



Annex A: DTS (6 dB) Bandwidth



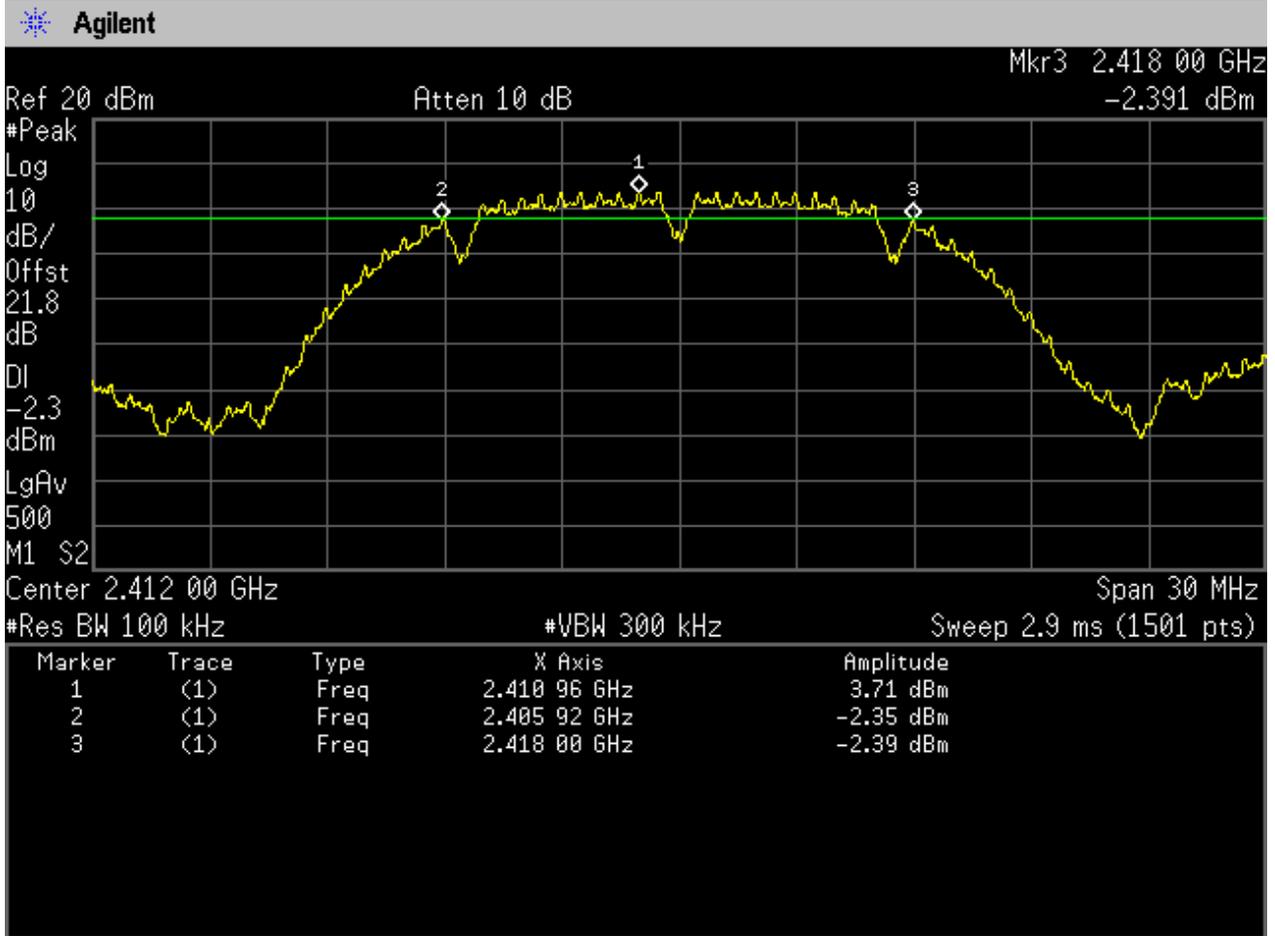
For measurements on devices with multiple transmit chains, the test is performed at each chain, and is used as respective result for each chain.

1 Result Table

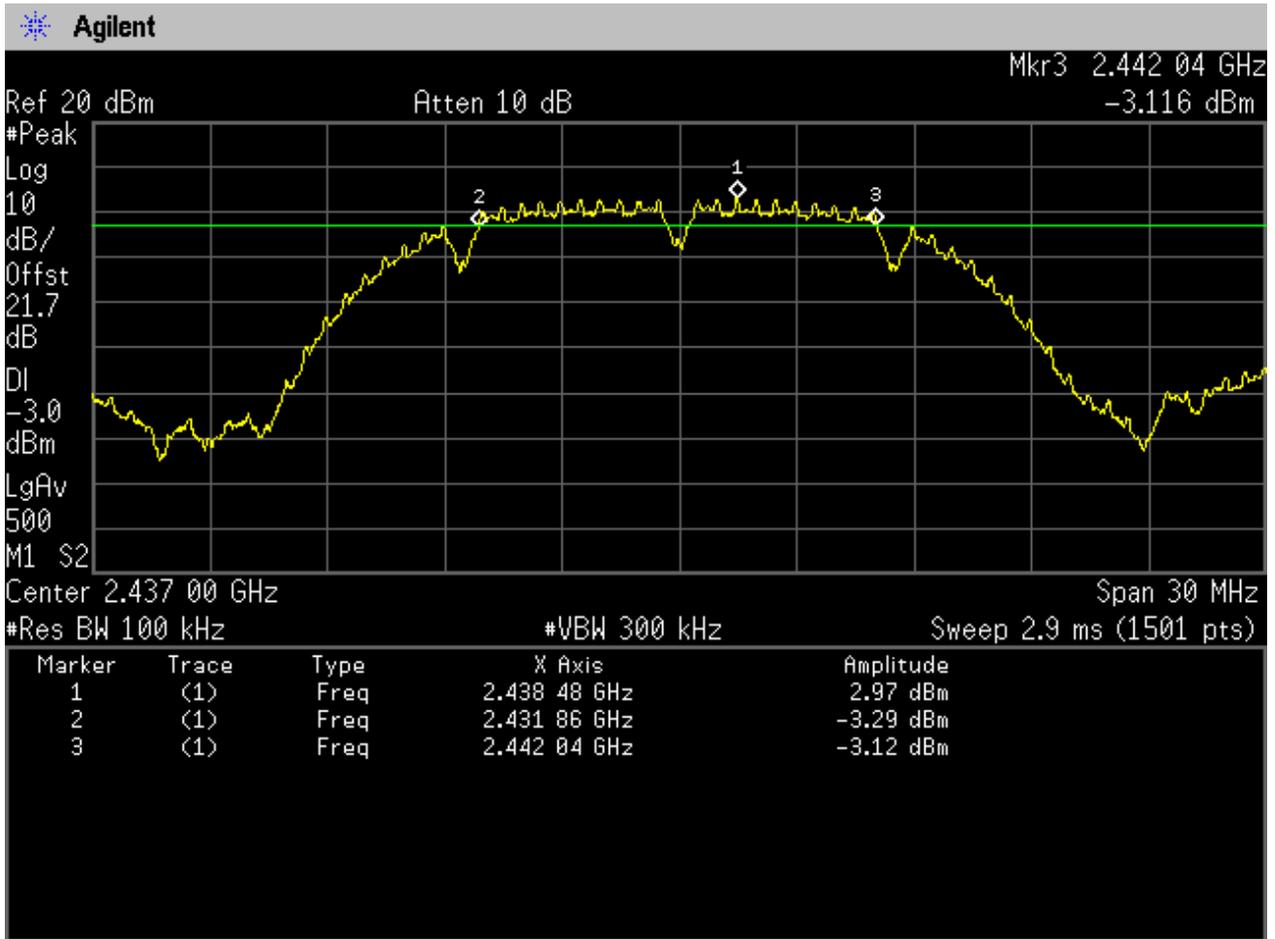
EUT Conf.	Ant.	DTS (6 dB) Bandwidth [MHz]	Verdict
11B1-B-Ant1	Ant 1	12.08	Pass
11B1-M-Ant1	Ant 1	10.18	Pass
11B1-T-Ant1	Ant 1	11.14	Pass
11G6-B-Ant1	Ant 1	15.7	Pass
11G6-M-Ant1	Ant 1	16.1	Pass
11G6-T-Ant1	Ant 1	15.7	Pass
11N0-20B-Ant1	Ant 1	15.5	Pass
11N0-20M-Ant1	Ant 1	15.5	Pass
11N0-20T-Ant1	Ant 1	15.92	Pass
11N0-40B-Ant1	Ant 1	35.12	Pass
11N0-40M-Ant1	Ant 1	35.12	Pass
11N0-40T-Ant1	Ant 1	35.12	Pass

2 Test Plot

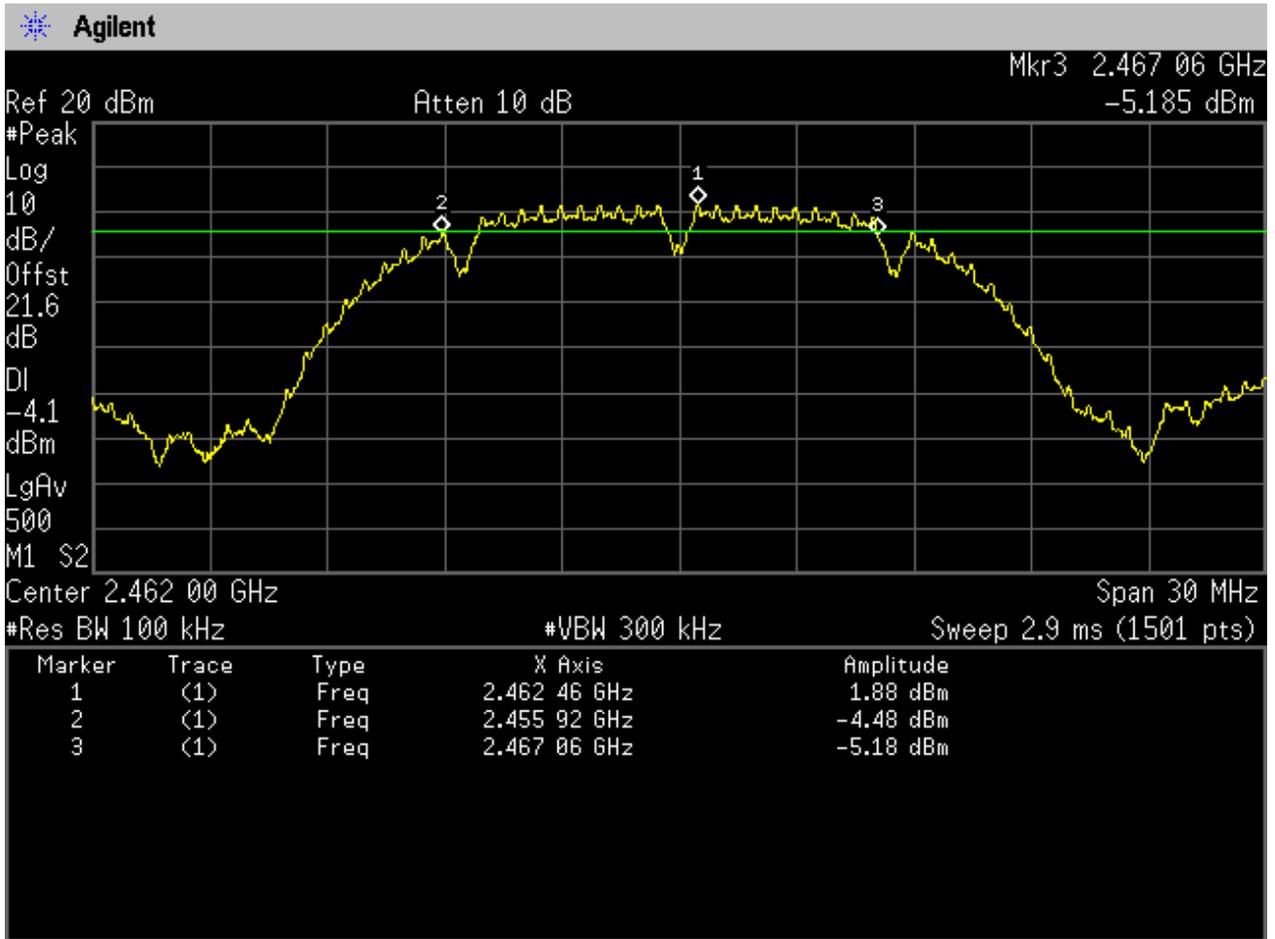
2.1 11B1-B-Ant1



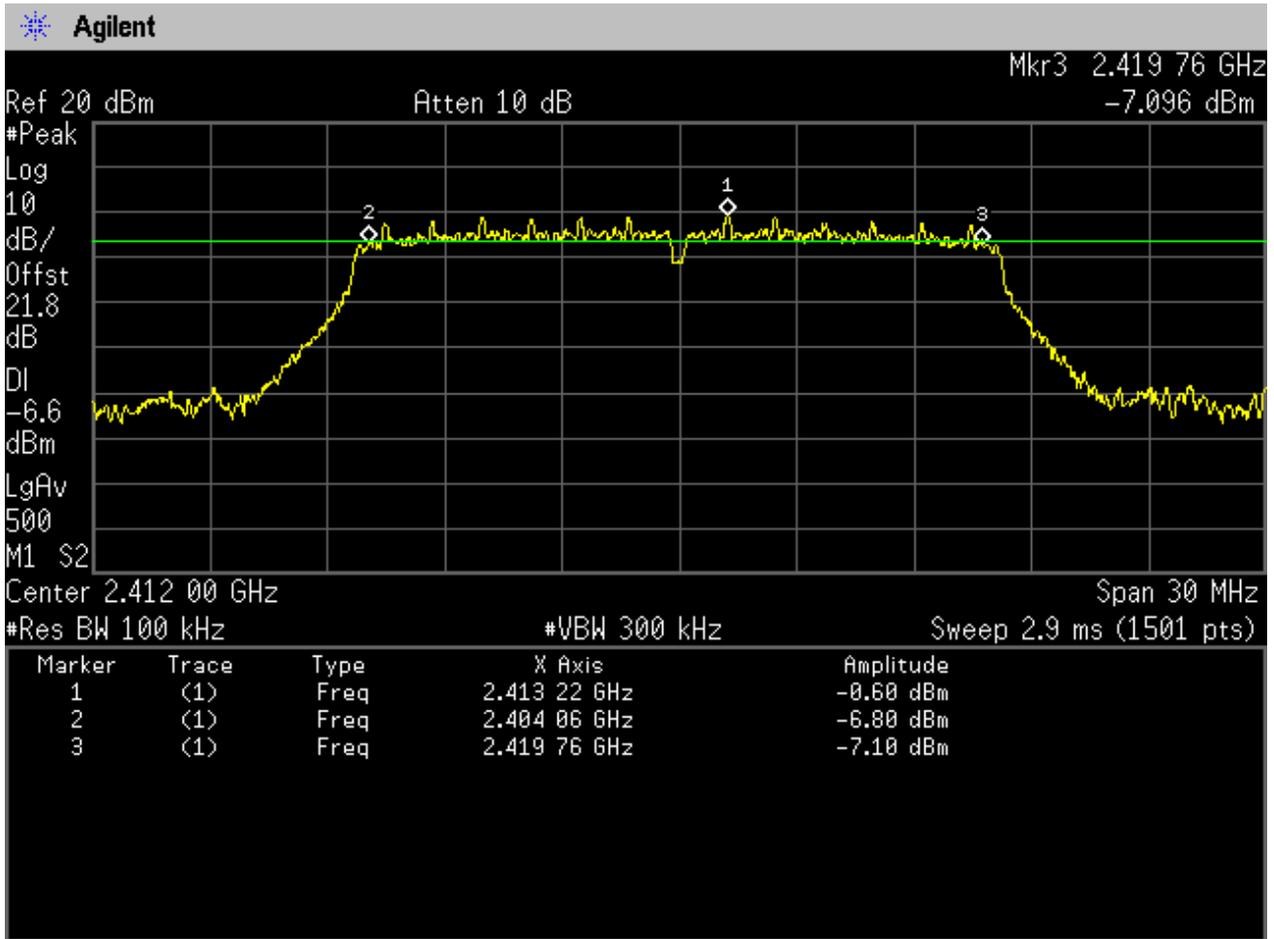
2.2 11B1-M-Ant1



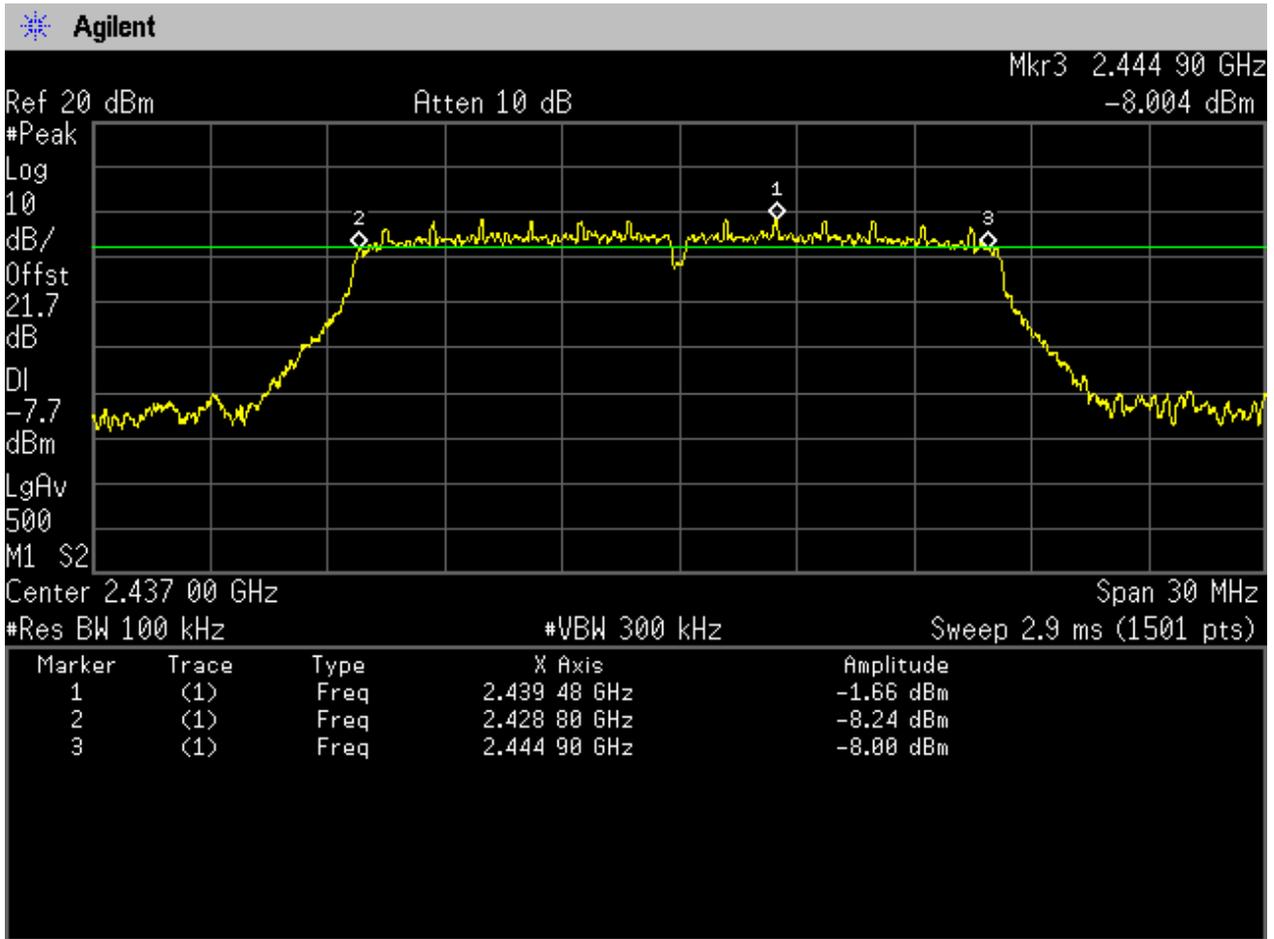
2.3 11B1-T-Ant1



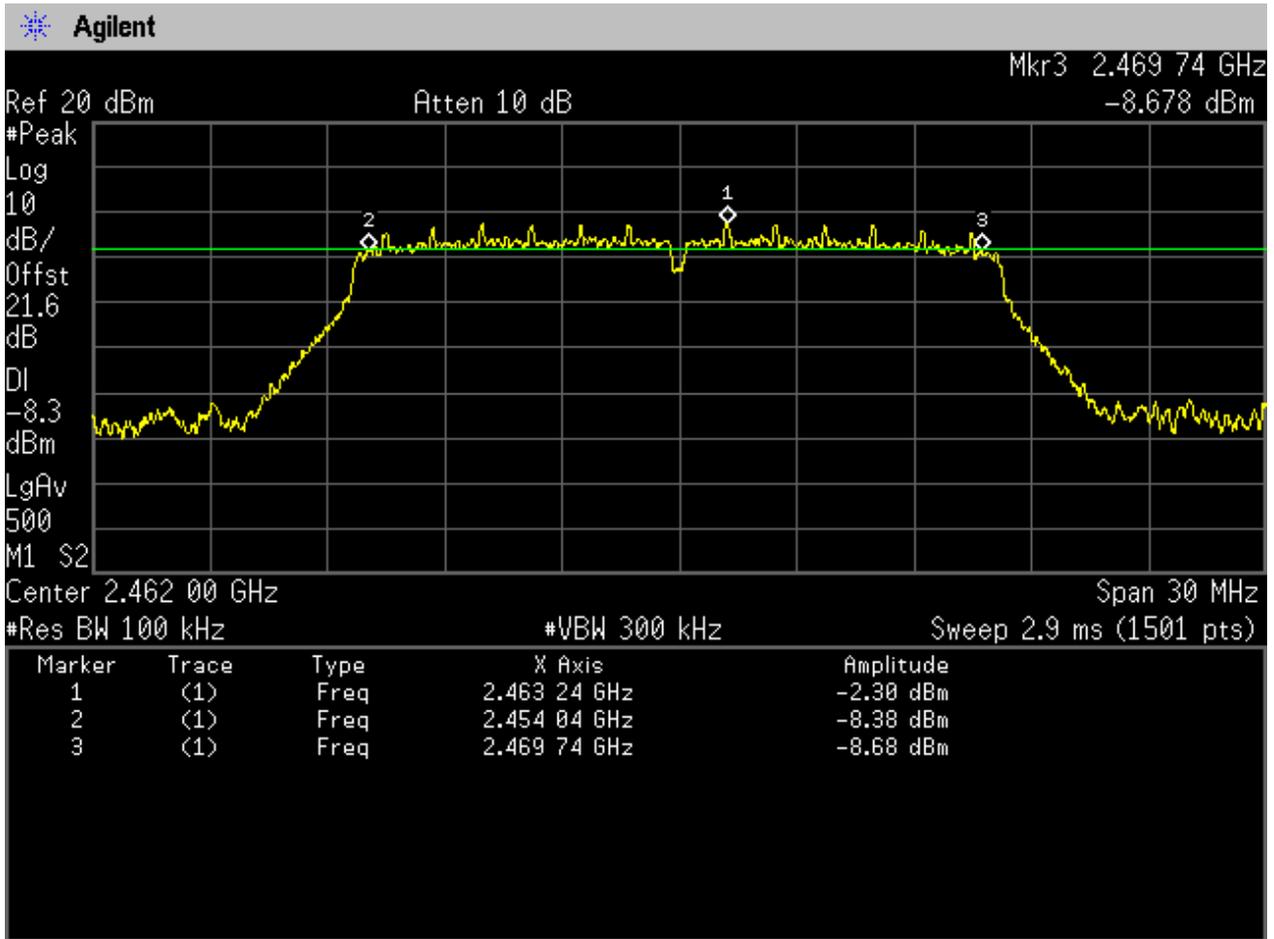
2.4 11G6-B-Ant1



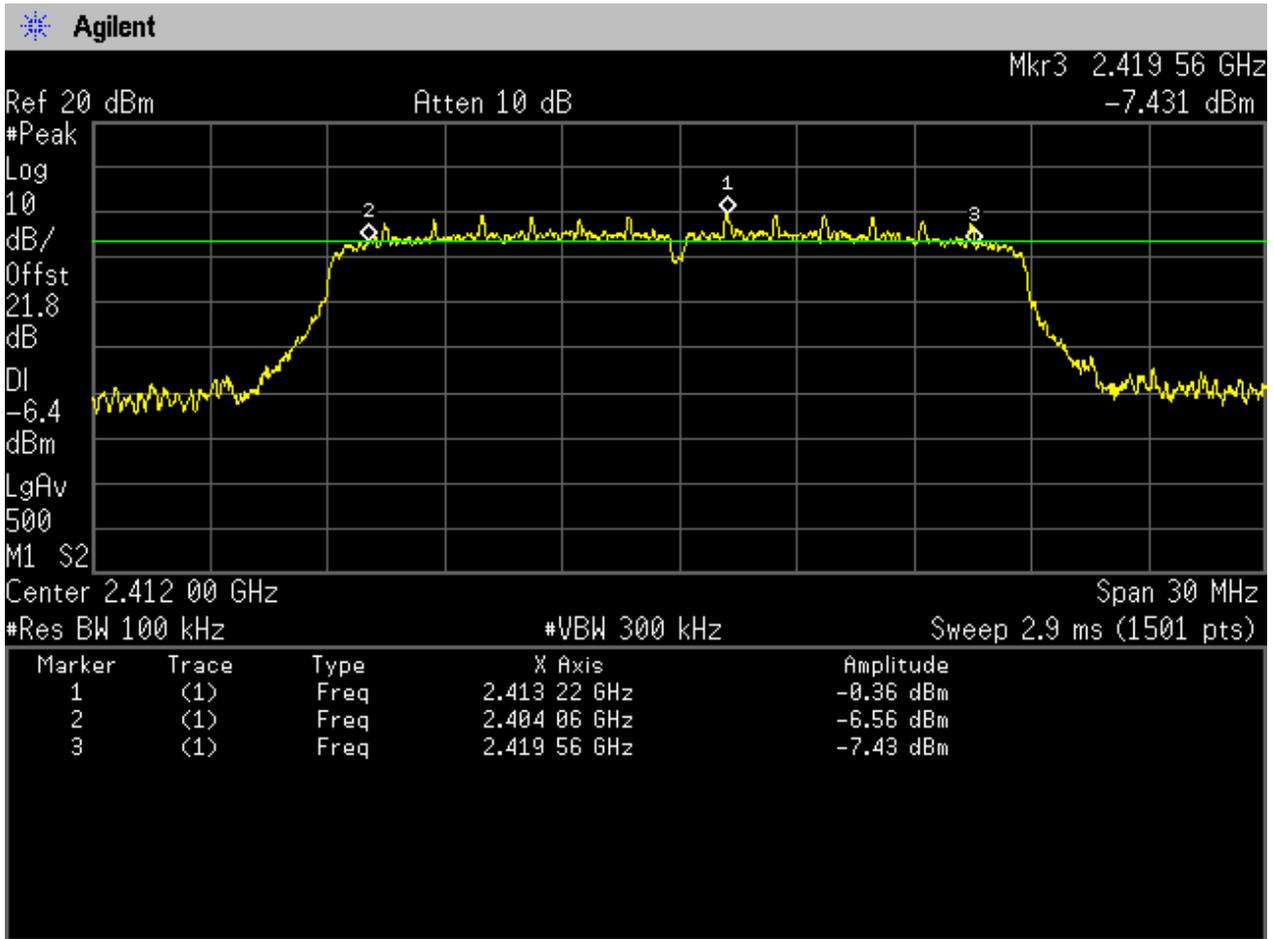
2.5 11G6-M-Ant1



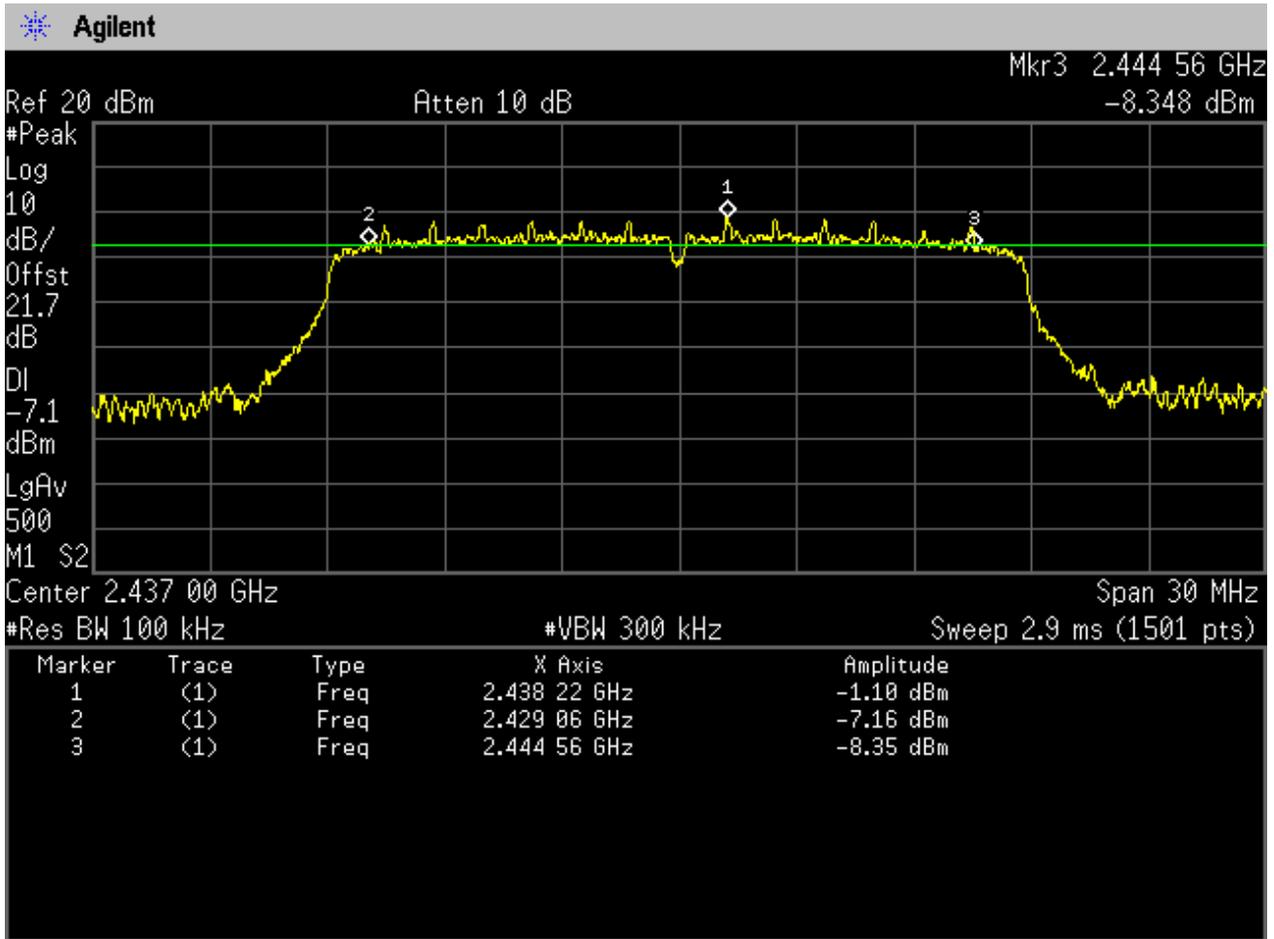
2.6 11G6-T-Ant1



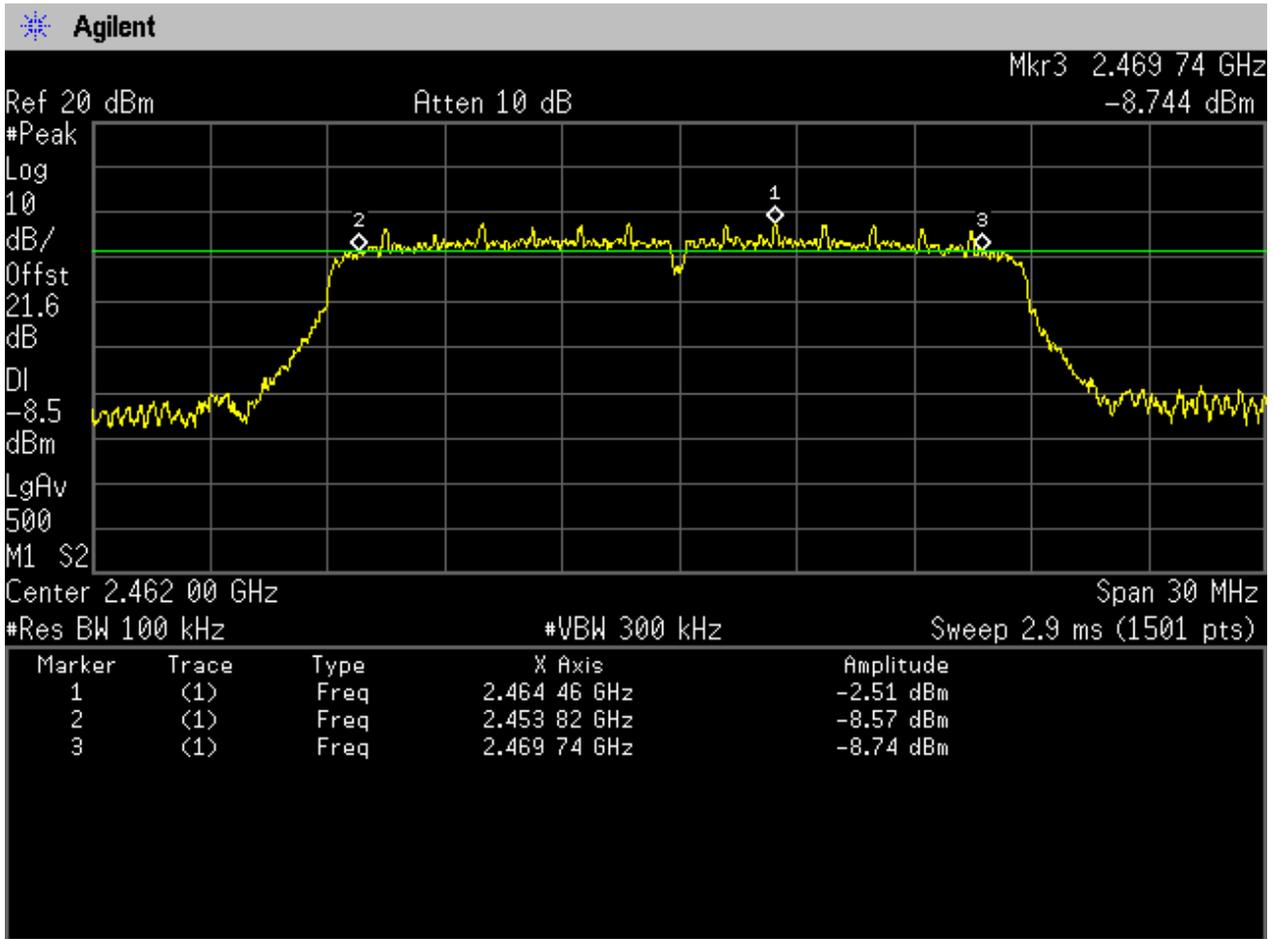
2.7 11N0-20B-Ant1



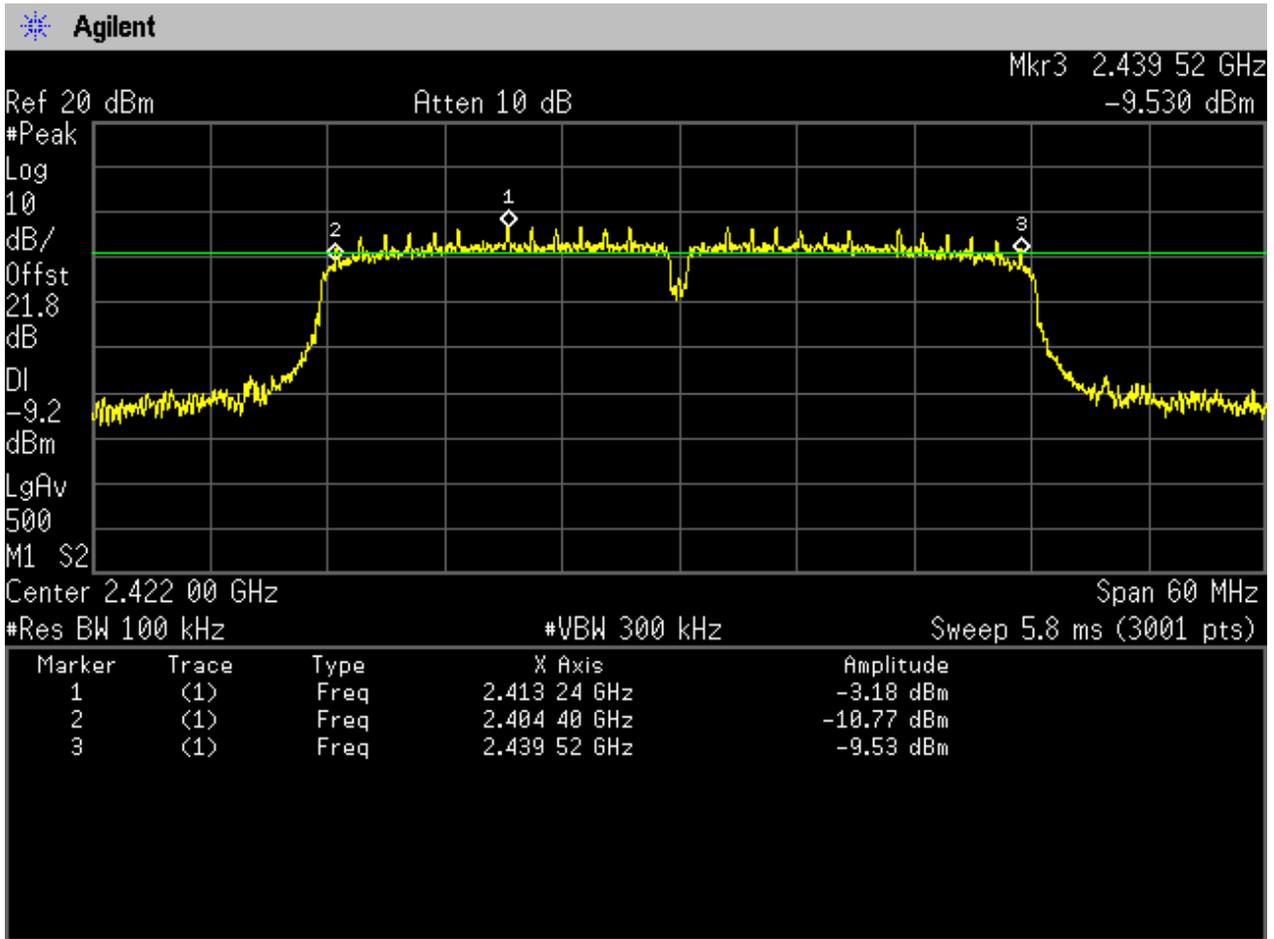
2.8 11N0-20M-Ant1



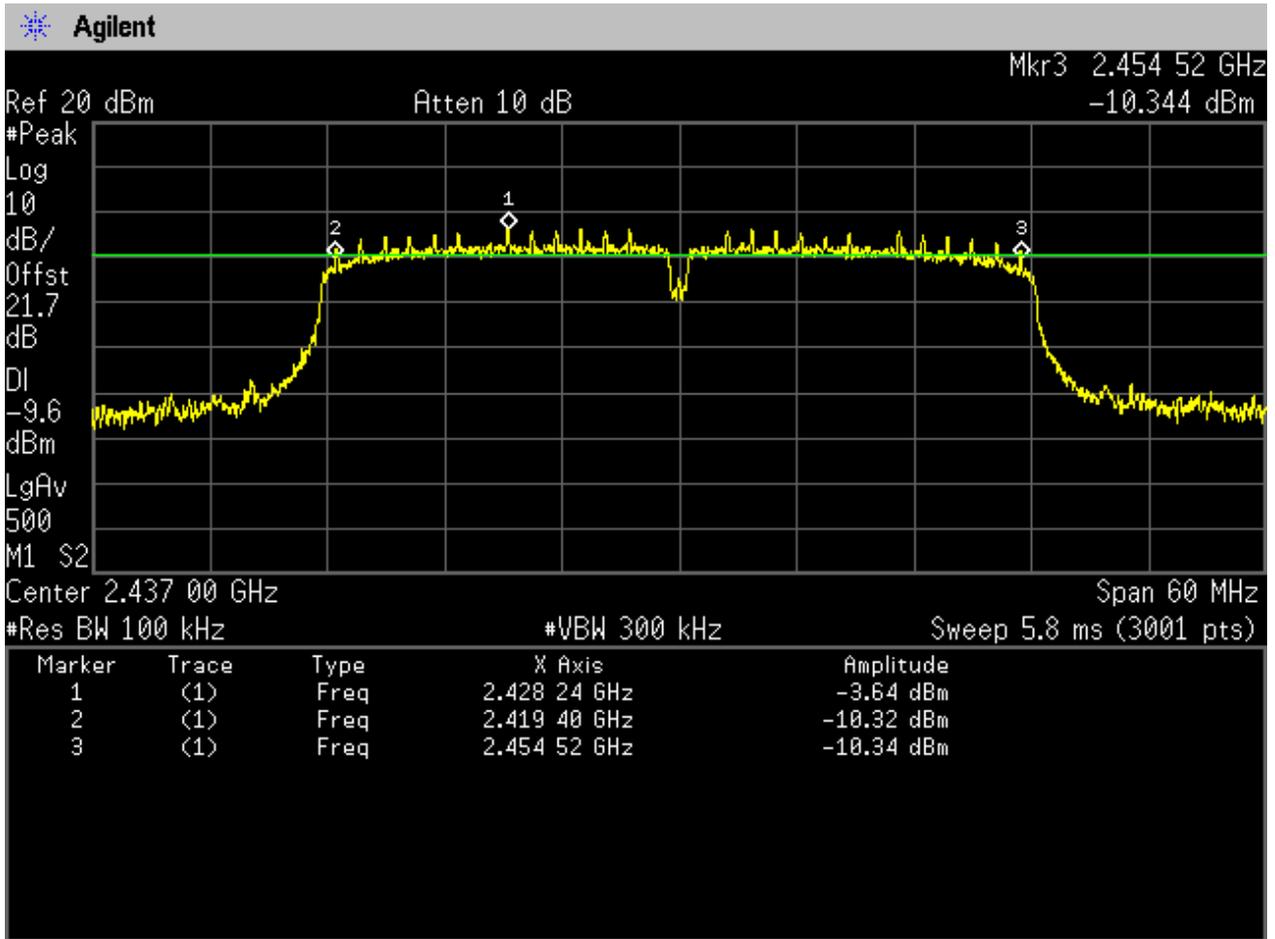
2.9 11N0-20T-Ant1



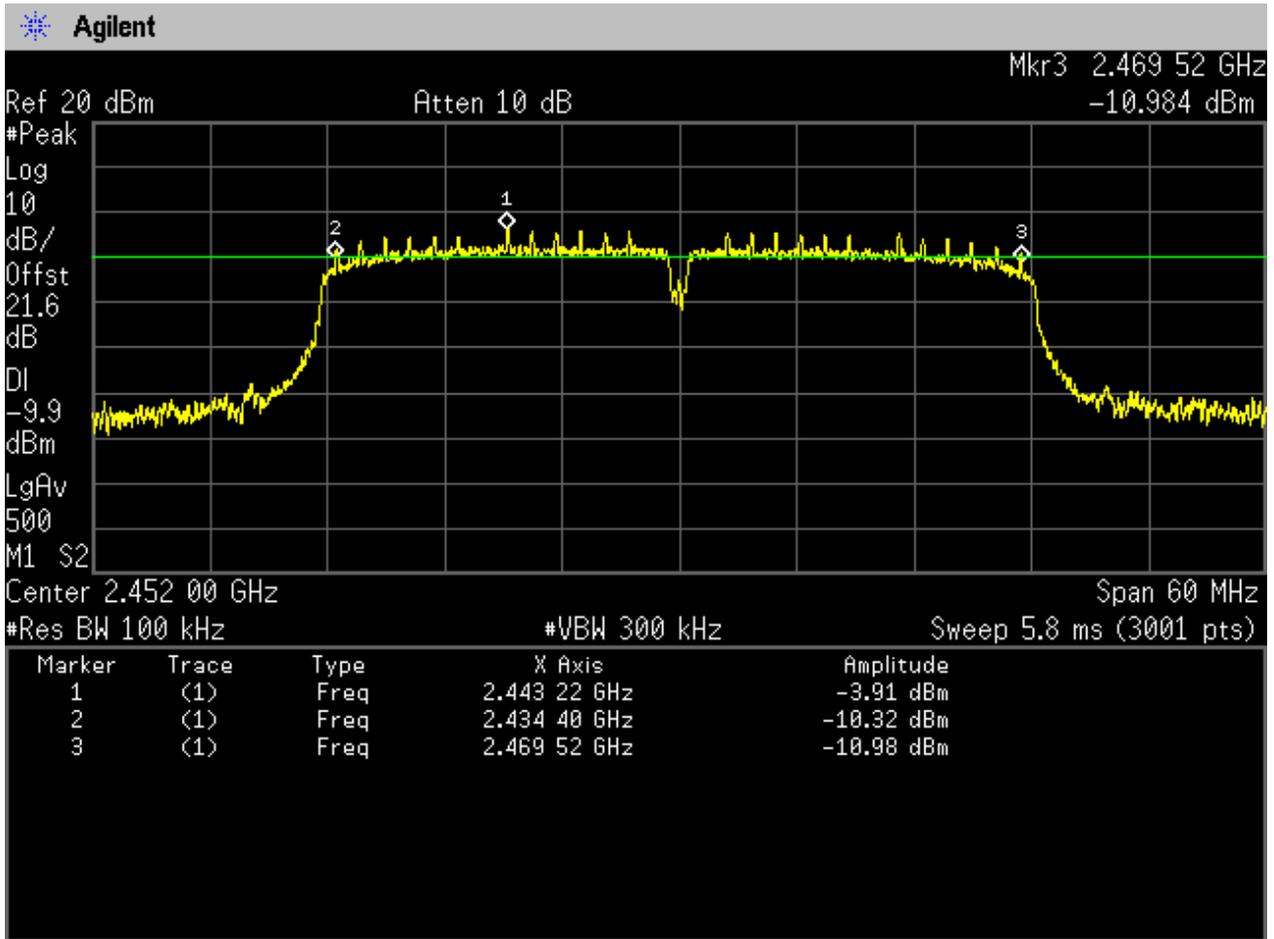
2.1011N0-40B-Ant1



2.1111N0-40M-Ant1



2.1211N0-40T-Ant1





Annex B: Occupied Bandwidth



For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

1 Result Table

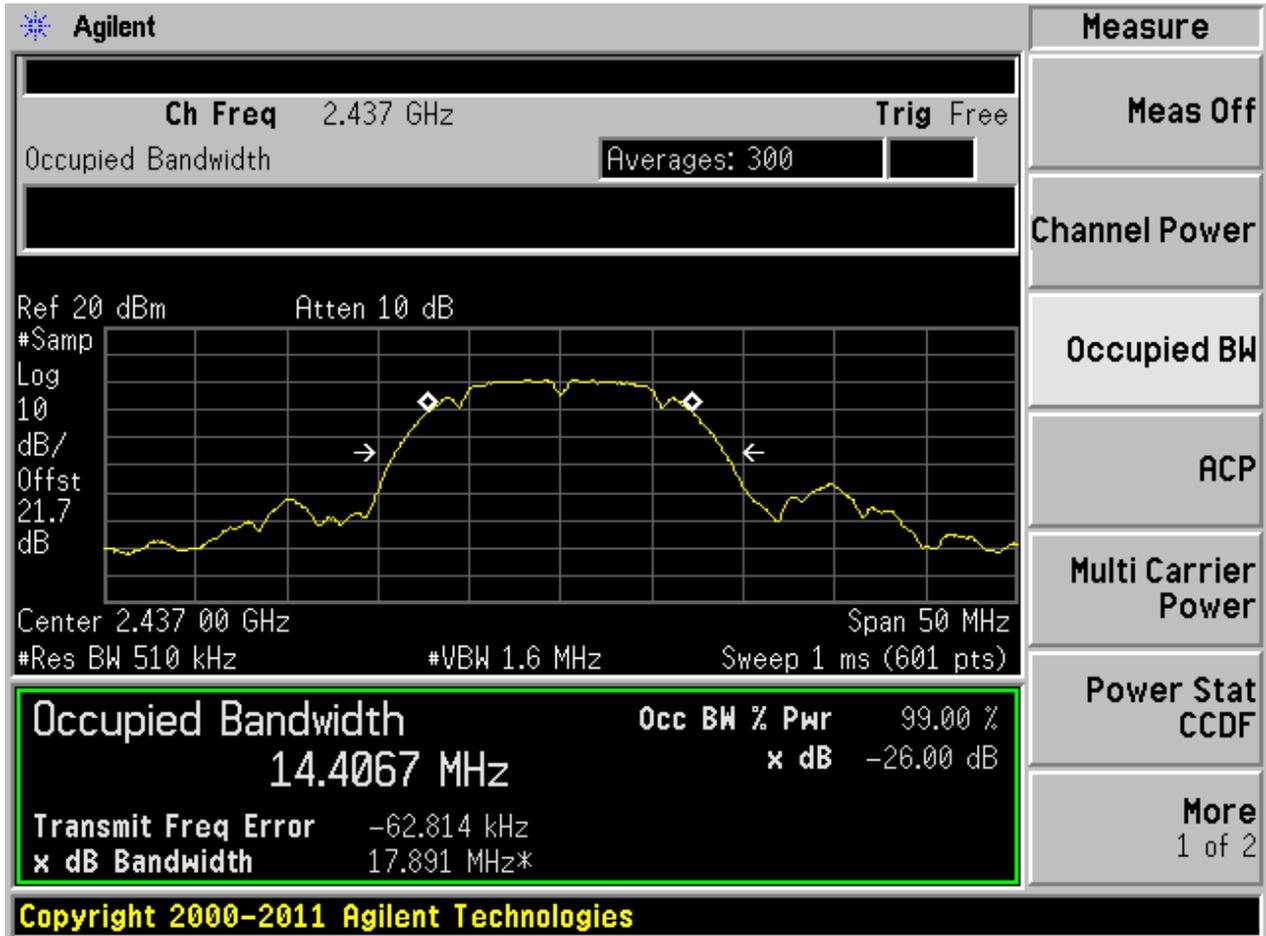
EUT Conf.	Ant.	Occupied Bandwidth [MHz]	Verdict
11B1-B-Ant1	Ant 1	14.44	Pass
11B1-M-Ant1	Ant 1	14.41	Pass
11B1-T-Ant1	Ant 1	14.40	Pass
11G6-B-Ant1	Ant 1	16.47	Pass
11G6-M-Ant1	Ant 1	16.44	Pass
11G6-T-Ant1	Ant 1	16.46	Pass
11N0-20B-Ant1	Ant 1	17.51	Pass
11N0-20M-Ant1	Ant 1	17.50	Pass
11N0-20T-Ant1	Ant 1	17.53	Pass
11N0-40B-Ant1	Ant 1	35.61	Pass
11N0-40M-Ant1	Ant 1	36.57	Pass
11N0-40T-Ant1	Ant 1	35.61	Pass

