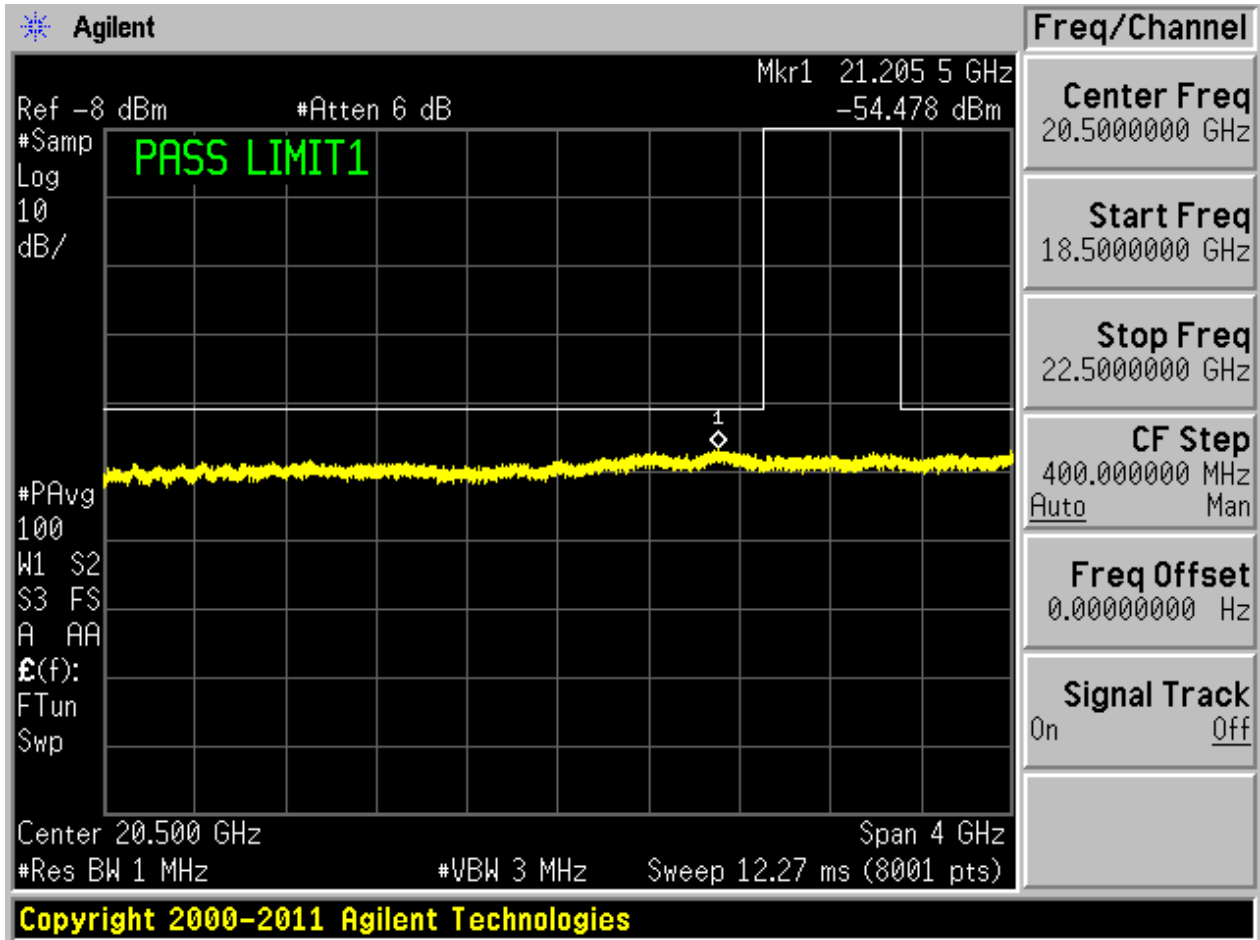
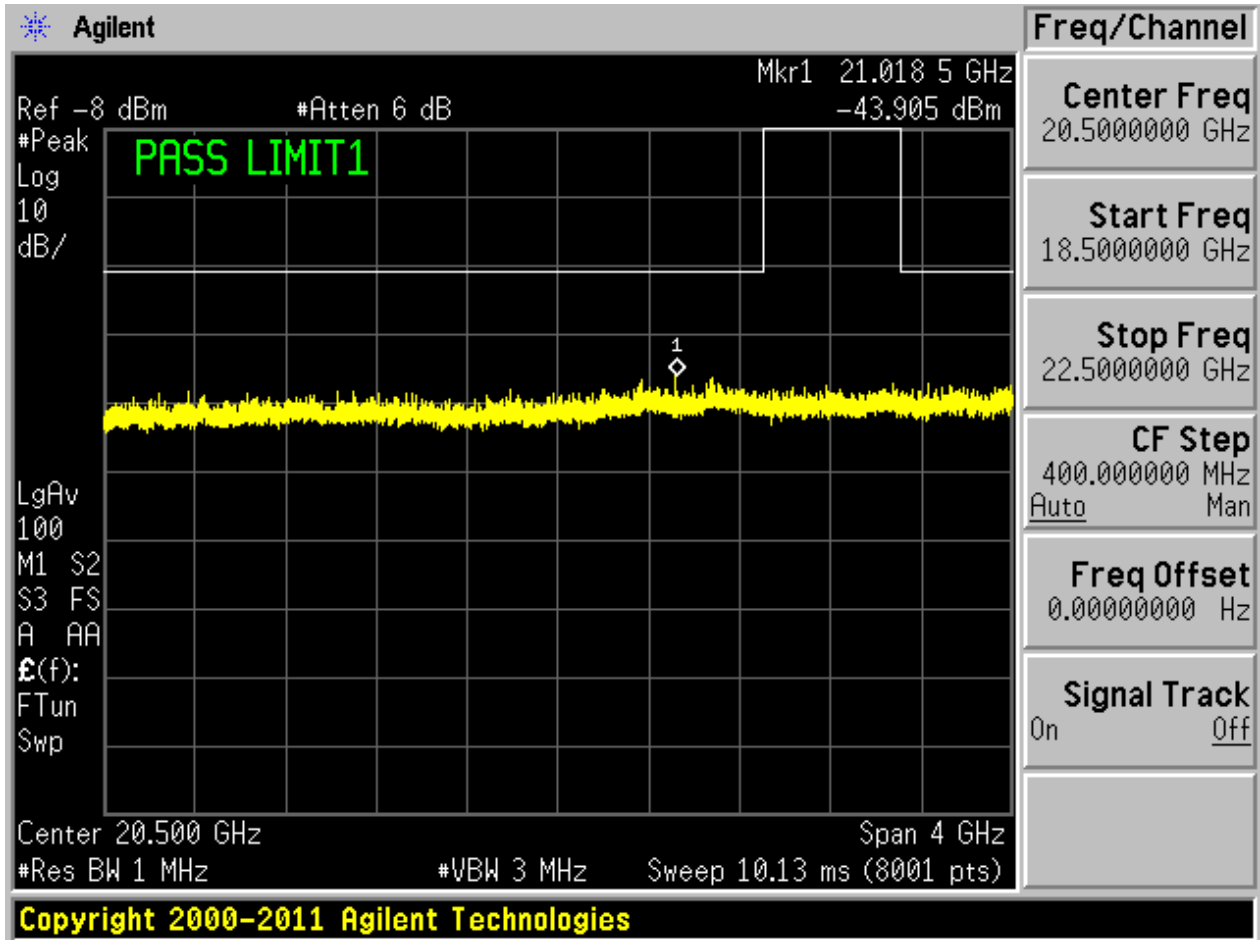
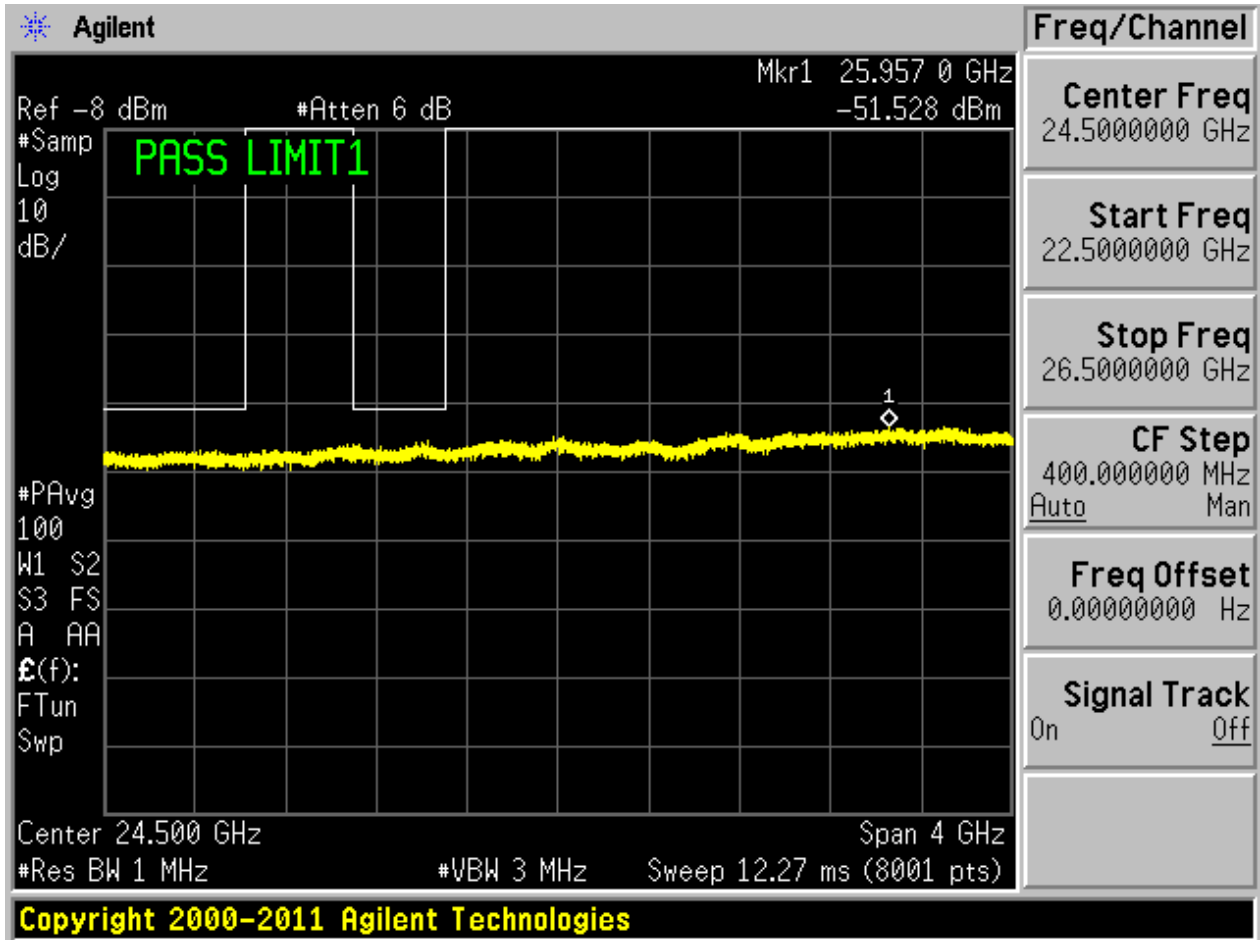
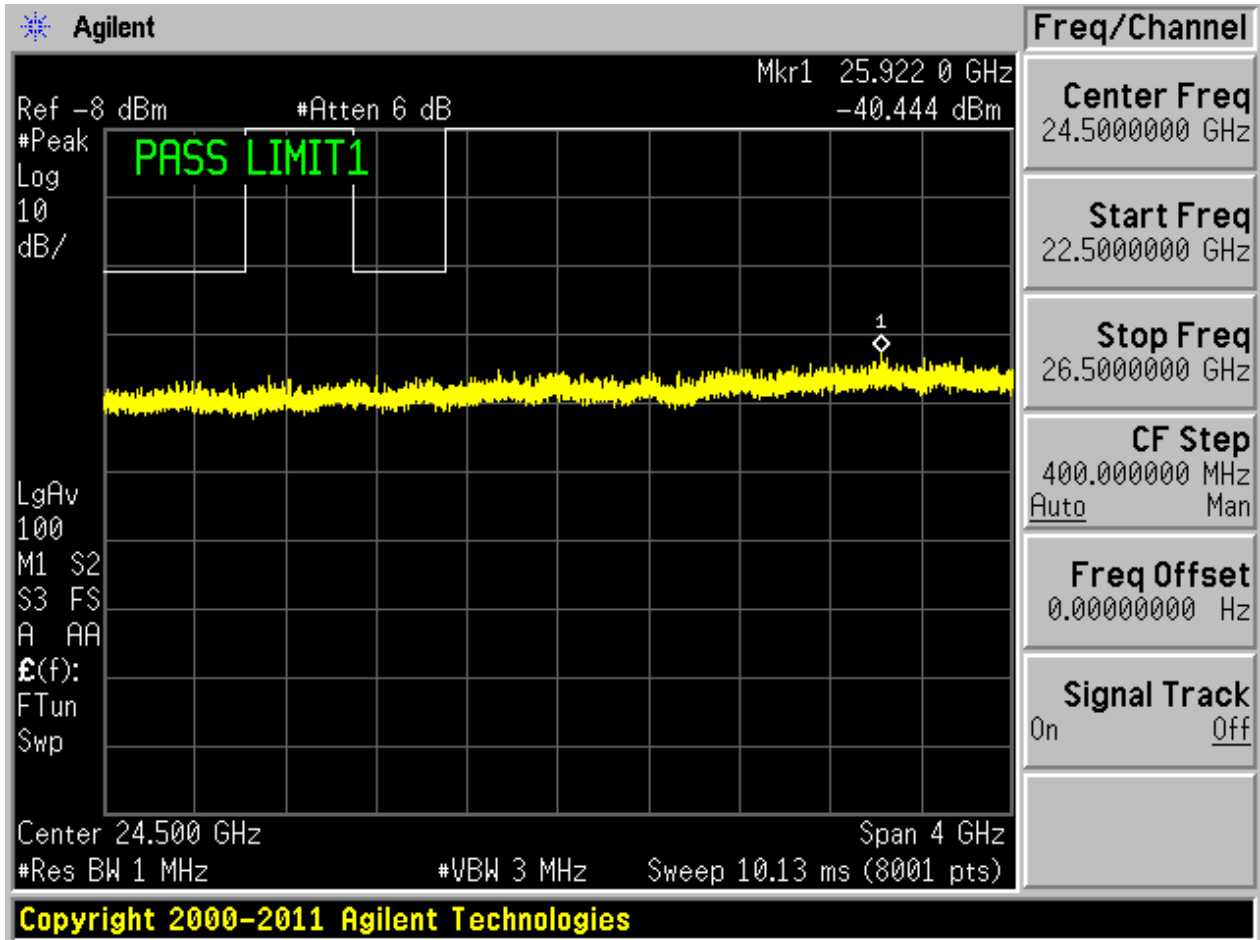


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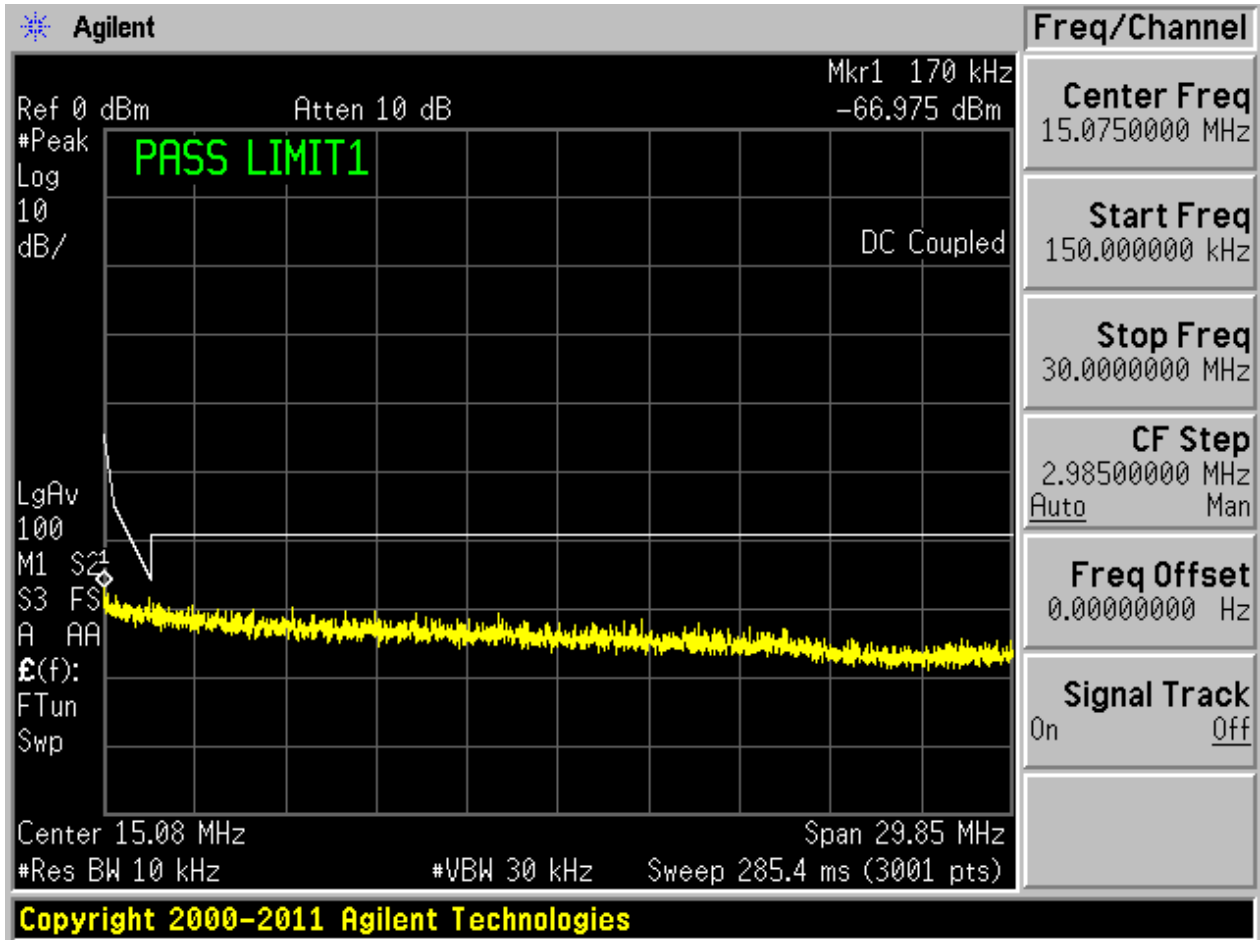


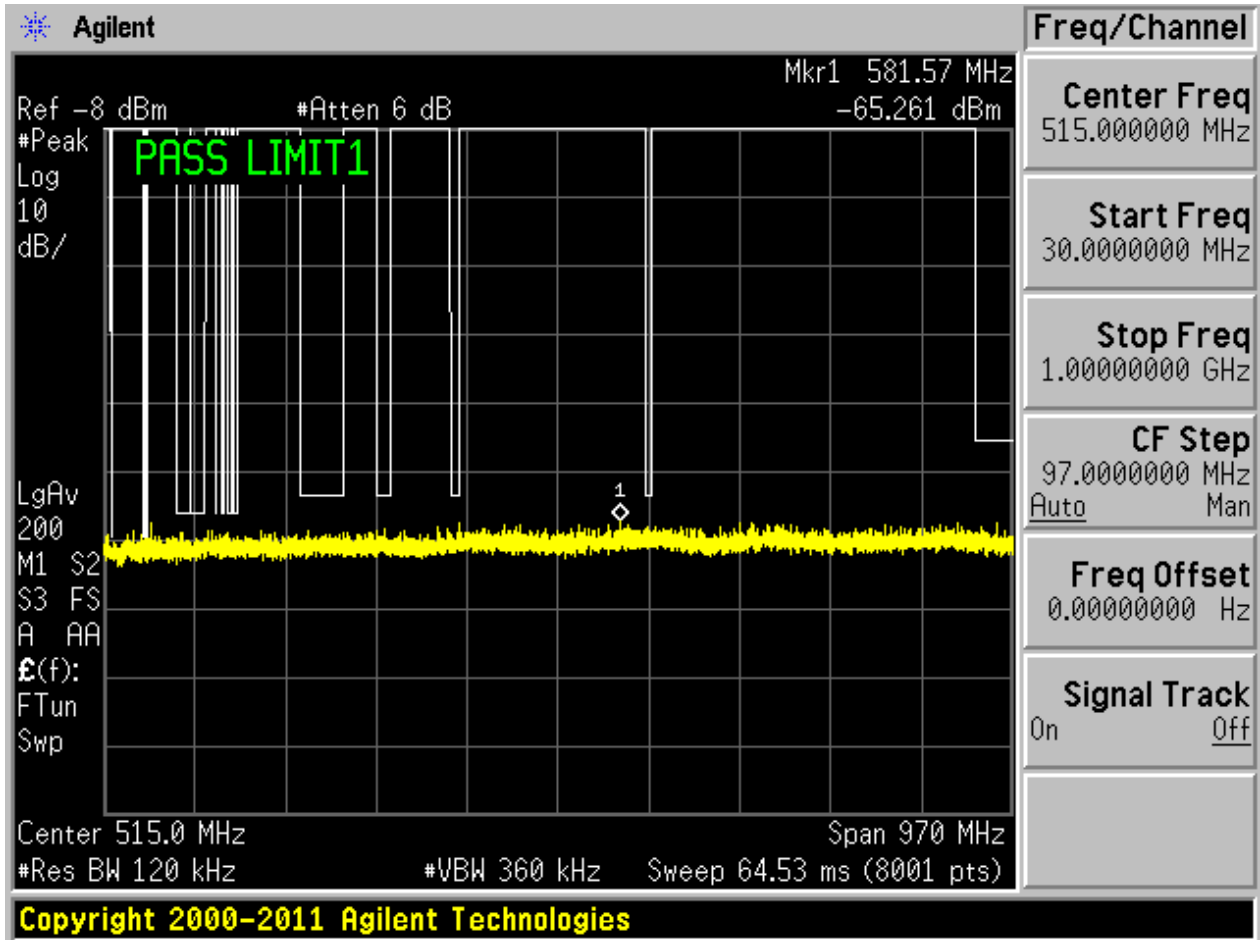


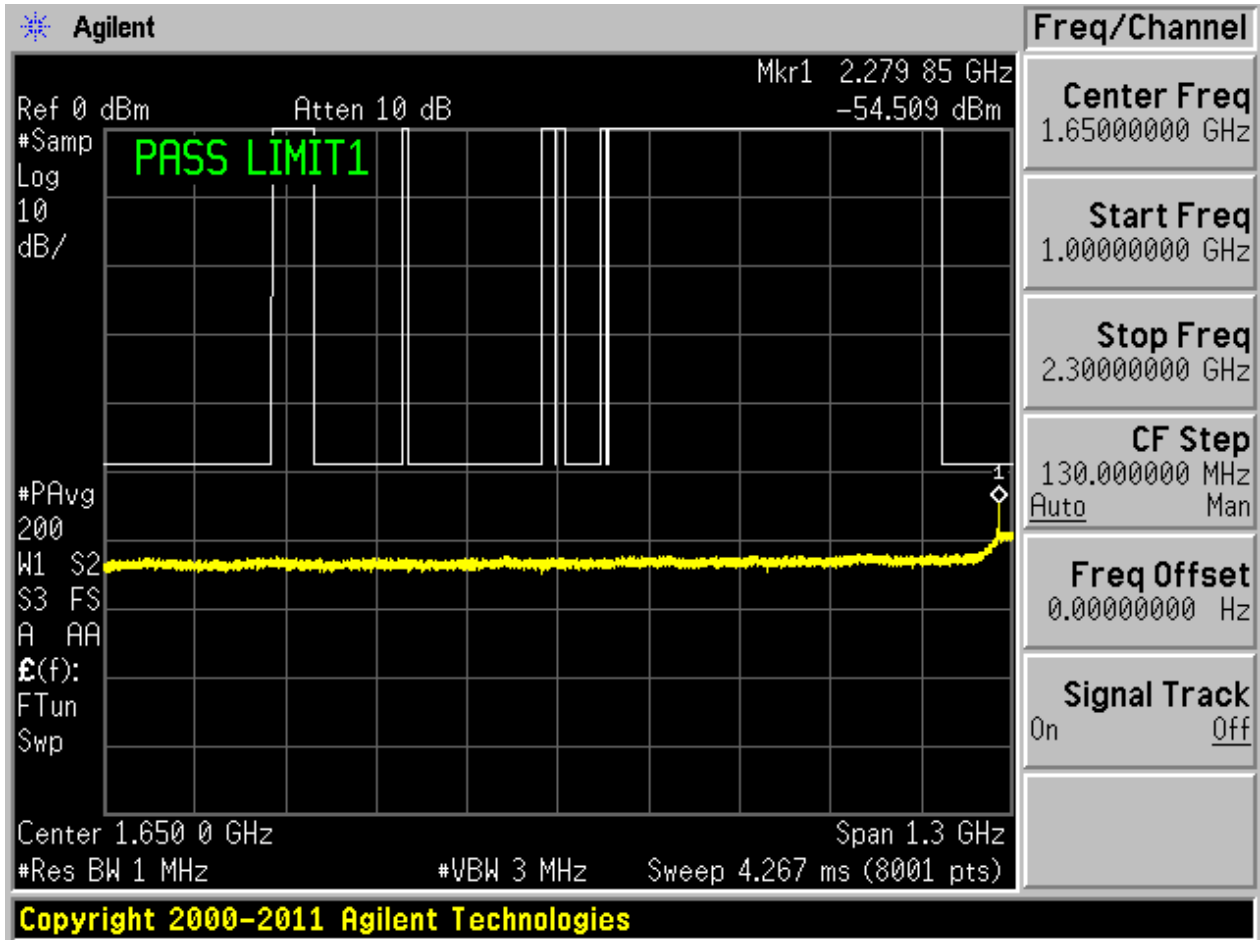


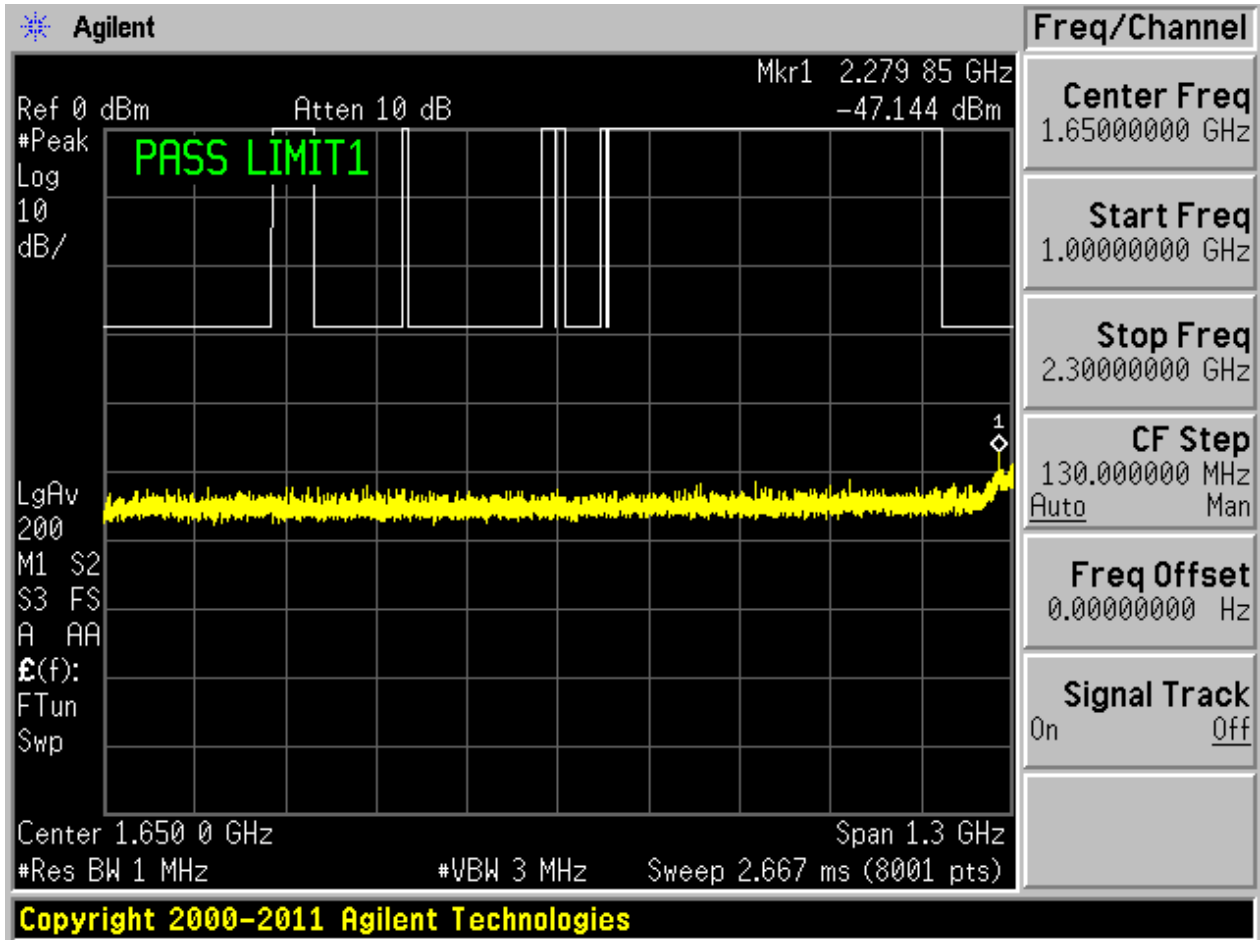


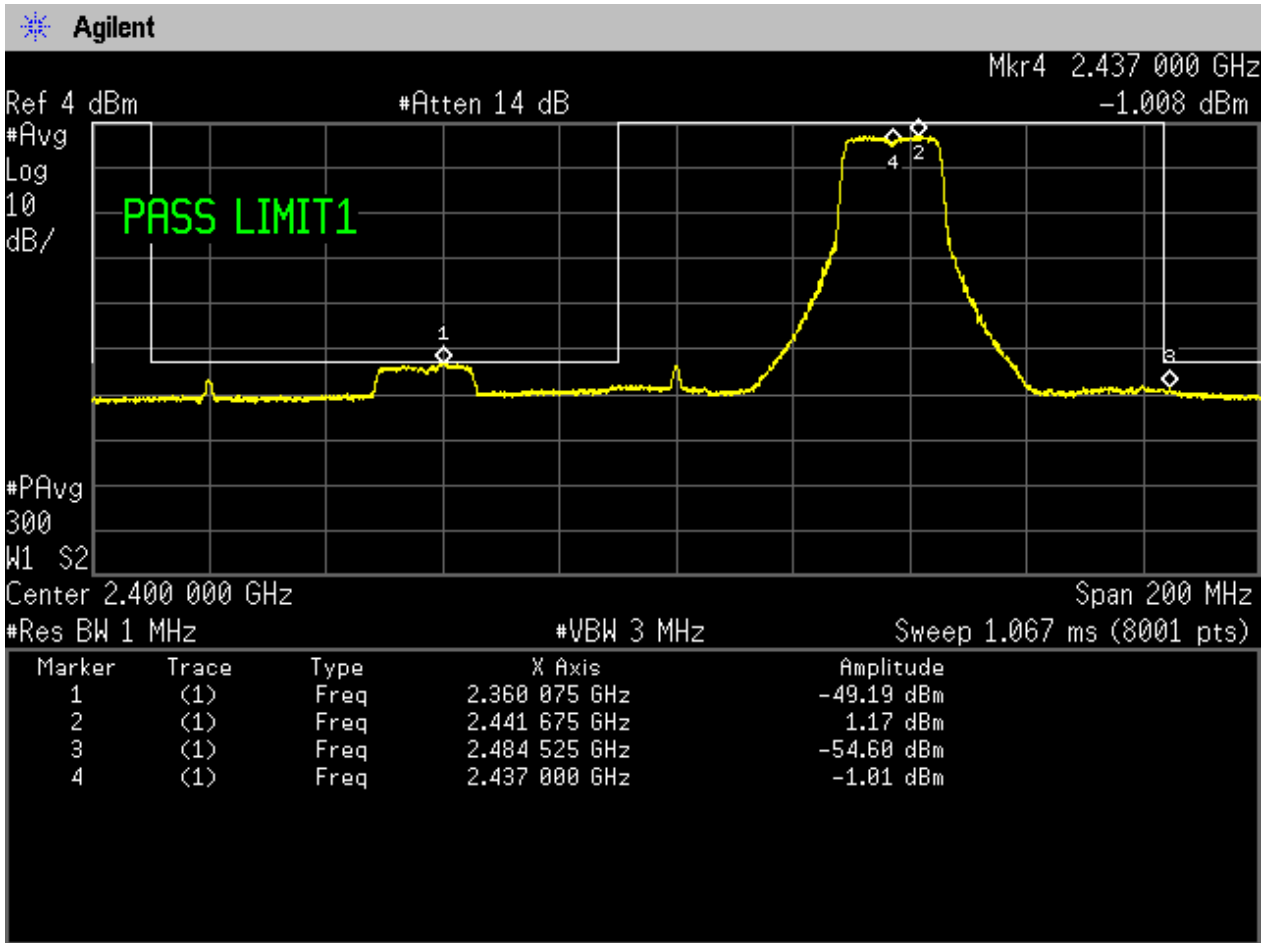
2.11.2 Ant 2 (Trace#2)

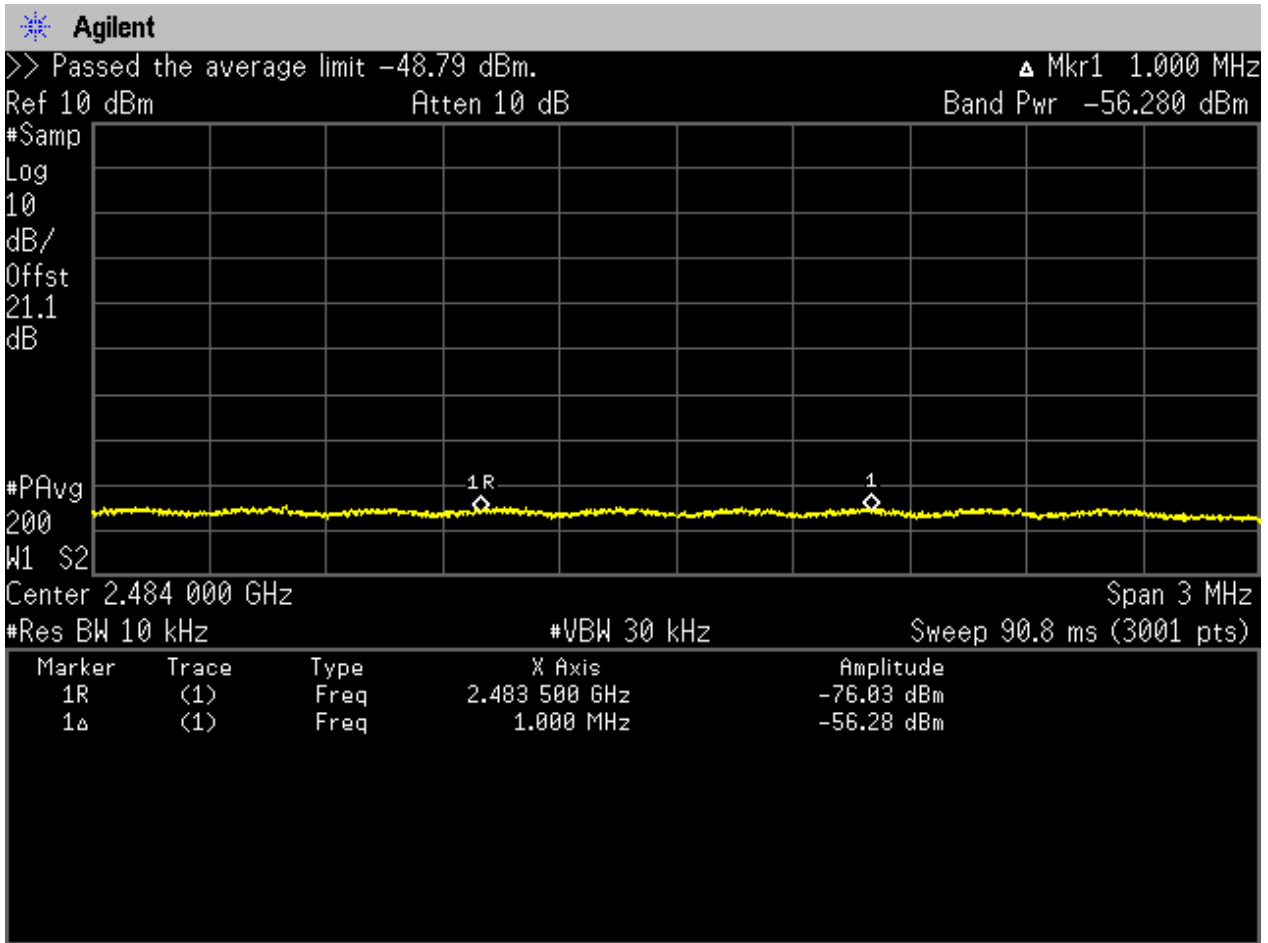


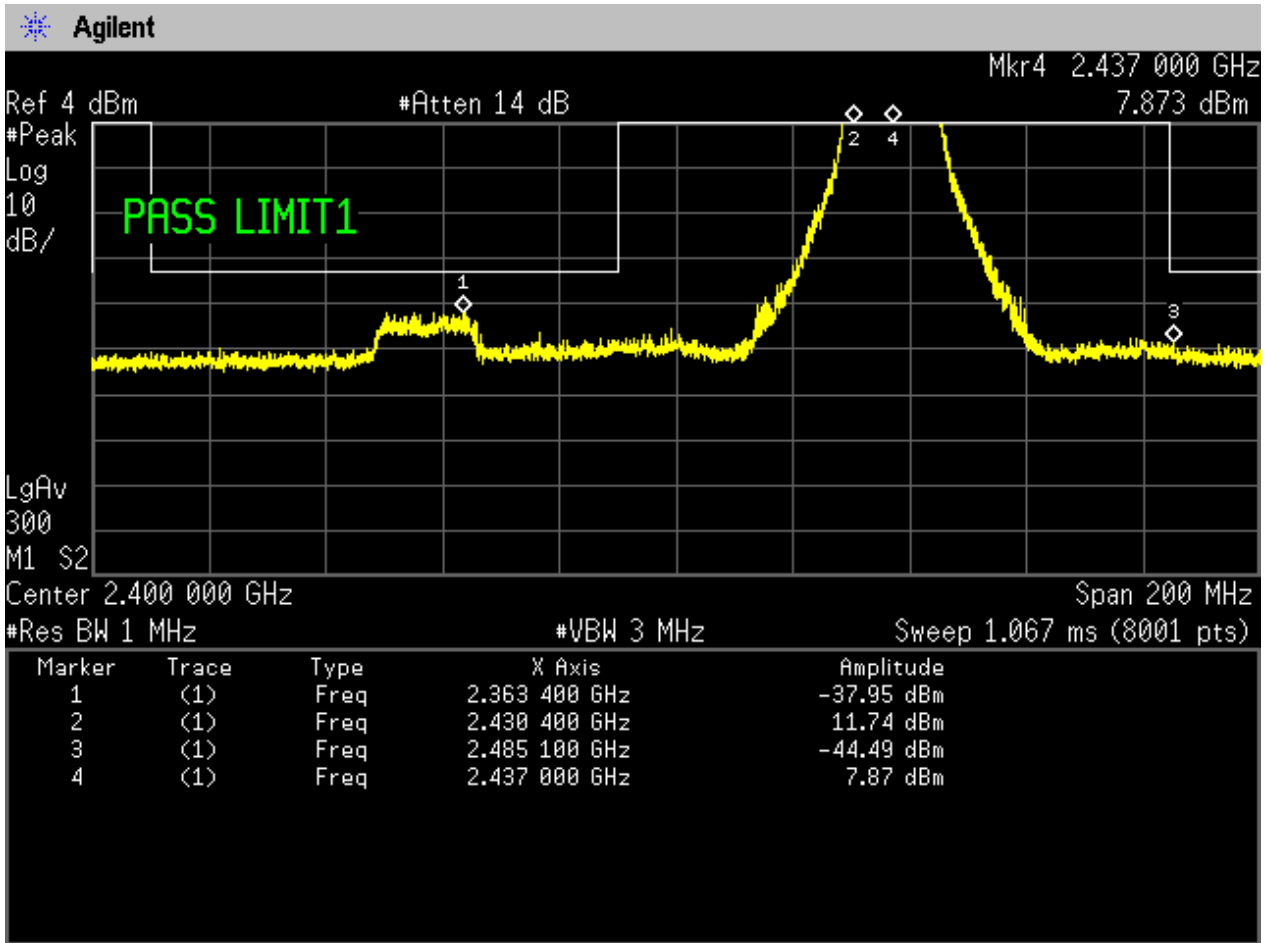


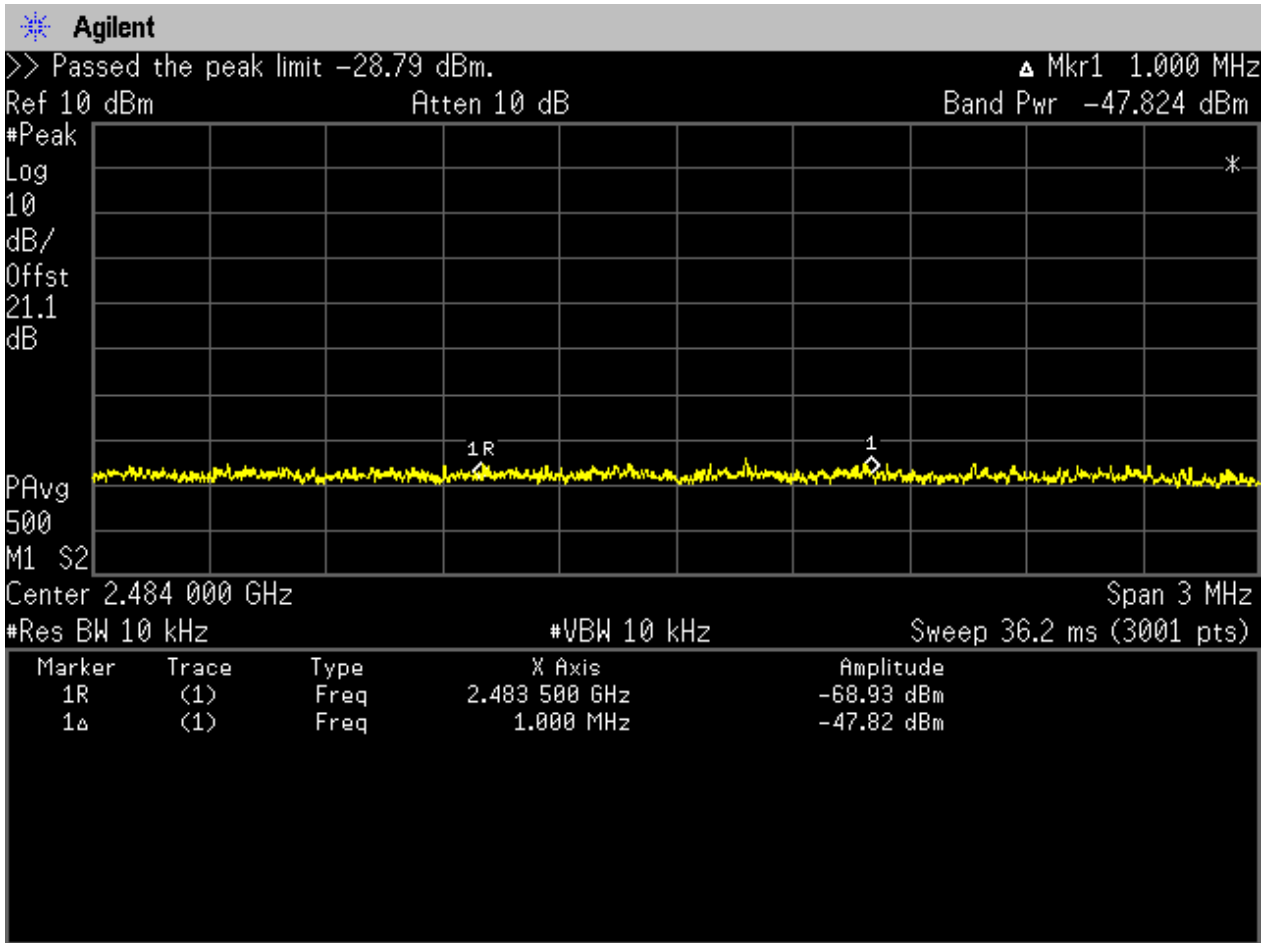


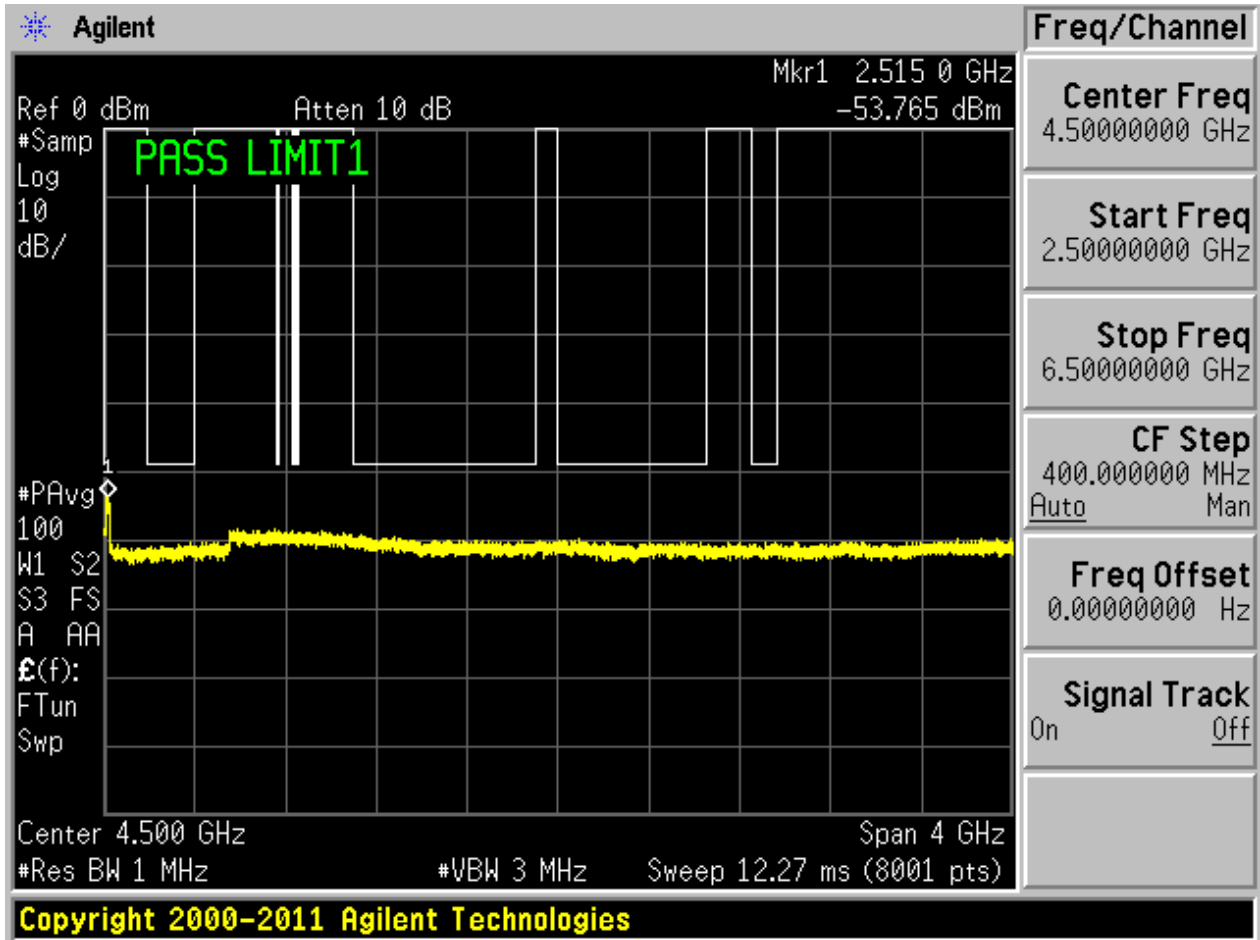


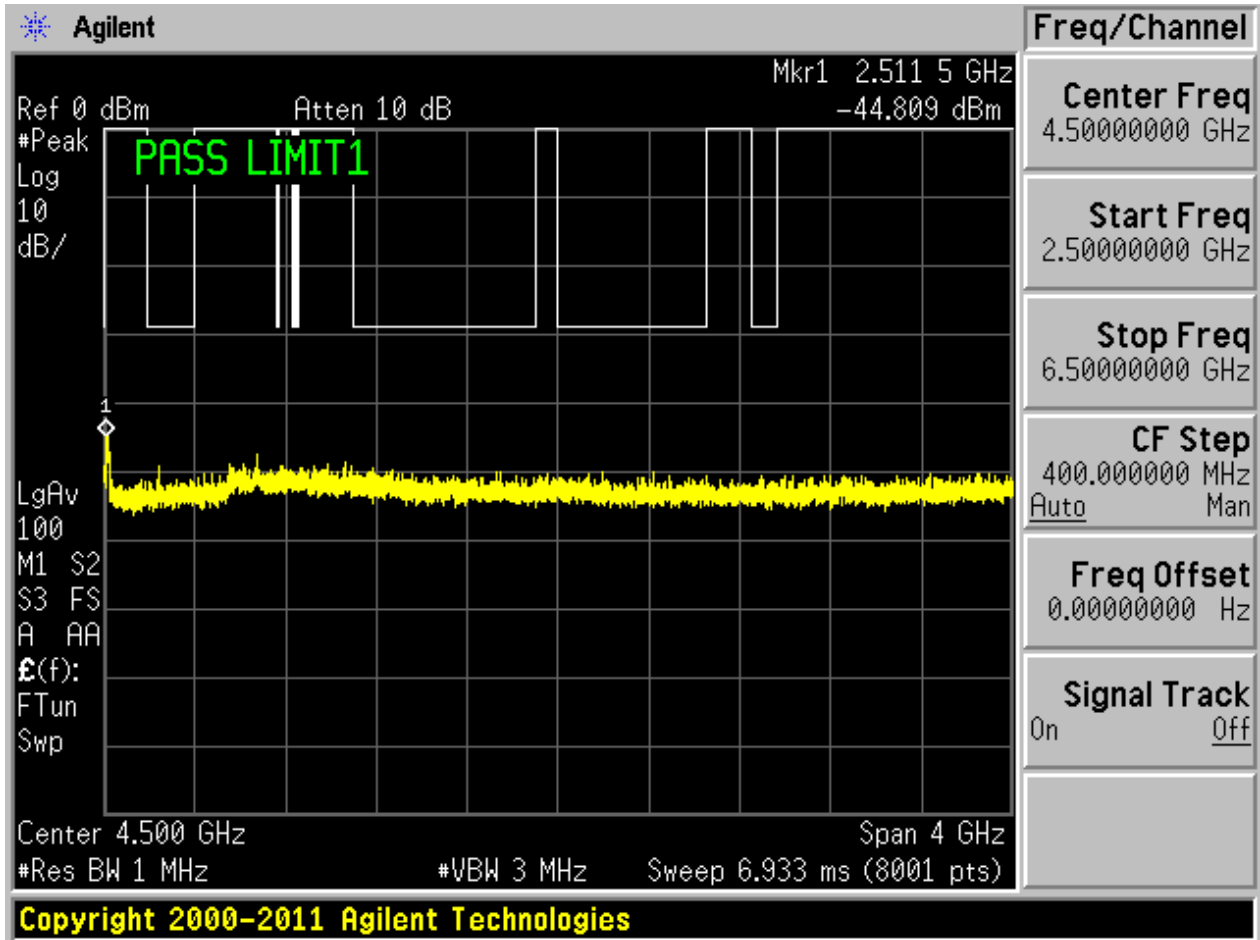


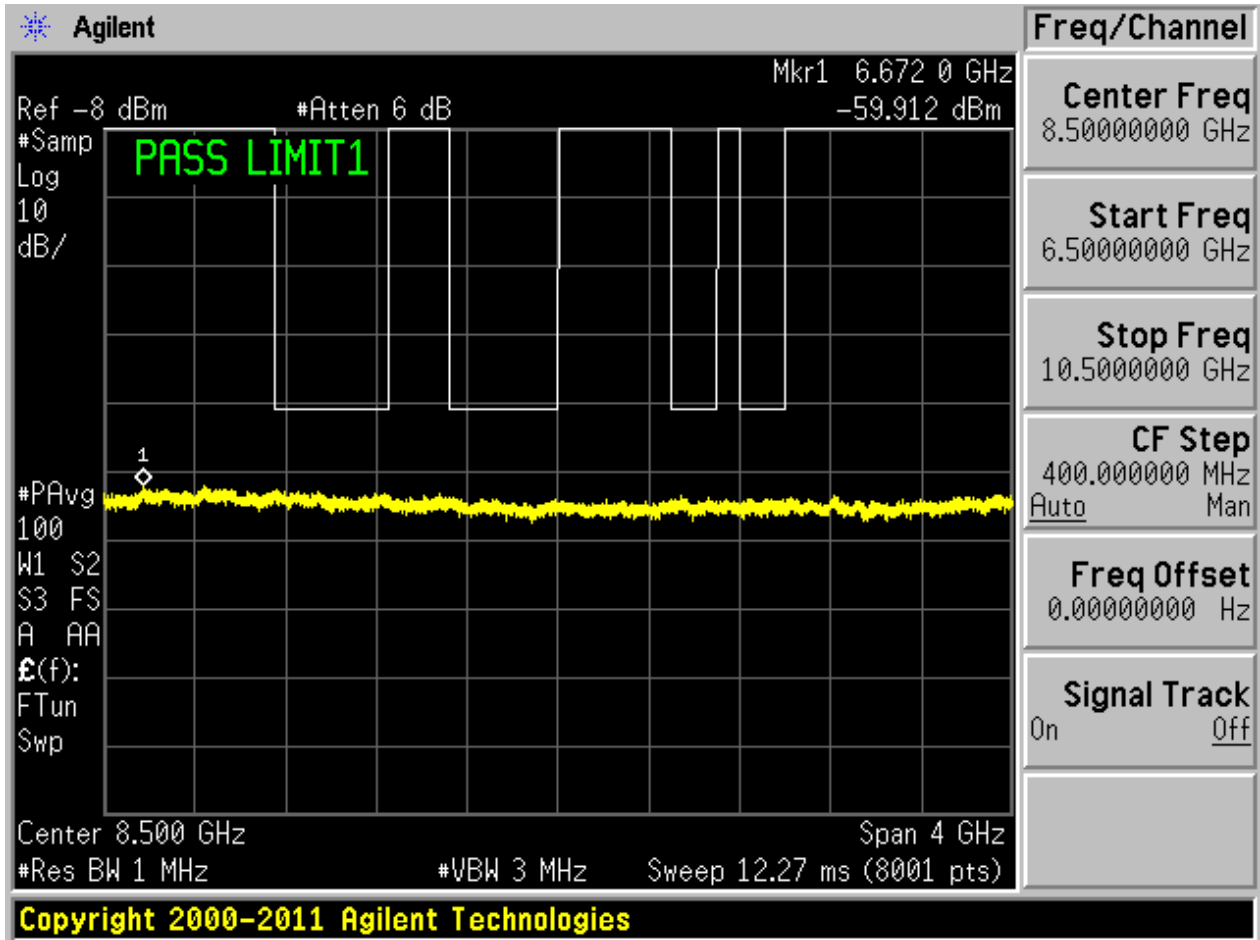


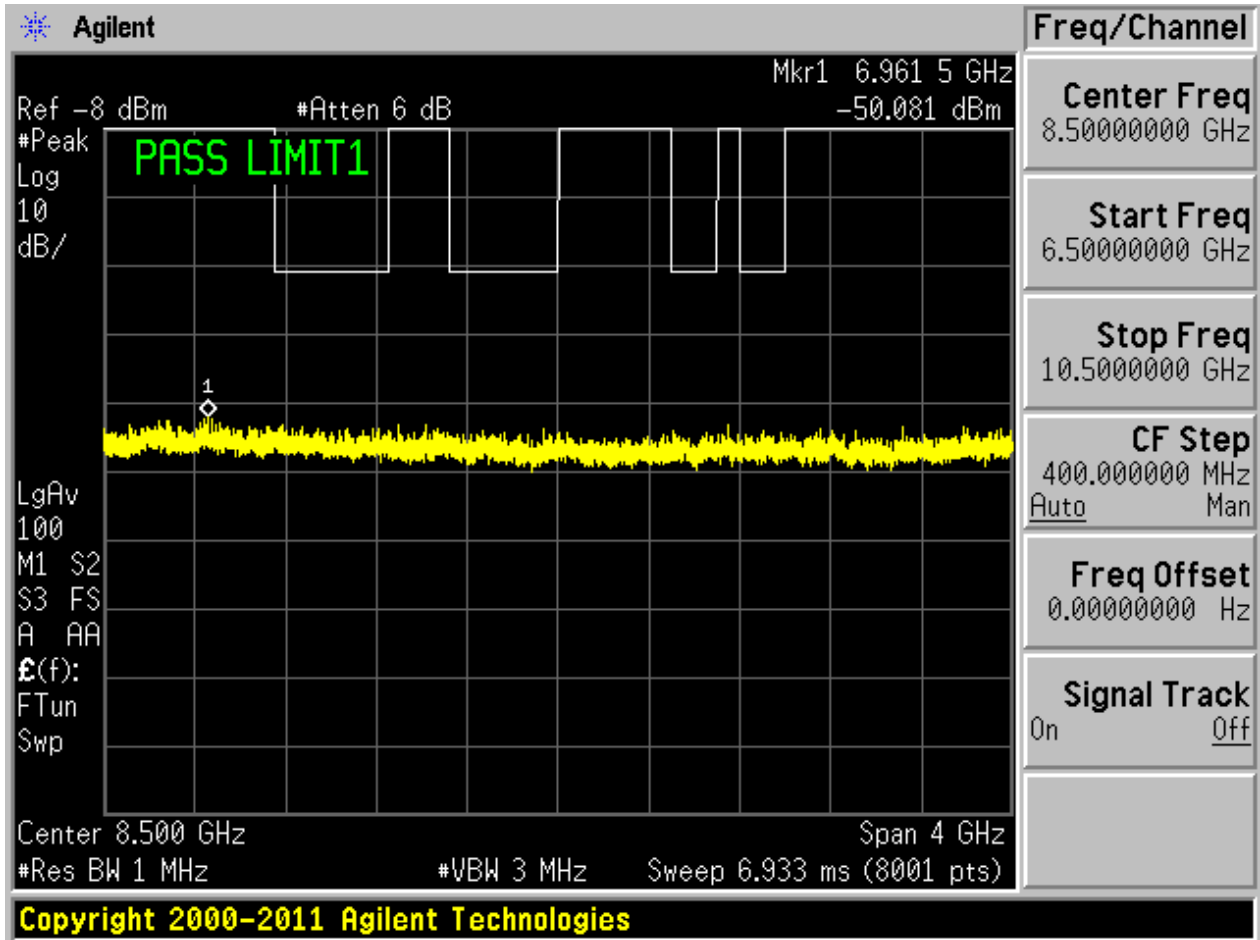


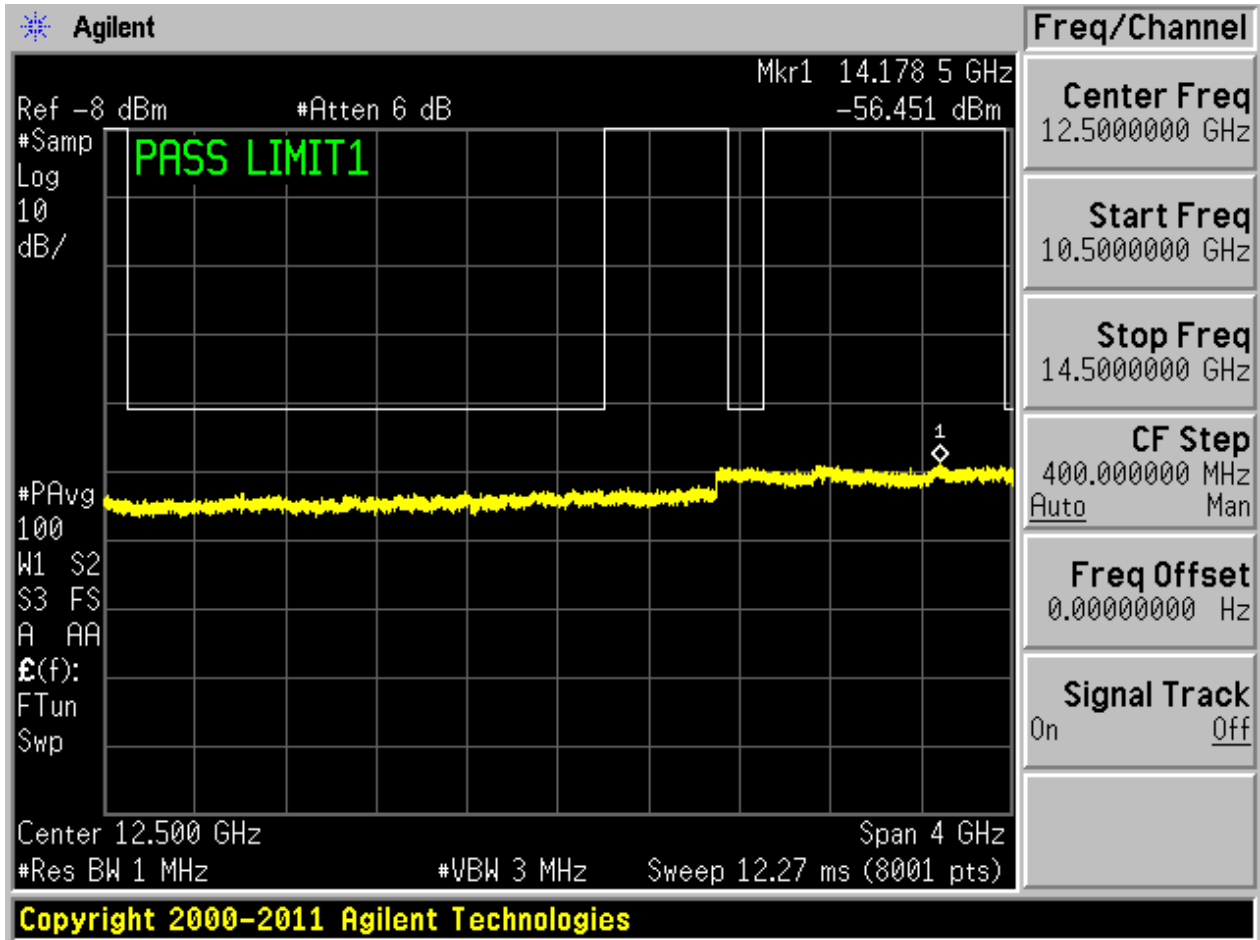


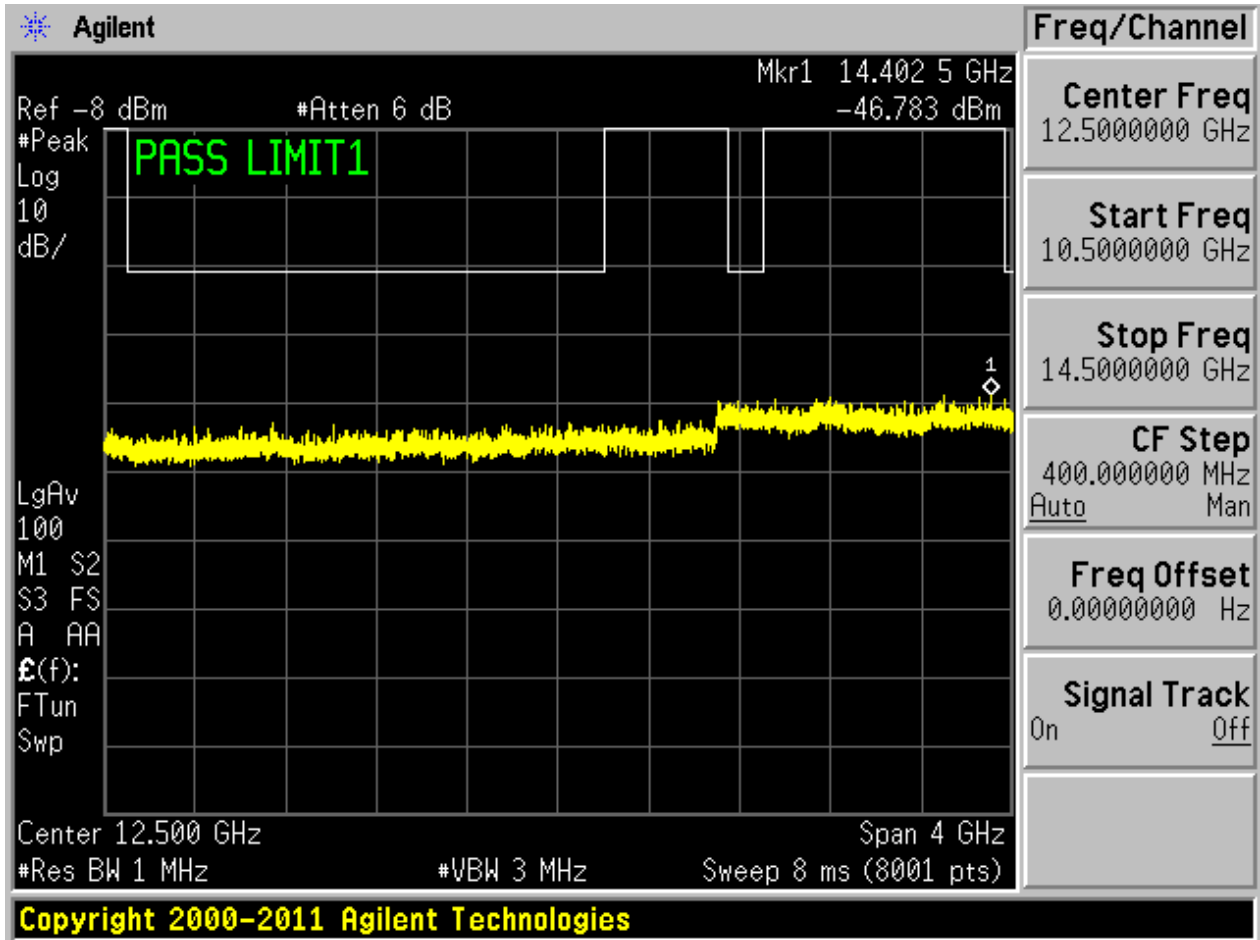


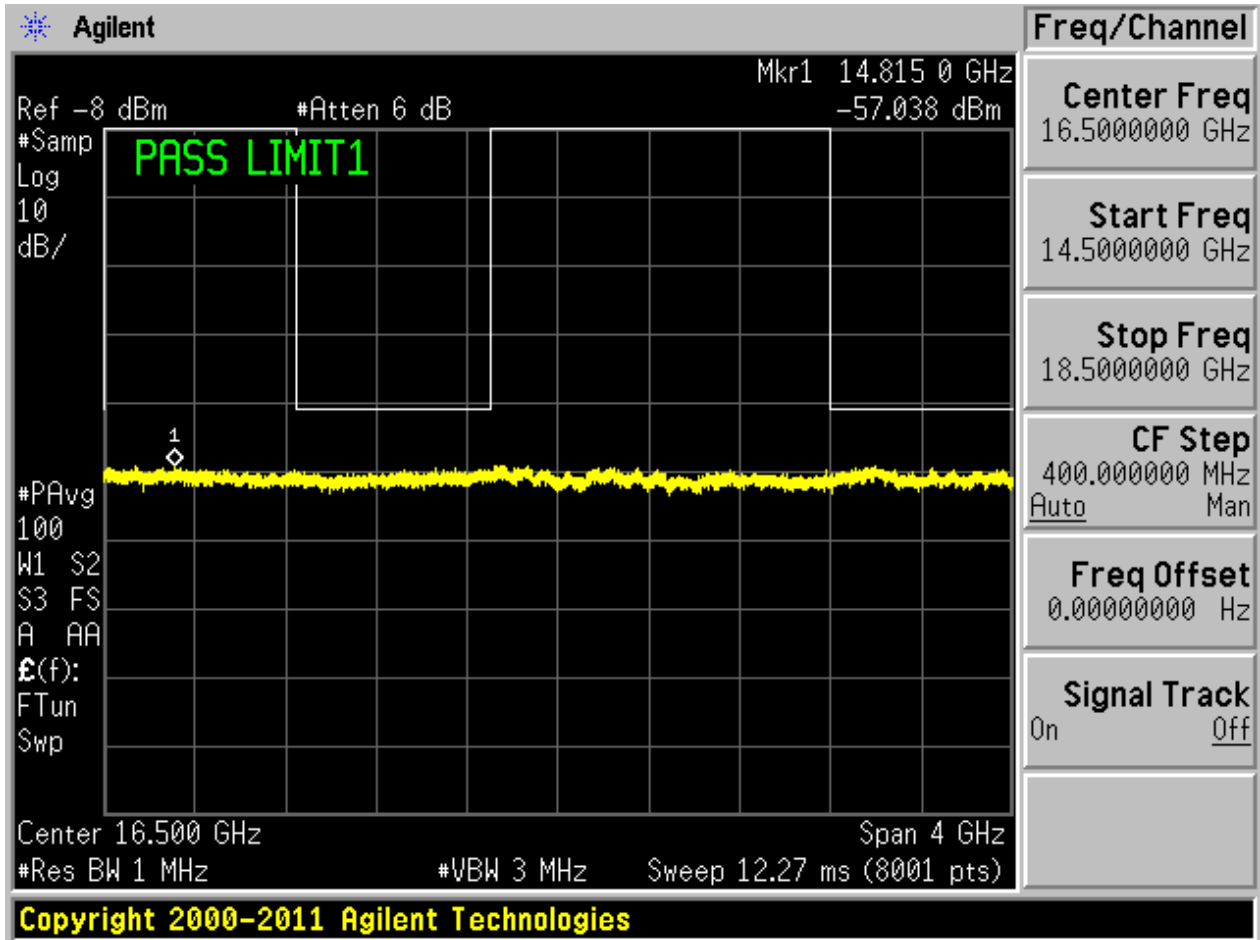


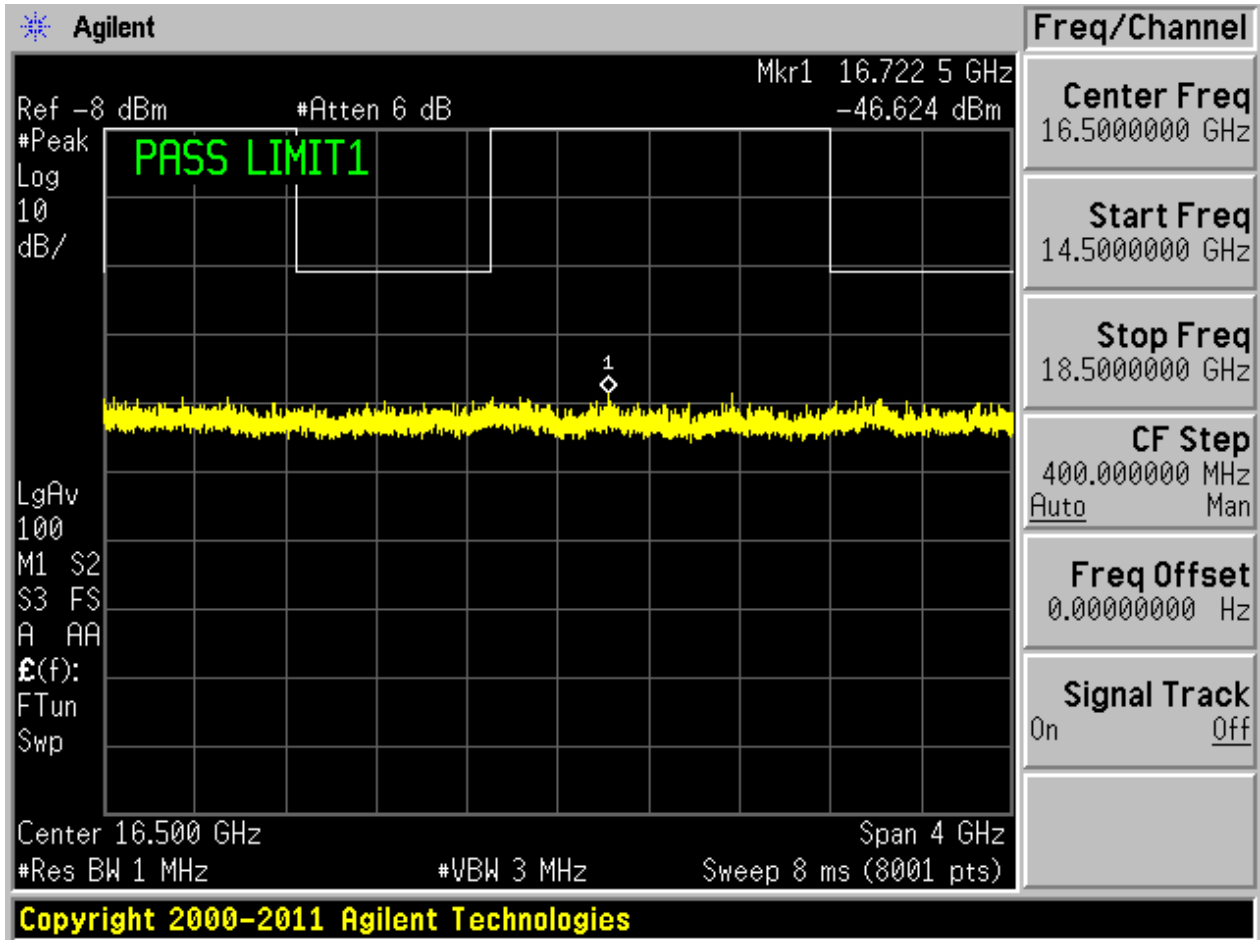


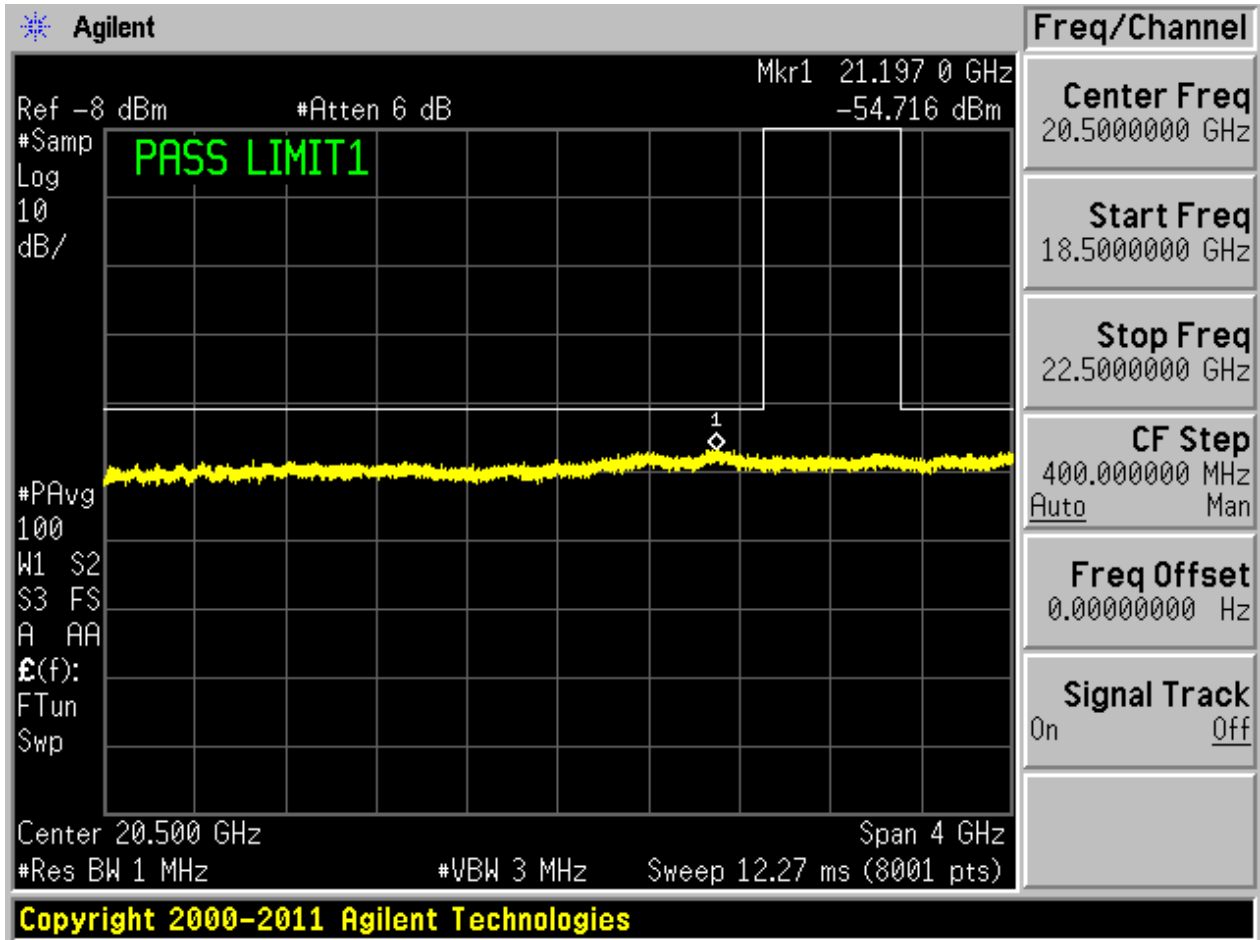


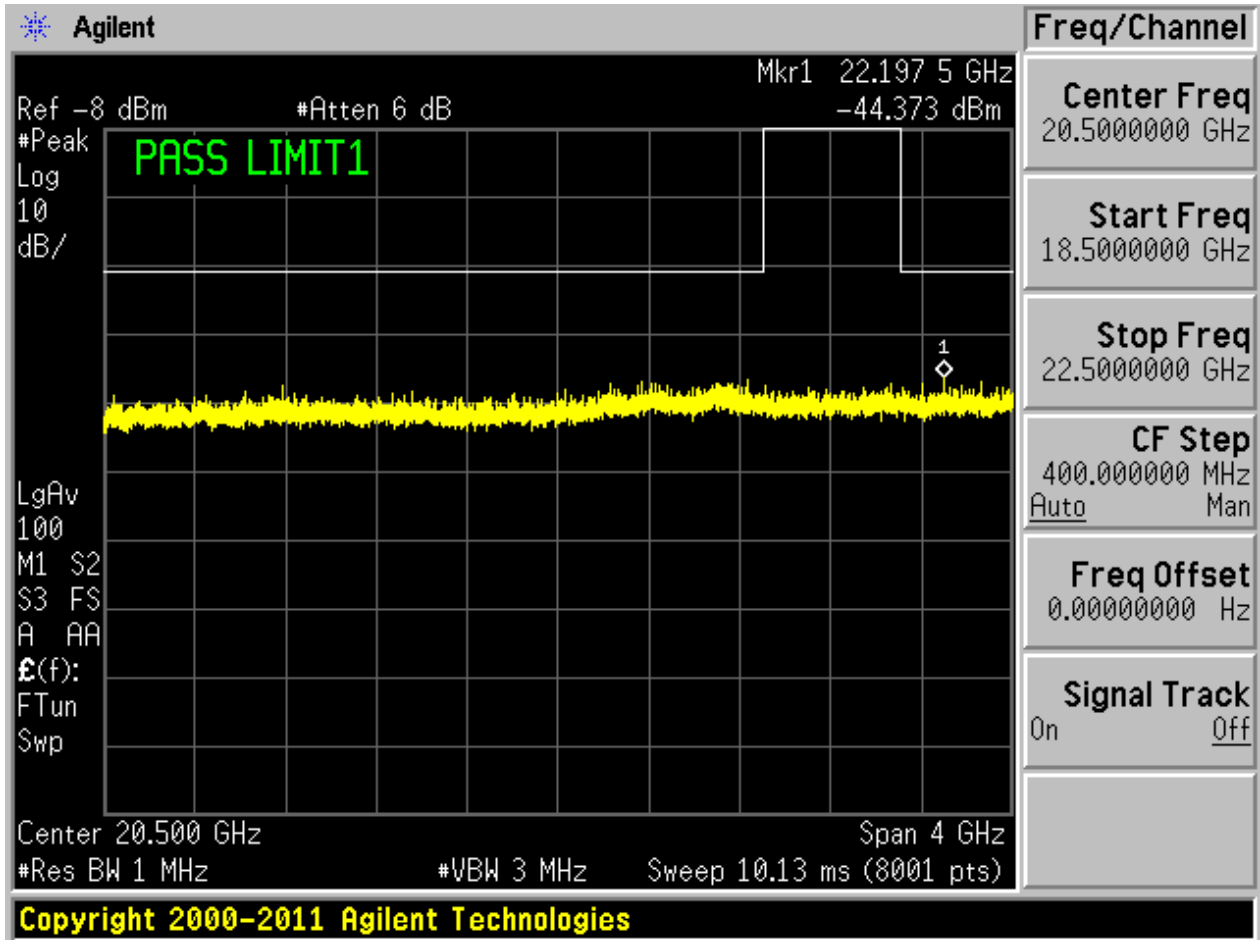


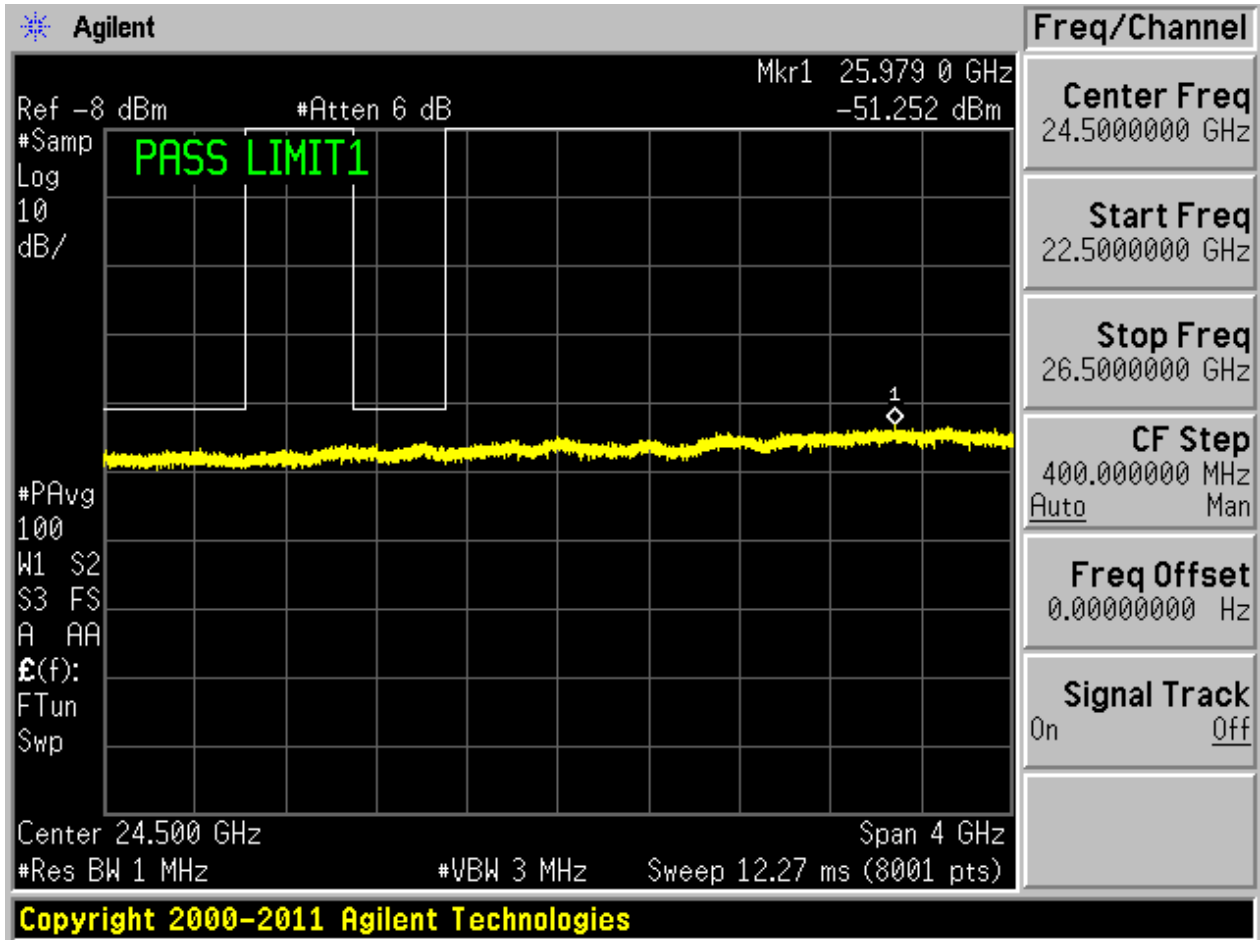


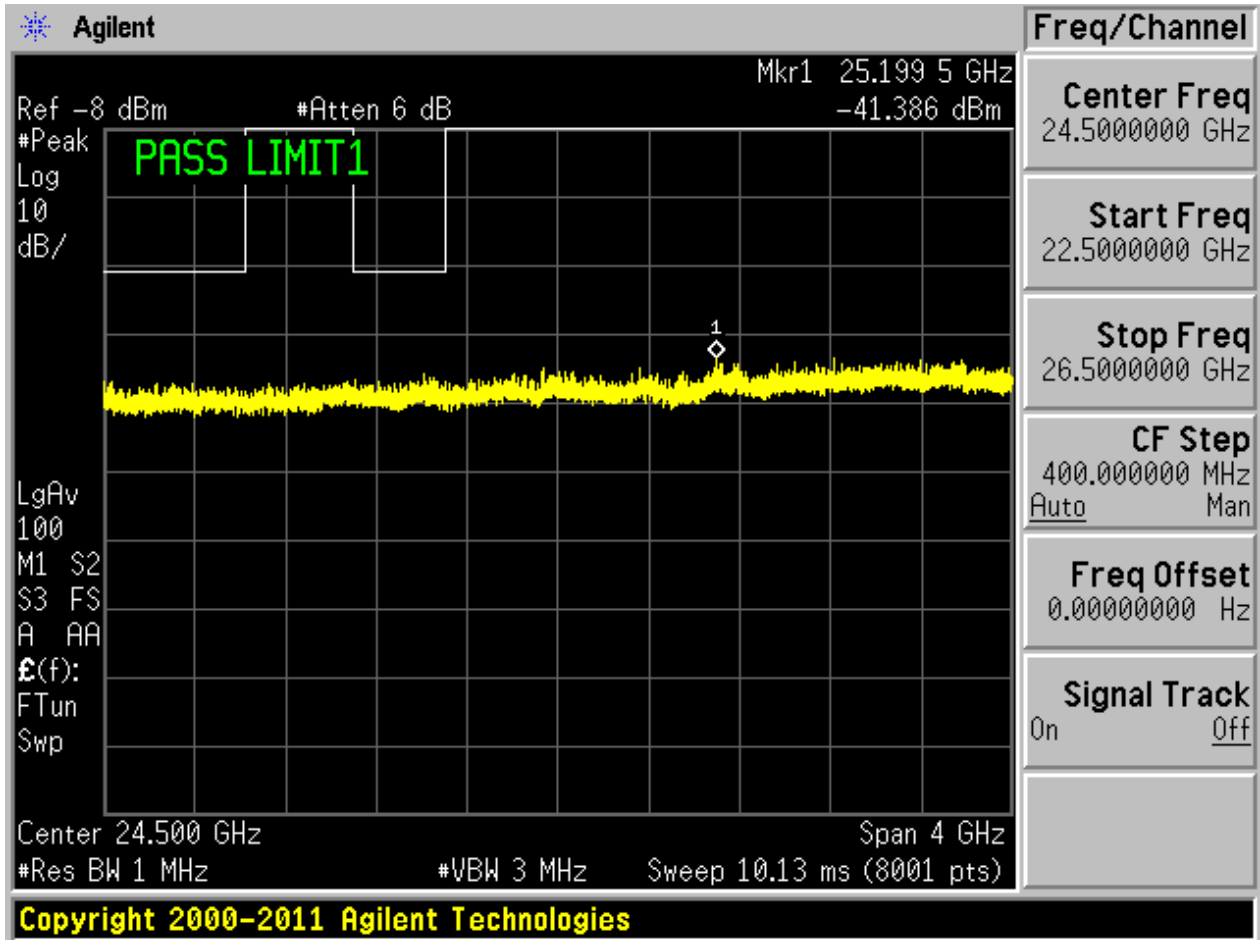










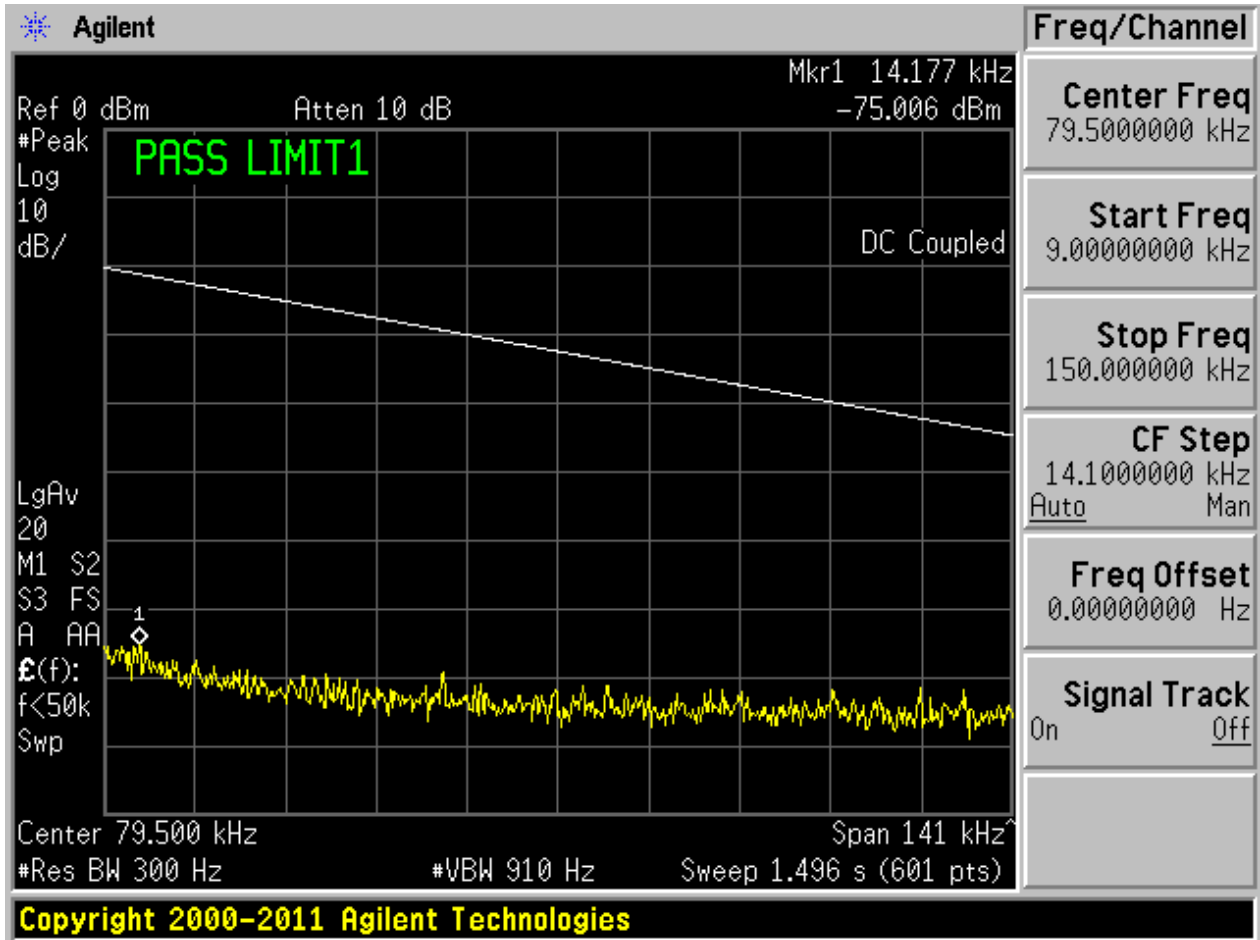


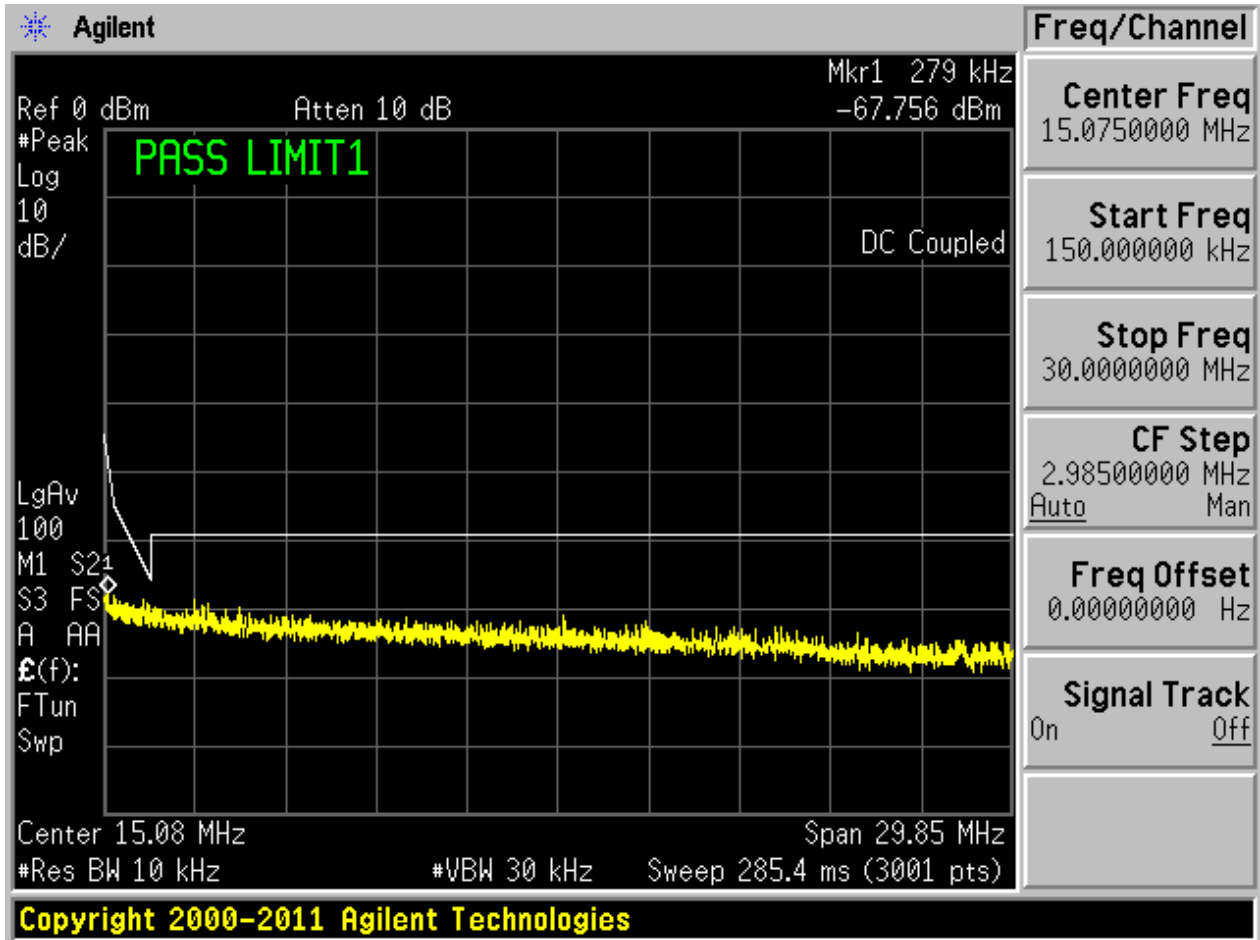
2.11.3 Trace#sum (if needed for final judgment)

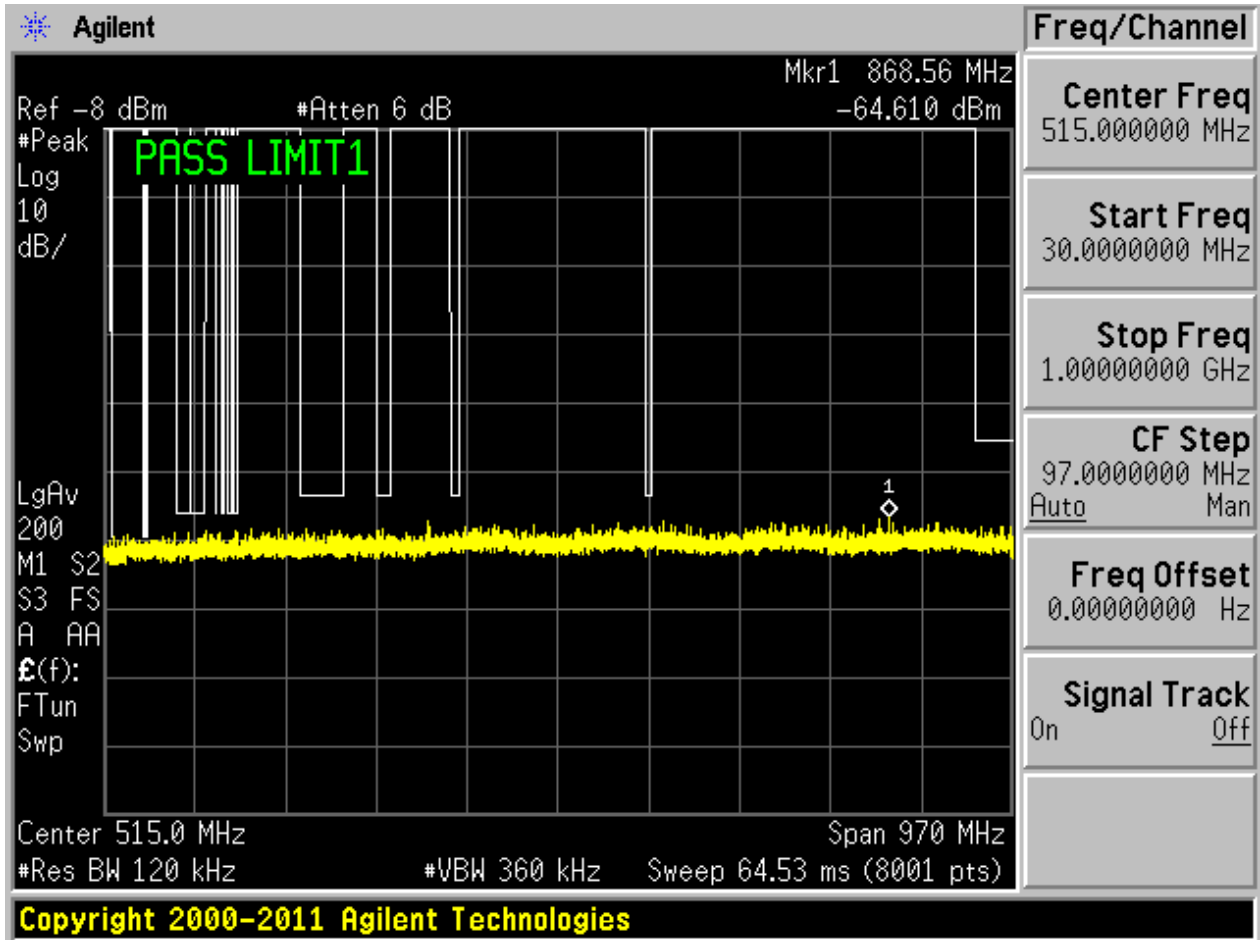
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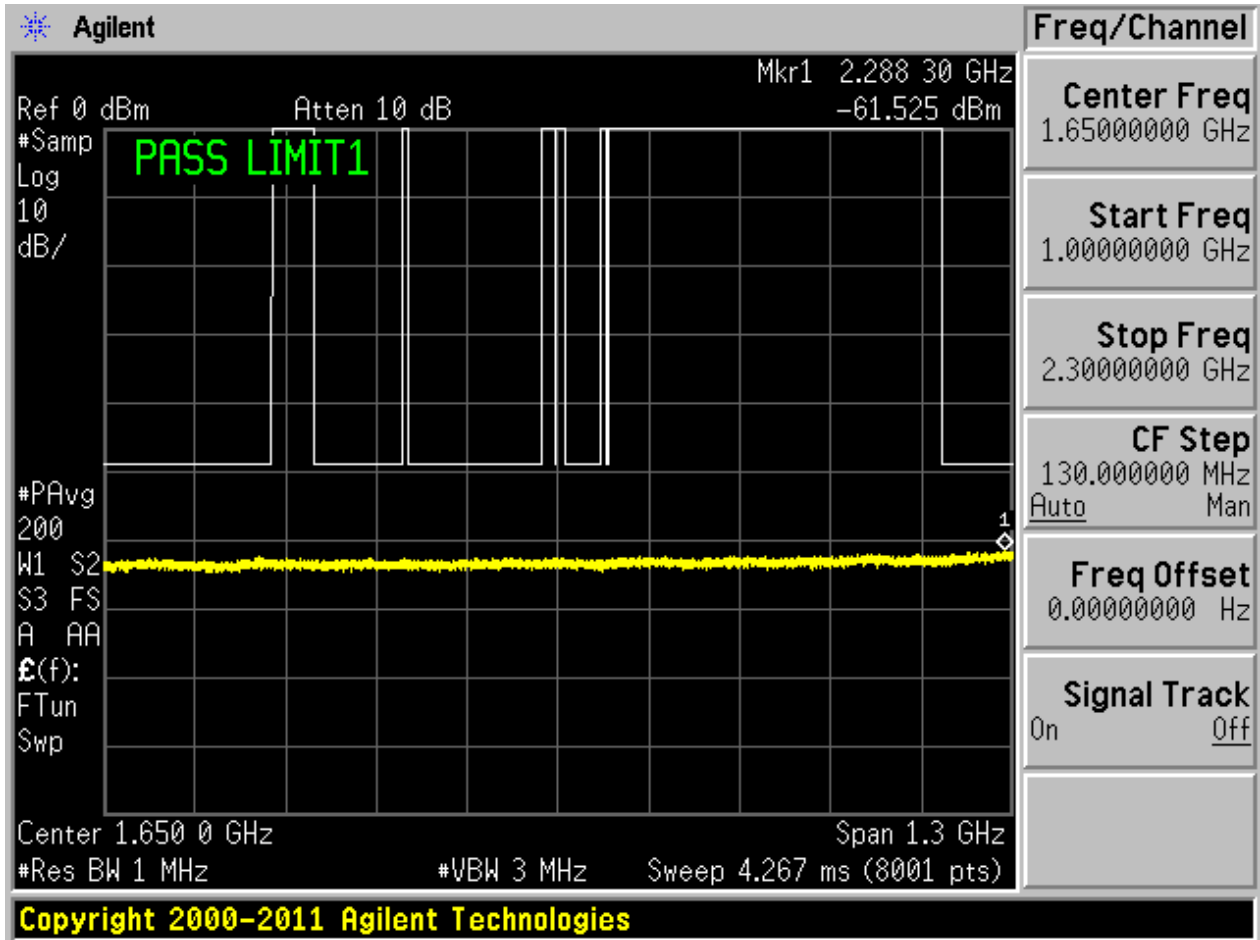
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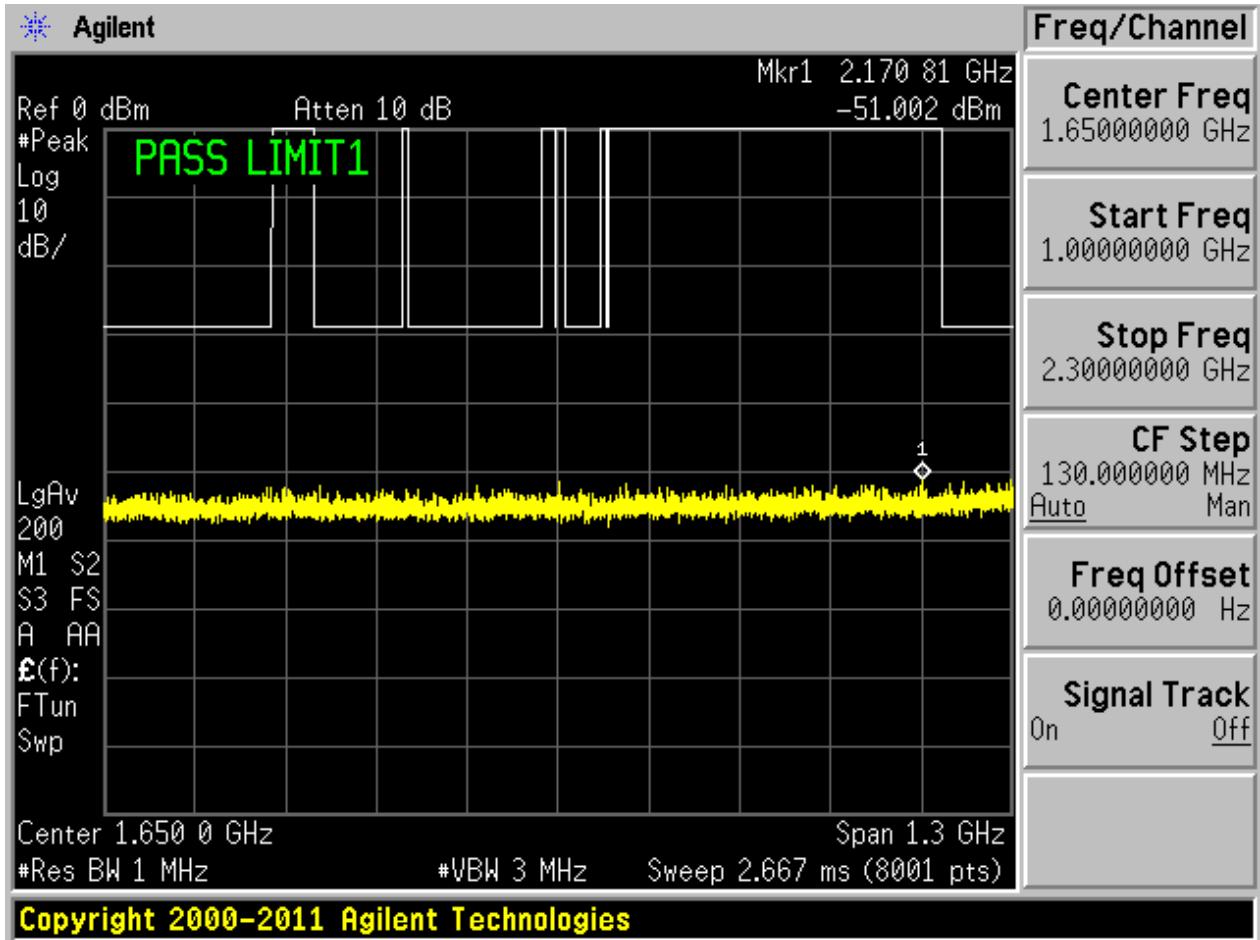
2.12.1 Ant 1 (Trace#1)

