



Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



Channel 0 (2402MHz)



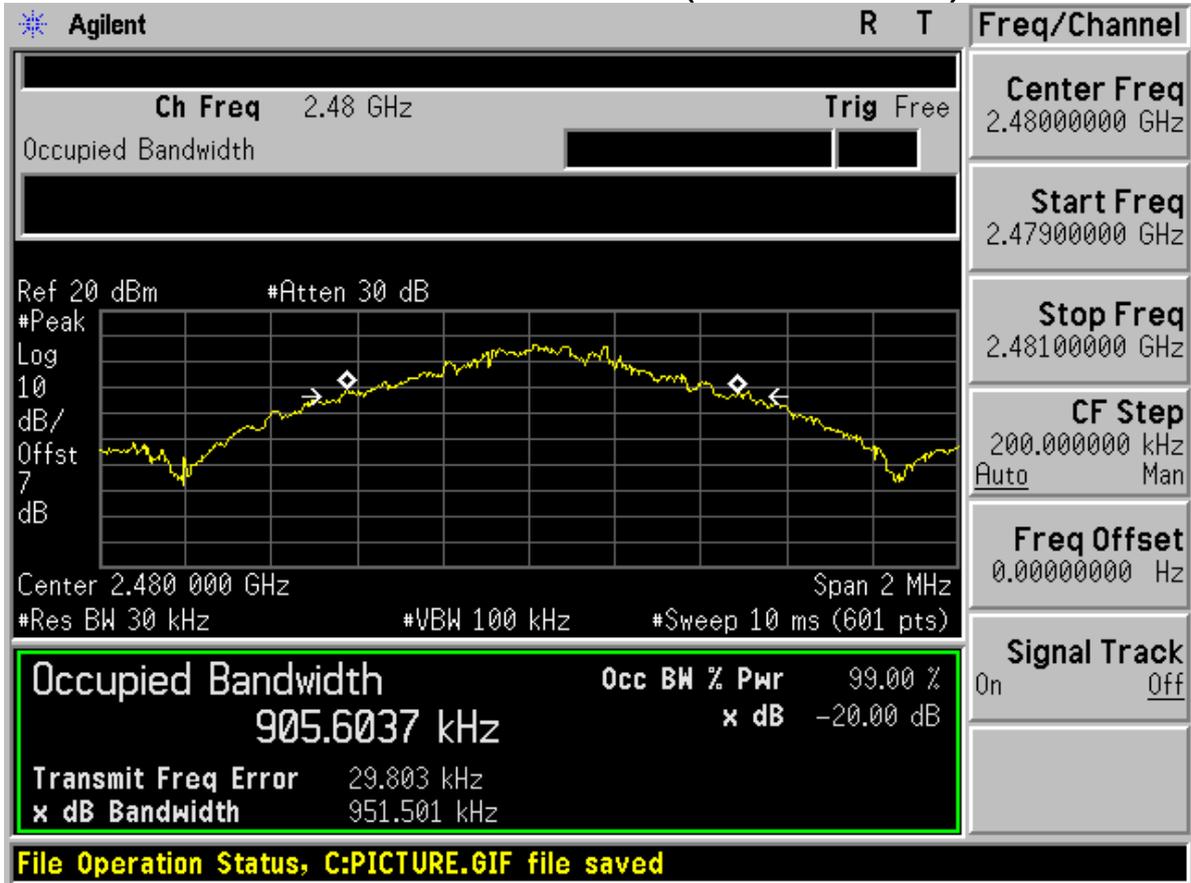


Channel 40 (2442MHz)

Agilent		R L	Freq/Channel
Ch Freq 2.442 GHz		Trig Free	Center Freq 2.44200000 GHz
Occupied Bandwidth			Start Freq 2.44100000 GHz
Ref 20 dBm #Atten 30 dB #Peak Log 10 dB/ Offst 7 dB 			Stop Freq 2.44300000 GHz
Center 2.442 000 GHz		Span 2 MHz	CF Step 200.000000 kHz Auto Man
#Res BW 30 kHz		#VBW 100 kHz	Freq Offset 0.00000000 Hz
#Sweep 10 ms (601 pts)			Signal Track On Off
Occupied Bandwidth 911.0813 kHz		Occ BW % Pwr 99.00 % x dB -20.00 dB	
Transmit Freq Error 28.155 kHz			
x dB Bandwidth 957.046 kHz			
File Operation Status, C:PICTURE.GIF file saved			



Channel 78 (2480MHz)





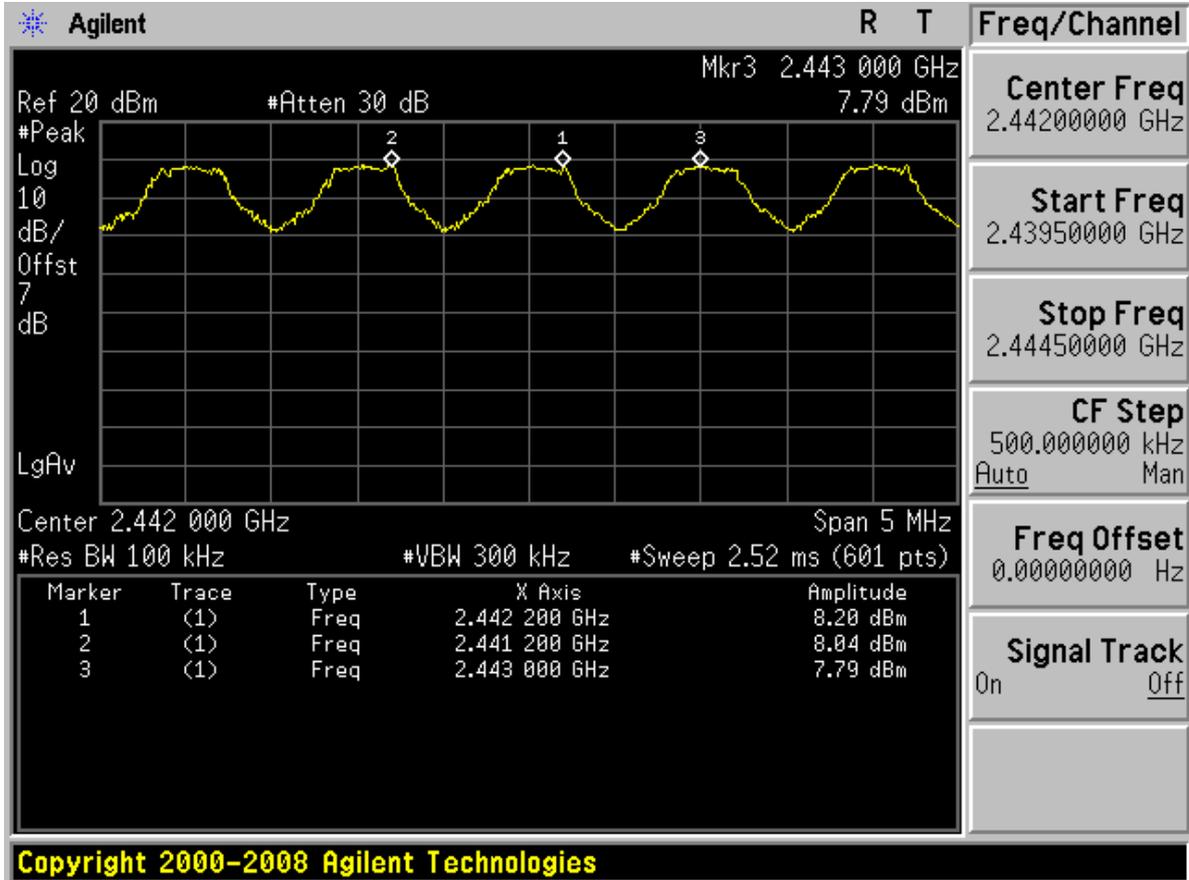
Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Centred at Channel 40





