



FCC&IC

RF Test Report

Product Name:

**HSPA+/HSUPA/HSDPA/UMTS/GSM/GPRS/EDGE Mobile Phone
with Bluetooth**

Product Model: HUAWEI P6-U06, P6-U06

Report Number: SYBH(Z-RF)013042013-2003

FCC ID: QISP6-U06

IC : 6369A-P6U06

Reliability Laboratory of Huawei Technologies Co., Ltd.

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Notice

1. The laboratory has Passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
2. The laboratory has Passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01.
3. The laboratory has been listed by the US Federal Communications Commission to perform electromagnetic emission measurements. The site recognition number is 97456.
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8. The test report is only valid for the test samples.
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Applicant: Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
 Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt Sample: 2013-04-15
Start Date of Test: 2013-04-19
End Date of Test: 2013-04-25

Test Result: Pass

Approved by Senior Engineer:	2013-04-26	Dai Linjun	
	Date	Name	Signature

Prepared by:	2013-04-26	Zhu Mingjing	
	Date	Name	Signature



Modification Record

No.	Last Report No.	Modification Description
1	NA	First report.



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1 General Information

1.1 Applied Standard

Applied Rules: 47 CFR FCC Part 2, Subpart J (2012)
47 CFR FCC Part 15, Subpart C (2012)

IC RSS-Gen (Issue 3, December 2010)
IC RSS-210 (Issue 8, December 2010)

Test Method: FCC KDB 558074 D01 DTS Meas Guidance v03r01
FCC KDB 662911 D01 Multiple Transmitter Output v01r2

1.2 Test Location

Test Location 1: Reliability Laboratory of Huawei Technologies Co., Ltd.
Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.3 Test Environment Condition

Ambient Temperature: 19.5to 25 °C
Ambient Relative Humidity: 40 to 55 %
Atmospheric Pressure: Not applicable



2 Test Summary

Test Item	FCC Part No.	IC Standard No.	Requirements	Test Result	Verdict (NOTE 2)
DTS (6 dB) Bandwidth	15.247(a)(2)	RSS-210, A8.2(a)	≥ 500 kHz.	Appendix A	Pass
Occupied Bandwidth (Only for IC requirement)	---	RSS-210, 2.1 RSS-Gen, 4.6.1	No limit.		--
Maximum Peak Conducted Output Power	15.247(b)(3)	RSS-210, A8.4(4)	For directional gain: < 30 dBm – (G[dBi] – 6 [dB]), peak; Otherwise: < 30 dBm, peak.	Appendix B	Pass
Maximum Power Spectral Density Level	15.247(e)	RSS-210, A8.2(b)	For directional gain: < 8 dBm/3 kHz – (G[dBi] – 6 [dB]), peak. Otherwise: < 8 dBm/3 kHz, peak.	Appendix C	Pass
Band Edges Compliance	15.247(d)	RSS-210, A8.5	< -20 dBm/100 kHz if total peak power ≤ power limit.	Appendix D	Pass
Unwanted Emissions into Non-Restricted Frequency Bands				Appendix E	Pass
Unwanted Emissions into Restricted Frequency Bands (Conducted)	15.247(d) 15.209 (NOTE 1)	RSS-210, A8.5 RSS-210, 2.2 RSS-Gen, 7.2.2 RSS-Gen, 7.2.5 (NOTE 1)	FCC Part 15.209 field strength limit; RSS-Gen 7.2.5 field strength limit.	Appendix F	Pass
Unwanted Emissions into Restricted Frequency Bands (Radiated)					
Receiver Spurious Emissions (Radiated, Only for IC requirement)	---	RSS-210, 2.3 RSS-Gen, 6.1	RSS-Gen 6.1 radiated limit.	Appendix G	Pass
AC Power Line Conducted Emissions	15.207	RSS-Gen, 7.2.4	FCC Part 15.207 conducted limit; RSS-Gen, 7.2.4 conducted limit.	Appendix H	Pass
NOTE 1: According to KDB 558074, antenna-port conducted measurements are acceptable as an alternative to radiated measurements for demonstrating compliance to the limits in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions will also be required.					
NOTE 2: For the verdict, the “N/A” denotes “not applicable”, the “N/T” denotes “not tested”.					



3 Description of the Equipment under Test (EUT)

3.1 General Description

HUAWEI P6-U06, P6-U06 is subscriber equipment in the WCDMA/GSM system. The HSPA+/HSUPA/HSDPA/UMTS frequency band is Band I, Band II, Band IV, Band V and Band VIII. The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900. The Mobile Phone implements such functions as RF signal receiving/transmitting, HSPA+/HSUPA/HSDPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video, MMS service, GPS, AGPS and WIFI etc. Externally it provides micro SD card interface, earphone port (to provide voice service) and Micro USIM card interface. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

3.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

3.2.1 Board

Board		
Hardware Version	Software Version	Description
HD1UEDGEM	P6-U06V100R001C00B100	Main Board

3.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
AC/DC Adapter	HW-050100U2W	Huawei Technologies Co., Ltd.	Input voltage: ~100-240V 50/60Hz 0.2A Output voltage: 5V  1A Rate power: 5W
Rechargeable Li-ion	HB3742A0EBC	Huawei Technologies Co., Ltd.	Rated capacity: 2000mAh Nominal Voltage:  +3.8V Charging Voltage:  +4.35V



3.3 Technical Description

Characteristics	Description		
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11b (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11g (20 MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n (20 MHz channel bandwidth), <input checked="" type="checkbox"/> 802.11n (40 MHz channel bandwidth)		
TX/RX Operating Range	2412-2462 MHz band	$f_c = 2407 \text{ MHz} + N * 5 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.	
Data Rate	802.11b	1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps	
	802.11g	6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps	
	802.11n (SISO)	MCS 0 to MCS 7	
Modulation Type	DBPSK/DQPSK/CCK (DSSS), BPSK/QPSK/16QAM/64QAM (OFDM).		
Emission Designator	14M6G1D (for 802.11b mode), 16M3G7D (for 802.11g mod), 17M5G7D (for 802.11n (20M) mode), 35M8G7D (for 802.11n (40M) mode)		
TX Power Control	<input checked="" type="checkbox"/> Supported, <input type="checkbox"/> Not Supported		
Standby Mode	<input type="checkbox"/> Supported, <input checked="" type="checkbox"/> Not Supported		
Equipment Type	<input type="checkbox"/> Stand-alone equipment, <input type="checkbox"/> Plug-in radio device, <input checked="" type="checkbox"/> Combined equipment		
Antenna	Description	Isotropic Antenna,2400~2500MHz,-4dBi/-7dBi,isotropic,5W,N-J,no	
	Type	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
	Ports	<input checked="" type="checkbox"/> Ant 1, <input checked="" type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3	
	Smart System	<input checked="" type="checkbox"/> SISO (for 802.11b/g/n), <input type="checkbox"/> MIMO (for 802.11n): 1 Tx & 1 Rx, <input type="checkbox"/> Diversity (for 802.11b/g) : Tx & Rx	
	Gain	Ant 1: -4 dBi, Ant 2: -7 dBi (per antenna port, max.)	
	Remark	When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.	
Power Supply	Type	<input checked="" type="checkbox"/> AC/DC Adapter	<input type="checkbox"/> PoE: <input type="checkbox"/> Other:



4 General Test Conditions / Configurations

4.1 Test Modes

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11B	IEEE 802.11b with data rate of 1 Mbps using SISO mode.
11G	IEEE 802.11g with data rate of 6 Mbps using SISO mode.
11N20	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11N40	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.



4.2 EUT Configurations

4.2.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"> - All TX tests are performed at all TX antenna ports of the EUT, and - All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

4.2.2 Customized Configurations

Test Mode	RF Ch.	TX Freq. [MHz]	Antenna Port	RX Freq. [MHz]	Ch. BW [MHz]	Power Conf., per Port
11B	L	Ch No. 1 / 2412 MHz	Ant1	---	20	18
			Ant2	---	20	15
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	18
			Ant2	---	20	15
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	18
			Ant2	---	20	15
11G	L	Ch No. 1 / 2412 MHz	Ant1	---	20	15
			Ant2	---	20	12
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	15
			Ant2	---	20	12
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	15
			Ant2	---	20	12
11N20	L	Ch No. 1 / 2412 MHz	Ant1	---	20	13
			Ant2	---	20	11
	M	Ch No. 6 / 2437 MHz	Ant1	---	20	13
			Ant2	---	20	11
	H	Ch No. 11 / 2462 MHz	Ant1	---	20	13
			Ant2	---	20	11
11N40	L	Ch No. 3 / 2422 MHz	Ant1	---	40	13
			Ant2	---	40	11
	M	Ch No. 6 / 2437 MHz	Ant1	---	40	13
			Ant2	---	40	11
	H	Ch No. 9 / 2452 MHz	Ant1	---	40	13
			Ant2	---	40	11



4.3 Test Environments

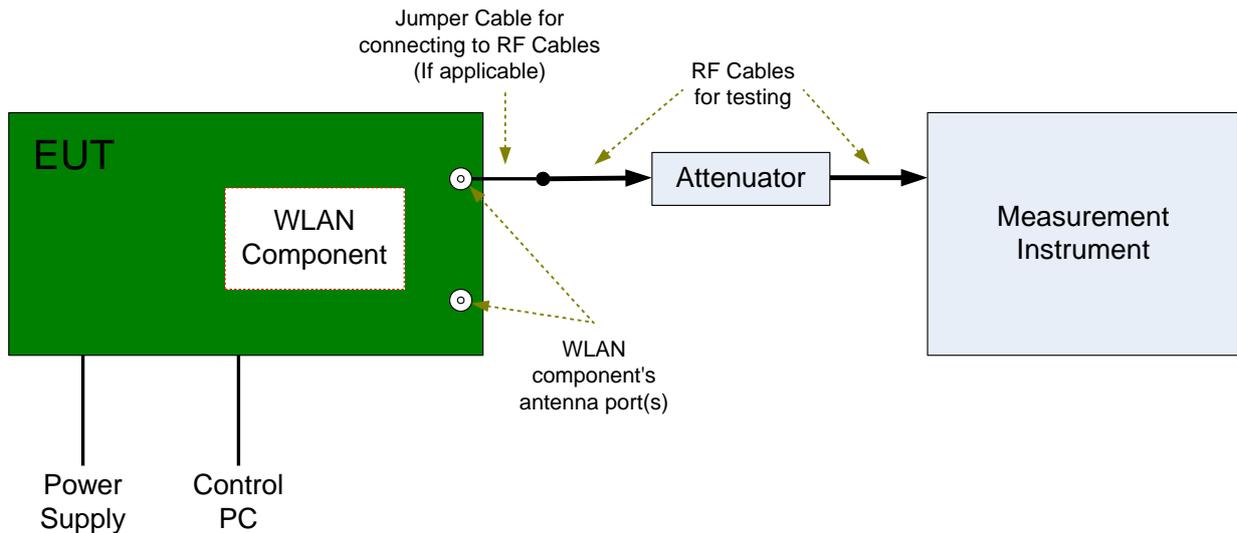
NOTE: The values used in the test report may be stringent than the declared.

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	Ambient	3.8 VDC	Ambient

4.4 Test Setups

4.4.1 Test Setup 1

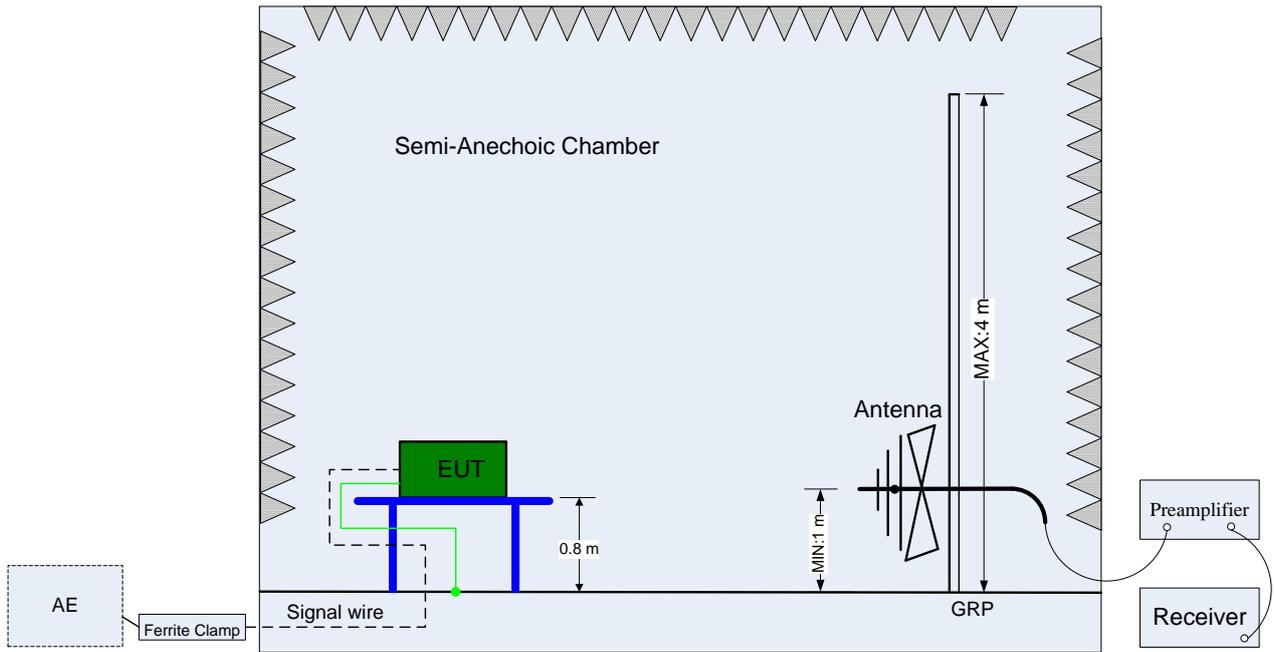
The WLAN component's antenna port(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



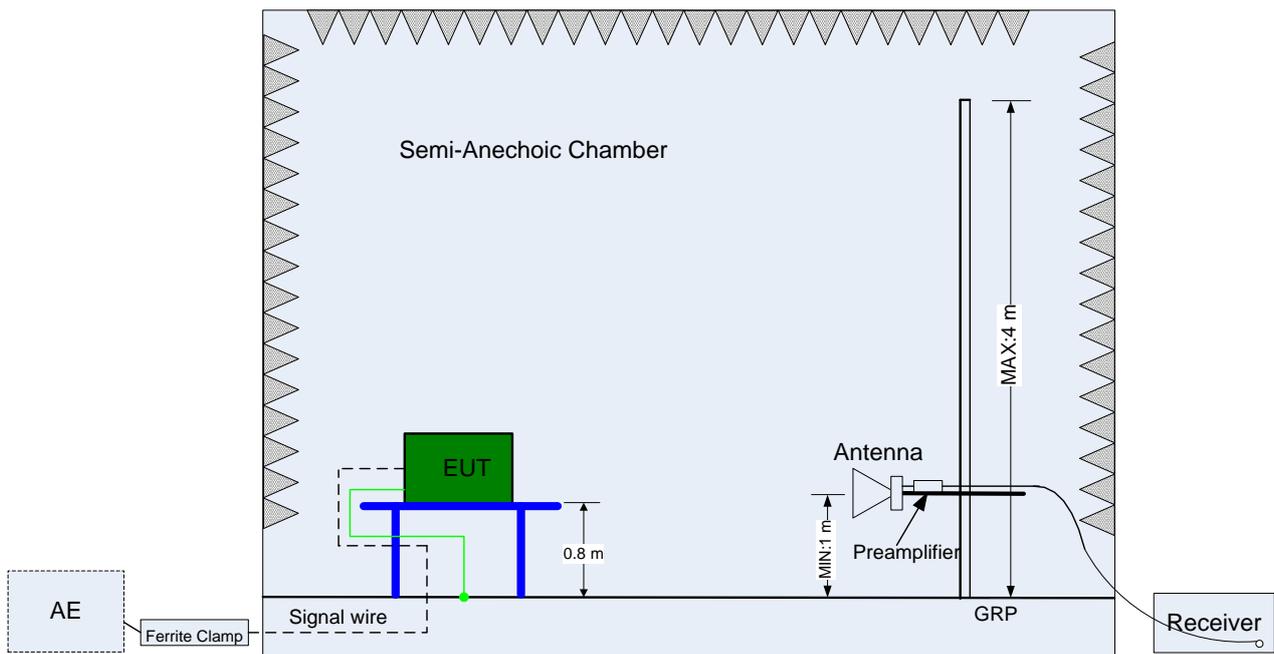
4.4.2 Test Setup 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



(Below 1 GHz)

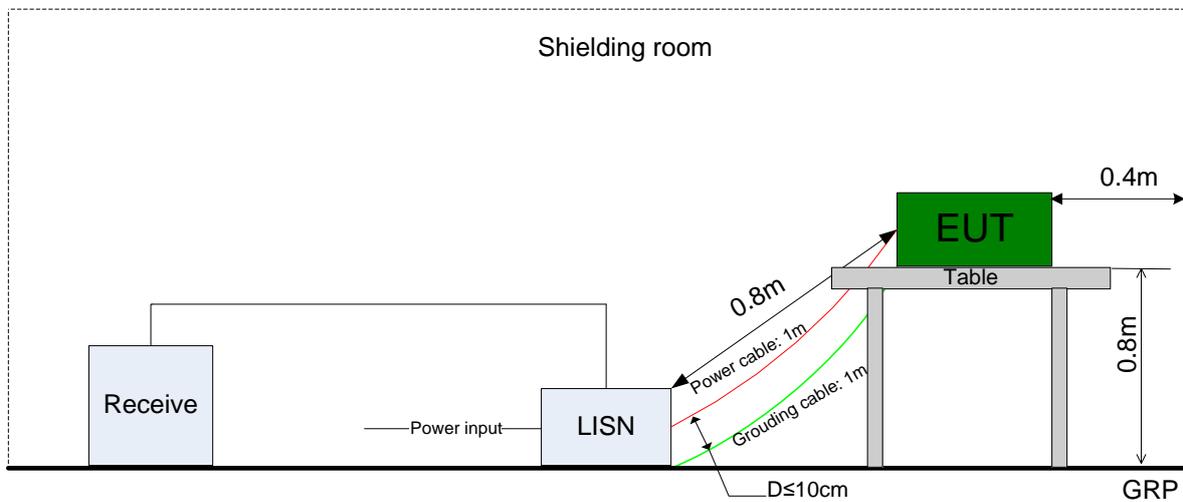


(Above 1 GHz)

4.4.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.





4.5 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
DTS (6 dB) Bandwidth	Measurement Method	FCC KDB 558074 §8.2 Option 2.
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Occupied Bandwidth (Only for IC requirement)	Measurement Method	RSS-Gen, 4.6.1.
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Maximum Peak Conducted Output Power	Measurement Method	FCC KDB 558074 §9.1 .2 (integrated band power method).
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Maximum Power Spectral Density Level	Measurement Method	FCC KDB 558074 §10.2 (peak PSD).
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2,



Test Case	Test Conditions	
	Configuration	Description
		11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Band Edges Compliance	Measurement Method	FCC KDB 558074 §13.0.
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Unwanted Emissions into Non-Restricted Frequency Bands	Measurement Method	FCC KDB 558074 §11.0
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Unwanted Emissions into Restricted Frequency Bands (Conducted)	Measurement Method	FCC KDB 558074 §12.2, Conducted (antenna-port).
	Test Environment	NTNV
	Test Setup	Test Setup 1
	EUT Configuration	11B_L@Ant1, 11B_L@Ant2, 11B_M@Ant1, 11B_M@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_M@Ant1, 11G_M@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_M@Ant1, 11N20_M@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_M@Ant1, 11N40_M@Ant2, 11N40_H@Ant1, 11N40_H@Ant2,
Unwanted Emissions into Restricted Frequency Bands (Radiated)	Measurement Method	ANSI C63.10; FCC KDB 558074 §12.1, Radiated
	Test Environment	NTNV
	Test Setup	Test Setup 2
	EUT Placement	<input checked="" type="checkbox"/> Flatwise, <input checked="" type="checkbox"/> Upright, <input checked="" type="checkbox"/> Hung
	EUT Configuration	(1) 30 MHz to 1 GHz: 11B_L@Ant1 (Worst Conf.).

Test Case	Test Conditions	
	Configuration	Description
		(2) 1 GHz to 3 GHz: 11B_L@Ant1, 11B_L@Ant2, 11B_H@Ant1, 11B_H@Ant2, 11G_L@Ant1, 11G_L@Ant2, 11G_H@Ant1, 11G_H@Ant2, 11N20_L@Ant1, 11N20_L@Ant2, 11N20_H@Ant1, 11N20_H@Ant2, 11N40_L@Ant1, 11N40_L@Ant2, 11N40_H@Ant1, 11N40_H@Ant2, (3) 3 GHz to 18 GHz: 11B_L@Ant1 (Worse Conf.), 11B_H@Ant1 (Worse Conf.). (4) 18 GHz to 26.5 GHz: 11B_L@Ant1 (Worse Conf.), 11B_H@Ant1 (Worse Conf.).
Receiver Spurious Emissions (Radiated, Only for IC requirement)	Measurement Method	Radiated.
	Test Environment	NTNV
	Test Setup	Test Setup 2
	EUT Placement	<input checked="" type="checkbox"/> Flatwise, <input checked="" type="checkbox"/> Upright, <input checked="" type="checkbox"/> Hung
	EUT Configuration	11x_RX
AC Power Line Conducted Emissions	Measurement Method	AC mains conducted.
	Test Environment	NTNV
	Test Setup	Test Setup 3
	EUT Configuration	11B_L@Ant1 (Worst Conf.).



5 Main Test Instruments

Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal- Due
Power supply	KEITHLEY	2303	1288003	2012-11-19	2014-11-18
Spectrum Analyzer	Agilent	E4440A	MY48250119	2012-08-20	2013-08-19
Signal Analyzer	R&S	FSQ31	200021	2012-11-09	2013-11-08
Spectrum Analyzer	Agilent	N9030A	MY49431698	2012-11-09	2013-11-08
Temperature Chamber	WEISS	WKL64	56246002940010	2013-01-29	2014-01-28
Signal generator	Agilent	E8257D	MY49281095	2012-09-14	2013-09-13
Spectrum analyzer	R&S	FSU3	200474	2013-01-29	2014-01-28
Spectrum analyzer	R&S	FSU43	100144	2013-01-29	2014-01-28
Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100304	2013-02-02	2014-02-01
Double-Ridged Waveguide Horn Antenna (1G~18GHz)	R&S	HF907	100391	2011-10-12	2013-10-11
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBE CK	VULB 9163	9163-521	2011-12-09	2013-12-08
Pyramidal Horn Antenna(18GHz-26.5 GHz)	ETS-Lindgren	3160-09	00091989	2011-10-20	2013-10-19

END



Appendix for Test report



Appendix A: DTS (6 dB) Bandwidth

In this document, the "DTS6dBBW" refers to the measured "DTS (6 dB) Bandwidth" value. In this Appendix, the "fc(DTS6dBBW)" refers to the centre of the measured "DTS6dBBW". The introduction of the "fc(DTS6dBBW)" is due to that other measurements use it as the spectrum analyzer setting.

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.

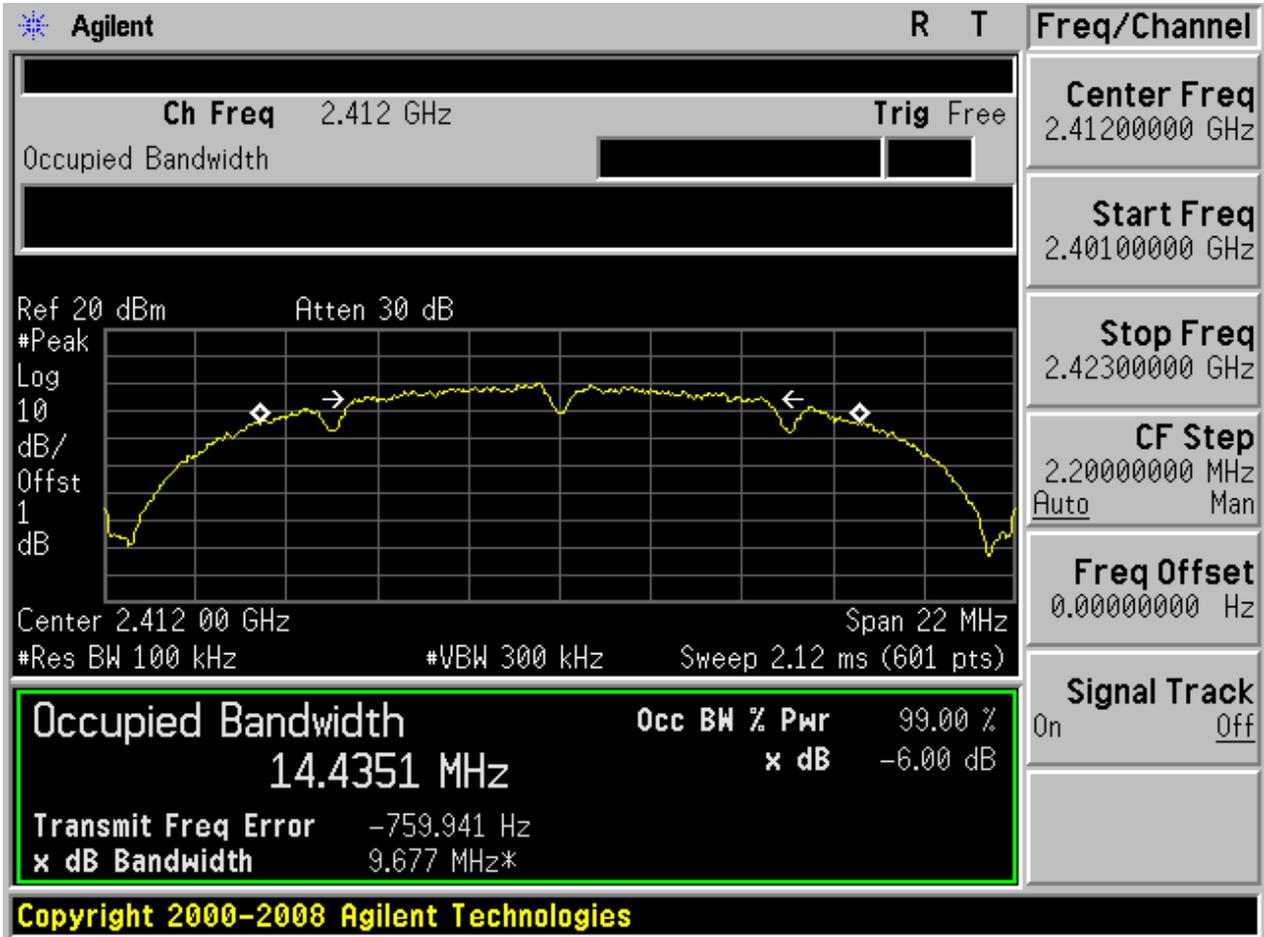
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	DTS6dBBW[MHz]	Verdict
11B	L	2412	Ant 1	9.68	pass
11B	L	2412	Ant 2	10.07	pass
11B	M	2437	Ant 1	9.52	pass
11B	M	2437	Ant 2	9.83	pass
11B	H	2462	Ant 1	9.77	pass
11B	H	2462	Ant 2	10.05	pass
11G	L	2412	Ant 1	16.34	pass
11G	L	2412	Ant 2	16.40	pass
11G	M	2437	Ant 1	15.42	pass
11G	M	2437	Ant 2	16.35	pass
11G	H	2462	Ant 1	15.94	pass
11G	H	2462	Ant 2	16.29	pass
11N20	L	2412	Ant 1	17.58	pass
11N20	L	2412	Ant 2	17.26	pass
11N20	M	2437	Ant 1	16.05	pass
11N20	M	2437	Ant 2	16.63	pass
11N20	H	2462	Ant 1	17.24	pass
11N20	H	2462	Ant 2	16.65	pass
11N40	L	2422	Ant 1	32.90	pass
11N40	L	2422	Ant 2	34.07	pass
11N40	M	2437	Ant 1	35.34	pass
11N40	M	2437	Ant 2	34.56	pass
11N40	H	2452	Ant 1	31.13	pass
11N40	H	2452	Ant 2	33.27	pass



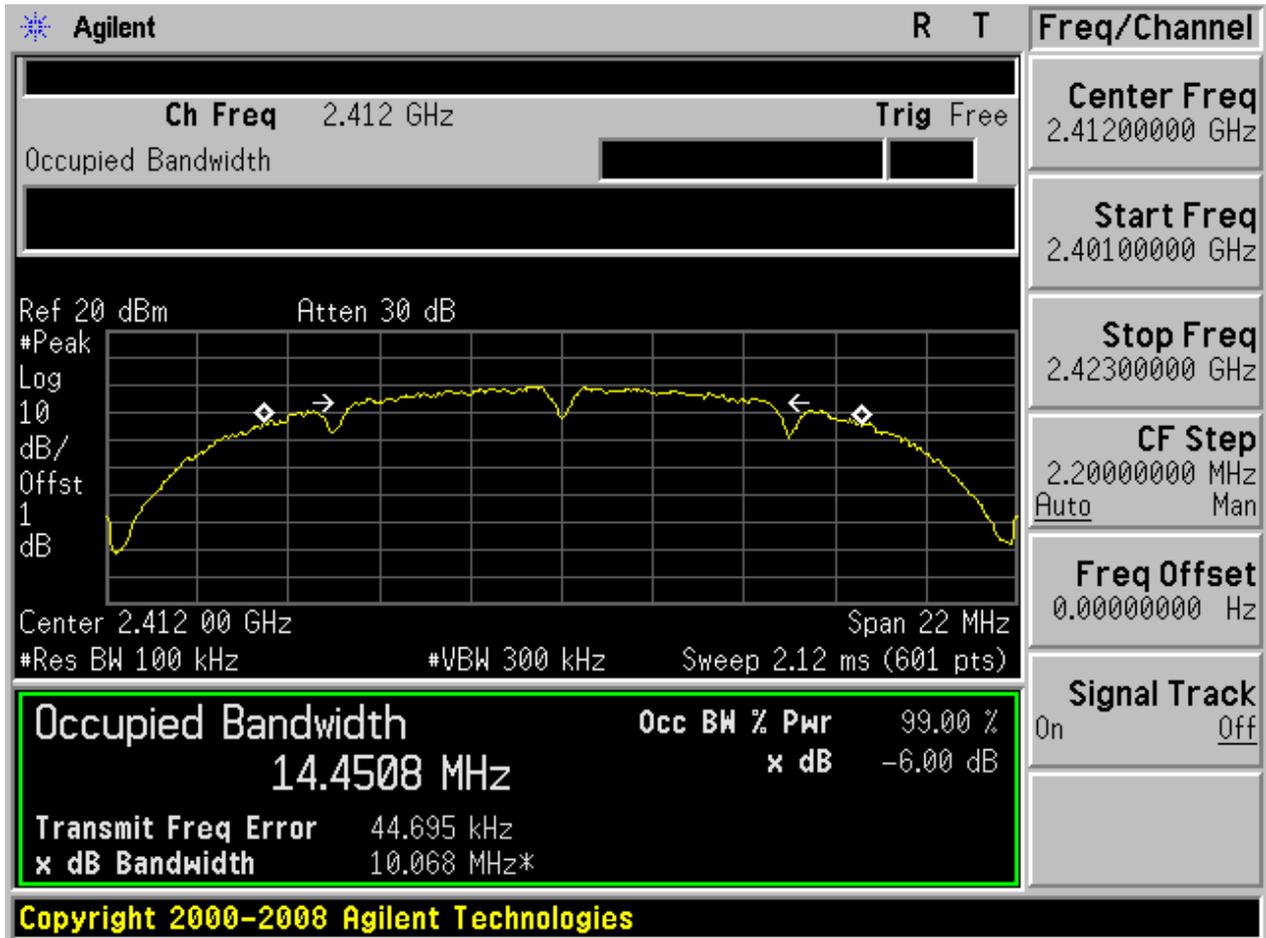
Part II - Test Plots

2.1 11B_L@Ant 1



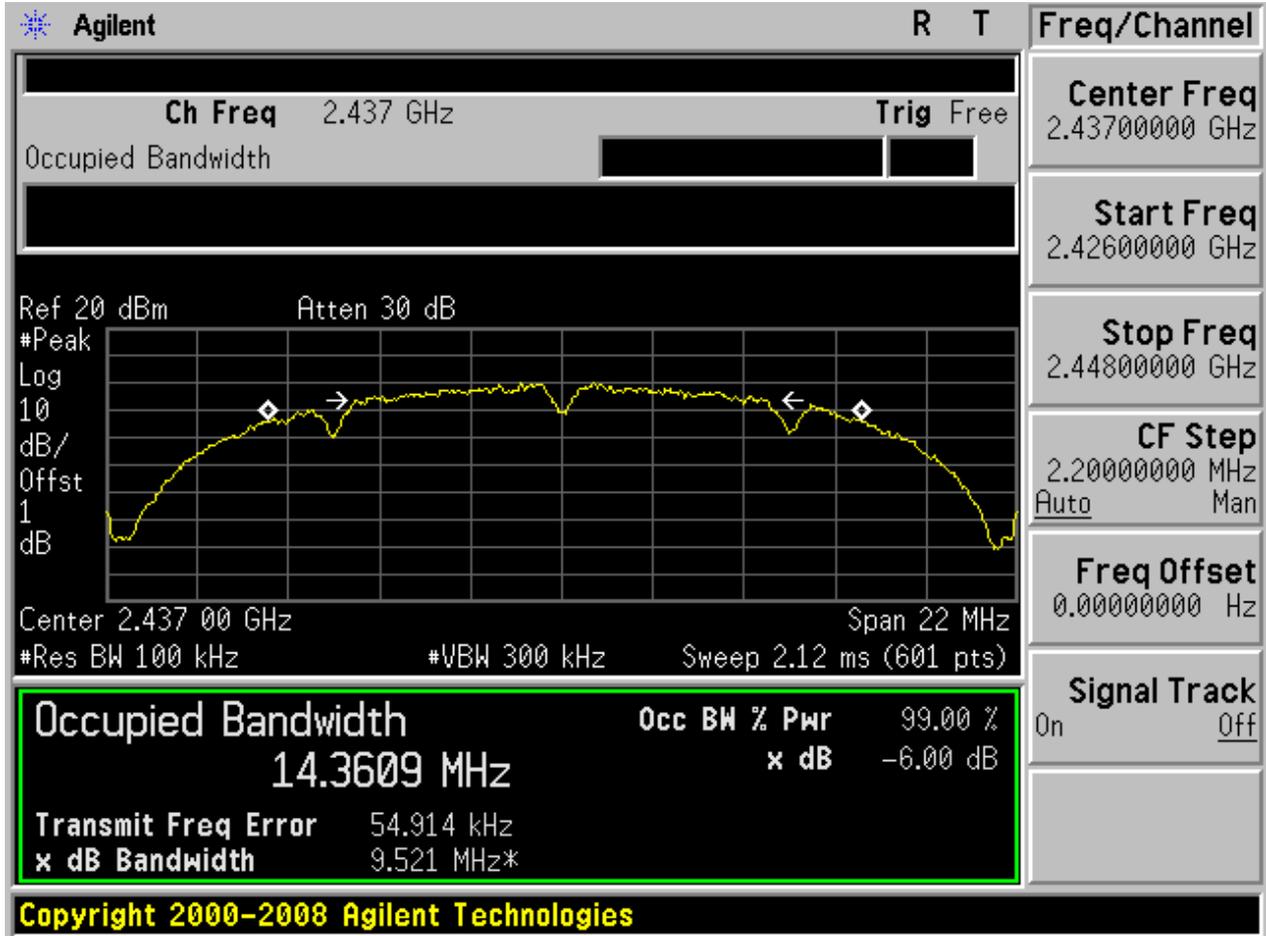


2.2 11B_L@Ant 2



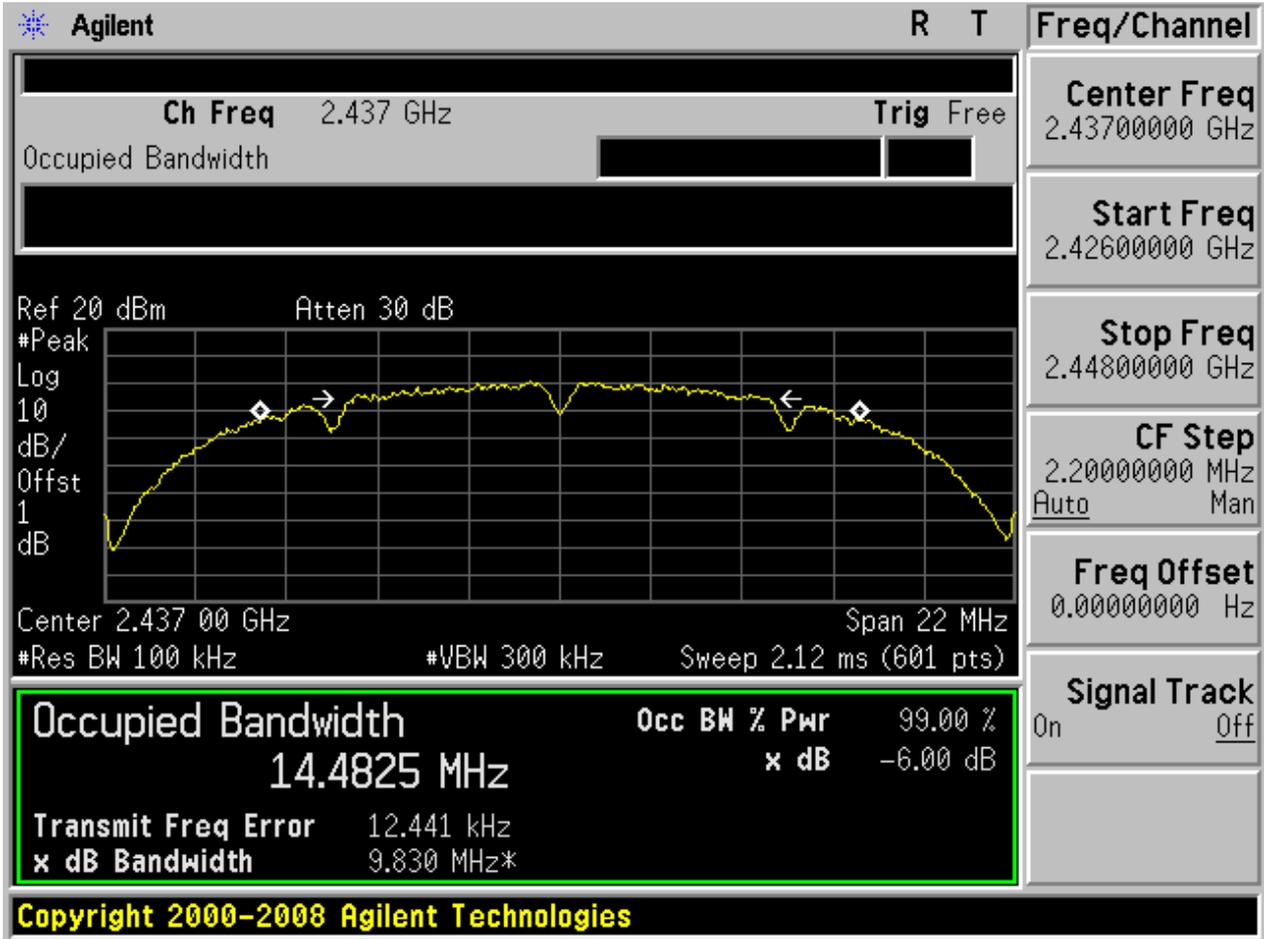


2.3 11B_M@Ant 1



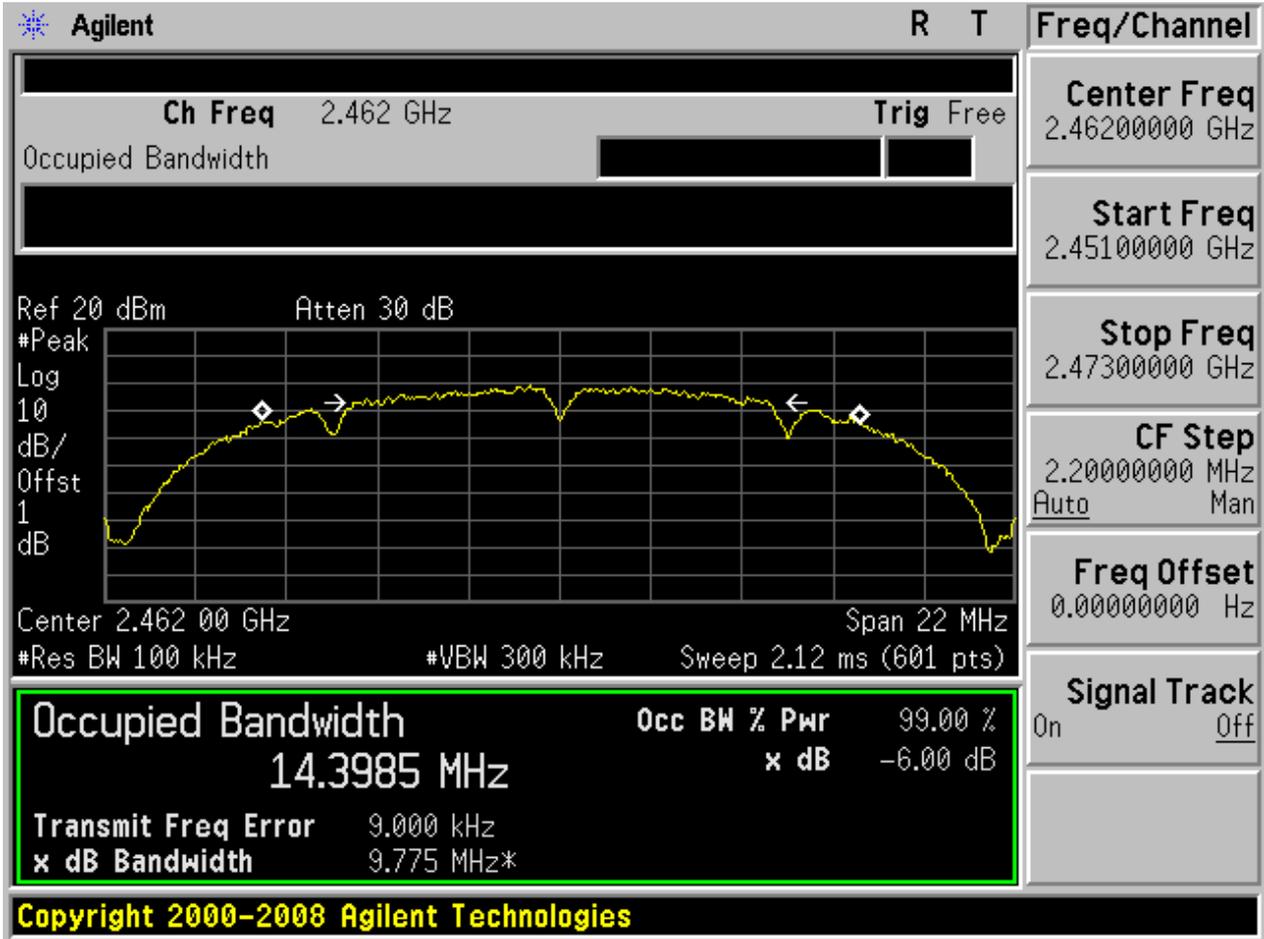


2.4 11B_M@Ant 2



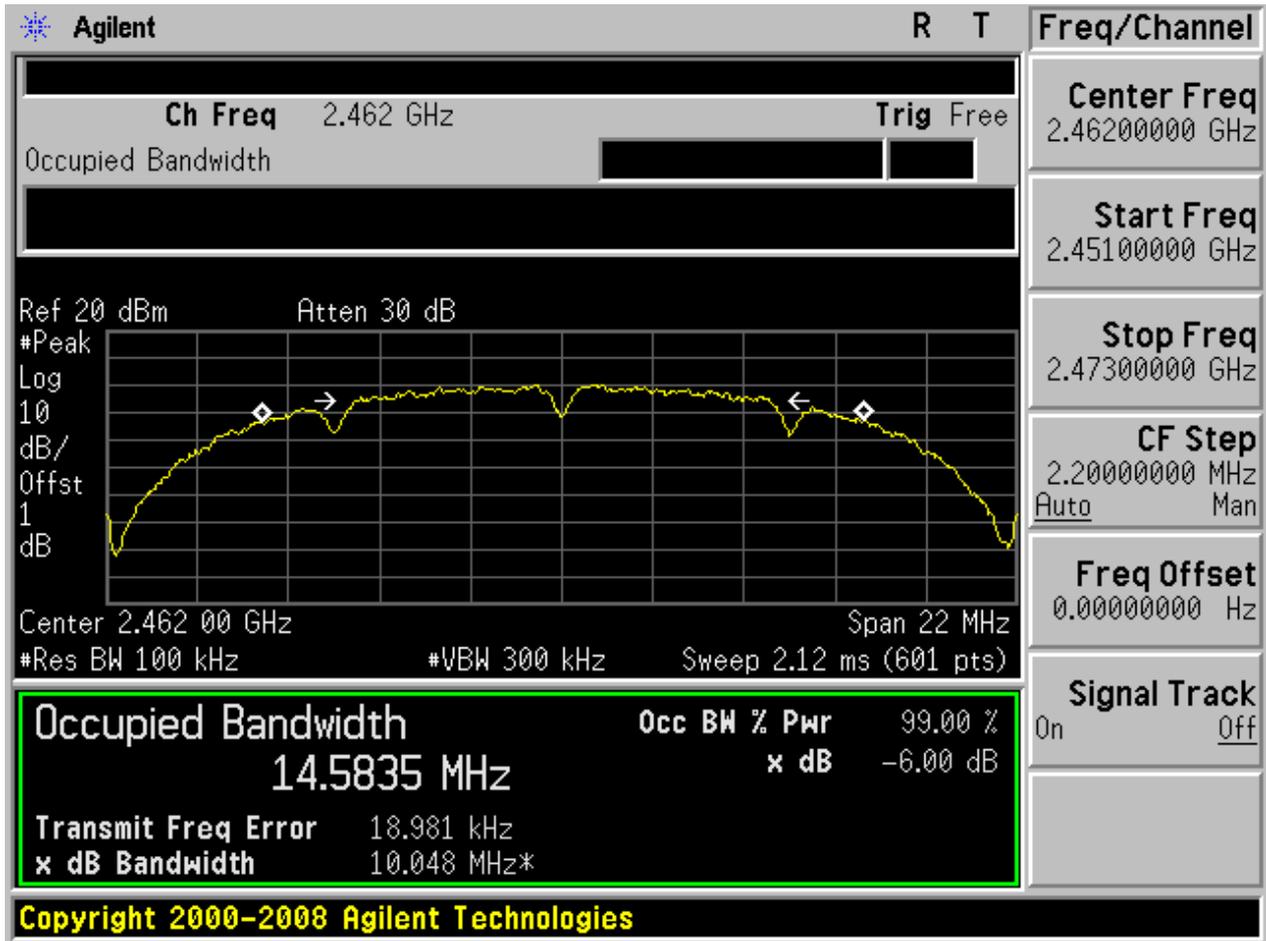


2.5 11B_H@Ant 1



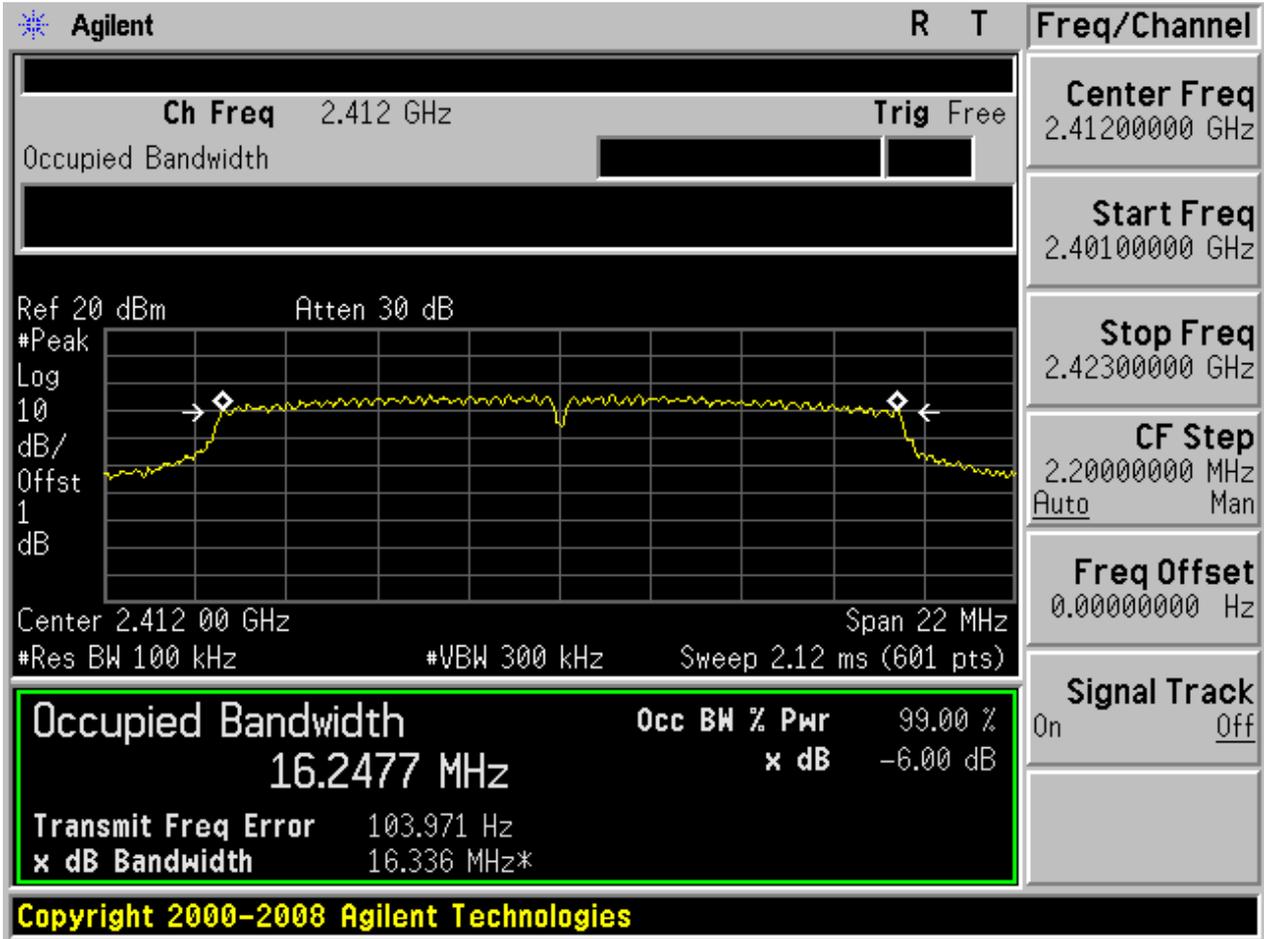


2.6 11B_H@Ant 2



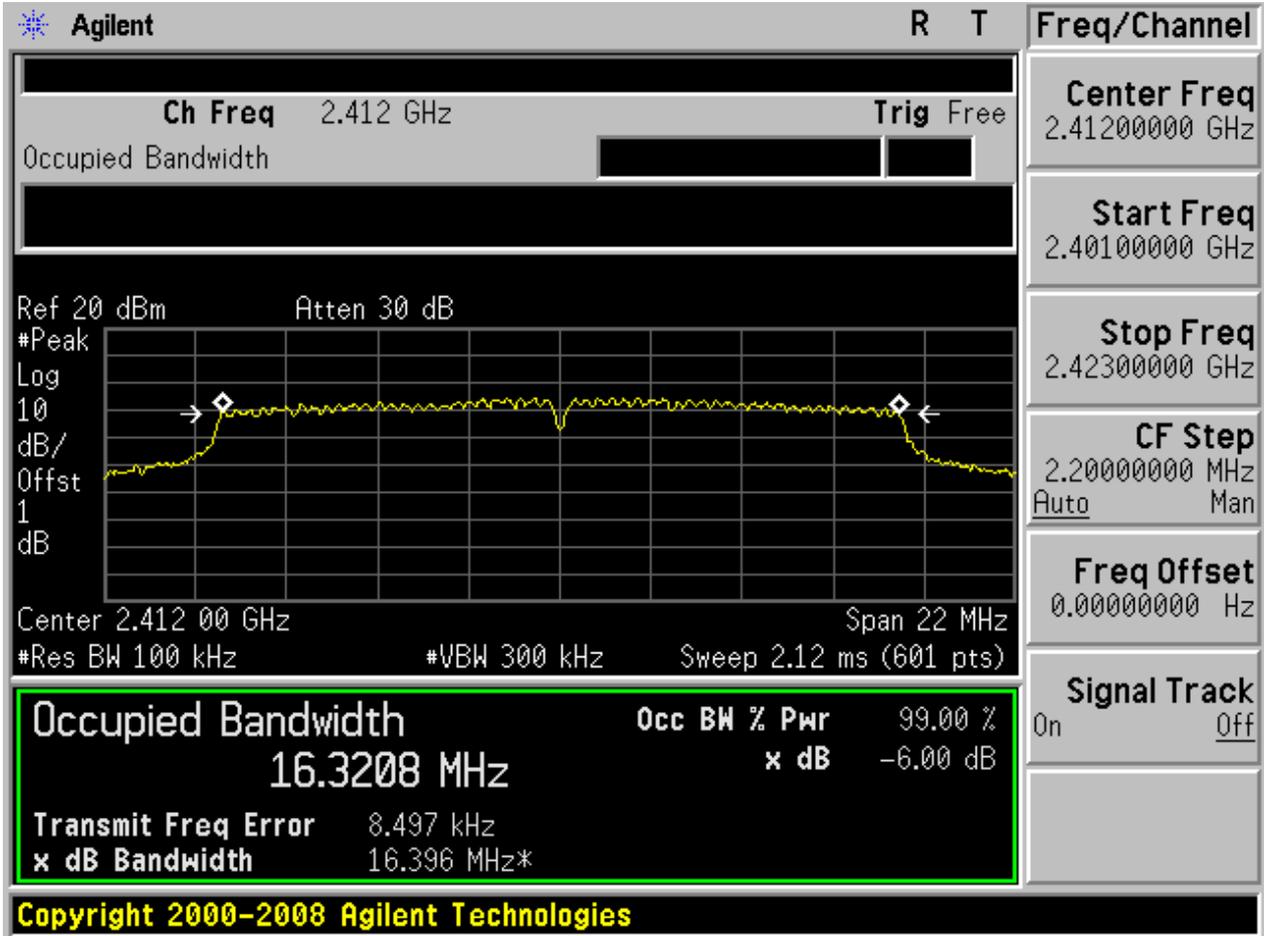


2.7 11G_L@Ant 1



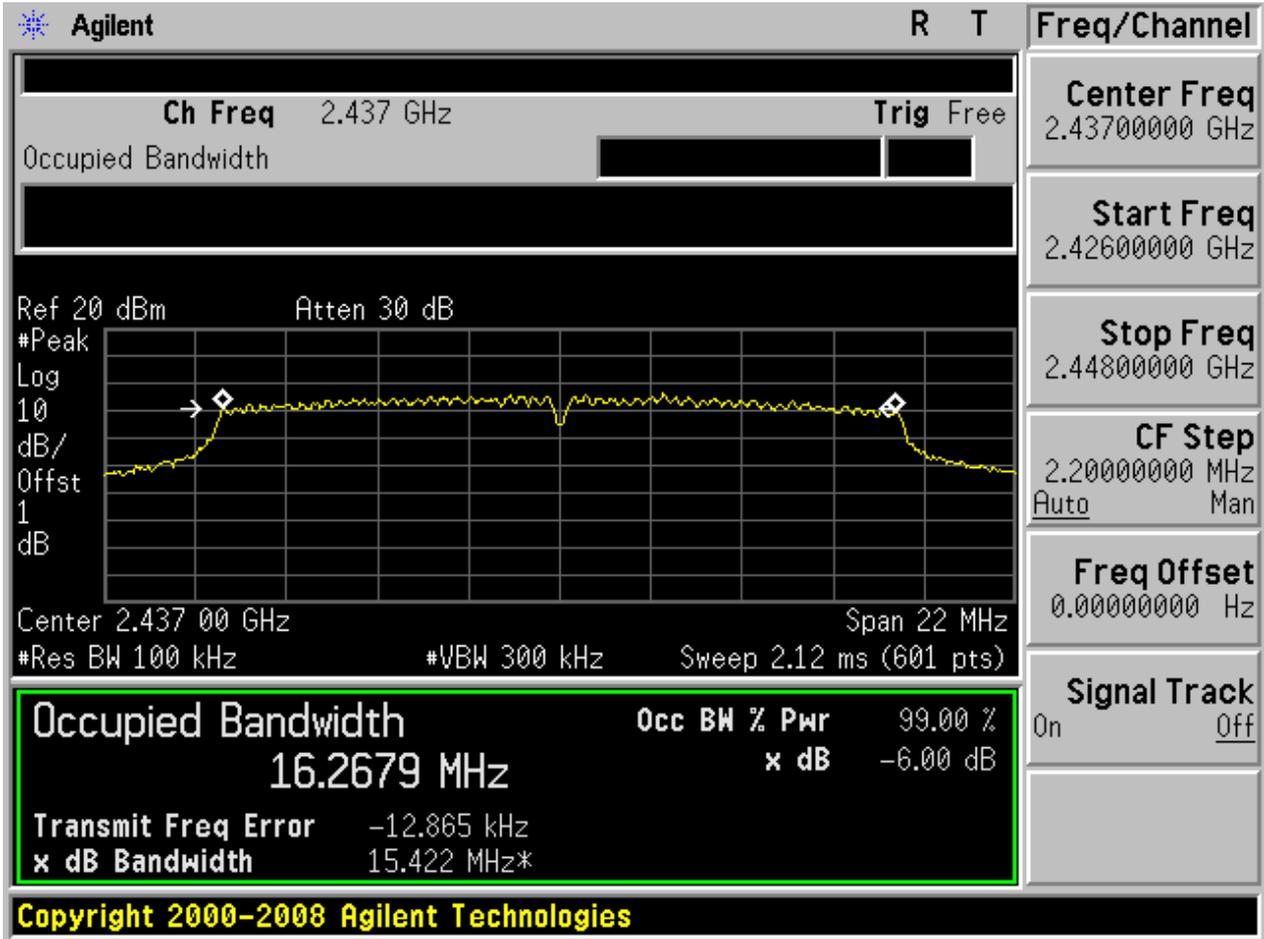


2.8 11G_L@Ant 2



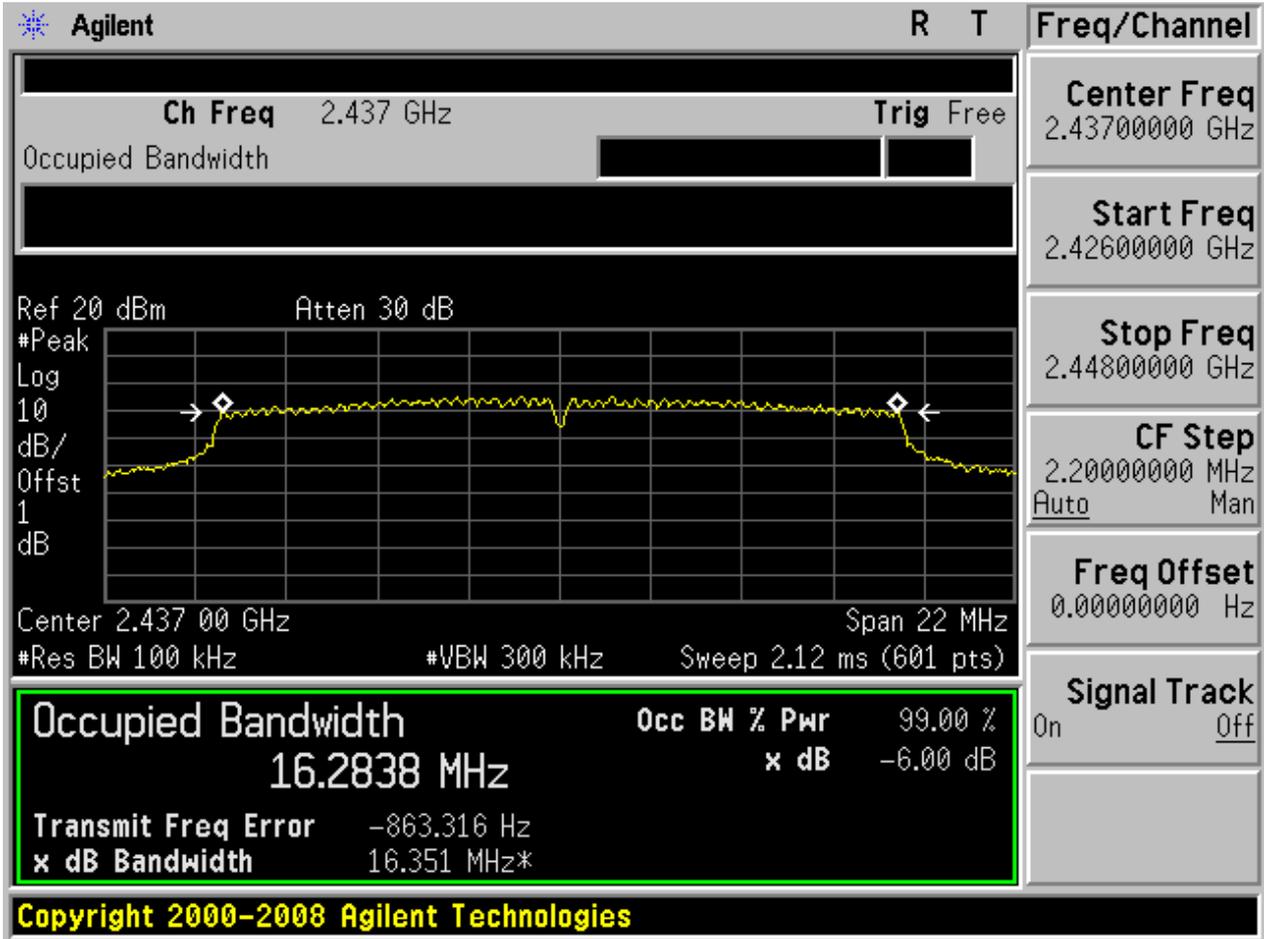


2.9 11G_M@Ant 1



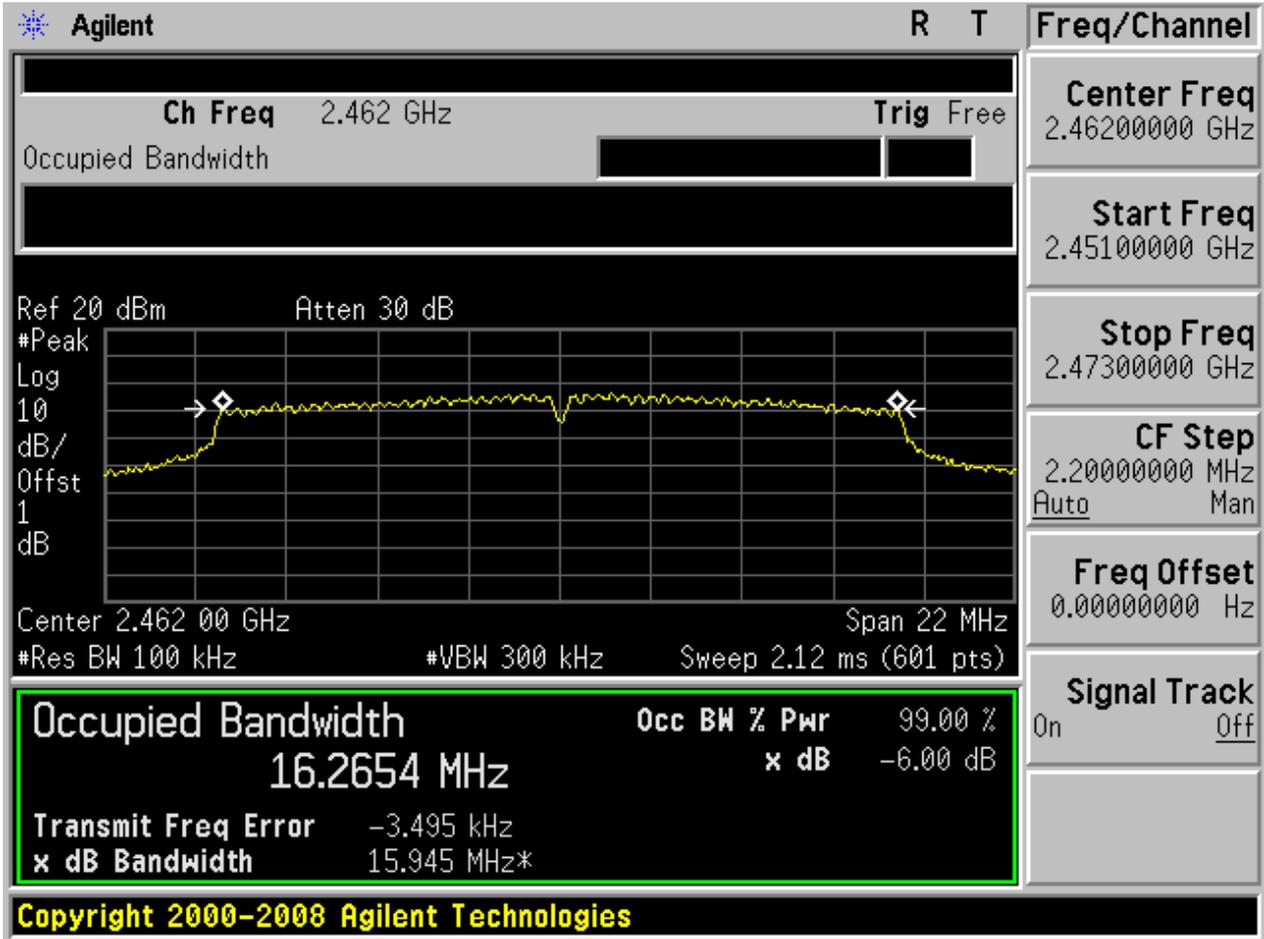


2.10 11G_M@Ant 2



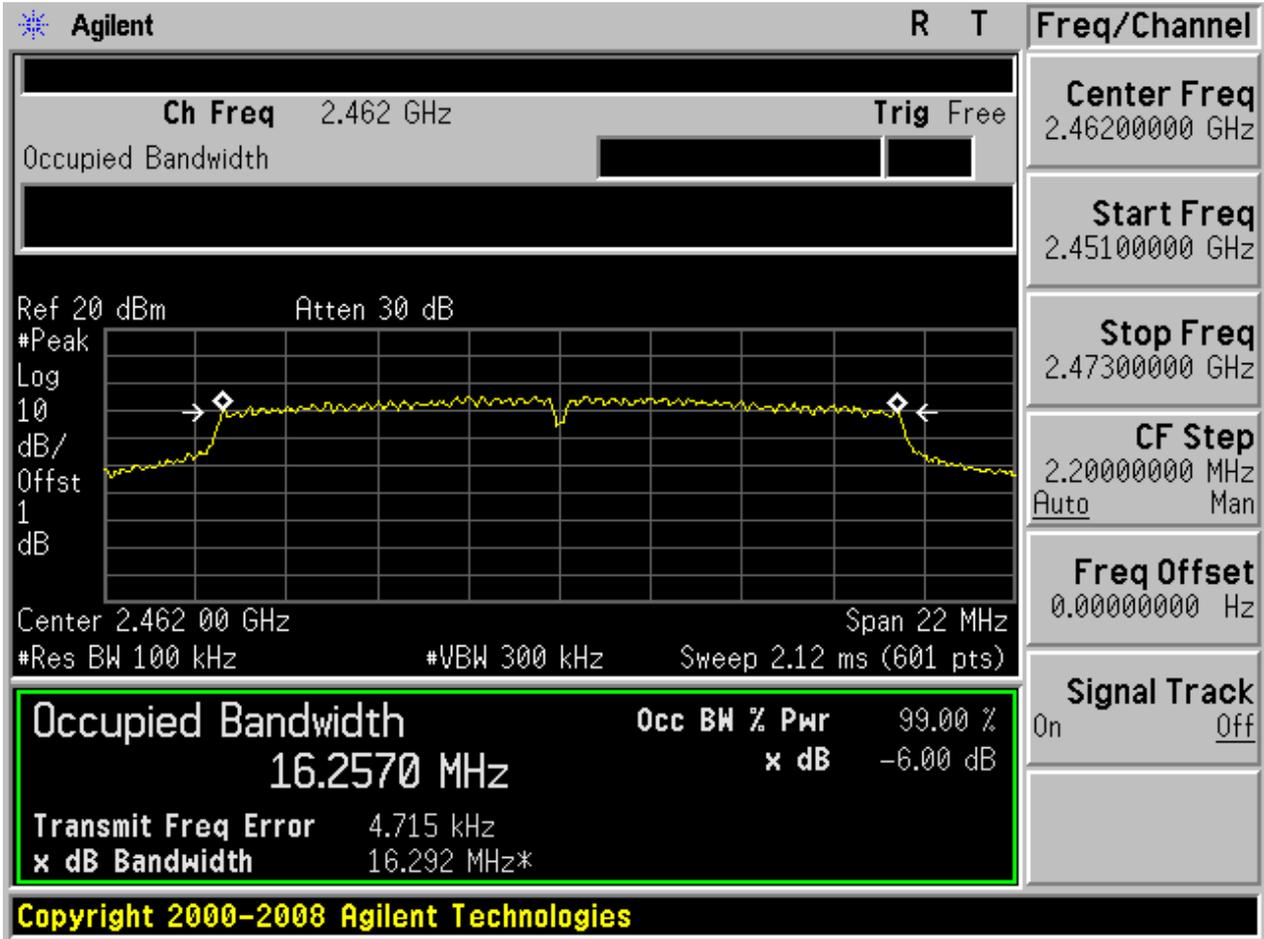


2.11 11G_H@Ant 1



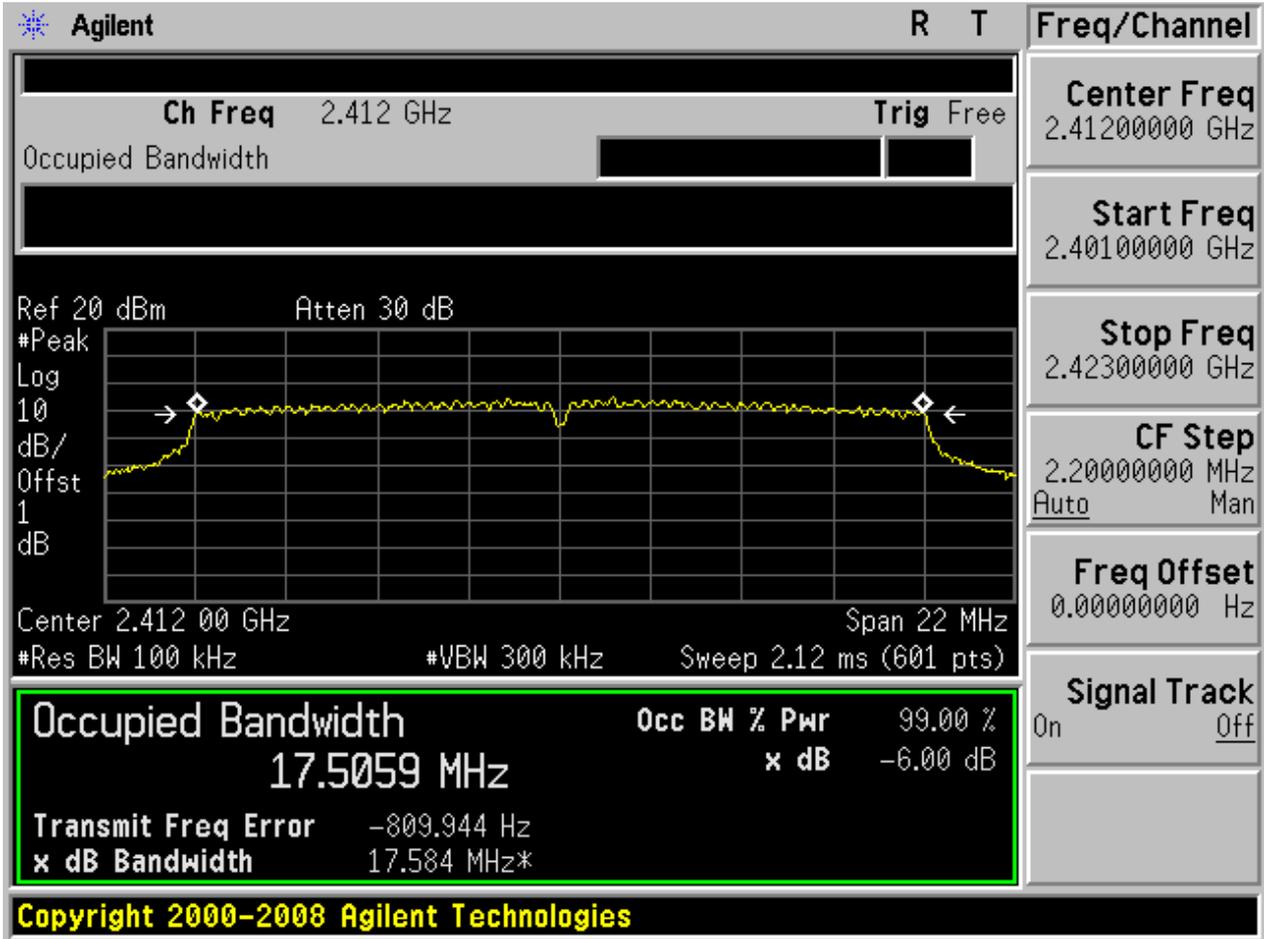


2.12 11G_H@Ant 2



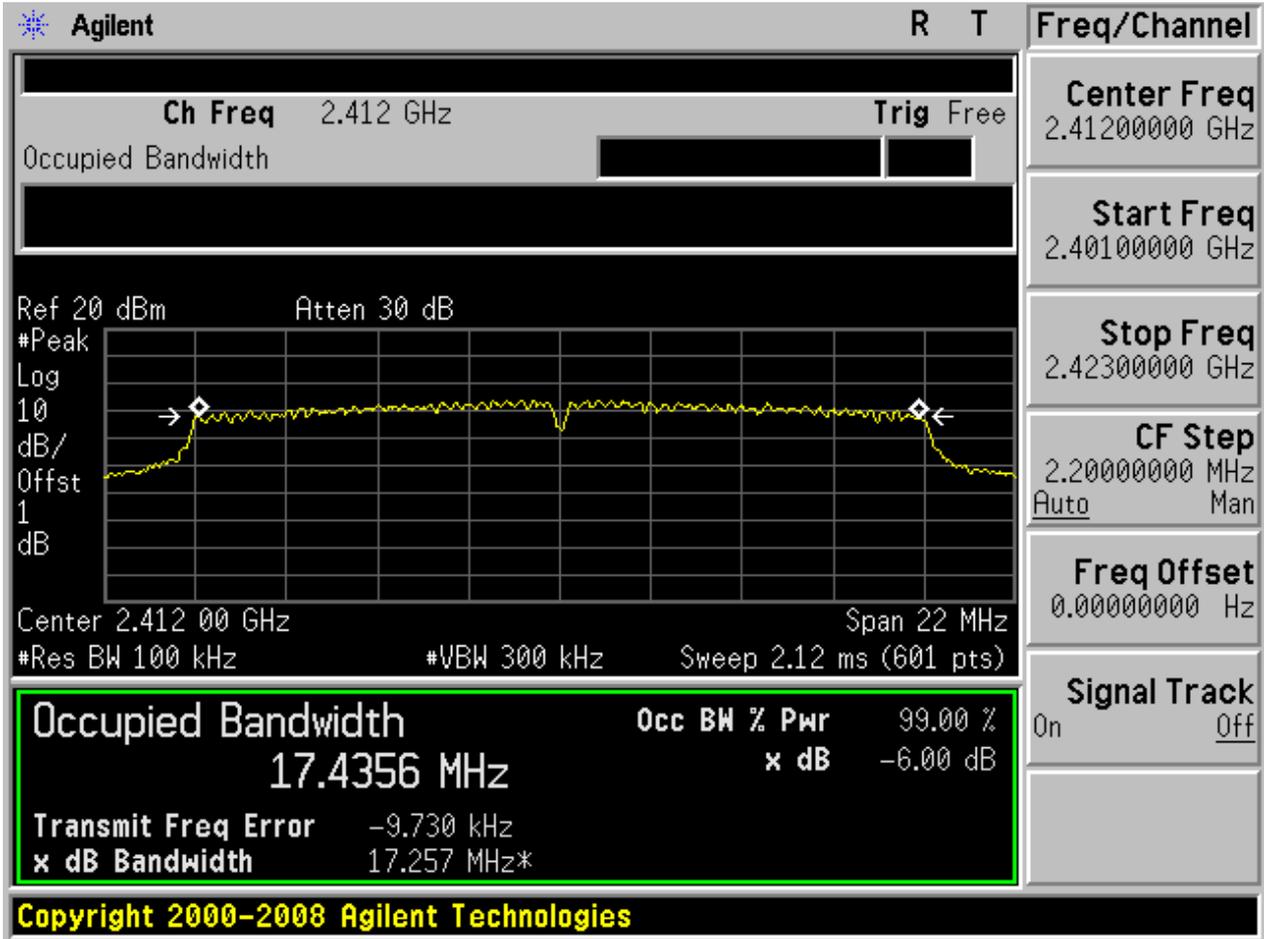


2.13 11N20_L@Ant 1



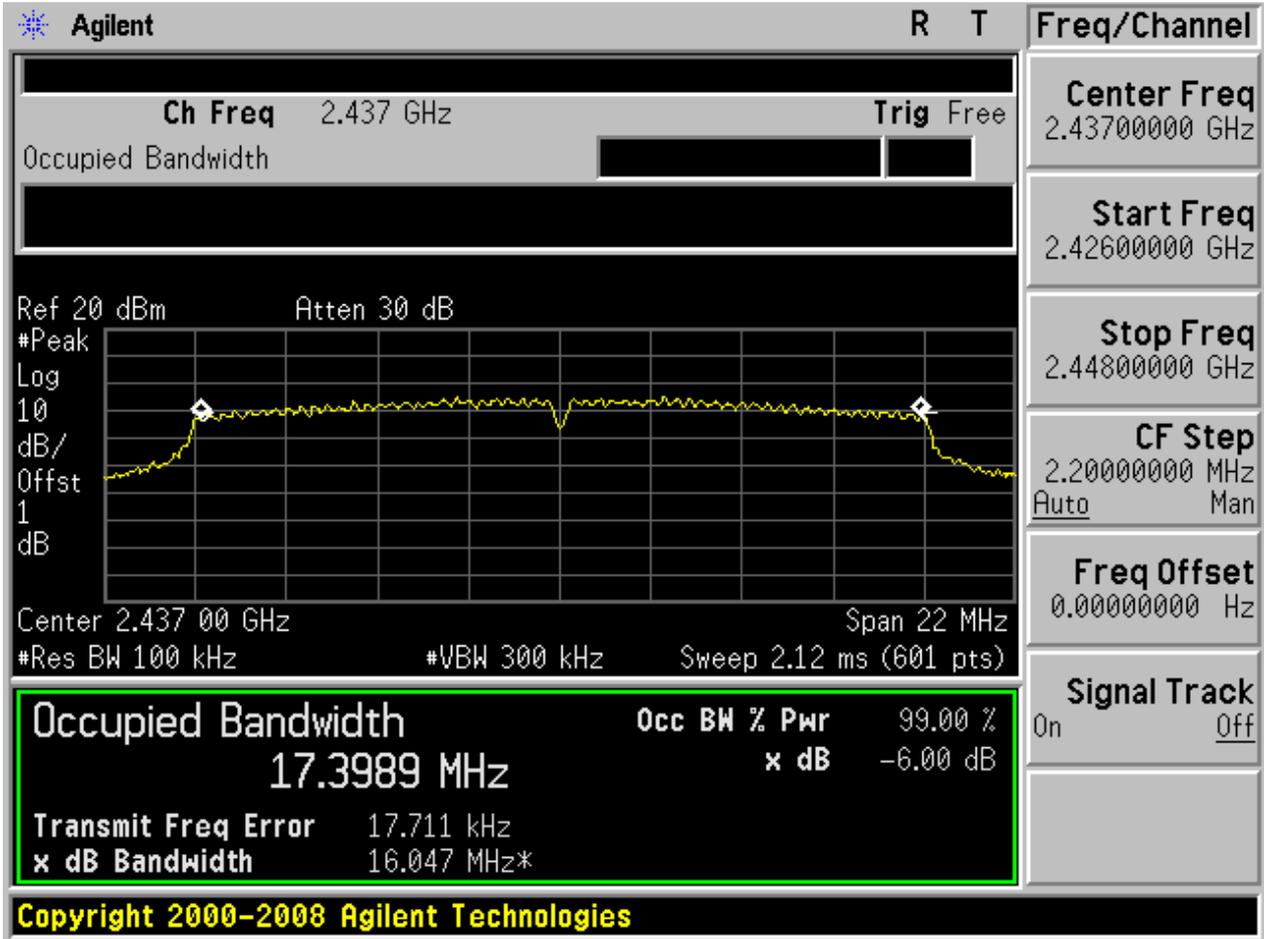


2.14 11N20_L@Ant 2



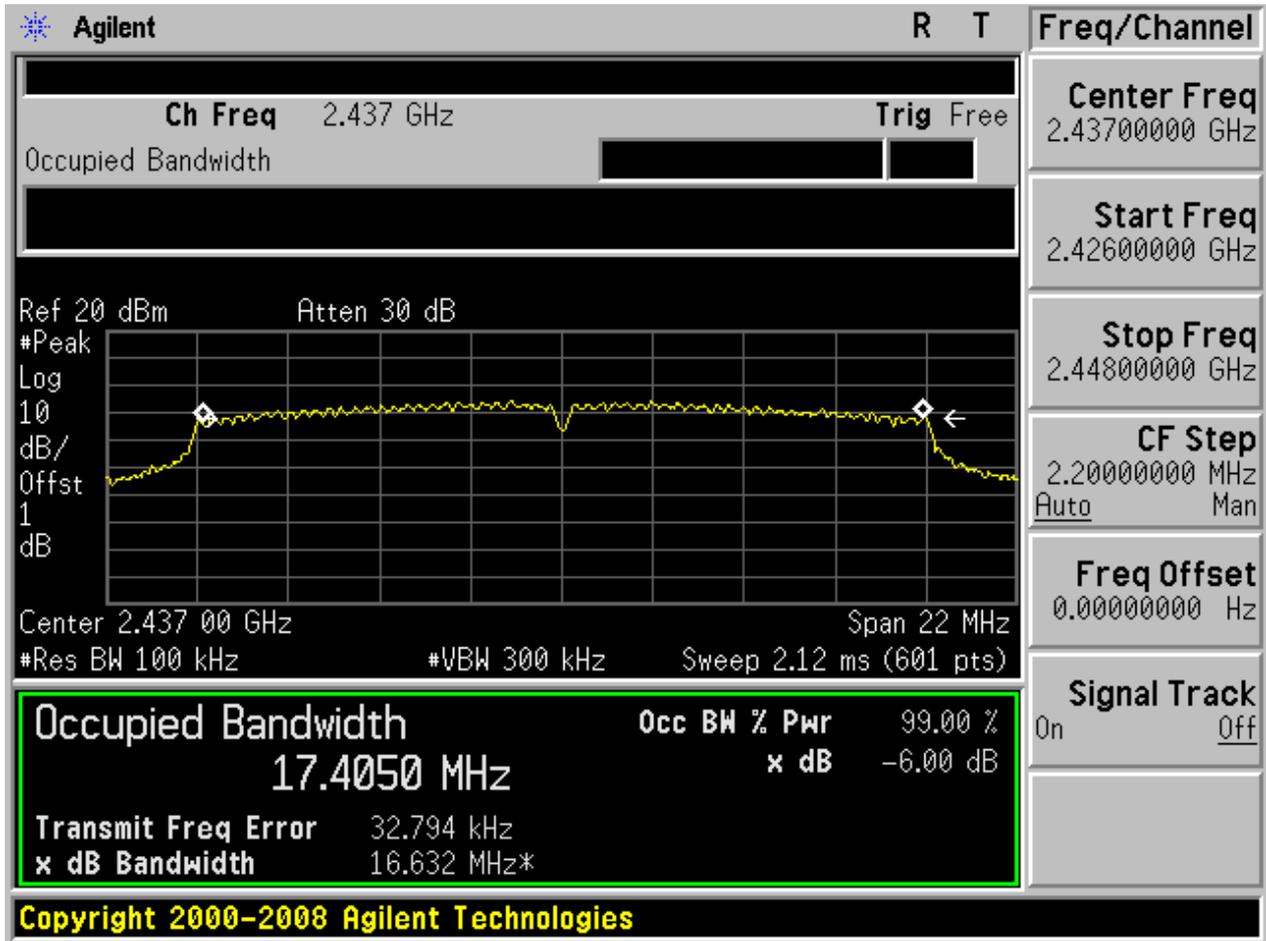


2.15 11N20_M@Ant 1



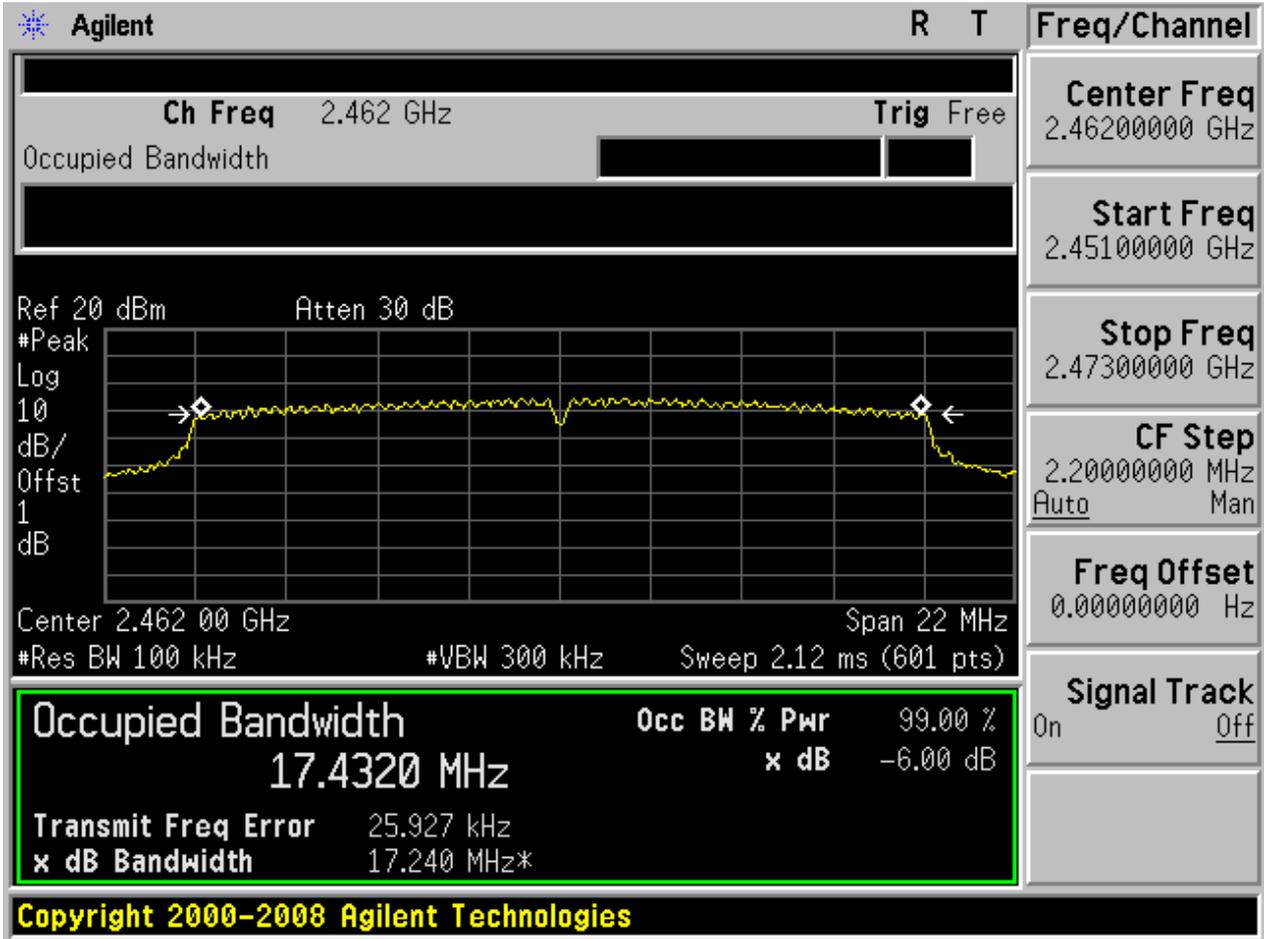


2.16 11N20_M@Ant 2



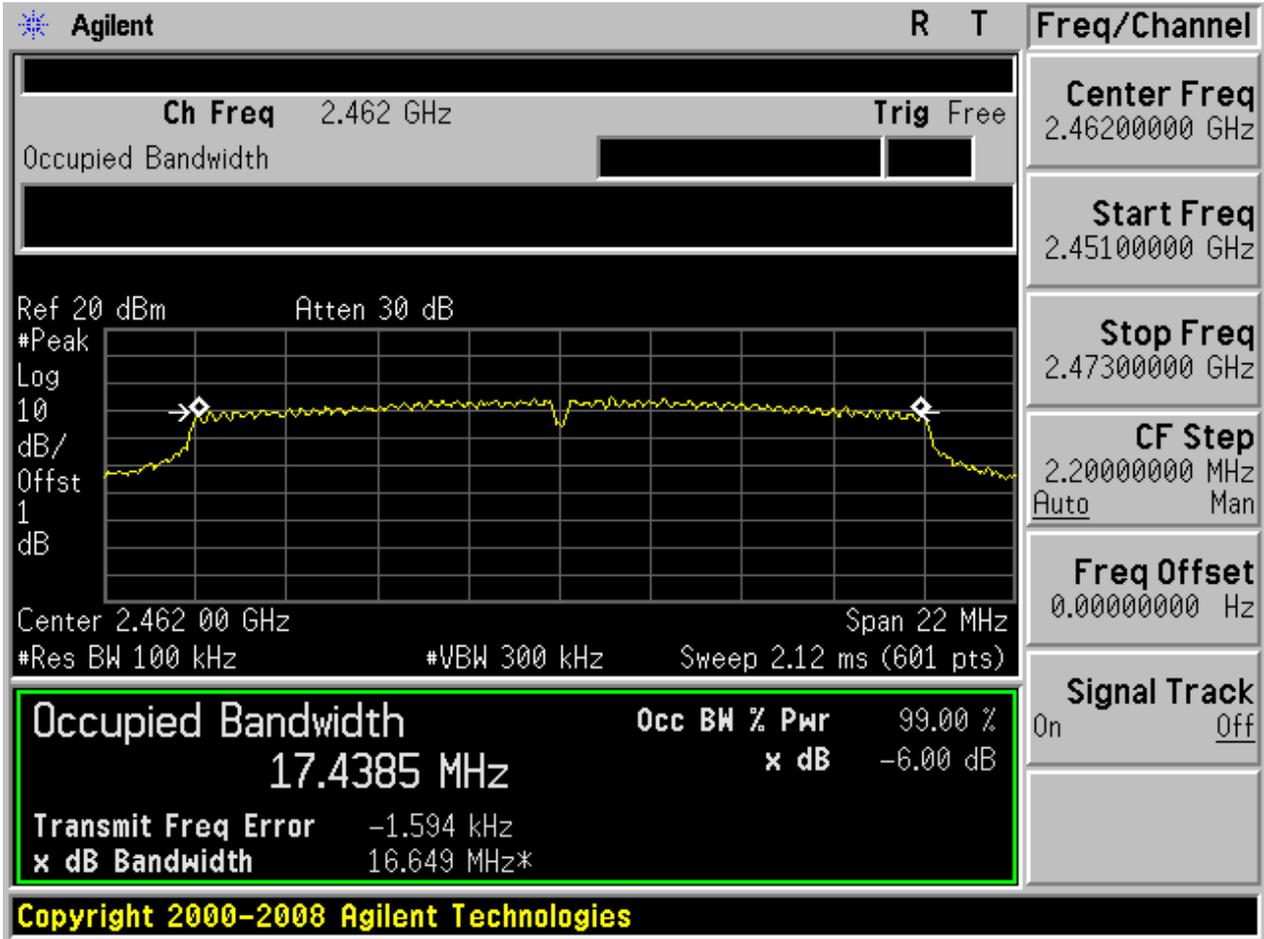


2.17 11N20_H@Ant 1



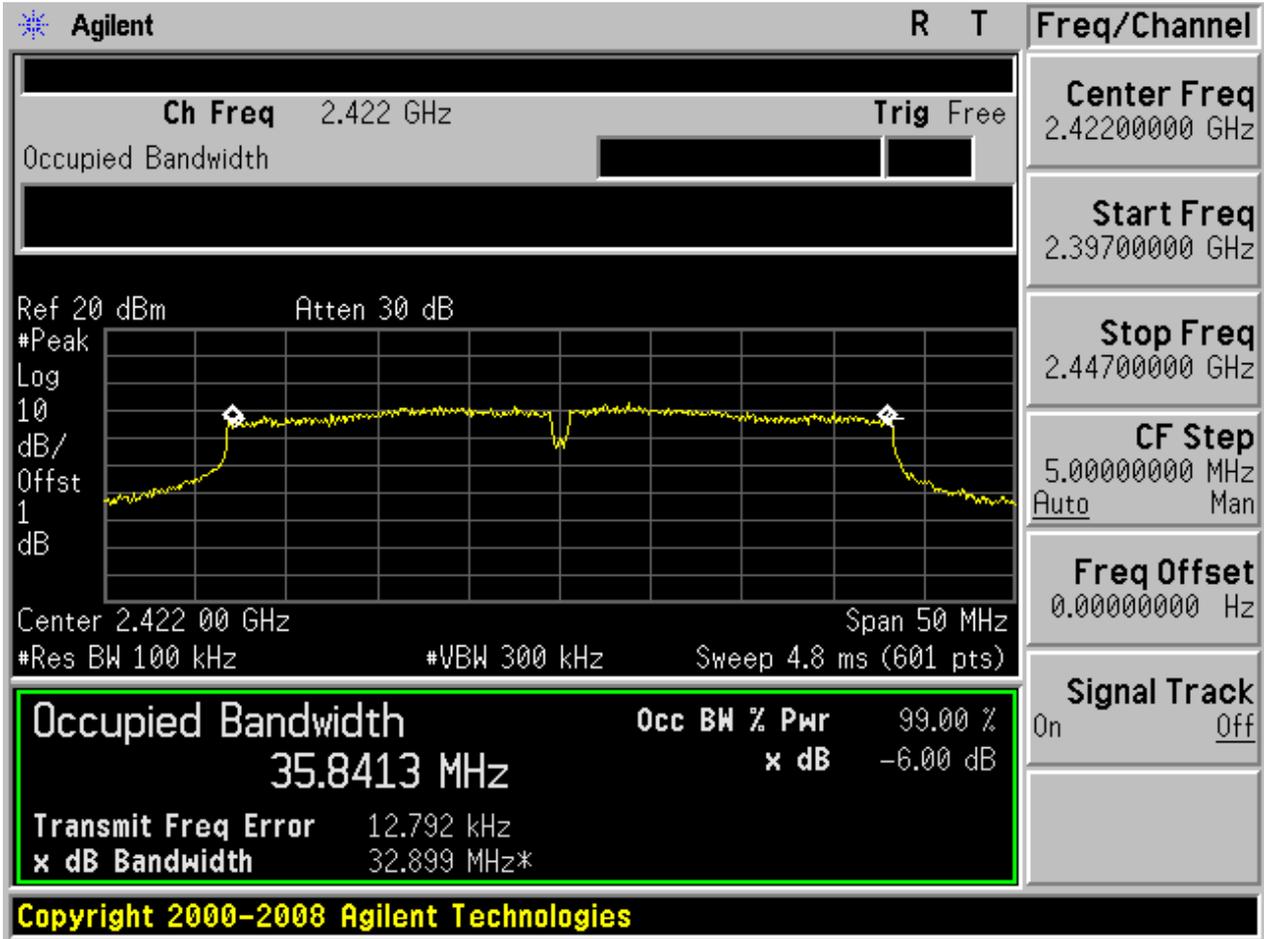


2.18 11N20_H@Ant 2



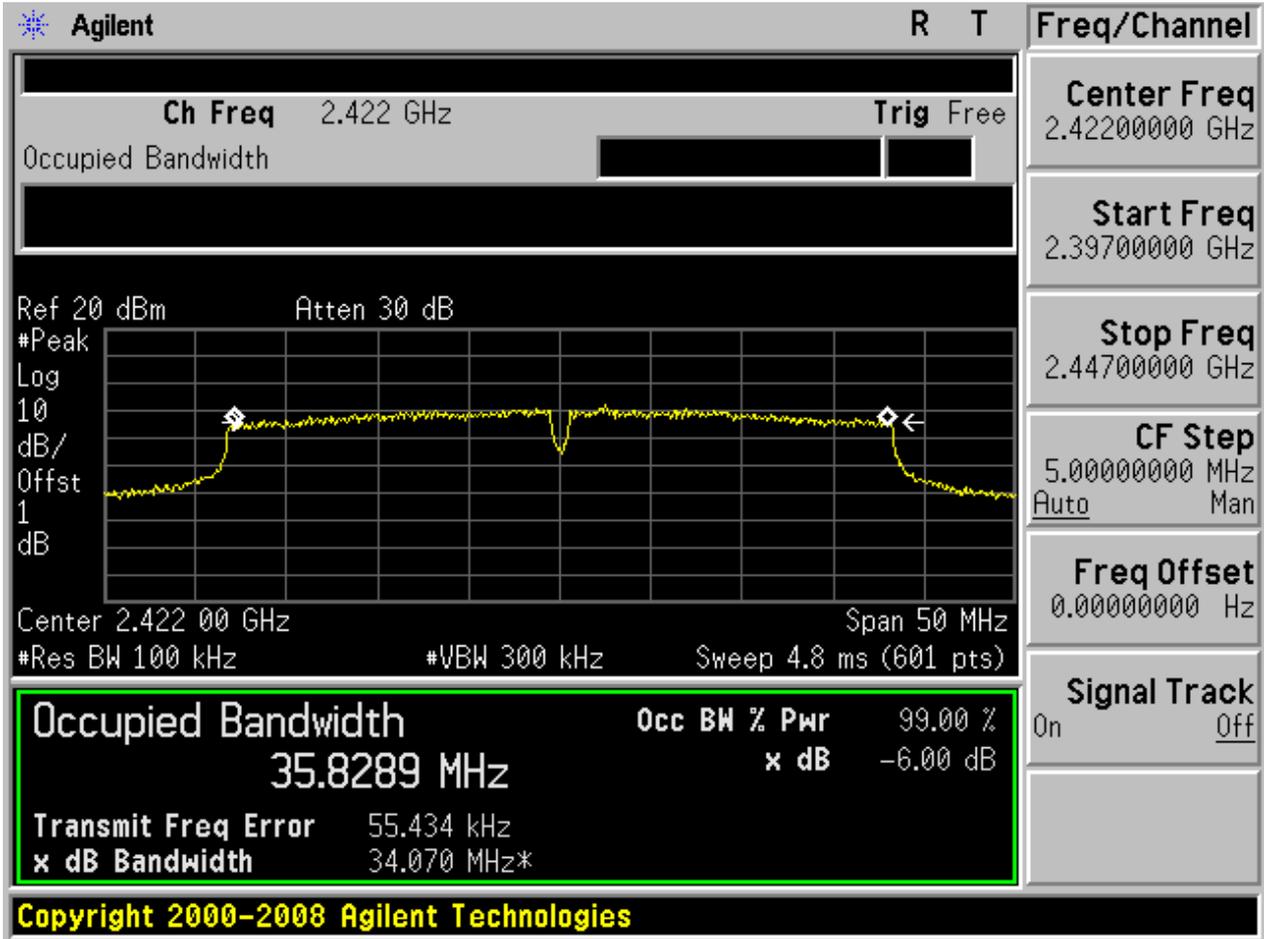


2.19 11N40_L@Ant 1



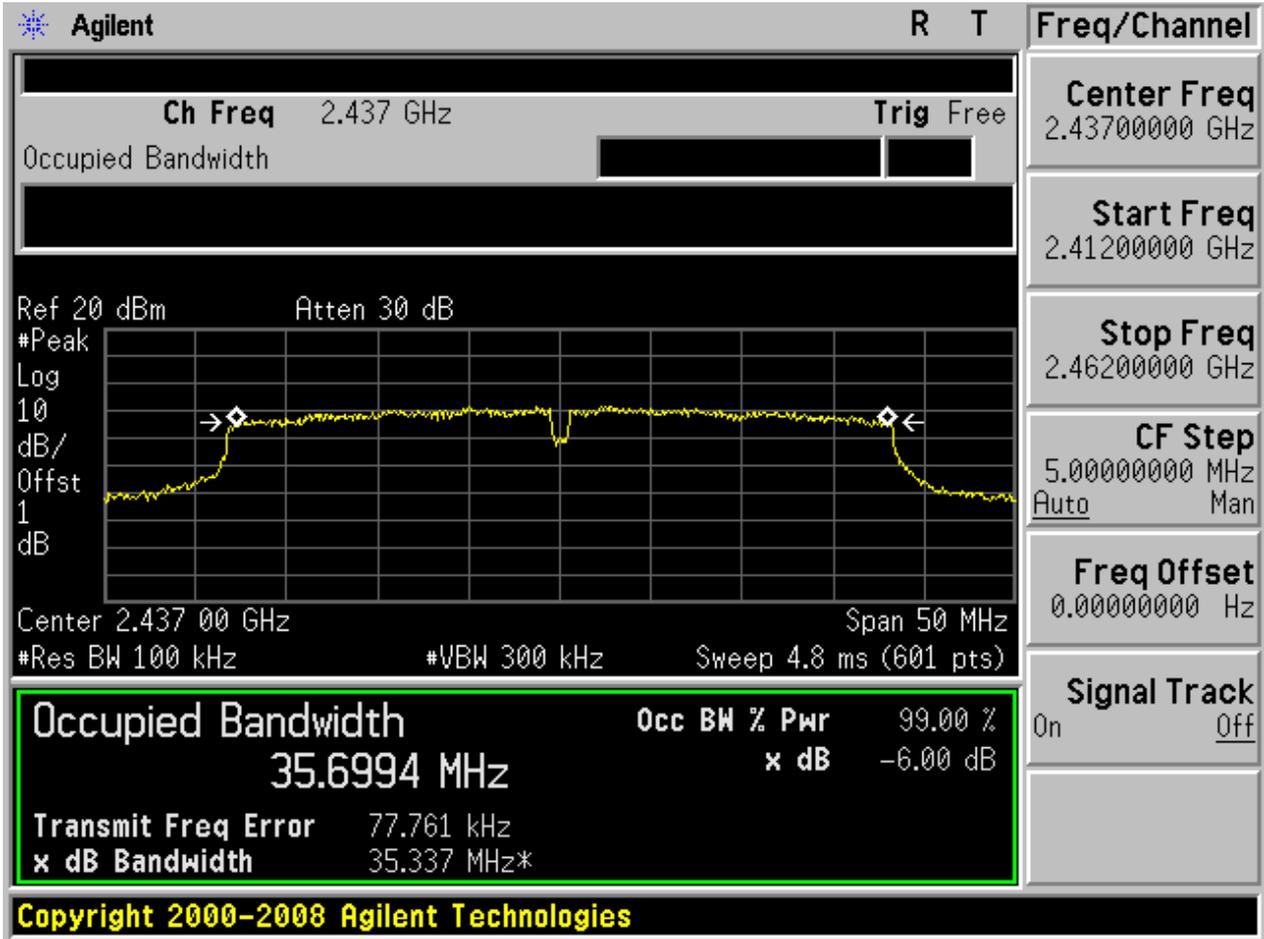


2.20 11N40_L@Ant 2



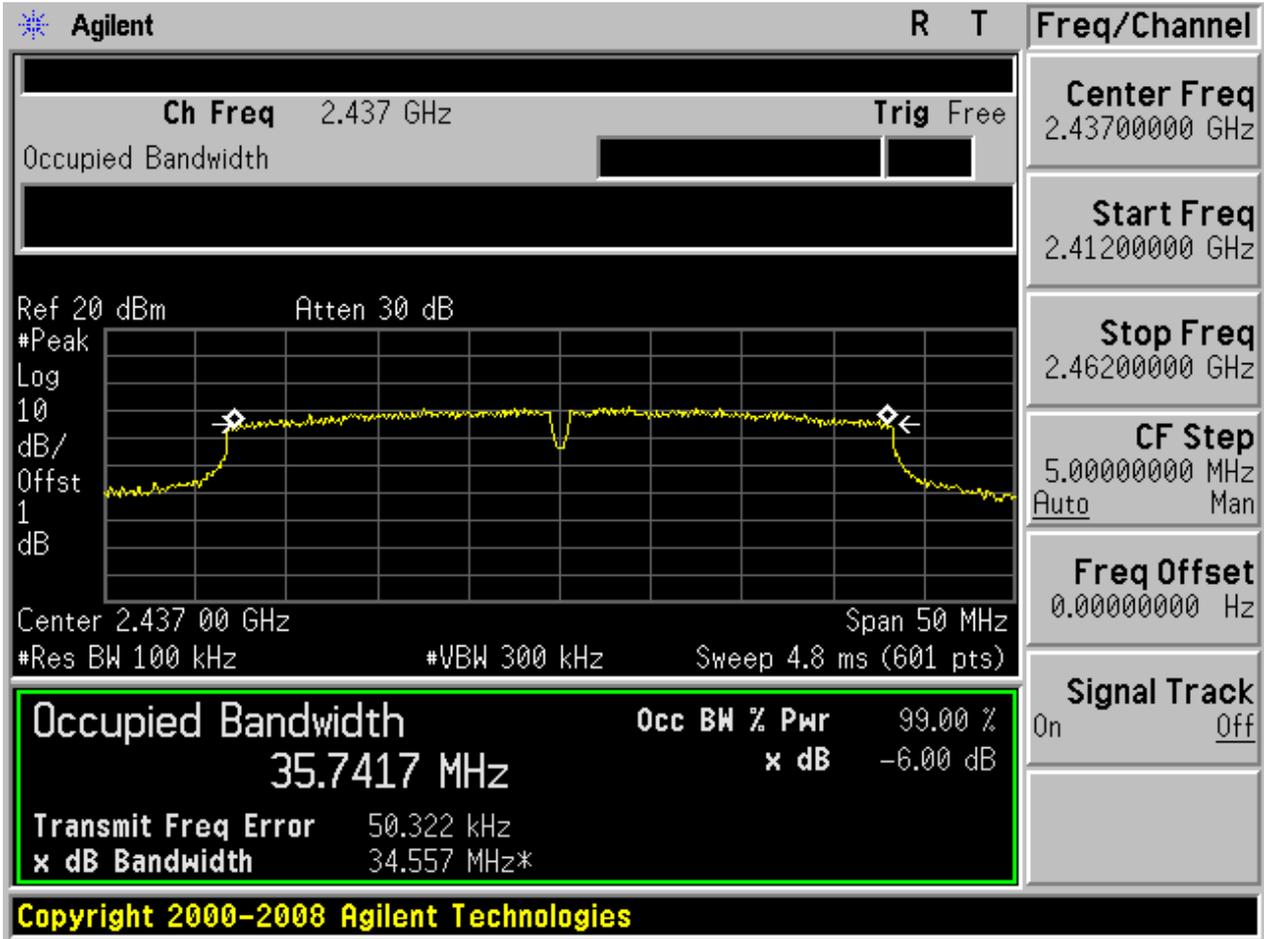


2.21 11N40_M@Ant 1



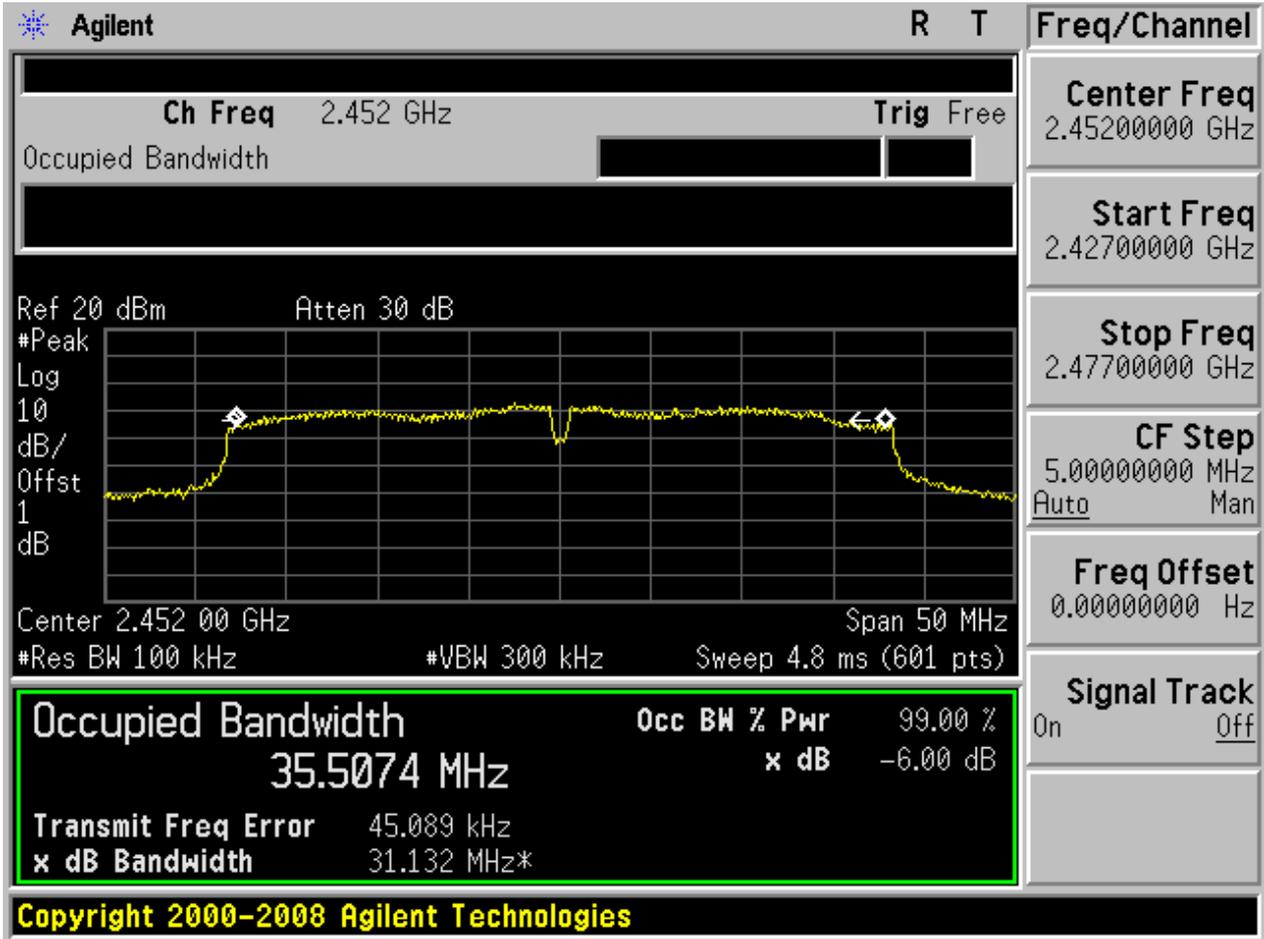


2.22 11N40_M@Ant 2



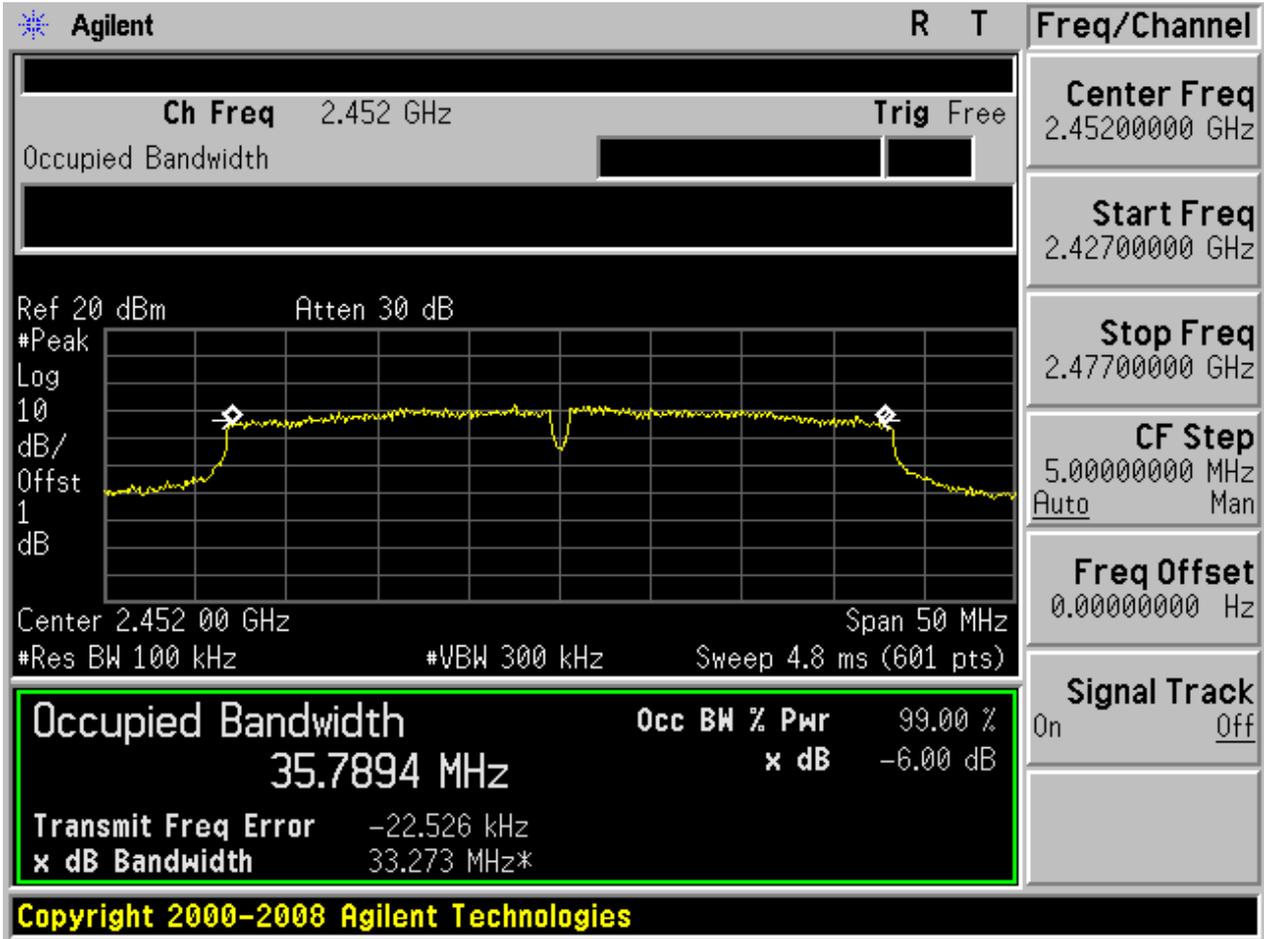


2.23 11N40_H@Ant 1





2.24 11N40_H@Ant 2





Appendix B: Maximum Peak Conducted Output Power

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Power Mode	Meas. Level (Cond.) [dBm]	Verdict
11B	L	2412	BG1	19.29	pass
11B	L	2412	BG2	18.05	pass
11B	M	2437	BG1	19.44	pass
11B	M	2437	BG2	18.51	pass
11B	H	2462	BG1	19.53	pass
11B	H	2462	BG2	18.56	pass
11G	L	2412	BG1	22.64	pass
11G	L	2412	BG2	20.44	pass
11G	M	2437	BG1	22.79	pass
11G	M	2437	BG2	20.69	pass
11G	H	2462	BG1	22.88	pass
11G	H	2462	BG2	20.74	pass
11N20	L	2412	BG1	21.76	pass
11N20	L	2412	BG2	19.93	pass
11N20	M	2437	BG1	21.91	pass
11N20	M	2437	BG2	20.09	pass
11N20	H	2462	BG1	21.92	pass
11N20	H	2462	BG2	20.31	pass
11N40	L	2422	BG1	23.09	pass
11N40	L	2422	BG2	21.69	pass
11N40	M	2437	BG1	23.35	pass
11N40	M	2437	BG2	21.48	pass
11N40	H	2452	BG1	23.32	pass
11N40	H	2452	BG2	21.71	pass