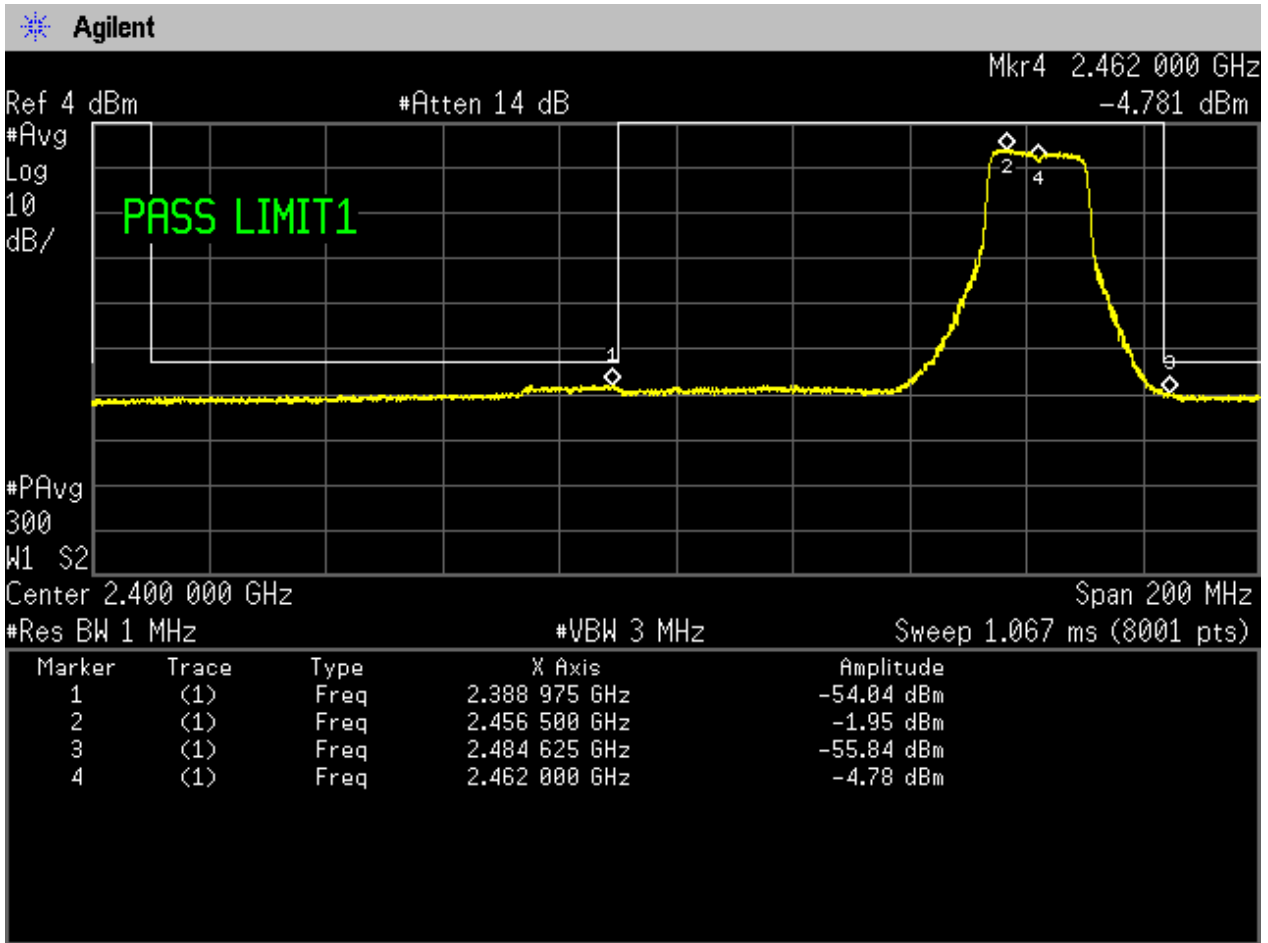


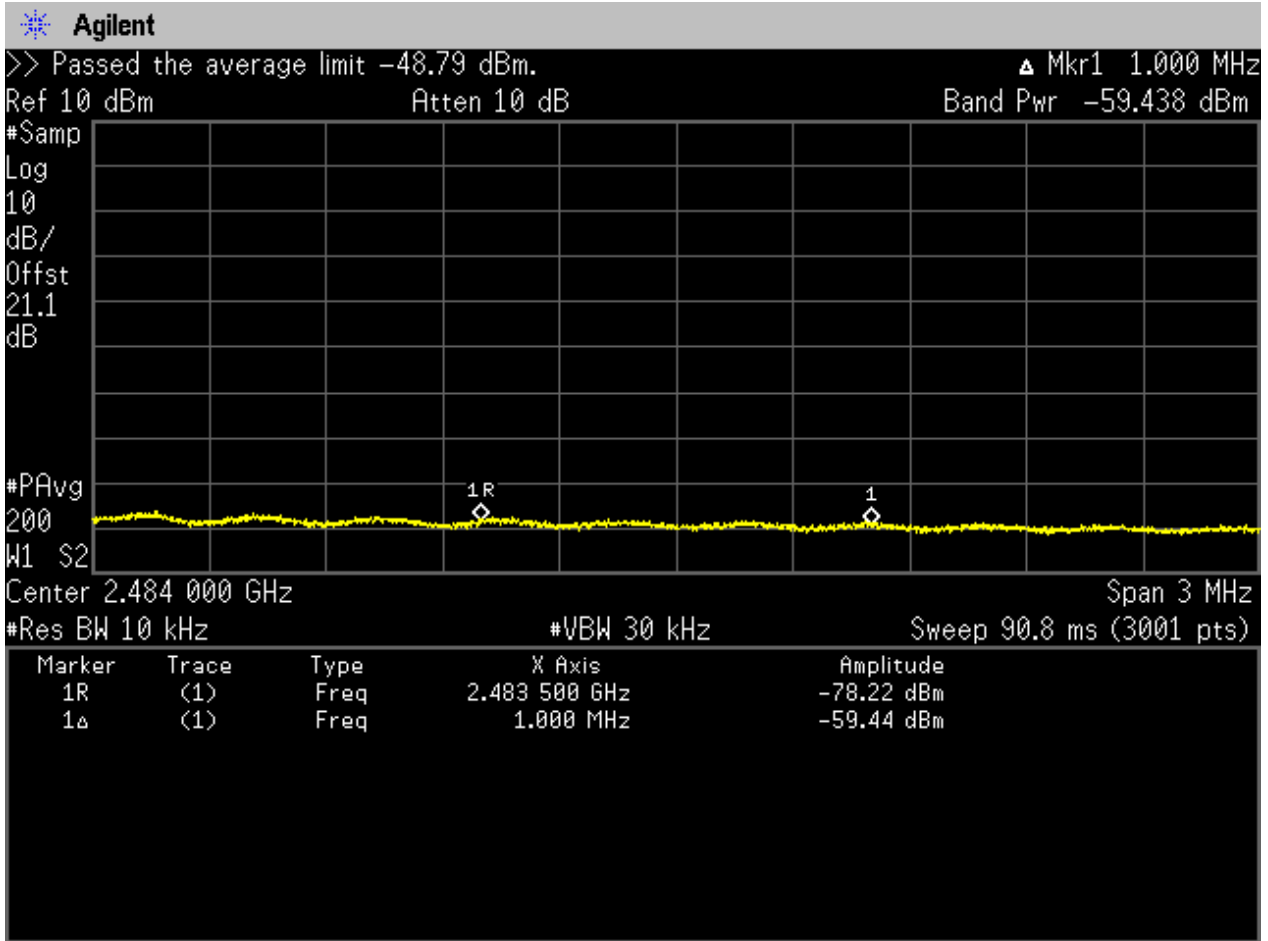


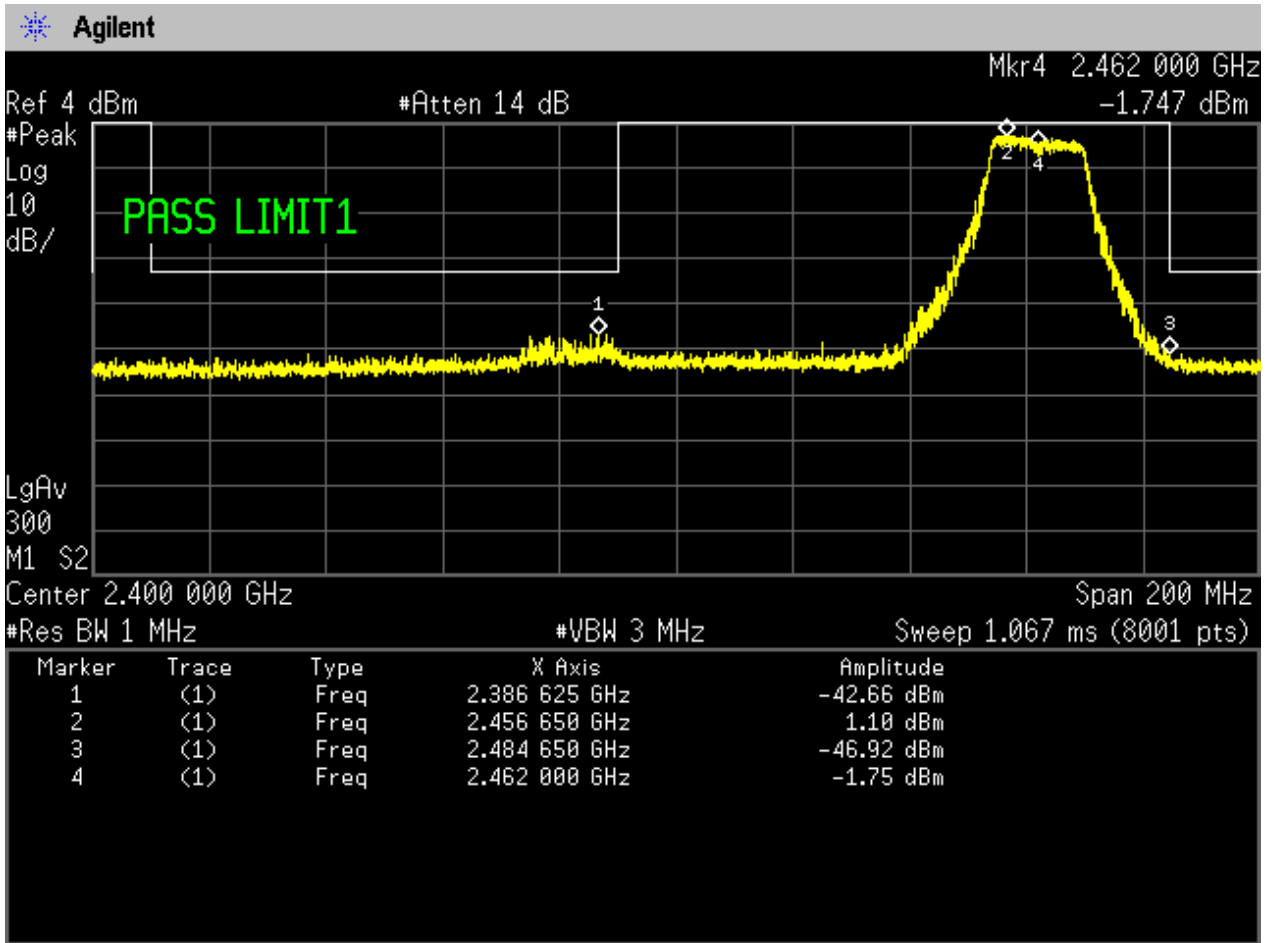


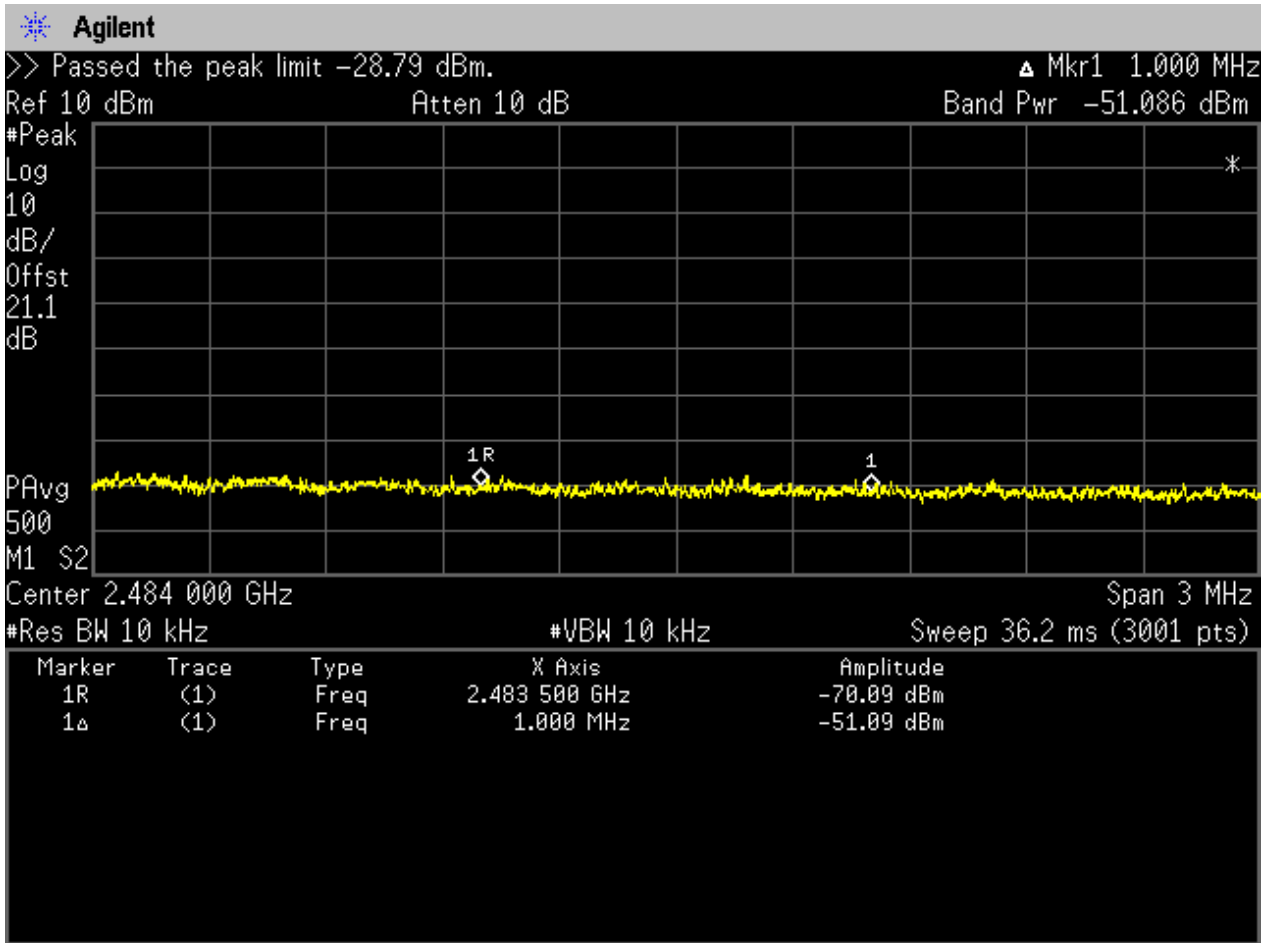


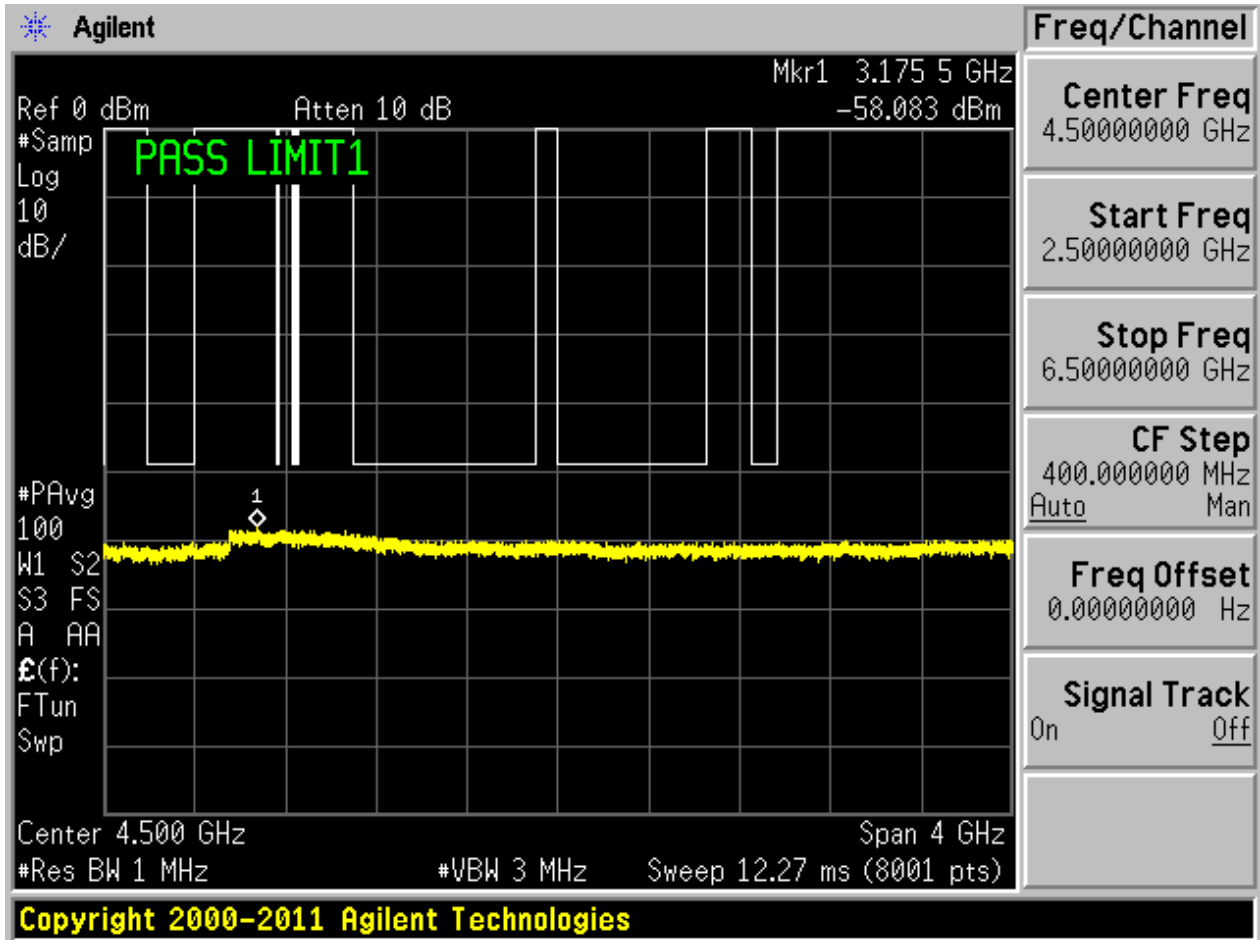


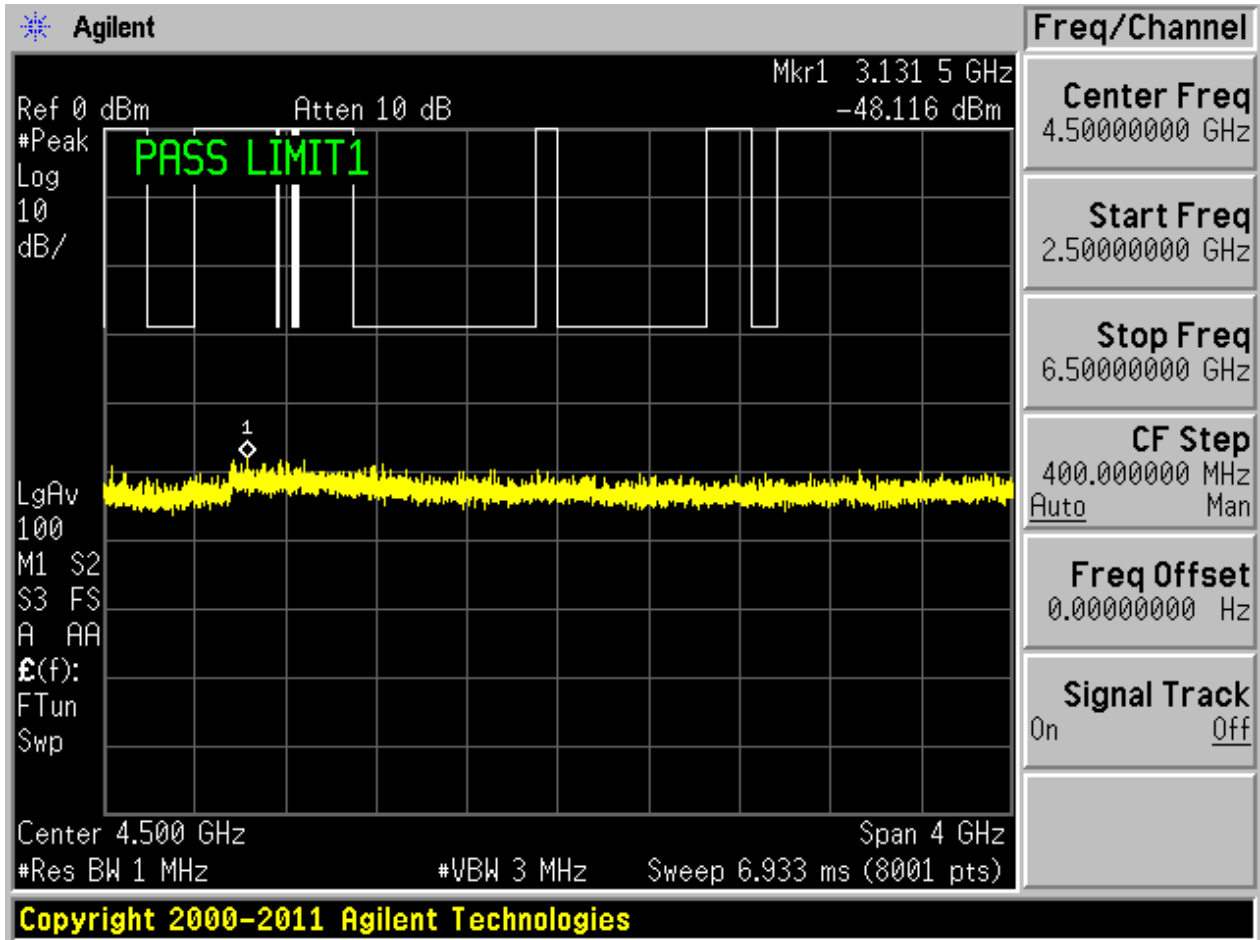


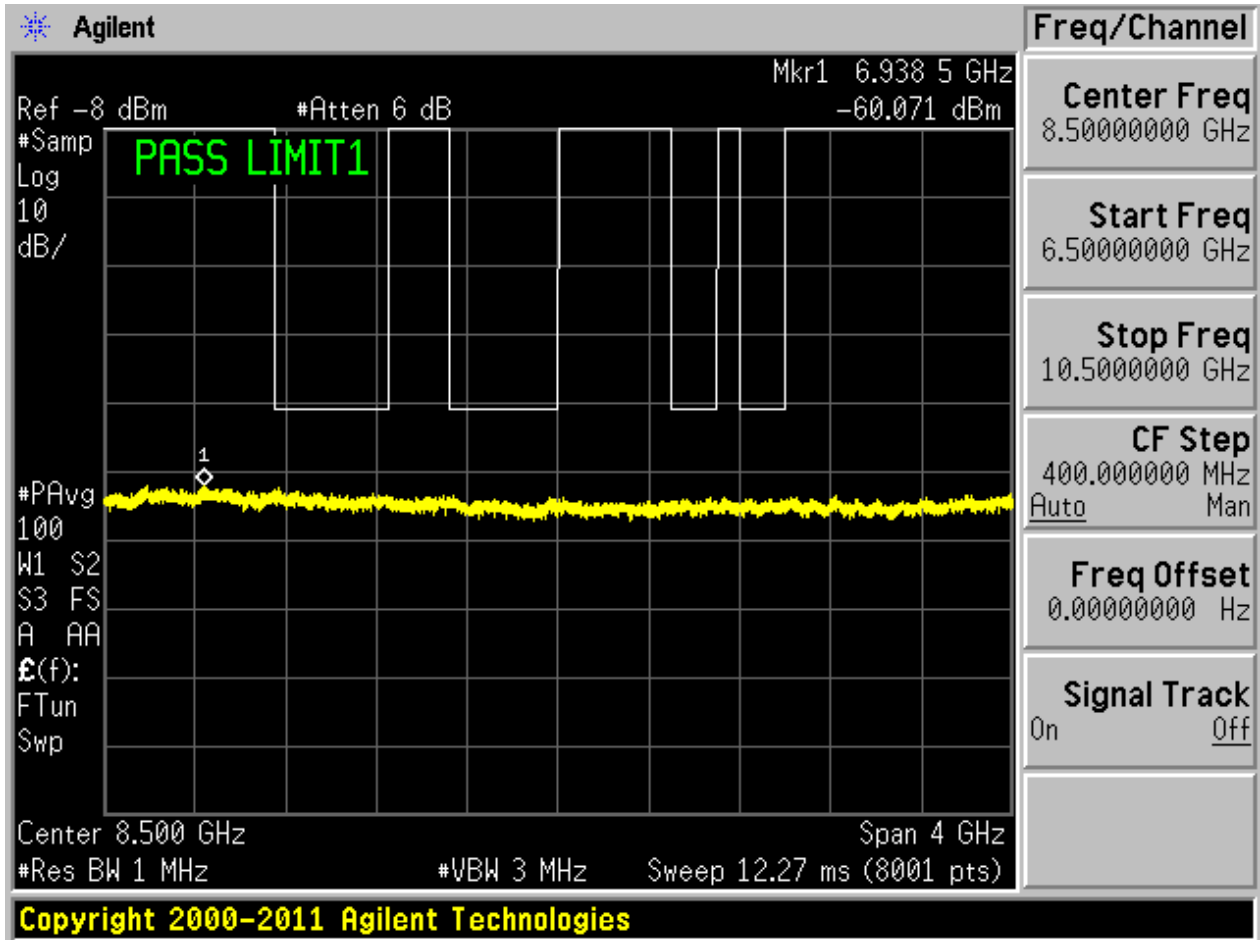


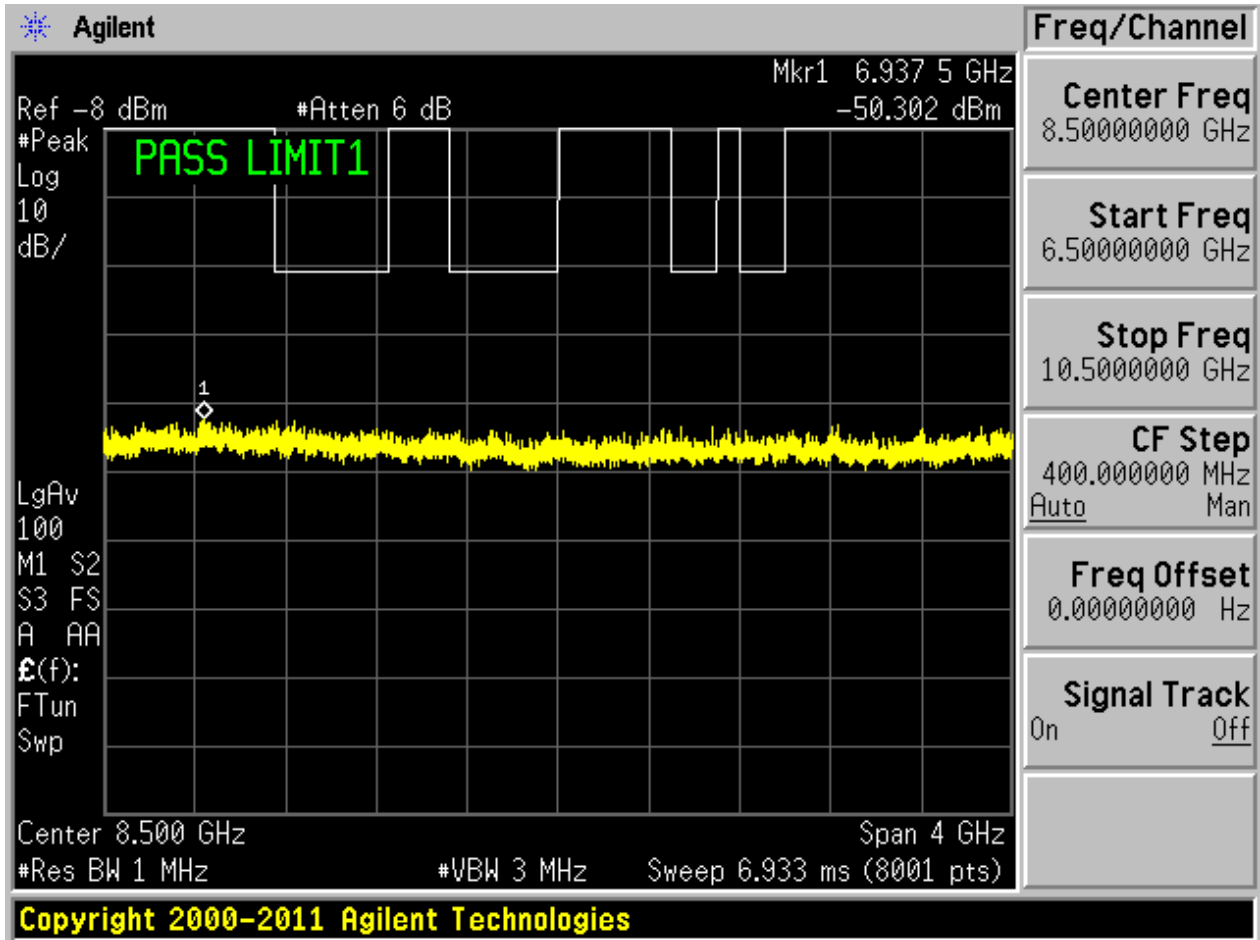


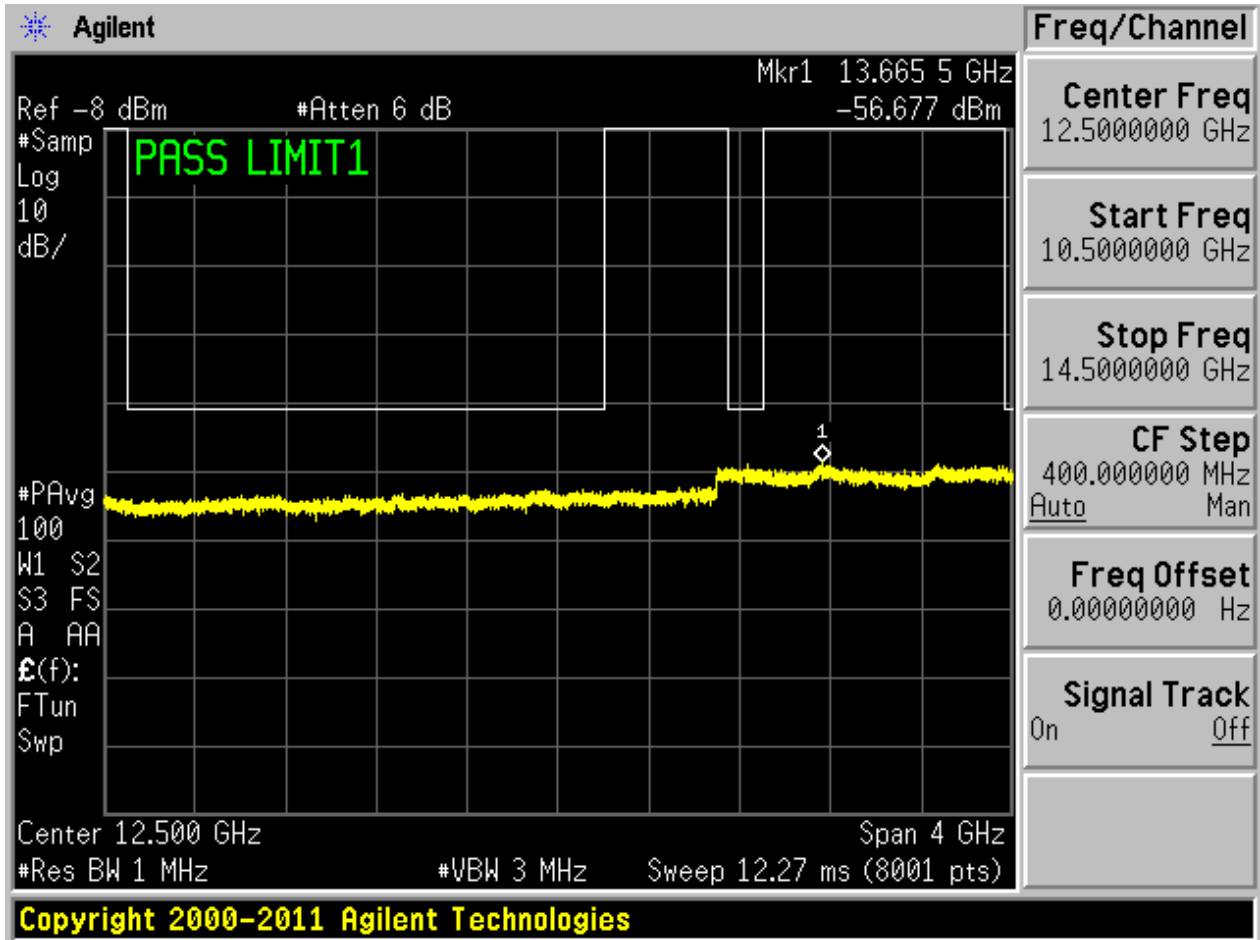


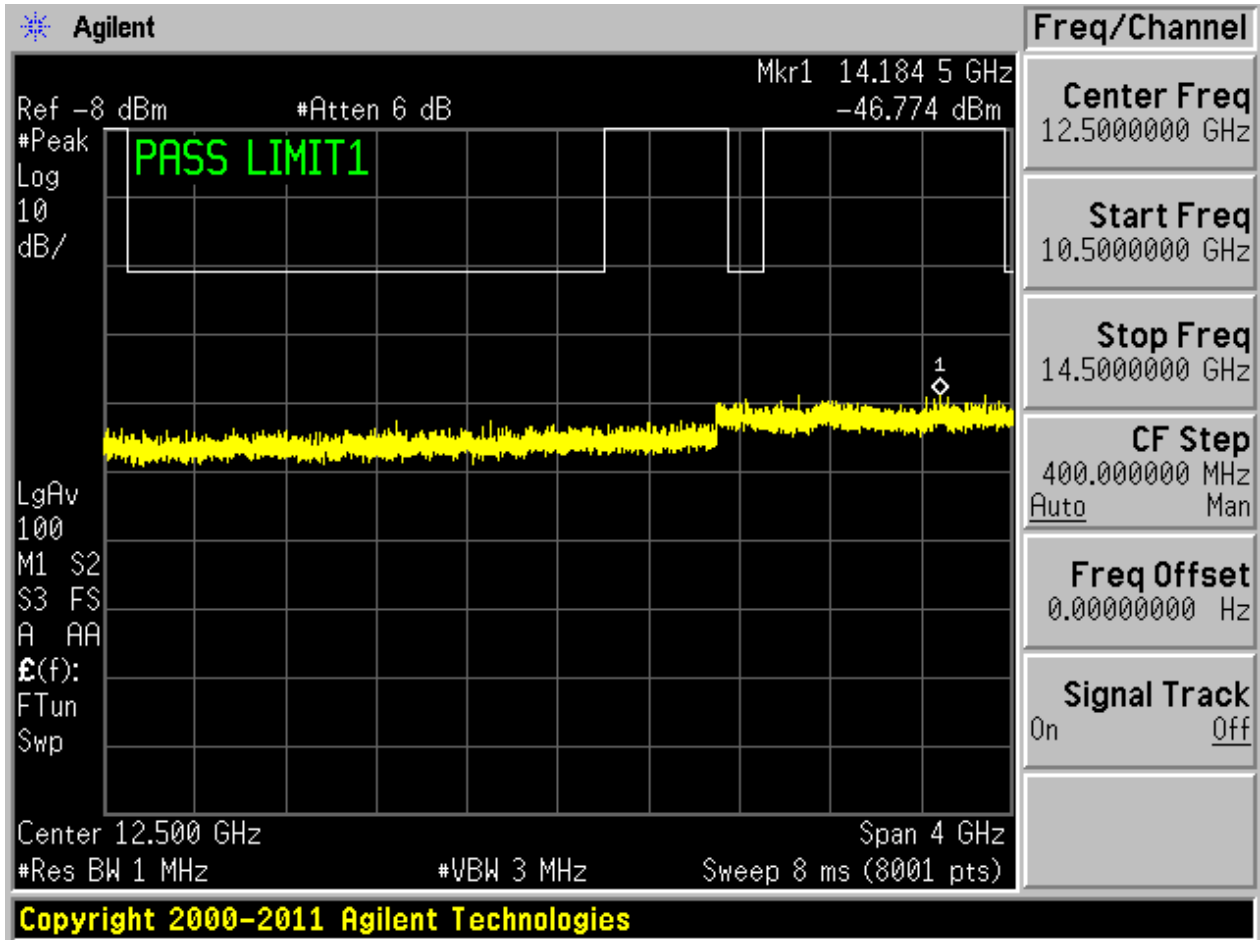


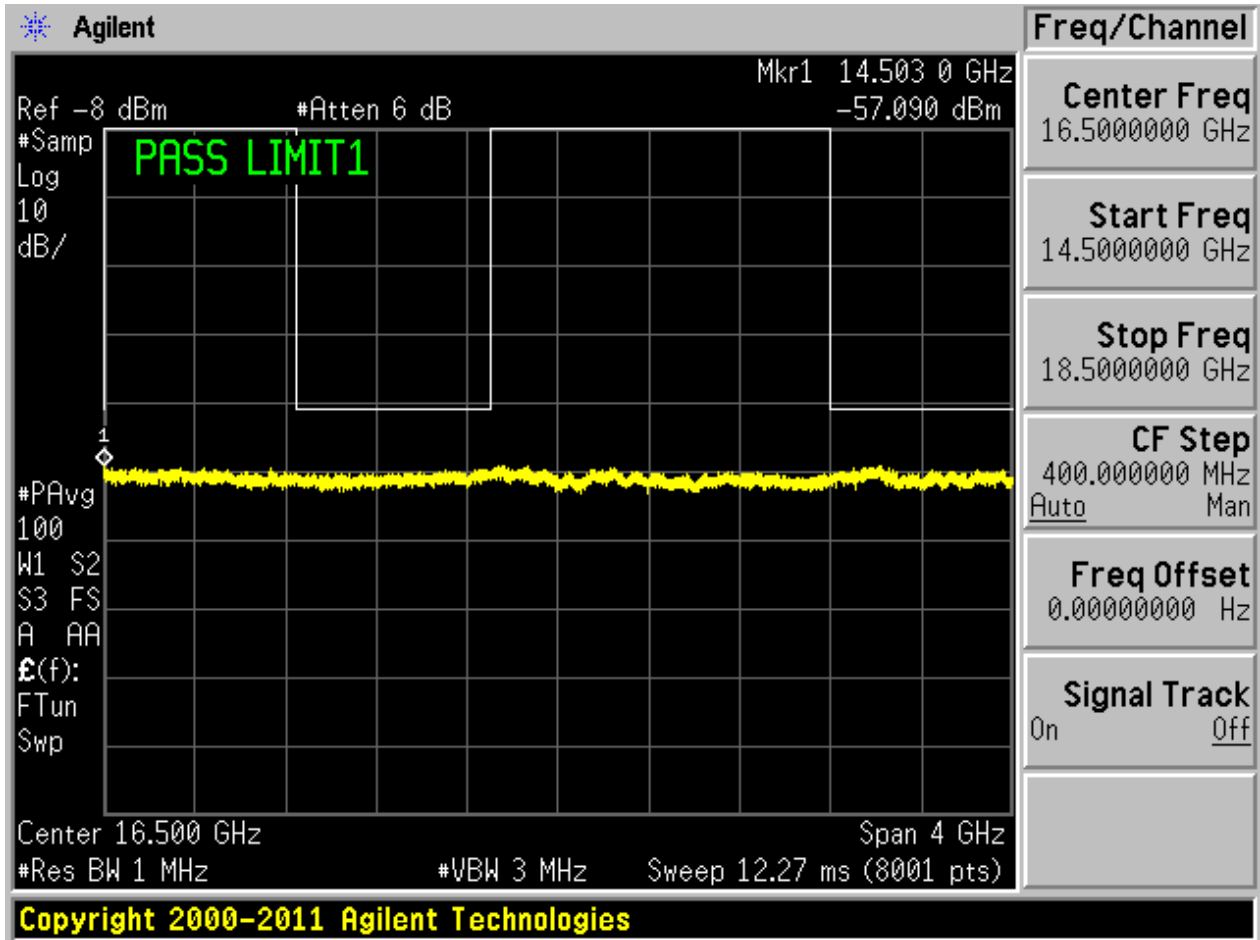


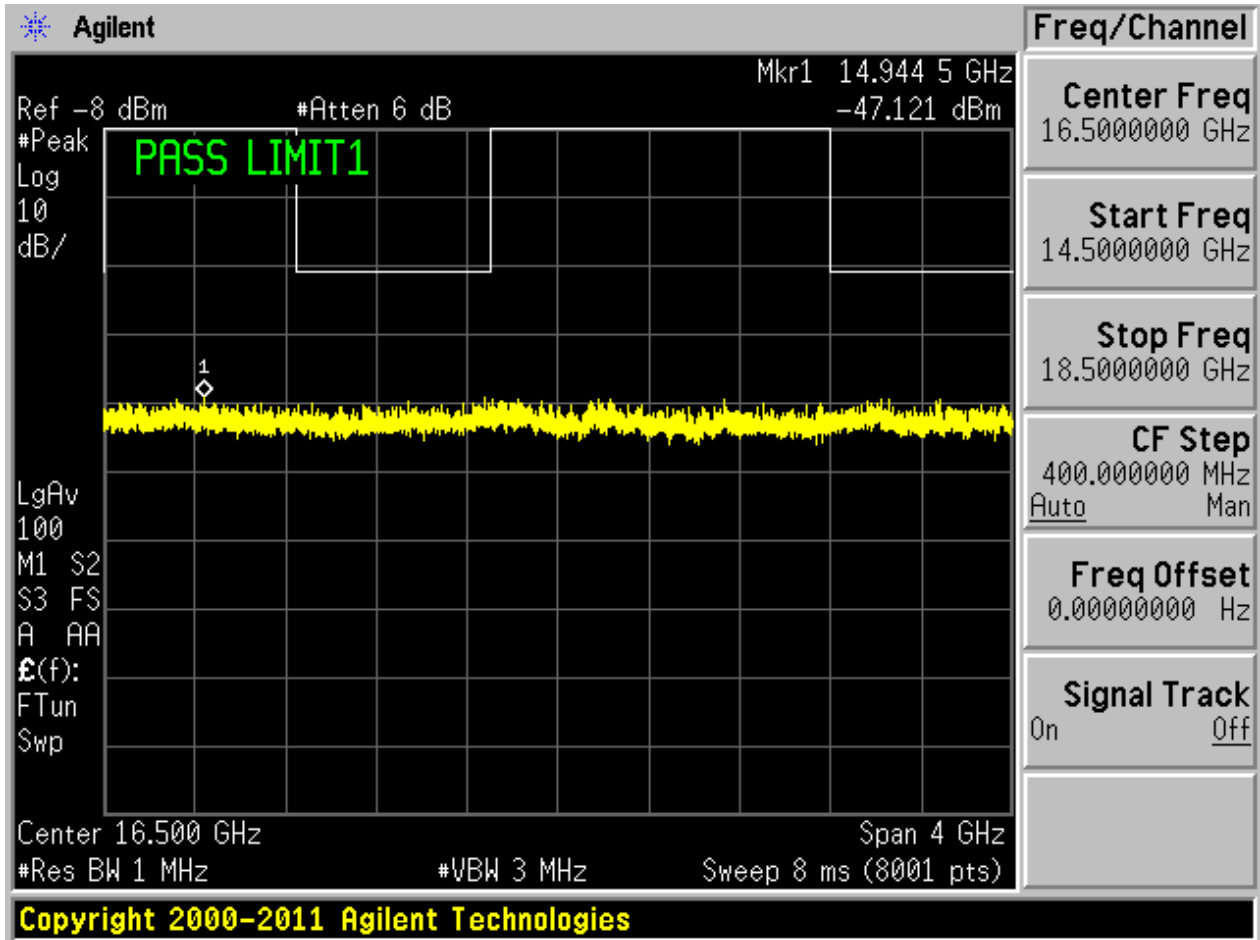


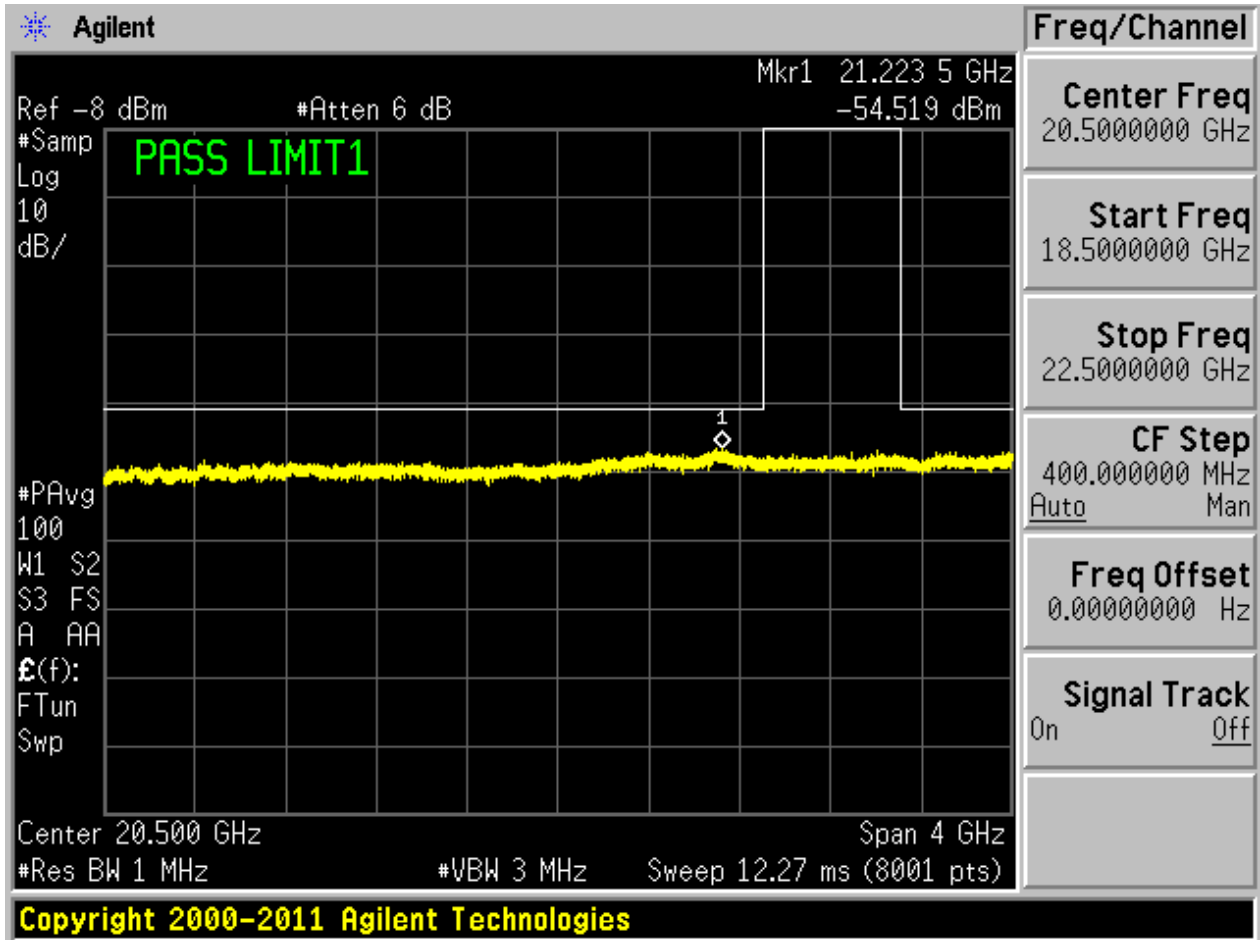


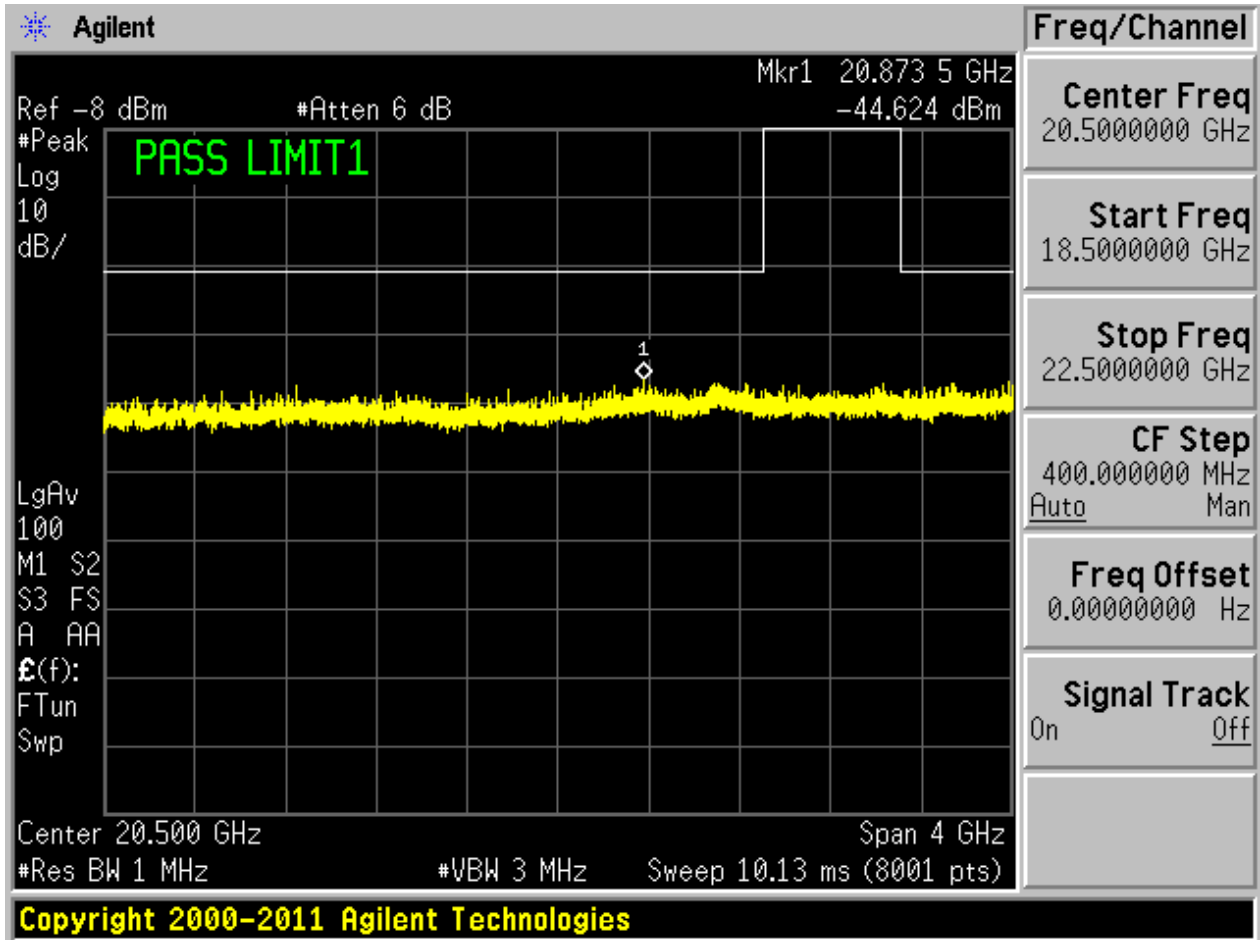


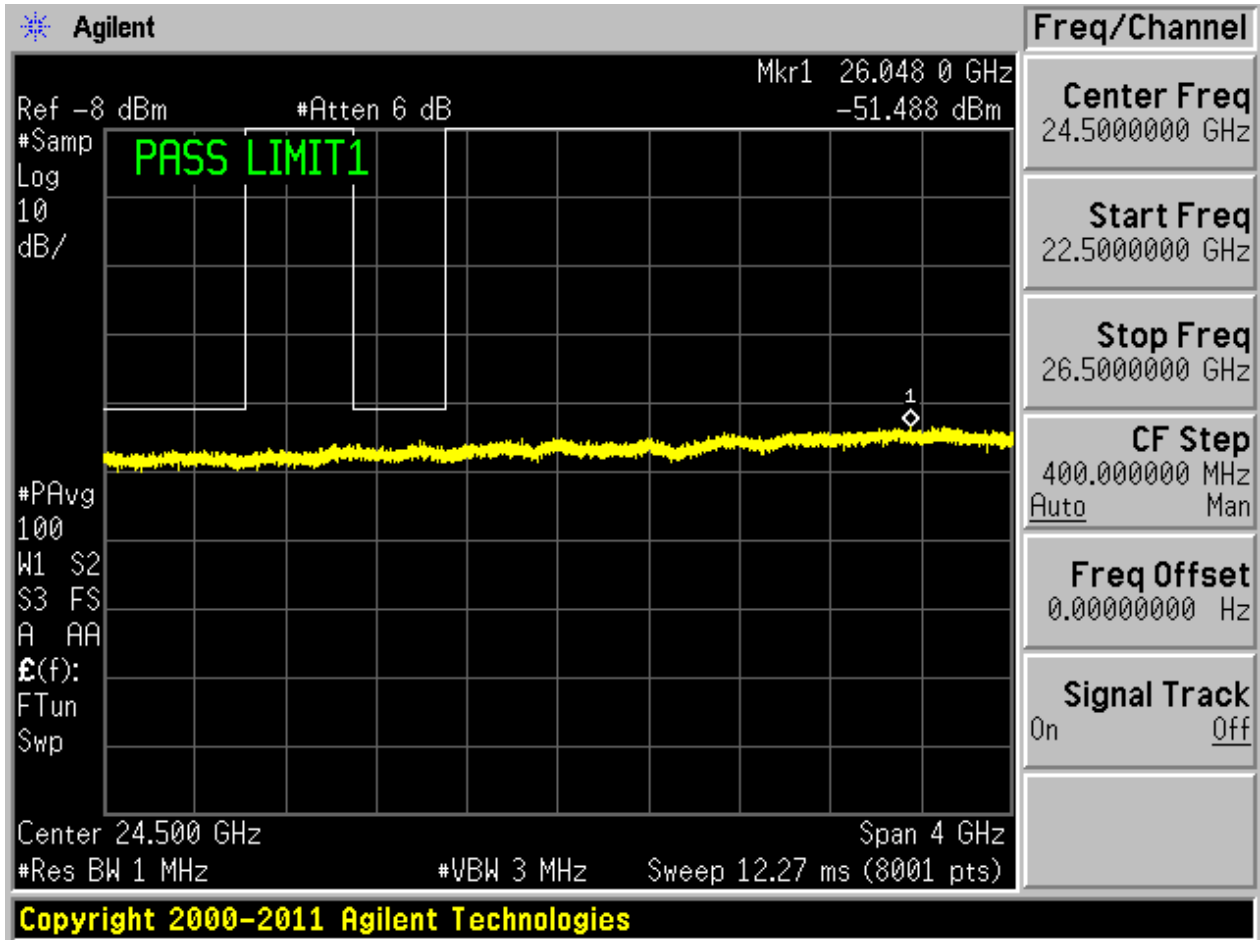


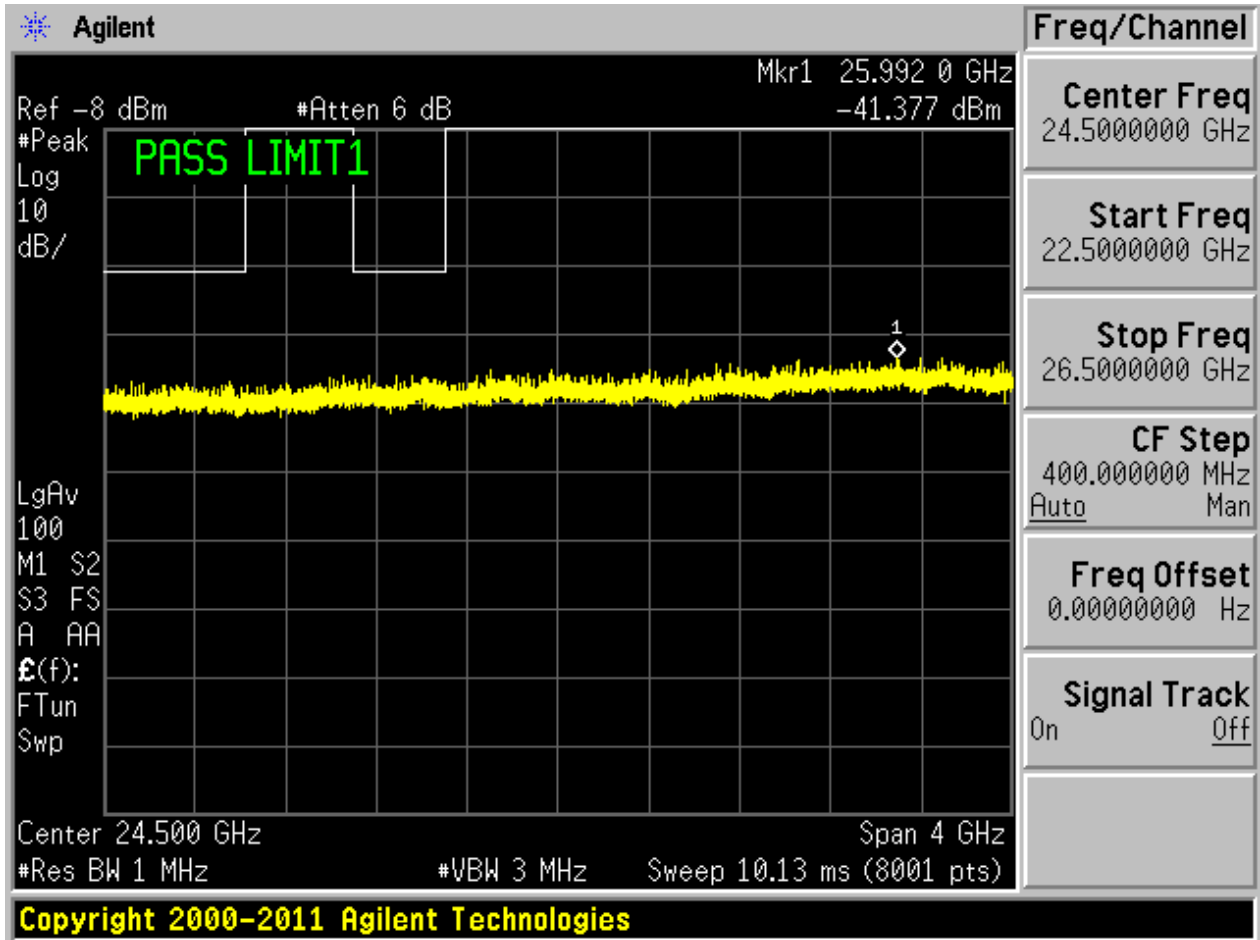




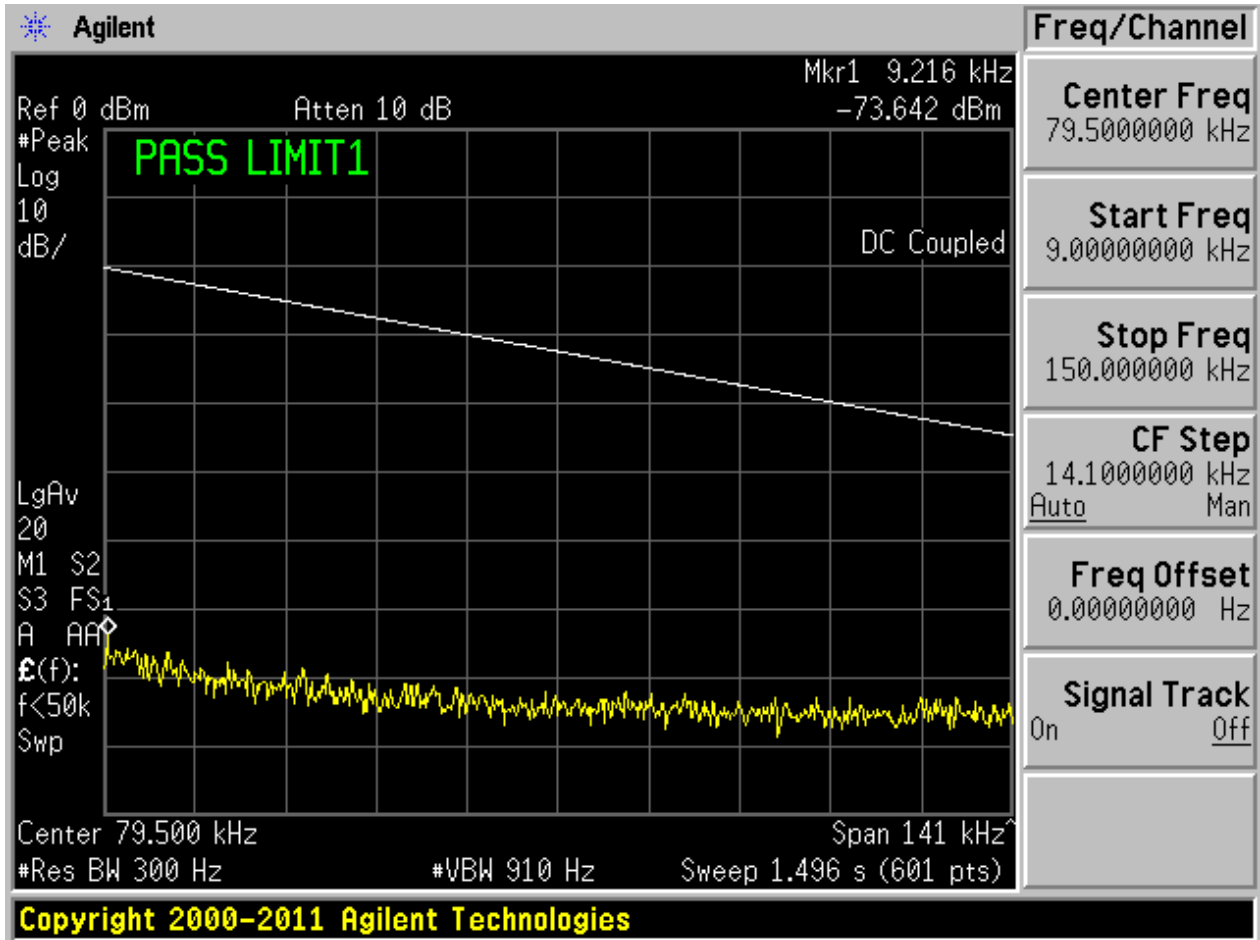


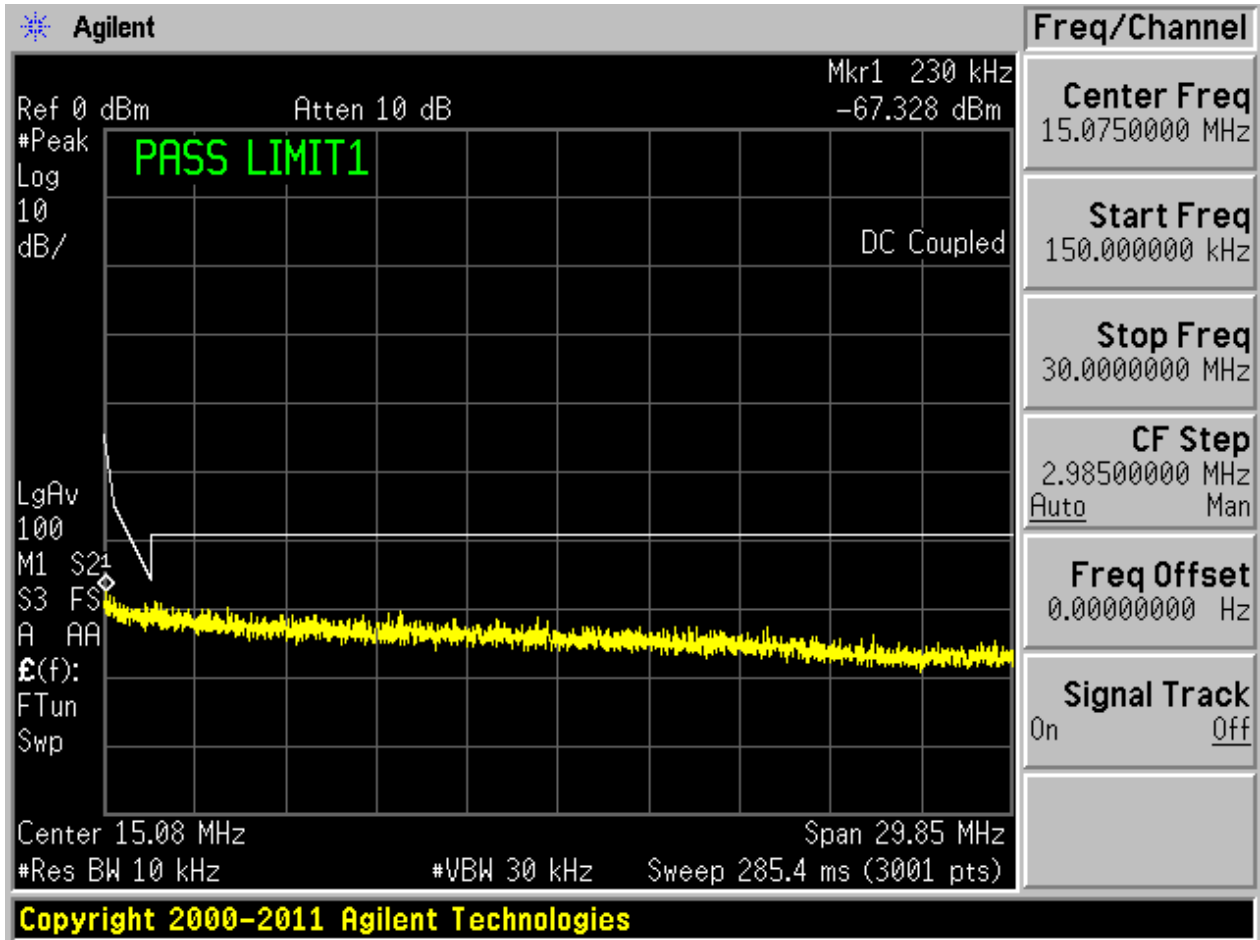


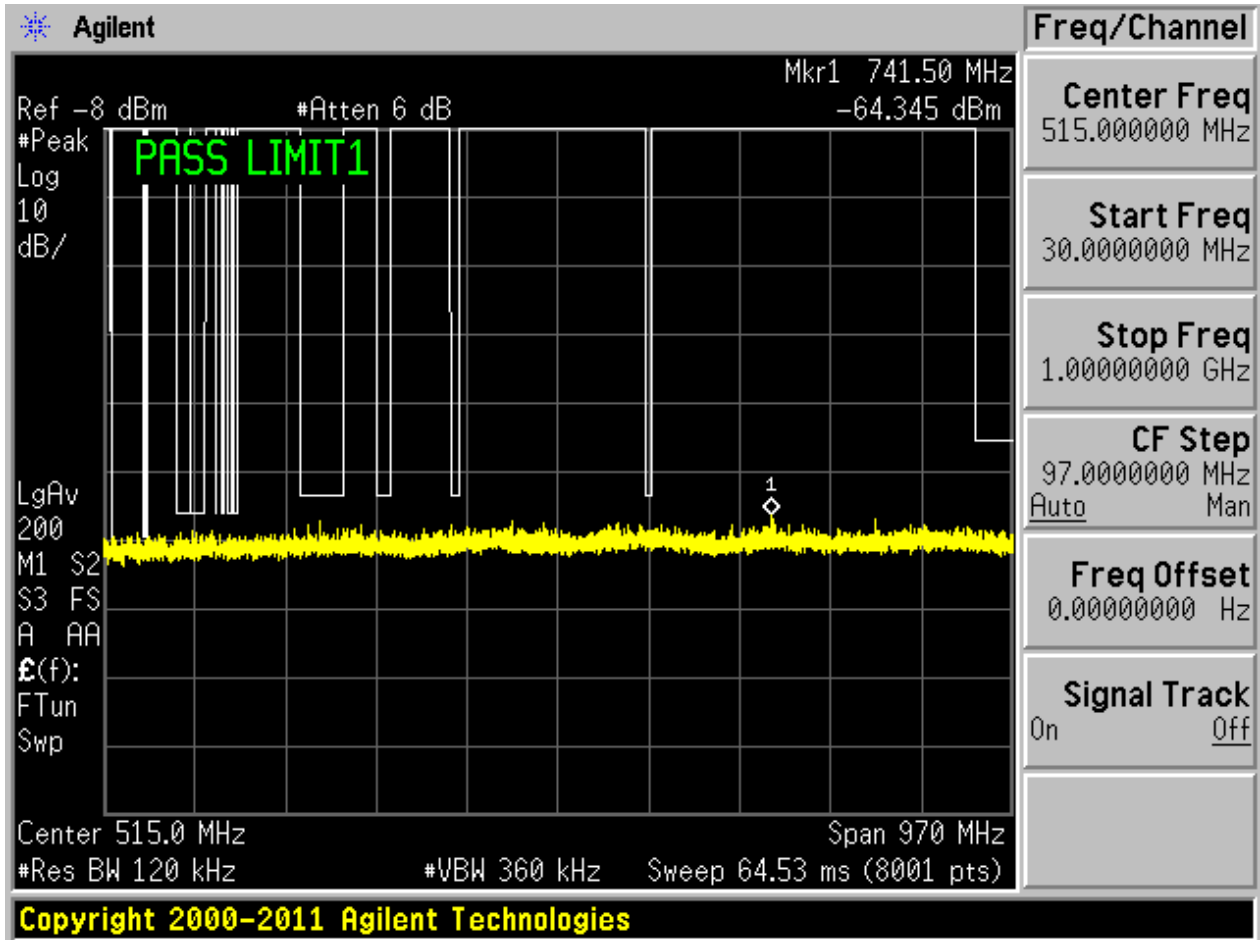


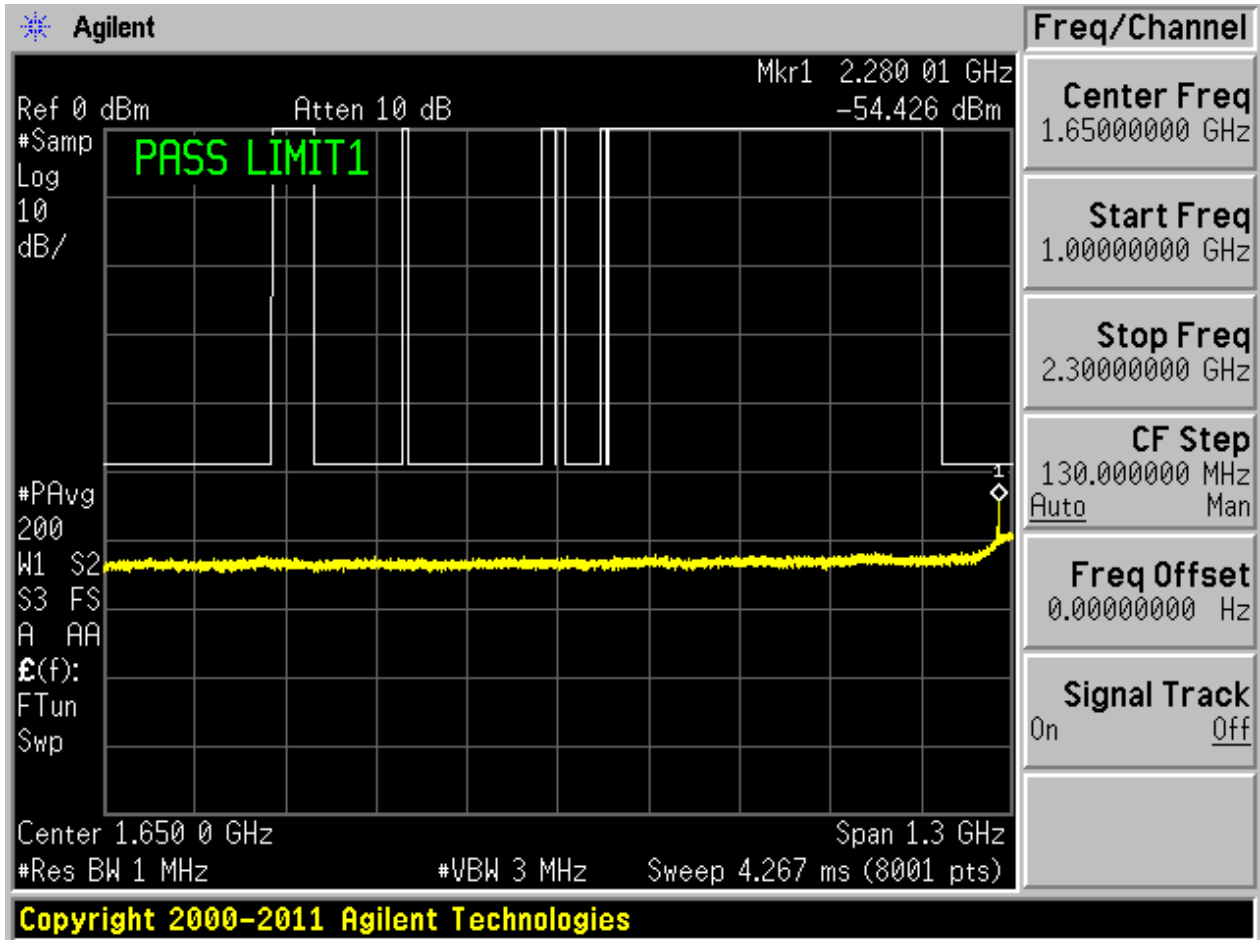


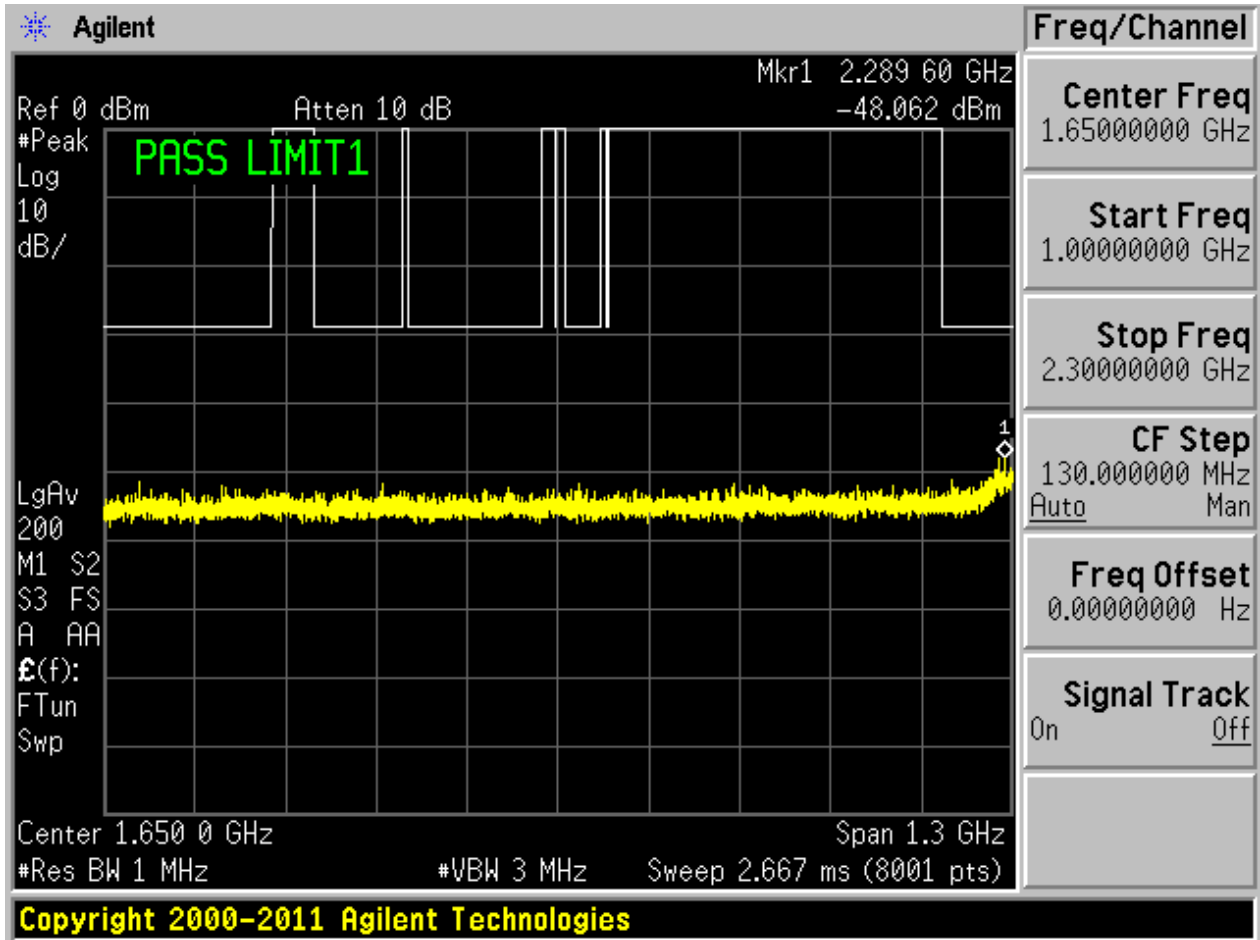
2.12.2 Ant 2 (Trace#2)

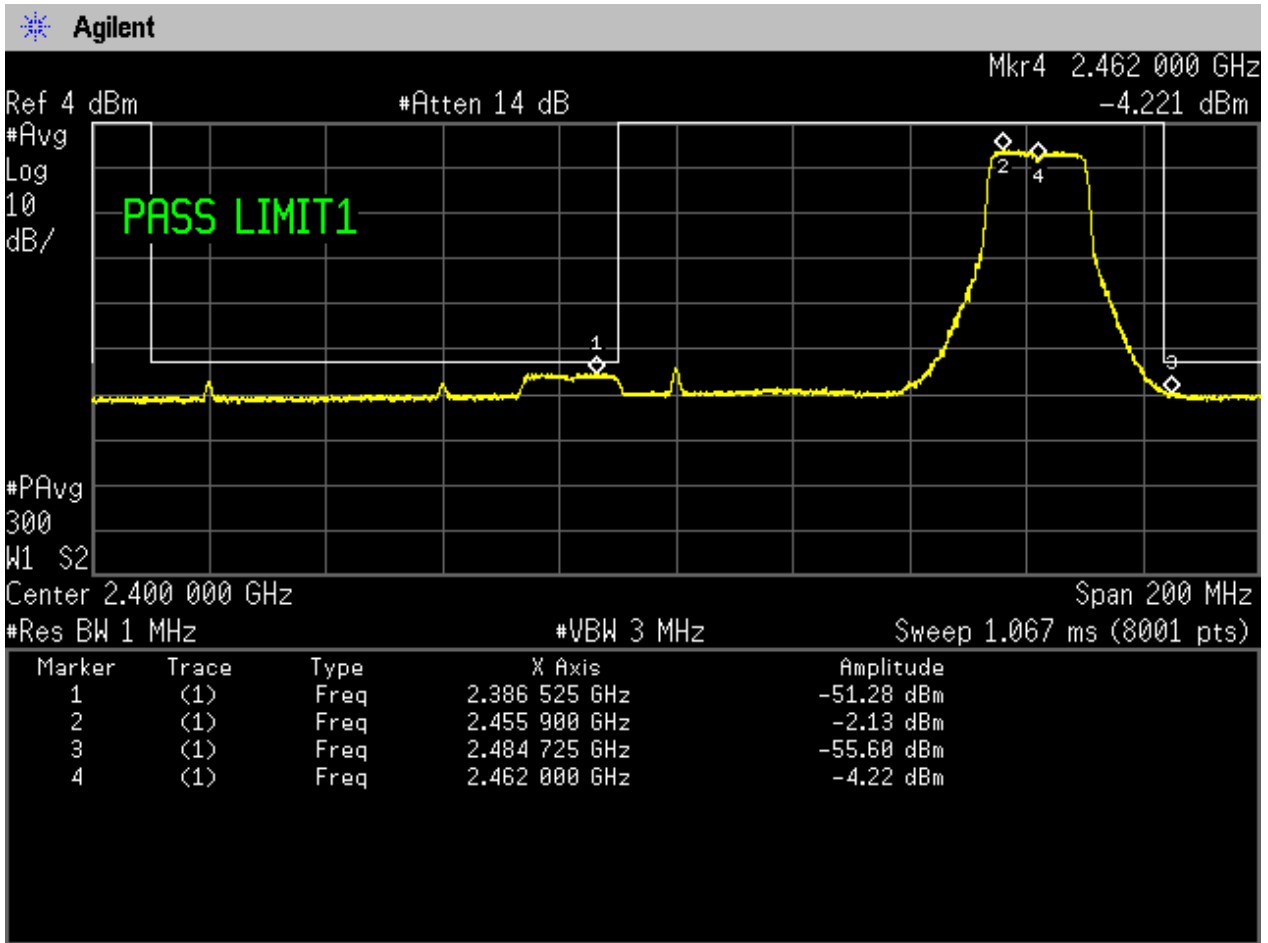


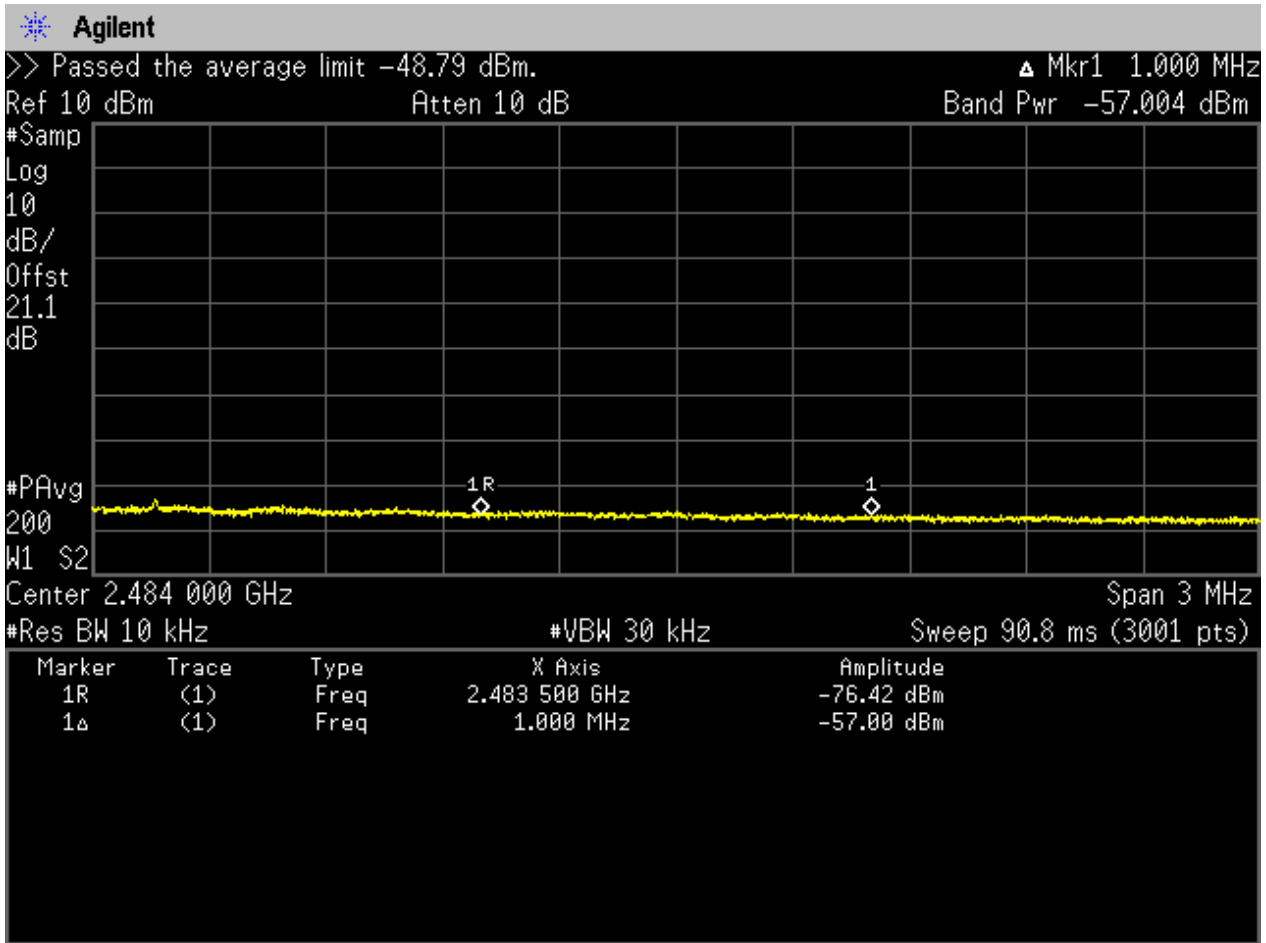


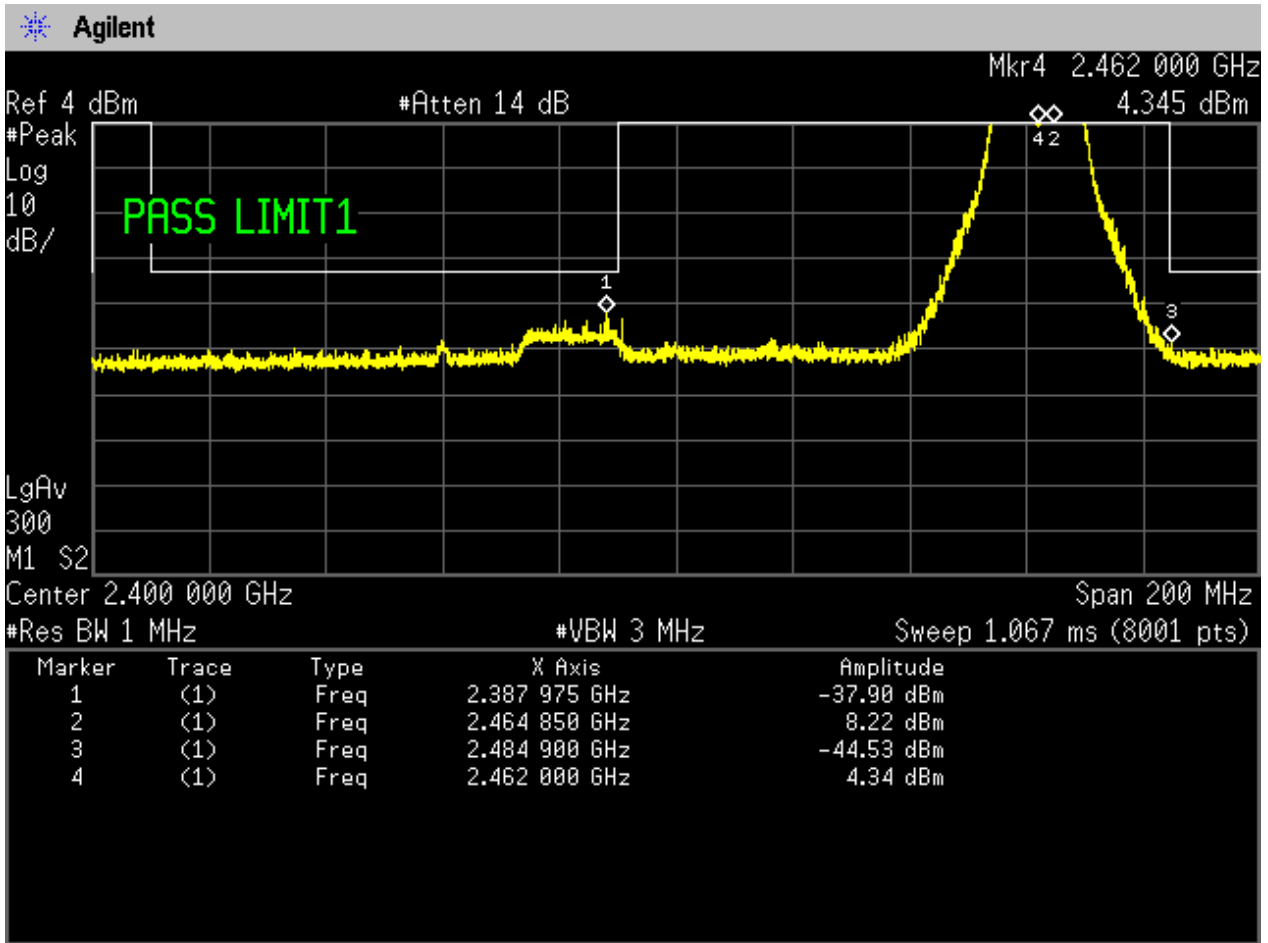


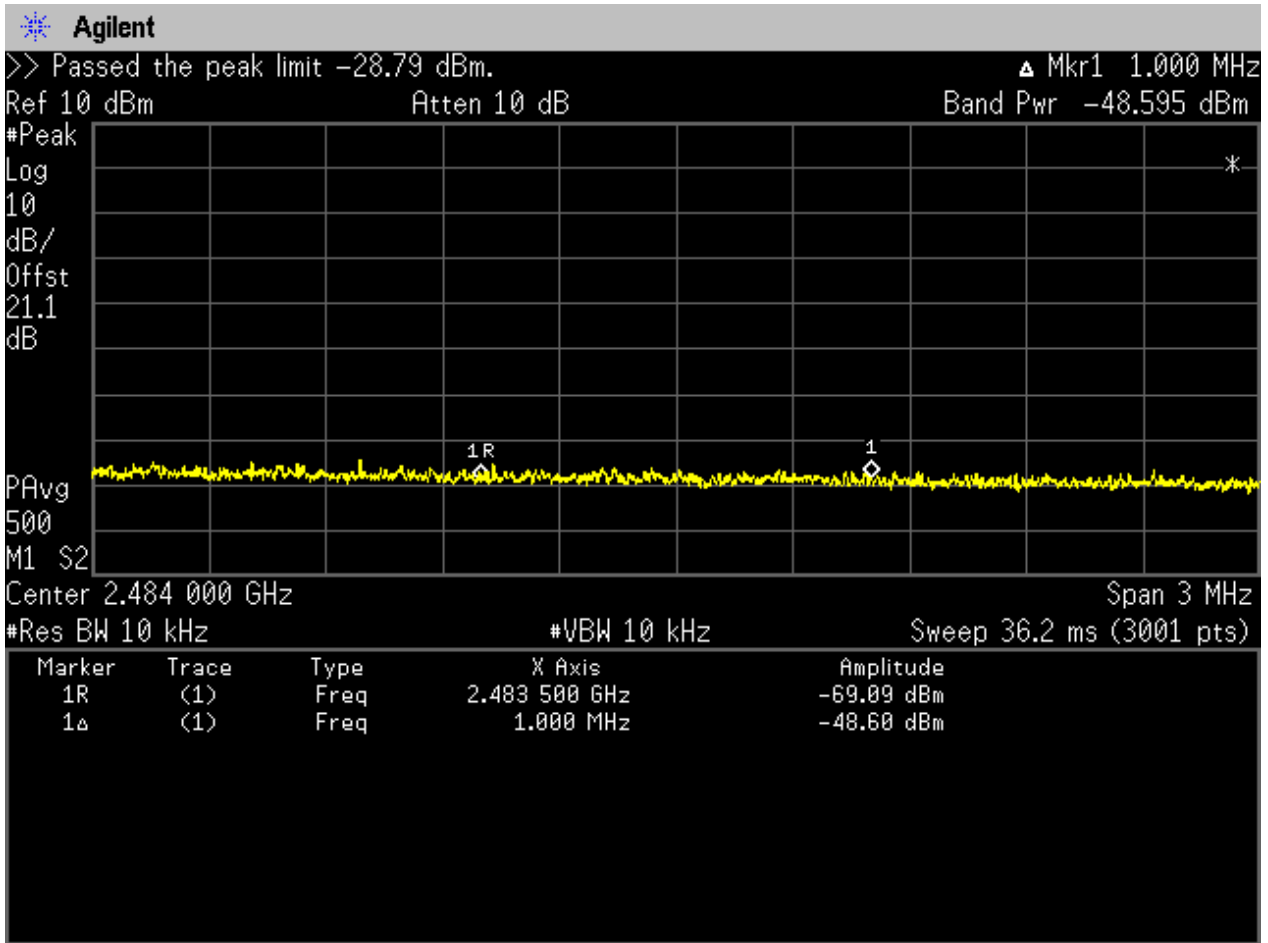


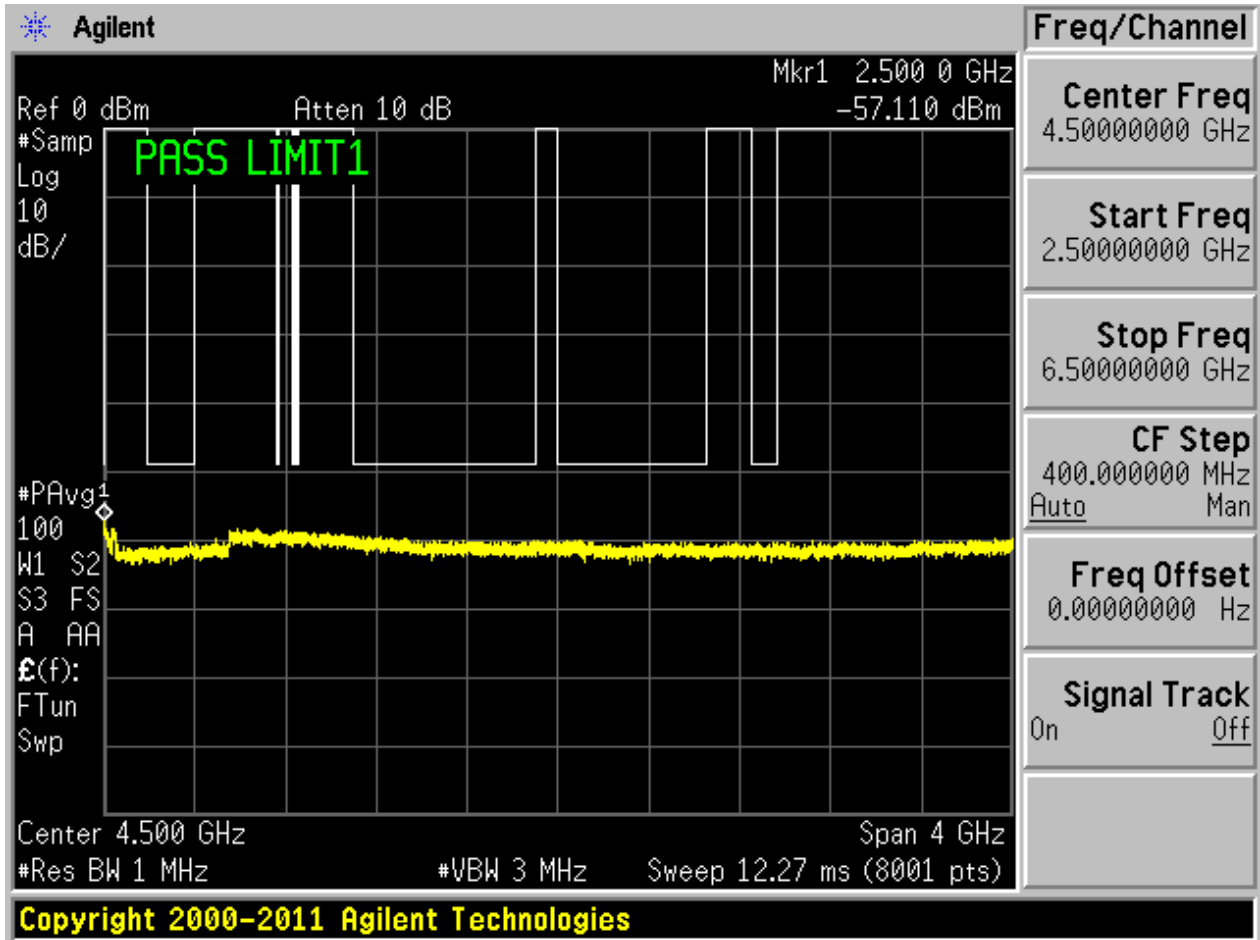


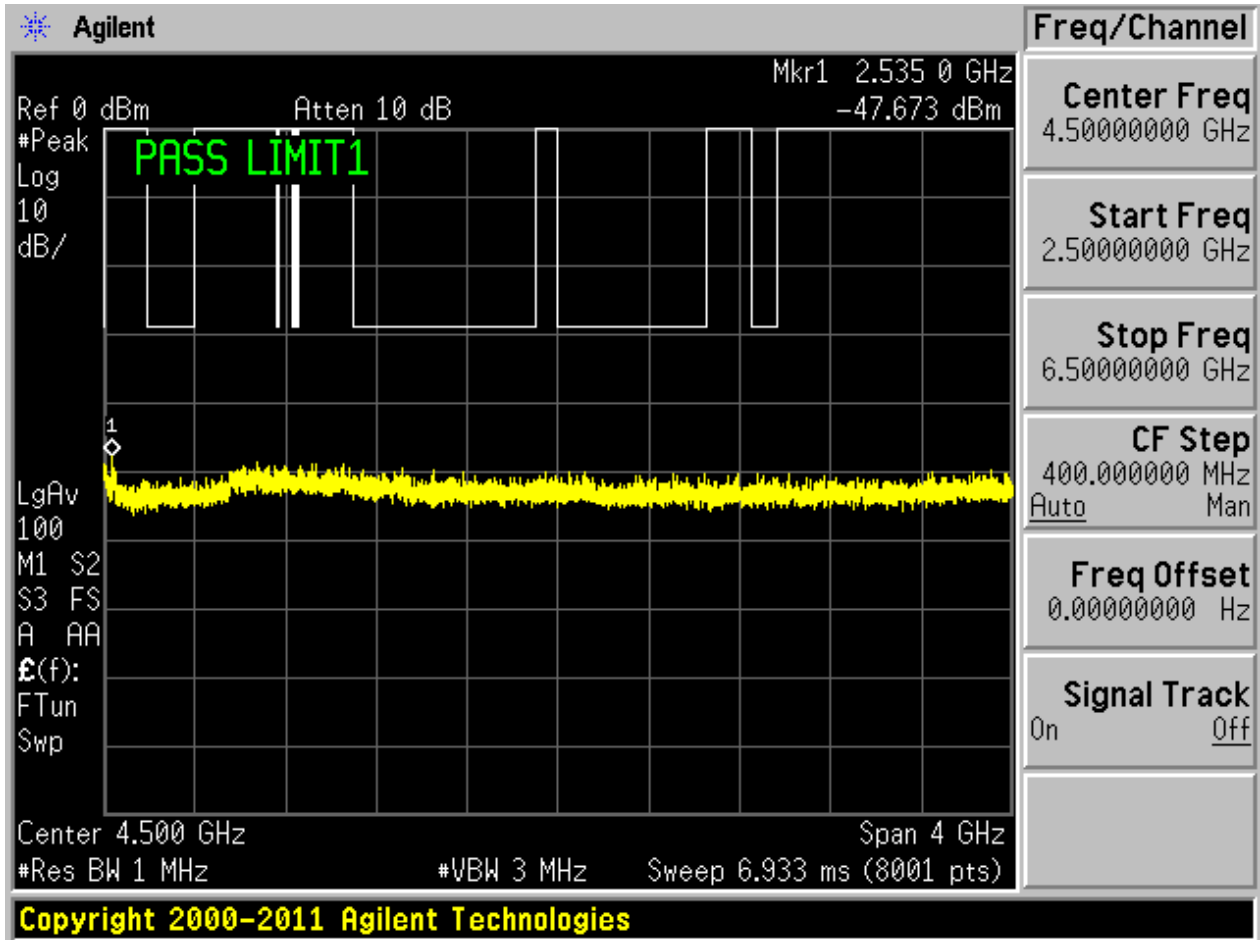


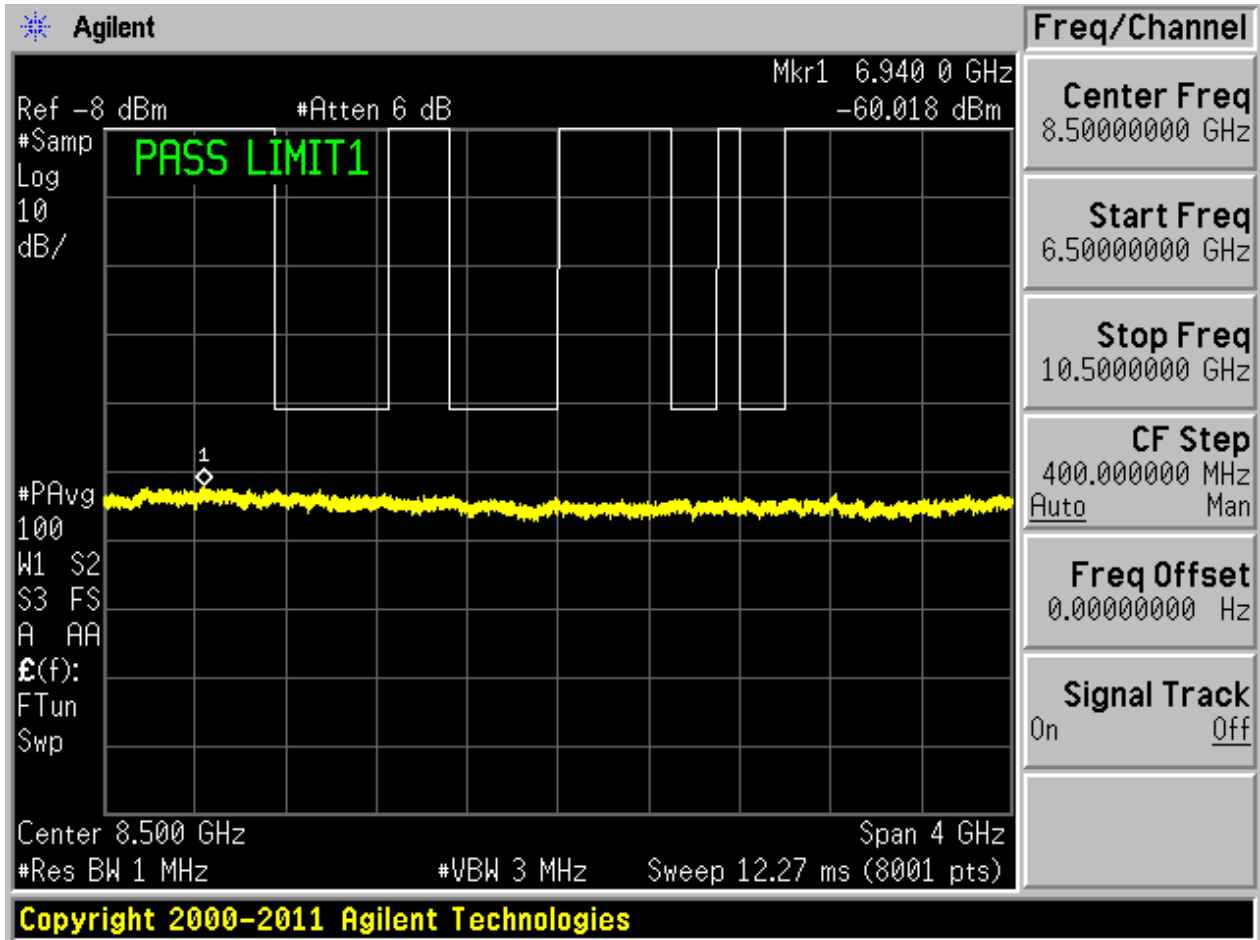


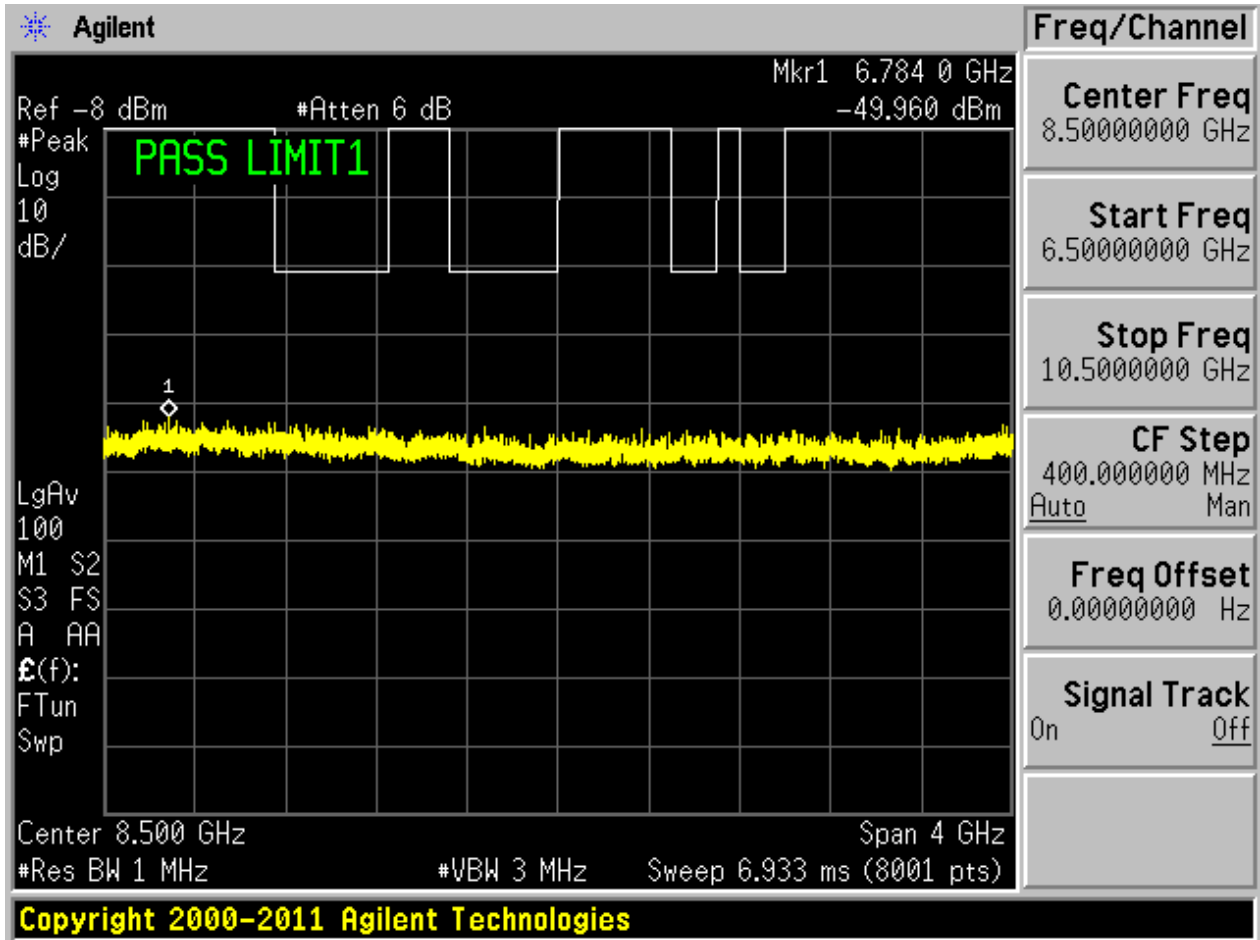


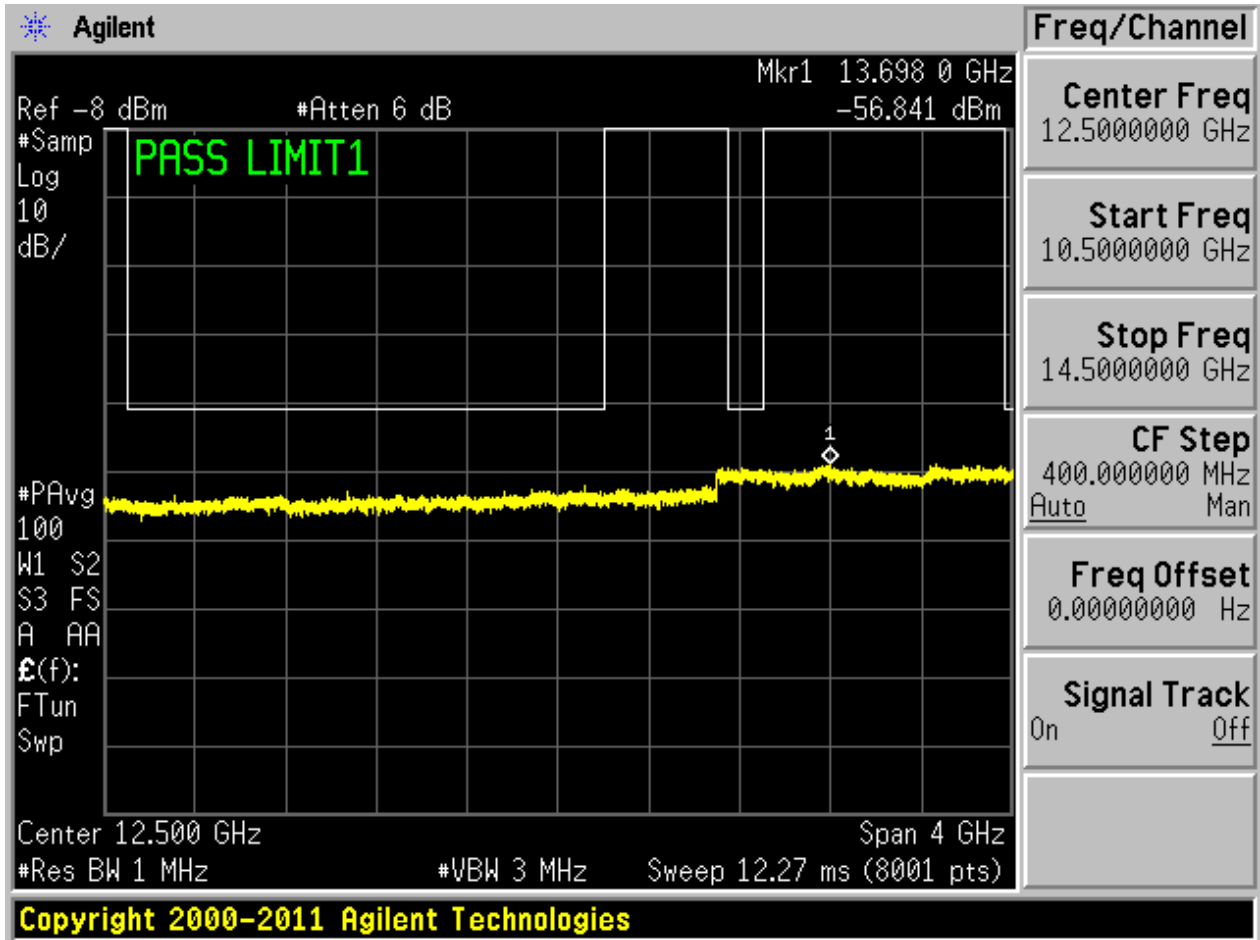


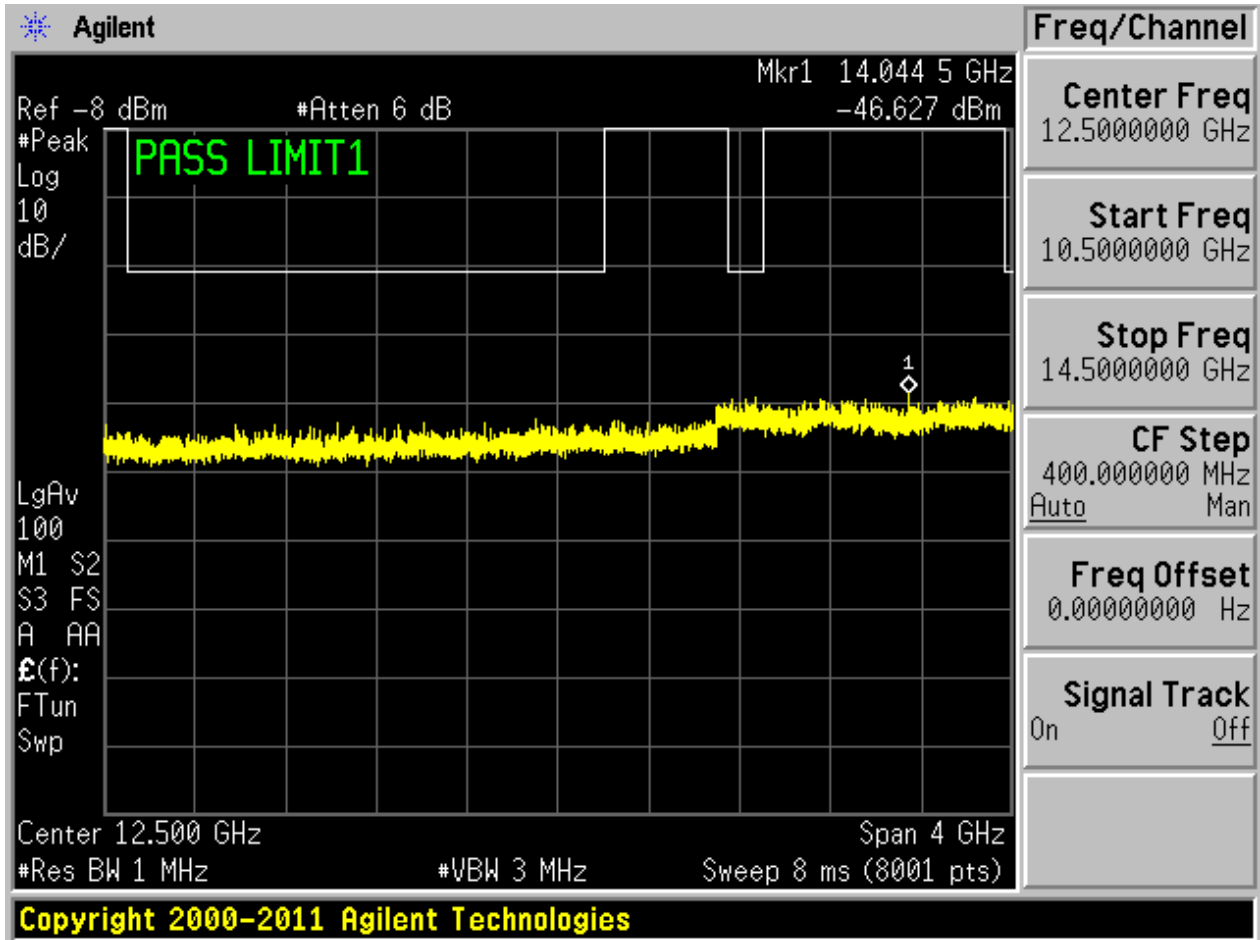


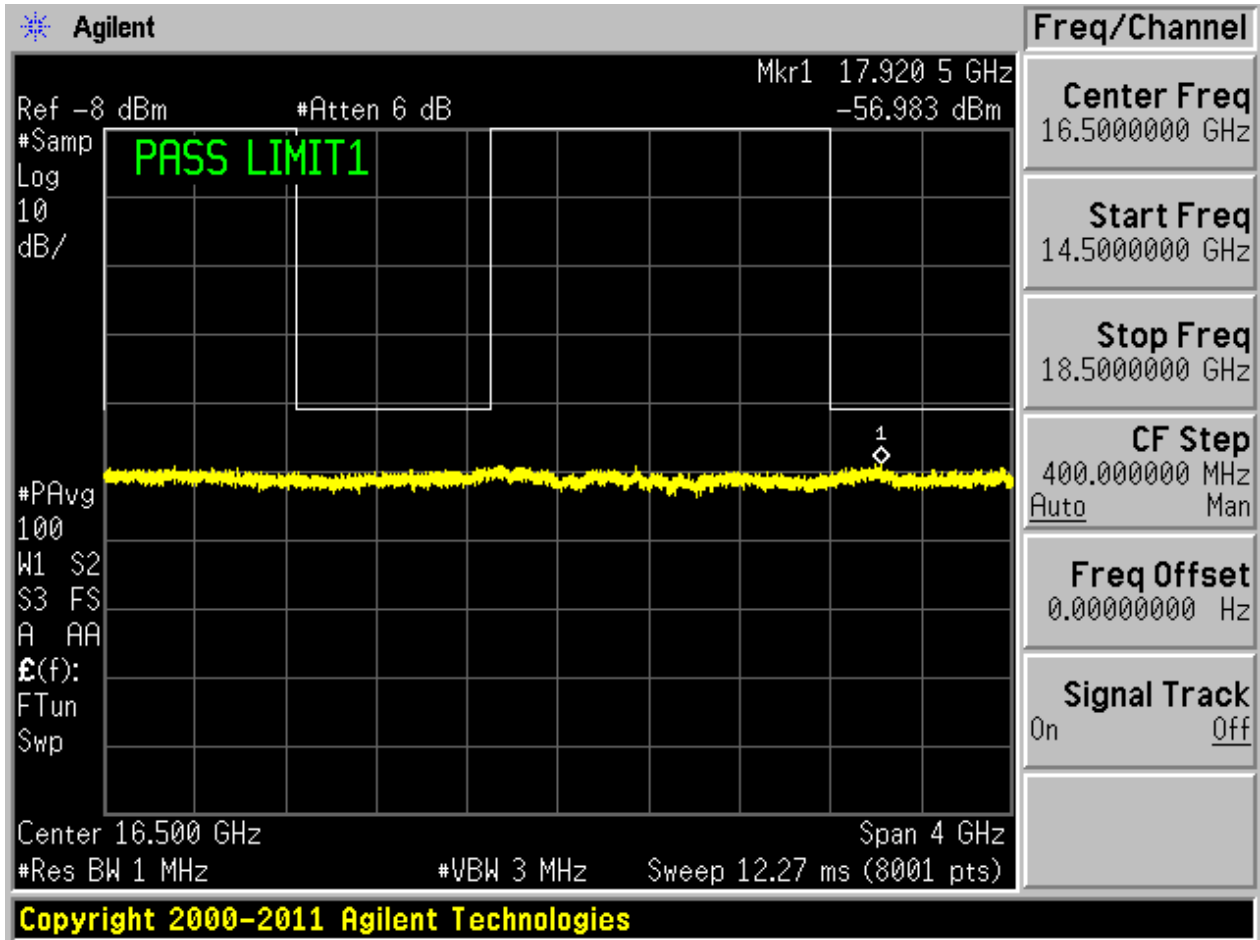


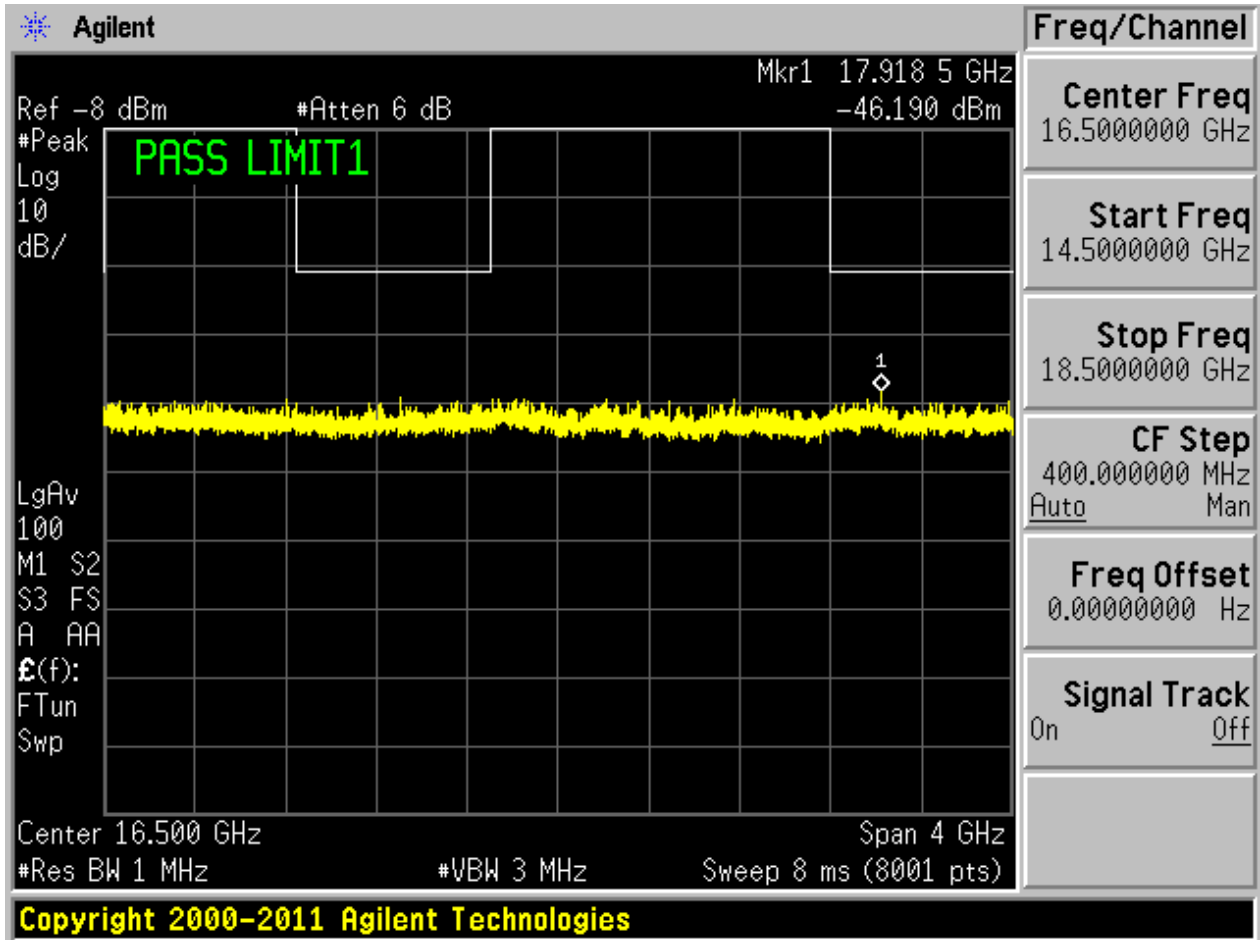


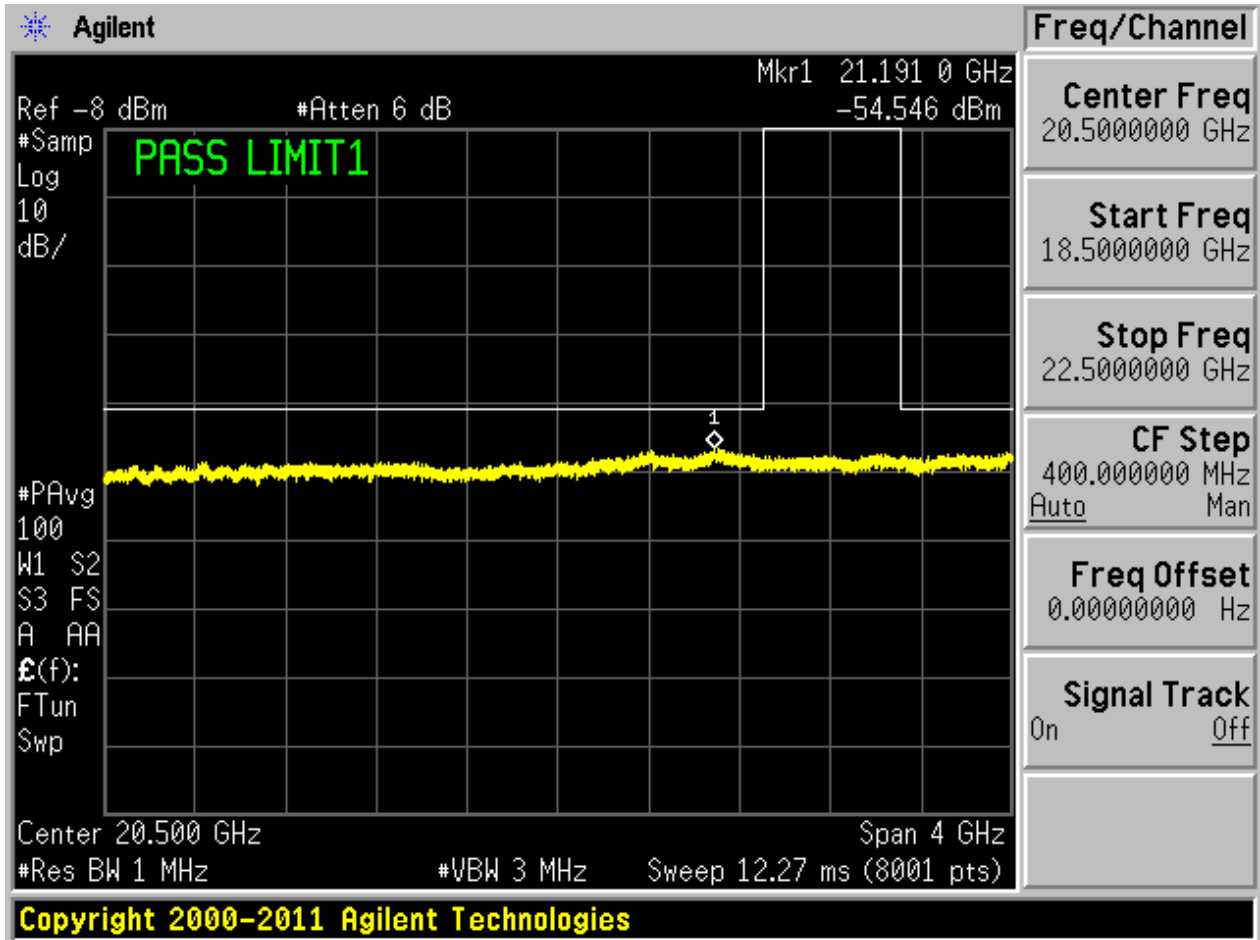


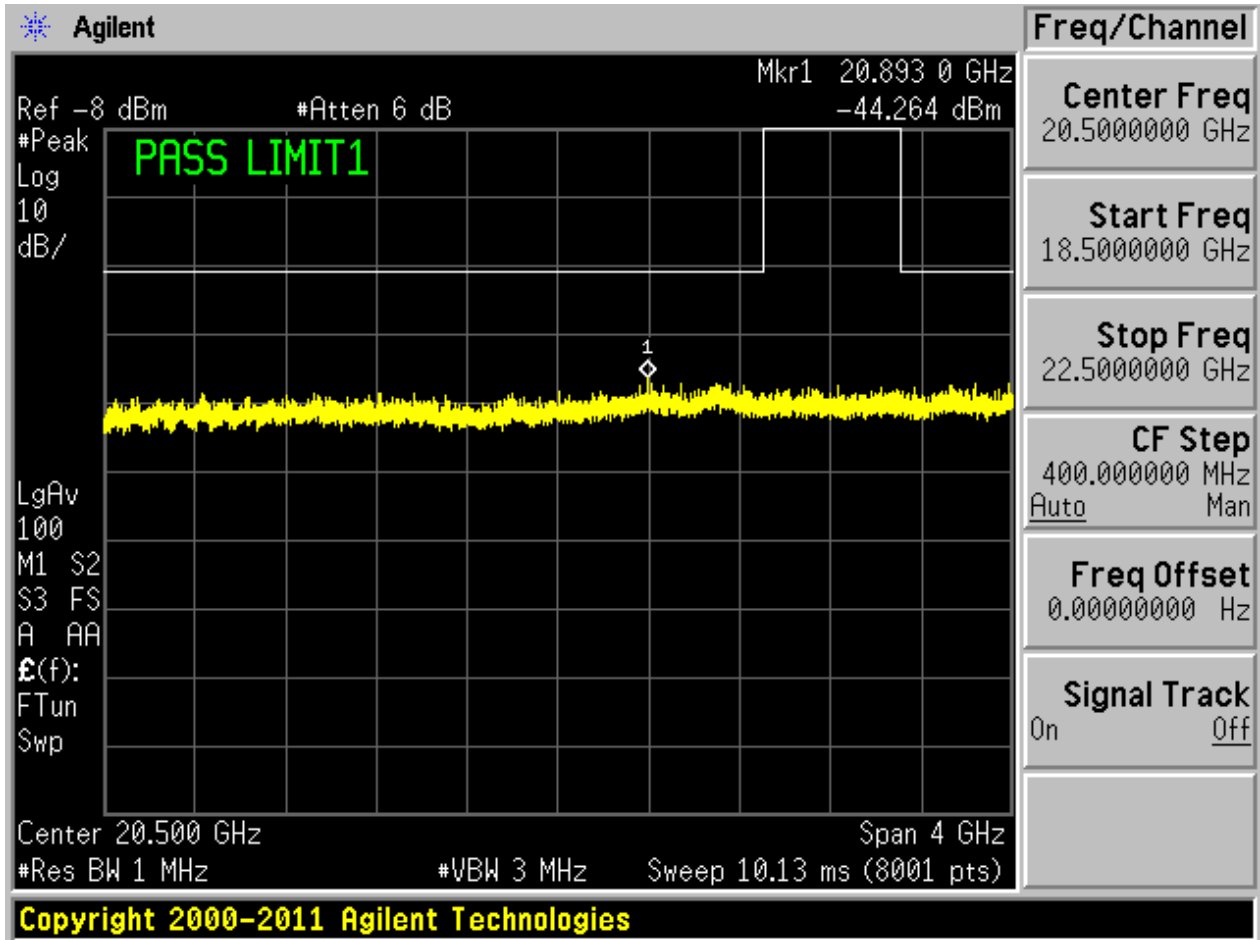


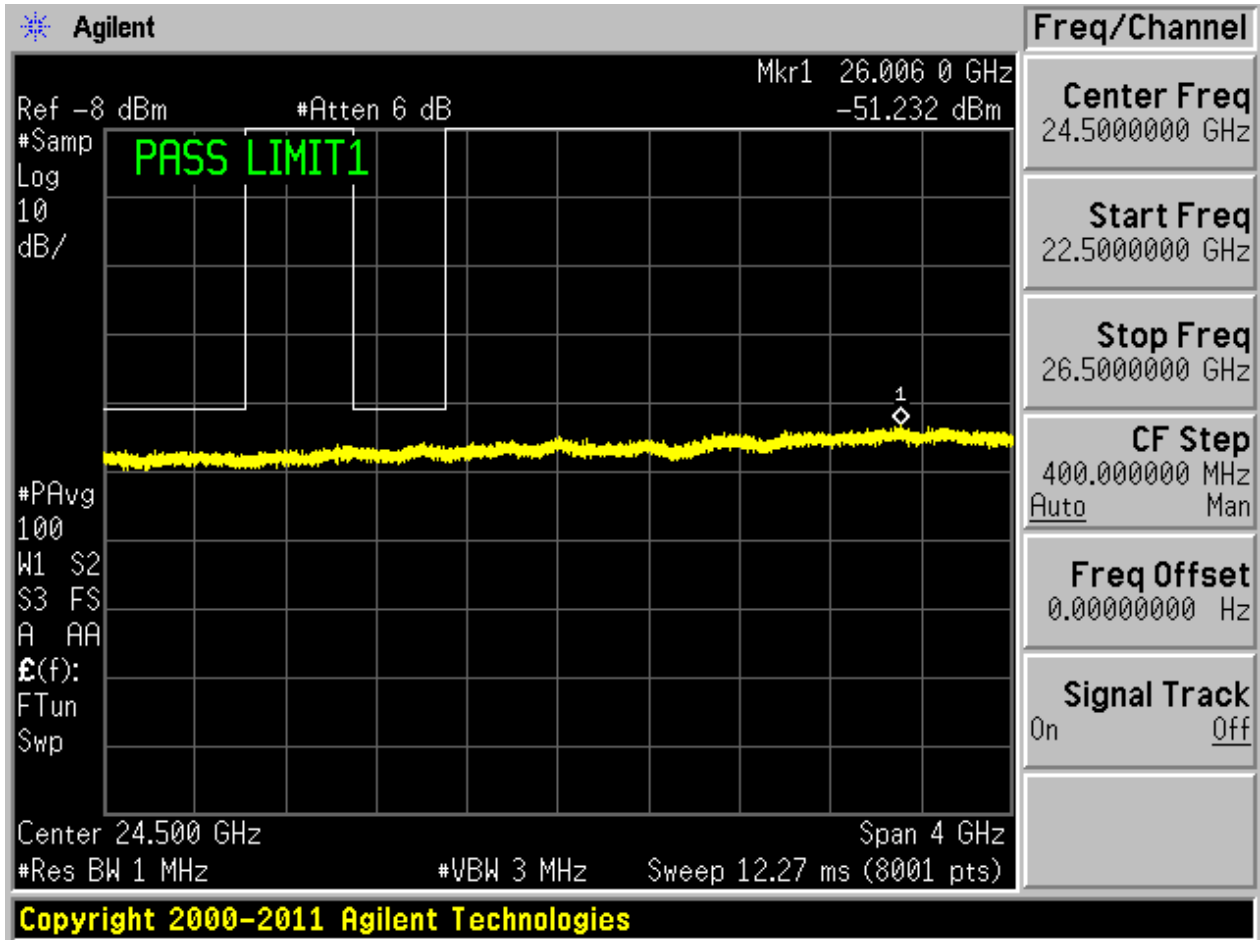


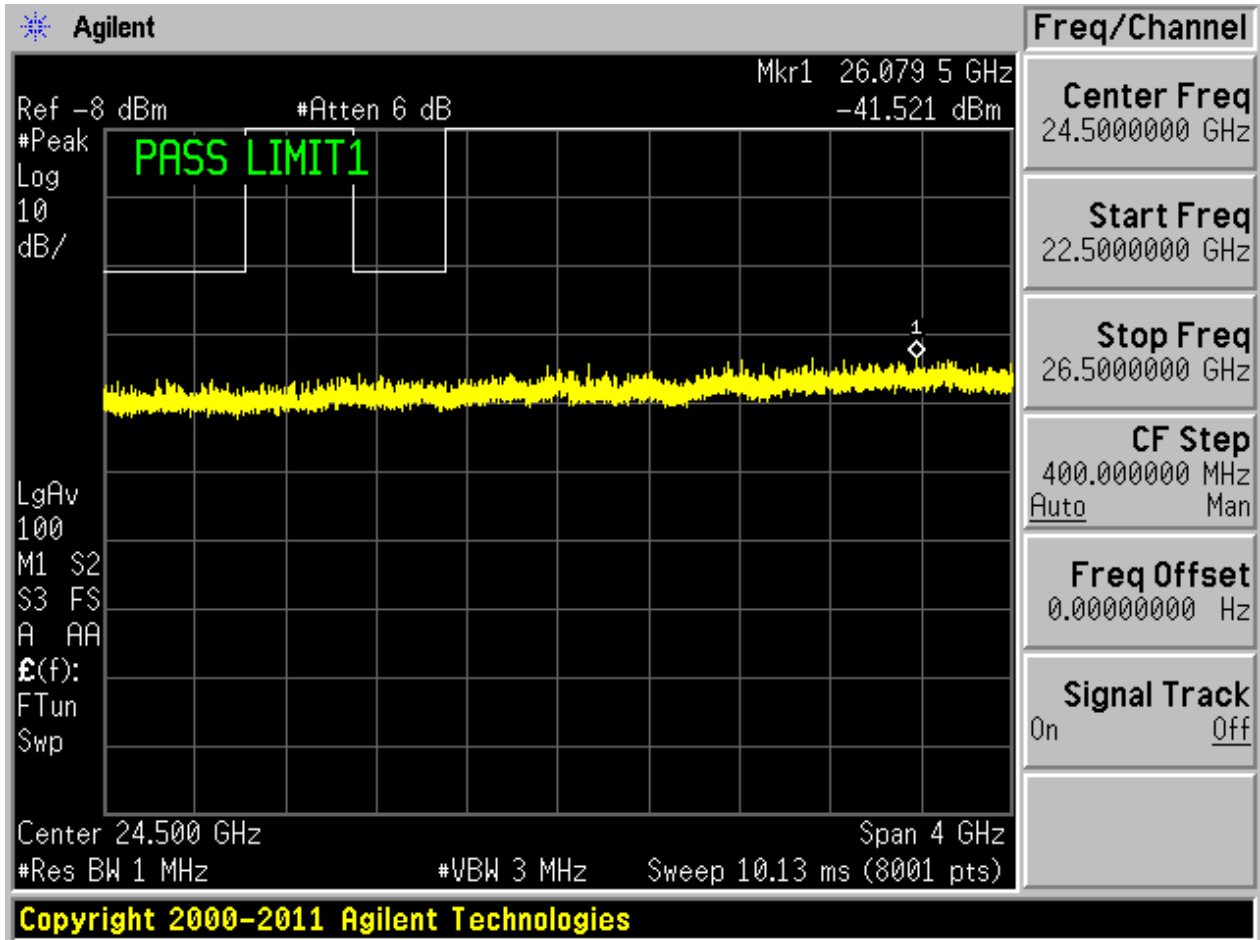








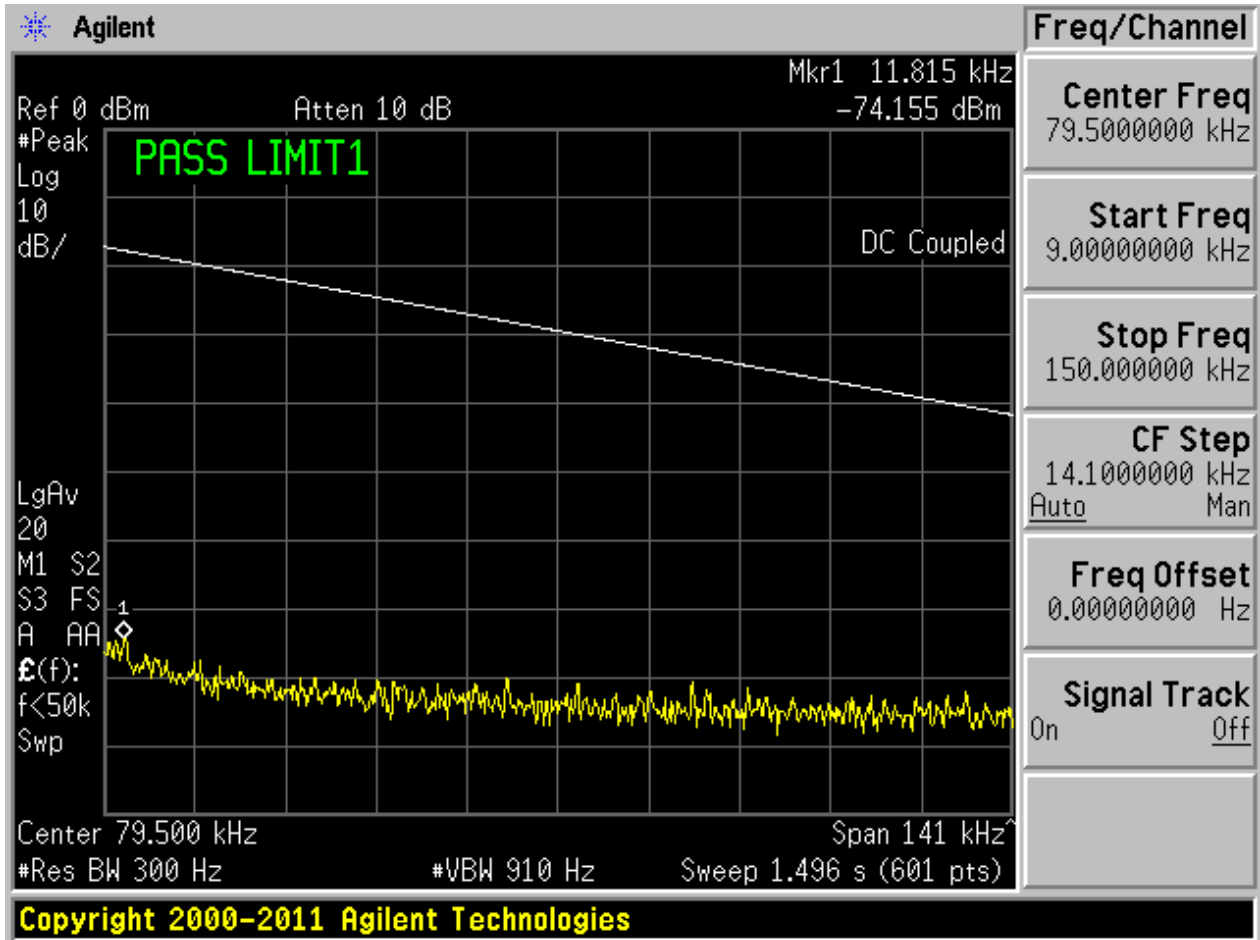


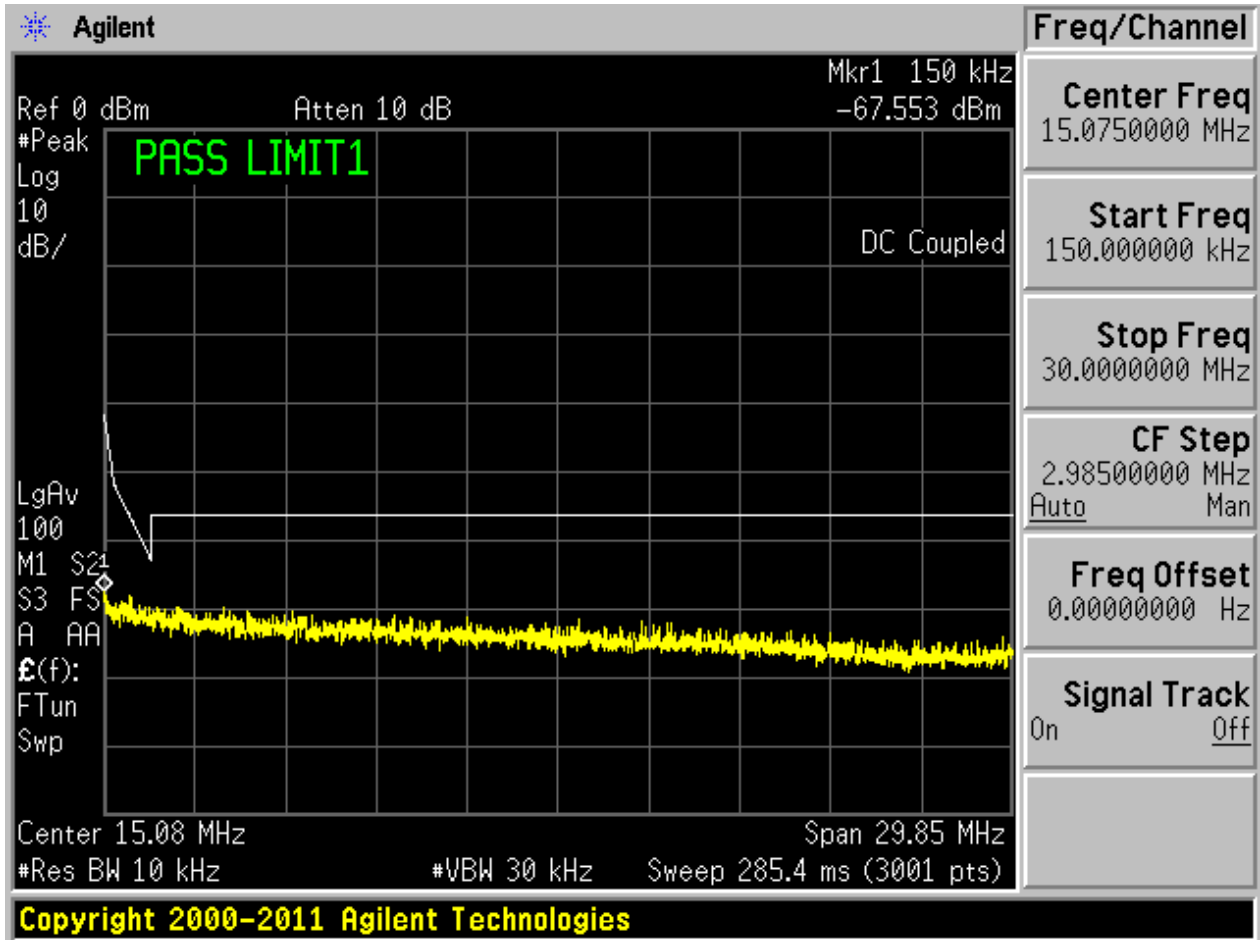


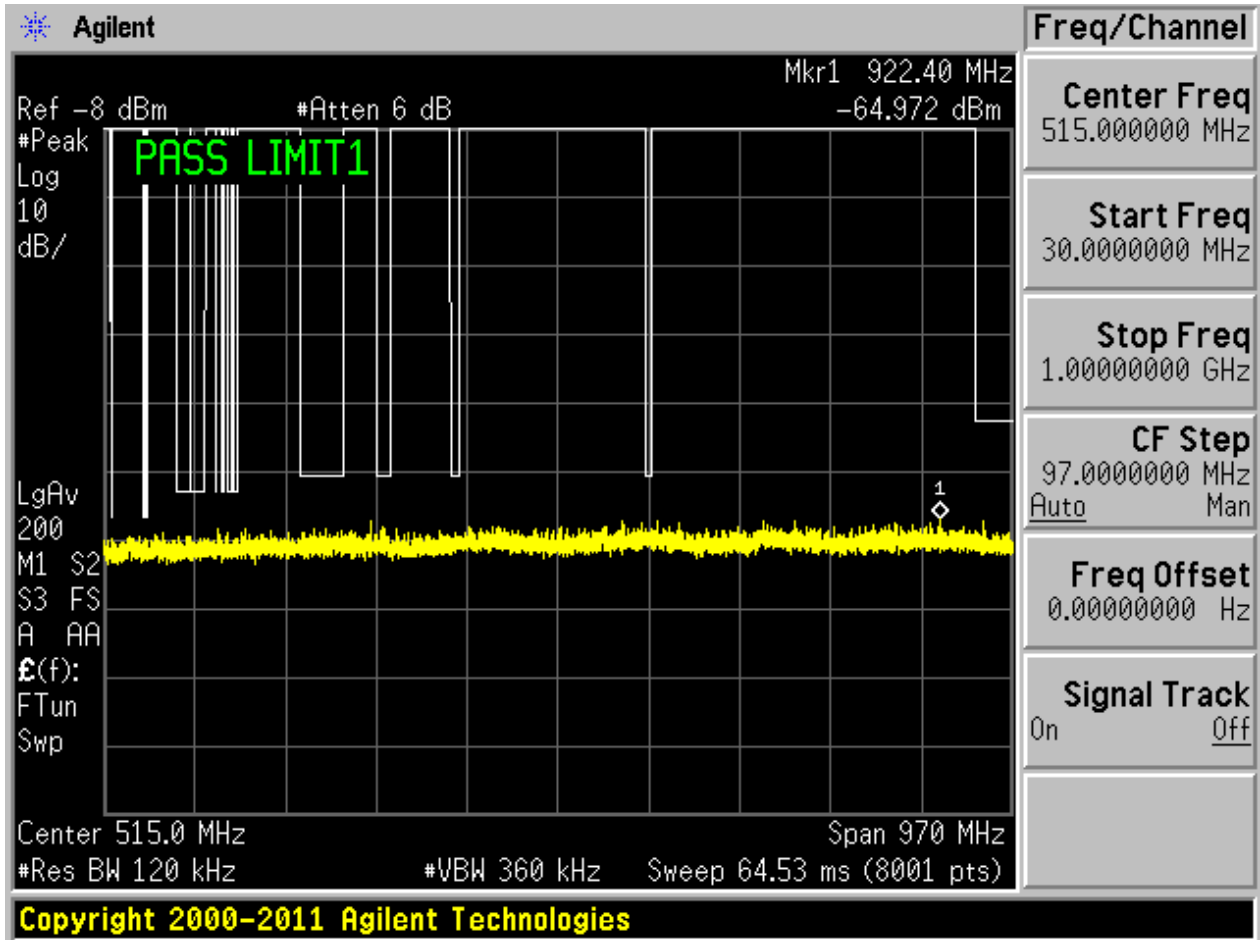
2.12.3 Trace#sum (if needed for final judgment)

