

Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 865.10	-	Noise Level	-
26 167.80	-	Noise Level	-
34 570.75	-	Noise Level	-

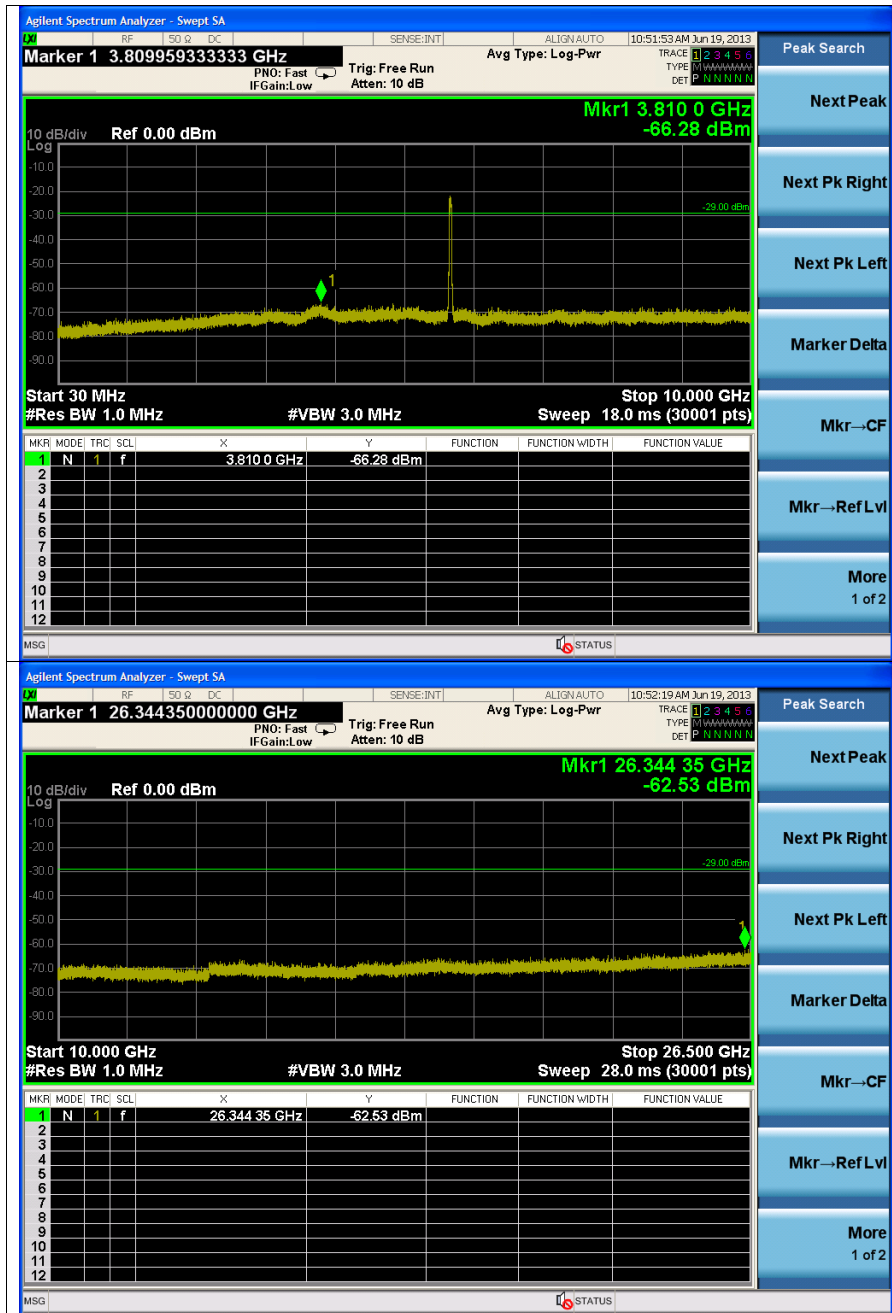
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5 670 MHz

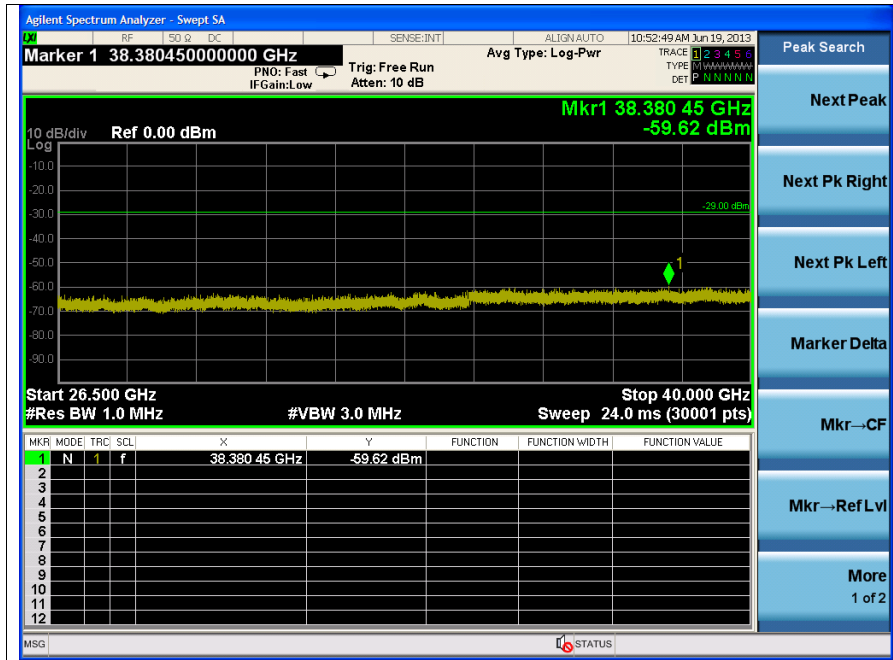


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 810.00	-	Noise Level	-
26 344.35	-	Noise Level	-
38 380.45	-	Noise Level	-

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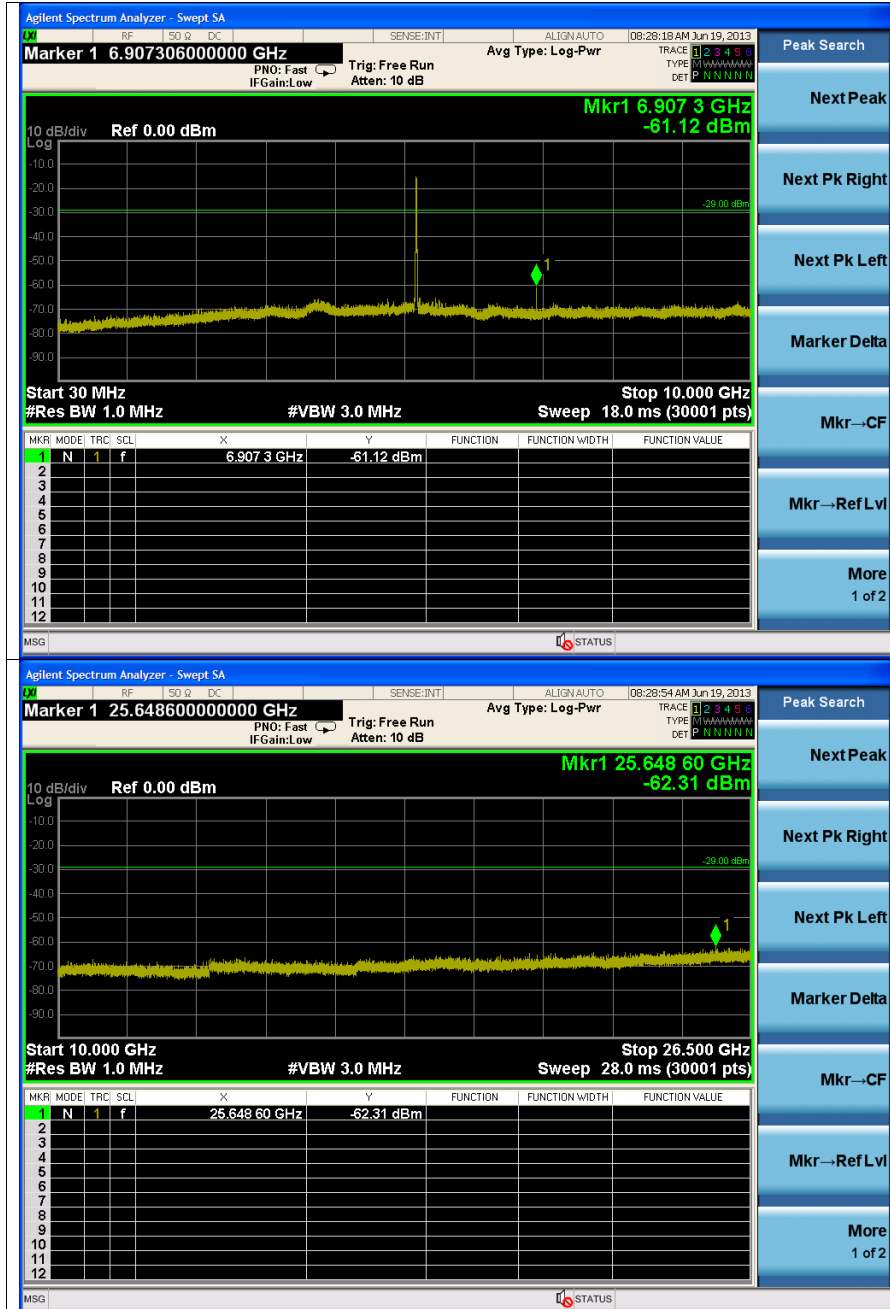
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ANT1

For 5.15 – 5.25 GHz, the antenna gain is -1.42 dB i, So the EIRP limit is -29.00 dB m/MHz

802.11a (Non-DFS)_6 Mbps

5 180 MHz

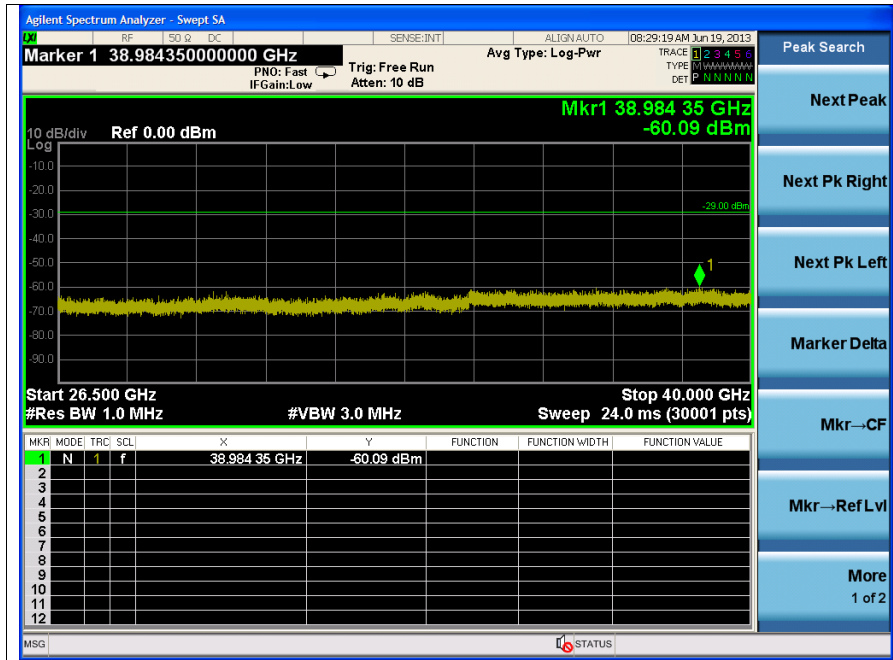


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 907.30	22.05	-61.12	-39.07
25 648.60	-	Noise Level	-
38 984.35	-	Noise Level	-

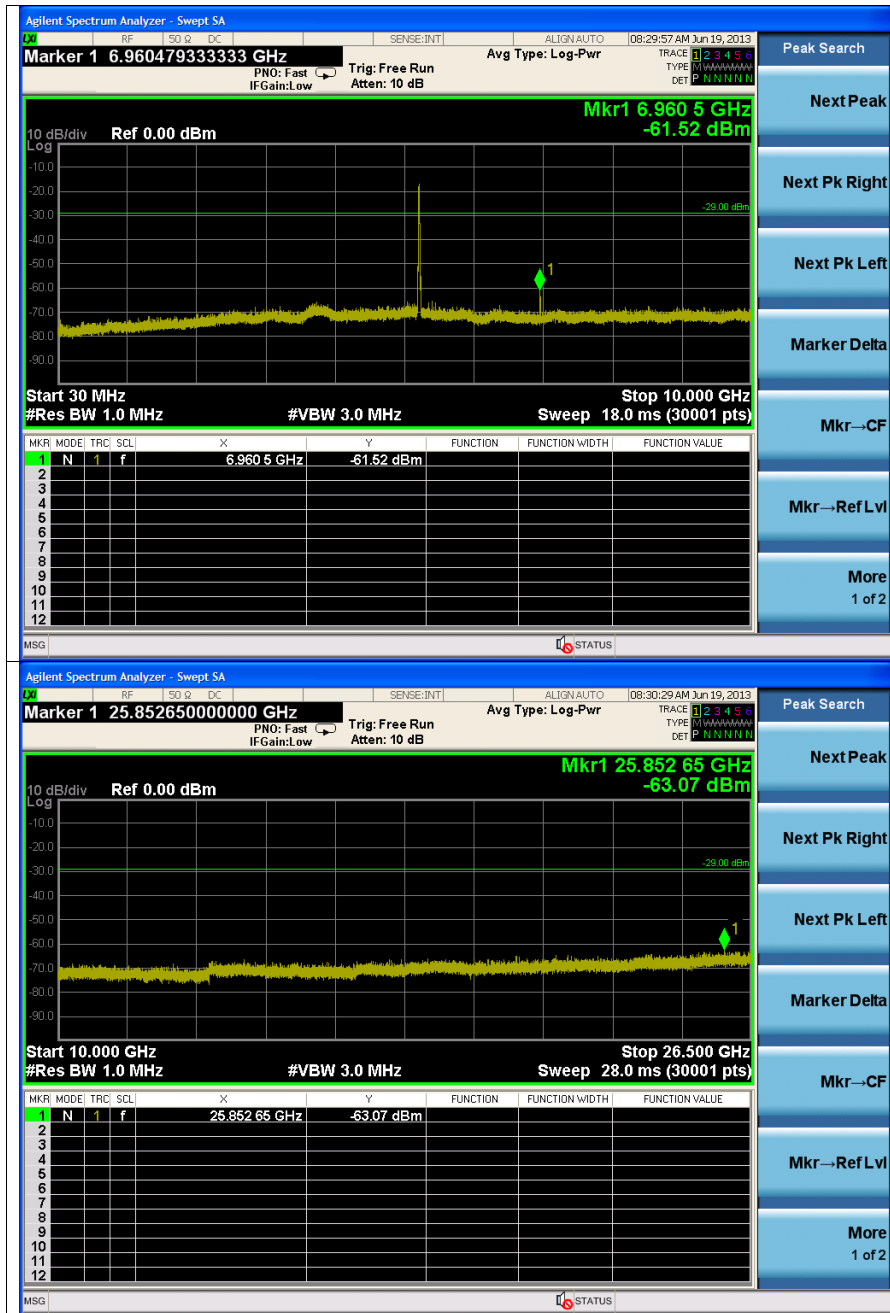
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5 220 MHz

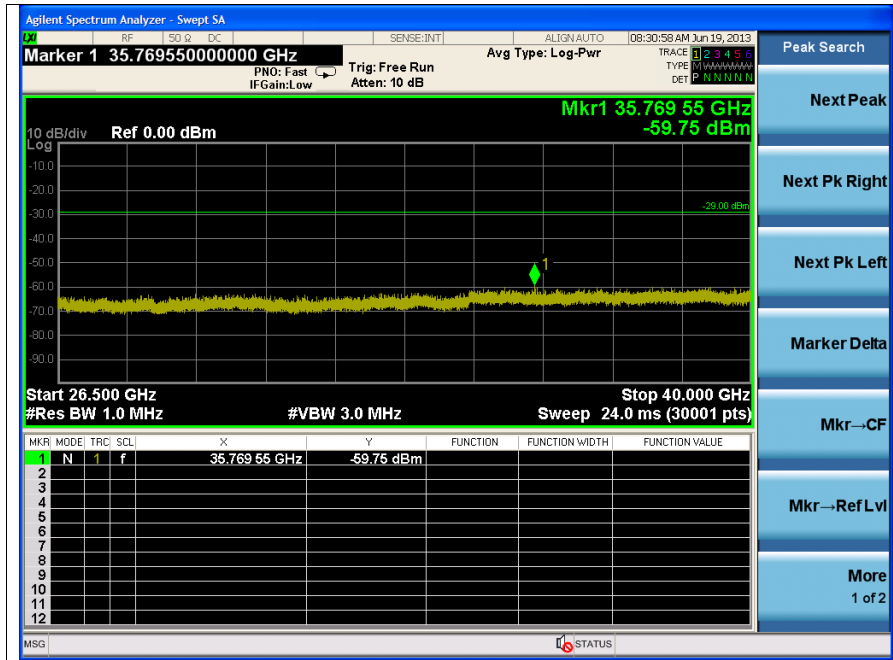


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 960.50	22.05	-61.52	-39.47
25 852.65	-	Noise Level	-
35 769.55	-	Noise Level	-

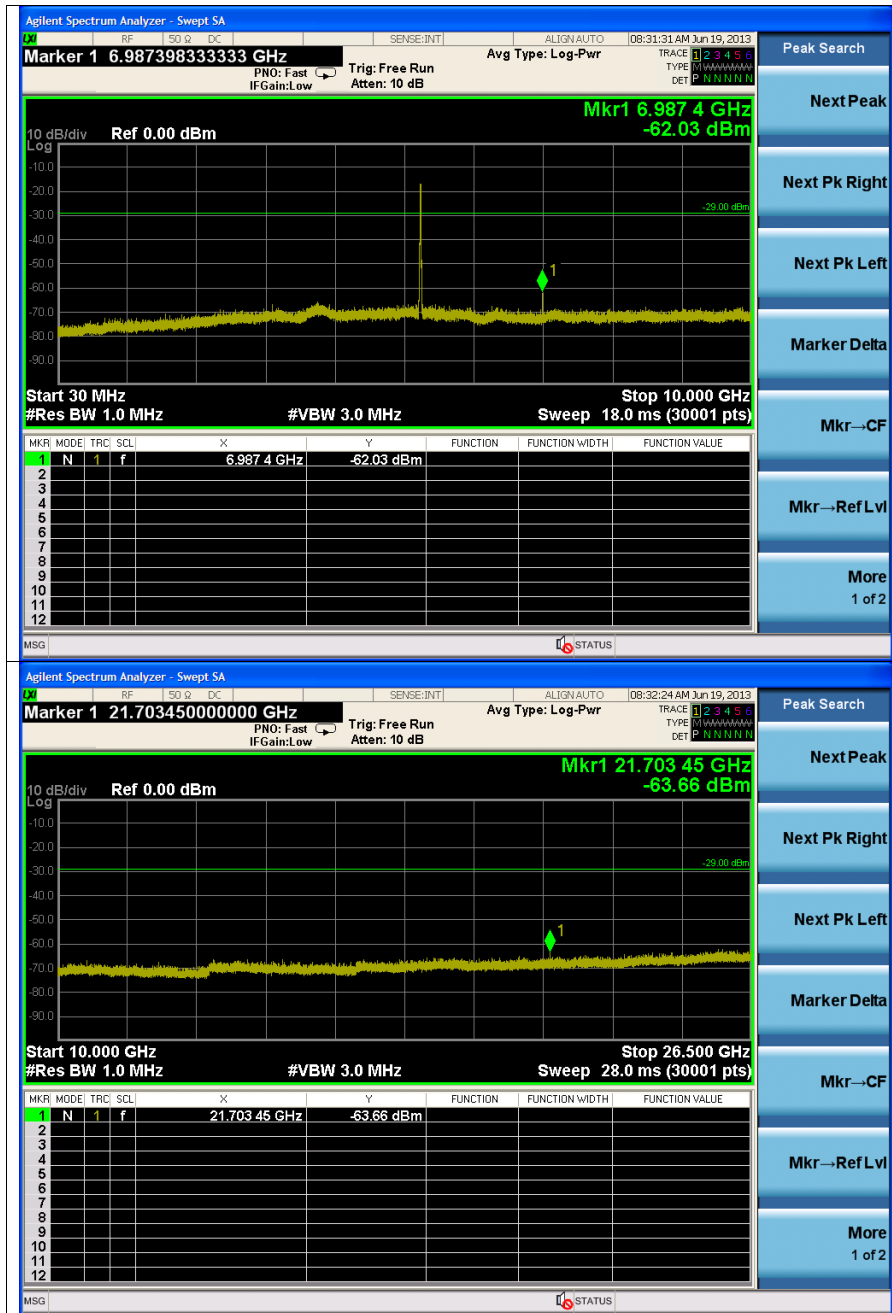
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5 240 MHz

