

Appendix A: 6dB Emission Bandwidth (EBW)



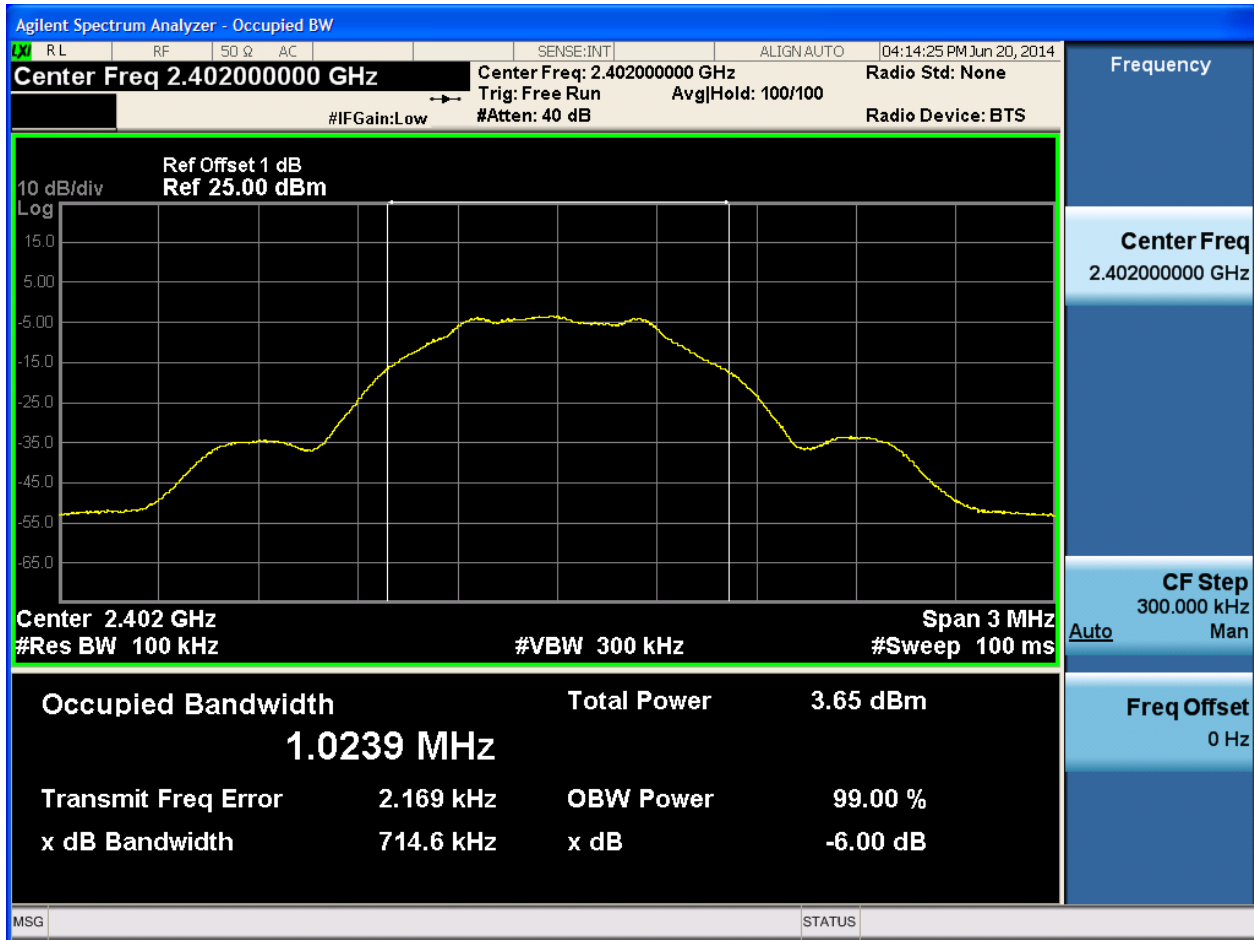
1 Result Table

EUT Conf.	EBW [KHz]	Verdict
TM1_DH5_Ch0	714.6	Pass
TM1_DH5_Ch19	699.4	Pass
TM1_DH5_Ch39	702.3	Pass



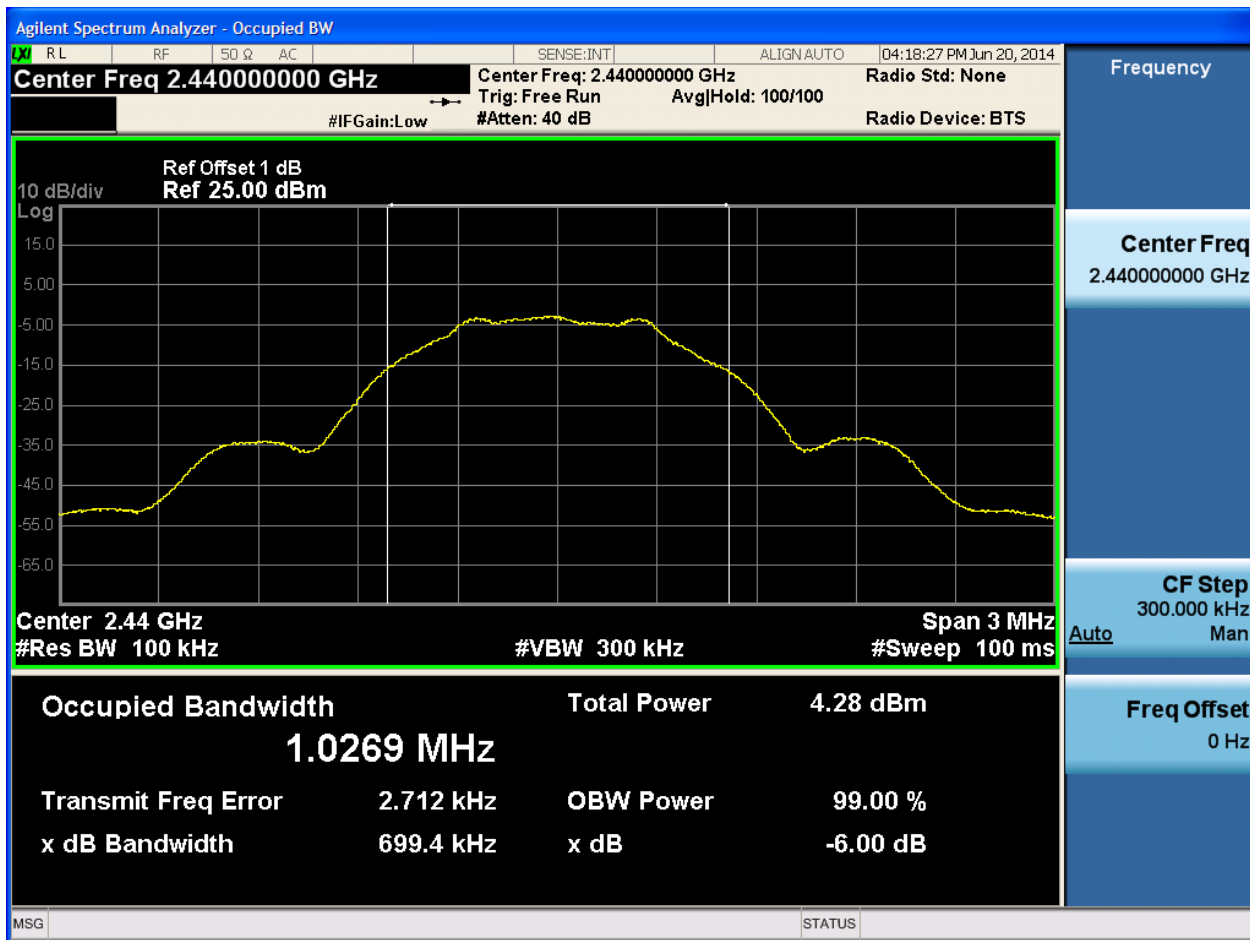
2 Test Plot

2.1 TM1_DH5_Ch0



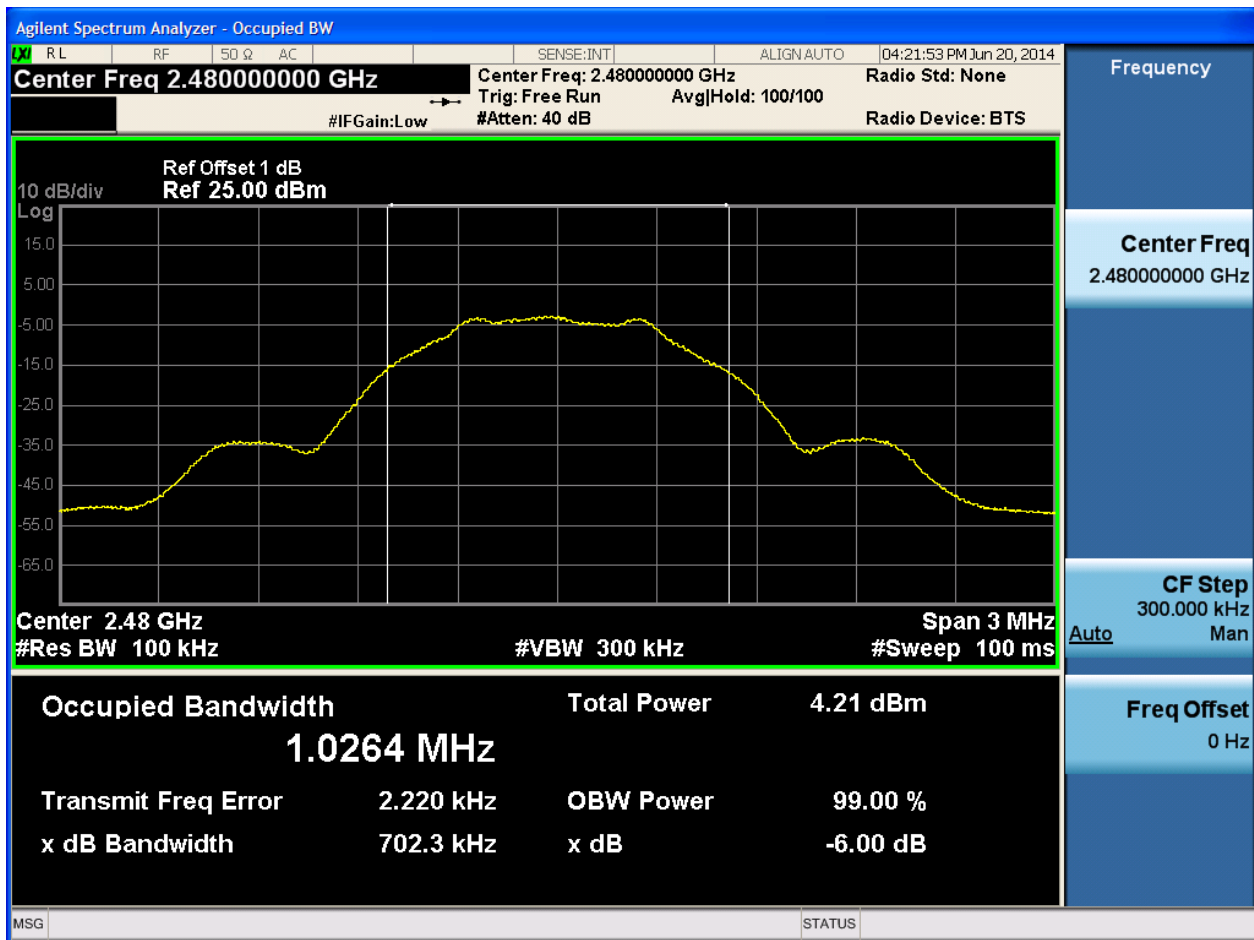


2.2 TM1_DH5_Ch19





2.3 TM1_DH5_Ch39



Appendix B: Maximum Peak Conducted Output Power



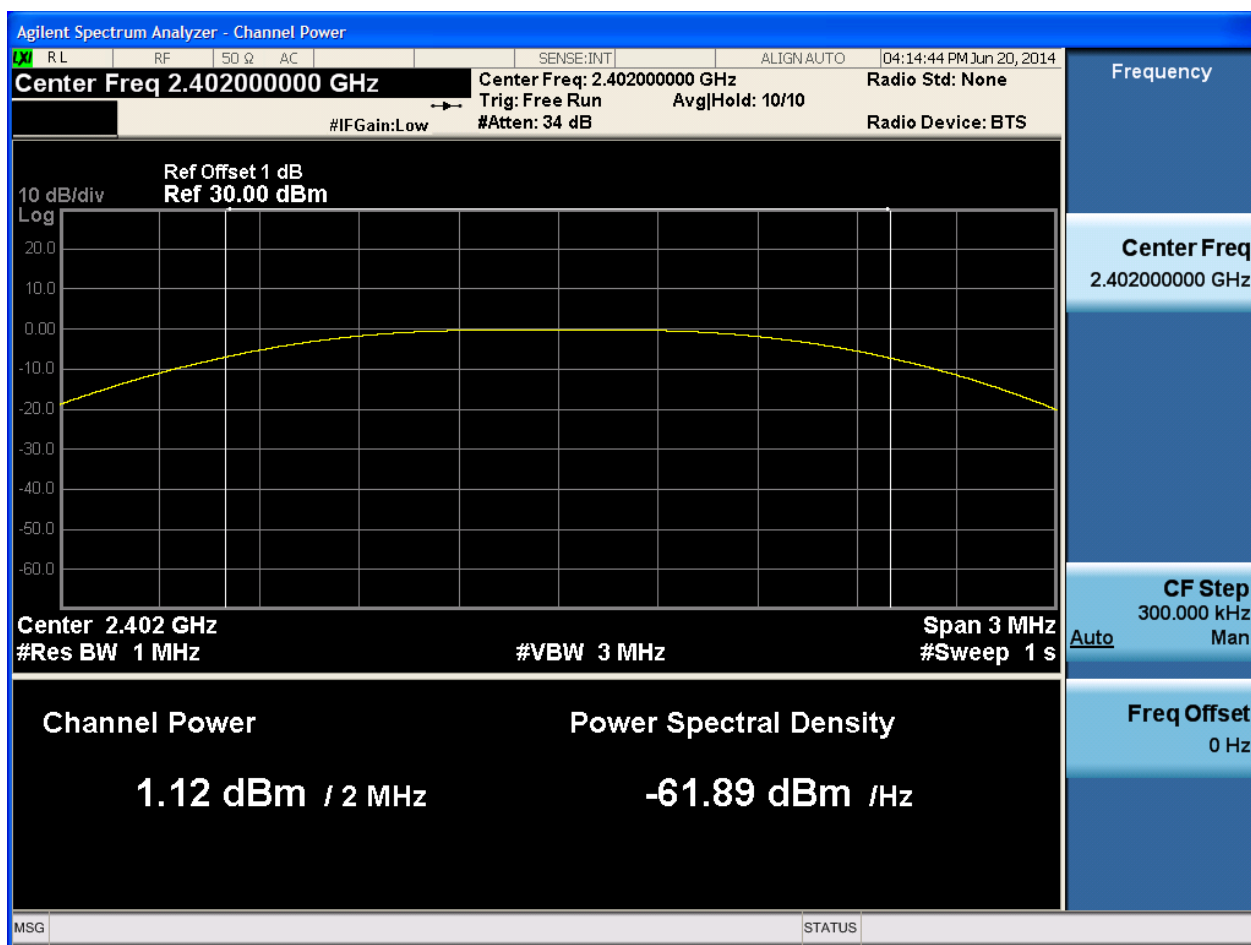
1 Result Table

EUT Conf.	Max. Peak Power [dBm]	Verdict
TM1_DH5_Ch0	1.20	Pass
TM1_DH5_Ch19	1.72	Pass
TM1_DH5_Ch39	1.71	Pass



