Appendix for Testreport

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.

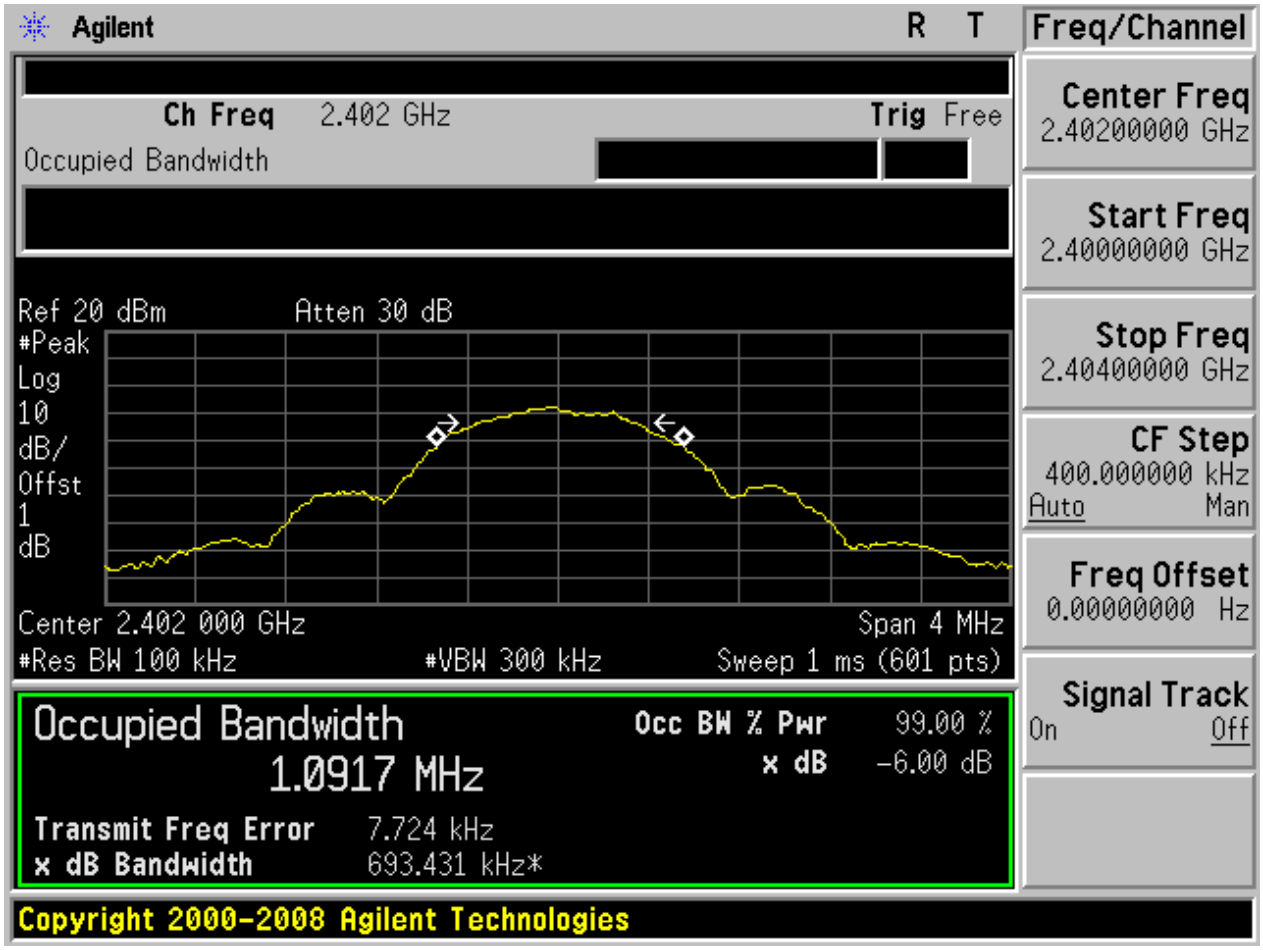
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

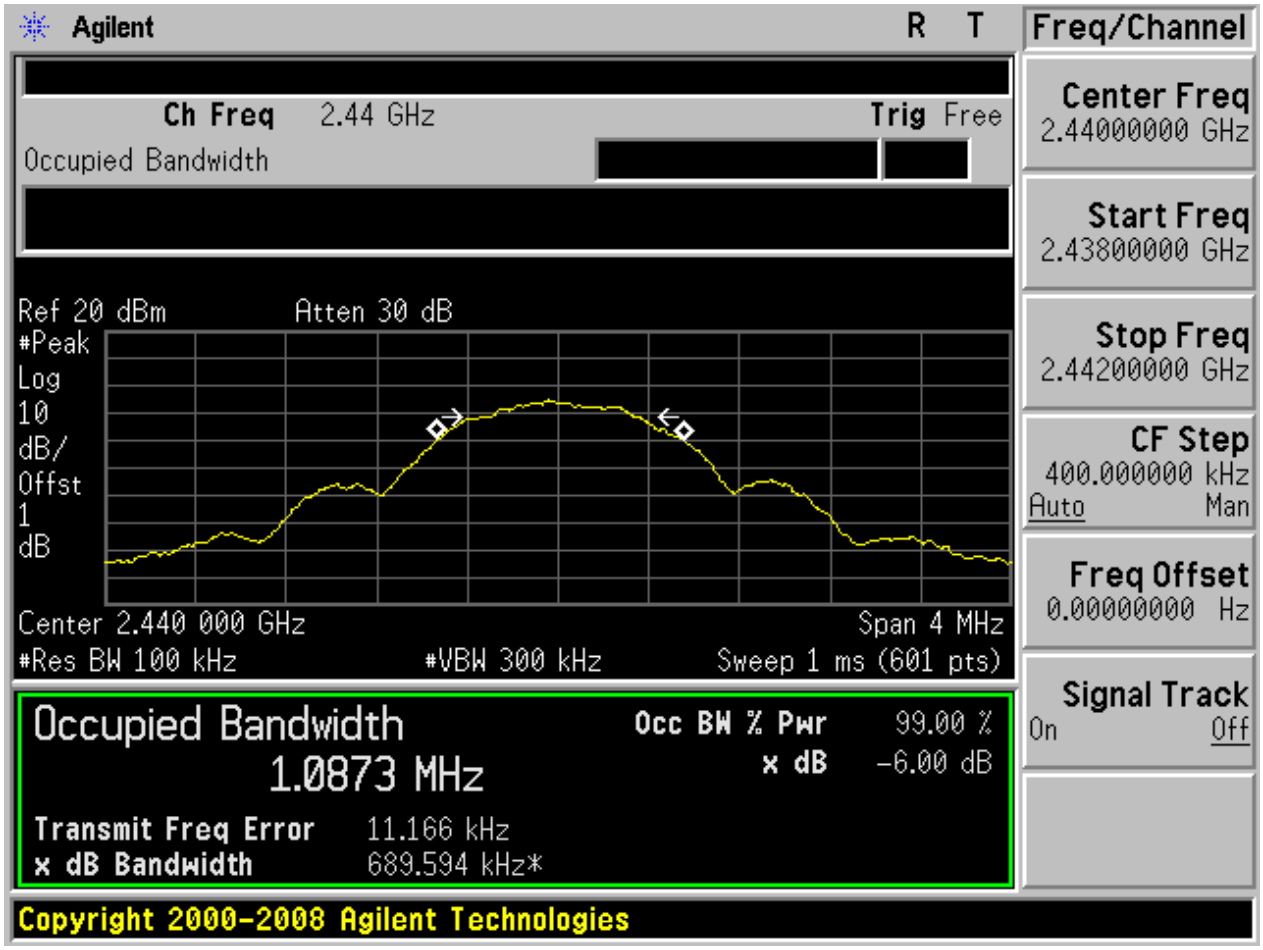
Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[KHz]	Verdict
TM1_DH5_Ch0	L	2402	693	pass
TM1_DH5_Ch19	M	2440	690	pass
TM1_DH5_Ch39	H	2480	710	pass

Part II - Test Plots

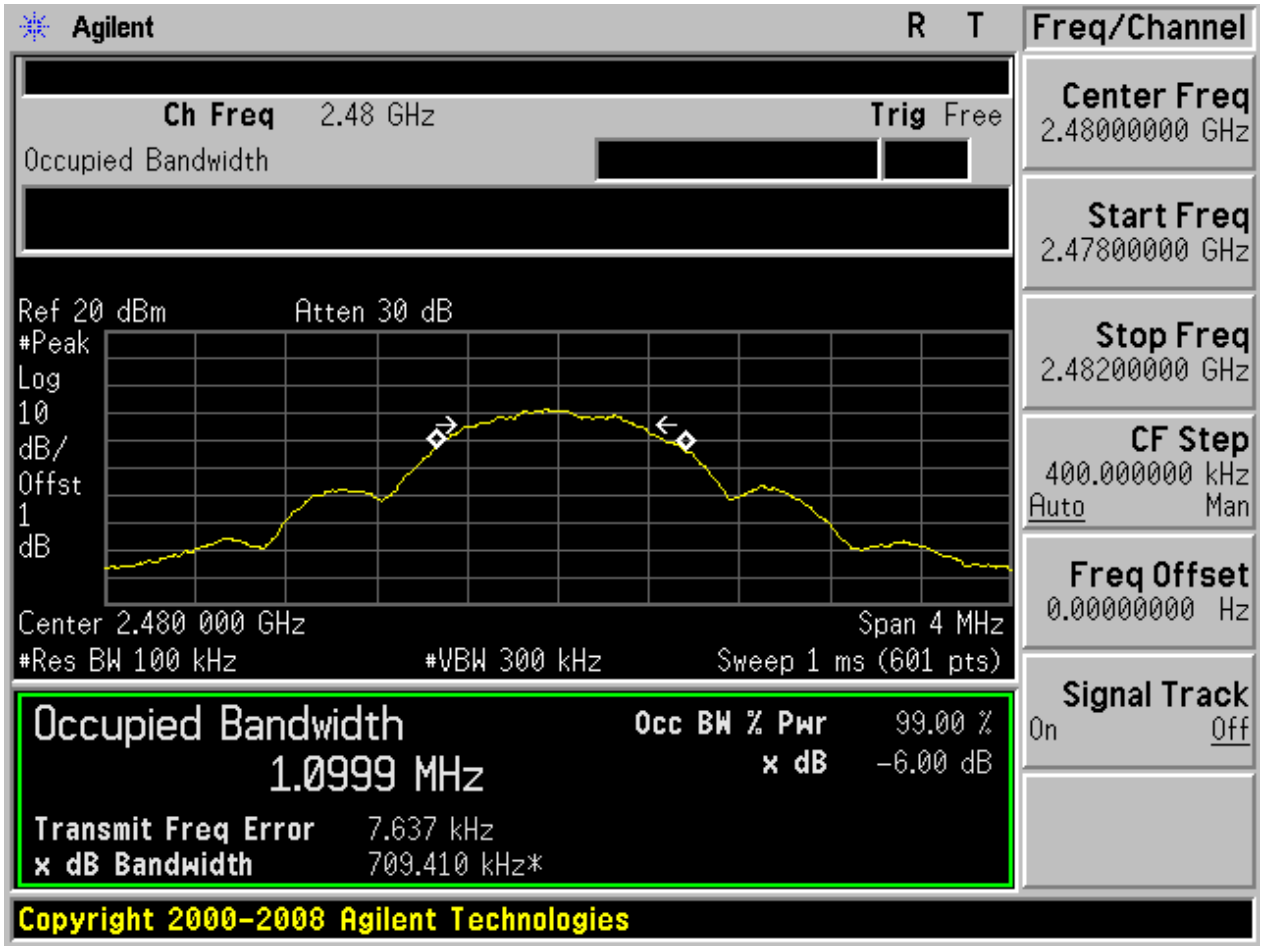
2.1 TM1_DH5_Ch0_L



2.2 TM1_DH5_Ch19_M



2.3 TM1_DH5_Ch39_H



Appendix B: Occupied Bandwidth

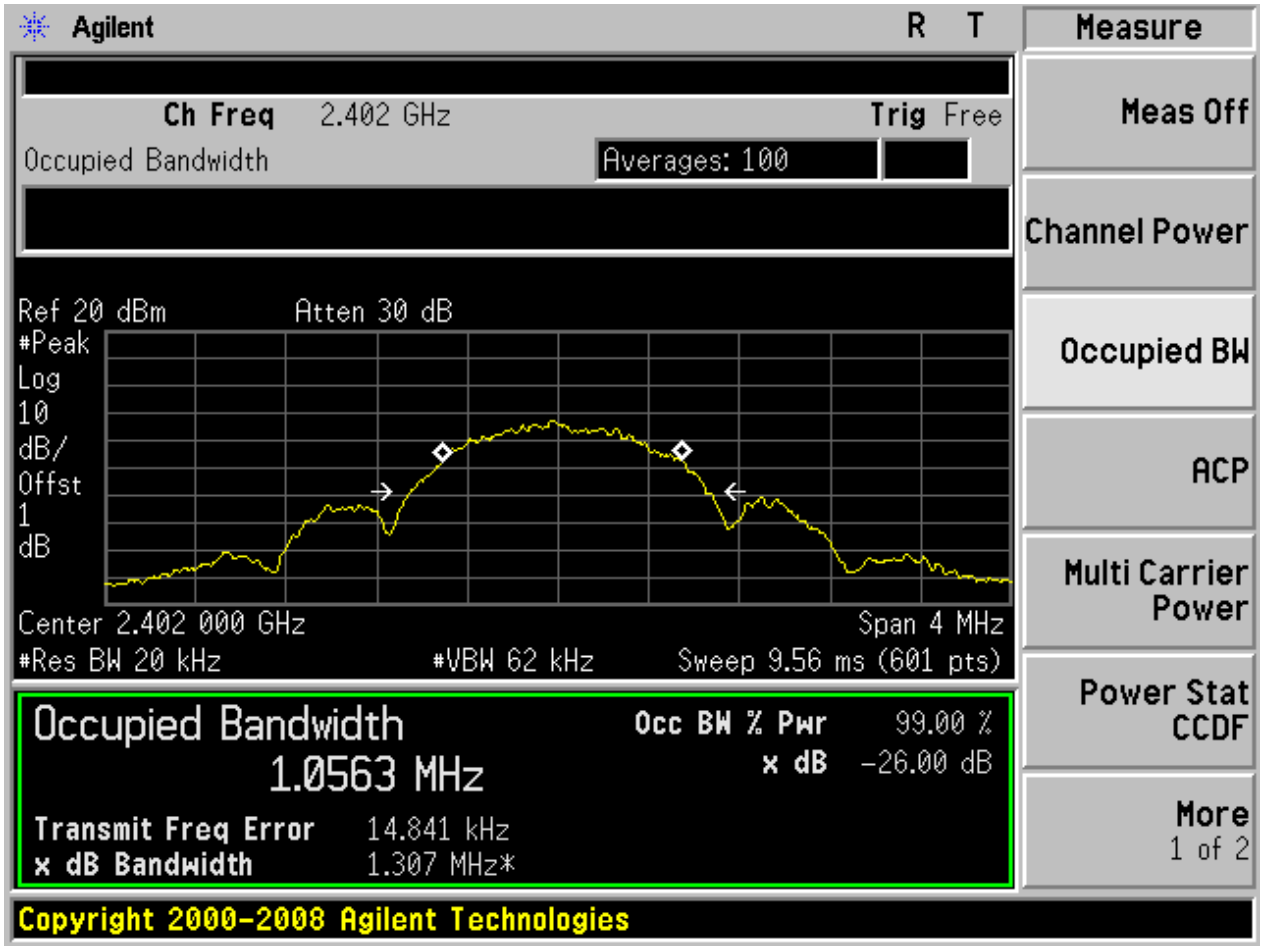
For measurements on smart antenna systems (devices with multiple transmit chains), the test is performed at each chain, and used as respective results for each chain.

Part I - Test Results

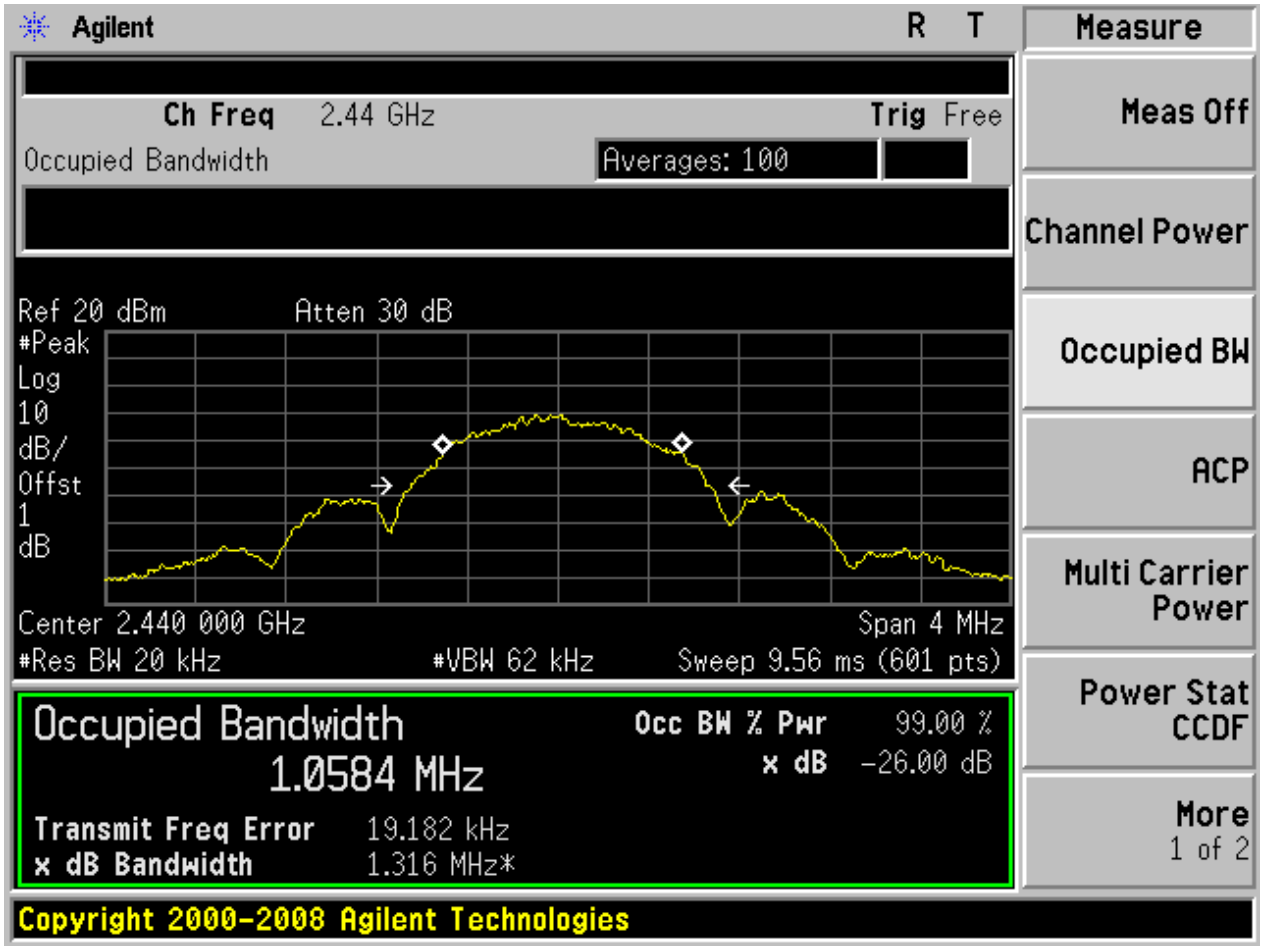
Test Mode	Test Channel	Frequency[MHz]	Occupied Bandwidth [MHz]	Verdict
TM1_DH5_Ch0	L	2402	1.06	pass
TM1_DH5_Ch19	M	2440	1.06	pass
TM1_DH5_Ch39	H	2480	1.06	pass

