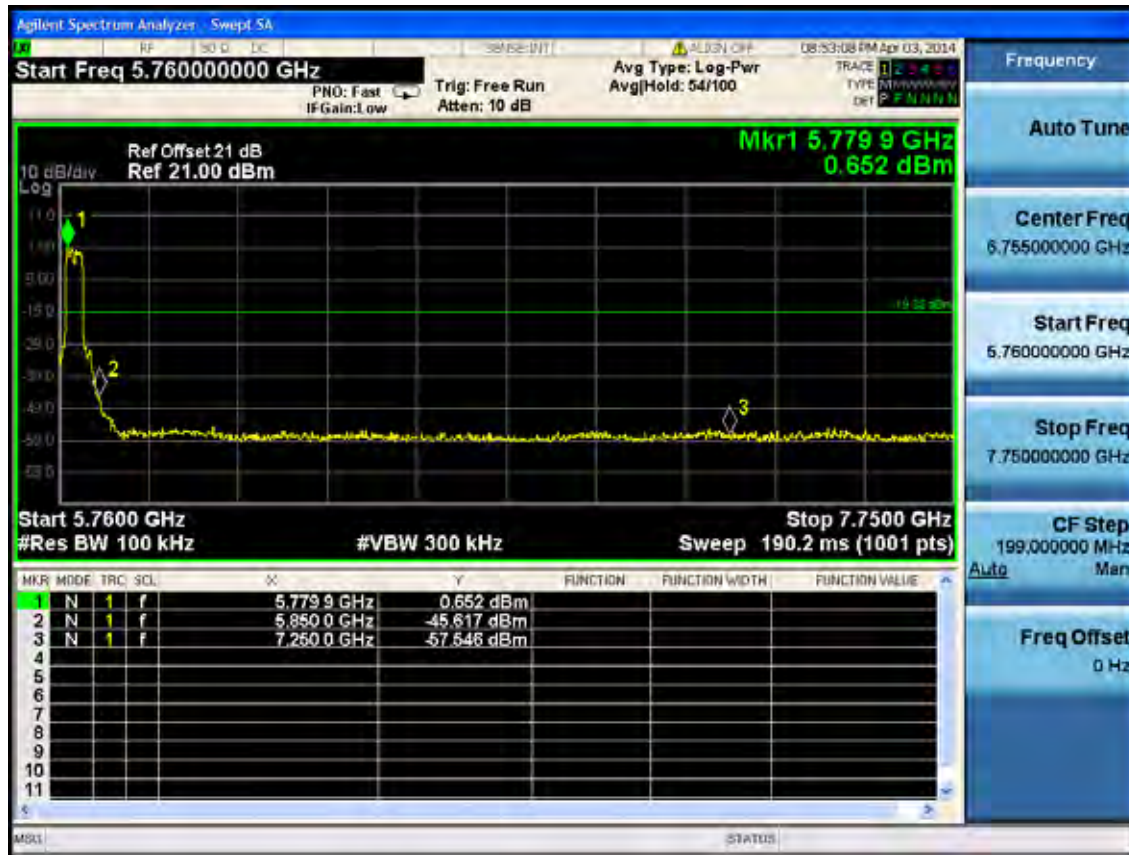
Test Mode: IEEE 802.11n HT40 TX

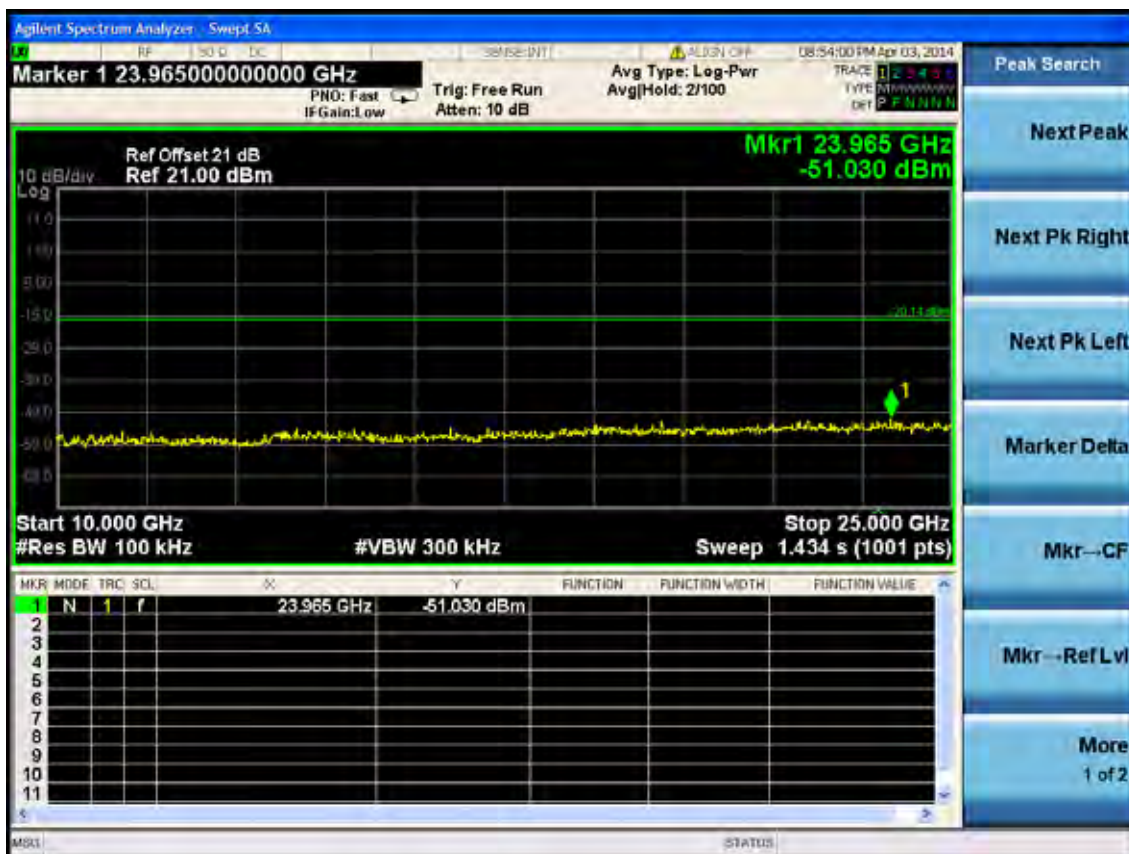
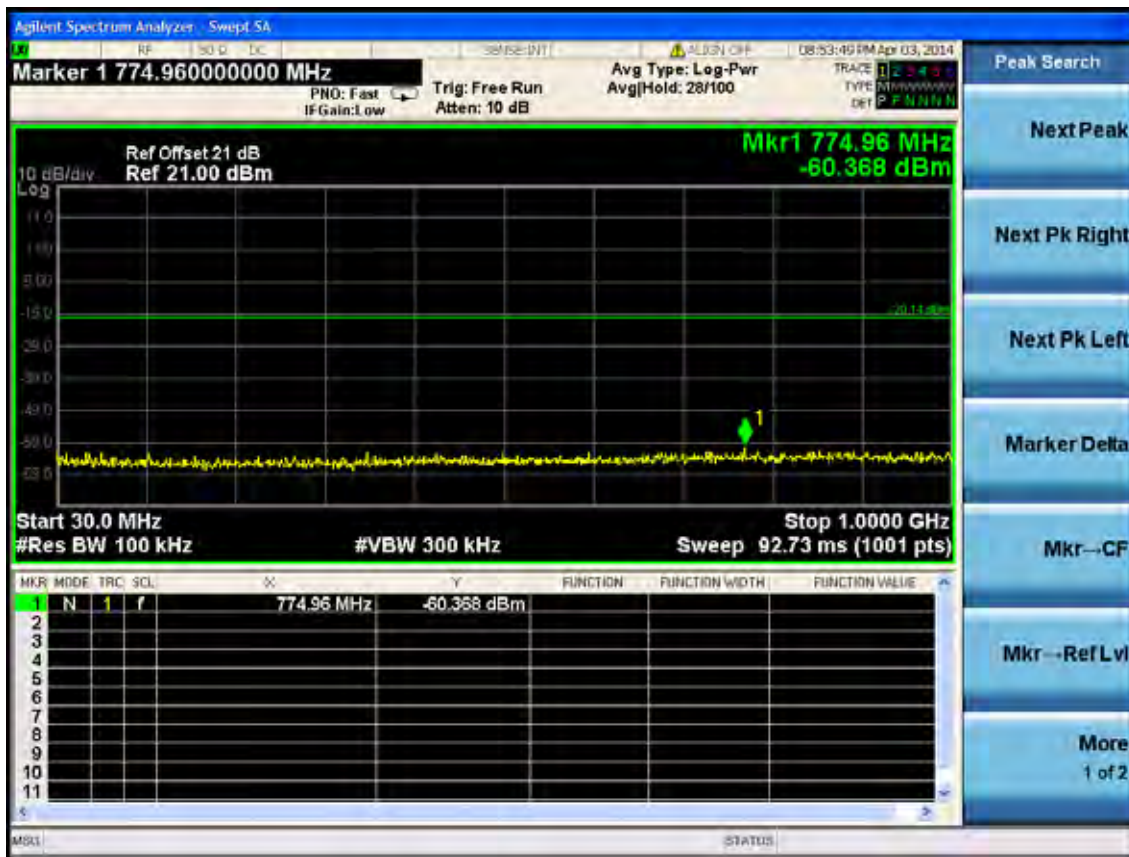
Test CH151: 5755MHz





Test CH159: 5795MHz

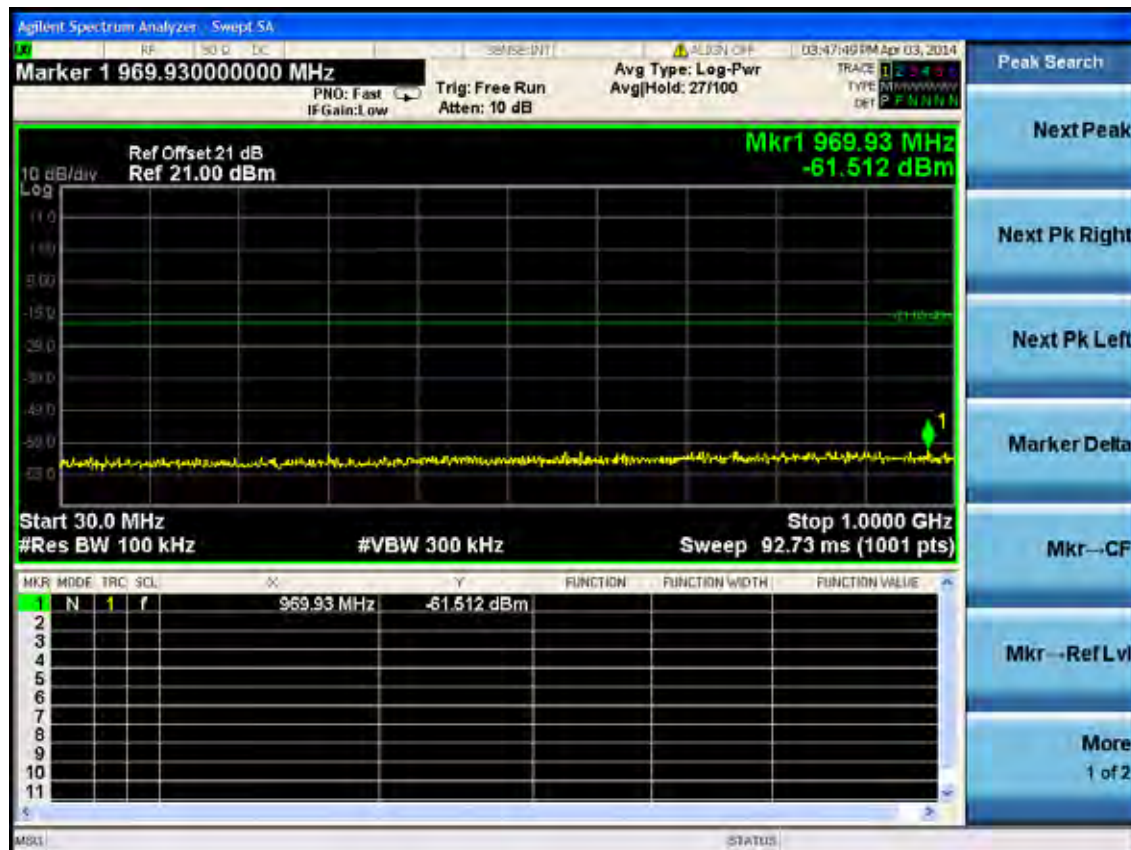
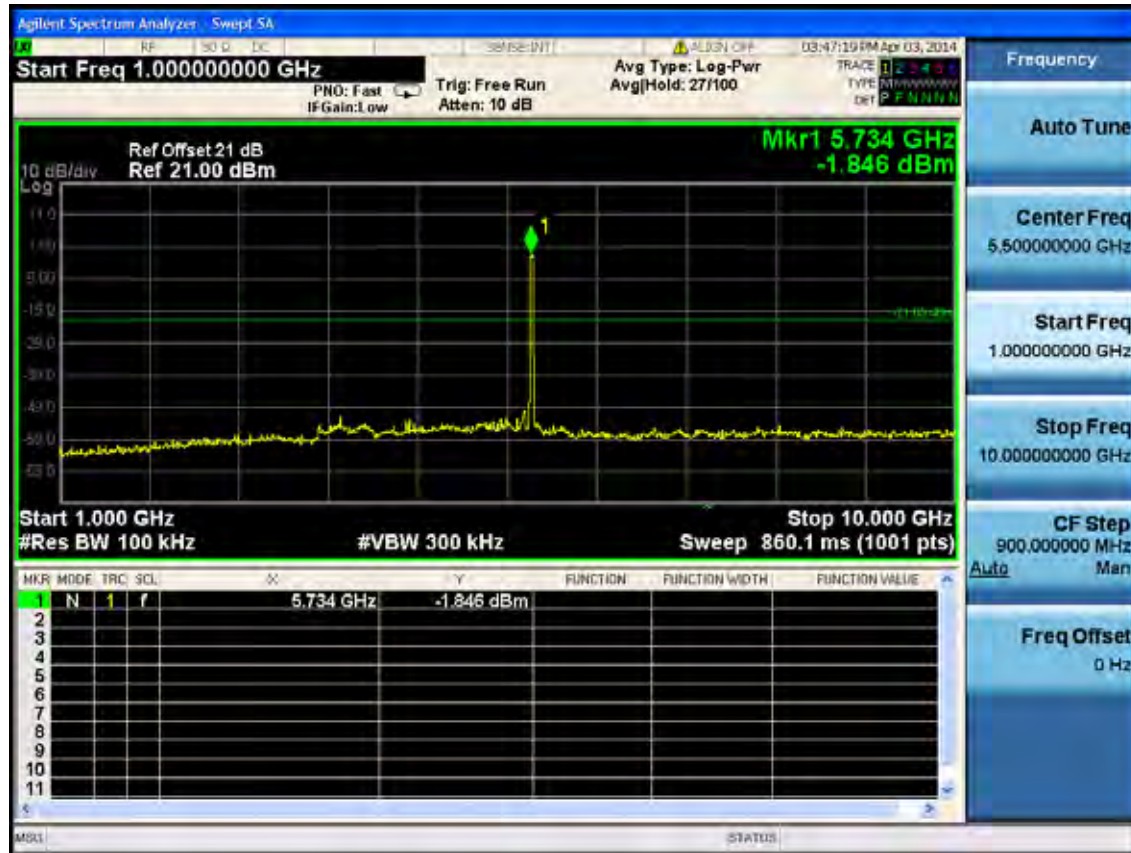


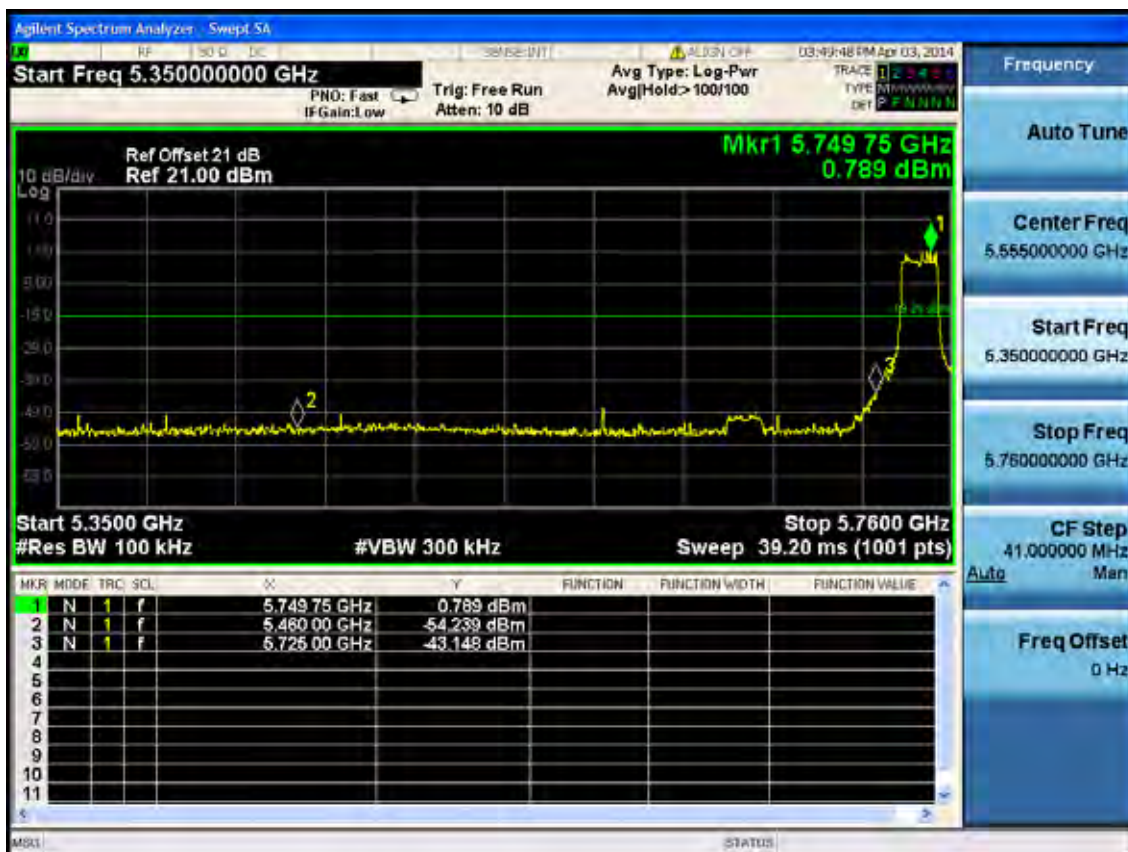
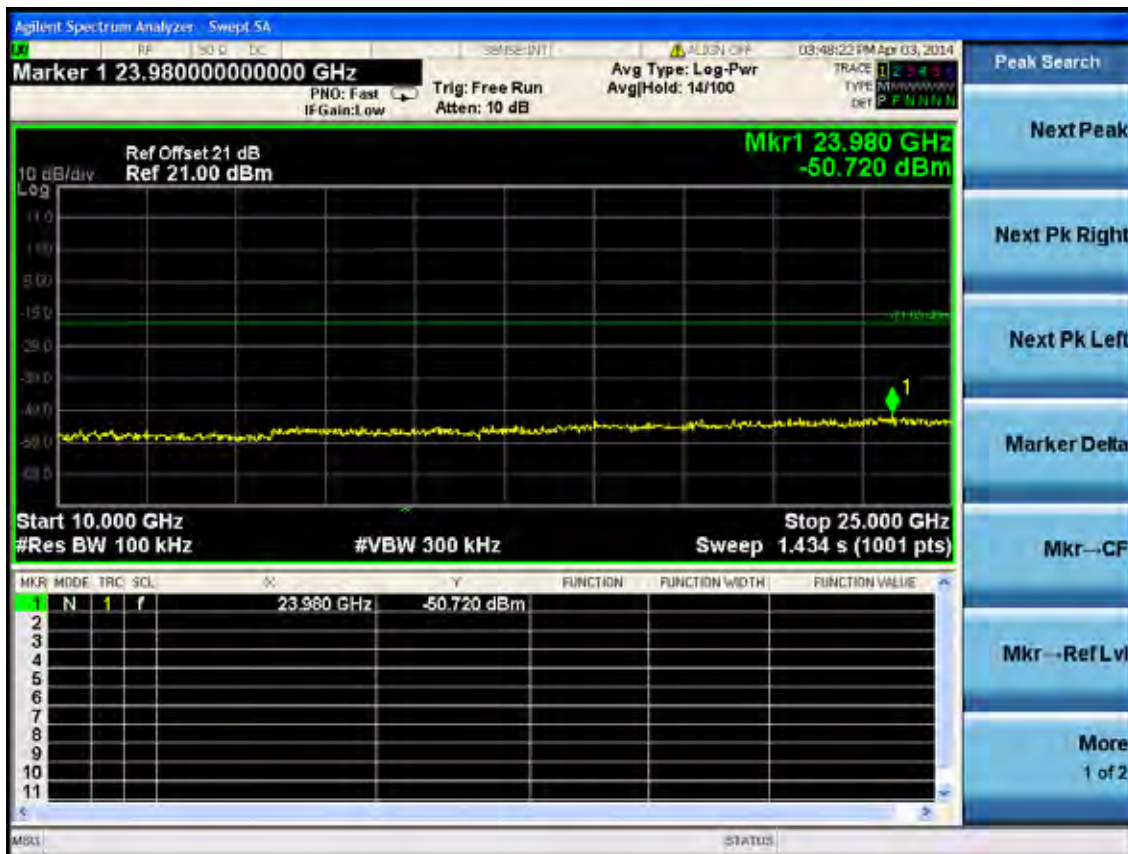


Chain 1:

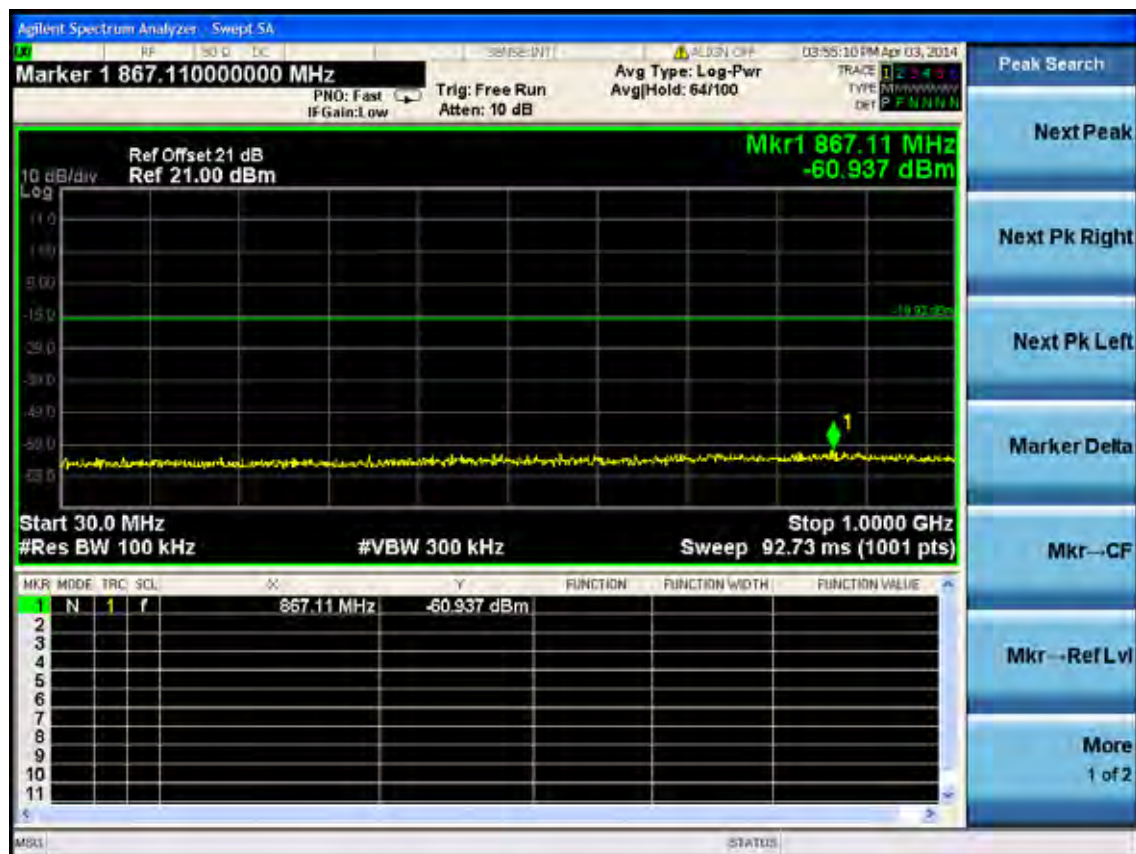
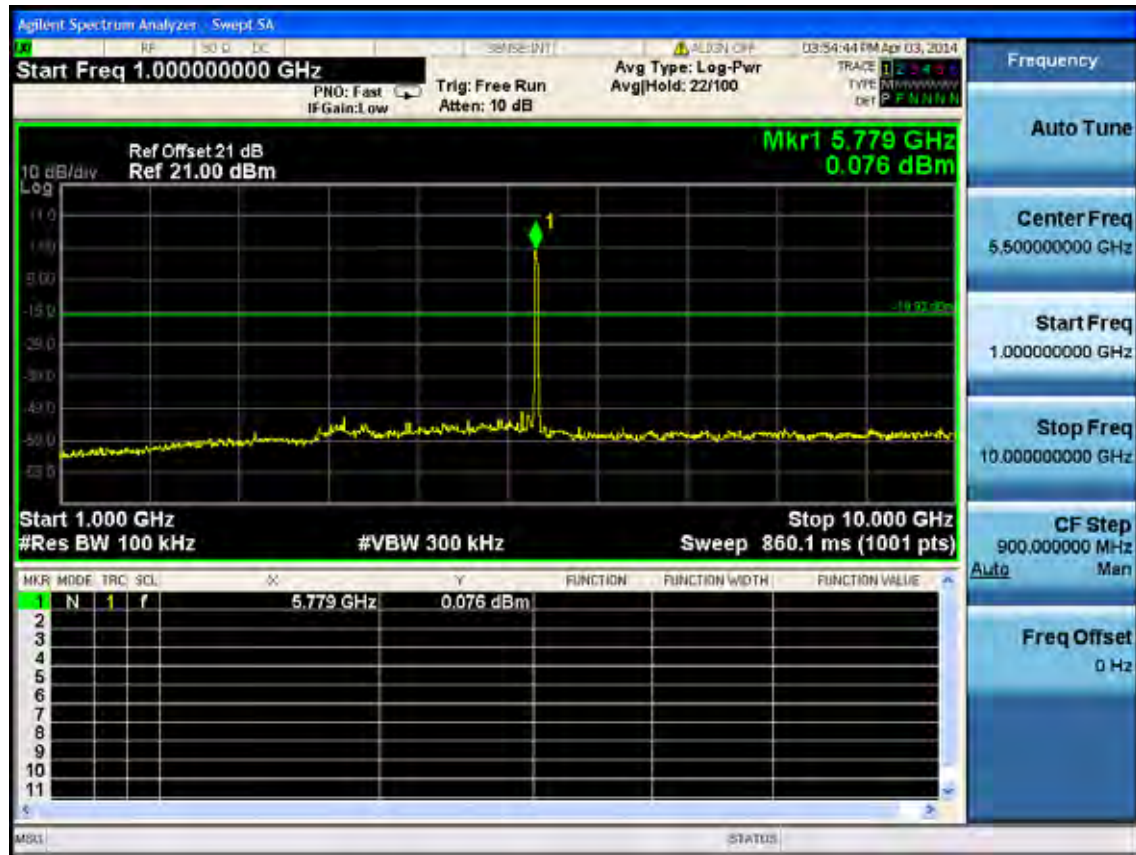
Test Mode: IEEE 802.11a TX

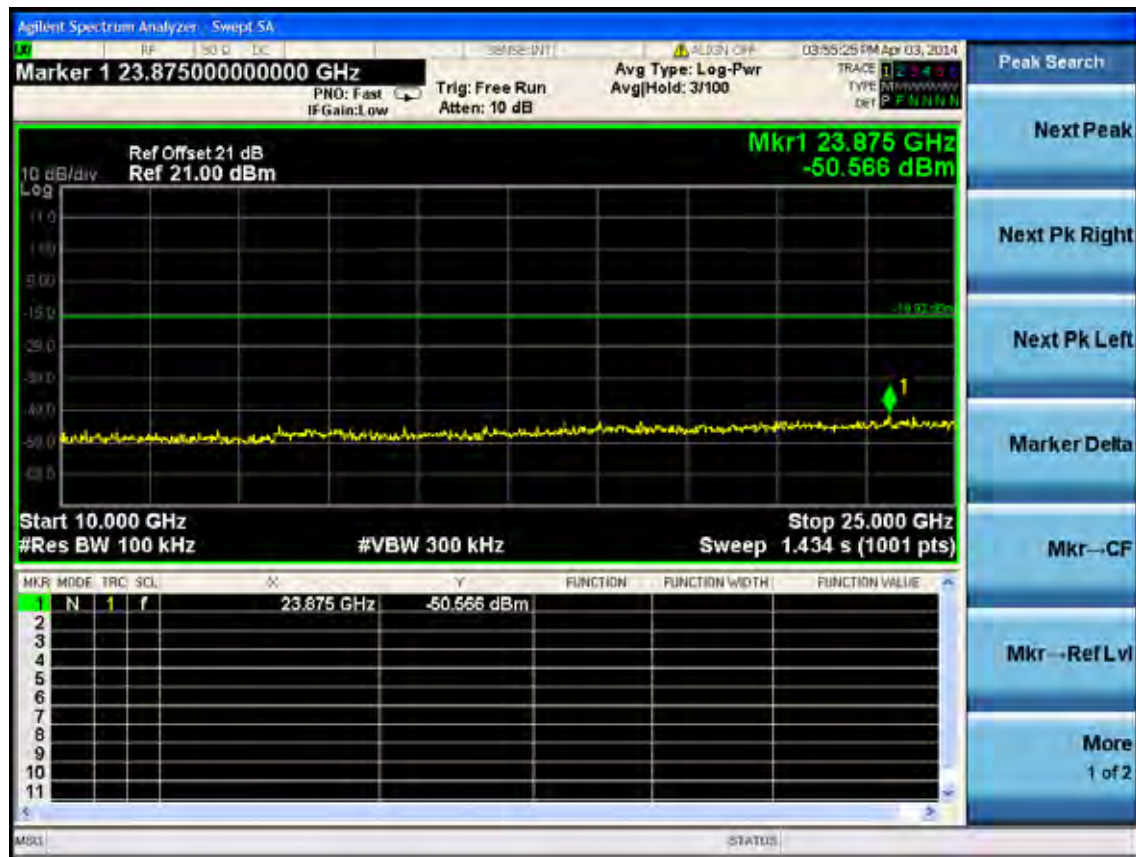
Test CH149: 5745MHz



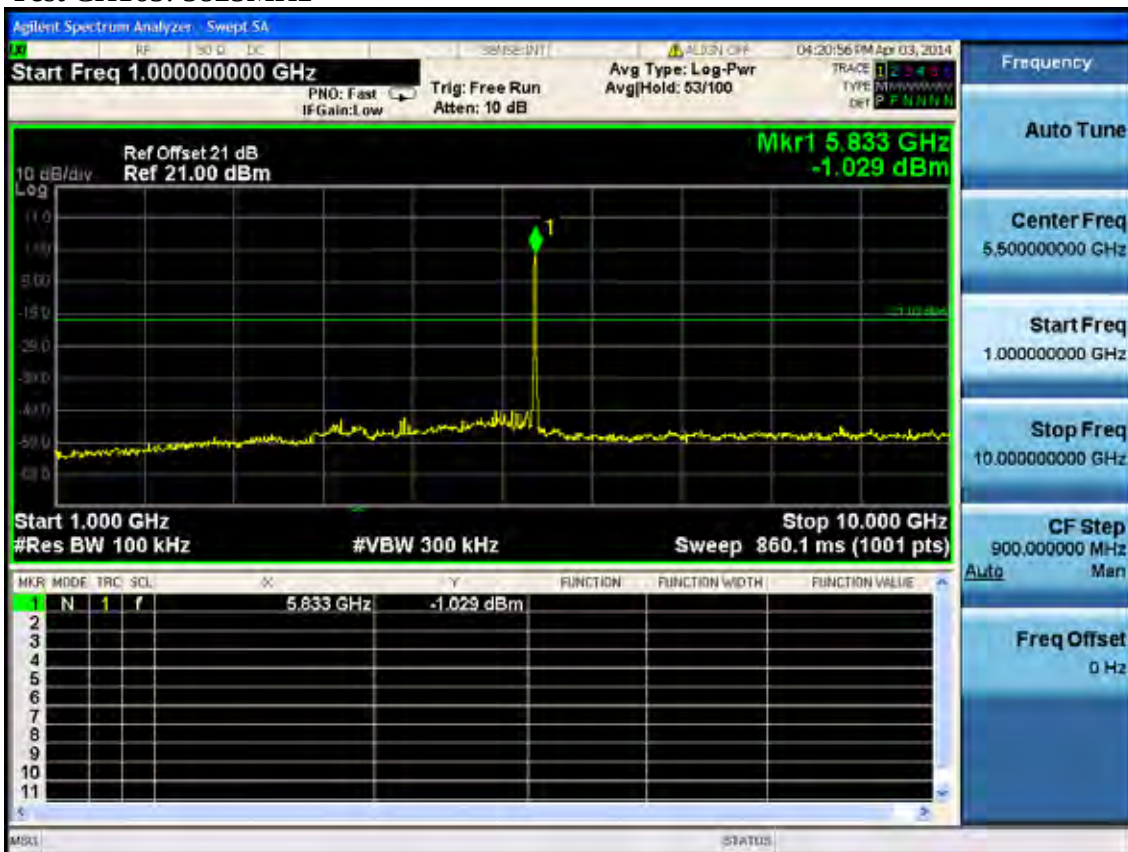


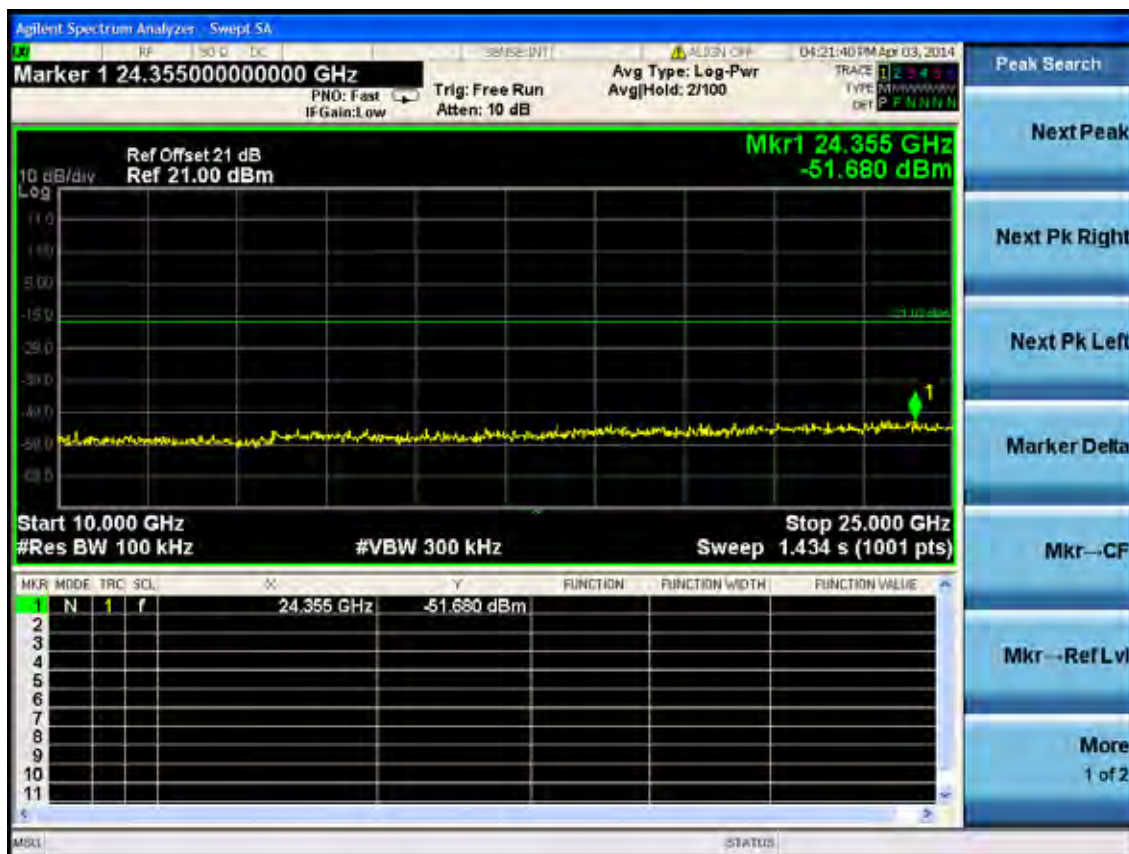
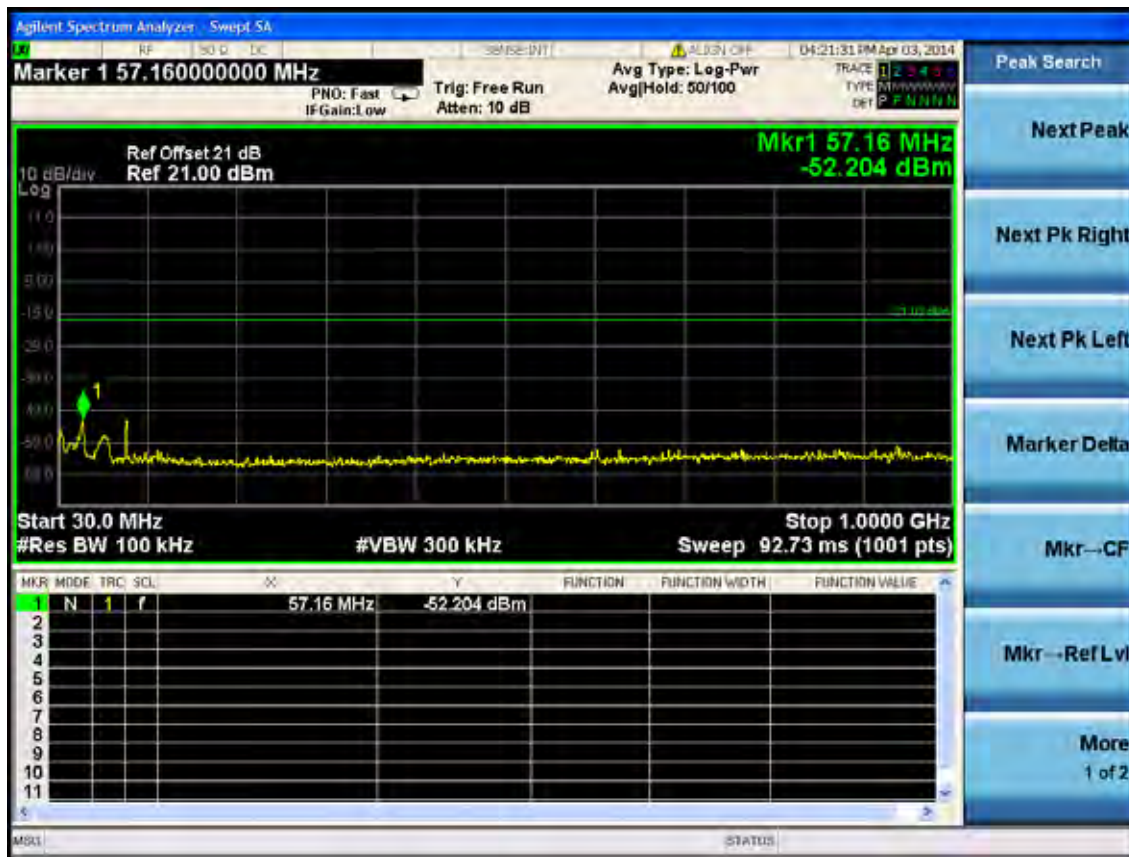
Test CH157: 5785MHz

