



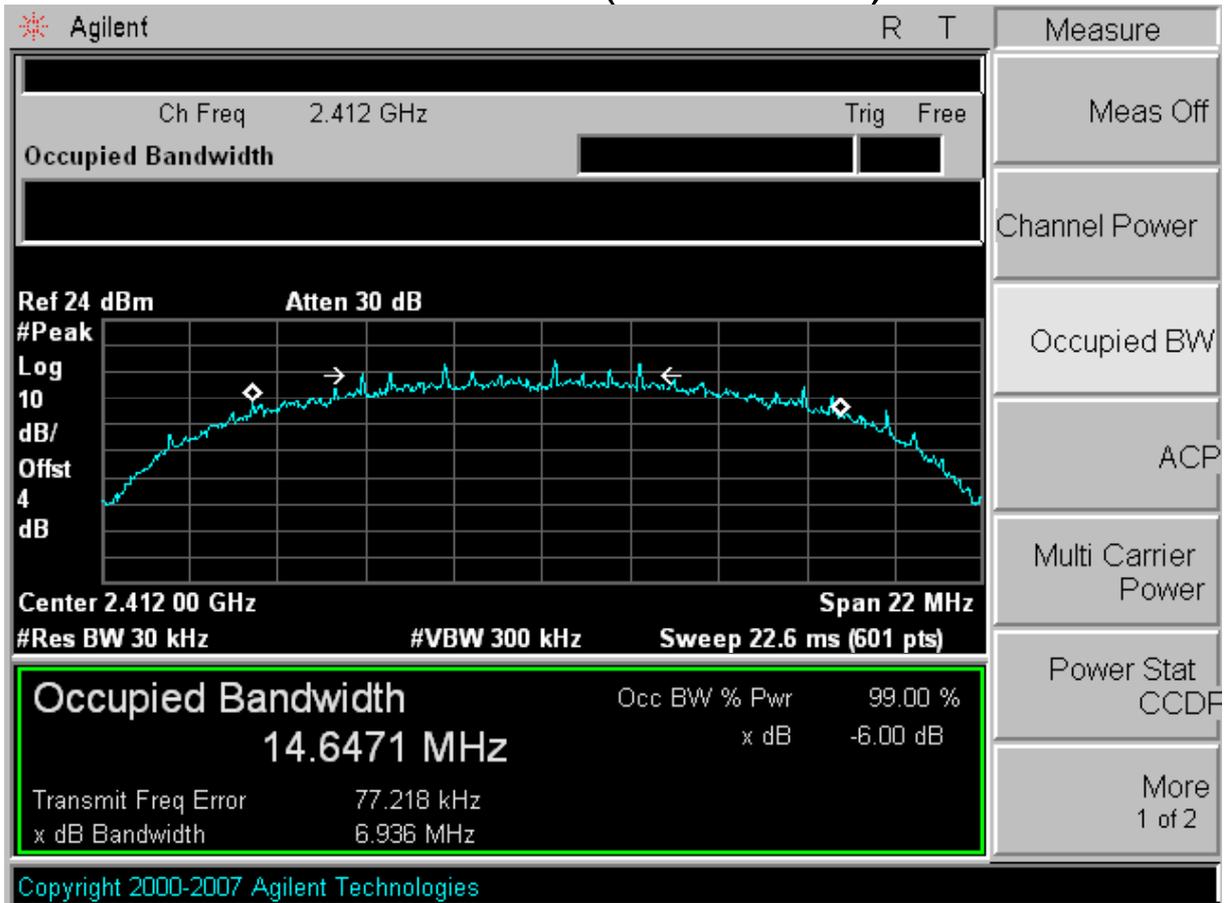
# **Appendix A**

## 6dB bandwidth measurement

According to FCC Part 15.247 (a) (2)

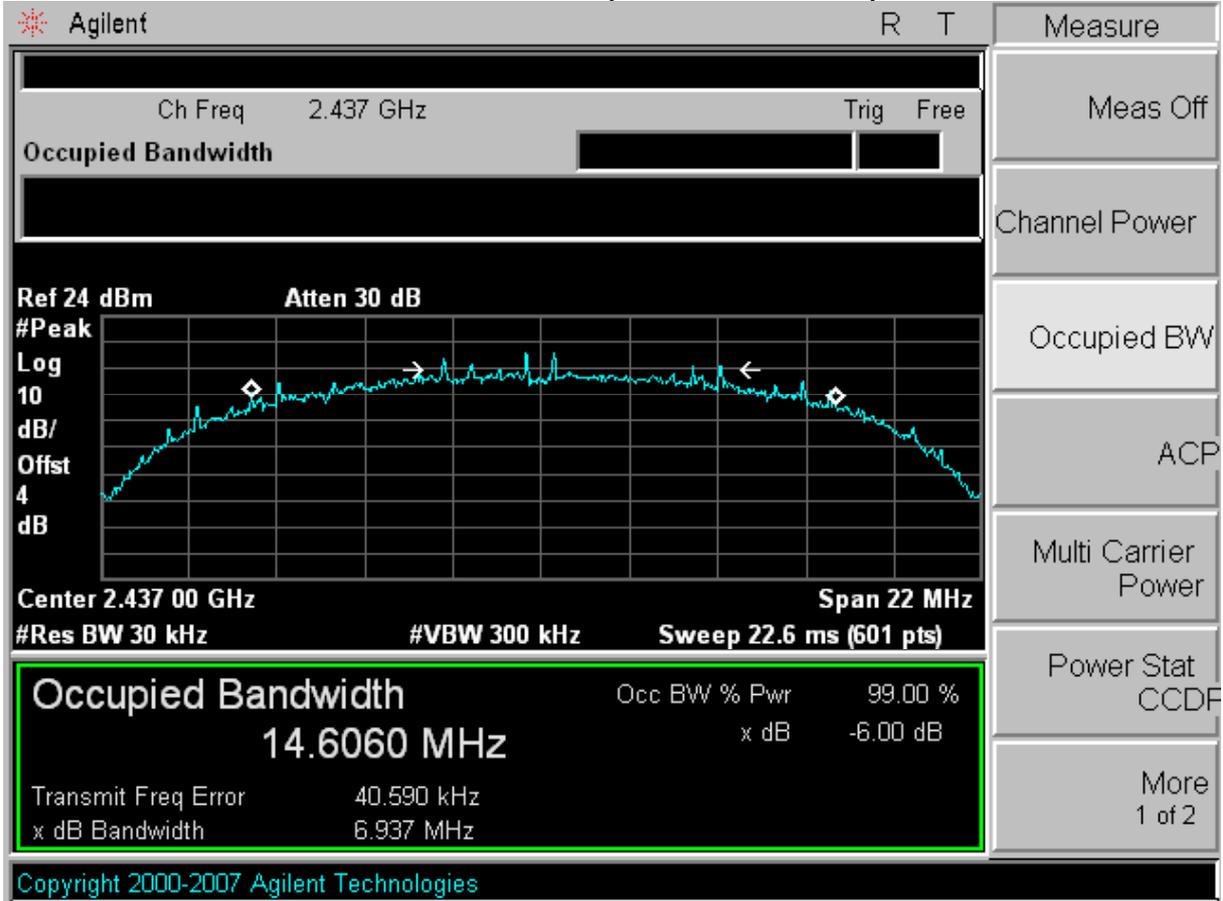


# TM1 Channel 1 (2412MHz)



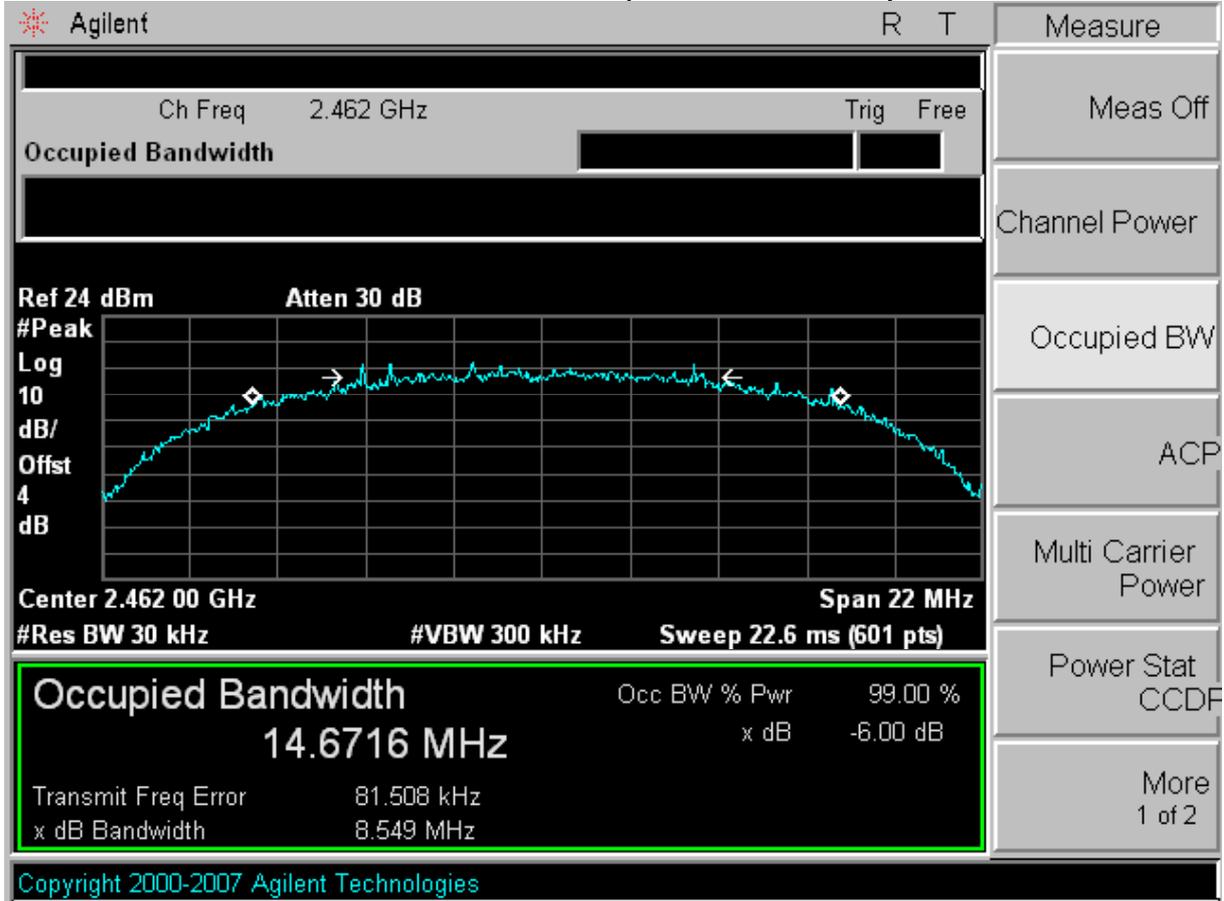


# Channel 6 (2437MHz)





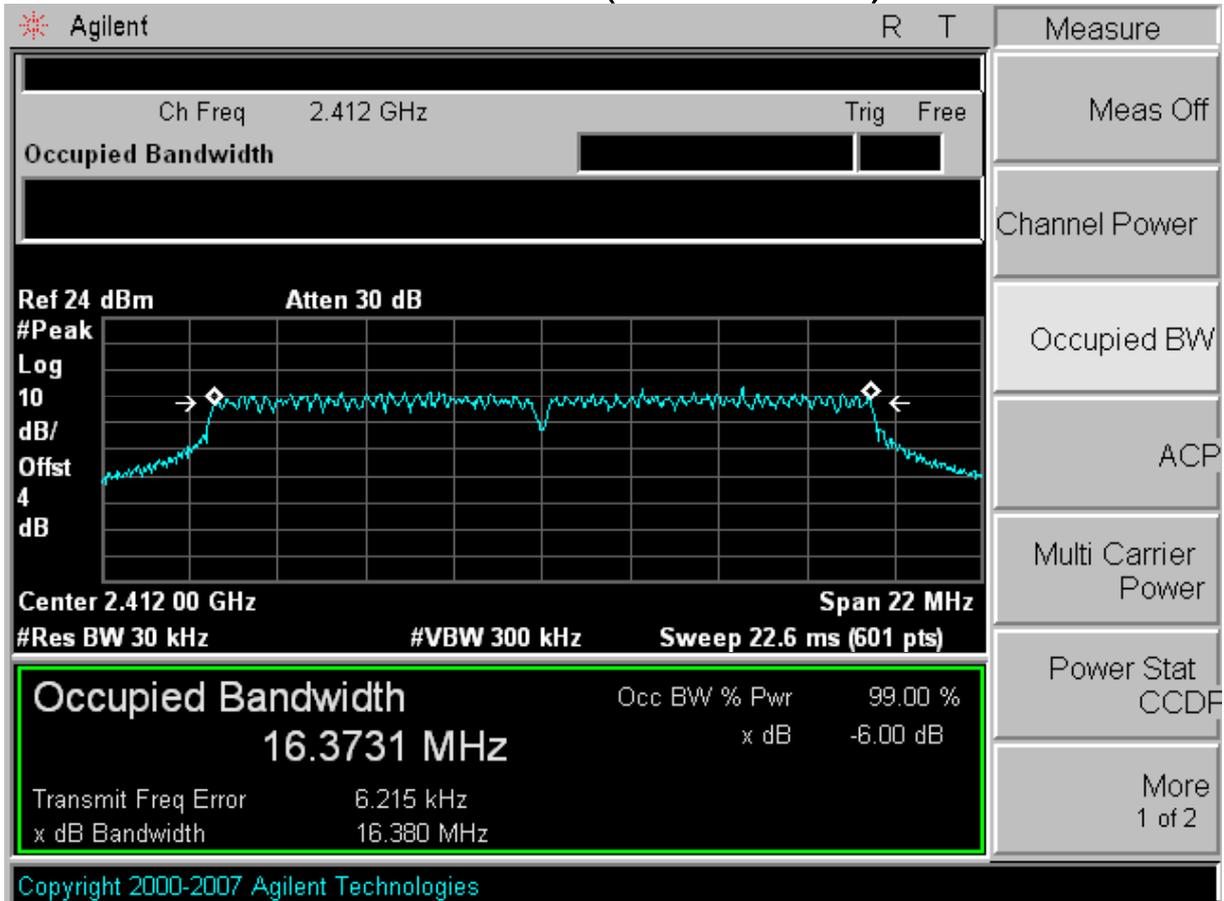
# Channel 11 (2462MHz)





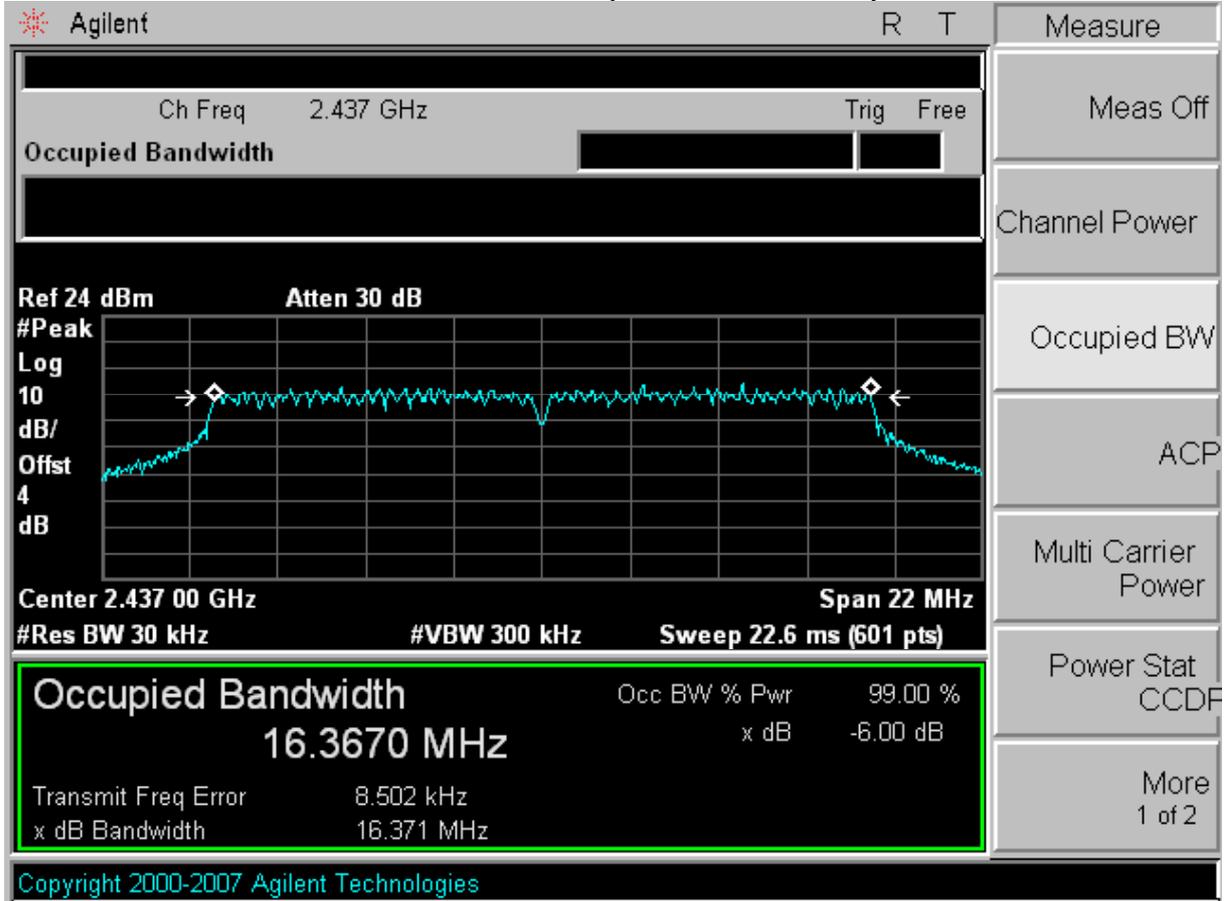
# TM2

## Channel 1 (2412MHz)



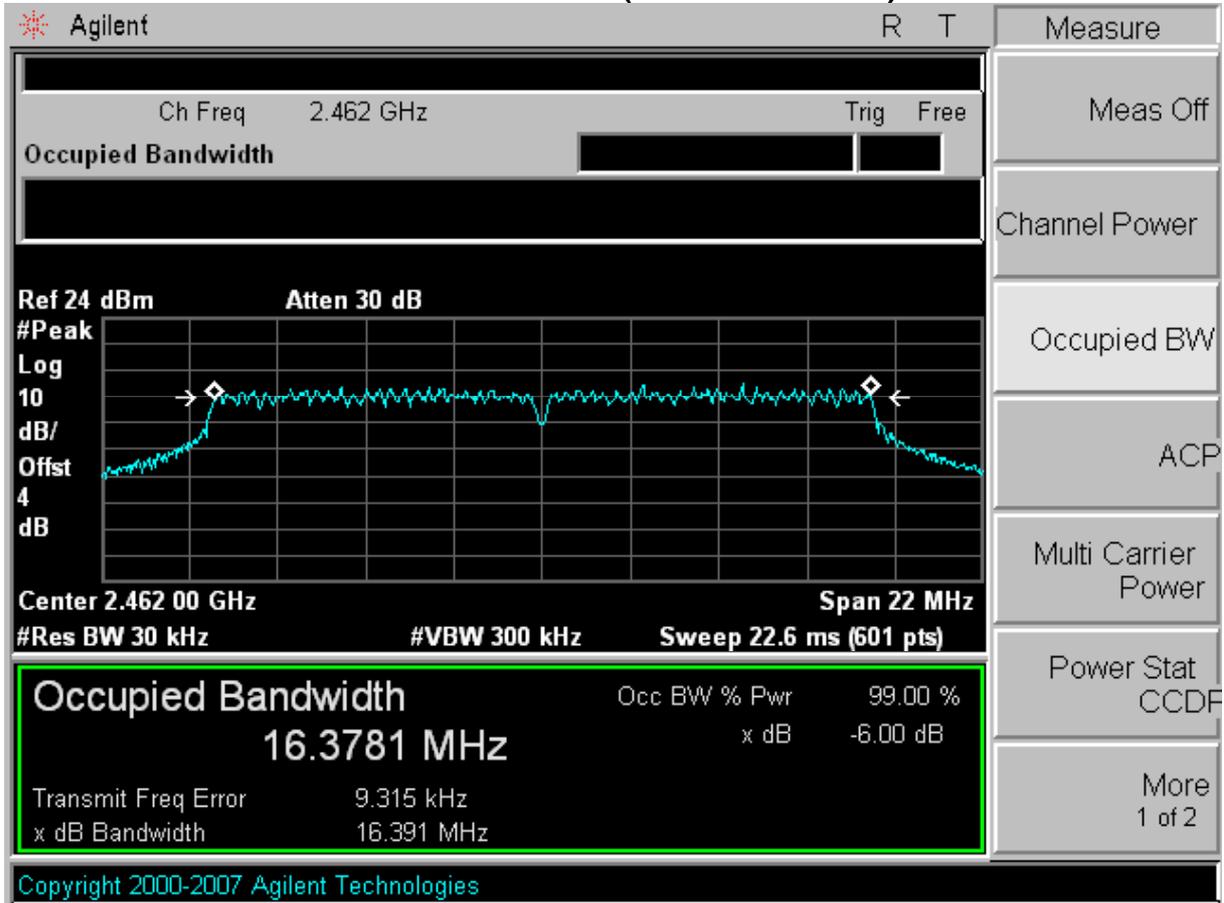


## Channel 6 (2437MHz)





## Channel 11 (2462MHz)





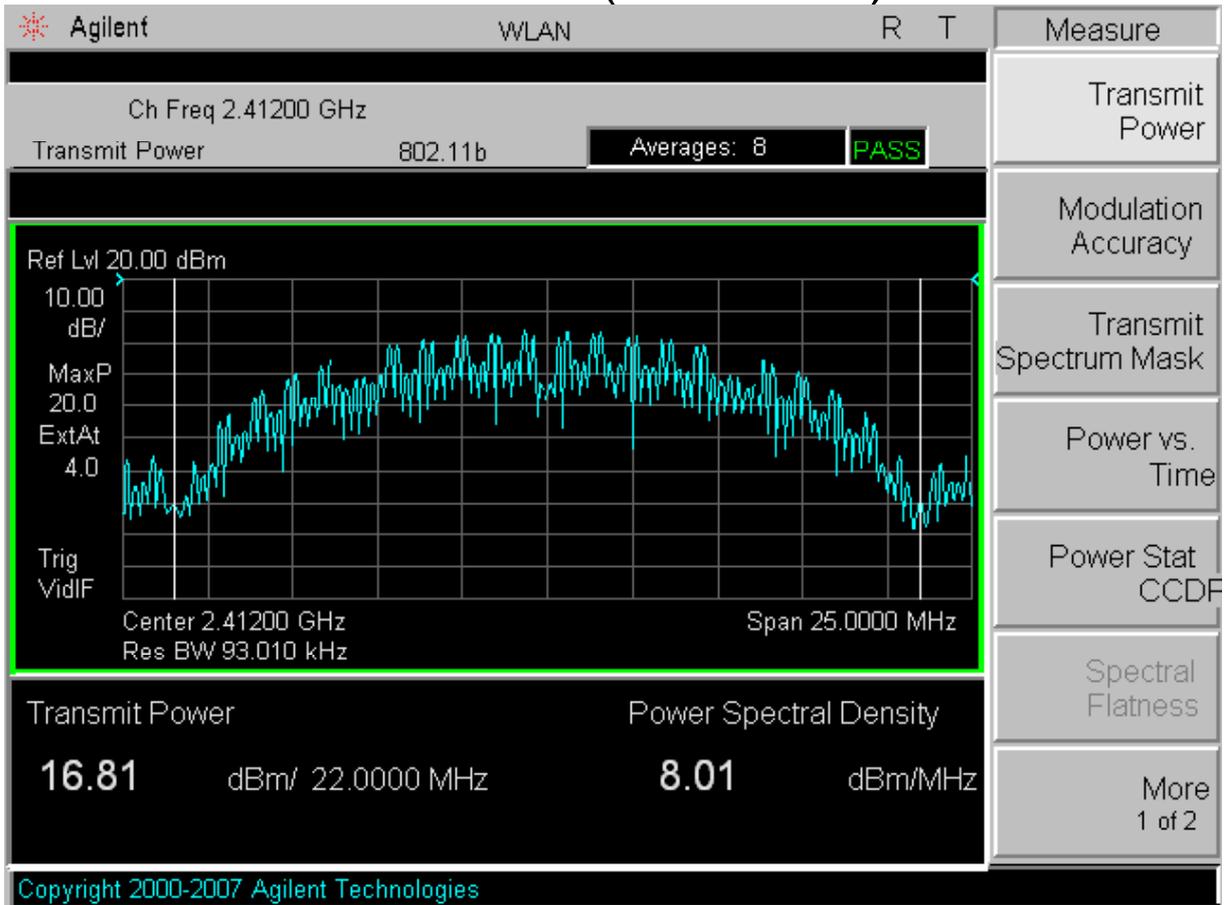
## **Appendix B**

# Conducted Peak output power

According to FCC Part 15.247 (b) (3)