Appendix C: Maximum Power Spectral Density Level

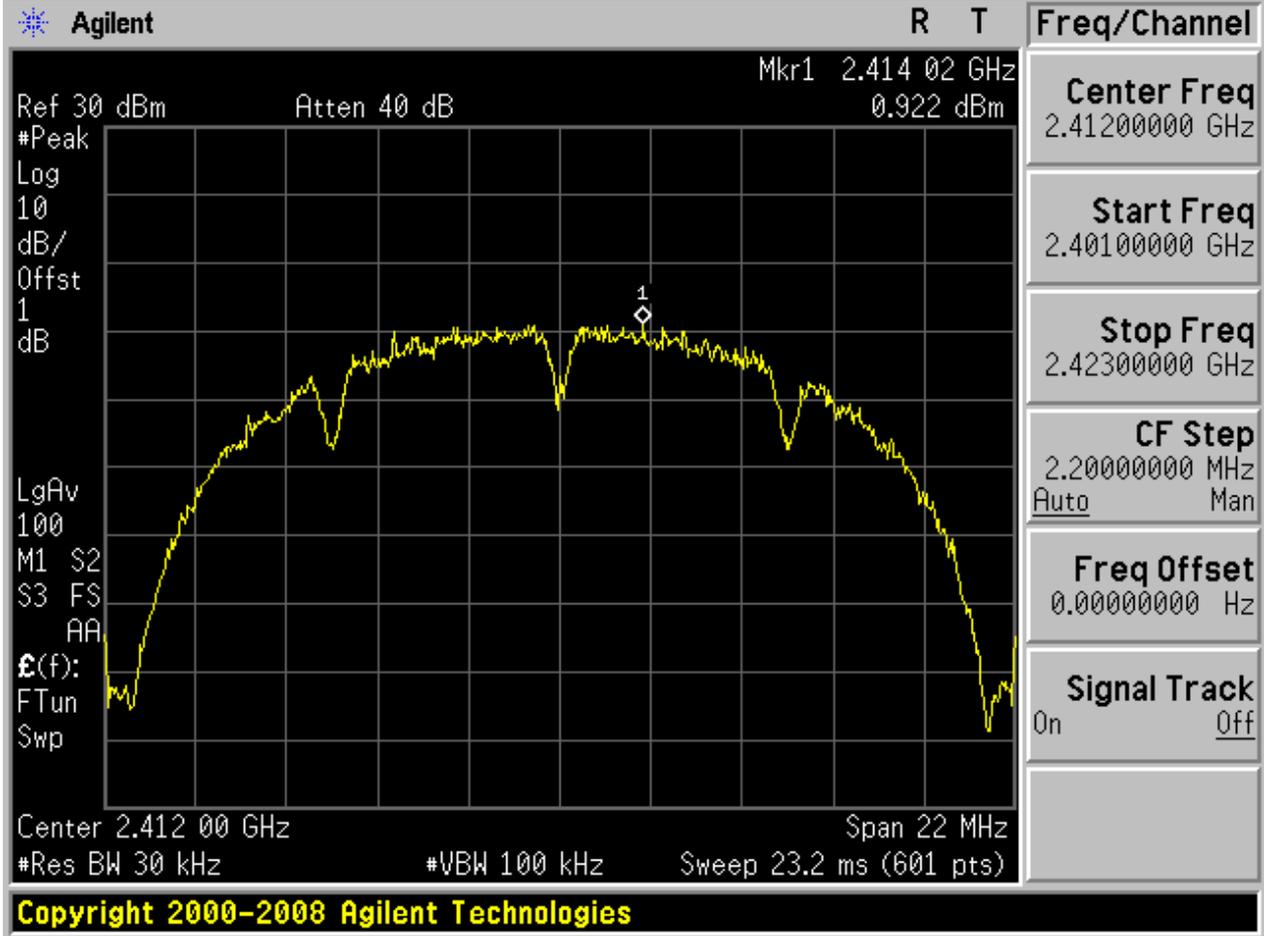
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	PD[MHz]	Verdict
11B	L	2412	Ant 1	0.92	pass
11B	L	2412	Ant 2	1.9	pass
11B	M	2437	Ant 1	3.83	pass
11B	M	2437	Ant 2	2.39	pass
11B	H	2462	Ant 1	2.93	pass
11B	H	2462	Ant 2	3.14	pass
11G	L	2412	Ant 1	-0.75	pass
11G	L	2412	Ant 2	-2.2	pass
11G	M	2437	Ant 1	-0.63	pass
11G	M	2437	Ant 2	-2.27	pass
11G	H	2462	Ant 1	-0.65	pass
11G	H	2462	Ant 2	-1.8	pass
11N20	L	2412	Ant 1	-2.18	pass
11N20	L	2412	Ant 2	-3.76	pass
11N20	M	2437	Ant 1	-0.93	pass
11N20	M	2437	Ant 2	-2	pass
11N20	H	2462	Ant 1	-0.62	pass
11N20	H	2462	Ant 2	-1.73	pass
11N40	L	2422	Ant 1	-4.22	pass
11N40	L	2422	Ant 2	-5.98	pass
11N40	M	2437	Ant 1	-4.37	pass
11N40	M	2437	Ant 2	-5.86	pass
11N40	H	2452	Ant 1	-4.47	pass
11N40	H	2452	Ant 2	-5.68	pass



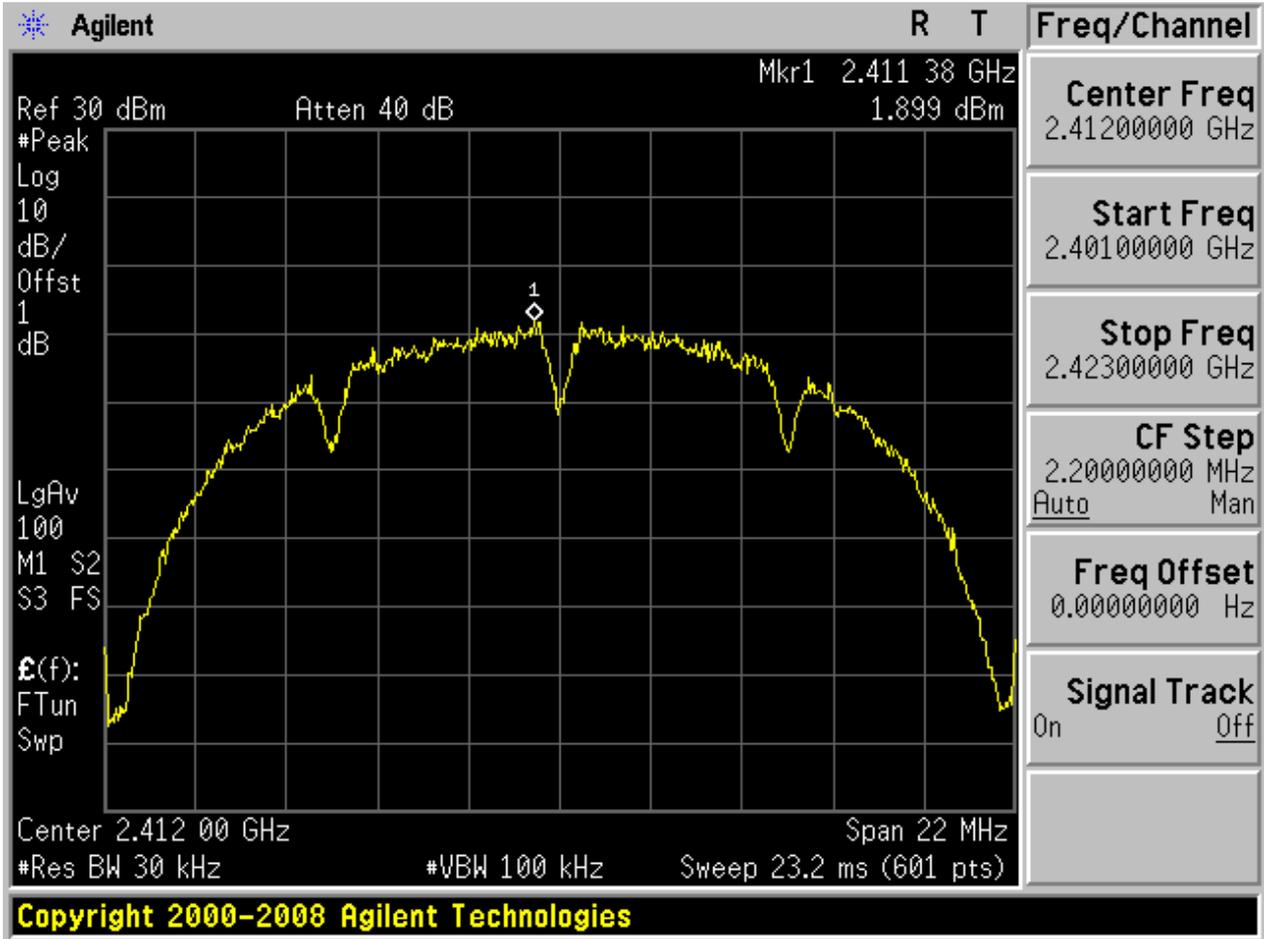
Part II - Test Plots

2.1 11B_L@Ant 1

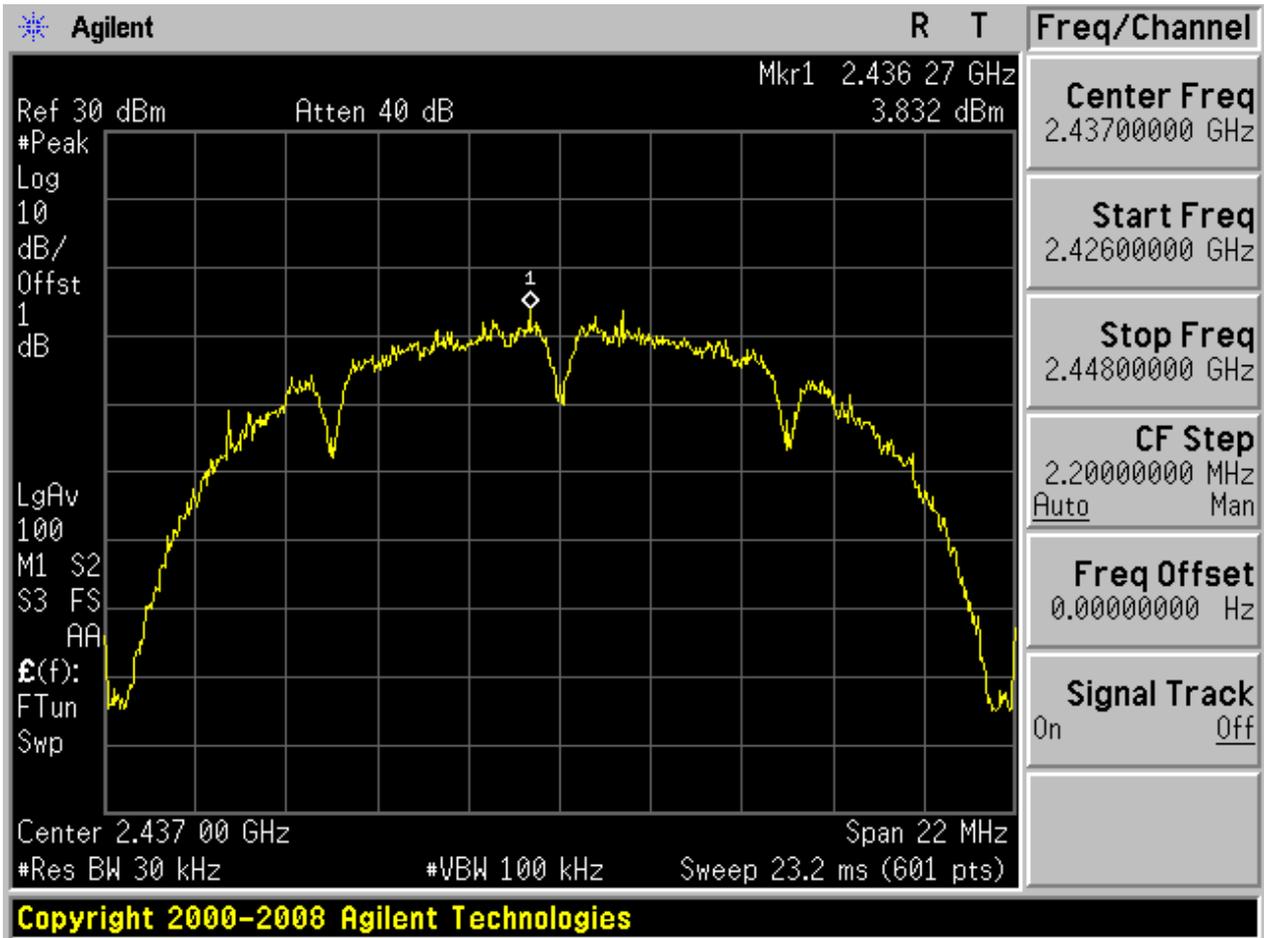




2.2 11B_L@Ant 2

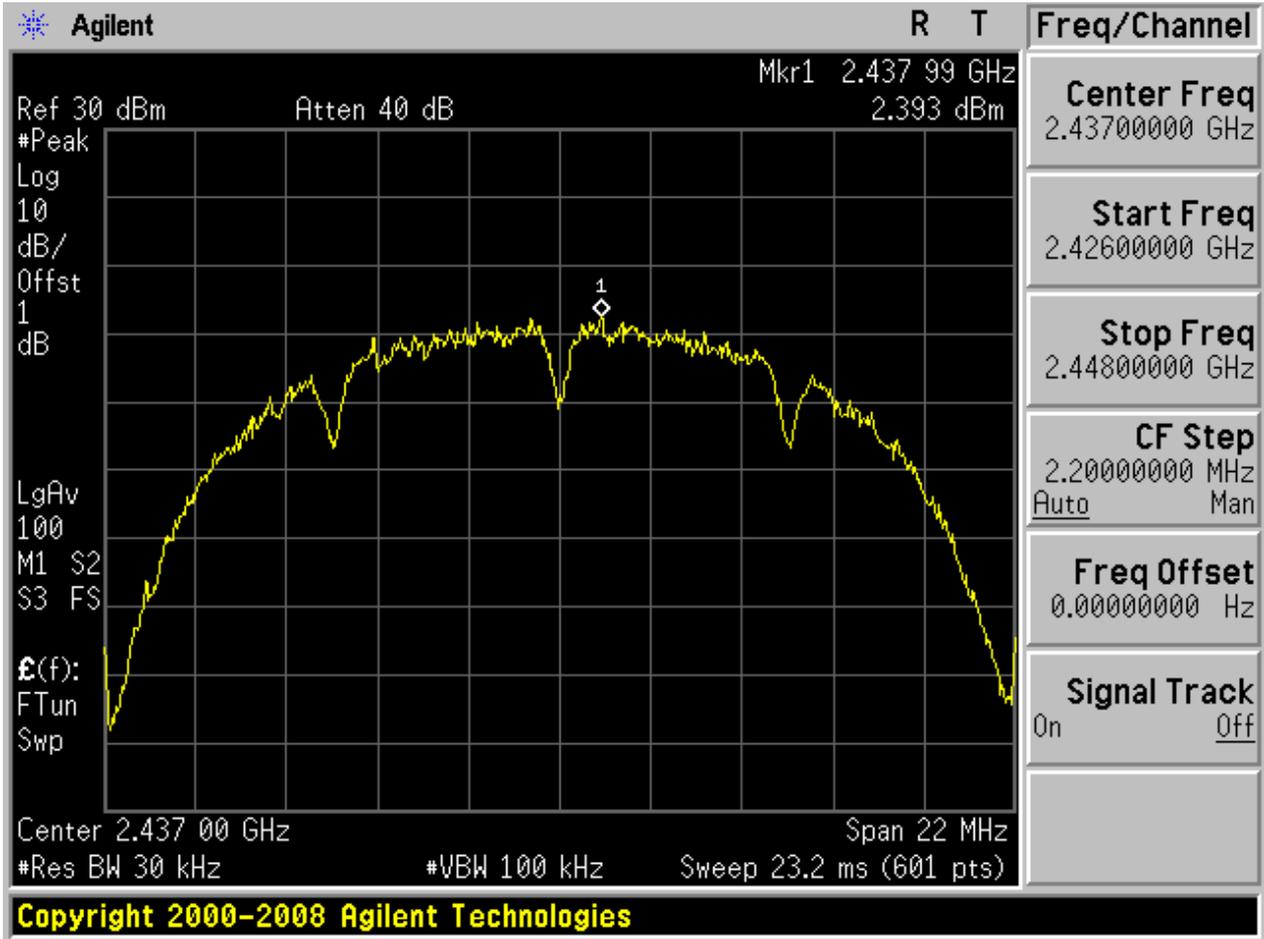


2.3 11B_M@Ant 1



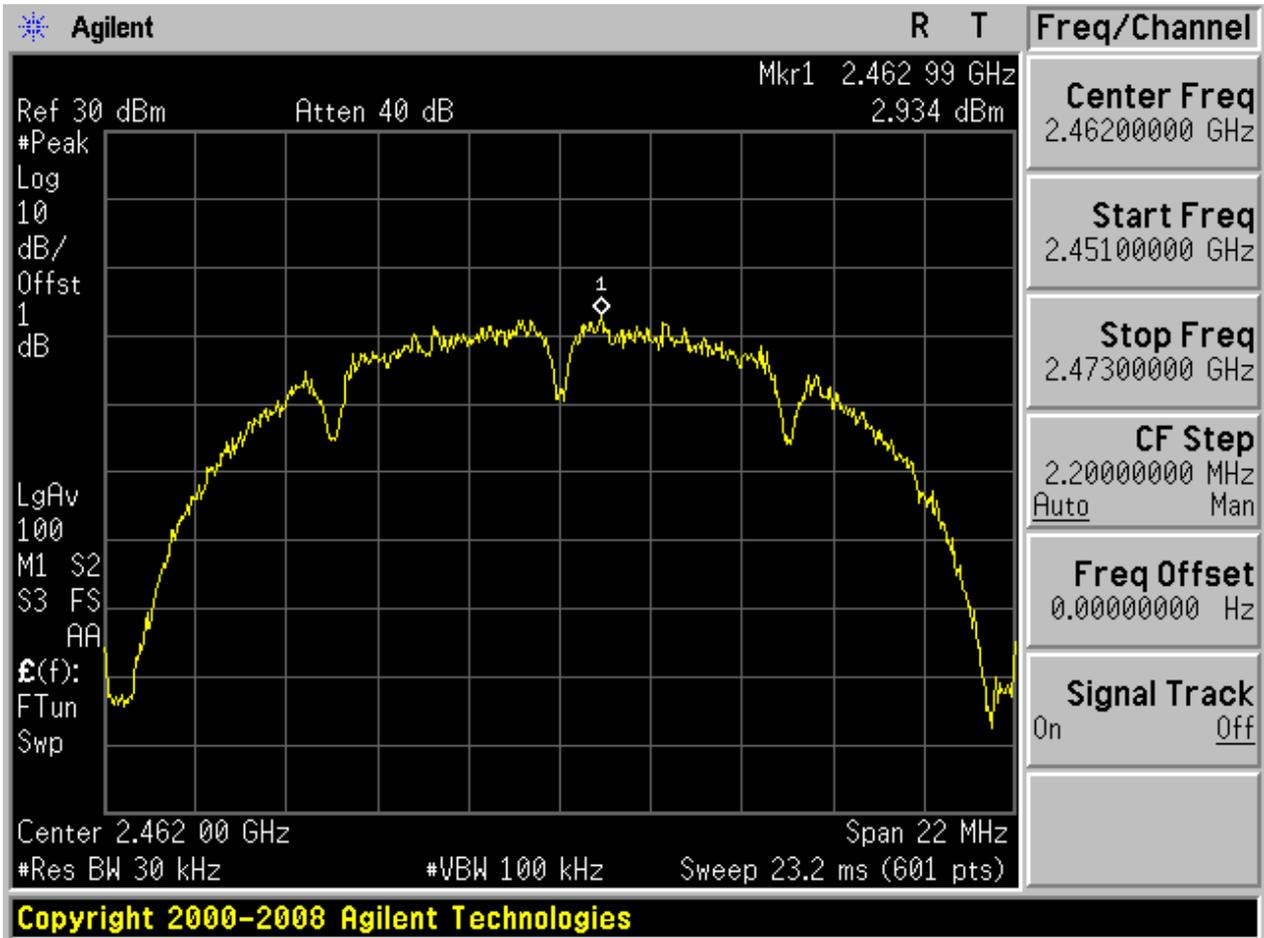


2.4 11B_M@Ant 2



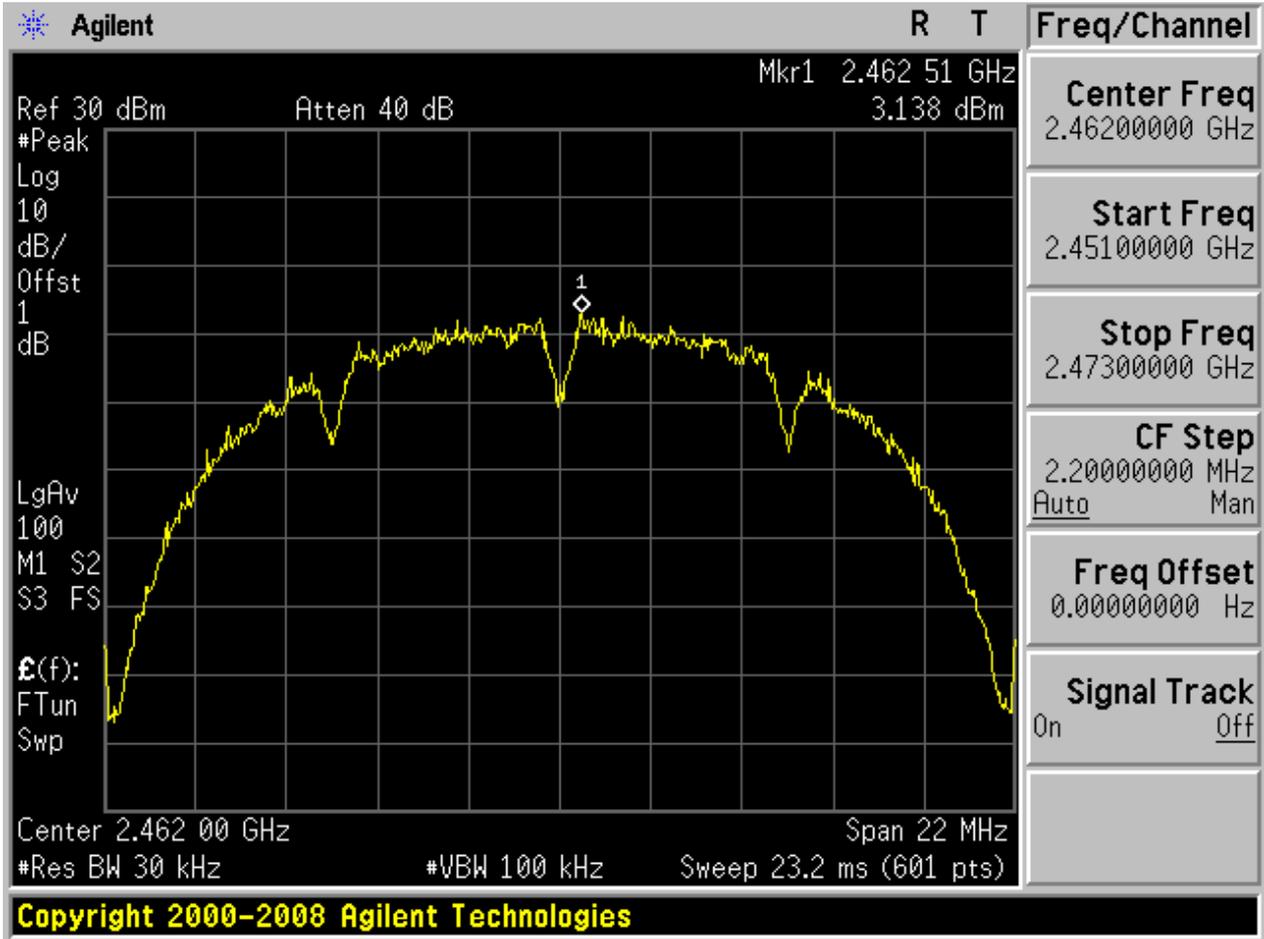


2.5 11B_H@Ant 1



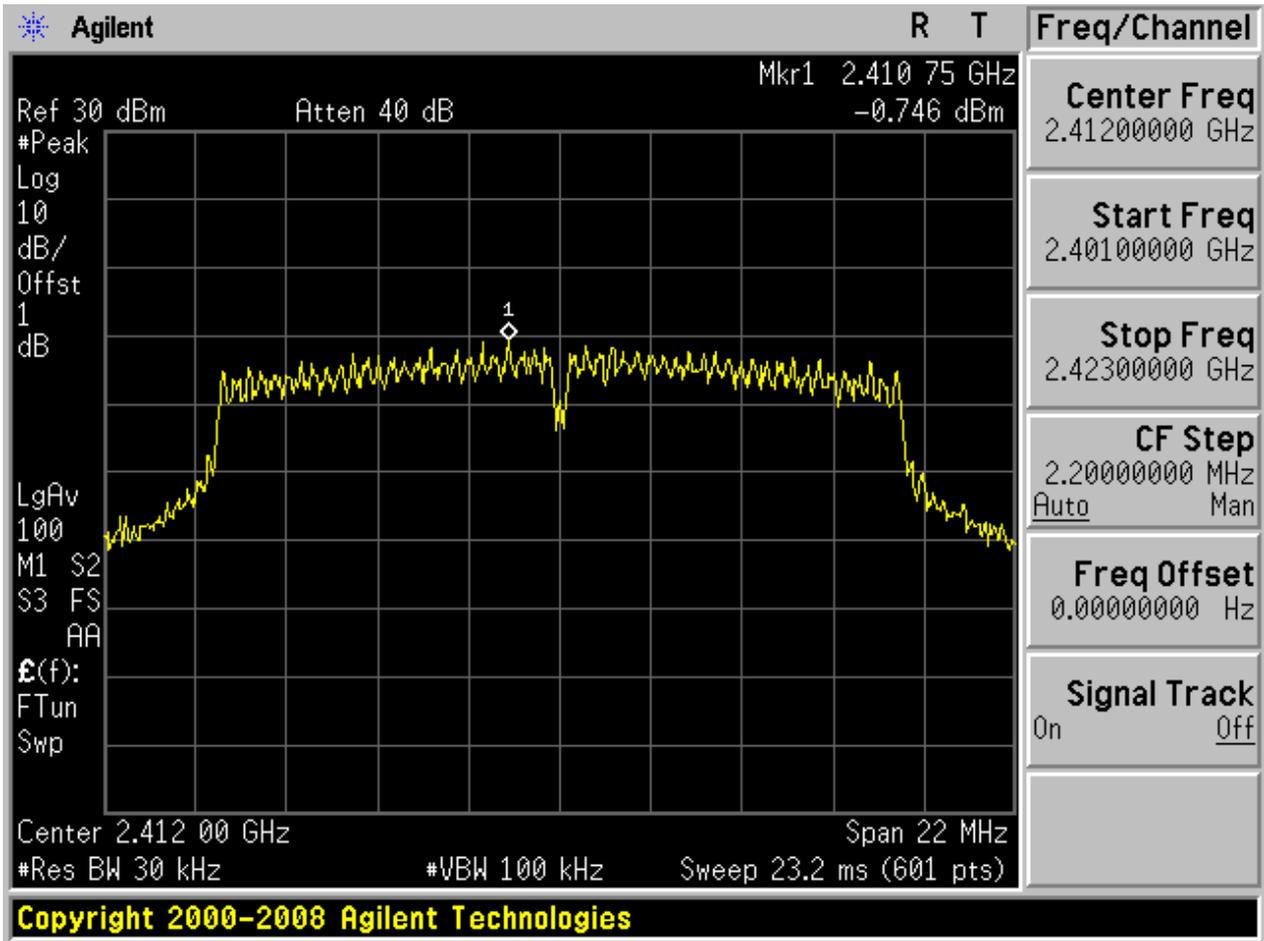


2.6 11B_H@Ant 2



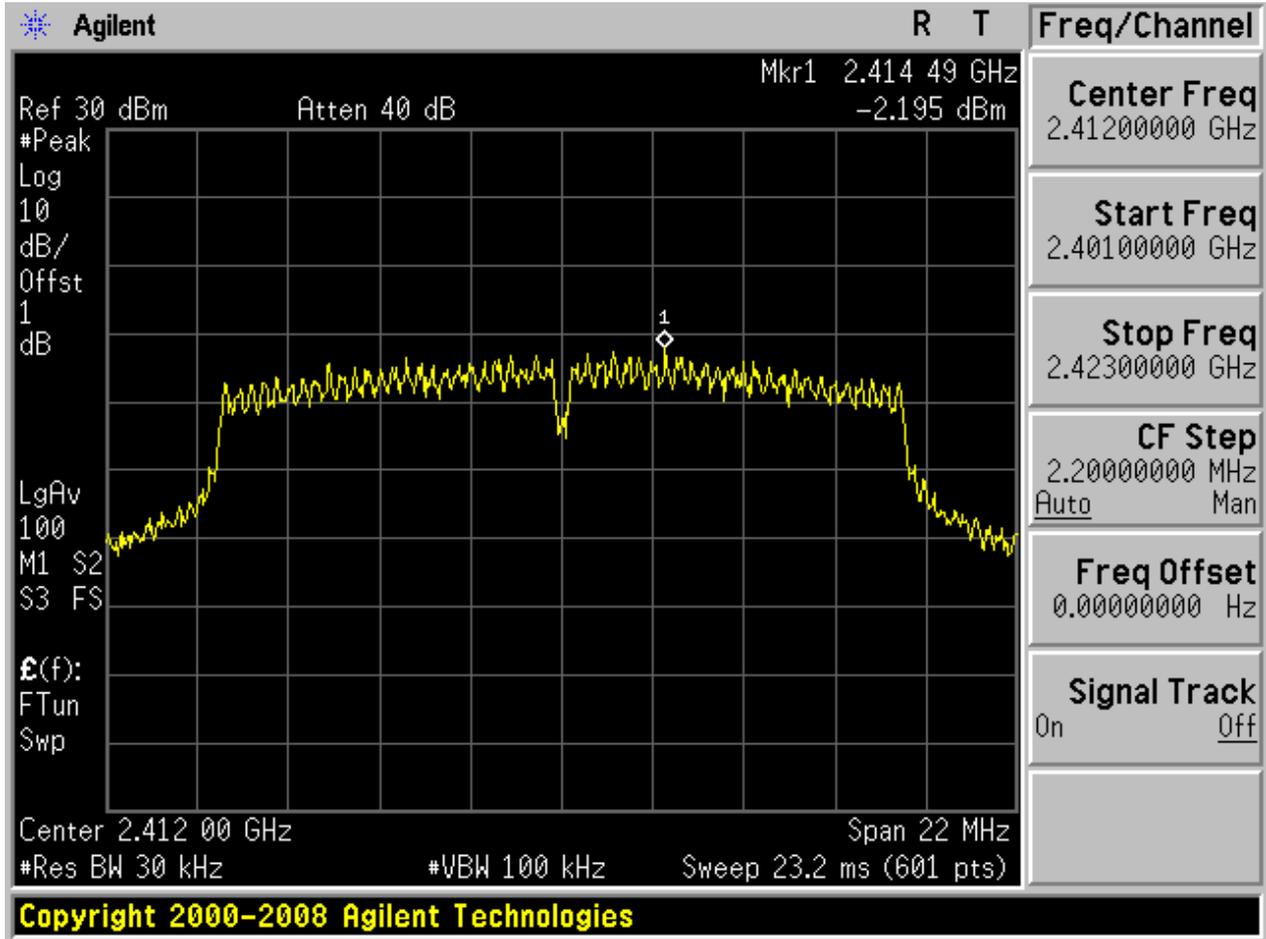


2.7 11G_L@Ant 1



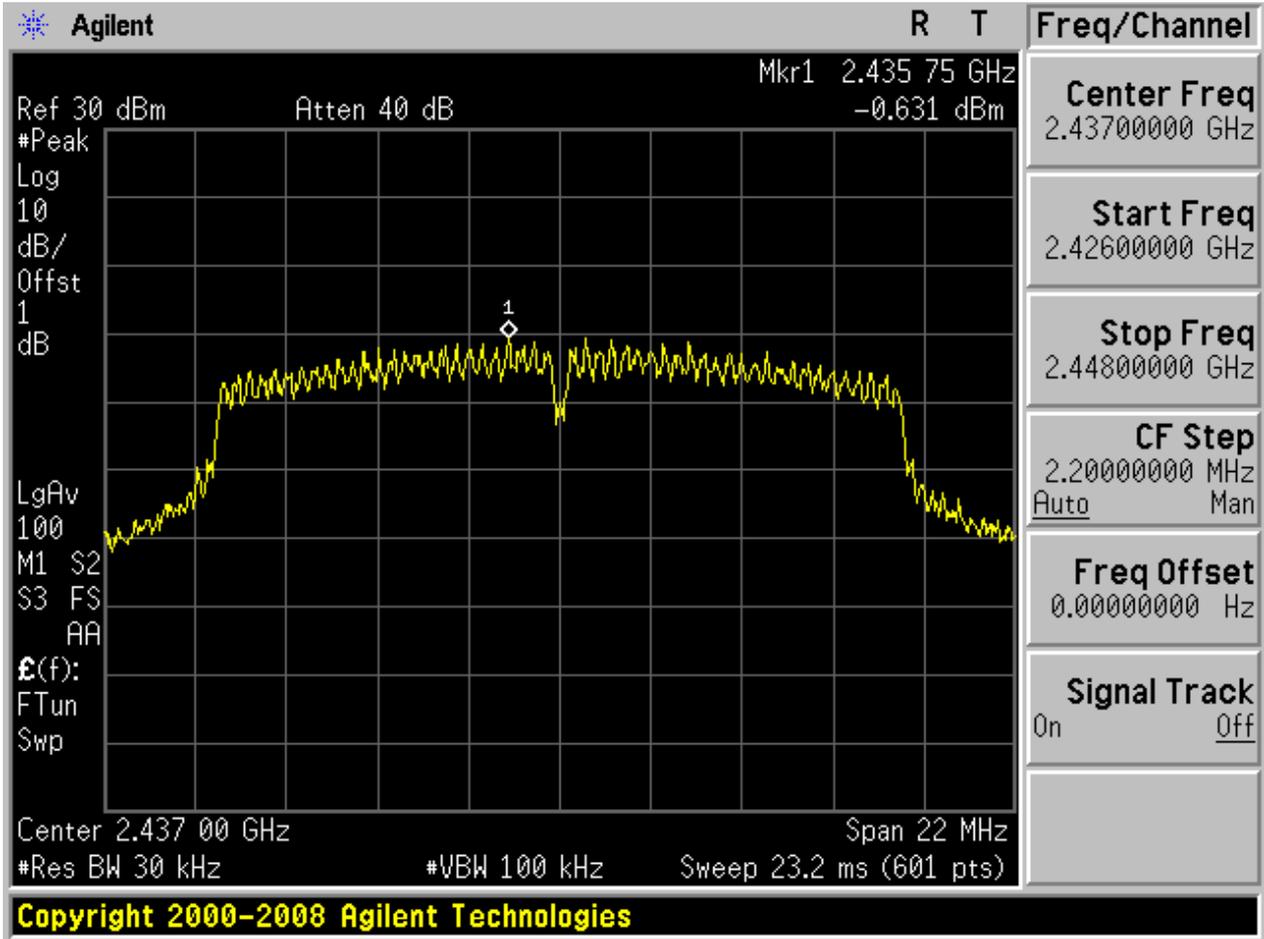


2.8 11G_L@Ant 2



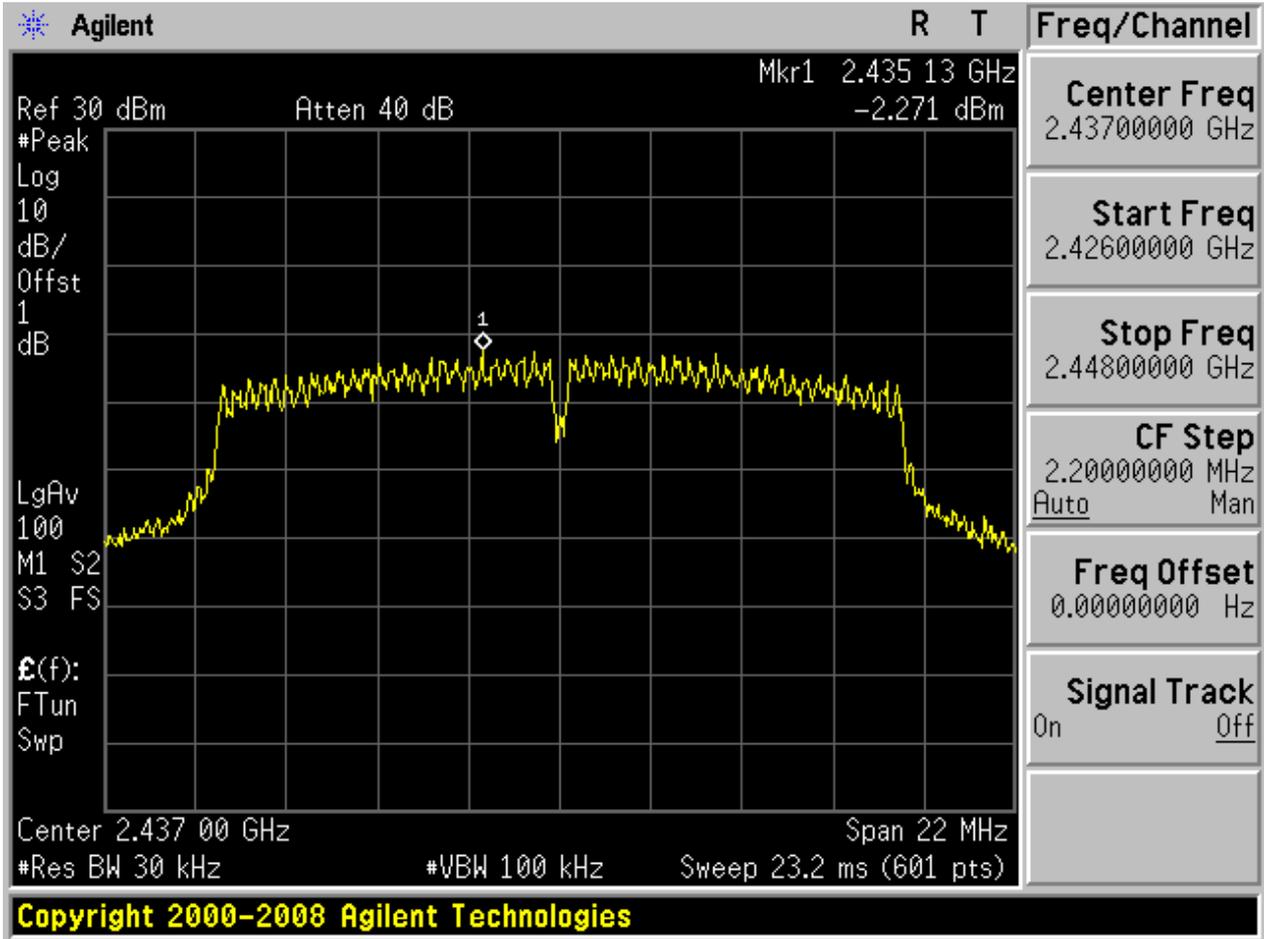


2.9 11G_M@Ant 1



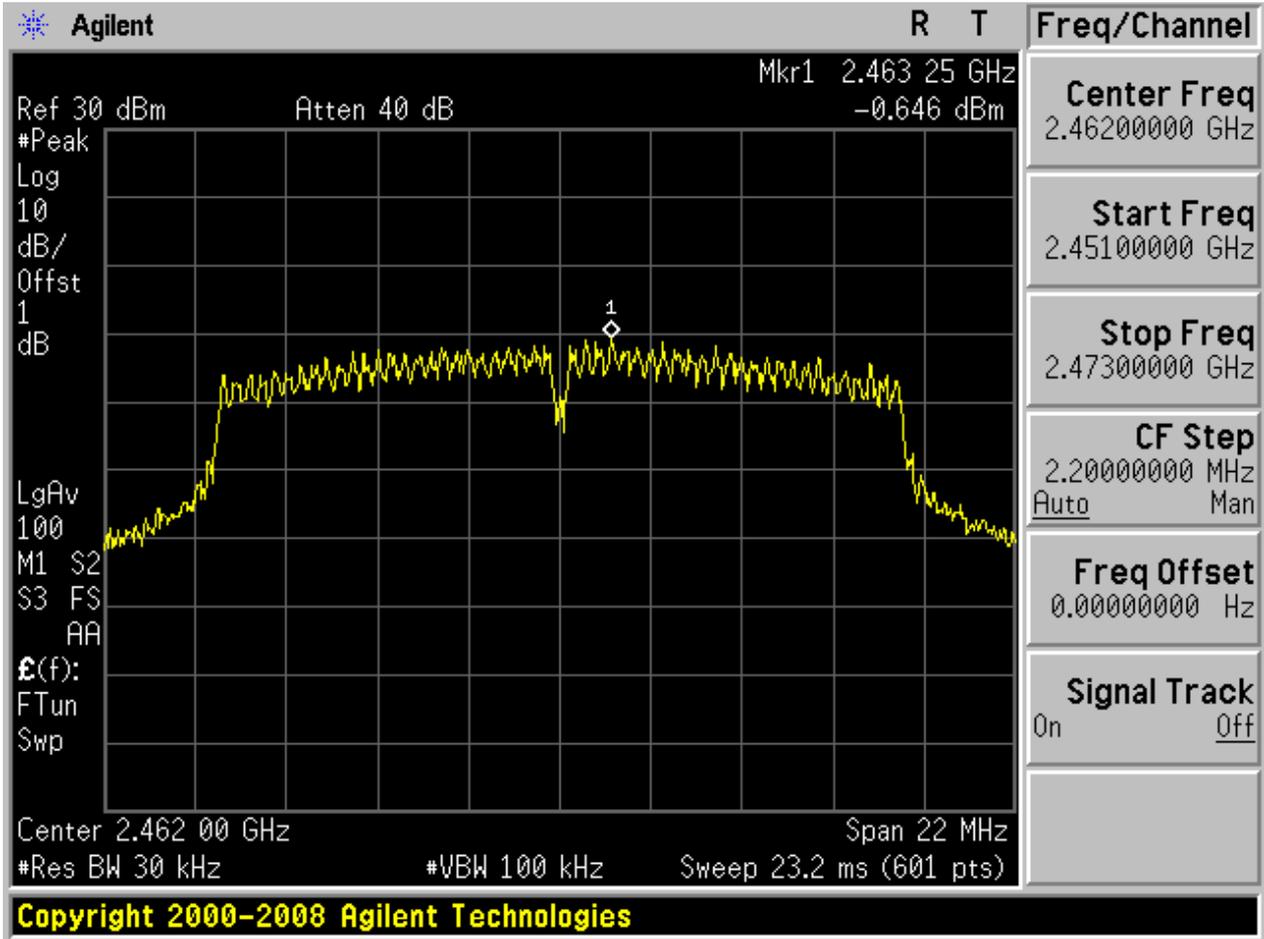


2.10 11G_M@Ant 2



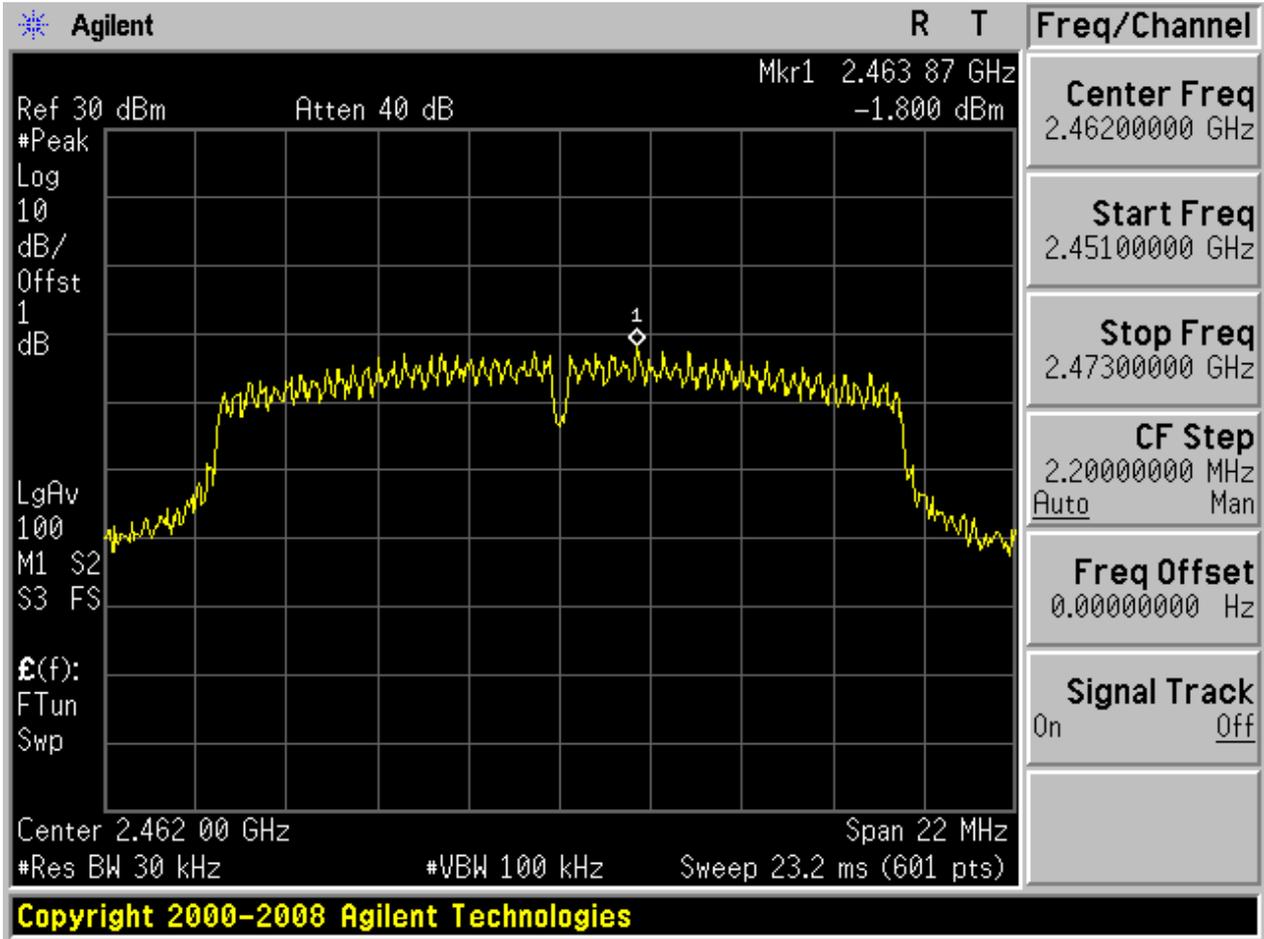


2.11 11G_H@Ant 1



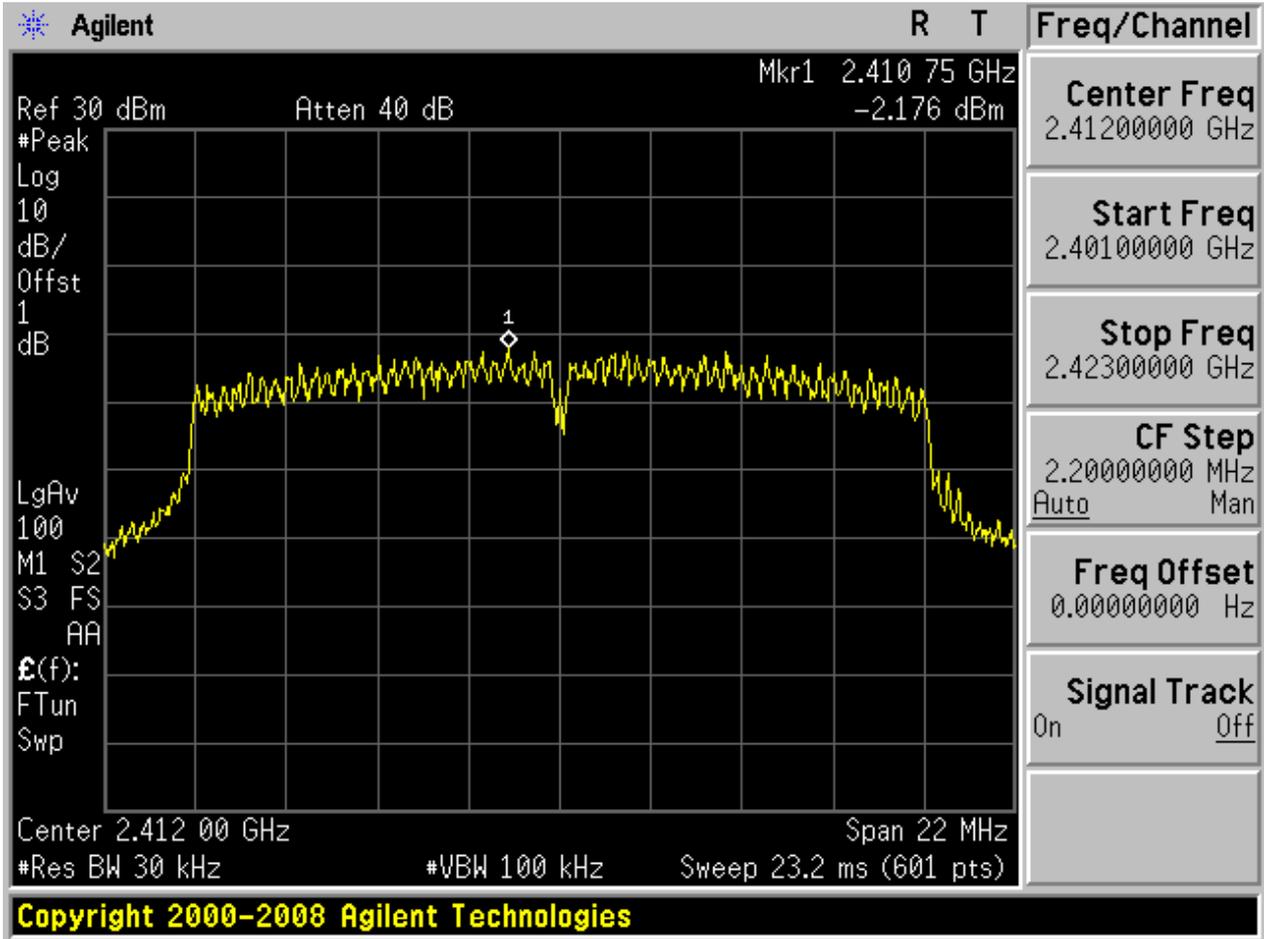


2.12 11G_H@Ant 2



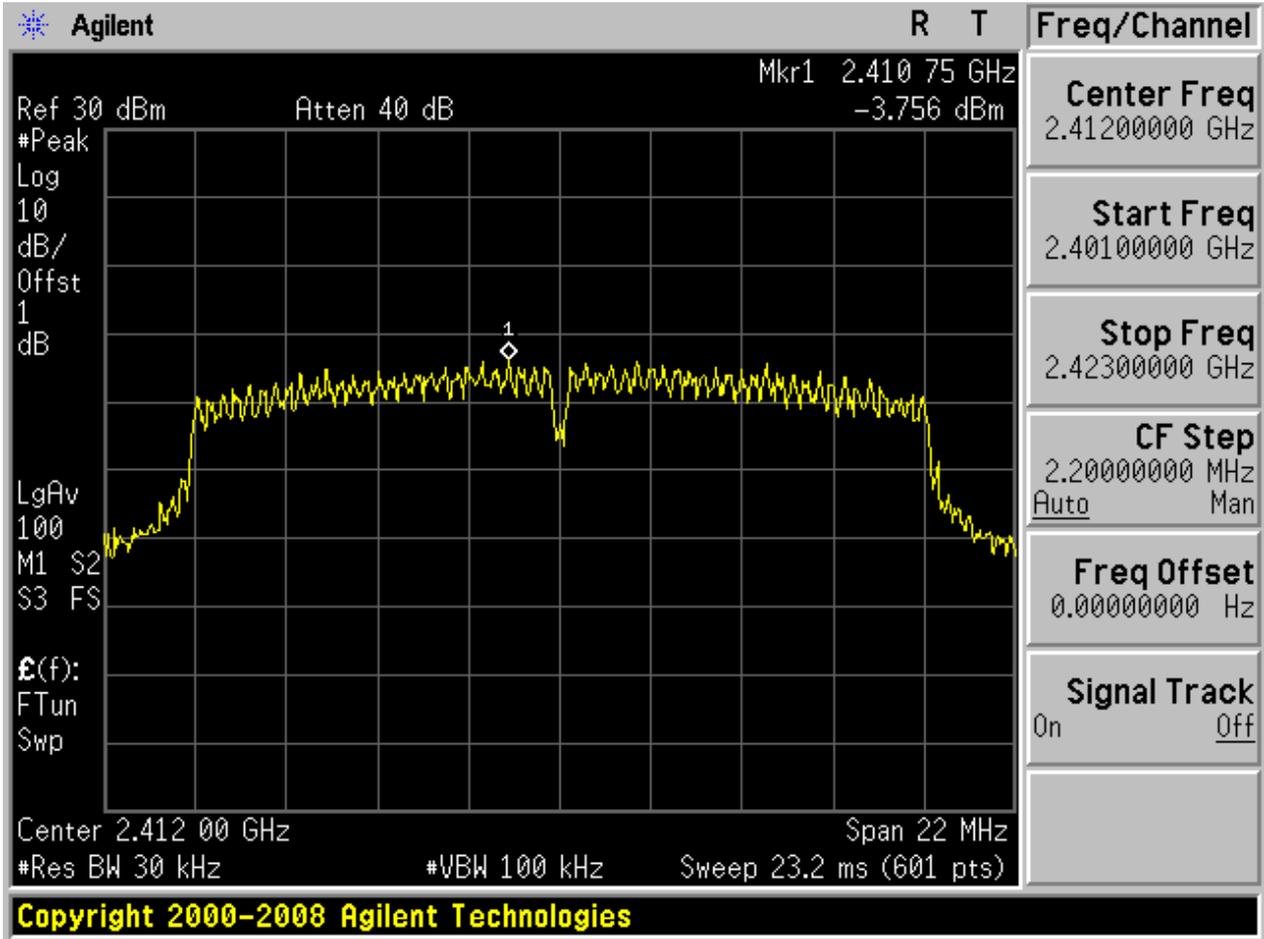


2.13 11N20_L@Ant 1



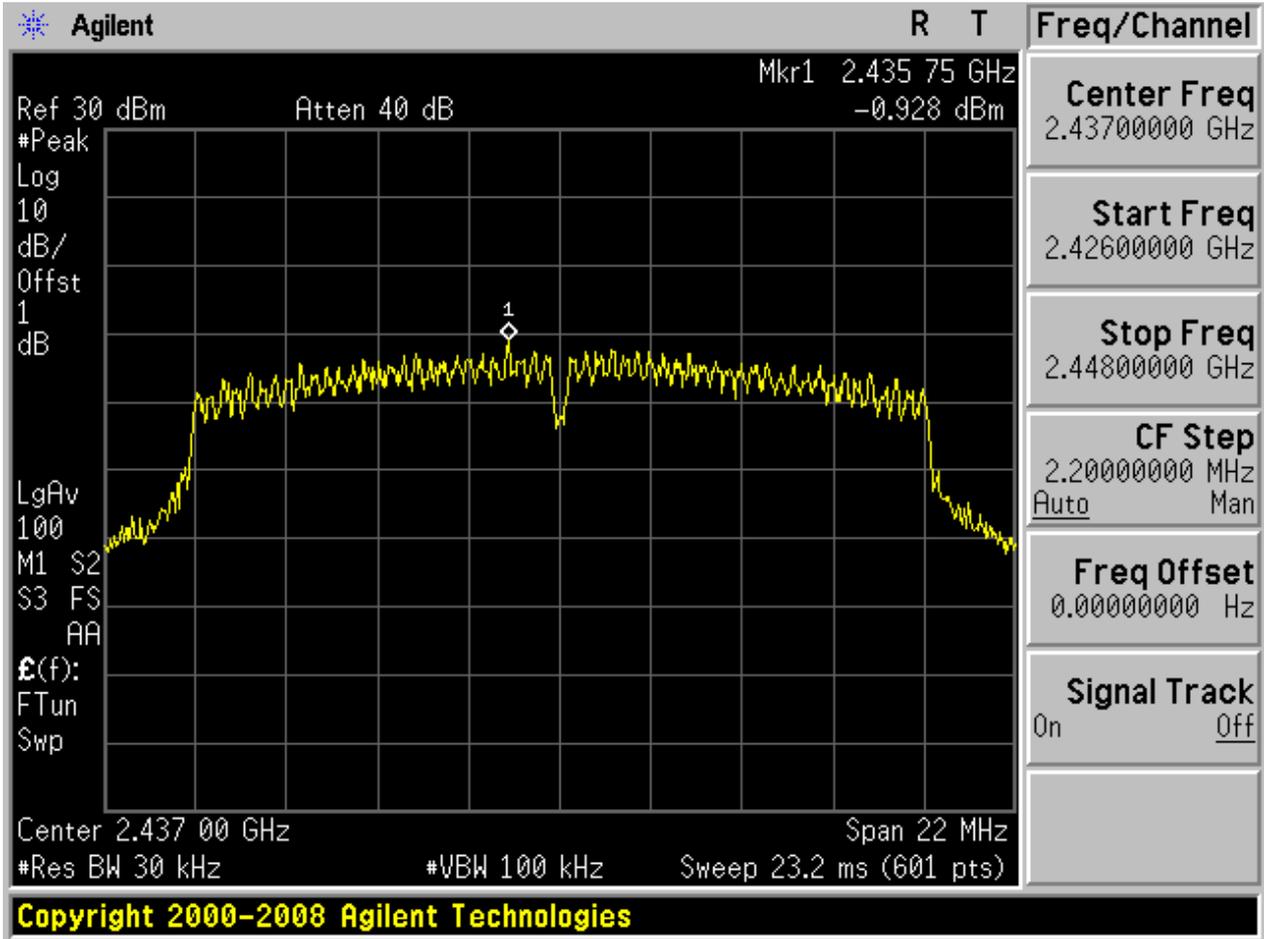


2.14 11N20_L@Ant 2

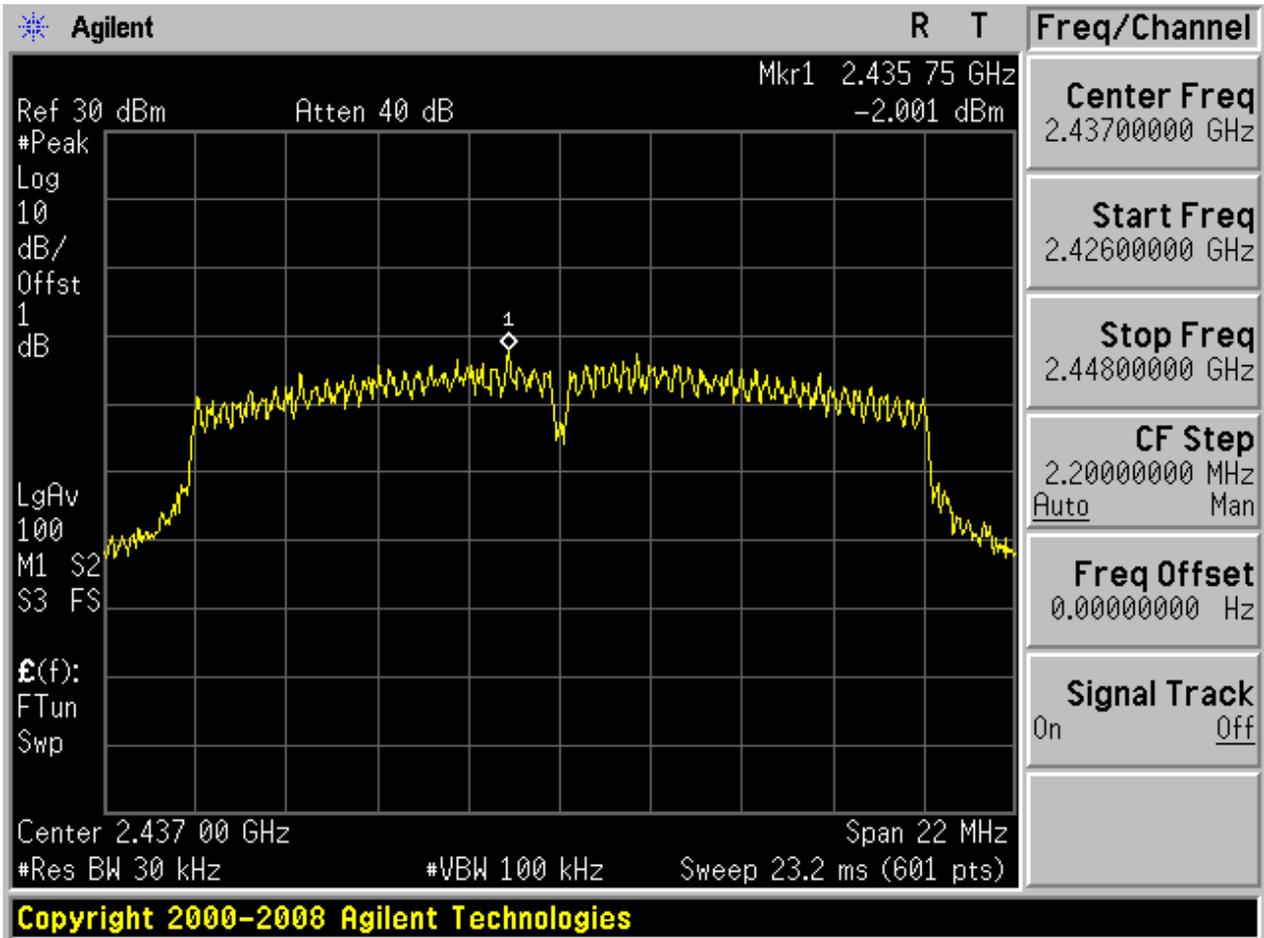




2.15 11N20_M@Ant 1

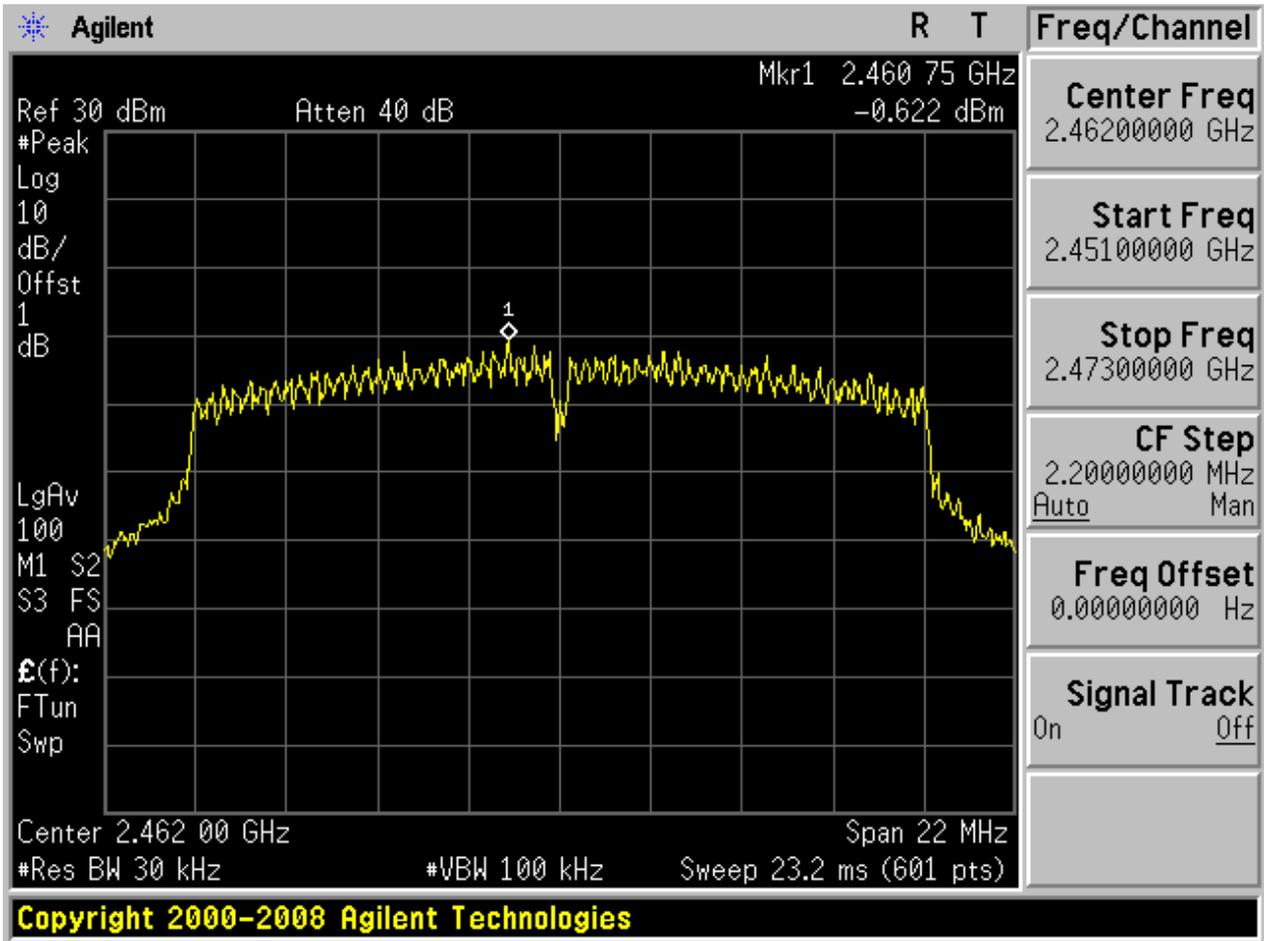


2.16 11N20_M@Ant 2

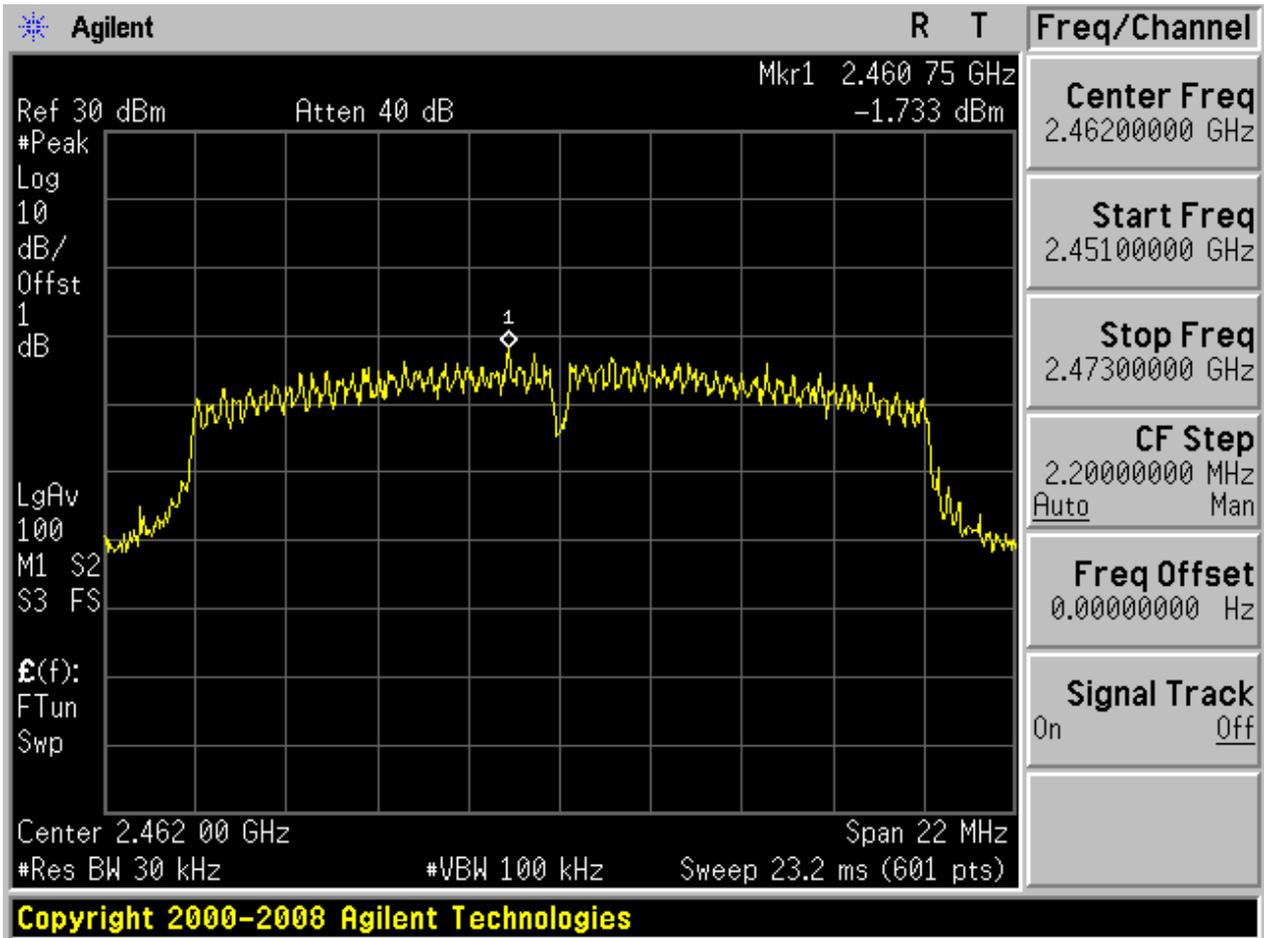




2.17 11N20_H@Ant 1

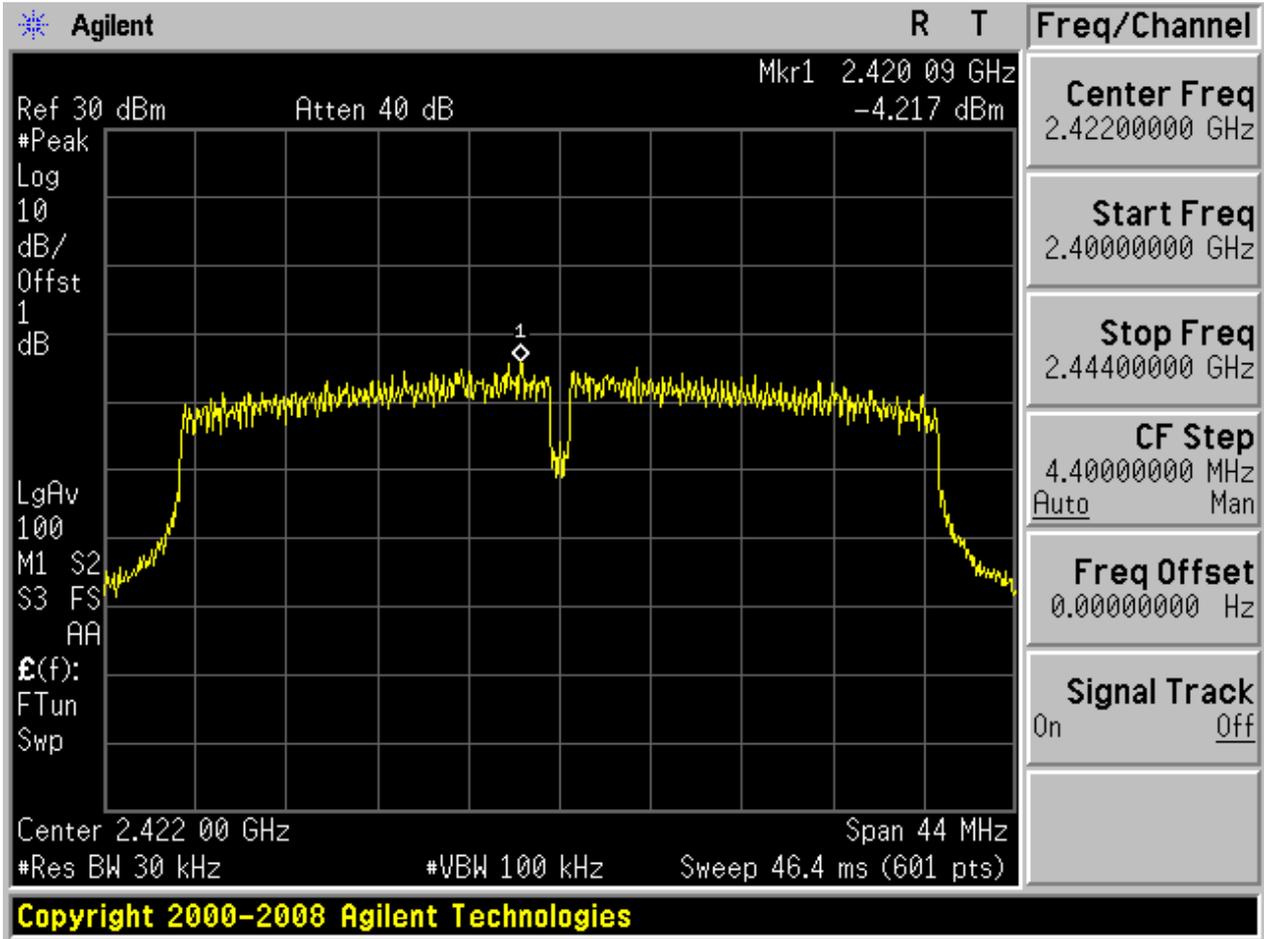


2.18 11N20_H@Ant 2



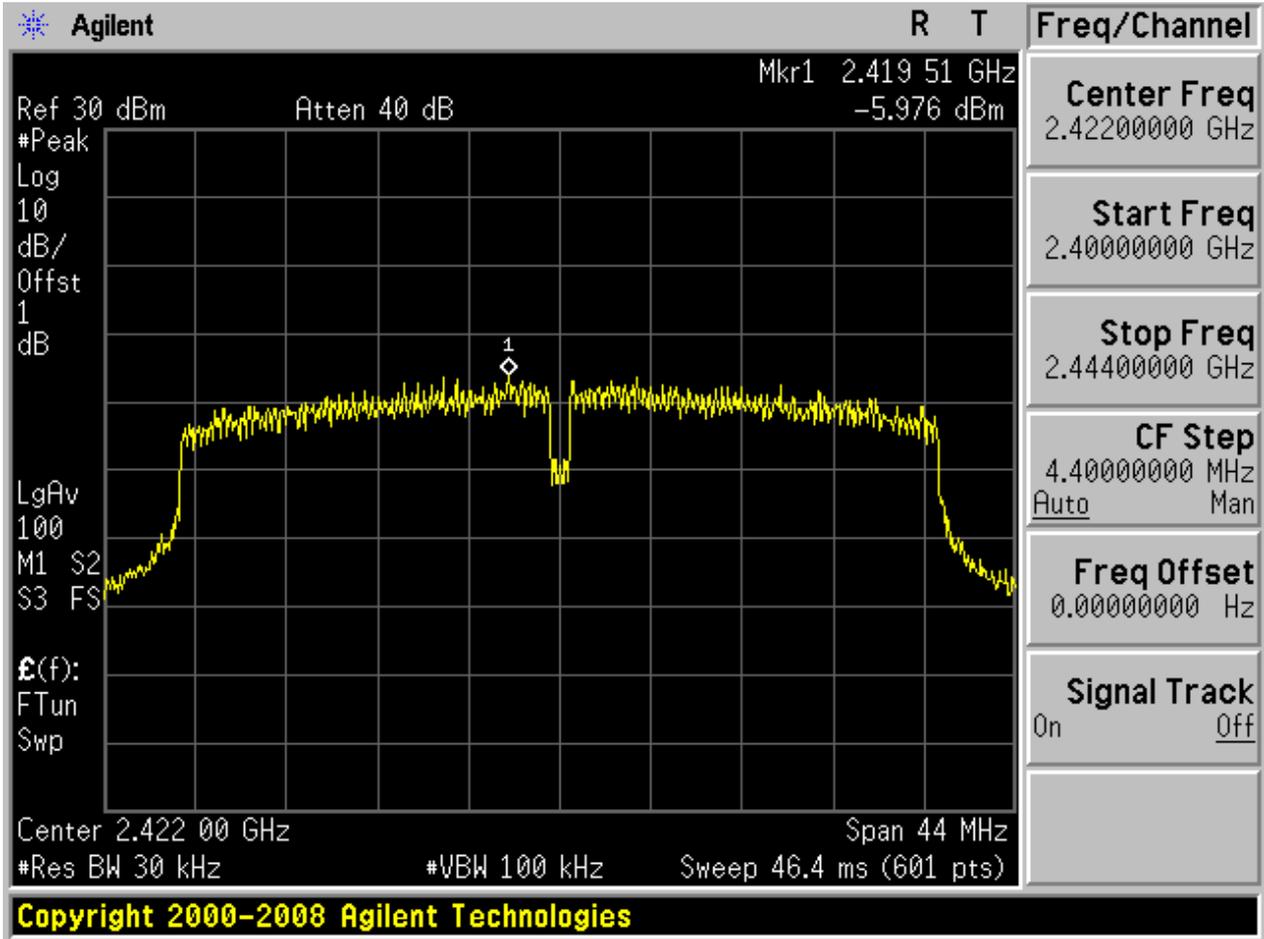


2.19 11N40_L@Ant 1



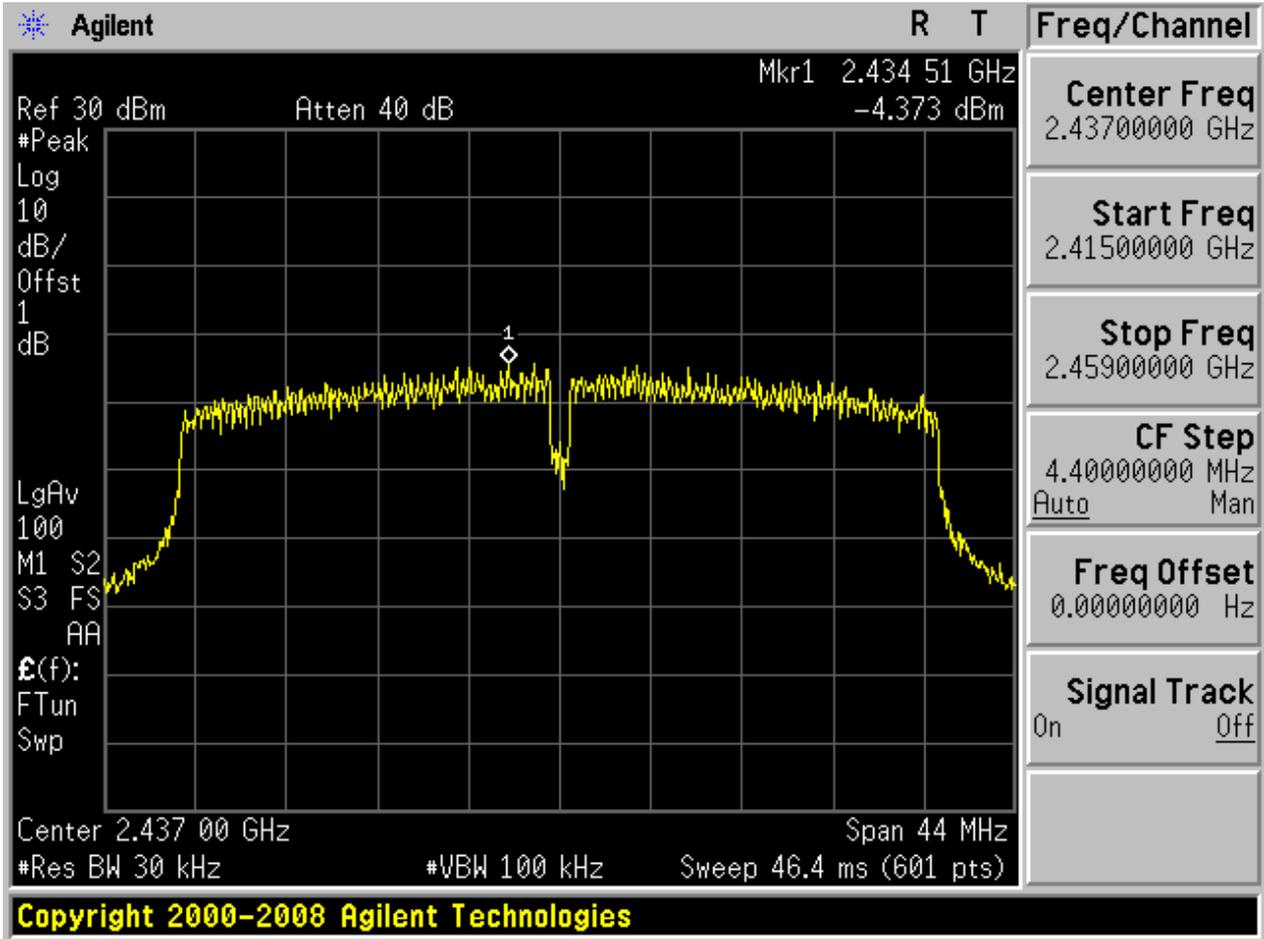


2.20 11N40_L@Ant 2



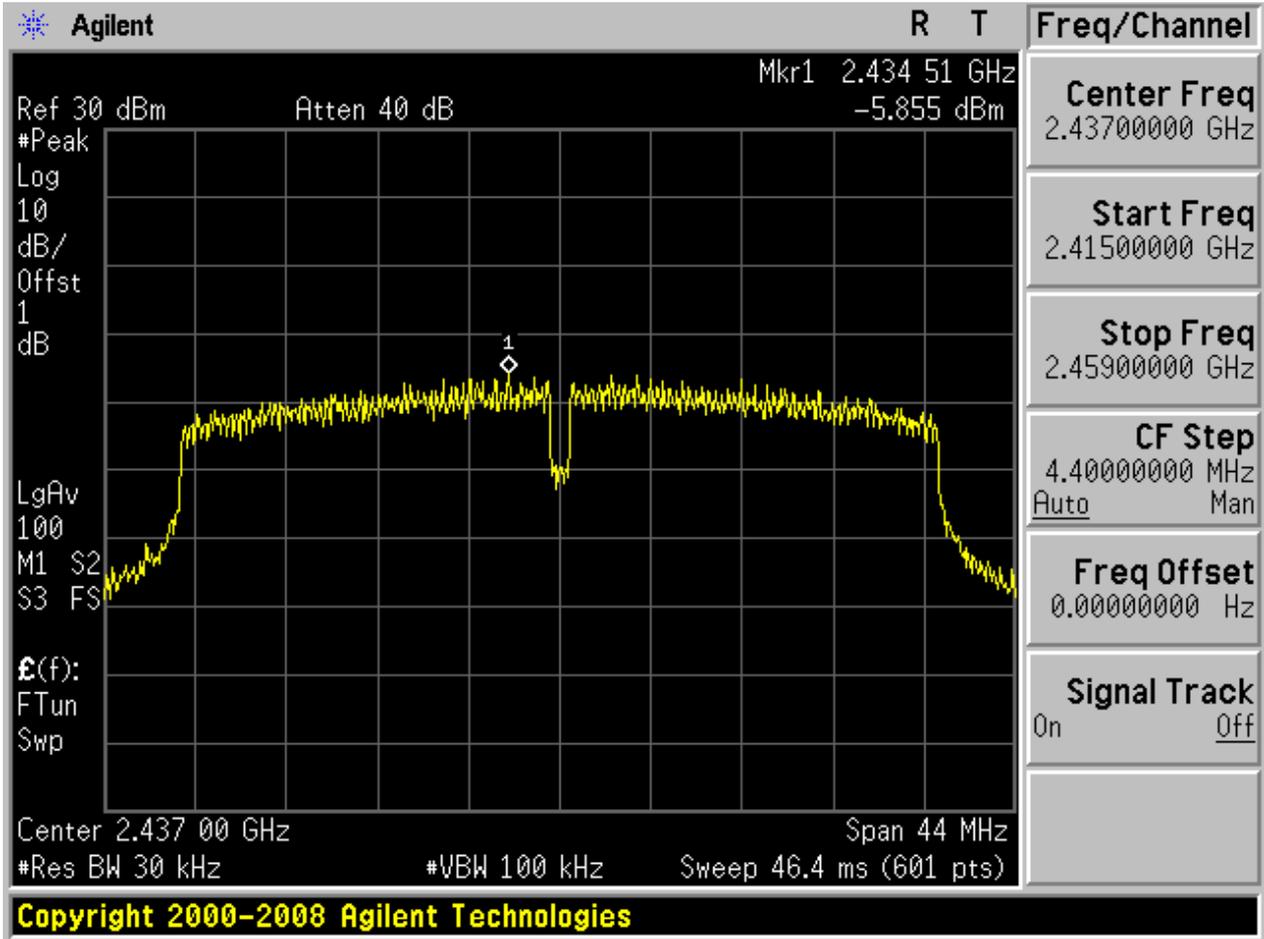


2.21 11N40_M@Ant 1



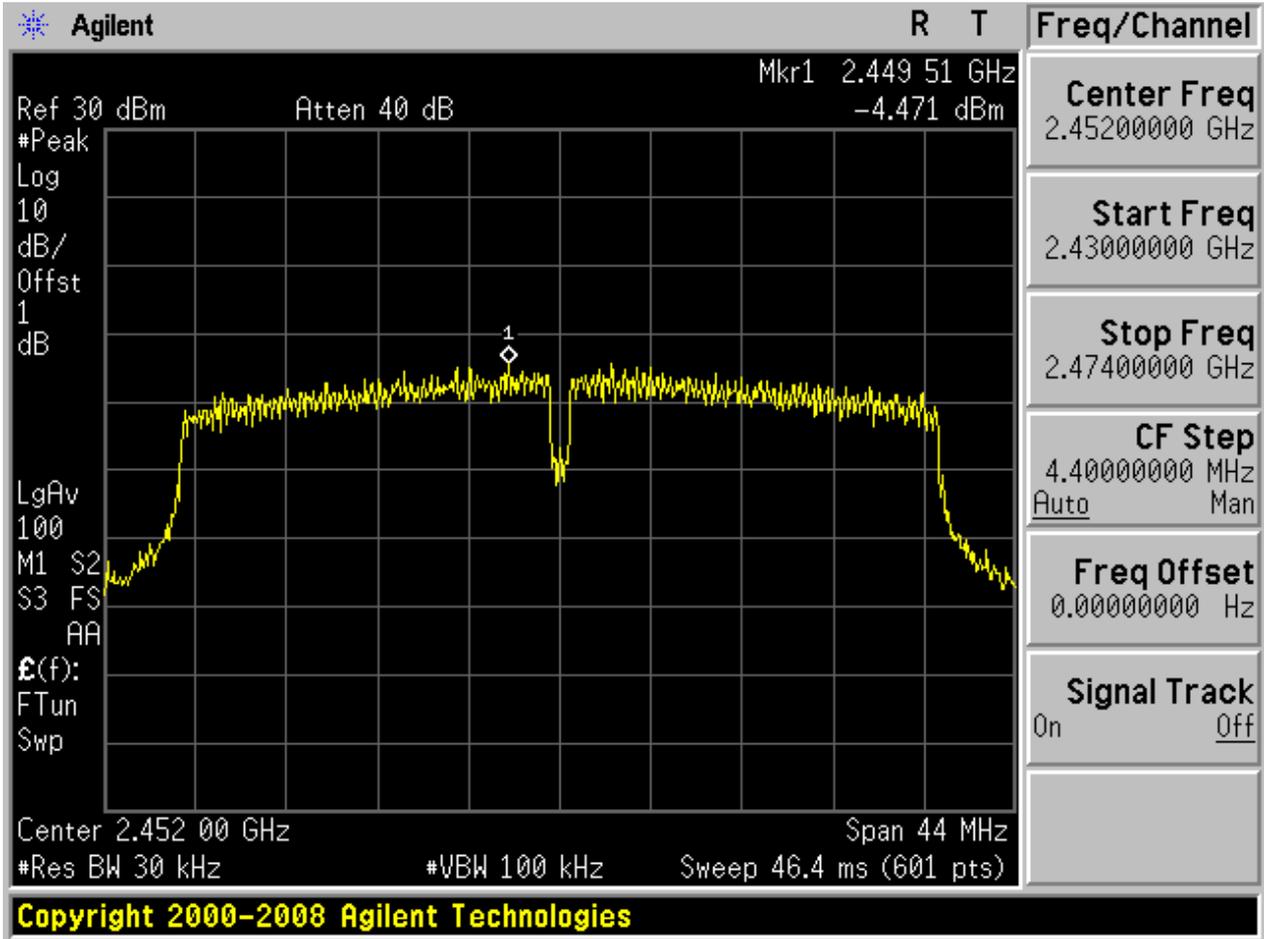


2.22 11N40_M@Ant 2



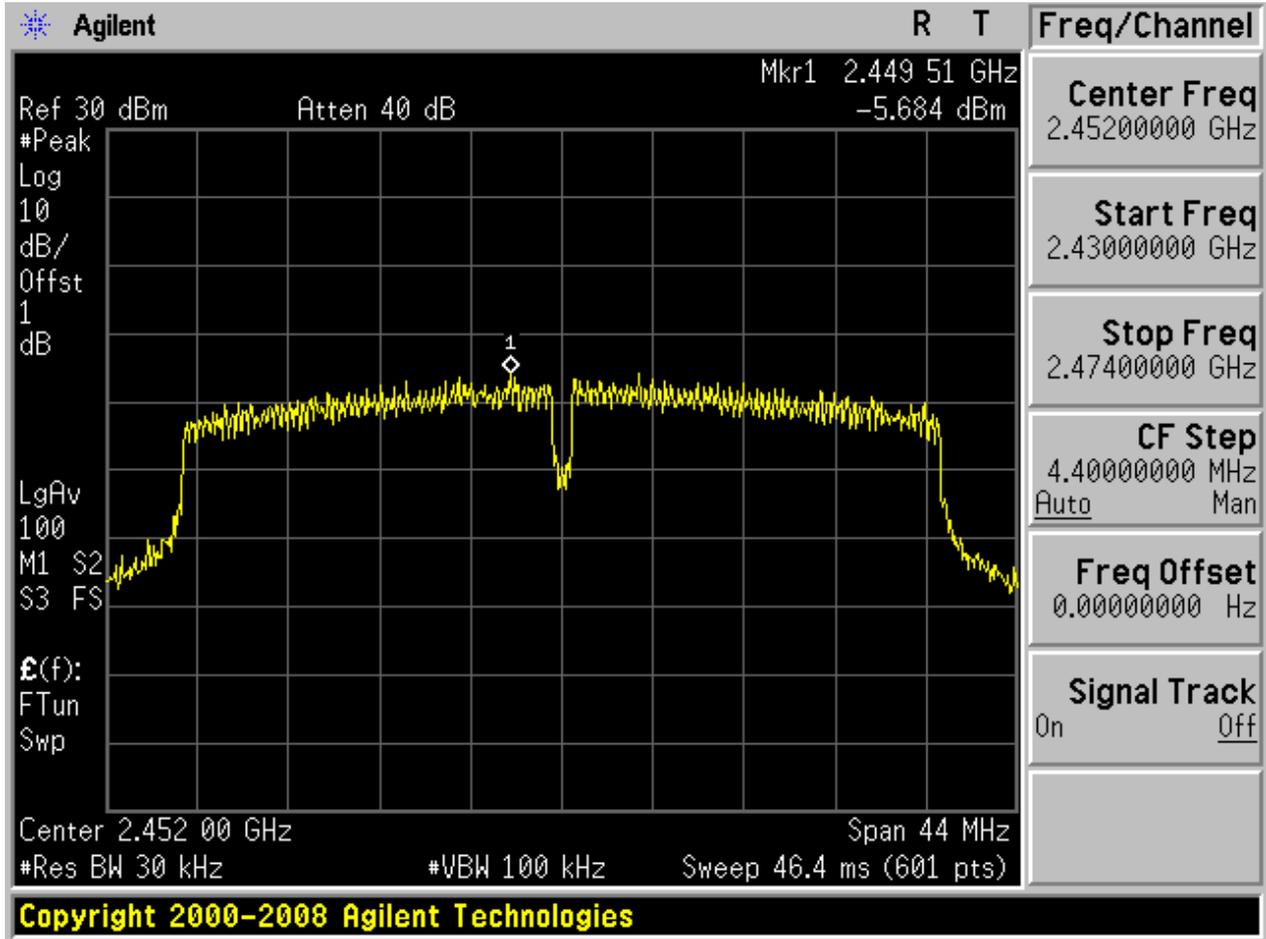


2.23 11N40_H@Ant 1





2.24 11N40_H@Ant 2



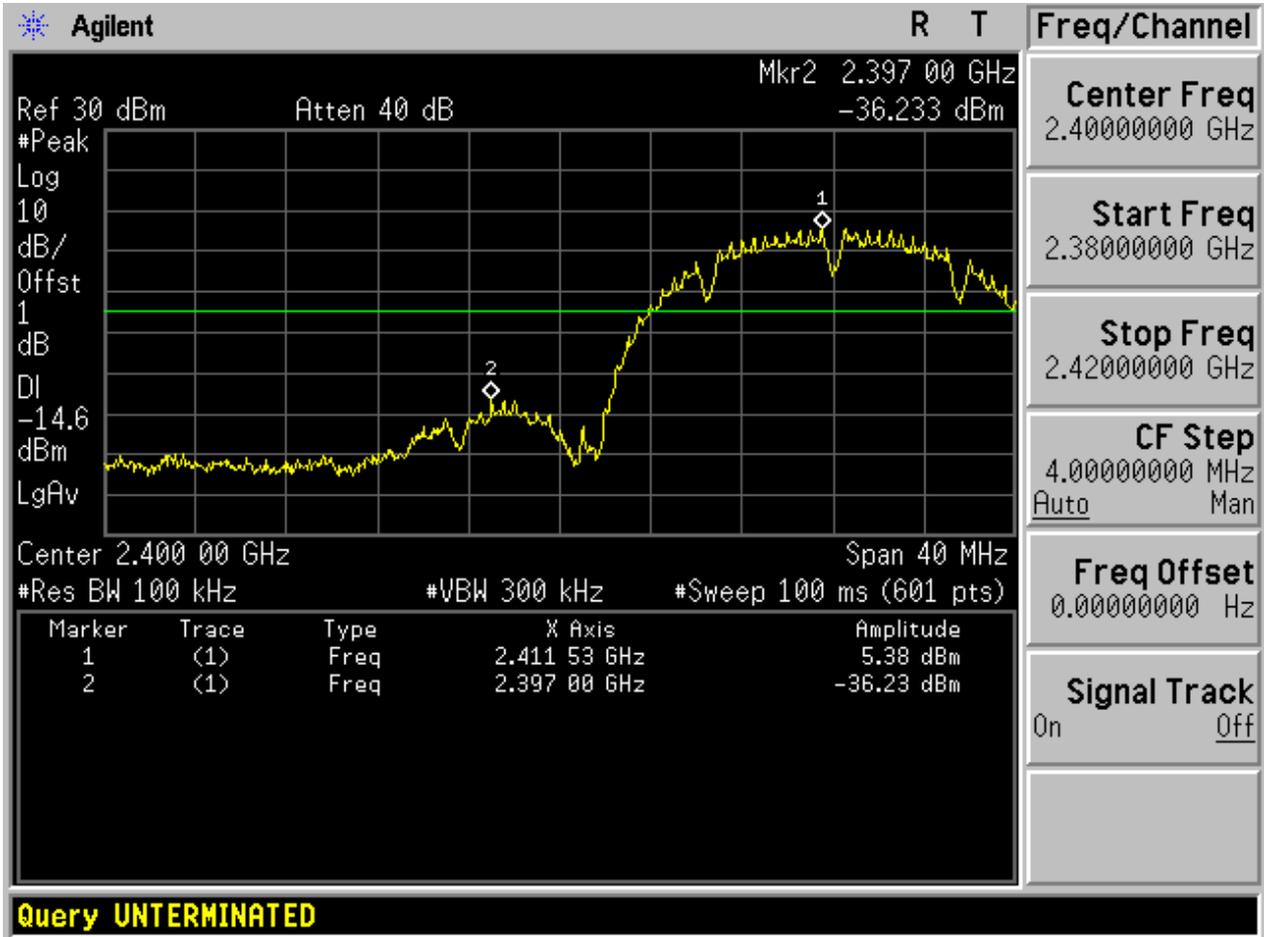
Appendix D: Band Edges Compliance

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
11B	L	2412	Ant 1	5.38	-36.23	pass
11B	L	2412	Ant 2	6.17	-41.77	pass
11B	H	2462	Ant 1	7.25	-35.42	pass
11B	H	2462	Ant 2	6.55	-37.47	pass
11G	L	2412	Ant 1	3.47	-37.76	pass
11G	L	2412	Ant 2	1.71	-36.43	pass
11G	H	2462	Ant 1	3.50	-43.37	pass
11G	H	2462	Ant 2	2.30	-24.72	pass
11N20	L	2412	Ant 1	1.73	-46.64	pass
11N20	L	2412	Ant 2	.18	-34.52	pass
11N20	H	2462	Ant 1	2.26	-29.05	pass
11N20	H	2462	Ant 2	1.11	-33.19	pass
11N40	L	2422	Ant 1	.29	-29.02	pass
11N40	L	2422	Ant 2	-1.94	-28.27	pass
11N40	H	2452	Ant 1	.30	-30.60	pass
11N40	H	2452	Ant 2	-1.25	-30.94	pass