2 Test Plot

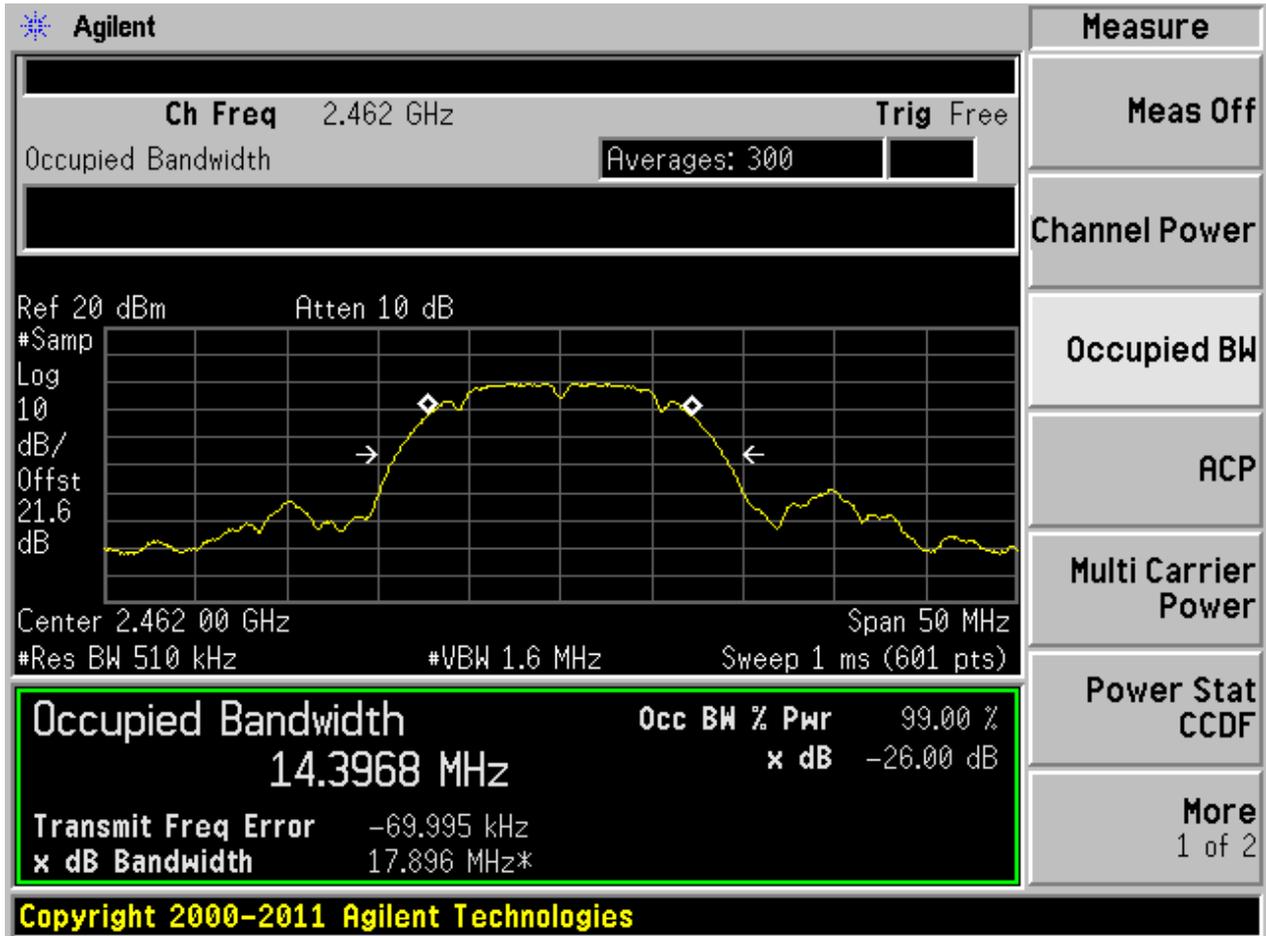
2.1 11B1-B-Ant1



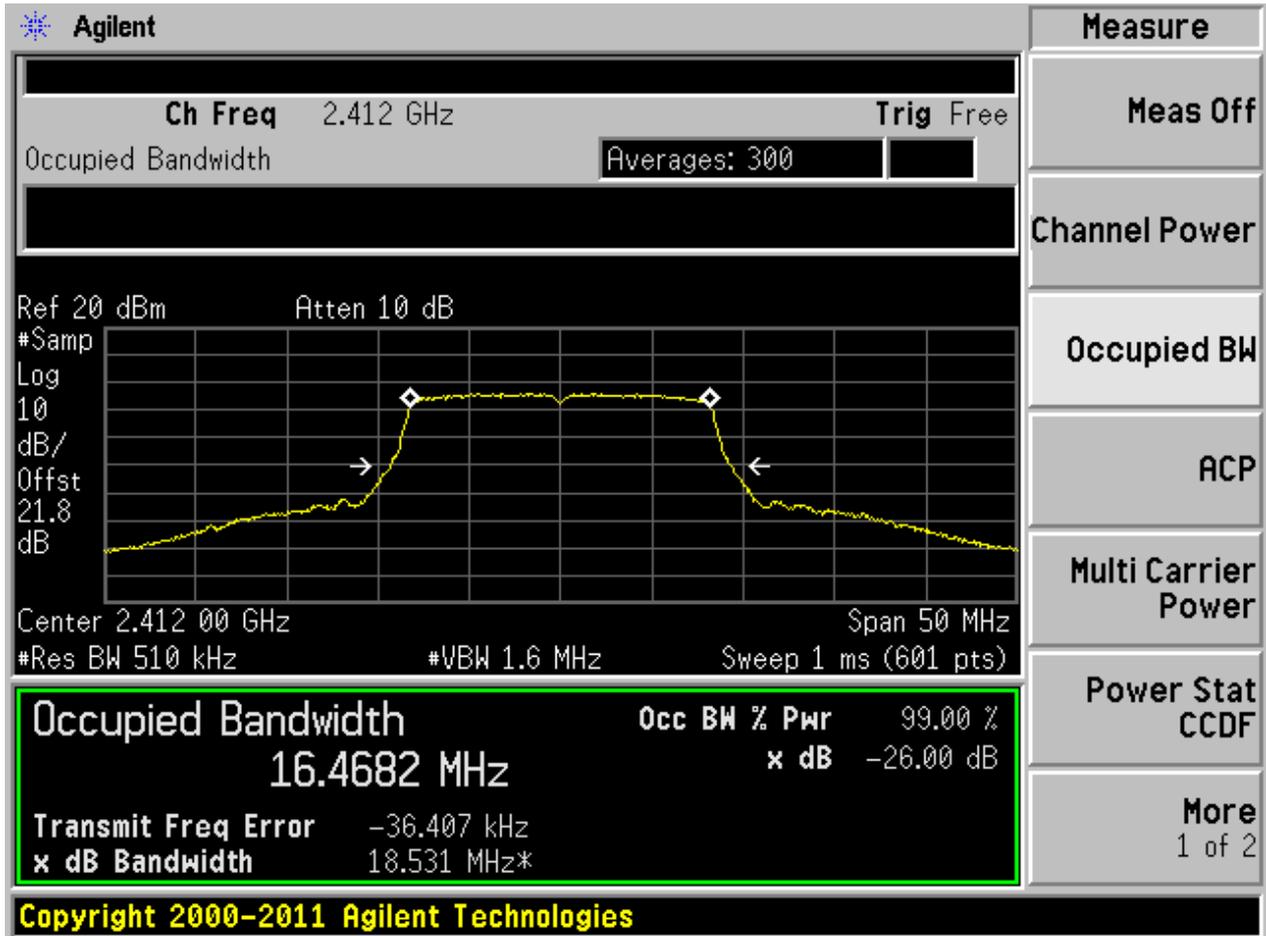
2.2 11B1-M-Ant1



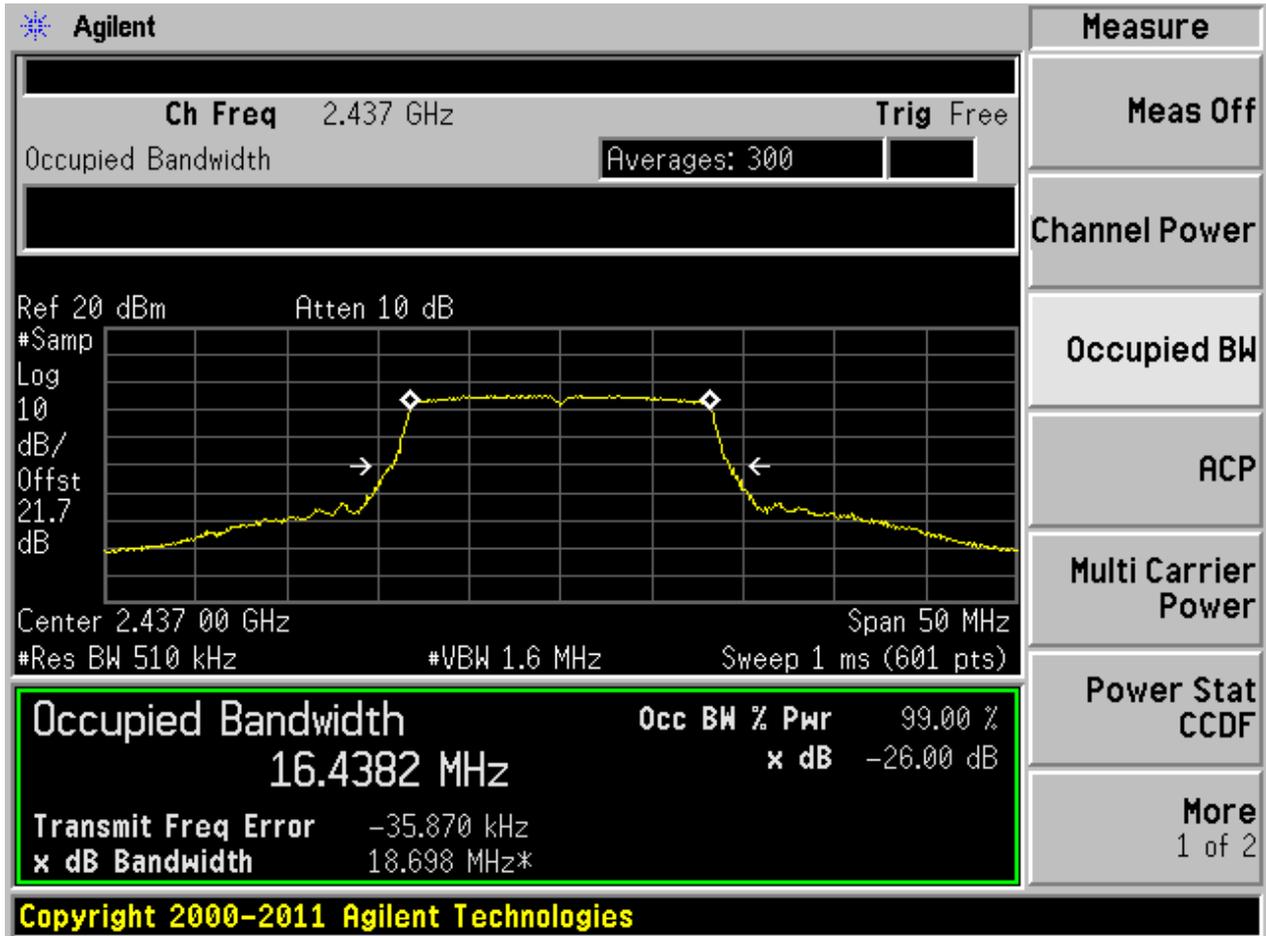
2.3 11B1-T-Ant1



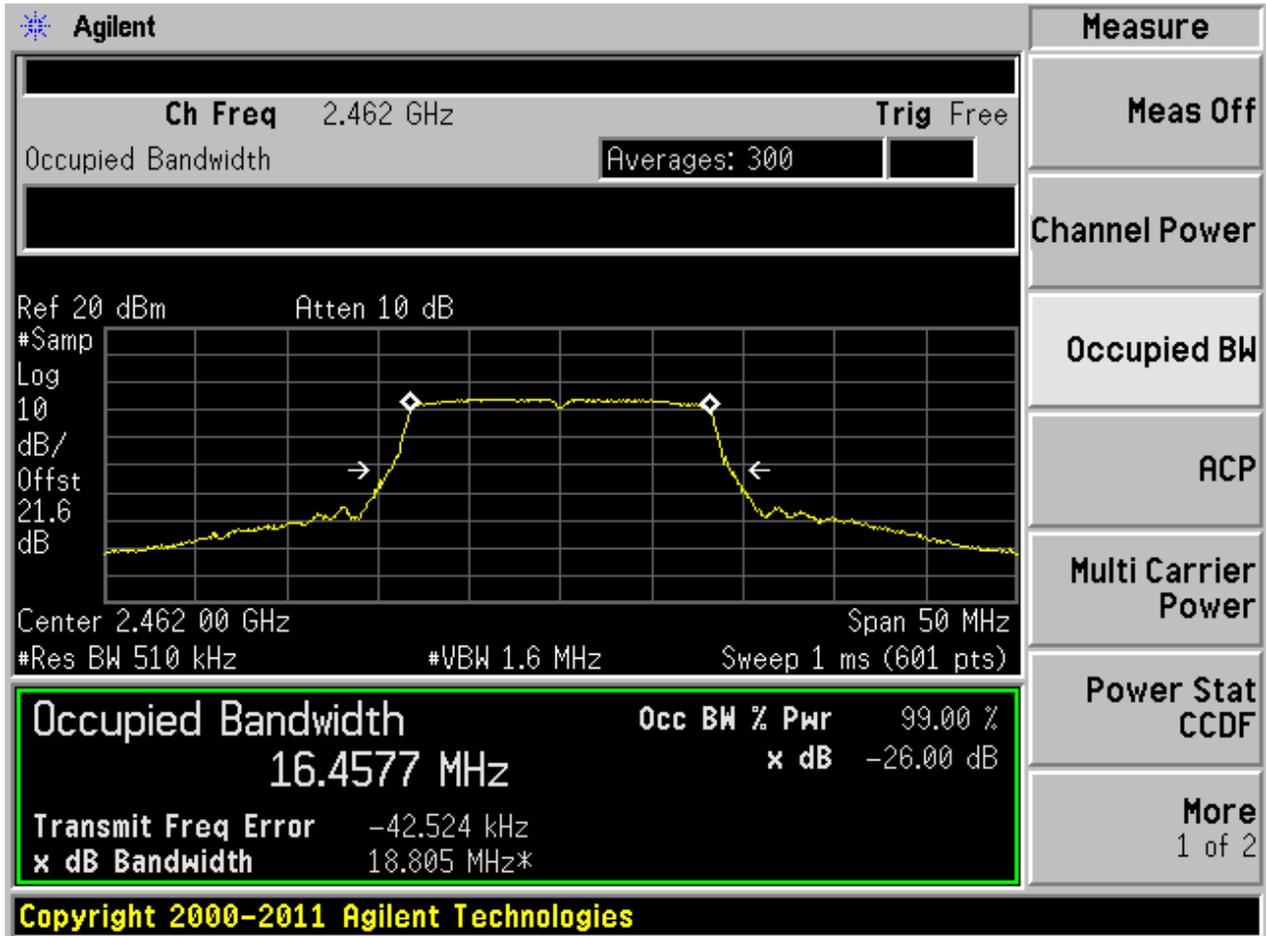
2.4 11G6-B-Ant1



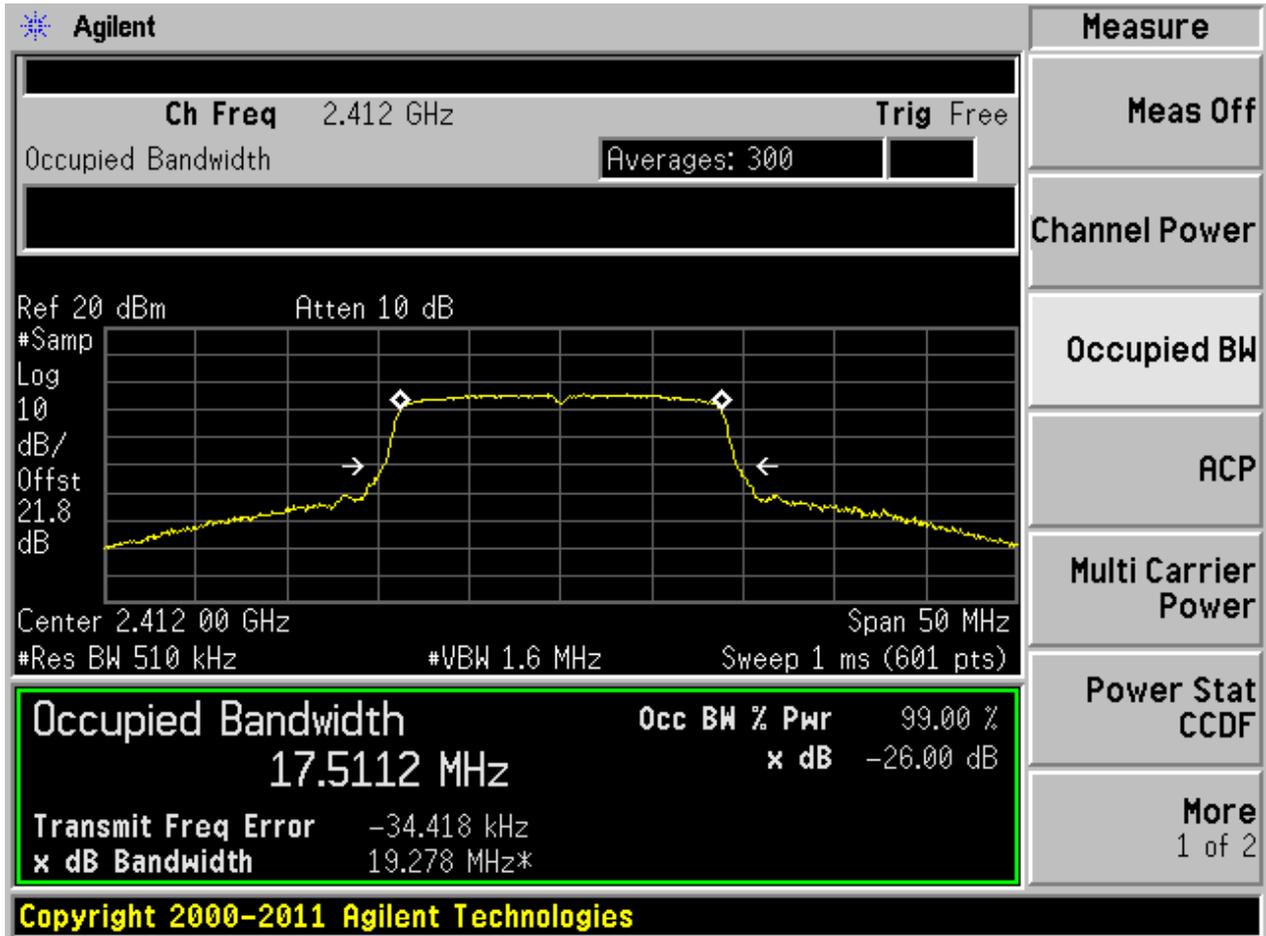
2.5 11G6-M-Ant1



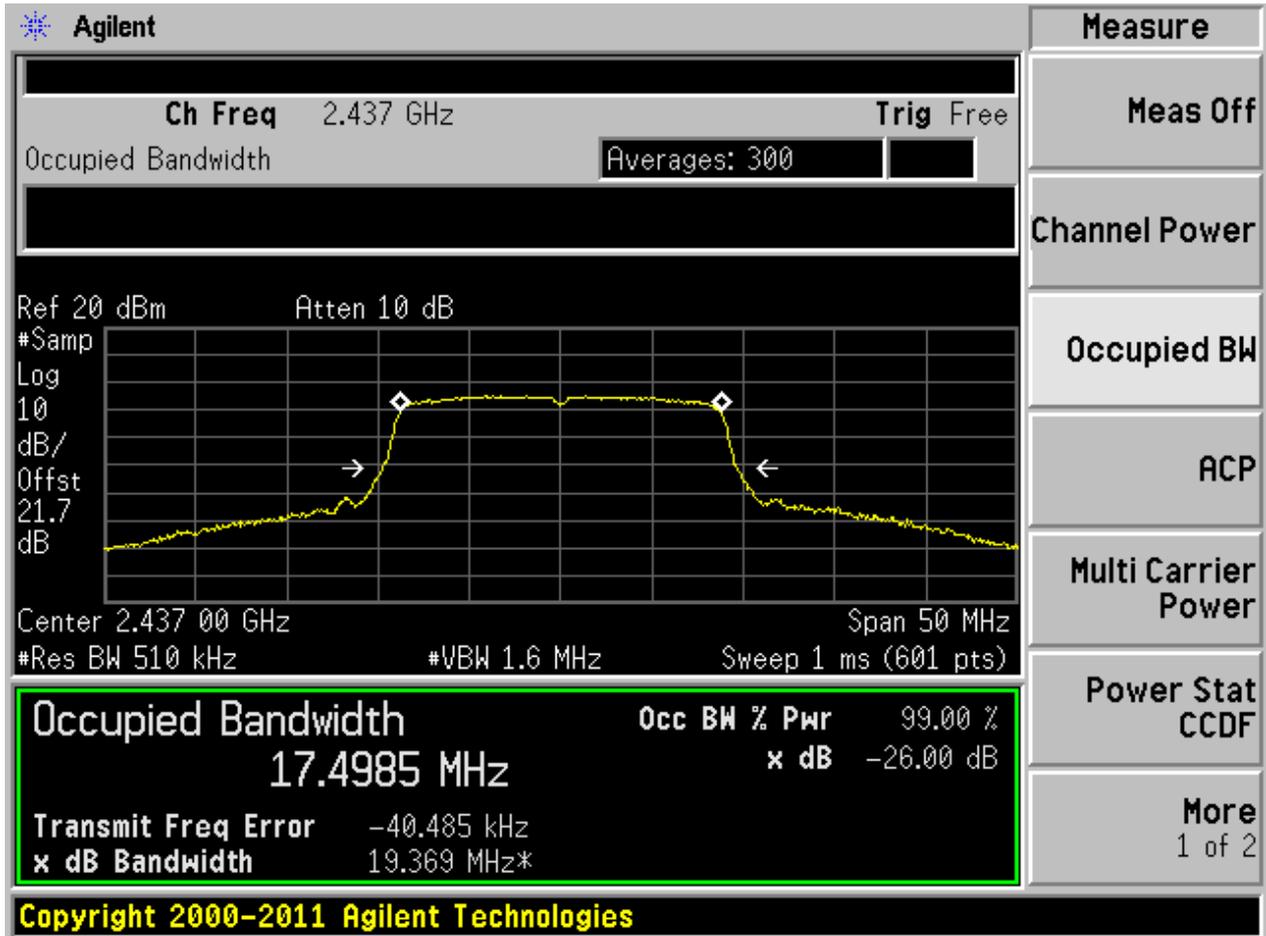
2.6 11G6-T-Ant1



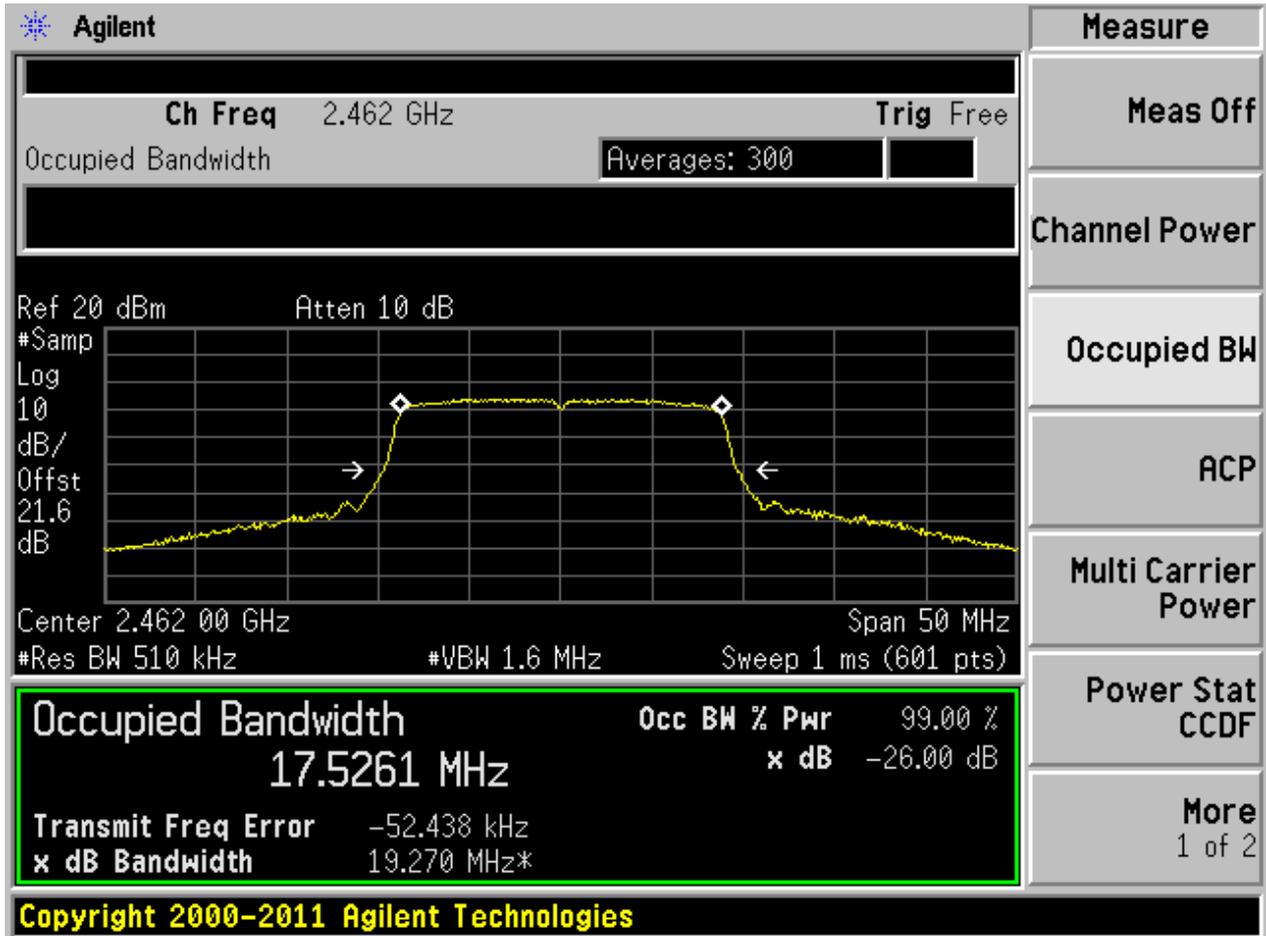
2.7 11N0-20B-Ant1



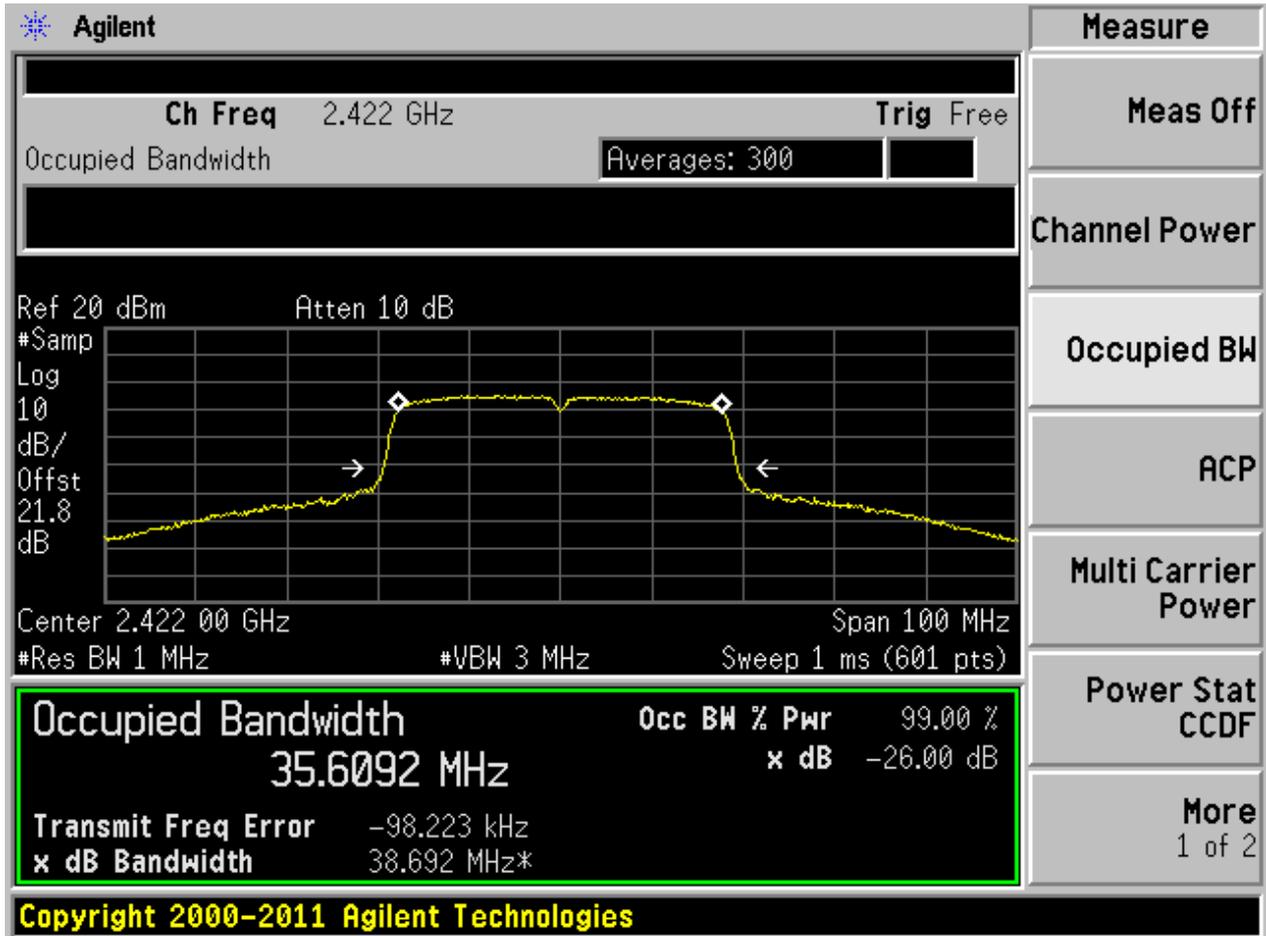
2.8 11N0-20M-Ant1



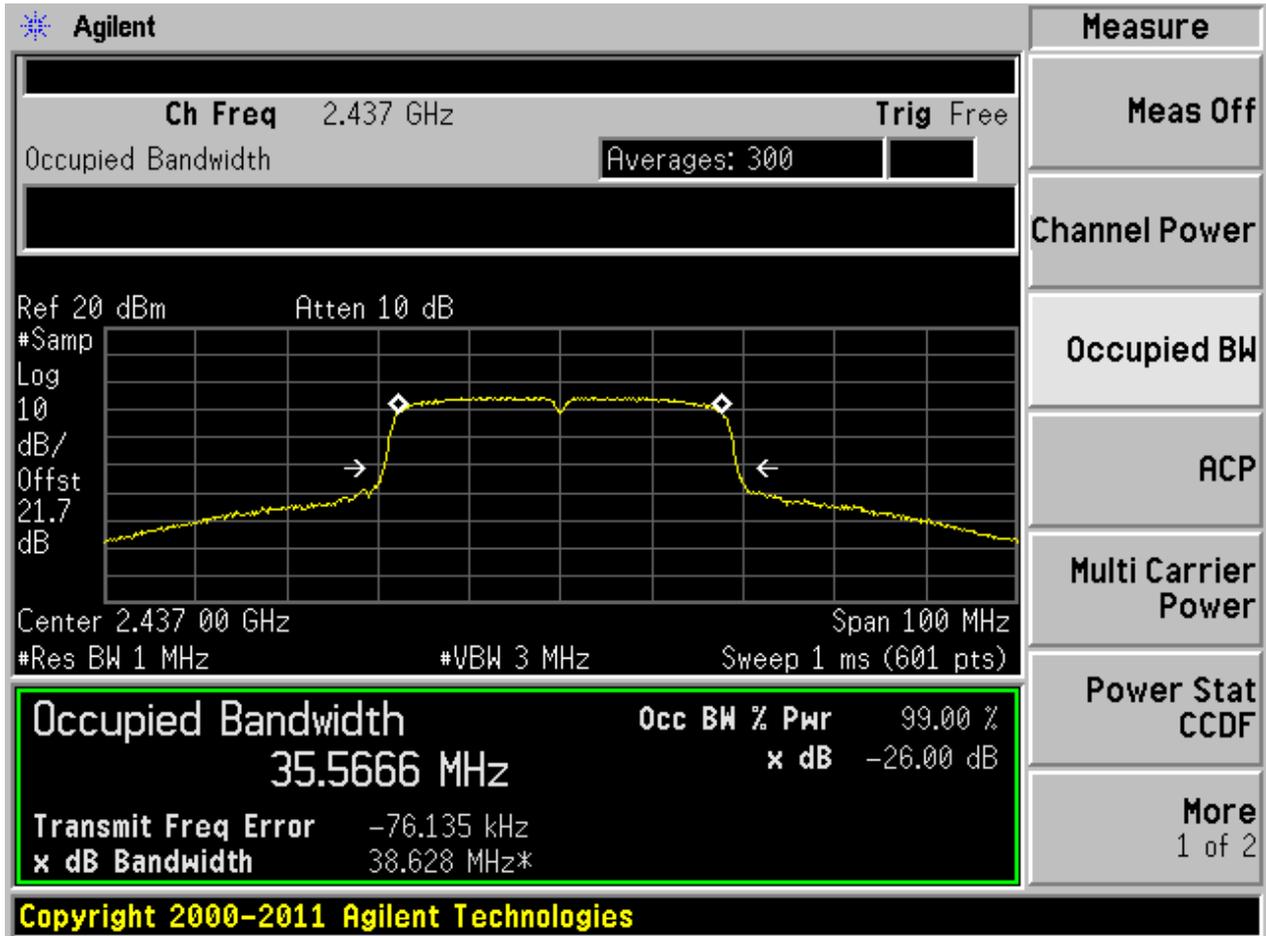
2.9 11N0-20T-Ant1



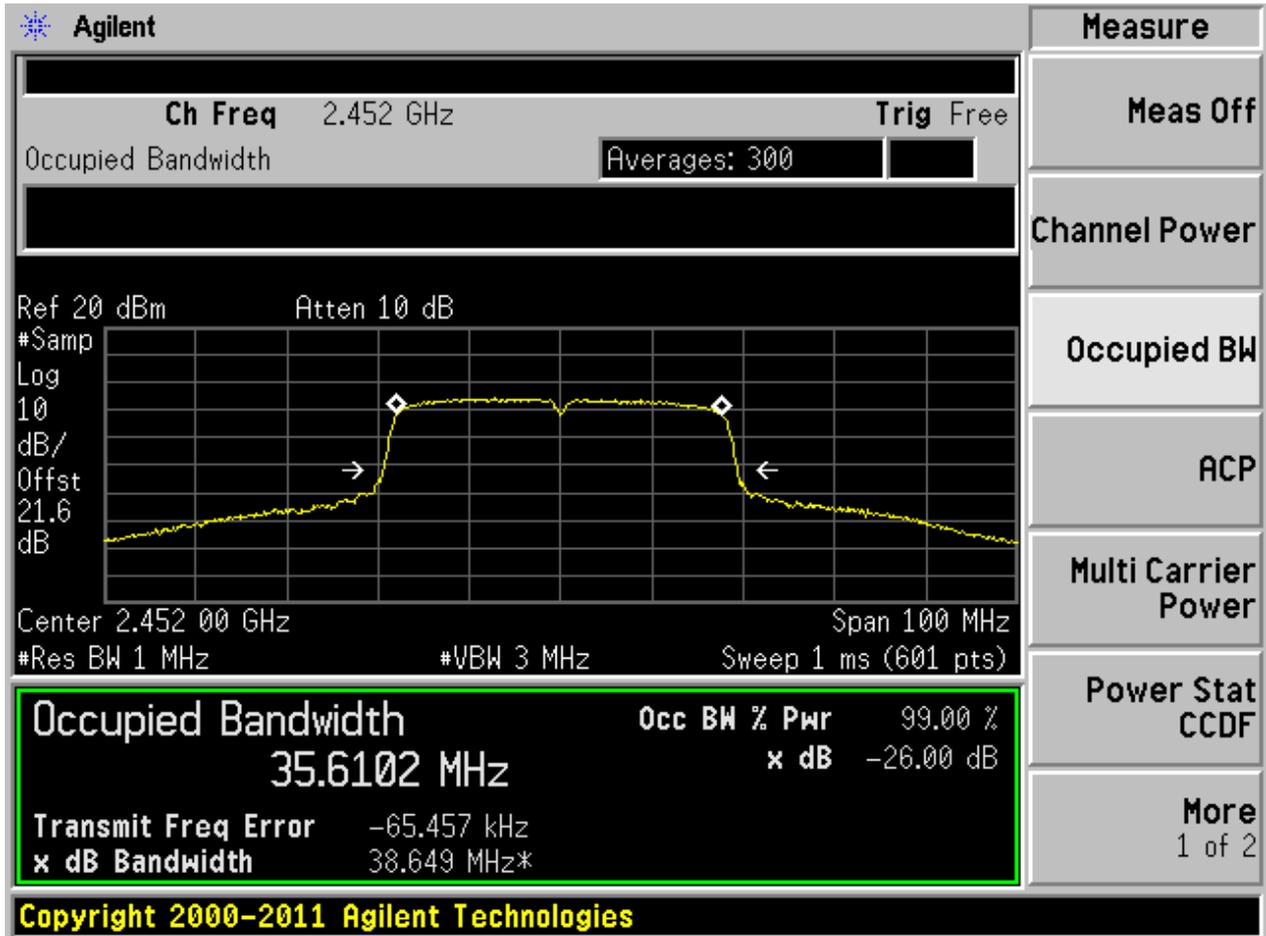
2.1011N0-40B-Ant1



2.1111N0-40M-Ant1



2.1211N0-40T-Ant1





Annex C: Maximum Peak Conducted Output Power



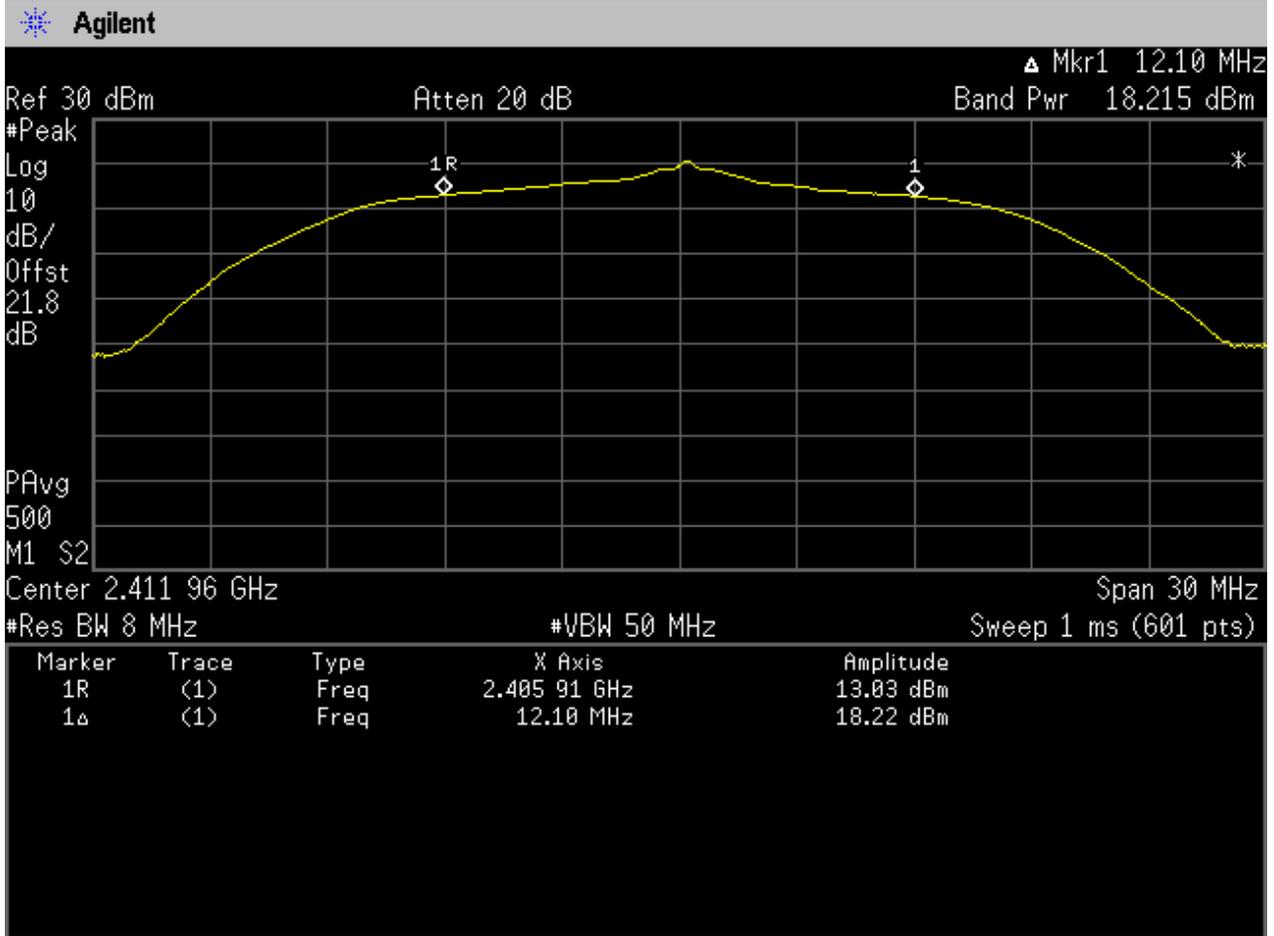
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain (respectively as Ant 1, Ant 2, ..., Ant N) and then combined into the final result (as Ant Sum) to compare with the limit. The result for Ant Sum equals the linear power sum of results for Ant 1 to Ant N (the N denotes the antenna chains used by smart antenna systems).

1 Result Table

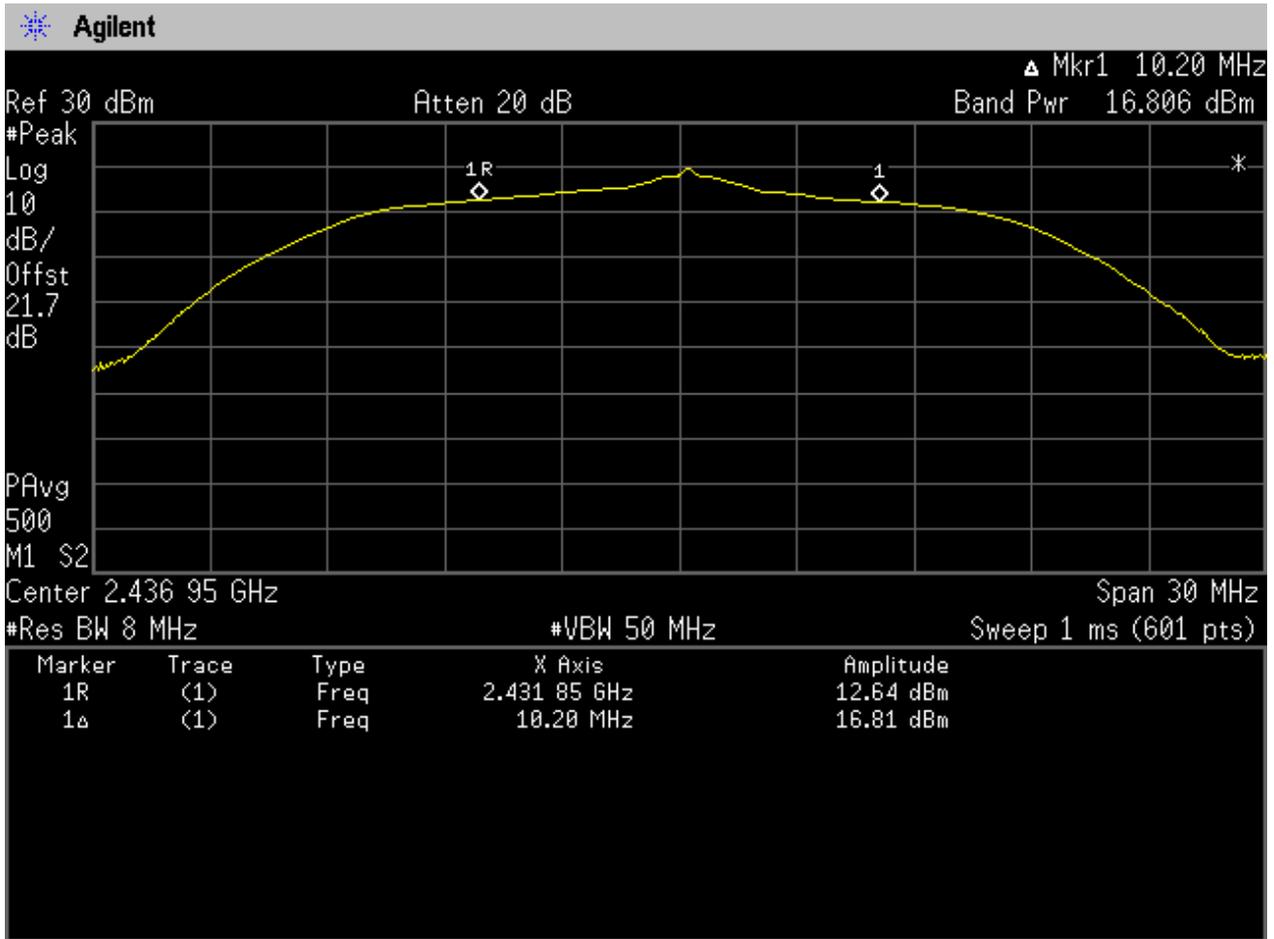
EUT Conf.	Ant.	Maximum Peak Conducted Output Power [dBm]	Verdict
11B1-B-Ant1	Ant 1	18.22	Pass
11B1-M-Ant1	Ant 1	16.81	Pass
11B1-T-Ant1	Ant 1	15.88	Pass
11G6-B-Ant1	Ant 1	19.7	Pass
11G6-M-Ant1	Ant 1	19.1	Pass
11G6-T-Ant1	Ant 1	17.99	Pass
11N0-20B-Ant1	Ant 1	20.64	Pass
11N0-20M-Ant1	Ant 1	20.03	Pass
11N0-20T-Ant1	Ant 1	19.08	Pass
11N0-40B-Ant1	Ant 1	20.5	Pass
11N0-40M-Ant1	Ant 1	19.95	Pass
11N0-40T-Ant1	Ant 1	19.55	Pass