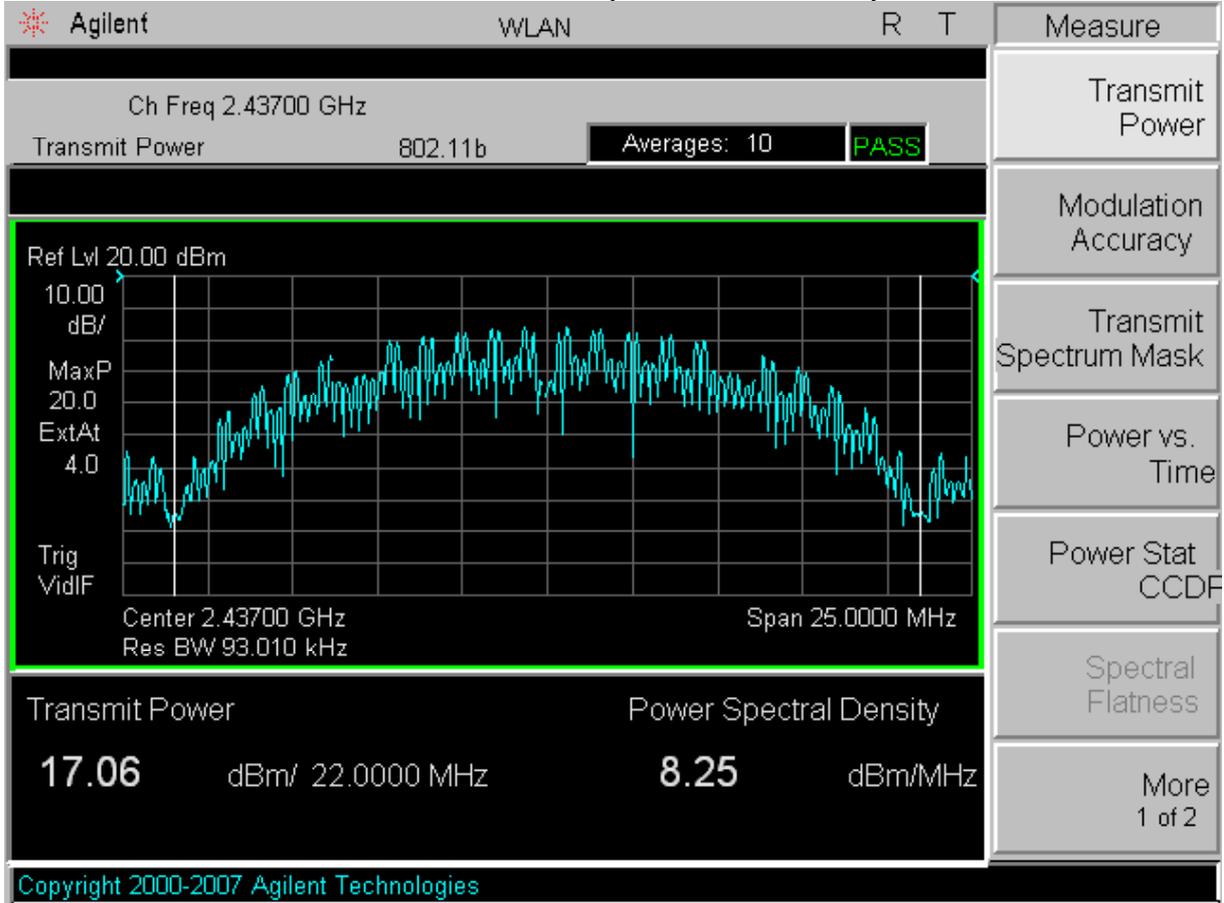


# TM1 Channel 1 (2412MHz)





# Channel 6 (2437MHz)





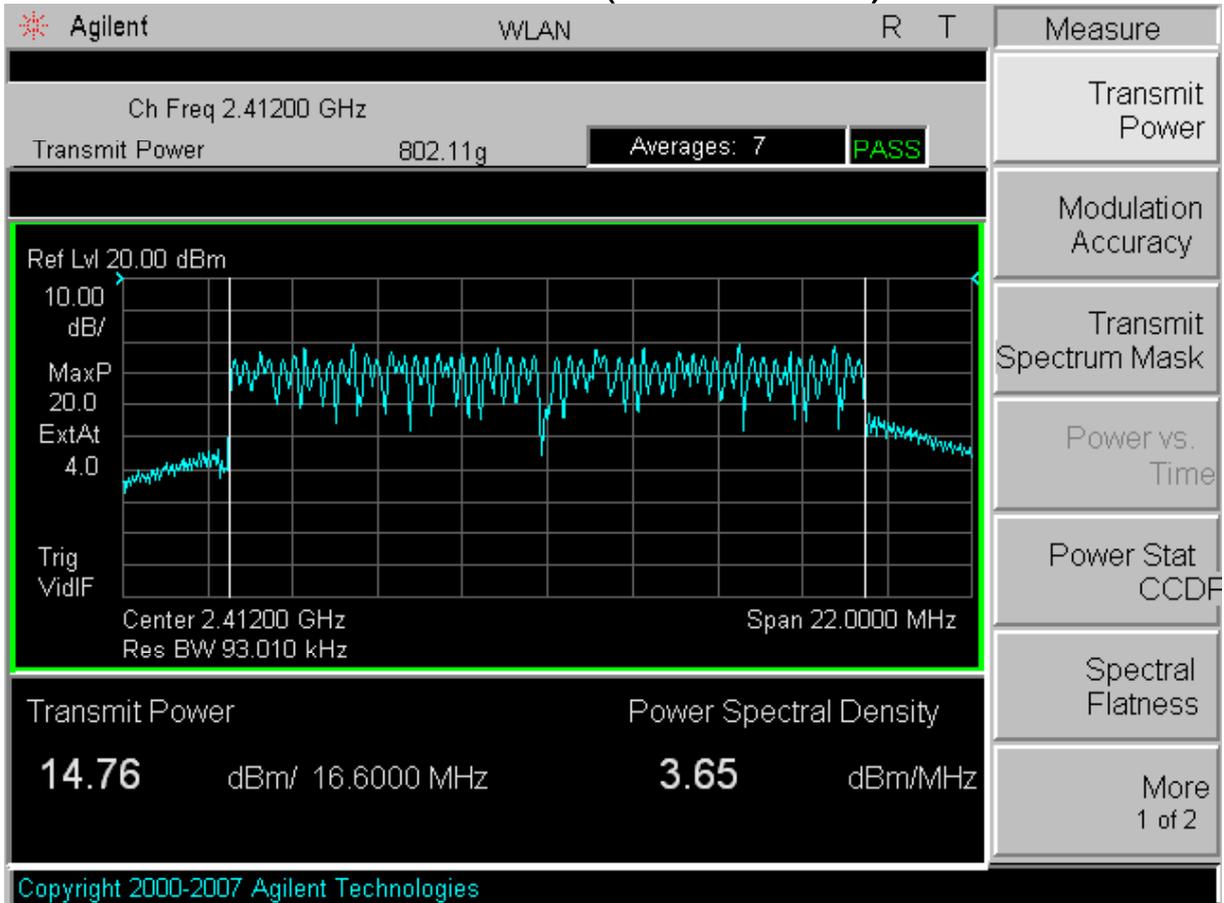
# Channel 11 (2462MHz)

Agilent	WLAN	R	T	Measure
Ch Freq 2.46200 GHz				Transmit Power
Transmit Power		802.11b	Averages: 3	PASS
				Modulation Accuracy
Transmit Power				Transmit Spectrum Mask
Power Spectral Density				Power vs. Time
17.54 dBm/ 22.0000 MHz				Power Stat CCDF
8.72 dBm/MHz				Spectral Flatness
More 1 of 2				
Copyright 2000-2007 Agilent Technologies				



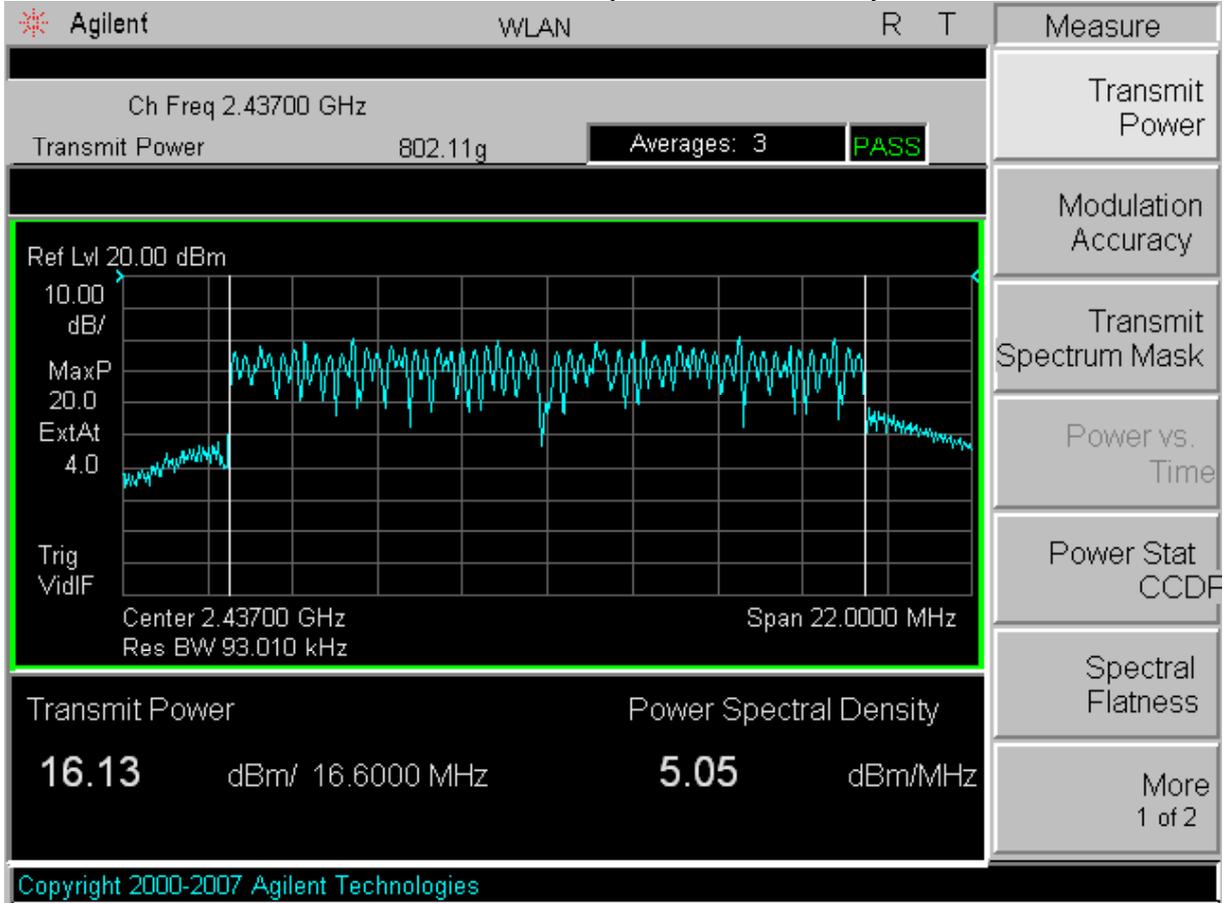
# TM2

## Channel 1 (2412MHz)



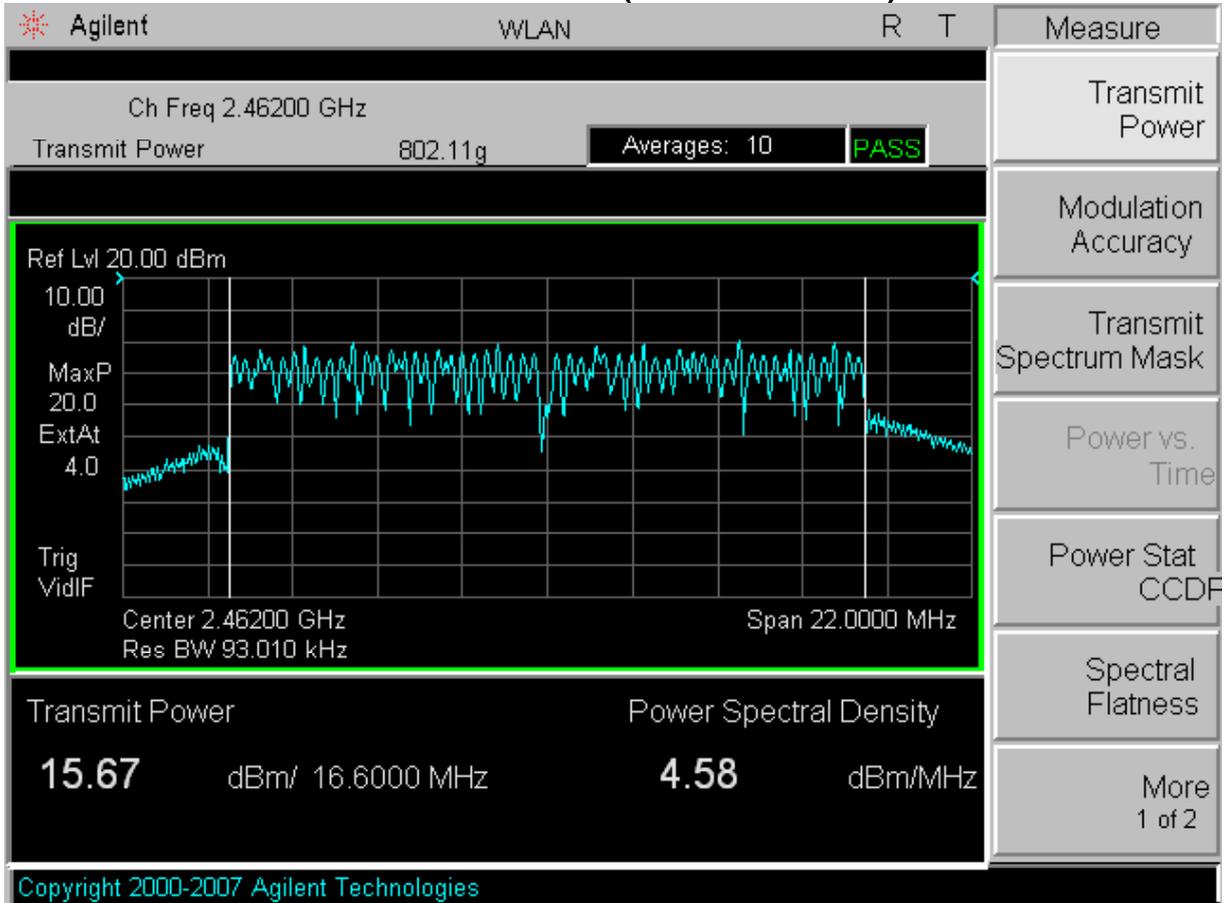


# Channel 6 (2437MHz)





# Channel 11 (2462MHz)





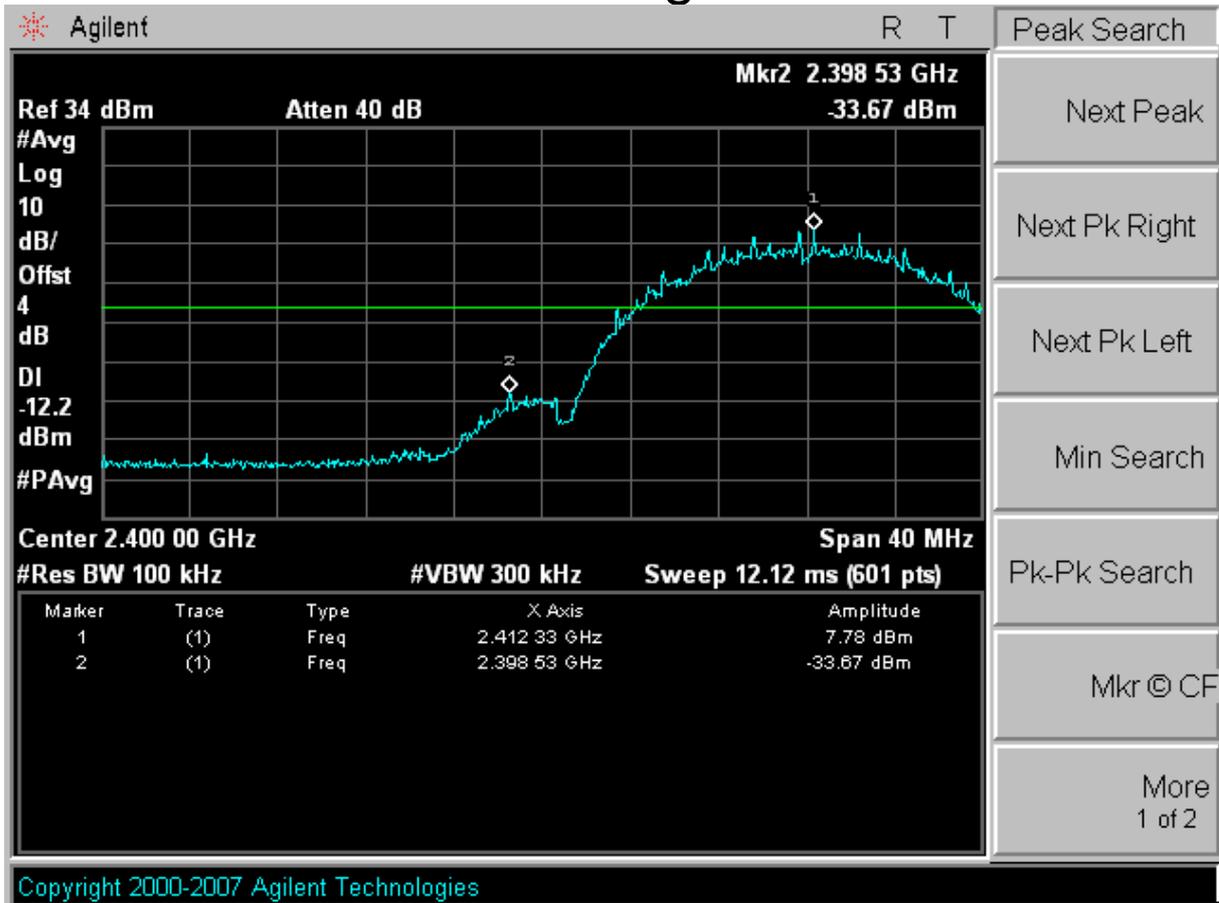
## **Appendix C**

# Band edge spurious emission

According to FCC Part 15.247 (d)