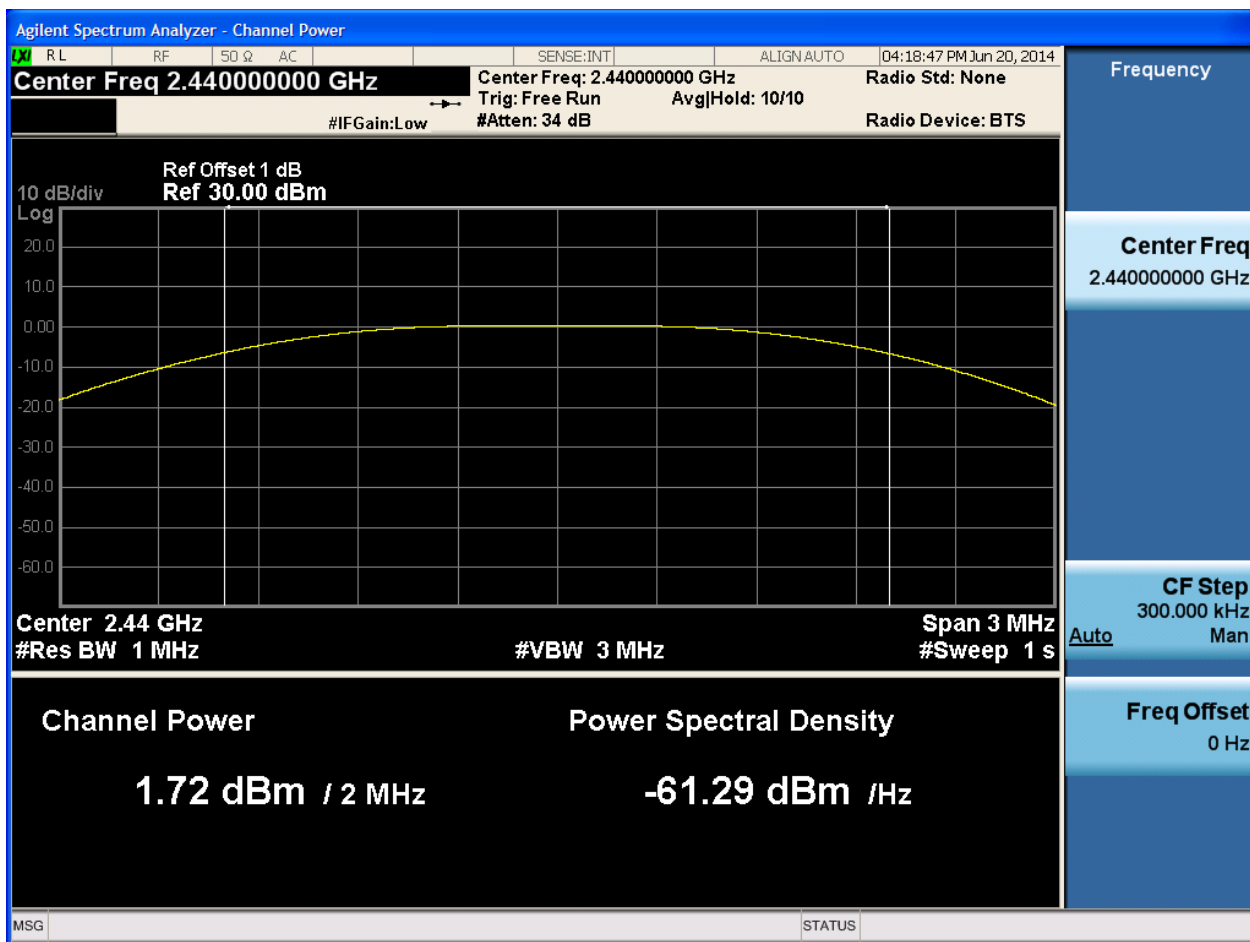
2 Test Plot

2.1 TM1_DH5_Ch0



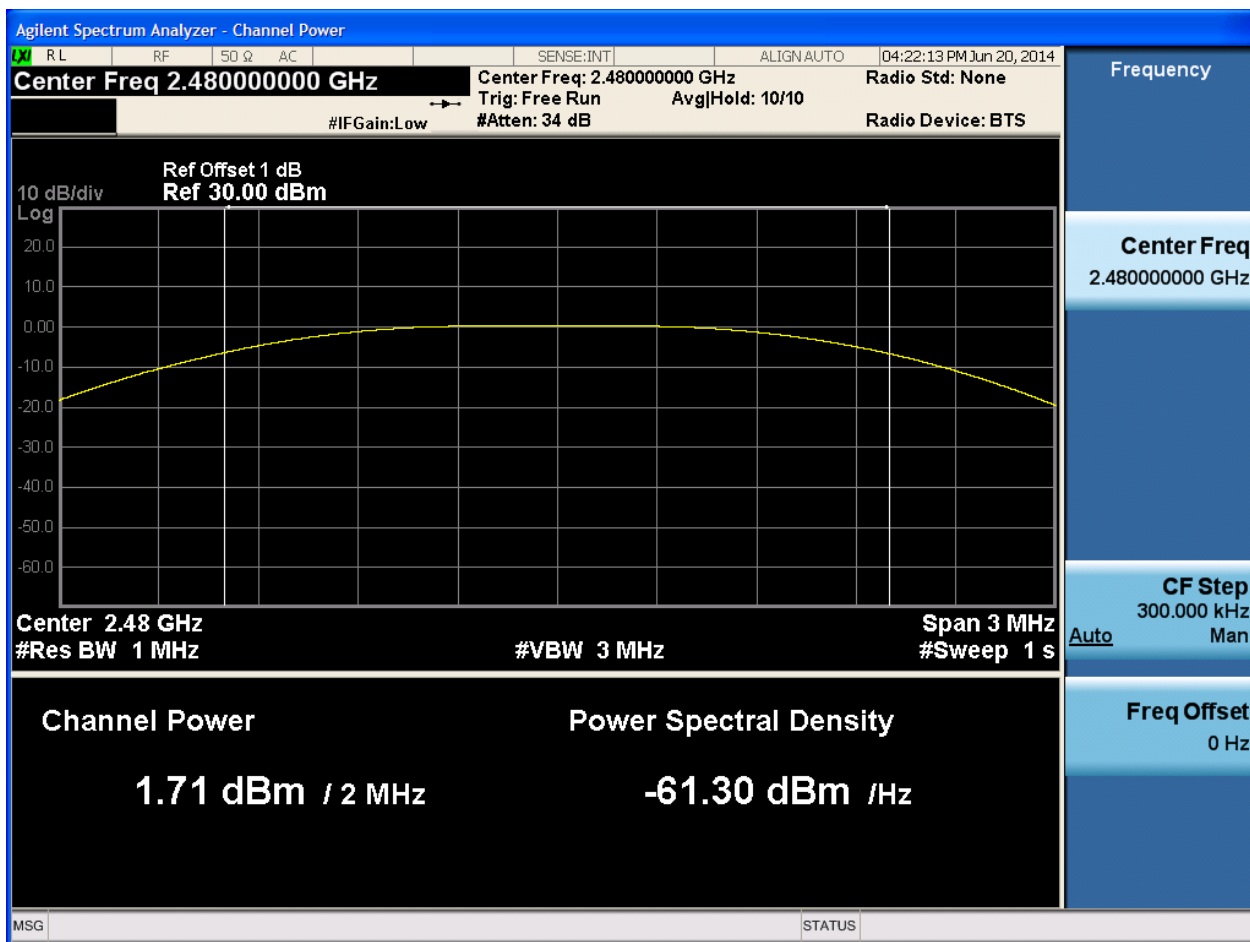


2.2 TM1_DH5_Ch19





2.3 TM1_DH5_Ch39



Appendix C: Maximum Power Spectral Density Level



1 Result Table

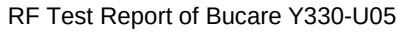
EUT Conf.	Max. Power Spectral Density Level [dBm]	Verdict
TM1_DH5_Ch0	-10.31	Pass
TM1_DH5_Ch19	-9.64	Pass
TM1_DH5_Ch39	-9.68	Pass



2 Test Plot

2.1 TM1_DH5_Ch0





Agilent Spectrum Analyzer - Swept SA

Center Freq 2.44000000 GHz

Ref Offset 1 dB
Ref 30.00 dBm

10 dB/div
Log

Start 2.438500 GHz
#Res BW 10 kHz

Stop 2.441500 GHz
Sweep 27.7 ms (601 pts)

Trig: Free Run
Atten: 40 dB

Avg Type: Log-Pwr
Avg/Hold: 100/100

Mkr1 2.439 965 GHz
-9.643 dBm

Auto Tune

Center Freq
2.44000000 GHz

Start Freq
2.438500000 GHz

Stop Freq
2.441500000 GHz

CF Step
300.000 kHz
Man

Freq Offset
0 Hz



2.3 TM1_DH5_Ch39



Appendix D: Band edge spurious emission

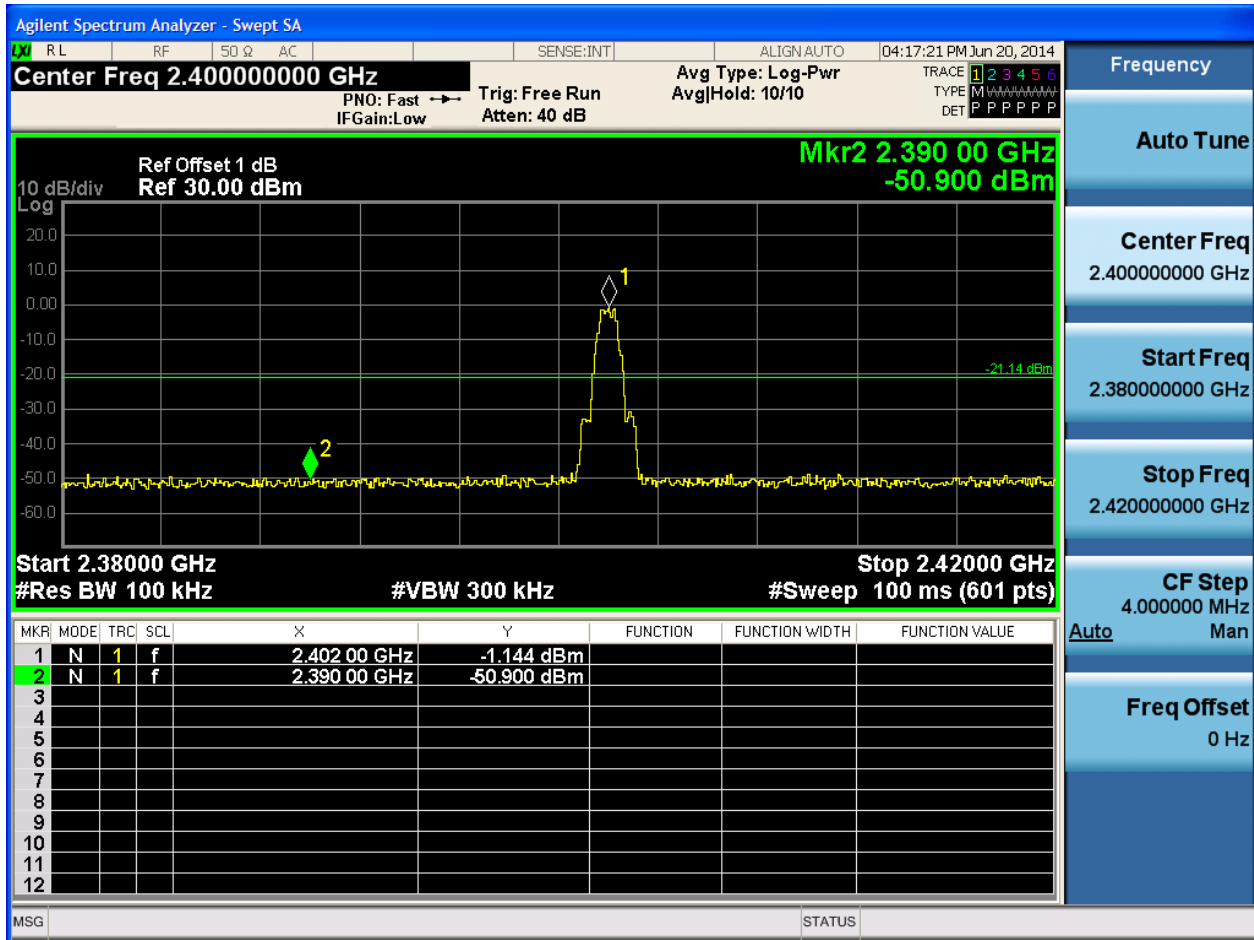
3 Result Table

EUT Conf.	Channel No.	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max. Spurious Level [dBm]	Limit [dBm]	Result
TM1_DH5_Ch0	0	2402	-1.14	Off	-50.90	-21.14	Pass
TM1_DH5_Ch39	39	2480	-0.72	Off	-50.96	-20.72	Pass