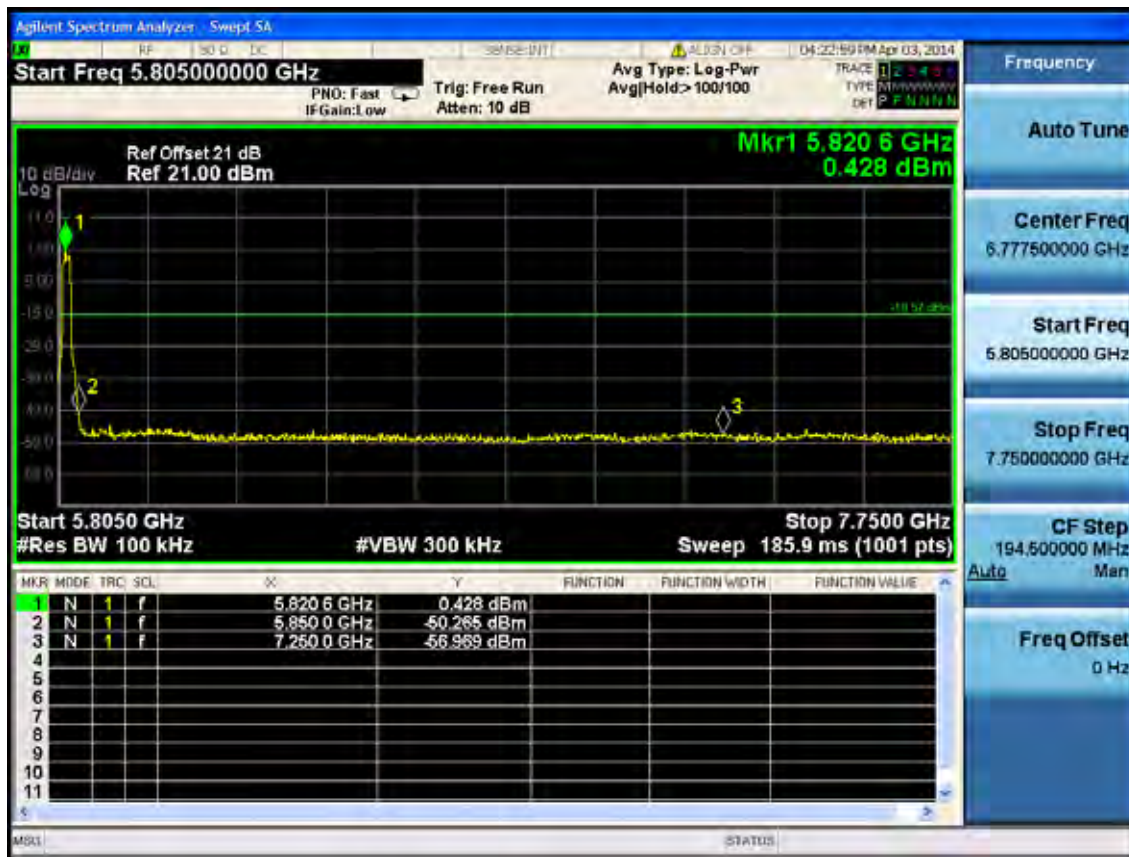




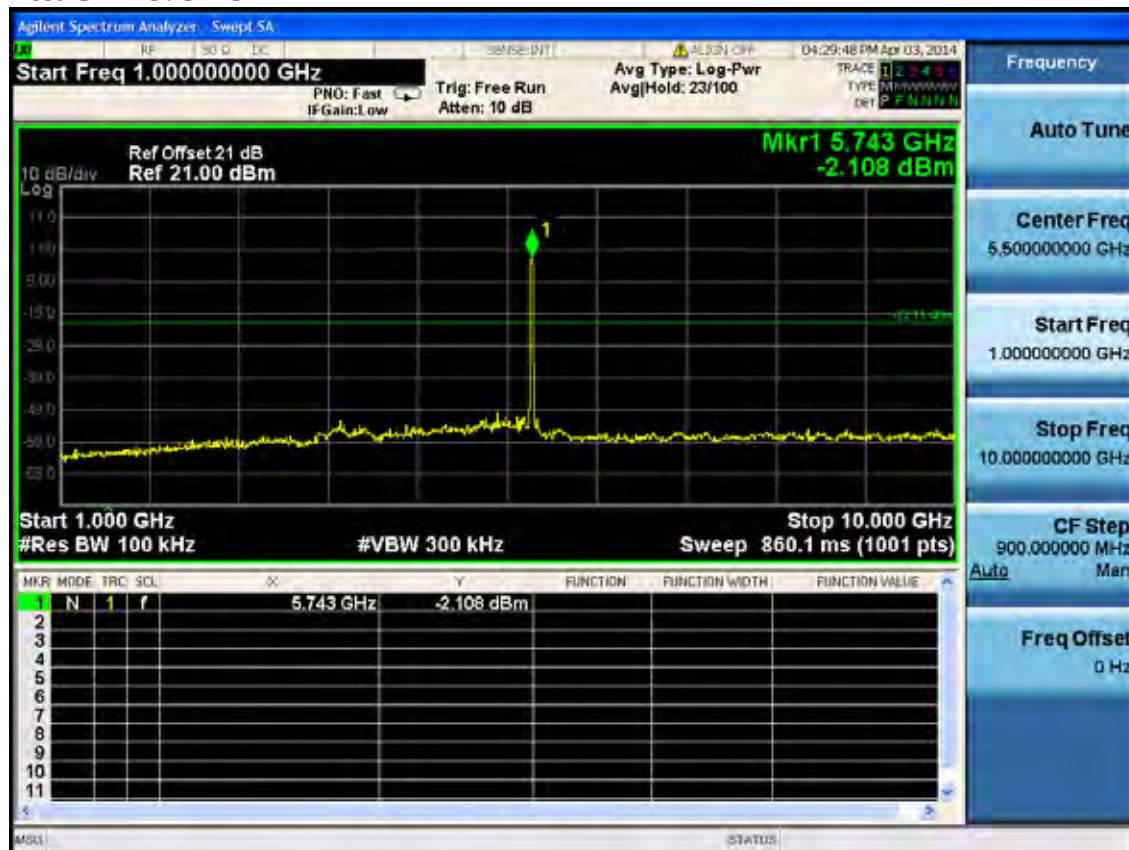
Test CH165: 5825MHz

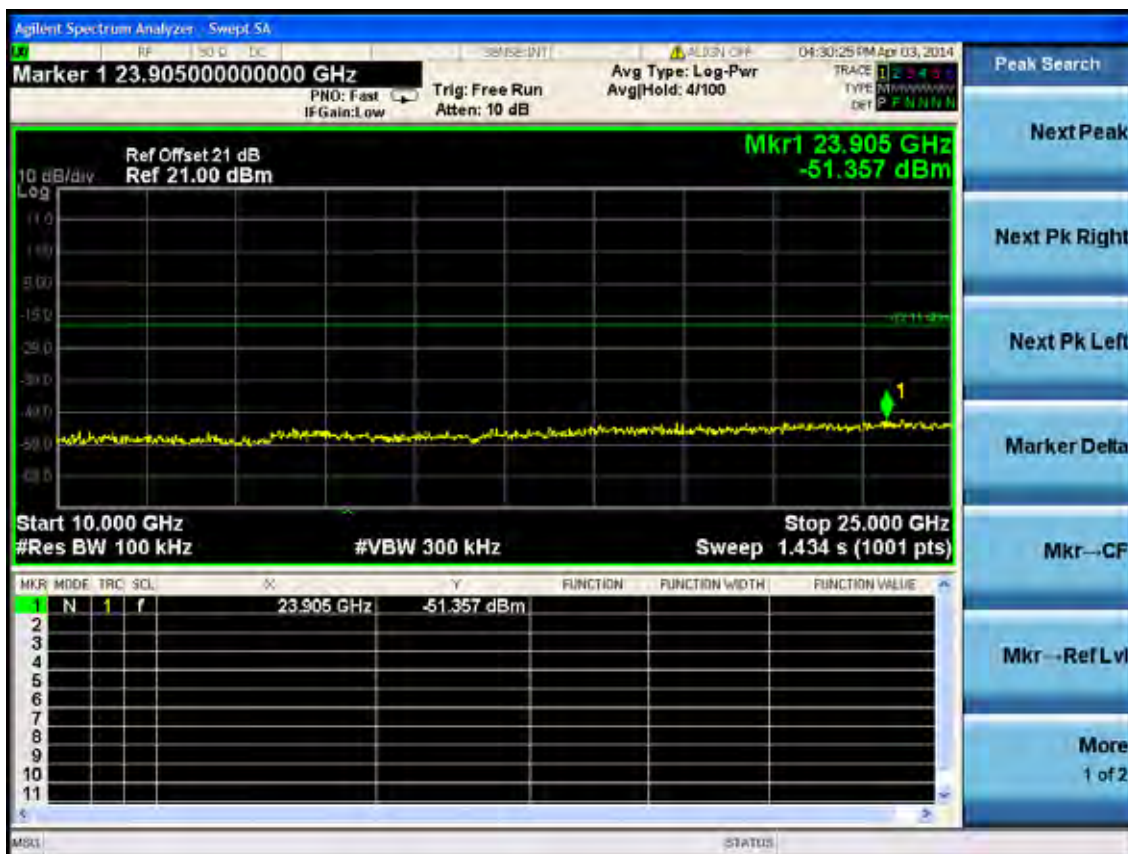
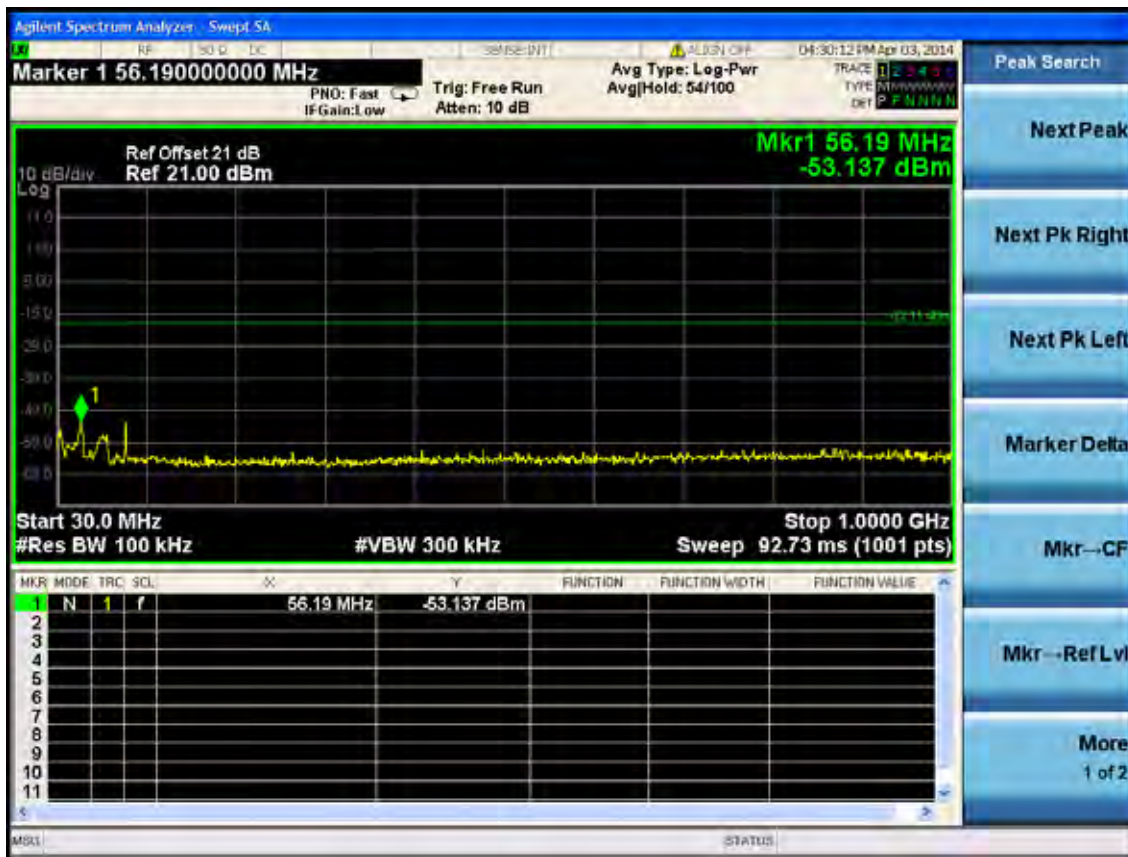


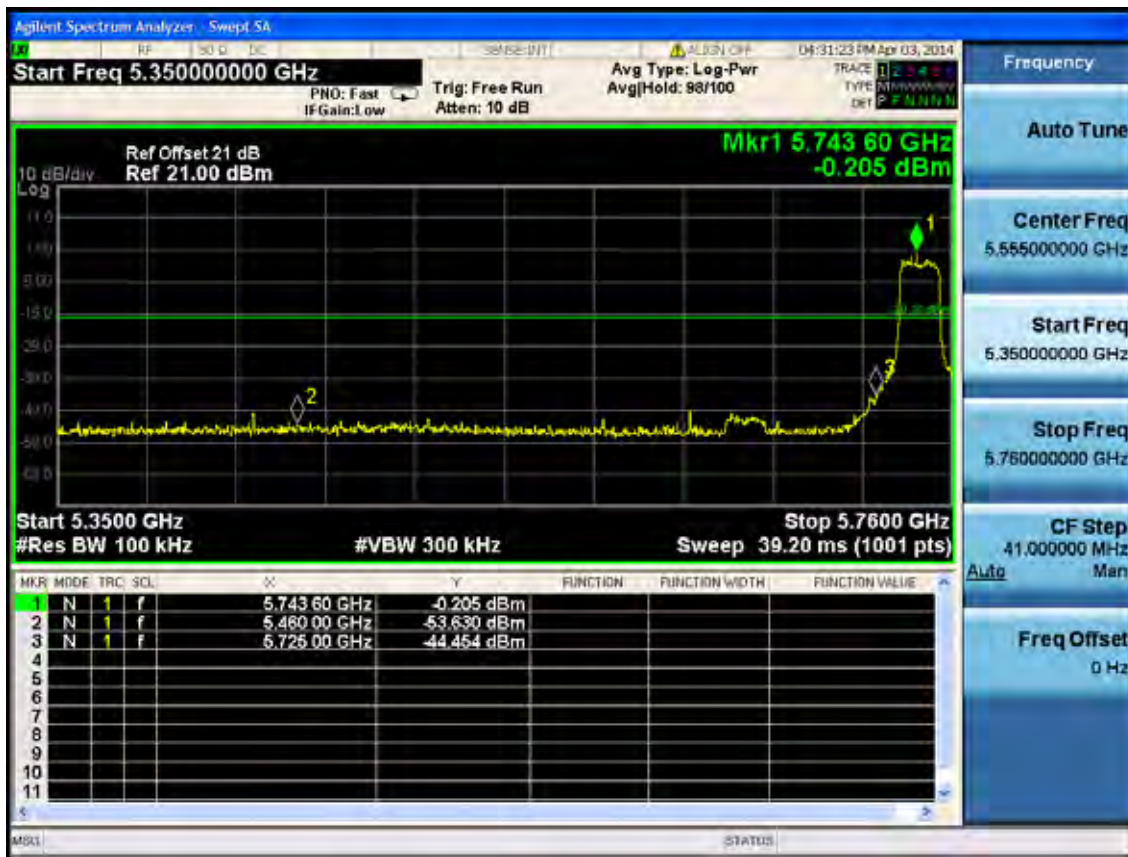




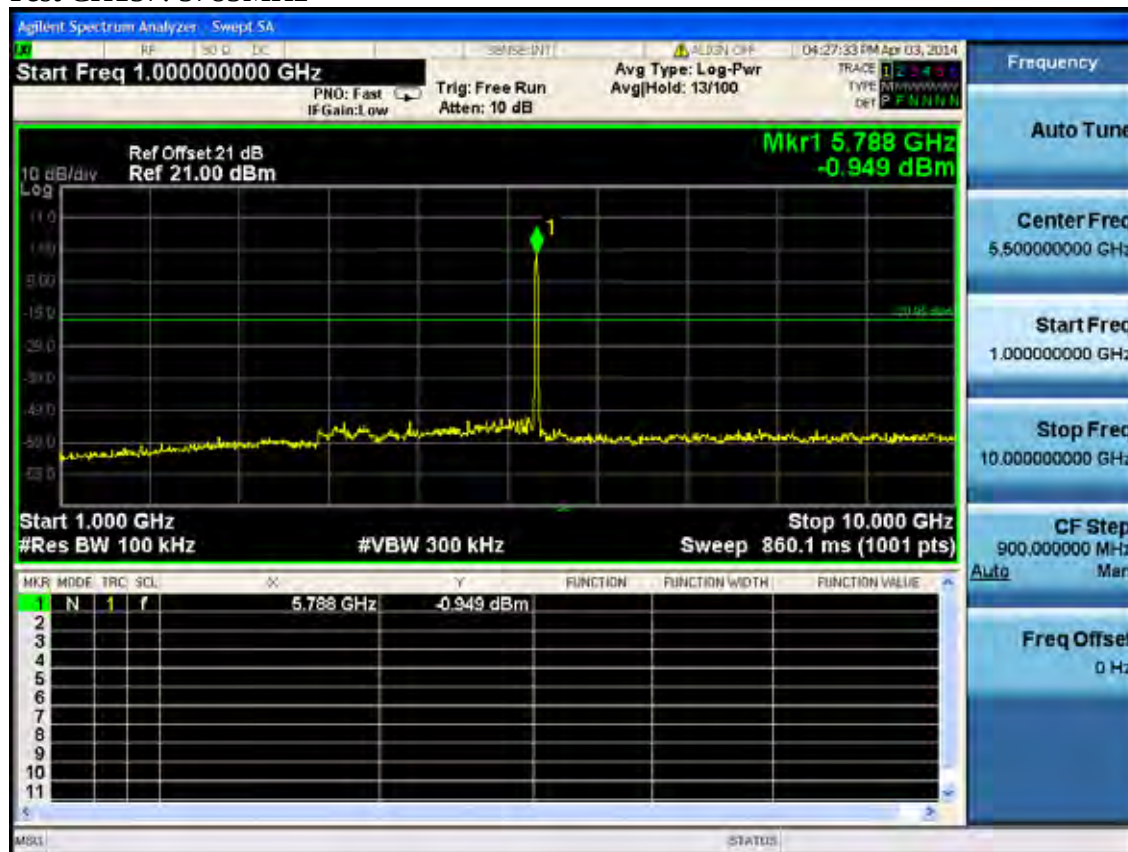
Test Mode: IEEE 802.11n HT20 TX
Test CH149: 5745MHz

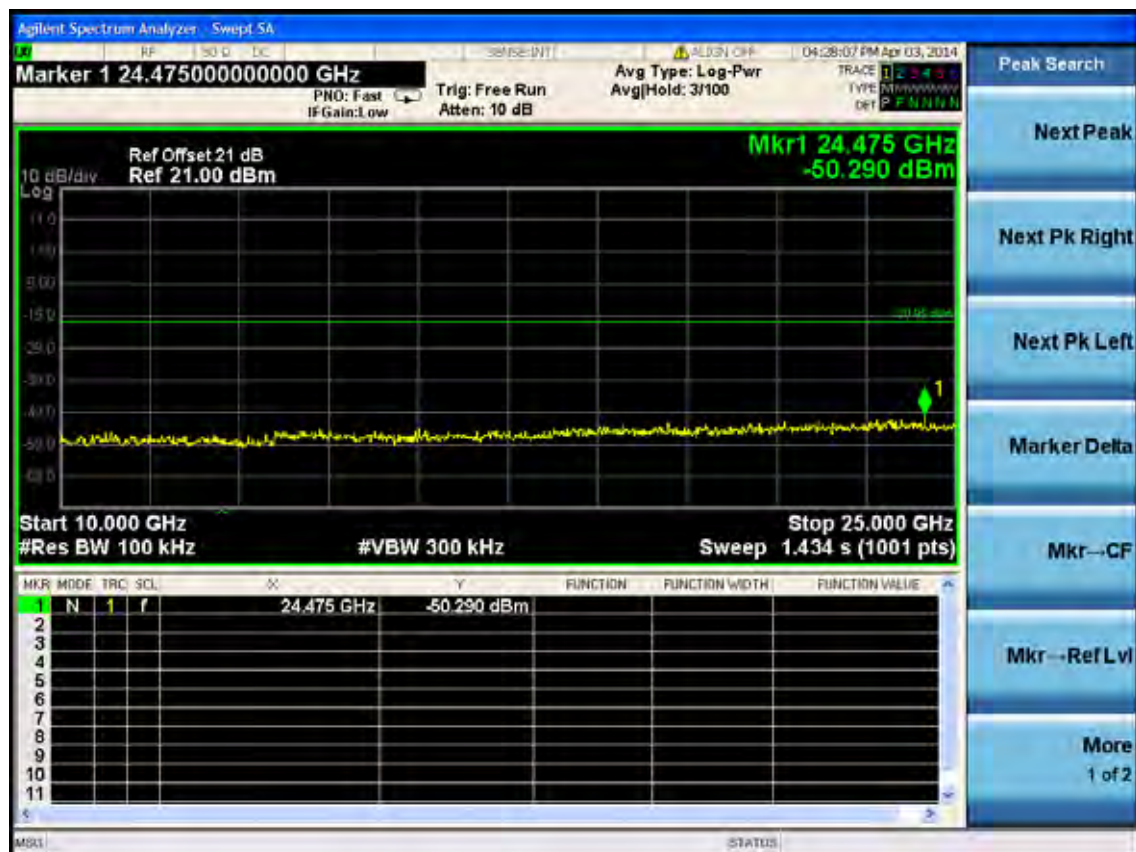
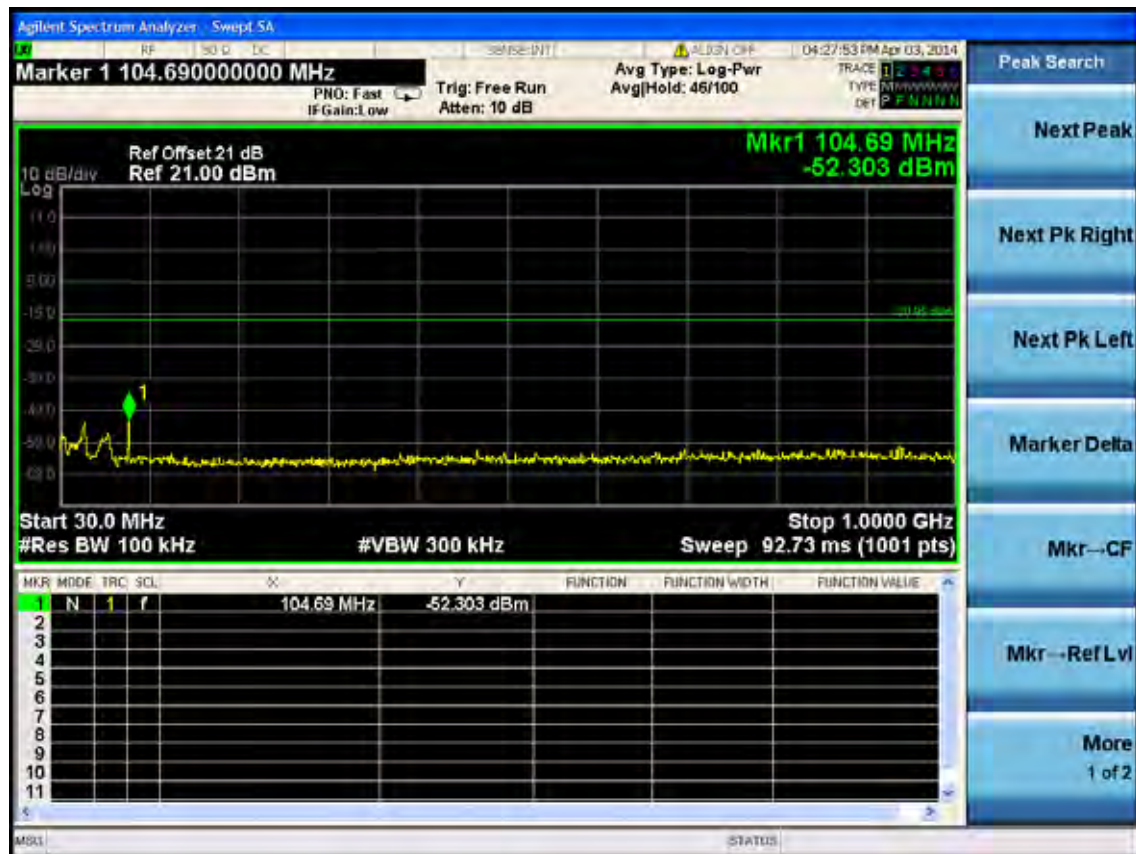




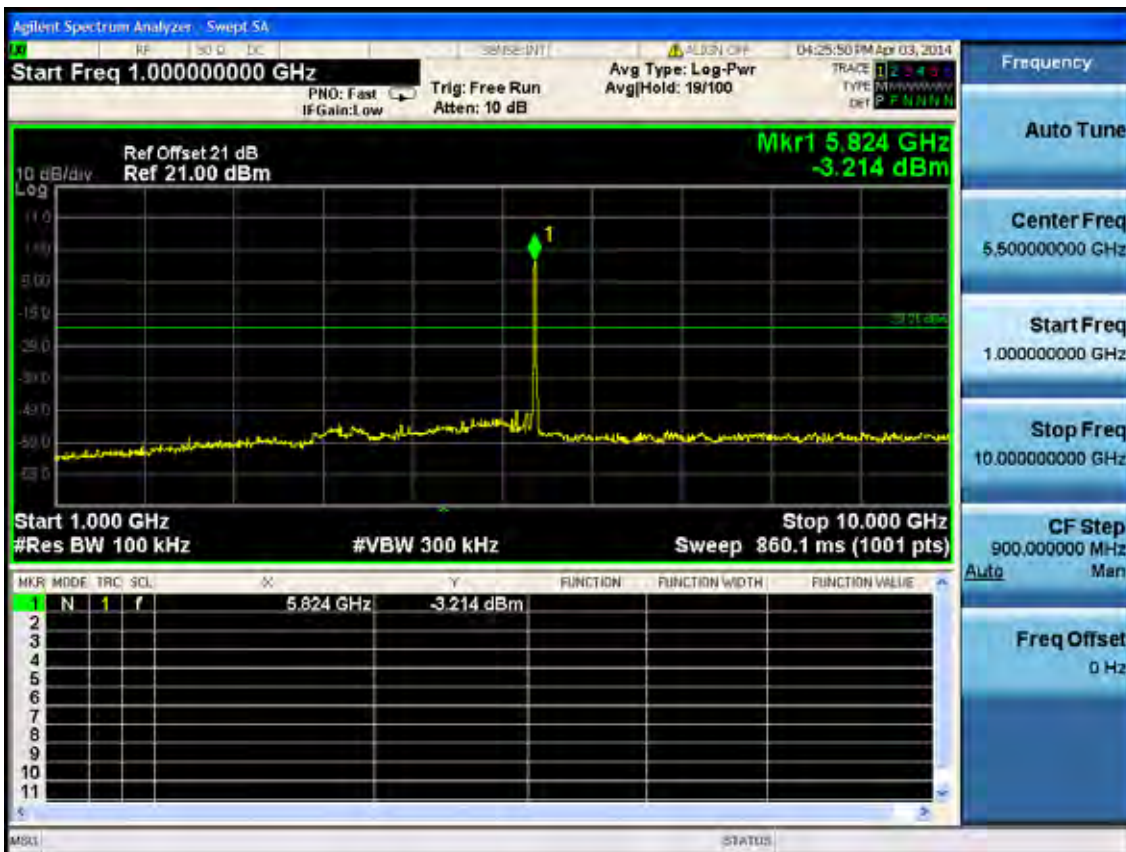
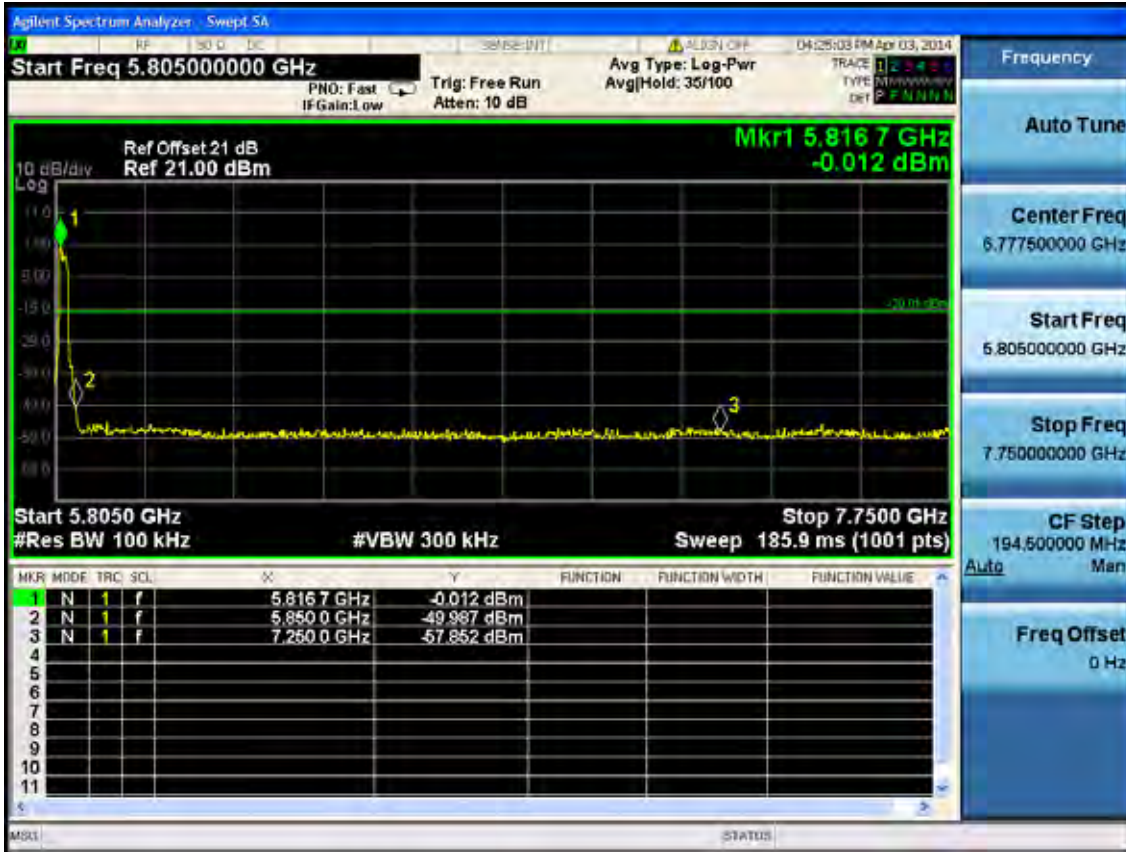


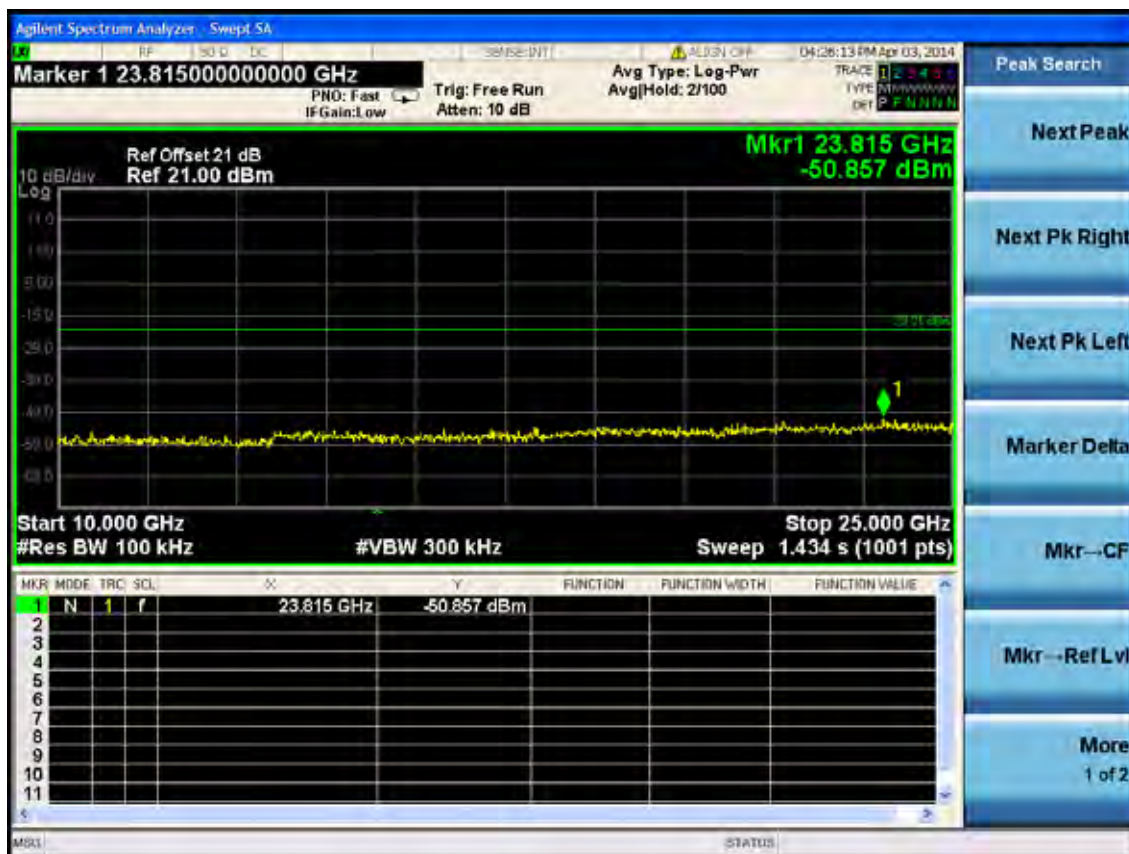
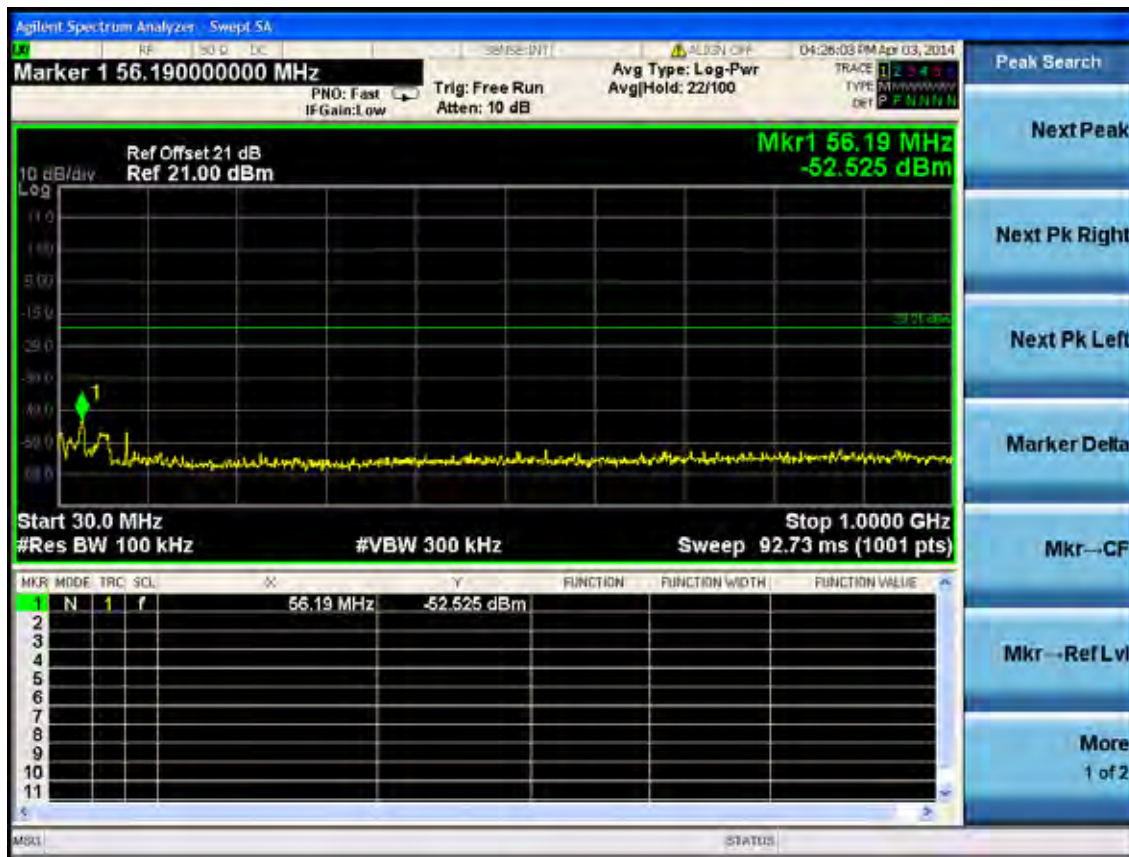
Test CH157: 5785MHz



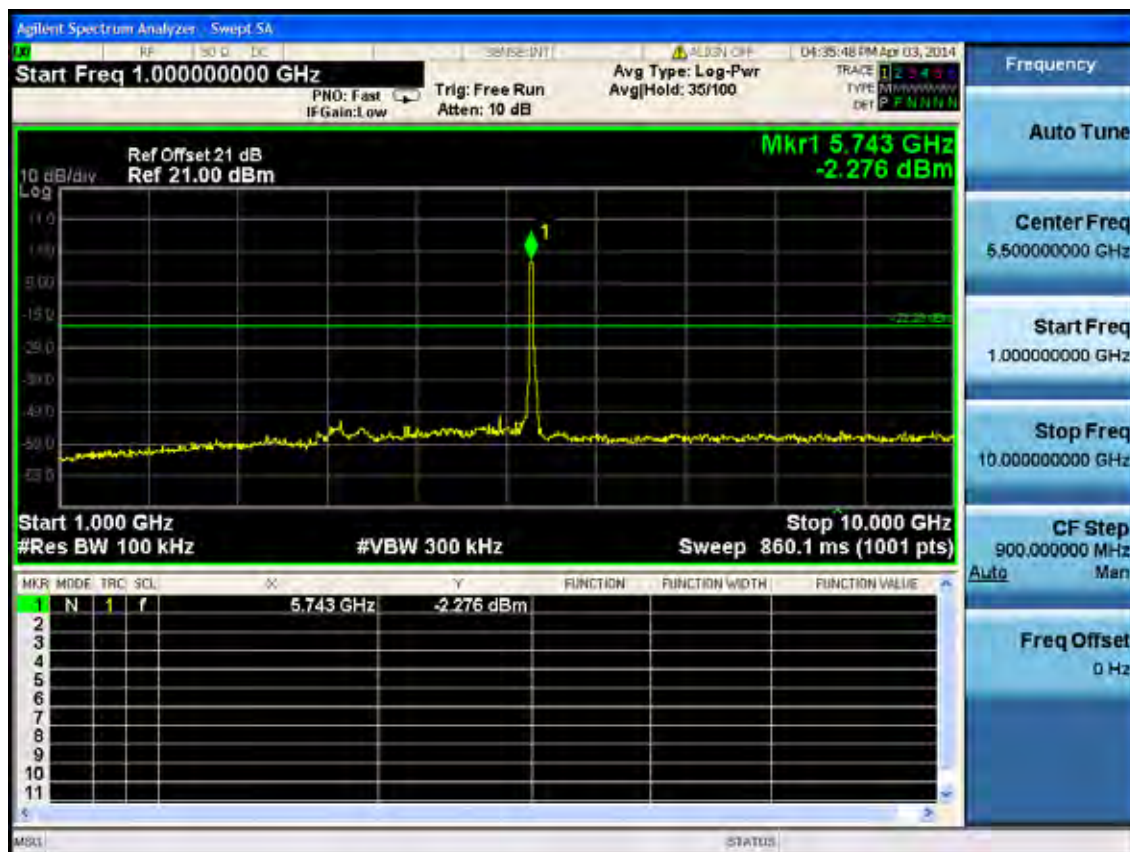
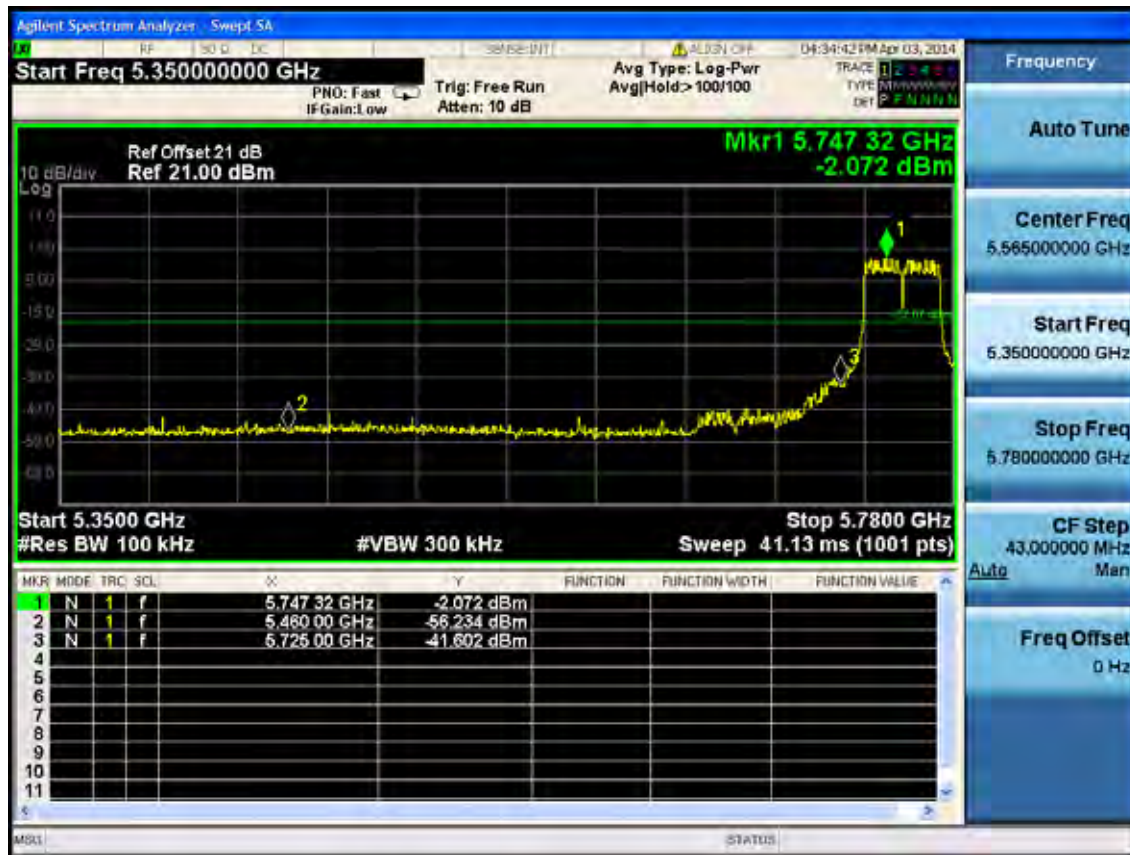


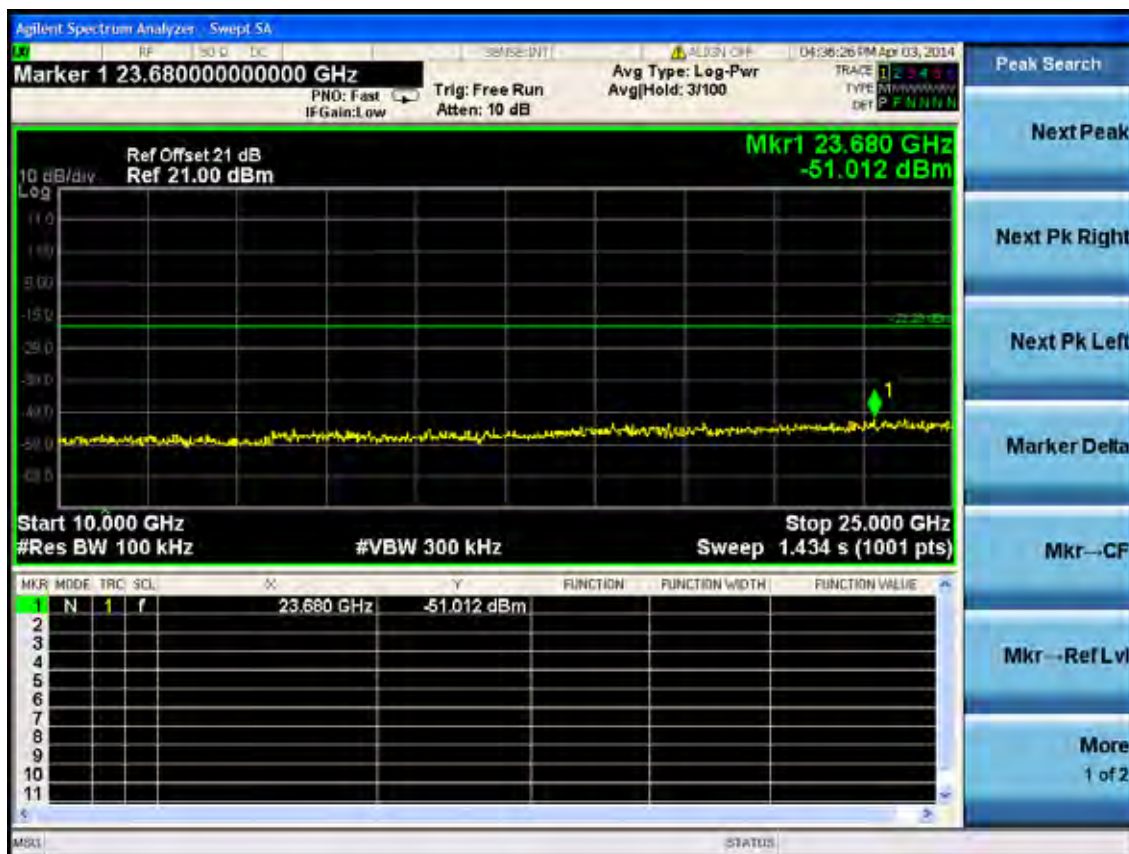
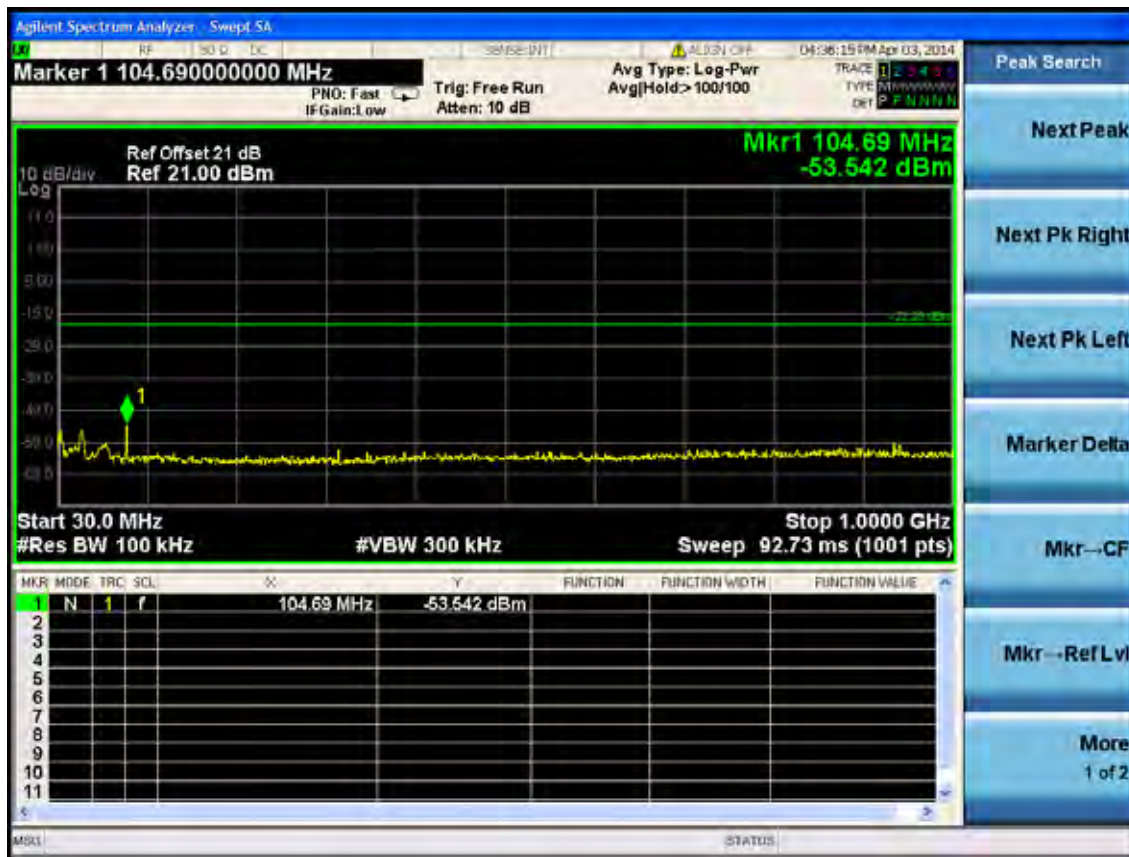
Test CH165: 5825MHz