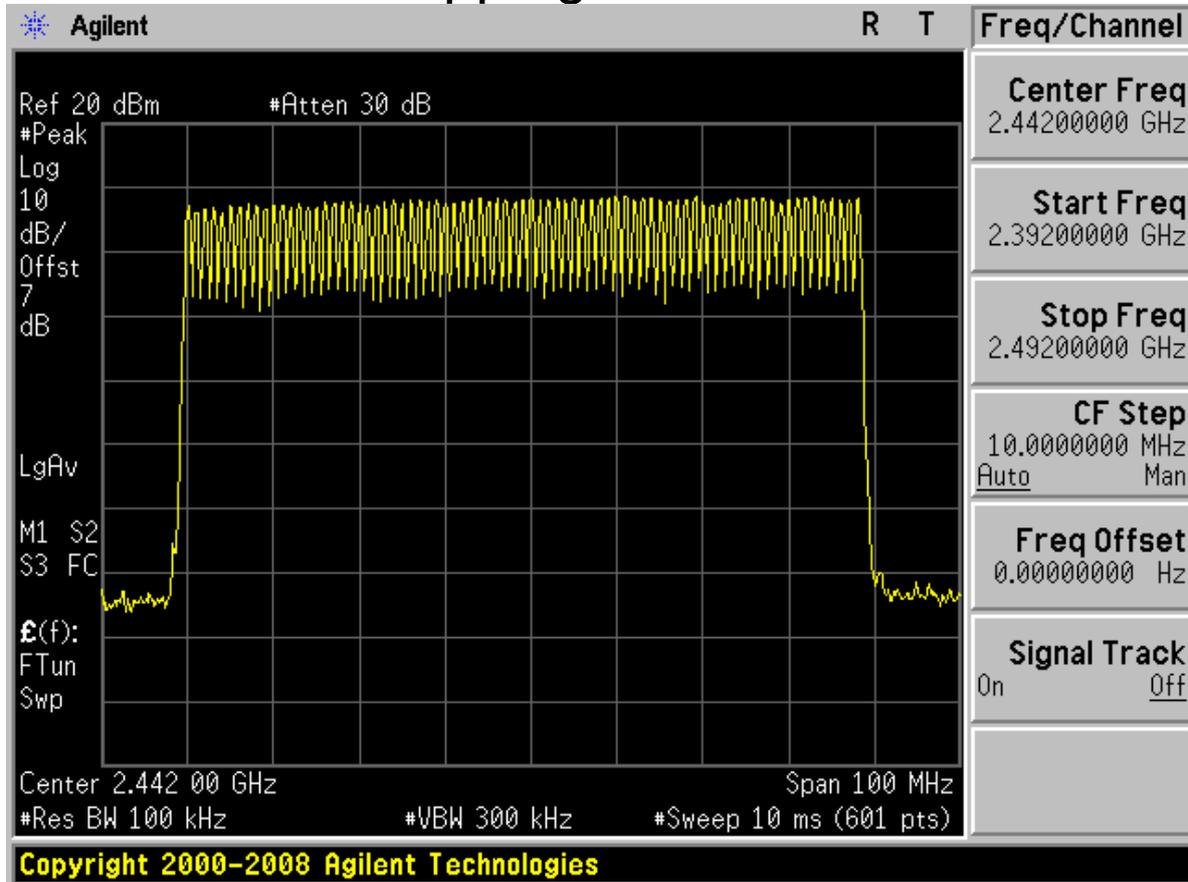
Appendix C

Number of hopping channel

According to FCC Part 15.247 (a) (1) iii



Total hopping channels = 79





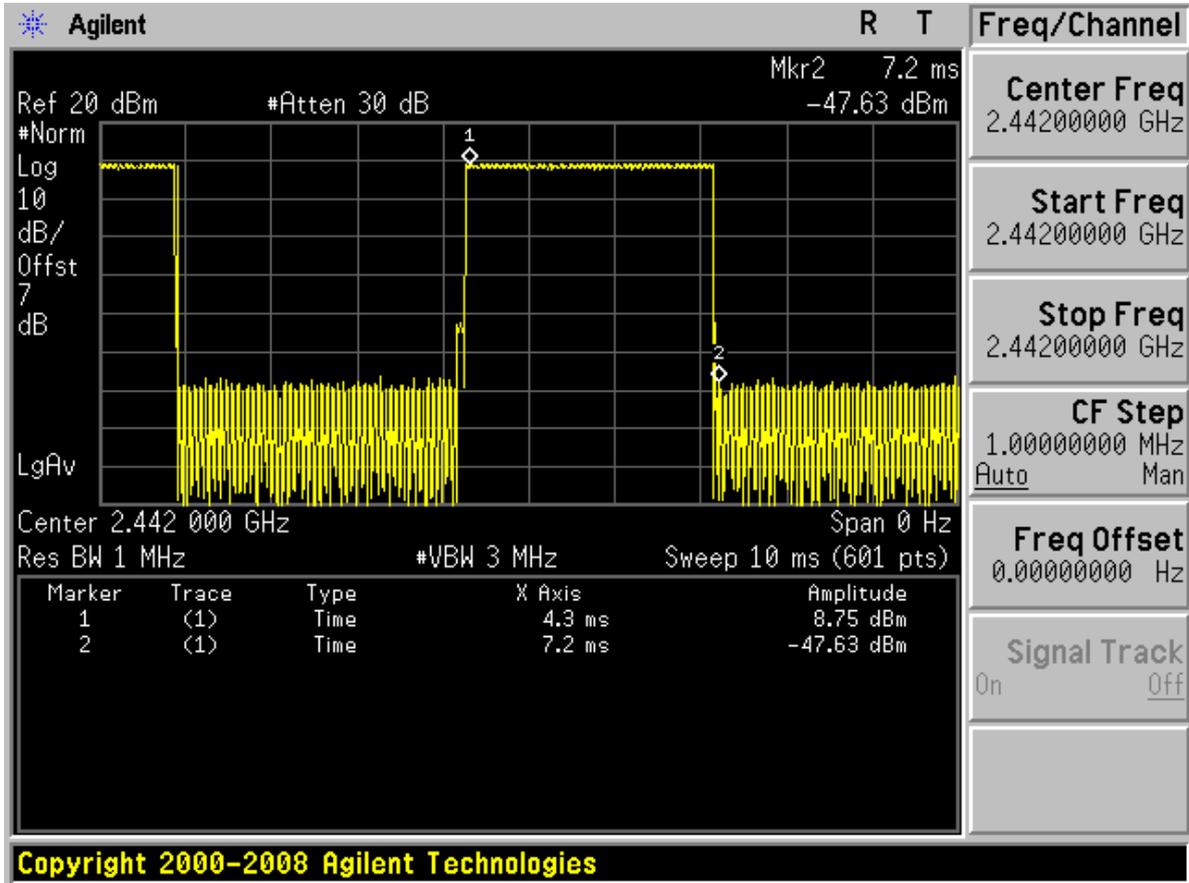