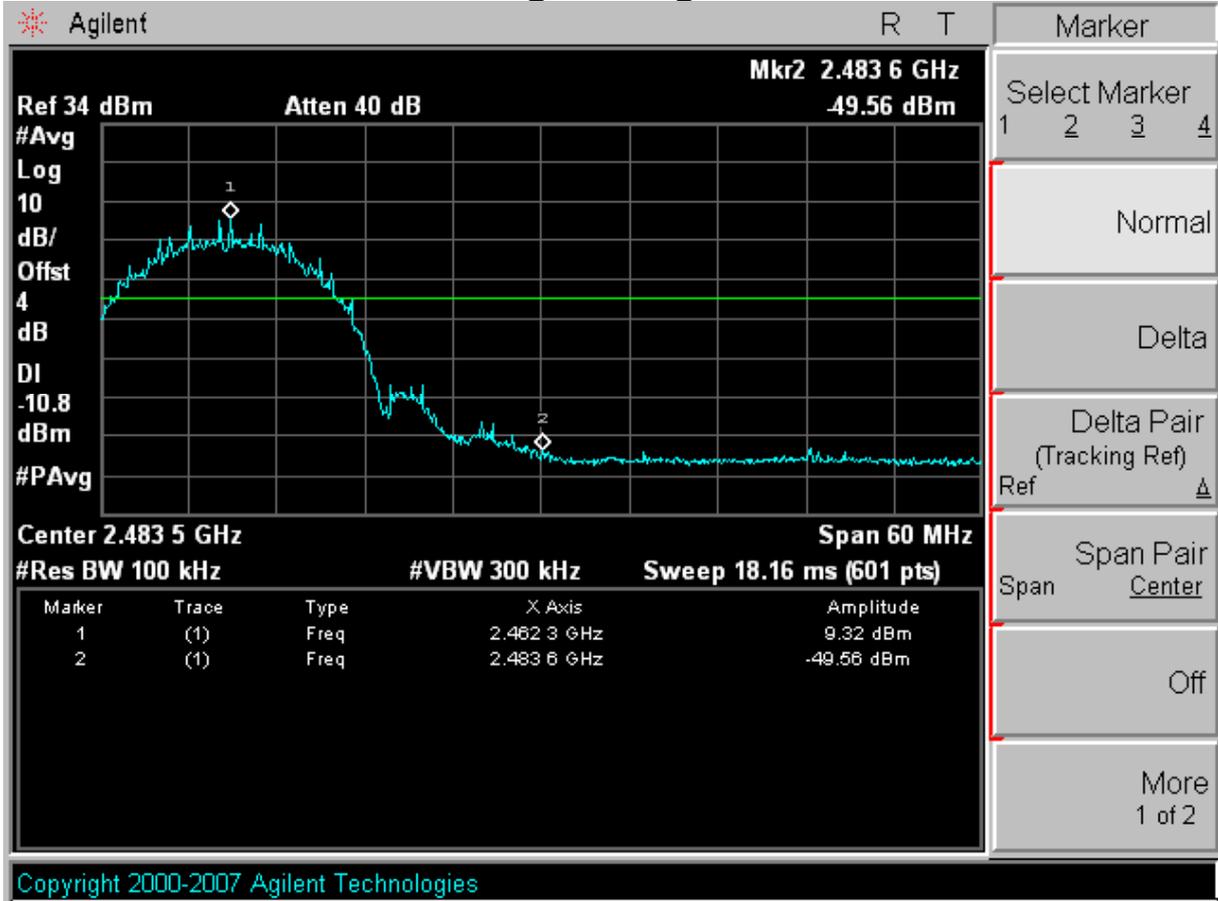


# TM1 Low edge



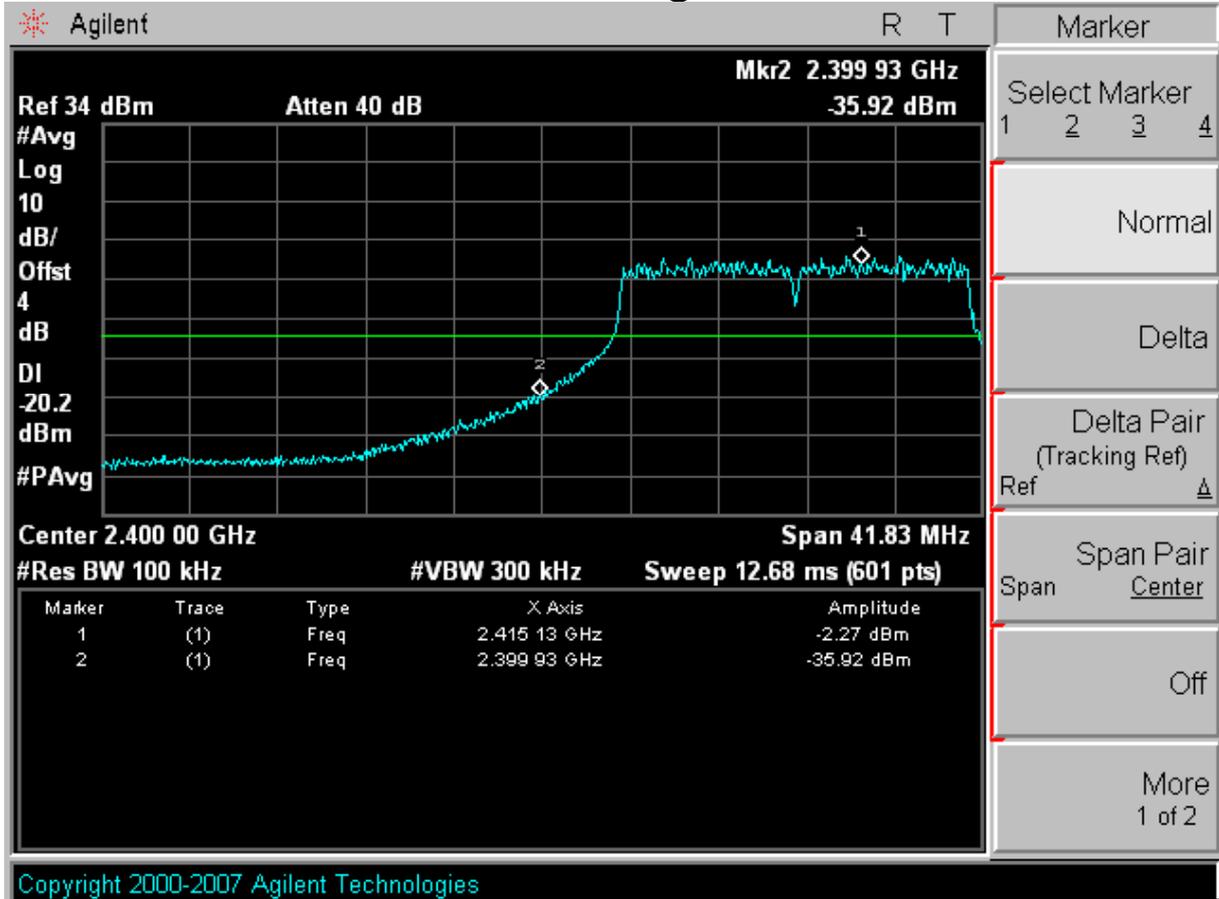


# High edge



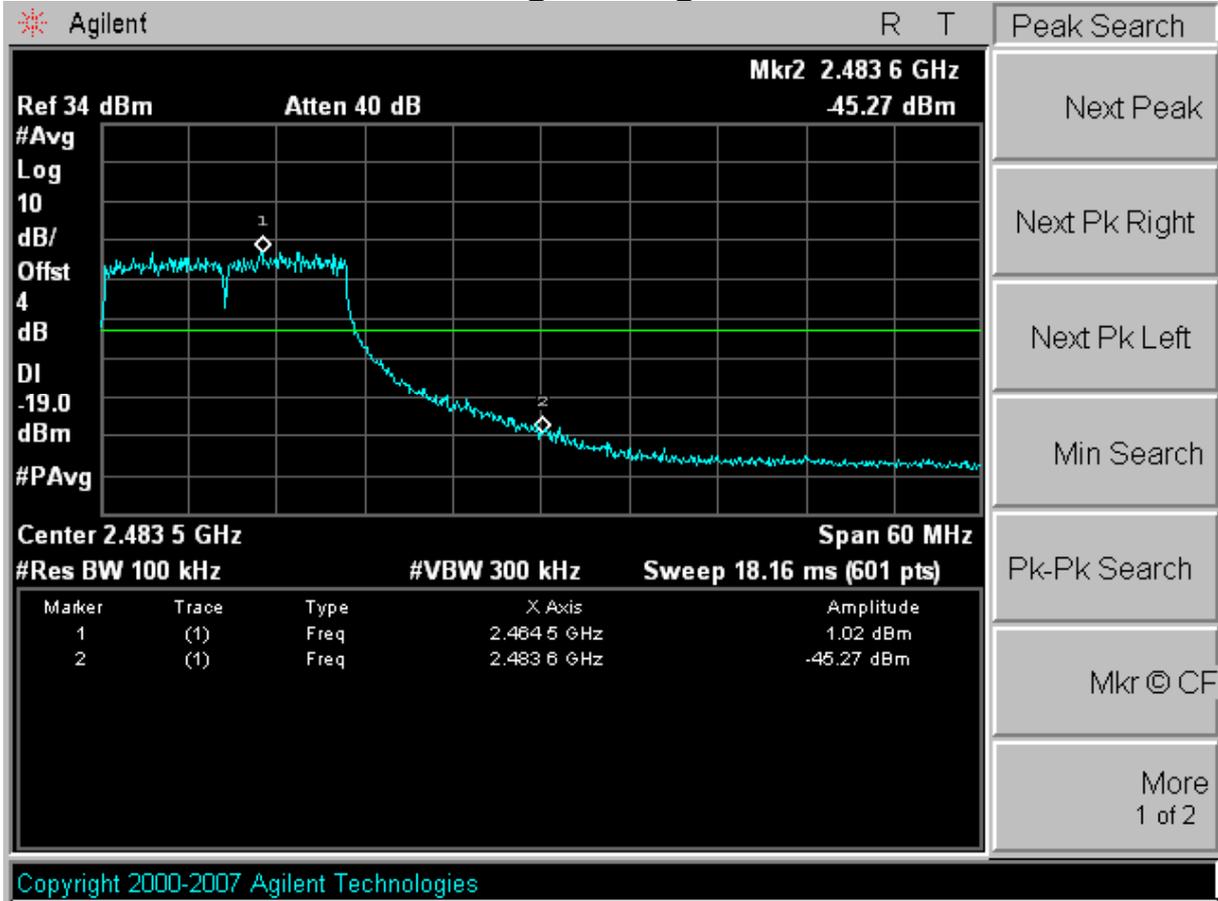


# TM2 Low edge





# High edge





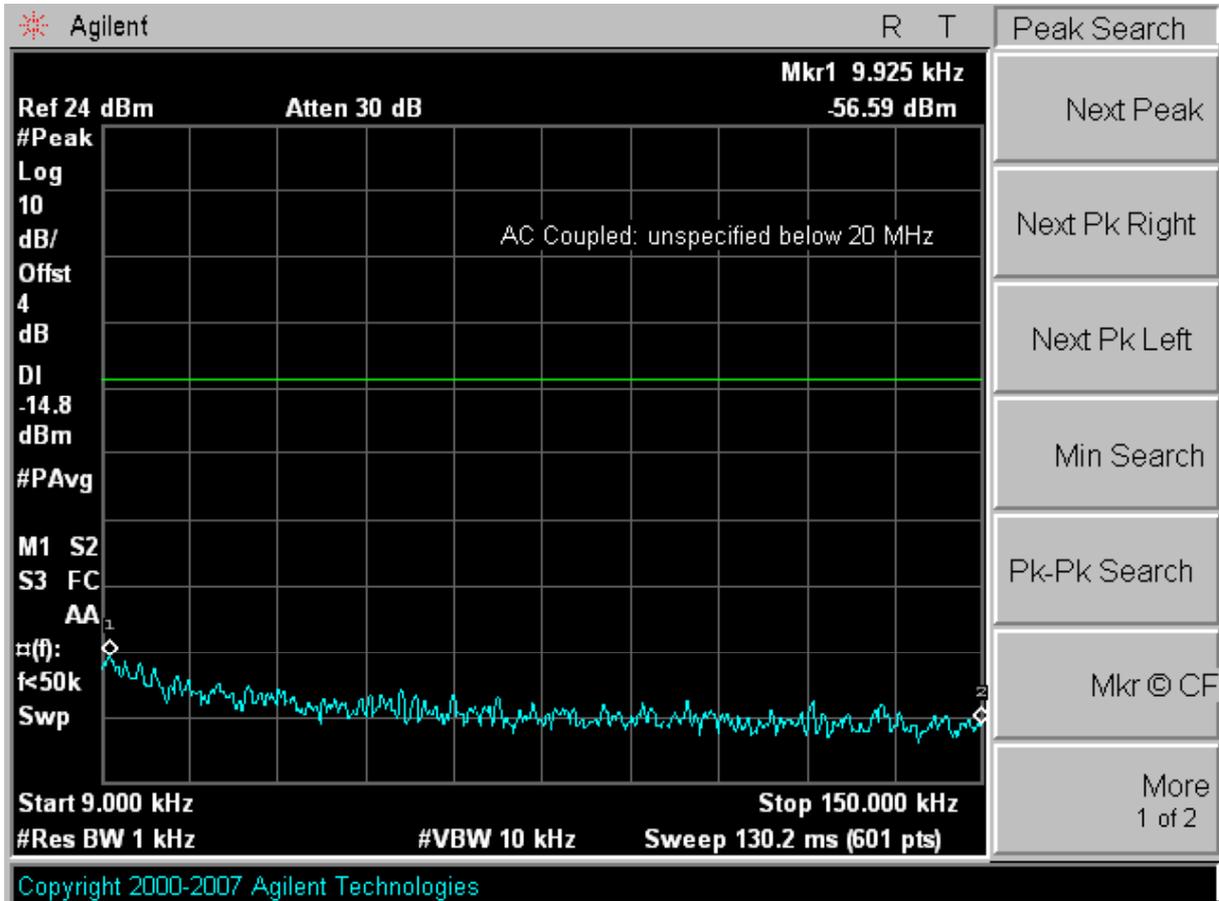
## **Appendix D**

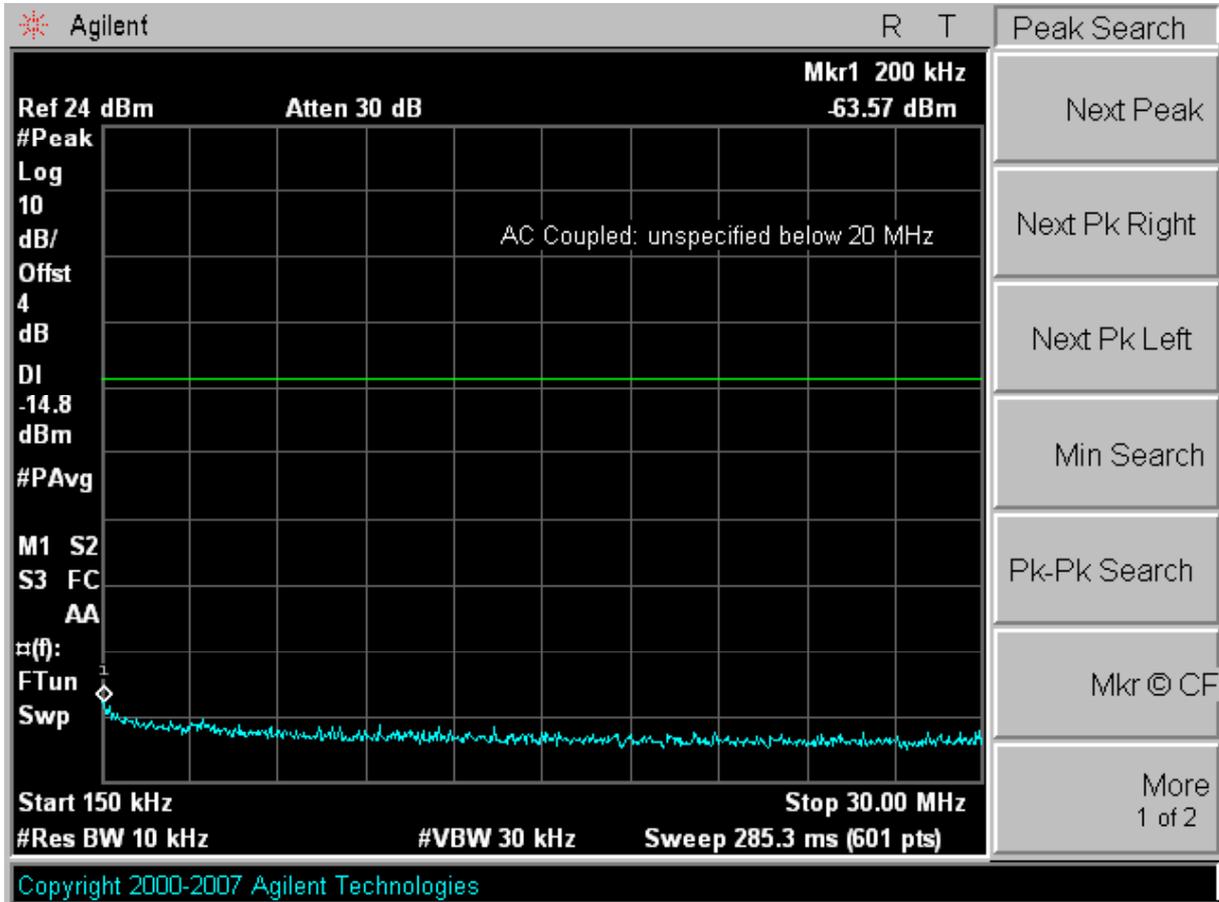
# Conducted RF spurious

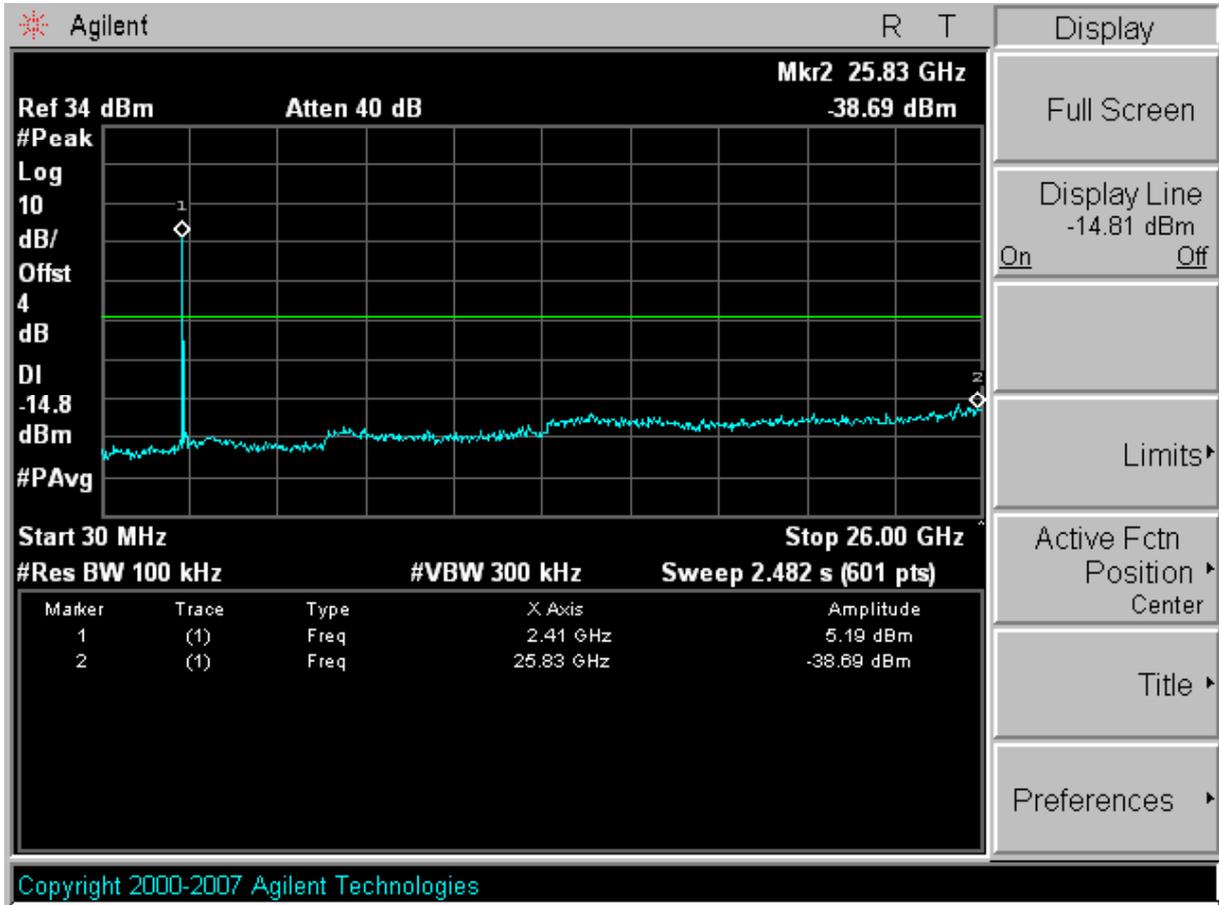
According to FCC Part 15.247 (d)