2 Test Plot

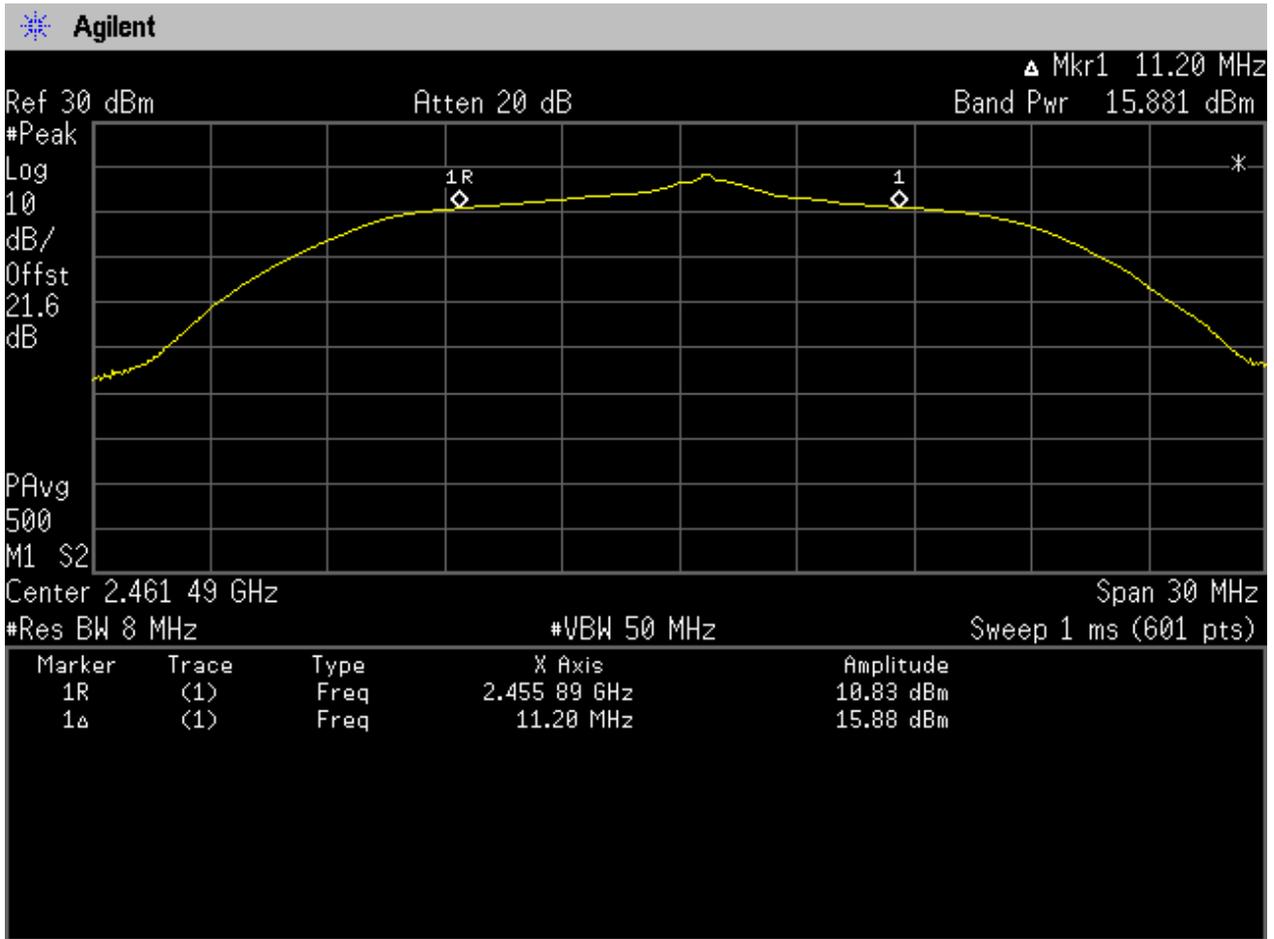
2.1 11B1-B-Ant1



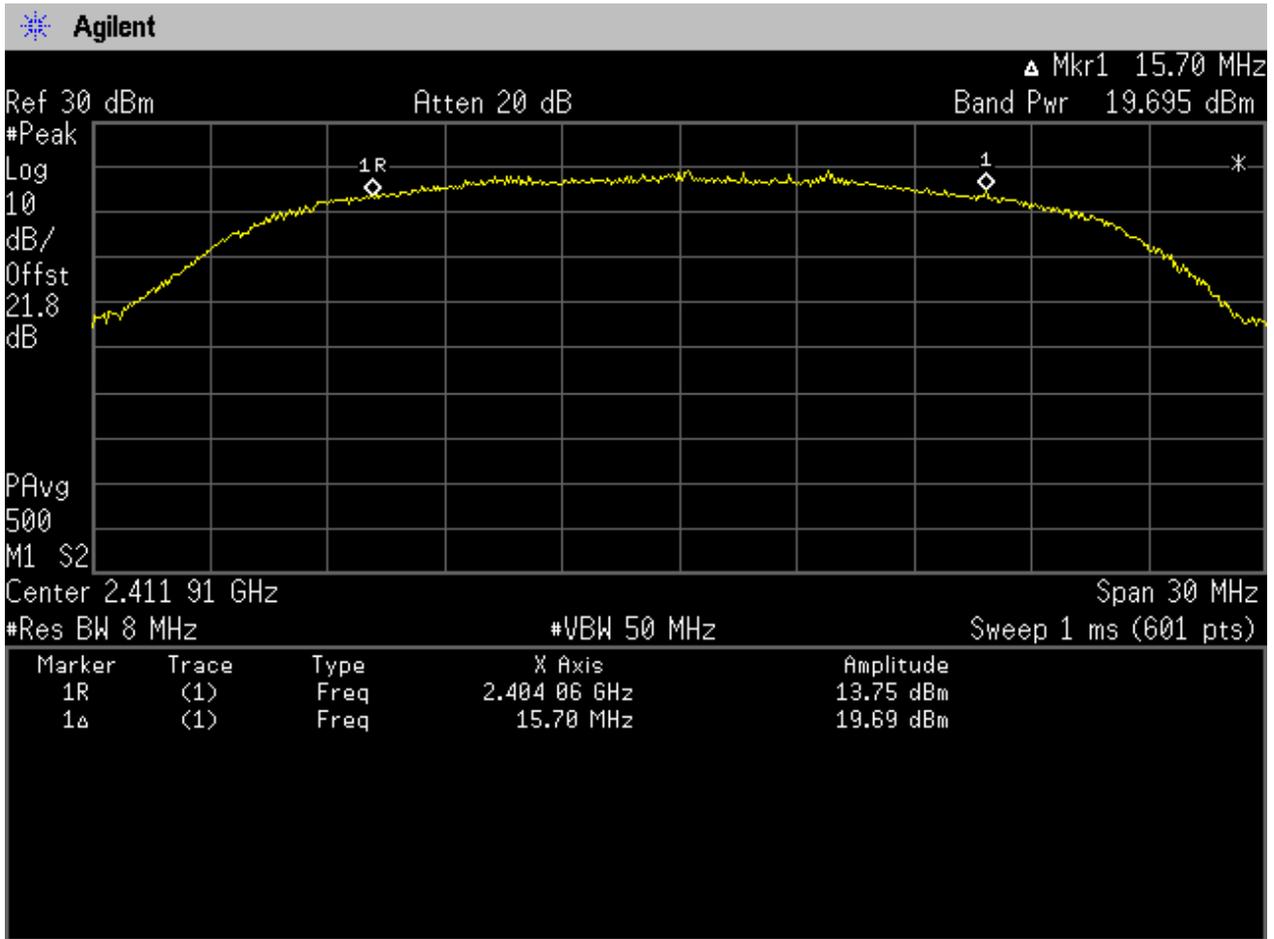
2.2 11B1-M-Ant1



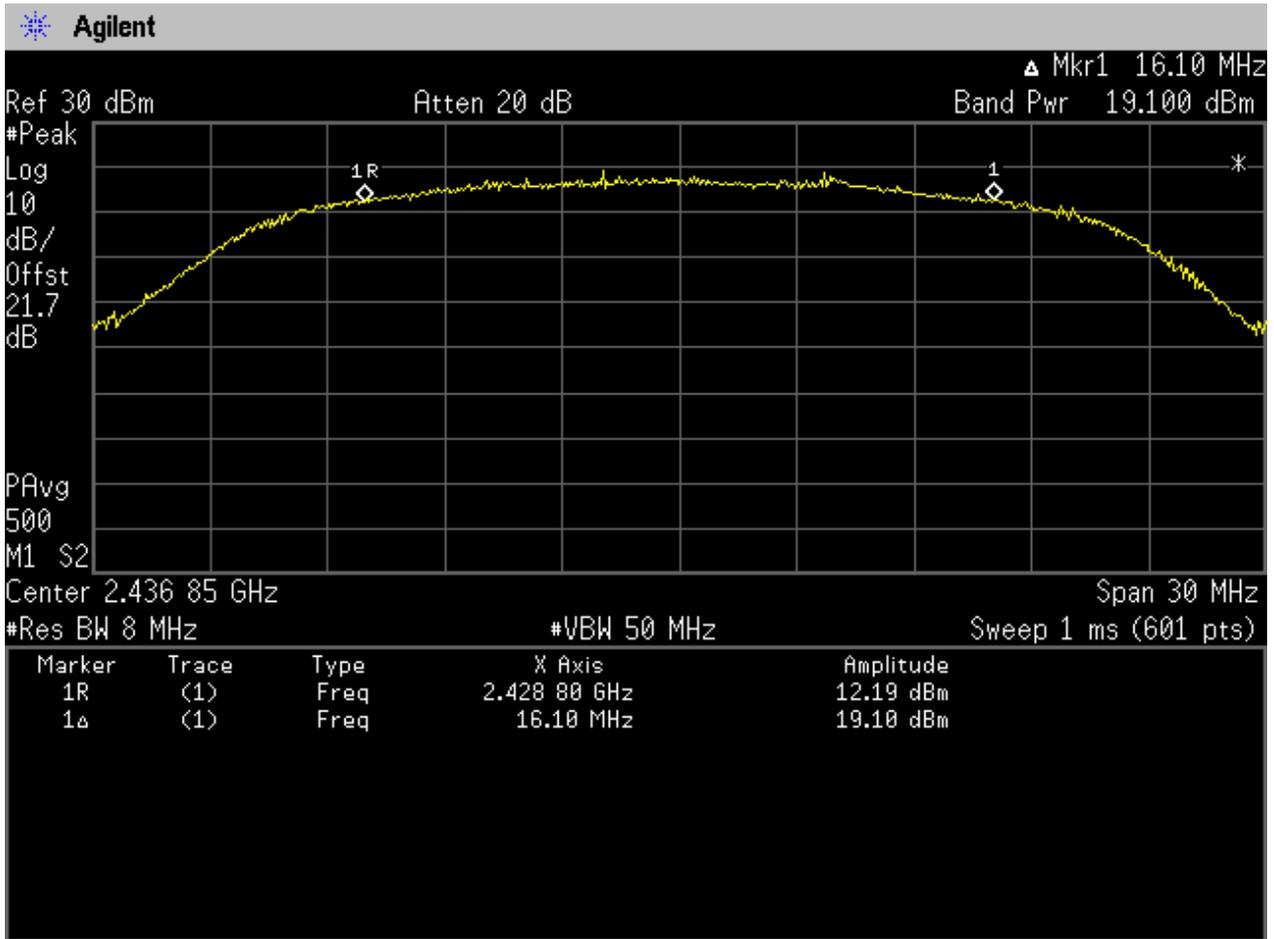
2.3 11B1-T-Ant1



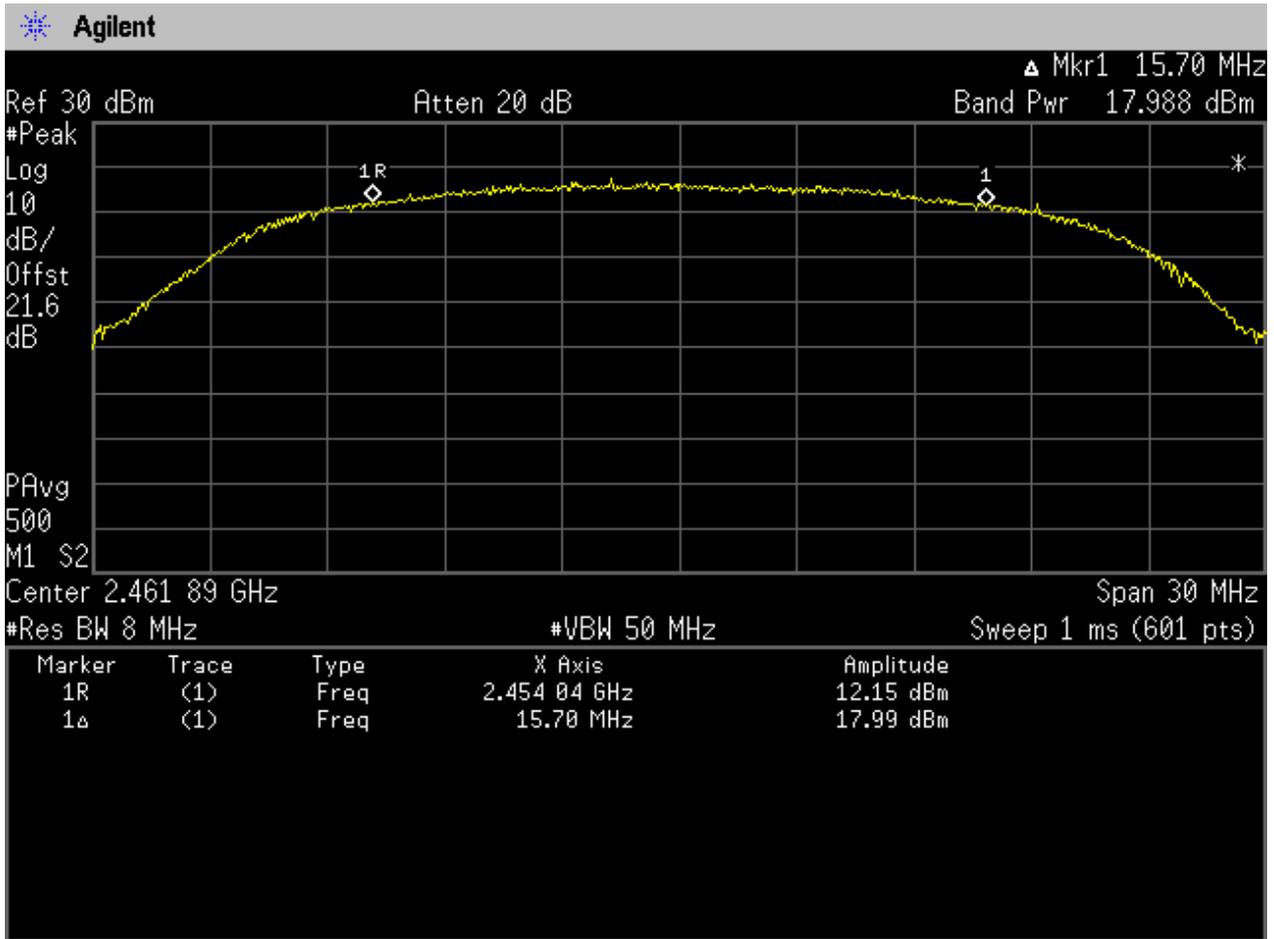
2.4 11G6-B-Ant1



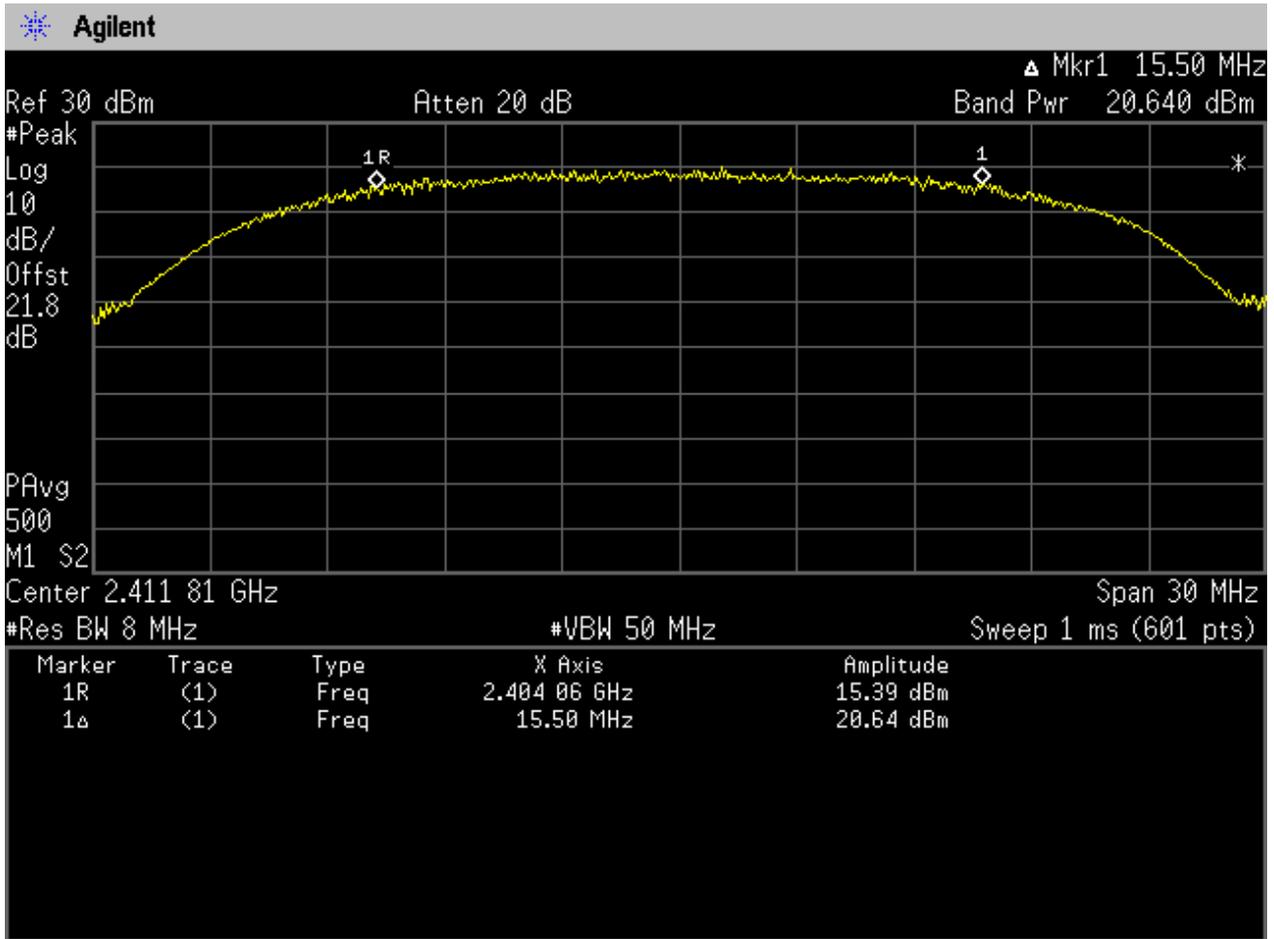
2.5 11G6-M-Ant1



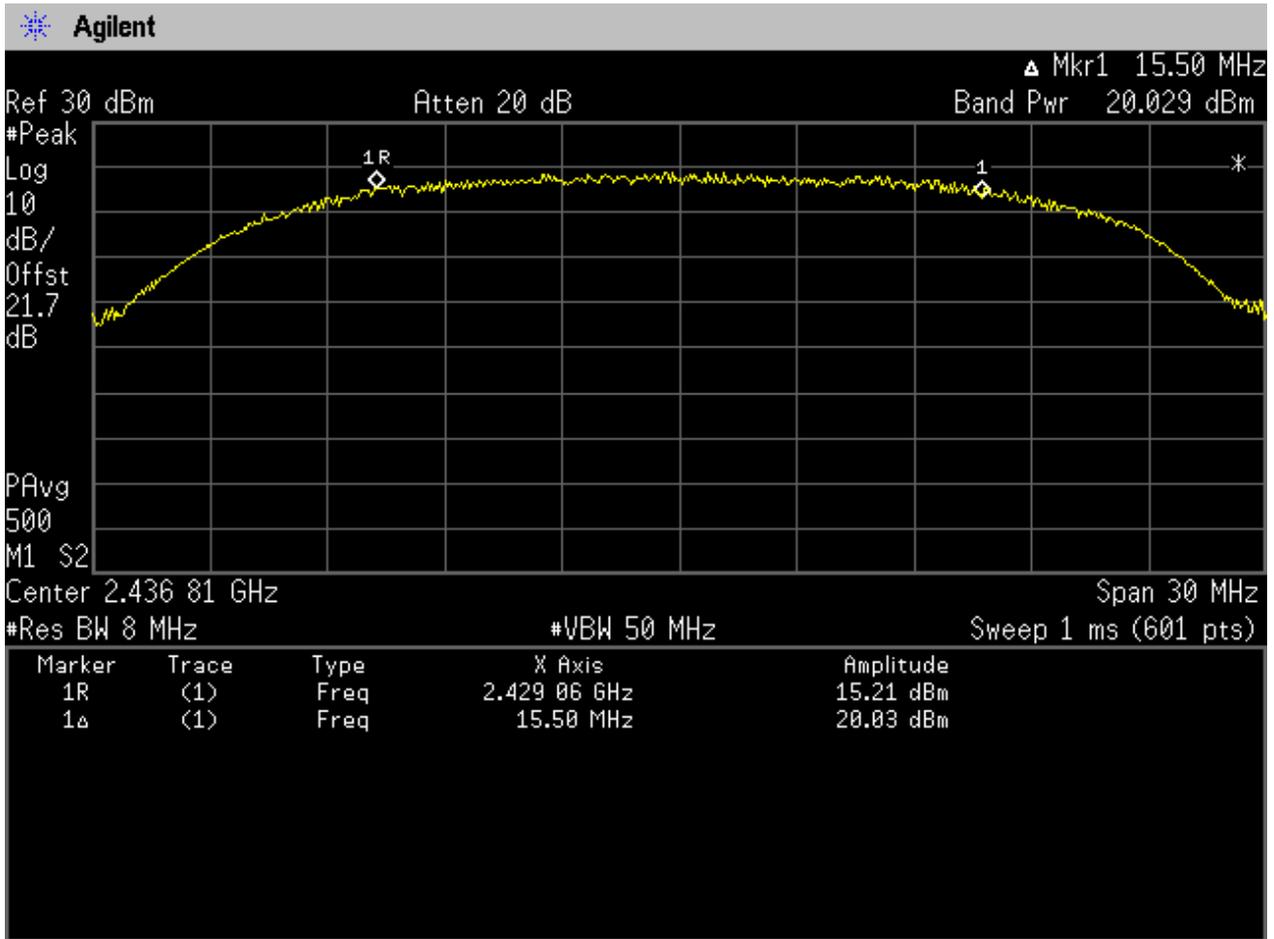
2.6 11G6-T-Ant1



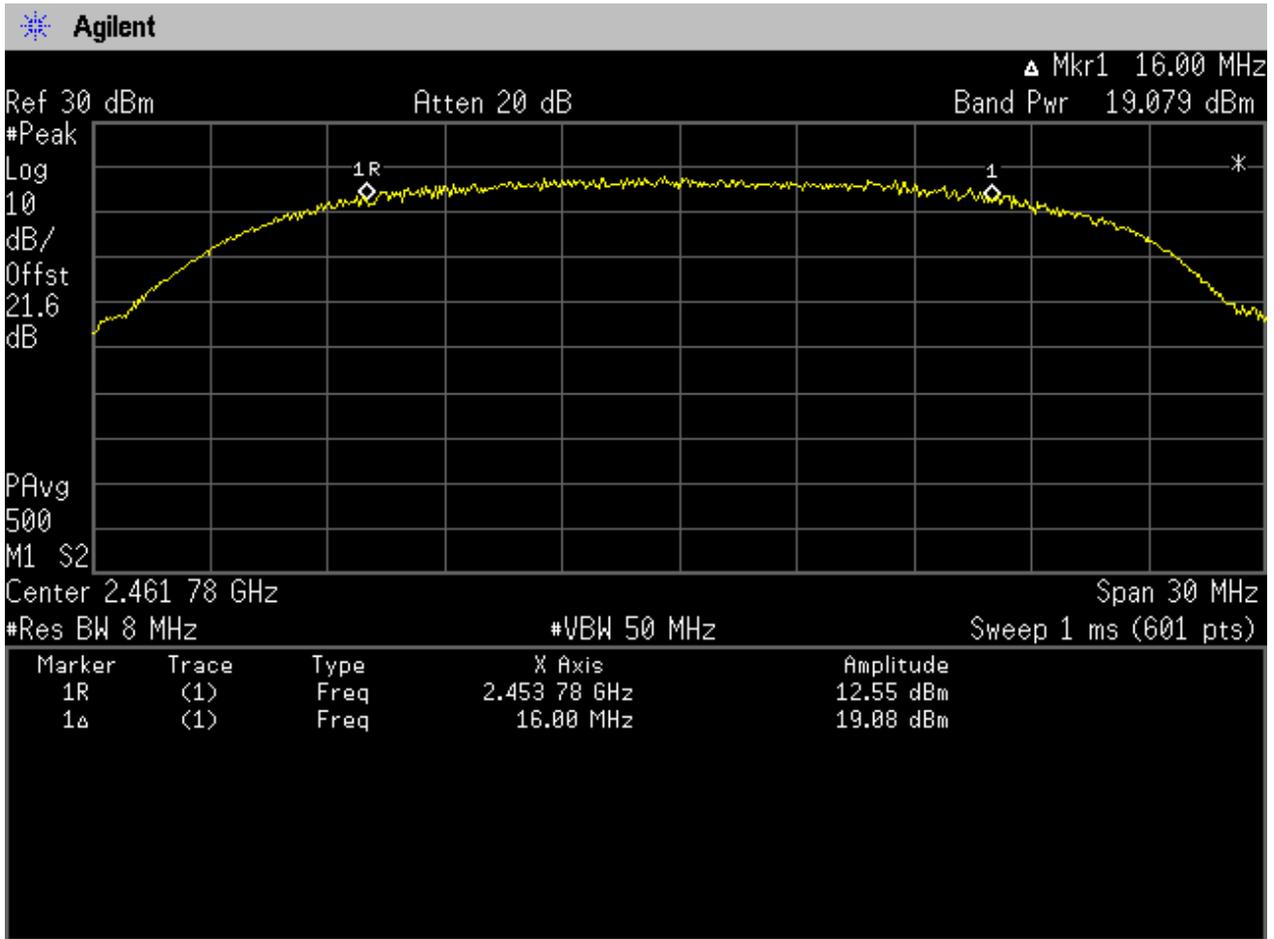
2.7 11N0-20B-Ant1



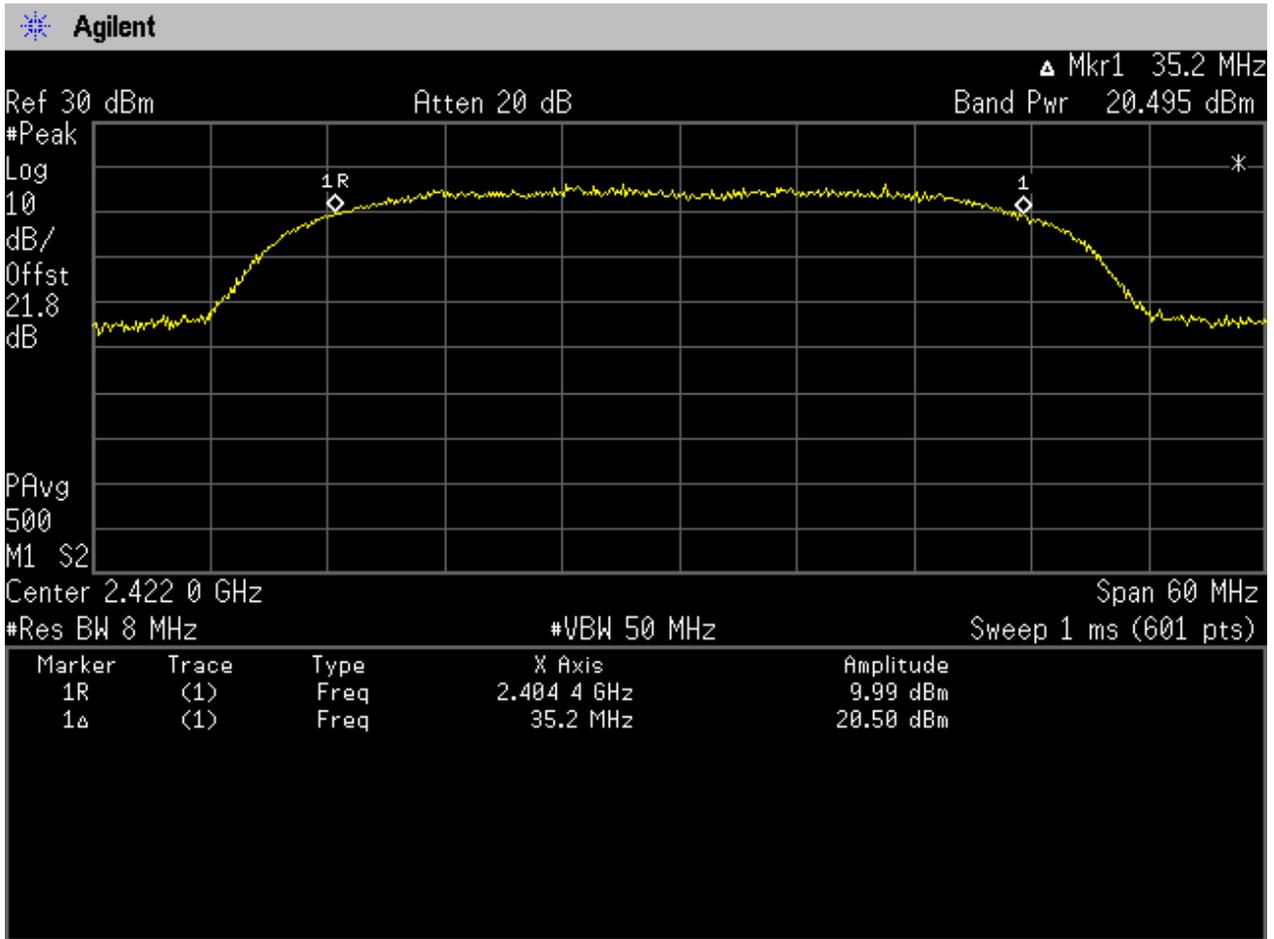
2.8 11N0-20M-Ant1



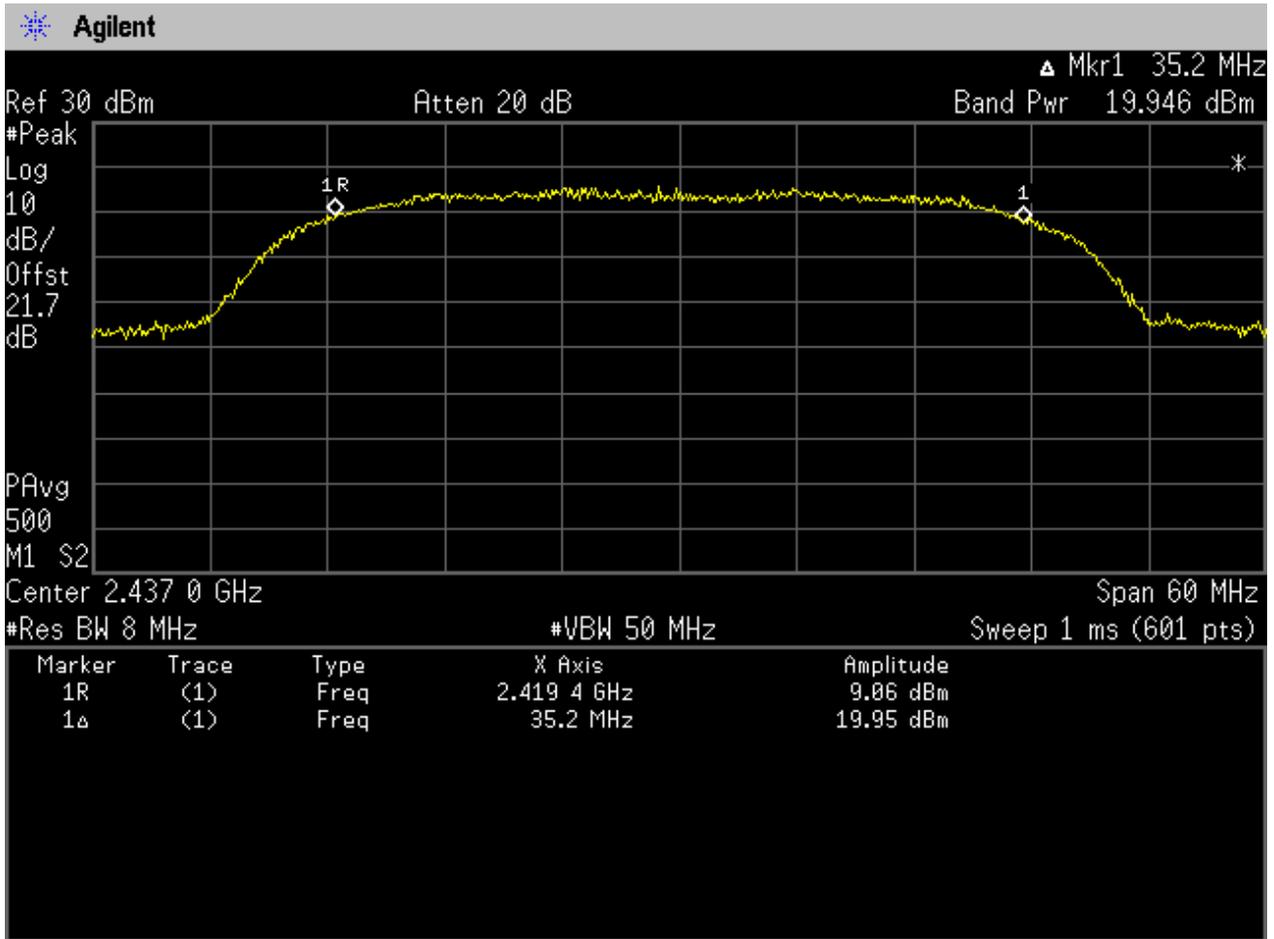
2.9 11N0-20T-Ant1



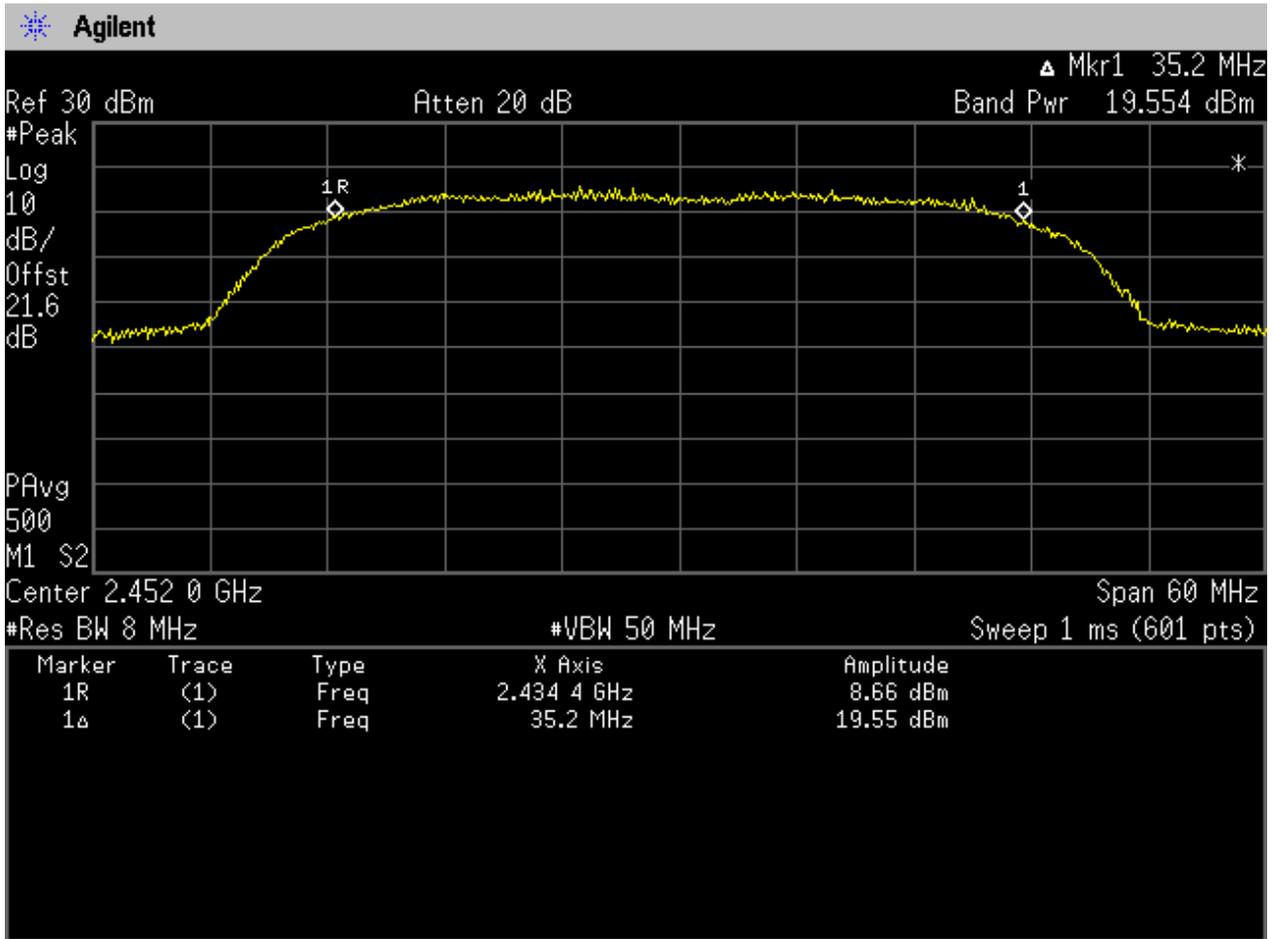
2.1011N0-40B-Ant1



2.1111N0-40M-Ant1



2.1211N0-40T-Ant1





Annex D: Maximum Power Spectral Density Level



For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain (respectively as Ant 1, Ant 2, ..., Ant N) and then combined into the final result (as Ant Sum) to compare with the limit. The result for Ant Sum equals the linear power sum of results for Ant 1 to Ant N (the N denotes the antenna chains used by smart antenna systems). NOTE that the method is a stringent but convenient consideration, because the measured maximum value for each chain may be located at different frequency occurrence. For the ultimate judgment, the combination of the final result (Trace Sum) should be performed frequency-by-frequency on the measured spectrum trace for each chain (Trace 1, Trace 2, ..., Trace N). Unless otherwise specified, the method for ultimate judgment will not be used.

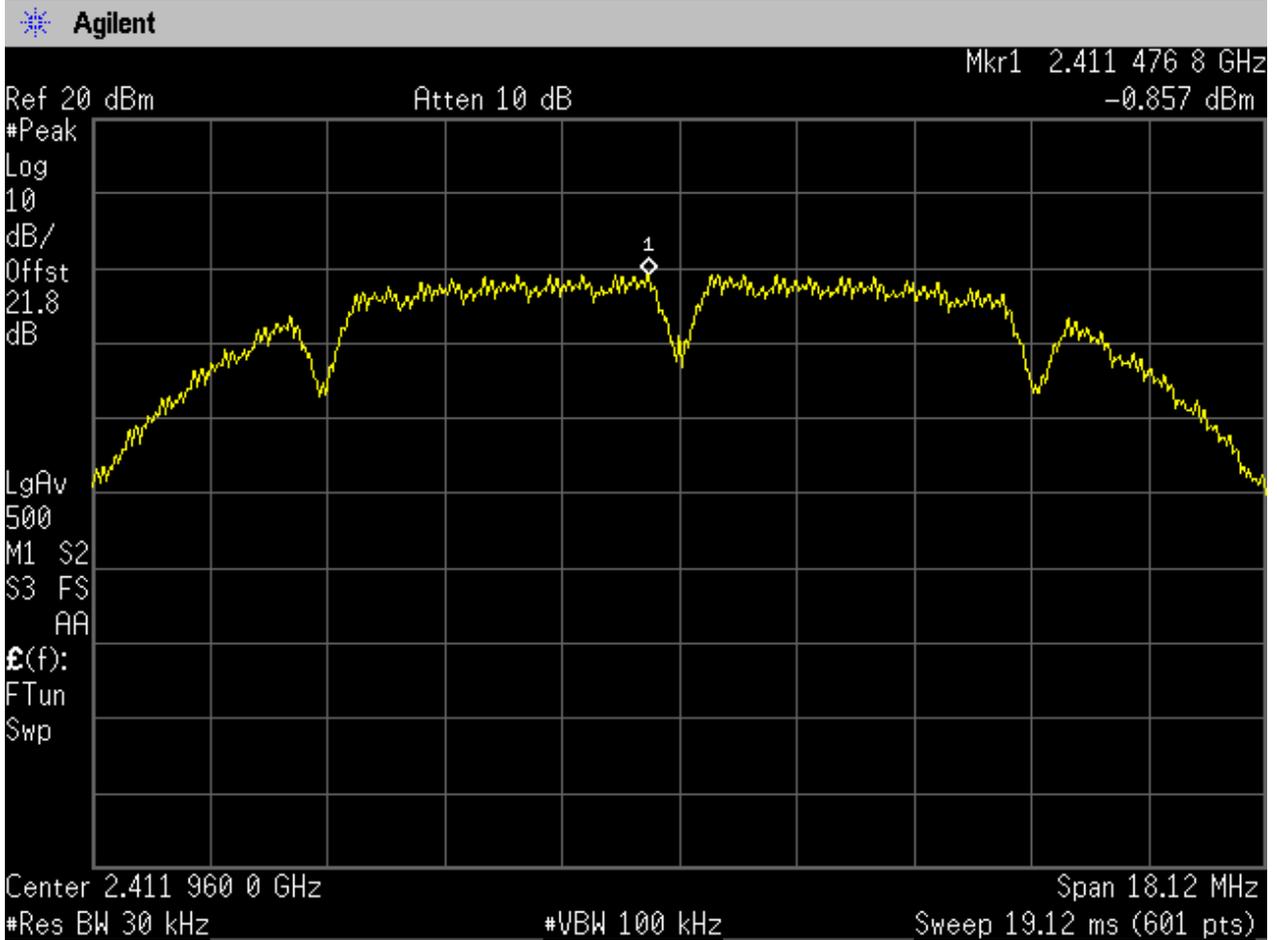
1 Result Table

EUT Conf.	Ant.	Maximum Power Spectral Density Level [dBm]	Verdict
11B1-B-Ant1	Ant 1	< -0.86	Pass
11B1-M-Ant1	Ant 1	< -1.82	Pass
11B1-T-Ant1	Ant 1	< -2.93	Pass
11G6-B-Ant1	Ant 1	< -4.5	Pass
11G6-M-Ant1	Ant 1	< -5.59	Pass
11G6-T-Ant1	Ant 1	< -6.98	Pass
11N0-20B-Ant1	Ant 1	< -4.91	Pass
11N0-20M-Ant1	Ant 1	< -5.37	Pass
11N0-20T-Ant1	Ant 1	< -6.54	Pass
11N0-40B-Ant1	Ant 1	< -8.14	Pass
11N0-40M-Ant1	Ant 1	< -8.49	Pass
11N0-40T-Ant1	Ant 1	< -8.92	Pass

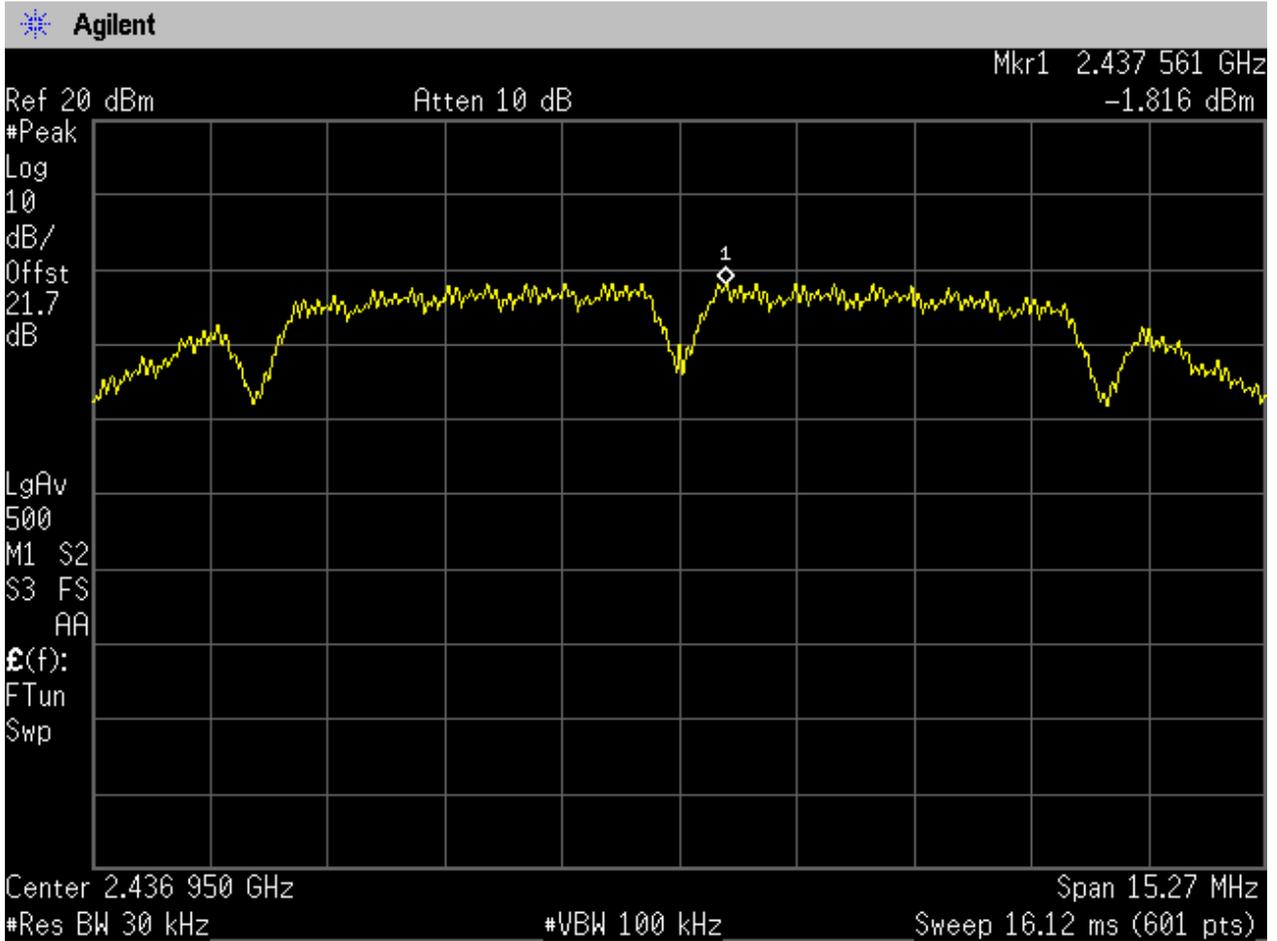


2 Test Plot

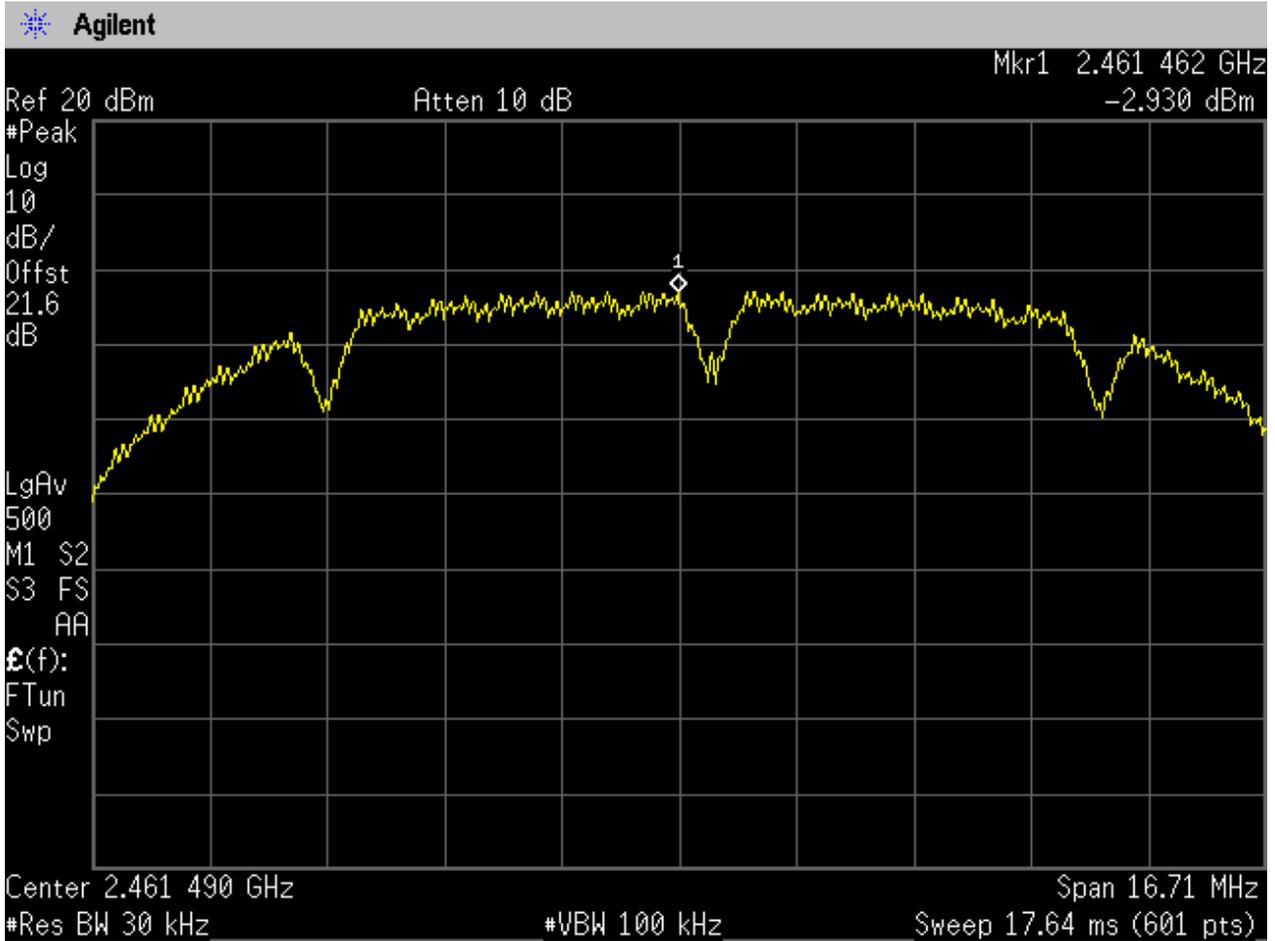
2.1311B1-B-Ant1



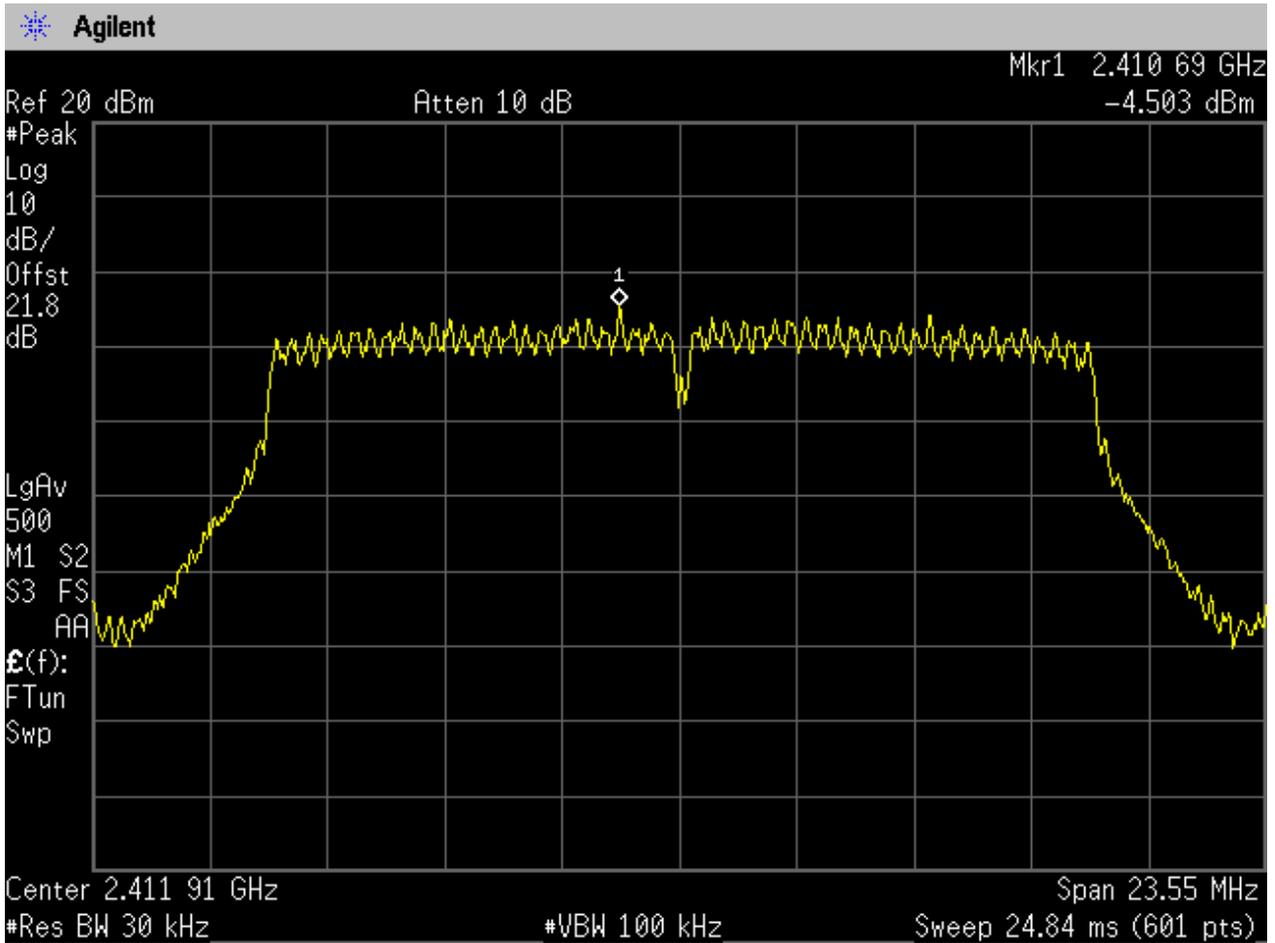
2.1411B1-M-Ant1



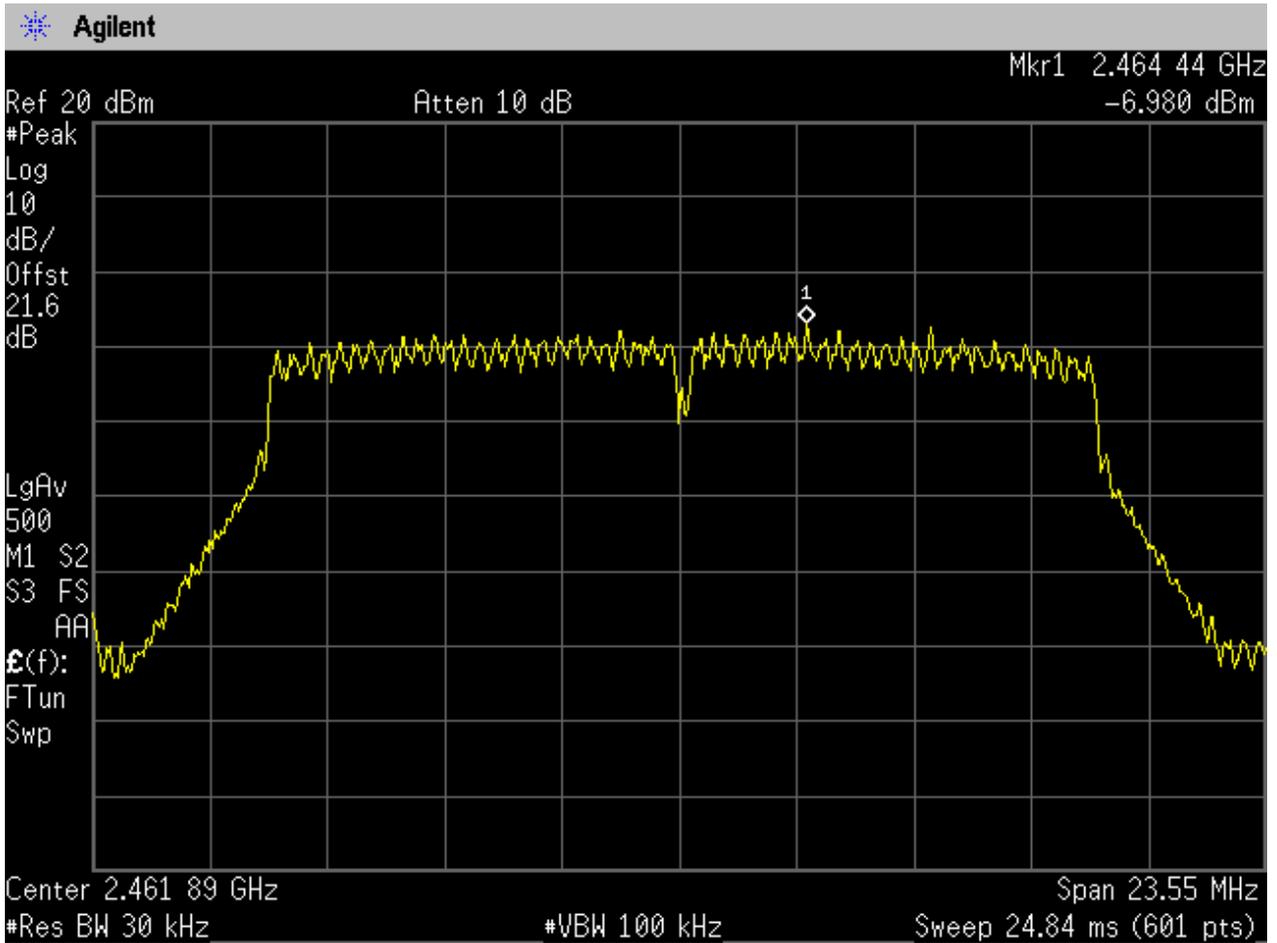
2.1511B1-T-Ant1



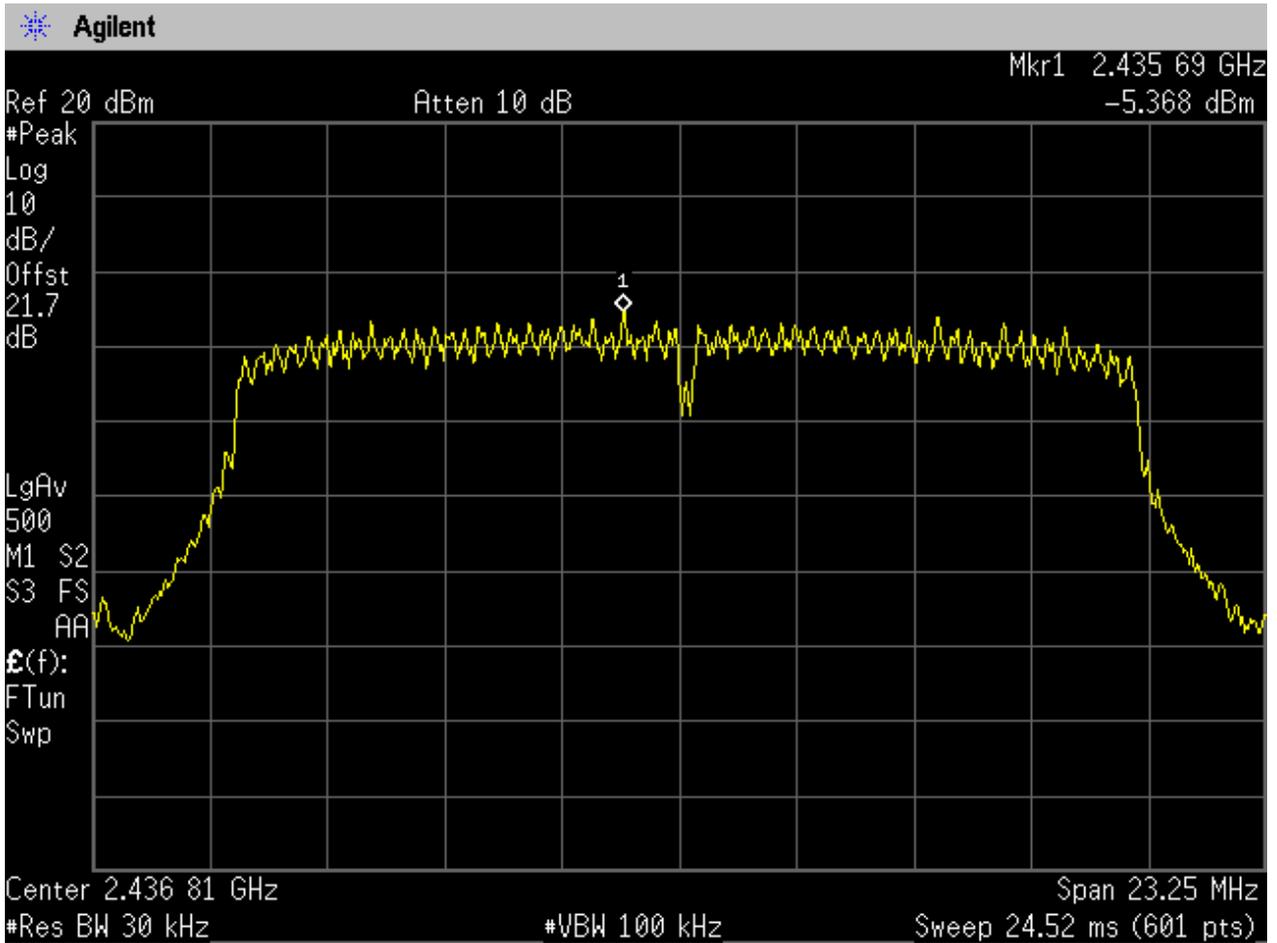
2.1611G6-B-Ant1



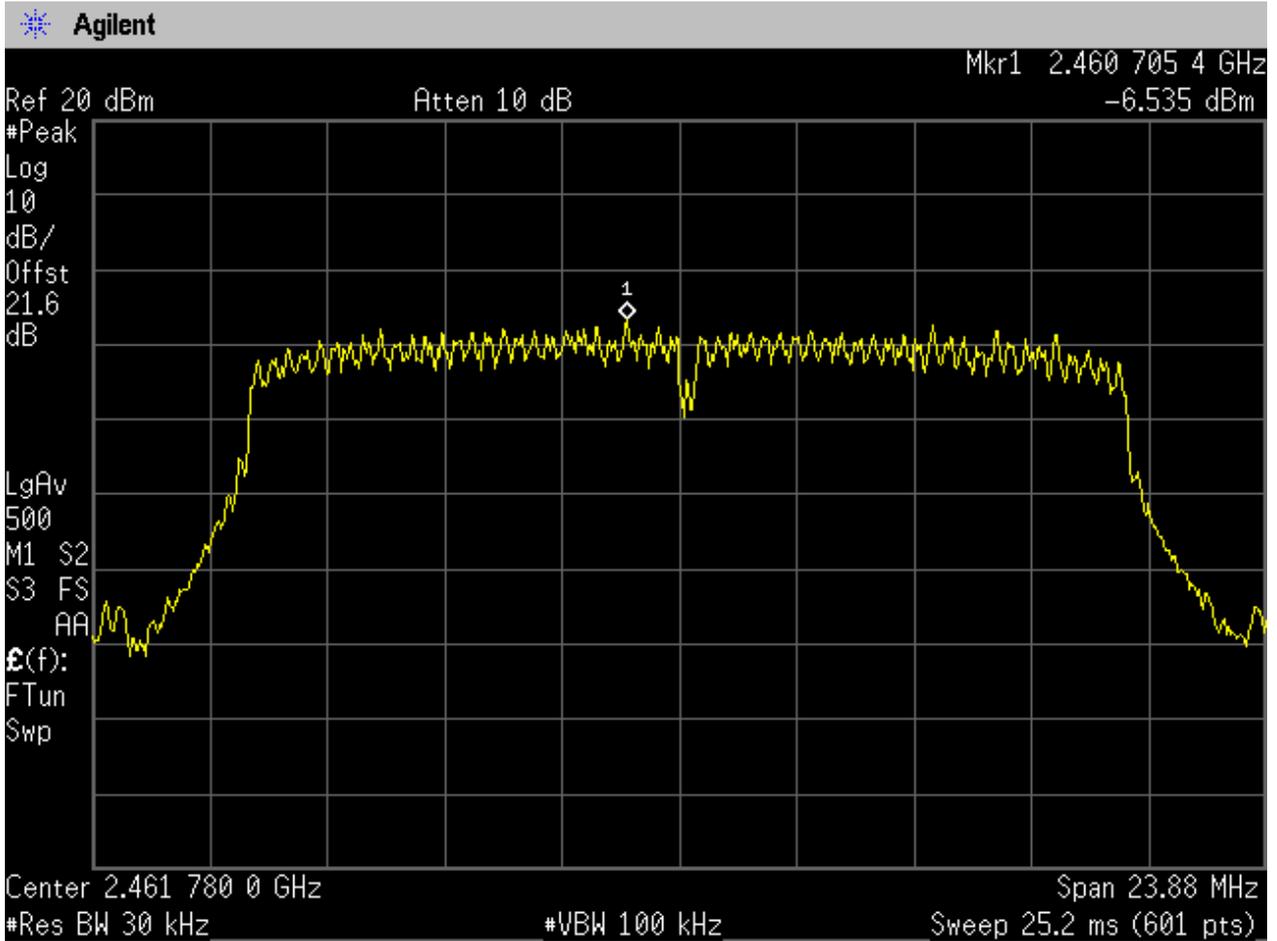
2.1711G6-M-Ant1



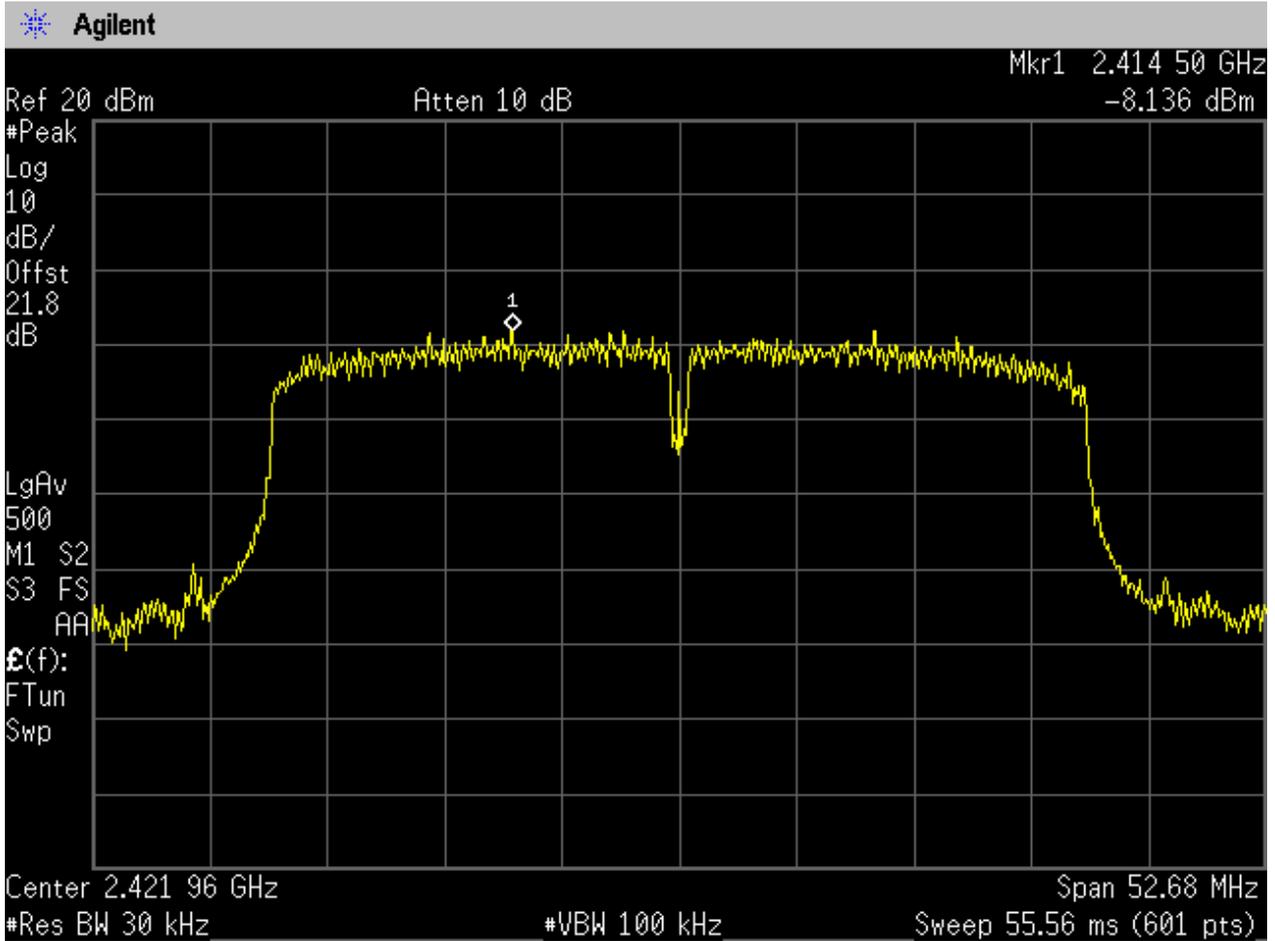
2.1911N0-20B-Ant1



2.2111N0-20T-Ant1



2.2211N0-40B-Ant1



2.2311N0-40M-Ant1



Annex E: Unwanted Emissions into Non-Restricted Frequency Bands

In this Annex, the “Pref”, which is used as the reference level, refers to the peak power level in any 100 kHz bandwidth within the fundamental emission, the “Puw” refers to the maximum emission power in 100 kHz band segments outside of the authorized frequency band.

Considering that the higher ratio of RBW to the span for the frequency ranges below 30 MHz makes the results determination be complicated, a narrower RBW other than 100 kHz is used for these ranges. The measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \times \lg(100 [kHz]/\text{narrower RBW [kHz]})$. As to this Annex, the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain and used as respective results for each chain, due to the relative-limit requirement.

In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] – 20 [dB], see test plots for detailed”.