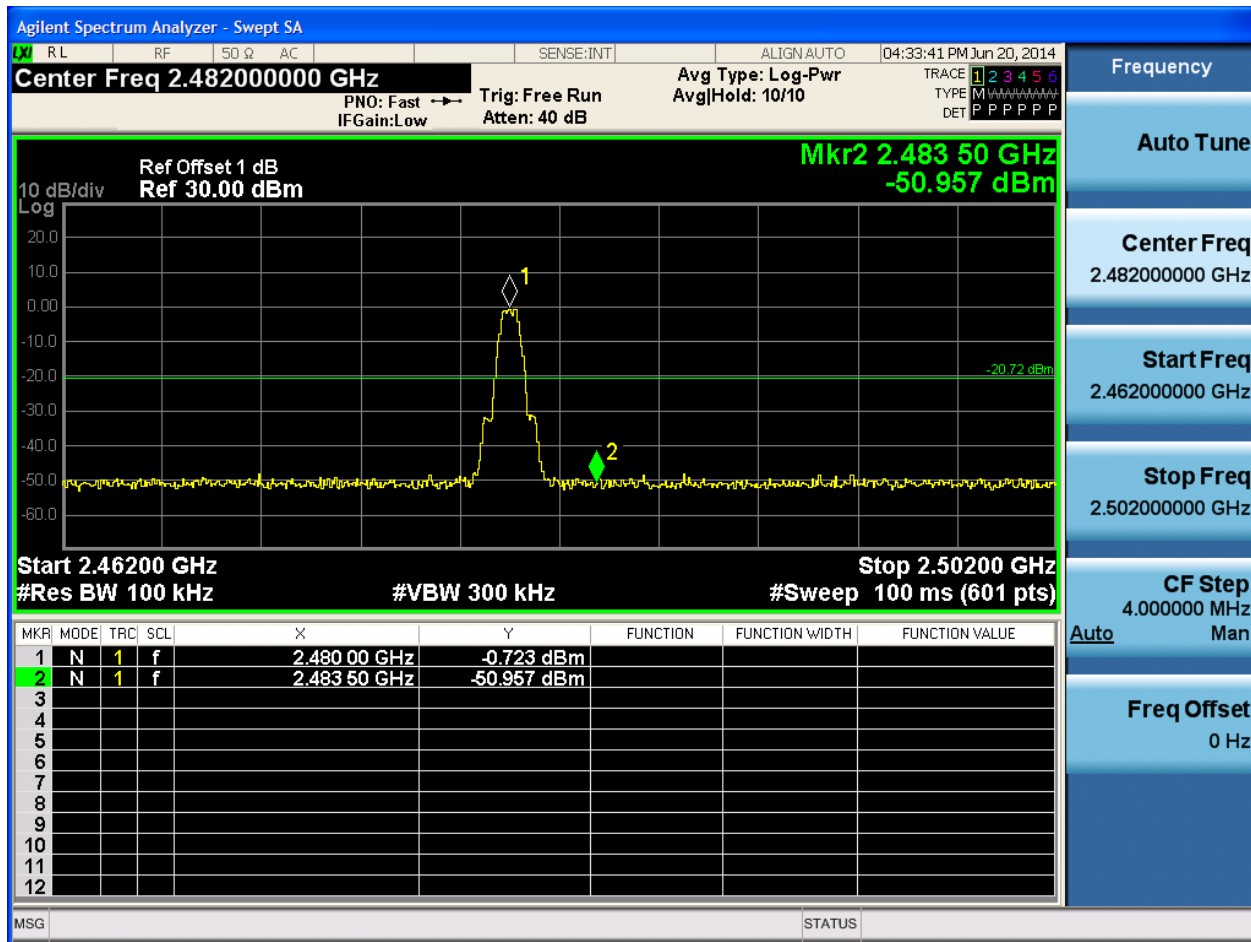
2 Test Plot

2.1 TM1_DH5_Ch0





2.2 TM1_DH5_Ch39



Appendix E: Conducted RF Spurious Emission

1 Result Table

In this Appendix, the “Pref” refers to the peak power level in any 100 kHz bandwidth within the fundamental emission which is used as the reference level, 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.

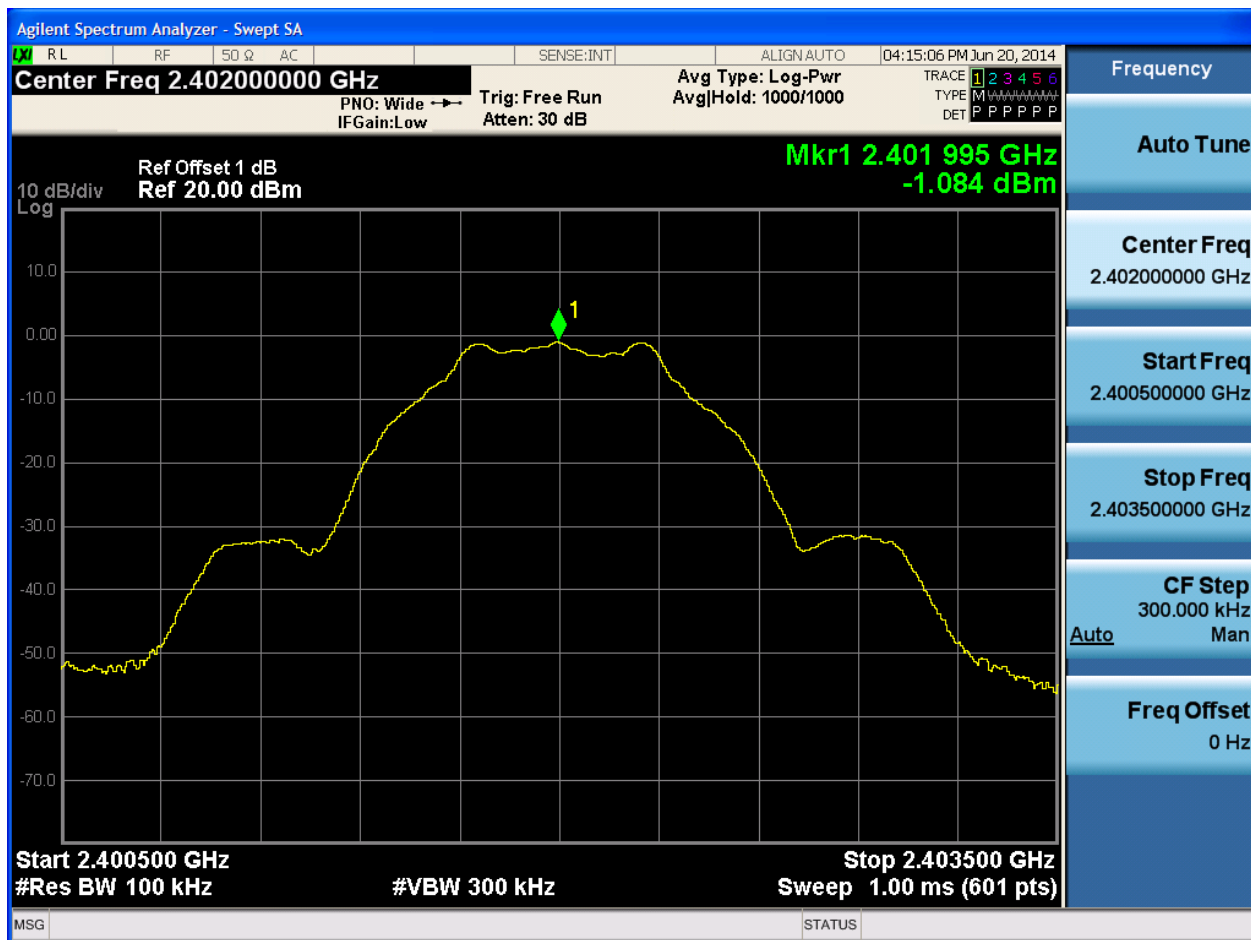
In the result table, the “< Limit” denotes that “The Puw [dBm] is less than Pref [dBm] - 20 [dB], see test plots for detailed”.

EUT Conf.	Pref [dBm/100 kHz]	Puw [dBm/100 kHz]	Verdict
TM1_DH5_Ch0	-1.08	< Limit	Pass
TM1_DH5_Ch39	-0.47	< Limit	Pass
TM1_DH5_Ch78	-0.49	< Limit	Pass