Part II - Test Plots

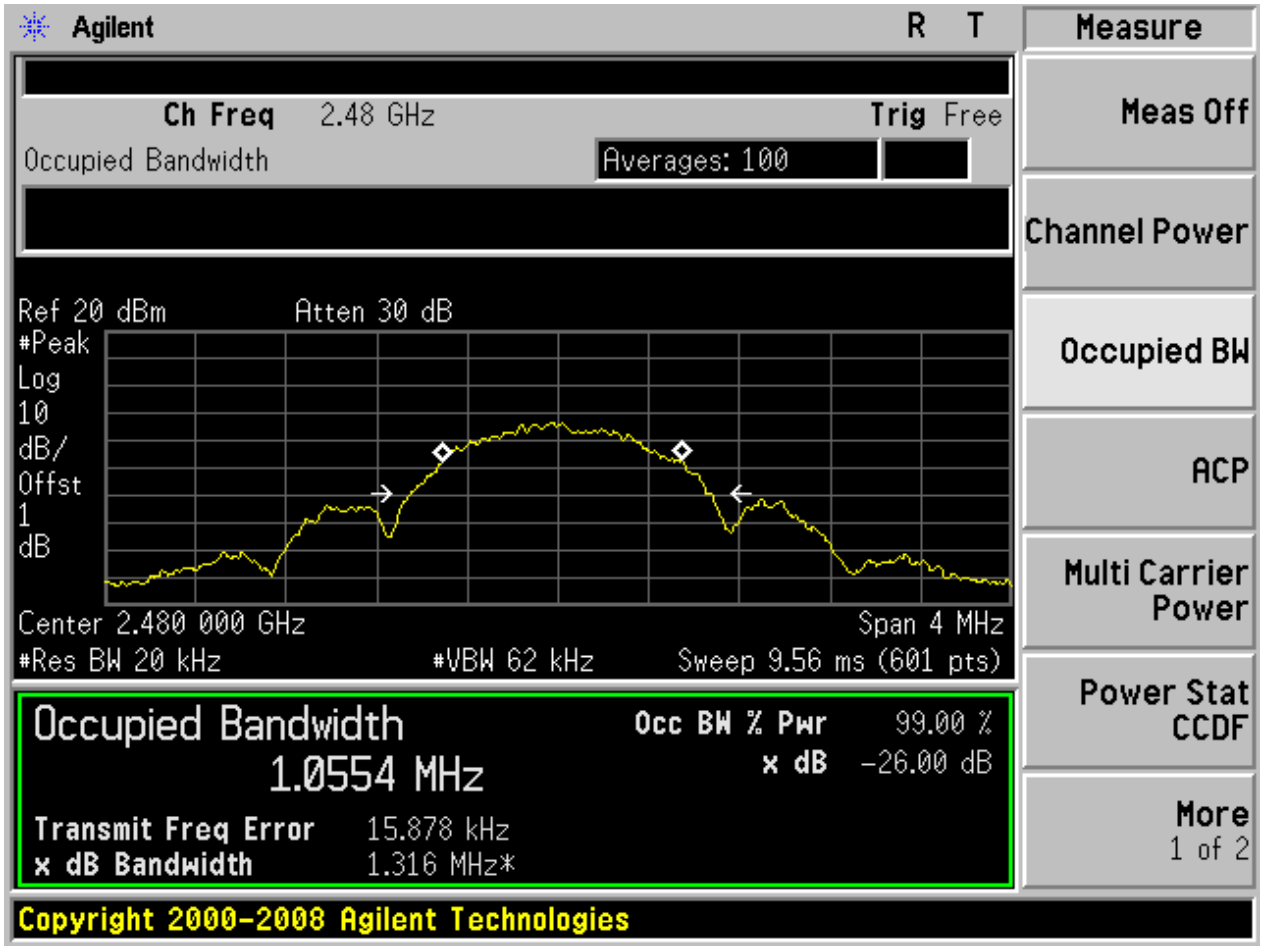
2.1 TM1_DH5_Ch0_L



2.1 TM1_DH5_Ch19_M



2.1 TM1_DH5_Ch39_H



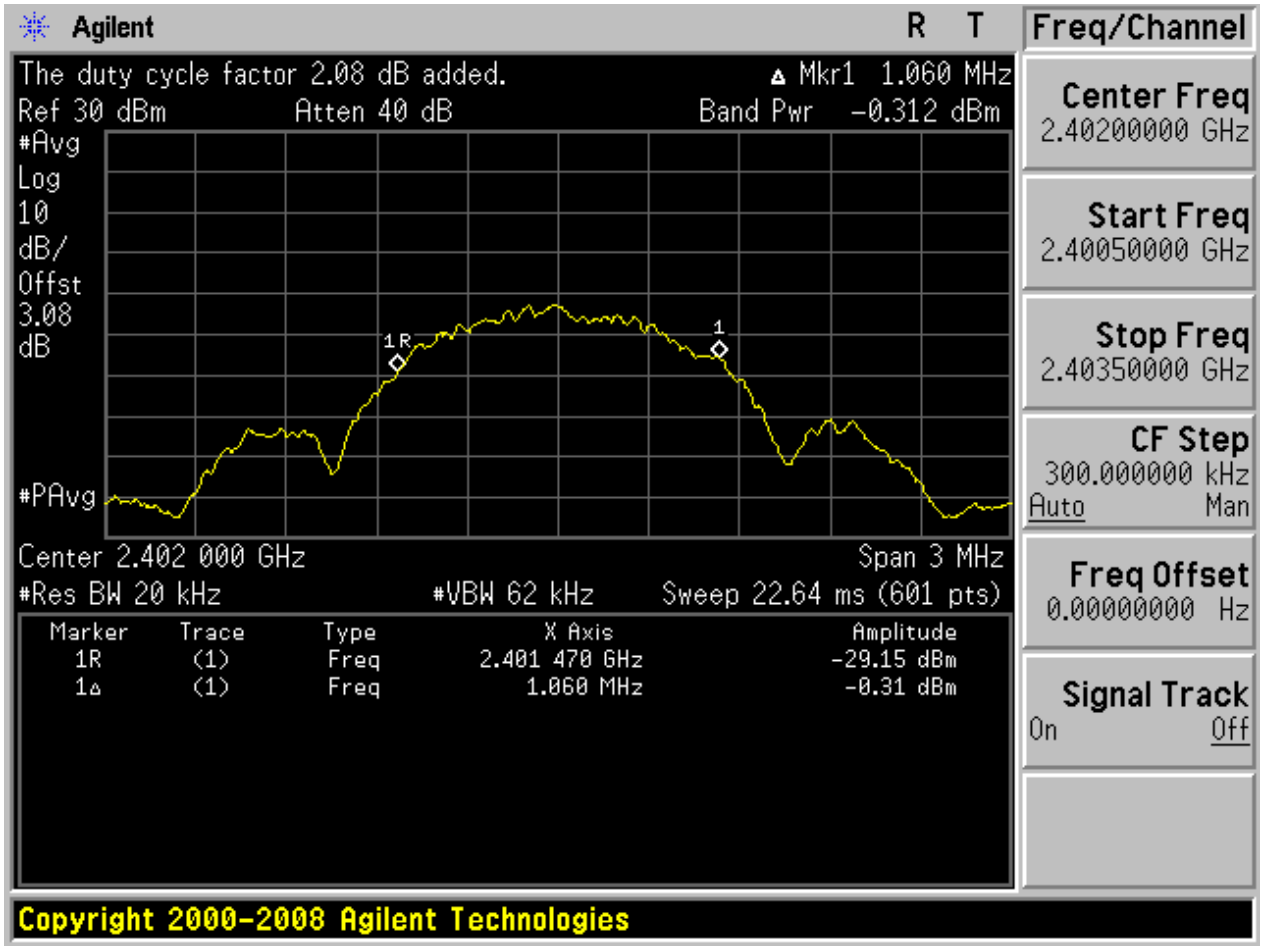
Appendix C: Maximum Conducted Average Output Power

Part I - Test Results

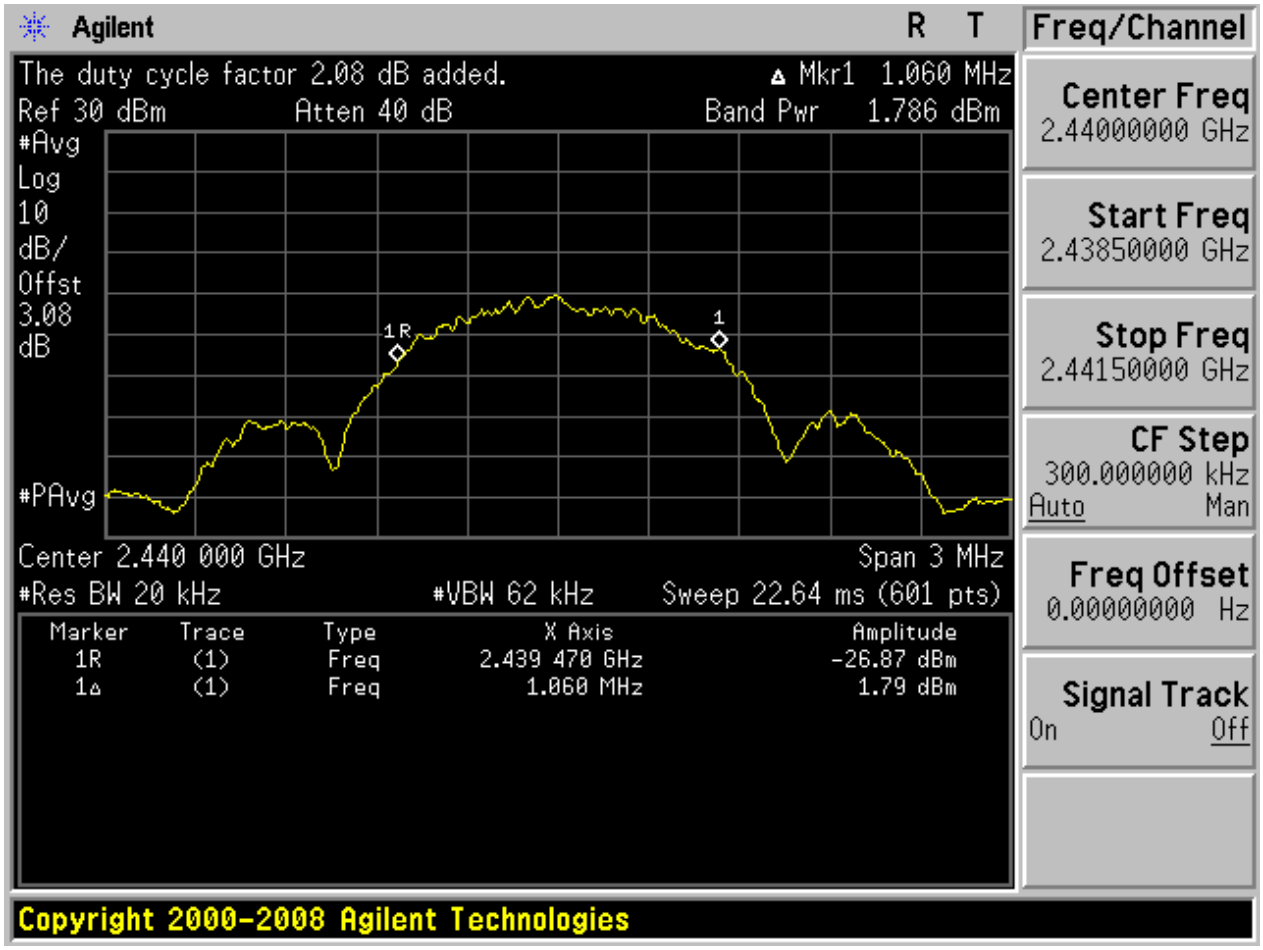
Test Mode	Test Channel	Frequency[MHz]	Power[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-0.31	pass
TM1_DH5_Ch19	M	2440	1.79	pass
TM1_DH5_Ch39	H	2480	-0.69	pass

Part II - Test Plots

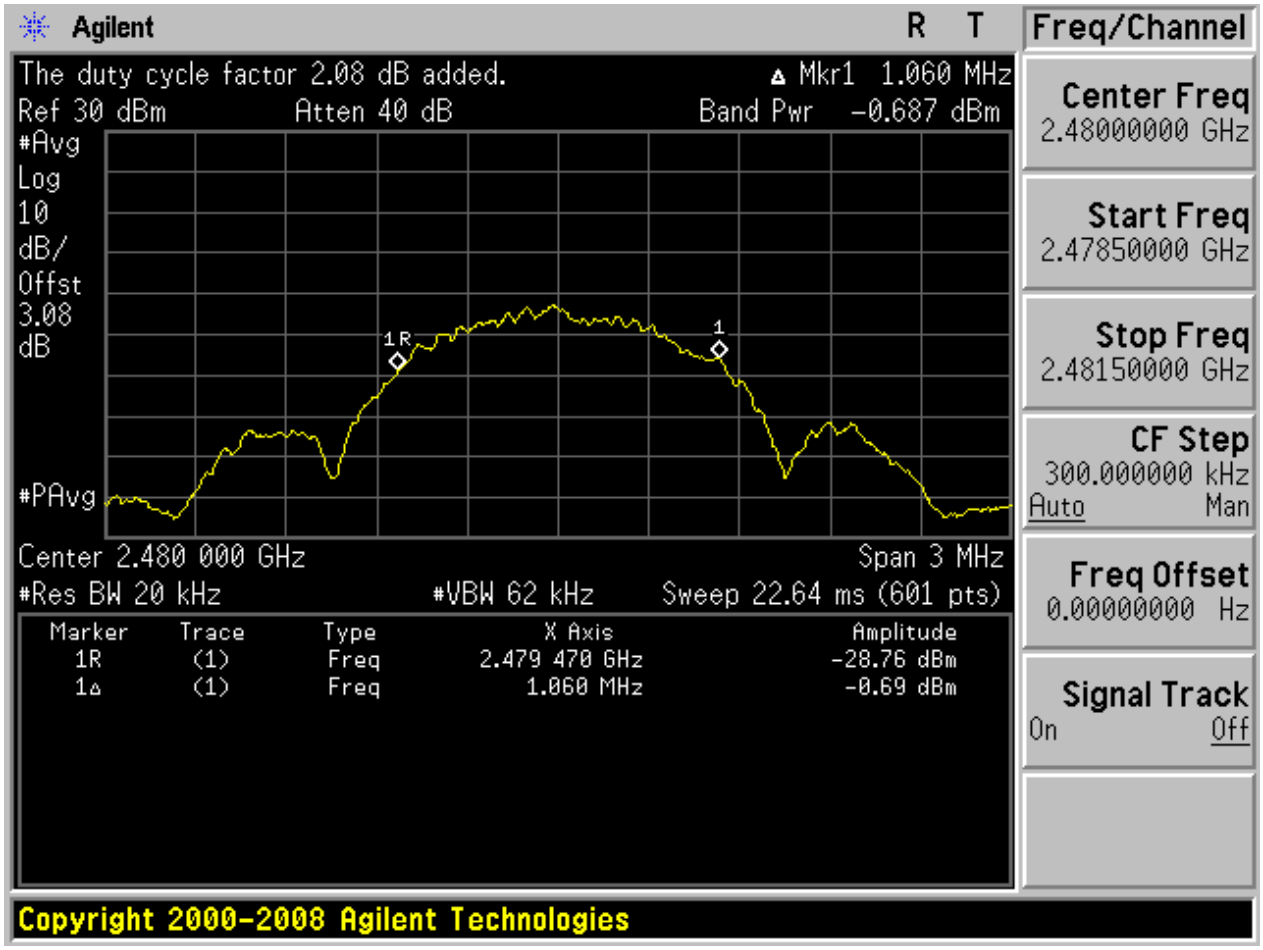
2.1 TM1_DH5_Ch0_L



2.2 TM1_DH5_Ch19_M



2.3 TM1_DH5_Ch39_H



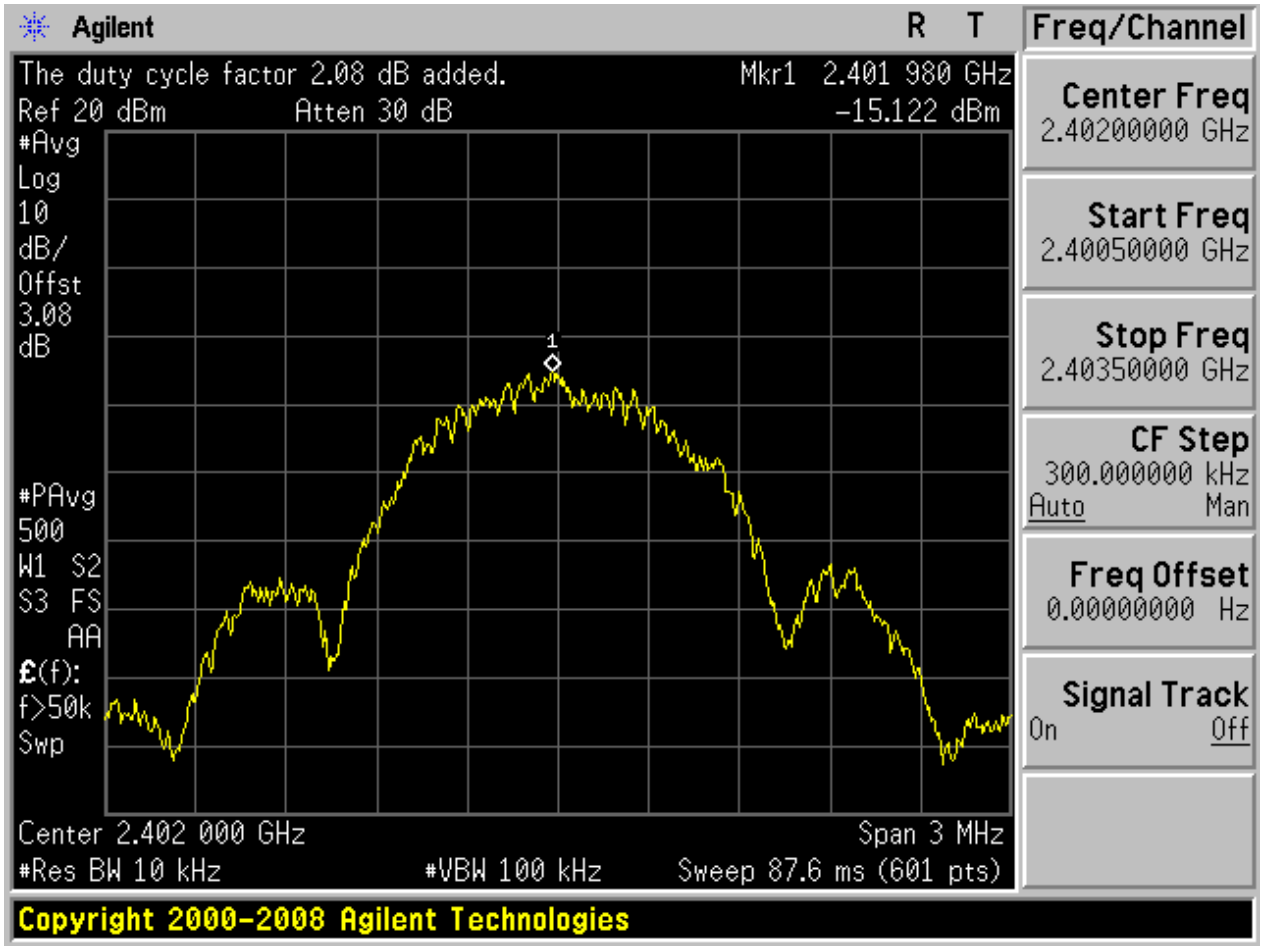
Appendix D: Maximum Power Spectral Density Level