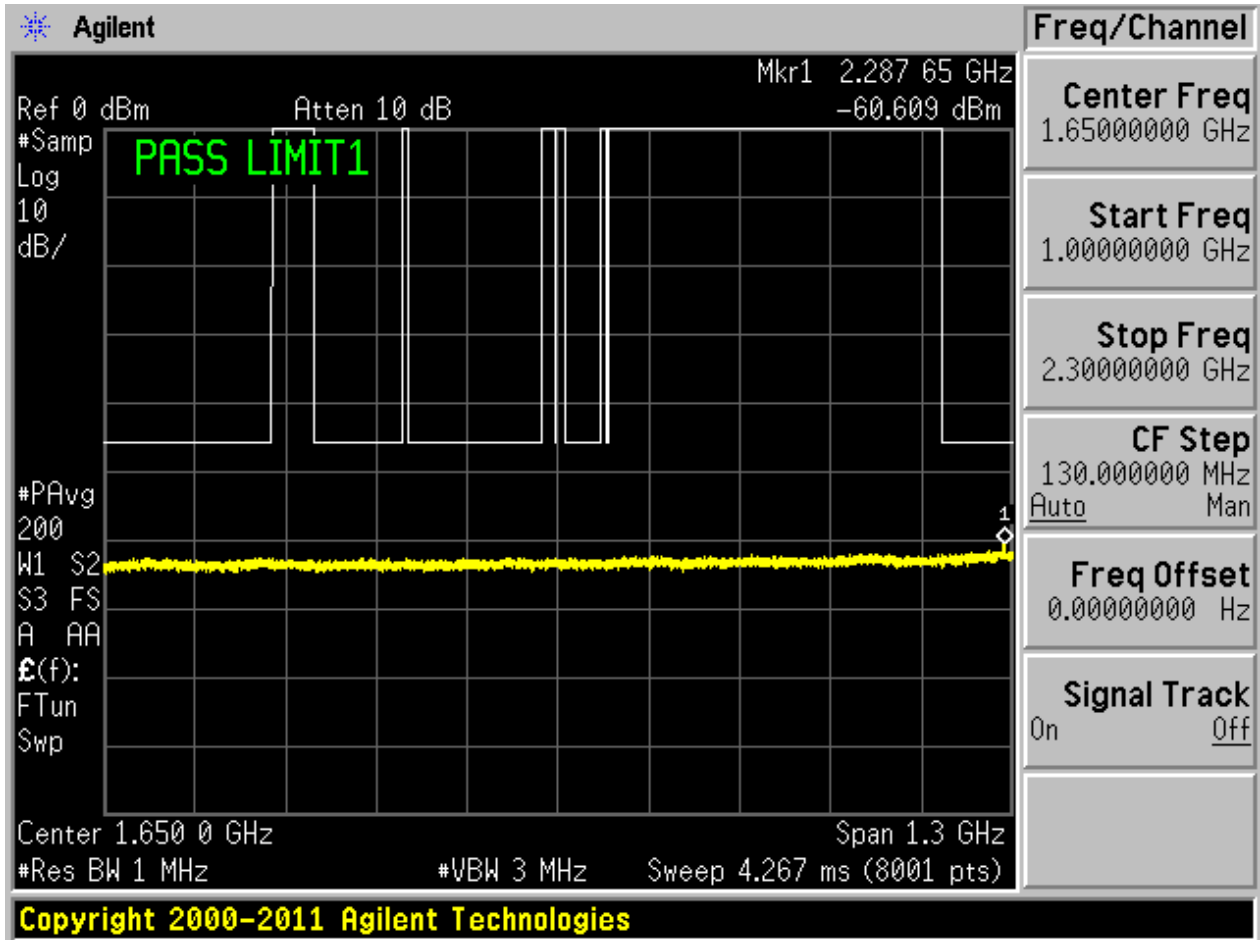
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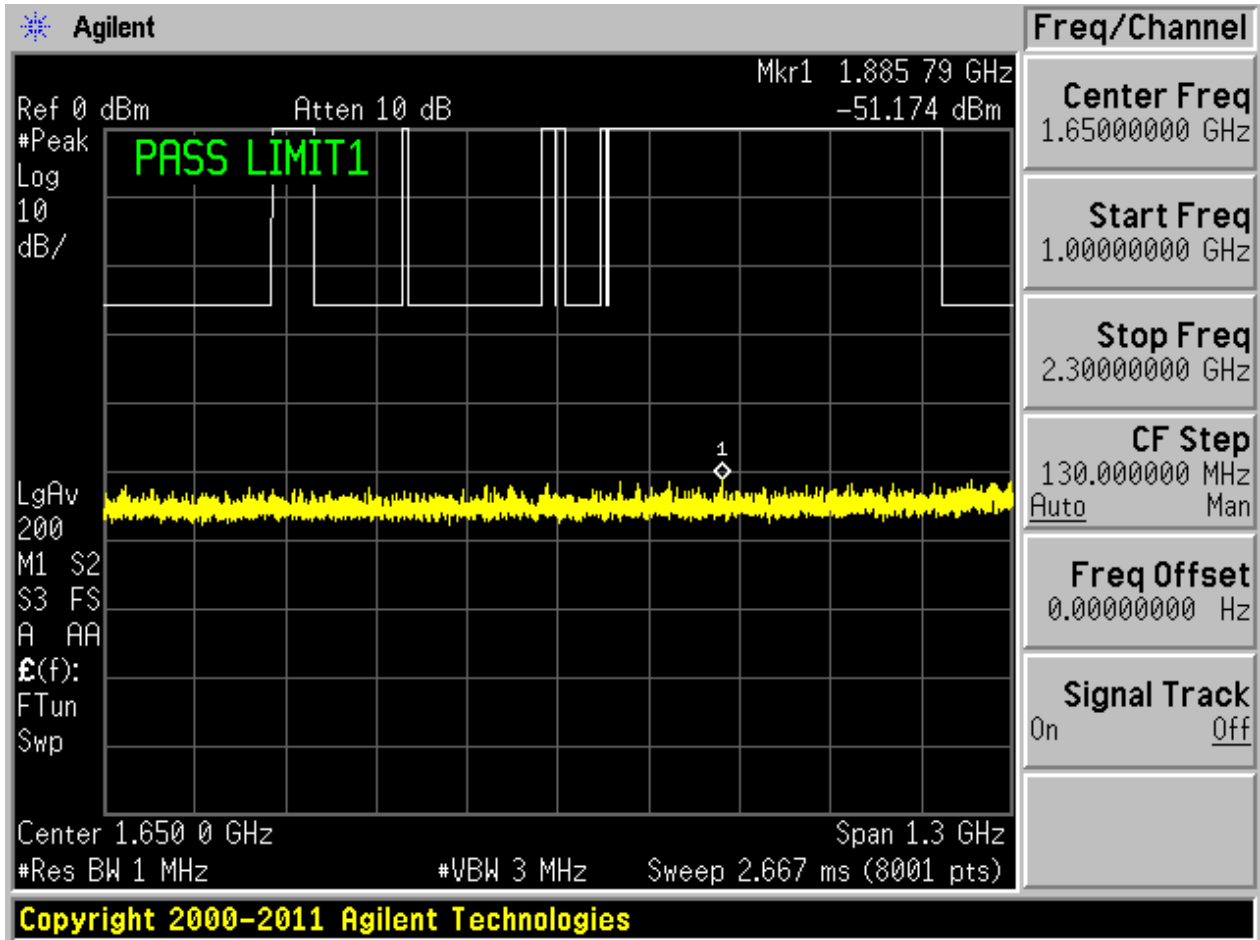
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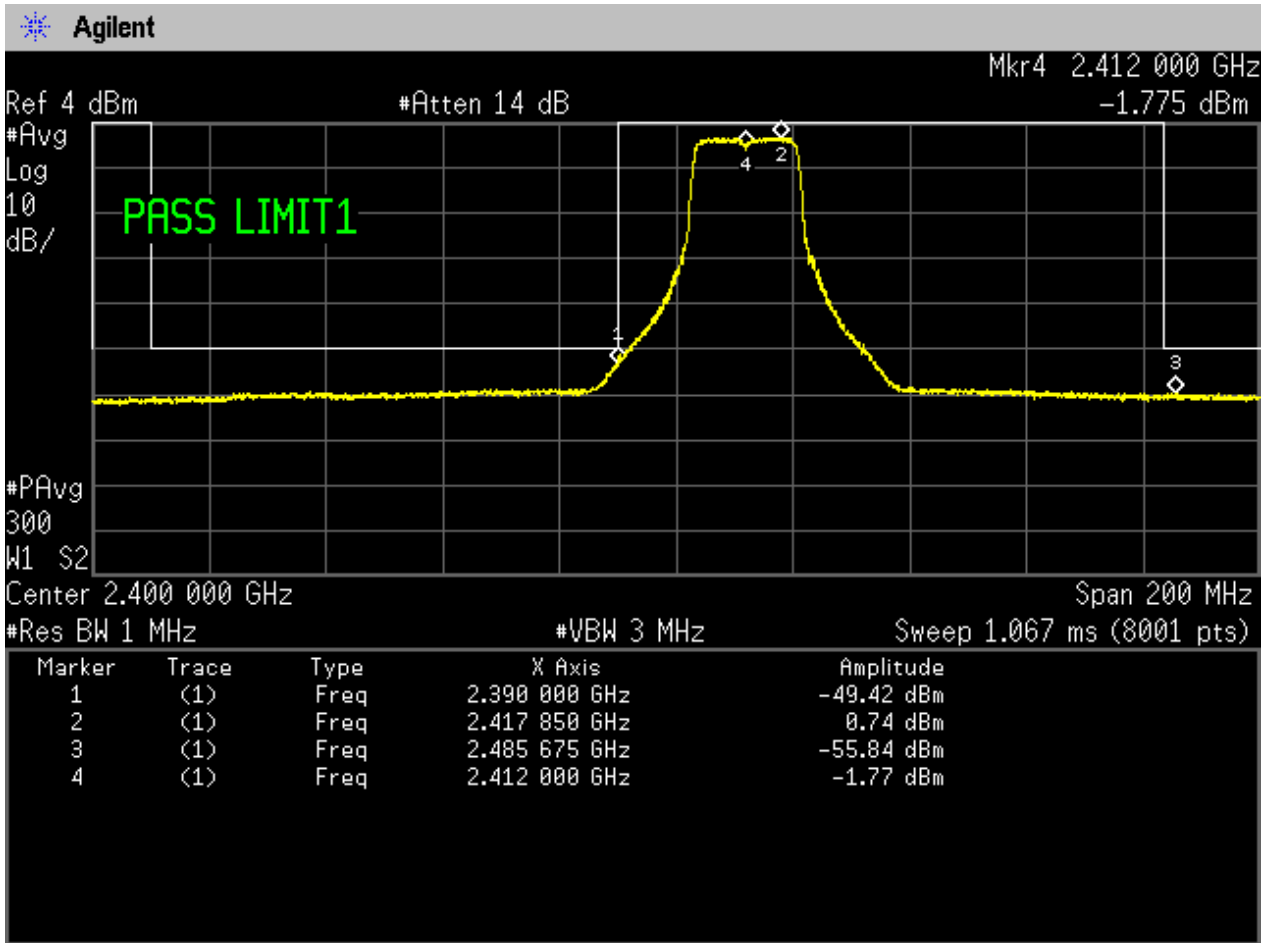


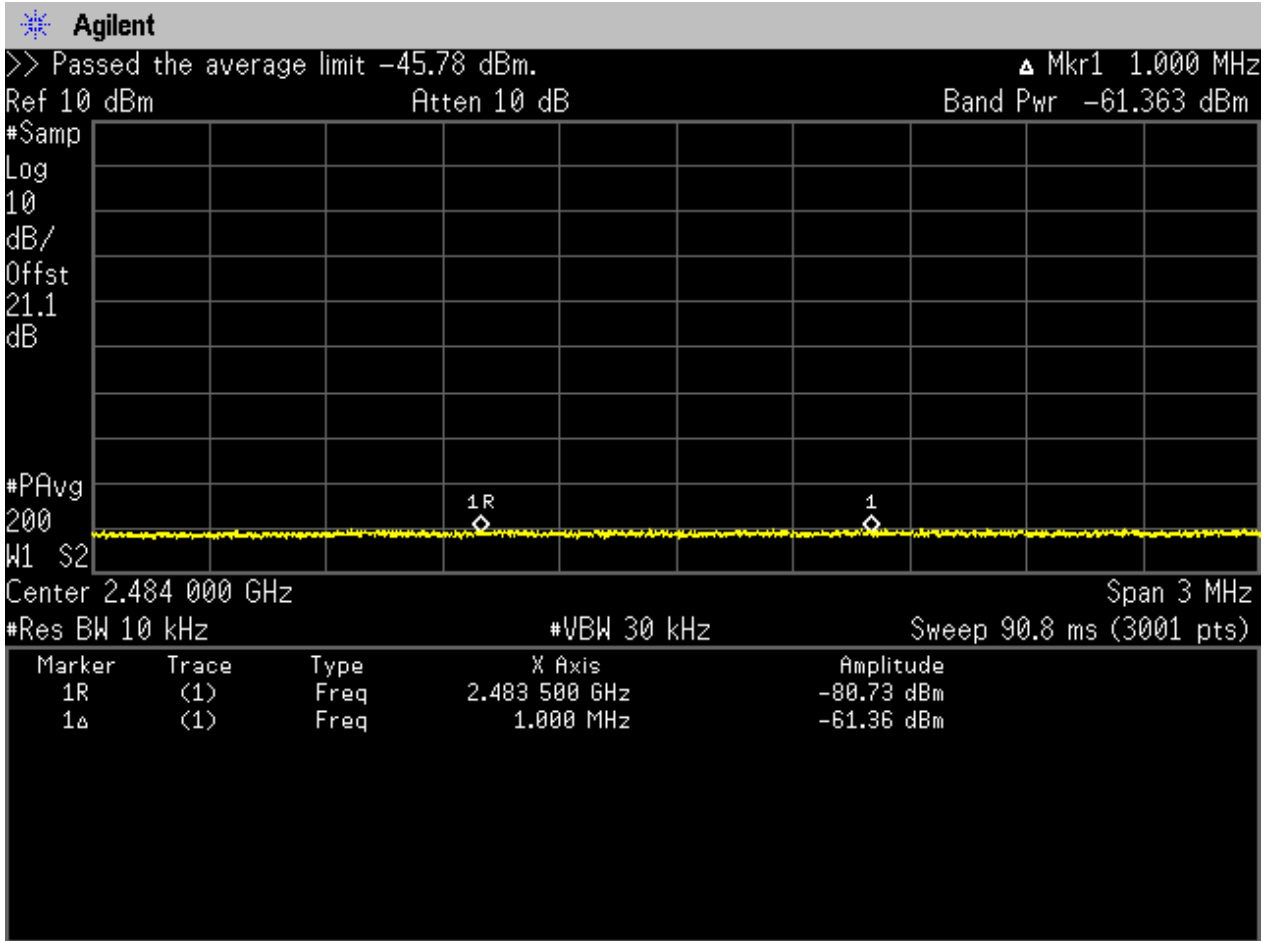


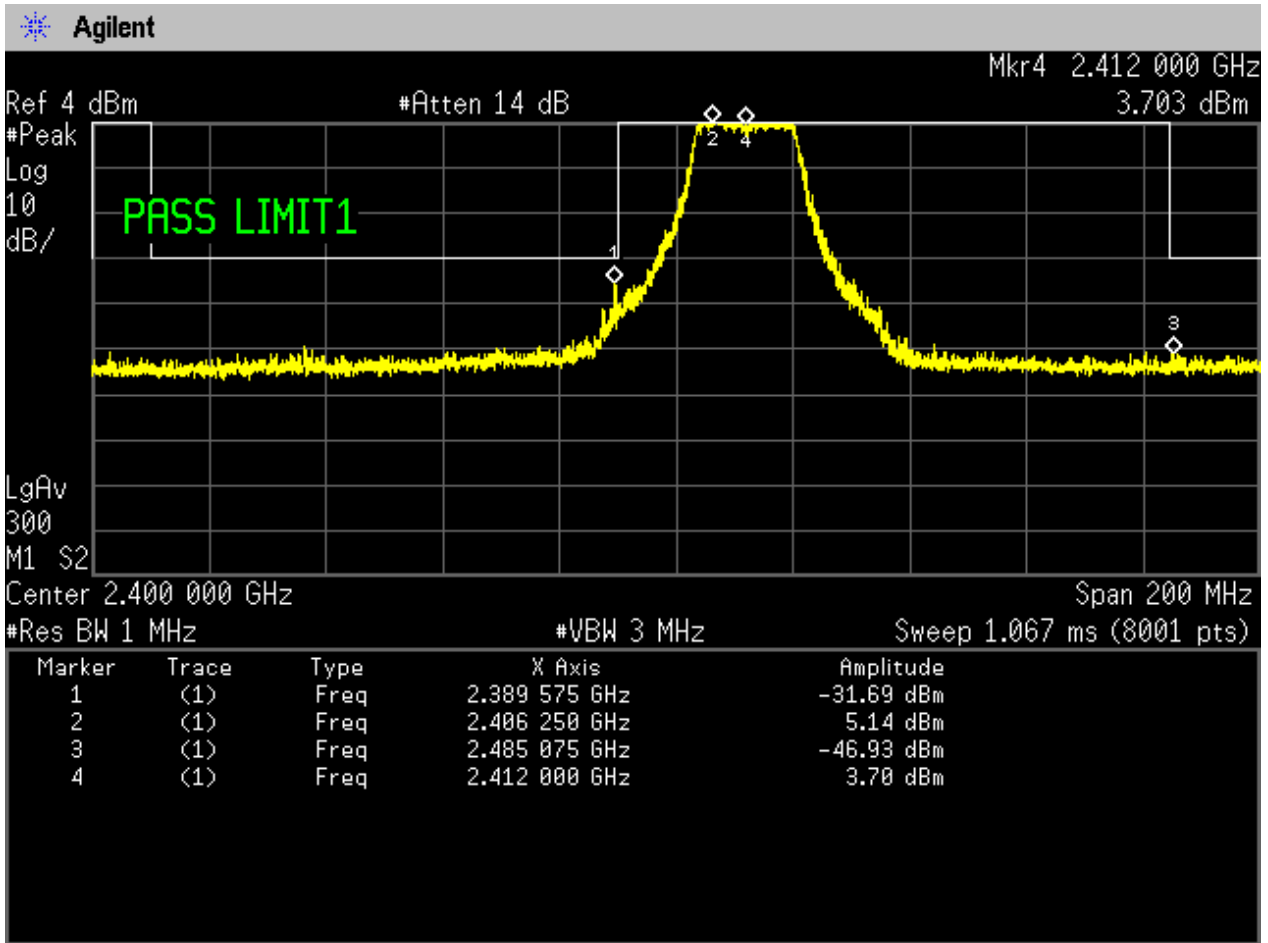


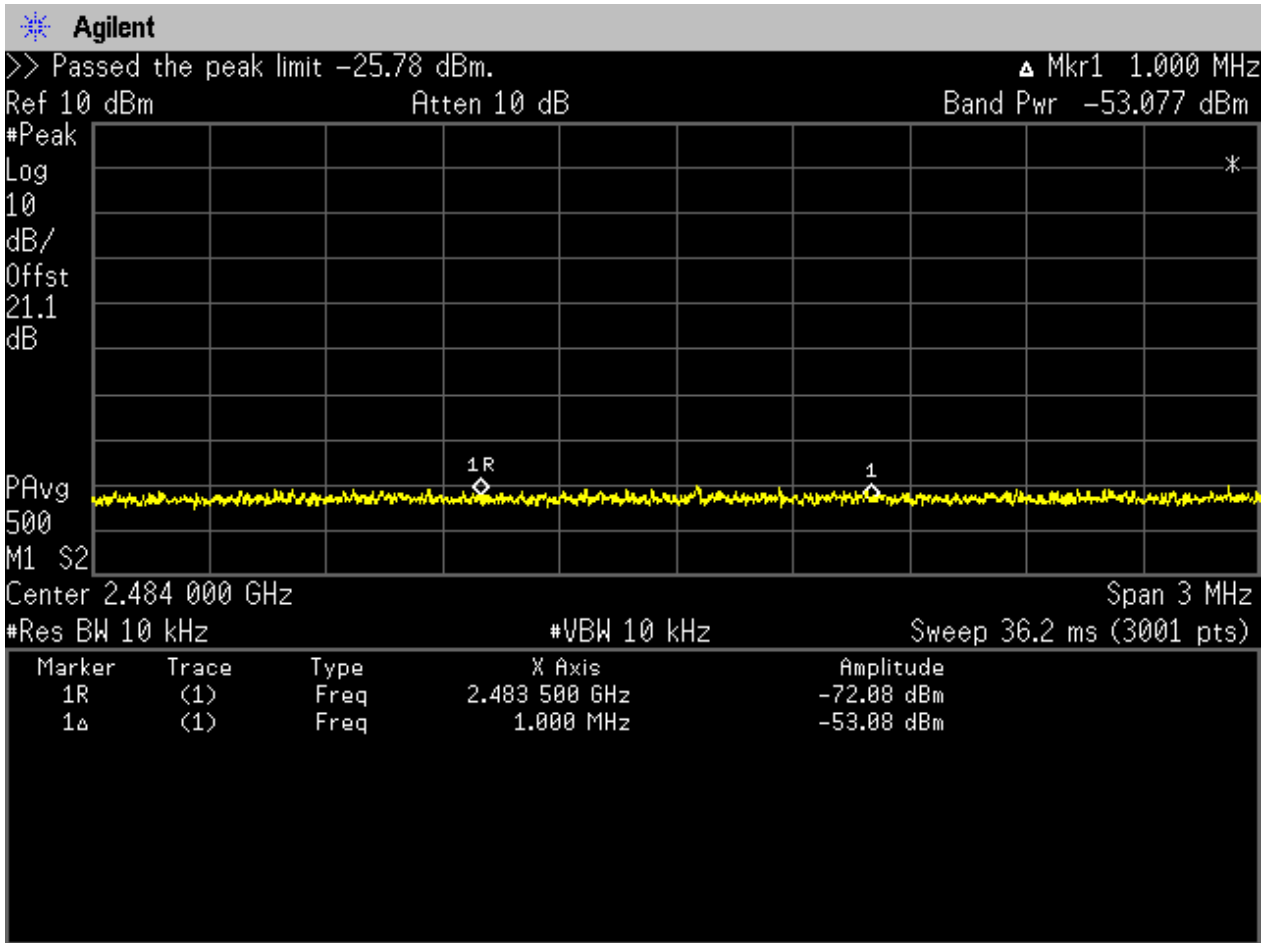


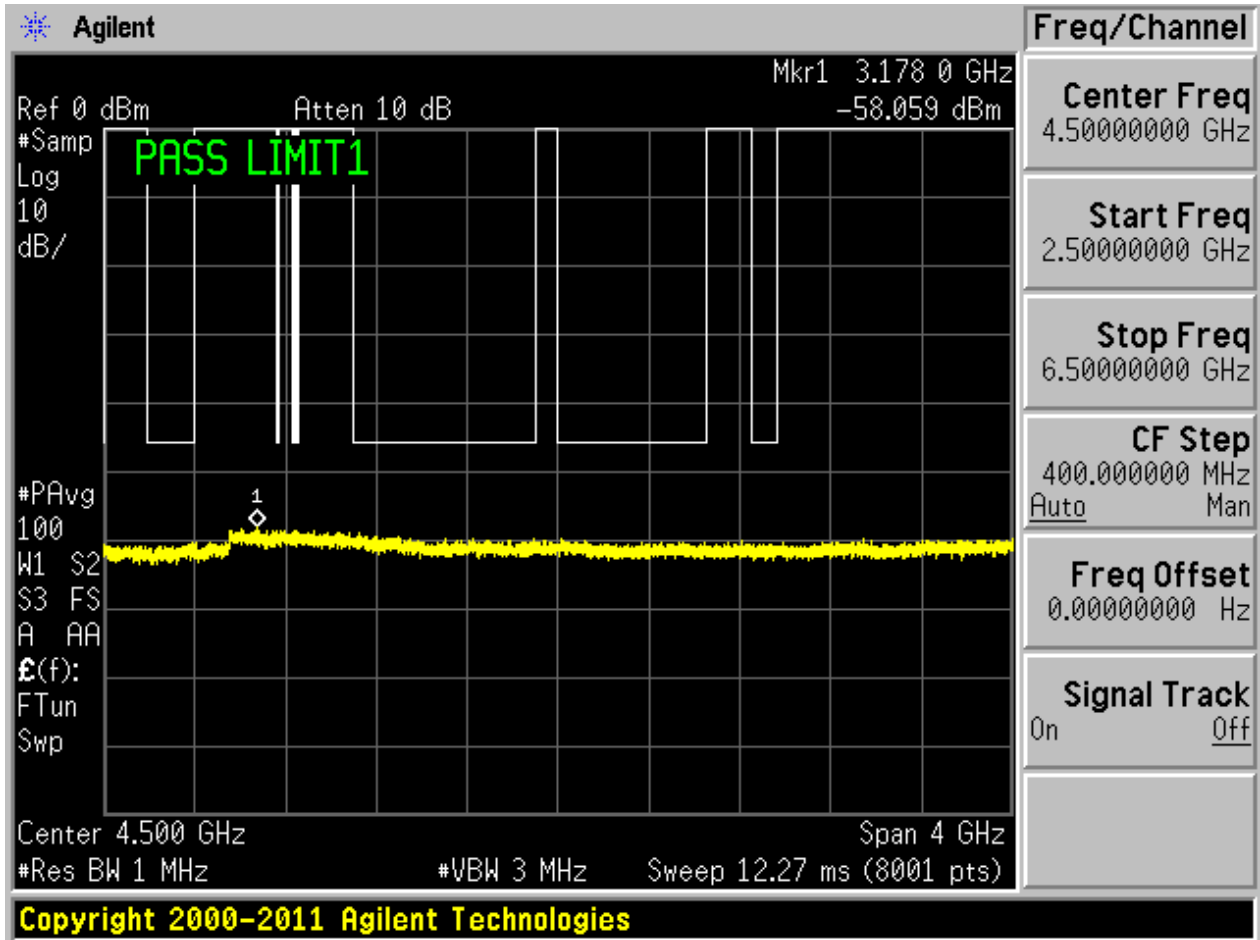


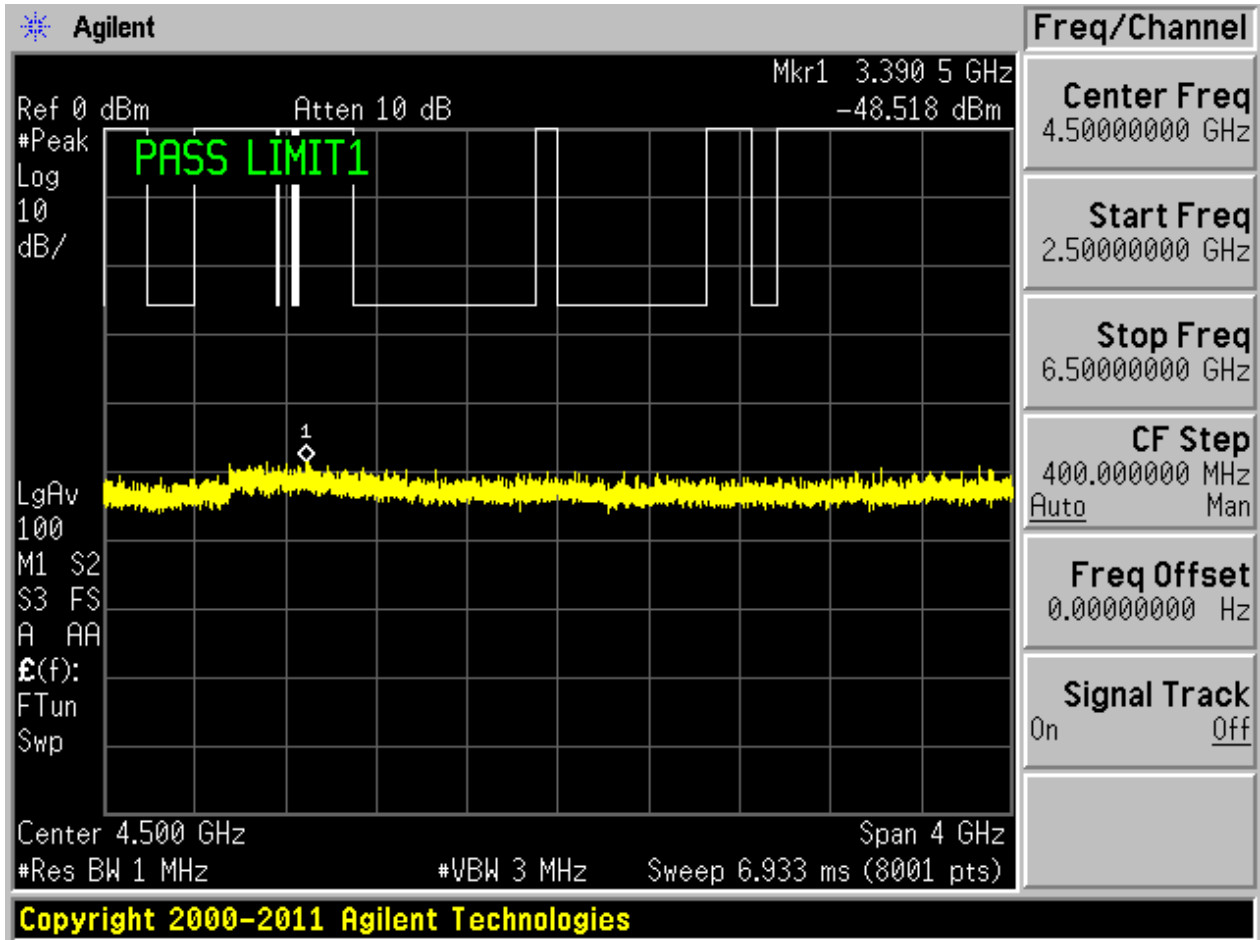


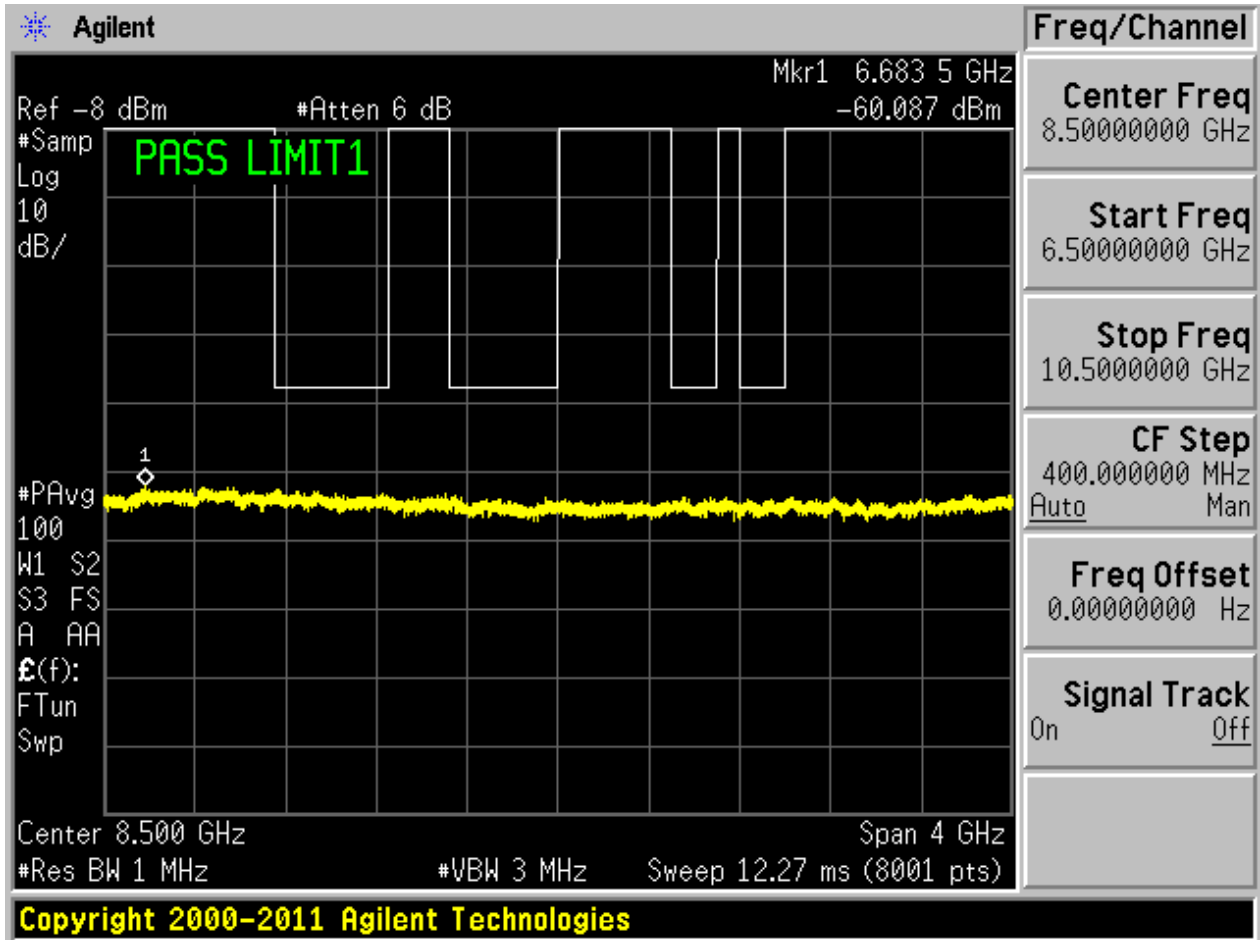


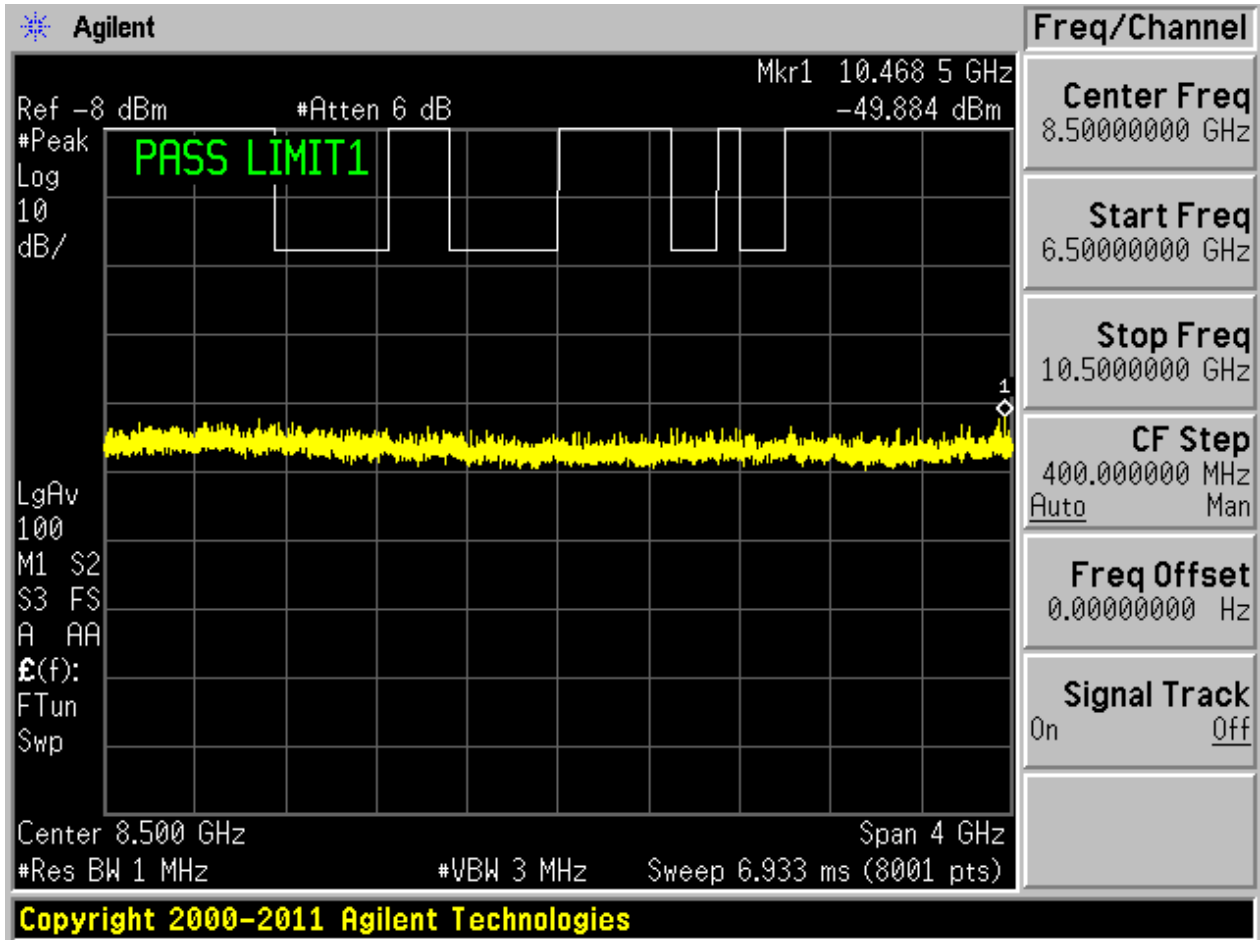


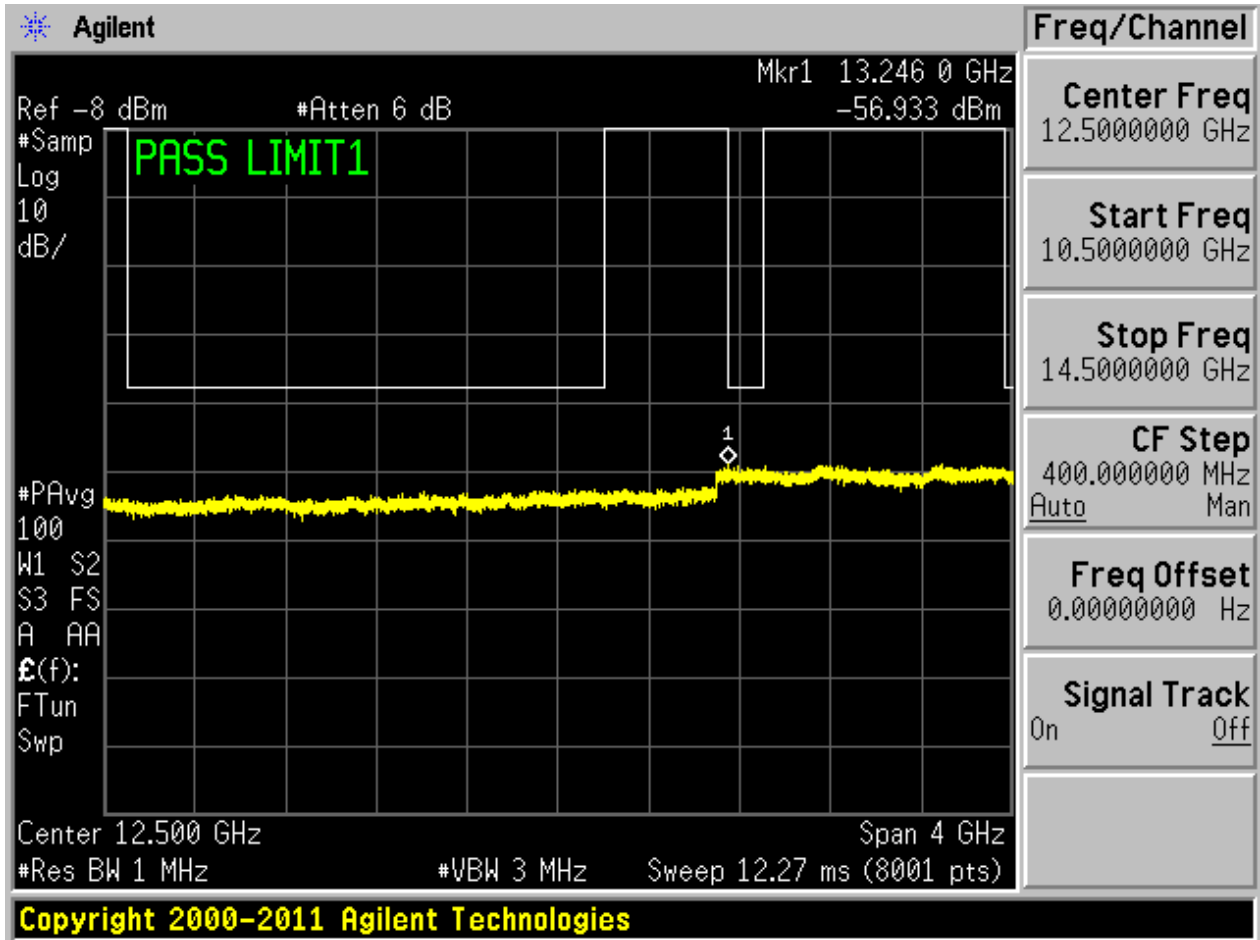


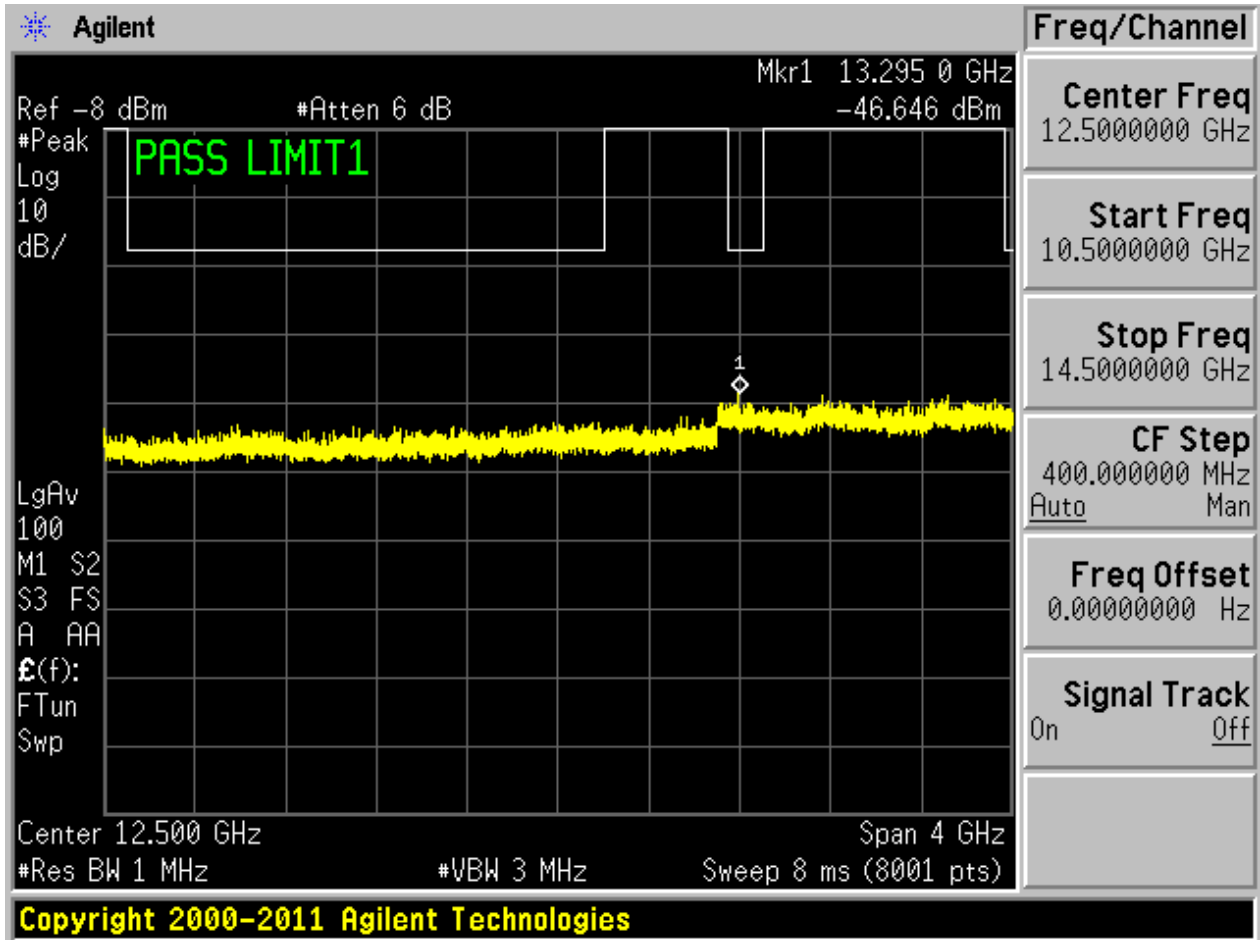




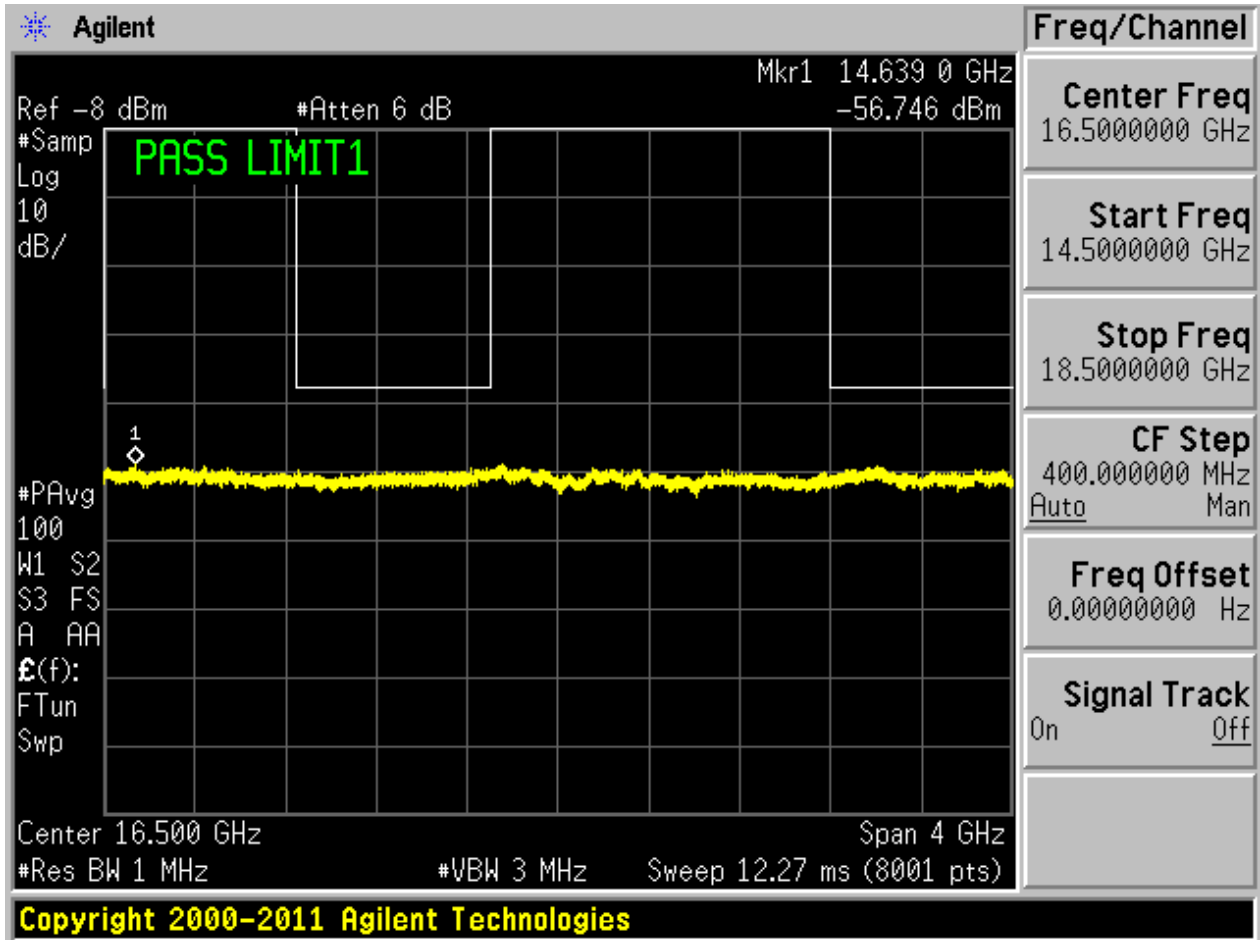


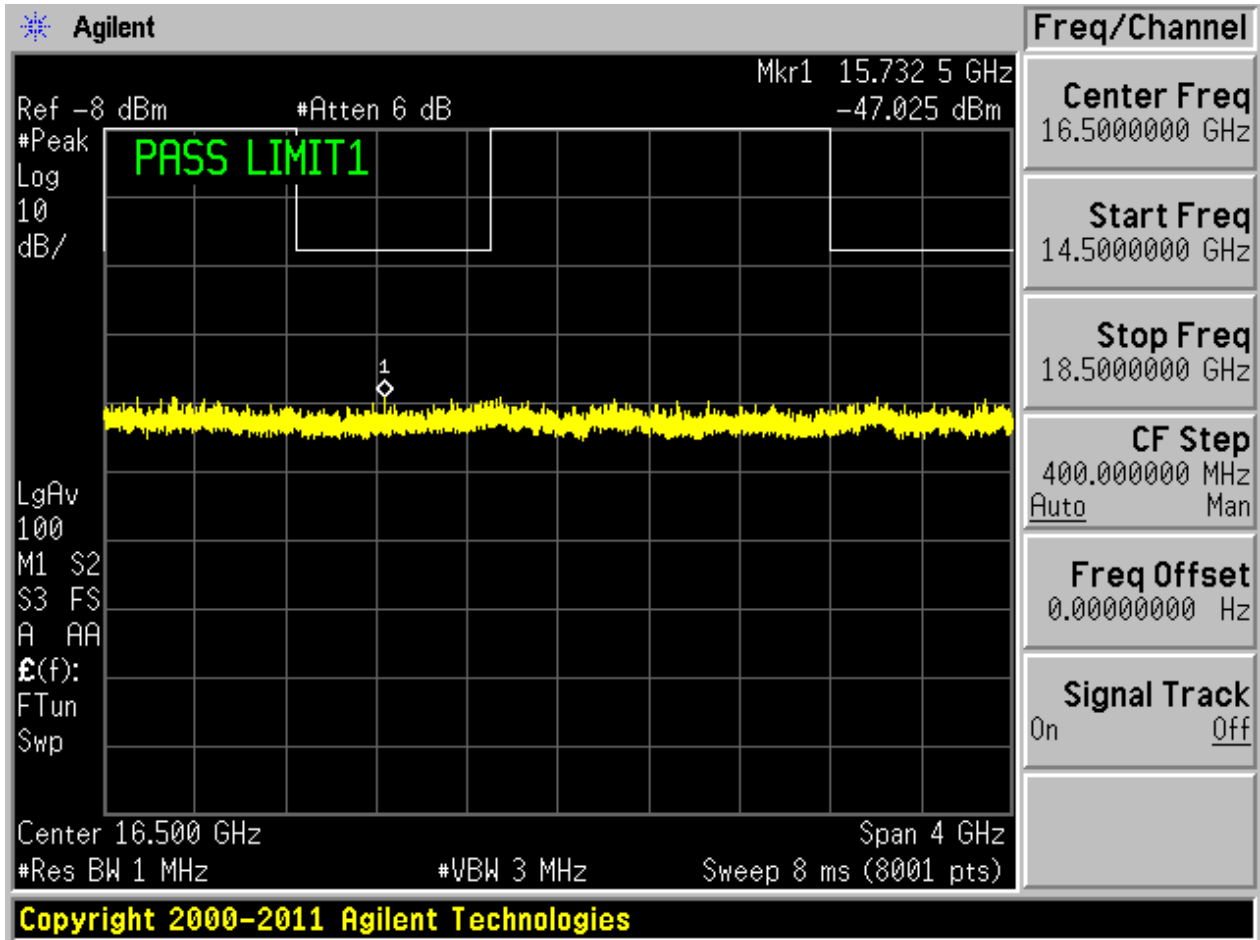


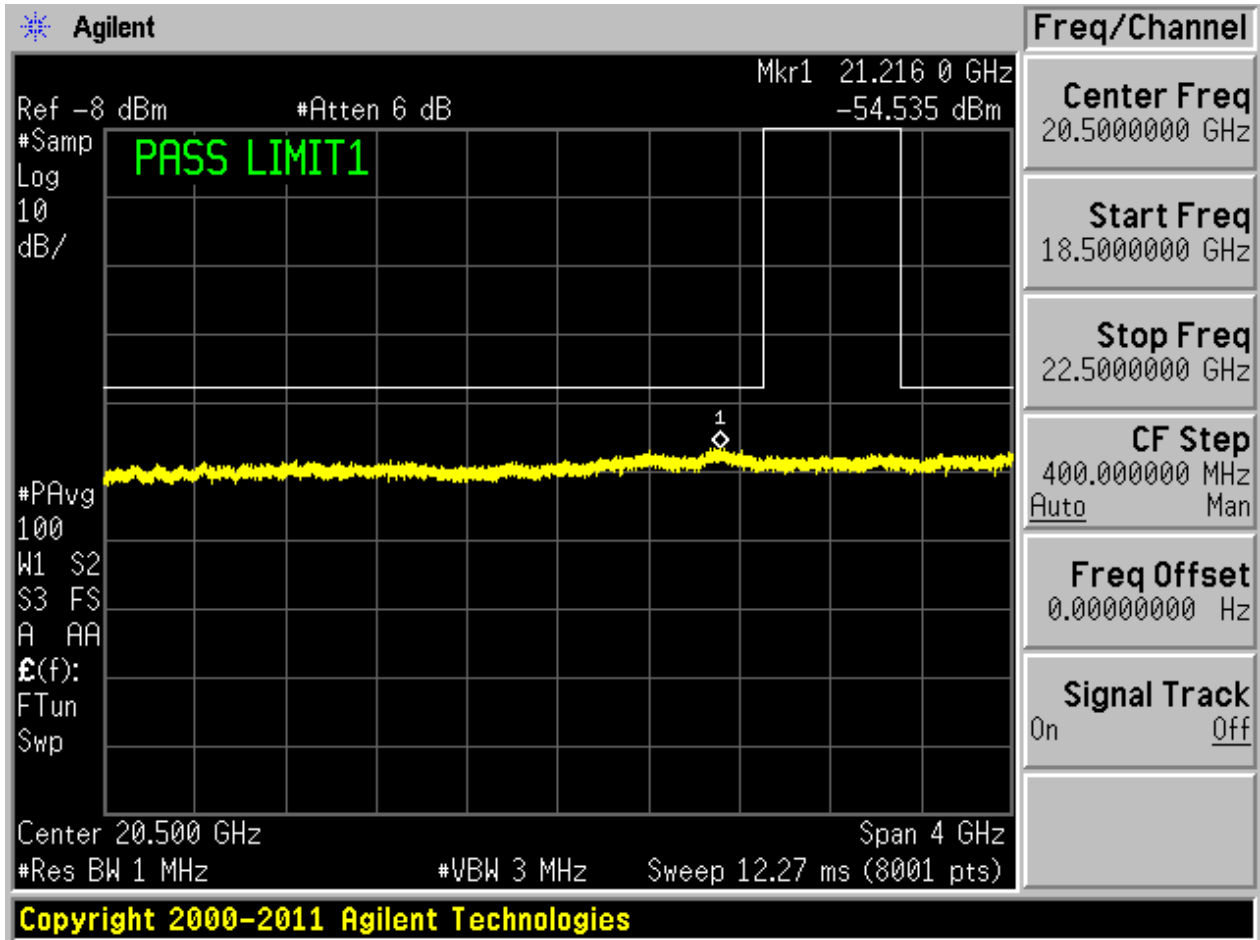


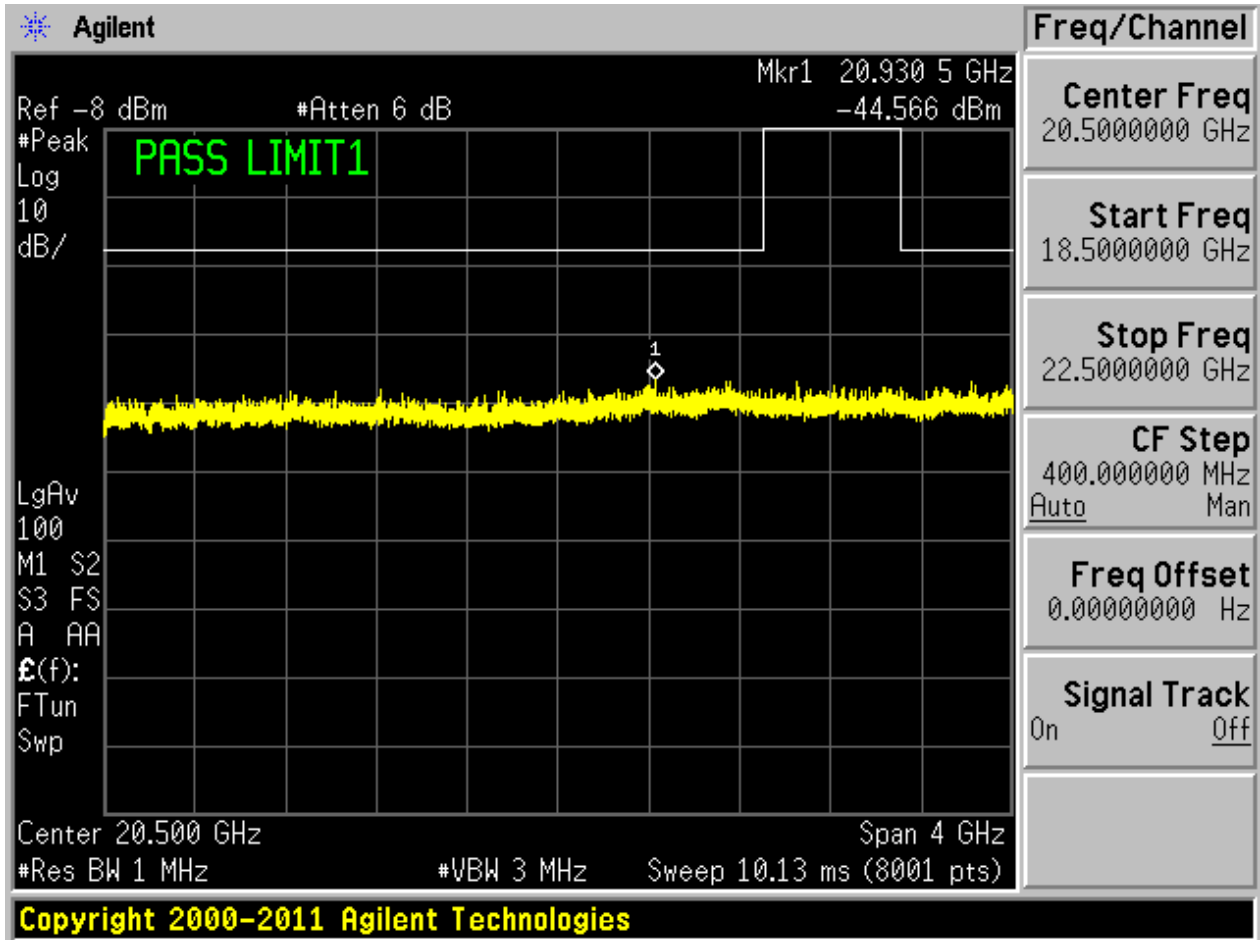


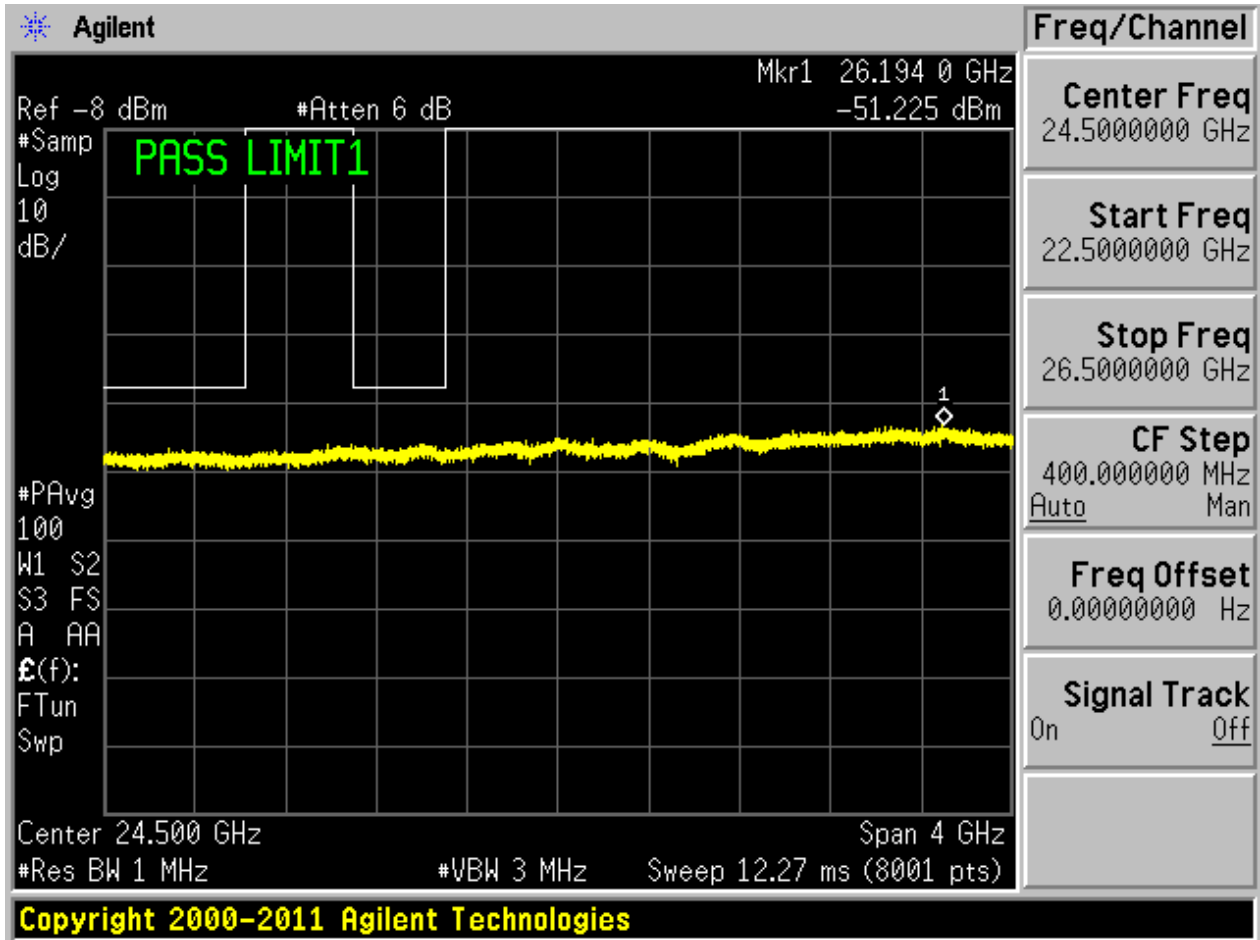
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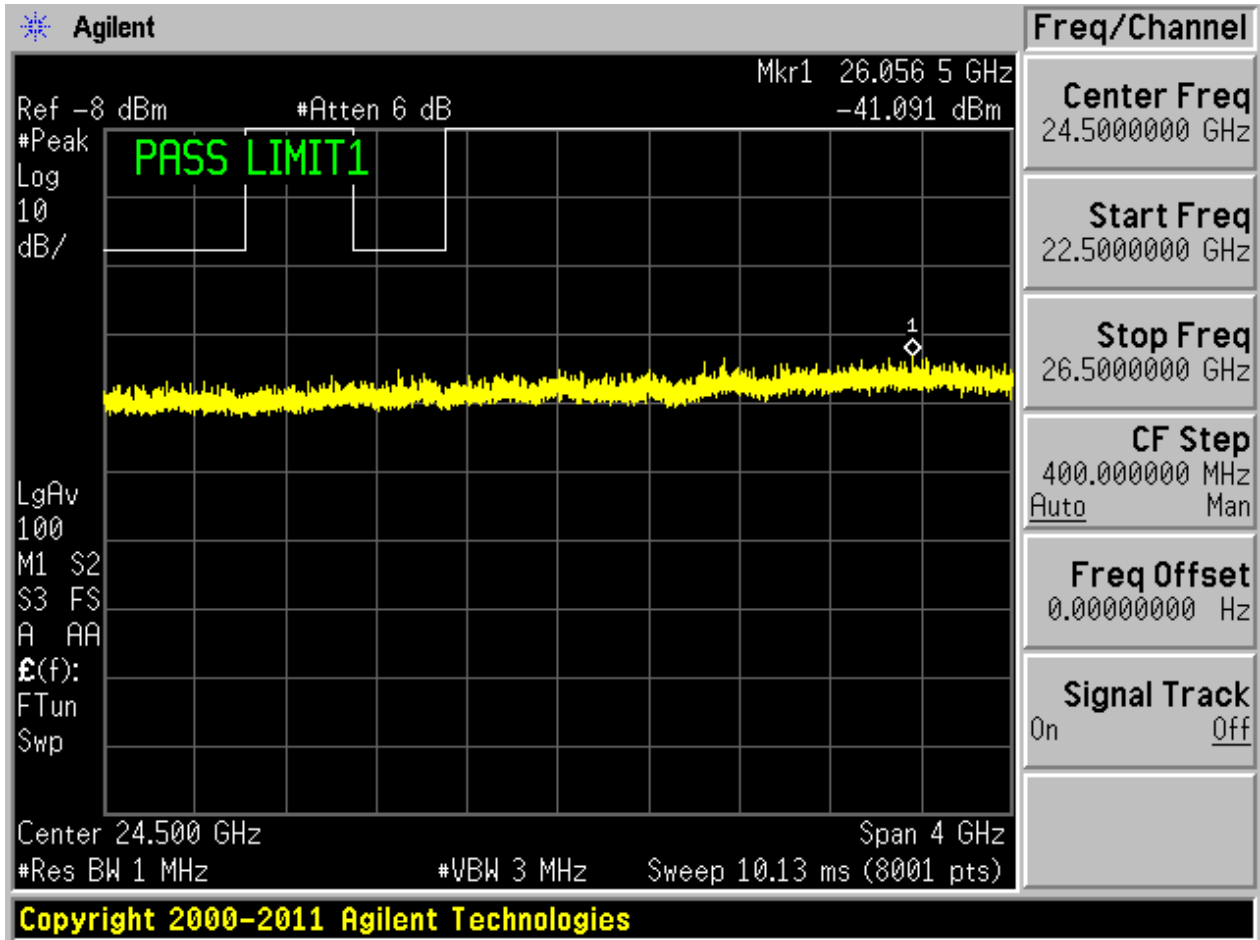




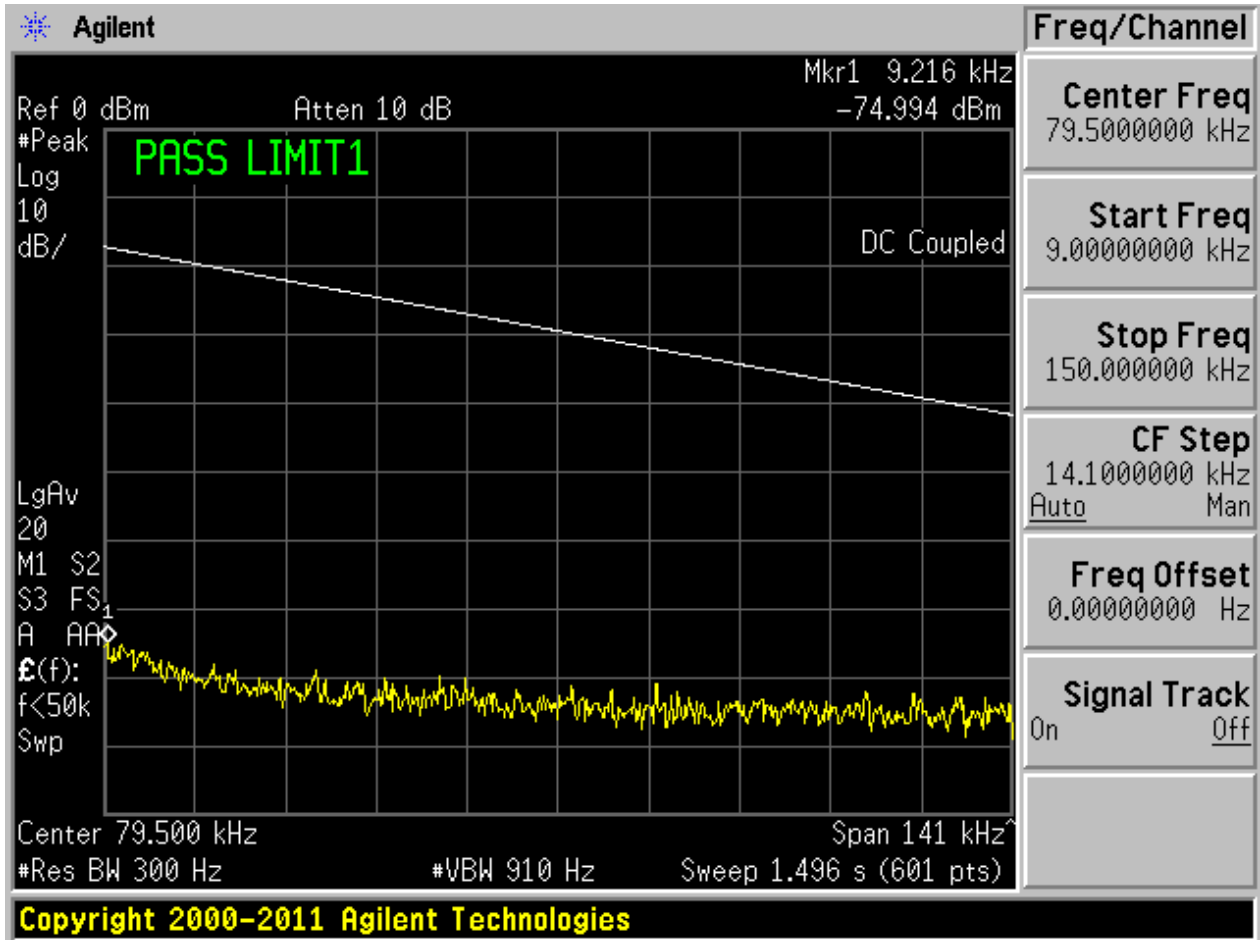


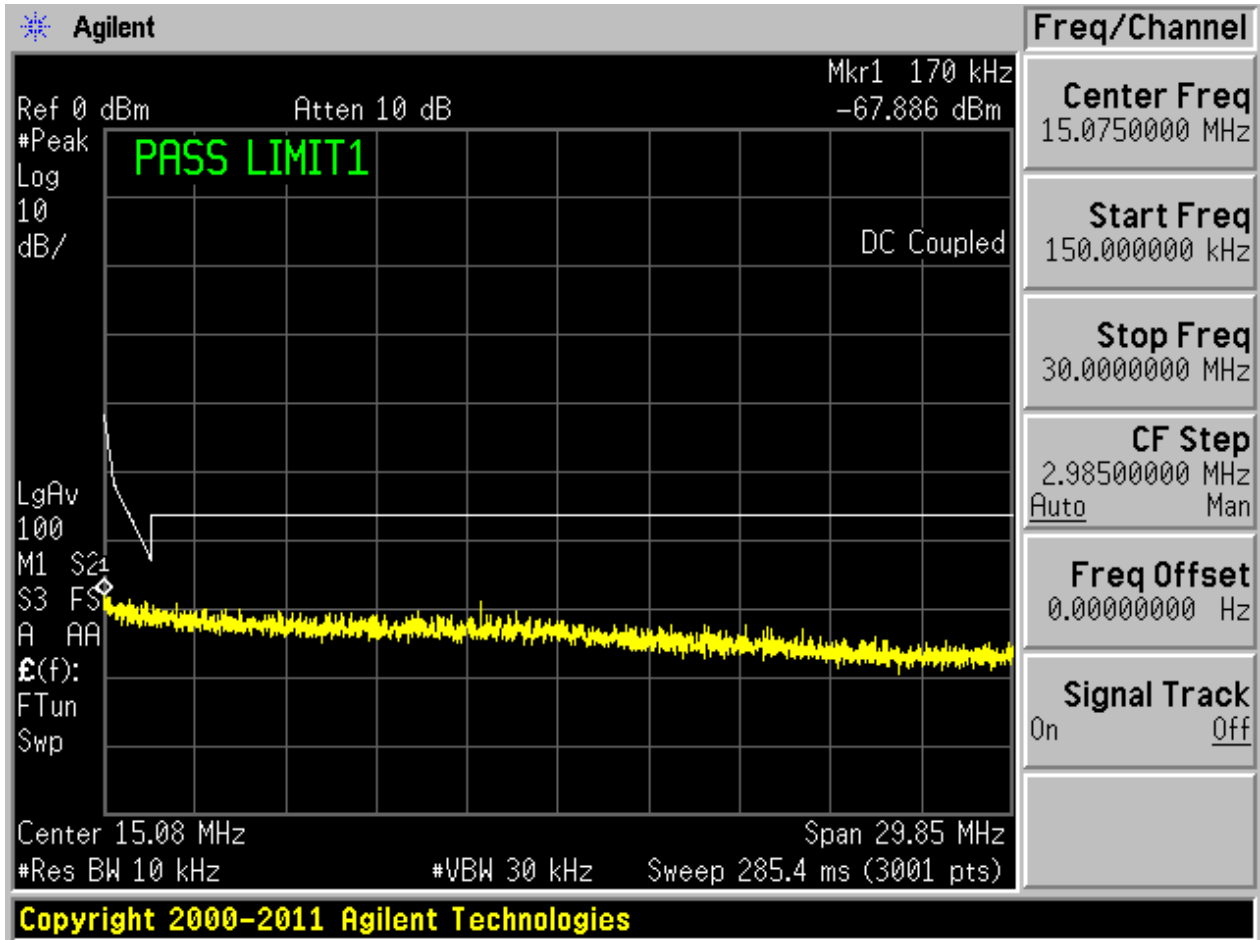


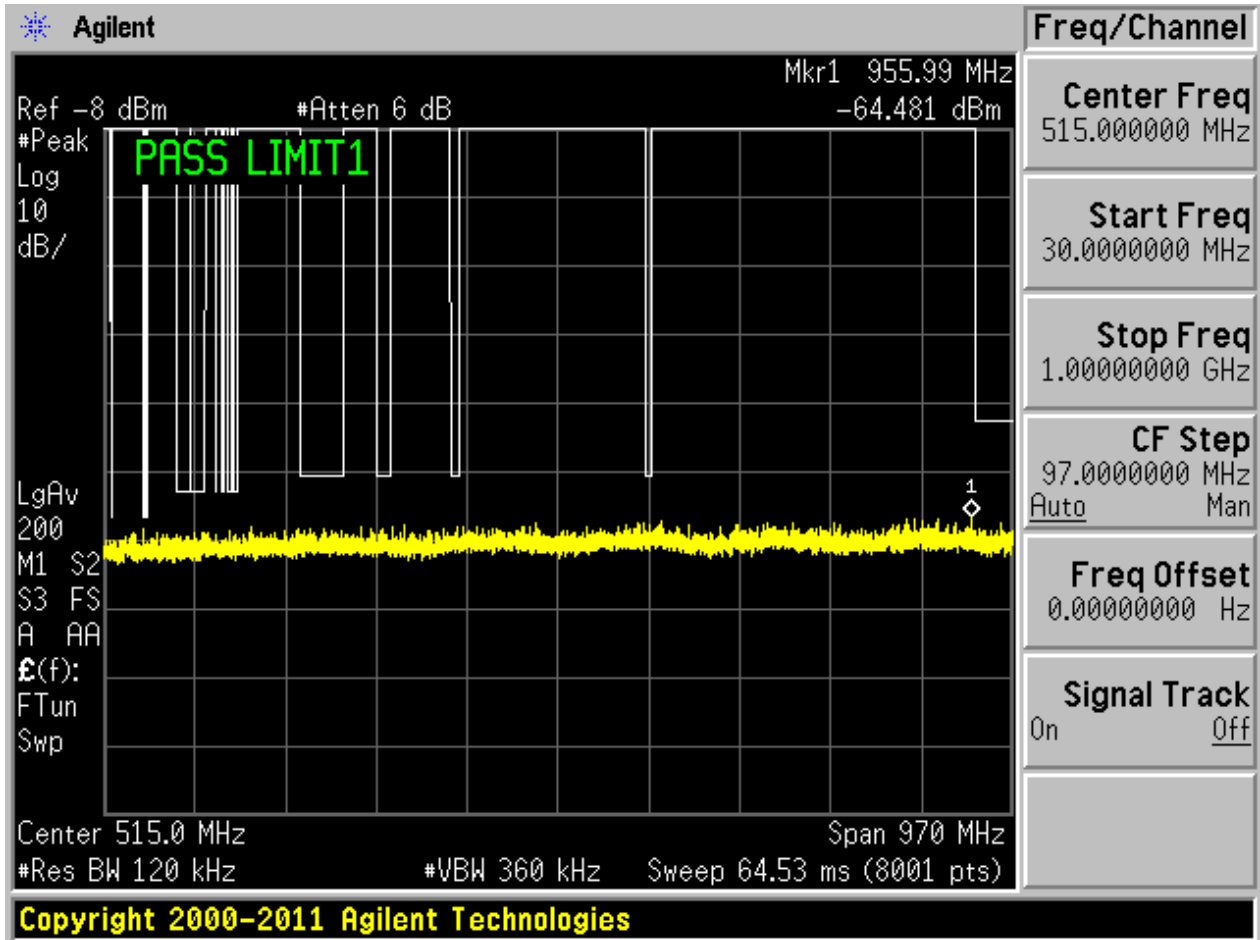


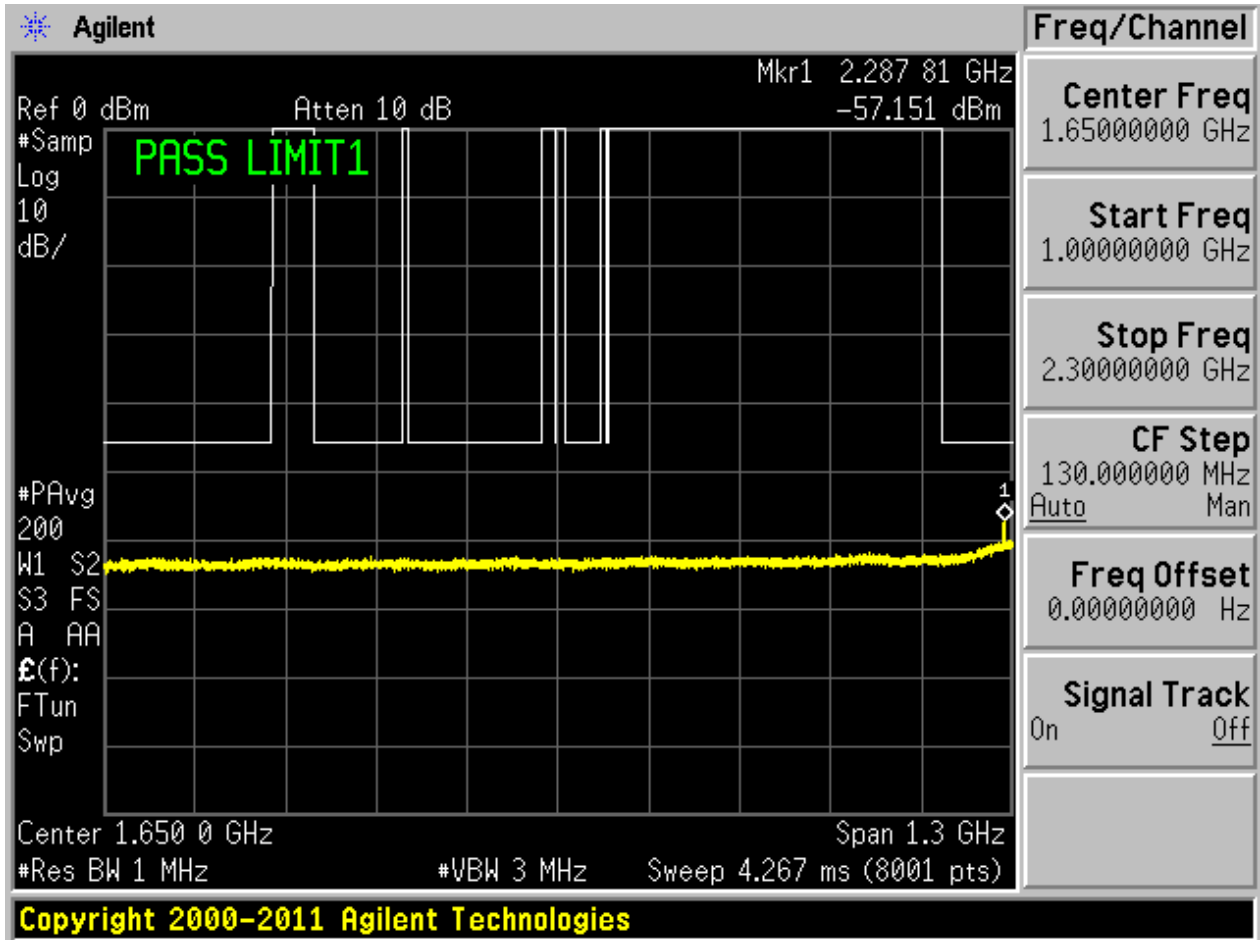


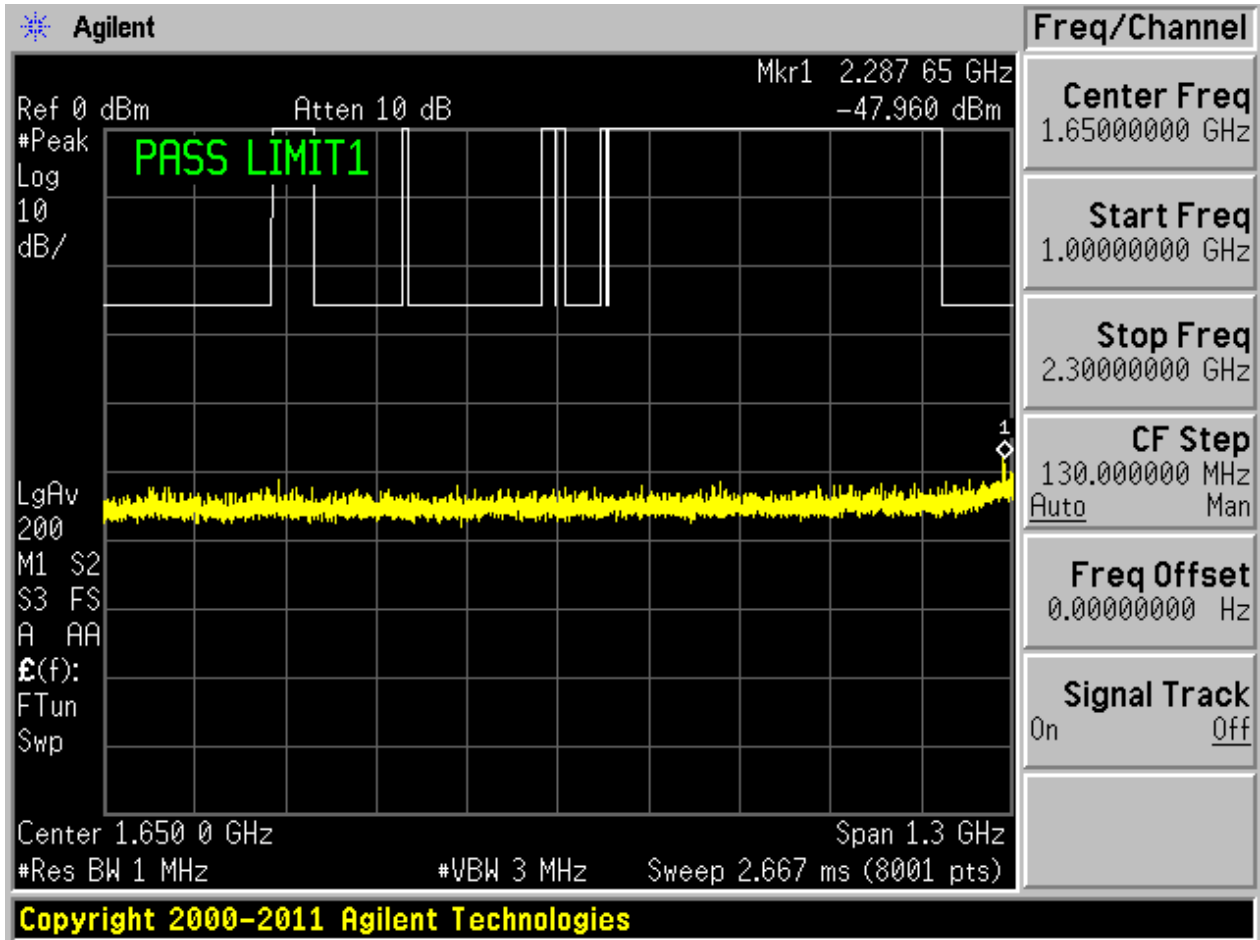
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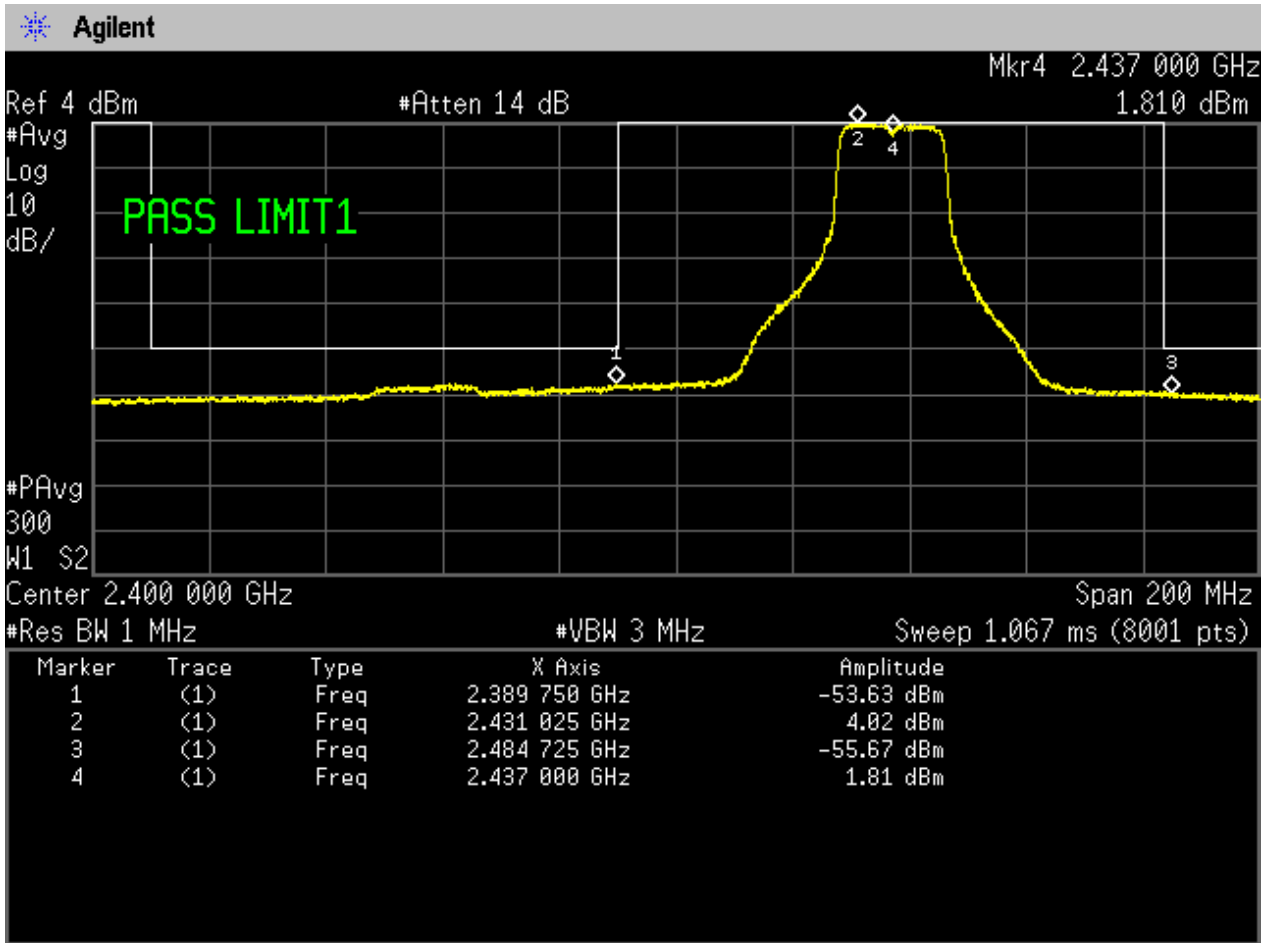