# TM1 Channel 1

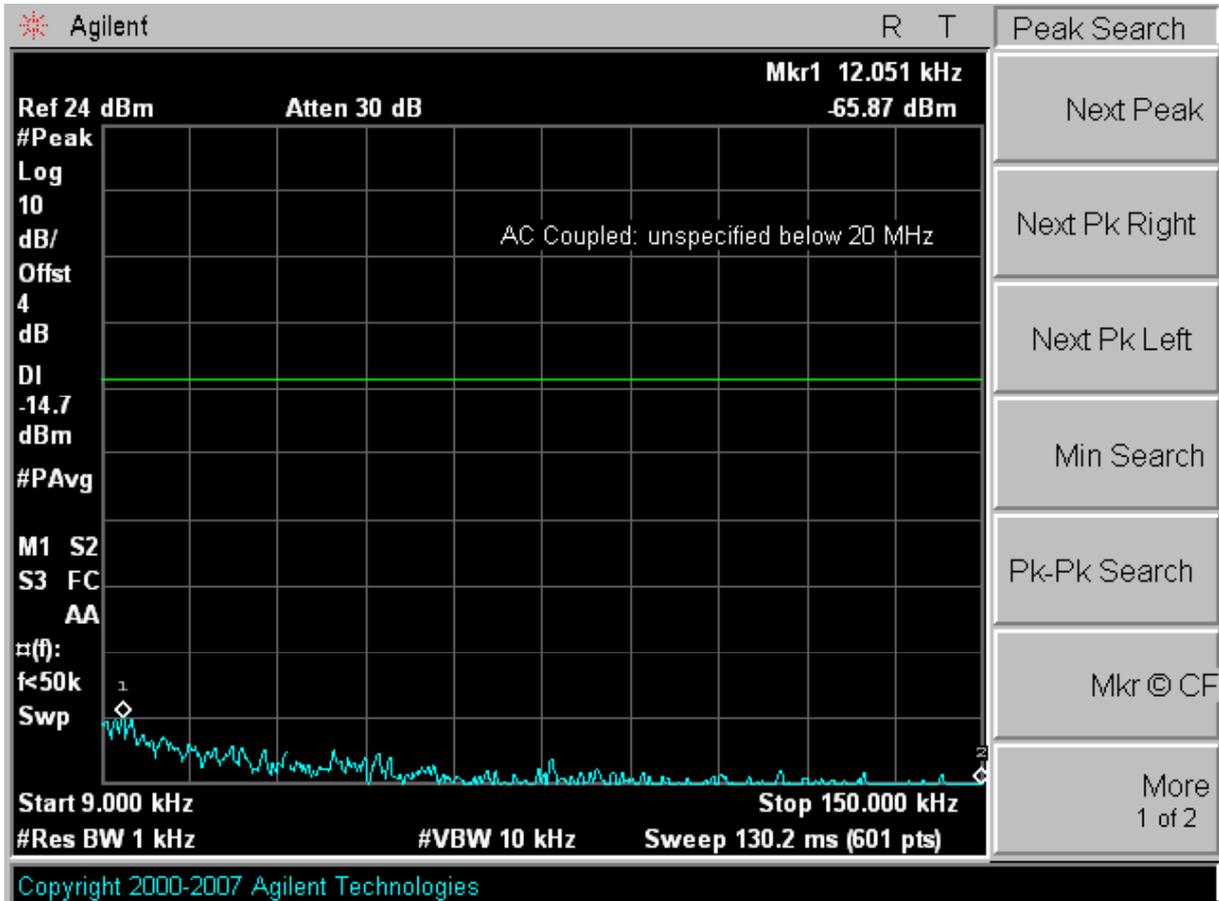


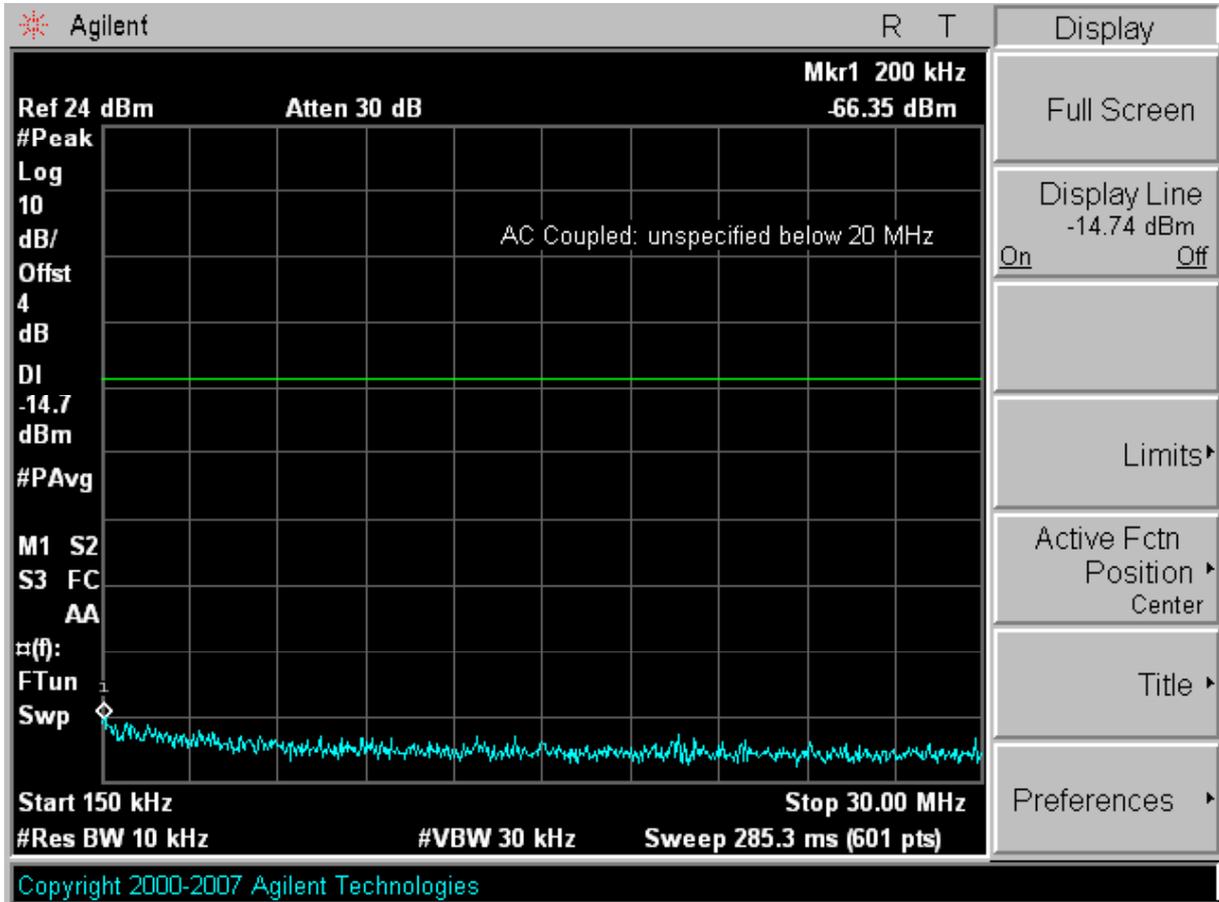


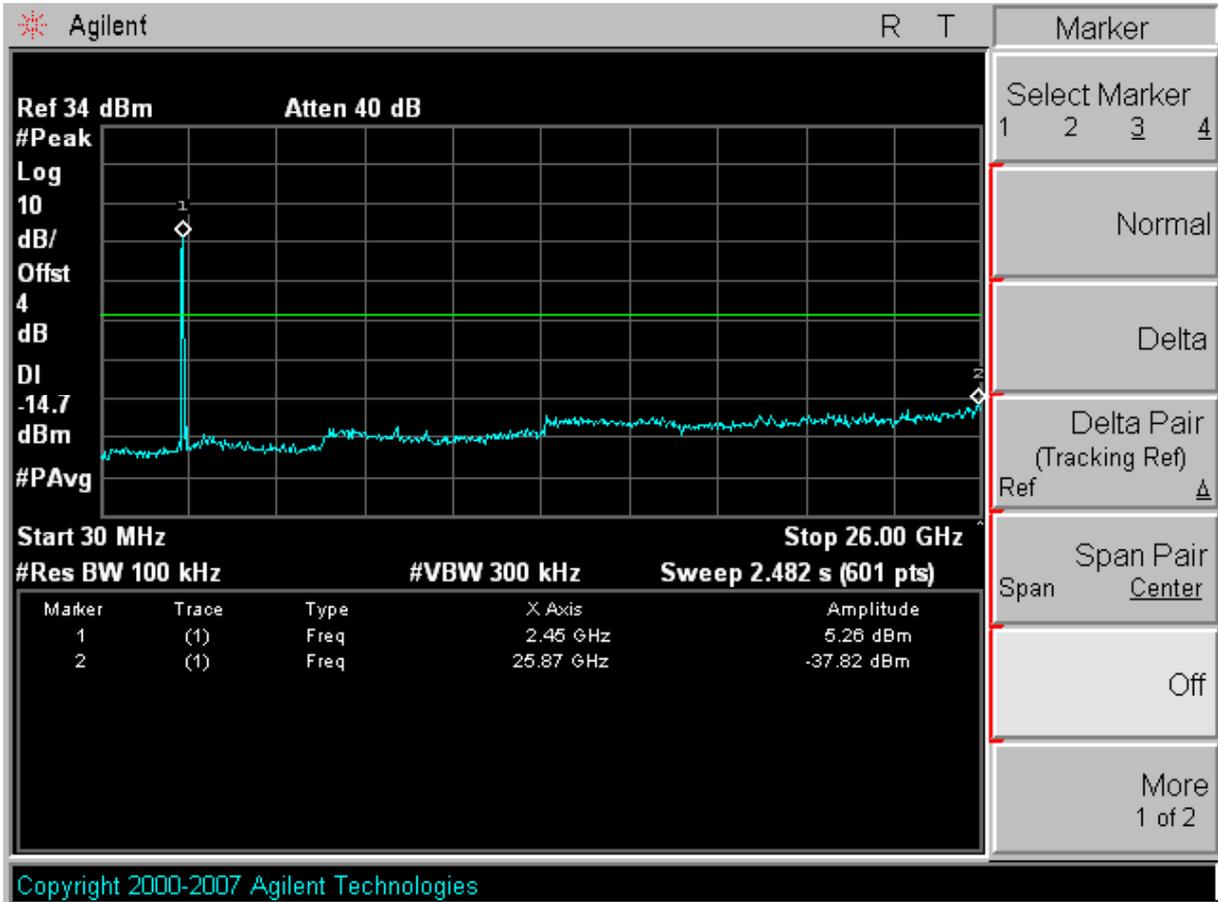




## Channel 6

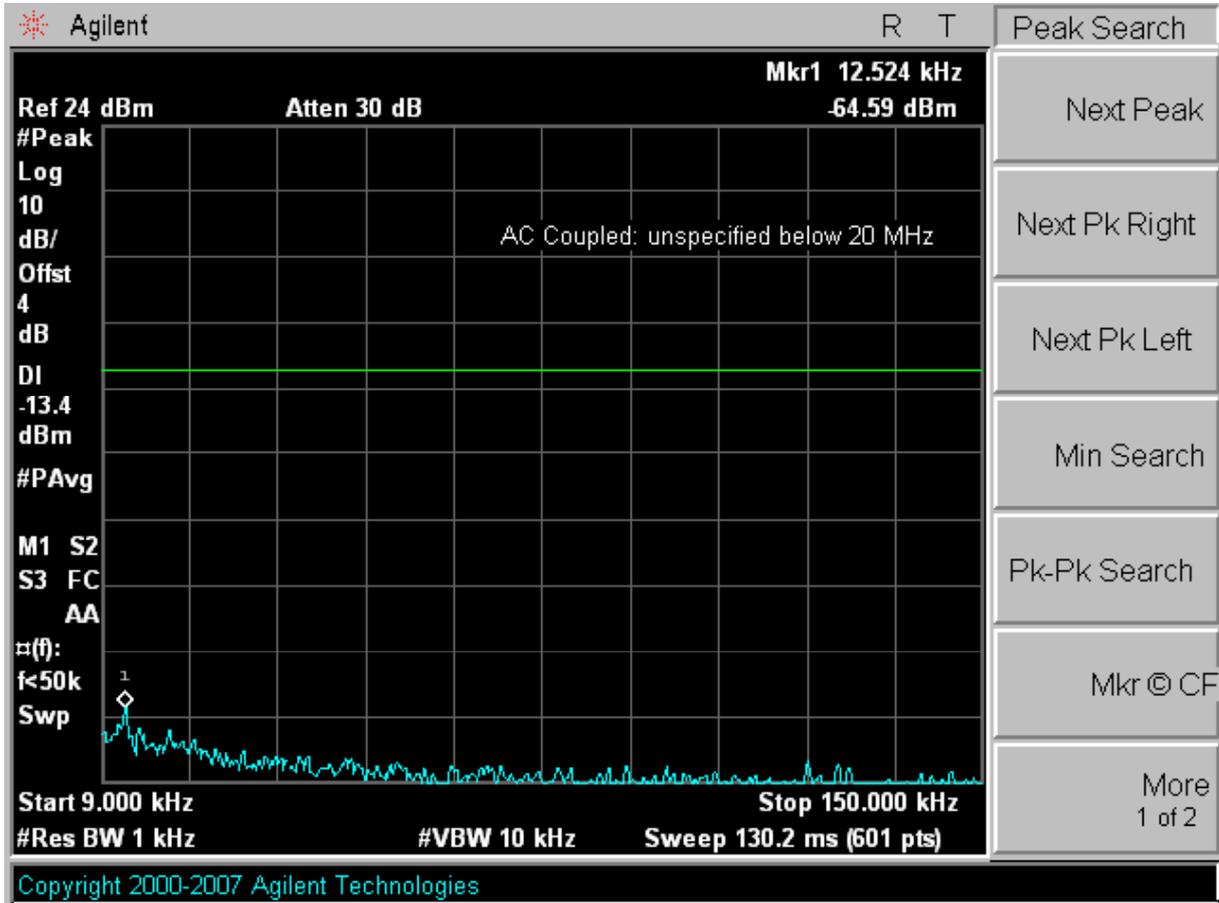


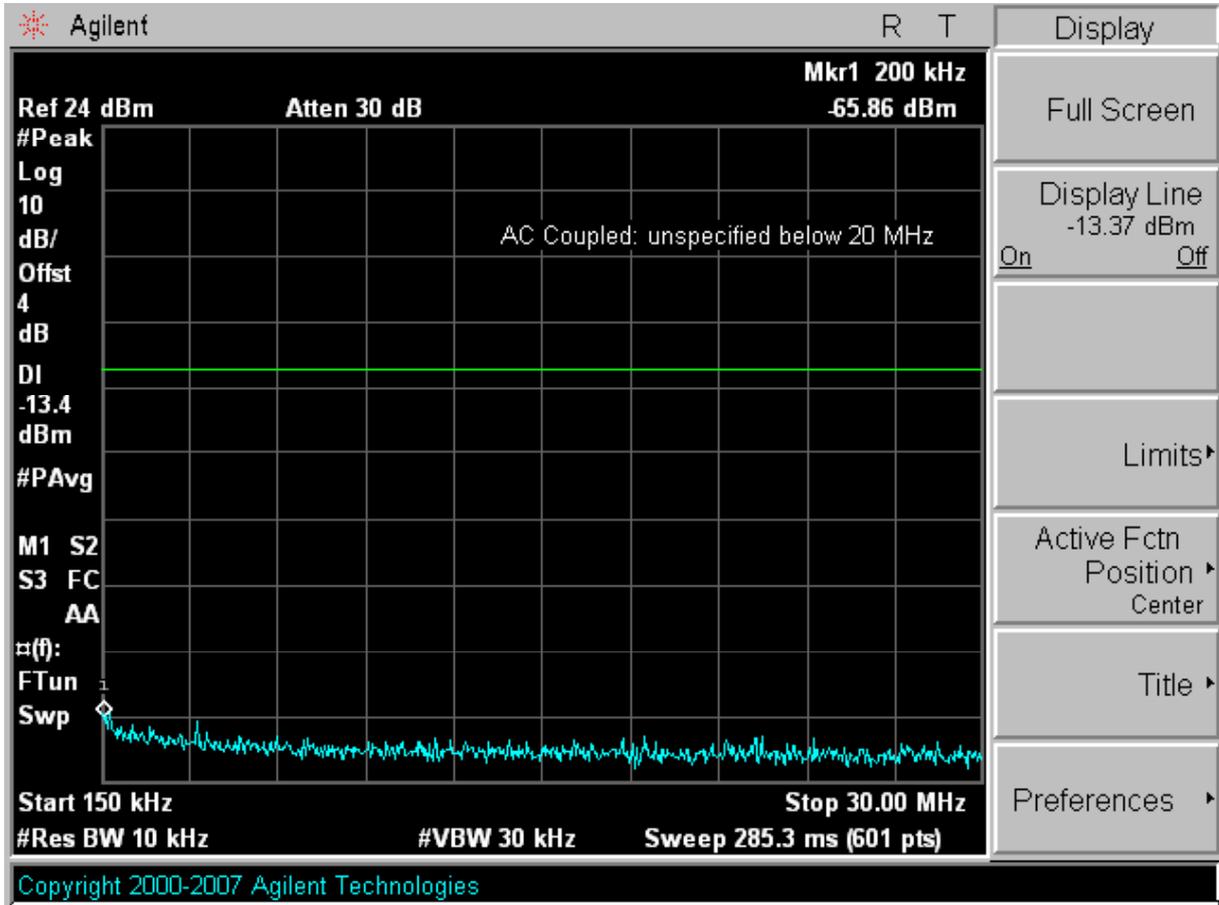


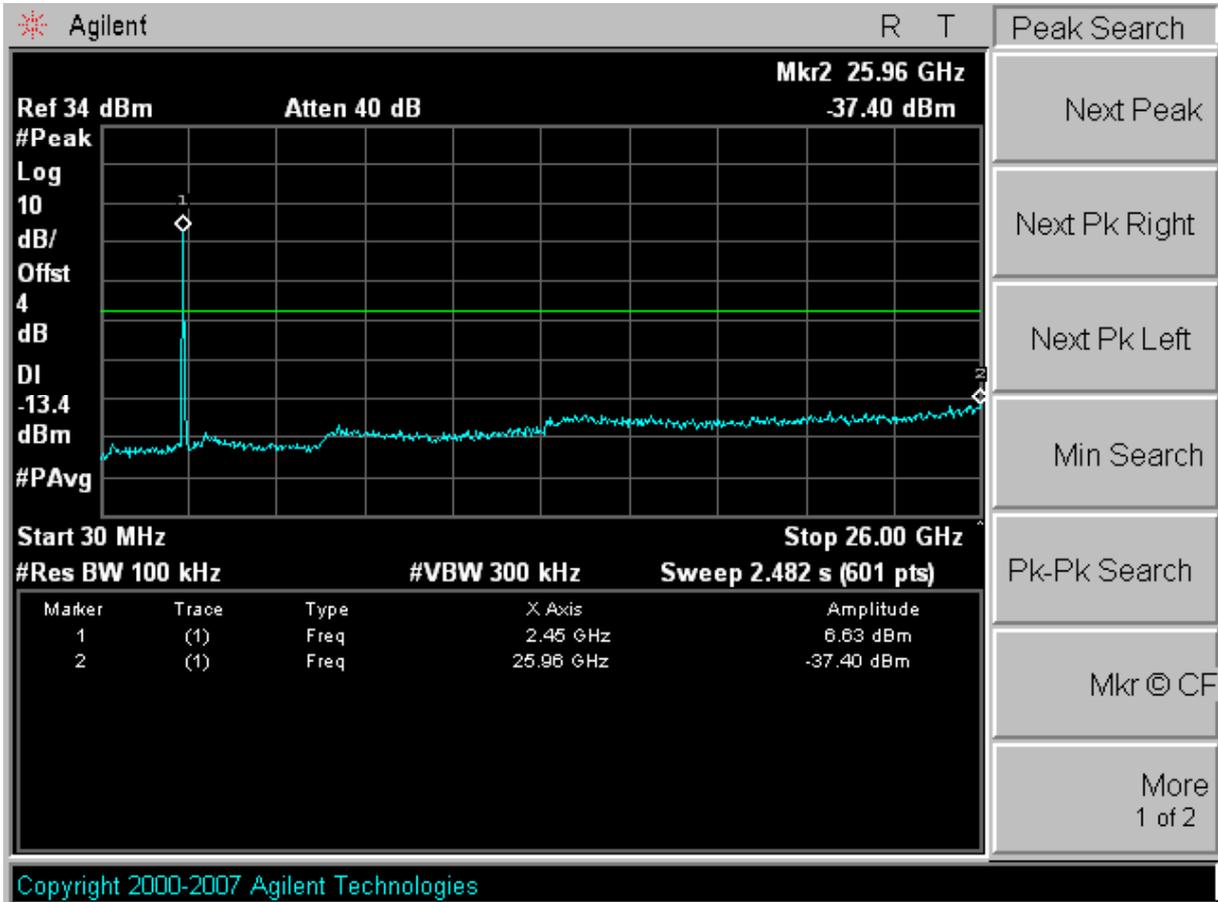




# Channel 11

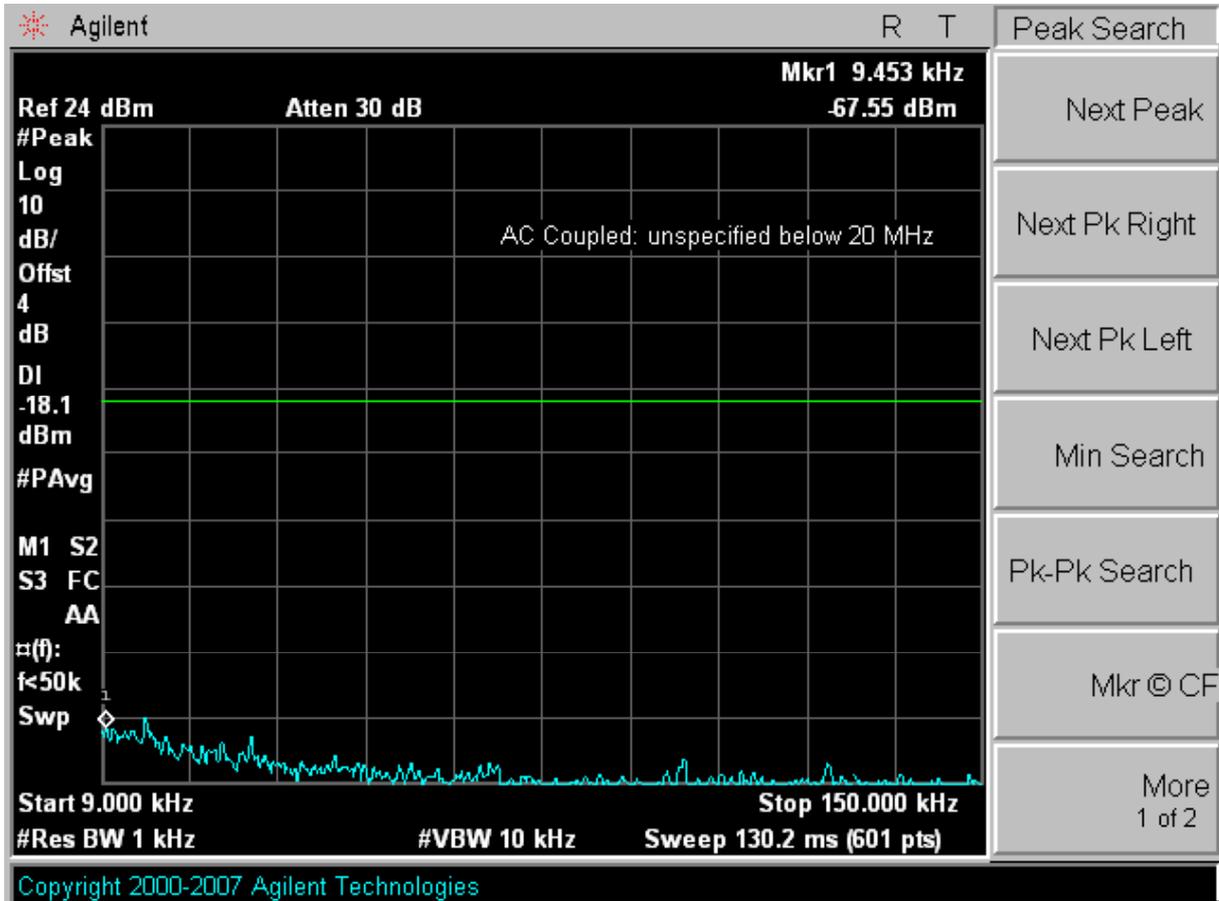


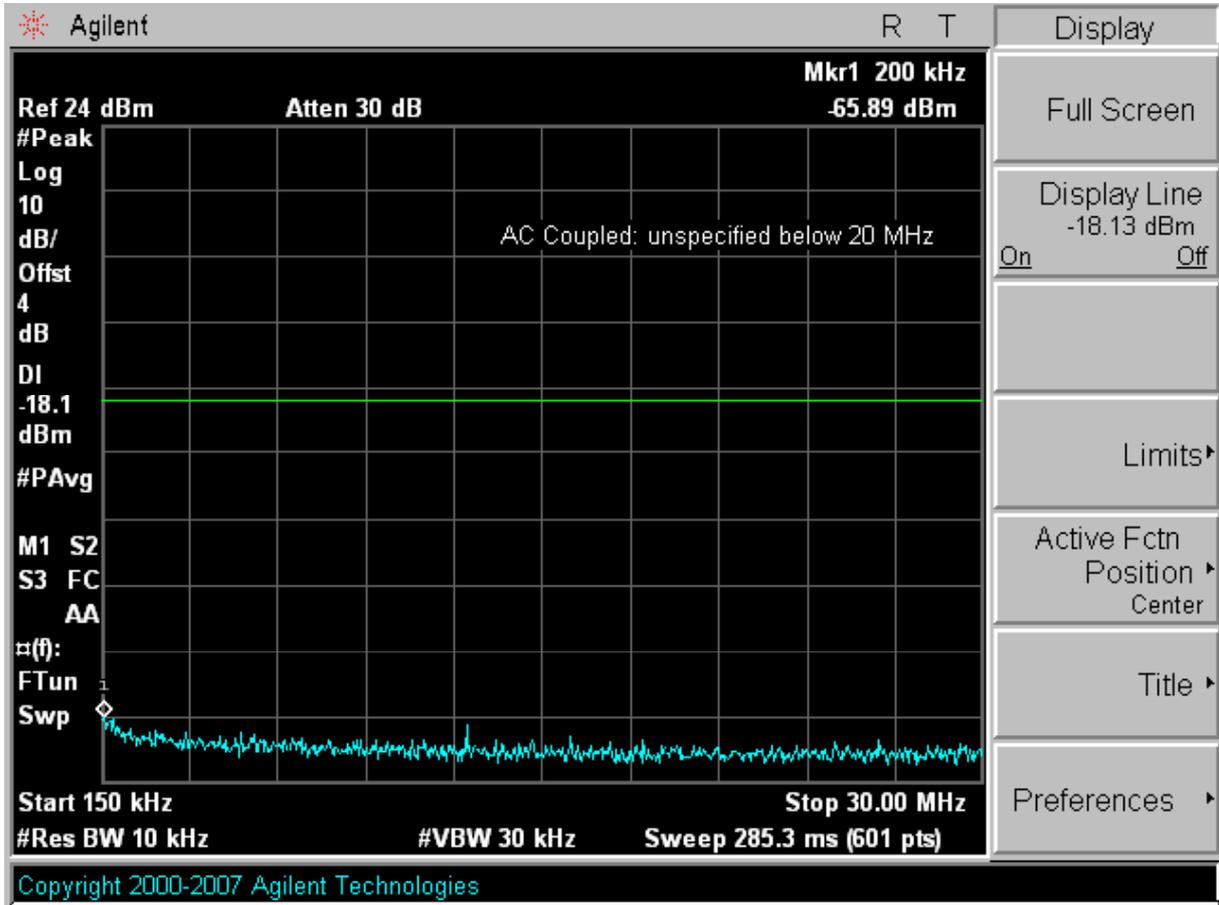


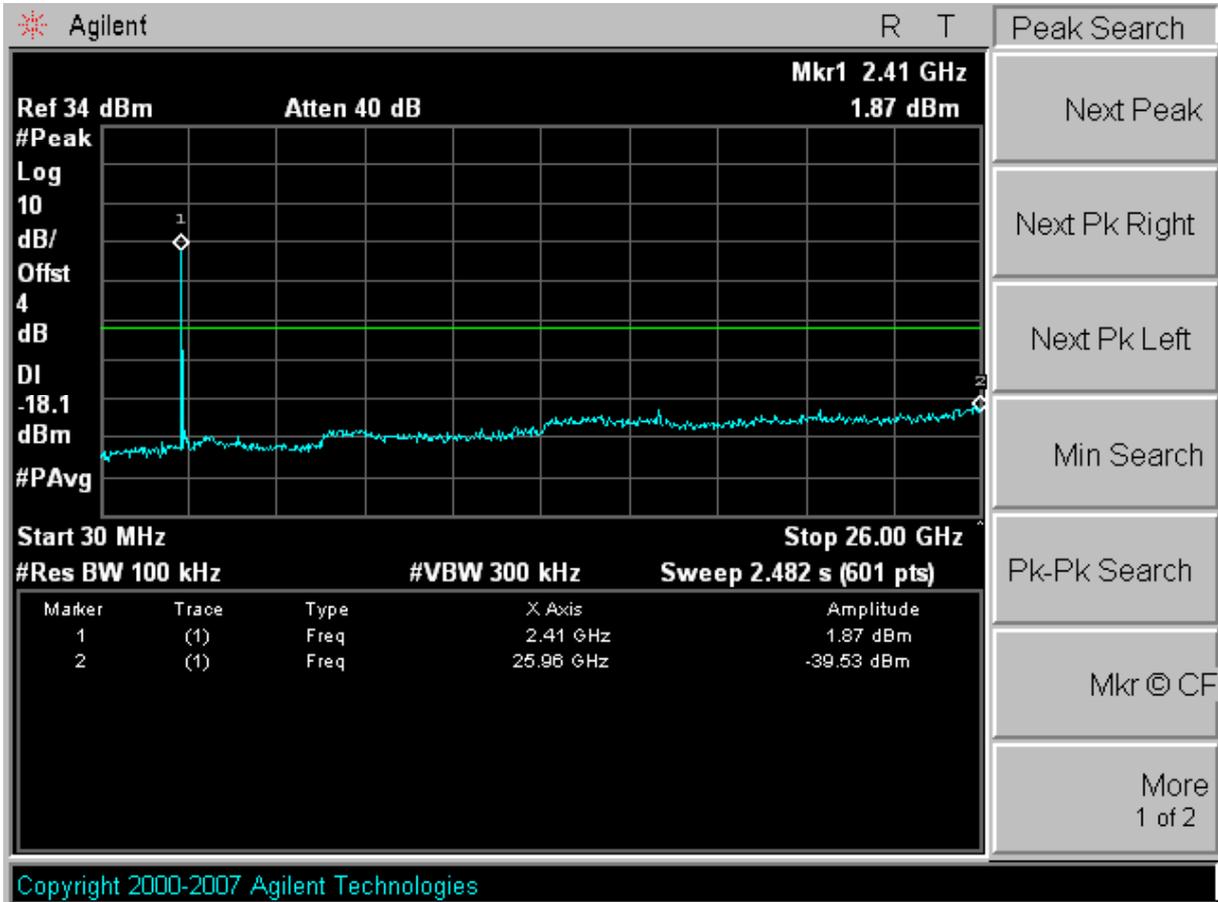