2 Test Plot

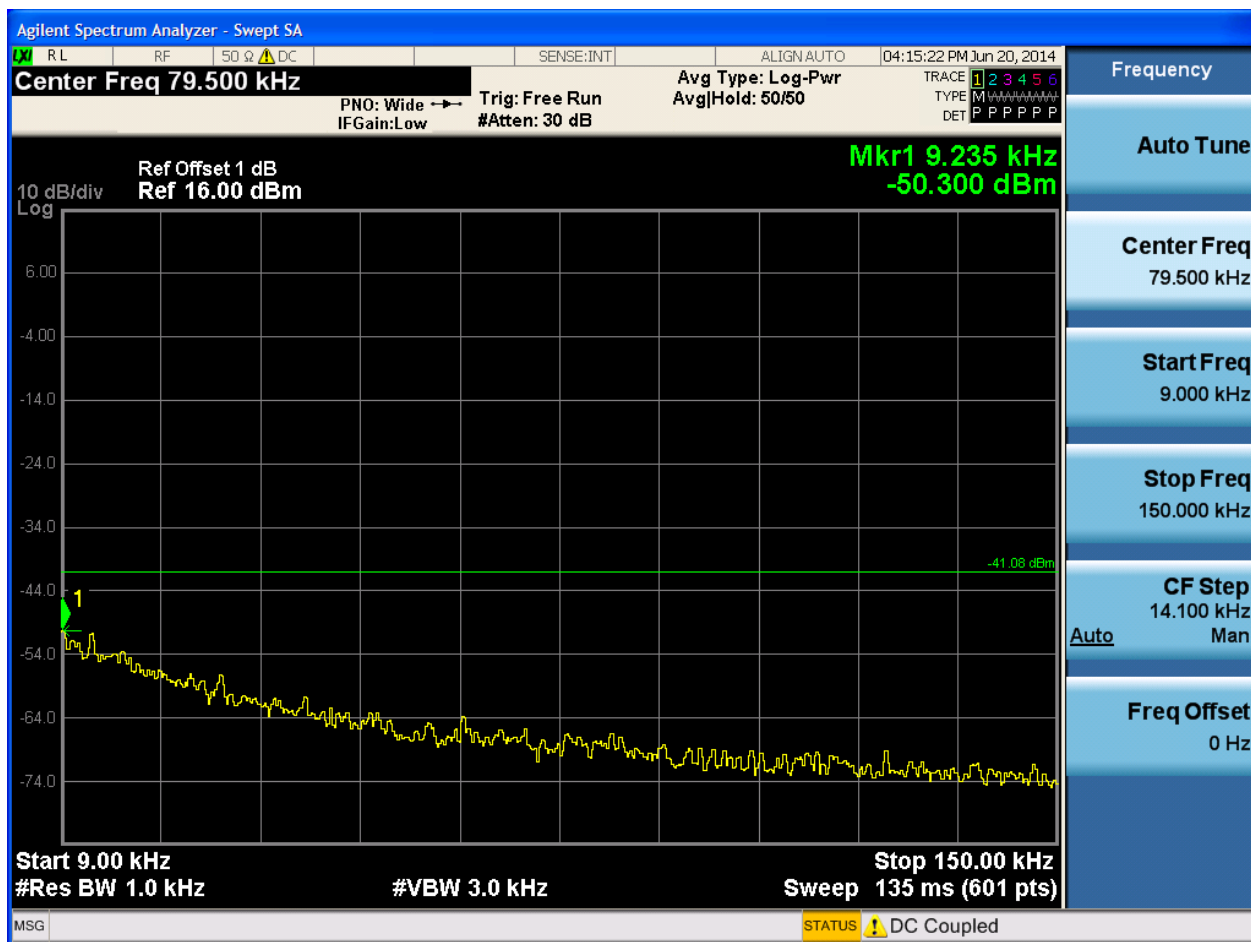
2.1 TM1_DH5_Ch0

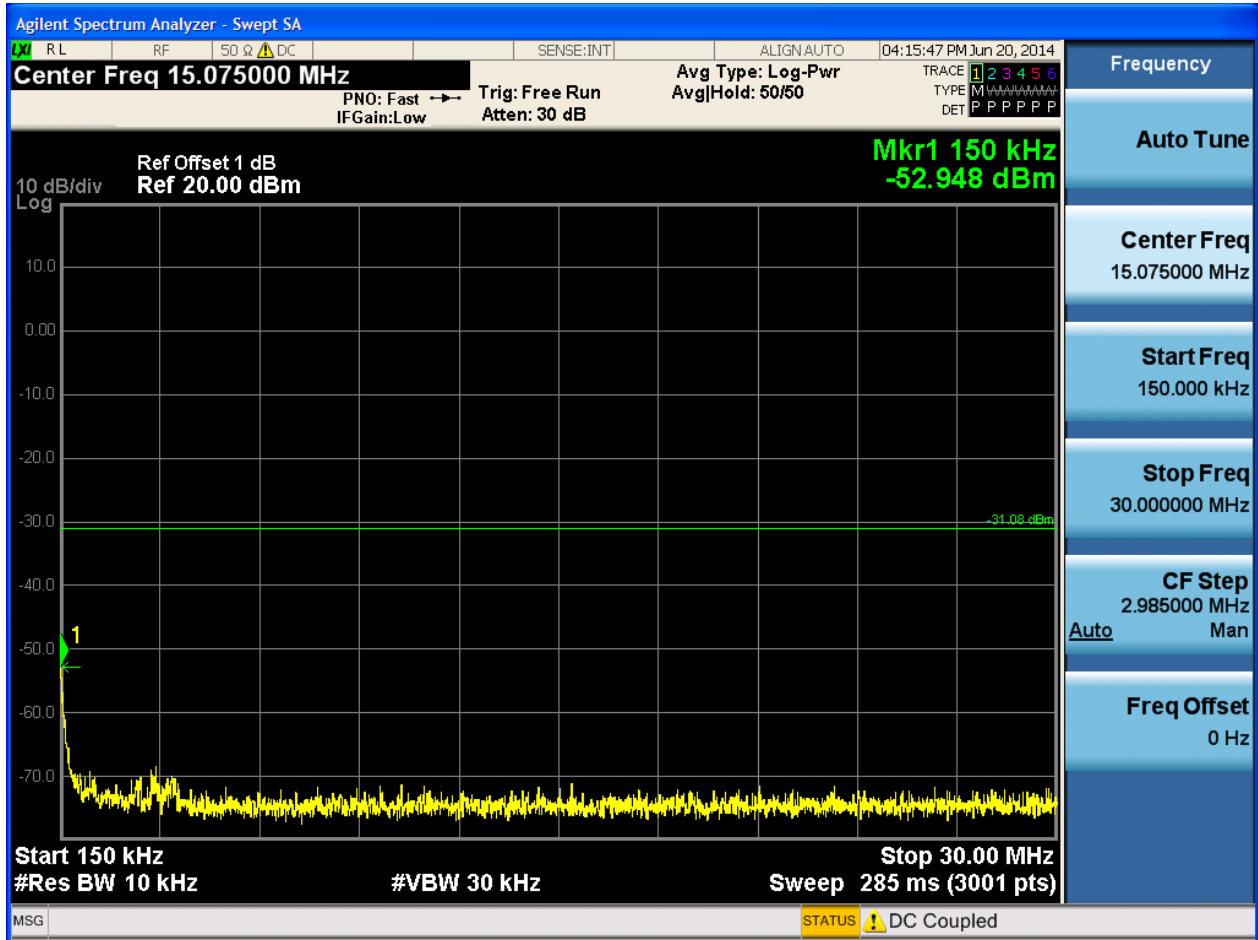
2.1.1 Pref

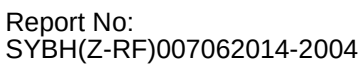
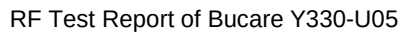


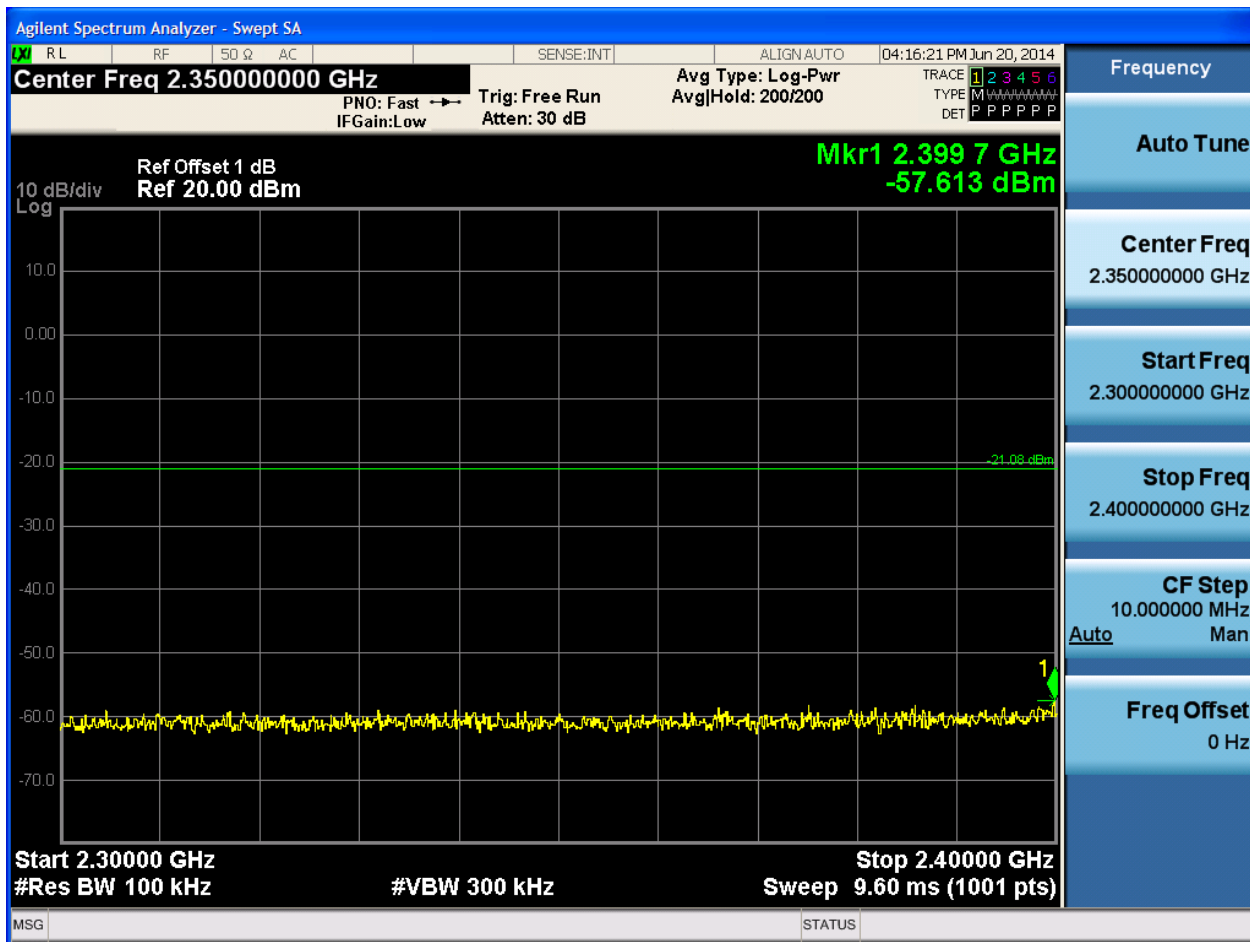


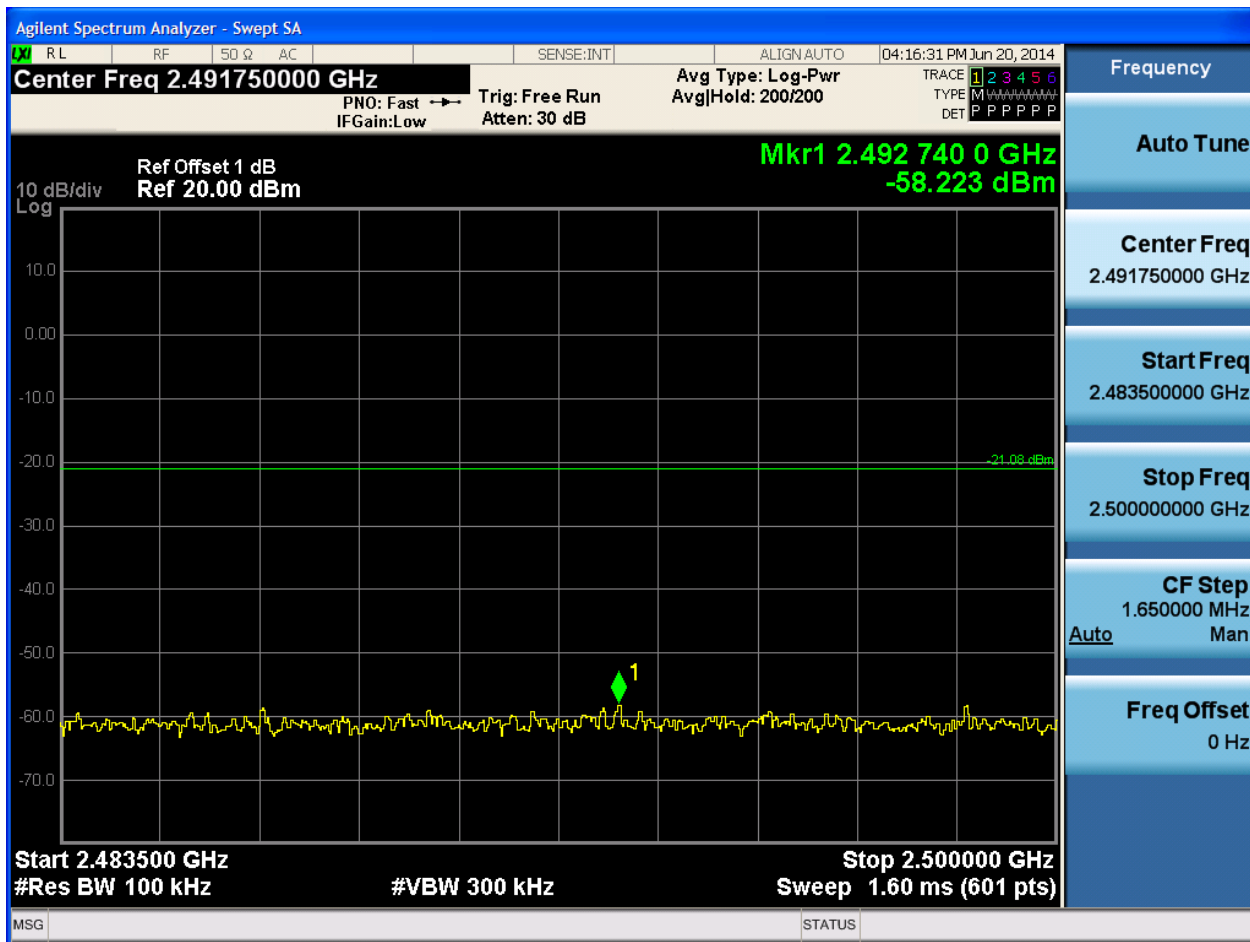
2.1.2 Puw







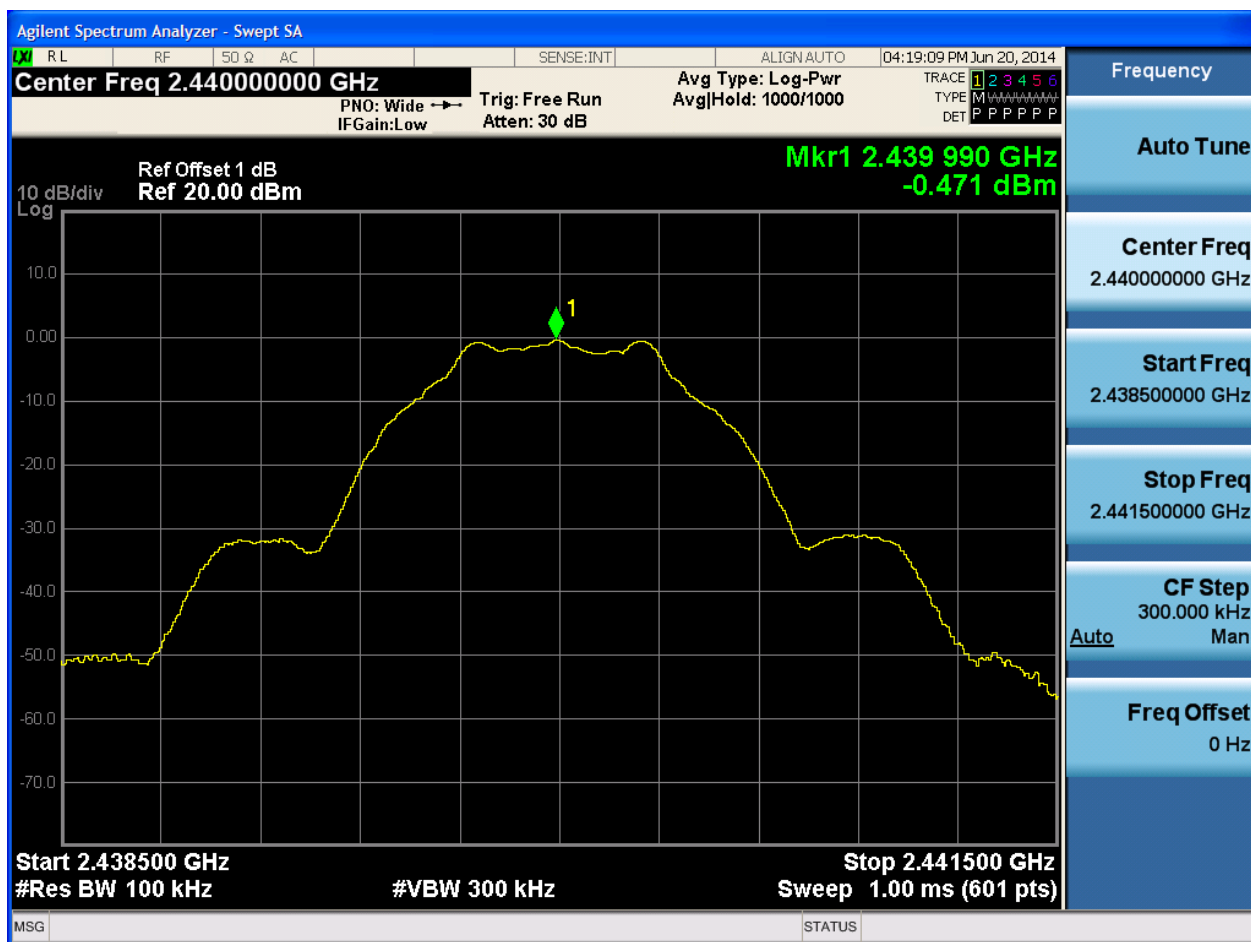






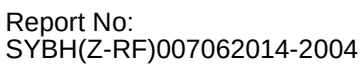
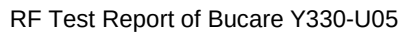
2.2 TM1_DH5_Ch19

