



1 Appendix for Test report



1.1 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.

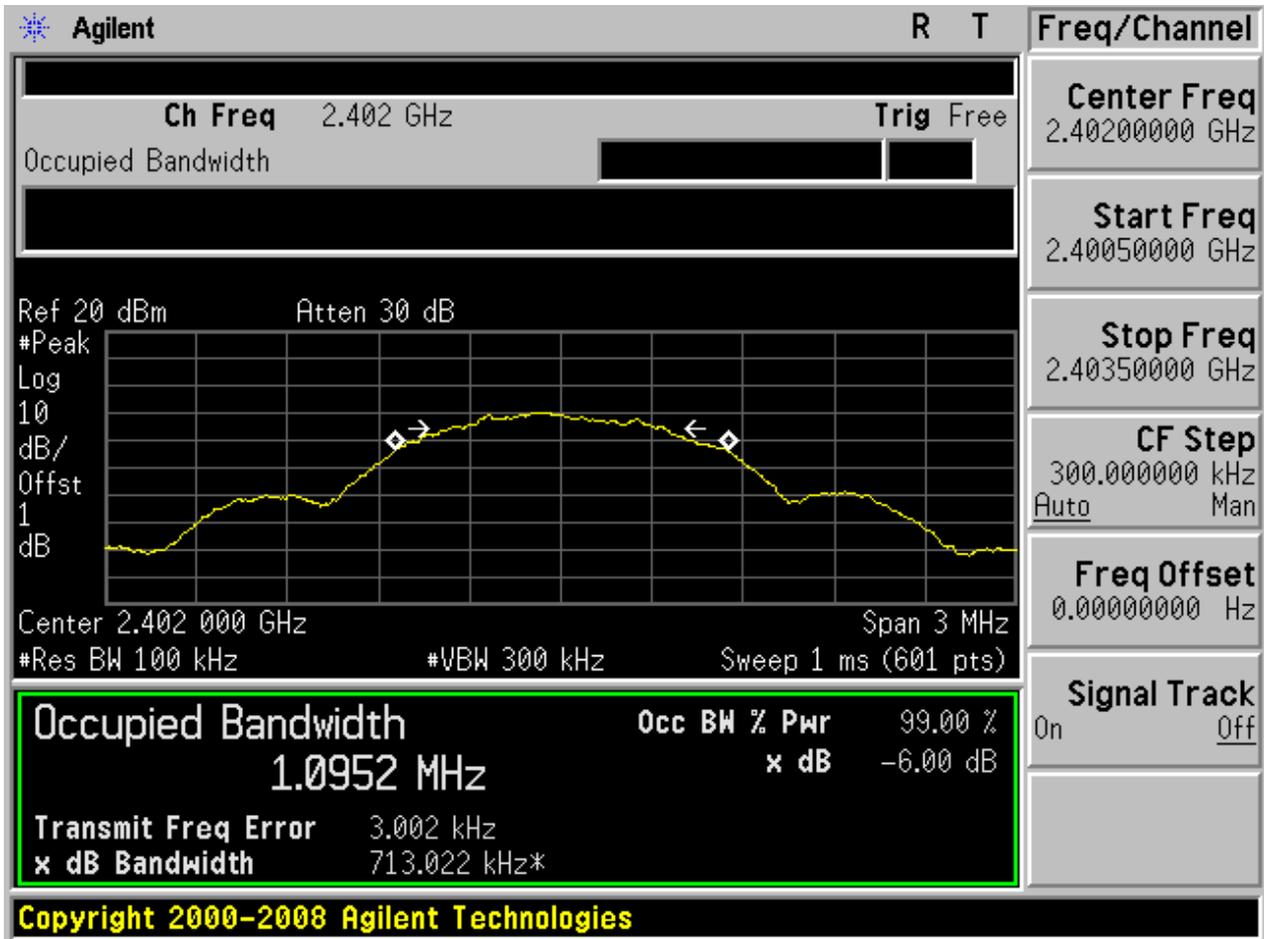
1.1.1 Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	DTS6dBBW[kHz]	Verdict
TM1_DH5_Ch0	L	2402	713	pass
TM1_DH5_Ch19	M	2440	728	pass
TM1_DH5_Ch39	H	2480	714	pass



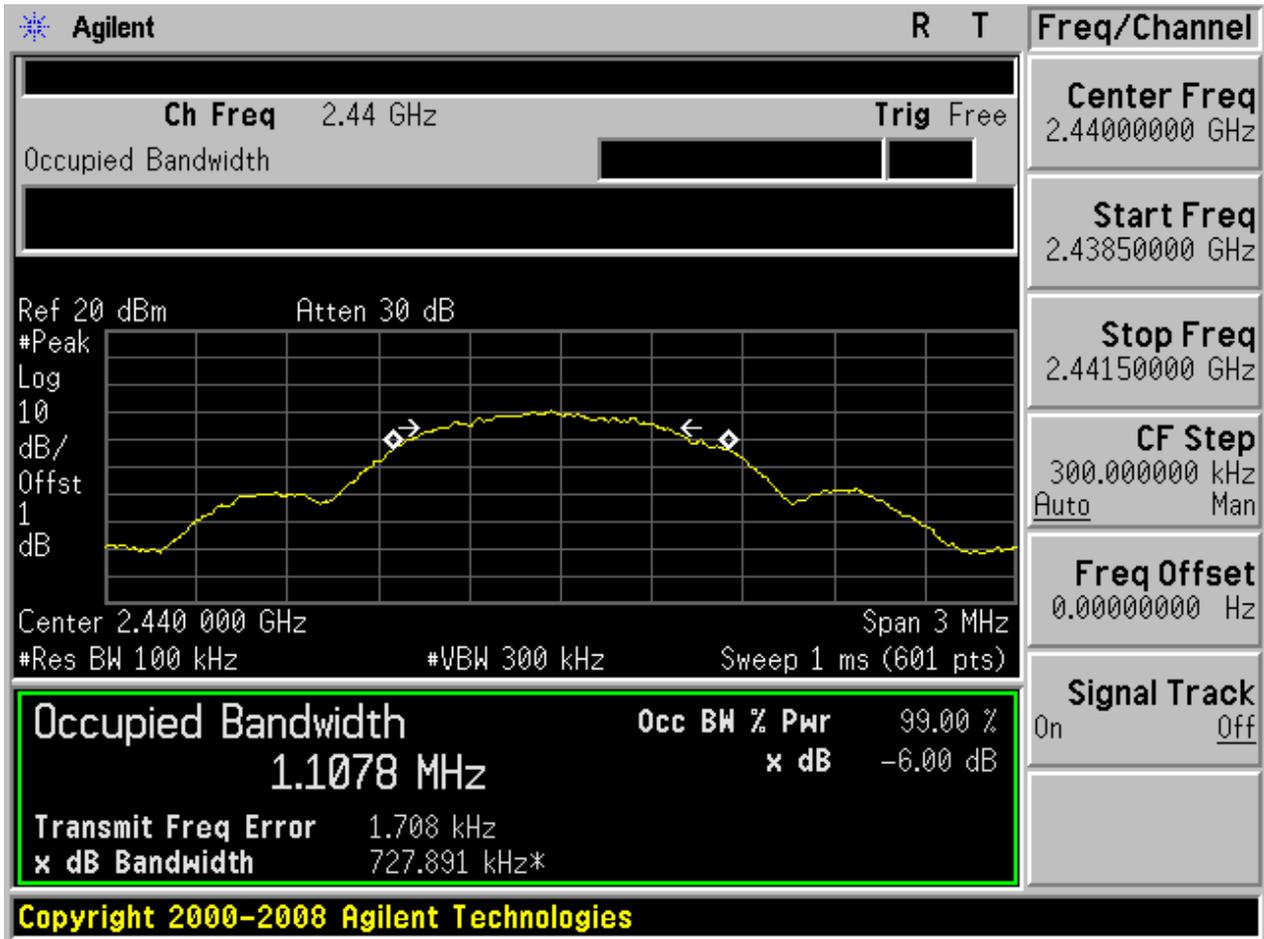
1.1.2 Part II - Test Plots

1.1.2.1 2.1 TM1_DH5_Ch0_L



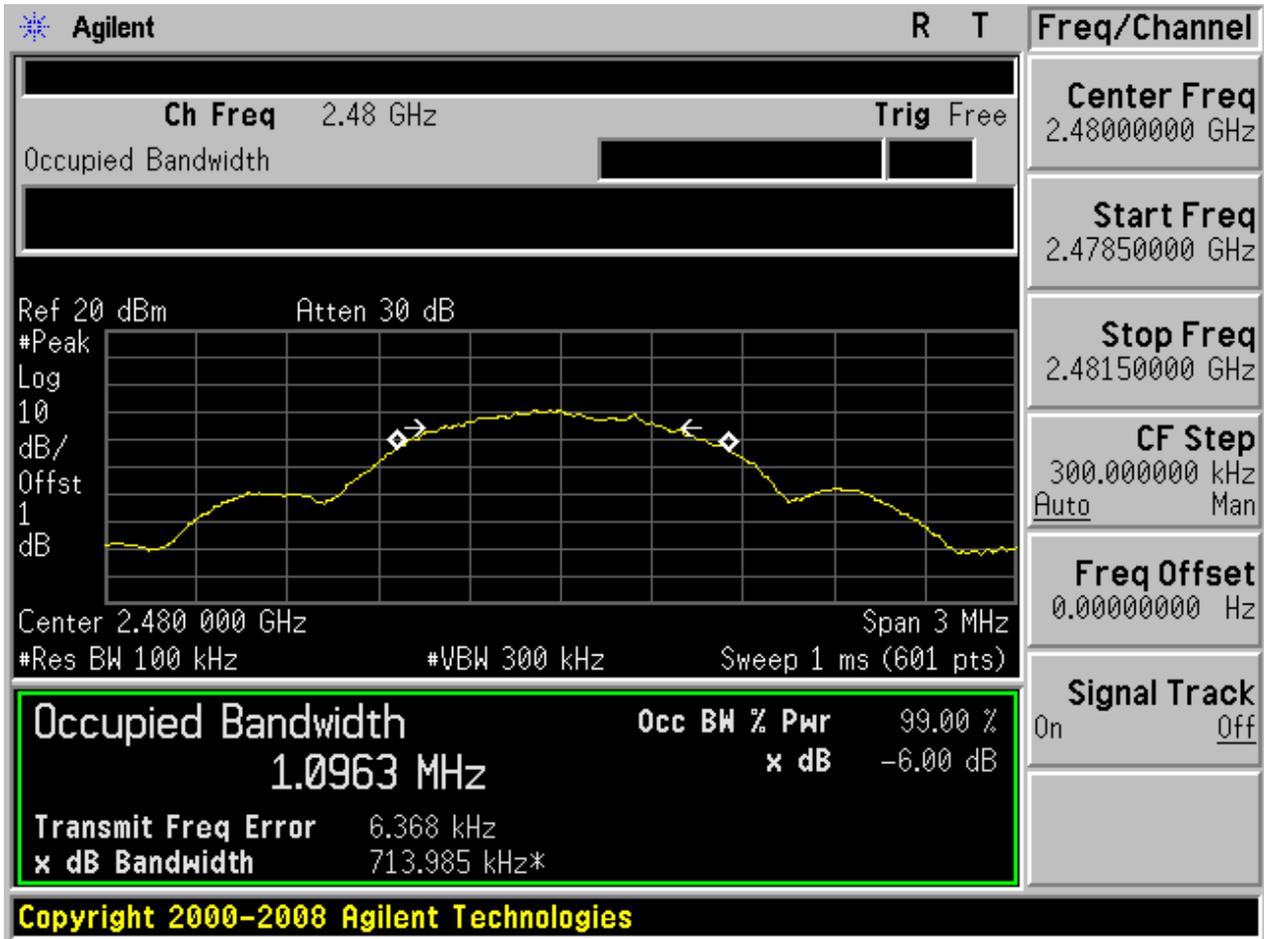


1.1.2.2 2.3 TM1_DH5_Ch19_M





1.1.2.3 2.5 TM1_DH5_Ch39_H





1.2 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.

1.2.1 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



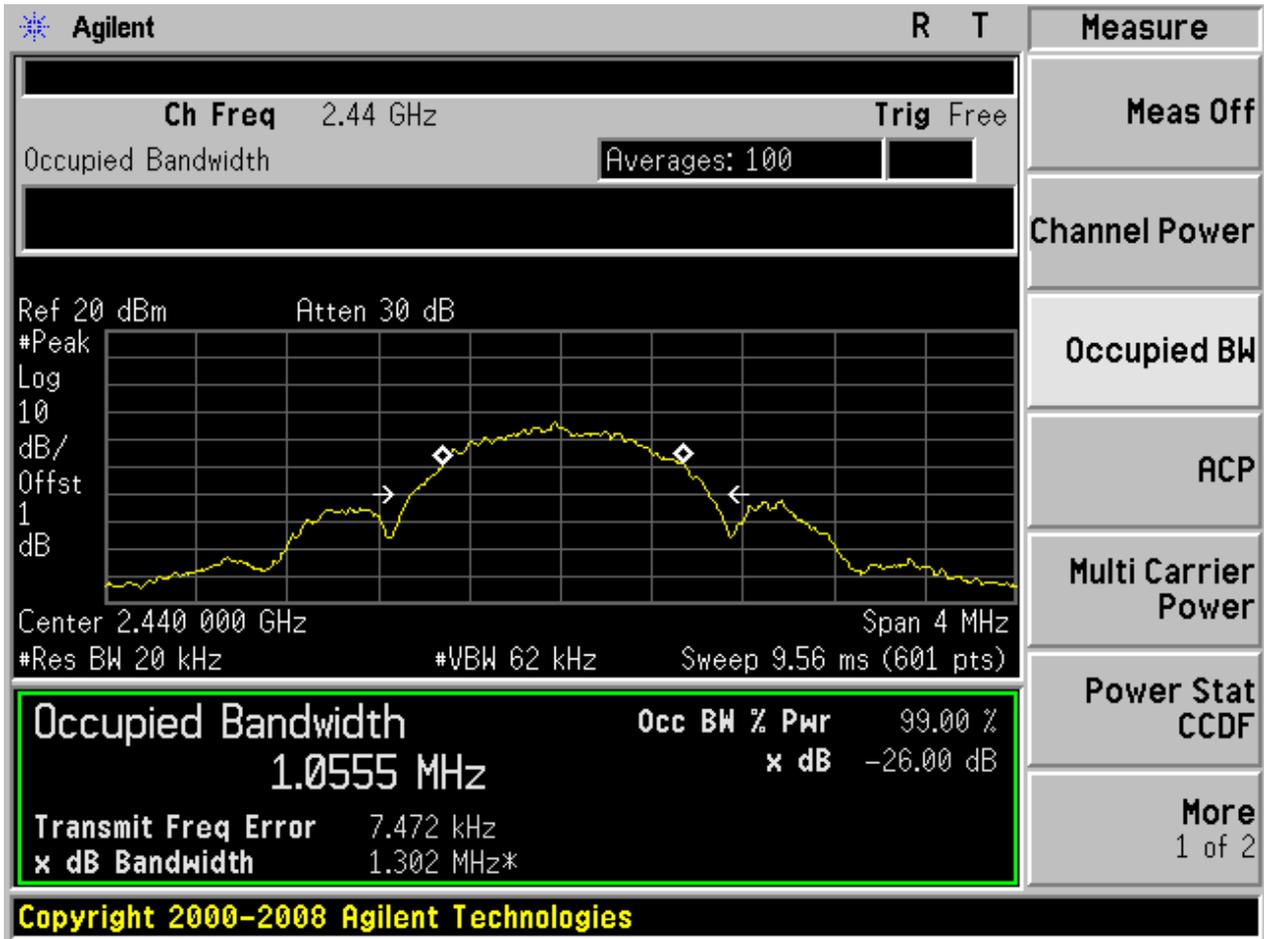
1.2.2 Part II - Test Plots

1.2.2.1 2.1 TM1_DH5_Ch0_L





1.2.2.2 2.1 TM1_DH5_Ch19_M





1.2.2.3 2.1 TM1_DH5_Ch39_H





1.3 Appendix C: Maximum Conducted Average Output Power

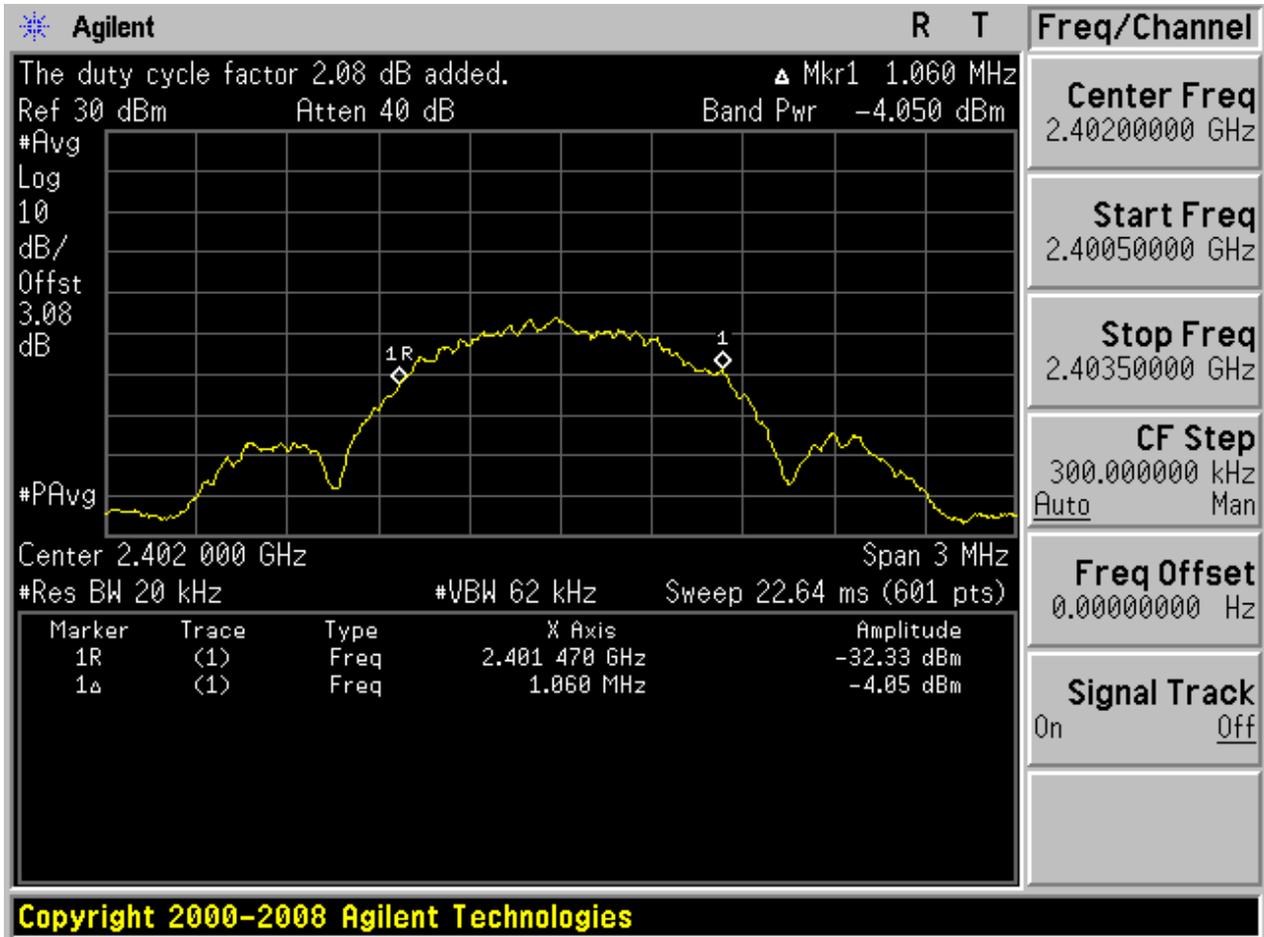
1.3.1 Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	Power[dBm]	Verdict
TM1_DH5_Ch0	L	2402	45.3	-2.26	pass
TM1_DH5_Ch19	M	2440	45.3	-1.91	pass
TM1_DH5_Ch39	H	2480	45.3	-1.66	pass