# TM2 Channel 1

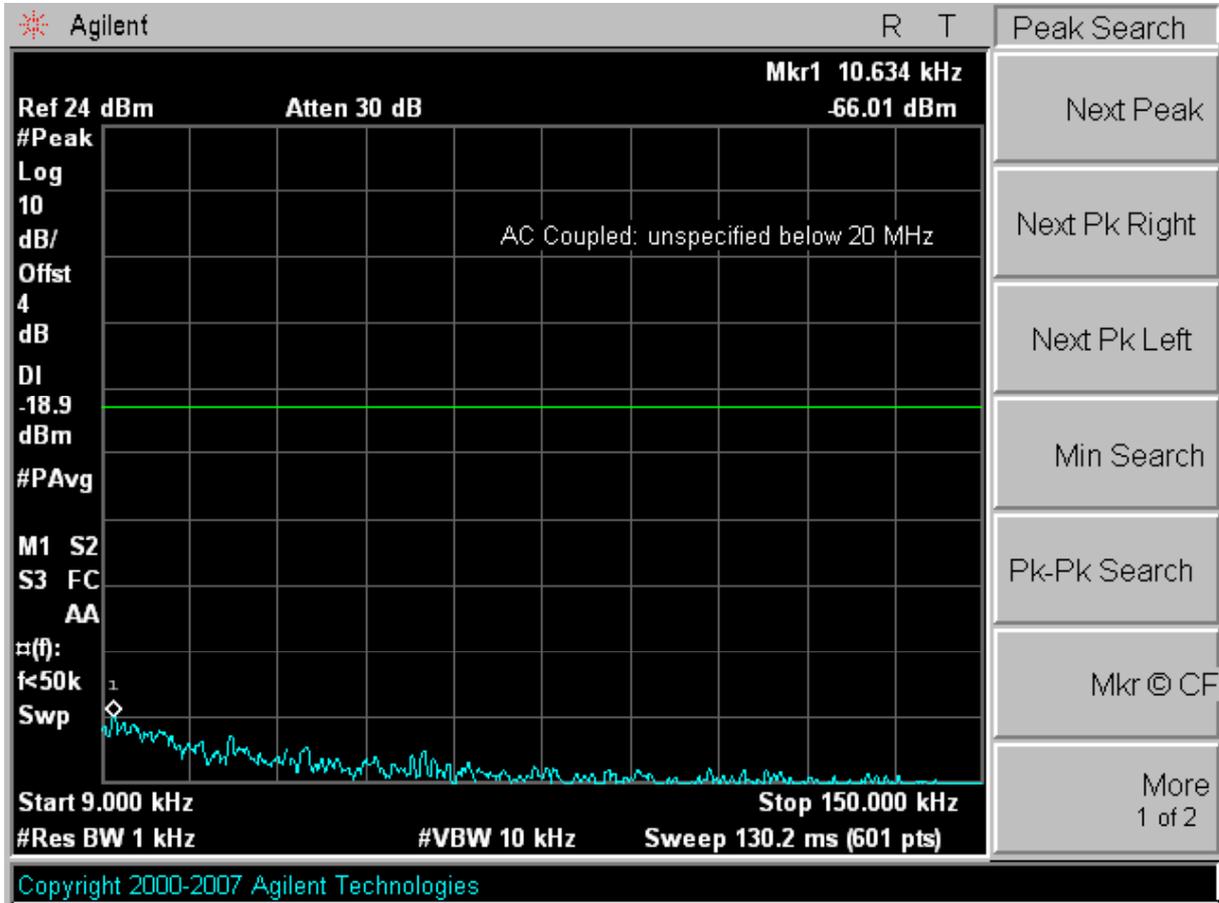


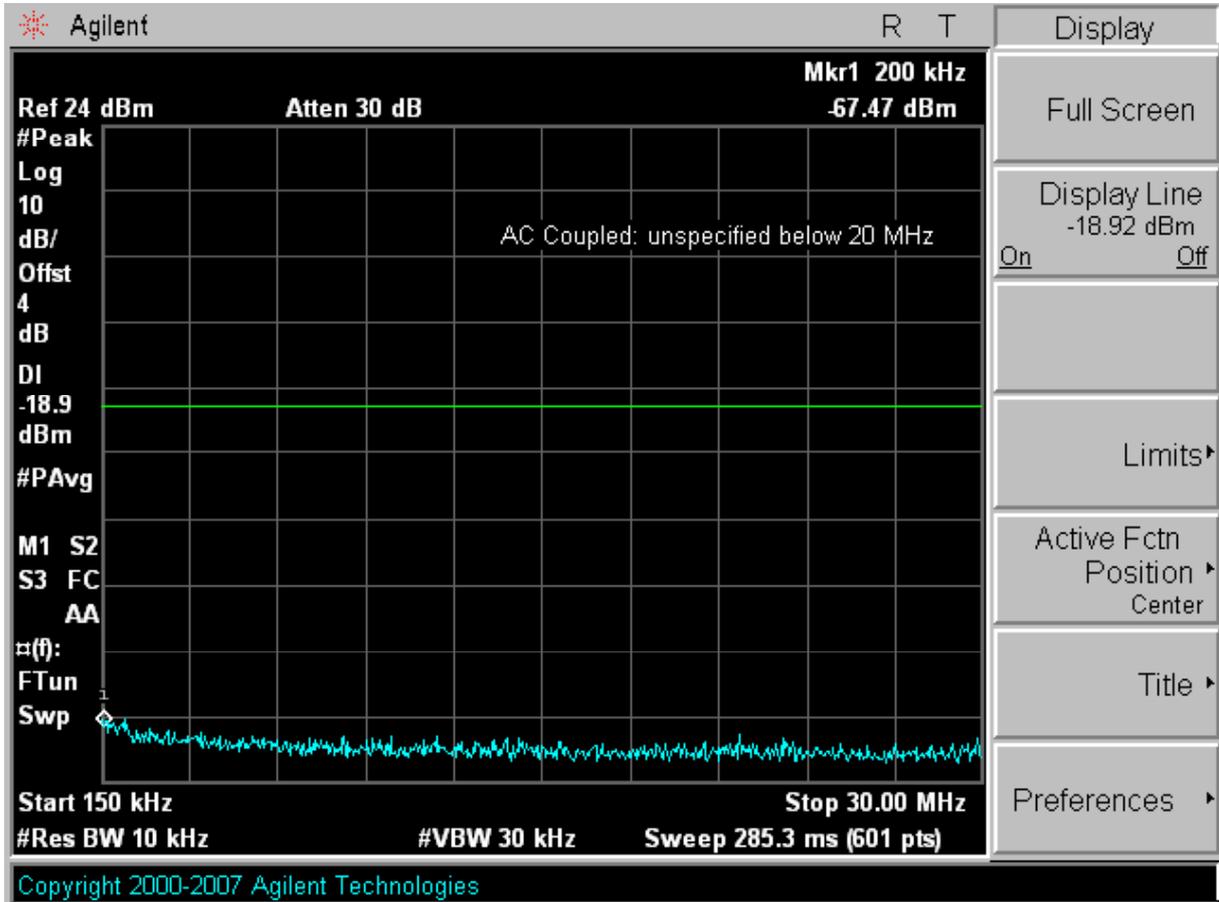


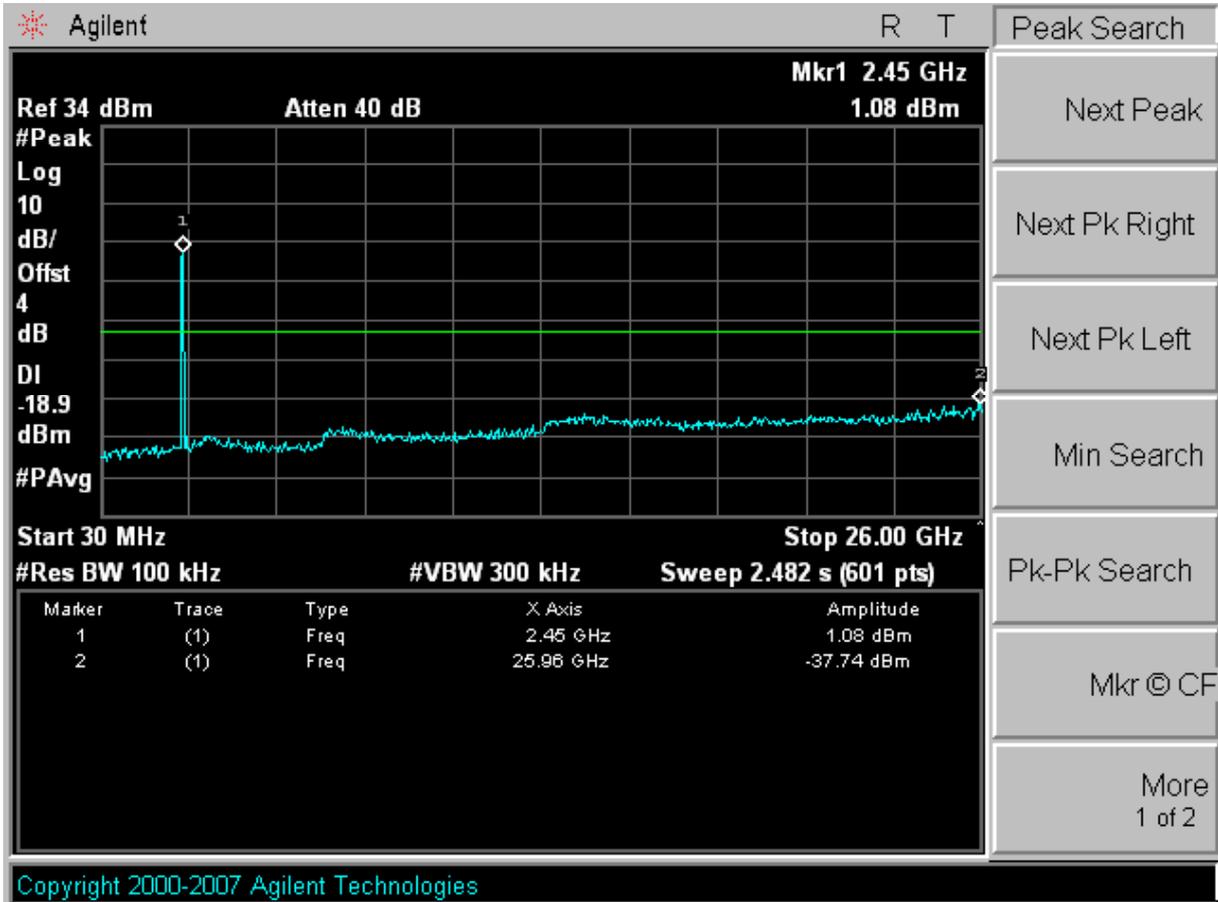




# Channel 6

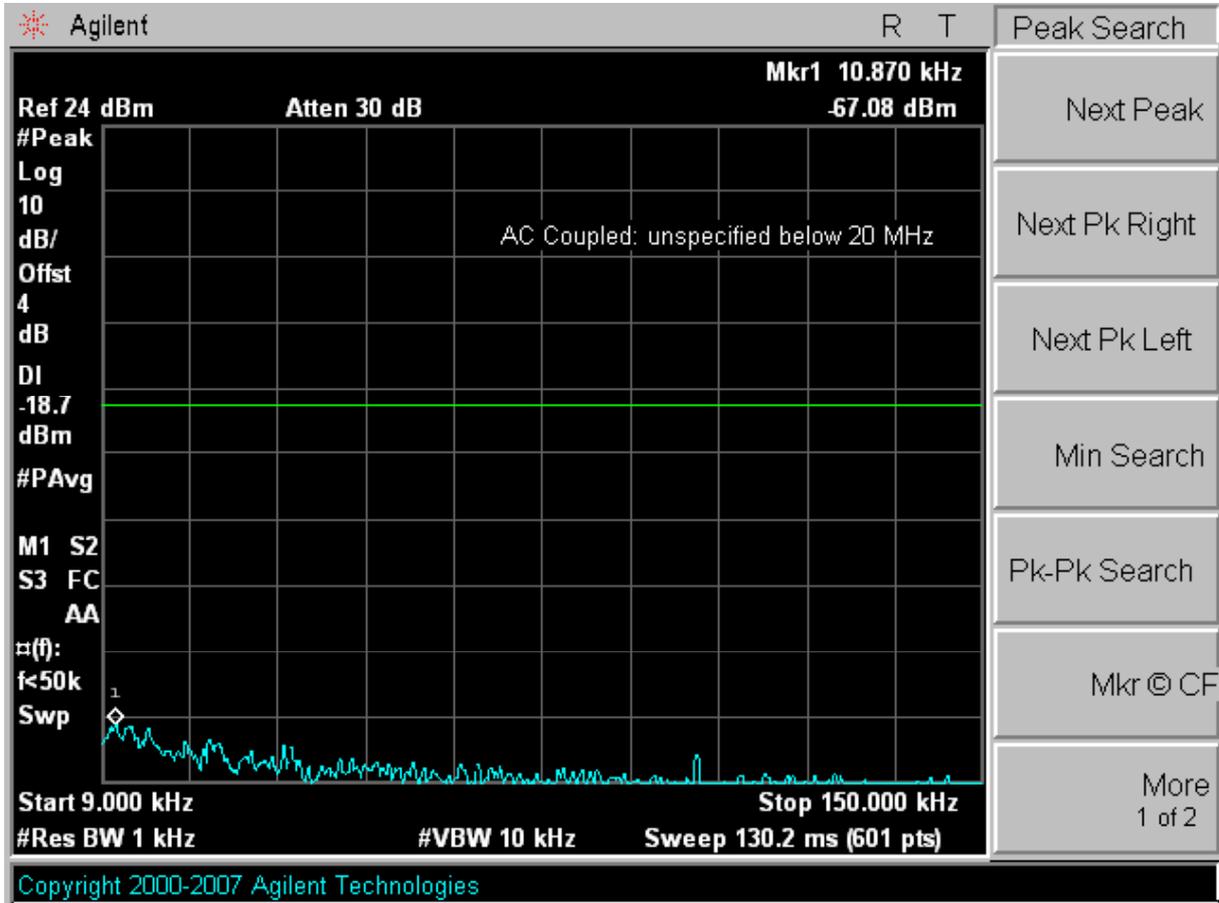


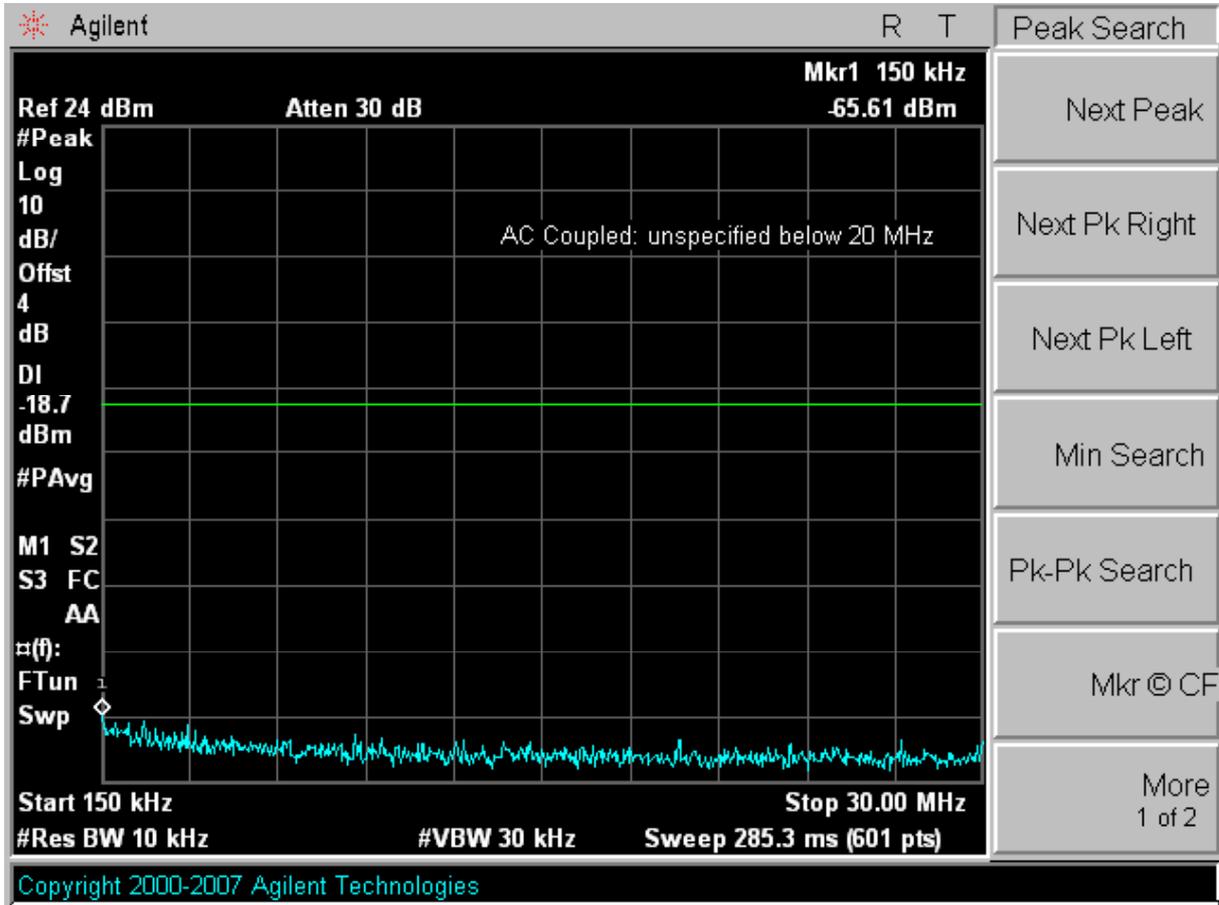


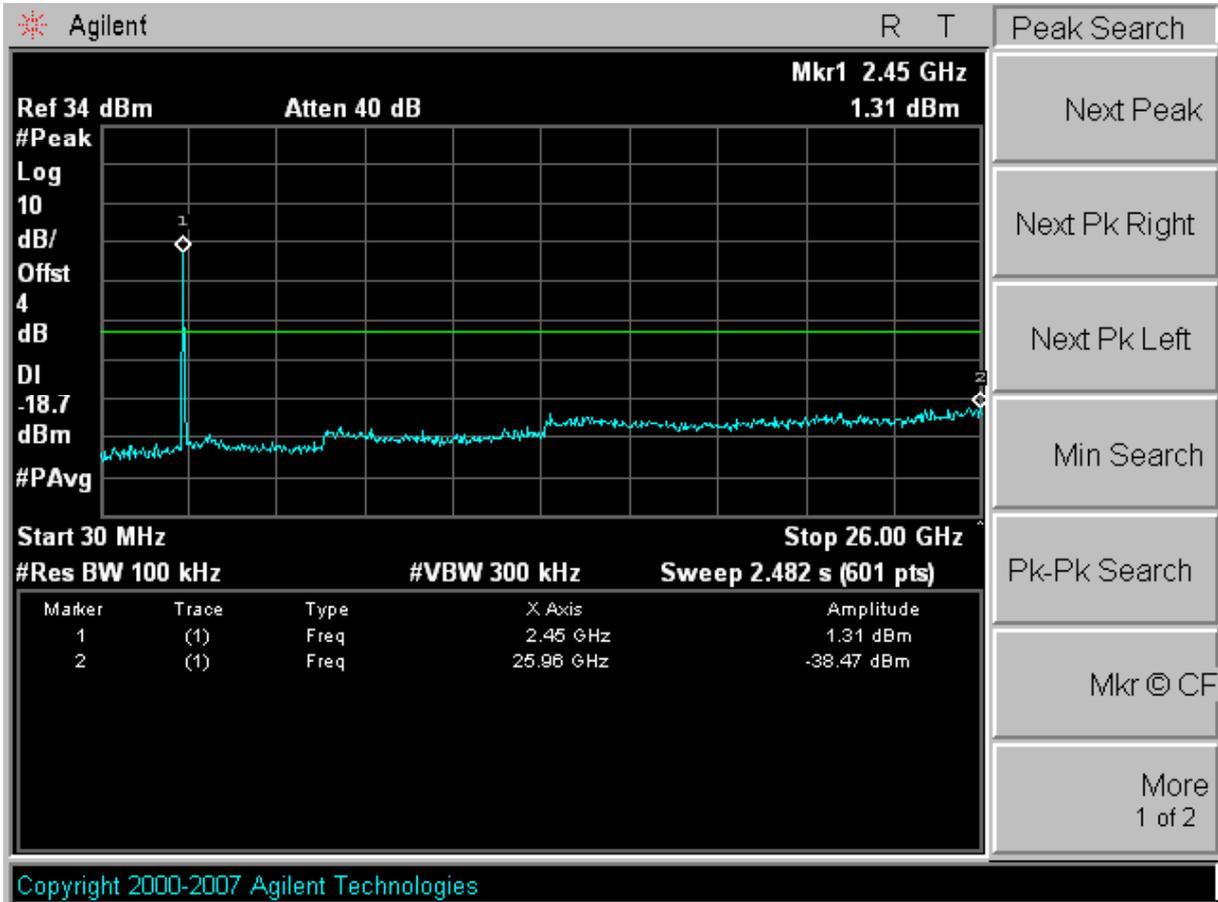




# Channel 11









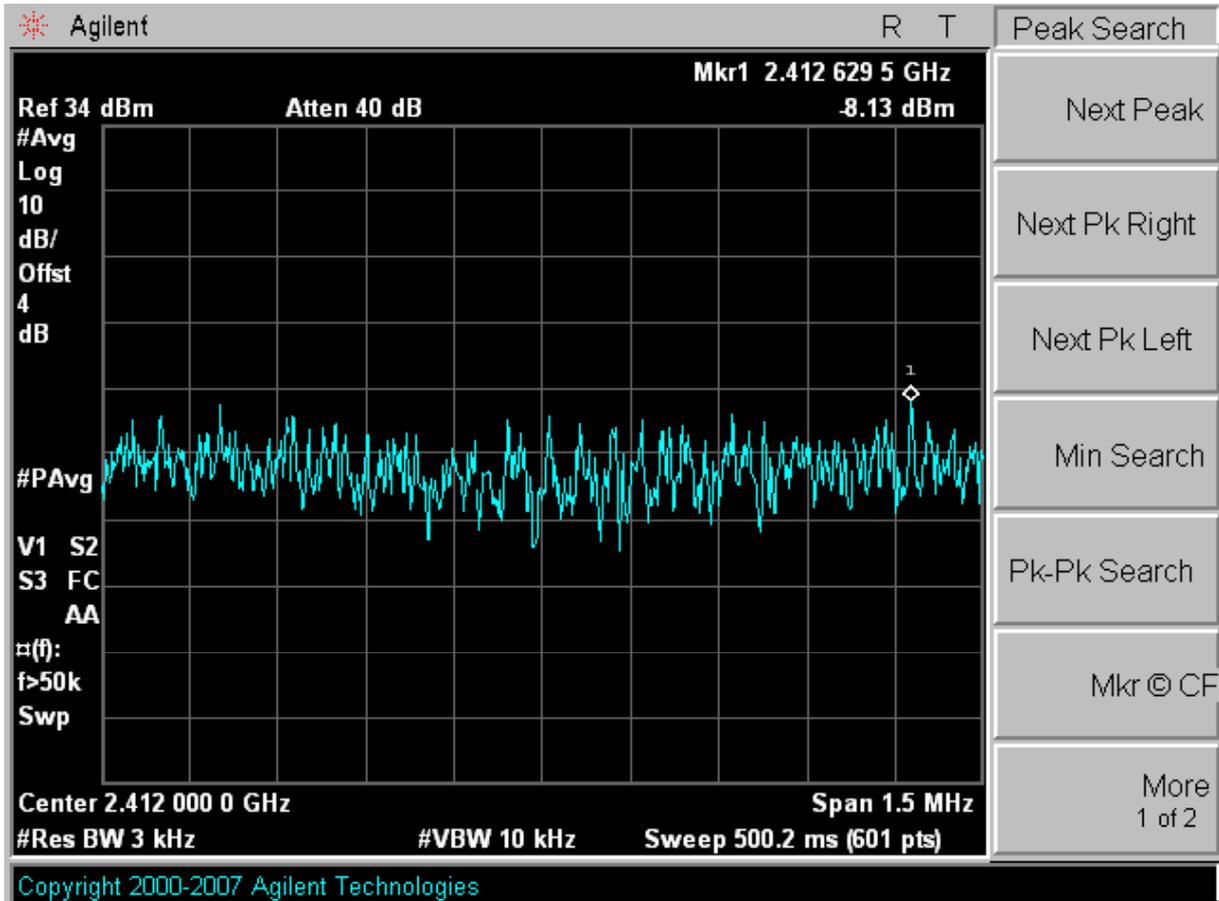
# **Appendix E**

## Power spectral density

According to FCC Part 15.247 (e)