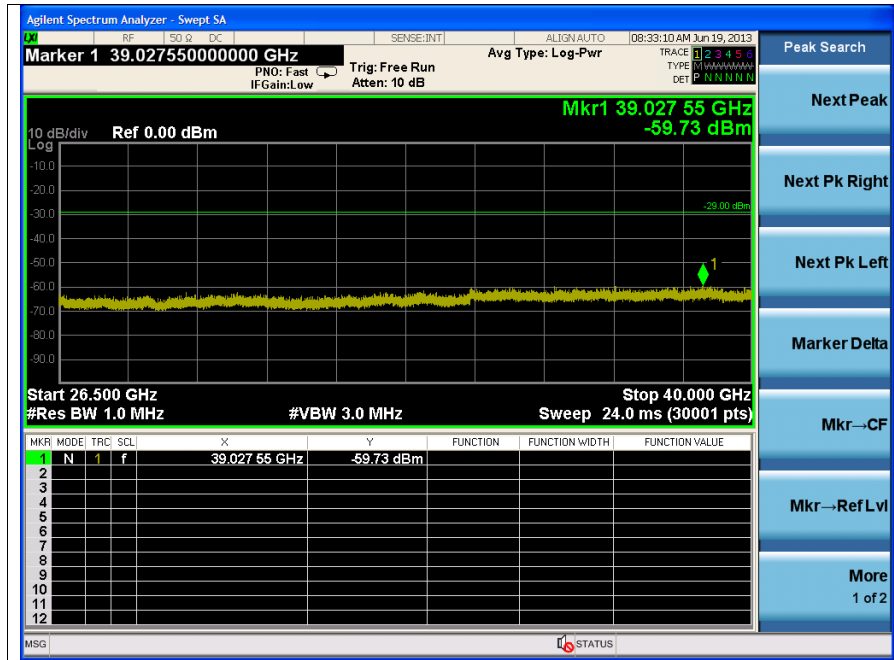


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 987.40	22.07	-62.03	-39.96
21 703.45	-	Noise Level	-
39 027.55	-	Noise Level	-

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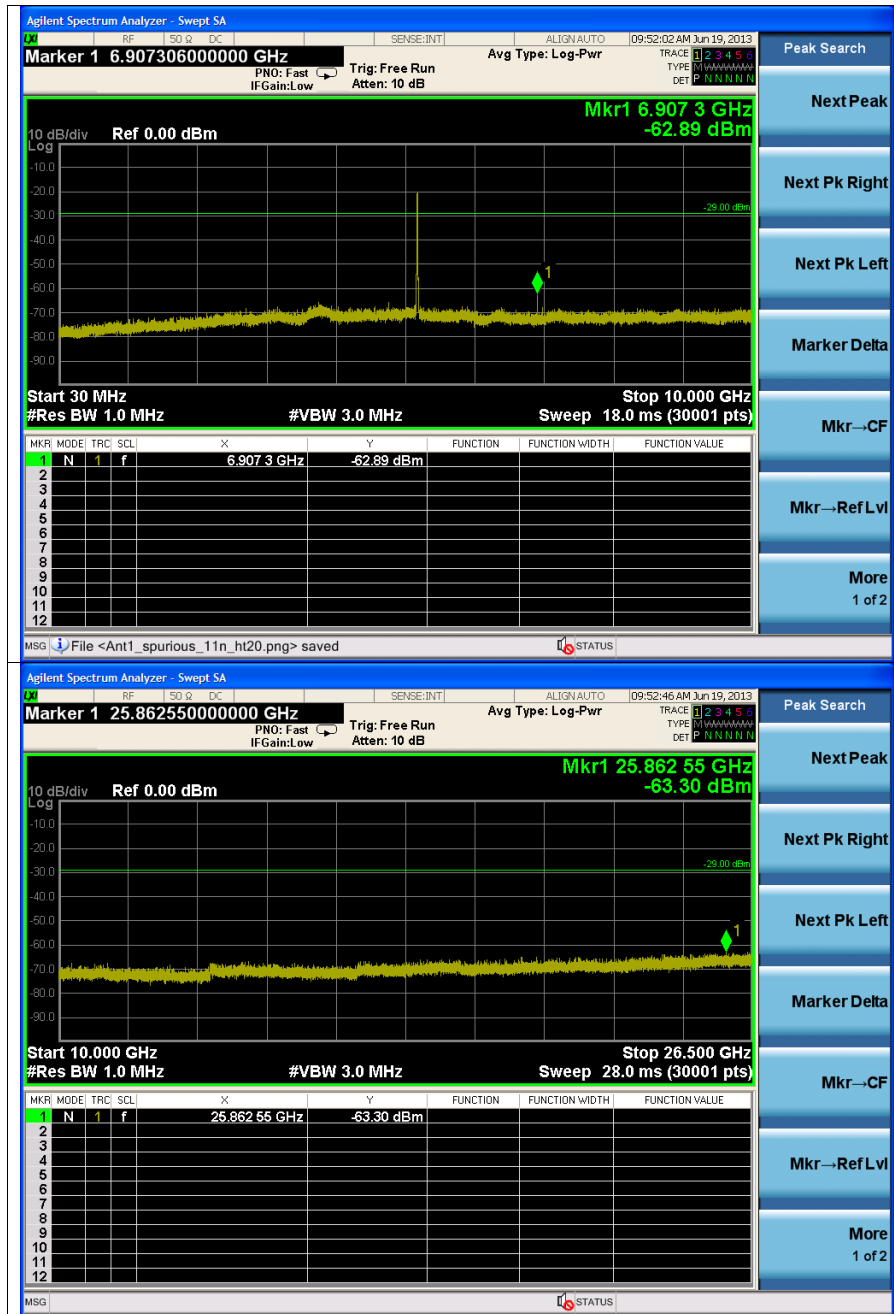
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802.11n_HT20 (Non-DFS)_MCS0

5 180 MHz

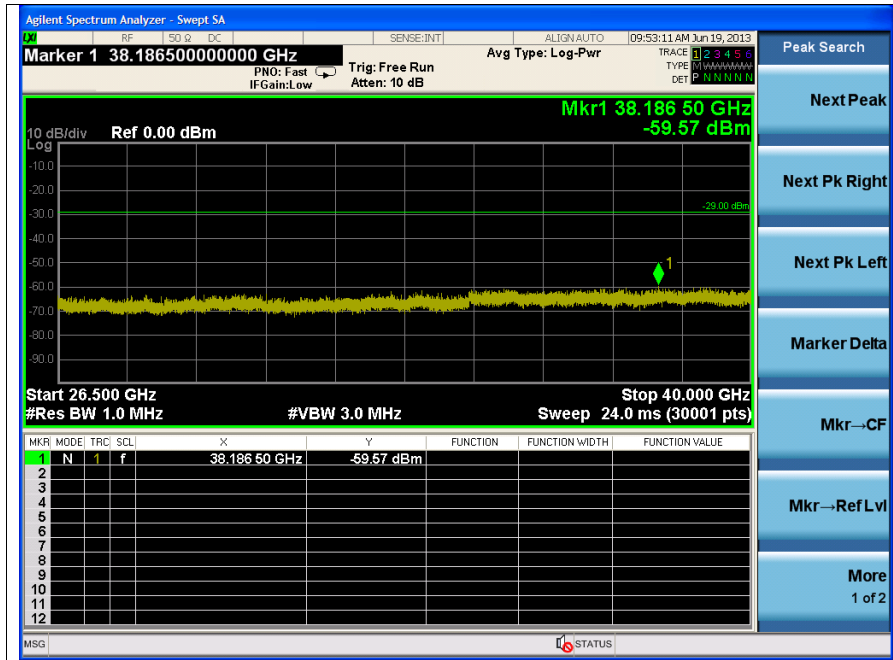


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 907.30	22.05	-62.89	-40.84
25 862.55	-	Noise Level	-
38 186.50	-	Noise Level	-

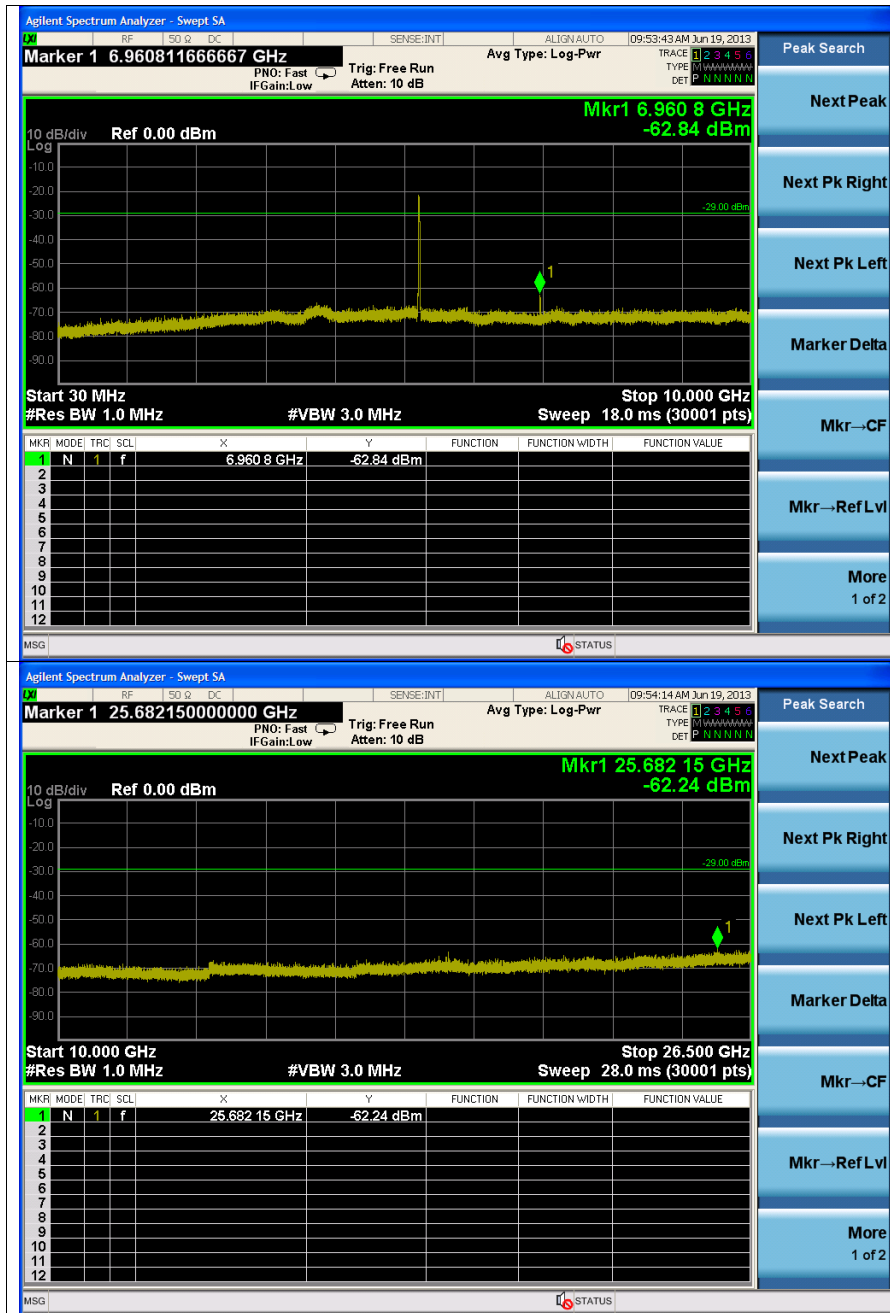
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5 220 MHz

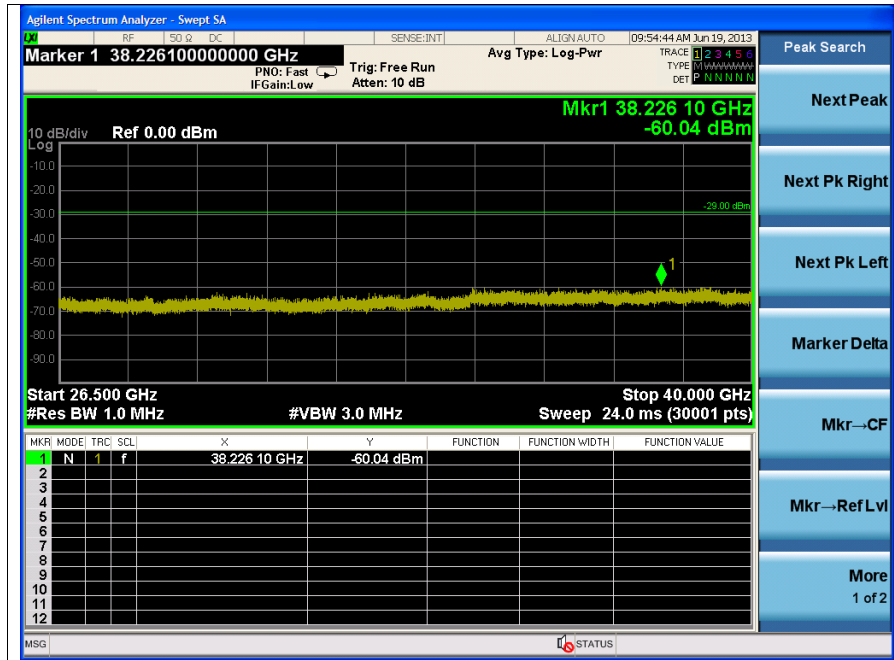


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 960.80	22.05	-62.84	-40.79
25 682.15	-	Noise Level	-
38 226.10	-	Noise Level	-

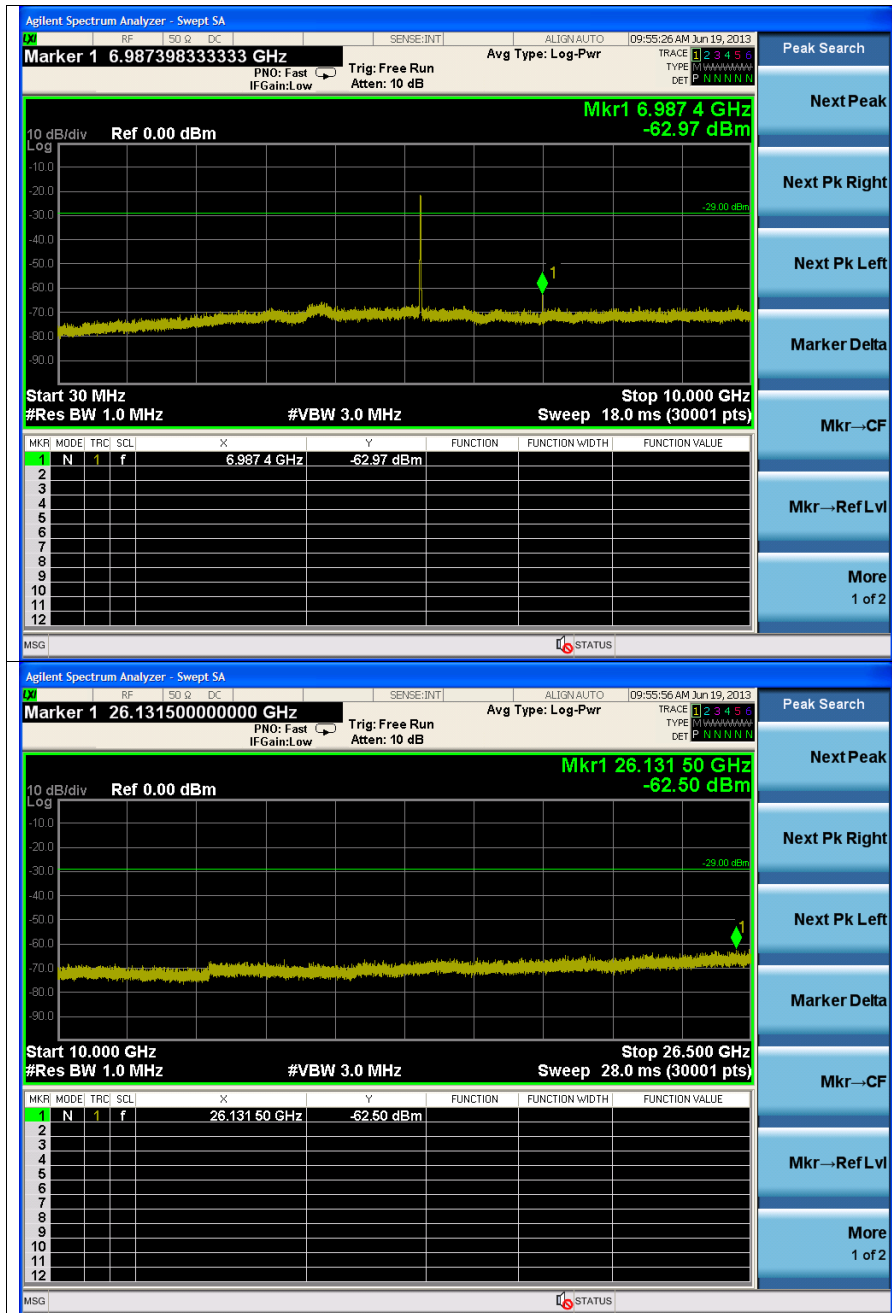
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5 240 MHz

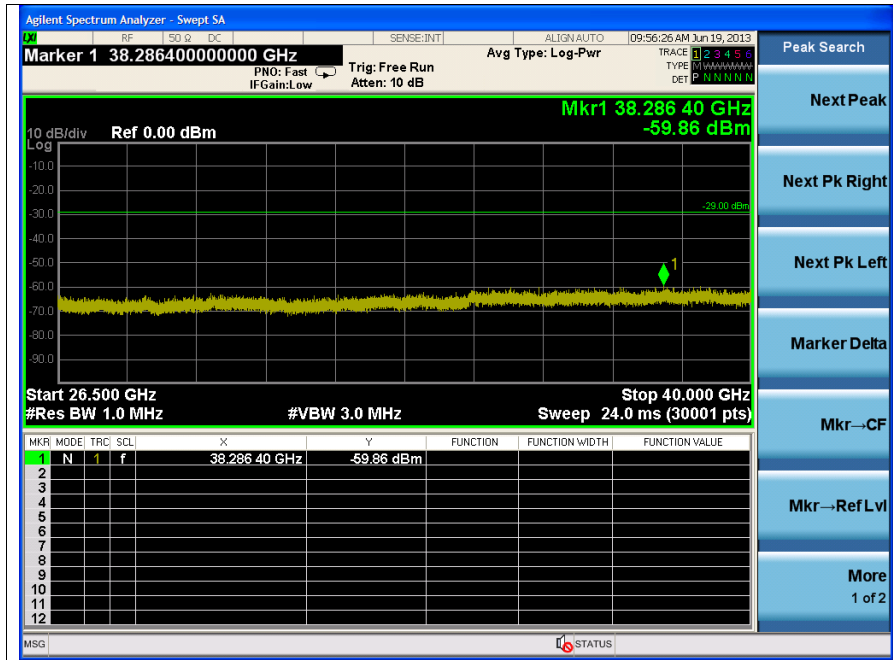


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 987.40	22.07	-62.97	-40.90
26 131.50	-	Noise Level	-
38 286.40	-	Noise Level	-