Part I - Test Results

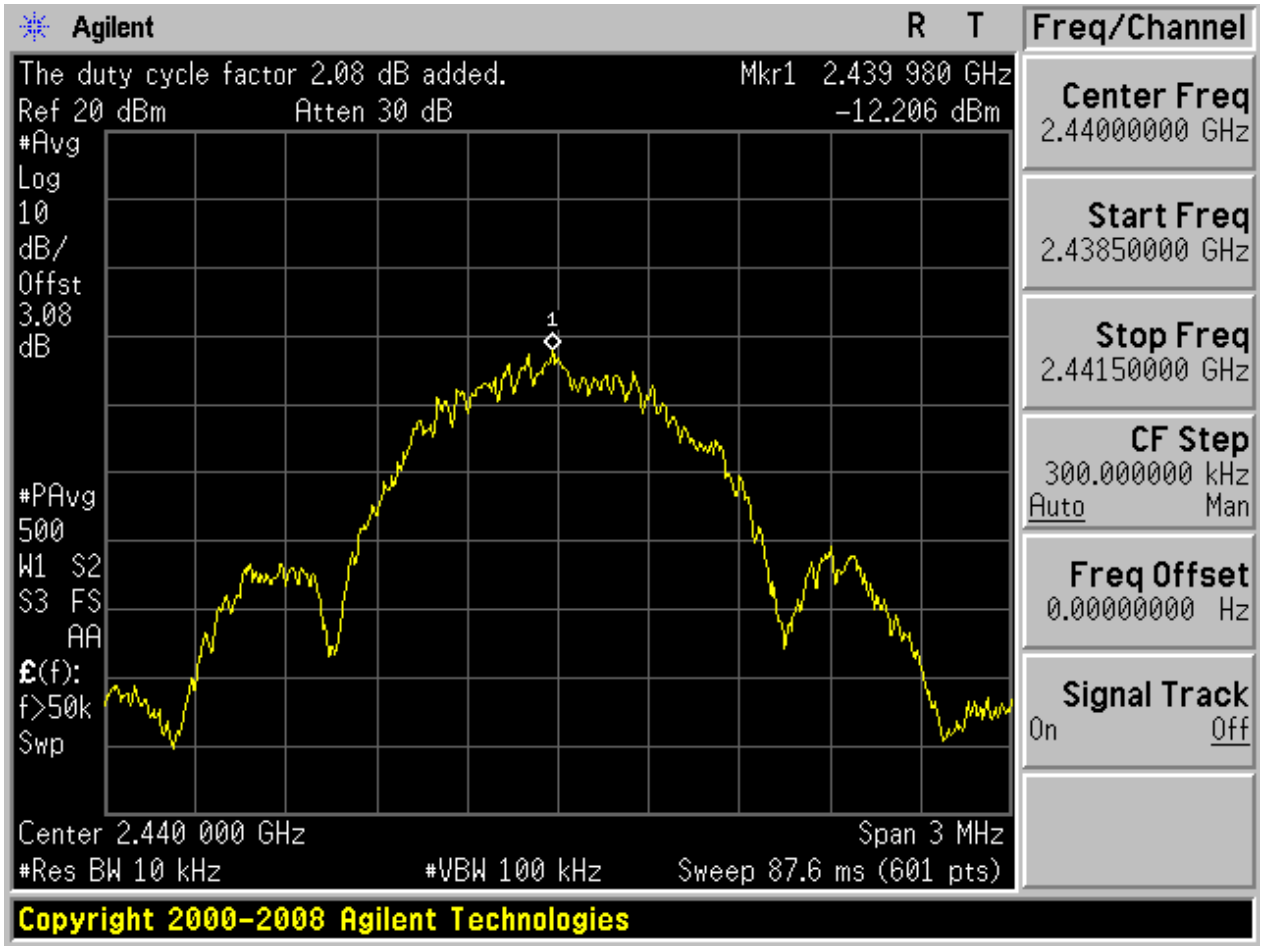
Test Mode	Test Channel	Frequency[MHz]	PD[MHz]	Verdict
TM1_DH5_Ch0	L	2402	-15.12	pass
TM1_DH5_Ch19	M	2440	-12.21	pass
TM1_DH5_Ch39	H	2480	-14.98	pass

Part II - Test Plots

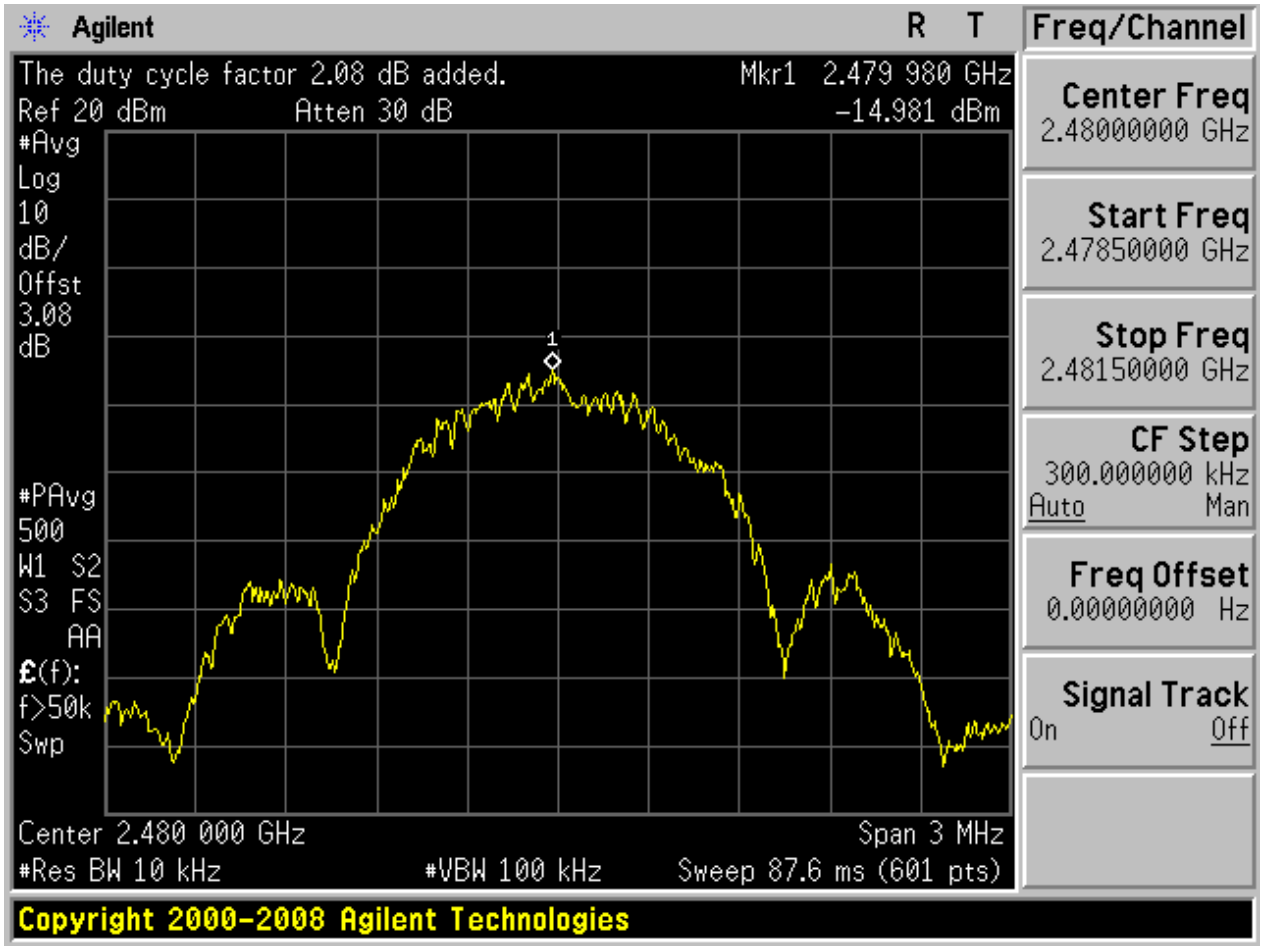
2.1 TM1_DH5_Ch0_L



2.2 TM1_DH5_Ch19_M



2.3 TM1_DH5_Ch39_H



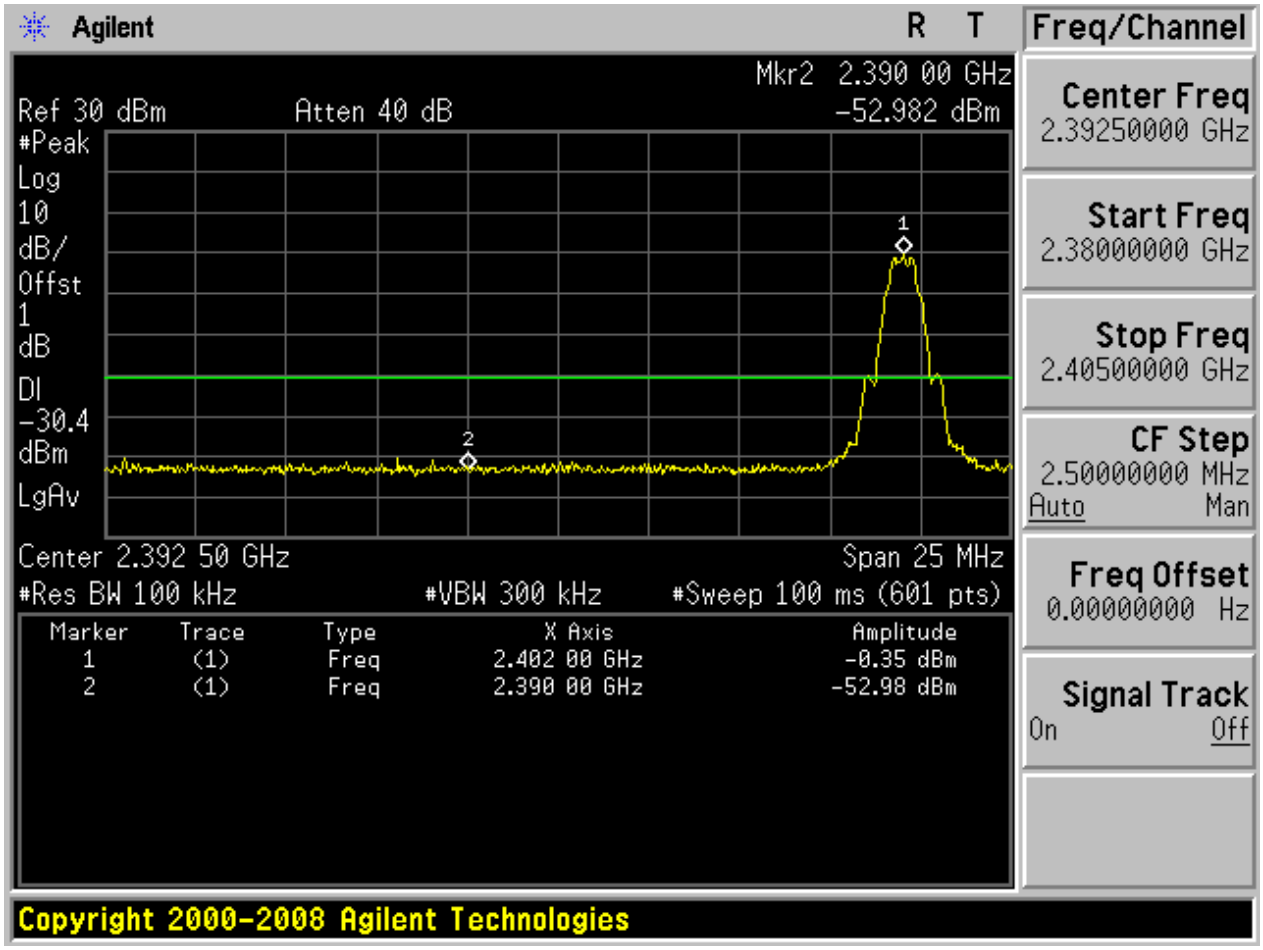
Appendix E: Band Edges Compliance

Part I - Test Results

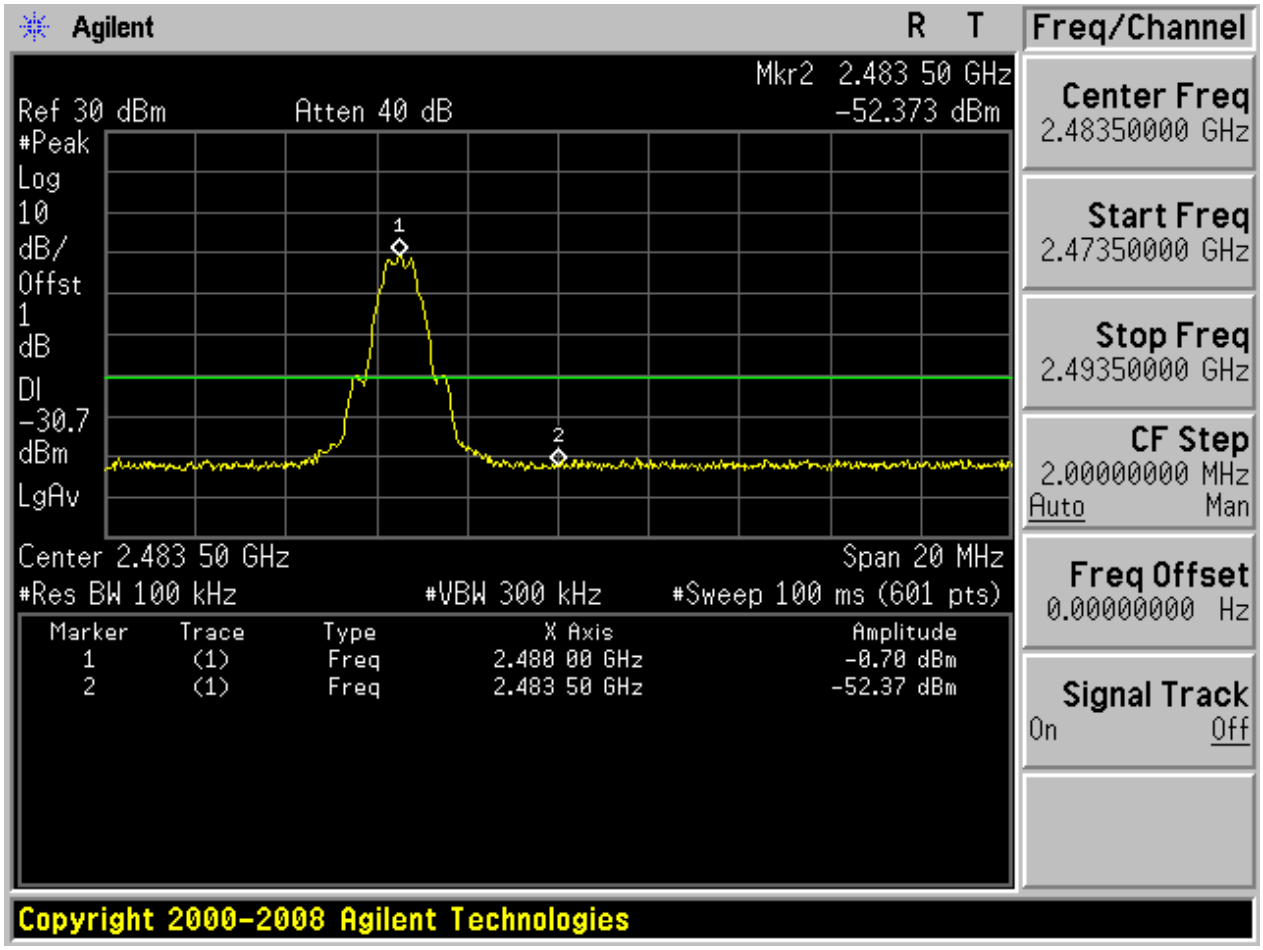
Test Mode	Test Channel	Frequency[MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-0.35	-52.98	pass
TM1_DH5_Ch39	H	2480	-0.70	-52.37	pass

Part II - Test Plots

2.1 TM1_DH5_Ch0_L



2.2 TM1_DH5_Ch39_H



Appendix F: 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" referrers 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 x lg(100 [kHz]/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]-30[dBm],see test plots for detailed".

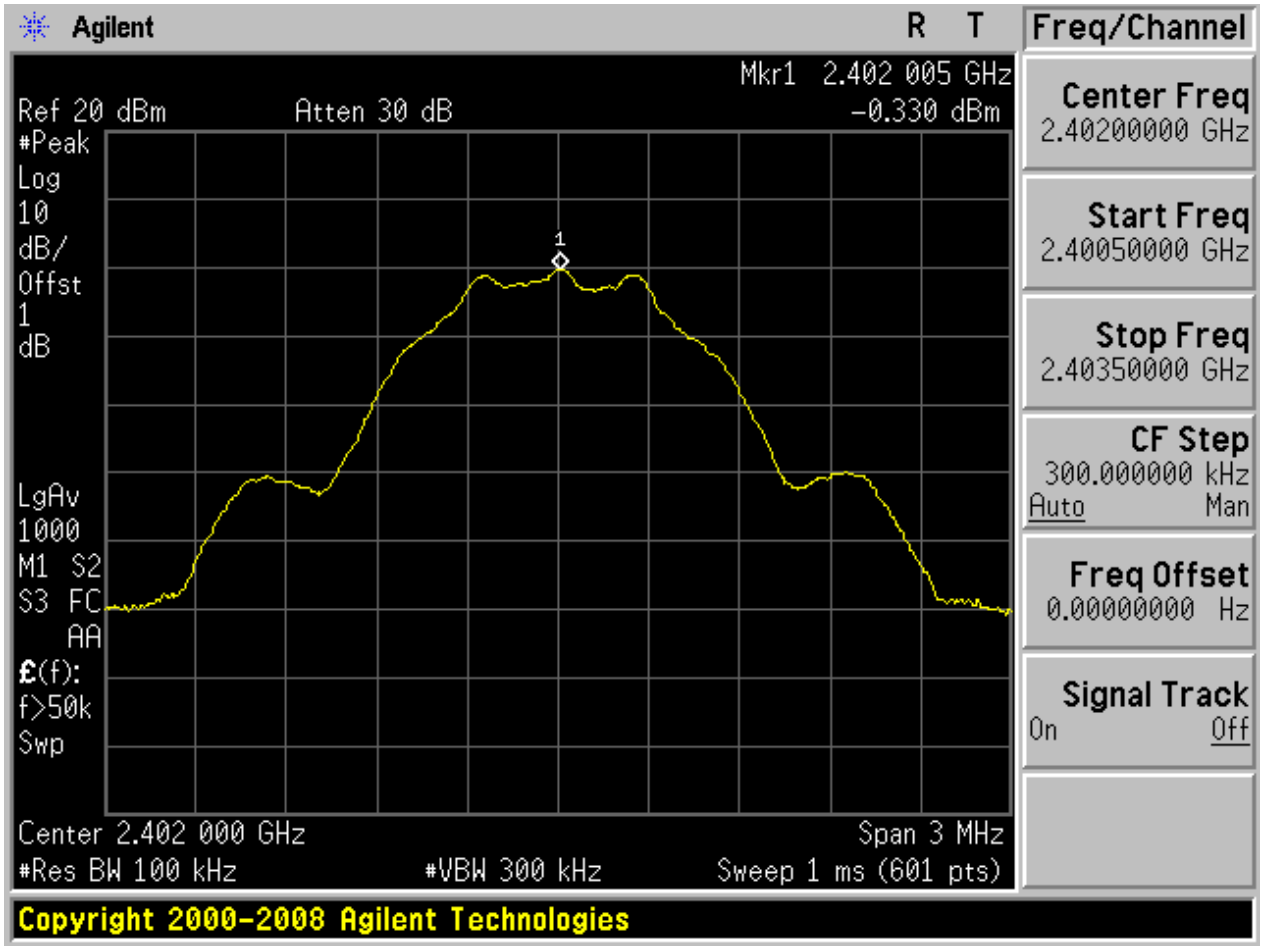
Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Ant	Pref[dBm]	Puw[dBm]	Verdict
11B	L	2402	Ant 1	-0.33	<limit	pass
11B	M	2440	Ant 1	2.12	<limit	pass
11B	H	2480	Ant 1	-0.66	<limit	pass