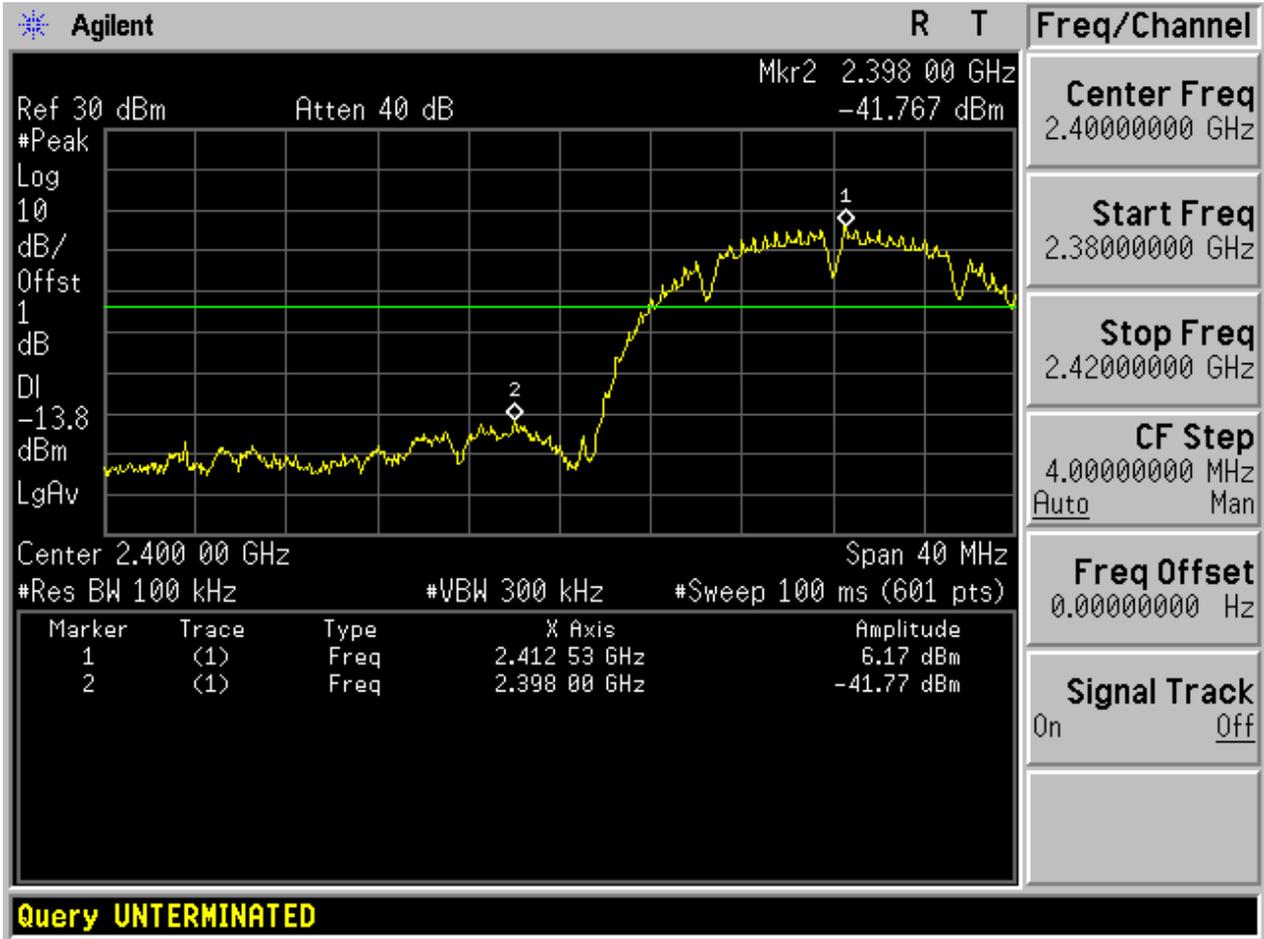
Part II - Test Plots

2.1 11B_L@Ant 1



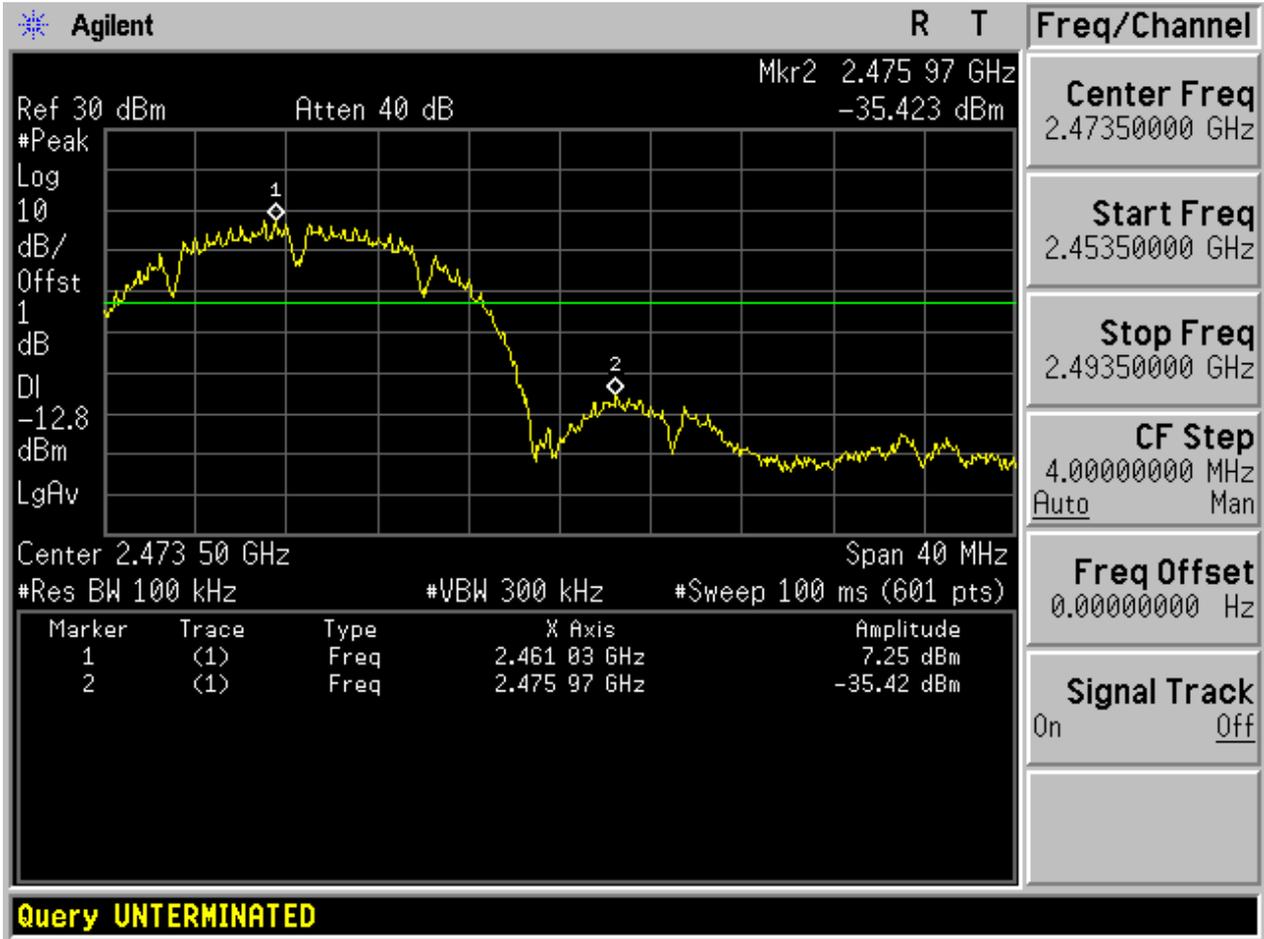


2.2 11B_L@Ant 2



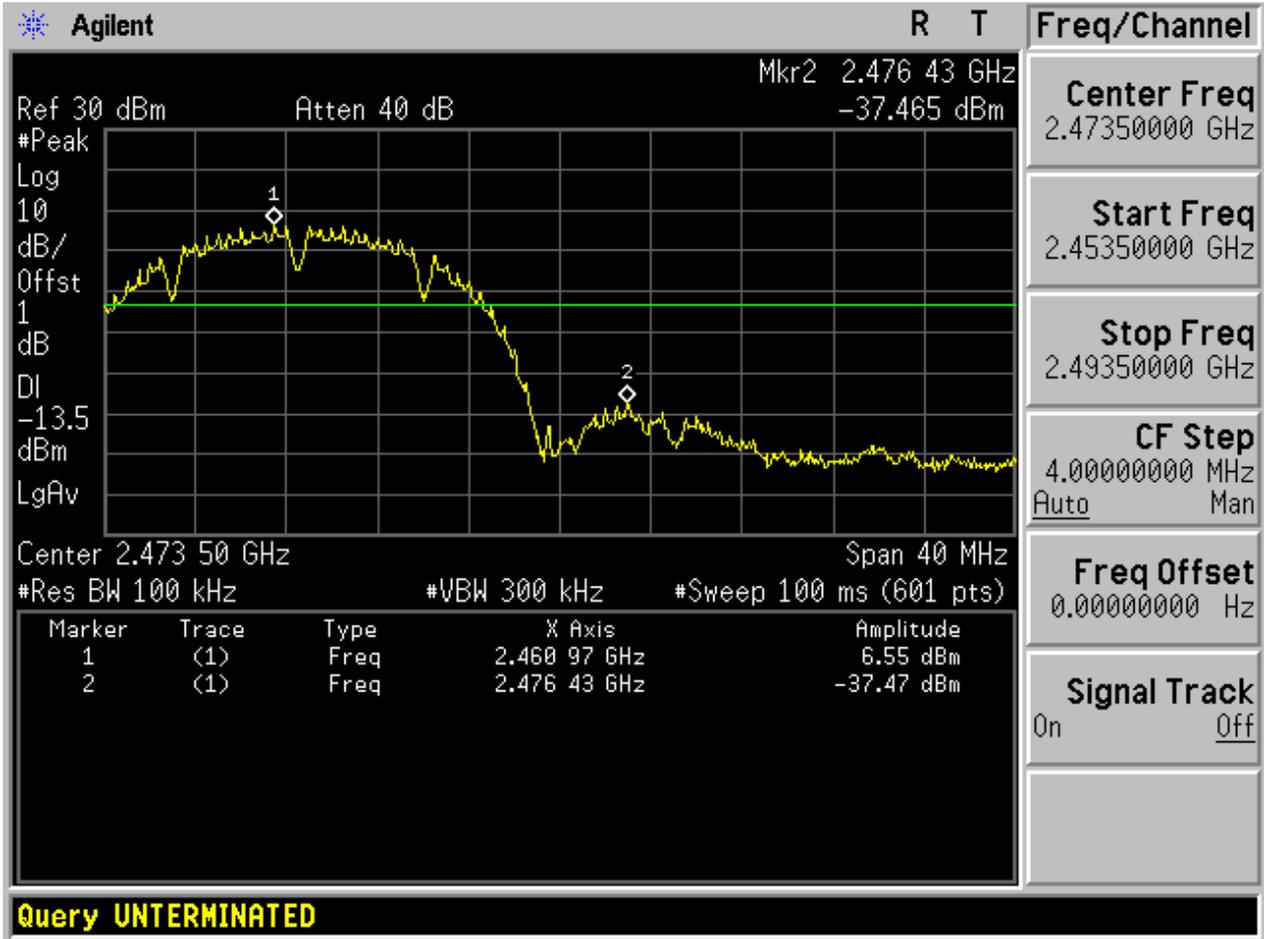


2.3 11B_H@Ant 1



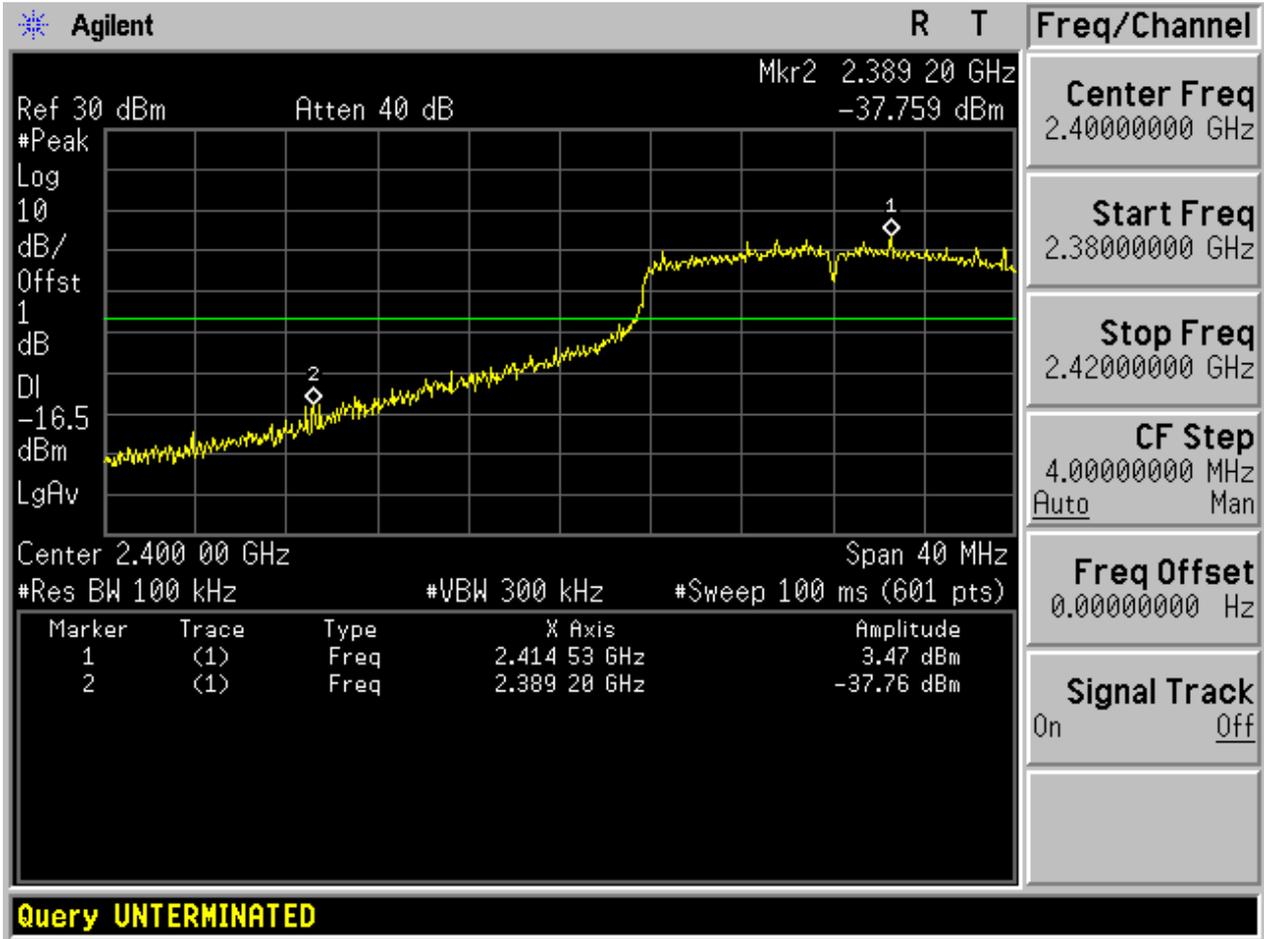


2.4 11B_H@Ant 2

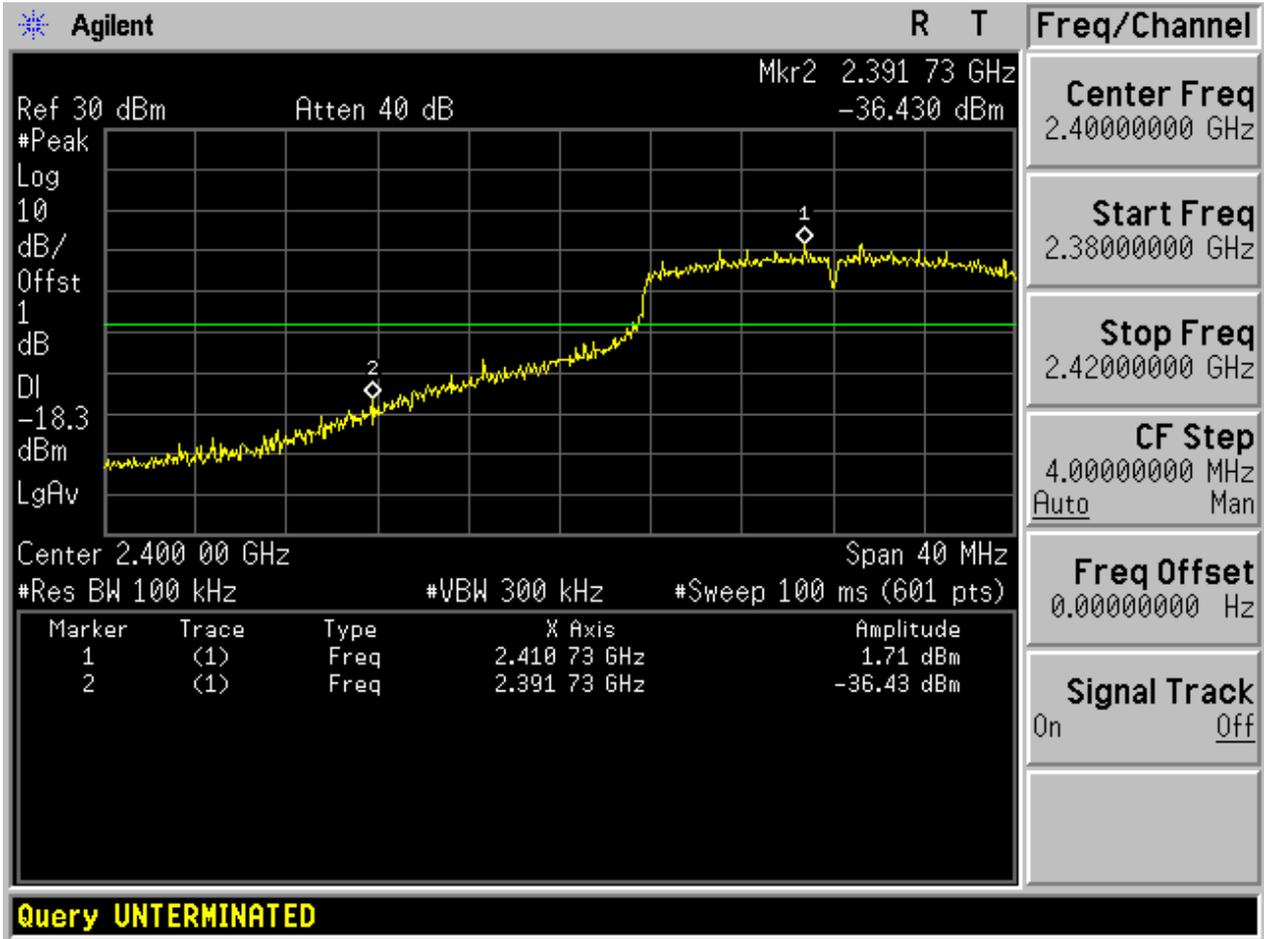




2.5 11G_L@Ant 1

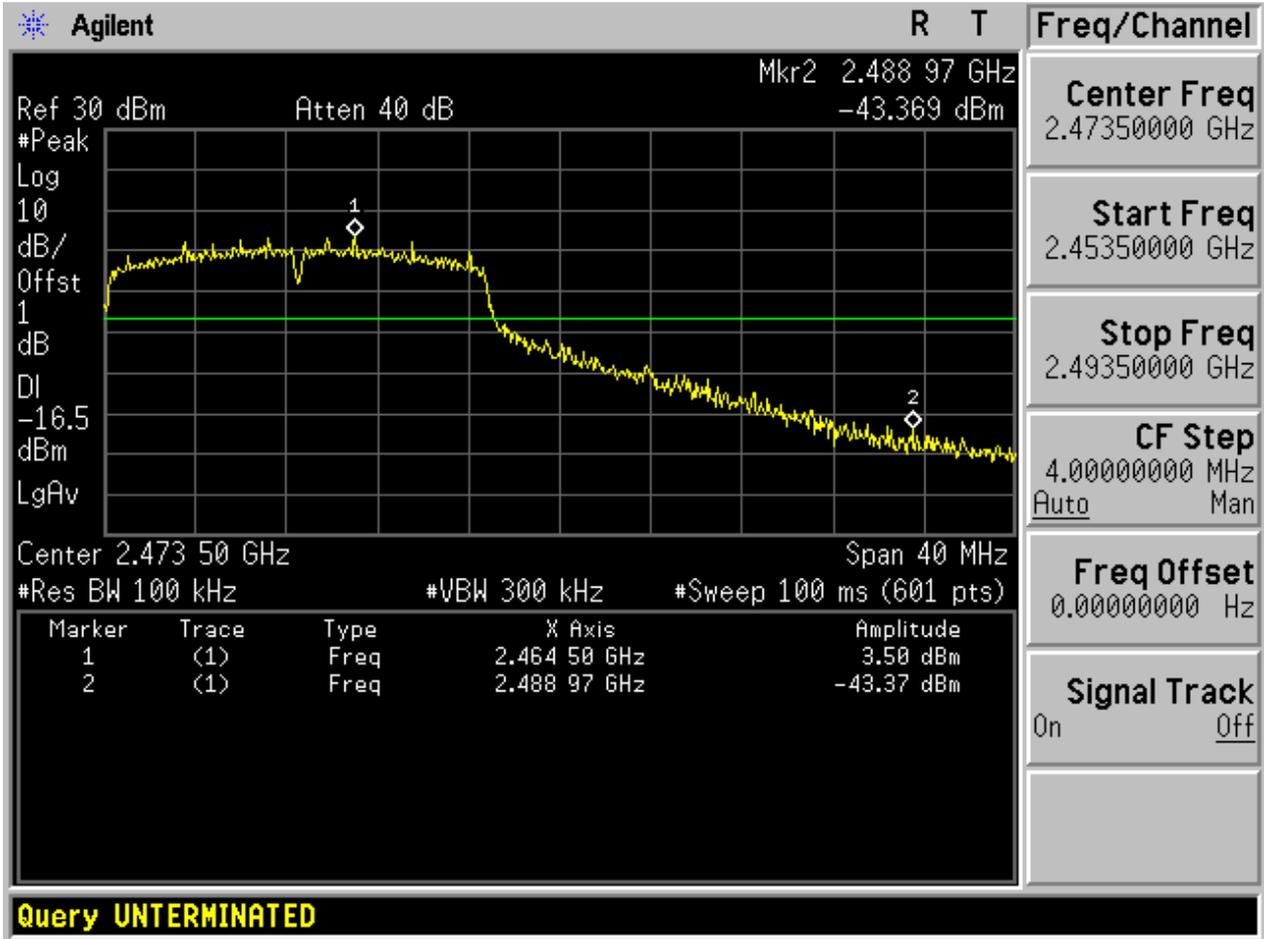


2.6 11G_L@Ant 2



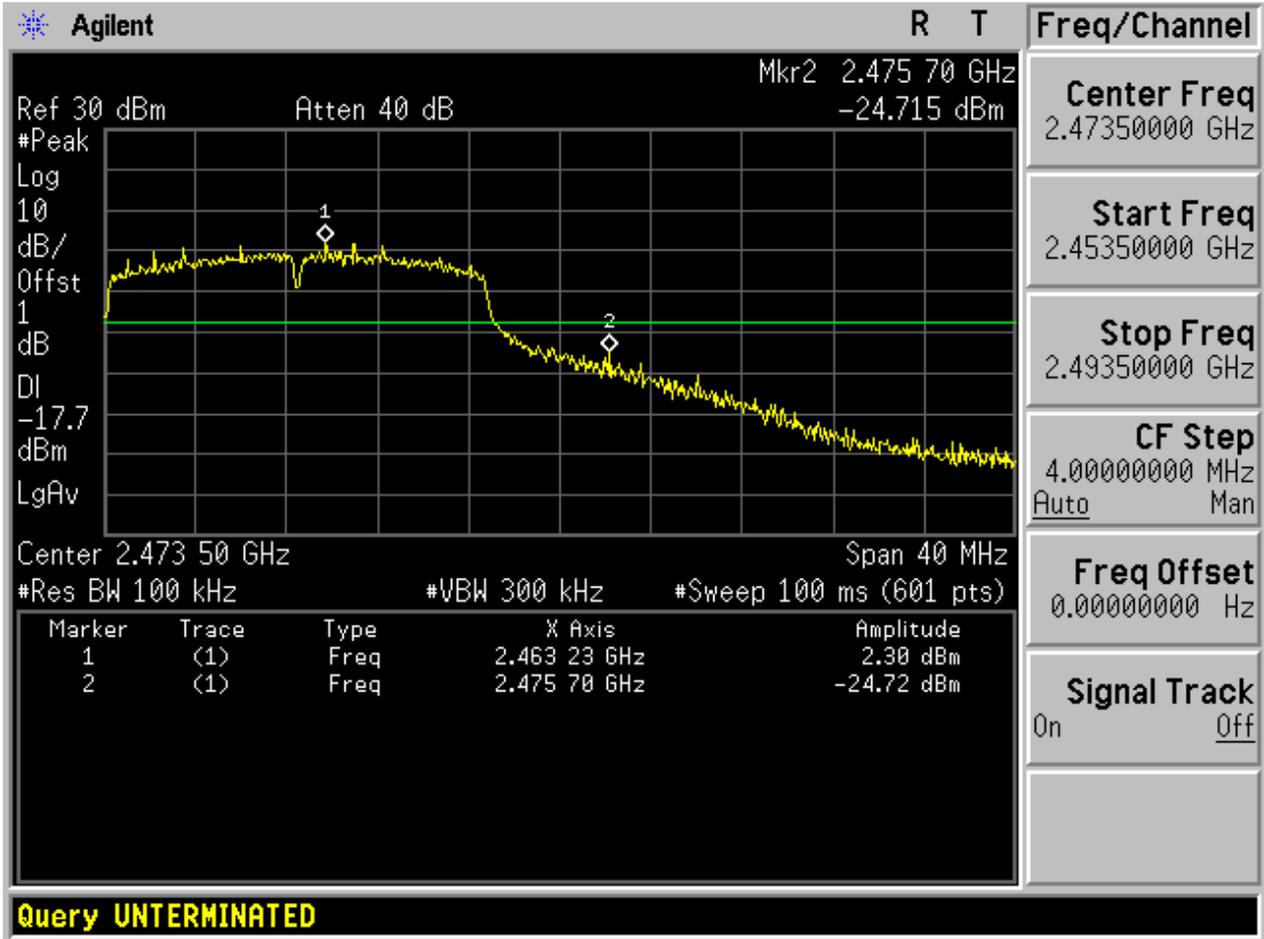


2.7 11G_H@Ant 1



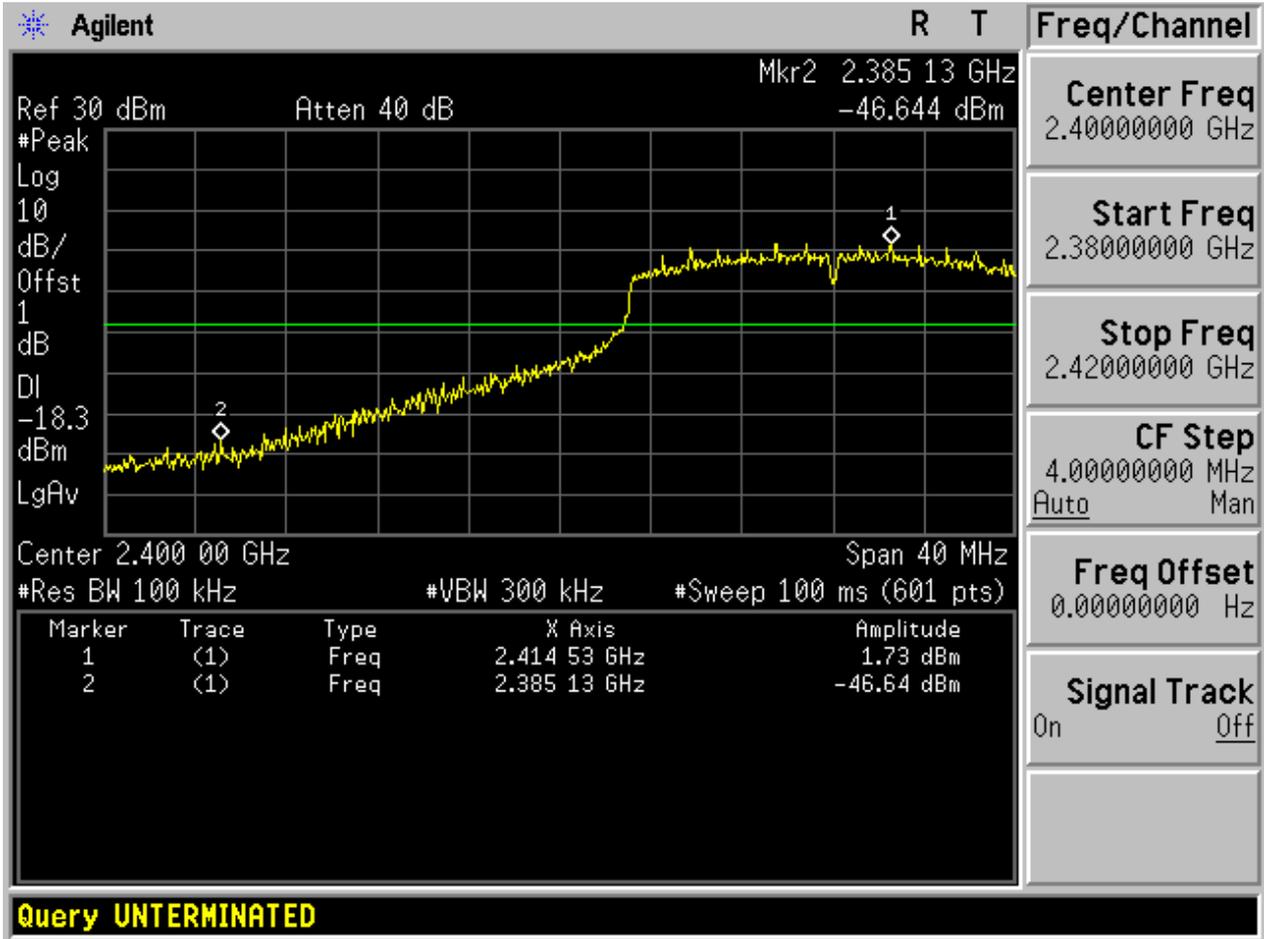


2.8 11G_H@Ant 2



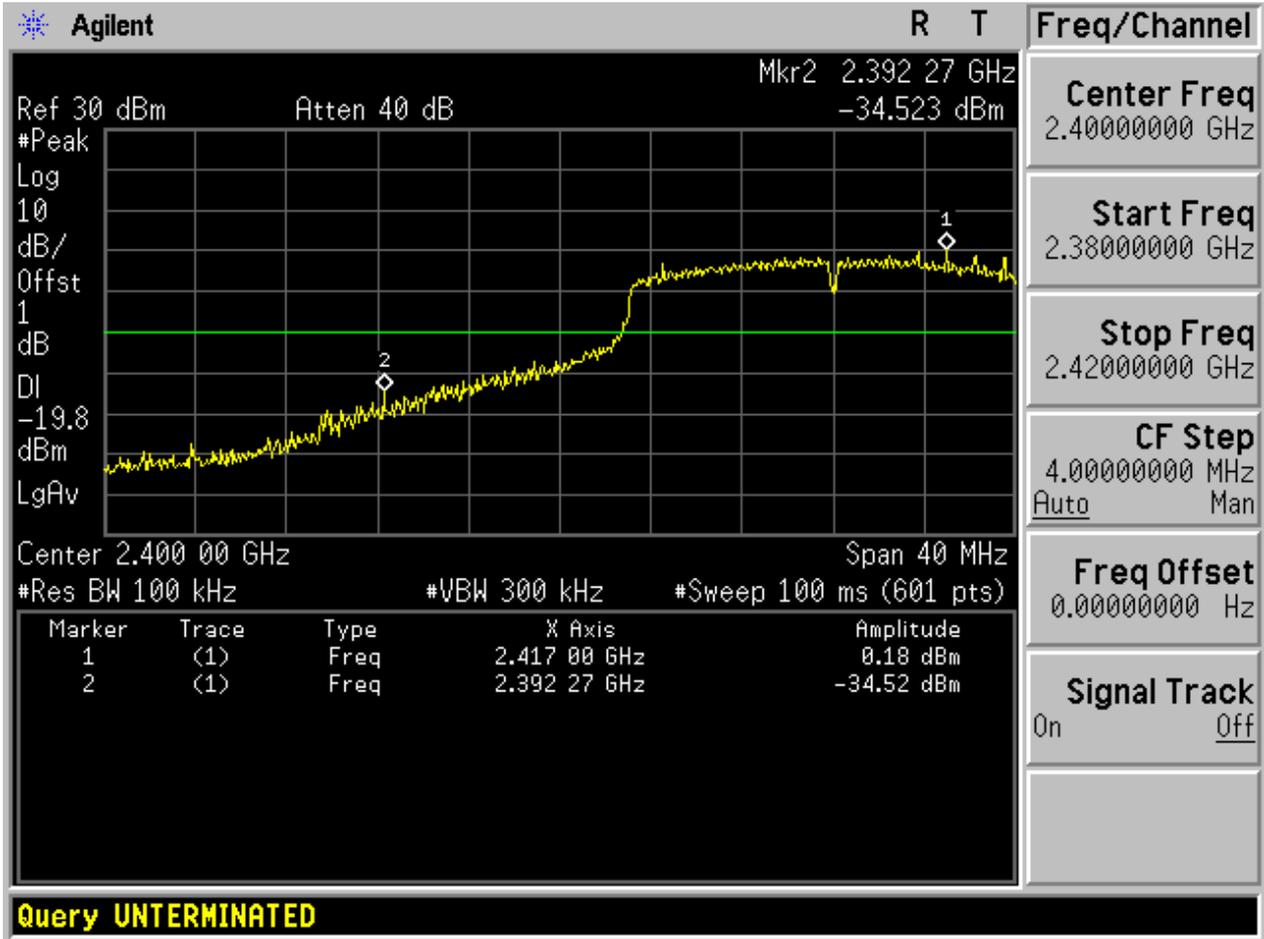


2.9 11N20_L@Ant 1



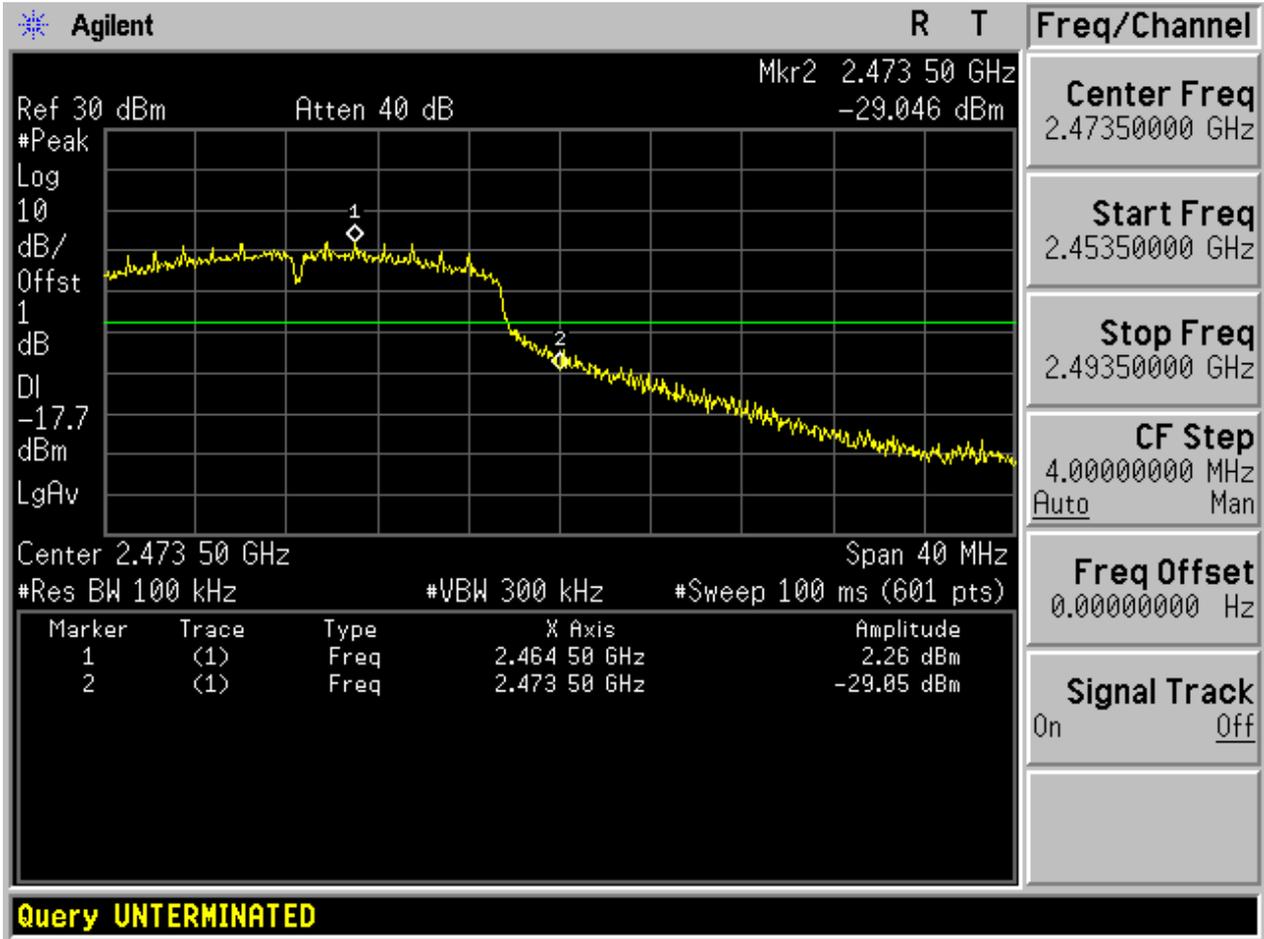


2.10 11N20_L@Ant 2



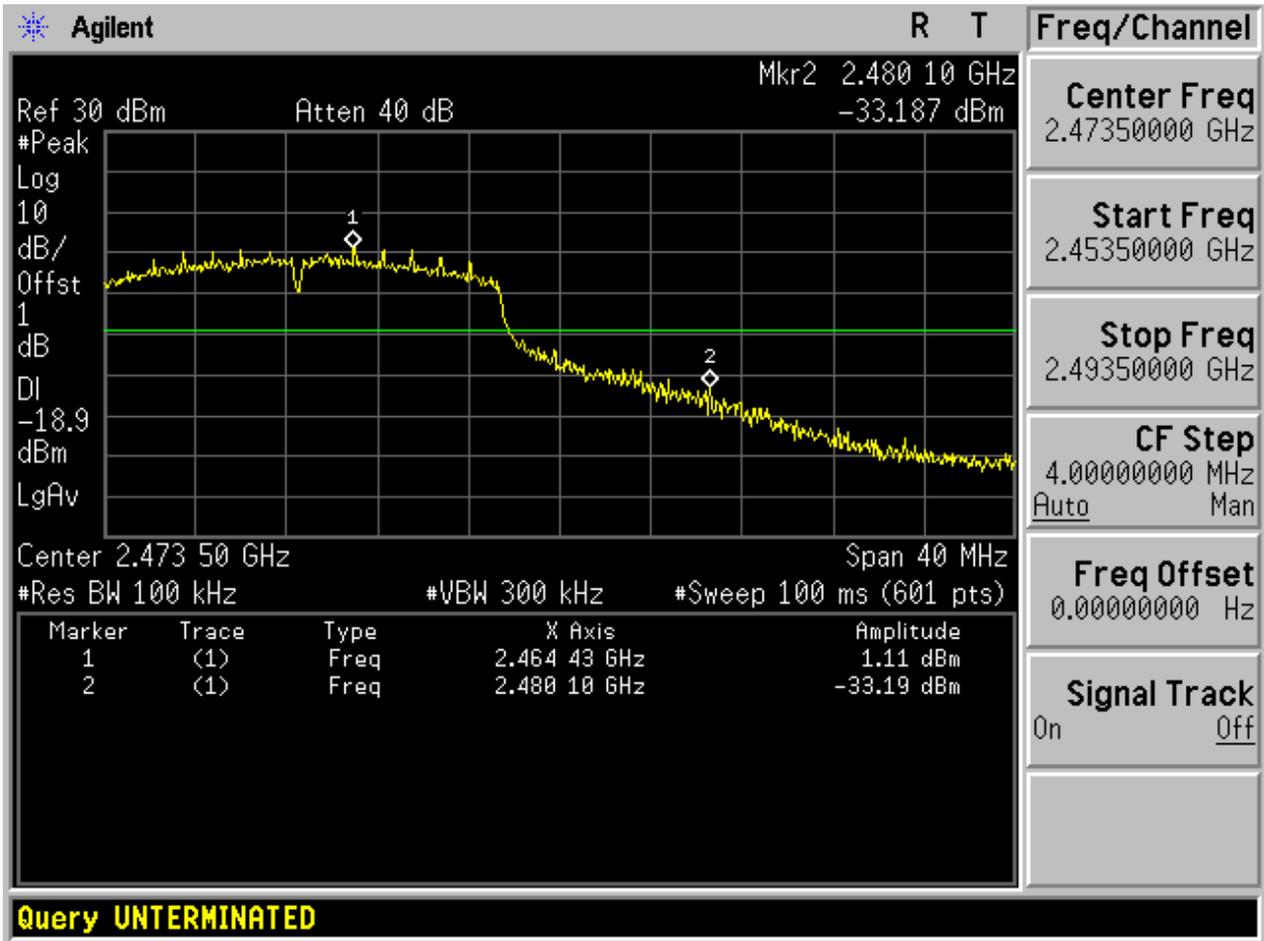


2.11 11N20_H@Ant 1



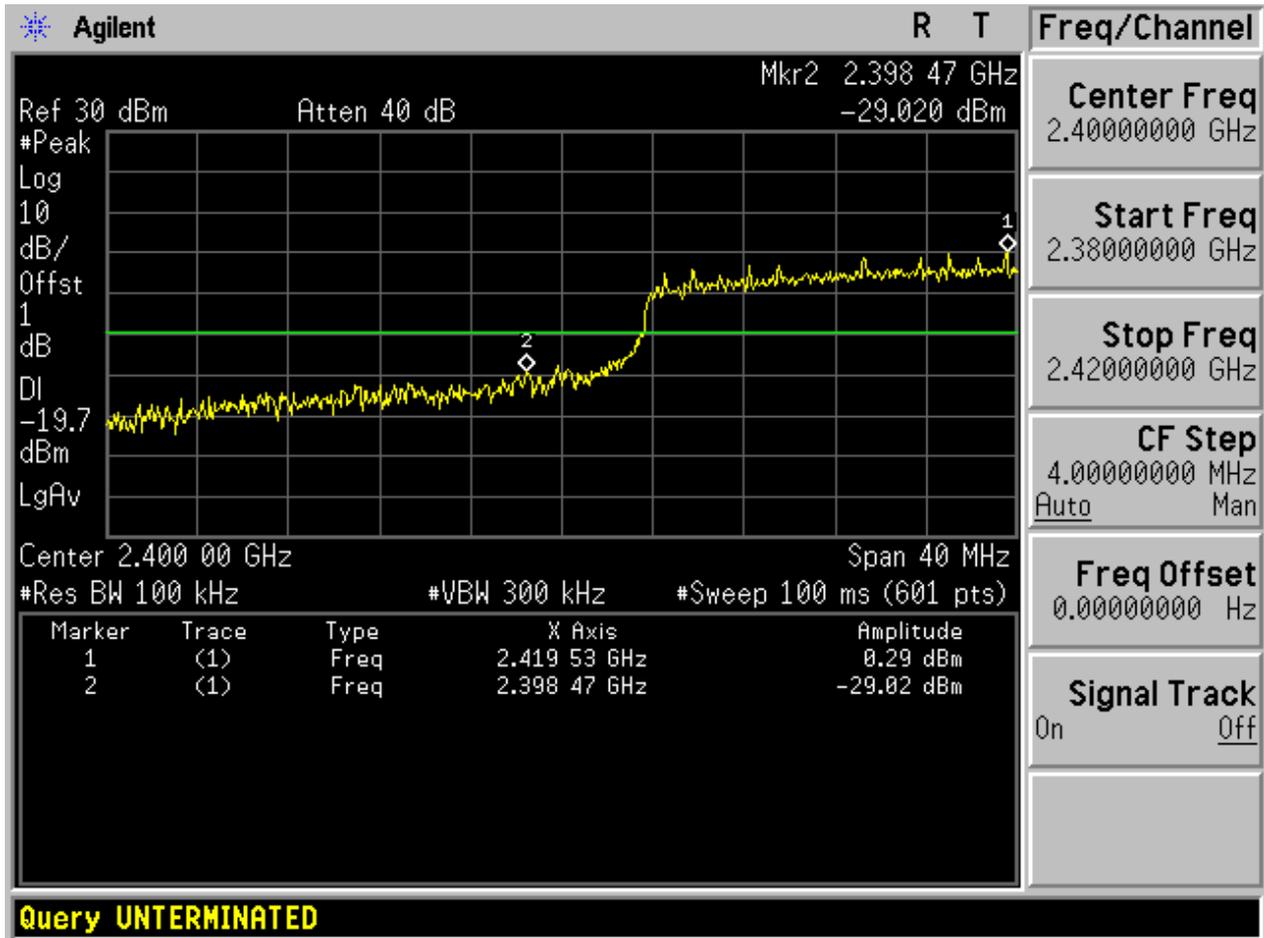


2.12 11N20_H@Ant 2



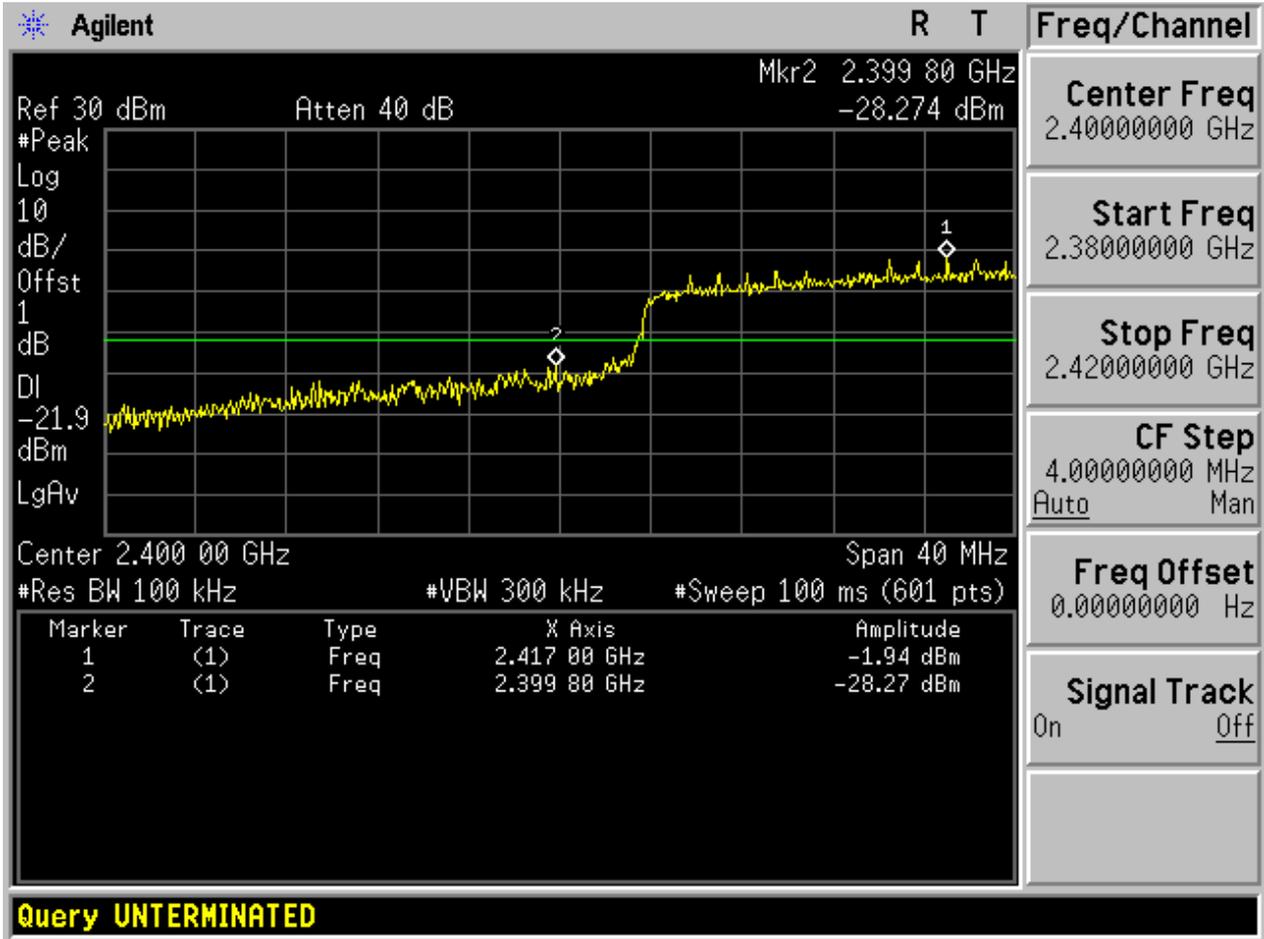


2.13 11N40_L@Ant 1

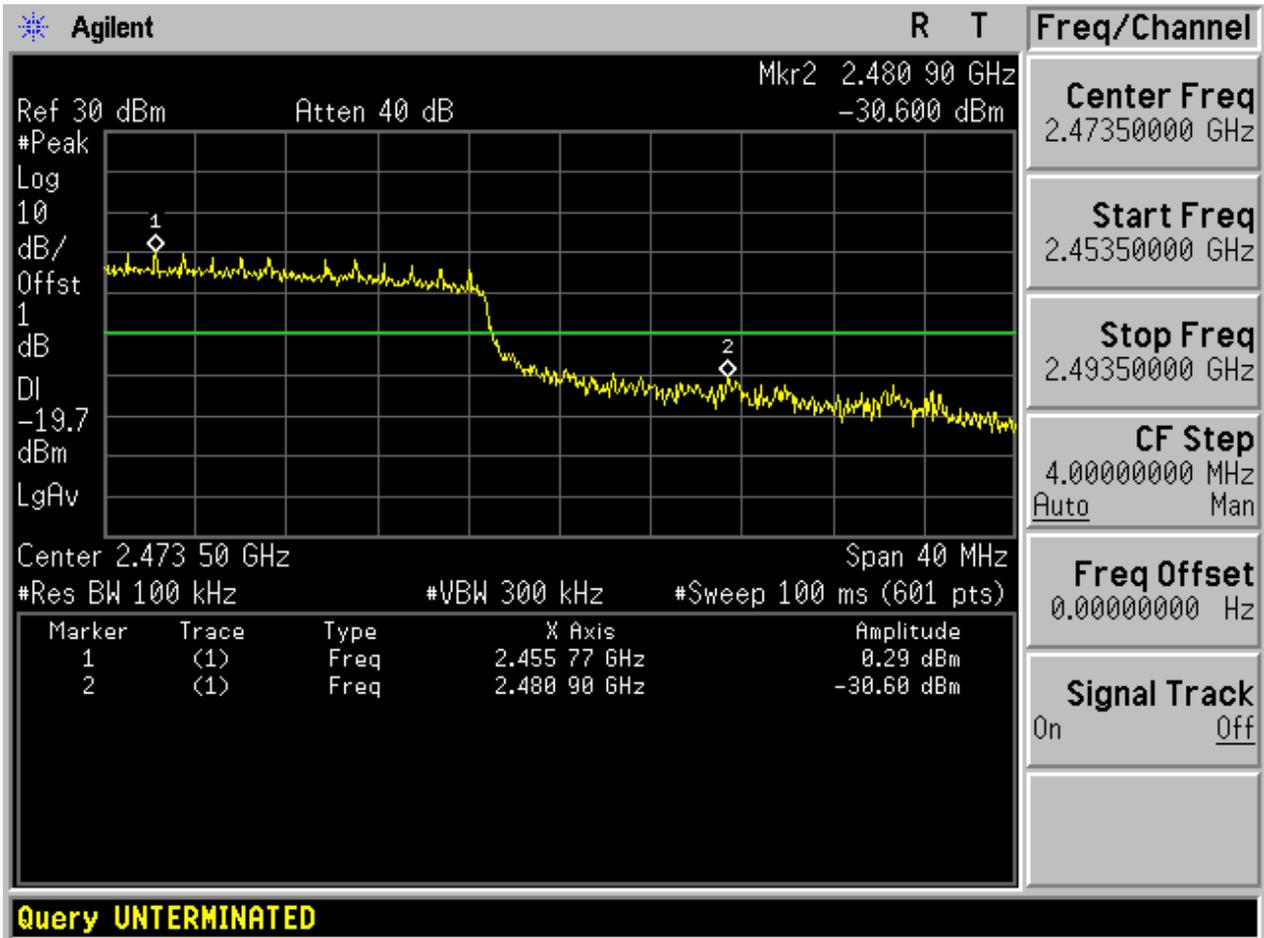




2.14 11N40_L@Ant 2

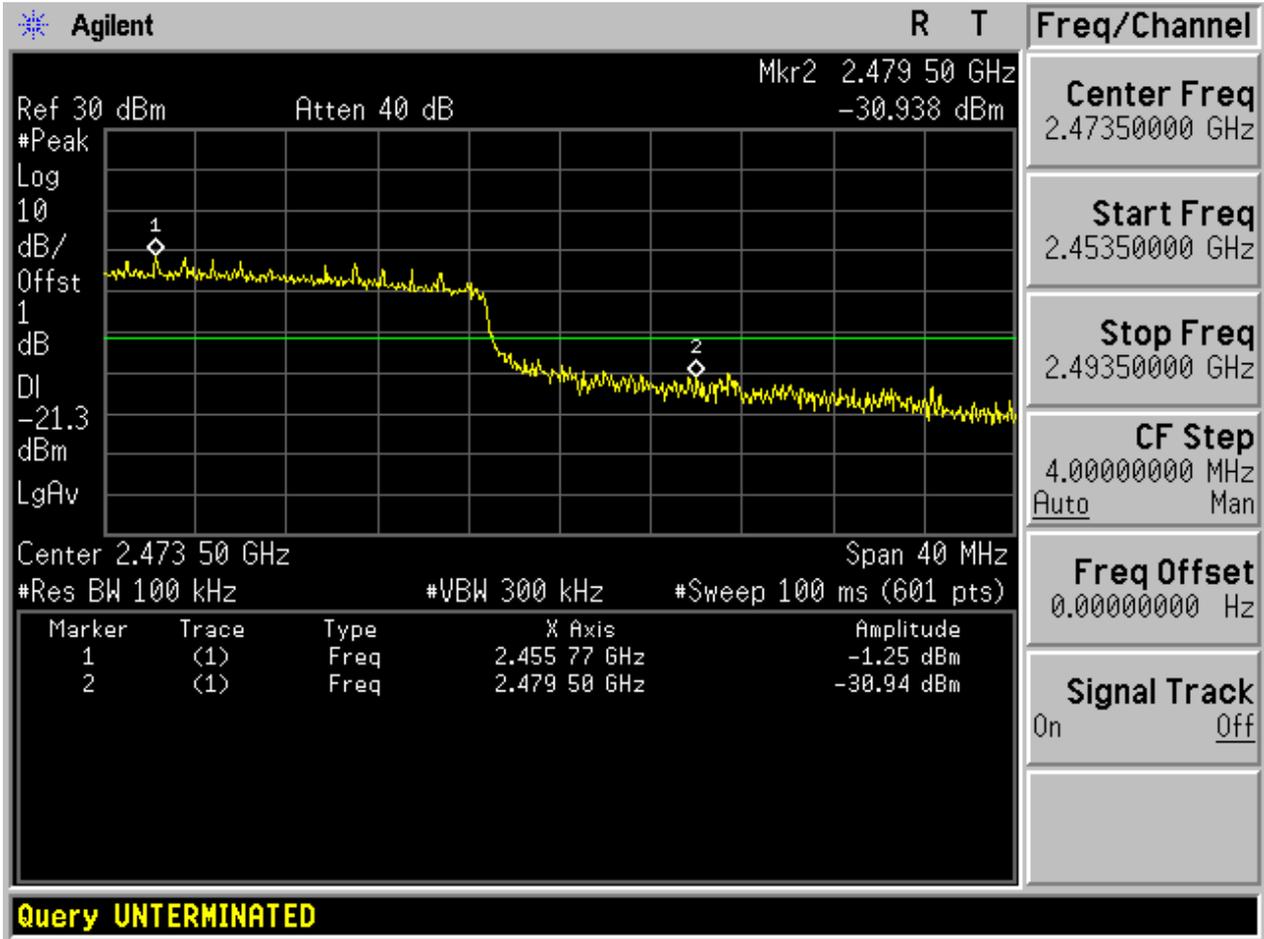


2.15 11N40_H@Ant 1





2.16 11N40_H@Ant 2



Appendix E: Unwanted Emissions into Non-Restricted Frequency

Bands

In this Appendix, 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 Appendix, 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[dBm], see test plots for detailed".

Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2412	Ant 1	6.24	<limit	pass
11B	L	2412	Ant 2	6.17	<limit	pass
11B	M	2437	Ant 1	7.22	<limit	pass
11B	M	2437	Ant 2	6.89	<limit	pass
11B	H	2462	Ant 1	7.54	<limit	pass
11B	H	2462	Ant 2	6.94	<limit	pass
11G	L	2412	Ant 1	4.14	<limit	pass
11G	L	2412	Ant 2	2.39	<limit	pass
11G	M	2437	Ant 1	4.35	<limit	pass
11G	M	2437	Ant 2	2.44	<limit	pass
11G	H	2462	Ant 1	4.46	<limit	pass
11G	H	2462	Ant 2	3.14	<limit	pass
11N20	L	2412	Ant 1	3.34	<limit	pass
11N20	L	2412	Ant 2	1.97	<limit	pass
11N20	M	2437	Ant 1	3.57	<limit	pass
11N20	M	2437	Ant 2	2.18	<limit	pass
11N20	H	2462	Ant 1	3.16	<limit	pass



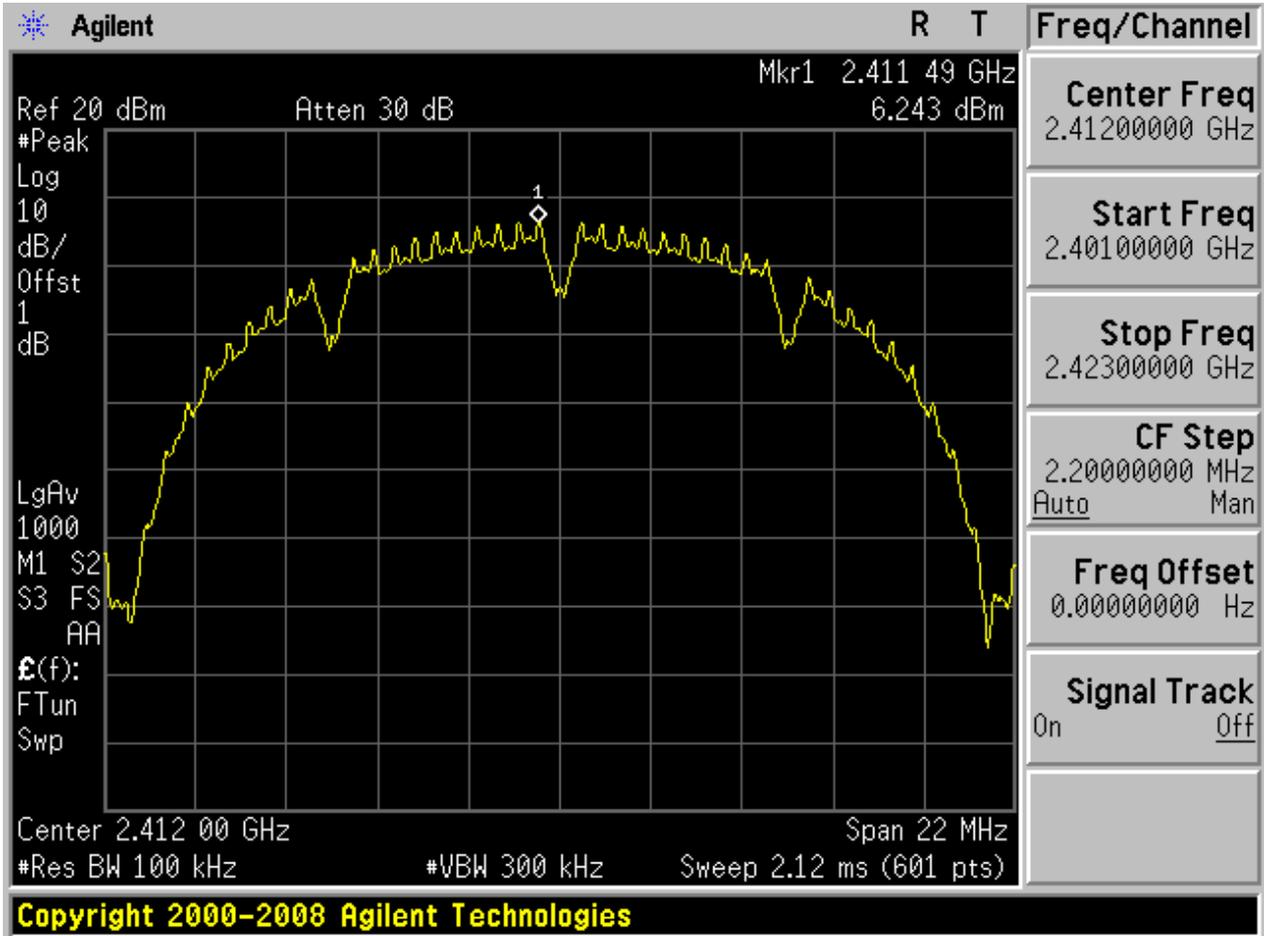
Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11N20	H	2462	Ant 2	2.70	<limit	pass
11N40	L	2422	Ant 1	.32	<limit	pass
11N40	L	2422	Ant 2	-1.30	<limit	pass
11N40	M	2437	Ant 1	.21	<limit	pass
11N40	M	2437	Ant 2	-1.15	<limit	pass
11N40	H	2452	Ant 1	.65	<limit	pass
11N40	H	2452	Ant 2	-.91	<limit	pass



Part II - Test Plots

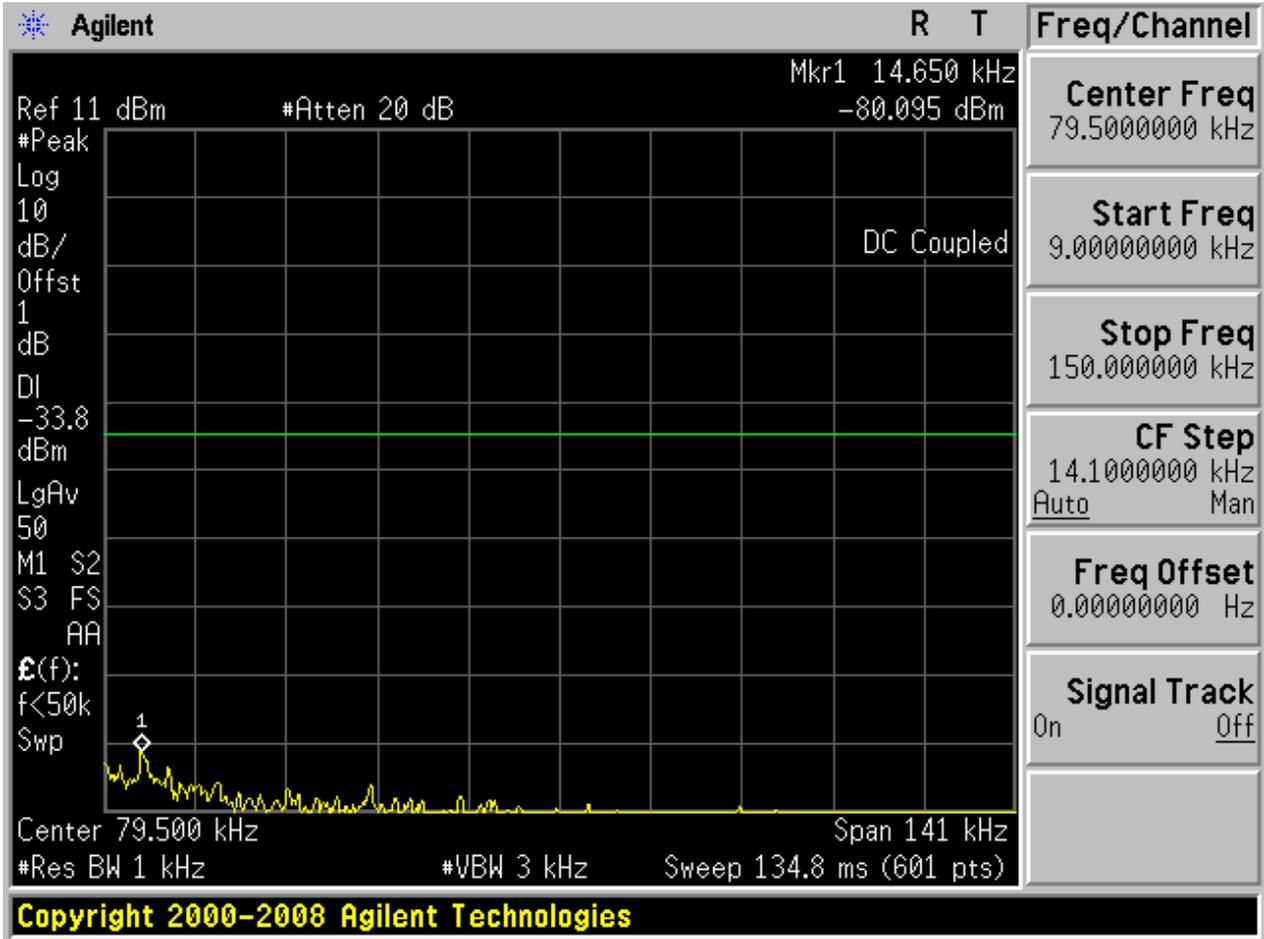
2.1 11B_L@Ant 1

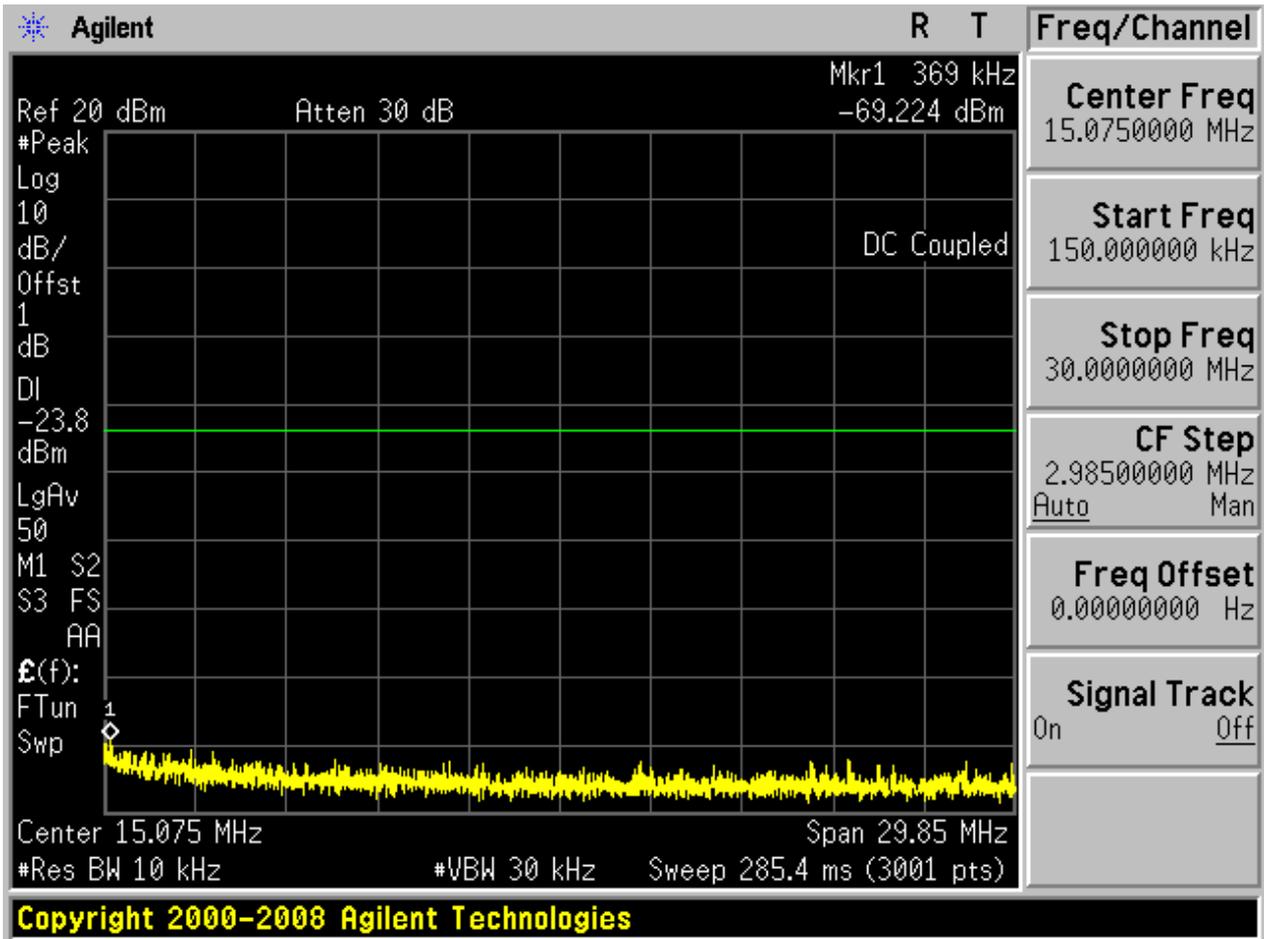
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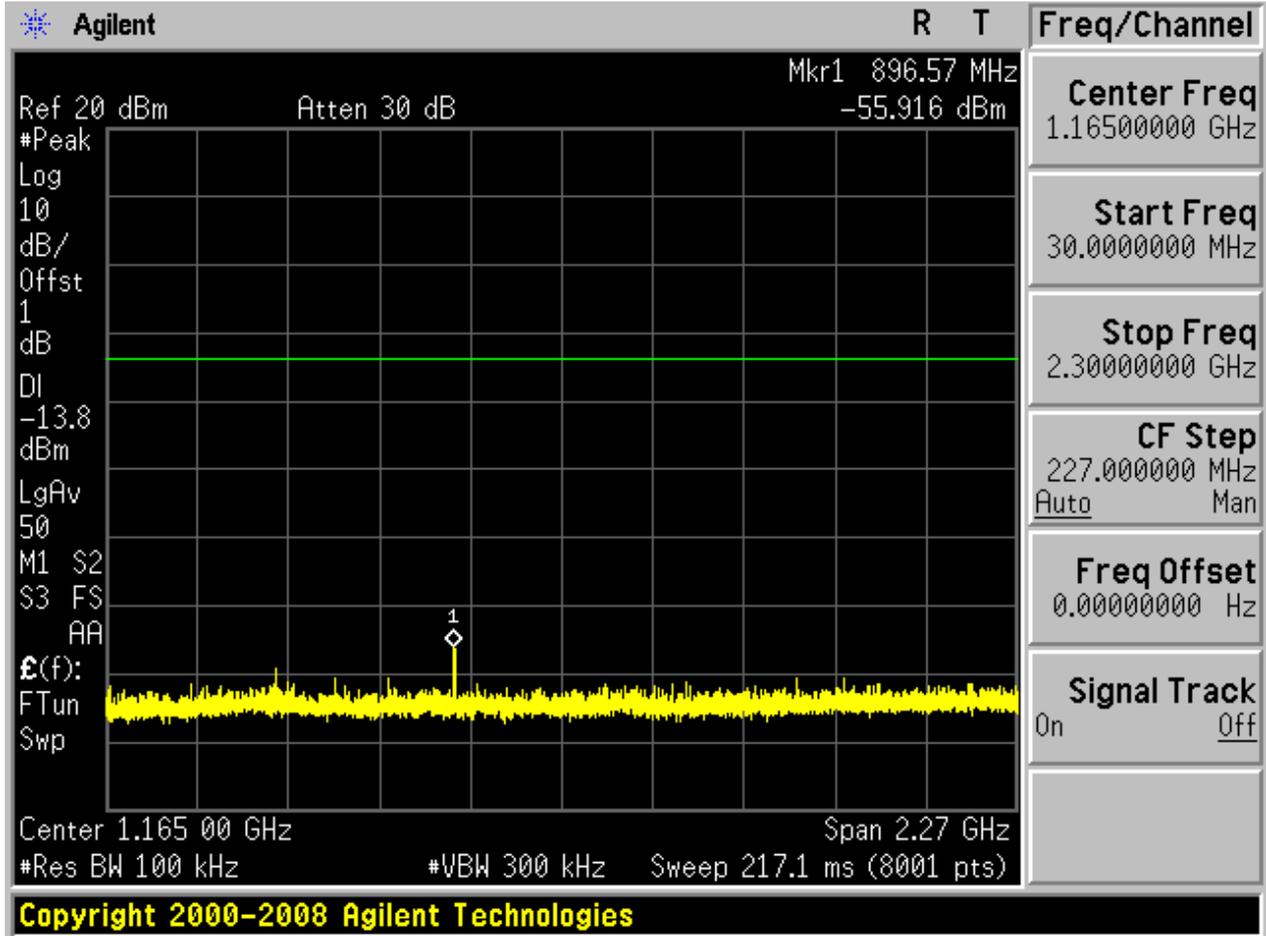


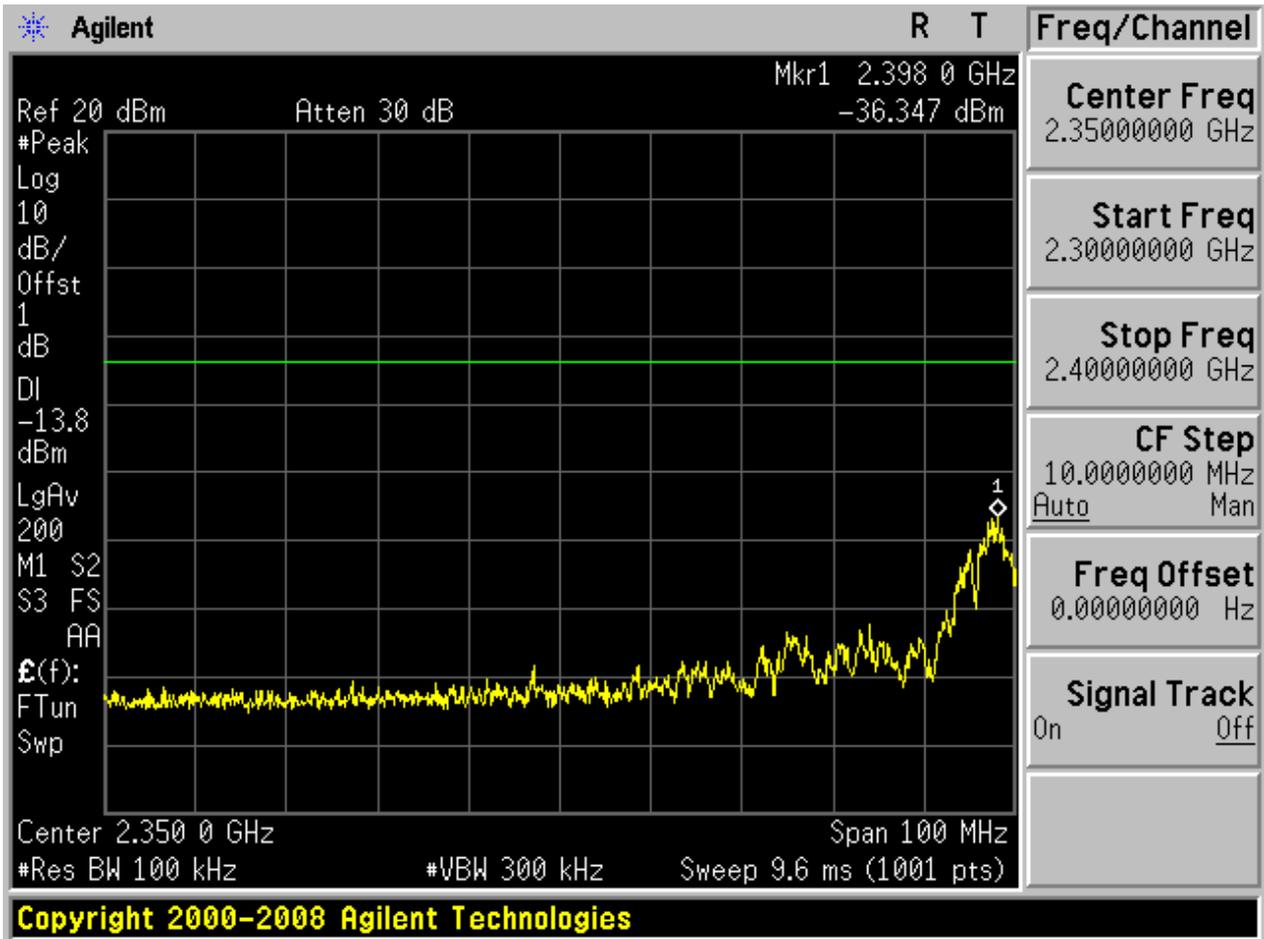


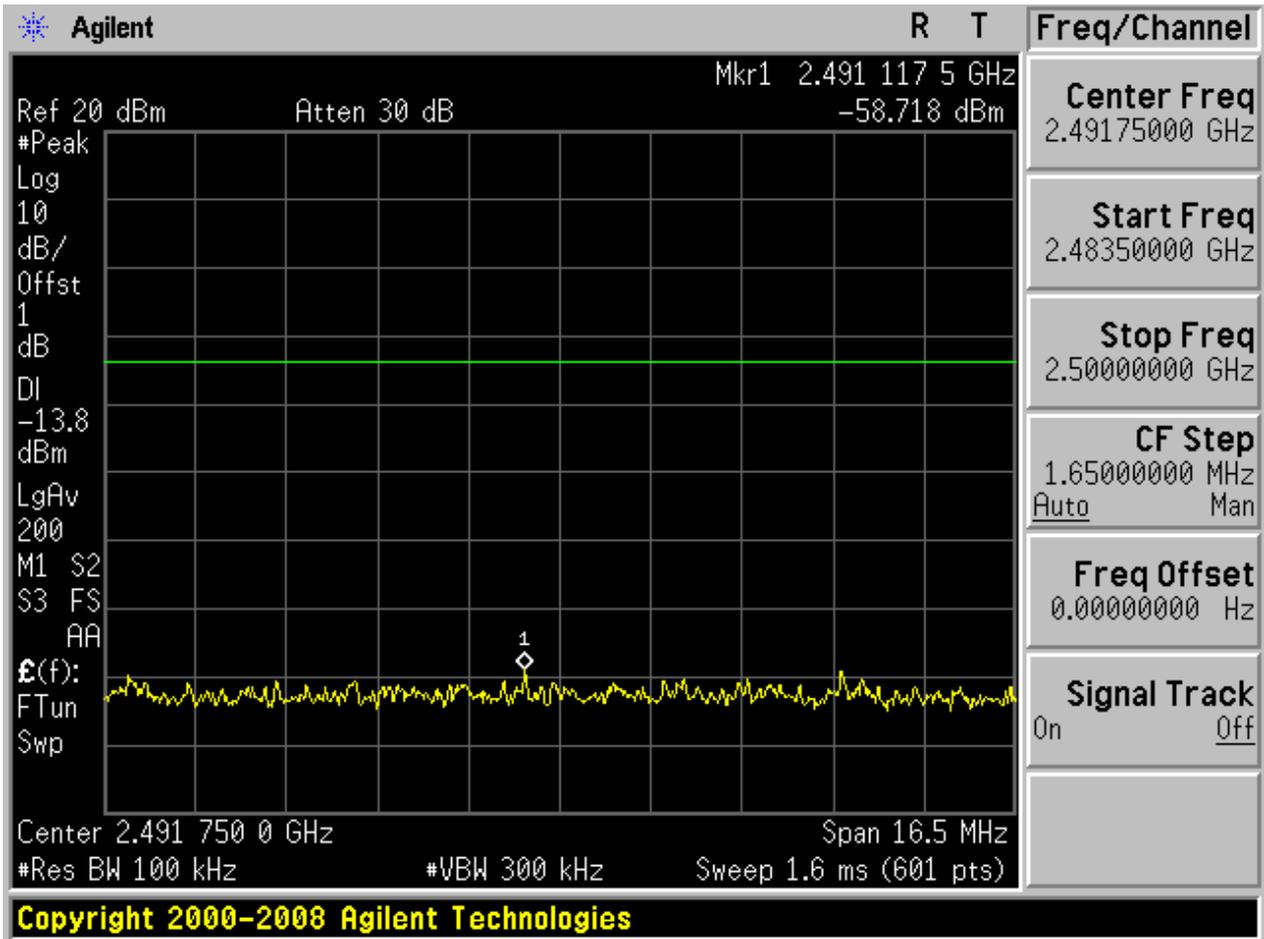
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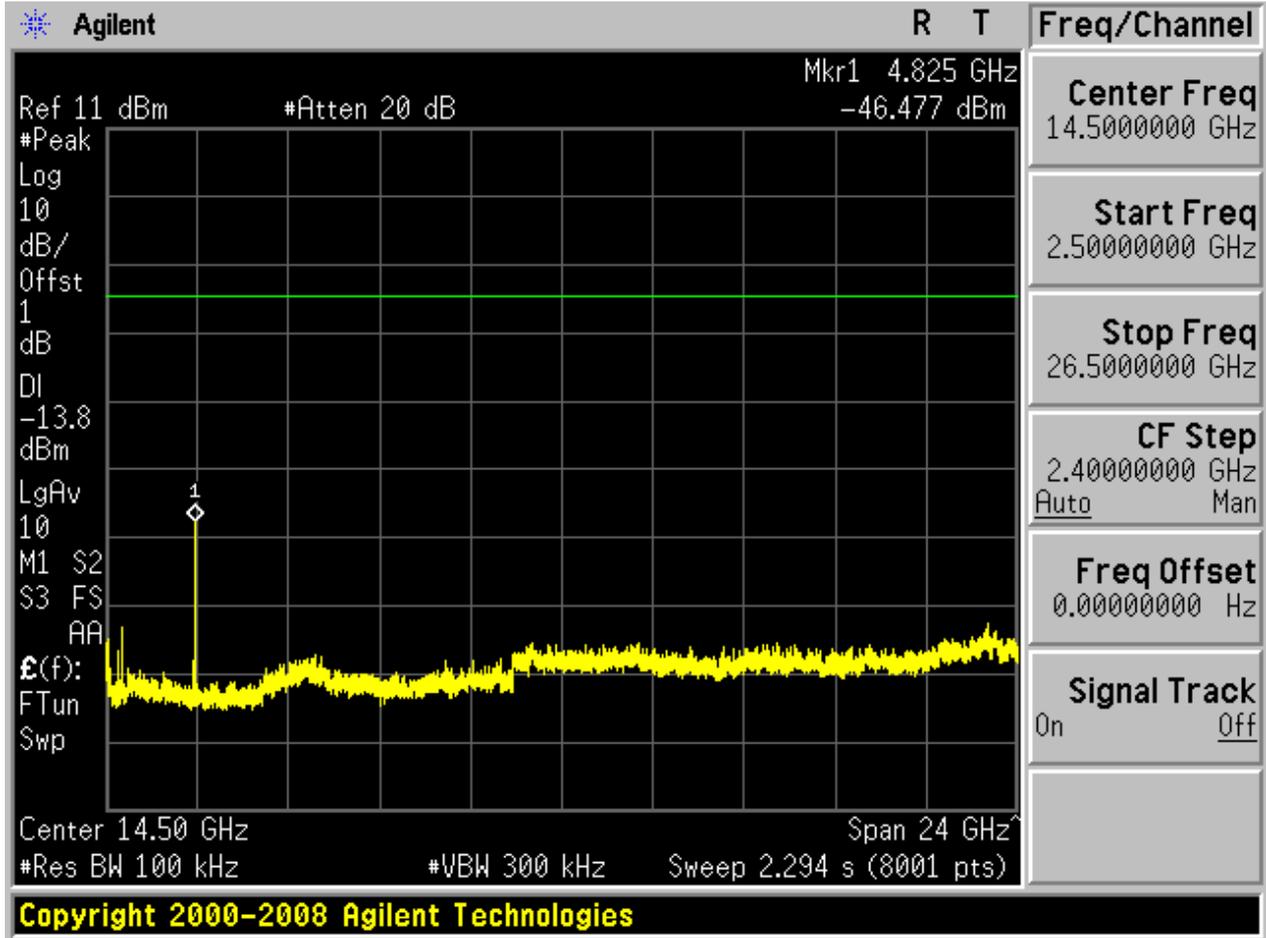








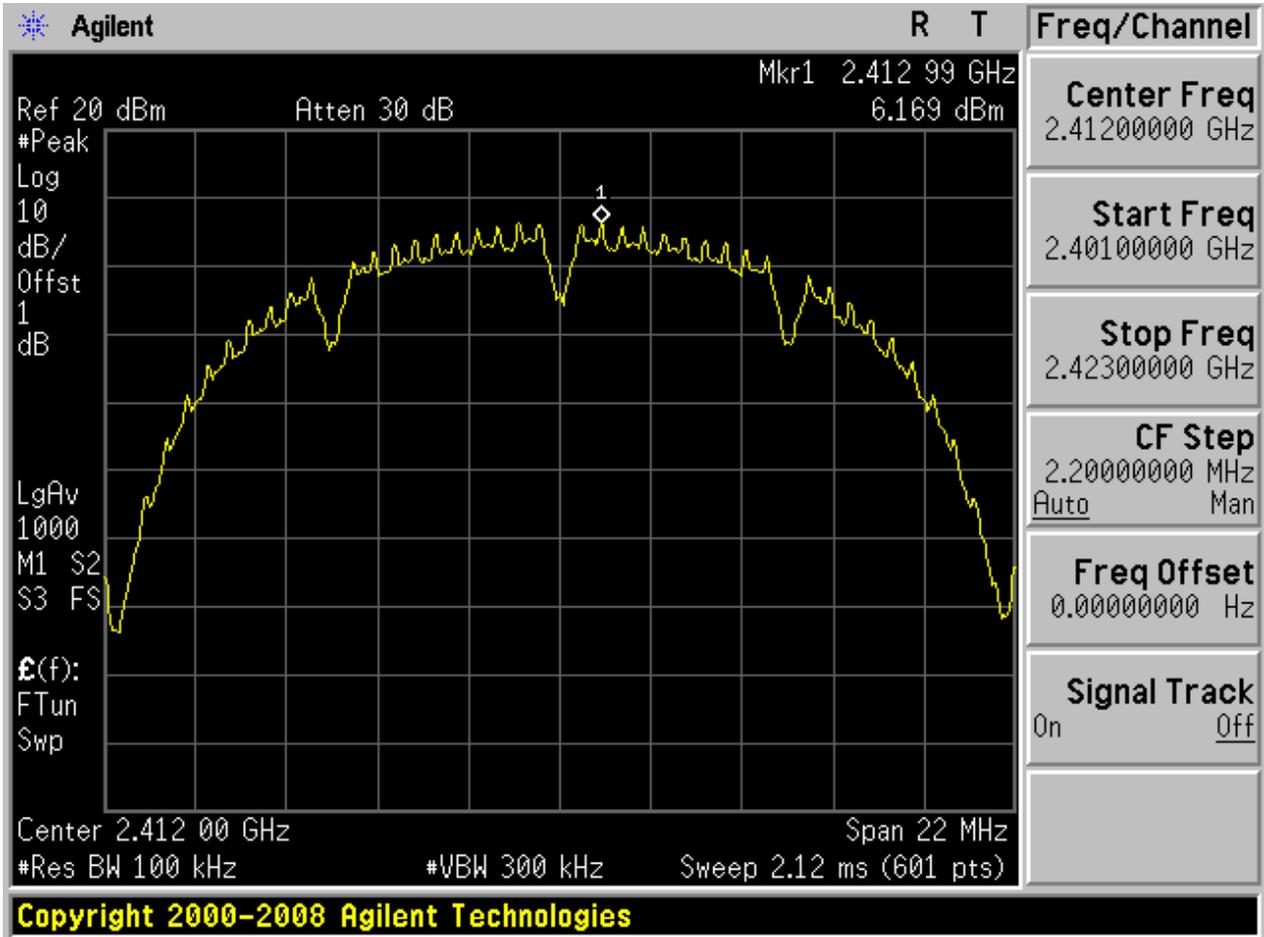






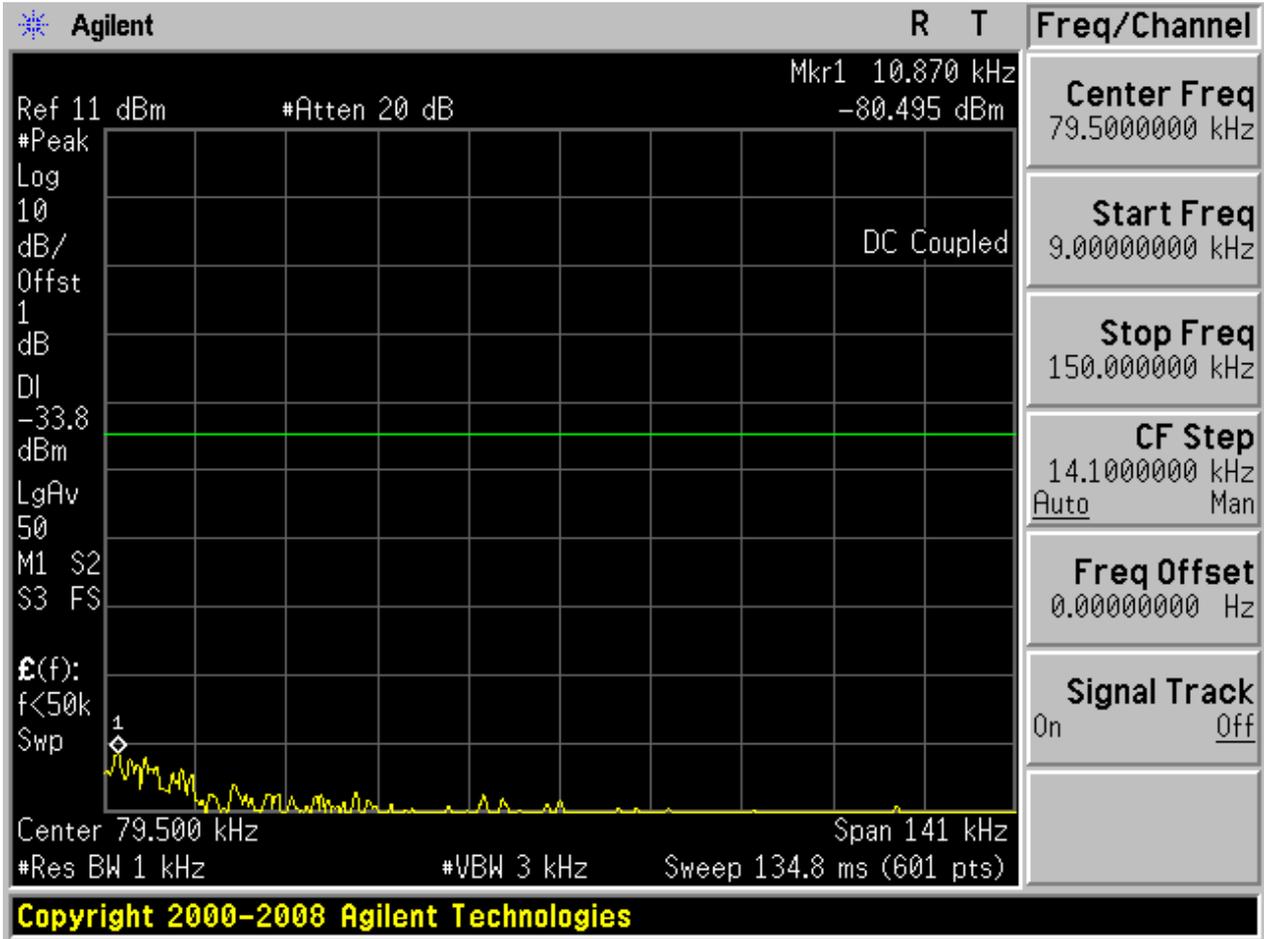
2.2 11B_L@Ant 2

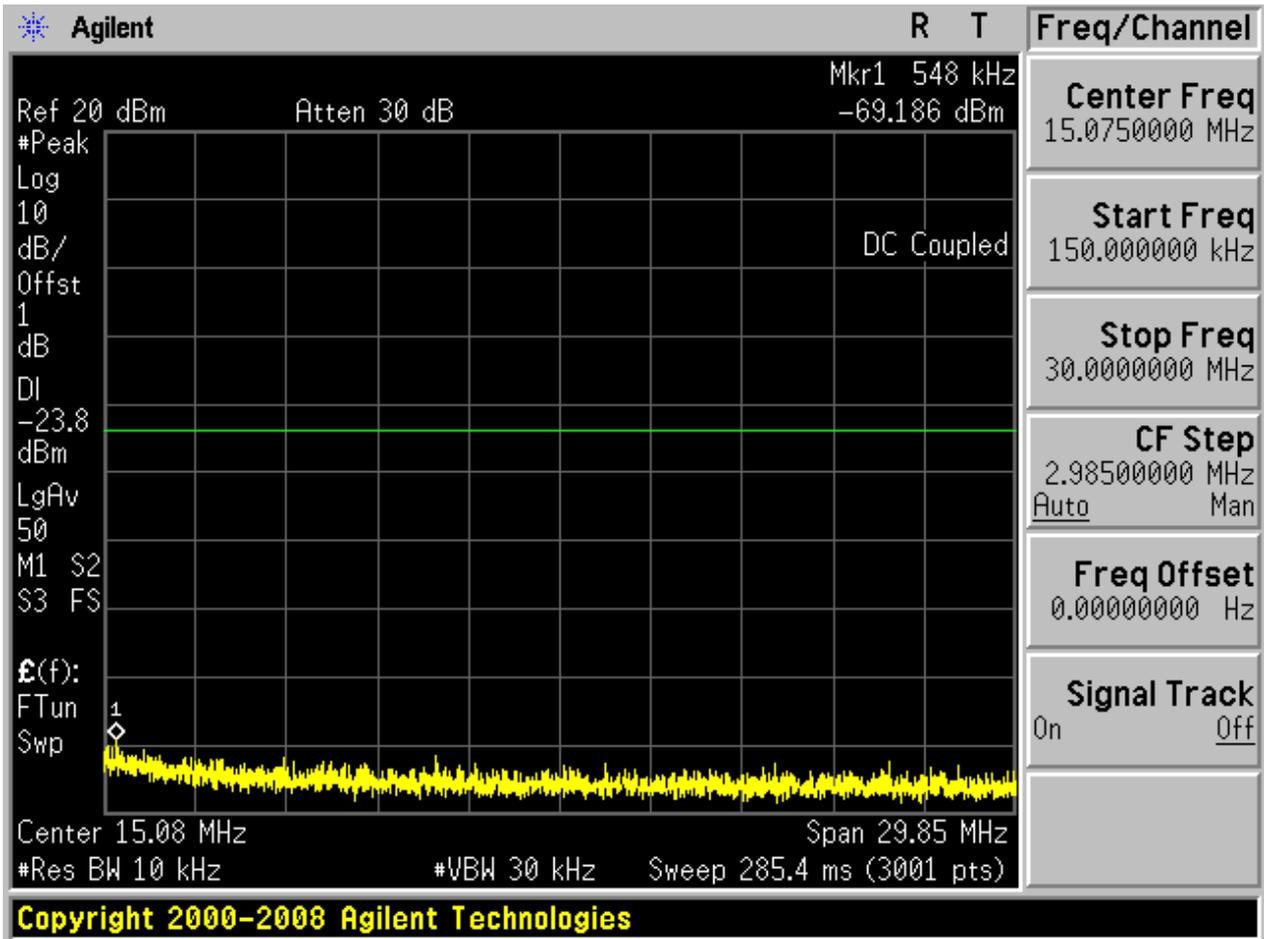
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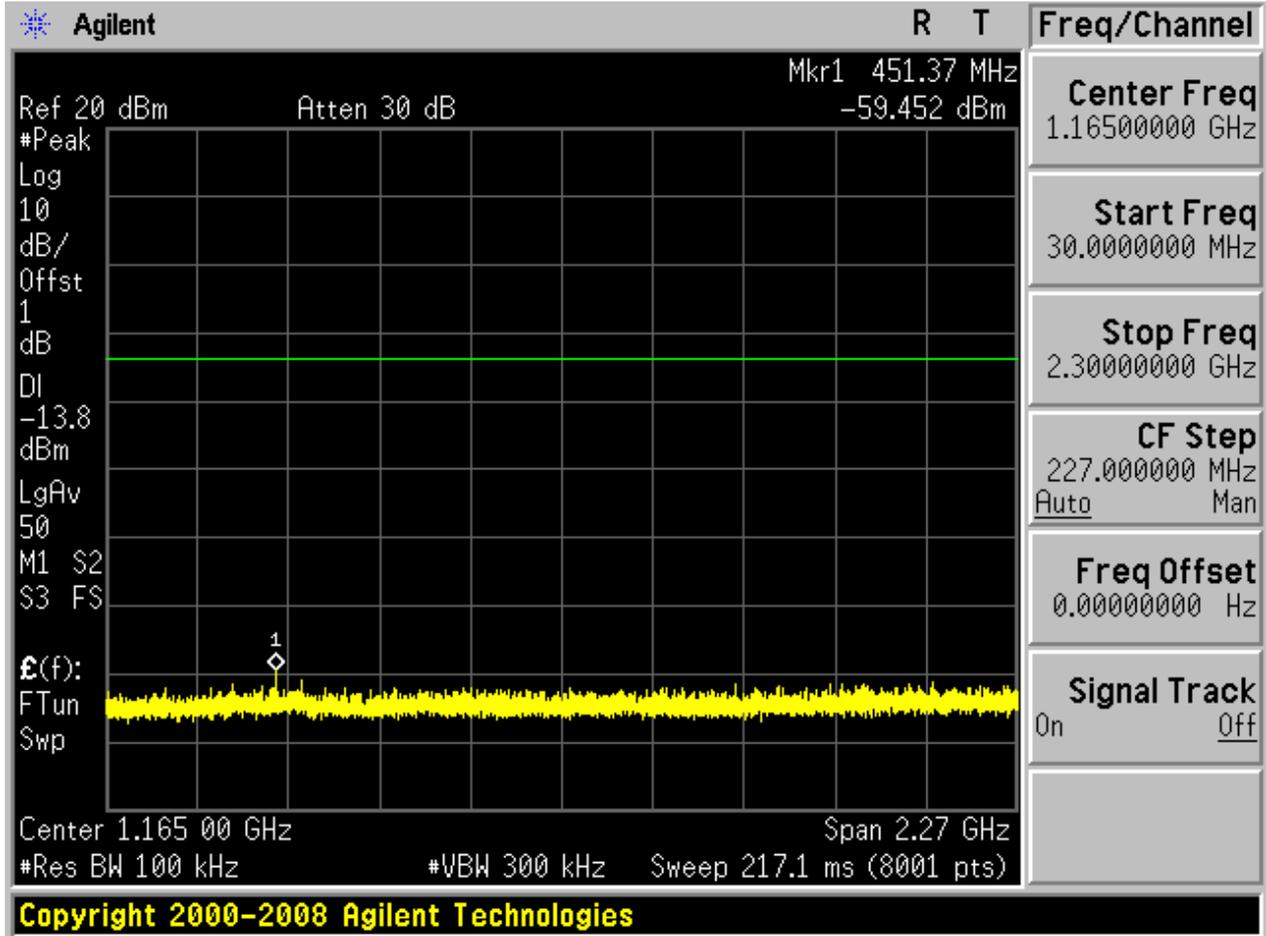


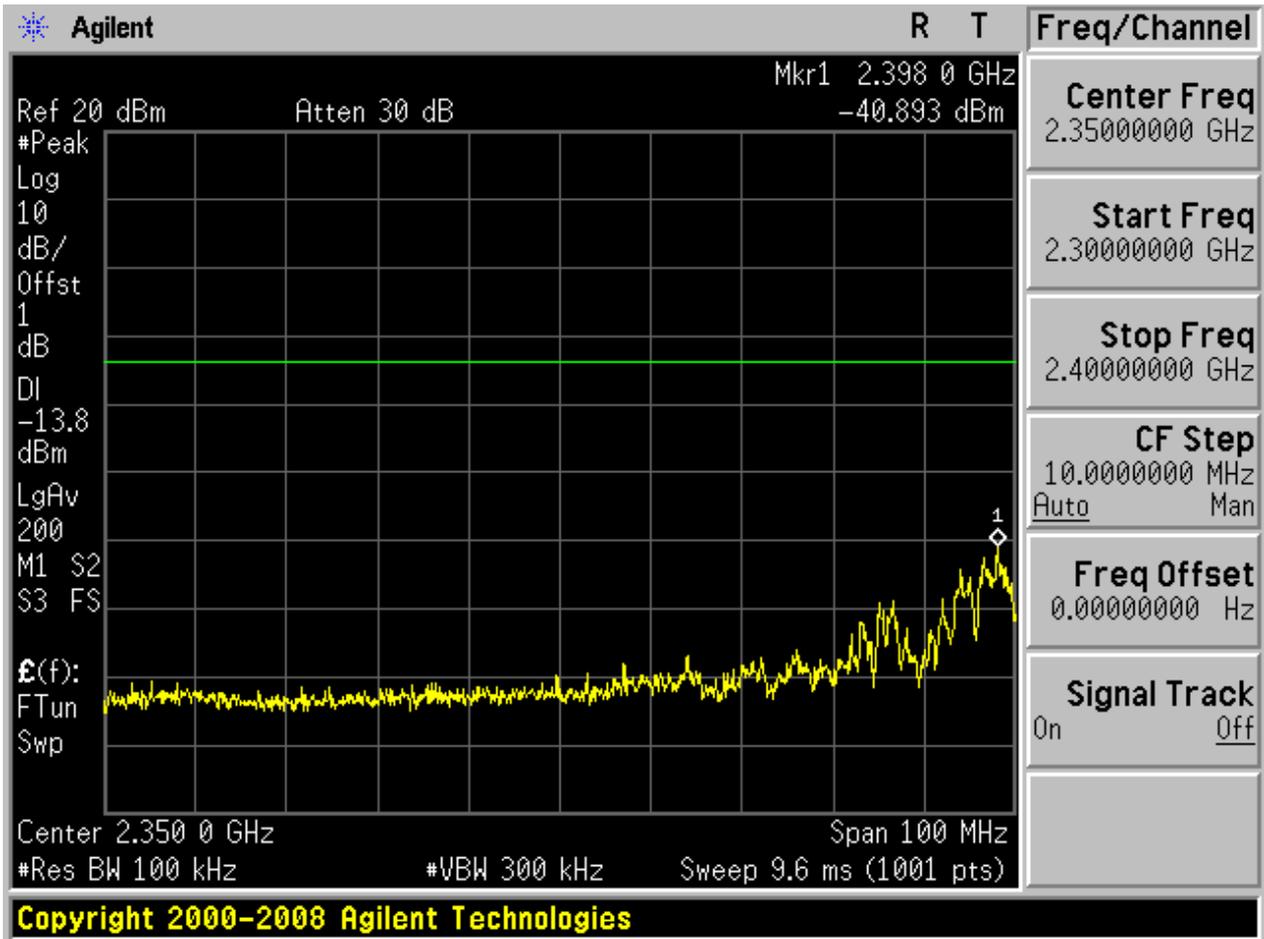


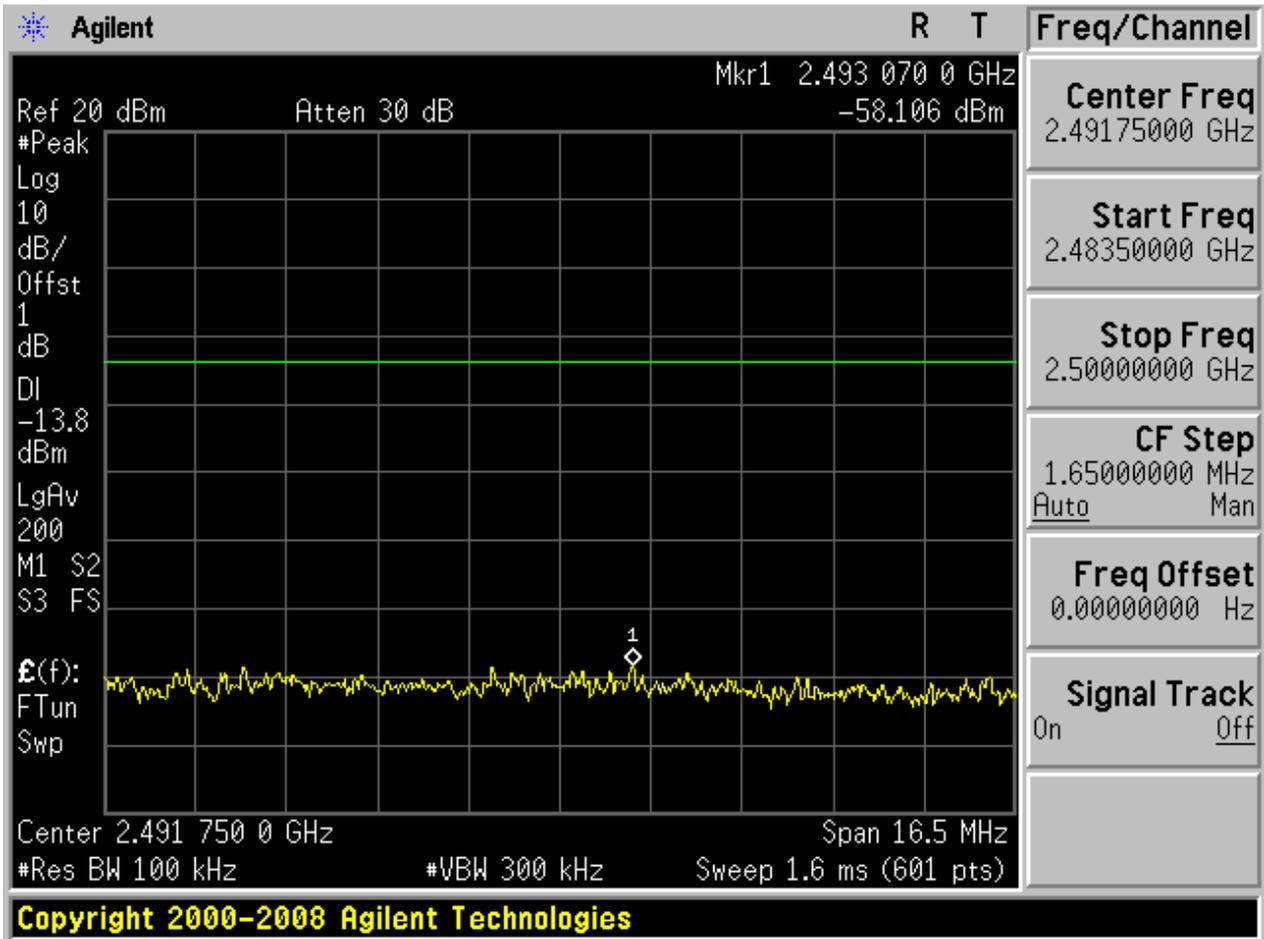
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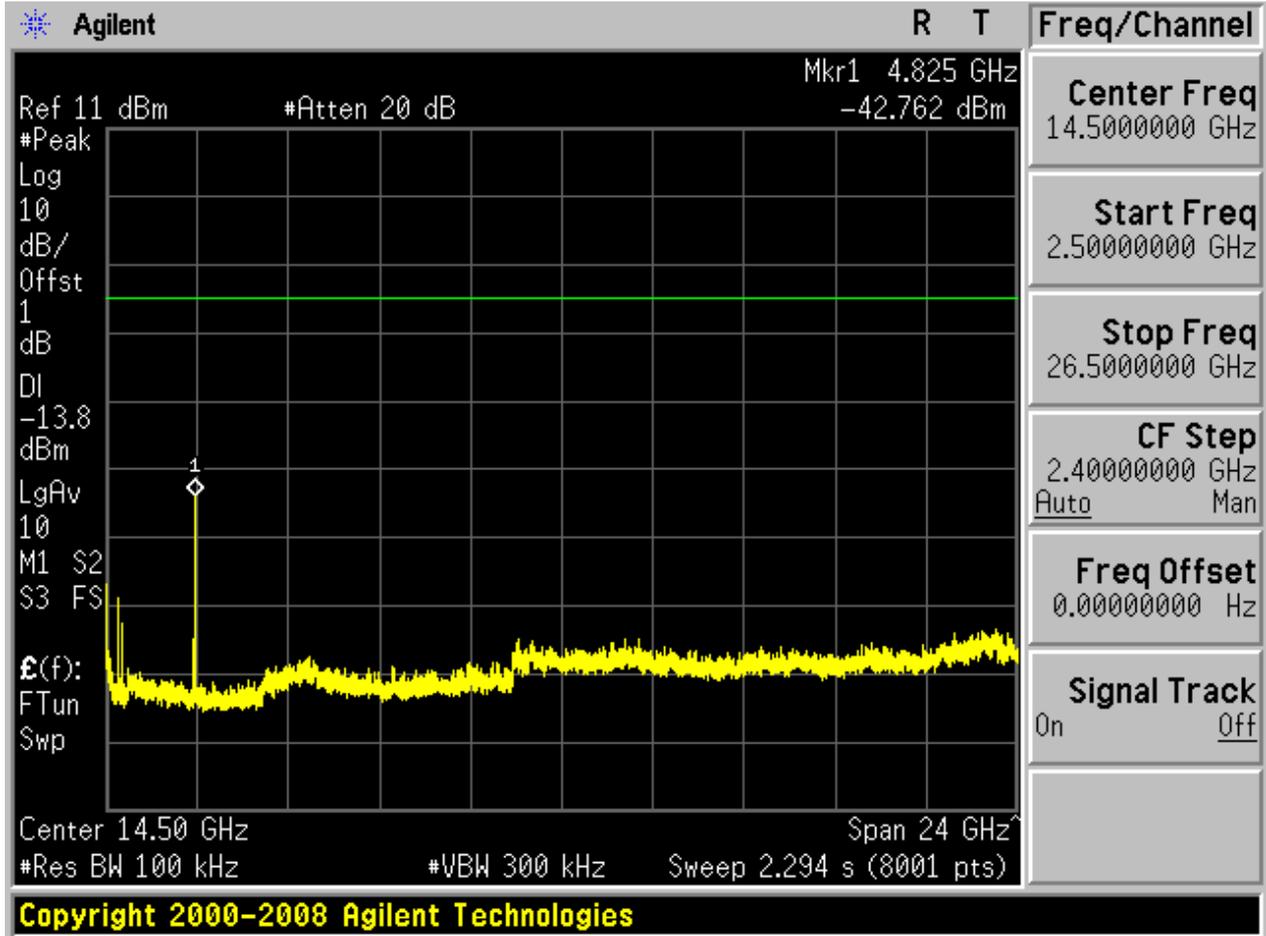








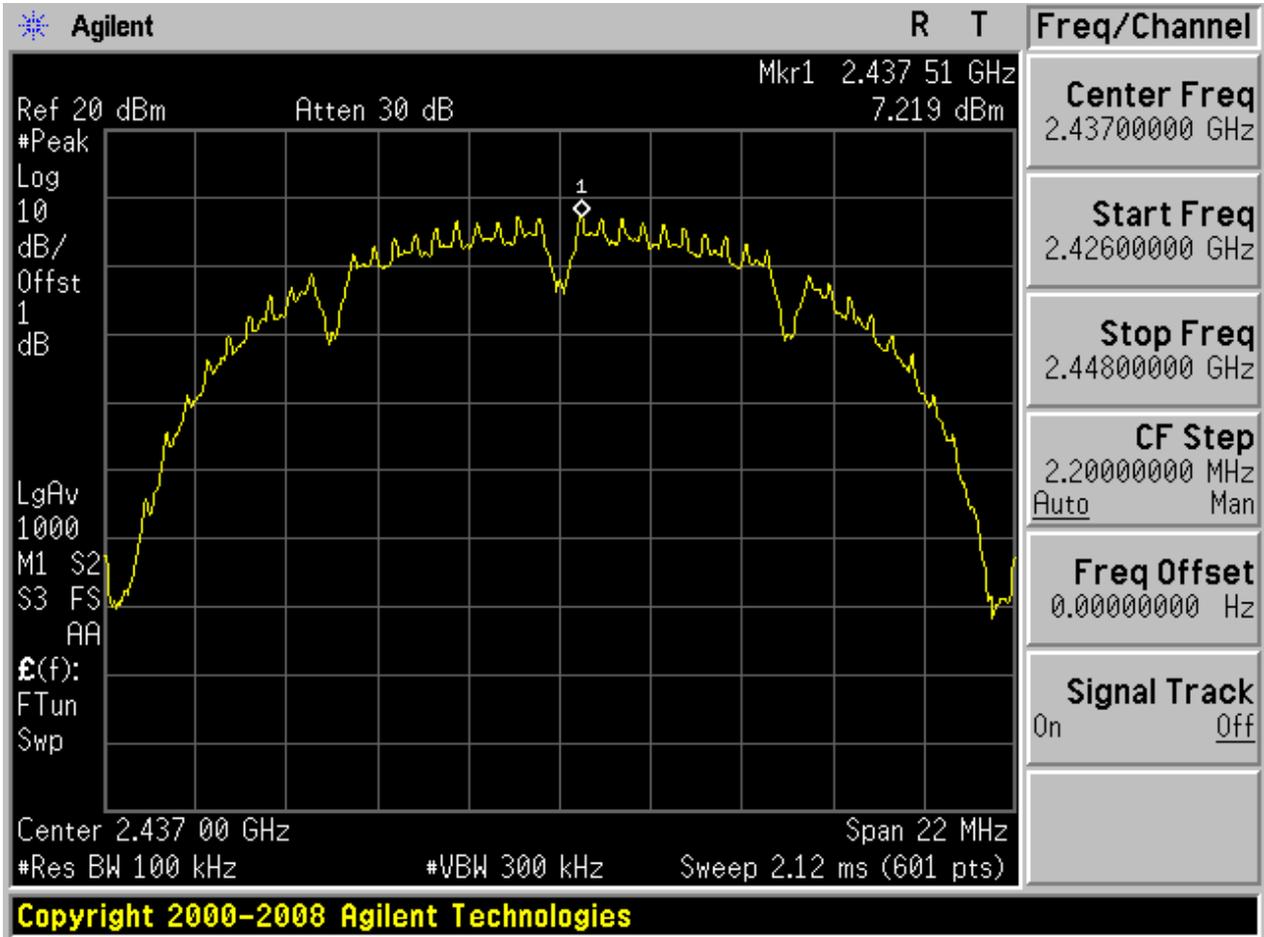






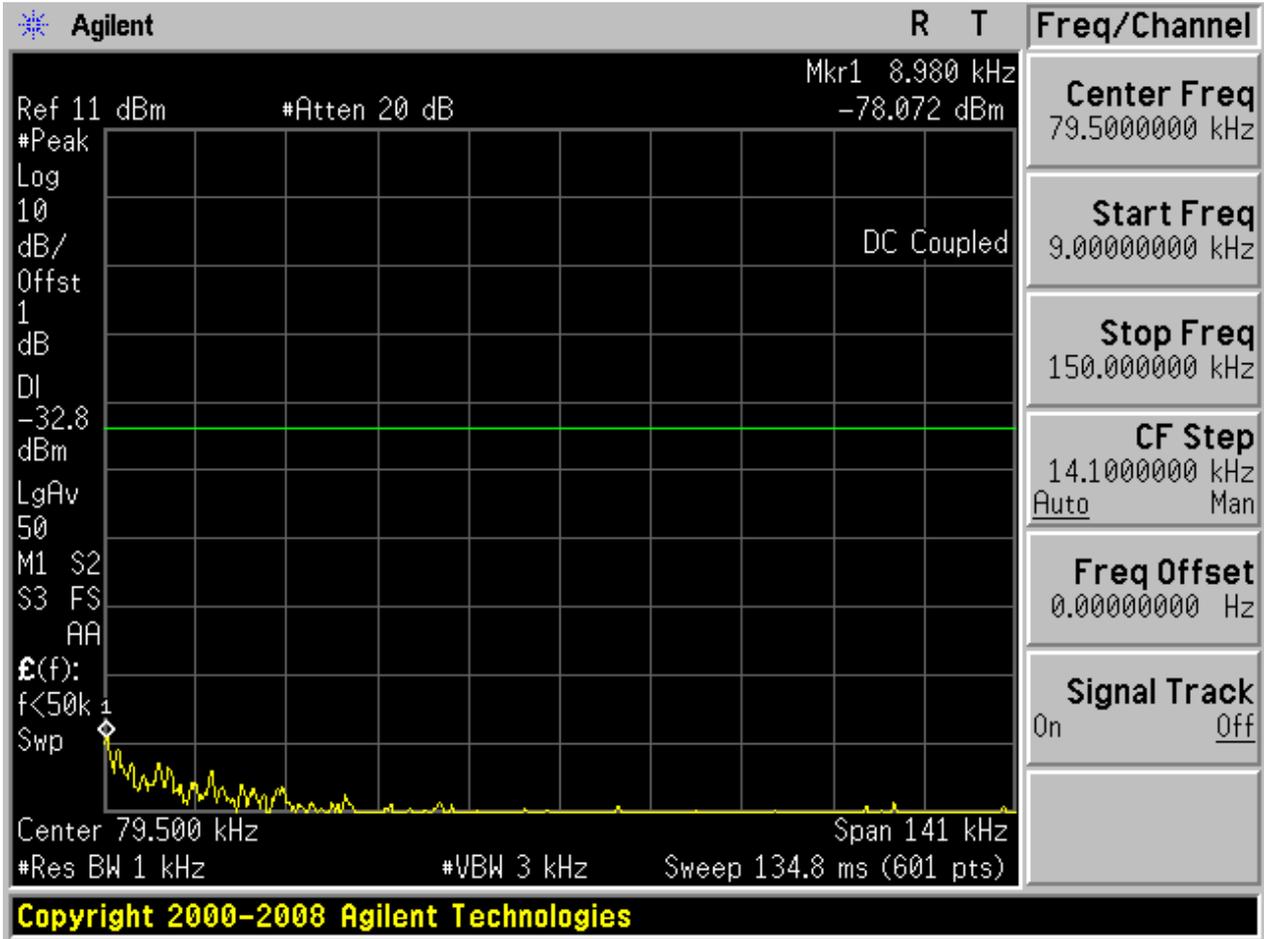
2.3 11B_M@Ant 1

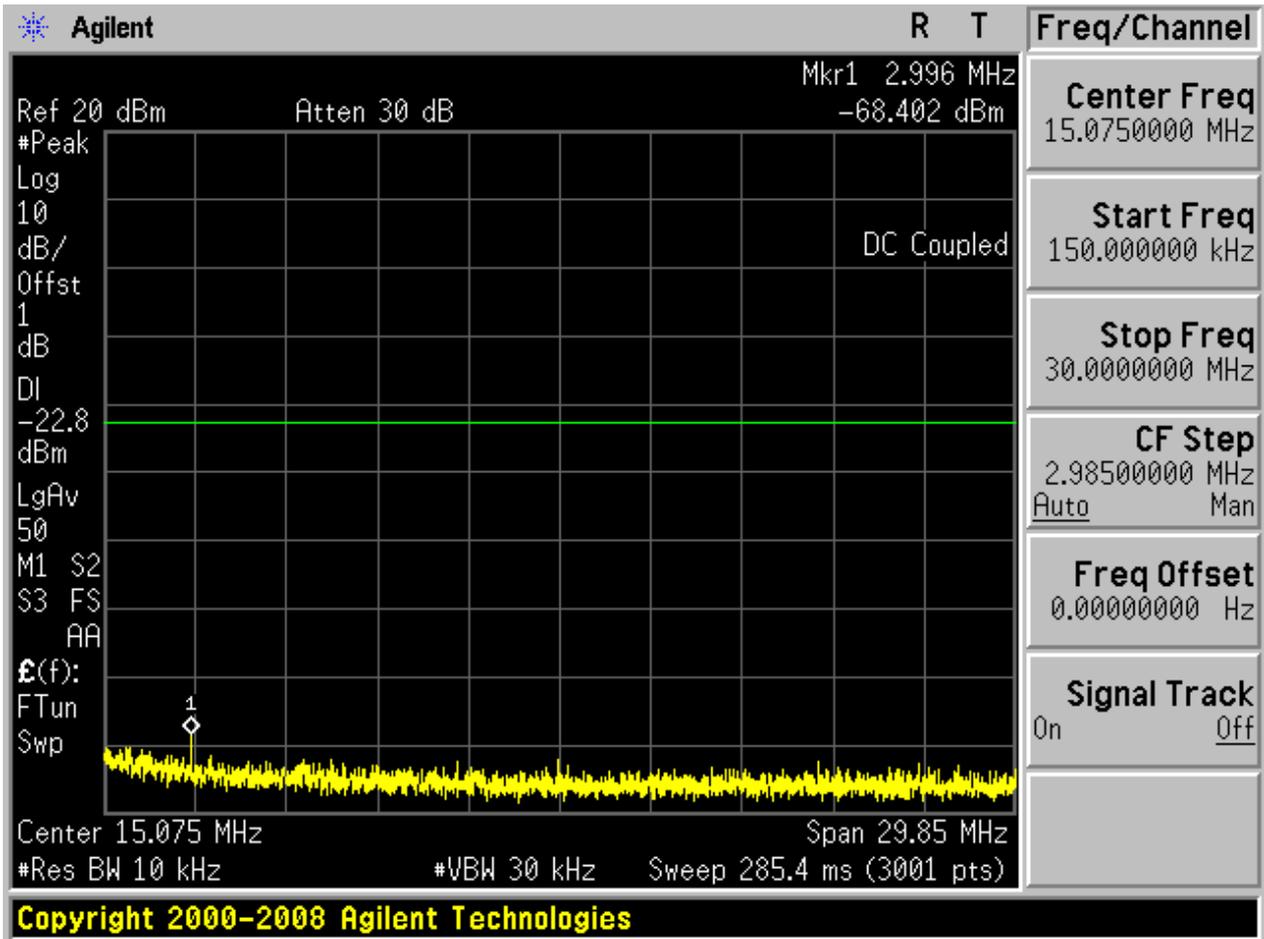
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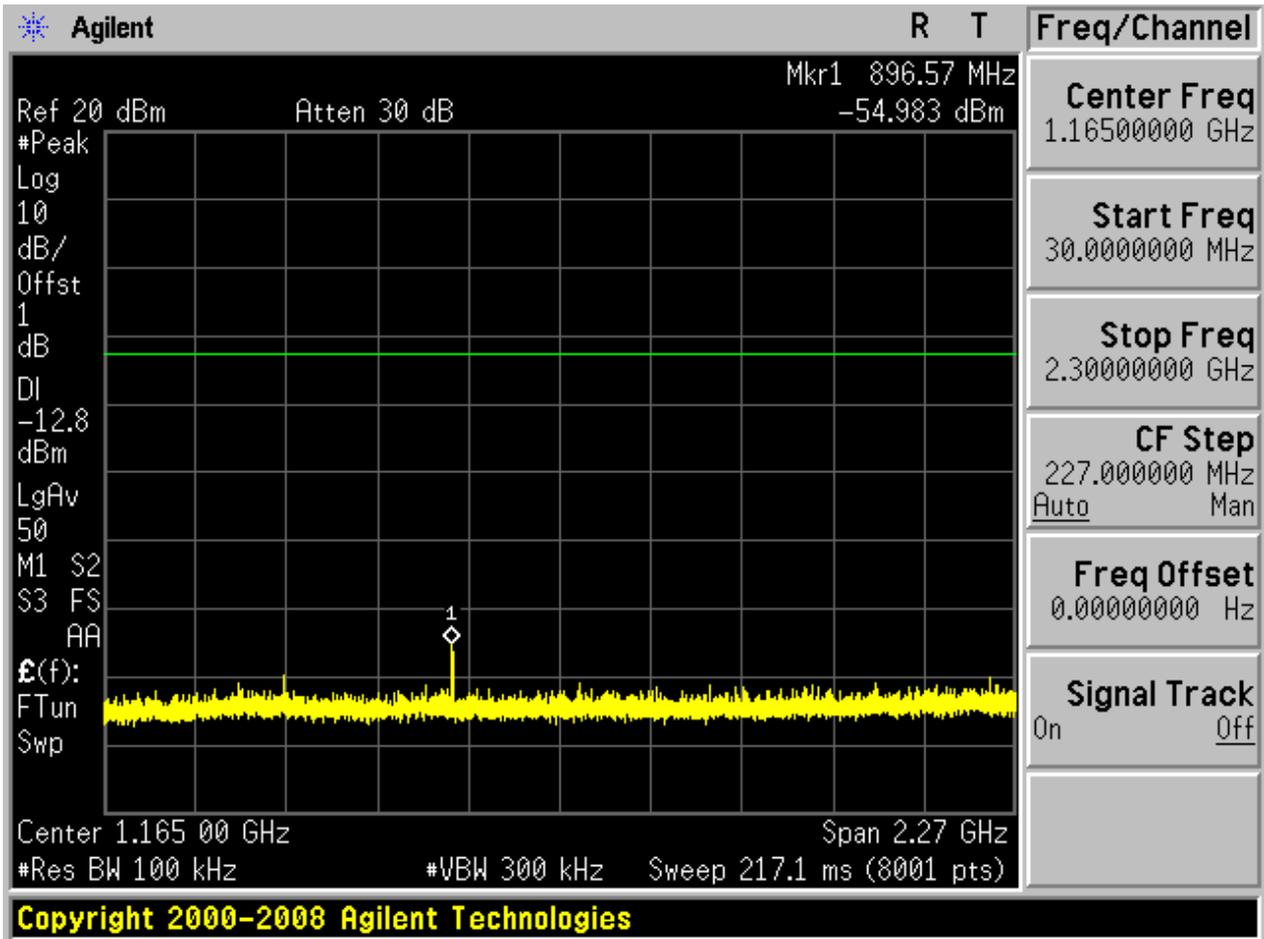


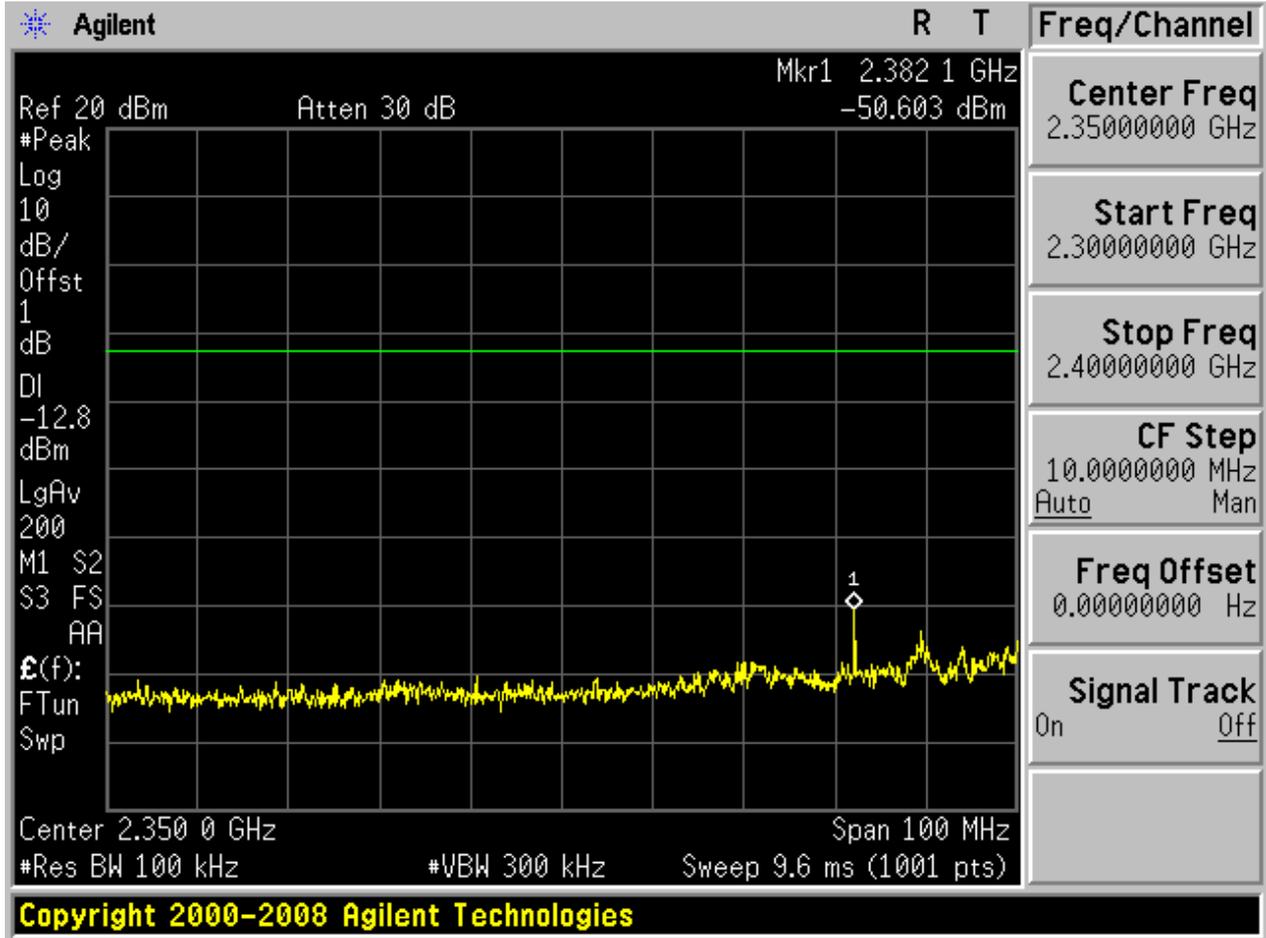


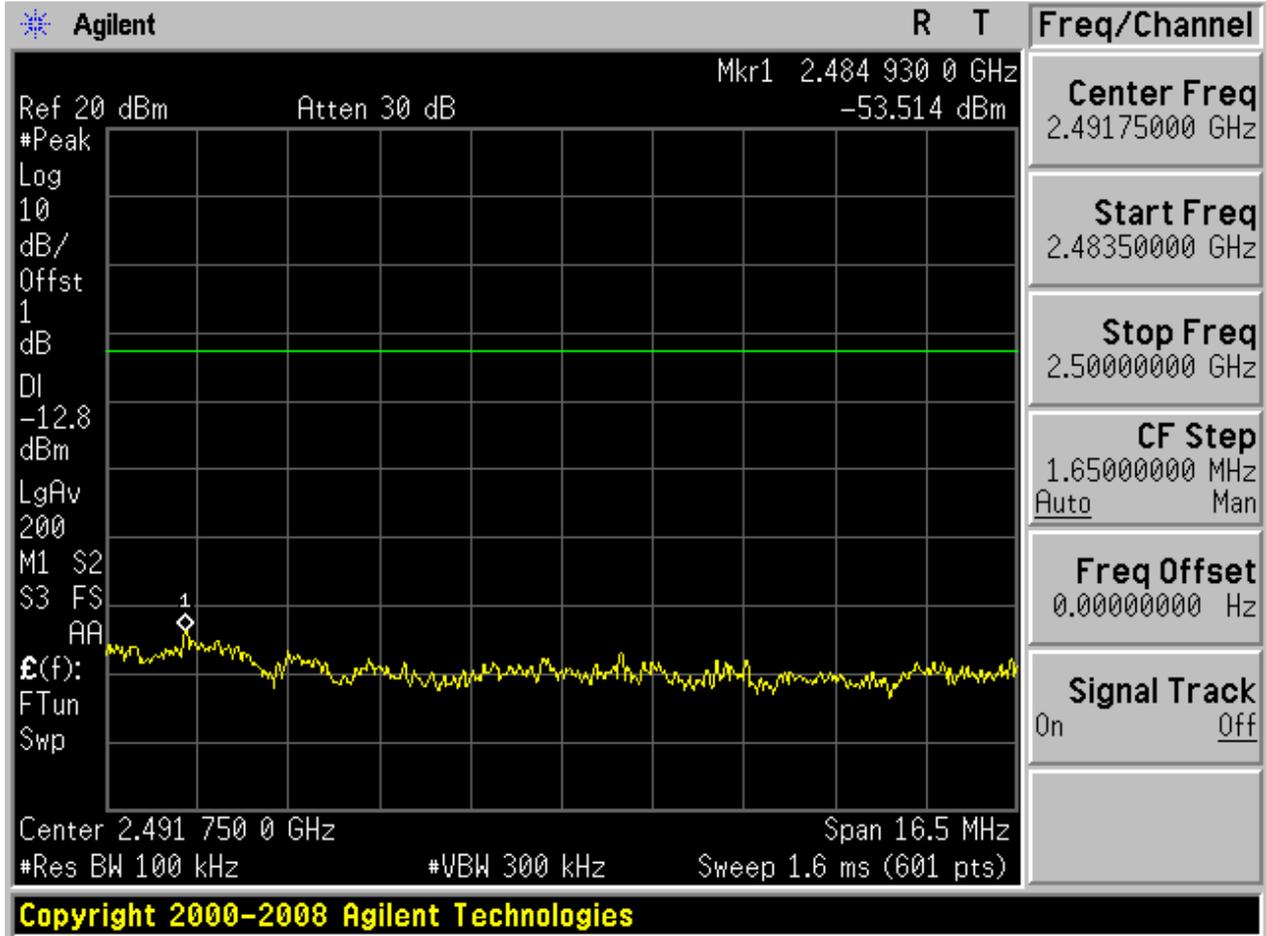
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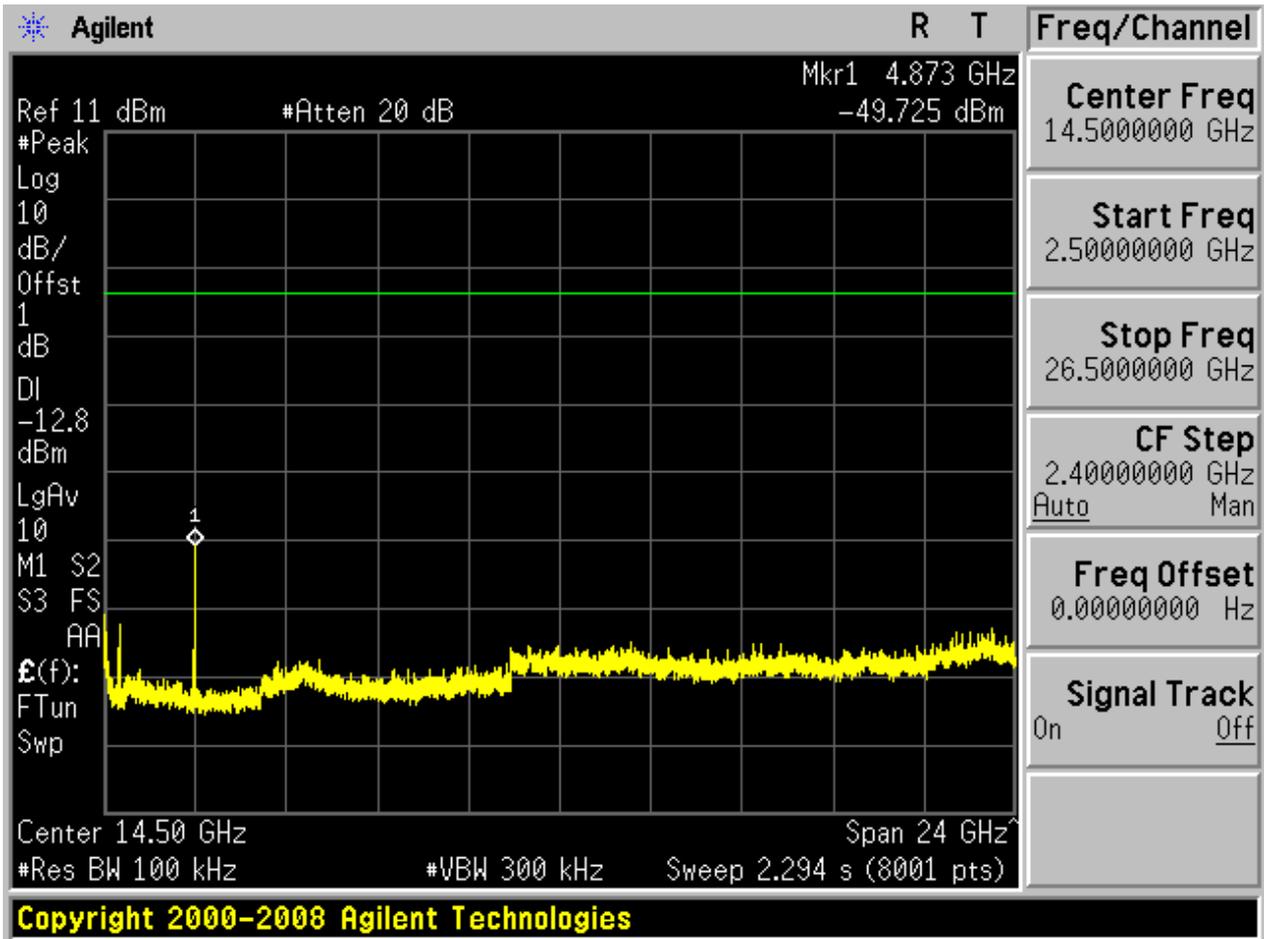