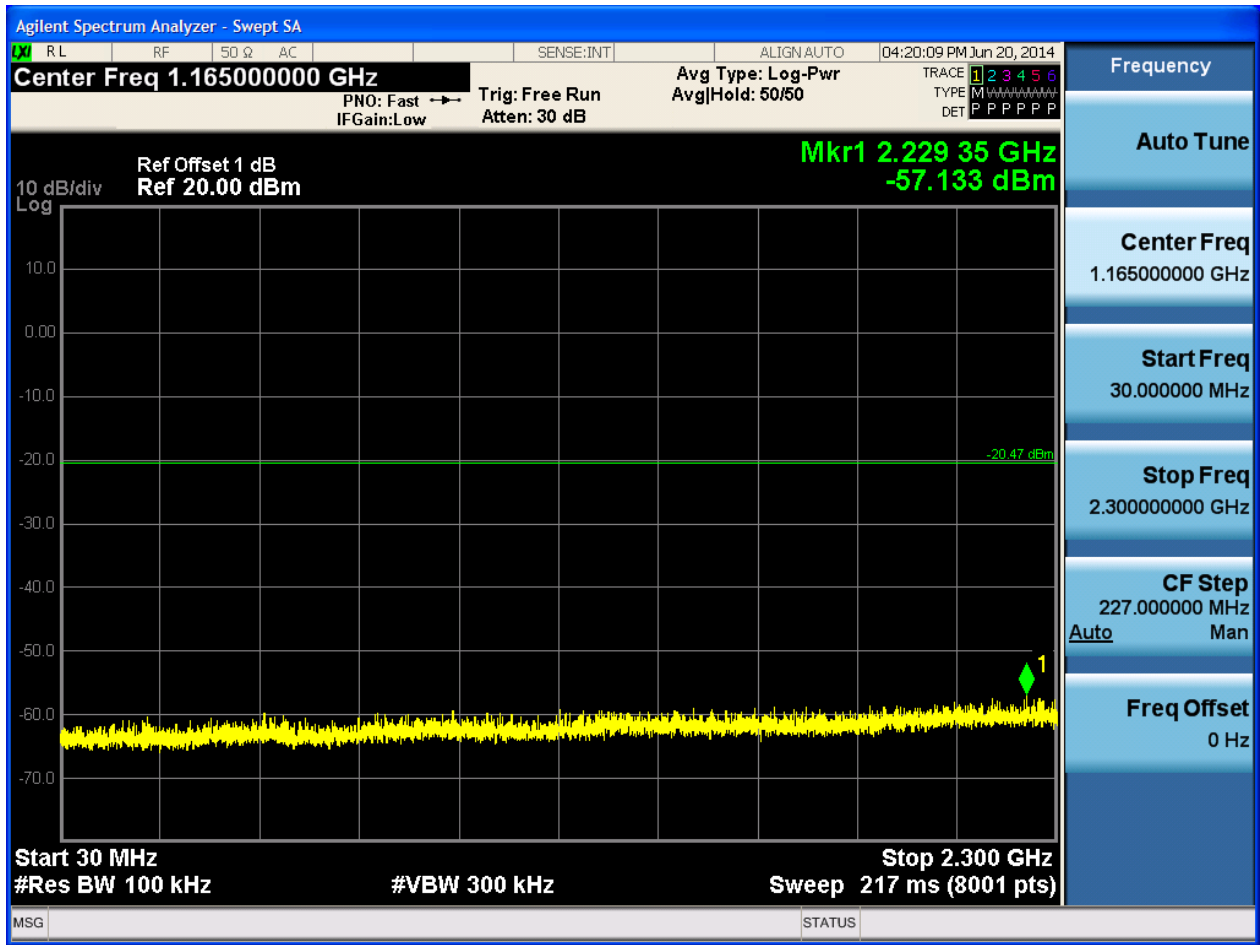
2.2.1 Pref

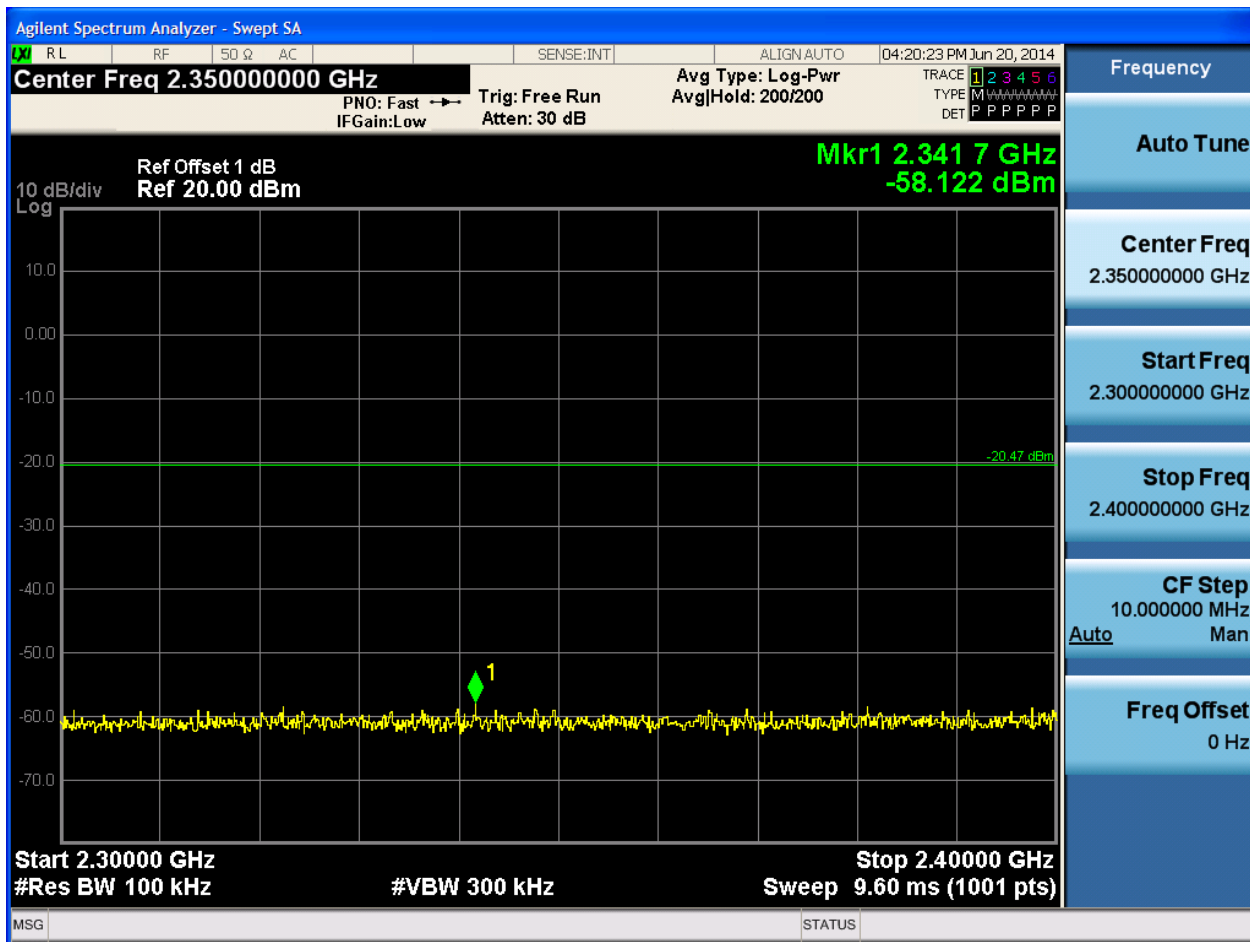


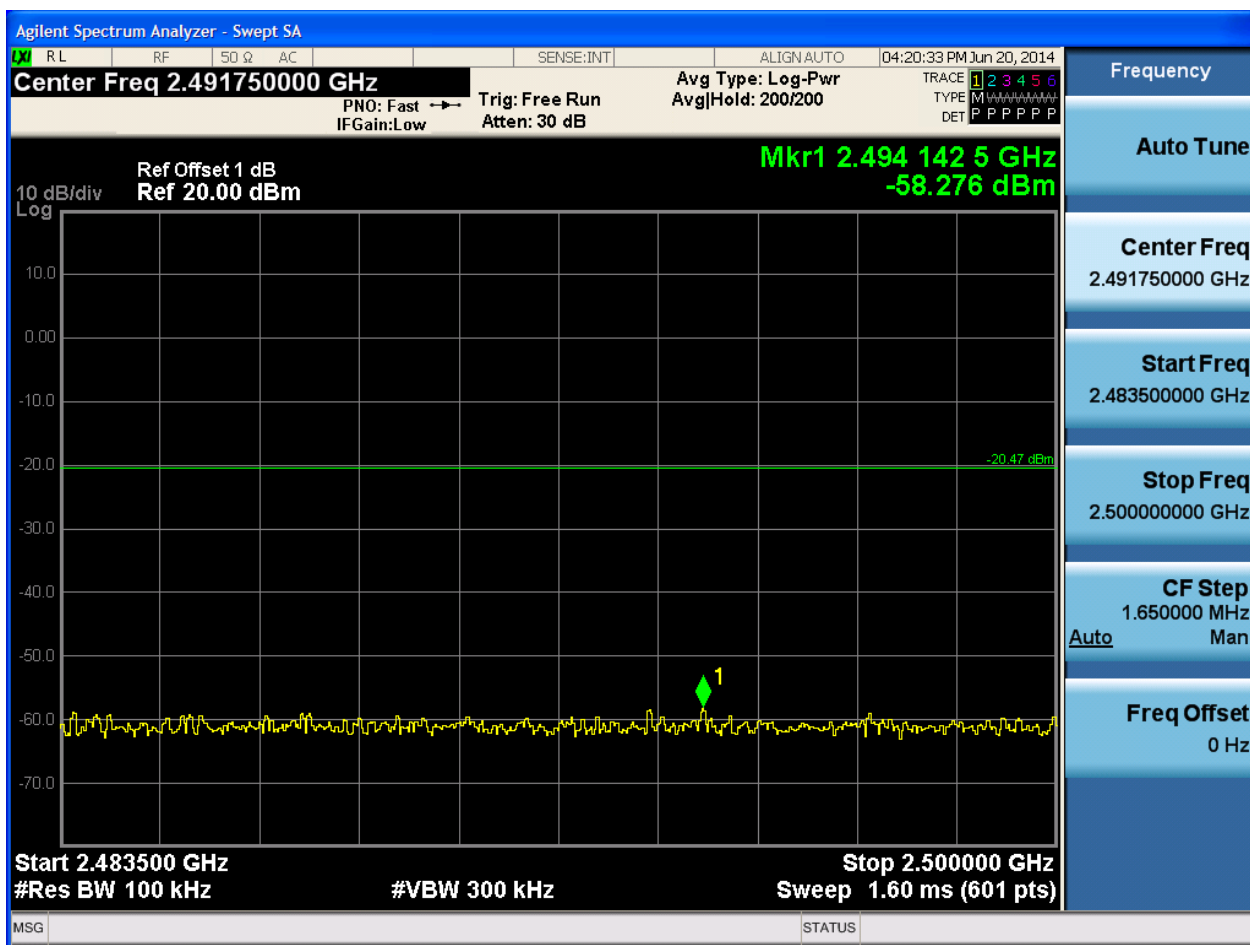
2.2.2 Puw







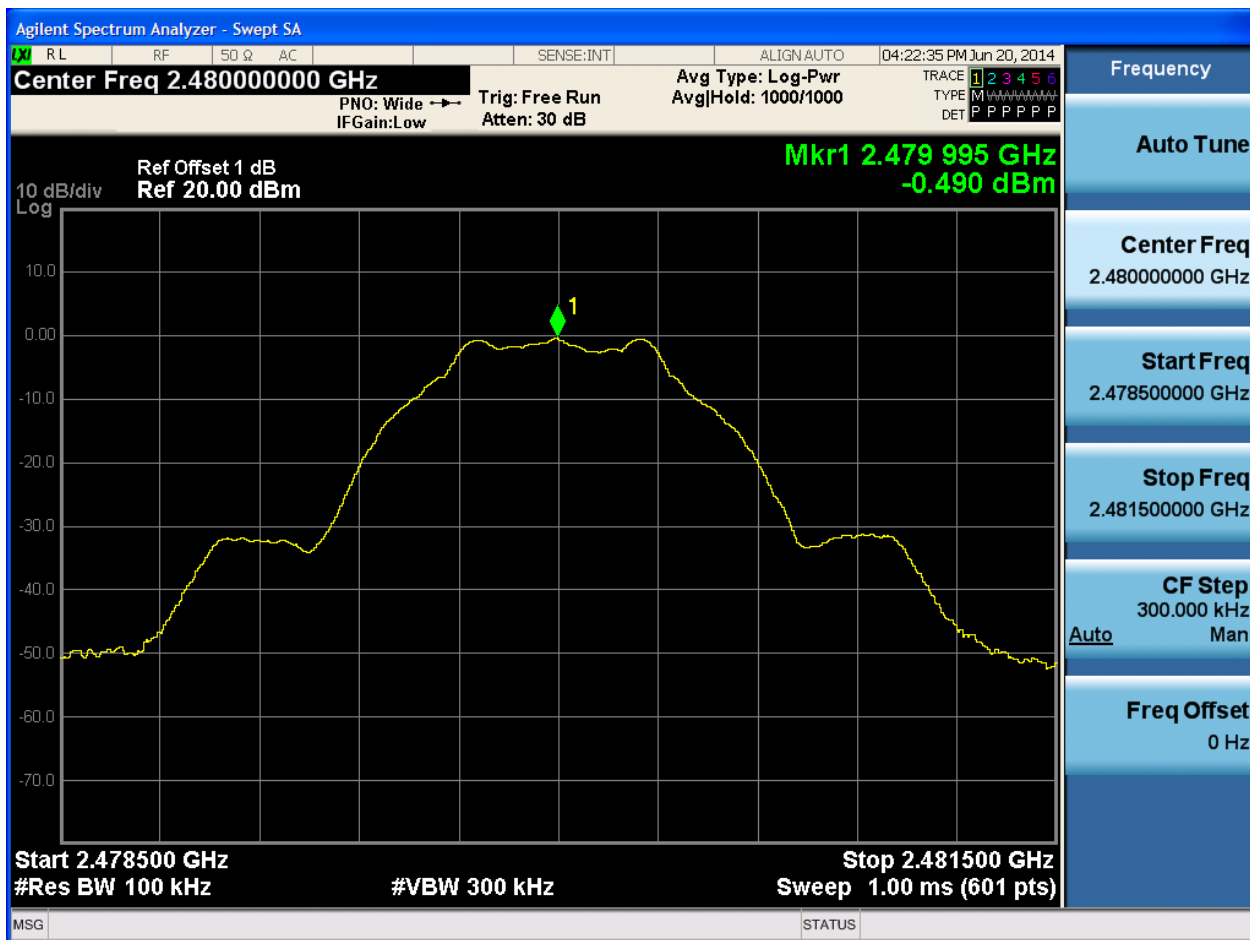






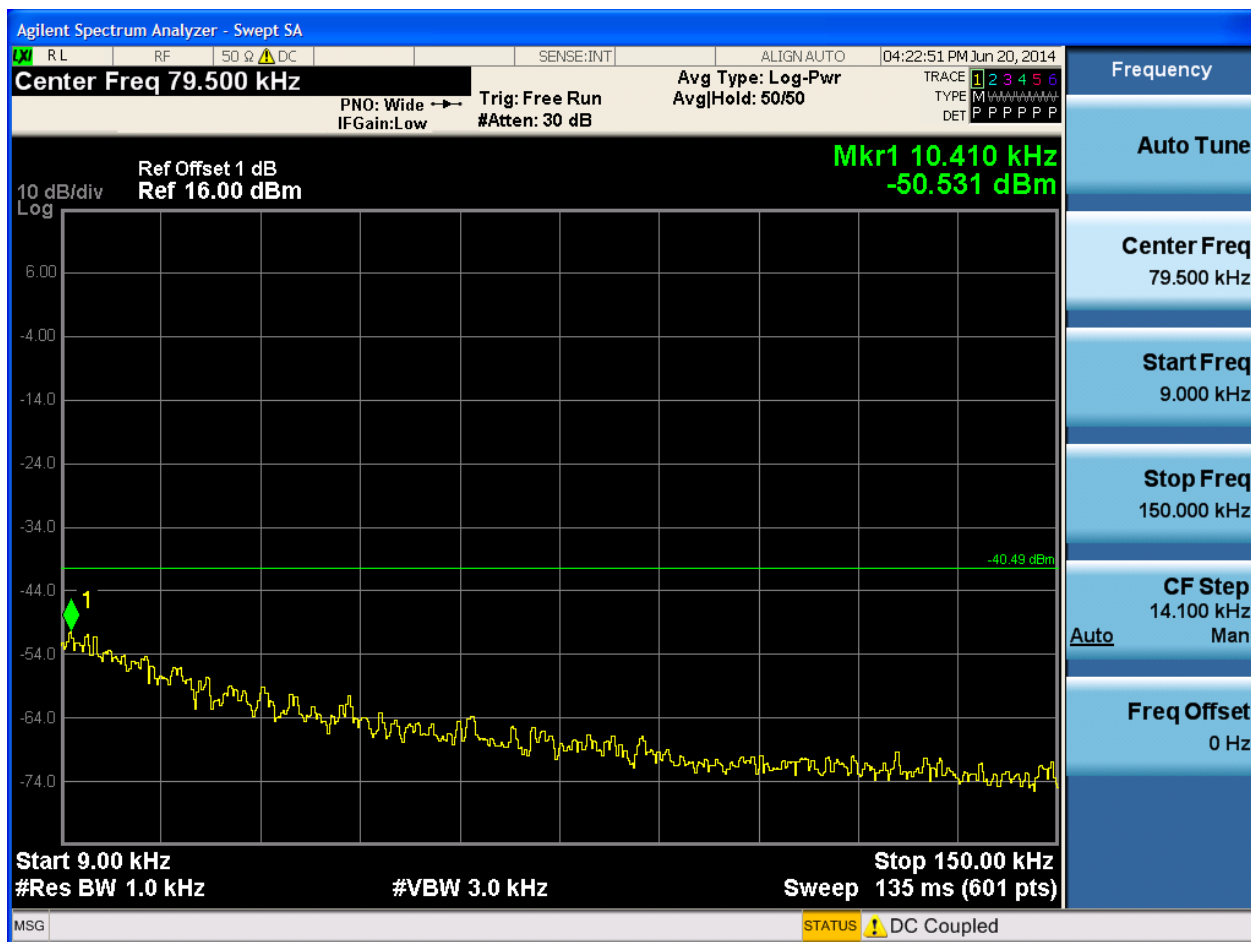
2.3 TM1_DH5_Ch39