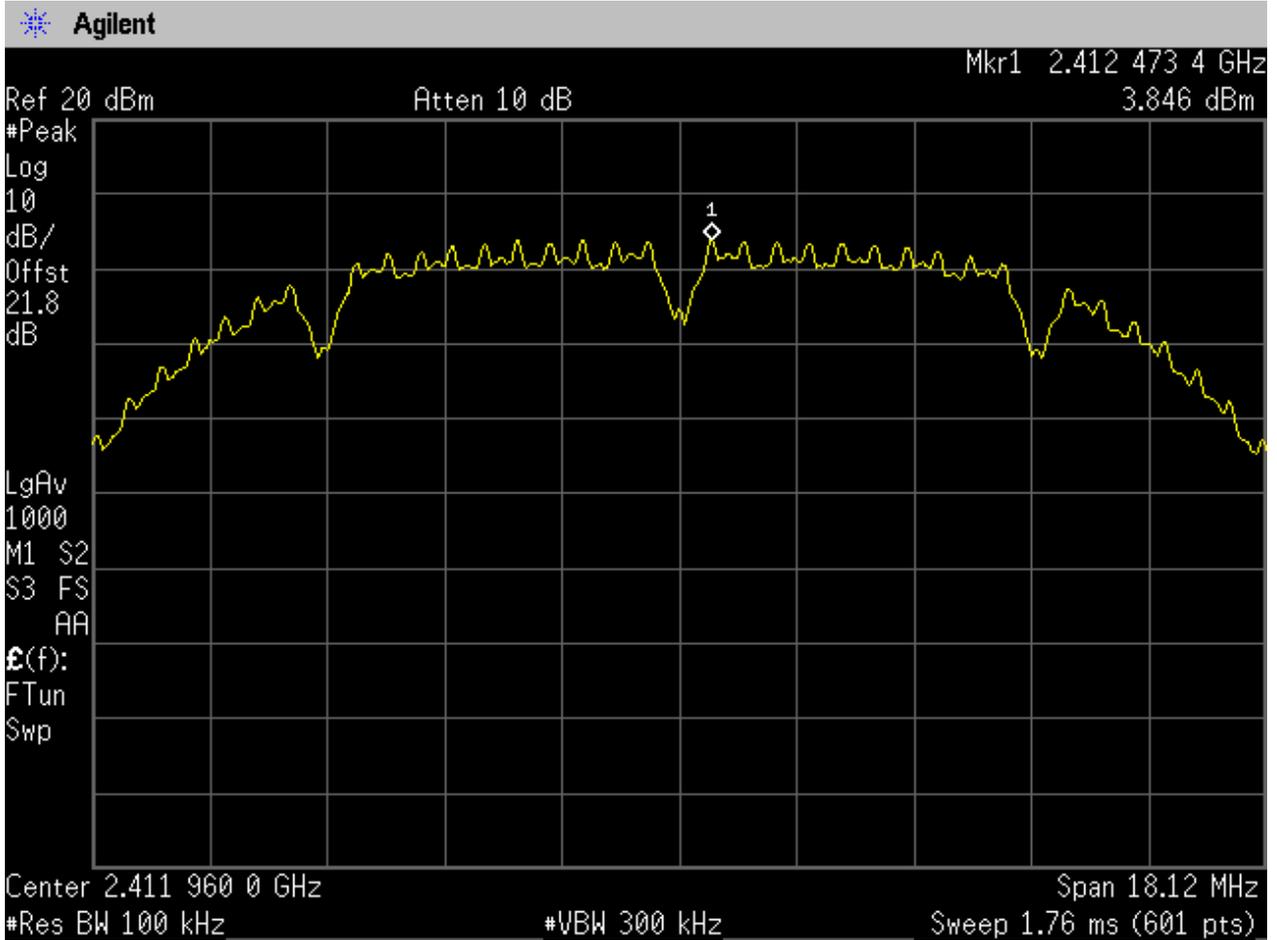
1 Result Table

EUT Conf.	Ant.	Pref [dBm]	Puw [dBm]	Verdict
11B1-B-Ant1	Ant 1	3.85	< Limit	Pass
11B1-M-Ant1	Ant 1	2.93	< Limit	Pass
11B1-T-Ant1	Ant 1	1.76	< Limit	Pass
11G6-B-Ant1	Ant 1	-0.75	< Limit	Pass
11G6-M-Ant1	Ant 1	-1.15	< Limit	Pass
11G6-T-Ant1	Ant 1	-2.32	< Limit	Pass
11N0-20B-Ant1	Ant 1	-0.4	< Limit	Pass
11N0-20M-Ant1	Ant 1	-0.92	< Limit	Pass
11N0-20T-Ant1	Ant 1	-2.13	< Limit	Pass
11N0-40B-Ant1	Ant 1	-3.03	< Limit	Pass
11N0-40M-Ant1	Ant 1	-3.46	< Limit	Pass
11N0-40T-Ant1	Ant 1	-3.84	< Limit	Pass