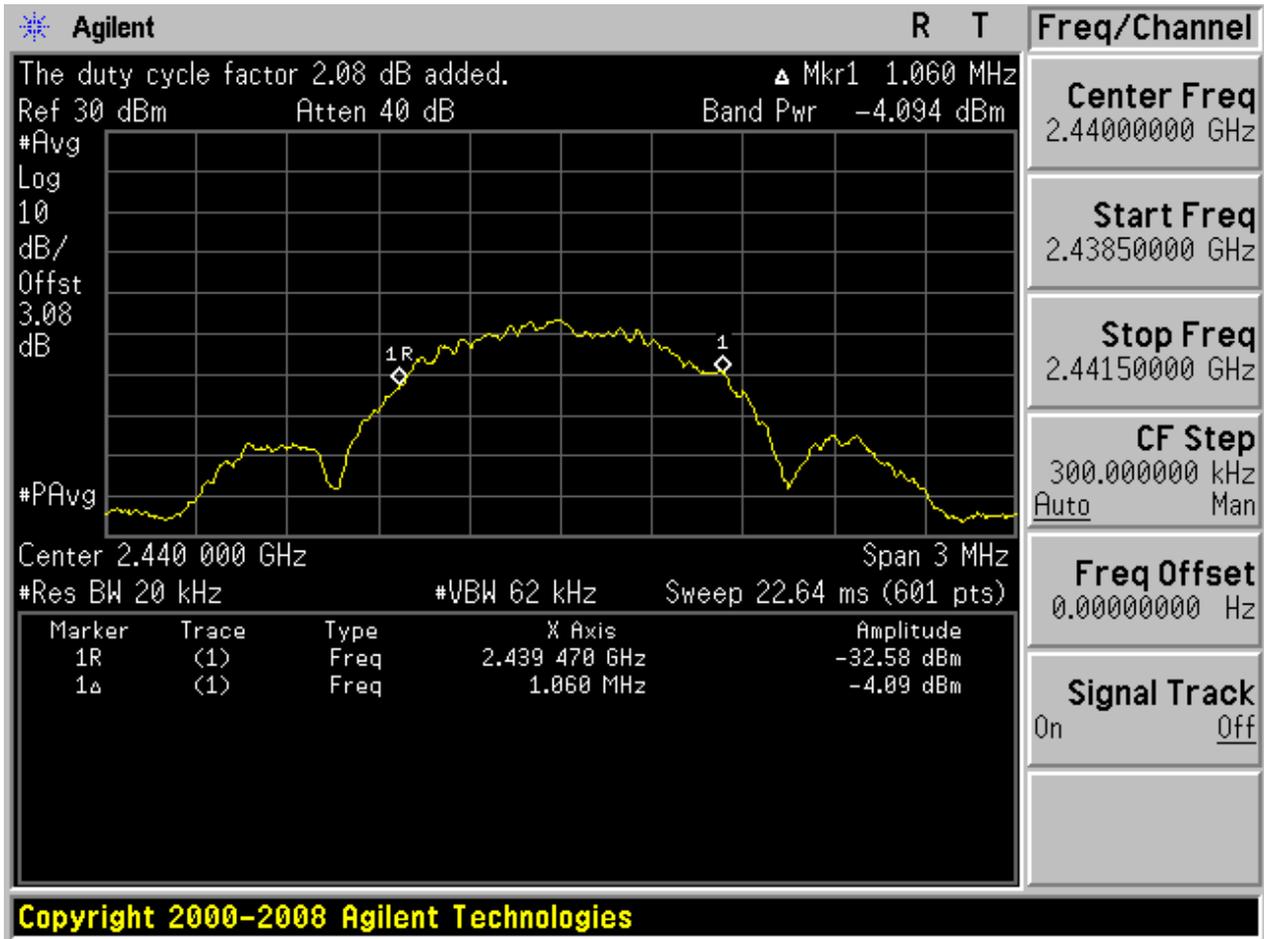
1.3.2 Part II - Test Plots

2.1 TM1_DH5_Ch0_L



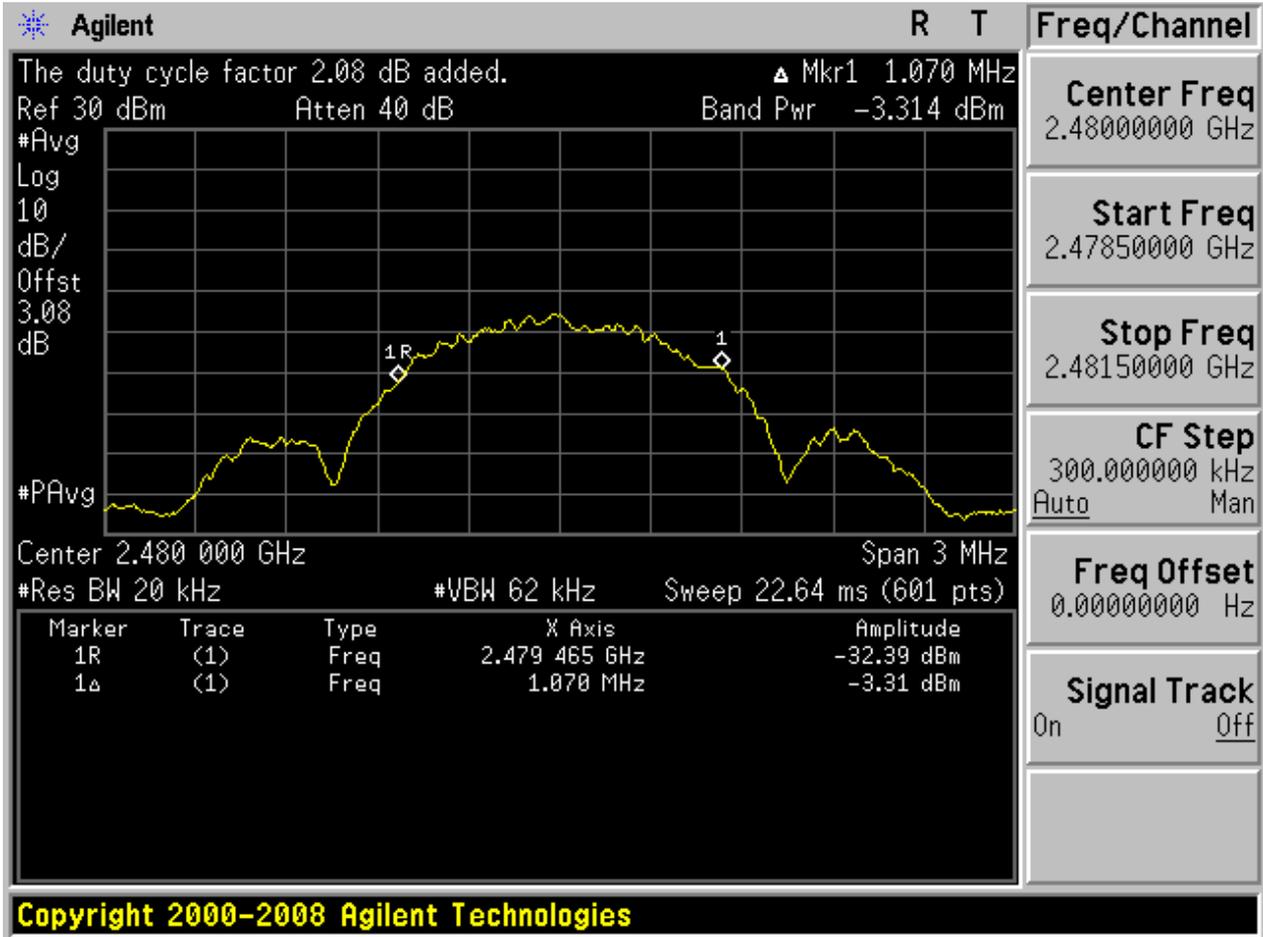


1.3.2.1 2.3 TM1_DH5_Ch19_M





1.3.2.2 2.5 TM1_DH5_Ch39_H





1.4 Appendix D: Maximum Power Spectral Density Level

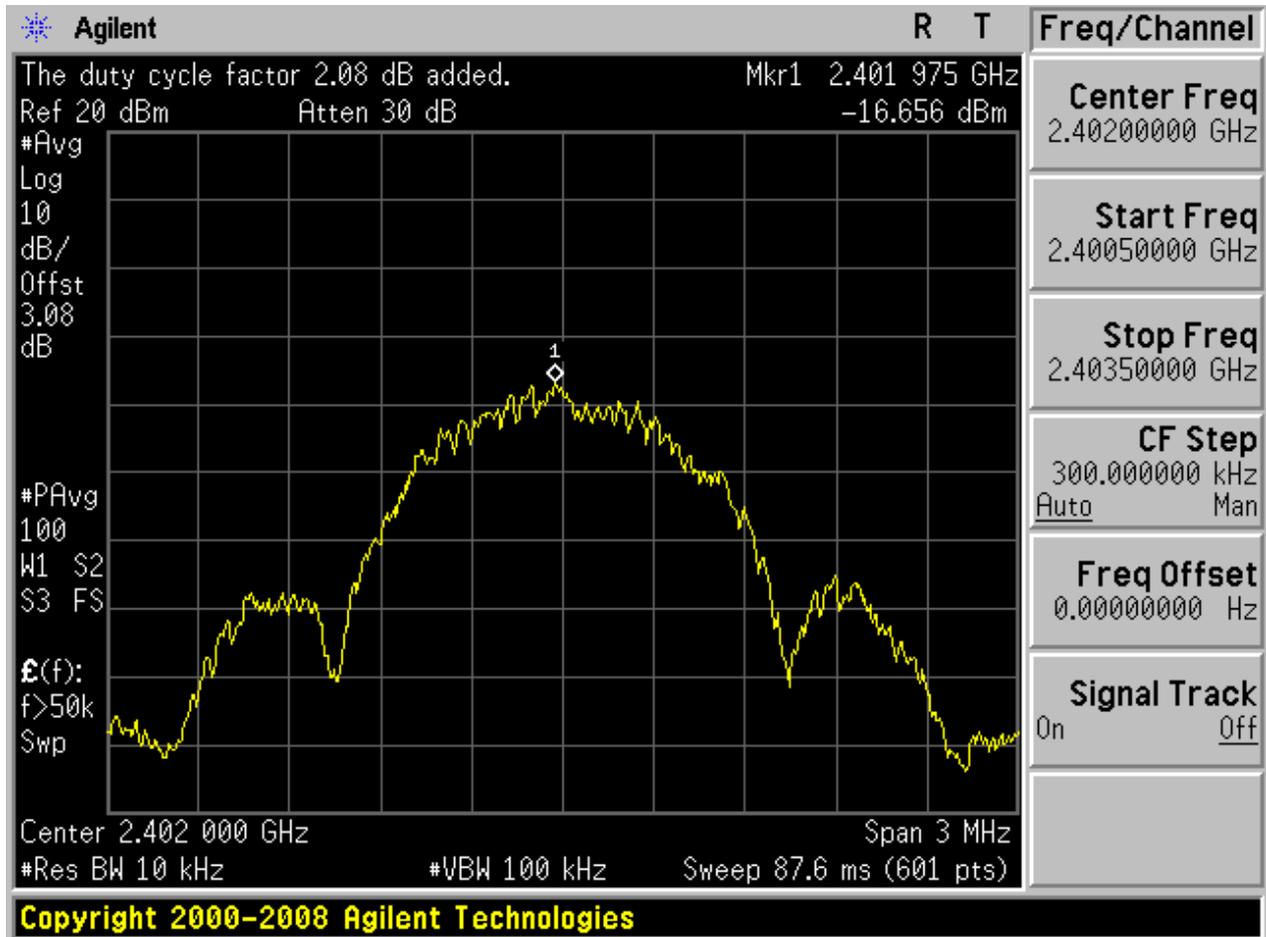
1.4.1 Part I - Test Results

Test Mode	Test Channel	Frequency[MHz]	Duty Cycle [%]	PD[MHz]	Verdict
TM1_DH5_Ch0	L	2402	45.3	-16.66	pass
TM1_DH5_Ch19	M	2440	45.3	-16.68	pass
TM1_DH5_Ch39	H	2480	45.3	-15.88	pass