Appendix D

Time of occupancy

According to FCC Part 15.247 (a) (1) iii

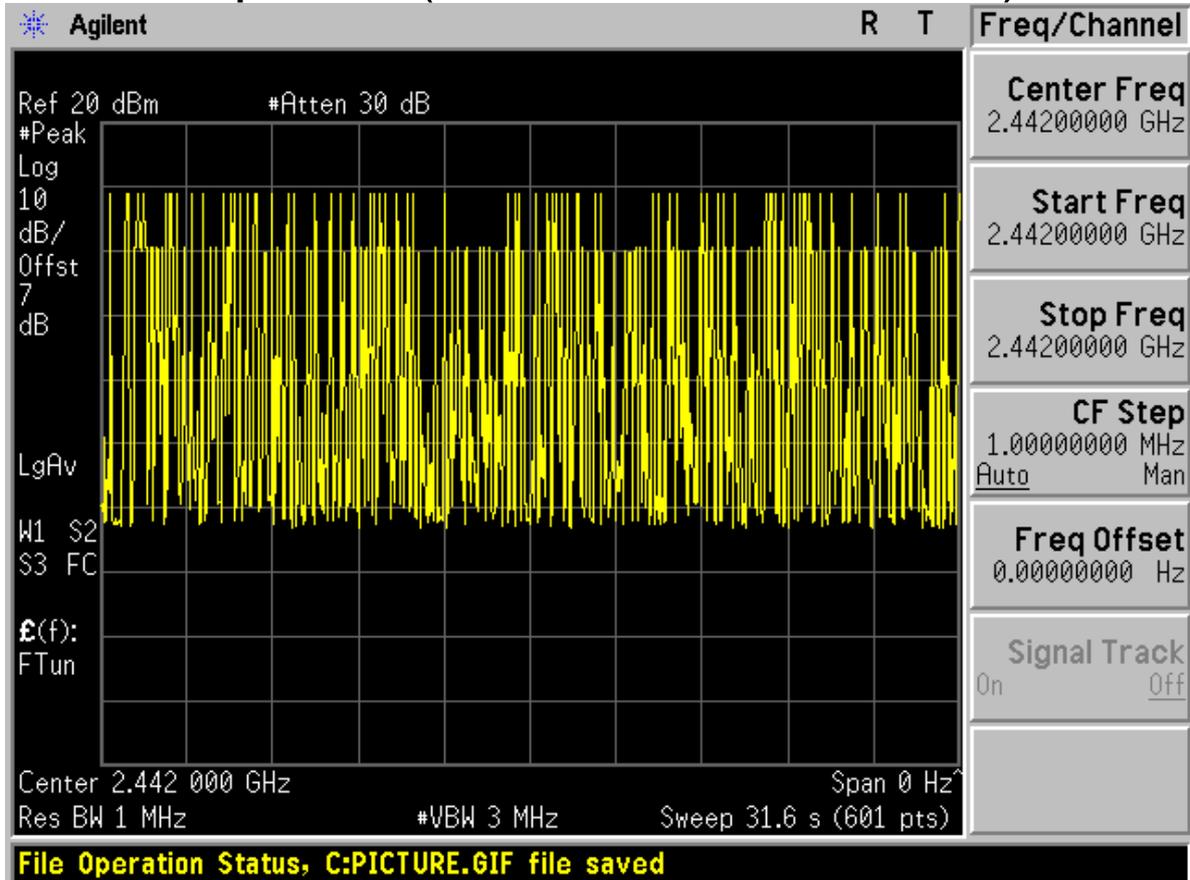


A burst (One time slot)





A period (Less than 106.7 burst)