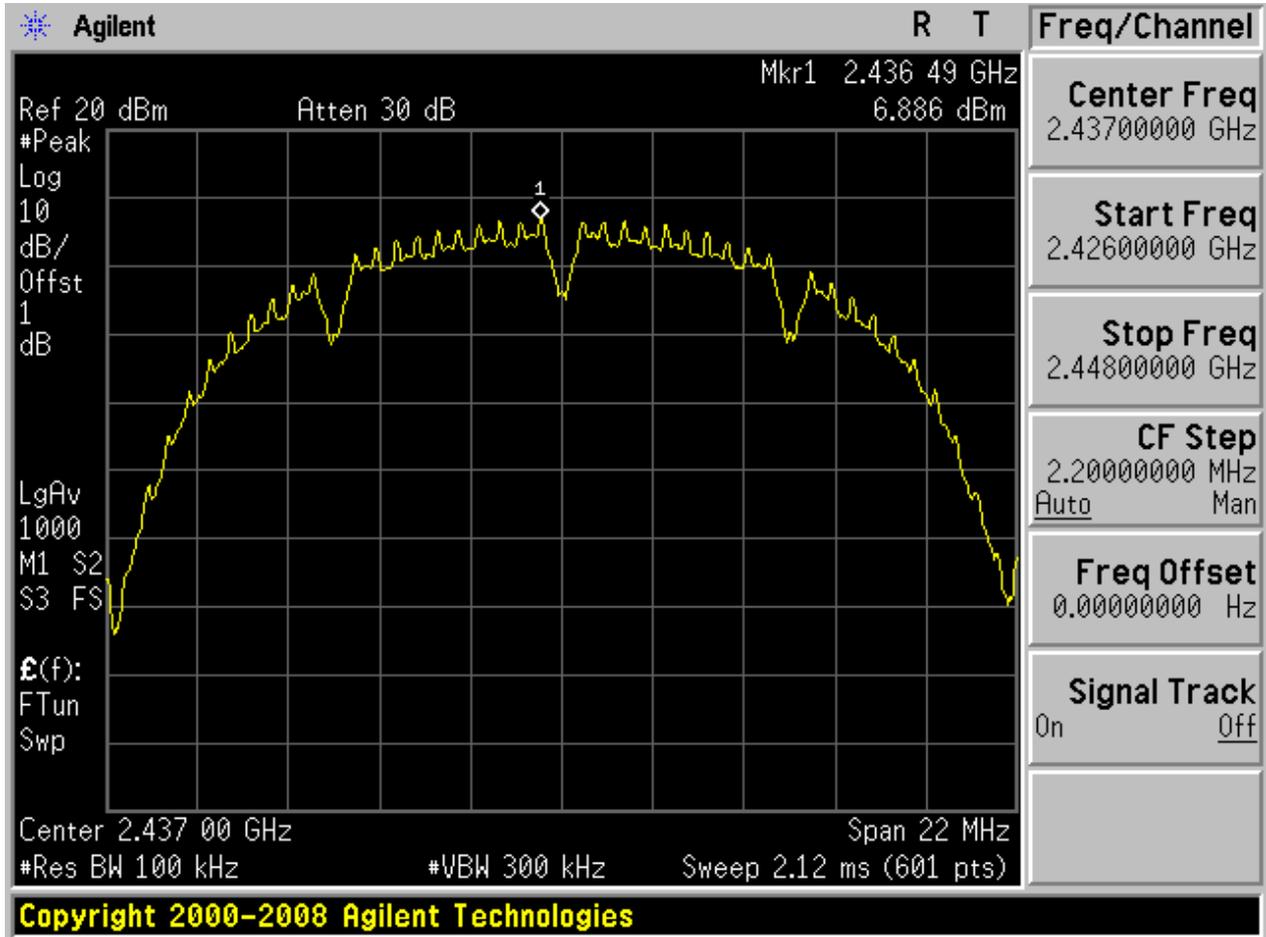






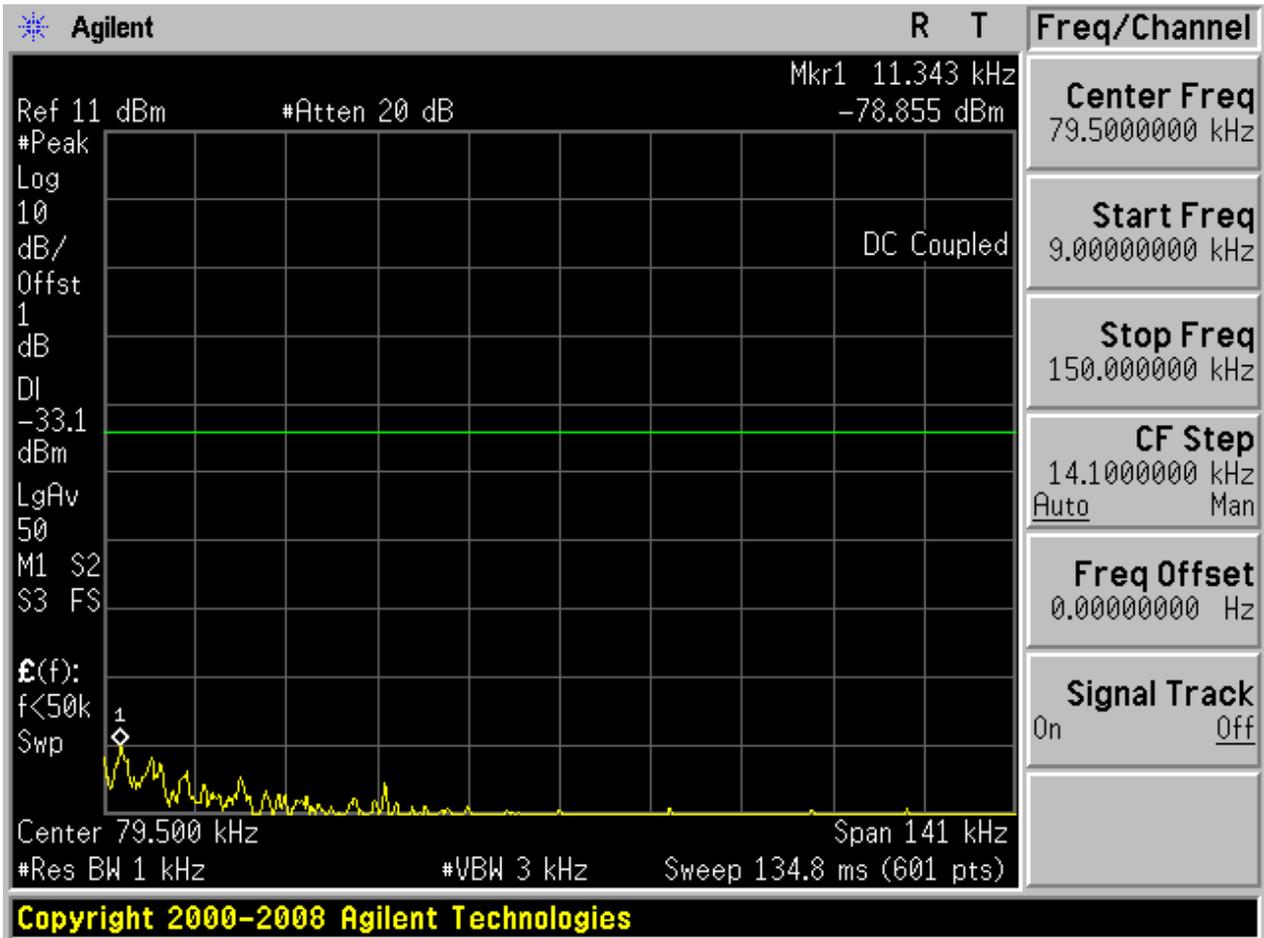
2.4 11B_M@Ant 2

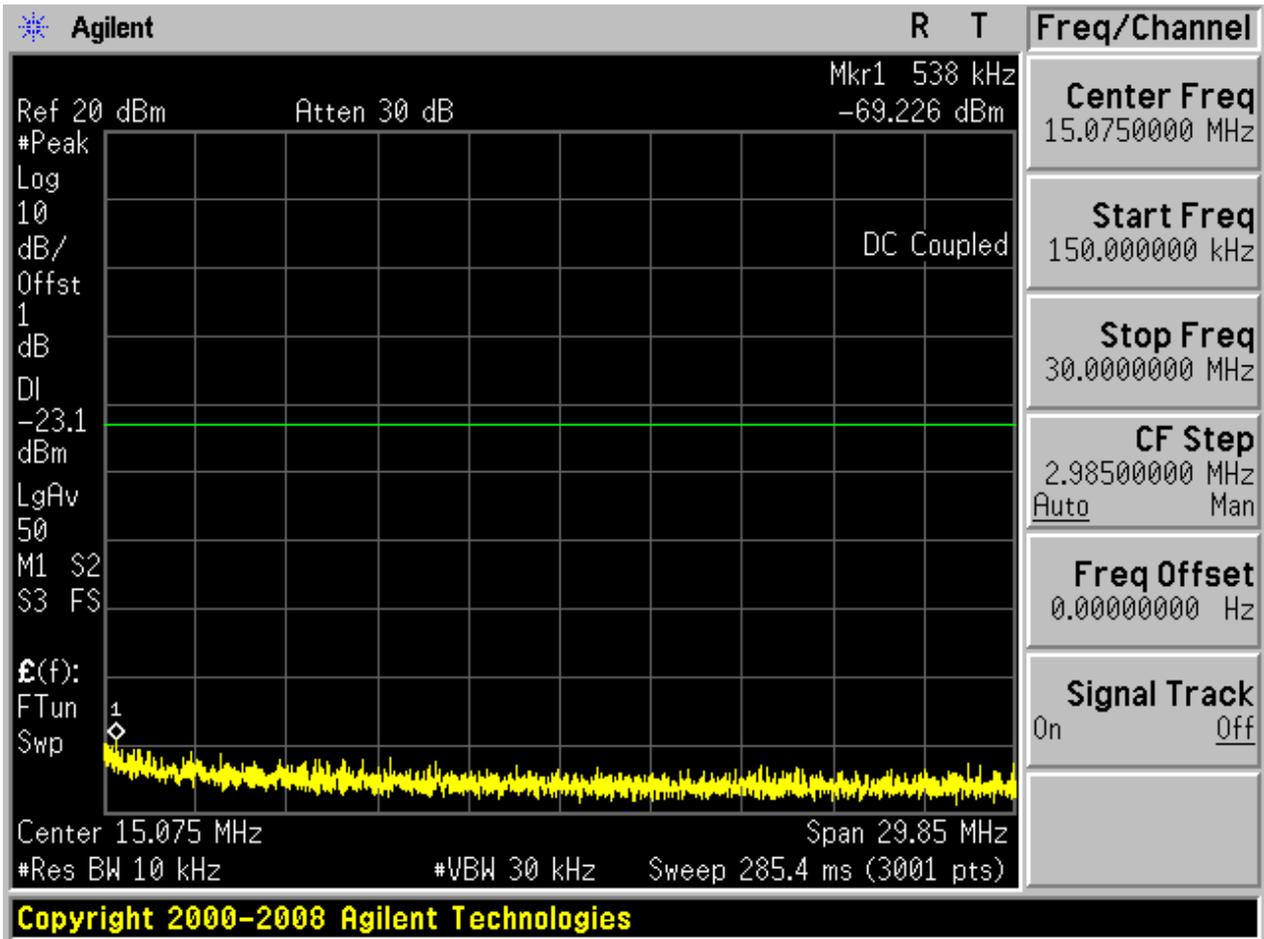
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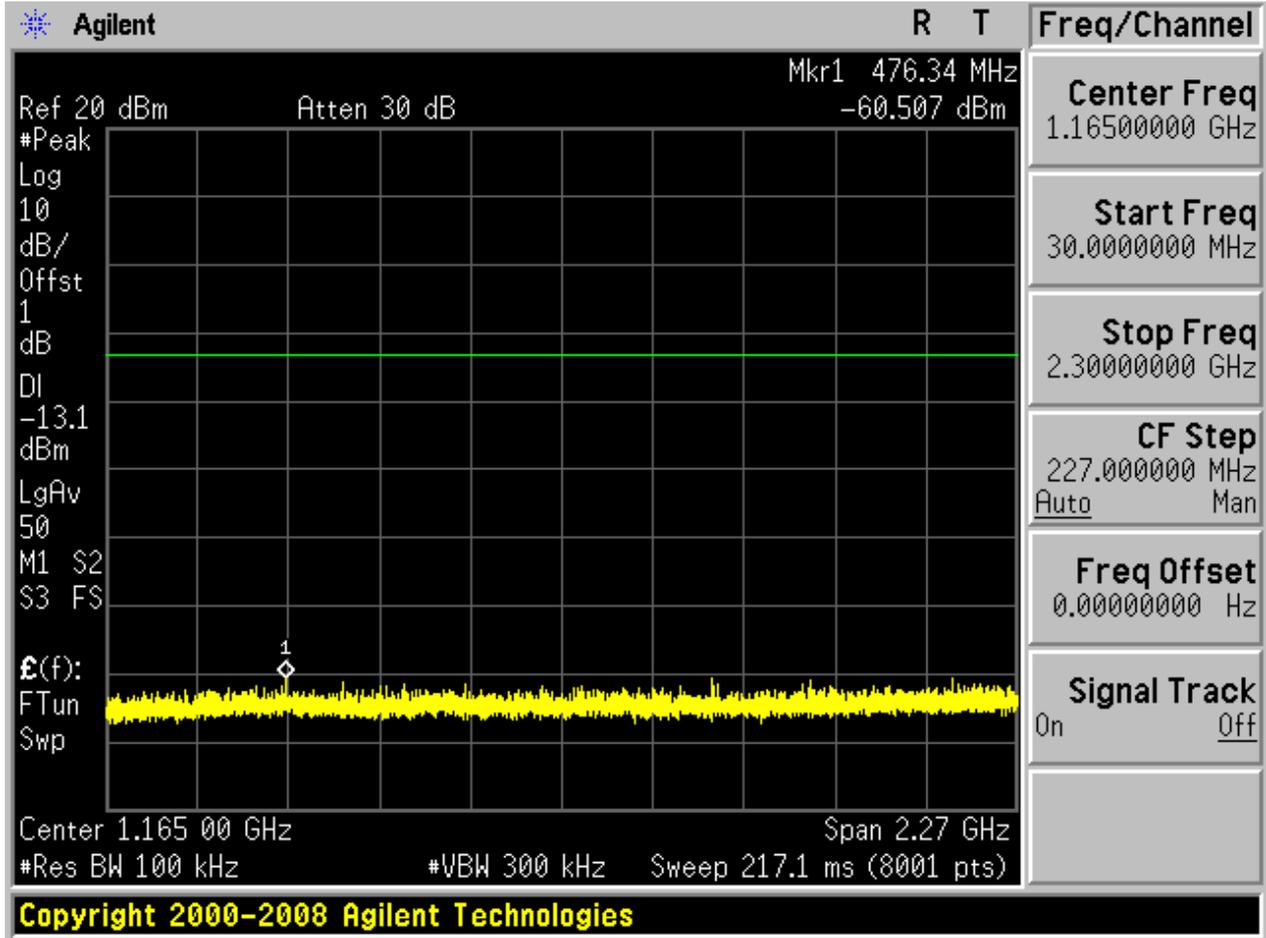


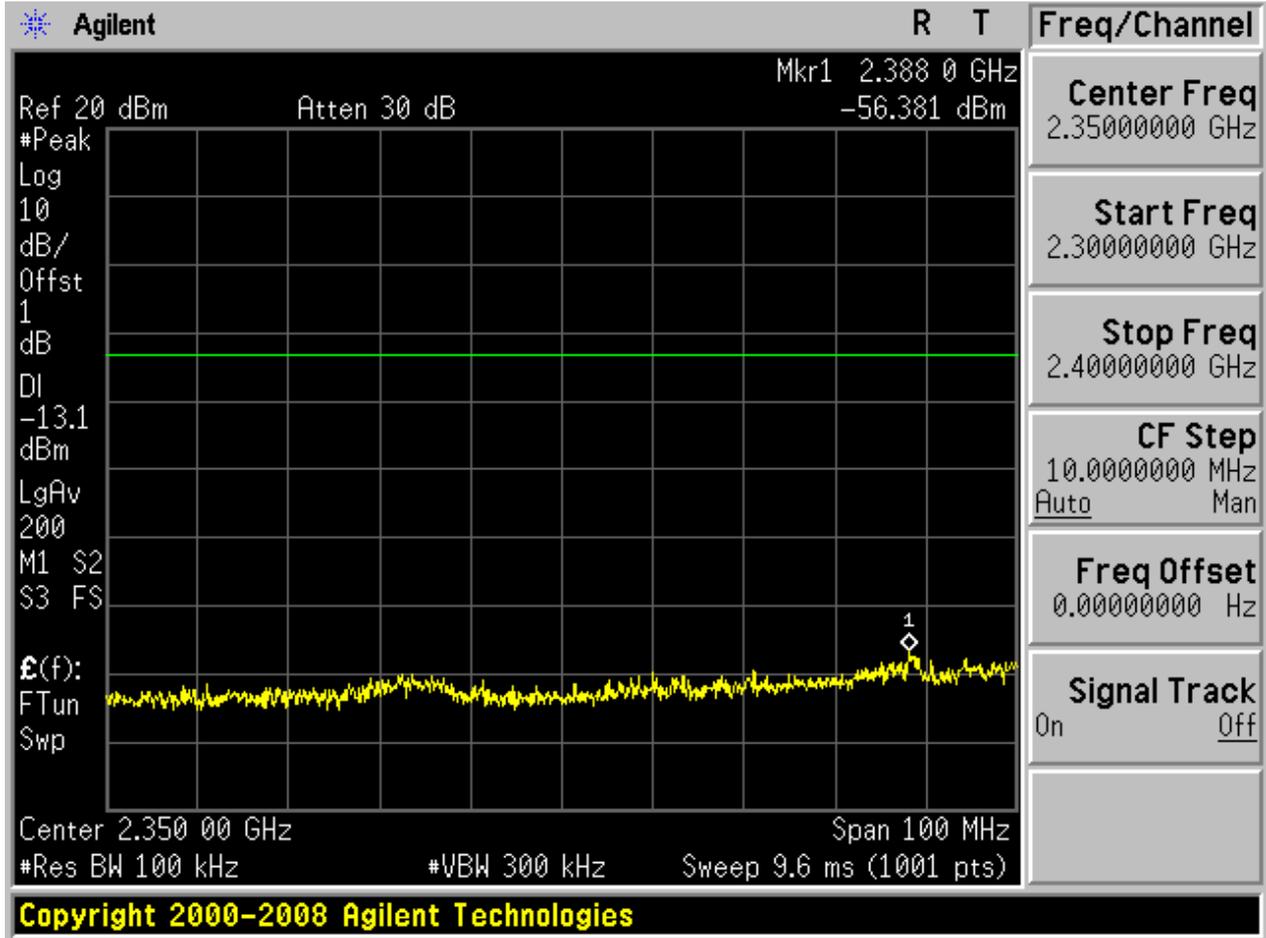


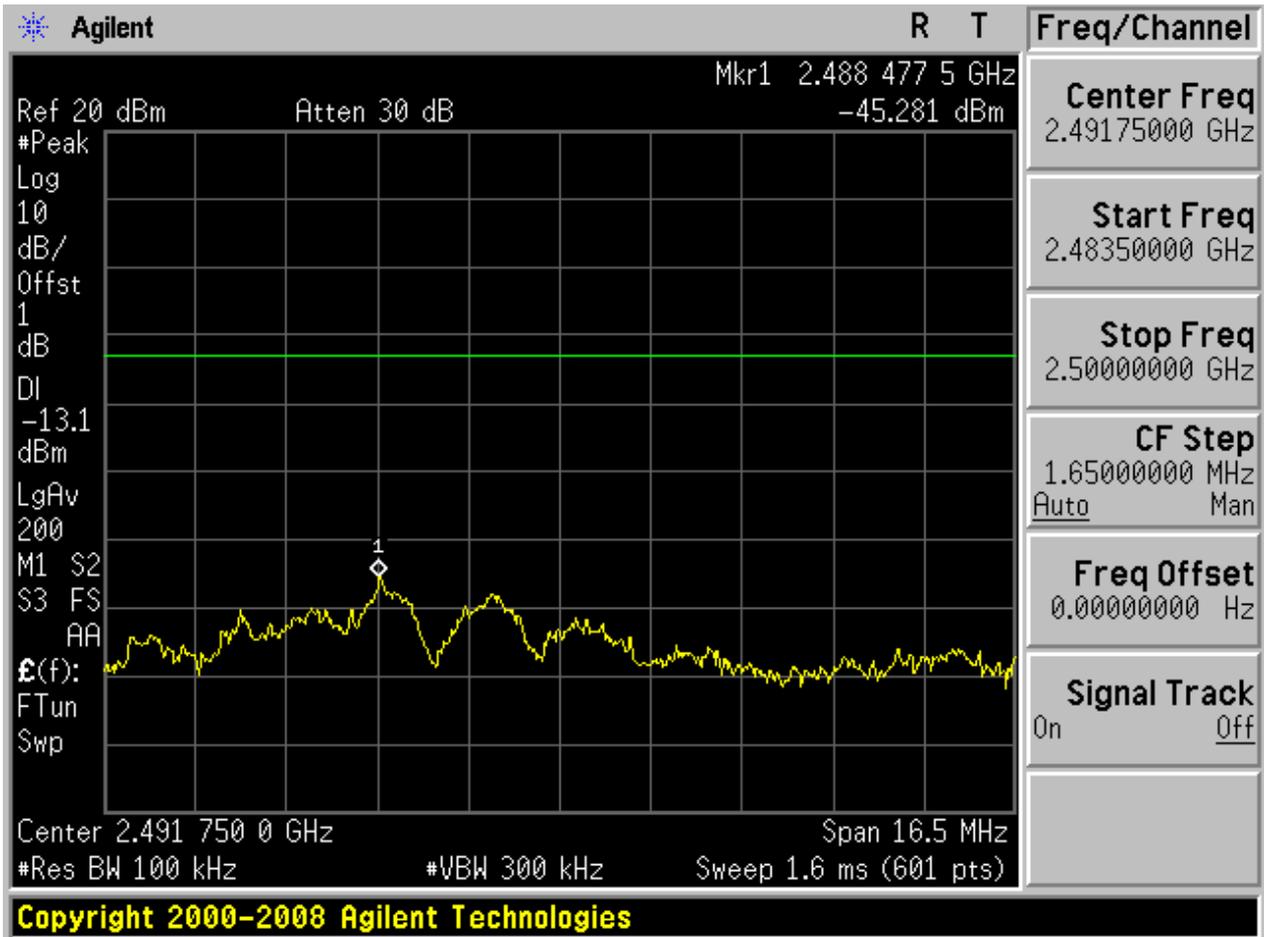
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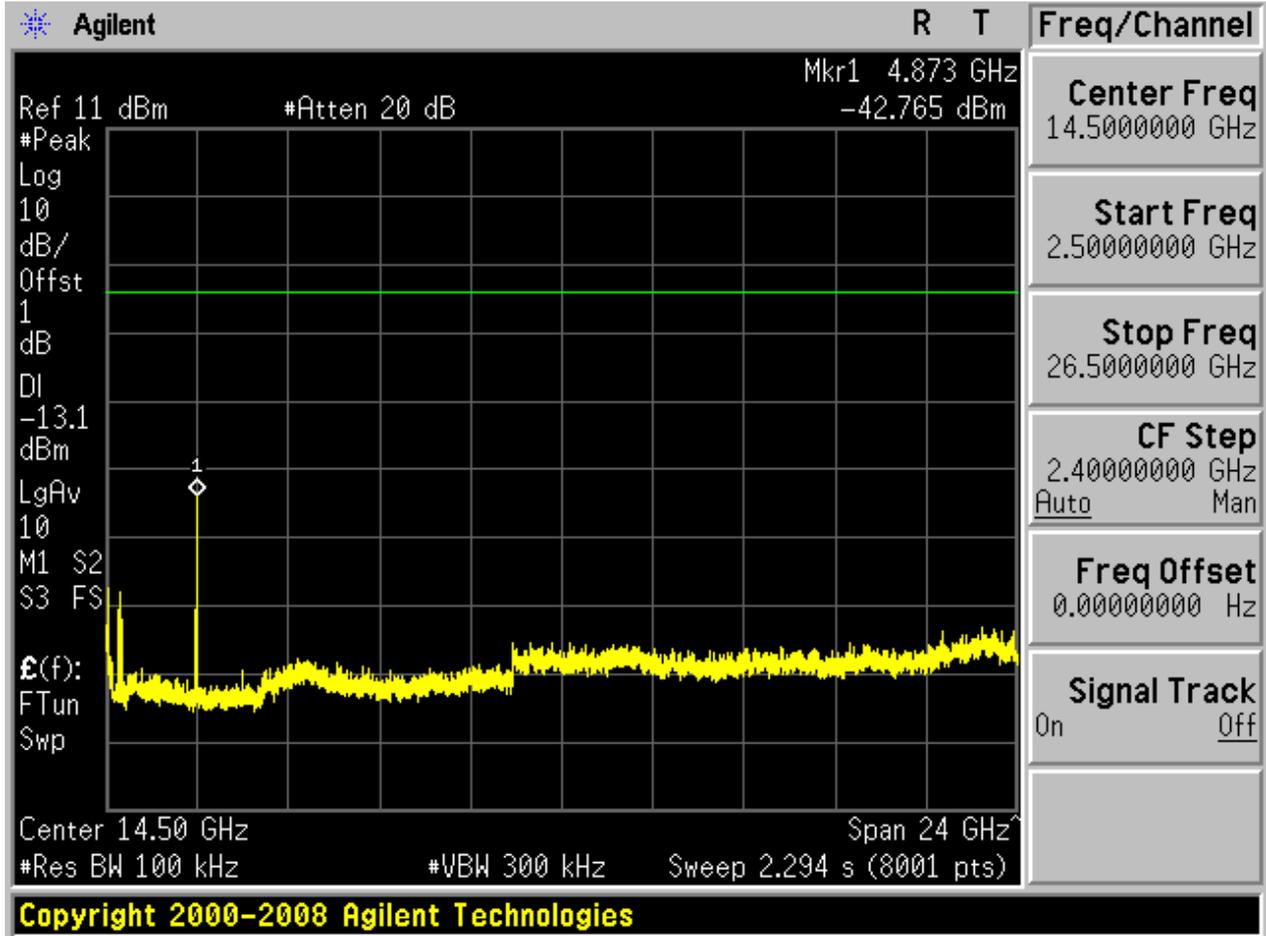








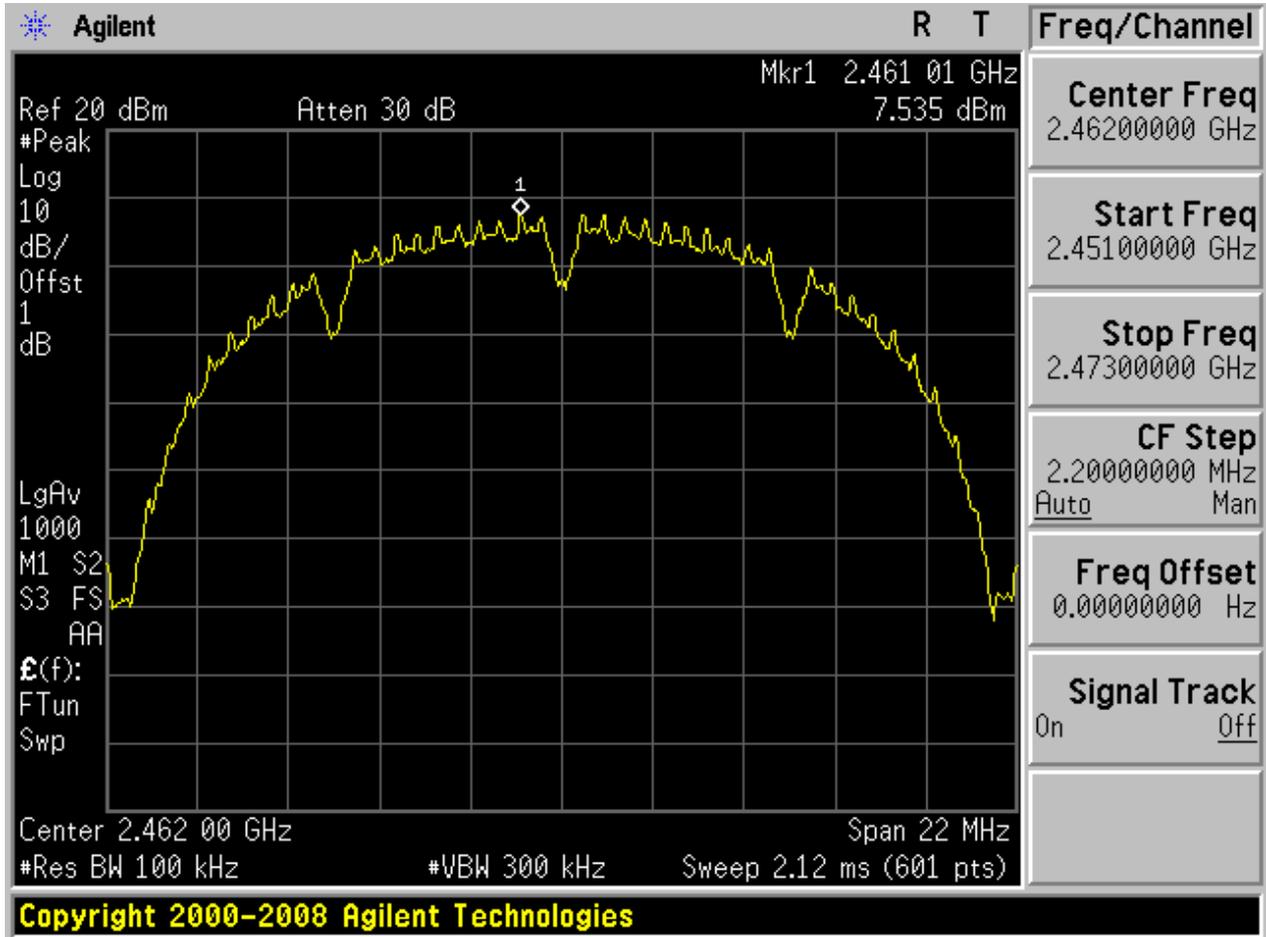






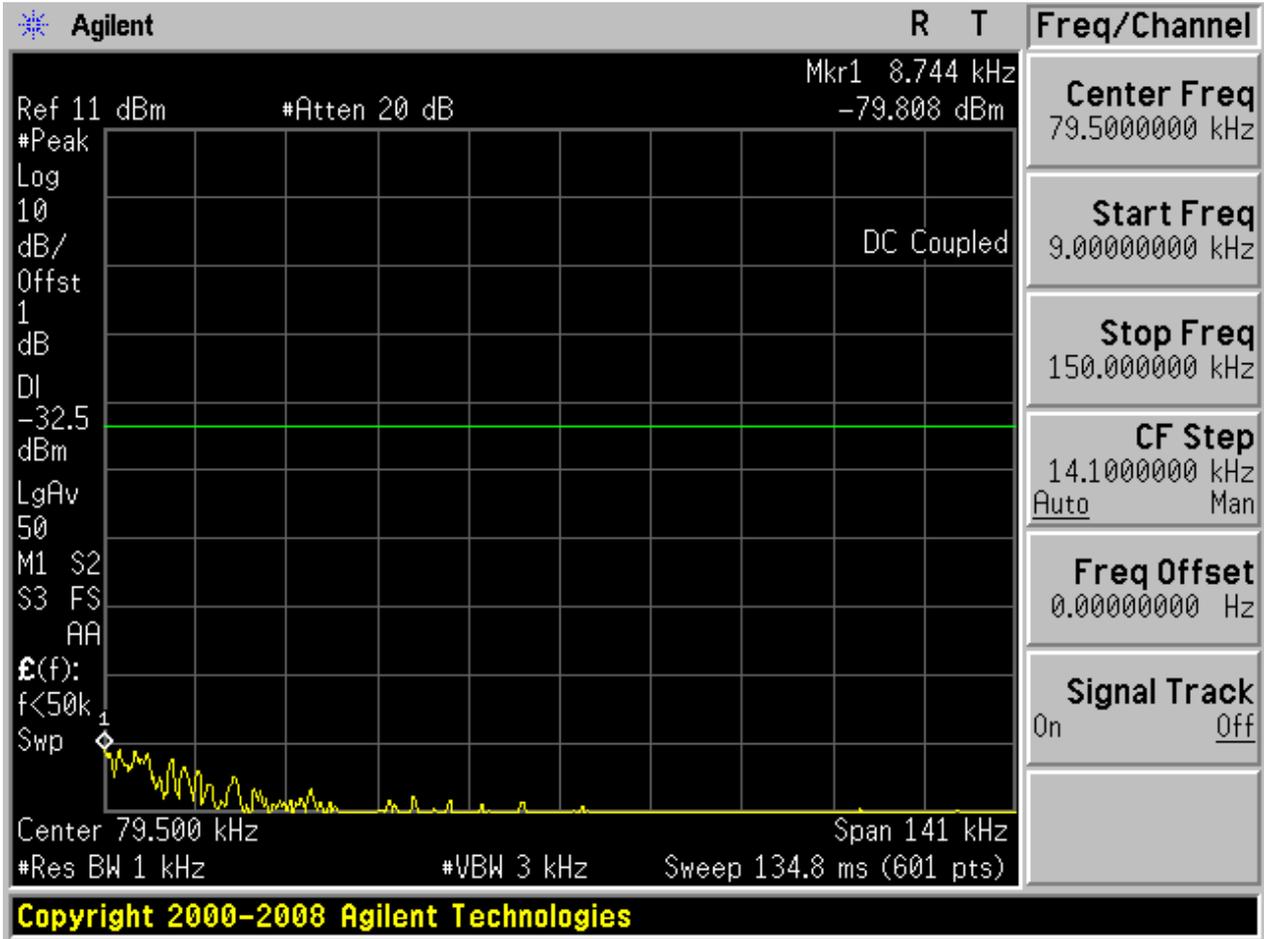
2.5 11B_H@Ant 1

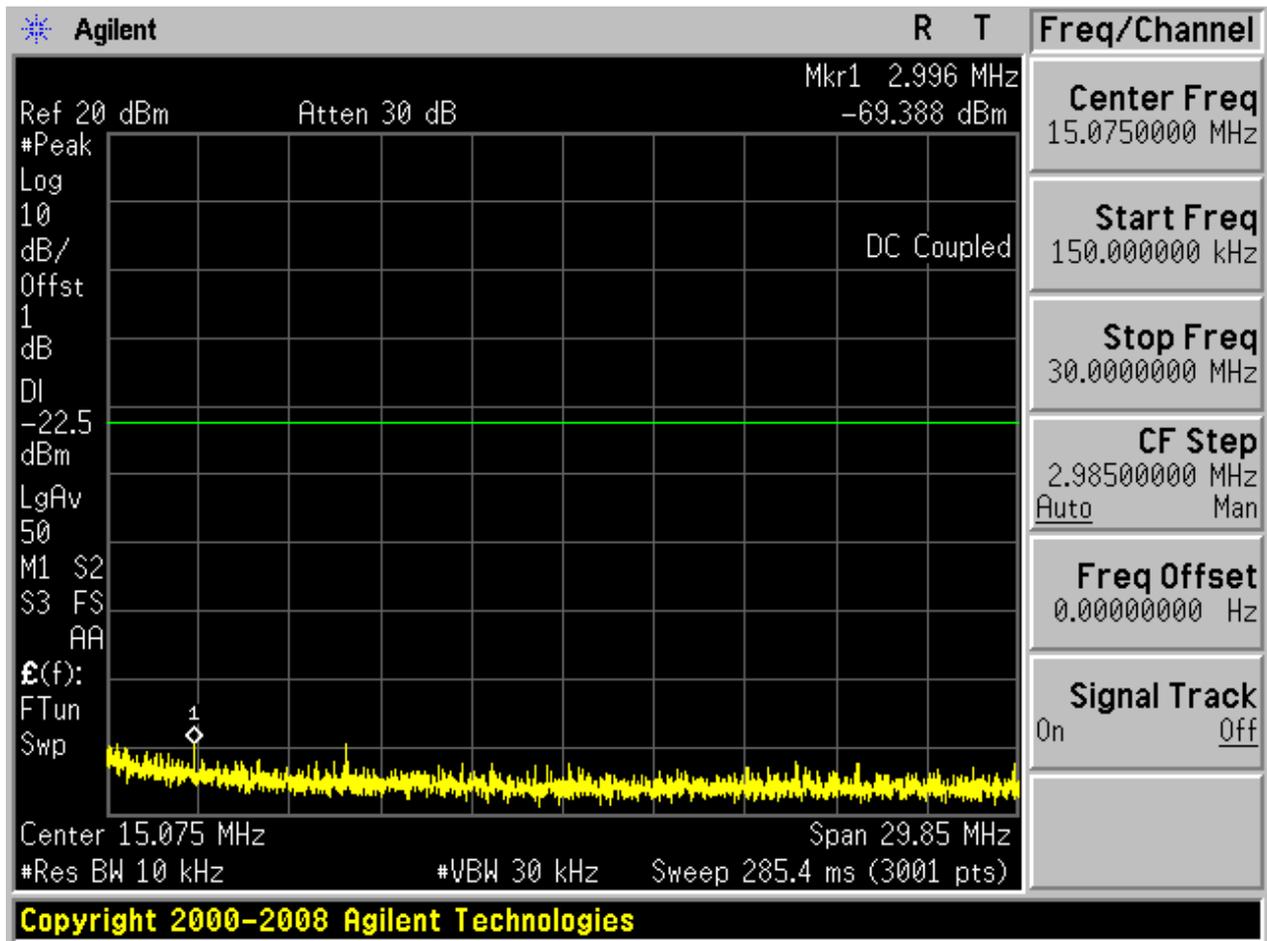
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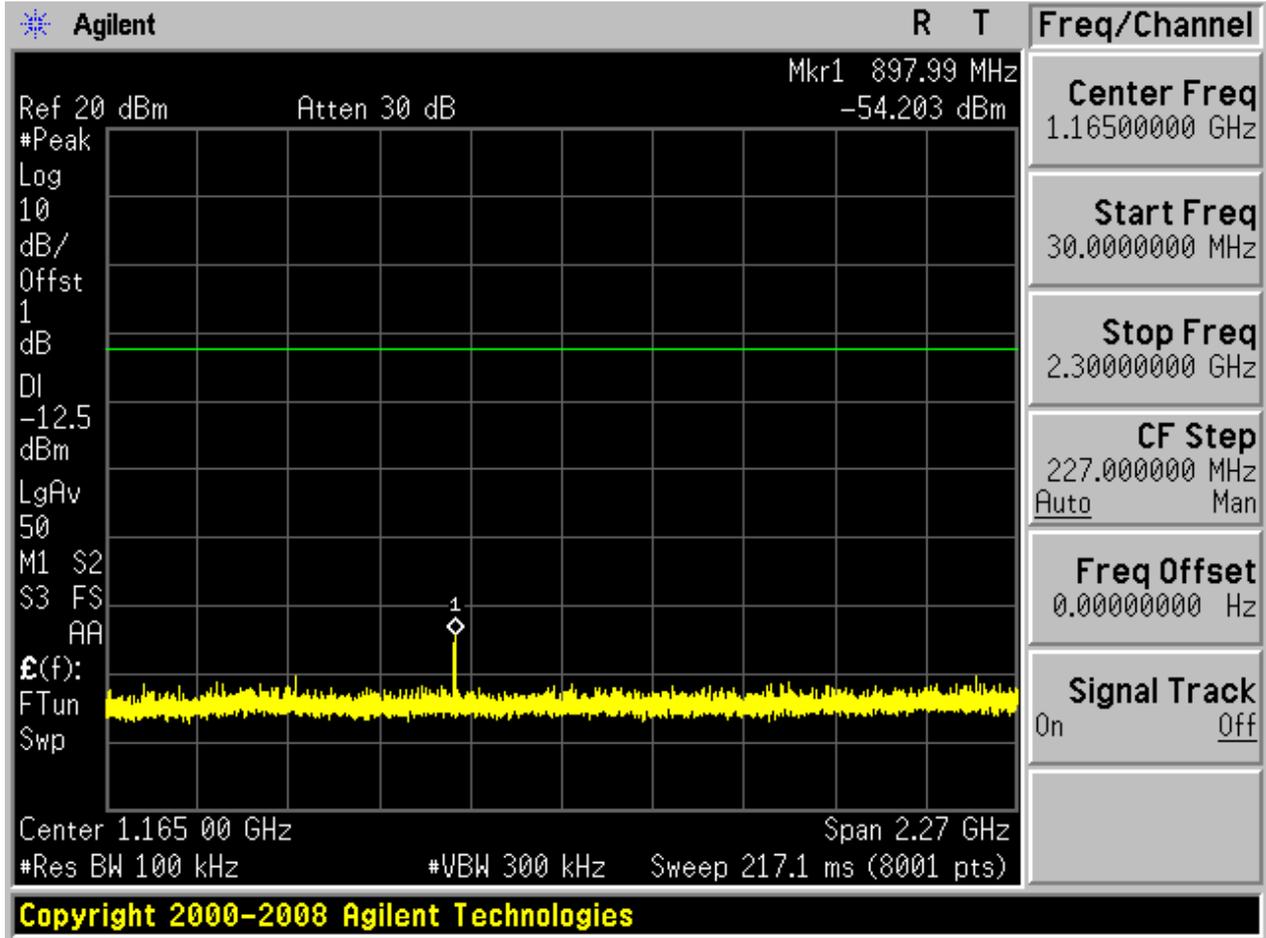


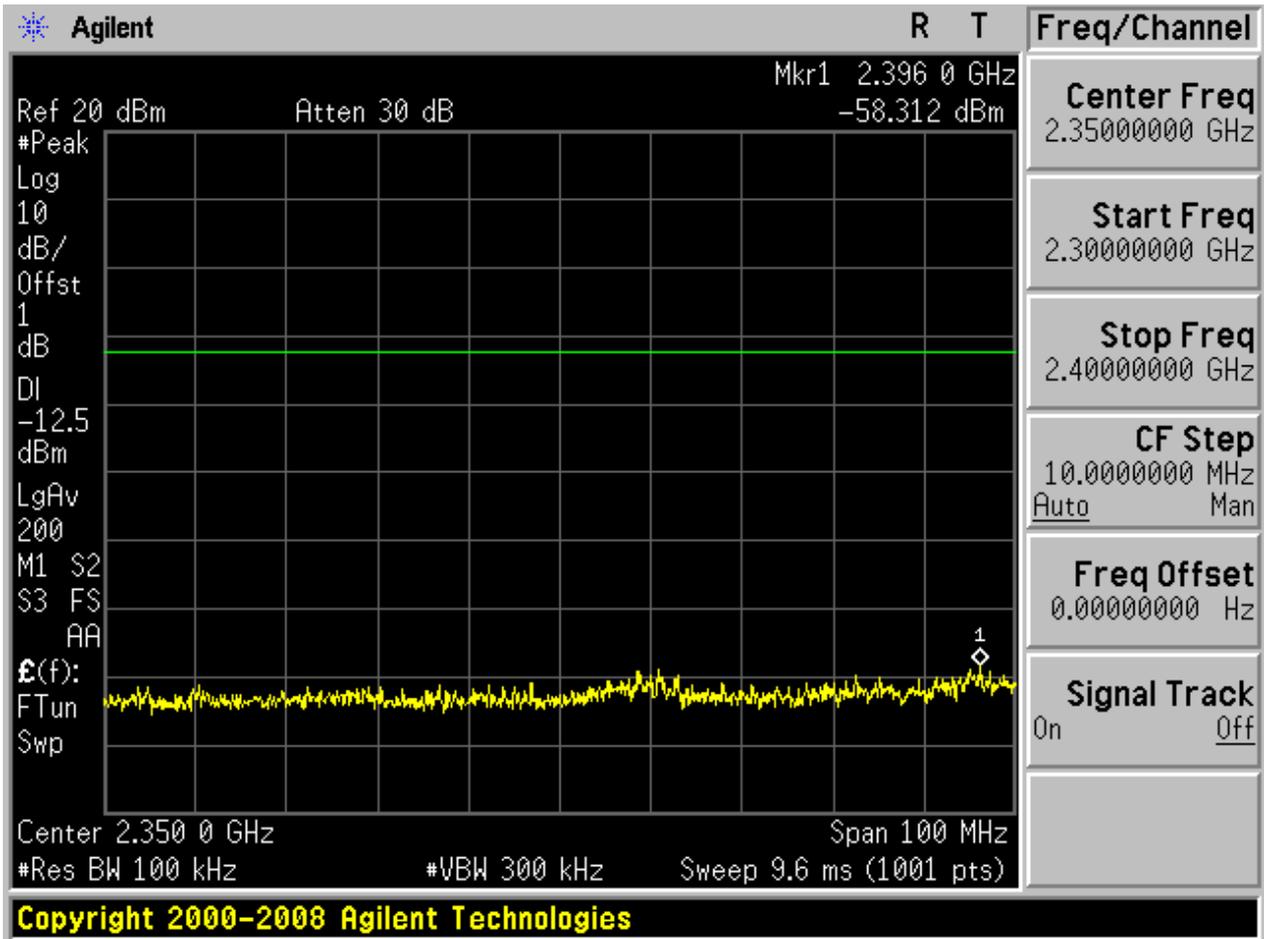


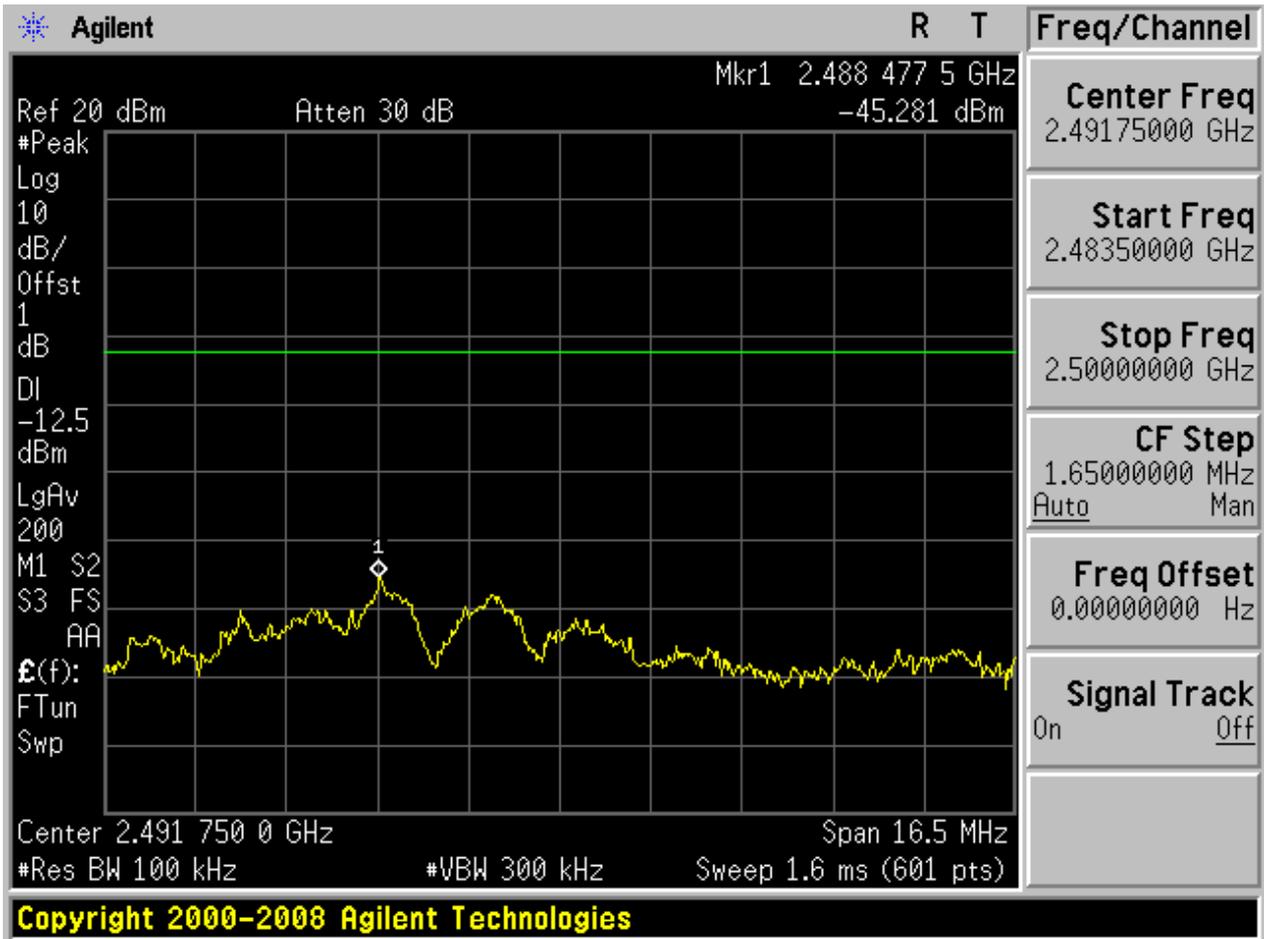
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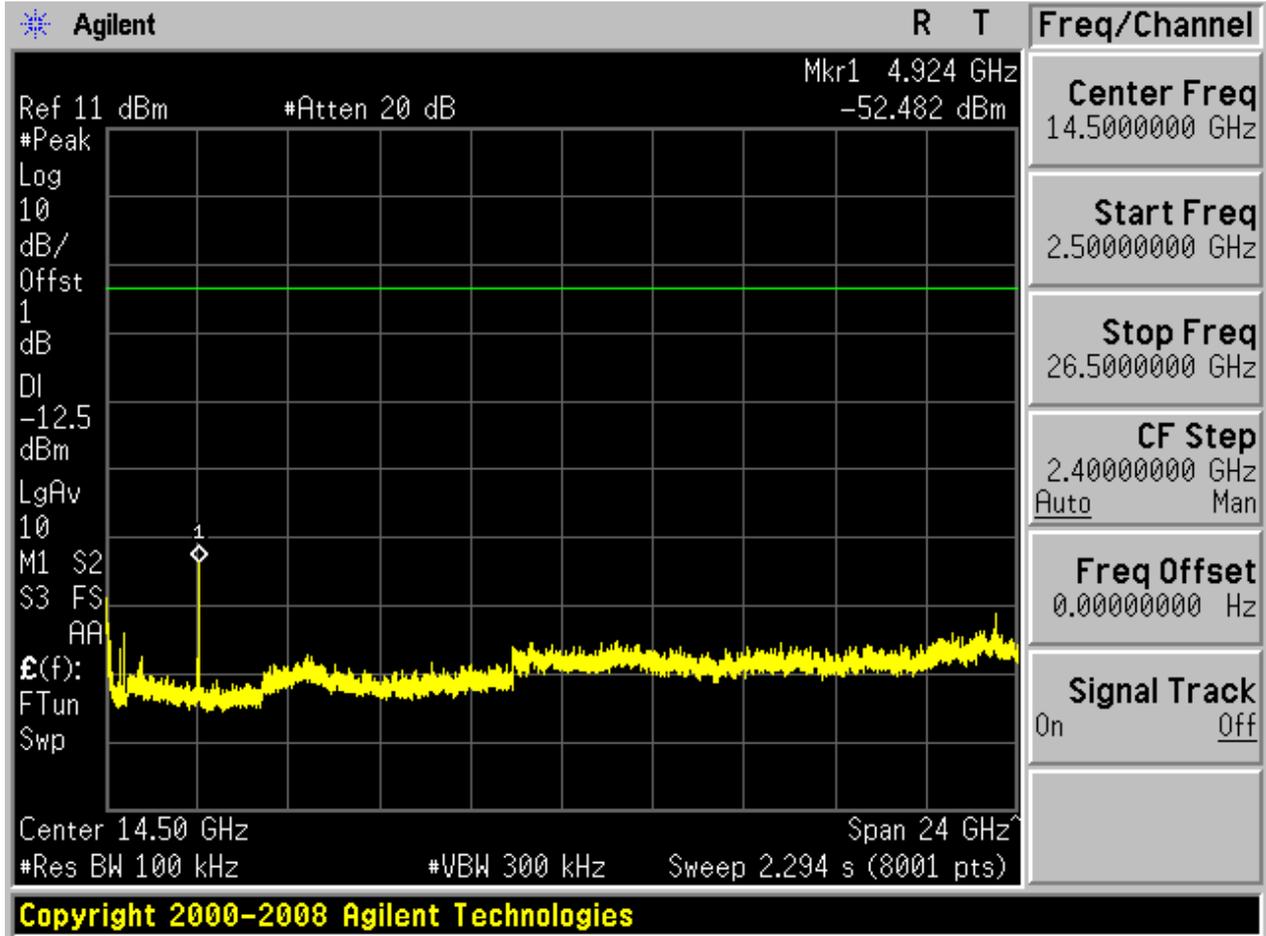








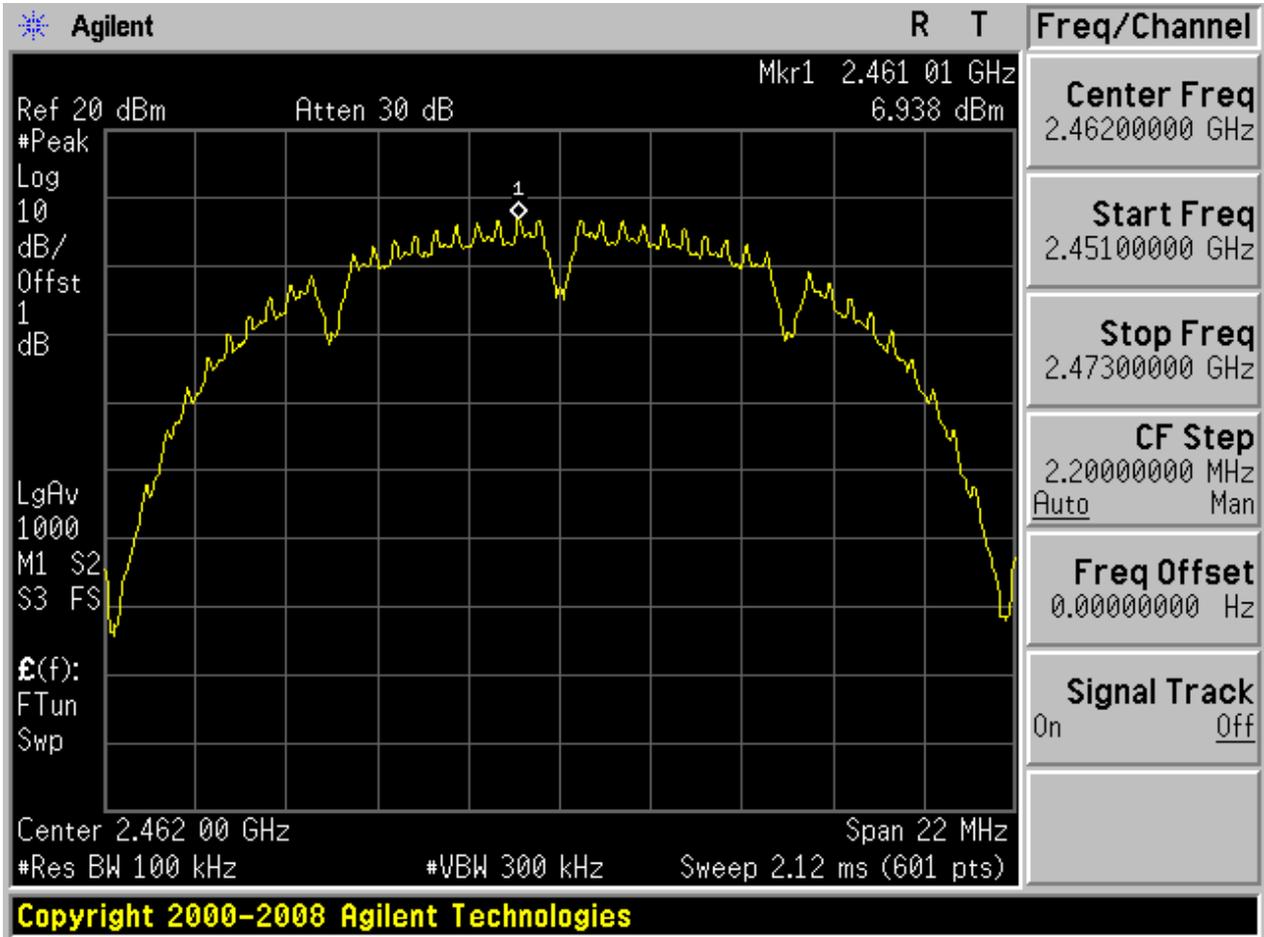






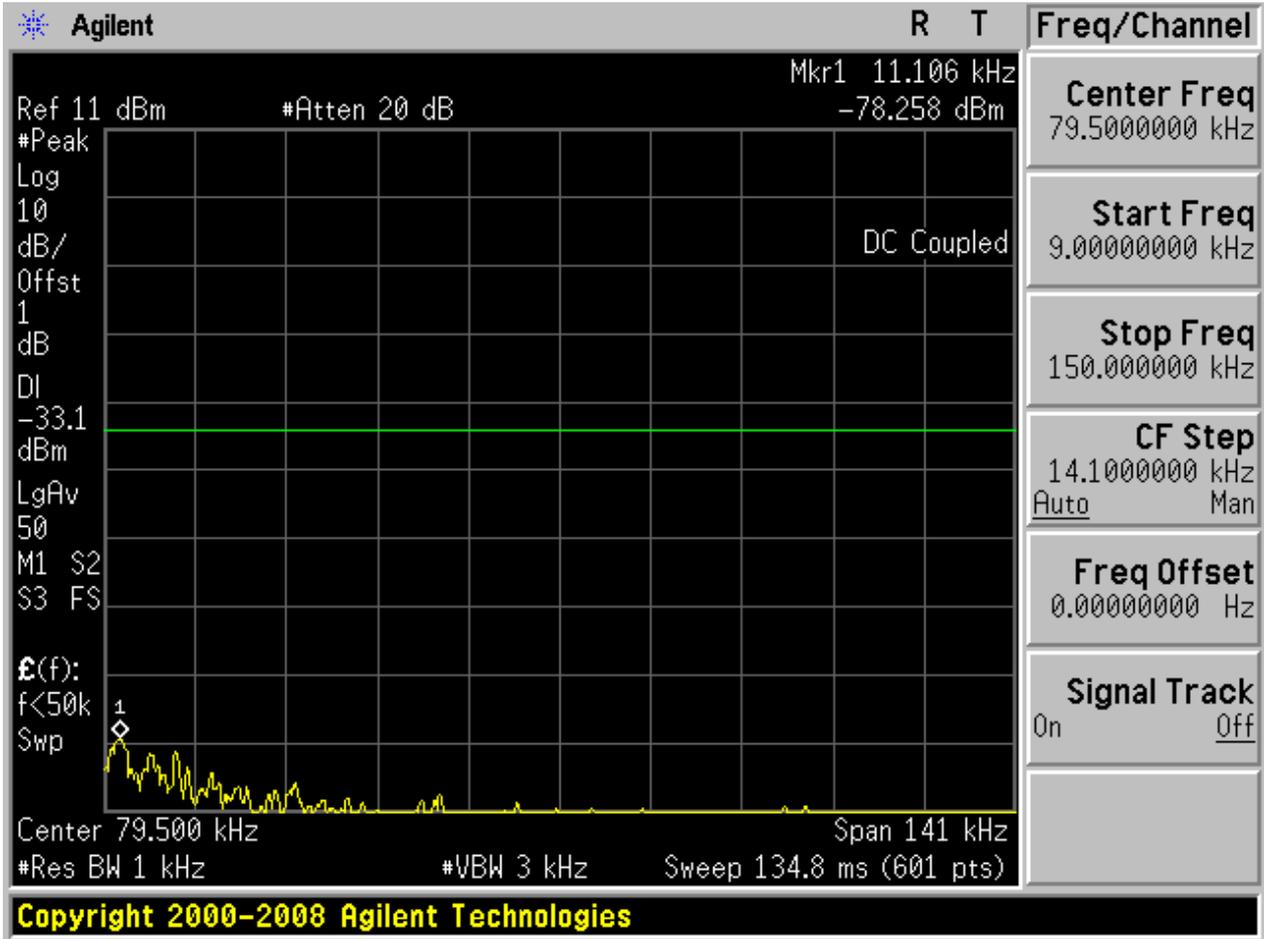
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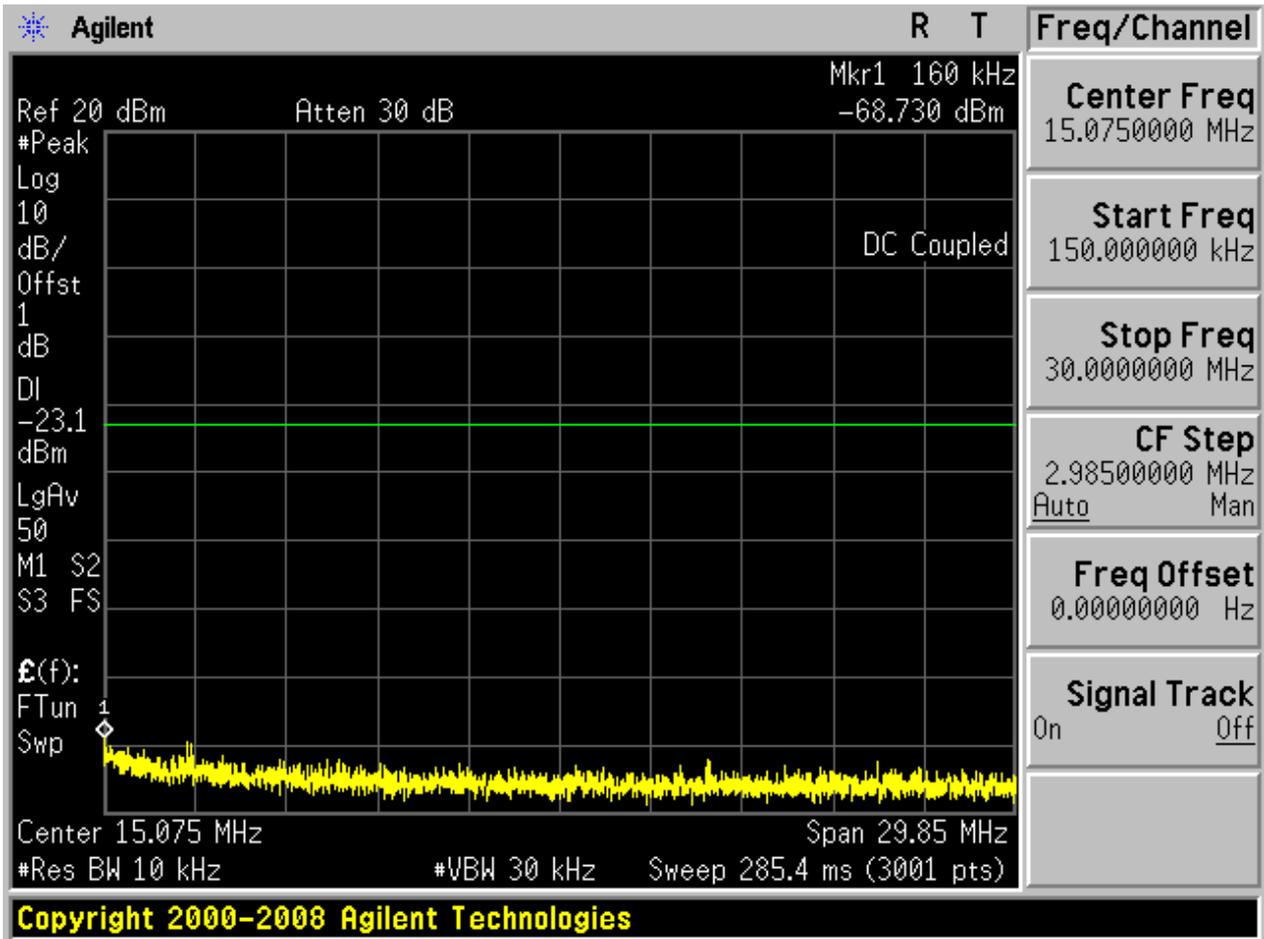
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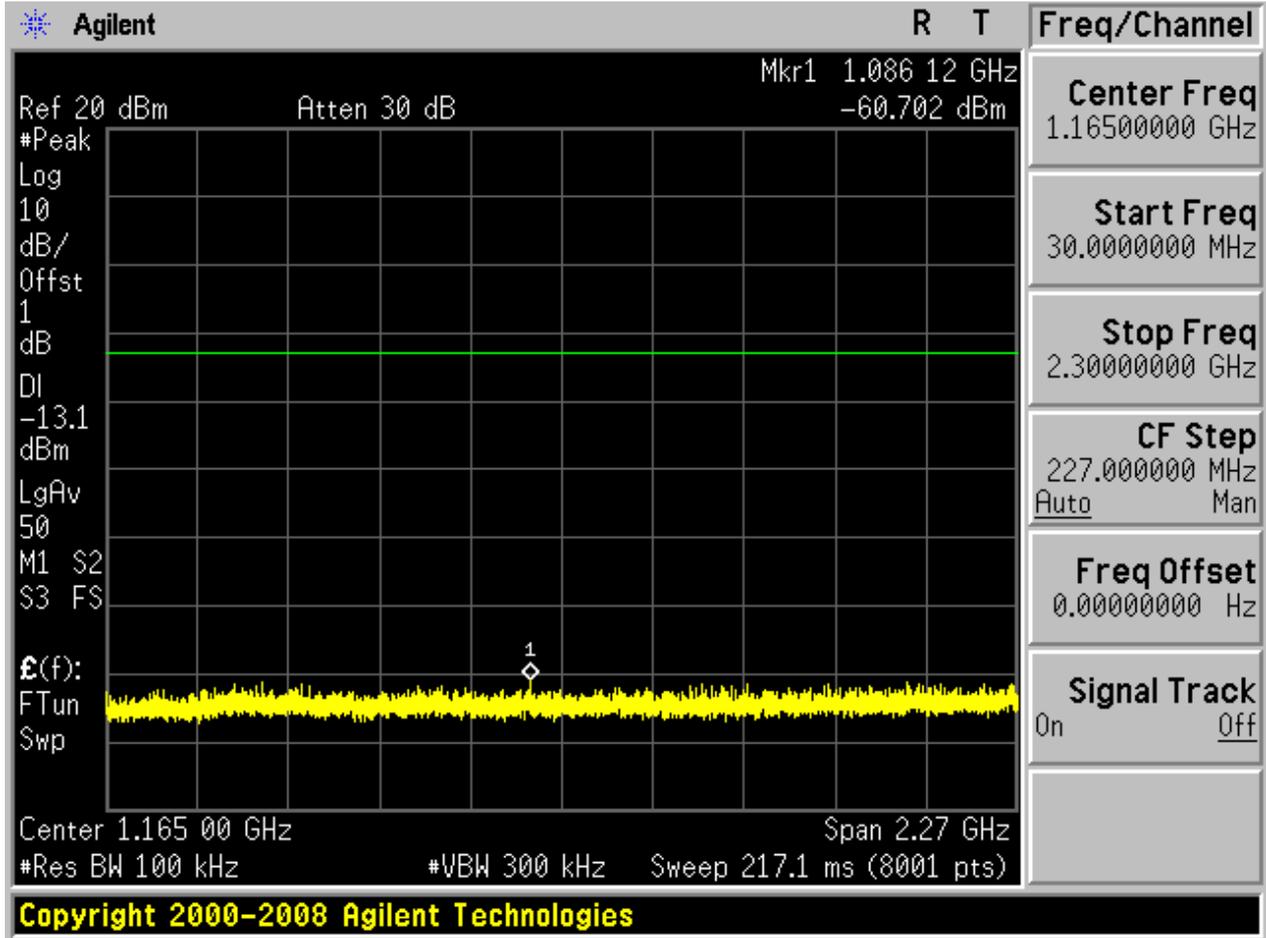


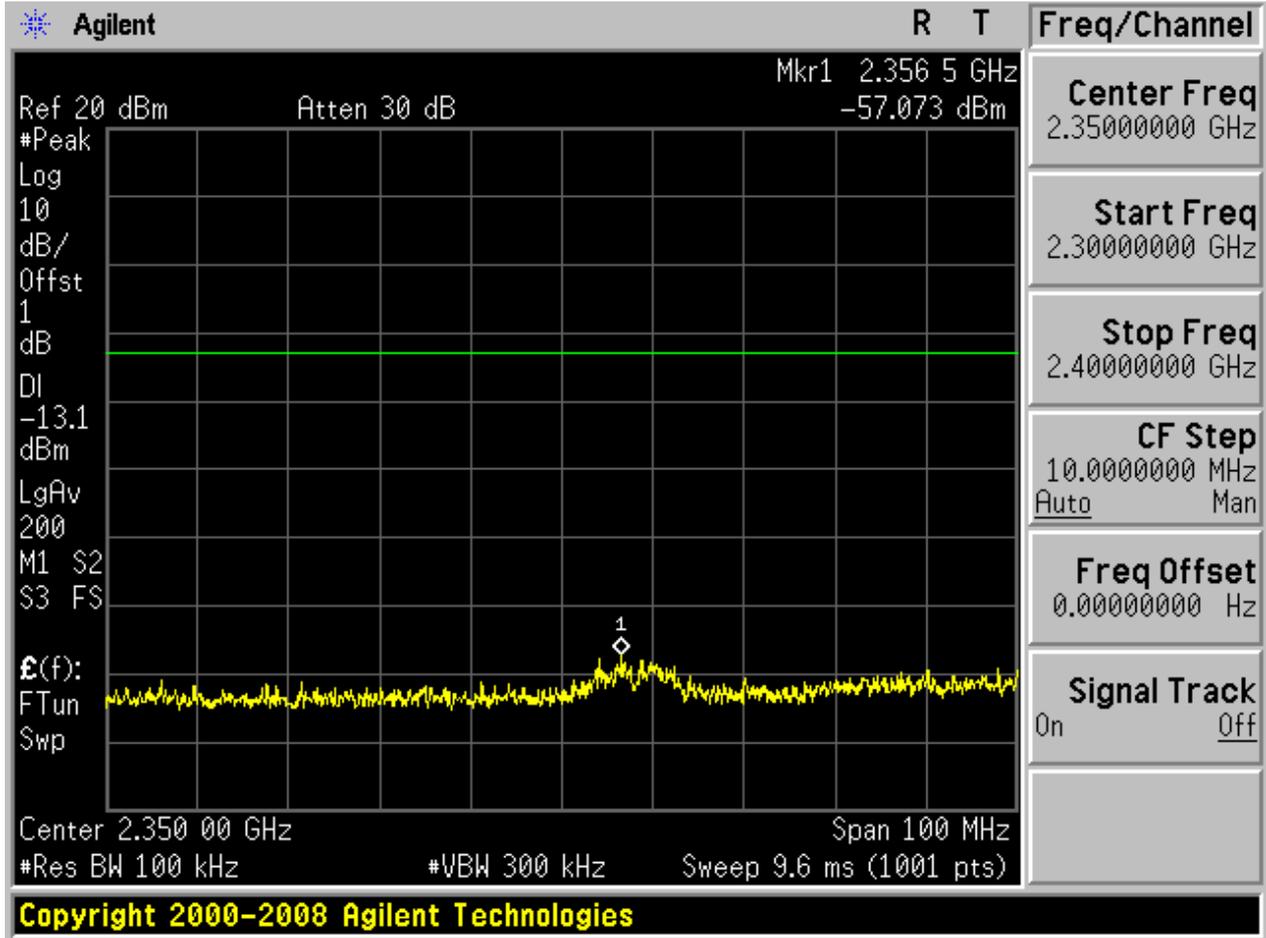


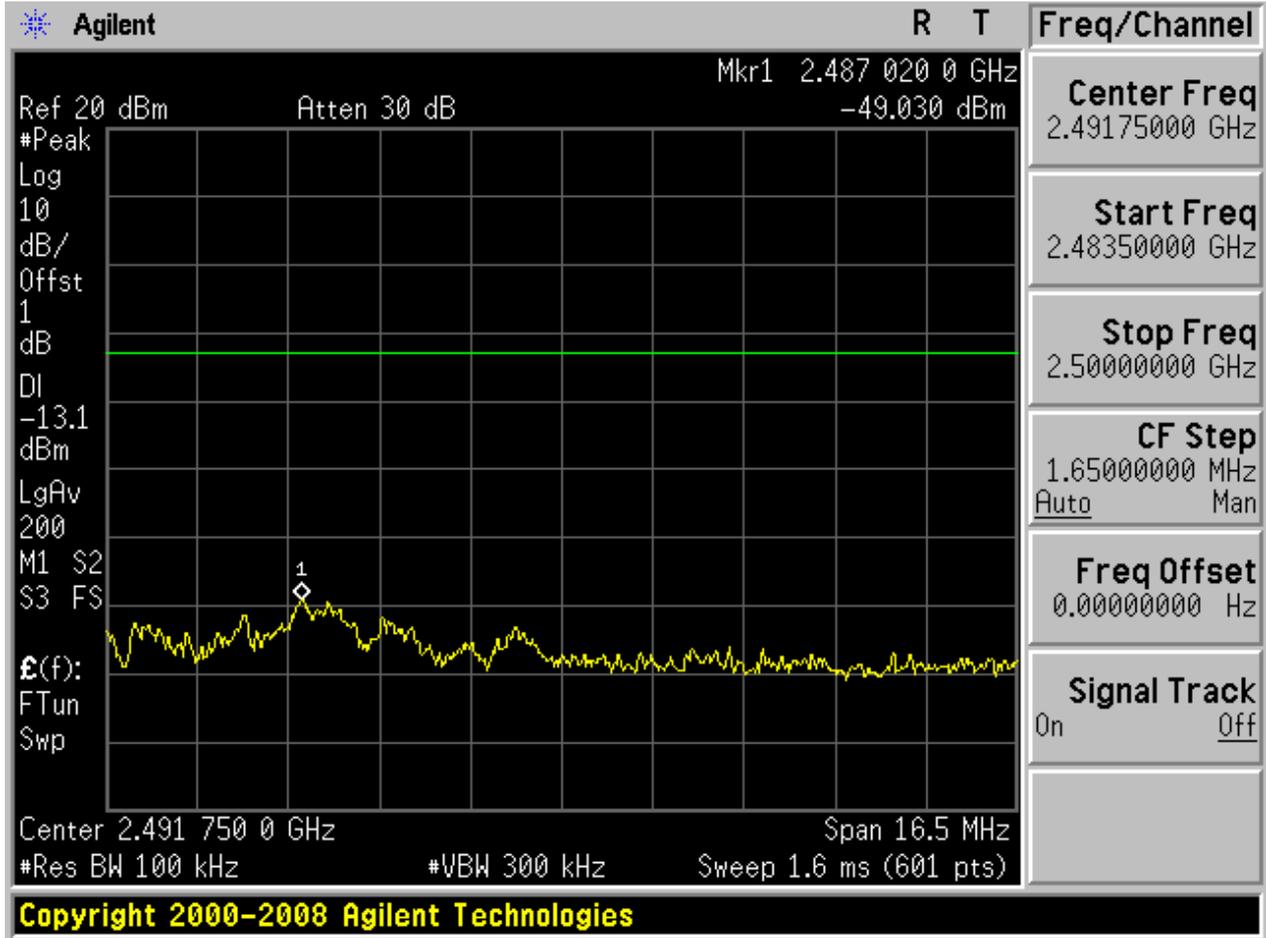
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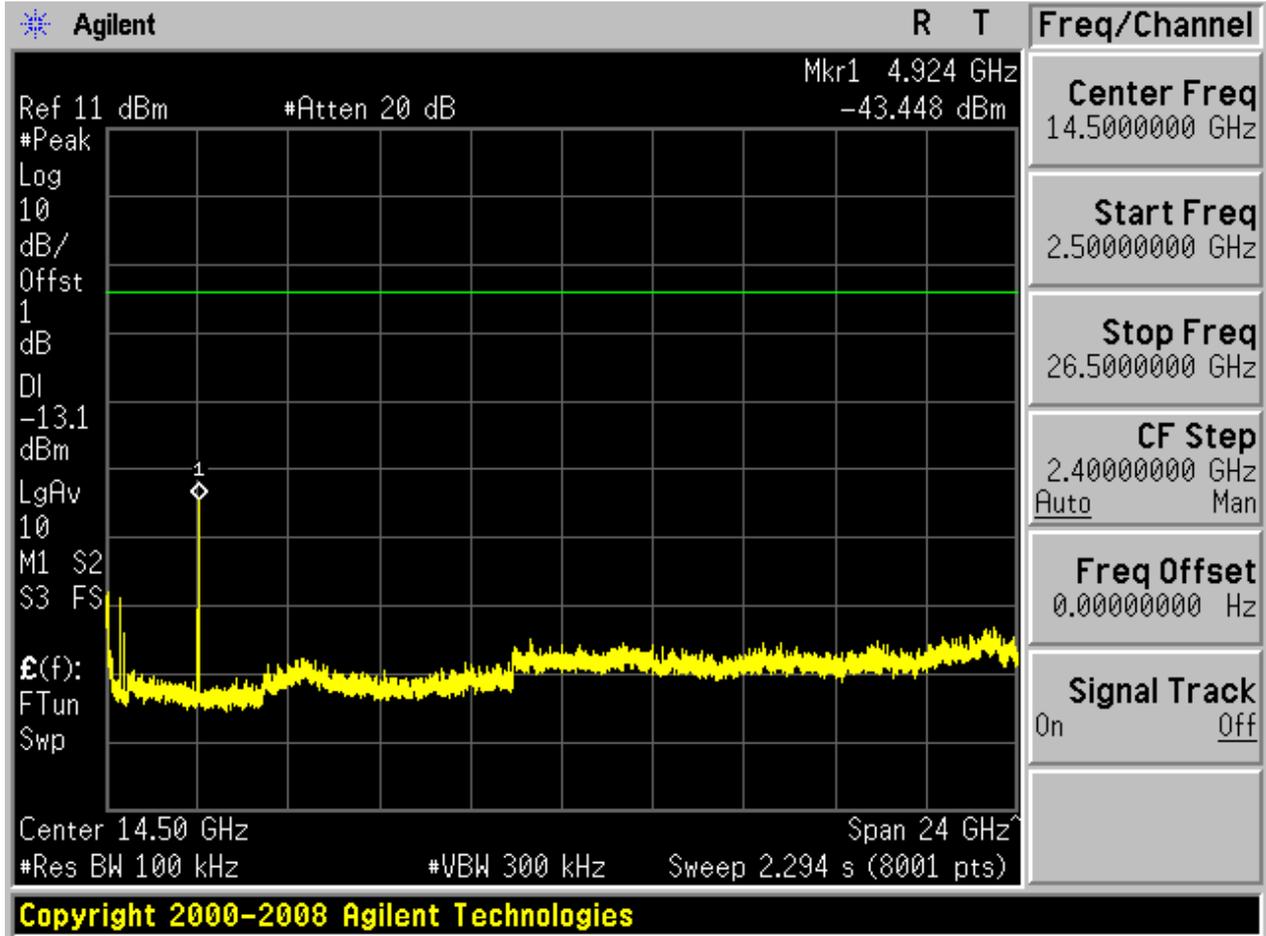








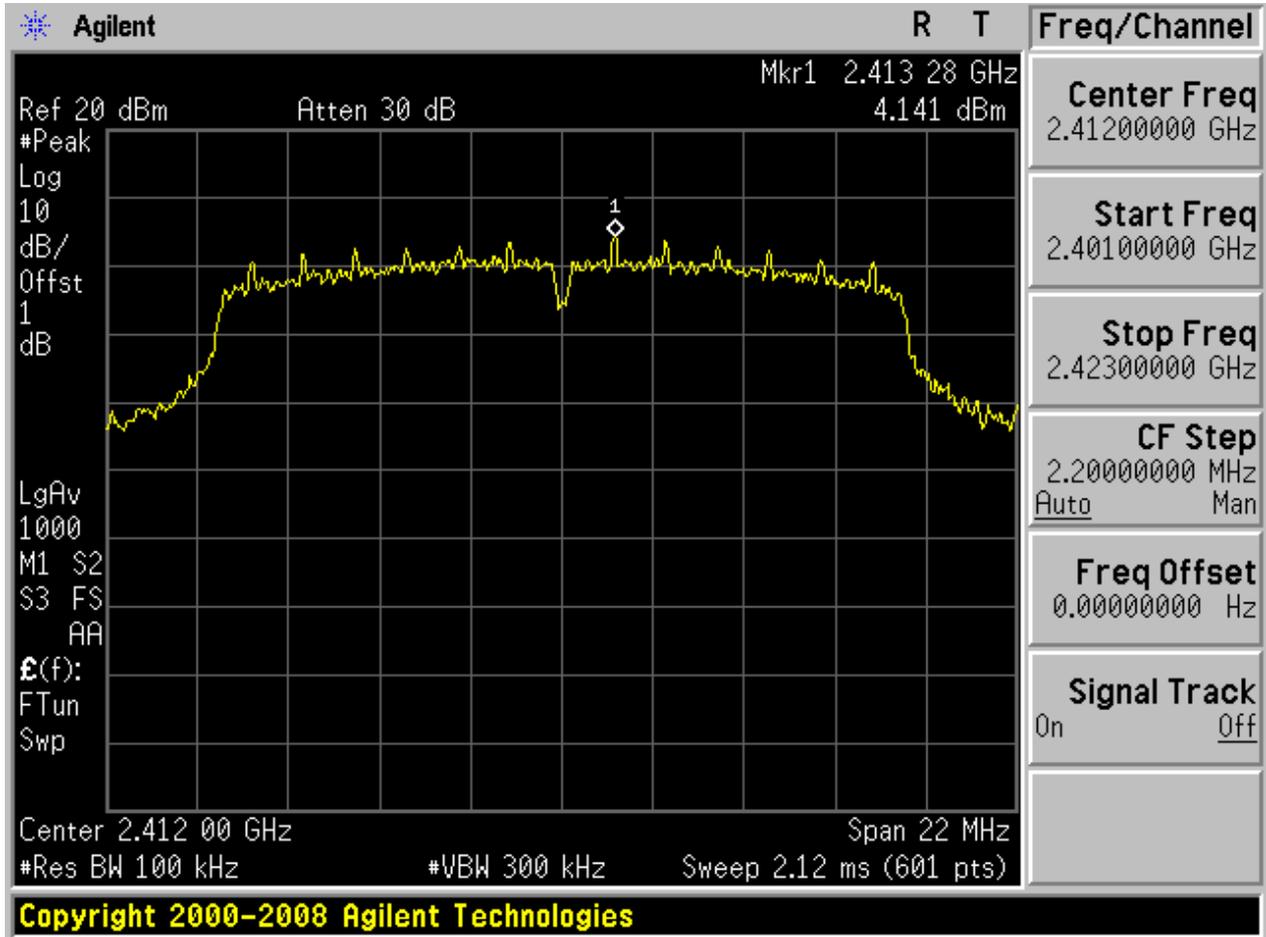






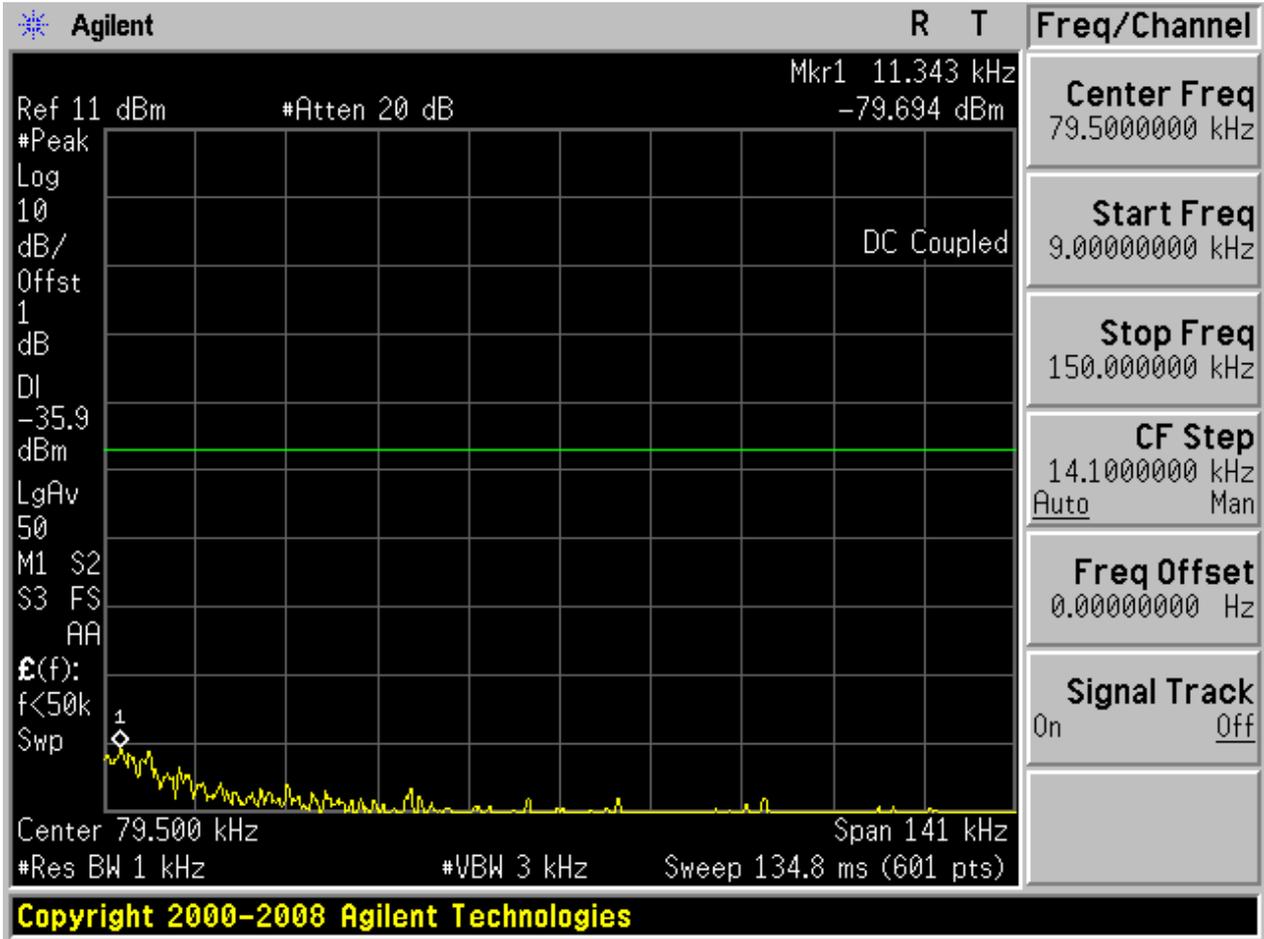
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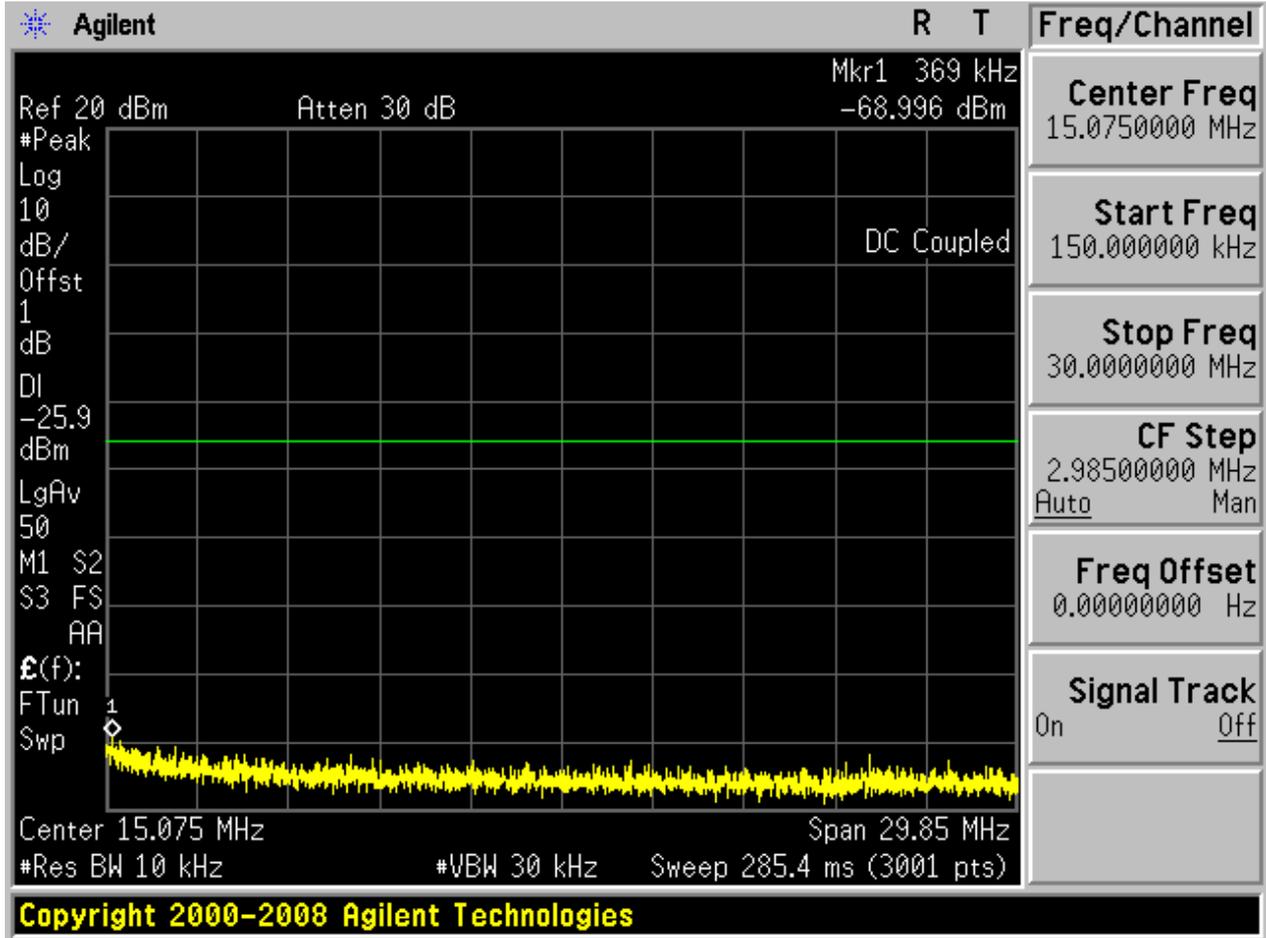
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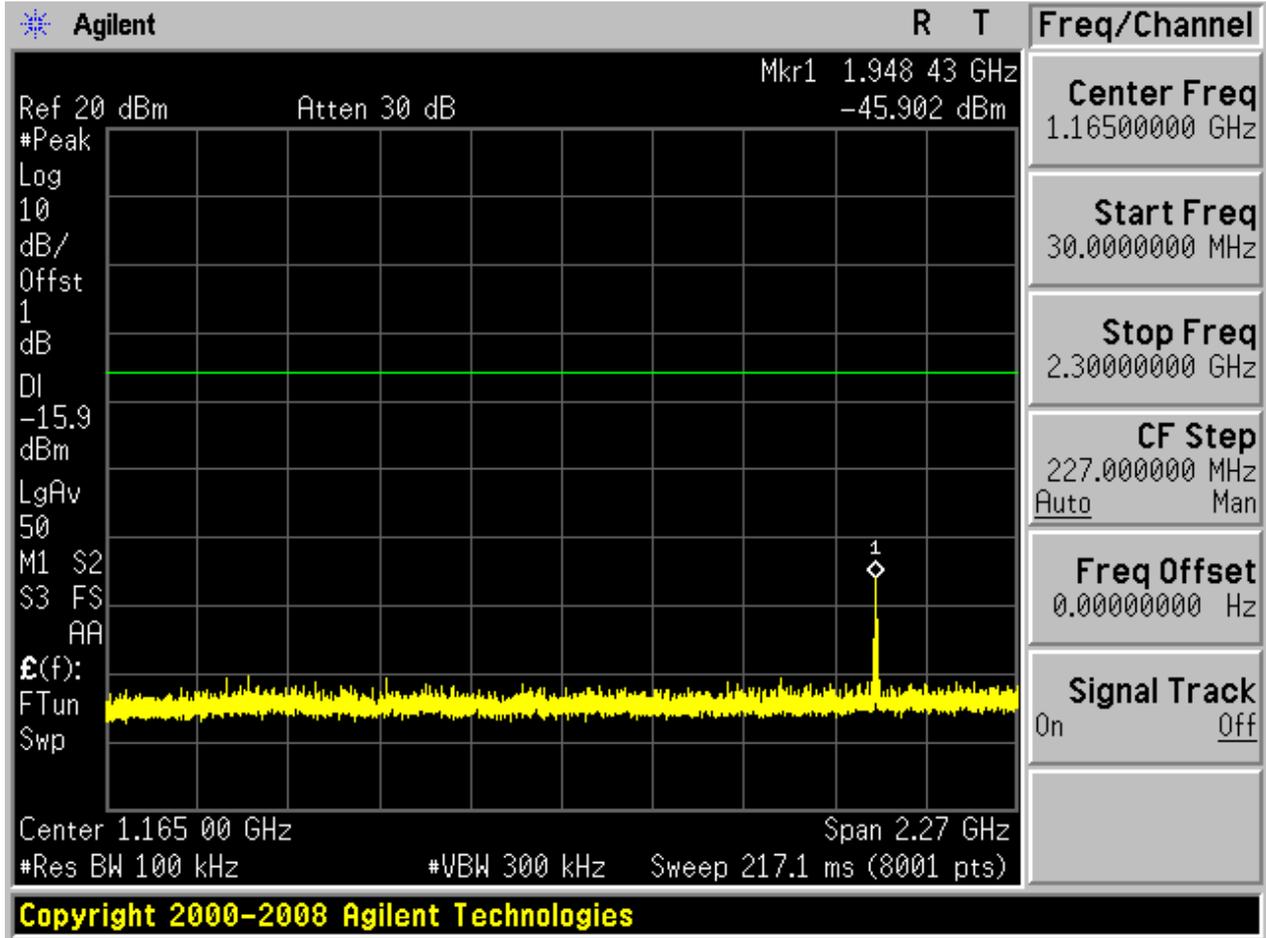


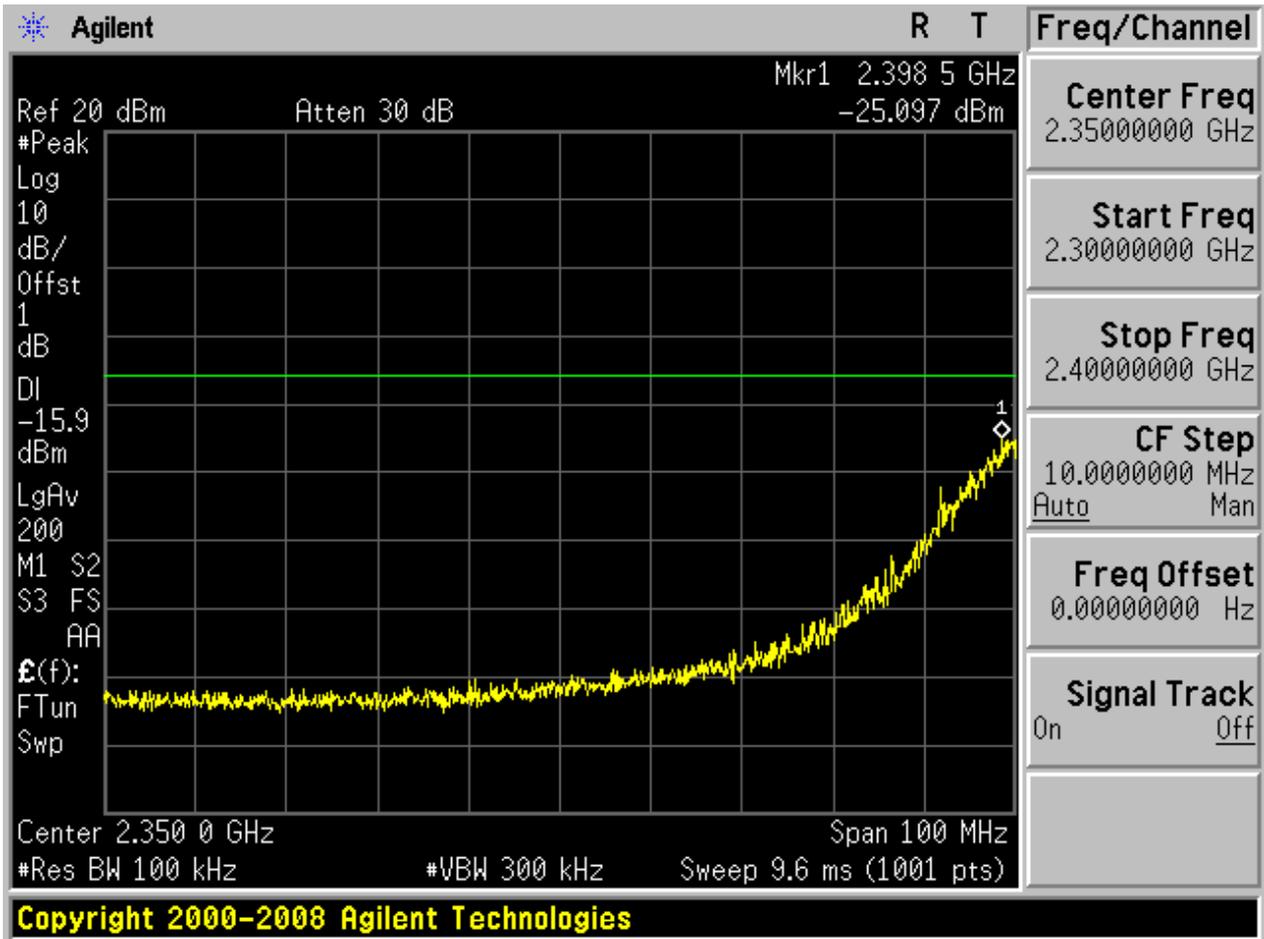


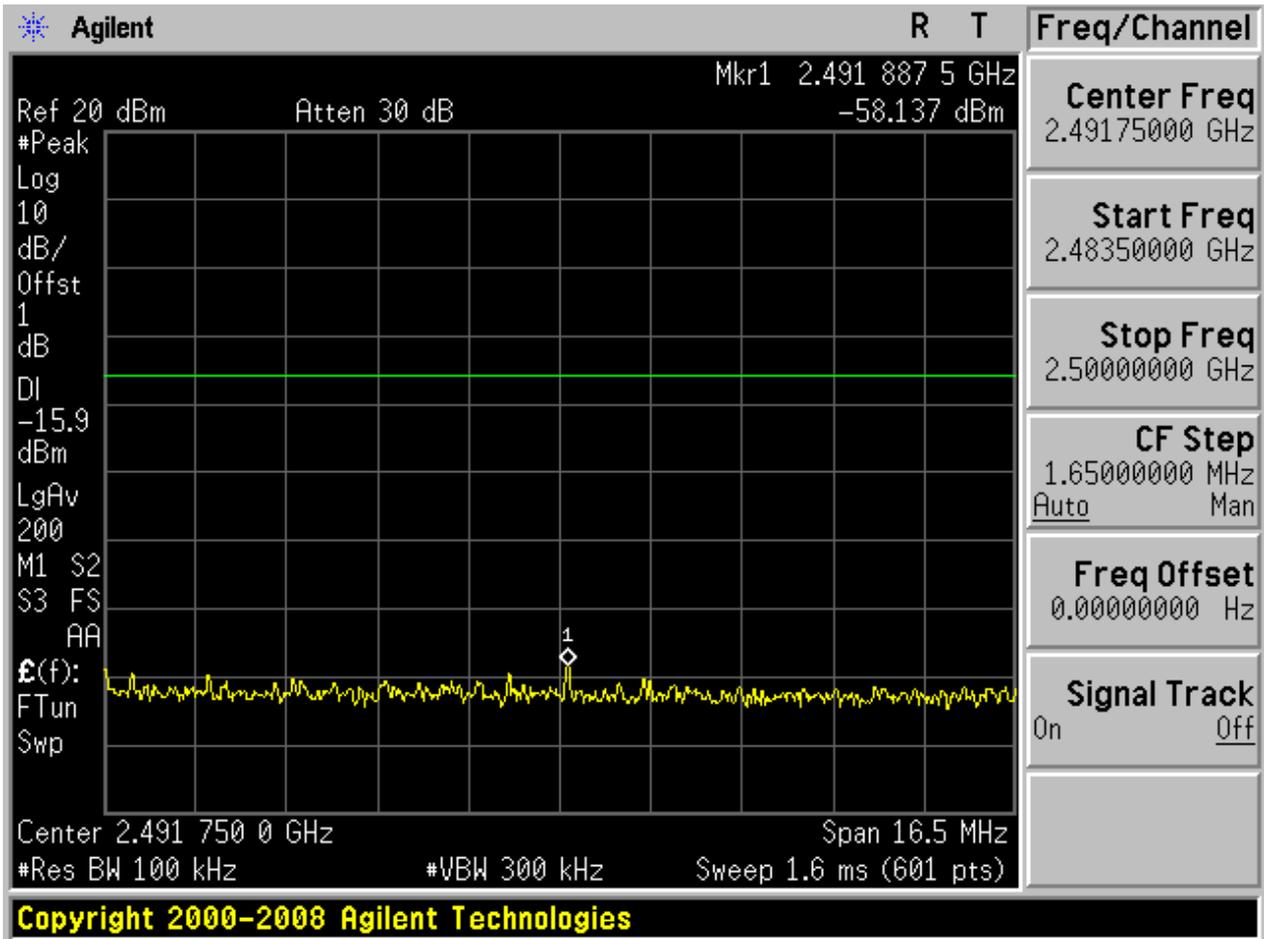
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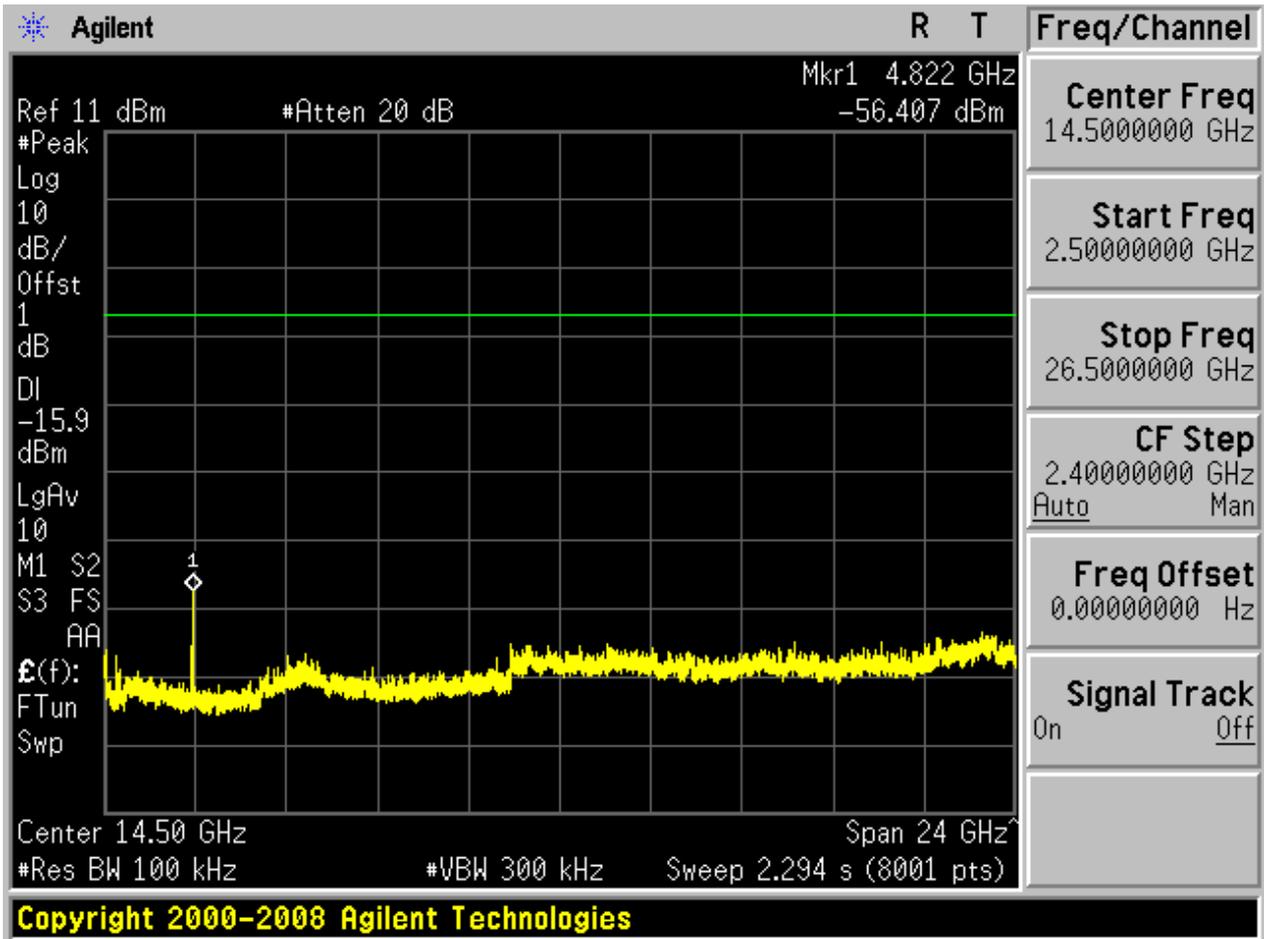








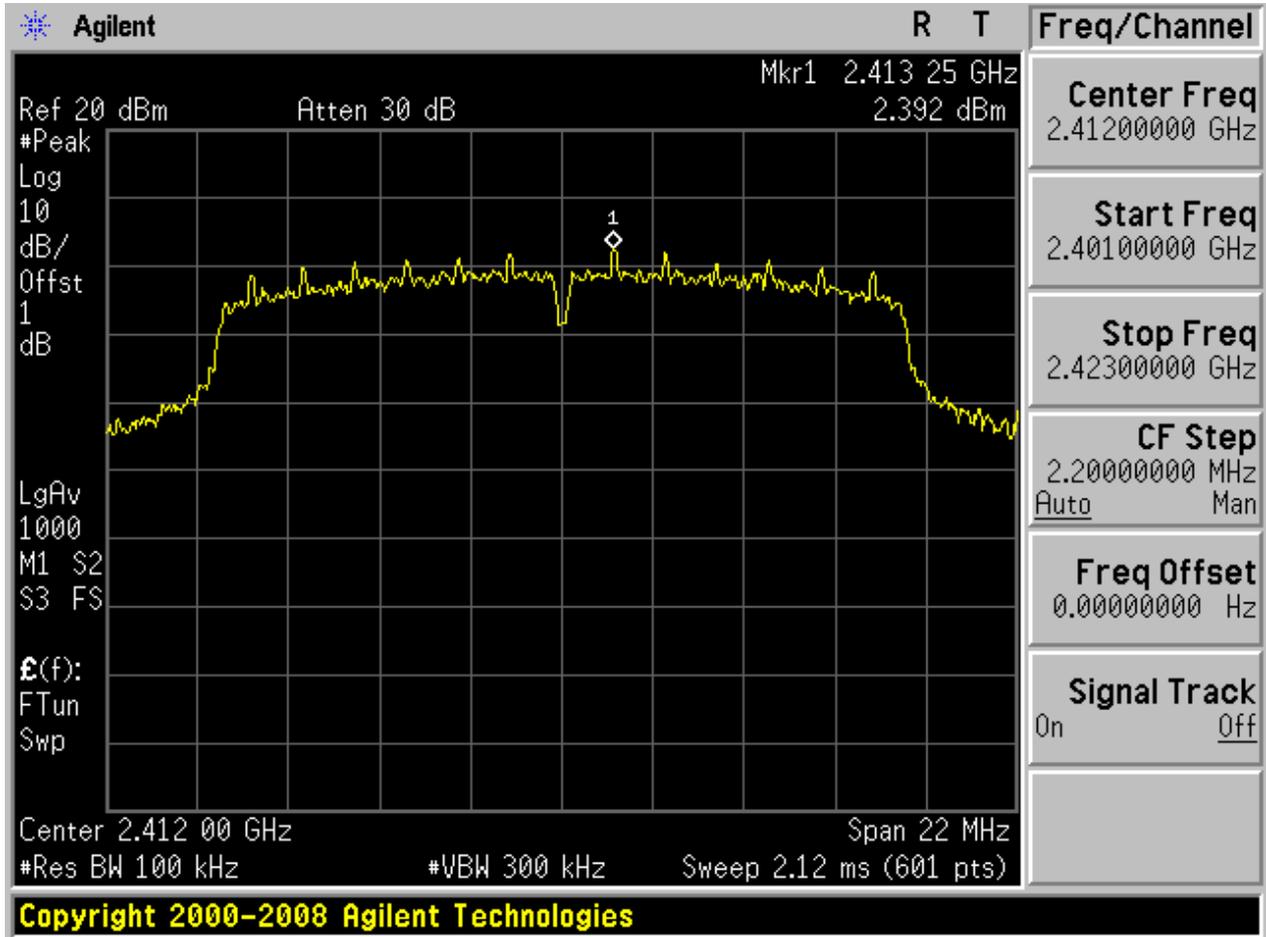






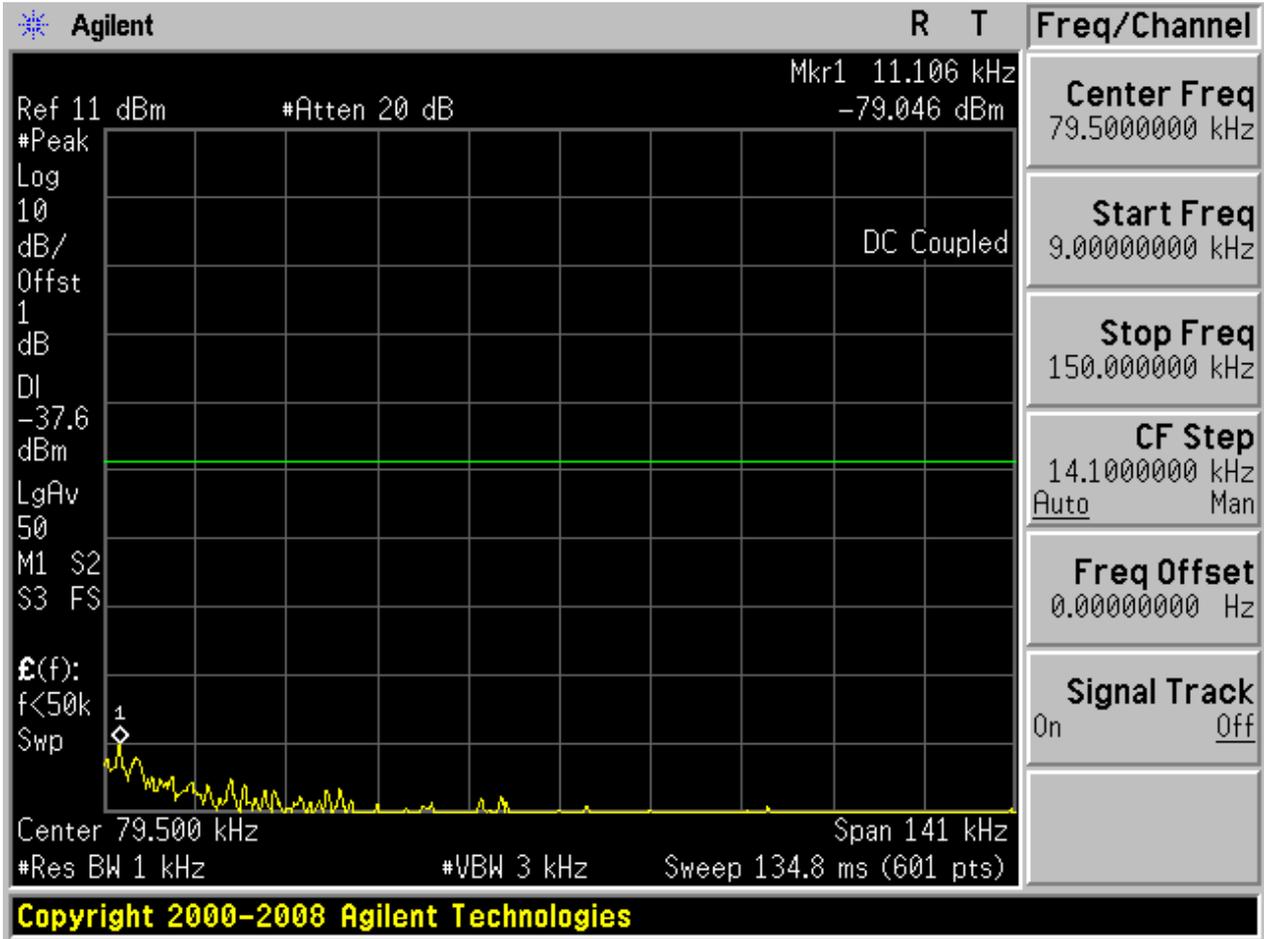
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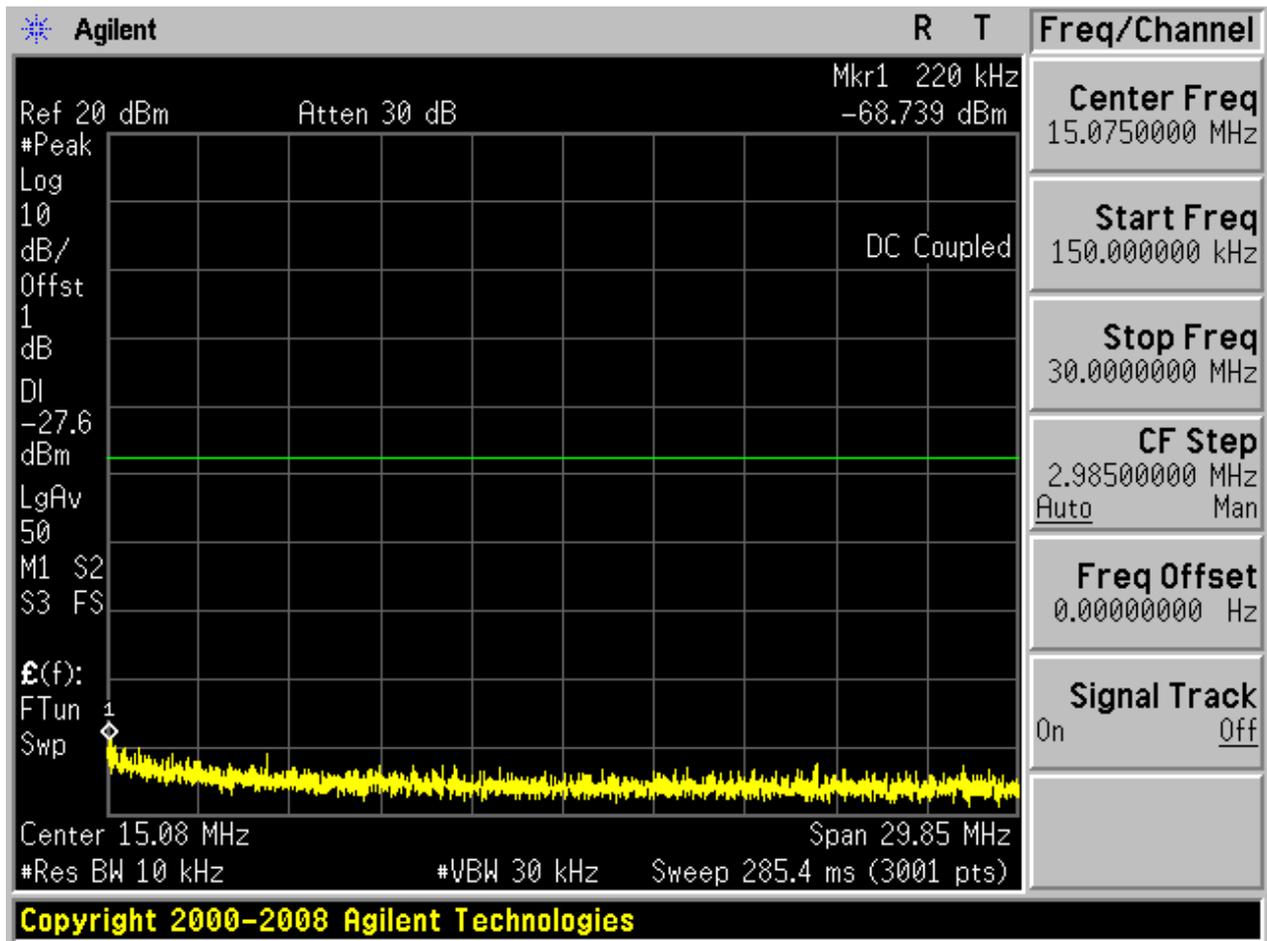
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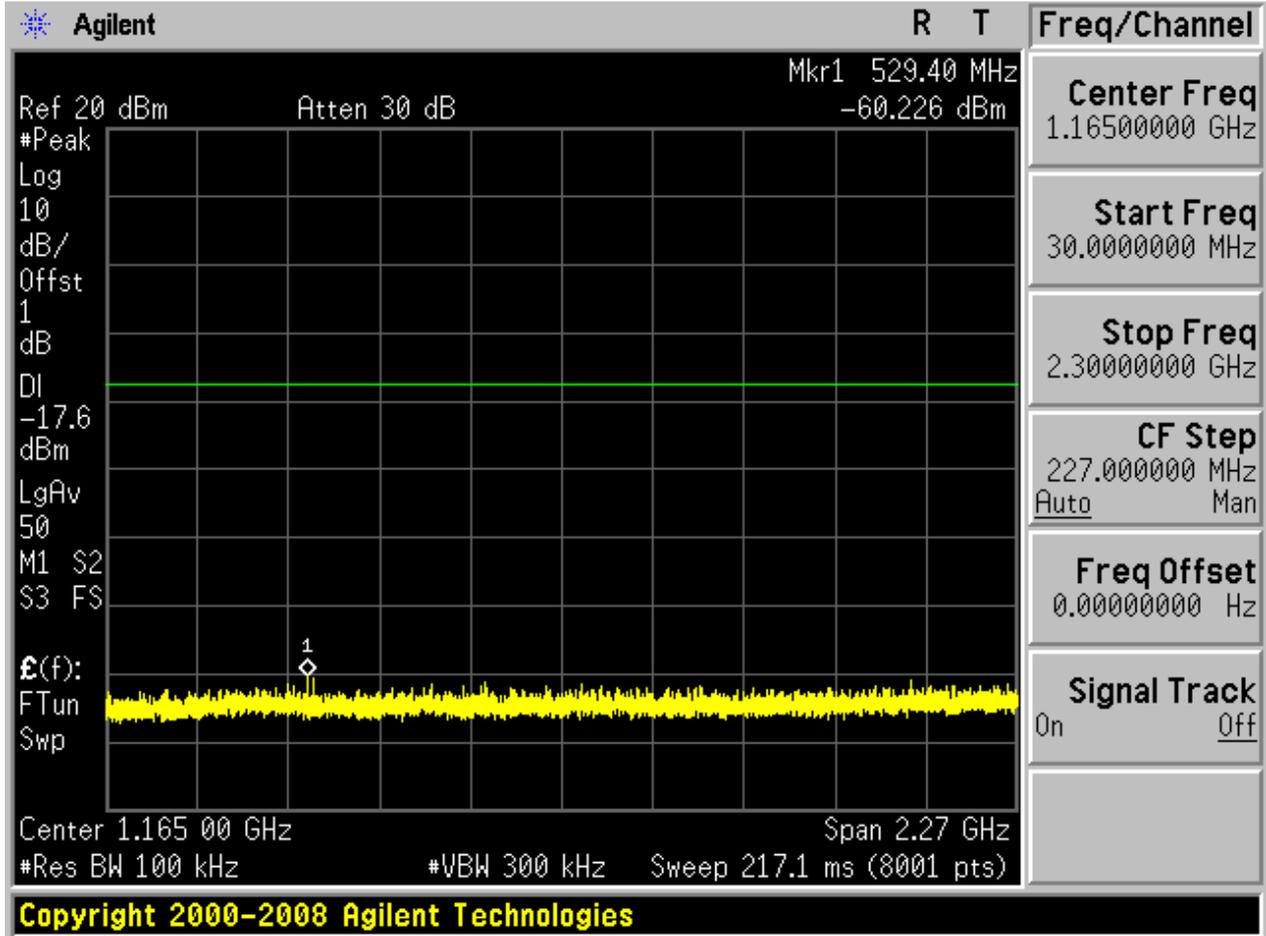