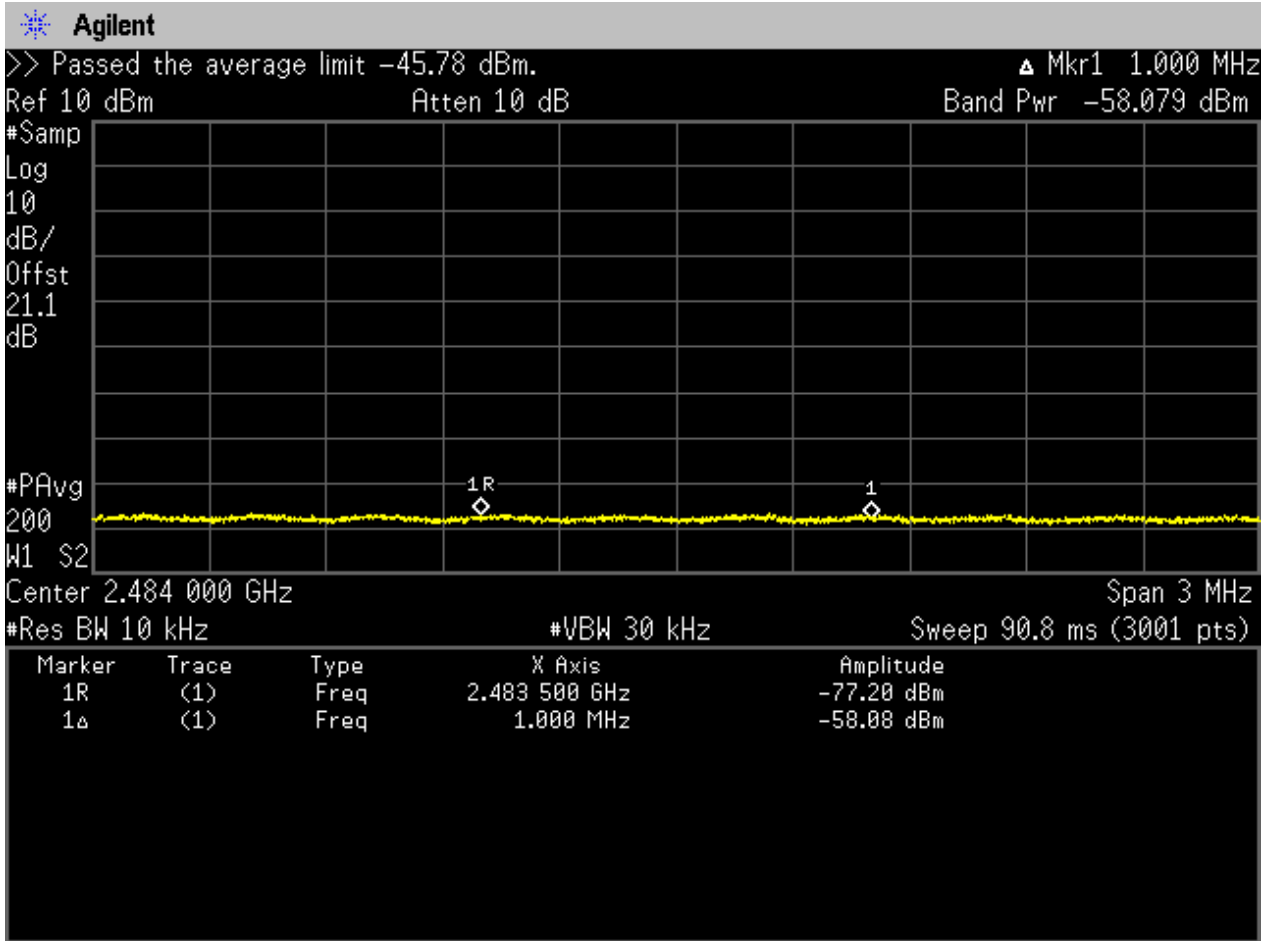


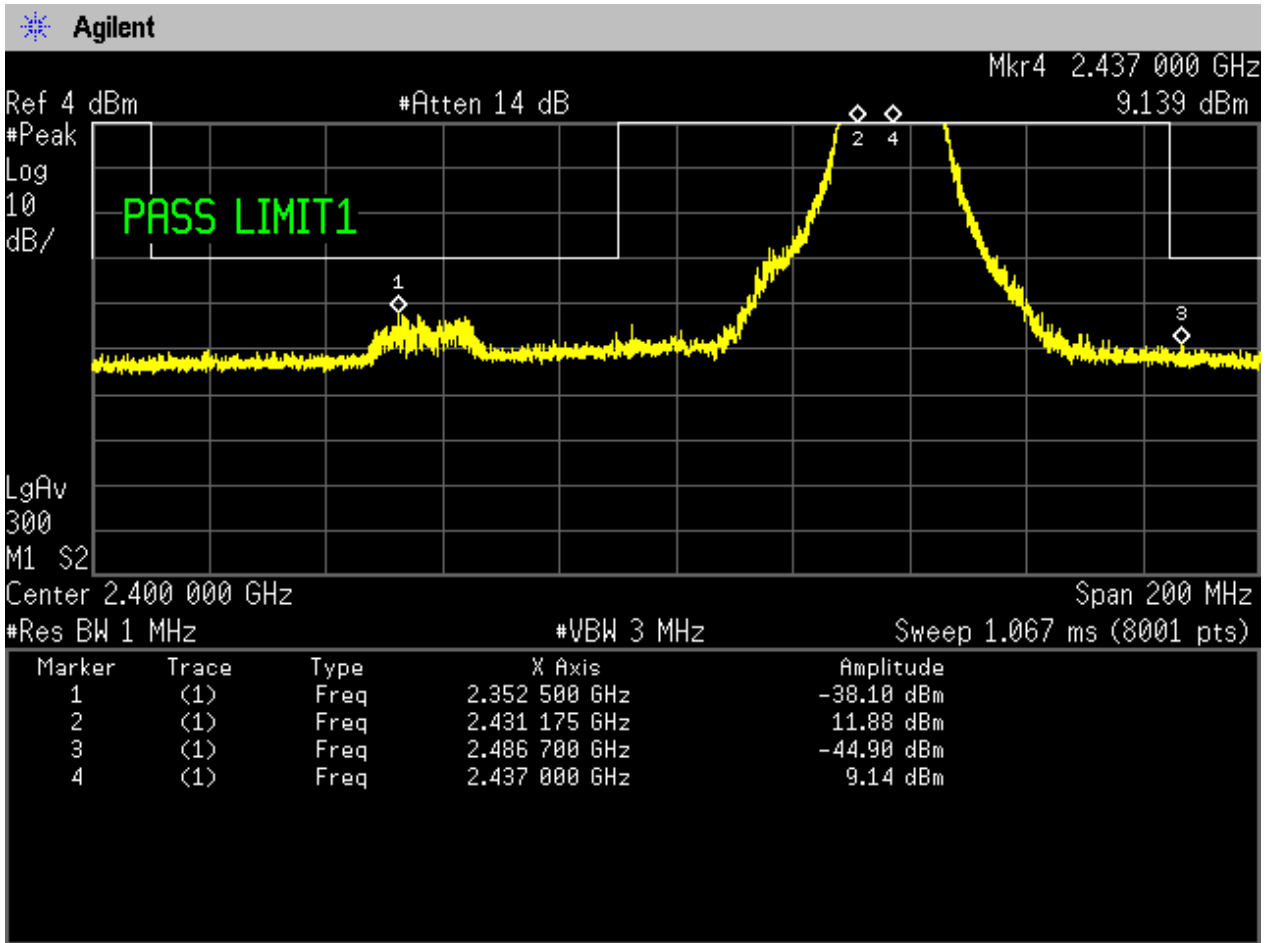


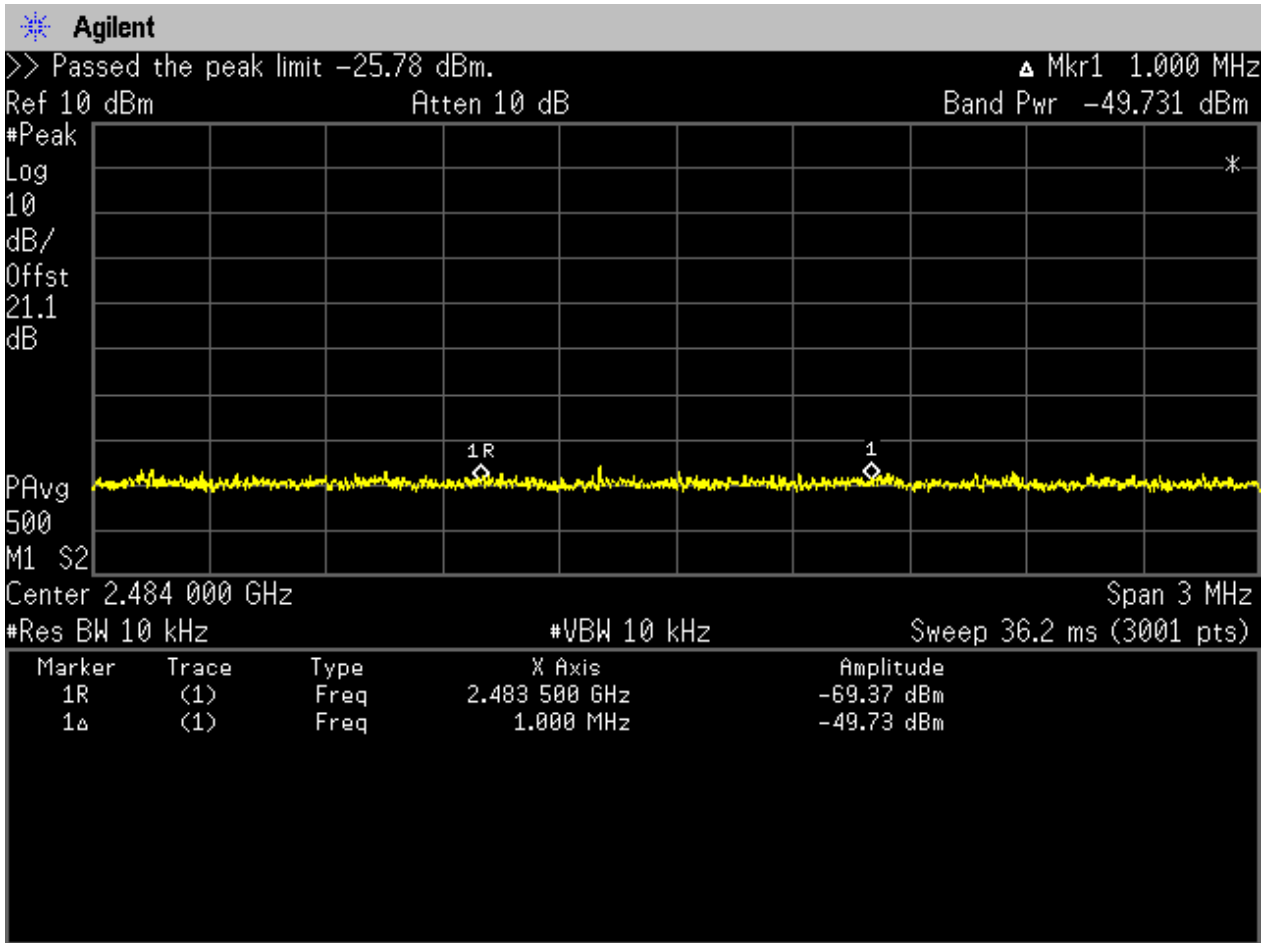


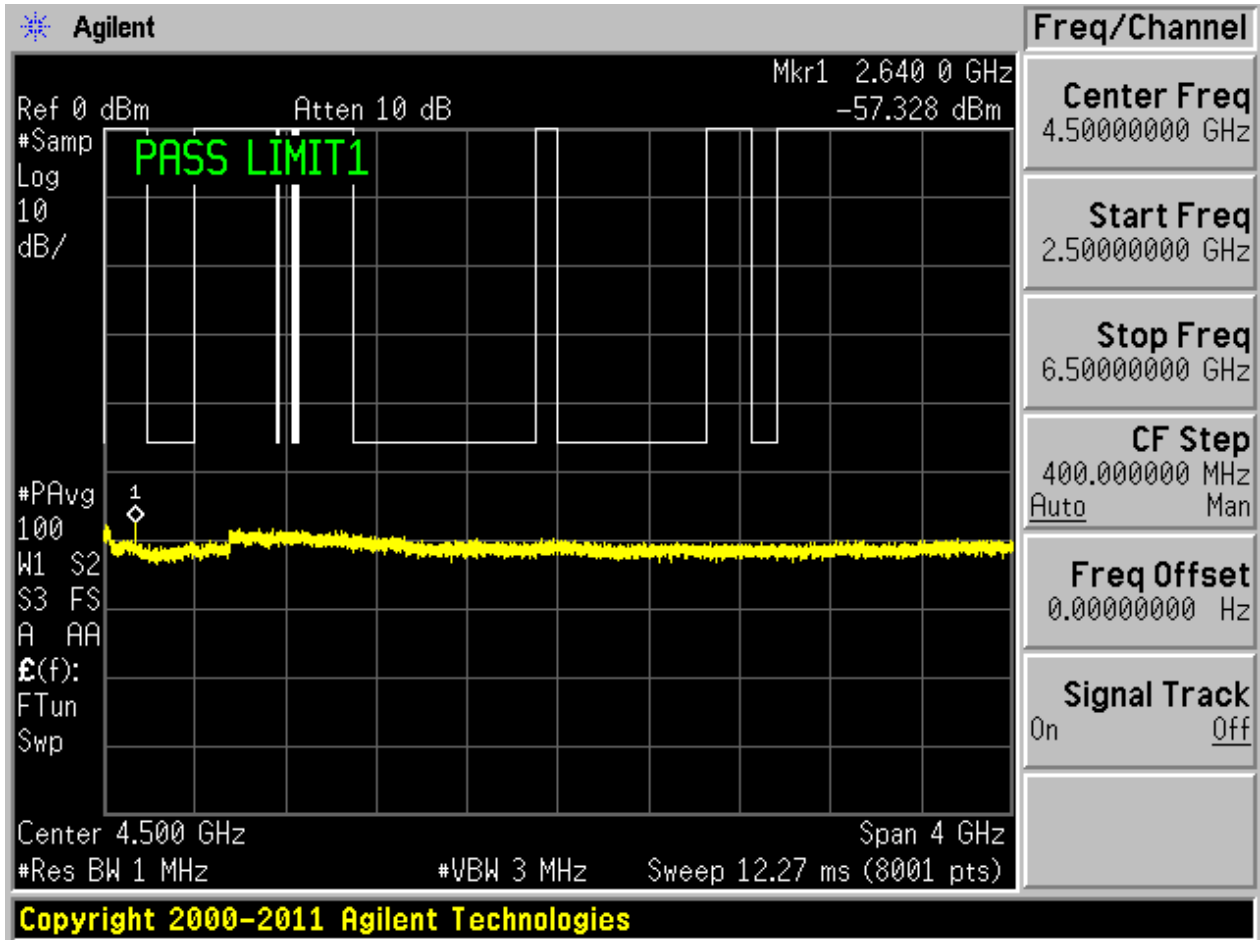


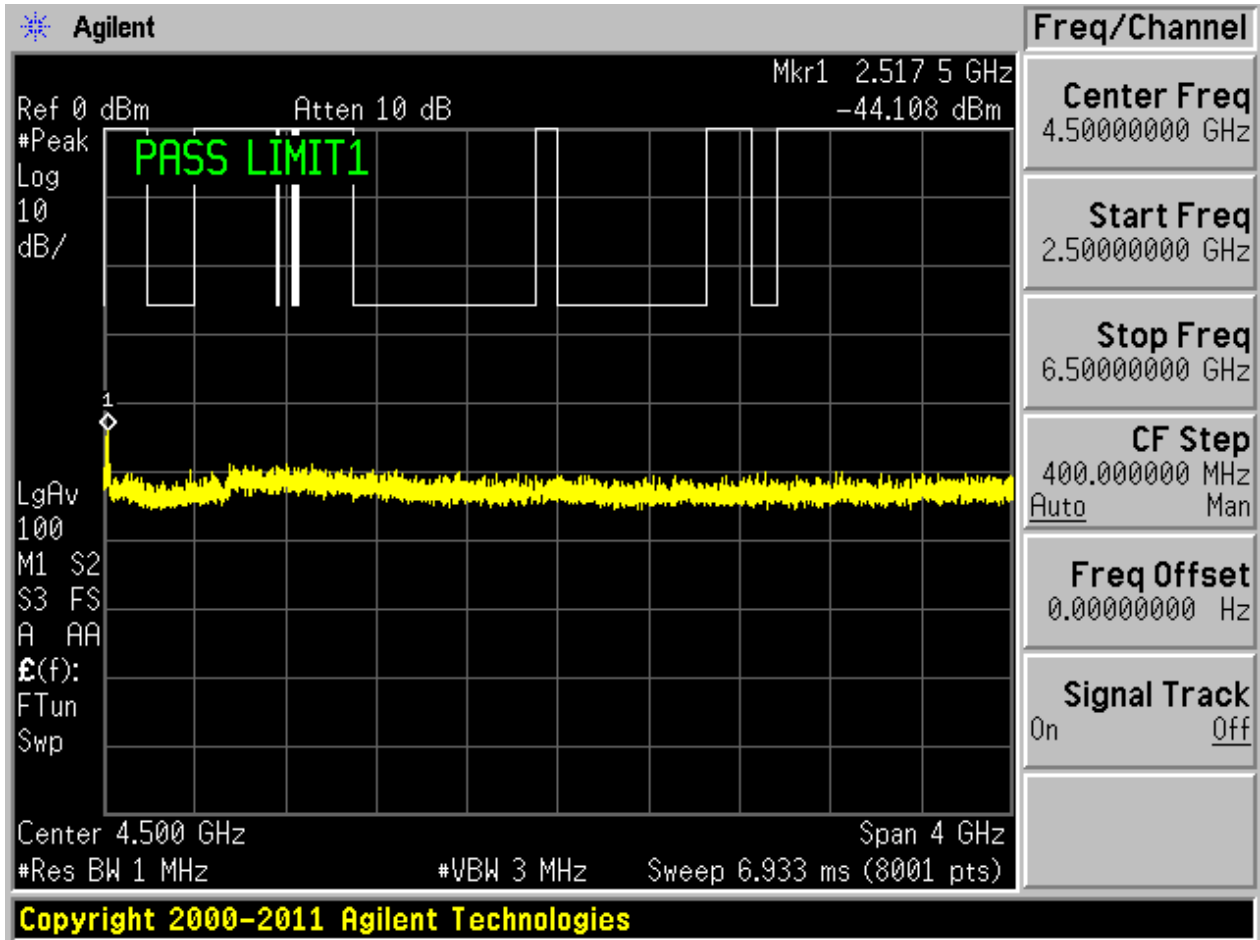


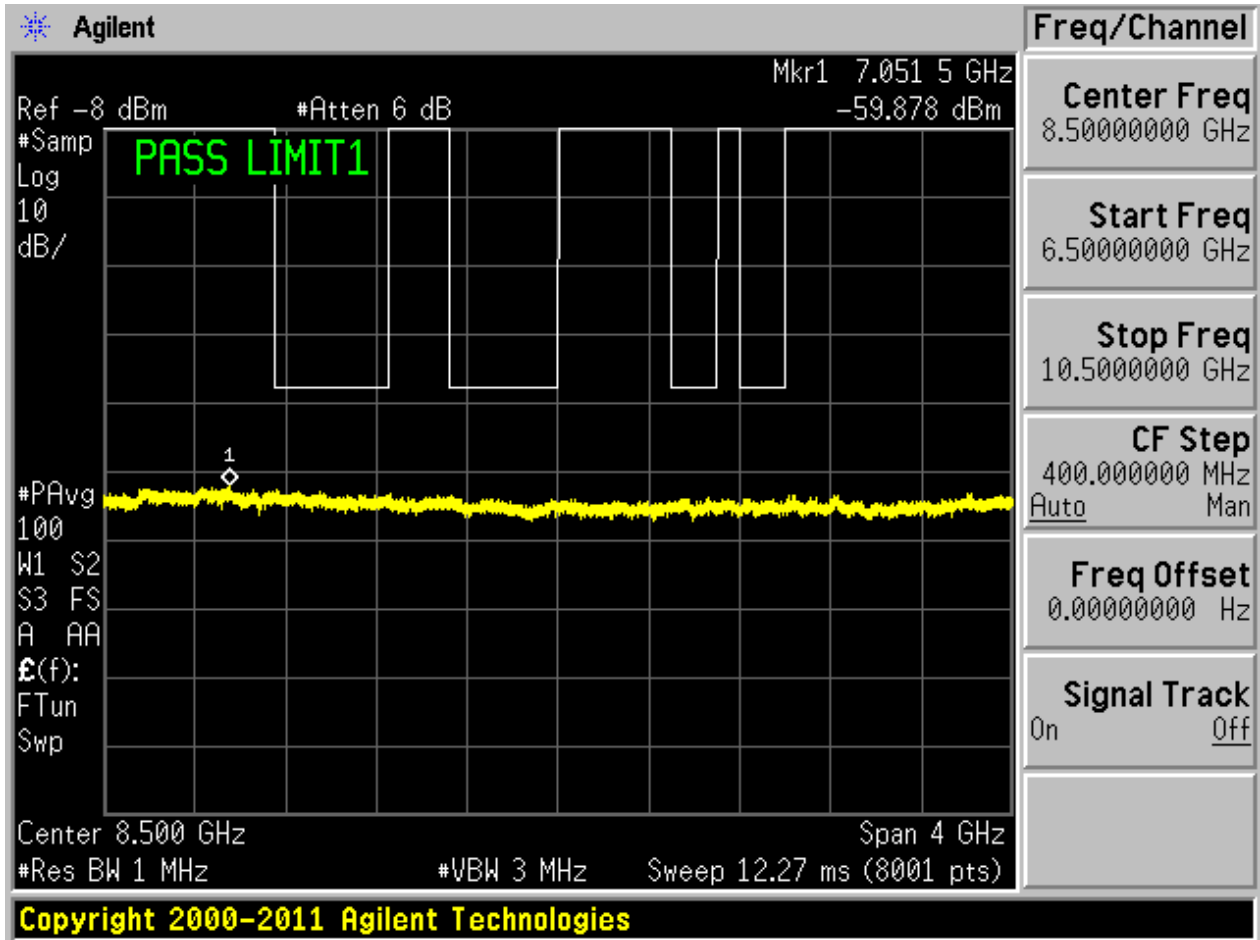


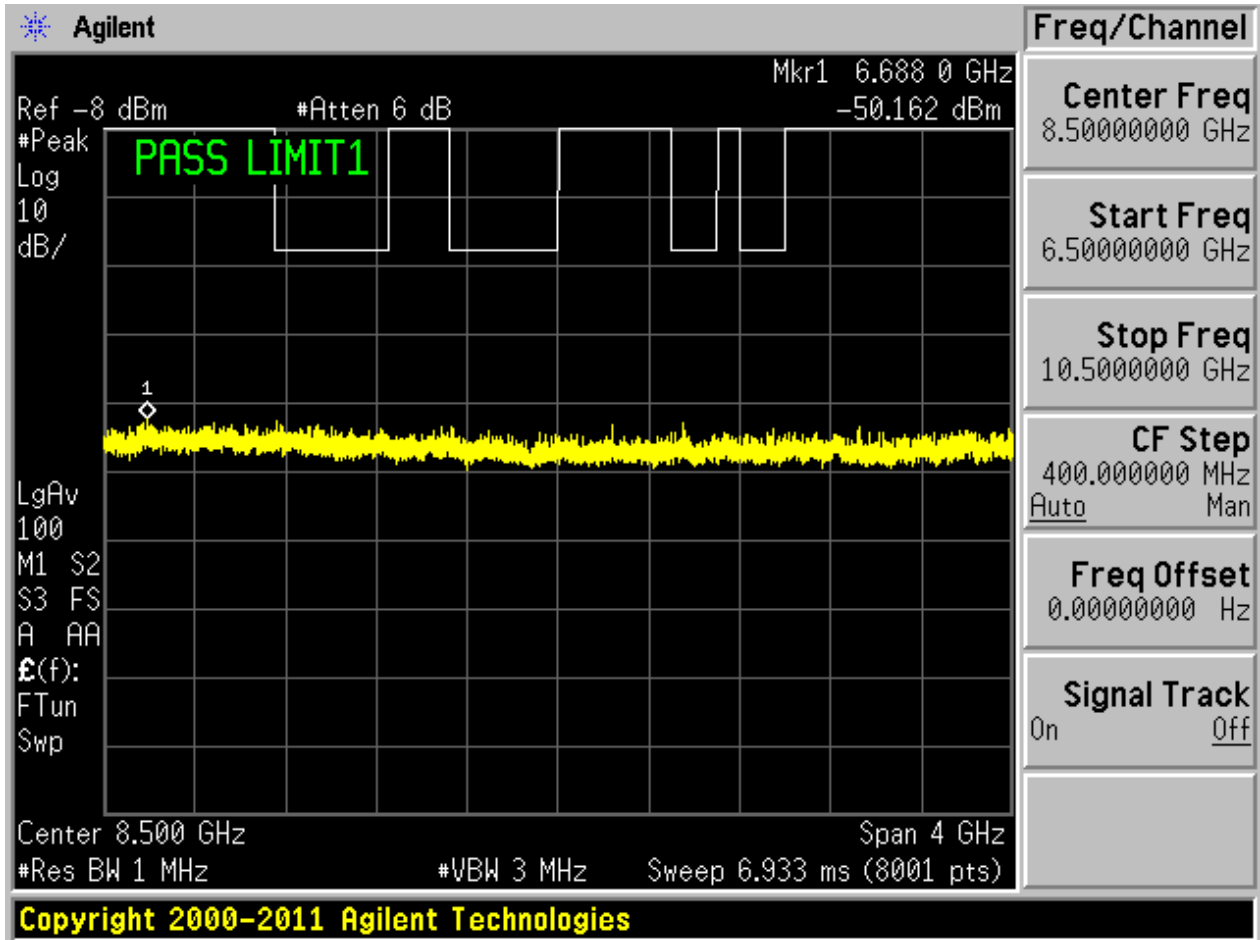


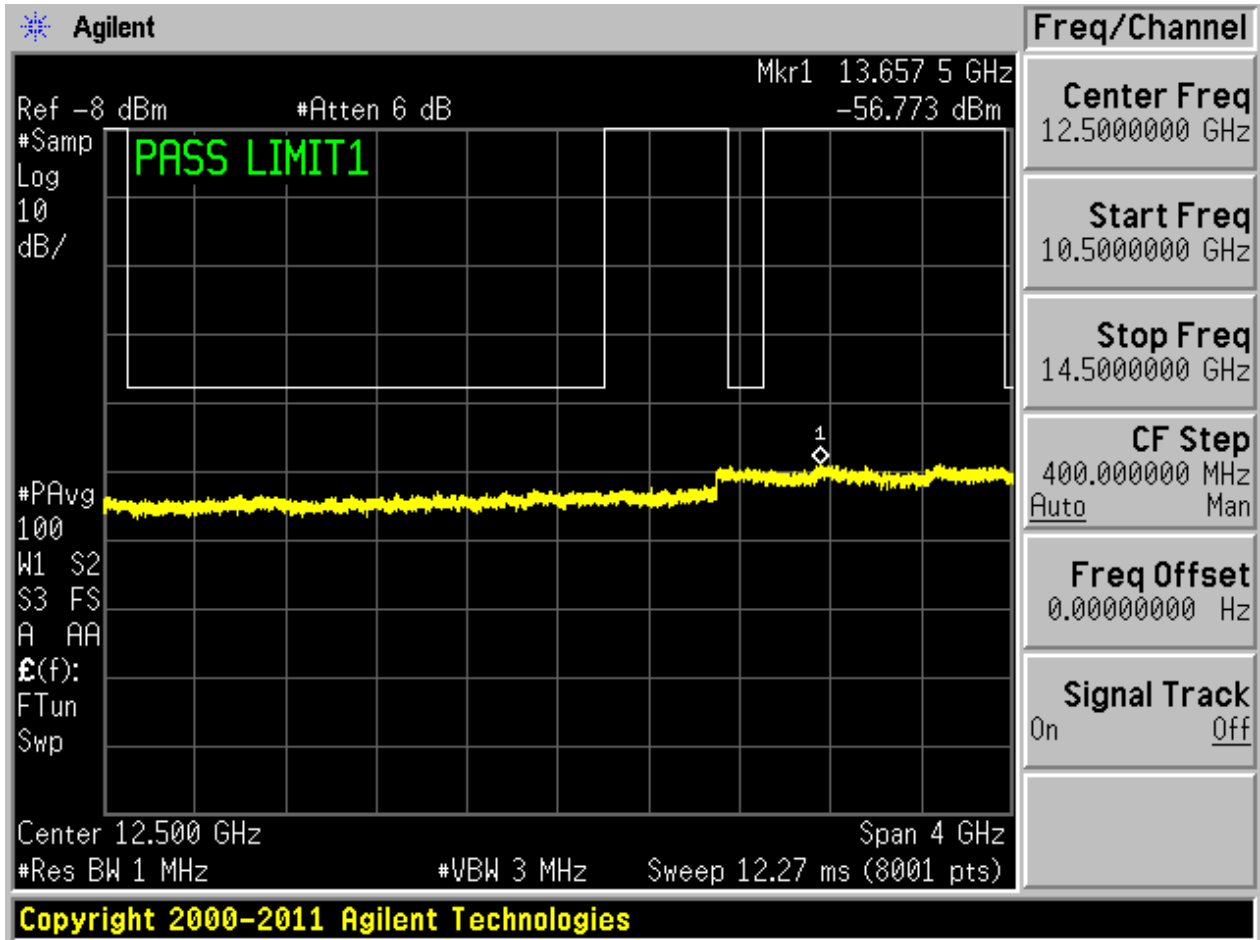


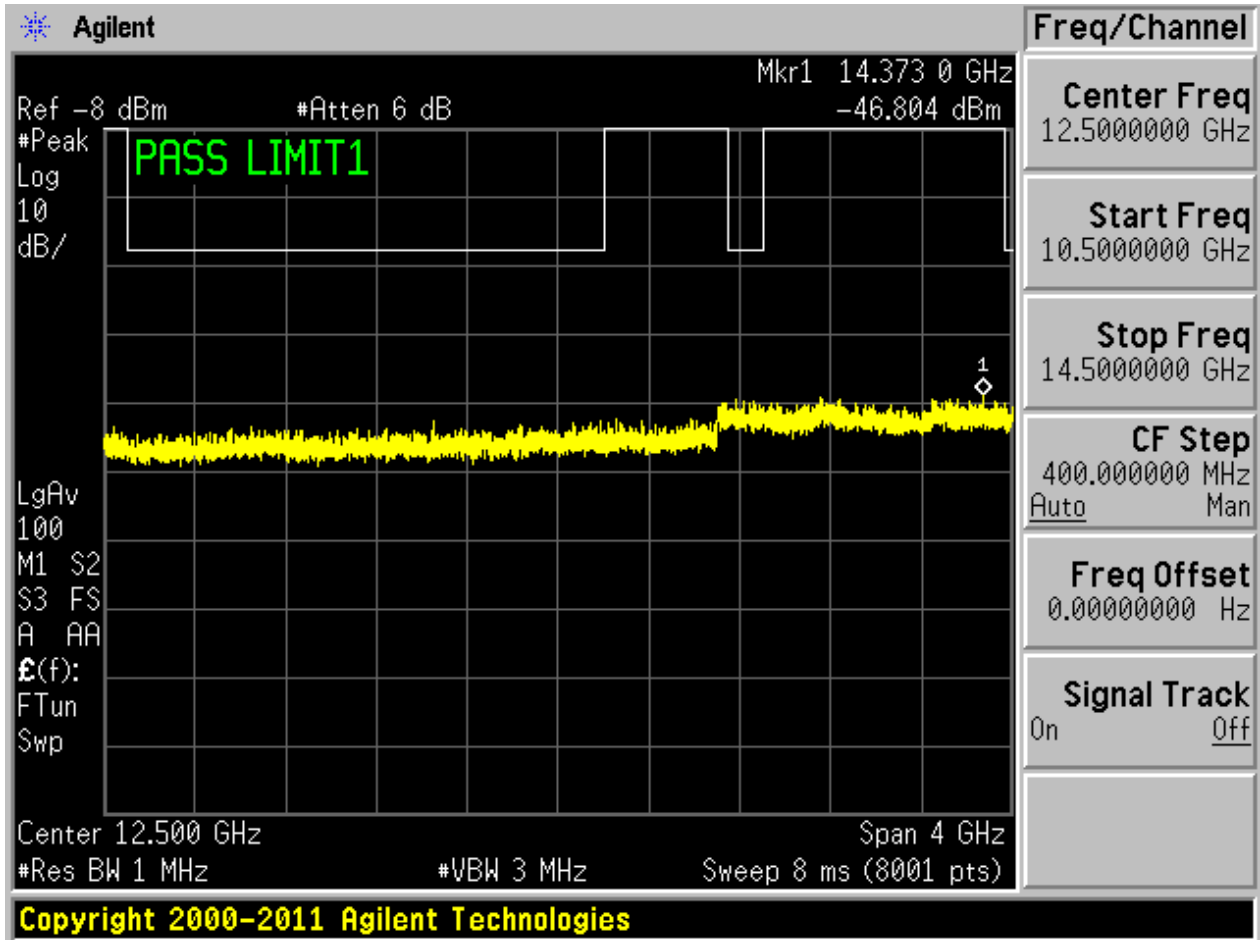


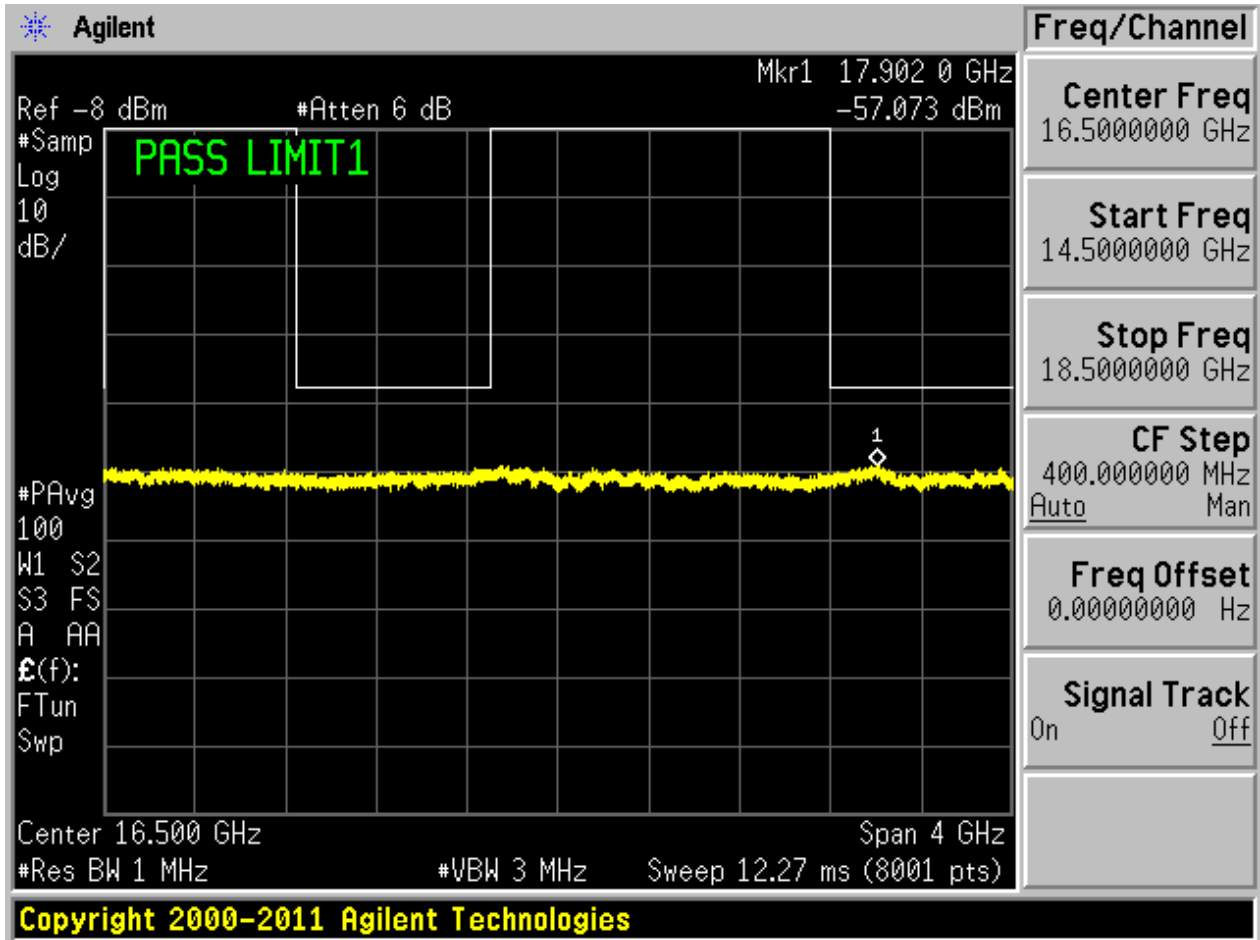


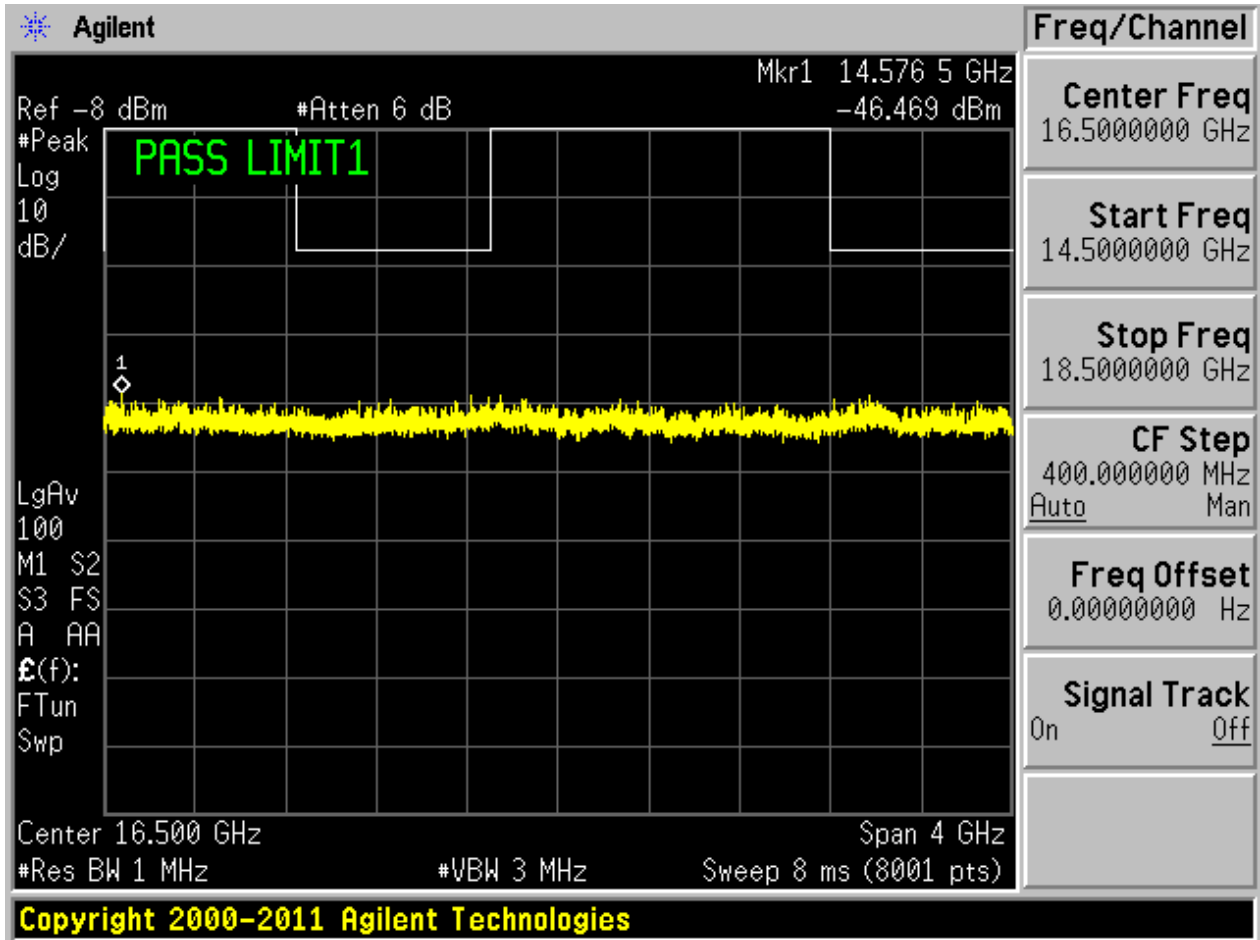


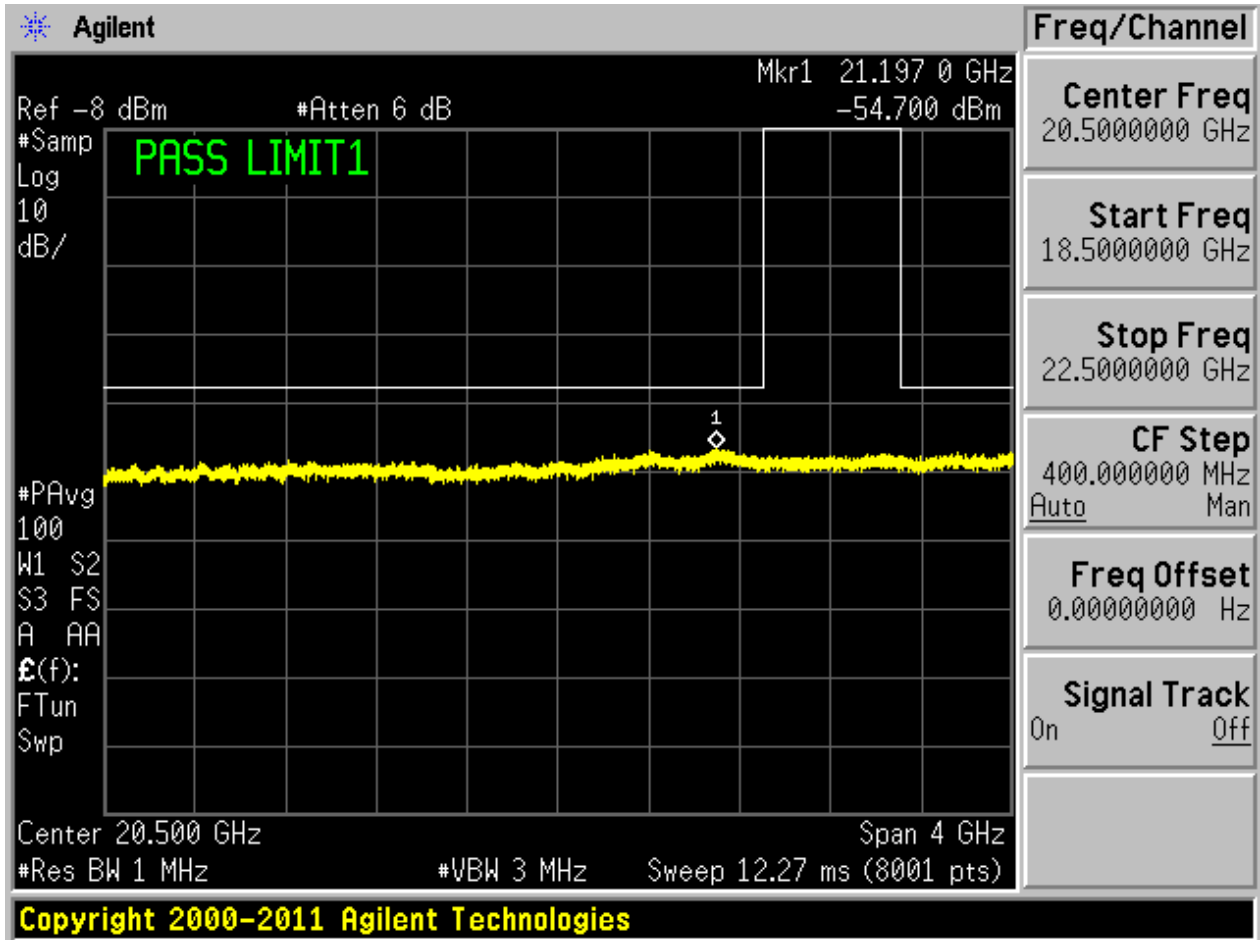


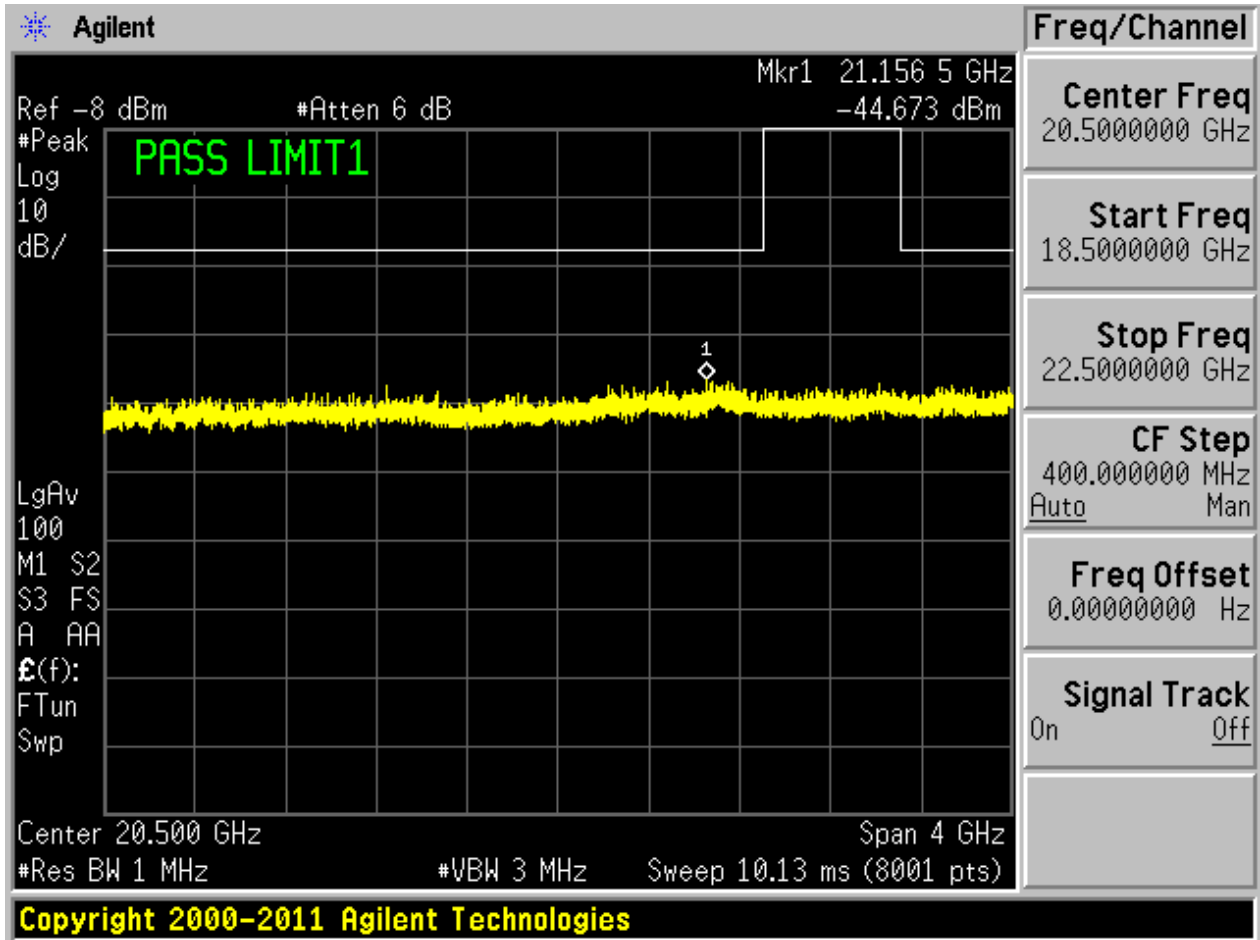


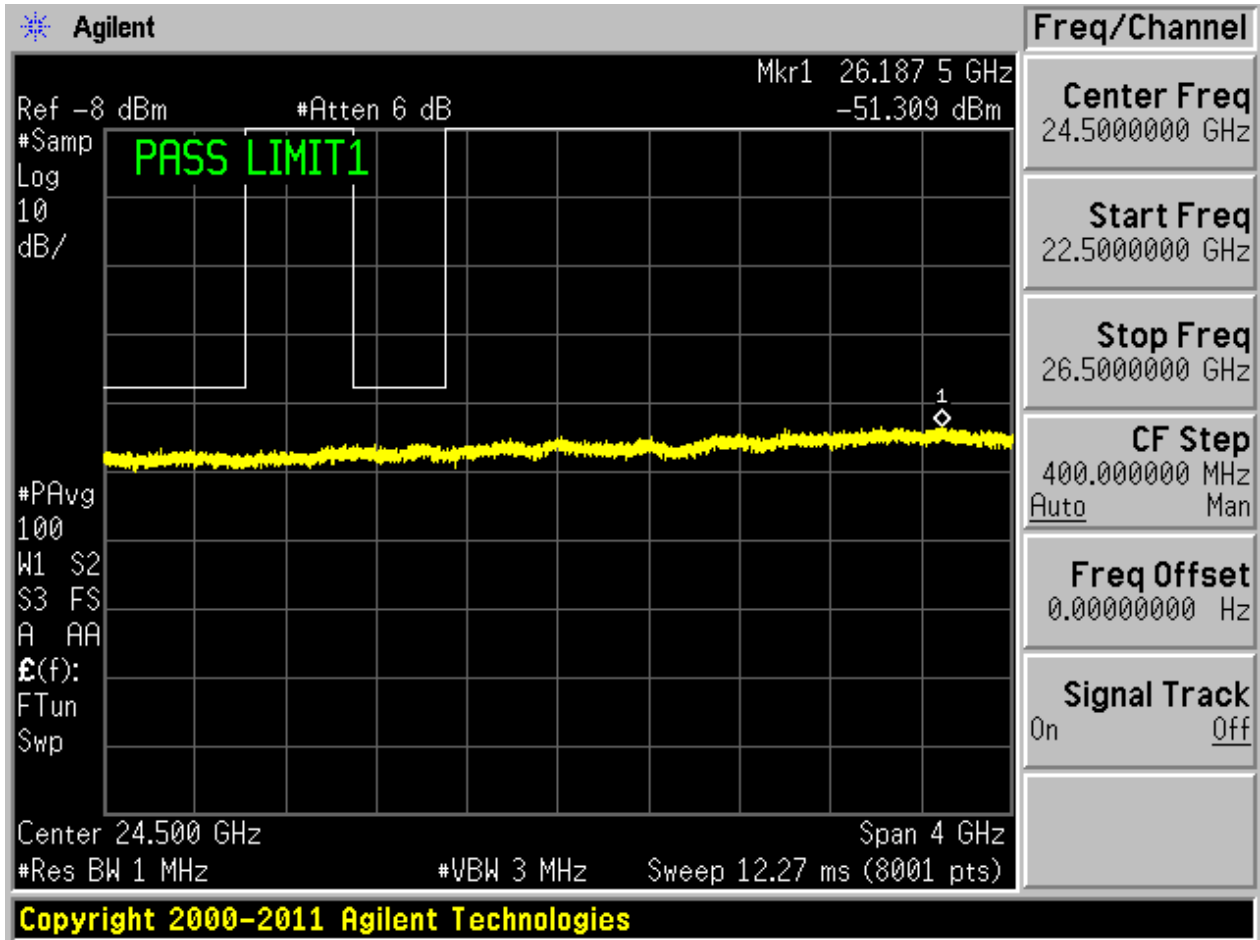


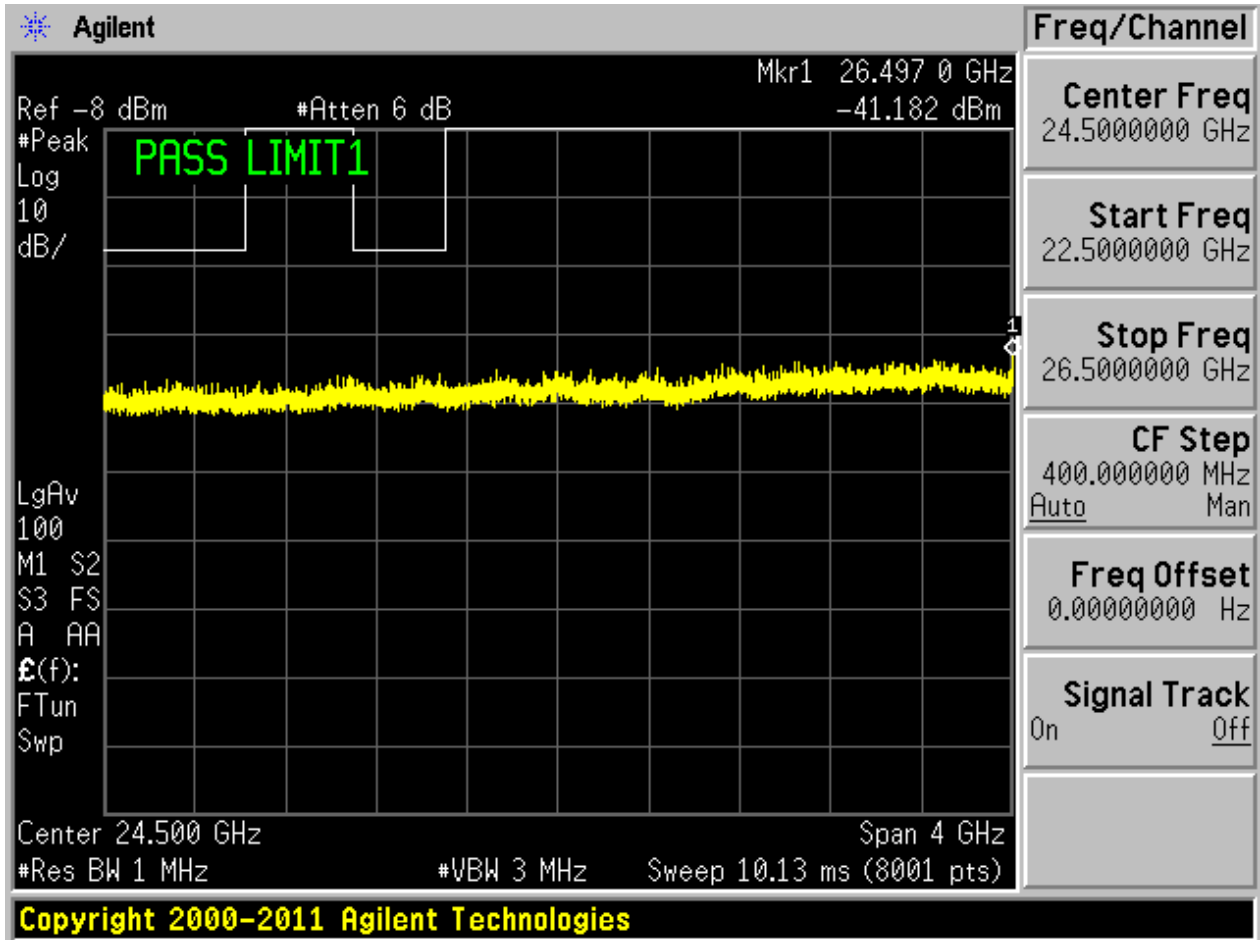




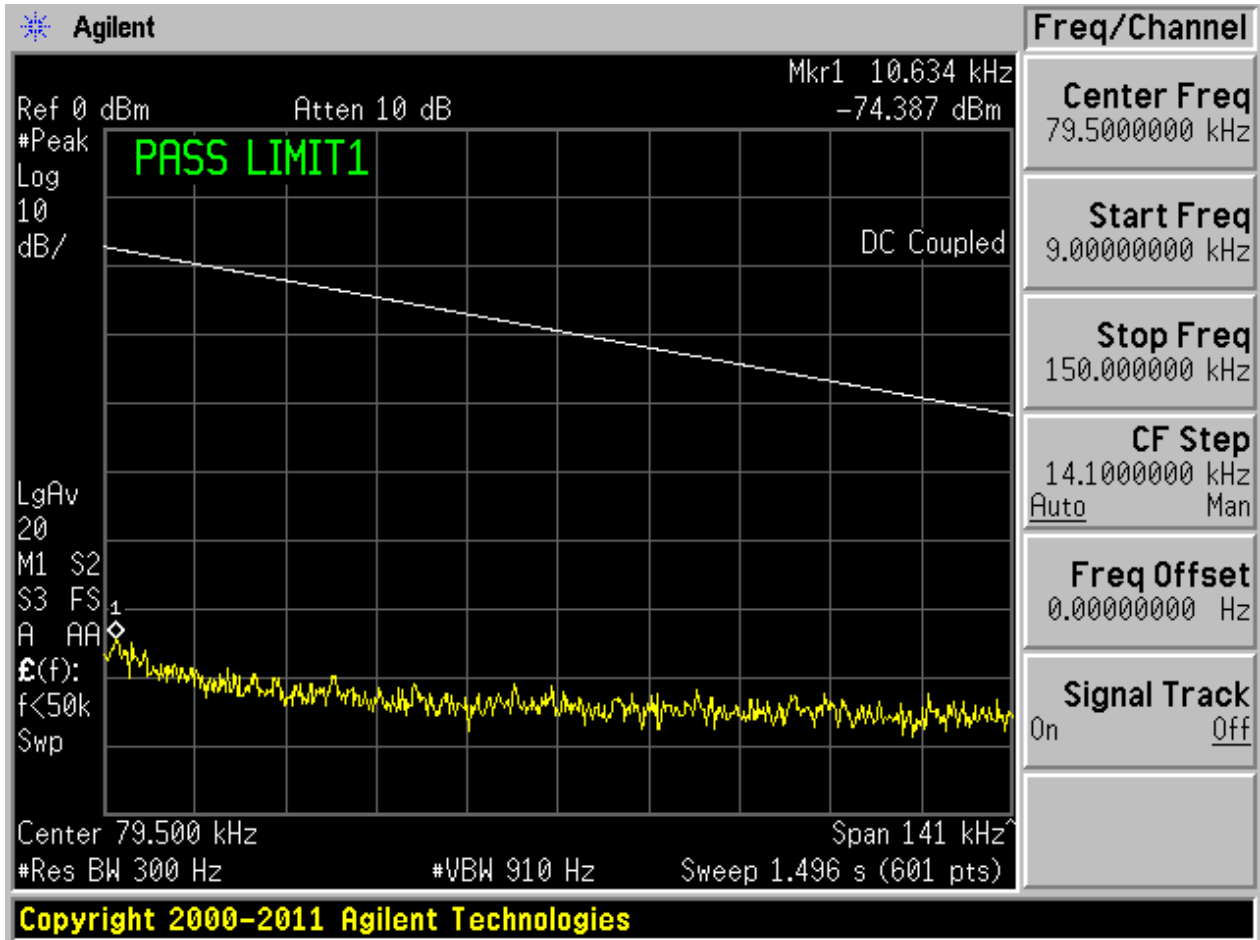


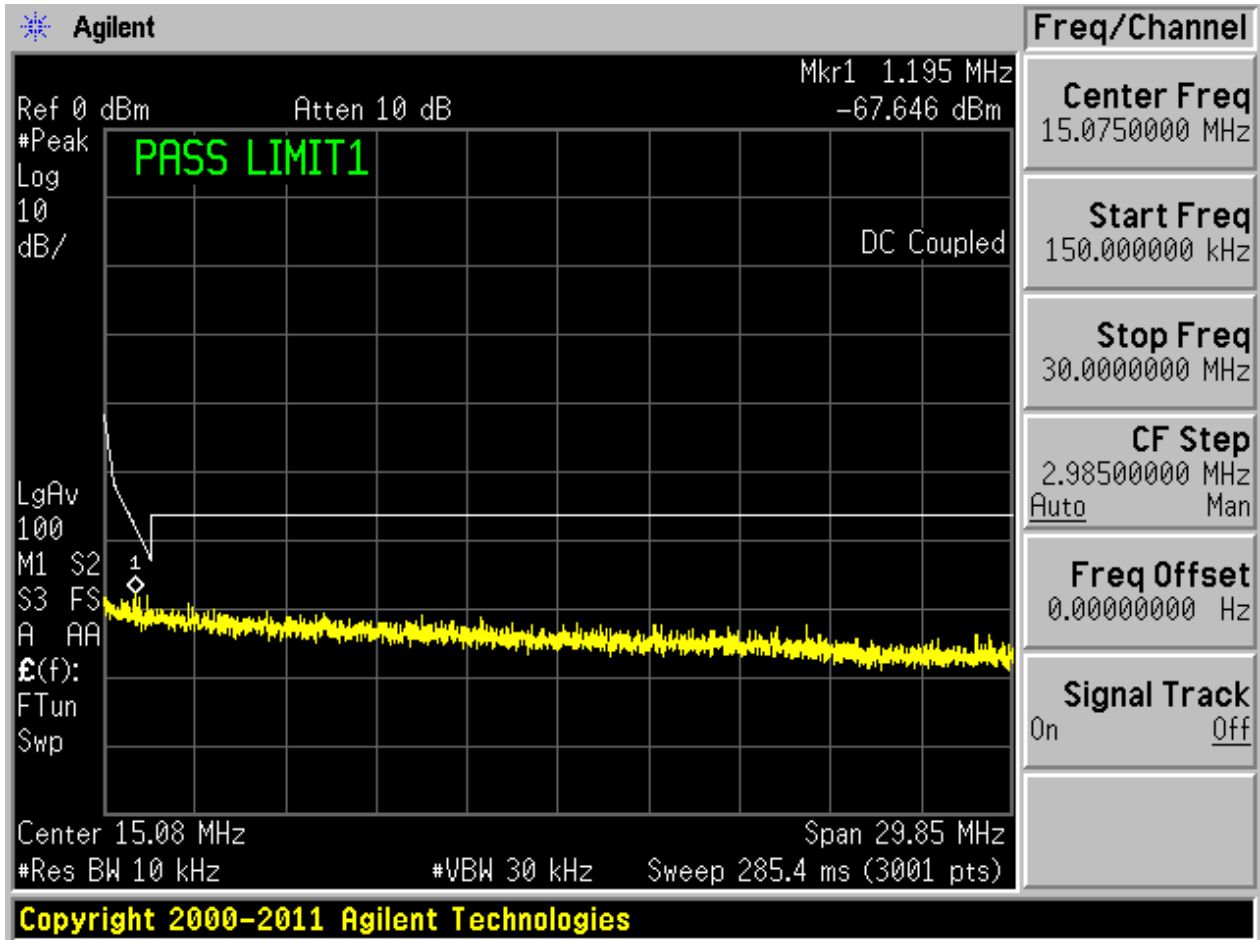


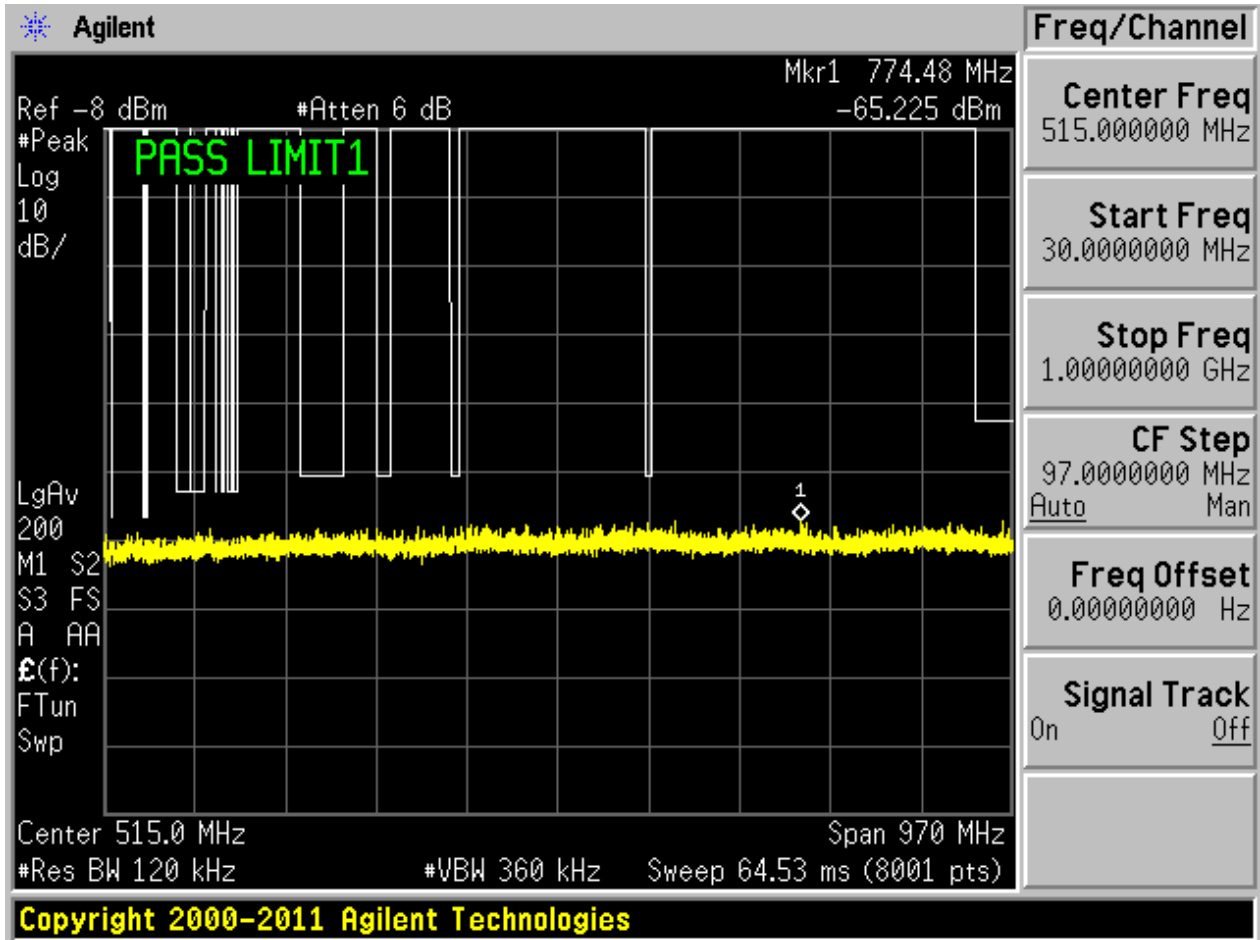


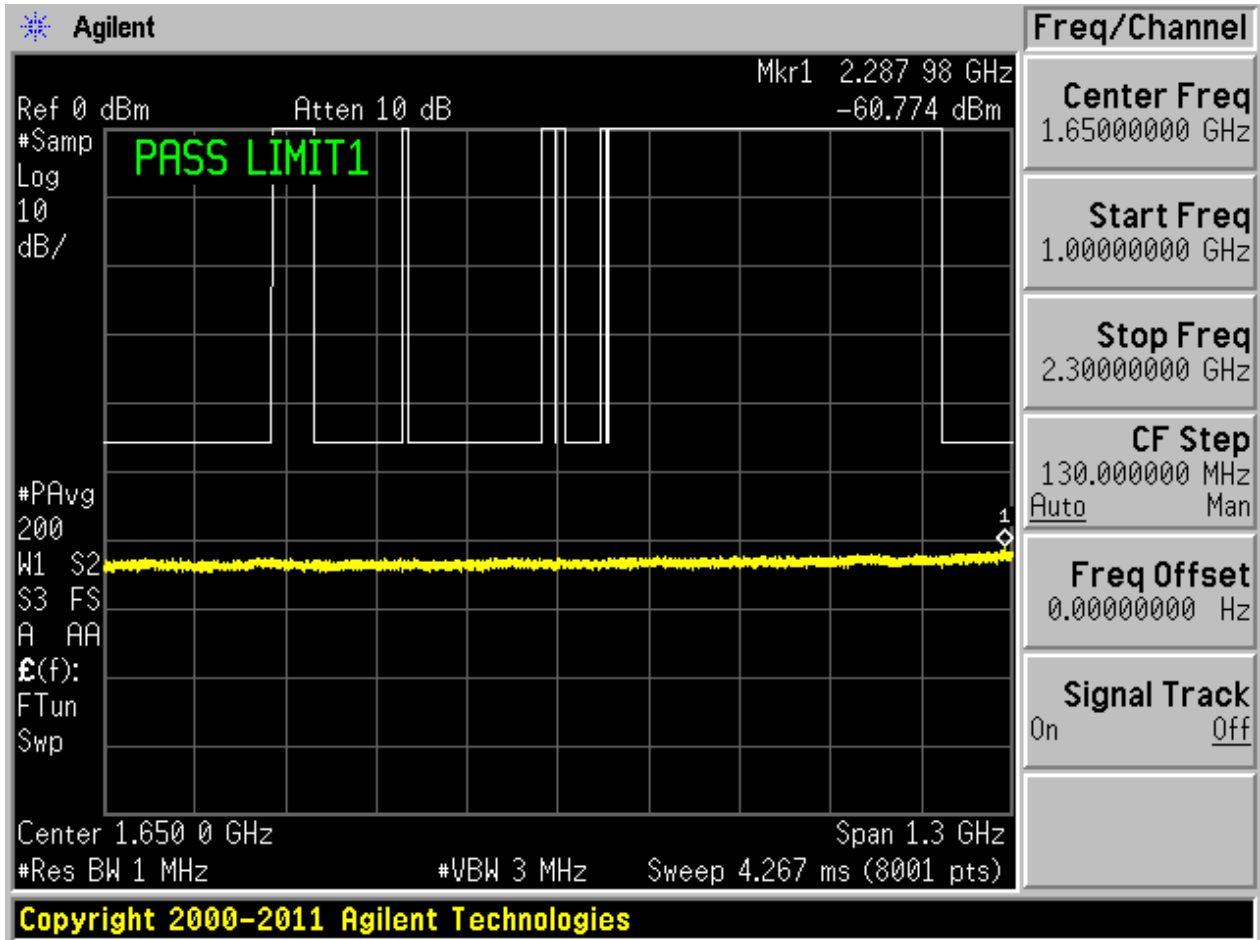


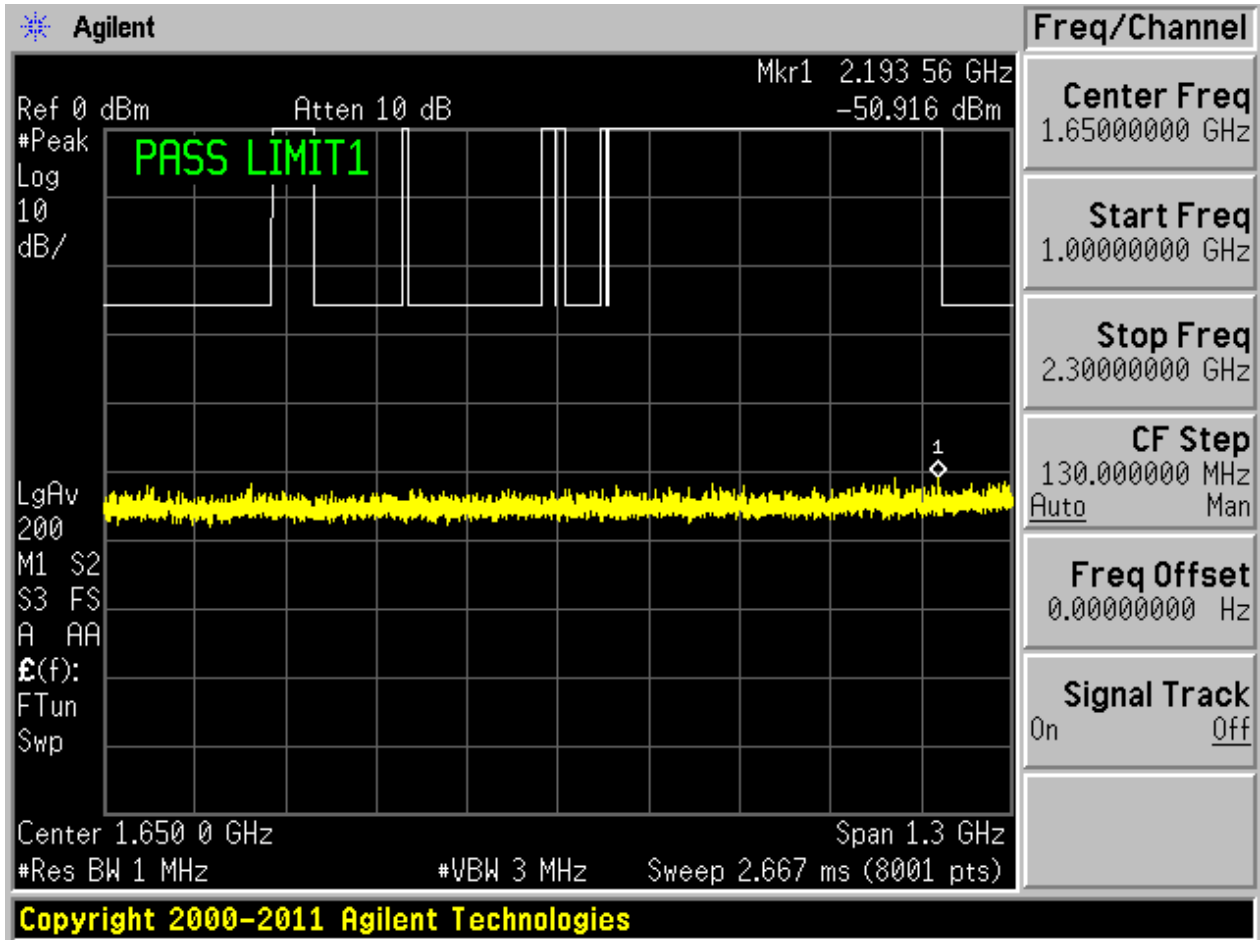
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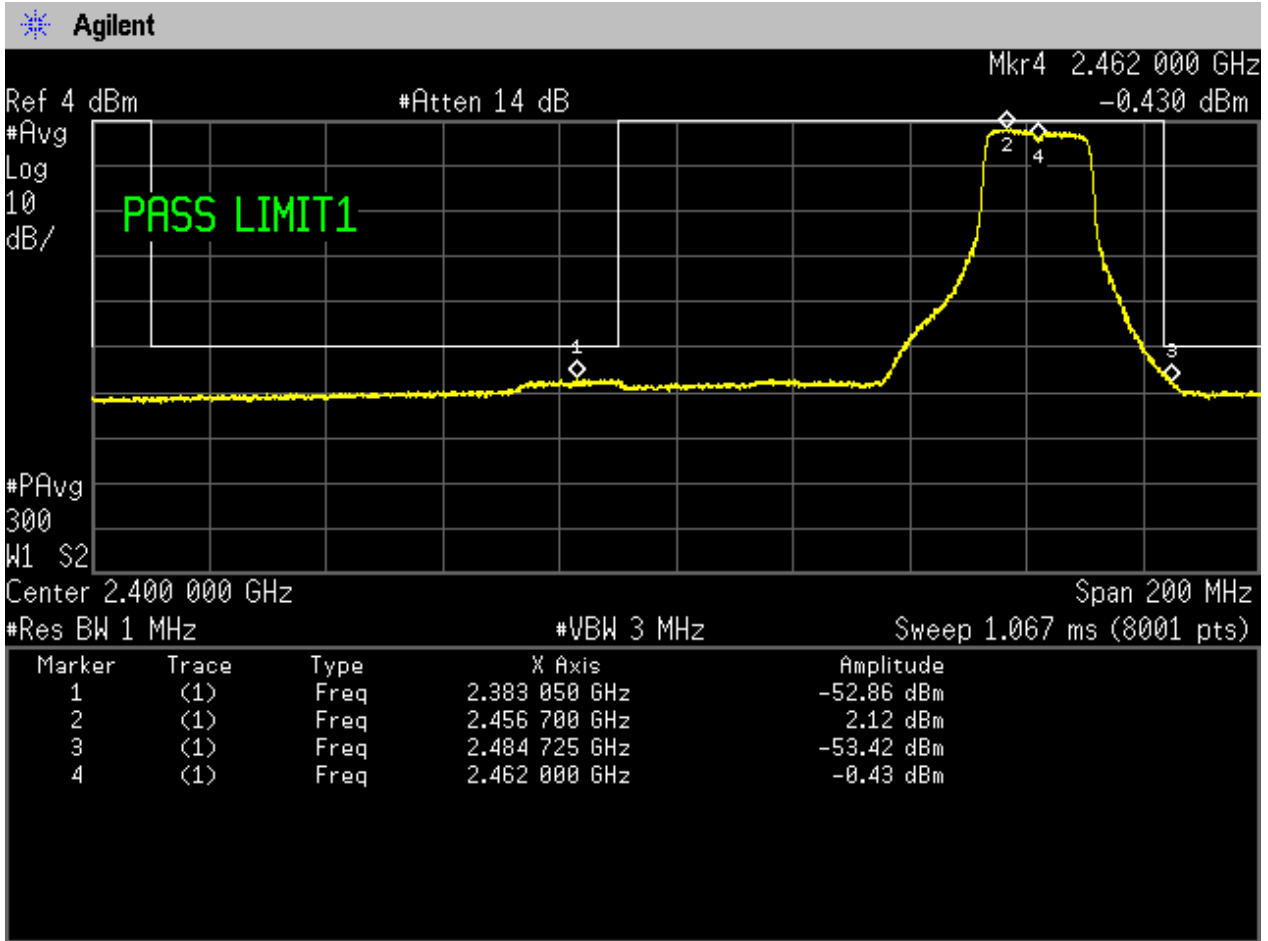


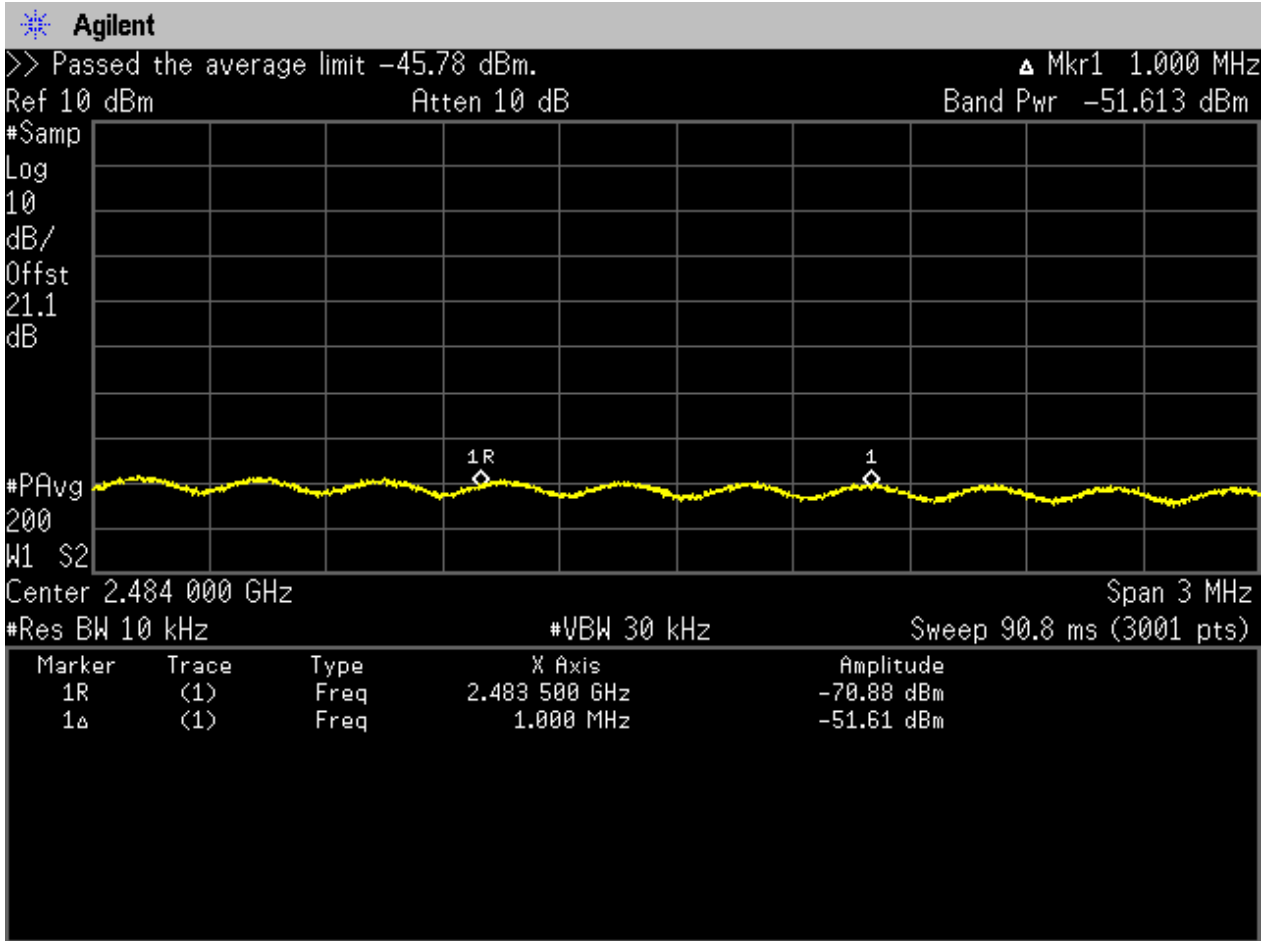


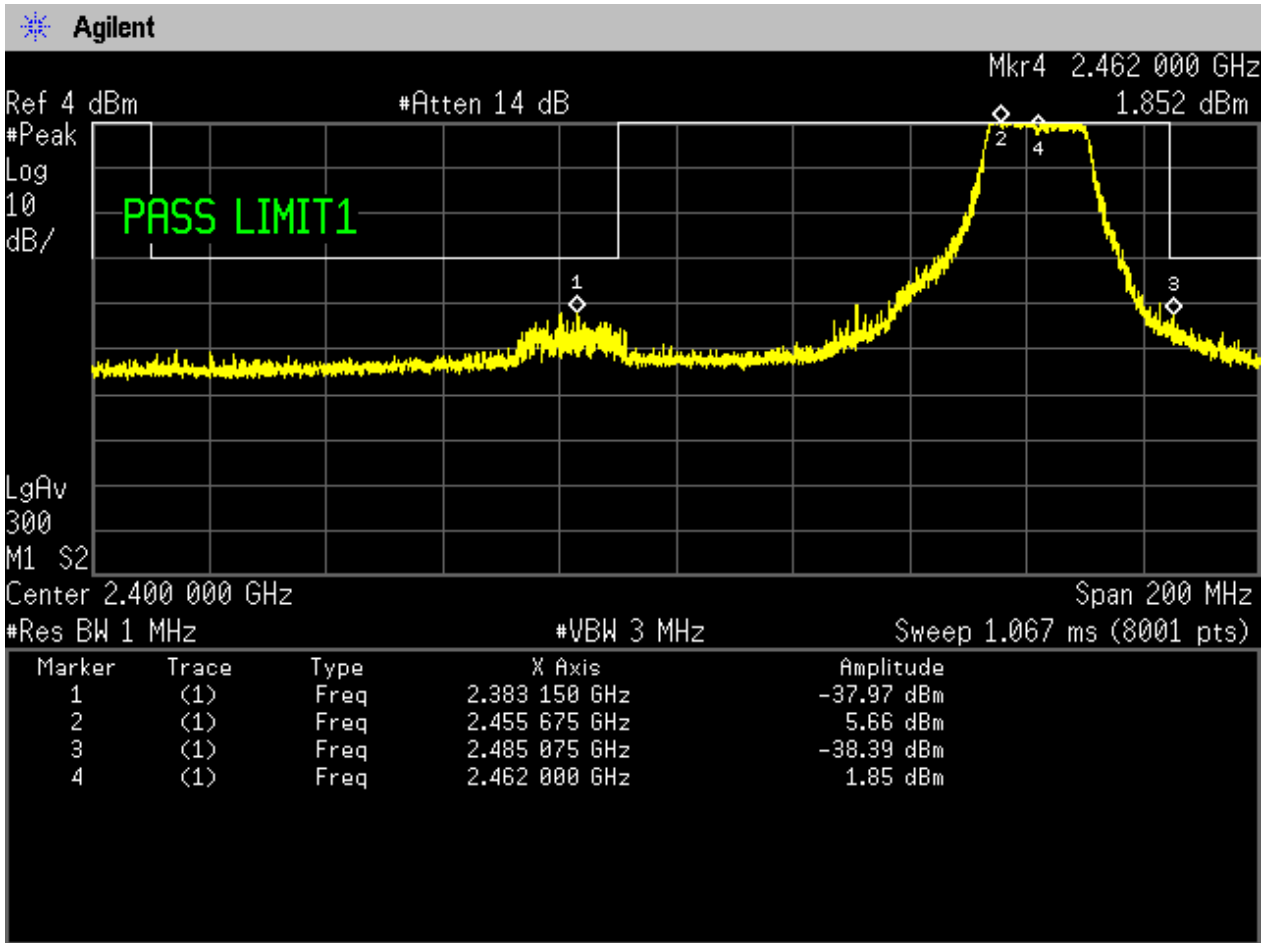


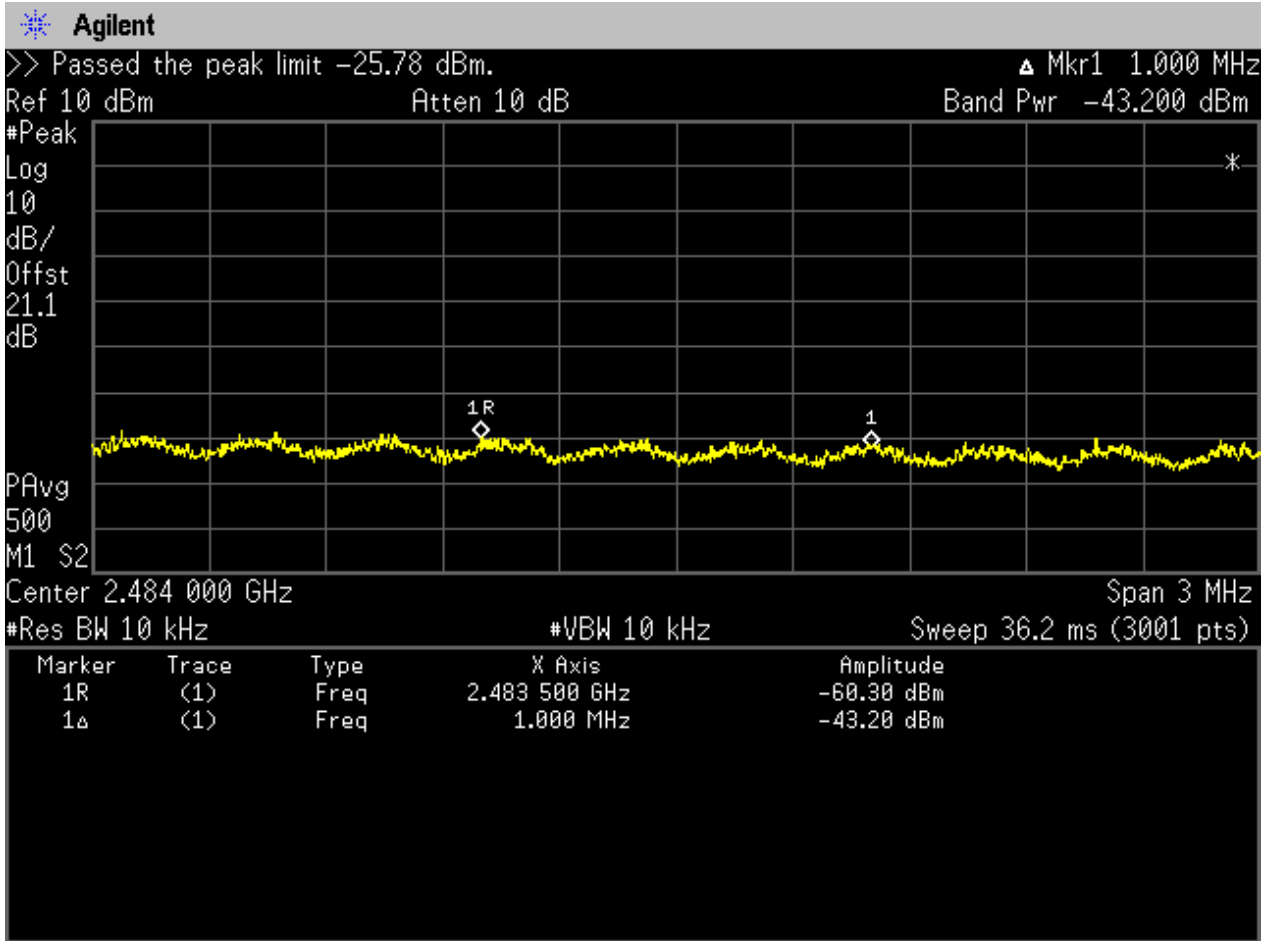


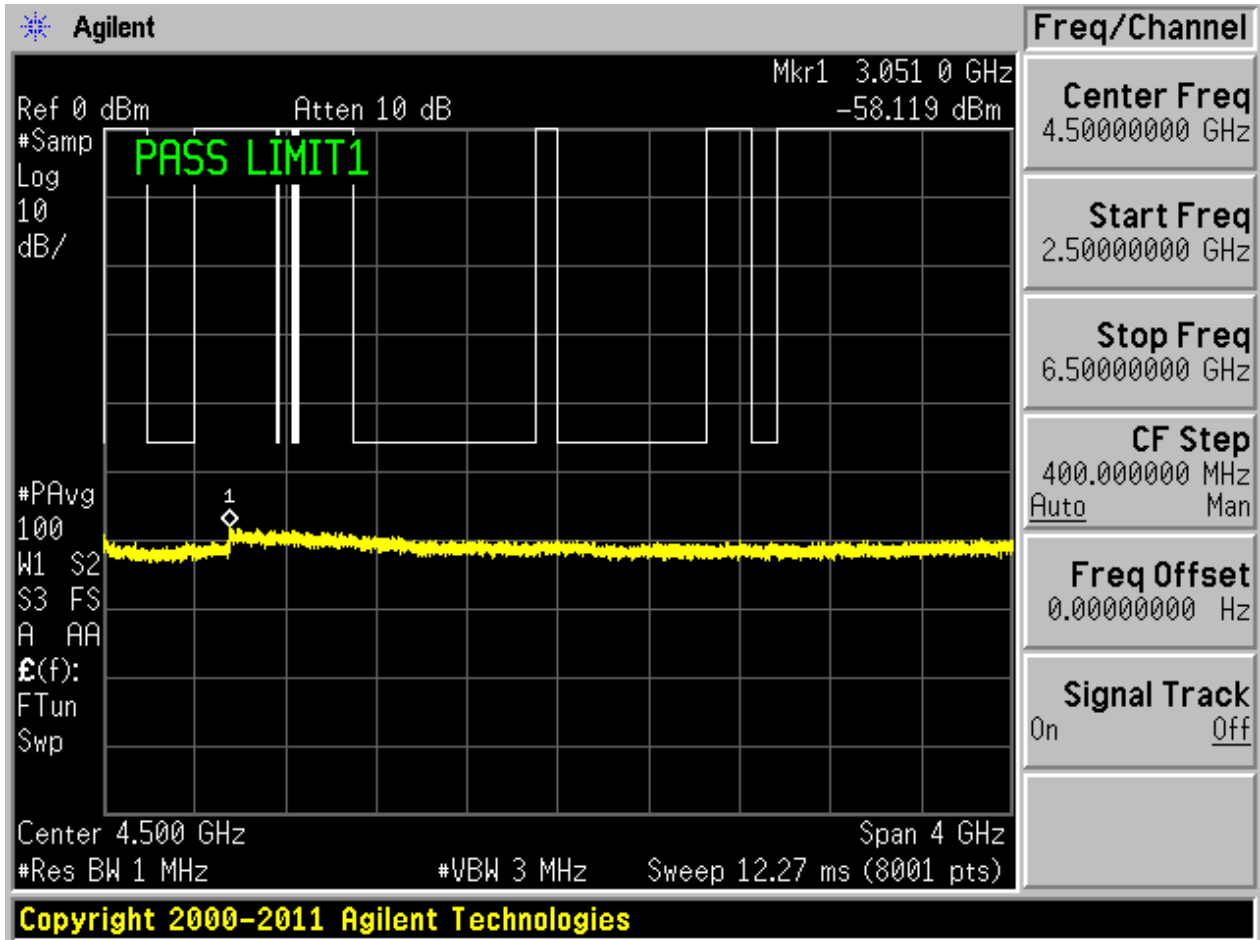


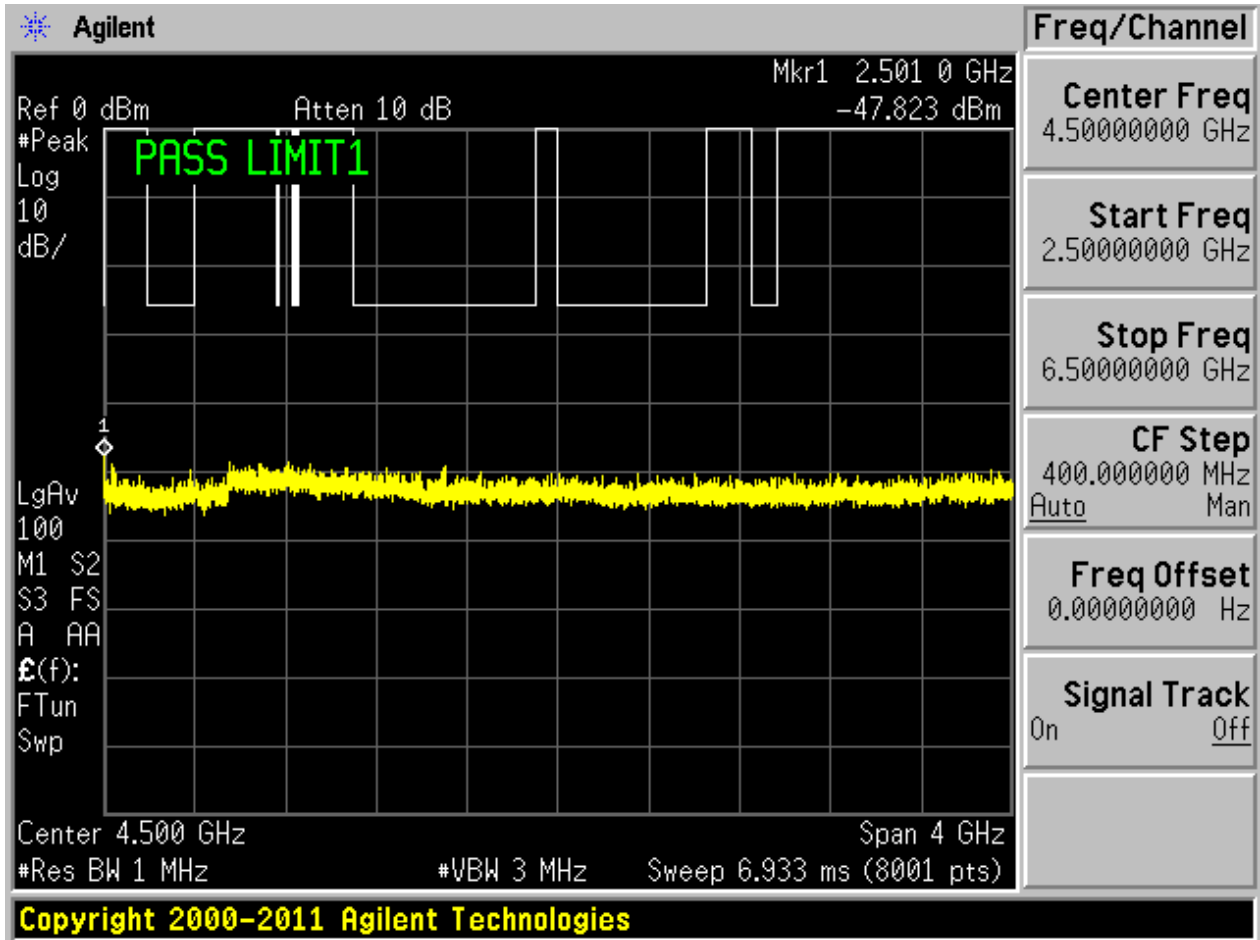


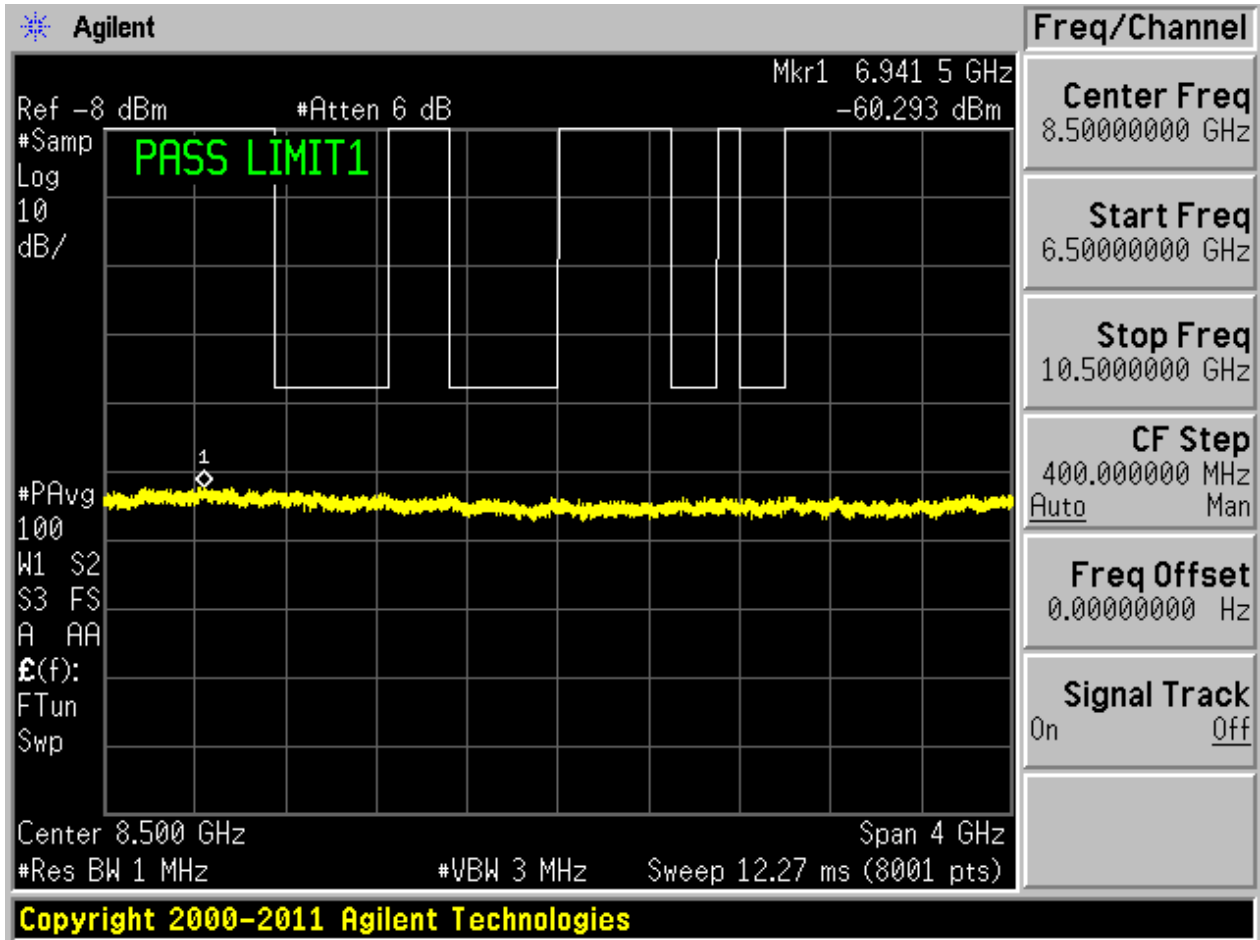


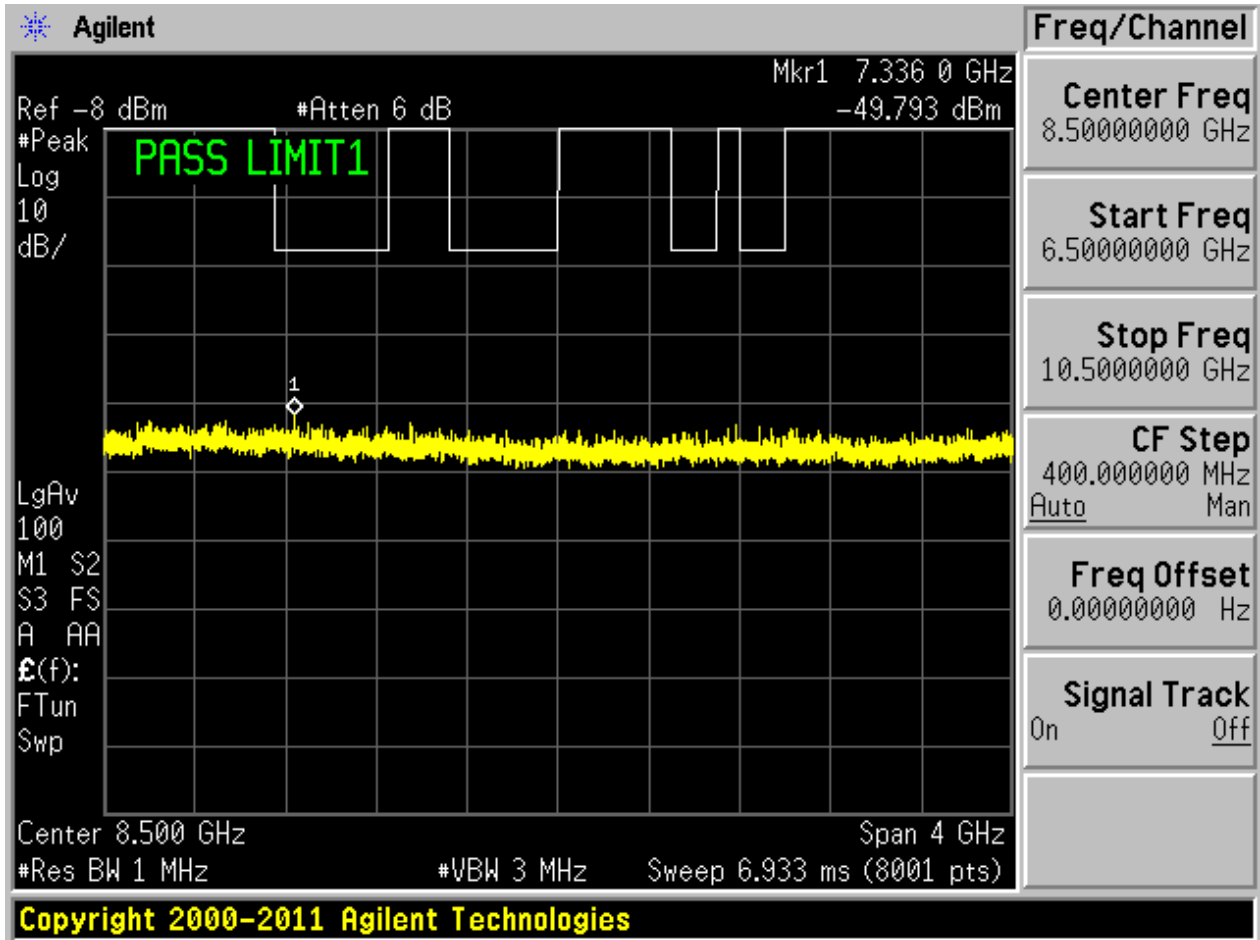


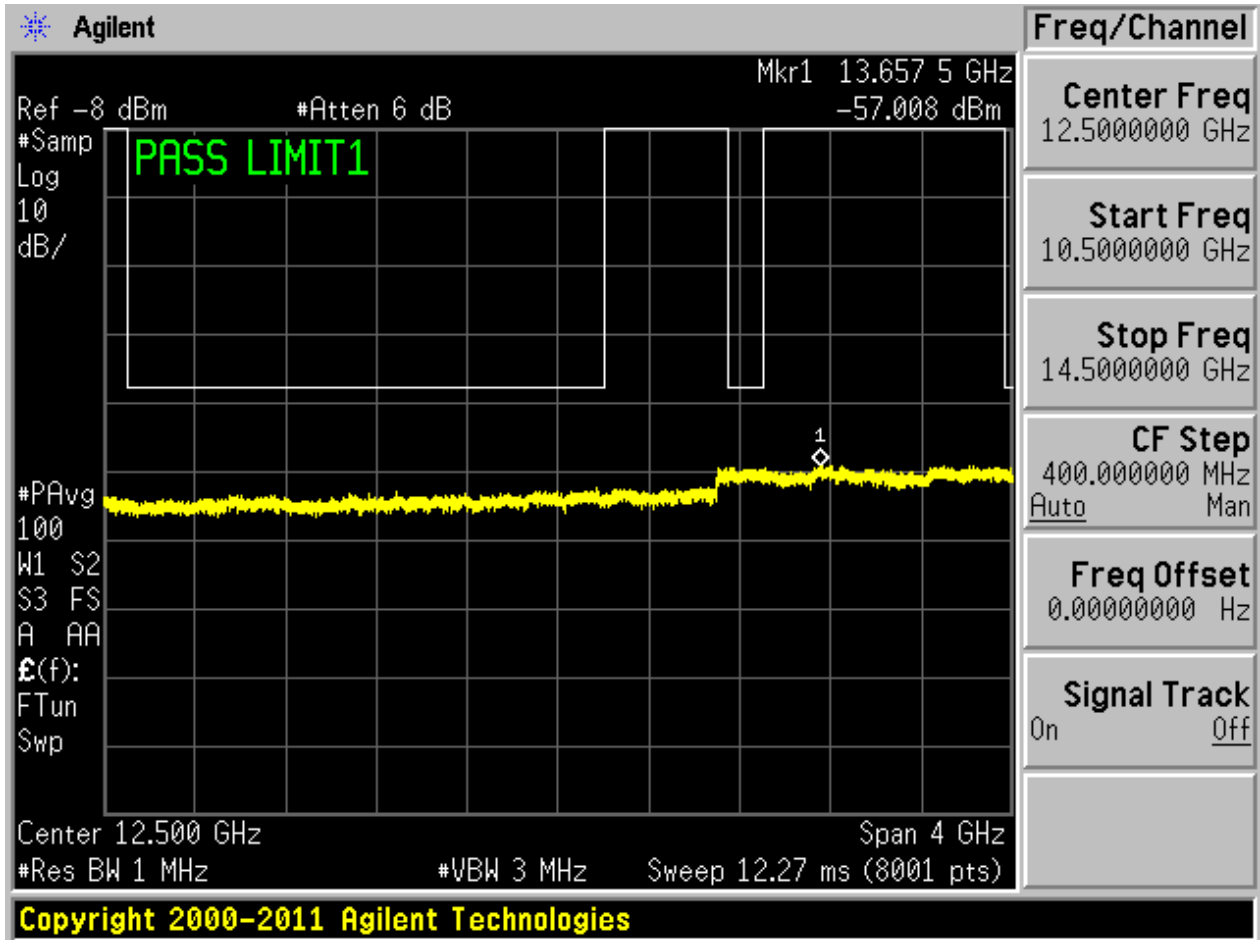


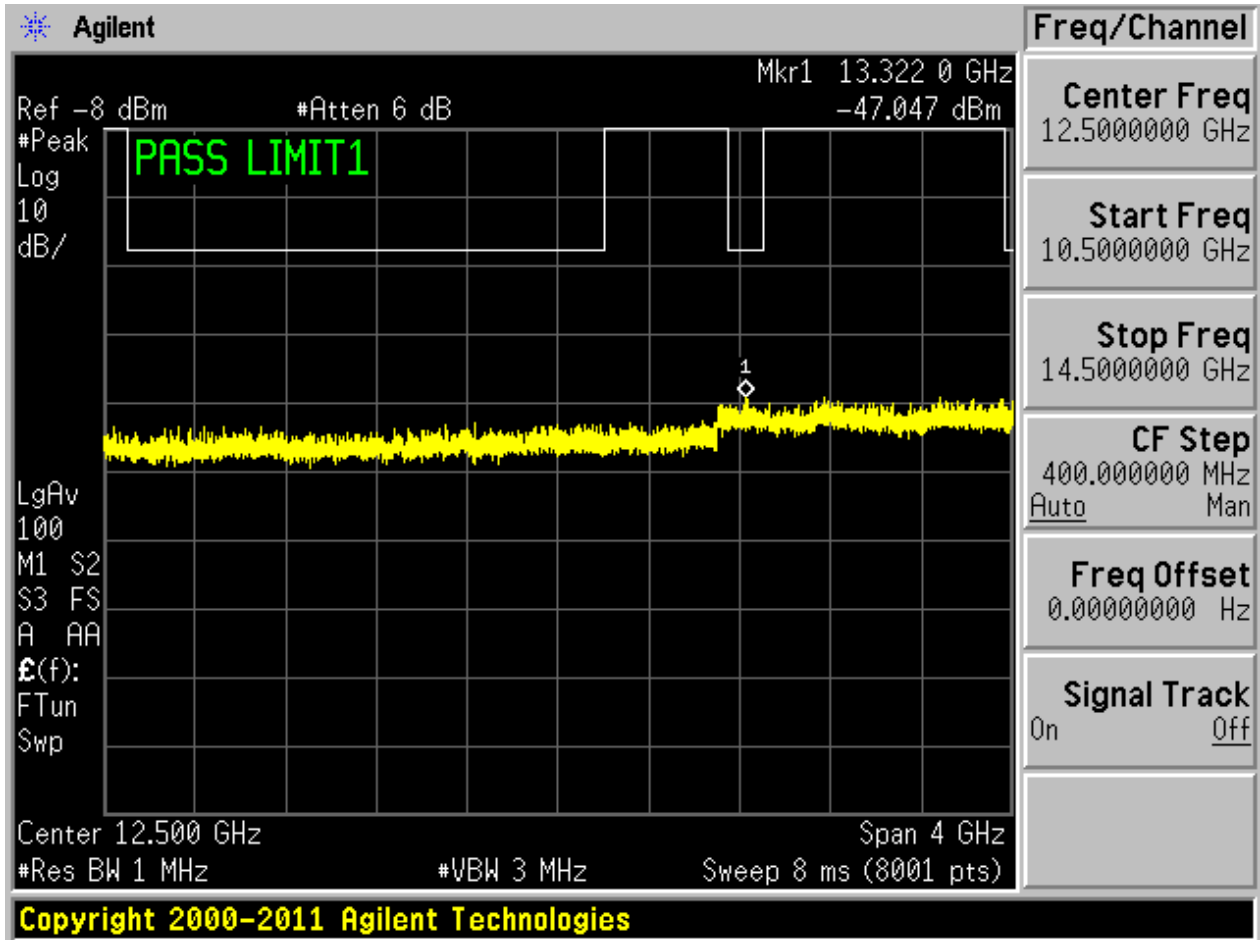


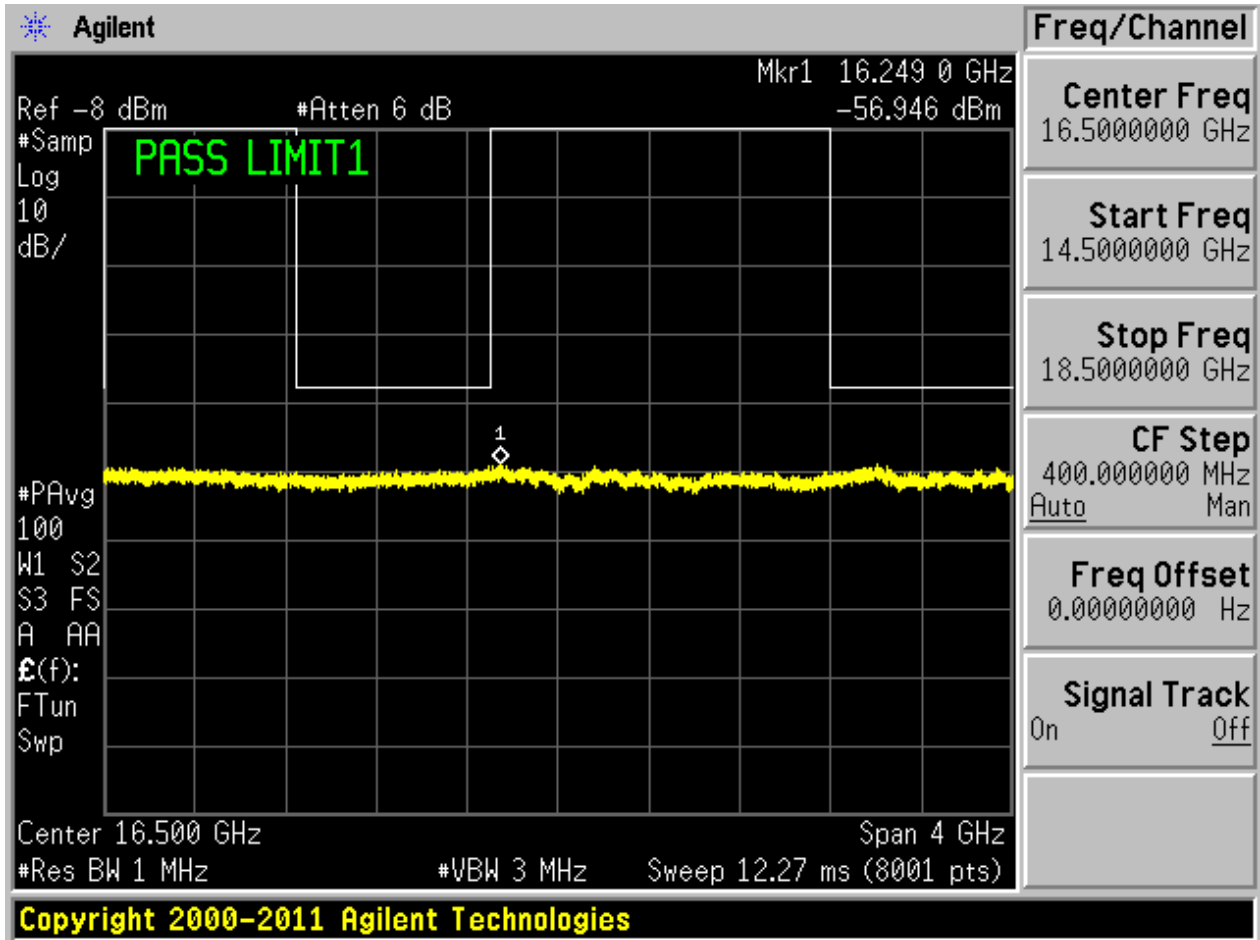


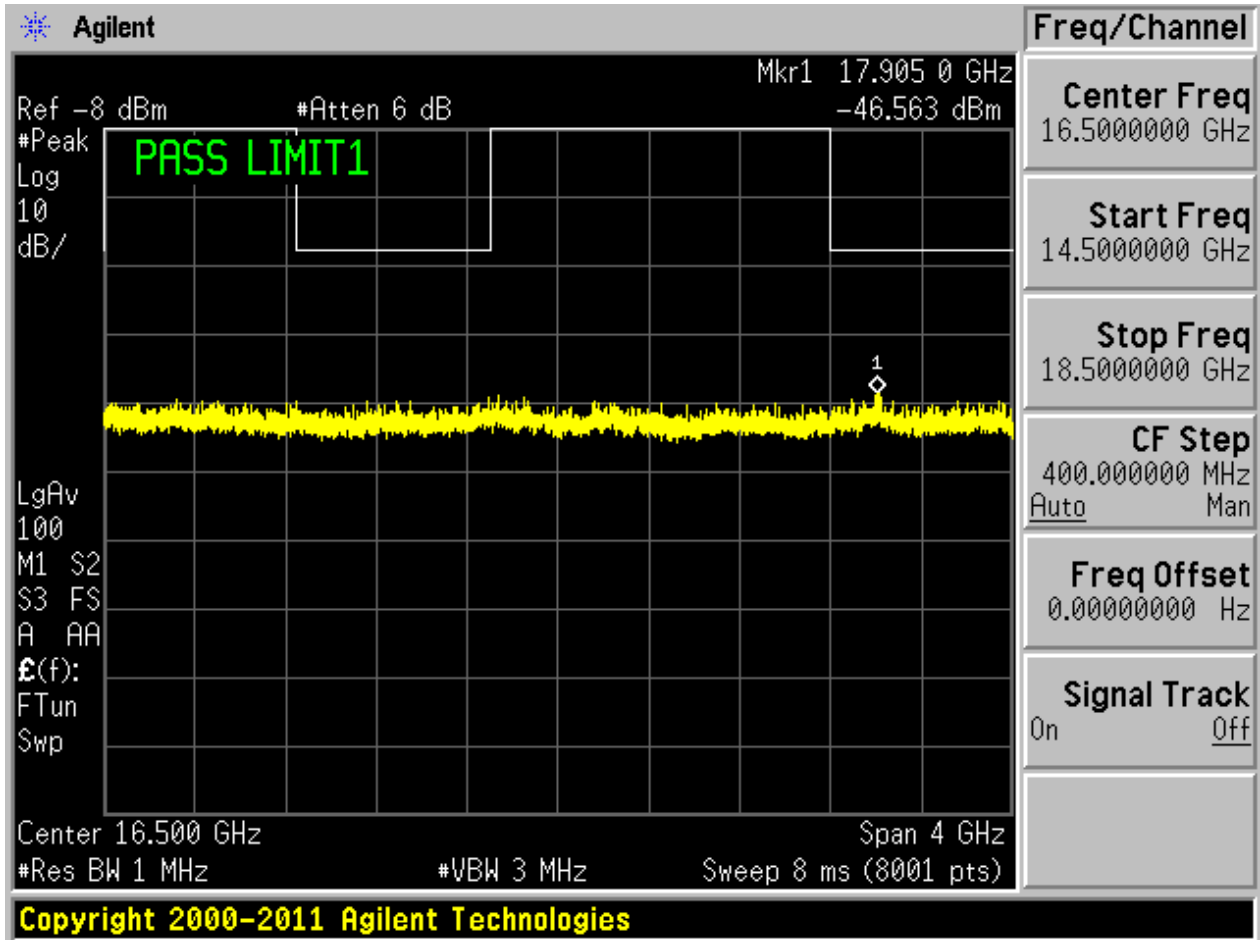


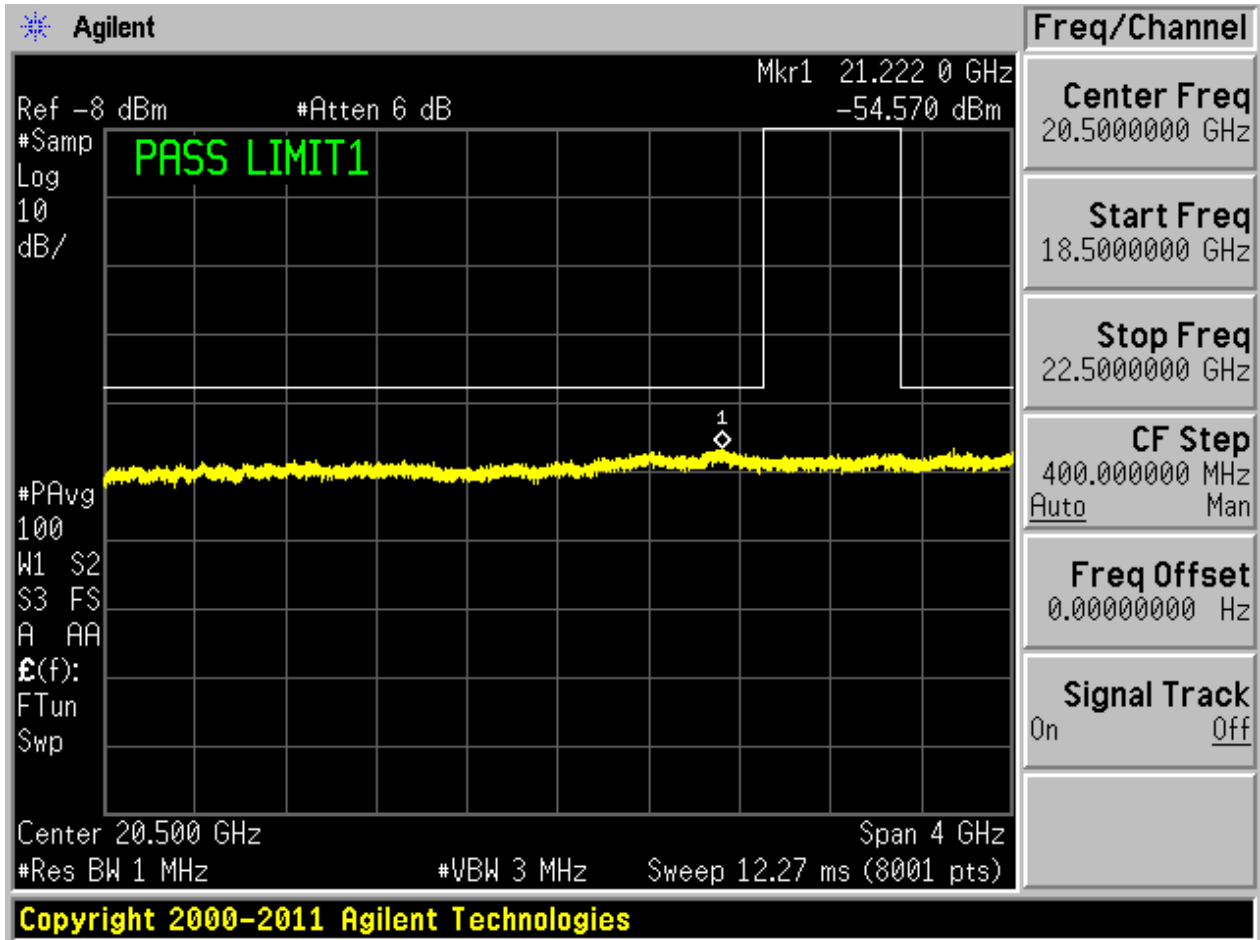


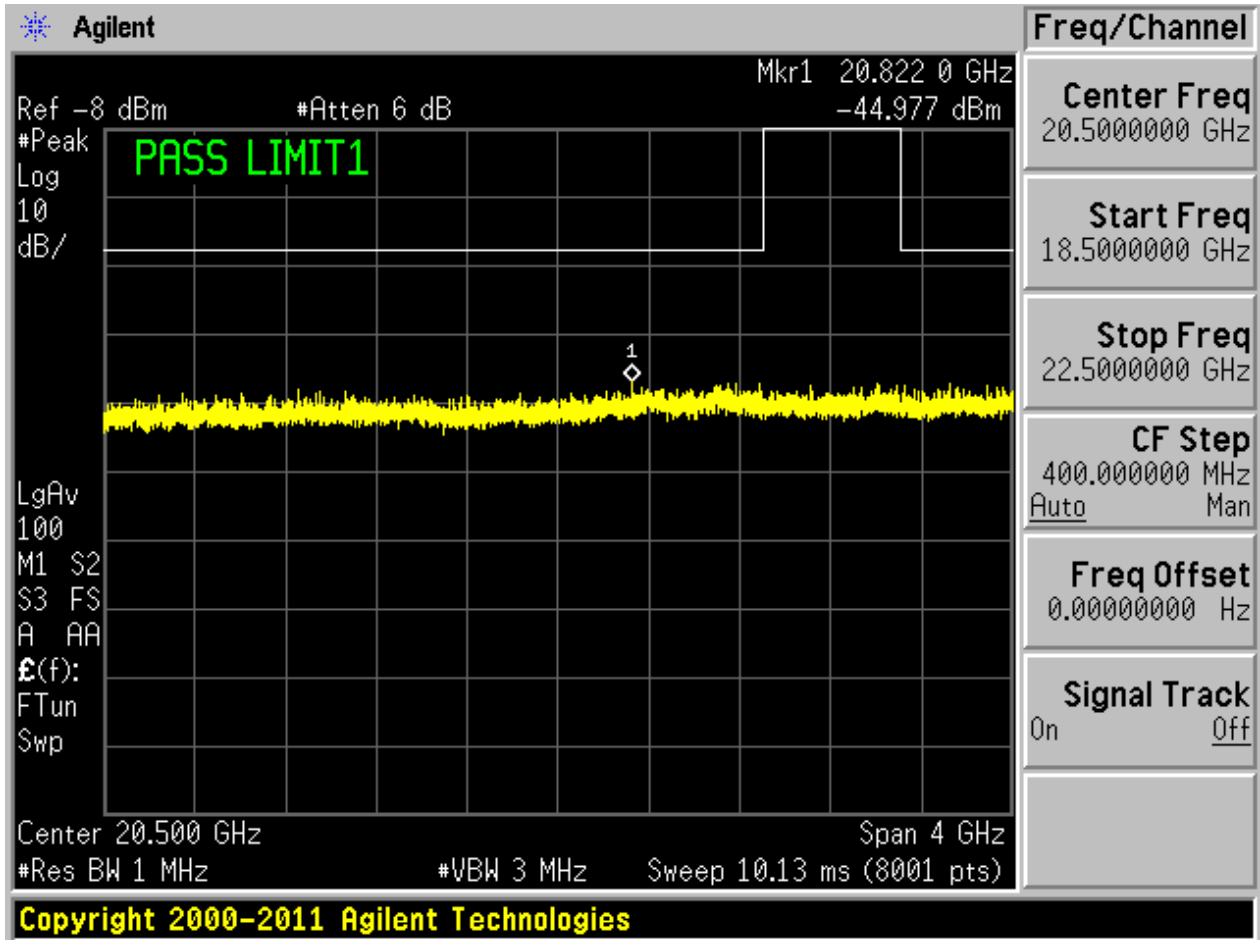


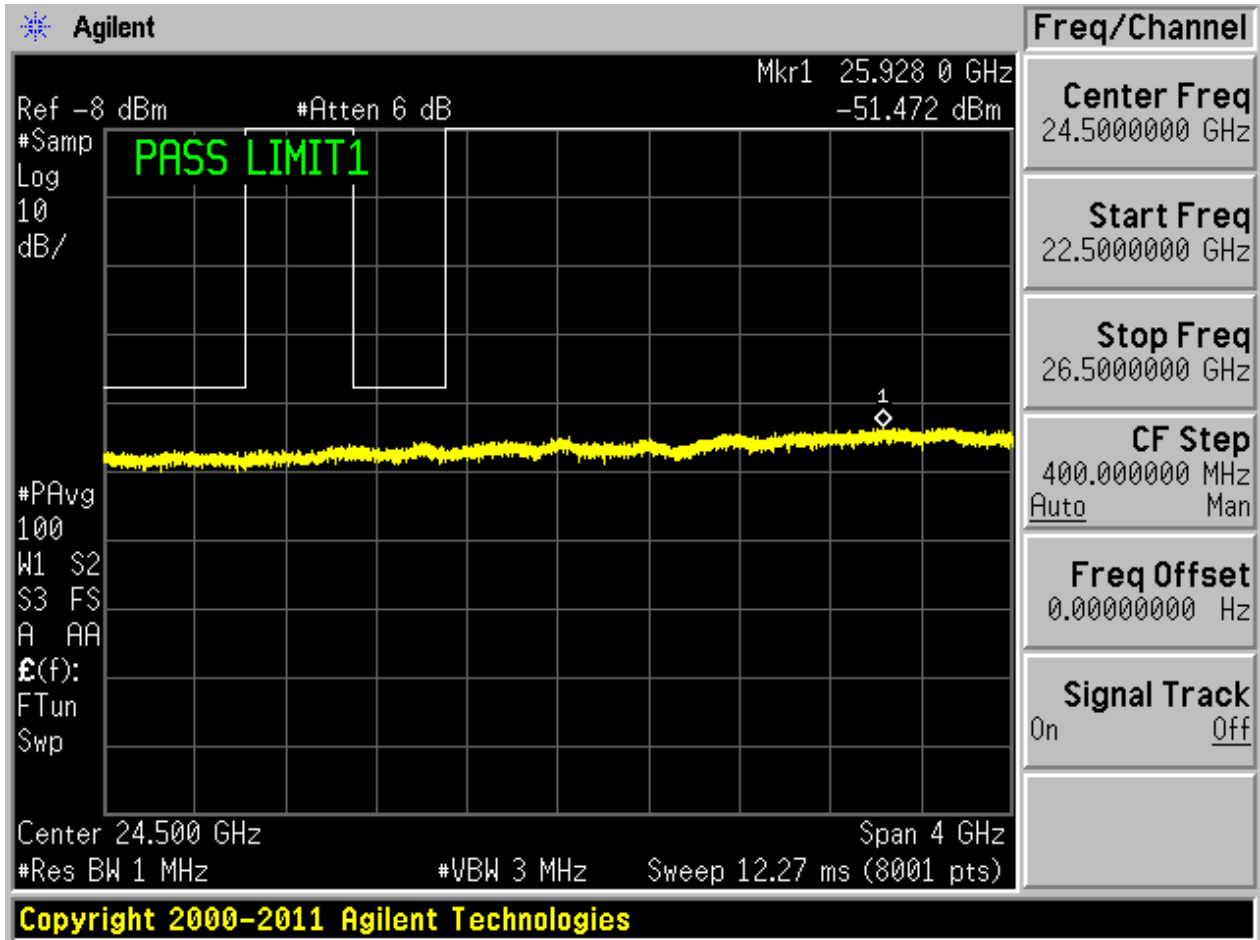


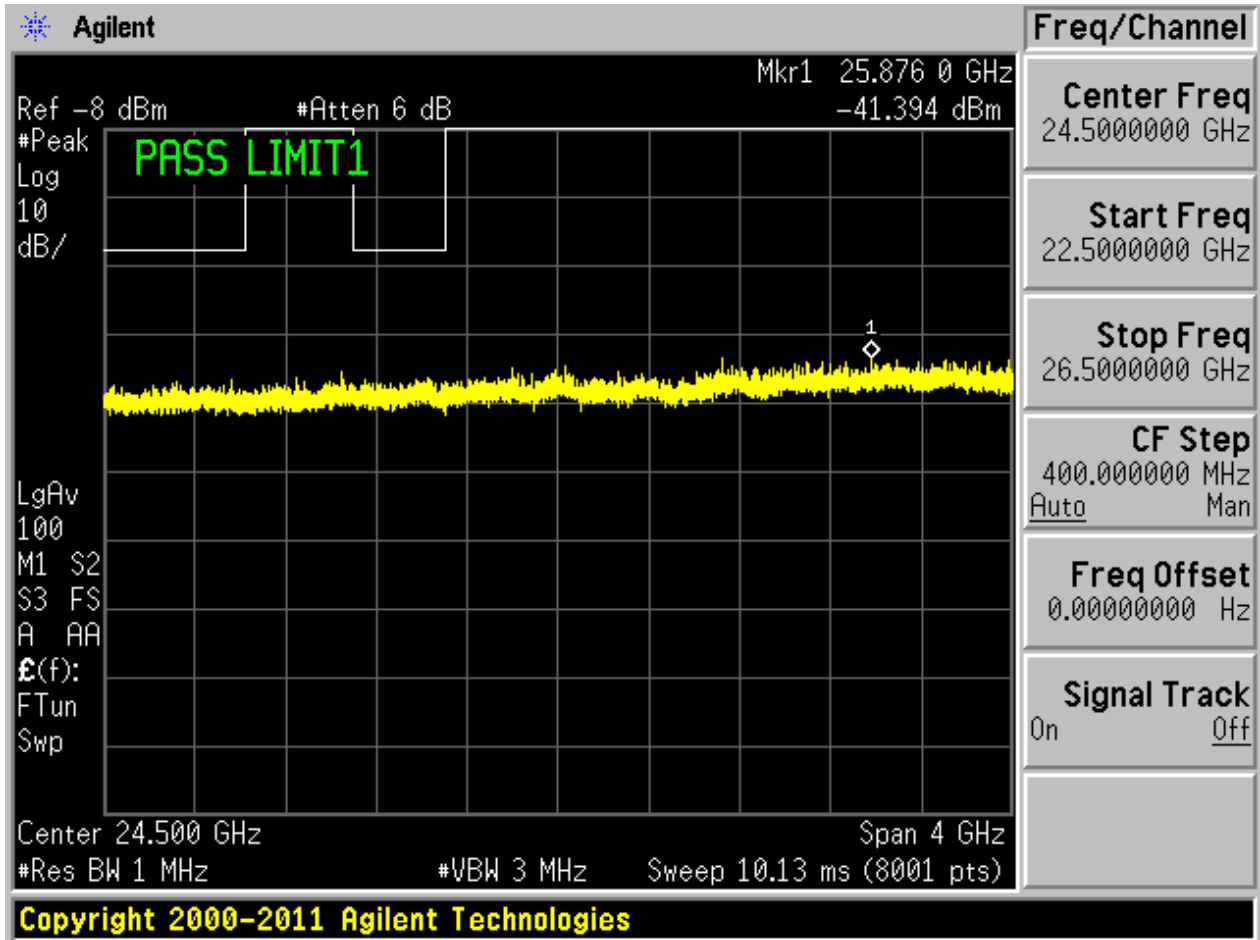






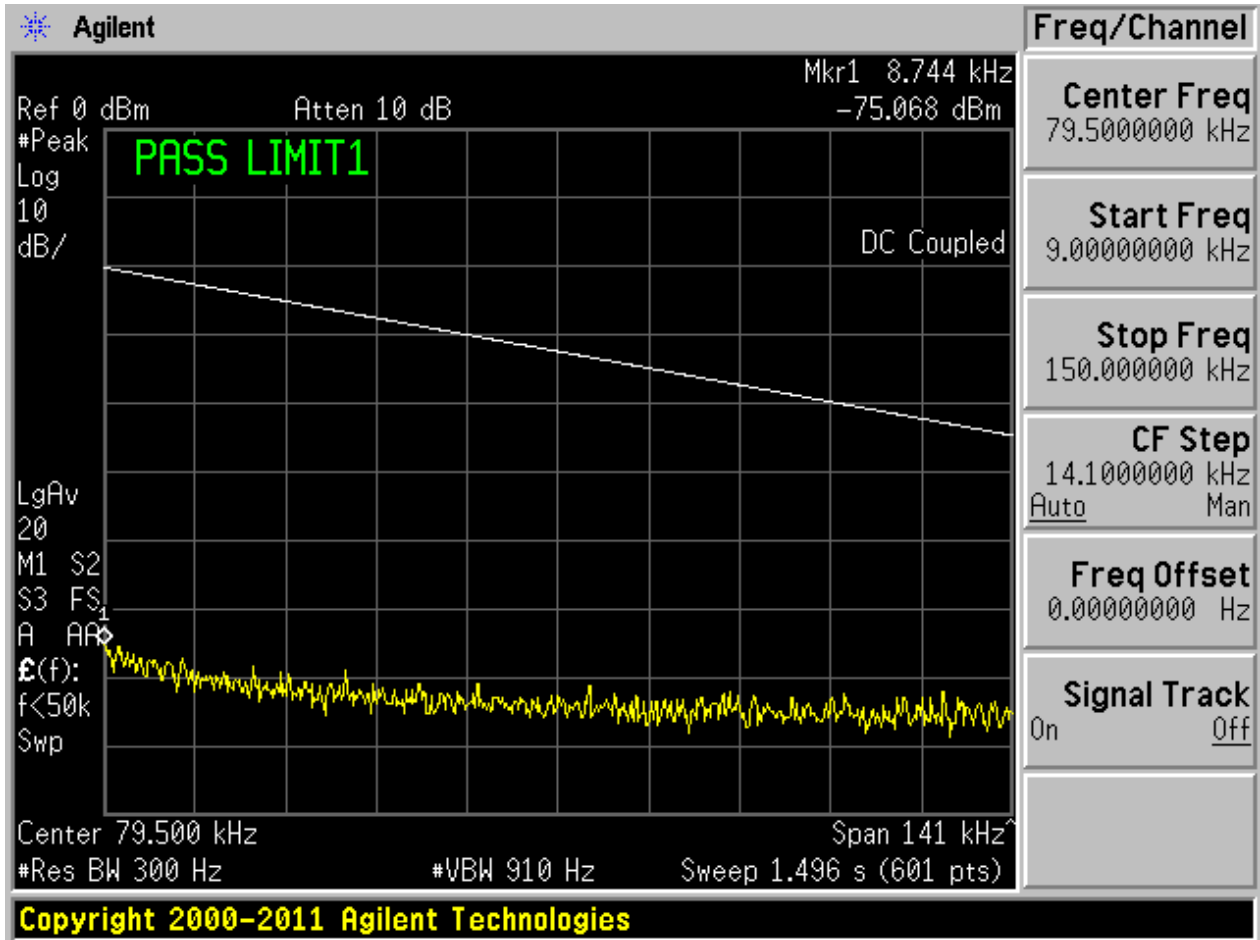


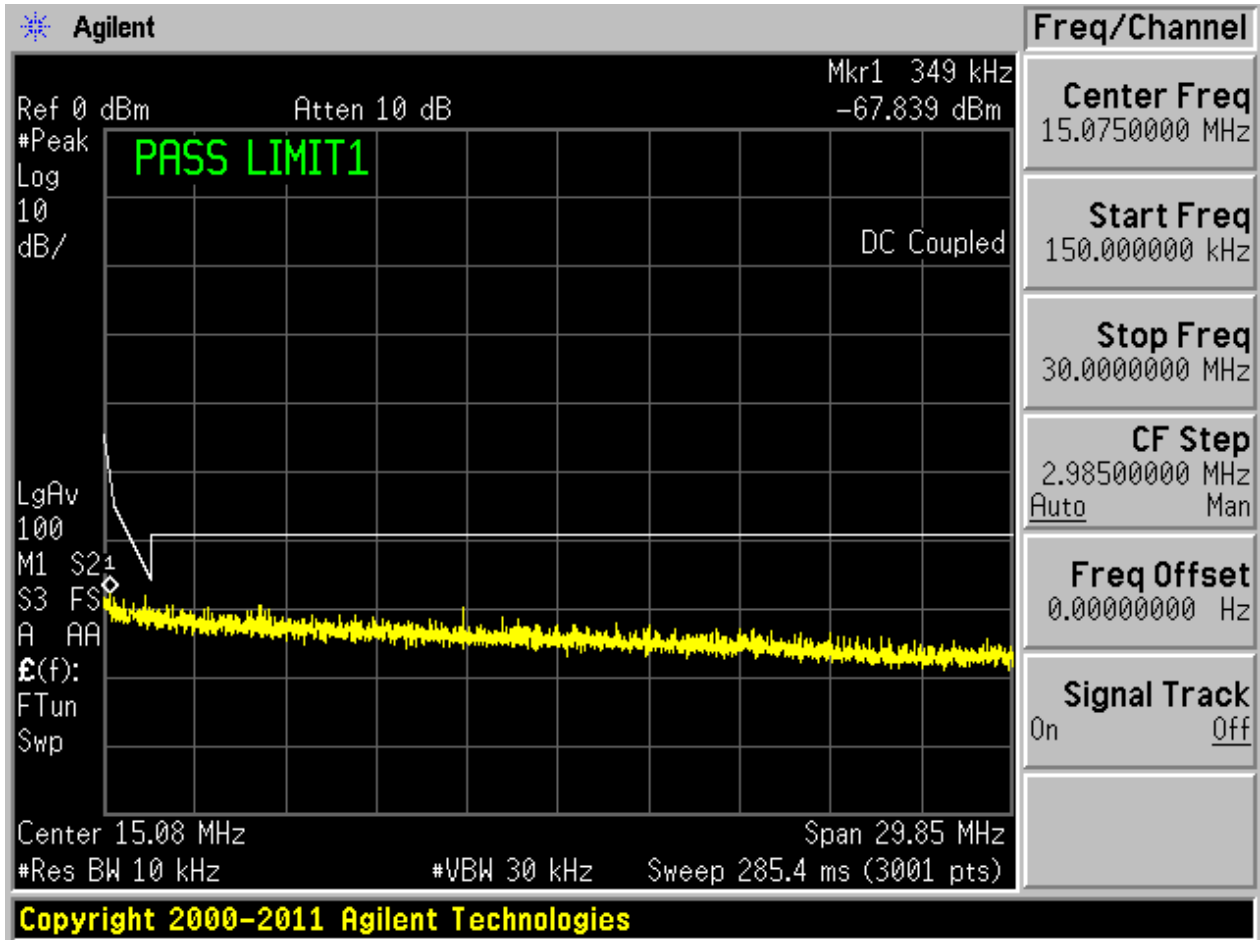


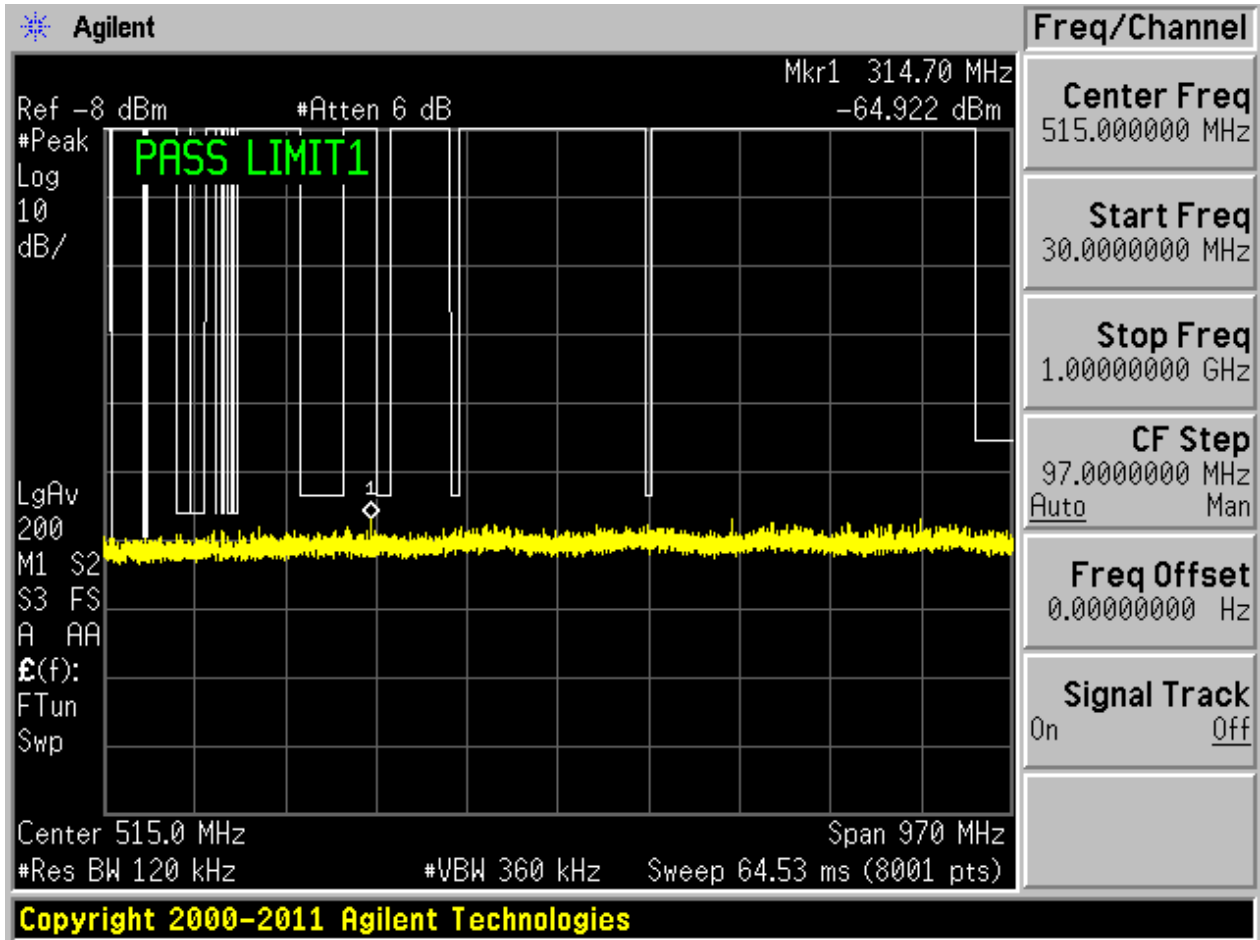


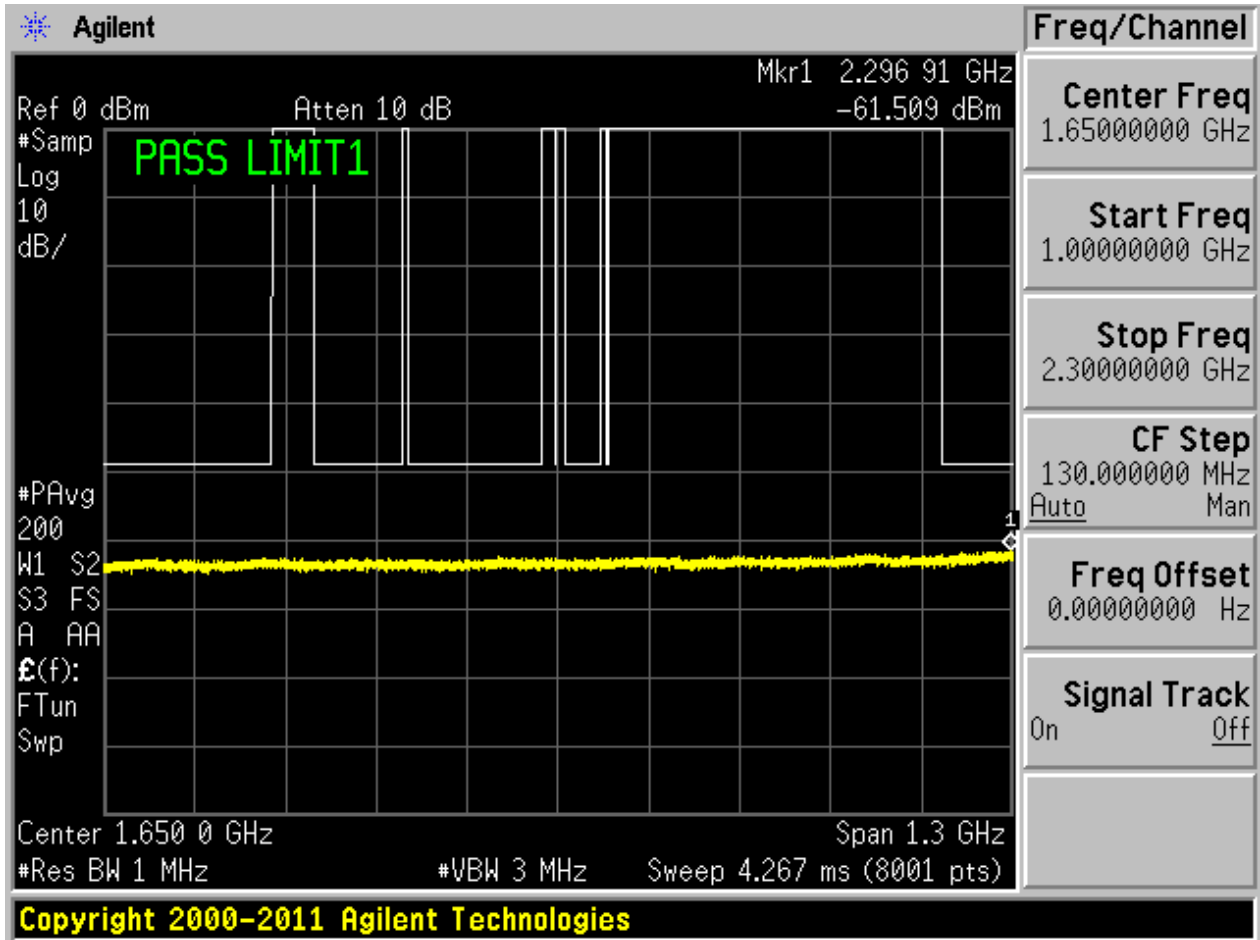
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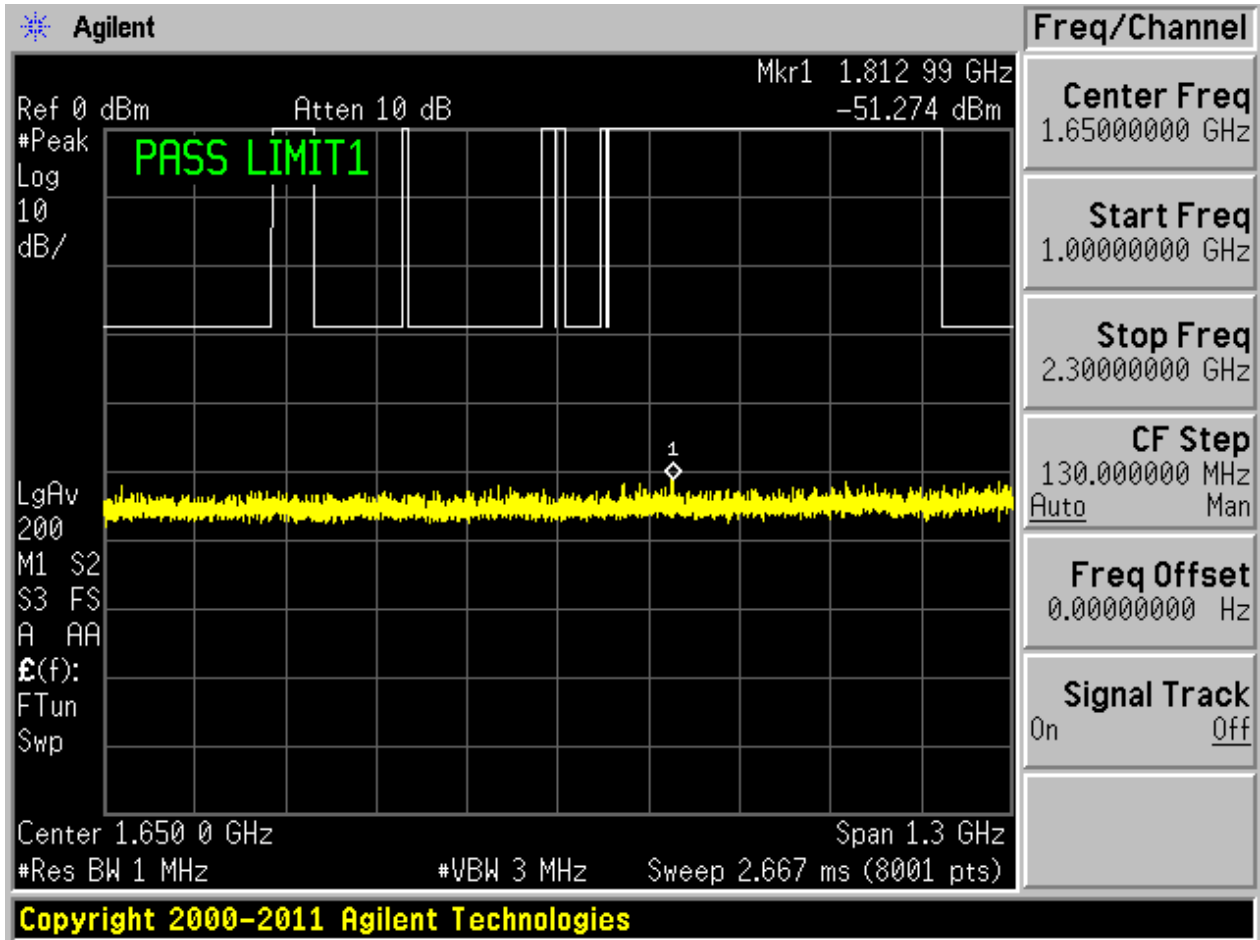
2.16.1 Ant 1 (Trace#1)