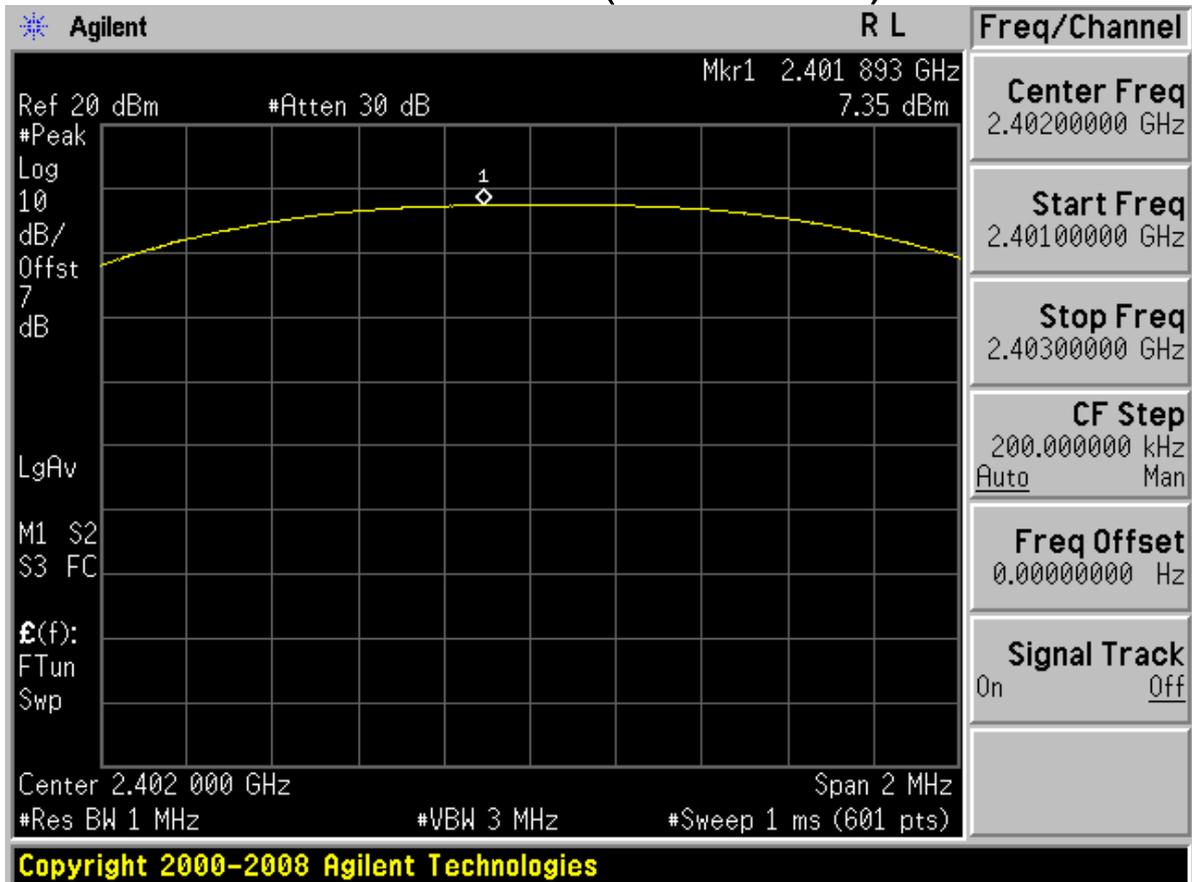
Appendix E

Peak output power

According to FCC Part 15.247 (b) (1)

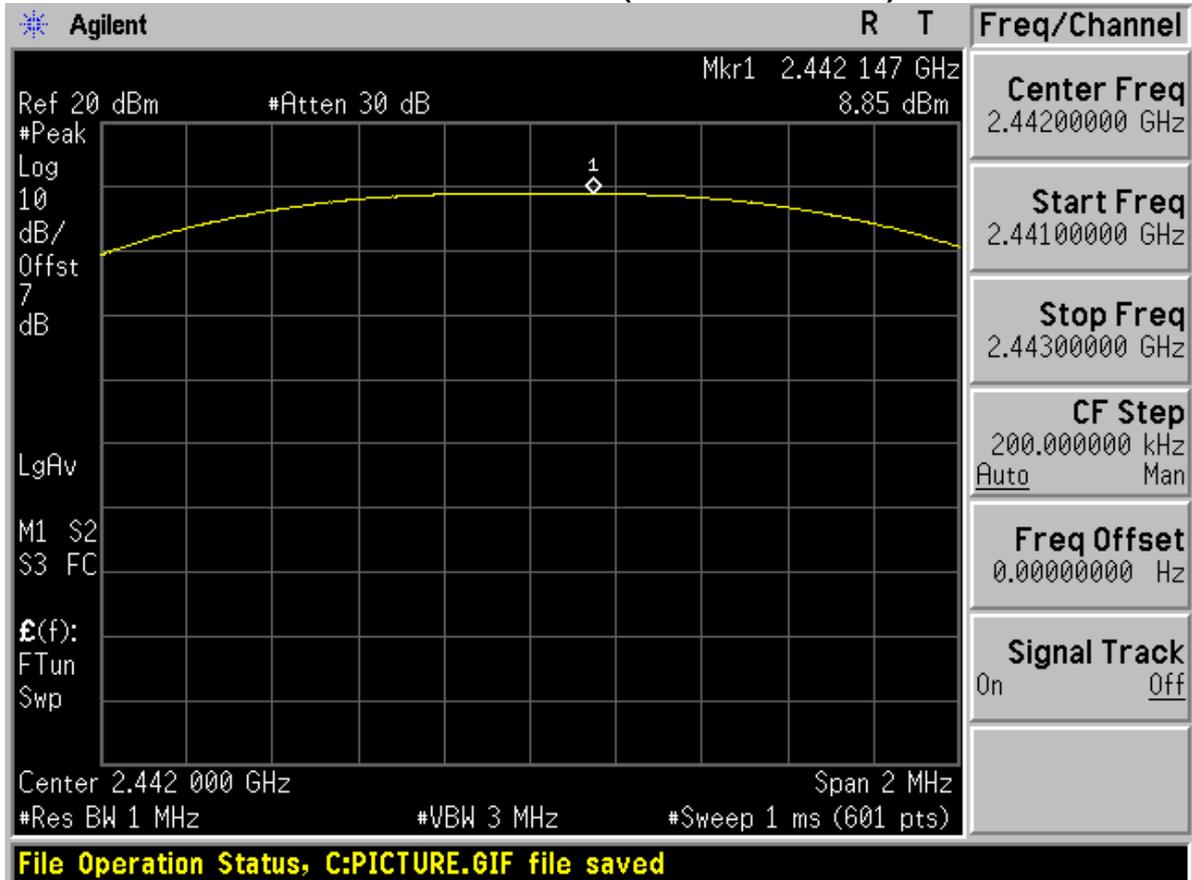


Channel 0 (2402MHz)