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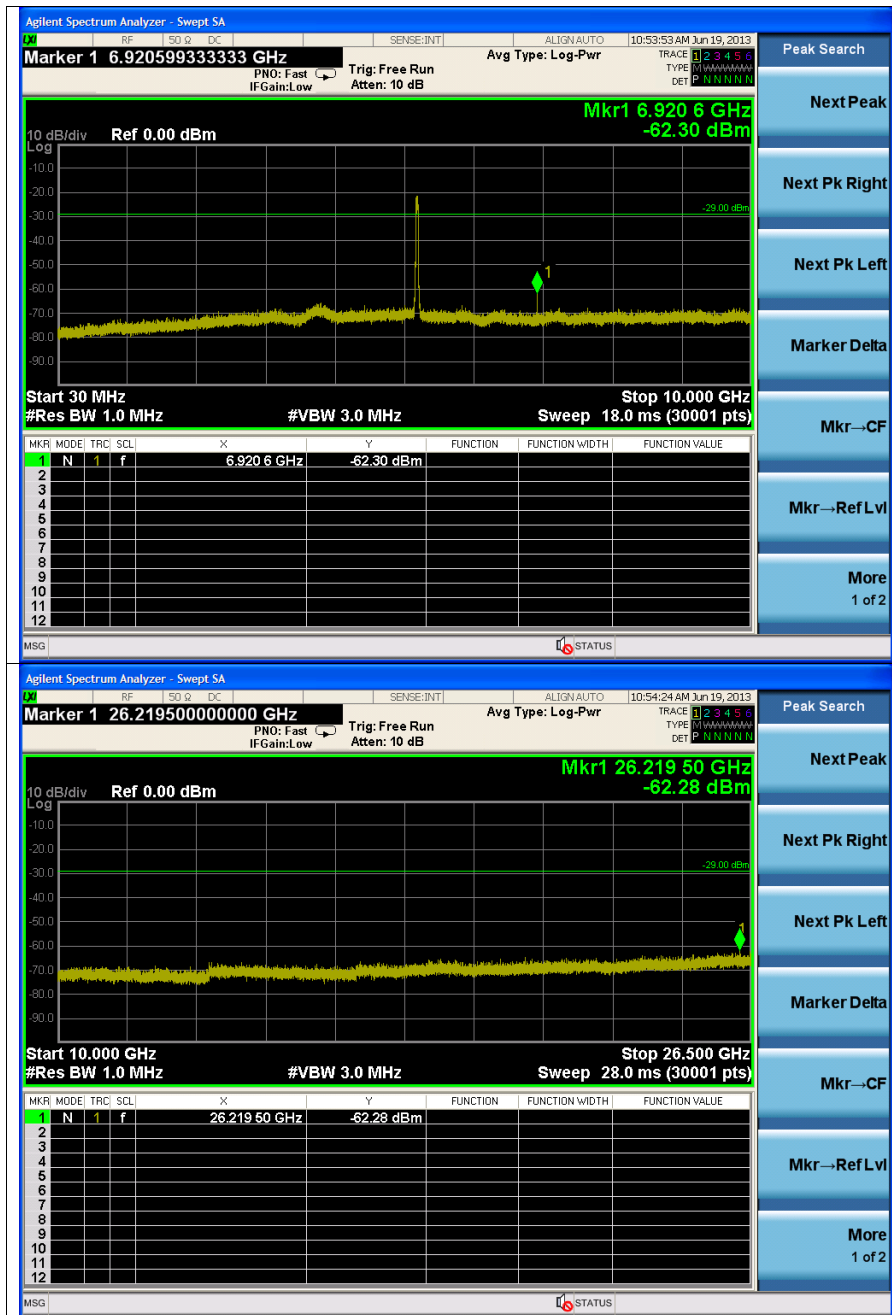
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802.11n_HT40 (Non-DFS)_MCS0

5 190 MHz

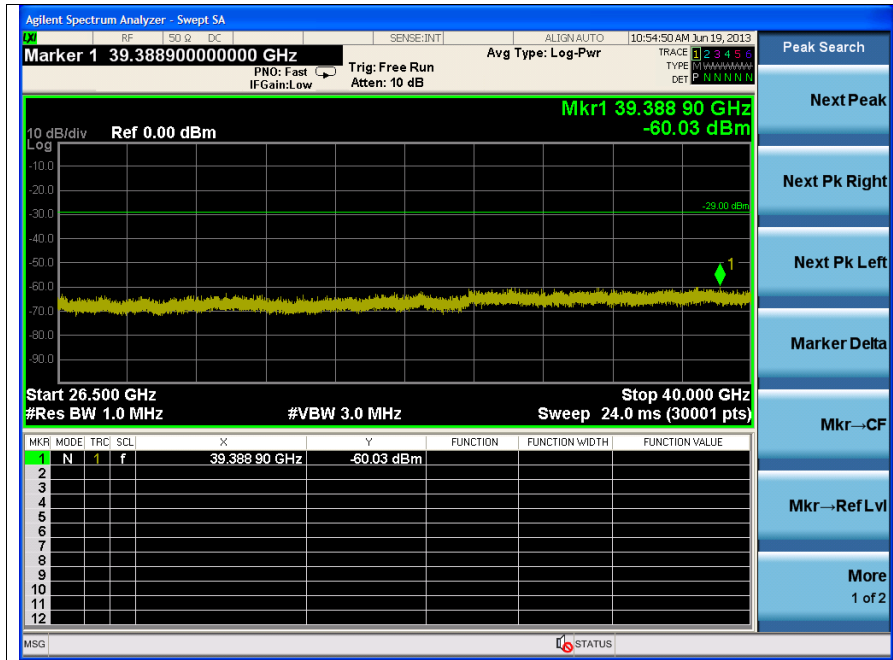


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 920.60	22.05	-62.30	-40.25
26 219.50	-	Noise Level	-
39 388.90	-	Noise Level	-

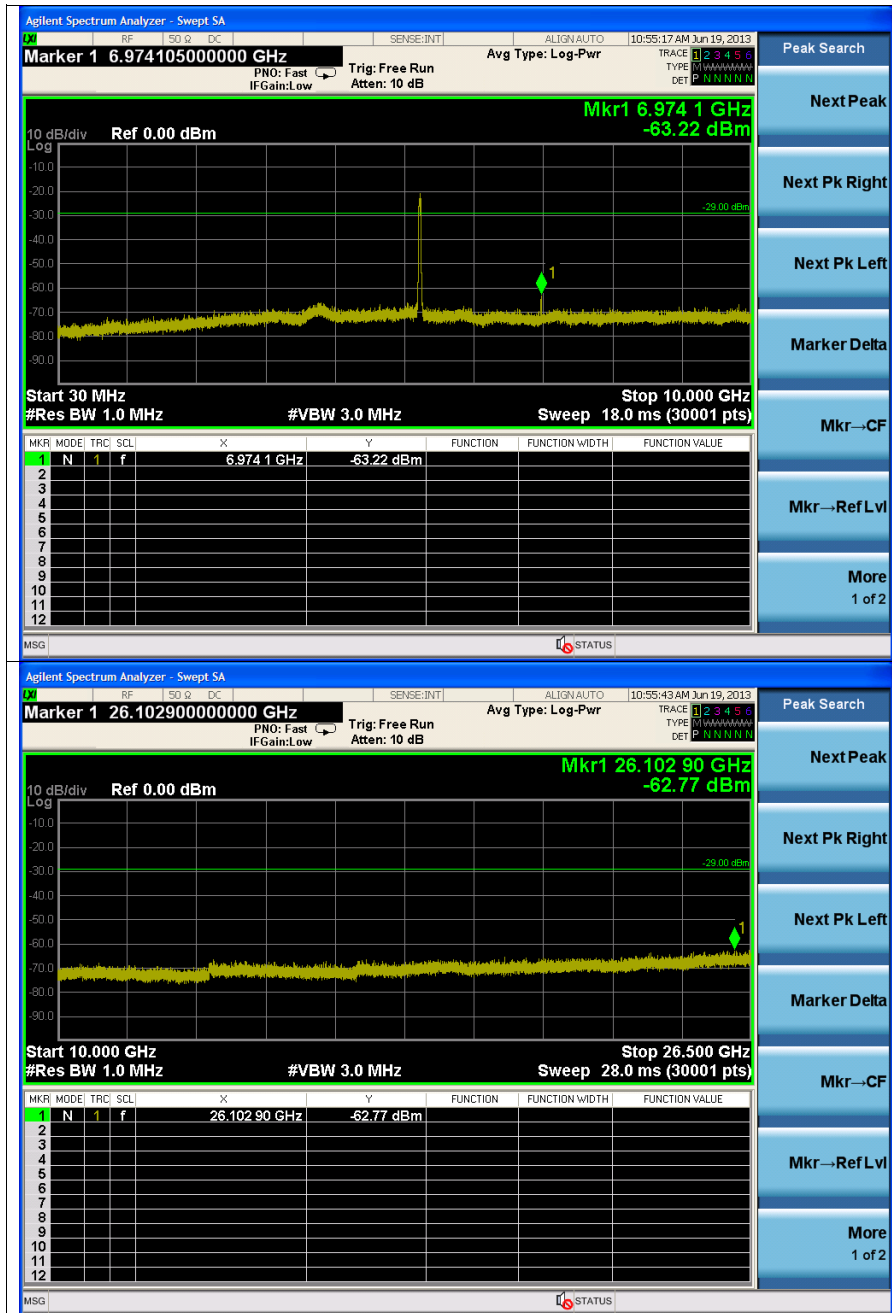
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5 230 MHz

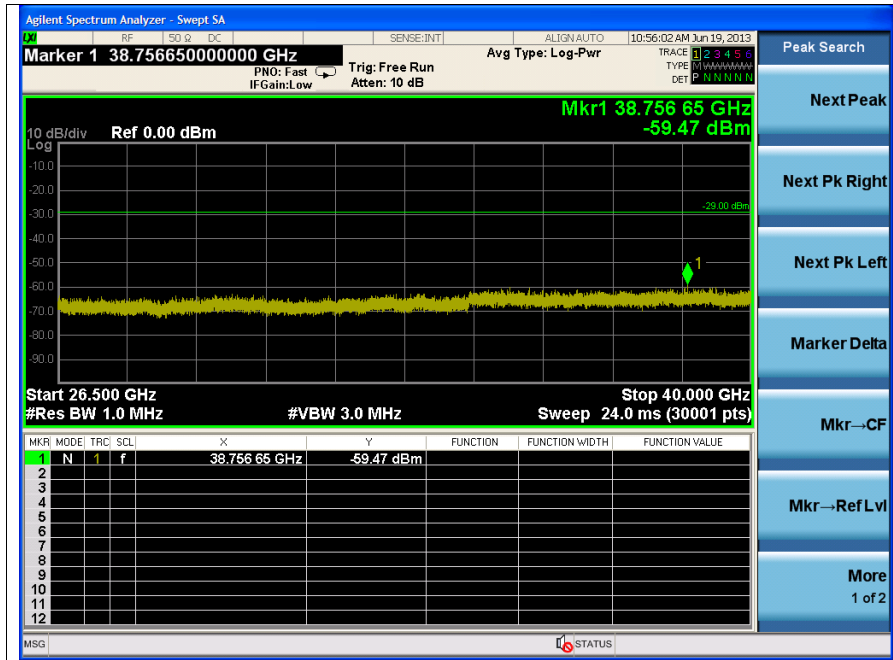


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
6 974.10	22.07	-63.22	-41.15
26 102.90	-	Noise Level	-
38 756.65	-	Noise Level	-

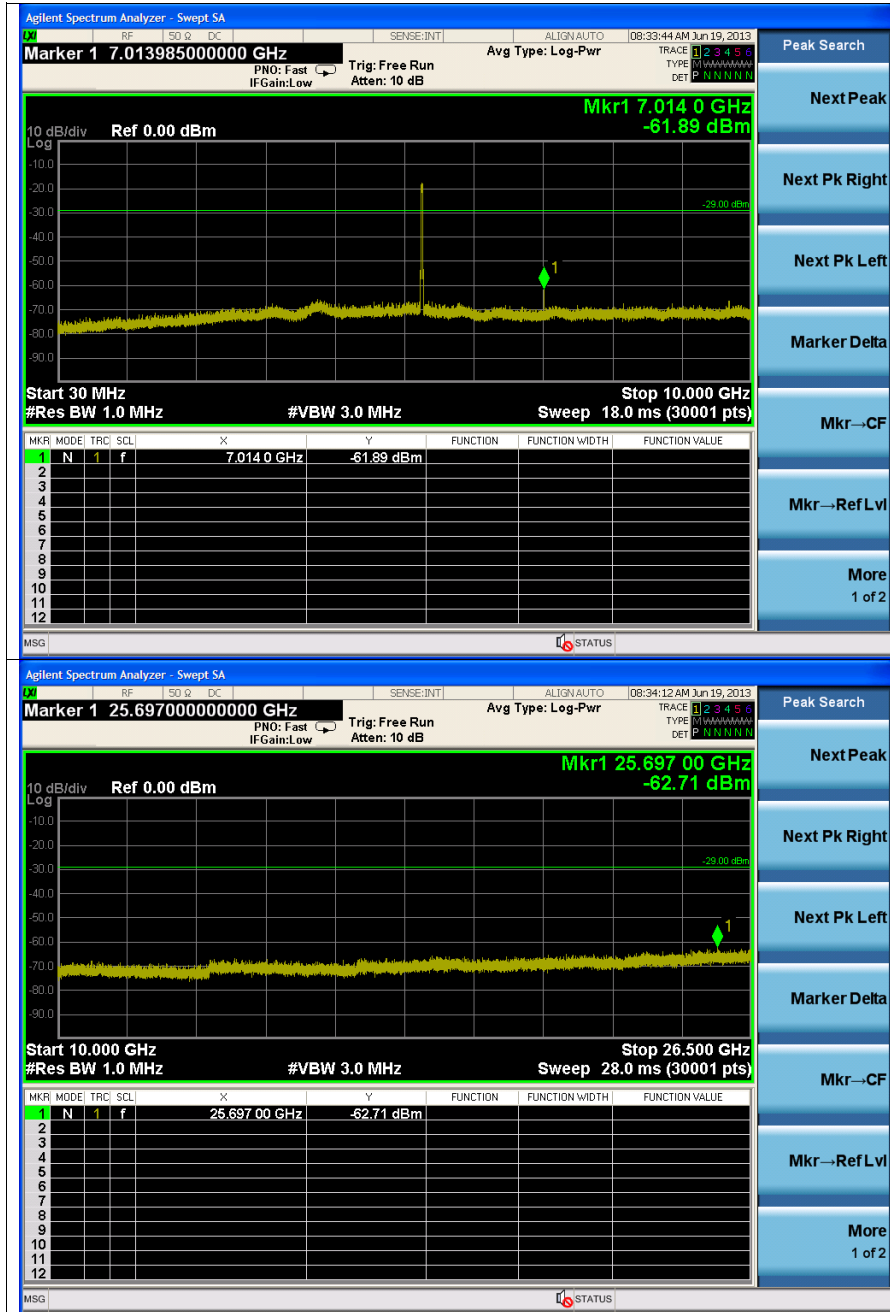
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For 5.25 – 5.725 GHz, the antenna gain is -2.36 dB i, So the EIRP limit is -29.00 dB m/Hz
 802.11a (DFS)_6 Mbps
 5 260 MHz

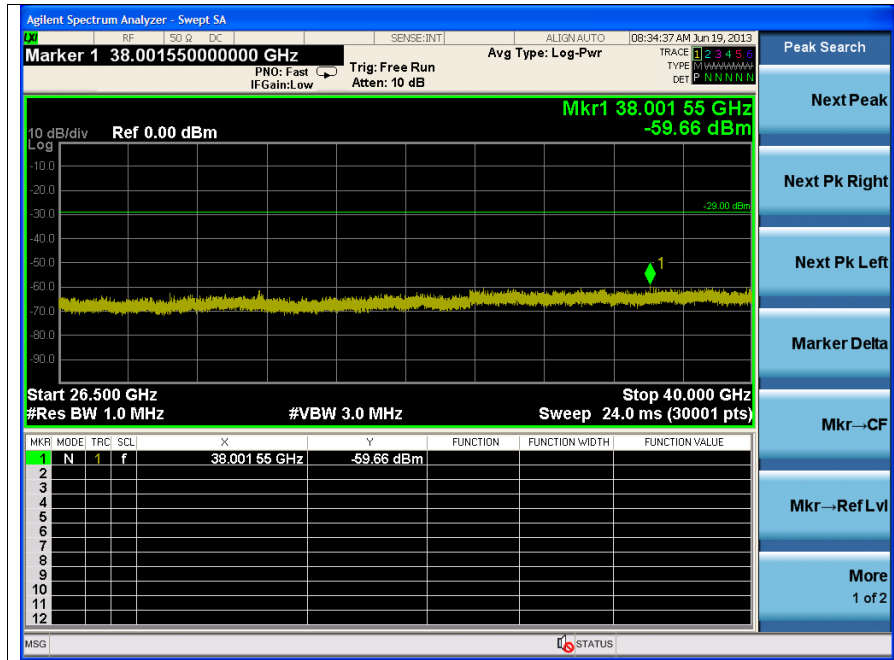


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 014.00	22.07	-61.89	-39.82
25 697.00	-	Noise Level	-
38 001.55	-	Noise Level	-

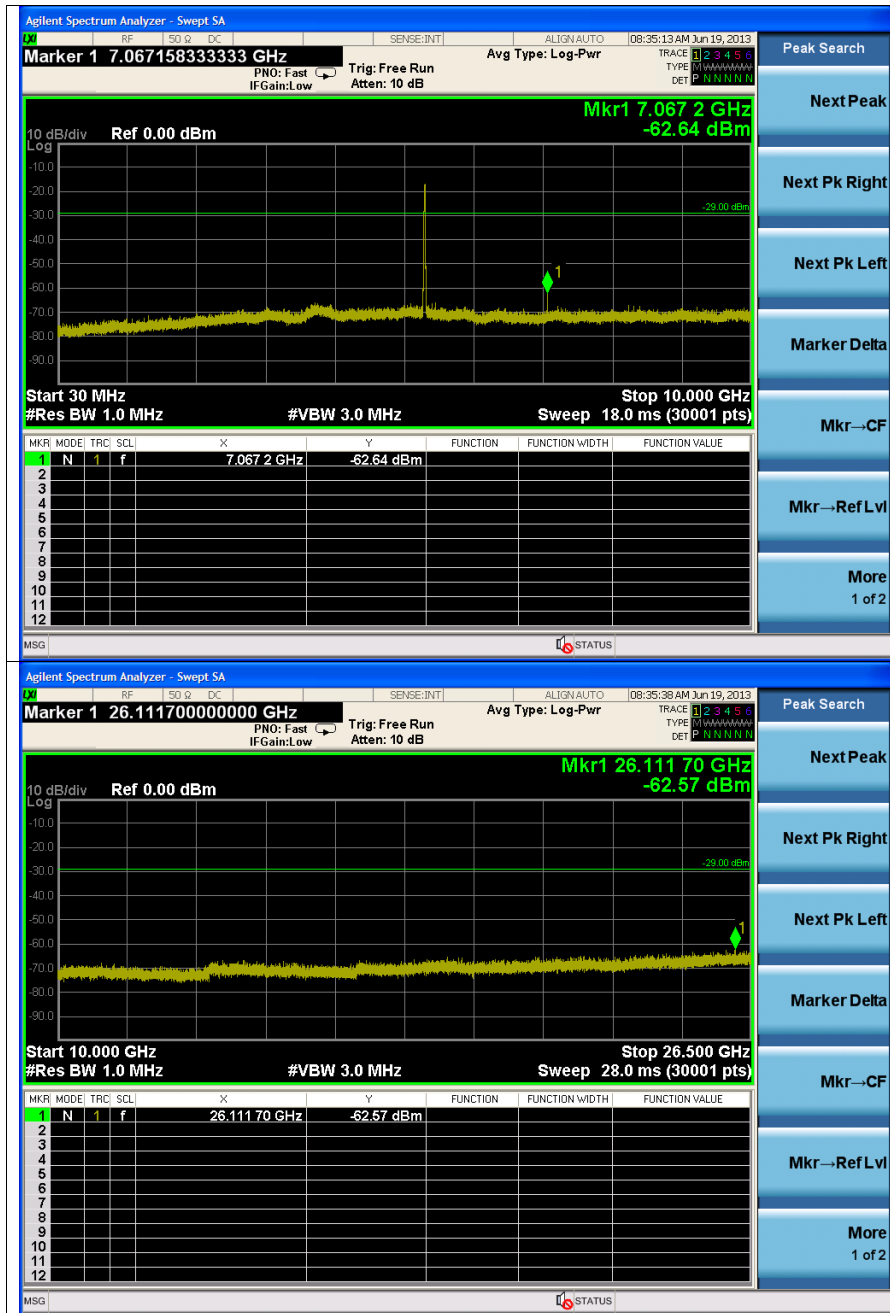
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5 300 MHz

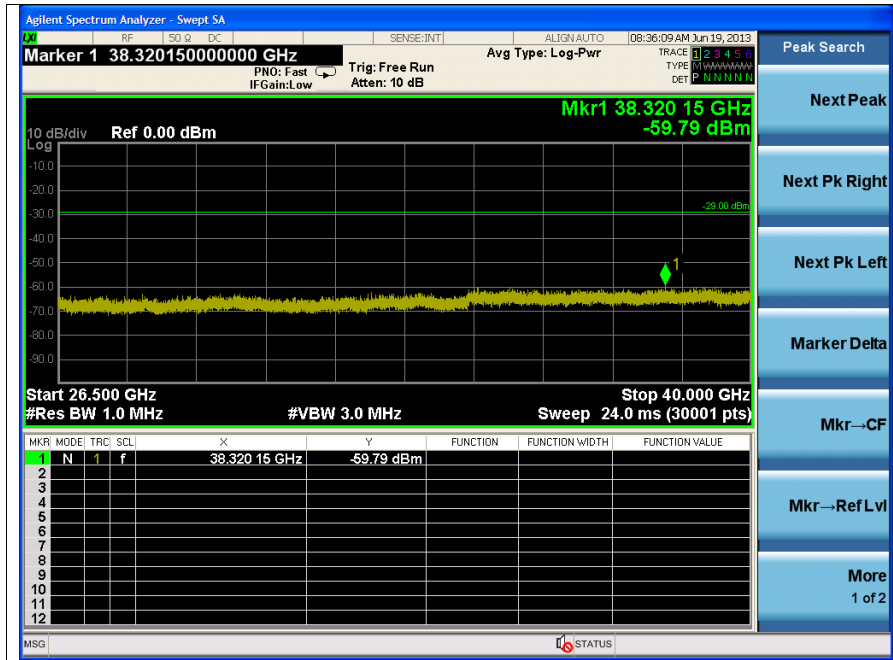


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 067.20	22.08	-62.64	-40.56
26 111.70	-	Noise Level	-
38 320.15	-	Noise Level	-