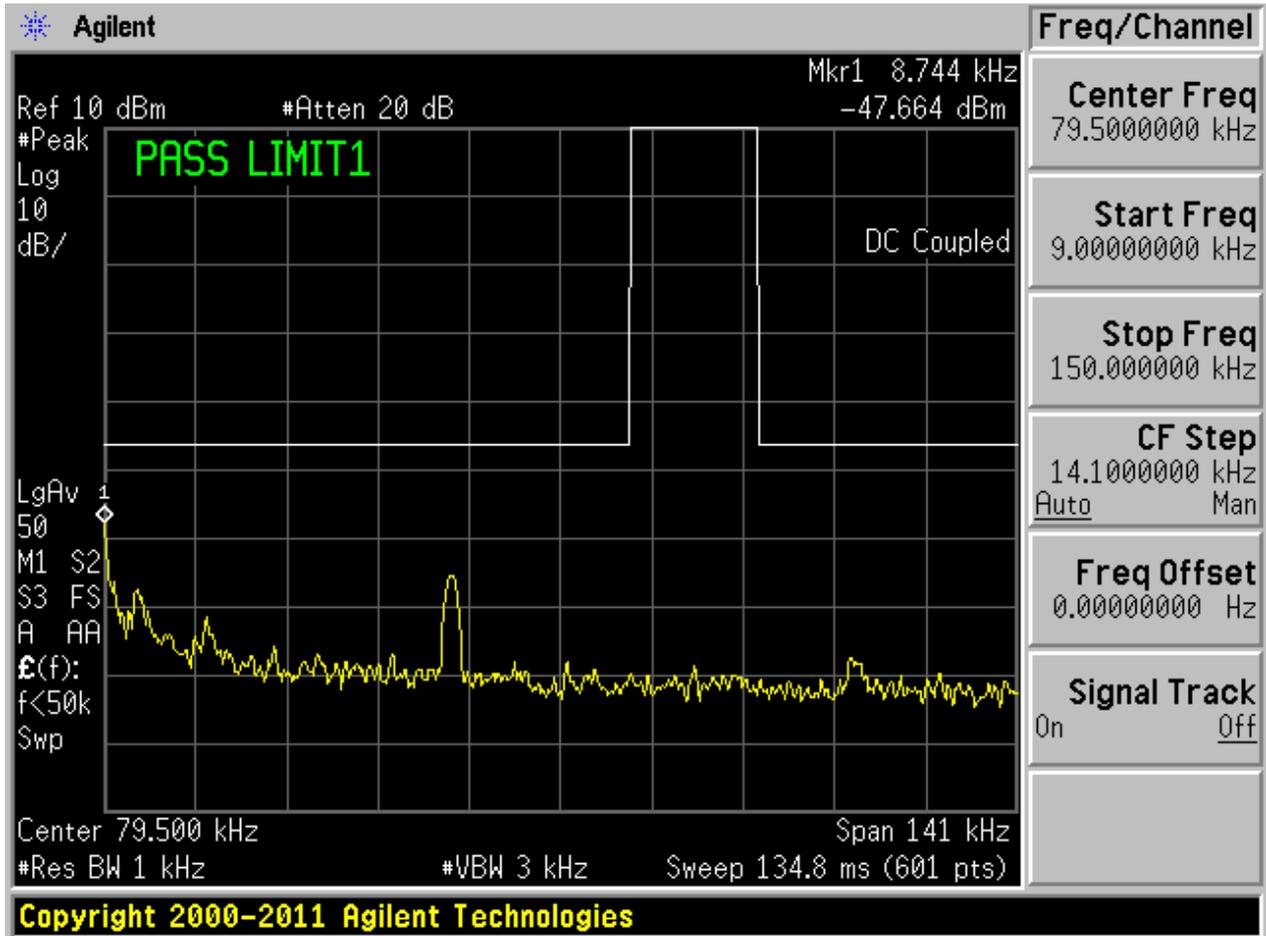
2 Test Plot

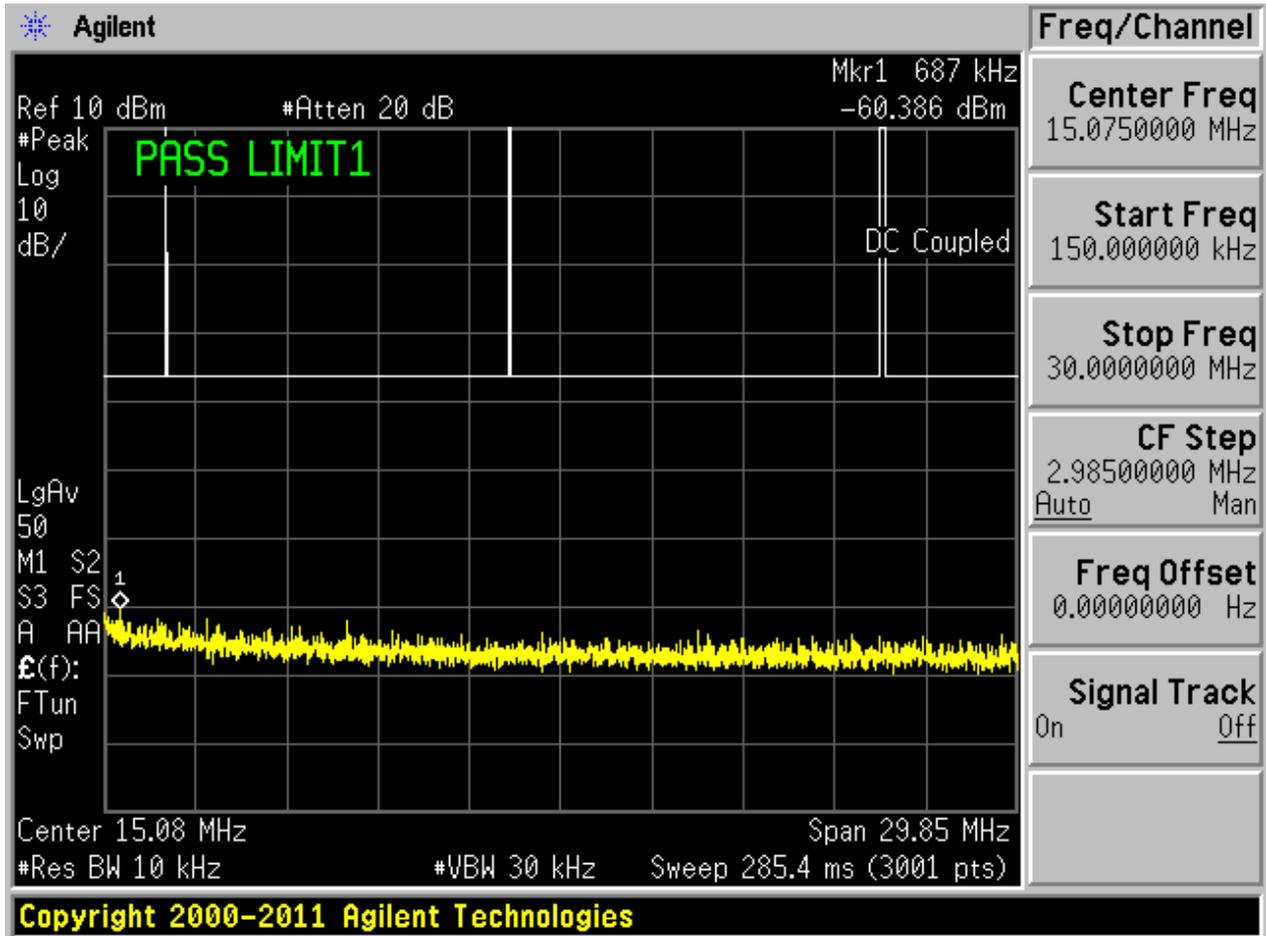
2.1 11B1-B-Ant1

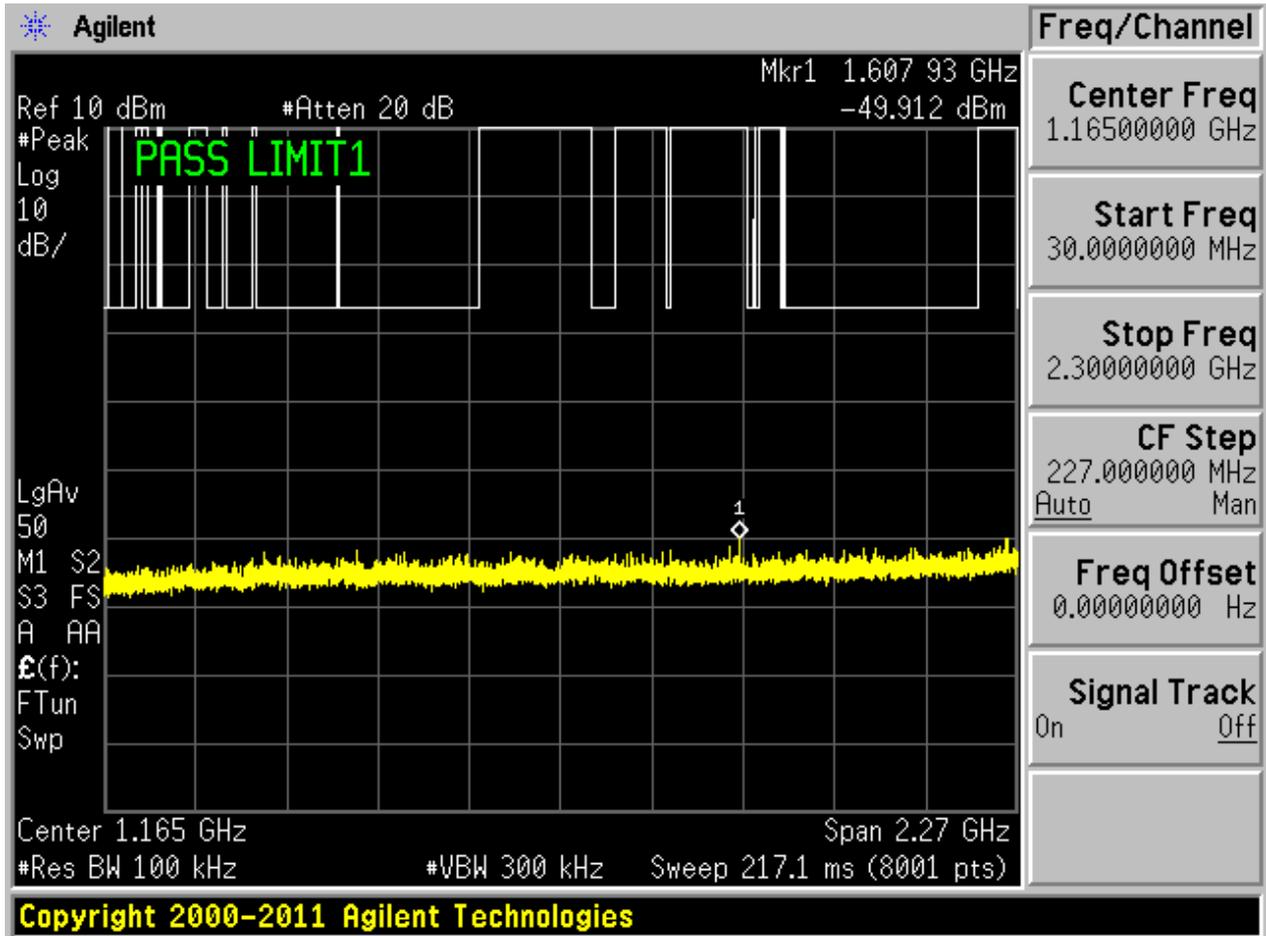
2.1.1 Pref

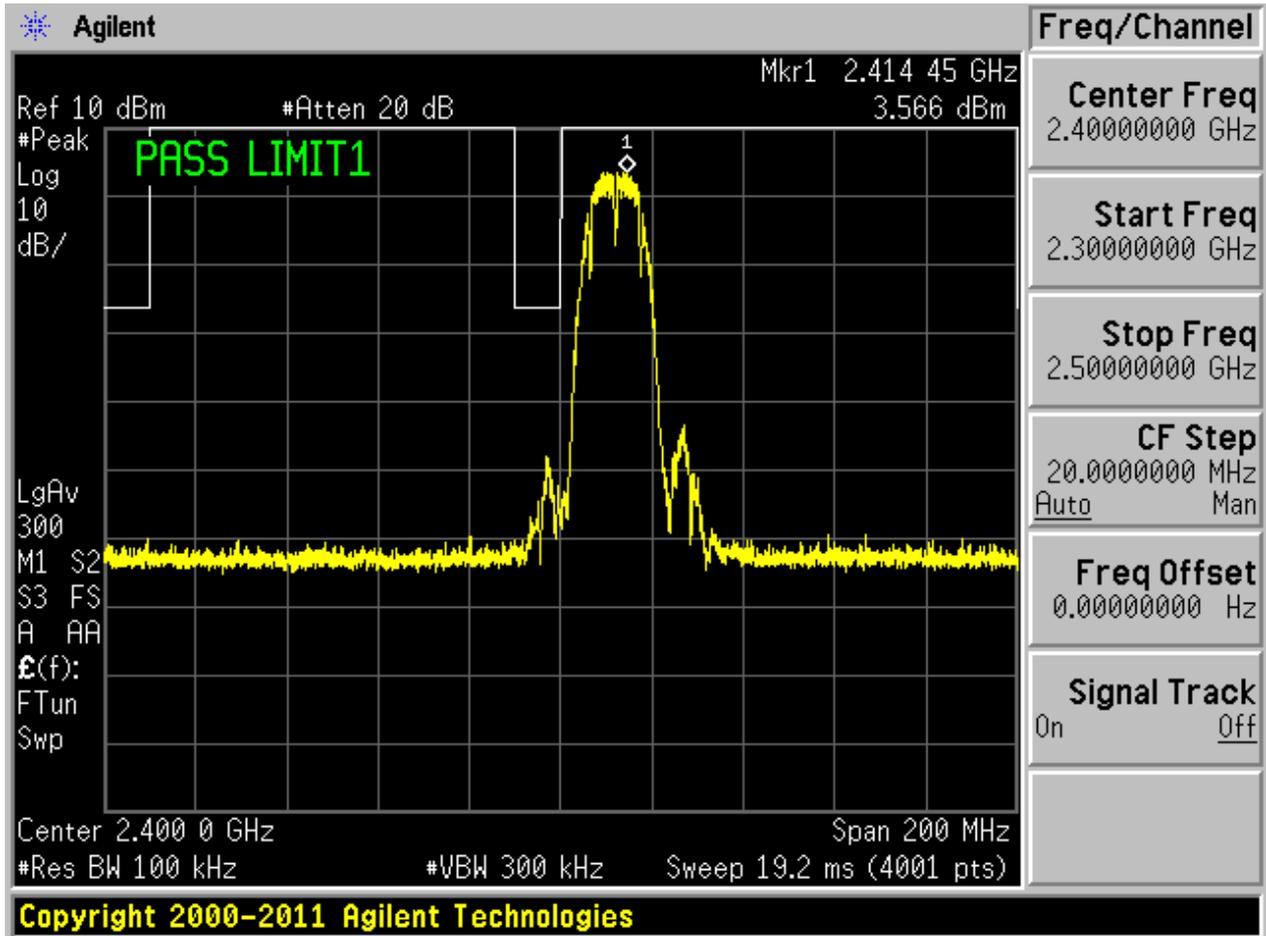


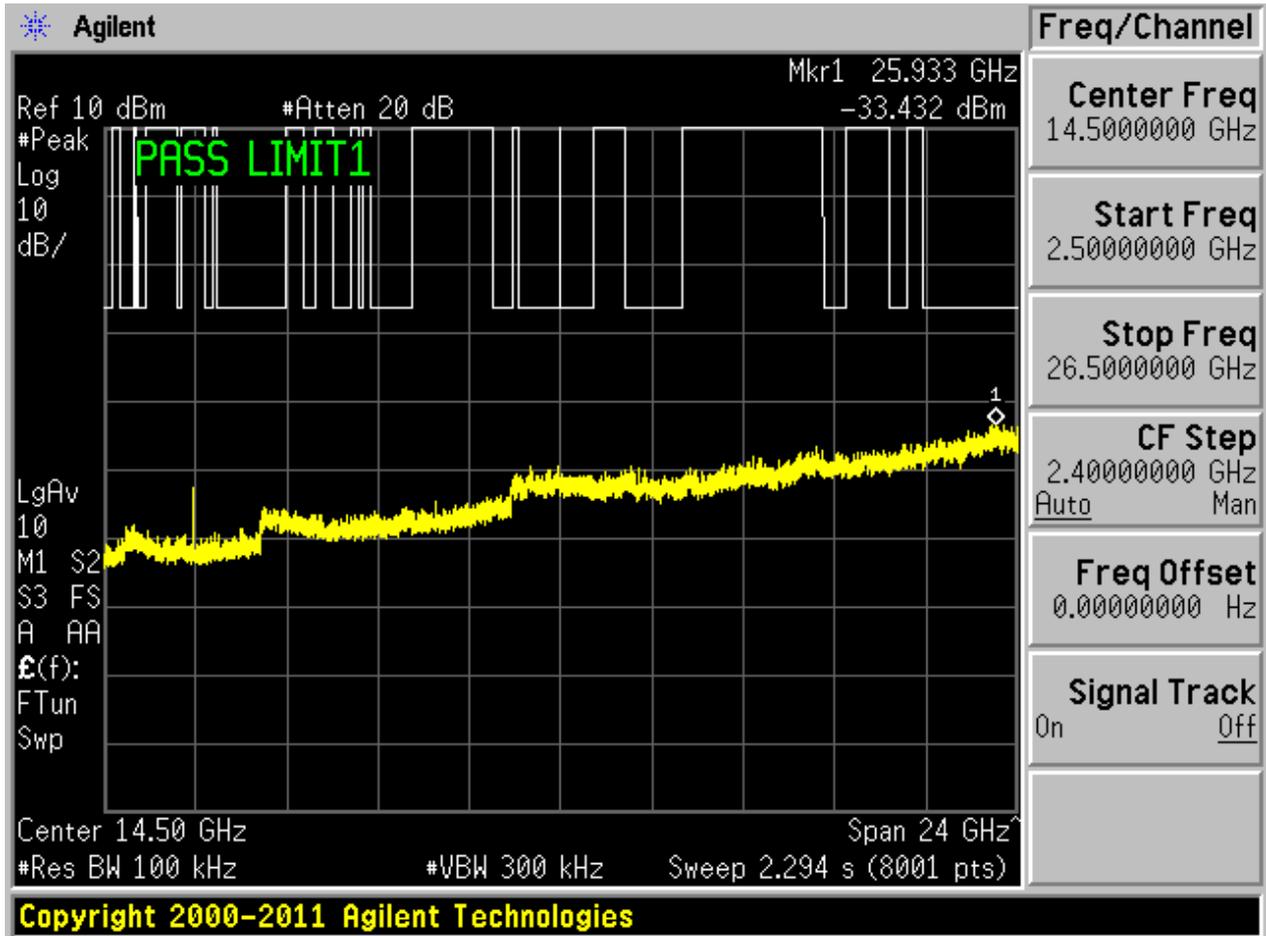
2.1.2 Puw





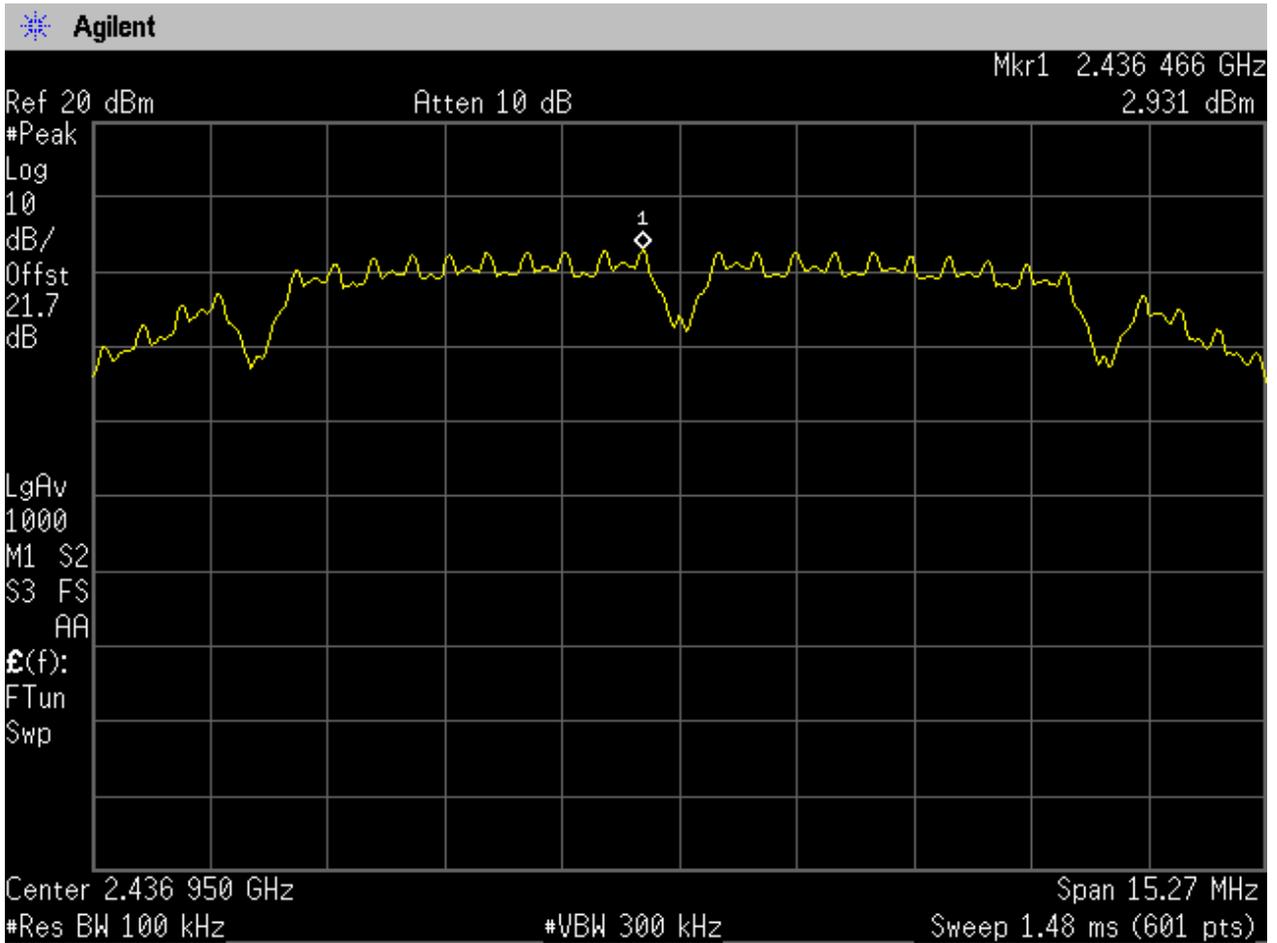




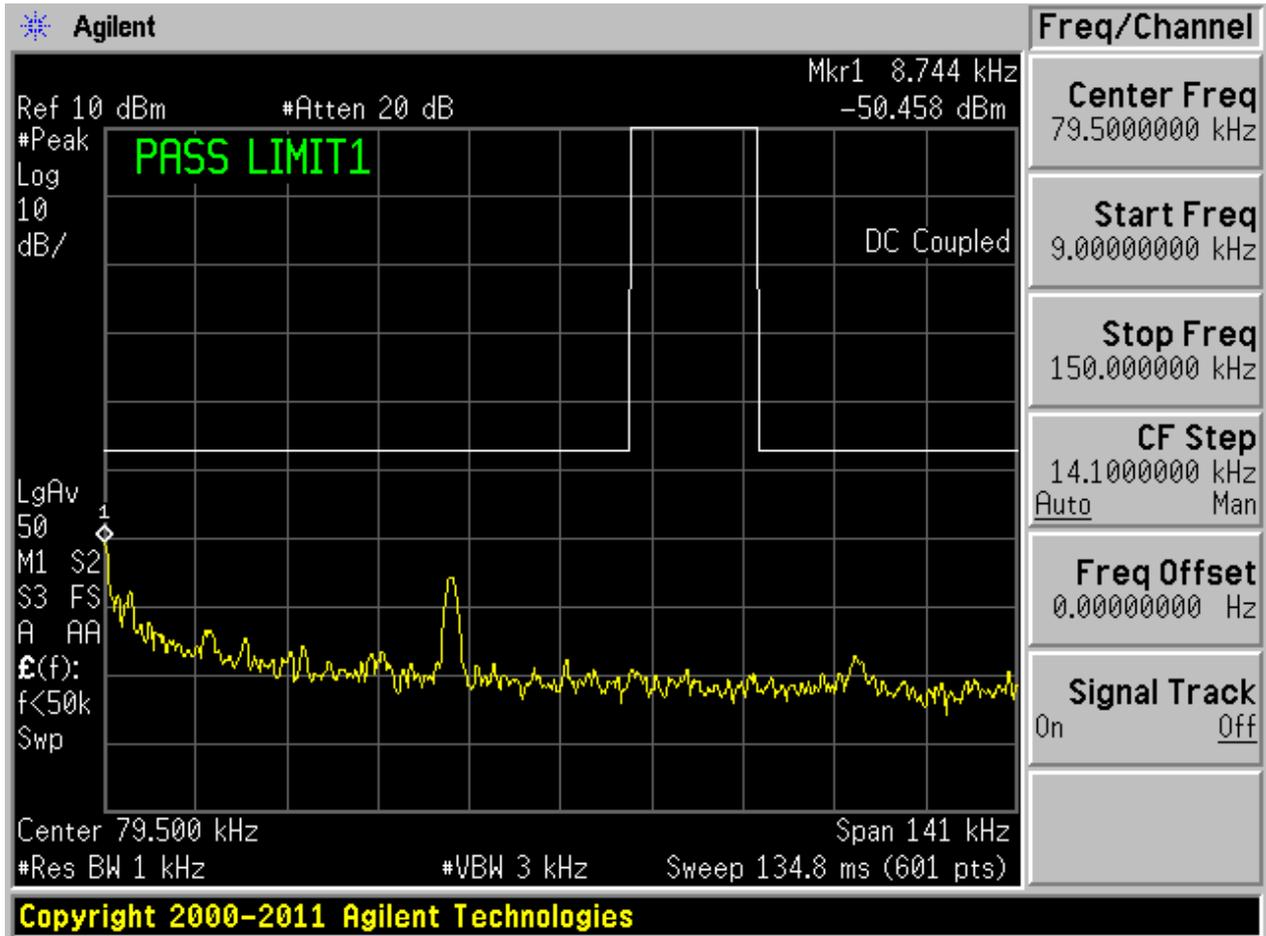


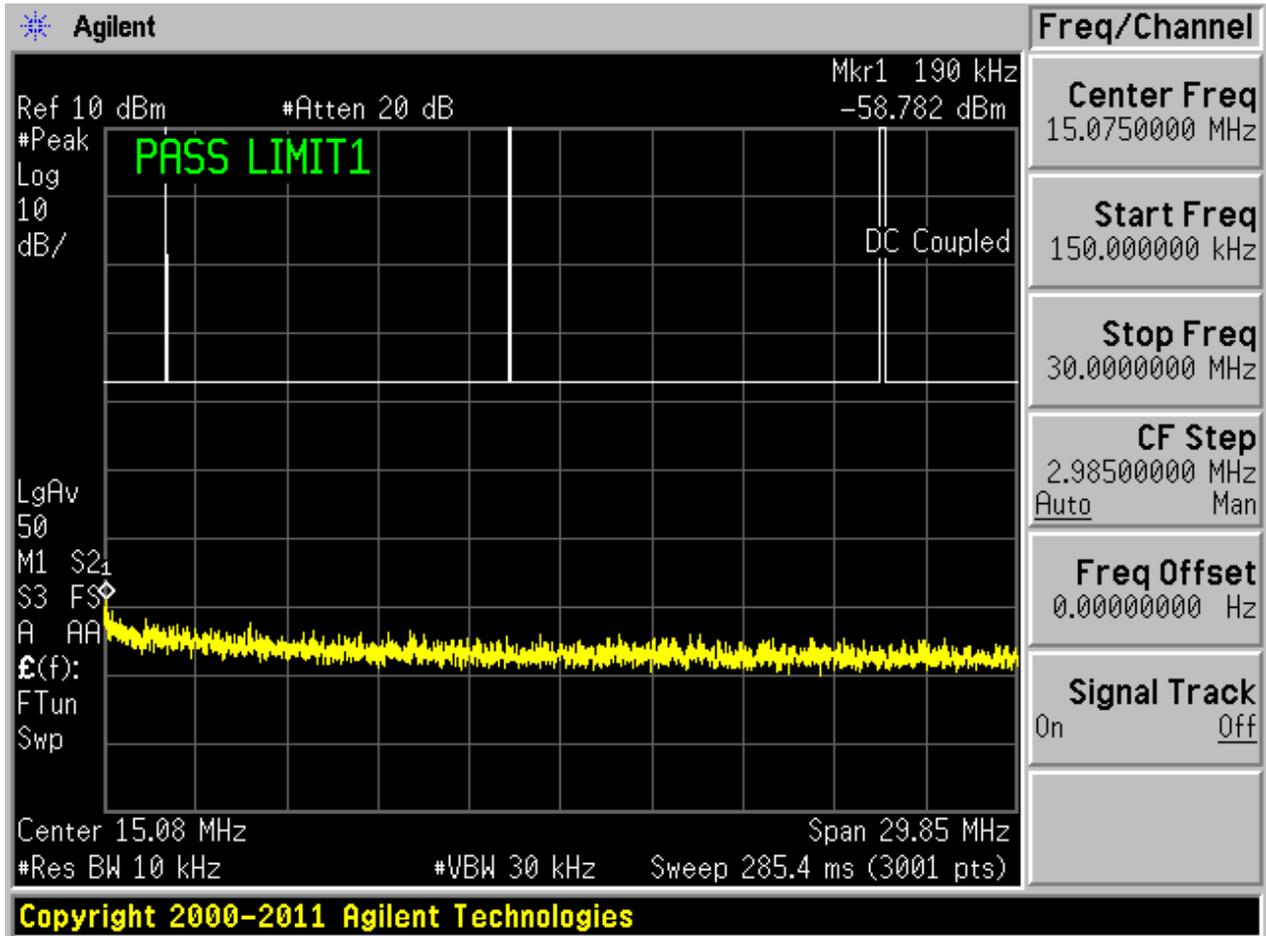
2.2 11B1-M-Ant1

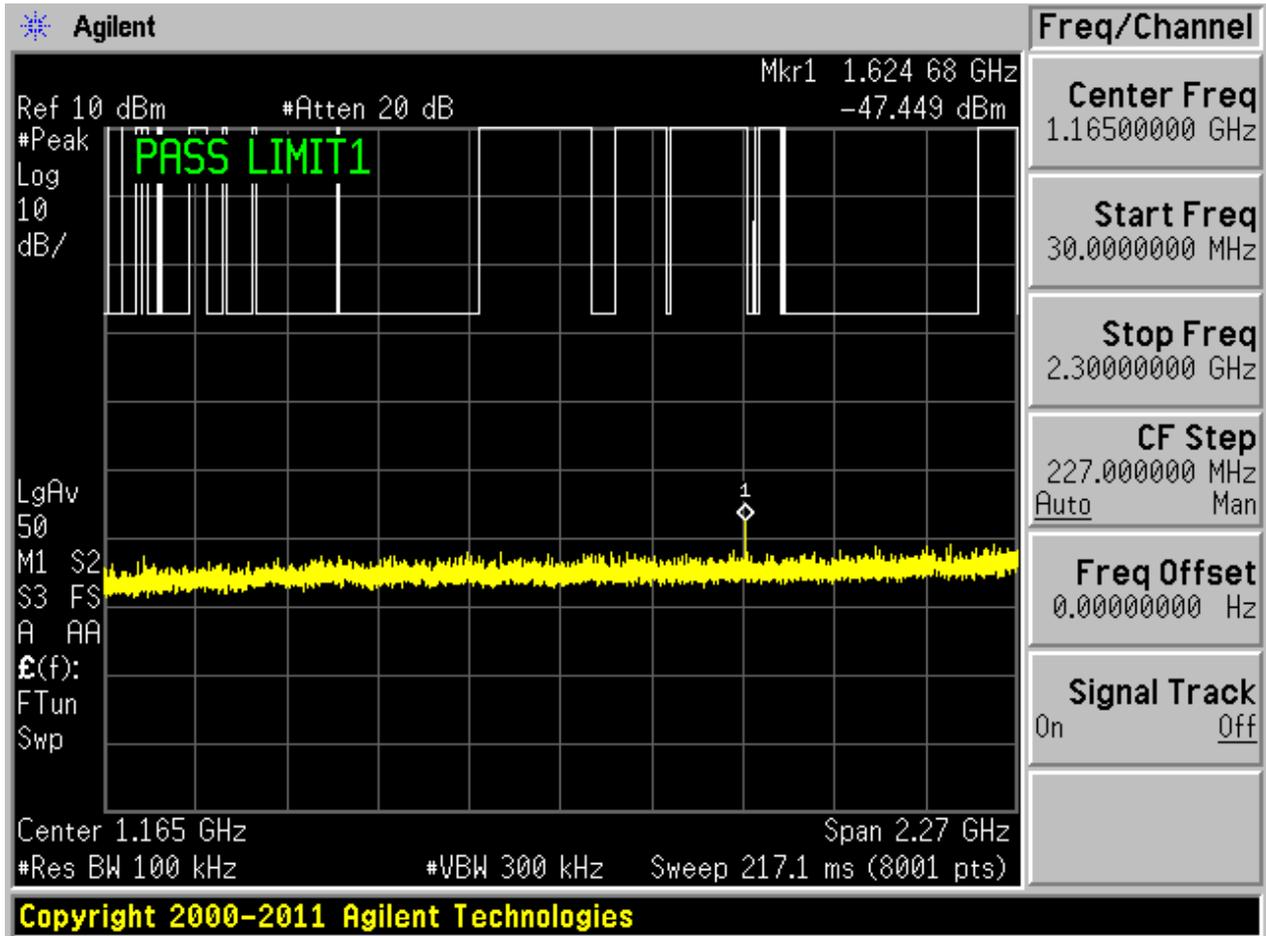
2.2.1 Pref

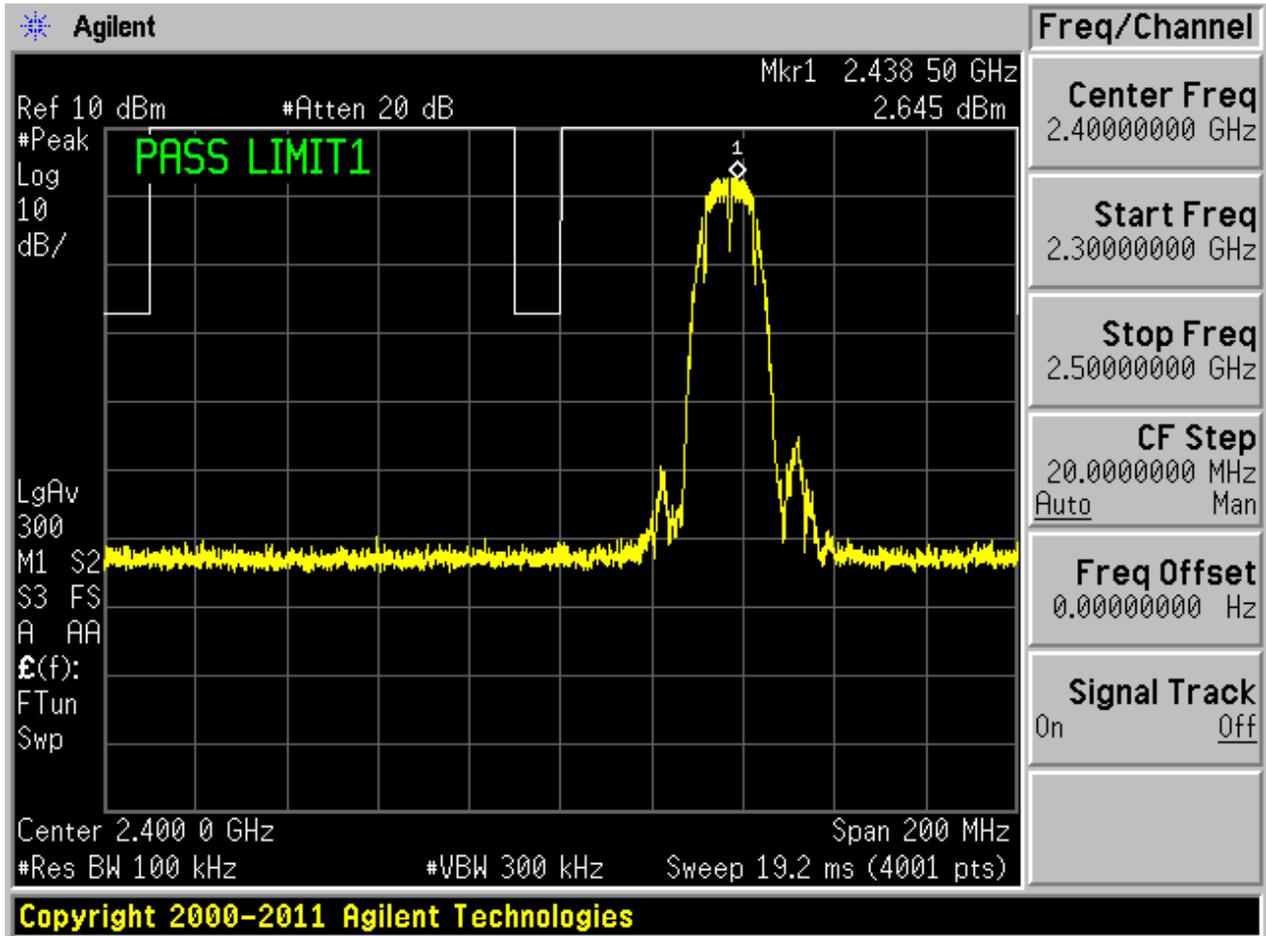


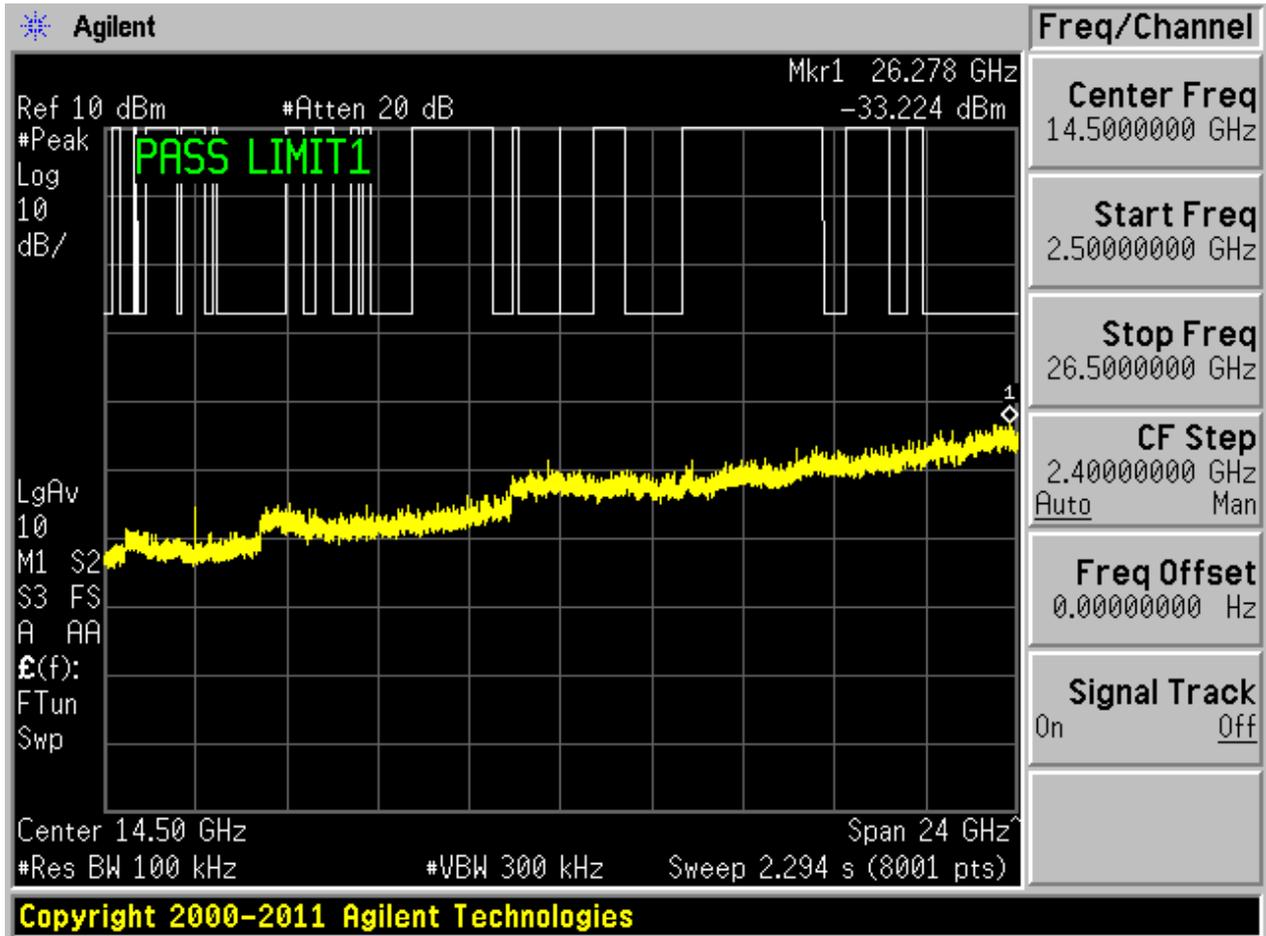
2.2.2 Puw





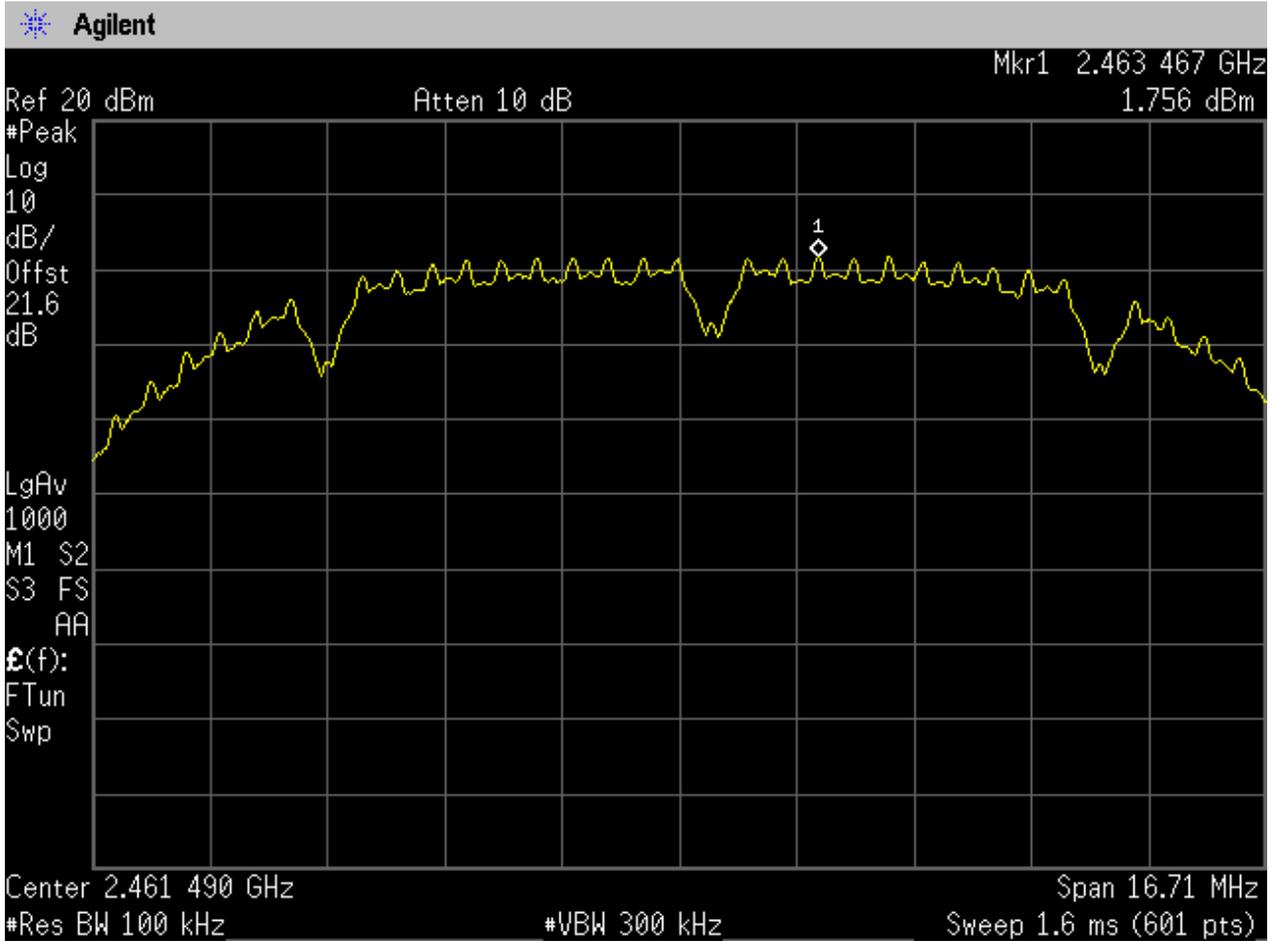




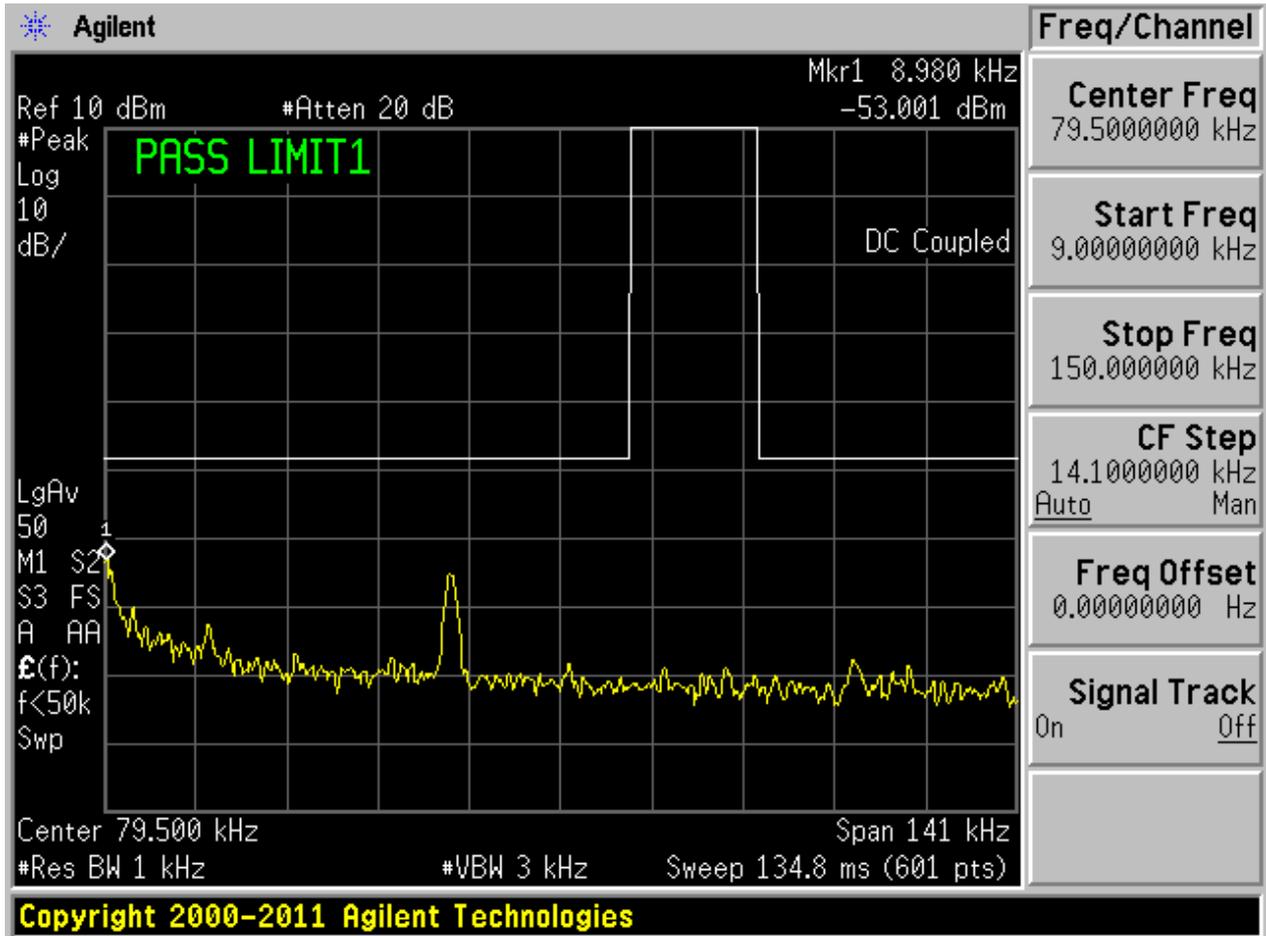


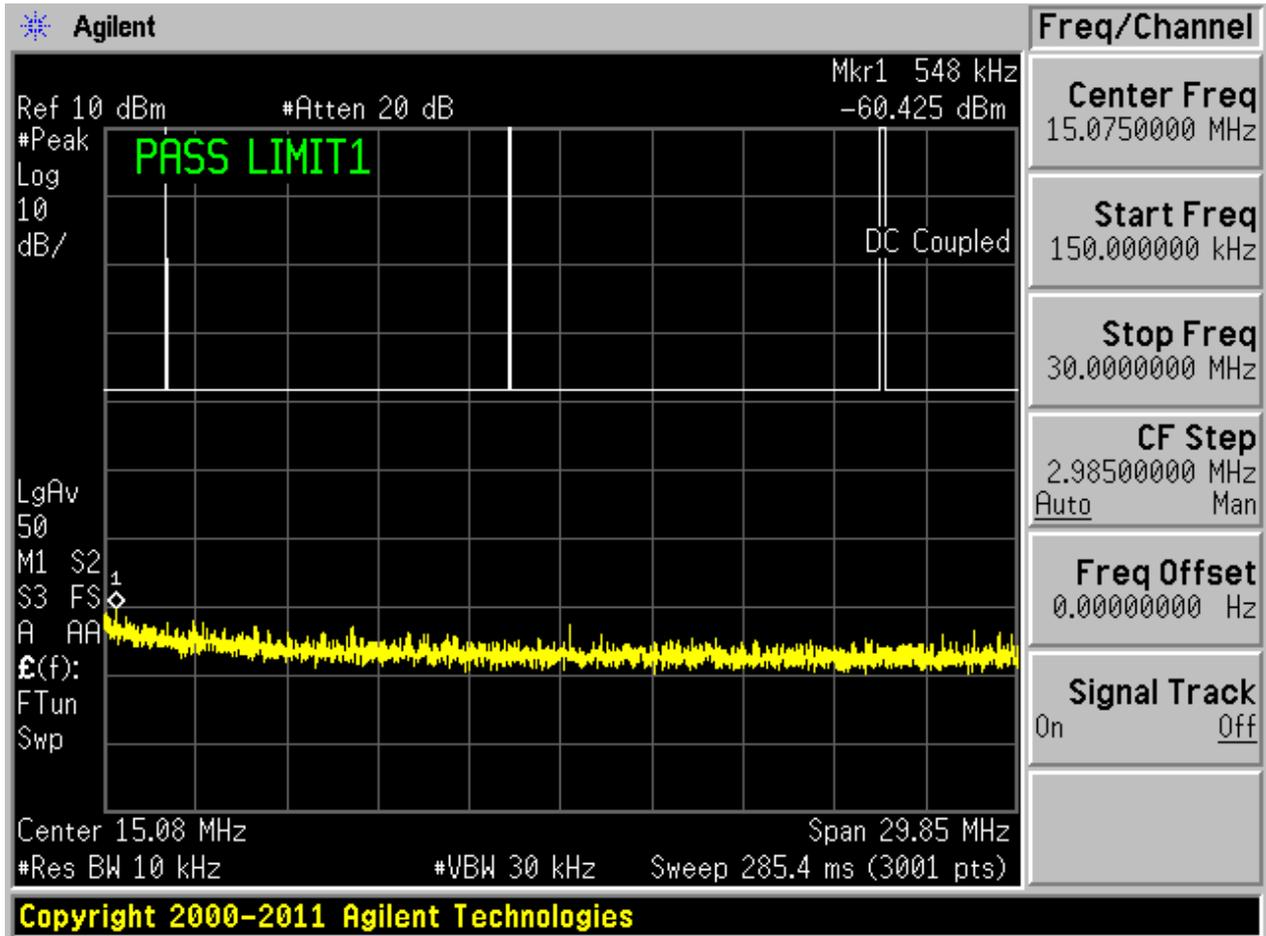
2.3 11B1-T-Ant1

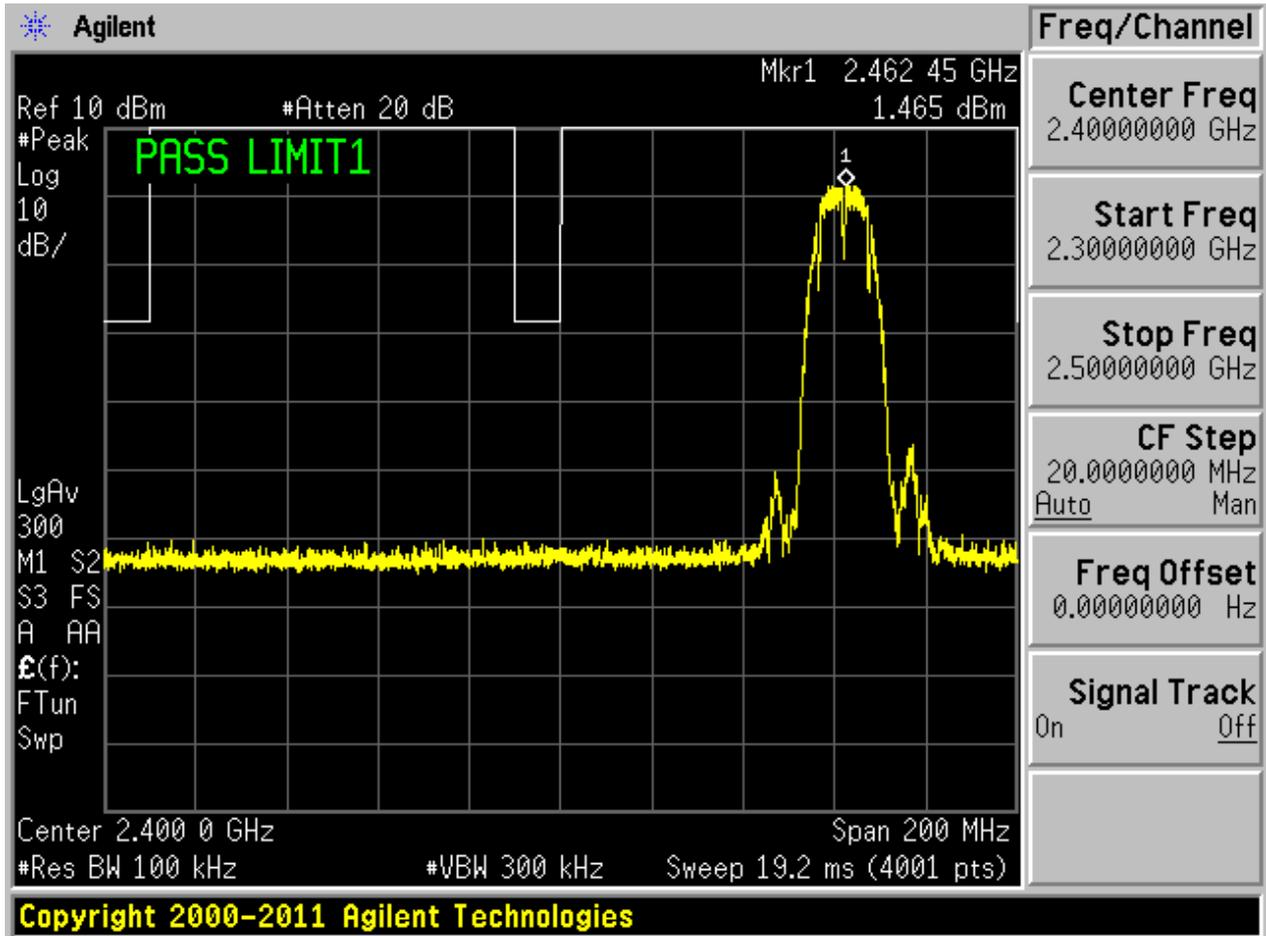
2.3.1 Pref

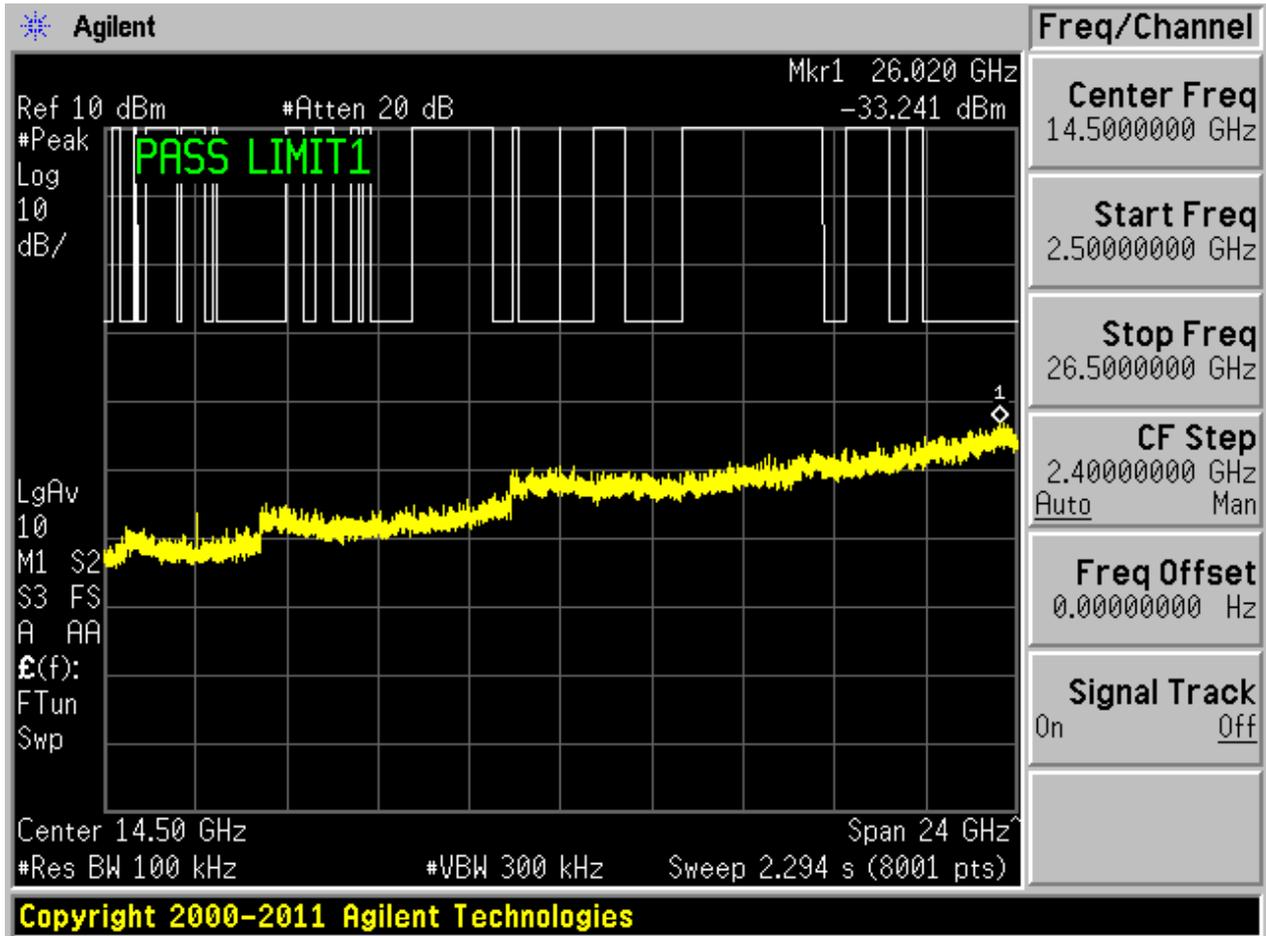


2.3.2 Puw



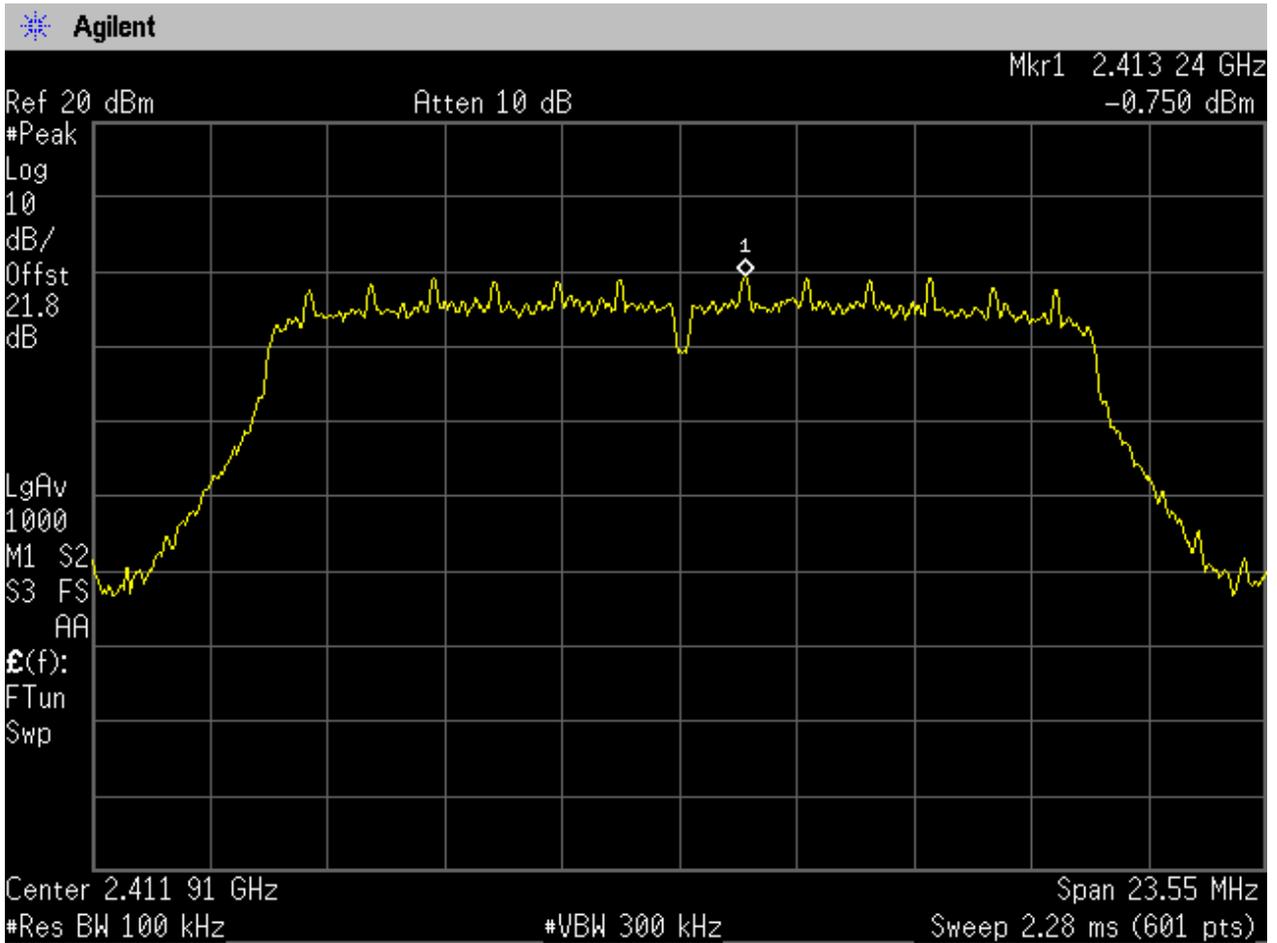




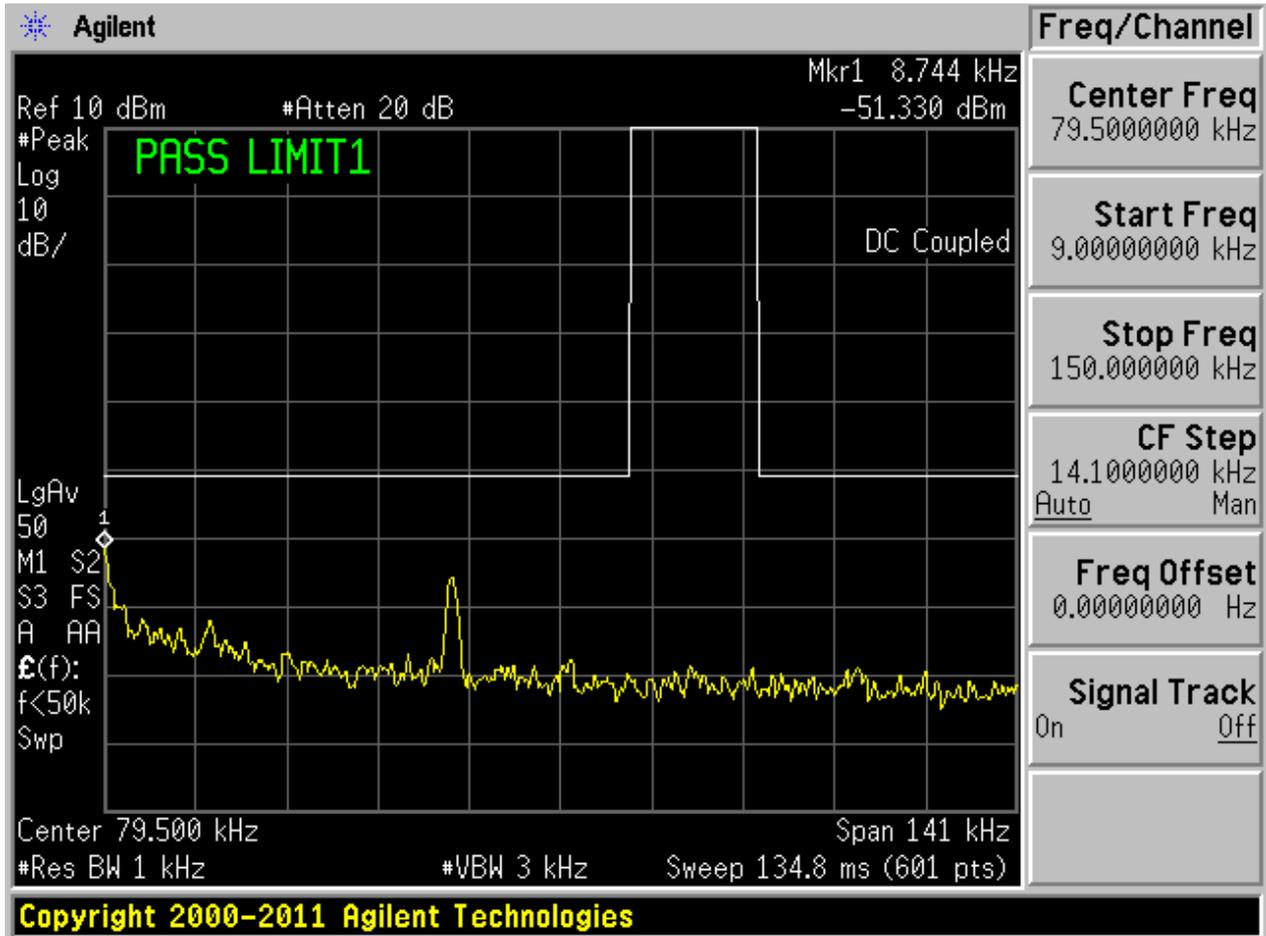


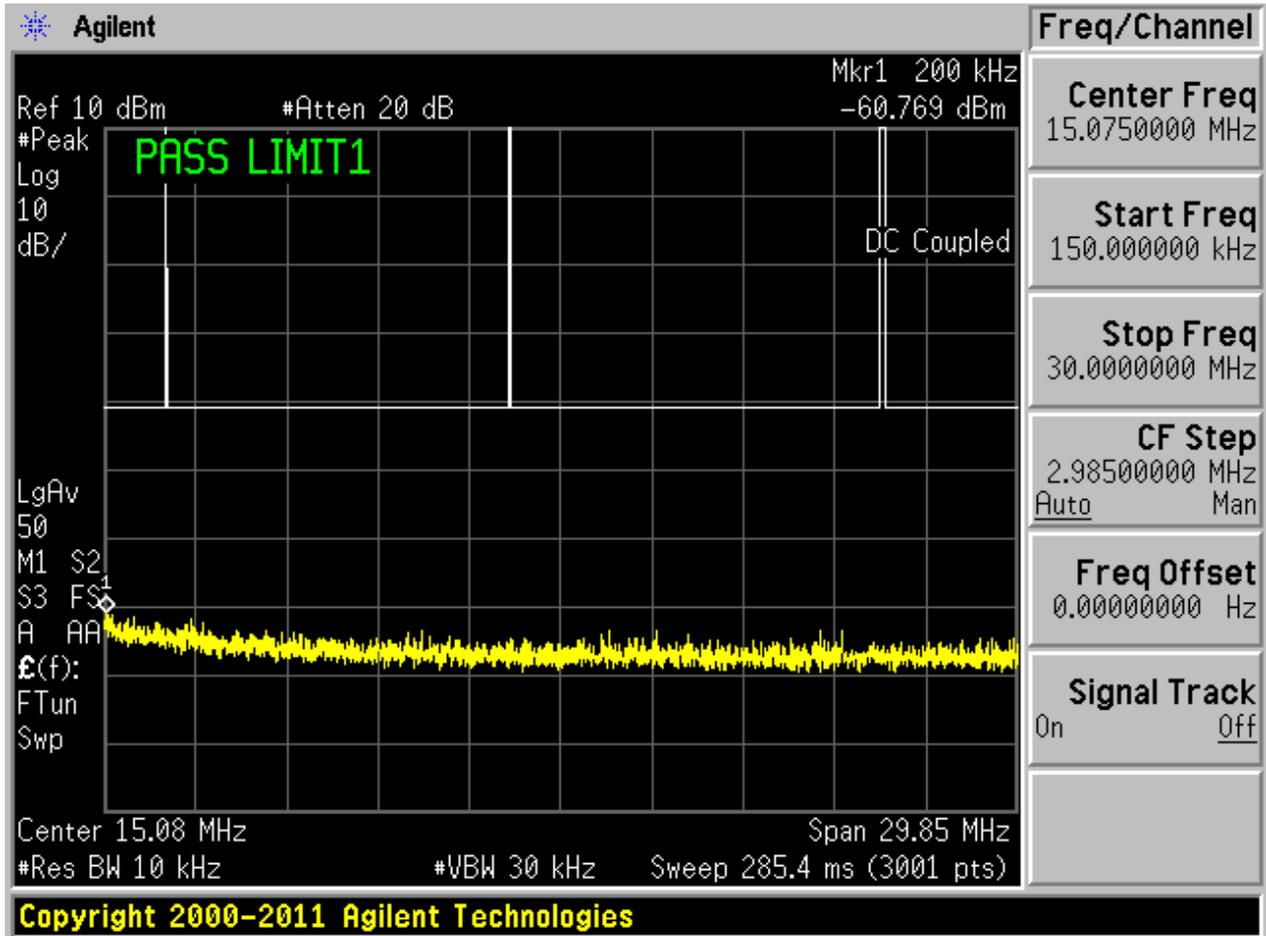
2.4 11G6-B-Ant1

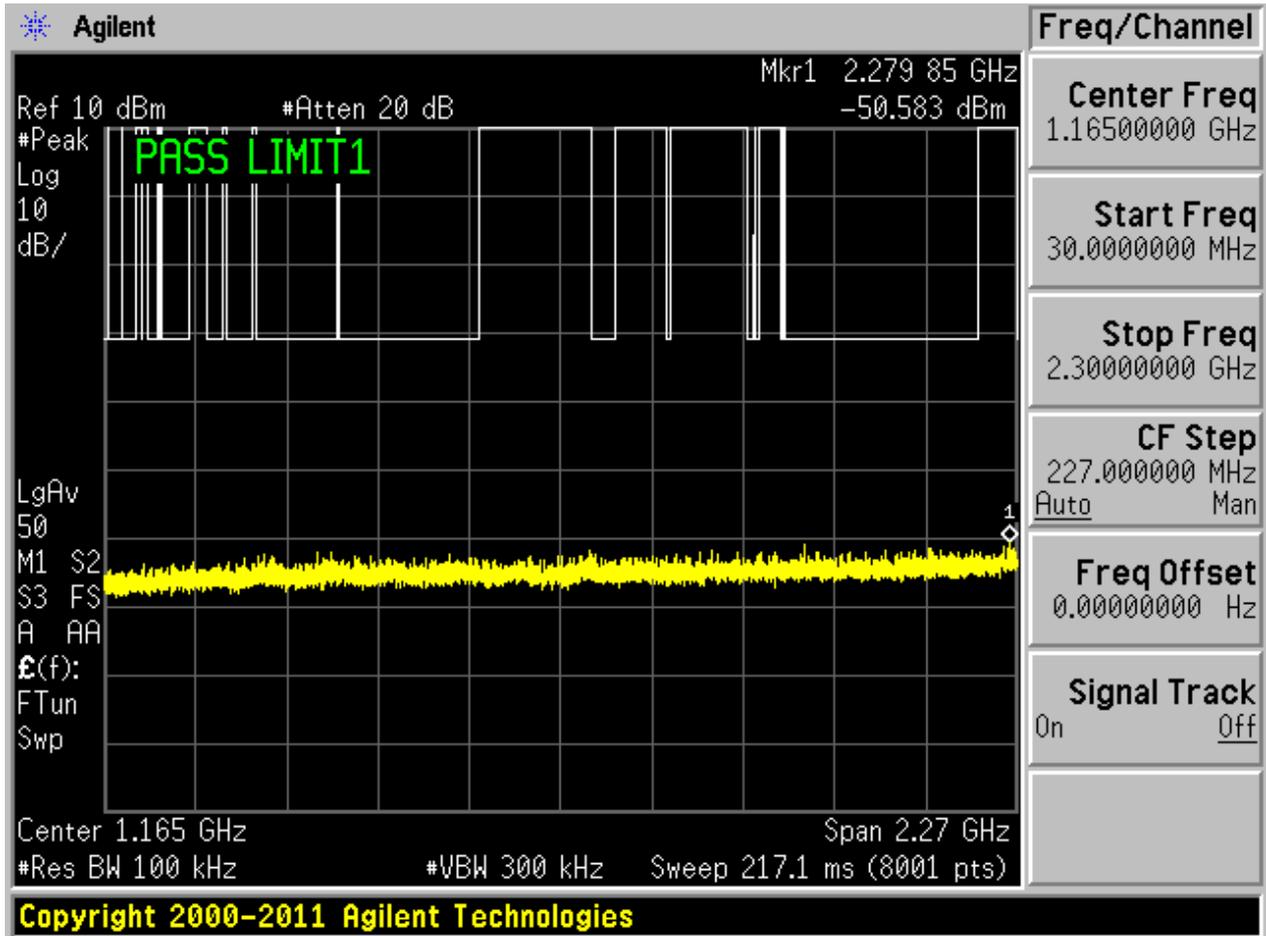
2.4.1 Pref

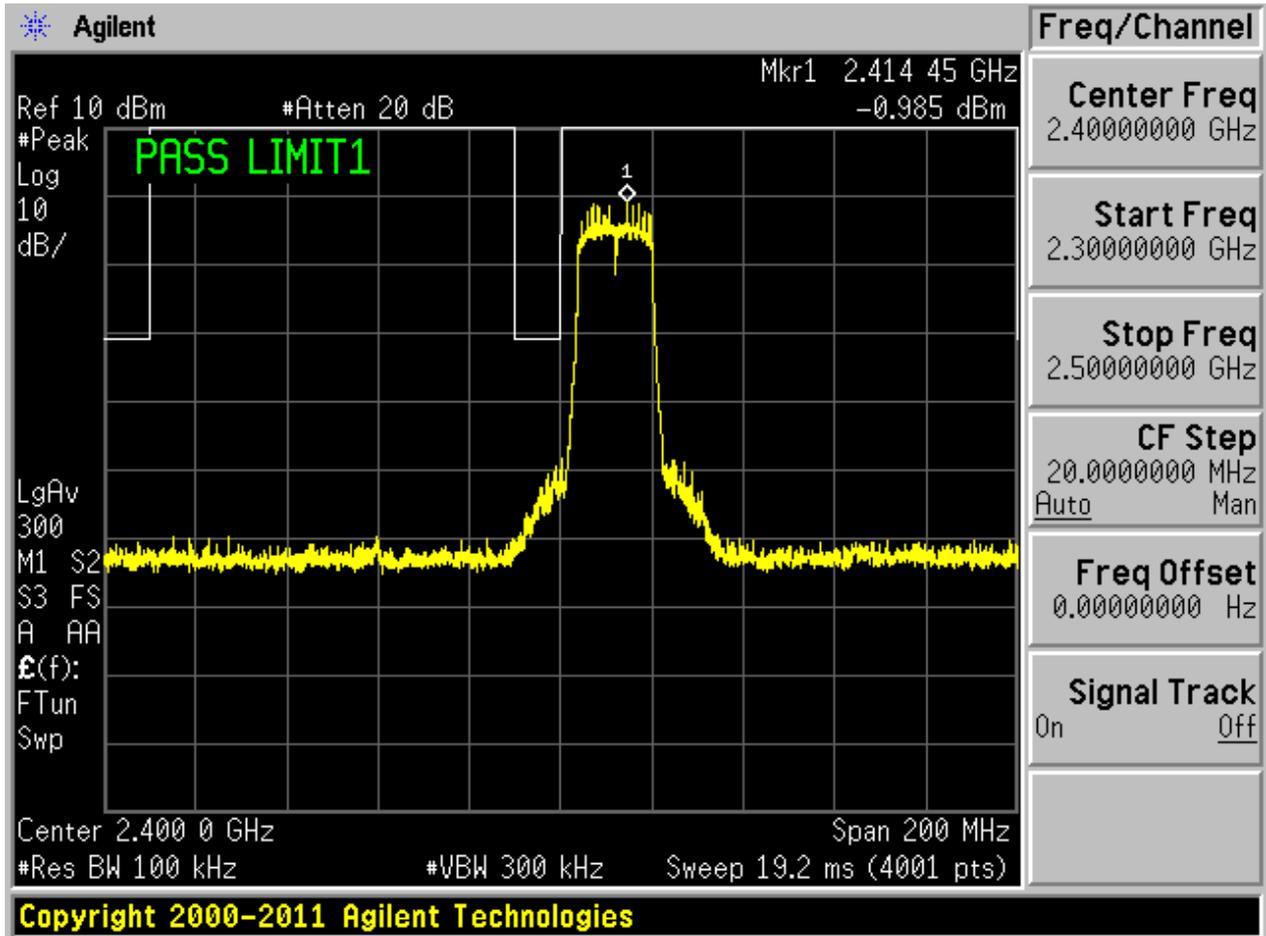


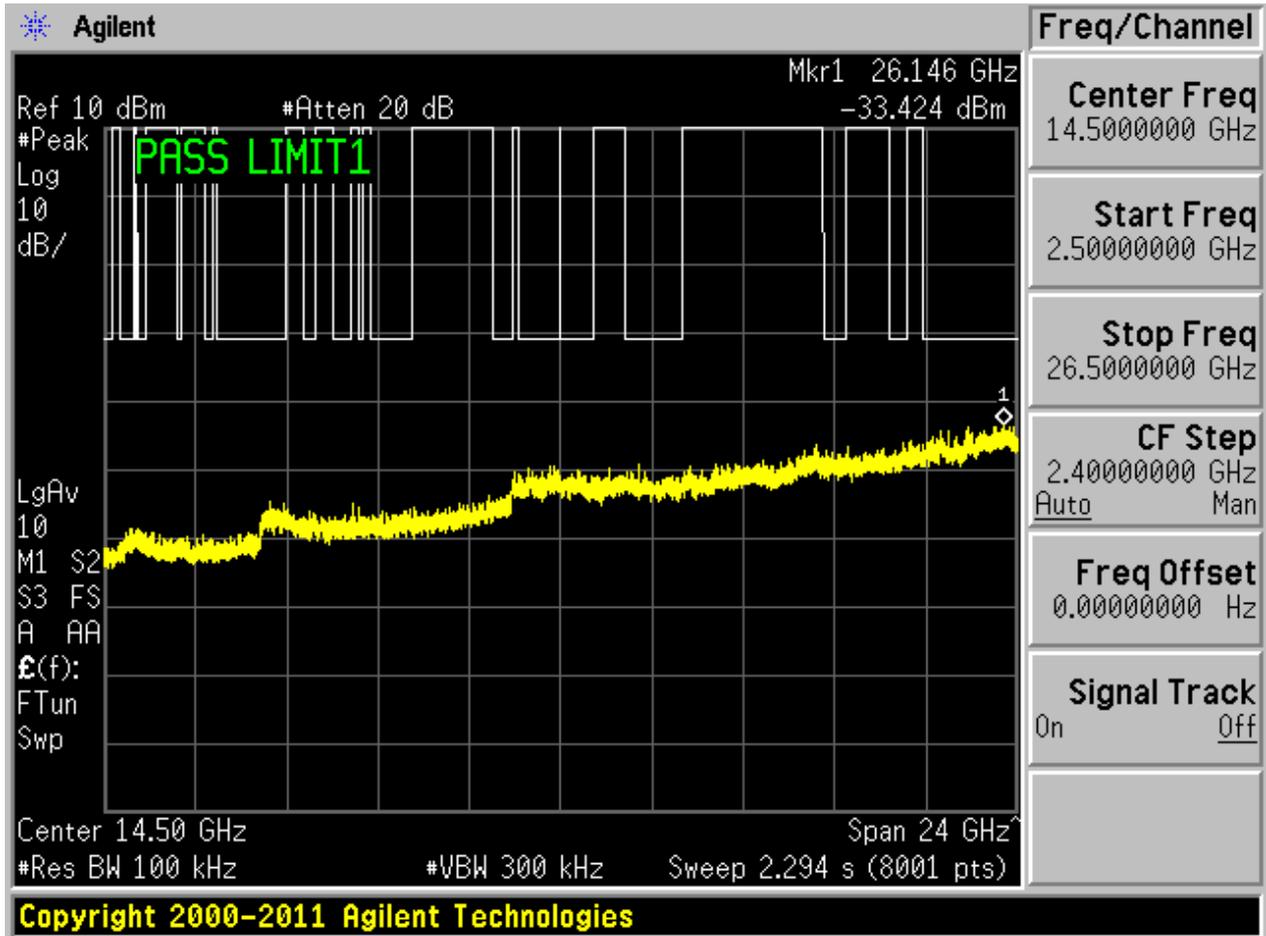
2.4.2 Puw





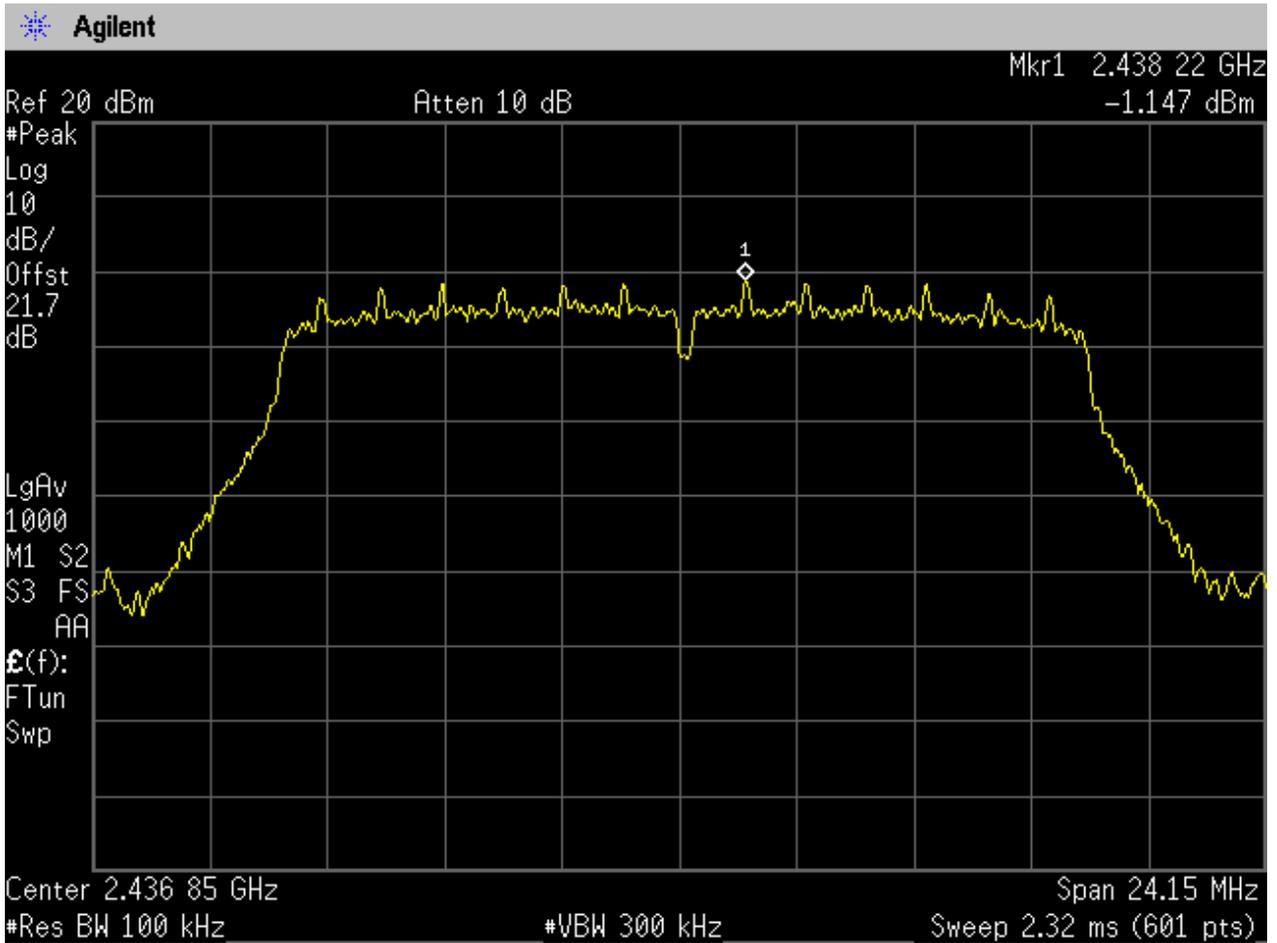




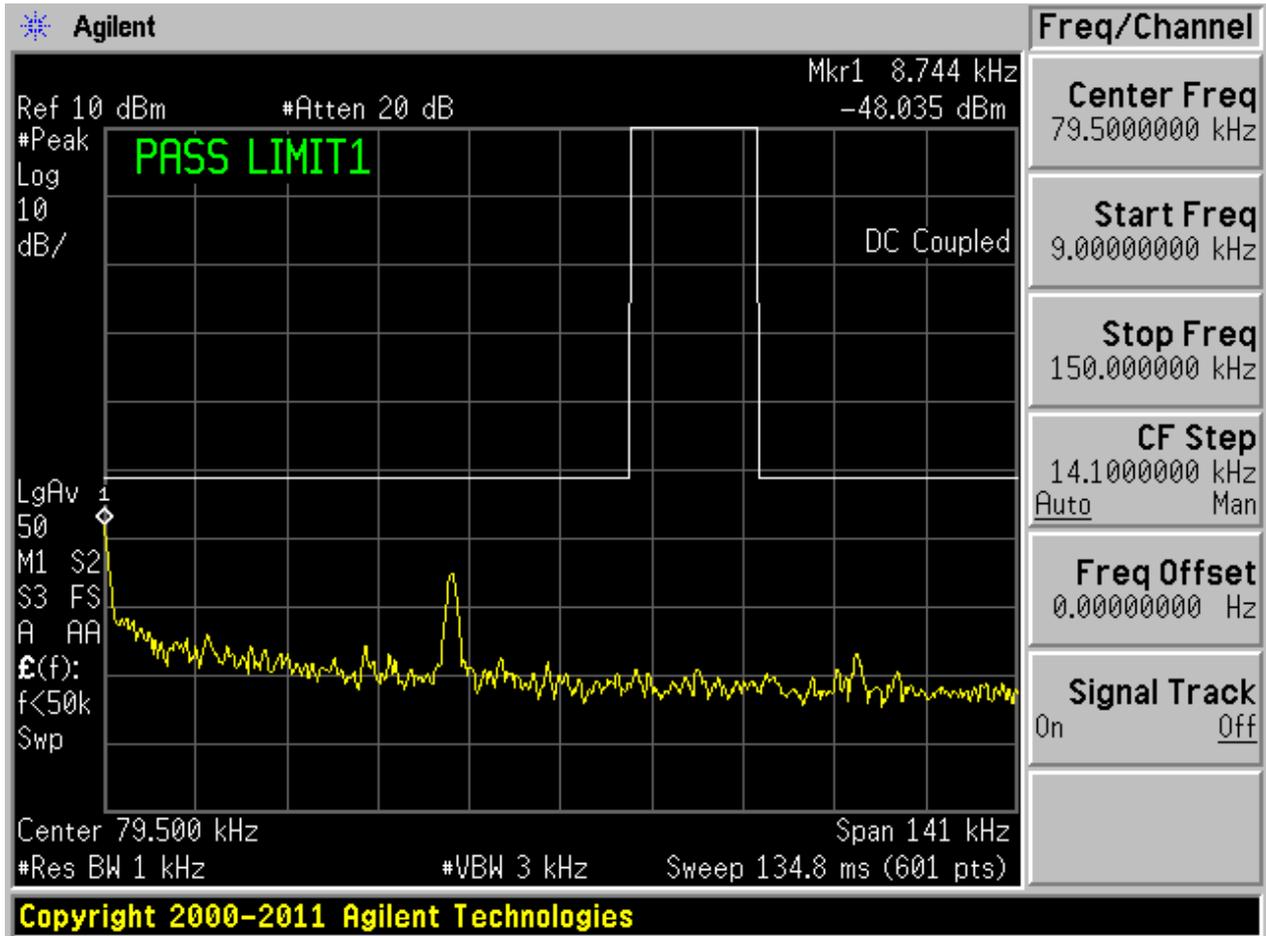


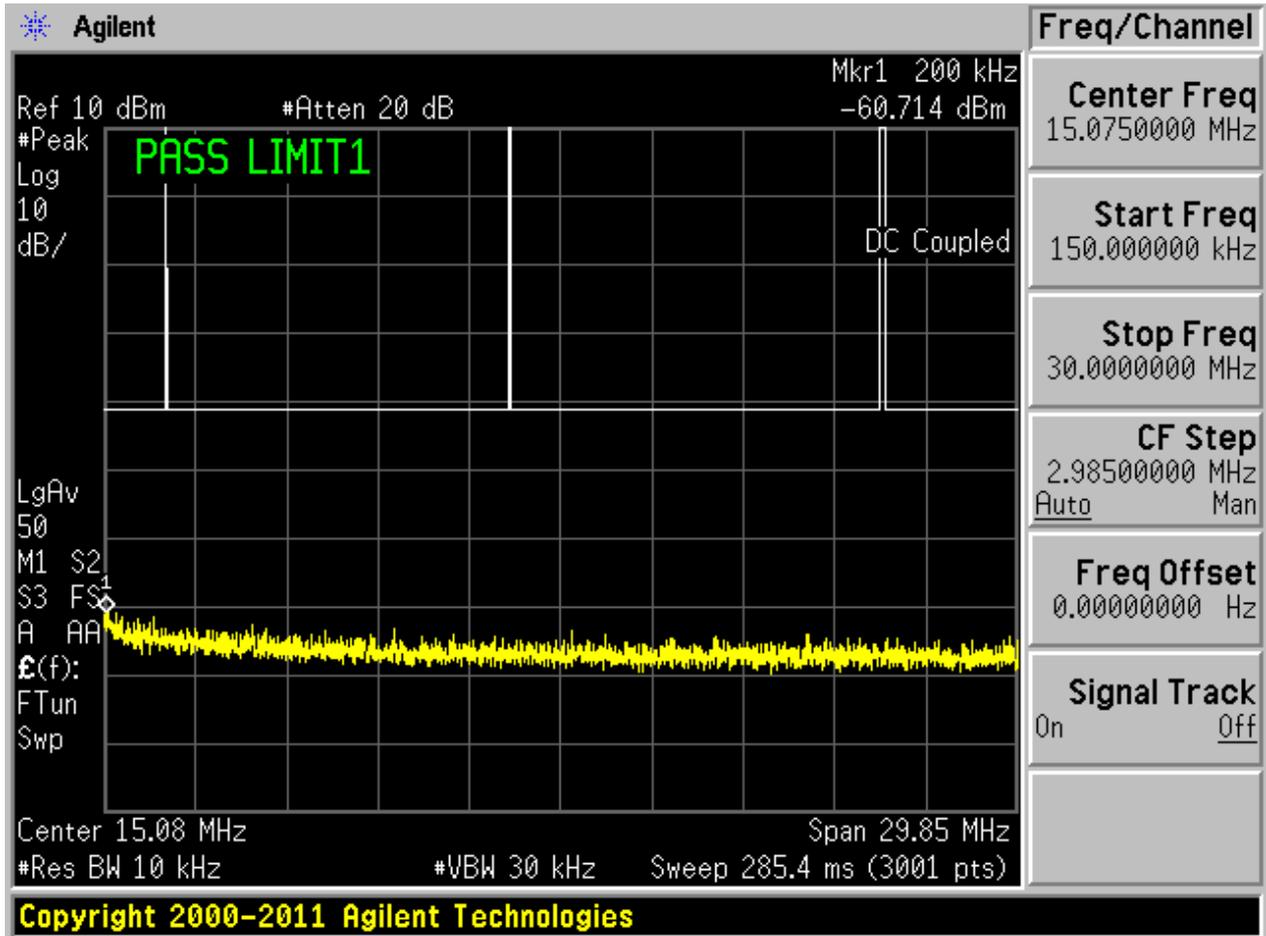
2.5 11G6-M-Ant1

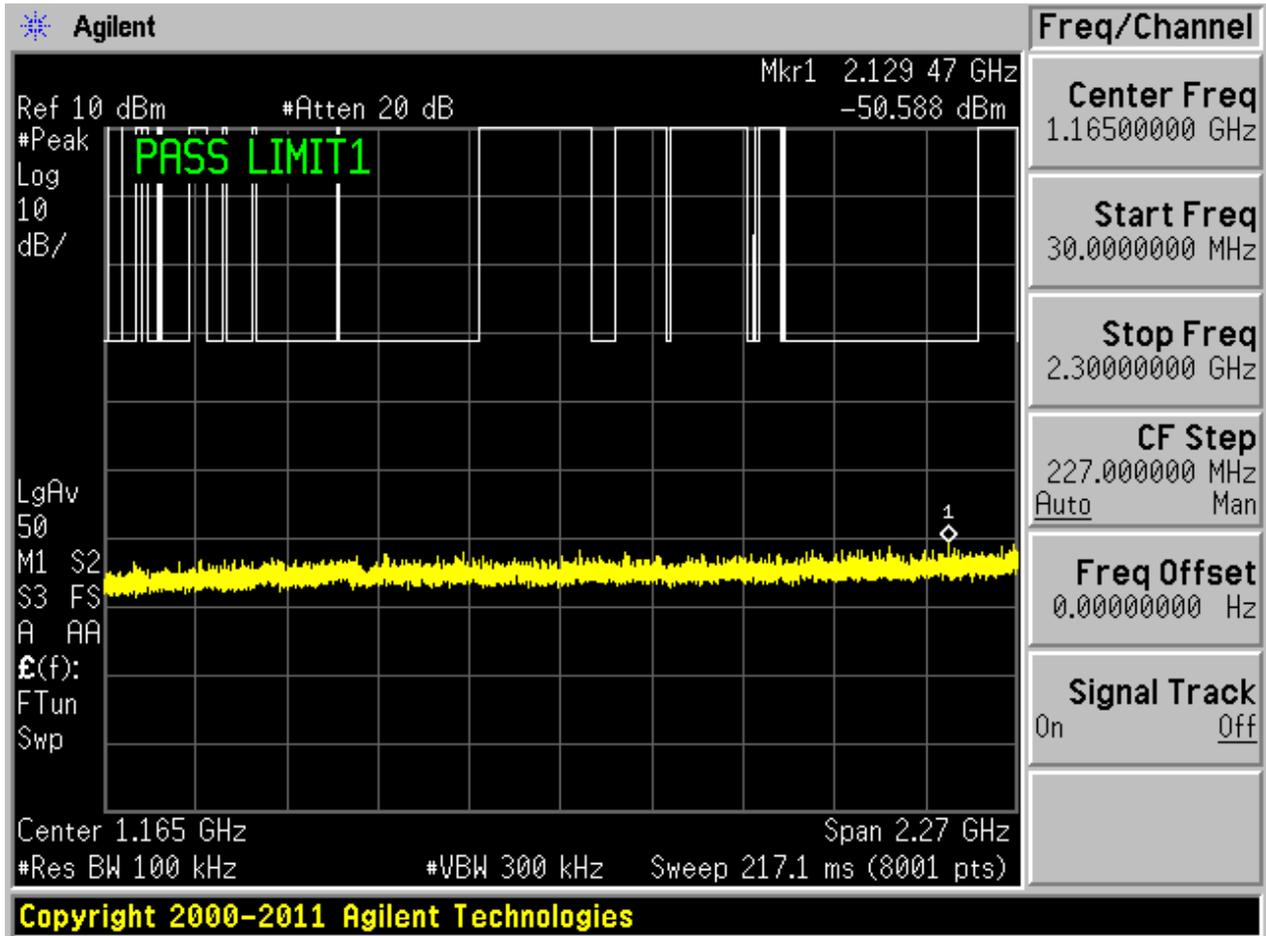
2.5.1 Pref

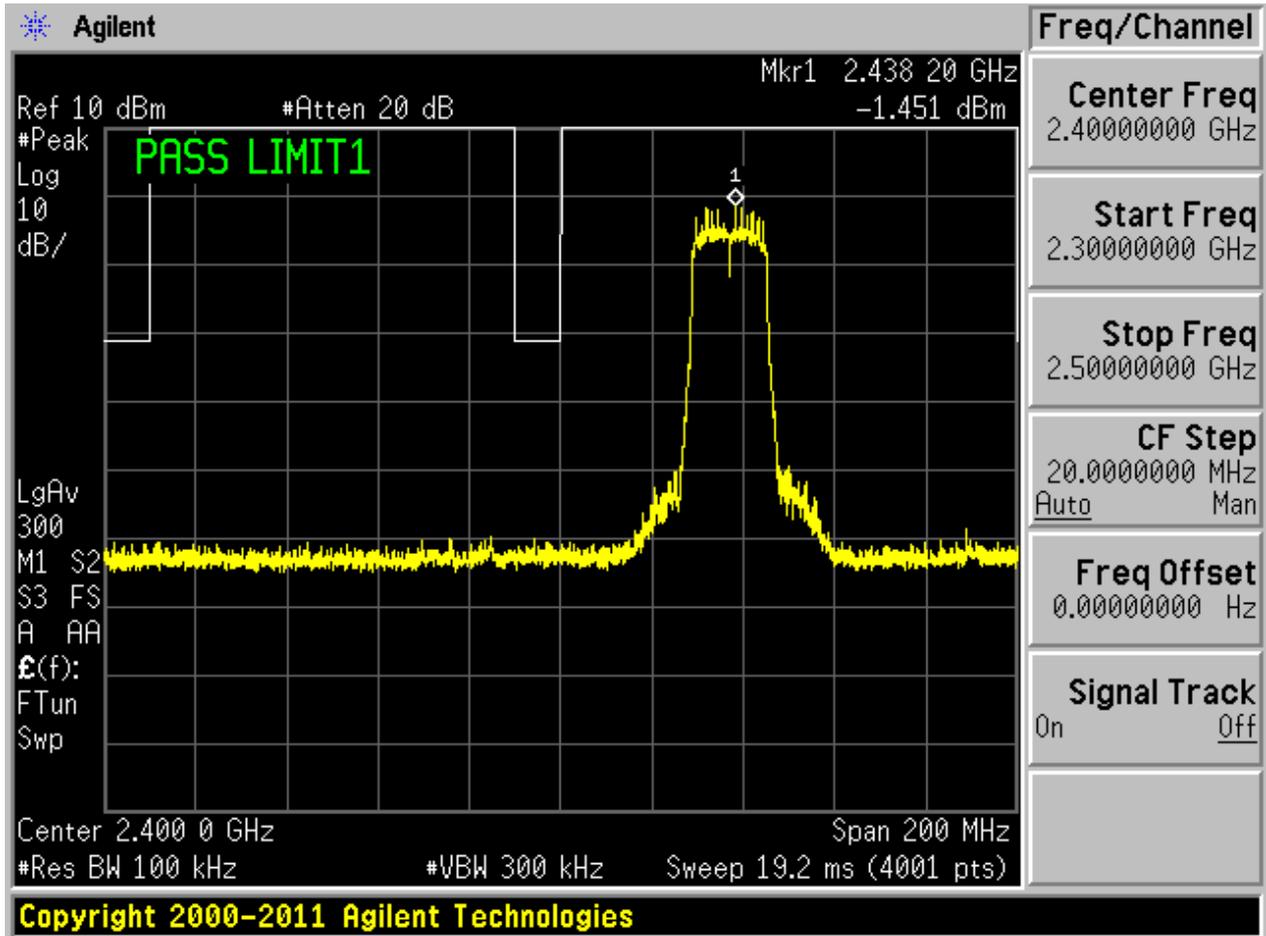


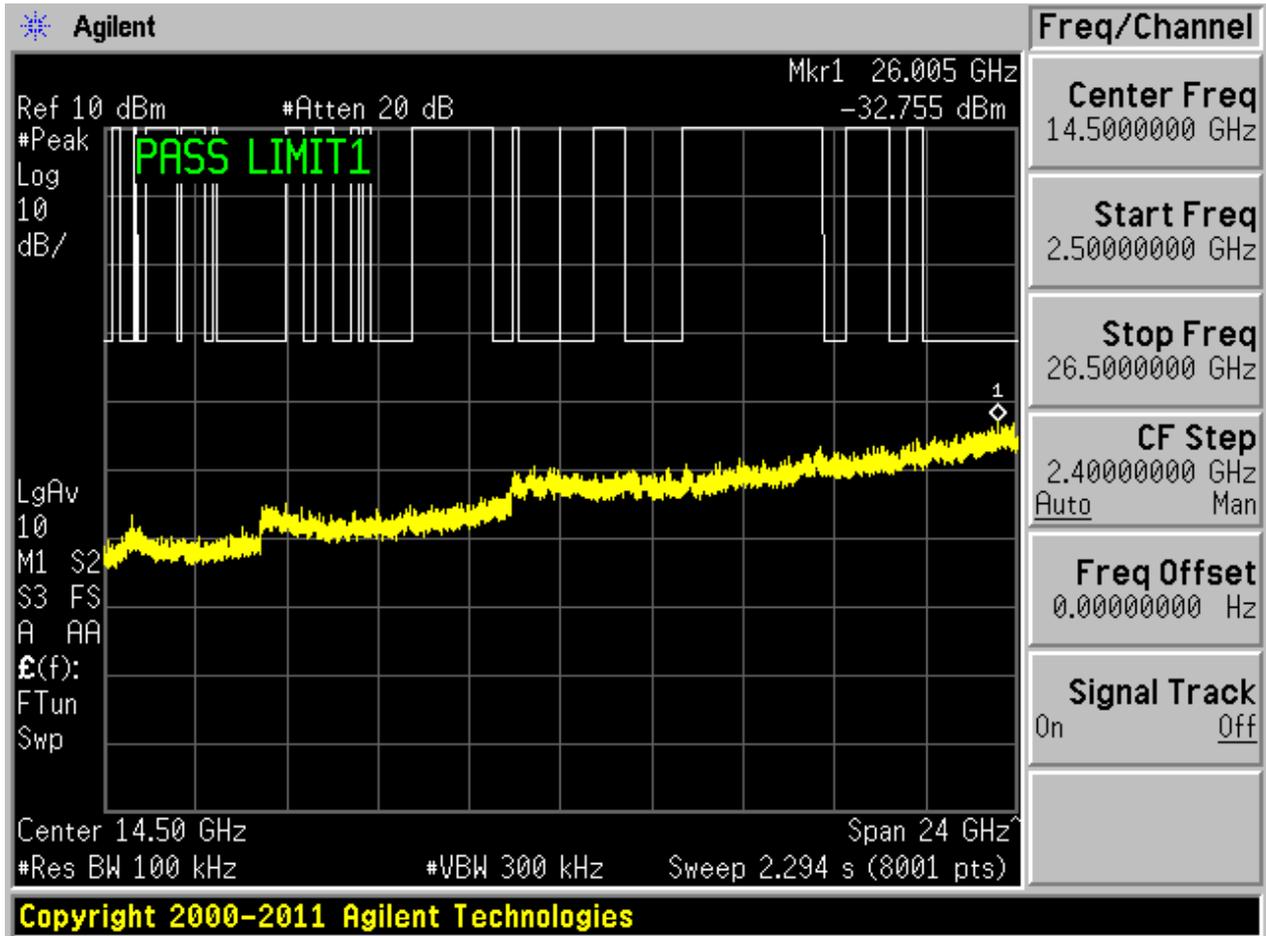
2.5.2 Puw





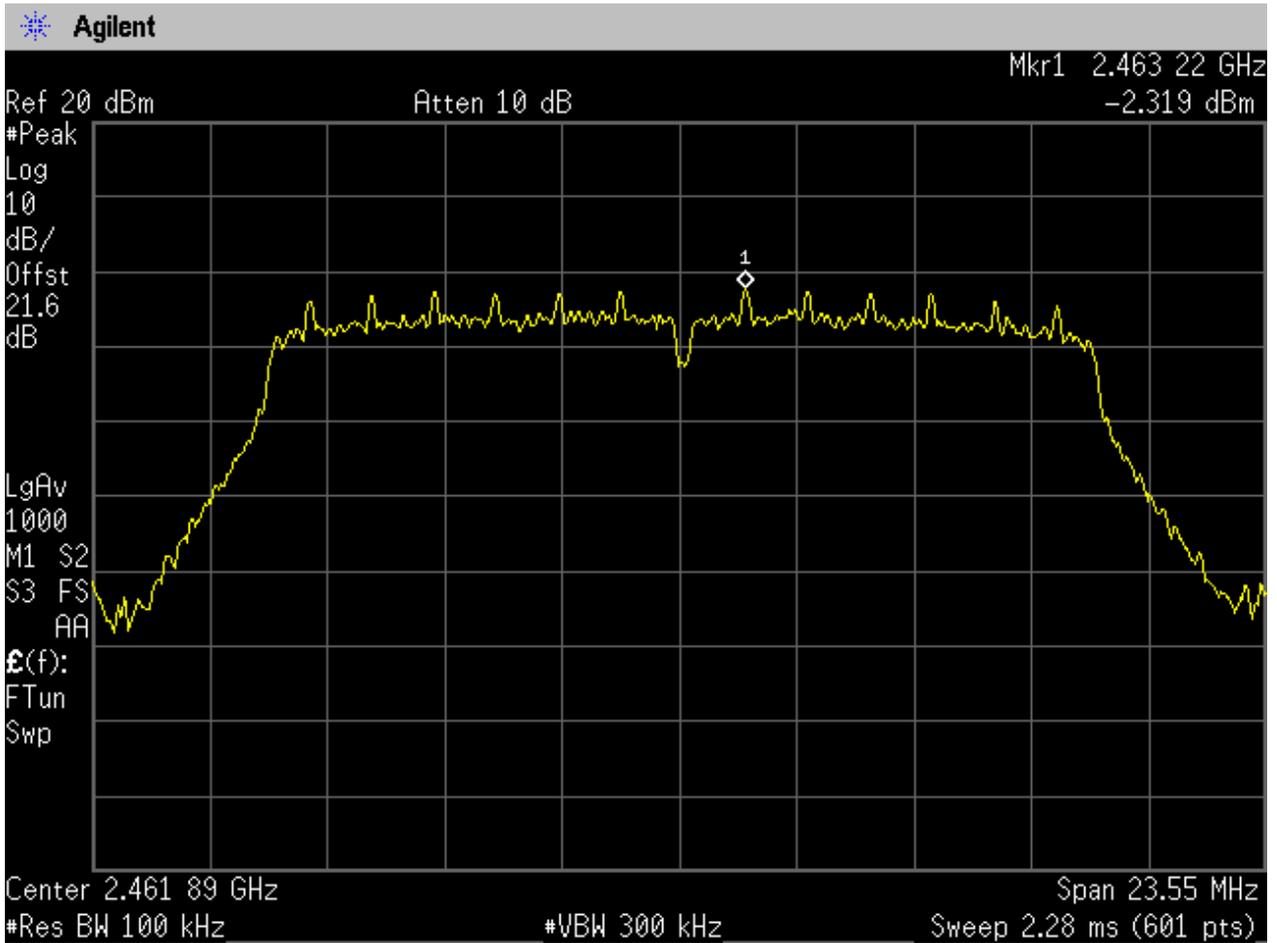




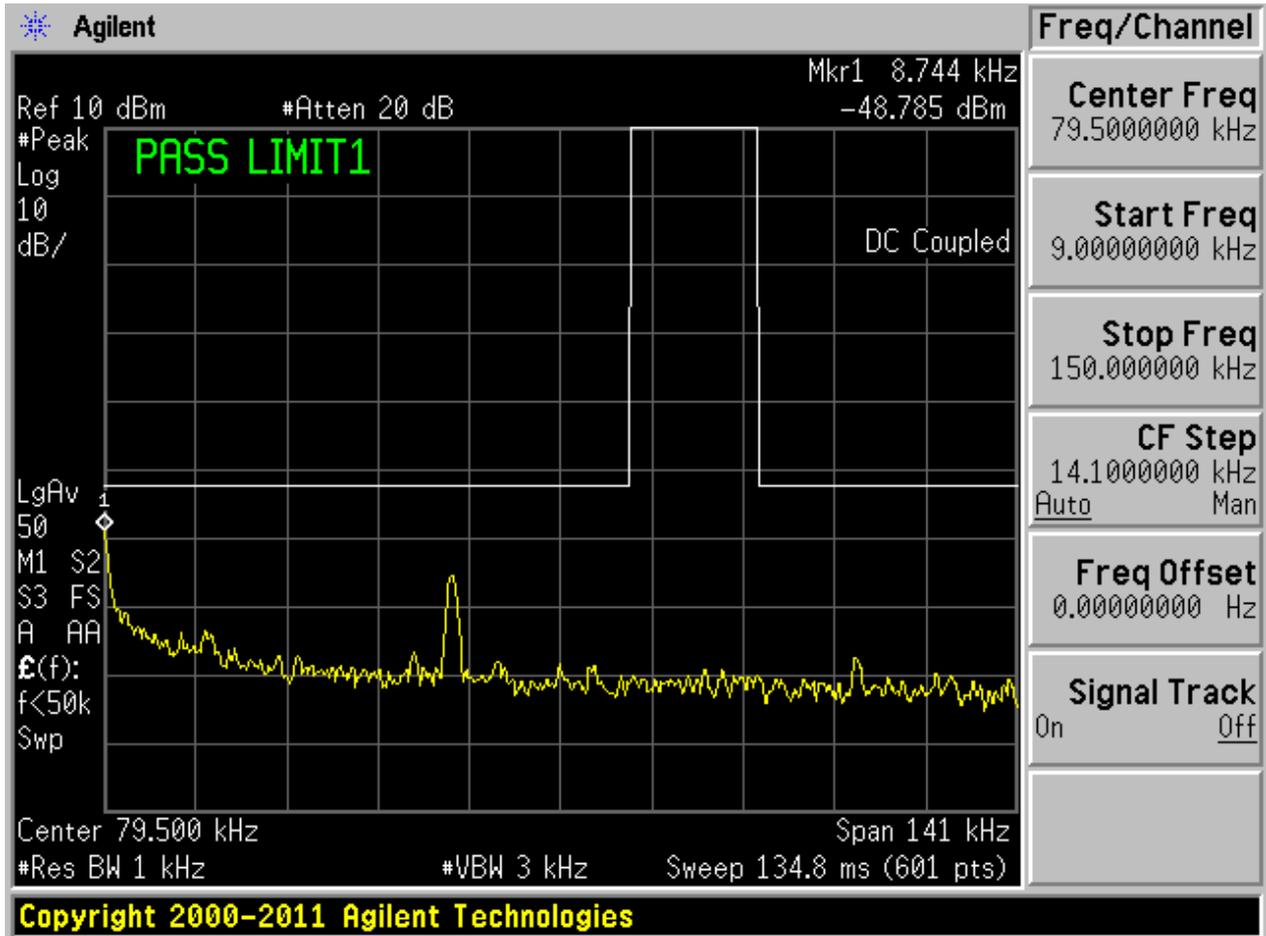


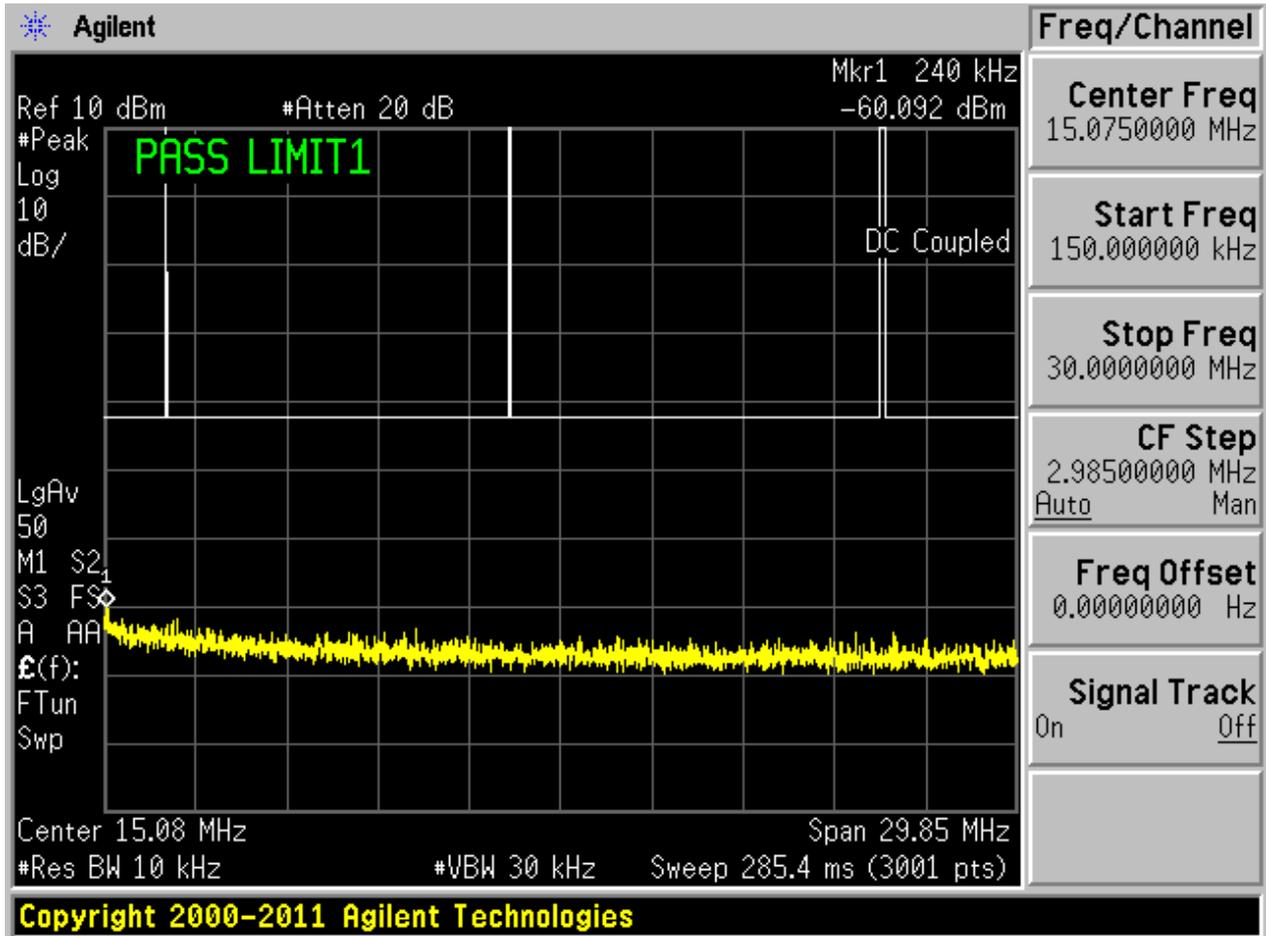
2.6 11G6-T-Ant1

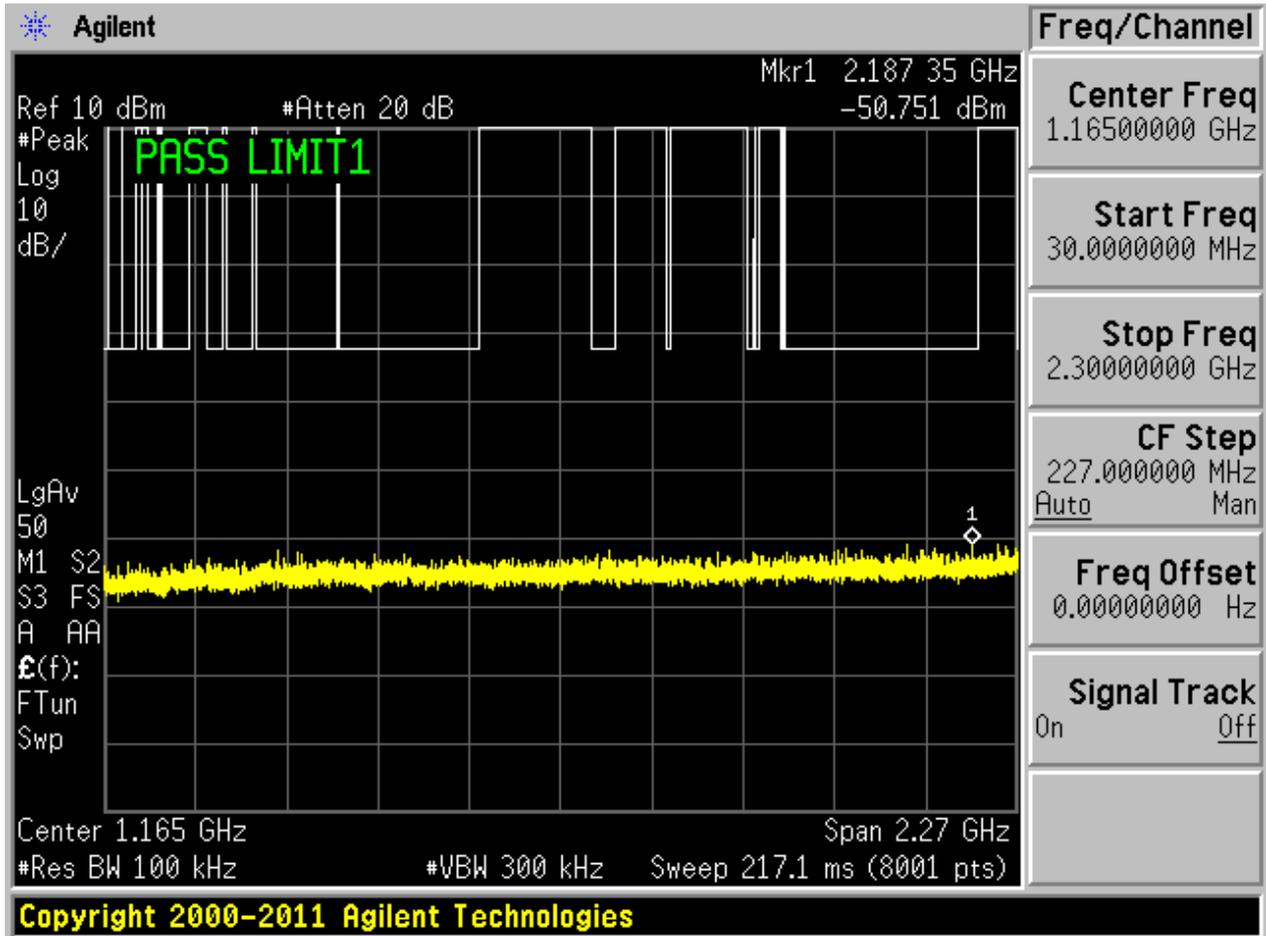
2.6.1 Pref

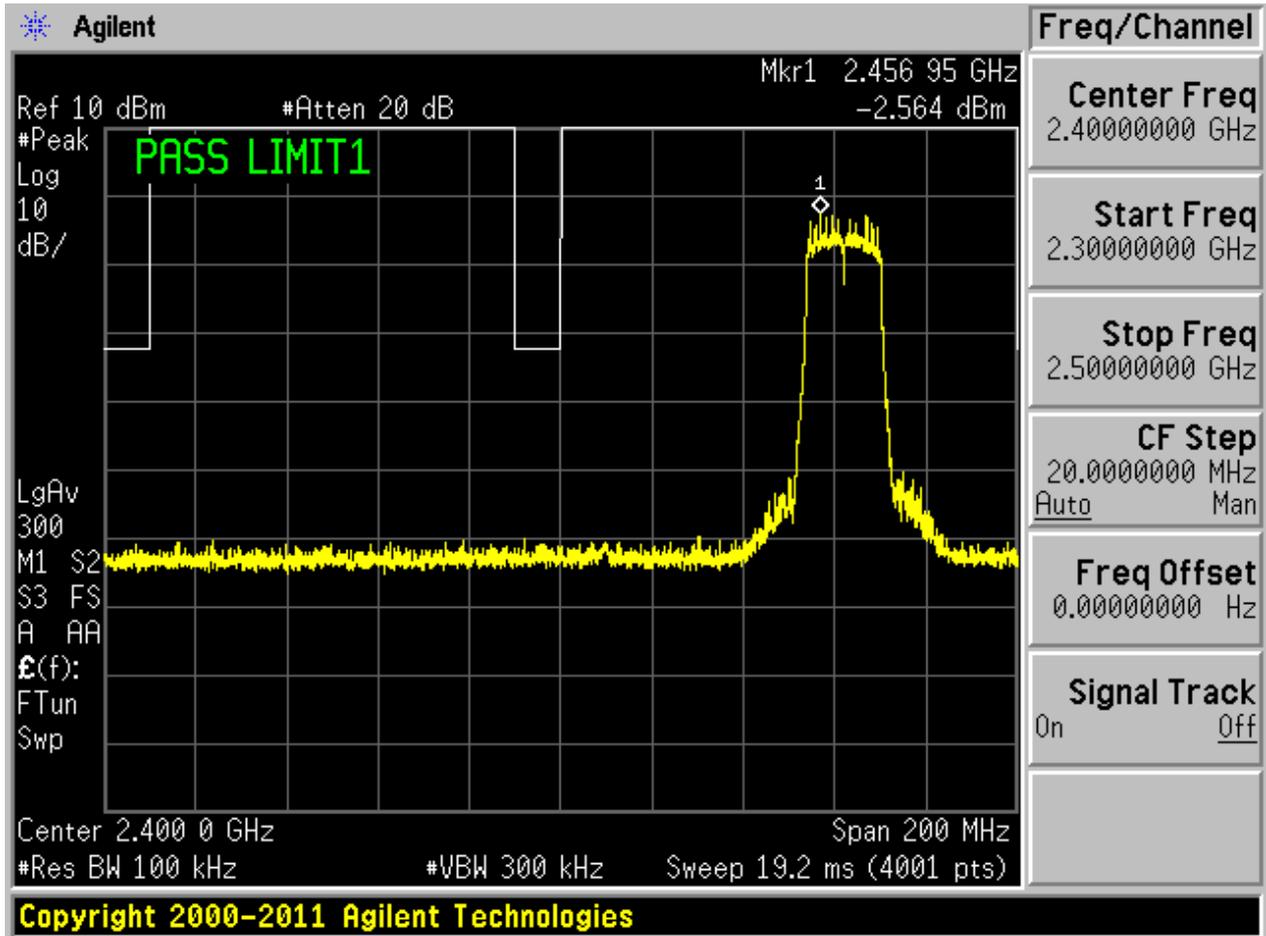


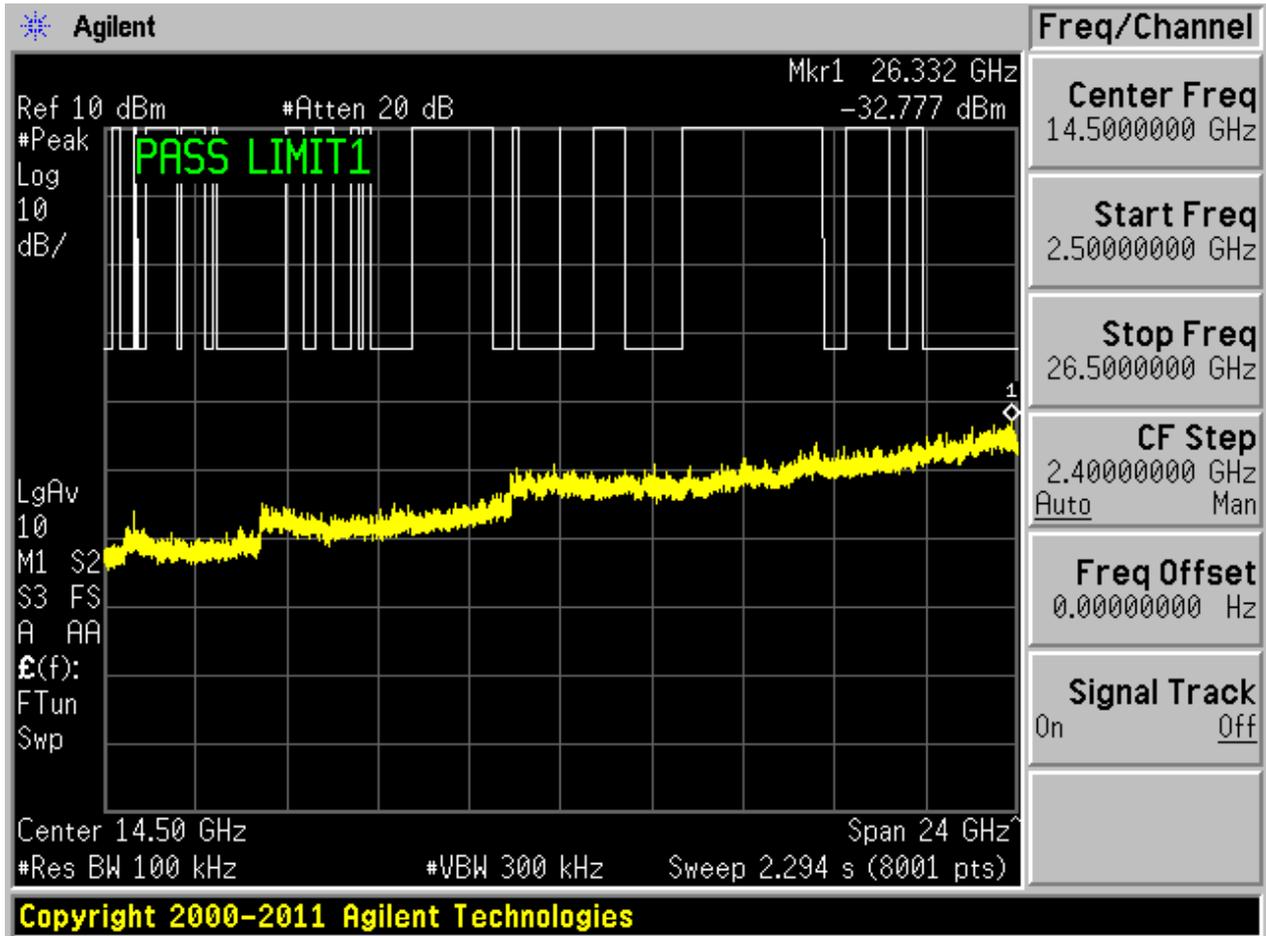
2.6.2 Puw





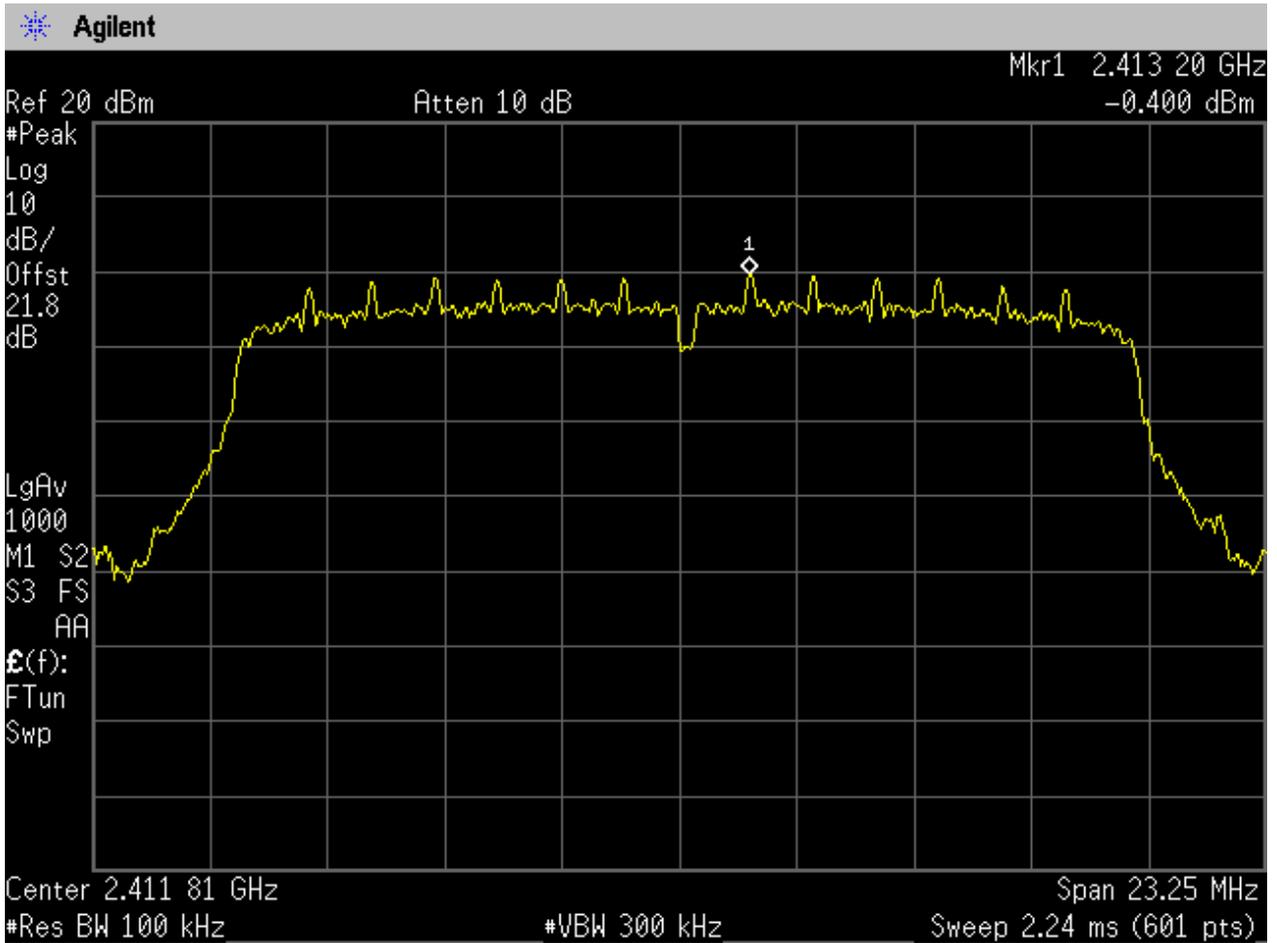




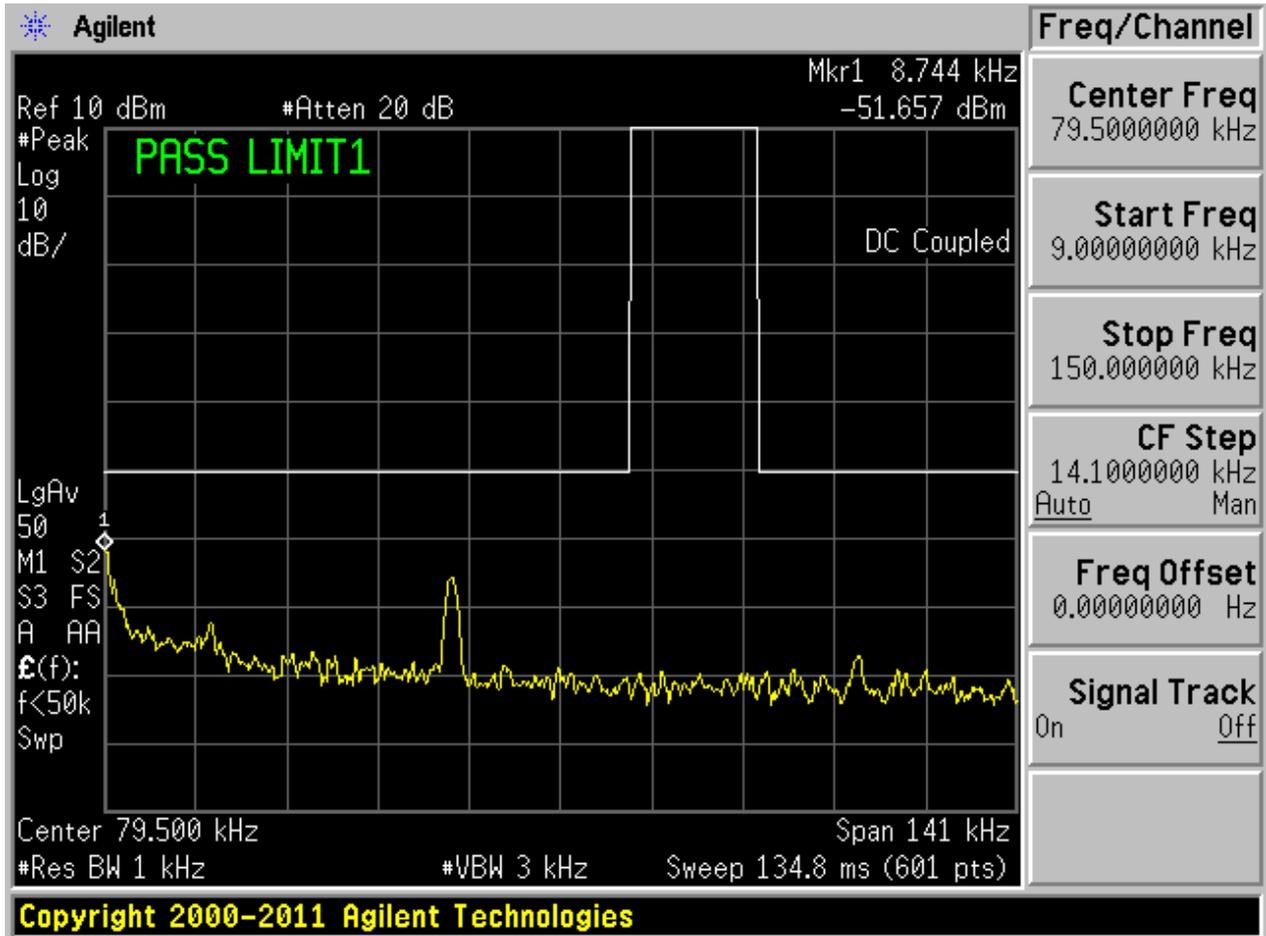


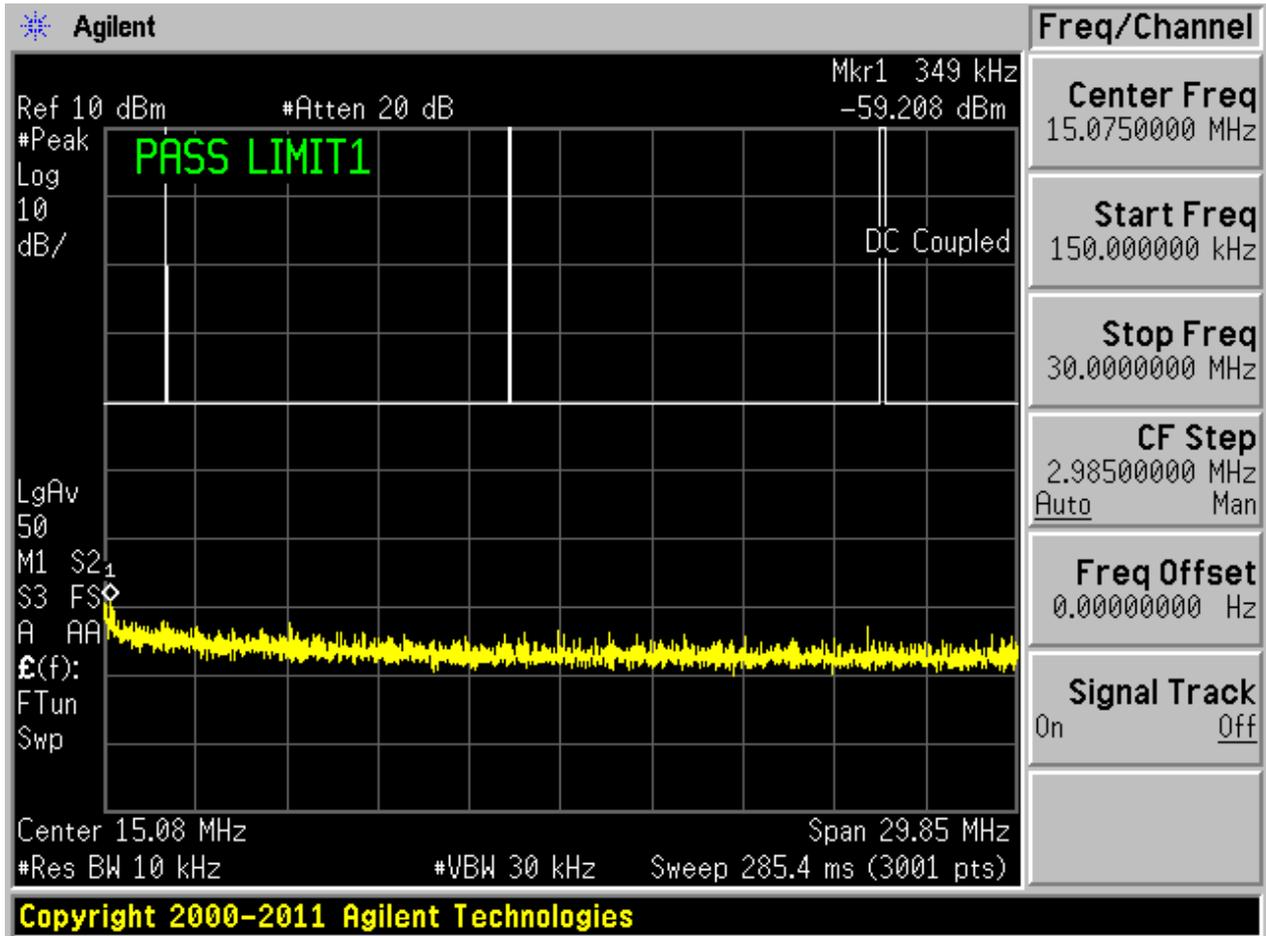
2.7 11N0-20B-Ant1

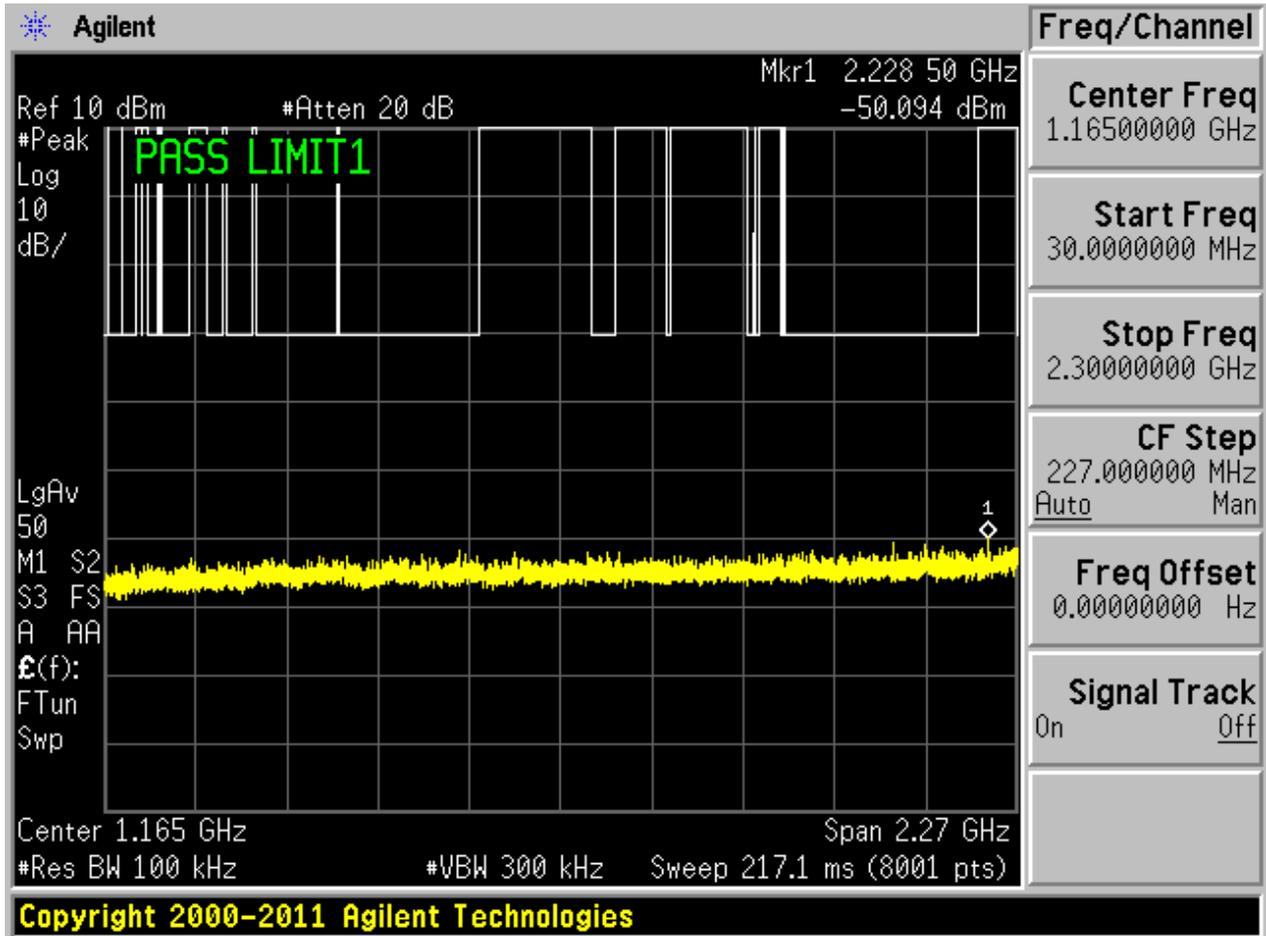
2.7.1 Pref

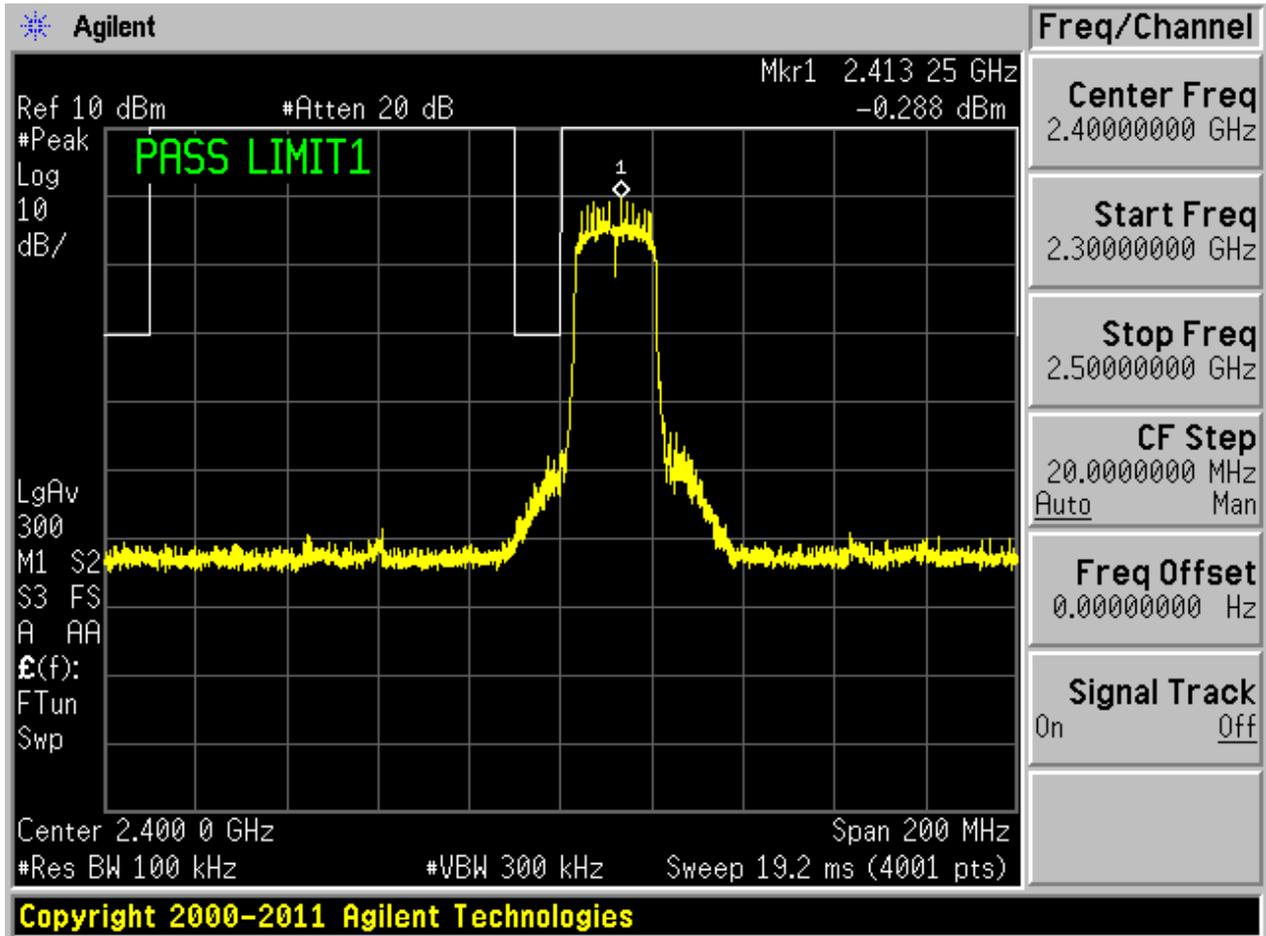


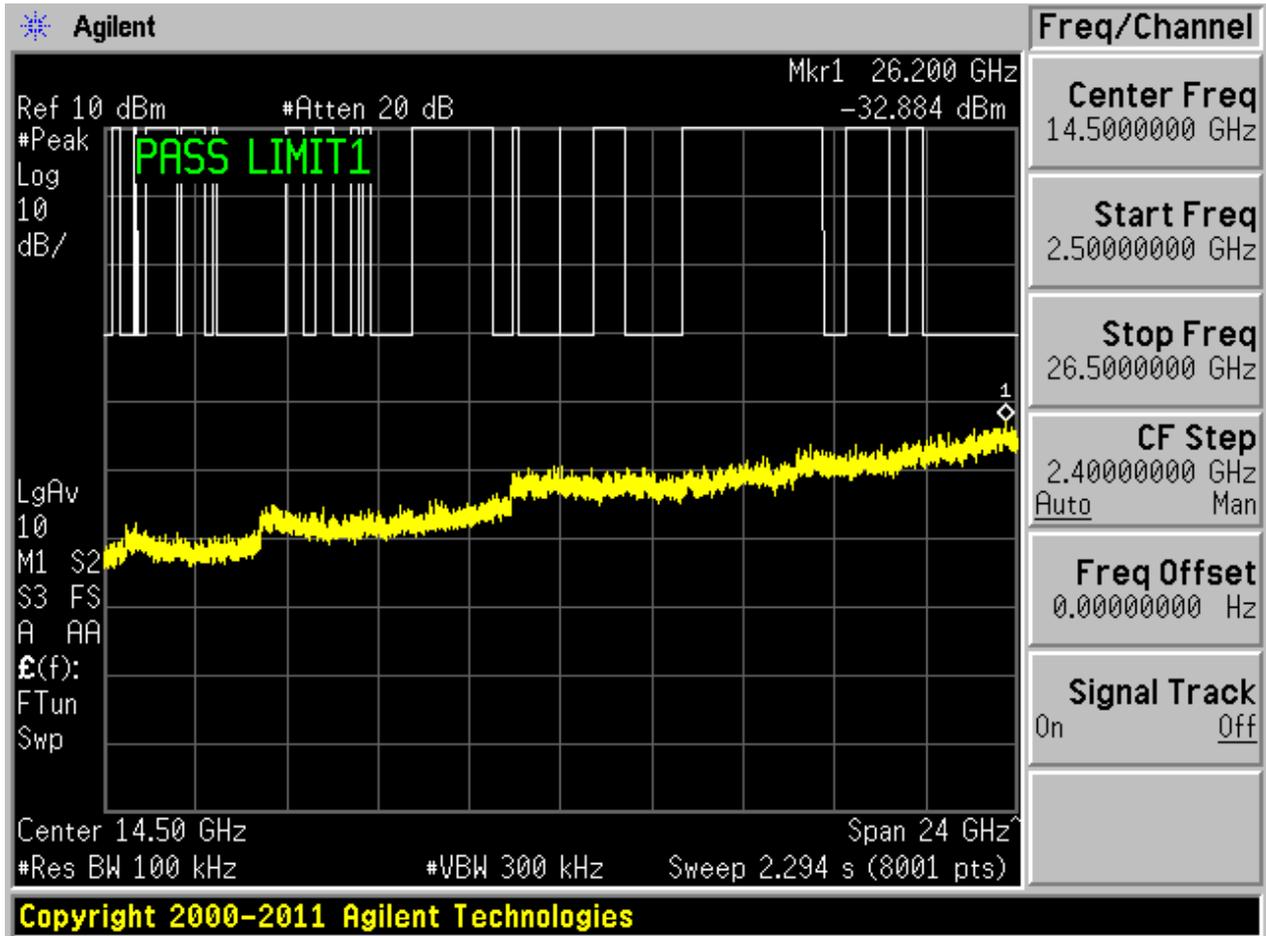
2.7.2 Puw





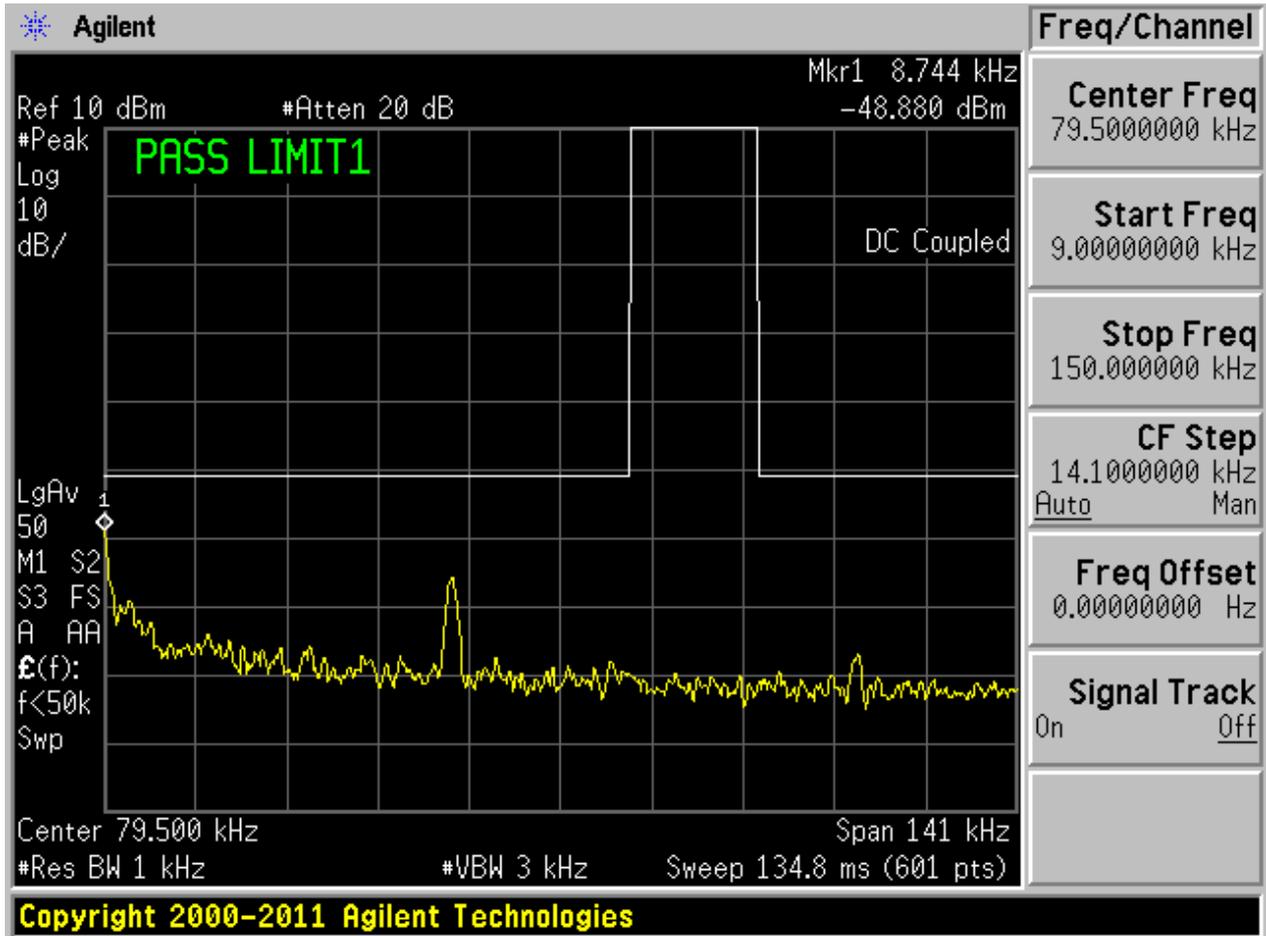


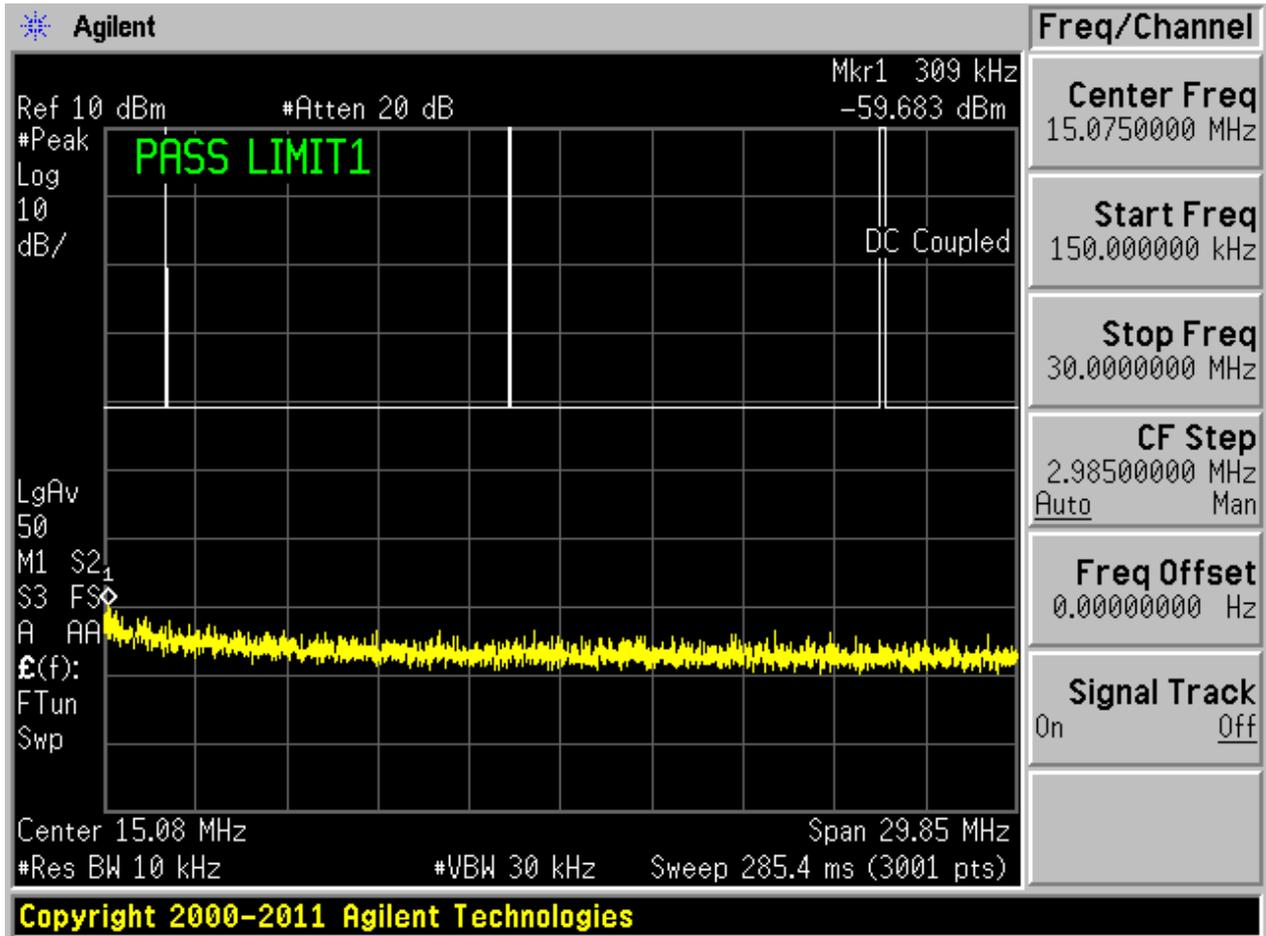


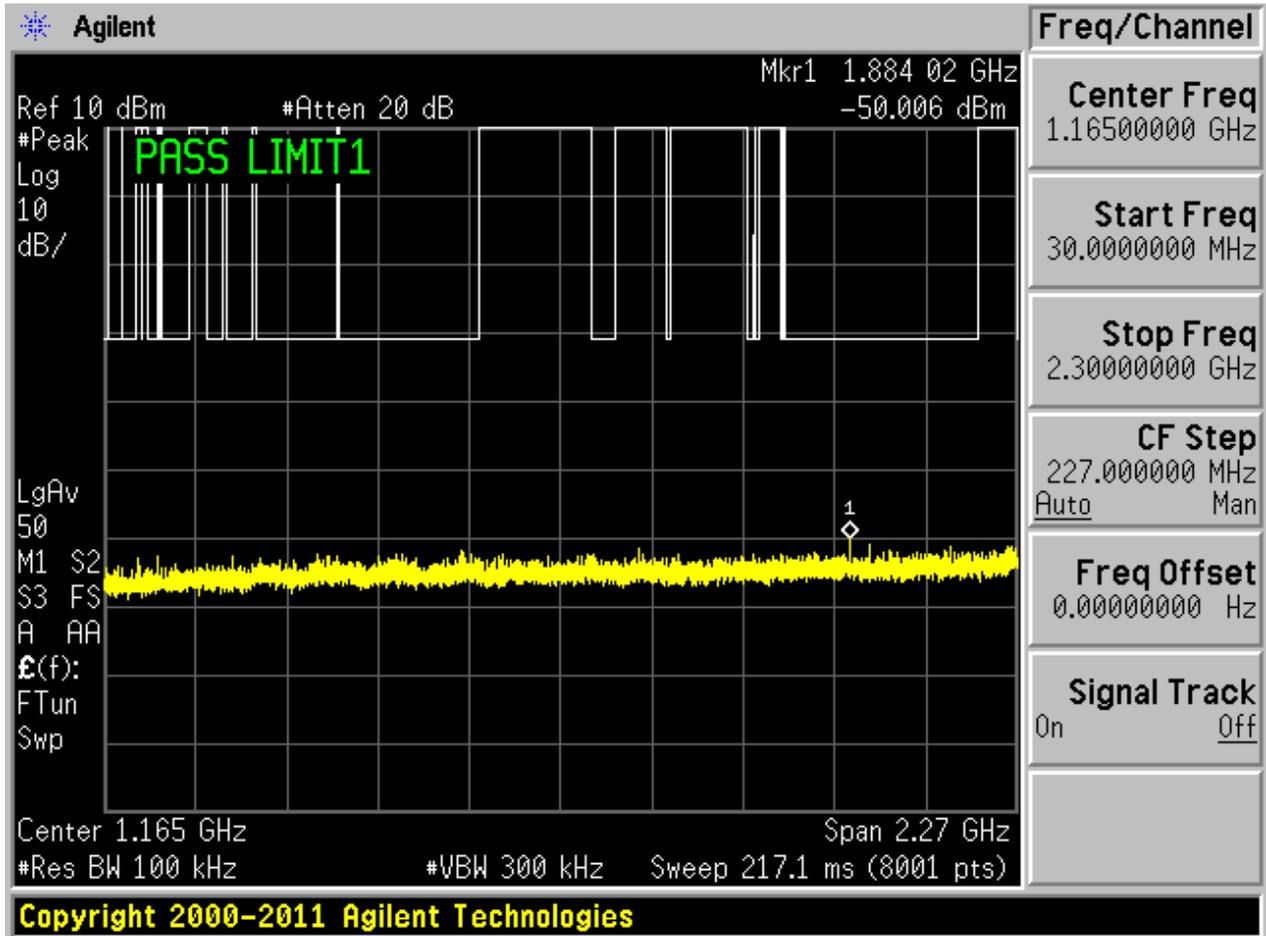


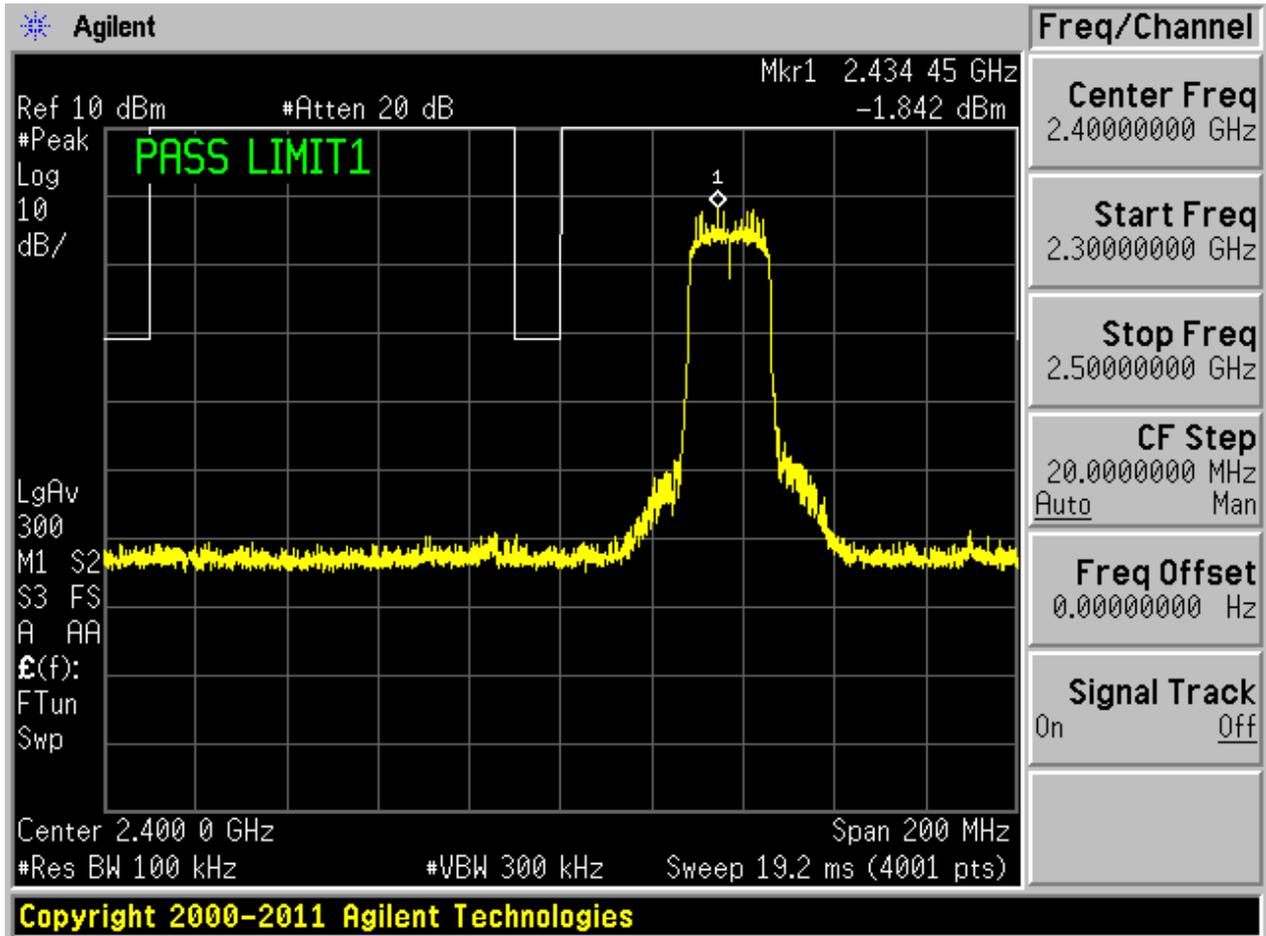