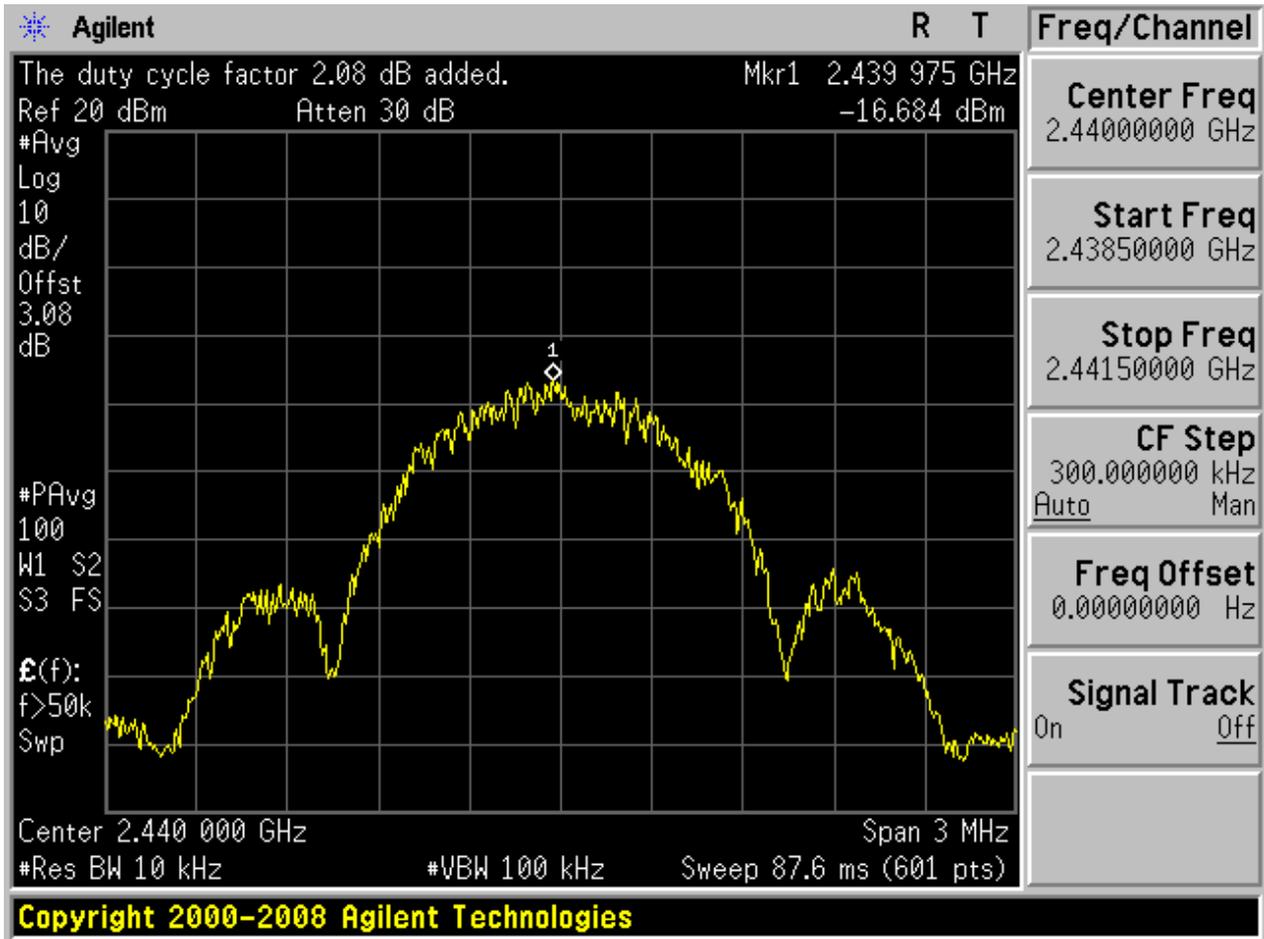
1.4.2 Part II - Test Plots

1.4.2.1 2.1 TM1_DH5_Ch0_L



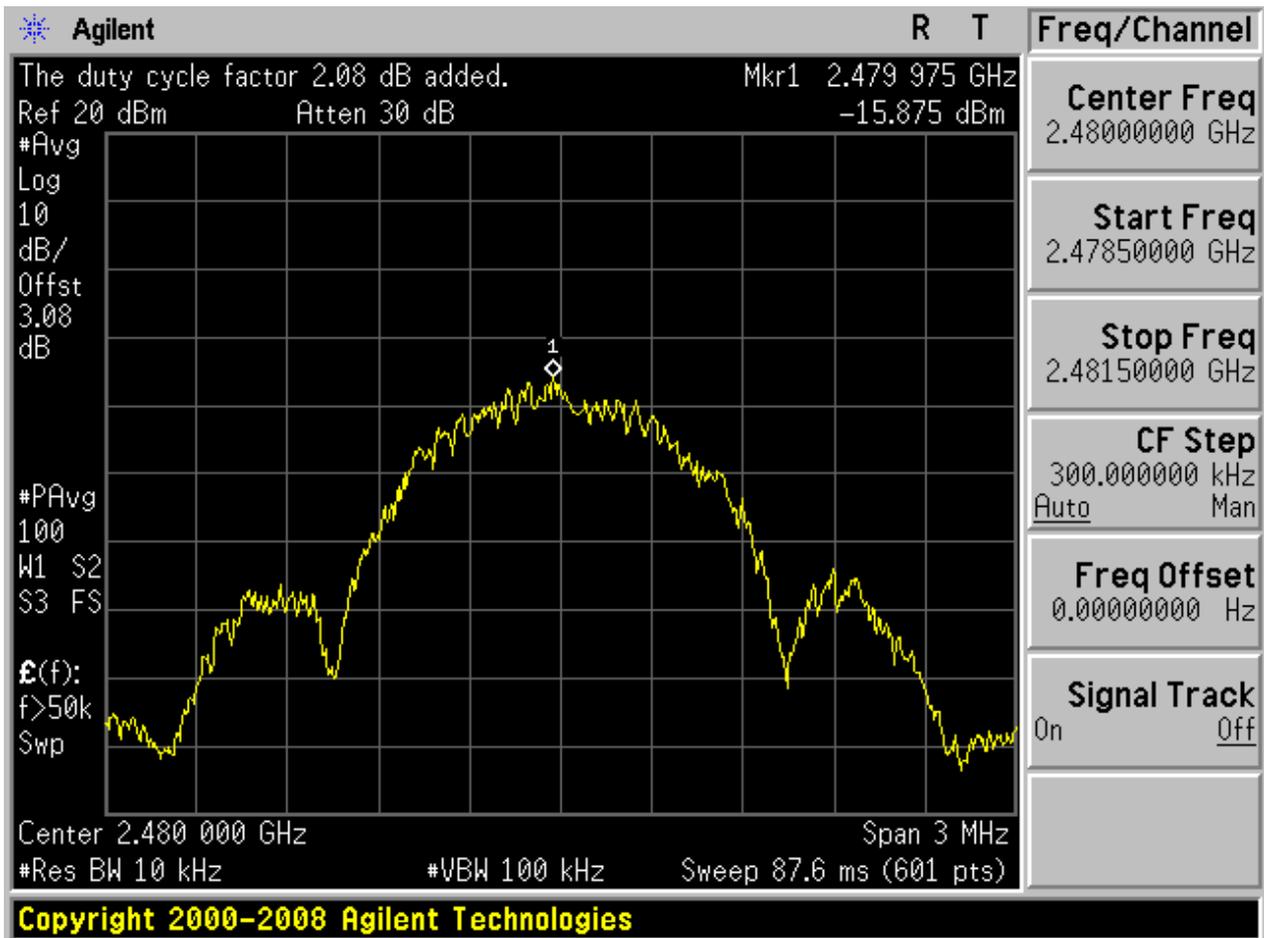


1.4.2.2 2.3 TM1_DH5_Ch19_M





1.4.2.3 2.5 TM1_DH5_Ch39_H





1.5 Appendix E: Band Edges Compliance

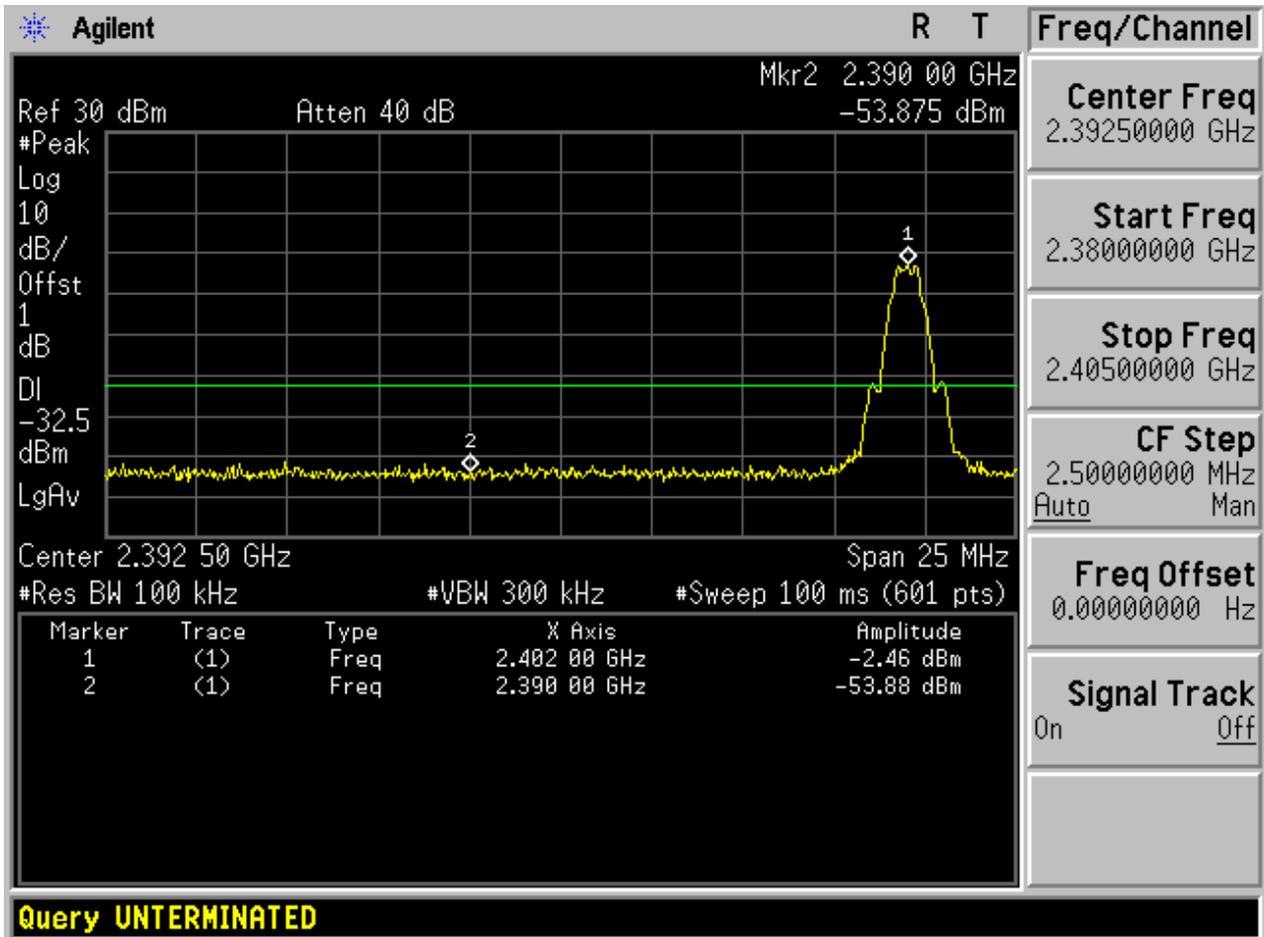
1.5.1 Part I - Test Results

Test Mode	Test Channel	Frequency [MHz]	Carrier Power[dBm]	Max.Spurious Level[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-2.46	-53.88	pass
TM1_DH5_Ch39	H	2480	-1.79	-54.06	pass



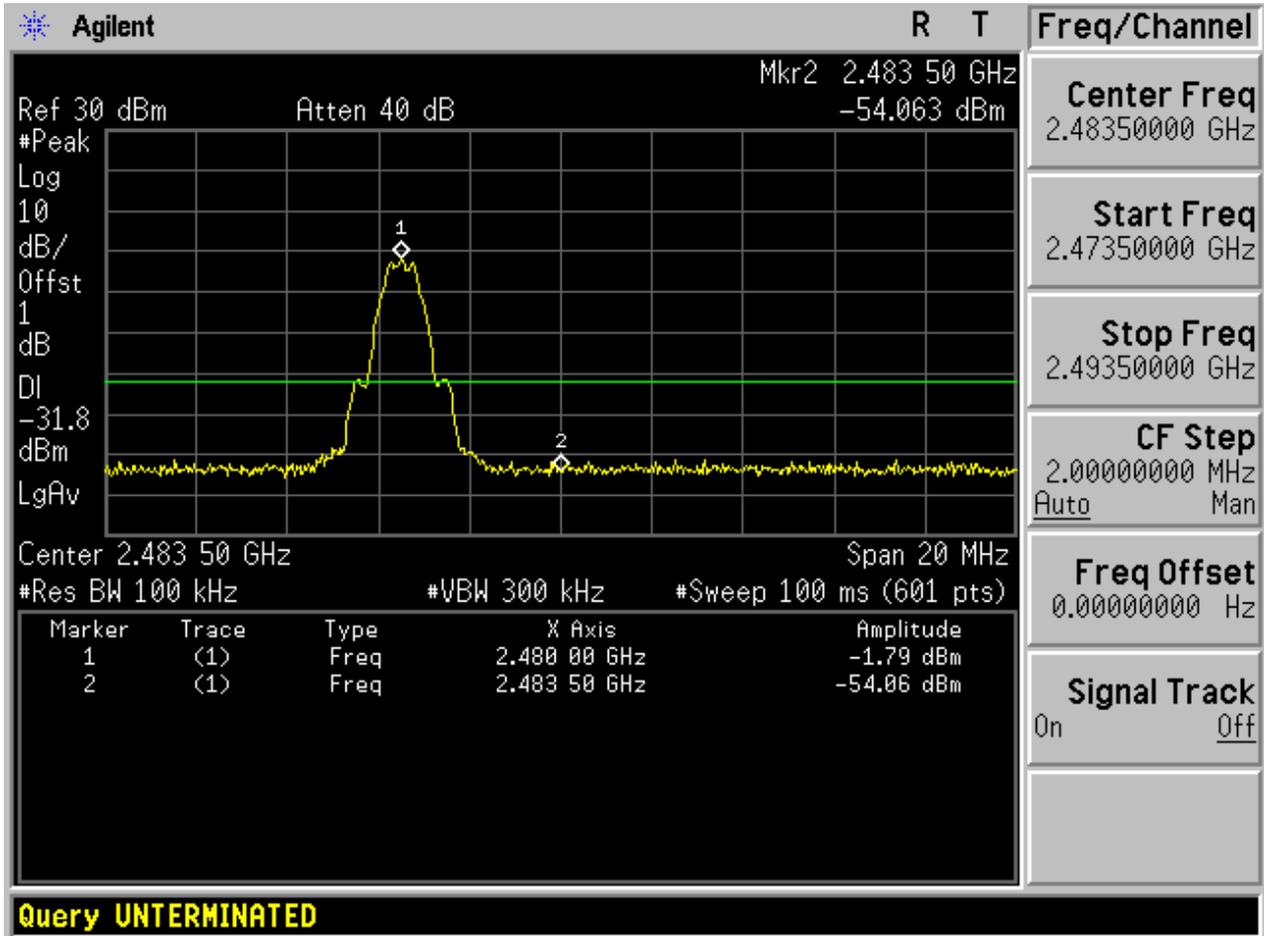
1.5.2 Part II - Test Plots

1.5.2.1 2.1 TM1_DH5_Ch0_L





1.5.2.2 2.3 TM1_DH5_Ch39_H



1.6 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" 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".

1.6.1 Part I - Test Results

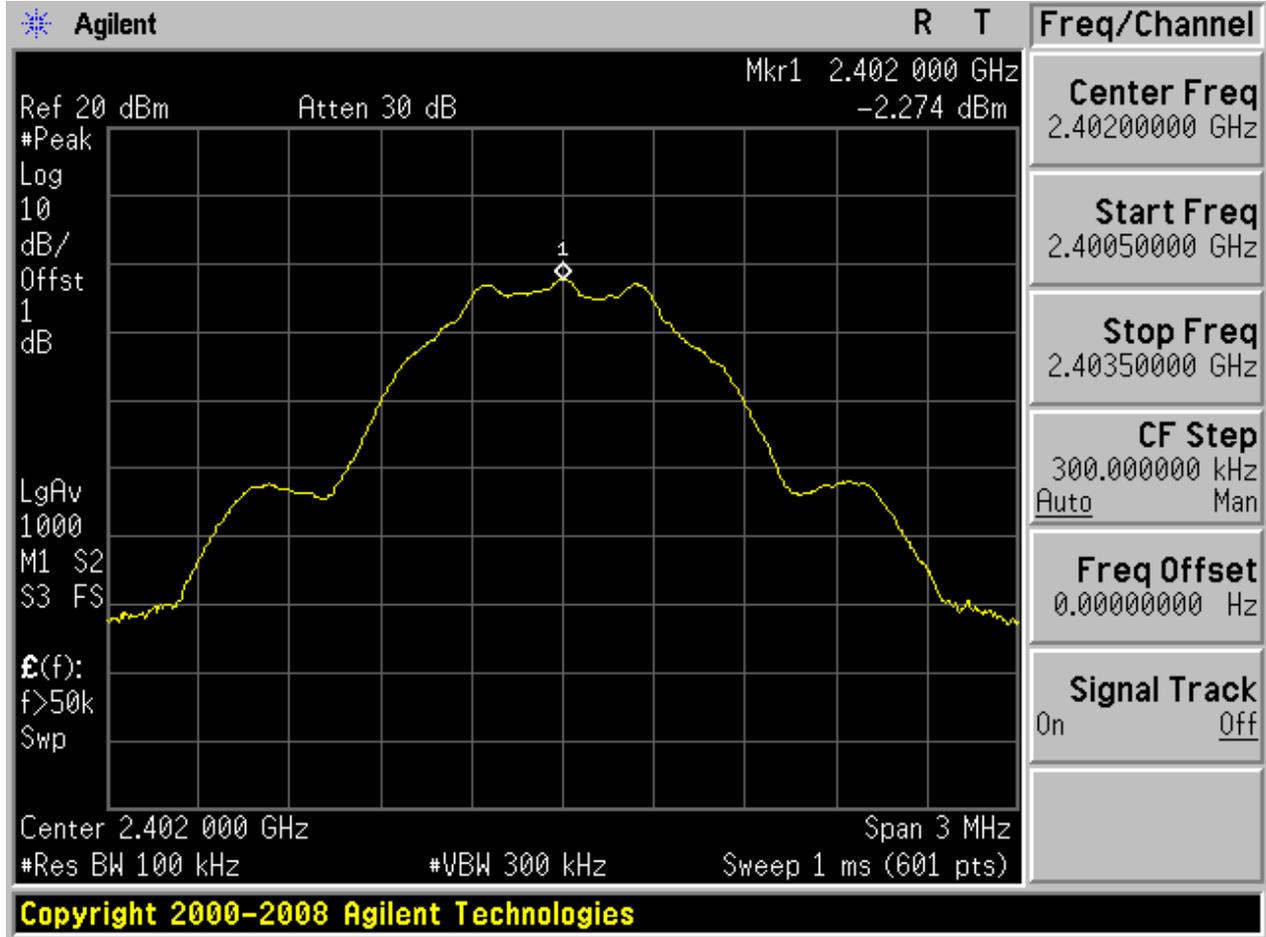
Test Mode	Test Channel	Frequency[MHz]	Pref[dBm]	Puw[dBm]	Verdict
TM1_DH5_Ch0	L	2402	-2.27	<limit	pass
TM1_DH5_Ch19	M	2440	-1.93	<limit	pass
TM1_DH5_Ch39	H	2480	-1.70	<limit	pass