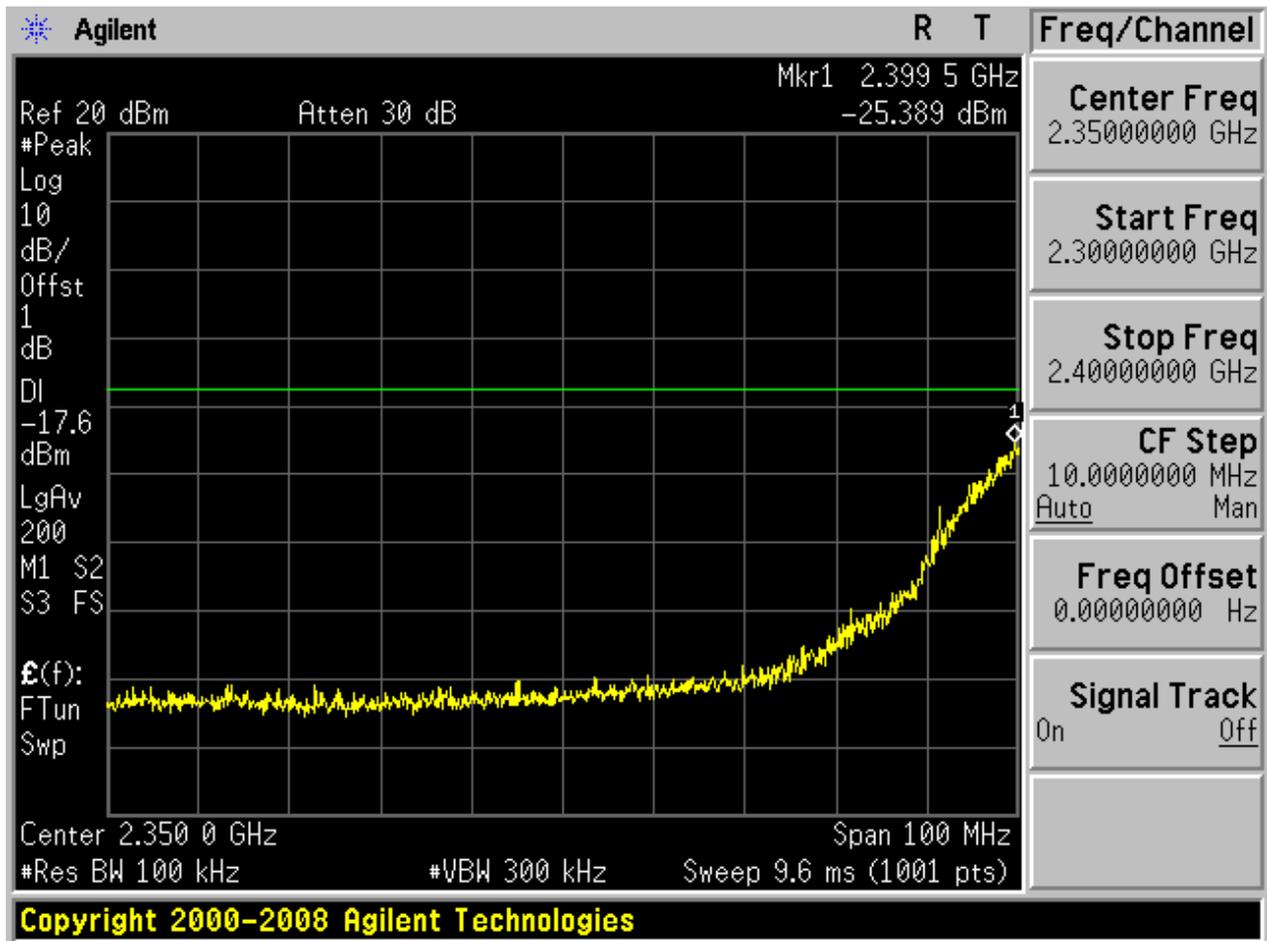


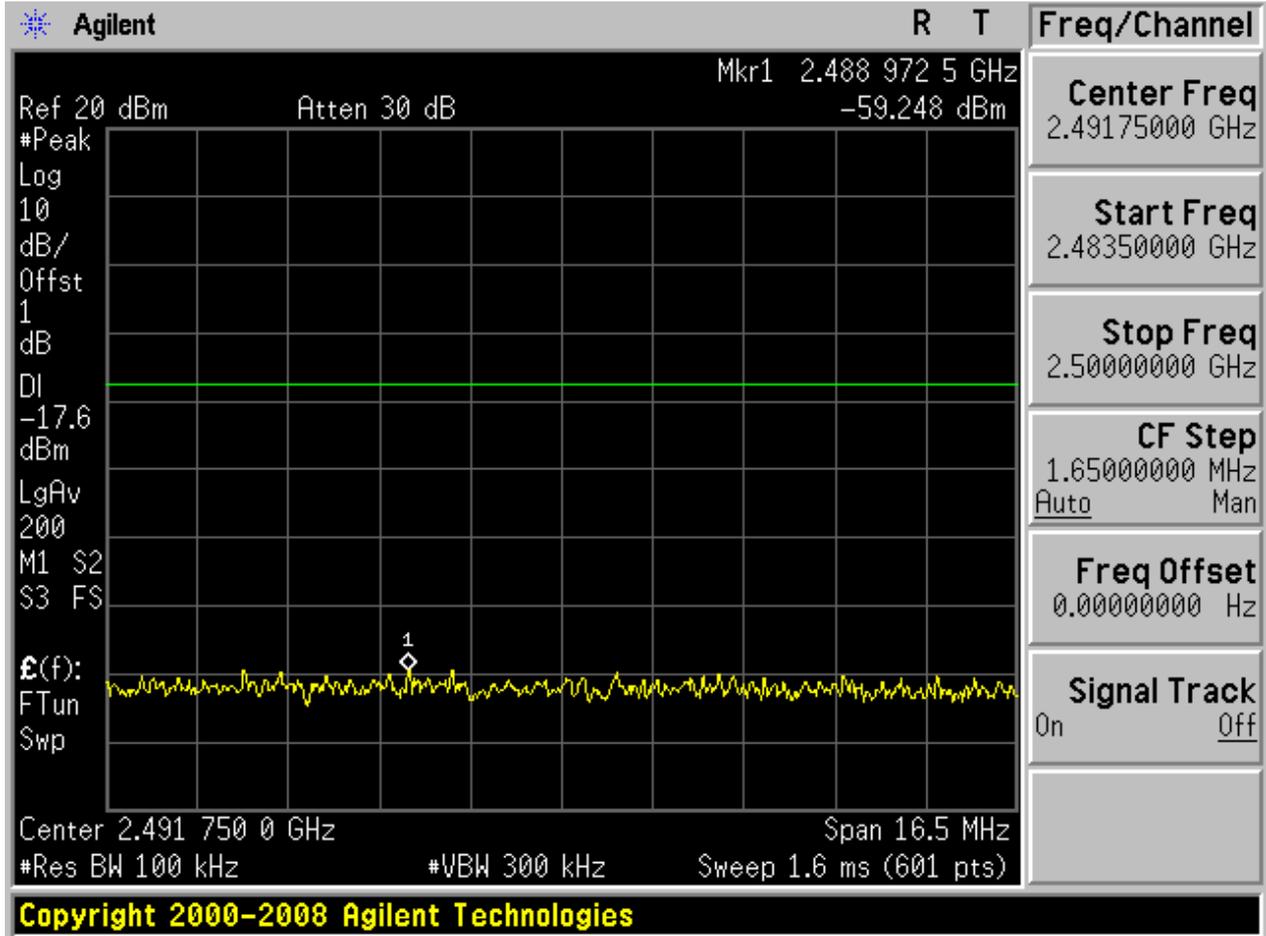
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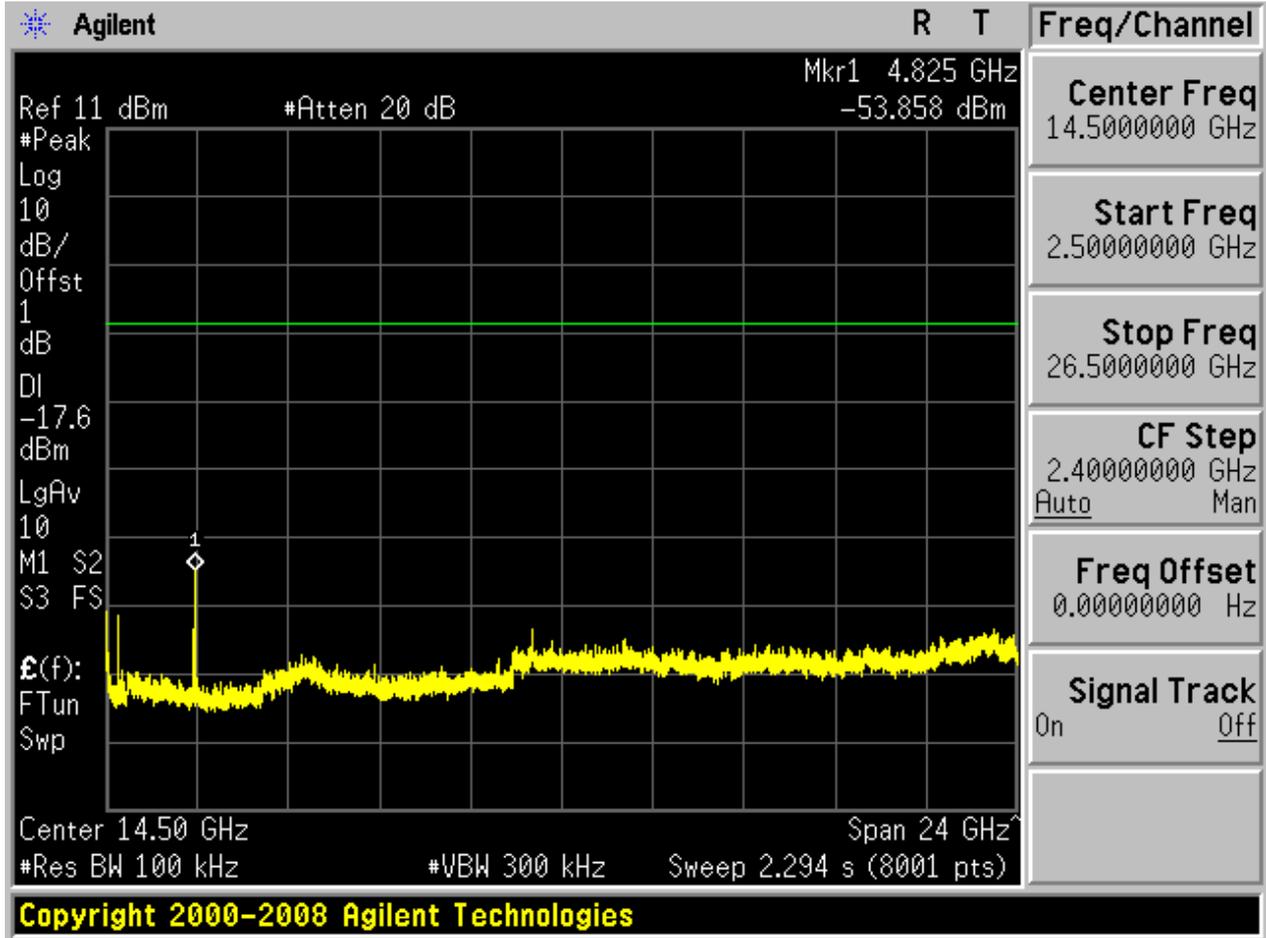








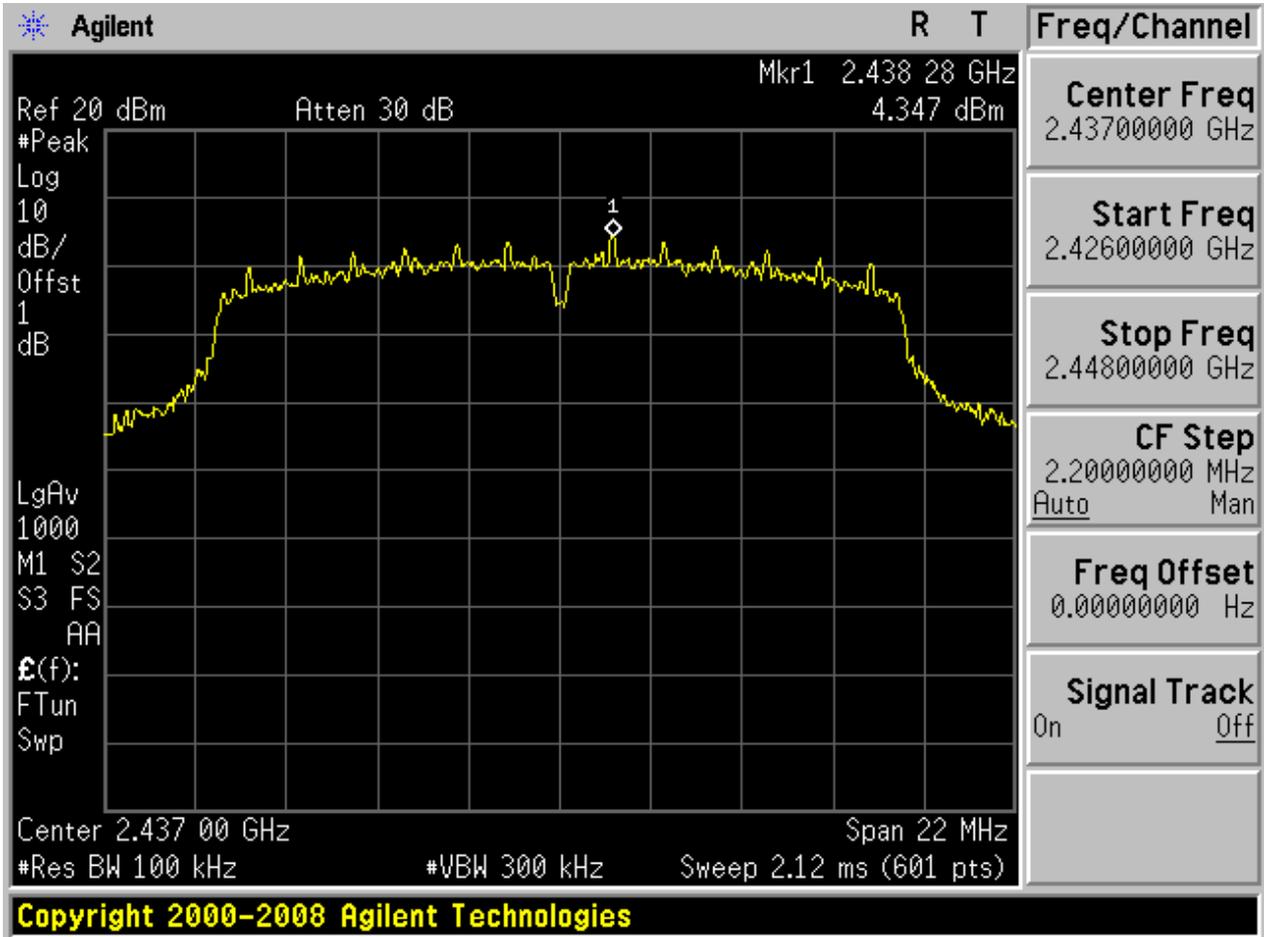






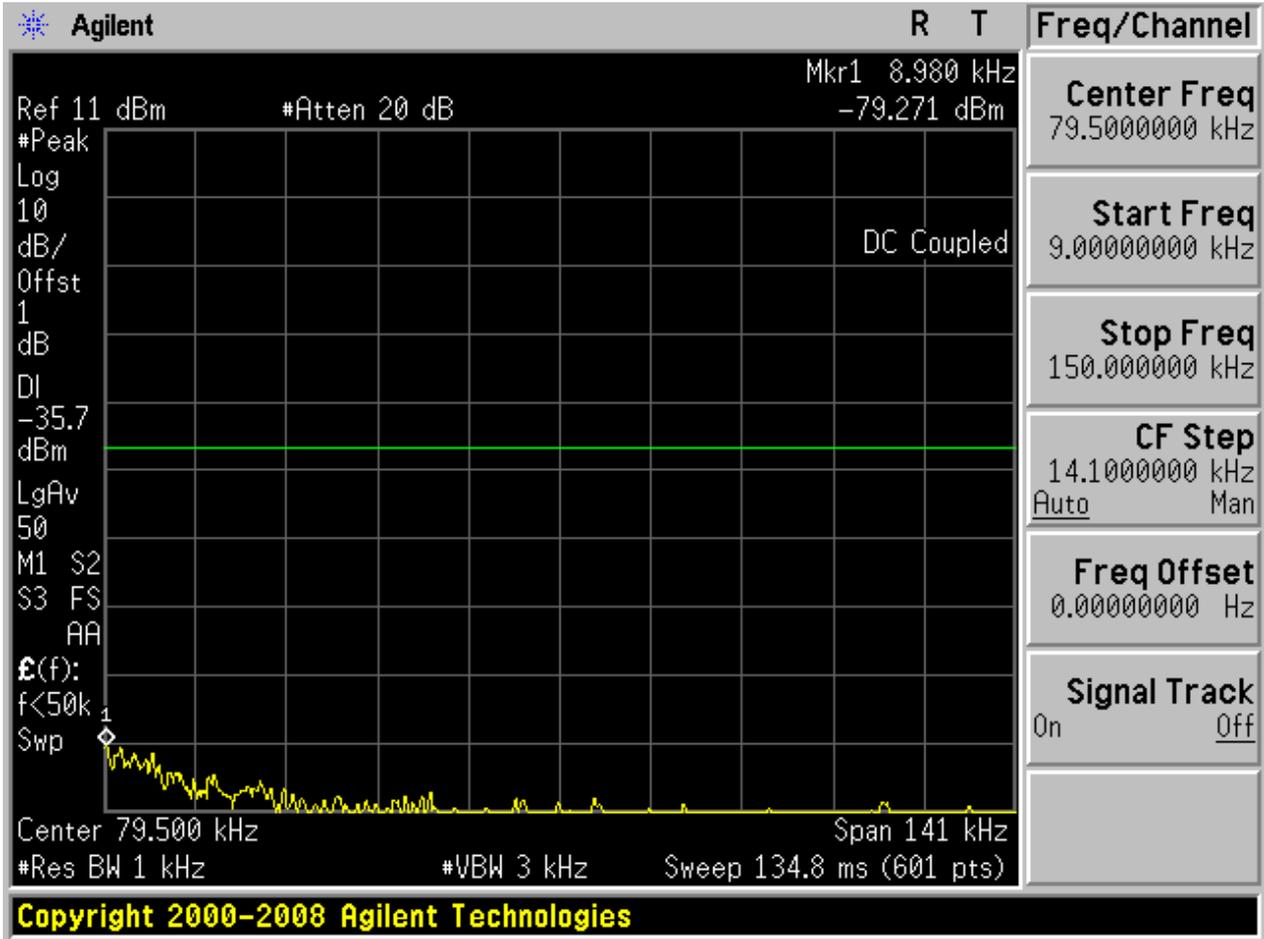
2.9 11G_M@Ant 1

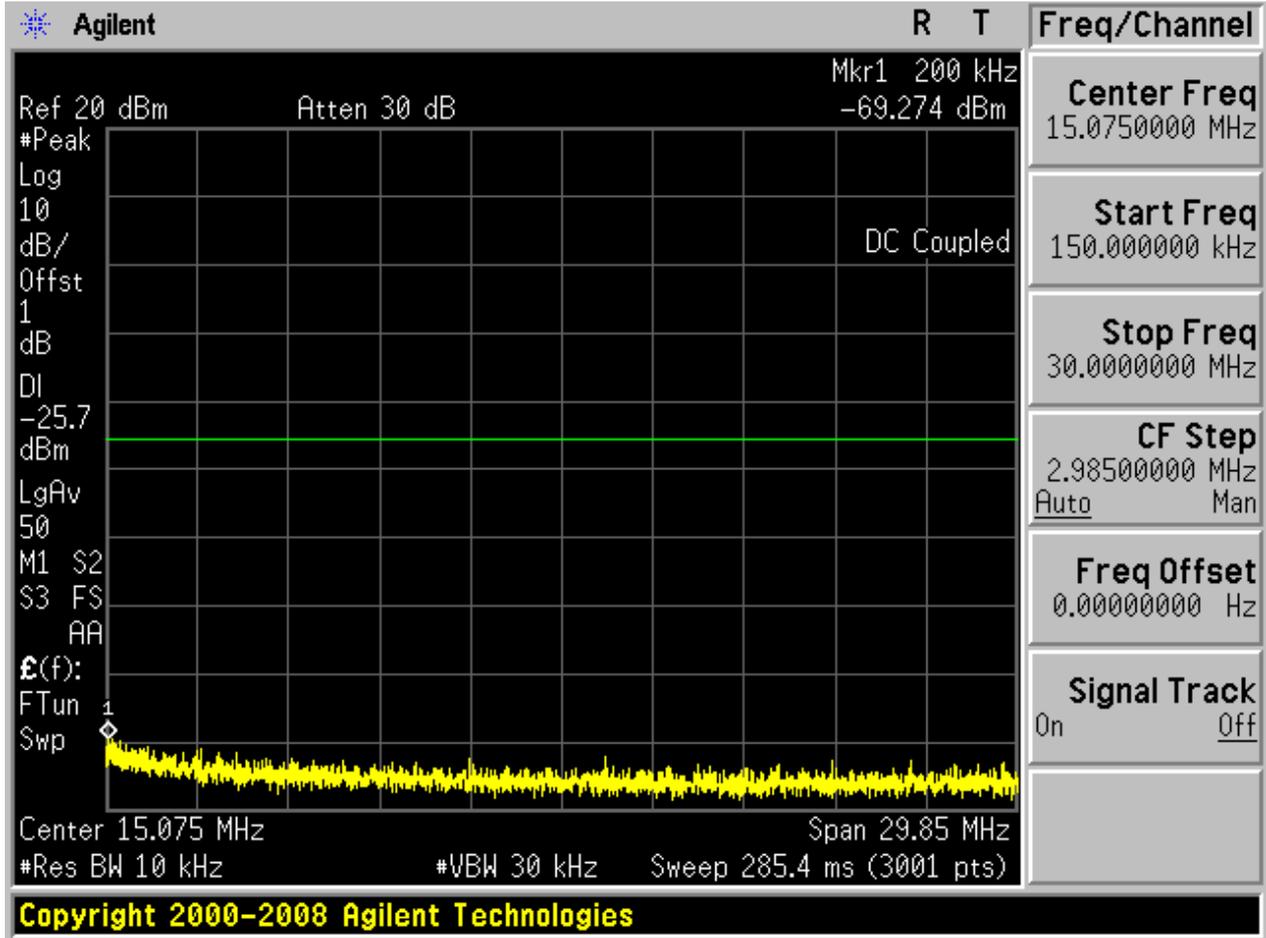
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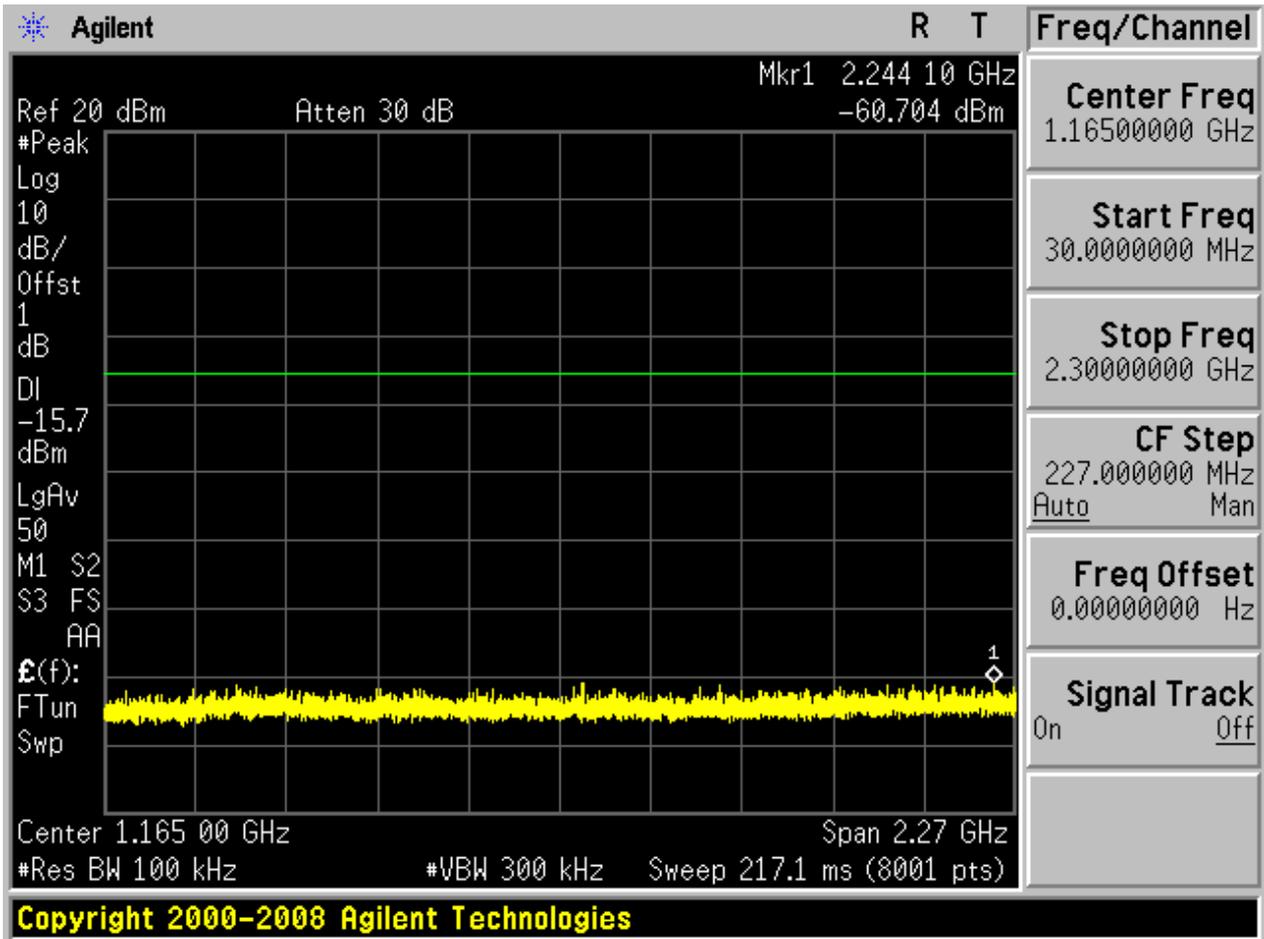


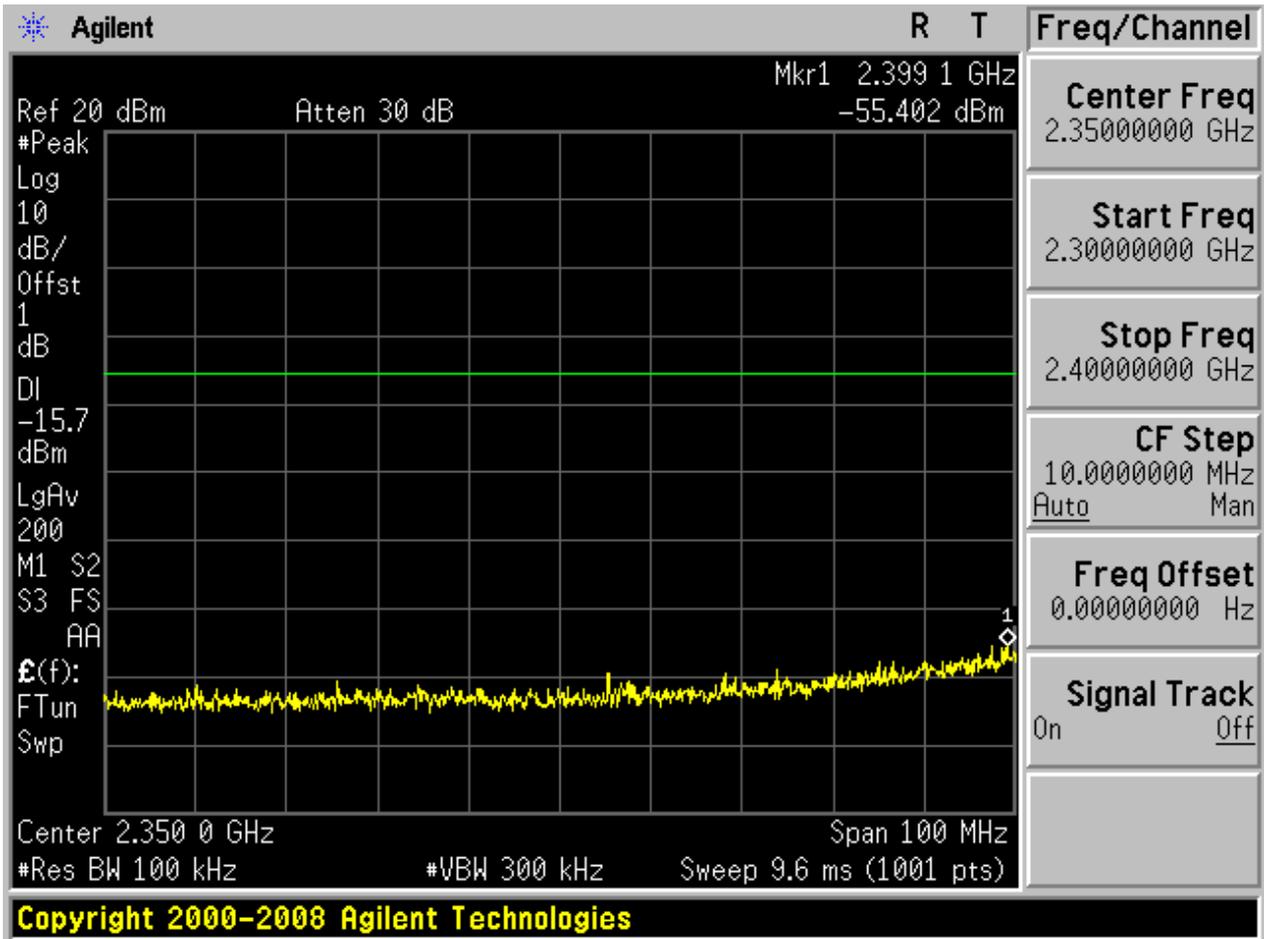


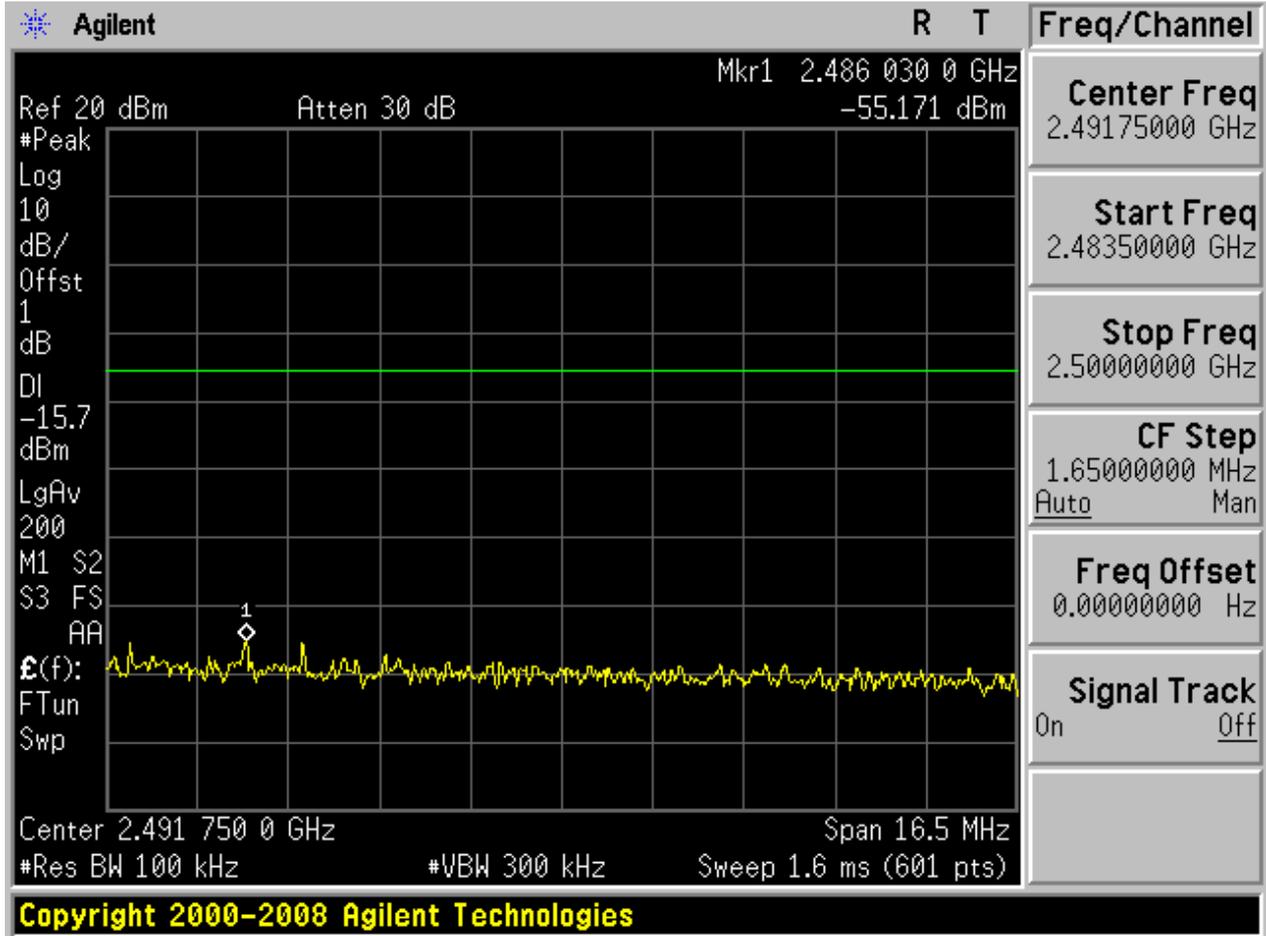
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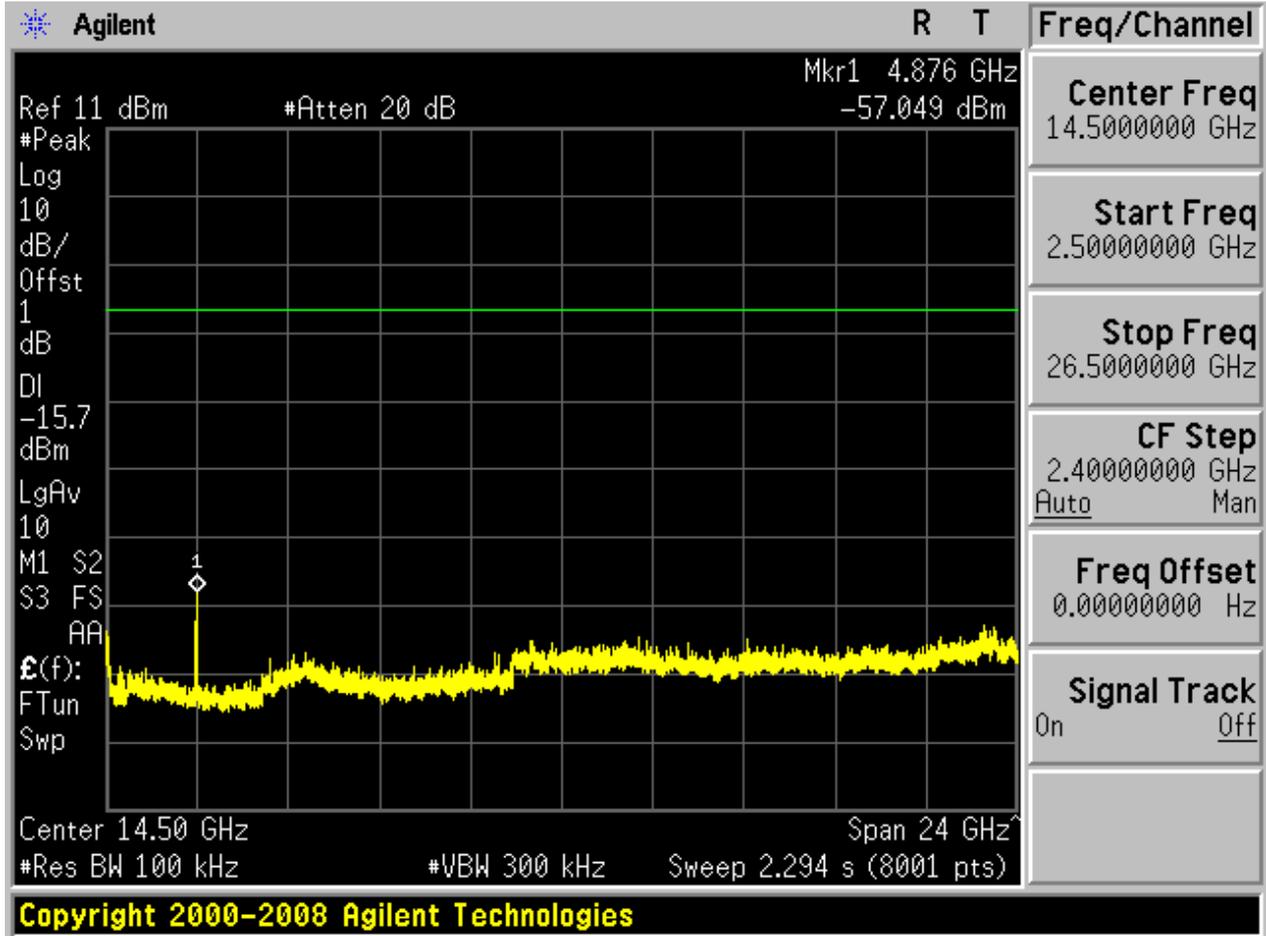








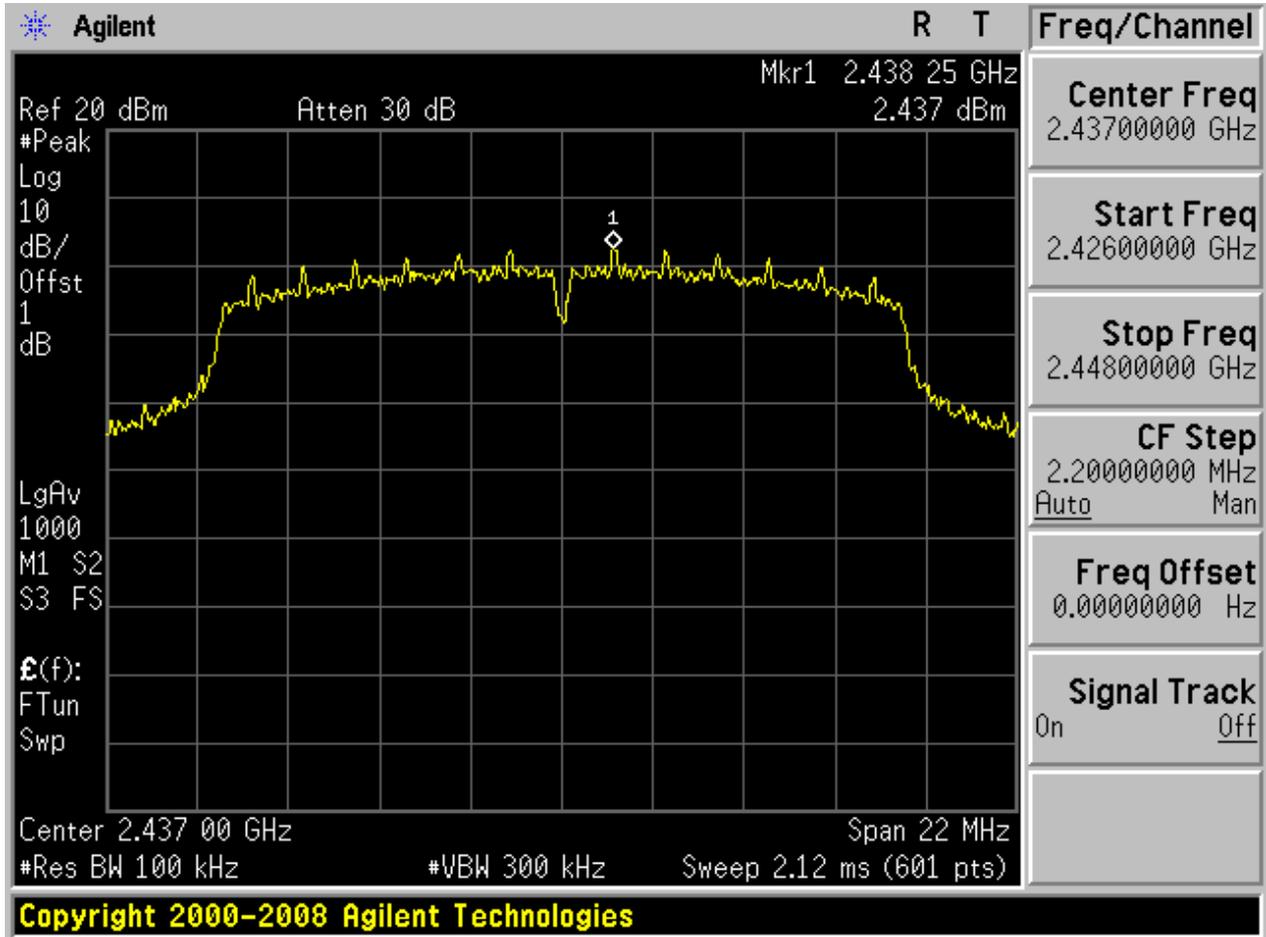






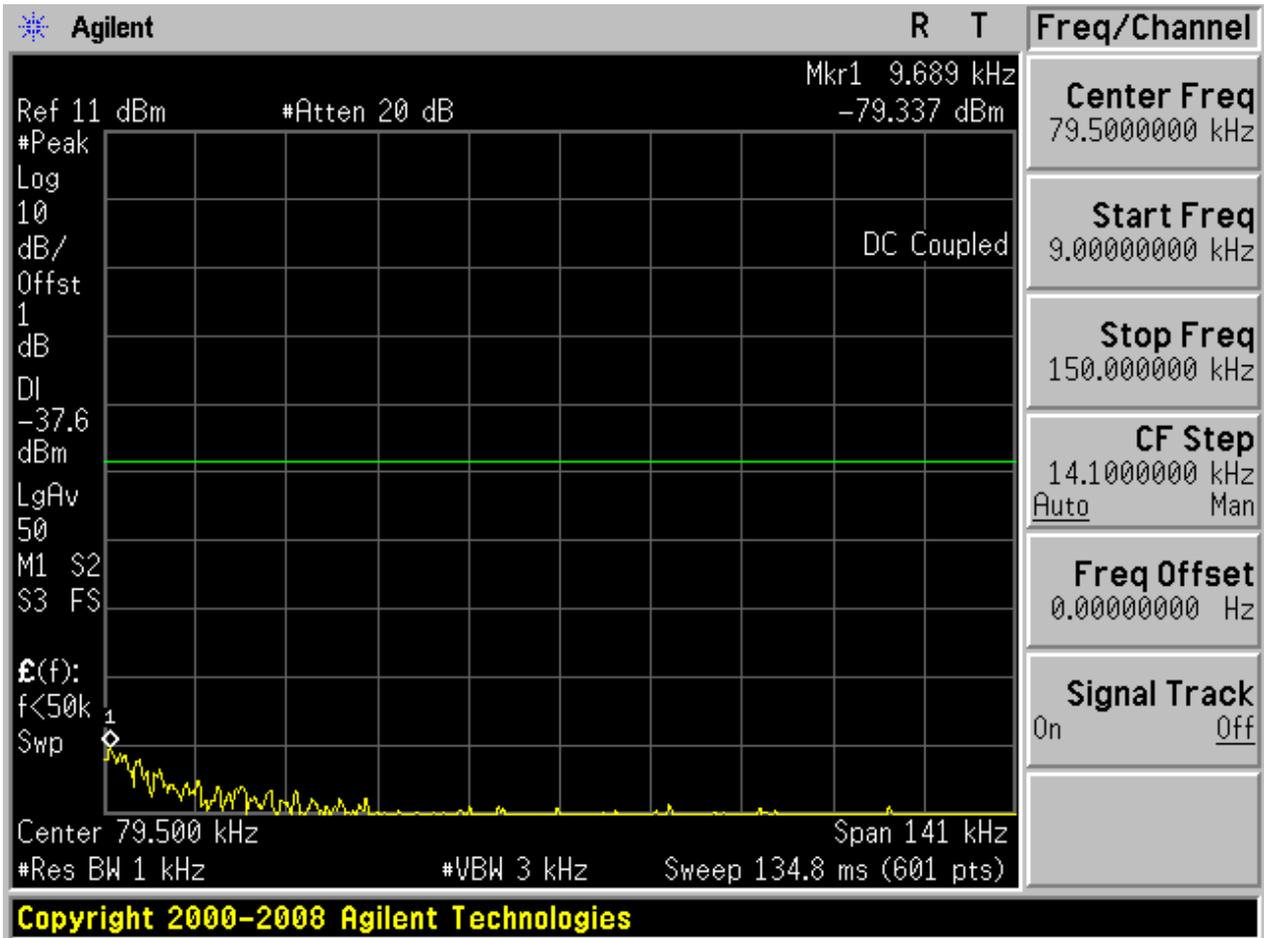
2.10 11G_M@Ant 2

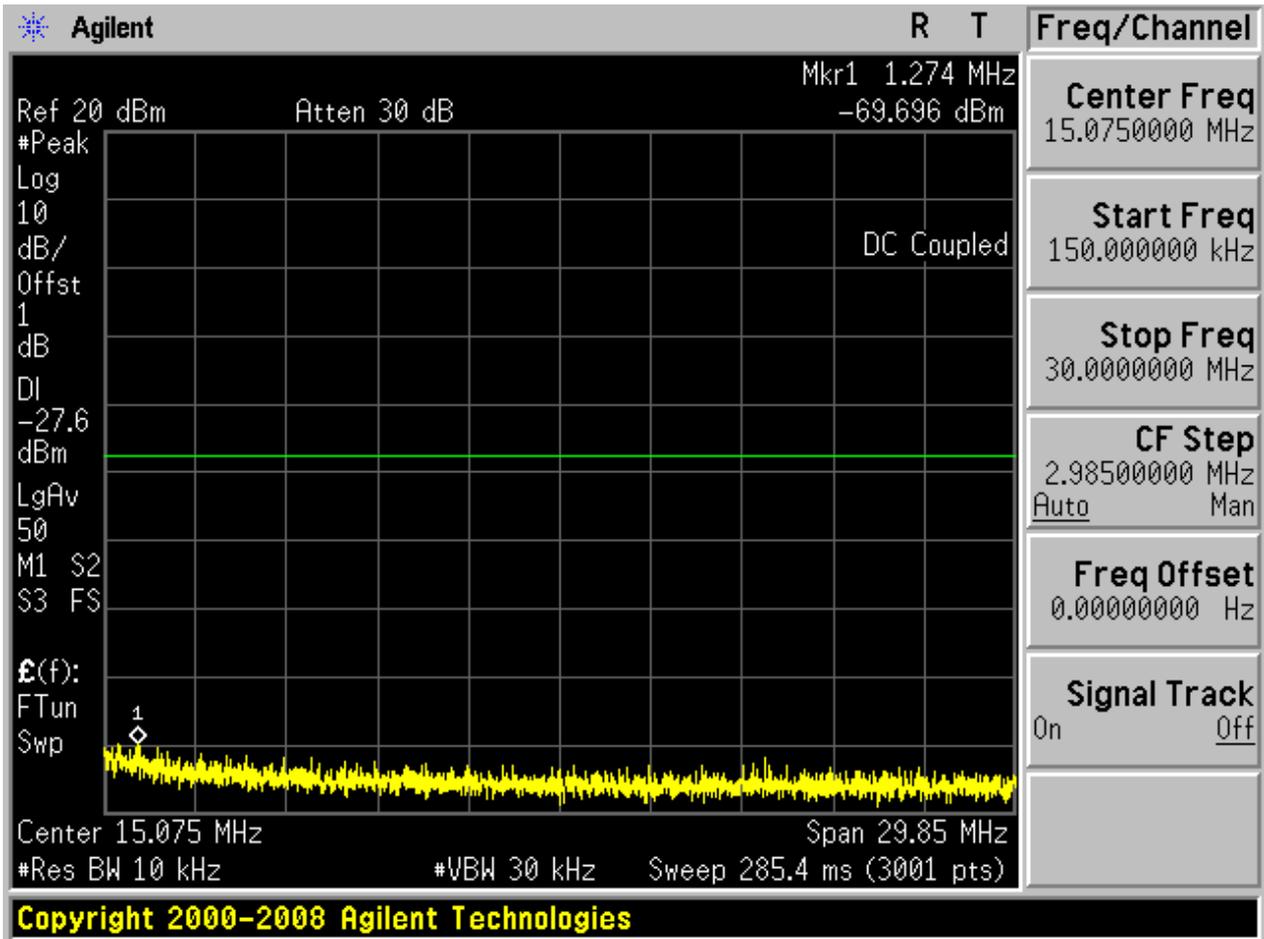
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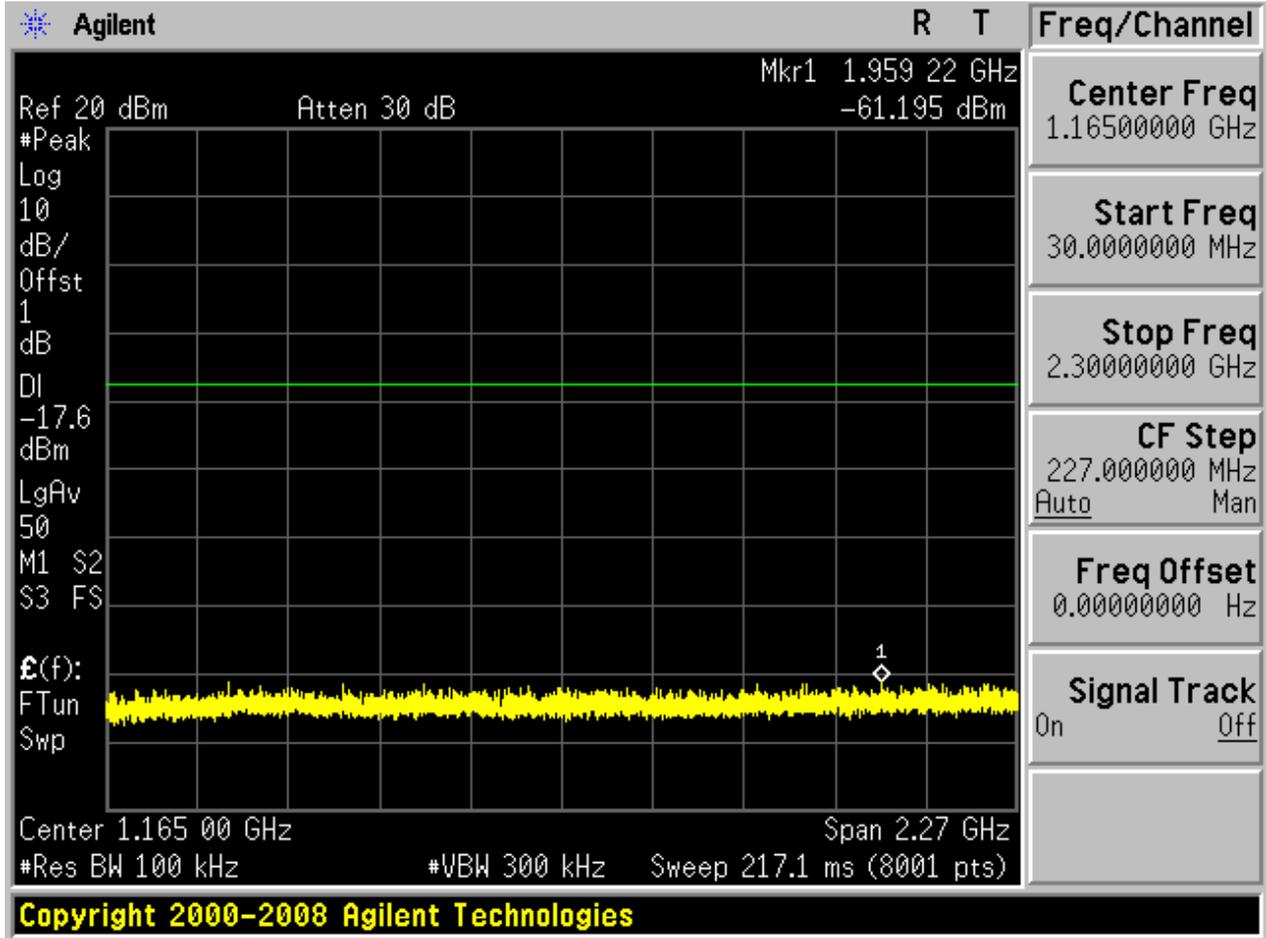


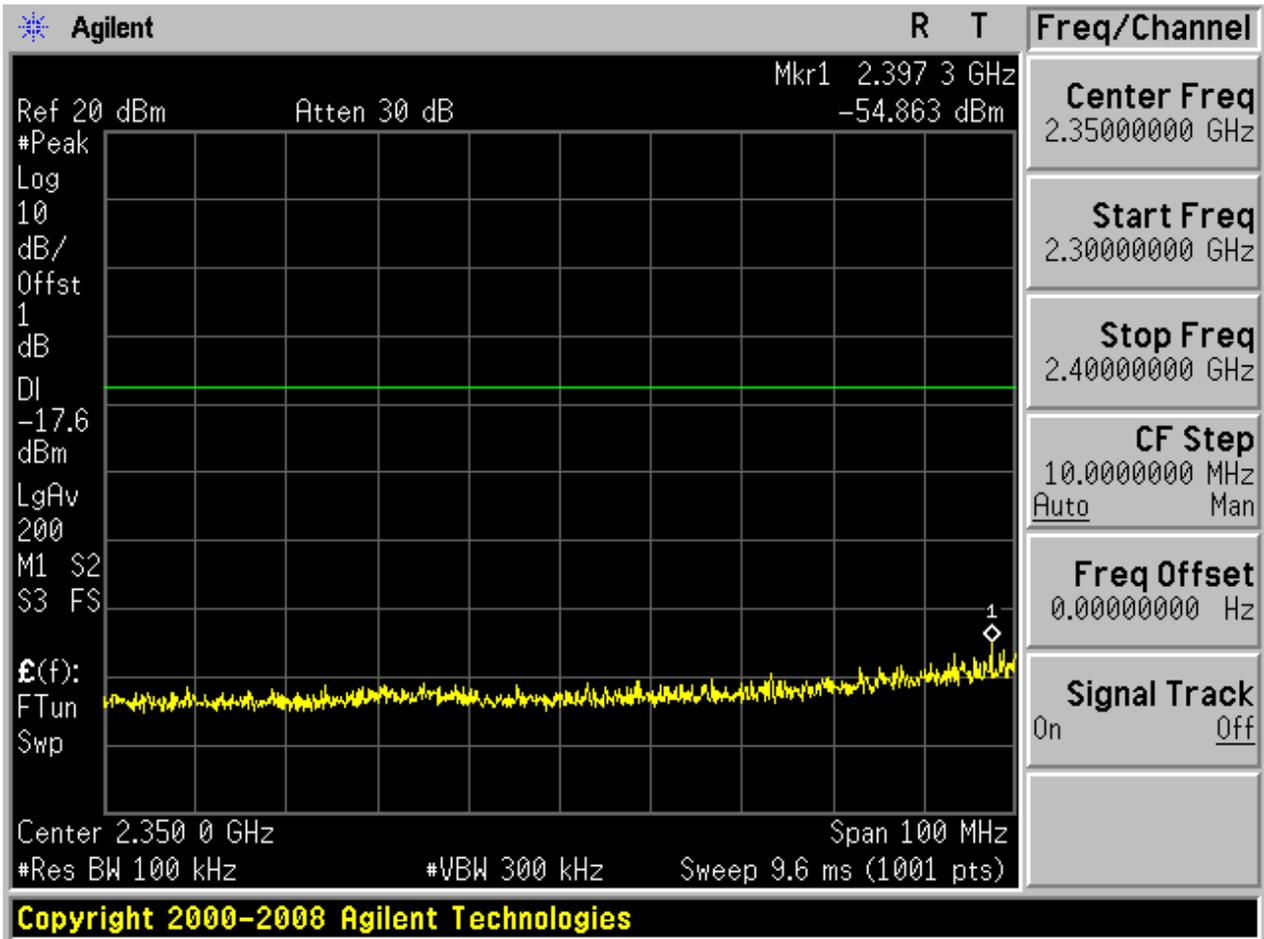


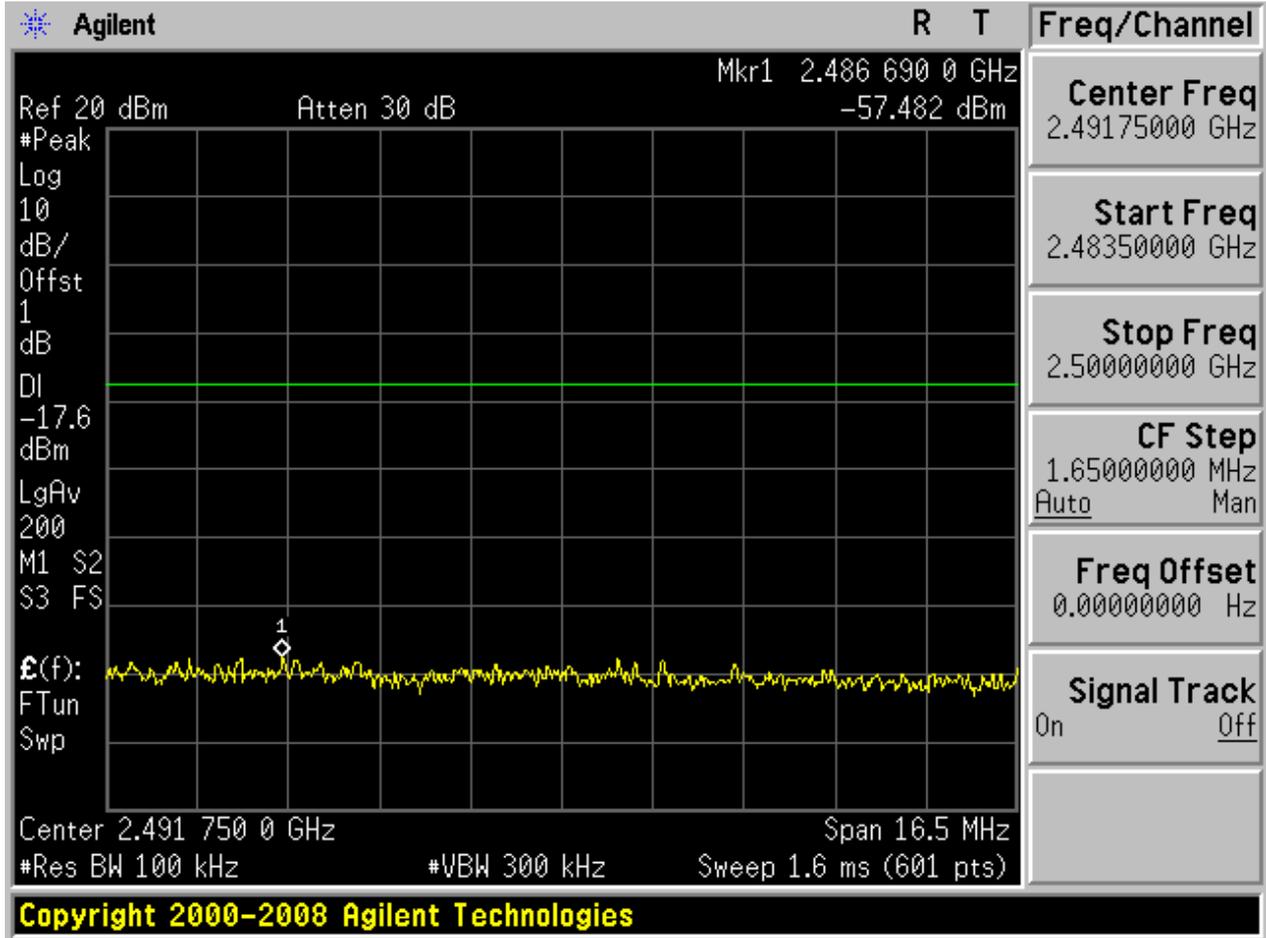
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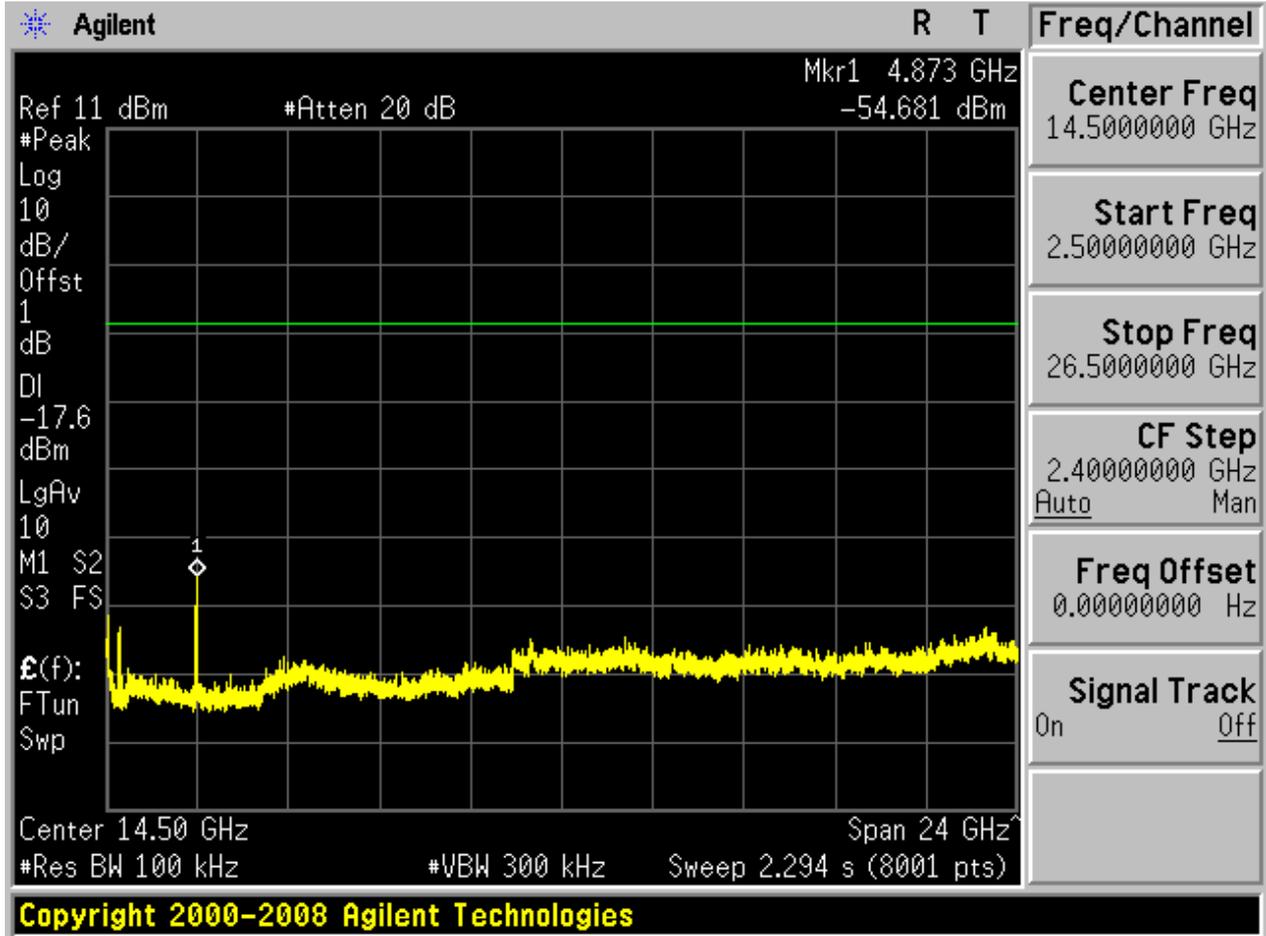








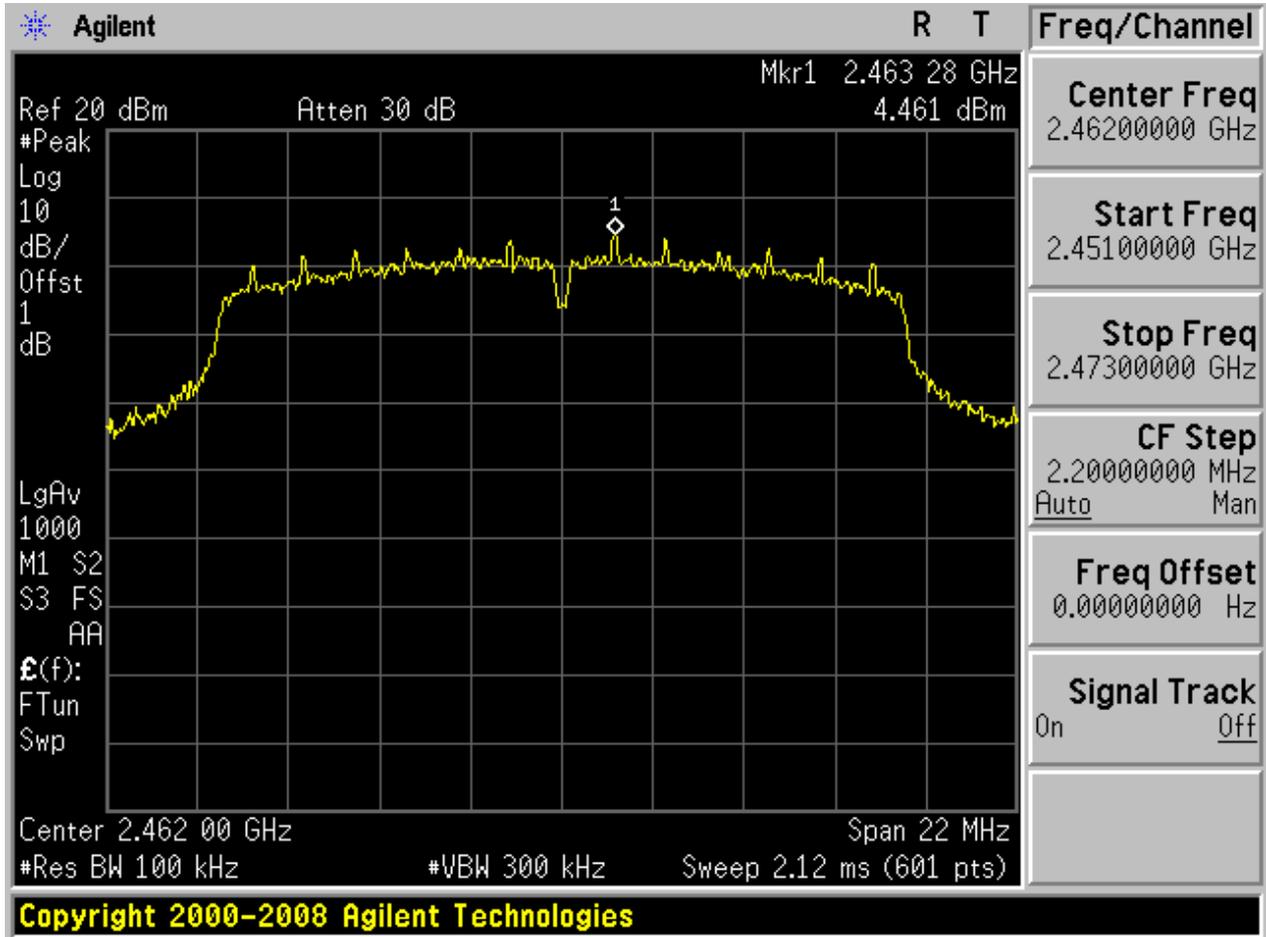
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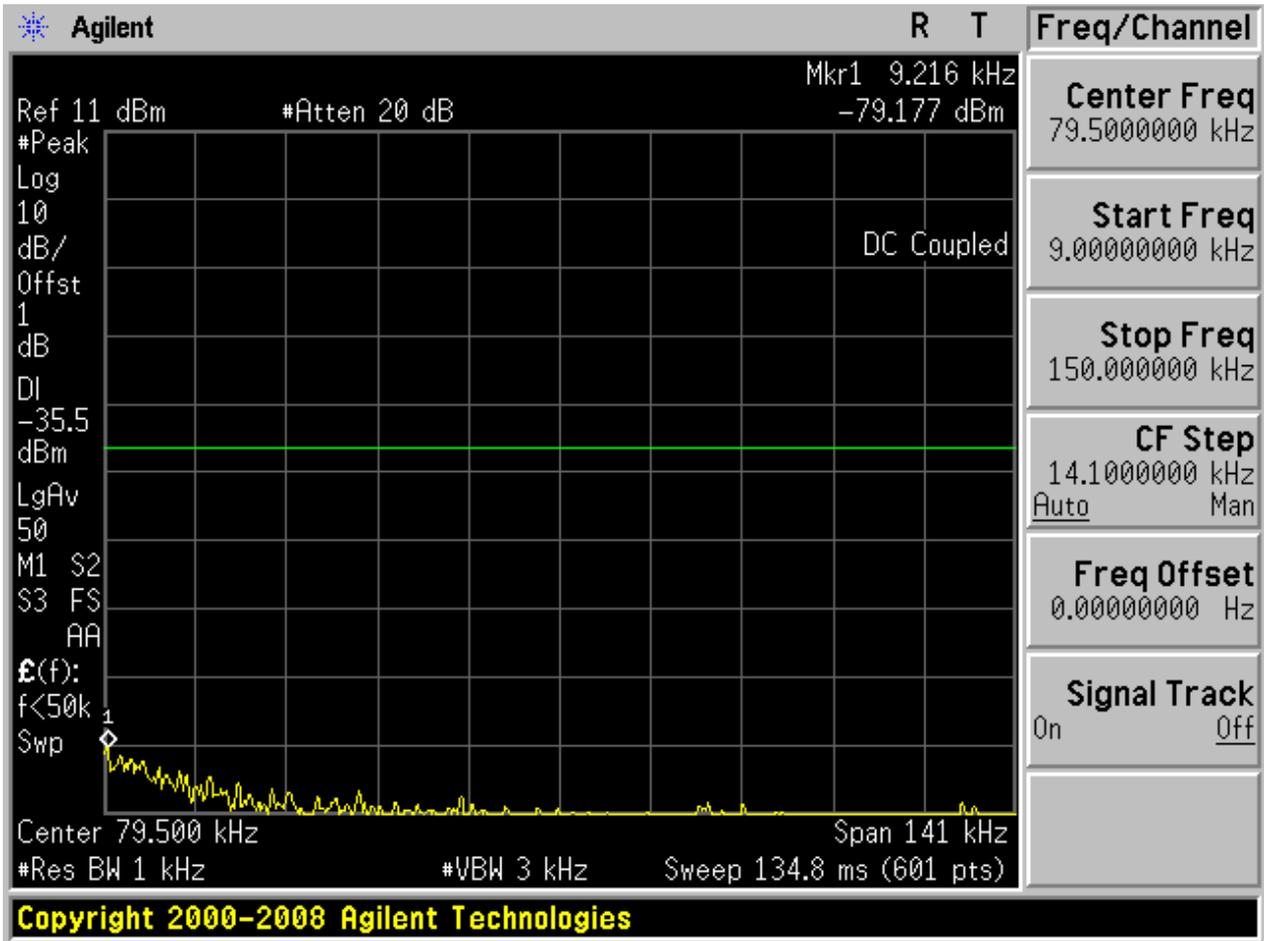
2.11 11G_H@Ant 1

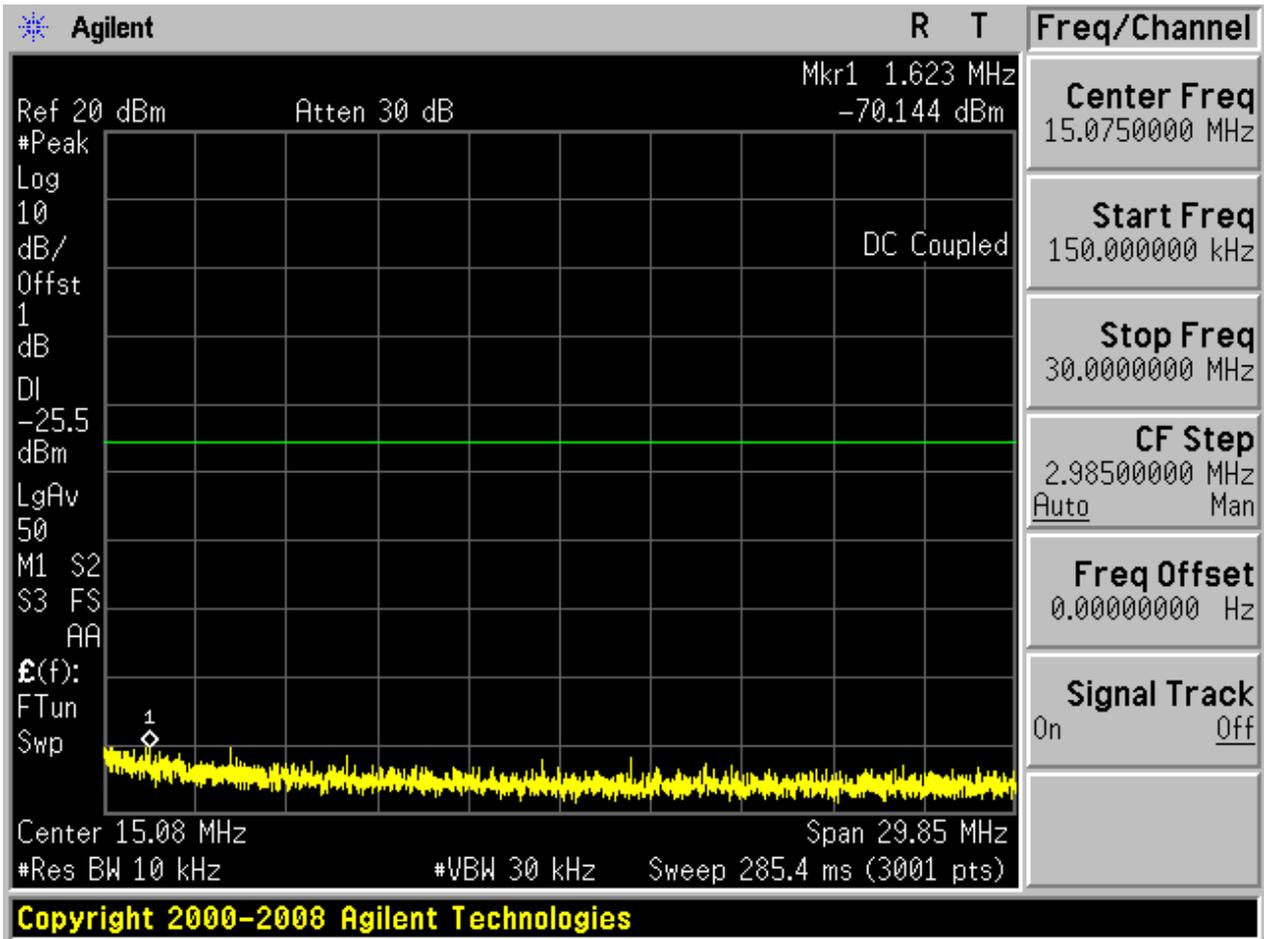
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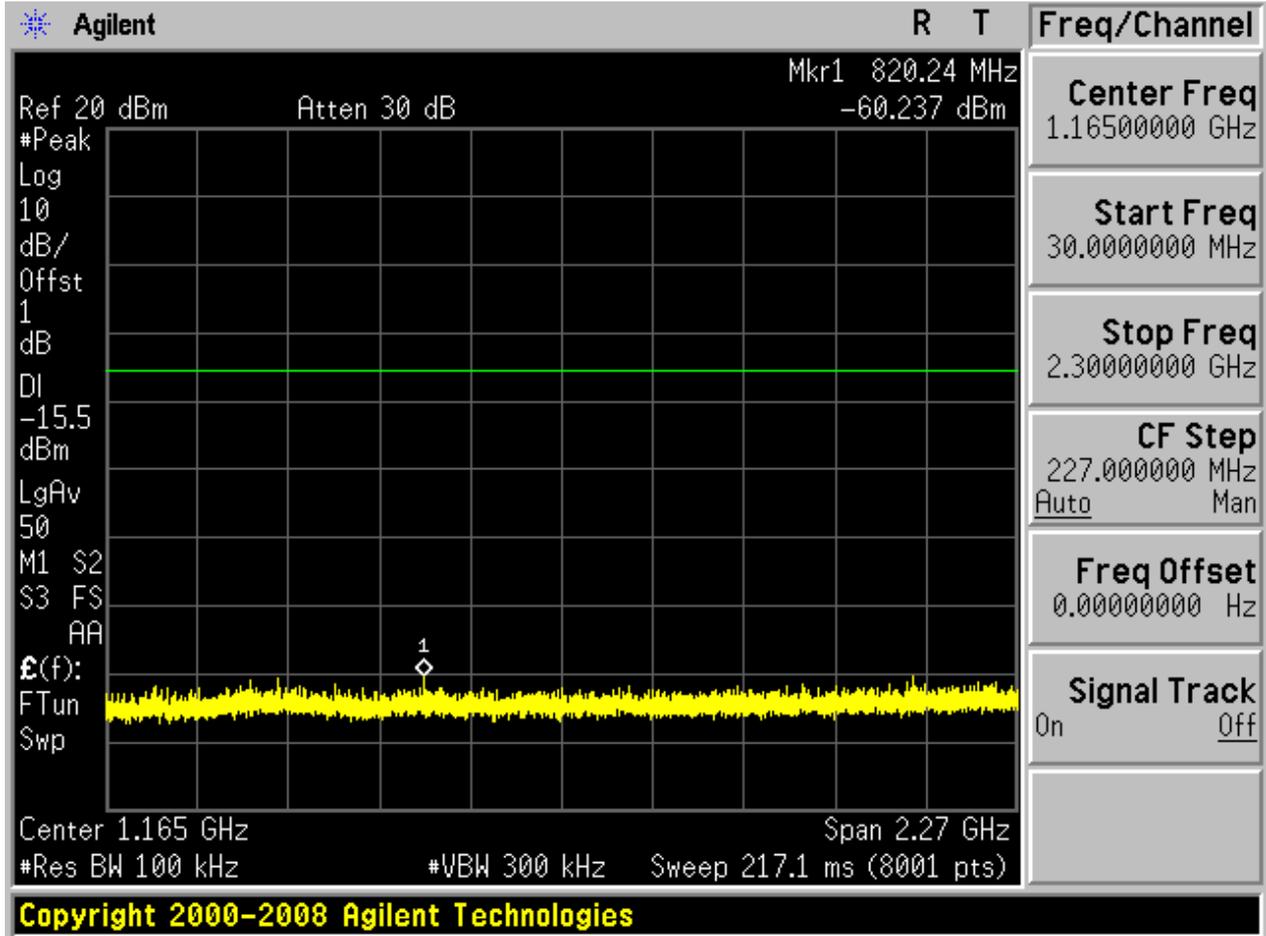


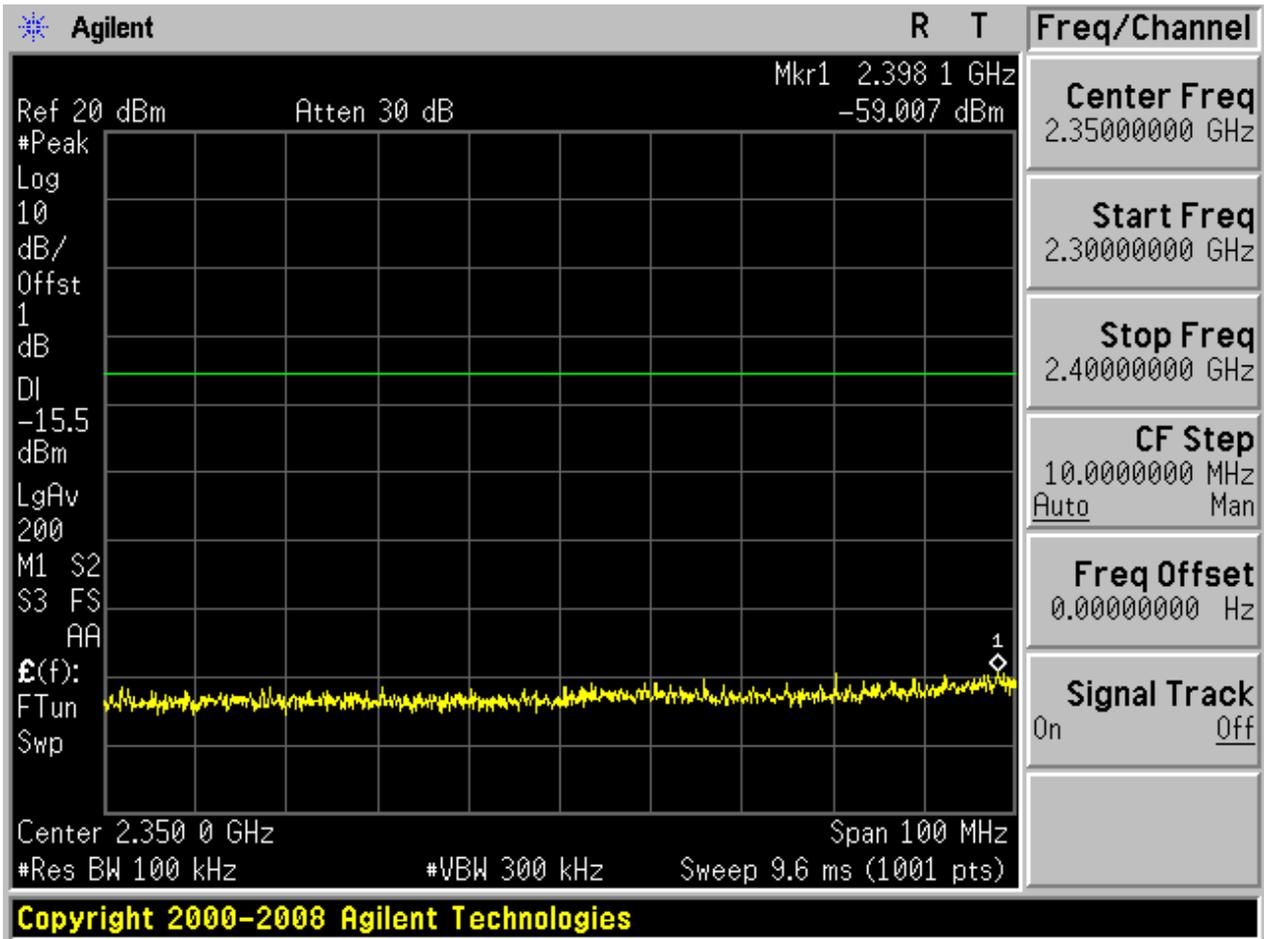


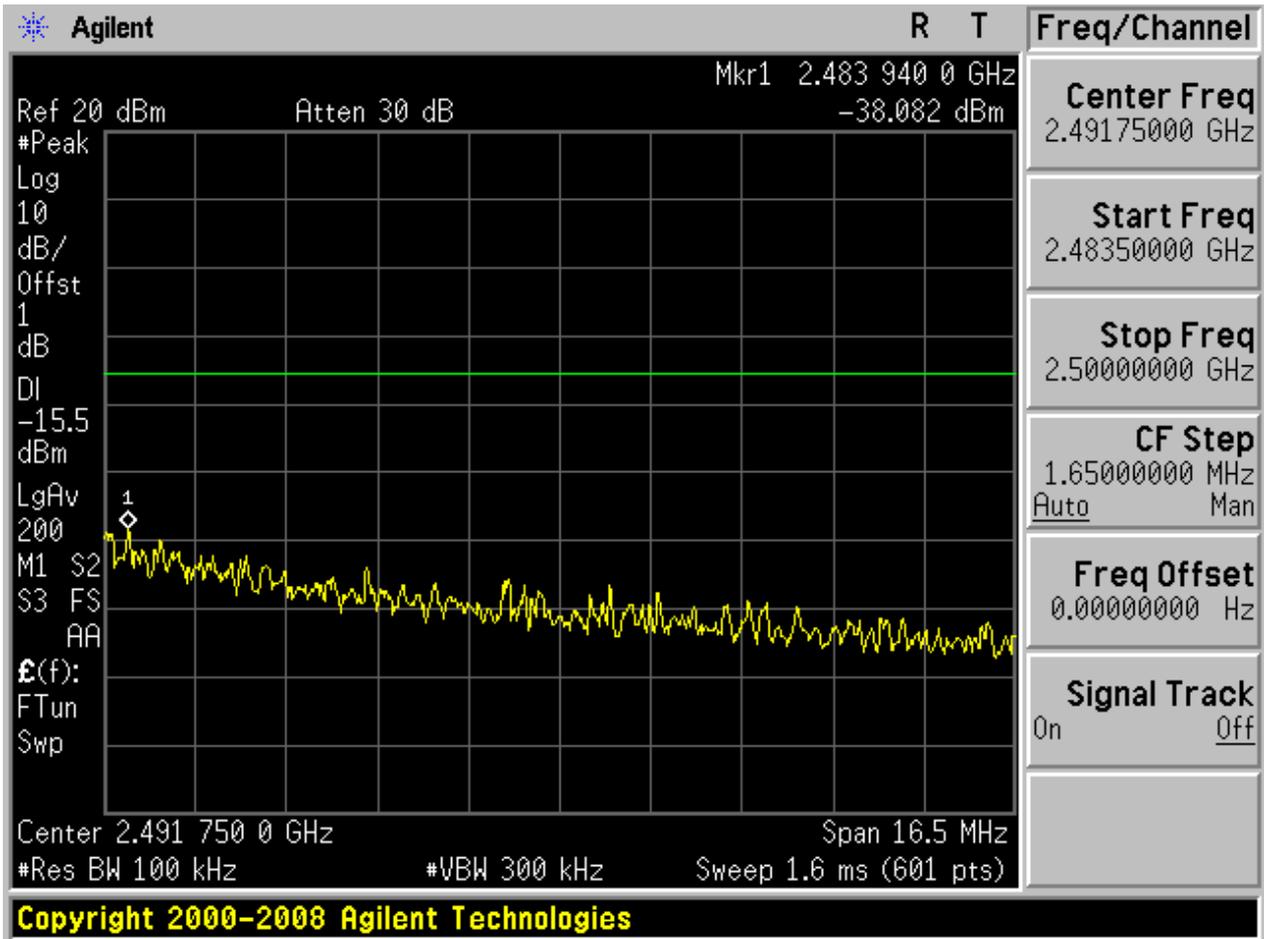
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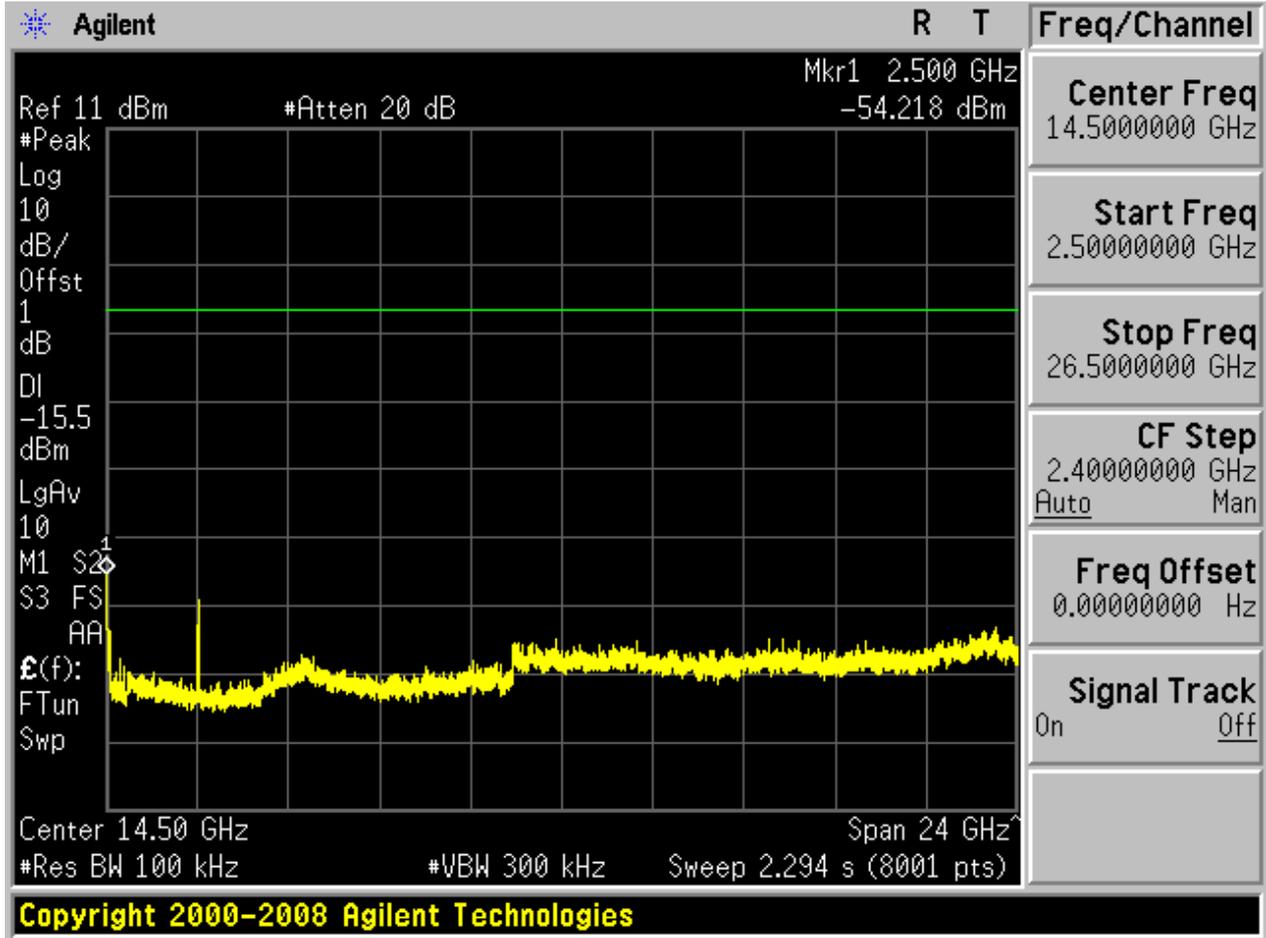








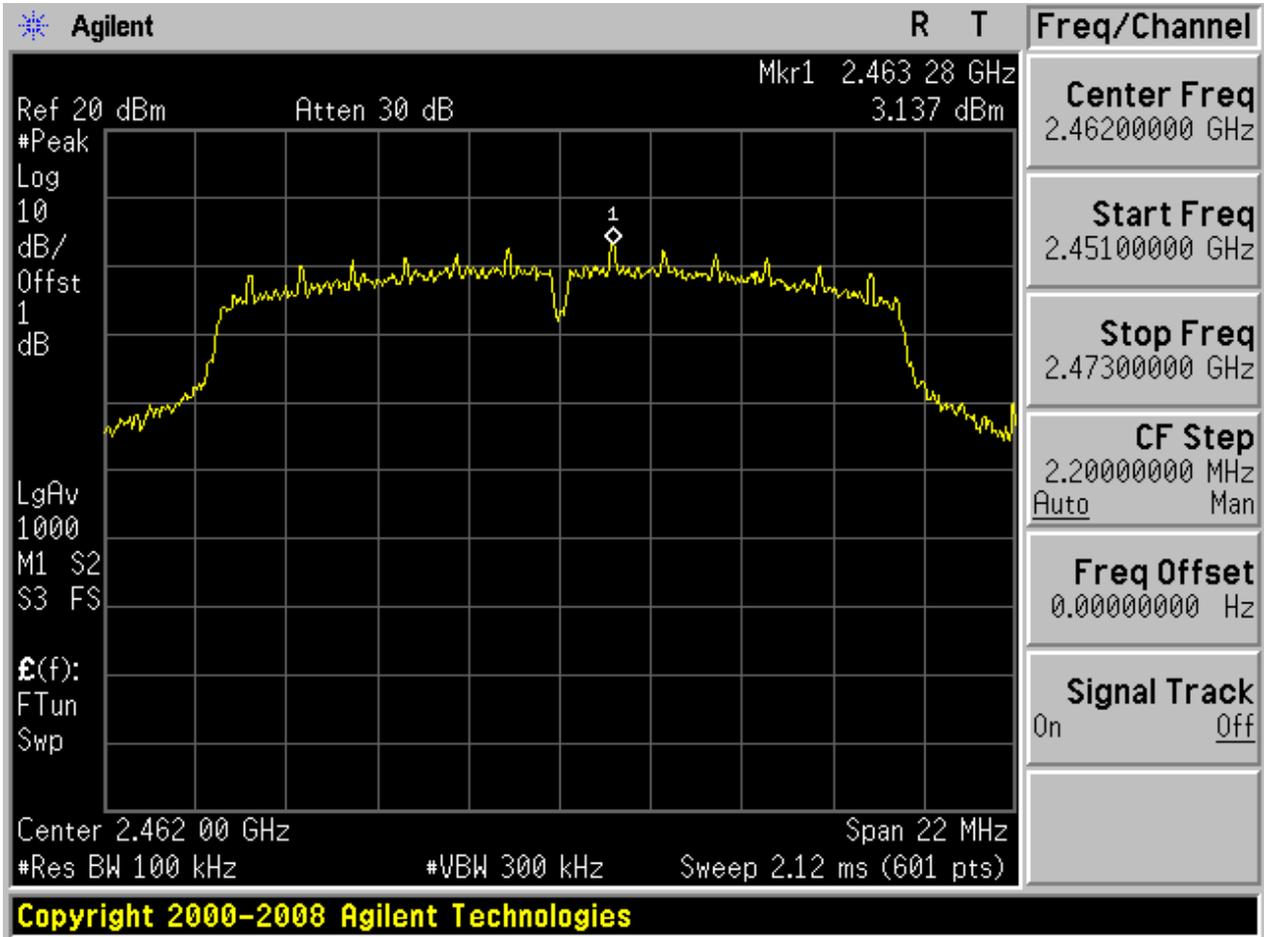






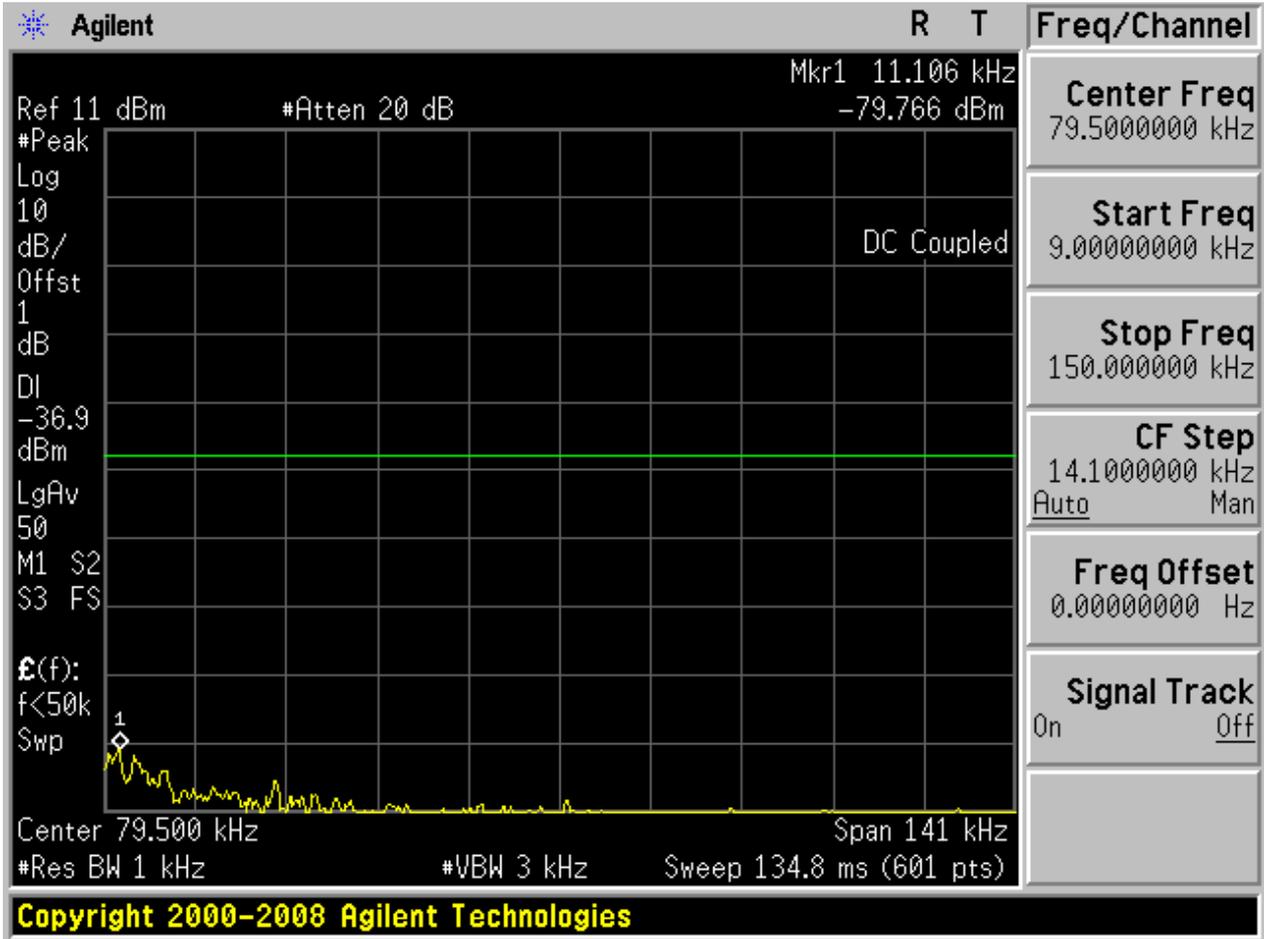
2.12 11G_H@Ant 2

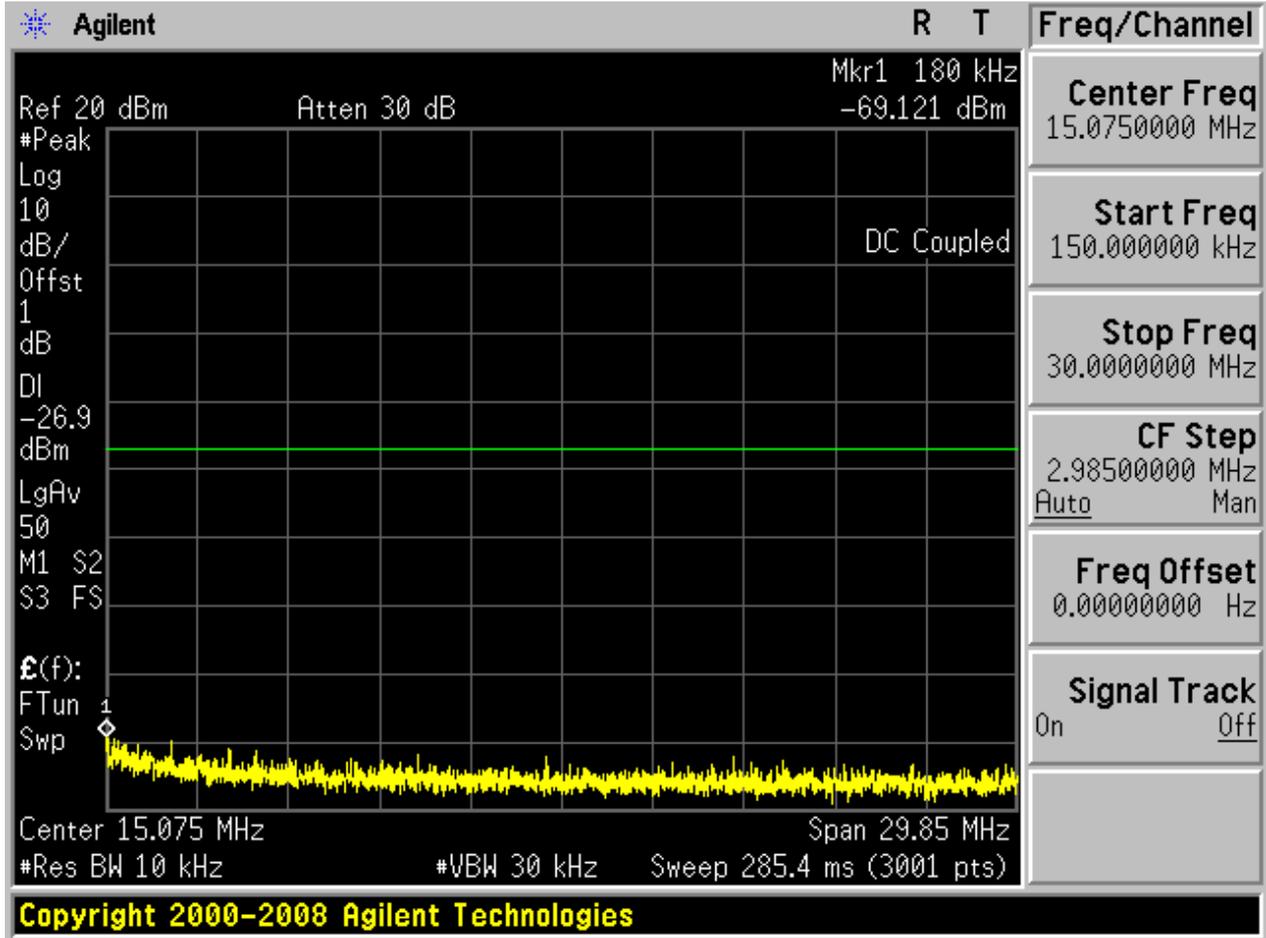
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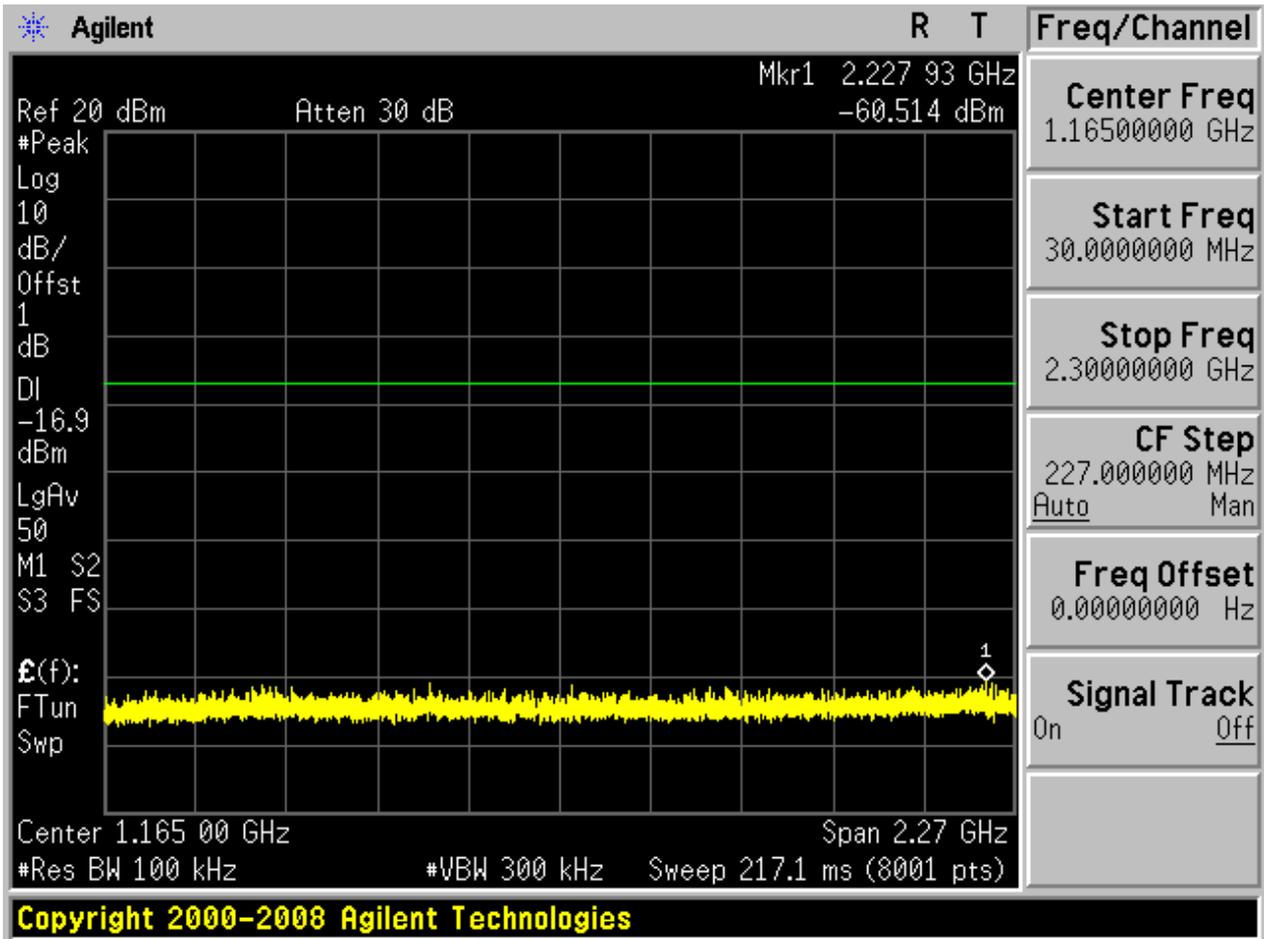


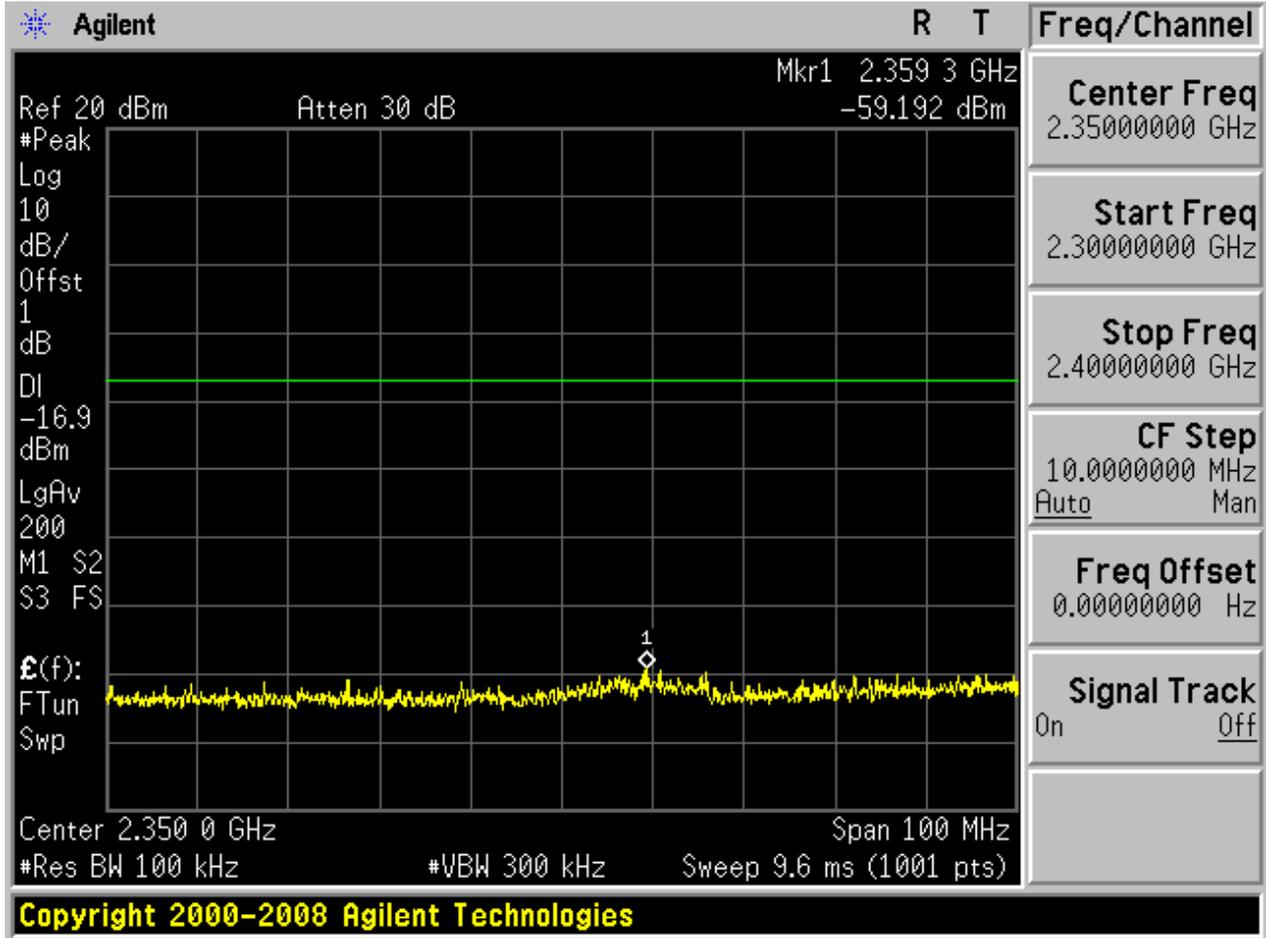


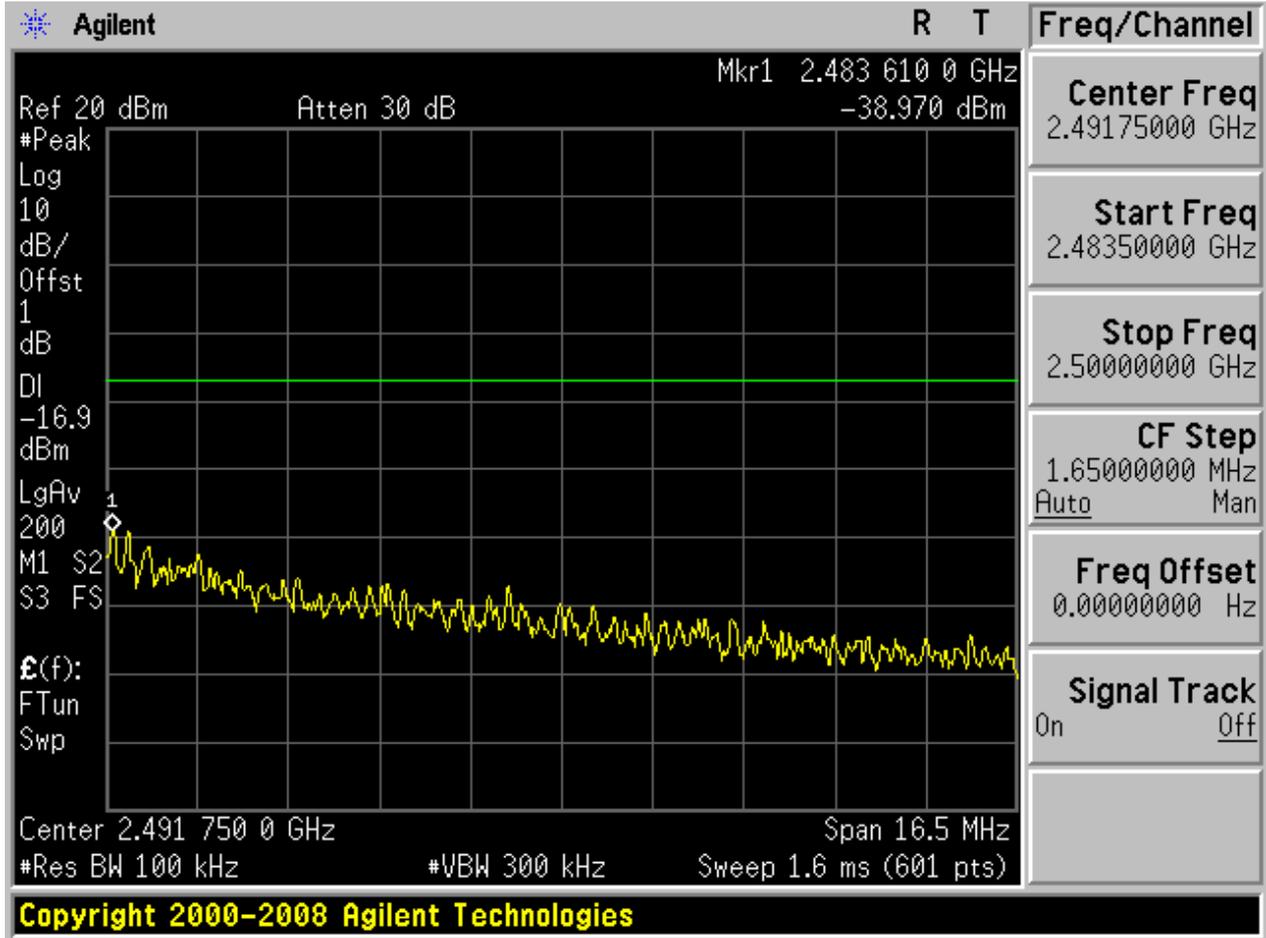
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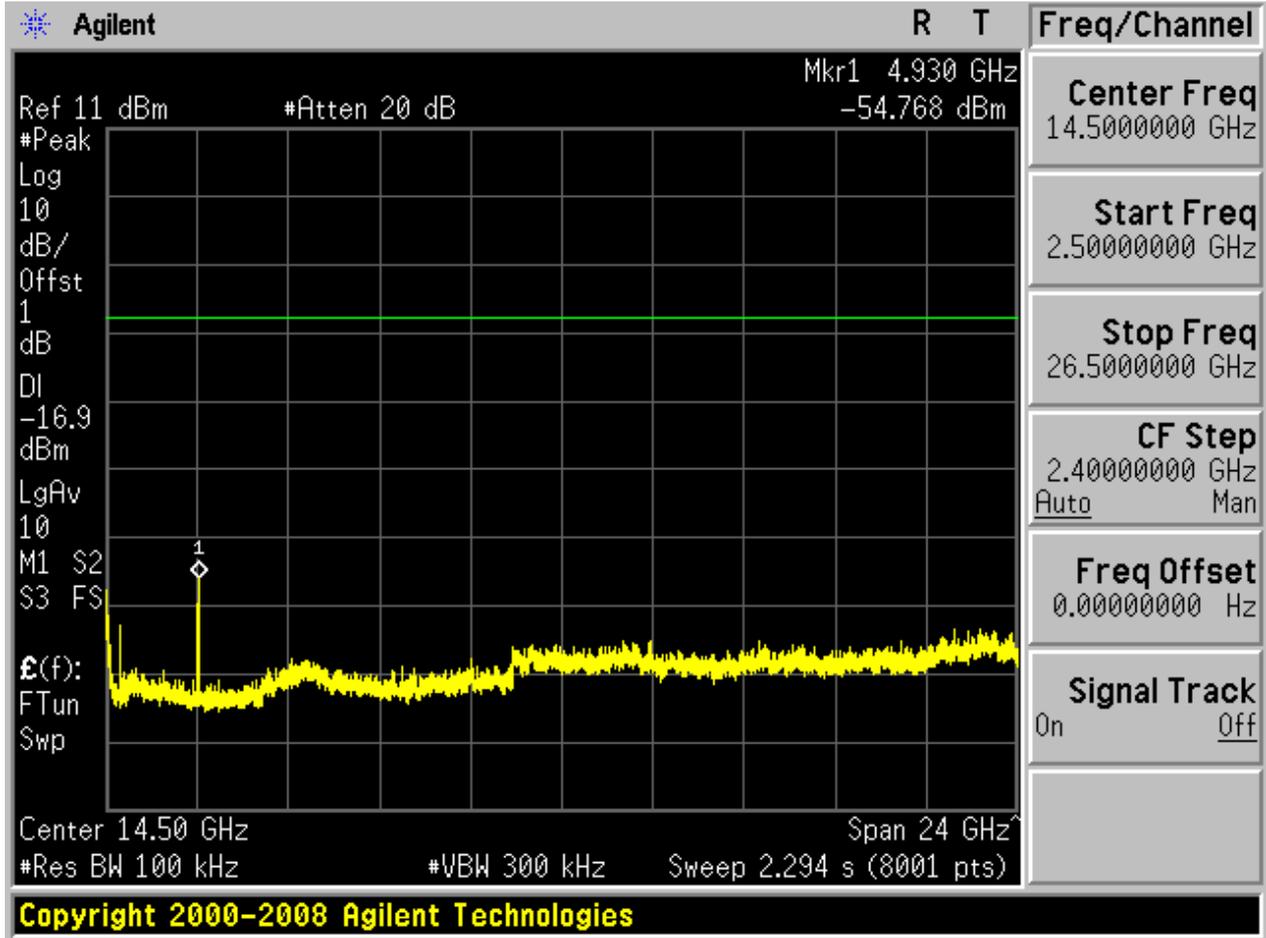