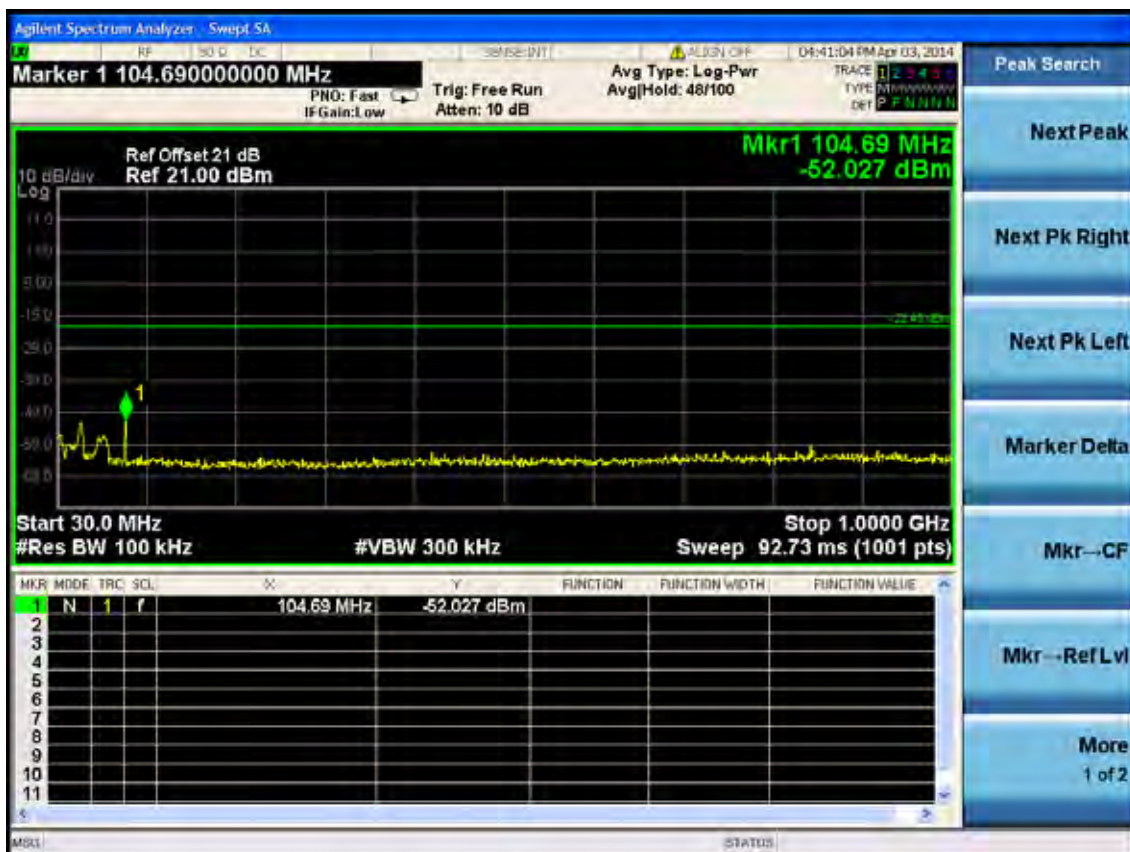
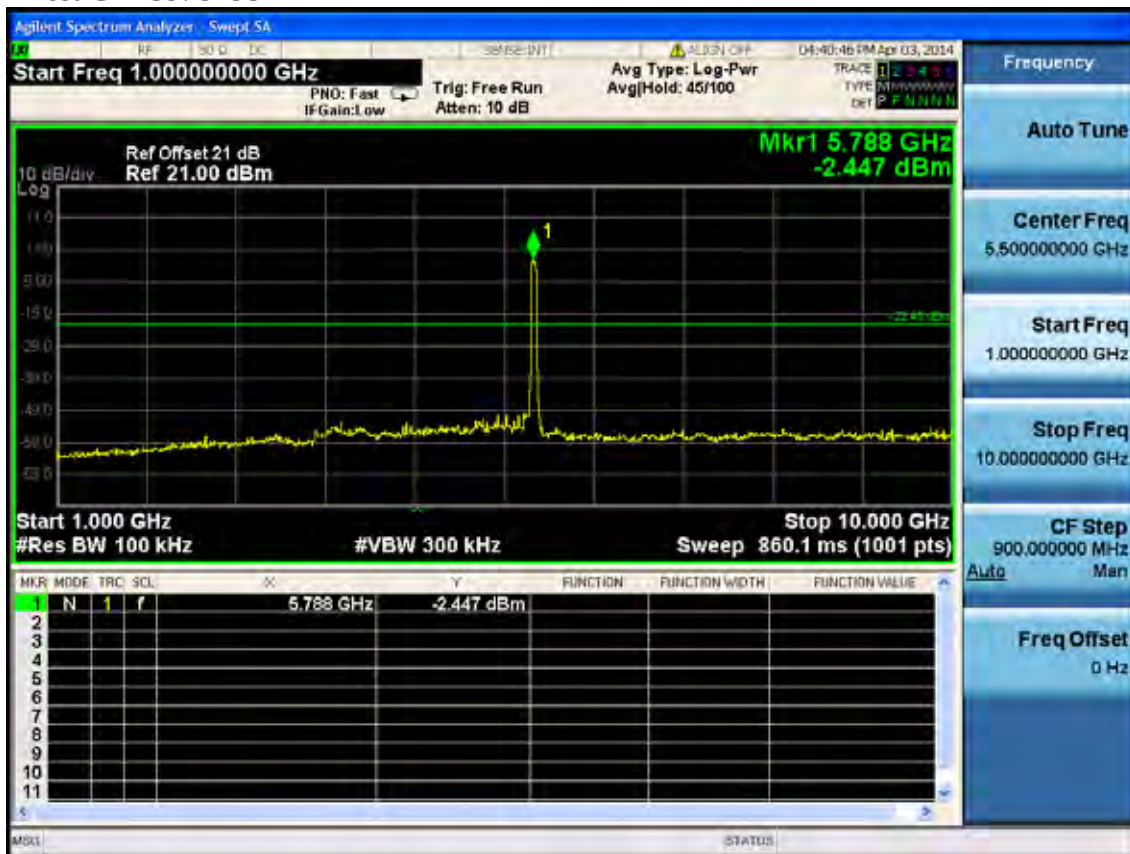


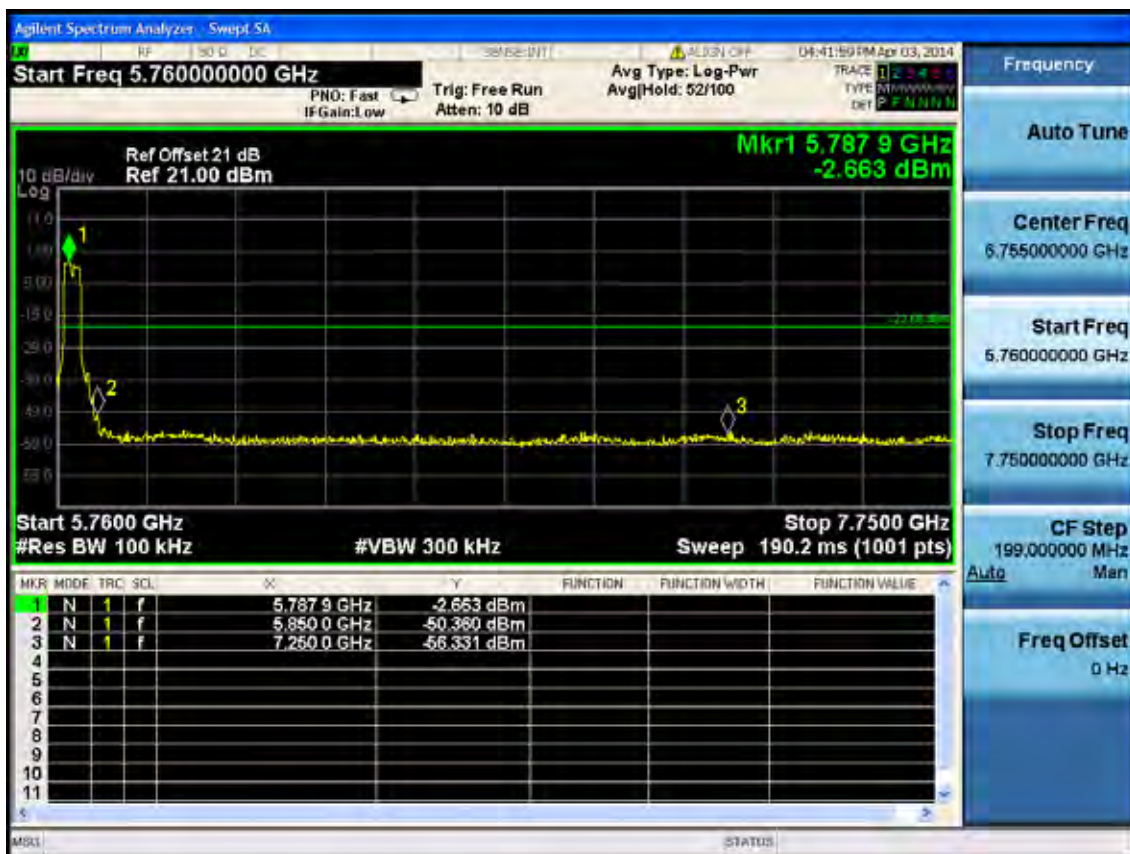
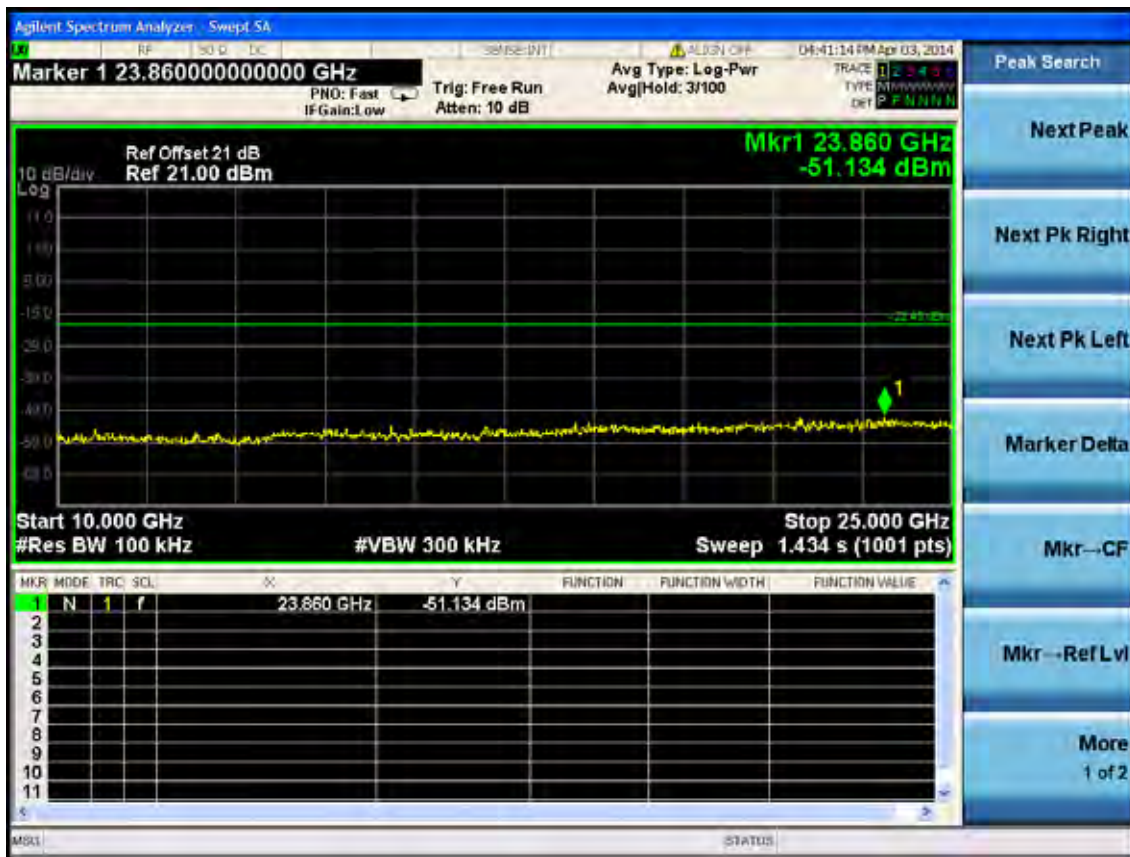
Test Mode: IEEE 802.11n HT40 TX
Test CH151: 5755MHz





Test CH159: 5795MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

6.2. Limit

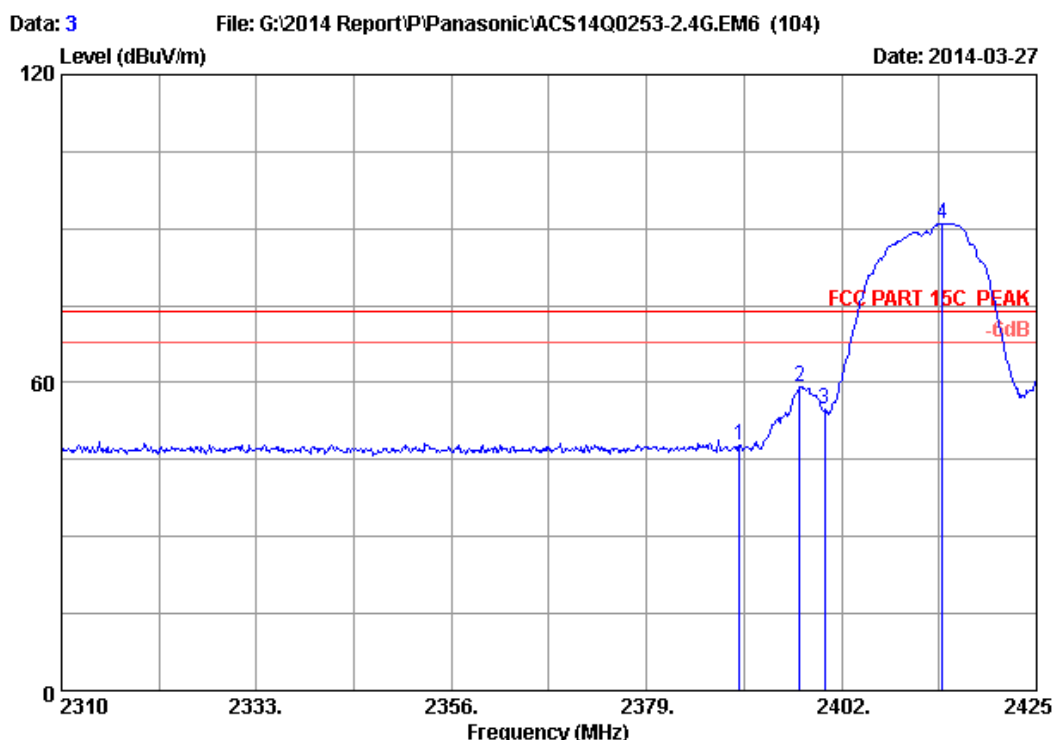
All the lower and upper band-edges emissions appearing within 5.35-5.46GHz and 7.25-7.75GHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 5725MHz to 5850MHz shall be at least 20dB below the fundamental emissions, or comply 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

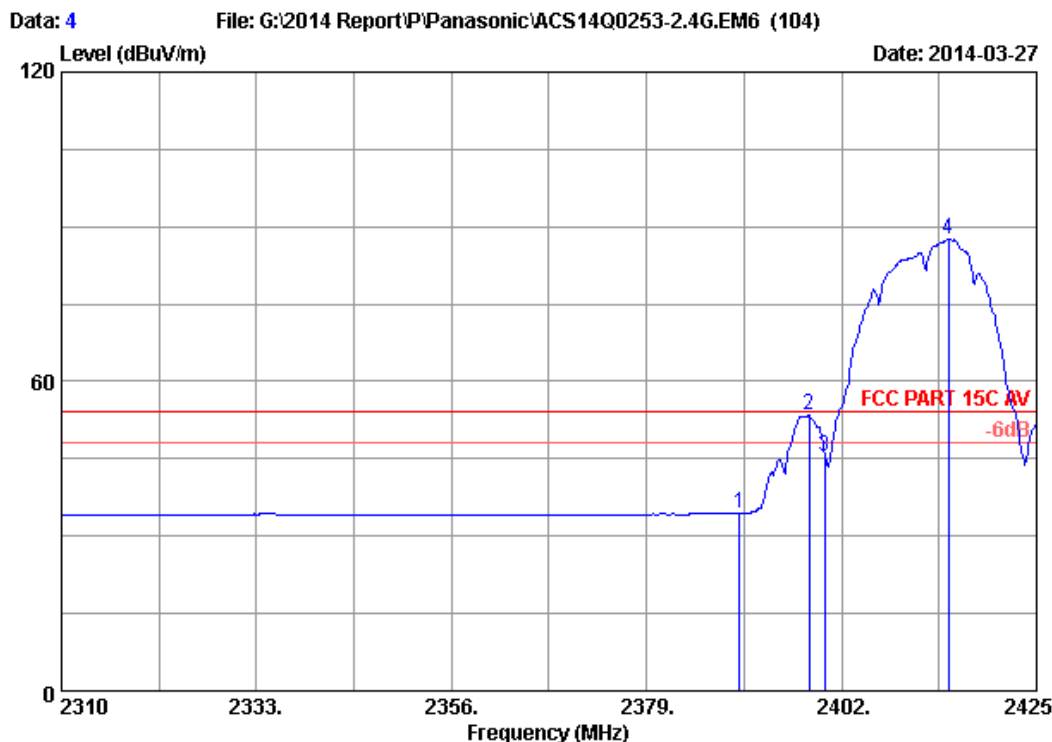
Pass (The testing data was attached in the next pages.)

2.4G:


Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	49.55	47.79	74.00	26.21	Peak
2	2397.055	28.17	5.79	35.70	61.06	59.32	74.00	14.68	Peak
3	2400.000	28.18	5.80	35.70	56.44	54.72	74.00	19.28	Peak
4	2413.845	28.21	5.82	35.70	92.66	90.99	74.00	-16.99	Peak

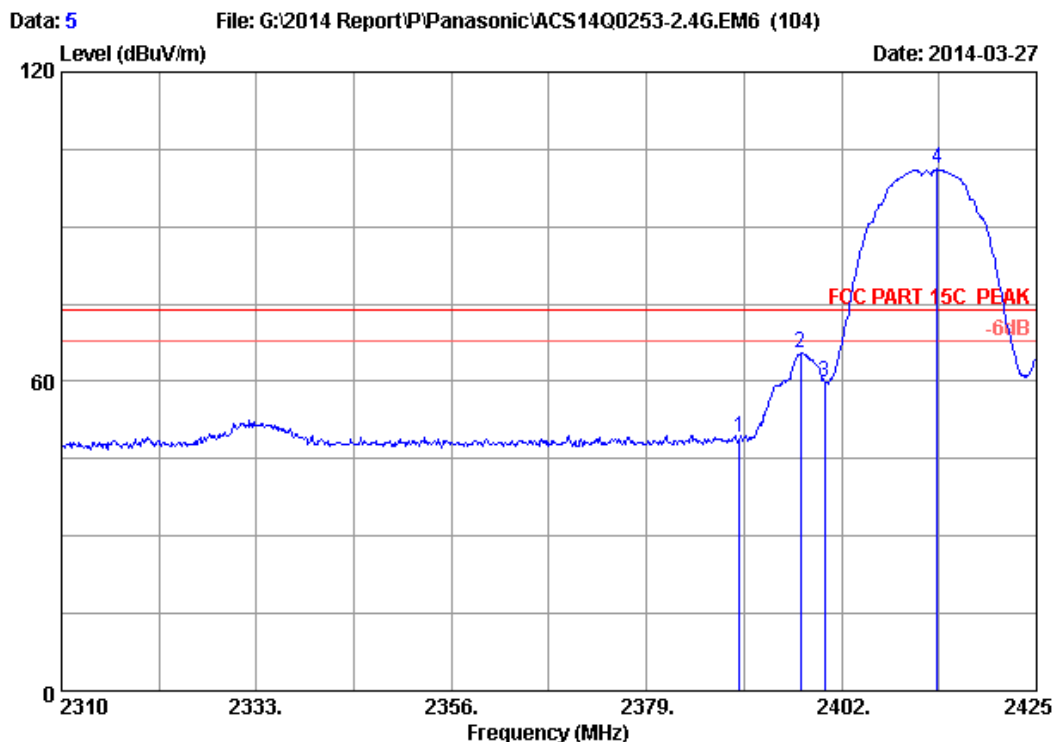
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	36.23	34.47	54.00	19.53	Average
2	2398.205	28.18	5.79	35.70	55.16	53.43	54.00	0.57	Average
3	2400.000	28.18	5.80	35.70	47.32	45.60	54.00	8.40	Average
4	2414.650	28.21	5.82	35.70	89.38	87.71	54.00	-33.71	Average

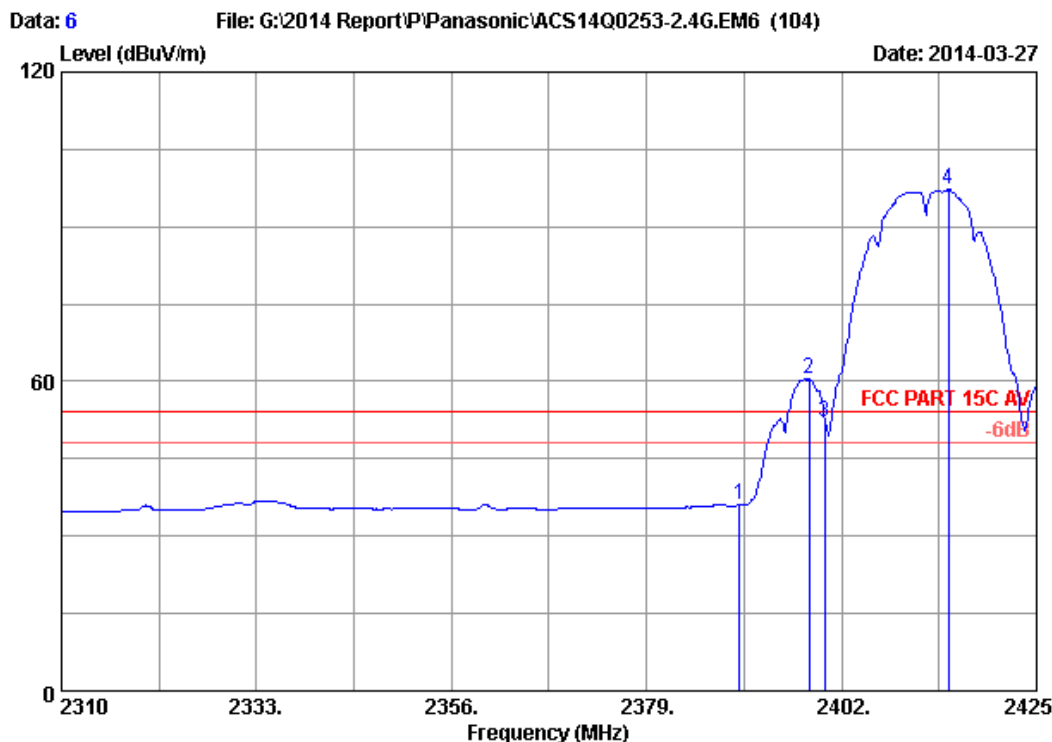
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	50.94	49.18	74.00	24.82	Peak
2	2397.170	28.17	5.79	35.70	67.23	65.49	74.00	8.51	Peak
3	2400.000	28.18	5.80	35.70	61.59	59.87	74.00	14.13	Peak
4	2413.270	28.21	5.82	35.70	102.79	101.12	74.00	-27.12	Peak

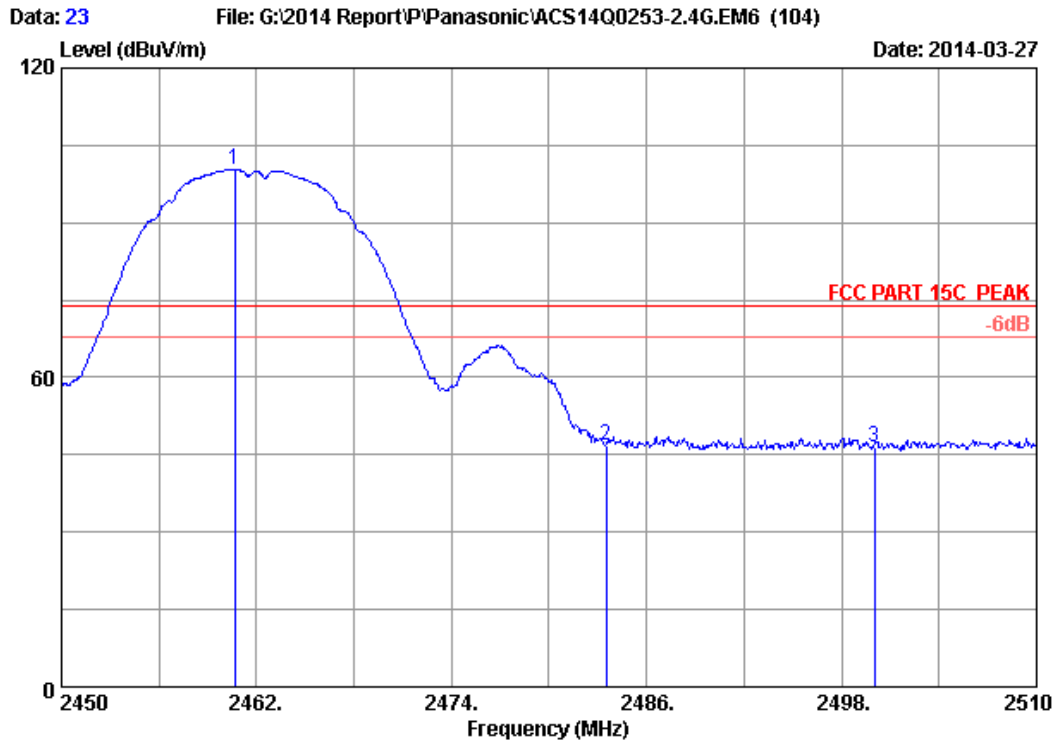
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11b 2412MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	37.72	35.96	54.00	18.04	Average
2	2398.205	28.18	5.79	35.70	62.16	60.43	54.00	-6.43	Average
3	2400.000	28.18	5.80	35.70	53.83	52.11	54.00	1.89	Average
4	2414.650	28.21	5.82	35.70	98.92	97.25	54.00	-43.25	Average

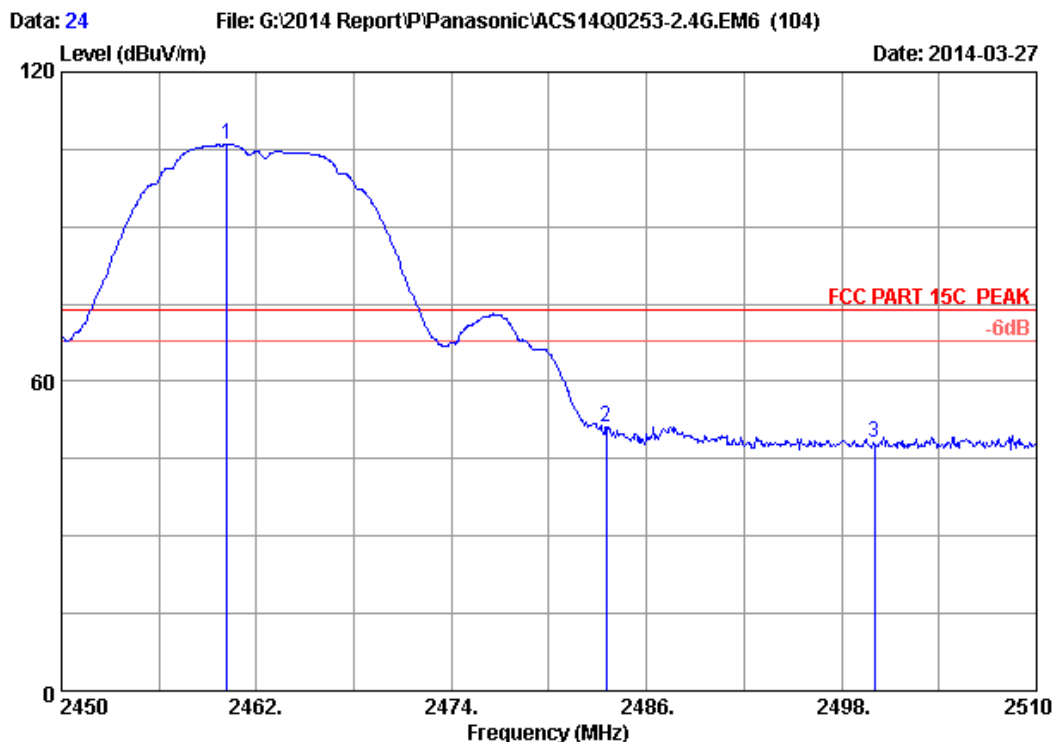
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2460.680	28.31	5.89	35.70	101.87	100.37	74.00	-26.37	Peak
2	2483.500	28.36	5.92	35.70	48.33	46.91	74.00	27.09	Peak
3	2500.000	28.40	5.94	35.70	47.97	46.61	74.00	27.39	Peak

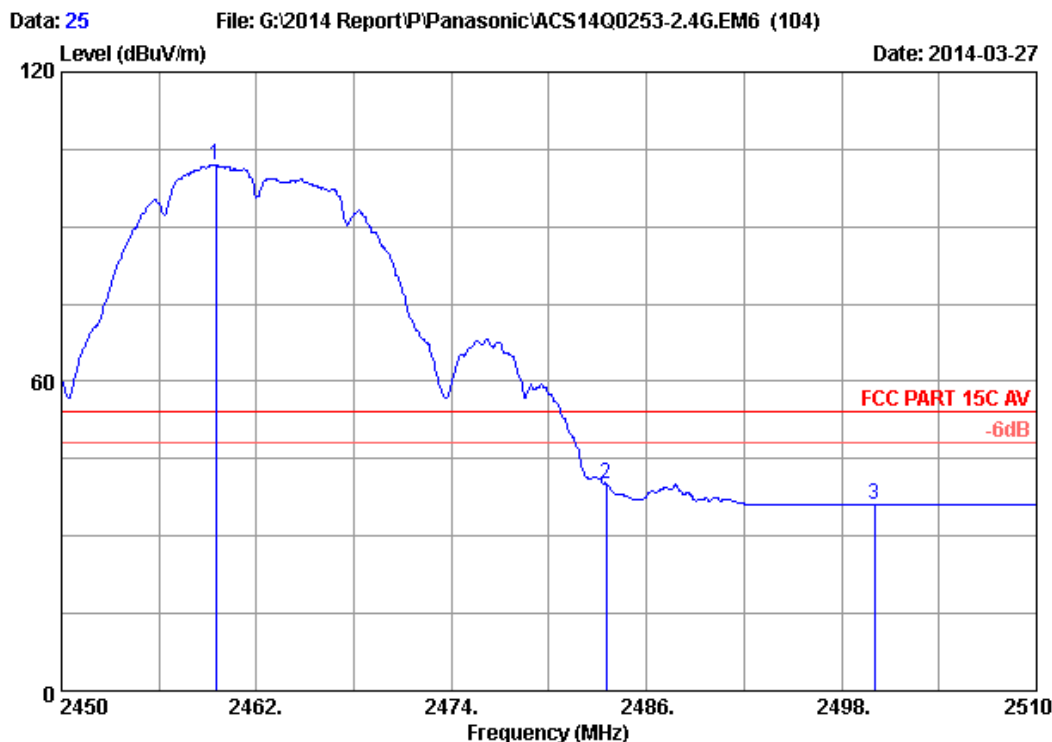
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.200	28.31	5.88	35.70	107.46	105.95	74.00	-31.95	Peak
2	2483.500	28.36	5.92	35.70	52.57	51.15	74.00	22.85	Peak
3	2500.000	28.40	5.94	35.70	49.33	47.97	74.00	26.03	Peak

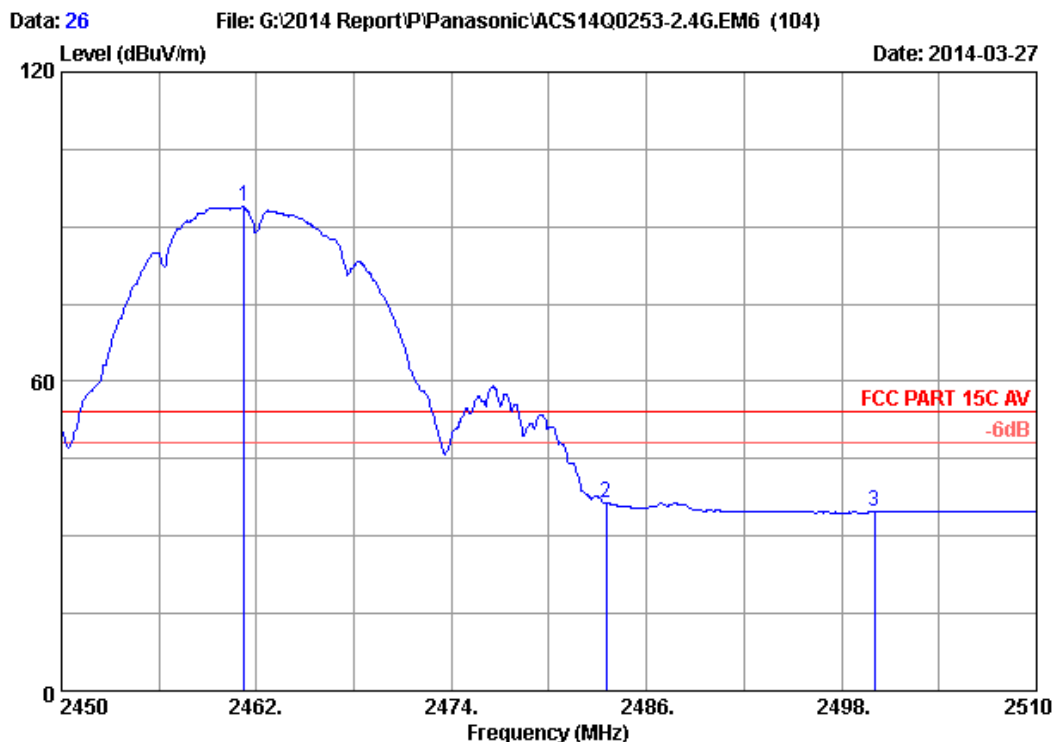
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.480	28.31	5.88	35.70	103.53	102.02	54.00	-48.02	Average
2	2483.500	28.36	5.92	35.70	41.53	40.11	54.00	13.89	Average
3	2500.000	28.40	5.94	35.70	37.53	36.17	54.00	17.83	Average

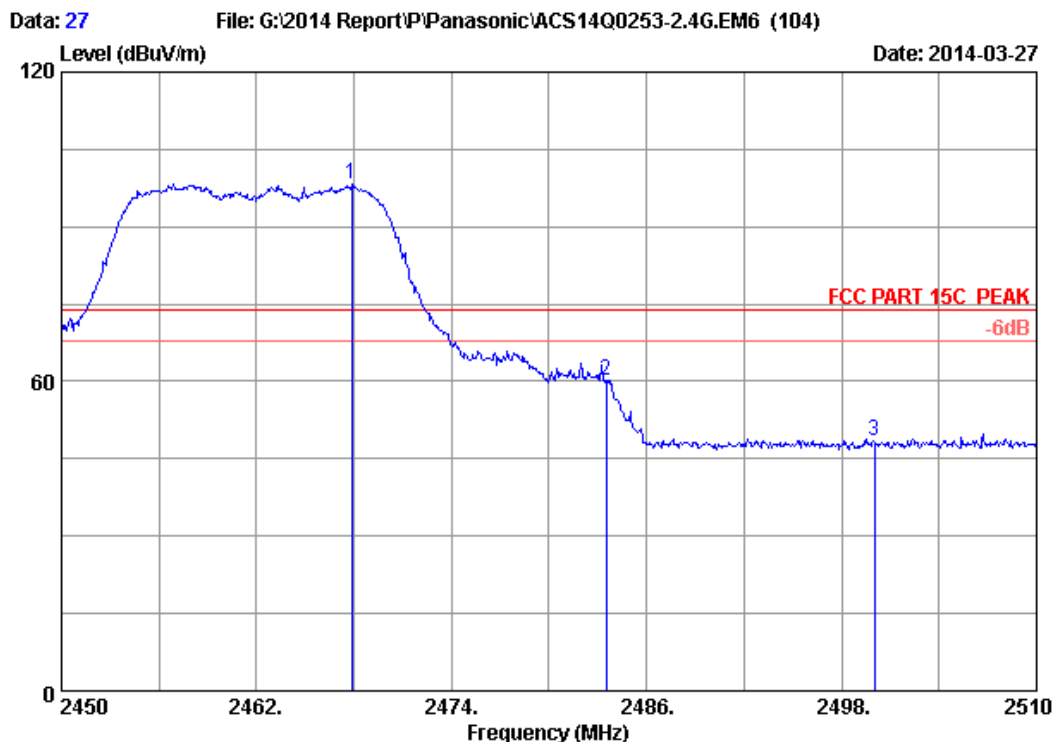
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11b 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	28.31	5.89	35.70	95.30	93.80	54.00	-39.80	Average
2	2483.500	28.36	5.92	35.70	37.85	36.43	54.00	17.57	Average
3	2500.000	28.40	5.94	35.70	35.98	34.62	54.00	19.38	Average

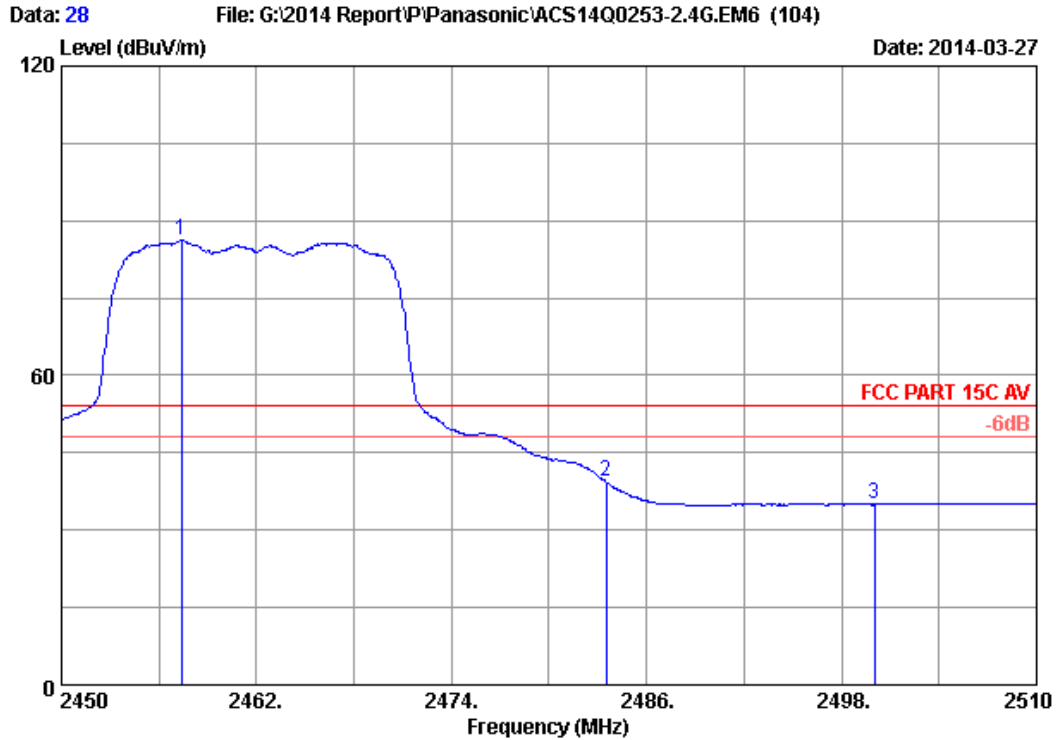
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 27
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11g 2462MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.880	28.33	5.90	35.70	99.60	98.13	74.00	-24.13	Peak
2	2483.500	28.36	5.92	35.70	61.61	60.19	74.00	13.81	Peak
3	2500.000	28.40	5.94	35.70	49.73	48.37	74.00	25.63	Peak