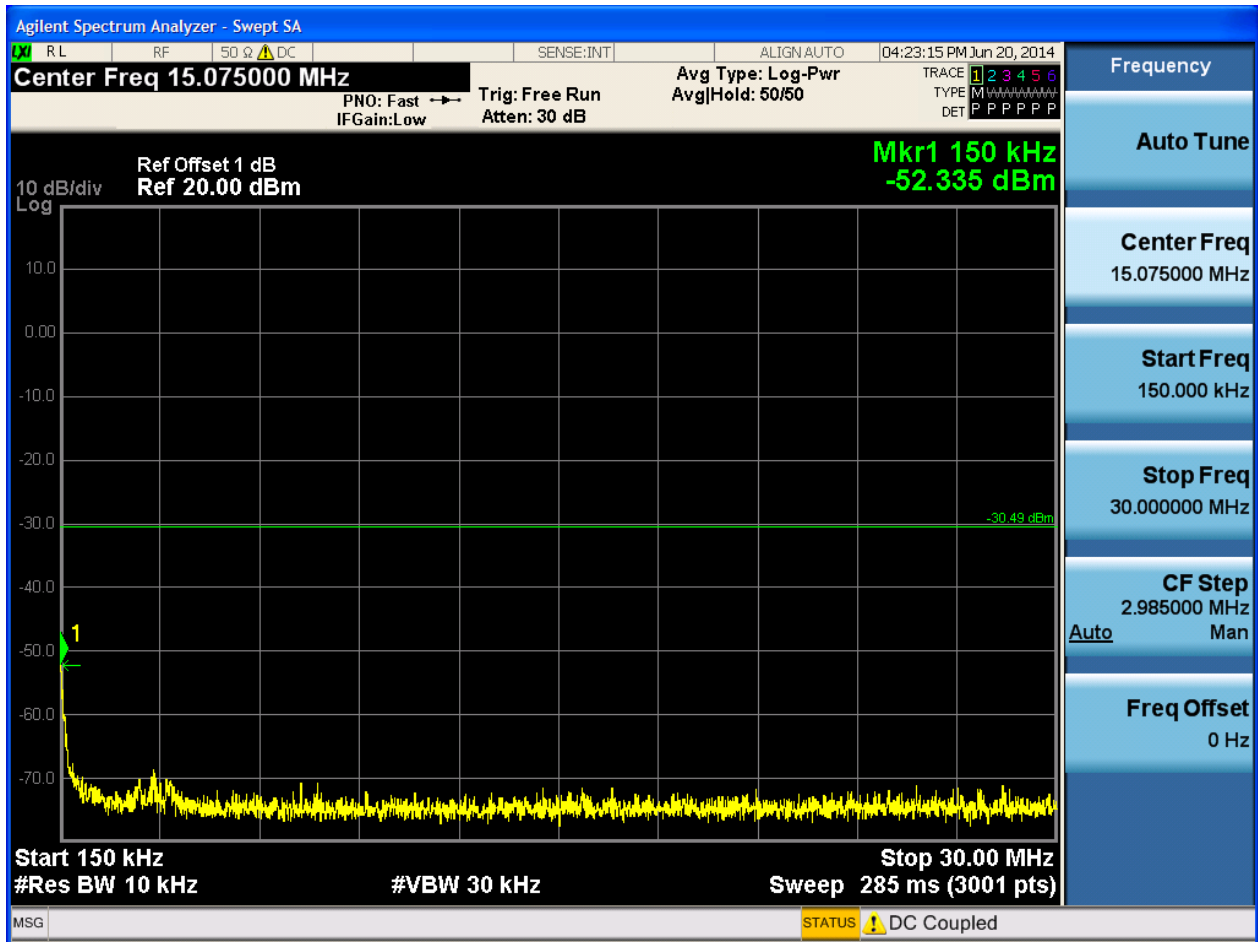
2.3.1 Pref

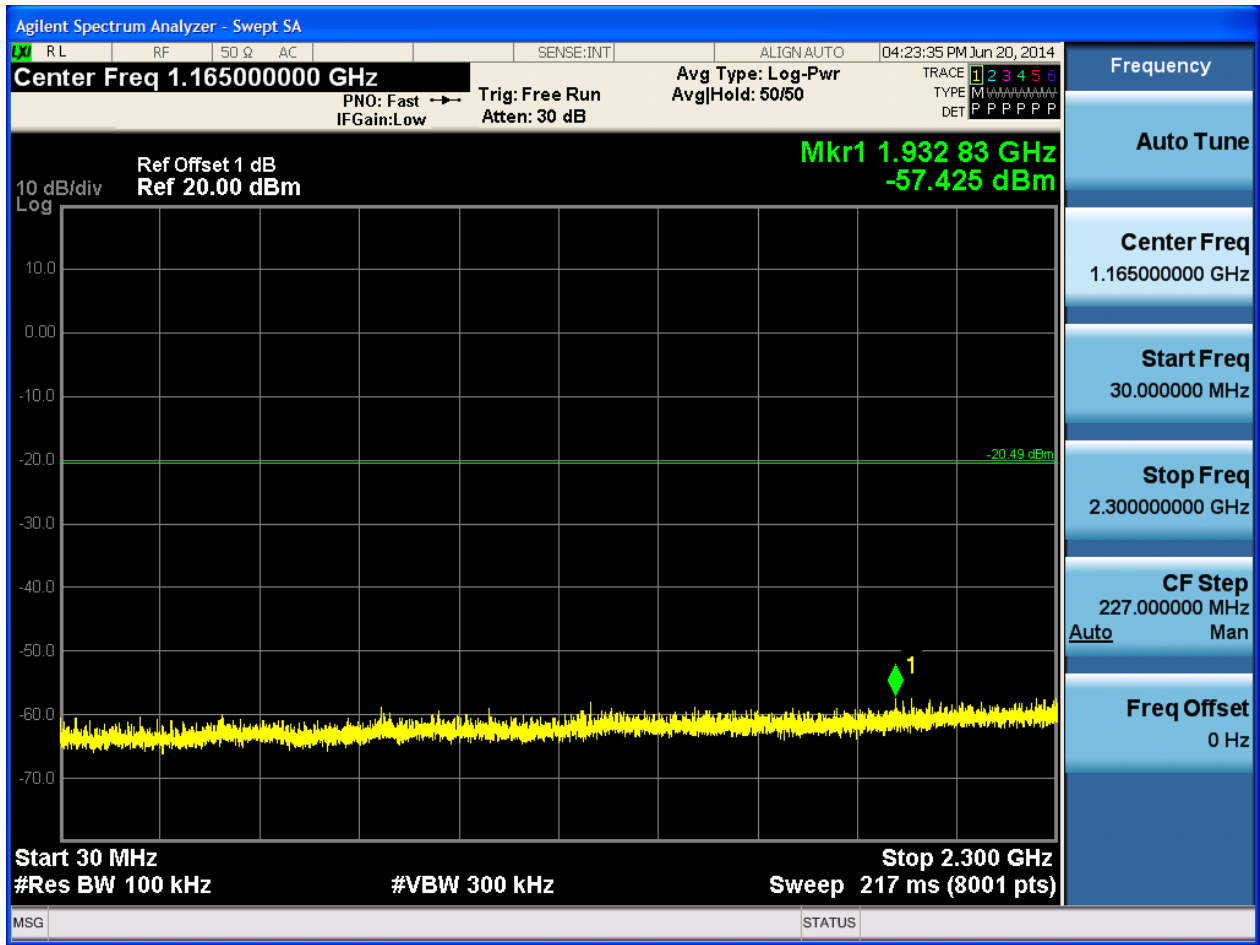


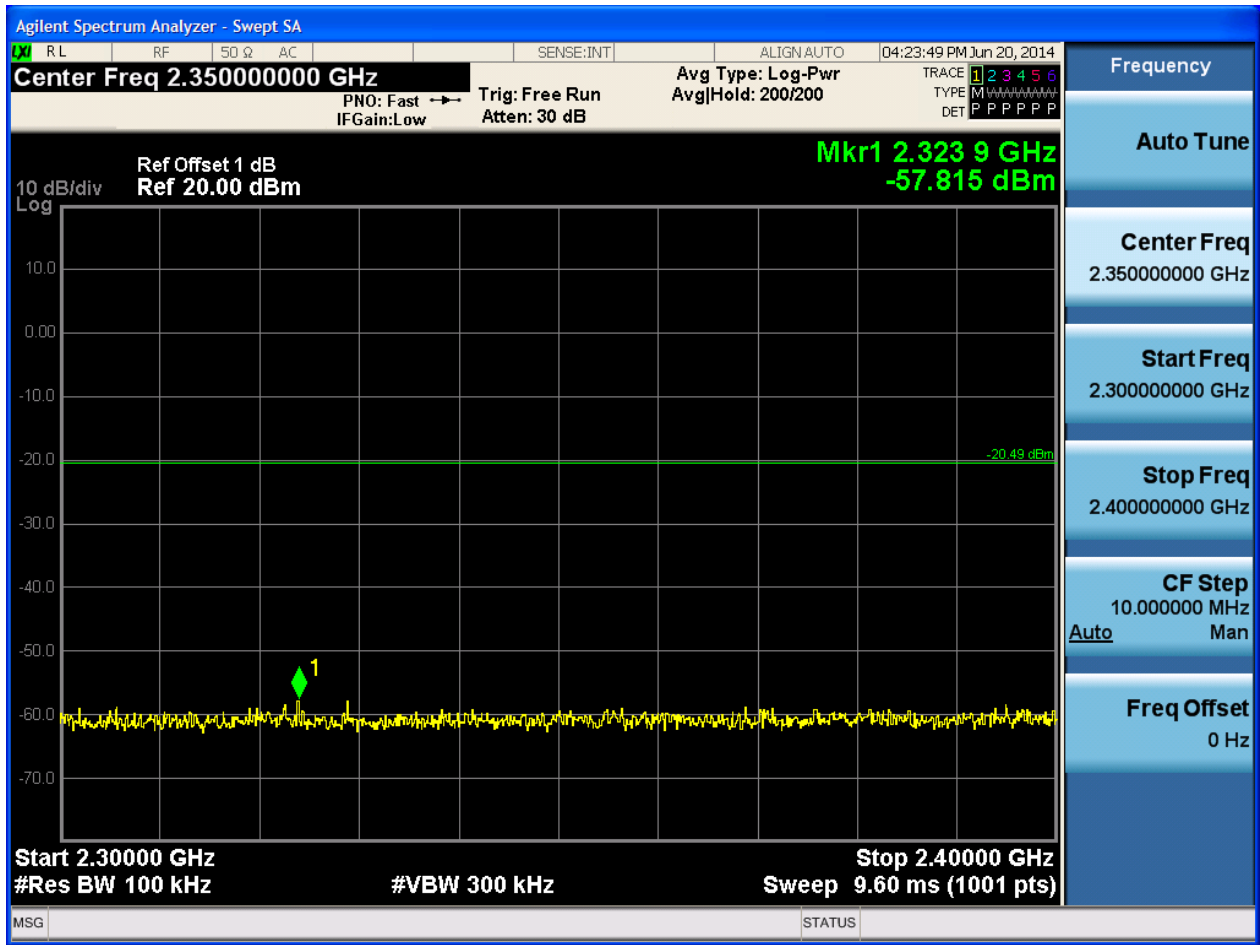


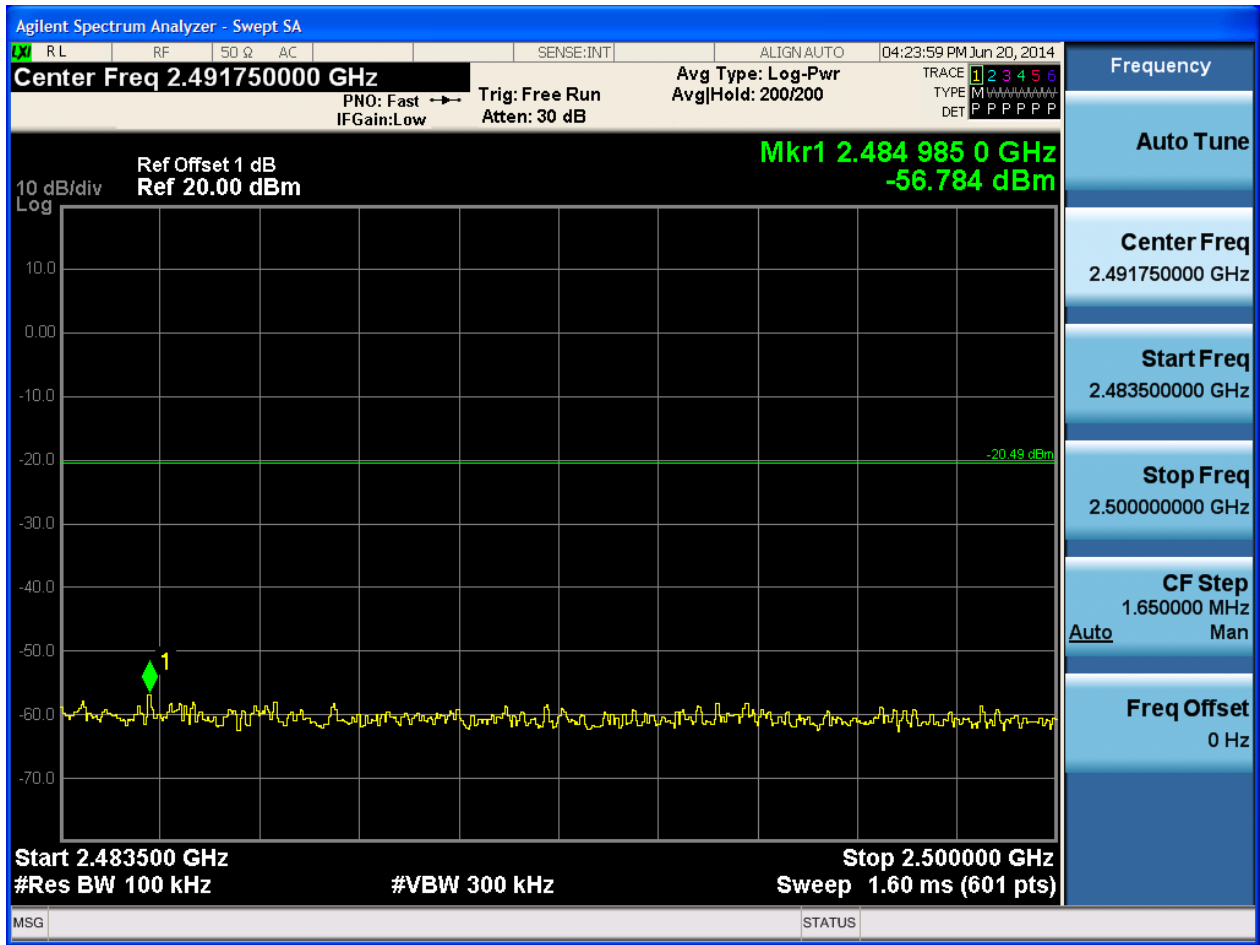
2.3.2 Puw











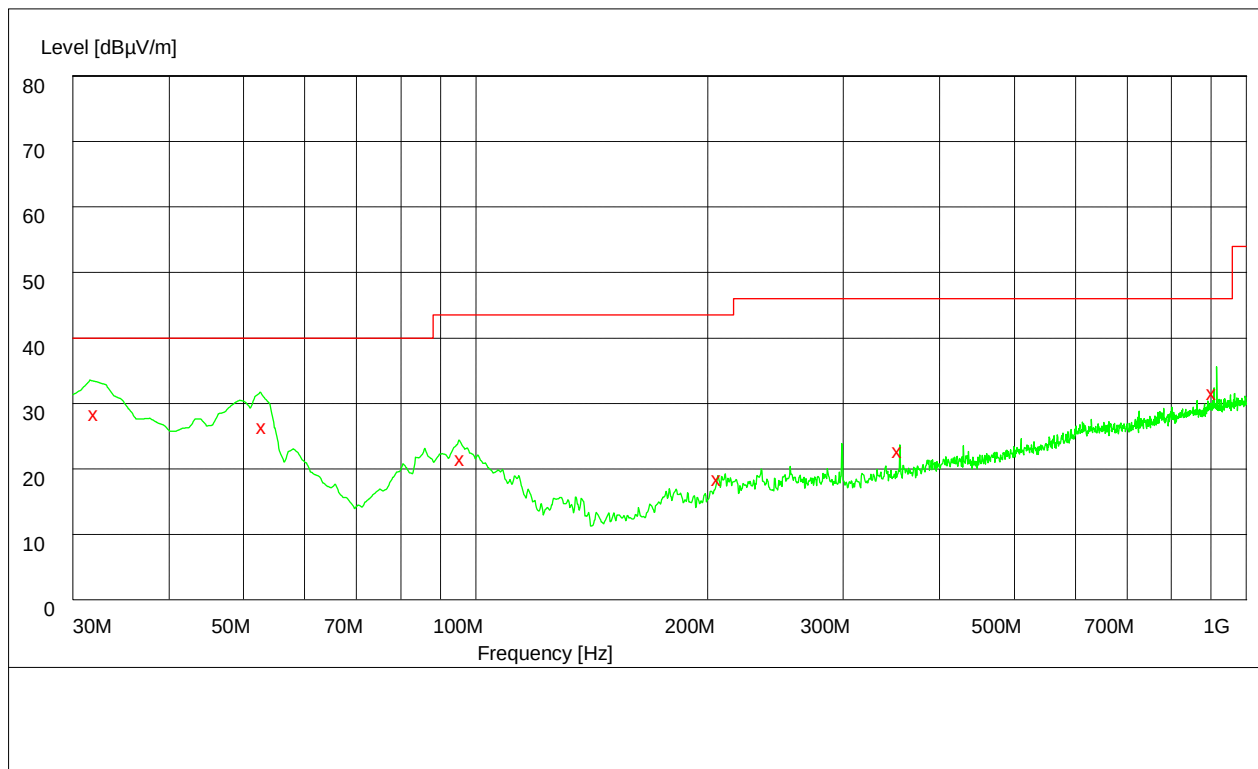