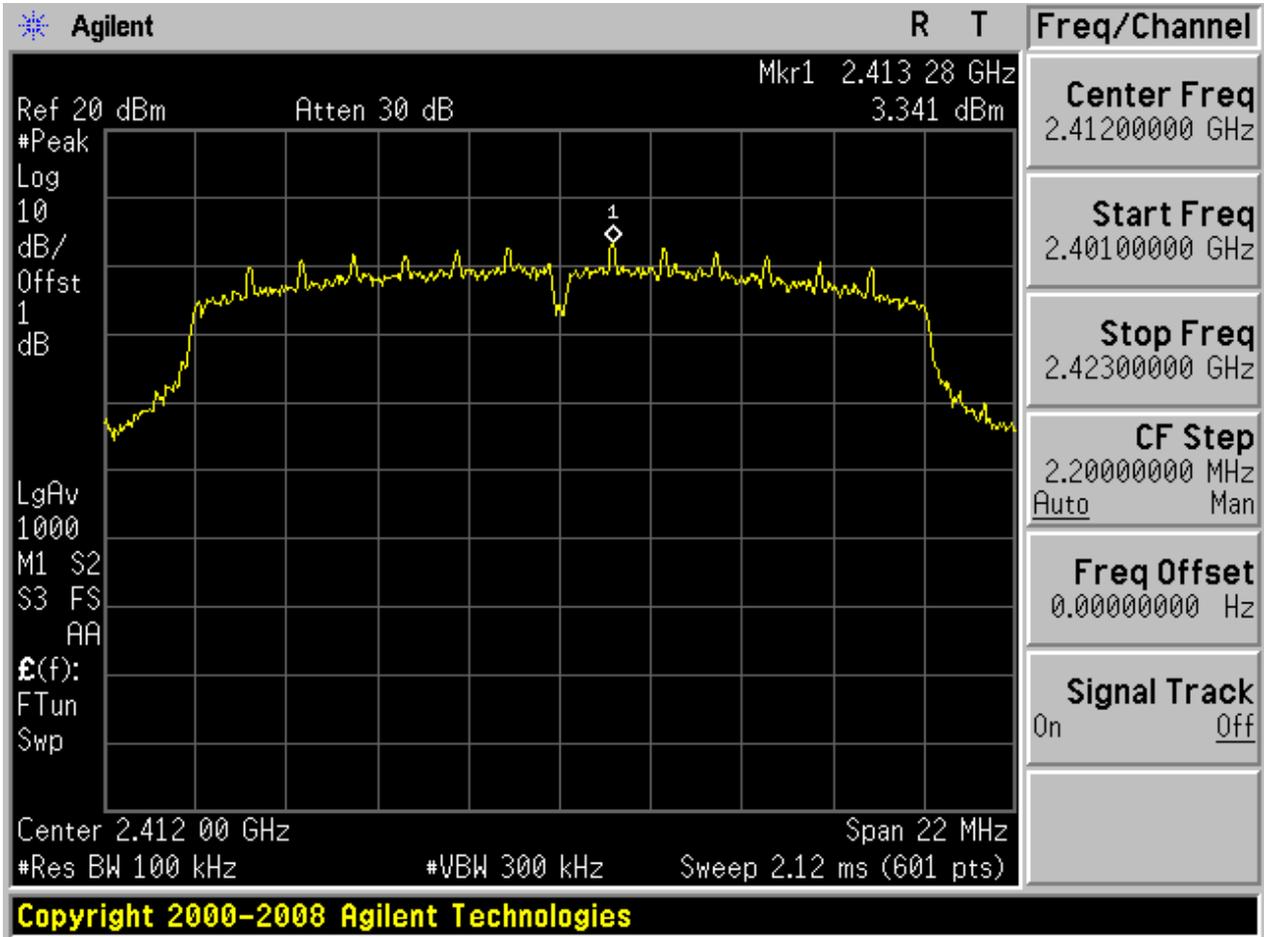






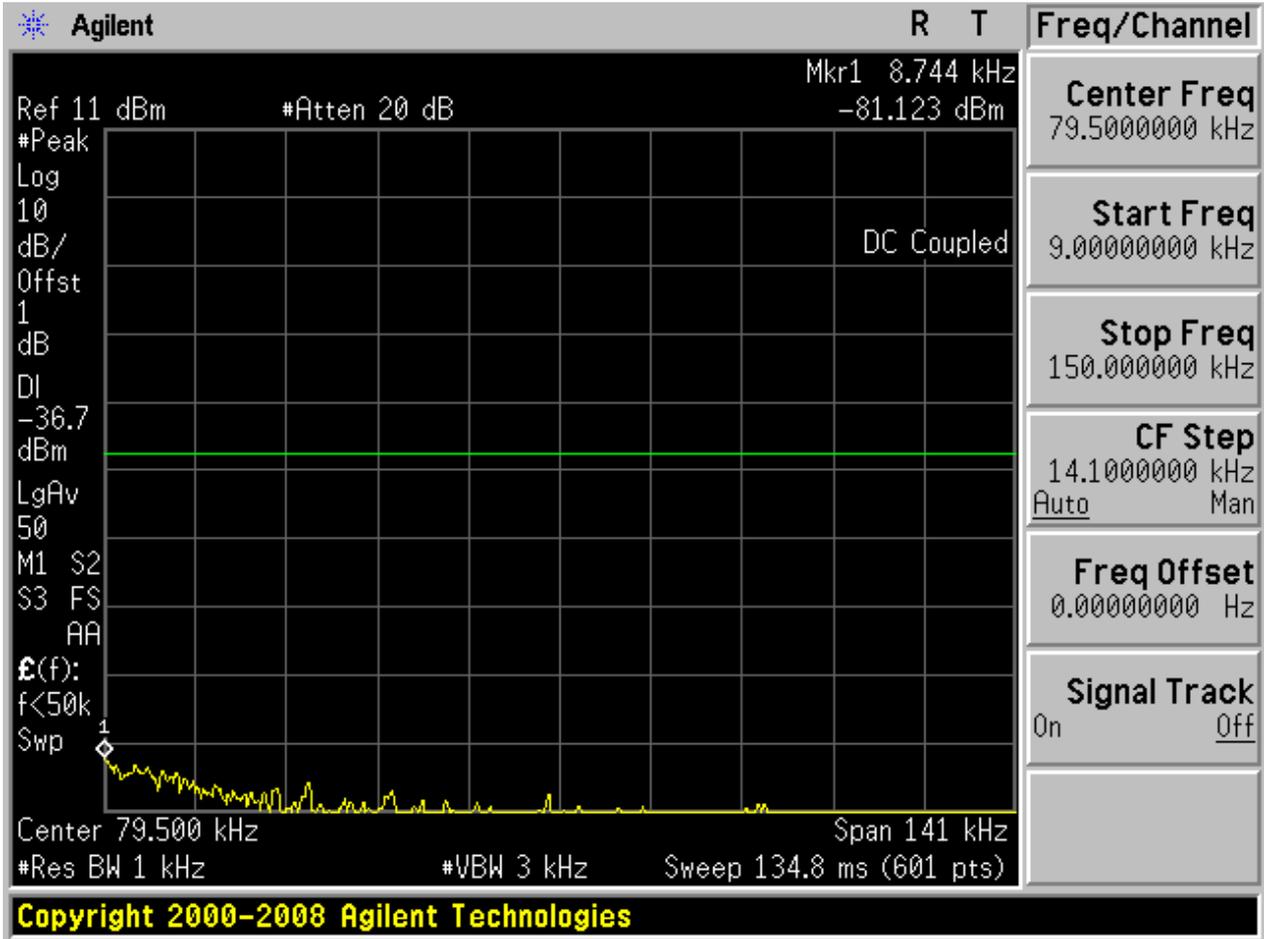
2.13 11N20_L@Ant 1

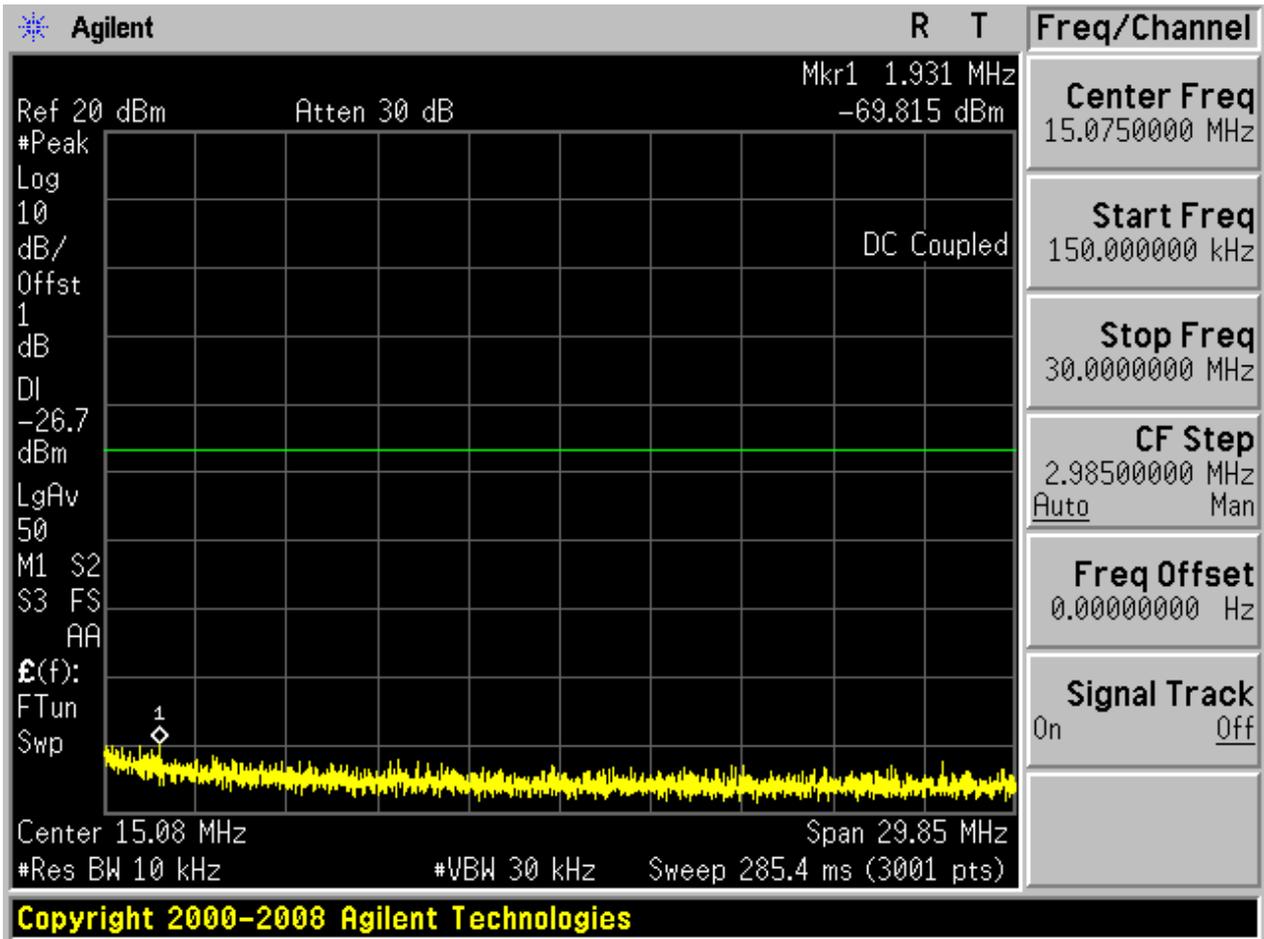
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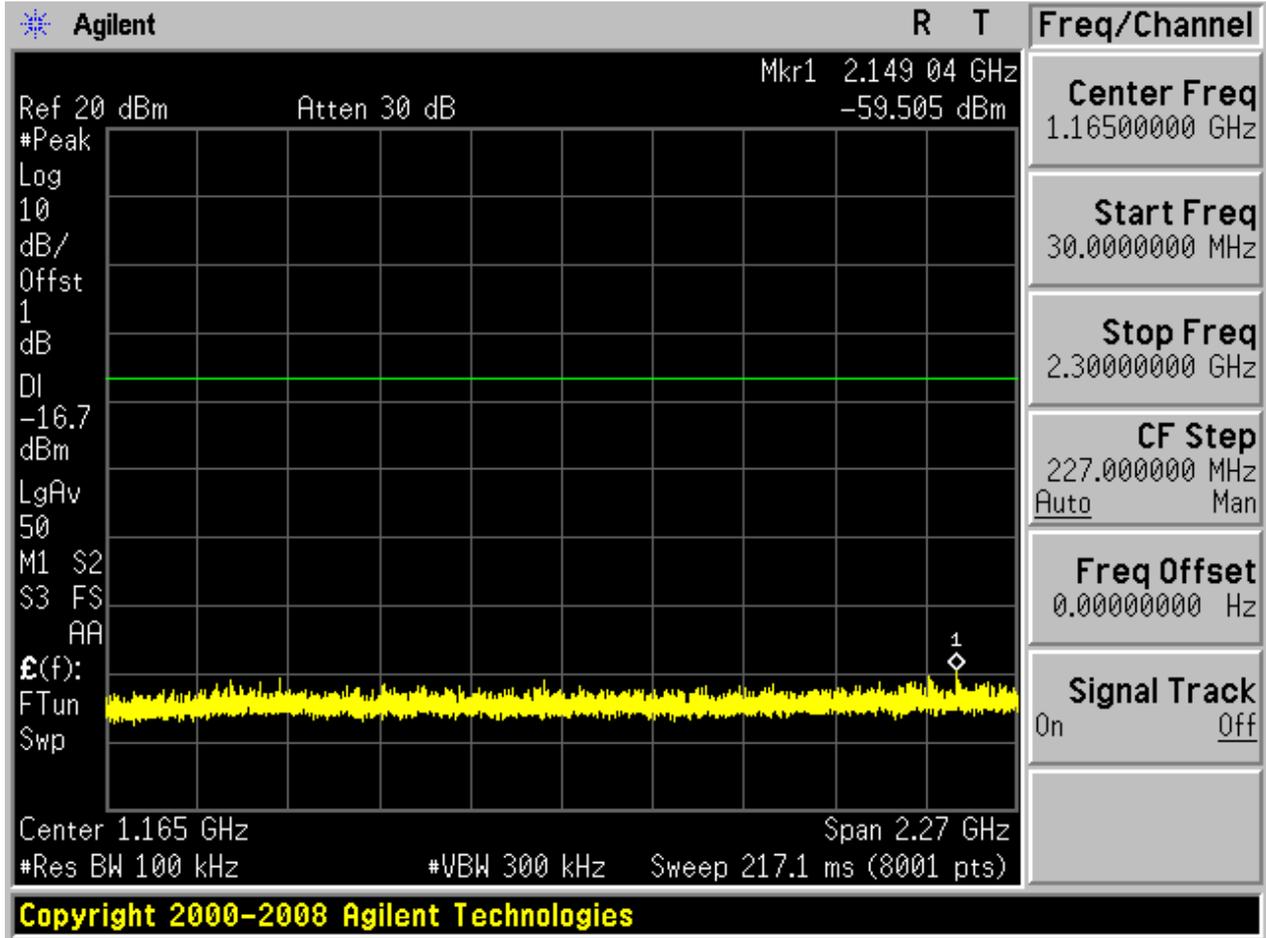


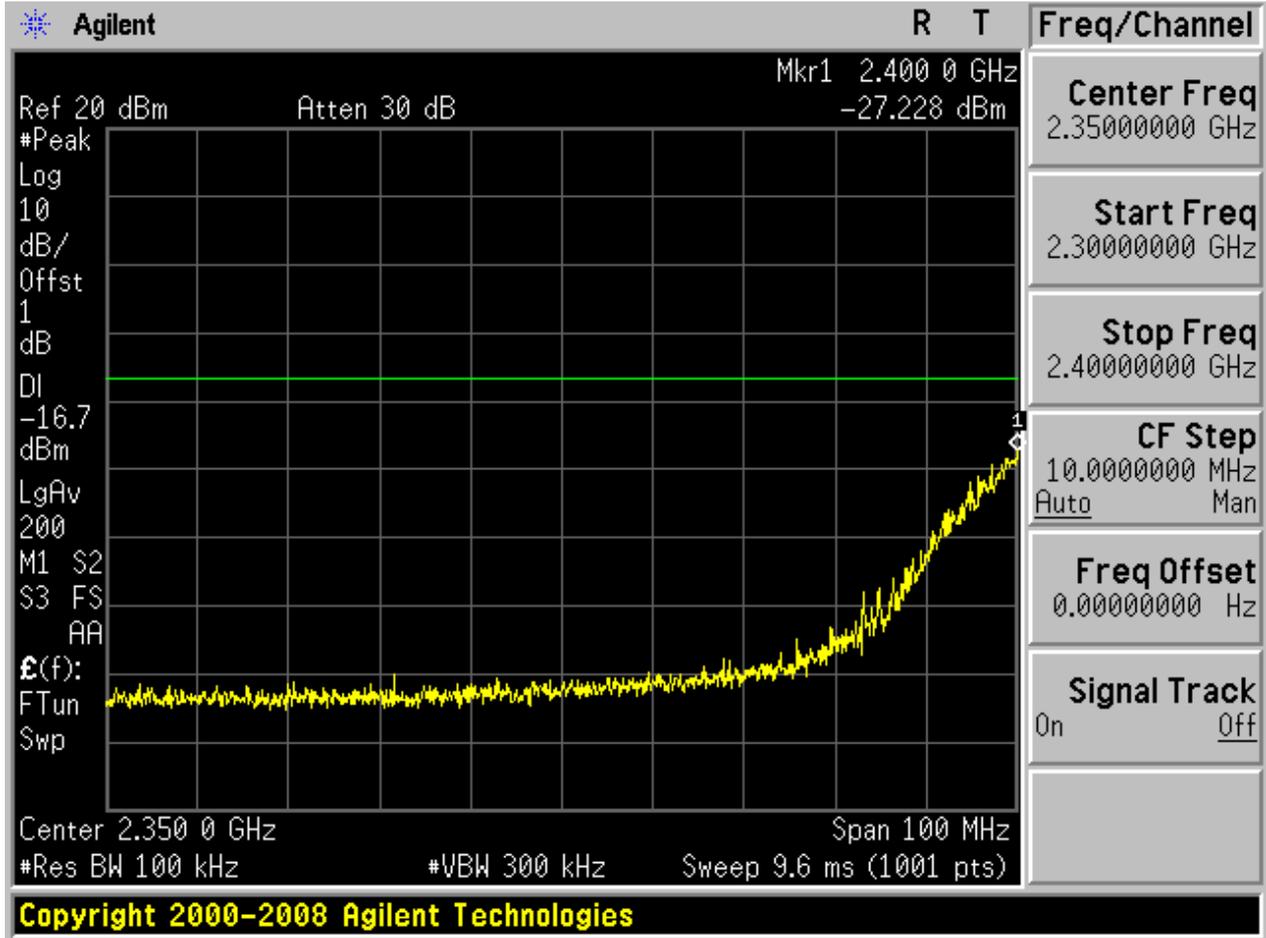


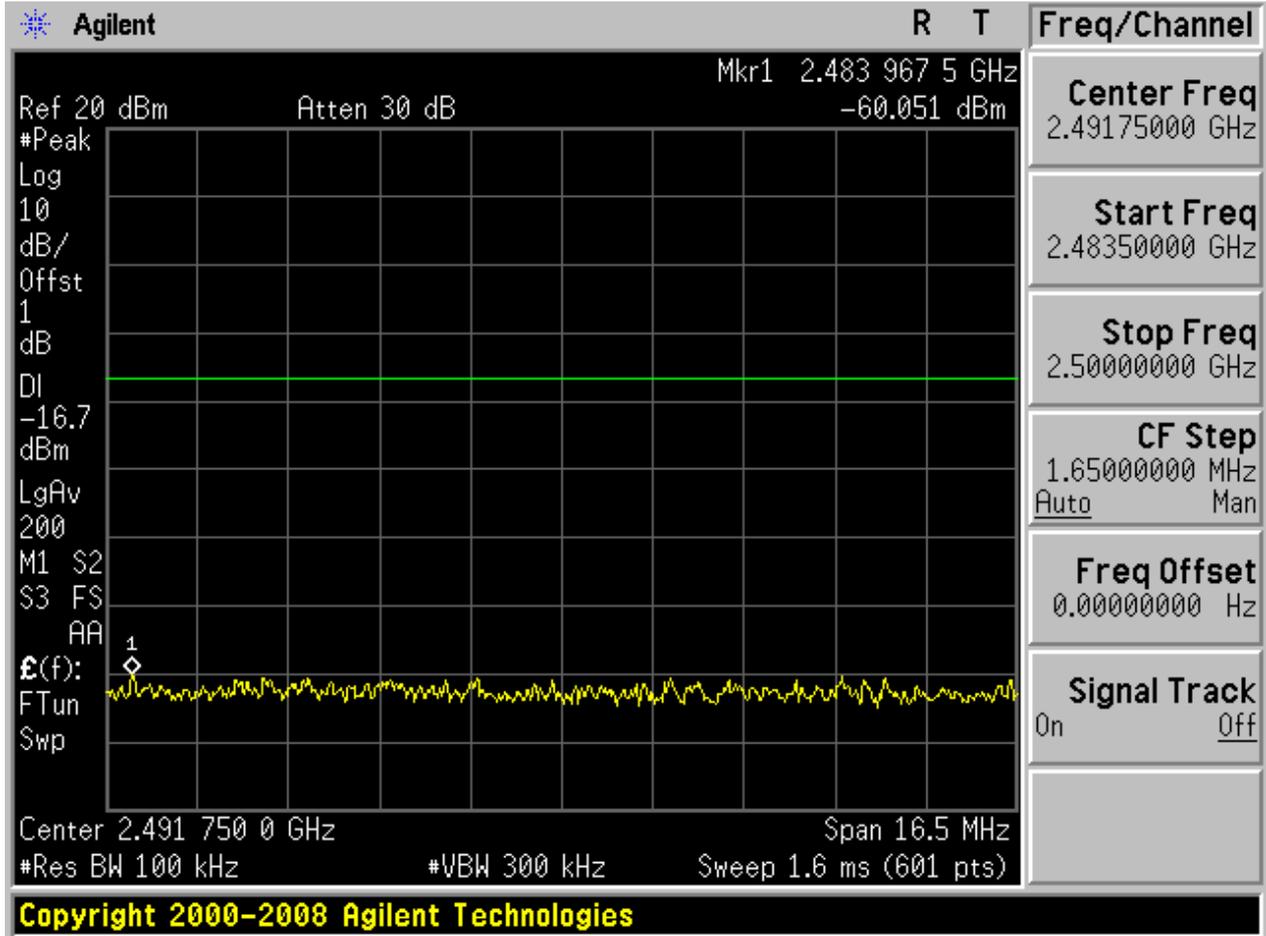
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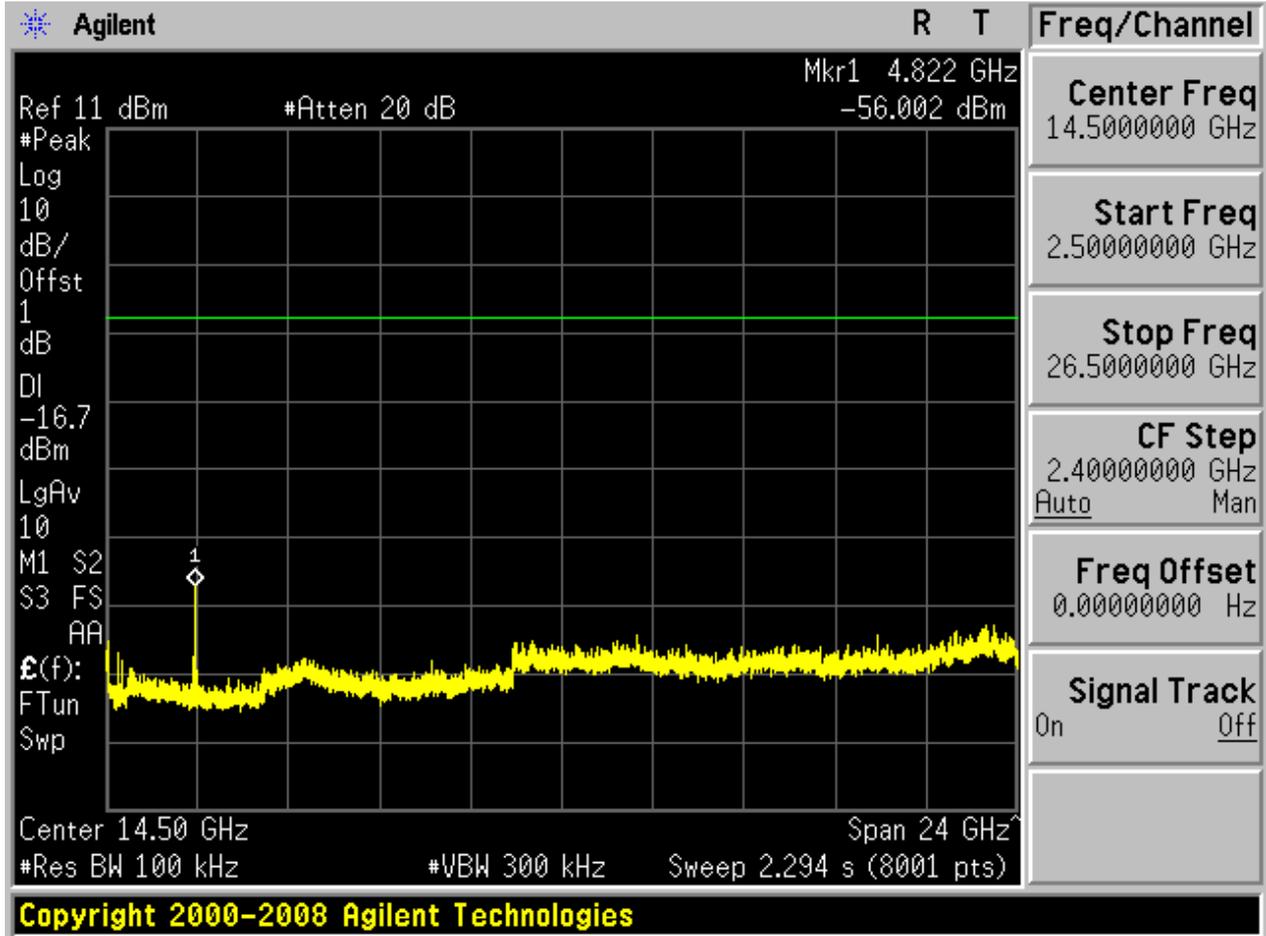








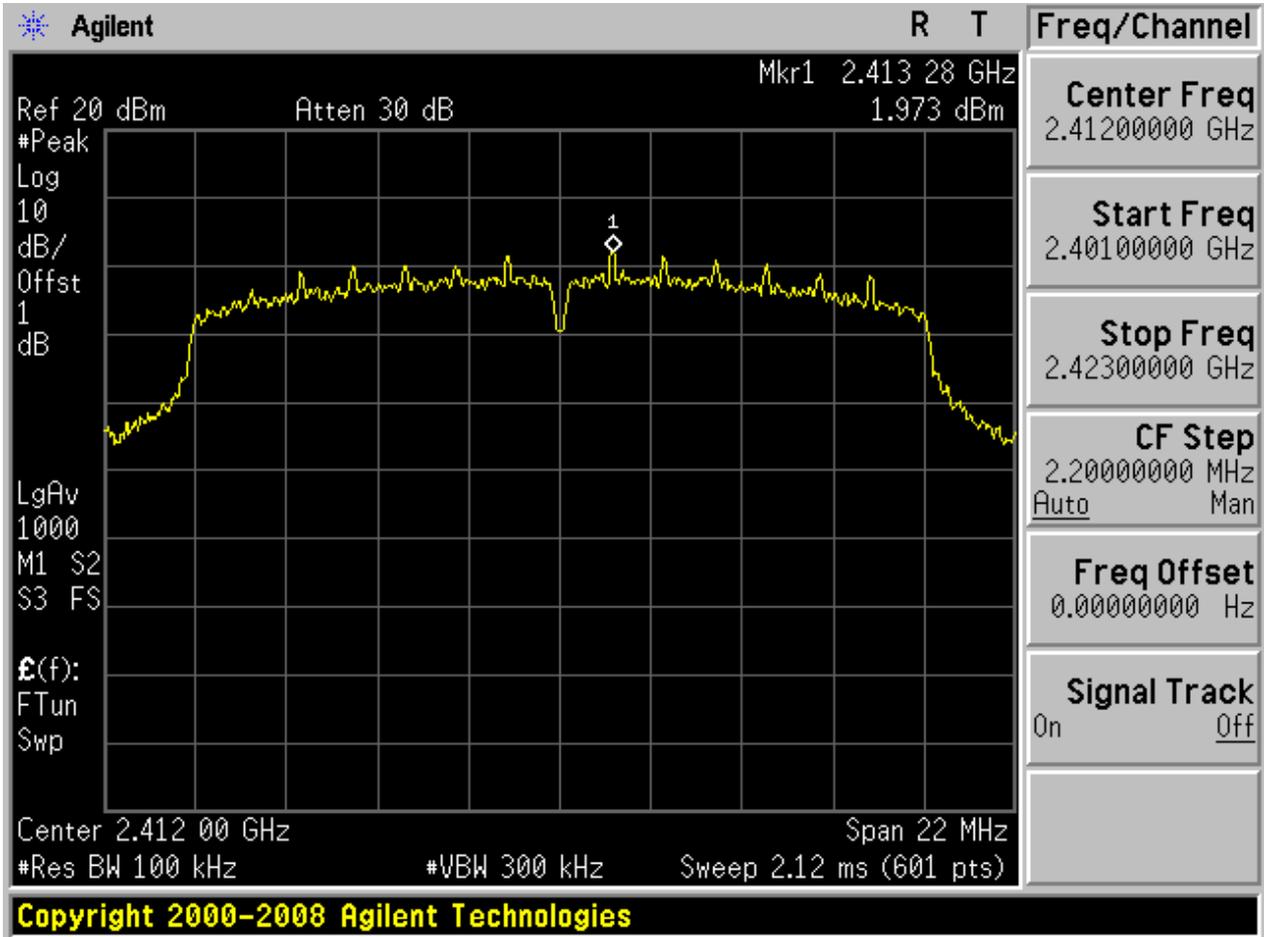






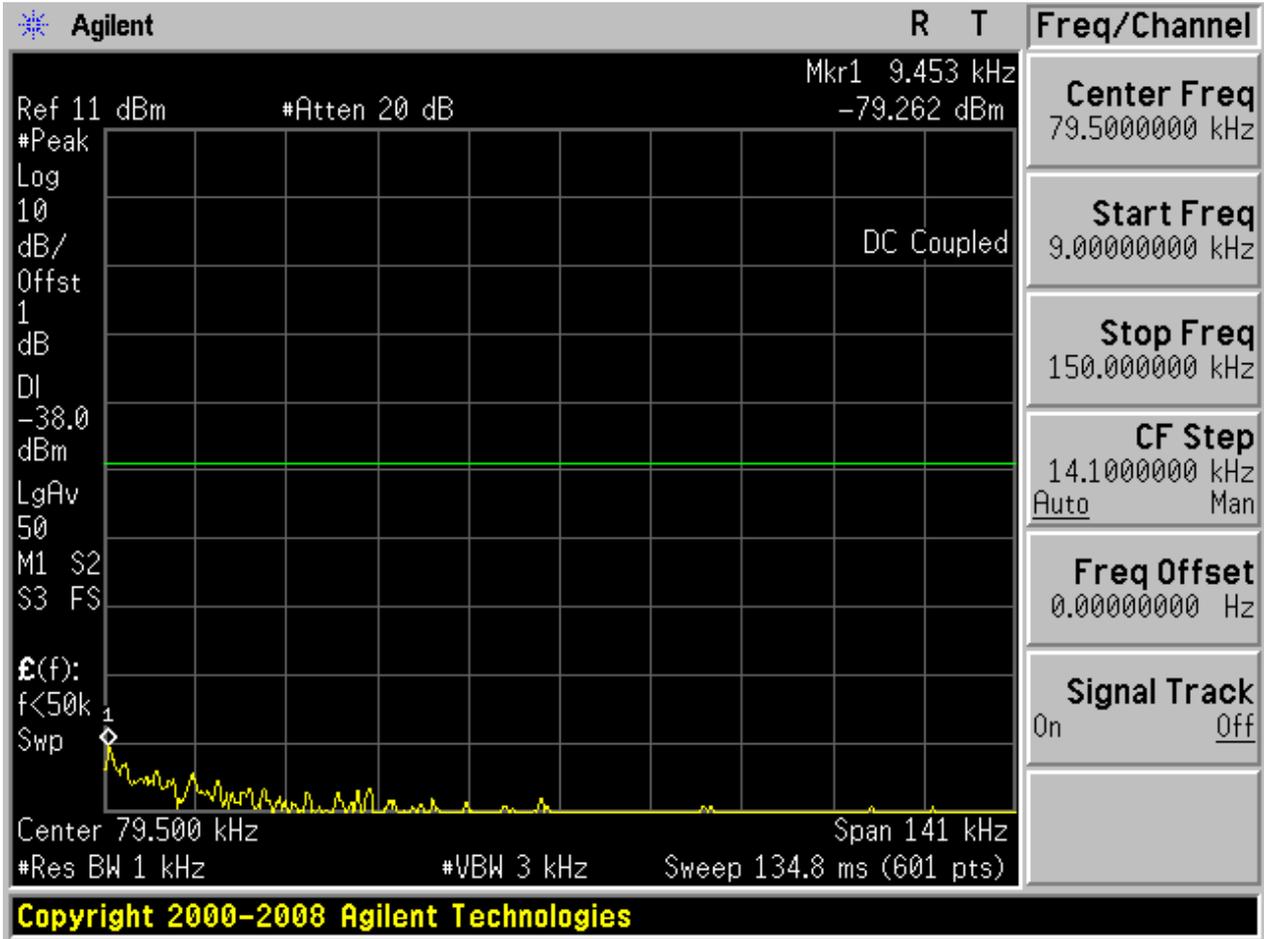
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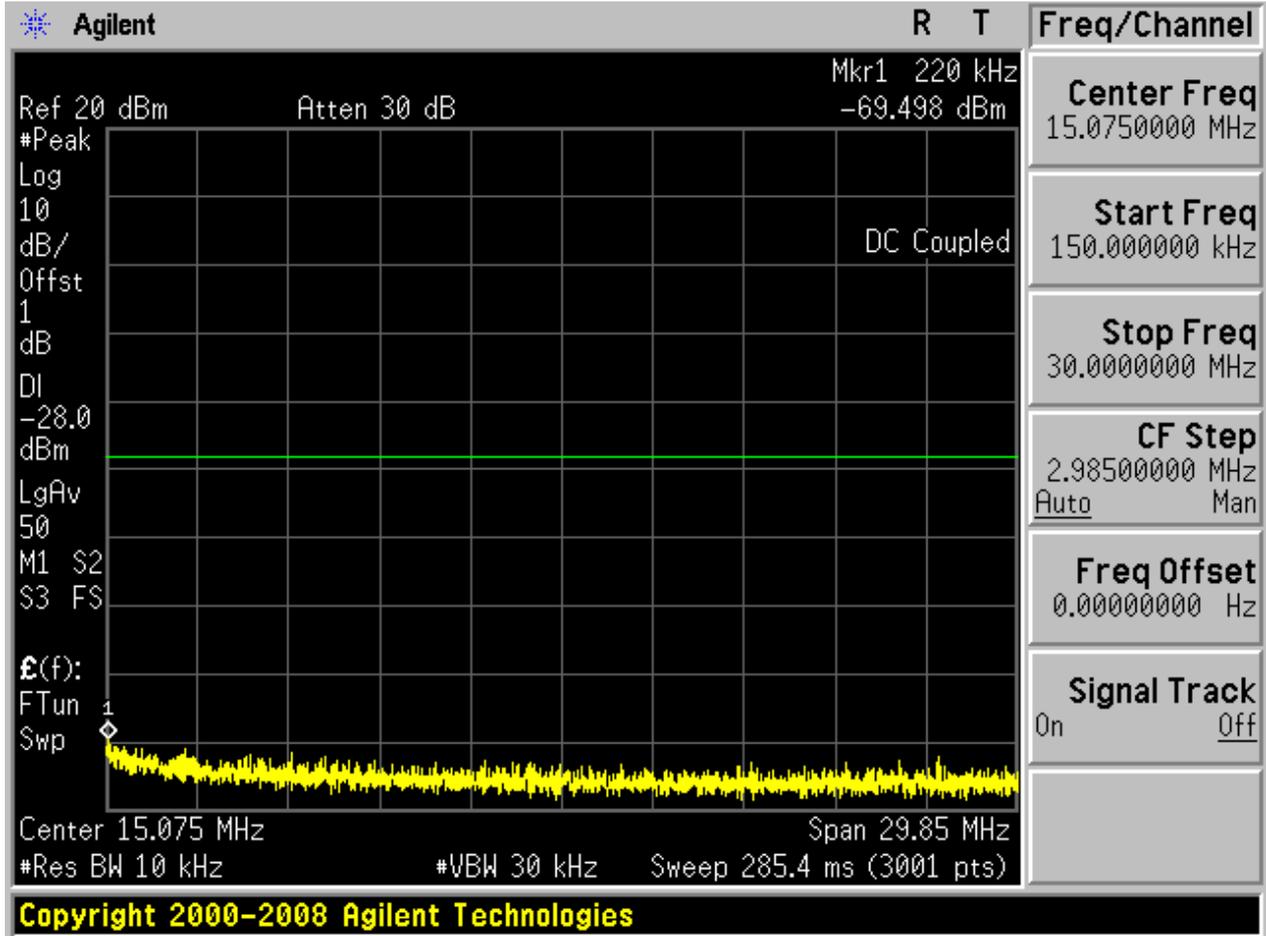
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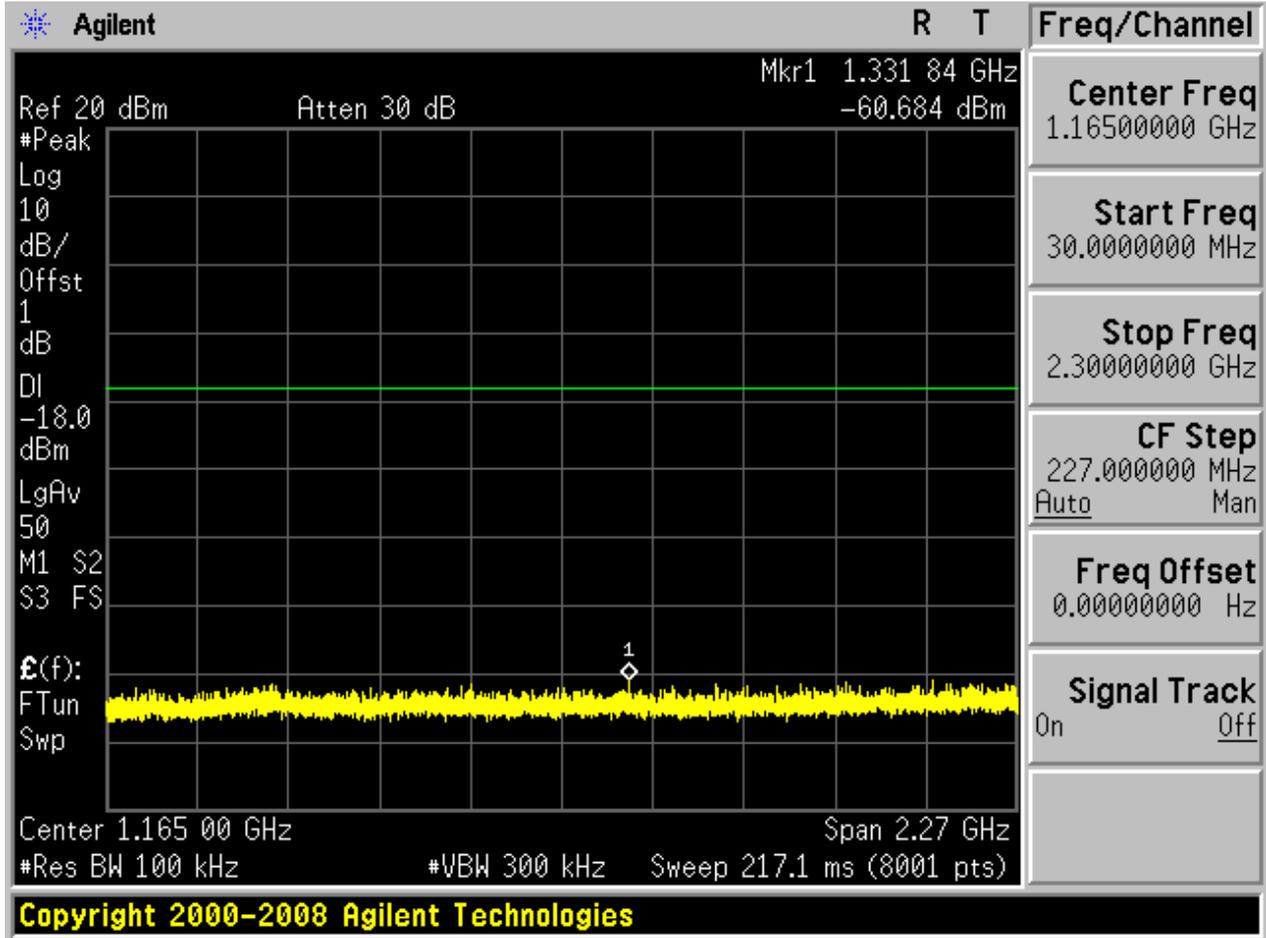


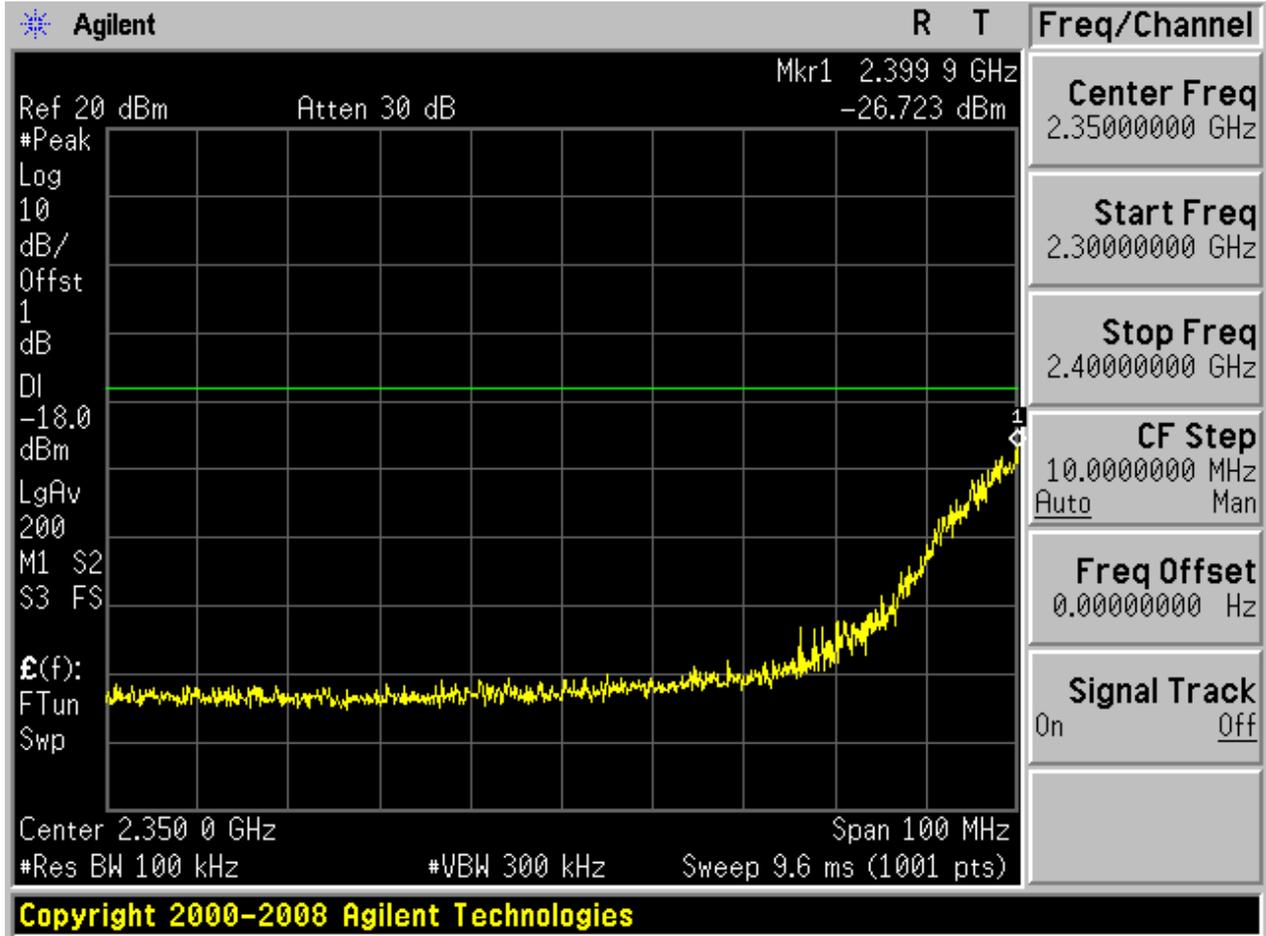


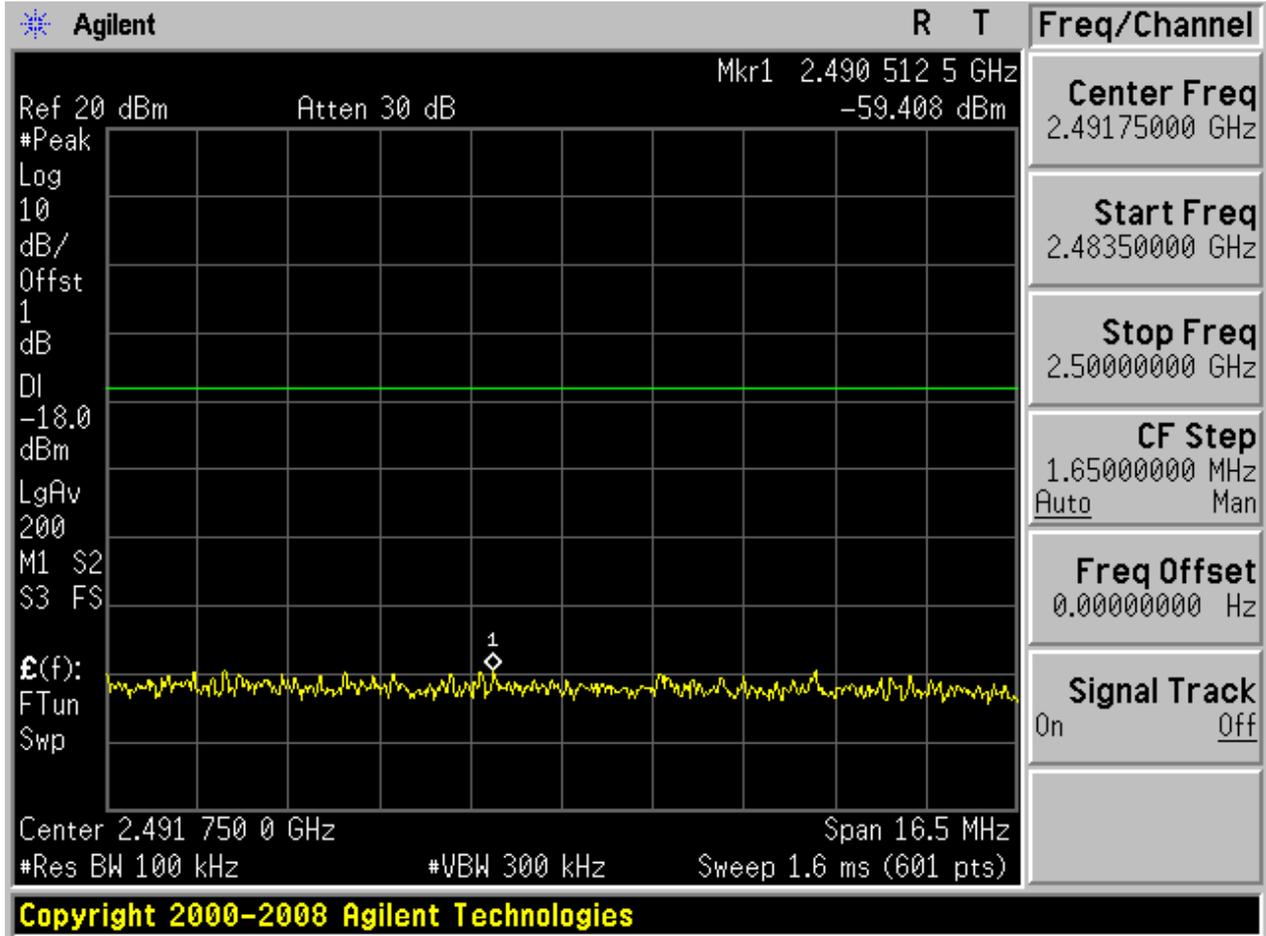
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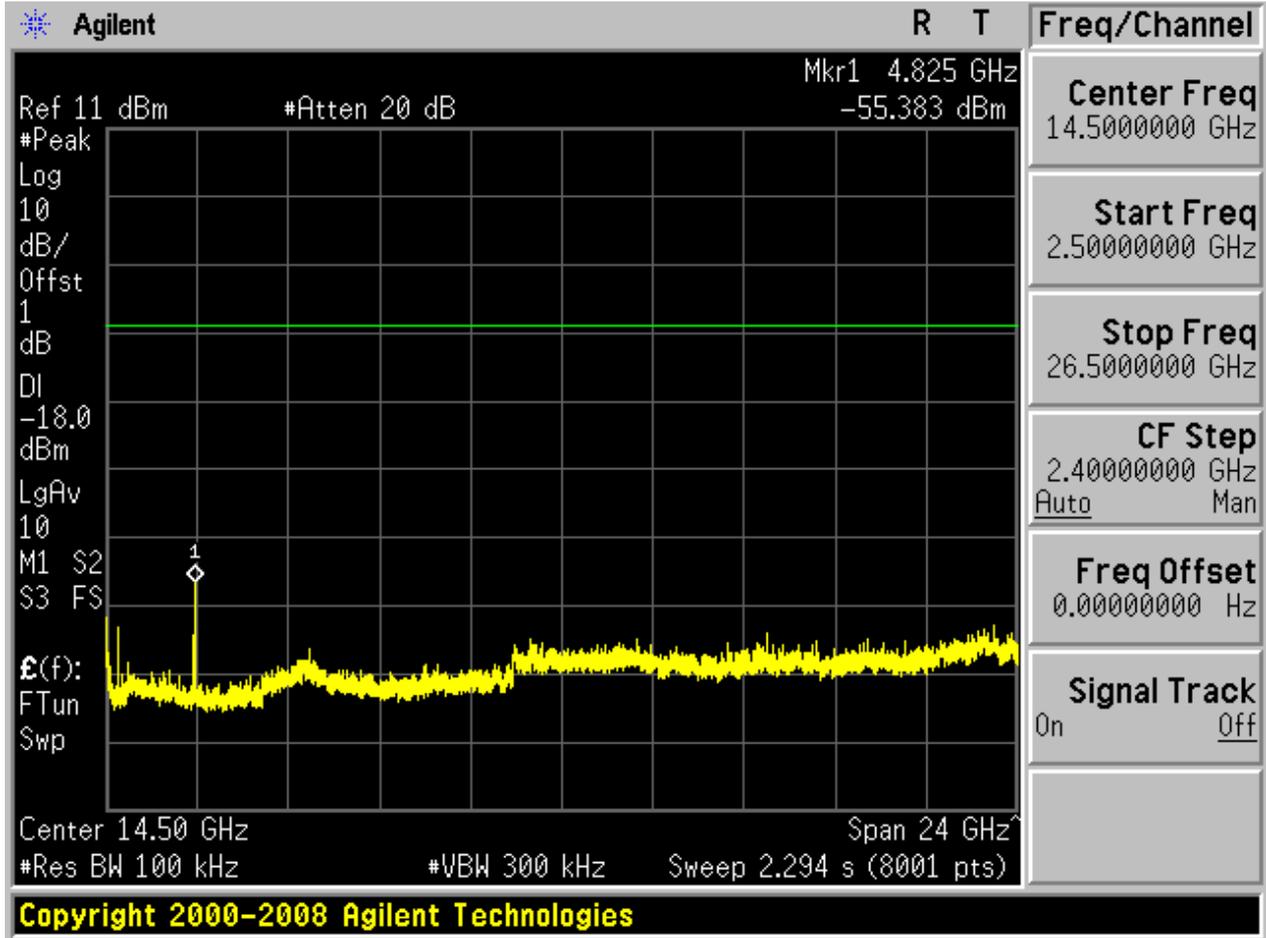








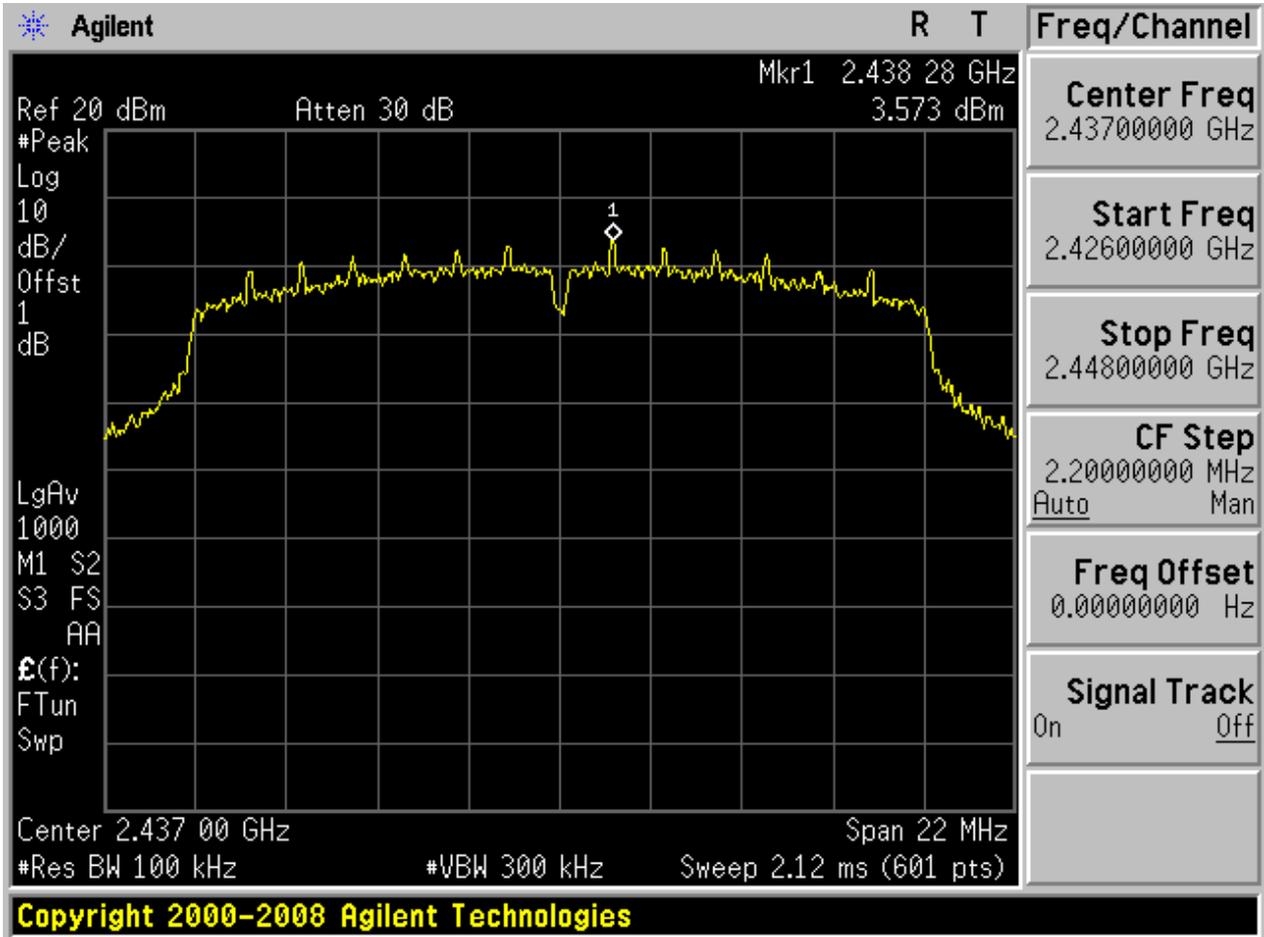






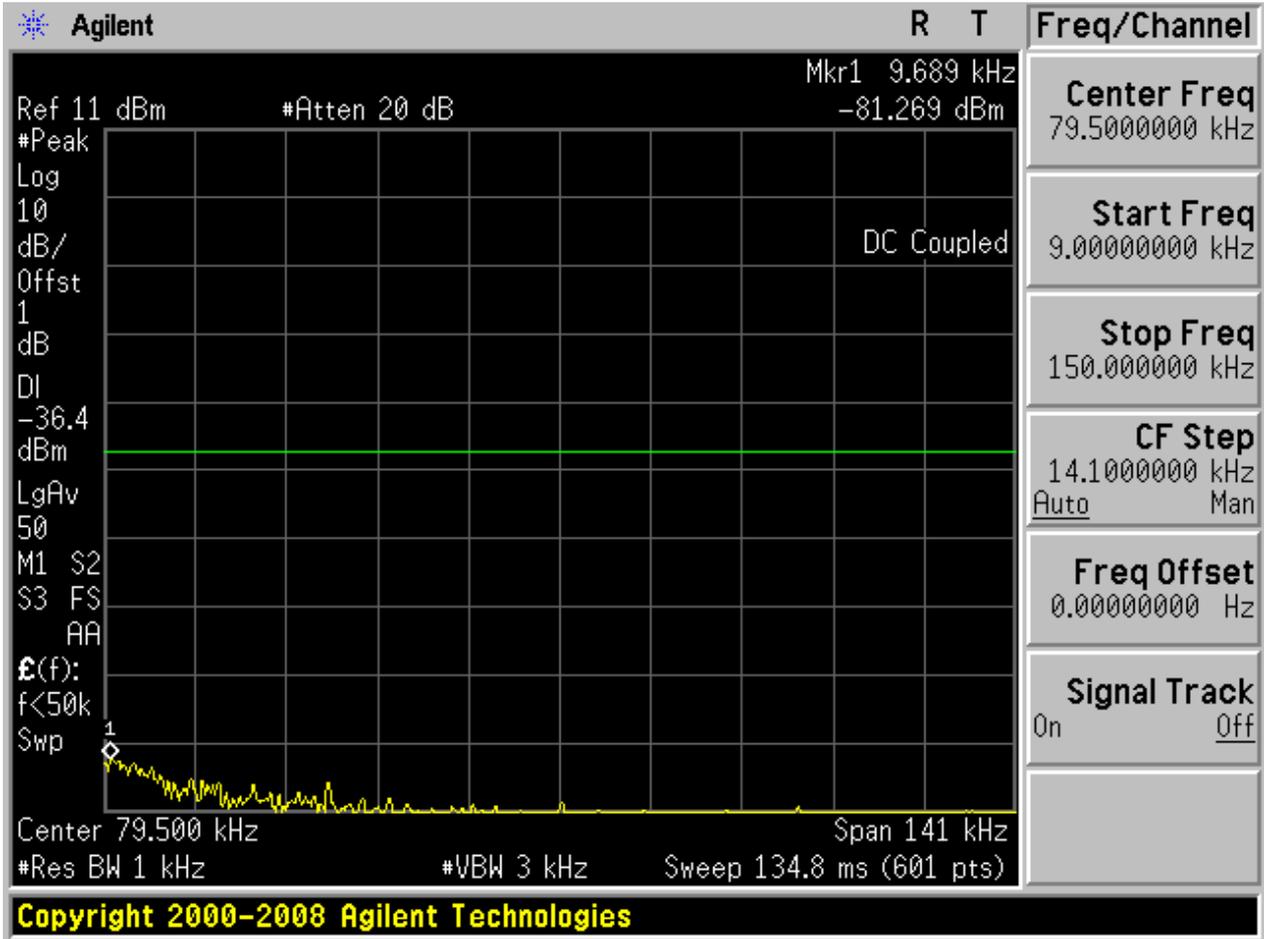
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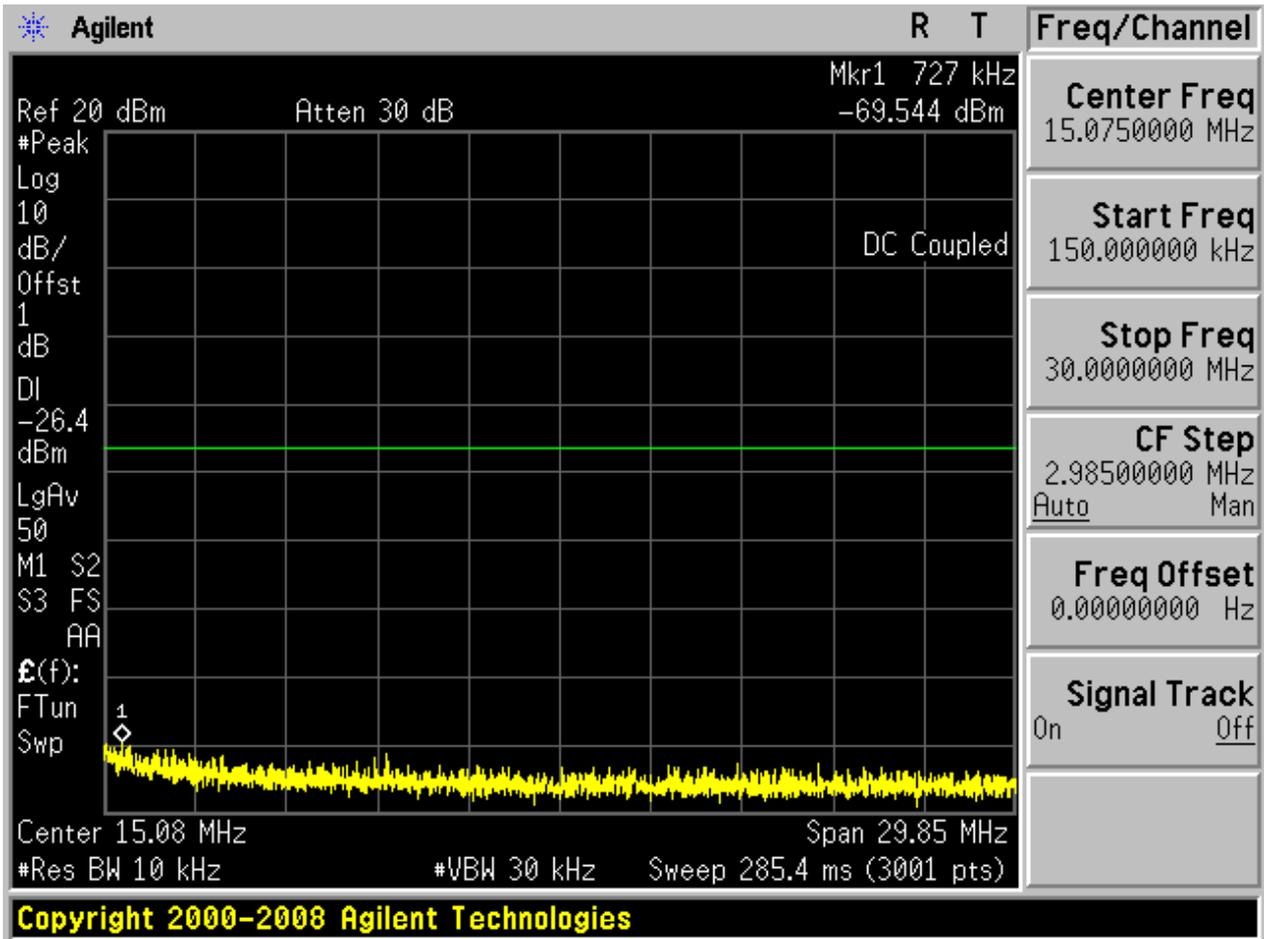
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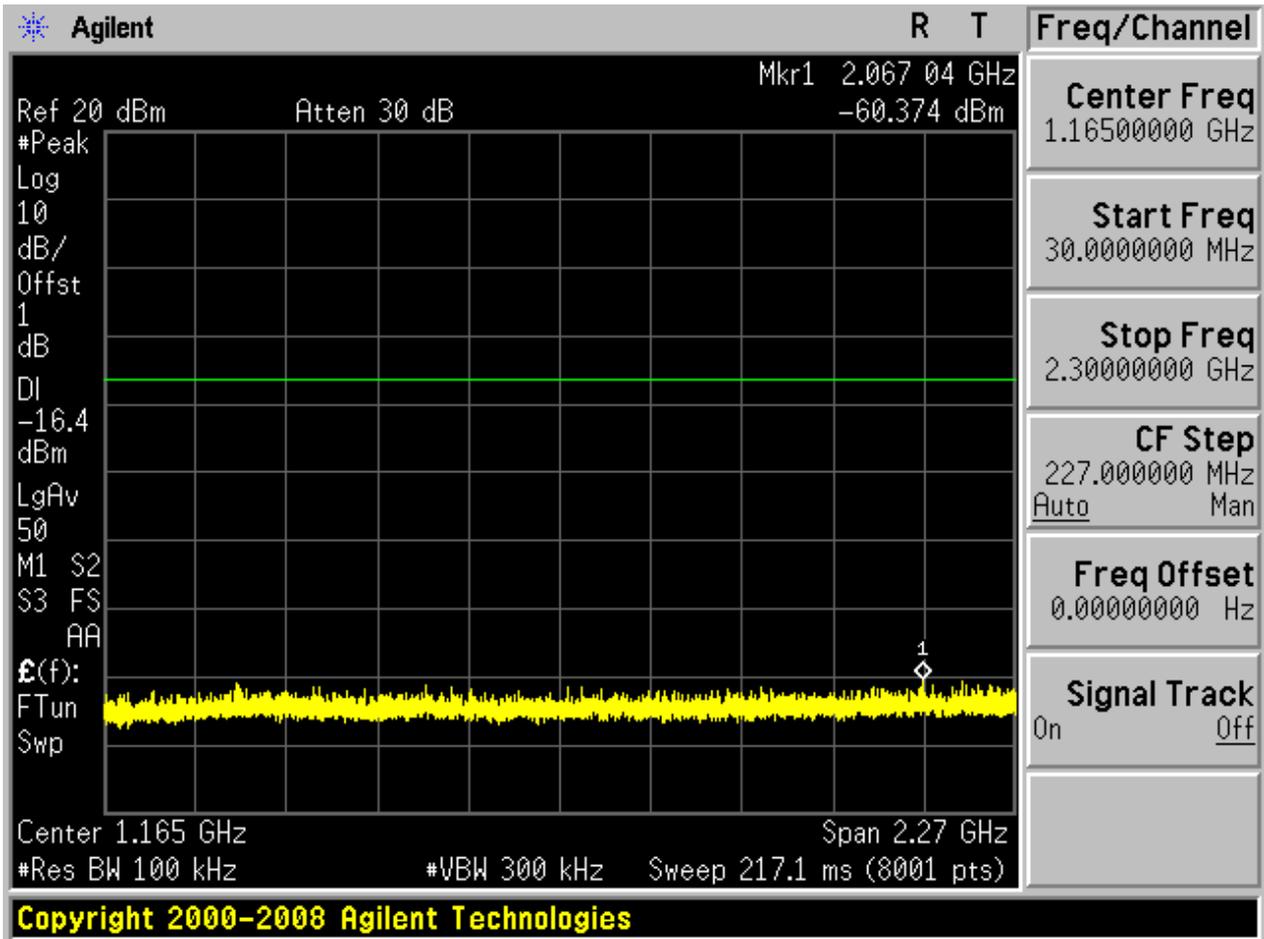


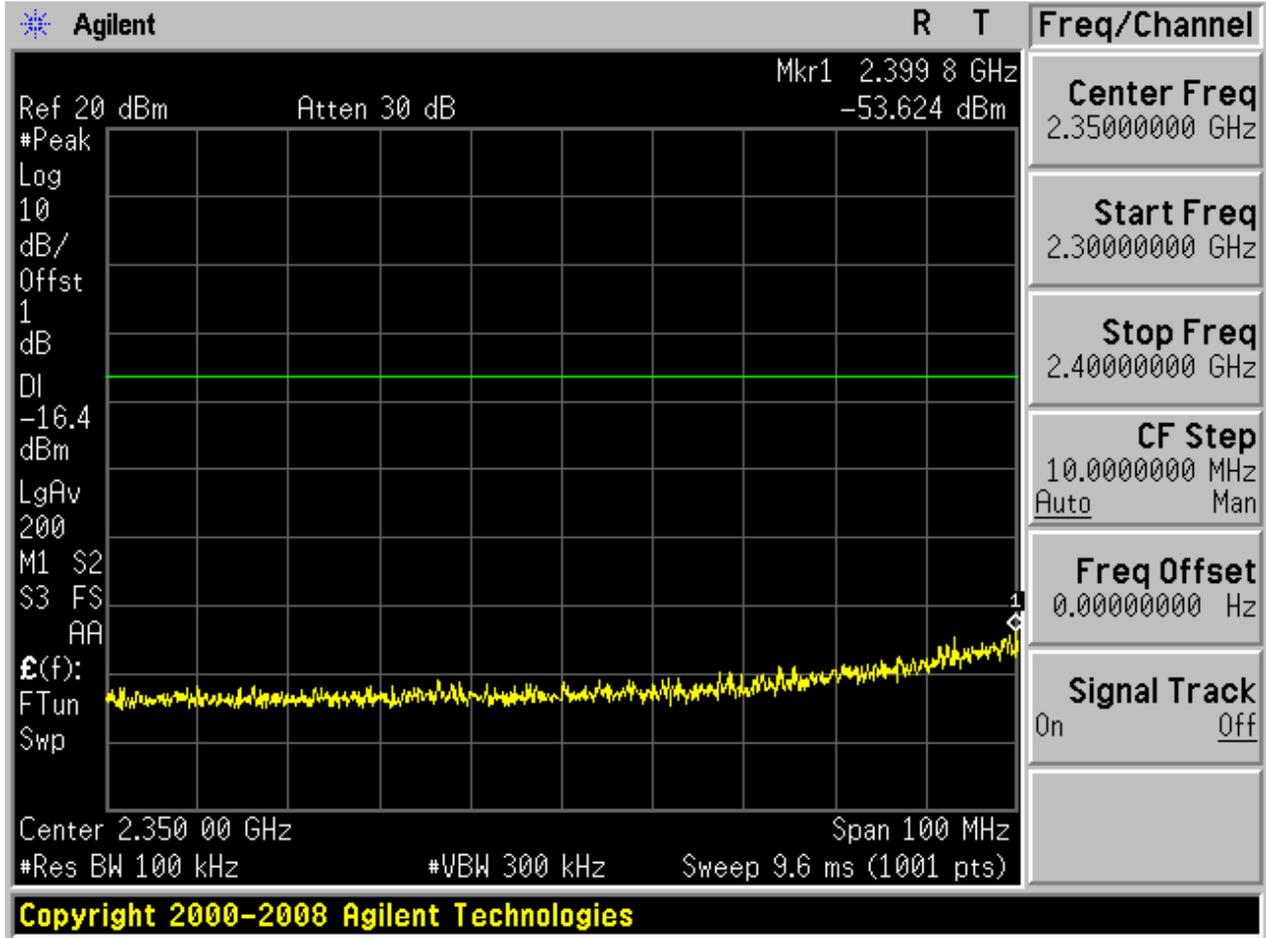


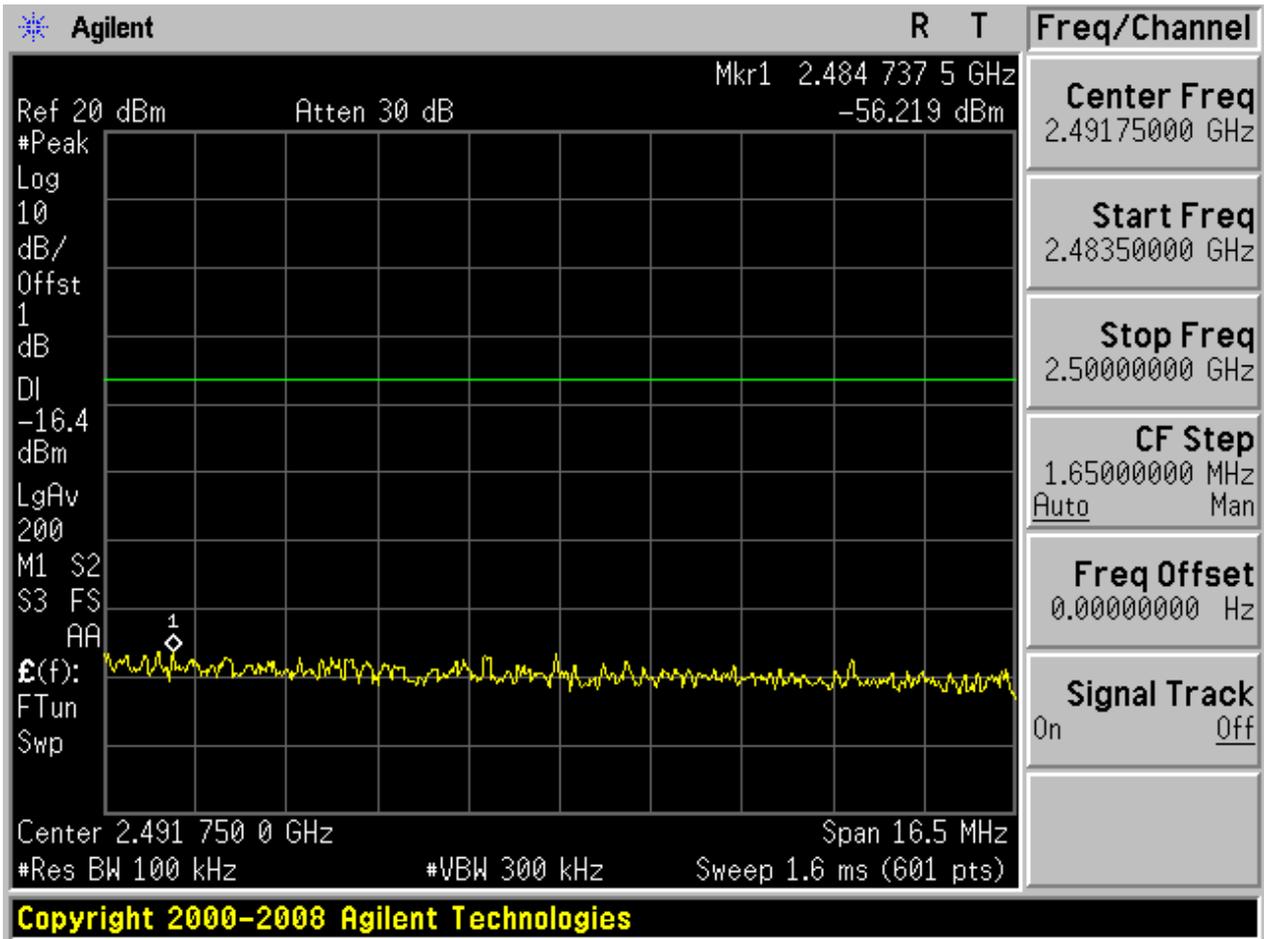
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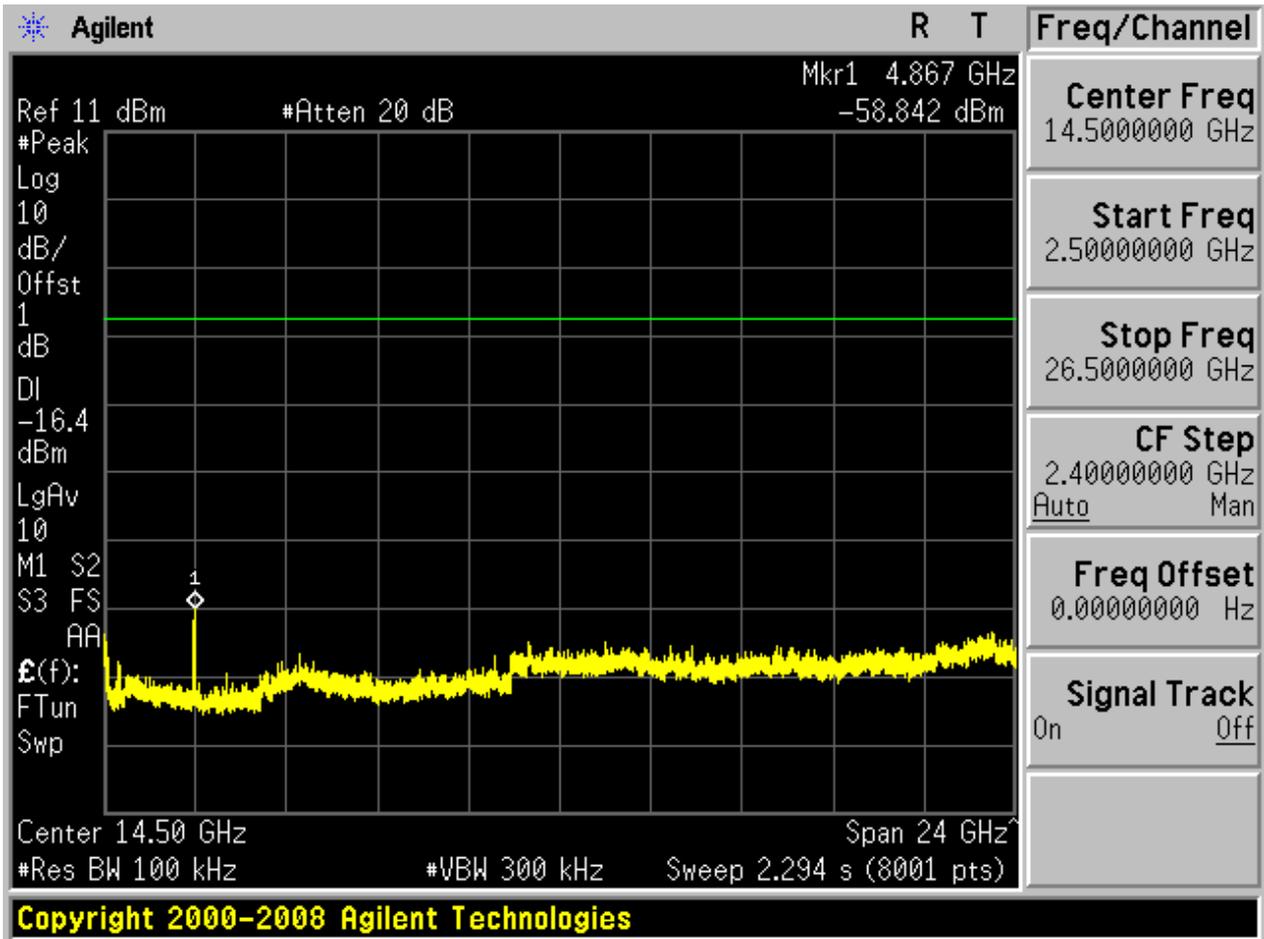








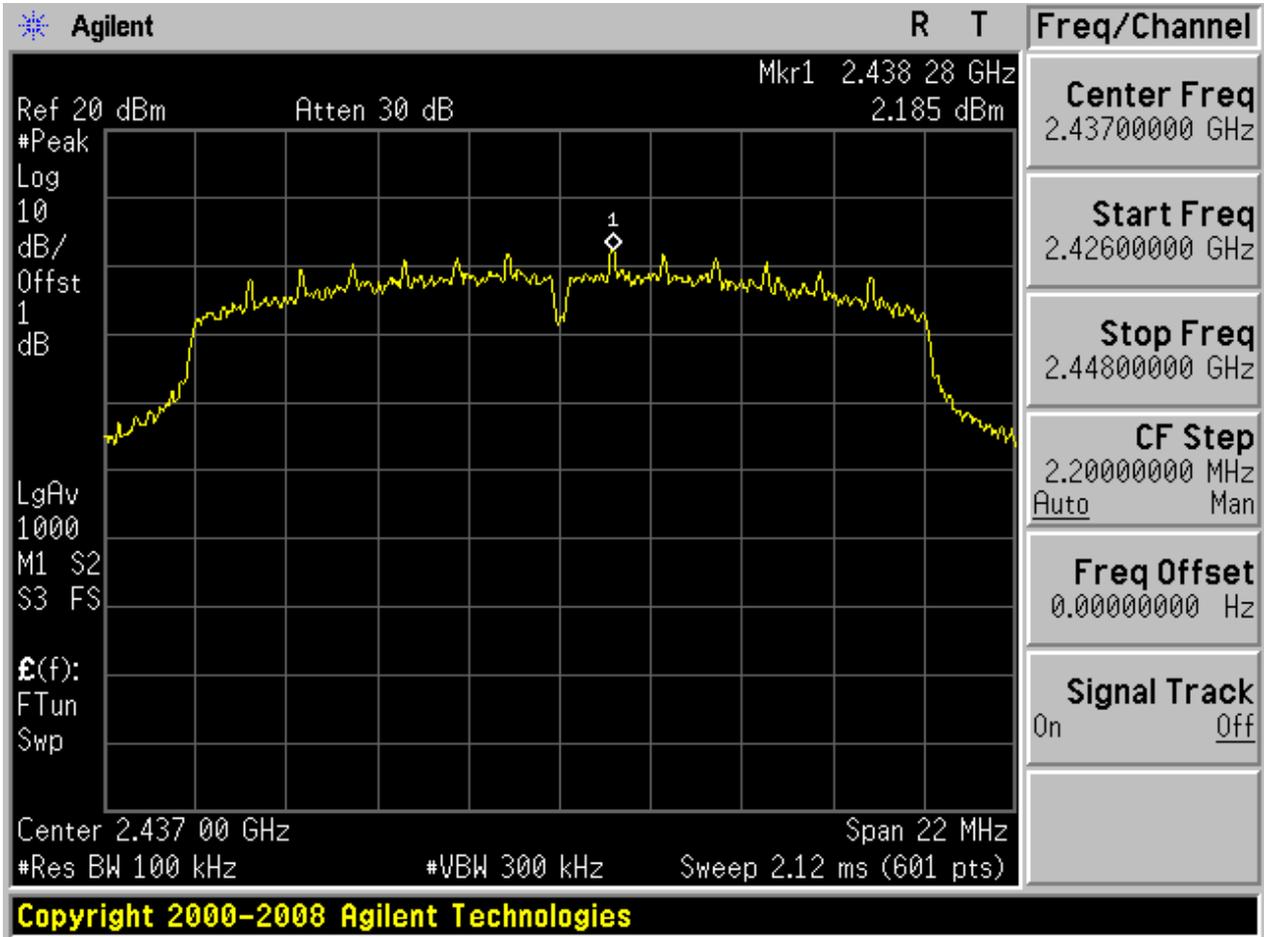






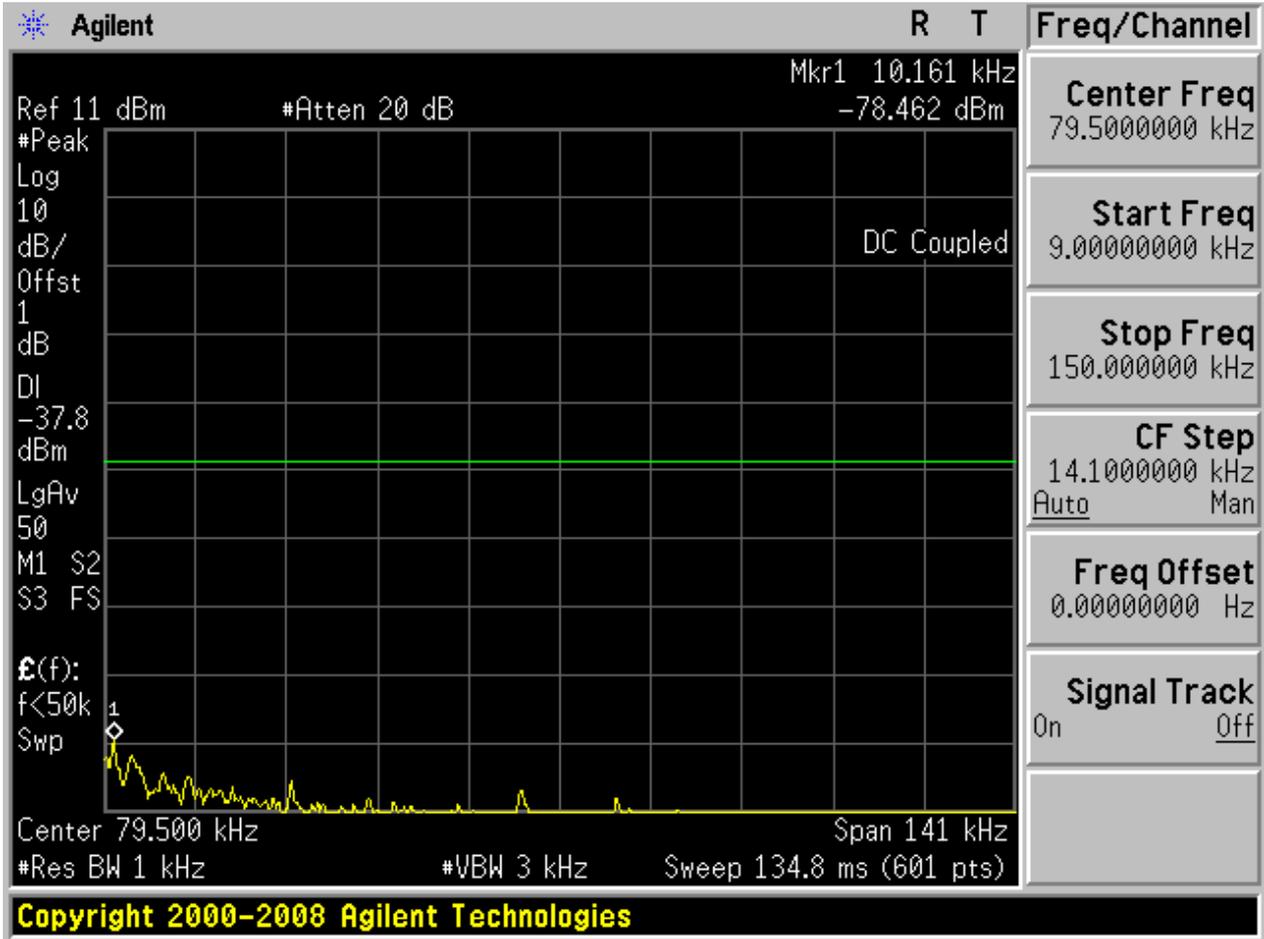
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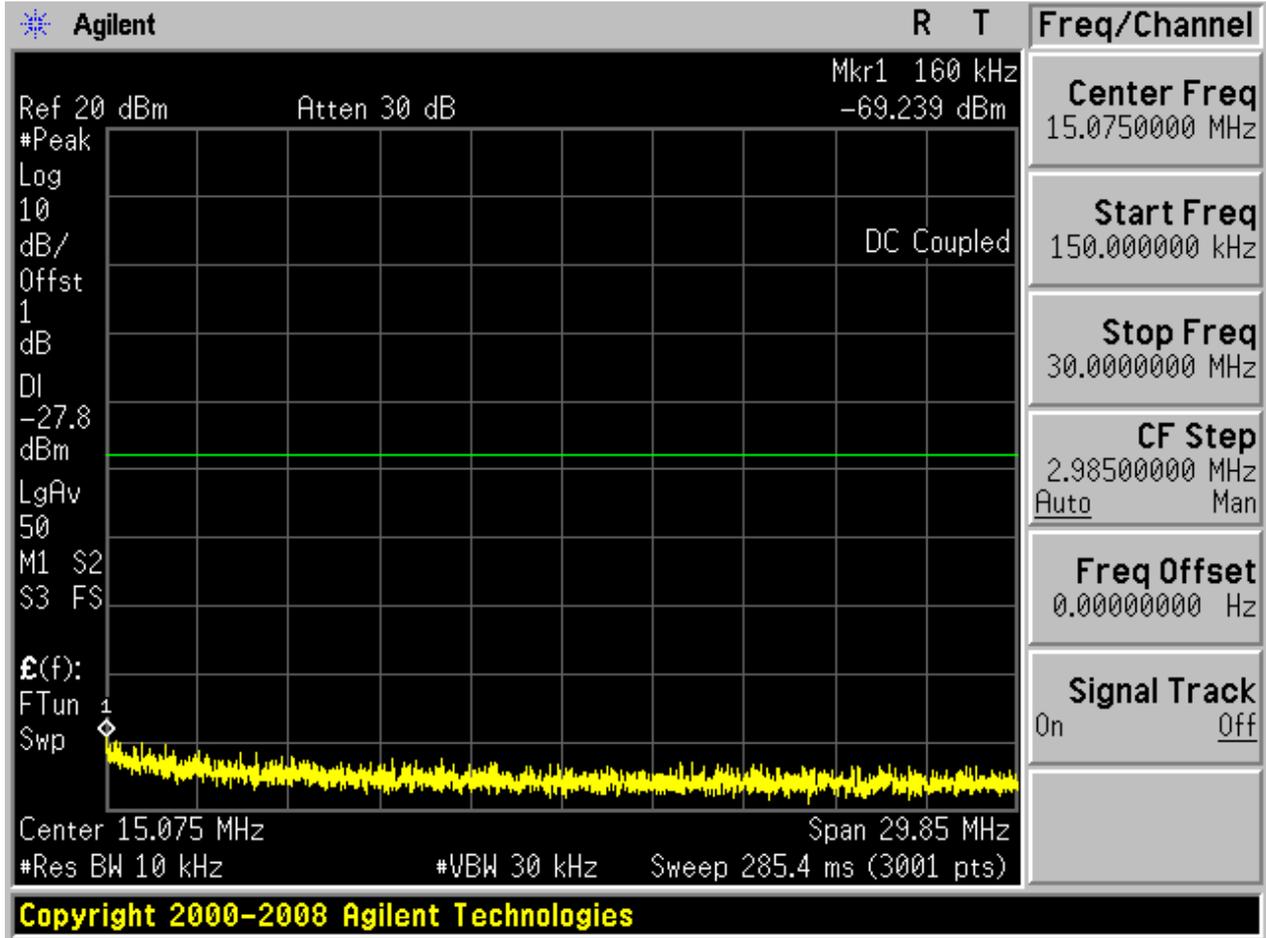
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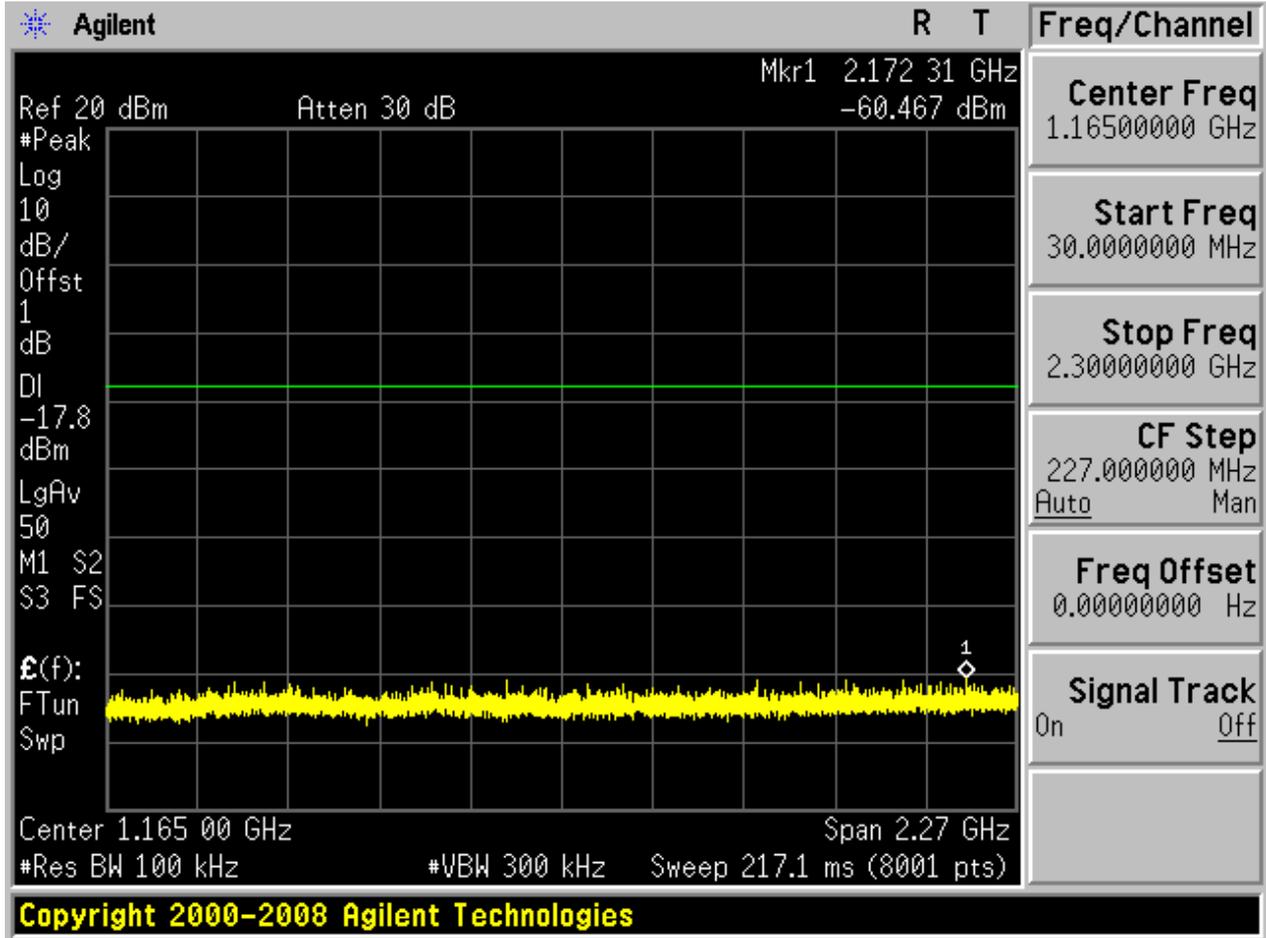


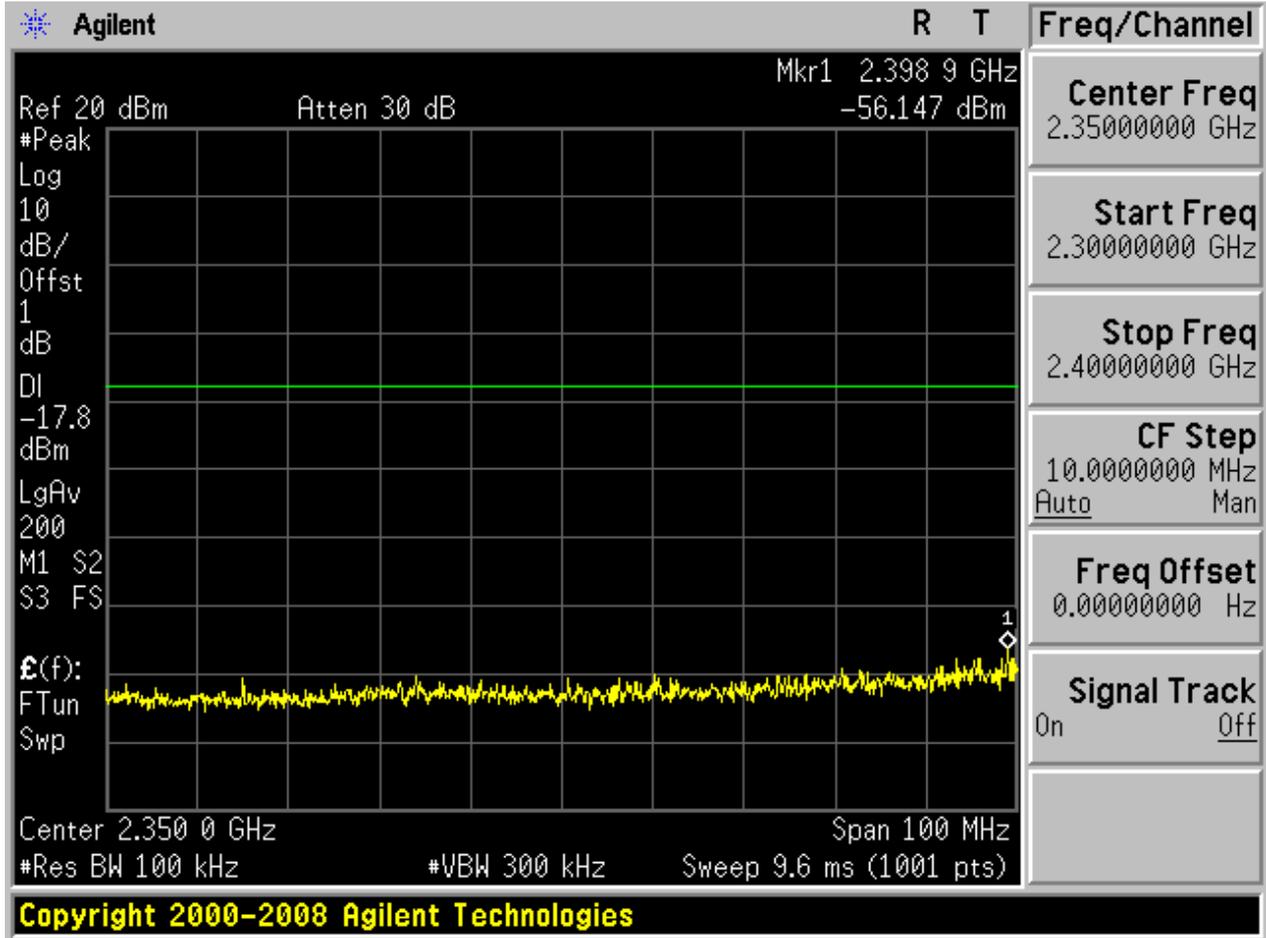


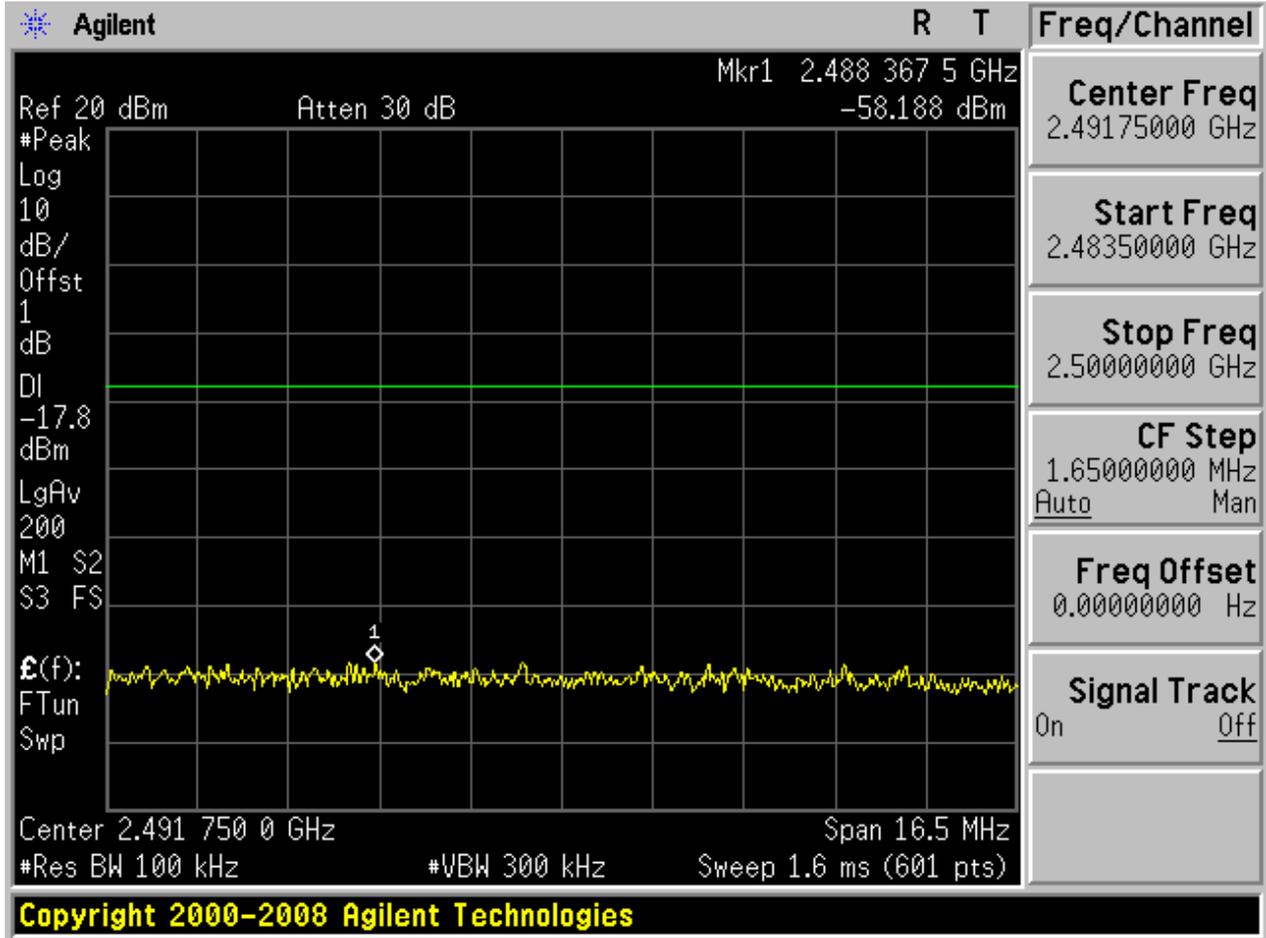
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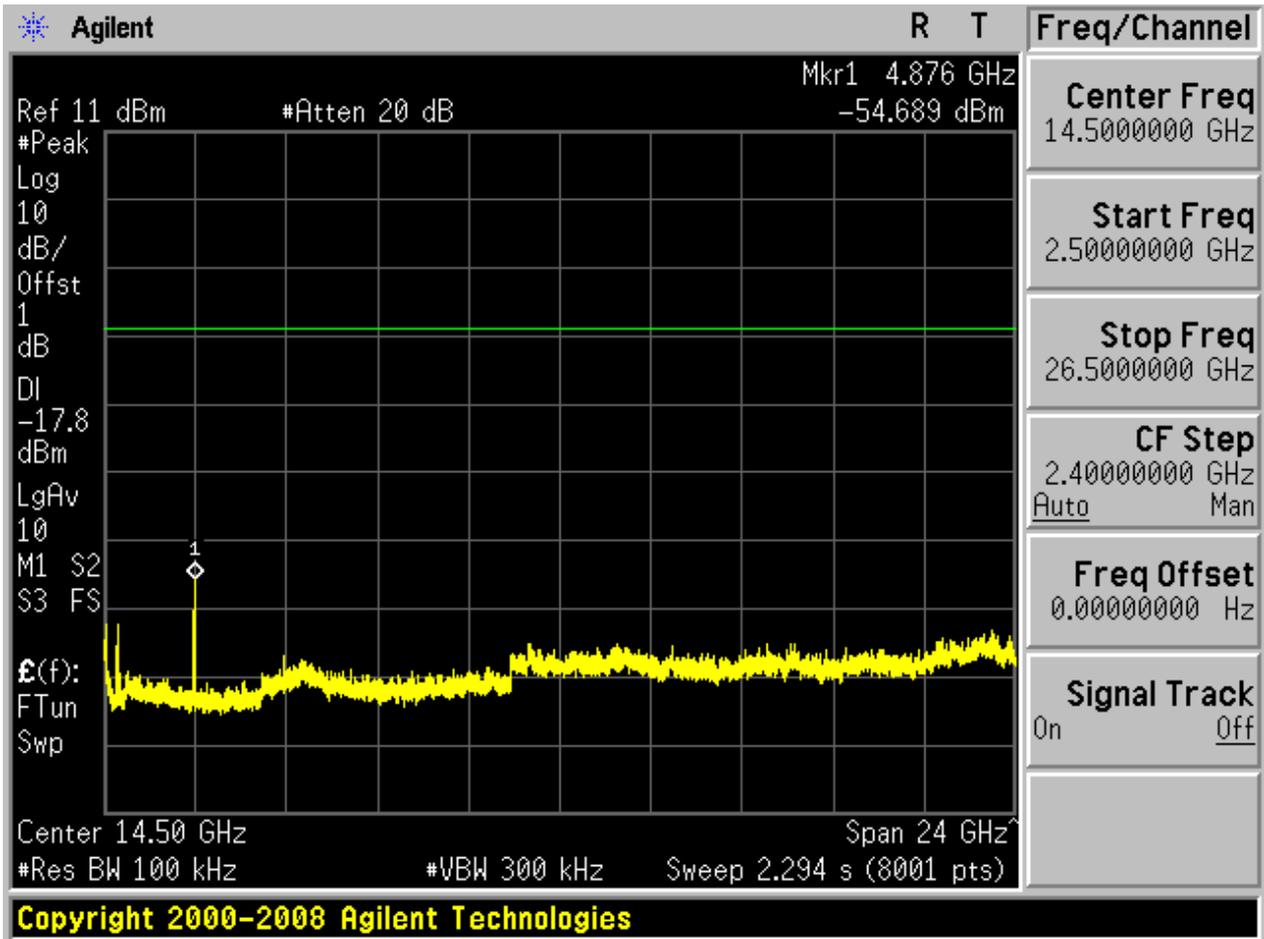








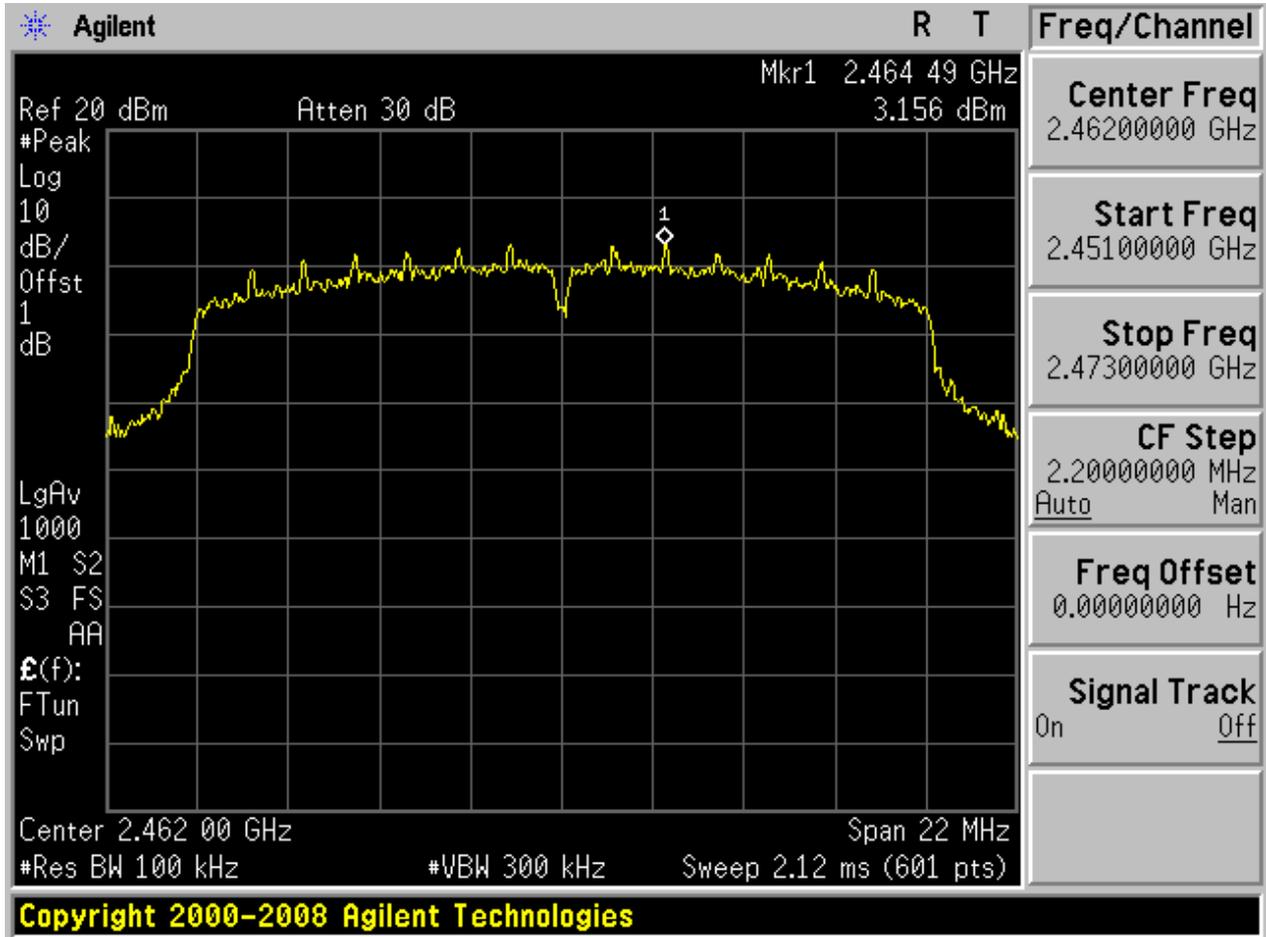






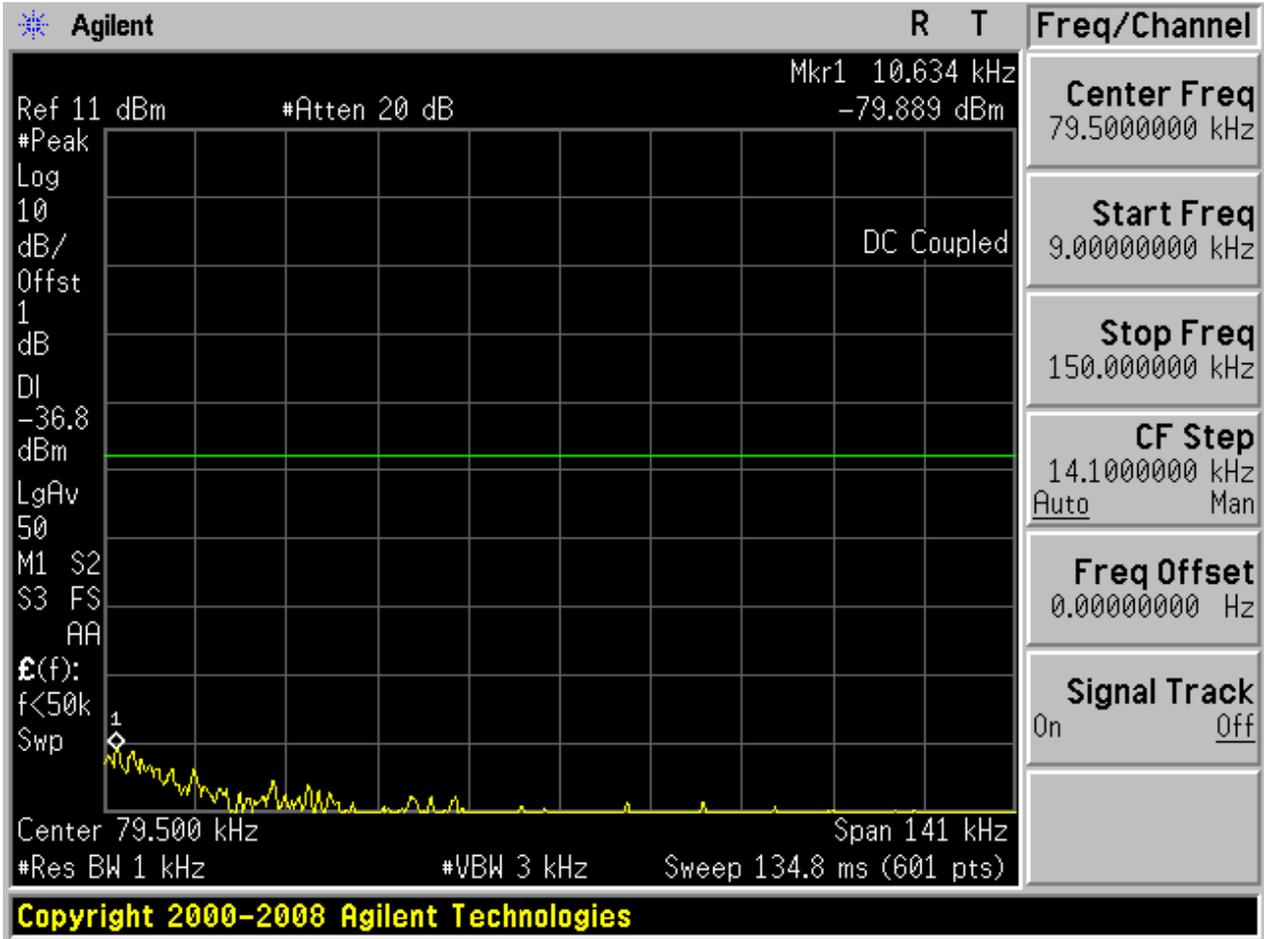
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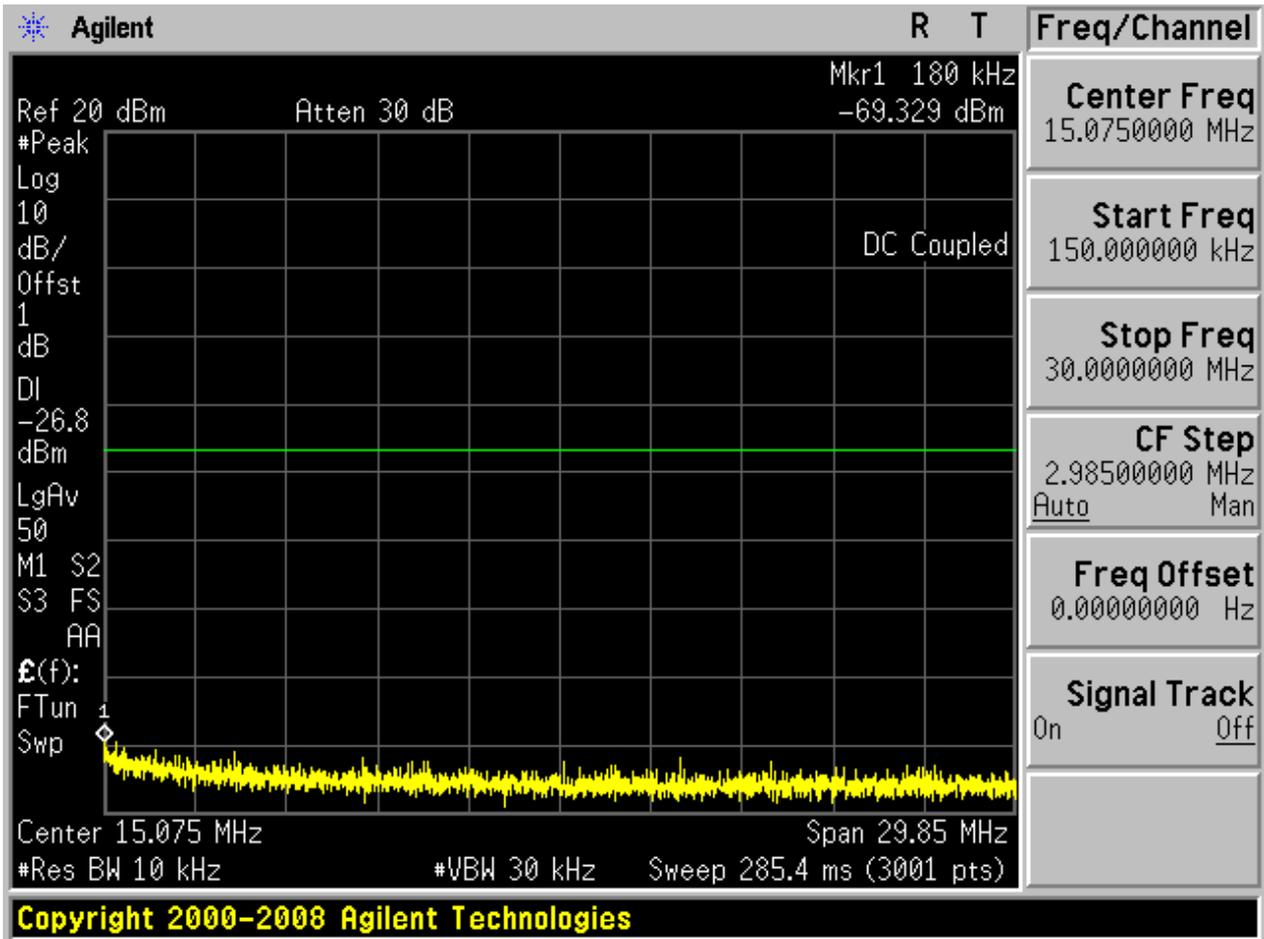
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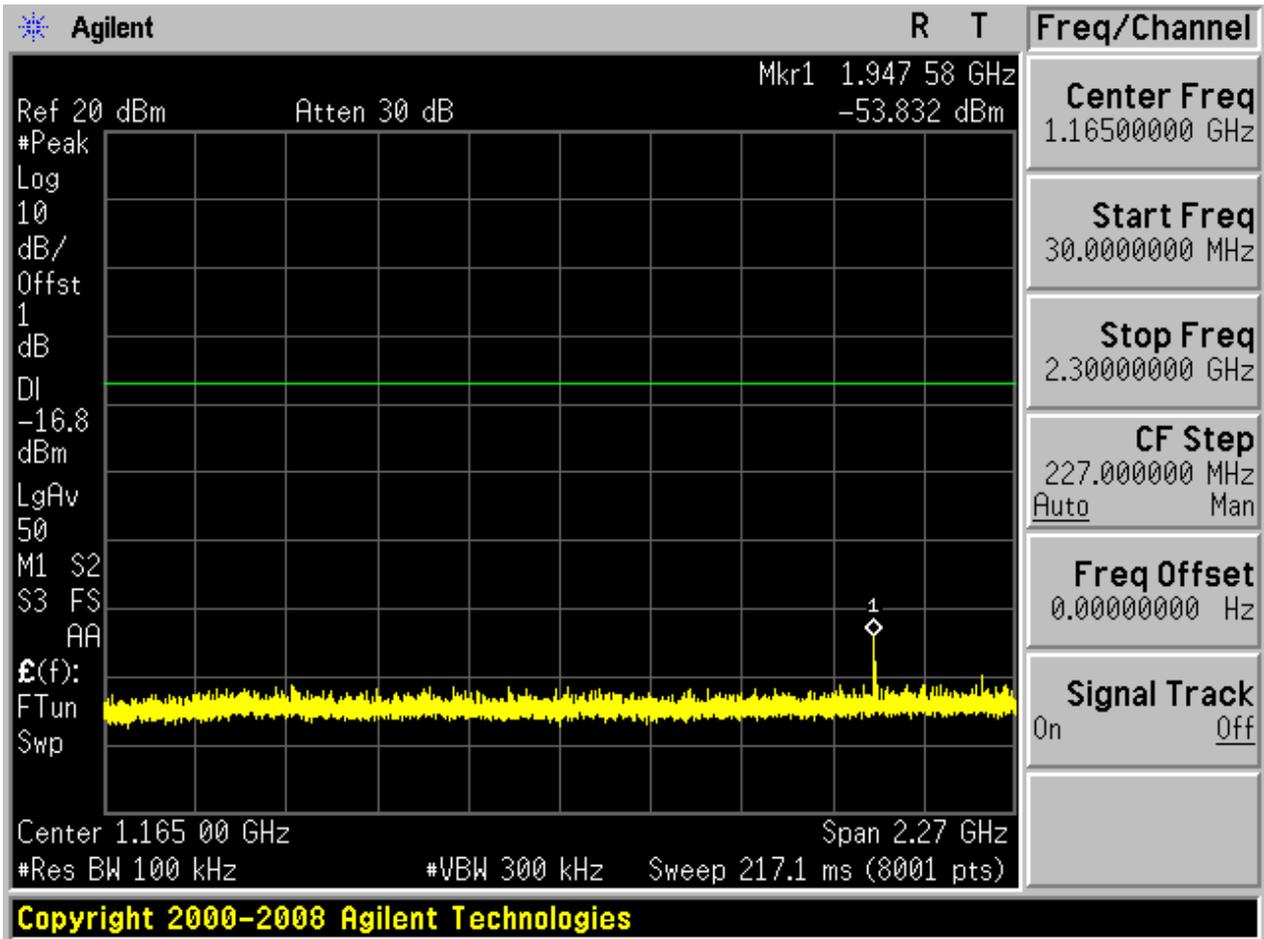


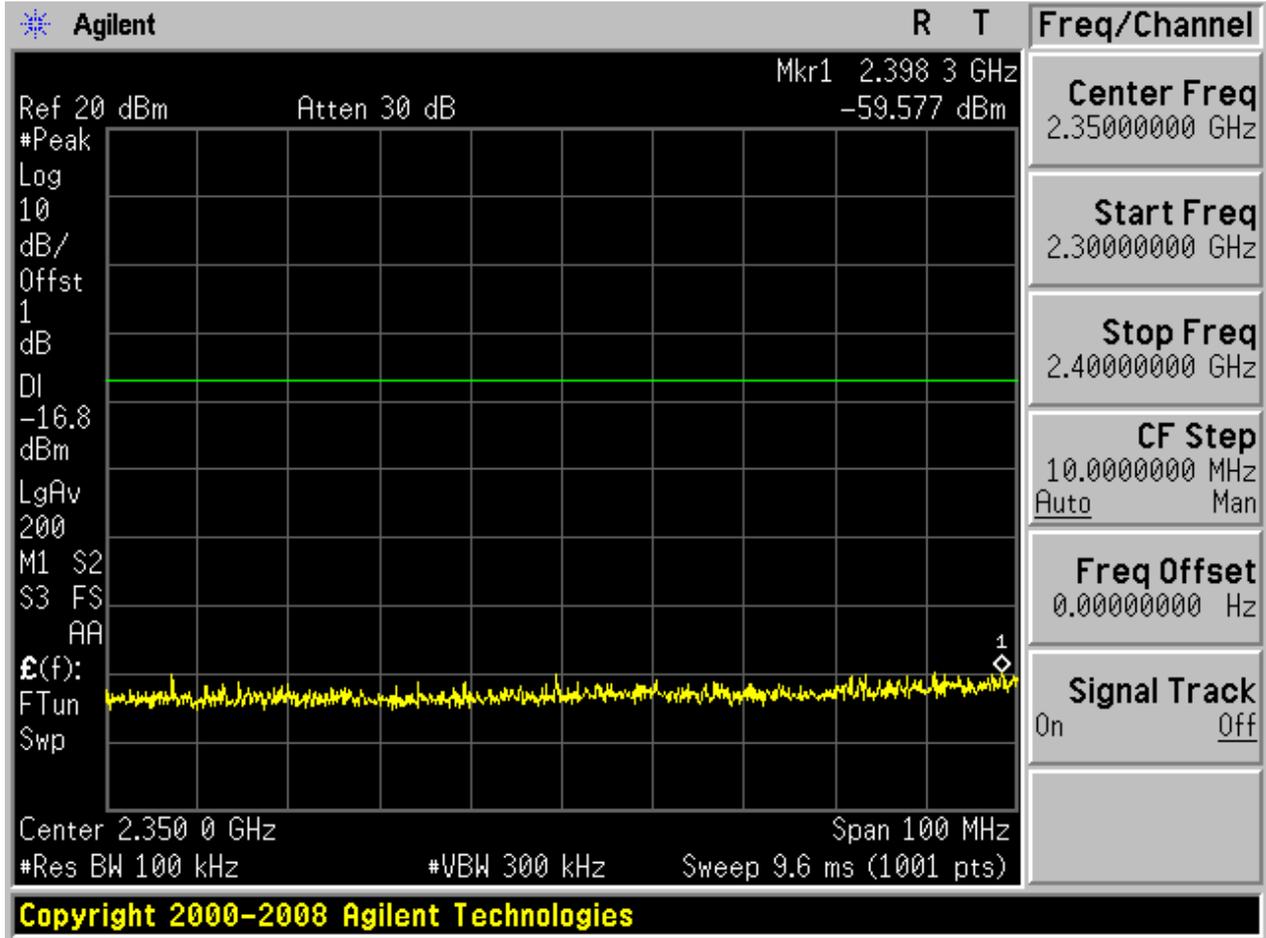


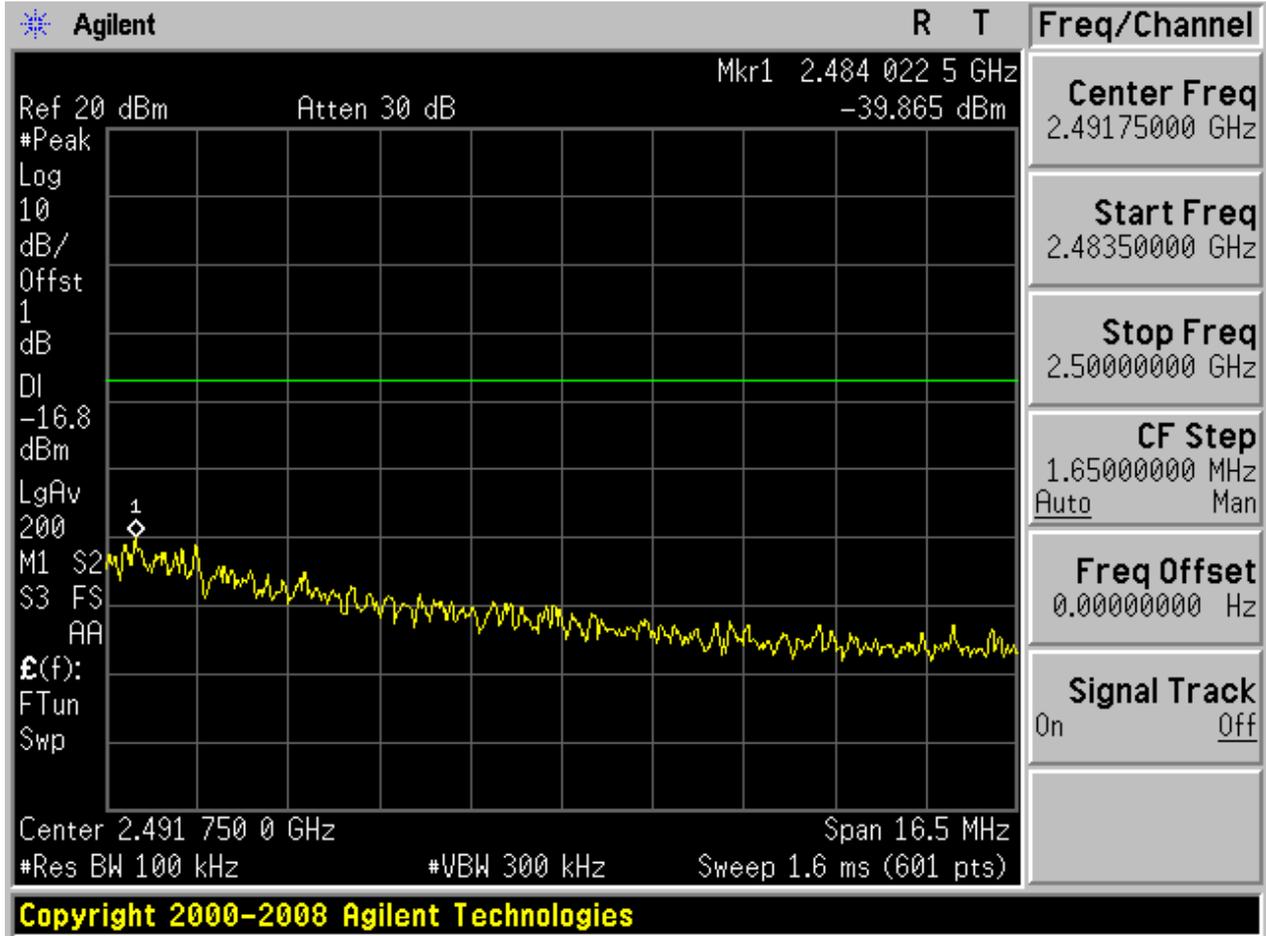
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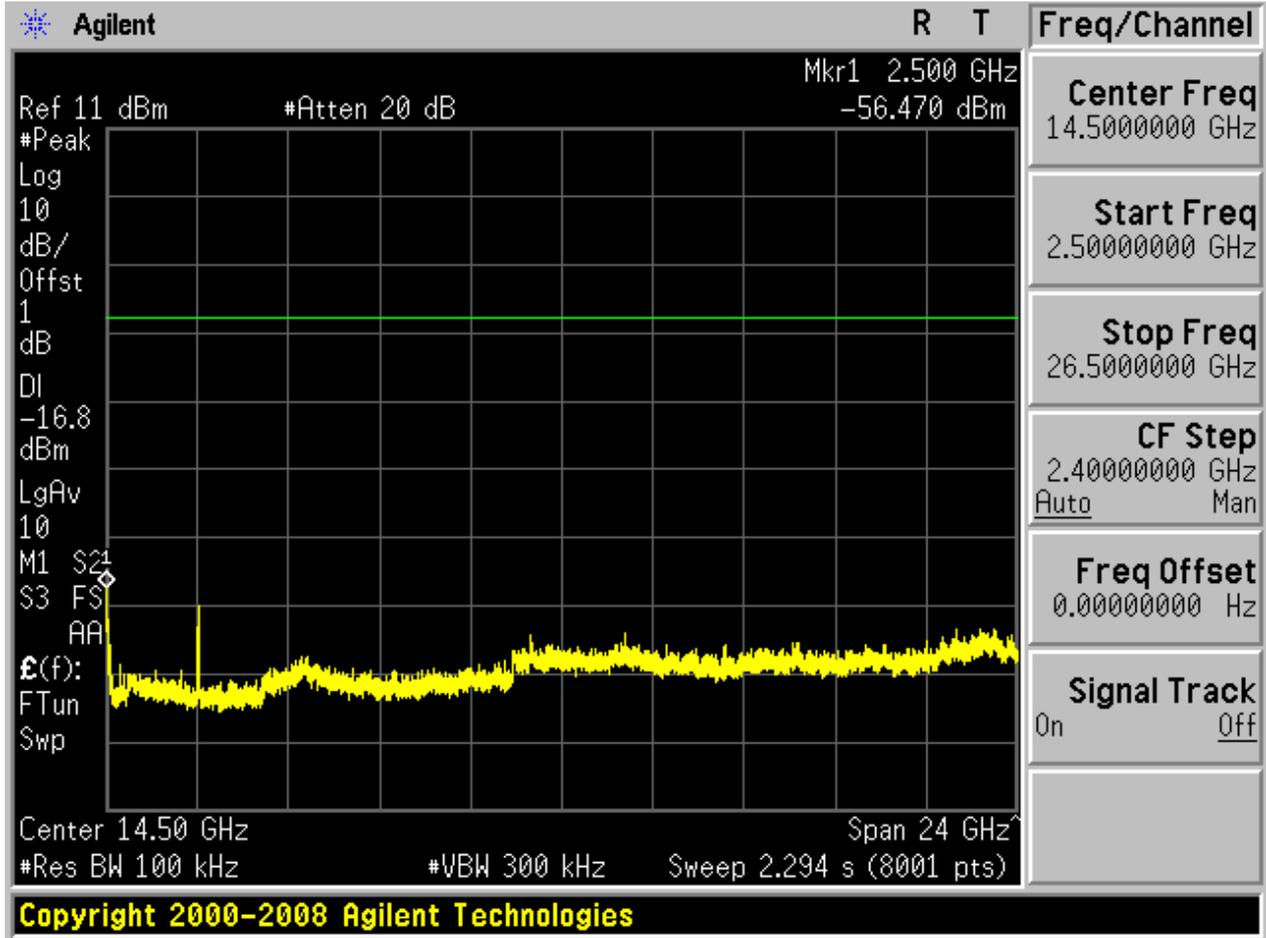