1.6.2 Part II - Test Plots

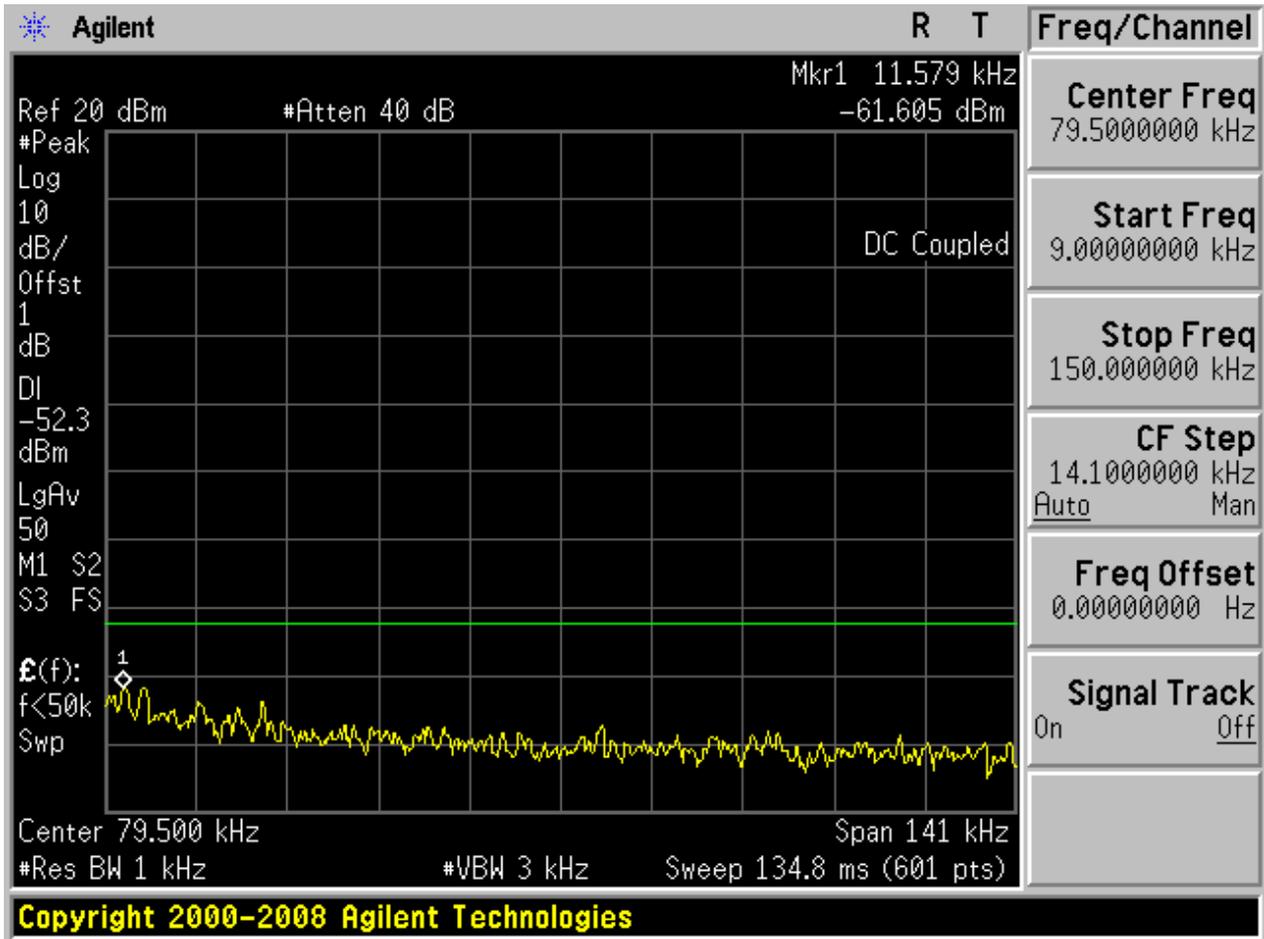
1.6.2.1 2.1 TM1_DH5_Ch0_L

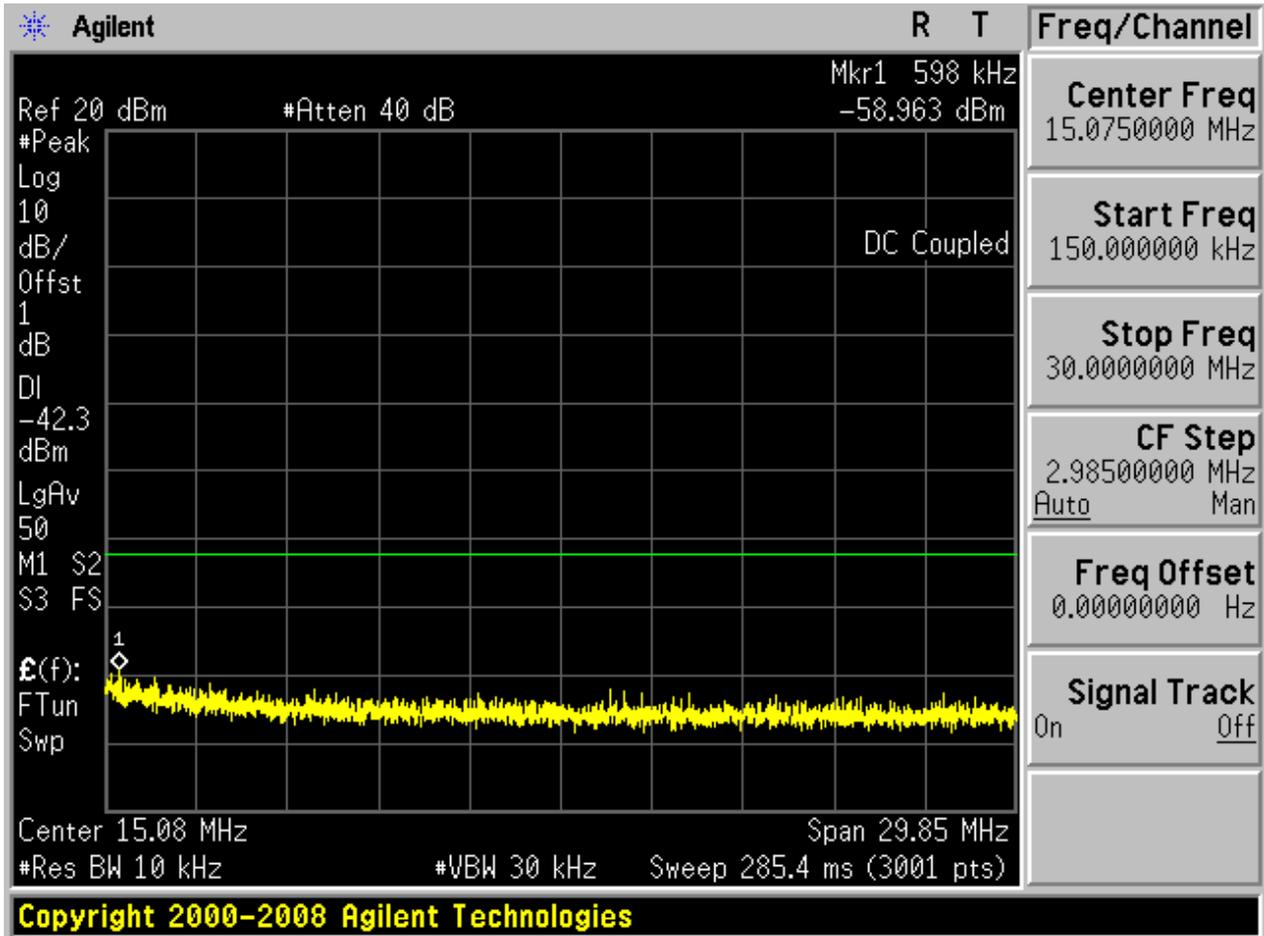
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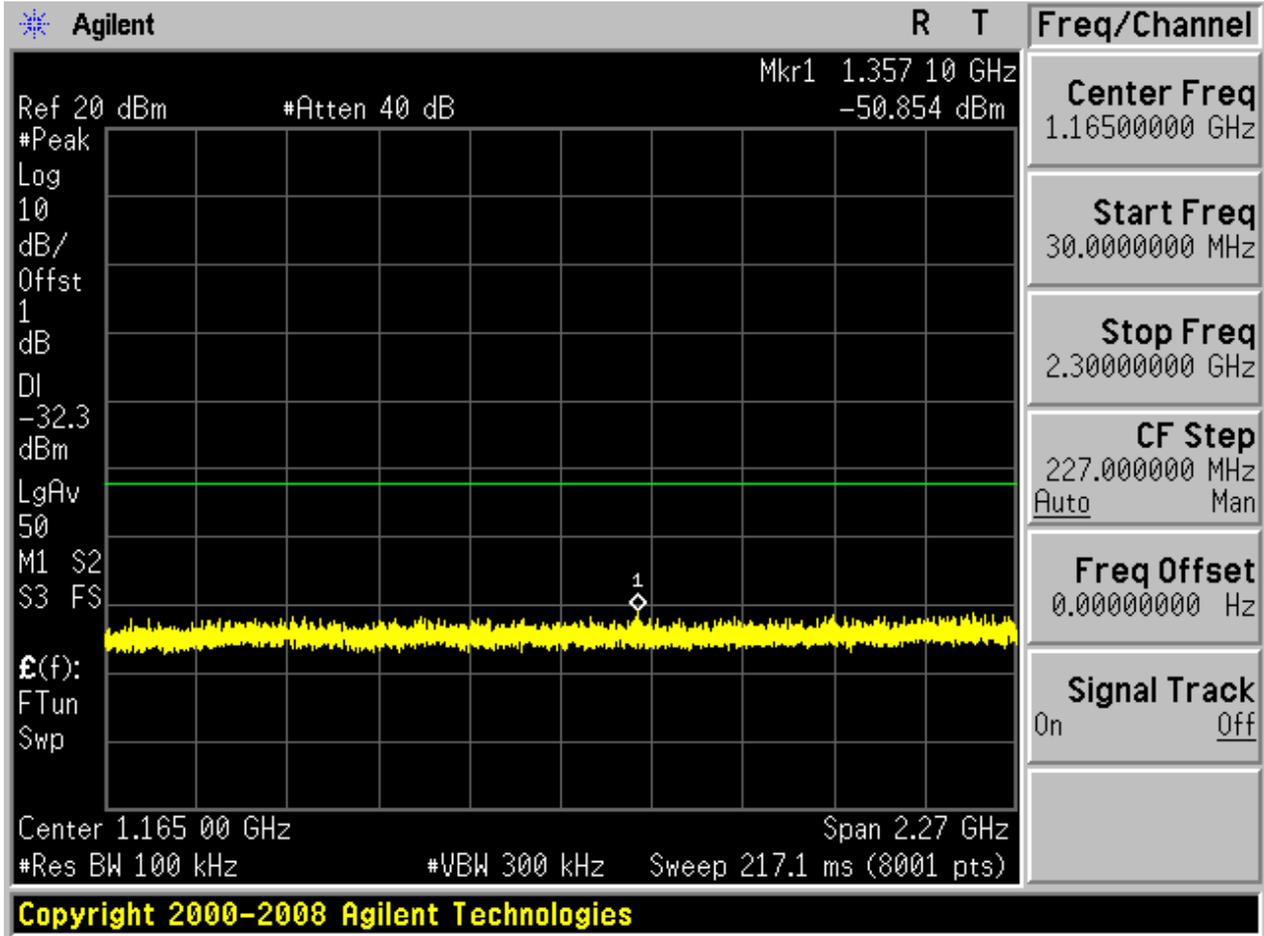


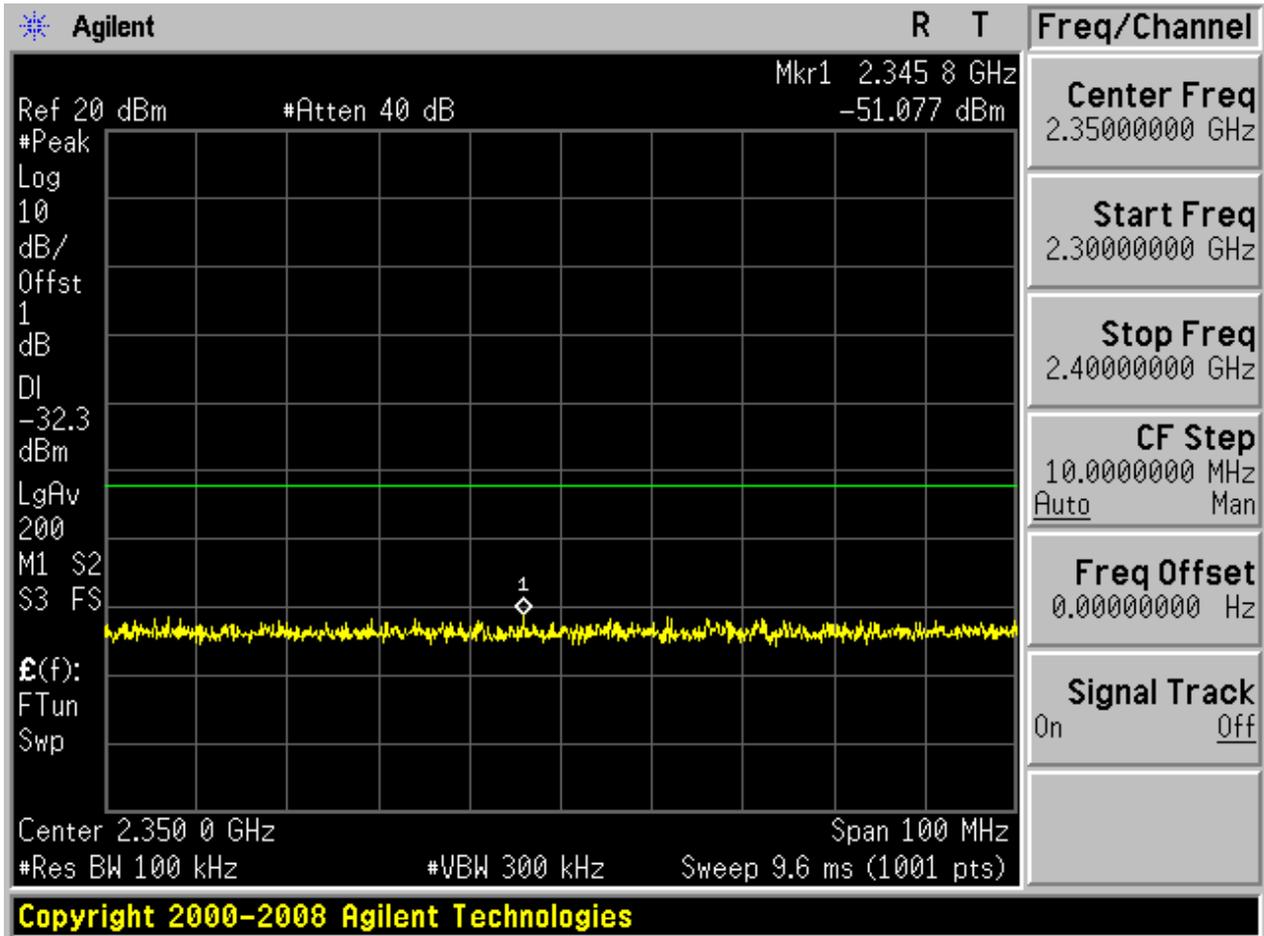


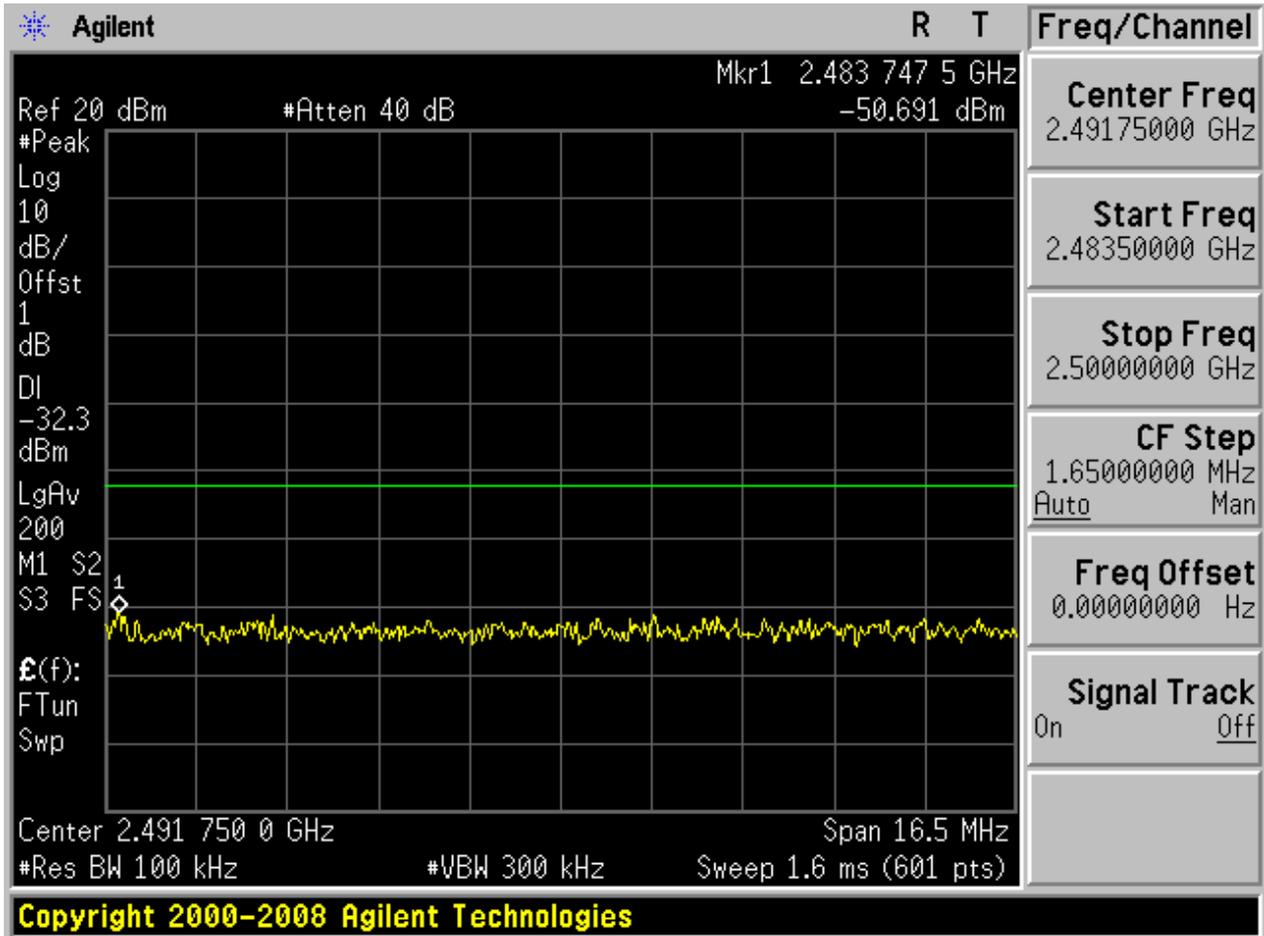
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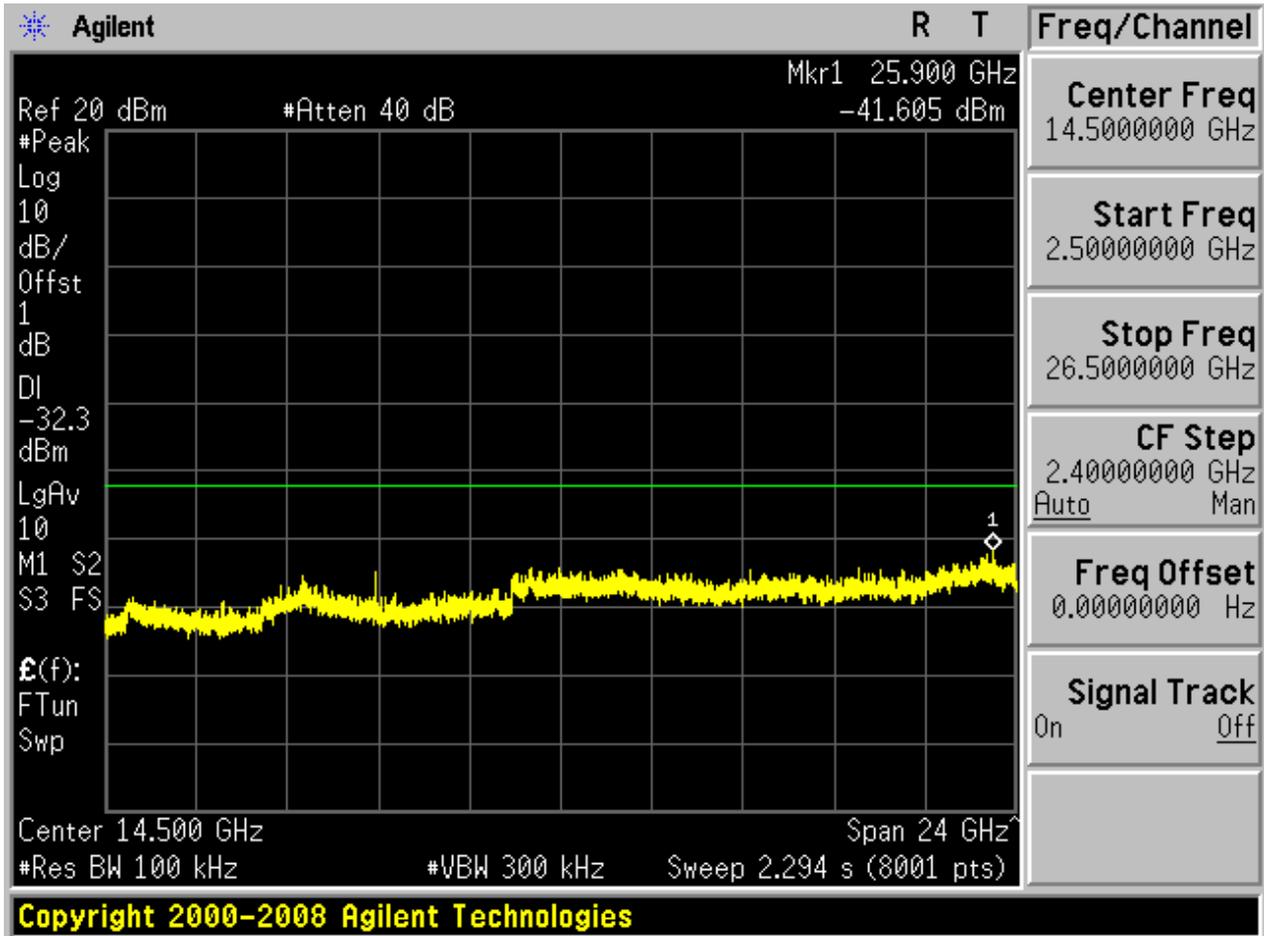