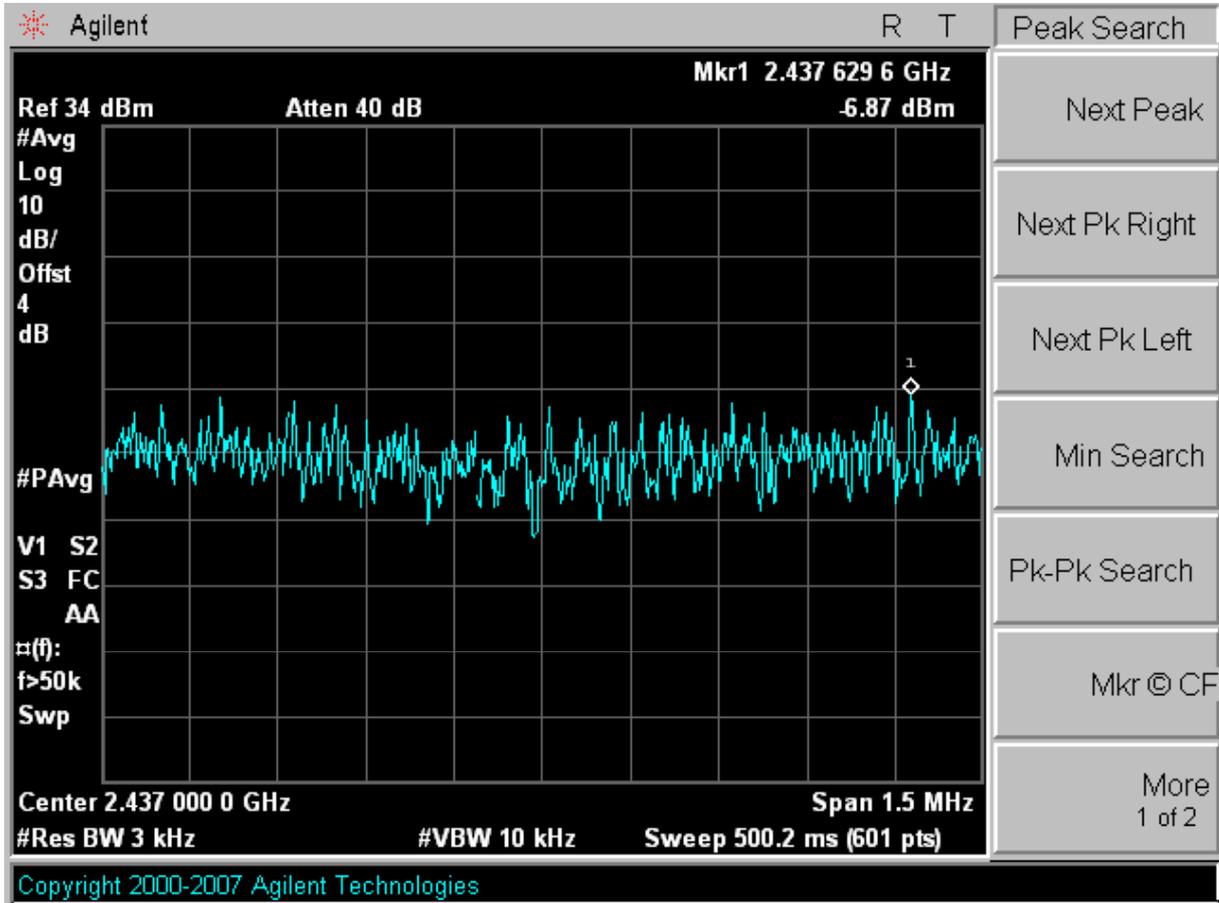


# TM1 Channel 1



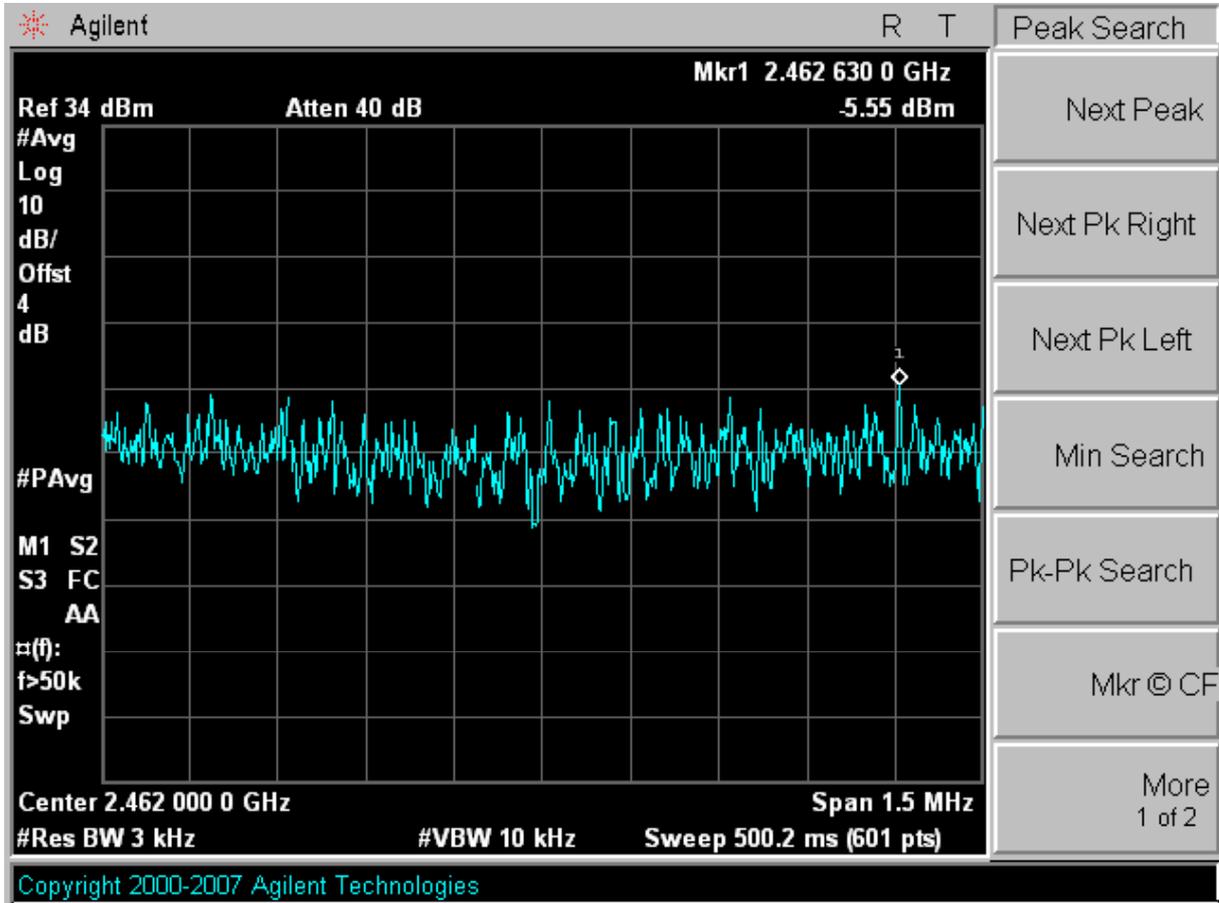


# Channel 6



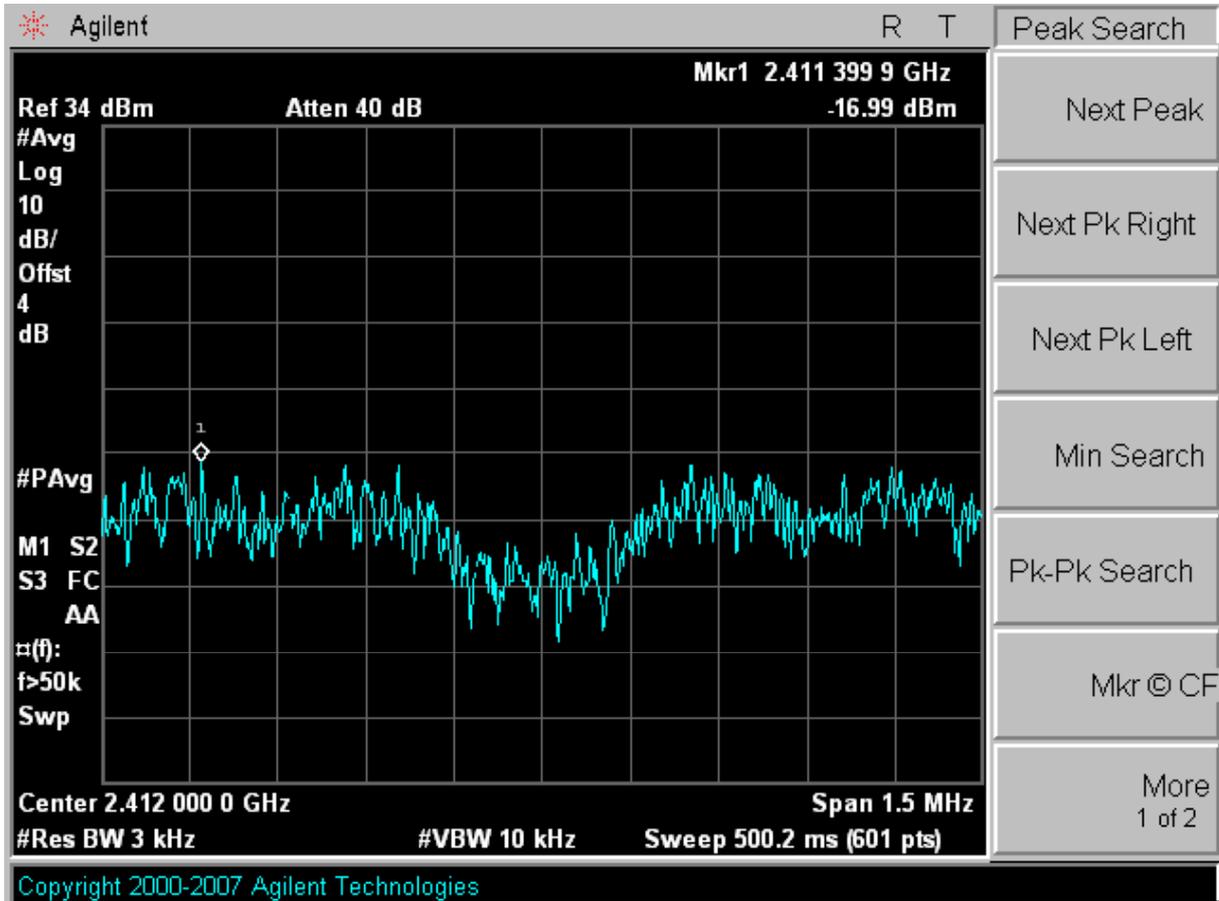


# Channel 11



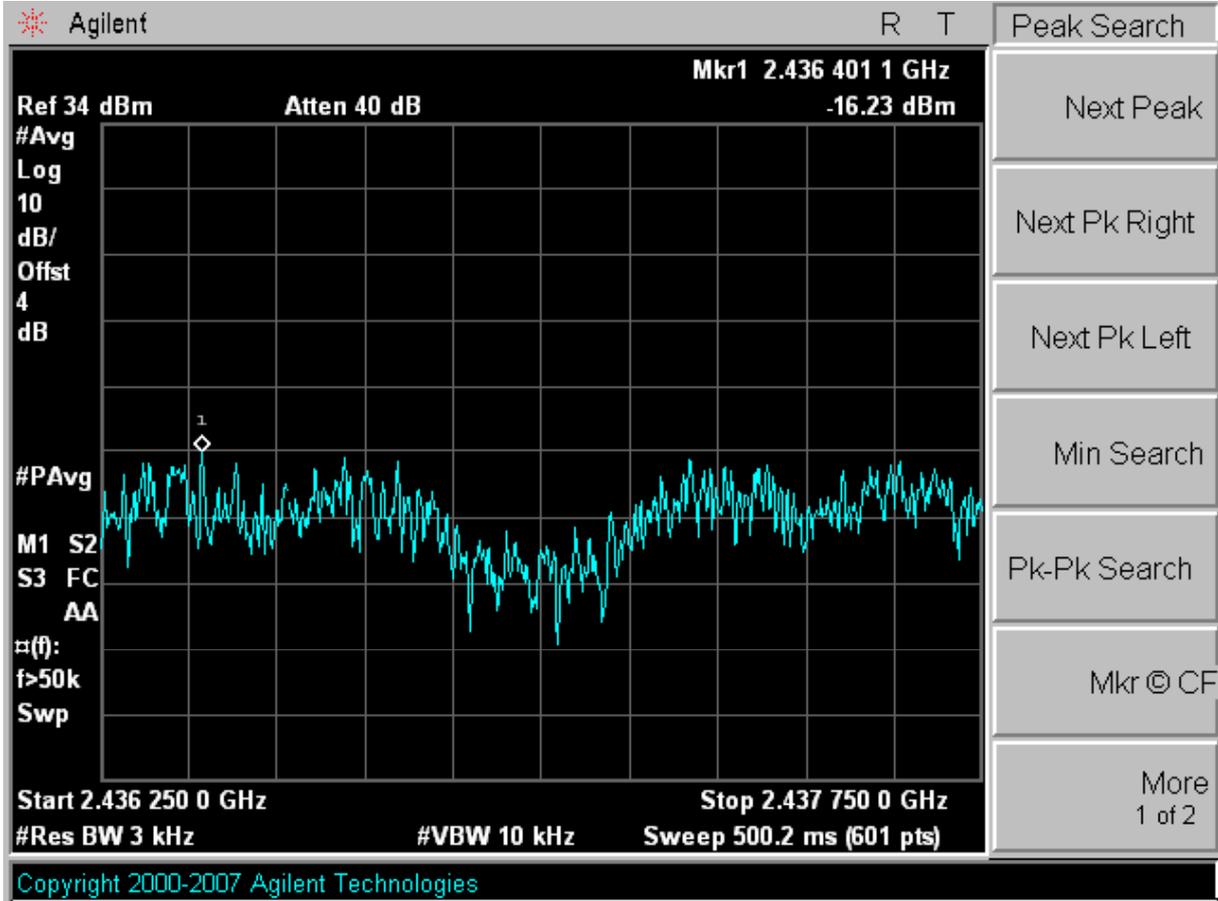


# TM2 Channel 1



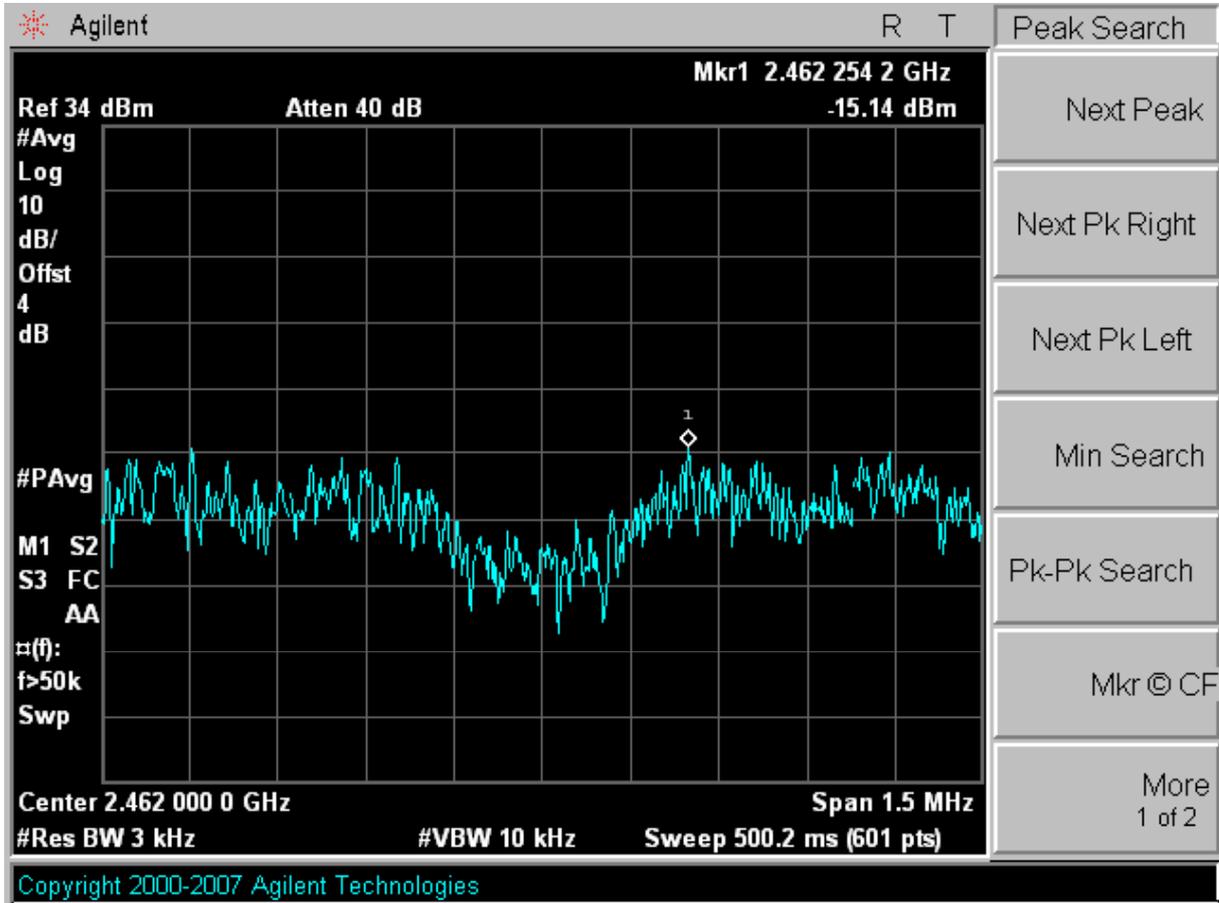


# Channel 6





# Channel 11





## **Appendix F**

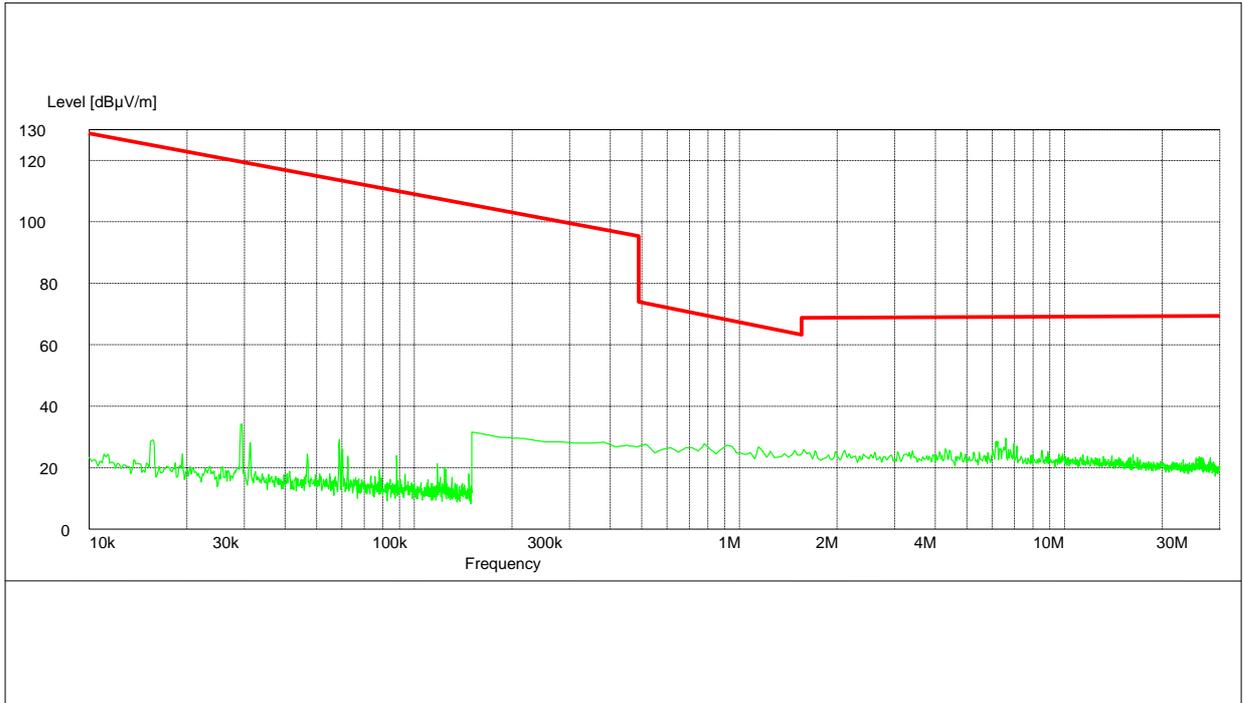
# Radiated spurious emission & spurious in restricted band

According to FCC Part 15.247 (d) & 15.205 & 15.209



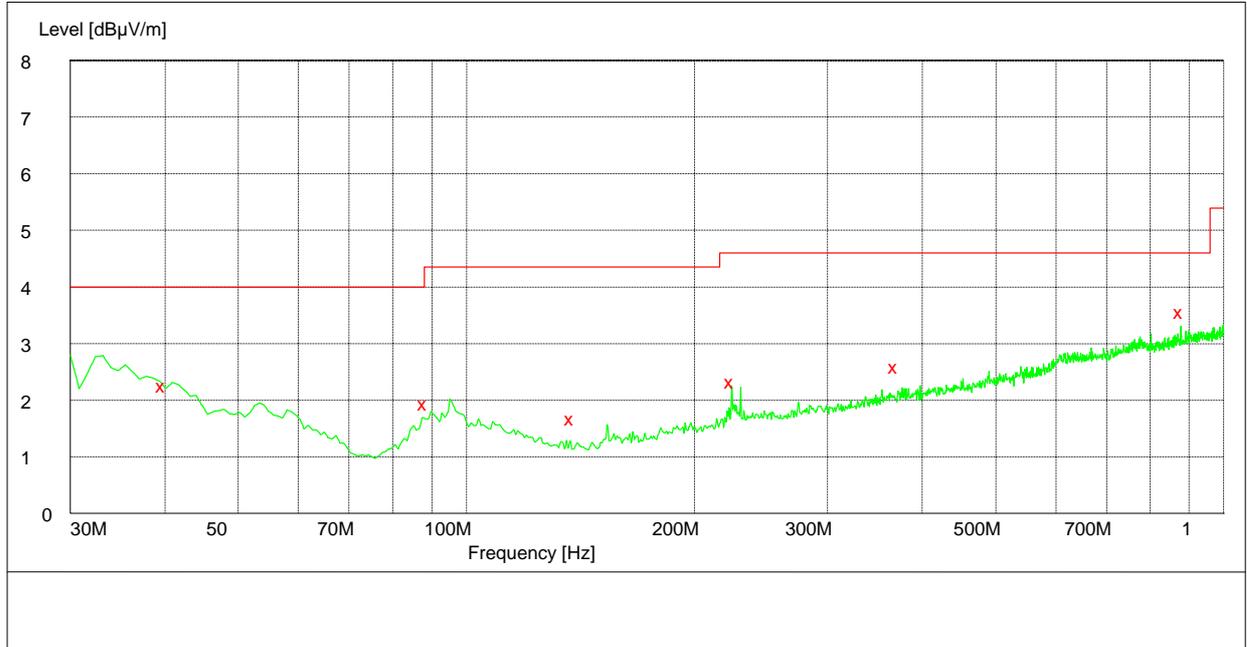
Note: This test was carried out in all the test modes, here only the worst test result was shown.