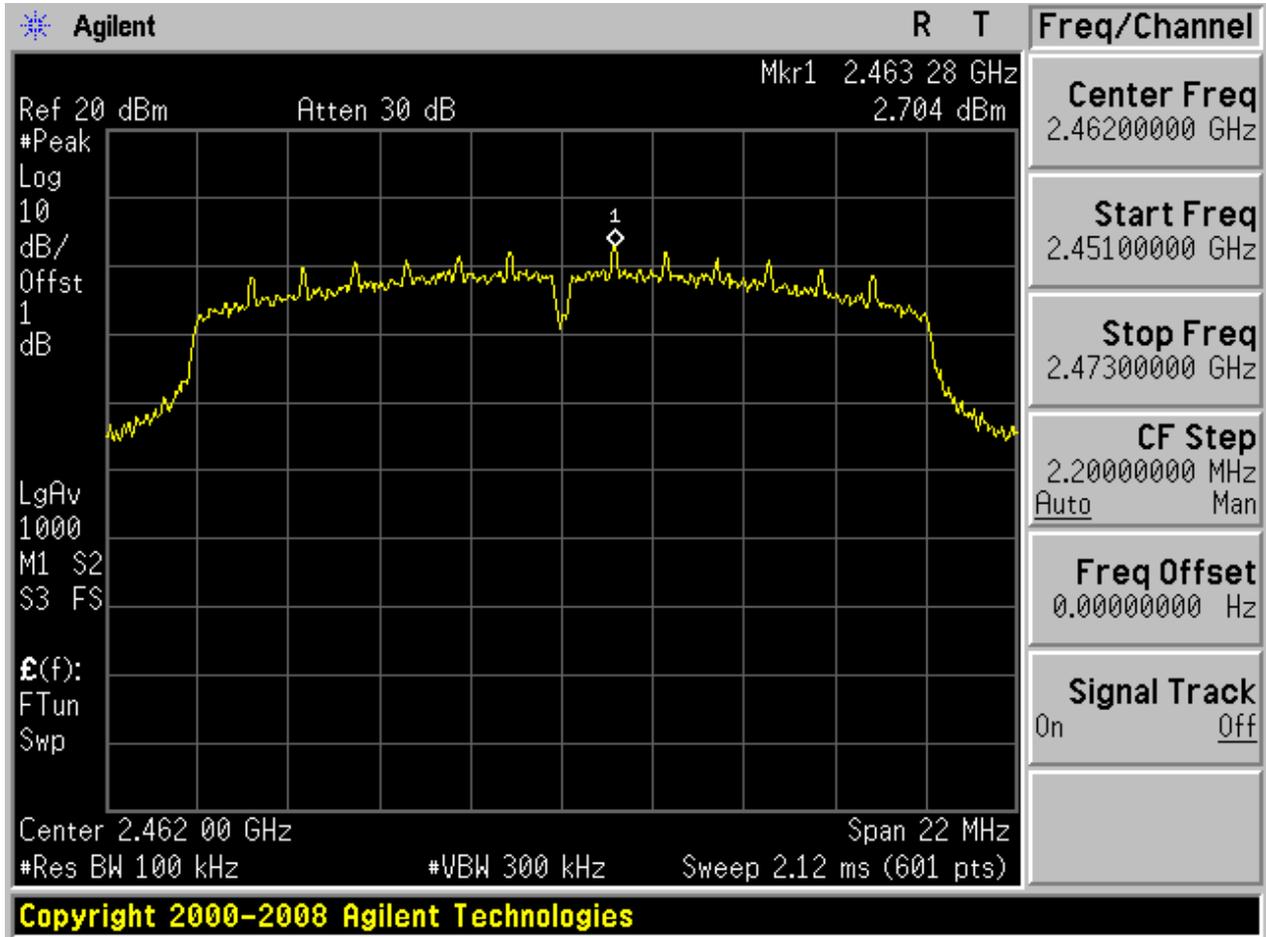






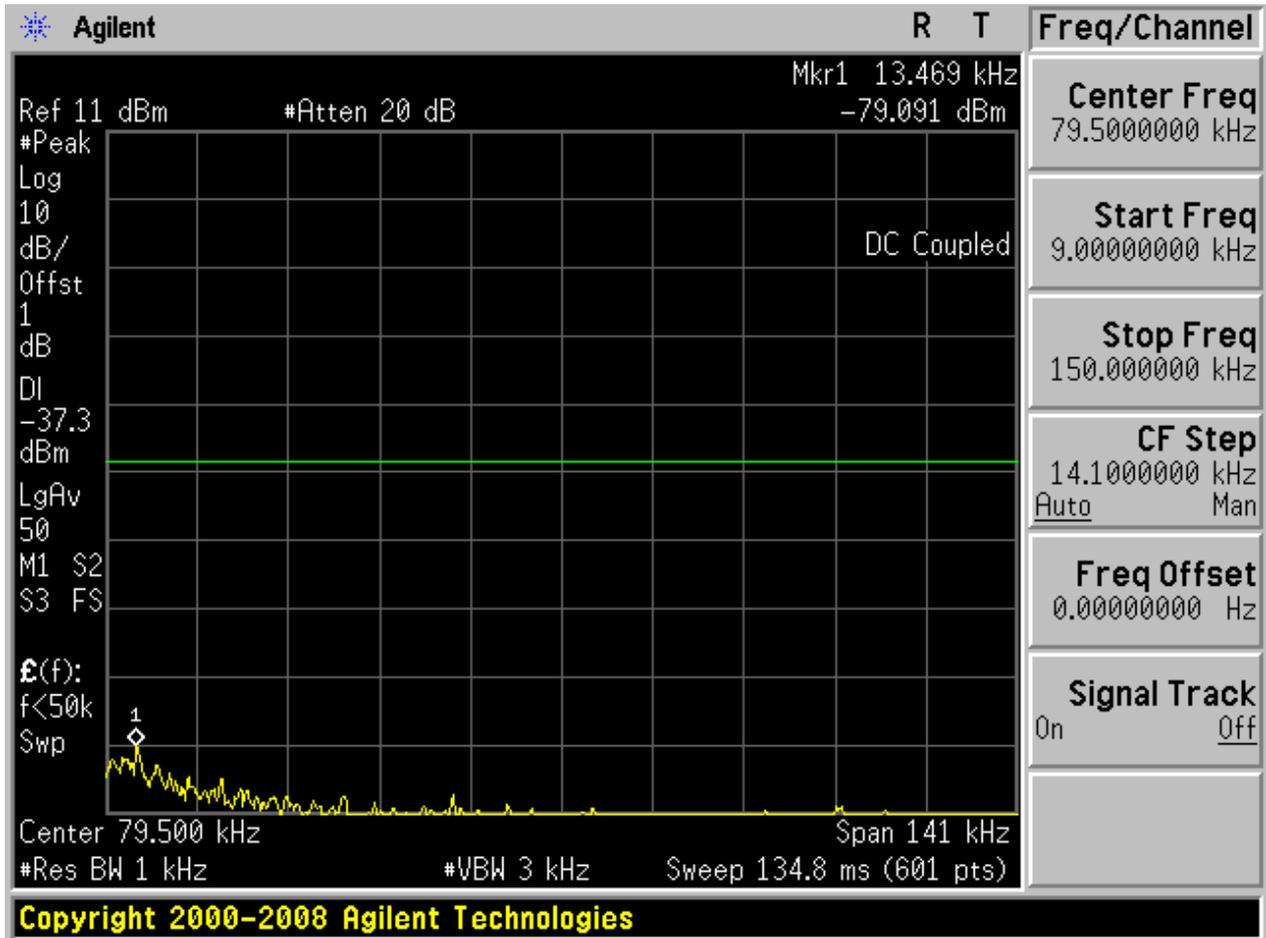
2.18 11N20_H@Ant 2

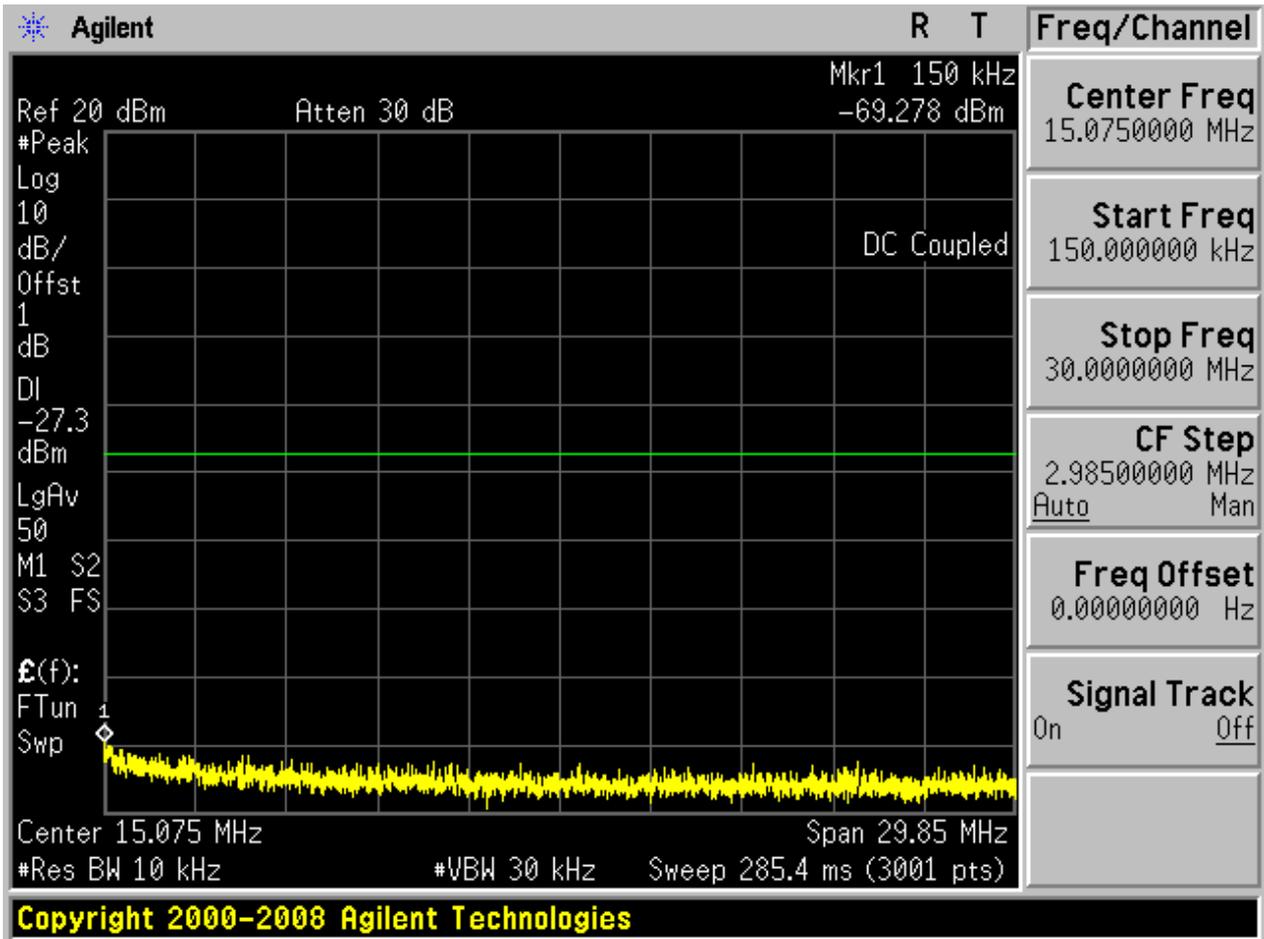
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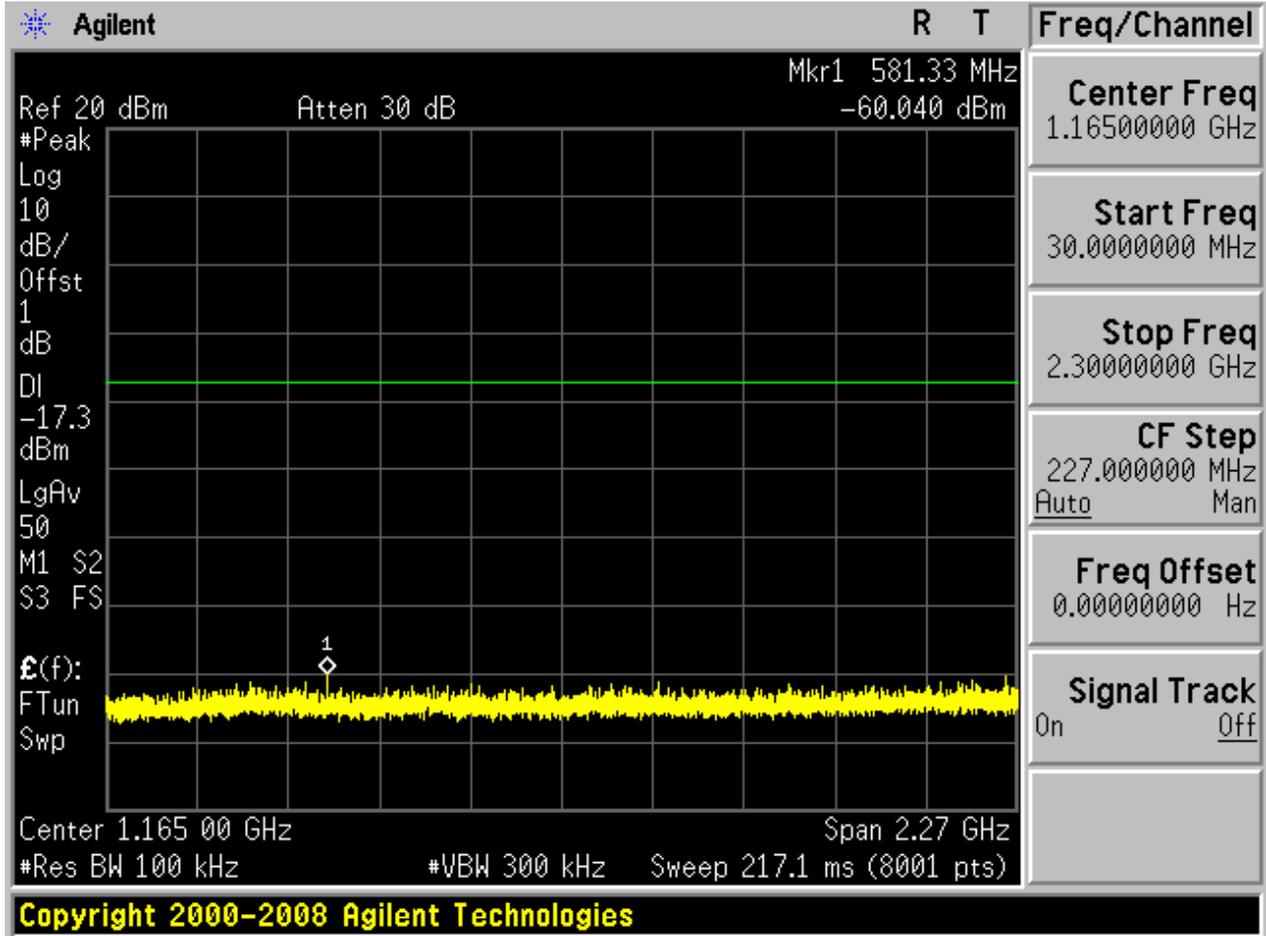


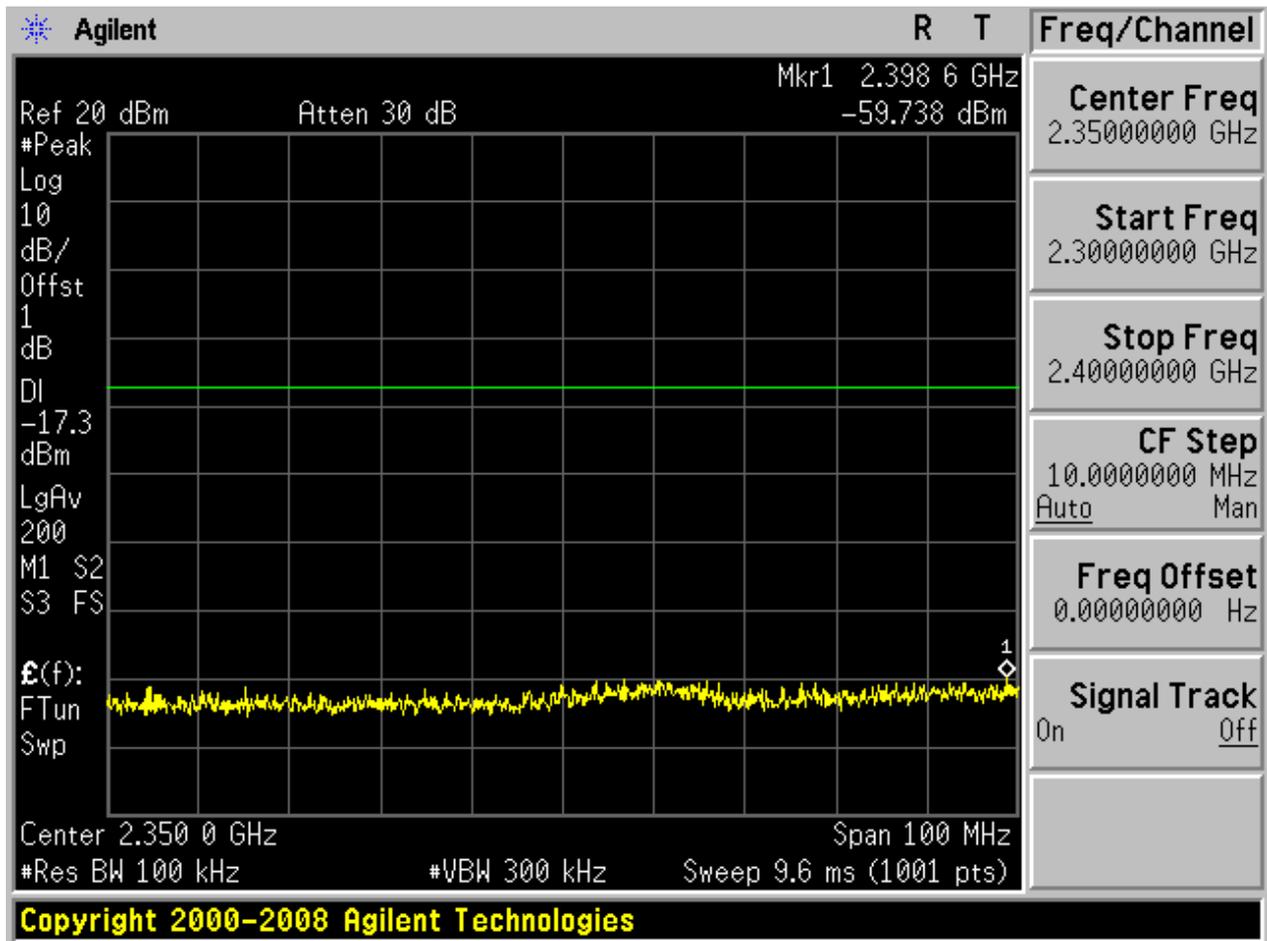


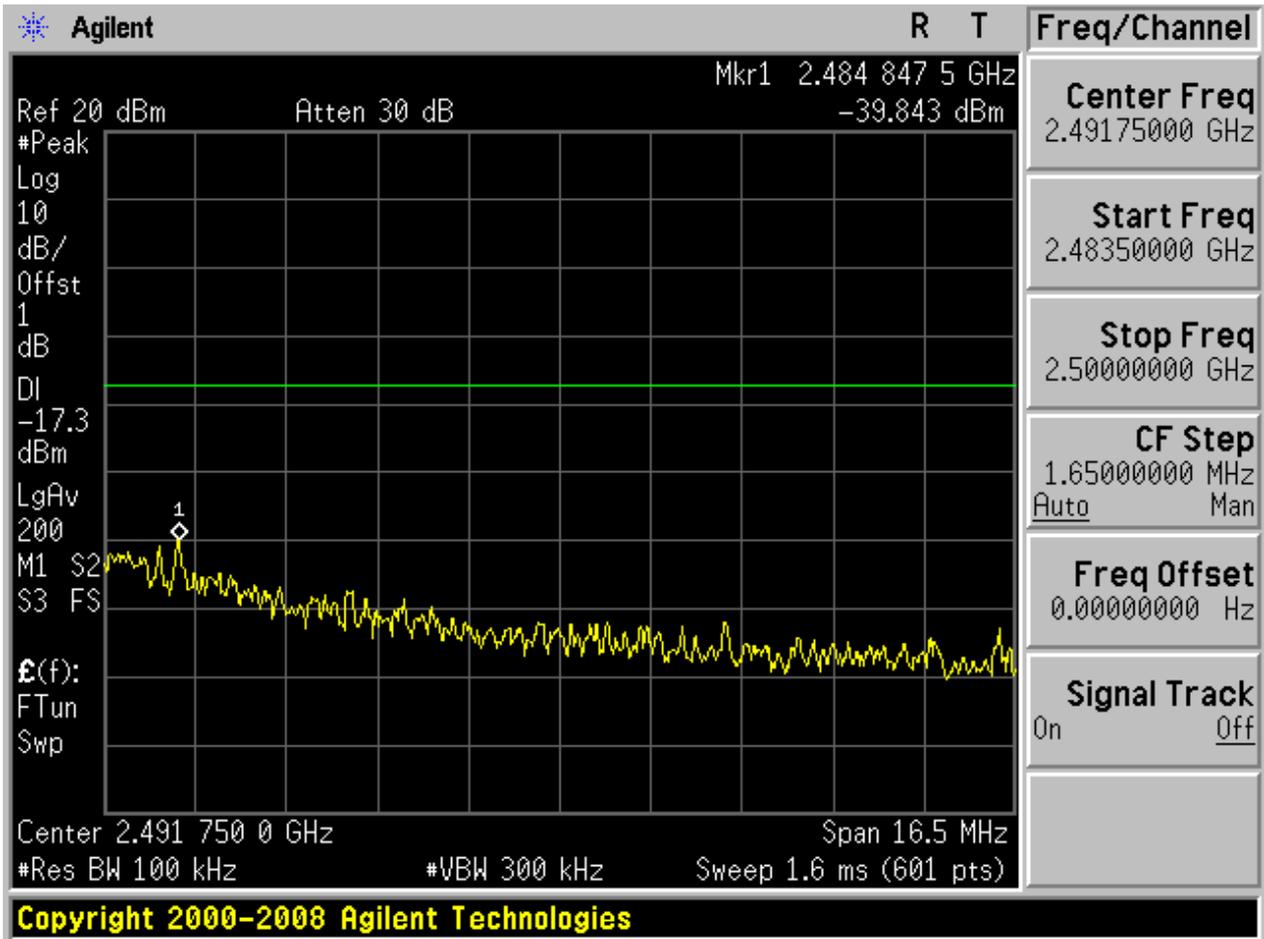
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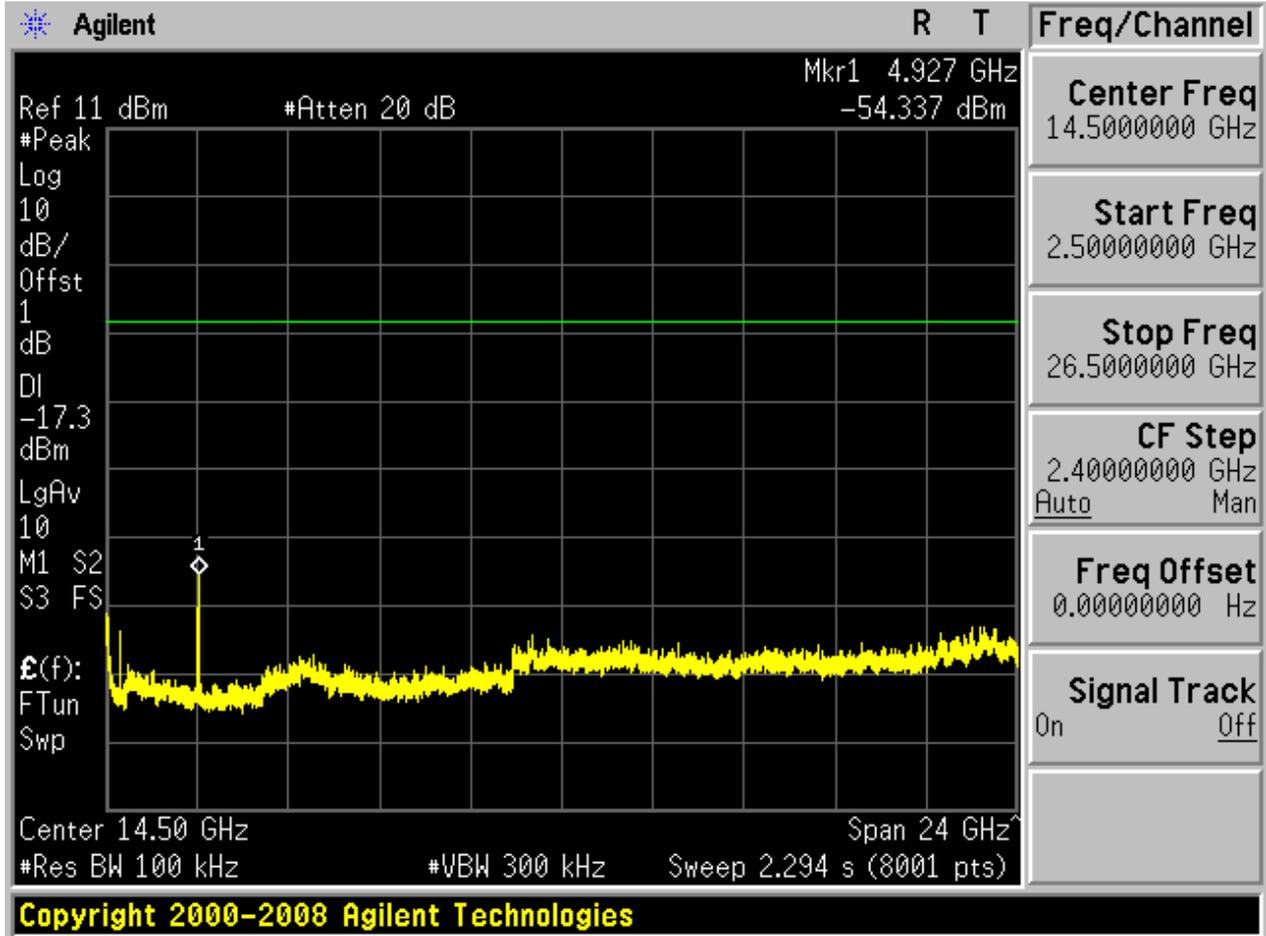








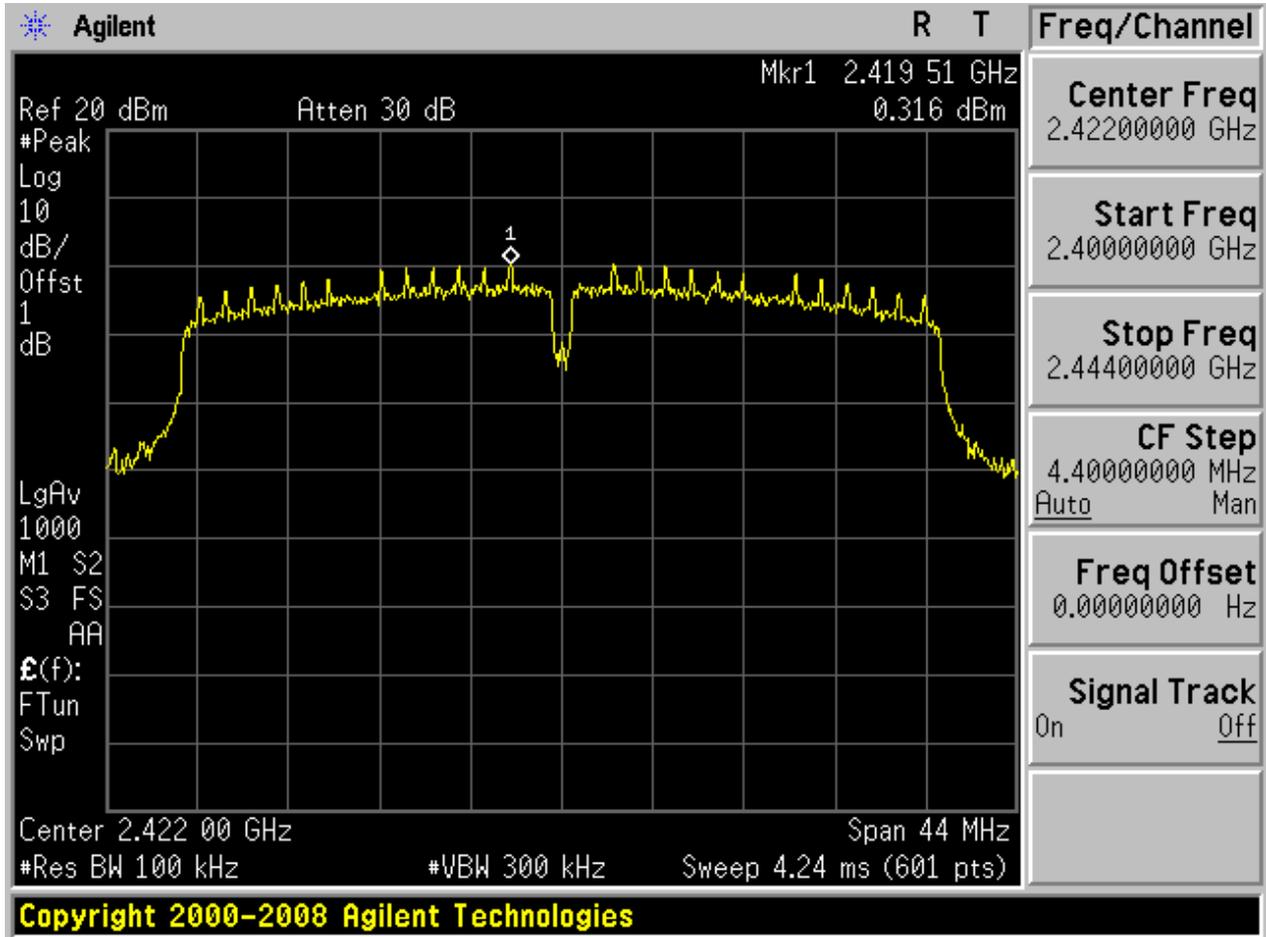






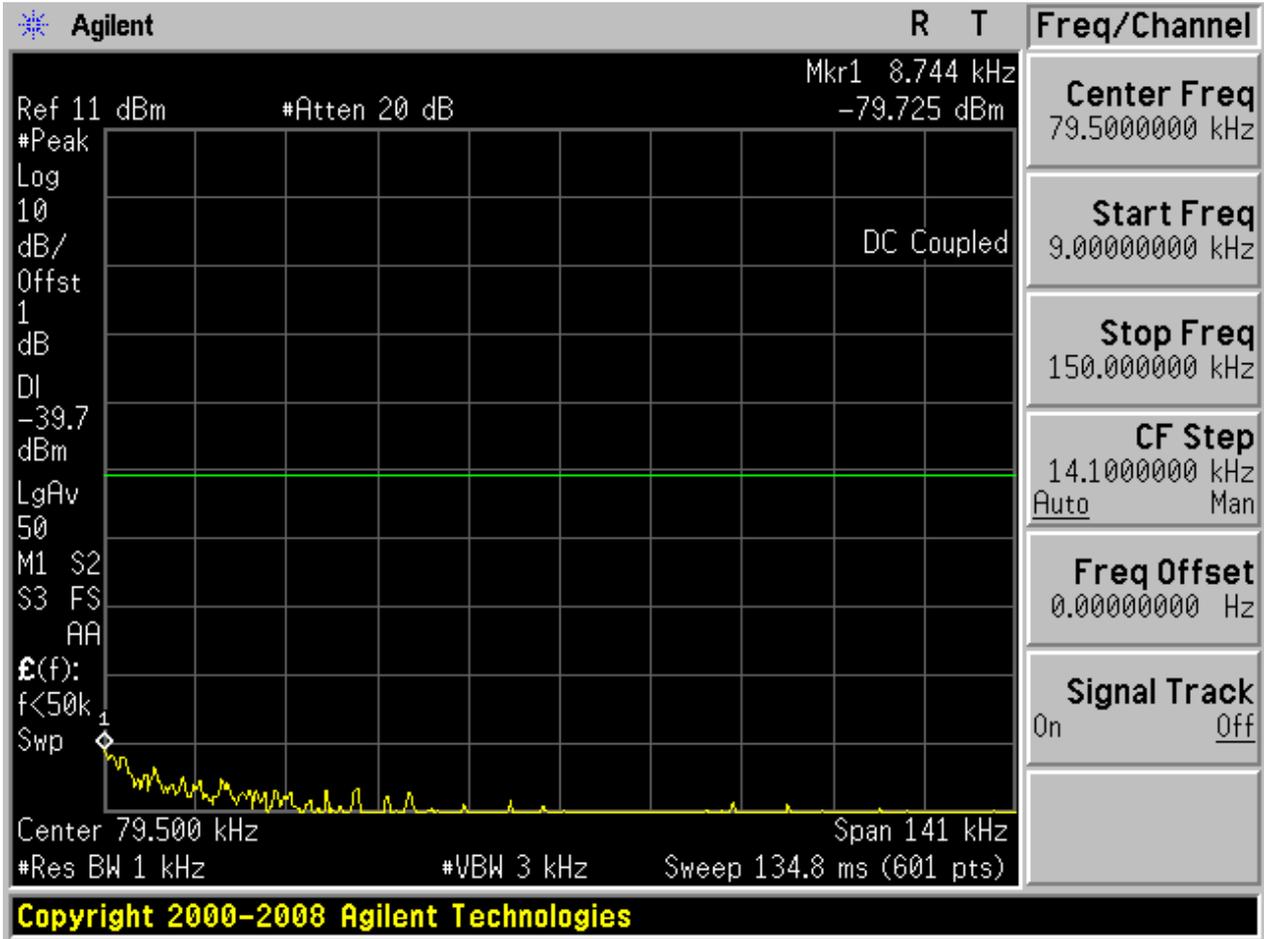
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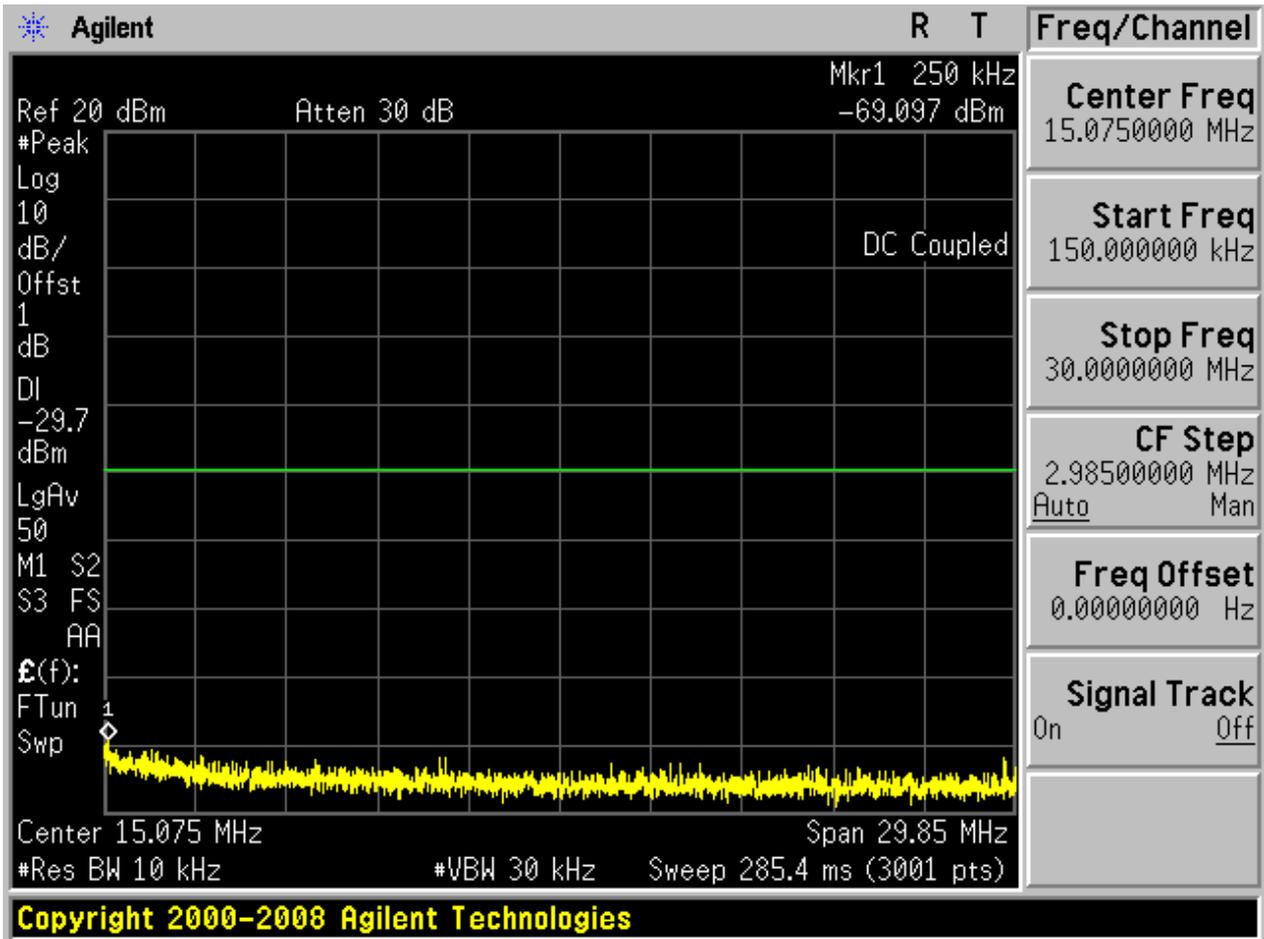
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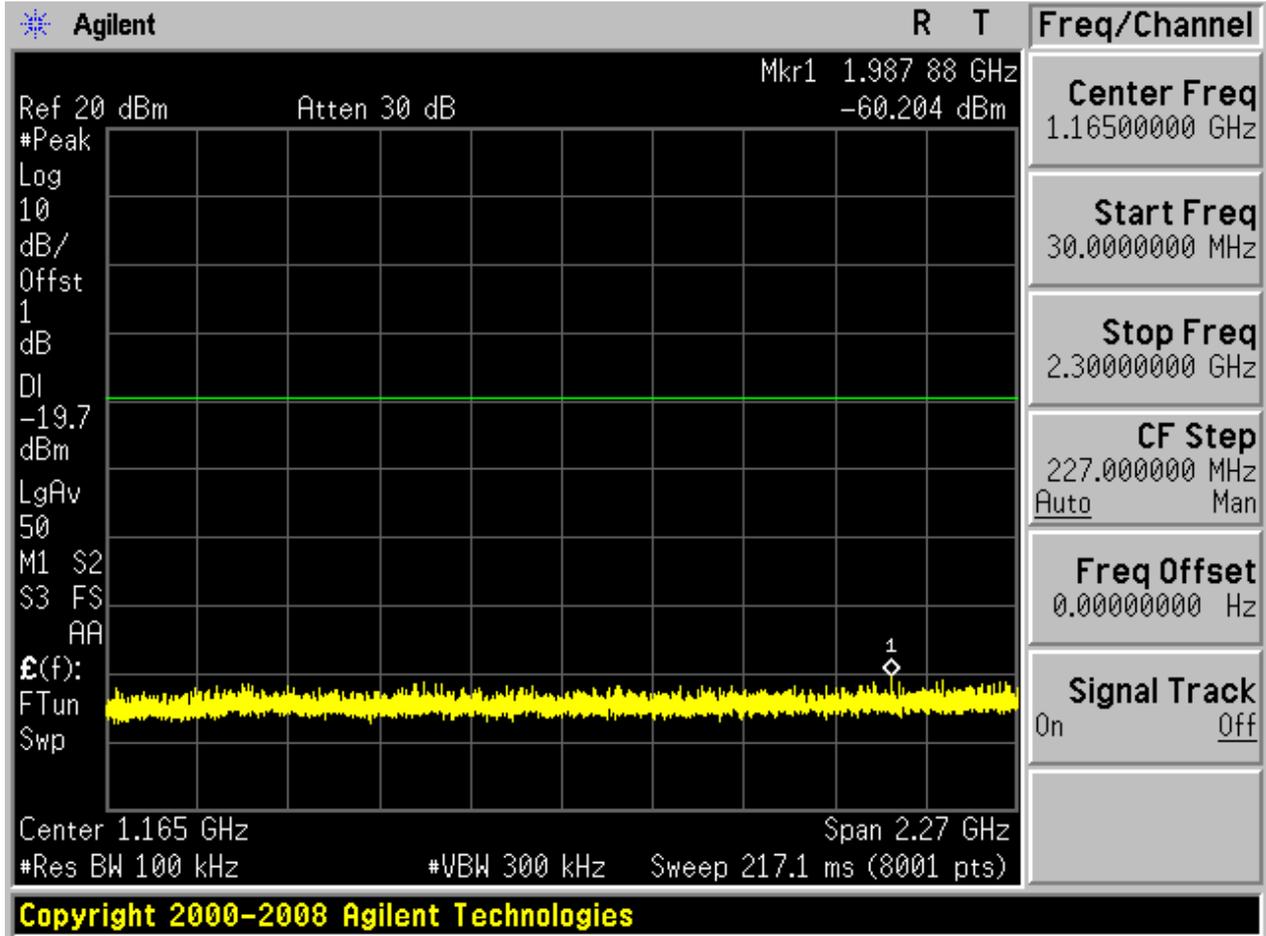


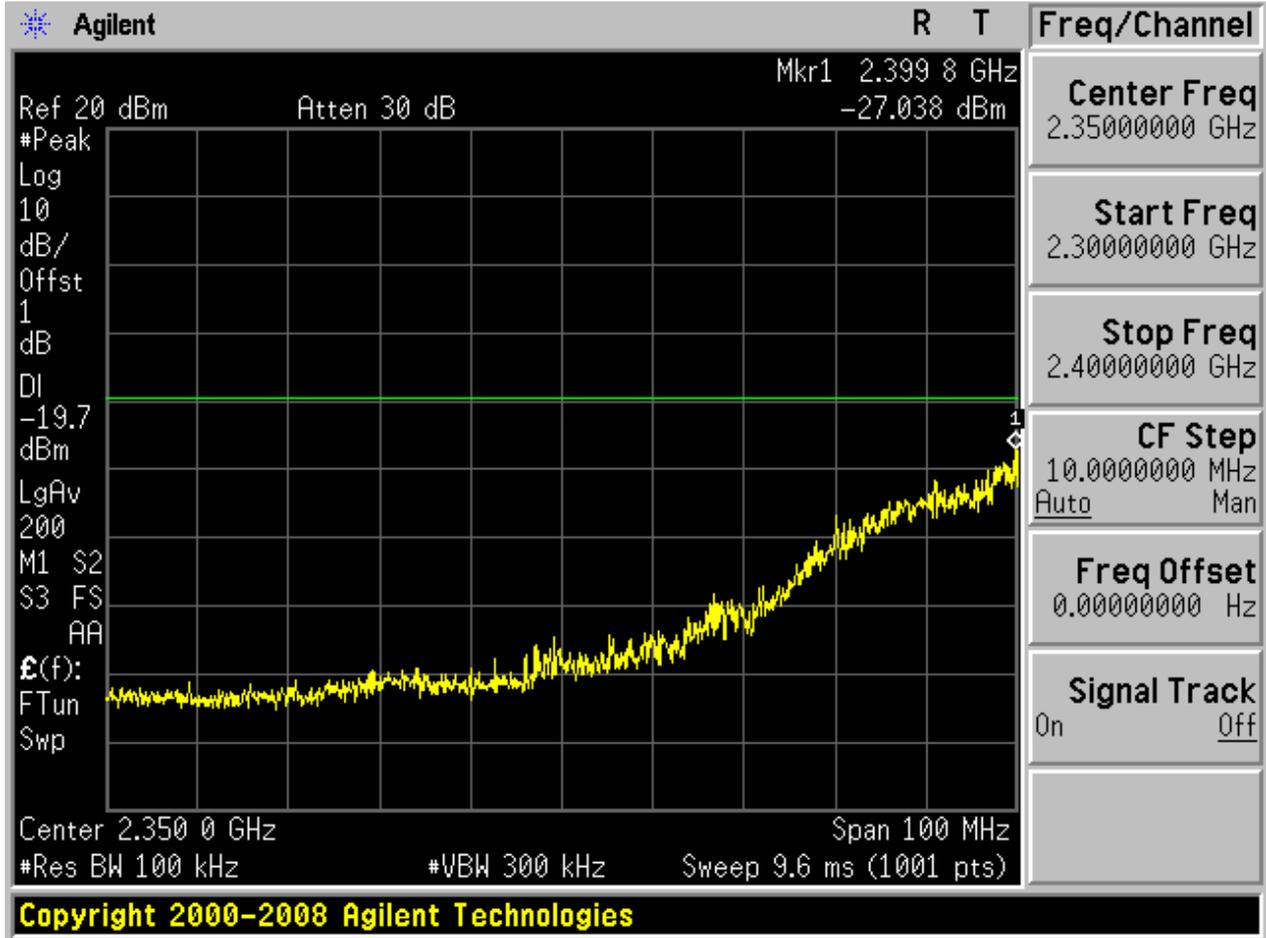


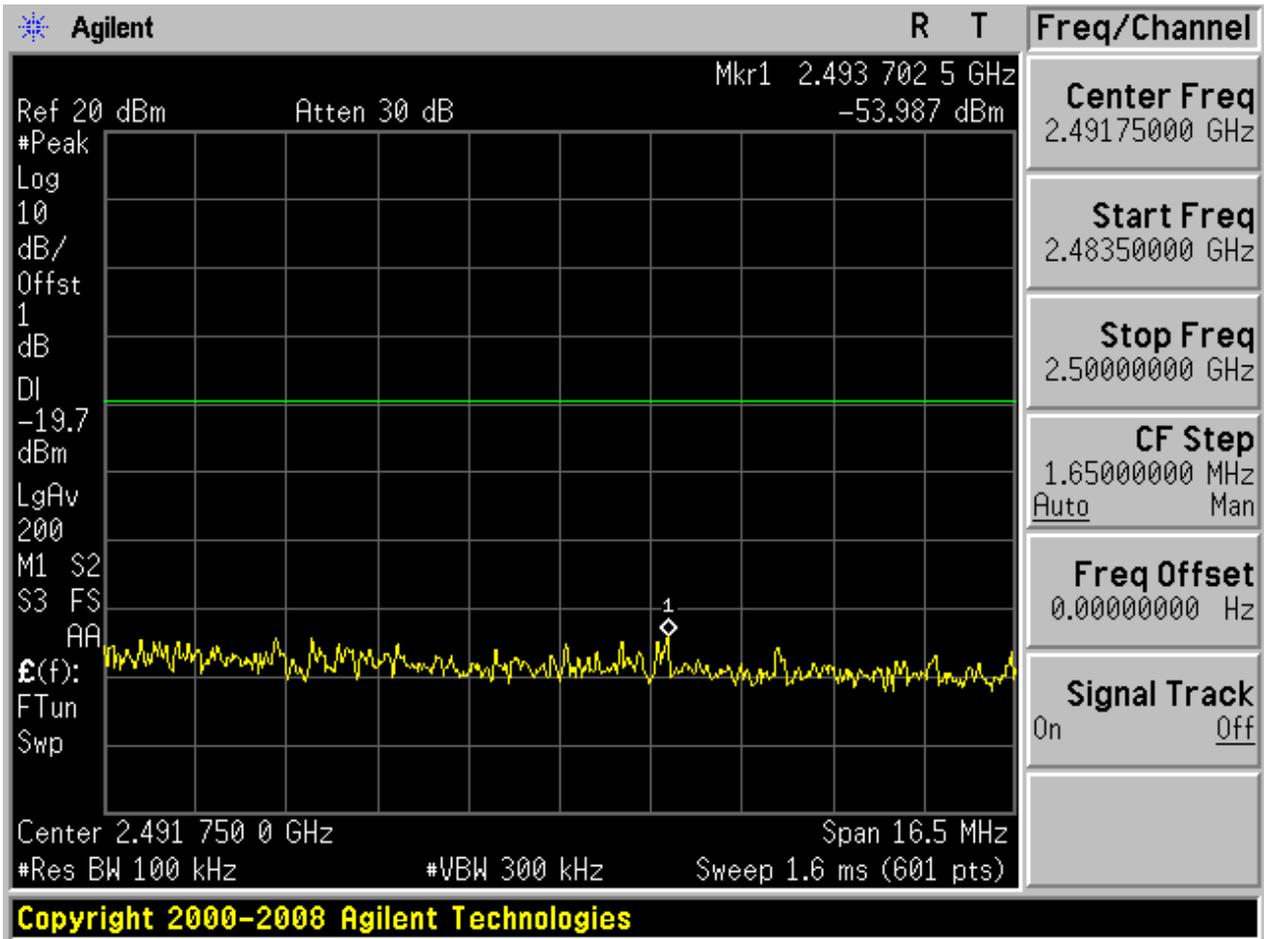
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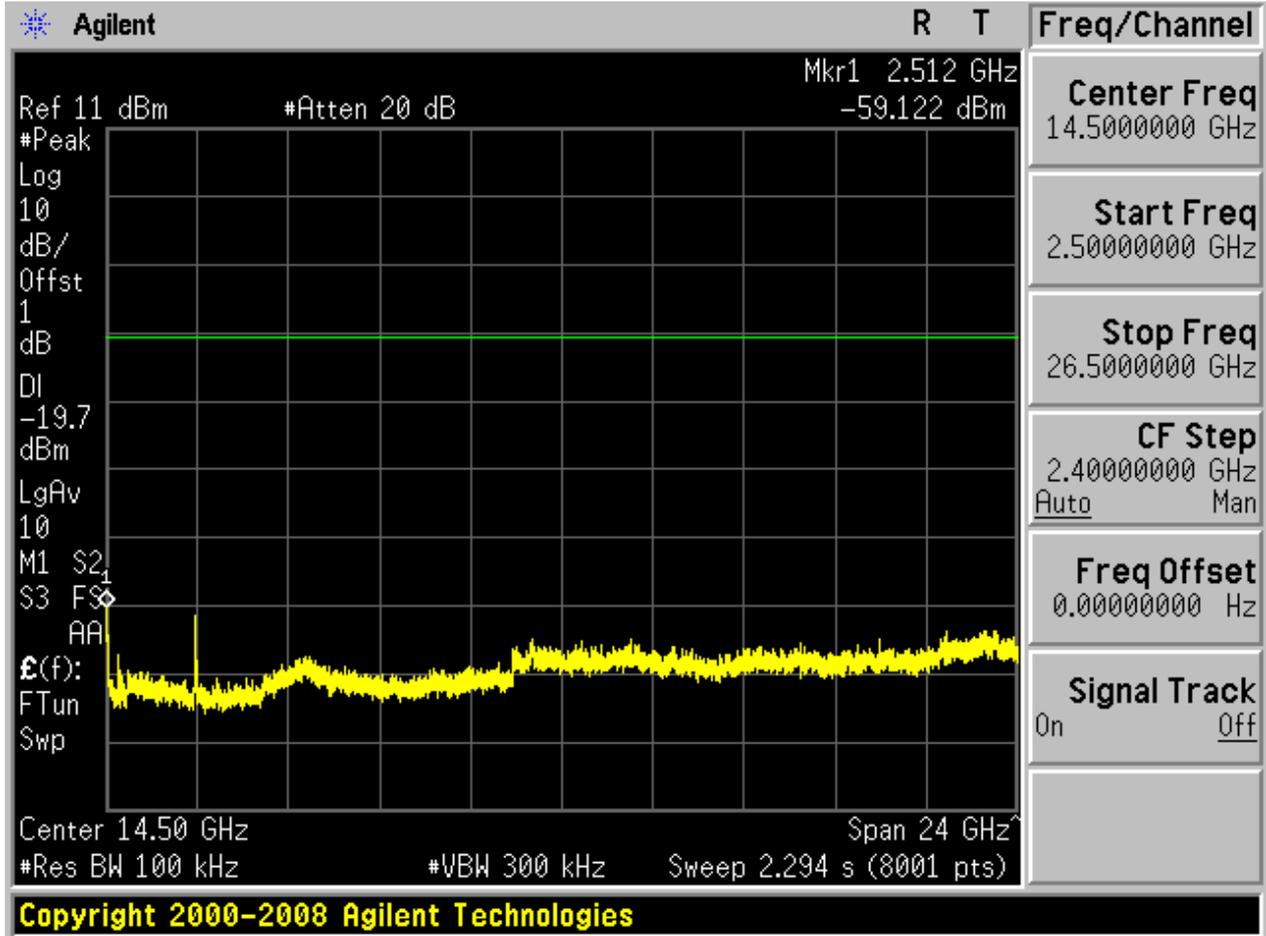








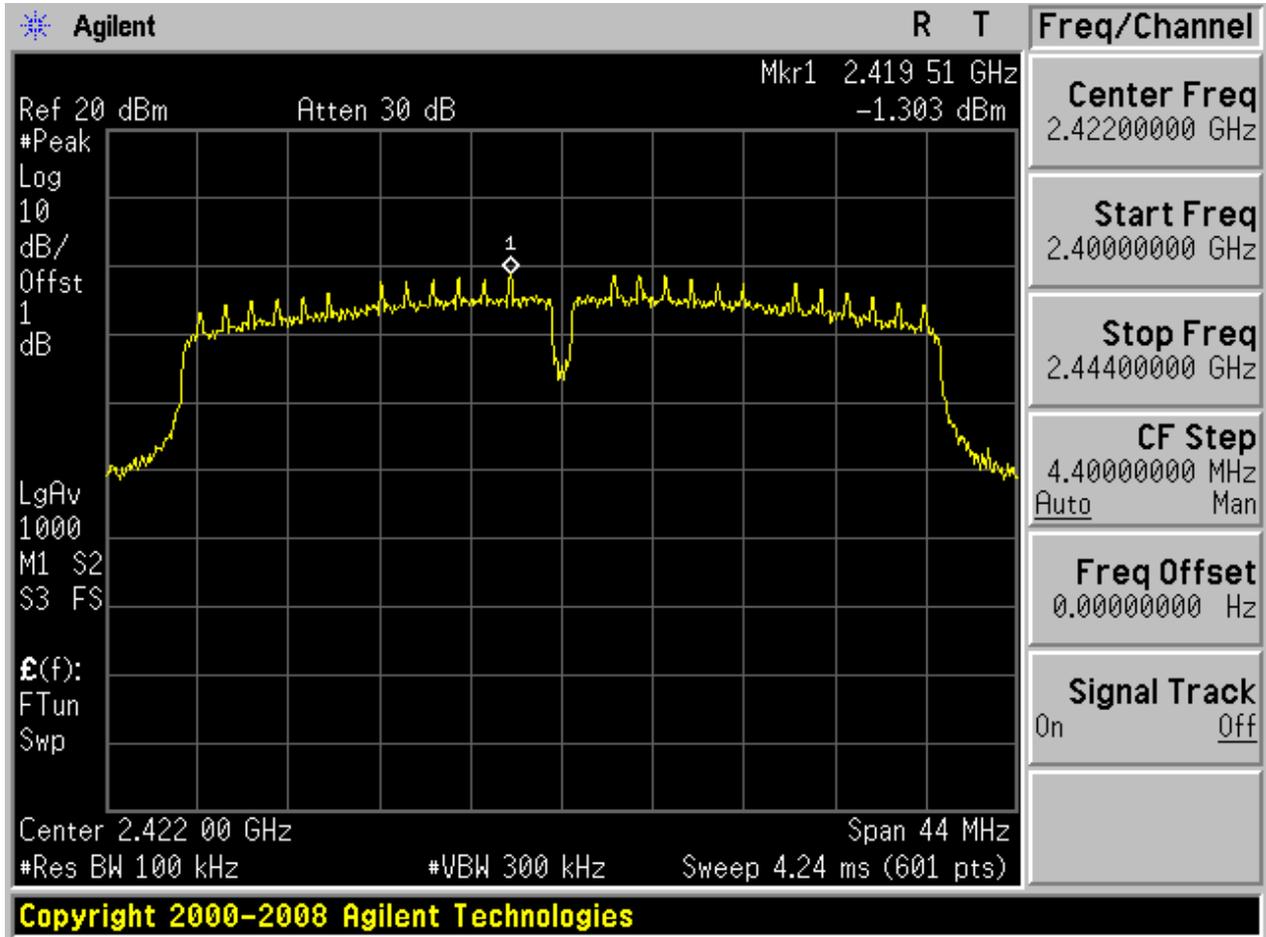






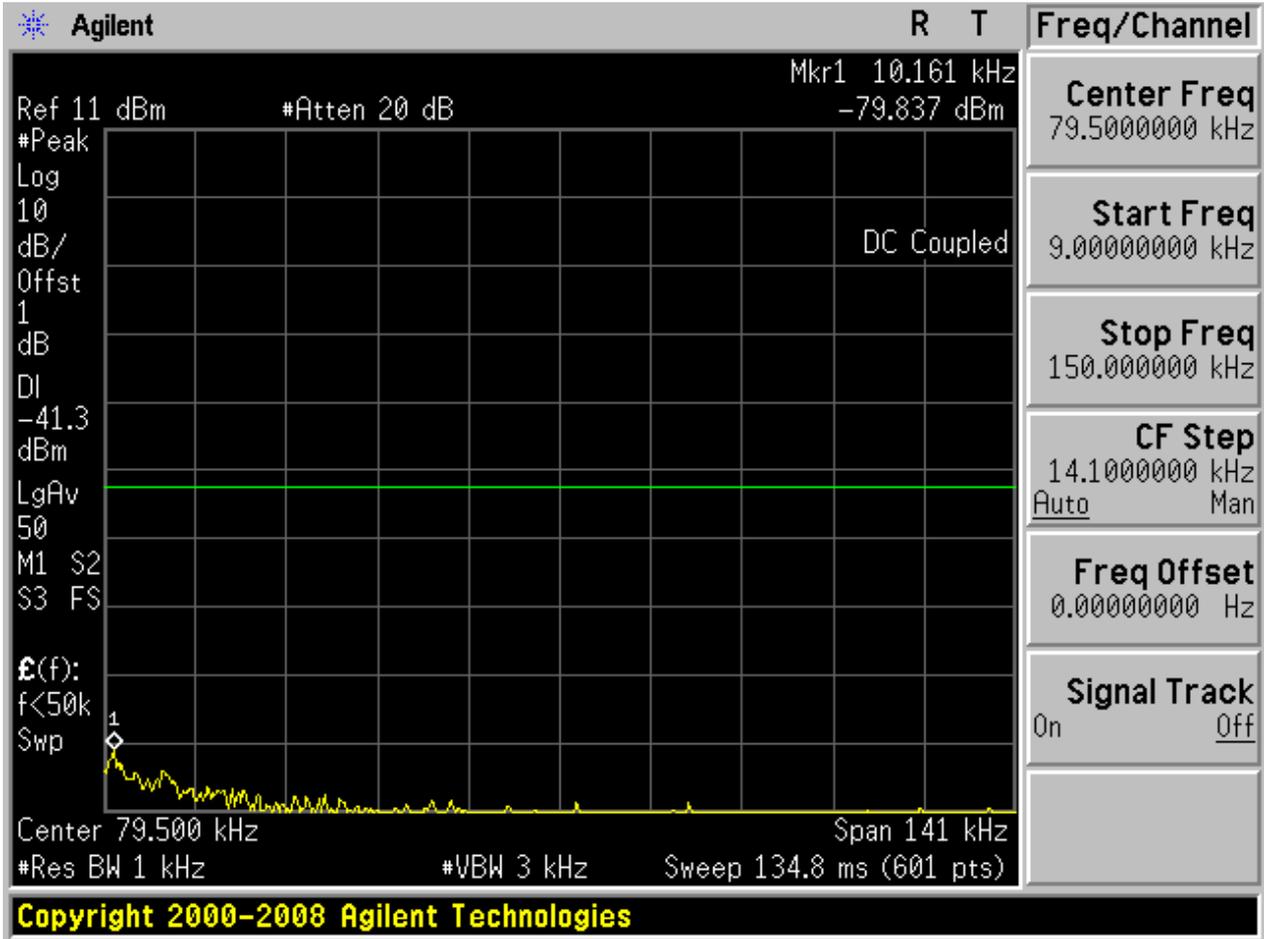
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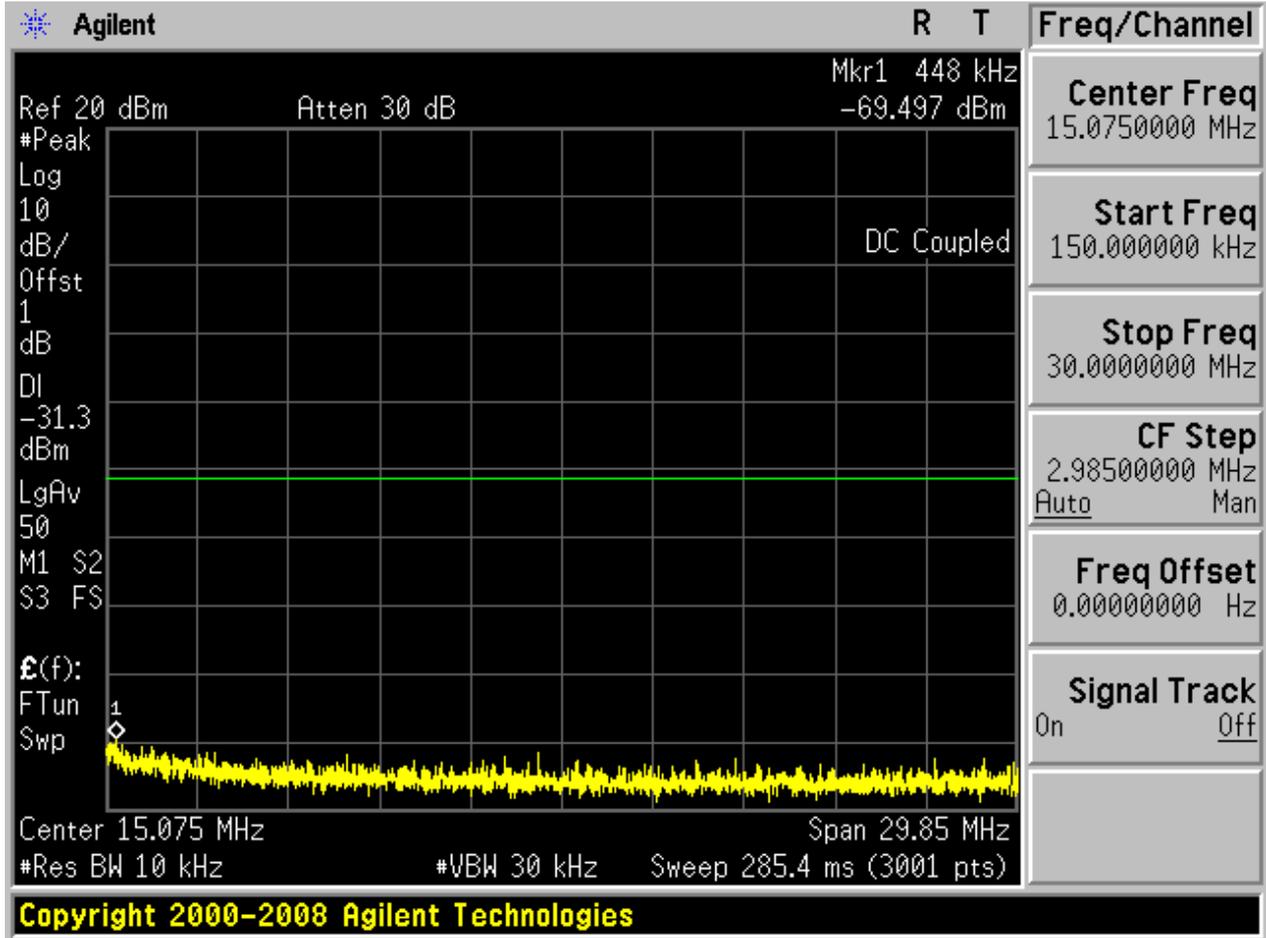
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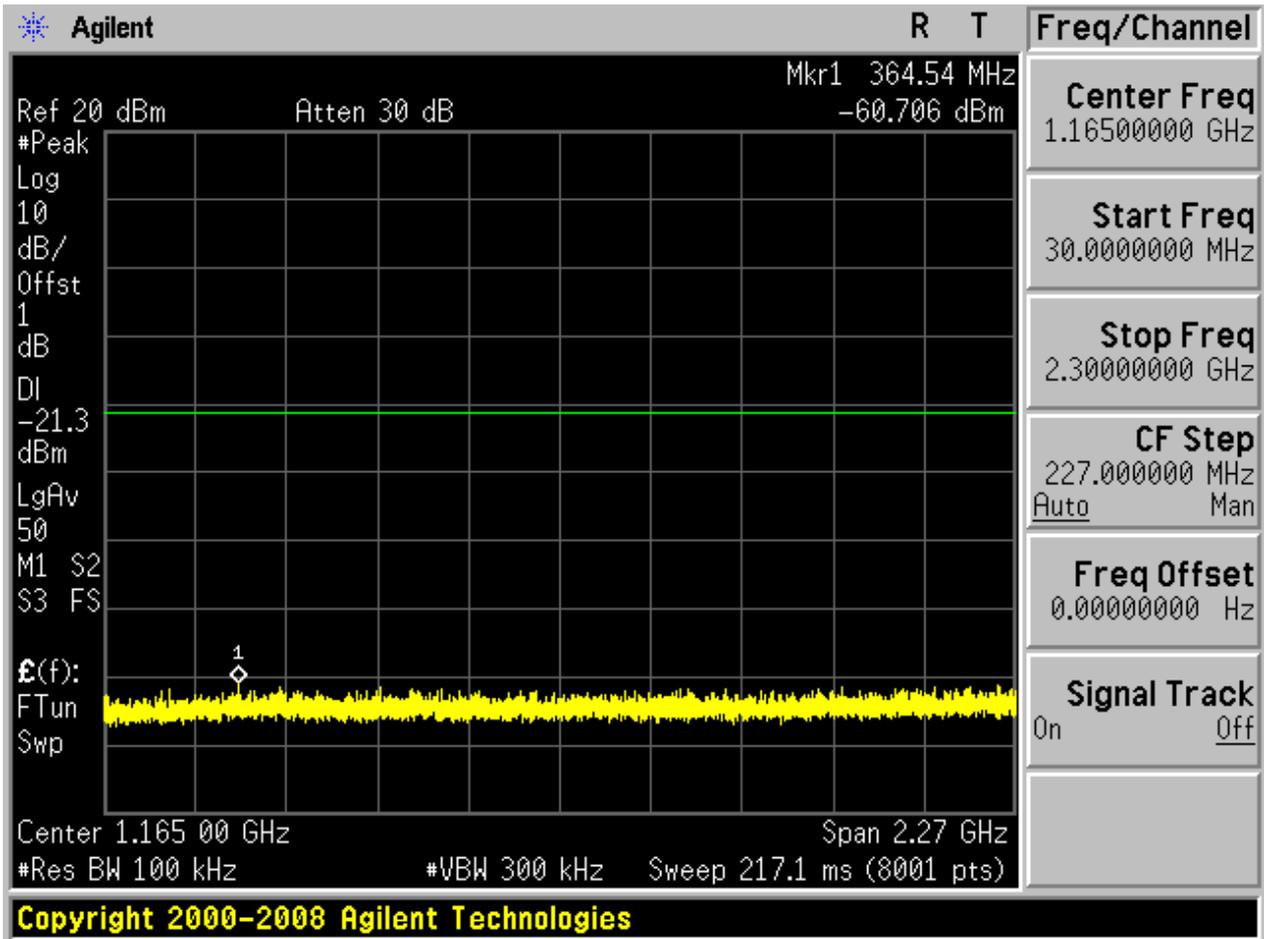


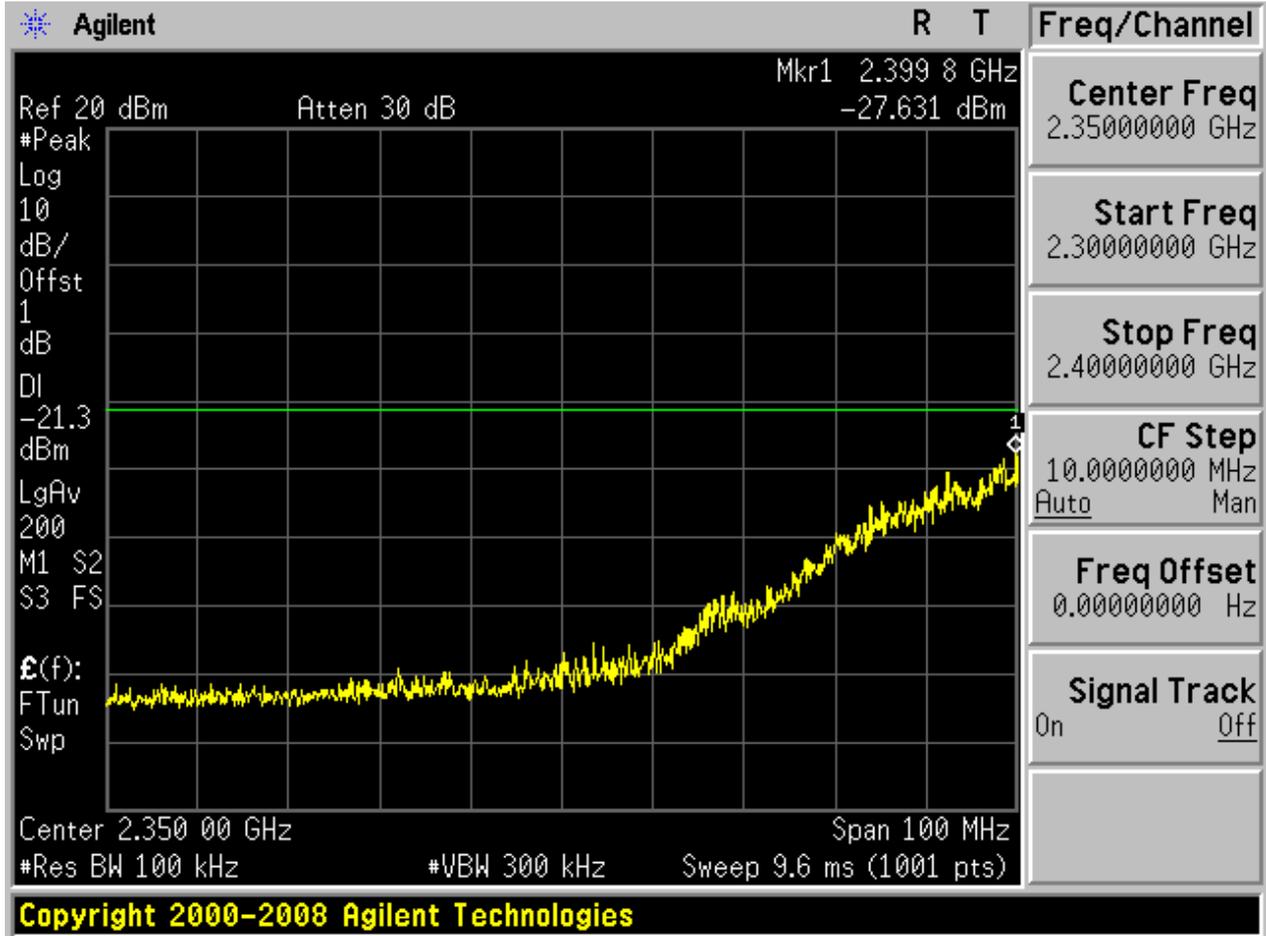


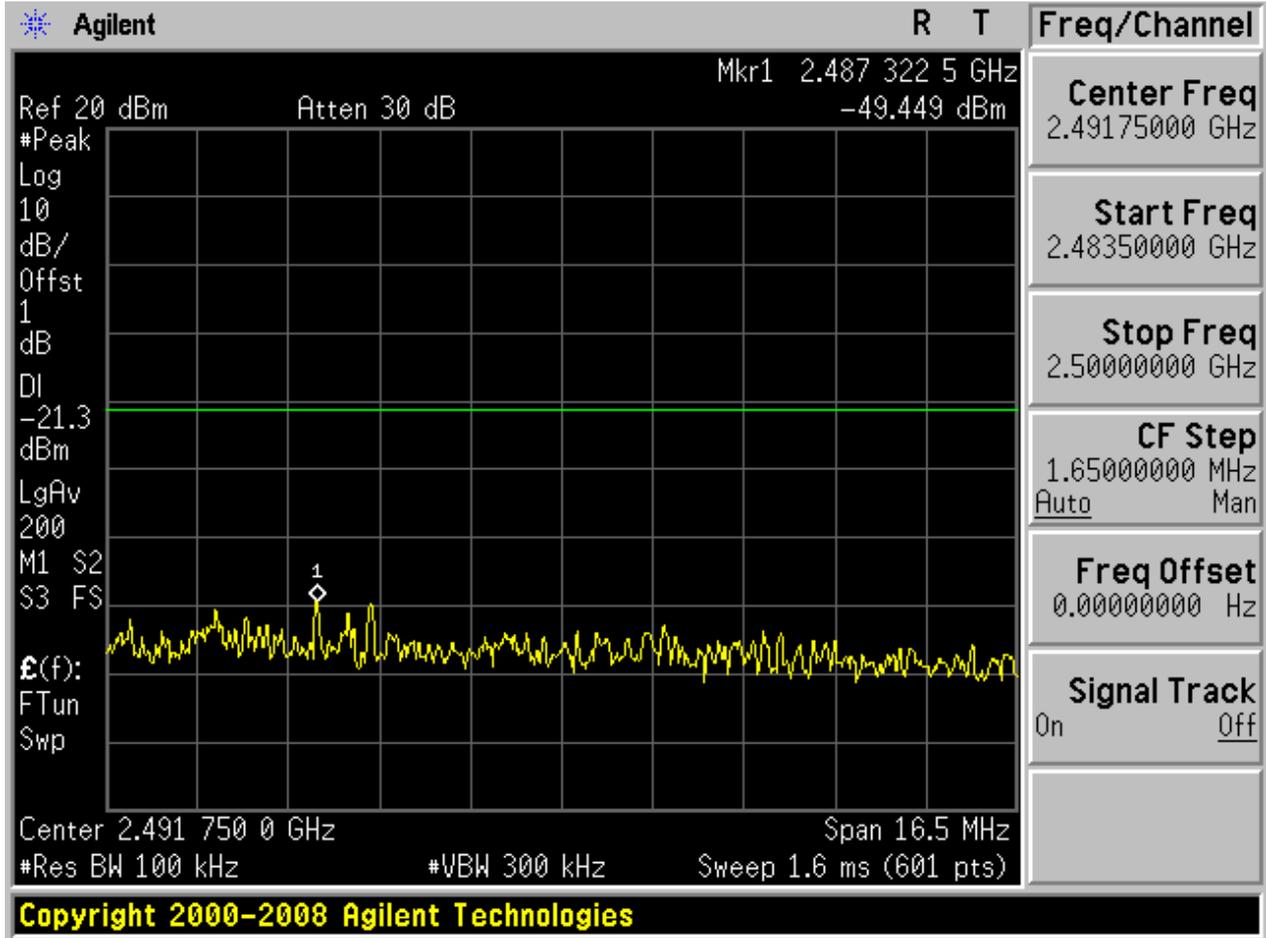
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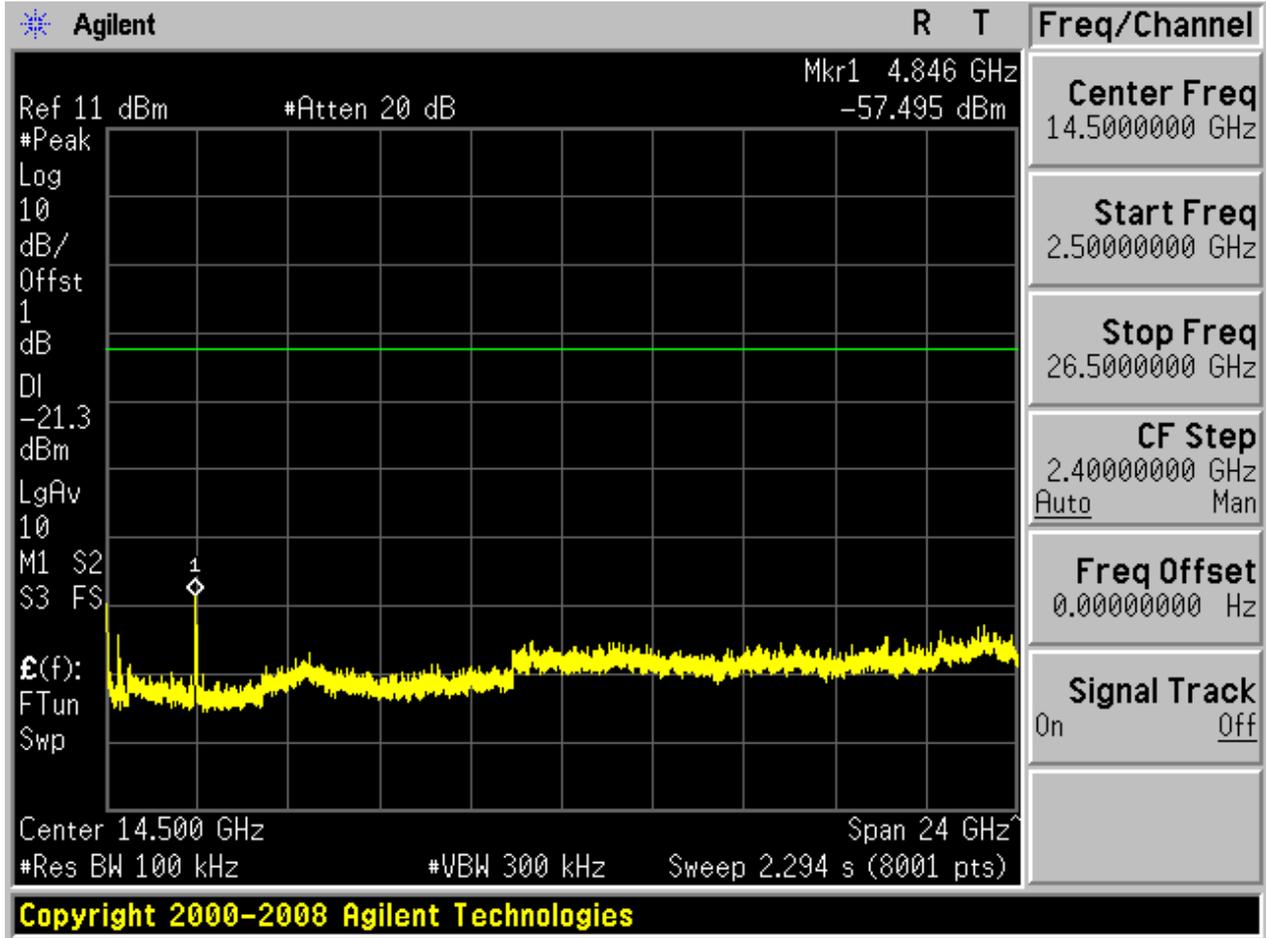








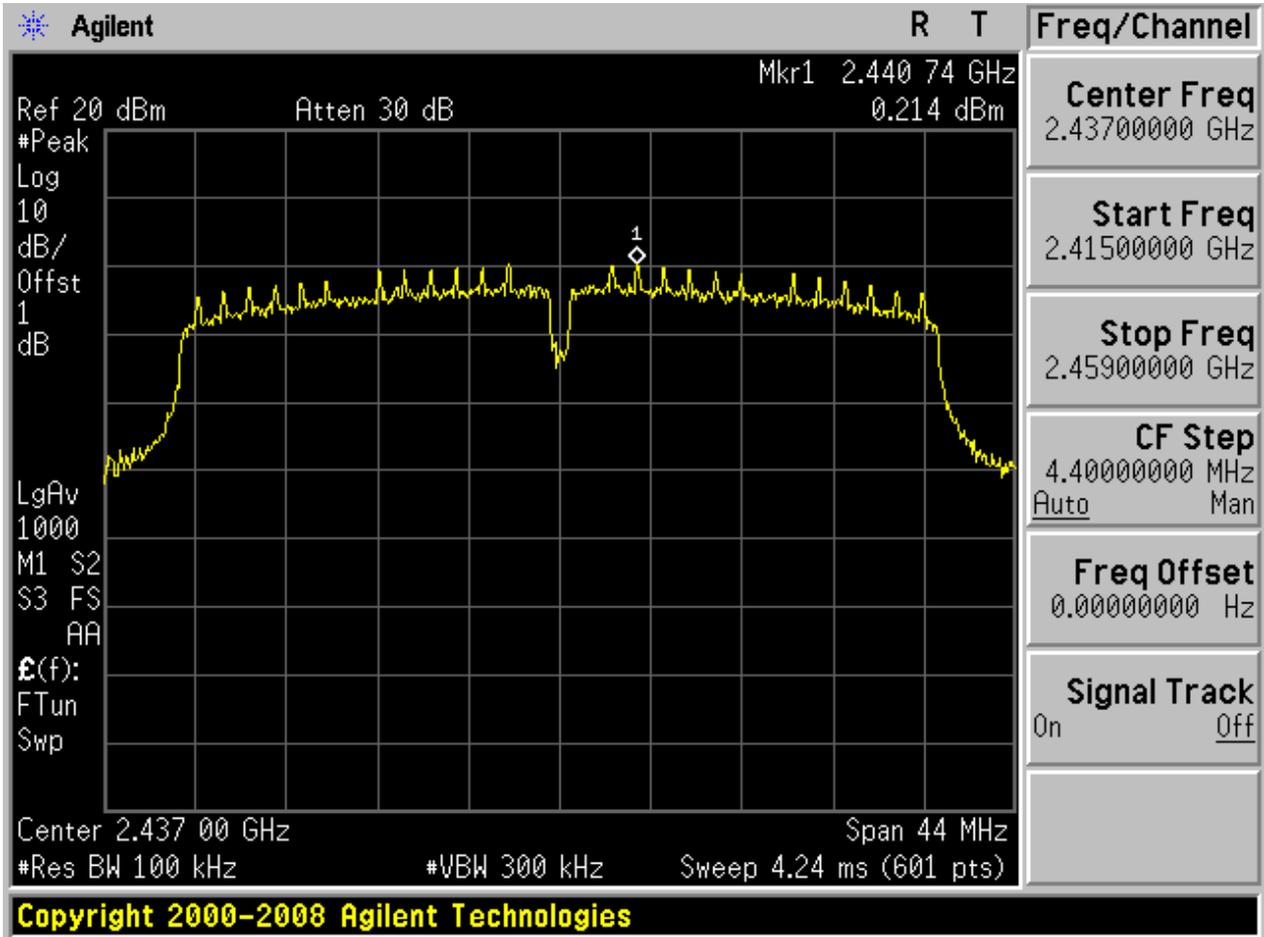






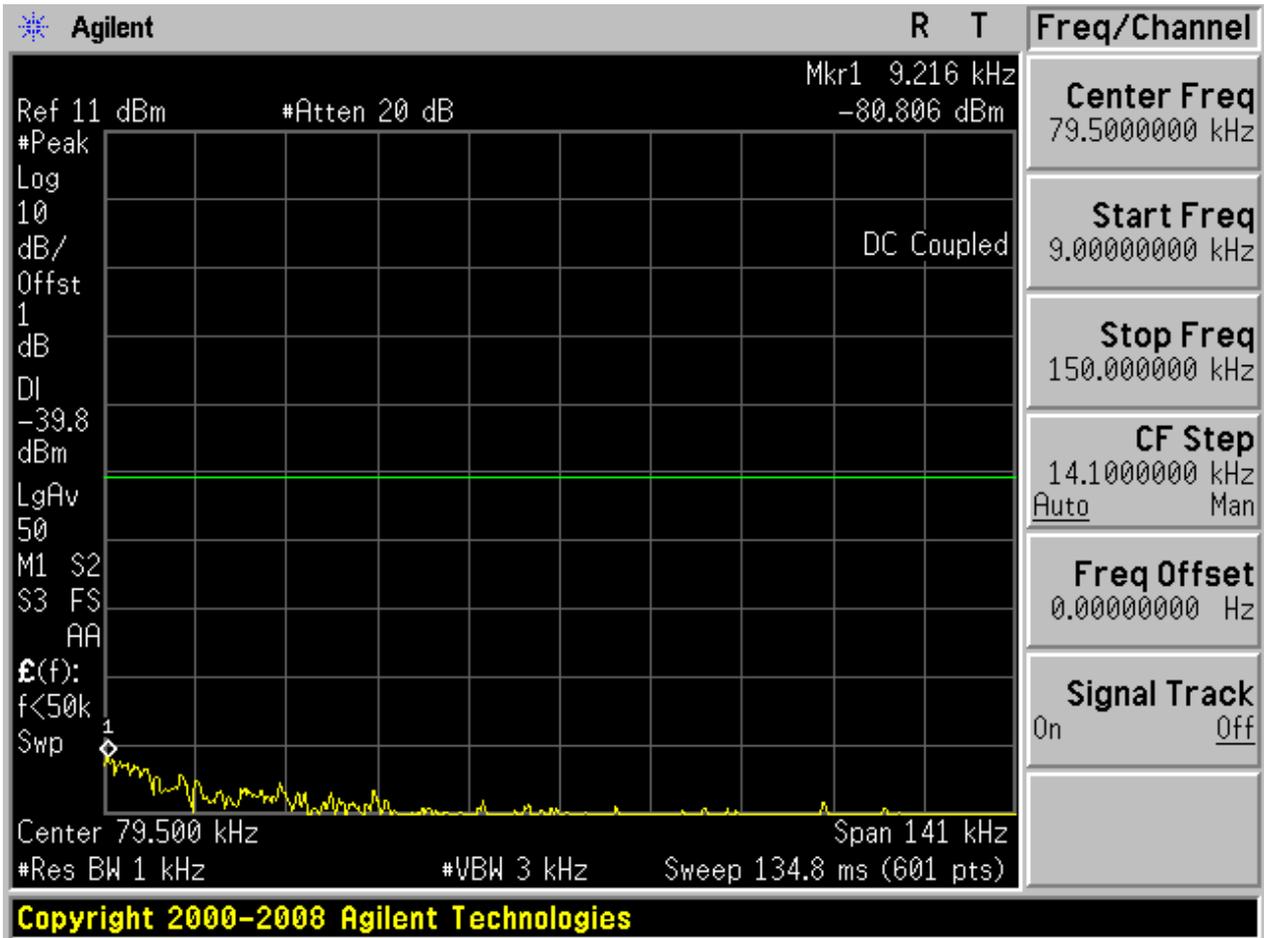
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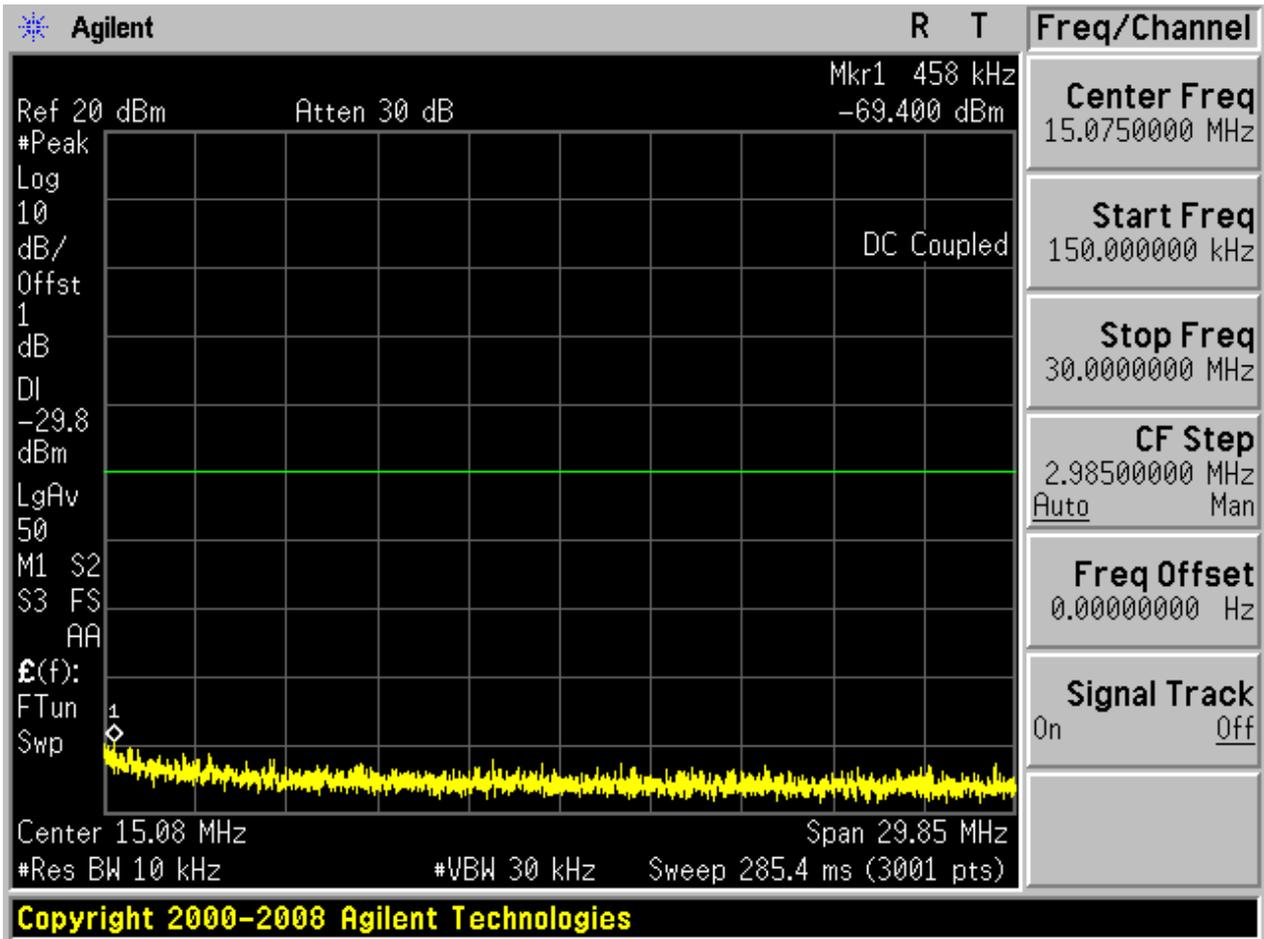
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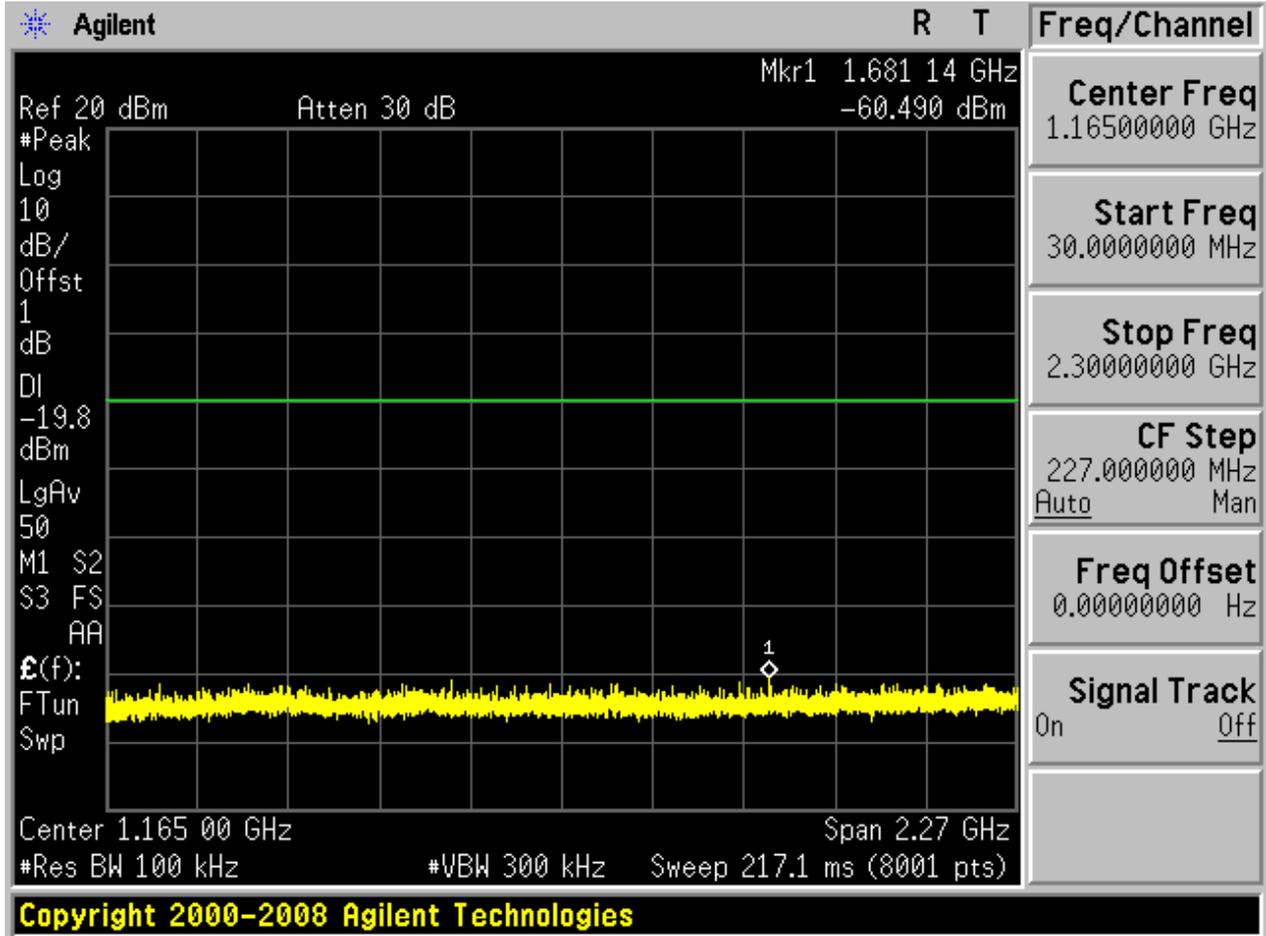


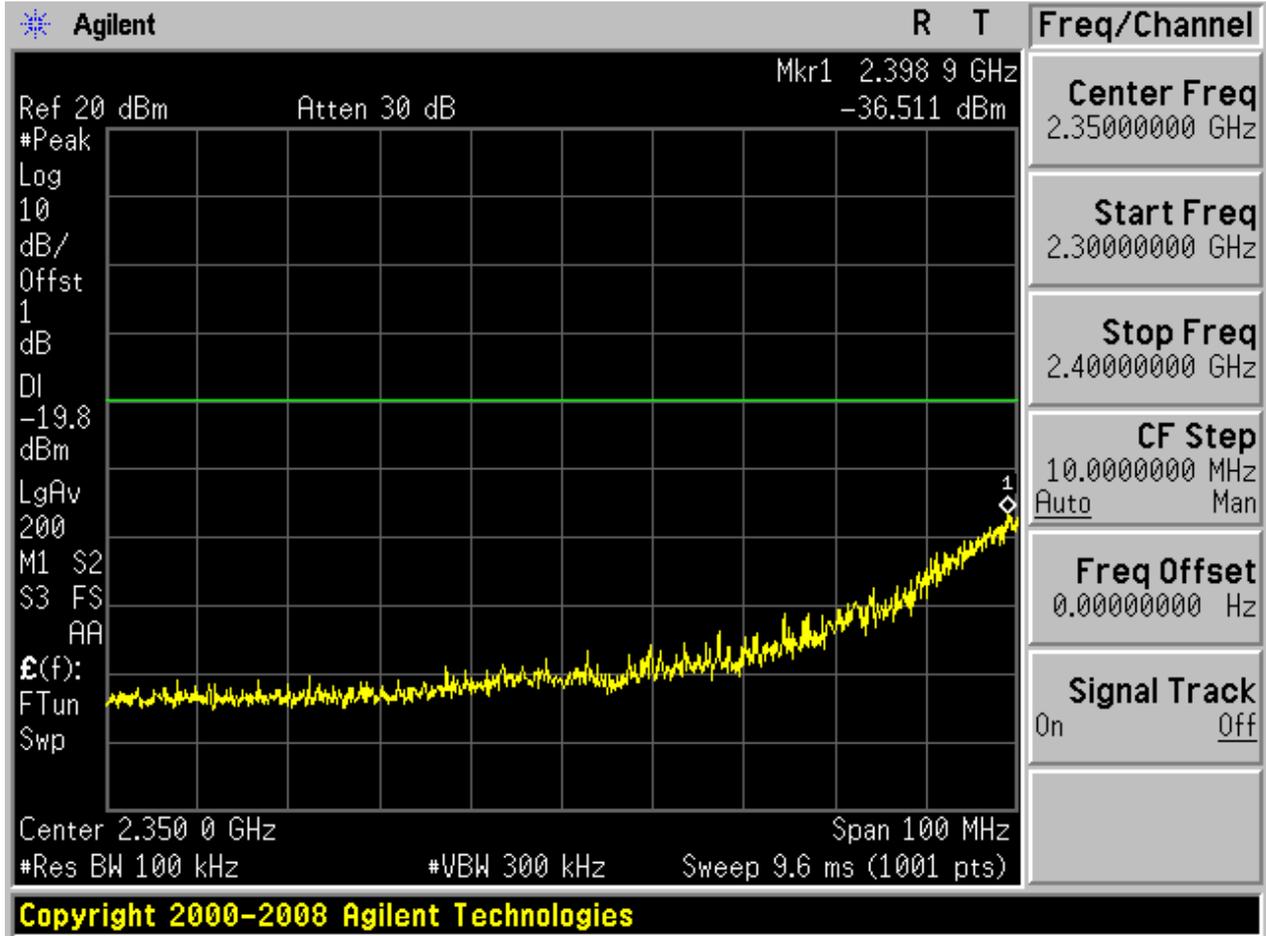


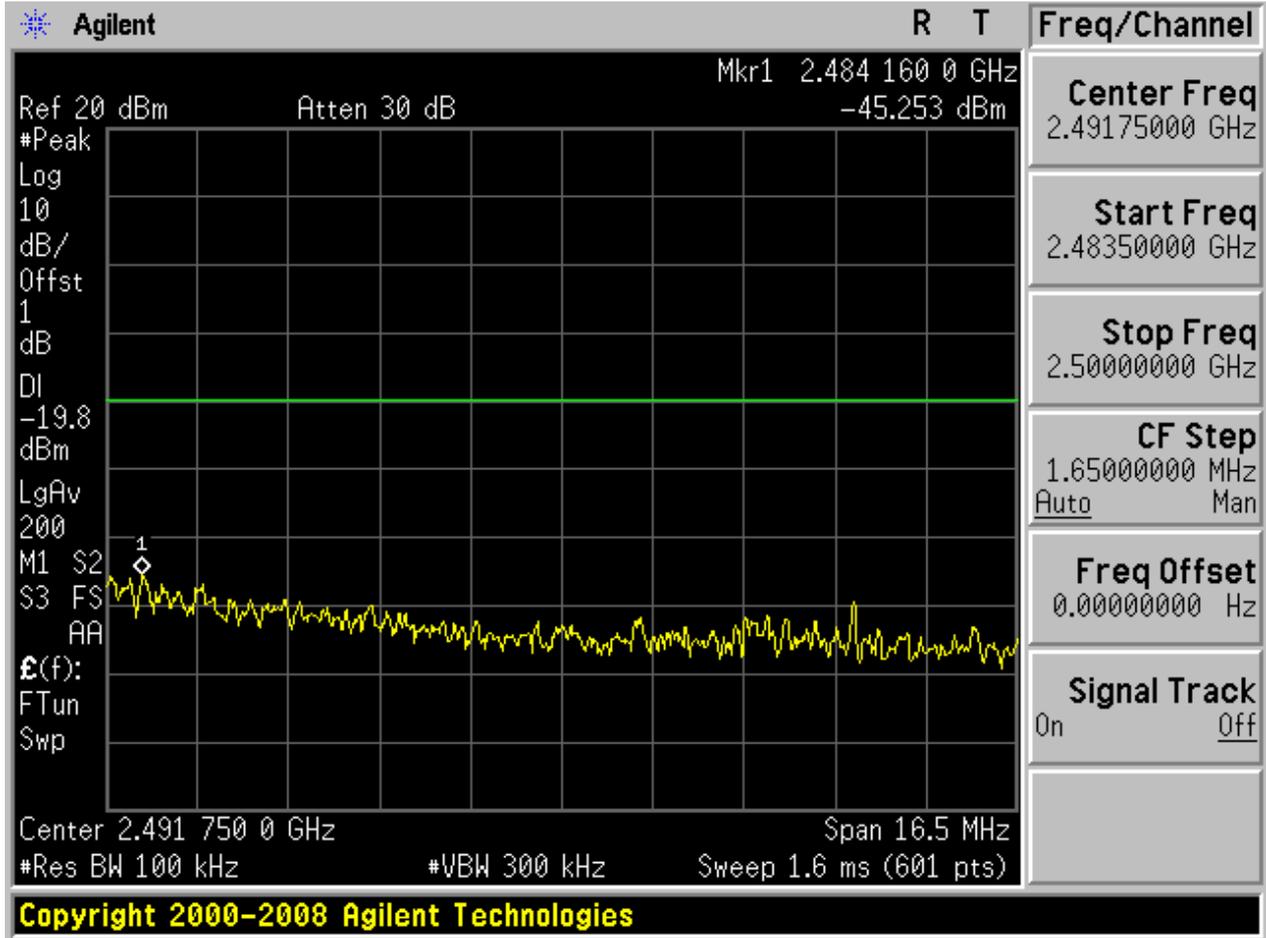
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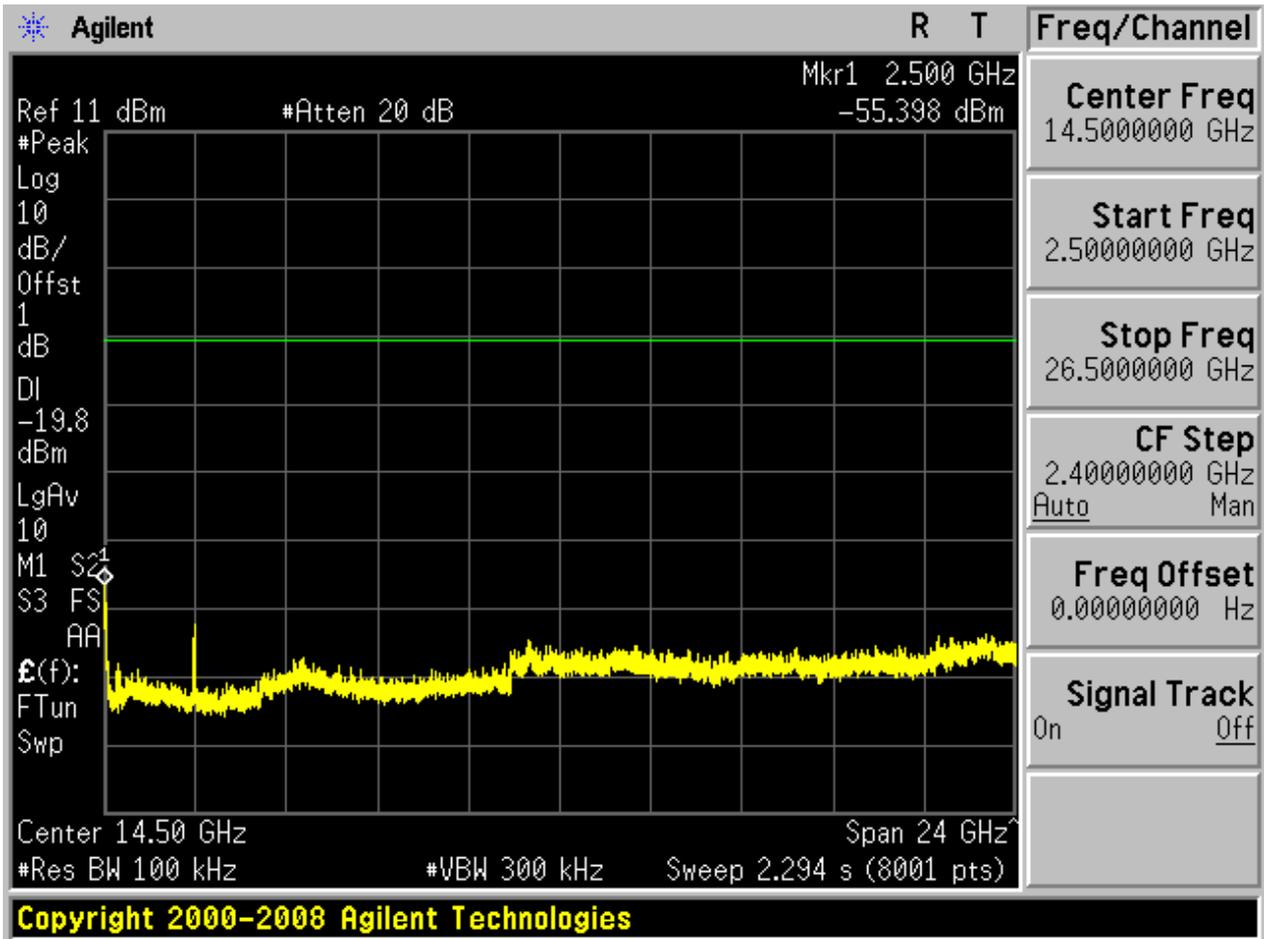






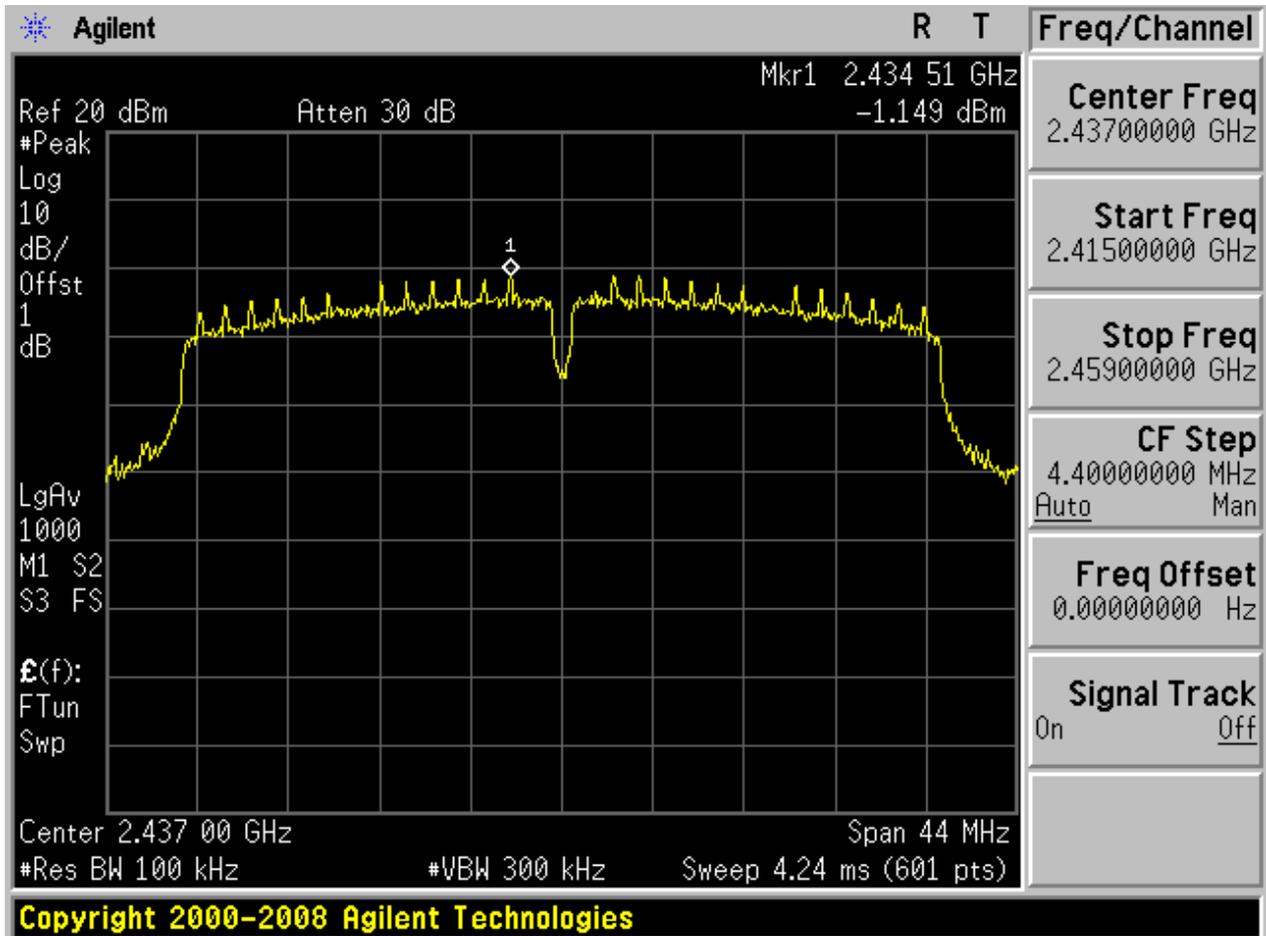






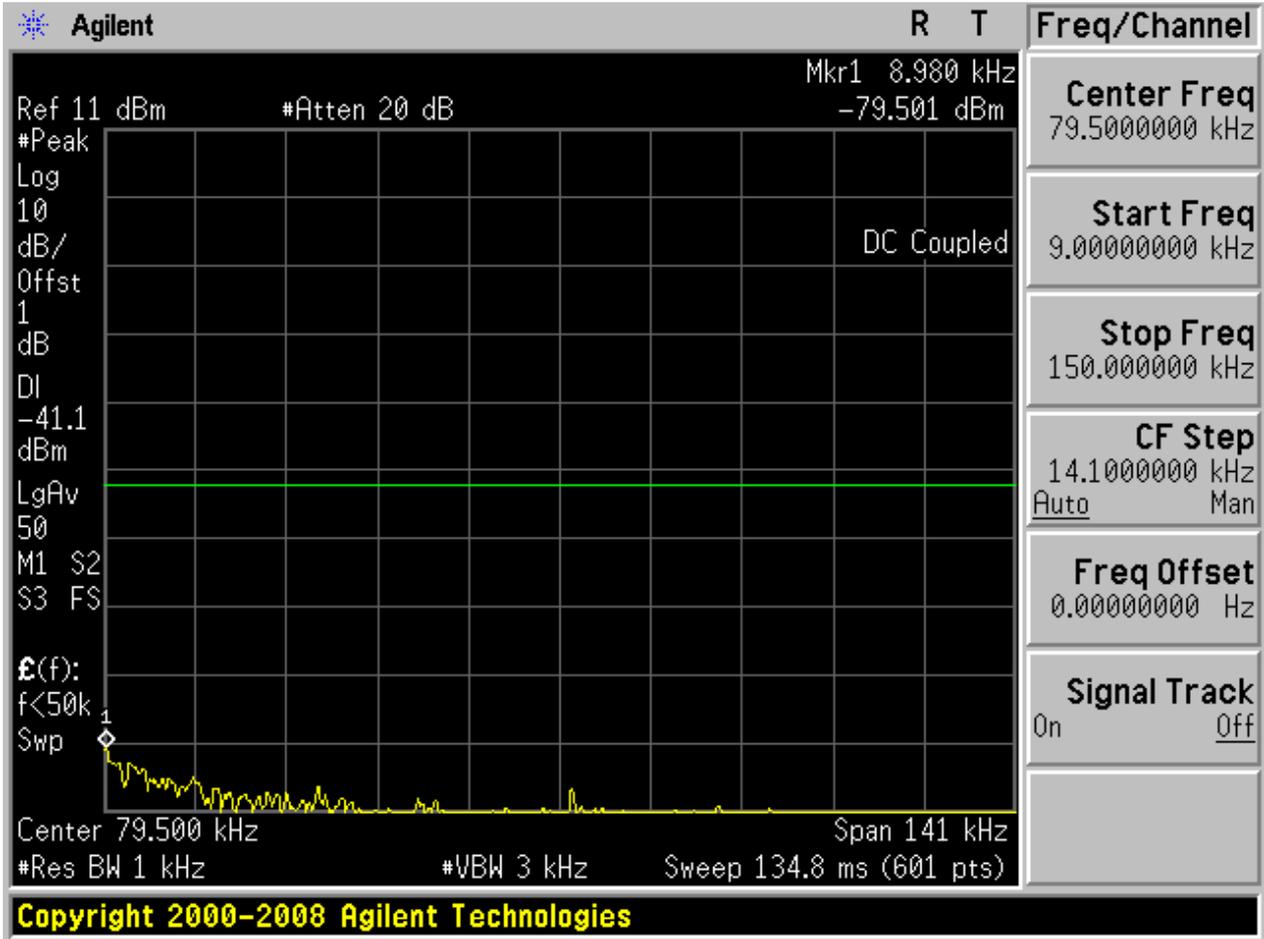
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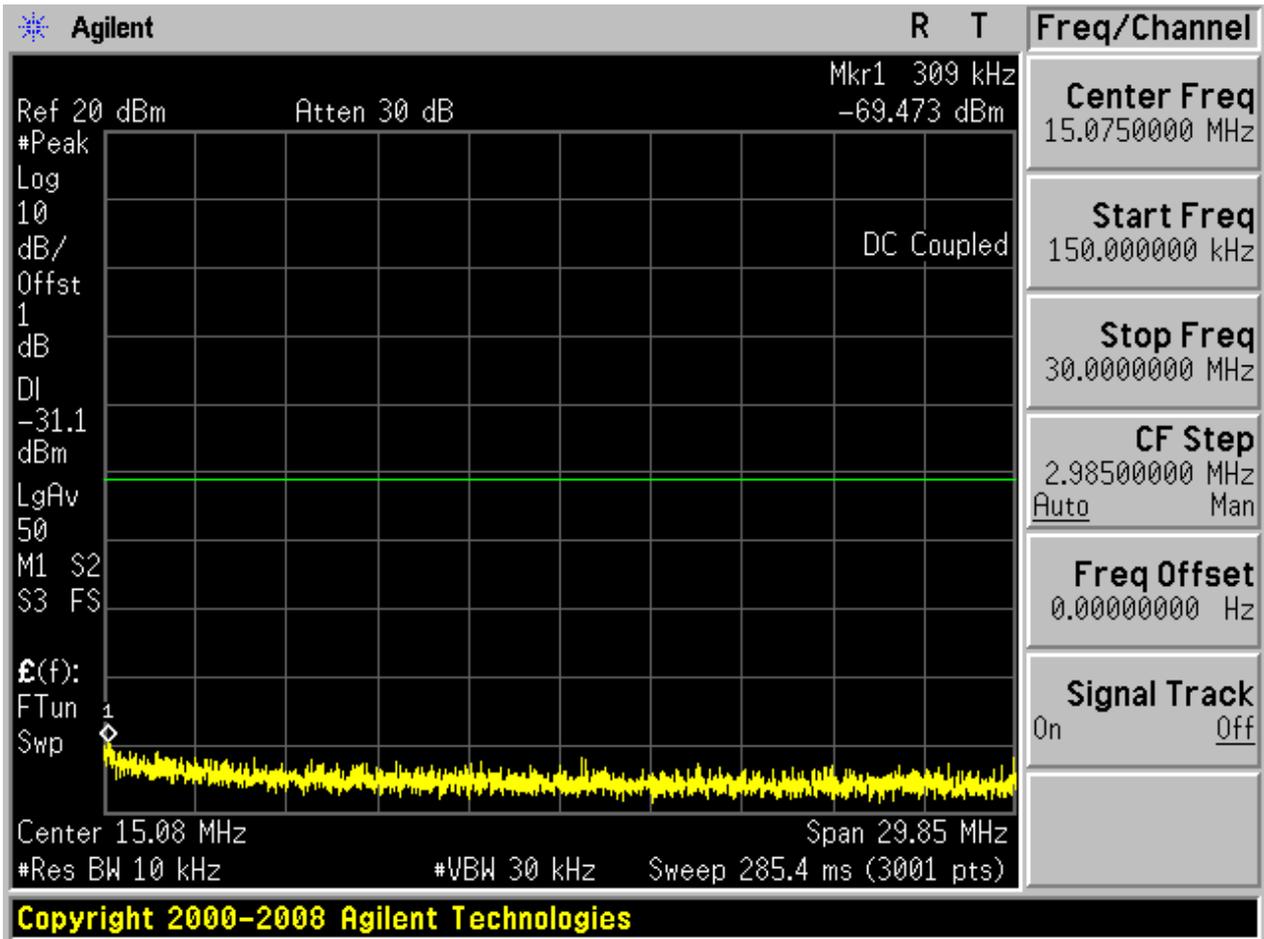
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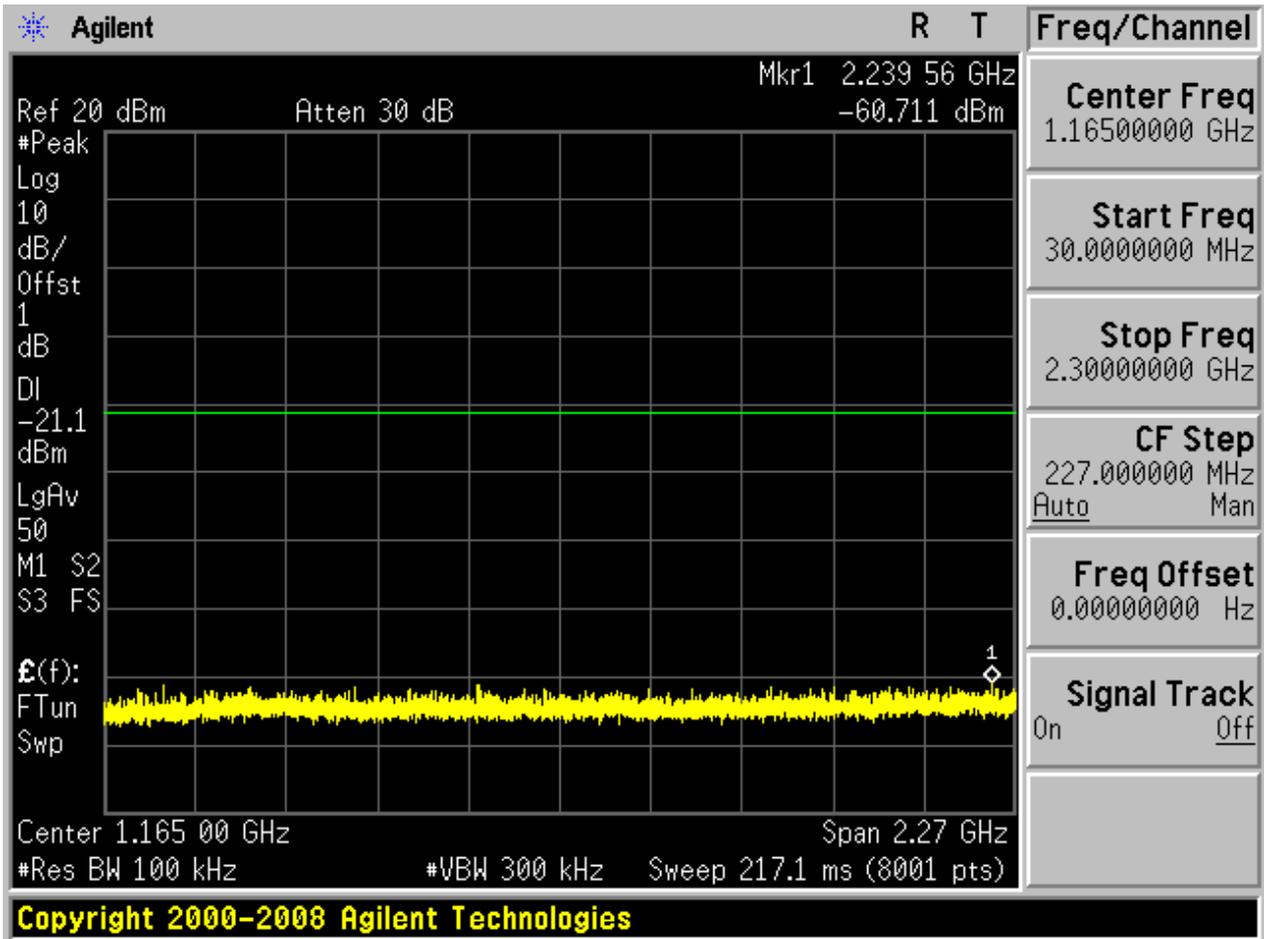