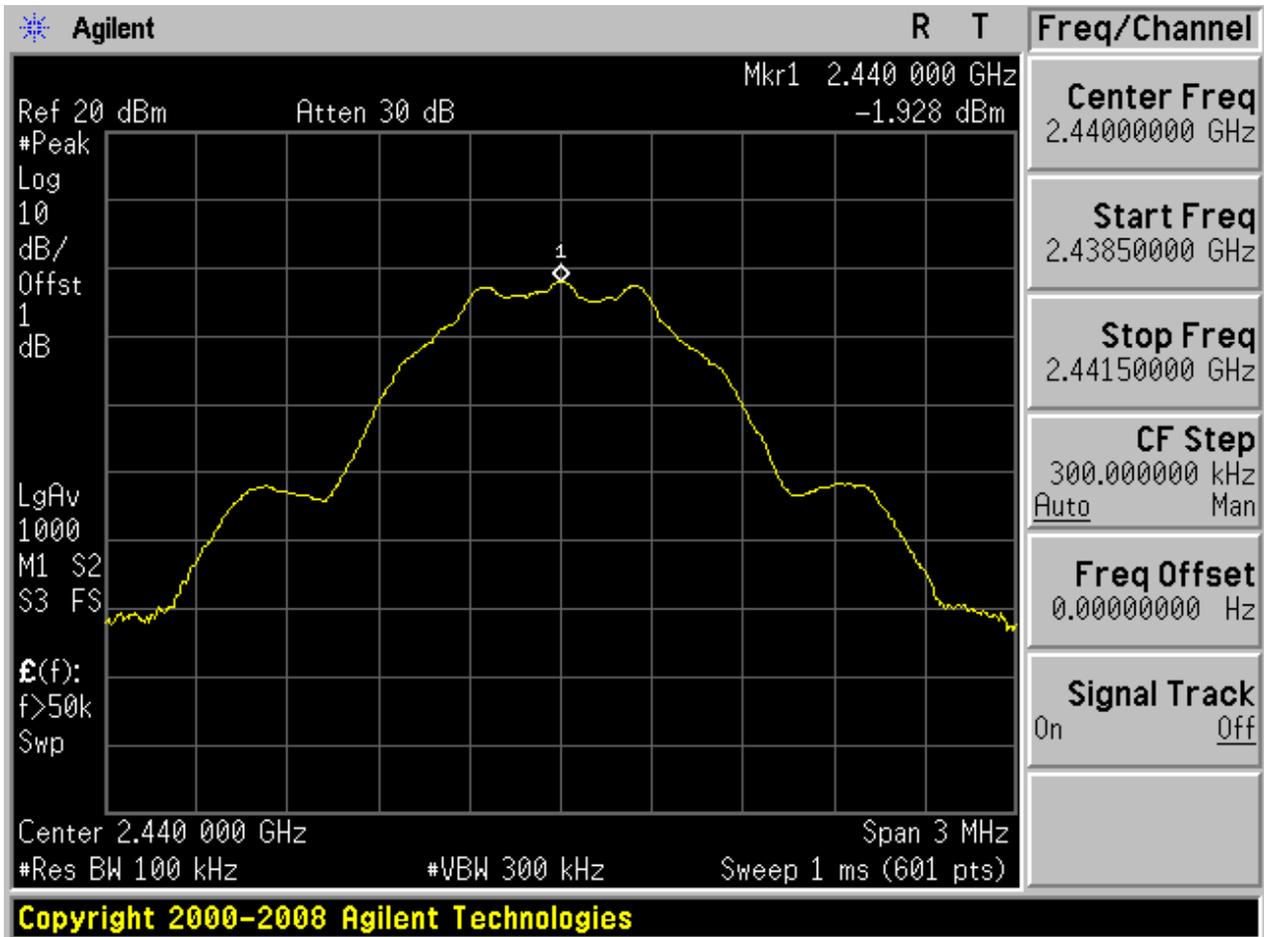






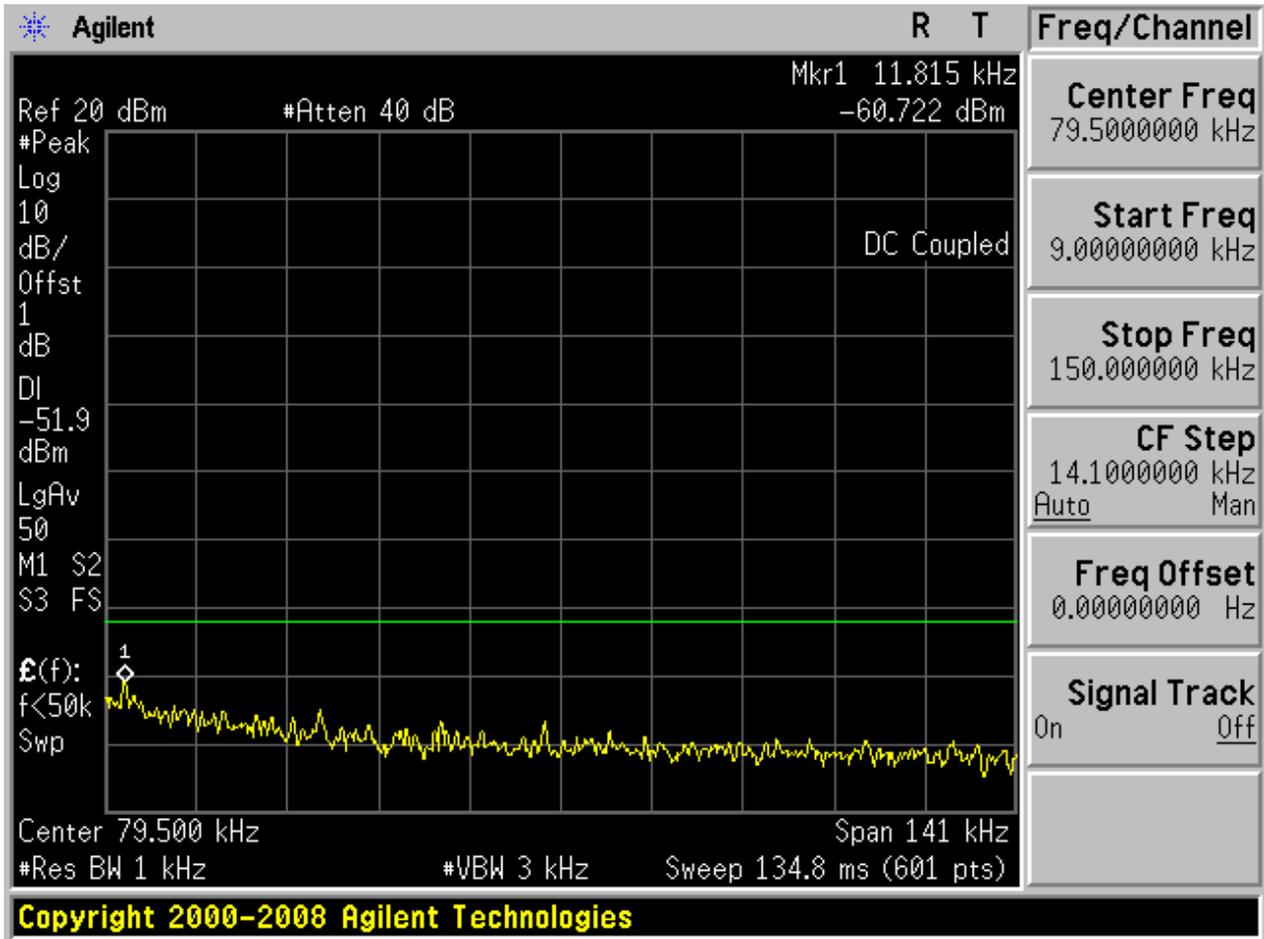
1.6.2.2 2.3 TM1_DH5_Ch19_M

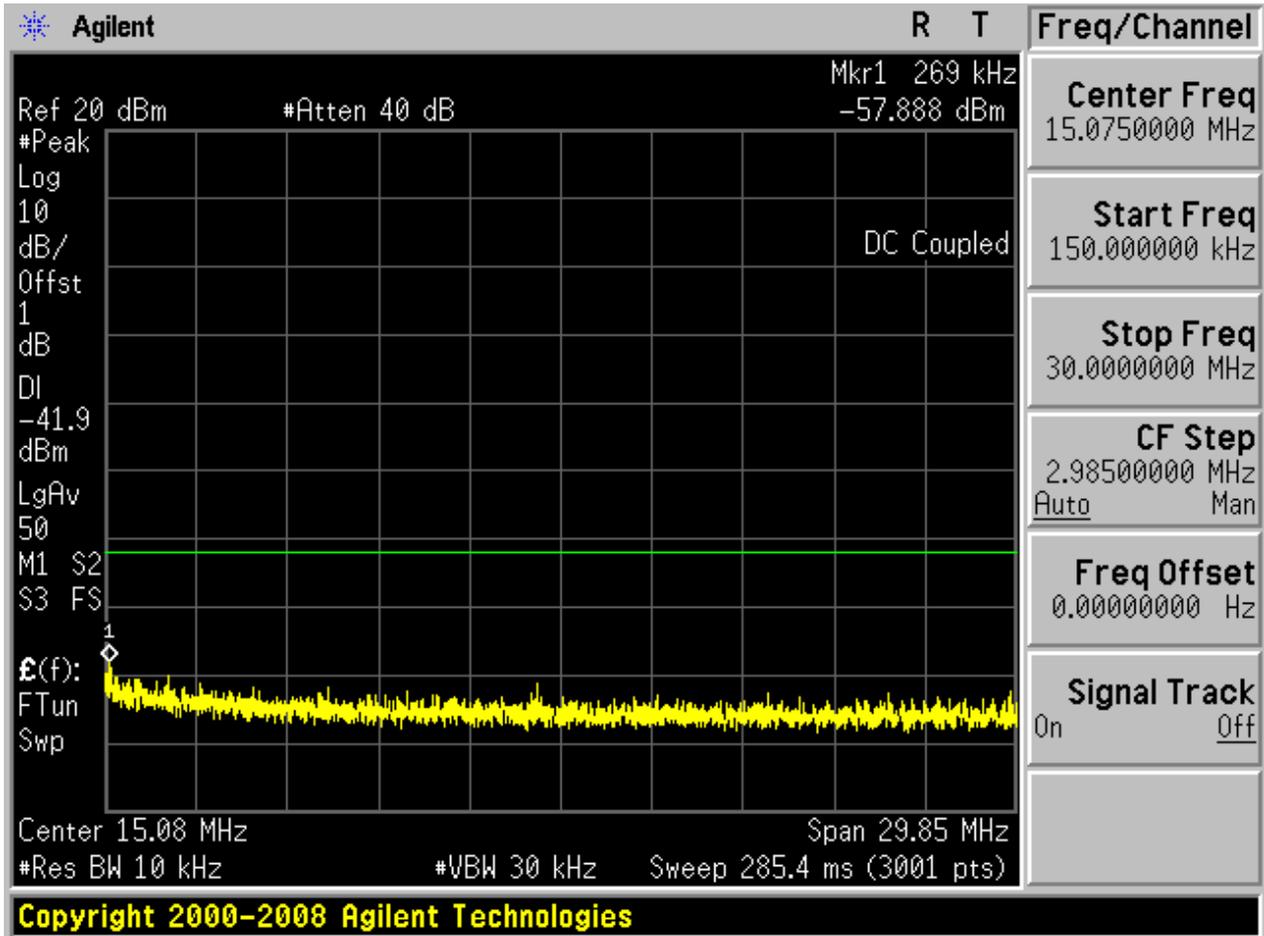
1.6.2.2.1 Pref:

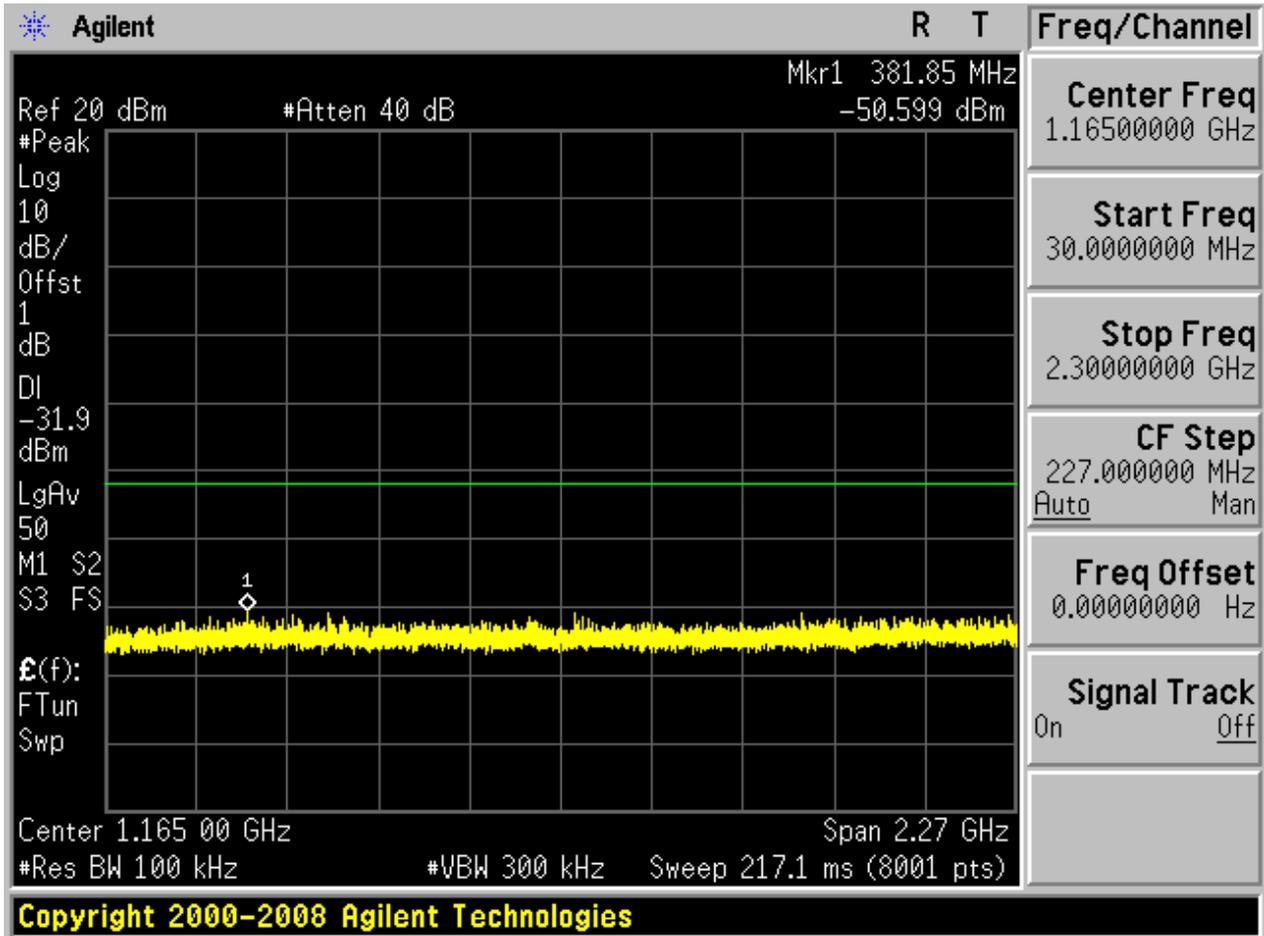


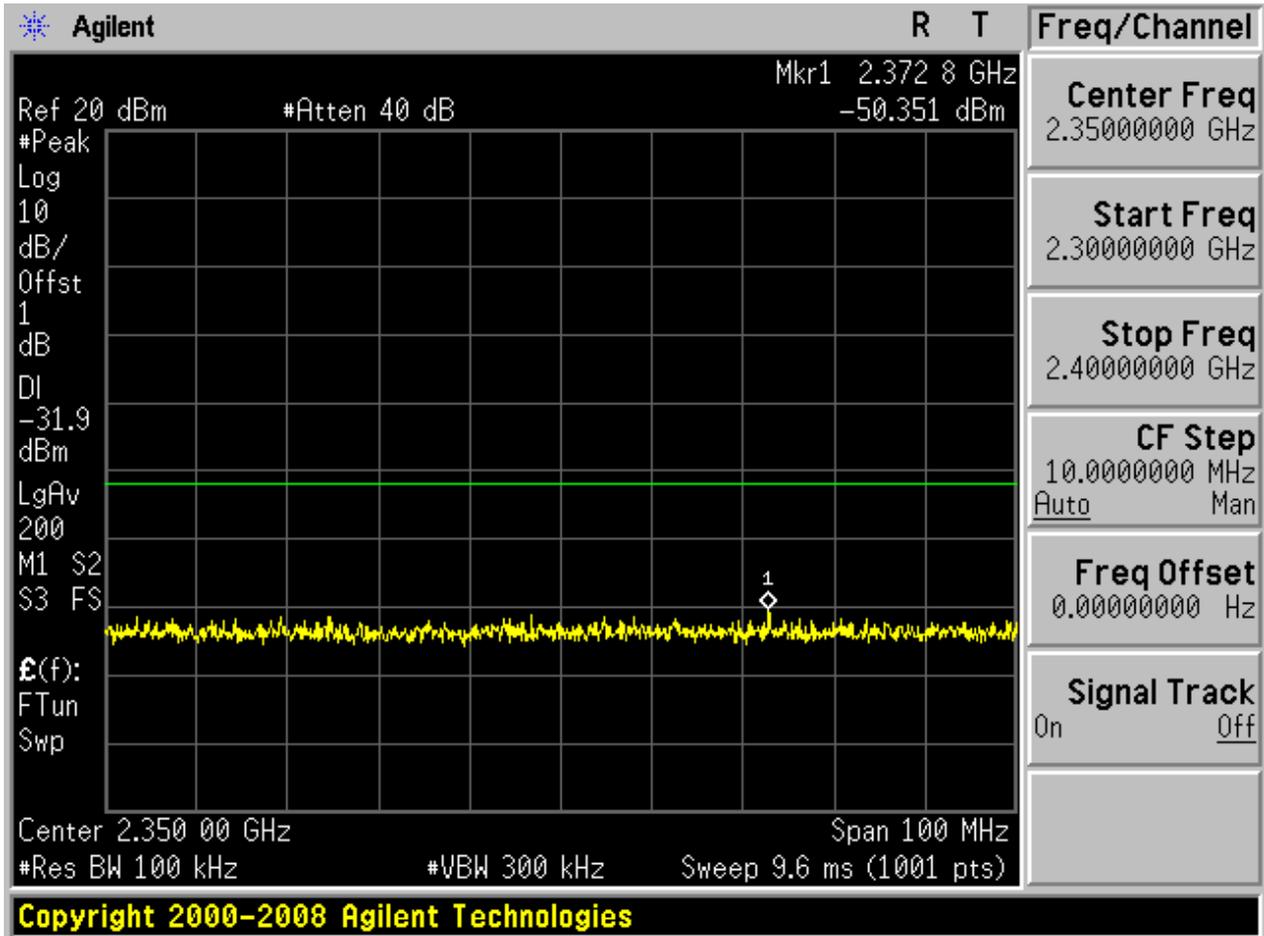


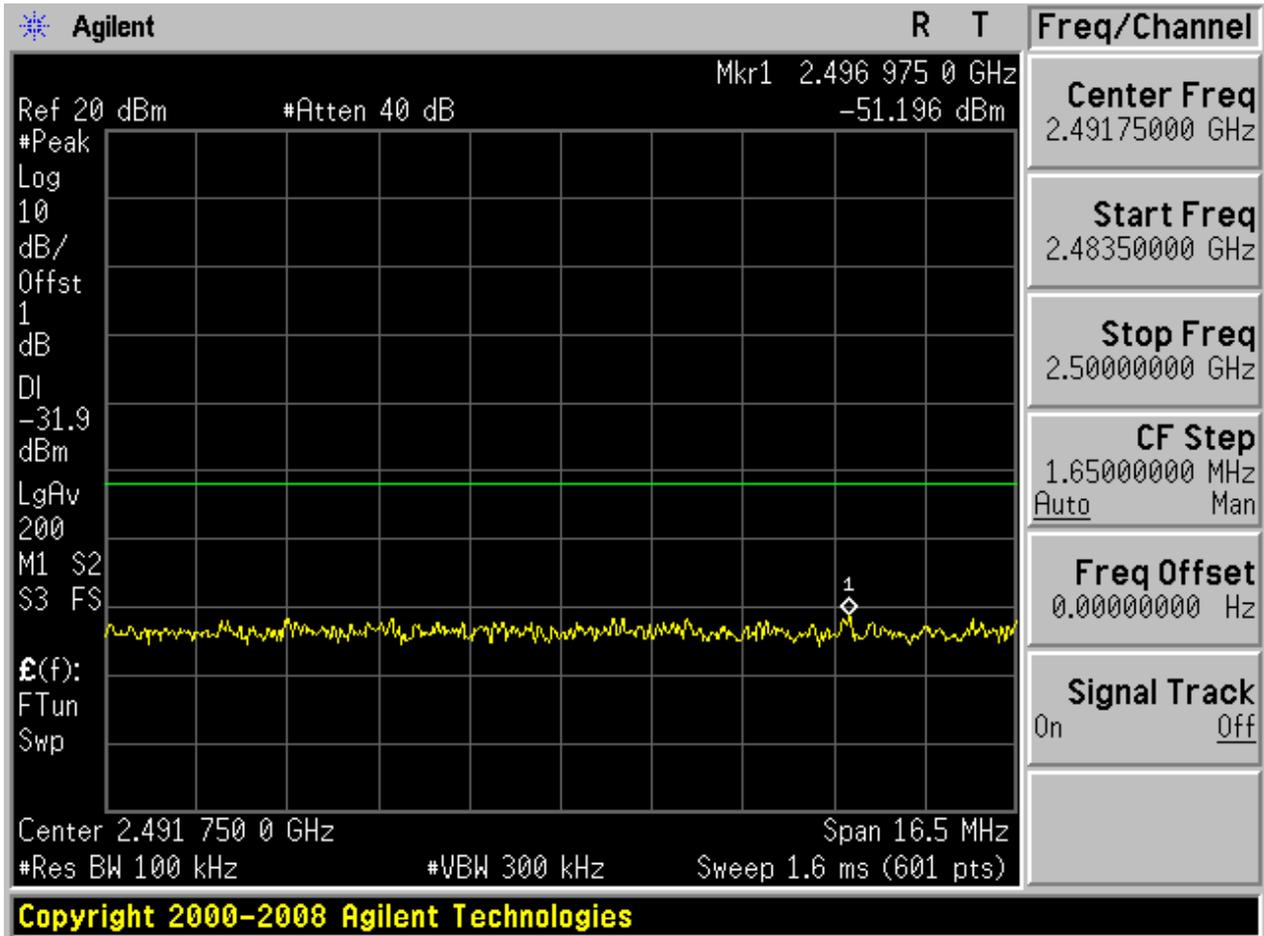
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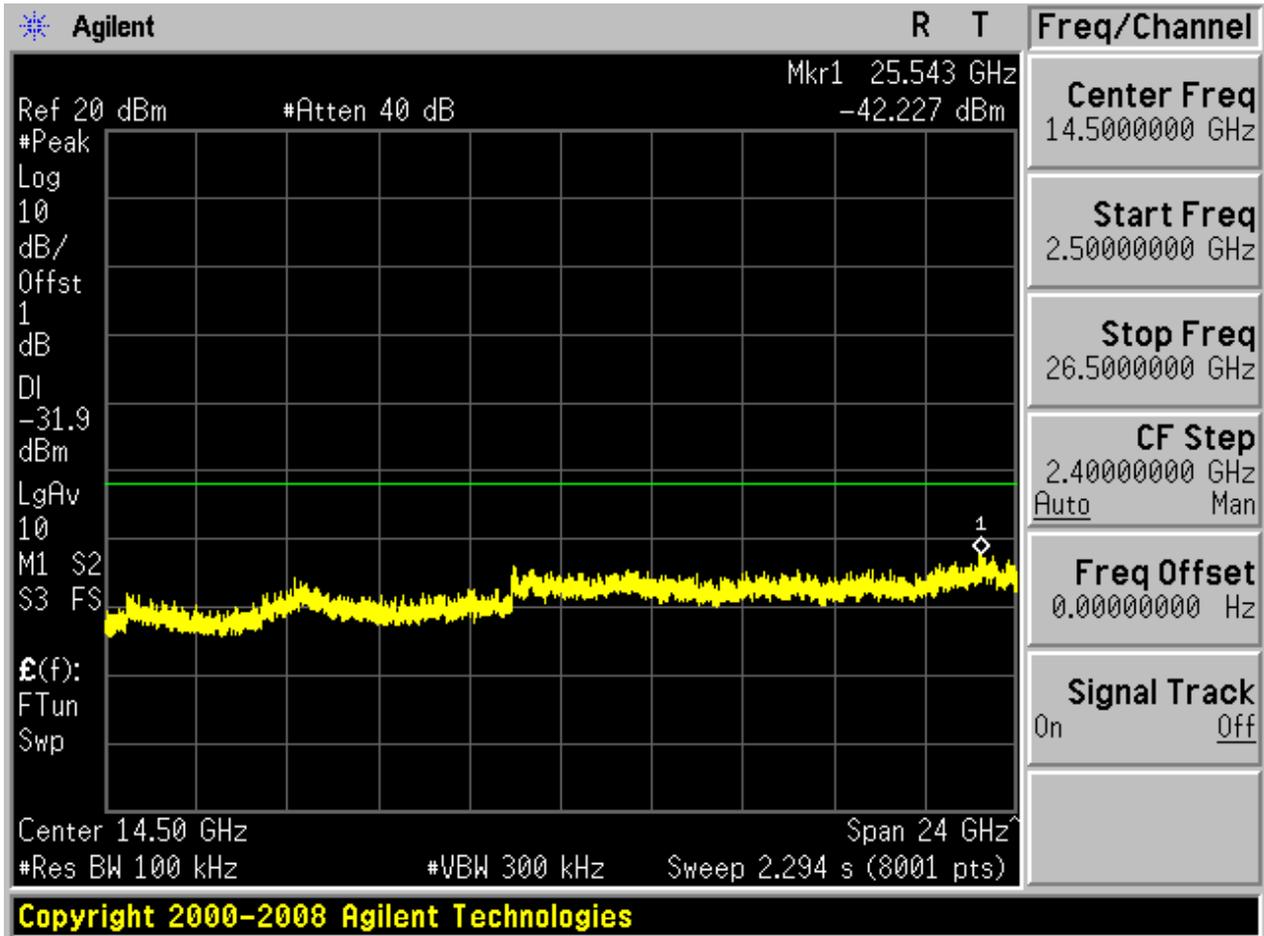