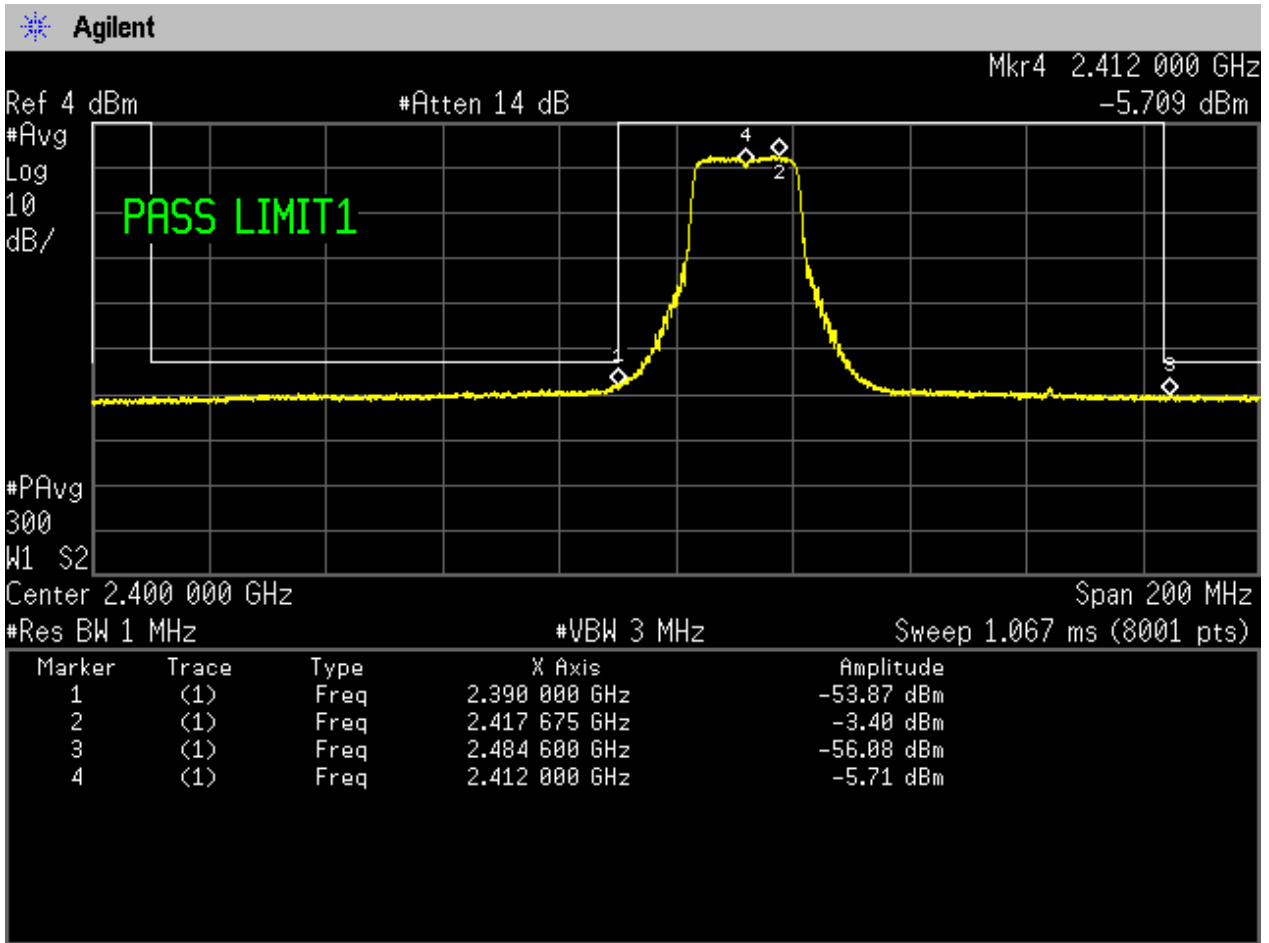


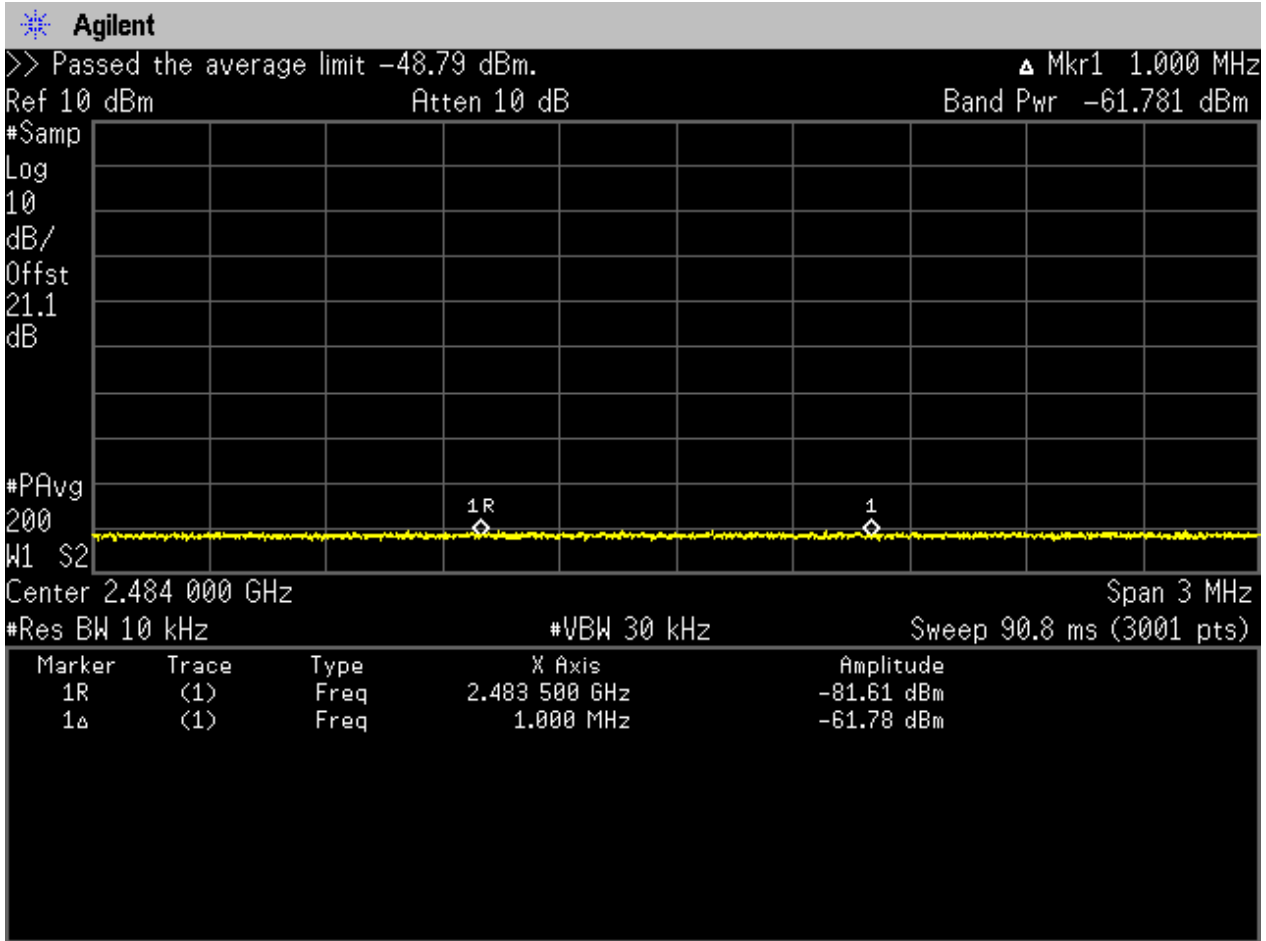


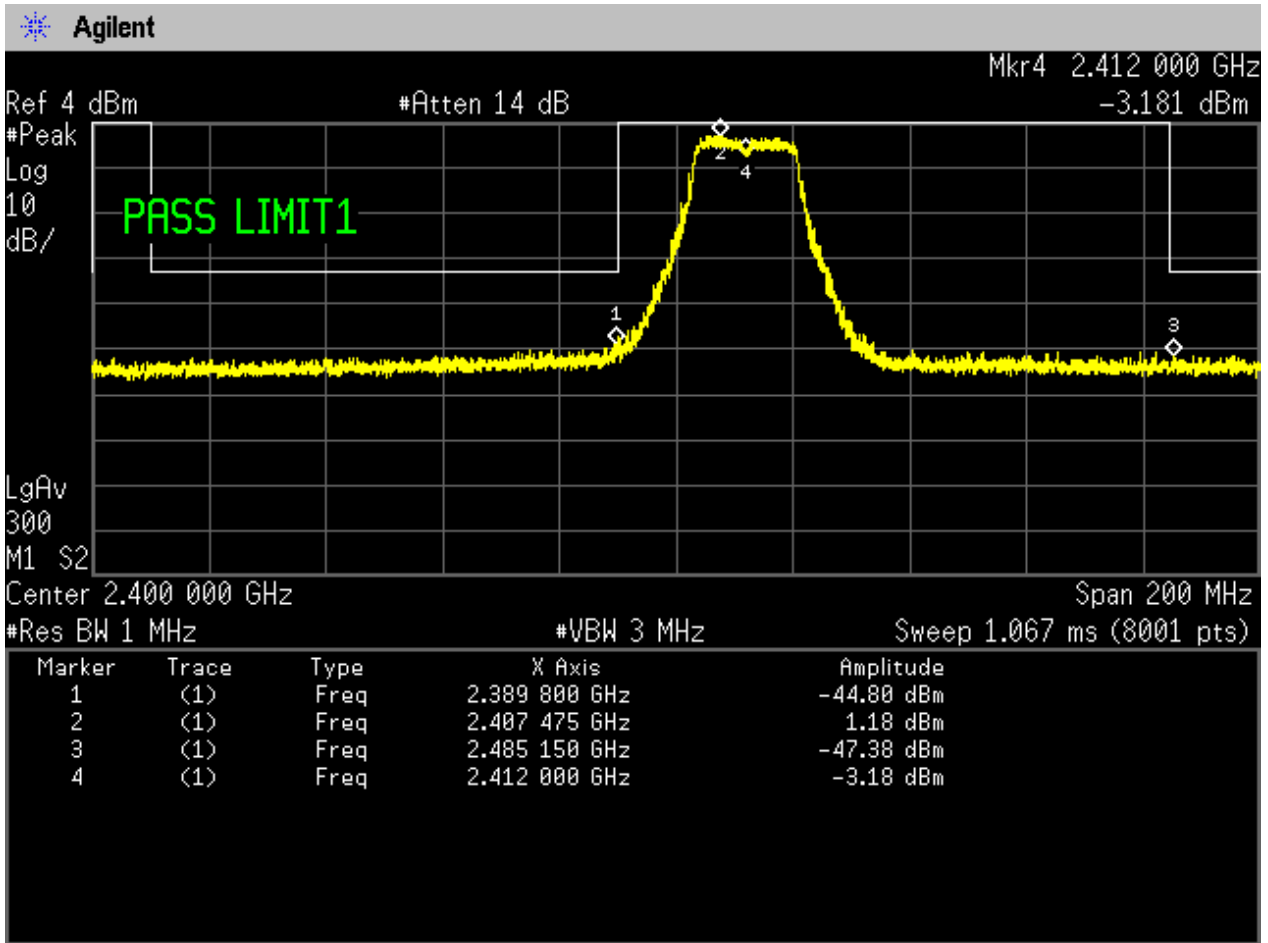


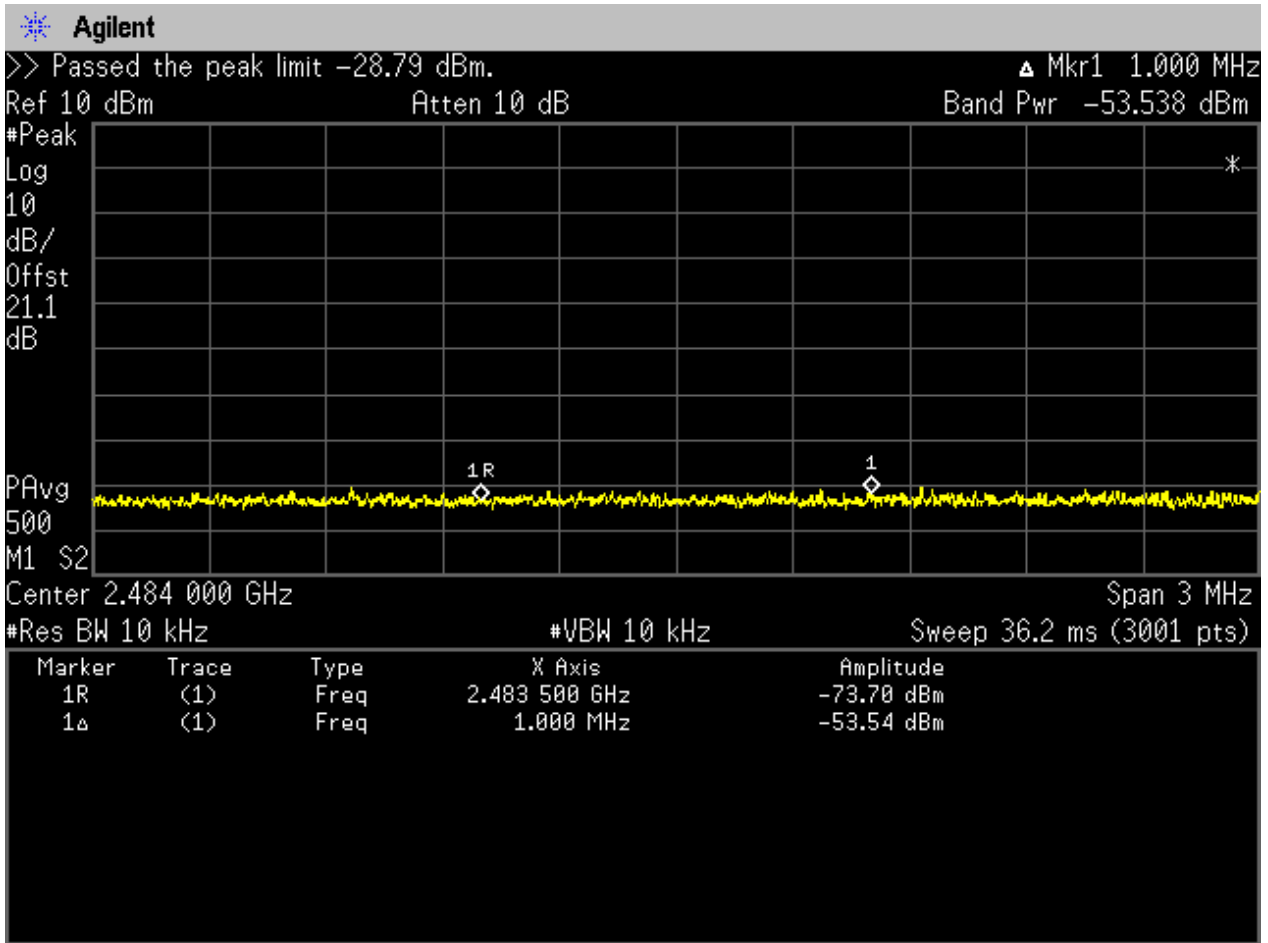


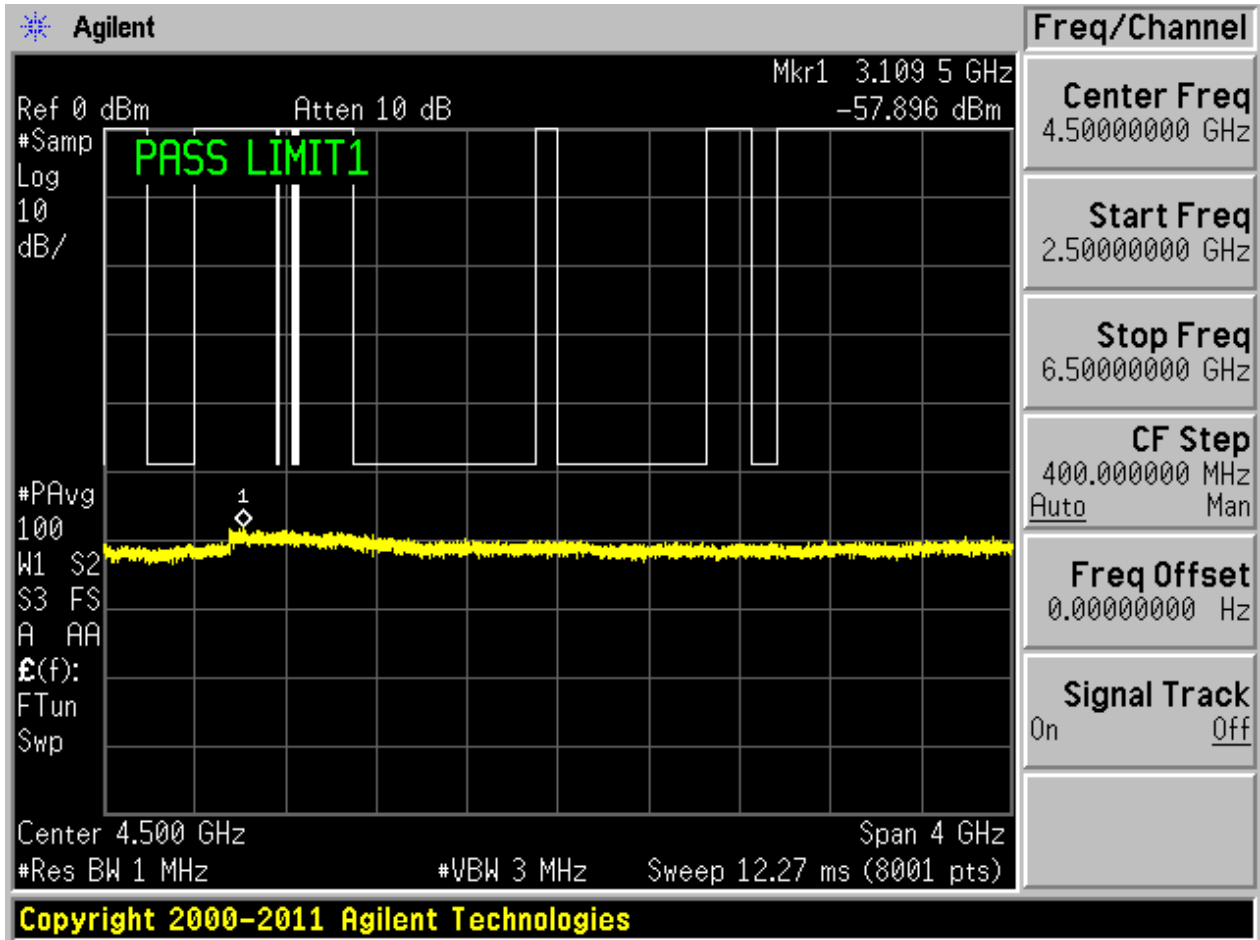


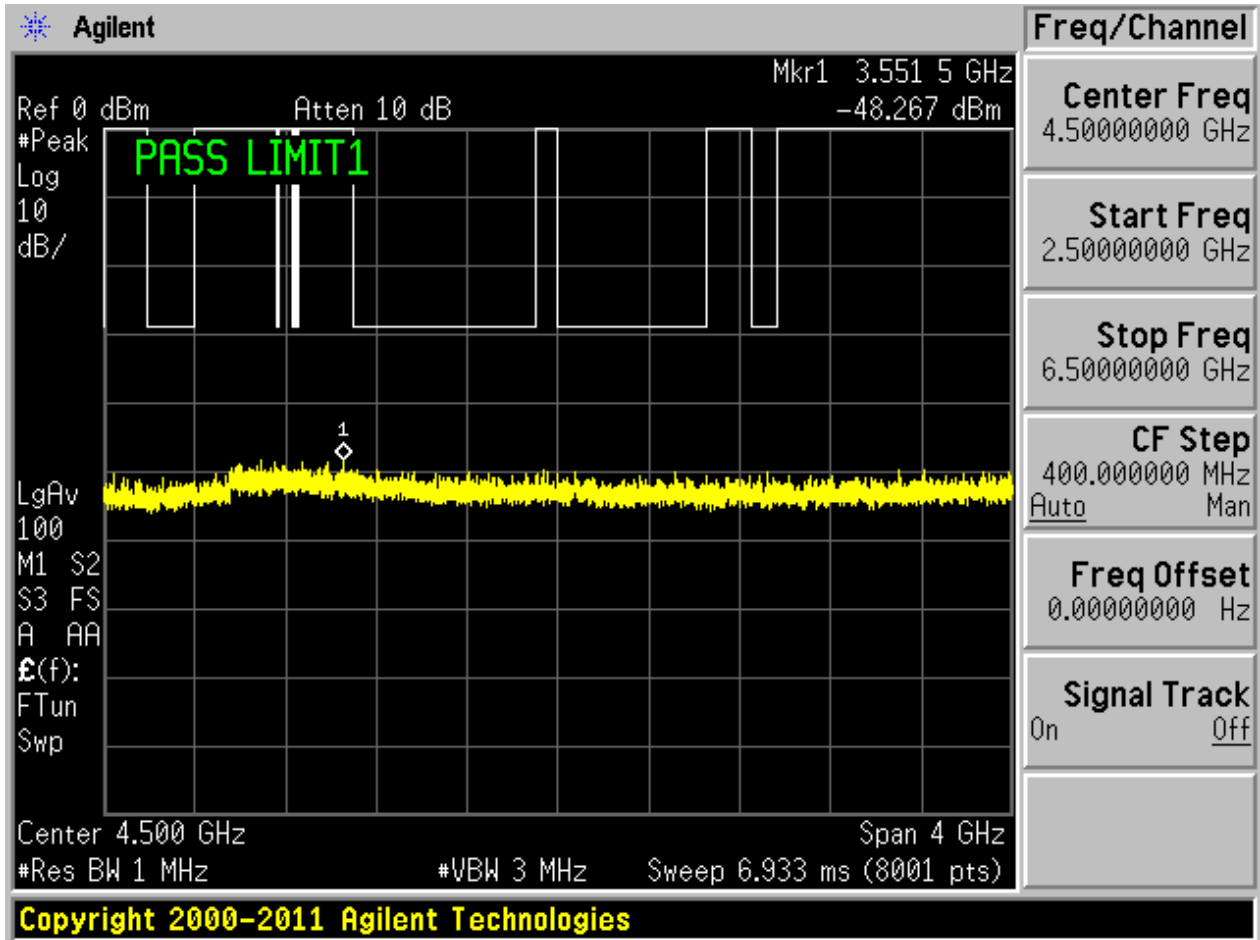


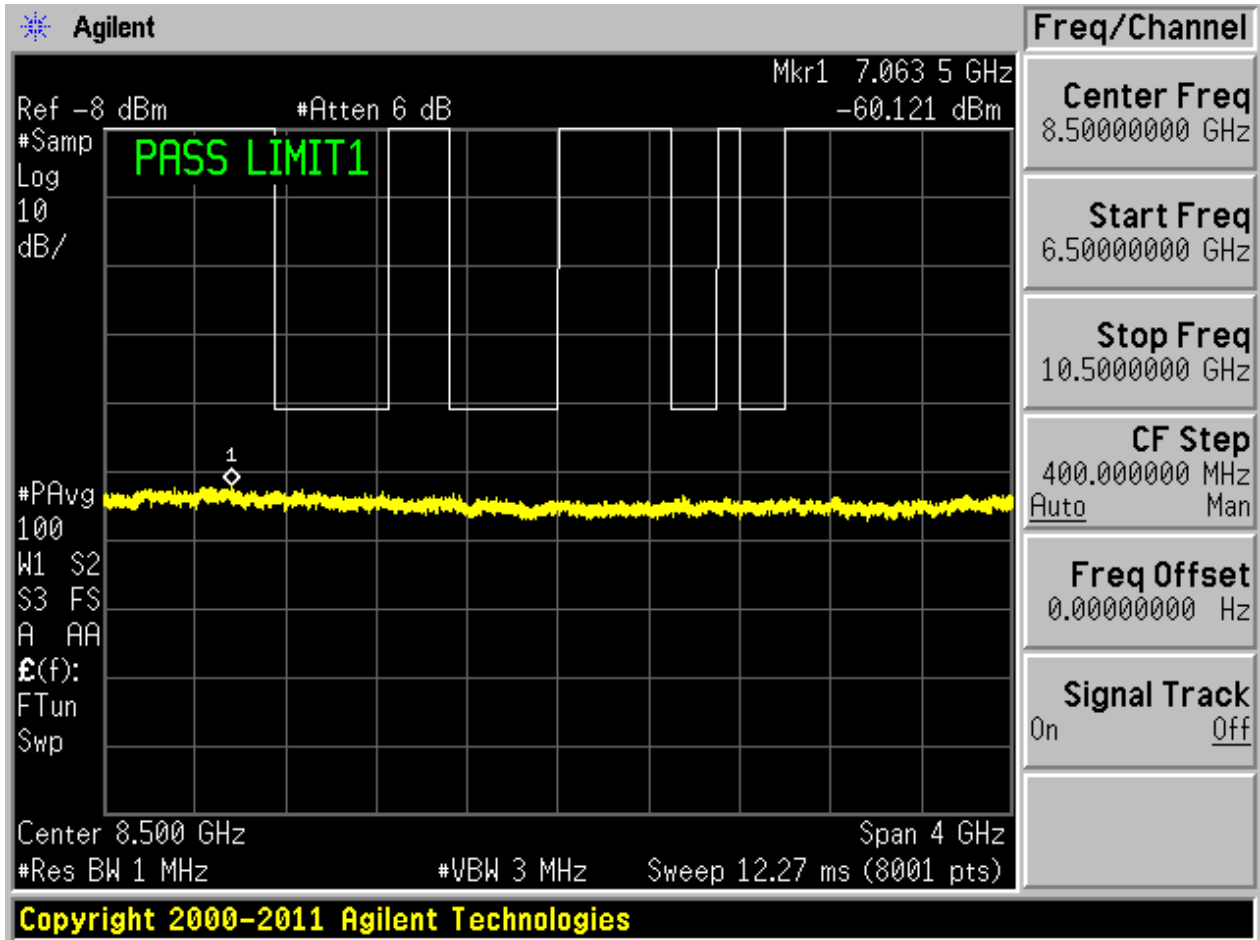


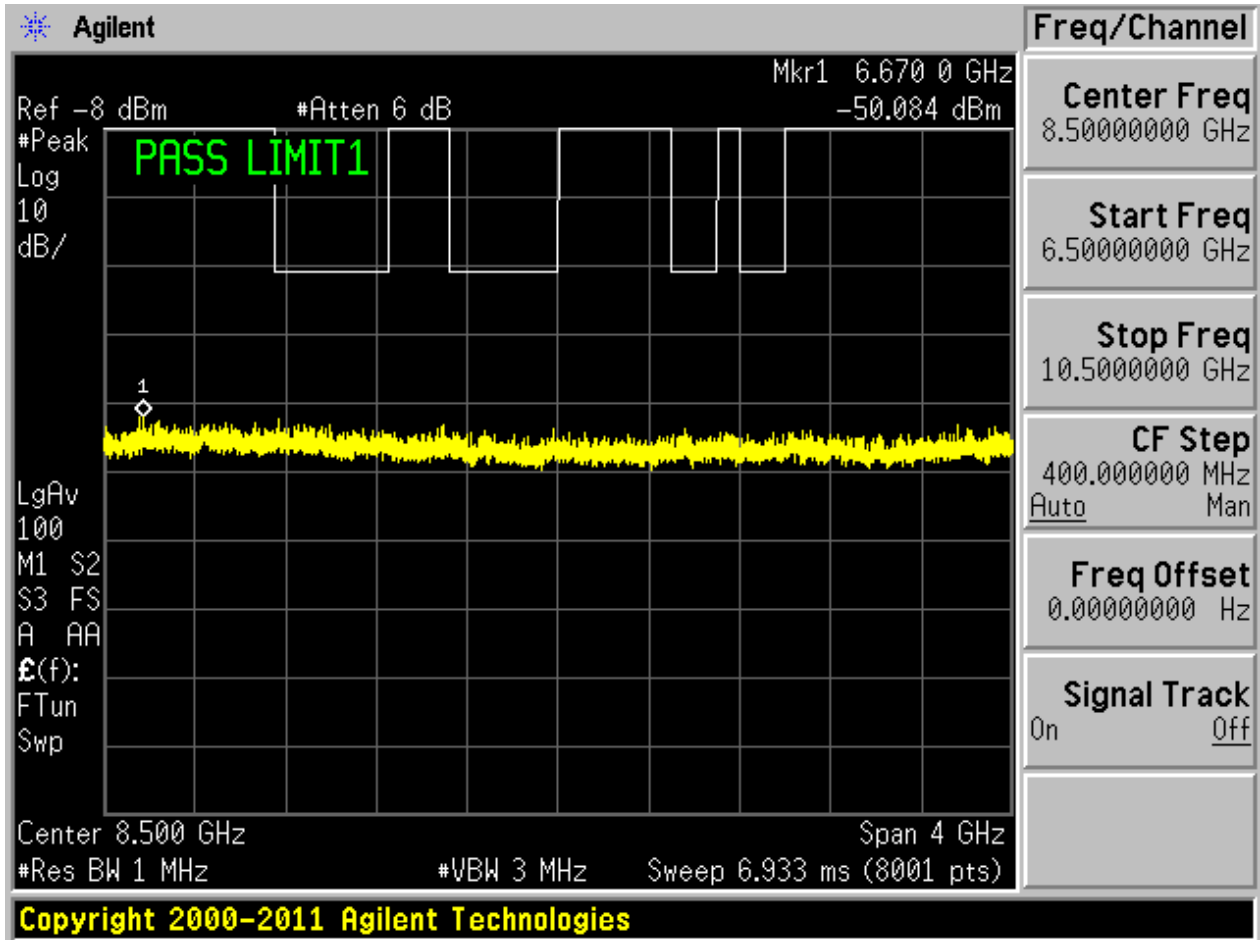


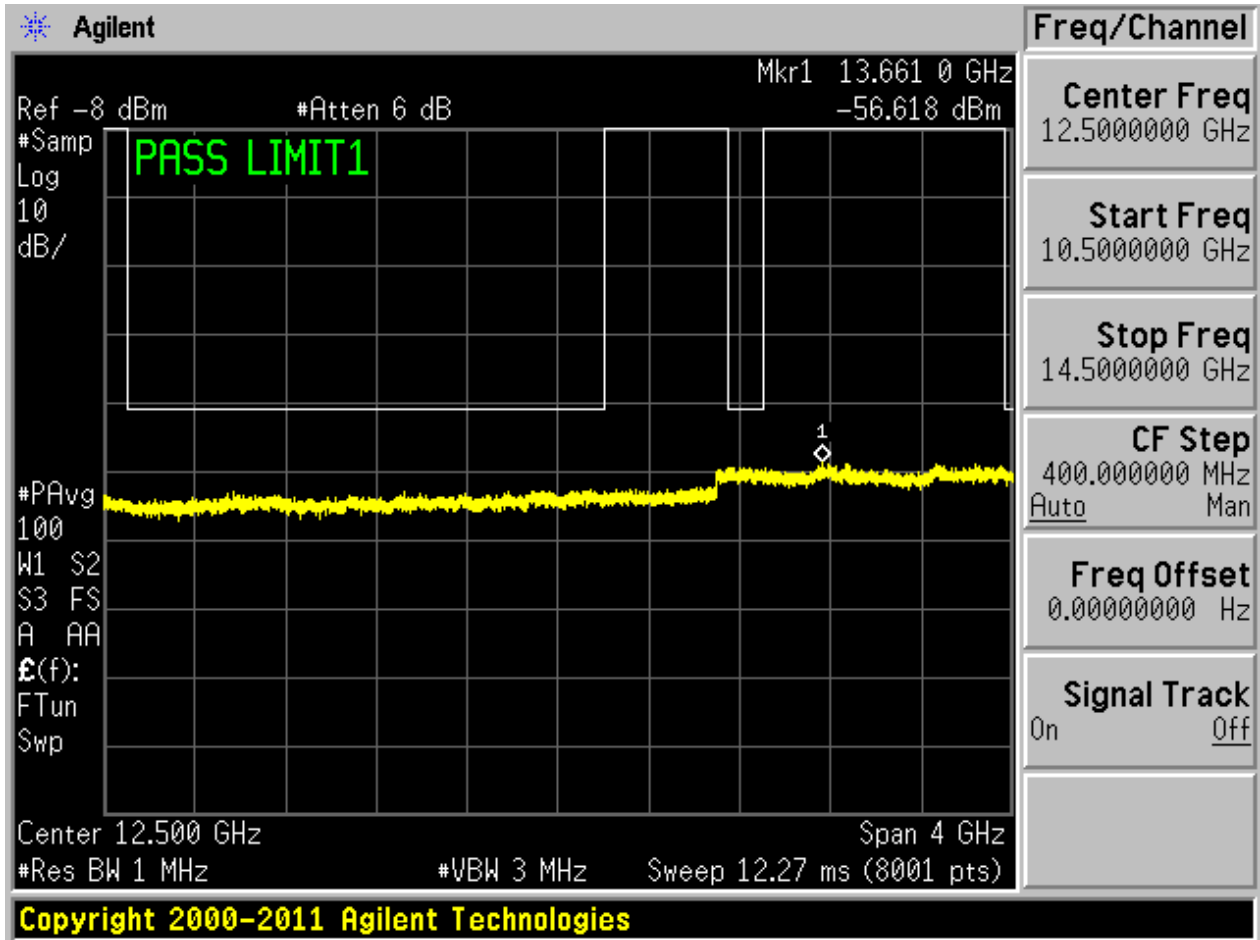


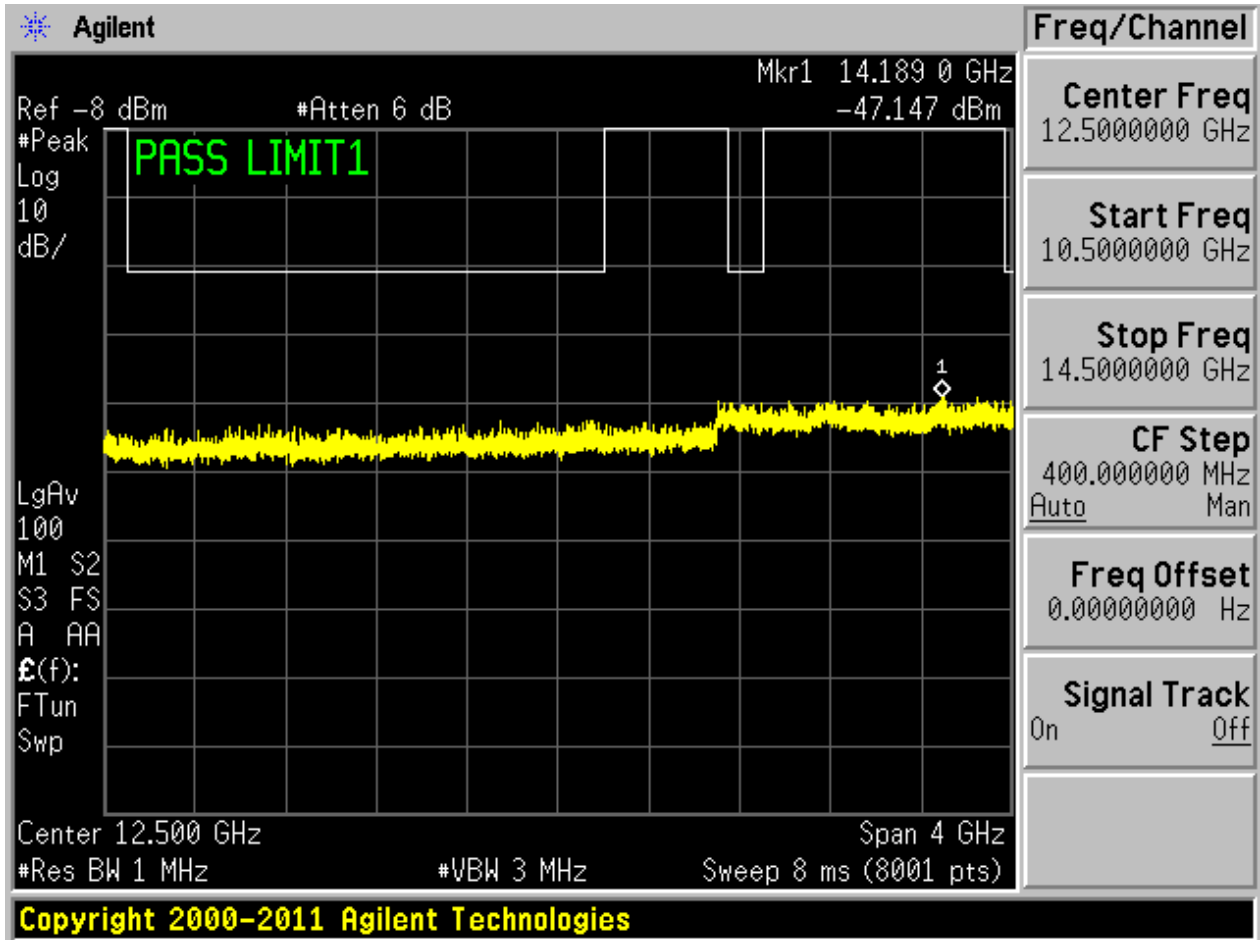


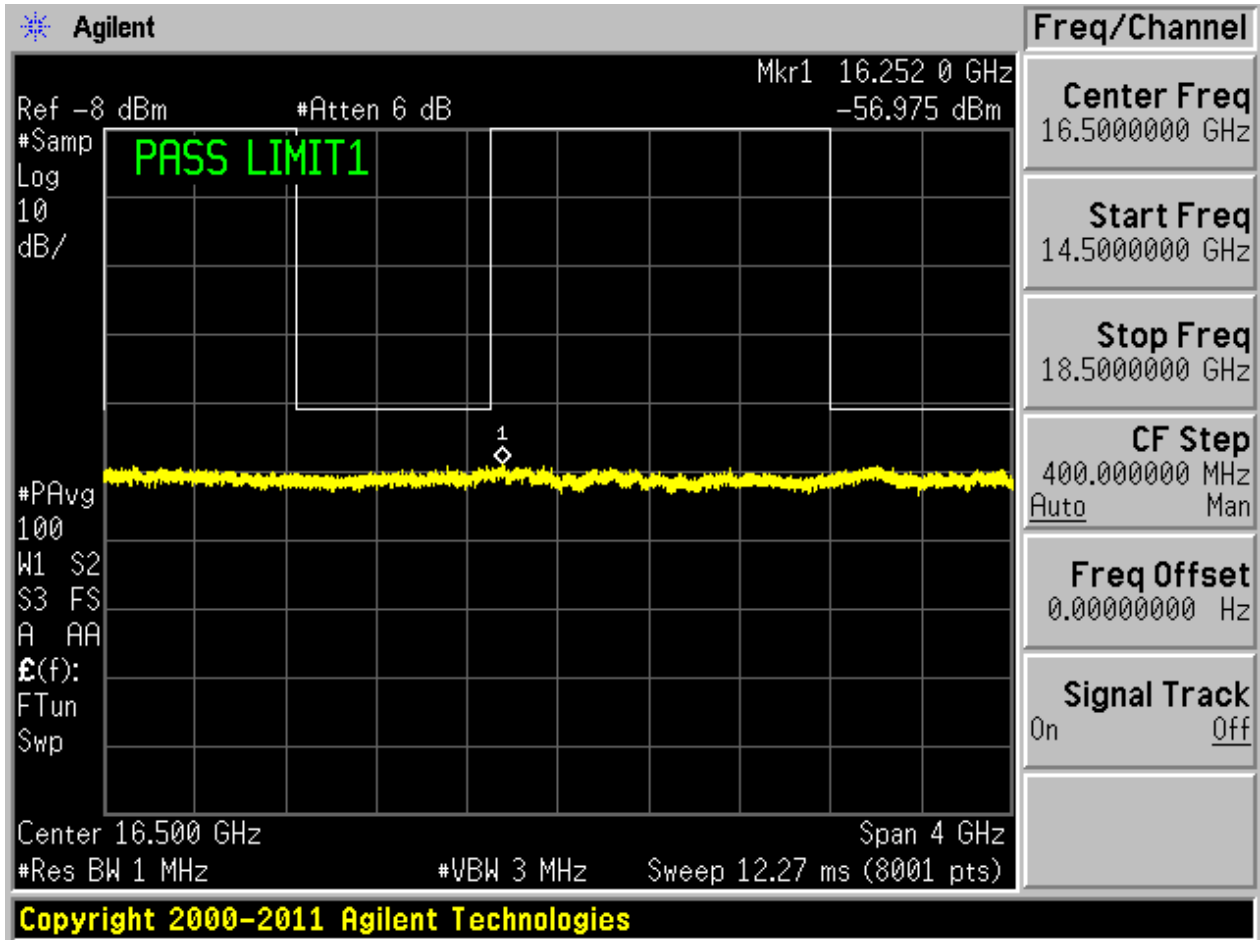


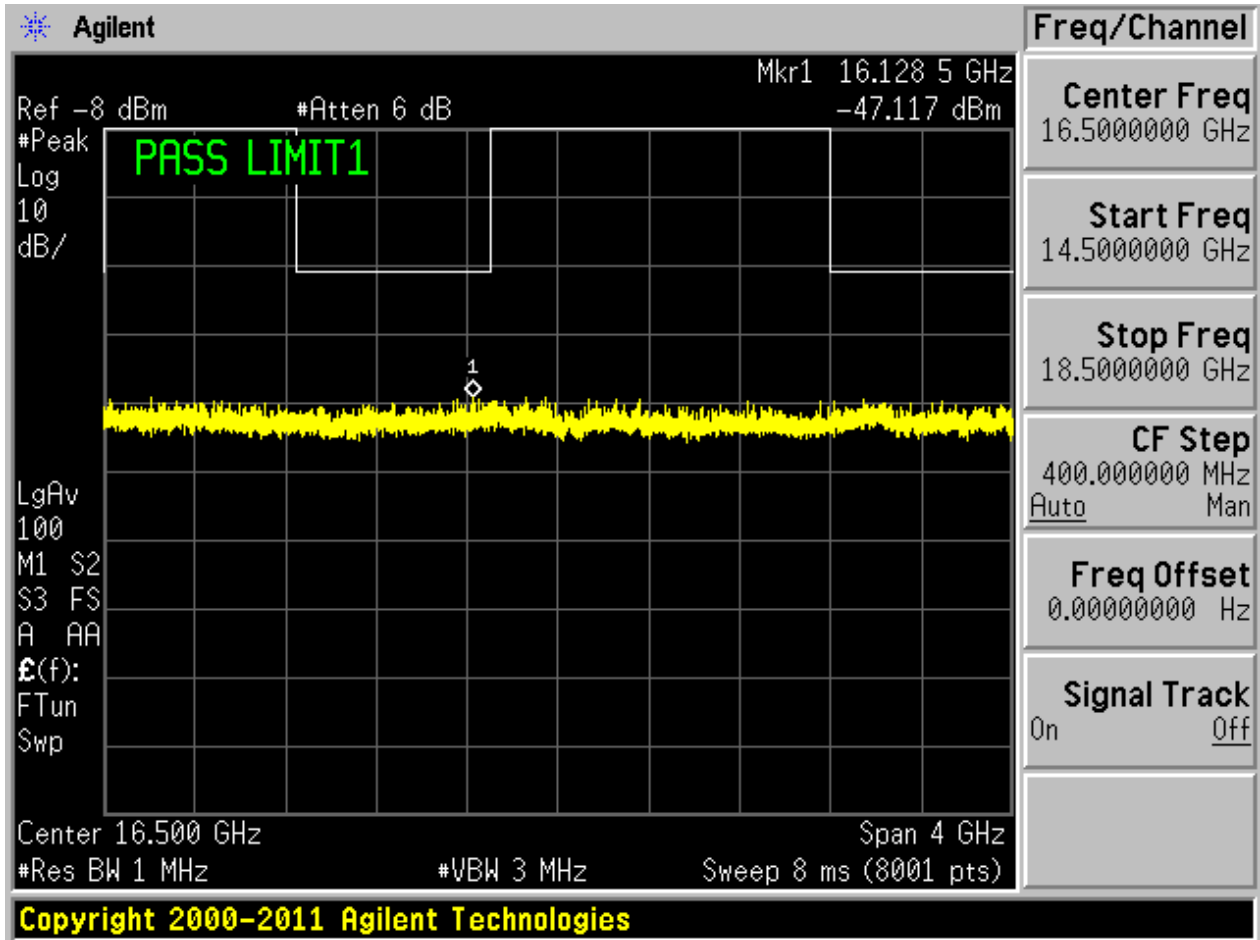


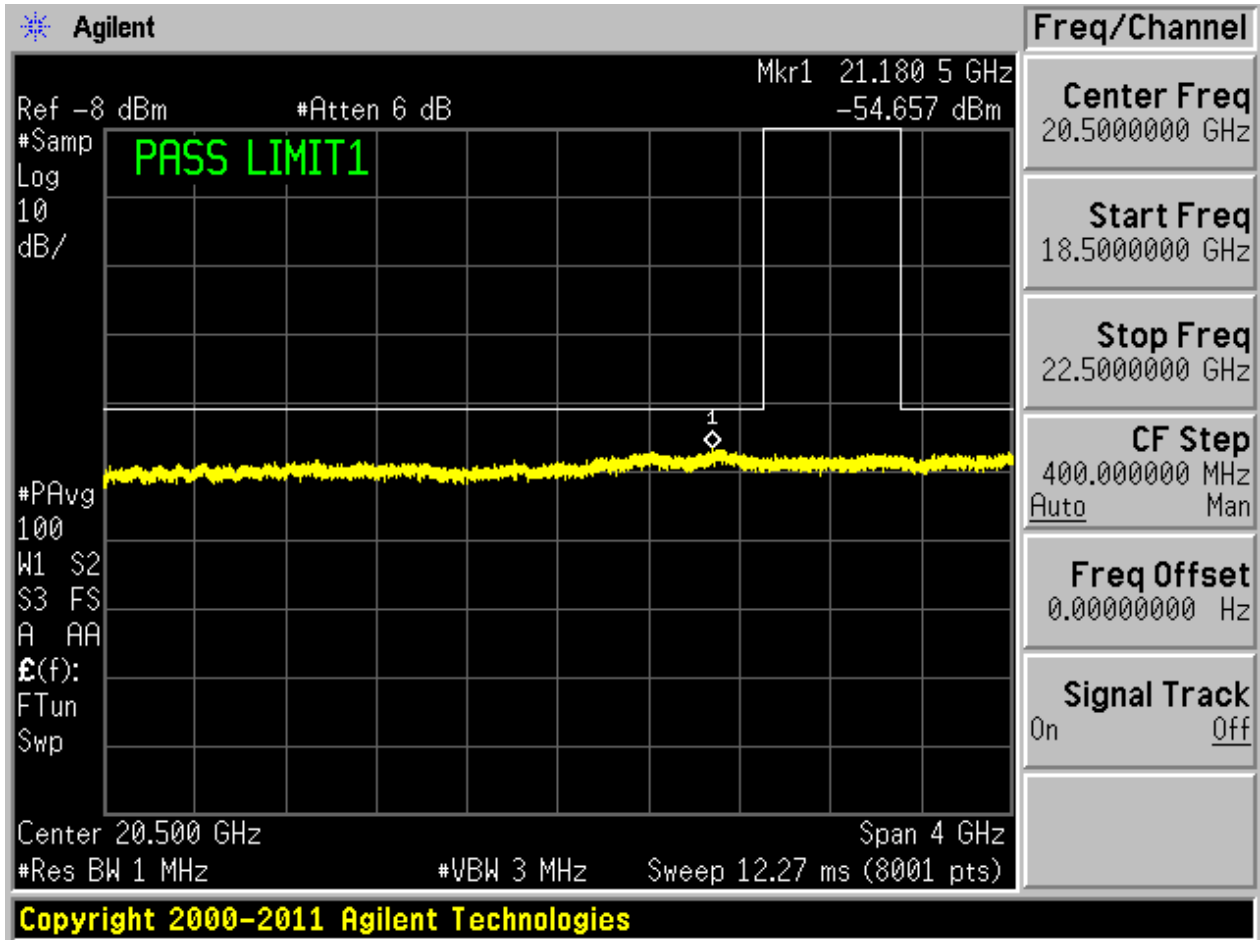


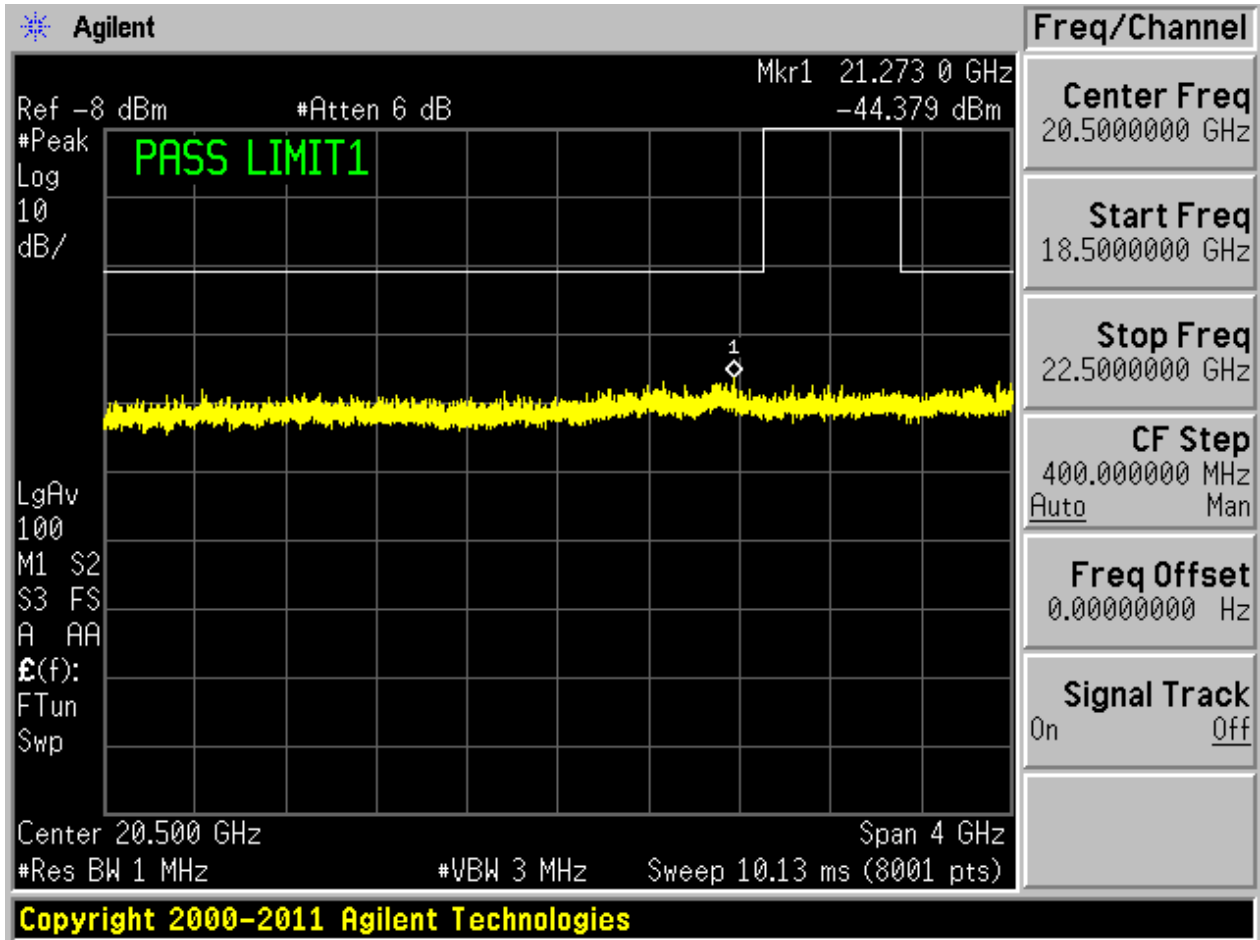




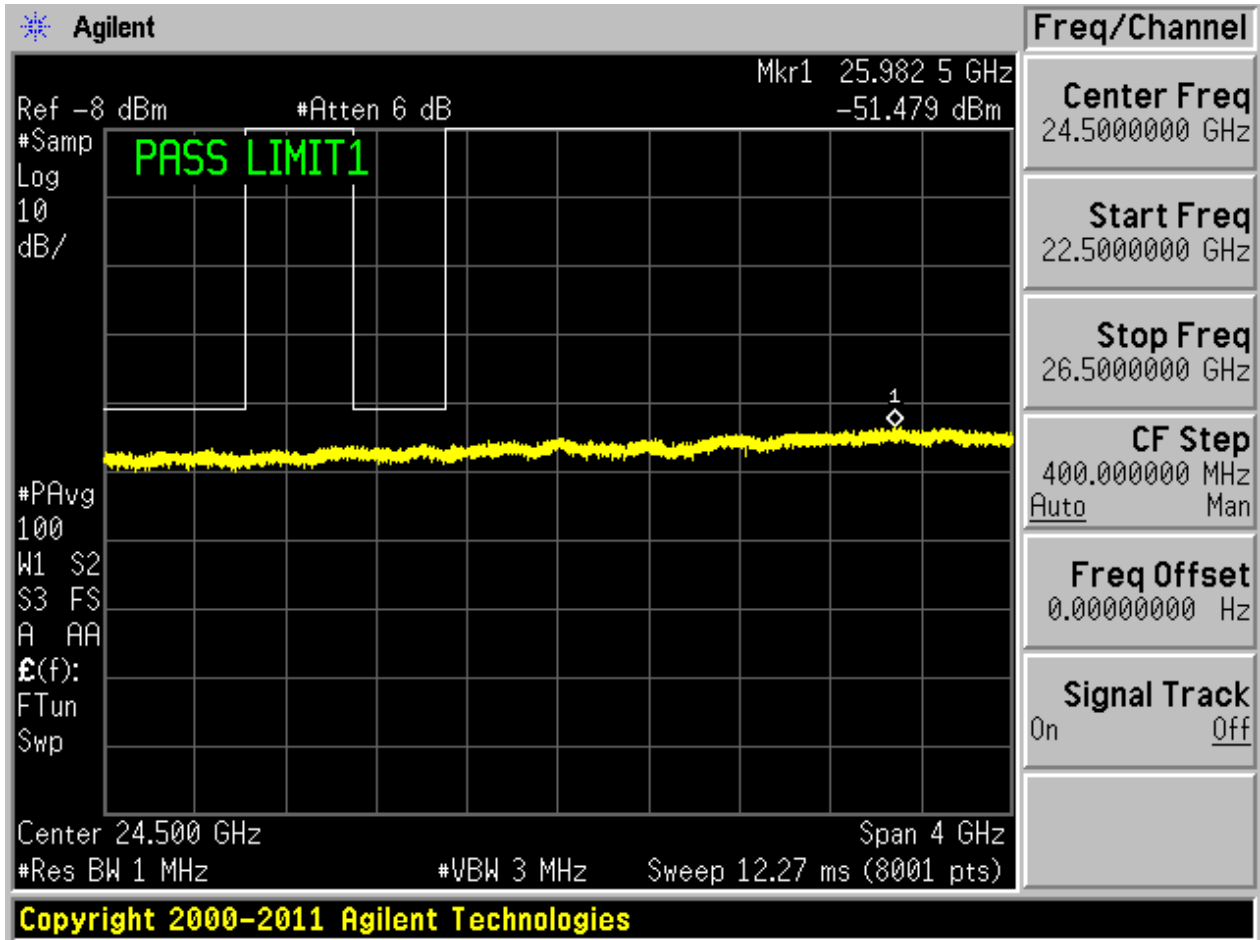


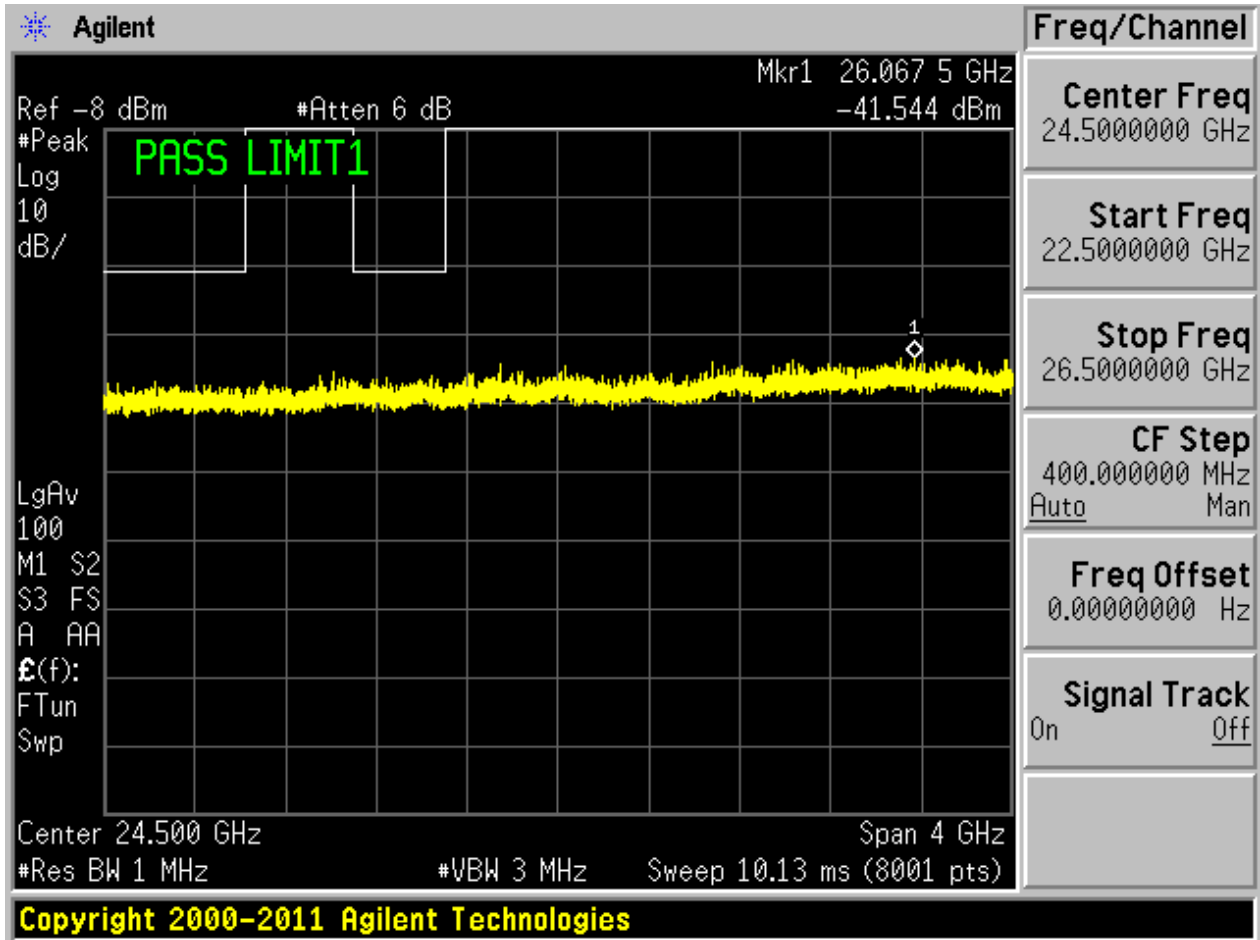




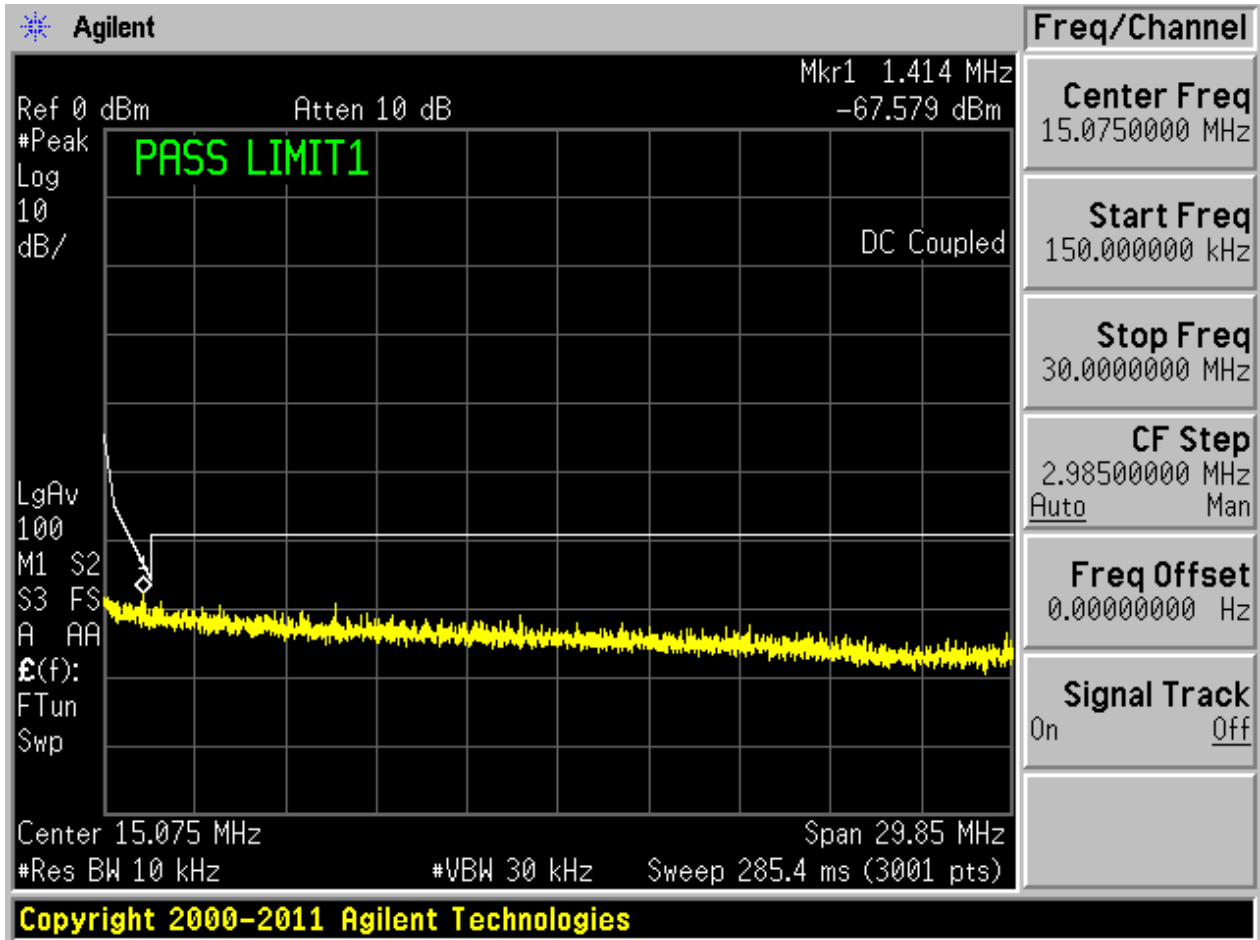


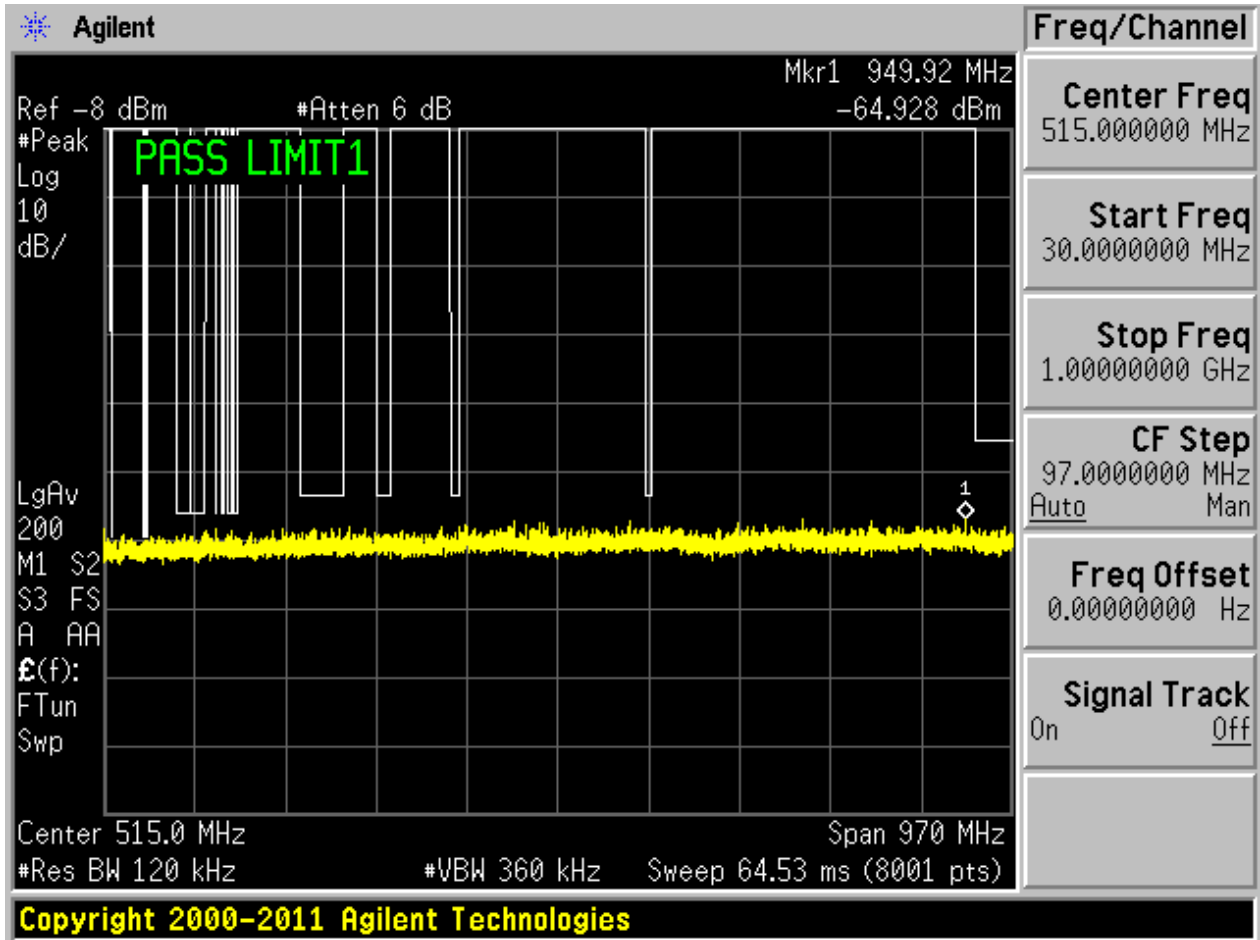
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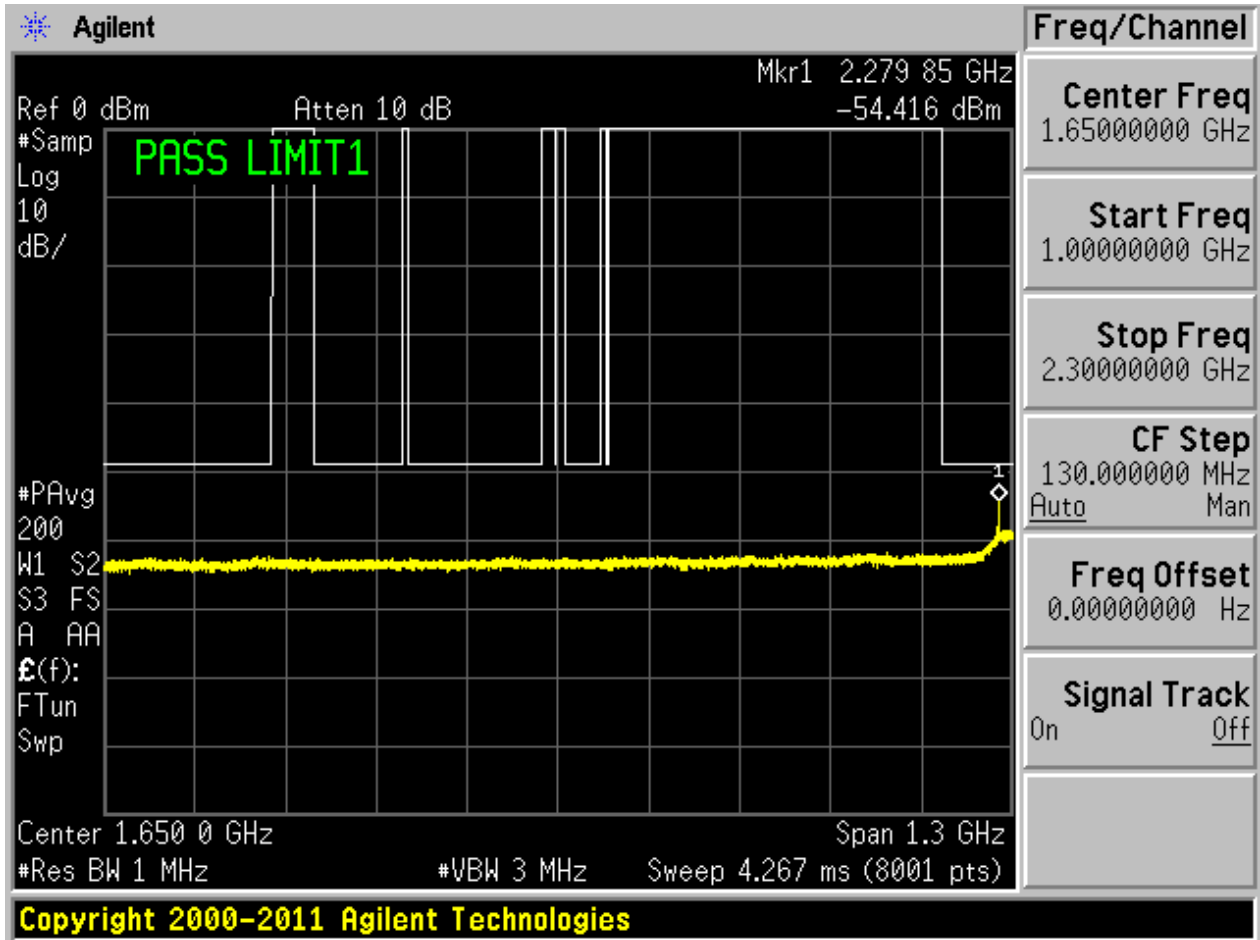


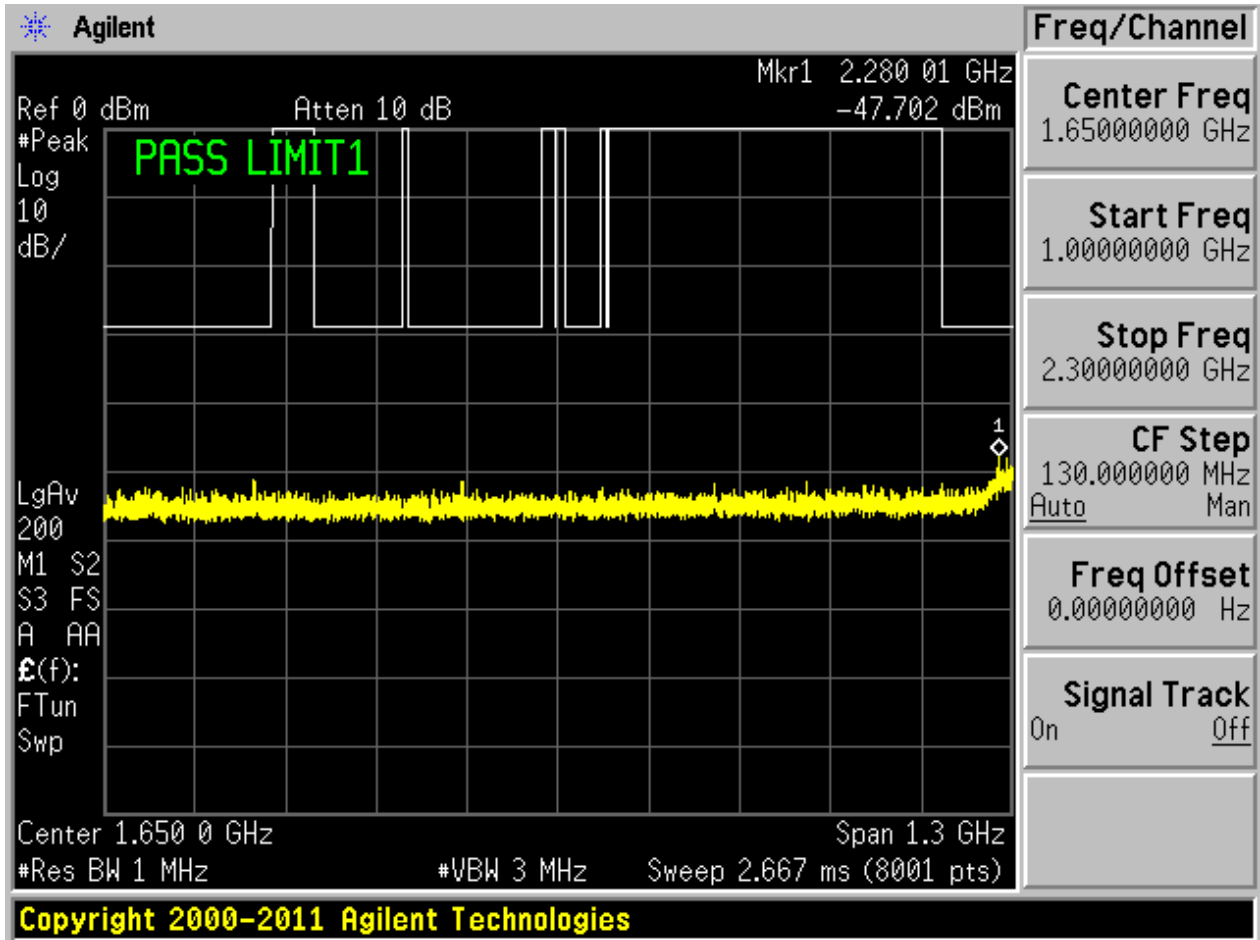


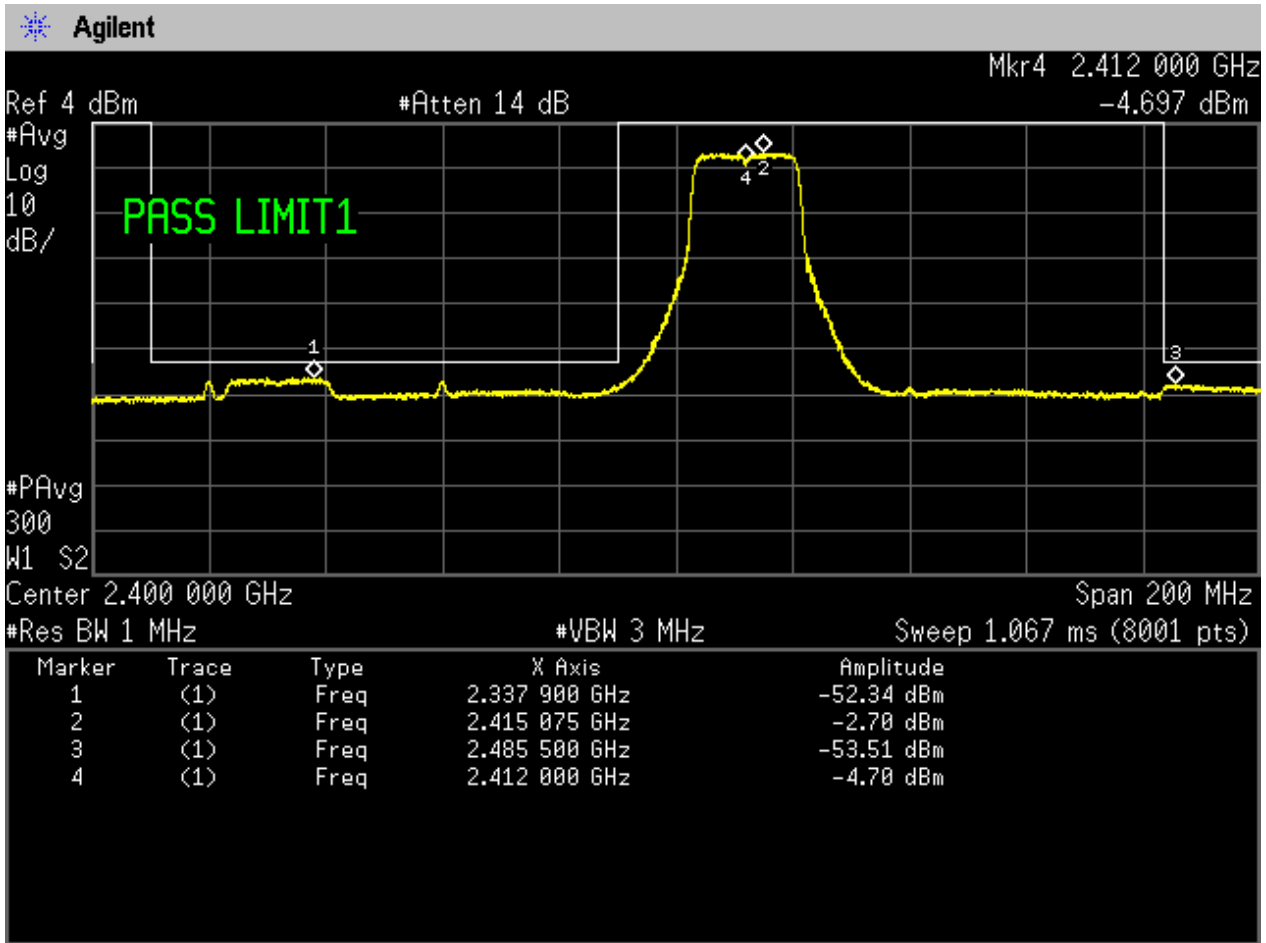
2.16.2 Ant 2 (Trace#2)

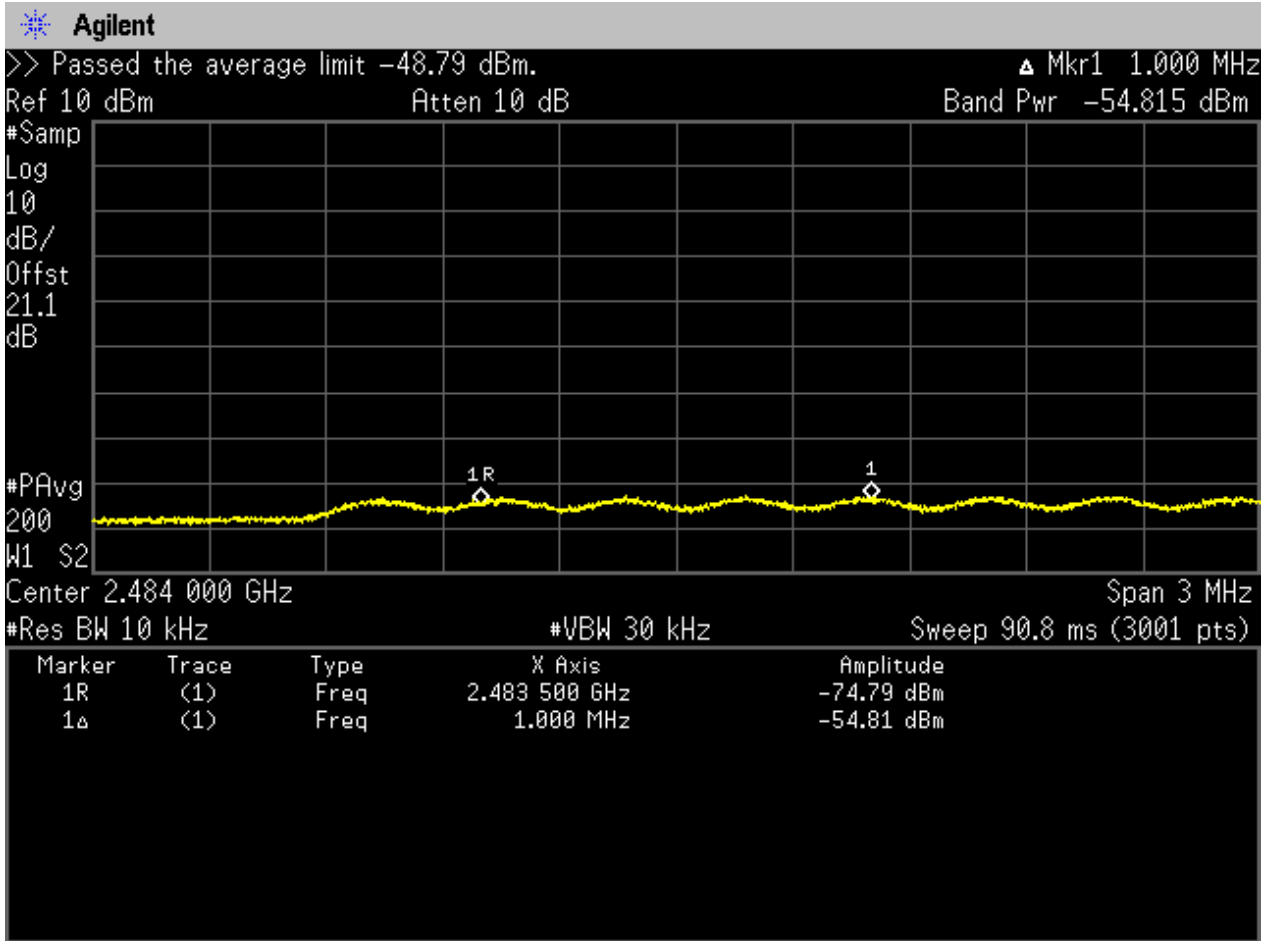


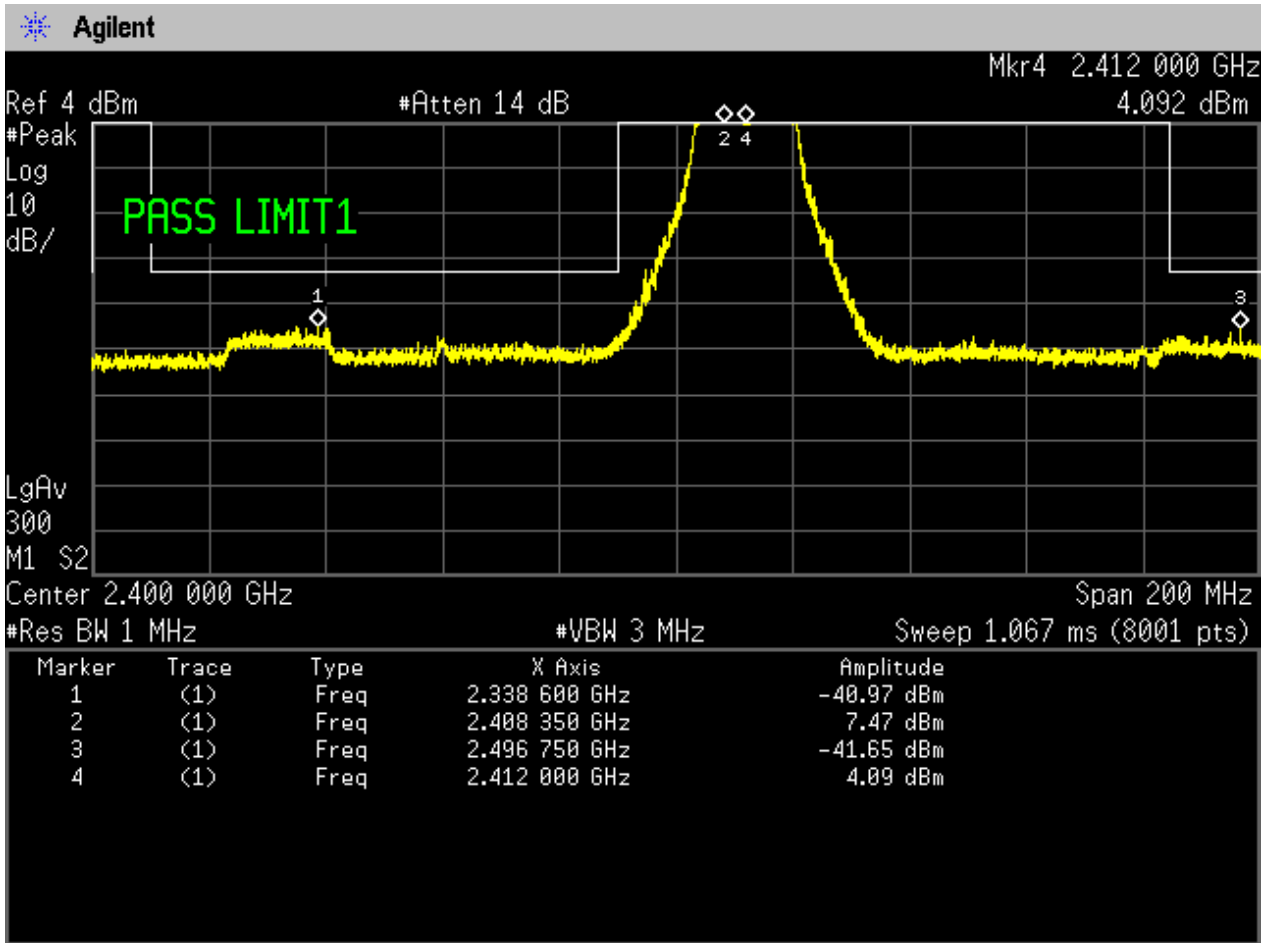


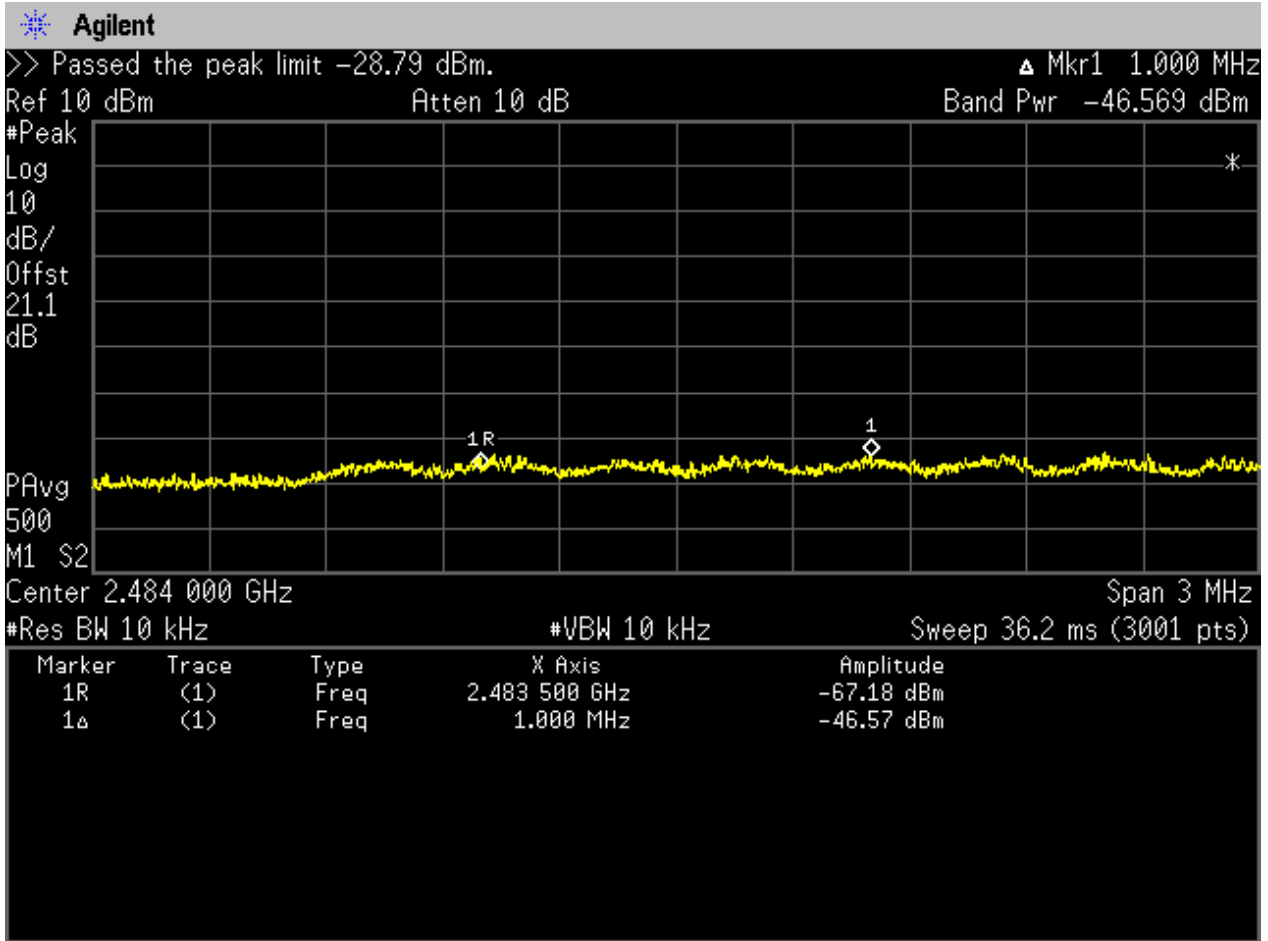


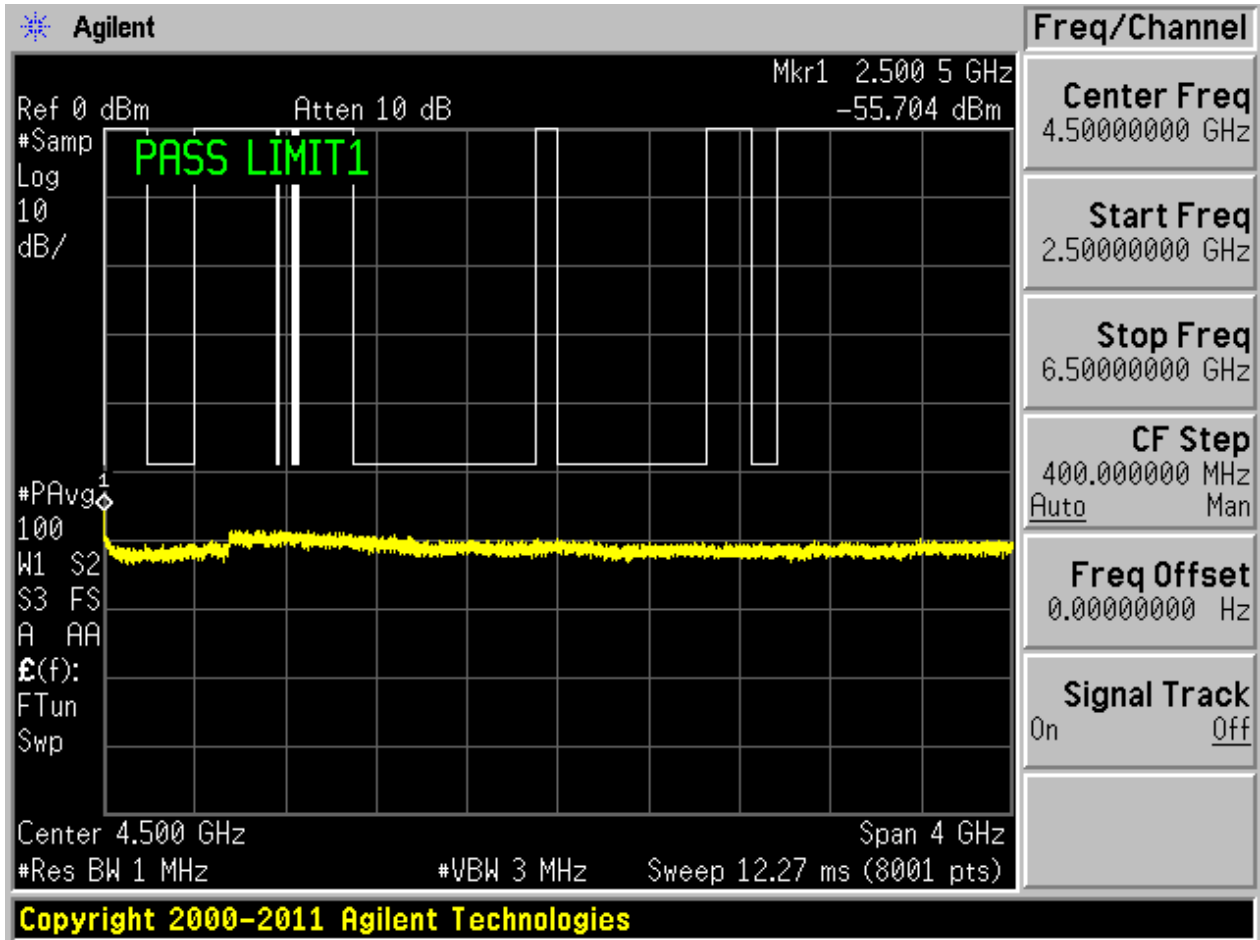


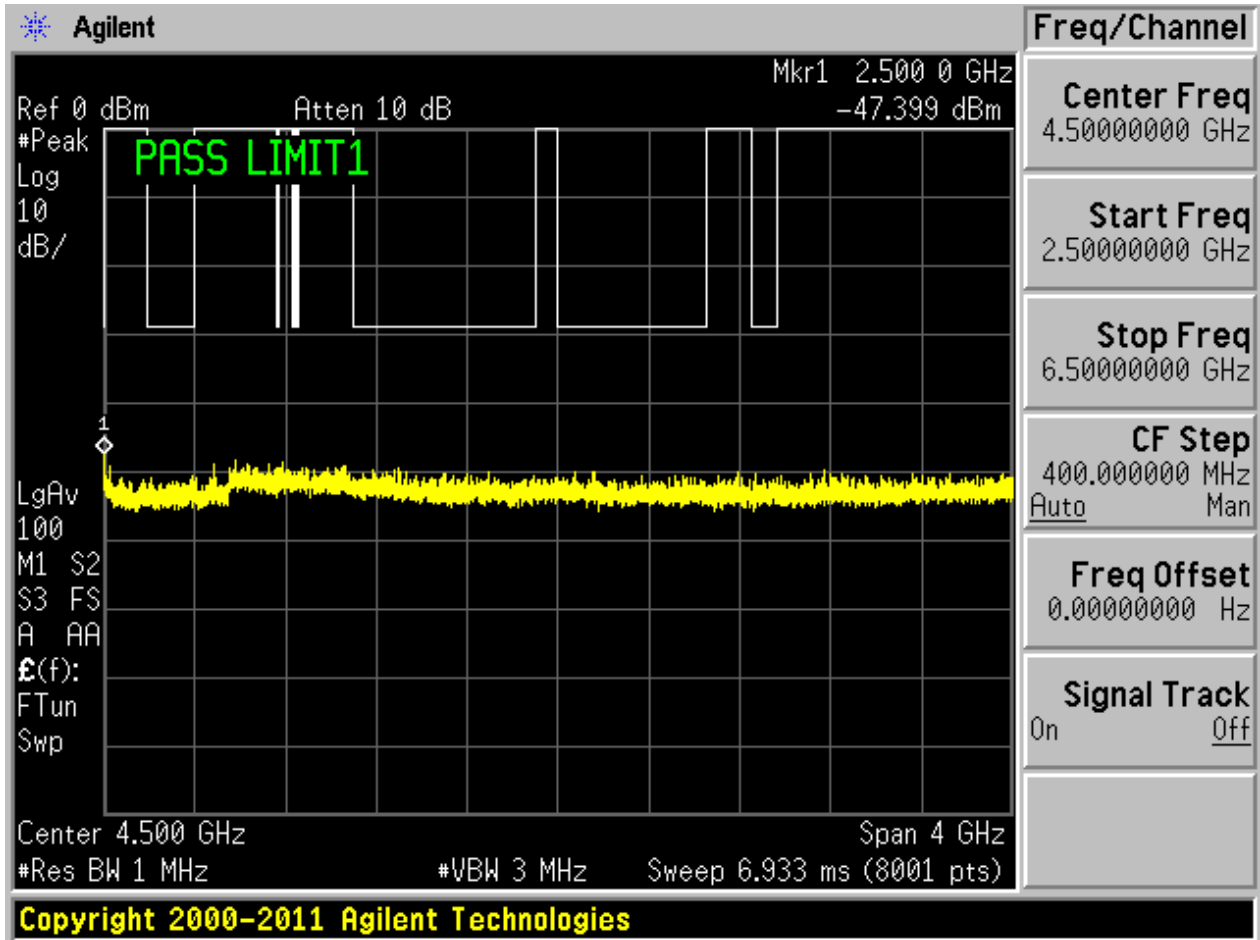


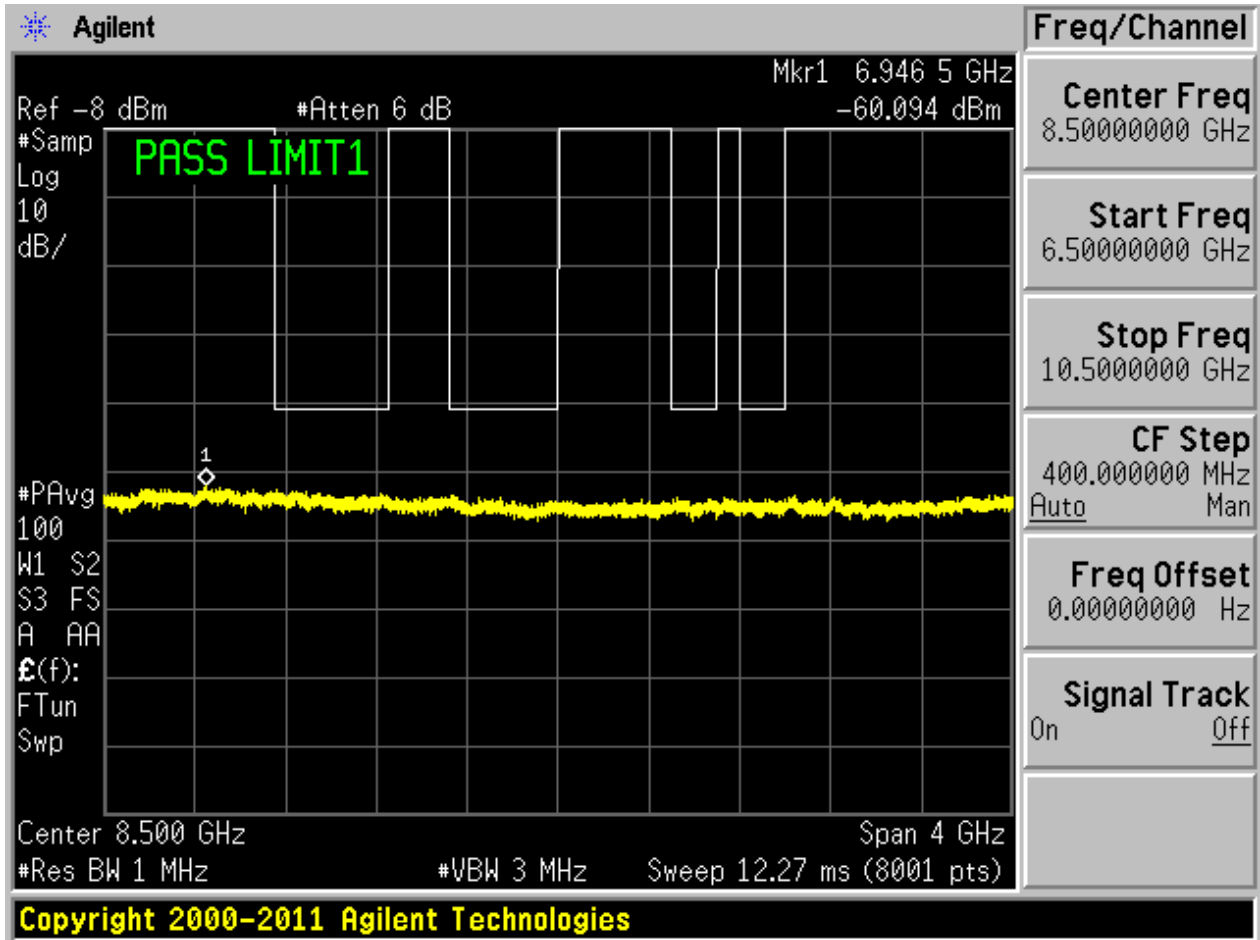


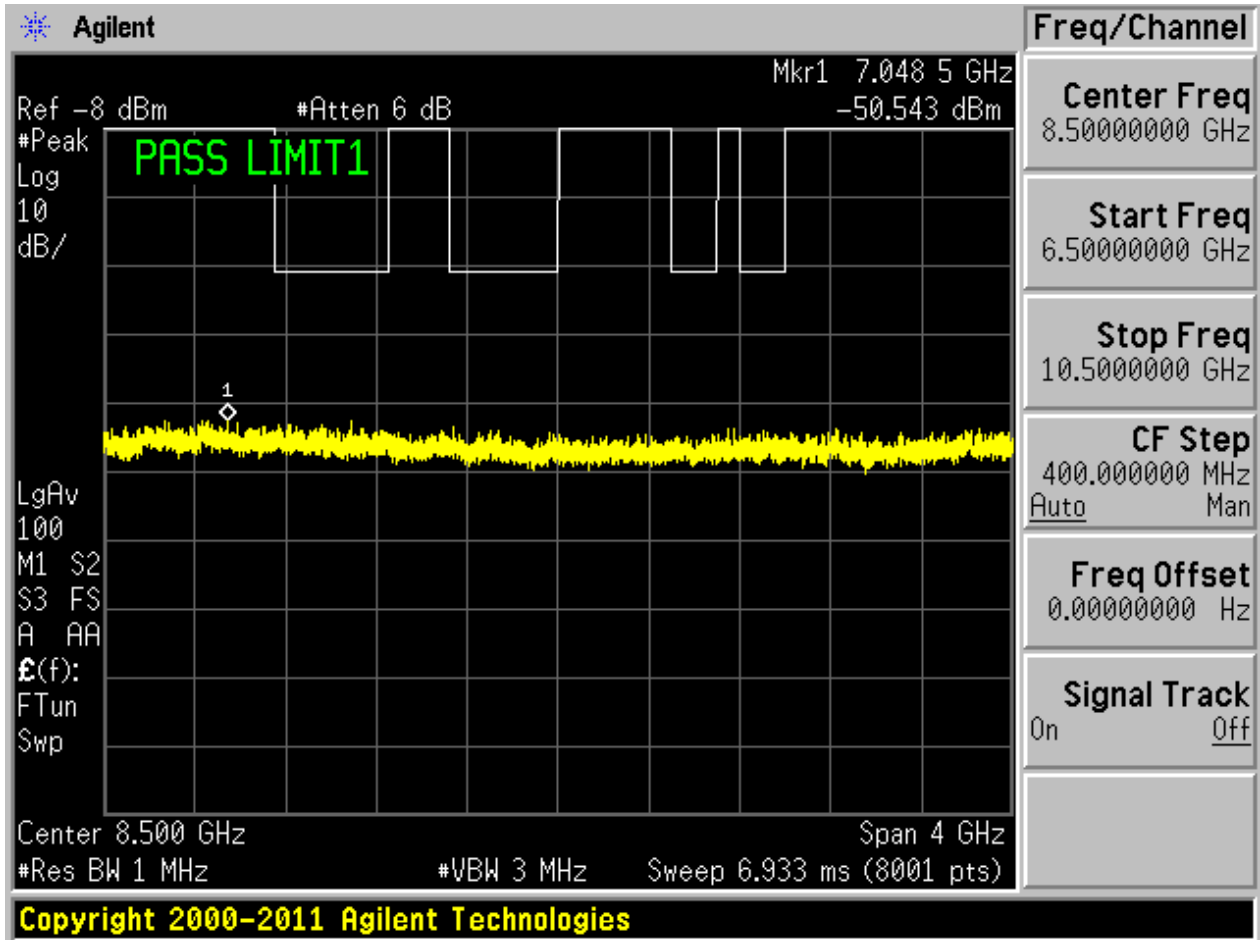


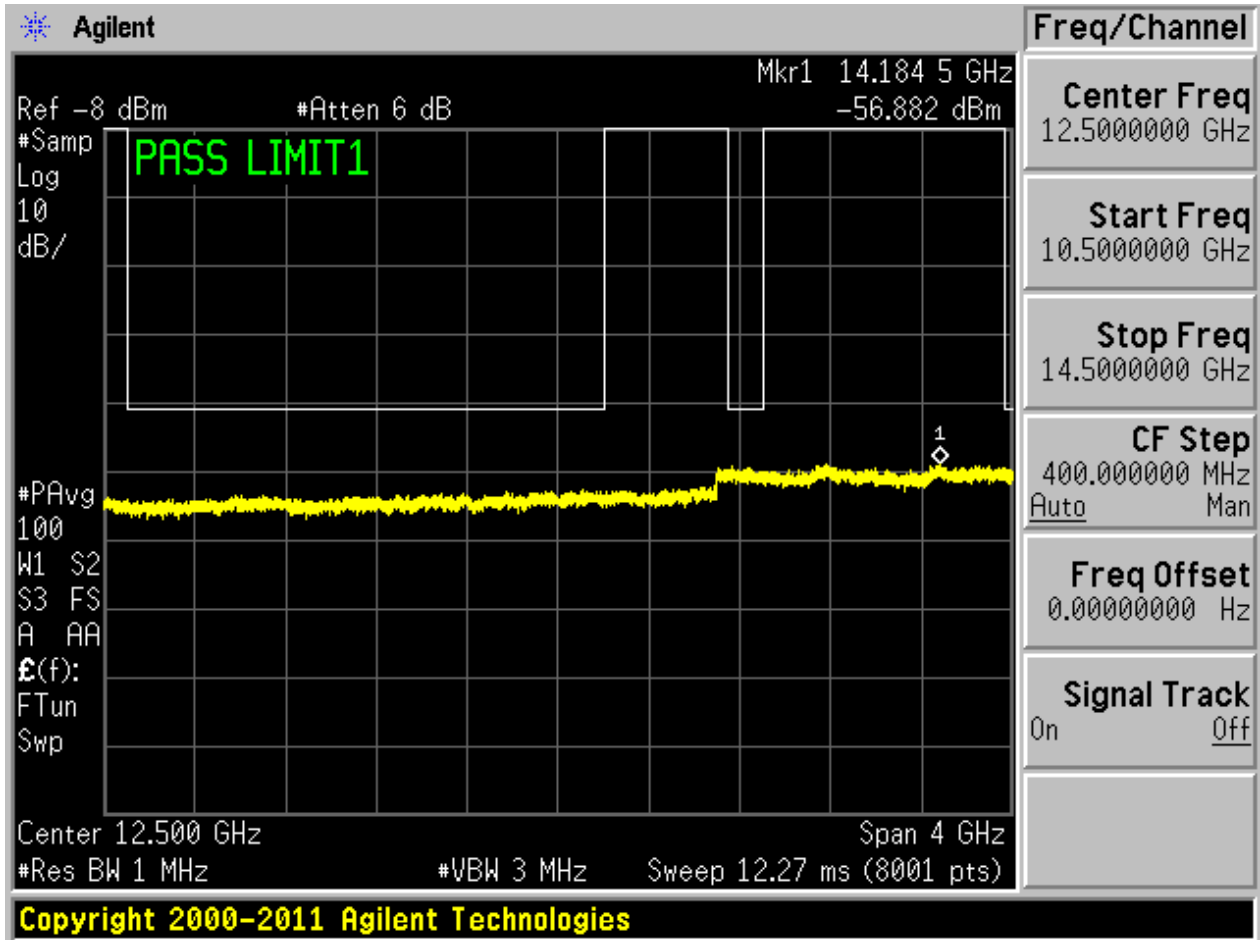


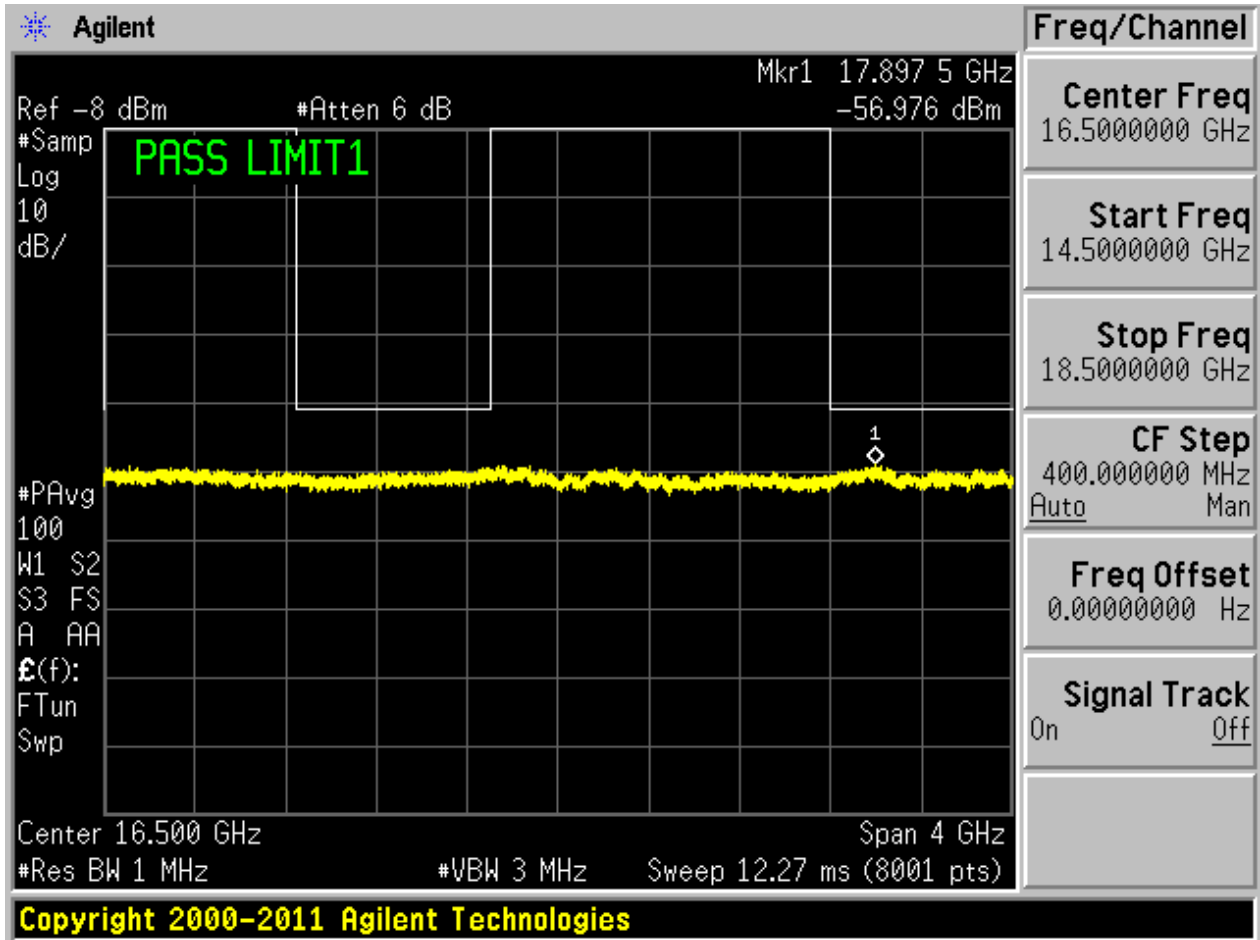


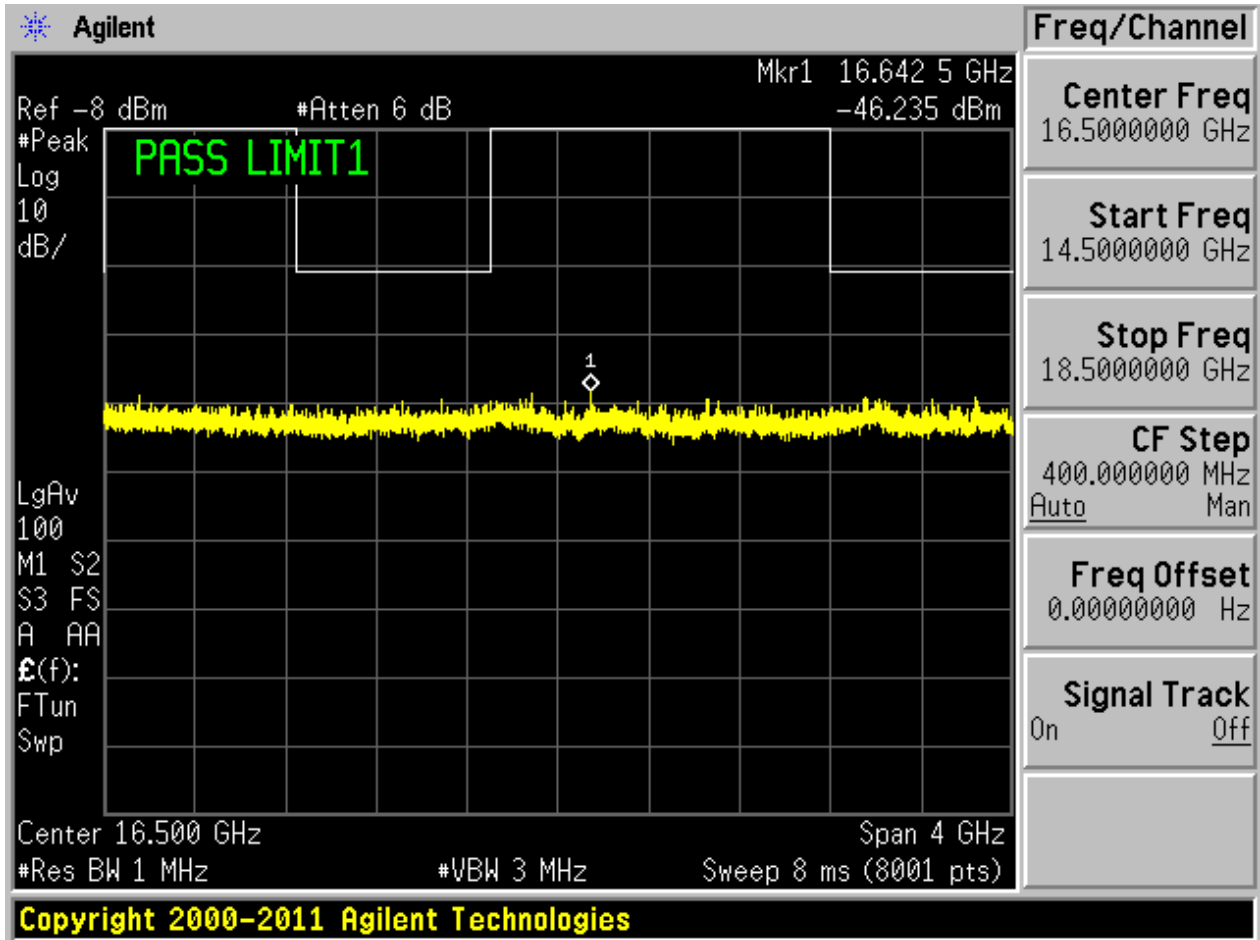


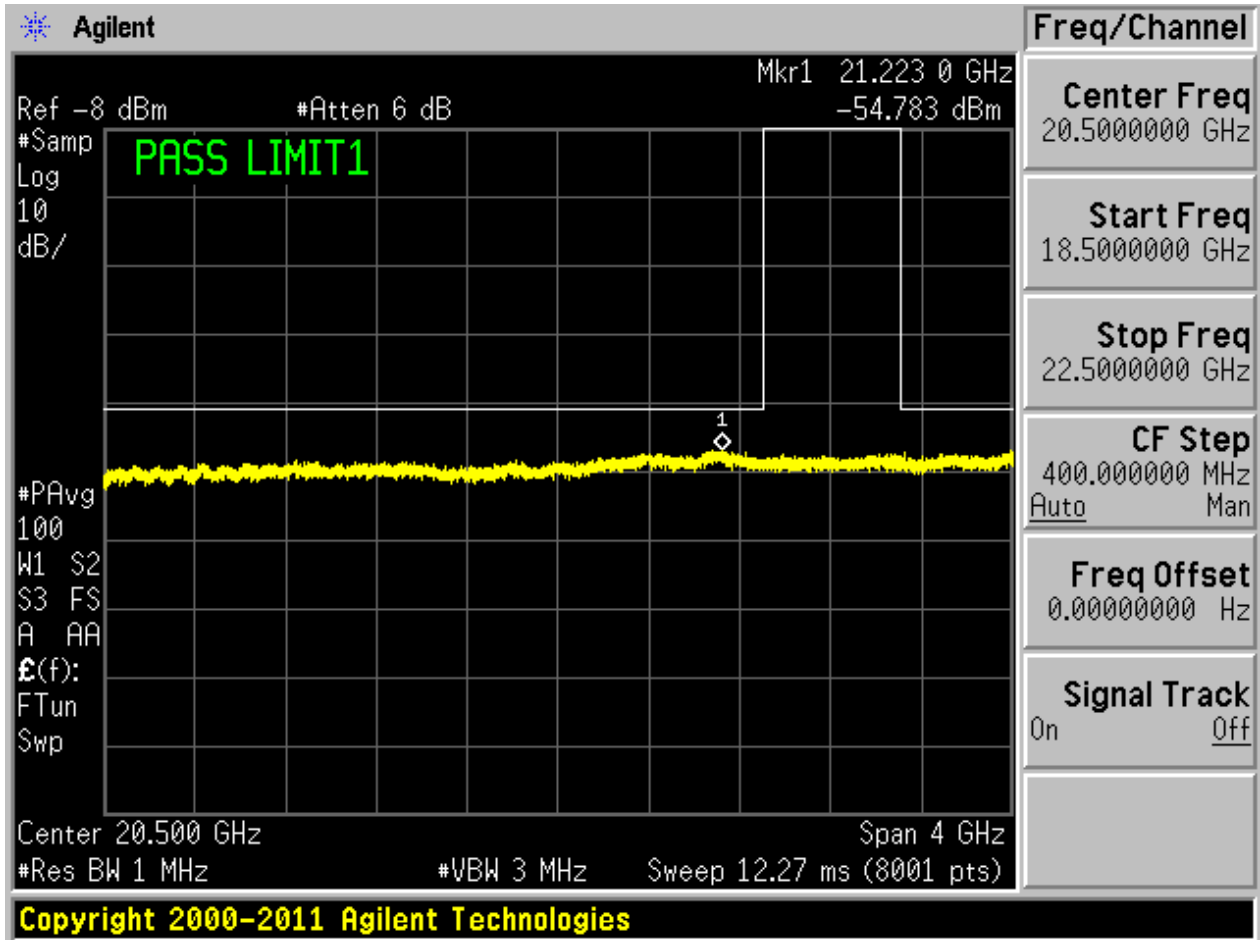


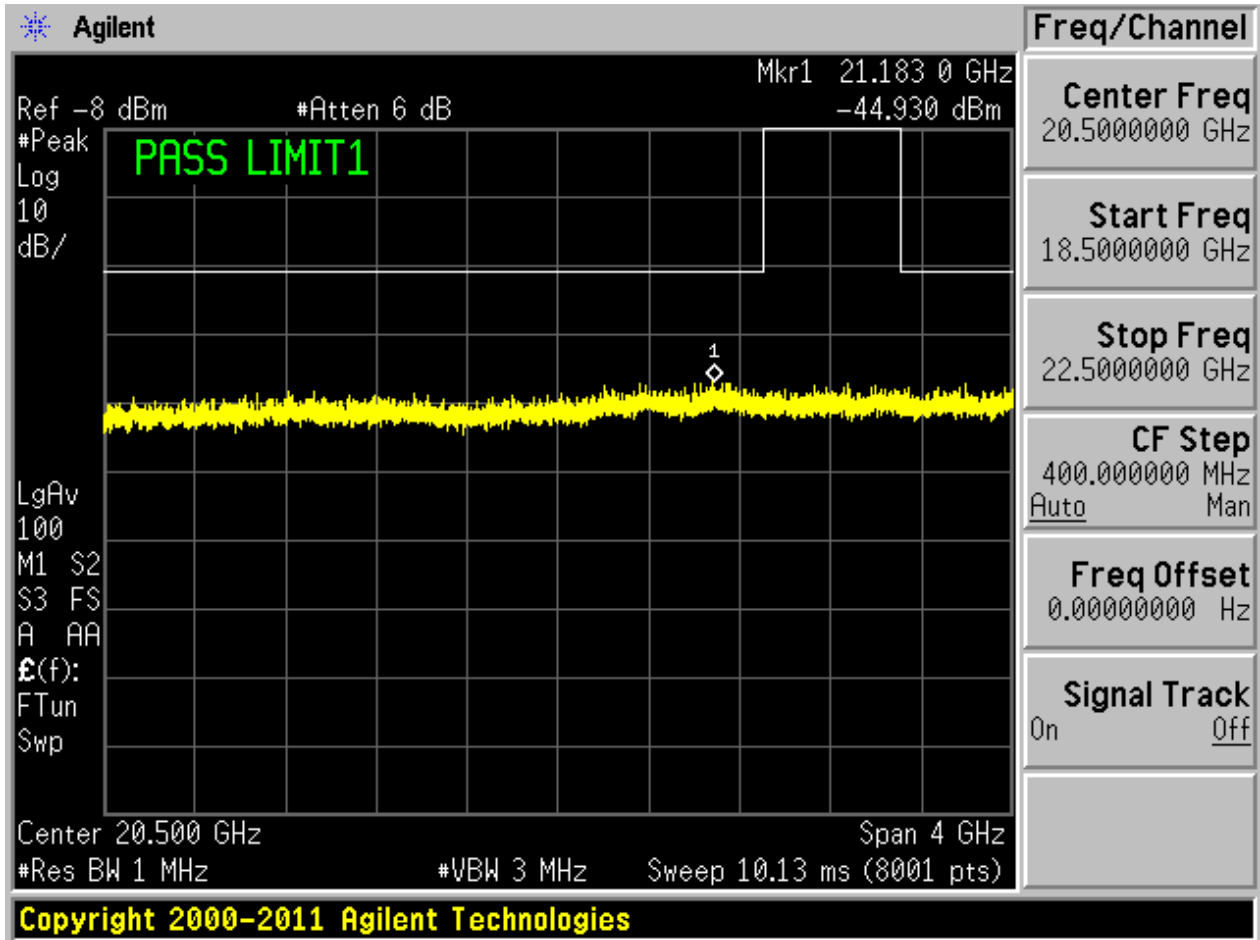


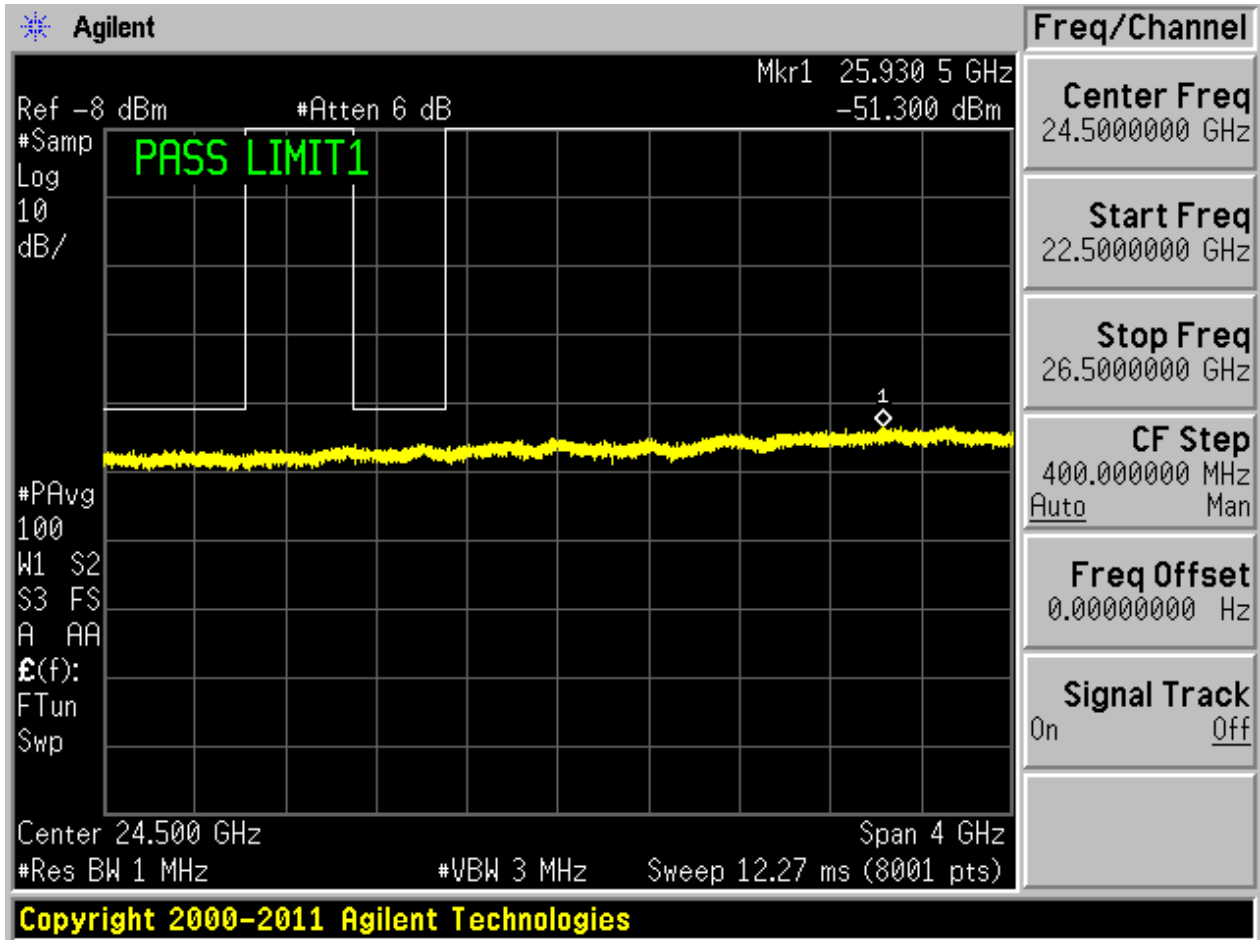


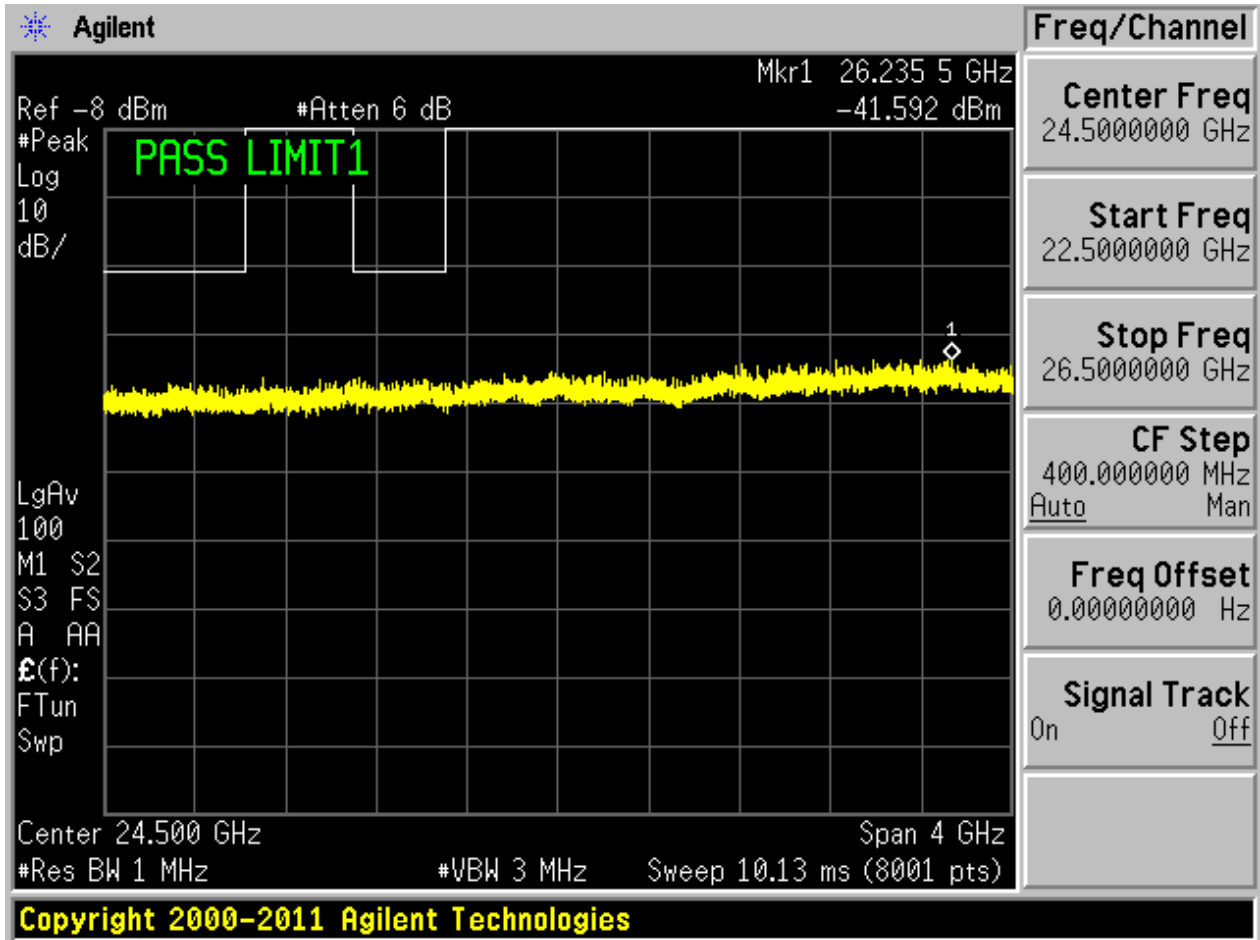










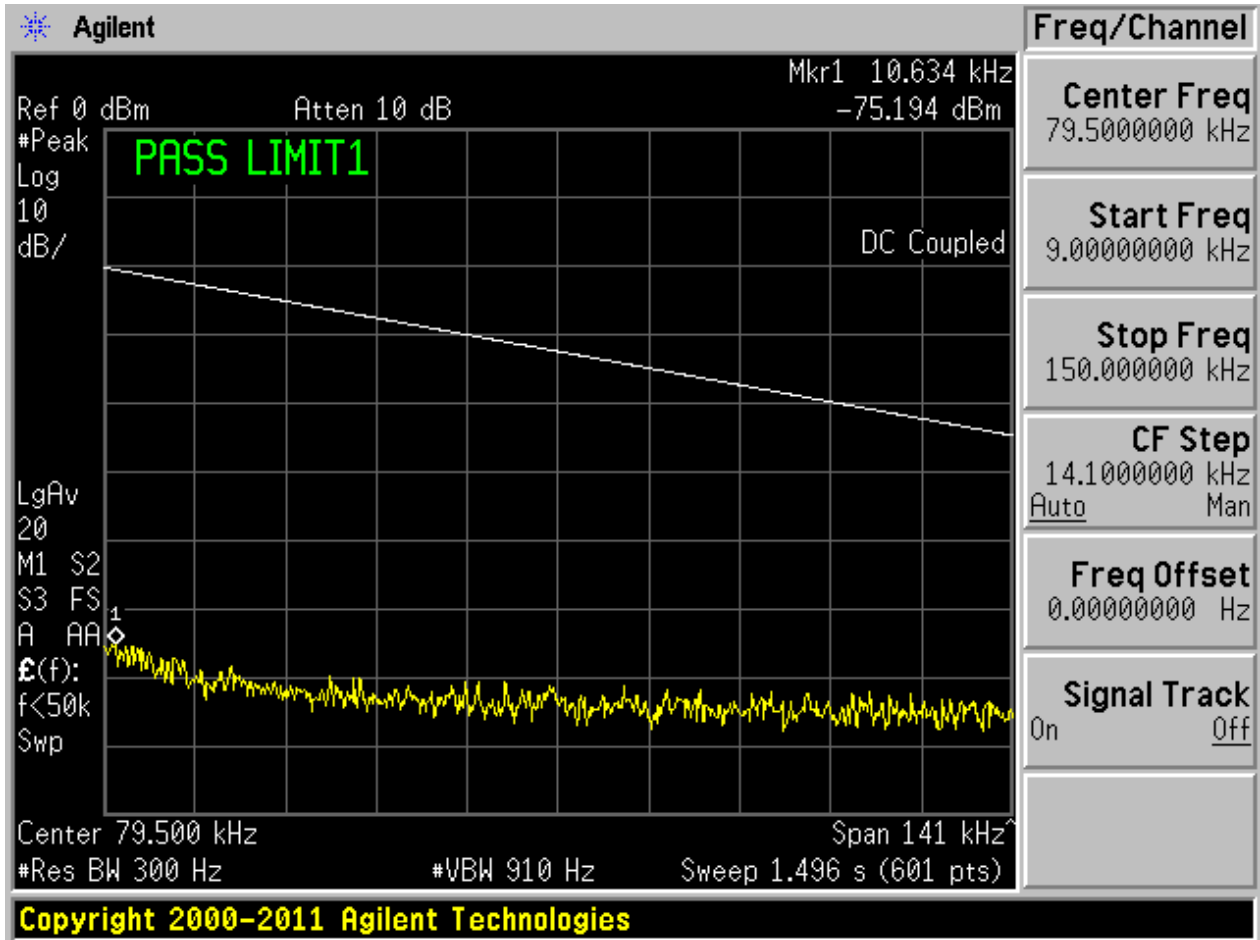


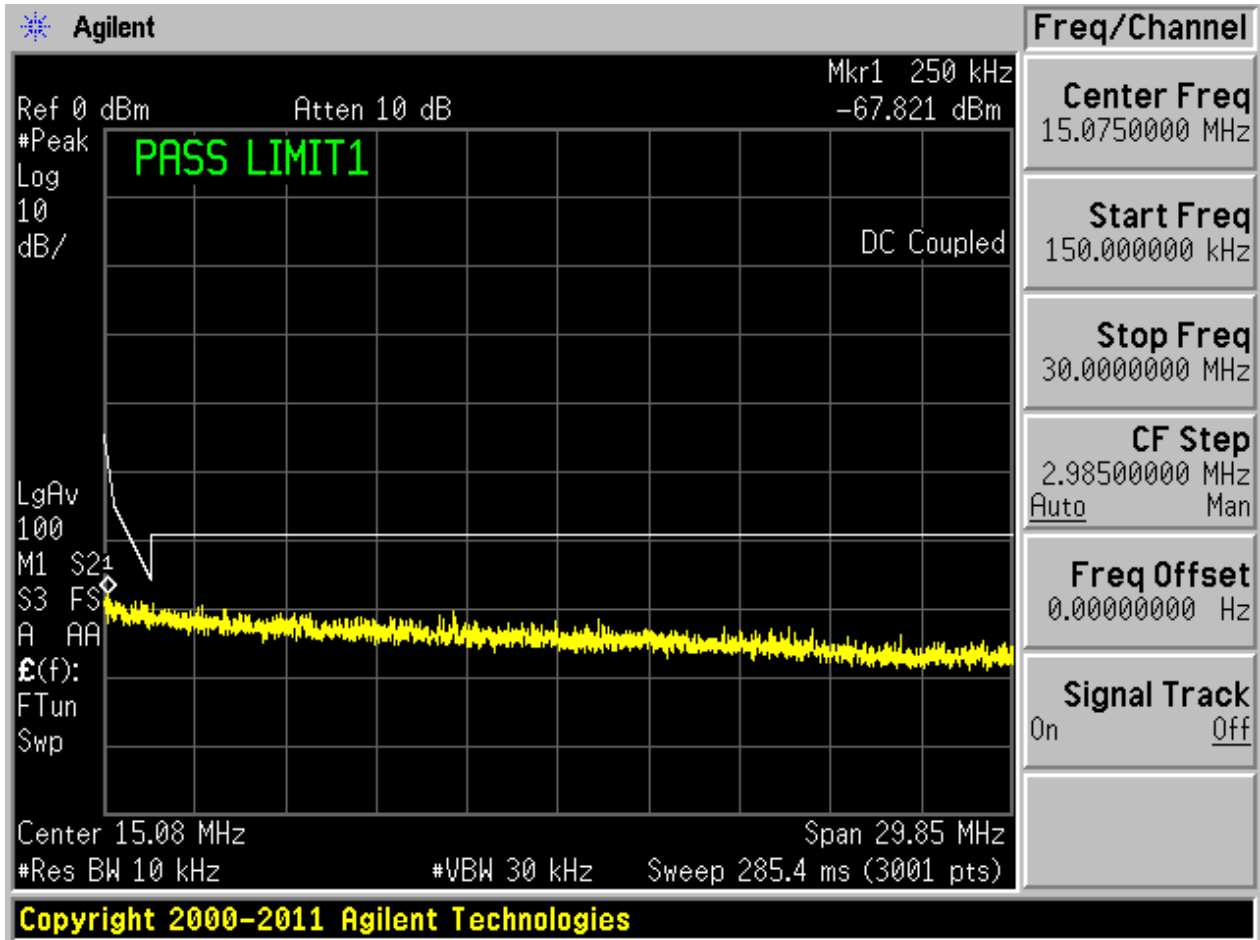
2.16.3 Trace#sum (if needed for final judgment)