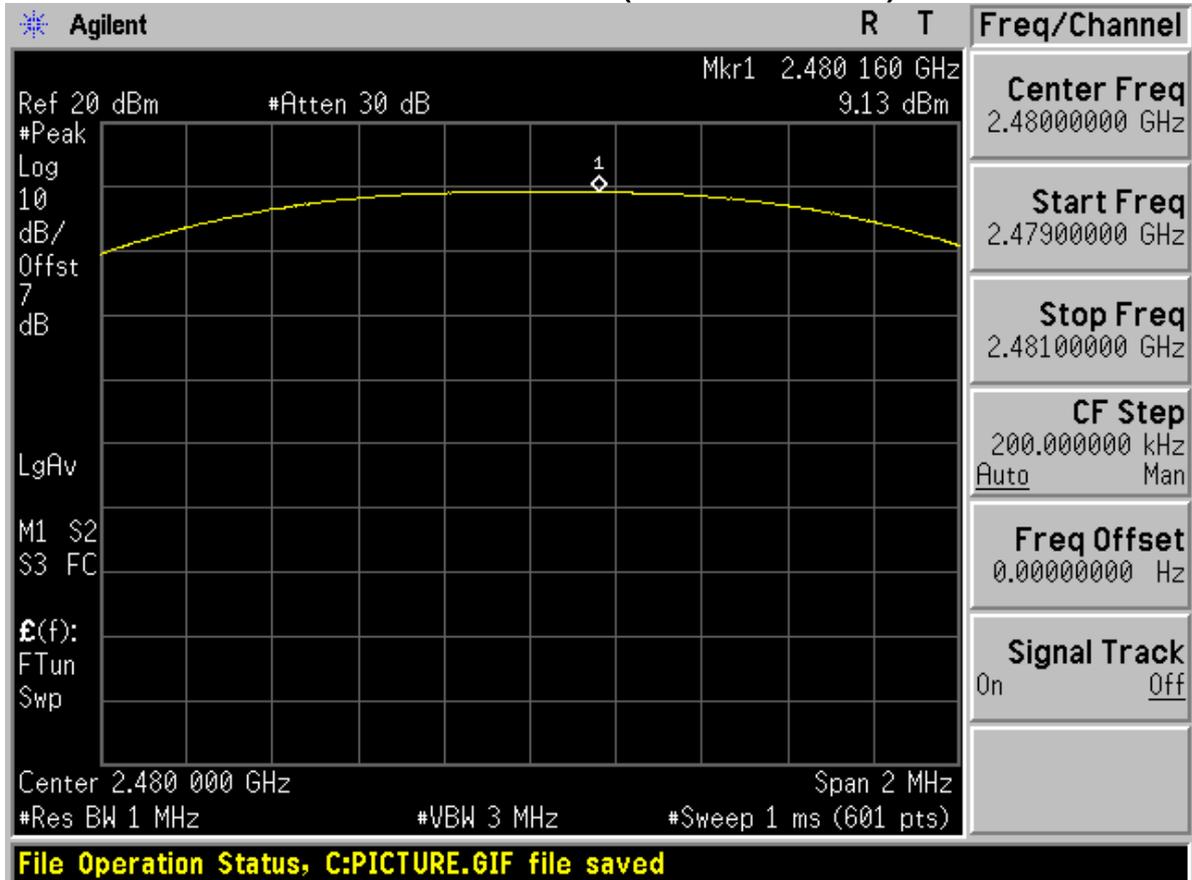


Channel 40 (2442MHz)





Channel 78 (2480MHz)