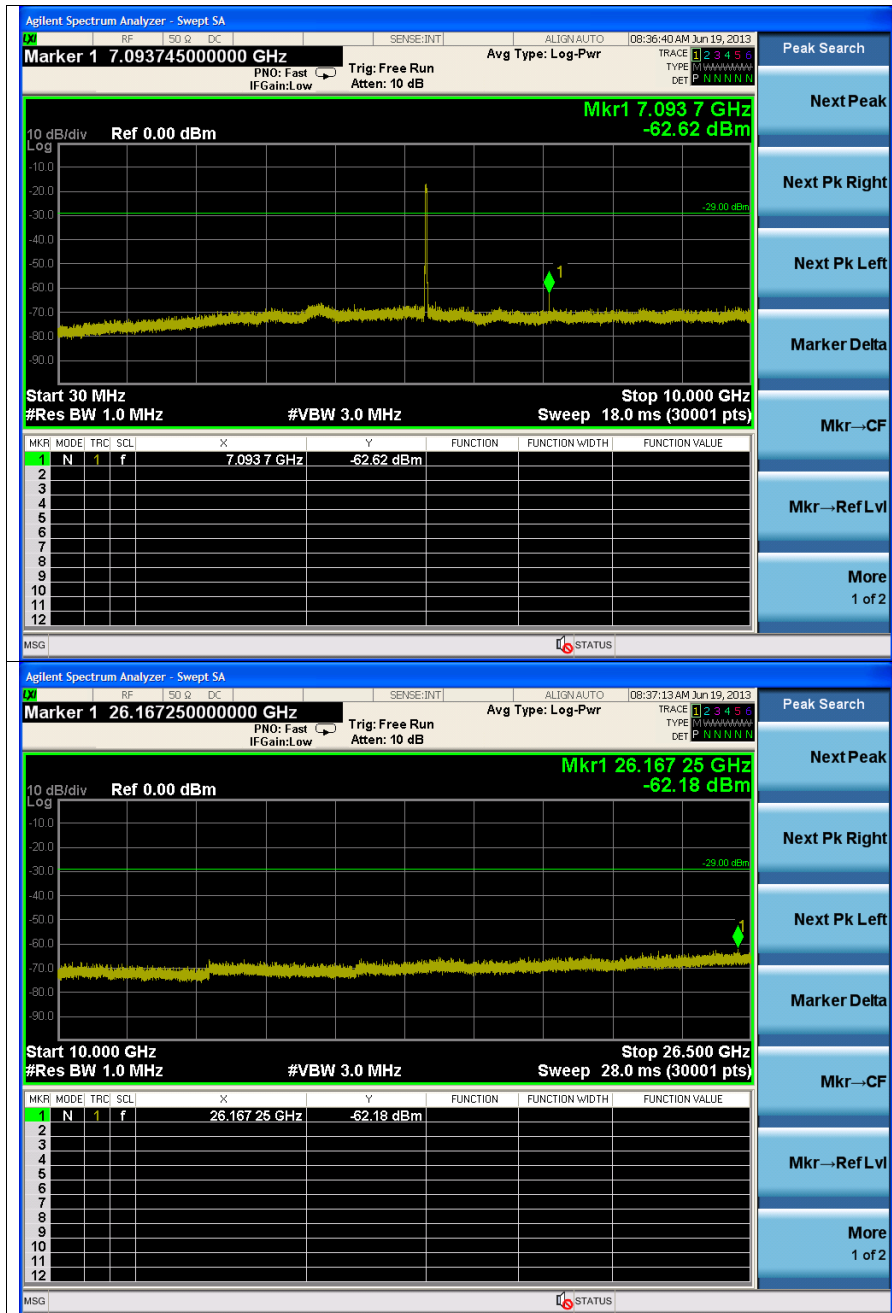
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5 320 MHz

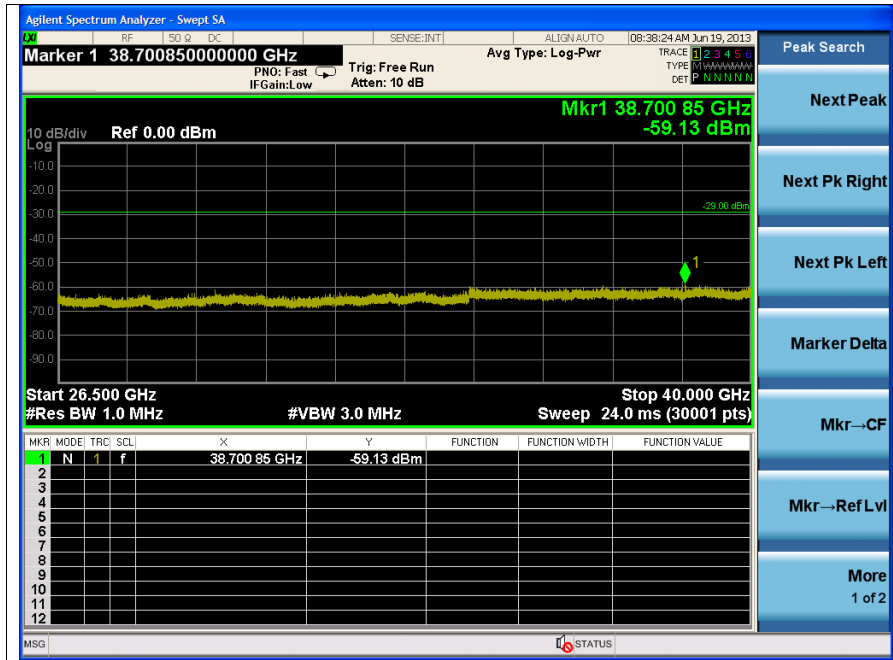


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 093.70	22.09	-62.62	-40.53
26 167.25	-	Noise Level	-
38 700.85	-	Noise Level	-

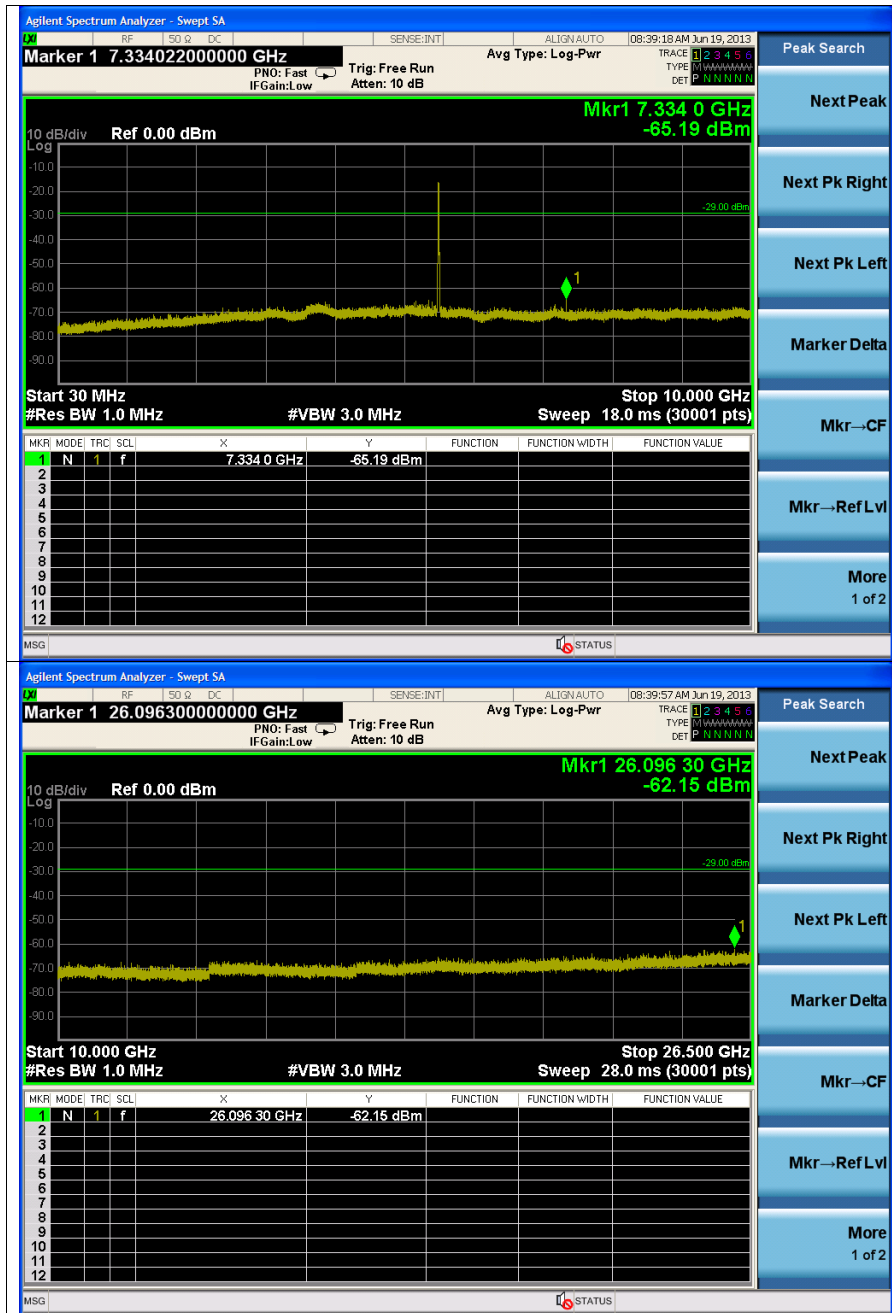
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5 500 MHz

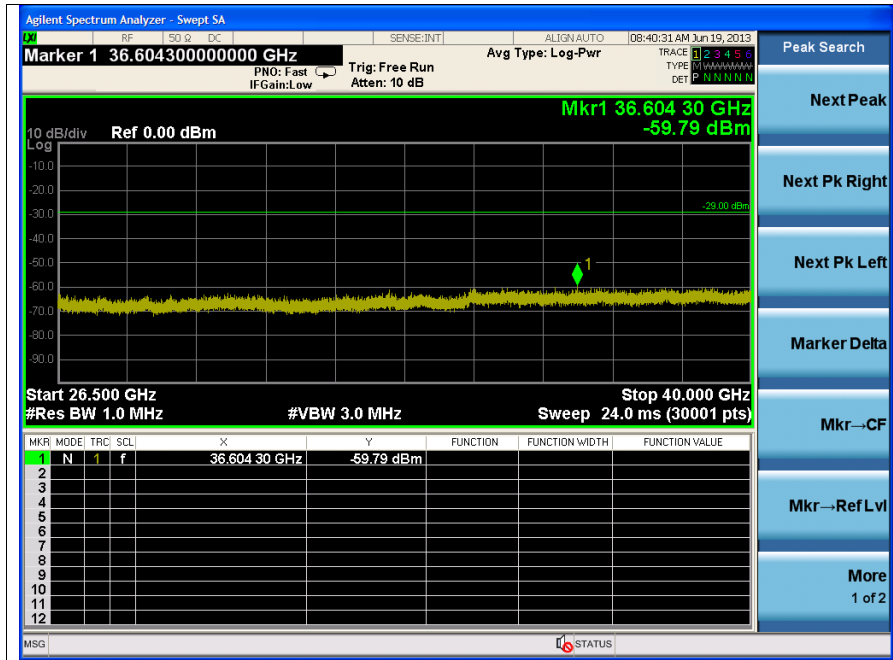


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 334.00	22.13	-65.19	-43.06
26 096.30	-	Noise Level	-
36 604.30	-	Noise Level	-

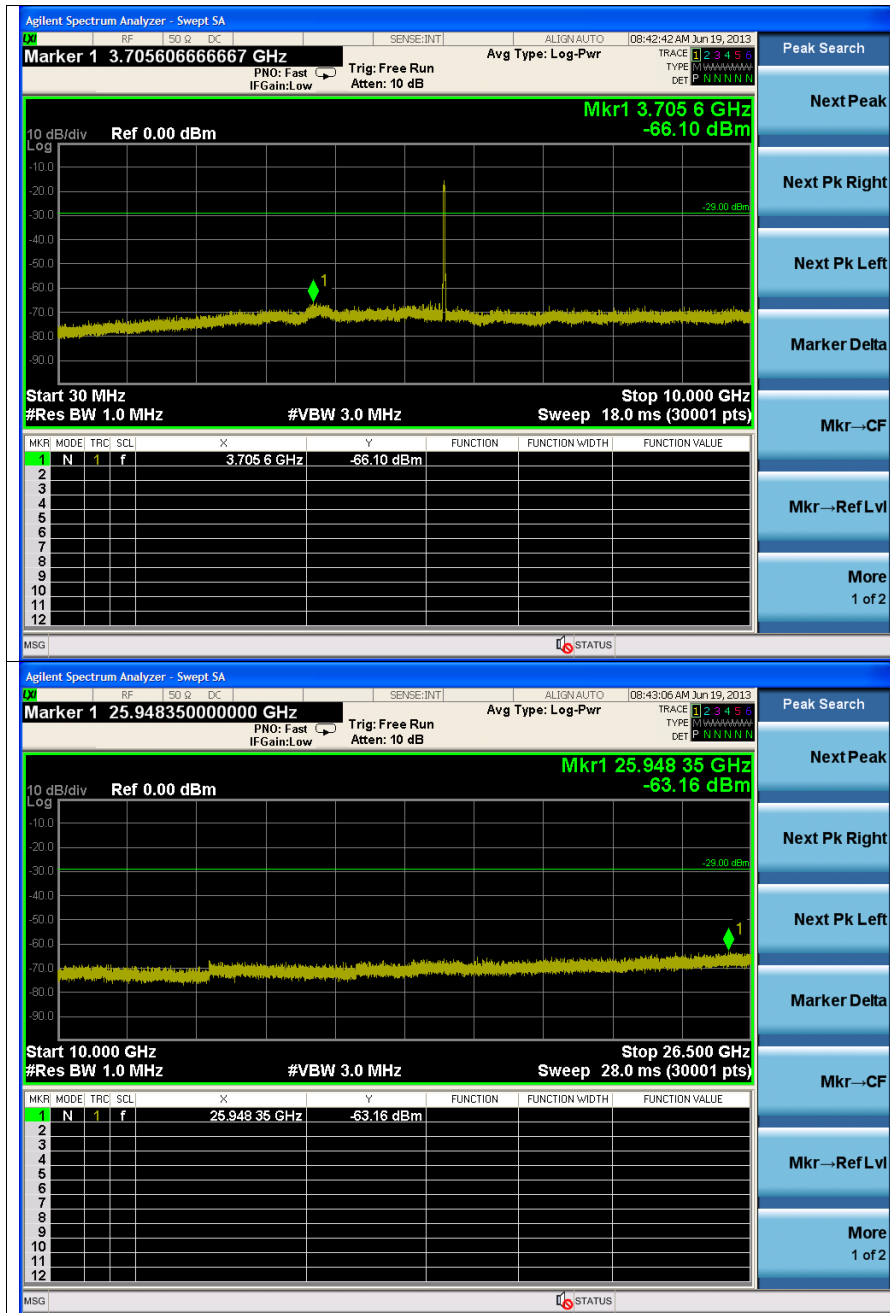
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5 580 MHz

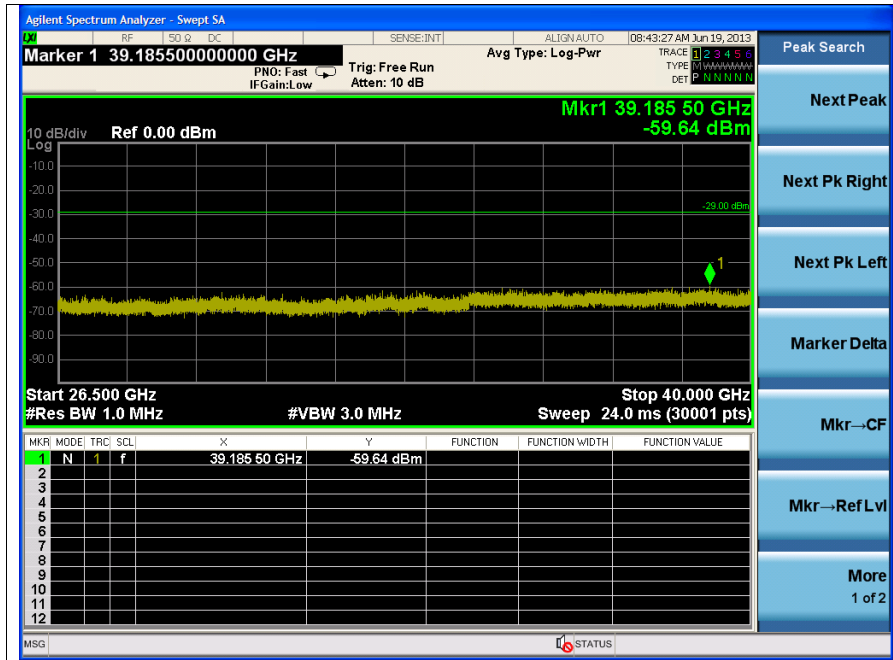


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 705.60	-	Noise Level	-
25 948.35	-	Noise Level	-
39 185.50	-	Noise Level	-

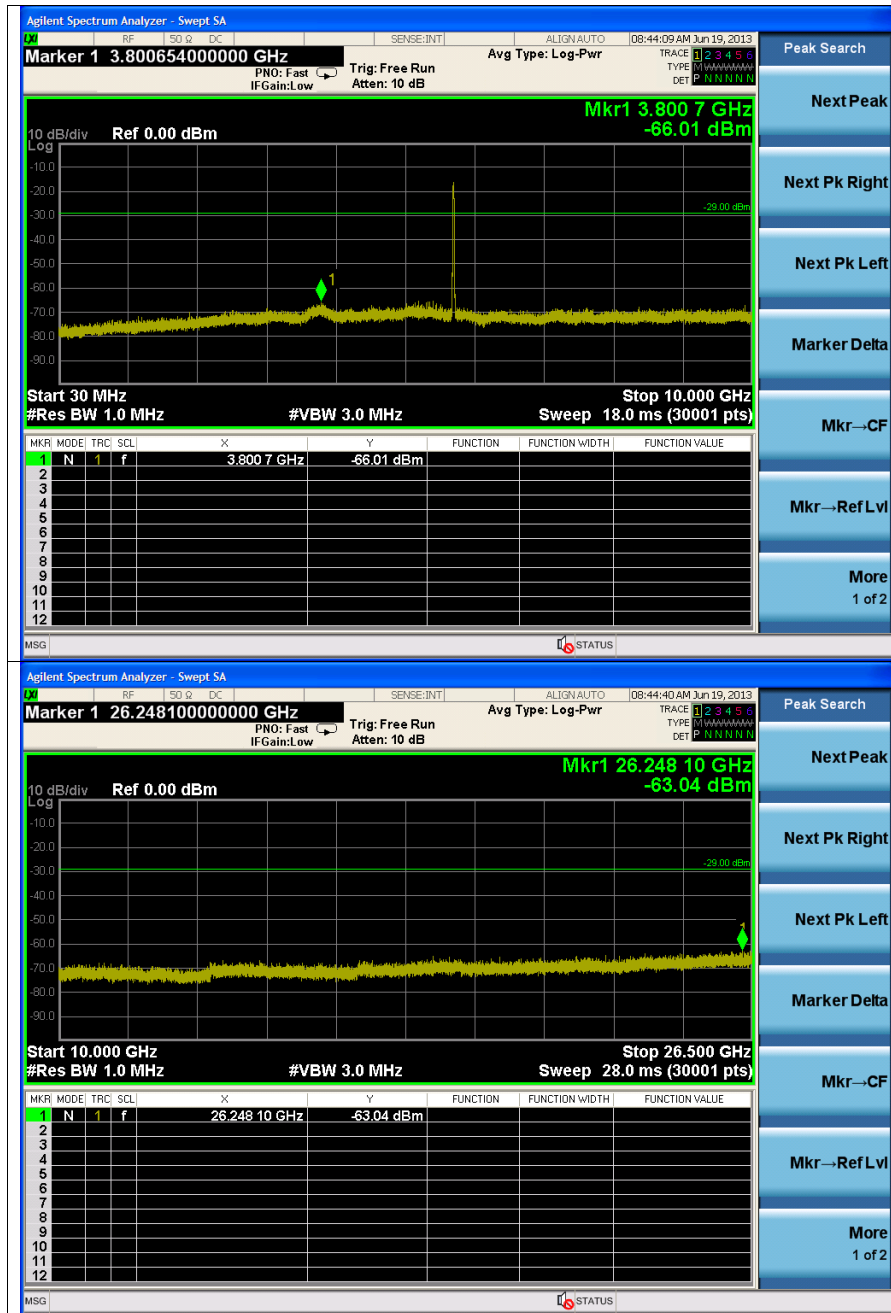
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5 700 MHz