## Channel 1 10kHz to 30MHz





## 30MHz to 1GHz

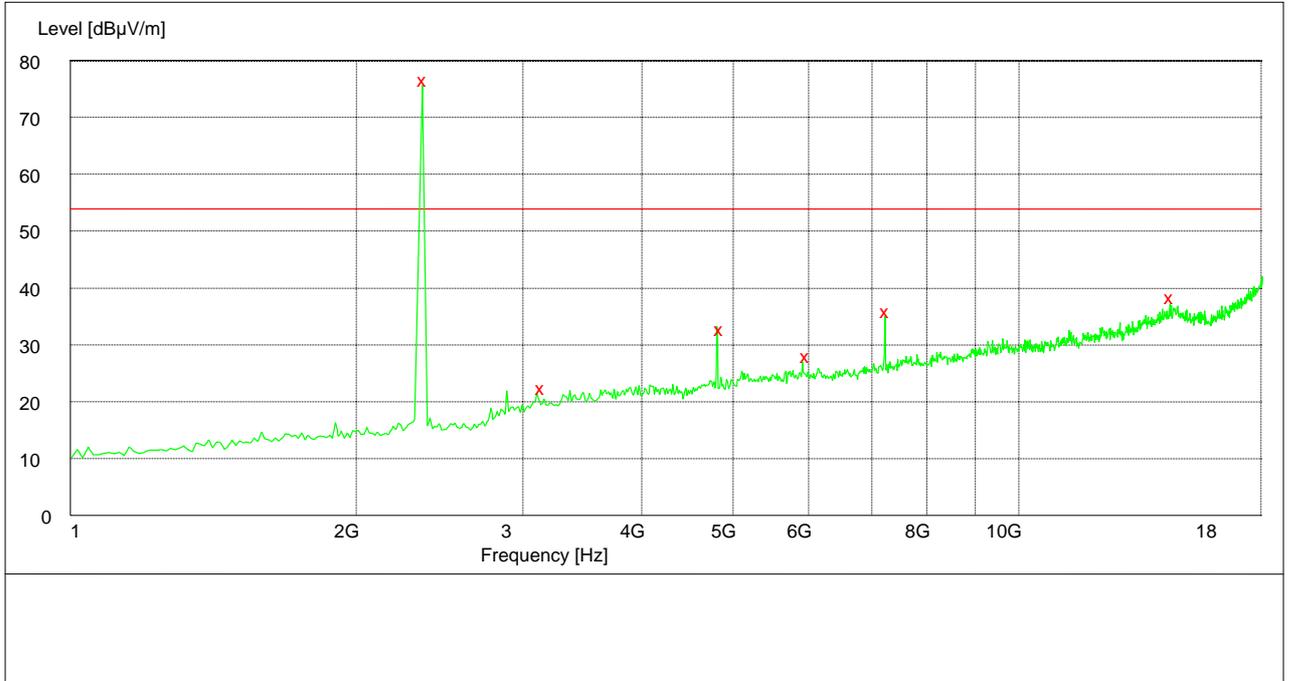


### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
39.780000	22.80	13.0	40.0	17.2	100.0	285.00	HORIZONTAL
88.260000	19.60	11.2	43.5	23.9	221.0	352.00	VERTICAL
137.760000	16.90	8.8	43.5	26.6	284.0	54.00	HORIZONTAL
223.980000	23.50	13.2	46.0	22.5	122.0	227.00	VERTICAL
368.460000	26.00	17.4	46.0	20.0	167.0	74.00	VERTICAL
878.100000	35.80	26.0	46.0	10.2	110.0	33.00	HORIZONTAL



# 1GHz to 18GHz

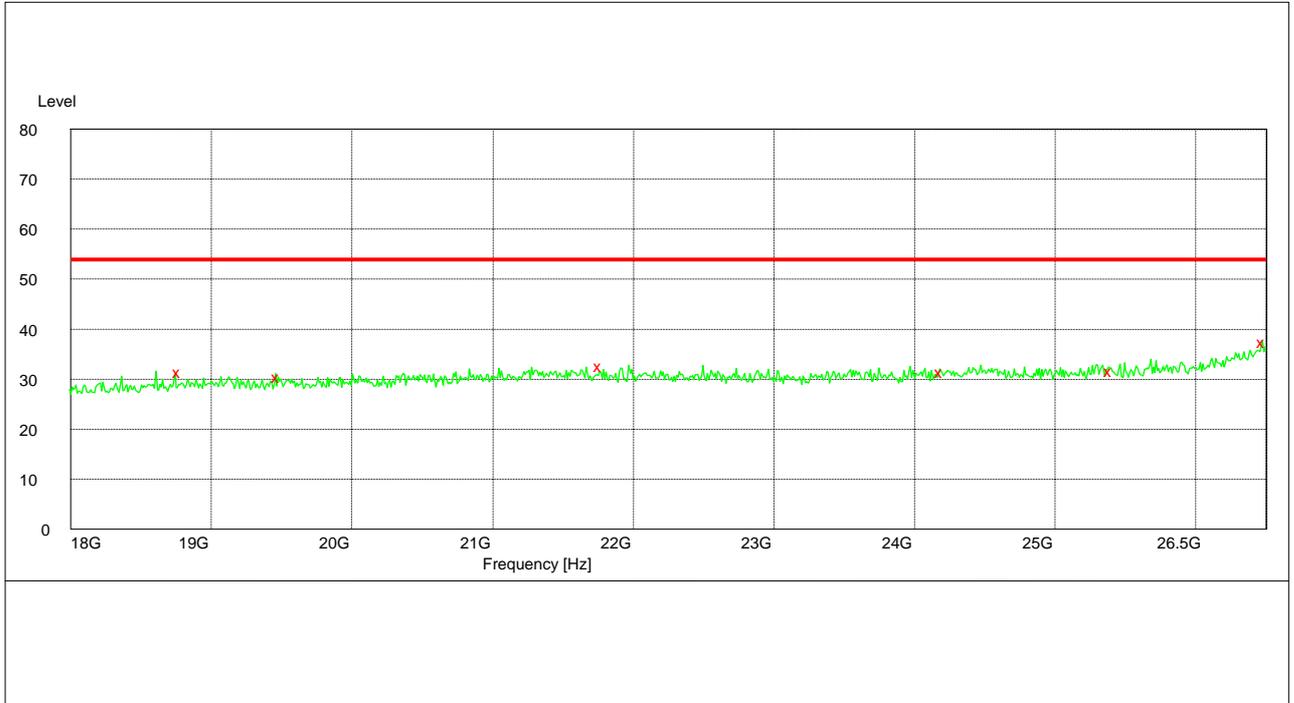


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2412.000000	77.60	-11.5	54.0	-23.6	127.0	154.00	HORIZONTAL
3098.000000	21.80	-8.7	54.0	32.2	108.0	221.00	VERTICAL
4794.500000	33.10	-4.1	54.0	20.9	182.0	180.00	VERTICAL
5896.500000	28.30	-1.7	54.0	25.7	118.0	11.00	VERTICAL
7205.500000	36.30	0.6	54.0	17.7	120.0	56.00	HORIZONTAL
14434.000000	39.10	12.2	54.0	14.9	110.0	197.00	HORIZONTAL



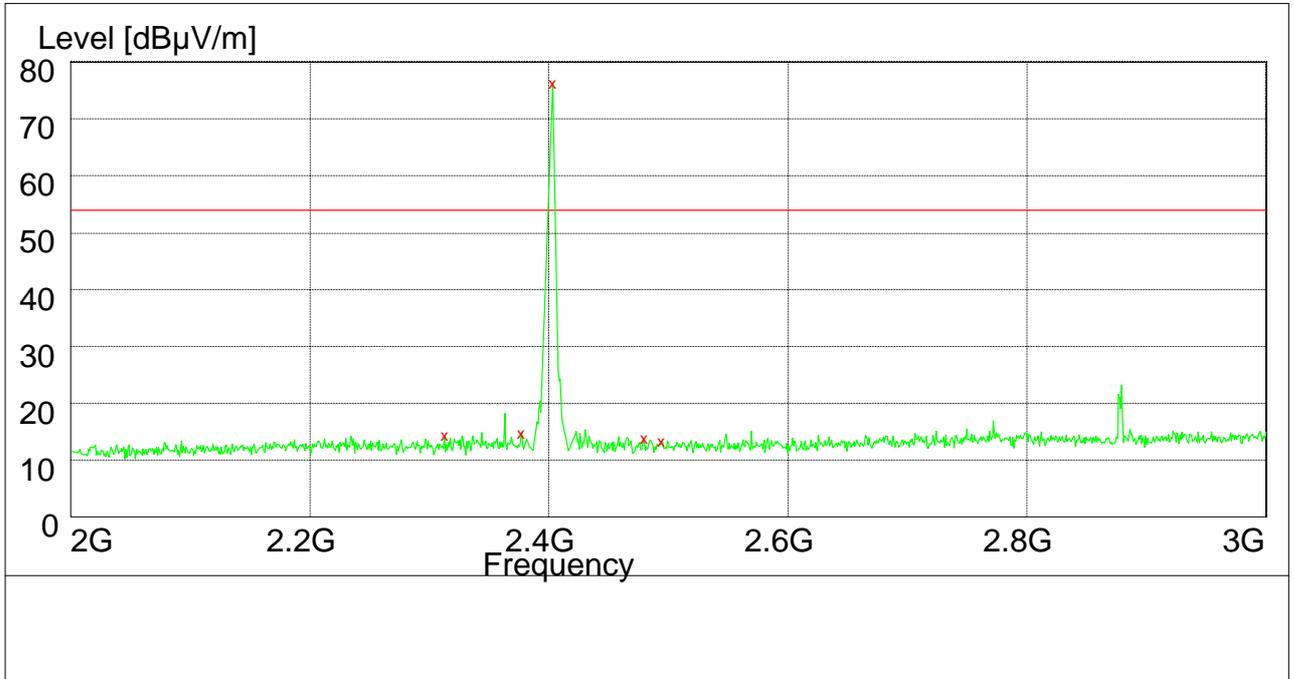
## 18GHz to 26GHz



Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
18776.000000	30.90	18.5	54.0	23.1	139.0	217.00	HORIZONTAL
19493.000000	30.00	18.9	54.0	24.0	193.0	286.00	VERTICAL
21785.000000	32.10	20.5	54.0	21.9	179.0	248.00	VERTICAL
24193.000000	30.80	21.5	54.0	23.2	127.0	28.00	VERTICAL
25287.000000	30.80	23.1	54.0	23.2	175.0	50.00	VERTICAL
26494.000000	38.20	27.9	54.0	15.8	191.0	221.00	VERTICAL



## 2GHz to 3GHz

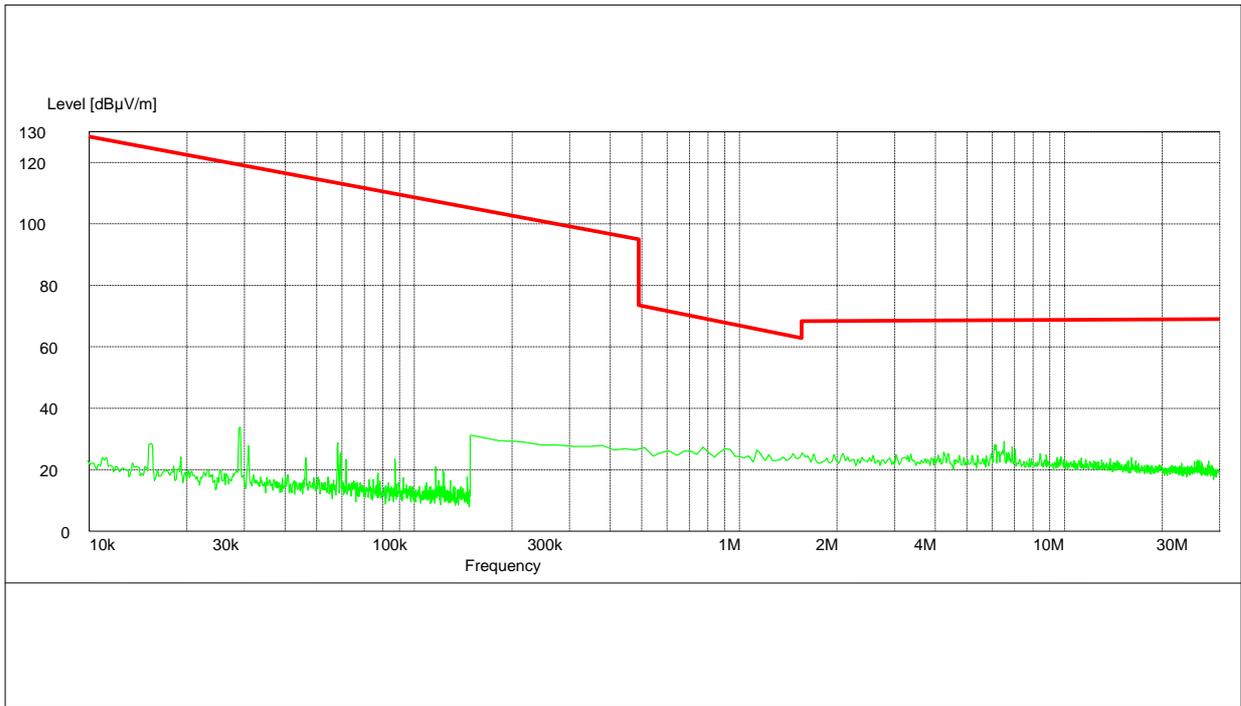


Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	14.50	-11.9	54.0	39.5	142.0	273.00	VERTICAL
2390.000000	14.60	-11.6	54.0	39.4	170.0	13.00	HORIZONTAL
2412.000000	75.90	-11.5	54.0	-21.9	125.0	168.00	VERTICAL
2483.500000	14.10	-11.3	54.0	39.9	150.0	233.00	VERTICAL
2500.000000	13.70	-11.1	54.0	40.3	106.0	66.00	VERTICAL



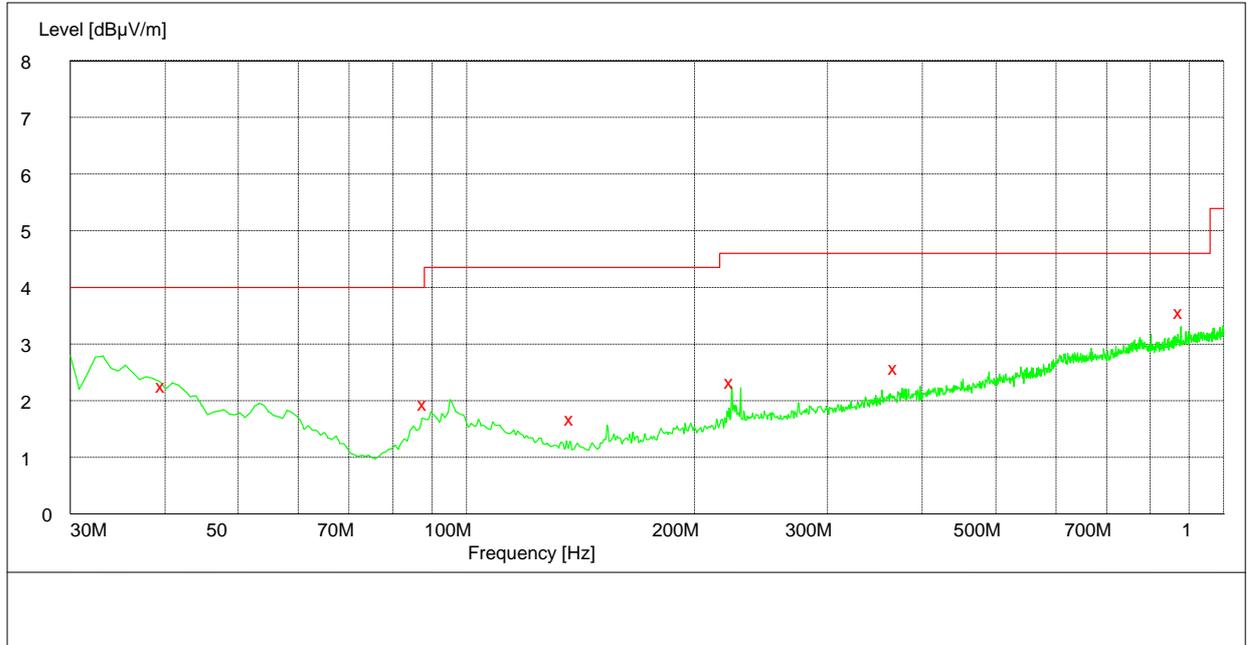
# Channel 7

## 10 kHz to 30MHz





## 30MHz to 1GHz

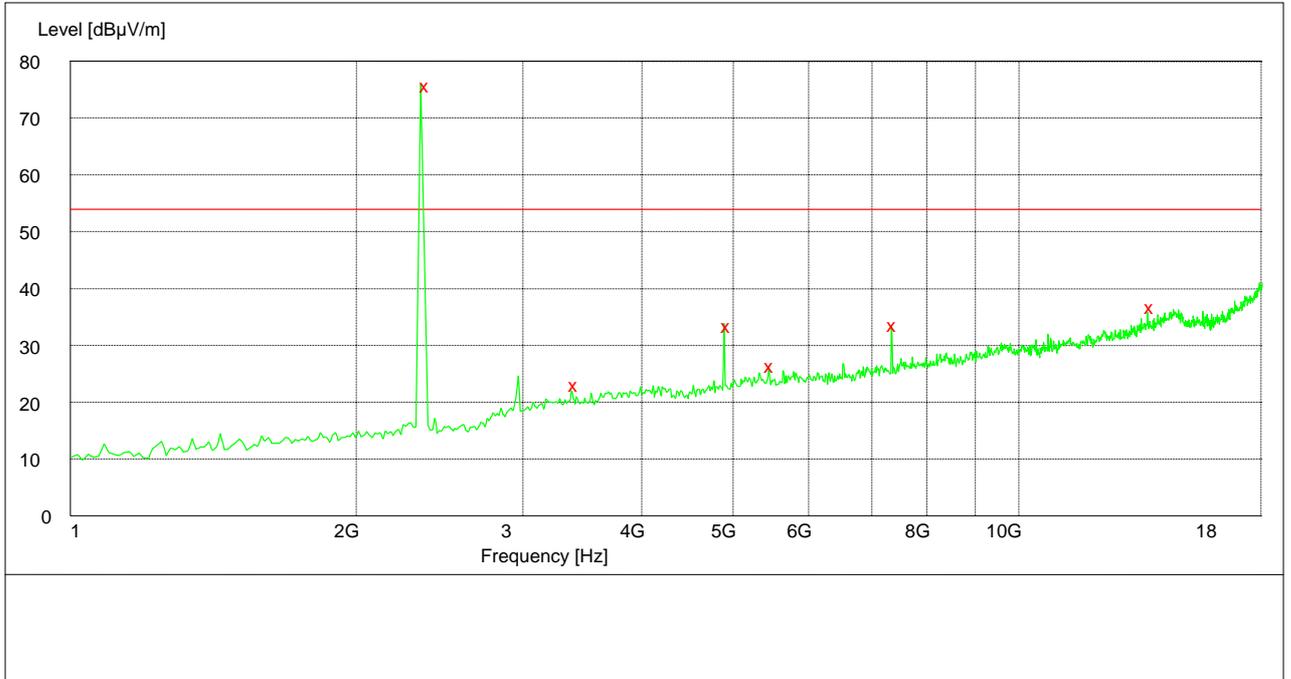


### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
39.780000	22.80	13.0	40.0	17.2	100.0	285.00	HORIZONTAL
88.260000	19.60	11.2	43.5	23.9	221.0	352.00	VERTICAL
137.760000	16.90	8.8	43.5	26.6	284.0	54.00	HORIZONTAL
223.980000	23.50	13.2	46.0	22.5	122.0	227.00	VERTICAL
368.460000	26.00	17.4	46.0	20.0	167.0	74.00	VERTICAL
878.100000	35.80	26.0	46.0	10.2	110.0	33.00	HORIZONTAL



# 1GHz to 18GHz

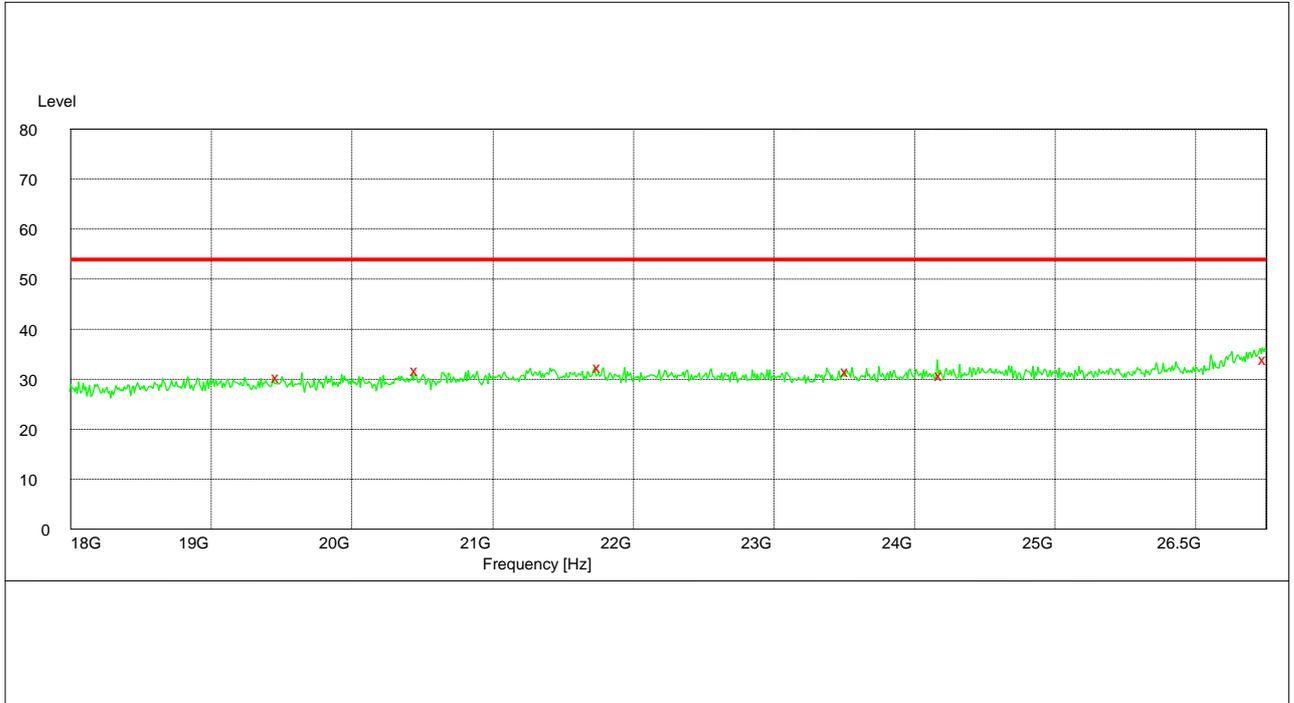


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2442.000000	76.80	-11.4	54.0	-22.8	195.0	286.00	HORIZONTAL
3372.000000	22.70	-7.8	54.0	31.3	154.0	202.00	HORIZONTAL
4883.500000	33.60	-3.9	54.0	20.4	176.0	99.00	VERTICAL
5439.000000	26.50	-2.4	54.0	27.5	187.0	179.00	HORIZONTAL
7325.500000	33.40	0.7	54.0	20.6	125.0	218.00	VERTICAL
13629.500000	36.40	10.2	54.0	17.6	123.0	311.00	VERTICAL