2.8 11N0-20M-Ant1

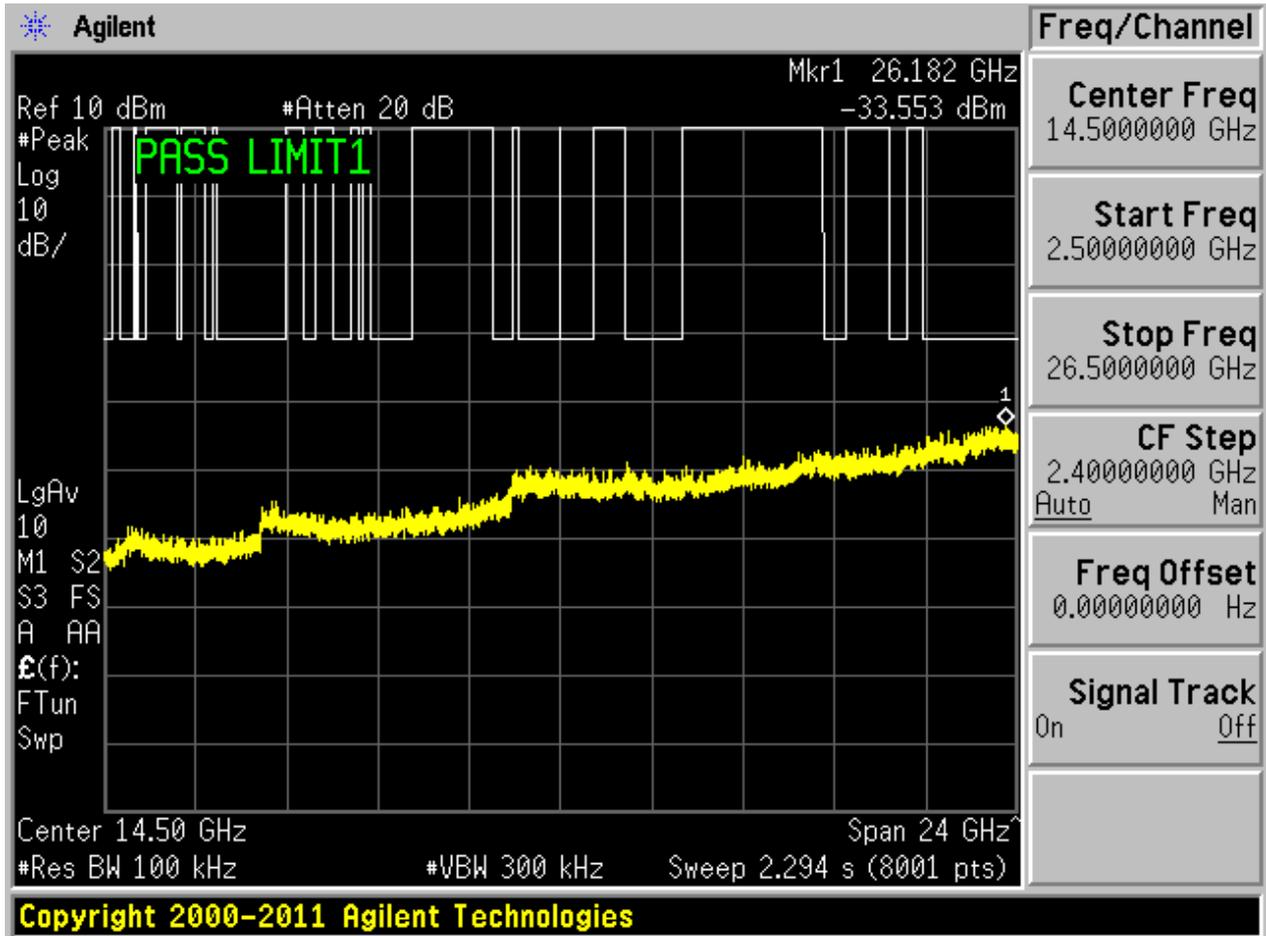
2.8.1 Pref





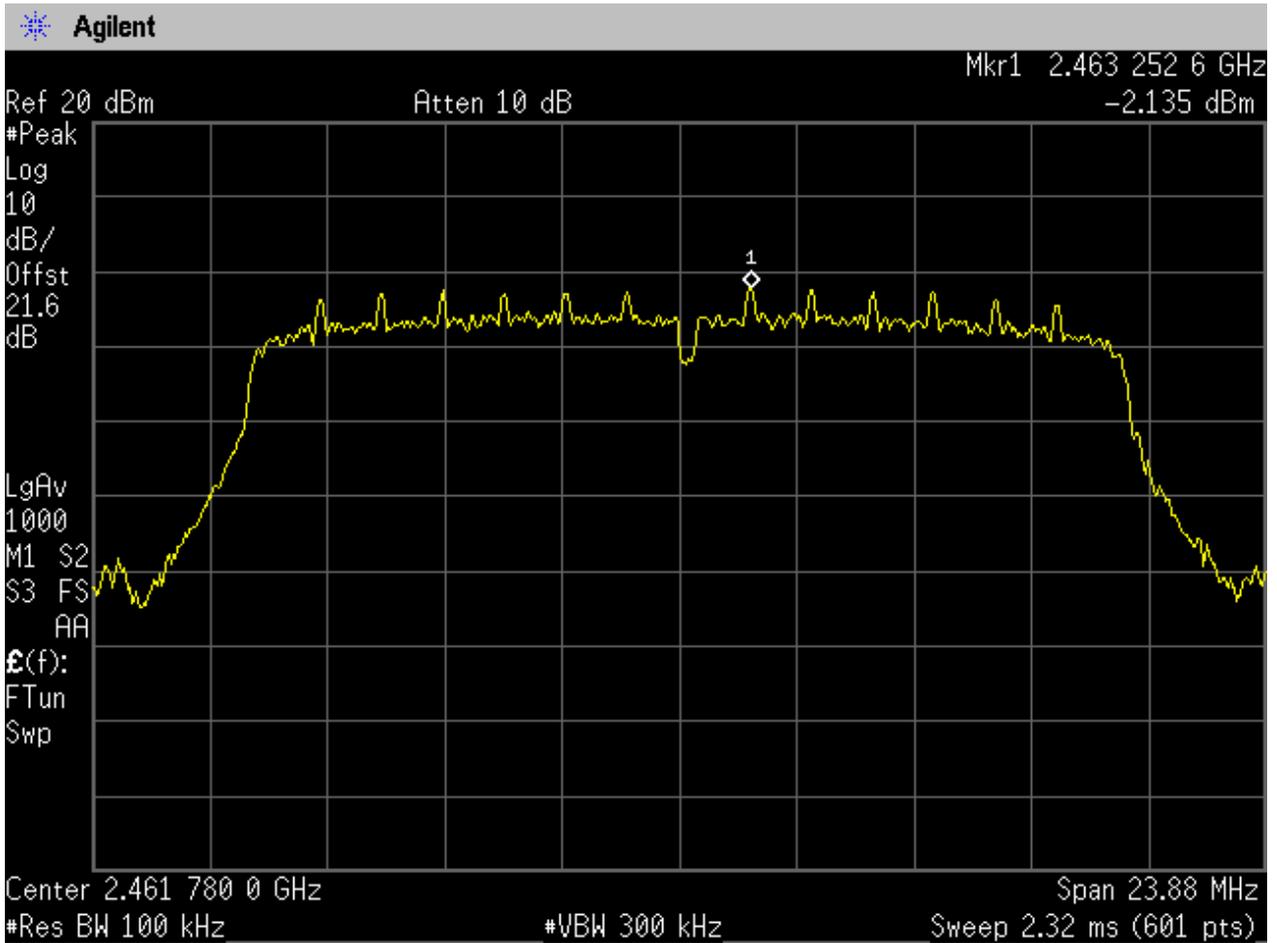




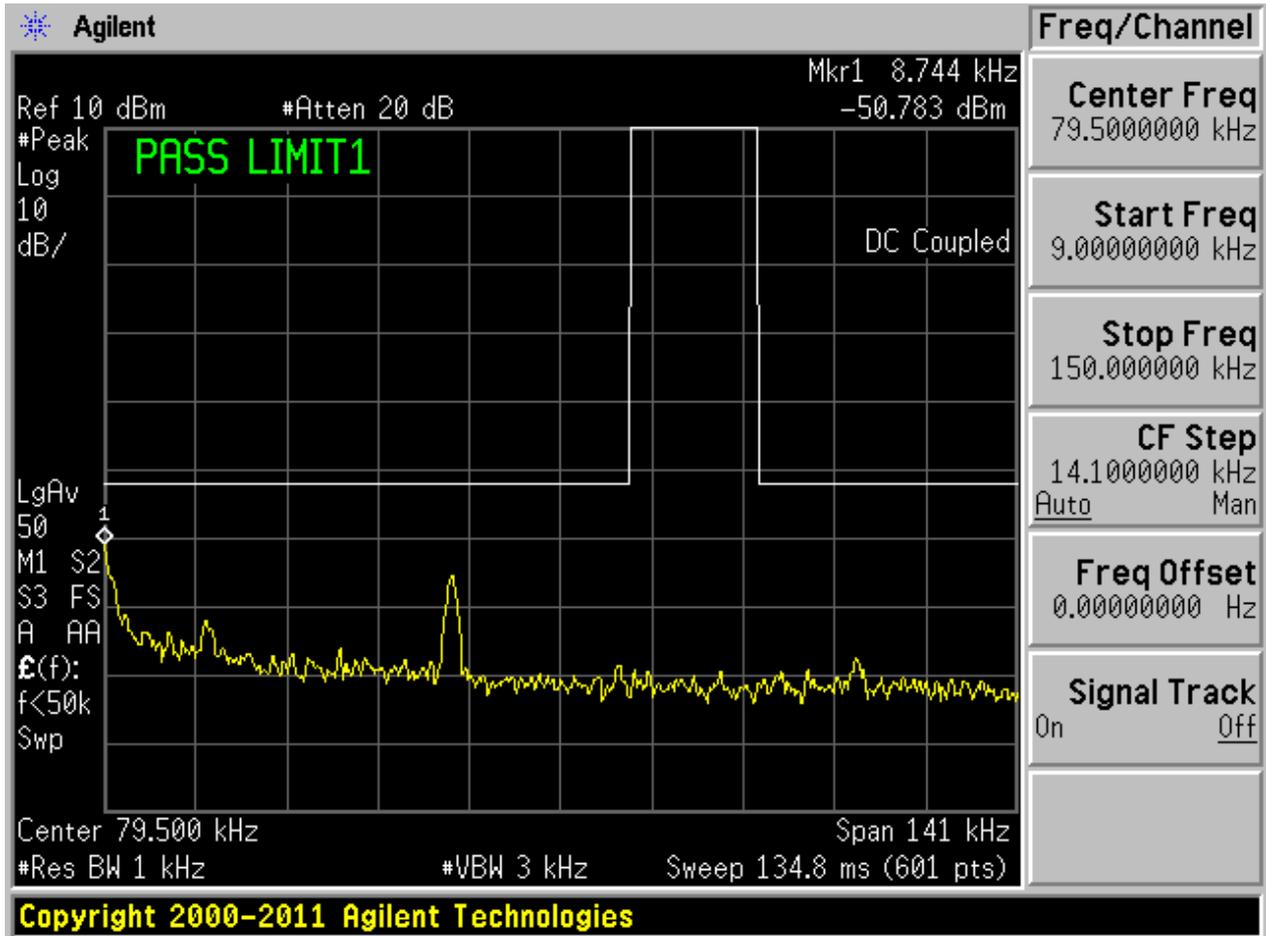


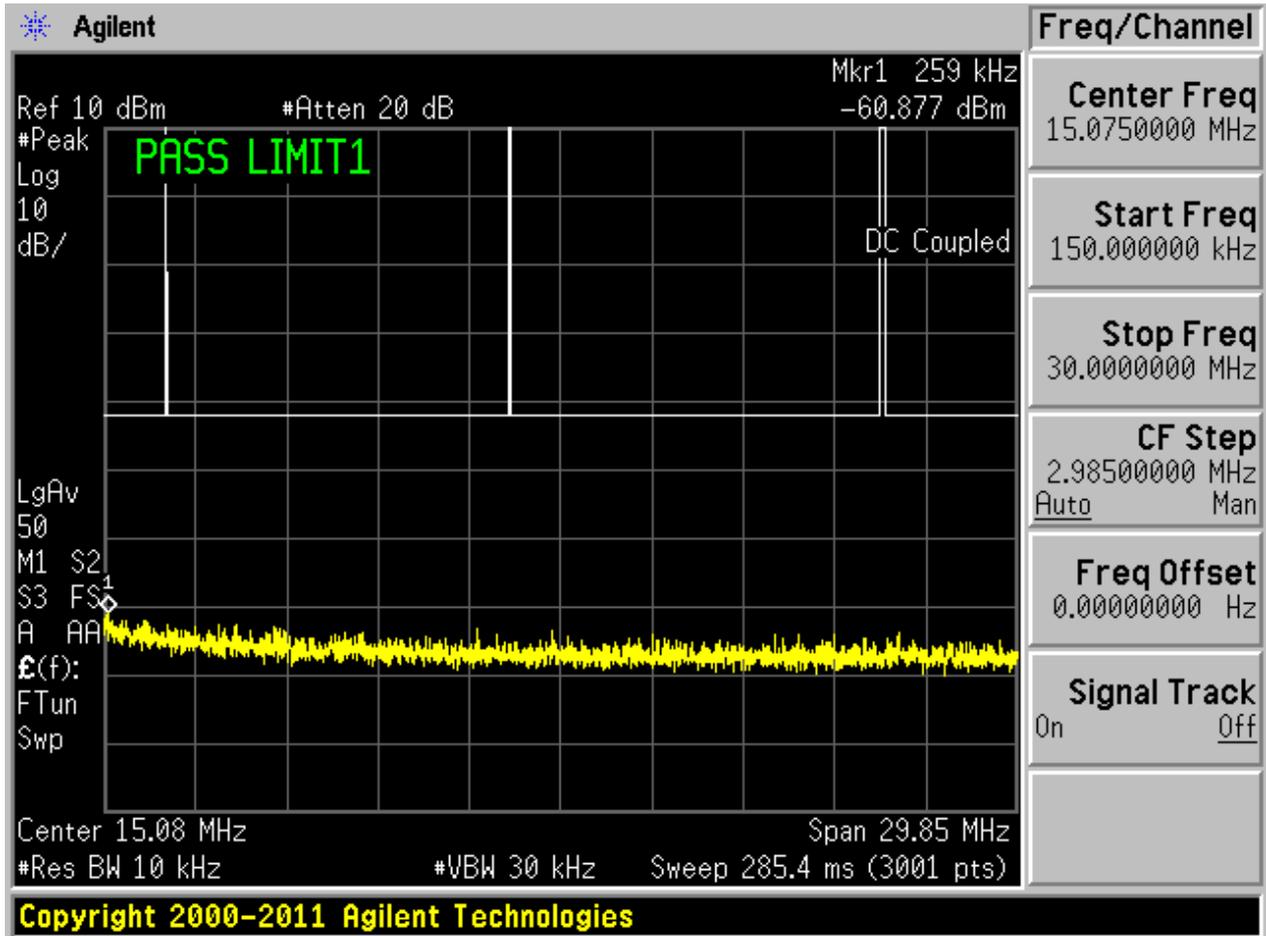
2.9 11N0-20T-Ant1

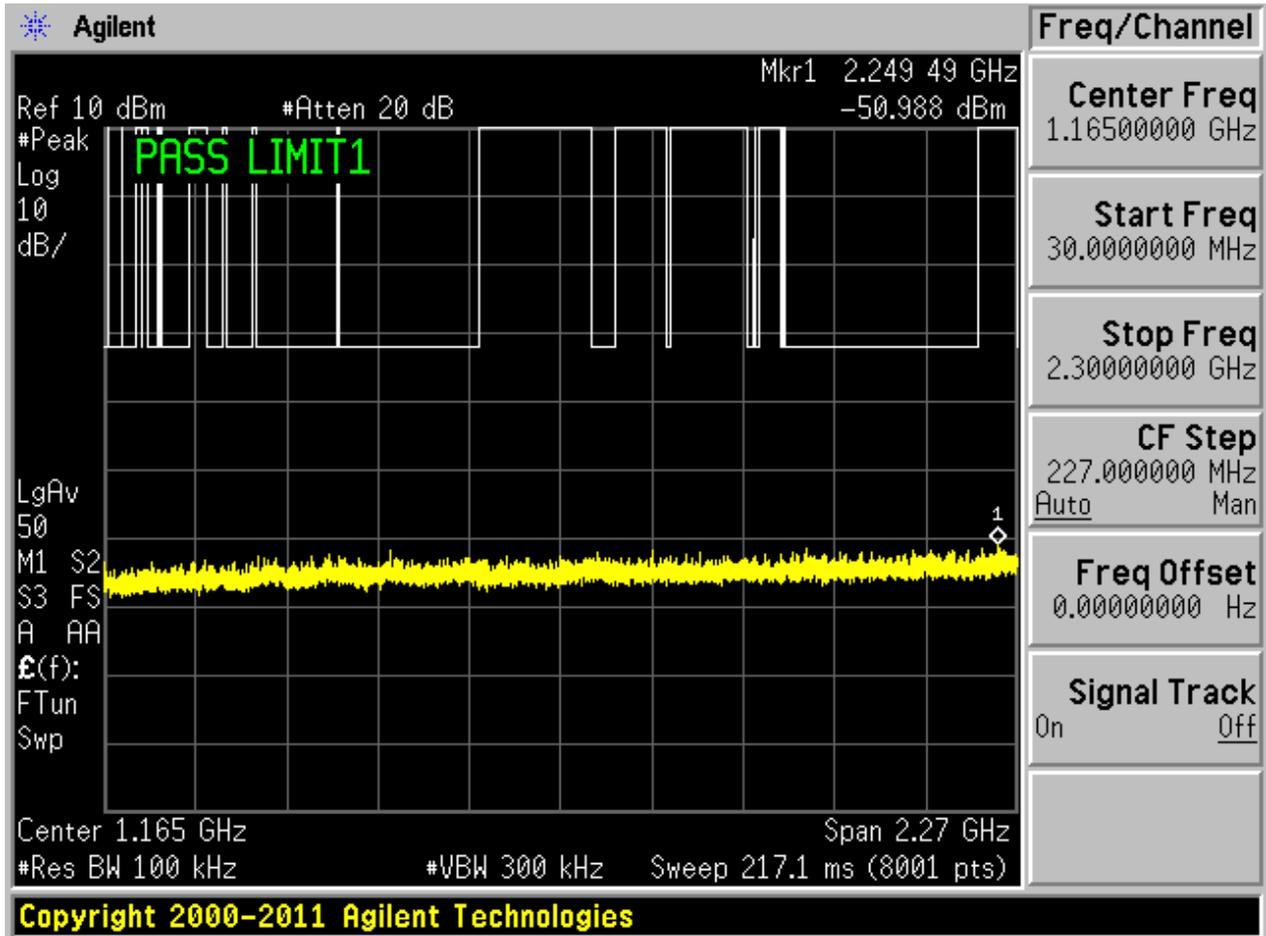
2.9.1 Pref

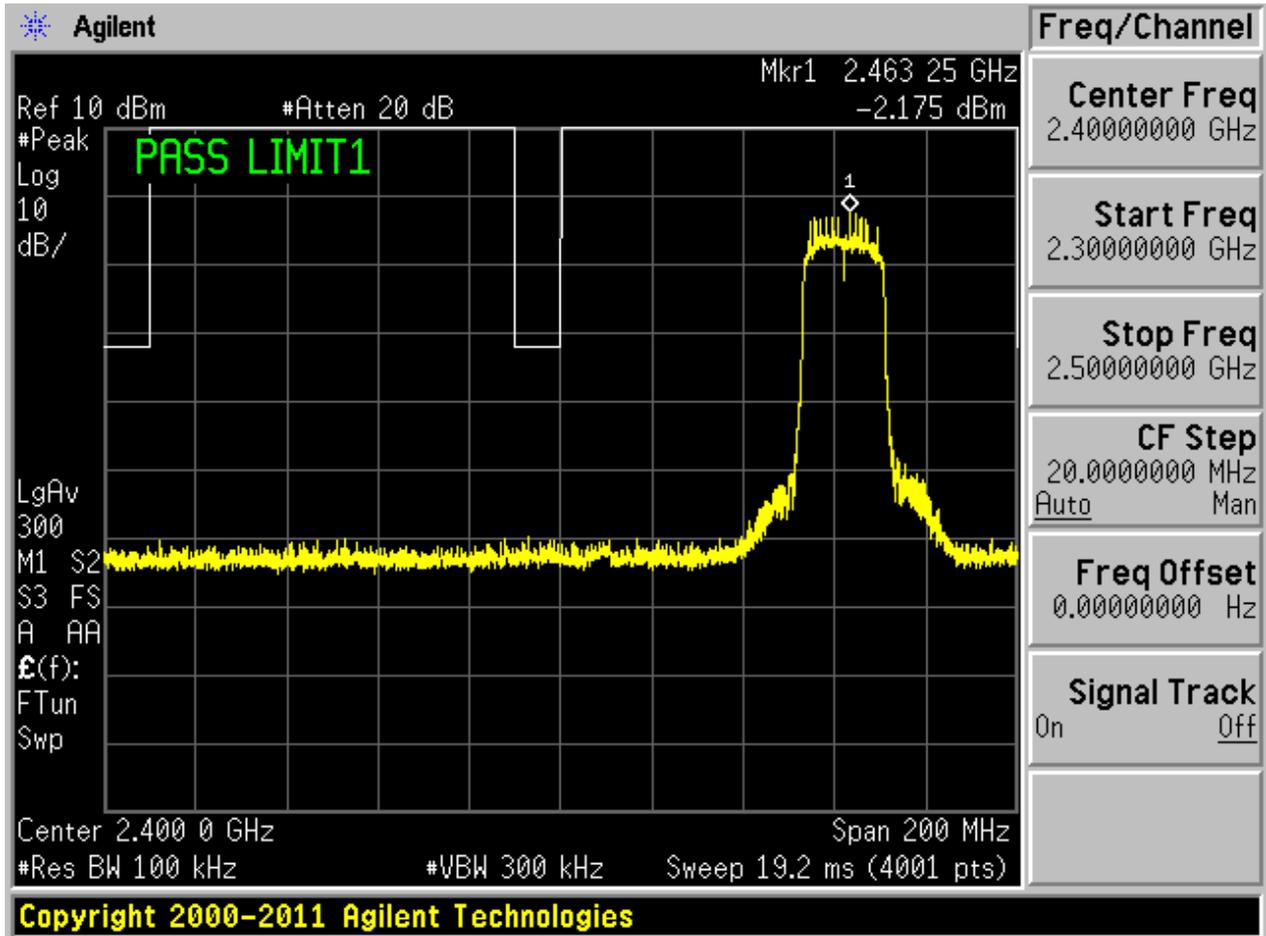


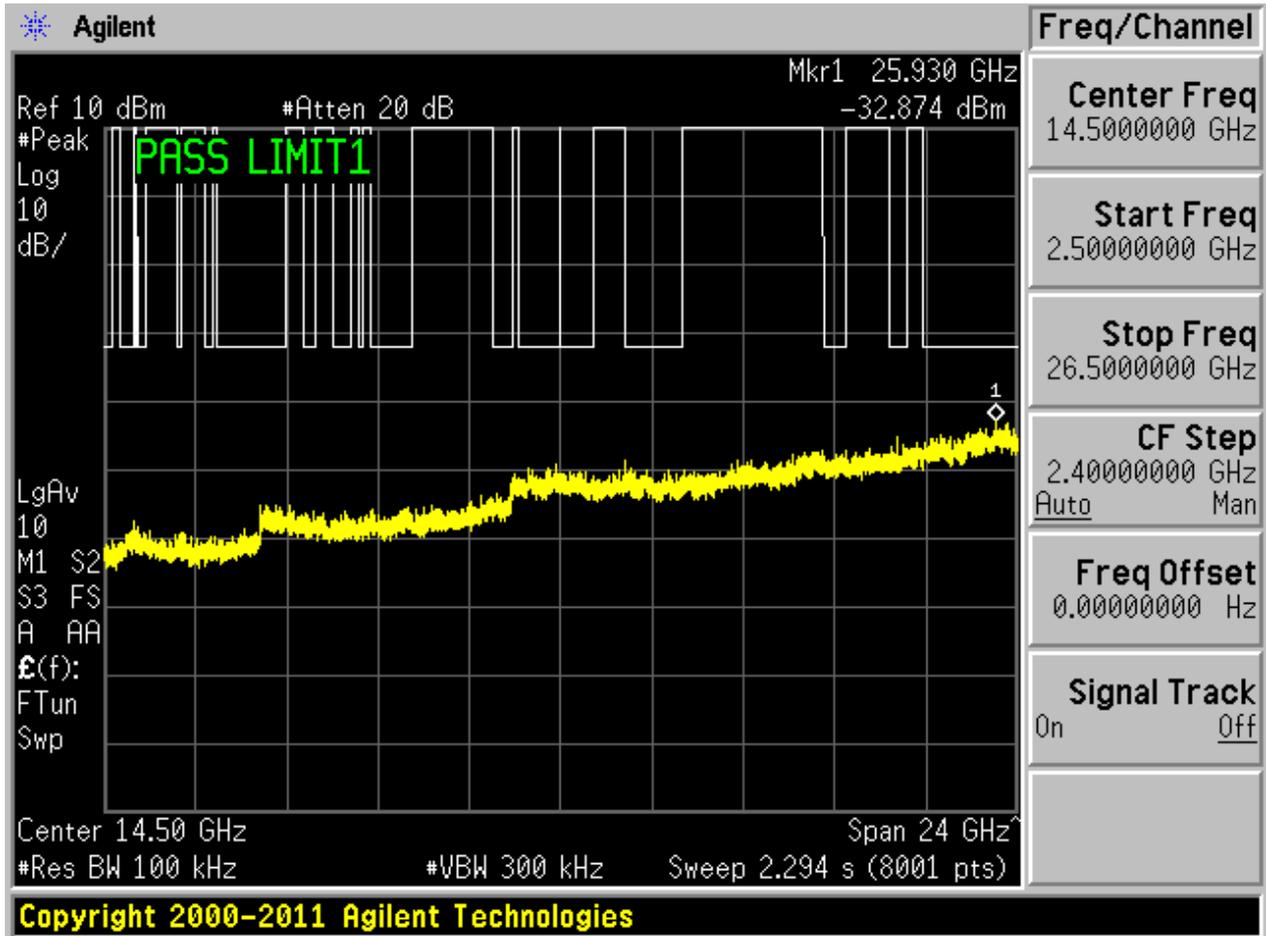
2.9.2 Puw





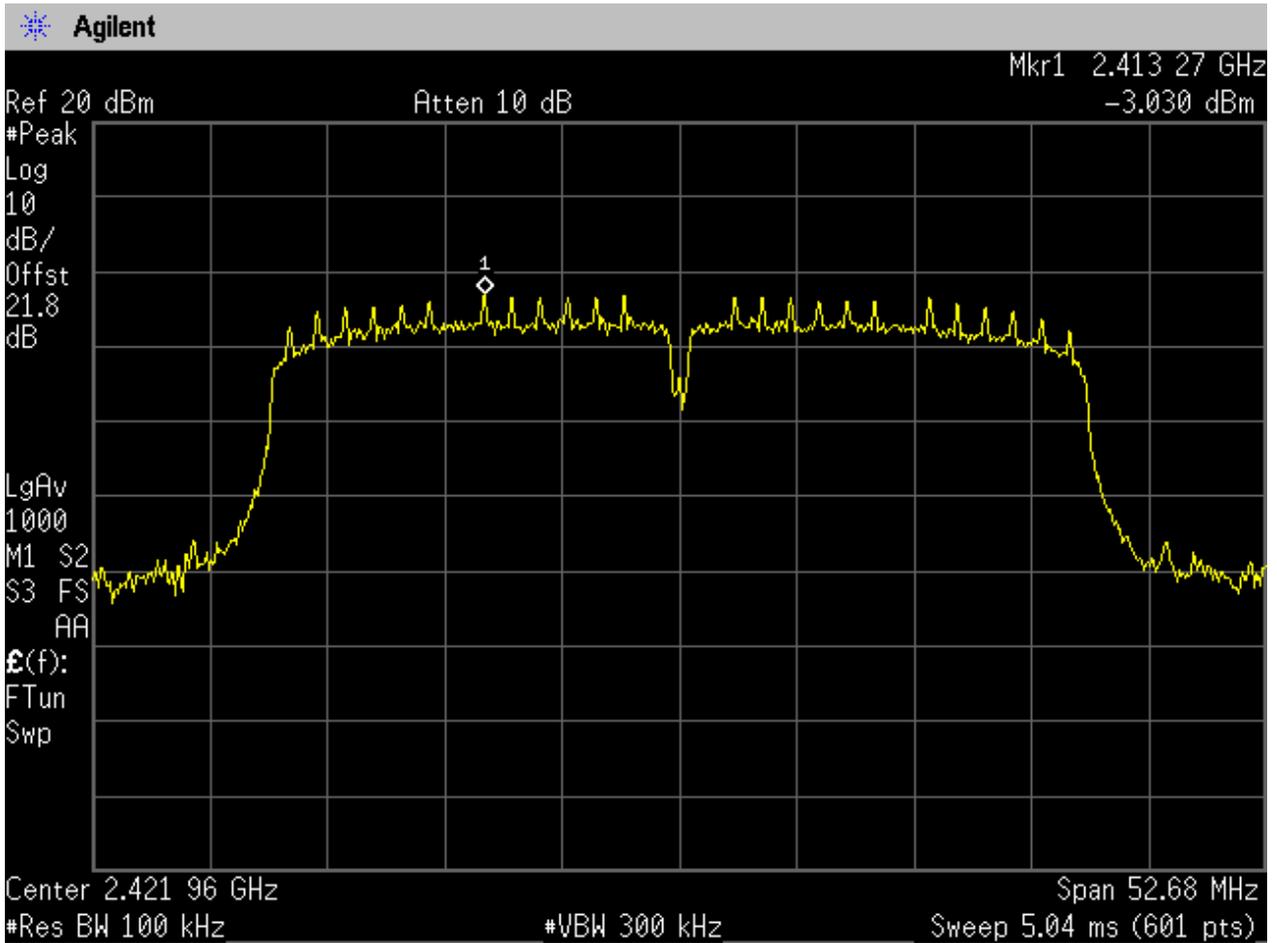




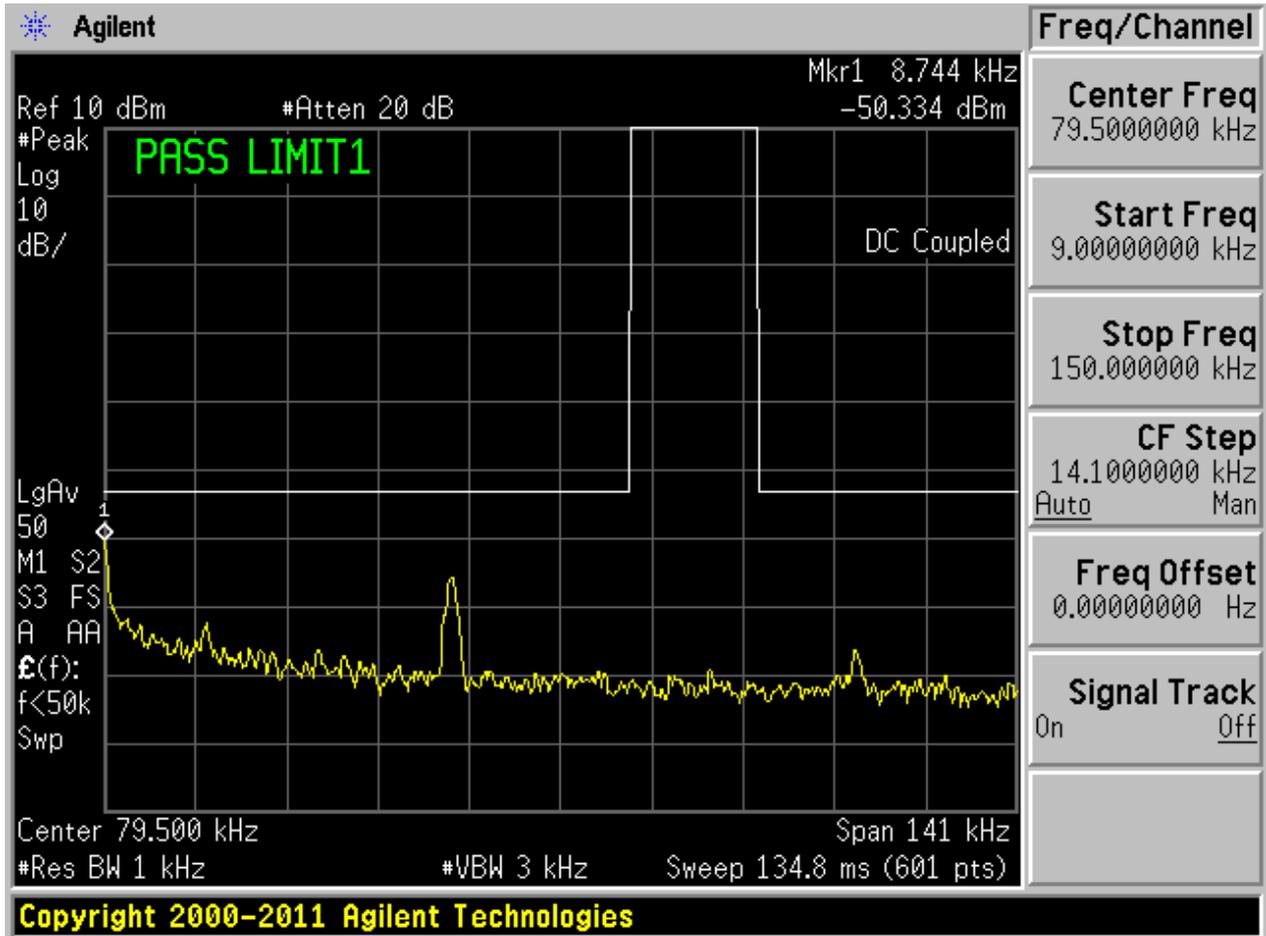


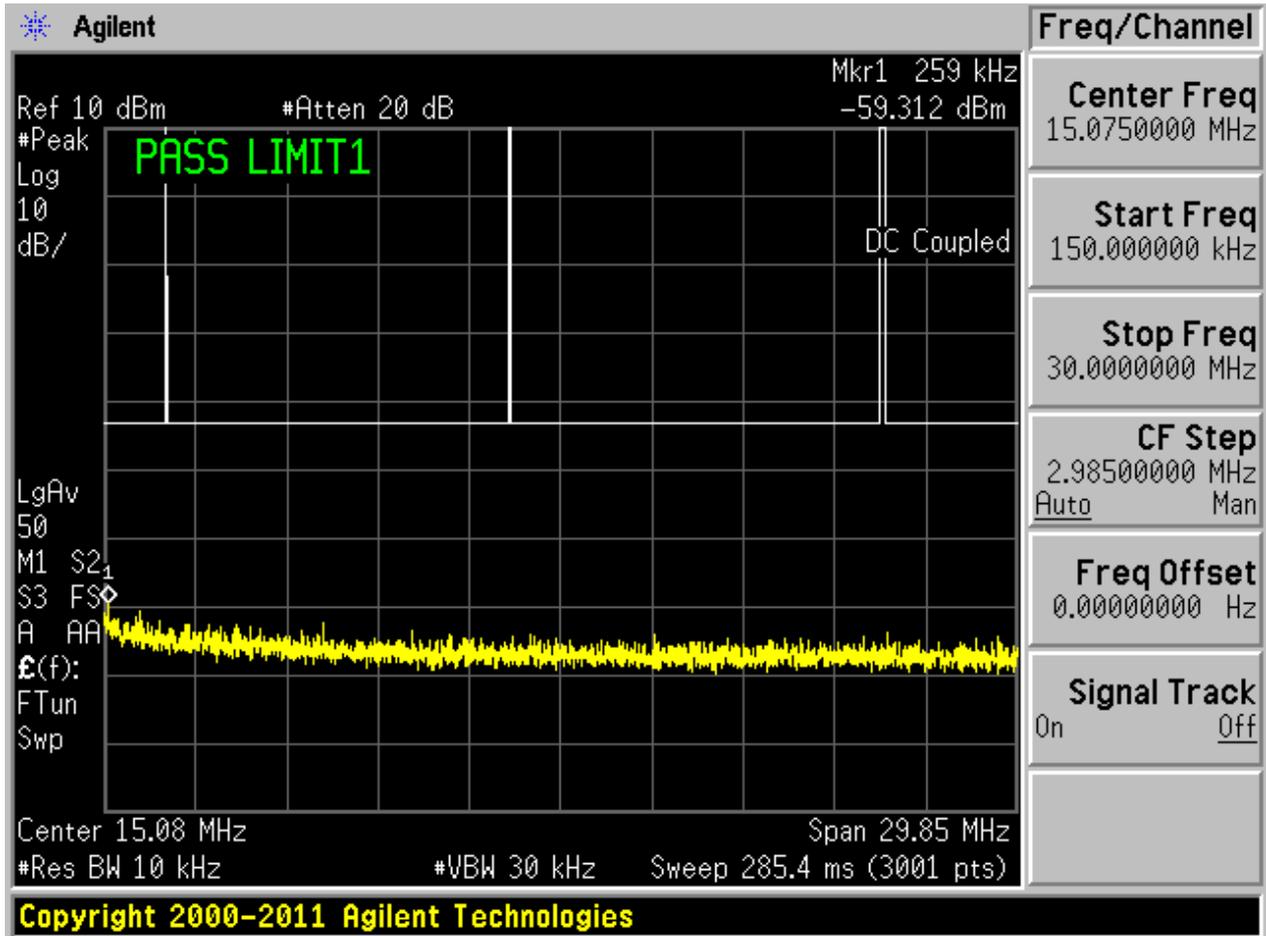
2.1011N0-40B-Ant1

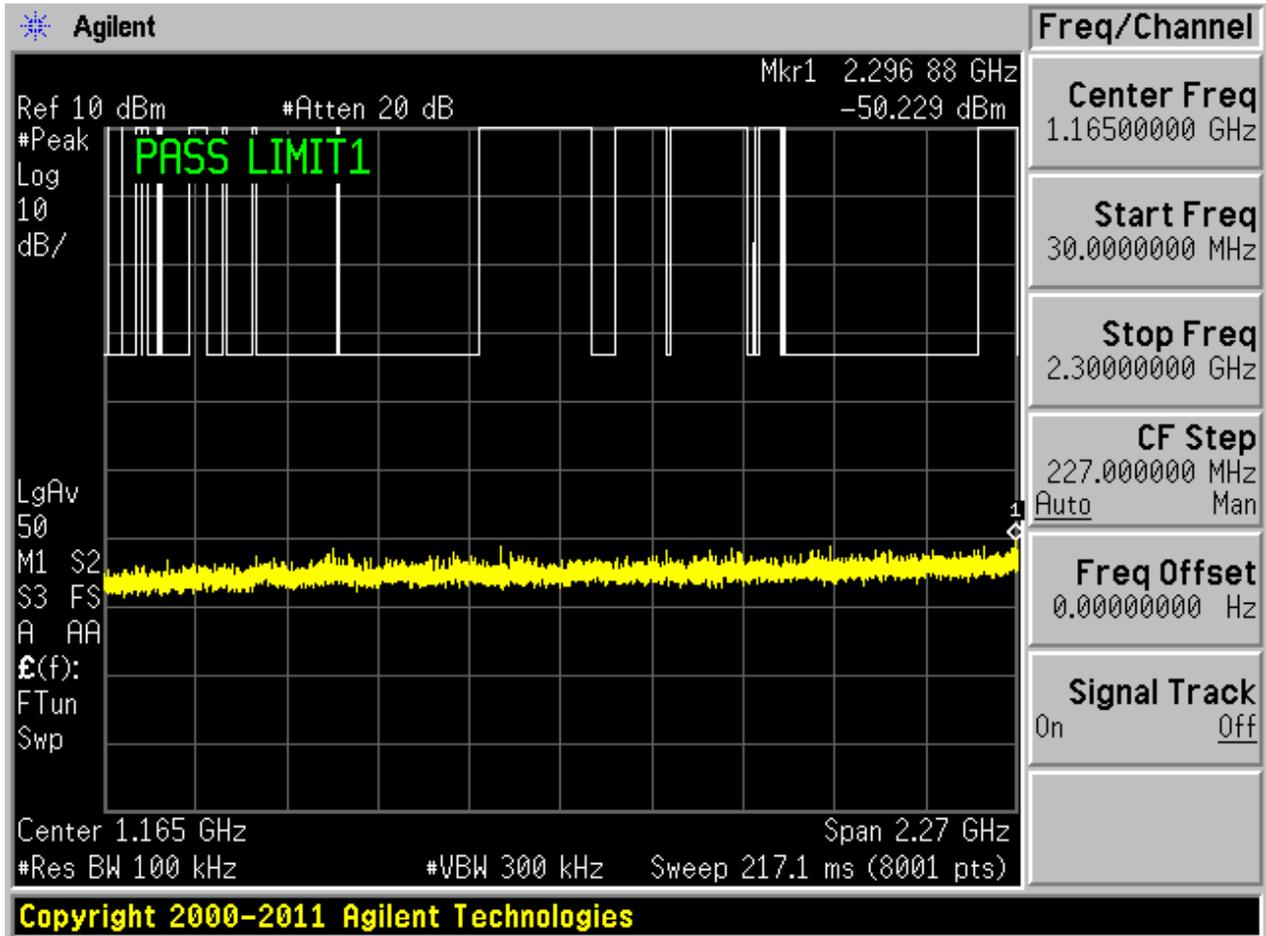
2.10.1 Pref

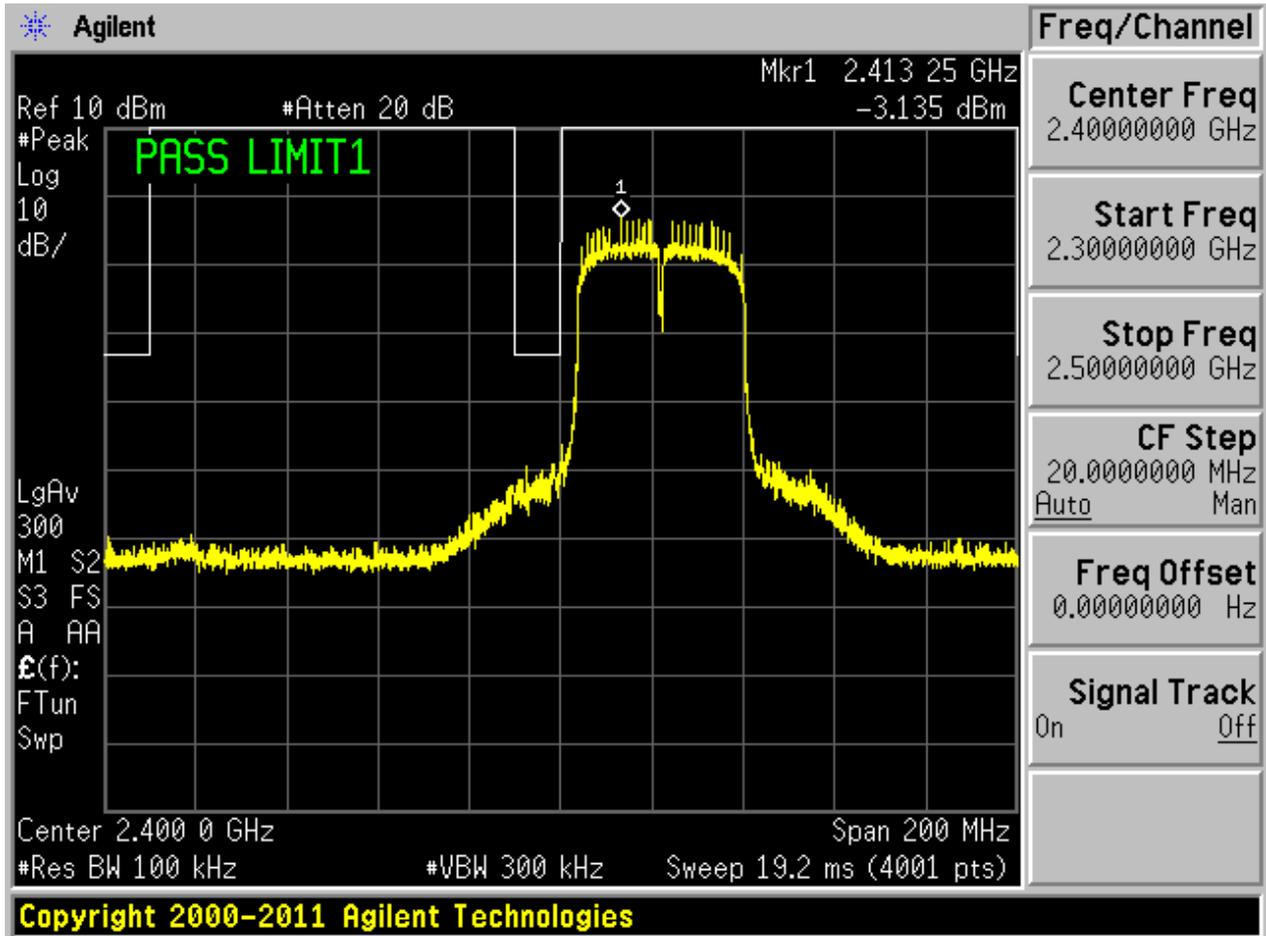


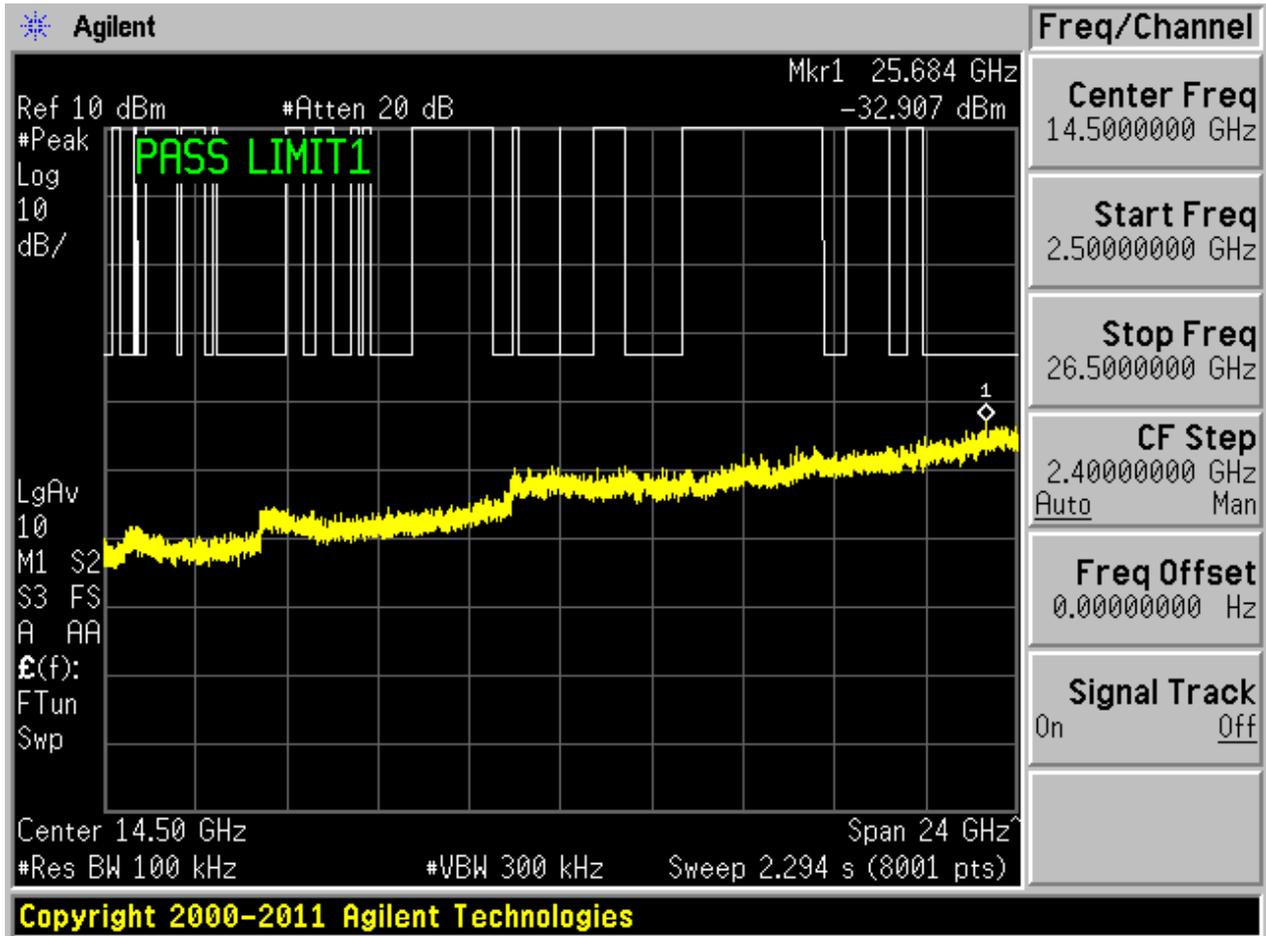
2.10.2 Puw





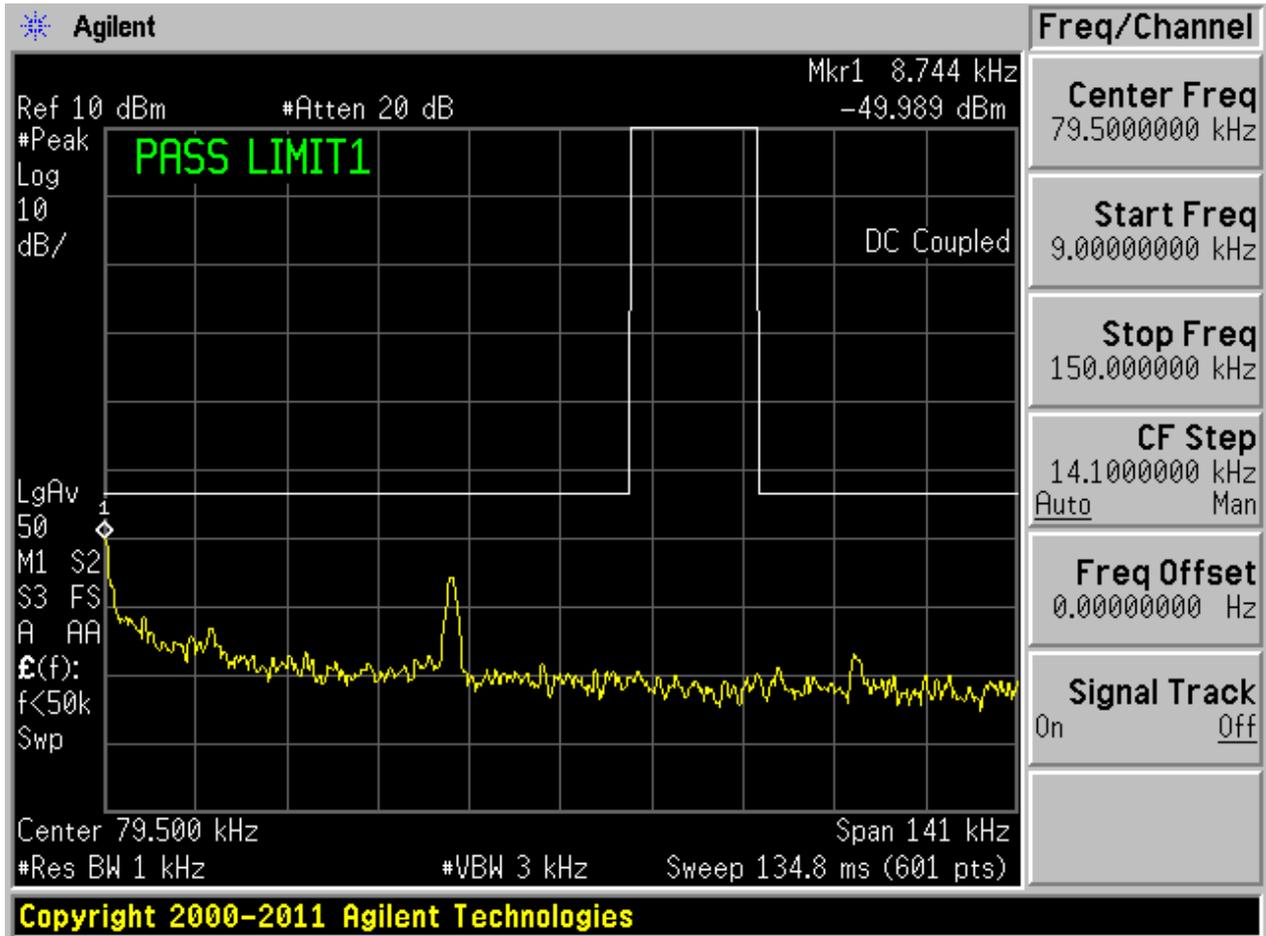


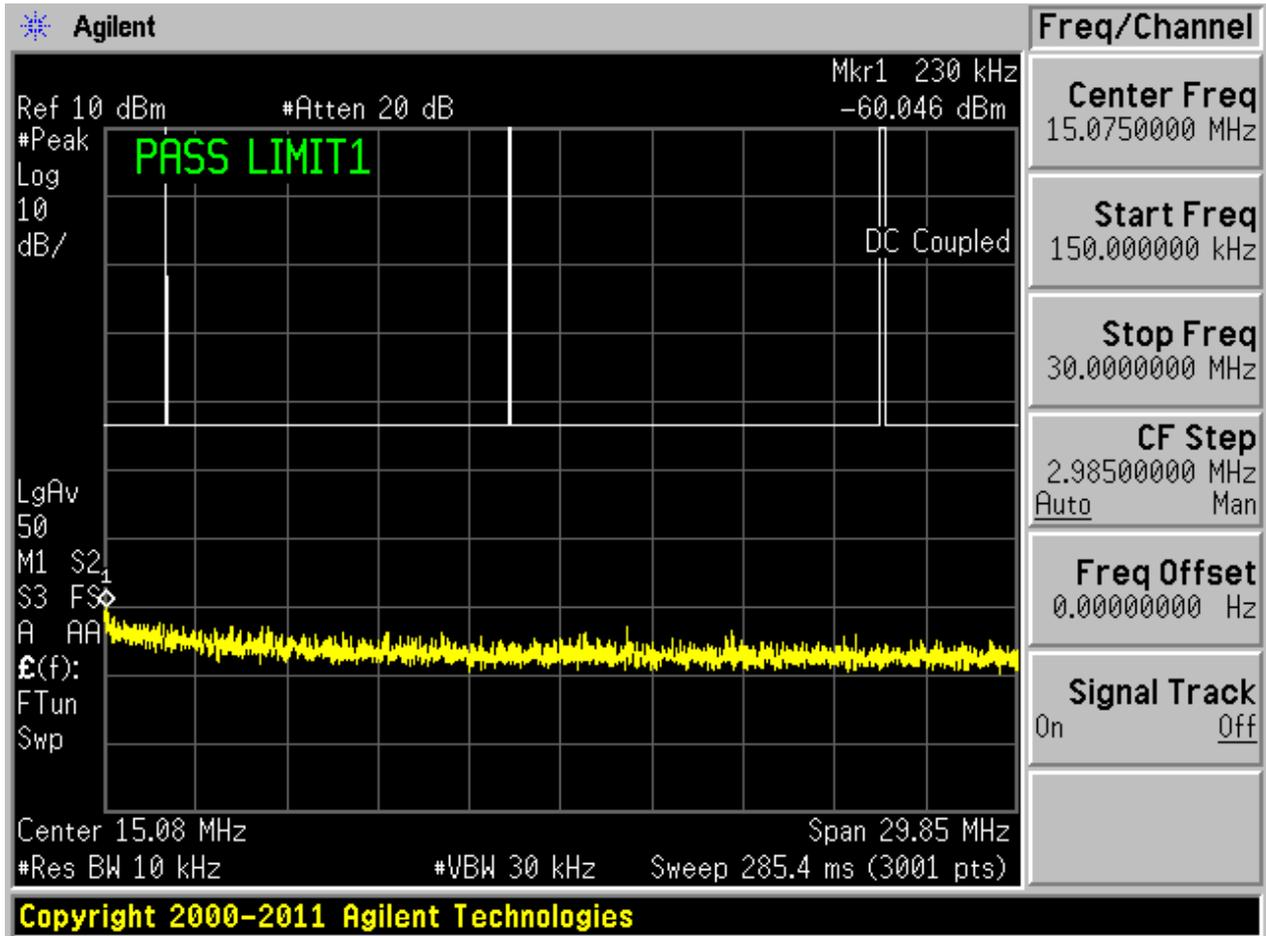


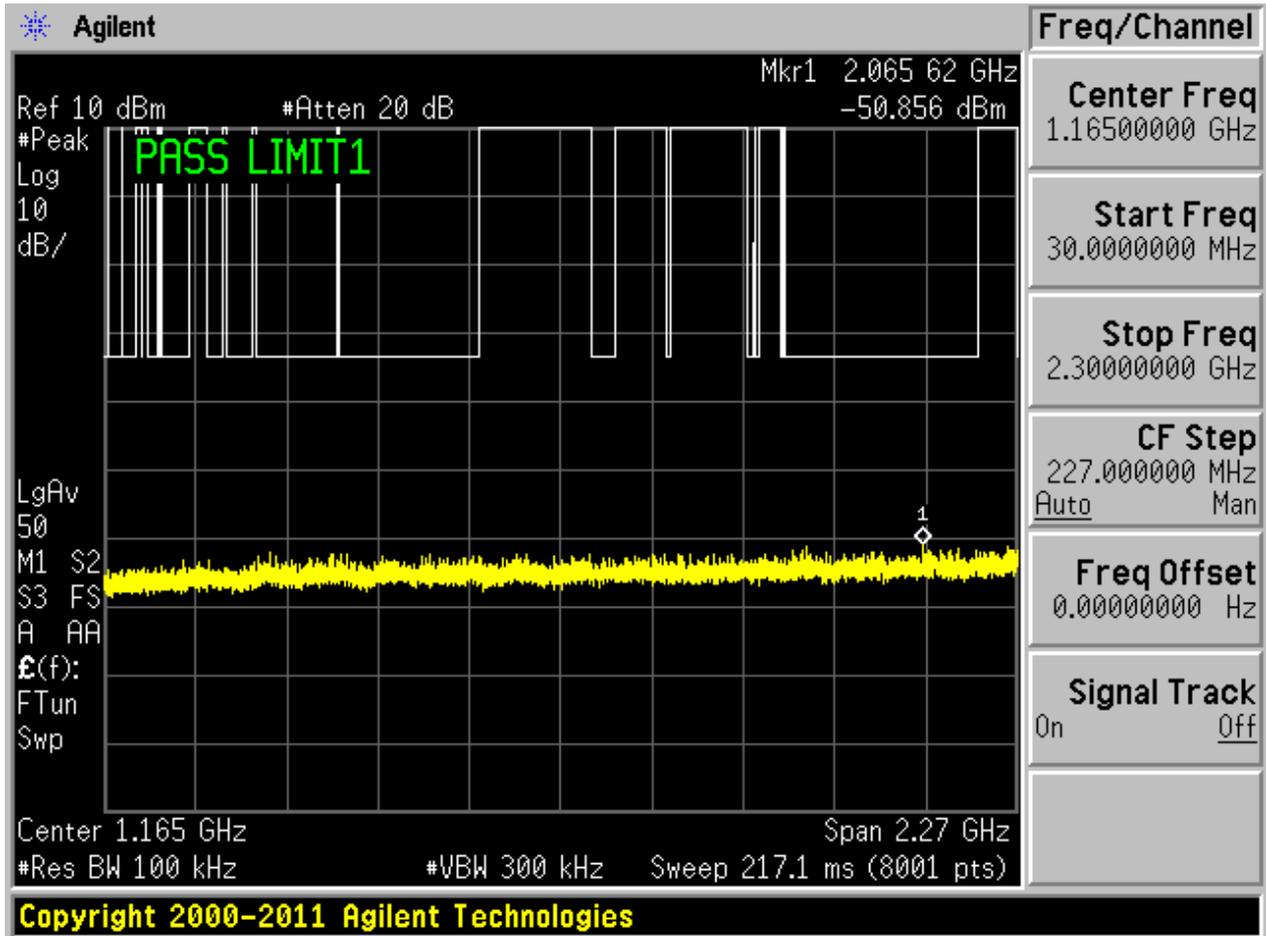


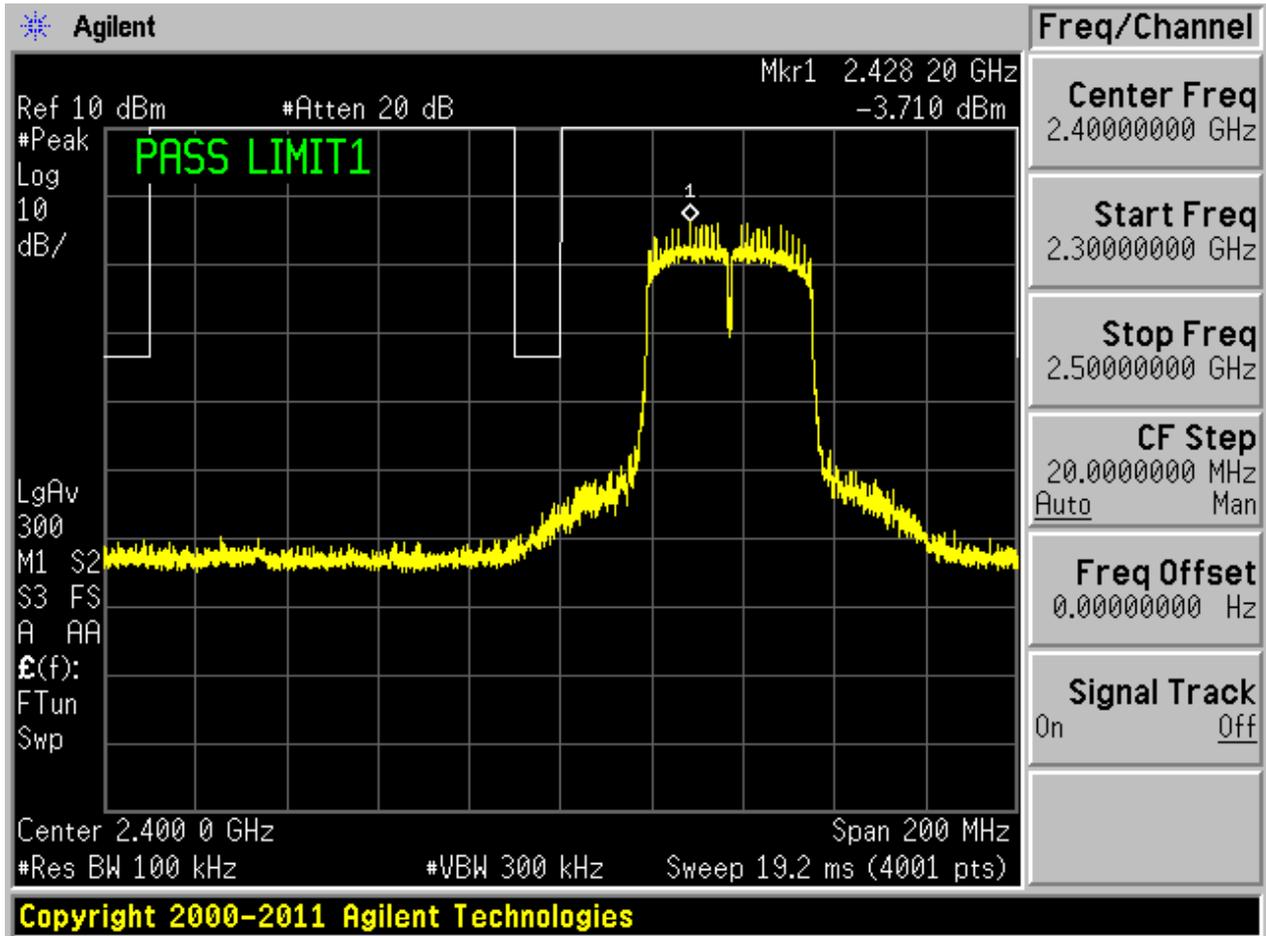
2.1111N0-40M-Ant1

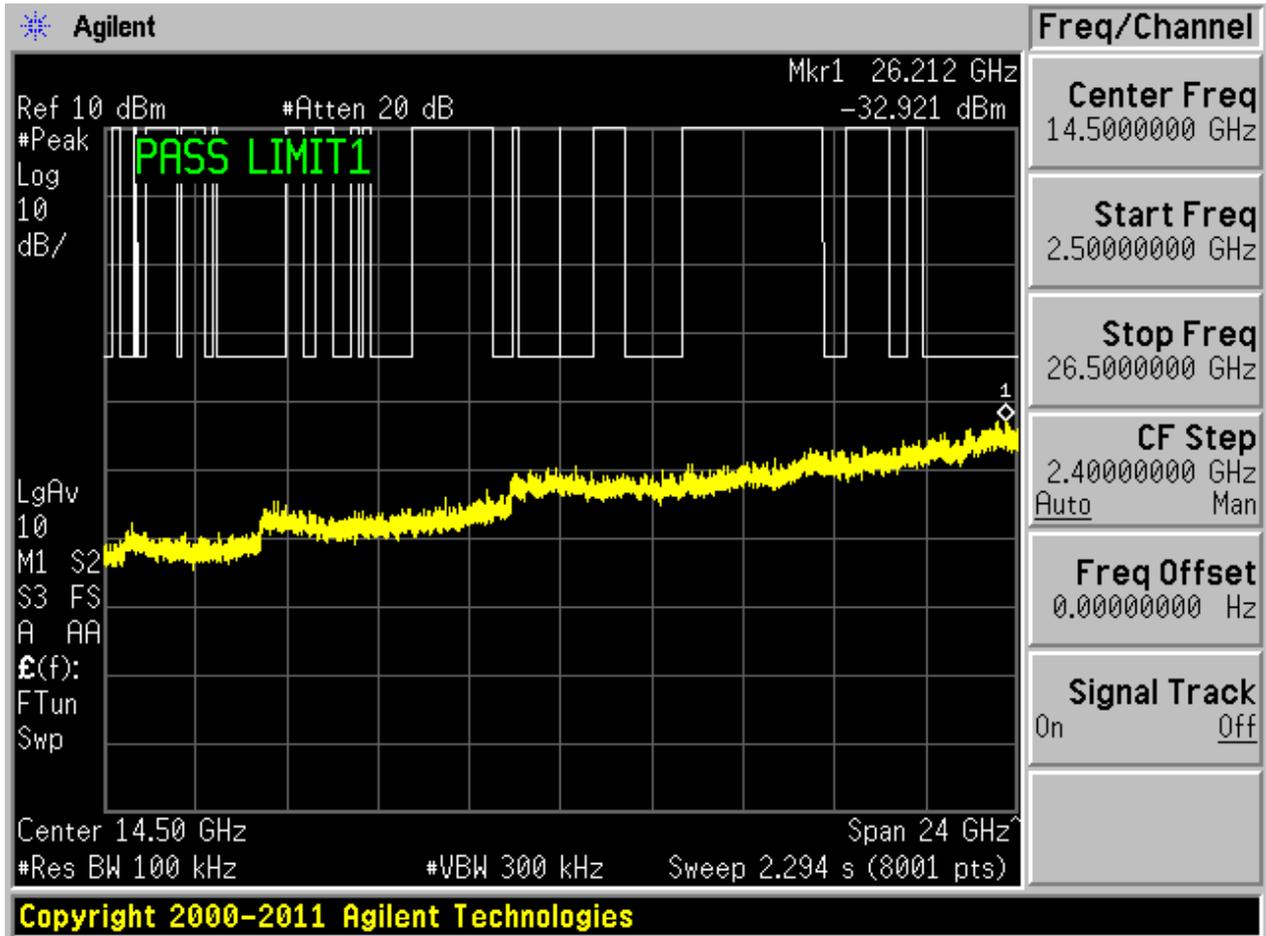
2.11.1 Pref





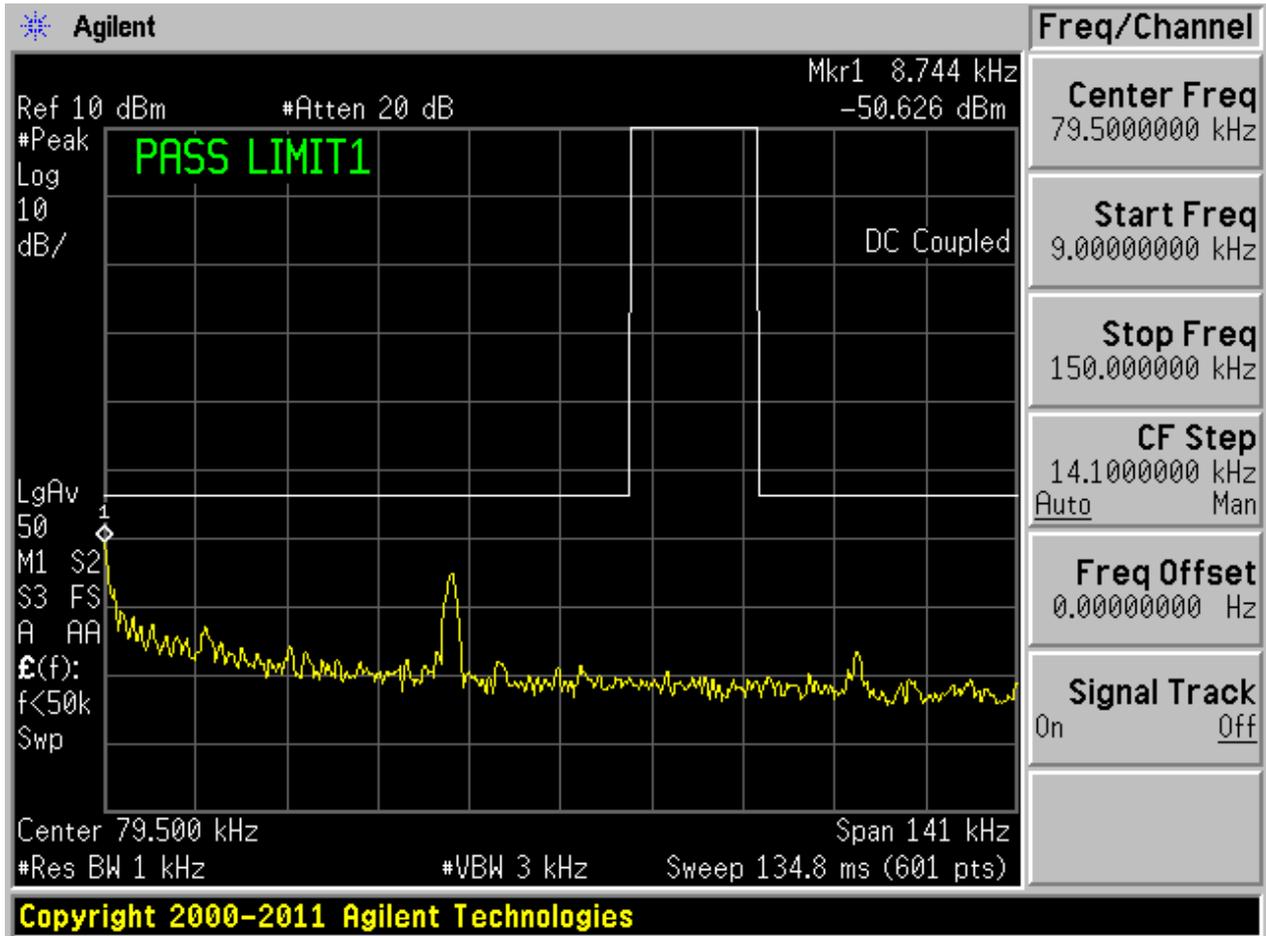


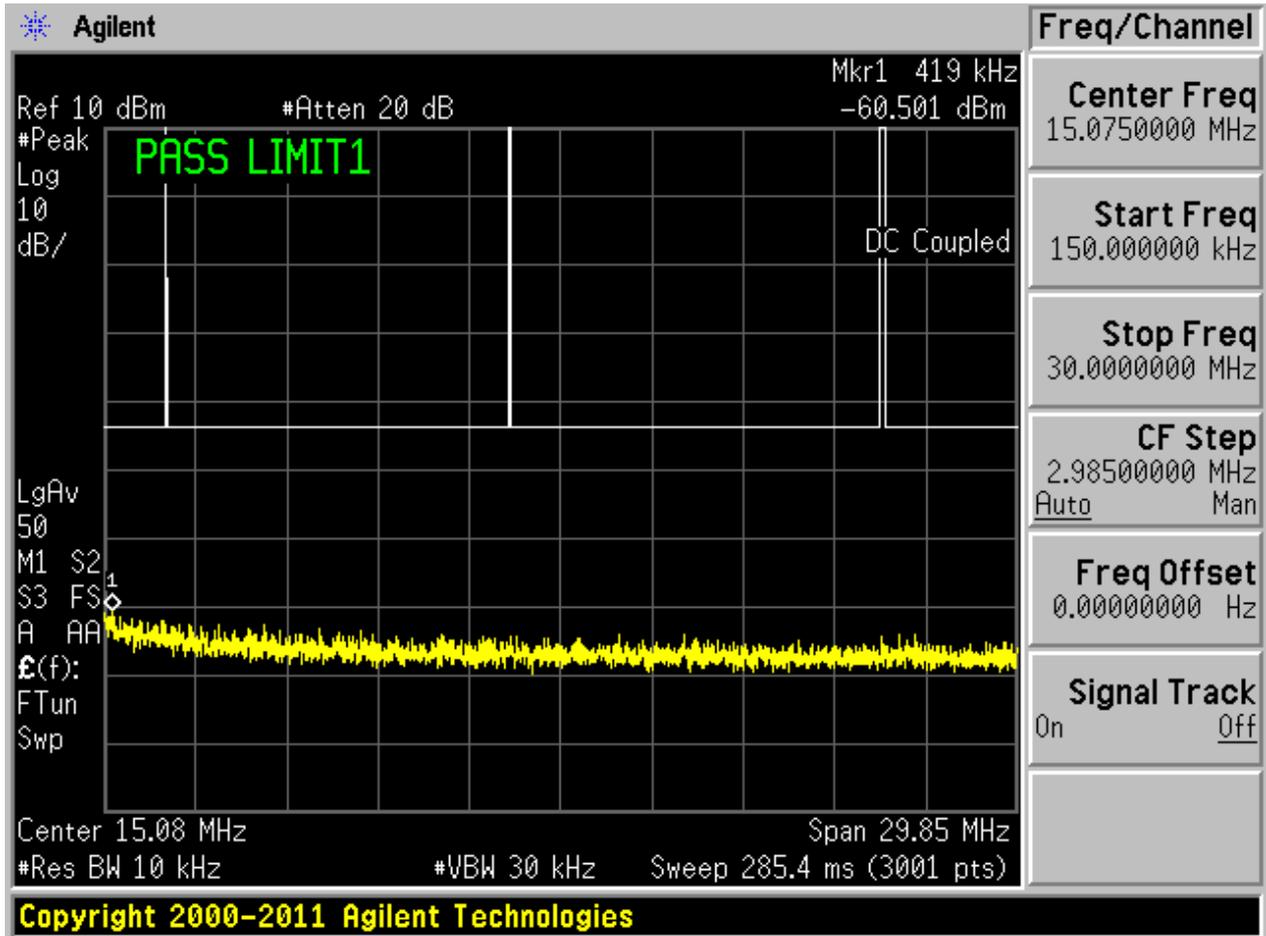


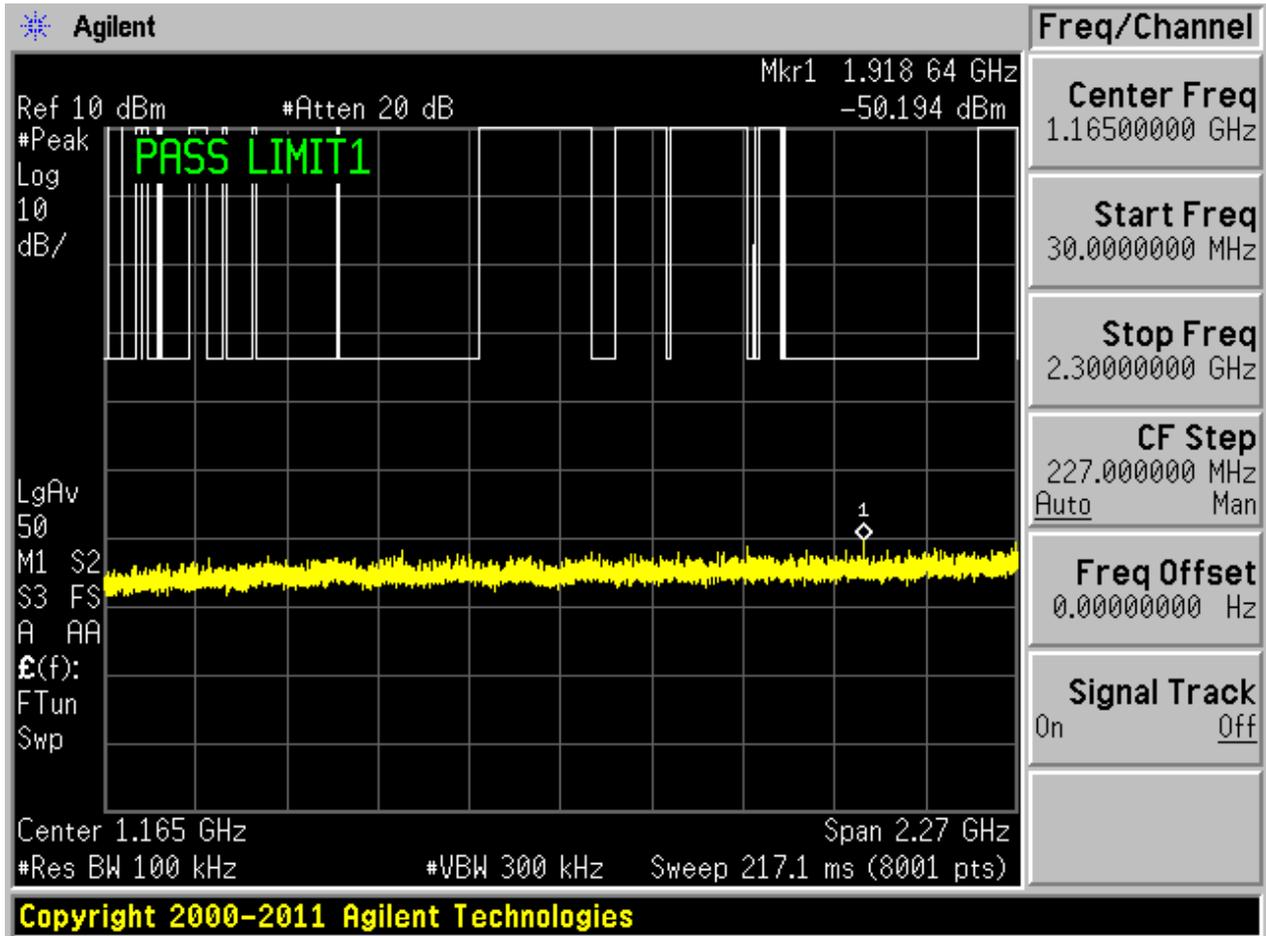


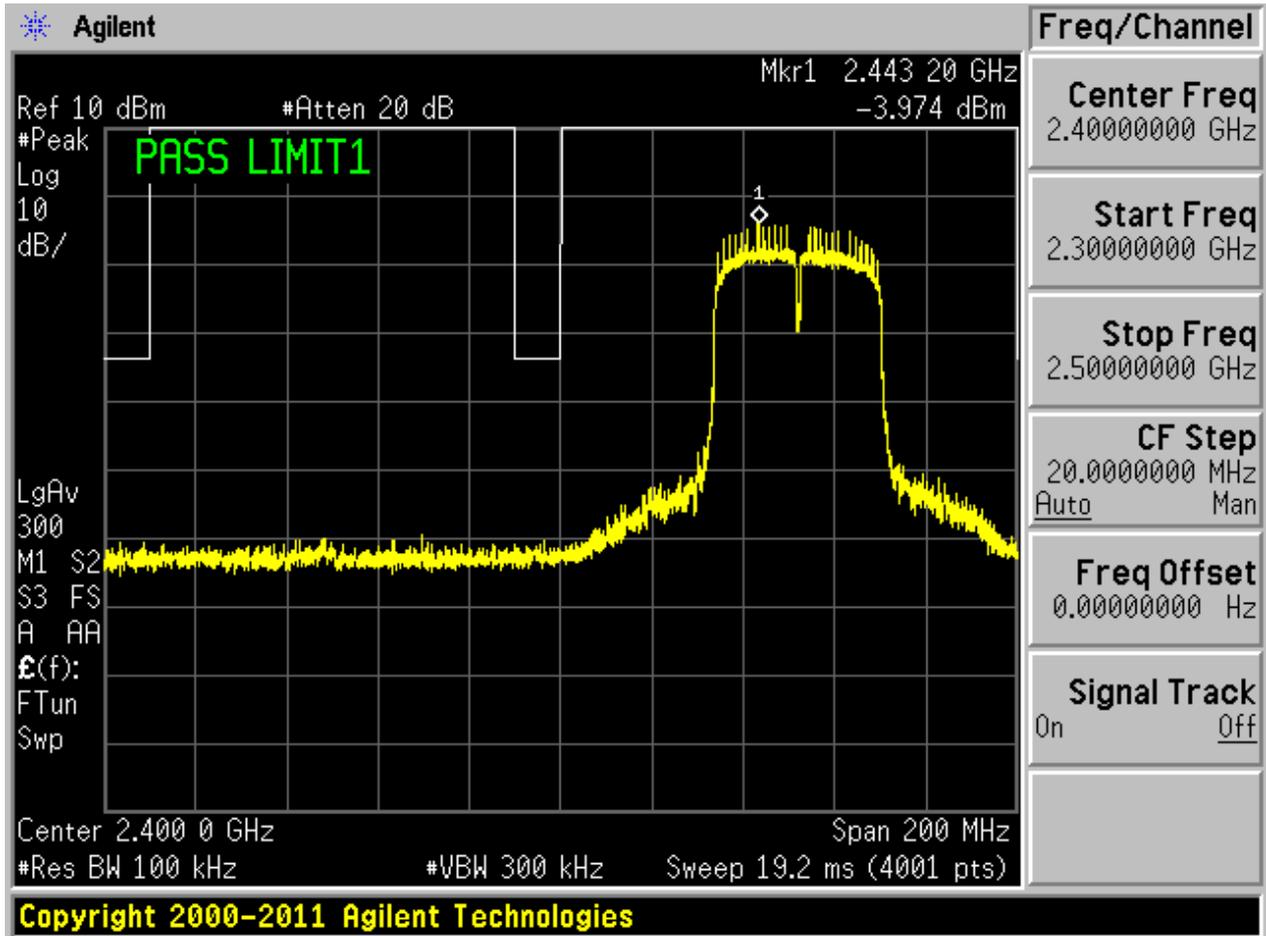
2.1211N0-40T-Ant1

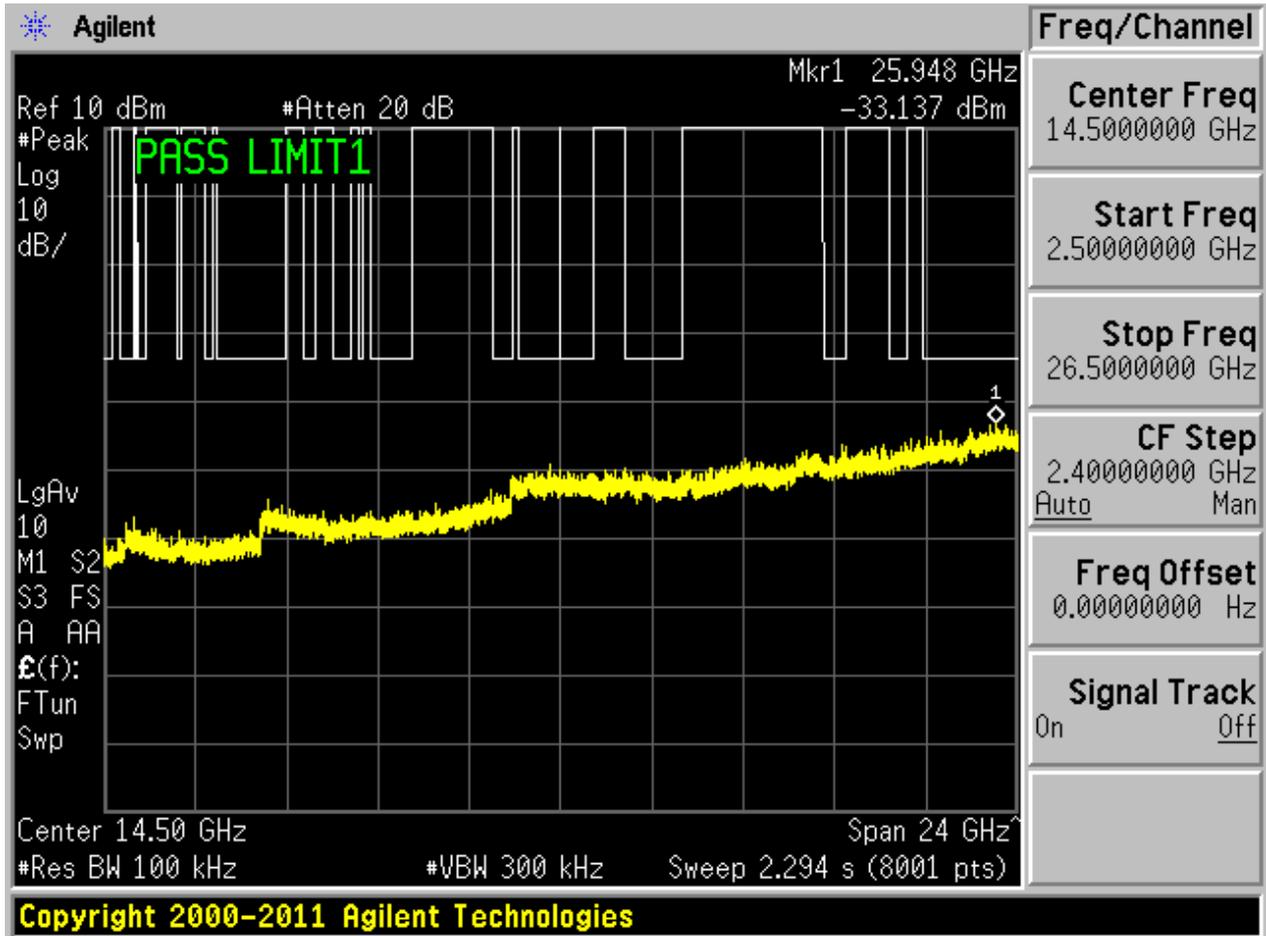
2.12.1 Pref













Annex F: Unwanted Emissions into Restricted Frequency Bands

The whole testing range is from “30 MHz to 26.5 GHz (10th harmonics)” is divided into 4 parts according to the test site settings, which are:

- (Part 1): Test range of “30 MHz to 1 GHz”,
- (Part 2): Test range of “1 GHz to 3 GHz”,
- (Part 3): Test range of “3 GHz to 18 GHz”, and
- (Part 4): Test range of “18 GHz to 26.5 GHz”.

For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at all chains to get a final result, due to the radiated measurement method. The result is the directly measured sum of each chain.

In this Annex, only the test results and plots under the worst case can be reported. In the result table, the “< Limit” denotes that “Not found obvious spikes or see marked spikes on plots and listed emissions records”.

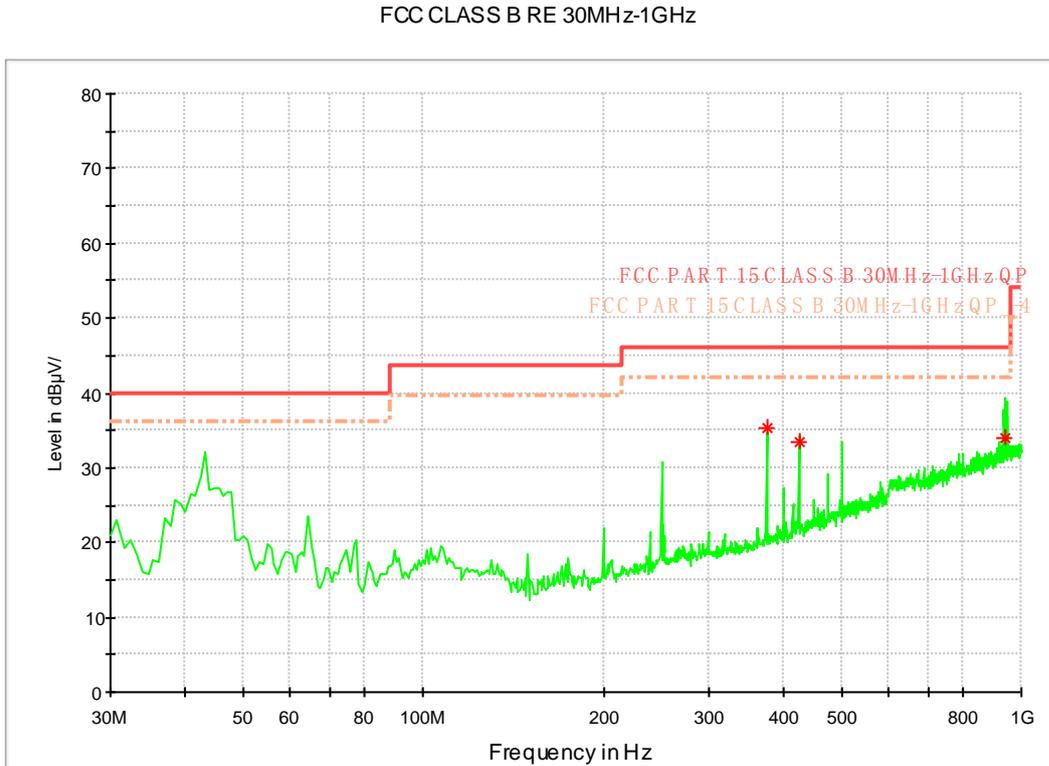
1 Result Table

Test Range	EUT Conf.	Emissions	Verdict
30 MHz to 1 GHz	Worst Case (11B1-B-Ant1)	< Limit	Pass
1 GHz to 3 GHz	Worse Case (11B1-B-Ant1)	< Limit	Pass