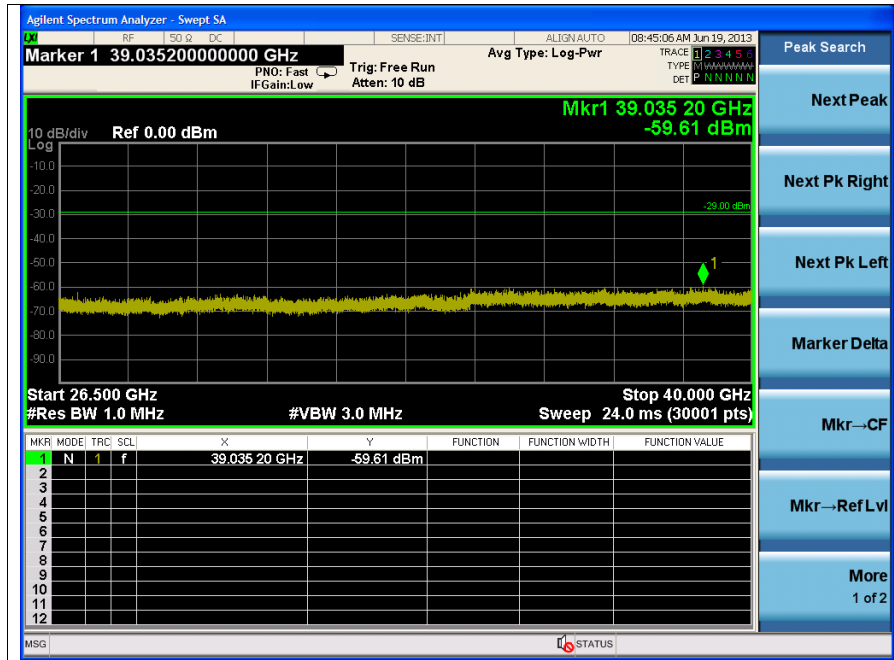


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 800.70	-	Noise Level	-
26 248.10	-	Noise Level	-
39 035.20	-	Noise Level	-

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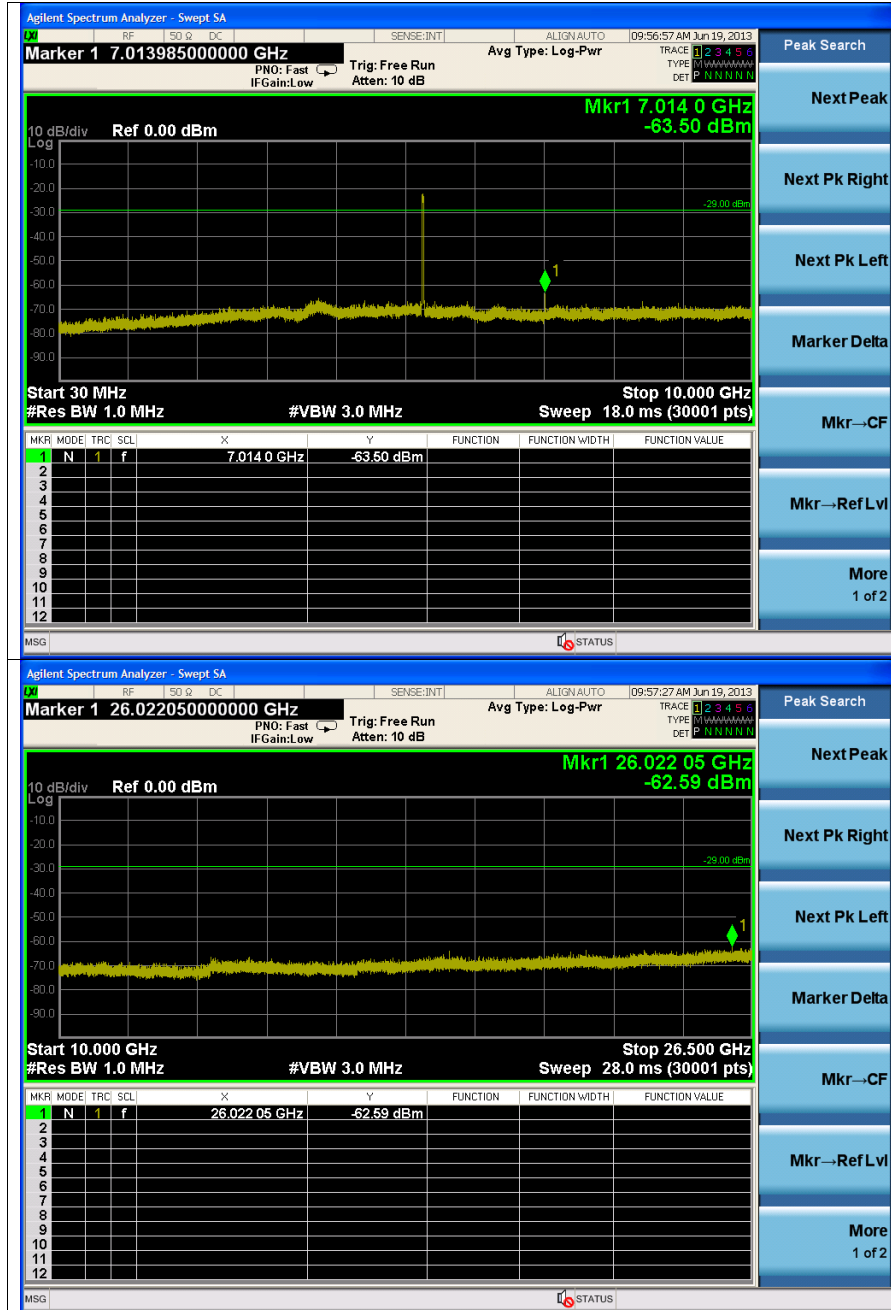
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802.11n_HT20 (DFS)_MCS0

5 260 MHz

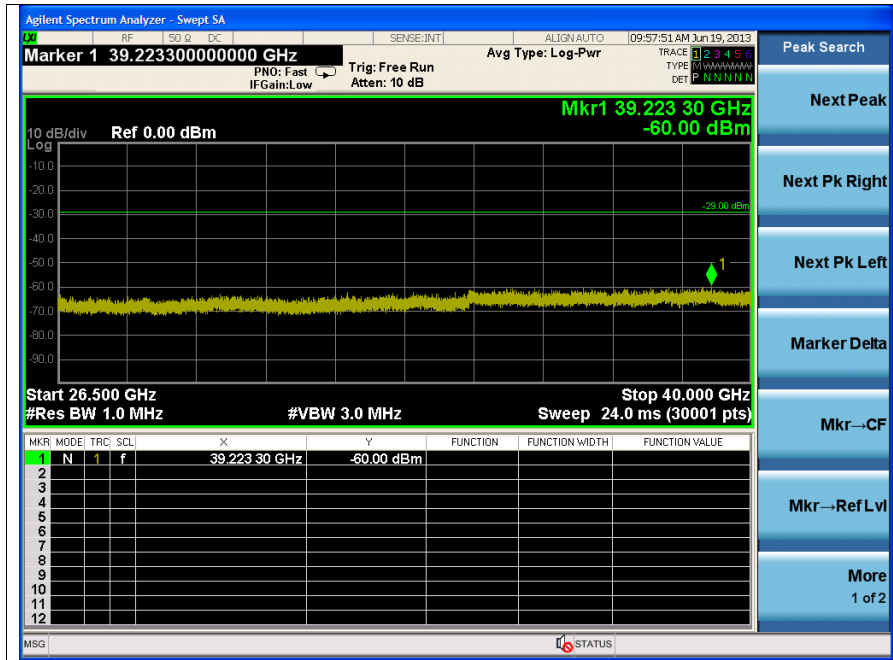


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 014.00	22.07	-63.50	-41.43
26 022.05	-	Noise Level	-
39 223.30	-	Noise Level	-

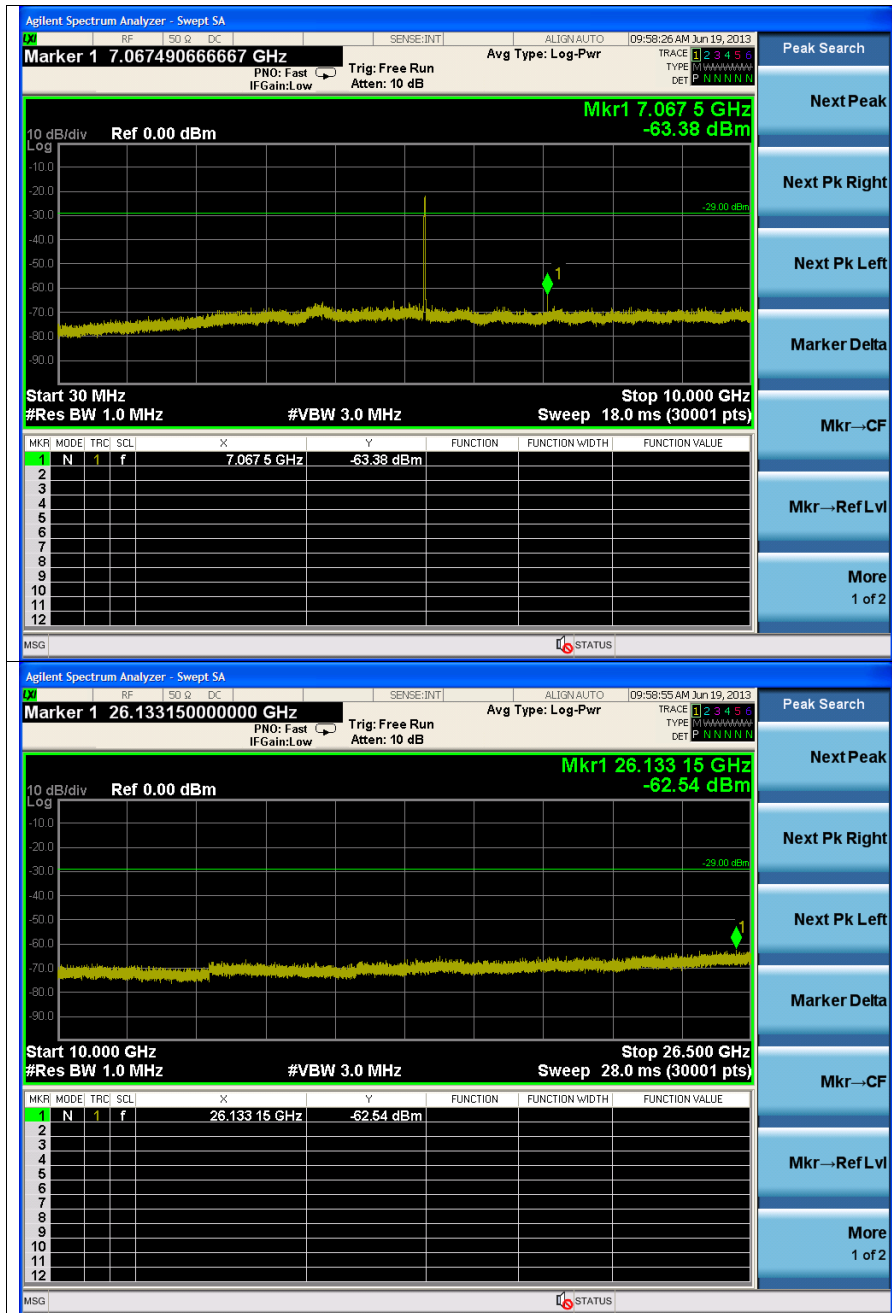
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5 300 MHz

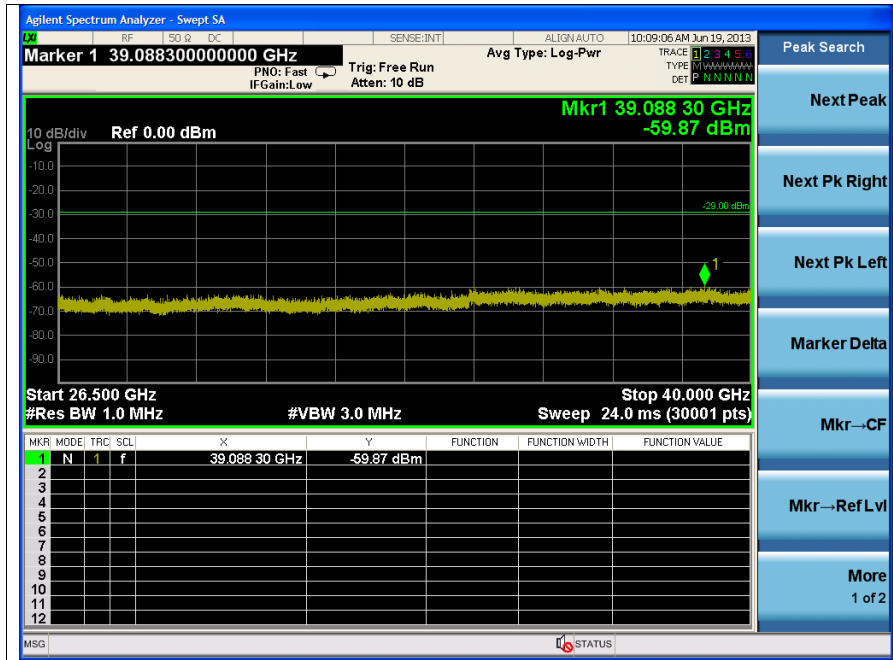


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 067.50	22.08	-63.38	-41.30
26 133.15	-	Noise Level	-
39 088.30	-	Noise Level	-

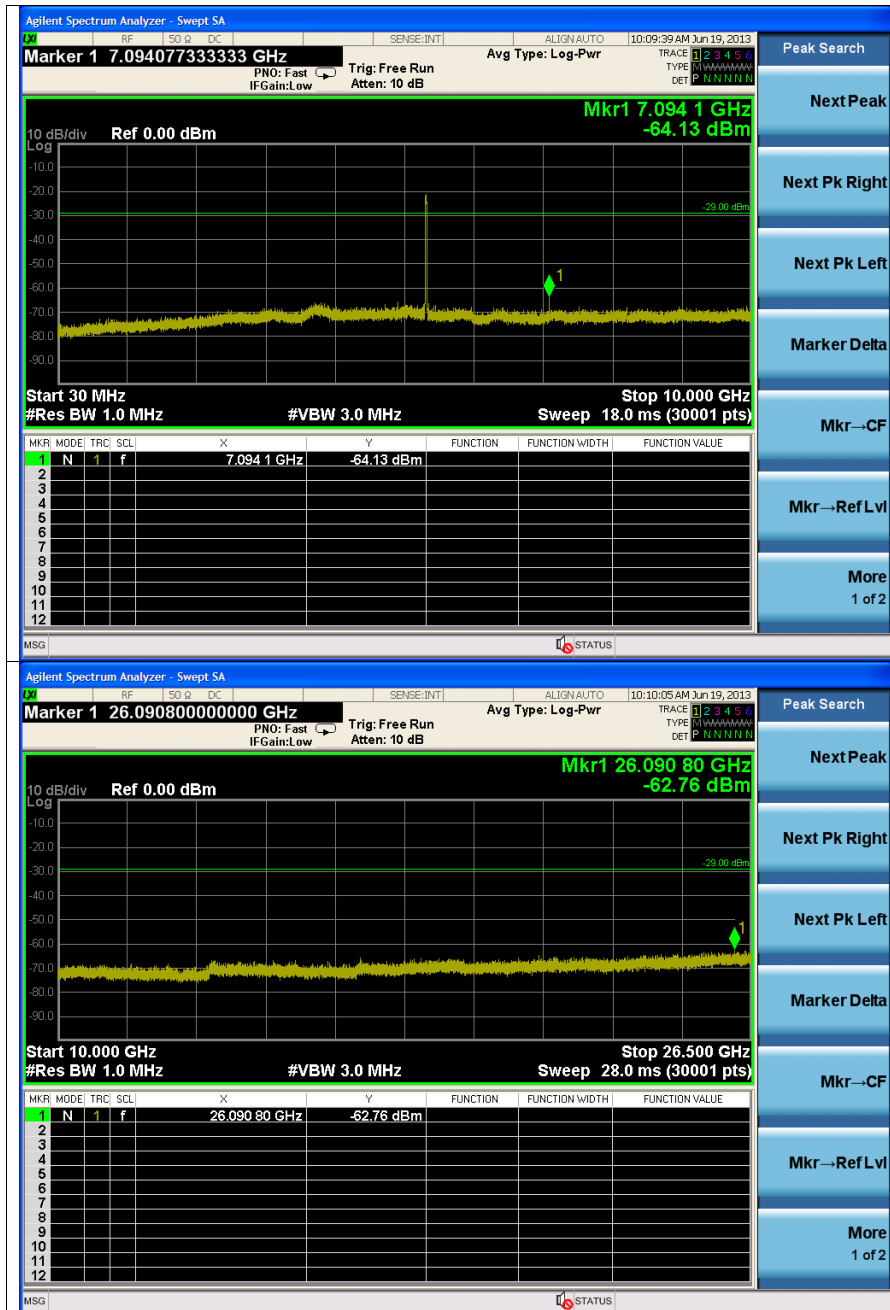
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5 320 MHz

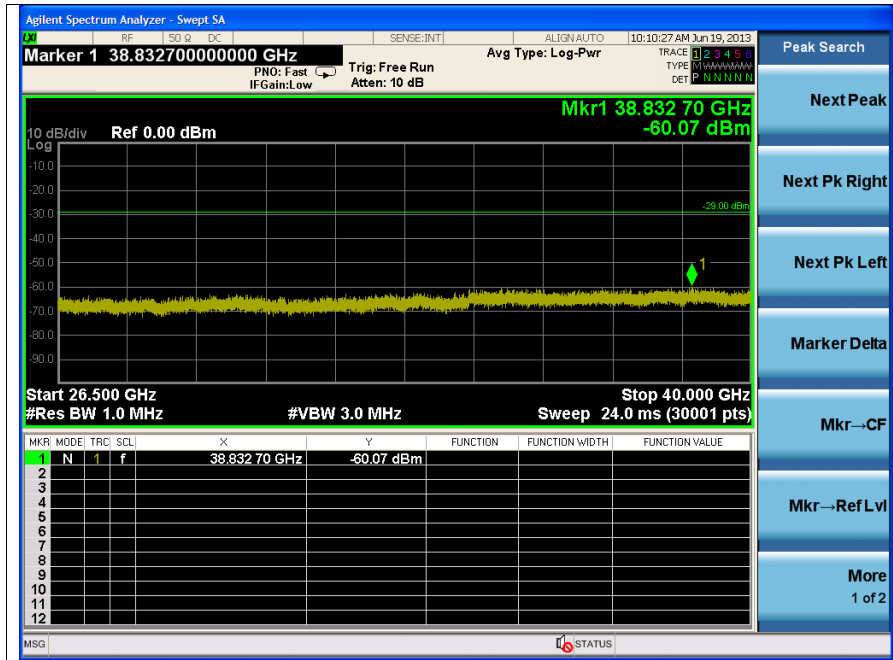


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 094.10	22.09	-64.13	-42.04
26 090.80	-	Noise Level	-
38 832.70	-	Noise Level	-