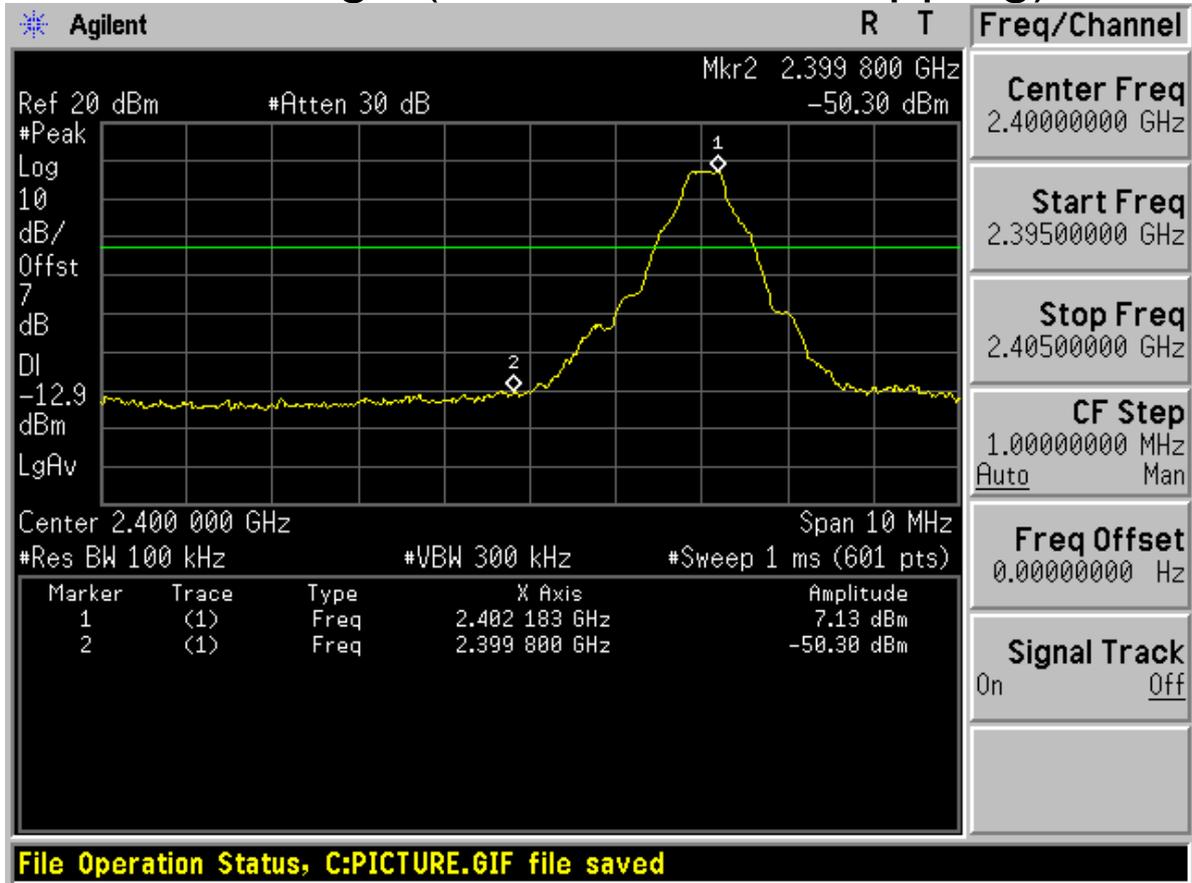
Appendix F

Band edge spurious emission

According to FCC Part 15.247 (d)

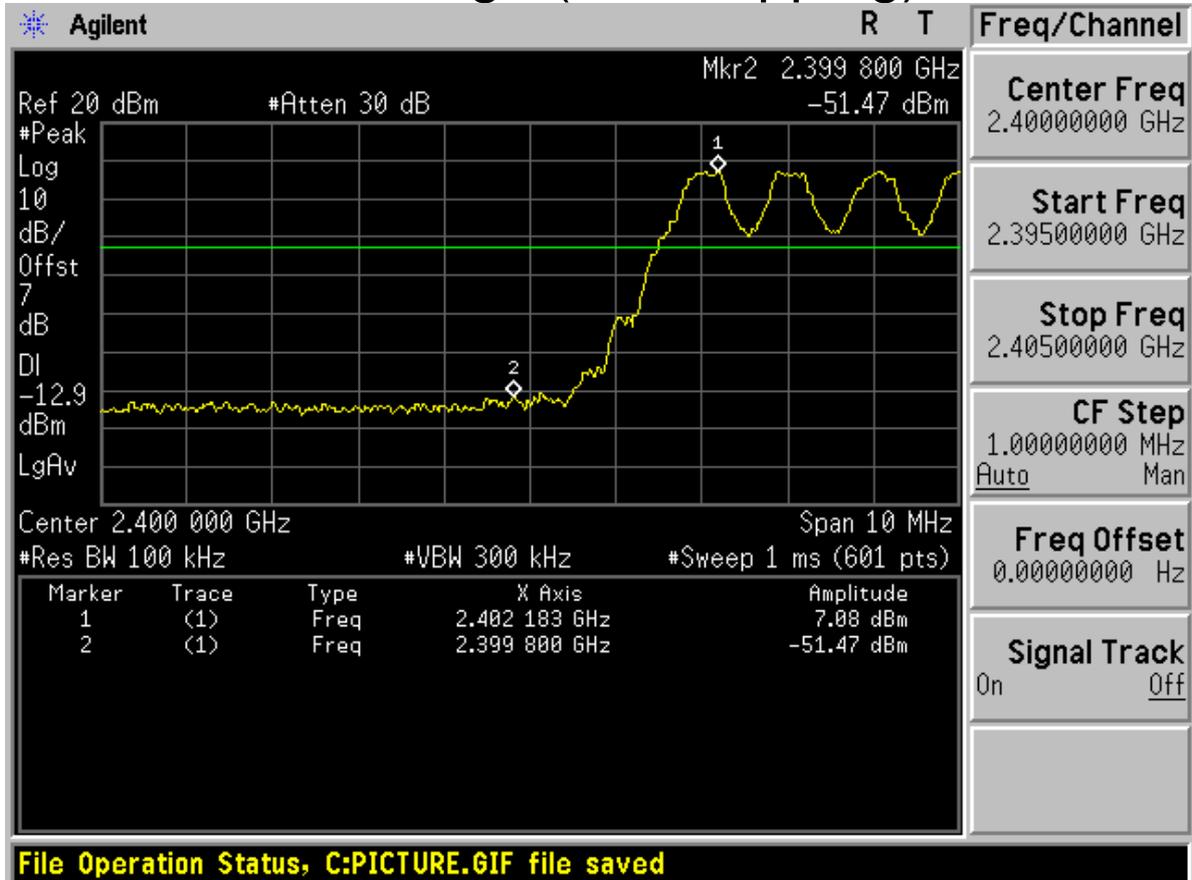


Low edge (Channel 0, no hopping)