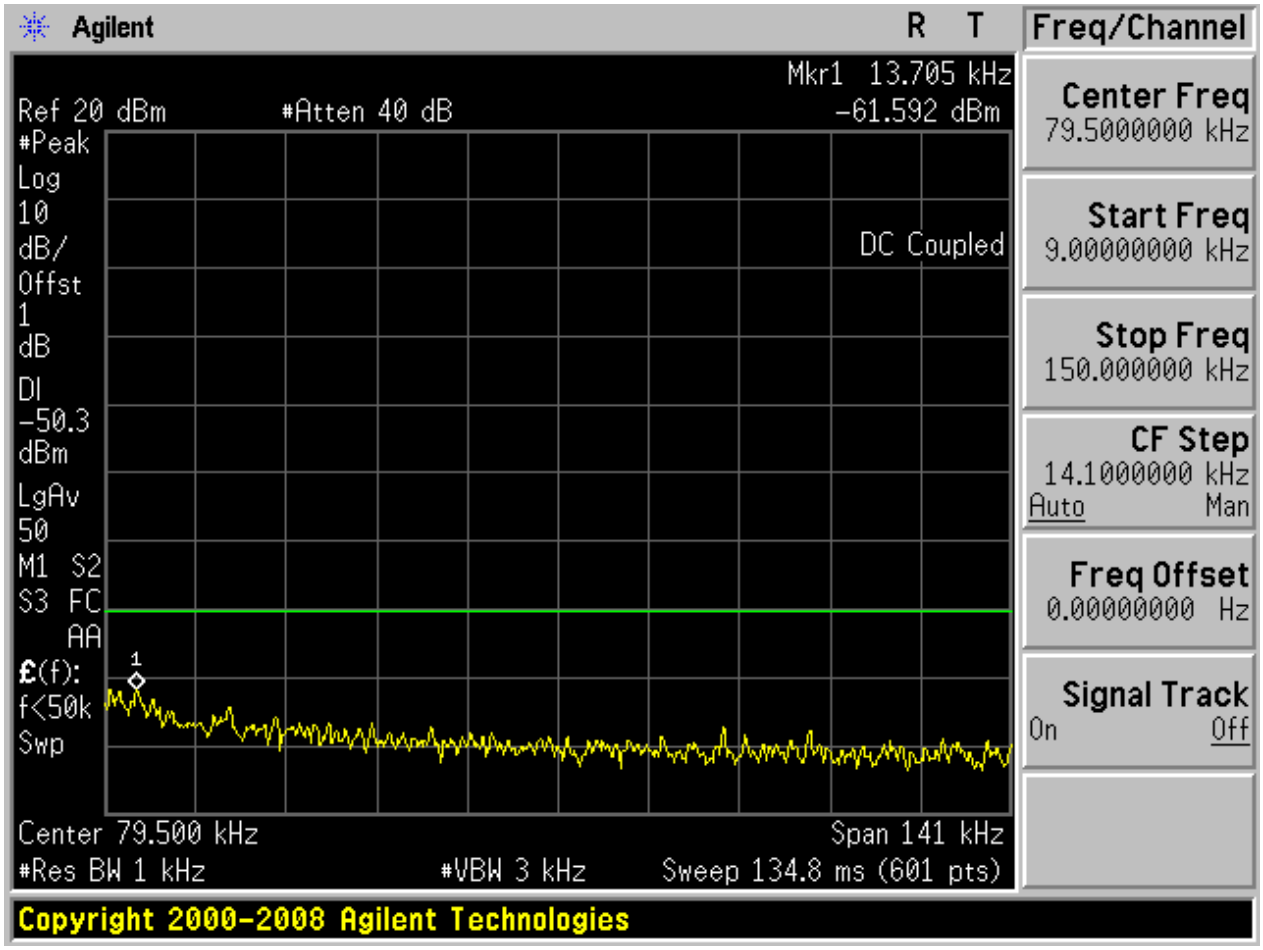
Part II - Test Plots

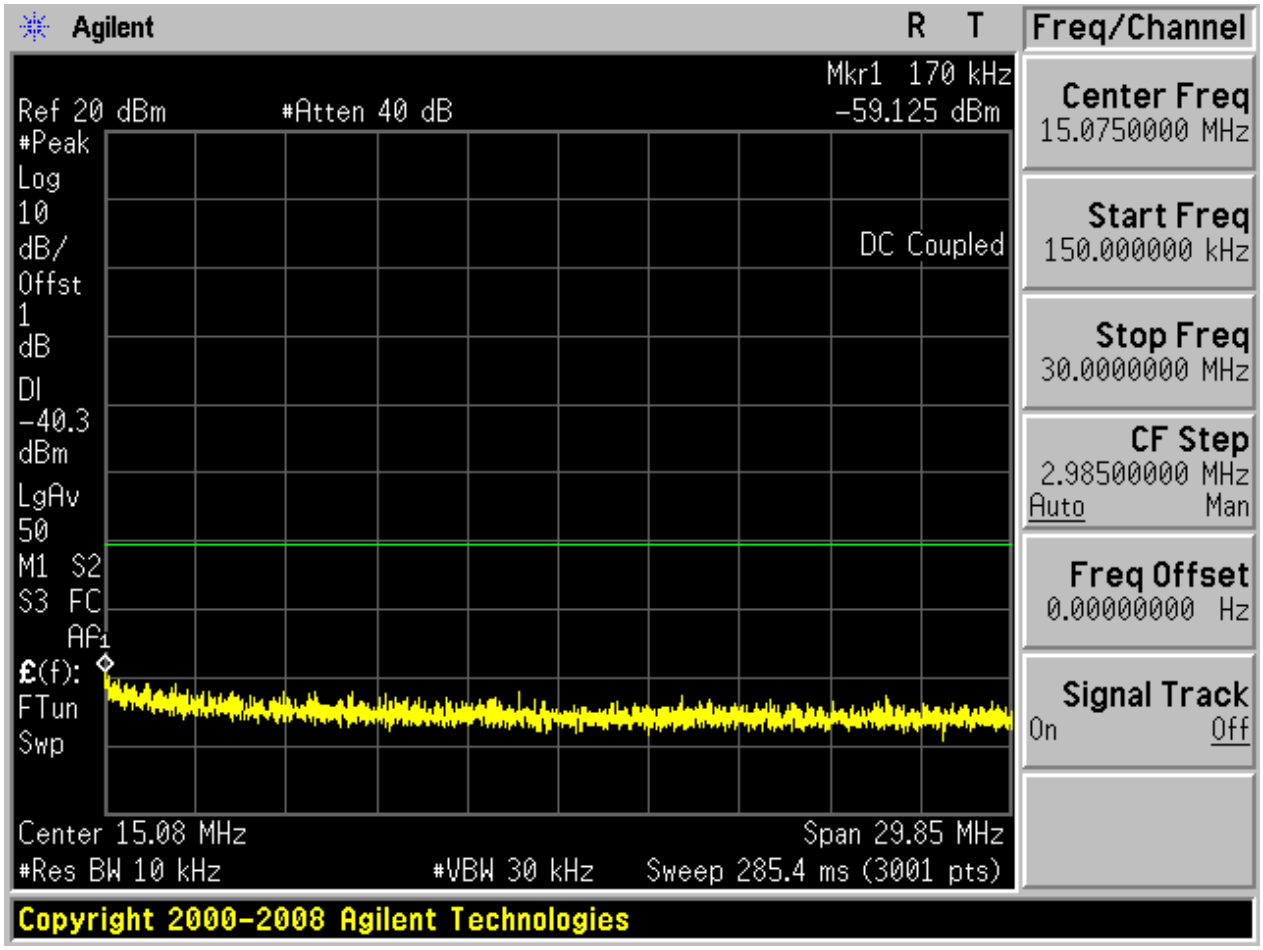
2.1 TM1_DH5_Ch0_L

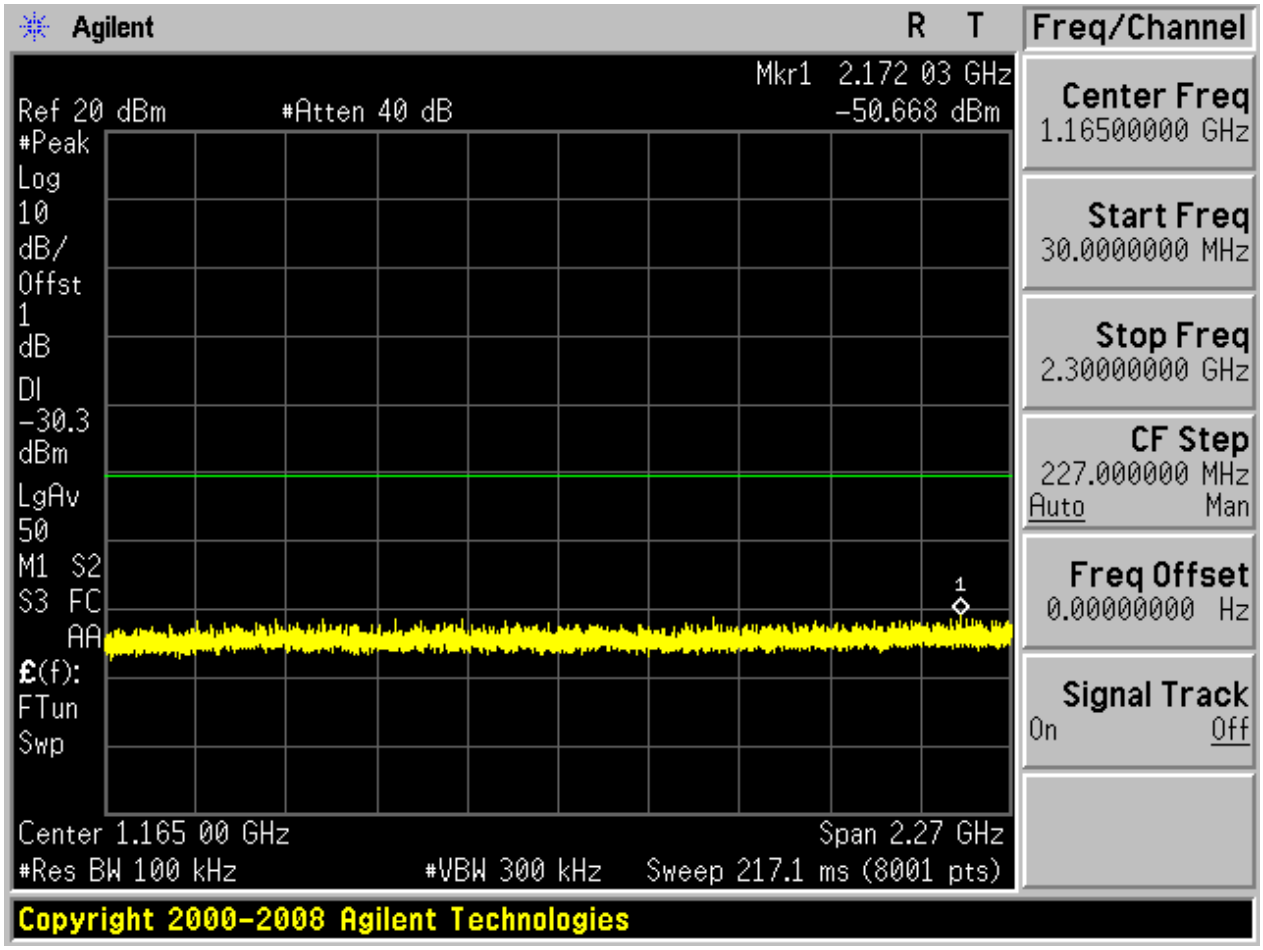
Pref:

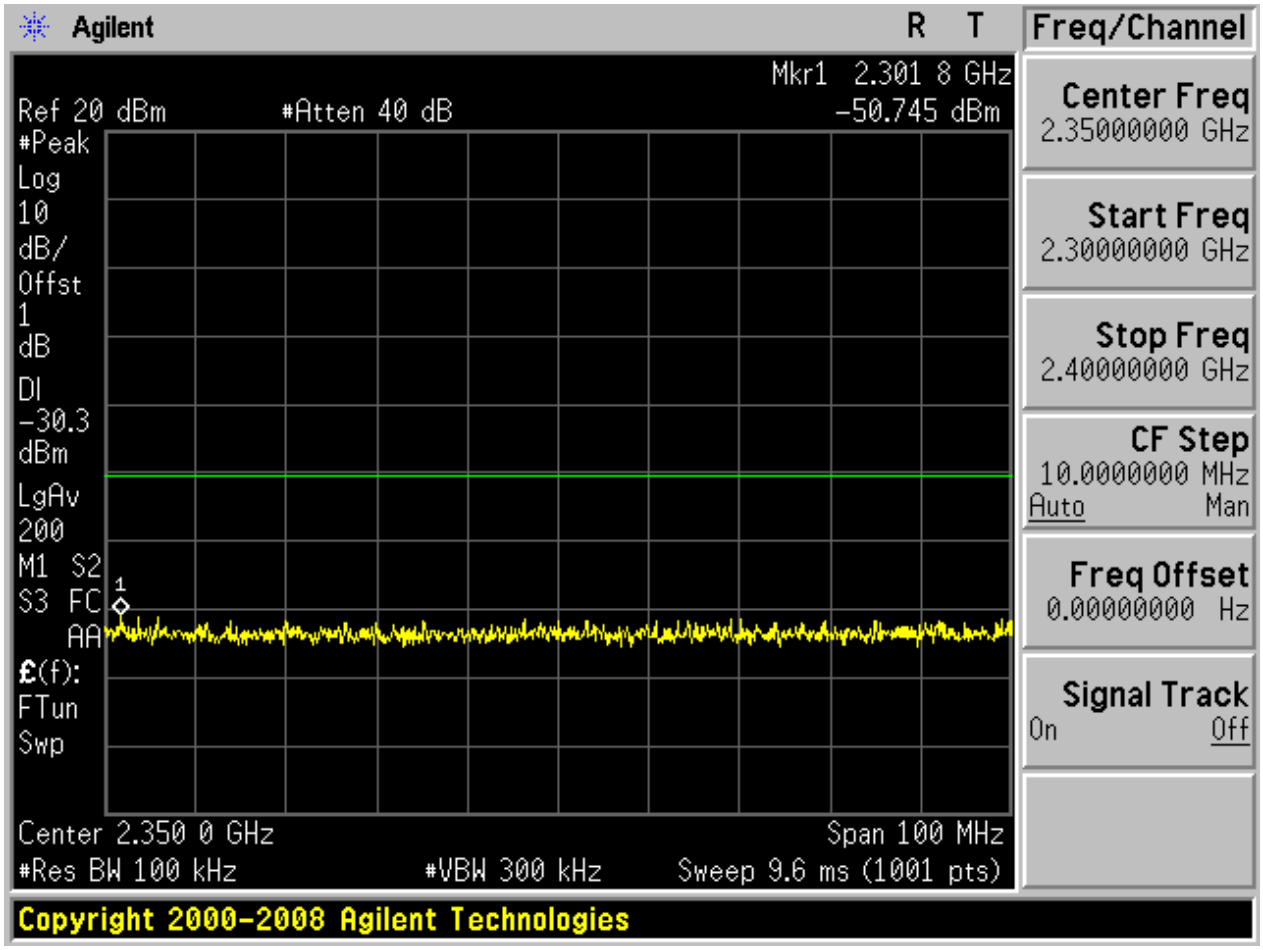


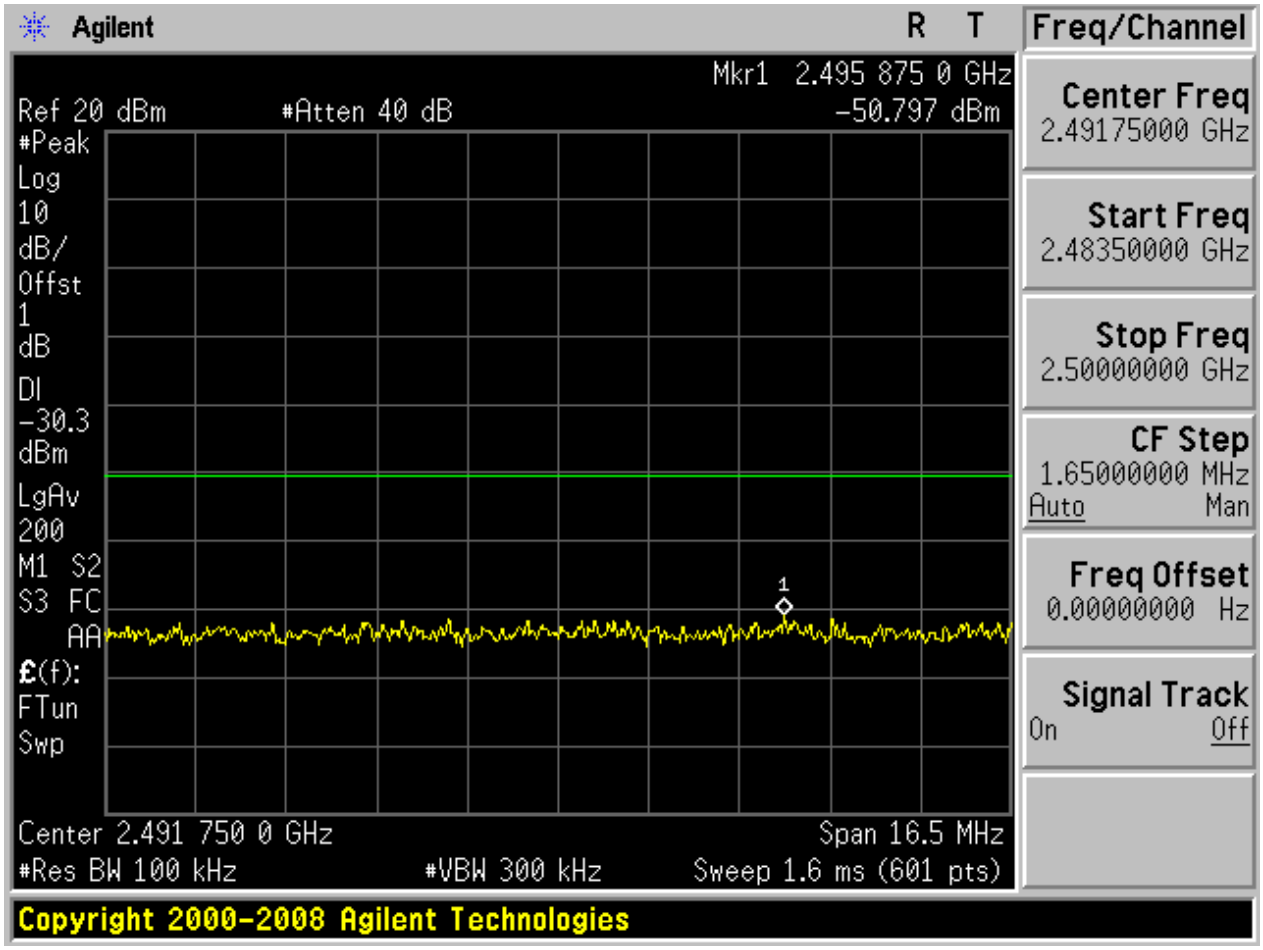
Puw:

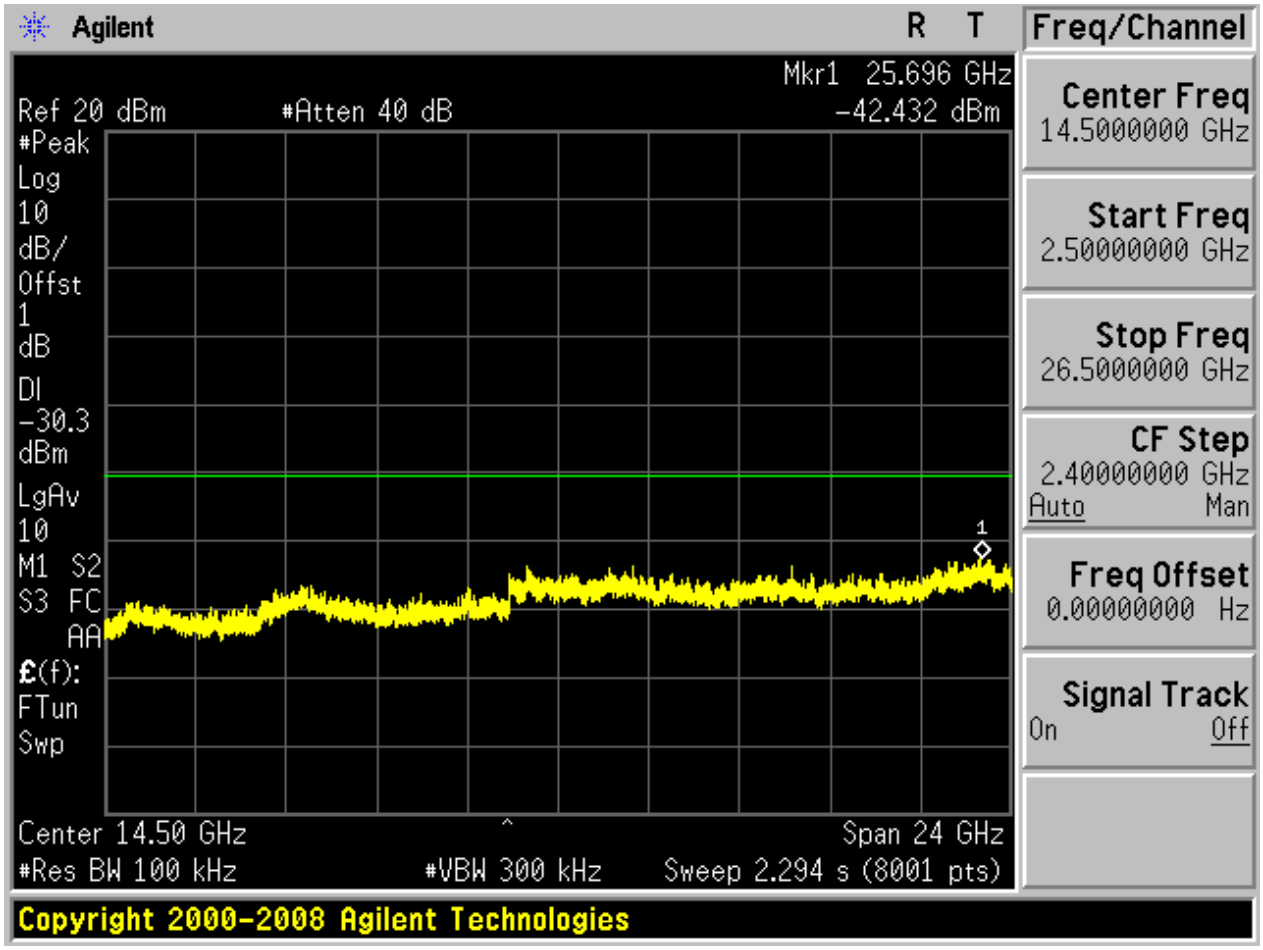






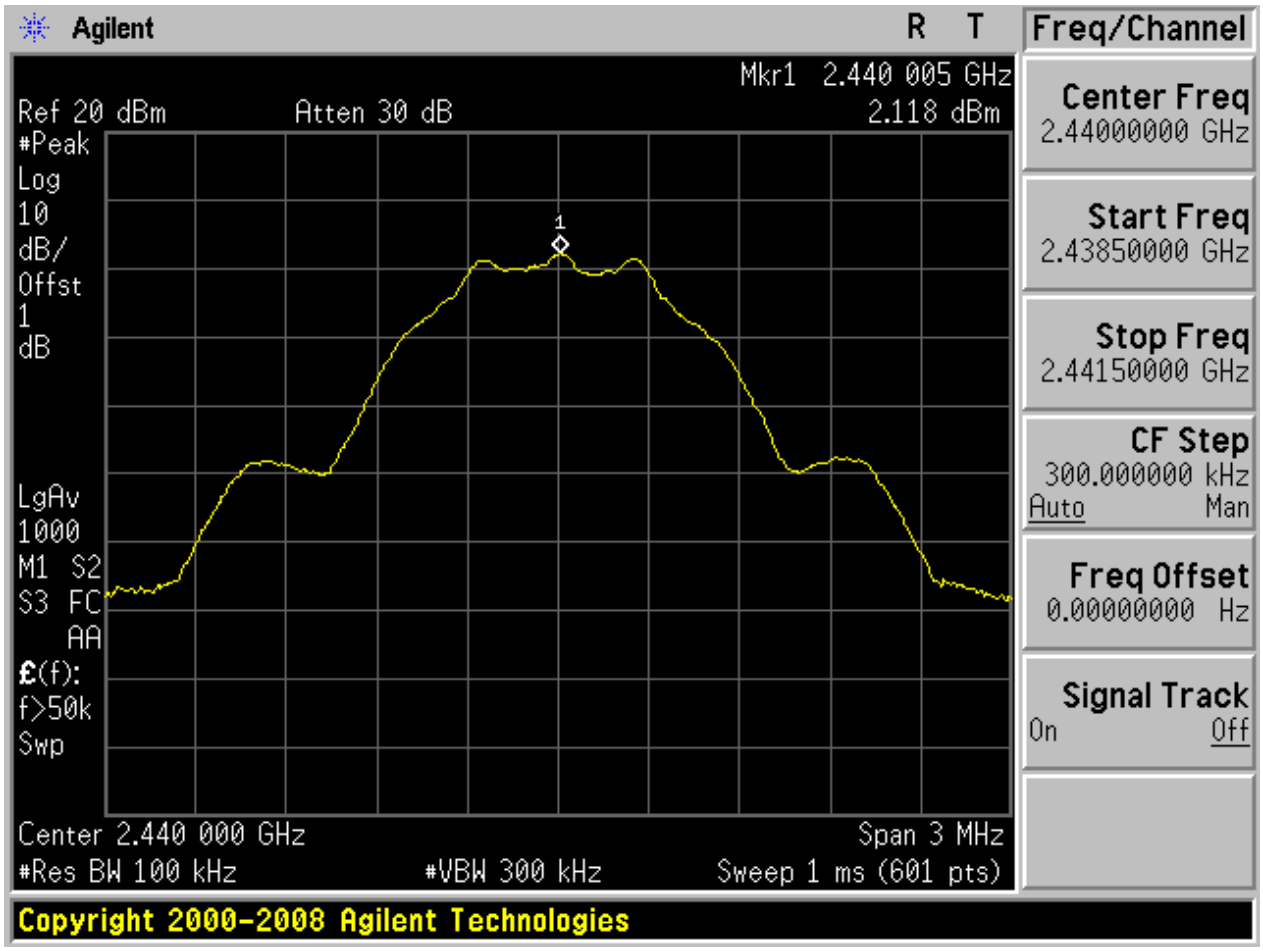




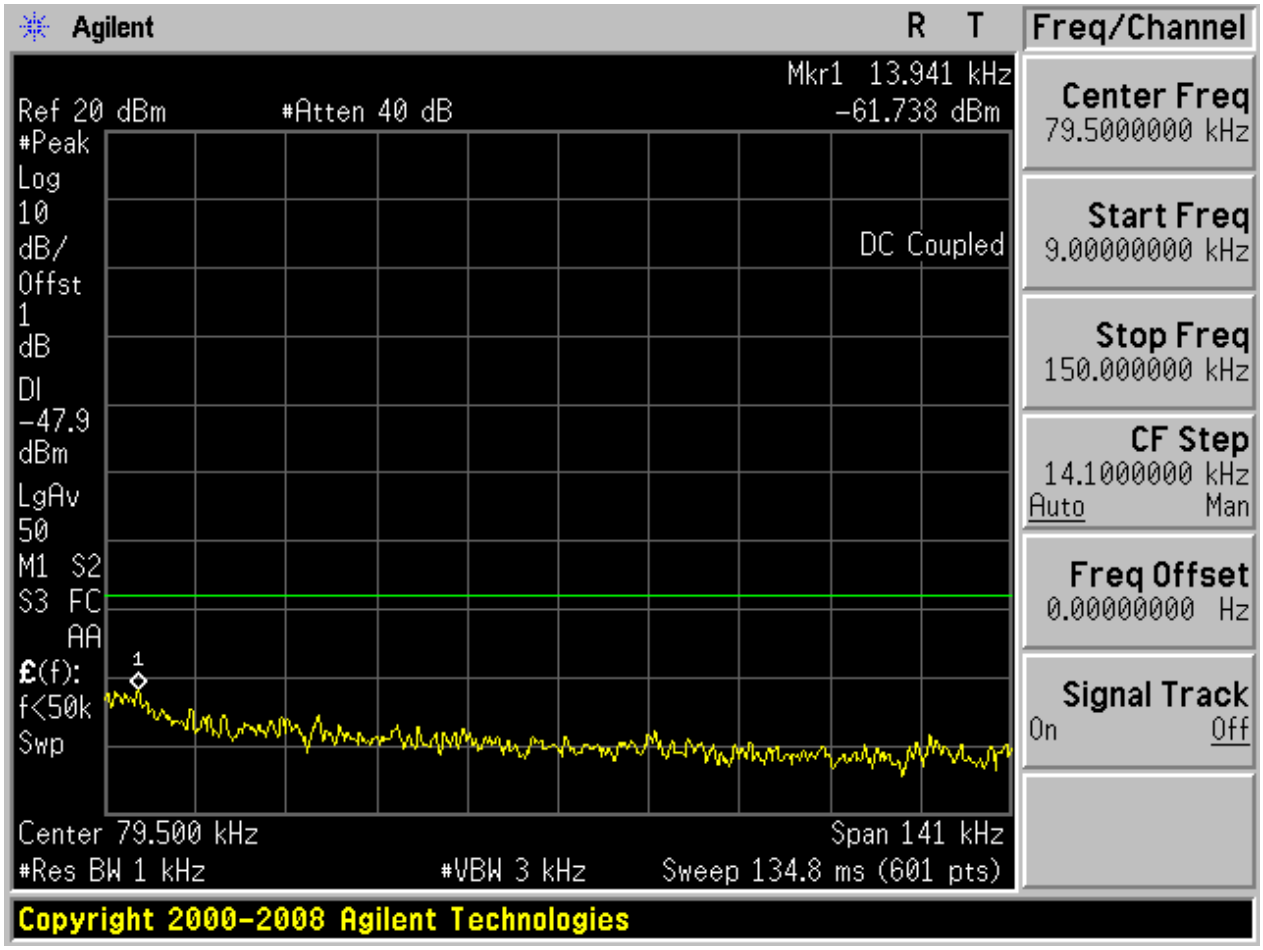


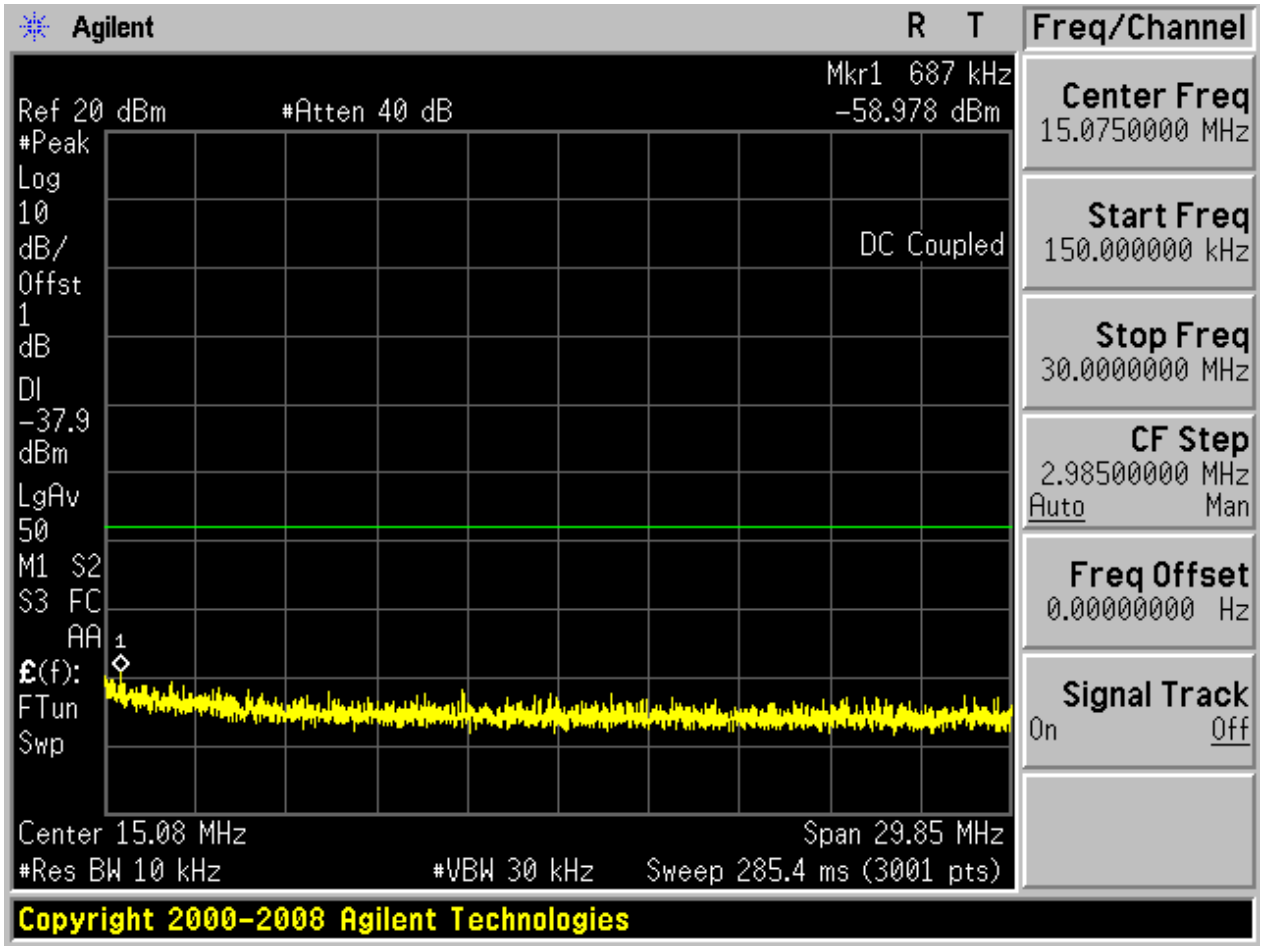
2.2 TM1_DH5_Ch19_M

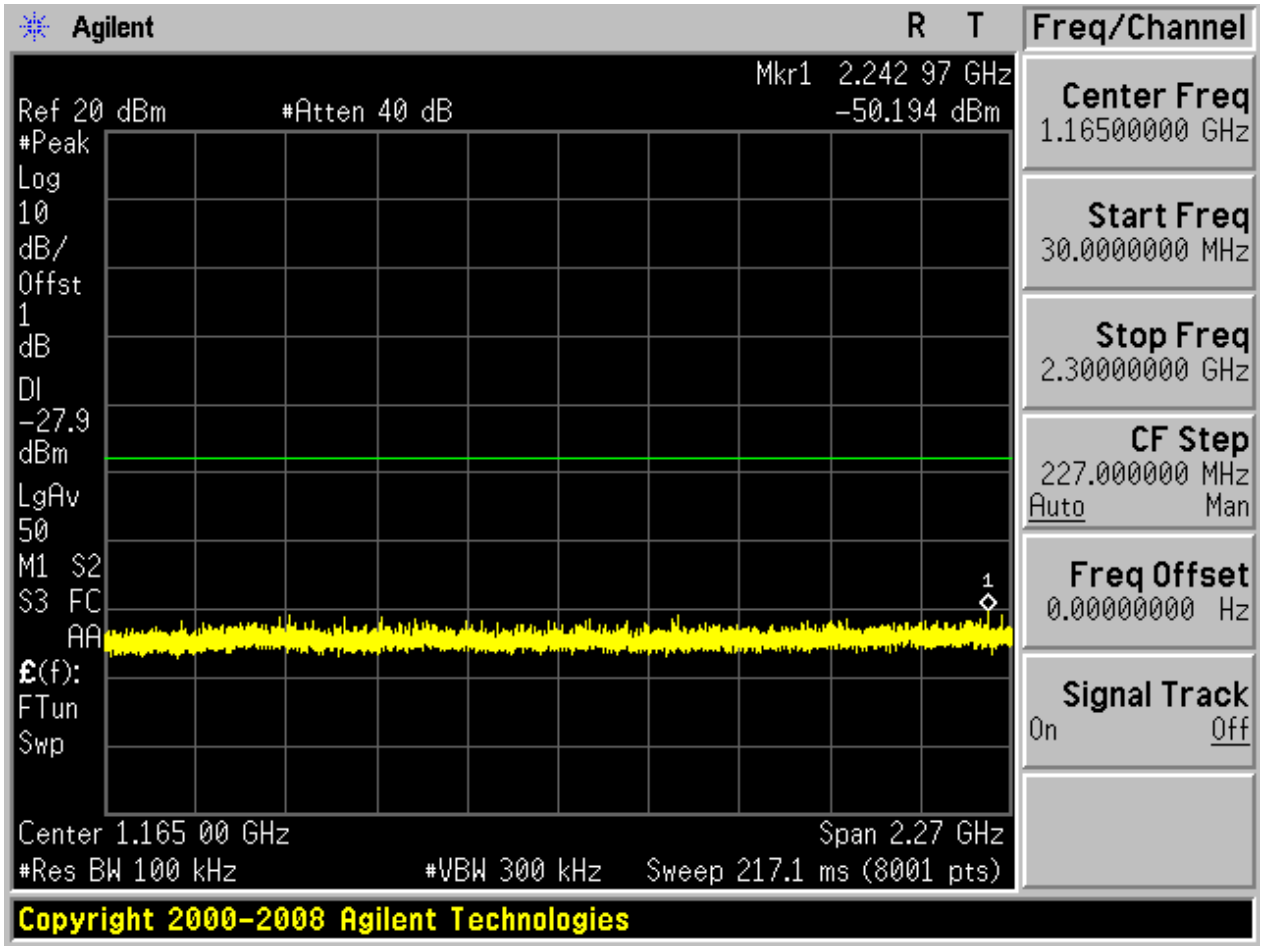
Pref:

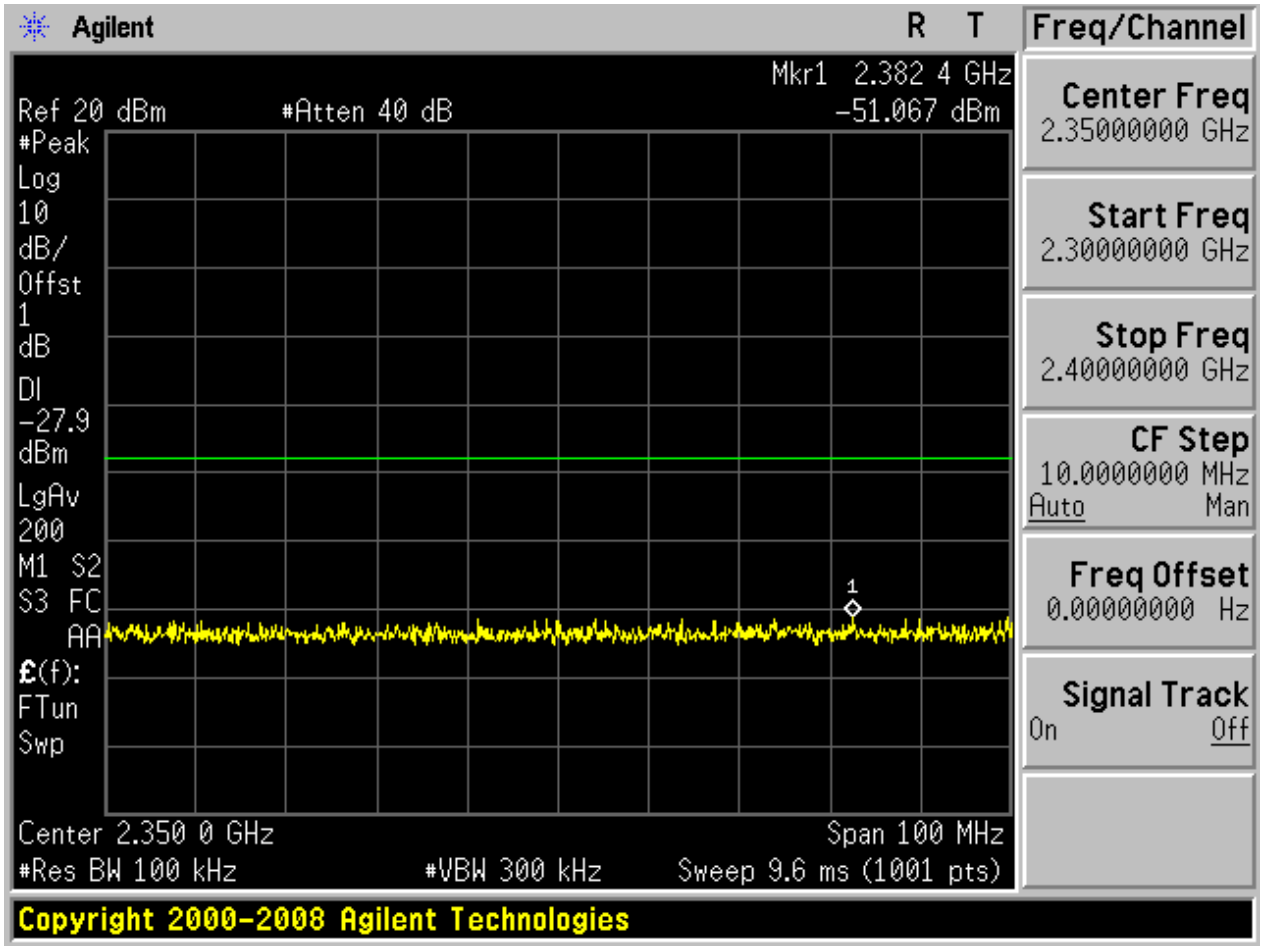


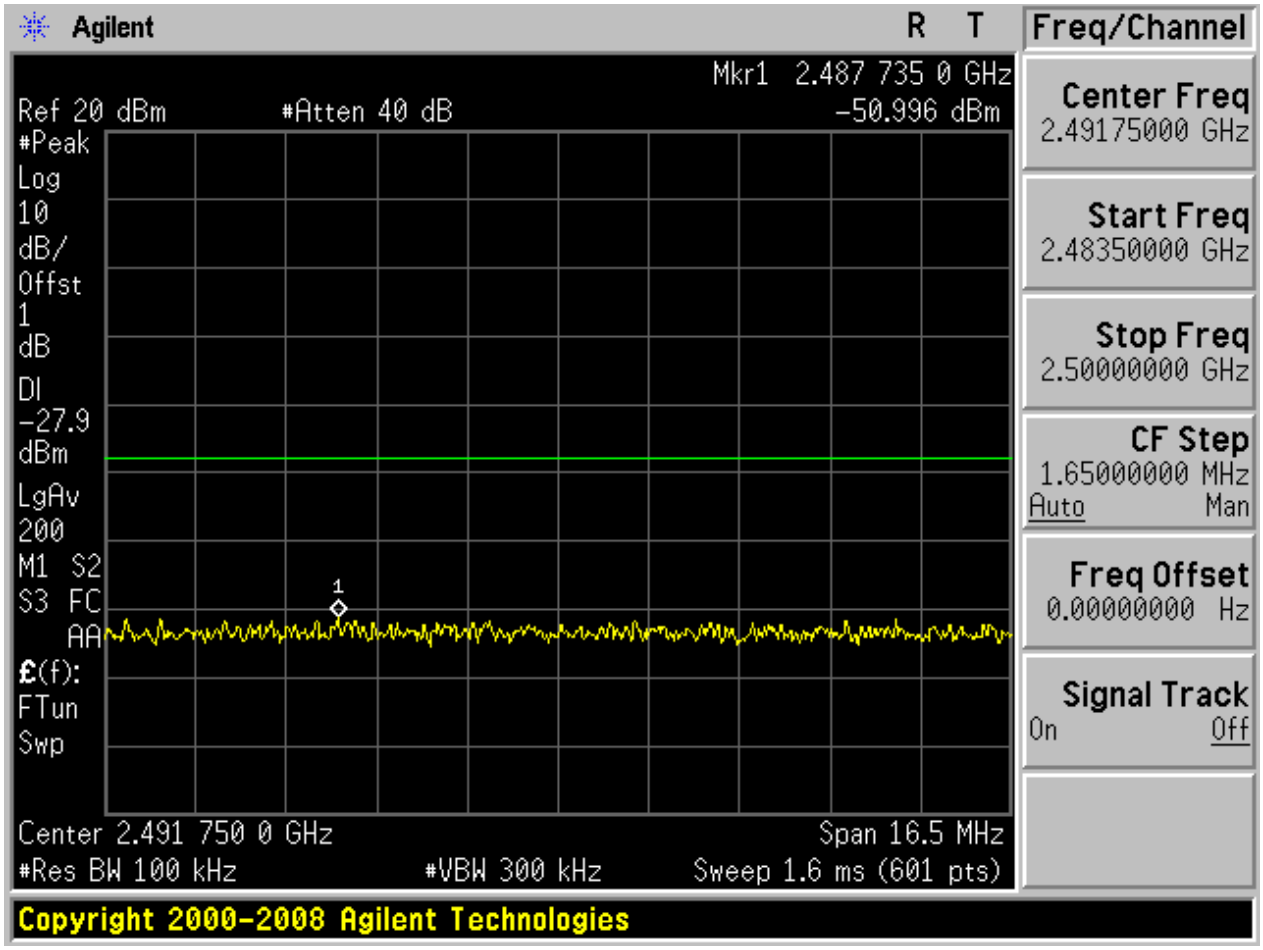
Puw:

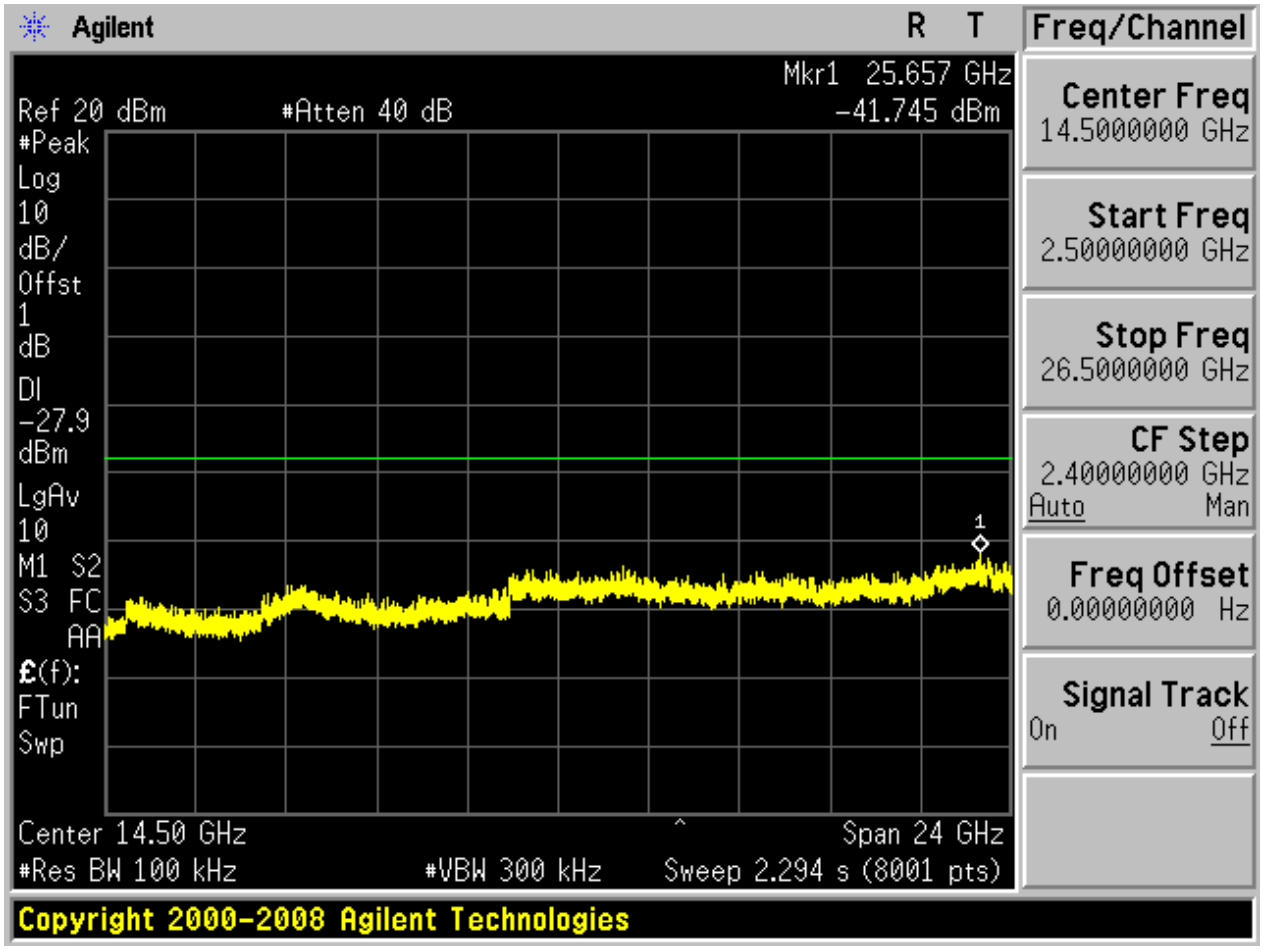






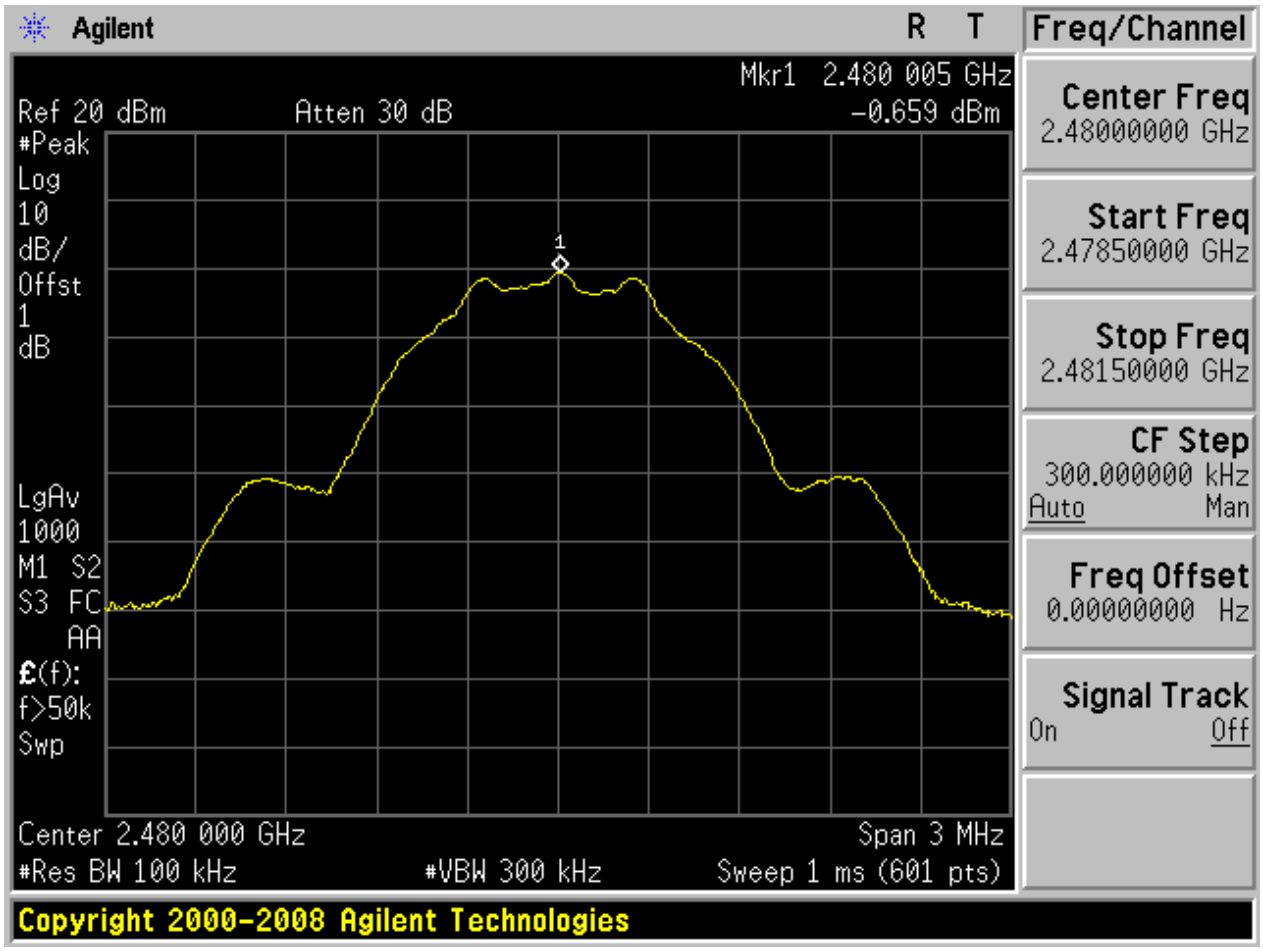




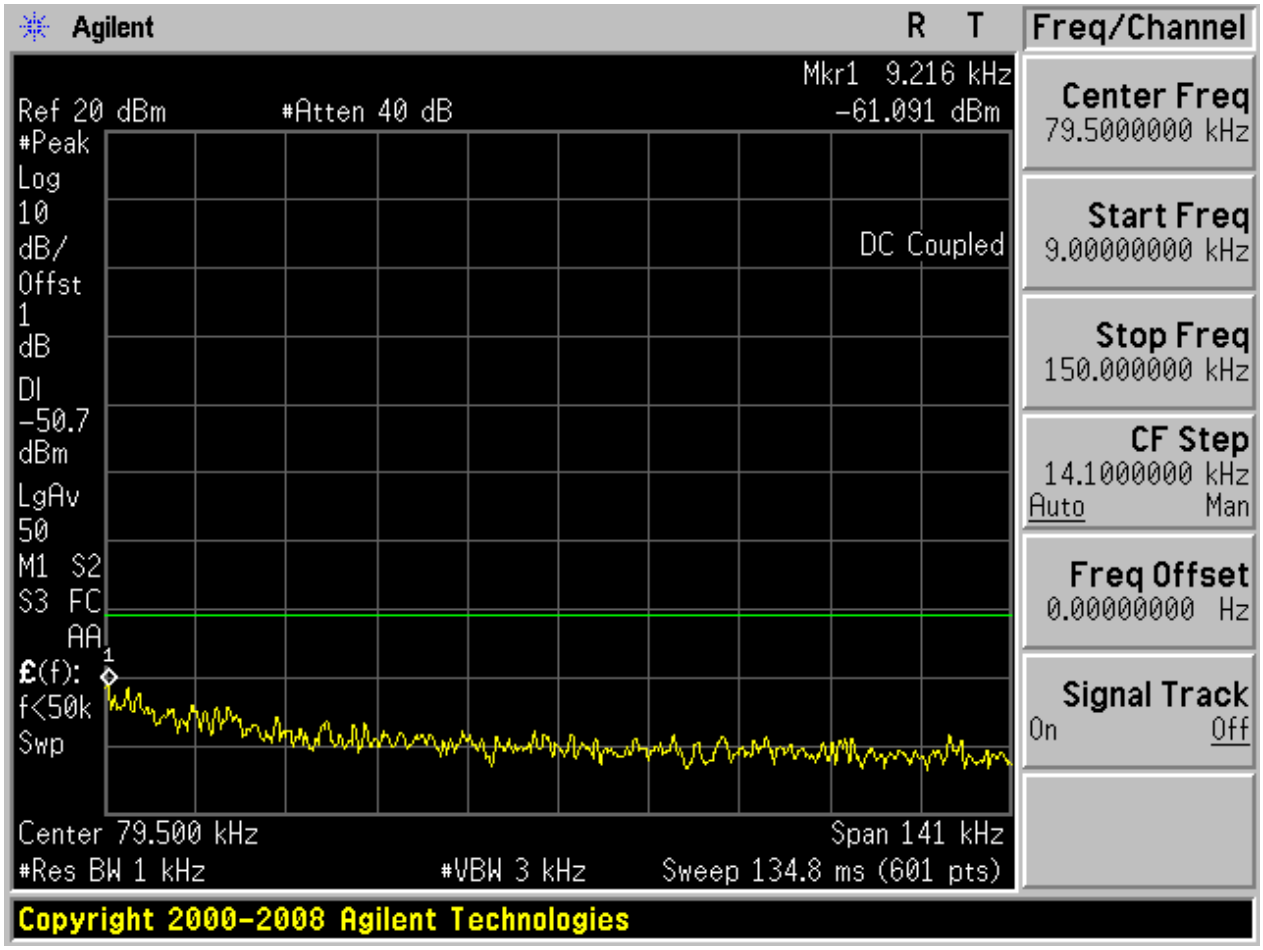


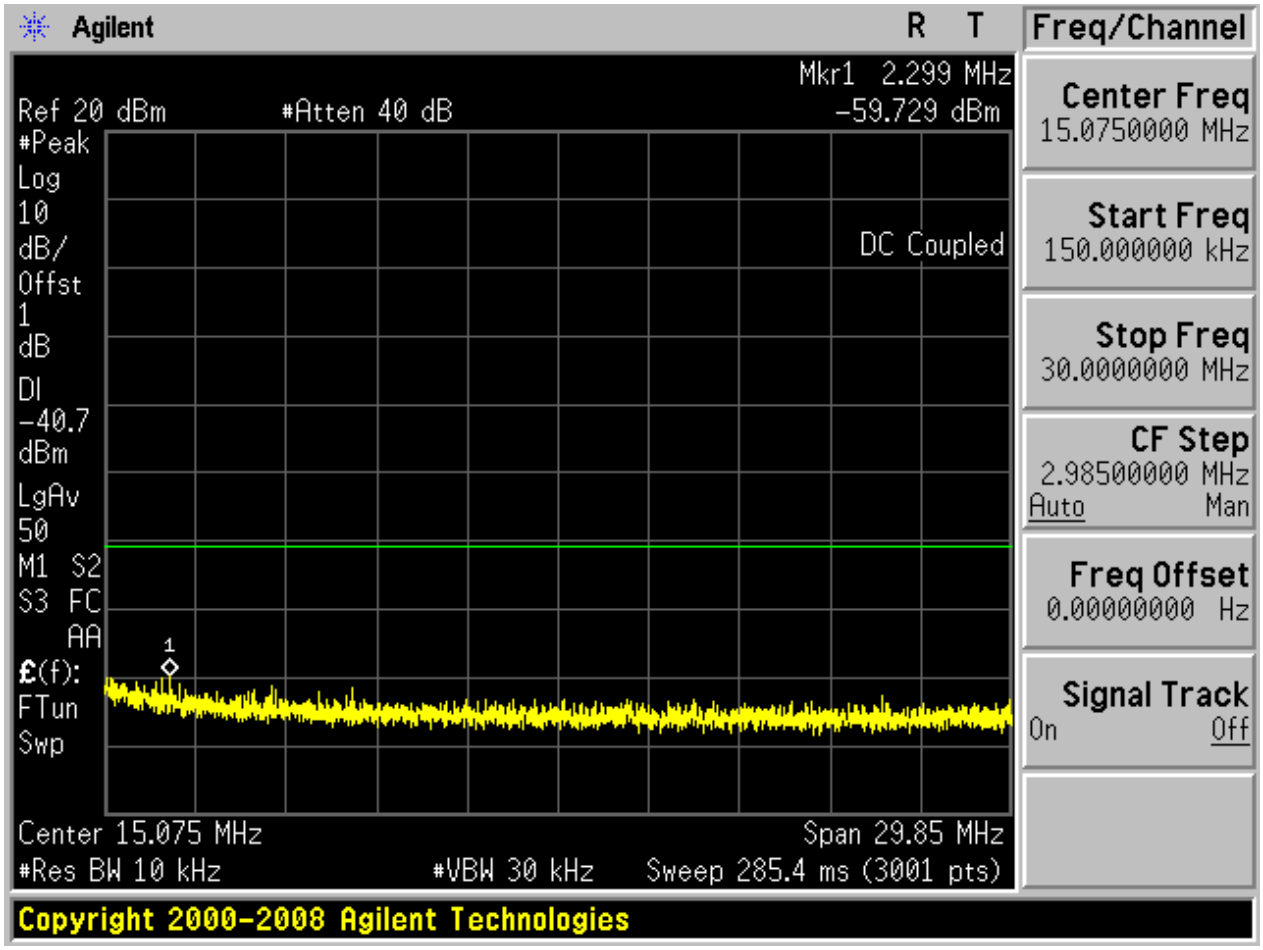
2.3 TM1_DH5_Ch39_H

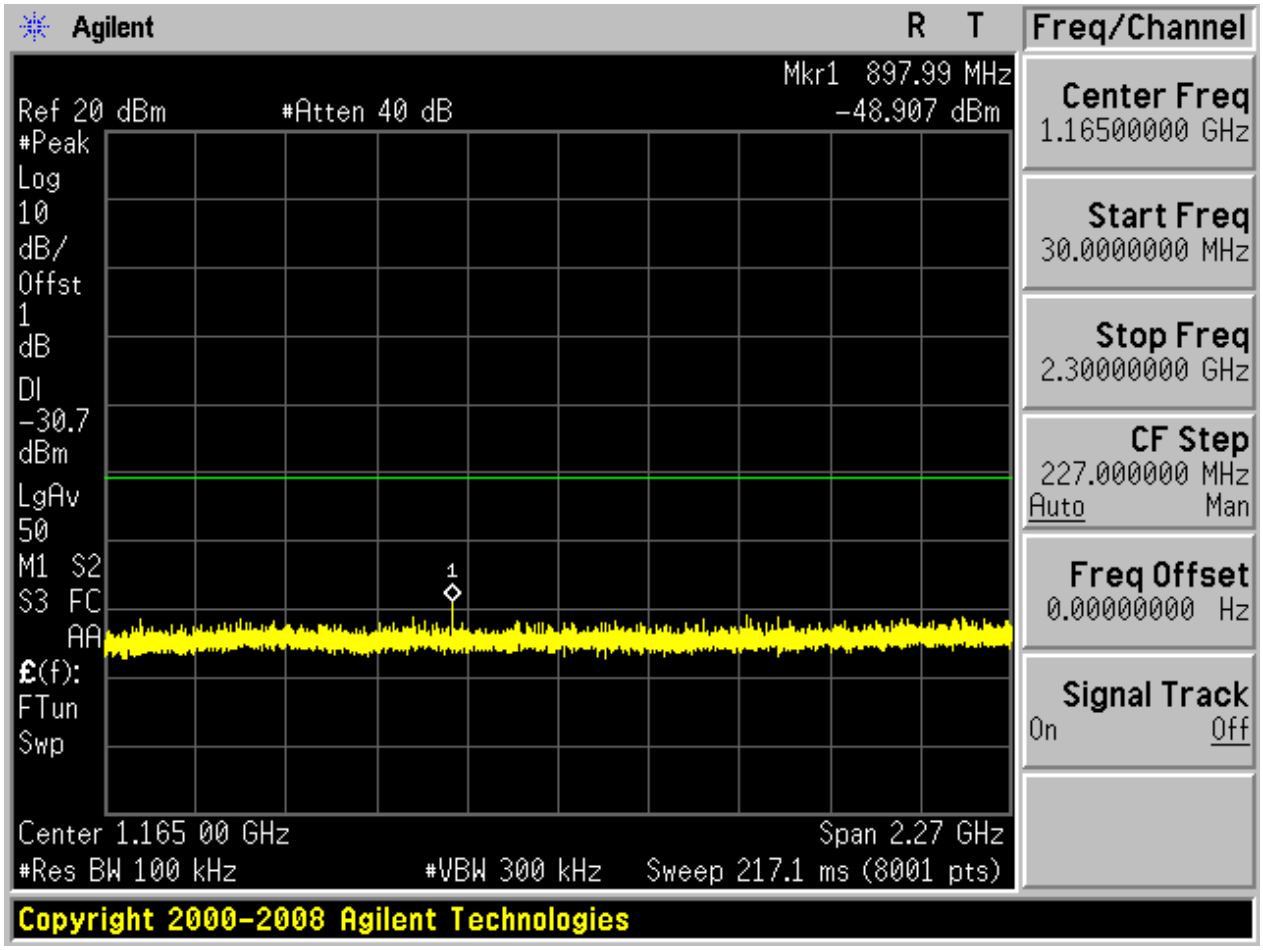
Pref:

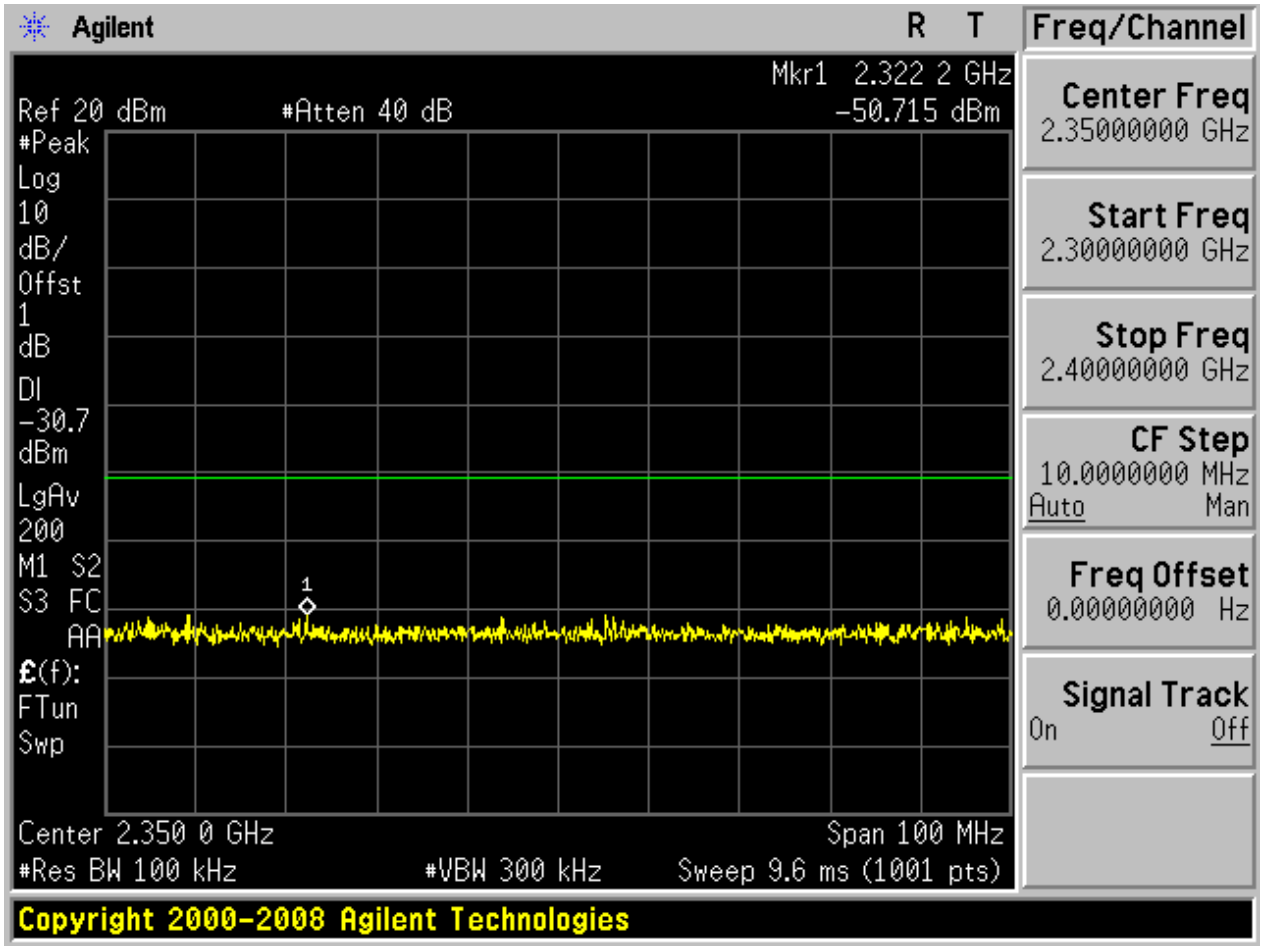


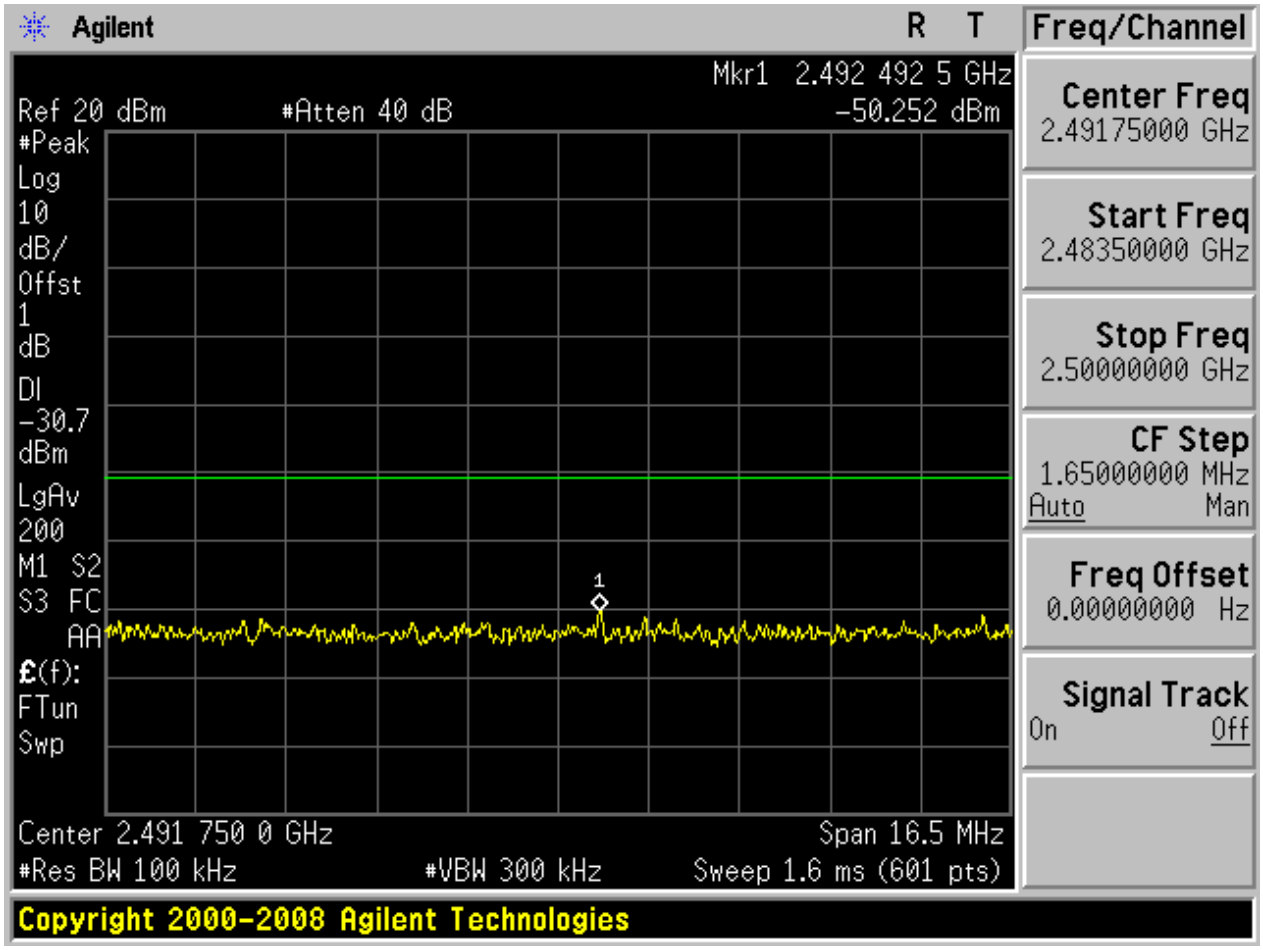
Puw:

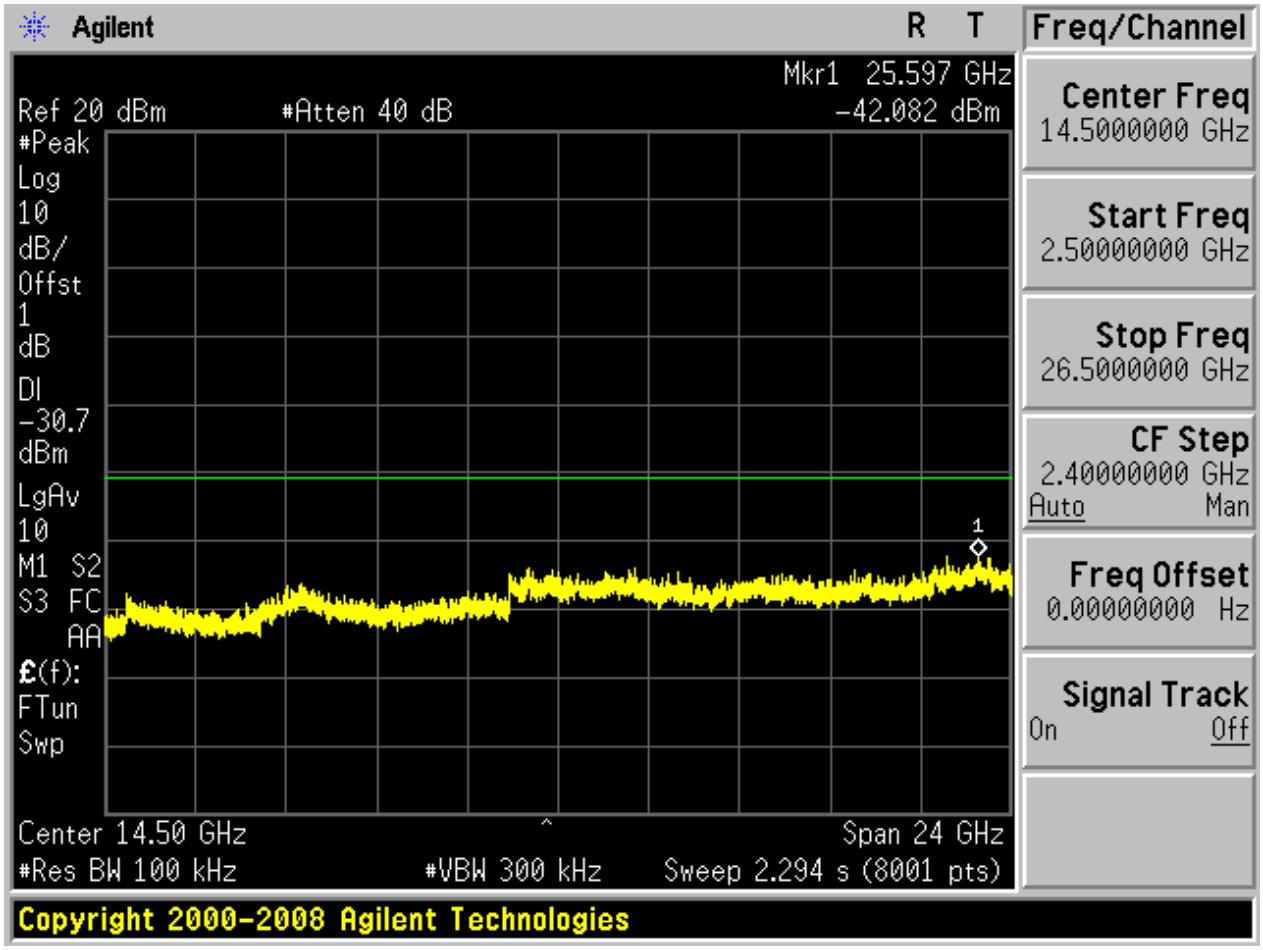












Appendix G: Radiated Spurious Emission & Spurious in Restricted Band

Note: We tested all modes, but the data presented below is the worst case.Below 1GHz, RBW = 100 kHz, VBW = 300 kHz.

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.