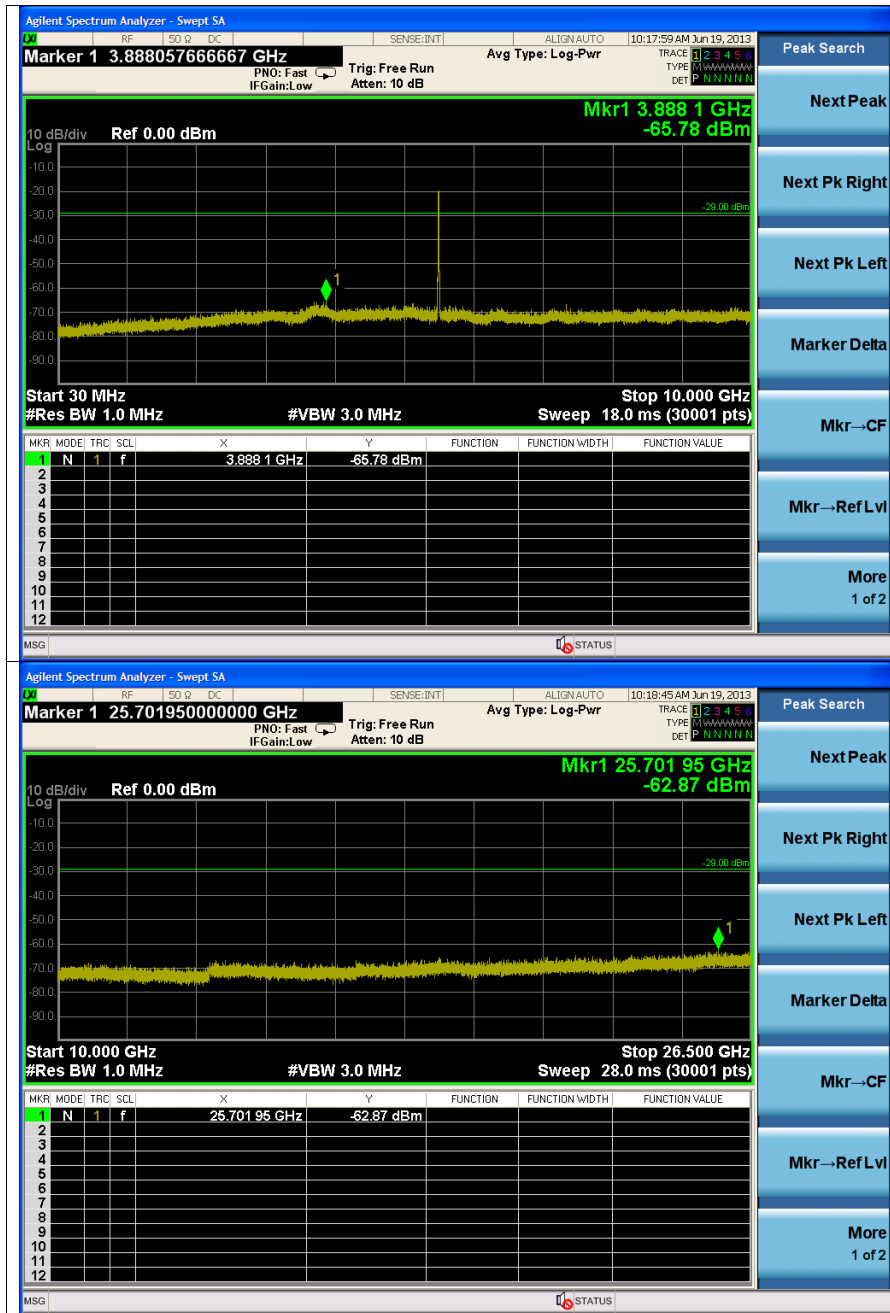
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5 500 MHz

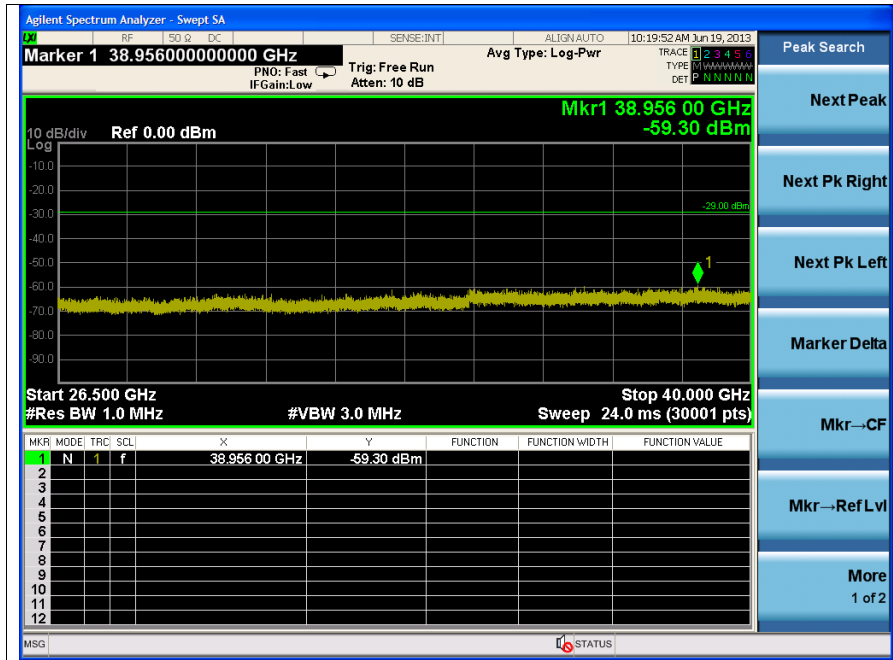


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 888.10	-	Noise Level	-
25 701.95	-	Noise Level	-
38 956.00	-	Noise Level	-

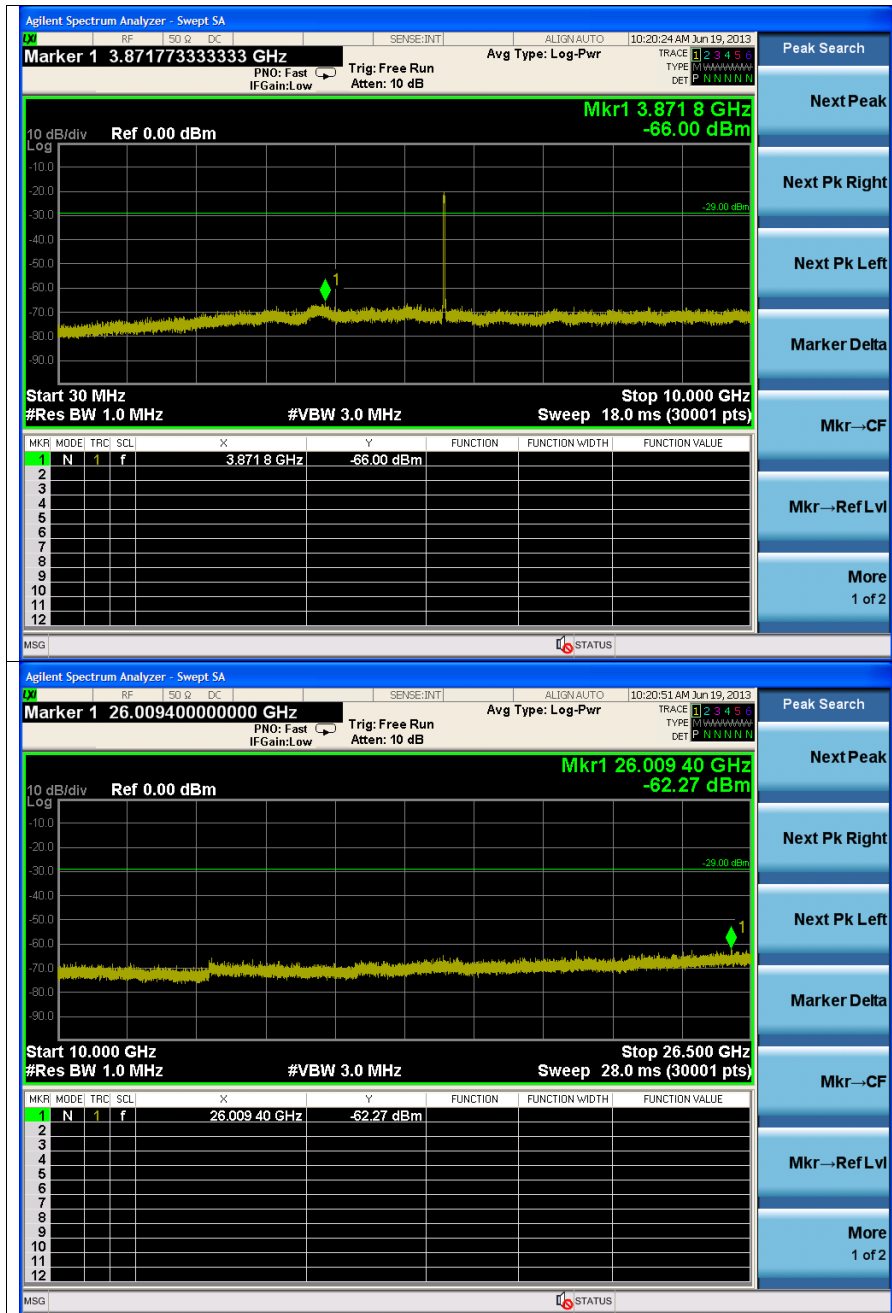
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5 580 MHz

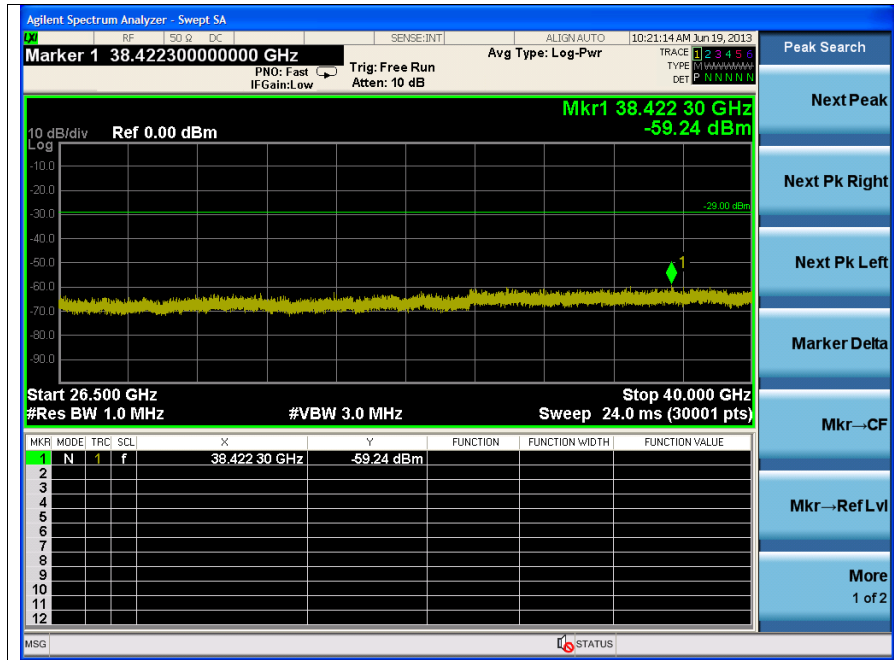


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 871.80	-	Noise Level	-
26 009.40	-	Noise Level	-
38 422.30	-	Noise Level	-

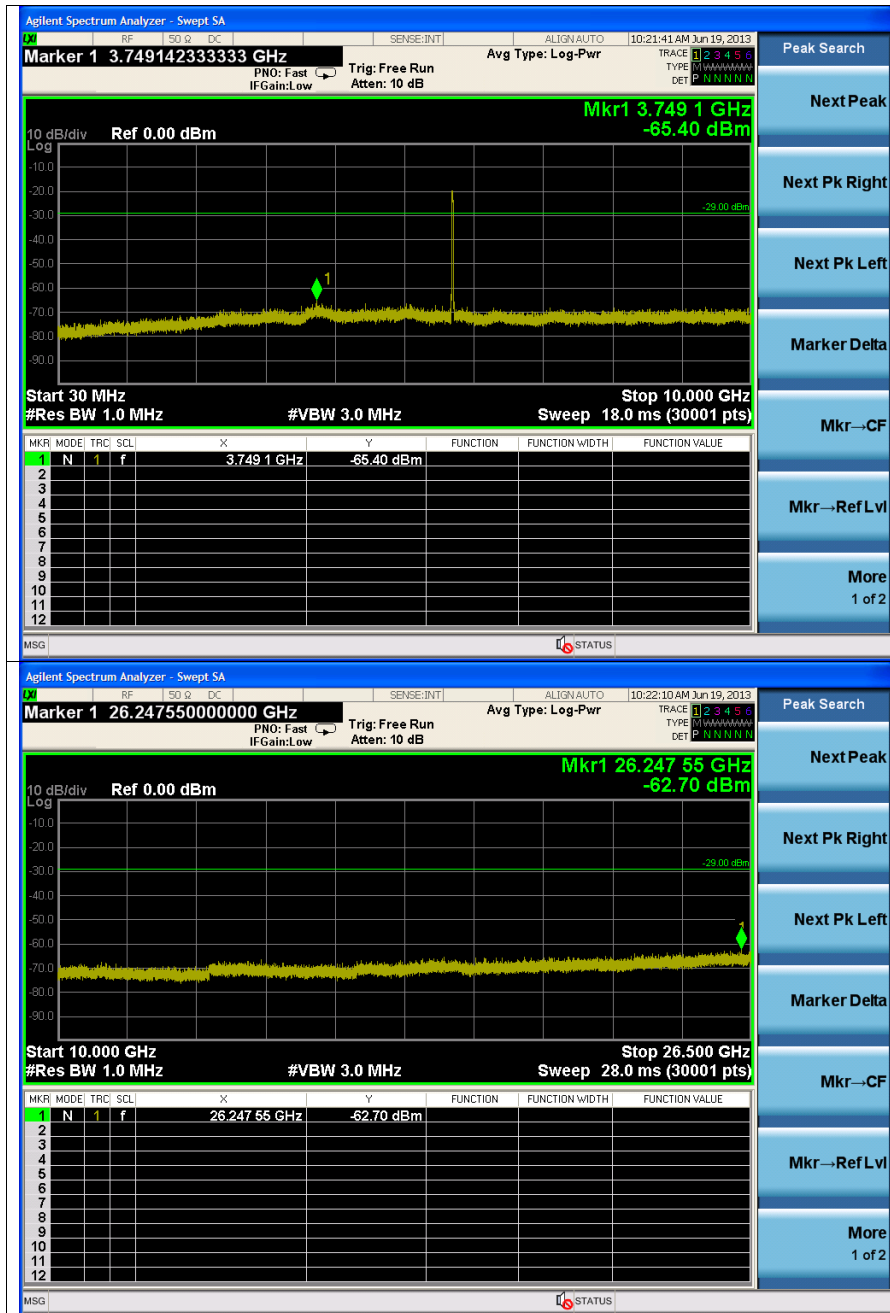
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5 700 MHz

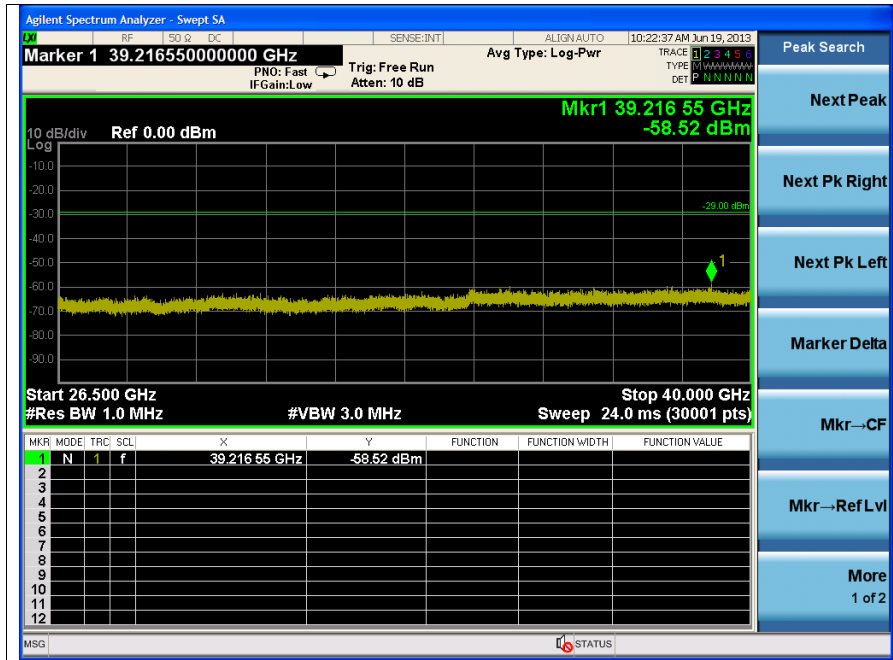


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 749.10	-	Noise Level	-
26 247.55	-	Noise Level	-
39 216.55	-	Noise Level	-

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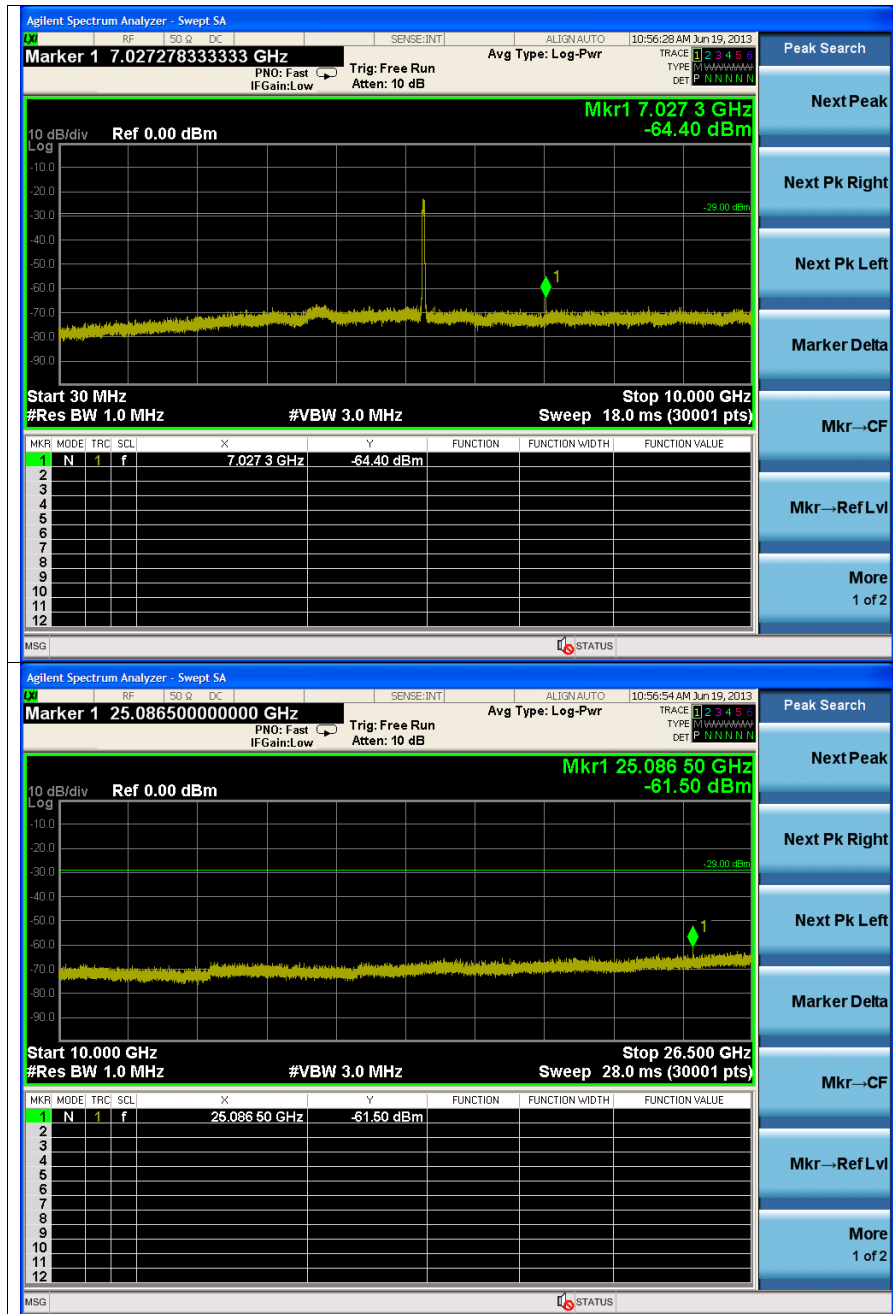
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802.11n_HT40 (DFS)_MCS0

5 270 MHz

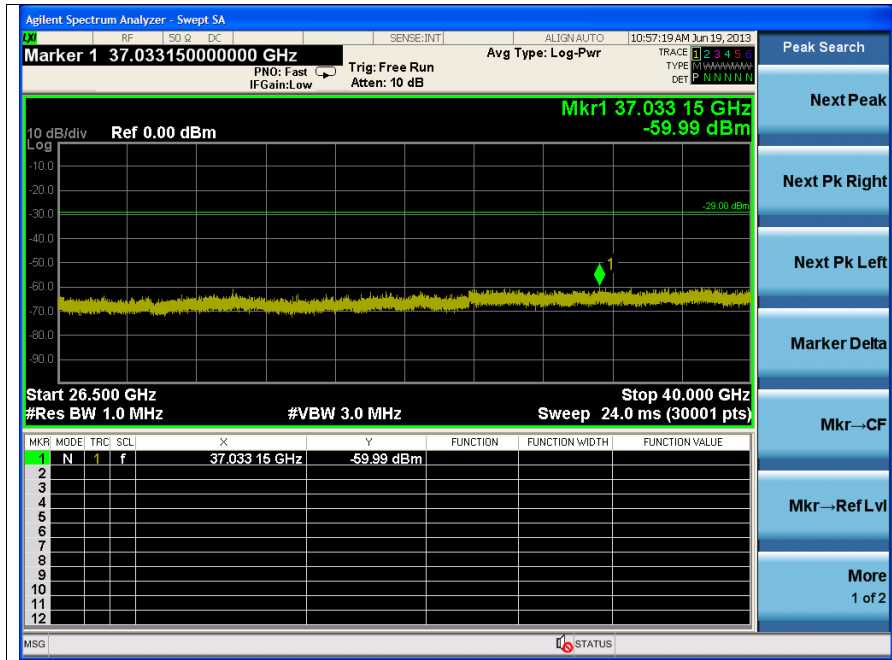


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 027.30	22.07	-64.40	-42.33
25 086.50	-	Noise Level	-
37 033.15	-	Noise Level	-