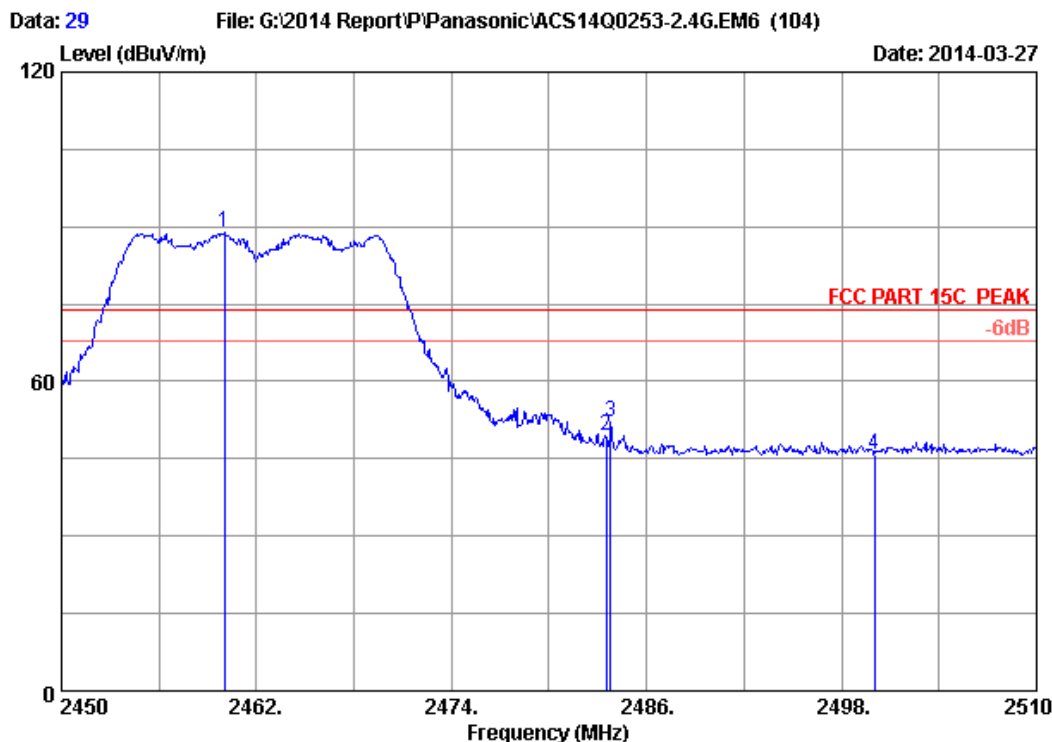
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.380	28.31	5.88	35.70	87.91	86.40	54.00	-32.40	Average
2	2483.500	28.36	5.92	35.70	40.82	39.40	54.00	14.60	Average
3	2500.000	28.40	5.94	35.70	36.31	34.95	54.00	19.05	Average

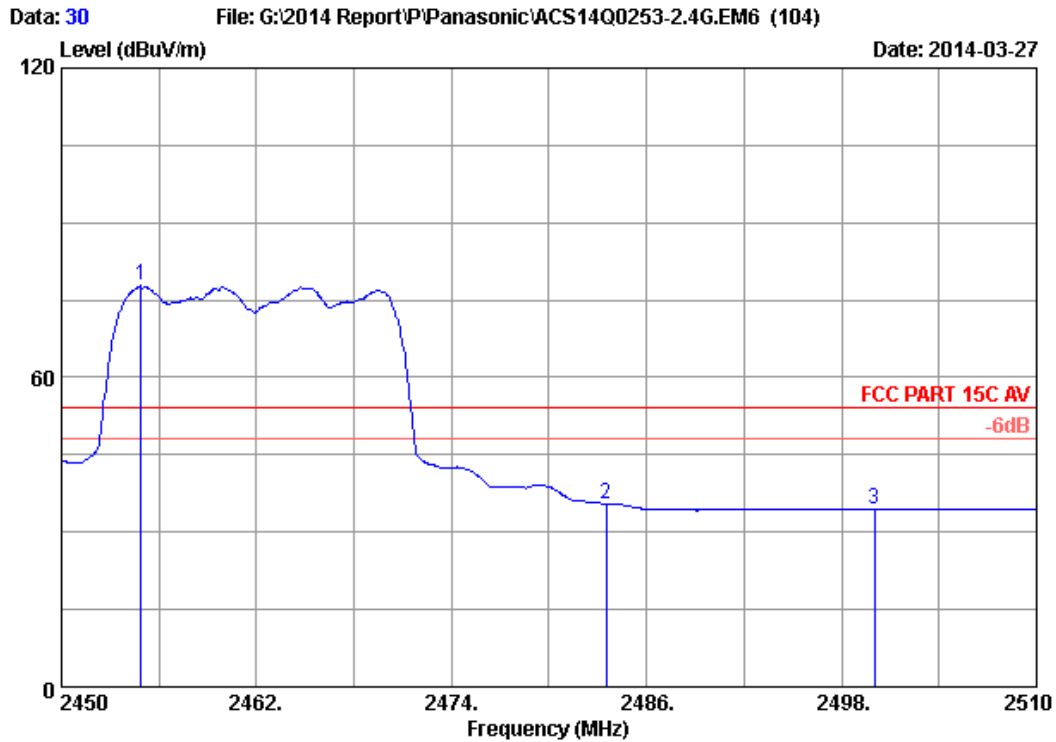
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.020	28.31	5.88	35.70	90.28	88.77	74.00	-14.77	Peak
2	2483.500	28.36	5.92	35.70	50.93	49.51	74.00	24.49	Peak
3	2483.780	28.36	5.92	35.70	53.52	52.10	74.00	21.90	Peak
4	2500.000	28.40	5.94	35.70	47.27	45.91	74.00	28.09	Peak

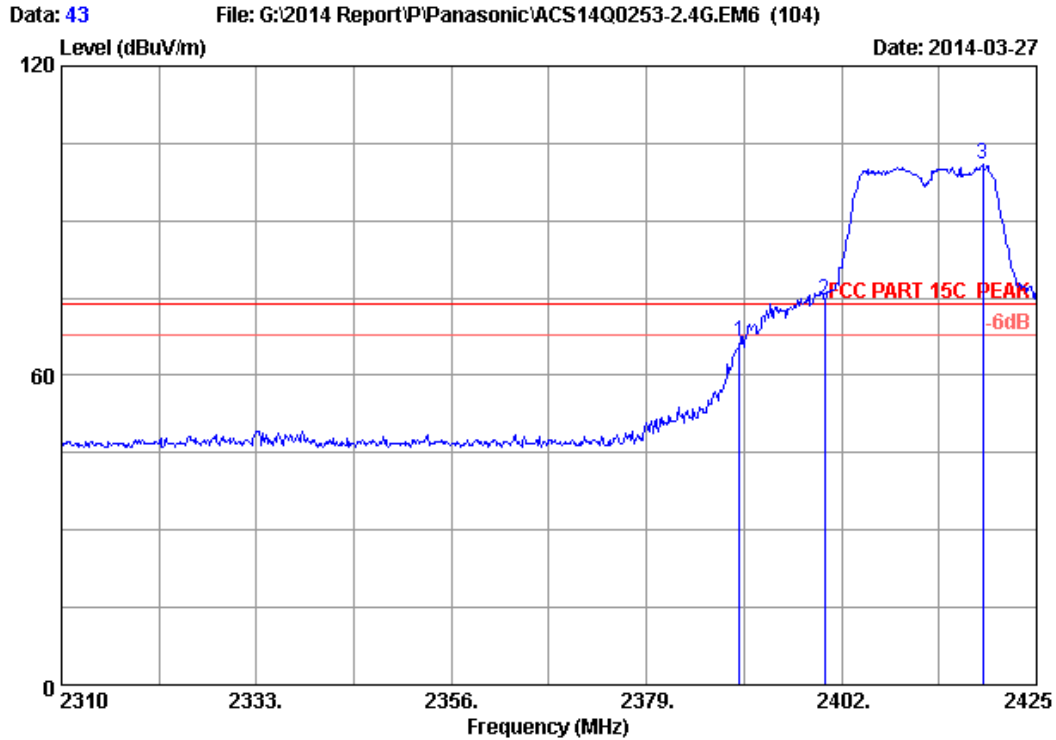
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.920	28.30	5.88	35.70	79.27	77.75	54.00	-23.75	Average
2	2483.500	28.36	5.92	35.70	36.85	35.43	54.00	18.57	Average
3	2500.000	28.40	5.94	35.70	35.75	34.39	54.00	19.61	Average

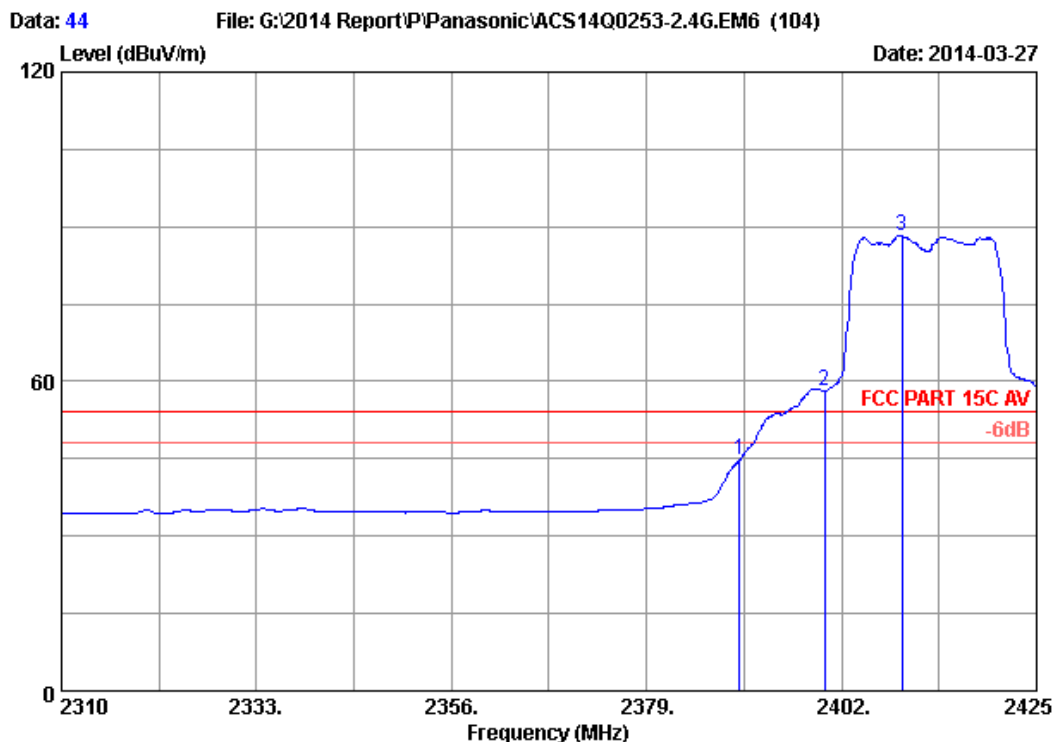
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	68.15	66.39	74.00	7.61	Peak
2	2400.000	28.18	5.80	35.70	76.40	74.68	74.00	-0.68	Peak
3	2418.675	28.22	5.82	35.70	102.66	101.00	74.00	-27.00	Peak

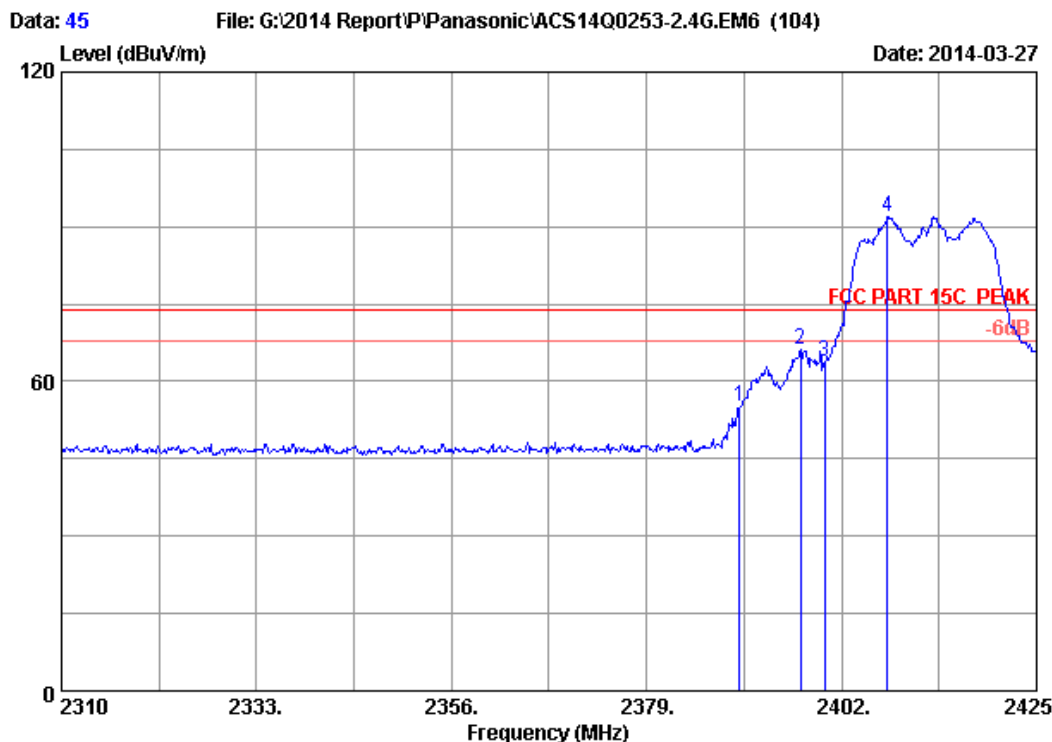
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	46.54	44.78	54.00	9.22	Average
2	2400.000	28.18	5.80	35.70	59.82	58.10	54.00	-4.10	Average
3	2409.130	28.20	5.81	35.70	90.02	88.33	54.00	-34.33	Average

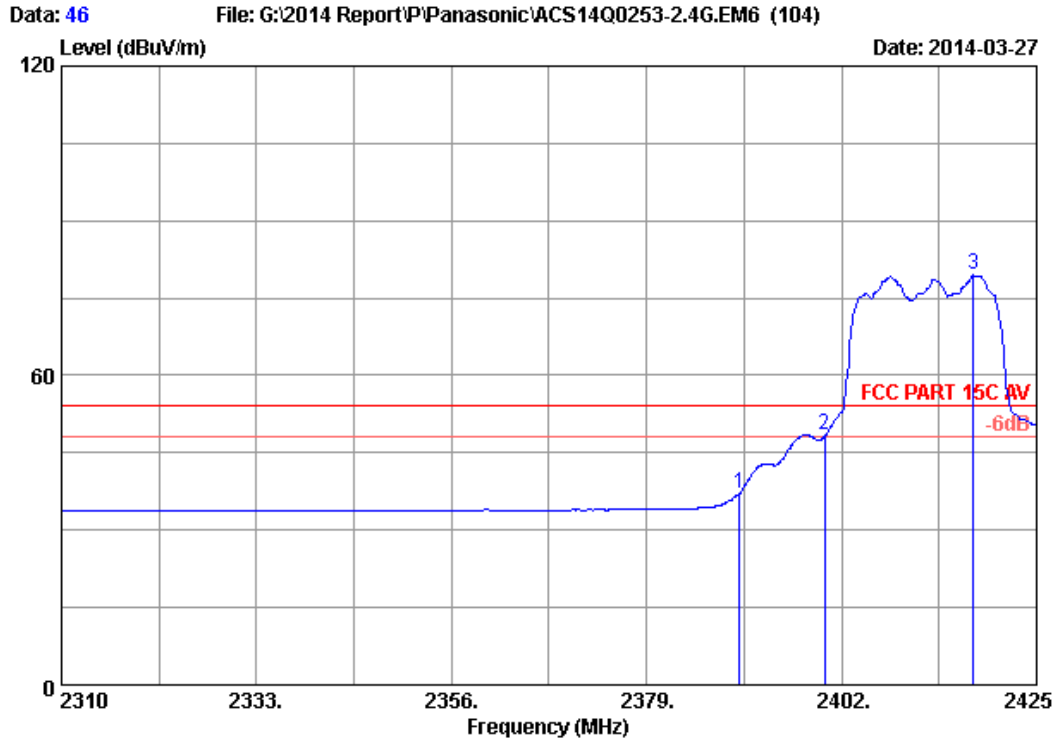
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	56.75	54.99	74.00	19.01	Peak
2	2397.170	28.17	5.79	35.70	67.81	66.07	74.00	7.93	Peak
3	2400.000	28.18	5.80	35.70	65.46	63.74	74.00	10.26	Peak
4	2407.405	28.20	5.81	35.70	93.69	92.00	74.00	-18.00	Peak

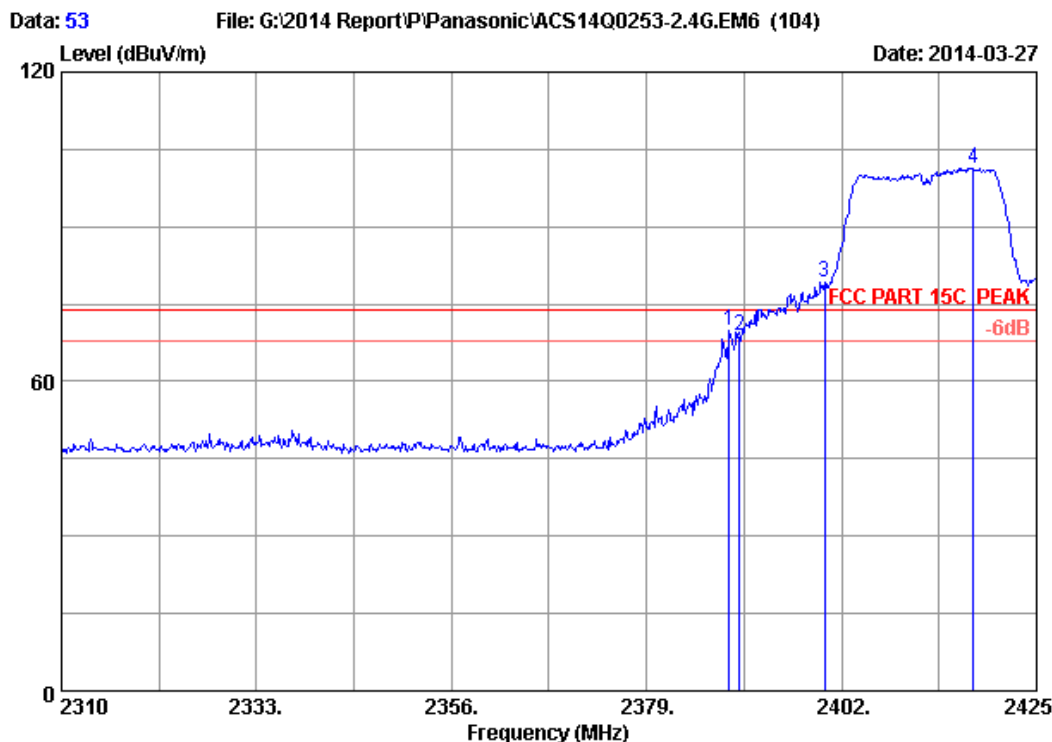
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11g 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	39.01	37.25	54.00	16.75	Average
2	2400.000	28.18	5.80	35.70	50.13	48.41	54.00	5.59	Average
3	2417.525	28.22	5.82	35.70	81.15	79.49	54.00	-25.49	Average

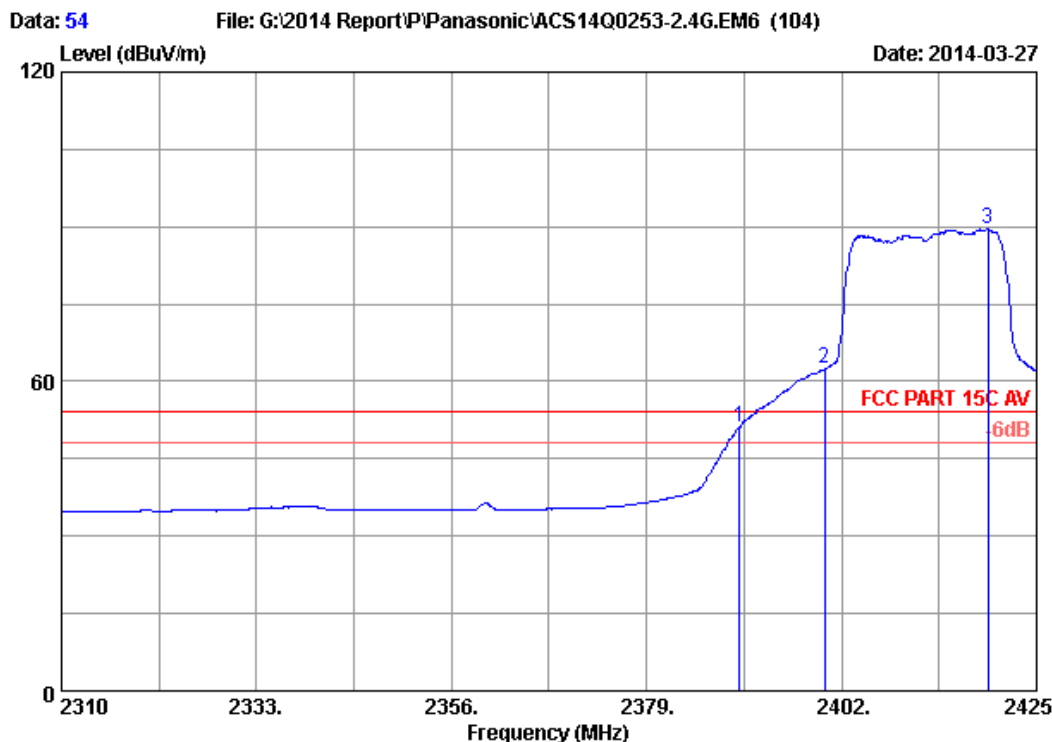
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.775	28.16	5.78	35.70	71.74	69.98	74.00	4.02	Peak
2	2390.000	28.16	5.78	35.70	70.55	68.79	74.00	5.21	Peak
3	2400.000	28.18	5.80	35.70	80.88	79.16	74.00	-5.16	Peak
4	2417.525	28.22	5.82	35.70	102.95	101.29	74.00	-27.29	Peak

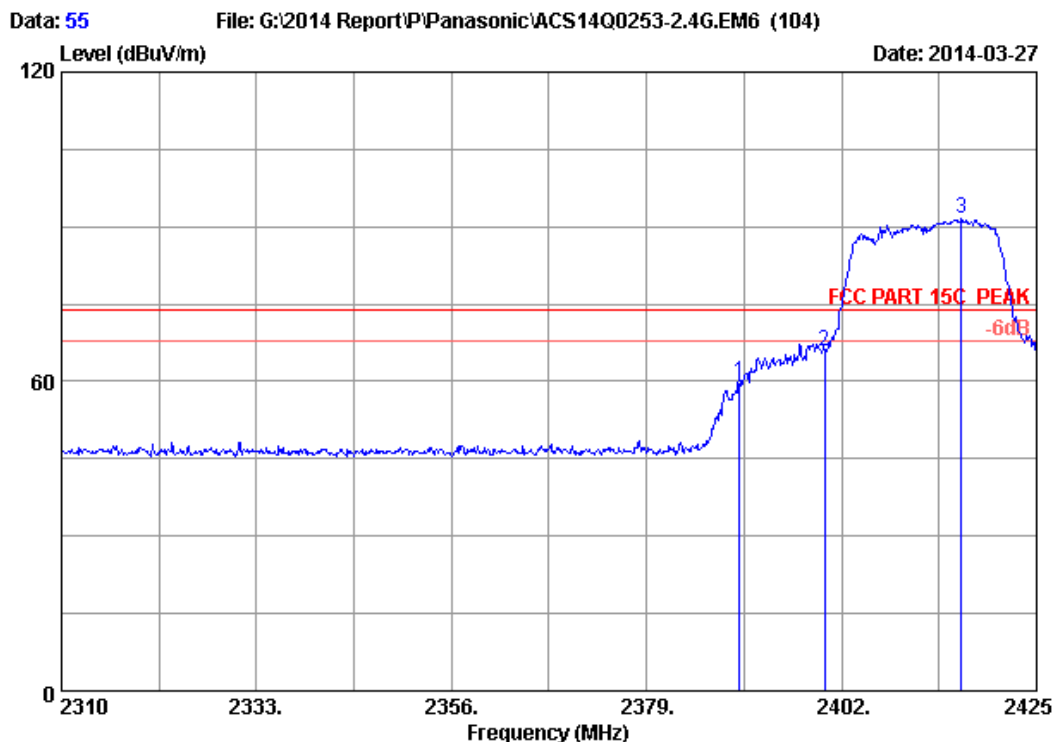
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 54
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	53.01	51.25	54.00	2.75	Average
2	2400.000	28.18	5.80	35.70	64.15	62.43	54.00	-8.43	Average
3	2419.250	28.22	5.83	35.70	91.20	89.55	54.00	-35.55	Average

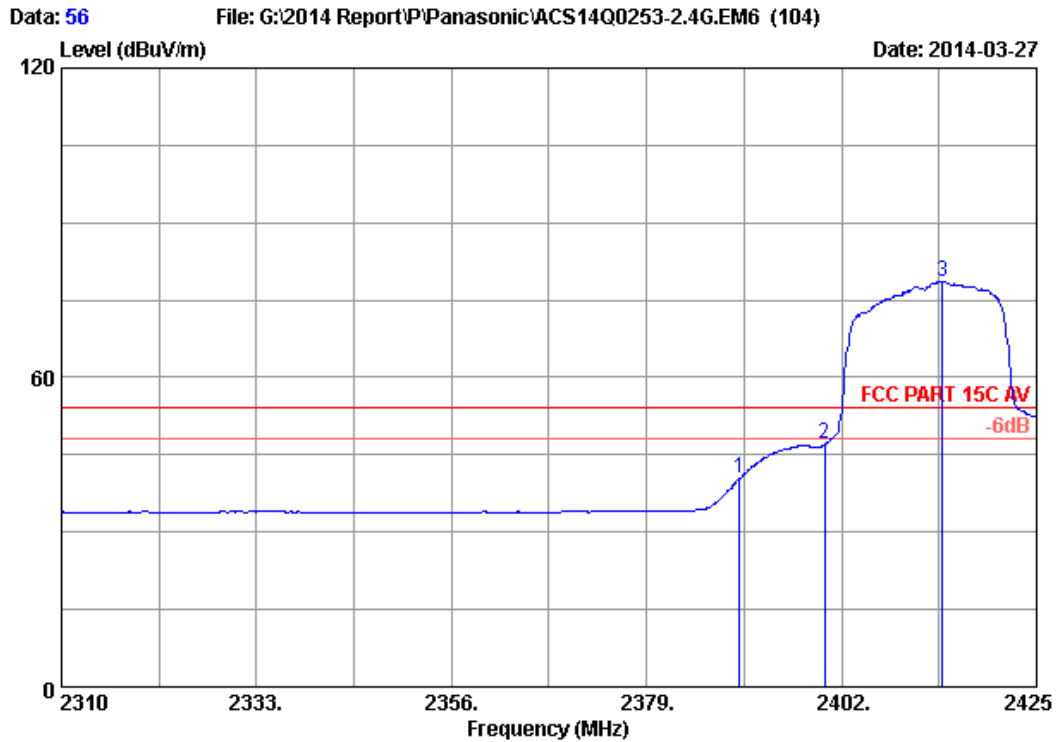
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 55
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	61.76	60.00	74.00	14.00	Peak
2	2400.000	28.18	5.80	35.70	67.66	65.94	74.00	8.06	Peak
3	2416.145	28.22	5.82	35.70	93.14	91.48	74.00	-17.48	Peak

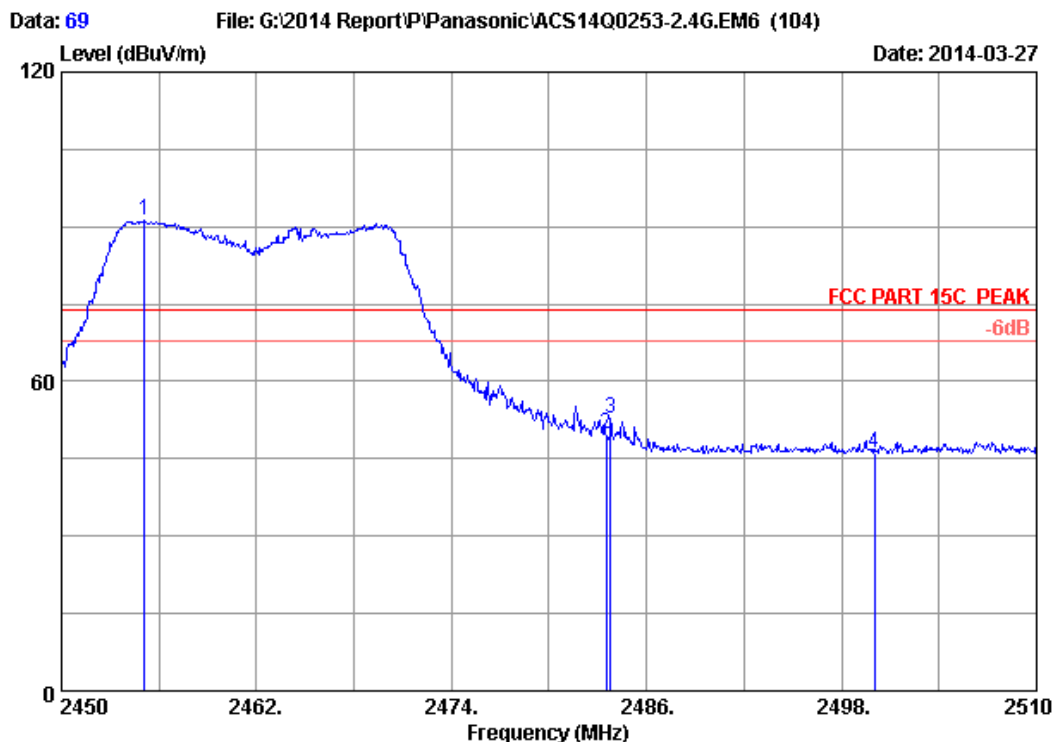
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2412MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	42.23	40.47	54.00	13.53	Average
2	2400.000	28.18	5.80	35.70	48.76	47.04	54.00	6.96	Average
3	2413.845	28.21	5.82	35.70	80.27	78.60	54.00	-24.60	Average

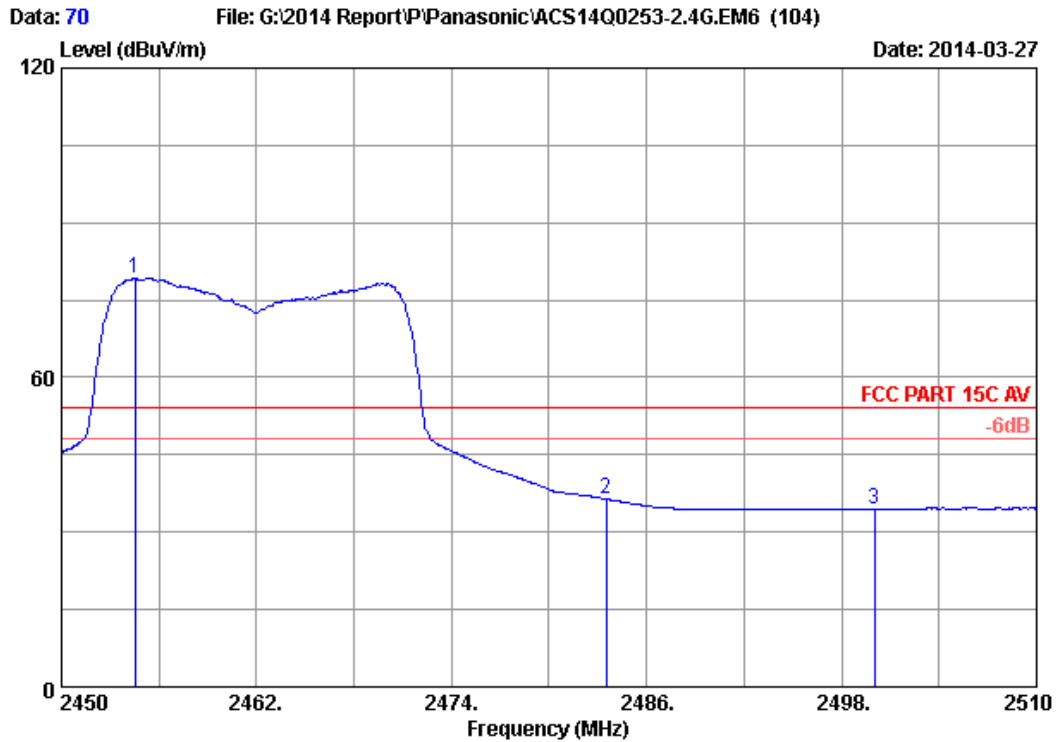
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 69
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.100	28.30	5.88	35.70	92.81	91.29	74.00	-17.29	Peak
2	2483.500	28.36	5.92	35.70	51.29	49.87	74.00	24.13	Peak
3	2483.780	28.36	5.92	35.70	54.12	52.70	74.00	21.30	Peak
4	2500.000	28.40	5.94	35.70	47.55	46.19	74.00	27.81	Peak

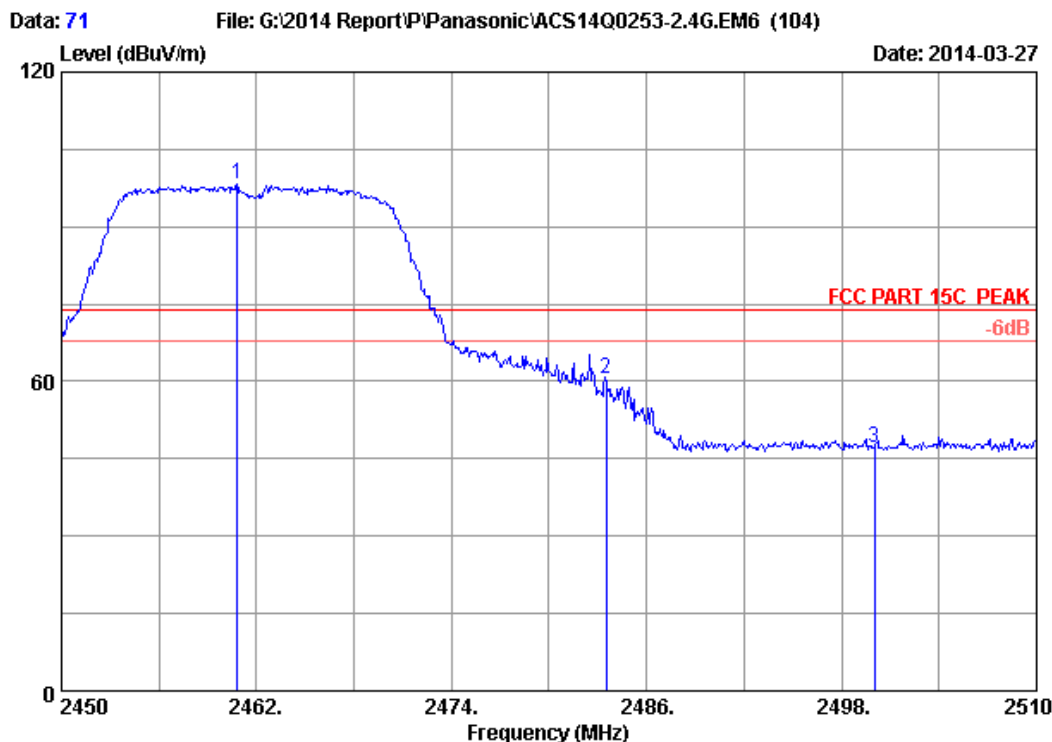
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2454.500	28.30	5.88	35.70	80.78	79.26	54.00	-25.26	Average
2	2483.500	28.36	5.92	35.70	37.86	36.44	54.00	17.56	Average
3	2500.000	28.40	5.94	35.70	35.86	34.50	54.00	19.50	Average

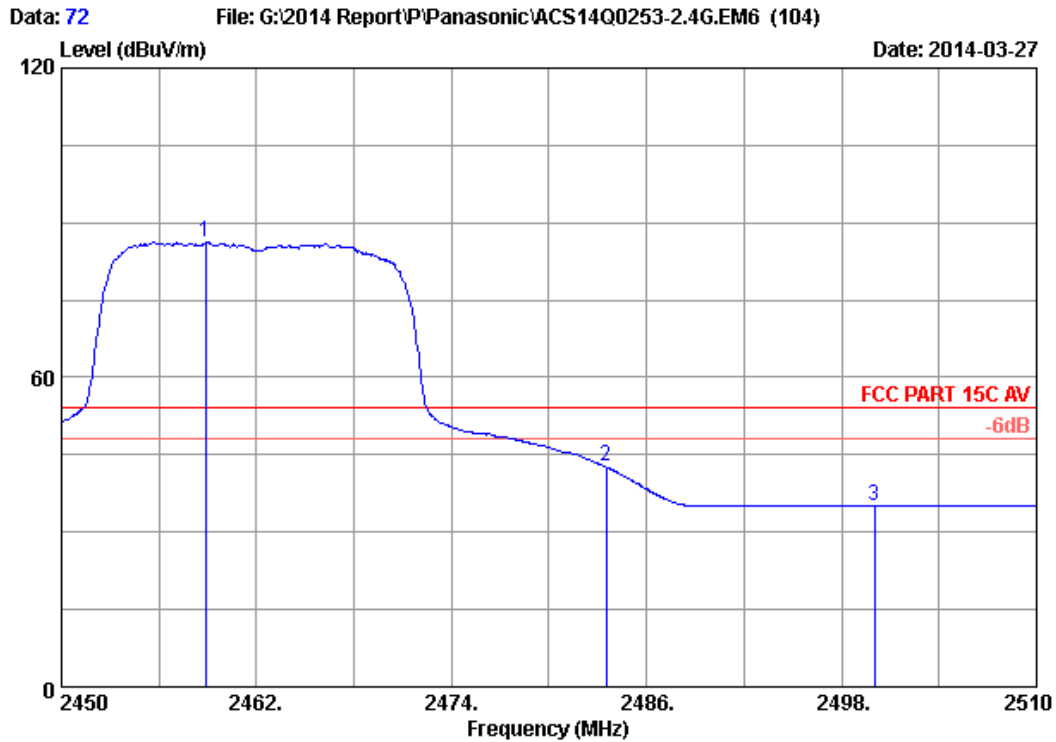
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 71
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT20 2462MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.800	28.31	5.89	35.70	99.61	98.11	74.00	-24.11	Peak
2	2483.500	28.36	5.92	35.70	61.84	60.42	74.00	13.58	Peak
3	2500.000	28.40	5.94	35.70	48.39	47.03	74.00	26.97	Peak

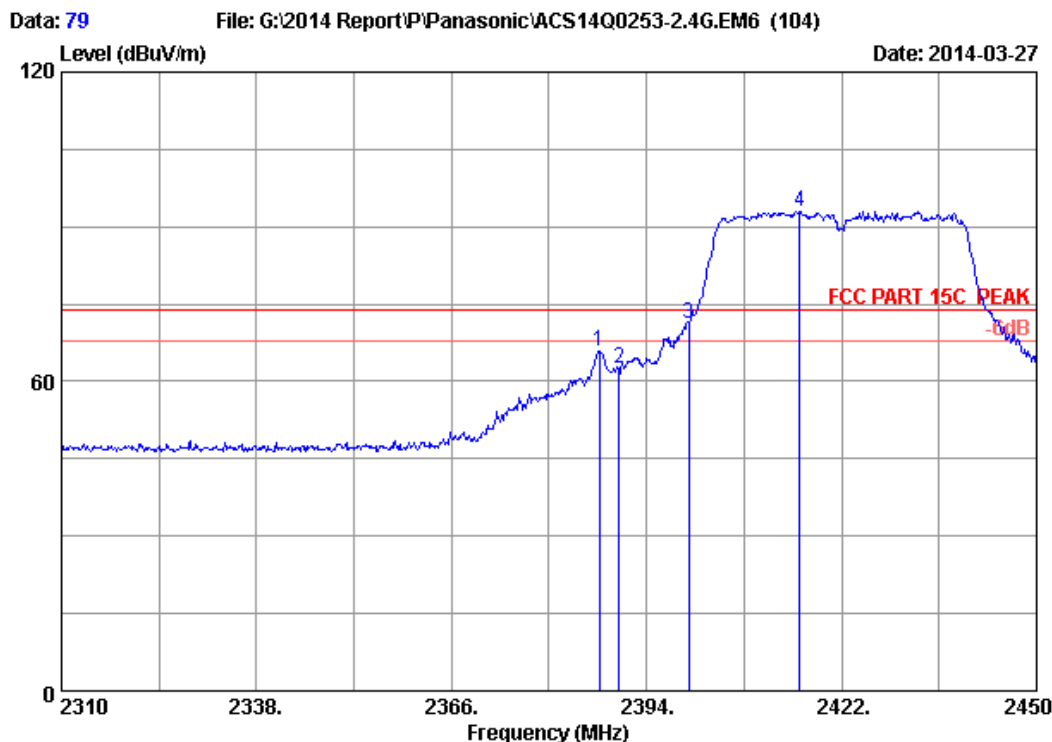
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 72
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 2462MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.880	28.31	5.88	35.70	87.77	86.26	54.00	-32.26	Average
2	2483.500	28.36	5.92	35.70	44.12	42.70	54.00	11.30	Average
3	2500.000	28.40	5.94	35.70	36.41	35.05	54.00	18.95	Average

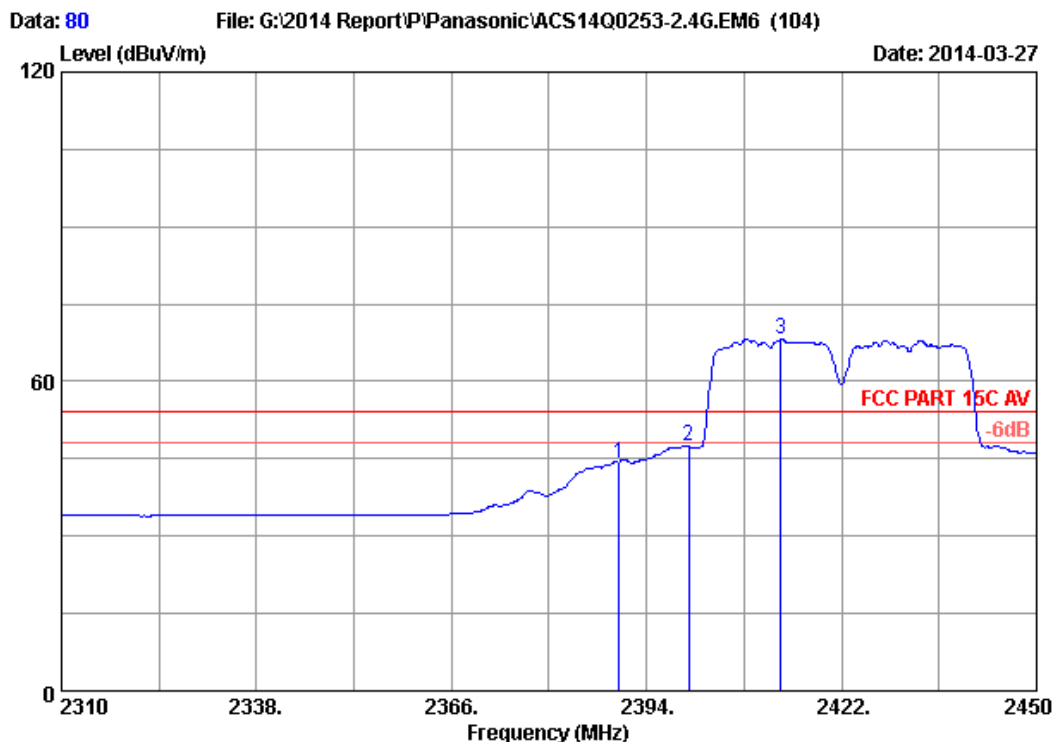
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2387.280	28.15	5.78	35.70	67.52	65.75	74.00	8.25	Peak
2	2390.000	28.16	5.78	35.70	64.30	62.54	74.00	11.46	Peak
3	2400.000	28.18	5.80	35.70	72.77	71.05	74.00	2.95	Peak
4	2415.980	28.22	5.82	35.70	94.72	93.06	74.00	-19.06	Peak