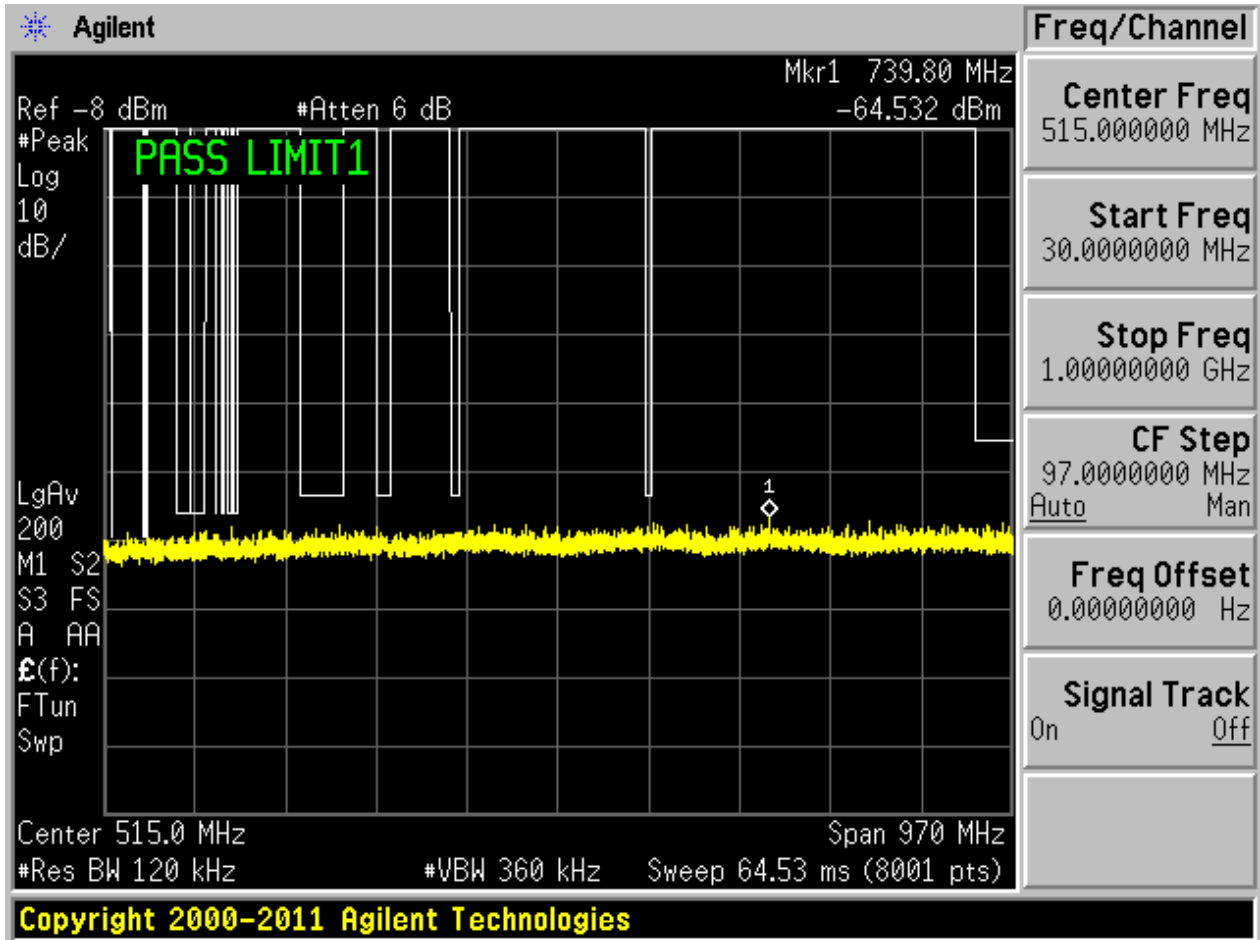
(Not applicable)

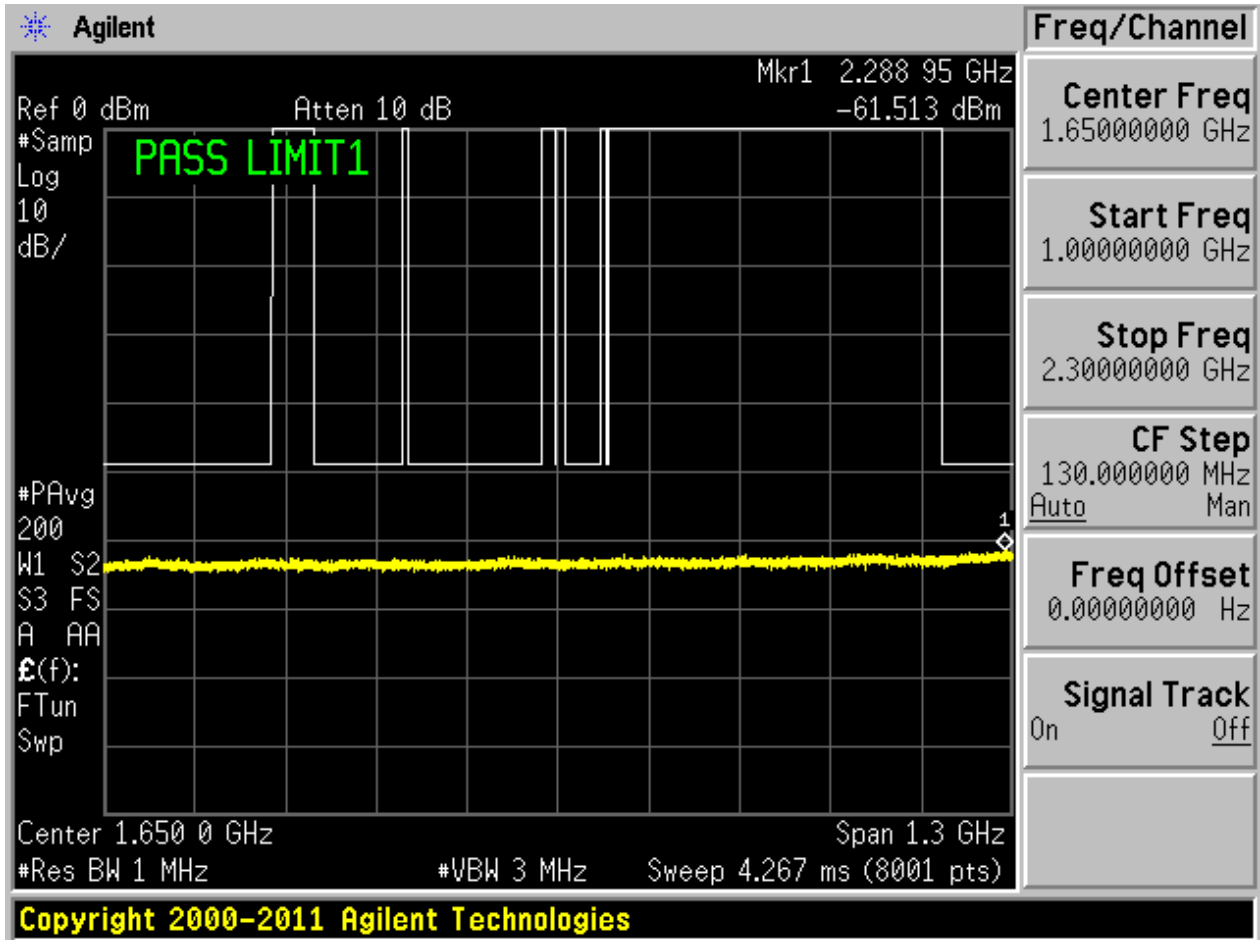
2.1711N20m/8_M@1+2

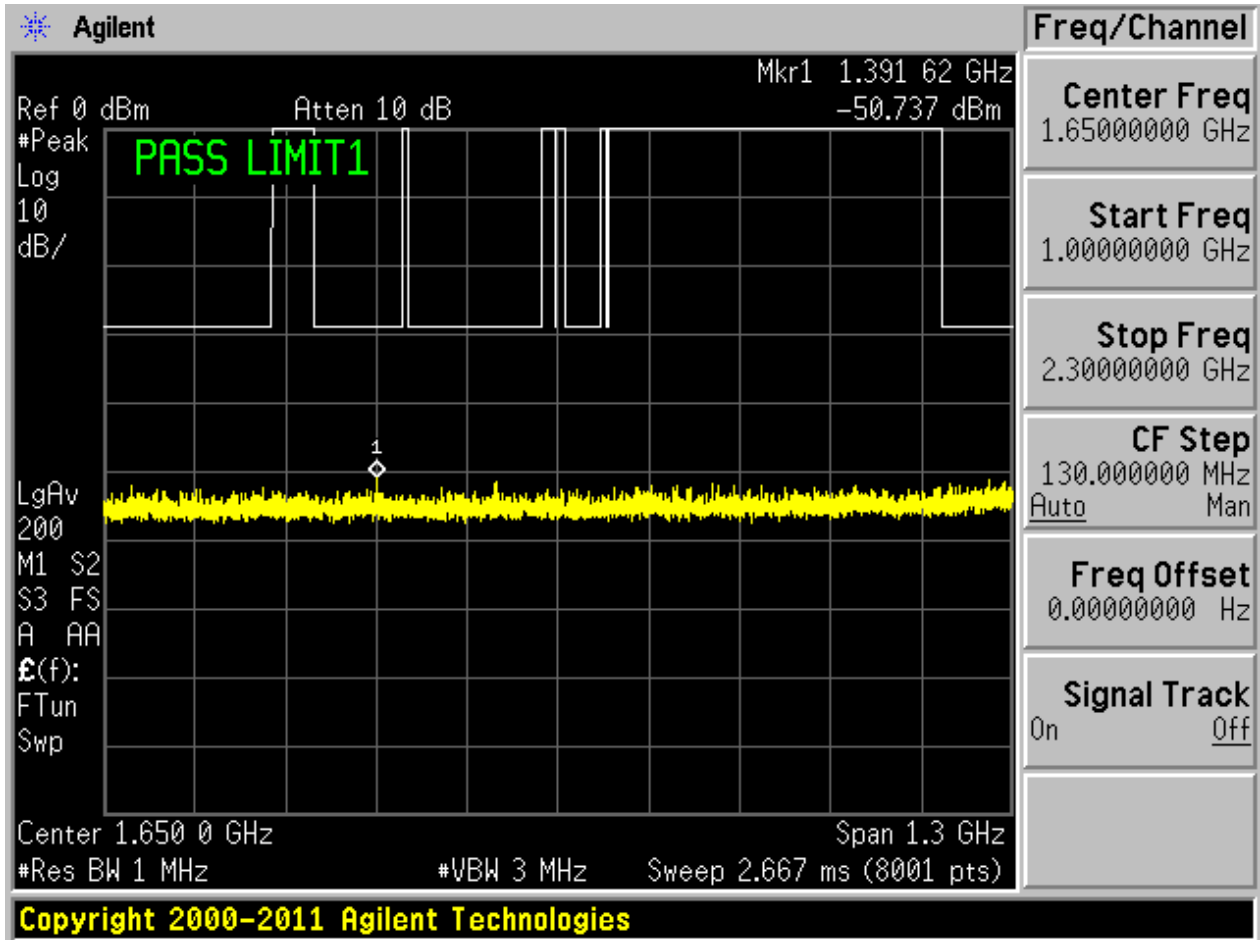
2.17.1 Ant 1 (Trace#1)

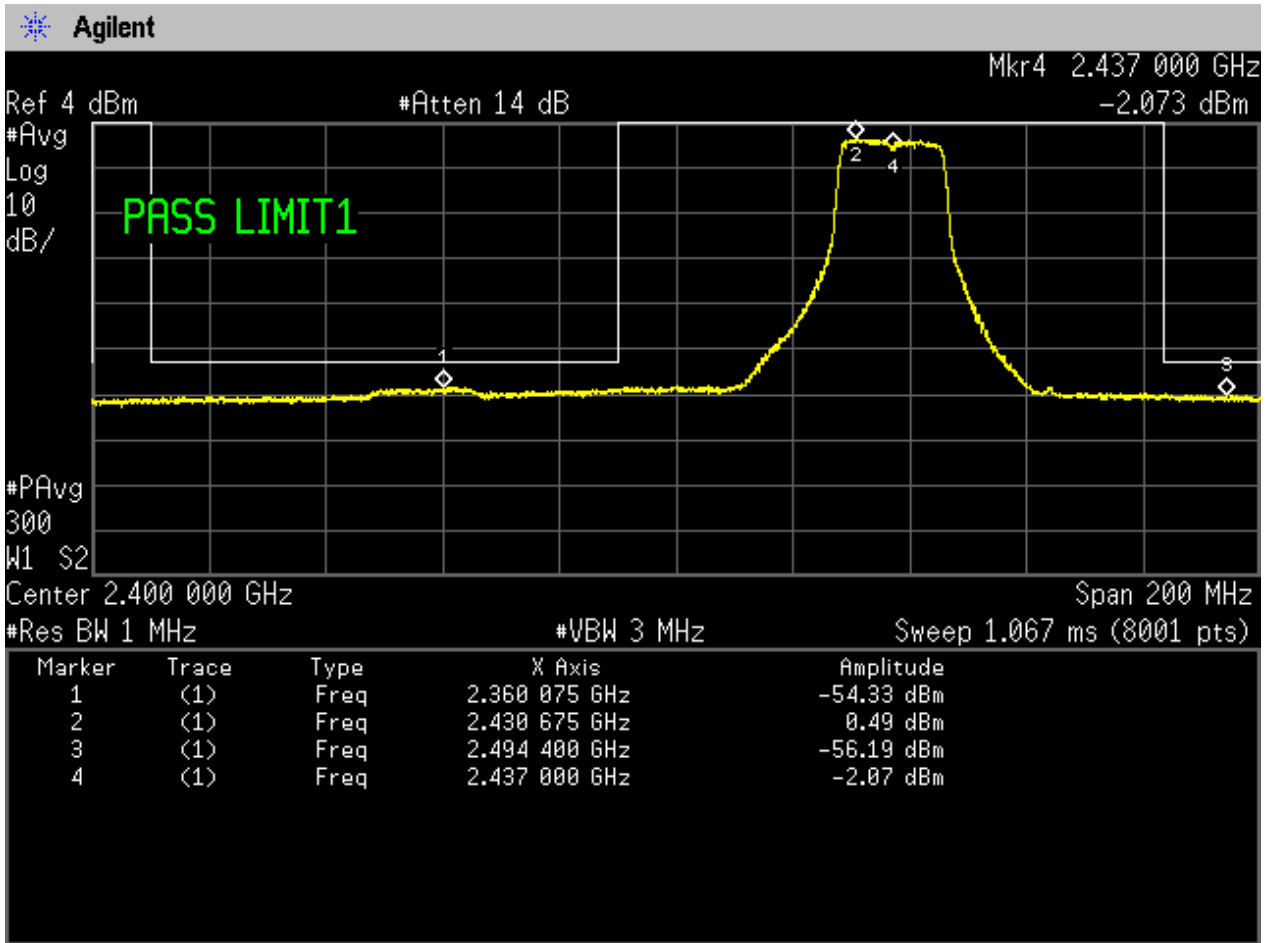


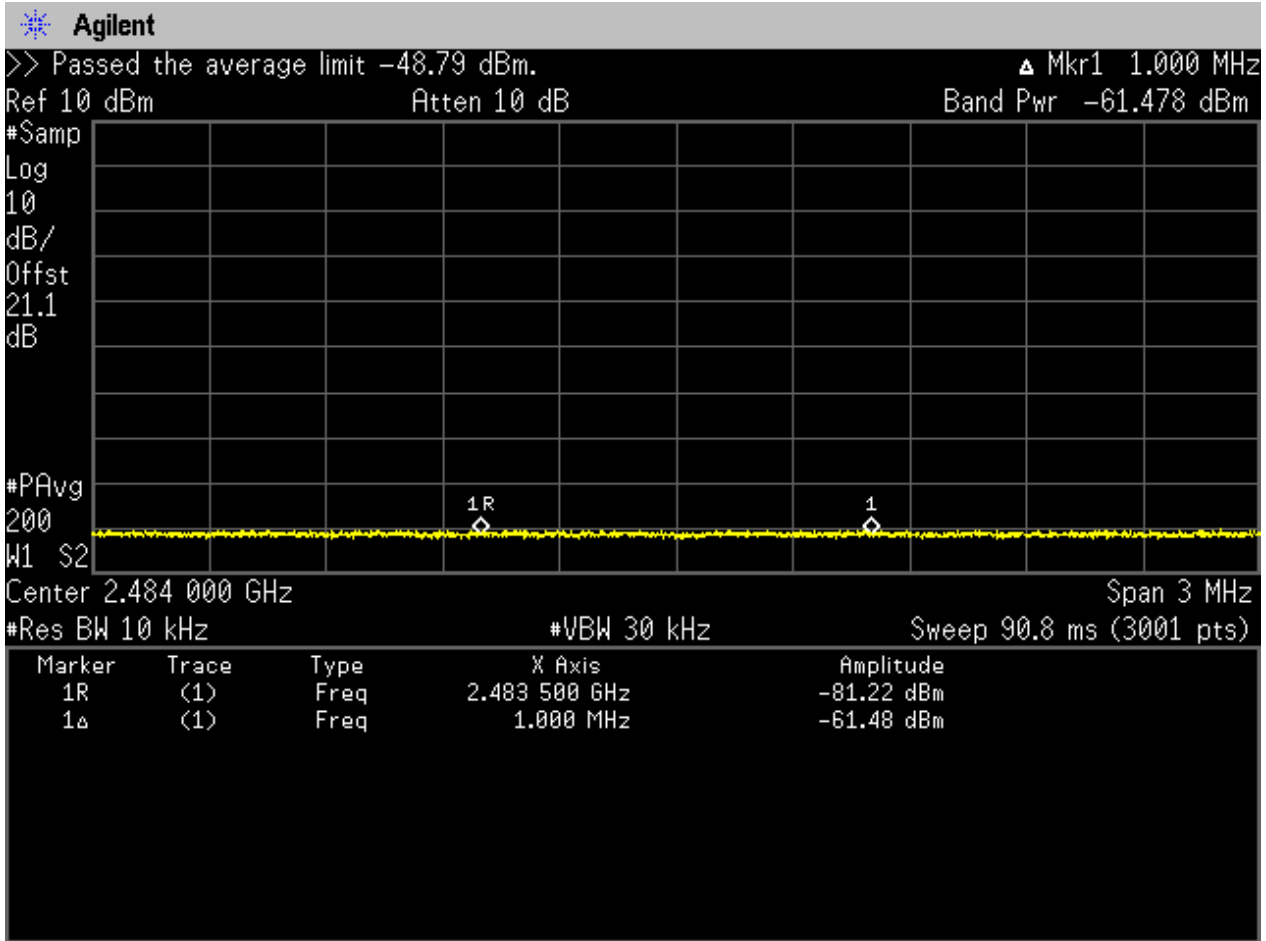


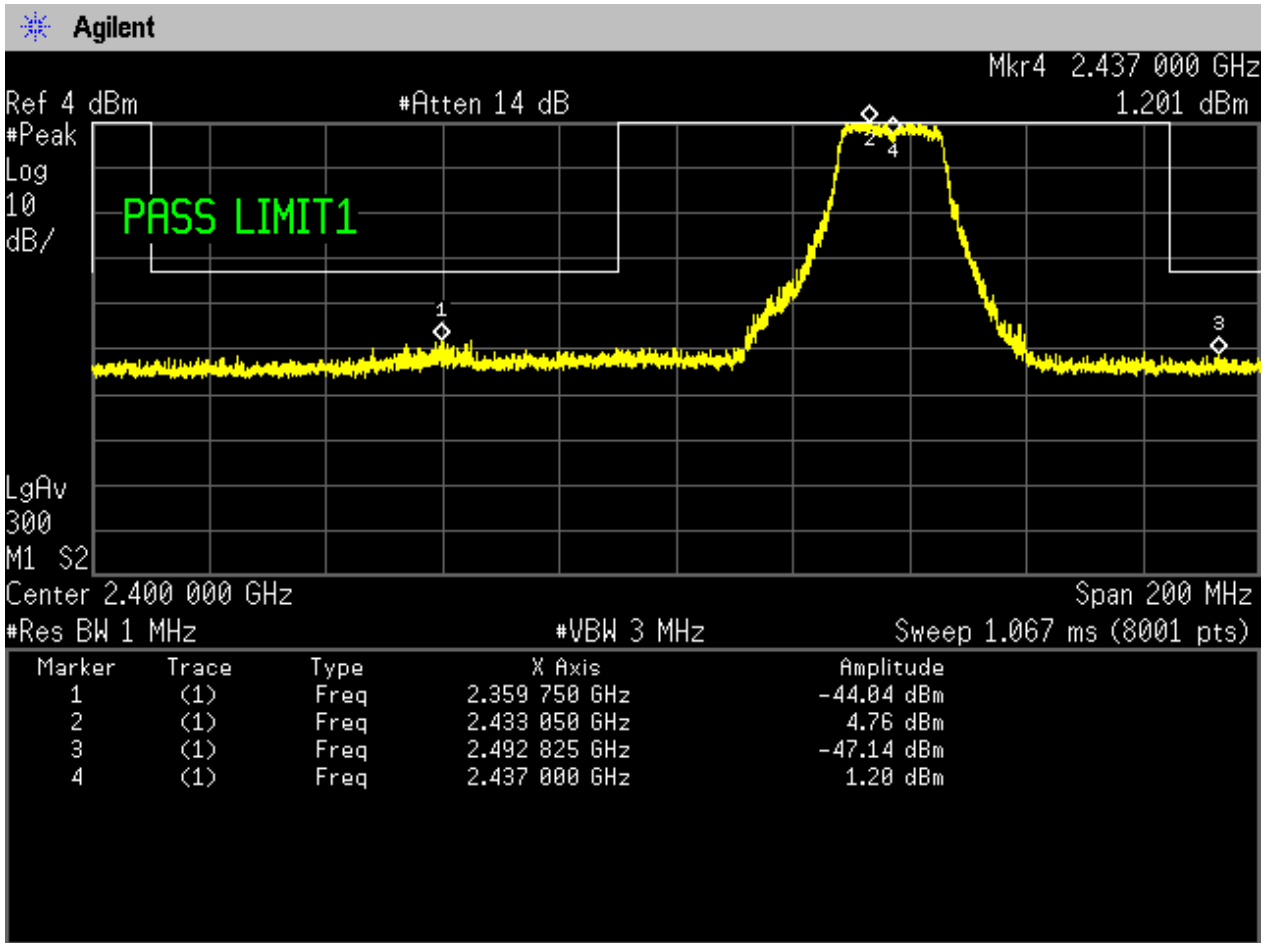


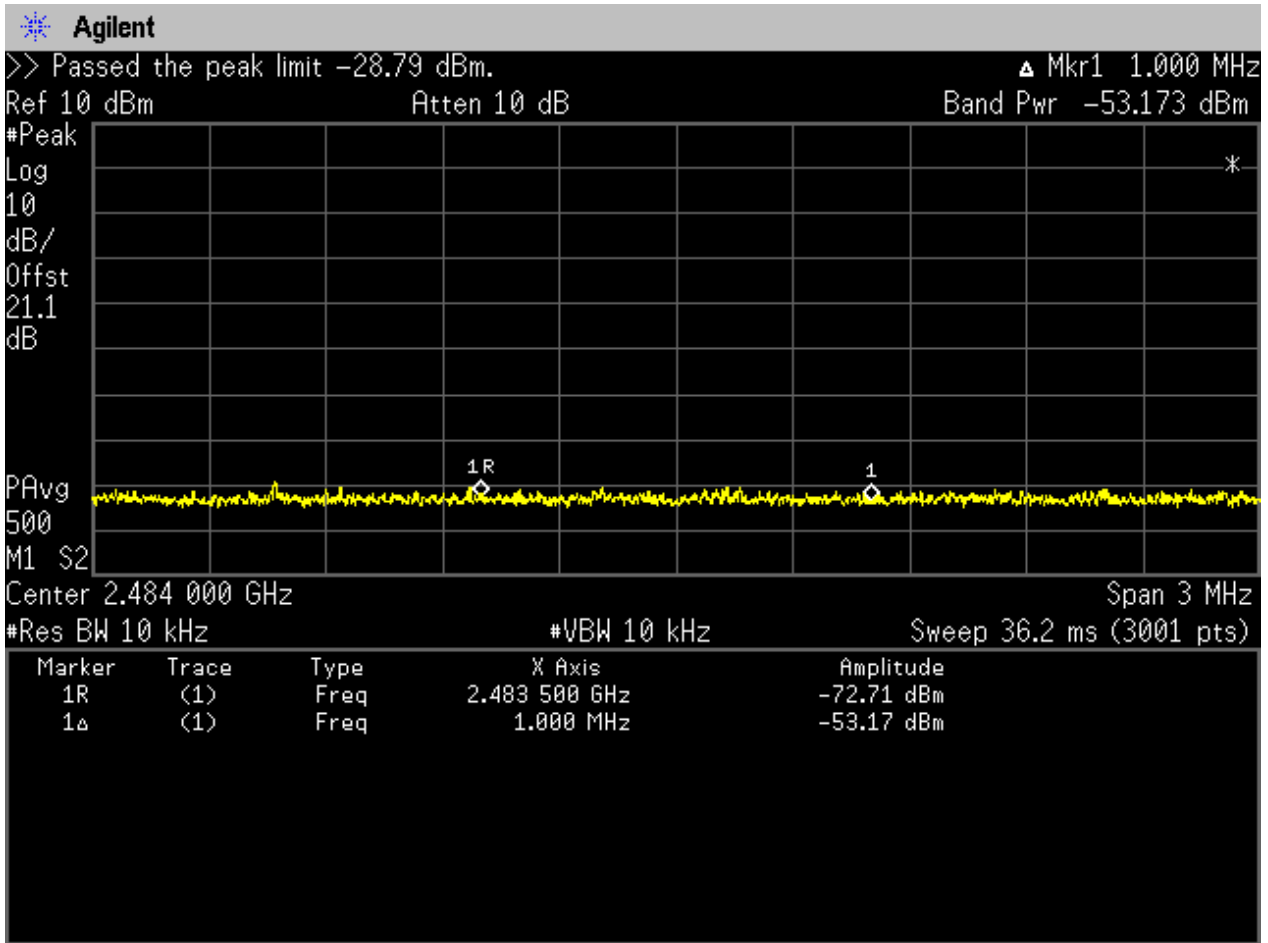


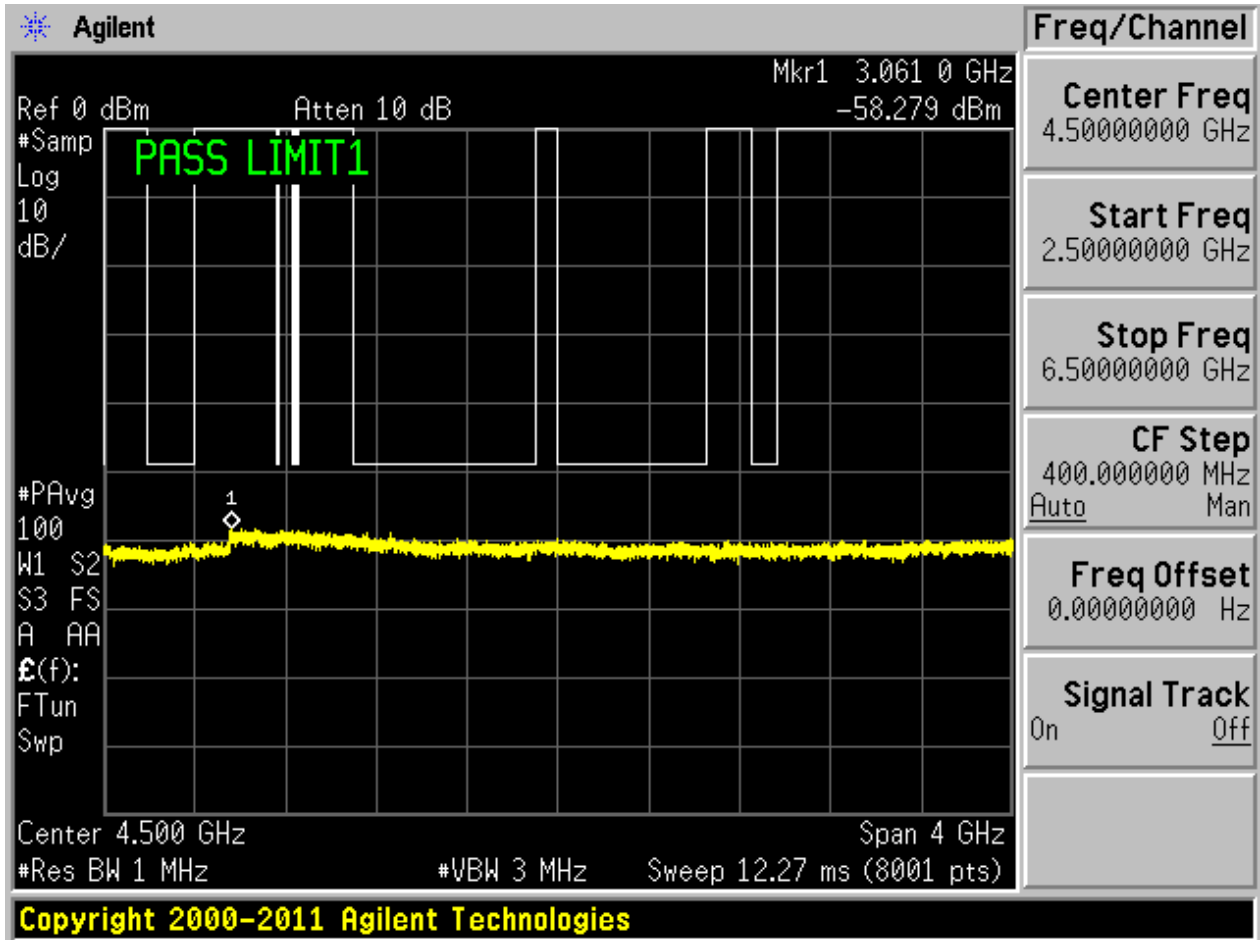


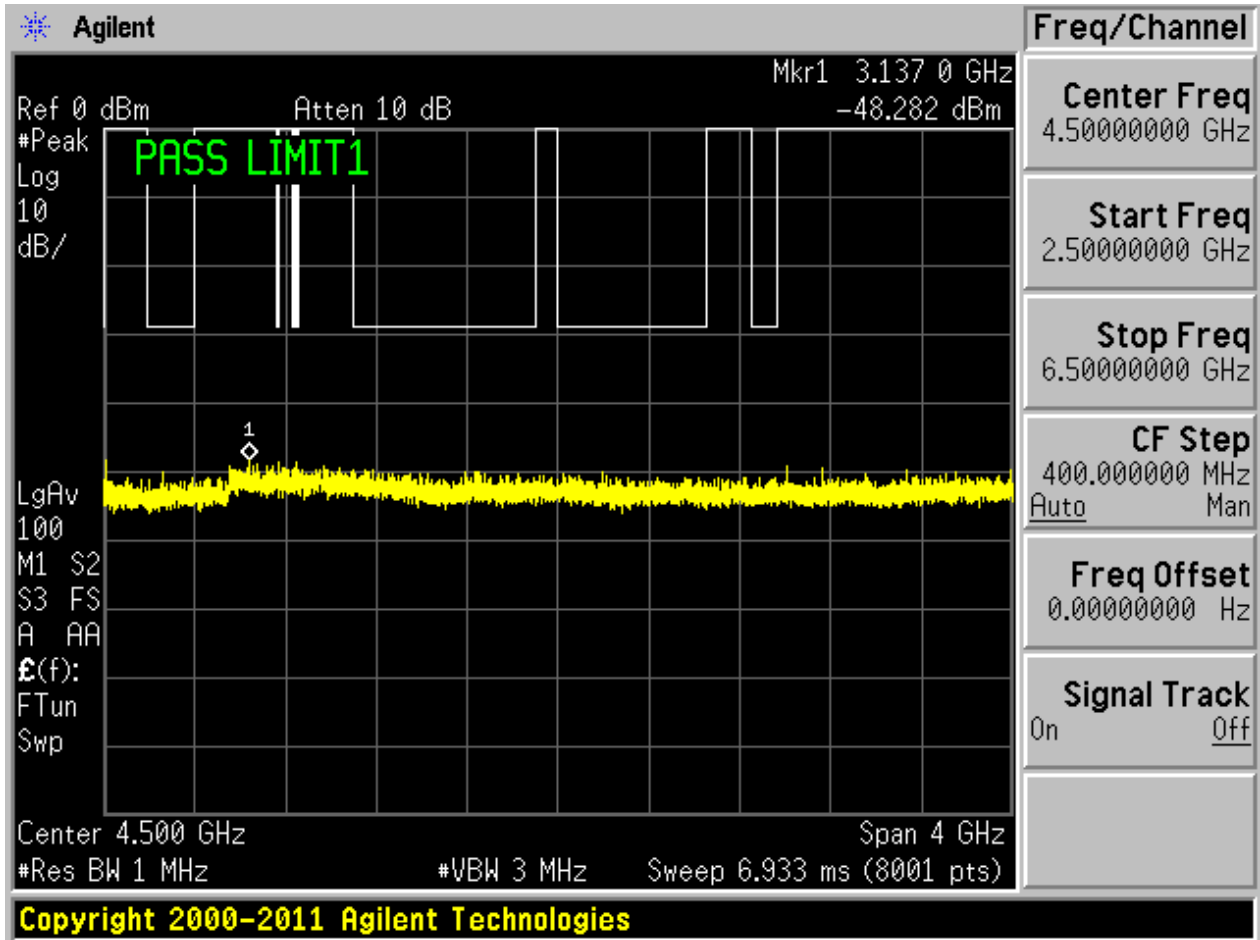


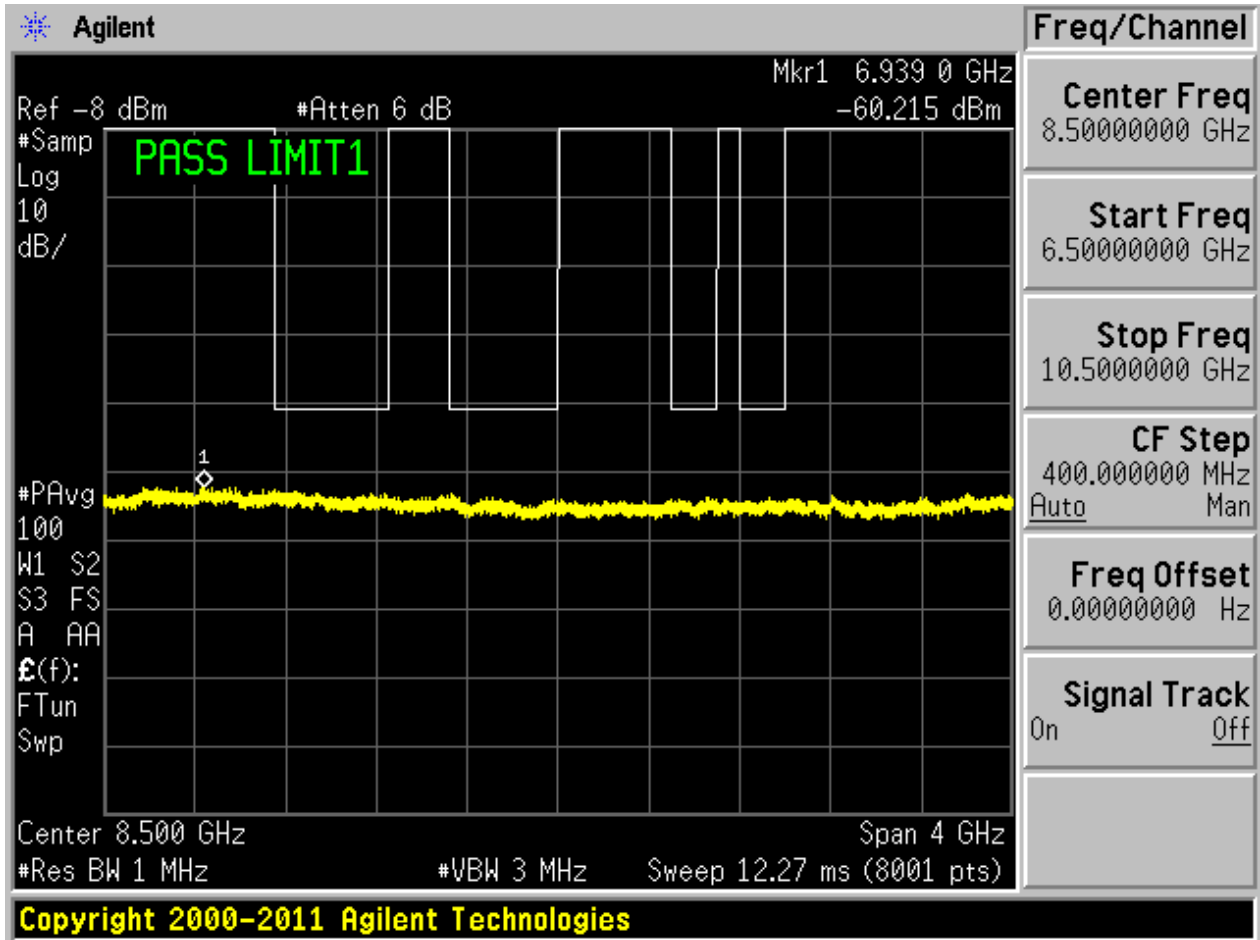


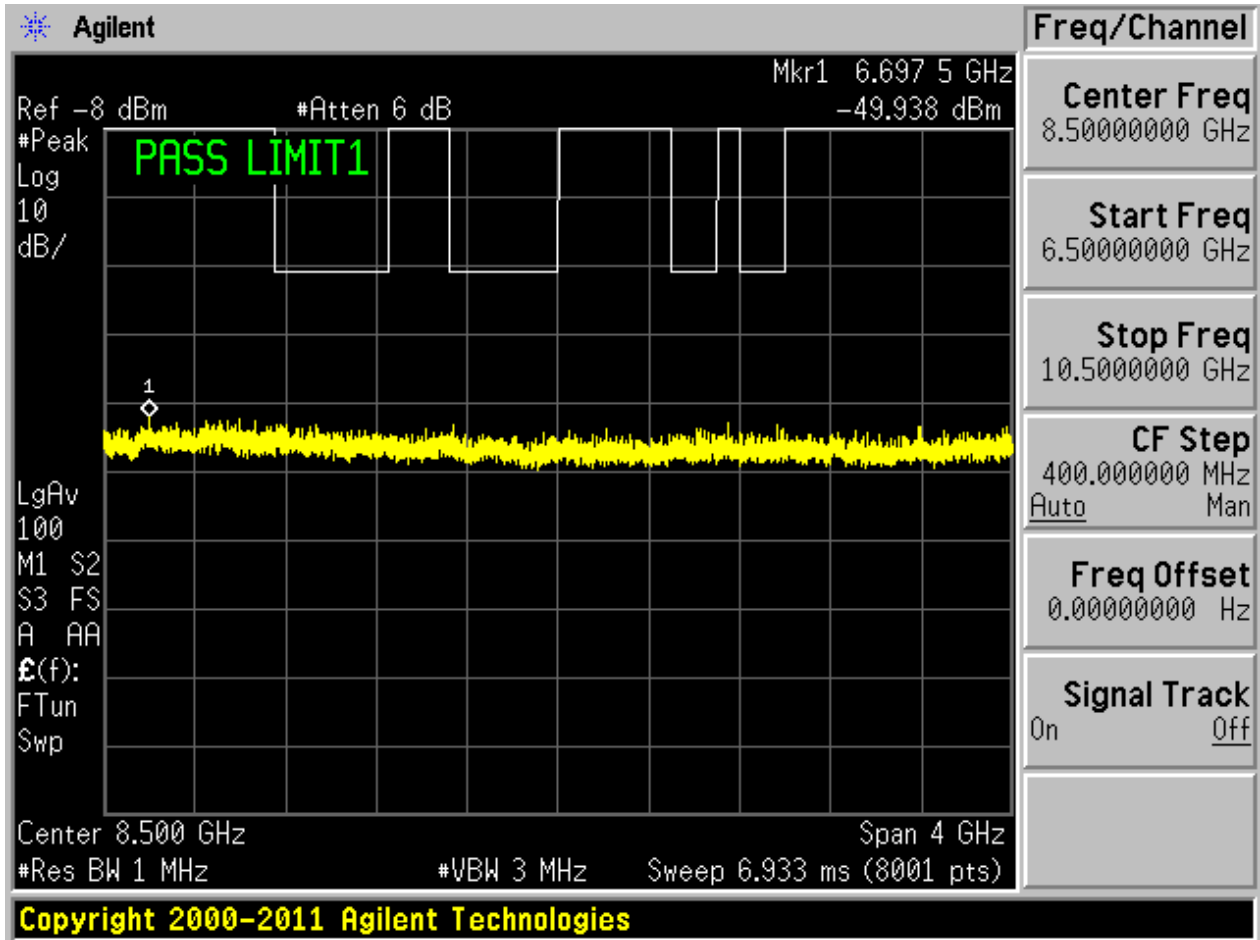


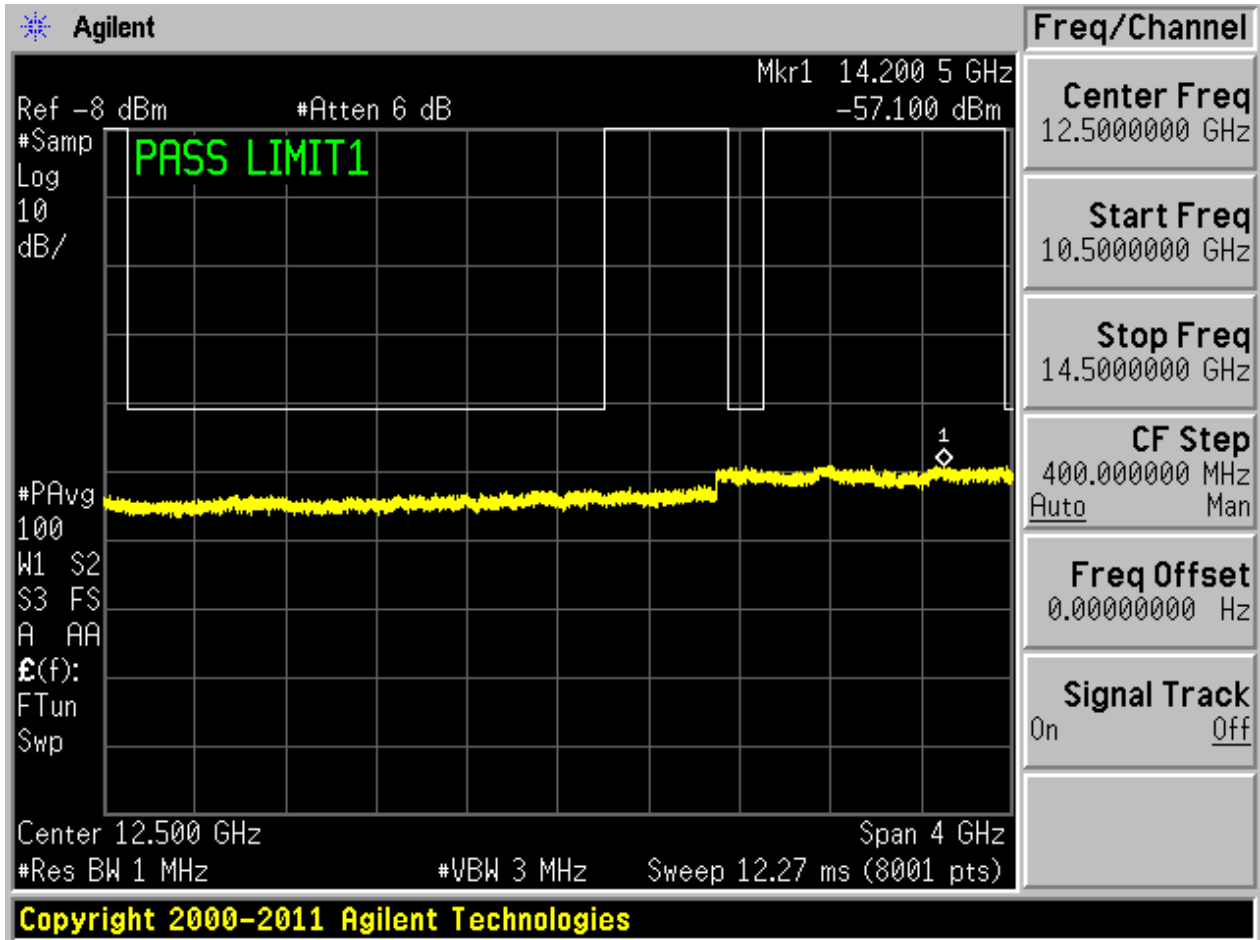


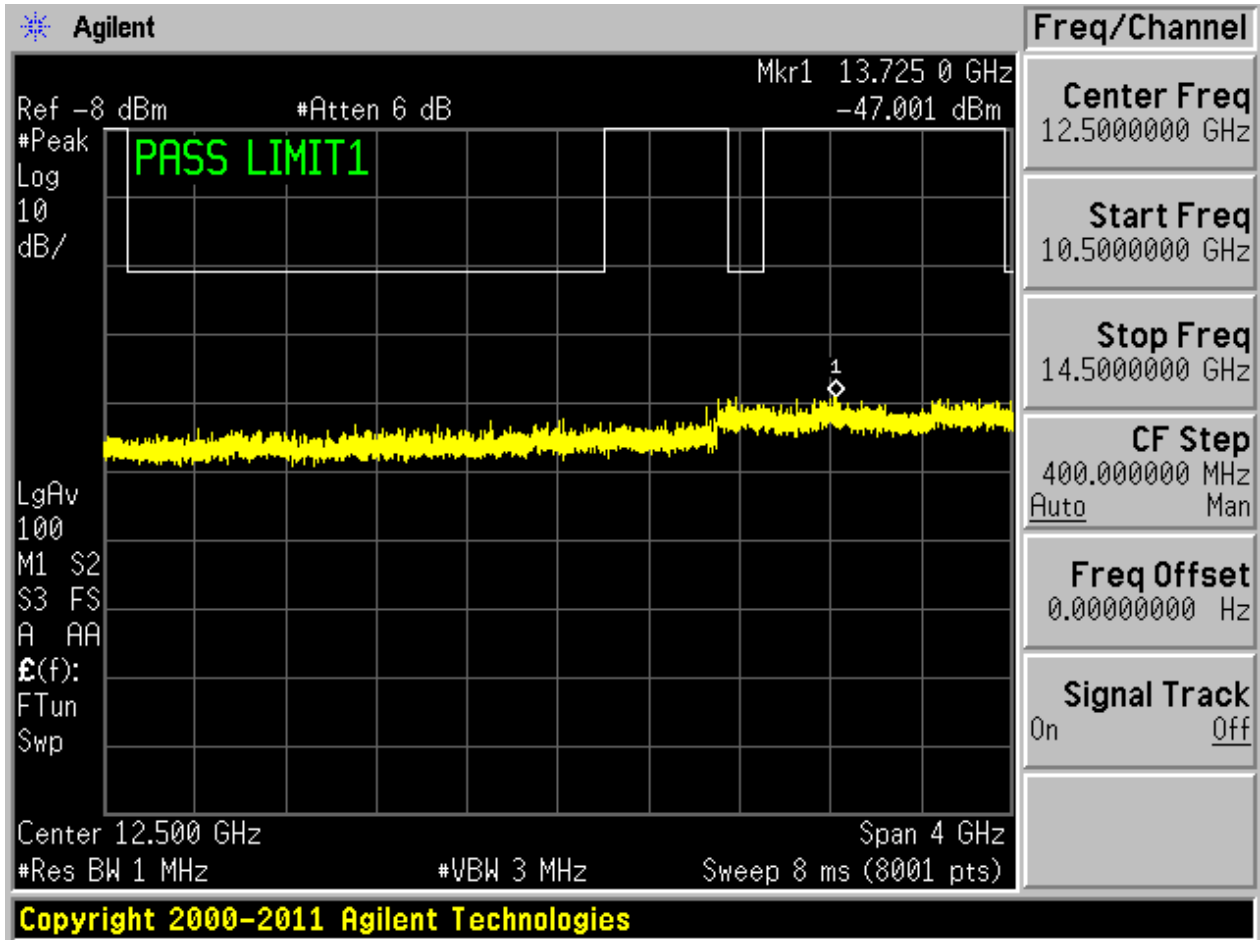




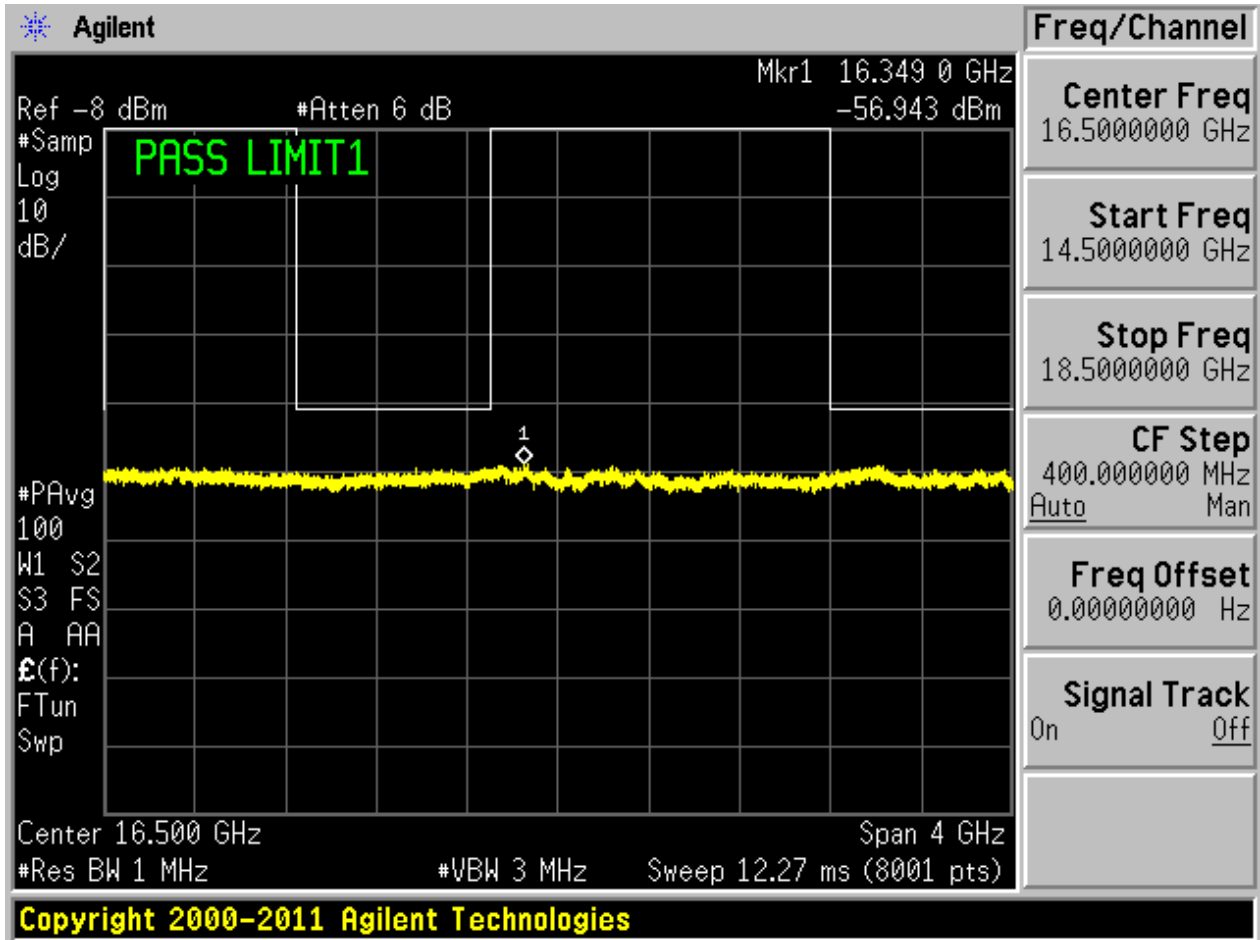


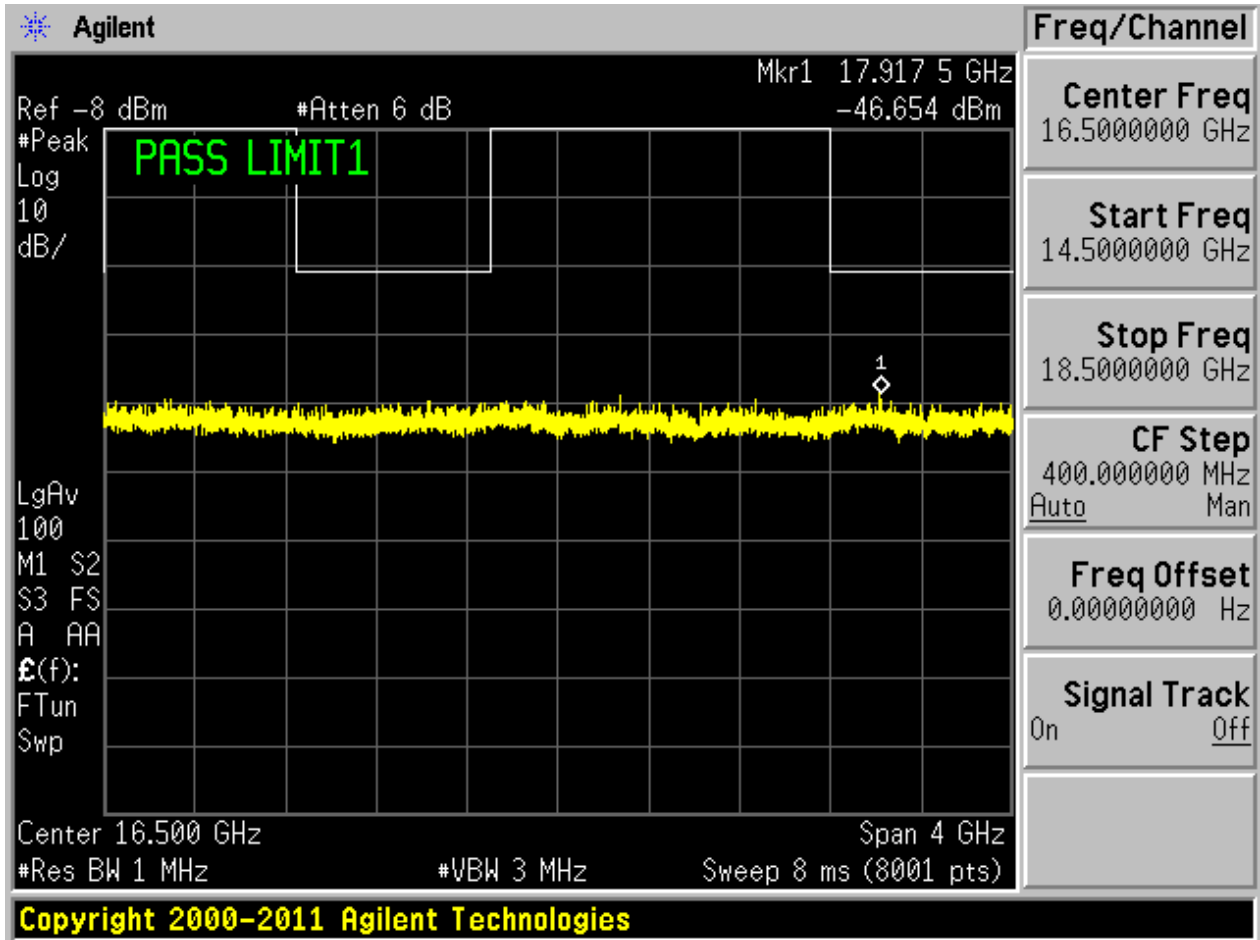


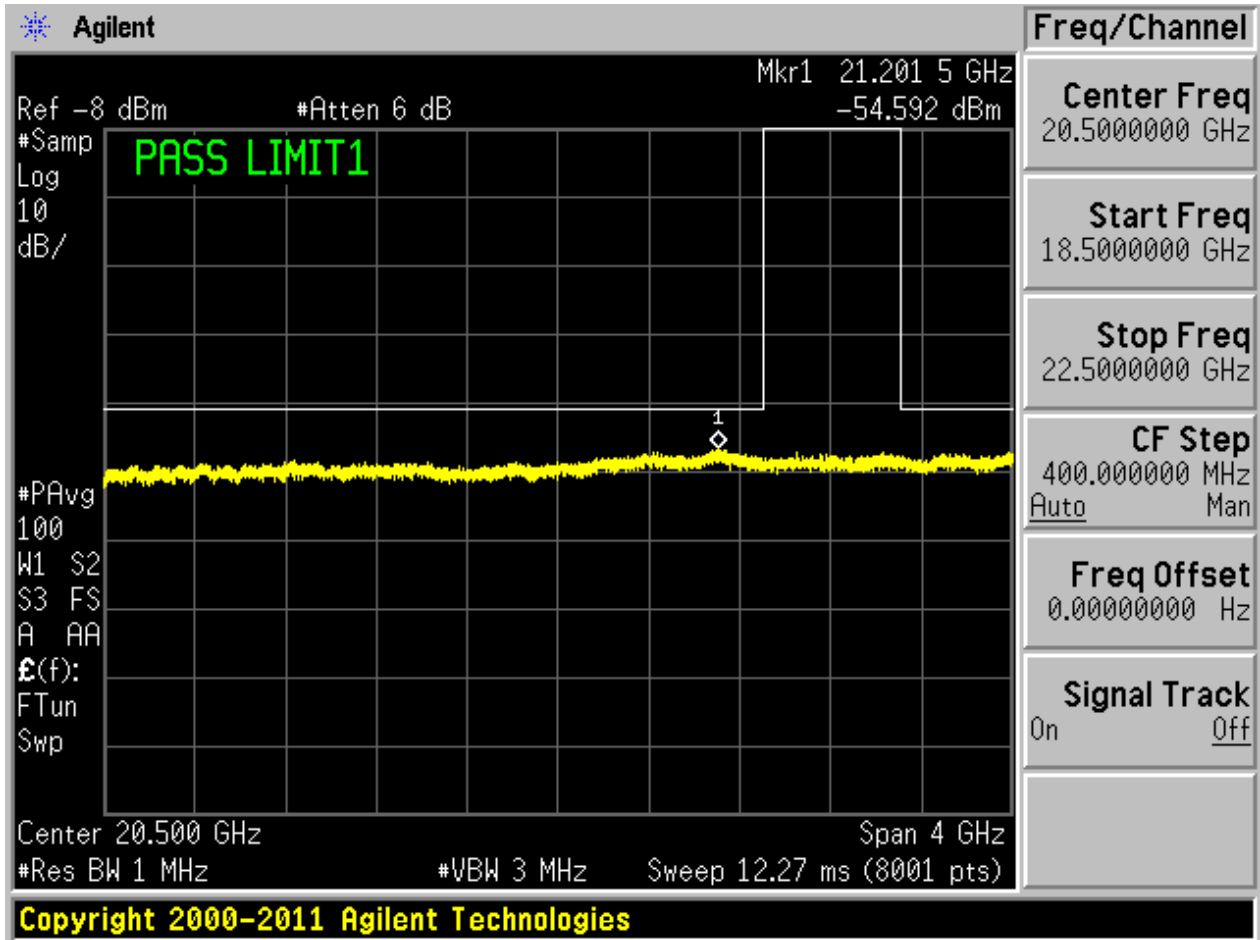


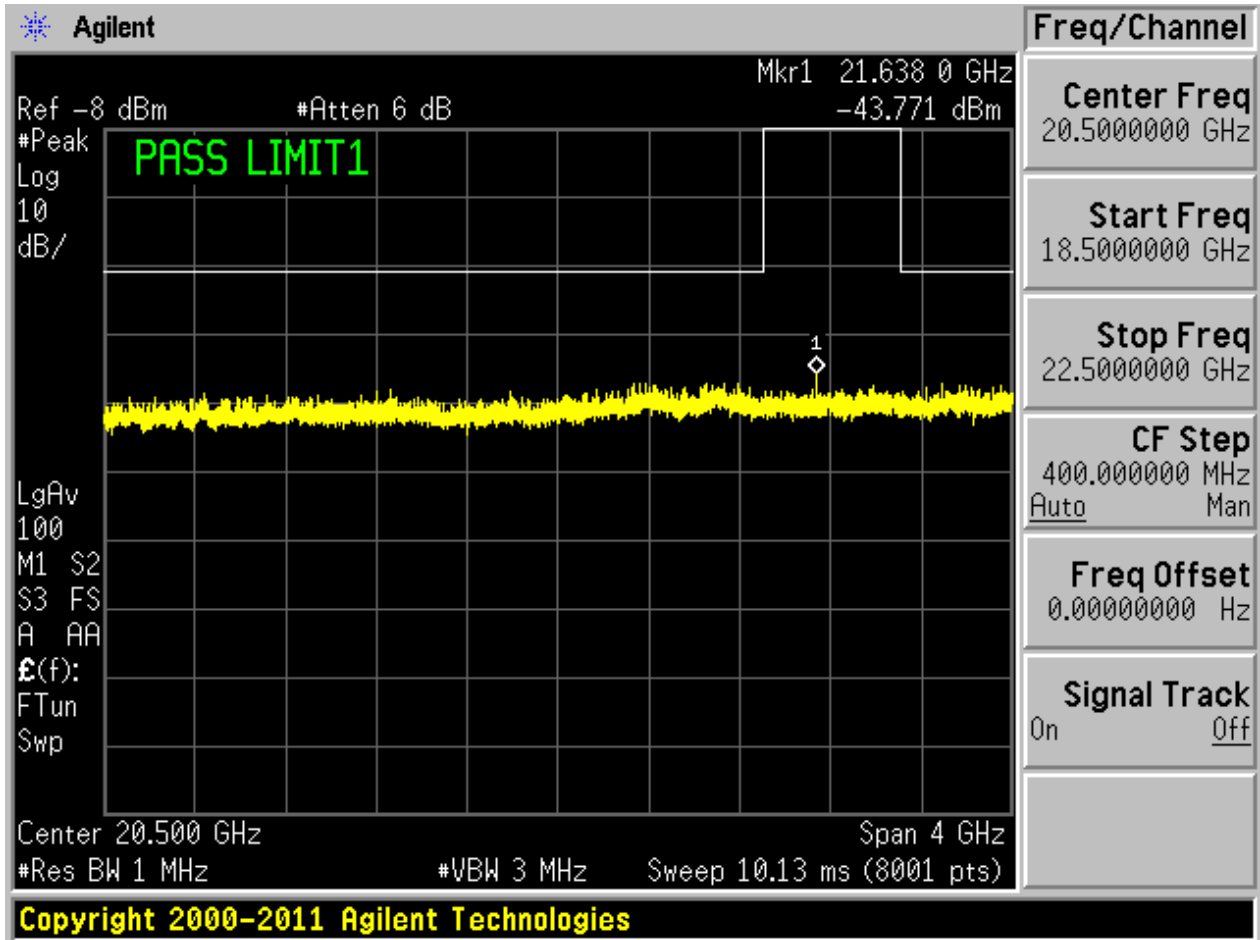


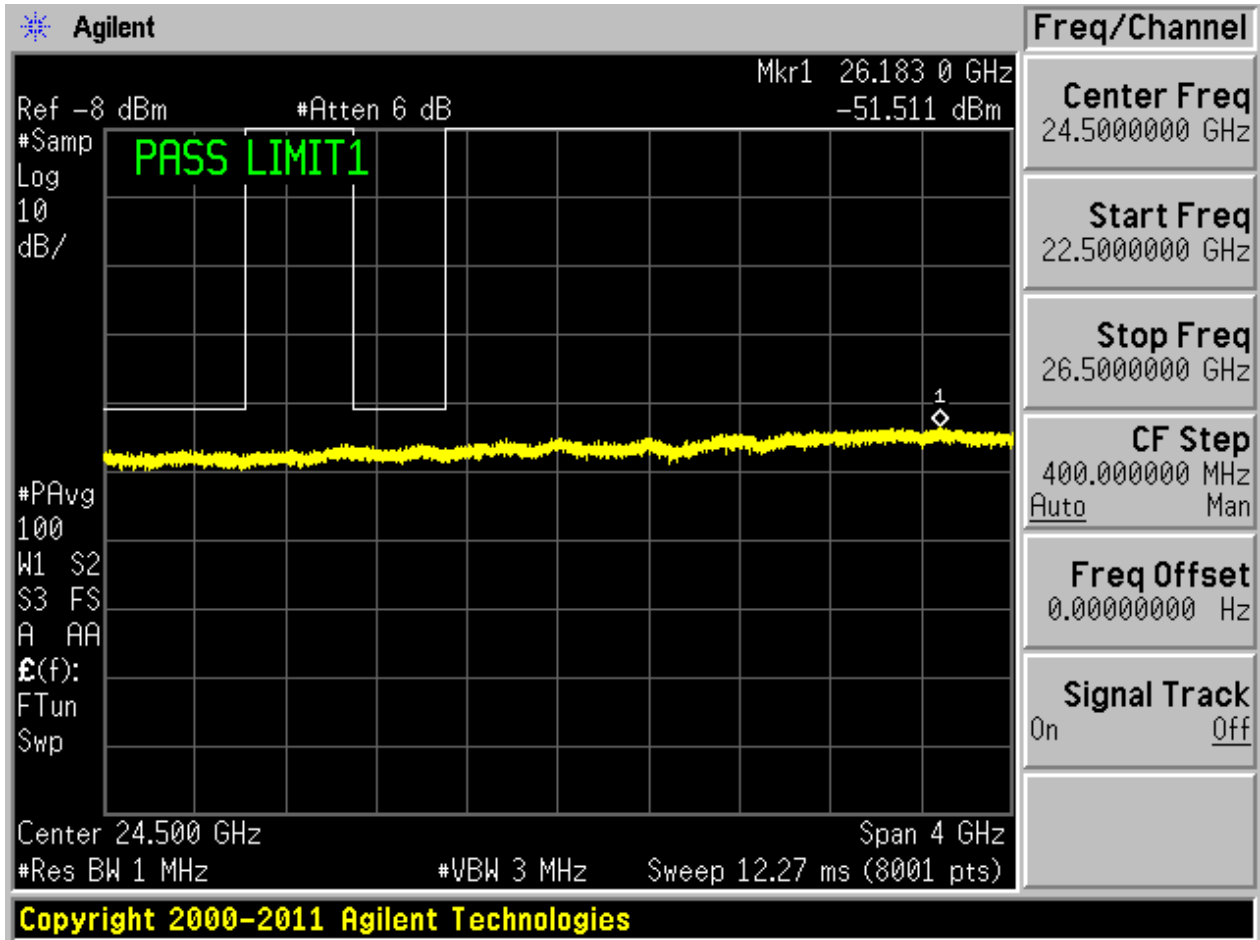
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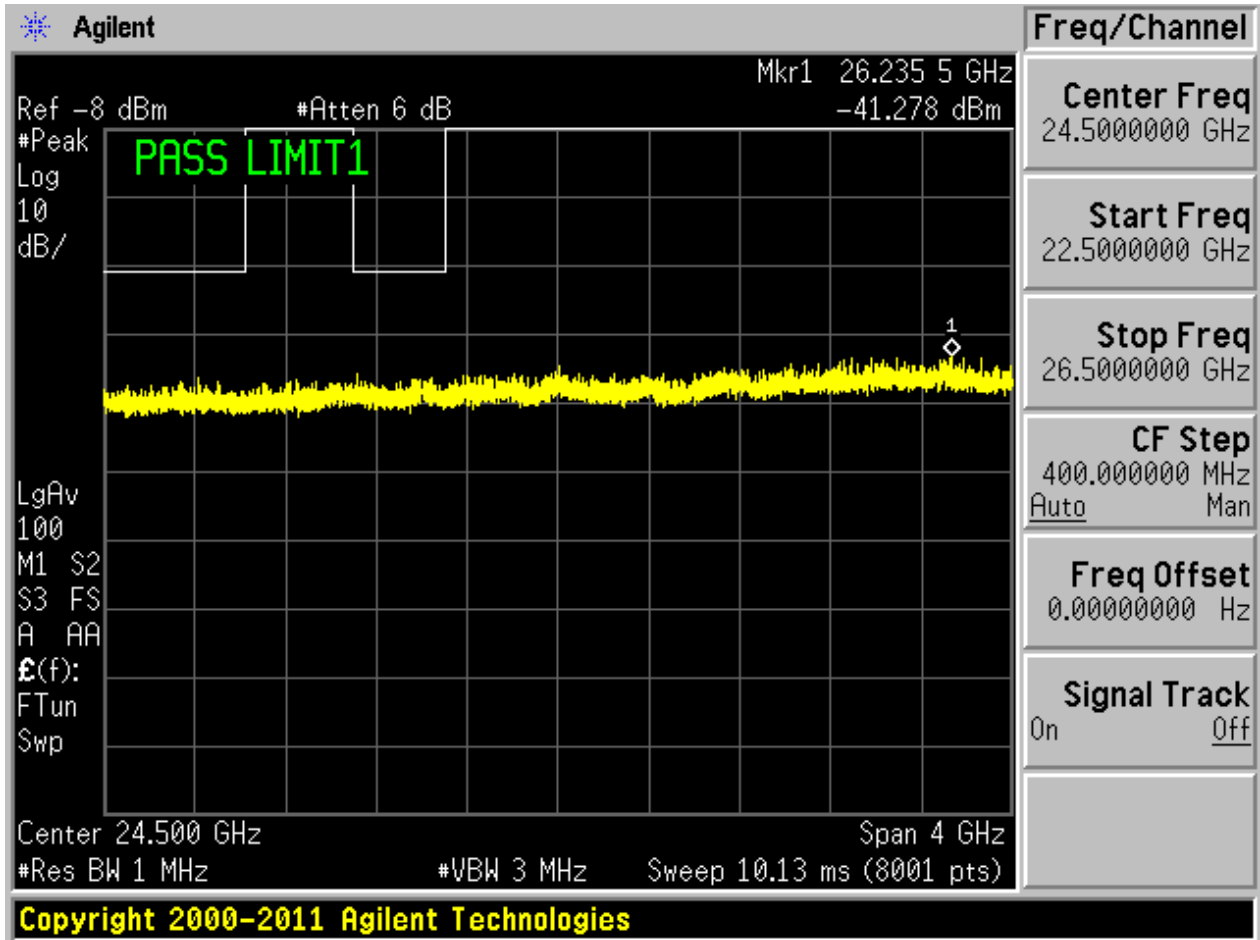




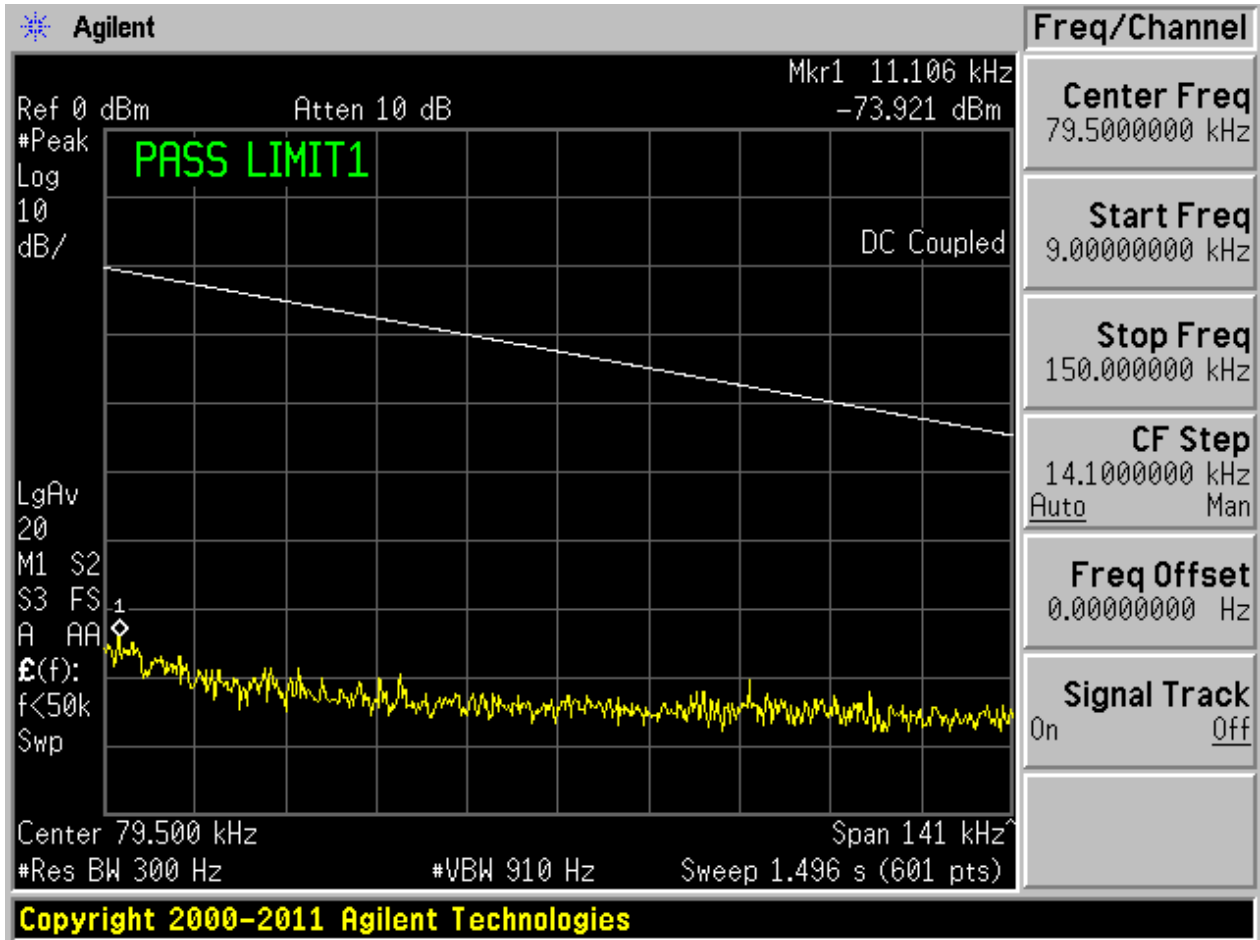


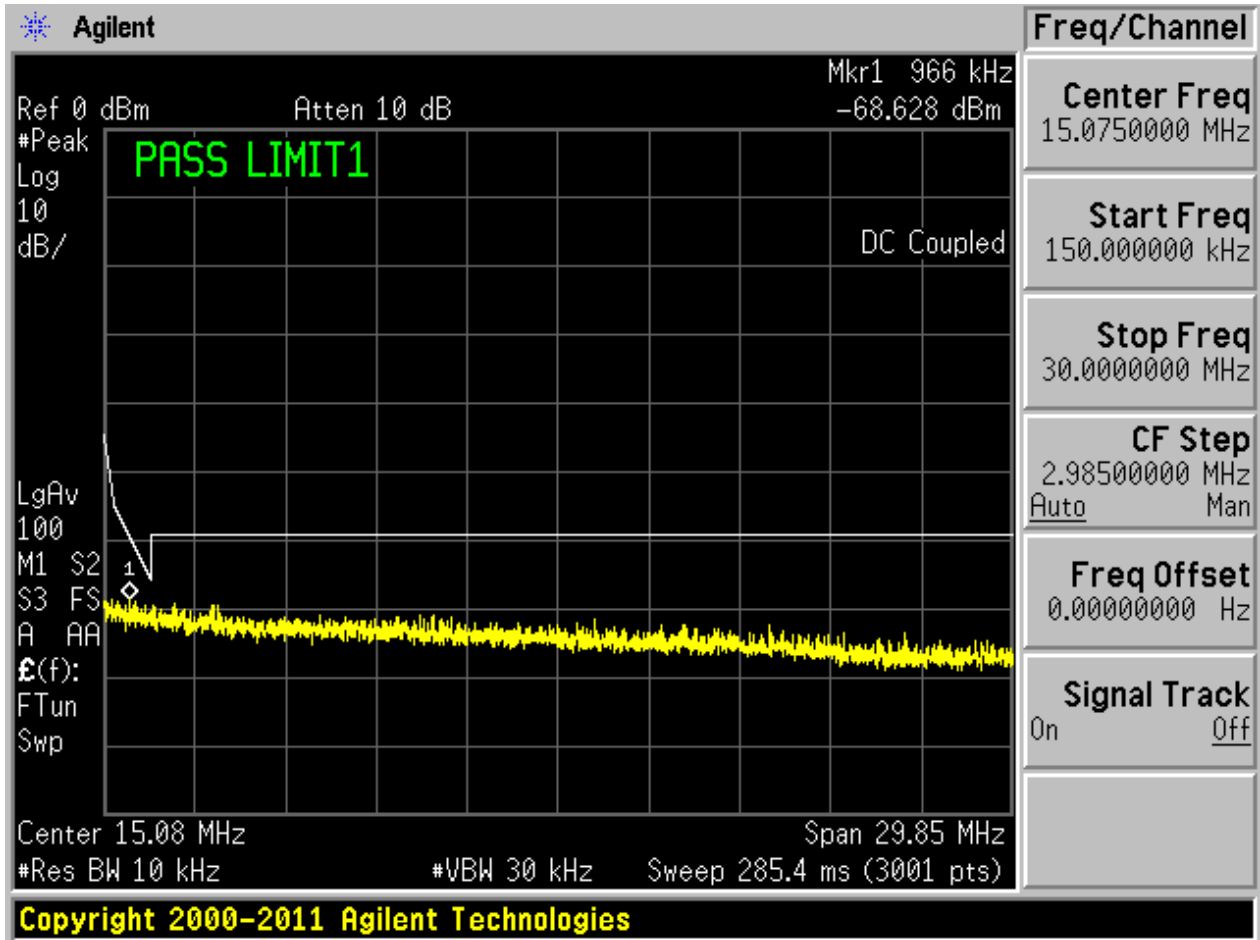


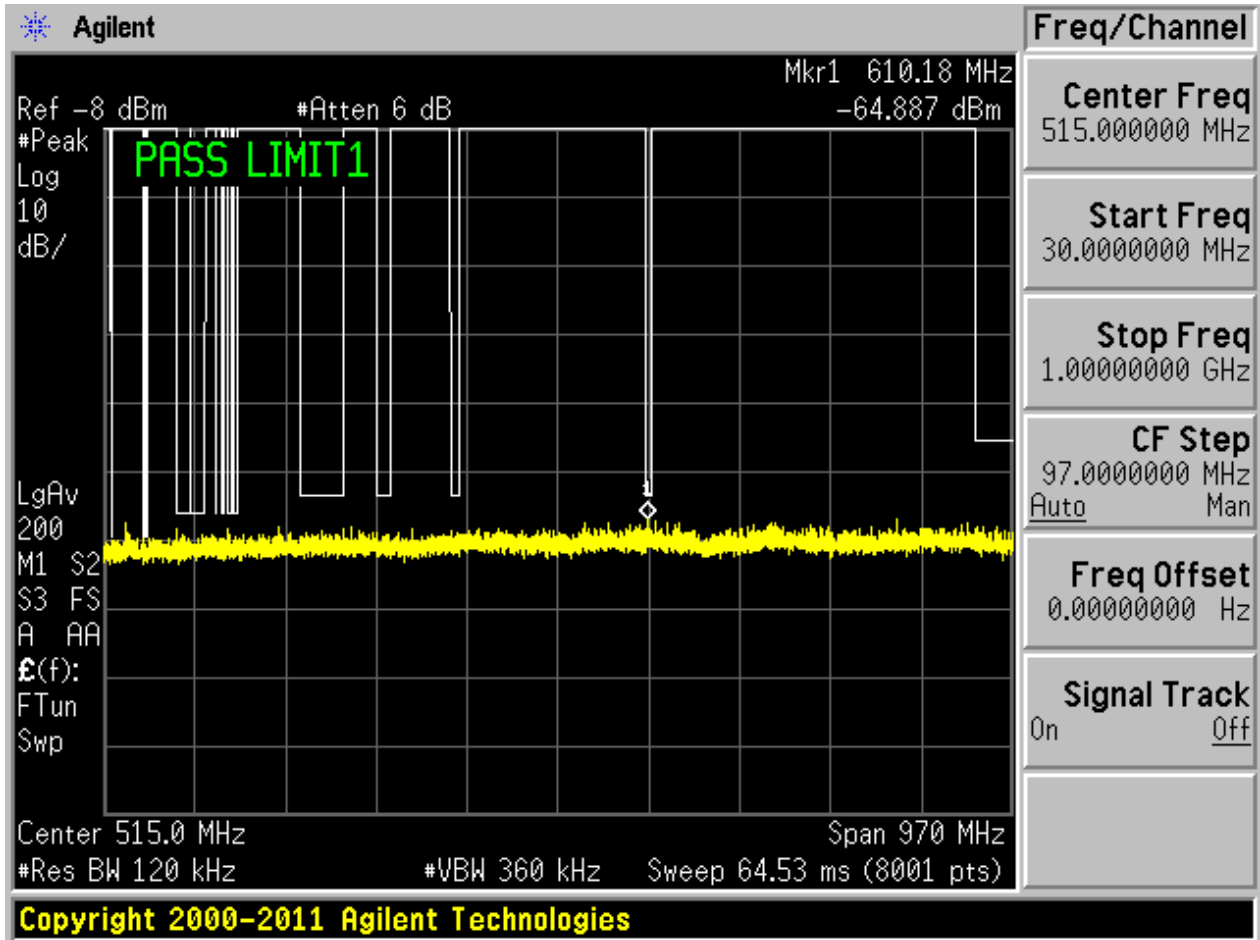


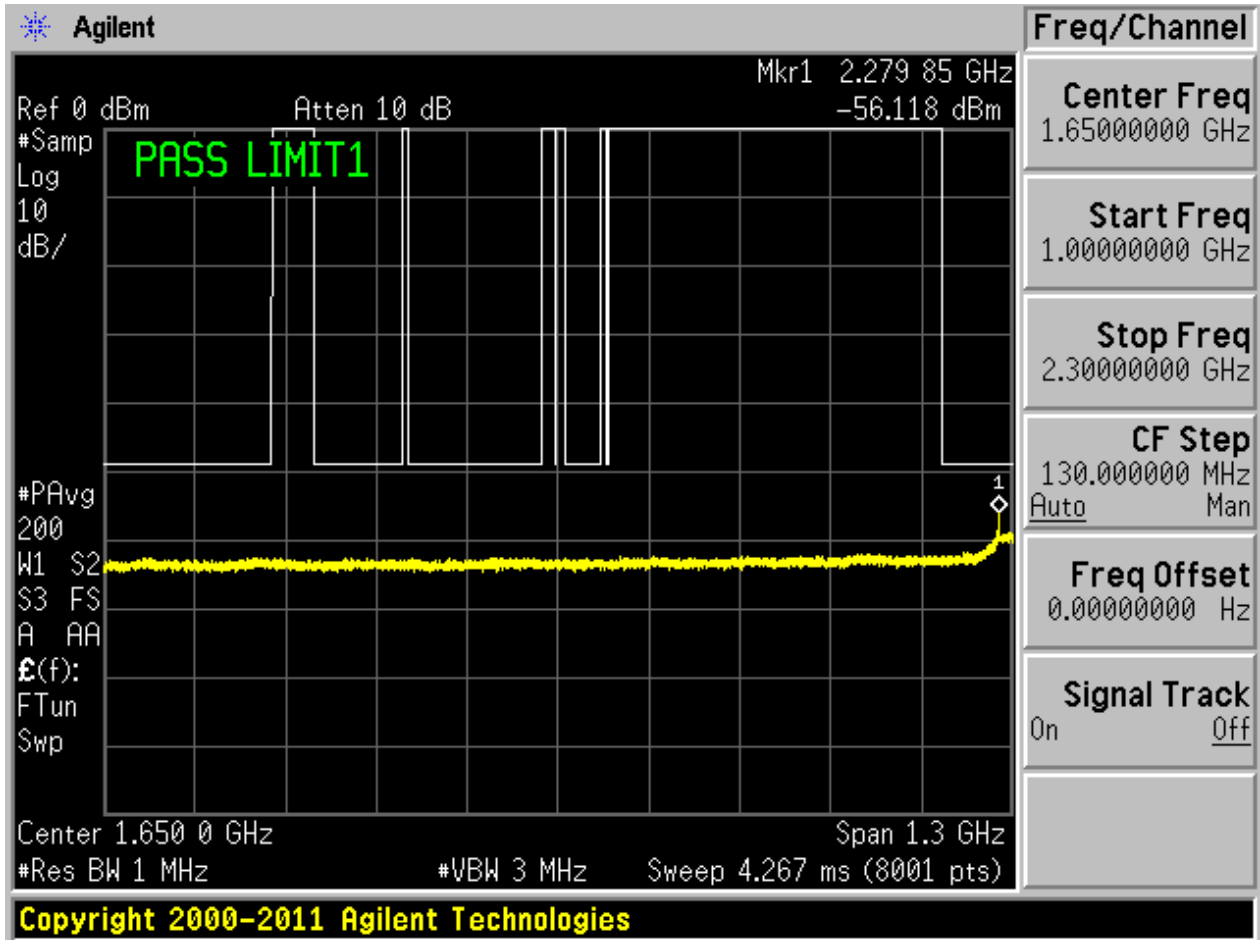


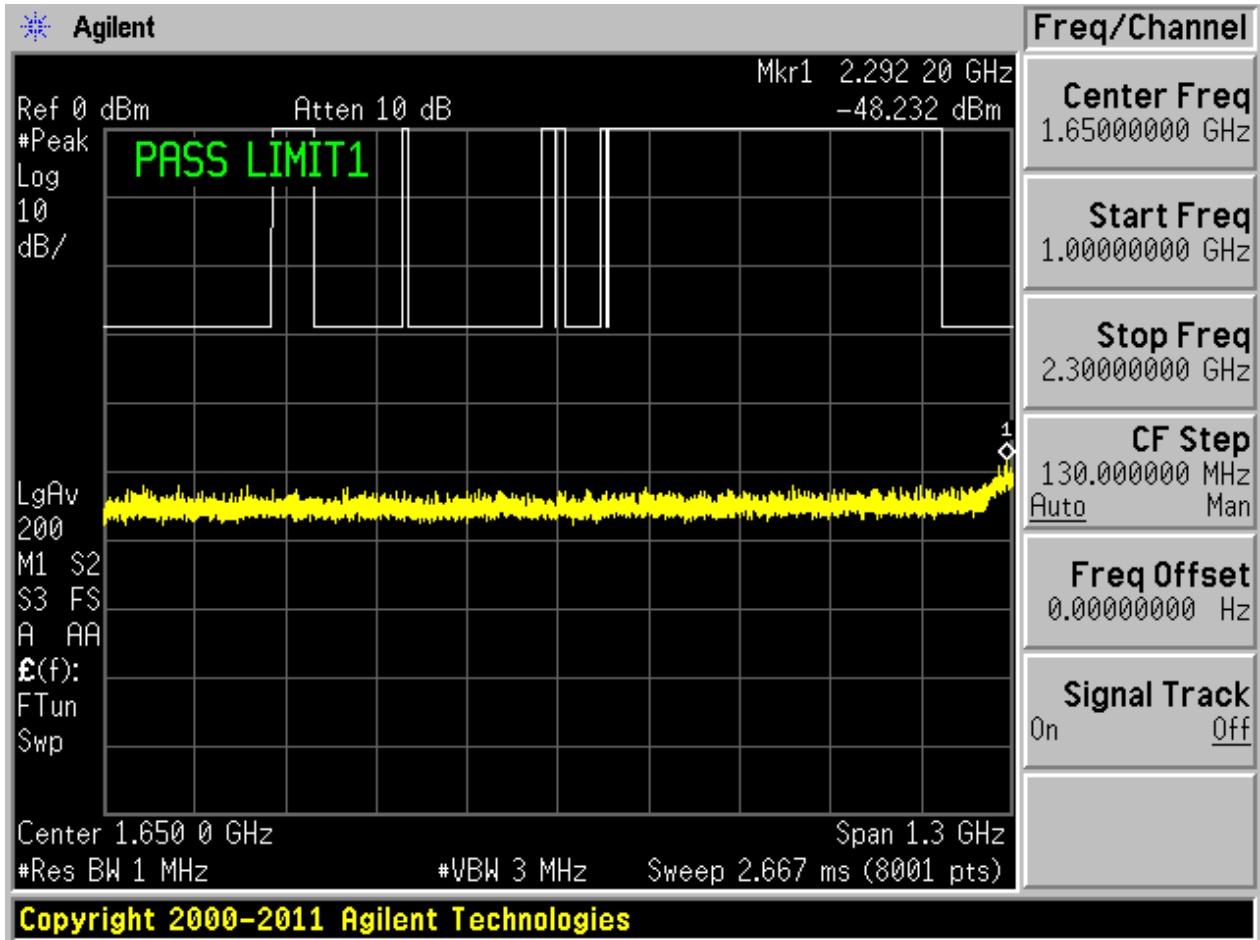
2.17.2 Ant 2 (Trace#2)