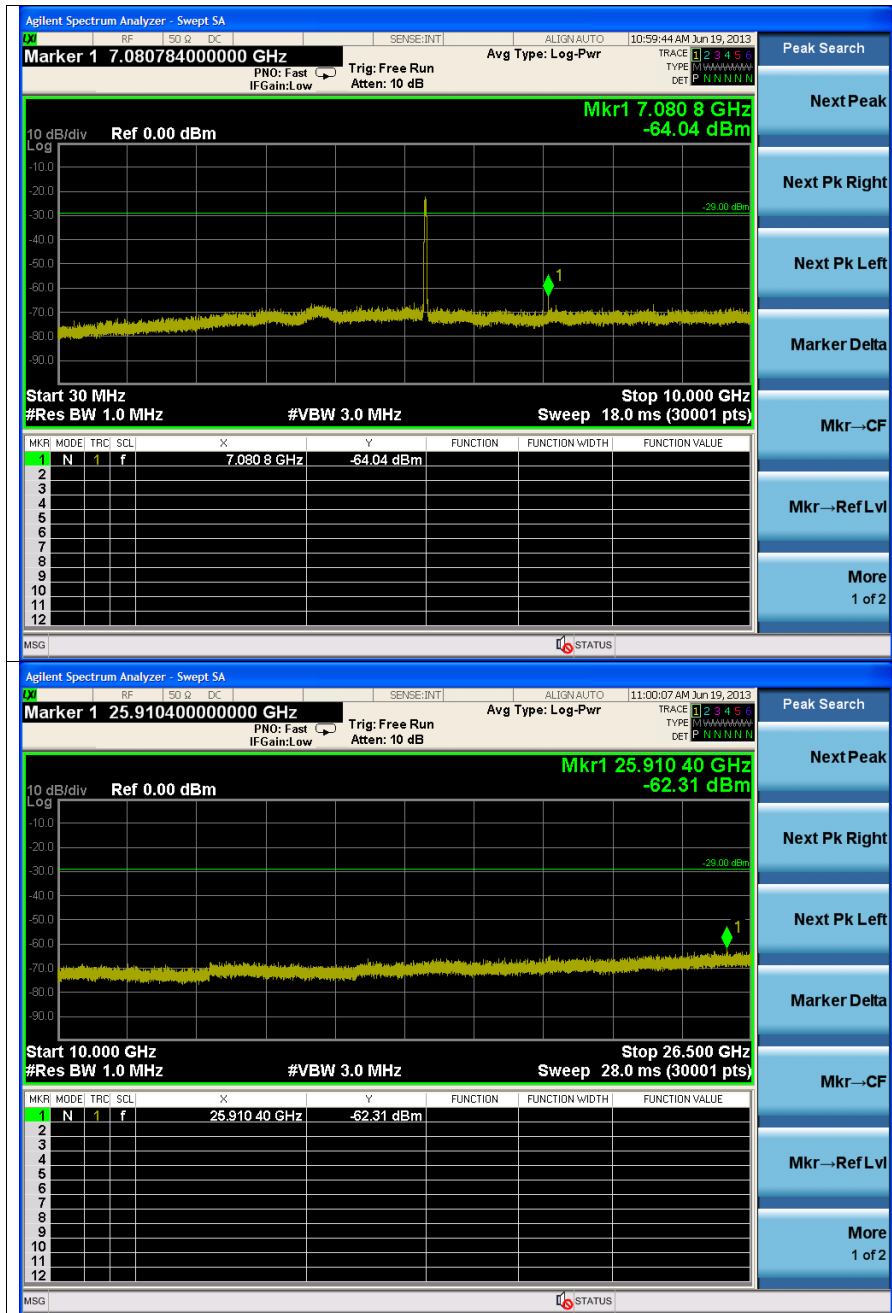
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5 310 MHz

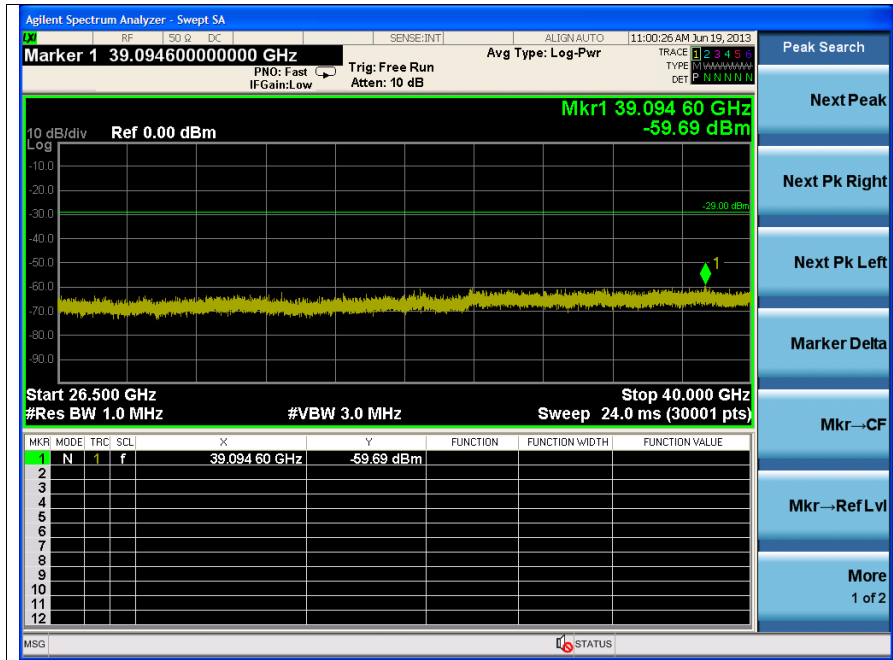


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
7 080.80	22.09	-64.04	-41.95
25 910.40	-	Noise Level	-
39 094.60	-	Noise Level	-

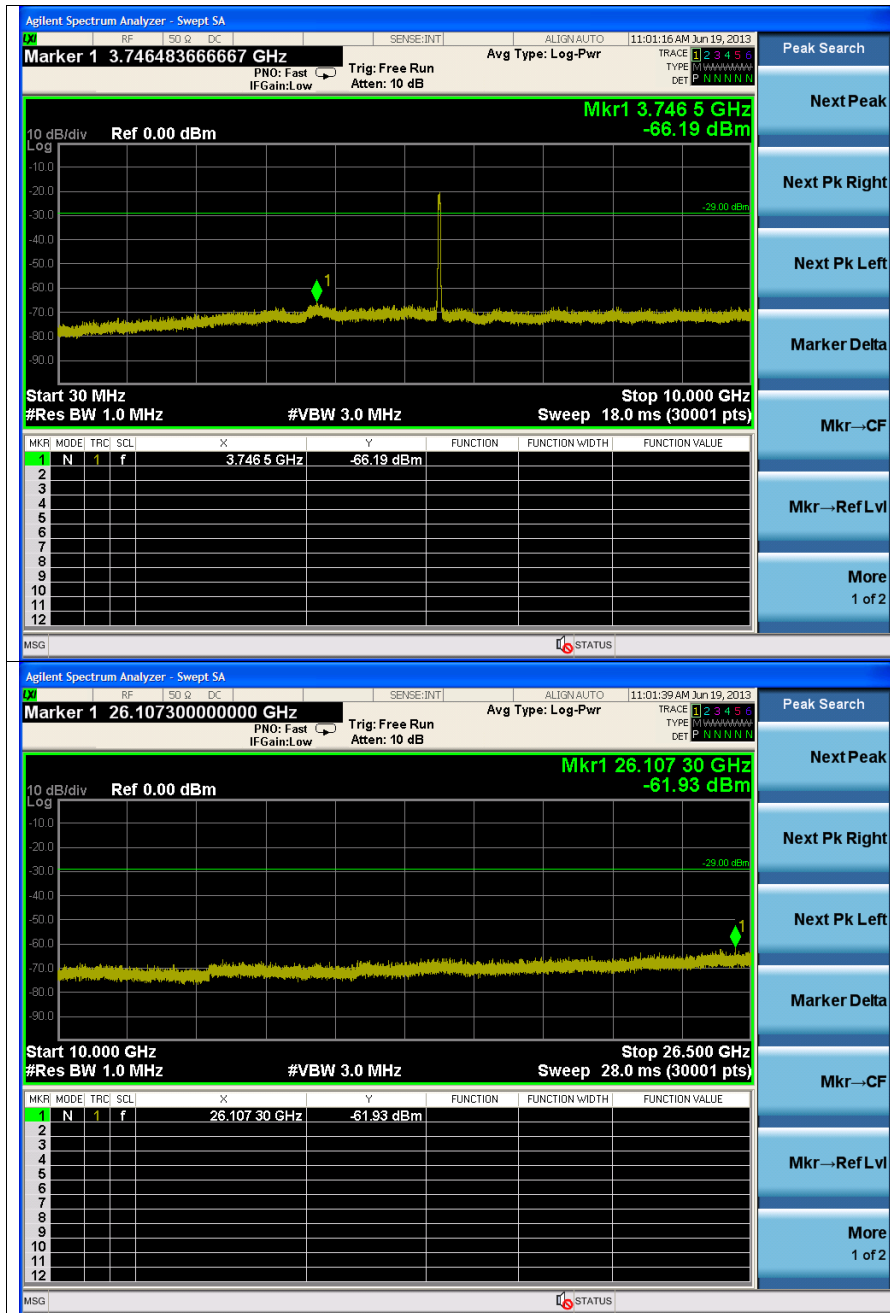
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5 510 MHz

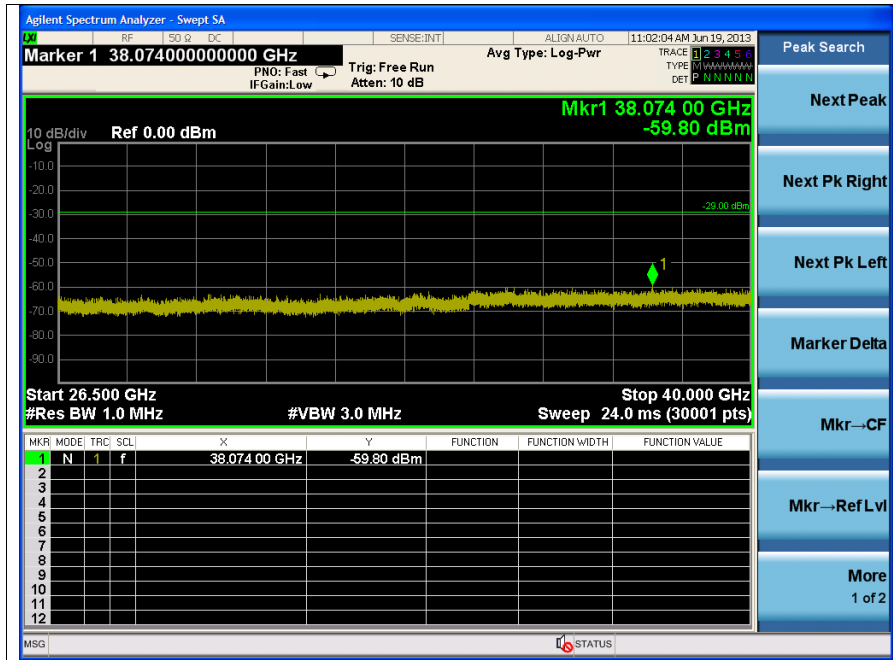


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 746.50	-	Noise Level	-
26 107.30	-	Noise Level	-
38 074.00	-	Noise Level	-

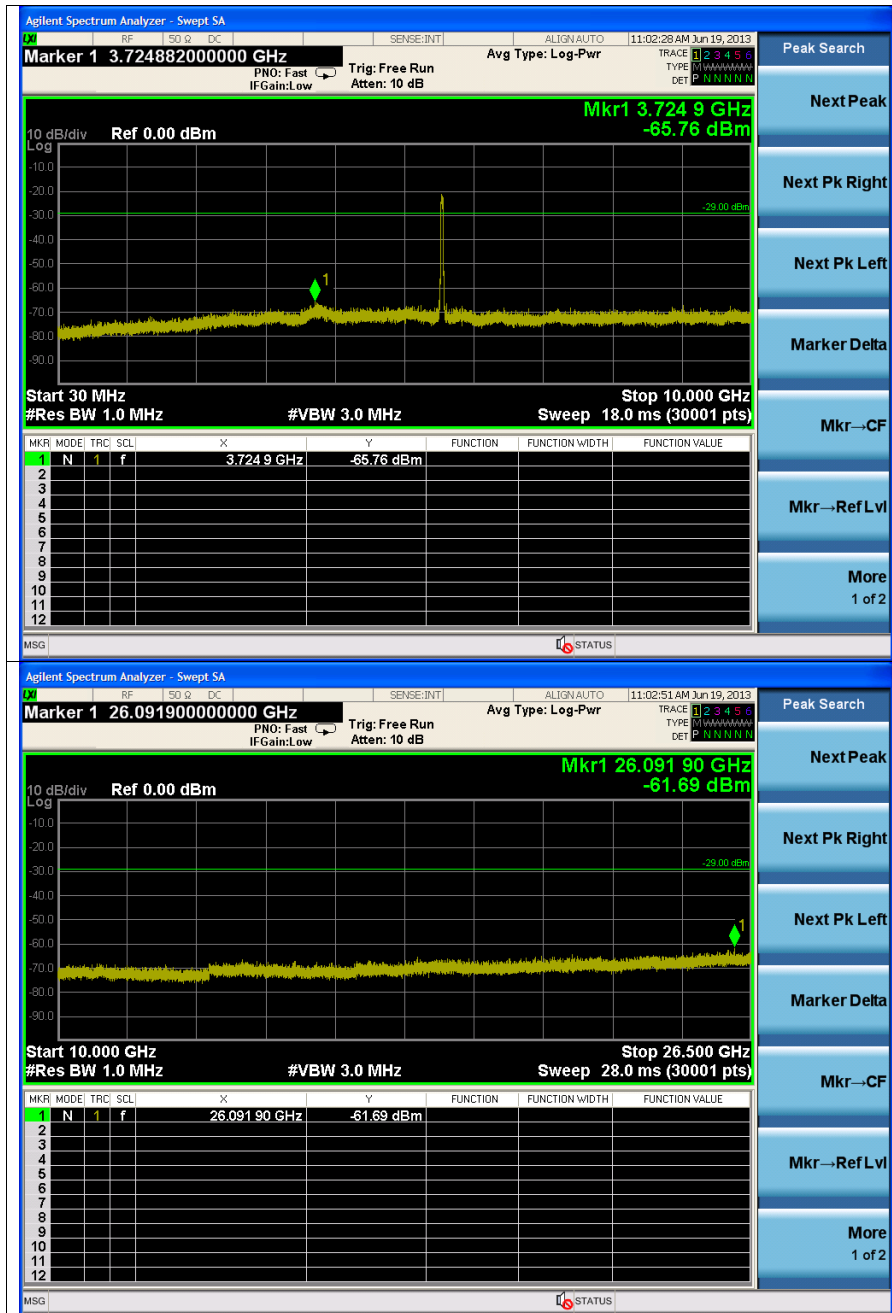
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5 550 MHz

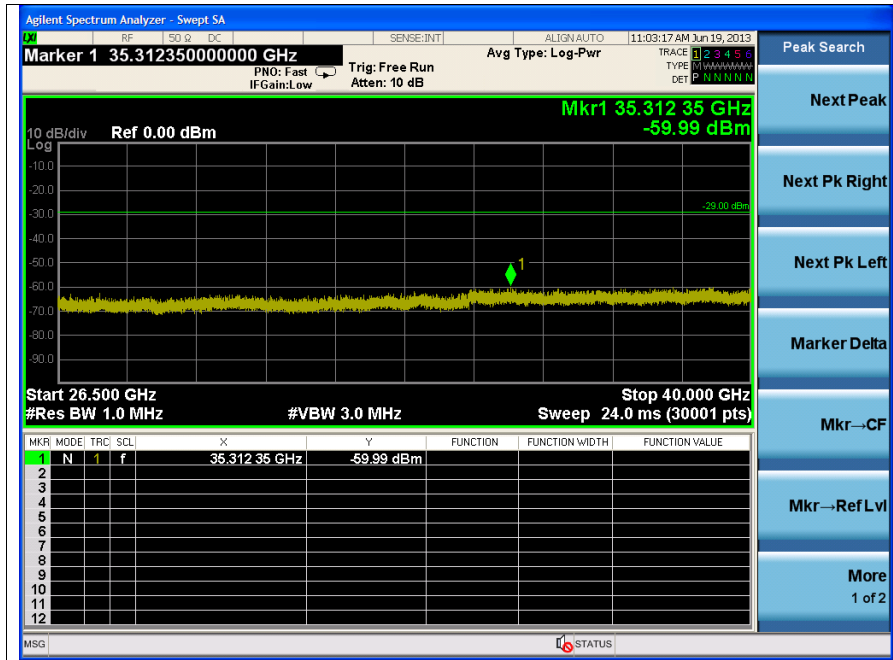


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 724.90	-	Noise Level	-
26 091.90	-	Noise Level	-
35 312.35	-	Noise Level	-

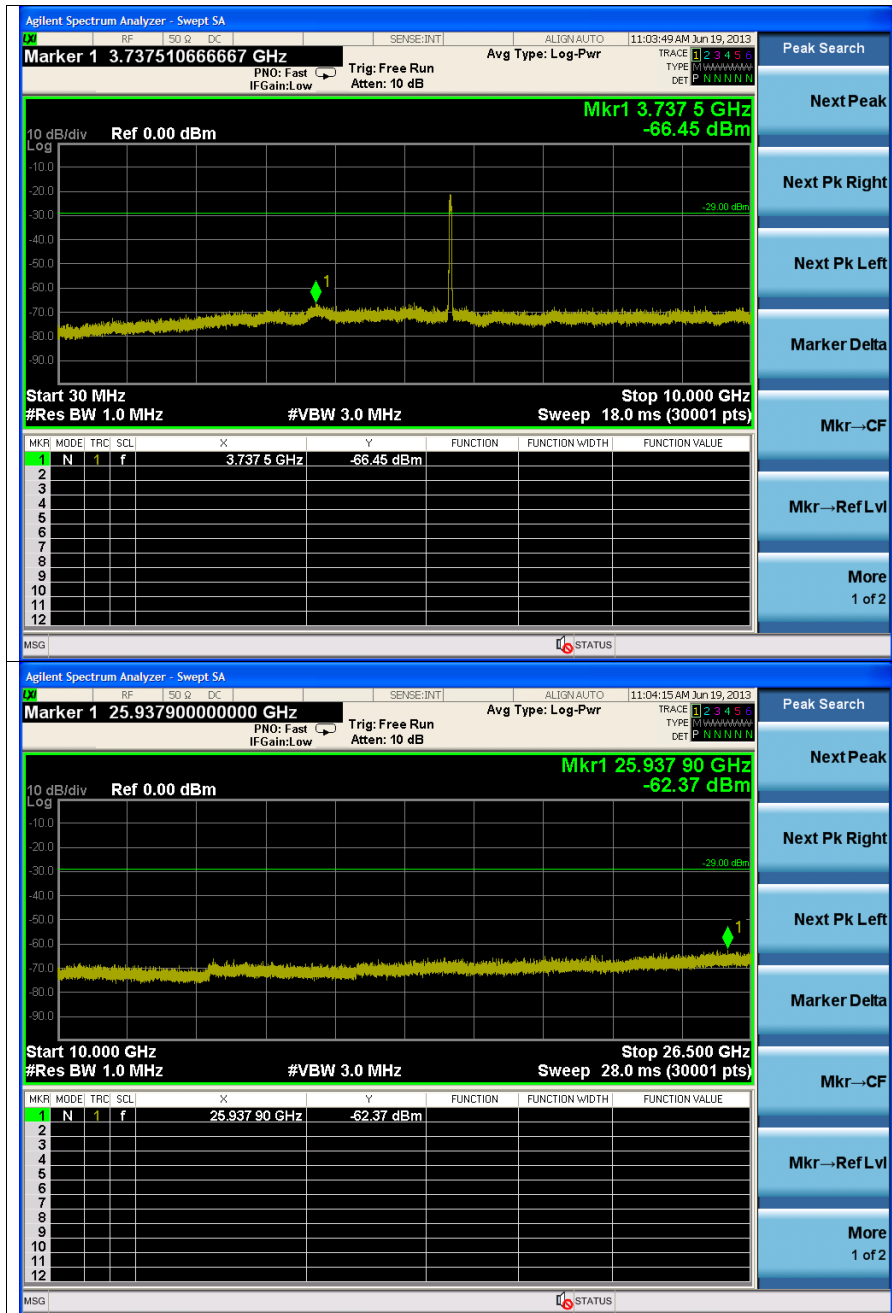
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5 670 MHz

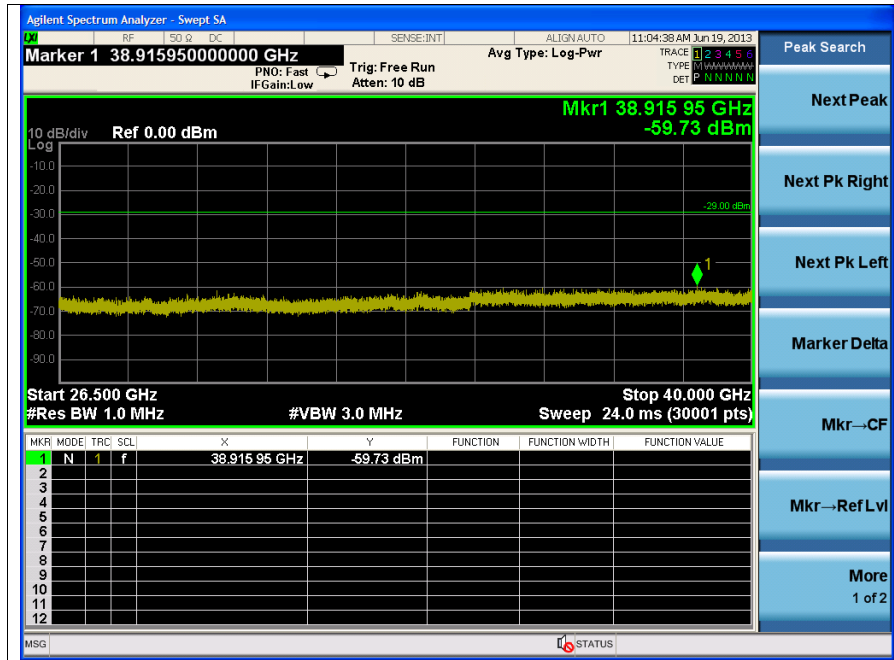


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Note:

Offset (dB) = Attenuator (dB) + Cable loss (dB)

Result (dB m) = Spurious offset (dB) + Reading values (dB m)

Frequency (MHz)	offset (dB)	Reading values (dB m)	Result (dB m)
3 737.50	-	Noise Level	-
25 937.90	-	Noise Level	-
38 915.95	-	Noise Level	-

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3. 26 dB bandwidth and 99 % occupied bandwidth

3.1. Test setup



3.2. Limit

None; for reporting purpose only

3.3. Test procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

3.3.1. 26 dB Bandwidth

1. This measurement settings are specified in section D of KDB 789033.
2. Set RBW: approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak
5. Trace mode = max hold.
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1 %

Note: The automatic bandwidth measurement capability of a spectrum analyzer may be employed if it implements the functionality described above.