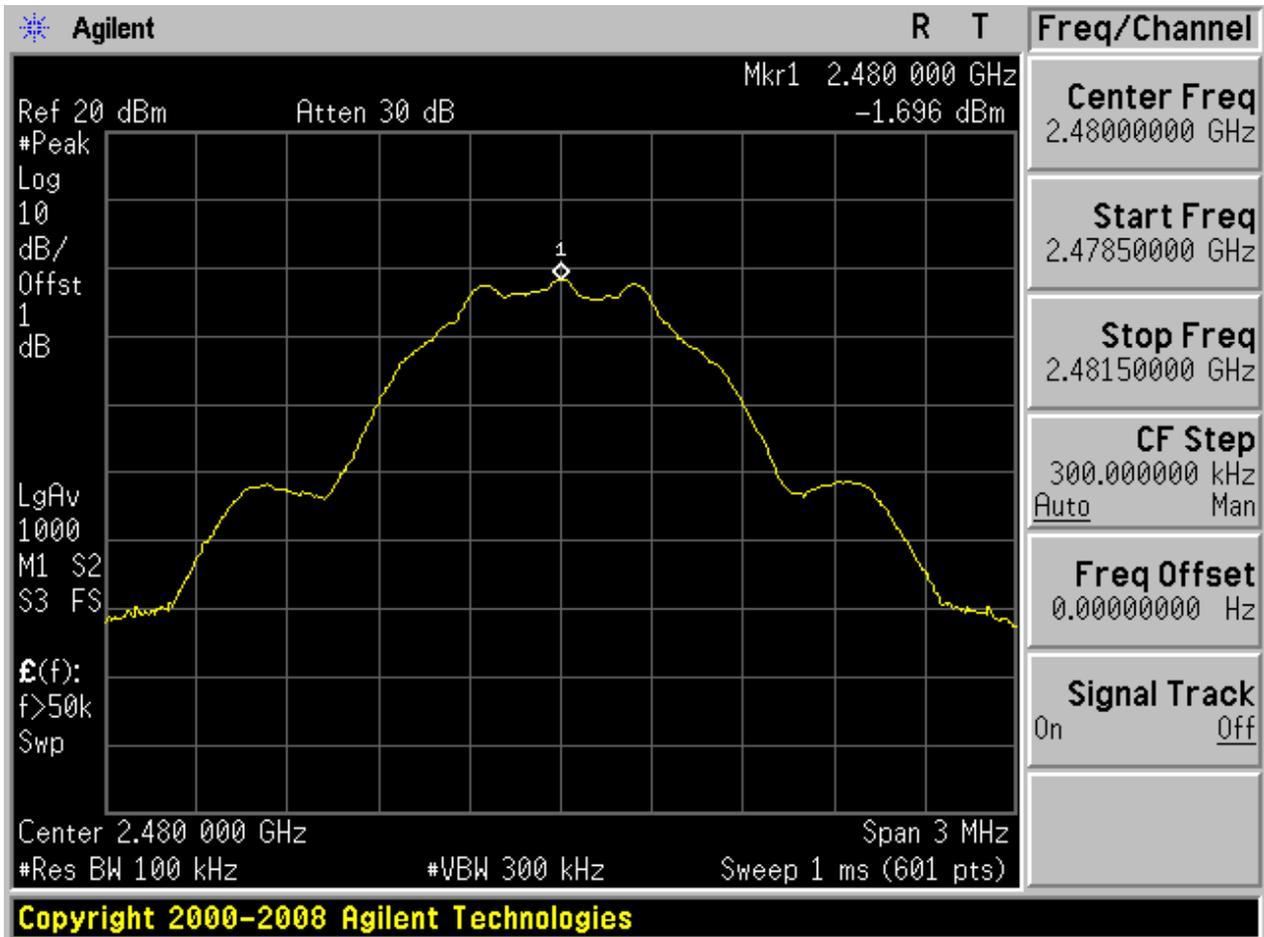






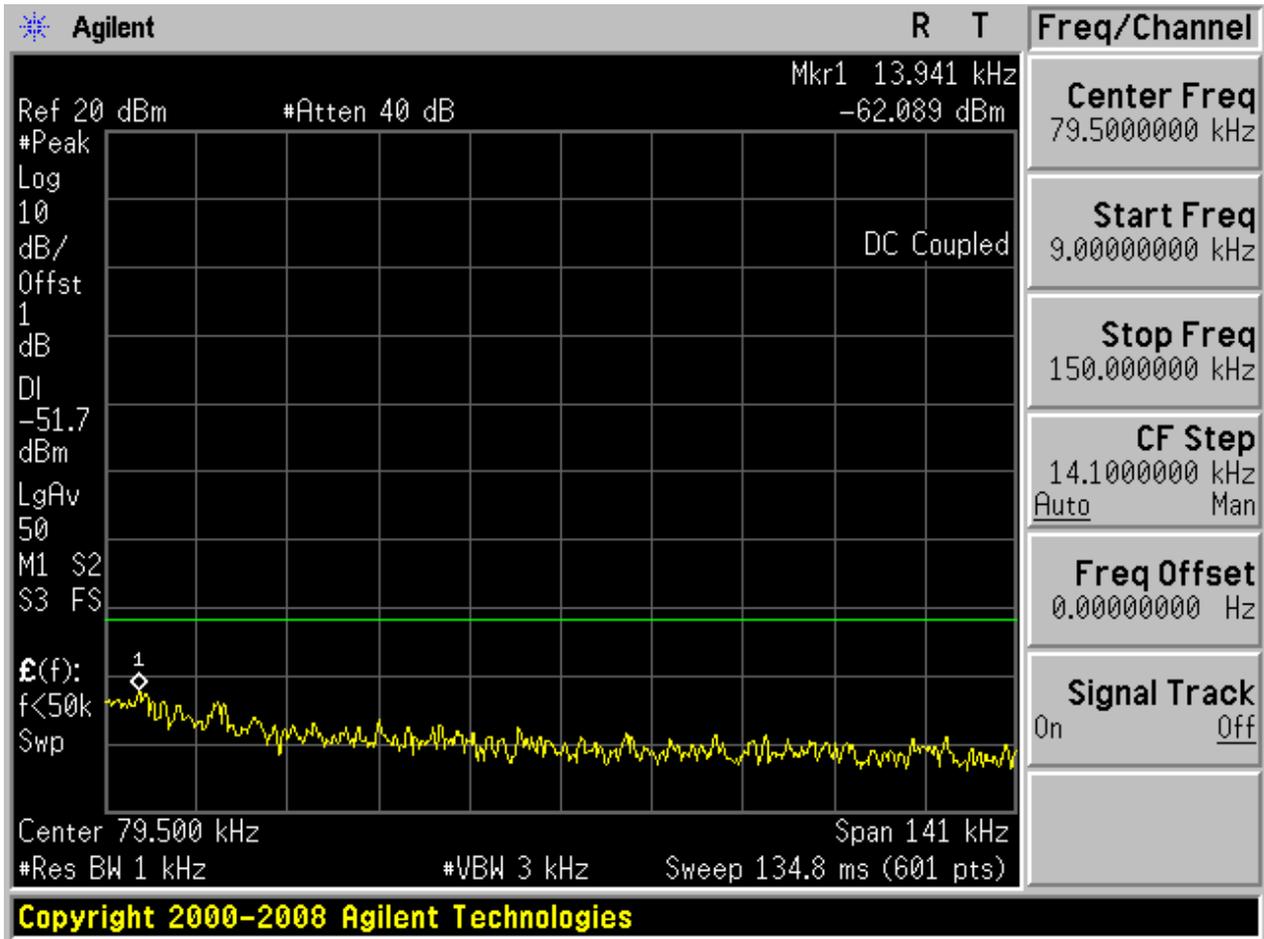
1.6.2.3 2.5 TM1_DH5_Ch39_H

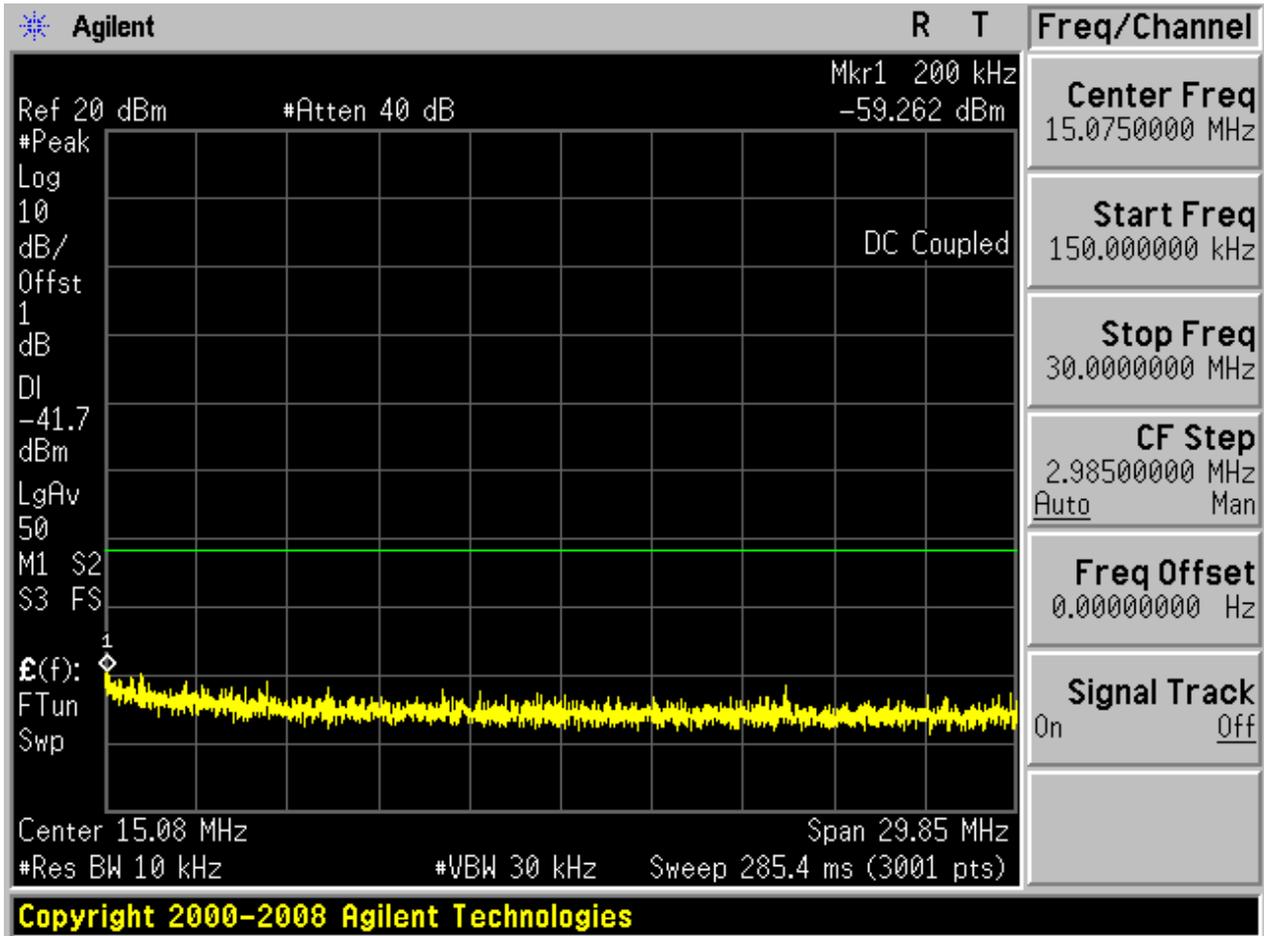
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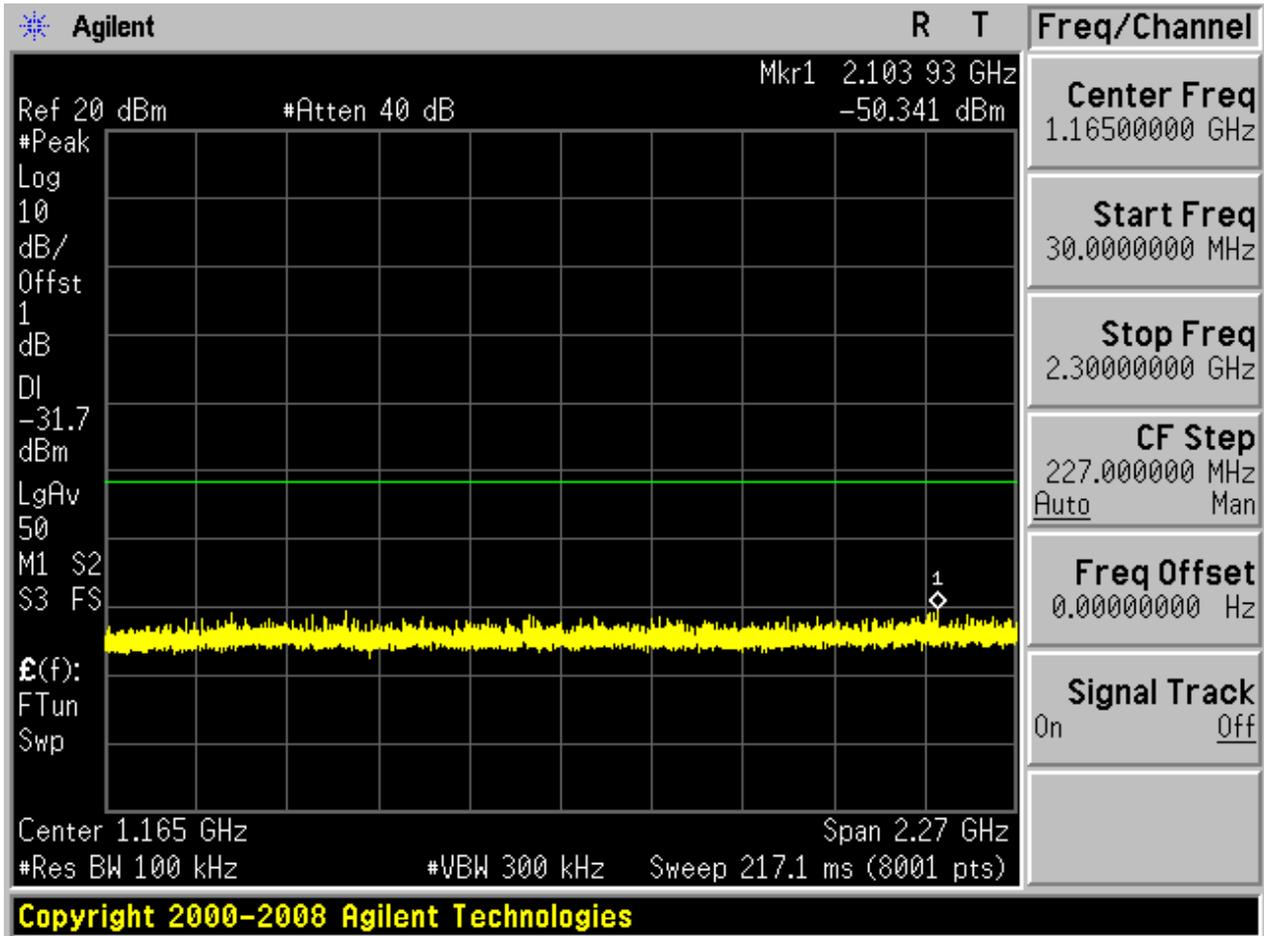


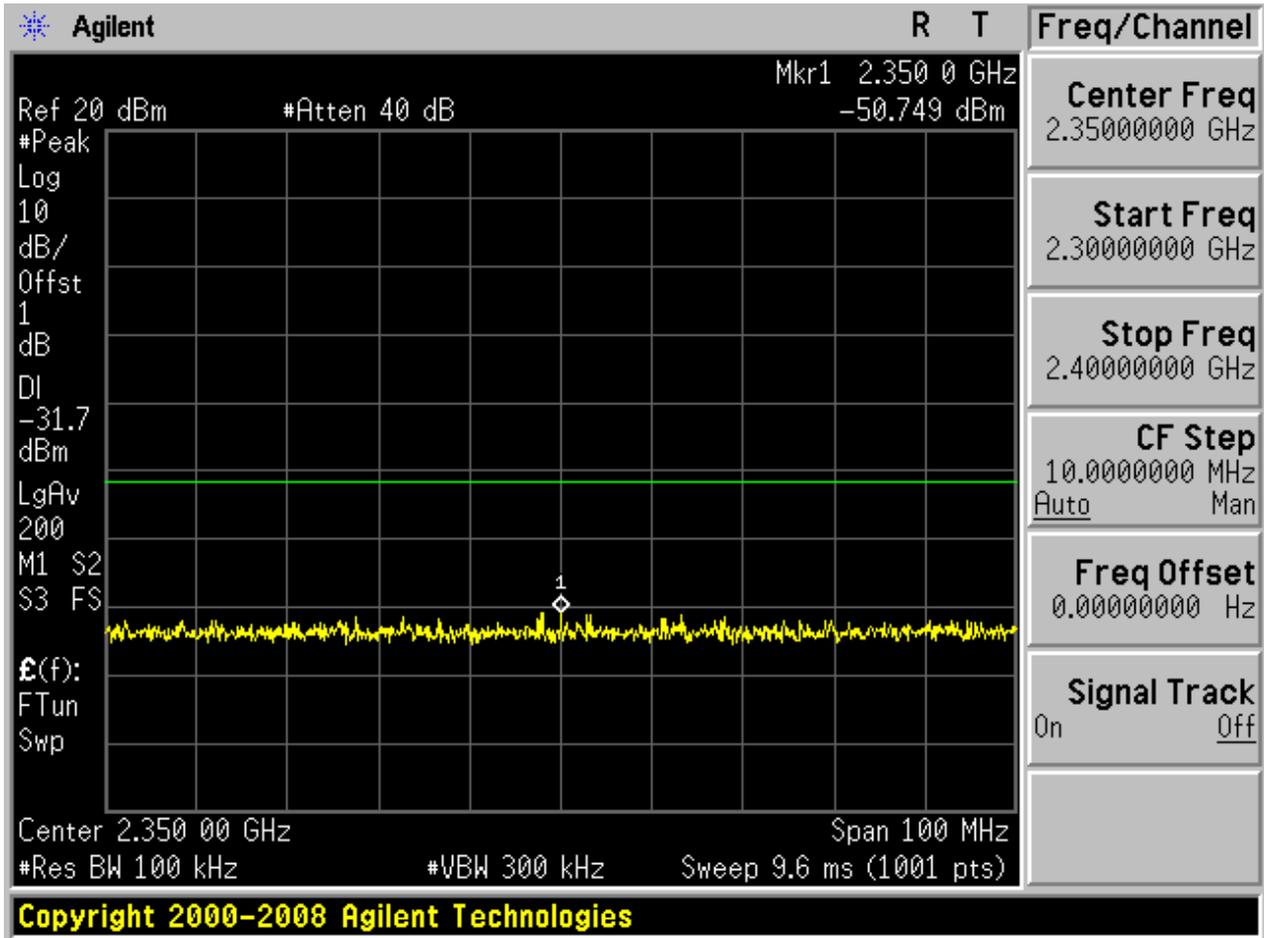


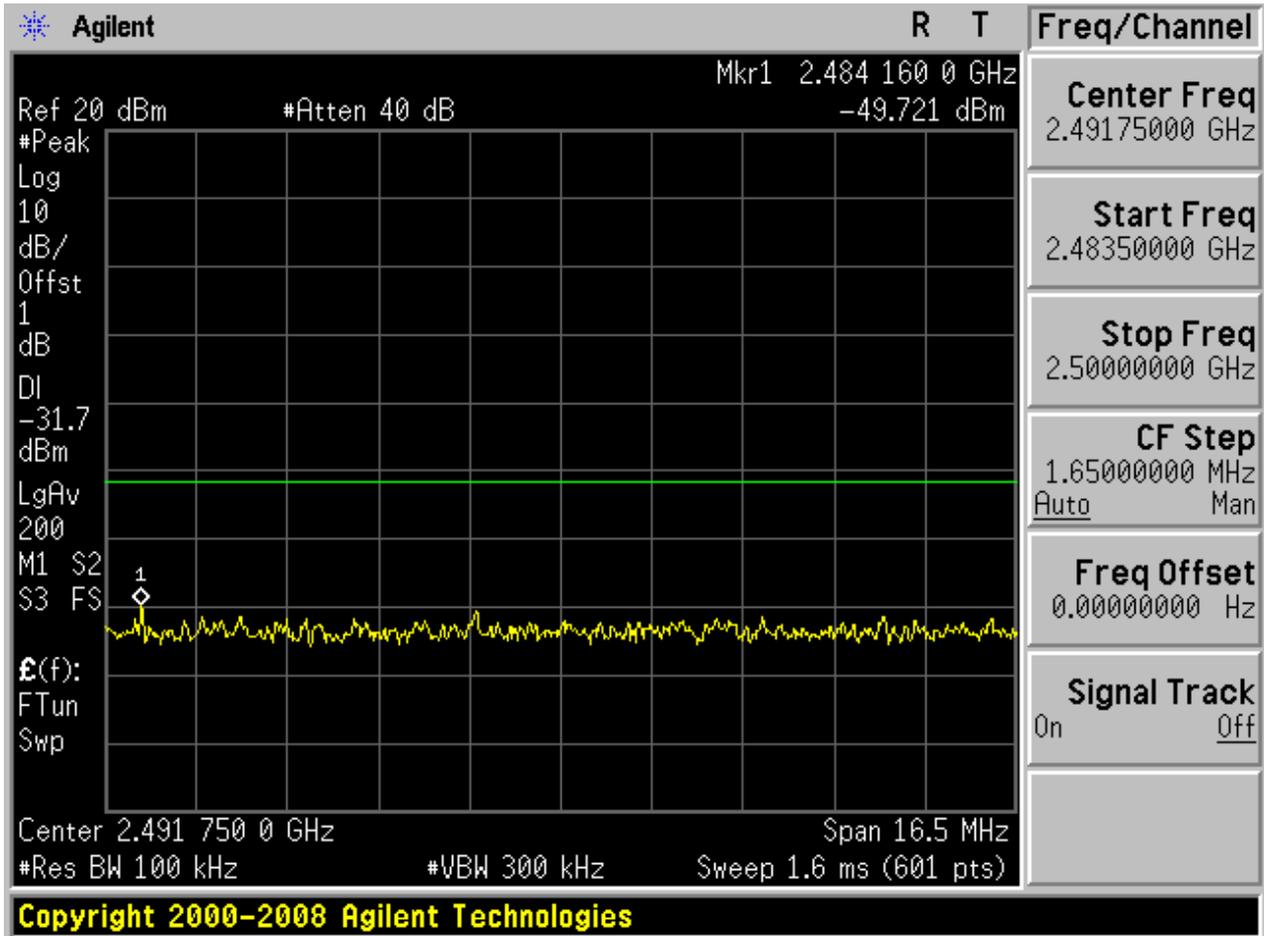
1.6.2.3.2 Puw:

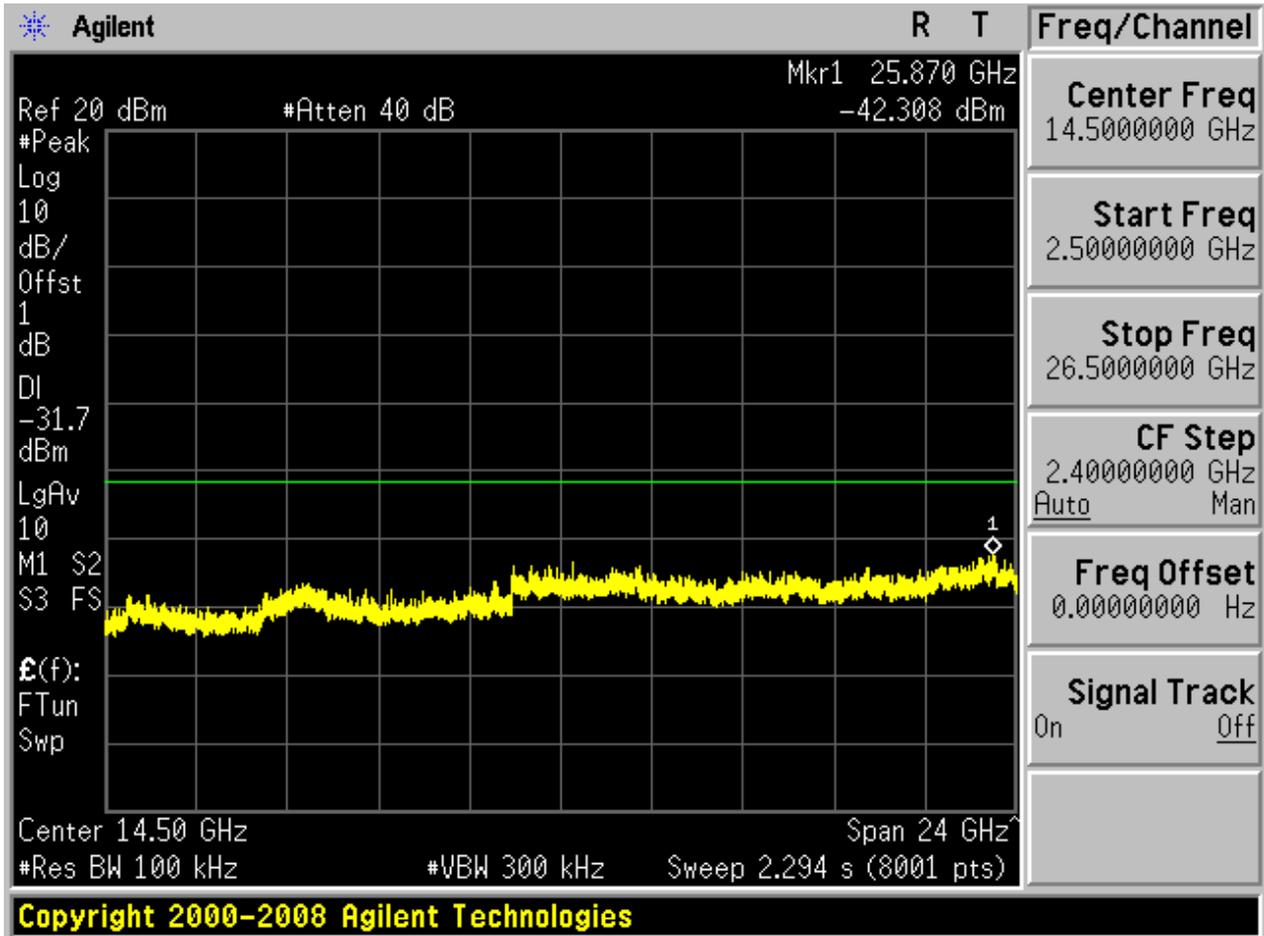














1.7 Appendix G: Radiated Spurious Emission & Spurious in Restricted Band

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

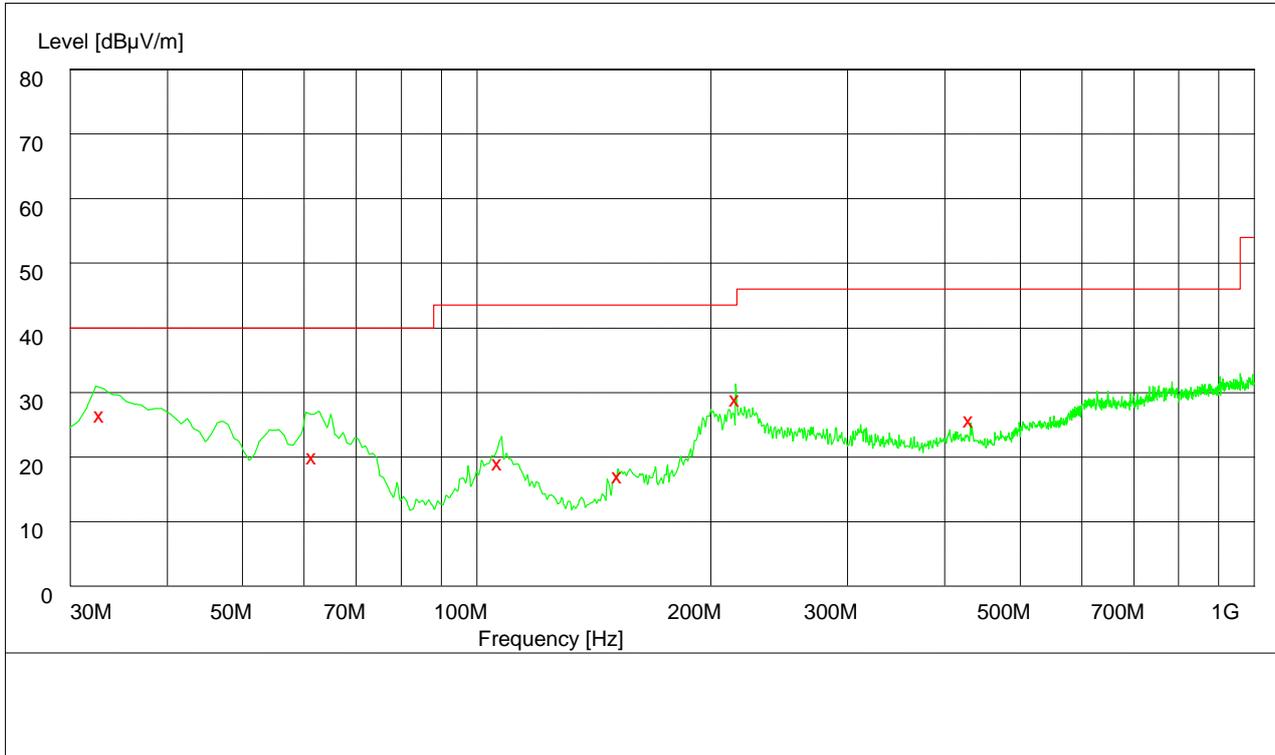
1.7.1 Part 1: Testing Range of “9 kHz to 30MHz”

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

1.7.2 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.