The simultaneous transmission has been considered

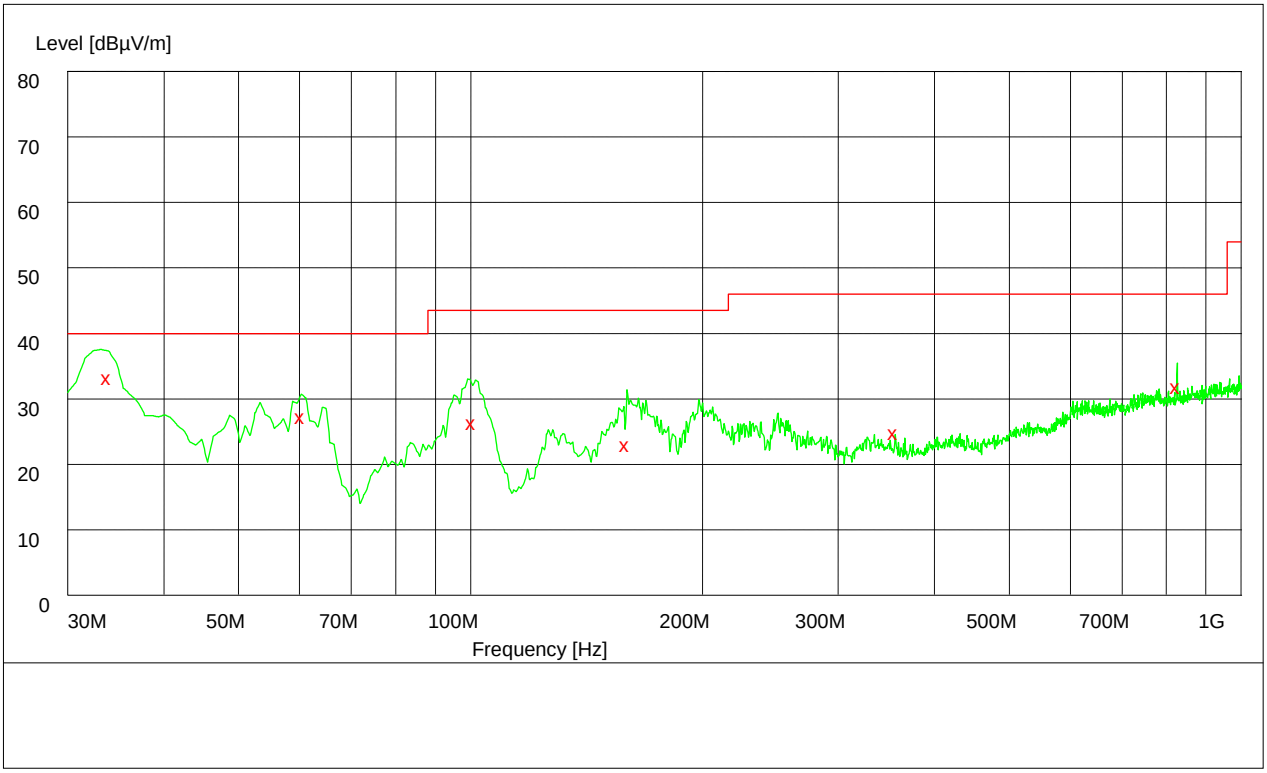
Part 1: Testing Range of “9 kHz to 30MHz”

NOTE1: No peak found in the Test Range of “9 kHz to 30MHz”

Part 2: Testing Range of “30 MHz to 1 GHz”

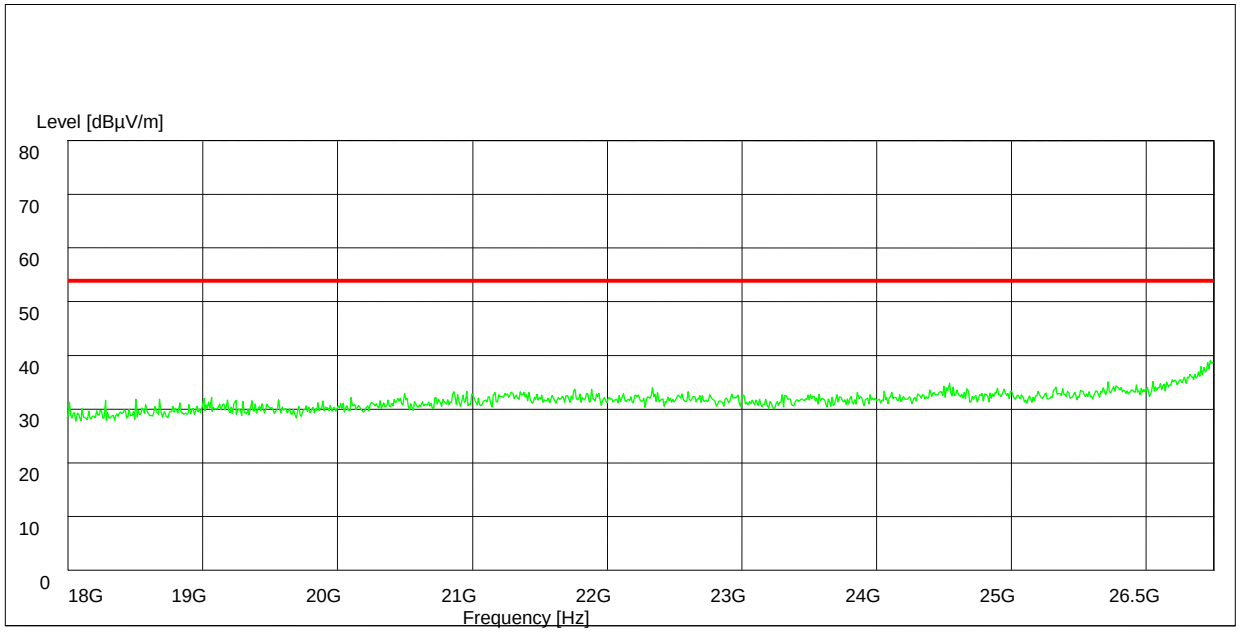
Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

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
33.884000	34.70	13.2	40.0	5.3	101.0	148.00	VERTICAL
60.504000	28.70	15.0	40.0	11.3	107.0	164.00	VERTICAL
100.740000	27.80	13.7	43.5	15.7	200.0	173.00	VERTICAL
159.712000	24.40	10.4	43.5	19.1	194.0	218.00	HORIZONTAL
355.916000	26.20	19.0	46.0	19.8	100.0	351.00	HORIZONTAL
826.232000	33.30	25.5	46.0	12.7	192.0	0.00	VERTICAL

Part 3: Testing Range of “18 GHz to 26.5 GHz”



Note: No peak found in pre- test.

Part 4: Testing Range of "2.3GHz to 2.5GHz"

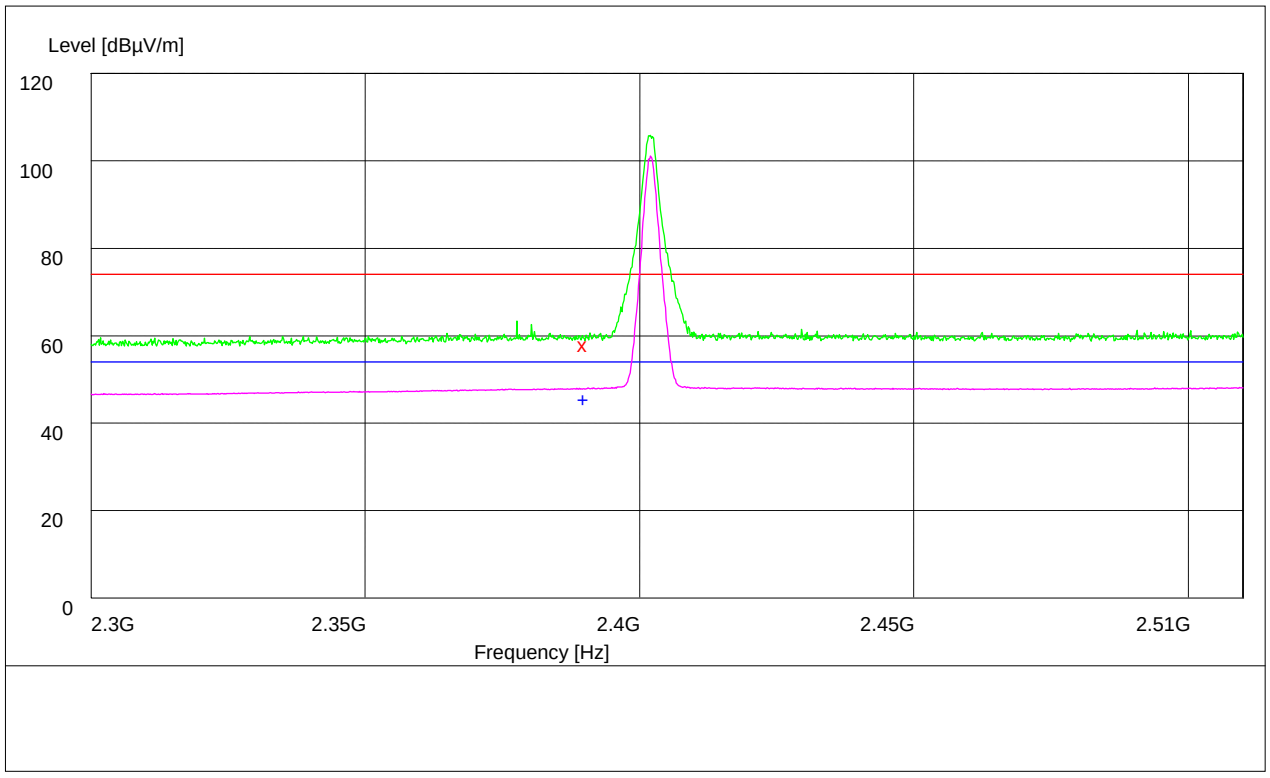
Note 1: The testing range of "2.3 GHz to 2.5 GHz" is for checking radiated emissions located in restricted bands near the EUT operating bands.

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:

Channel 0



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

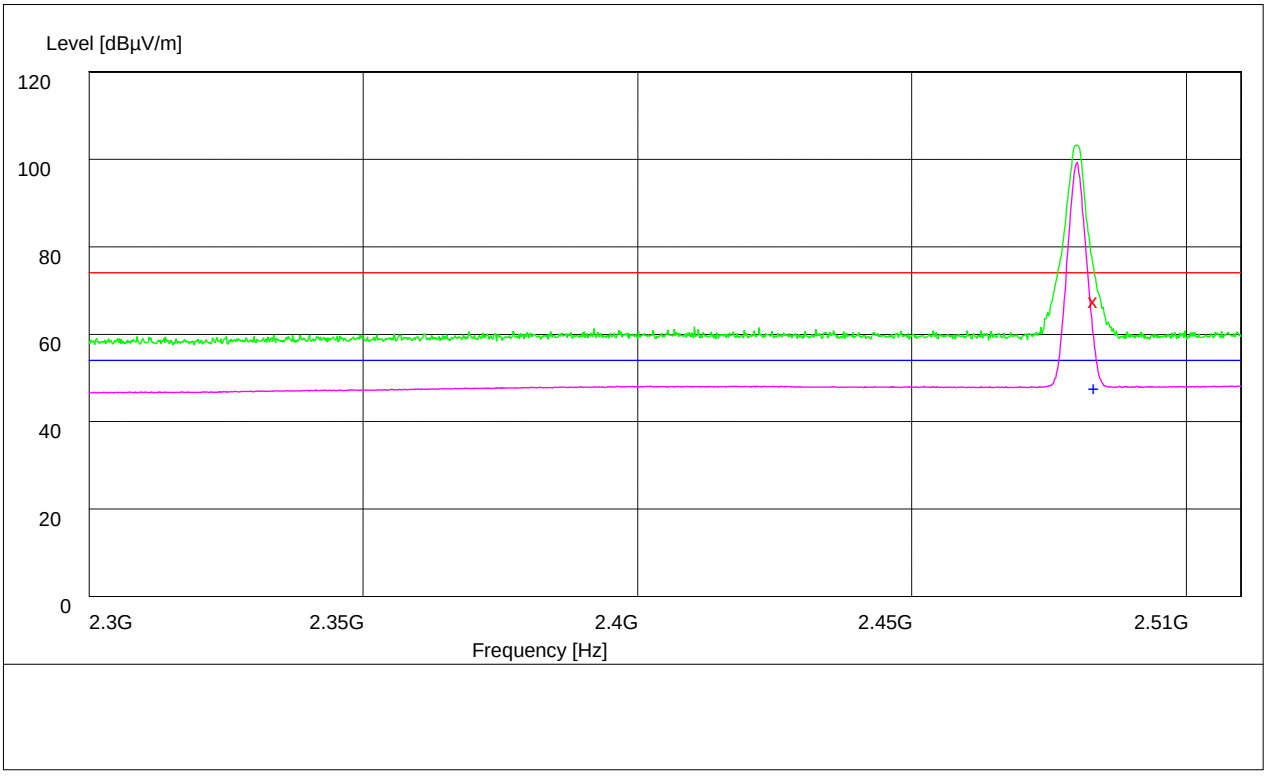
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.20	34.8	74.0	13.8	100.0	0.00	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	200.0	198.00	HORIZONTAL

Channel 39



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
2483.500000	69.80	35.1	74.0	4.2	100.0	200.00	HORIZONTAL

MEASUREMENT RESULT: AV Detector

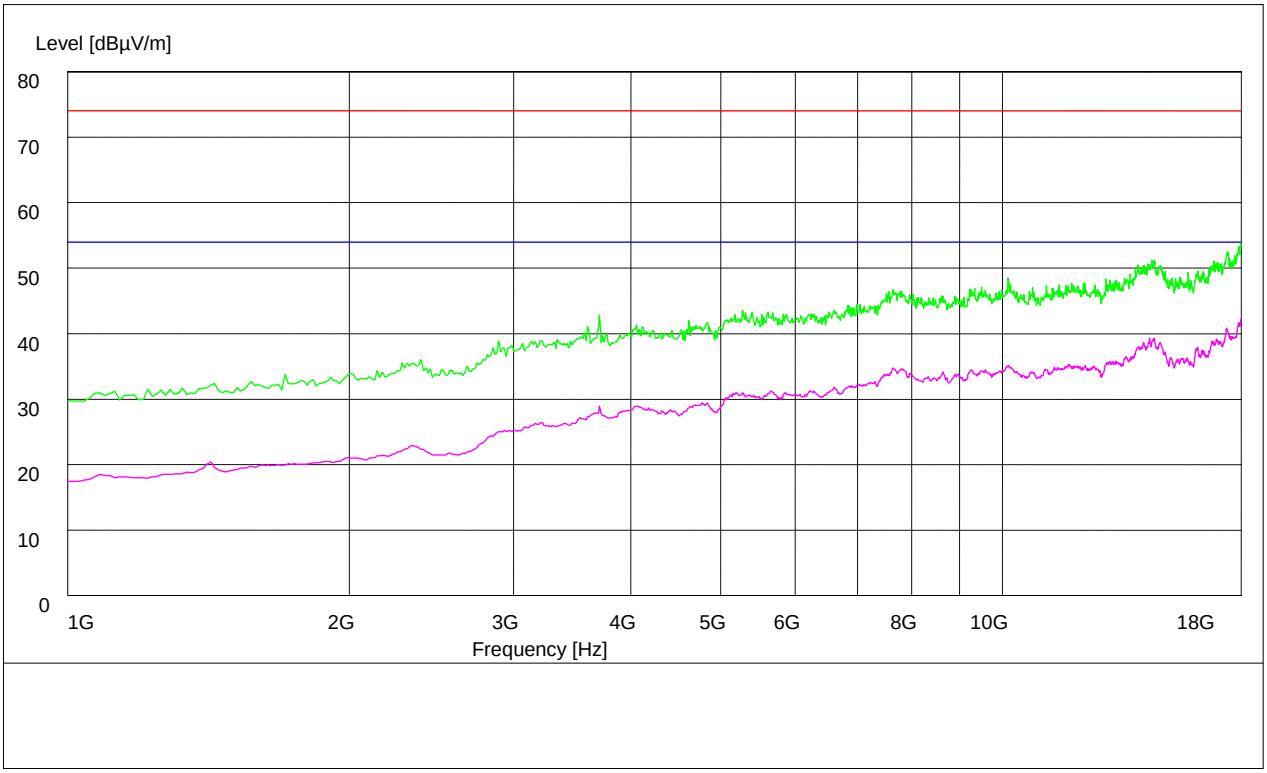
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	49.60	35.1	54.0	4.4	100.0	197.00	HORIZONTAL

Part 5: 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.

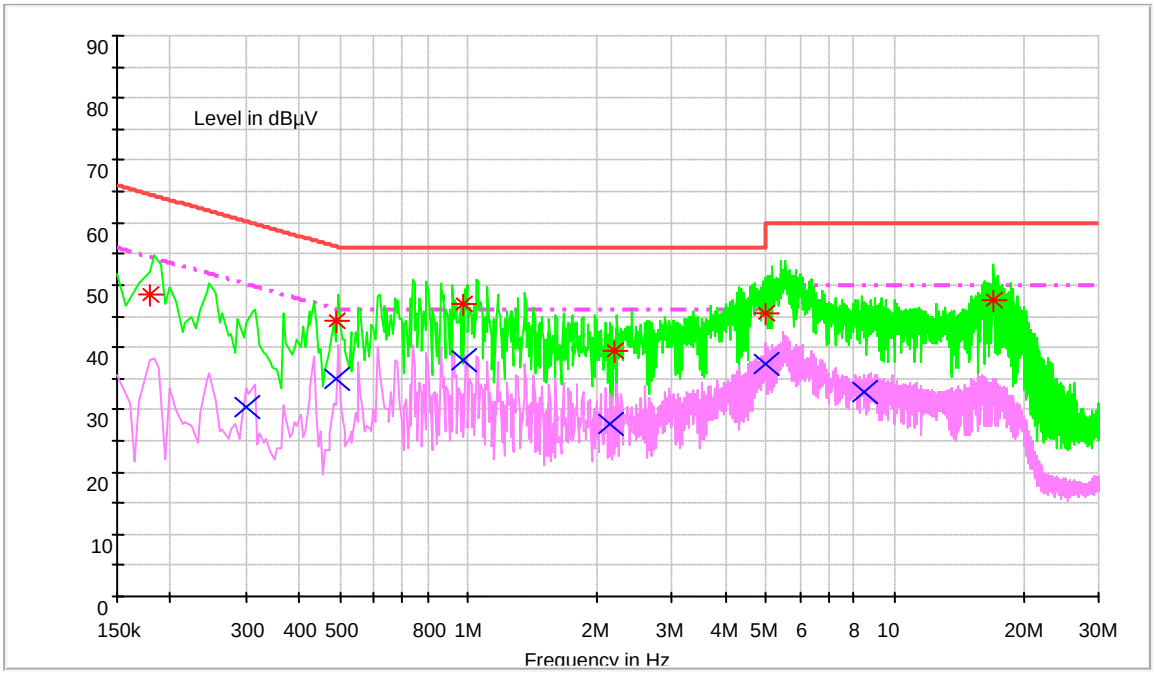
Note 3: Two limits are required in the testing range above 1 GHz, that is Peak limit (74 dBμV/m) and Average Limit (54 dBμV/m).



Appendix H: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 39



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.180074	48.4	9.7	64.5	16.1	L1	FLO
0.488595	44.1	9.7	56.2	12.1	N	FLO
0.975881	47.1	9.7	56	8.9	N	FLO
2.199978	39.6	9.7	56	16.4	N	FLO
4.951676	45.5	9.8	56	10.5	N	FLO
17.09941	47.7	10.1	60	12.3	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.303082	30.4	9.7	50.2	19.8	L1	FLO
0.4881	34.9	9.7	46.2	11.3	N	FLO
0.97653	38	9.7	46	8	N	FLO
2.139994	27.8	9.7	46	18.2	N	FLO
4.985561	37.3	9.8	46	8.7	N	FLO
8.442158	32.9	9.9	50	17.1	N	FLO

Note: Level= Reading level+ Transd (cable loss + correction factor).The reading level is used to calculate by software which is not shown in the sheet.

END