3.3.2. 99% bandwidth

1. Set the spectrum analyzer as SPAN = 2 or 3 times necessary bandwidth, RBW = approximately 1 % of the SPAN, VBW is set to 3 times RBW, Detector = peak, Trace mode = max hold.
2. Measure lowest and highest frequencies are placed in a running sum until 0.5 % and 99.5 % of the total is reached.
3. Record the SPAN between the lowest and the highest frequencies for the 99 % occupied bandwidth.
4. Repeat until all the test channels are investigated.

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3.4. Test result

Ambient temperature : (24 ± 2) °C
 Relative humidity : 49 % R.H.

ANT0

802.11a

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 180	21.99	16.47
	5 220	21.15	16.48
	5 240	20.48	16.49
DFS	5 260	21.55	16.52
	5 300	20.26	16.46
	5 320	20.22	16.50
DFS	5 500	20.40	16.46
	5 580	20.69	16.47
	5 700	20.16	16.45

802.11n_HT20

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 180	21.35	17.65
	5 220	21.25	17.63
	5 240	21.27	17.63
DFS	5 260	22.30	17.64
	5 300	21.92	17.63
	5 320	21.09	17.63
DFS	5 500	20.94	17.64
	5 580	21.07	17.63
	5 700	20.87	17.62

802.11n_HT40

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 190	43.01	35.69
	5 230	43.20	35.78
DFS	5 270	42.95	35.74
	5 310	41.33	35.75
	5 510	42.22	35.70
	5 550	41.00	35.64
	5 670	41.25	35.73

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ANT1
802.11a

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 180	20.97	16.49
	5 220	21.11	16.53
	5 240	20.95	16.51
DFS	5 260	20.66	16.47
	5 300	21.35	16.51
	5 320	21.41	16.49
DFS	5 500	21.00	16.49
	5 580	19.92	16.45
	5 700	20.48	16.44

802.11n_HT20

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 180	21.80	17.64
	5 220	21.54	17.66
	5 240	22.77	17.68
DFS	5 260	21.80	17.66
	5 300	22.21	17.65
	5 320	21.84	17.64
DFS	5 500	21.71	17.62
	5 580	21.29	17.60
	5 700	21.04	17.62

802.11n_HT40

Operating mode	Frequency(MHz)	26 dB bandwidth(MHz)	99% bandwidth(MHz)
Non - DFS	5 190	41.57	35.75
	5 230	42.88	35.71
DFS	5 270	43.02	35.72
	5 310	41.76	35.64
	5 510	42.21	35.68
	5 550	41.88	35.67
	5 670	41.18	35.73

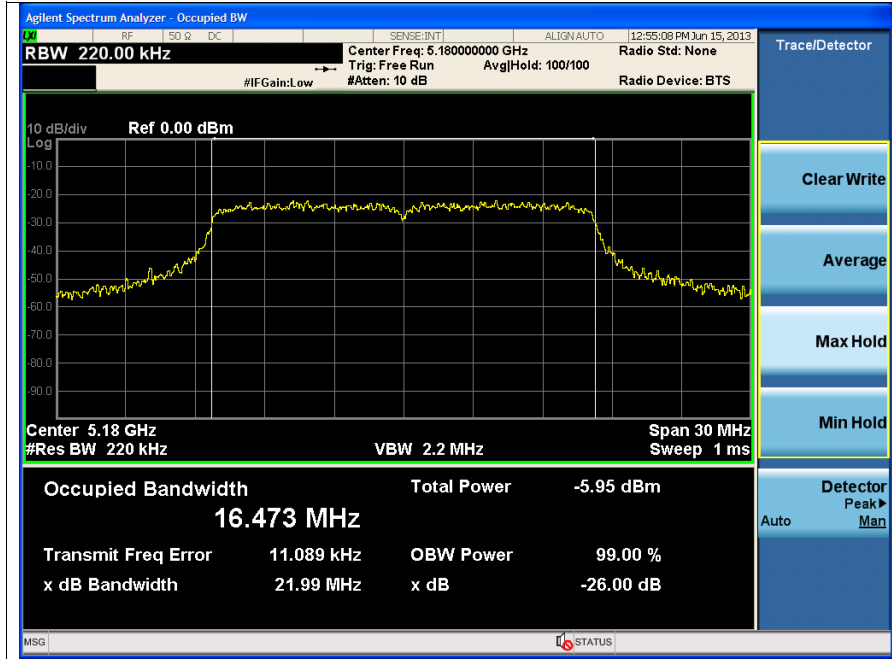
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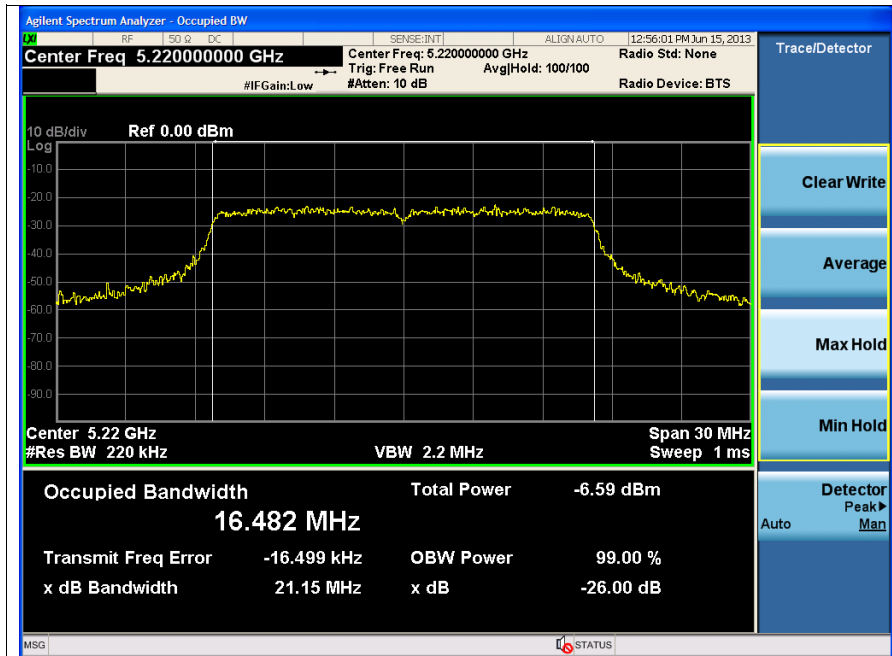
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ANTO
802.11a (Non-DFS)
 Low Channel (5 180 MHz)

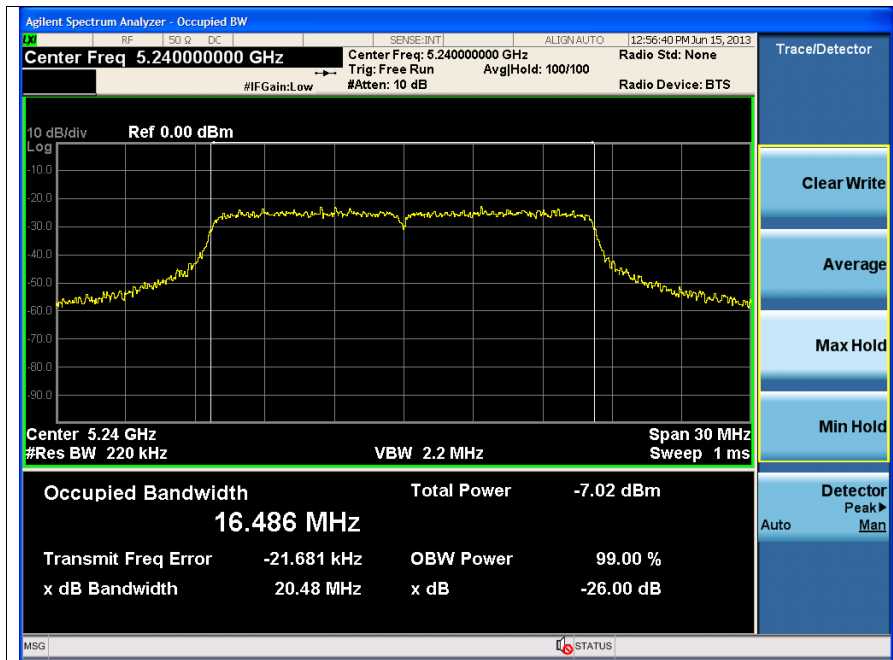


Middle Channel (5 220 MHz)



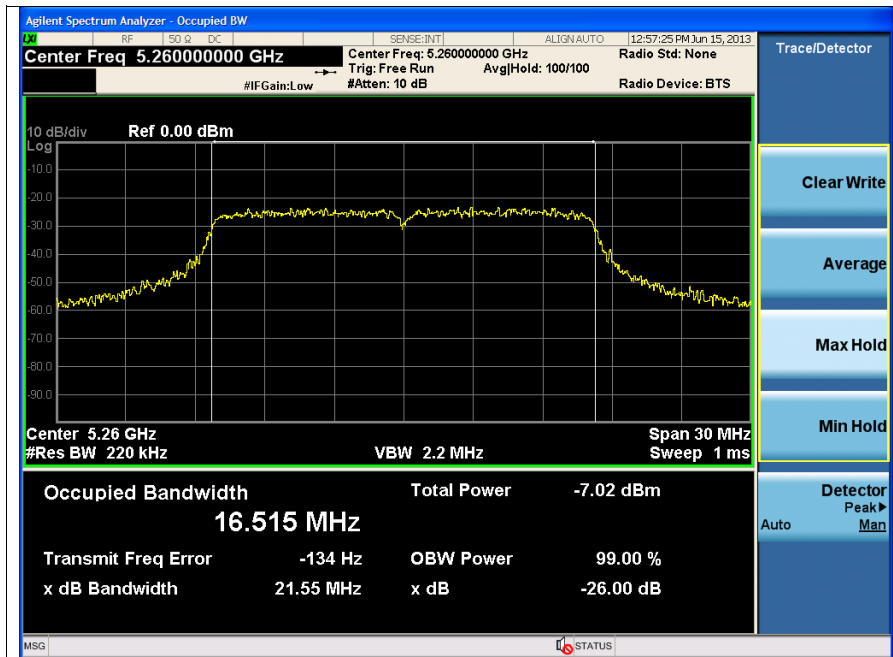
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High Channel (5 240 MHz)



802.11a (DFS)

Low Channel (5 260 MHz)



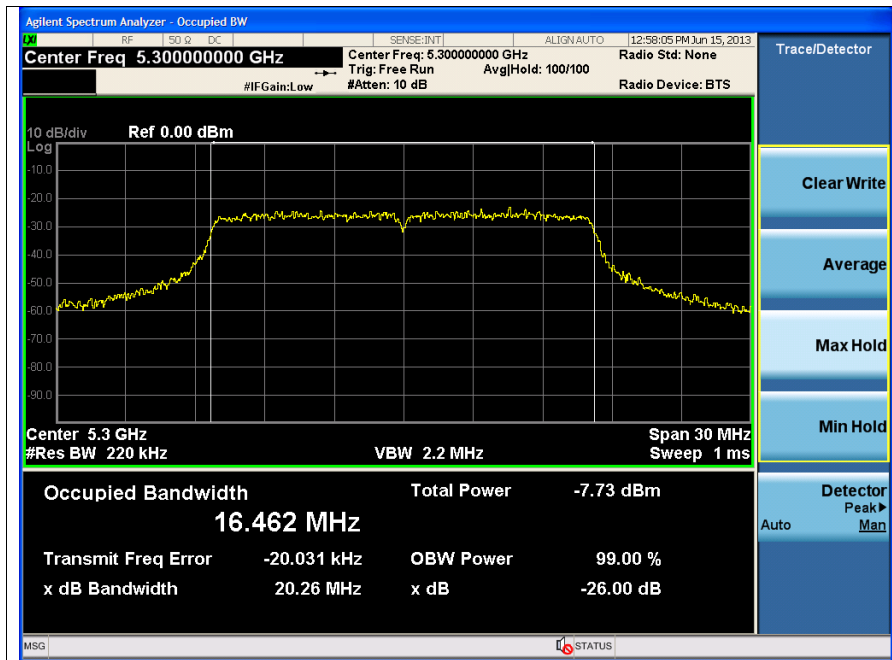
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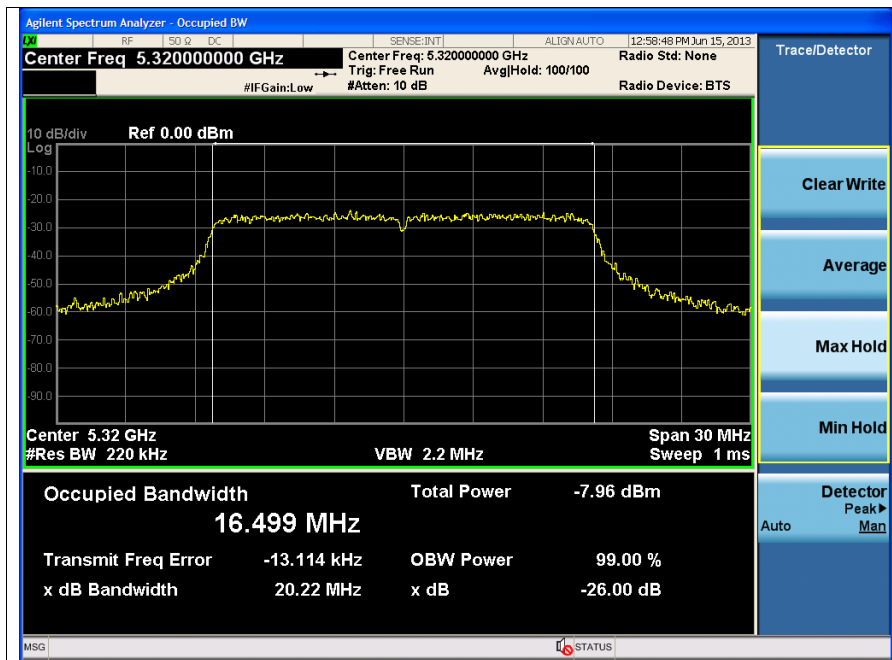
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Middle Channel (5 300 MHz)



High Channel (5 320 MHz)



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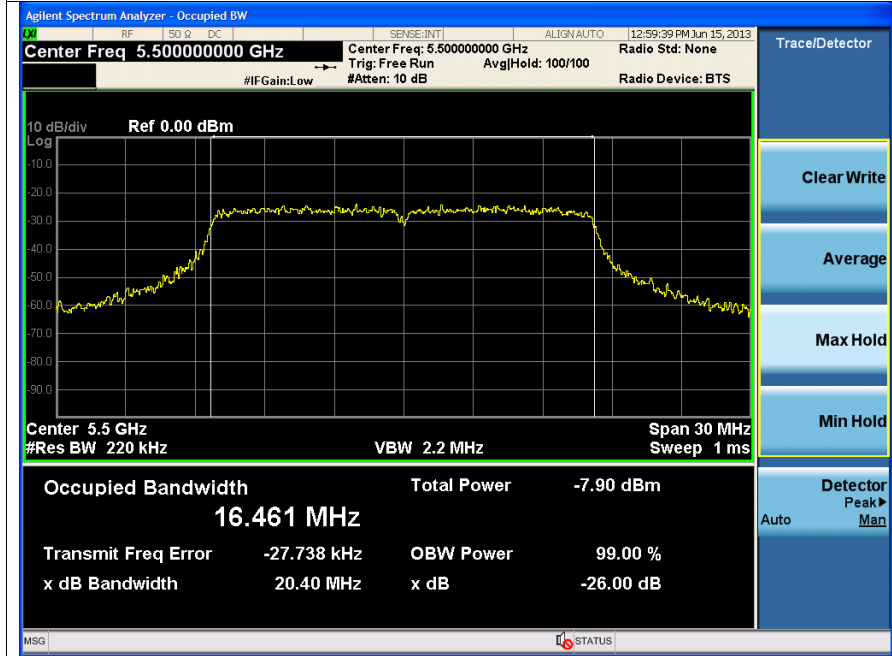
SGS Korea Co., Ltd. (Gunpo Laboratory) 18-34, Sanbon-dong, Gunpo-si, Gyeonggi-do, Korea, 435-040

Tel. +82 31 428 5700 / Fax. +82 31 427 2371

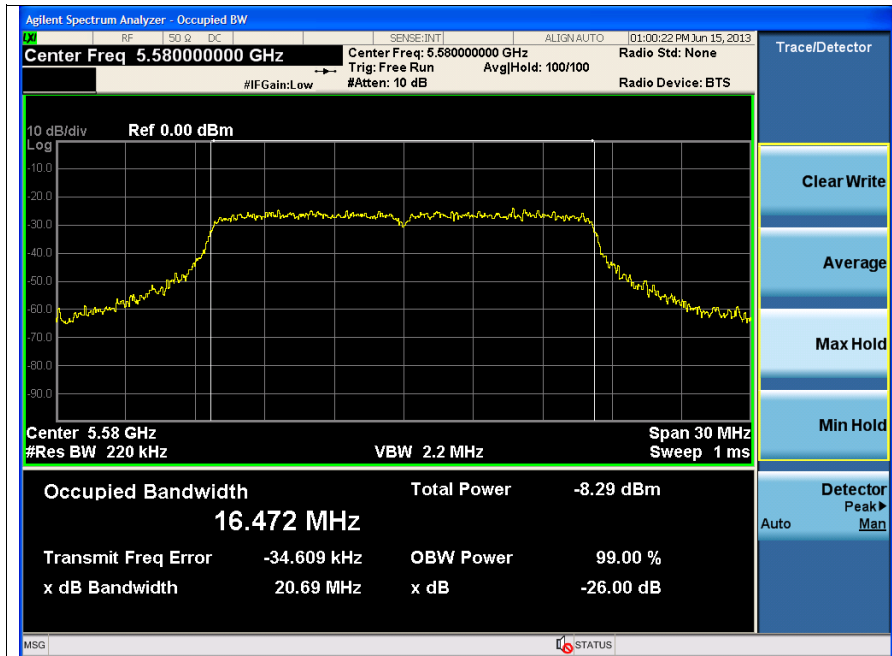
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802.11a (DFS)

Low Channel (5 500 MHz)



Middle Channel (5 580 MHz)



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