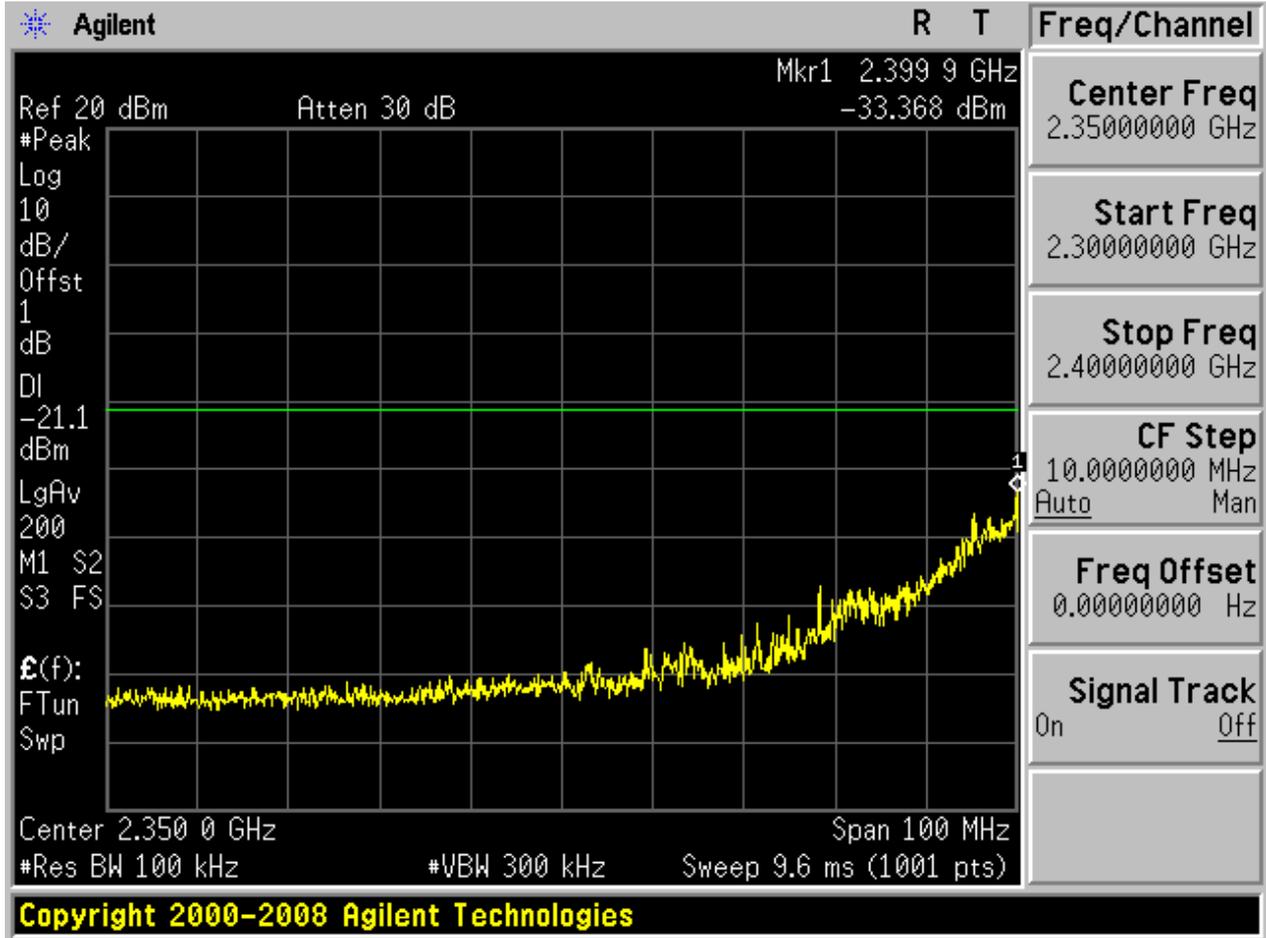


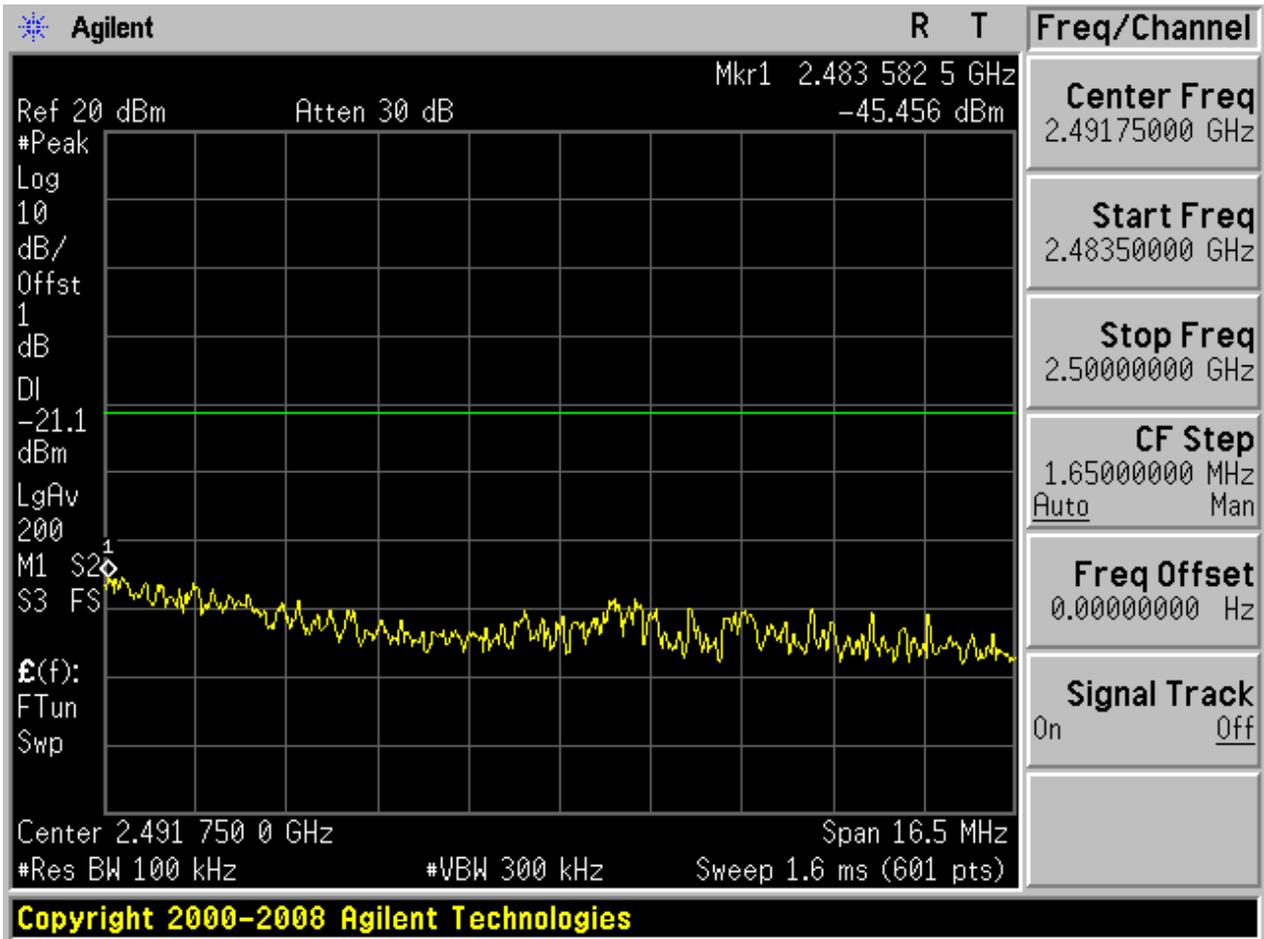
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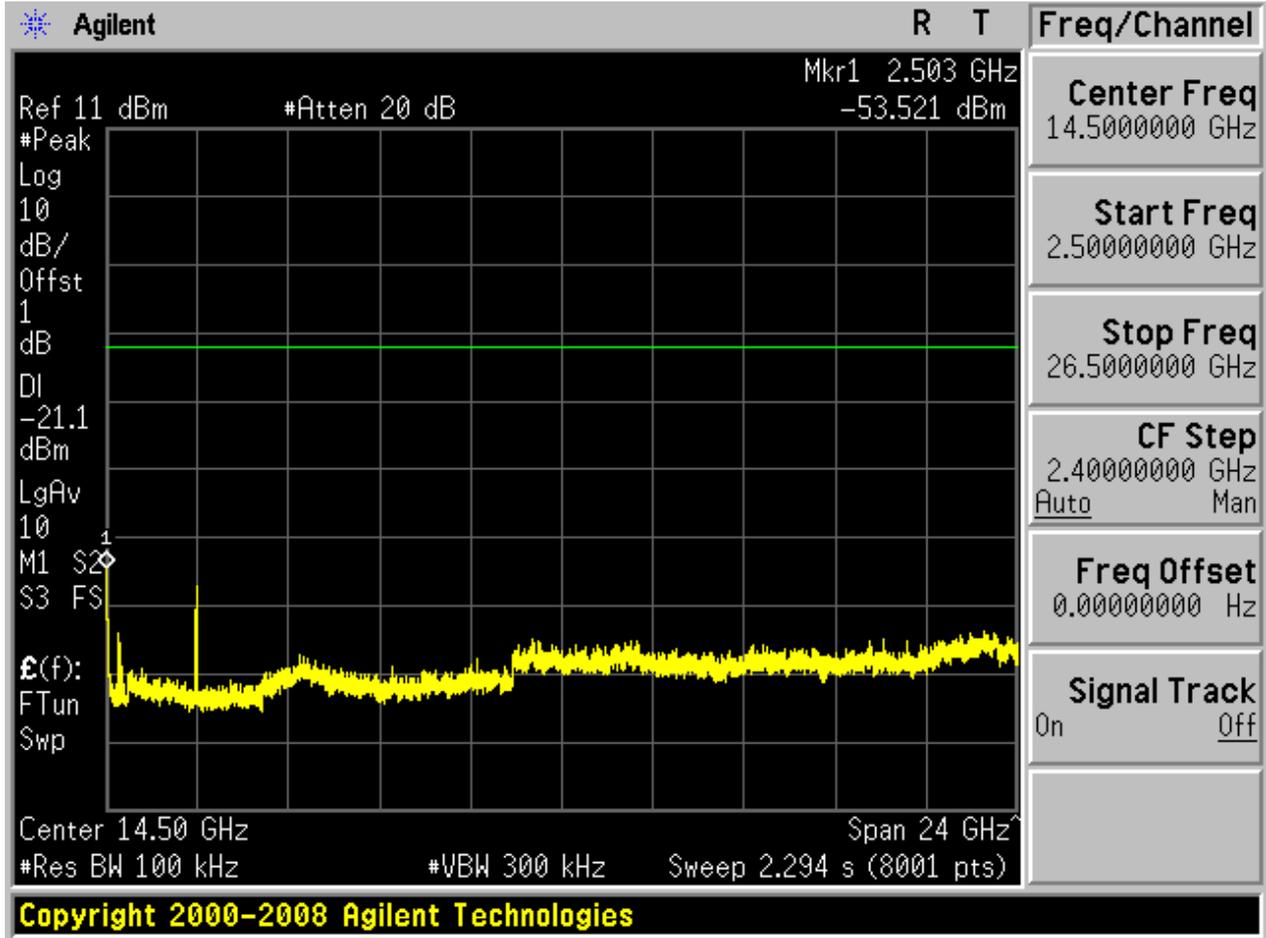








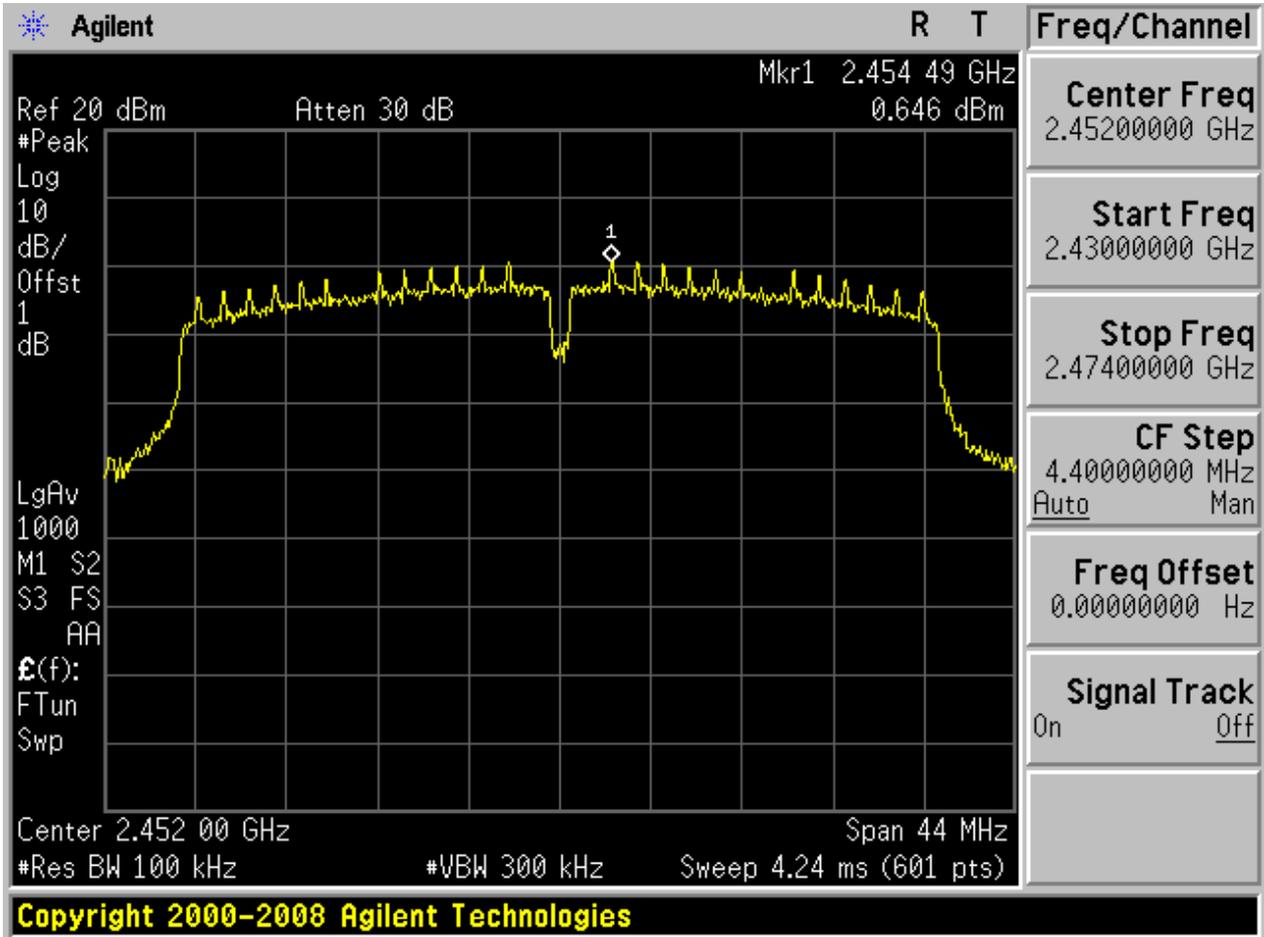






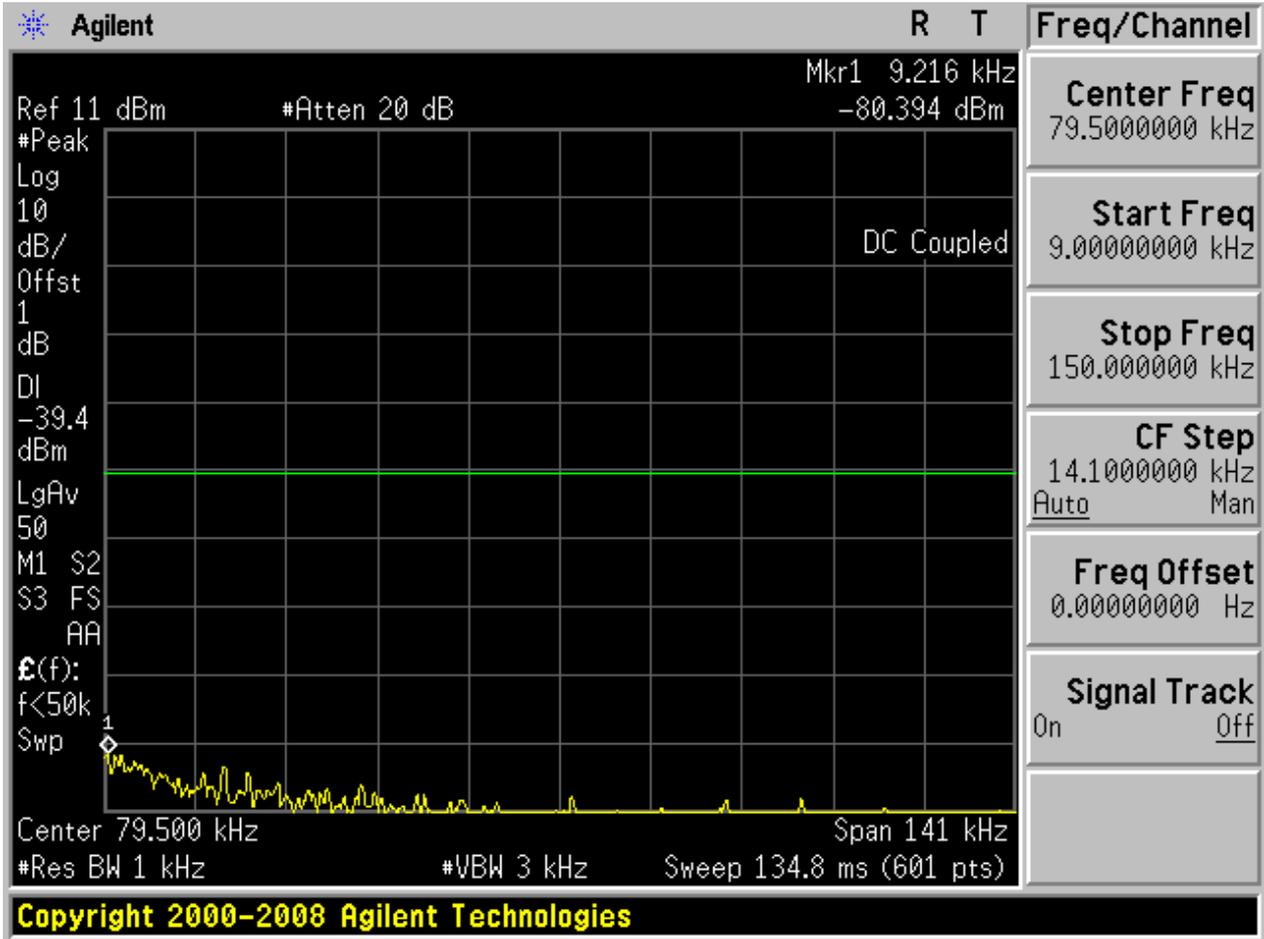
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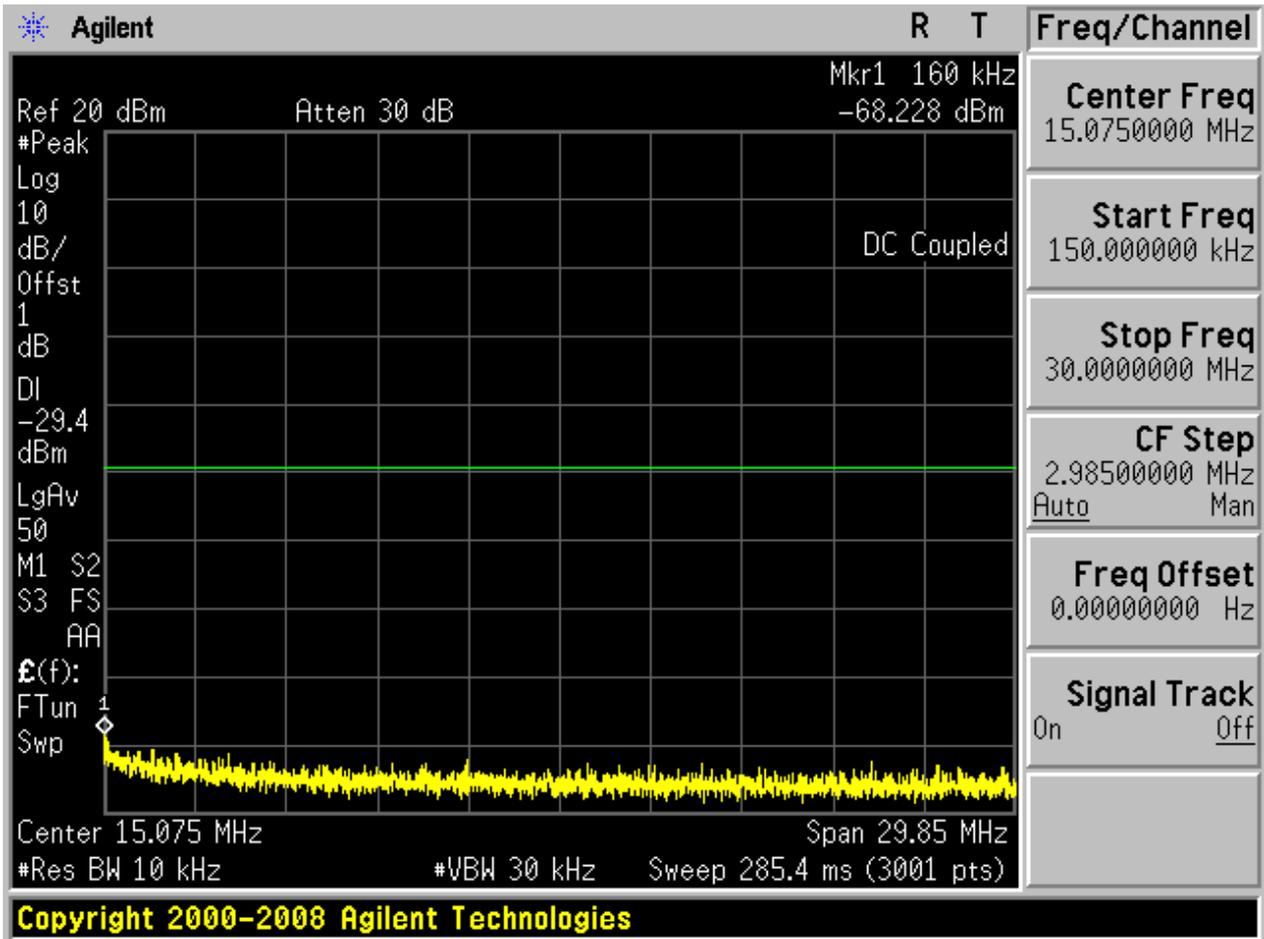
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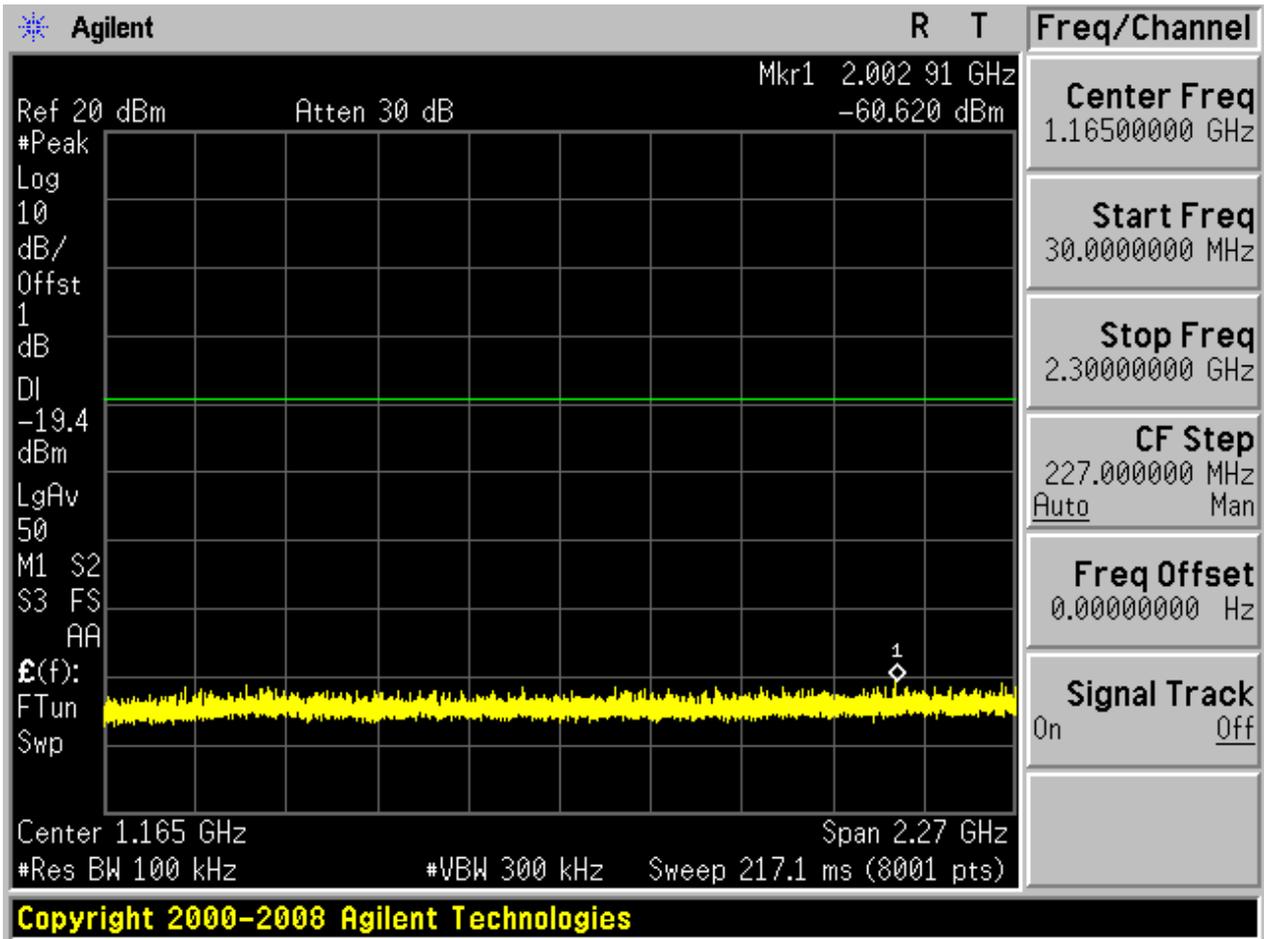


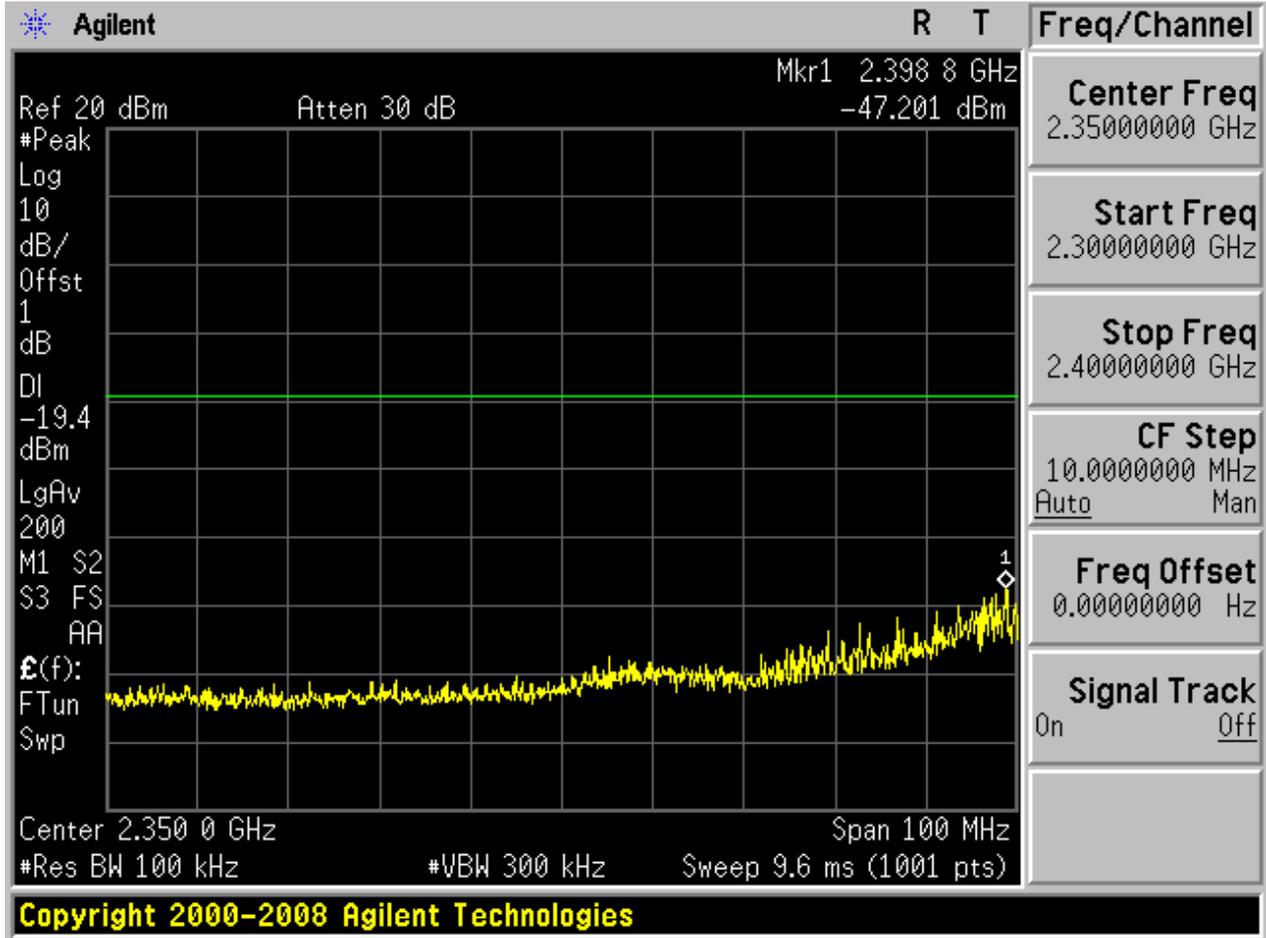


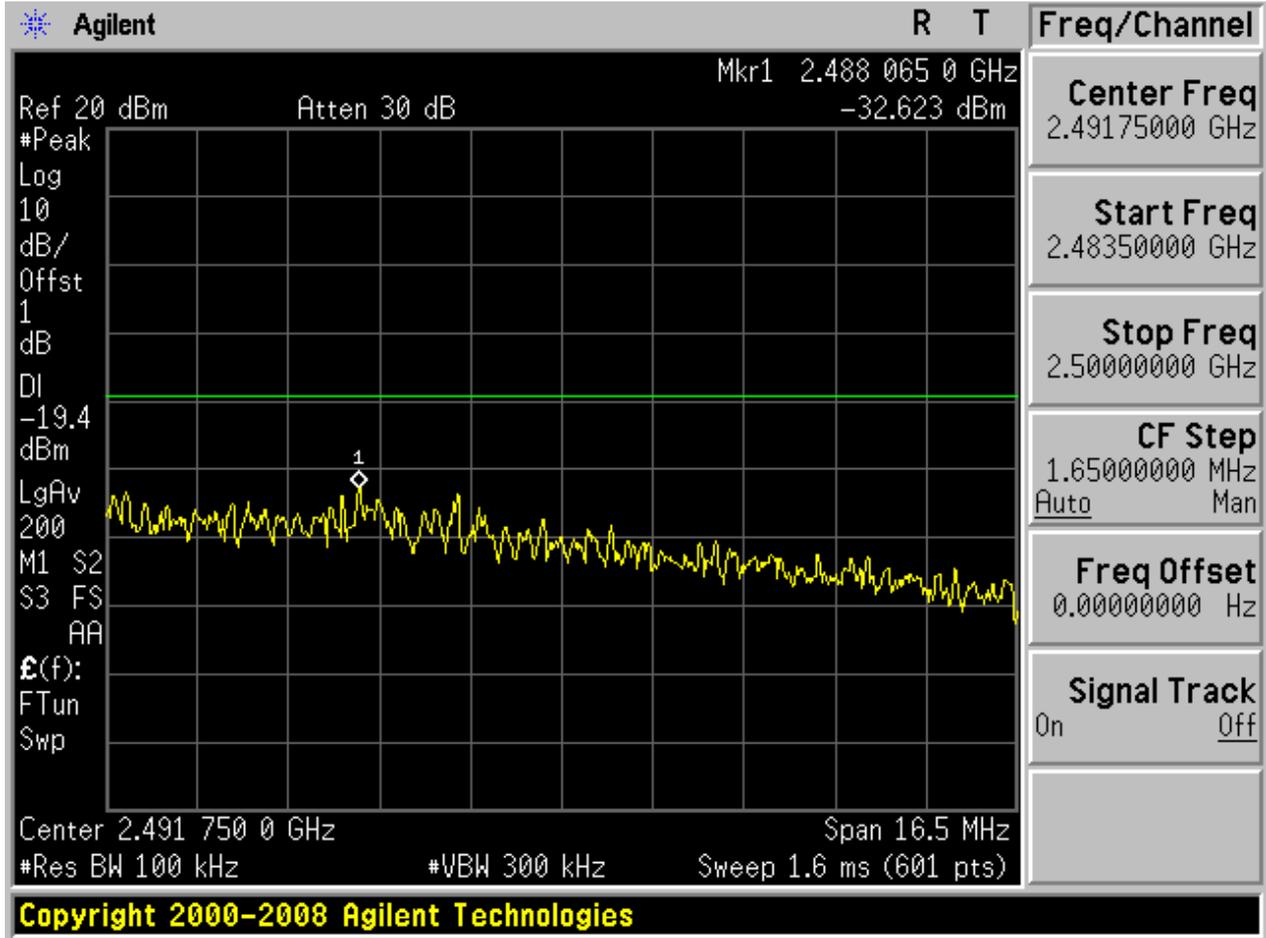
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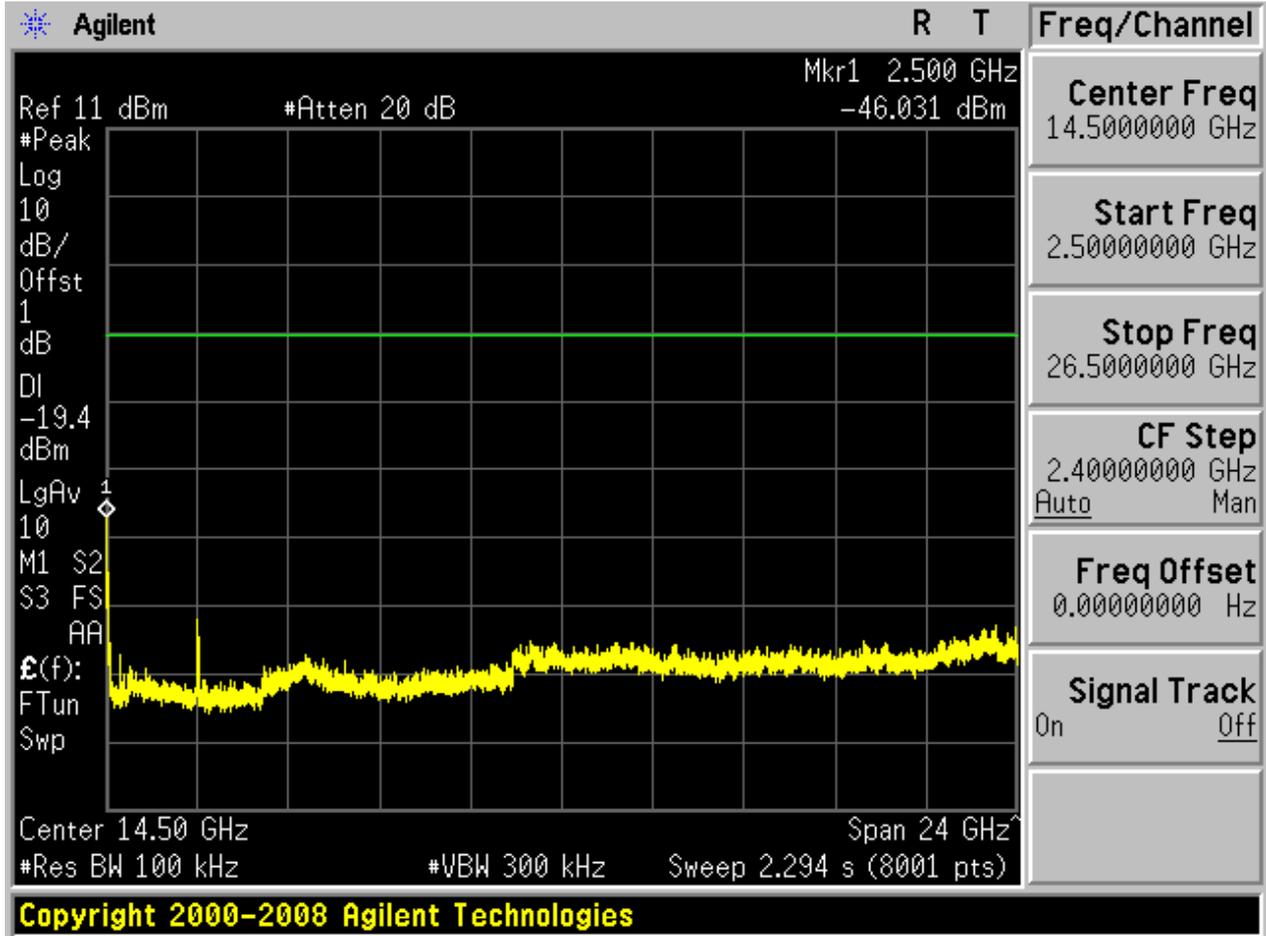








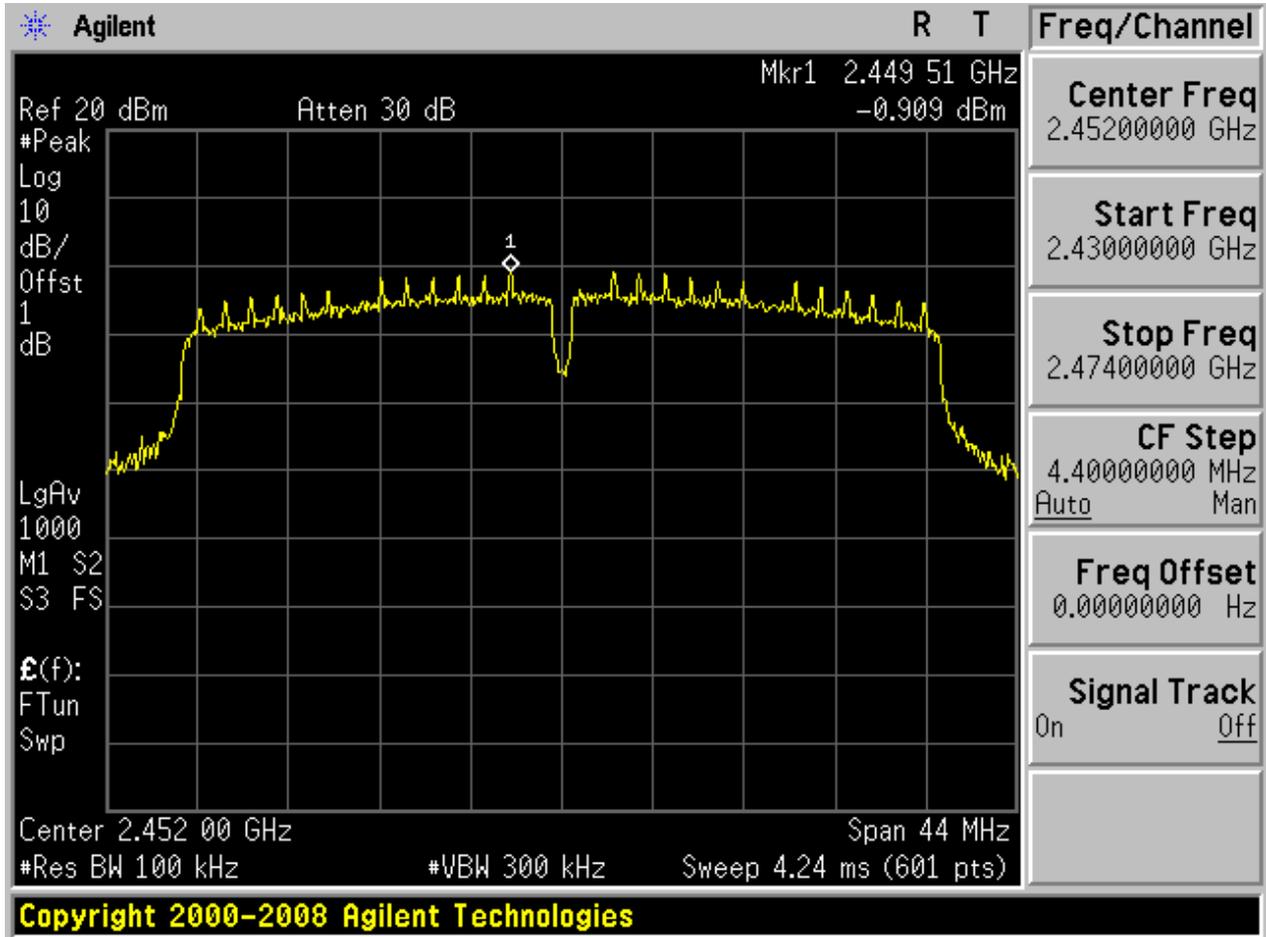






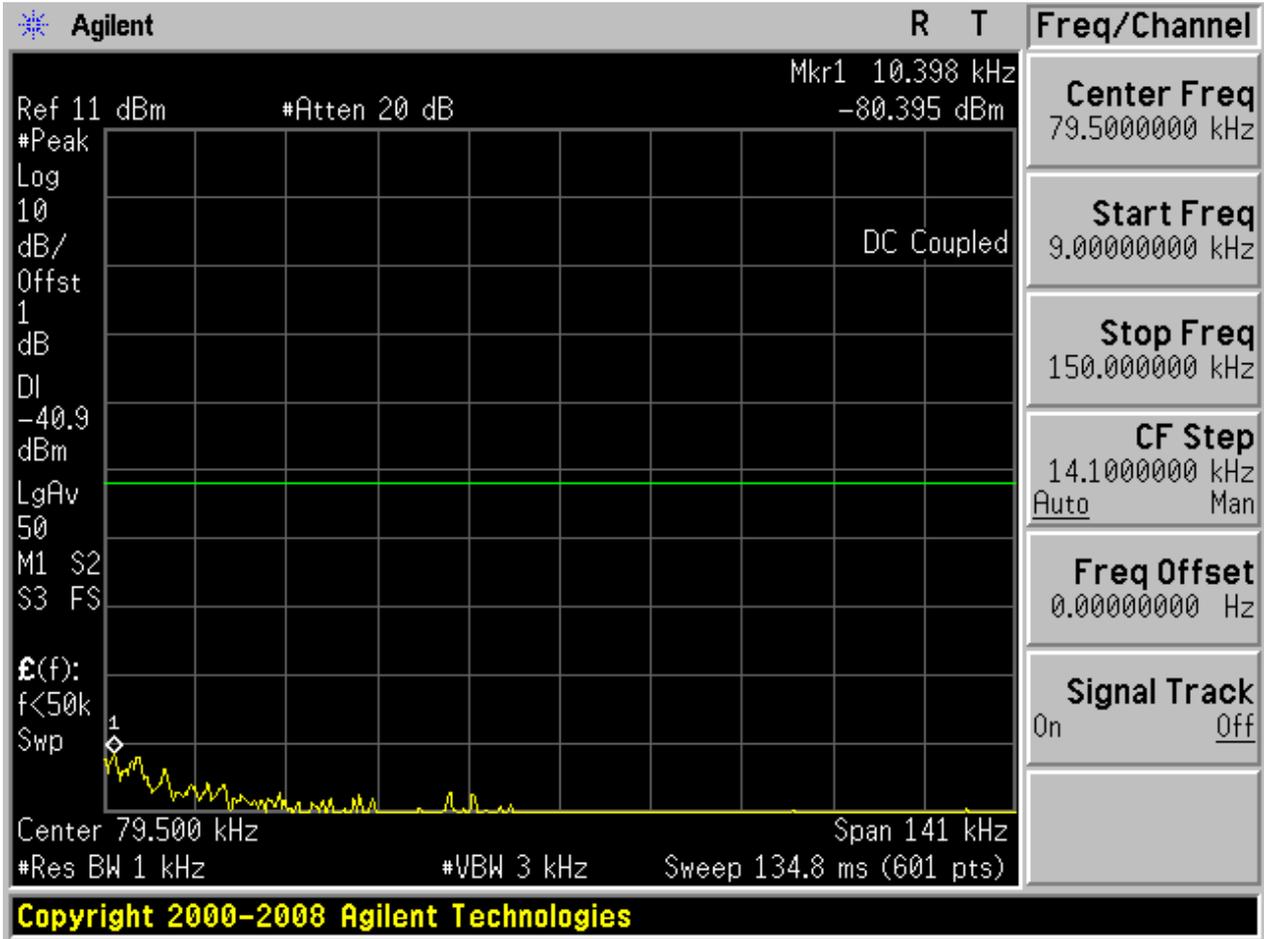
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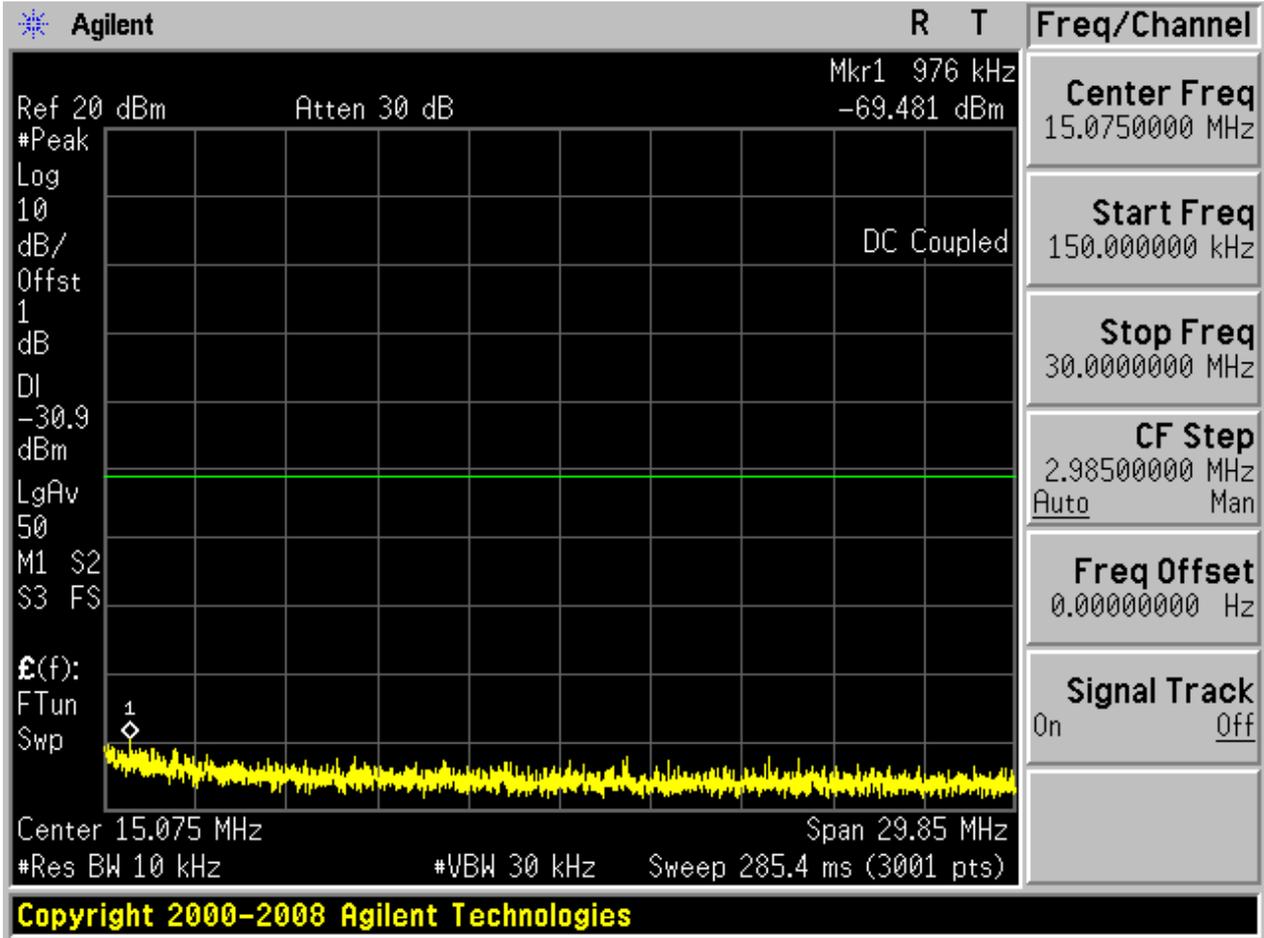
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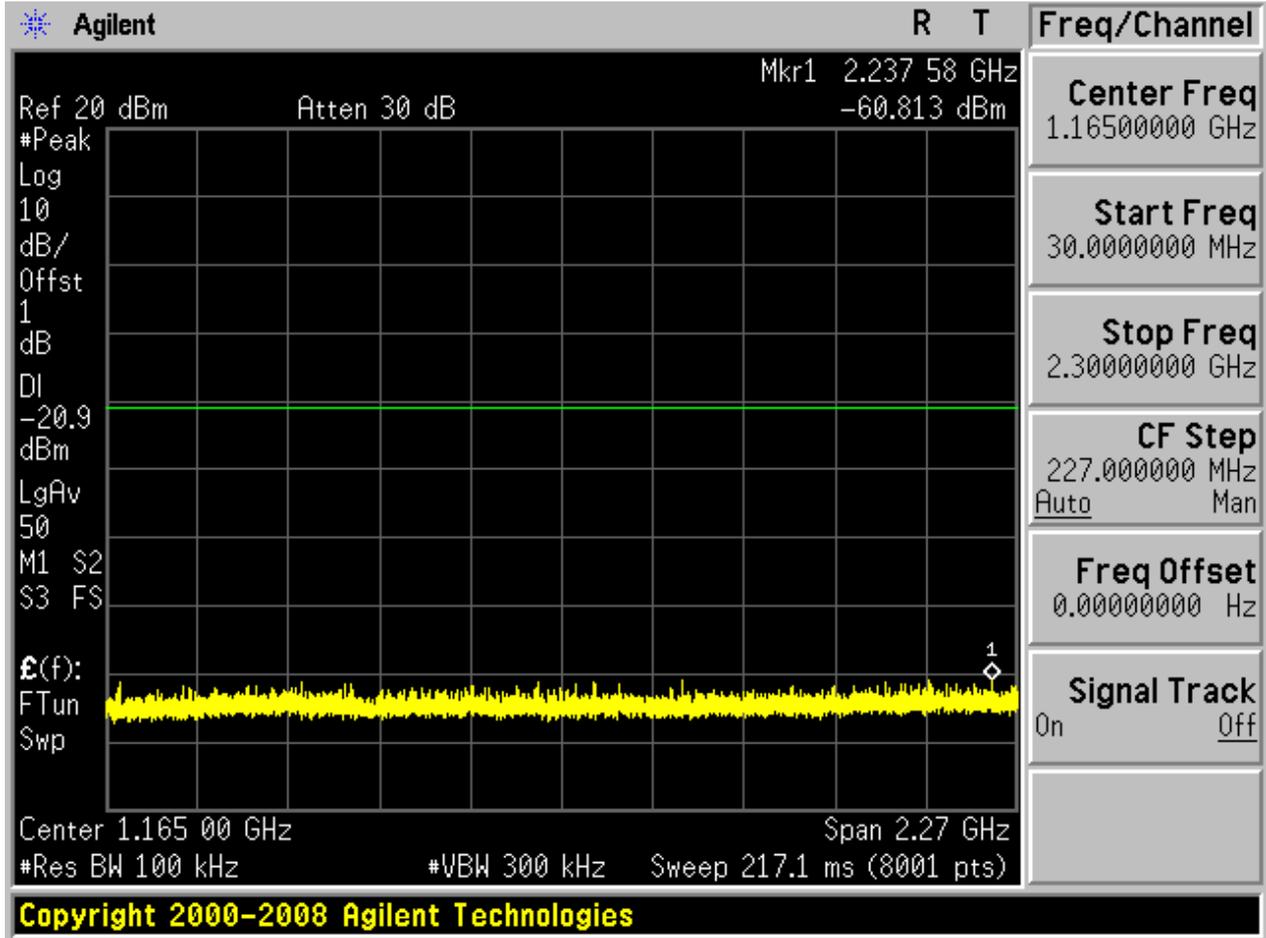


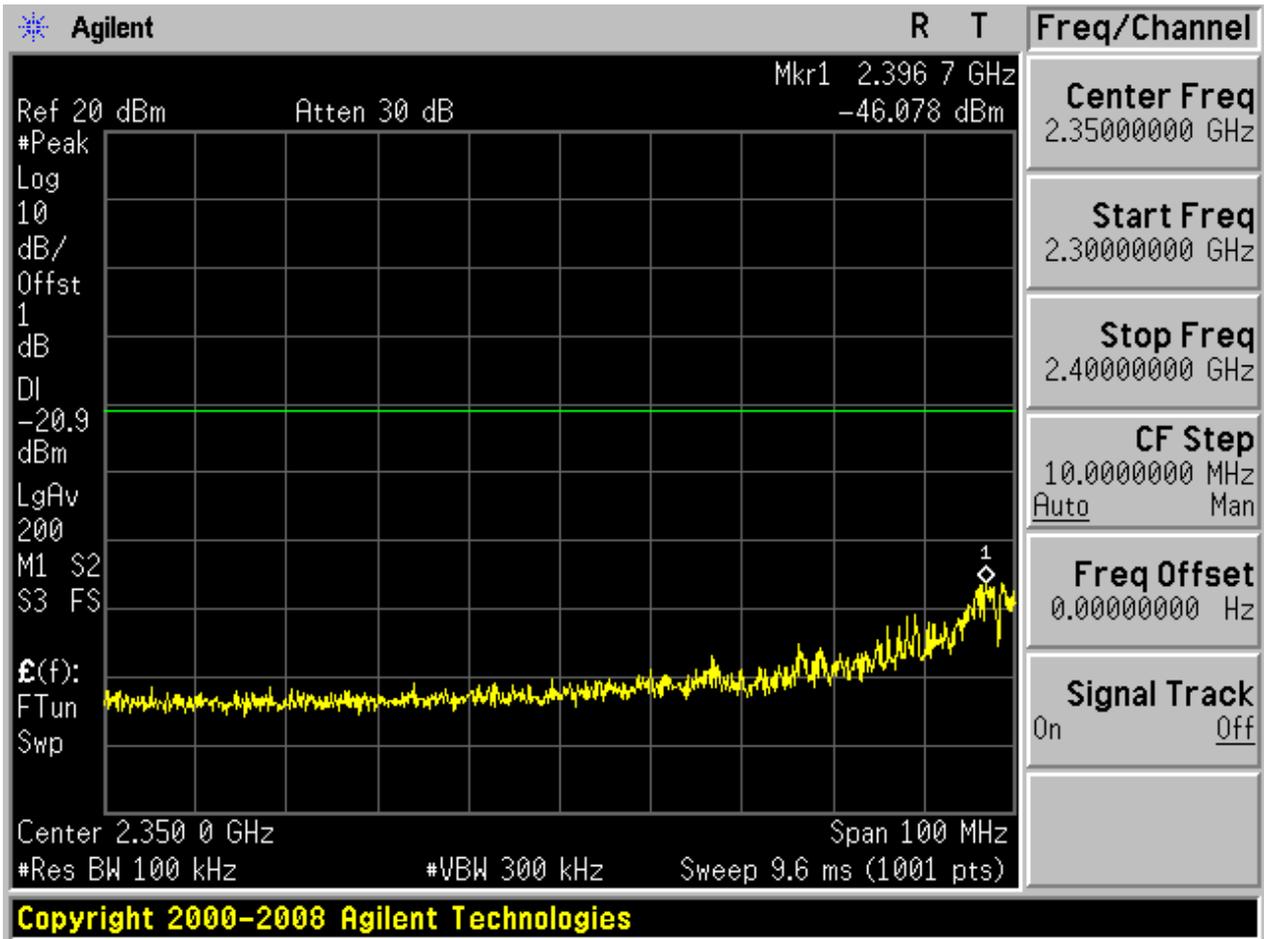


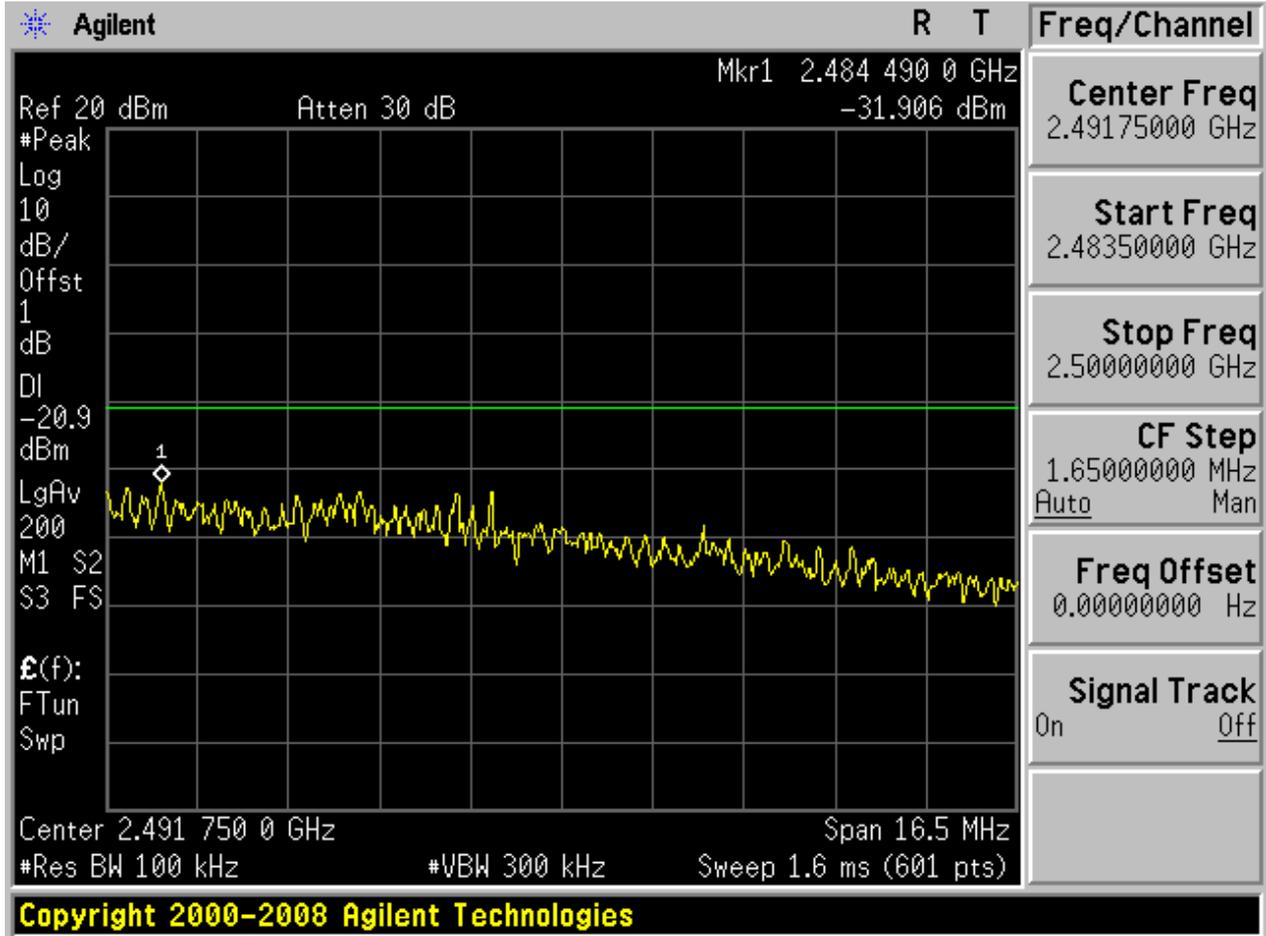
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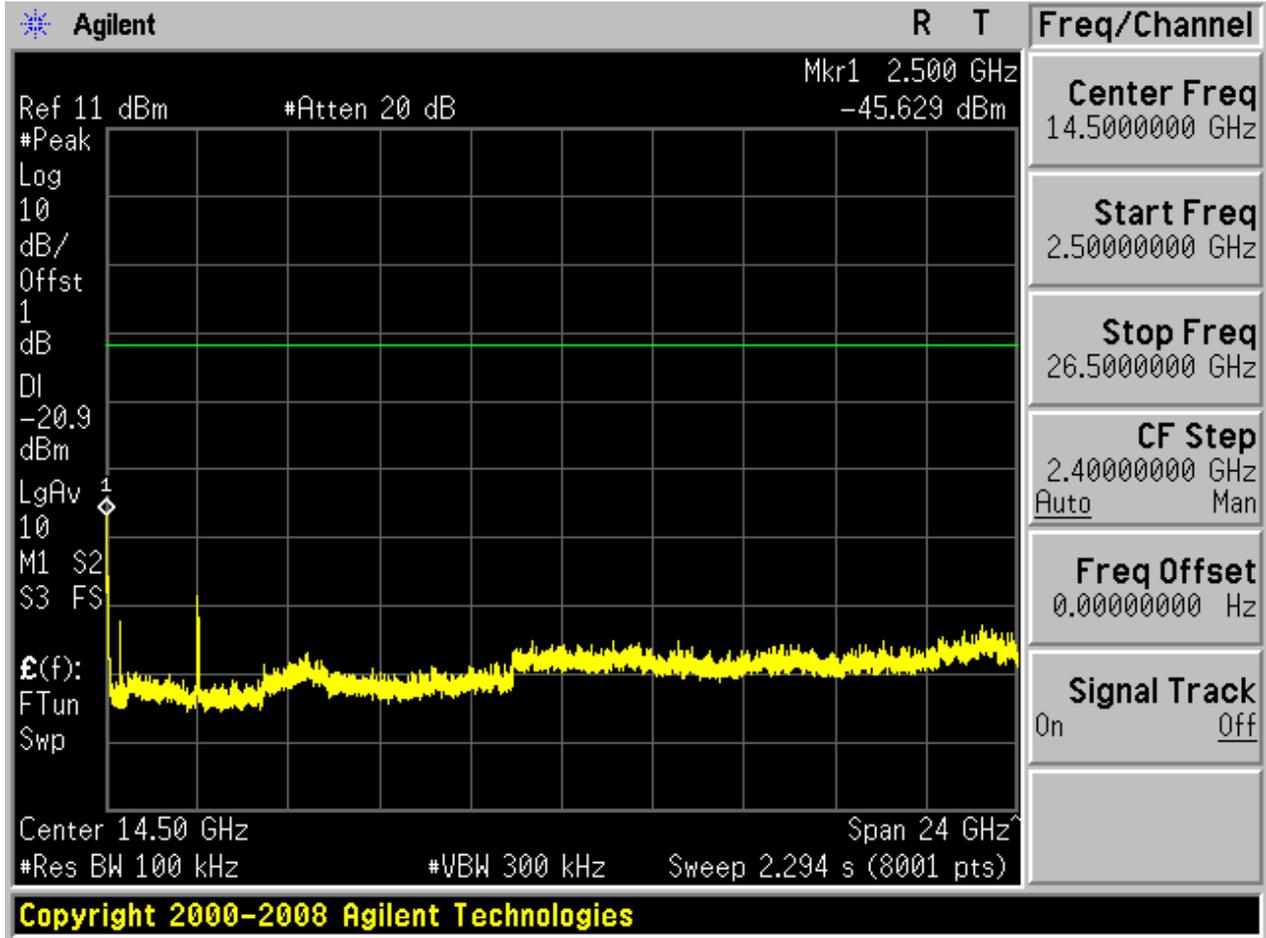










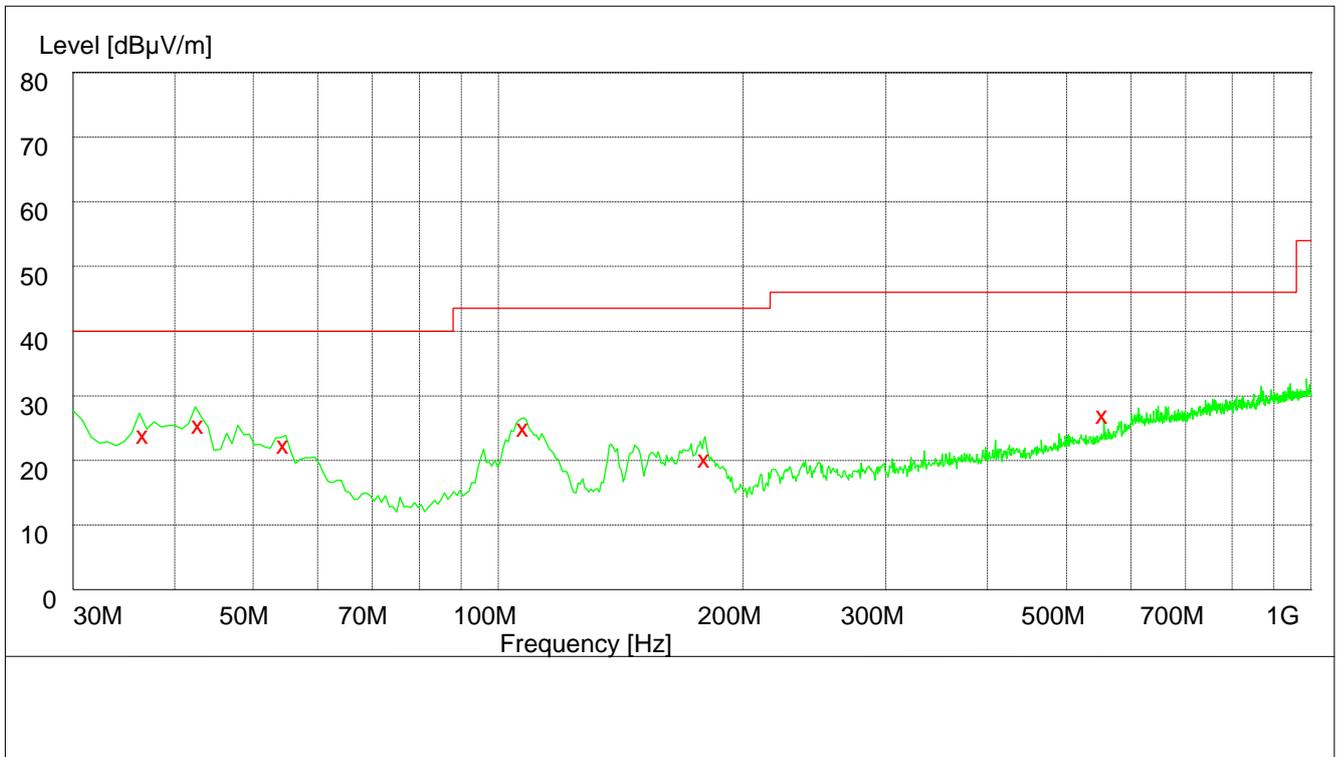


Appendix F: Unwanted Emissions into Restricted Frequency Bands (Radiated)

Part 1: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.

Note 2: **The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).**

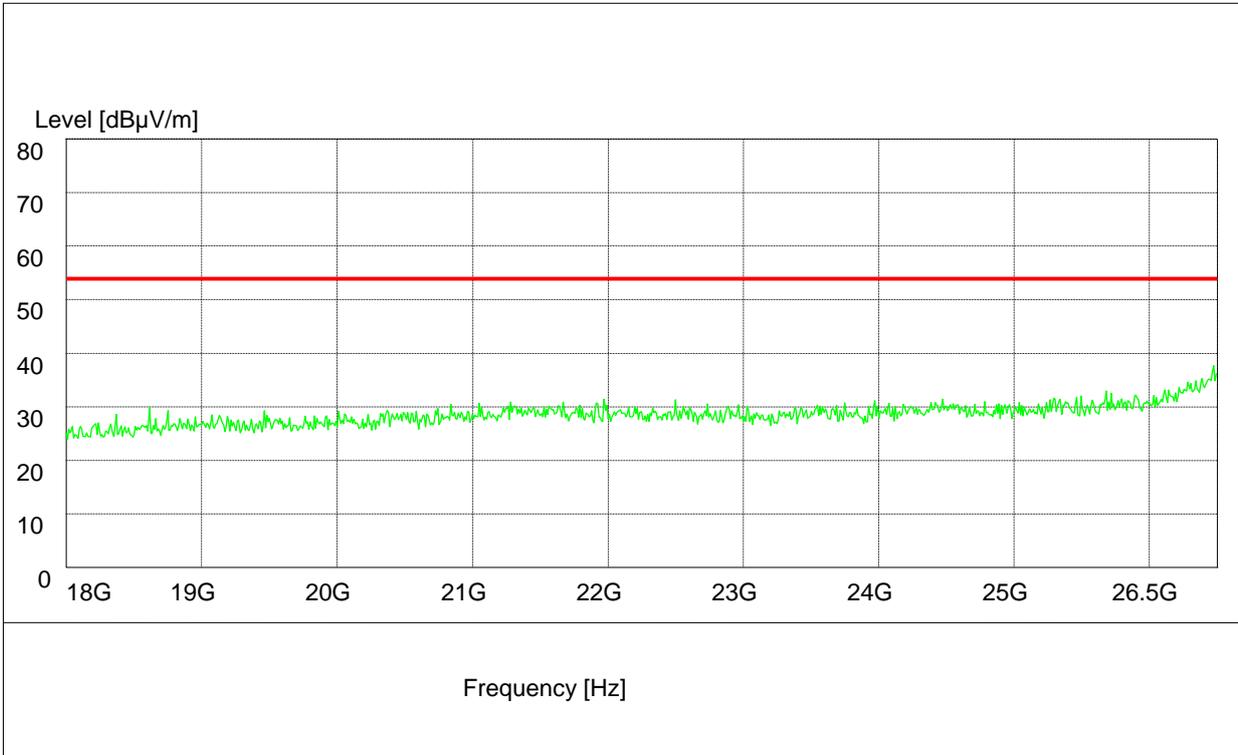


Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
36.720000	24.50	15.1	40.0	15.5	103.0	289.00	VERTICAL
42.900000	26.10	15.1	40.0	13.9	103.0	4.00	VERTICAL
54.540000	23.00	14.6	40.0	17.0	103.0	286.00	VERTICAL
107.700000	25.70	13.2	43.5	17.8	100.0	24.00	VERTICAL
180.180000	20.80	11.3	43.5	22.7	103.0	110.00	VERTICAL
555.420000	27.60	20.1	46.0	18.4	136.0	256.00	VERTICAL



Part 2: Testing Range of “18 GHz to 26.5 GHz”

Note: No peak found in pre- test.



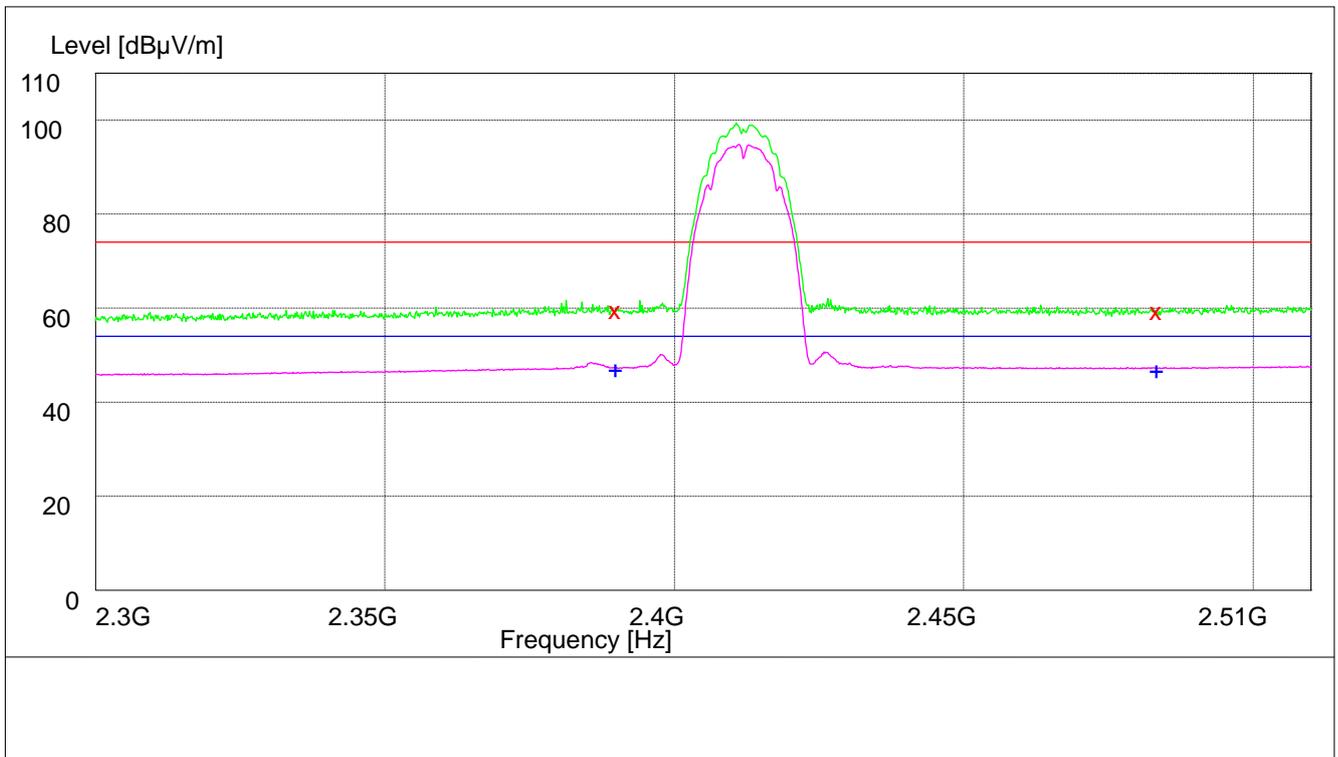


Part 3: Testing Range of “2.3GHz to 2.5GHz”

- Note 1: The testing range of “2.3 GHz to 2.5 GHz” is for checking radiated emissions located in restricted bands near the EUT operating bands.
- Note 2: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBμV/m) and Average Limit (54 dBμV/m).
- Note 3: The peak spike exceeds the limit line is EUT’s operating frequency.

Test Mode: 11b

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.50	34.8	74.0	14.5	100.0	40.00	VERTICAL
2483.500000	59.40	35.1	74.0	14.6	100.0	254.00	VERTICAL

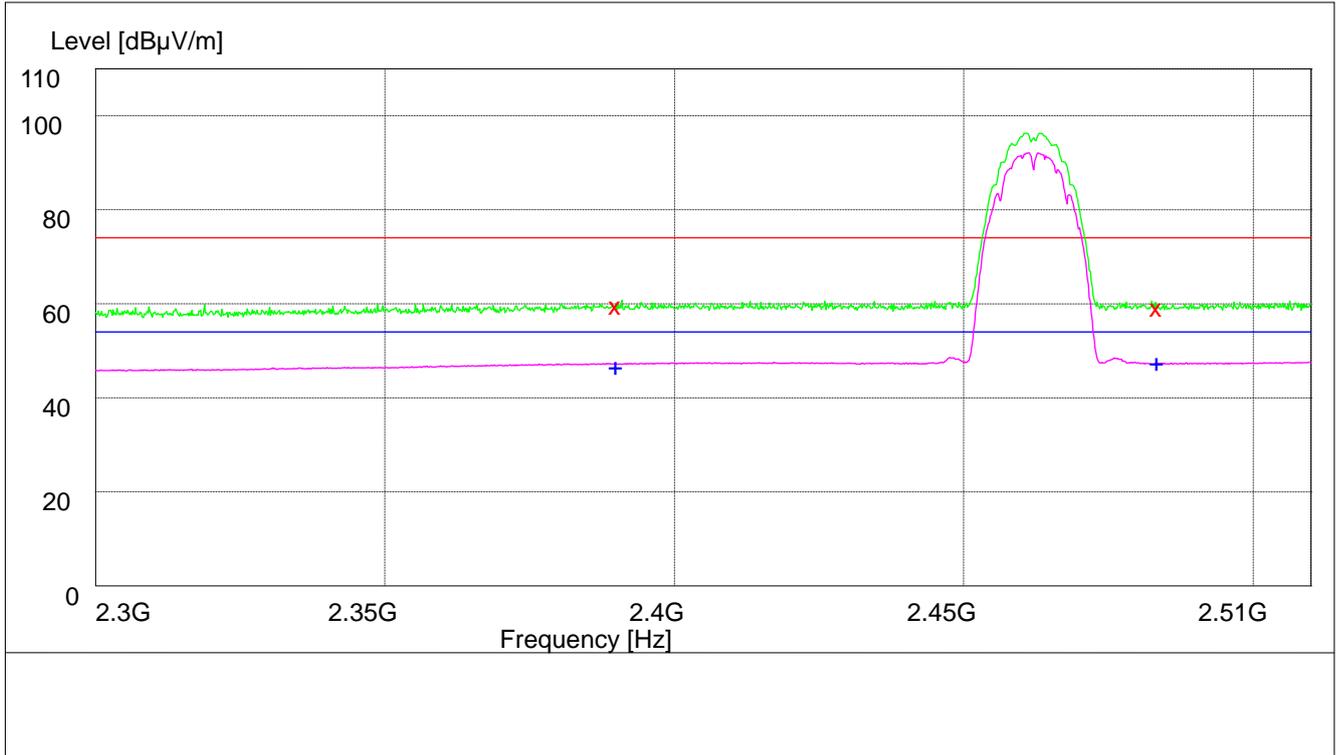
MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization



2390.000000	47.10	34.8	54.0	6.9	100.0	183.00	HORIZONTAL
2483.500000	46.80	35.1	54.0	7.2	145.0	75.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.90	34.8	74.0	14.1	150.0	13.00	VERTICAL
2483.500000	59.70	35.1	74.0	14.3	100.0	222.00	VERTICAL

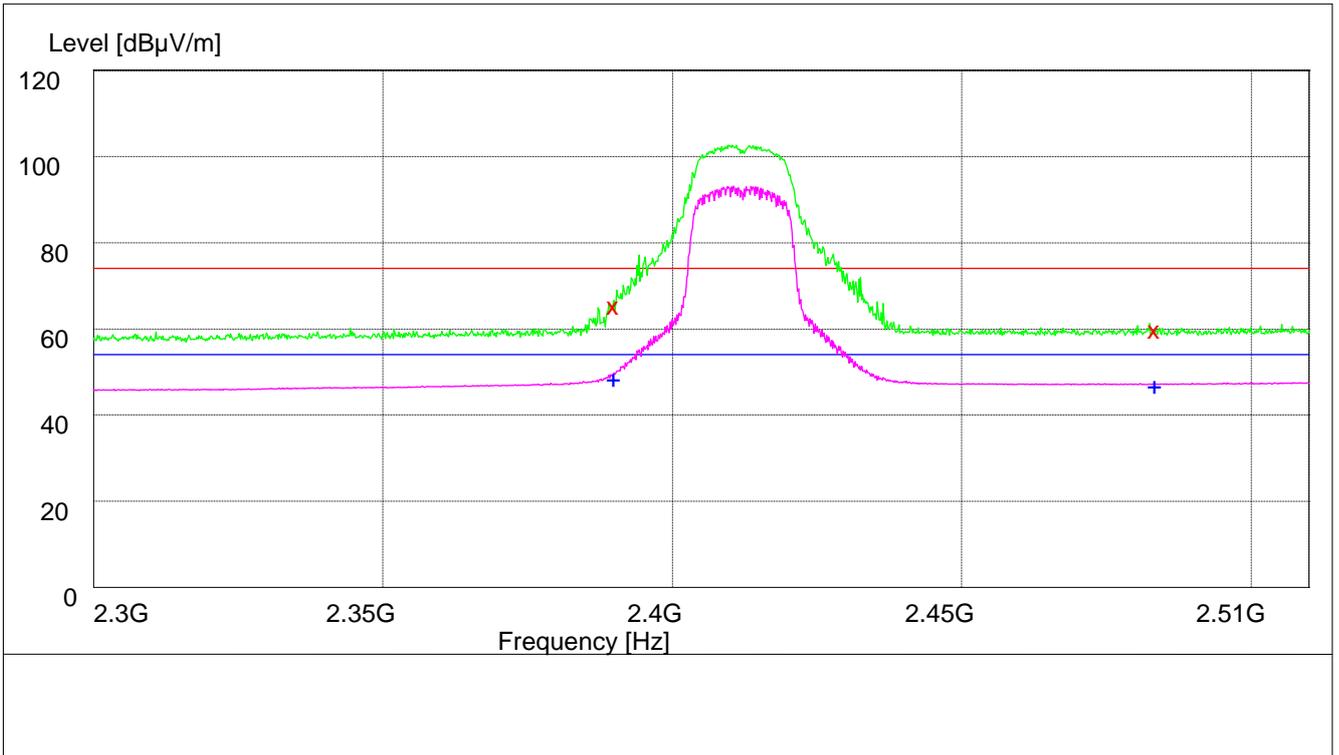
MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.10	34.8	54.0	6.9	143.0	111.00	HORIZONTAL
2483.500000	47.90	35.1	54.0	6.1	150.0	359.00	HORIZONTAL



Test Mode: 11g

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

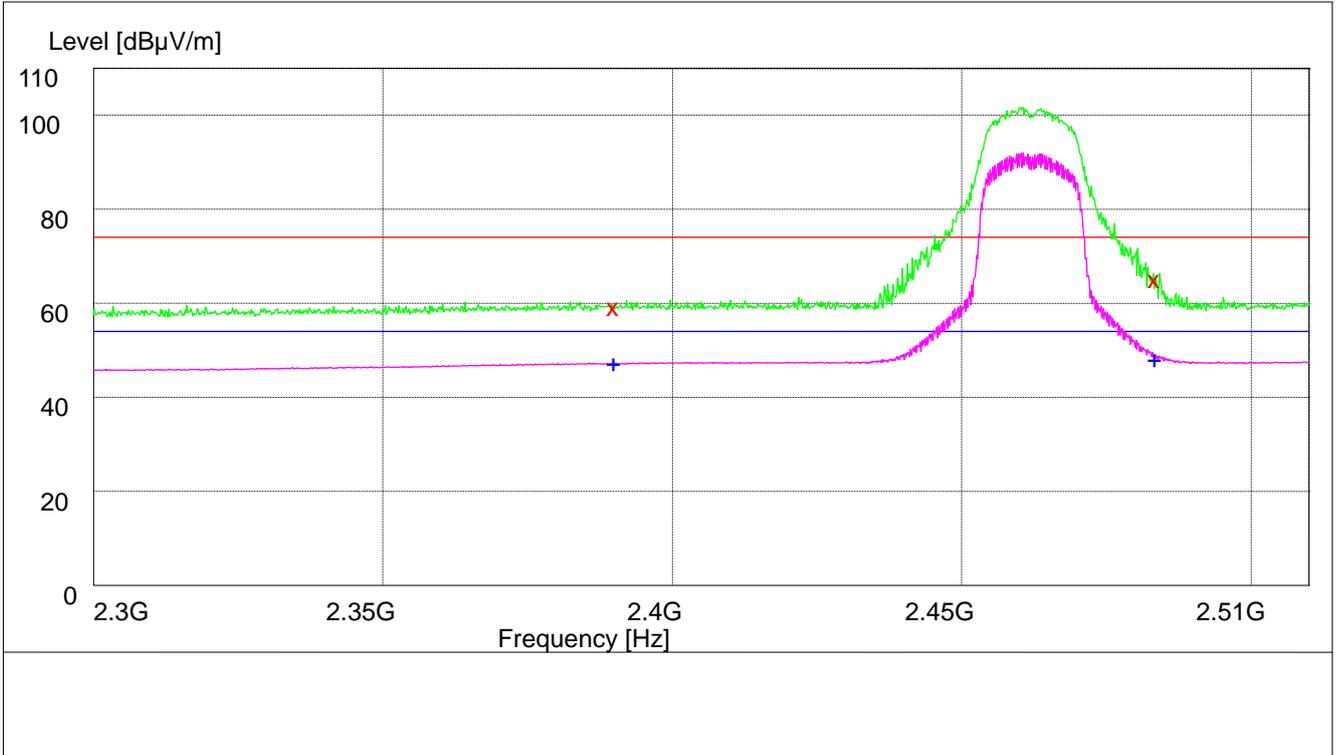
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.032000	65.20	34.8	74.0	8.8	122.0	344.00	HORIZONTAL
2483.500000	59.70	35.1	74.0	14.3	119.0	123.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	48.40	34.8	54.0	4.6	100.0	244.00	HORIZONTAL
2483.500000	46.80	35.1	54.0	7.2	125.0	191.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.60	34.8	74.0	14.4	150.0	100.00	VERTICAL
2483.500000	65.60	35.1	74.0	8.4	100.0	170.00	HORIZONTAL

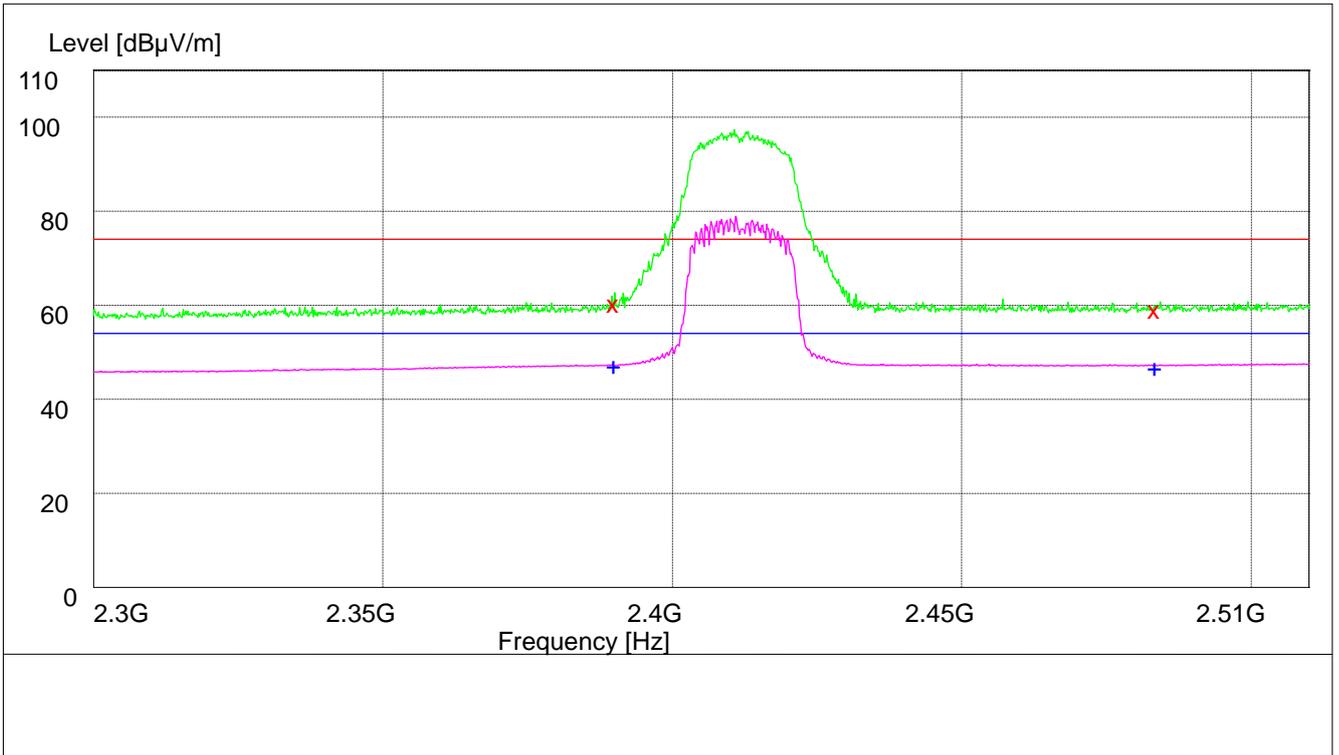
MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.80	34.8	54.0	6.2	147.0	203.00	HORIZONTAL
2483.500000	48.60	35.1	54.0	5.4	100.0	167.00	HORIZONTAL



Test Mode: 11n (20M)

Channel 01



Note: The peak exceeds the limit line is carrier frequency.

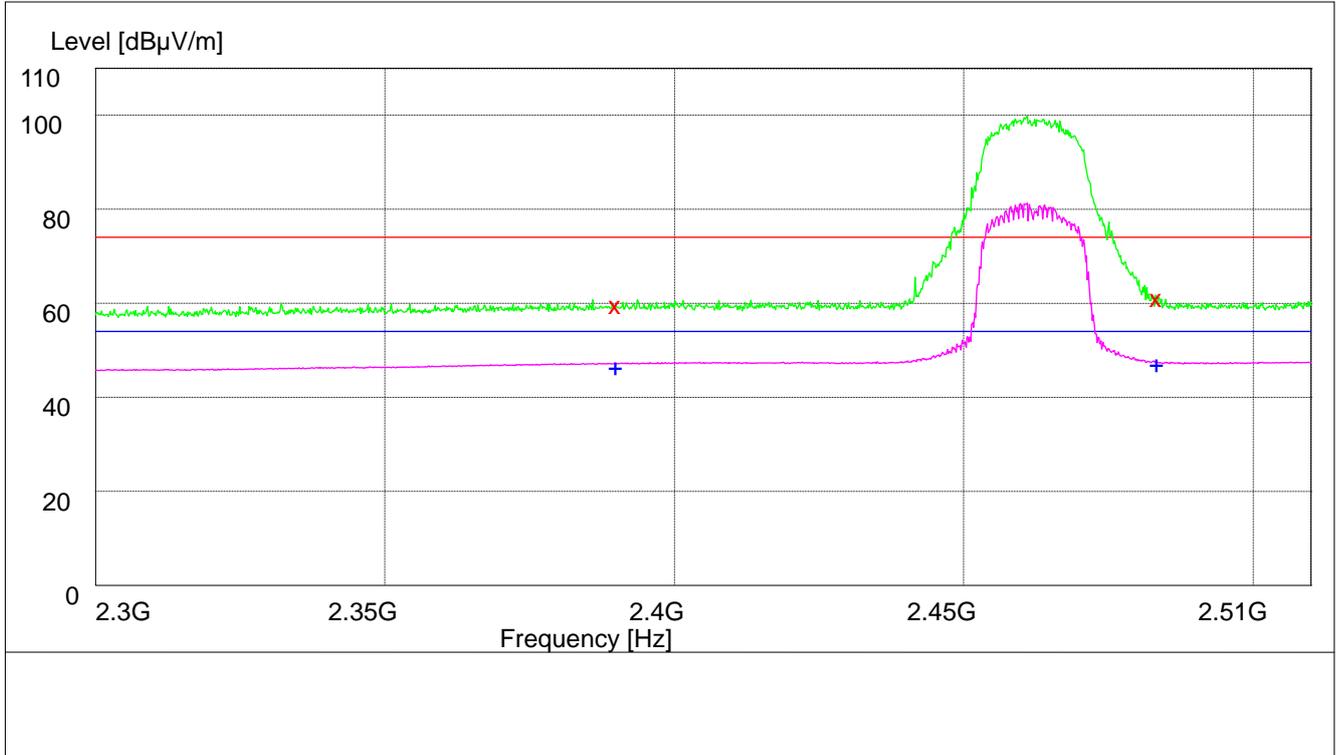
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.80	34.8	74.0	13.2	150.0	78.00	HORIZONTAL
2483.500000	59.40	35.1	74.0	14.6	111.0	341.00	VERTICAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.60	34.8	54.0	6.4	100.0	70.00	VERTICAL
2483.500000	47.20	35.1	54.0	6.8	110.0	359.00	HORIZONTAL

Channel 11



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.90	34.8	74.0	14.1	100.0	216.00	VERTICAL
2483.500000	61.50	35.1	74.0	12.5	140.0	216.00	HORIZONTAL

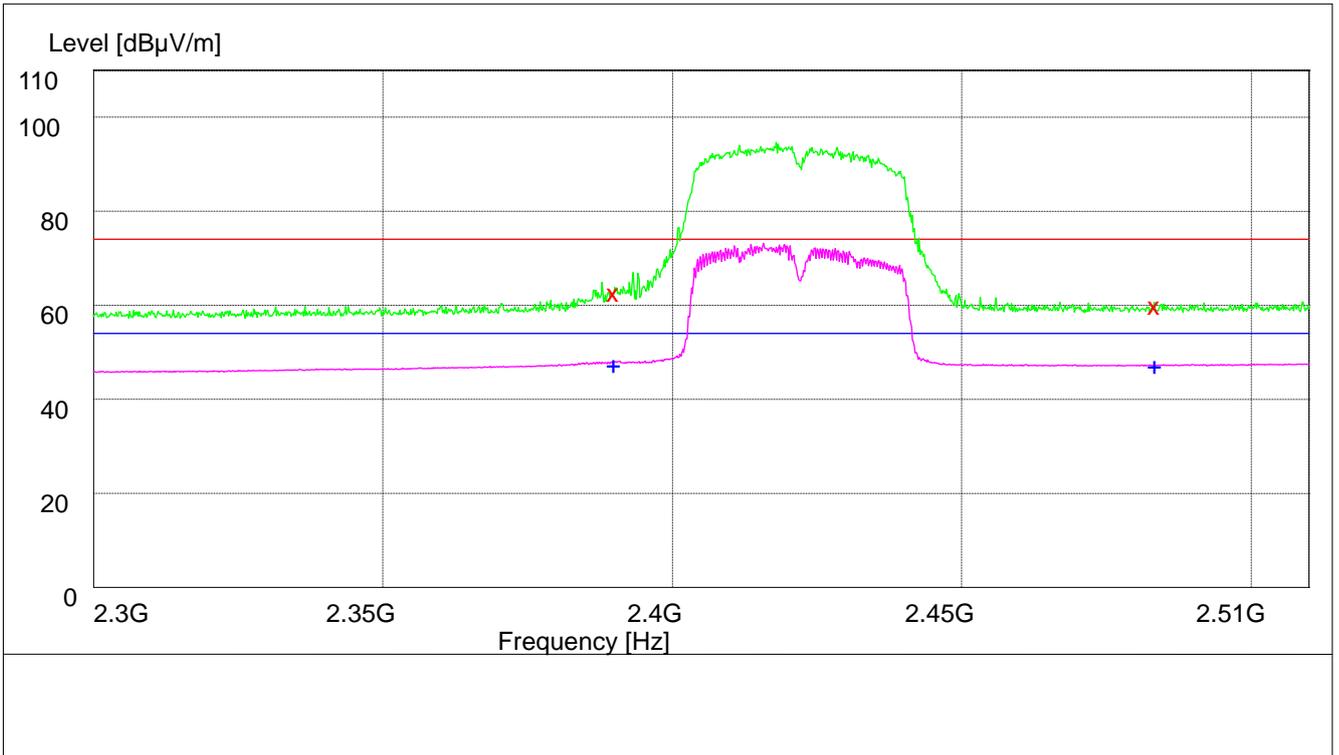
MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	46.90	34.8	54.0	7.1	101.0	136.00	VERTICAL
2483.500000	47.60	35.1	54.0	6.4	125.0	162.00	HORIZONTAL



Test Mode: 11n (40M)

Channel 03



Note: The peak exceeds the limit line is carrier frequency.

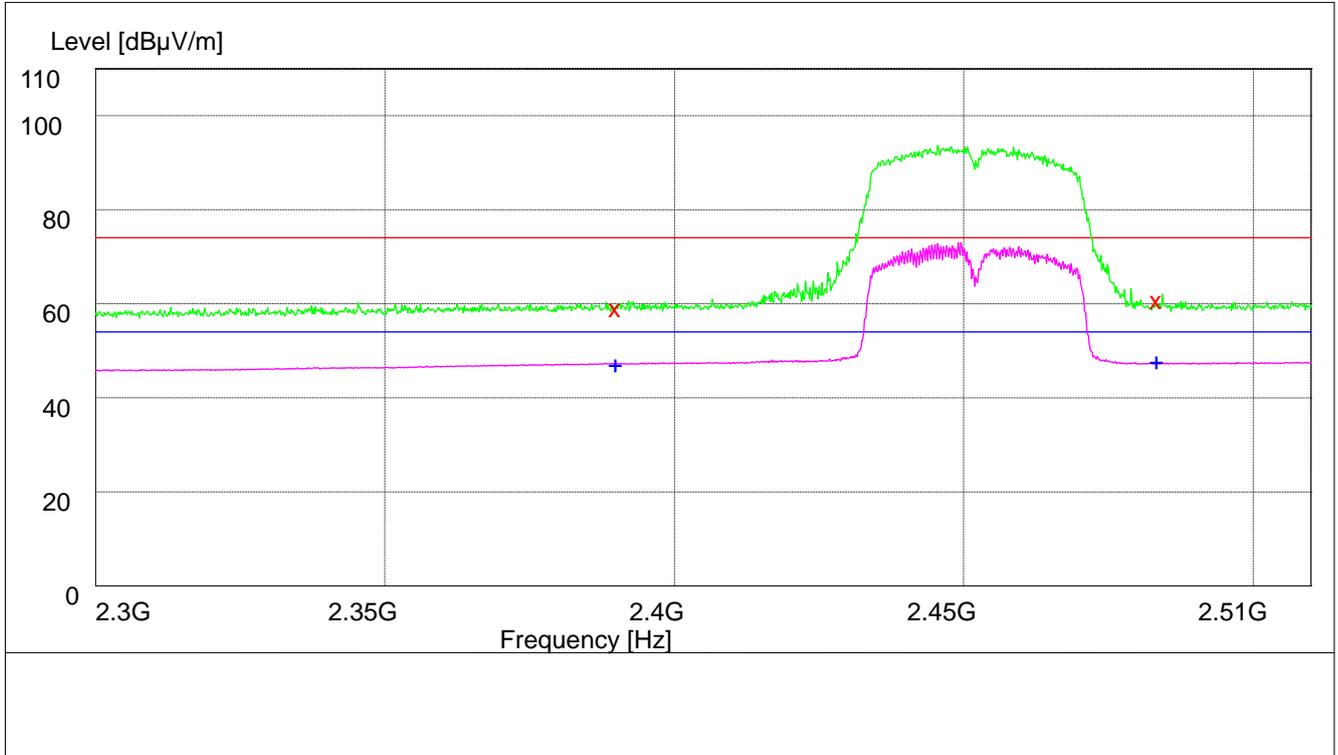
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	62.60	34.8	74.0	11.4	100.0	159.00	HORIZONTAL
2483.500000	59.80	35.1	74.0	14.2	144.0	110.00	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.40	34.8	54.0	6.6	100.0	159.00	HORIZONTAL
2483.500000	47.20	35.1	54.0	6.8	119.0	321.00	HORIZONTAL

Channel 07



Note: The peak exceeds the limit line is carrier frequency.

MEASUREMENT RESULT: PK Detector

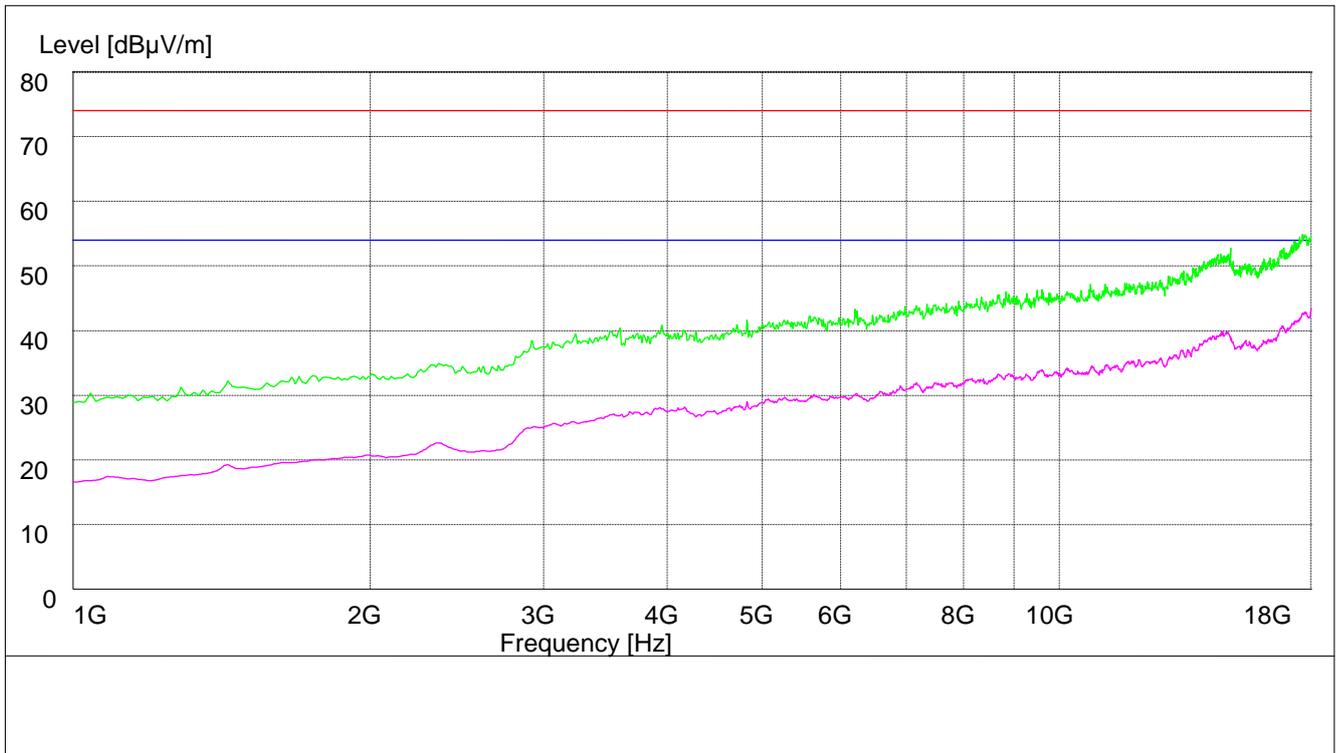
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	59.10	34.8	74.0	14.9	100.0	126.00	VERTICAL
2483.500000	60.70	35.1	74.0	13.3	131.0	226.00	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.20	34.8	54.0	6.8	124.0	81.00	HORIZONTAL
2483.500000	47.80	35.1	54.0	6.2	118.0	116.00	HORIZONTAL

Part 4: Testing Range of “1 GHz to 18 GHz”

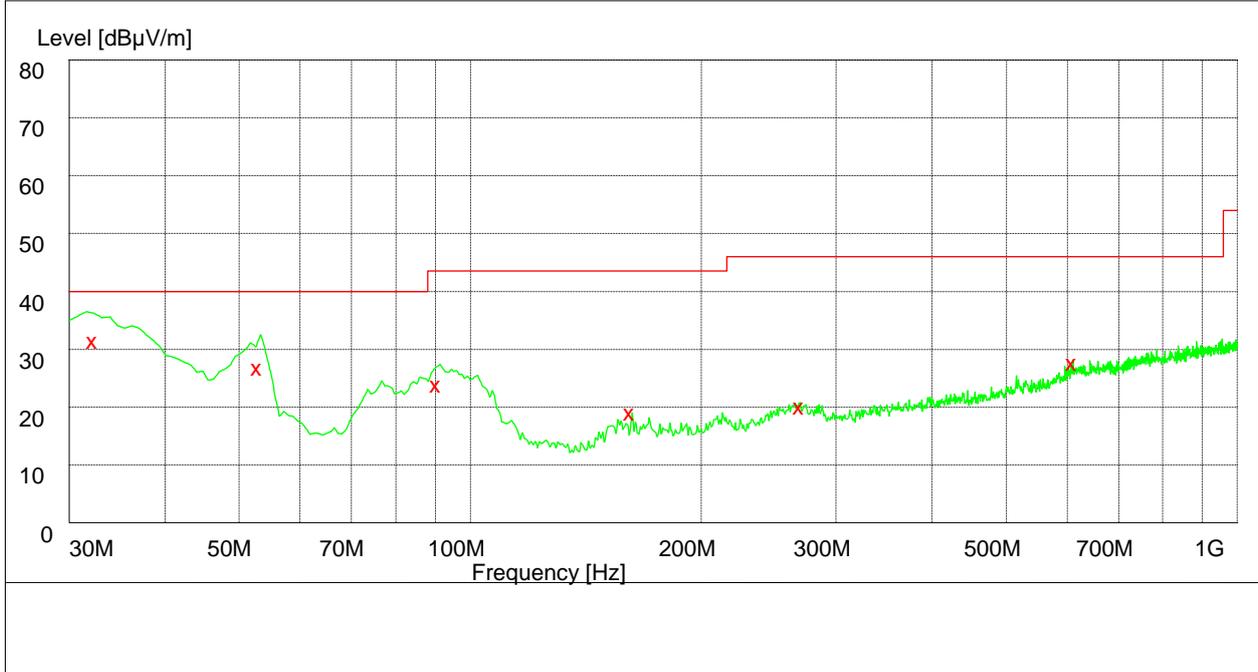
- Note 1: The test results and plot for testing range of “1 GHz to 18 GHz” showed as below is **the WORST case for all Test Modes and Channels**. This range will not be presented for each Test Mode and each Channel.
- Note 2: The testing range of “1 GHz to 18 GHz” is for checking radiated emissions located in restricted bands faraway from the EUT operating bands.
- Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dB μ V/m) and Average Limit (54 dB μ V/m).



Appendix G: Receiver Spurious Emissions

This test was carried out in all the test modes. Here only the worst test result was shown.

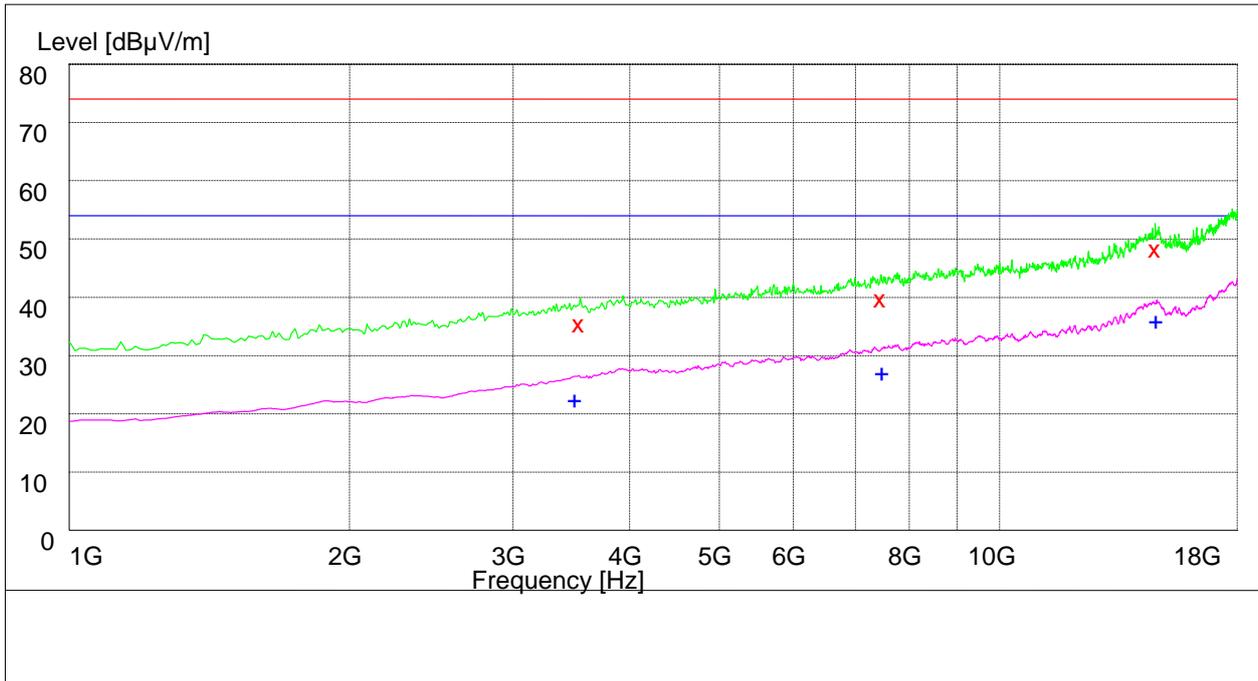
30MHz-1GHz



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
32.280000	33.40	14.7	40.0	6.6	100.0	82.00	VERTICAL
52.920000	28.80	14.8	40.0	11.2	100.0	278.00	VERTICAL
90.540000	25.70	12.1	43.5	17.8	100.0	115.00	VERTICAL
161.880000	20.90	10.2	43.5	22.6	100.0	0.00	VERTICAL
269.340000	22.00	14.3	46.0	24.0	100.0	359.00	HORIZONTAL
610.920000	29.50	21.7	46.0	16.5	100.0	356.00	HORIZONTAL

1GHz-18GHz



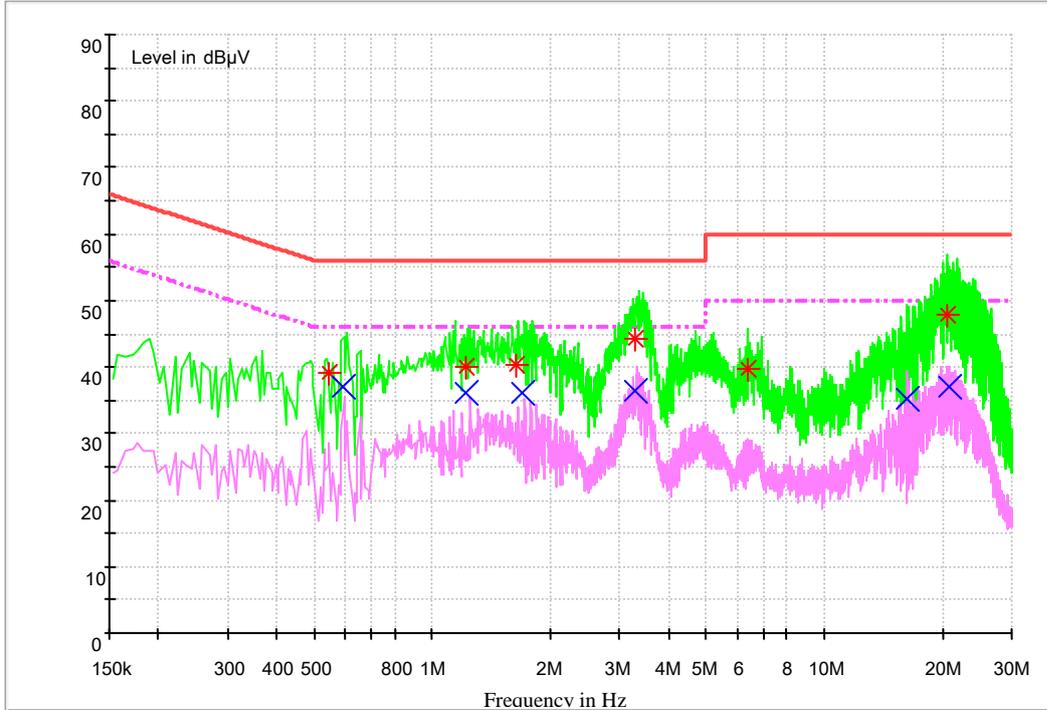
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
3537.700000	37.30	-5.1	74.0	36.7	123.0	184.00	VERTICAL
7455.000000	41.60	3.1	74.0	32.4	138.0	286.00	VERTICAL
14701.700000	50.20	16.5	74.0	23.8	100.0	51.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
3498.400000	24.40	-5.0	54.0	29.6	109.0	217.00	HORIZONTAL
7479.700000	29.00	3.2	54.0	25.0	136.0	135.00	HORIZONTAL
14742.100000	37.80	16.8	54.0	16.2	142.0	36.00	VERTICAL

Appendix H: AC Power Line Conducted Emissions



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.543619	39.1	9.7	56.0	16.9	L1	FLO
1.219212	40.0	9.7	56.0	16.0	N	FLO
1.638048	40.4	9.7	56.0	15.6	N	FLO
3.301207	44.2	9.7	56.0	11.8	N	FLO
6.388668	39.7	9.9	60.0	20.3	L1	FLO
20.499458	47.9	10.1	60.0	12.1	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.592282	37.2	9.7	46.0	8.8	N	FLO
1.223089	36.1	9.7	46.0	9.9	N	FLO
1.694362	36.0	9.7	46.0	10.0	N	FLO
3.276494	36.5	9.7	46.0	9.5	N	FLO
16.249286	35.3	10.1	50.0	14.7	N	FLO
20.738756	37.1	10.1	50.0	12.9	N	FLO

END