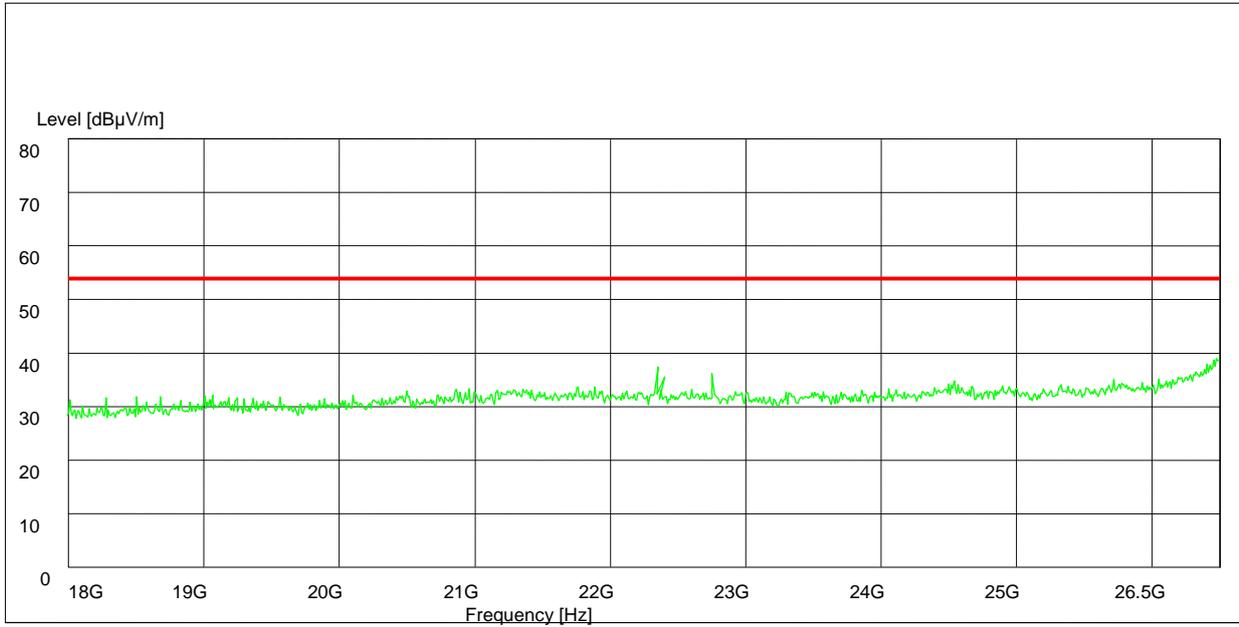
Note 2: The emissions in this range are mainly from the Platform Device (Notepad PC and its ancillary components).



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
32.928000	28.00	14.1	40.0	12.0	103.0	360.00	VERTICAL
61.692000	21.50	12.6	40.0	18.5	100.0	78.00	VERTICAL
106.820000	20.50	13.0	43.5	23.0	106.0	0.00	VERTICAL
152.612000	18.50	10.0	43.5	25.0	103.0	92.00	VERTICAL
216.004000	30.40	12.9	46.0	15.6	100.0	0.00	VERTICAL
432.028000	27.20	18.1	46.0	18.8	100.0	287.00	HORIZONTAL

1.7.3Part 3: Testing Range of “18 GHz to 26.5 GHz”

Note: No peak found in pre- test.

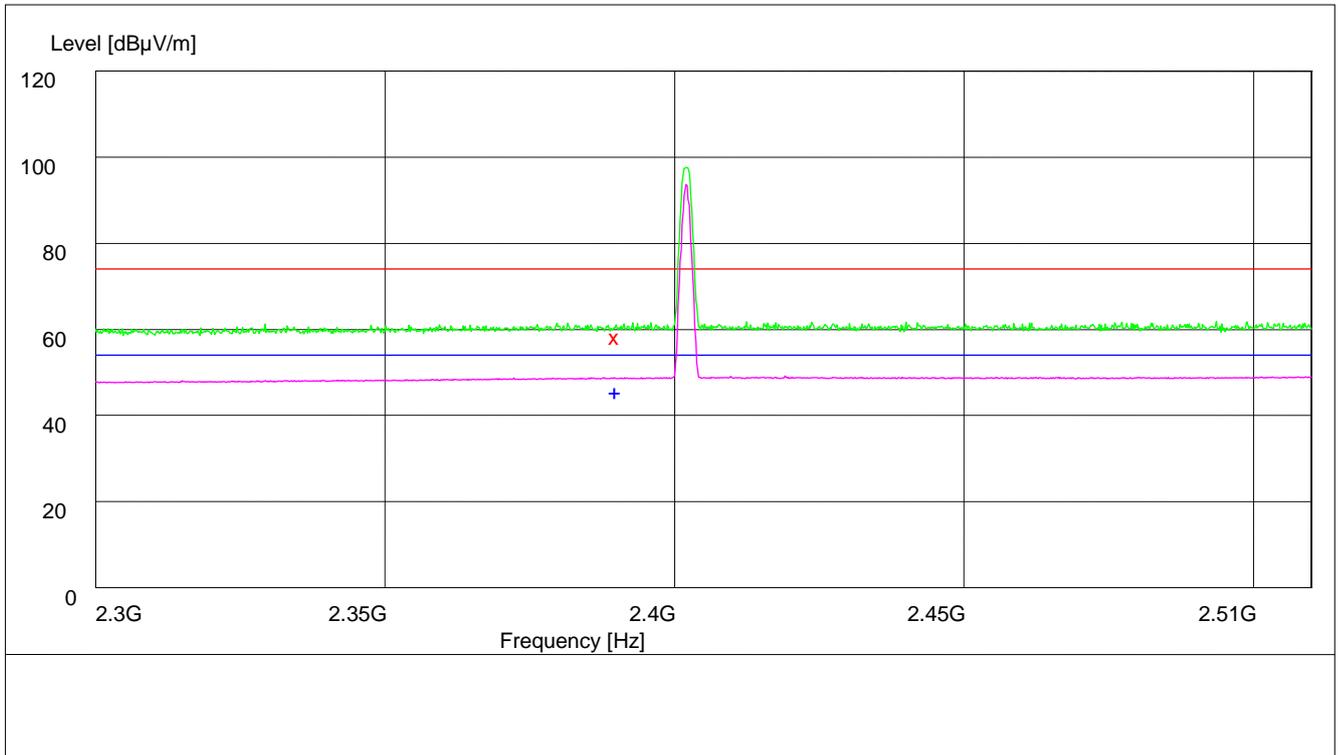


1.7.4Part 4: Testing Range of “2.3GHz to 2.5GHz”

- 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.

1.7.4.1 Test Mode:

1.7.4.1.1 Channel 00



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

MEASUREMENT RESULT: PK Detector

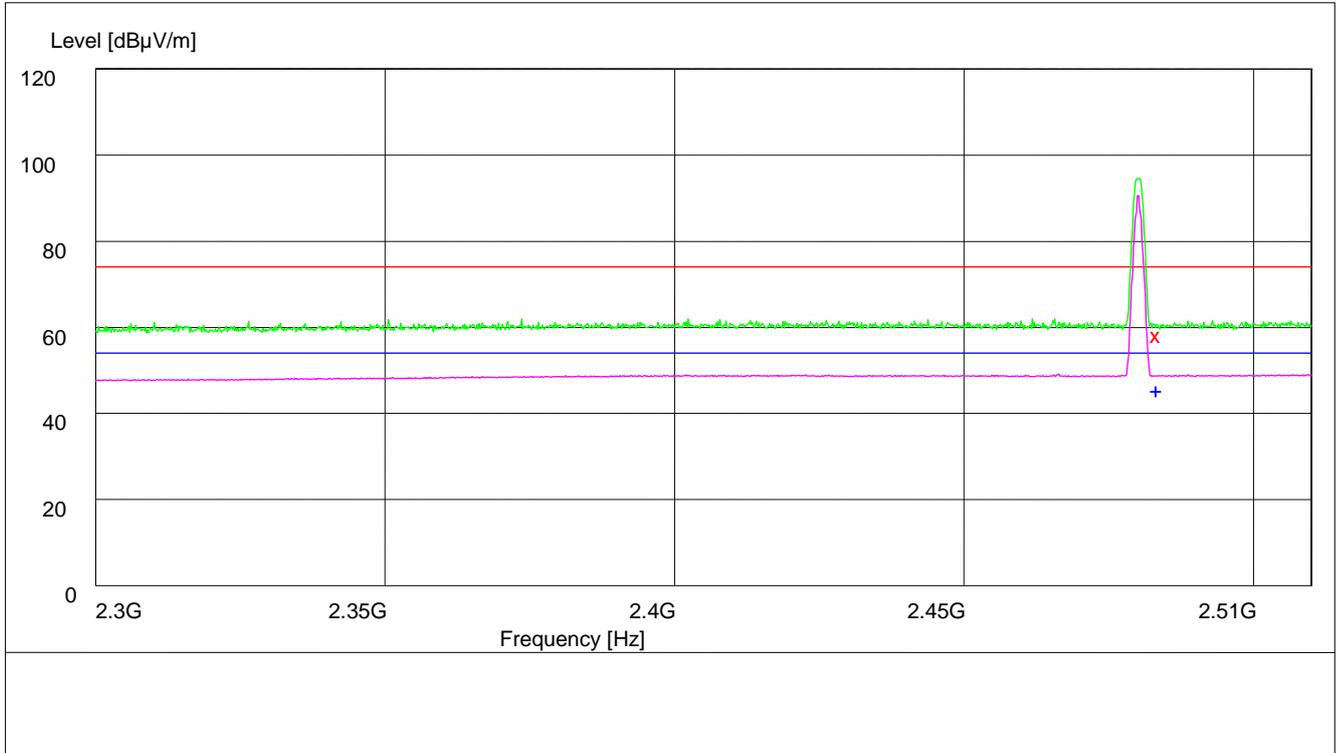
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	60.30	34.8	74.0	13.7	100.0	217.00	VERTICAL

MEASUREMENT RESULT: AV Detector



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	47.60	34.8	54.0	6.4	183.0	227.00	VERTICAL

1.7.4.1.2 Channel 39



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

MEASUREMENT RESULT: PK Detector

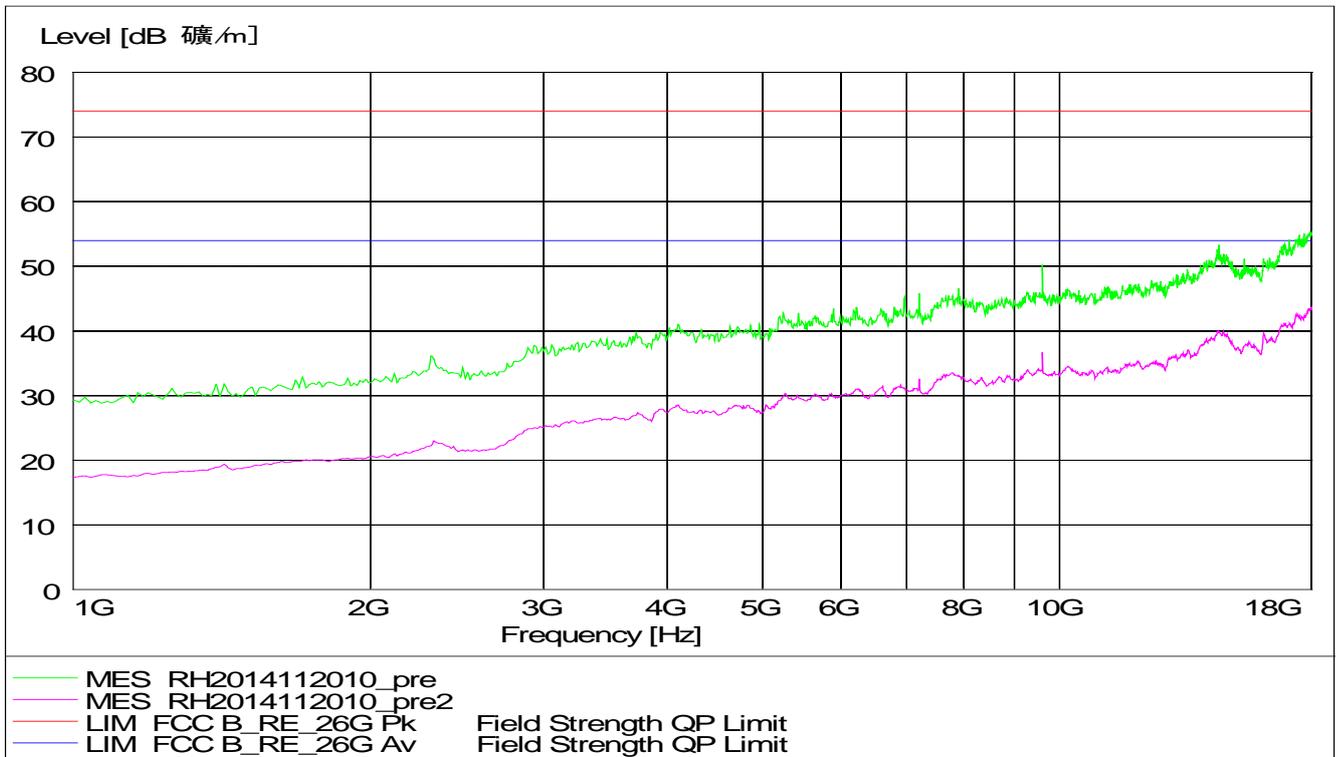
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	60.40	35.1	74.0	13.6	141.0	104.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	47.60	35.1	54.0	6.4	188.0	99.00	HORIZONTAL

1.7.5 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 dB μ V/m) and Average Limit (54 dB μ V/m).

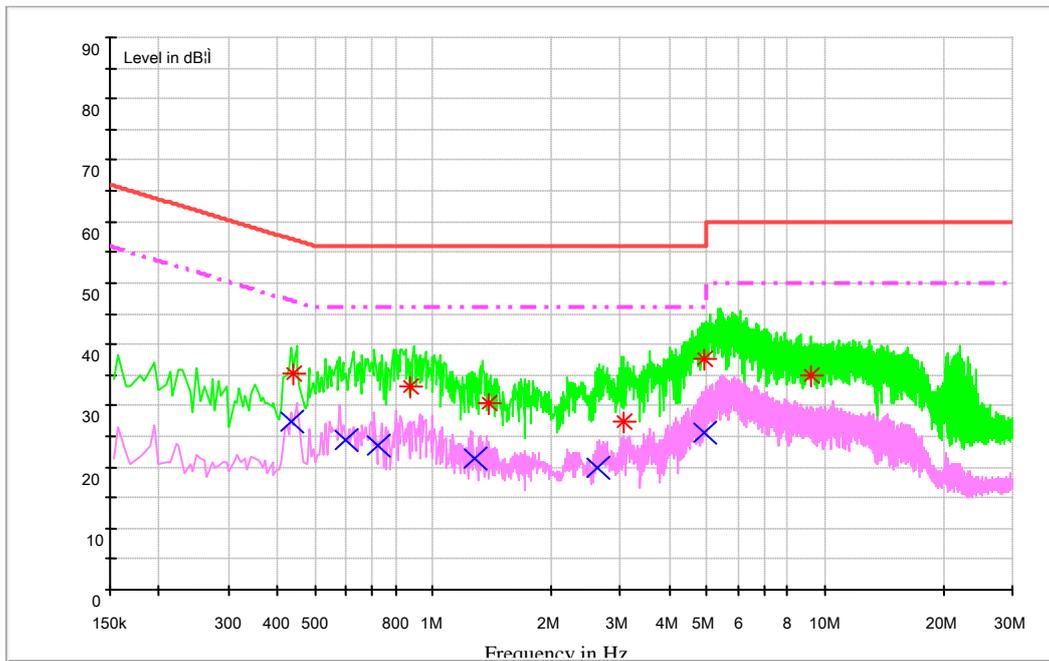


1.8 Appendix H: Conducted Emission at Power Port

Note: RBW =9 kHz, VBW = 30 kHz

Channel 40

CLASS B Voltage with ENV216



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Line	Transd dB	Margin dB	Limit dBμV	PE
0.440018	35.1	N	9.7	22.0	57.1	FLO
0.869948	33.0	N	9.7	23.0	56.0	FLO
1.383090	30.4	L1	9.7	25.6	56.0	FLO
3.049346	27.5	N	9.7	28.5	56.0	FLO
4.937378	37.6	L1	9.8	18.4	56.0	FLO
9.240758	34.9	N	9.9	25.1	60.0	FLO



MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dB μ V	Line	Transd dB	Margin dB	Limit dB μ V	PE
0.435225	27.3	N	9.7	19.9	47.2	FLO
0.597656	24.3	L1	9.7	21.7	46.0	FLO
0.725284	23.4	N	9.7	22.6	46.0	FLO
1.274126	21.5	L1	9.7	24.5	46.0	FLO
2.624768	19.8	N	9.7	26.2	46.0	FLO
4.894808	25.6	N	9.8	20.4	46.0	FLO

END