	Worse Case (11B1-M-Ant1)	< Limit	Pass
	Worse Case (11B1-T-Ant1)	< Limit	Pass
	Worse Case (11G6-B-Ant1)	< Limit	Pass
	Worse Case (11G6-M-Ant1)	< Limit	Pass
	Worse Case (11G6-T-Ant1)	< Limit	Pass
3 GHz to 18 GHz	Worse Case (11B1-B-Ant1)	< Limit	Pass
	Worse Case (11B1-M-Ant1)	< Limit	Pass
	Worse Case (11B1-T-Ant1)	< Limit	Pass
	Worse Case (11G6-B-Ant1)	< Limit	Pass
	Worse Case (11G6-M-Ant1)	< Limit	Pass
	Worse Case (11G6-T-Ant1)	< Limit	Pass
18 GHz to 26.5 GHz	Worst Case (11B1-B-Ant1)	< Limit	Pass

1 Result Plot

1.1 Test range of “30 MHz to 1 GHz”

1.1.1 Worst Case (11B1-B-Ant1)

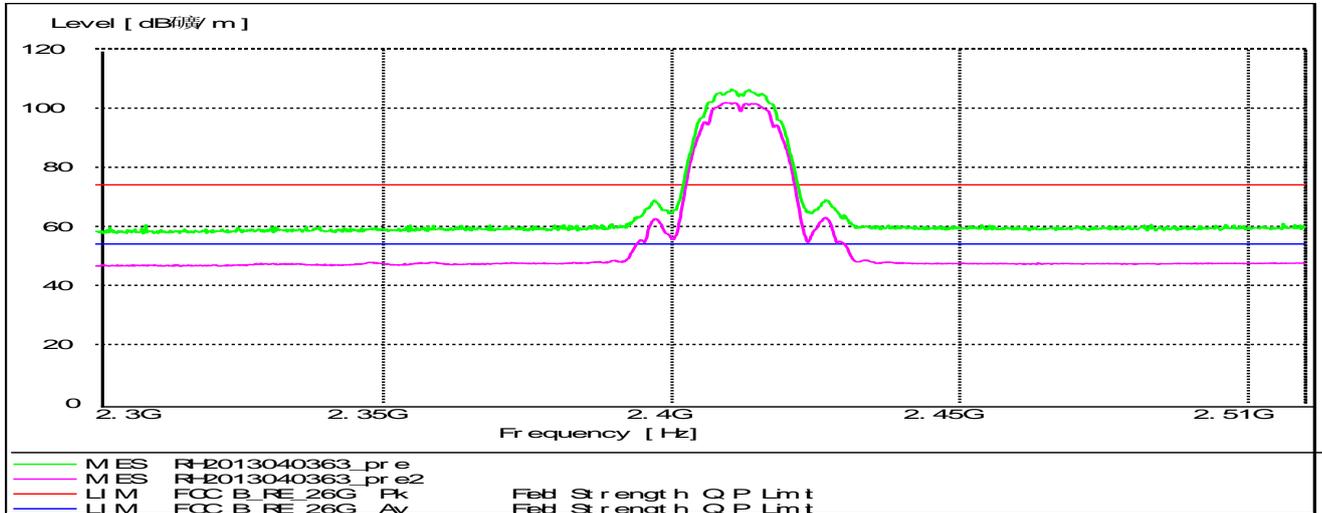


Final Result 1

Frequency (MHz)	QuasiPeak (dBµ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµ V/m)
374.999360	35.3	120.000	100.0	H	267.0	18.0	10.7	46.0
425.001280	33.3	120.000	100.0	H	51.0	19.3	12.7	46.0
937.378560	34.1	120.000	189.0	H	359.0	27.2	11.9	46.0

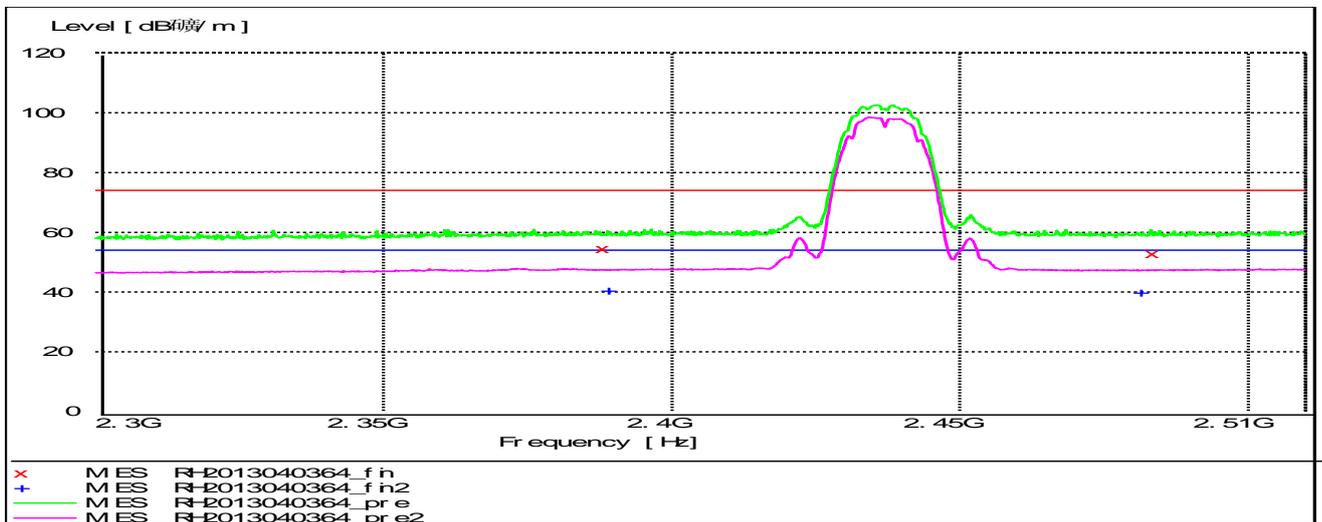
1.2 Test range of "1 GHz to 3 GHz"

1.2.1 Worse Case (11B1-B-Ant1)



NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

1.2.2 Worse Case (11B1-M-Ant1)



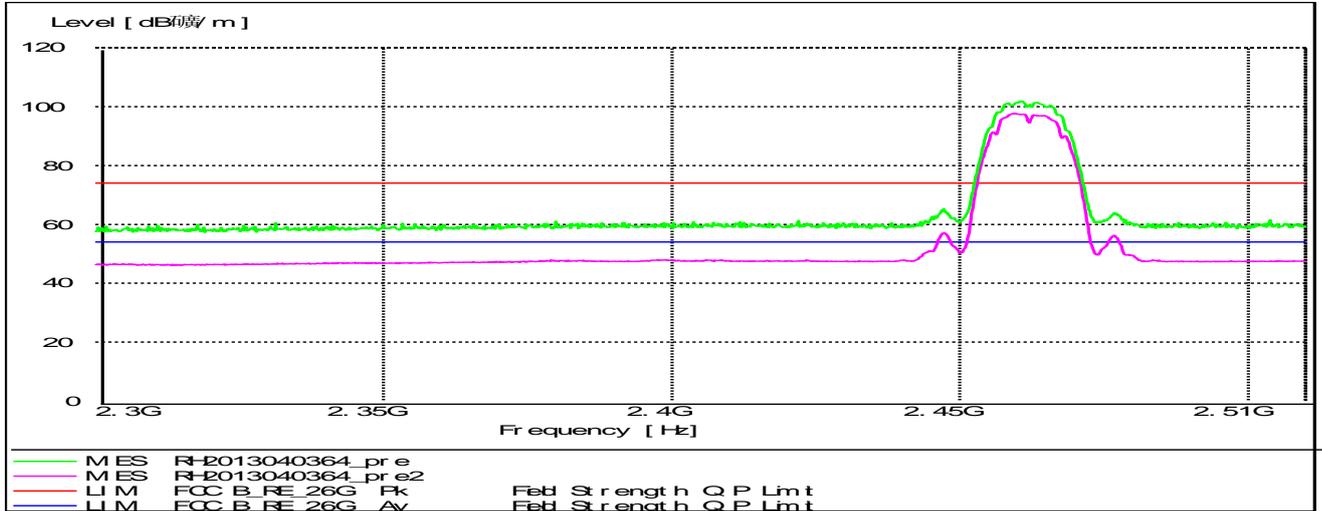
MEASUREMENT RESULT: "RH2013040364_fin"

2013-4-3 14:36

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
2388.048000	54.40	34.8	74.0	19.6	PK	111.0	358.00	HORIZONTAL
2483.456000	52.70	35.1	74.0	21.3	PK	100.0	156.00	HORIZONTAL

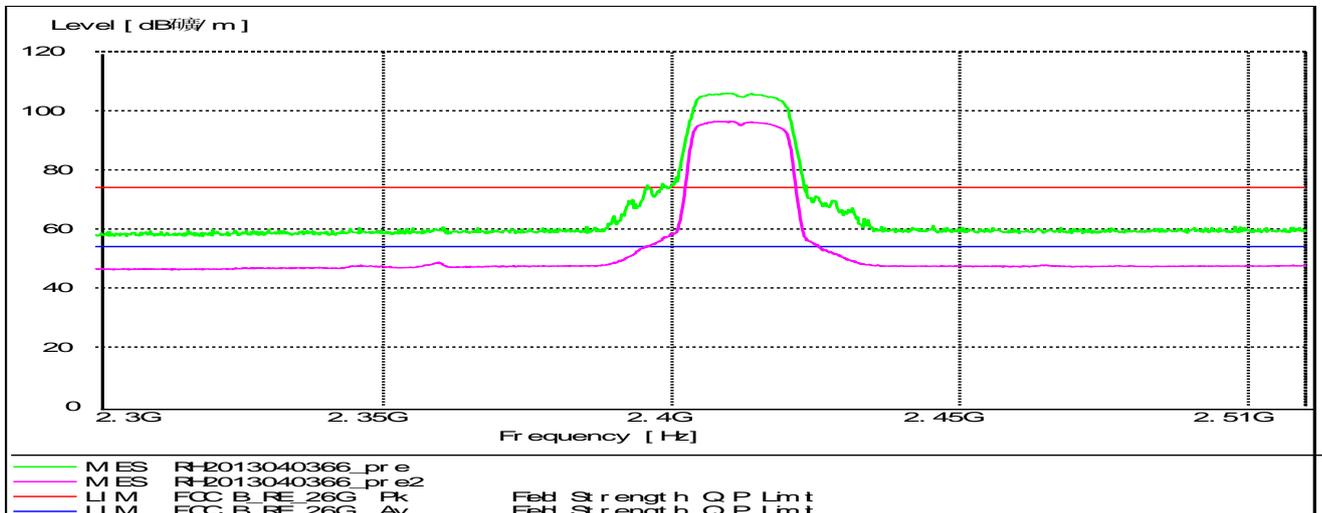
NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

1.2.3 Worse Case (11B1-T-Ant1)



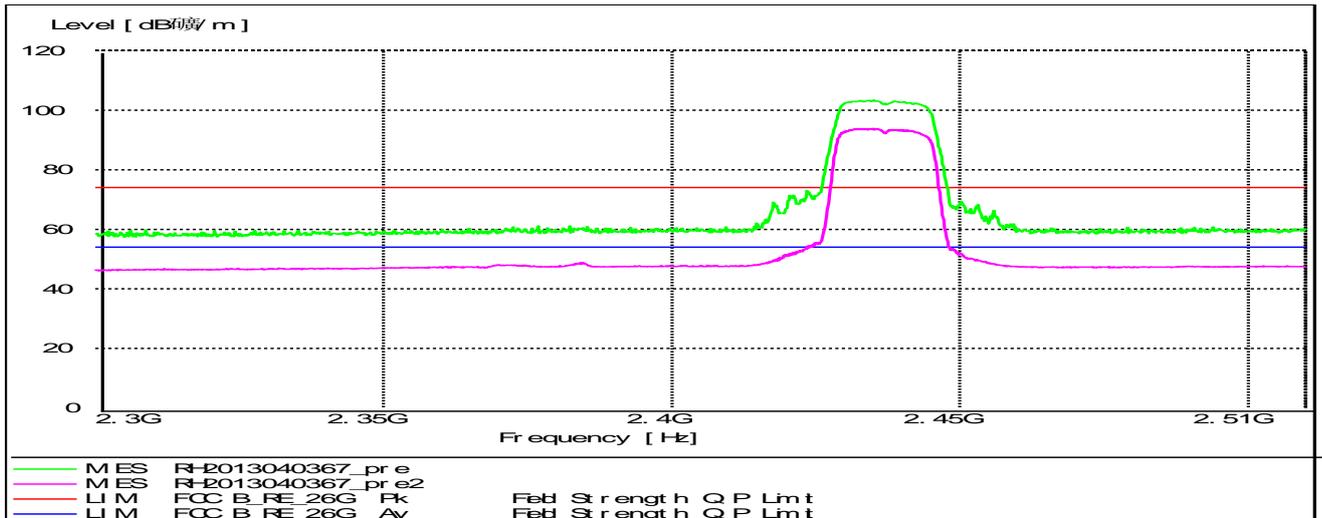
NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

1.2.4 Worse Case (11G6-B-Ant1)



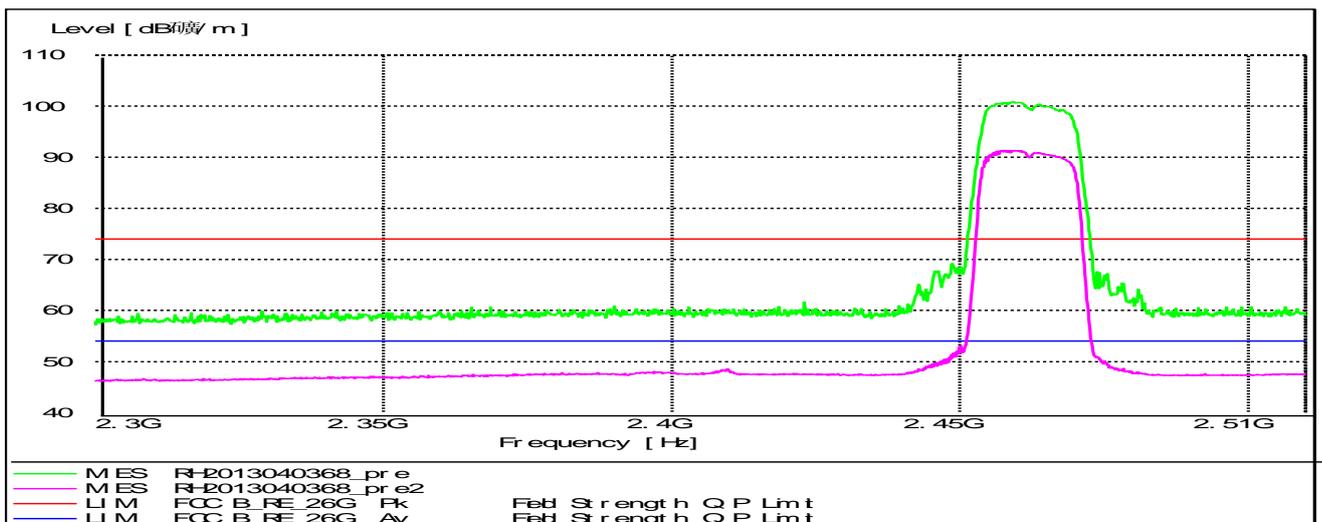
NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

1.2.5 Worse Case (11G6-M-Ant1)



NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

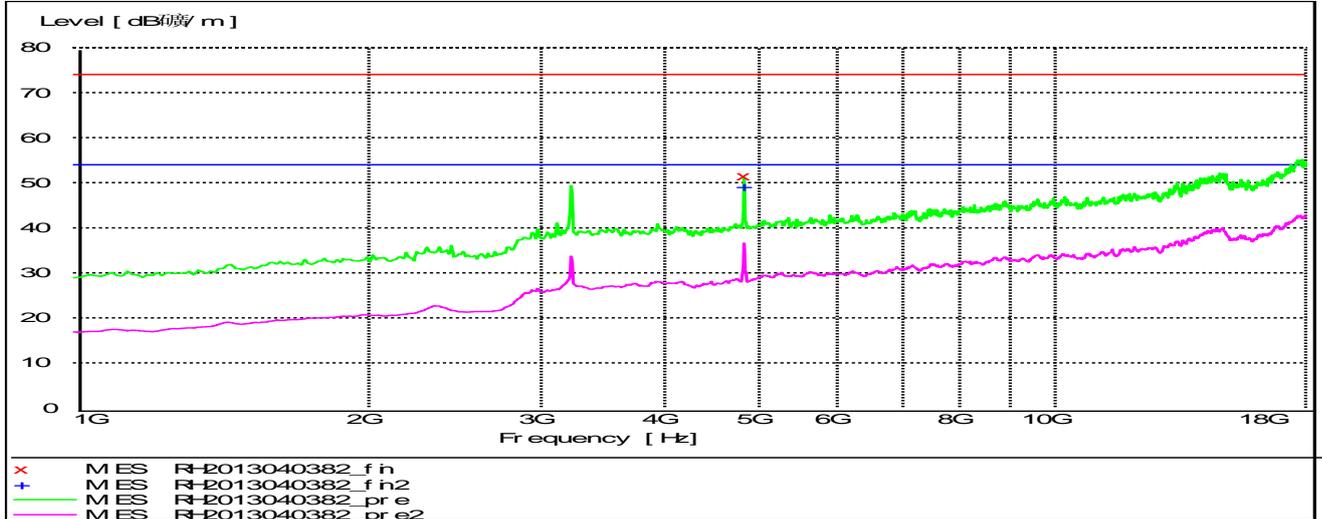
1.2.6 Worse Case (11G6-T-Ant1)



NOTE: The fundamental emission is not located in near-by restricted bands 2300 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz.

1.3 Test range of “3 GHz to 18 GHz”

1.3.1 Worse Case (11B1-B-Ant1)

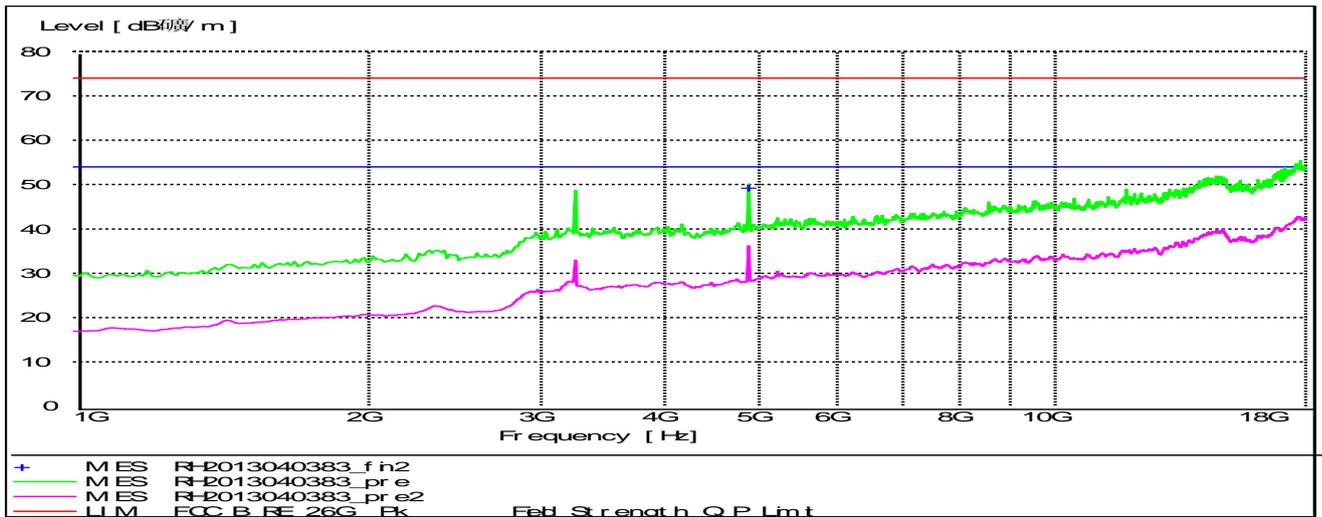


MEASUREMENT RESULT: "RH2013040382_fin"

2013-4-3 15:08