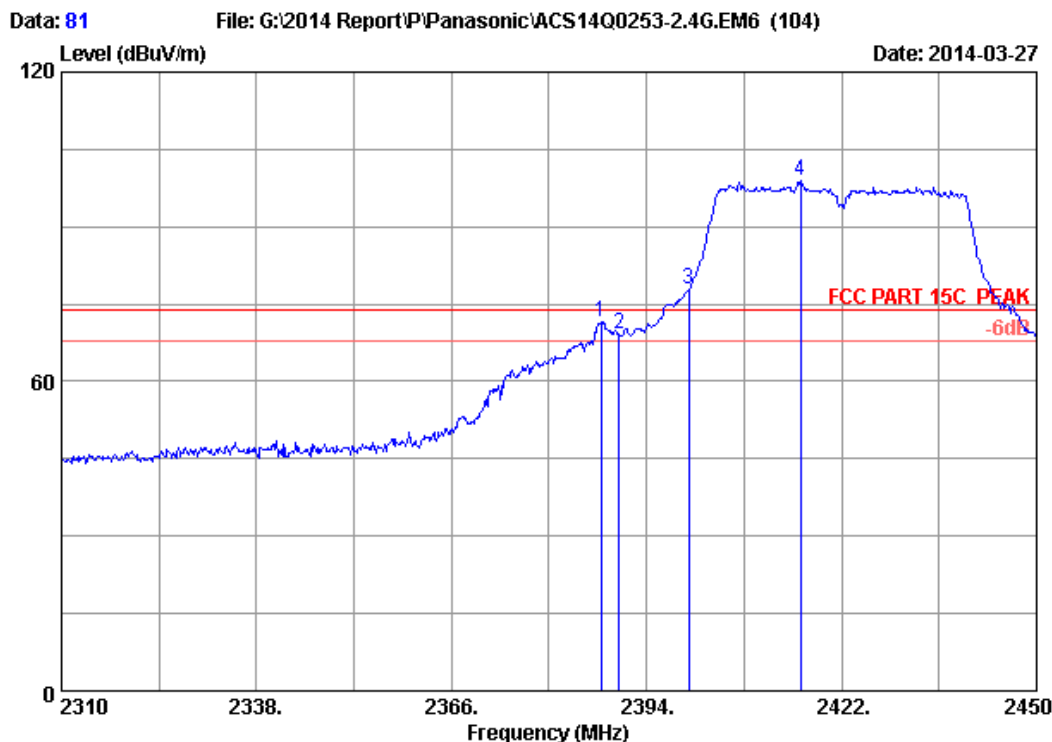
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	45.99	44.23	54.00	9.77	Average
2	2400.000	28.18	5.80	35.70	49.15	47.43	54.00	6.57	Average
3	2413.320	28.21	5.82	35.70	69.82	68.15	54.00	-14.15	Average

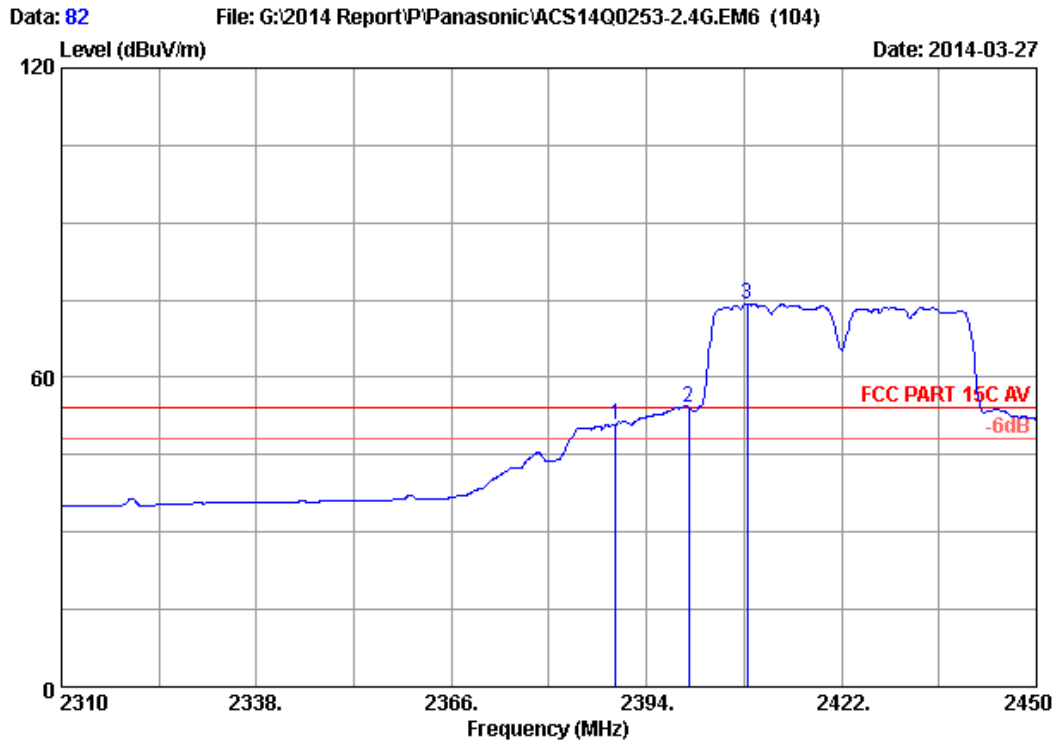
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2387.420	28.15	5.78	35.70	73.33	71.56	74.00	2.44	Peak
2	2390.000	28.16	5.78	35.70	71.06	69.30	74.00	4.70	Peak
3	2400.000	28.18	5.80	35.70	79.47	77.75	74.00	-3.75	Peak
4	2416.120	28.22	5.82	35.70	100.53	98.87	74.00	-24.87	Peak

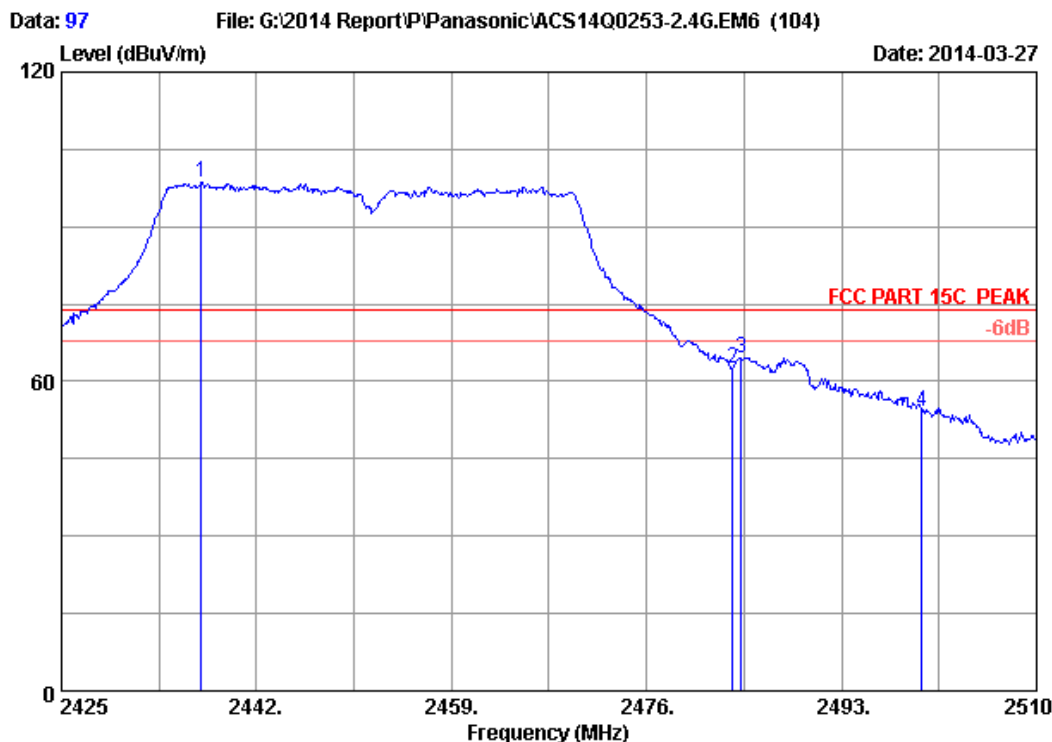
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2422MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2389.520	28.16	5.78	35.70	52.69	50.93	54.00	3.07	Average
2	2400.000	28.18	5.80	35.70	55.89	54.17	54.00	-0.17	Average
3	2408.420	28.20	5.81	35.70	75.94	74.25	54.00	-20.25	Average

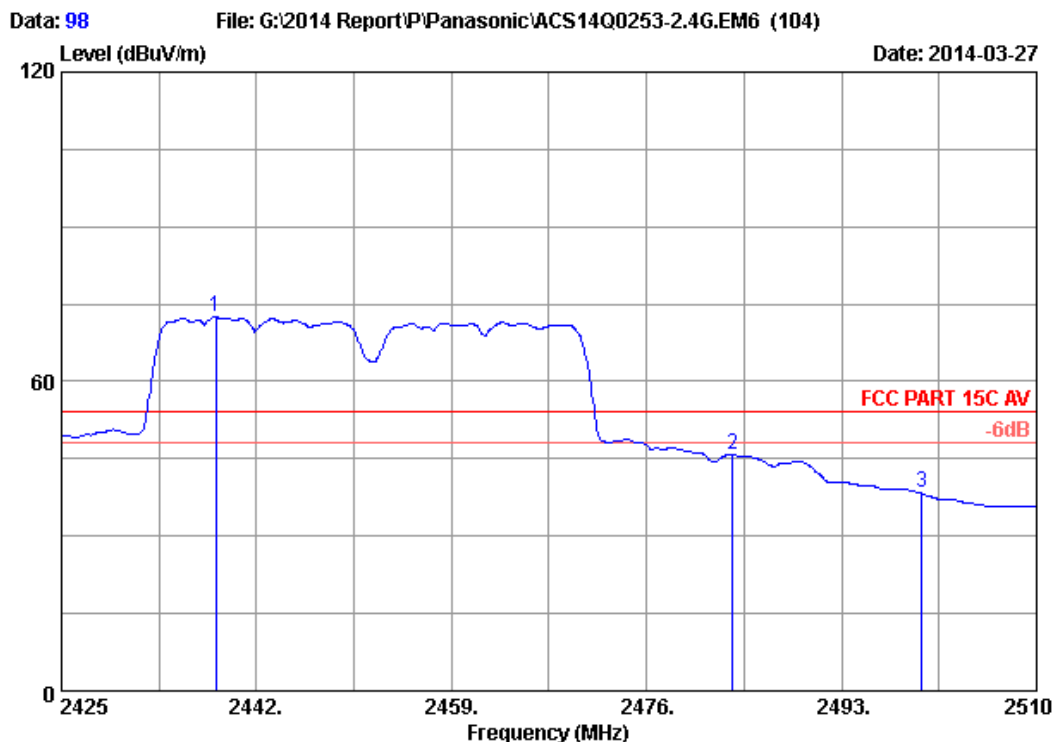
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.155	28.26	5.85	35.70	100.24	98.65	74.00	-24.65	Peak
2	2483.500	28.36	5.92	35.70	64.09	62.67	74.00	11.33	Peak
3	2484.245	28.37	5.92	35.70	66.05	64.64	74.00	9.36	Peak
4	2500.000	28.40	5.94	35.70	55.35	53.99	74.00	20.01	Peak

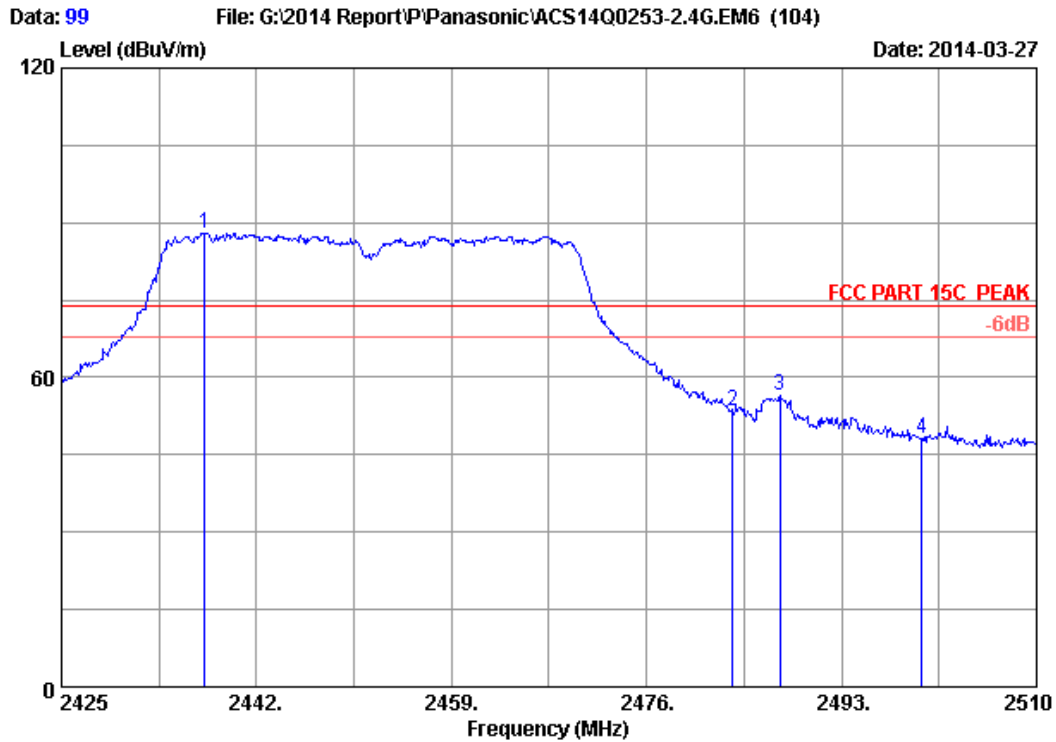
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2438.430	28.26	5.85	35.70	74.03	72.44	54.00	-18.44	Average
2	2483.500	28.36	5.92	35.70	47.31	45.89	54.00	8.11	Average
3	2500.000	28.40	5.94	35.70	39.66	38.30	54.00	15.70	Average

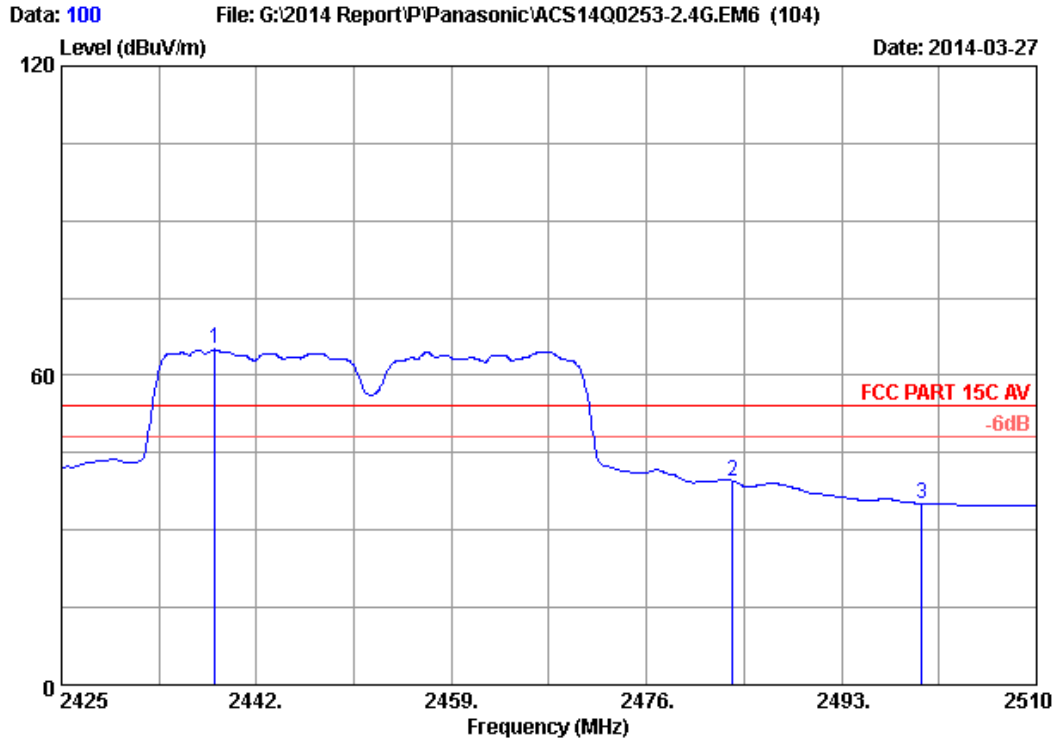
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 99
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 2452MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.495	28.26	5.85	35.70	89.62	88.03	74.00	-14.03	Peak
2	2483.500	28.36	5.92	35.70	54.89	53.47	74.00	20.53	Peak
3	2487.645	28.37	5.92	35.70	57.80	56.39	74.00	17.61	Peak
4	2500.000	28.40	5.94	35.70	49.49	48.13	74.00	25.87	Peak

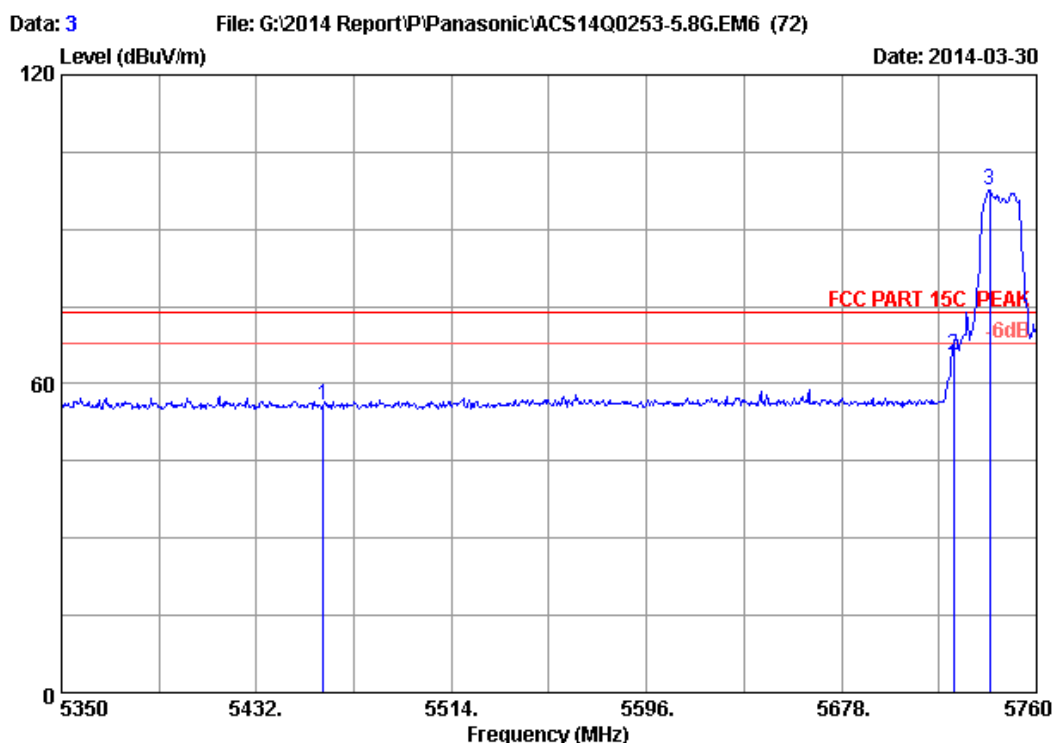
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 100
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 2452MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2438.345	28.26	5.85	35.70	66.61	65.02	54.00	-11.02	Average
2	2483.500	28.36	5.92	35.70	40.93	39.51	54.00	14.49	Average
3	2500.000	28.40	5.94	35.70	36.51	35.15	54.00	18.85	Average

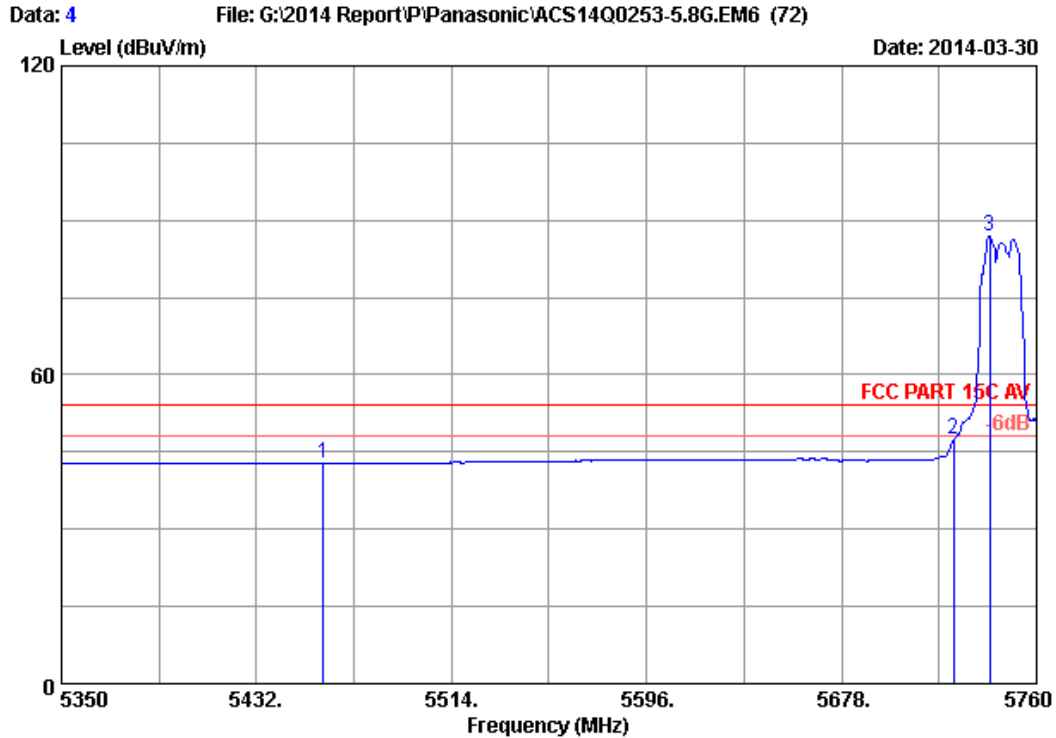
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

5.8G:


Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.32	55.81	74.00	18.19	Peak
2	5725.000	34.09	9.52	35.70	57.55	65.46	74.00	8.54	Peak
3	5740.320	34.10	9.54	35.70	89.81	97.75	74.00	-23.75	Peak

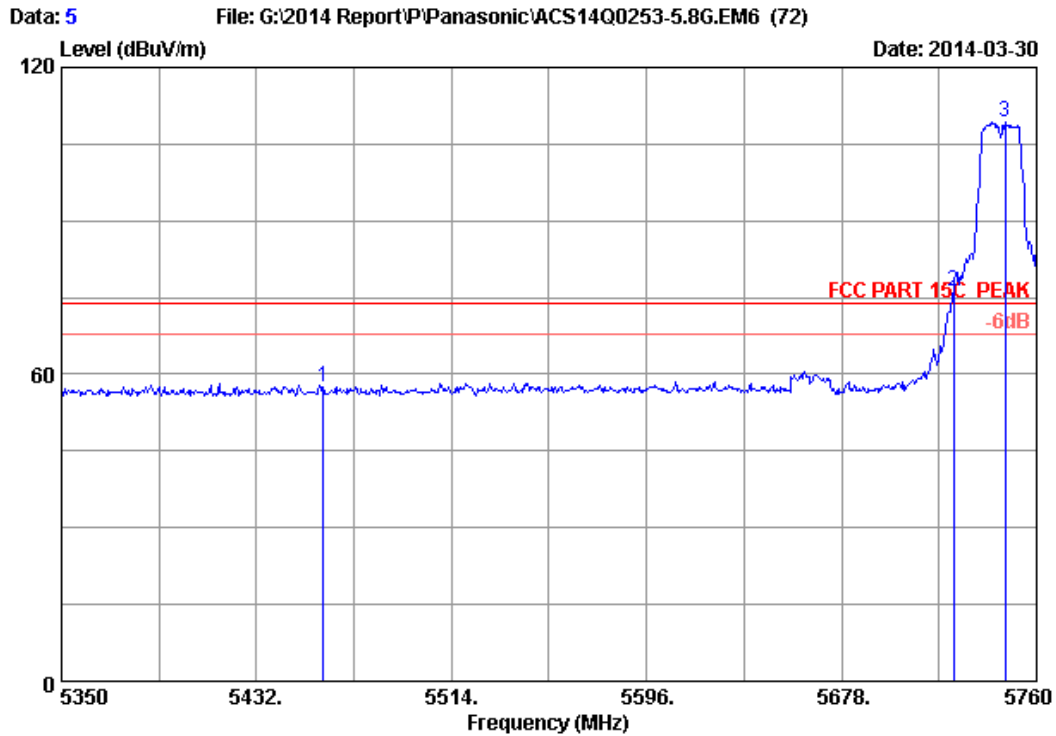
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.29	42.78	54.00	11.22	Average
2	5725.000	34.09	9.52	35.70	39.49	47.40	54.00	6.60	Average
3	5740.320	34.10	9.54	35.70	79.08	87.02	54.00	-33.02	Average

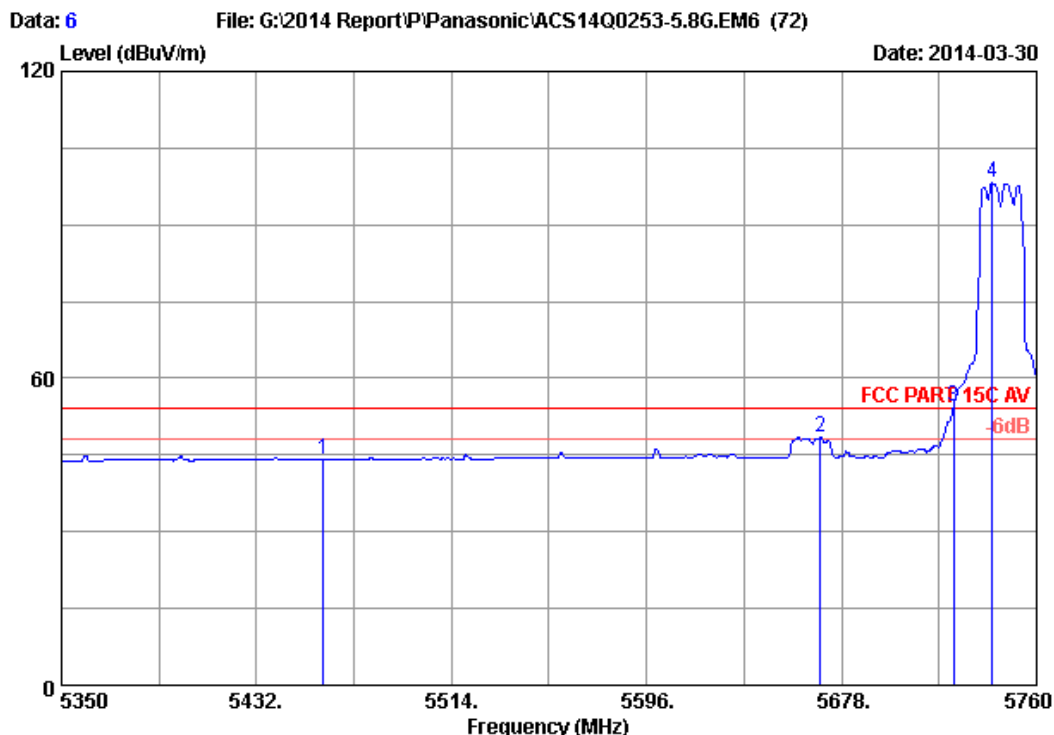
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	49.94	57.43	74.00	16.57	Peak
2	5725.000	34.09	9.52	35.70	68.41	76.32	74.00	-2.32	Peak
3	5746.880	34.10	9.55	35.70	101.28	109.23	74.00	-35.23	Peak

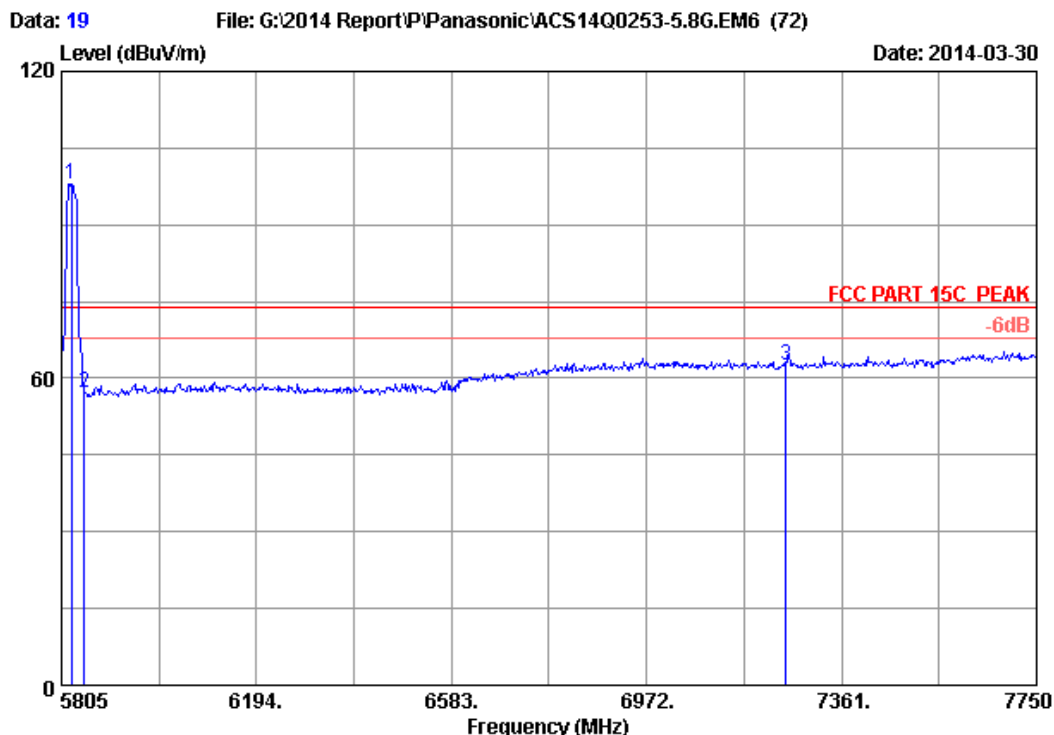
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5745MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	36.62	44.11	54.00	9.89	Average
2	5668.980	34.07	9.47	35.70	40.67	48.51	54.00	5.49	Average
3	5725.000	34.09	9.52	35.70	46.72	54.63	54.00	-0.63	Average
4	5741.550	34.10	9.54	35.70	90.19	98.13	54.00	-44.13	Average

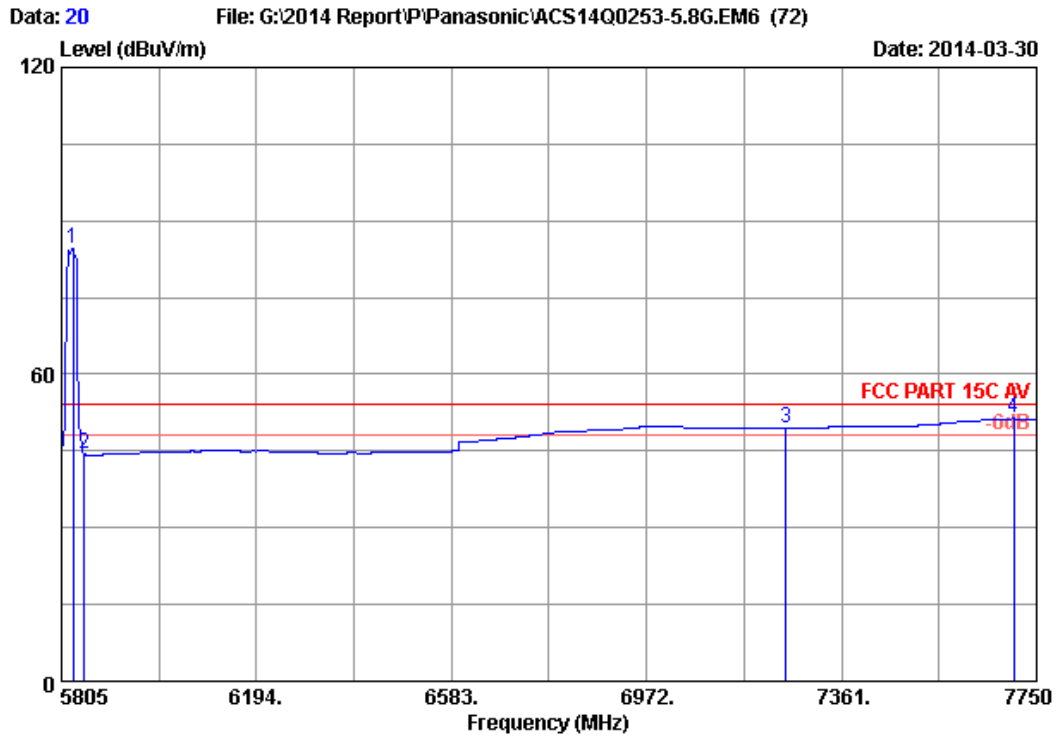
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 19
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5824.450	34.13	9.63	35.70	90.02	98.08	74.00	-24.08	Peak
2	5850.000	34.14	9.66	35.70	48.91	57.01	74.00	16.99	Peak
3	7250.000	36.05	10.99	35.45	51.01	62.60	74.00	11.40	Peak

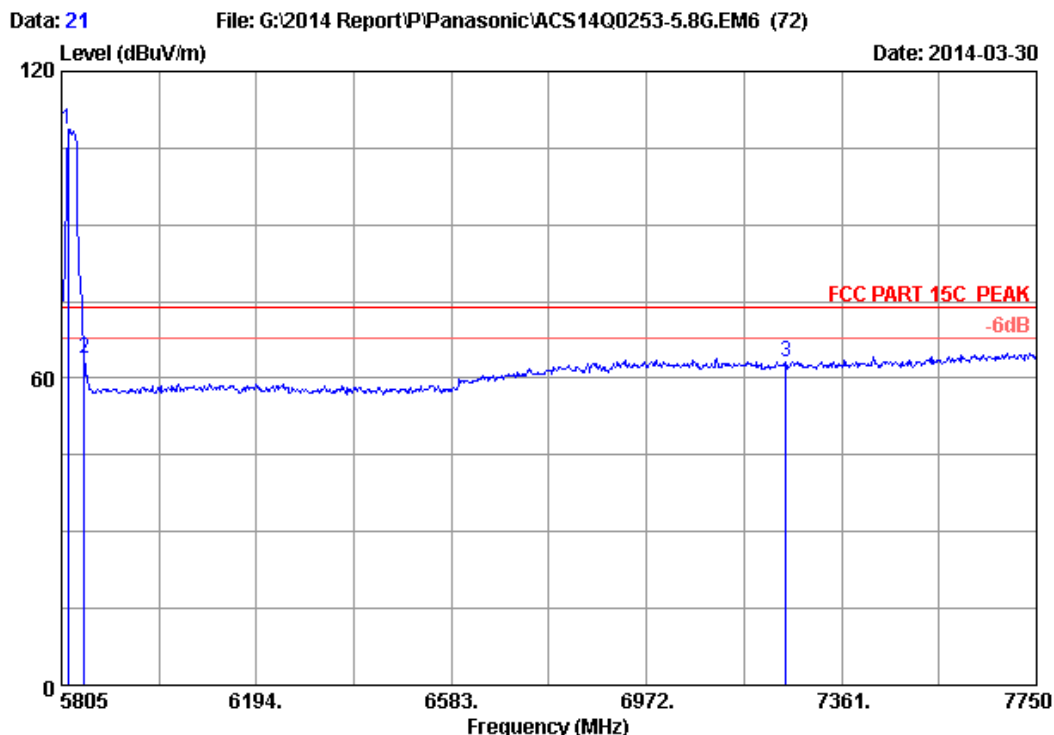
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5828.340	34.13	9.63	35.70	76.48	84.54	54.00	-30.54	Average
2	5850.000	34.14	9.66	35.70	36.40	44.50	54.00	9.50	Average
3	7250.000	36.05	10.99	35.45	37.98	49.57	54.00	4.43	Average
4	7705.265	36.81	11.23	35.36	38.66	51.34	54.00	2.66	Average

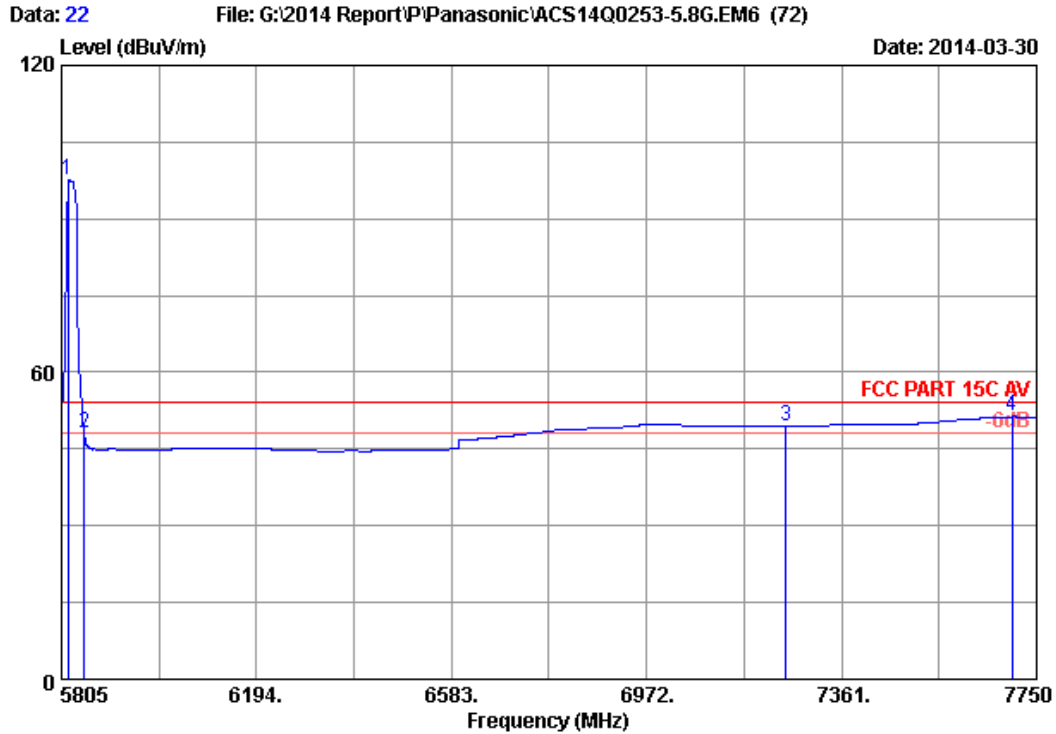
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 21
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11a 5825MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant.	Cable	AMP	Reading (dBuV)	Emission		Margin	Remark
		Factor (dB/m)	Loss (dB)	factor (dB)		Level (dBuV/m)	Limits (dBuV/m)		
1	5818.615	34.13	9.62	35.70	100.59	108.64	74.00	-34.64	Peak
2	5850.000	34.14	9.66	35.70	55.63	63.73	74.00	10.27	Peak
3	7250.000	36.05	10.99	35.45	51.53	63.12	74.00	10.88	Peak

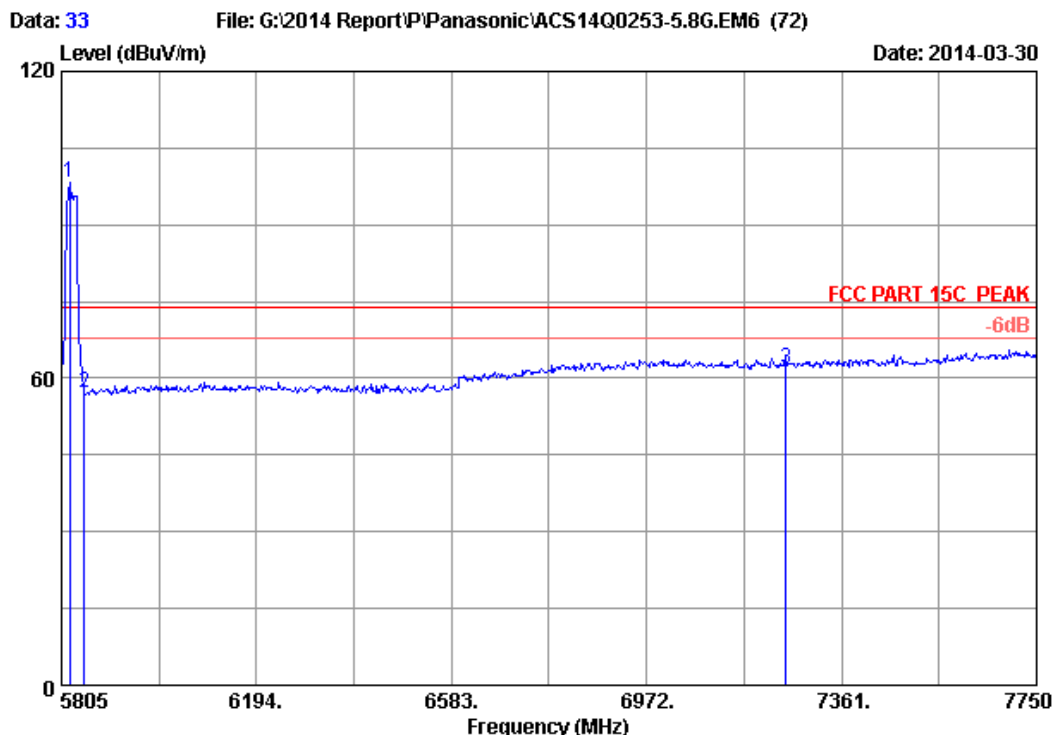
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11a 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5818.615	34.13	9.62	35.70	89.63	97.68	54.00	-43.68	Average
2	5850.000	34.14	9.66	35.70	39.93	48.03	54.00	5.97	Average
3	7250.000	36.05	10.99	35.45	38.00	49.59	54.00	4.41	Average
4	7701.375	36.80	11.23	35.36	38.67	51.34	54.00	2.66	Average