## 18GHz to 26GHz

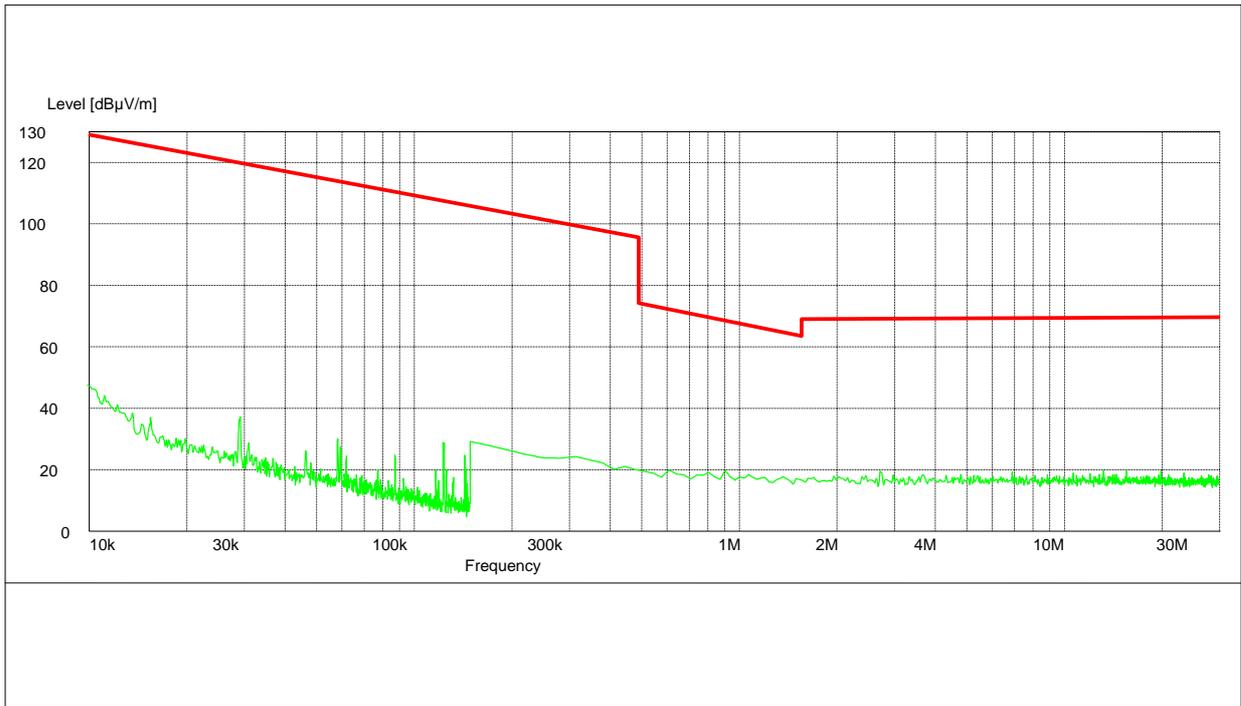


Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
19483.000000	30.50	18.9	54.0	23.5	161.0	166.00	HORIZONTAL
20481.000000	31.00	19.7	54.0	23.0	119.0	26.00	VERTICAL
21782.000000	31.20	20.5	54.0	22.8	154.0	143.00	HORIZONTAL
23532.000000	30.80	20.5	54.0	23.2	108.0	210.00	VERTICAL
24206.000000	30.50	21.5	54.0	23.5	200.0	14.00	HORIZONTAL
26498.000000	34.30	27.9	54.0	19.7	101.0	271.00	HORIZONTAL



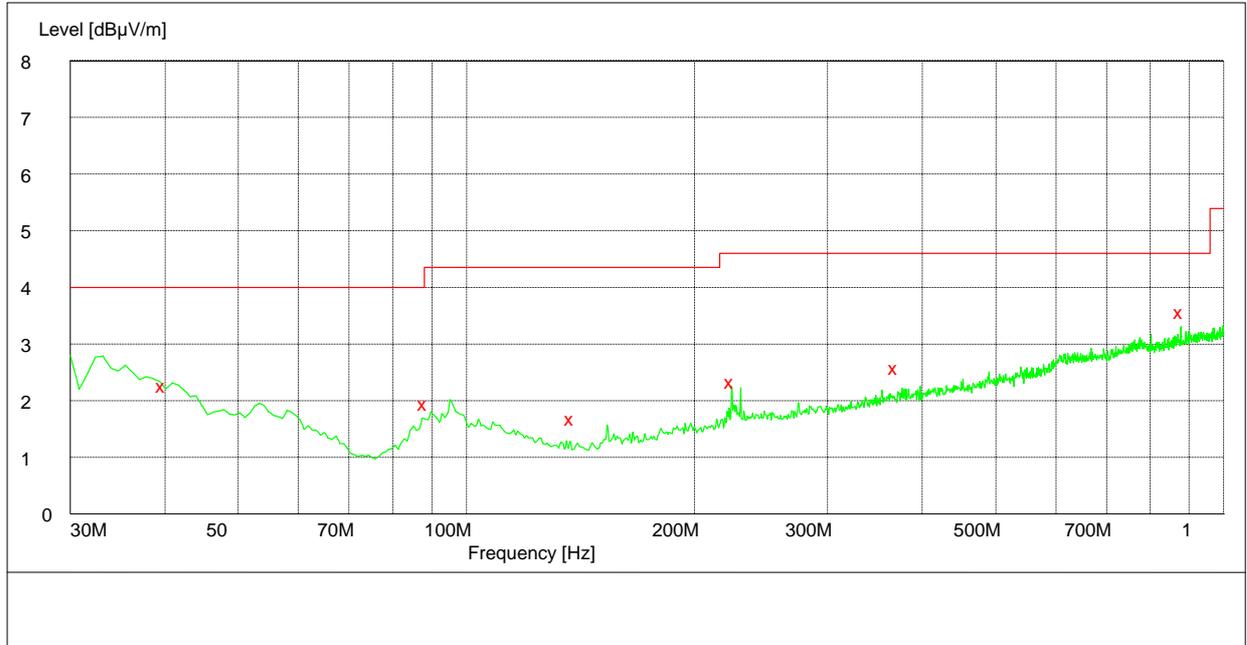
# Channel 11

## 10 kHz to 30 MHz





## 30MHz to 1GHz

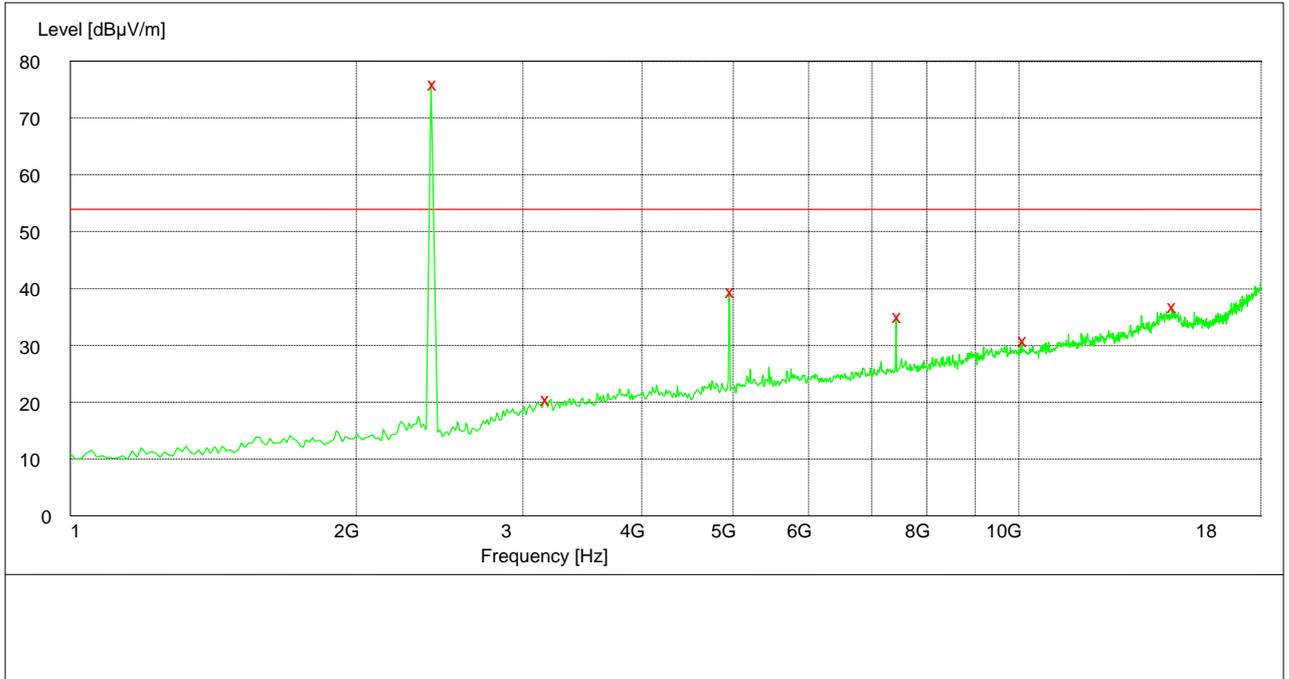


### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
39.780000	22.80	13.0	40.0	17.2	100.0	285.00	HORIZONTAL
88.260000	19.60	11.2	43.5	23.9	221.0	352.00	VERTICAL
137.760000	16.90	8.8	43.5	26.6	284.0	54.00	HORIZONTAL
223.980000	23.50	13.2	46.0	22.5	122.0	227.00	VERTICAL
368.460000	26.00	17.4	46.0	20.0	167.0	74.00	VERTICAL
878.100000	35.80	26.0	46.0	10.2	110.0	33.00	HORIZONTAL



## 1GHz to 18GHz

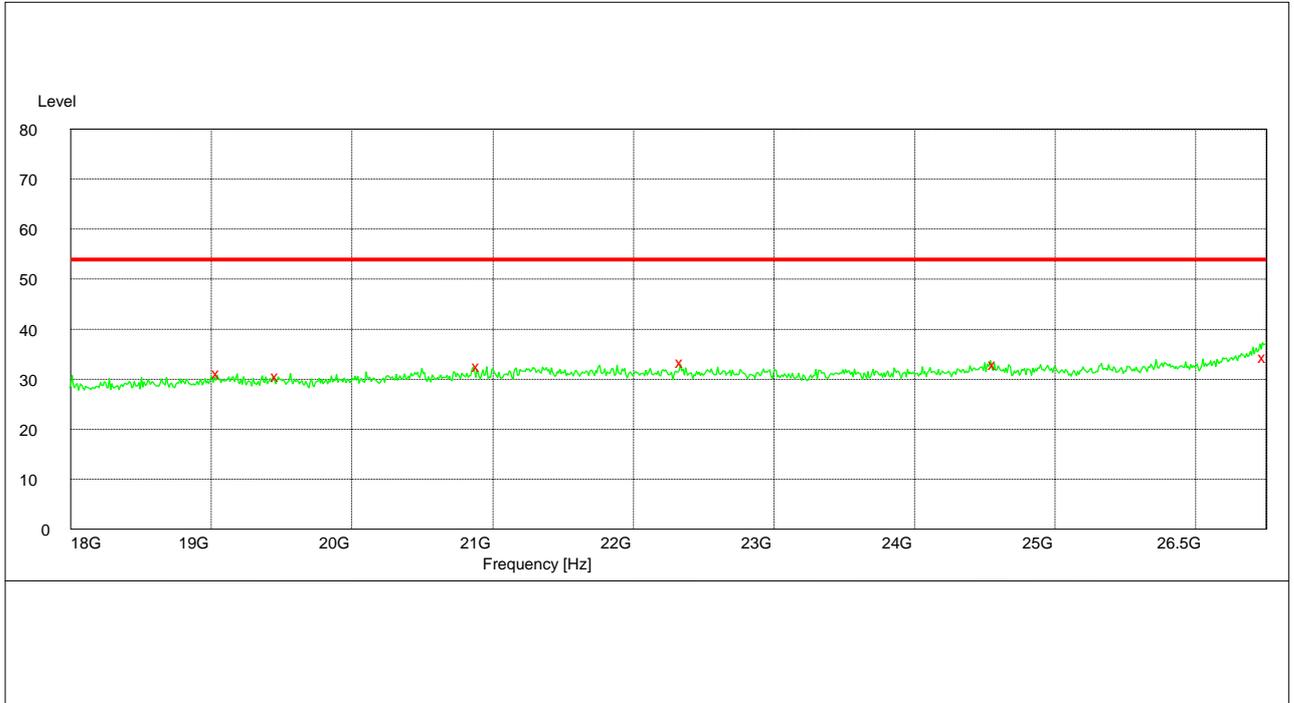


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2462.000000	77.3	-11.3	54.0	-23.3	141.0	96.00	HORIZONTAL
3197.000000	20.1	-8.3	54.0	33.9	167.0	171.00	HORIZONTAL
4960.000000	39.9	-3.8	54.0	14.1	133.0	252.00	HORIZONTAL
7440.000000	35.4	1.2	54.0	18.6	141.0	316.00	VERTICAL
10064.500000	30.2	5.2	54.0	23.8	184.0	167.00	HORIZONTAL
14525.000000	36.7	12.3	54.0	17.3	112.0	17.00	HORIZONTAL



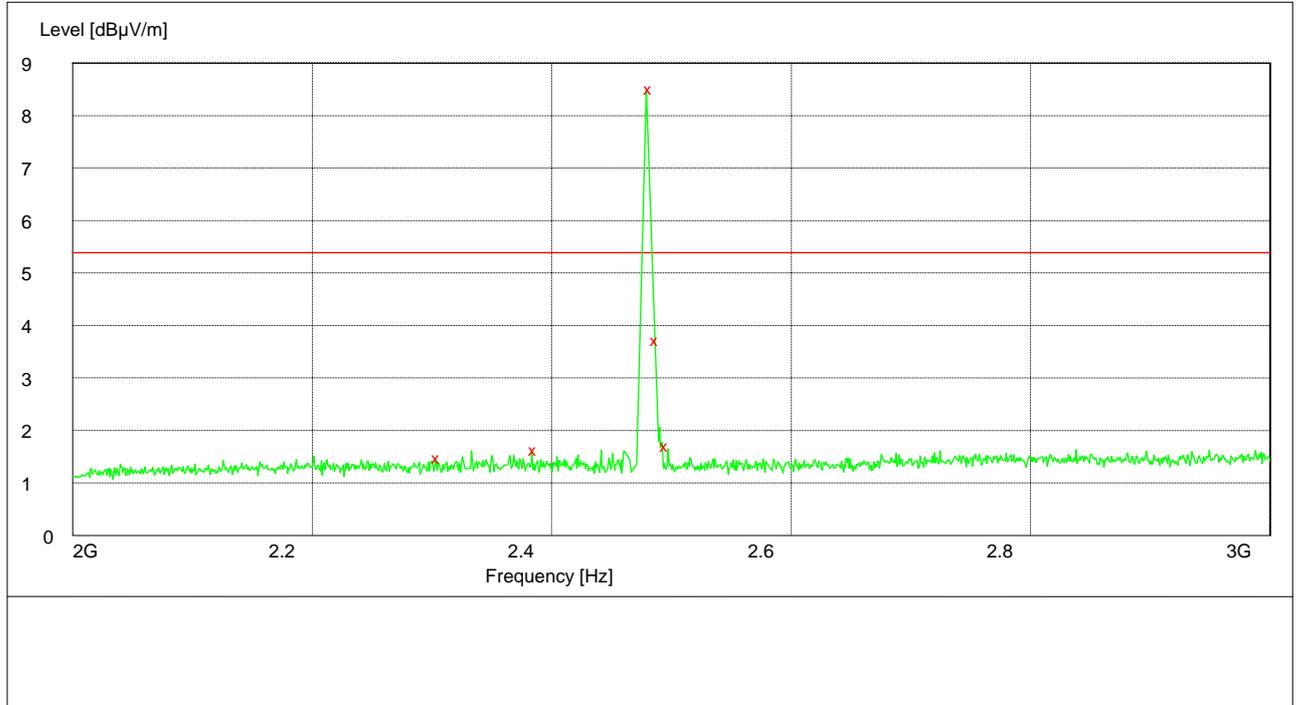
## 18GHz to 26GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
19003.500000	31.30	18.6	54.0	22.7	189.0	69.00	VERTICAL
19487.000000	30.10	18.9	54.0	23.9	131.0	211.00	HORIZONTAL
20895.000000	32.10	20.2	54.0	21.9	198.0	308.00	VERTICAL
22460.000000	33.20	20.3	54.0	20.8	155.0	115.00	HORIZONTAL
24583.000000	32.40	22.0	54.0	21.6	131.0	334.00	VERTICAL
26496.000000	34.20	27.9	54.0	19.8	152.0	207.00	VERTICAL



## 2GHz to 3GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	14.60	-11.9	54.0	39.4	115.0	42.00	HORIZONTAL
2390.000000	16.90	-11.6	54.0	37.1	128.0	248.00	VERTICAL
2462.000000	75.50	-11.3	54.0	-21.5	191.0	136.00	HORIZONTAL
2483.500000	38.20	-11.3	54.0	15.8	105.0	146.00	VERTICAL
2500.000000	17.30	-11.1	54.0	36.7	144.0	259.00	HORIZONTAL



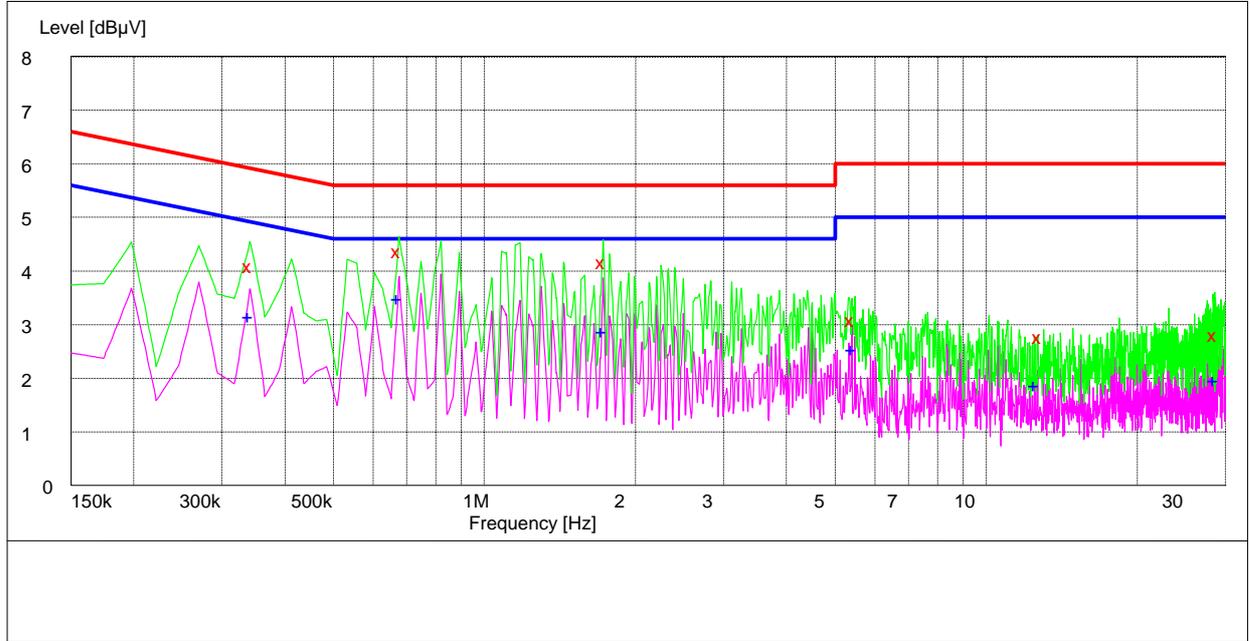
# Appendix G

## Conducted Emission at Power Port

According to FCC Part 15.207



## Channel 7



### MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.341040	41.20	10.0	59	17.8	L1	FLO
0.675360	43.70	10.1	56	12.3	L1	FLO
1.726080	42.00	10.1	56	14	L1	FLO
5.403600	31.10	10.2	60	28.9	L1	FLO
12.782520	27.60	10.3	60	32.4	L1	FLO
28.591080	28.30	10.4	60	31.7	L1	FLO

### MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.341040	31.90	10.0	49	17.1	L1	FLO
0.675360	34.30	10.1	46	11.7	L1	FLO
1.726080	29.10	10.1	46	16.9	L1	FLO
5.403600	26.10	10.2	60	33.9	L1	FLO
12.782520	19.60	10.3	60	40.4	L1	FLO
28.591080	20.80	10.4	50	29.2	L1	FLO



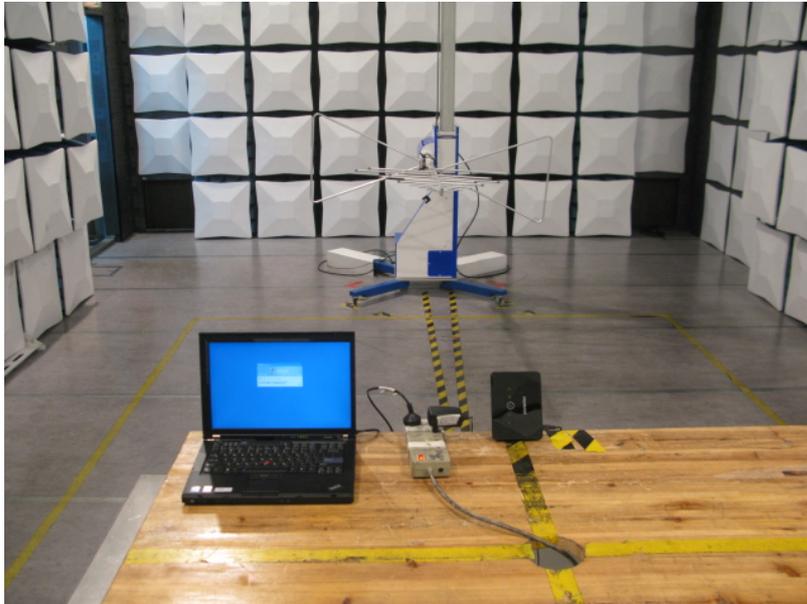


# Appendix H

## Photos of Test Setup



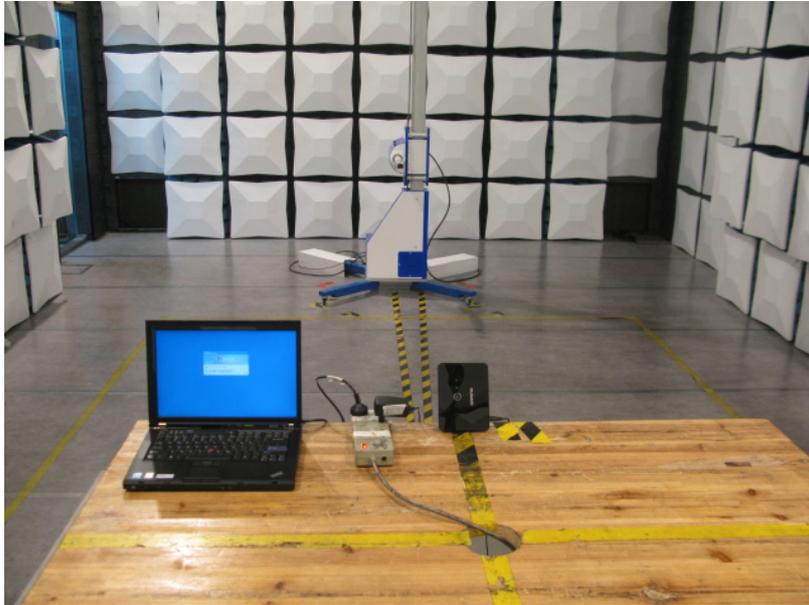
# 1 Radiated Spurious Emissions



Radiated Spurious Emission (below 2GHz)



Radiated Spurious Emission (2GHz to18GHz)



Radiated Spurious Emission (above 18GHz)



## 2 Conducted Emissions



Conducted Emissions for AC Ports