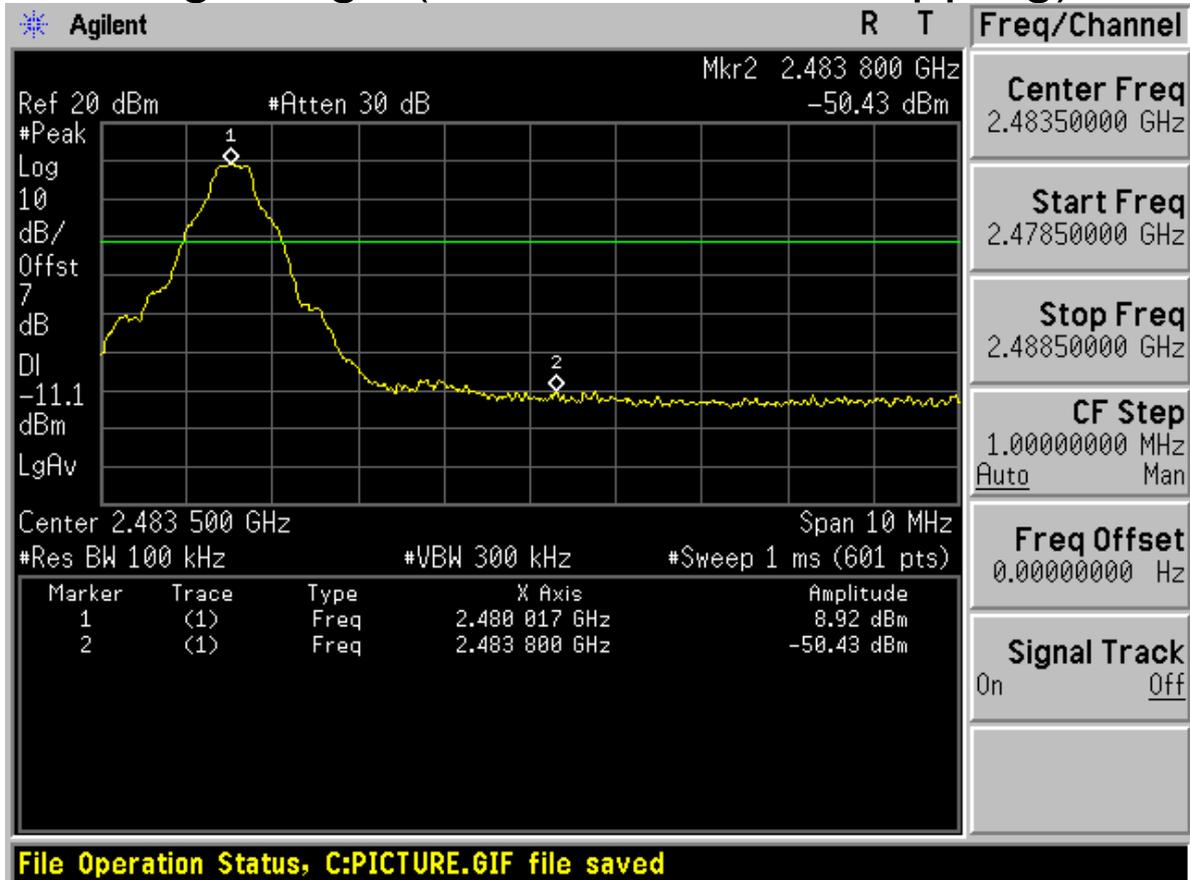


Low edge (with hopping)



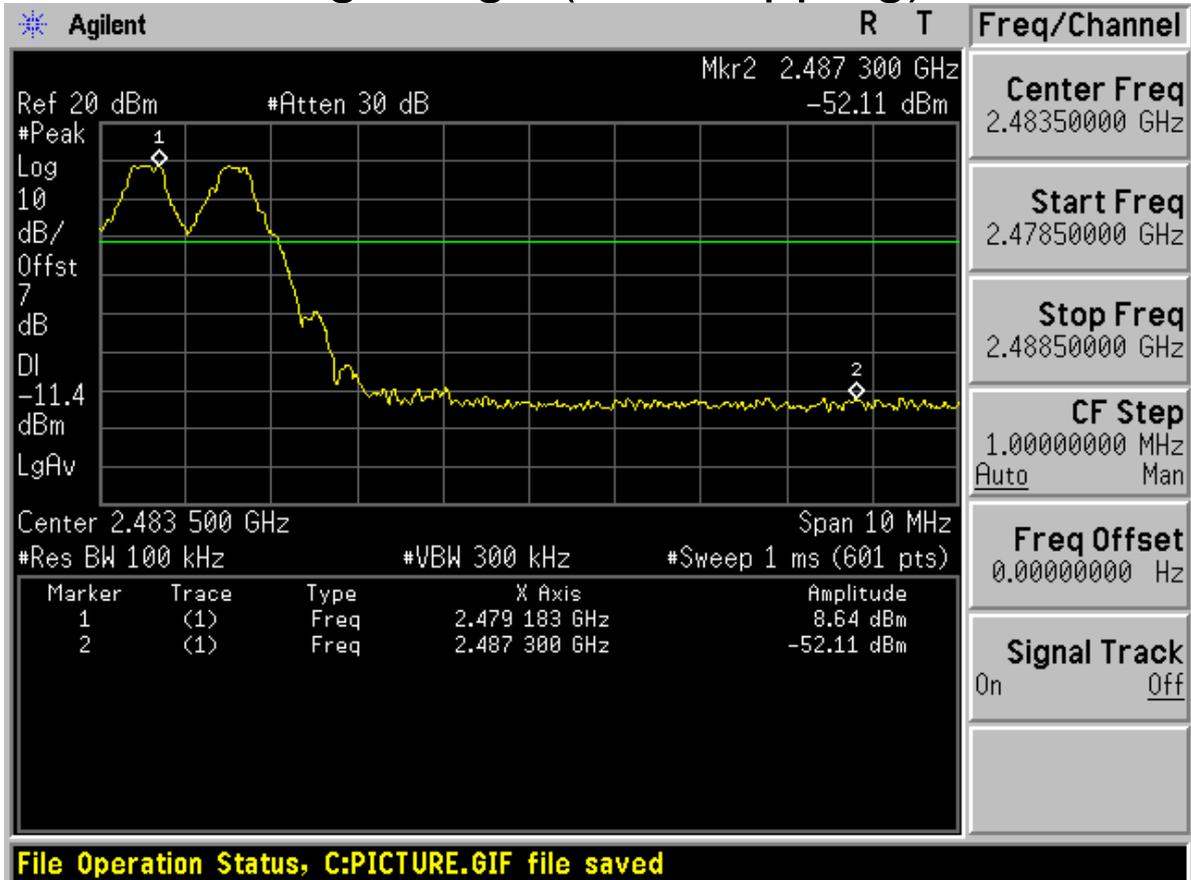


High edge (Channel 78, no hopping)





High edge (with hopping)