Appendix F: Radiated spurious emission

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

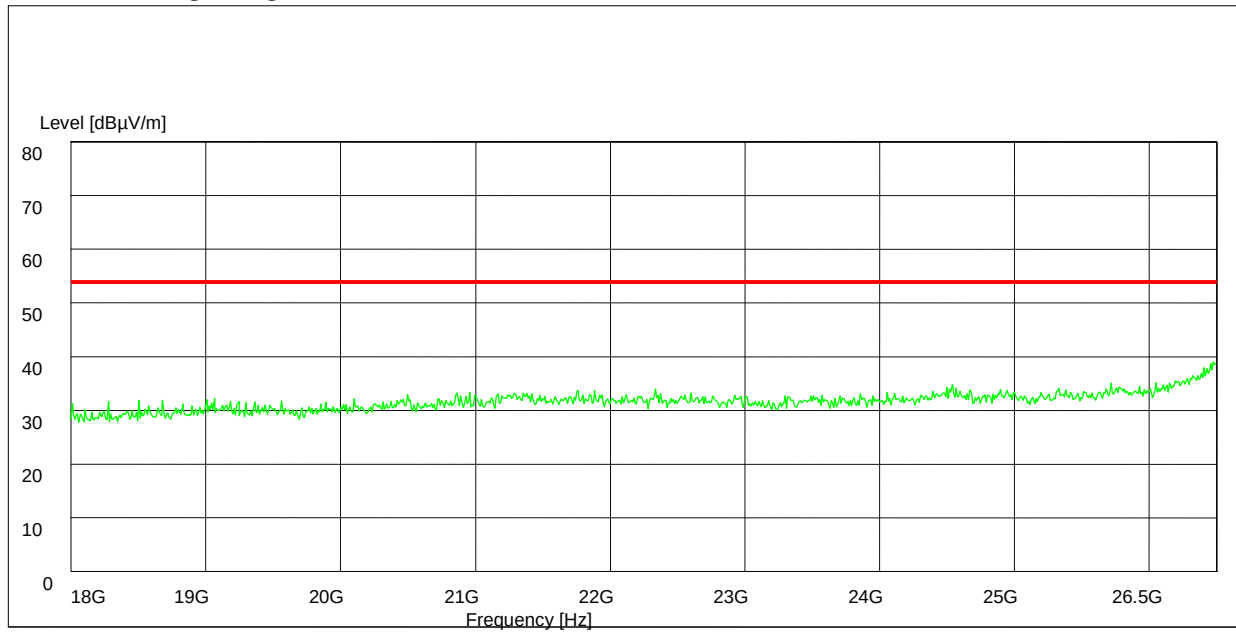
Note 1: The test results and plot for testing range of “30 MHz to 1 GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