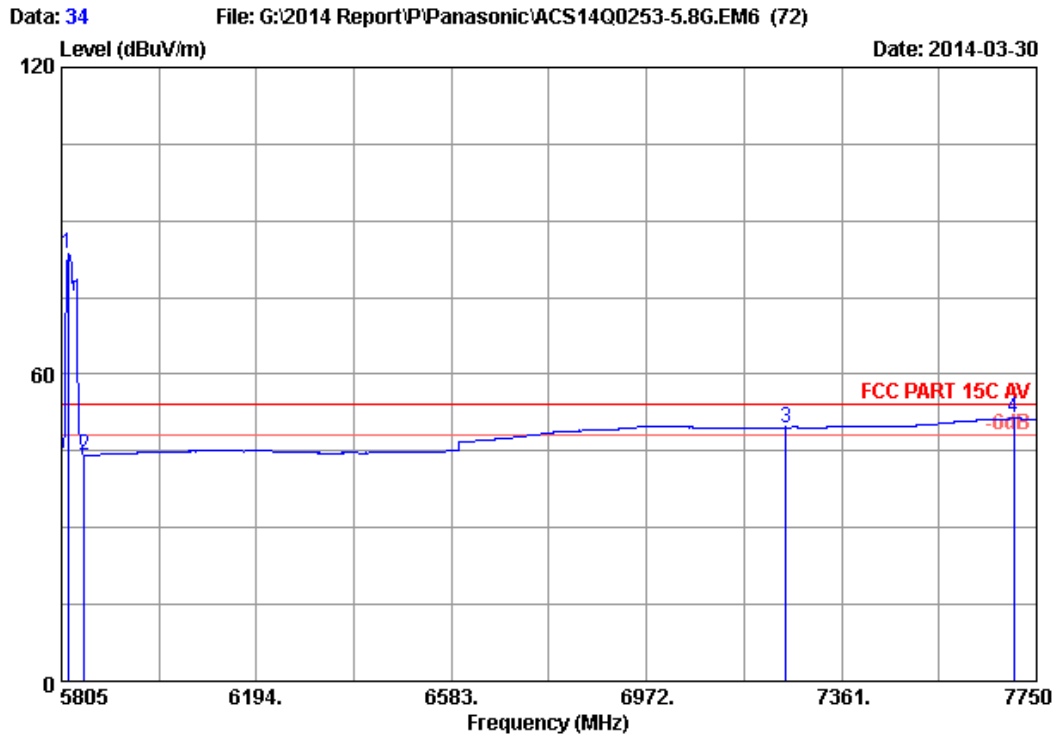
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5820.560	34.13	9.62	35.70	90.11	98.16	74.00	-24.16	Peak
2	5850.000	34.14	9.66	35.70	49.13	57.23	74.00	16.77	Peak
3	7250.000	36.05	10.99	35.45	50.37	61.96	74.00	12.04	Peak

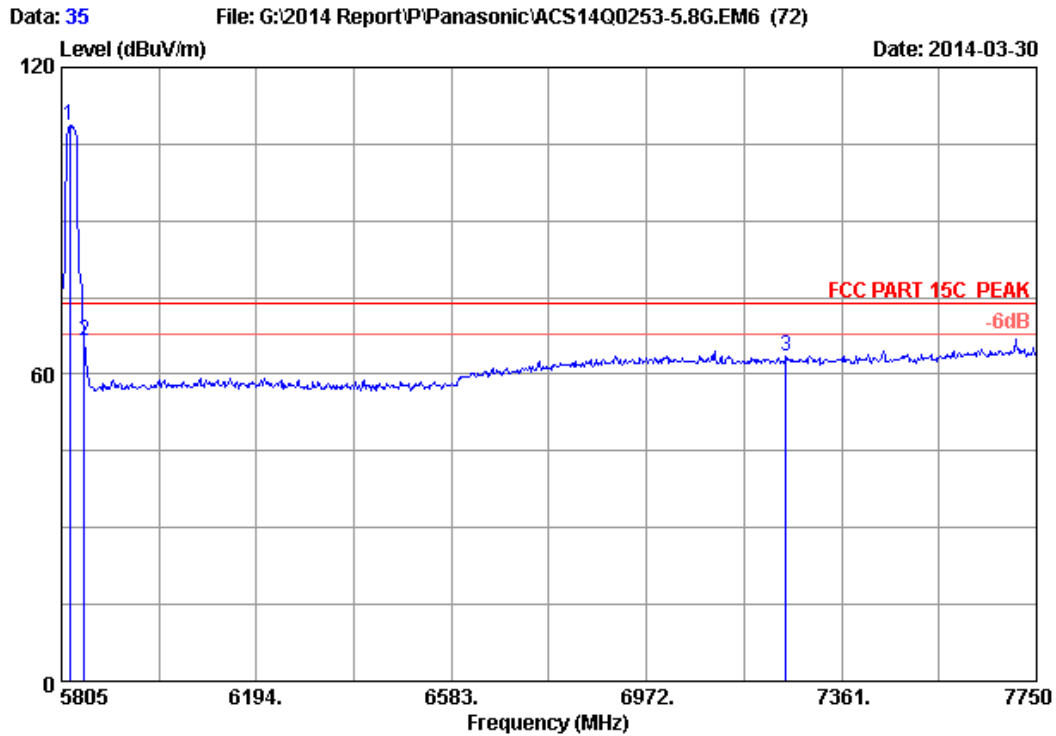
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5818.615	34.13	9.62	35.70	75.42	83.47	54.00	-29.47	Average
2	5850.000	34.14	9.66	35.70	35.95	44.05	54.00	9.95	Average
3	7250.000	36.05	10.99	35.45	38.03	49.62	54.00	4.38	Average
4	7705.265	36.81	11.23	35.36	38.68	51.36	54.00	2.64	Average

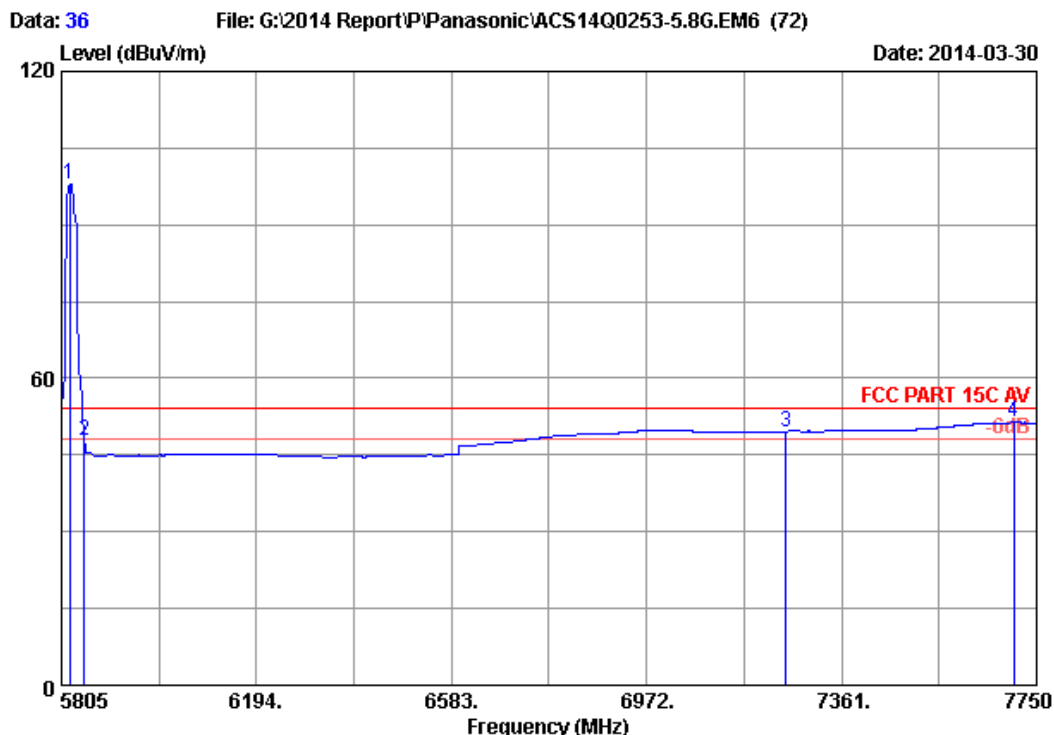
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5820.560	34.13	9.62	35.70	100.70	108.75	74.00	-34.75	Peak
2	5850.000	34.14	9.66	35.70	58.44	66.54	74.00	7.46	Peak
3	7250.000	36.05	10.99	35.45	51.83	63.42	74.00	10.58	Peak

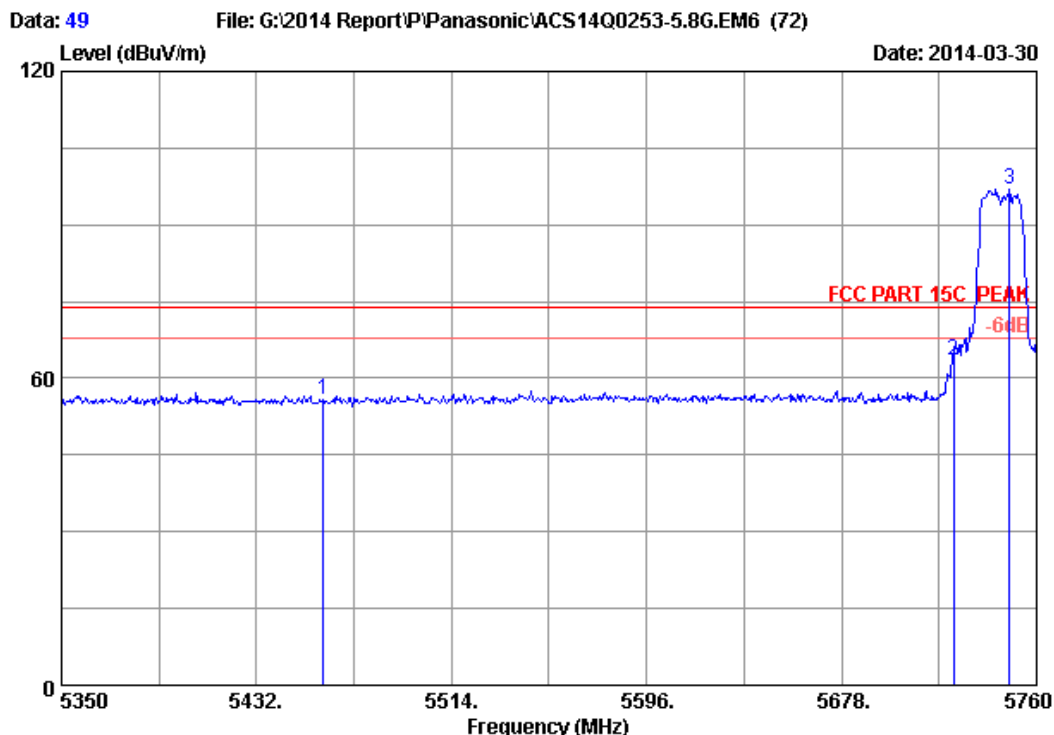
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5825MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5820.560	34.13	9.62	35.70	89.88	97.93	54.00	-43.93	Average
2	5850.000	34.14	9.66	35.70	39.62	47.72	54.00	6.28	Average
3	7250.000	36.05	10.99	35.45	38.04	49.63	54.00	4.37	Average
4	7705.265	36.81	11.23	35.36	38.69	51.37	54.00	2.63	Average

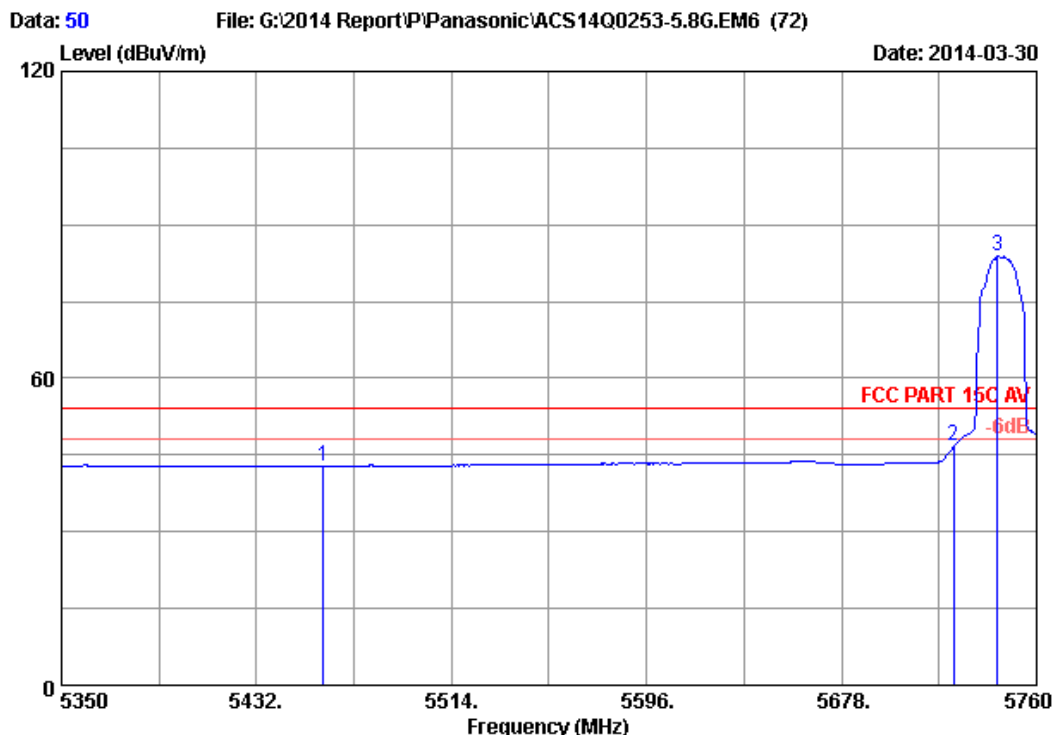
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.33	55.82	74.00	18.18	Peak
2	5725.000	34.09	9.52	35.70	55.49	63.40	74.00	10.60	Peak
3	5748.520	34.10	9.55	35.70	89.12	97.07	74.00	-23.07	Peak

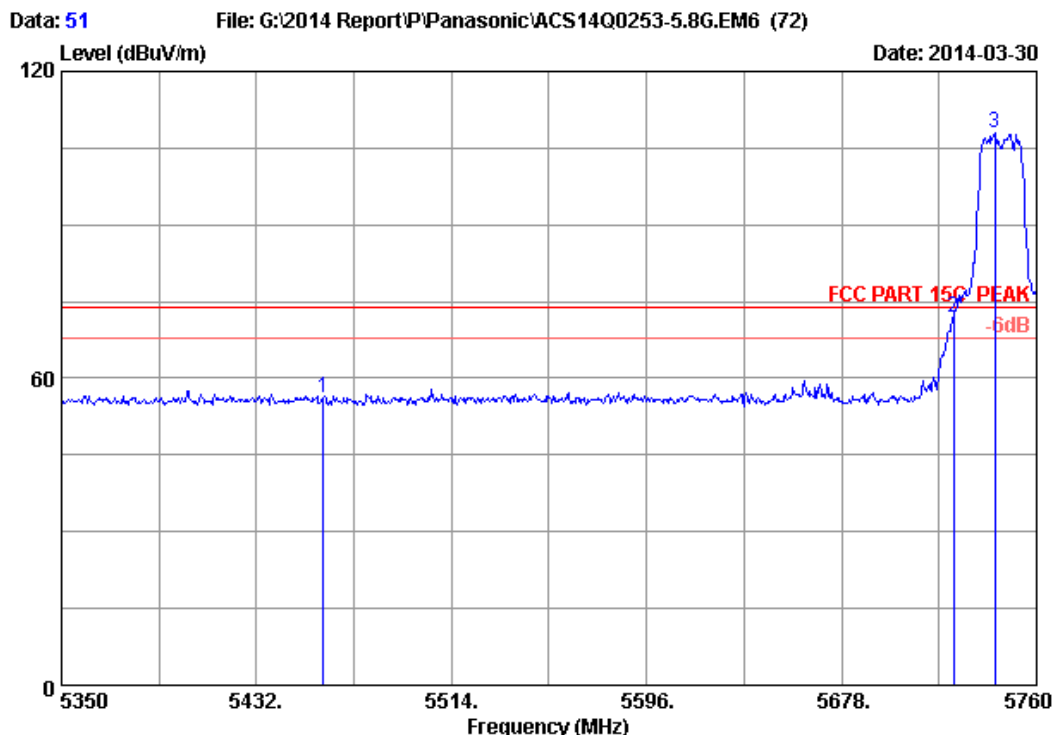
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.37	42.86	54.00	11.14	Average
2	5725.000	34.09	9.52	35.70	38.86	46.77	54.00	7.23	Average
3	5743.600	34.10	9.54	35.70	76.00	83.94	54.00	-29.94	Average

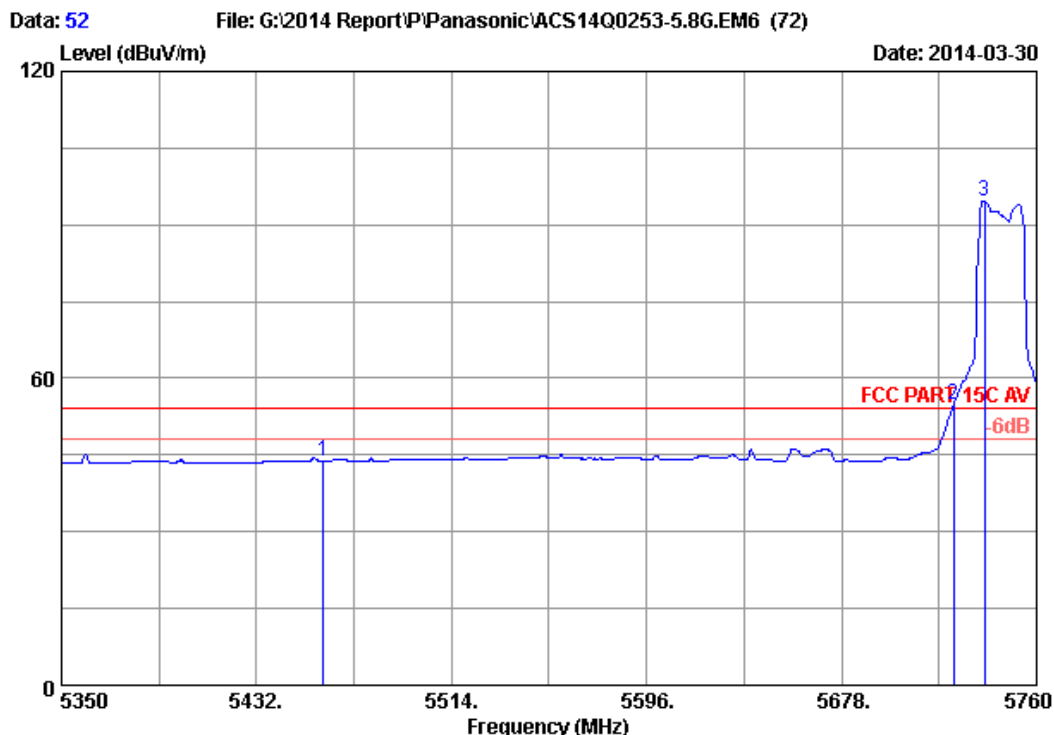
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 51
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.73	56.22	74.00	17.78	Peak
2	5725.000	34.09	9.52	35.70	63.88	71.79	74.00	2.21	Peak
3	5742.370	34.10	9.54	35.70	99.97	107.91	74.00	-33.91	Peak

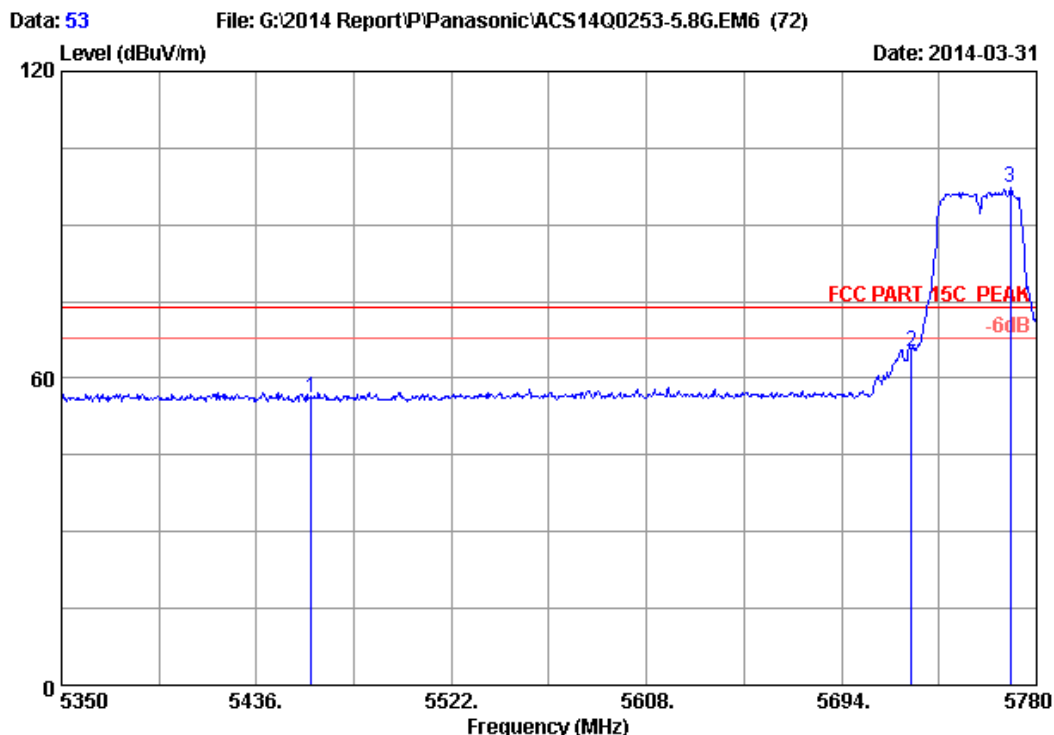
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 52
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT20 5745MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	36.34	43.83	54.00	10.17	Average
2	5725.000	34.09	9.52	35.70	47.00	54.91	54.00	-0.91	Average
3	5738.270	34.10	9.54	35.70	86.63	94.57	54.00	-40.57	Average

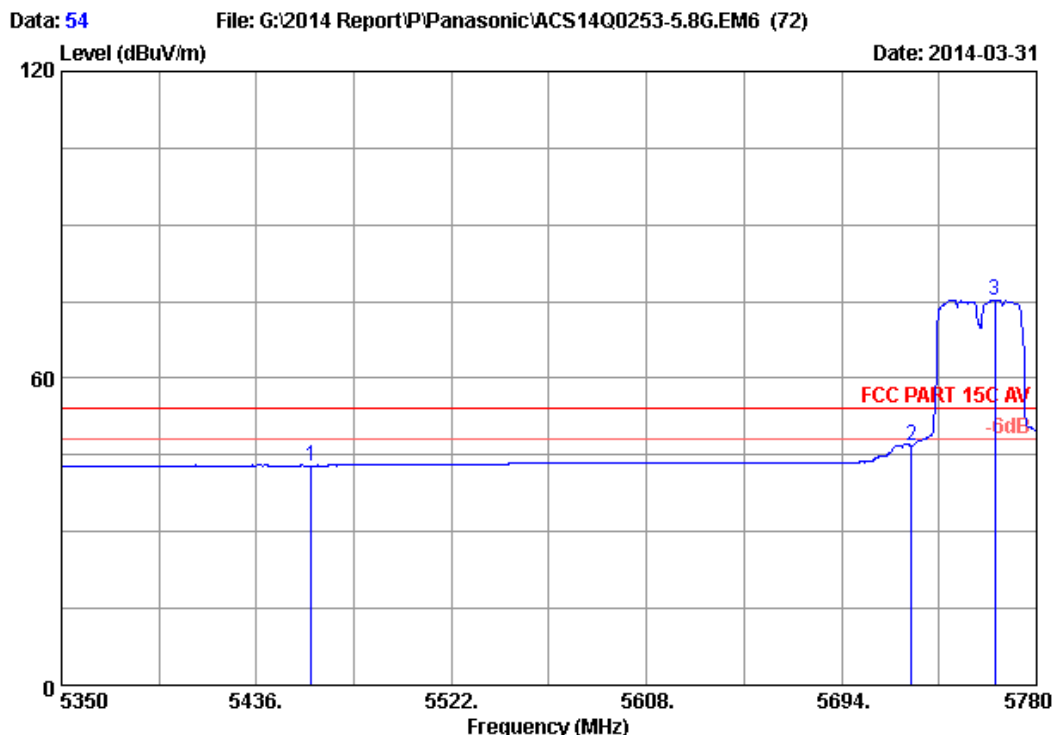
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 53
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	48.81	56.30	74.00	17.70	Peak
2	5725.000	34.09	9.52	35.70	57.35	65.26	74.00	8.74	Peak
3	5768.390	34.11	9.57	35.70	89.25	97.23	74.00	-23.23	Peak

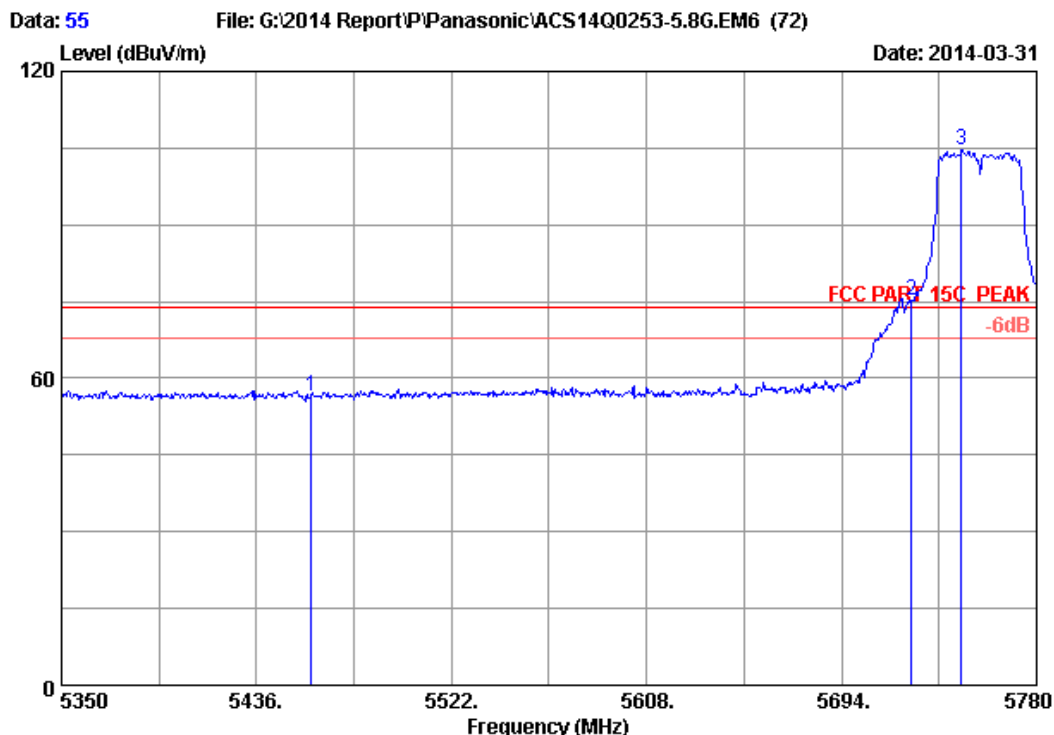
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 54
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	35.44	42.93	54.00	11.07	Average
2	5725.000	34.09	9.52	35.70	38.87	46.78	54.00	7.22	Average
3	5761.510	34.10	9.56	35.70	67.36	75.32	54.00	-21.32	Average

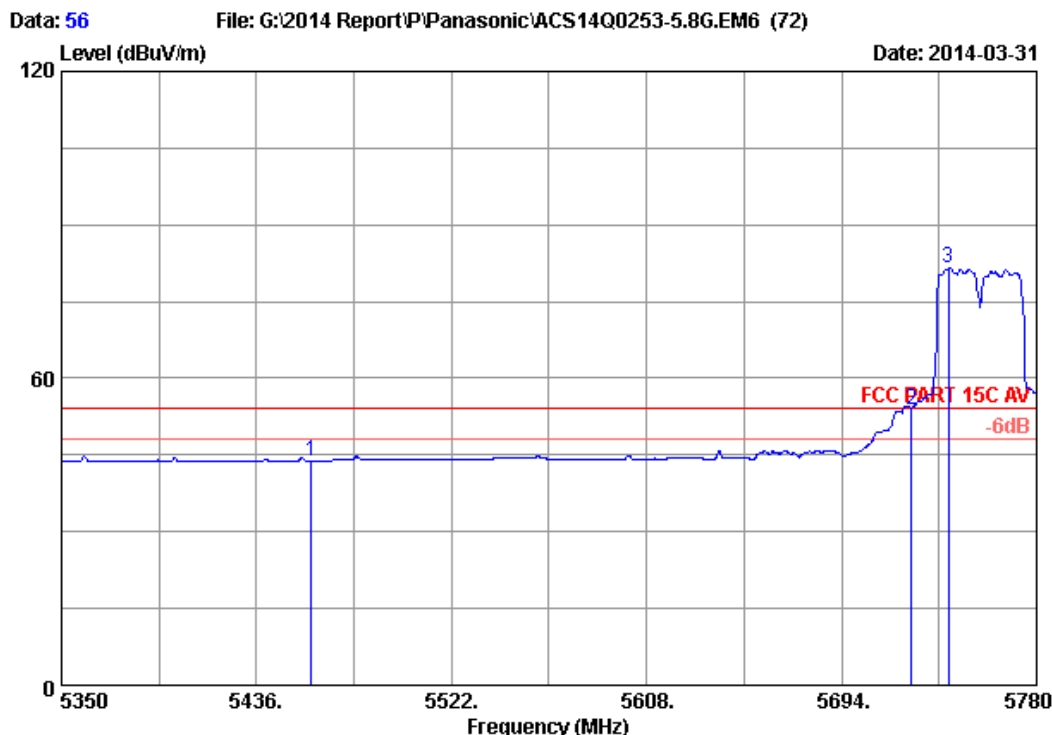
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5755MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	49.17	56.66	74.00	17.34	Peak
2	5725.000	34.09	9.52	35.70	67.20	75.11	74.00	-1.11	Peak
3	5746.890	34.10	9.55	35.70	96.69	104.64	74.00	-30.64	Peak

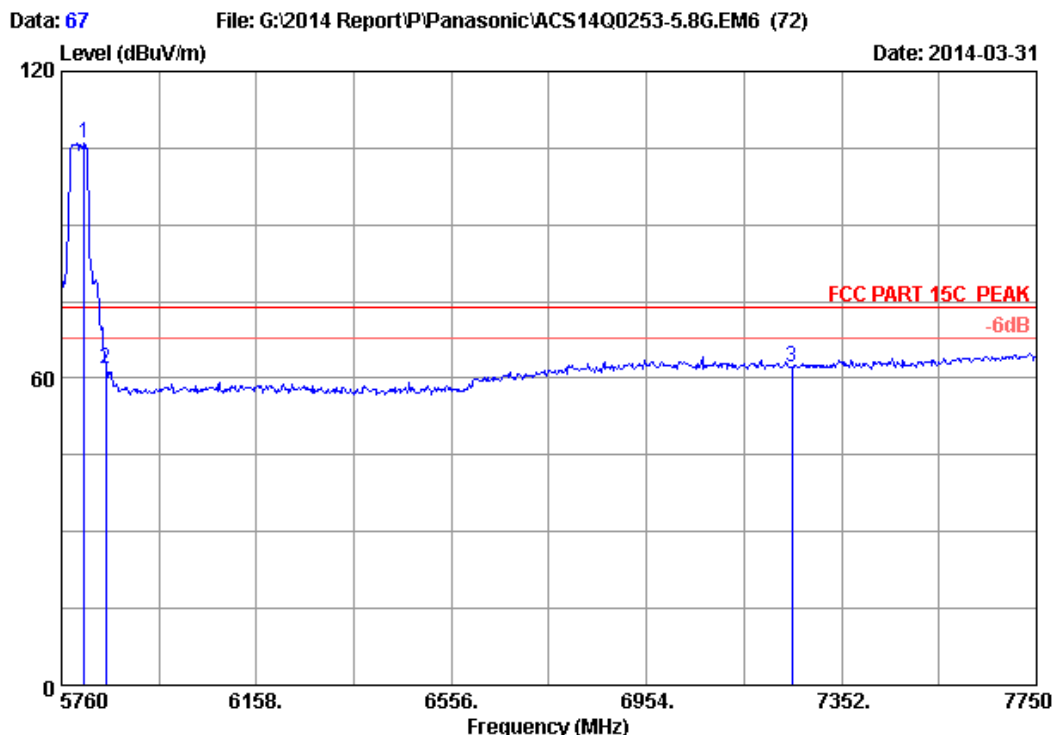
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
- Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 3m Chamber Data no. : 56
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5755MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5460.000	33.94	9.25	35.70	36.34	43.83	54.00	10.17	Average
2	5725.000	34.09	9.52	35.70	46.04	53.95	54.00	0.05	Average
3	5741.300	34.10	9.54	35.70	73.69	81.63	54.00	-27.63	Average

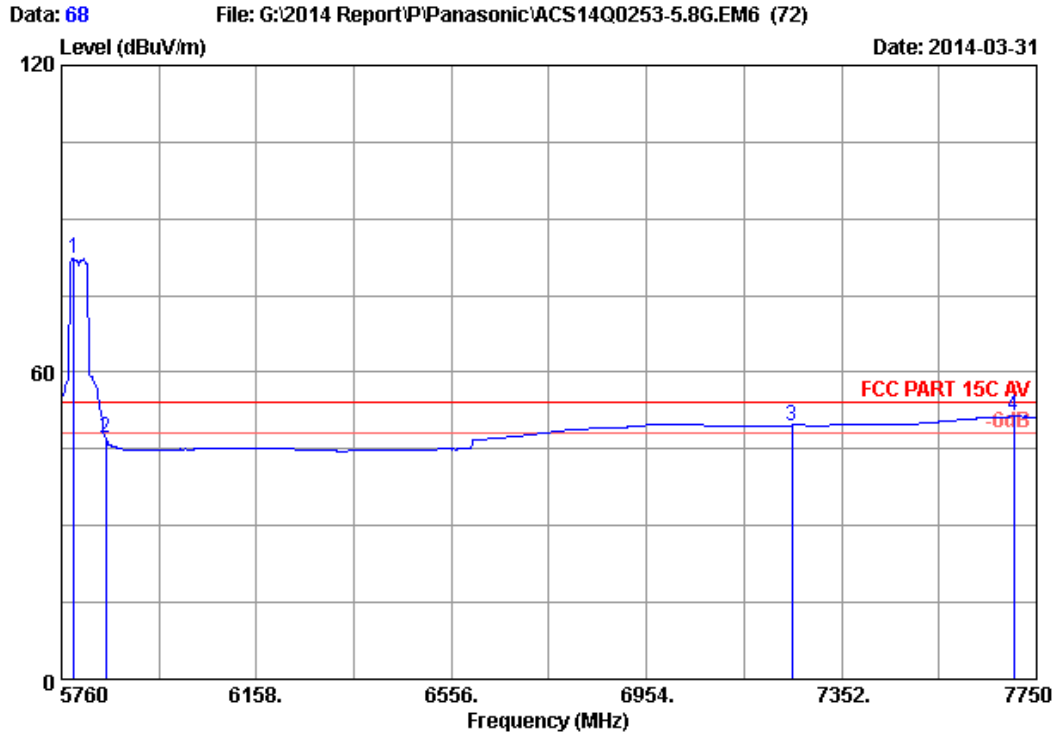
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 67
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5805.770	34.12	9.61	35.70	98.04	106.07	74.00	-32.07	Peak
2	5850.000	34.14	9.66	35.70	53.66	61.76	74.00	12.24	Peak
3	7250.000	36.05	10.99	35.45	50.44	62.03	74.00	11.97	Peak

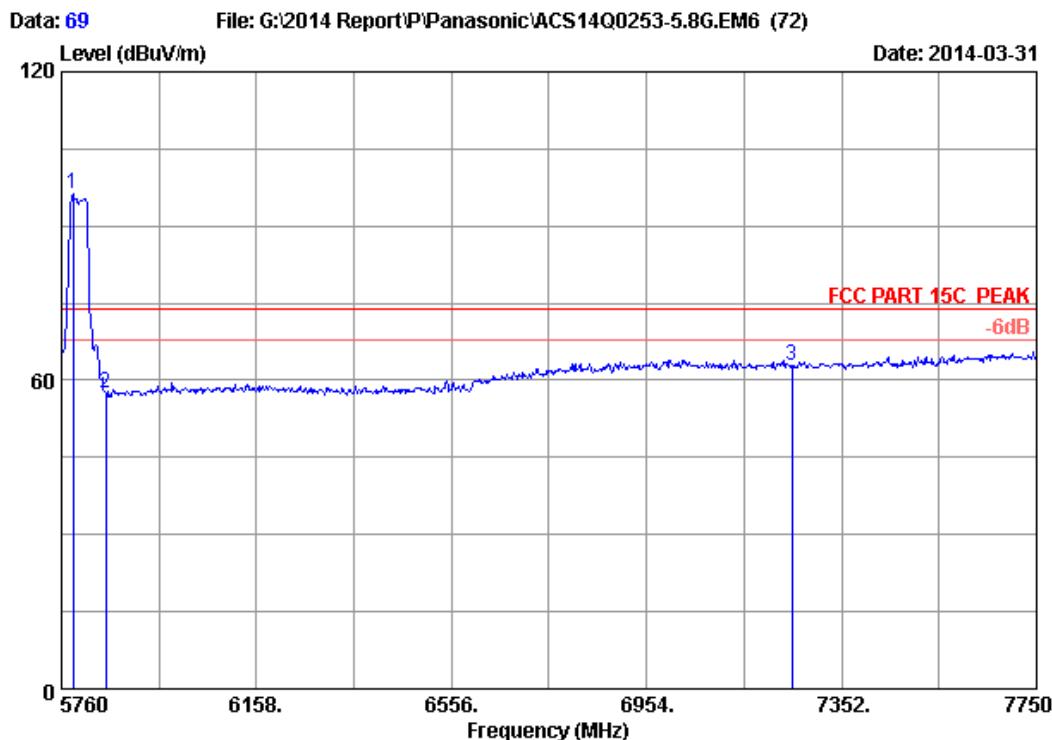
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 68
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5785.870	34.11	9.59	35.70	74.26	82.26	54.00	-28.26	Average
2	5850.000	34.14	9.66	35.70	39.17	47.27	54.00	6.73	Average
3	7250.000	36.05	10.99	35.45	38.04	49.63	54.00	4.37	Average
4	7704.230	36.80	11.23	35.36	38.71	51.38	54.00	2.62	Average

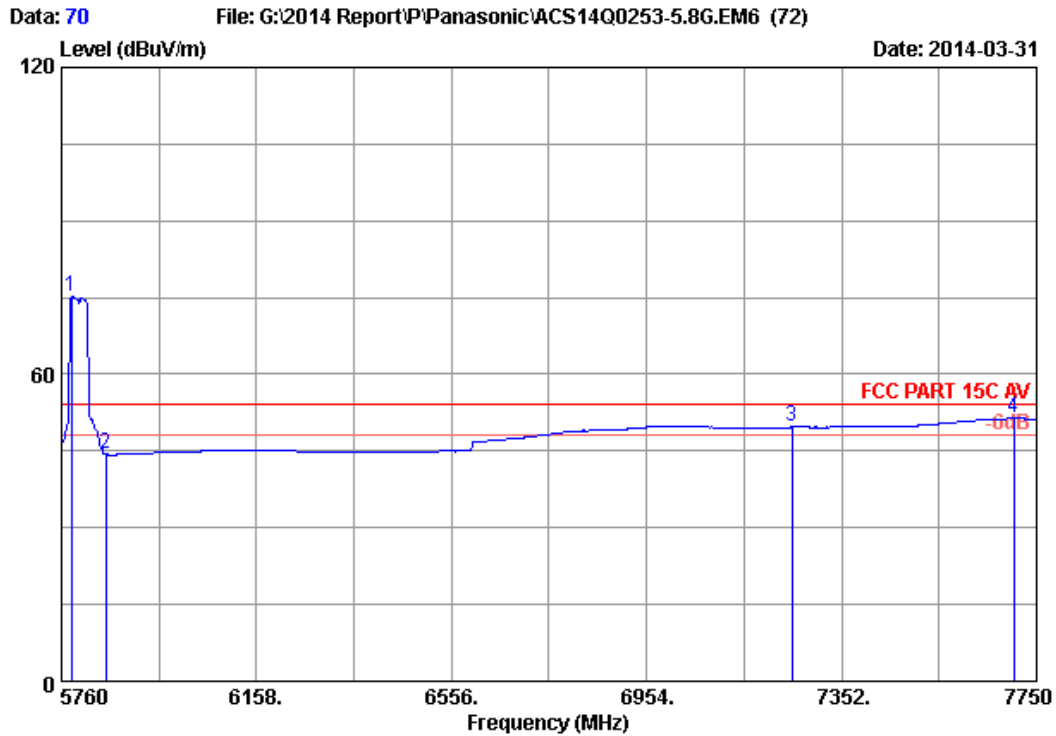
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24°C/56% Engineer : Leo-Li
EUT : Wireless Speaker System
Power Rating : AC 120V/60Hz
Test Mode : IEEE802.11nHT40 5795MHz Tx
M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5783.880	34.11	9.59	35.70	88.12	96.12	74.00	-22.12	Peak
2	5850.000	34.14	9.66	35.70	49.38	57.48	74.00	16.52	Peak
3	7250.000	36.05	10.99	35.45	51.14	62.73	74.00	11.27	Peak

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



Site no. : 3m Chamber Data no. : 70
 Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24°C/56% Engineer : Leo-Li
 EUT : Wireless Speaker System
 Power Rating : AC 120V/60Hz
 Test Mode : IEEE802.11nHT40 5795MHz Tx
 M/N : SC-ALL3

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5779.900	34.11	9.58	35.70	67.26	75.25	54.00	-21.25	Average
2	5850.000	34.14	9.66	35.70	36.27	44.37	54.00	9.63	Average
3	7250.000	36.05	10.99	35.45	38.06	49.65	54.00	4.35	Average
4	7704.230	36.80	11.23	35.36	38.71	51.38	54.00	2.62	Average

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

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2	Antenna	EMCO	3115	9607-4877	May.08, 13	1 Year
3	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

7.2. Limit

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

7.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 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

2.4G:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-02	Pressure: 101.2±1.0 kpa	Humidity: 49.2±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11b	CH1	10.26	10.25	>500
	CH6	10.25	10.25	>500
	CH11	10.26	10.26	>500
11g	CH1	16.41	16.44	>500
	CH6	16.44	16.49	>500
	CH11	16.41	16.45	>500
11n HT20	CH1	17.61	17.67	>500
	CH6	17.67	17.67	>500
	CH11	17.64	17.70	>500
11n HT40	CH1	36.55	36.52	>500
	CH4	36.52	36.39	>500
	CH7	36.54	36.32	>500
Conclusion : PASS				

5.8G:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.2±1.0 kpa	Humidity: 49.2±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.5±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Chain 0	Chain 1	
11a	5745	16.33	16.36	>500
	5785	16.27	16.41	>500
	5825	16.28	16.38	>500
11n HT20	5745	17.56	17.59	>500
	5785	17.52	17.61	>500
	5825	17.39	17.54	>500
11n HT40	5755	36.34	36.33	>500
	5795	36.43	36.42	>500
Conclusion : PASS				

2.4G:

Chain 0:

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz

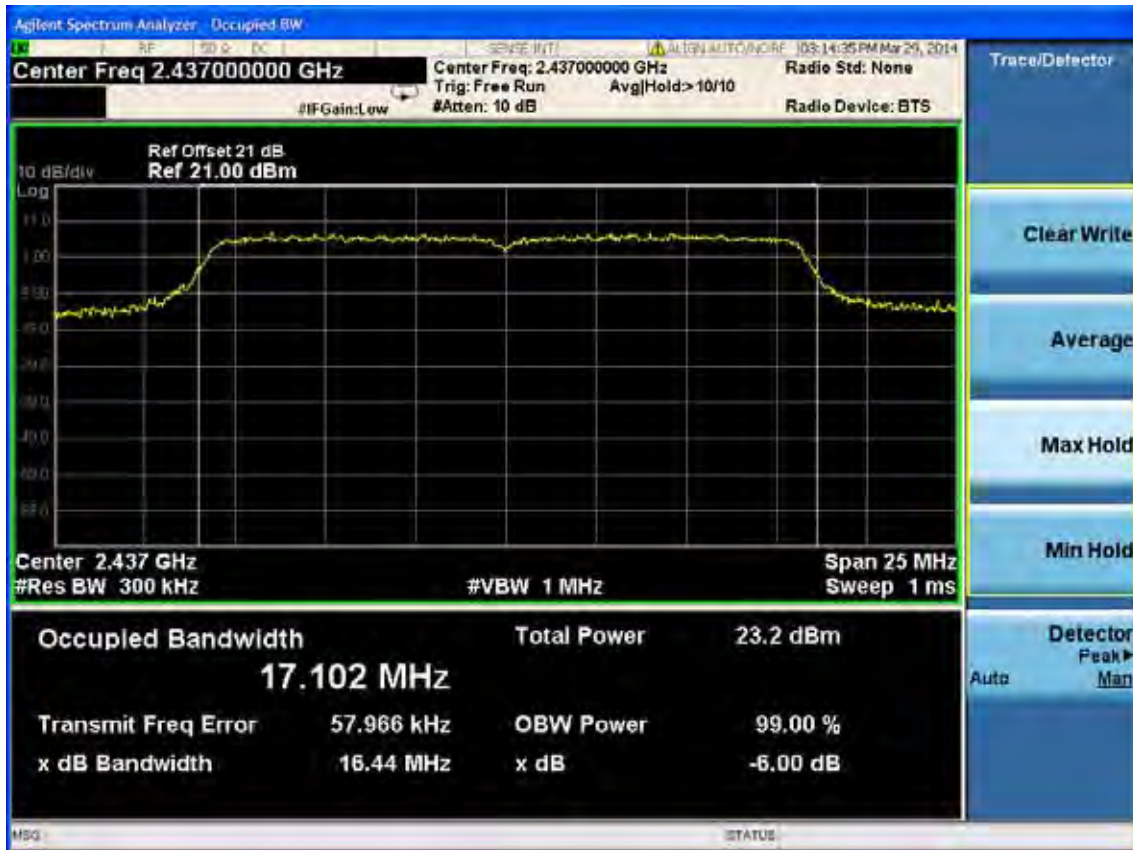


Test Mode: IEEE 802.11g TX

Test CH1: 2412MHz



Test CH6: 2437MHz

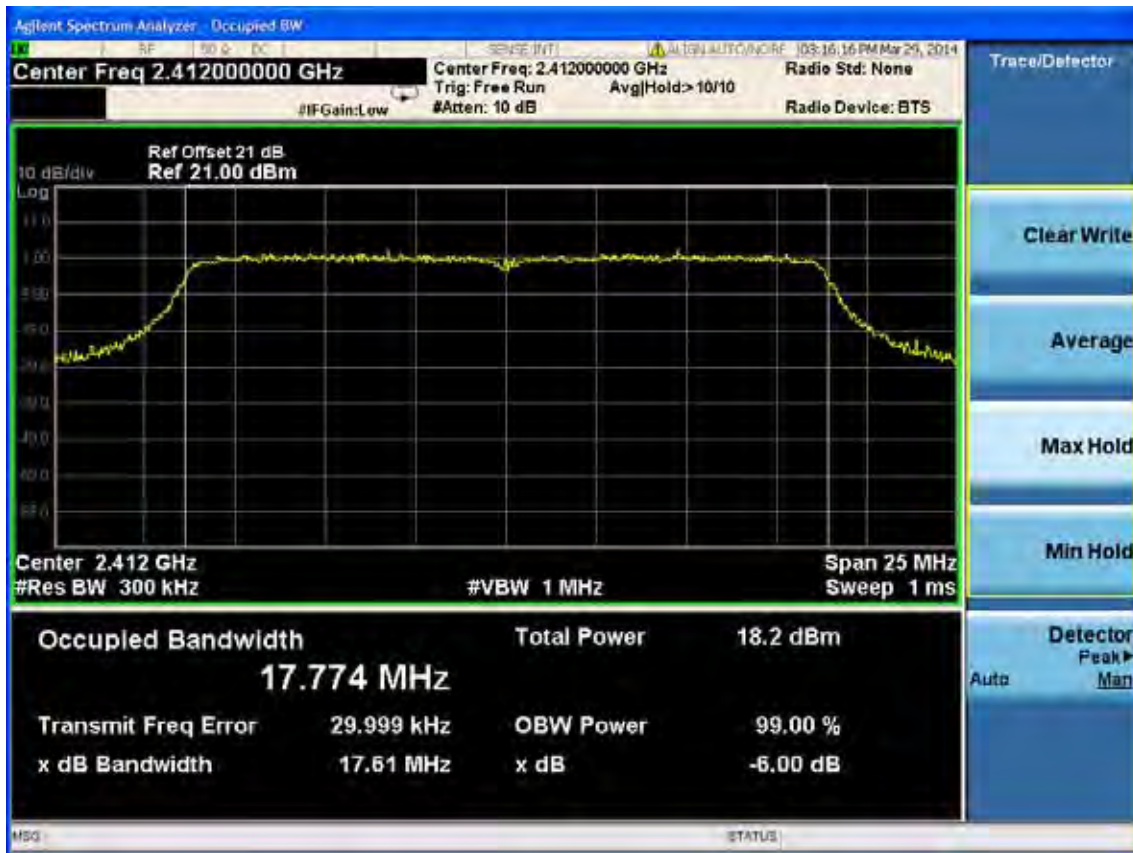


Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT20 TX

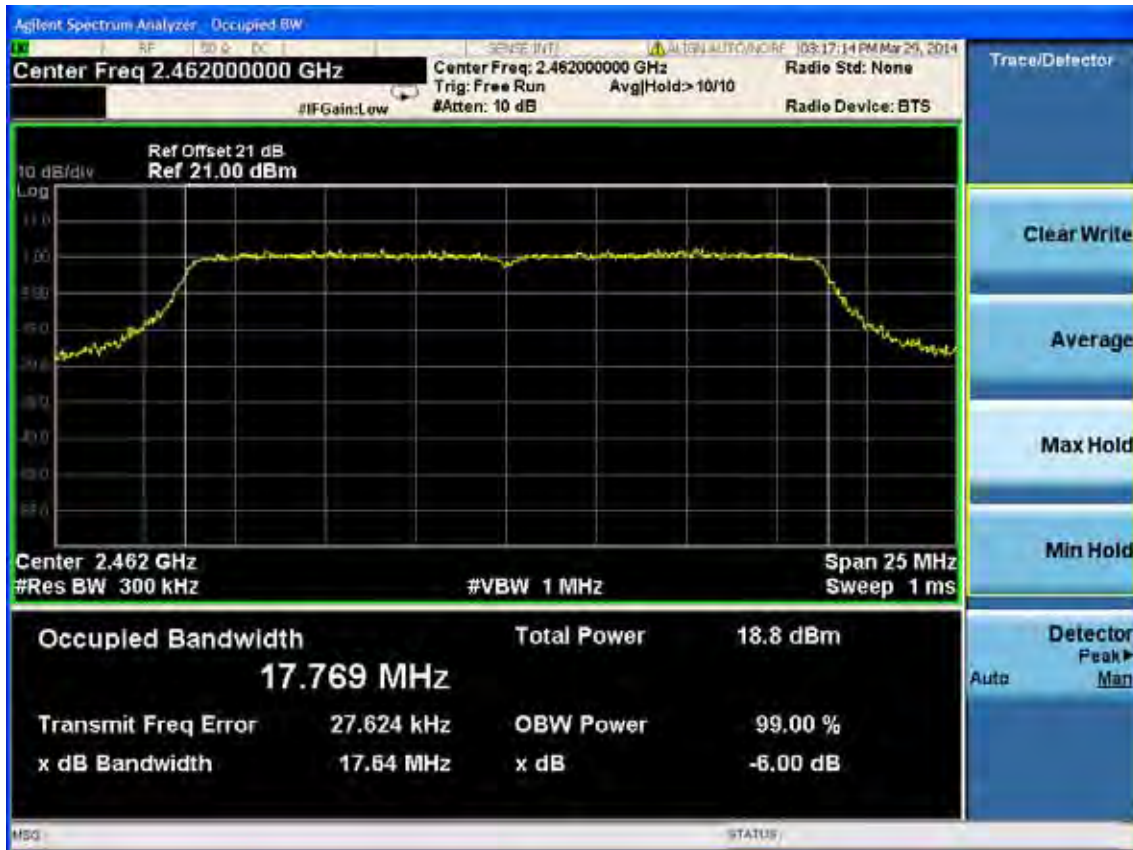
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz

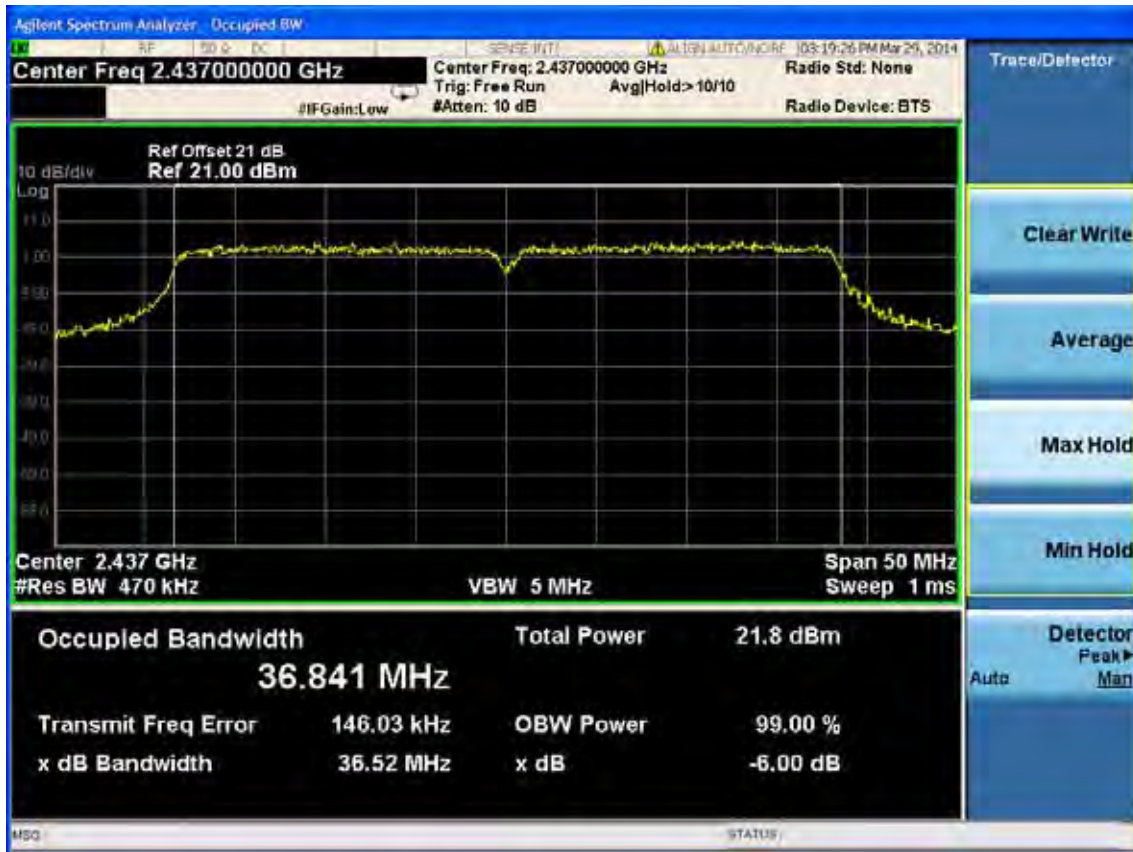


Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



Chain 1:

Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz



Test CH6: 2437MHz

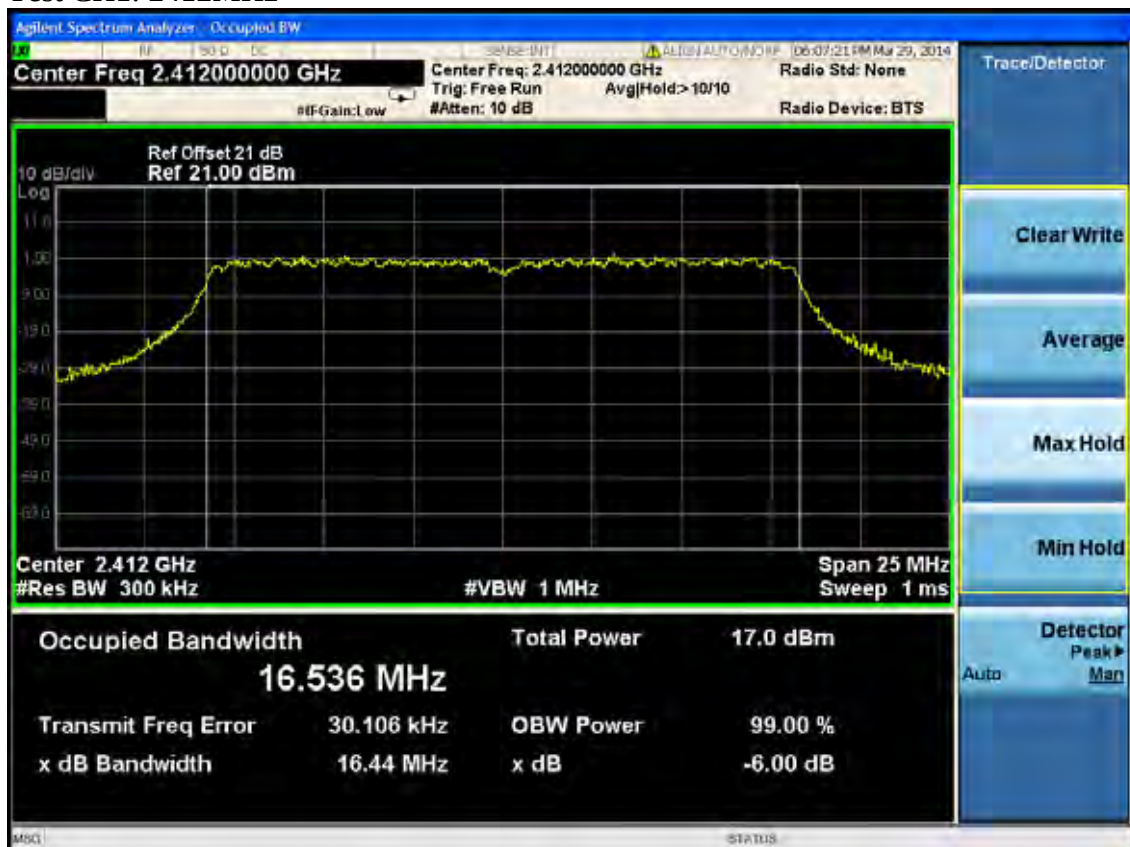


Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

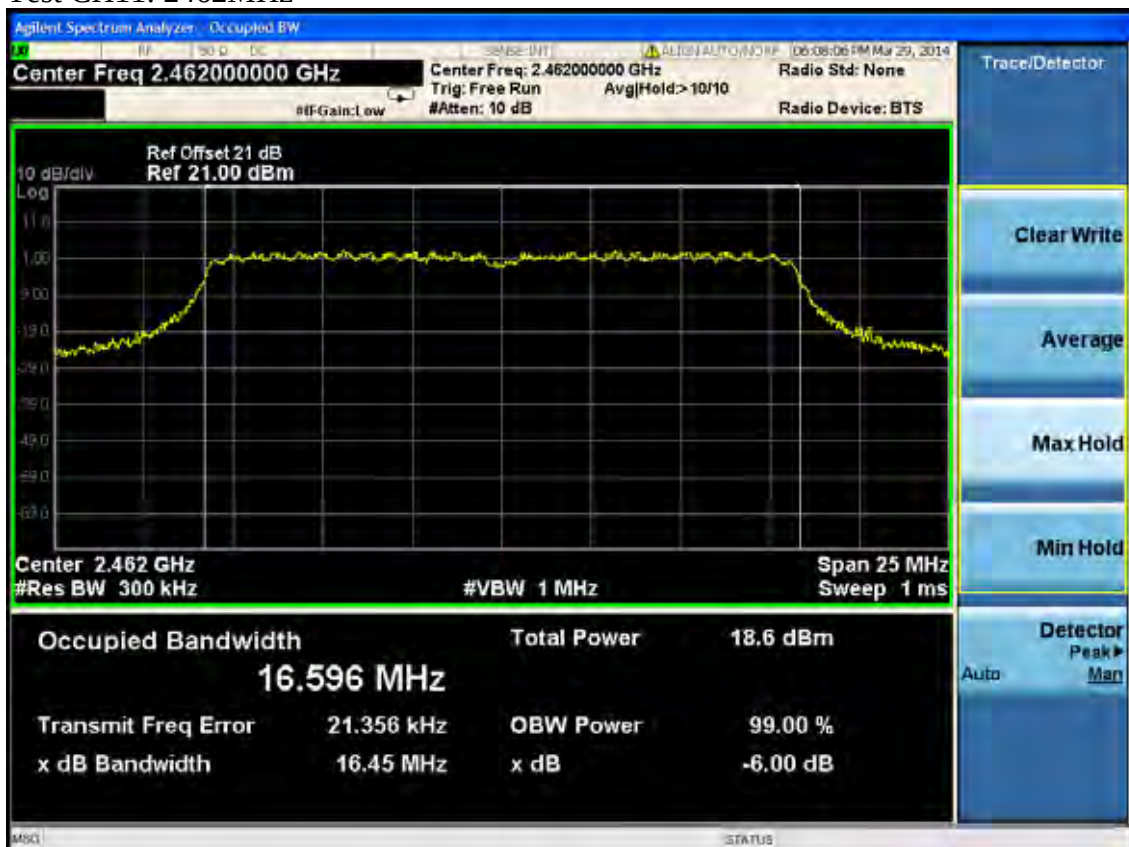
Test CH1: 2412MHz



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

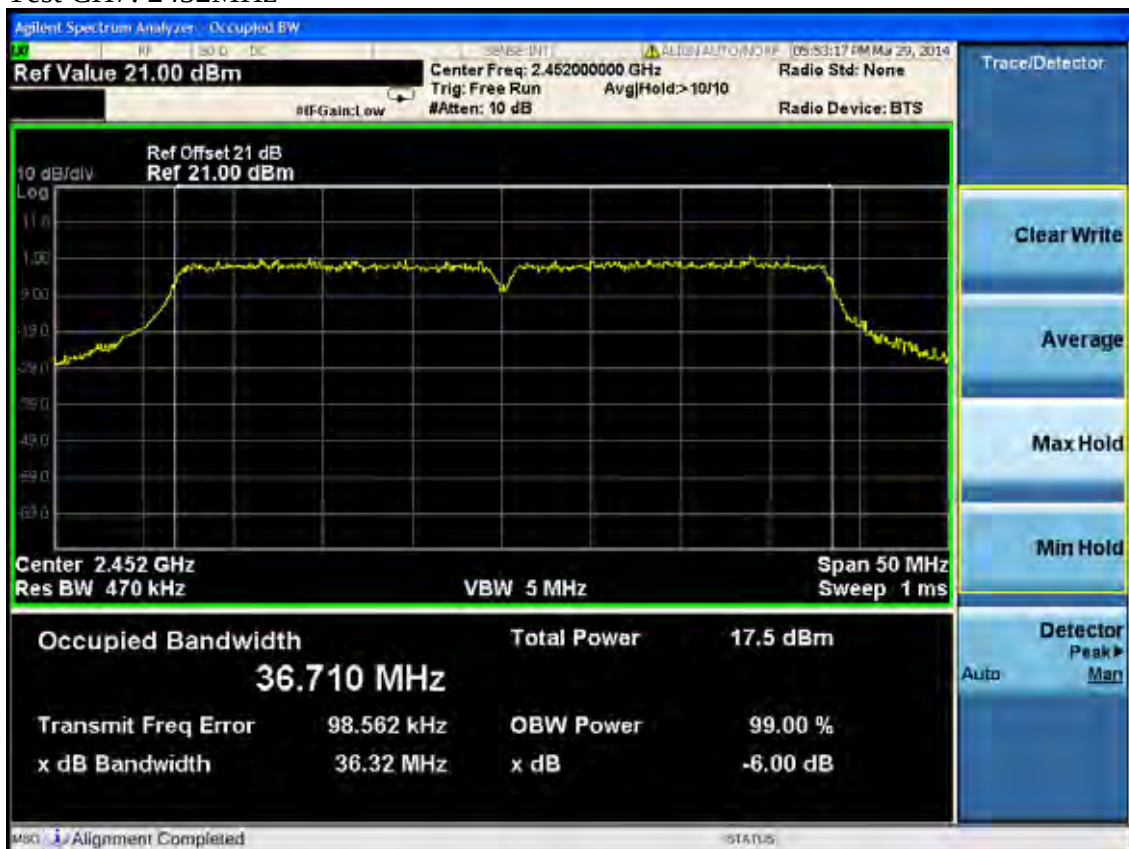
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



5.8G:

Chain 0:

Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

Test CH149: 5745MHz



Test CH157: 5785MHz



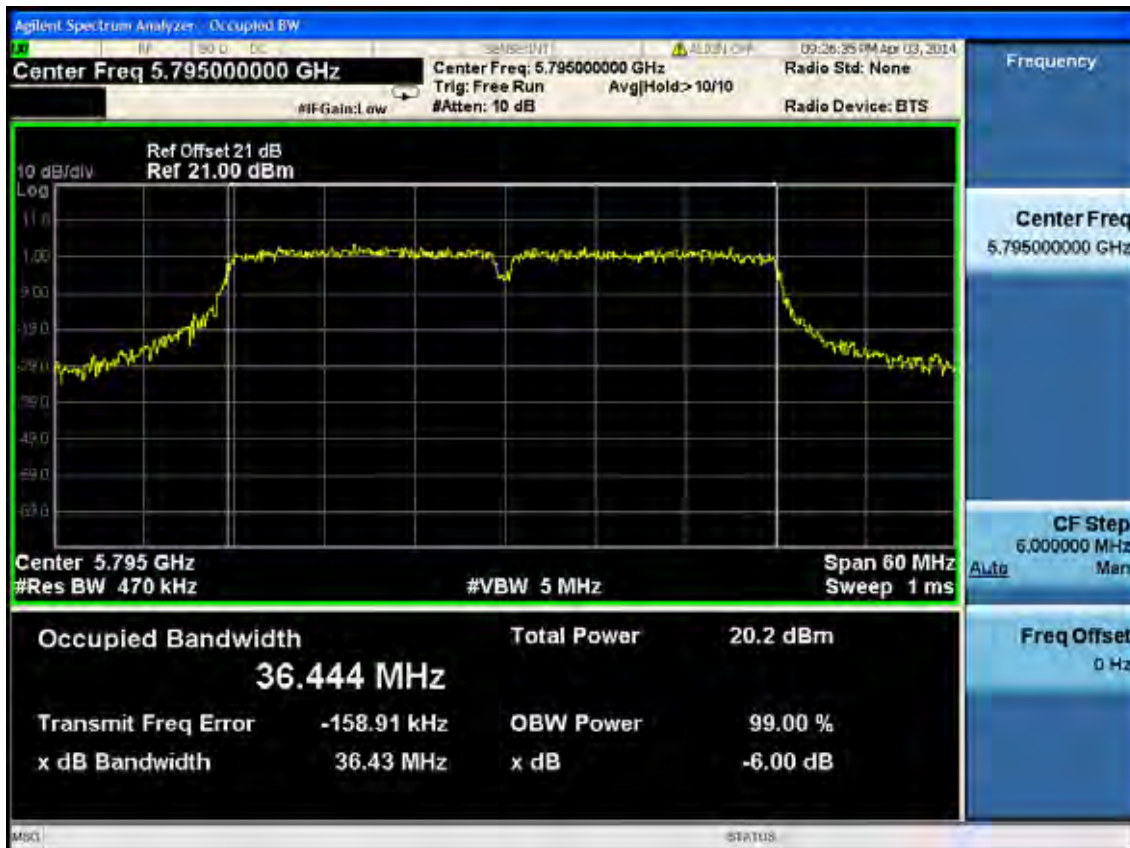
Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT40 TX
Test CH151: 5755MHz



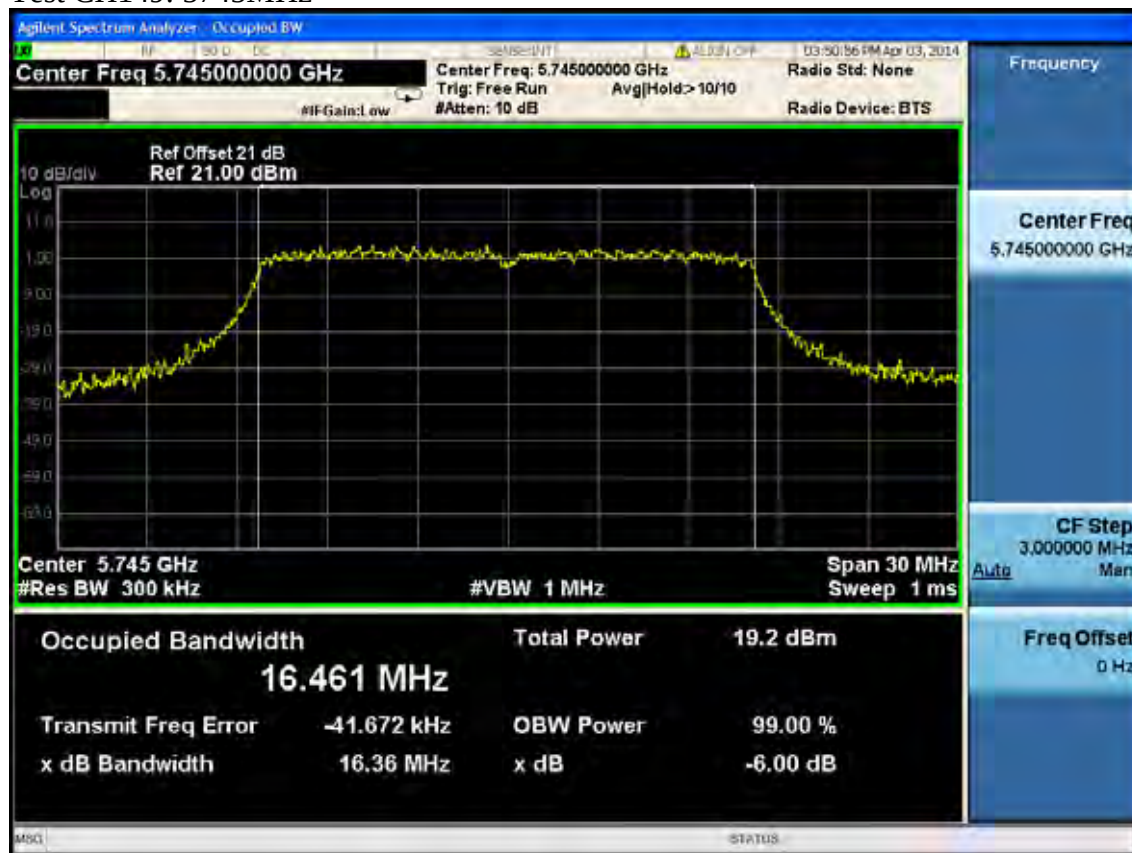
Test CH159: 5795MHz



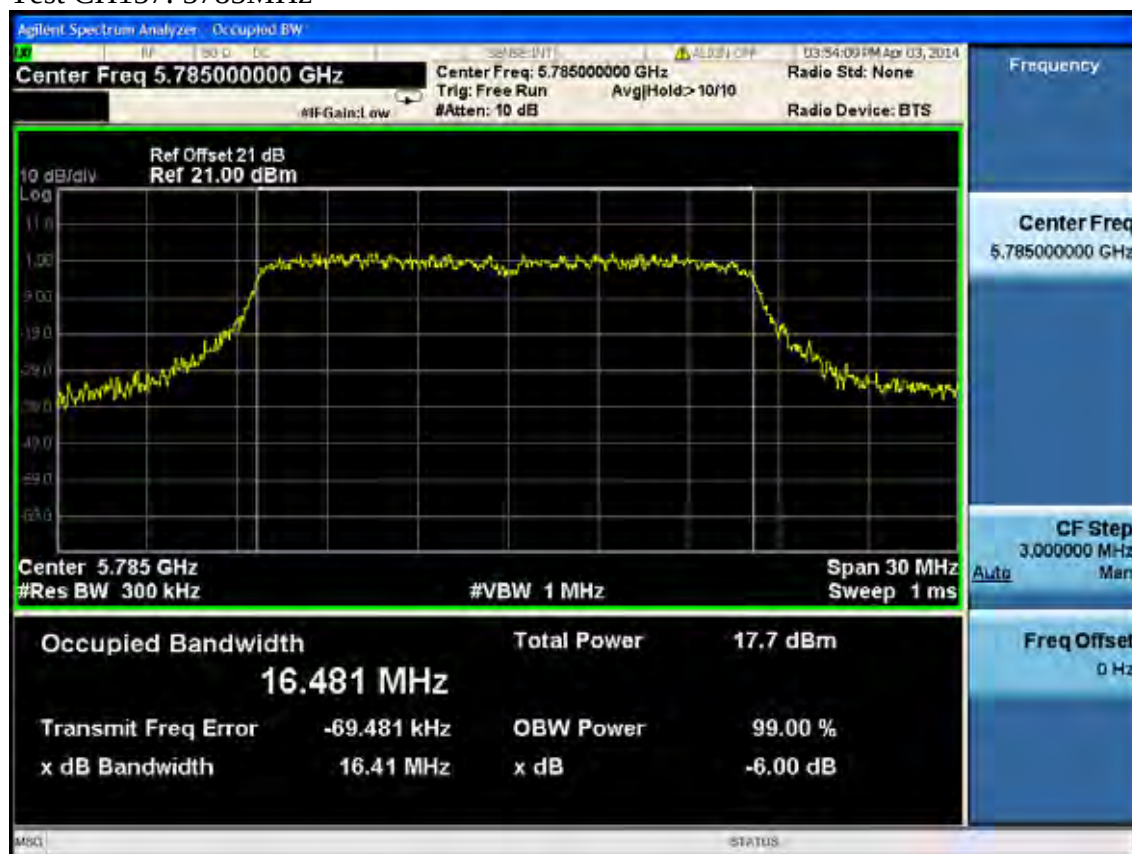
Chain 1:

Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

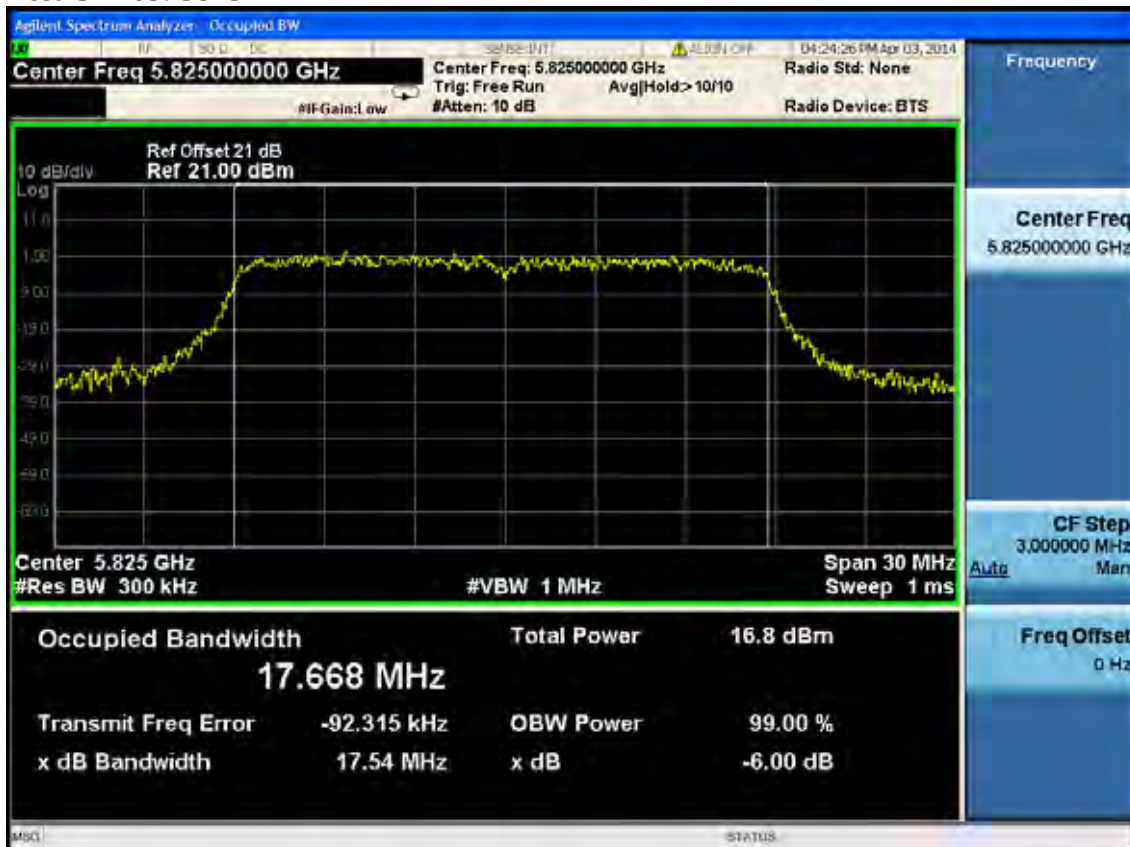
Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT40 TX
Test CH151: 5755MHz



Test CH159: 5795MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	1Year

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

For systems using digital modulation in the 2400—2483.5MHz, 5725-5850MHz, 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 used the test method per KDB558074.
 - 1) Set the RBW=1MHz and VBW =3MHz
 - 2) Set the span to a value that is 5-30% greater than EBW
 - 3) Detector = peak
 - 4) Sweep time = auto couple
 - 5) Trace Mode = max hold
 - 6) allow trace to fully stabilize
 - 7) use the spectrum analyser's integrated band power measurement function with band limits set equal to the EBW band edges.

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

8.4.Test Results

2.4G:

EUT: Wireless Speaker System					
M/N:SC-ALL3					
Test date: 2014-04-02		Pressure: 101.1±1.0 kpa		Humidity: 51.4±3.0%	
Tested by: Kevin_Hu		Test site: RF site		Temperature:22.3±0.6 °C	
Cable loss: 1 dB			Attenuator loss: 20 dB		
Test Mode	CH	Peak output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
11b	CH1	20.04	19.19	22.65	30
	CH6	20.25	18.86	22.62	30
	CH11	19.59	19.08	22.35	30
11g	CH1	18.77	19.09	21.94	30
	CH6	24.38	23.97	27.19	30
	CH11	19.31	19.56	22.45	30
11n HT20	CH1	18.31	18.76	21.55	30
	CH6	23.76	23.50	26.64	30
	CH11	19.19	18.72	21.97	30
11n HT40	CH1	19.31	18.13	21.77	30
	CH4	22.53	21.40	25.01	30
	CH7	19.74	18.28	22.08	30
Conclusion: PASS					

5.8G:

EUT:Wireless Speaker System					
M/N:SC-ALL3					
Test date: 2014-04-04		Pressure: 101.1±1.0 kpa		Humidity: 51.4±3.0%	
Tested by: Kevin_Hu		Test site: RF site		Temperature:22.3±0.6 °C	
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Peak output Power (dBm)			Limit (dBm)
		Chain 0	Chain 1	Total	
11a	5745	20.07	22.42	24.41	30
	5785	19.36	22.27	24.06	30
	5825	19.31	20.78	23.12	30
11n HT20	5745	19.56	22.12	24.04	30
	5785	19.39	22.13	23.98	30
	5825	18.70	20.57	22.75	30
11n HT40	5755	18.65	21.33	23.20	30
	5795	18.32	20.92	22.82	30
Conclusion: PASS					

2.4G:

Chain 0:

Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



Chain 1:

Test Mode: IEEE 802.11n HT40 TX

Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



5.8G:

Chain 0:

Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



Chain 1:

Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	Aug.28, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	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

2.4G:

EUT: Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-02	Pressure: 101.2±1.0 kpa	Humidity: 51.2±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 21.3±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 0	ANT 1	Total	
11b	CH1	-7.560	-7.895	-4.71	8
	CH6	-7.446	-8.362	-4.87	8
	CH11	-7.783	-8.160	-4.96	8
11g	CH1	-14.546	-15.196	-11.85	8
	CH6	-9.509	-9.569	-6.53	8
	CH11	-14.577	-14.961	-11.75	8
11n Mode					
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		ANT 0	ANT 1	Total	
11n HT20	CH1	-14.124	-14.697	-11.39	8
	CH6	-9.406	-11.095	-7.16	8
	CH11	-14.256	-13.608	-10.91	8
11n HT40	CH1	-17.814	-16.547	-14.12	8
	CH4	-17.579	-16.477	-13.98	8
	CH7	-14.263	-12.906	-10.52	8
Conclusion : PASS					

5.8G:

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.3±1.0 kpa	Humidity:52.6±3.0%
Tested by:Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

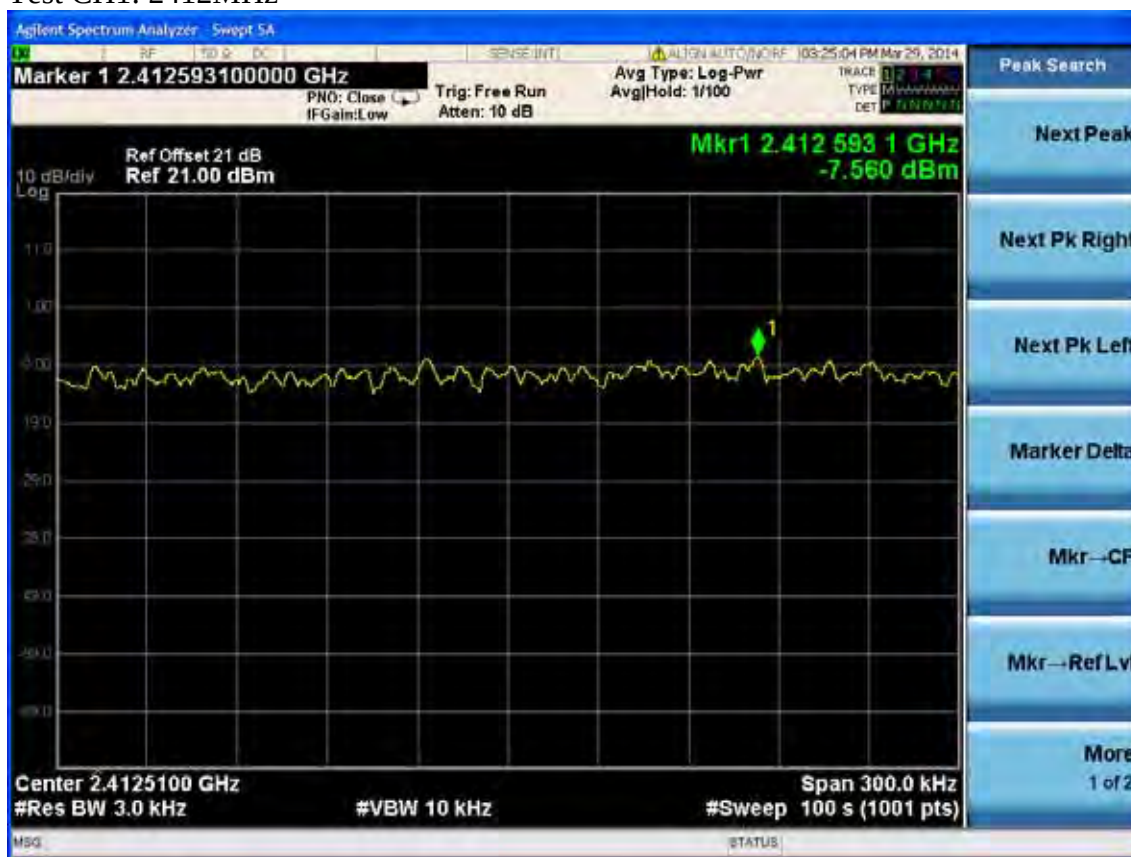
Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	Frequency (MHz)	Chain 0	Chain 1	Total	Limit
		(dBm/MHz)	(dBm/MHz)	(dBm/MHz)	(dBm/MHz)
11a	5745	-9.083	-13.074	-7.63	8
	5785	-9.937	-12.926	-8.17	8
	5825	-11.982	-13.179	-9.53	8
11n HT20	5745	-9.945	-13.299	-8.30	8
	5785	-9.870	-13.304	-8.25	8
	5825	-12.212	-14.470	-10.19	8
11n HT40	5755	-14.078	-13.946	-11.00	8
	5795	-14.090	-14.713	-11.38	8
Conclusion: PASS					

2.4G:

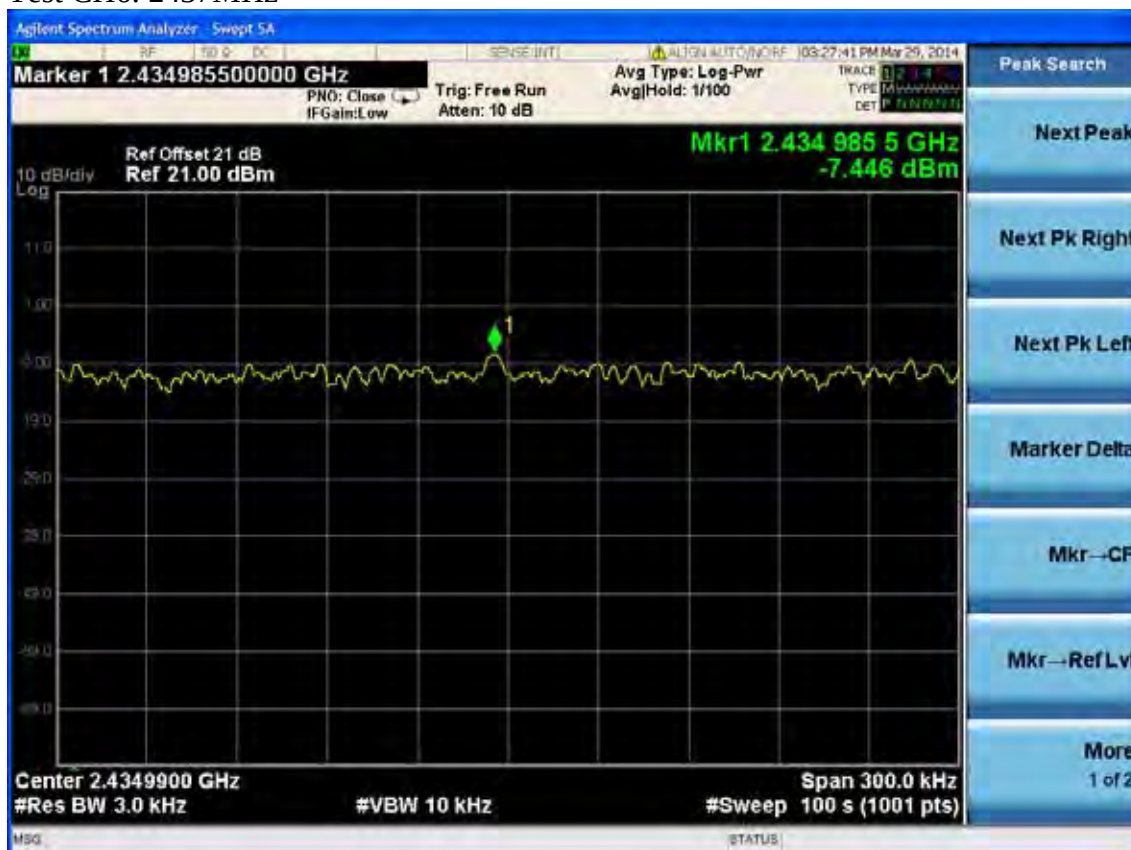
Chain 0:

Test Mode: IEEE 802.11b TX

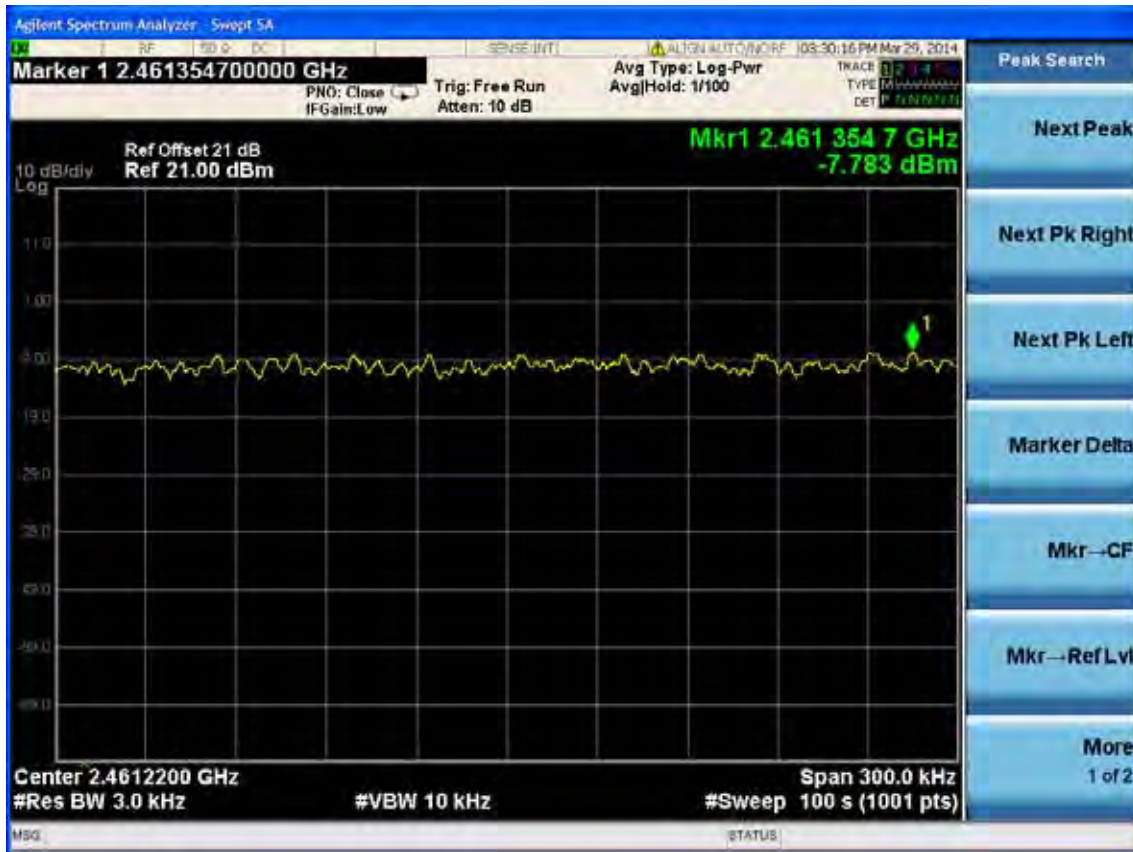
Test CH1: 2412MHz



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

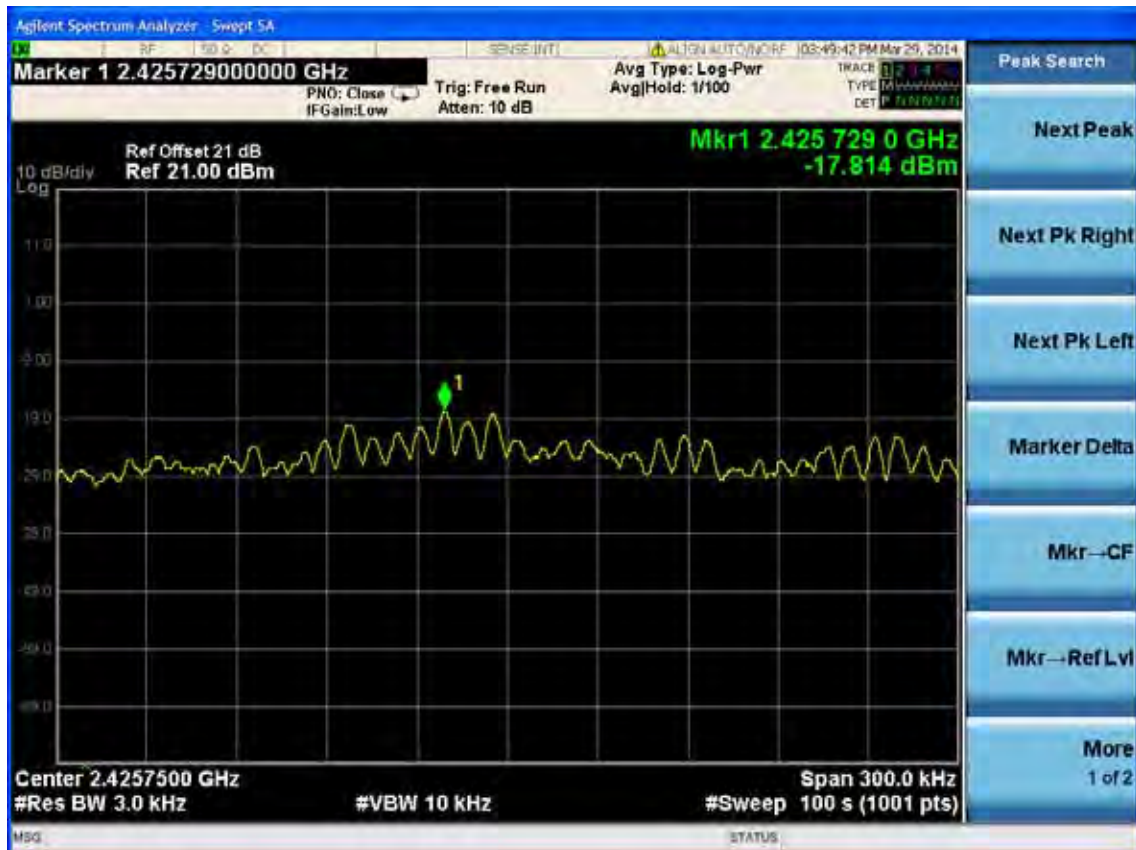


Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT40 TX

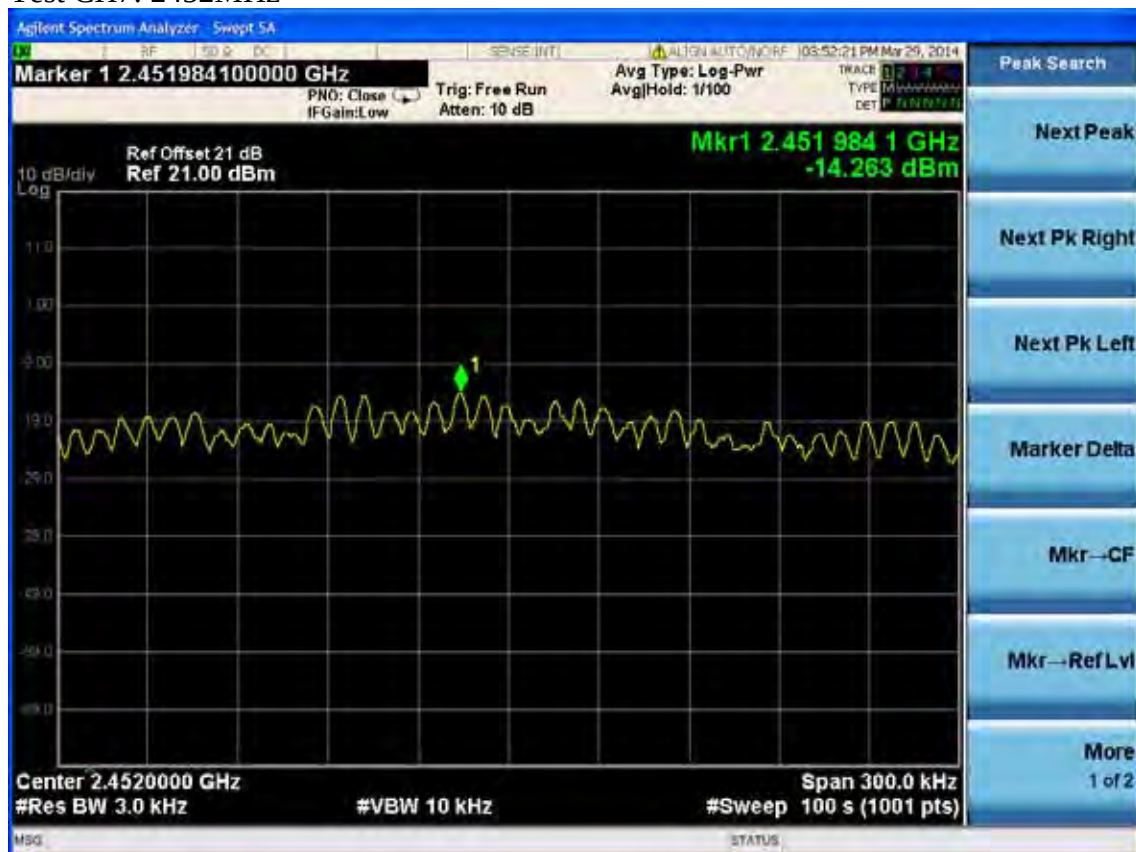
Test CH1: 2422MHz



Test CH4: 2437MHz



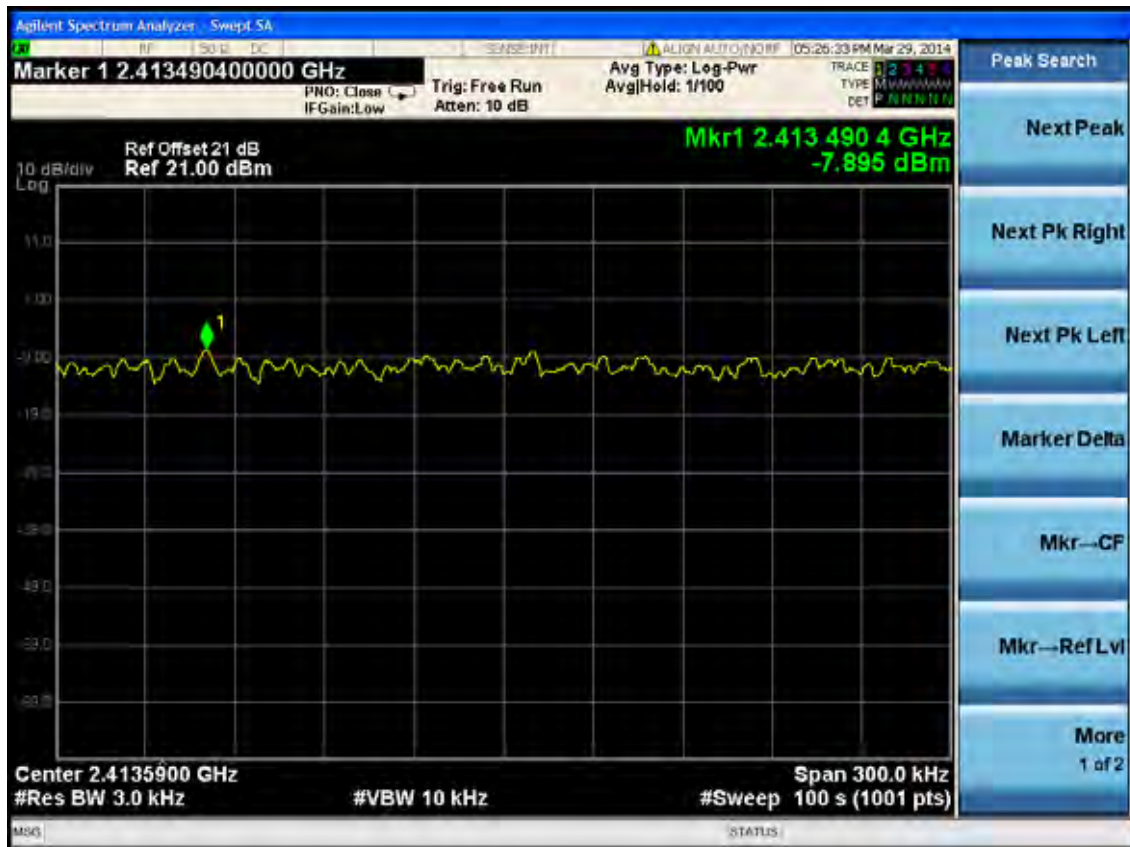
Test CH7: 2452MHz



Chain 1:

Test Mode: IEEE 802.11b TX

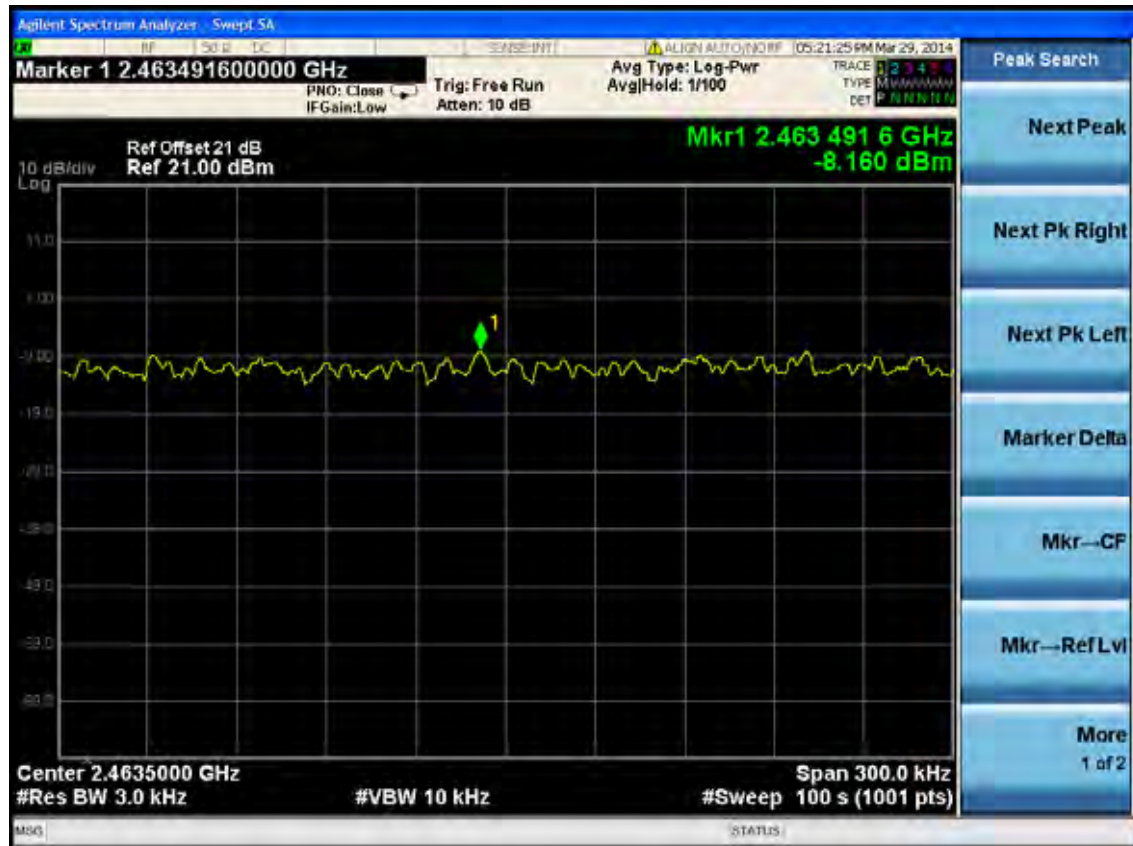
Test CH1: 2412MHz



Test CH6: 2437MHz

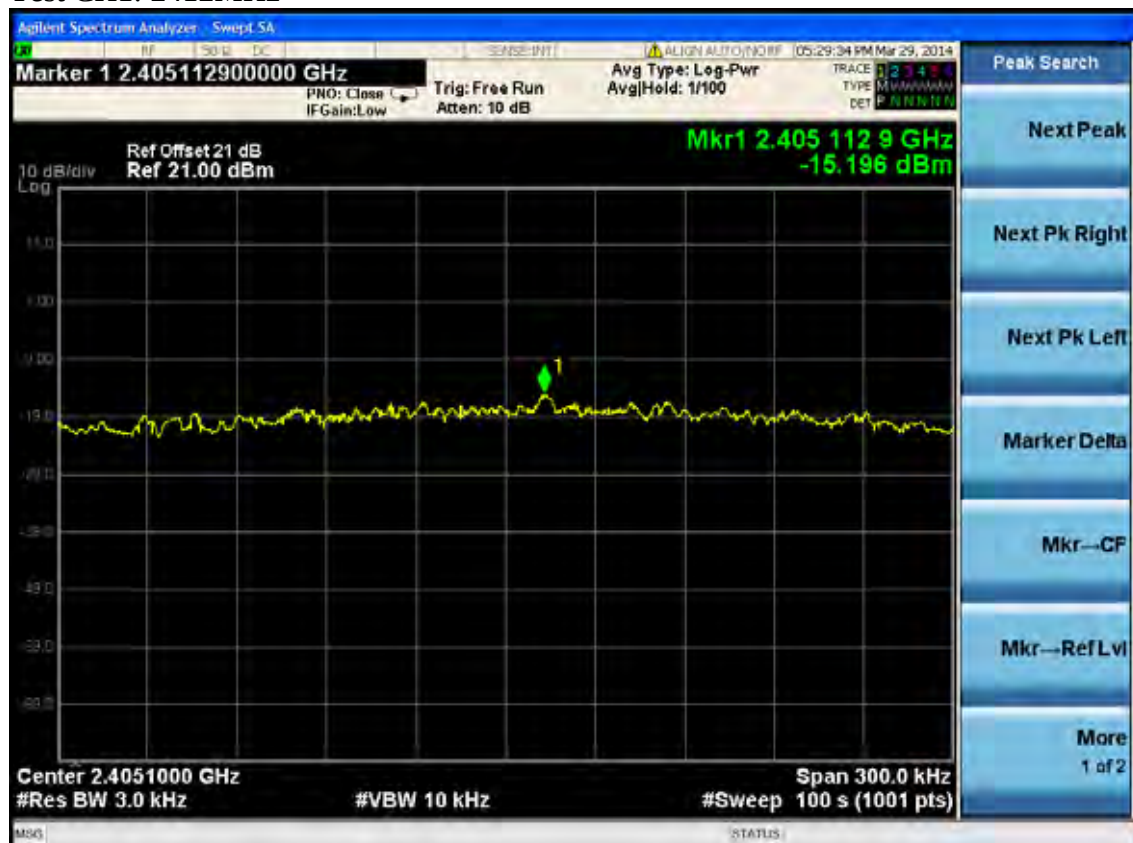


Test CH11: 2462MHz



Test Mode: IEEE 802.11g TX

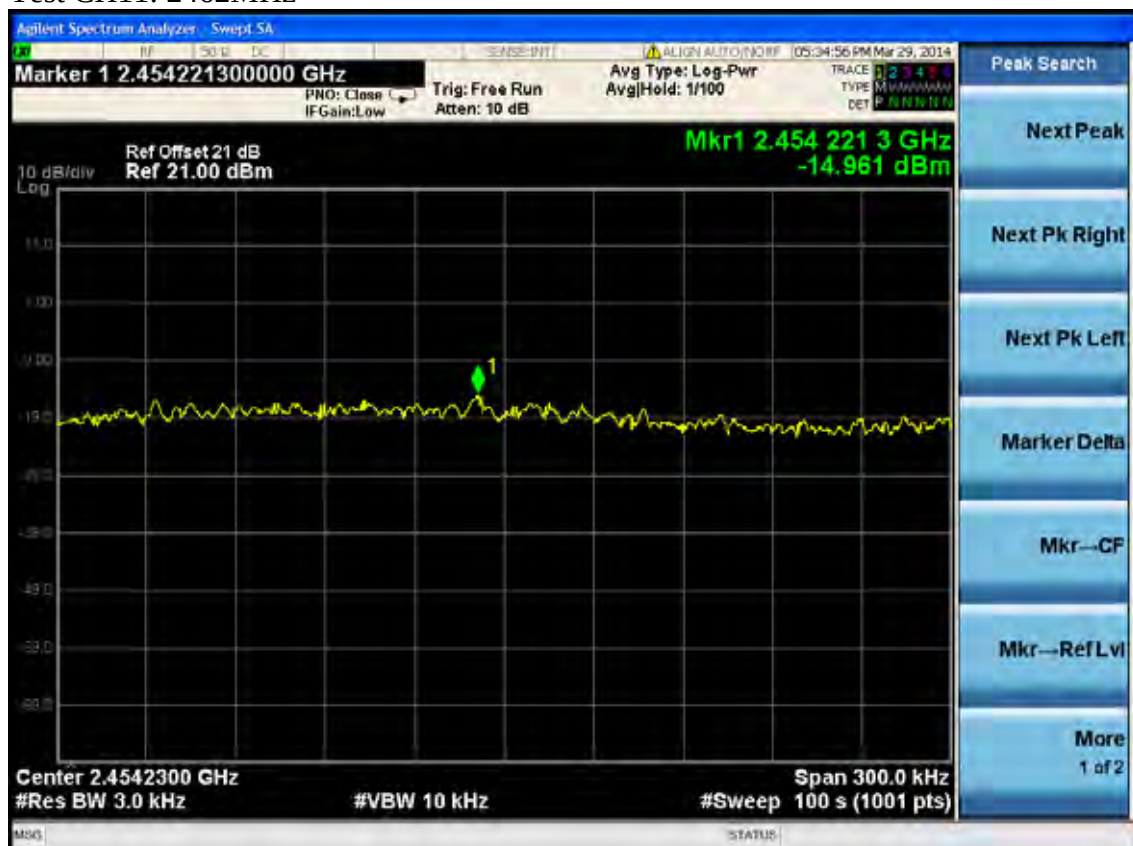
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



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



Test CH6: 2437MHz

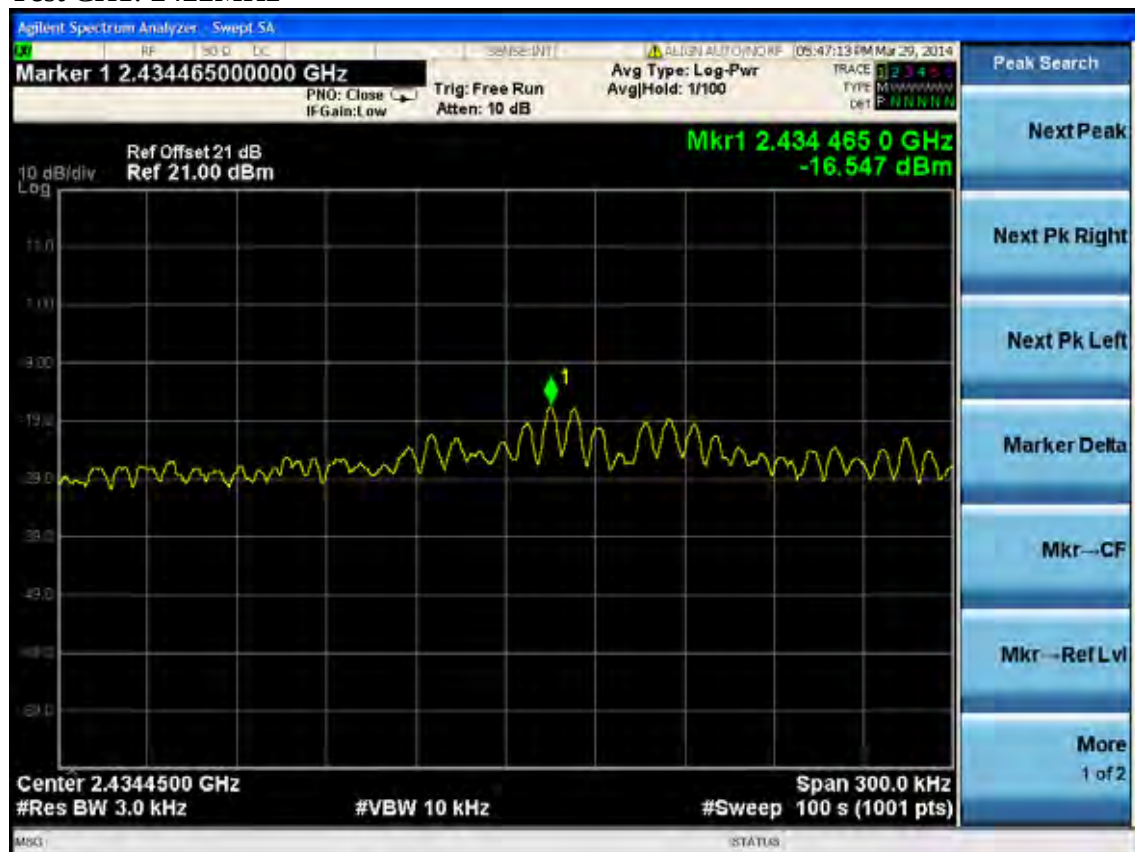


Test CH11: 2462MHz

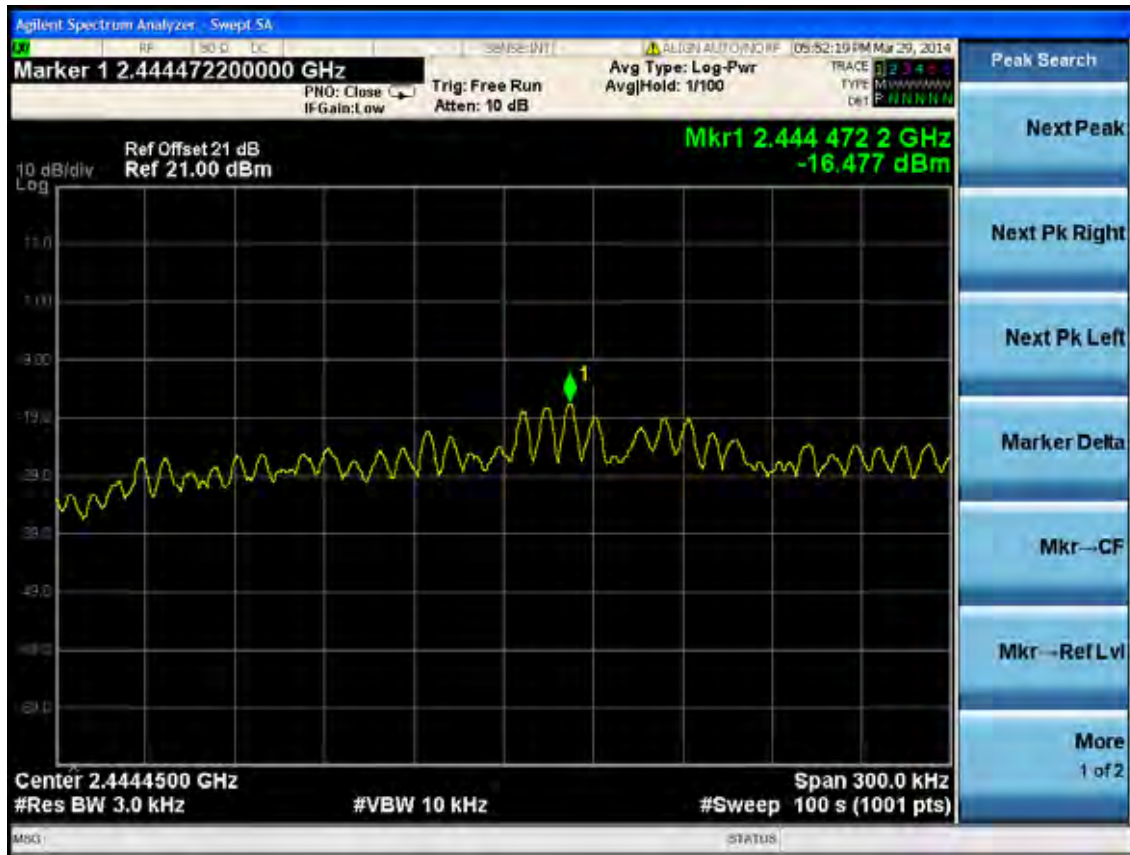


Test Mode: IEEE 802.11n HT40 TX

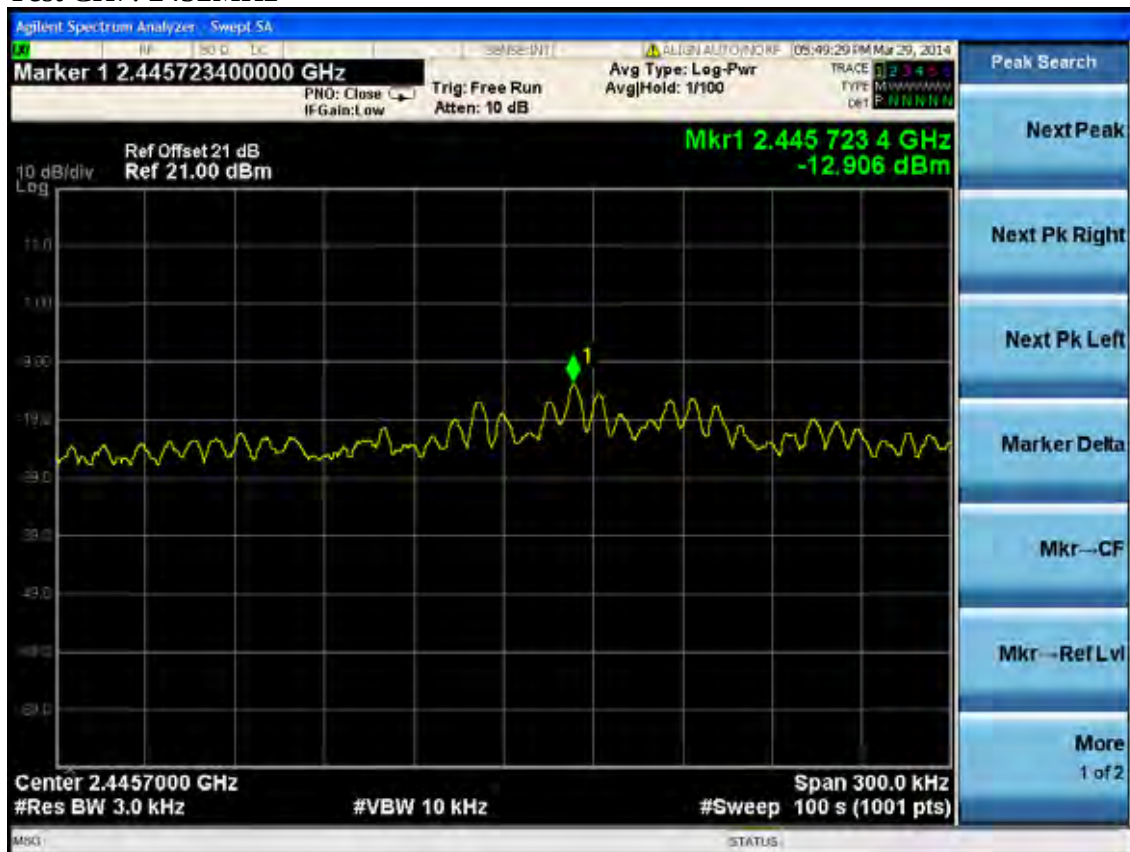
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



5.8G:

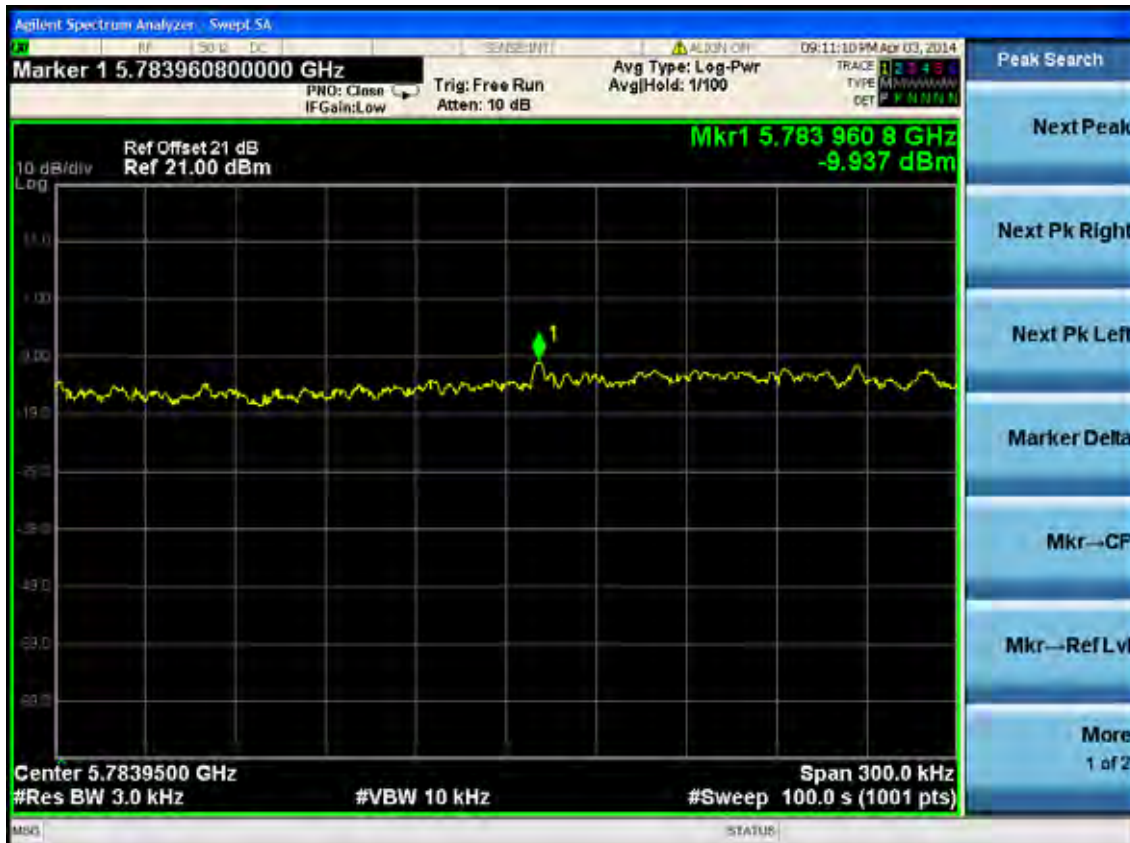
Chain 0:

Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



Chain 1:

Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz



Test CH157: 5785MHz



Test CH165: 5825MHz



Test Mode: IEEE 802.11n HT20 TX

Test CH149: 5745MHz



Test CH157: 5785MHz

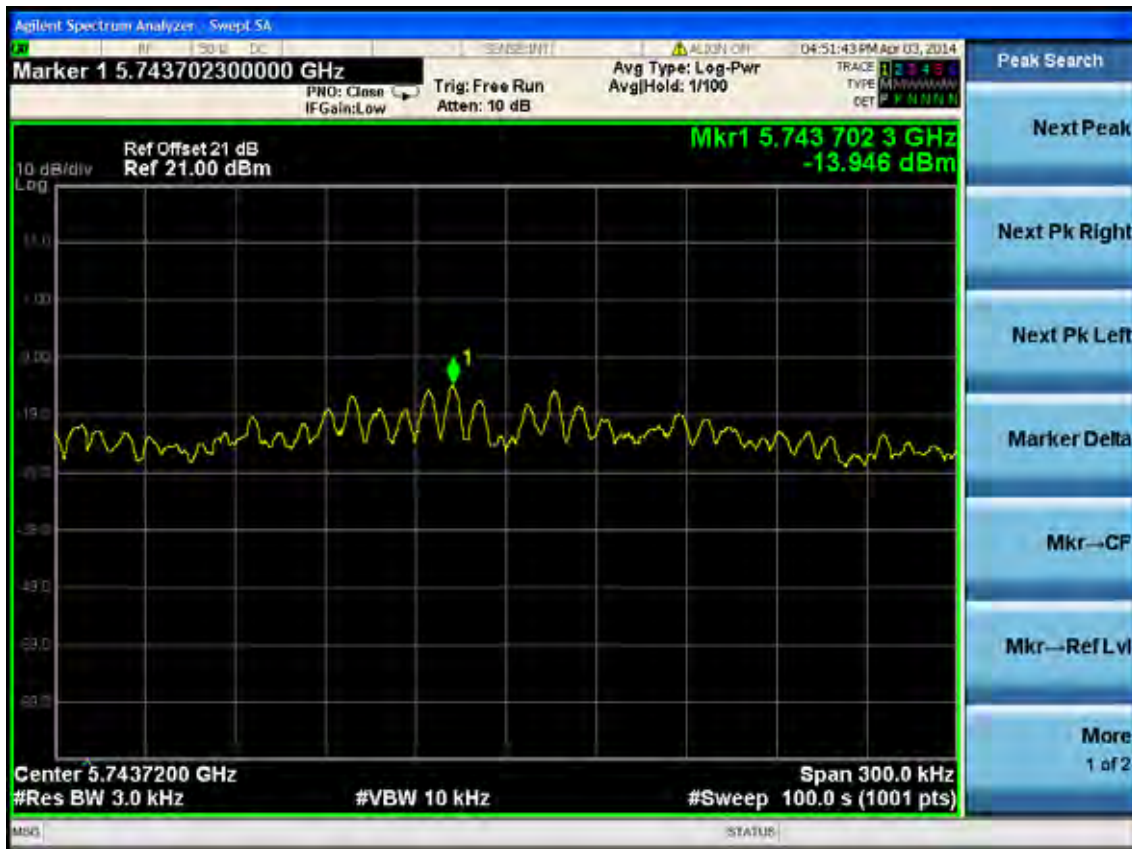


Test CH165: 5825MHz

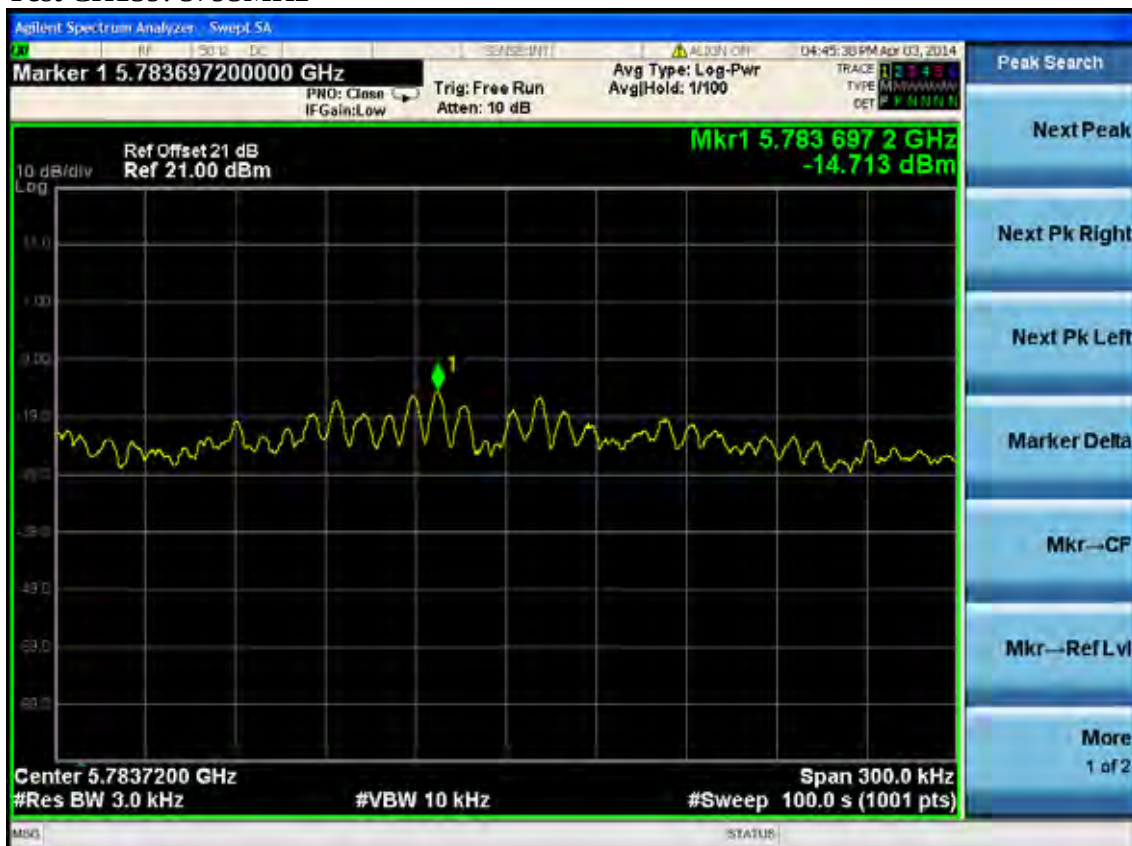


Test Mode: IEEE 802.11n HT40 TX

Test CH151: 5755MHz



Test CH159: 5795MHz



10.MPE ESTIMATION

10.1.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

10.2. Estimation Result

2.4GHz

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.2±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:20.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 2.5dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH1	2412	22.65	184.08	2.5	1.78	0.0652
	CH6	2437	22.62	182.81	2.5	1.78	0.0647
	CH11	2462	22.35	171.79	2.5	1.78	0.0608
11n HT20	CH1	2412	21.94	156.31	2.5	1.78	0.0553
	CH6	2437	27.19	523.60	2.5	1.78	0.1853
	CH11	2462	22.45	175.79	2.5	1.78	0.0622
11n HT40	CH1	2422	21.55	142.89	2.5	1.78	0.0506
	CH4	2437	26.64	461.32	2.5	1.78	0.1633
	CH7	2452	21.97	157.40	2.5	1.78	0.0557

5.8GHz

EUT:Wireless Speaker System		
M/N:SC-ALL3		
Test date: 2014-04-04	Pressure: 101.3±1.0 kpa	Humidity: 48.4±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 4.3dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH149	5745	24.41	276.06	4.3	2.69	0.1479
	CH157	5785	24.06	254.68	4.3	2.69	0.1364
	CH165	5825	23.12	205.12	4.3	2.69	0.1099
11n HT20	CH149	5745	24.04	253.51	4.3	2.69	0.1358
	CH157	5785	23.98	250.03	4.3	2.69	0.1340
	CH165	5825	22.75	188.36	4.3	2.69	0.1009
11n HT40	CH151	5755	23.20	208.93	4.3	2.69	0.1119
	CH159	5795	22.82	191.43	4.3	2.69	0.1026

11. ANTENNA REQUIREMENT

11.1. 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.

11.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are IFA 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 4.3dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]