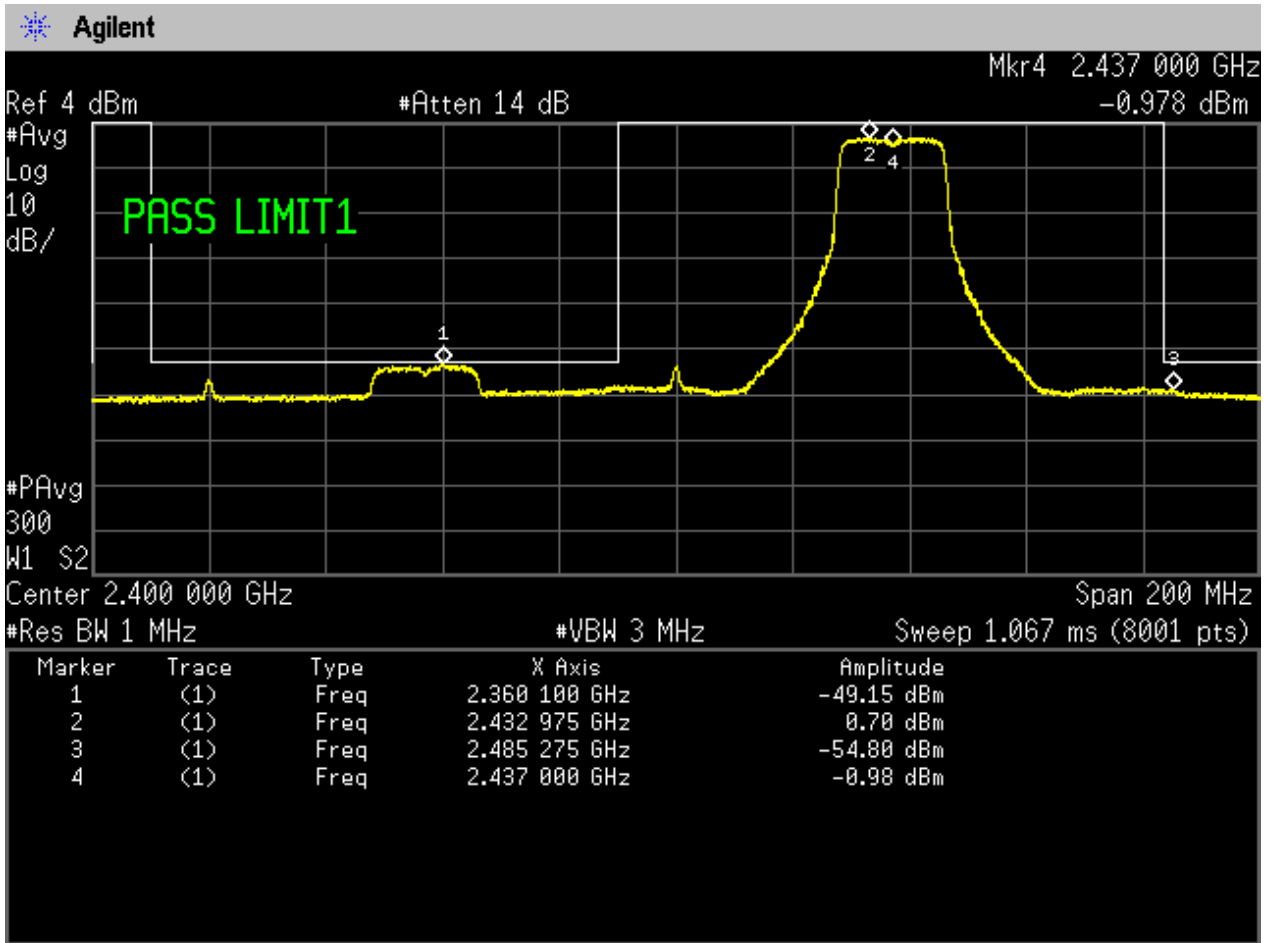


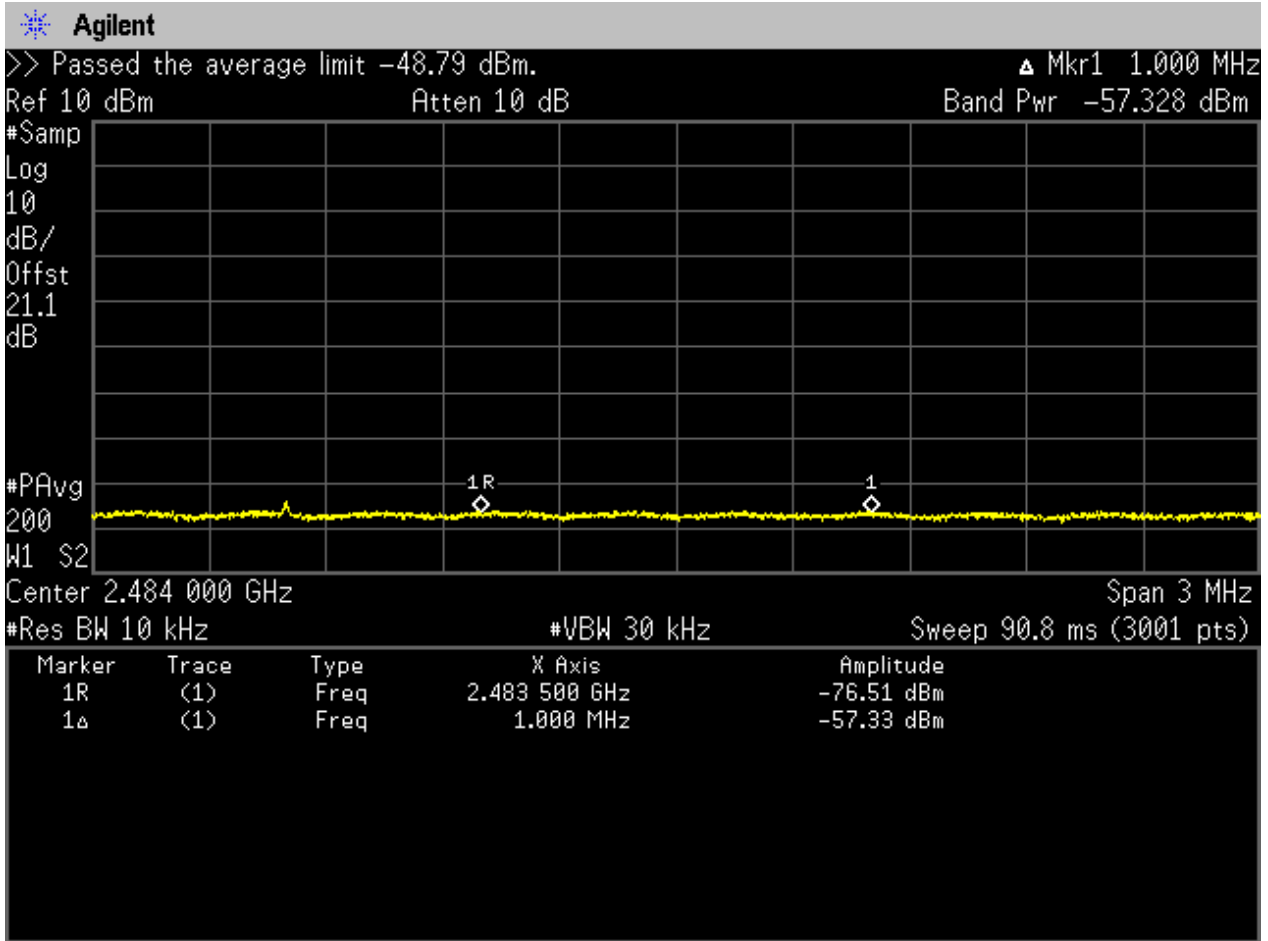


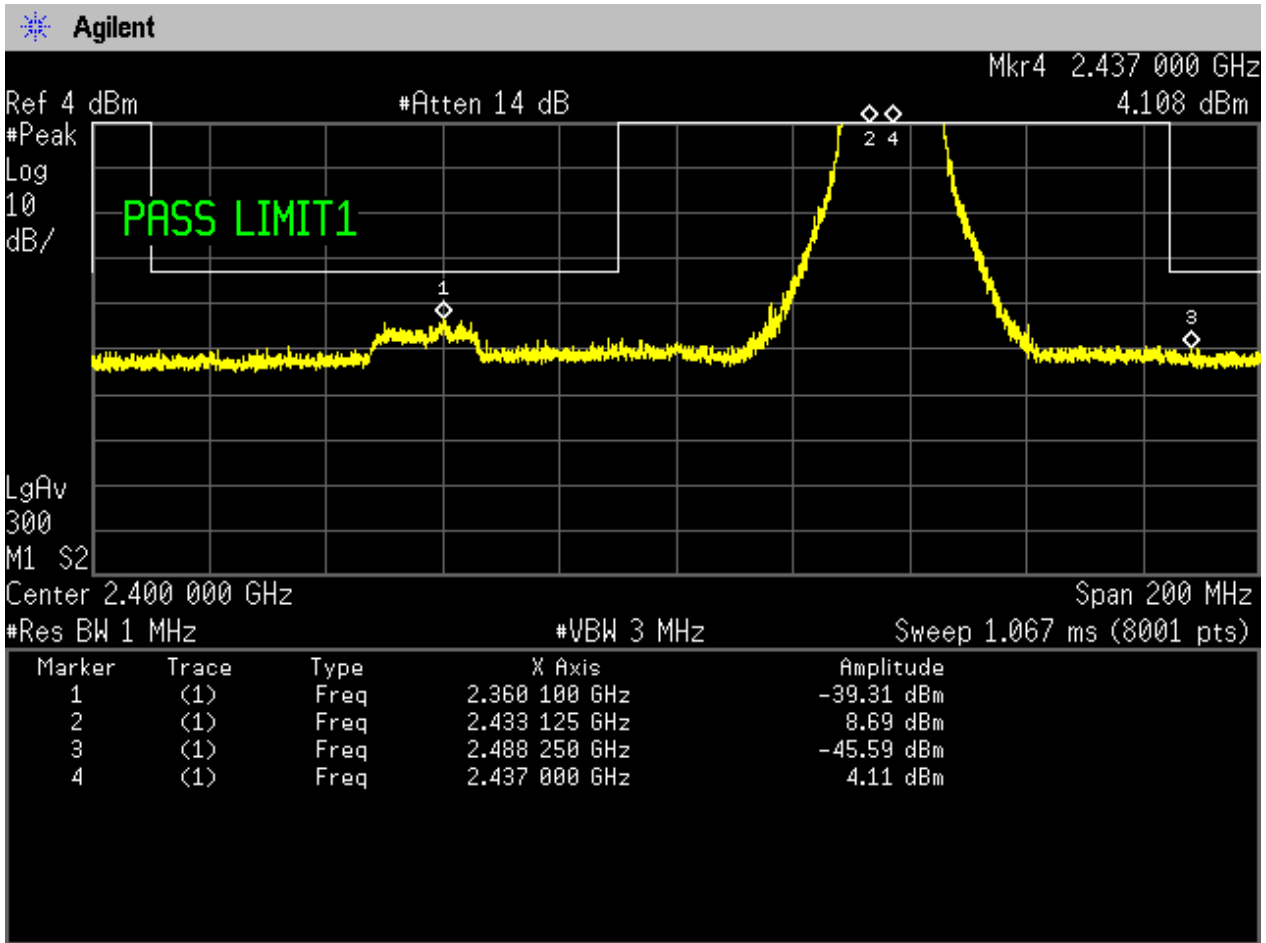


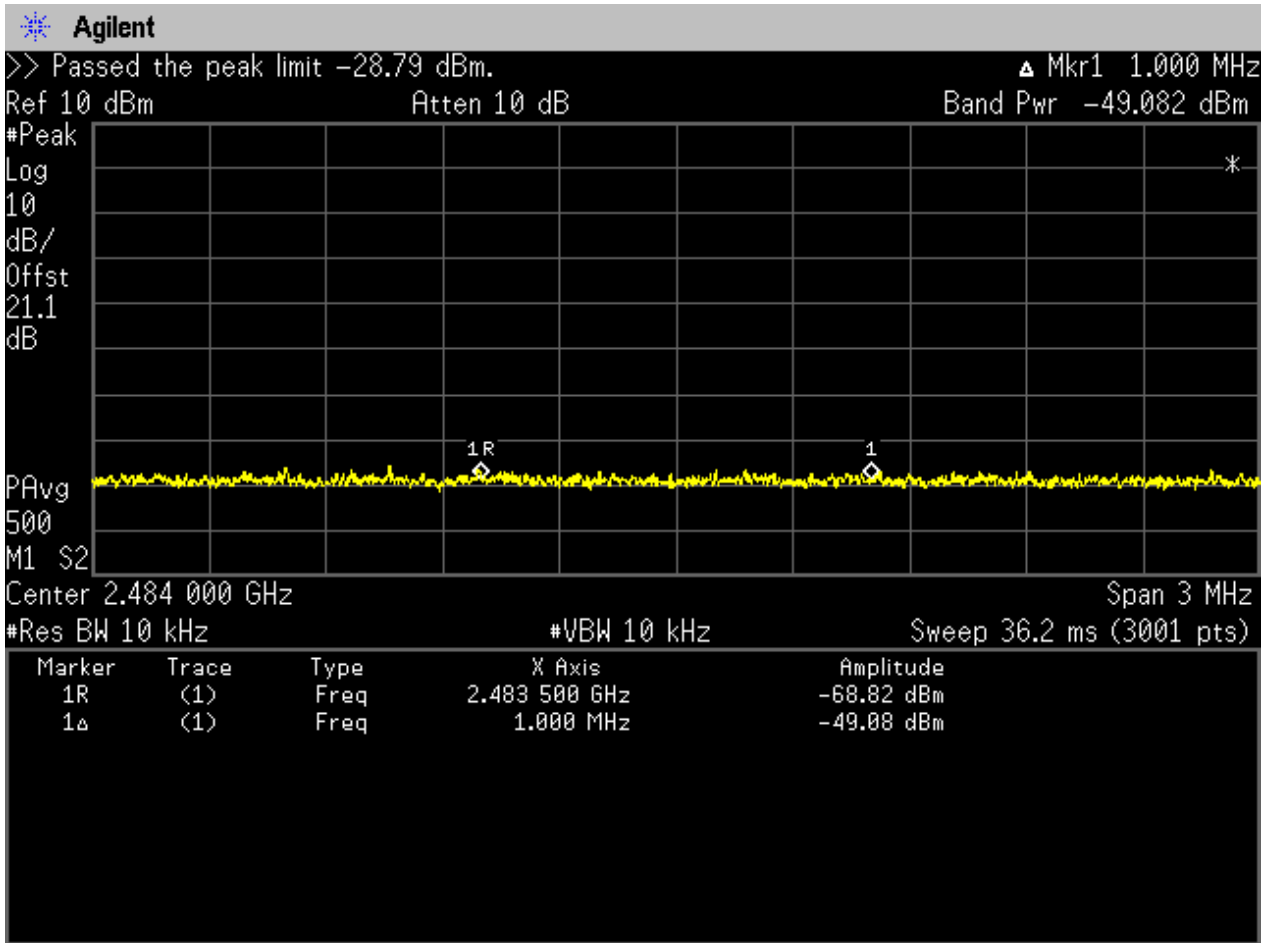


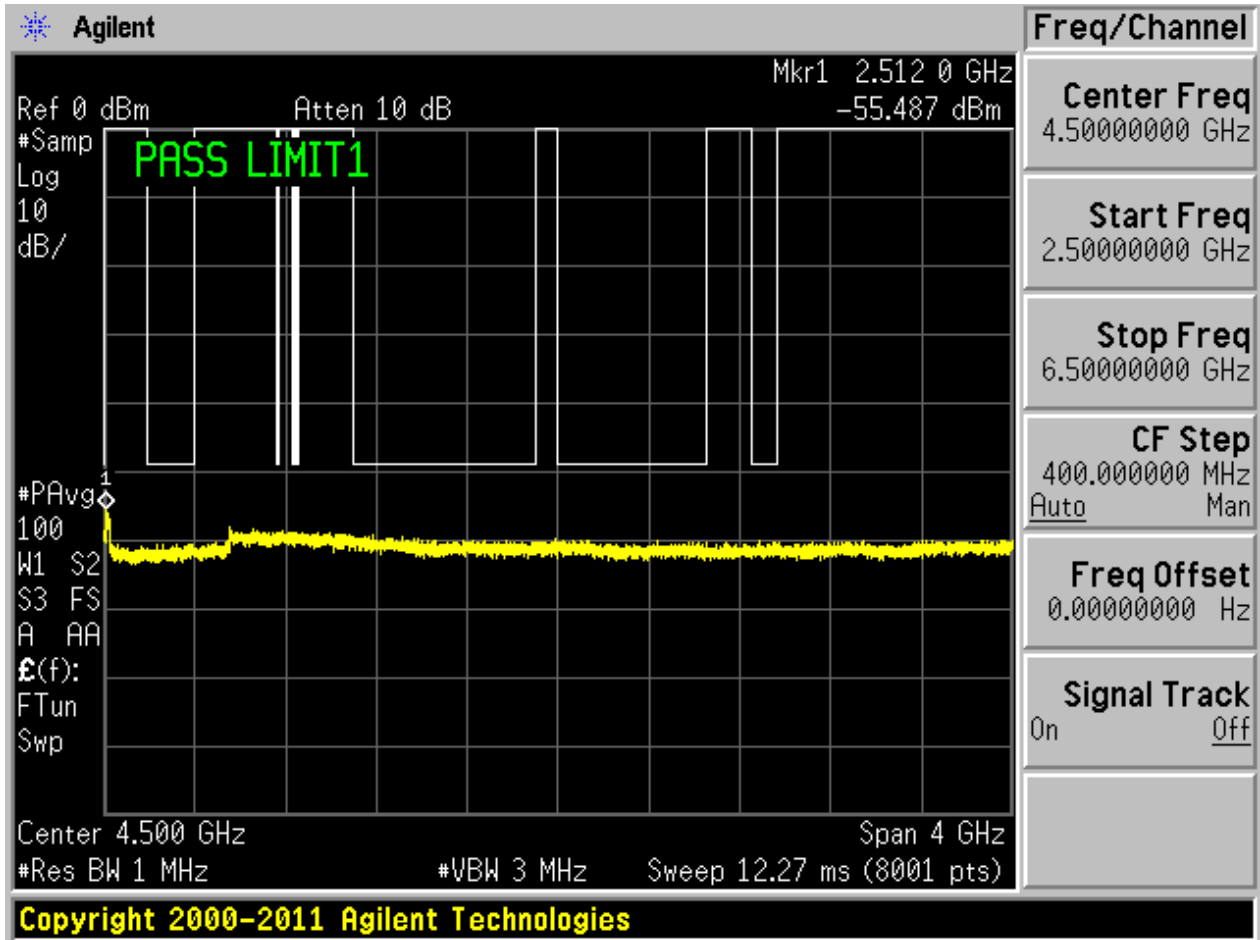


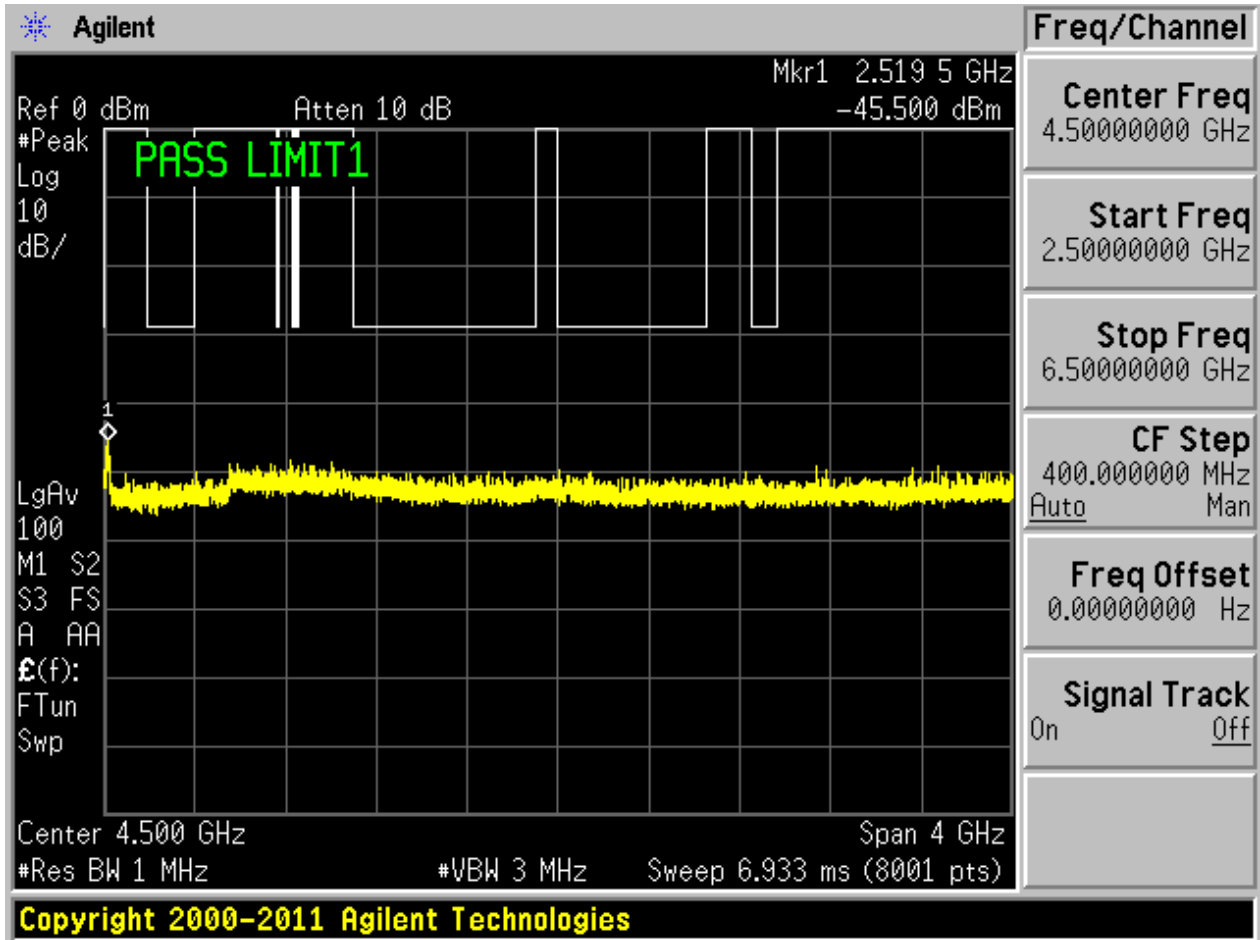


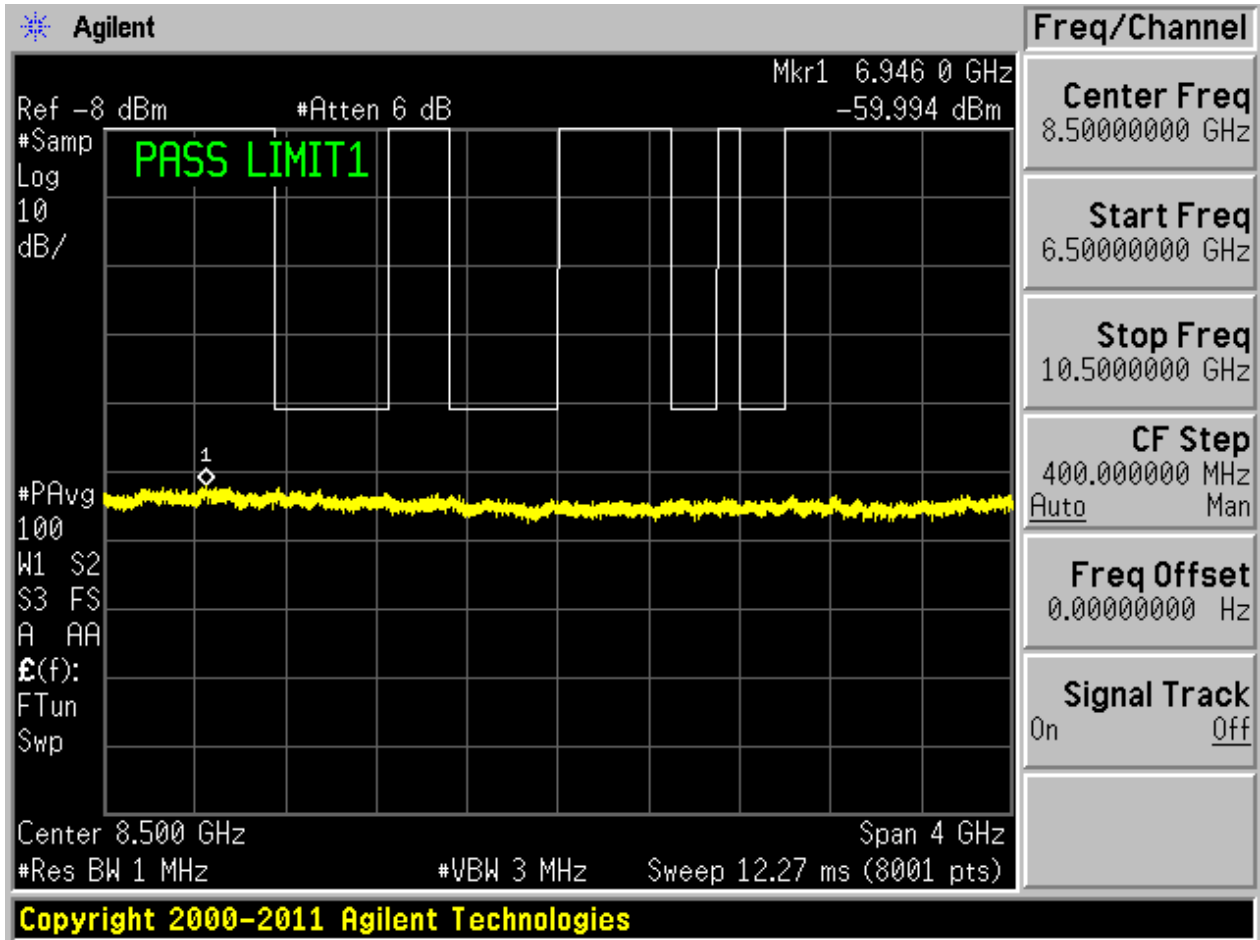


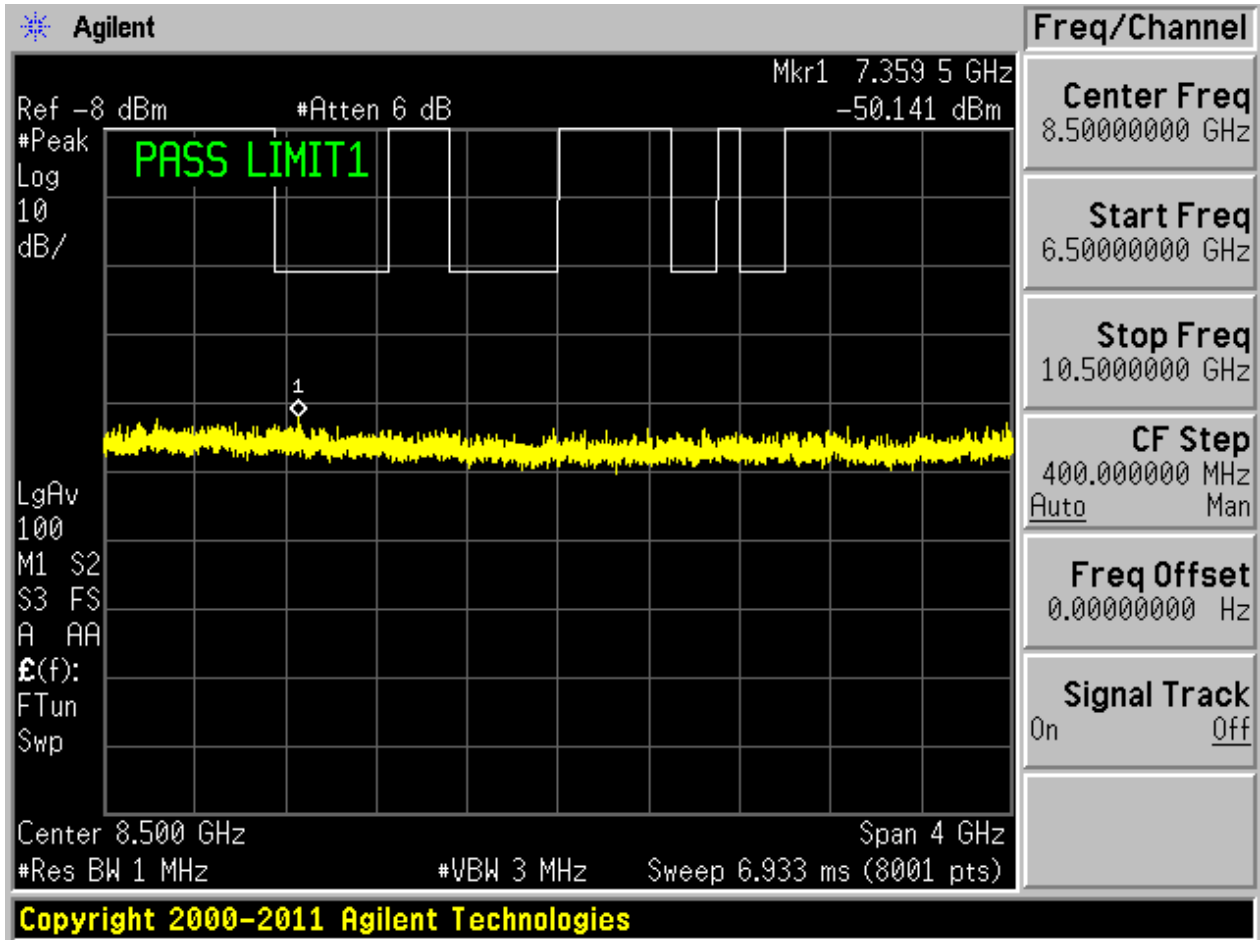


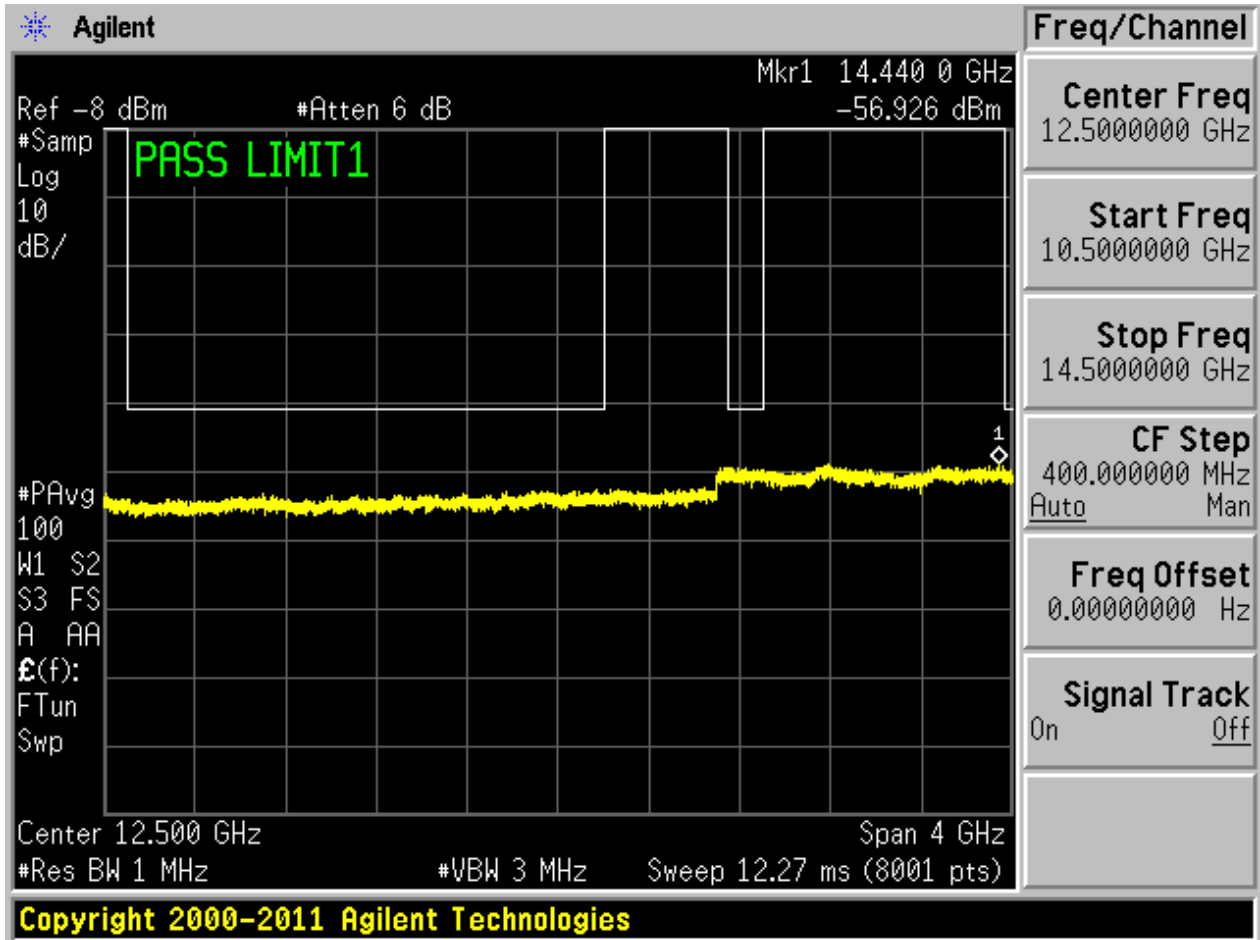


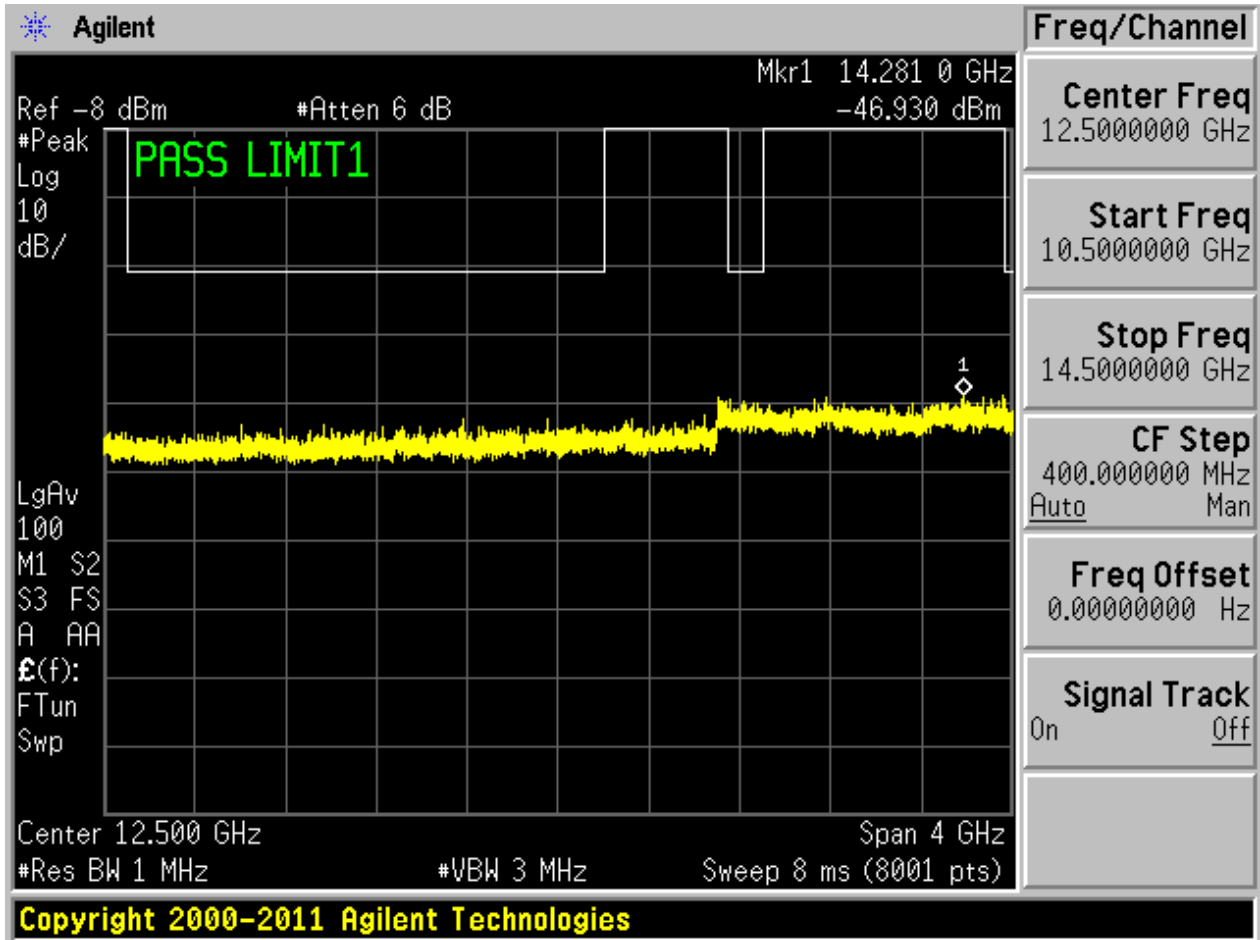


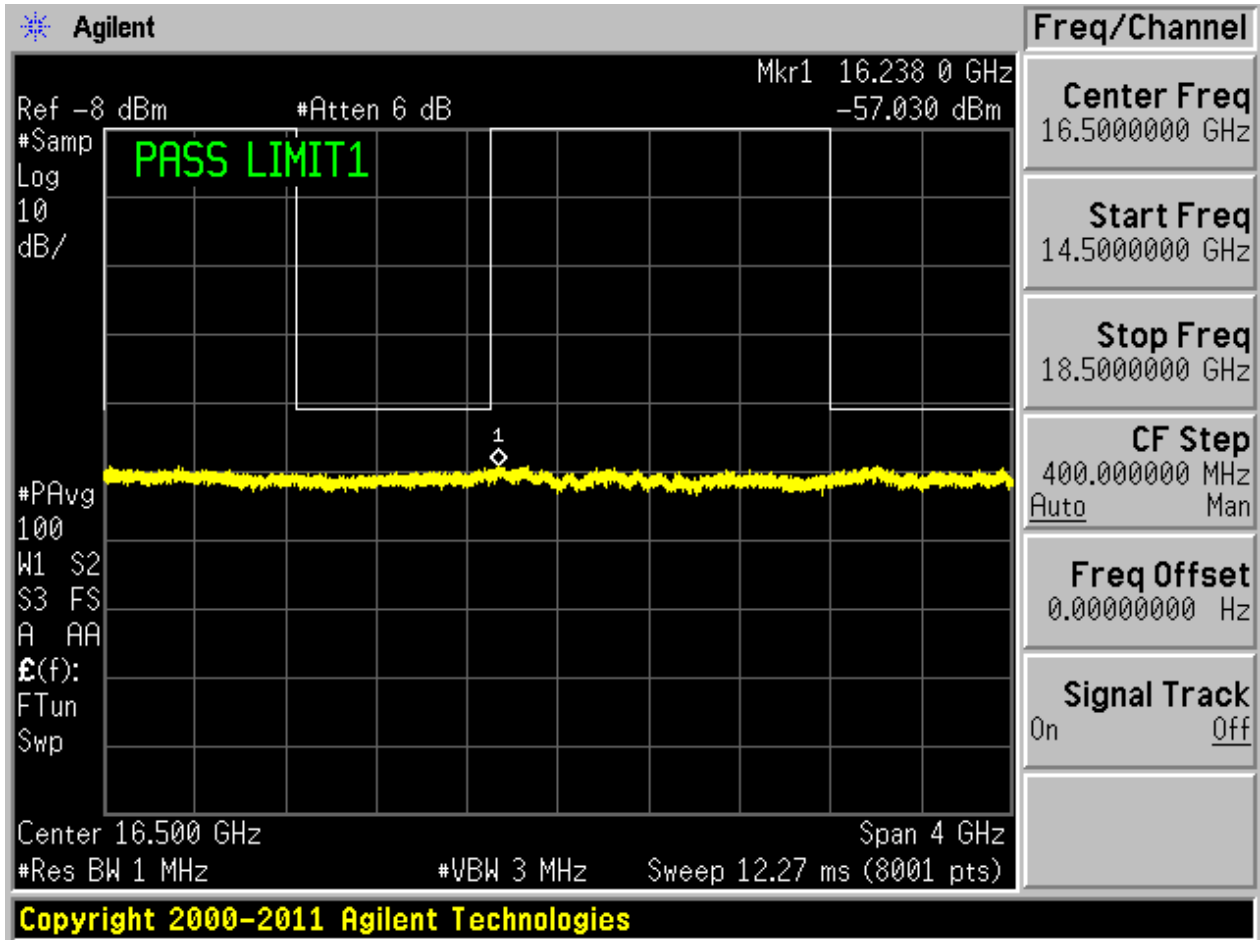


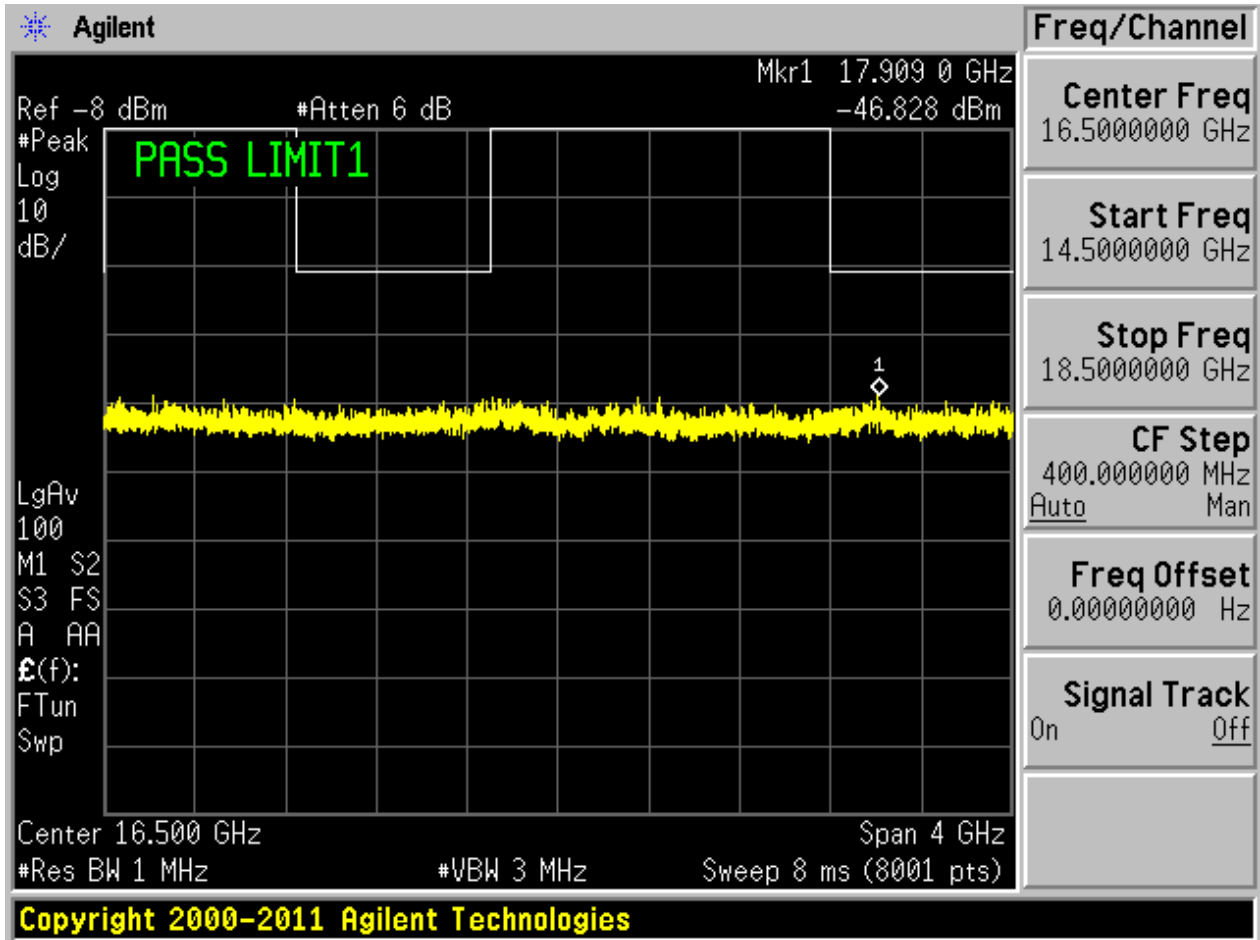


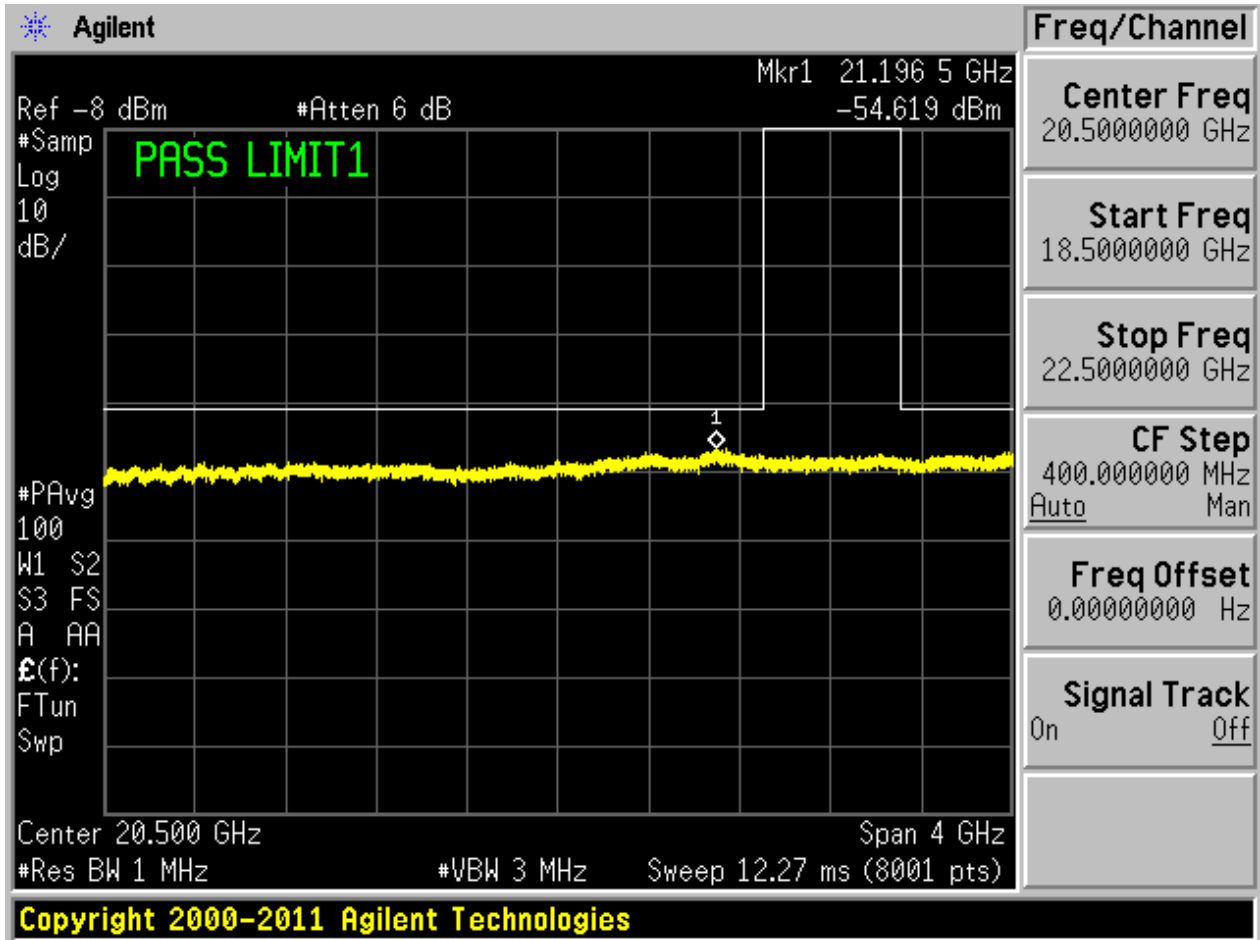


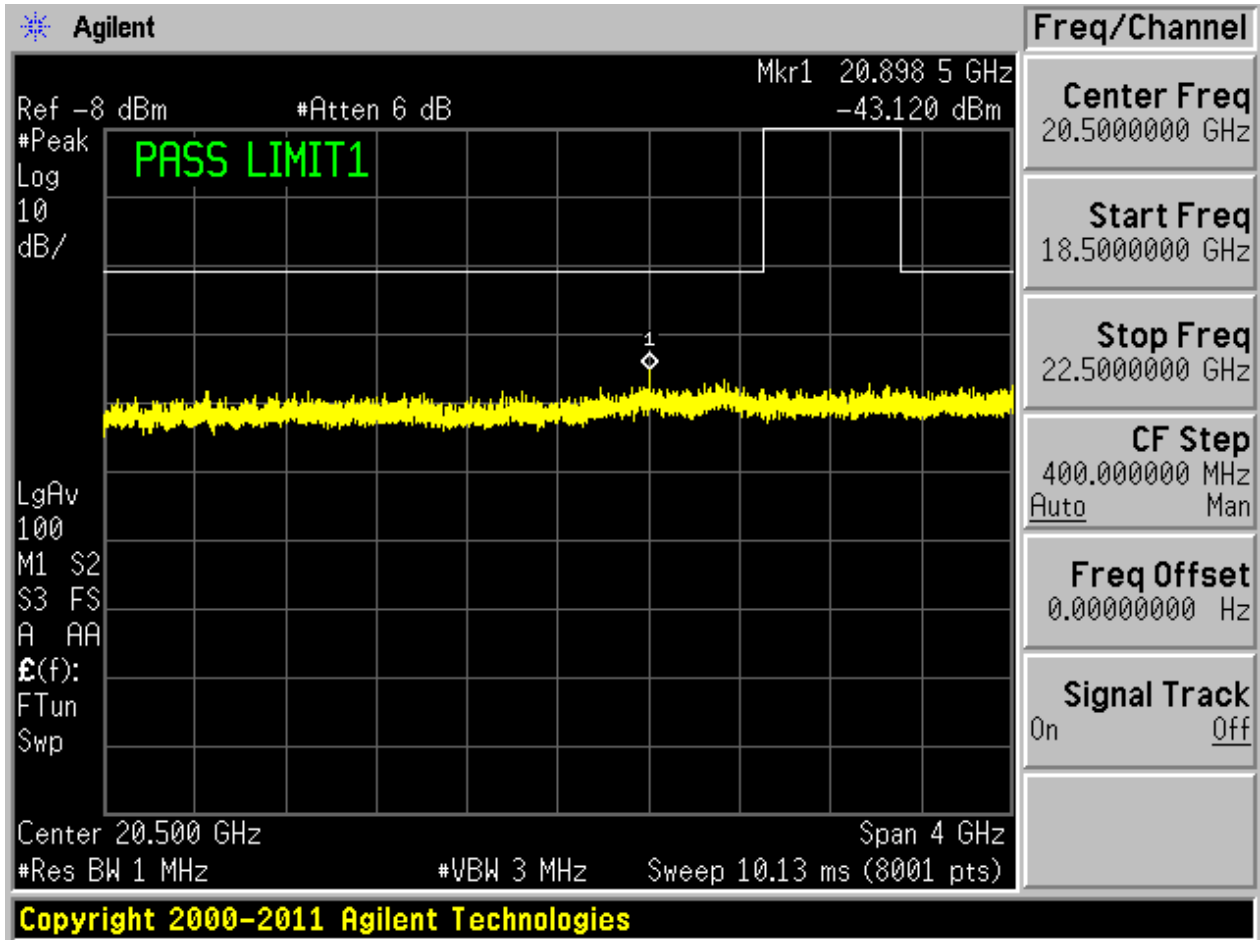


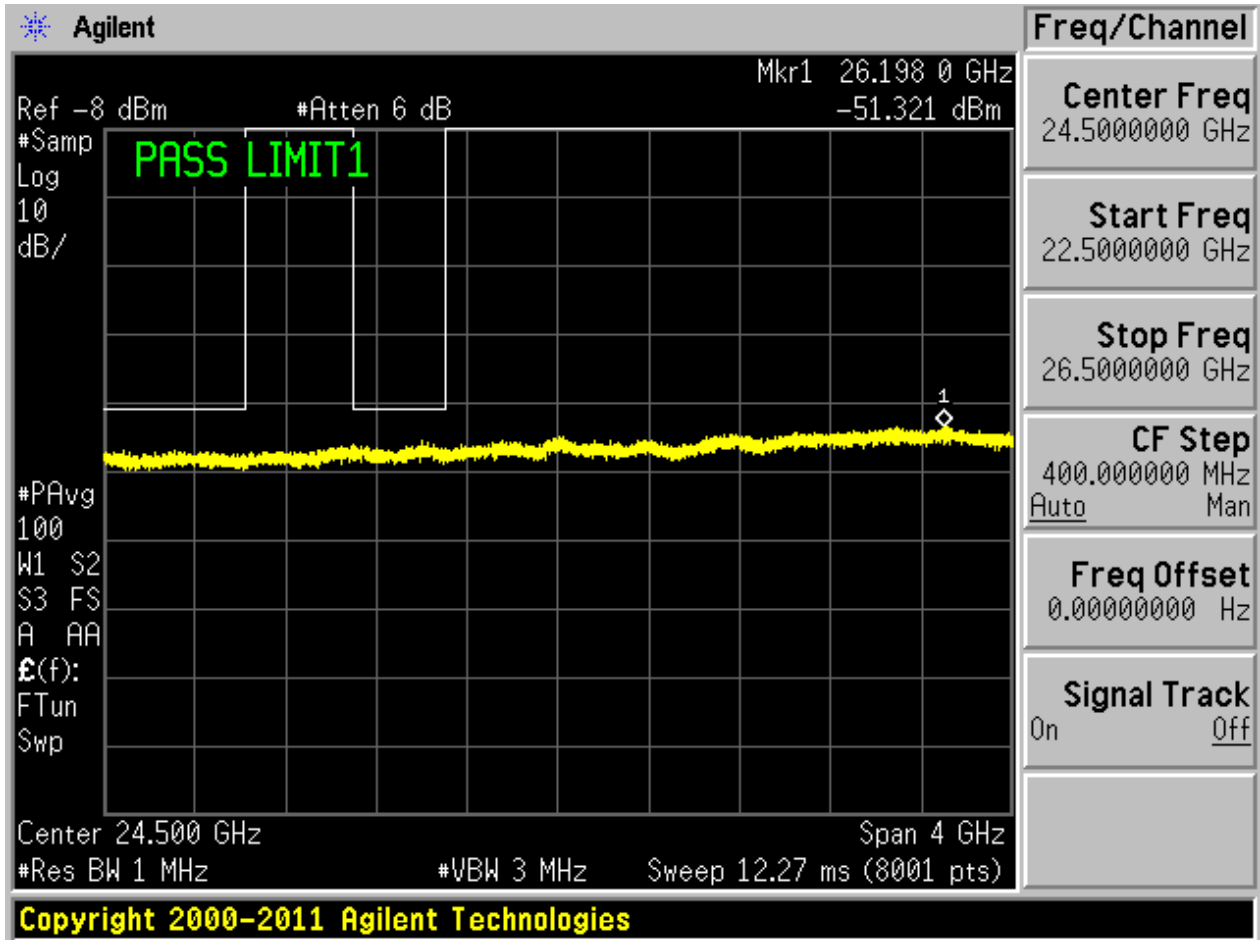


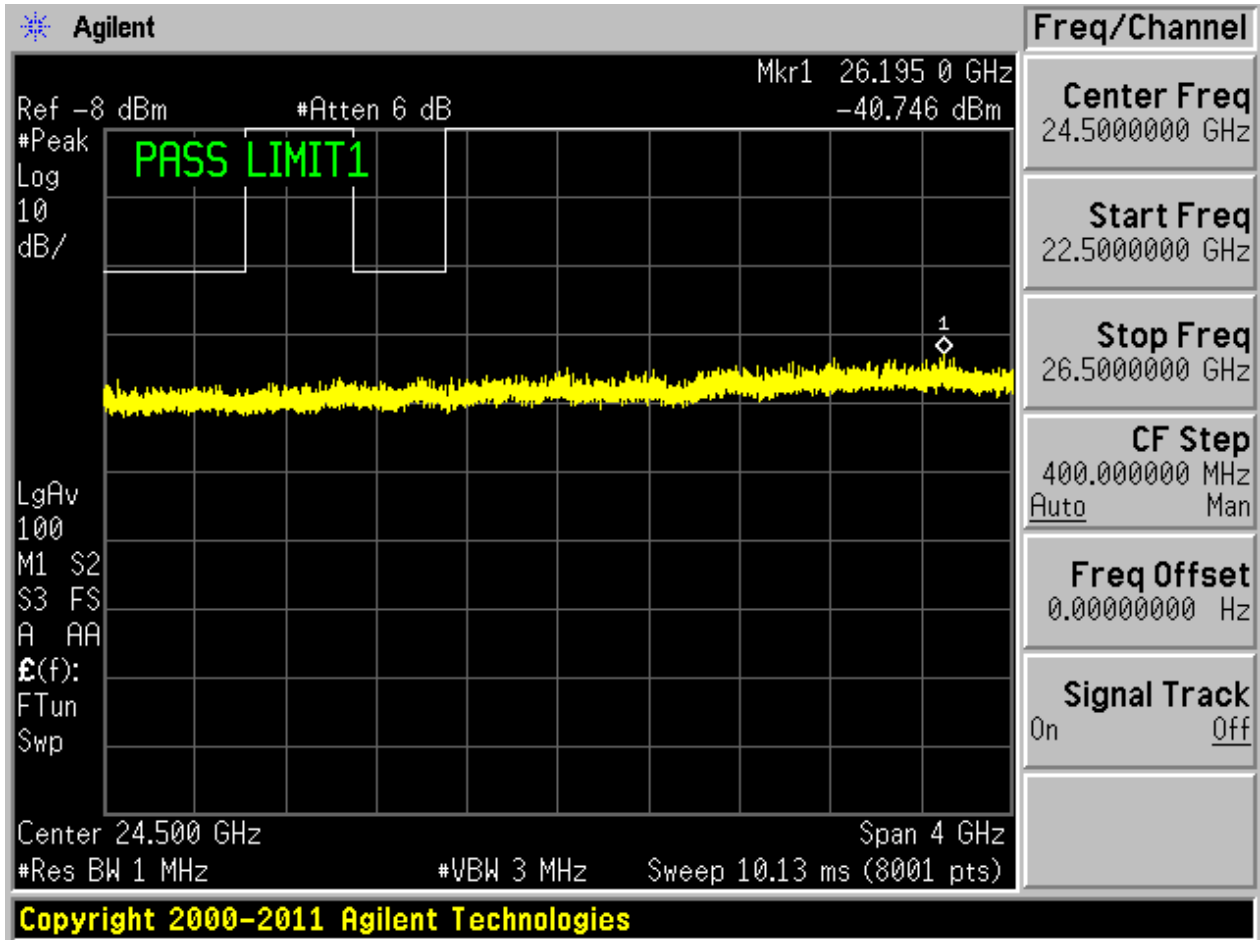










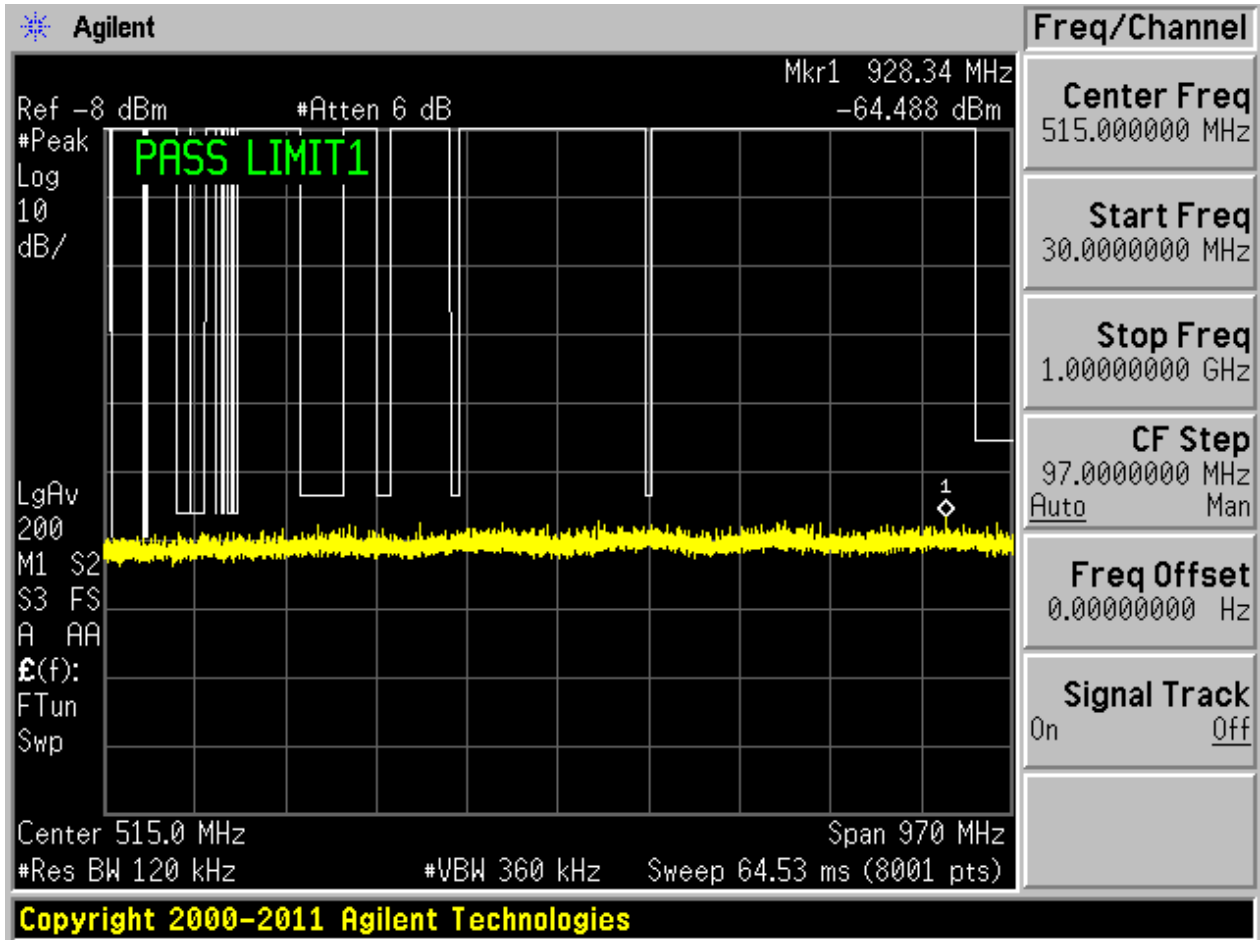


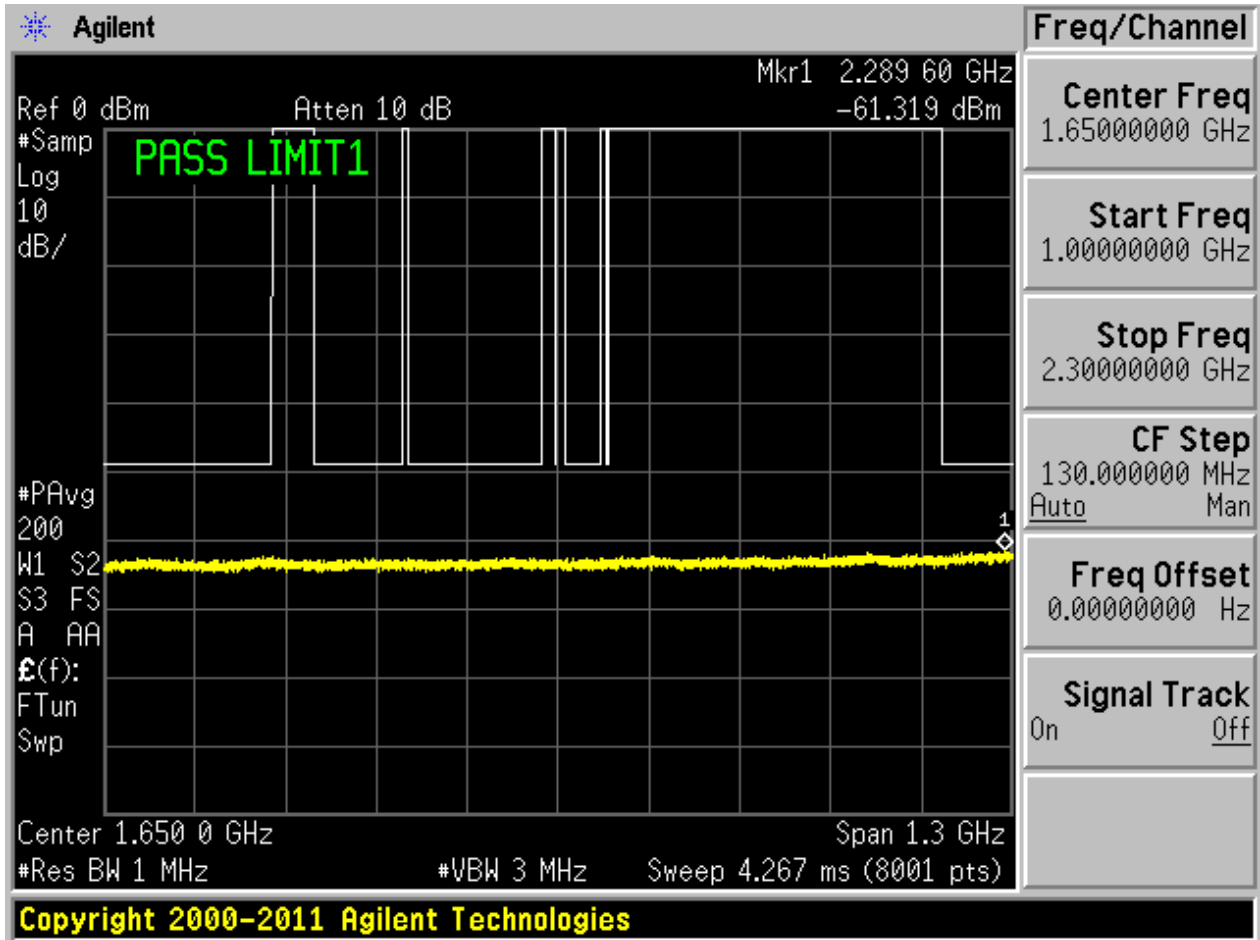
2.17.3 Trace#sum (if needed for final judgment)

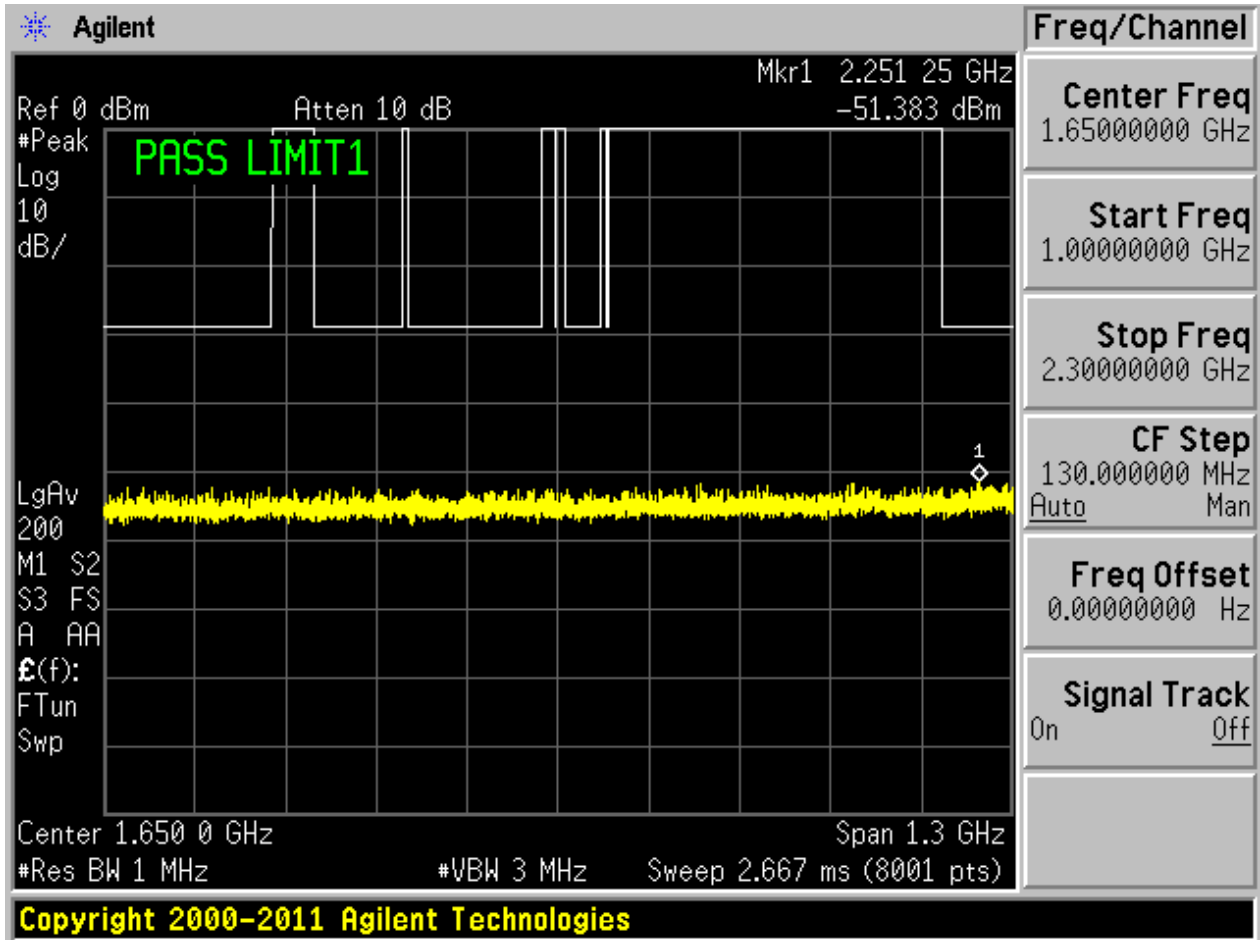
(not applicable)

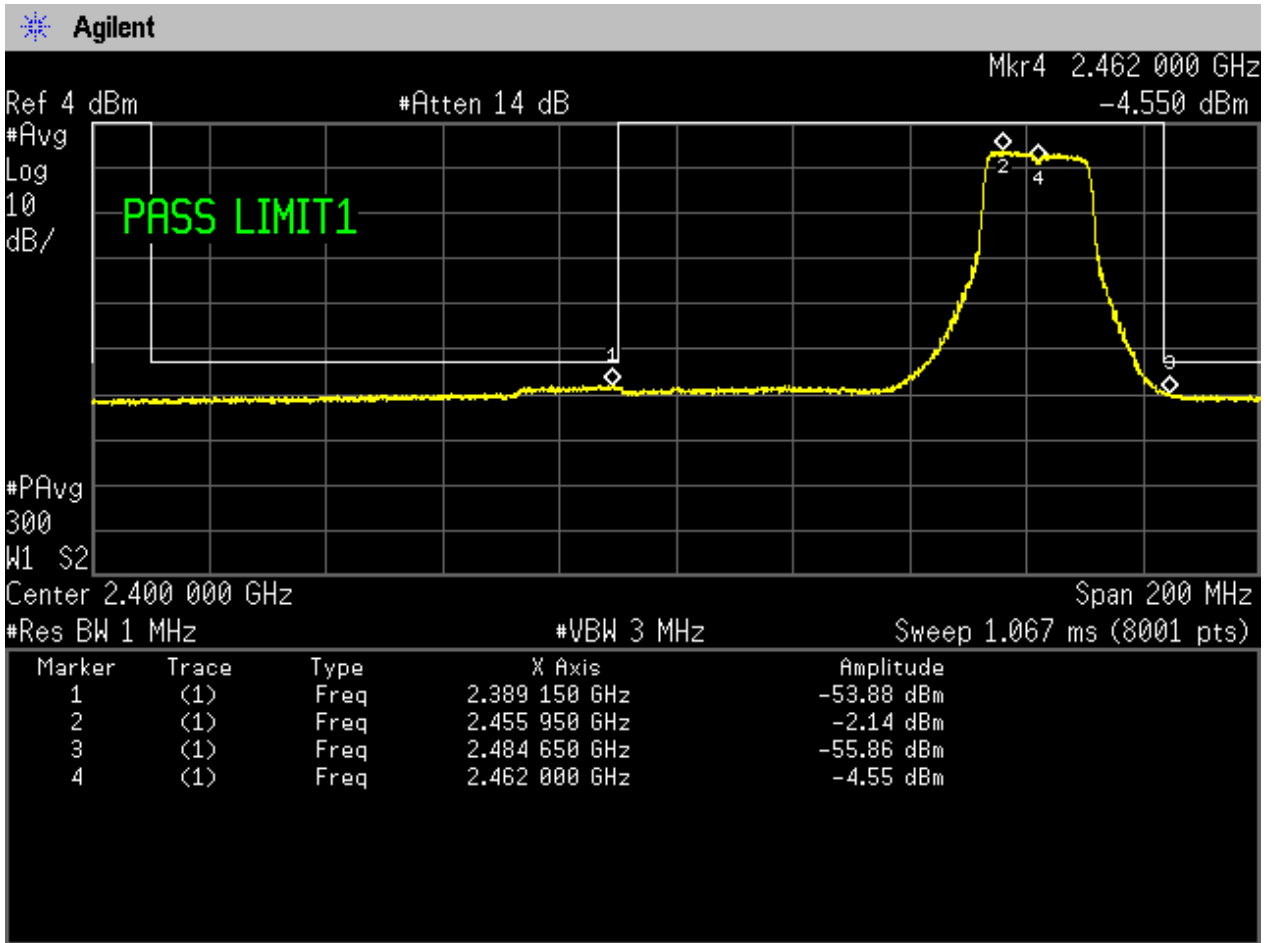
2.1811N20m/8_T@1+2

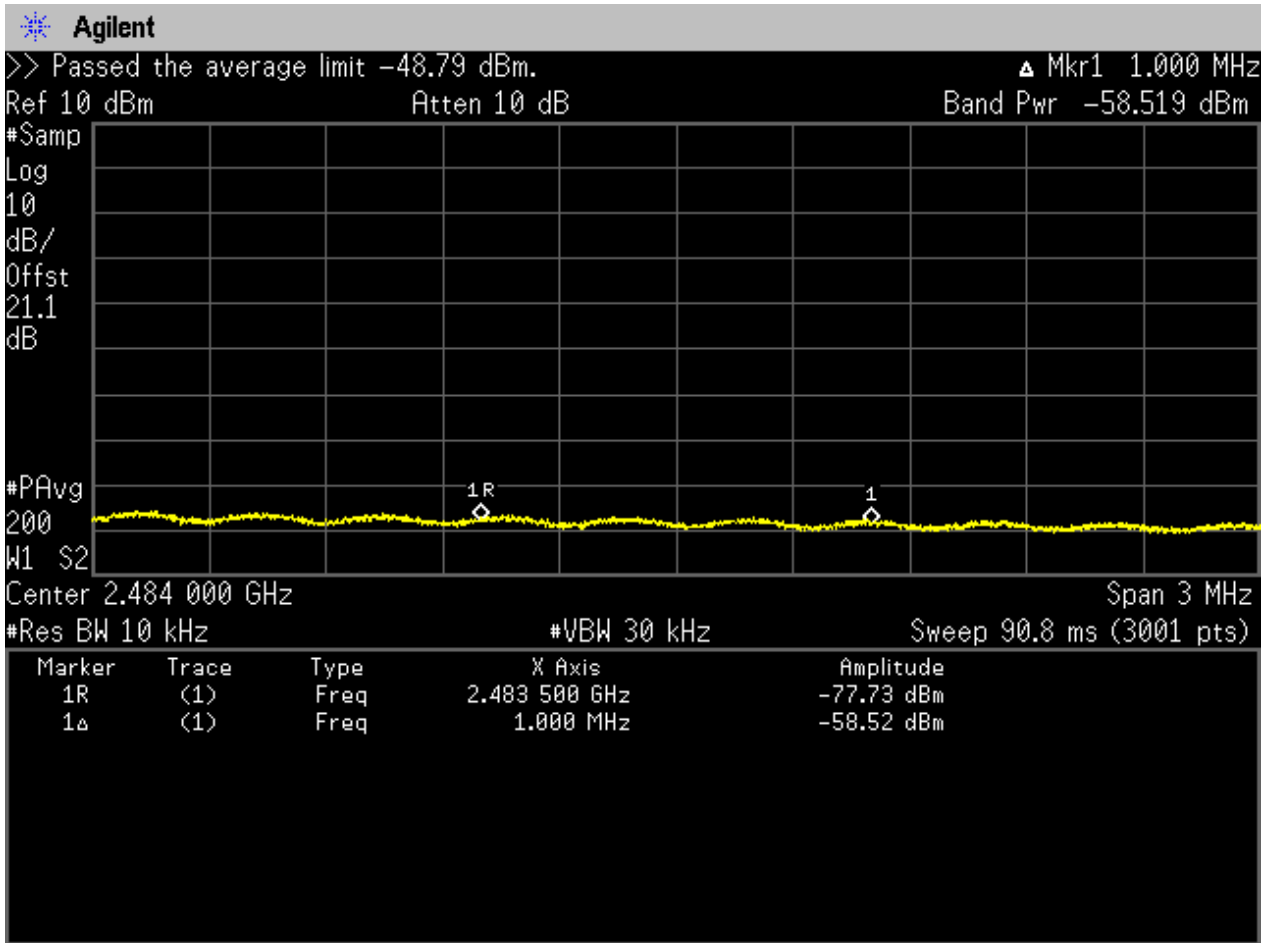
2.18.1 Ant 1 (Trace#1)

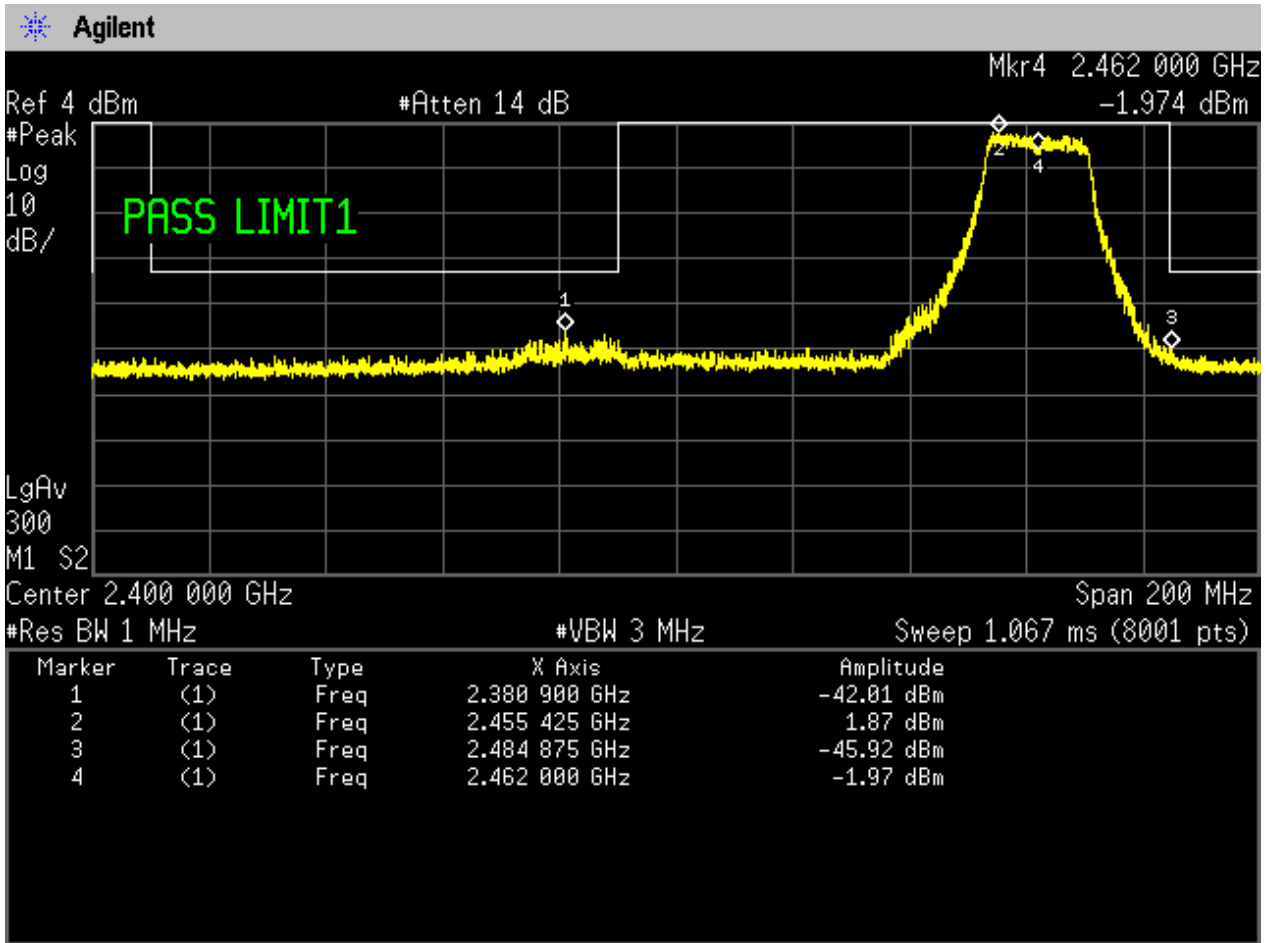


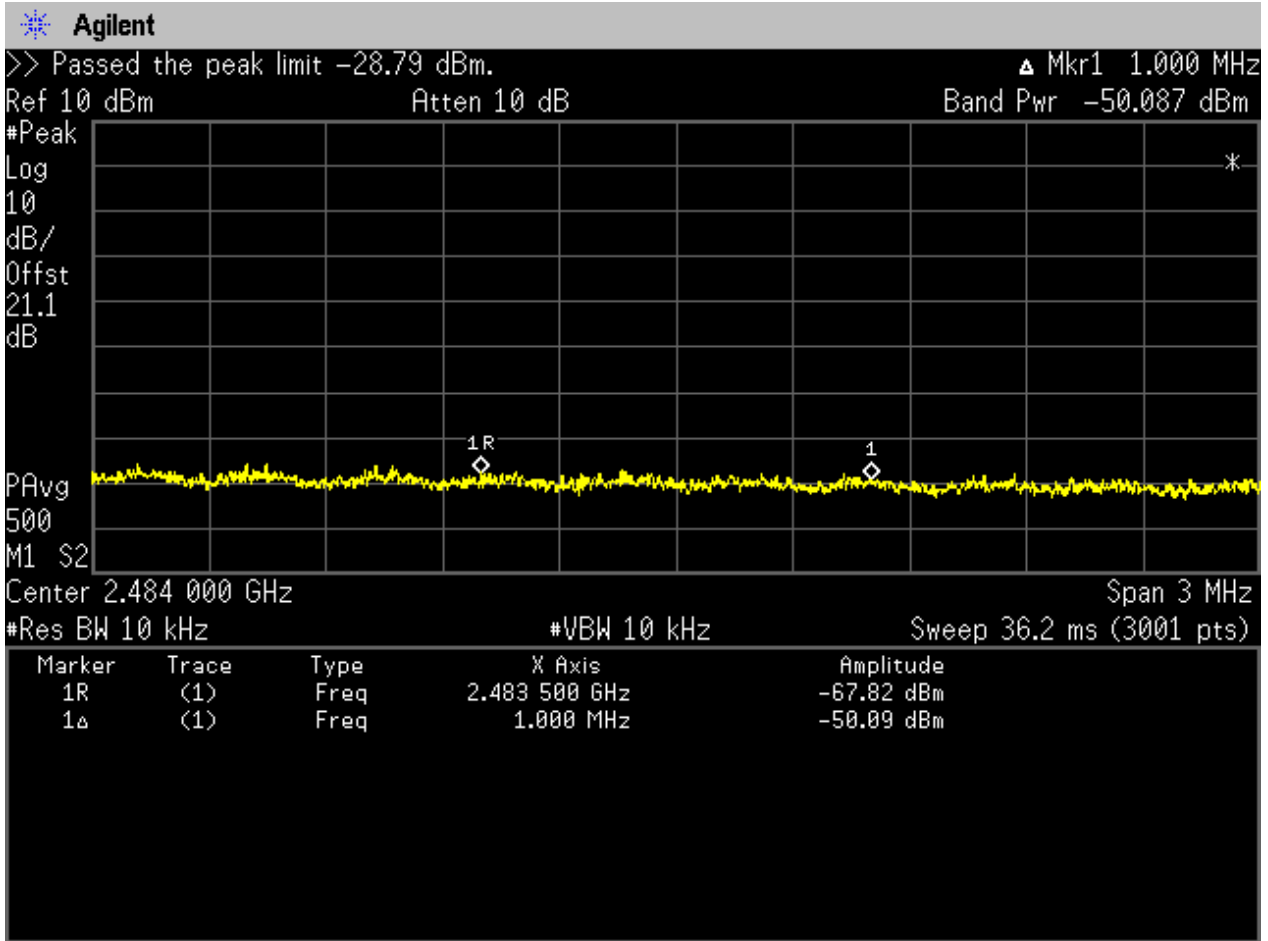


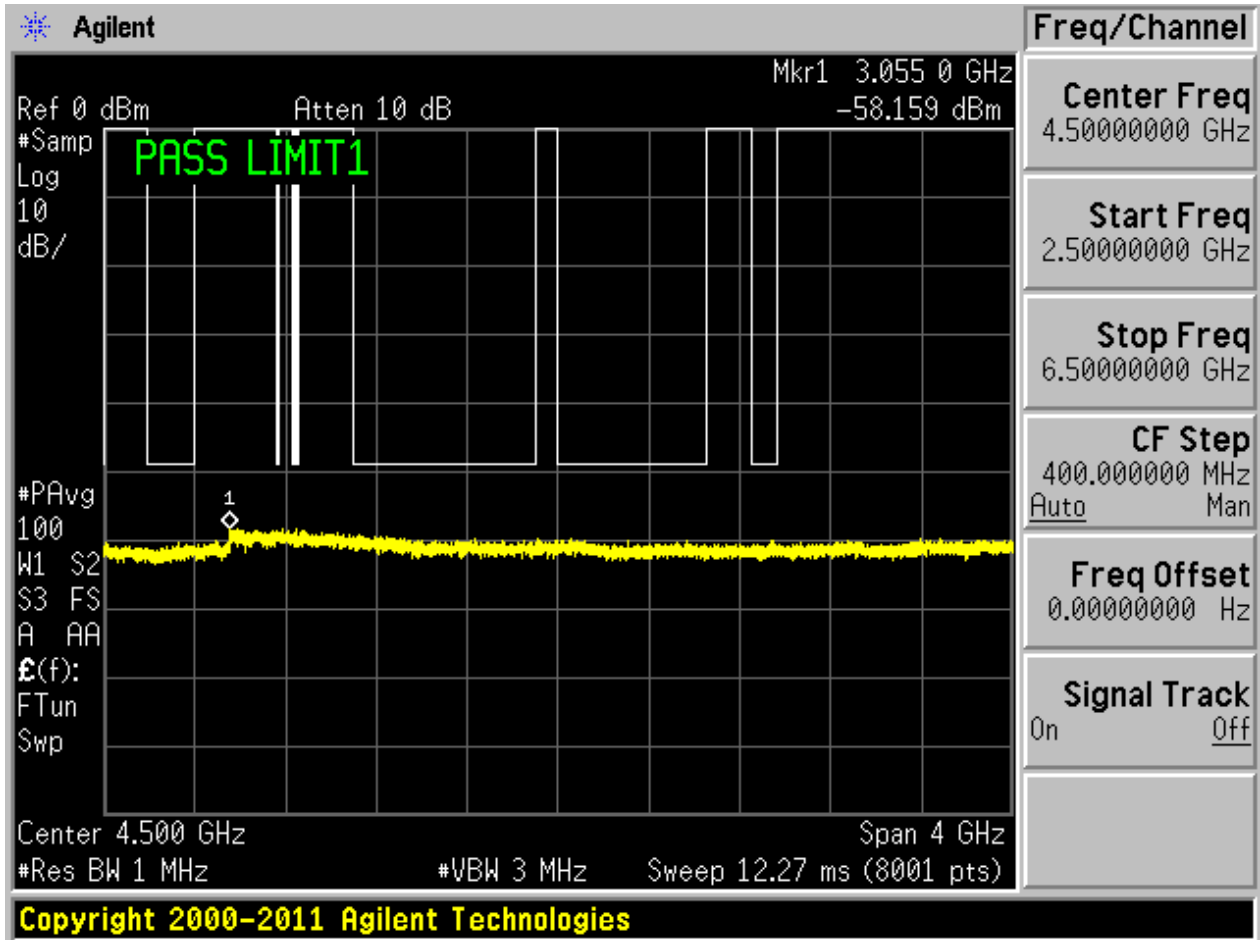


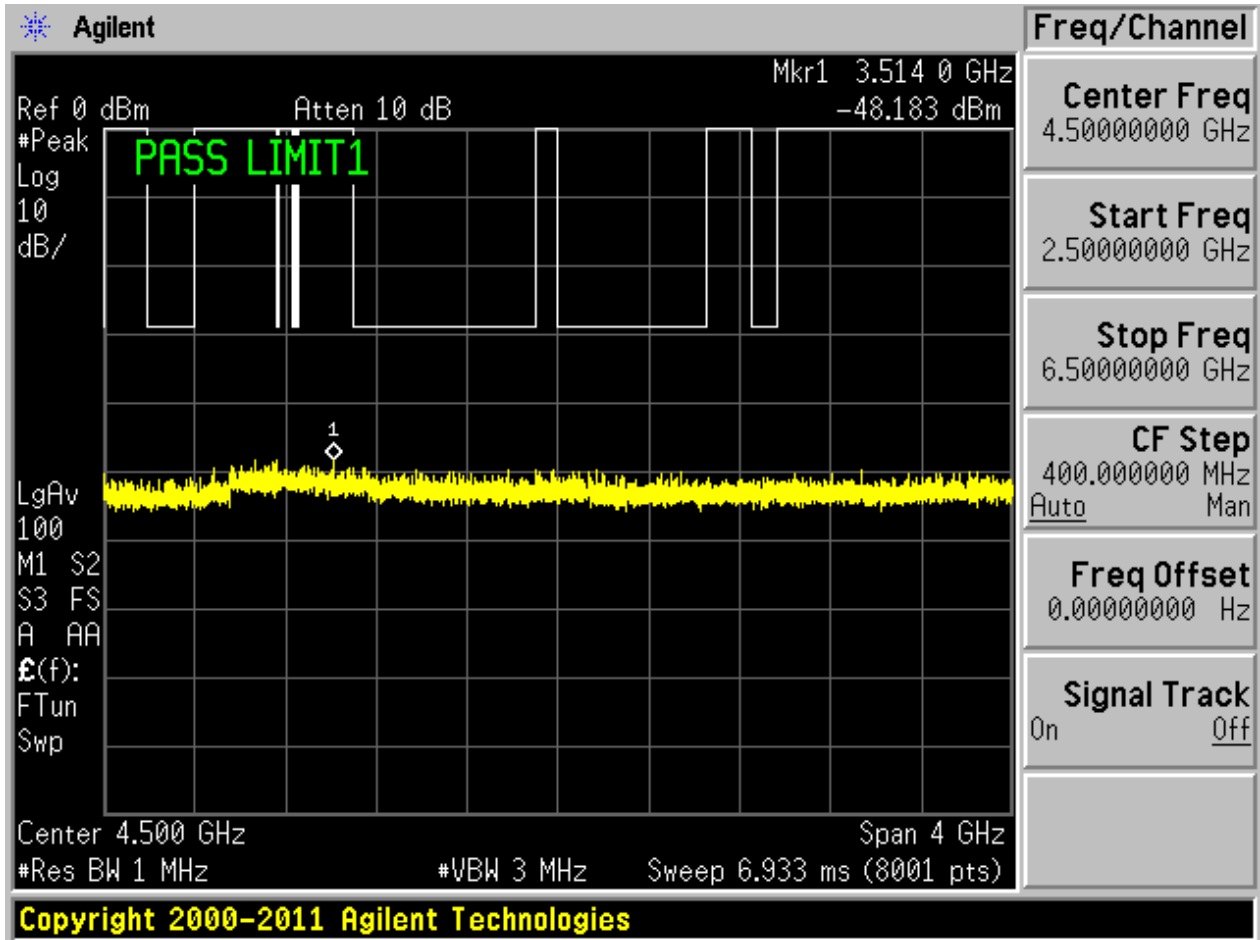


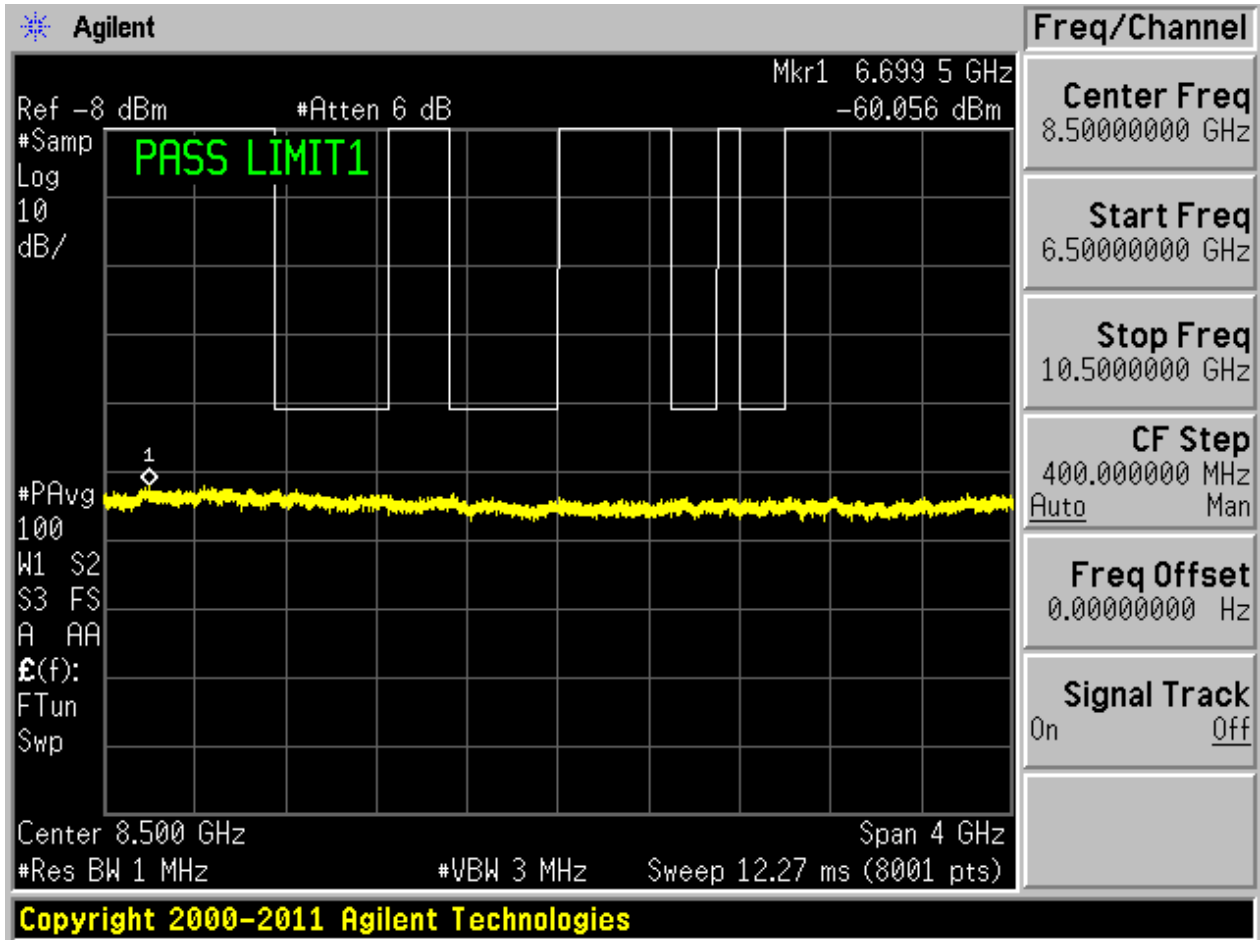


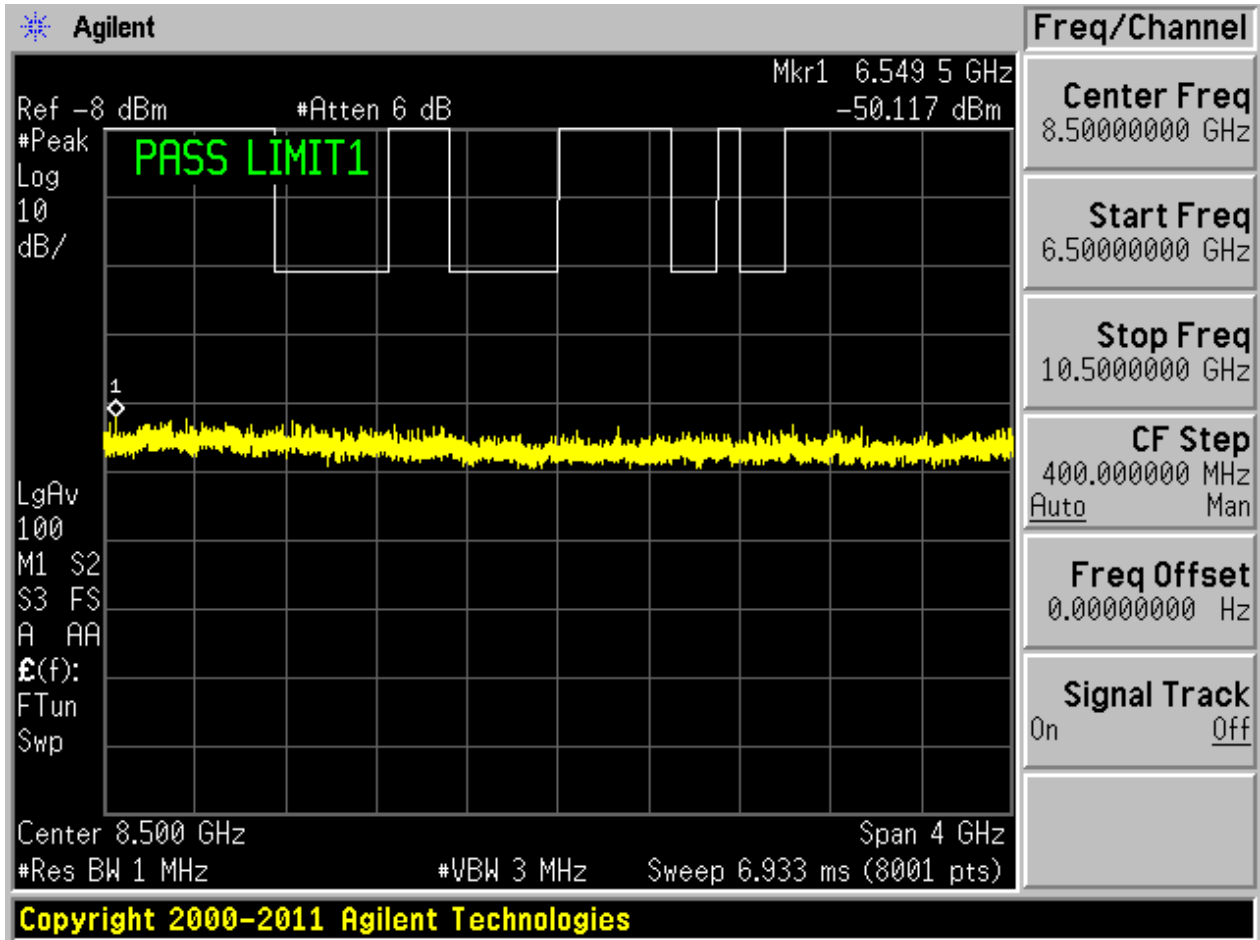


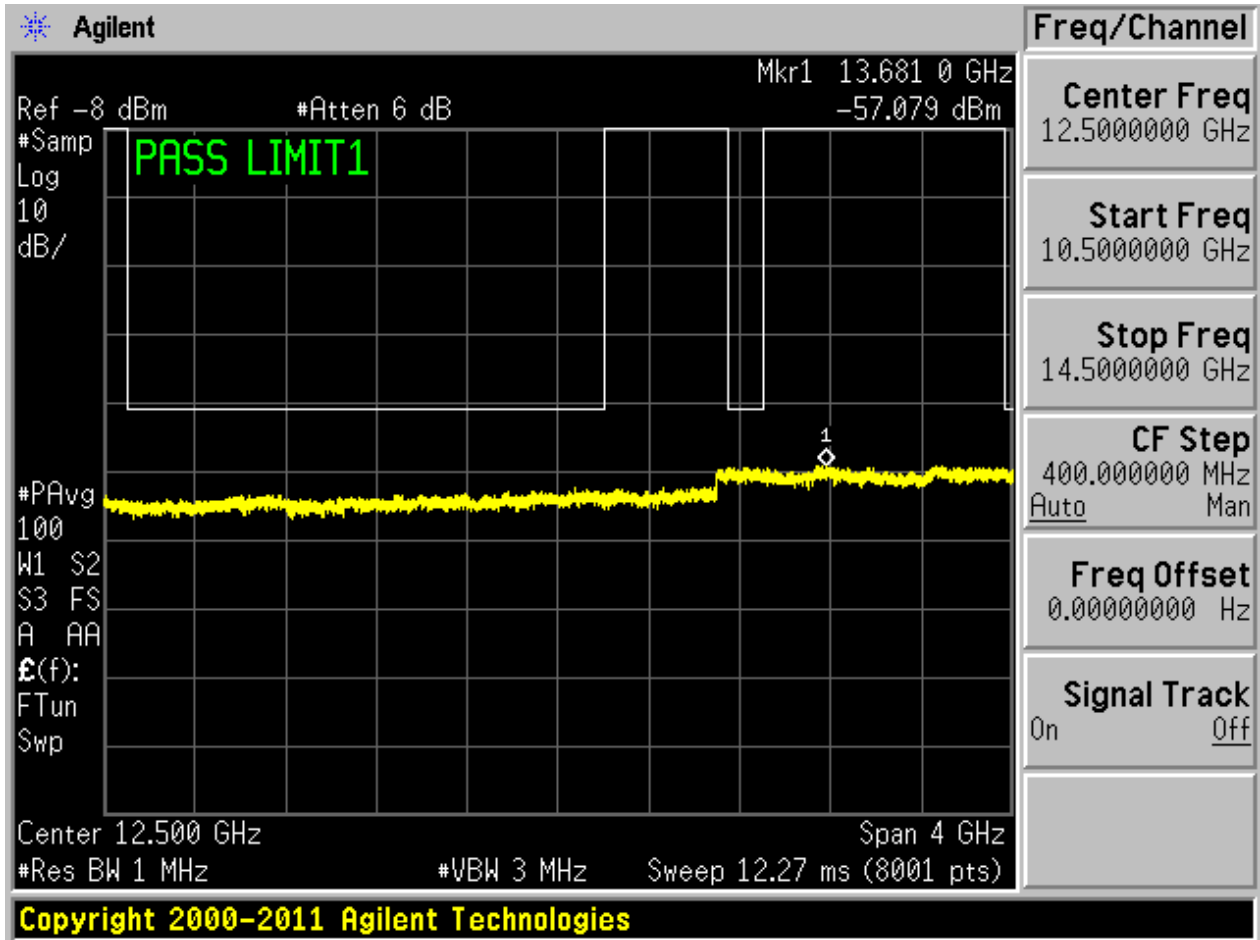


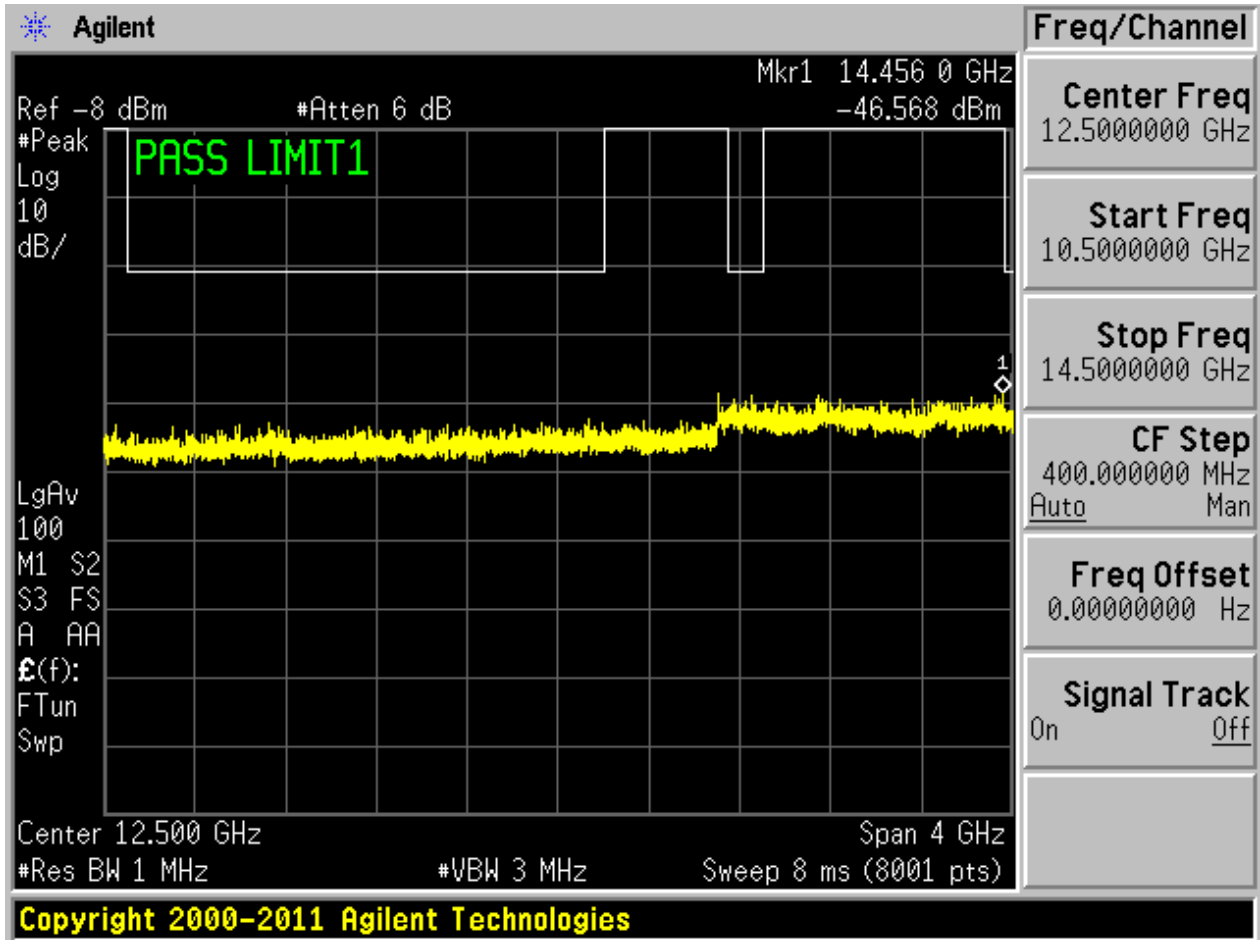


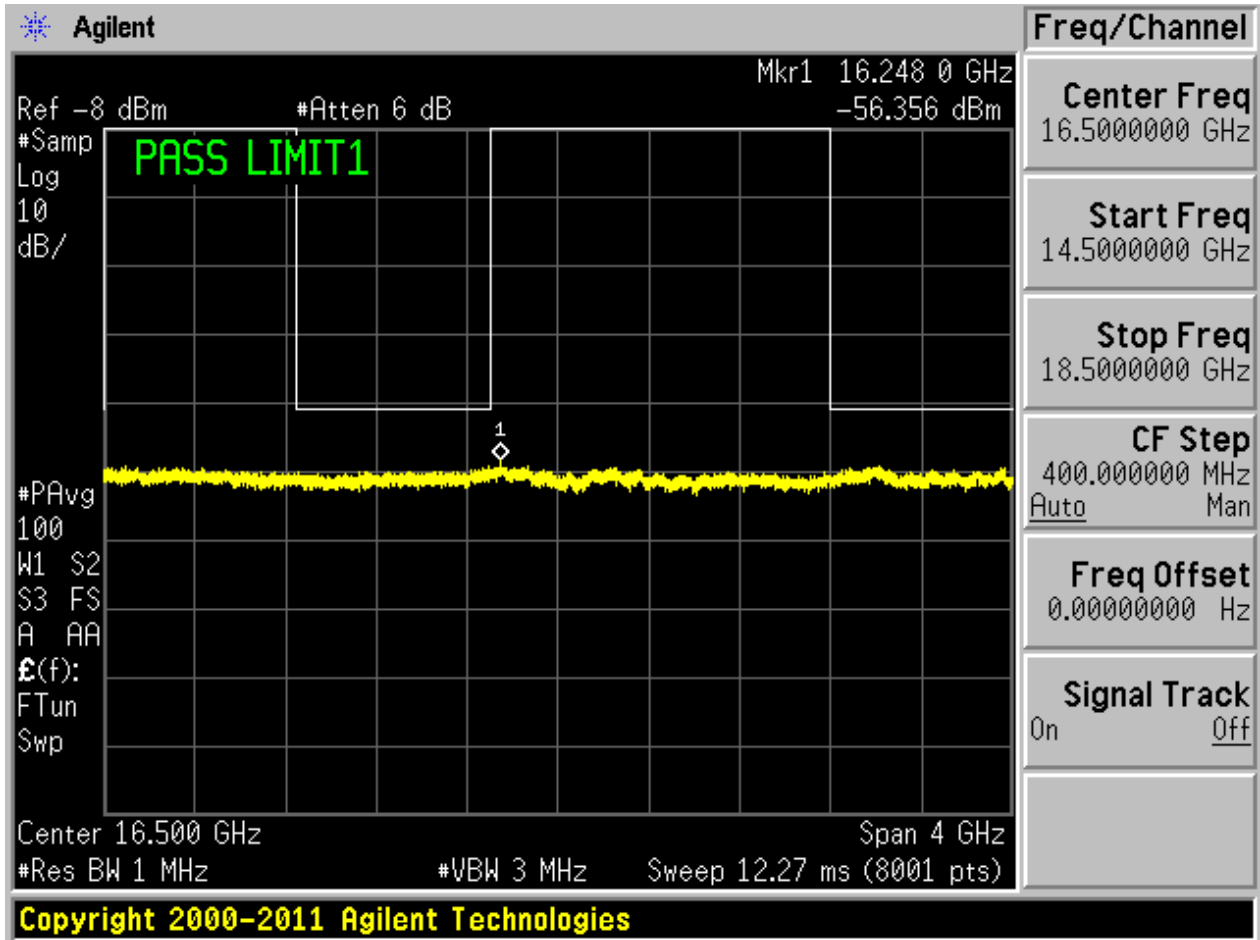


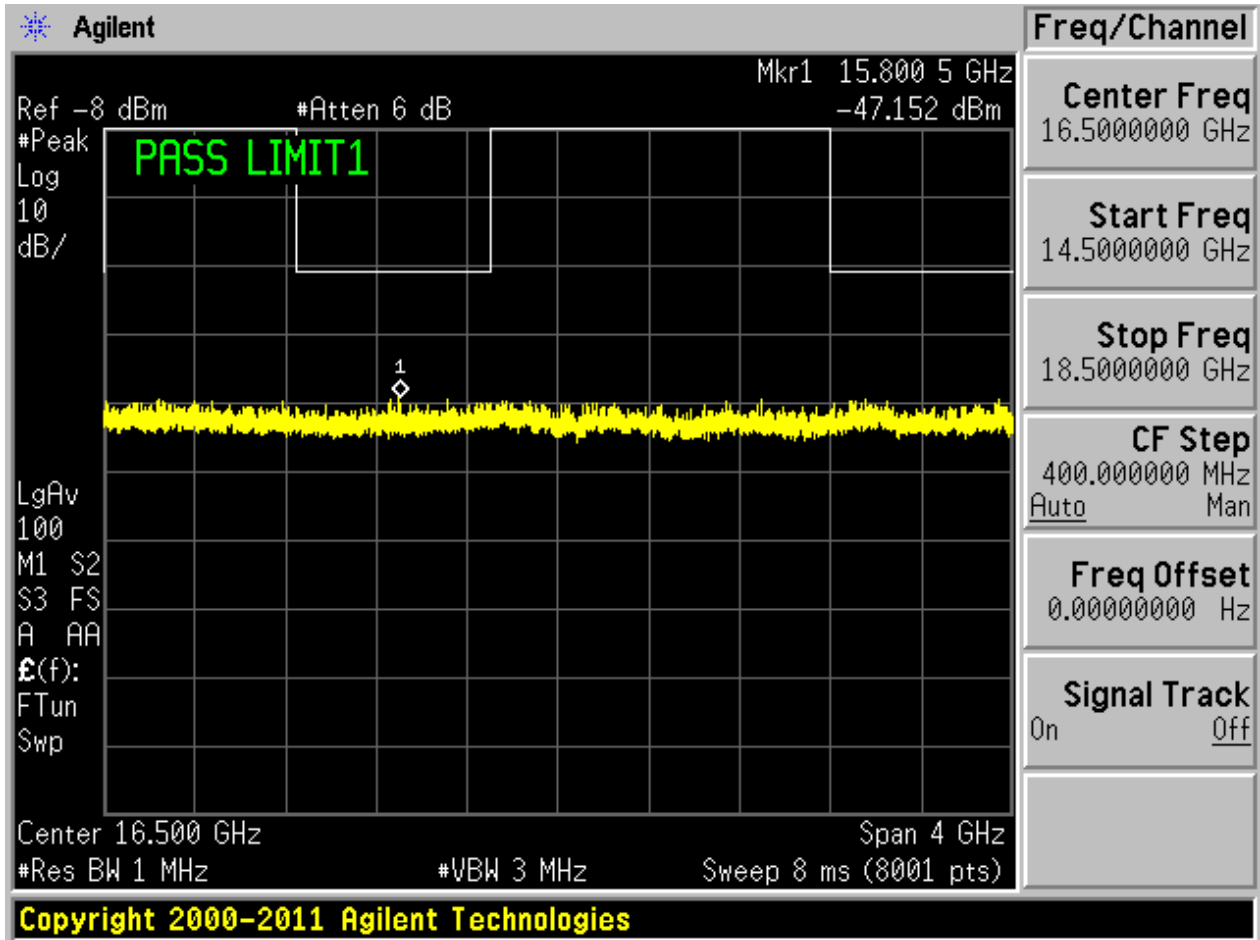




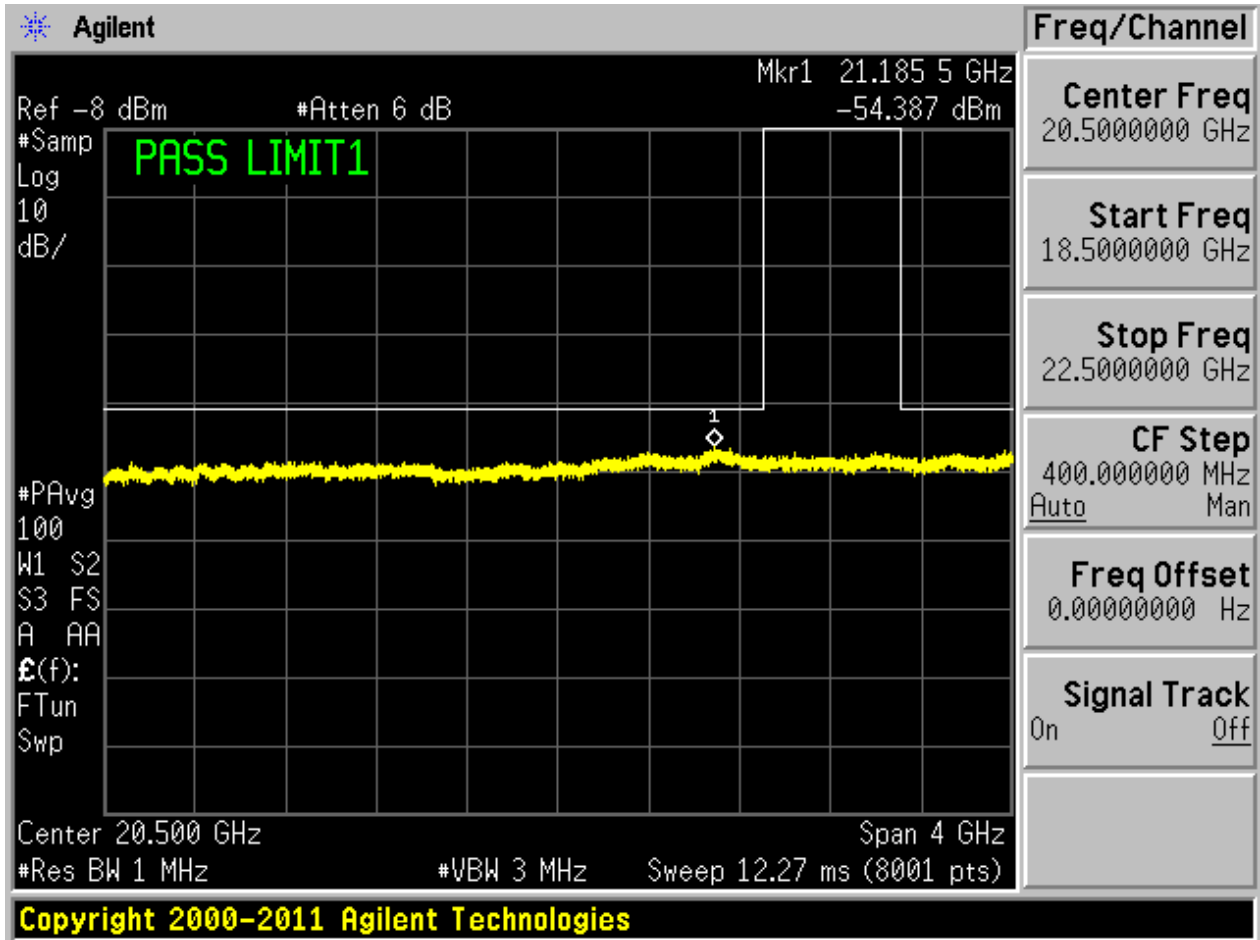


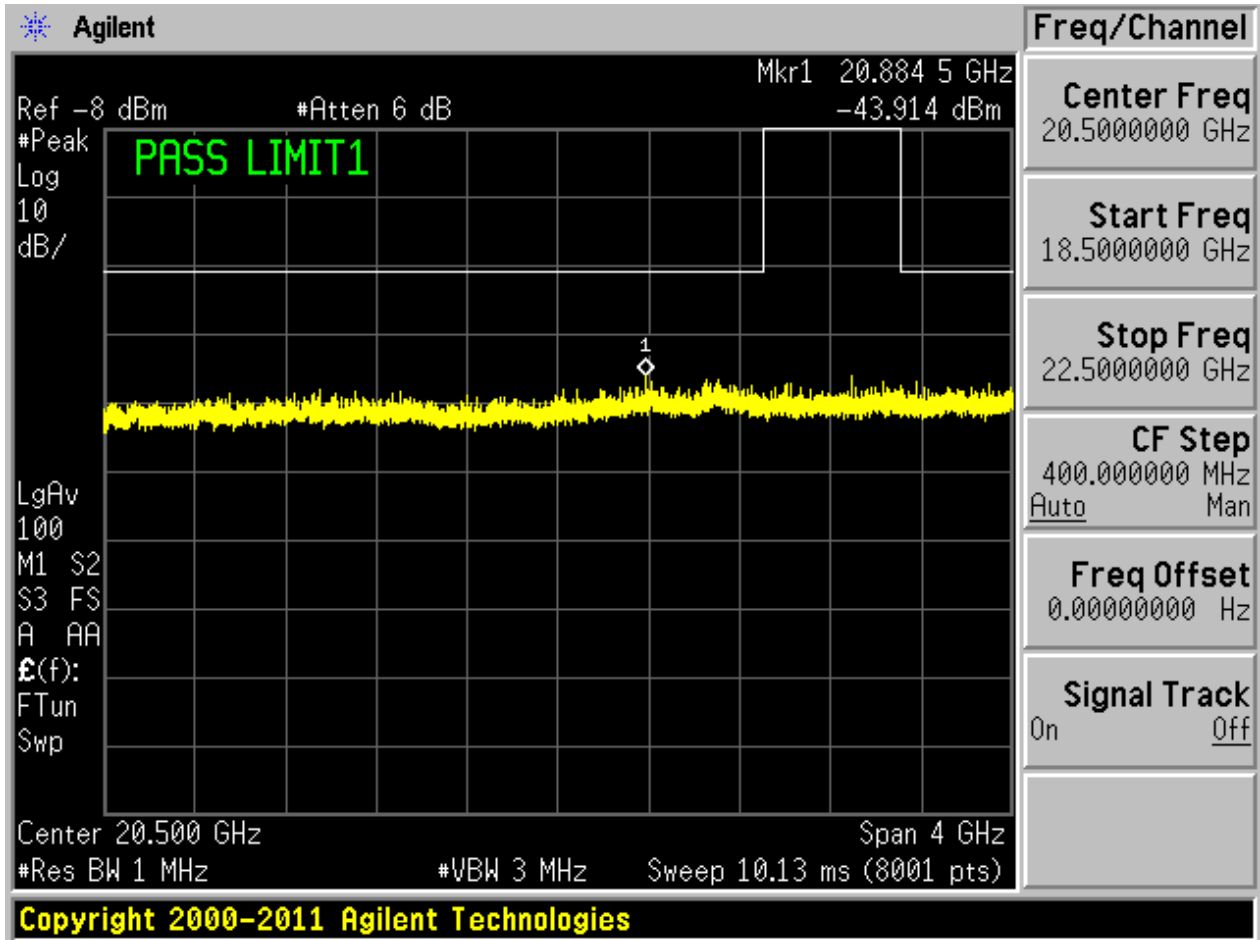


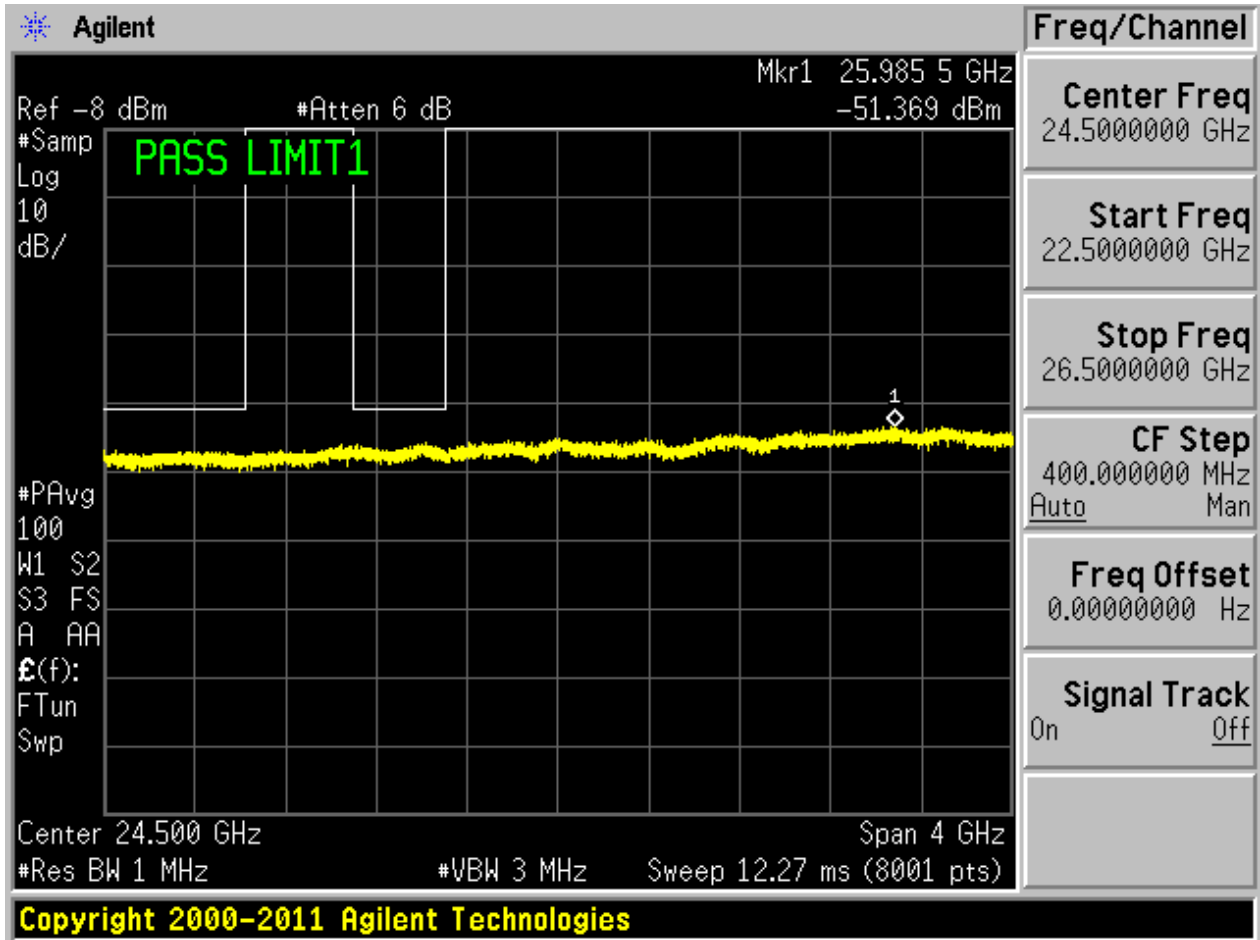


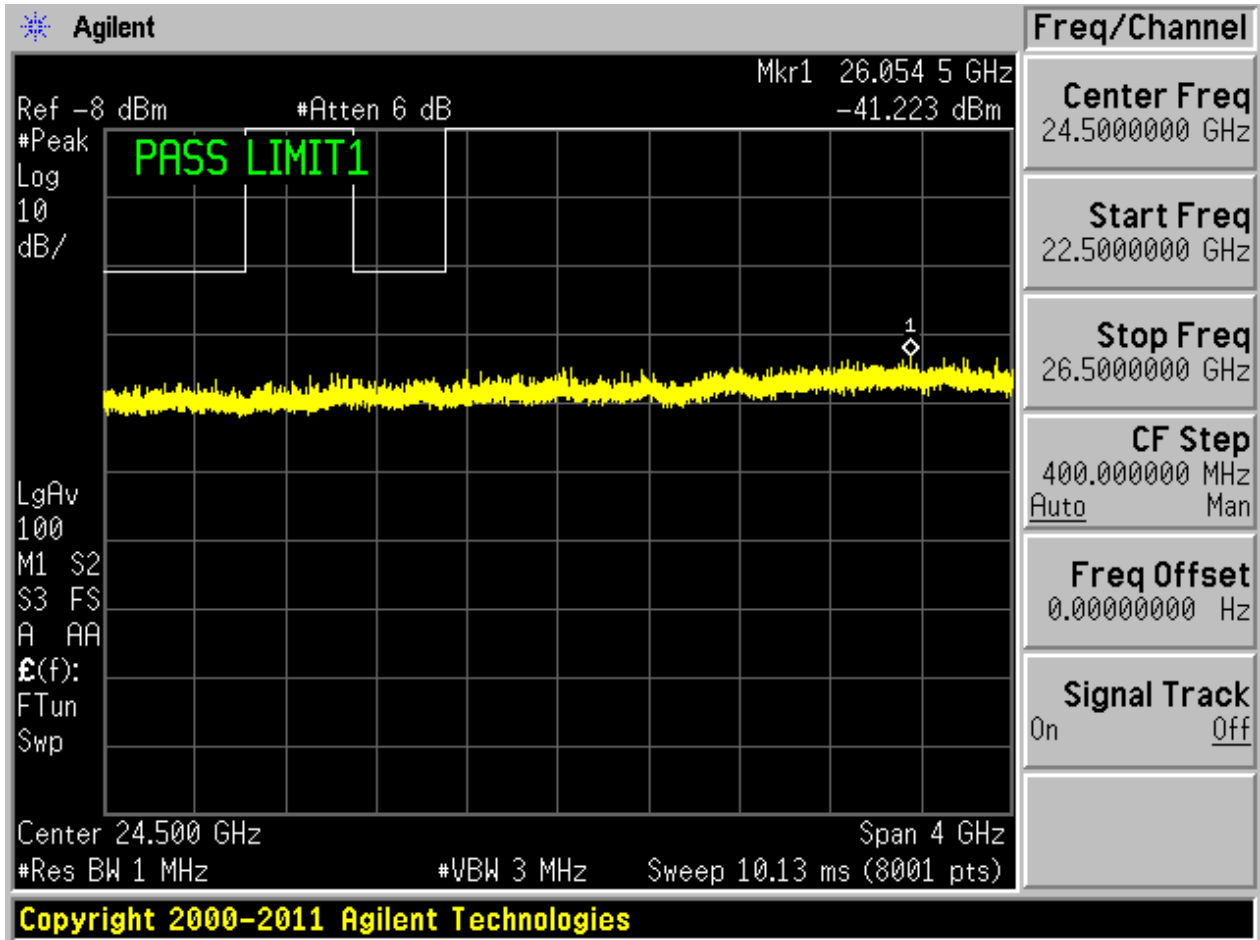


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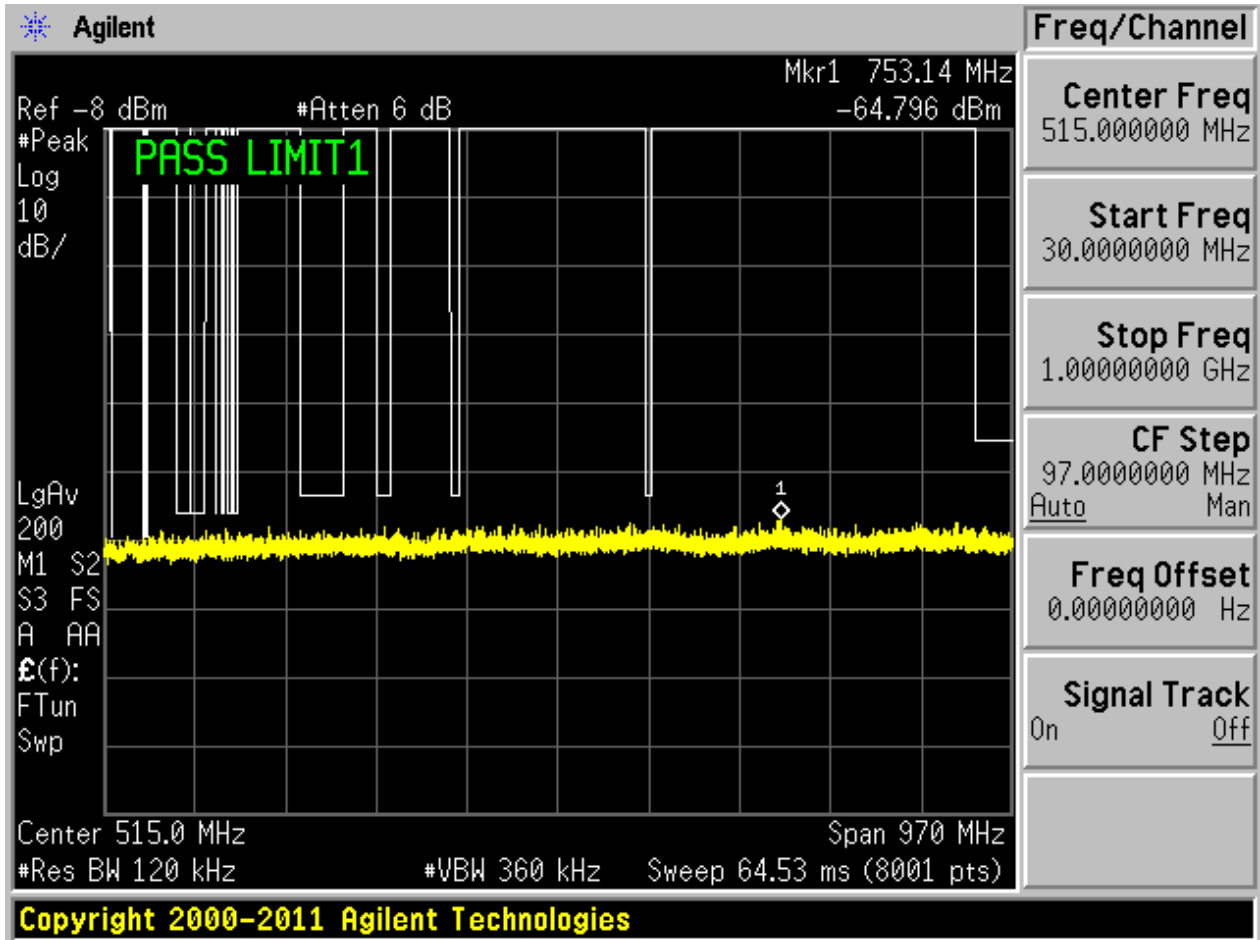


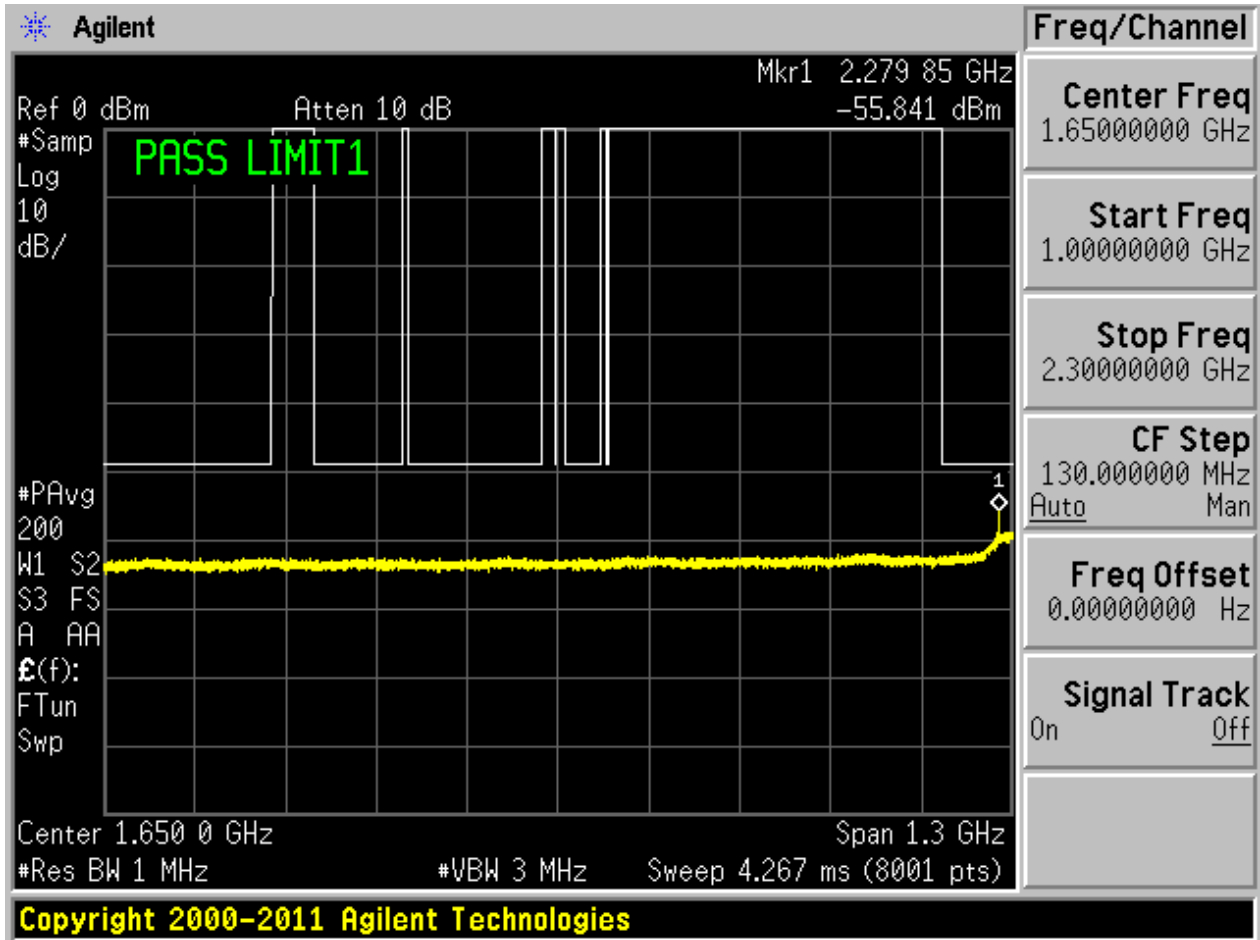


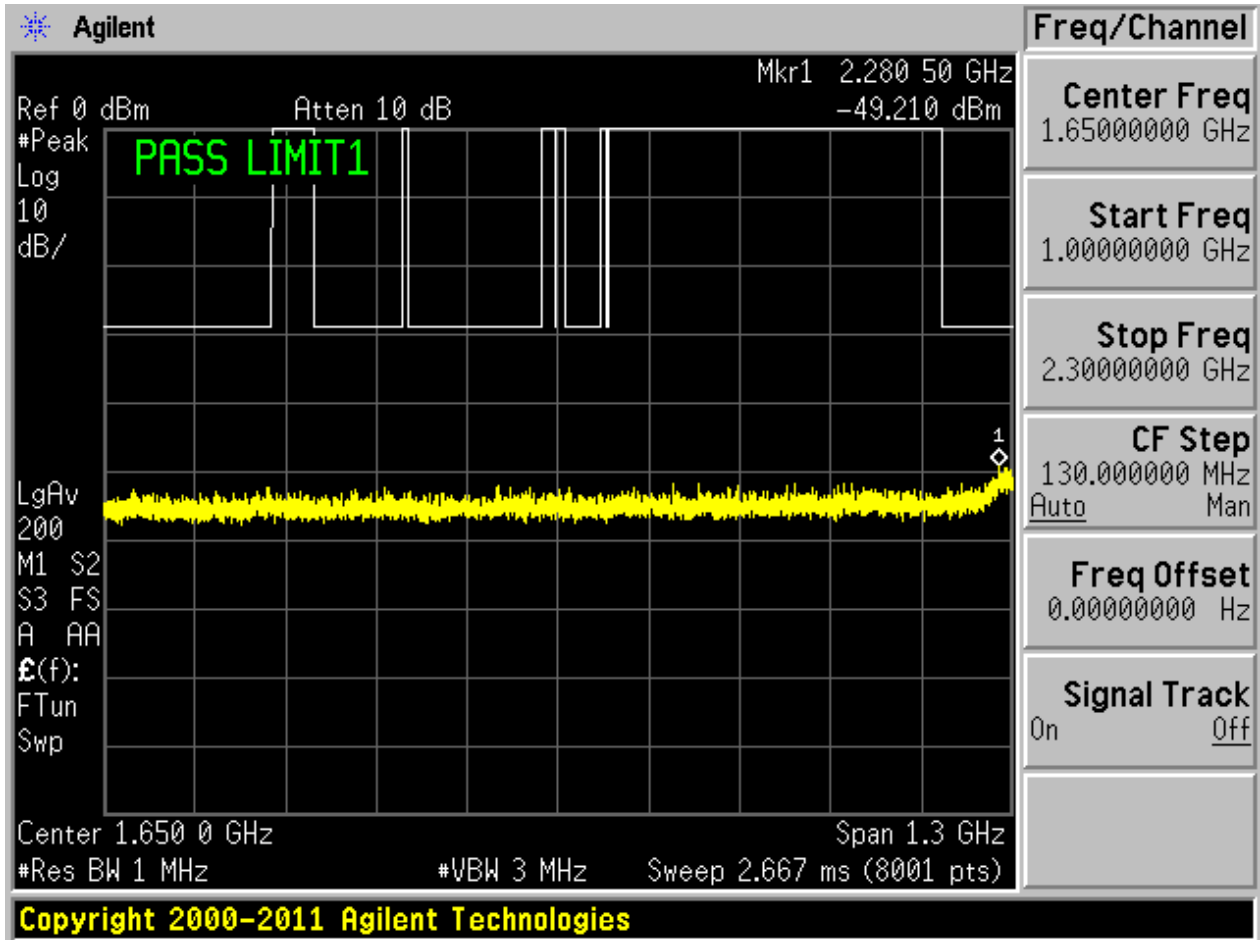


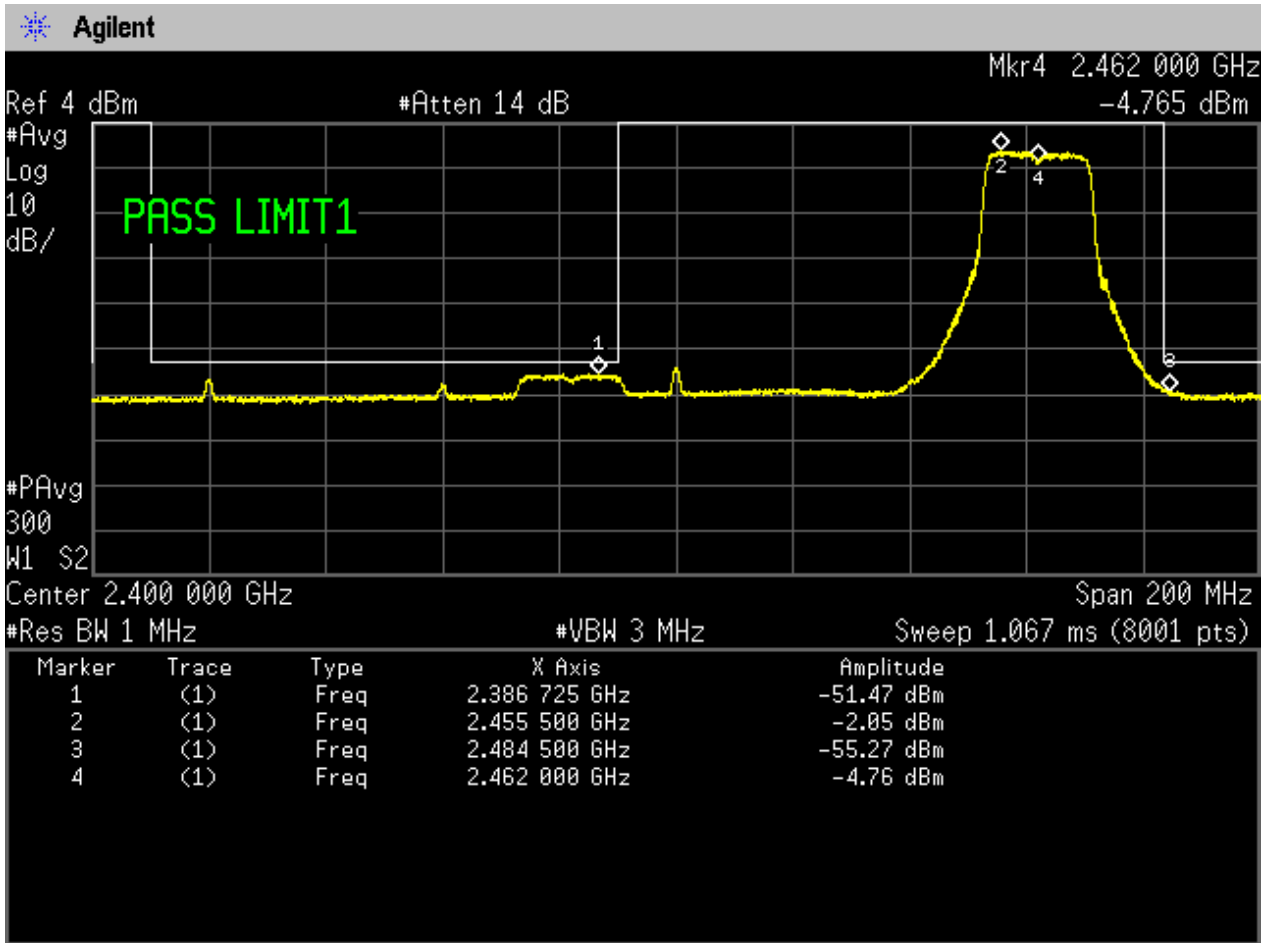


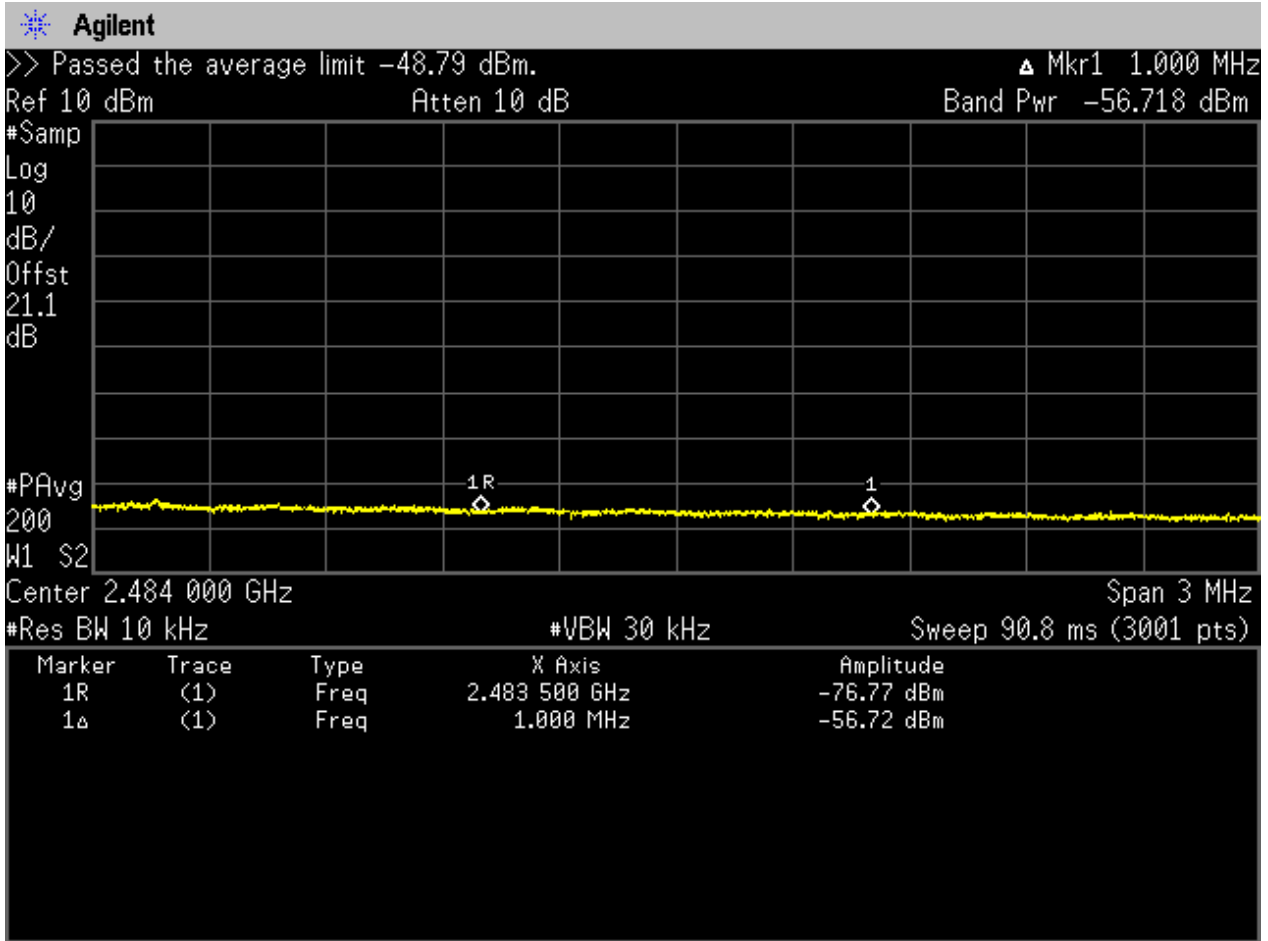
2.18.2 Ant 2 (Trace#2)