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
32.160000	29.90	14.0	40.0	10.1	100.0	341.00	VERTICAL
53.160000	27.90	14.7	40.0	12.1	100.0	300.00	VERTICAL
96.000000	23.00	12.9	43.5	20.5	142.0	117.00	VERTICAL
206.940000	19.90	12.6	43.5	23.6	136.0	340.00	HORIZONTAL
355.440000	24.20	16.7	46.0	21.8	103.0	330.00	HORIZONTAL
908.340000	33.10	25.1	46.0	12.9	132.0	276.00	HORIZONTAL

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



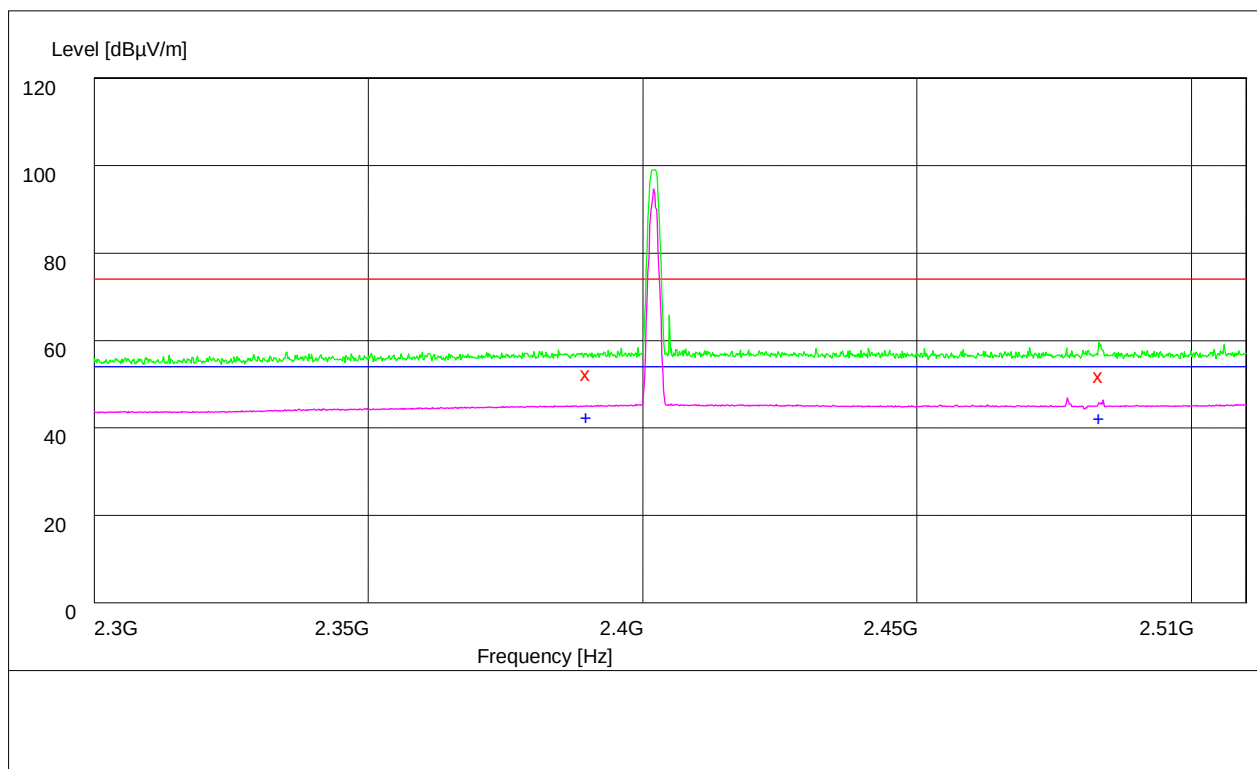
Note: No peak found in pre- test.

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.

3 Test Mode:

3.1 Channel 0



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

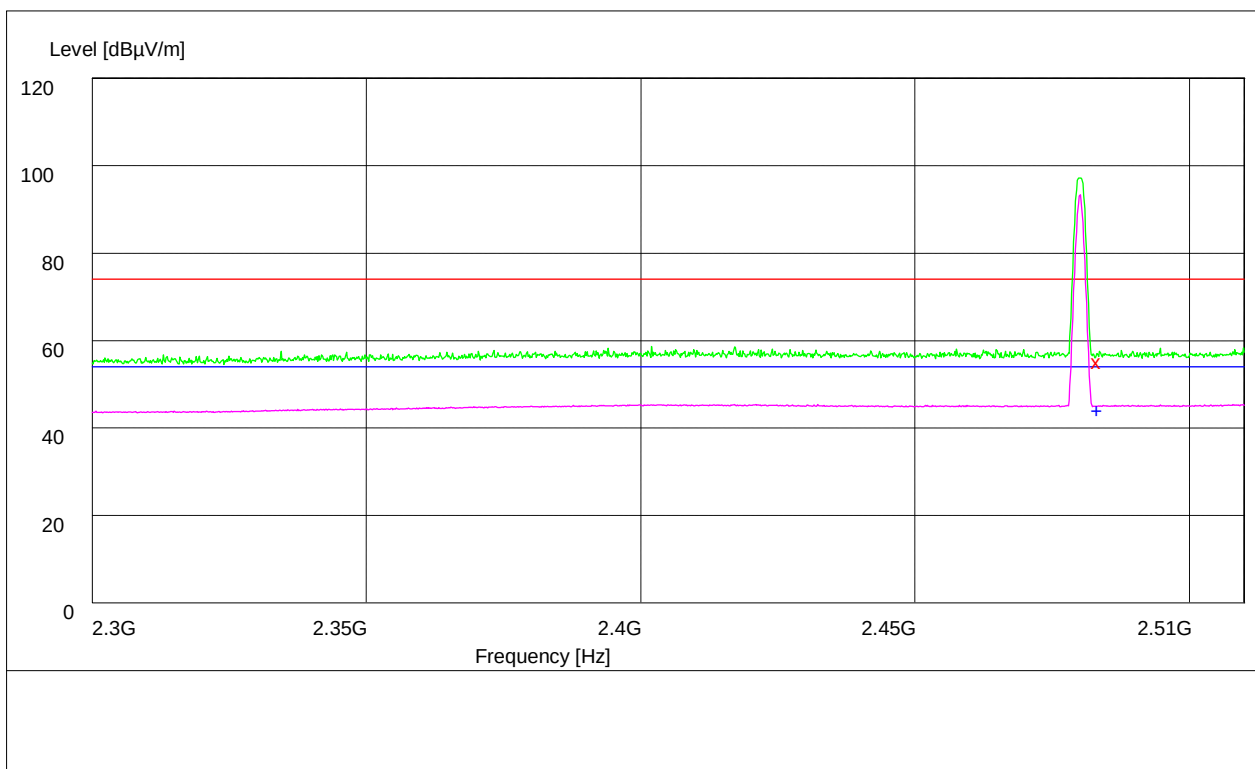
MEASUREMENT RESULT: PK Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	54.50	34.7	74.0	19.5	108.0	297.00	VERTICAL
2483.500000	54.10	35.0	74.0	19.9	196.0	82.00	HORIZONTAL

MEASUREMENT RESULT: AVDetector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2390.000000	44.40	34.7	54.0	9.6	200.0	284.00	VERTICAL
2483.500000	44.20	35.0	54.0	9.8	100.0	120.00	HORIZONTAL

3.2 Channel 39



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

MEASUREMENT RESULT: PK Detector

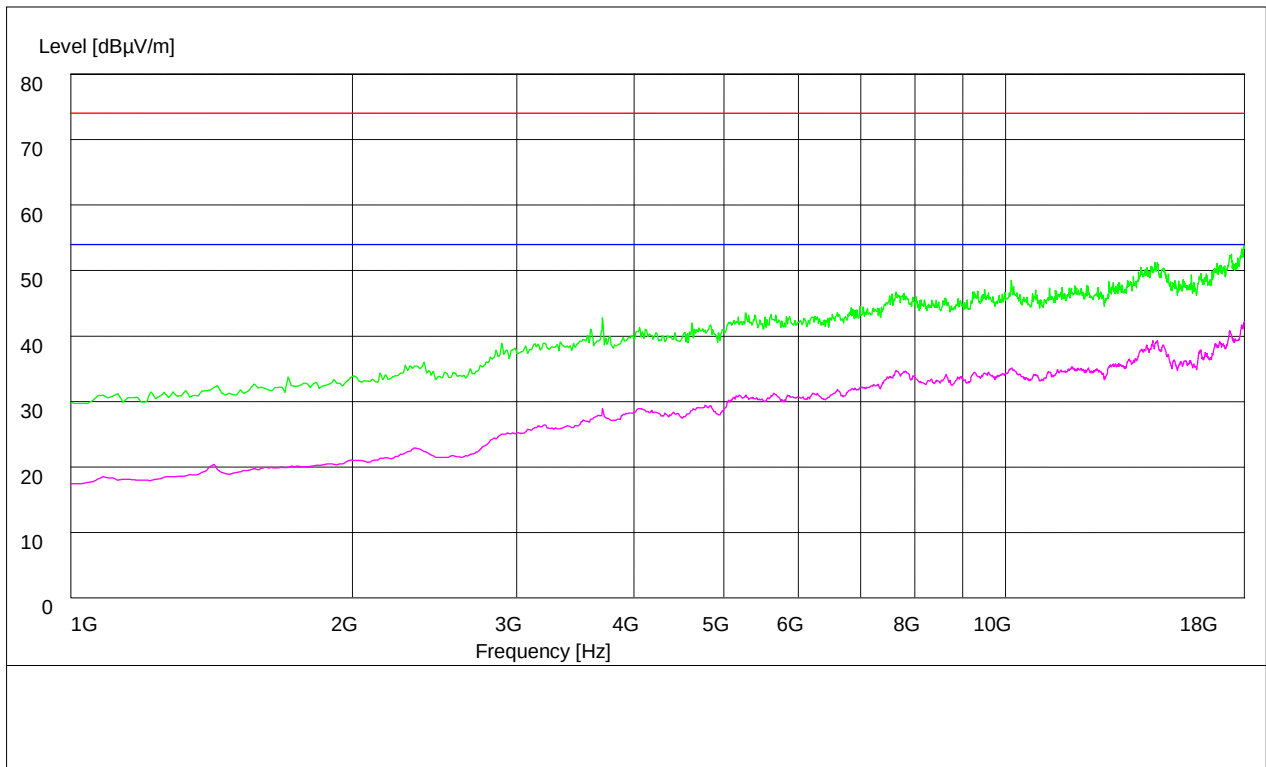
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	57.20	35.0	74.0	16.8	100.0	319.00	VERTICAL

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2483.500000	46.10	35.0	54.0	7.9	100.0	318.00	VERTICAL

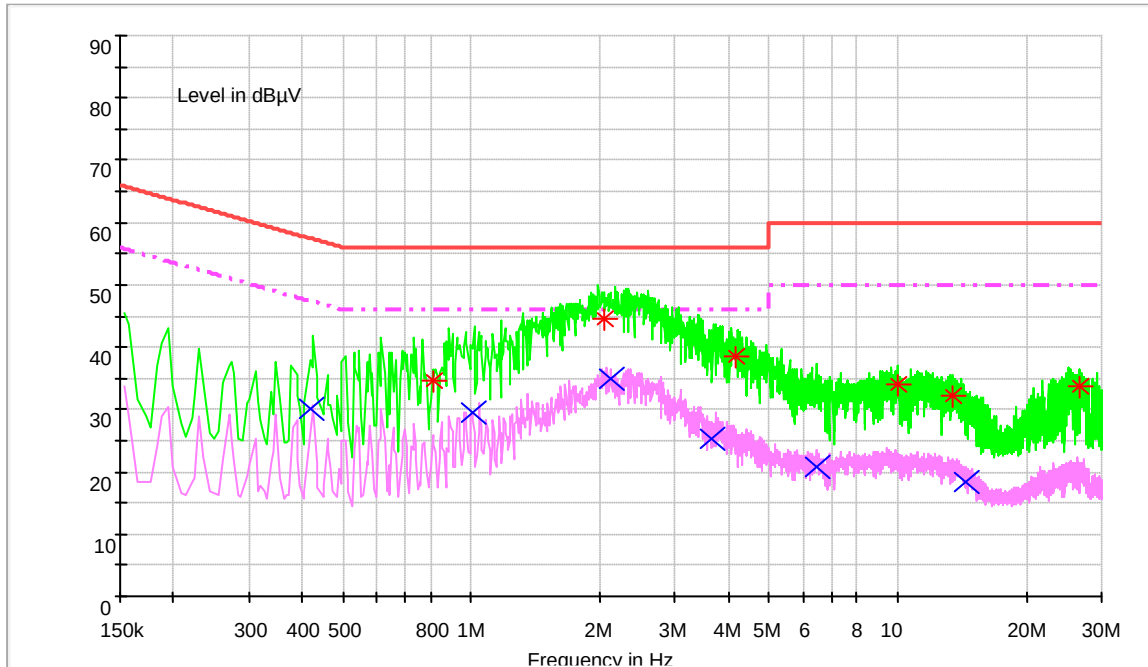
Part 4: Testing Range of “1 GHz to 18 GHz”

- 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: Conducted Emission at Power Port

Channel 19



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.810946	34.5	9.7	56	21.5	L1	FLO
2.040382	44.5	9.7	56	11.5	N	FLO
4.149888	38.6	9.8	56	17.4	L1	FLO
9.959269	34	9.9	60	26	L1	FLO
13.42511	32.2	10	60	27.8	N	FLO
26.50107	33.7	10.2	60	26.3	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.422174	30.1	9.7	47.4	17.3	L1	FLO
1.004464	29.5	9.7	46	16.5	L1	FLO
2.115098	35	9.7	46	11	L1	FLO
3.645195	25.2	9.7	46	20.8	N	FLO
6.460204	20.7	9.8	50	29.3	N	FLO
14.37888	18.4	10	50	31.6	L1	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