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
4824.100000	51.50	-2.5	74.0	22.5	PK	103.0	316.00	HORIZONTAL

1.3.2 Worse Case (11B1-M-Ant1)

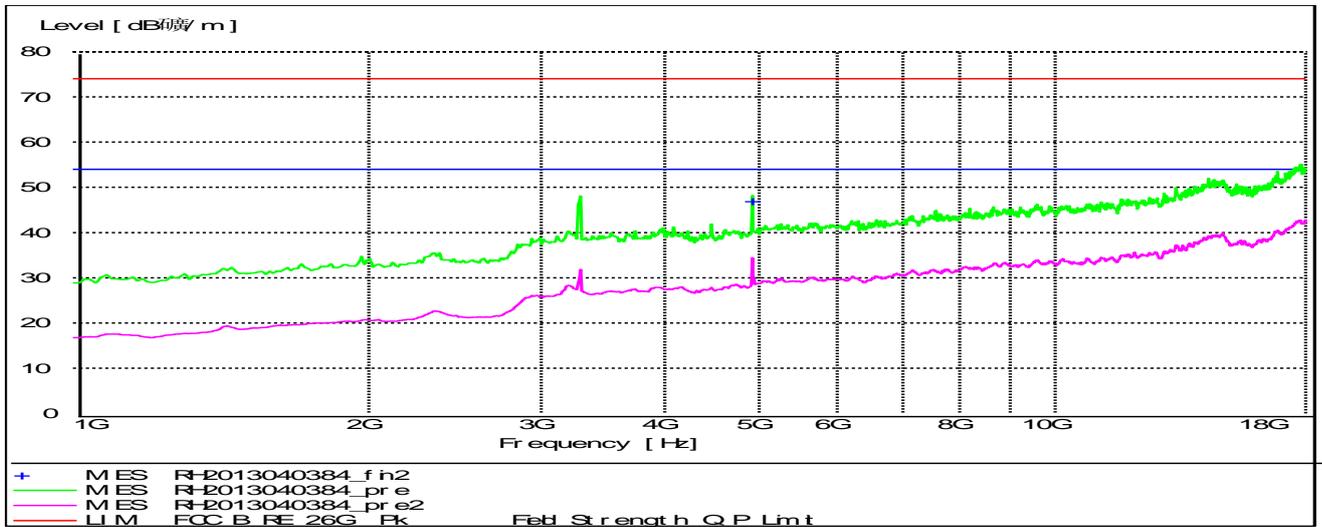


MEASUREMENT RESULT: "RH2013040383_fin2"

2013-4-3 15:15

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
4874.000000	49.20	-2.3	54.0	4.8	AV	103.0	314.00	HORIZONTAL

1.3.3 Worse Case (11B1-T-Ant1)

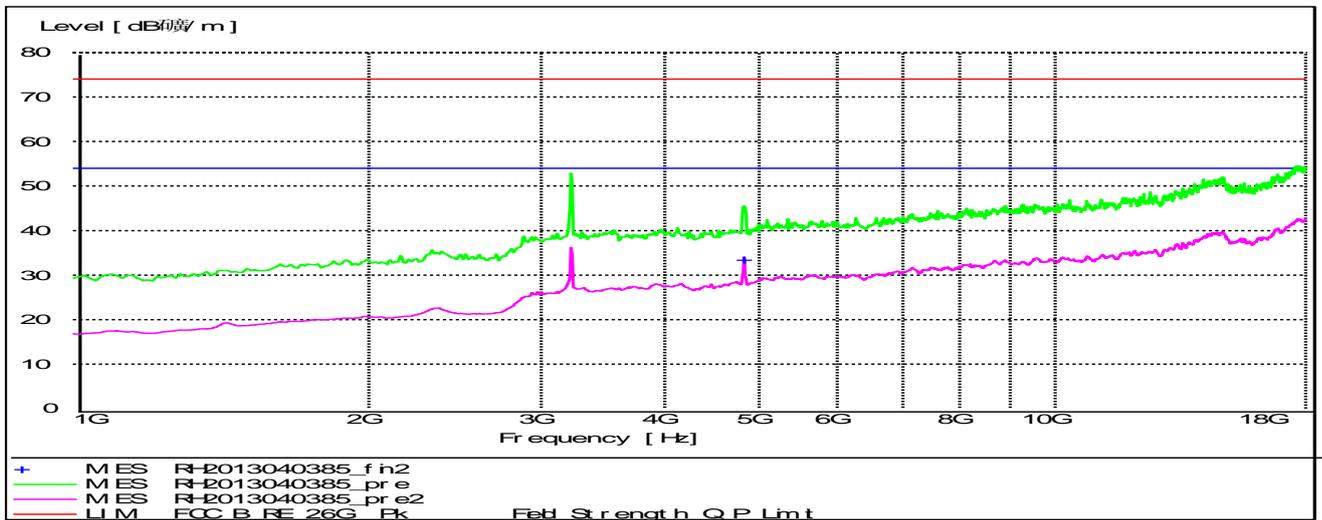


MEASUREMENT RESULT: "RH2013040384_fin2"

2013-4-3 15:22

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB	dB	cm	deg	deg
4923.800000	47.00	-2.0	54.0	7.0	AV	112.0	319.00	HORIZONTAL

1.3.4 Worse Case (11G6-B-Ant1)



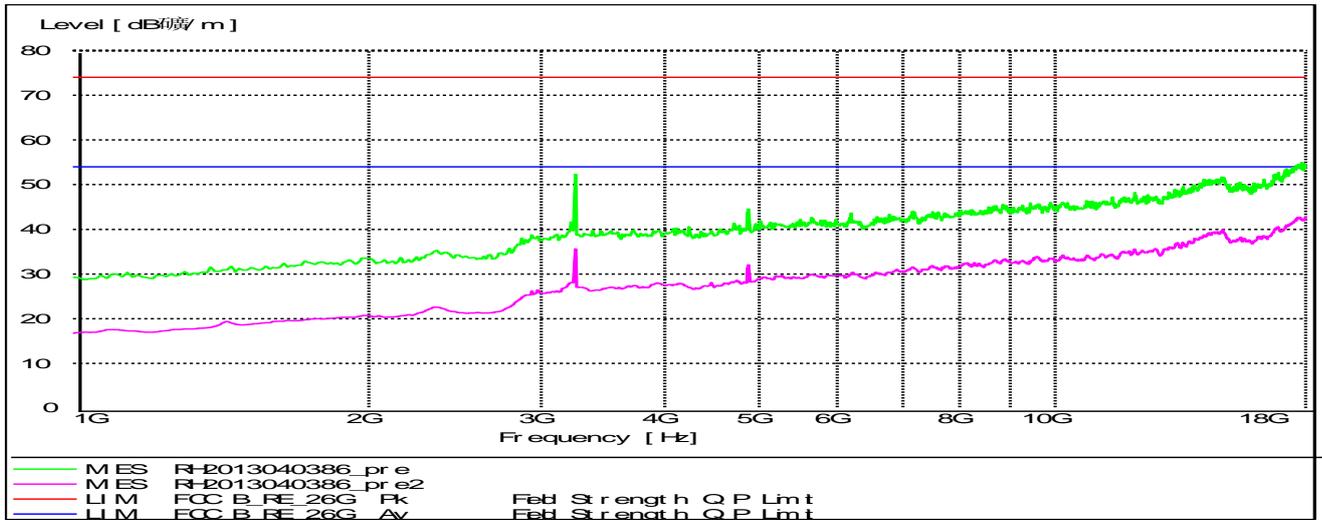
MEASUREMENT RESULT: "RH2013040385_fin2"

2013-4-3 15:29

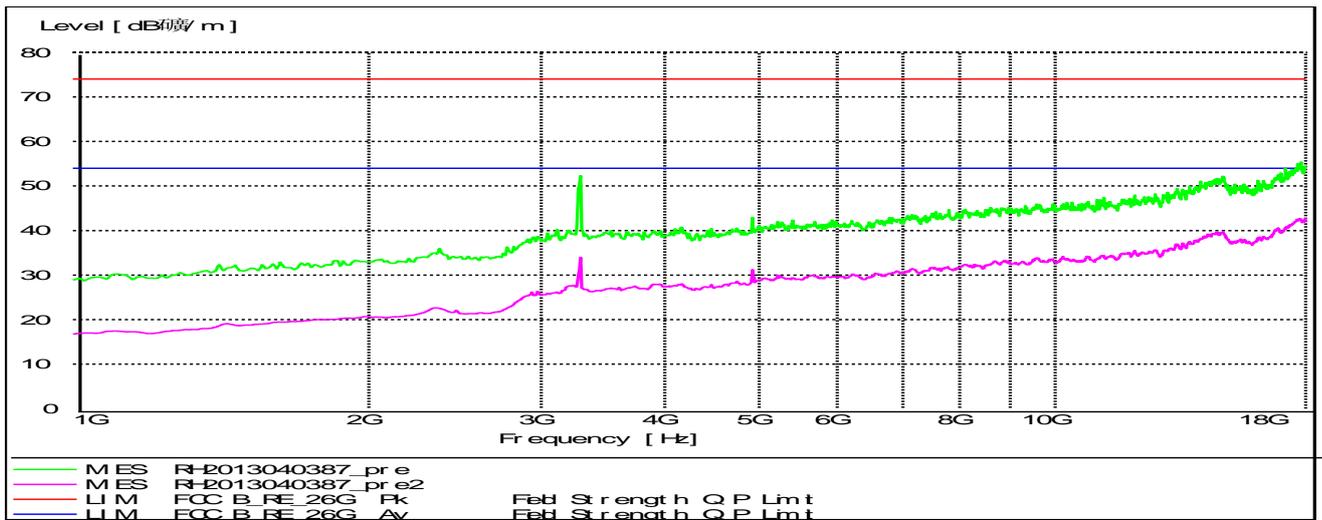
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBµV/m	dB	dBµV/m	dB	dB	cm	deg	deg
4823.600000	33.40	-2.5	54.0	20.6	AV	110.0	312.00	HORIZONTAL



1.3.5 Worse Case (11G6-M-Ant1)



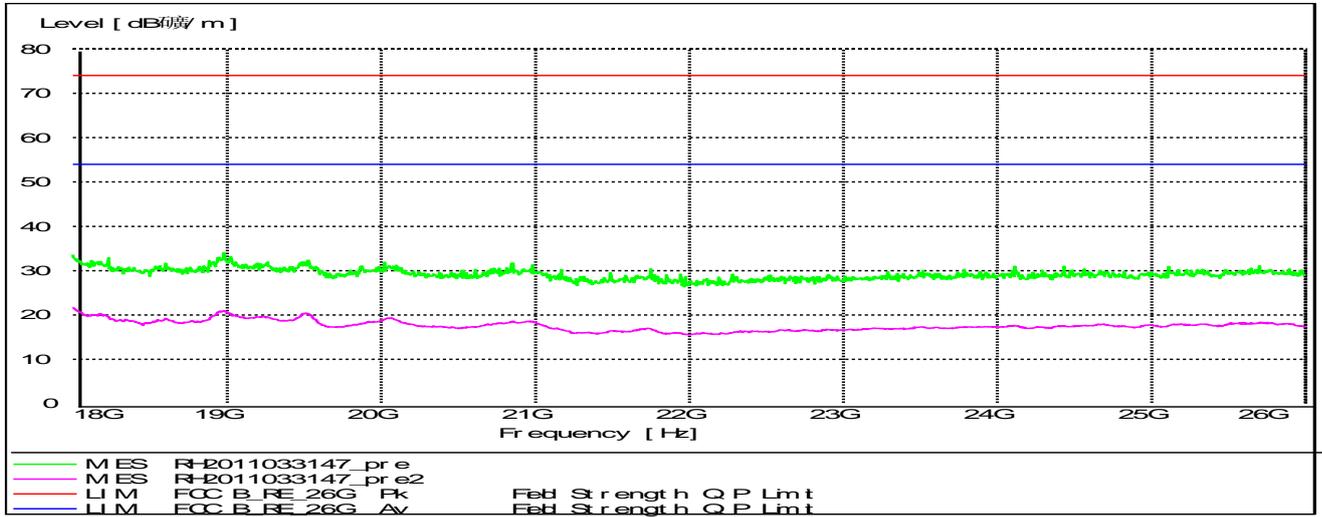
1.3.6 Worse Case (11G6-T-Ant1)





1.4 Test range of "18 GHz to 26.5 GHz"

1.4.1 Worst Case (11B1-B-Ant1)





Annex G: AC Power Line Conducted Emissions

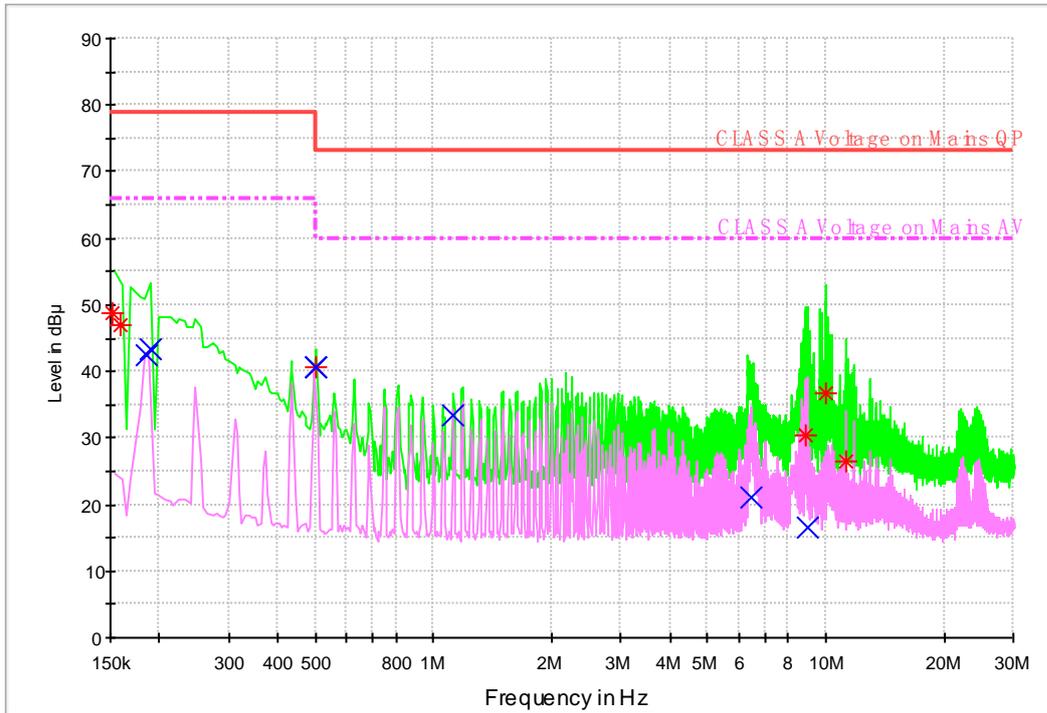


In this Annex, only the test results and plots under the worst case can be reported.

1 Result Table

EUT Conf.	Maximum Emissions	Verdict
11B1-B-Ant1	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

2 Result Plot



Final Result 1

Frequency (MHz)	QuasiPeak (dBµ V)	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)
0.150917	48.7	N	9.7	30.3	79.0
0.158272	47.1	N	9.7	31.9	79.0
0.500333	40.7	N	9.7	32.3	73.0
8.920576	30.4	N	9.9	42.6	73.0
9.967736	36.7	N	9.9	36.3	73.0
11.253304	26.5	N	10.0	46.6	73.0

Final Result 2

Frequency (MHz)	CAverage (dBµ V)	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)
0.185024	42.6	N	9.7	23.4	66.0
0.189113	43.5	N	9.7	22.5	66.0
0.499252	40.7	N	9.7	25.3	66.0
0.499500	40.7	N	9.7	25.3	66.0
1.122308	33.6	N	9.7	26.4	60.0
6.445714	21.0	N	9.8	39.0	60.0
8.929946	16.6	N	9.9	43.4	60.0

NOTE: Though the limits used in plot are not that required by FCC Part 15.207, the measured results still comply with the limit of FCC Part 15.207.