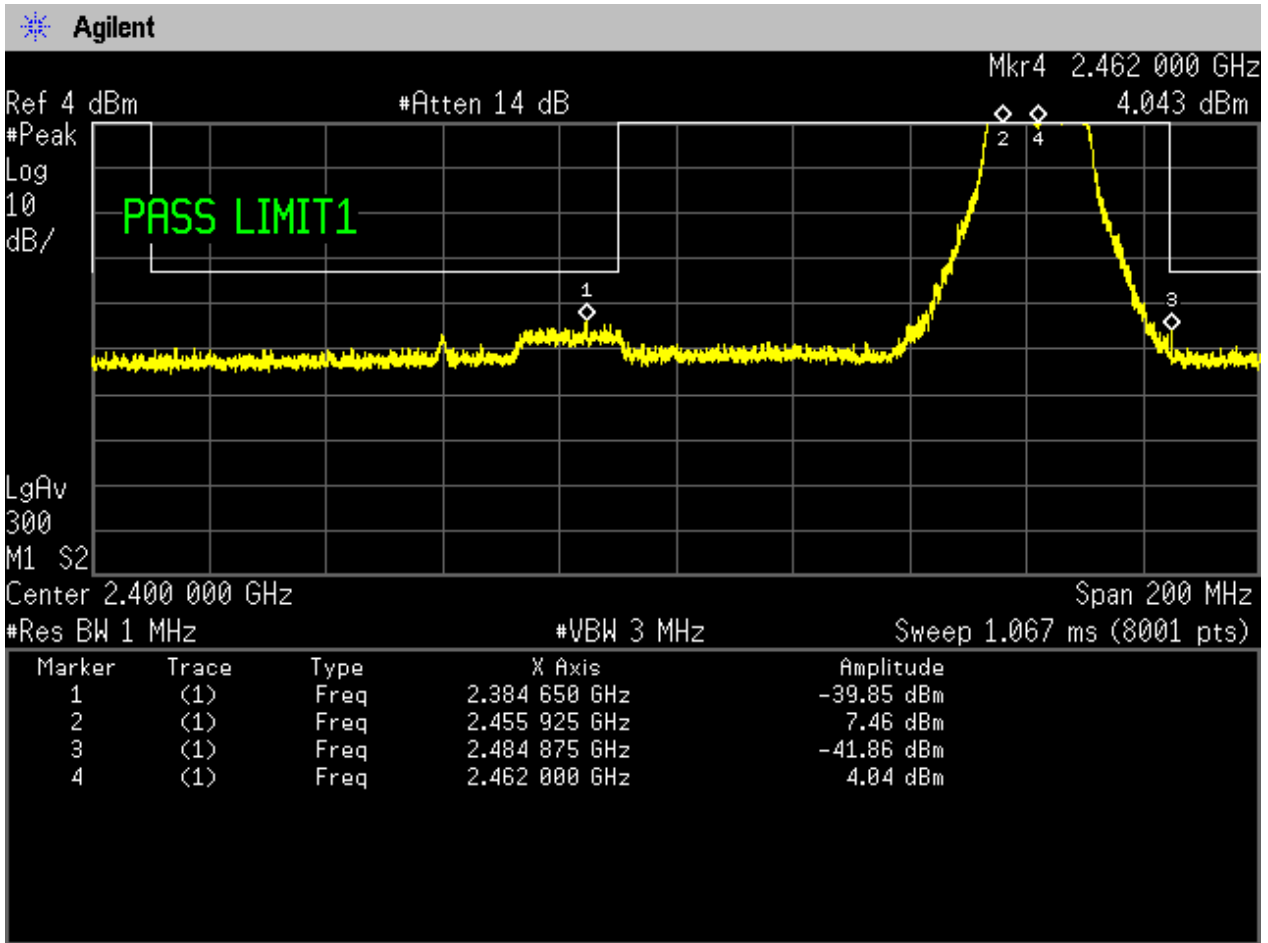


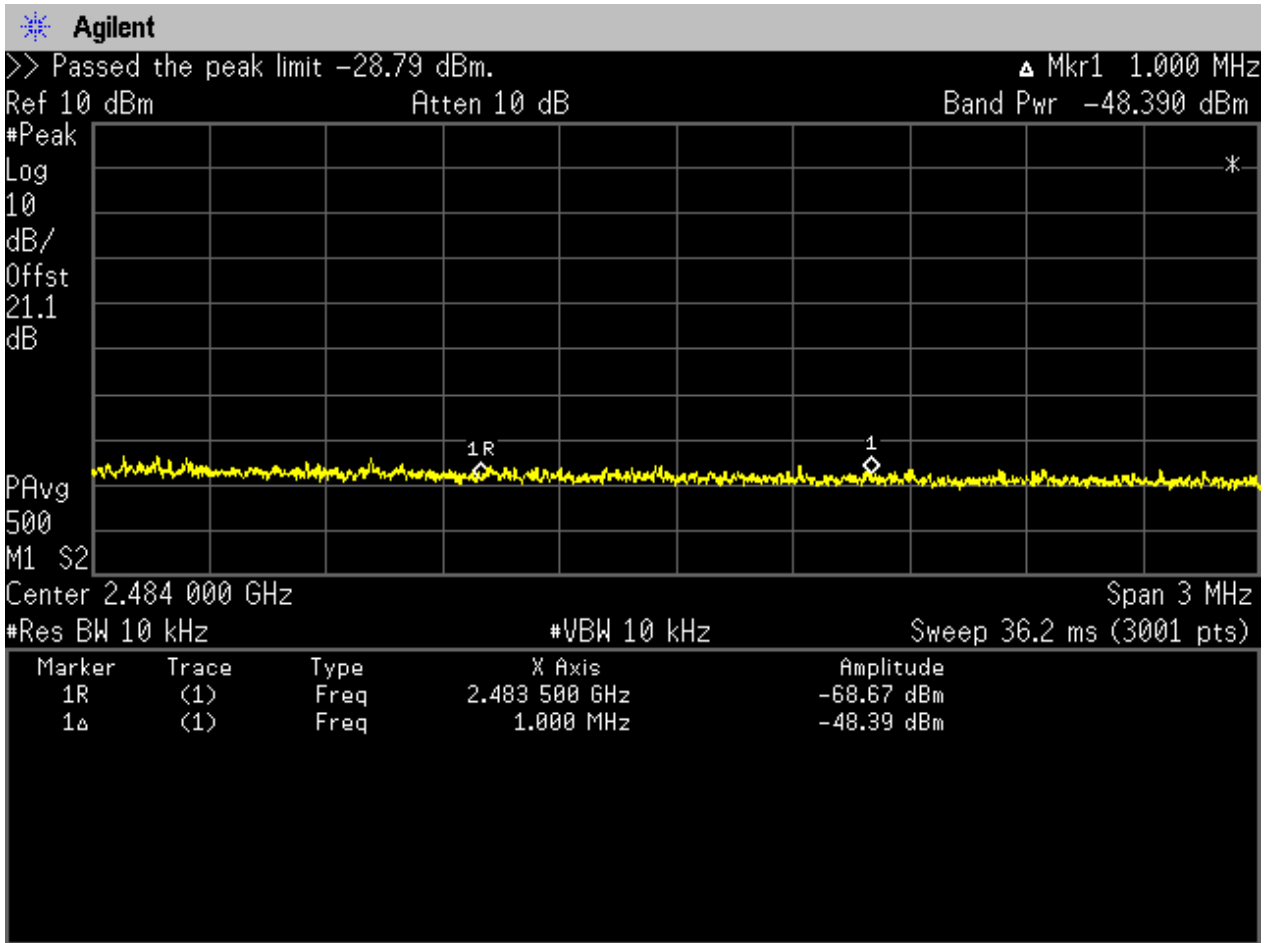


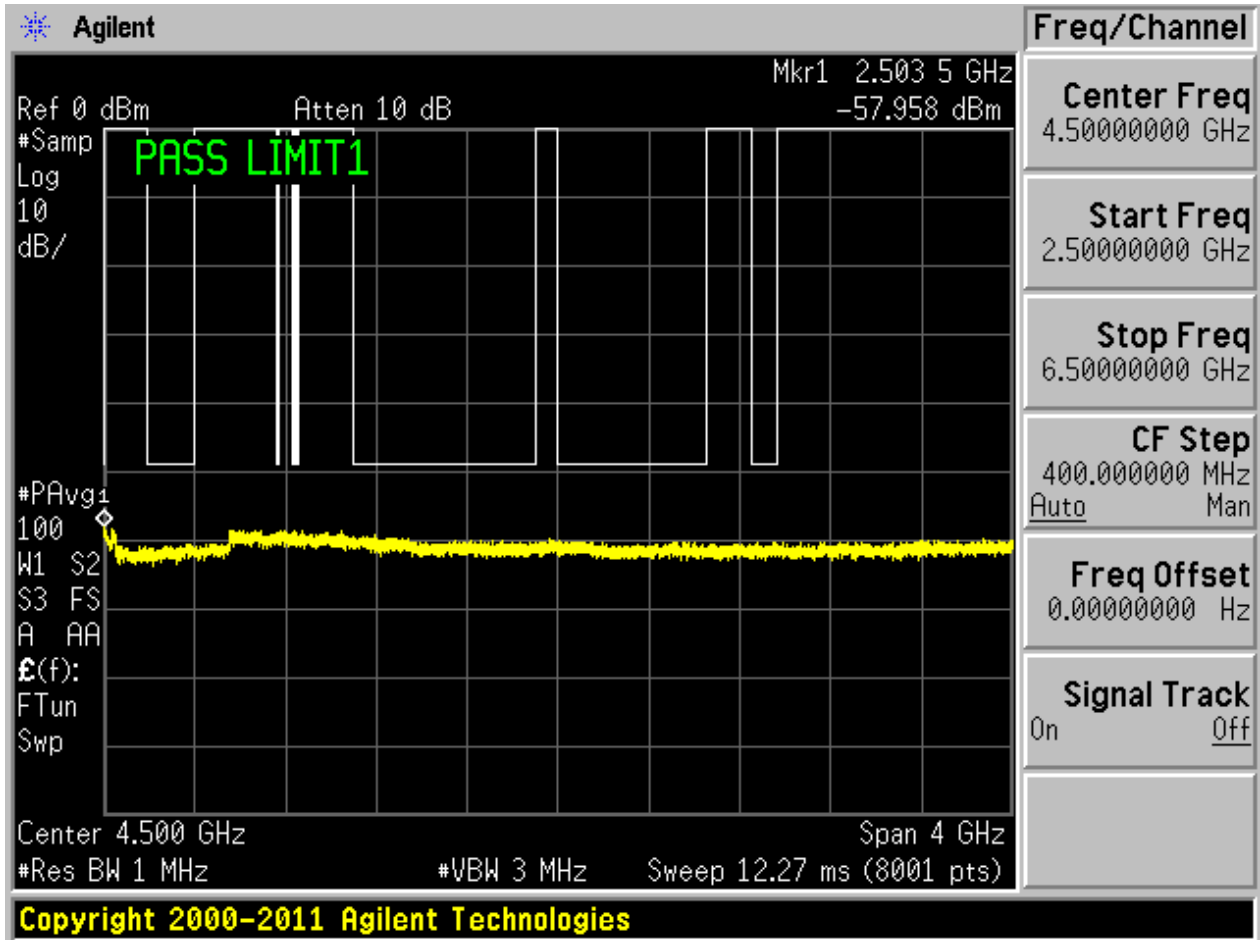


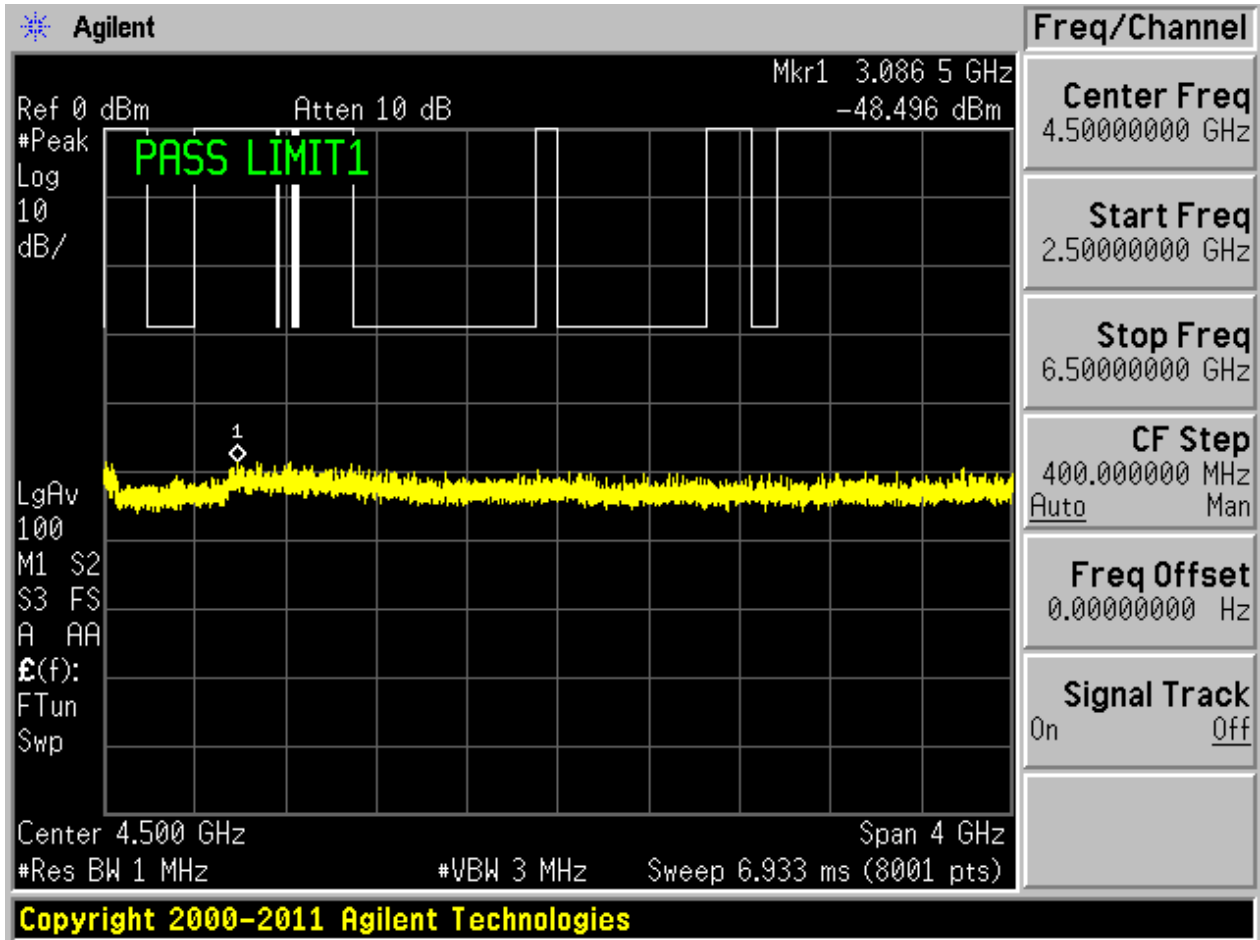


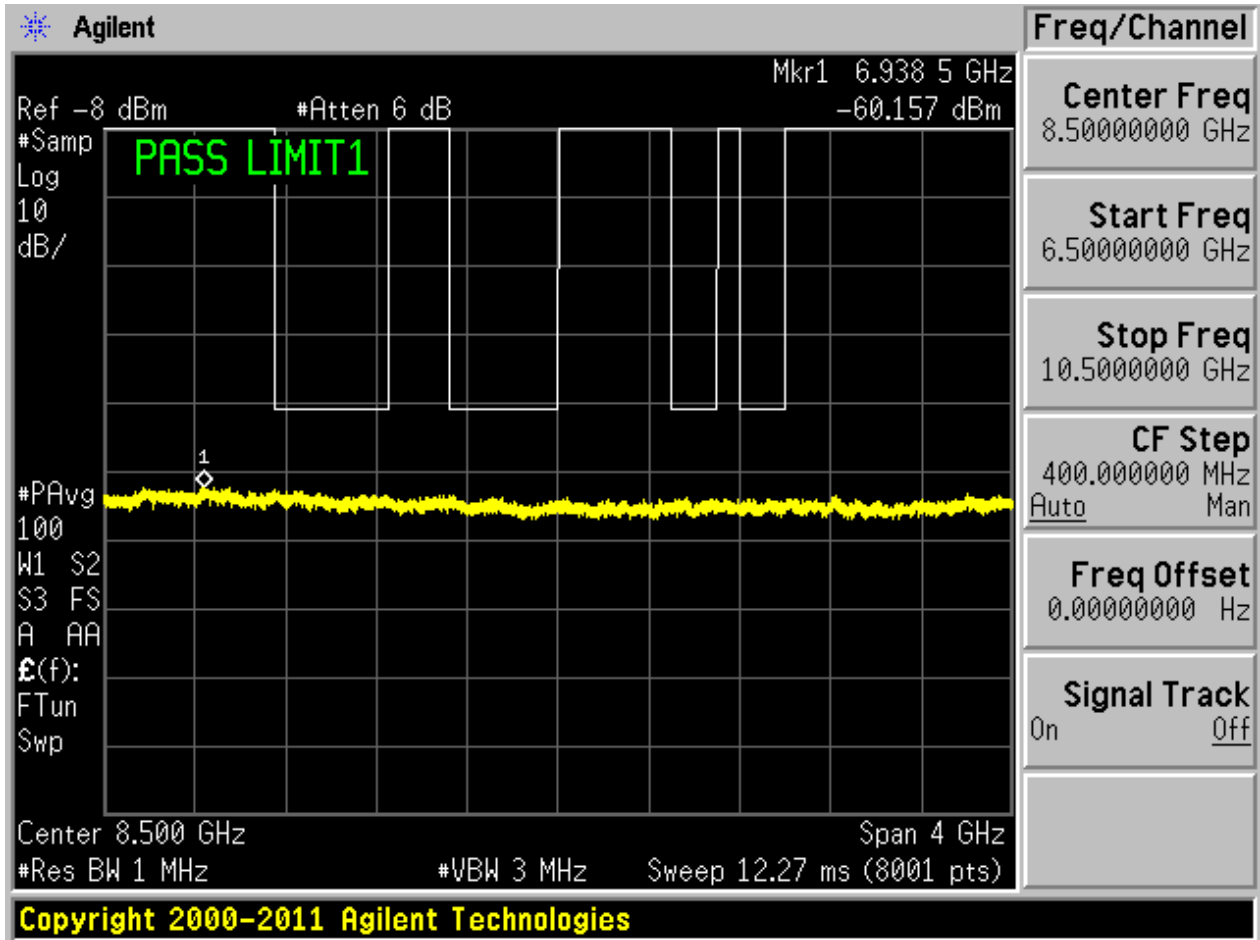


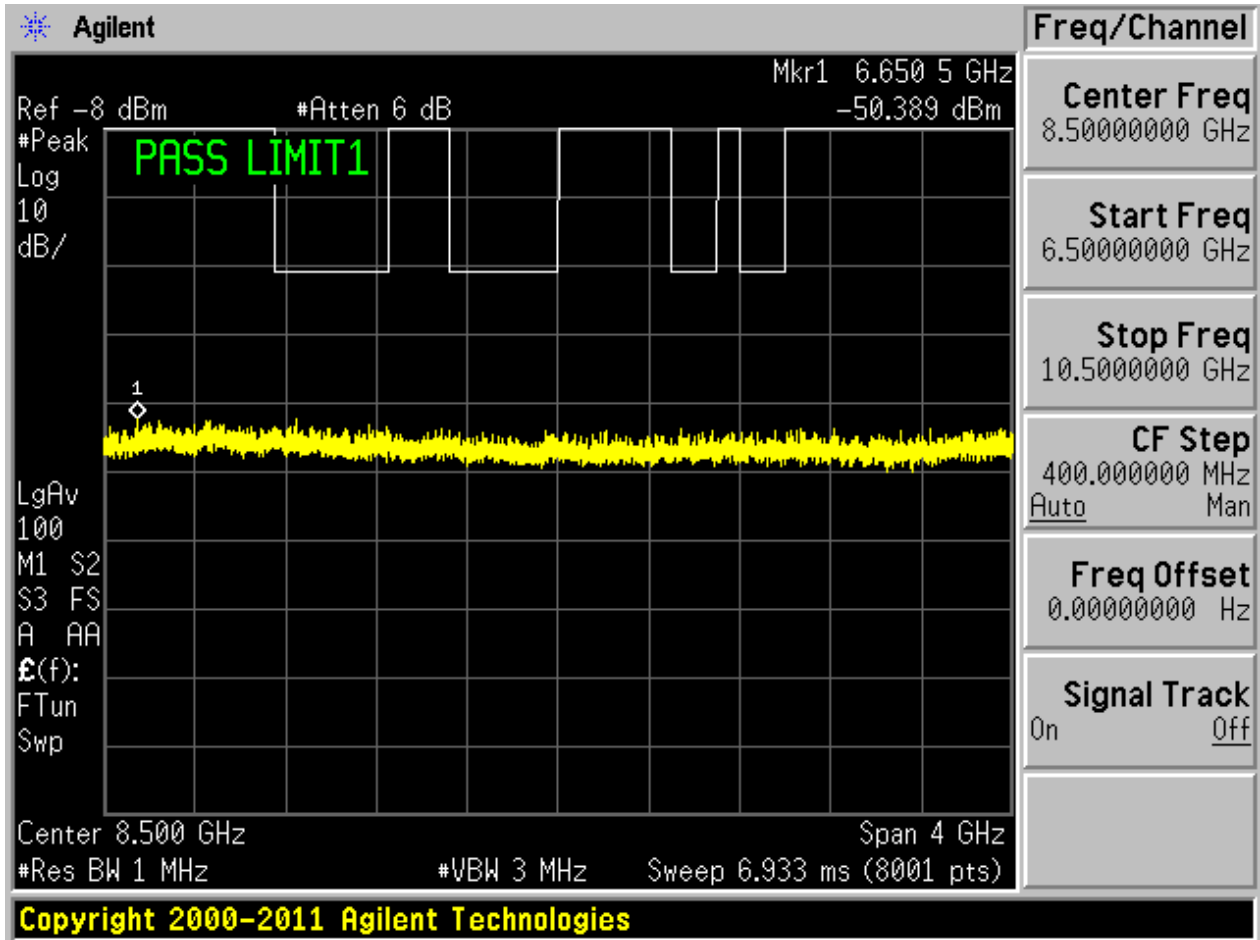


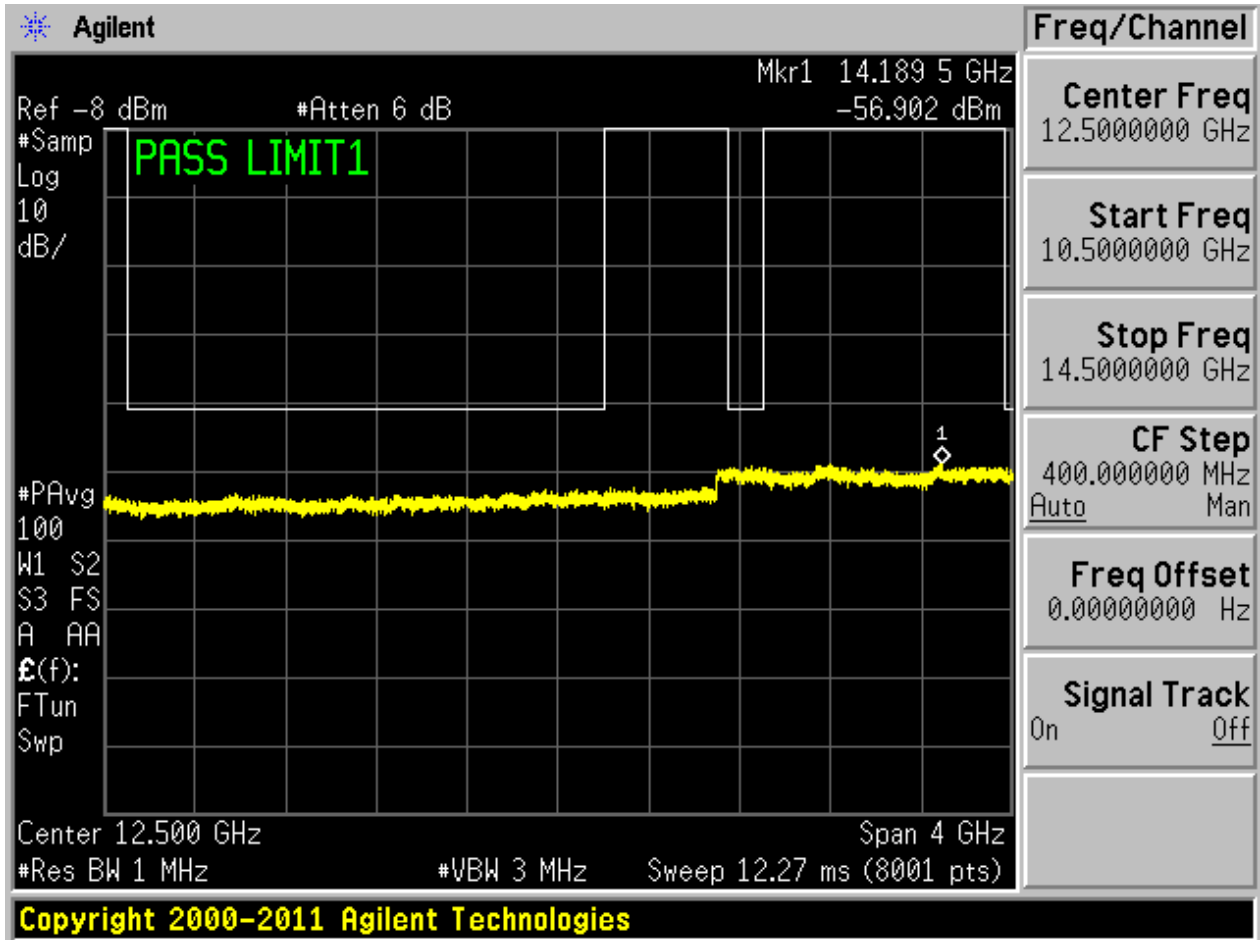


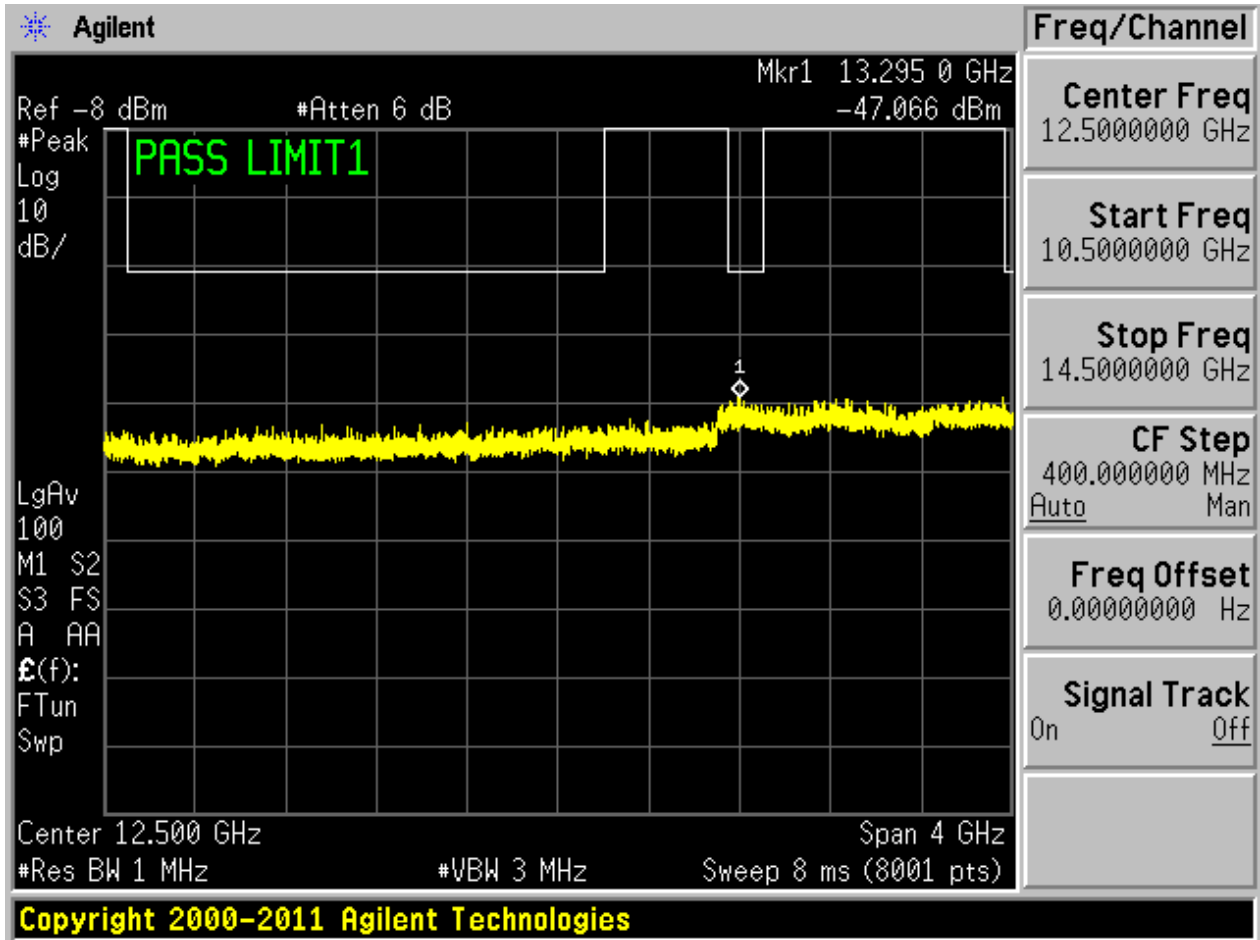


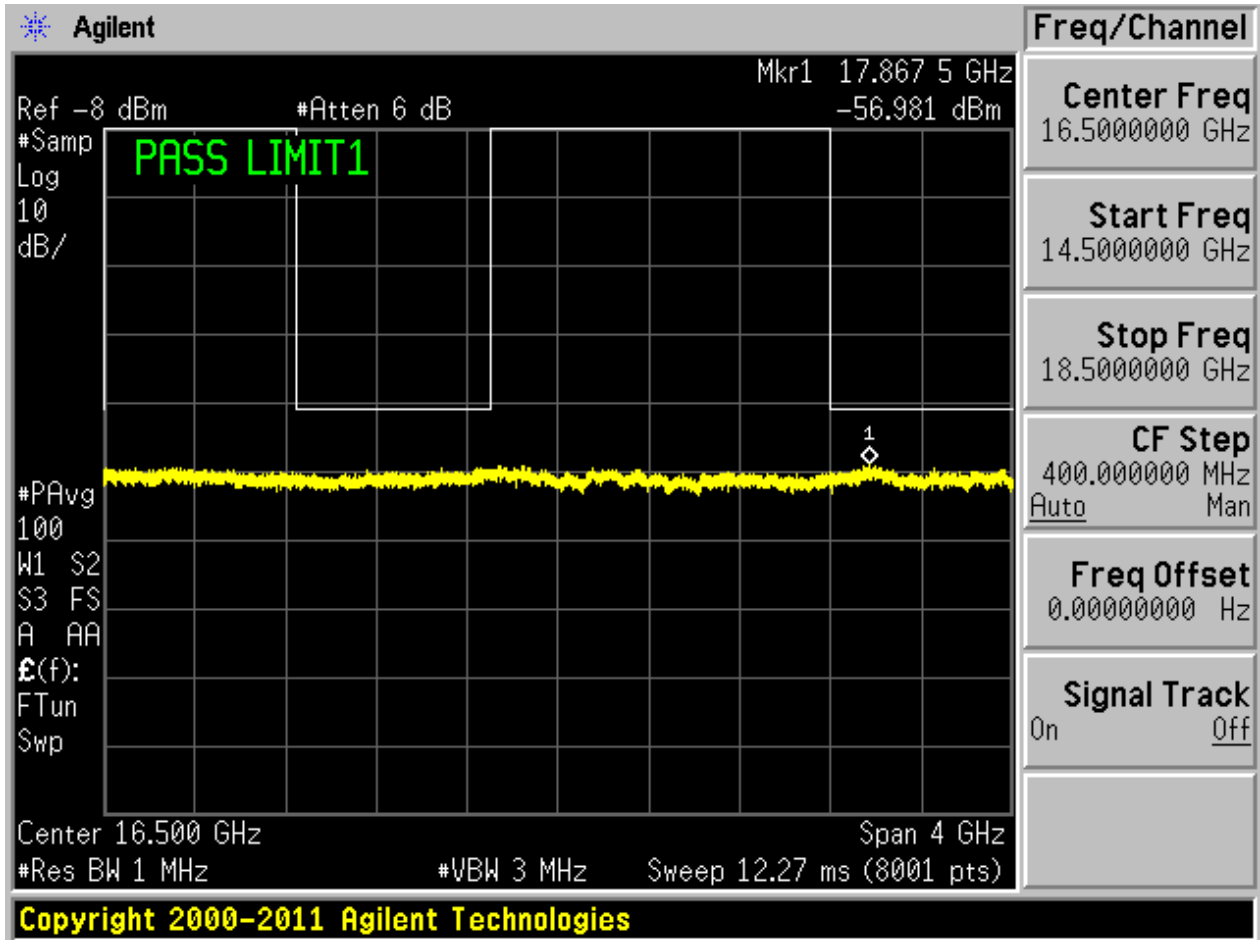


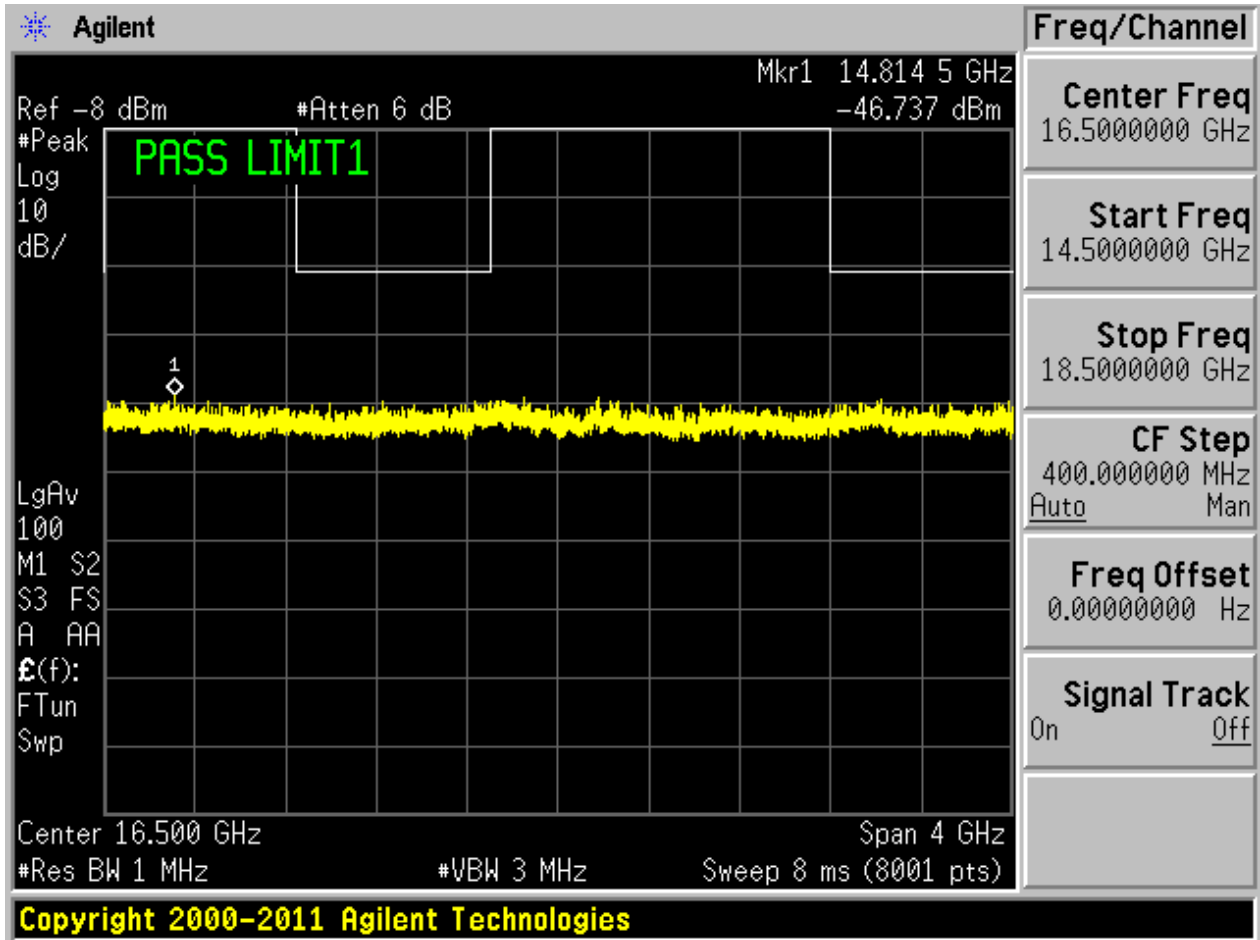


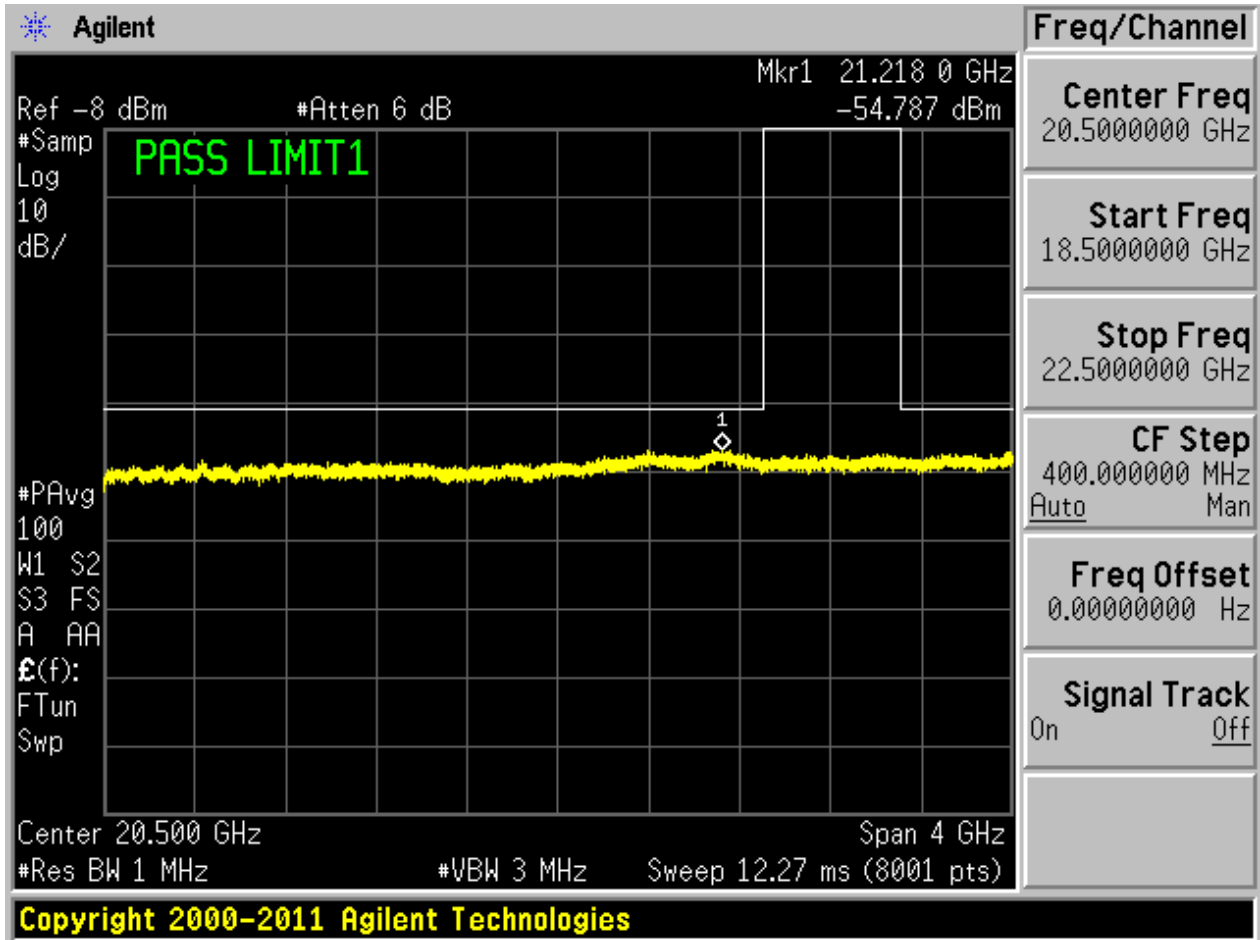


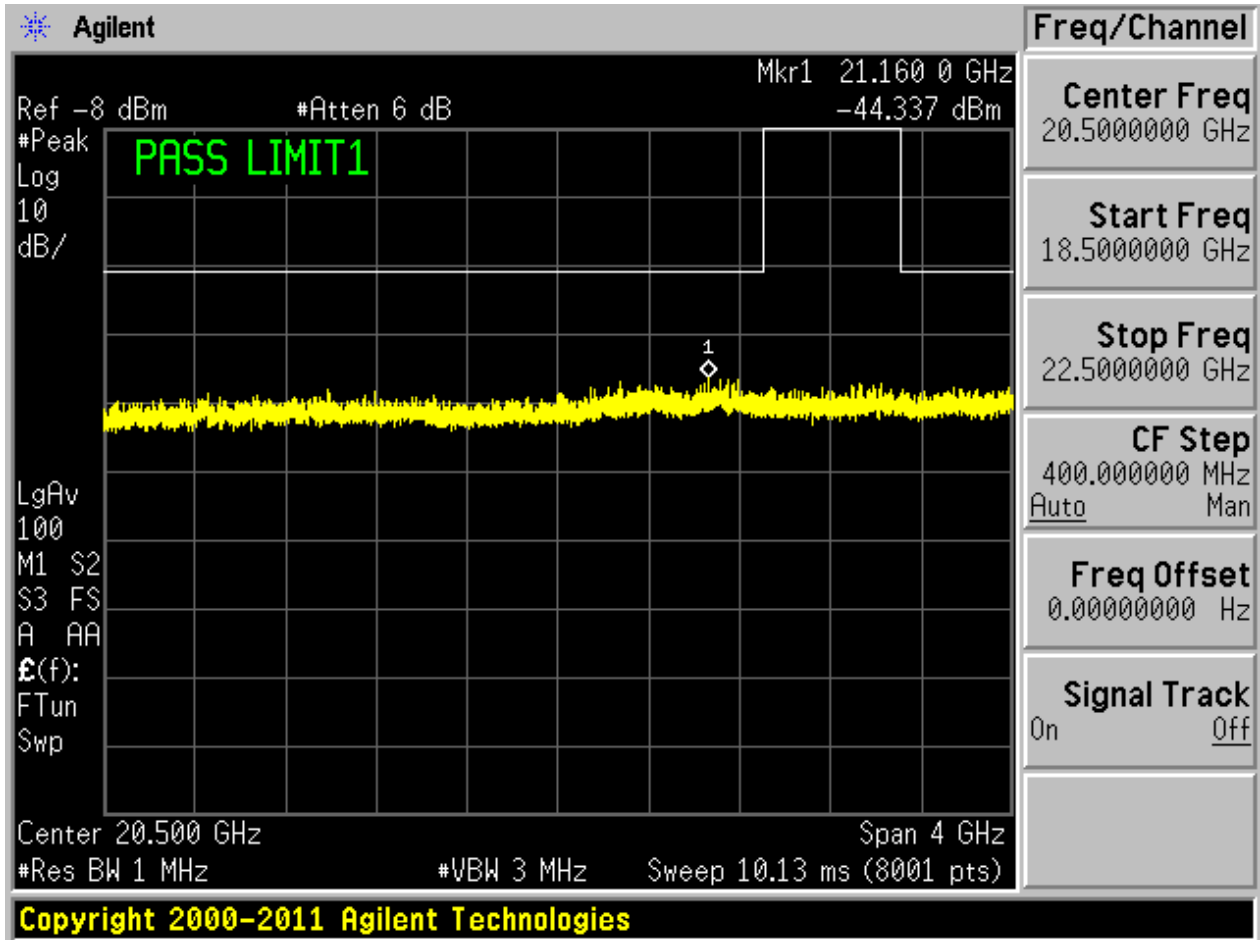


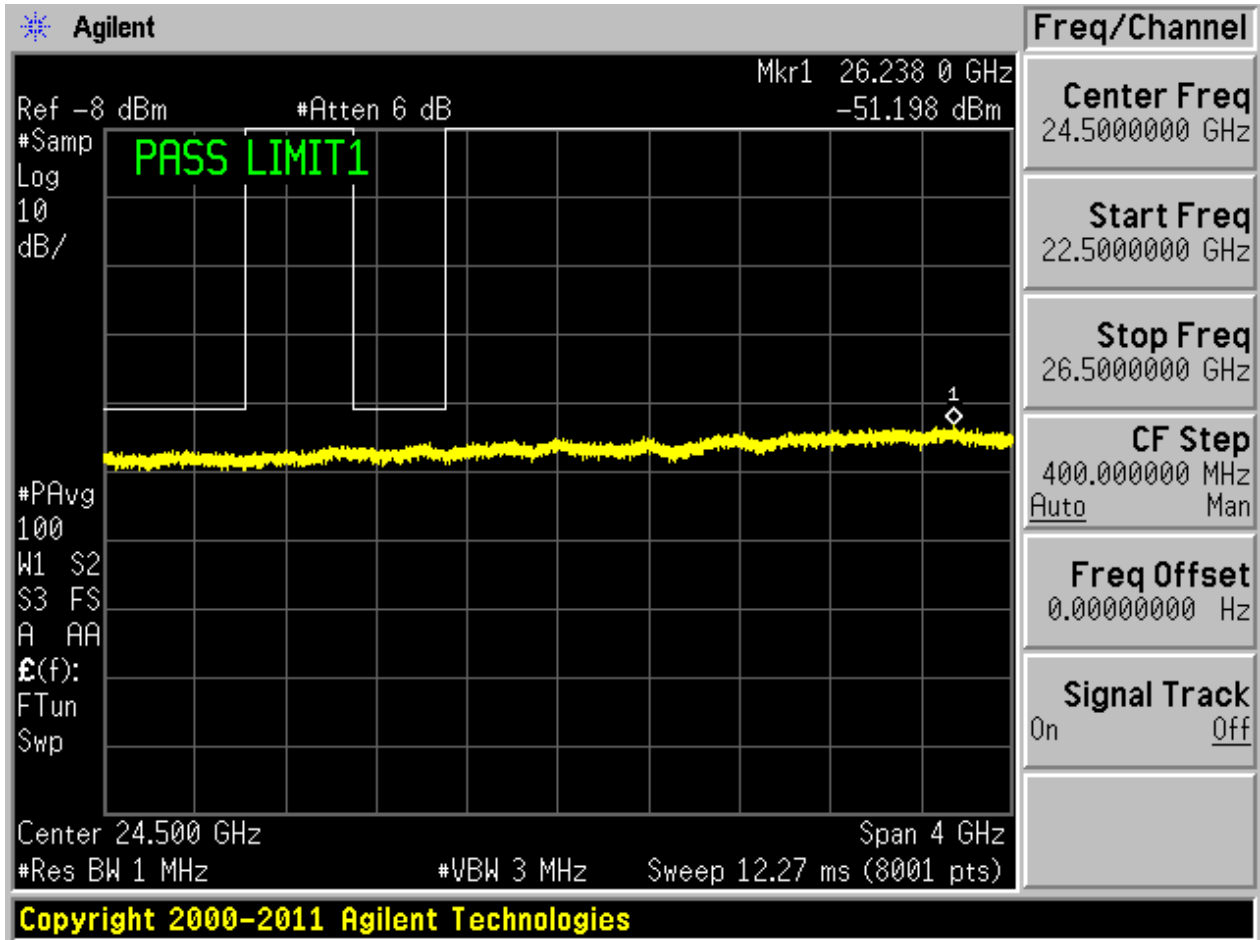


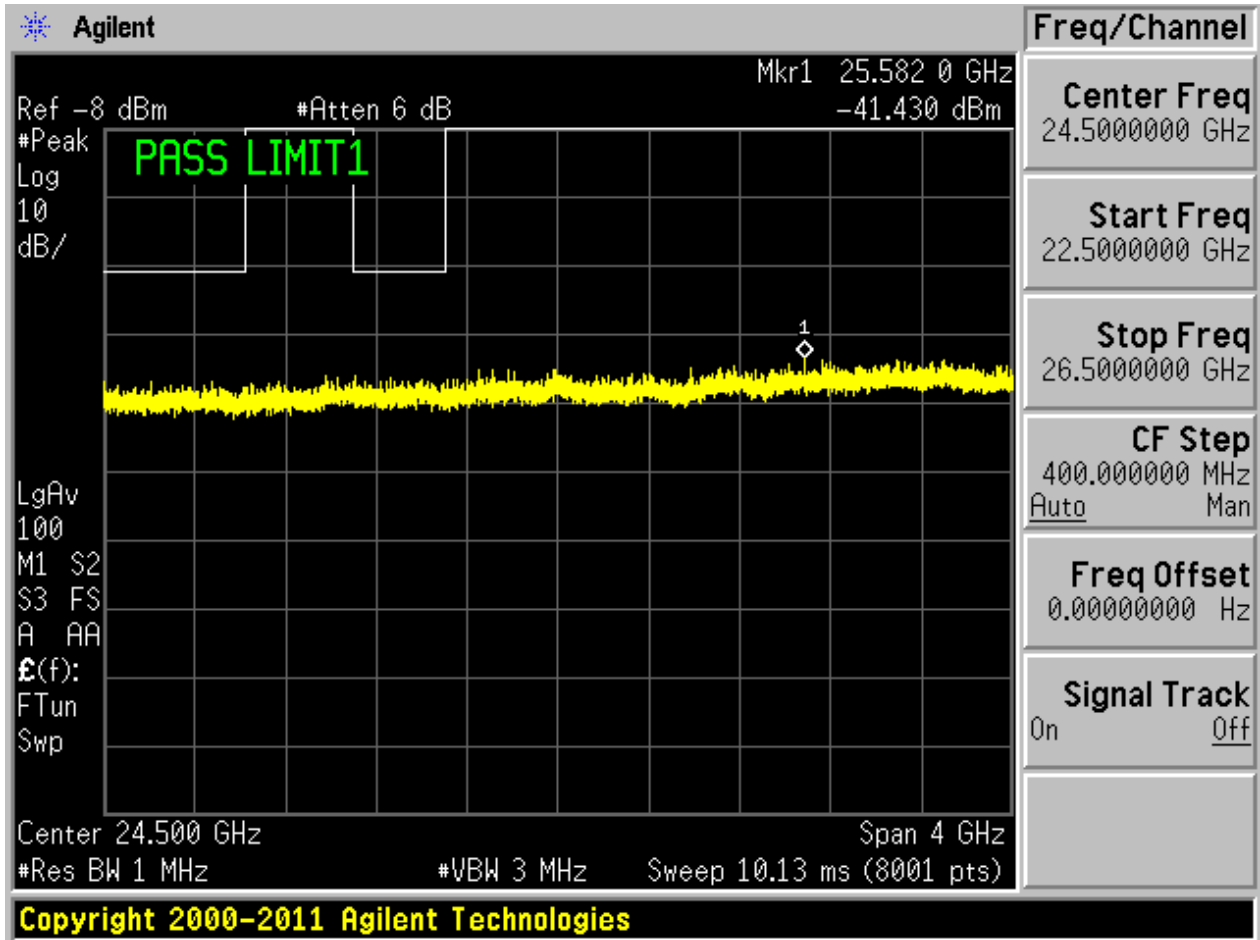












2.18.3 Trace#sum (if needed for final judgment)

(Not applicable)



Appendix F.2: Unwanted Emissions into Restricted Frequency Bands (Radiated)



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 Appendix, 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

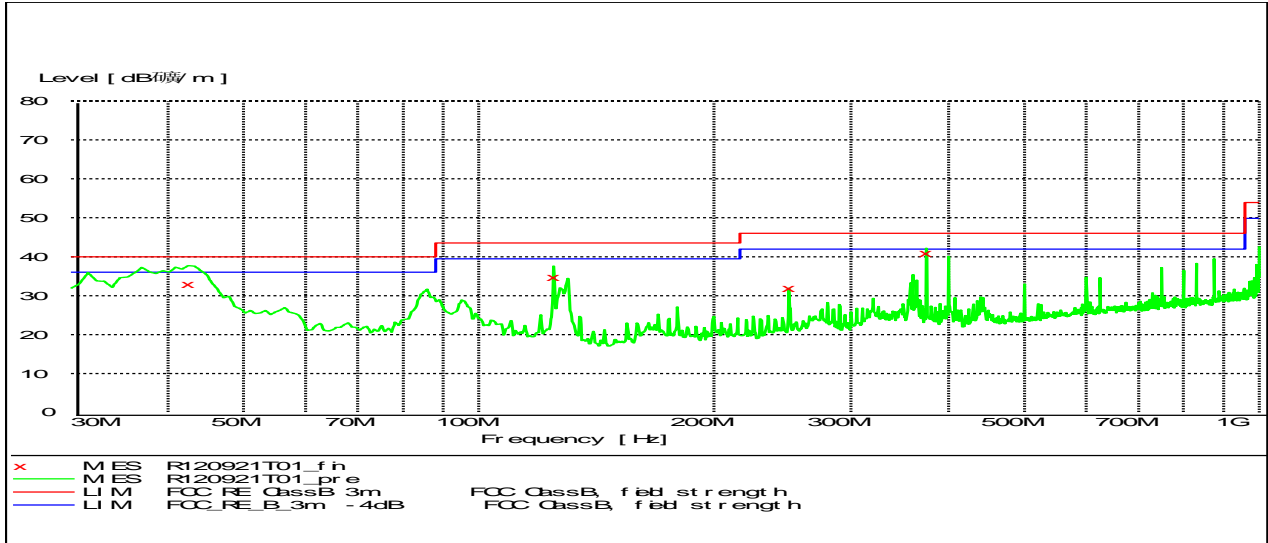
EUT Placement	Test Range	EUT Conf.	Emissions	Verdict
Flatwise	30 MHz to 1 GHz	Worst Case (11B/1_T@1)	< Limit	Pass
	1 GHz to 3 GHz	Worse Case (11B/1_B@1)	< Limit	Pass
		Worse Case (11B/1_M@1)	< Limit	Pass
		Worse Case (11B/1_T@1)	< Limit	Pass
		Worse Case (11Bd/1_B@1+2)	< Limit	Pass
		Worse Case (11Bd/1_M@1+2)	< Limit	Pass
		Worse Case (11Bd/1_T@1+2)	< Limit	Pass
		Worse Case (11N20/0_B@1)	< Limit	Pass
		Worse Case (11N20/0_M@1)	< Limit	Pass
		Worse Case (11N20/0_T@1)	< Limit	Pass
		Worse Case (11N20m/8_B@1+2)	< Limit	Pass
		Worse Case (11N20m/8_M@1+2)	< Limit	Pass
		Worse Case (11N20m/8_T@1+2)	< Limit	Pass
	3 GHz to 18 GHz	Worst Case (11B/1_T@1)	< Limit	Pass
	18 GHz to 26.5 GHz	Worst Case (11B/1_M@1)	< Limit	Pass

2 Result Plot

2.1 EUT Placement: Flatwise

2.1.1 Test range of "30 MHz to 1 GHz"

2.1.1.1 Worst Case (11B/1_T@1)



MEASUREMENT RESULT: "R120921T01_fin"

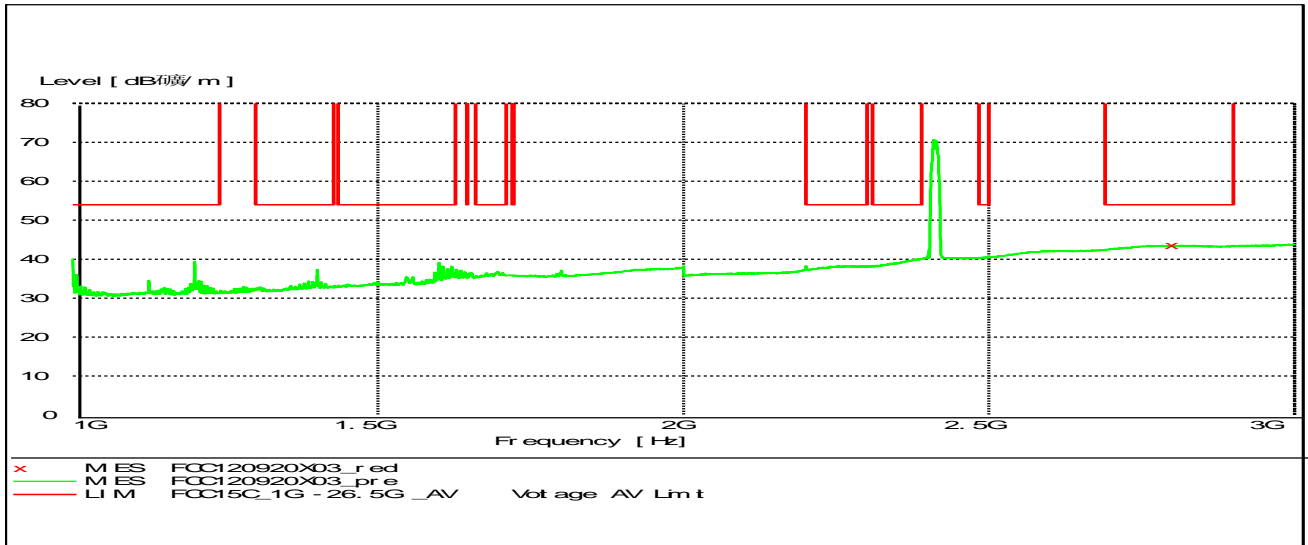
2012-9-21 7:58

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
42.540000	33.00	-12.4	40.0	7.0	QP	100.0	161.00	HORIZONTAL
124.980000	34.70	-14.3	43.5	8.8	QP	100.0	80.00	HORIZONTAL
250.020000	32.00	-10.1	46.0	14.0	QP	141.0	309.00	VERTICAL
375.000000	41.00	-6.7	46.0	5.0	QP	100.0	224.00	VERTICAL

2.1.2 Test range of "1 GHz to 3 GHz"

2.1.2.1 Worse Case (11B/1_B@1)

2.1.2.1.1 AV

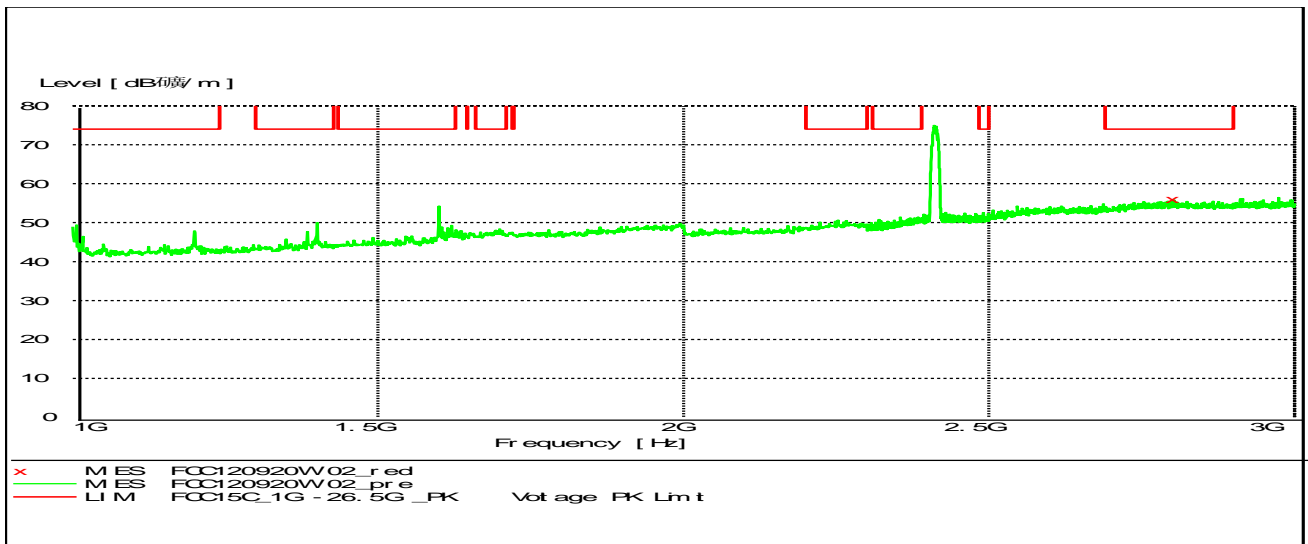


MEASUREMENT RESULT: "FCC120920X03_red"

2012-9-20 23:21

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det. dB	Height	Azimuth cm	Polarization deg
2801.600000	43.60	3.2	54.0	10.4	--	100.0	270.00	HORIZONTAL

2.1.2.1.2 PK



MEASUREMENT RESULT: "FCC120920W02_red"

2012-9-20 23:13

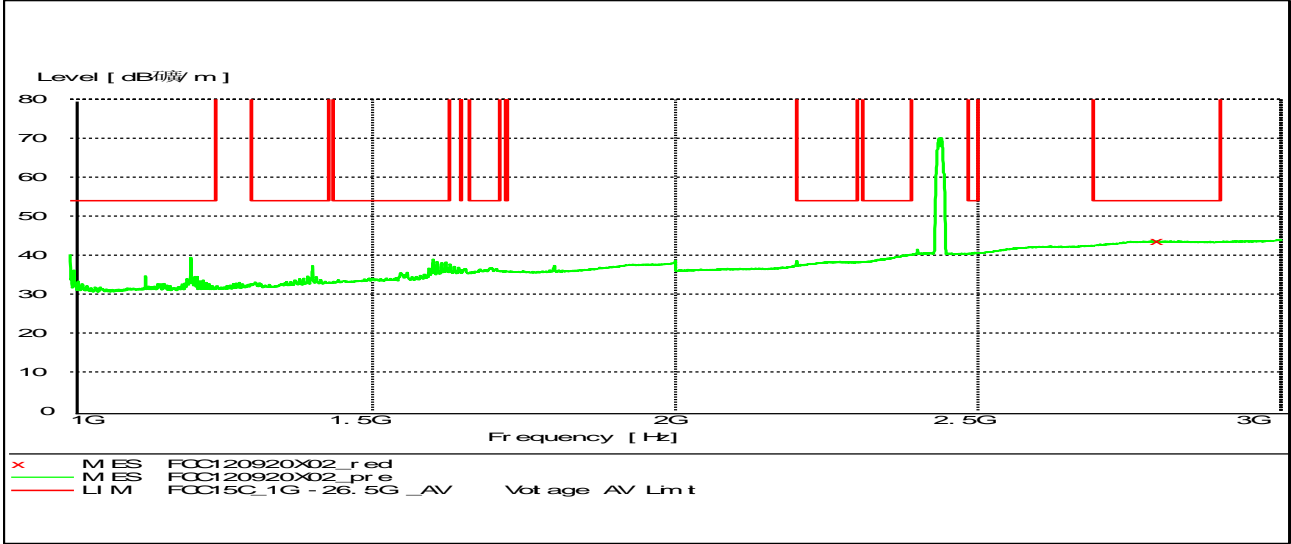
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
-----------	-------	--------	-------	--------	------	--------	---------	--------------



MHz	dBμV/m	dB	dBμV/m	dB	cm	deg
2802.400000	55.90	3.2	74.0	18.1	100.0	270.00 VERTICAL

2.1.2.2 Worse Case (11B/1_M@1)

2.1.2.2.1 AV

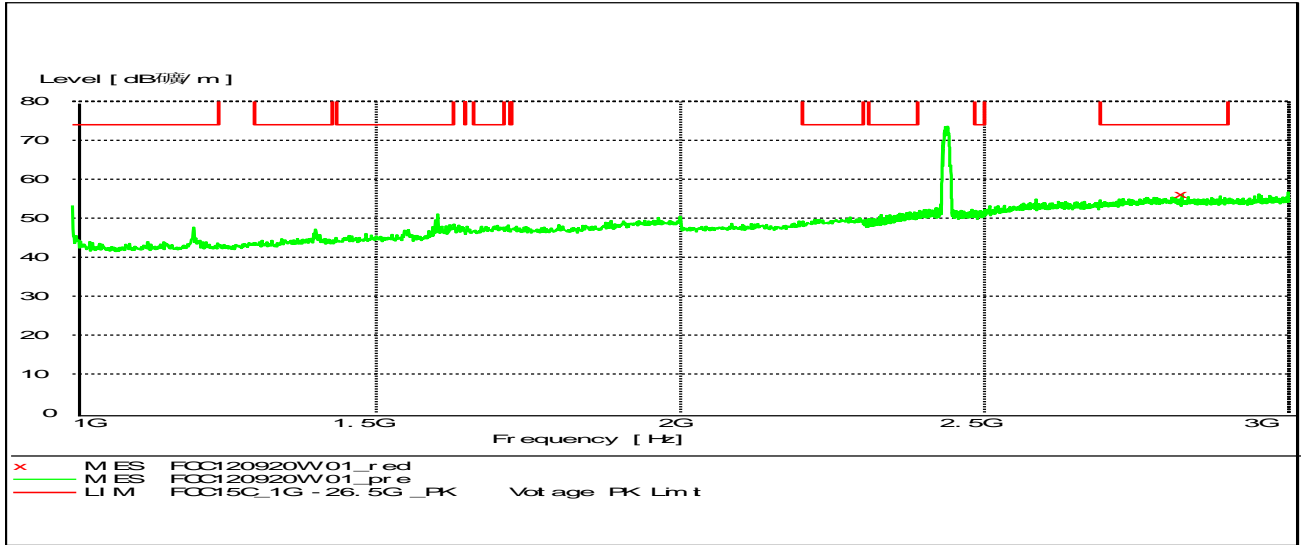


MEASUREMENT RESULT: "FCC120920X02_red"

2012-9-20 22:49

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
2797.600000	43.70	3.2	54.0	10.3	---	100.0	0.00	VERTICAL

2.1.2.2.2 PK



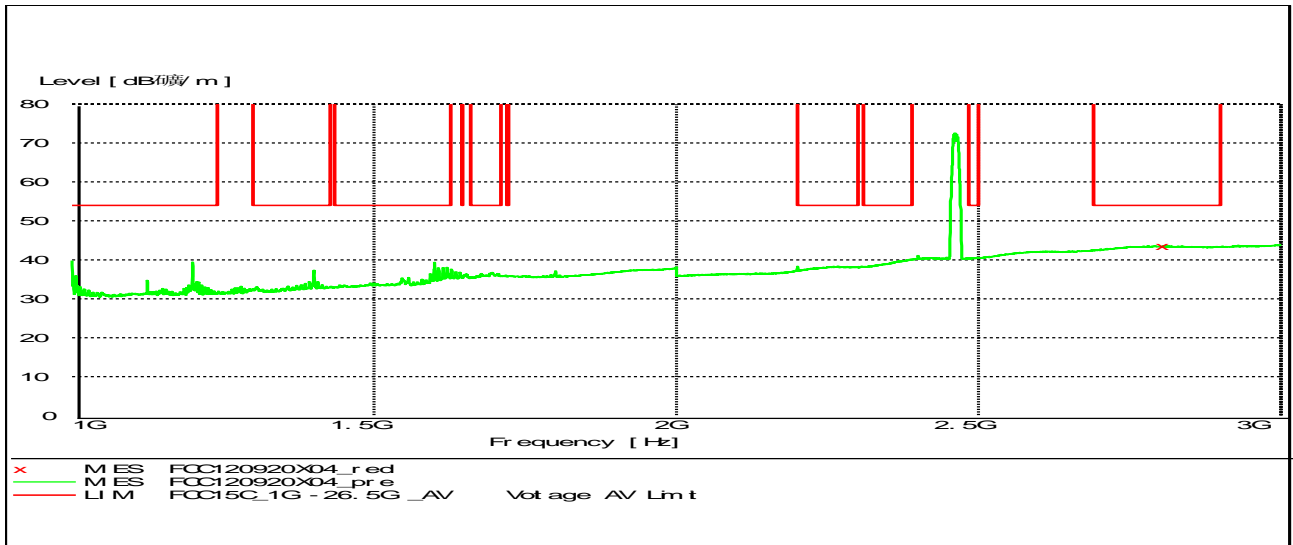
MEASUREMENT RESULT: "FCC120920W01_red"

2012-9-20 23:02

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth deg	Polarization
2824.800000	56.10	3.3	74.0	17.9	--	100.0	0.00	VERTICAL

2.1.2.3 Worse Case (11B/1_T@1)

2.1.2.3.1 AV



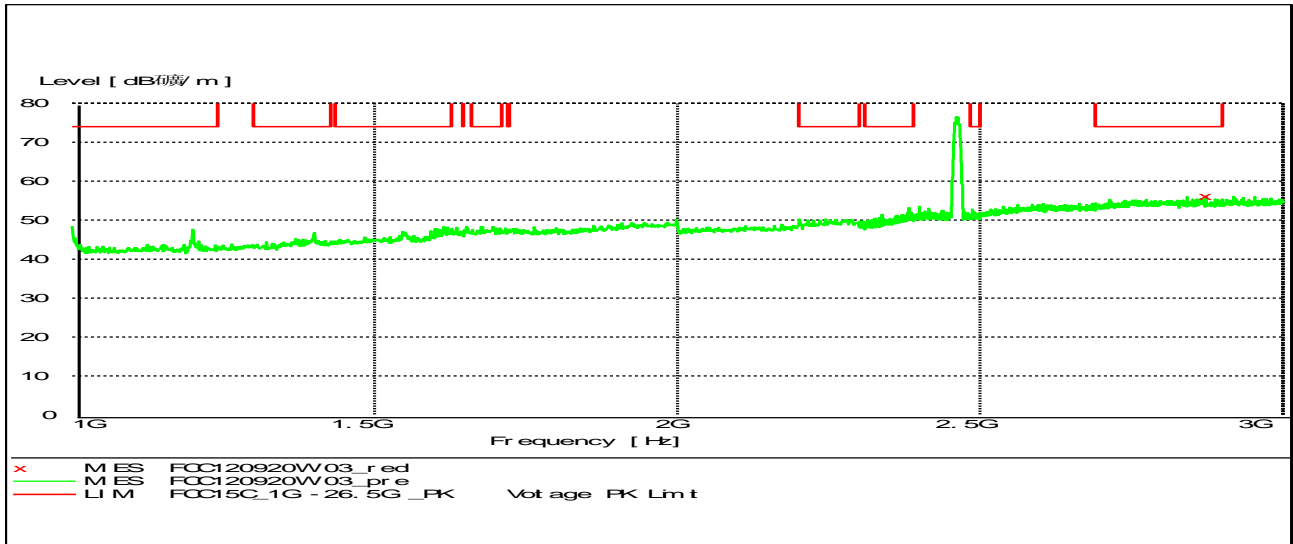
MEASUREMENT RESULT: "FCC120920X04_red"



2012-9-20 23:30

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2806.000000	43.60	3.2	54.0	10.4	---	200.0	180.00	HORIZONTAL

2.1.2.3.2 PK



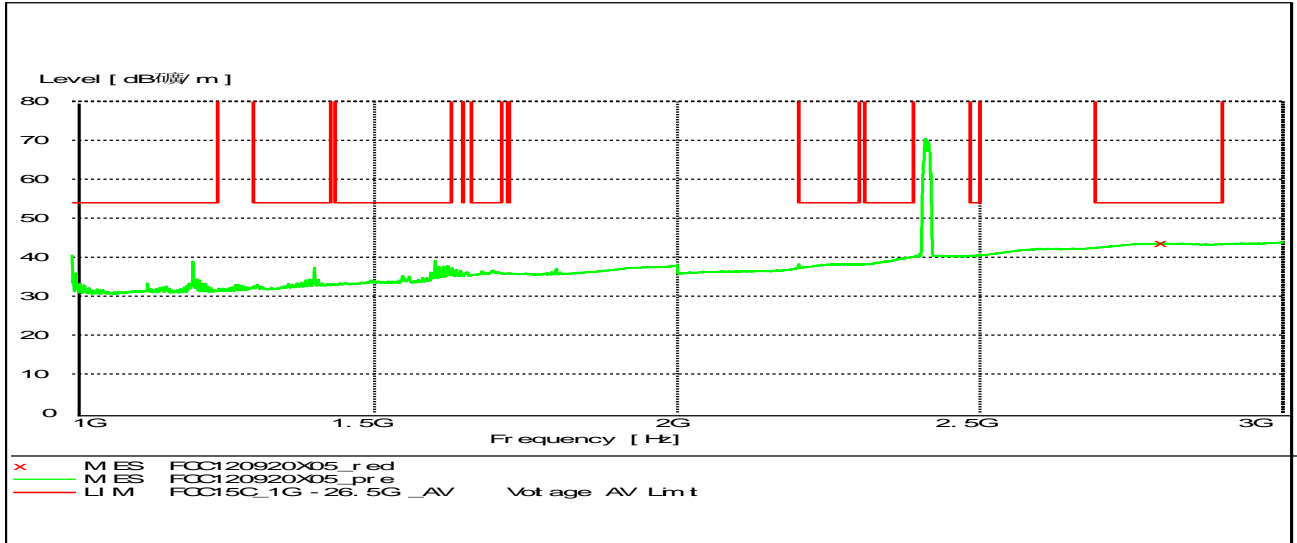
MEASUREMENT RESULT: "FCC120920W03_red"

2012-9-20 23:42

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2873.200000	56.20	3.4	74.0	17.8	---	100.0	0.00	VERTICAL

2.1.2.4 Worse Case (11Bd/1_B@1+2)

2.1.2.4.1 AV

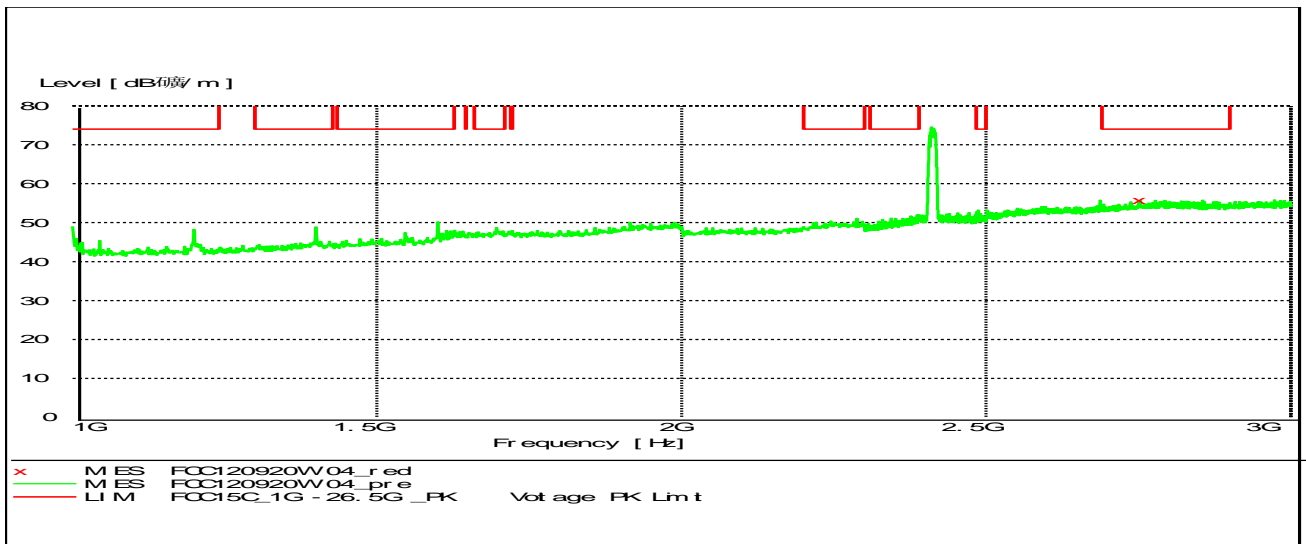


MEASUREMENT RESULT: "FCC120920X05_red"

2012-9-21 0:02

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dB μ V/m	dB	dB μ V/m	dB	dB	cm	cm	deg
2800.000000	43.70	3.2	54.0	10.3	---	100.0	270.00	VERTICAL

2.1.2.4.2 PK



MEASUREMENT RESULT: "FCC120920W04_red"

2012-9-20 23:54

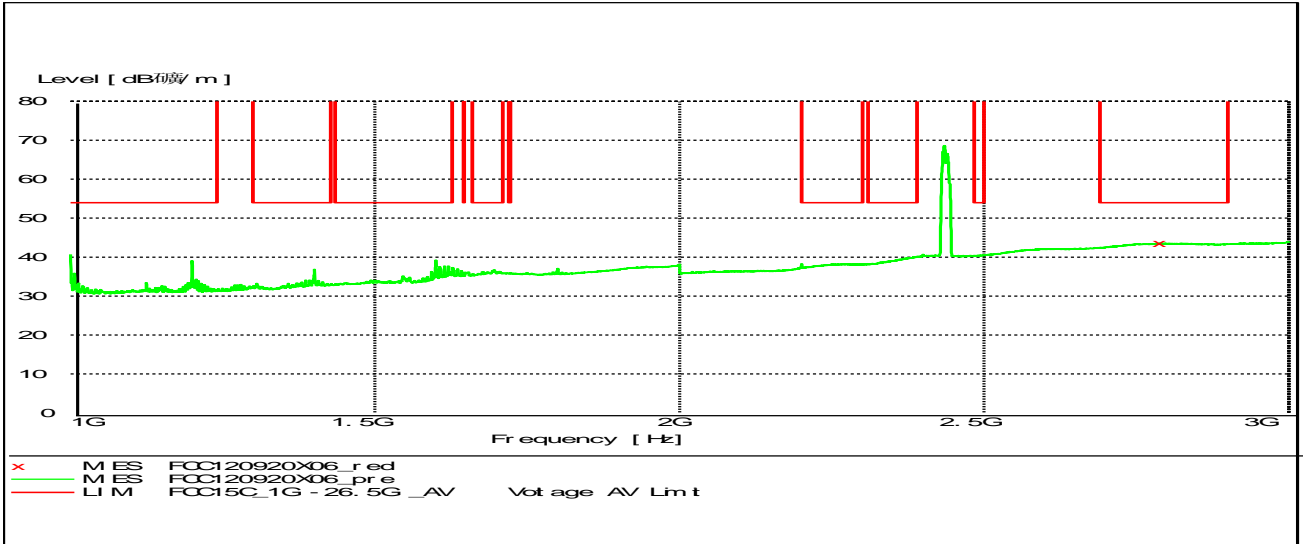
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
-----------	-------	--------	-------	--------	------	--------	---------	--------------



MHz	dBμV/m	dB	dBμV/m	dB	cm	deg
2752.800000	55.80	3.0	74.0	18.2	100.0	90.00 VERTICAL

2.1.2.5 Worse Case (11Bd/1_M@1+2)

2.1.2.5.1 AV

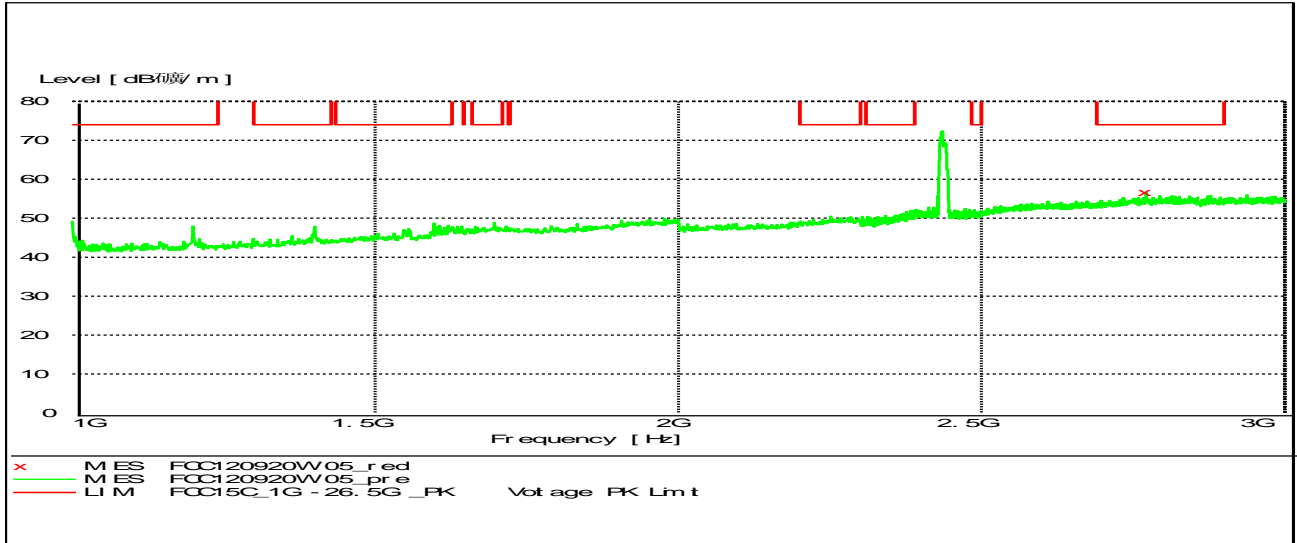


MEASUREMENT RESULT: "FCC120920X06_red"

2012-9-21 0:11

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
2789.200000	43.60	3.1	54.0	10.4	---	100.0	0.00	VERTICAL

2.1.2.5.2 PK



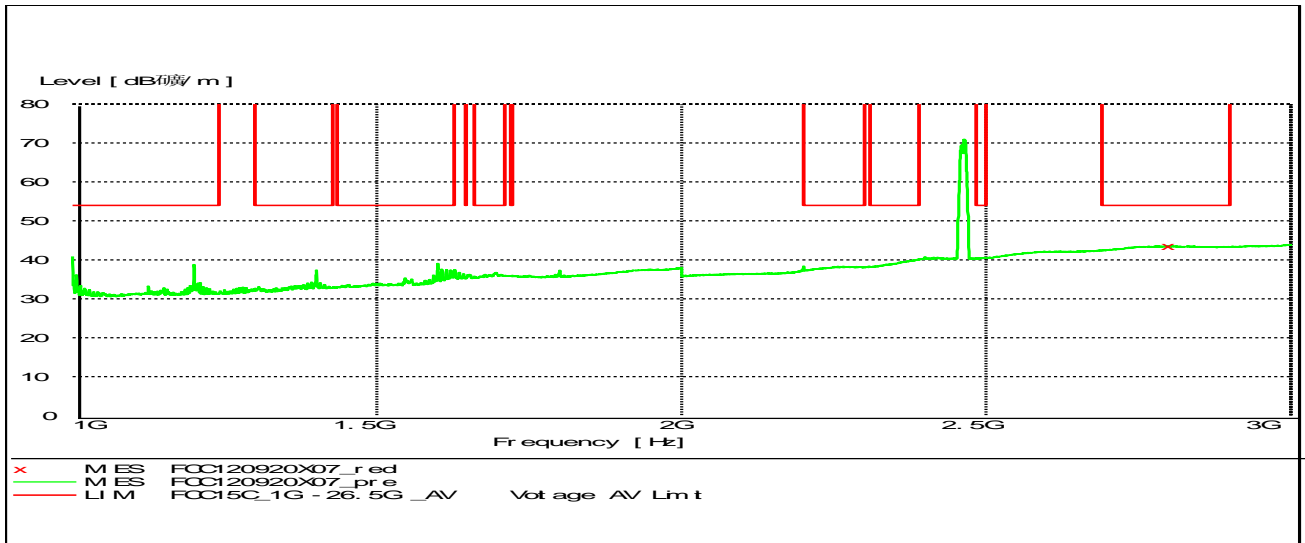
MEASUREMENT RESULT: "FCC120920W05_red"

2012-9-21 0:22

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth deg	Polarization deg
2771.600000	56.70	3.1	74.0	17.3	--	100.0	0.00	VERTICAL

2.1.2.6 Worse Case (11Bd/1_T@1+2)

2.1.2.6.1 AV



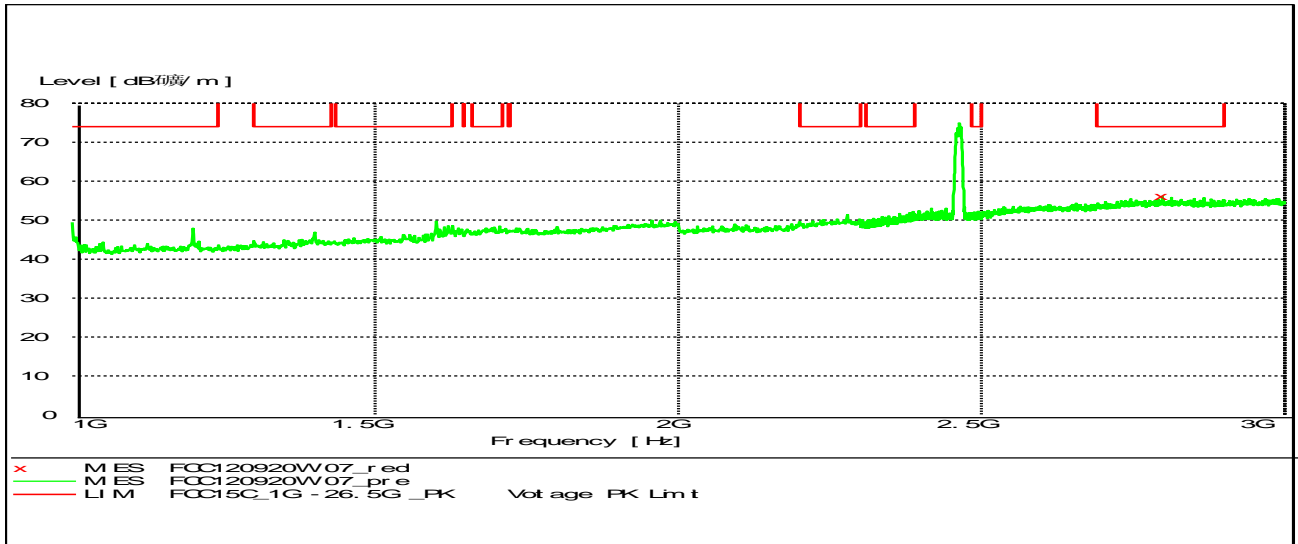
MEASUREMENT RESULT: "FCC120920X07_red"



2012-9-21 0:52

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2800.000000	43.60	3.2	54.0	10.4	---	200.0	90.00	HORIZONTAL

2.1.2.6.2 PK



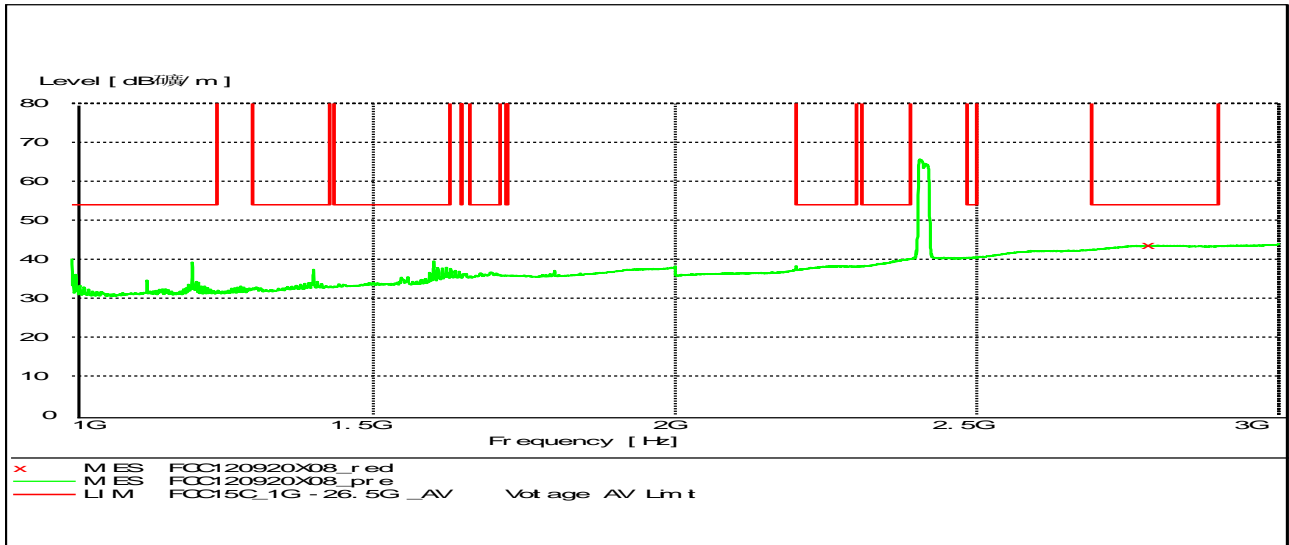
MEASUREMENT RESULT: "FCC120920W07_red"

2012-9-21 1:03

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2798.400000	56.10	3.2	74.0	17.9	---	100.0	270.00	HORIZONTAL

2.1.2.7 Worse Case (11N20/0_B@1)

2.1.2.7.1 AV

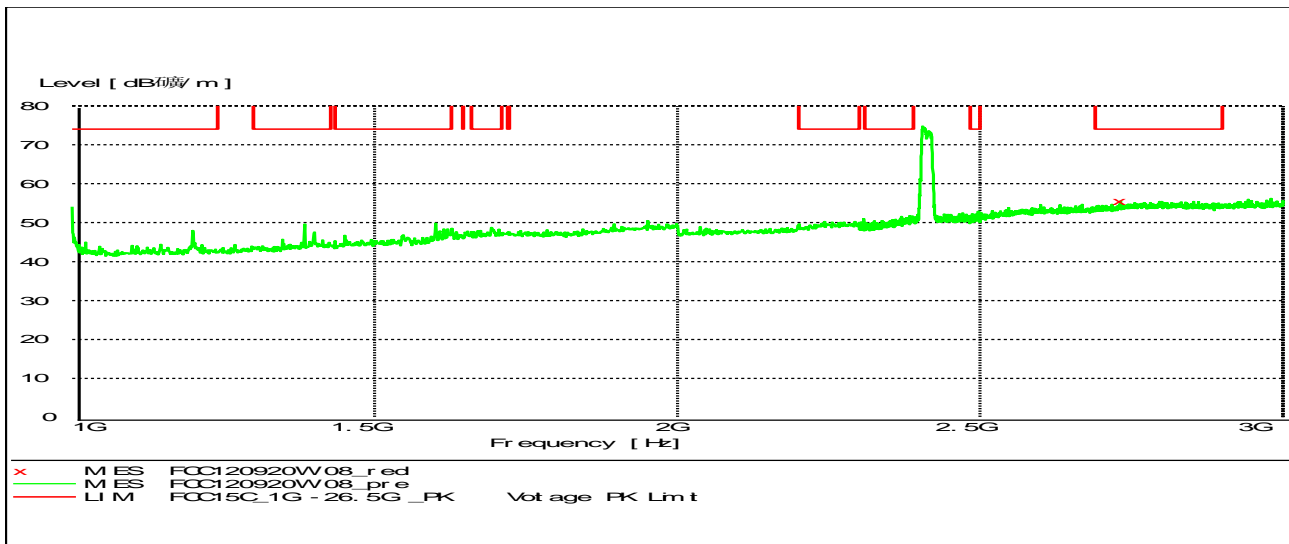


MEASUREMENT RESULT: "FCC120920X08_red"

2012-9-21 1:25

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	cm	deg
2786.000000	43.60	3.1	54.0	10.4	---	200.0	0.00	VERTICAL

2.1.2.7.2 PK



MEASUREMENT RESULT: "FCC120920W08_red"

2012-9-21 1:17

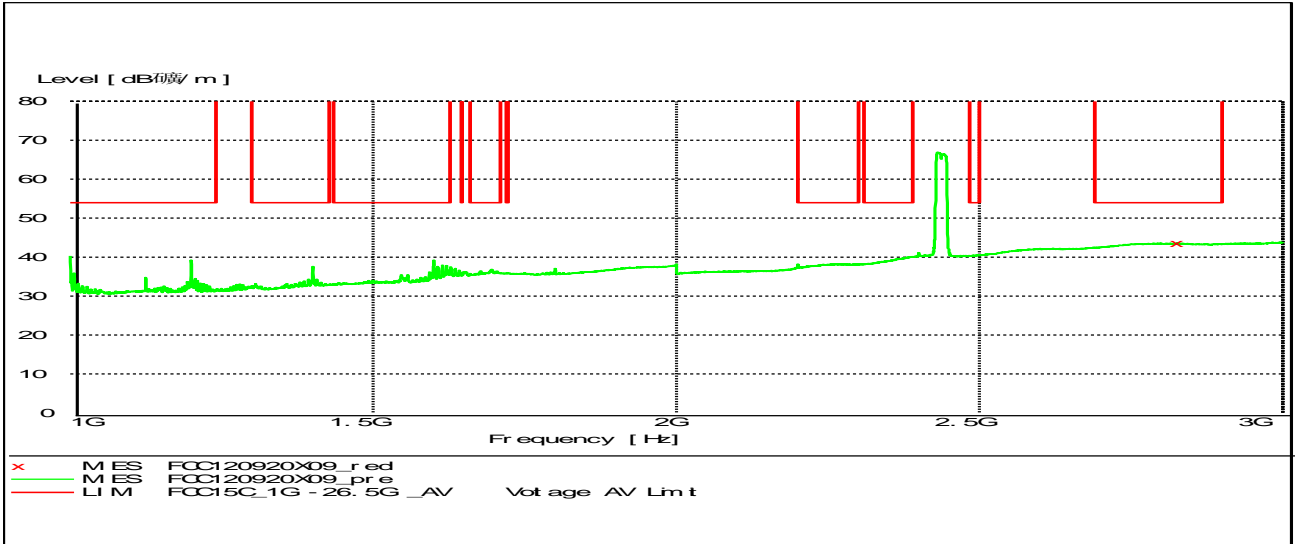
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
-----------	-------	--------	-------	--------	------	--------	---------	--------------



MHz	dBμV/m	dB	dBμV/m	dB		cm	deg
2731.200000	55.60	2.8	74.0	18.4	---	100.0	180.00 HORIZONTAL

2.1.2.8 Worse Case (11N20/0_M@1)

2.1.2.8.1 AV

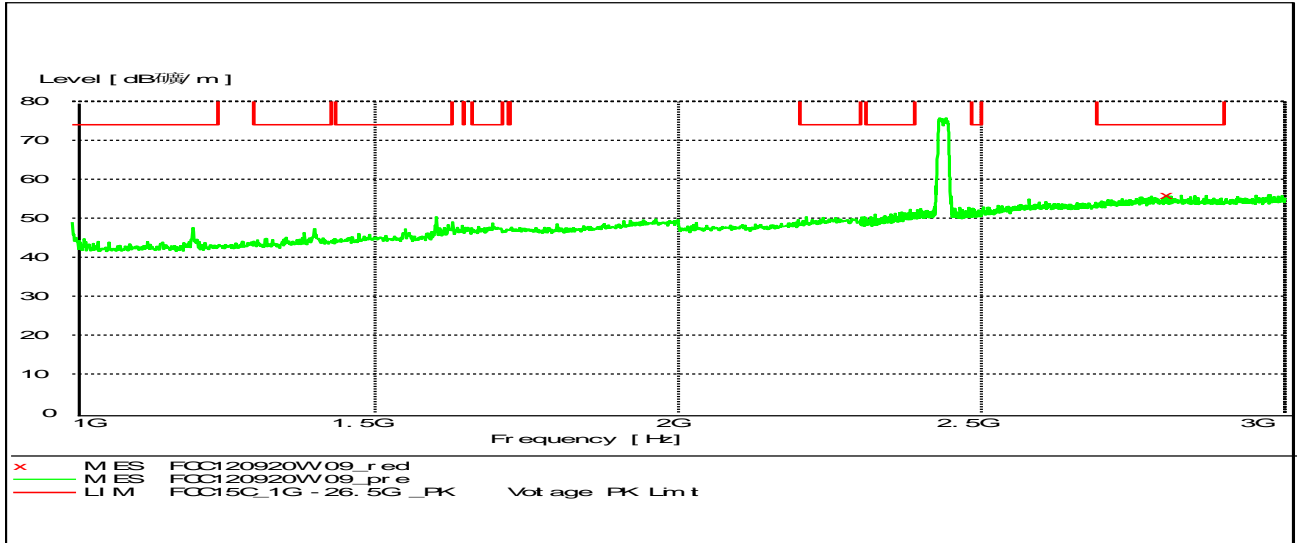


MEASUREMENT RESULT: "FCC120920X09_red"

2012-9-21 1:34

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	deg	deg
2827.600000	43.70	3.3	54.0	10.3	---	100.0	0.00 HORIZONTAL	

2.1.2.8.2 PK



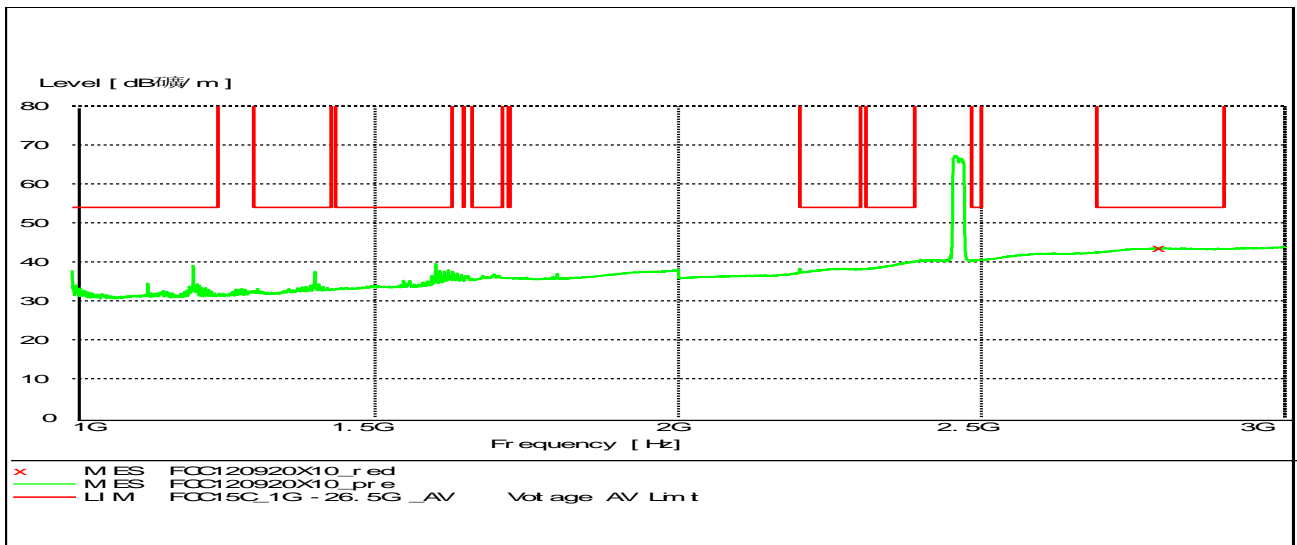
MEASUREMENT RESULT: "FCC120920W09_red"

2012-9-21 1:45

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det. dB	Height cm	Azimuth deg	Polarization
2806.400000	55.90	3.2	74.0	18.1	---	100.0	90.00	VERTICAL

2.1.2.9 Worse Case (11N20/0_T@1)

2.1.2.9.1 AV



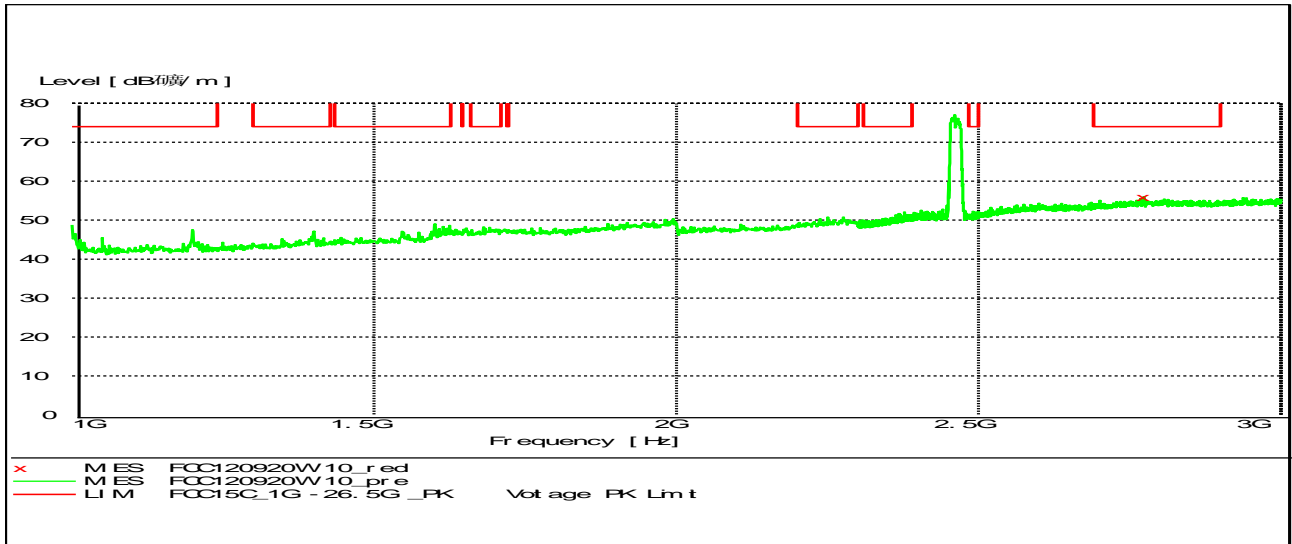
MEASUREMENT RESULT: "FCC120920X10_red"



2012-9-21 2:05

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2793.600000	43.60	3.2	54.0	10.4	---	200.0	270.00	VERTICAL

2.1.2.9.2 PK



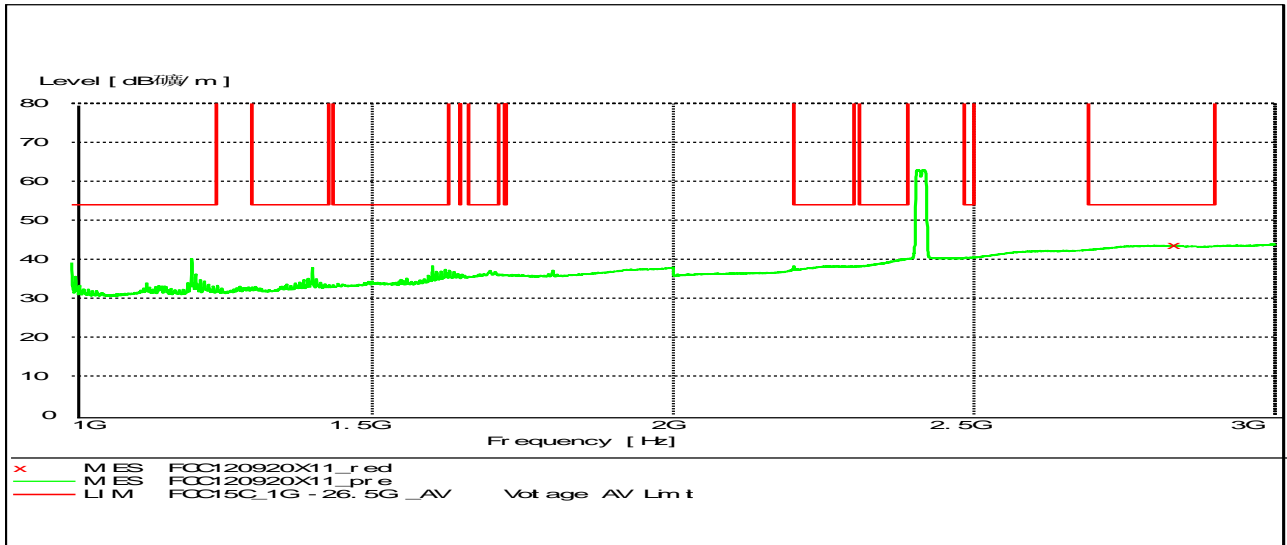
MEASUREMENT RESULT: "FCC120920W10_red"

2012-9-21 1:58

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2773.600000	56.00	3.1	74.0	18.0	---	100.0	270.00	HORIZONTAL

2.1.2.10 Worse Case (11N20m/8_B@1+2)

2.1.2.10.1 AV

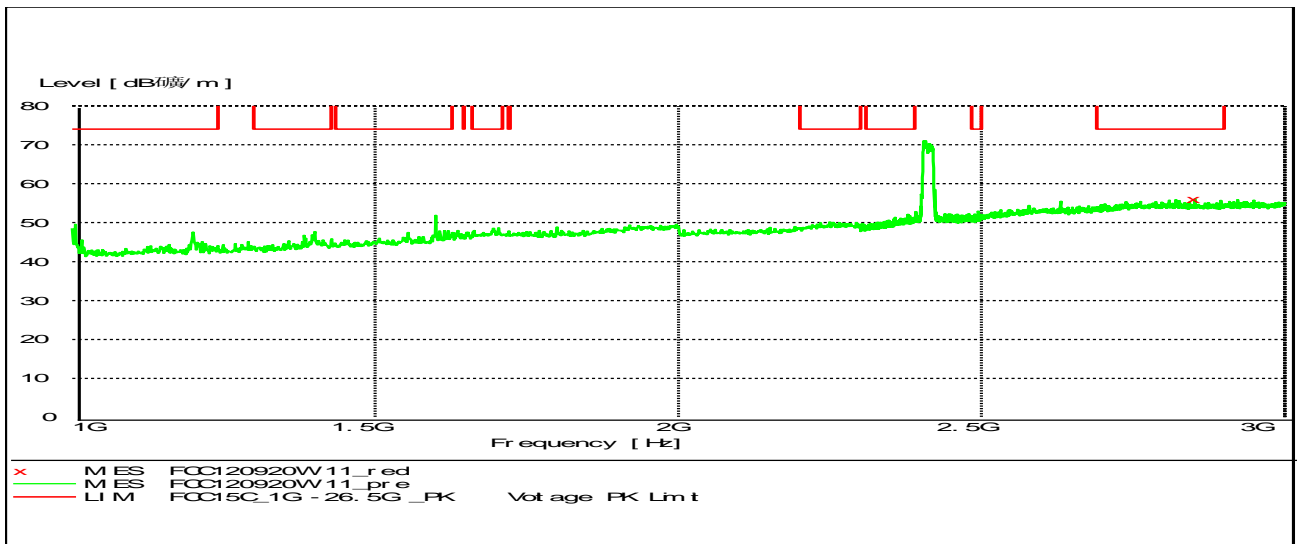


MEASUREMENT RESULT: "FCC120920X11_red"

2012-9-21 2:59

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2834.400000	43.60	3.3	54.0	10.4	--	200.0	270.00	HORIZONTAL

2.1.2.10.2 PK



MEASUREMENT RESULT: "FCC120920W11_red"

2012-9-21 3:10

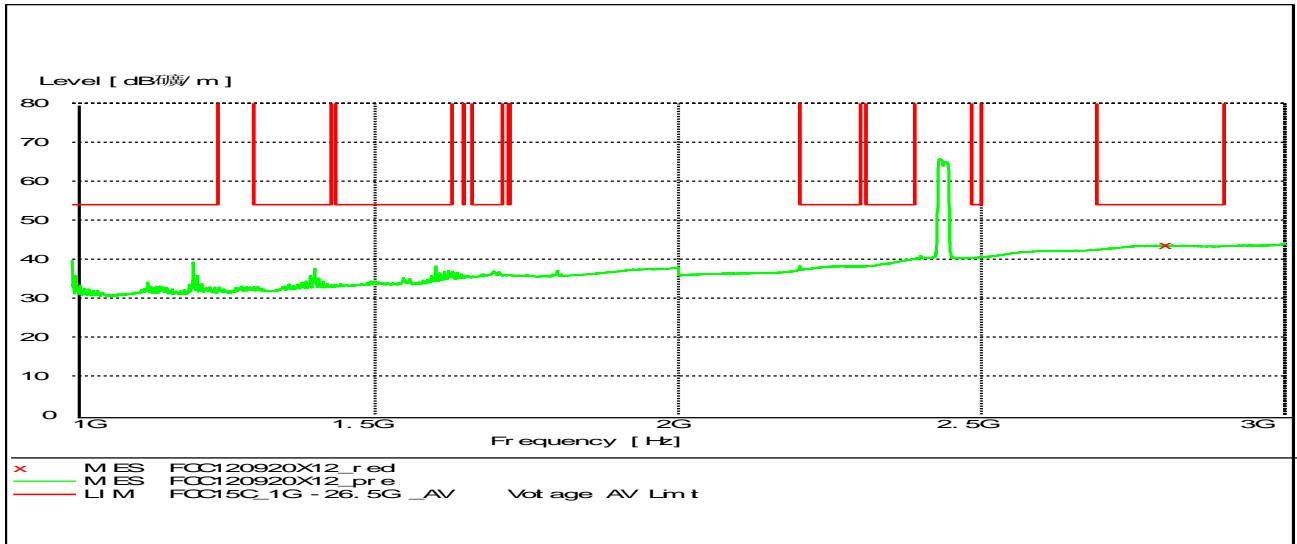
Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
-----------	-------	--------	-------	--------	------	--------	---------	--------------



MHz	dB μ V/m	dB	dB μ V/m	dB	cm	deg
2852.000000	56.10	3.4	74.0	17.9	100.0	180.00 VERTICAL

2.1.2.11 Worse Case (11N20m/8_M@1+2)

2.1.2.11.1 AV

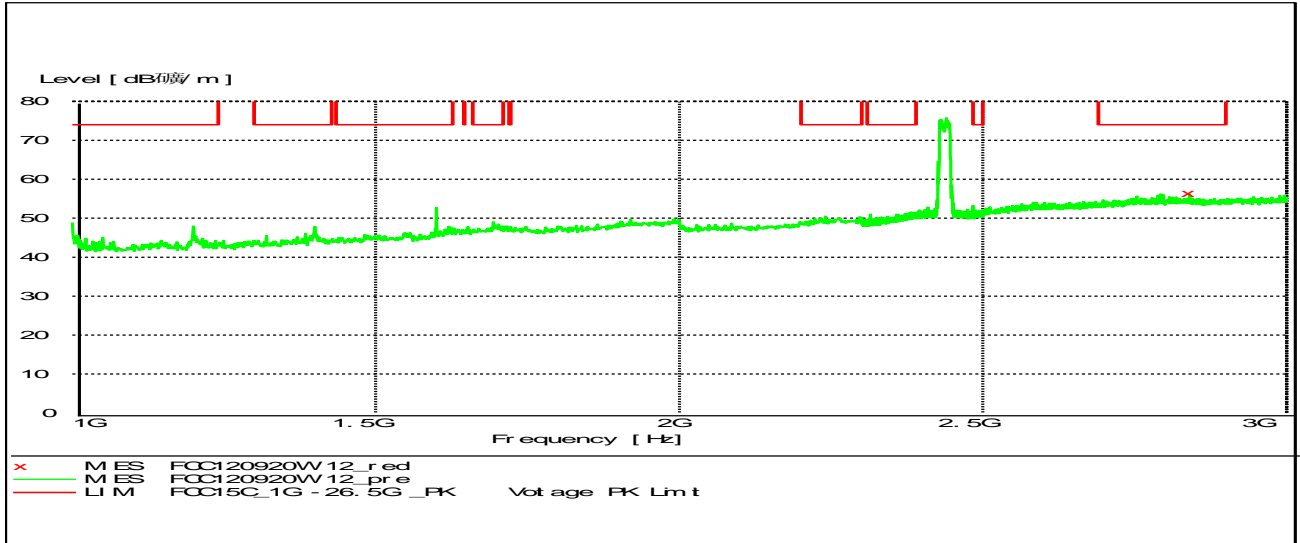


MEASUREMENT RESULT: "FCC120920X12_red"

2012-9-21 3:29

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dB μ V/m	dB	dB μ V/m	dB	dB	cm	deg	deg
2804.400000	43.60	3.2	54.0	10.4	---	200.0	180.00	VERTICAL

2.1.2.11.2 PK



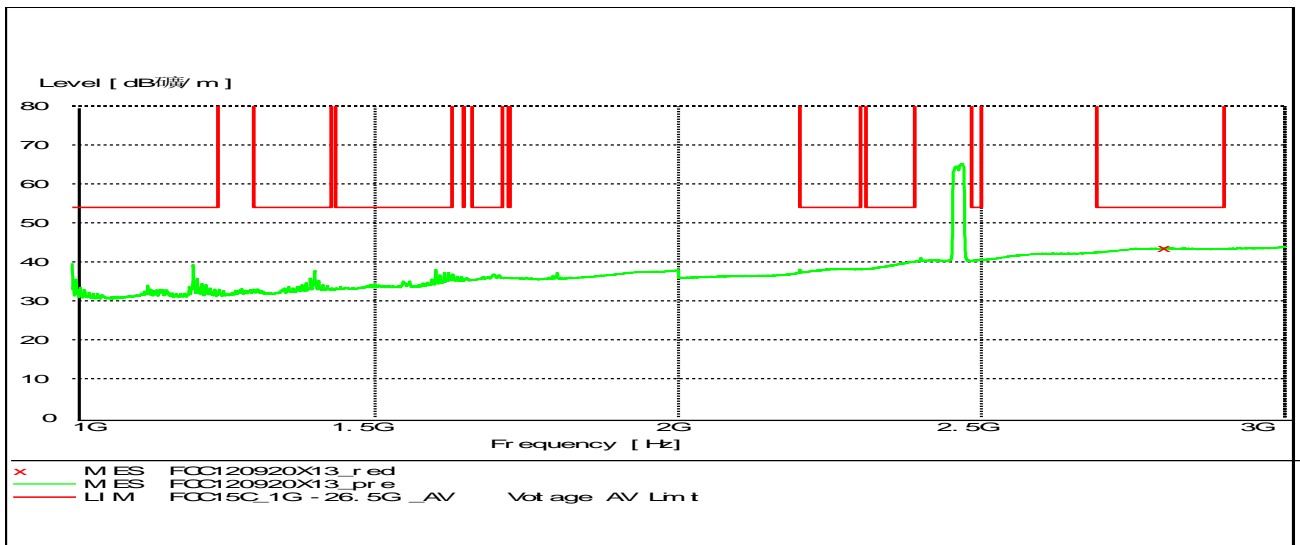
MEASUREMENT RESULT: "FCC120920W12_red"

2012-9-21 3:22

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth deg	Polarization deg
2840.000000	56.30	3.3	74.0	17.7	--	100.0	90.00	VERTICAL

2.1.2.12 Worse Case (11N20m/8_T@1+2)

2.1.2.12.1 AV

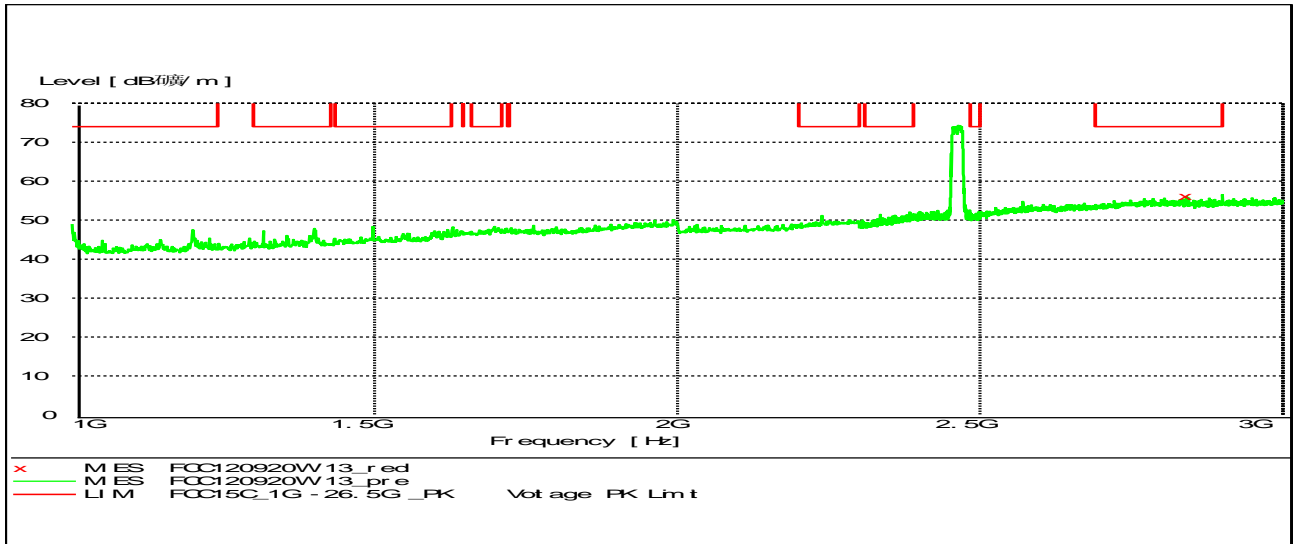


MEASUREMENT RESULT: "FCC120920X13_red"

2012-9-21 3:38

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2804.000000	43.60	3.2	54.0	10.4	---	100.0	90.00	HORIZONTAL

2.1.2.12.2 PK



MEASUREMENT RESULT: "FCC120920W13_red"

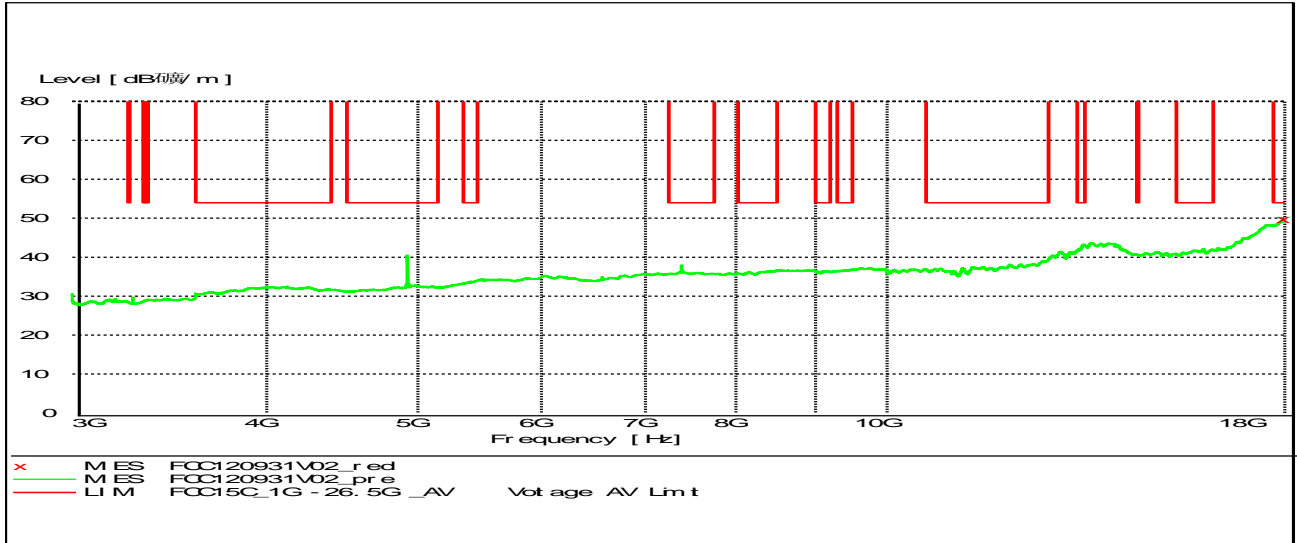
2012-9-21 3:50

Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Det. dB	Height cm	Azimuth cm	Polarization deg
2840.800000	56.10	3.3	74.0	17.9	---	100.0	180.00	VERTICAL

2.1.3 Test range of "3 GHz to 18 GHz"

2.1.3.1 Worst Case (11B/1_T@1)

2.1.3.1.1 AV

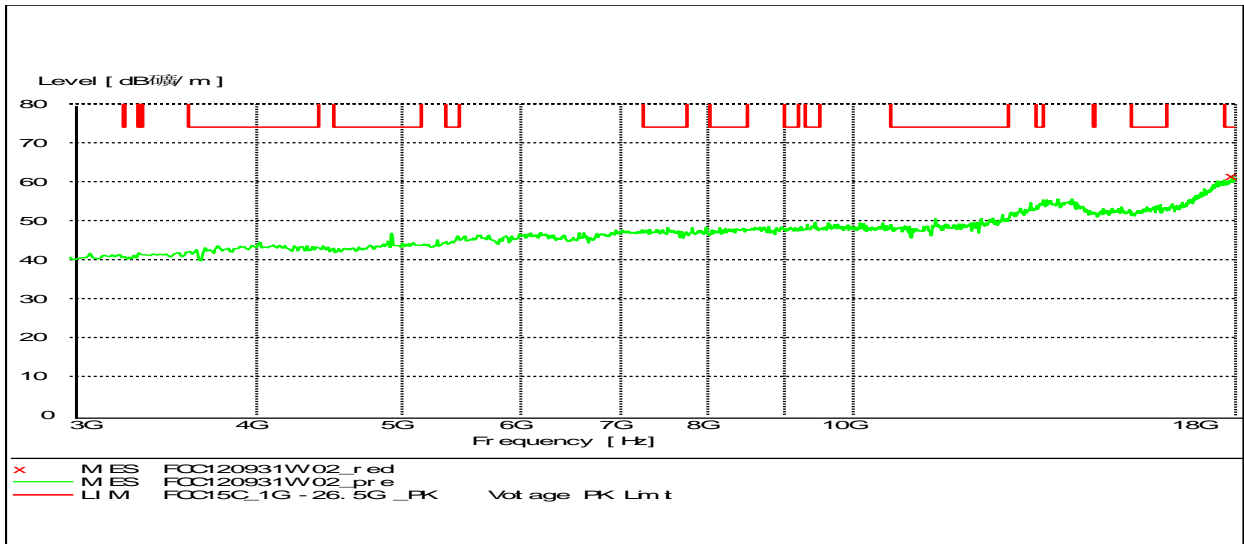


MEASUREMENT RESULT: "FCC120931V02_red"

2012-9-21 7:08

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	cm	deg
17993.600000	49.80	29.4	54.0	4.2	---	200.0	180.00	HORIZONTAL

2.1.3.1.2 PK



MEASUREMENT RESULT: "FCC120931W02_red"

2012-9-21 7:30

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
-----------	-------	--------	-------	--------	------	--------	---------	--------------

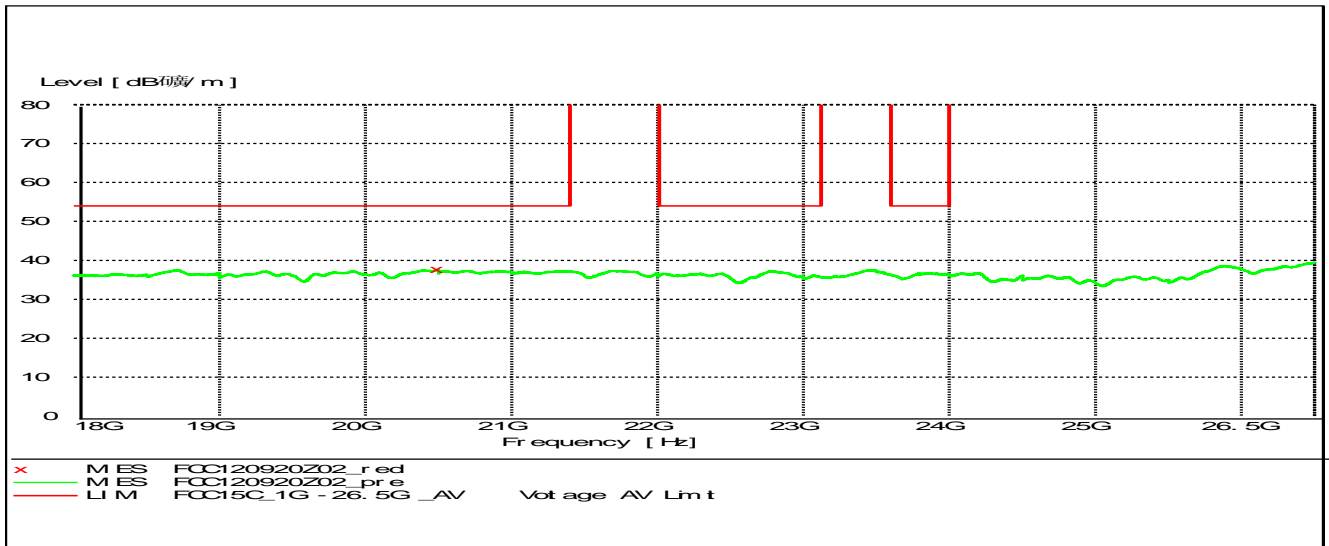


MHz	dB μ V/m	dB	dB μ V/m	dB	cm	deg
17916.000000	61.50	28.9	74.0	12.5	---	200.0 0.00 VERTICAL

2.1.4 Test range of “18 GHz to 26.5 GHz”

2.1.4.1 Worst Case (11B/1_M@1)

2.1.4.1.1 AV

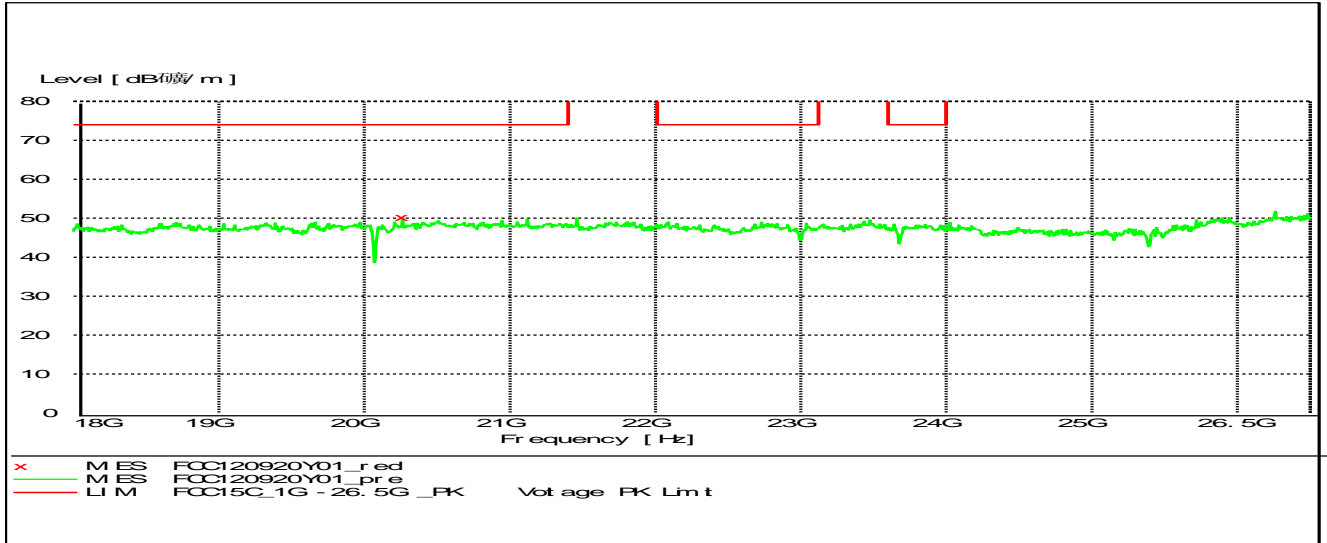


MEASUREMENT RESULT: "FCC120920Z02_red"

2012-9-20 21:20

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dB μ V/m	dB	dB μ V/m	dB	dB	cm	cm	deg
20495.200000	37.70	29.9	54.0	16.3	---	100.0	0.00	HORIZONTAL

2.1.4.1.2 PK



MEASUREMENT RESULT: "FCC120920Y01_red"

2012-9-20 21:39

Frequency	Level	Transd	Limit	Margin	Det.	Height	Azimuth	Polarization
MHz	dBμV/m	dB	dBμV/m	dB	dB	cm	cm	deg
20264.400000	50.20	29.4	74.0	23.8	---	200.0	180.00	VERTICAL



Appendix G: Receiver Spurious Emissions



The whole testing range is from “30 MHz to 8 GHz (3rd harmonics)” is divided into 2 parts according to the test site settings, which are:

- (Part 1): Test range of “30 MHz to 1 GHz”, and
- (Part 2): Test range of “1 GHz to 8 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 Appendix, 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

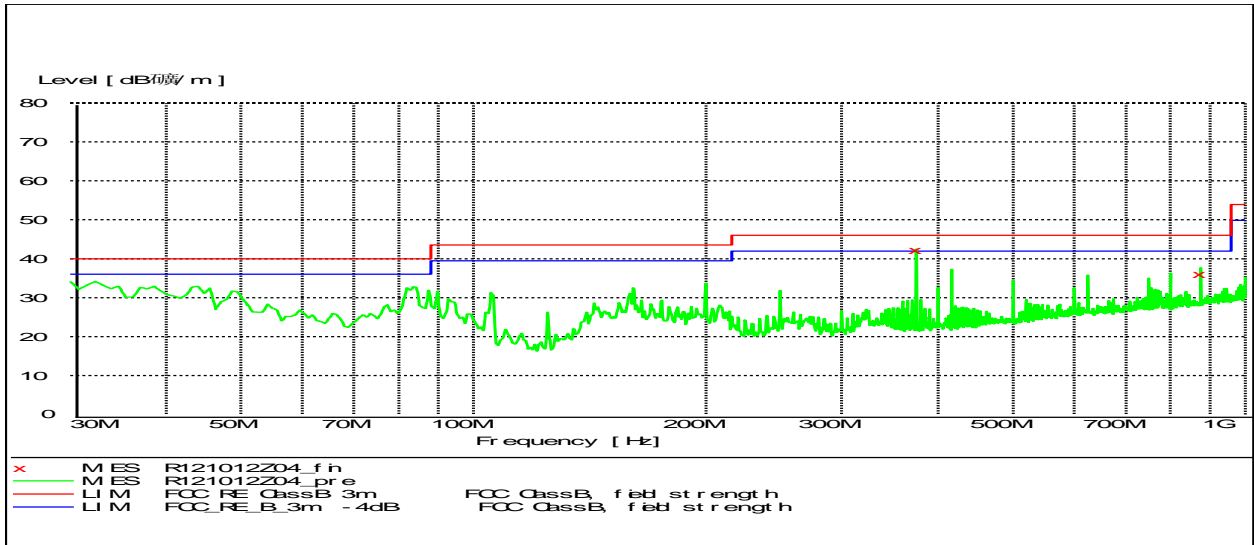
EUT Placement	Test Range	EUT Conf.	Emissions	Verdict
Flatwise	30 MHz to 1 GHz	11x_RX	< Limit	Pass
	1 GHz to 8 GHz	11x_RX	< Limit	Pass

2 Result Plot

2.1 EUT Placement: Flatwise

2.1.1 Testing Range of "30 MHz to 1 GHz"

2.1.1.1 11x_RX



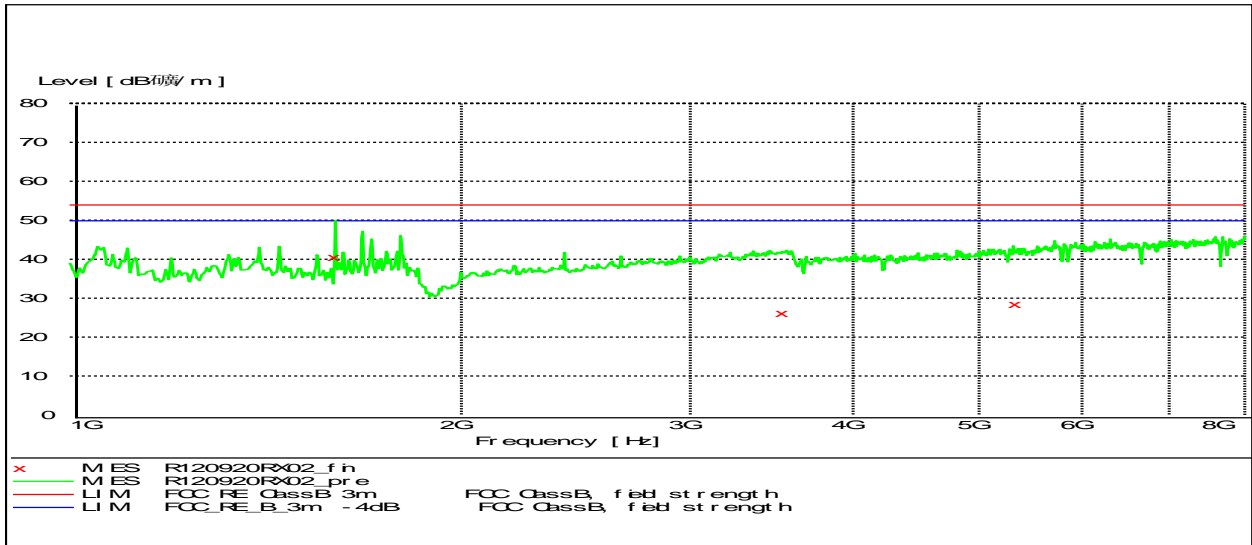
MEASUREMENT RESULT: "R121012Z04_fin"

2012-10-12 10:38

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height	Azimuth cm	Polarization deg
375.000000	42.30	-6.7	46.0	3.7	QP	100.0	237.00	HORIZONTAL
874.980000	36.00	1.0	46.0	10.0	QP	100.0	260.00	HORIZONTAL

2.1.2 Testing Range of "1 GHz to 8 GHz"

2.1.2.1 11x_RX



MEASUREMENT RESULT: "R120920RX02_fin"

2012-9-21 2:43

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det. dB	Height	Azimuth cm	Polarization deg
1600.208000	40.50	-3.0	59.5	19.0	AV	109.0	245.00	HORIZONTAL
3532.564000	26.20	5.3	59.5	33.3	AV	157.0	234.00	HORIZONTAL
5341.380000	28.50	10.5	59.5	31.0	AV	123.0	194.00	HORIZONTAL



Appendix H: AC Power Line Conducted Emissions



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

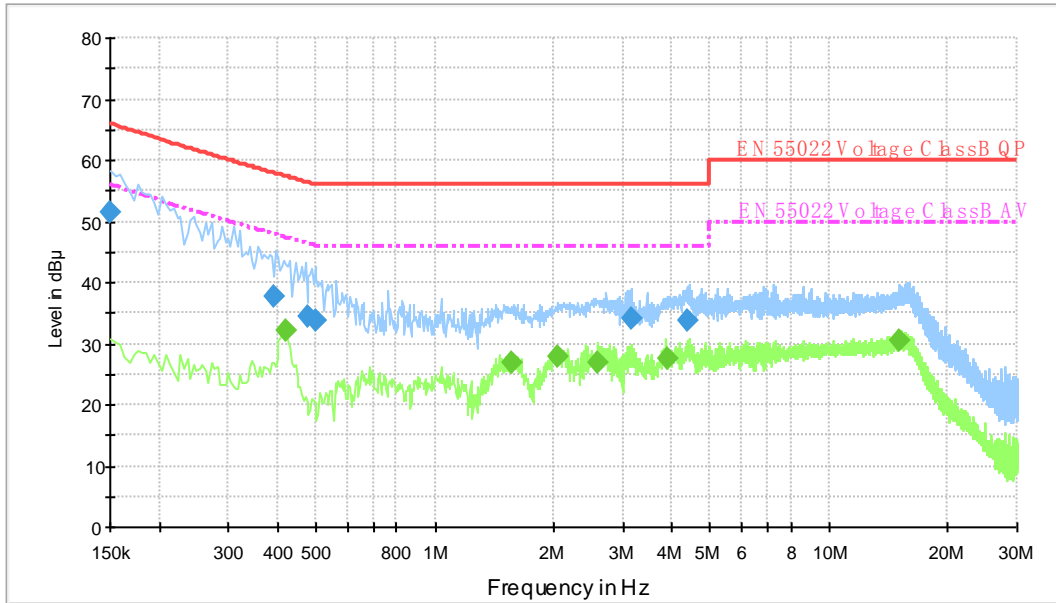
1 Result Table

EUT Conf.	Maximum Emissions	Verdict
11B/1_T@1	Not found obvious spikes or see marked spikes on plots and listed emissions records.	Pass

2 Result Plot

2.1 11B/1_T@1

Voltage with 4-Line-LISN



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.150000	51.4	1000.0	9.000	GND	L2	10.6	14.6	66.0	
0.388500	37.7	1000.0	9.000	GND	L2	10.4	20.3	58.0	
0.474000	34.5	1000.0	9.000	GND	L2	10.4	21.9	56.4	
0.496499	33.8	1000.0	9.000	GND	L2	10.4	22.3	56.1	
3.149288	34.1	1000.0	9.000	GND	L1	10.4	21.9	56.0	
4.384965	33.7	1000.0	9.000	GND	L2	10.4	22.3	56.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.420000	32.1	1000.0	9.000	GND	L2	10.4	15.2	47.3	
1.559662	26.8	1000.0	9.000	GND	L2	10.4	19.2	46.0	
2.038778	27.8	1000.0	9.000	GND	L1	10.4	18.2	46.0	
2.585055	26.8	1000.0	9.000	GND	L2	10.4	19.2	46.0	
3.883665	27.6	1000.0	9.000	GND	L1	10.4	18.4	46.0	
15.153555	30.3	1000.0	9.000	GND	L1	10.3	19.7	50.0	



Appendix I: Photos of Test Setups

1 Test Setup 2

1.1 Radiated (Unwanted Emissions into Restricted Frequency Bands, cabinet/case emissions with impedance matching for antenna-port)

1.1.1 Measurement Setup from 30 MHz to 1 GHz



1.1.2 Measurement Setup from 1 GHz to 3 GHz, 3 GHz to 18 GHz



1.1.3 Measurement Setup from 18 GHz to 26.5 GHz



1.2 Radiated (Receiver Spurious Emissions)

1.2.1 Measurement Setup from 30 MHz to 1 GHz



1.2.2 Measurement Setup from 1 GHz to 8 GHz



2 Test Setup 3



END