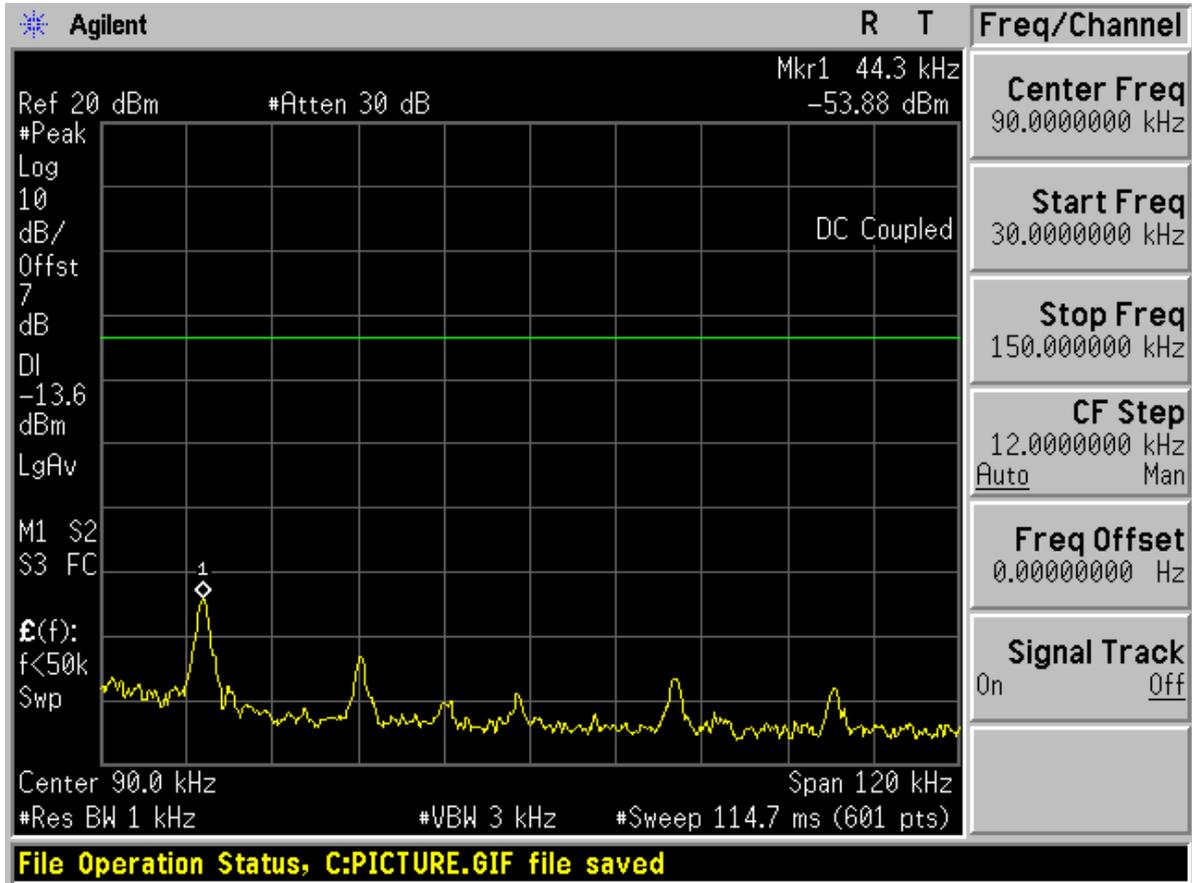
Appendix G

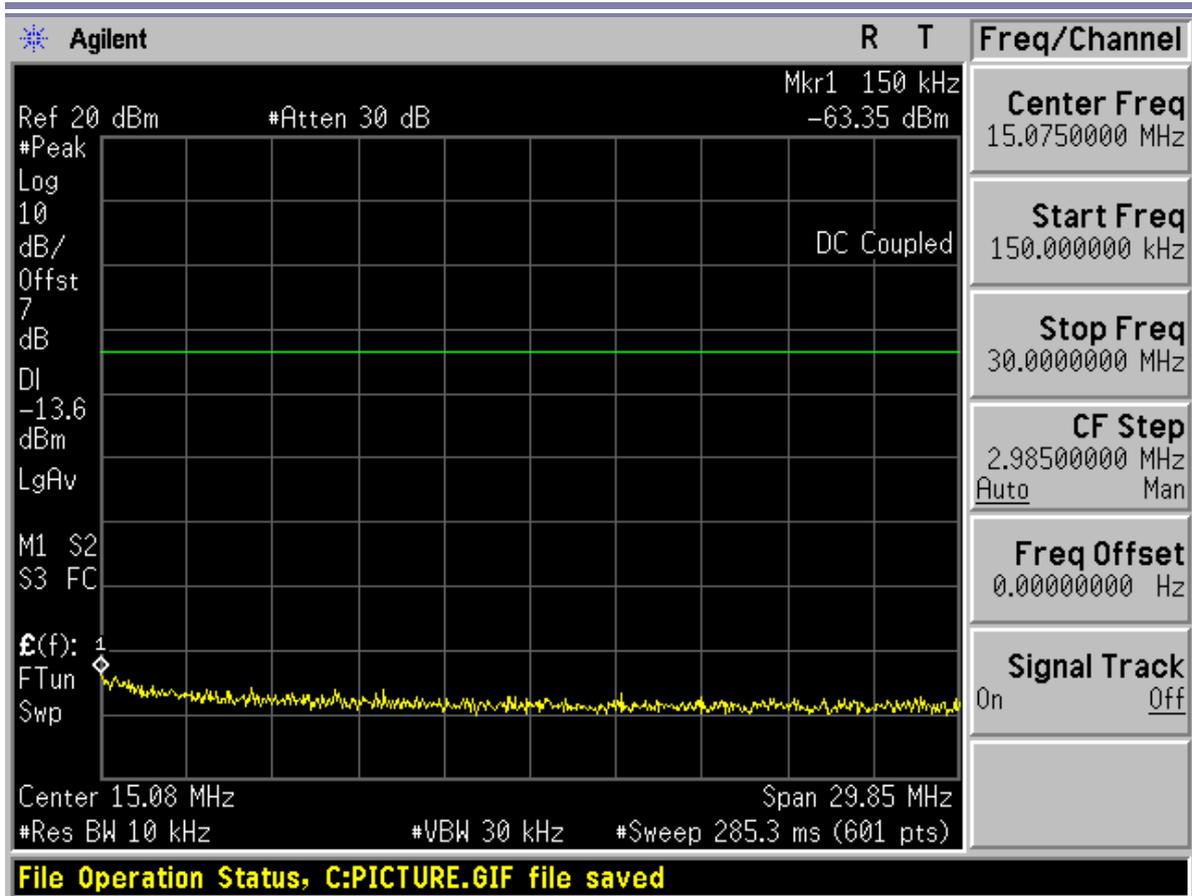
Conducted RF spurious

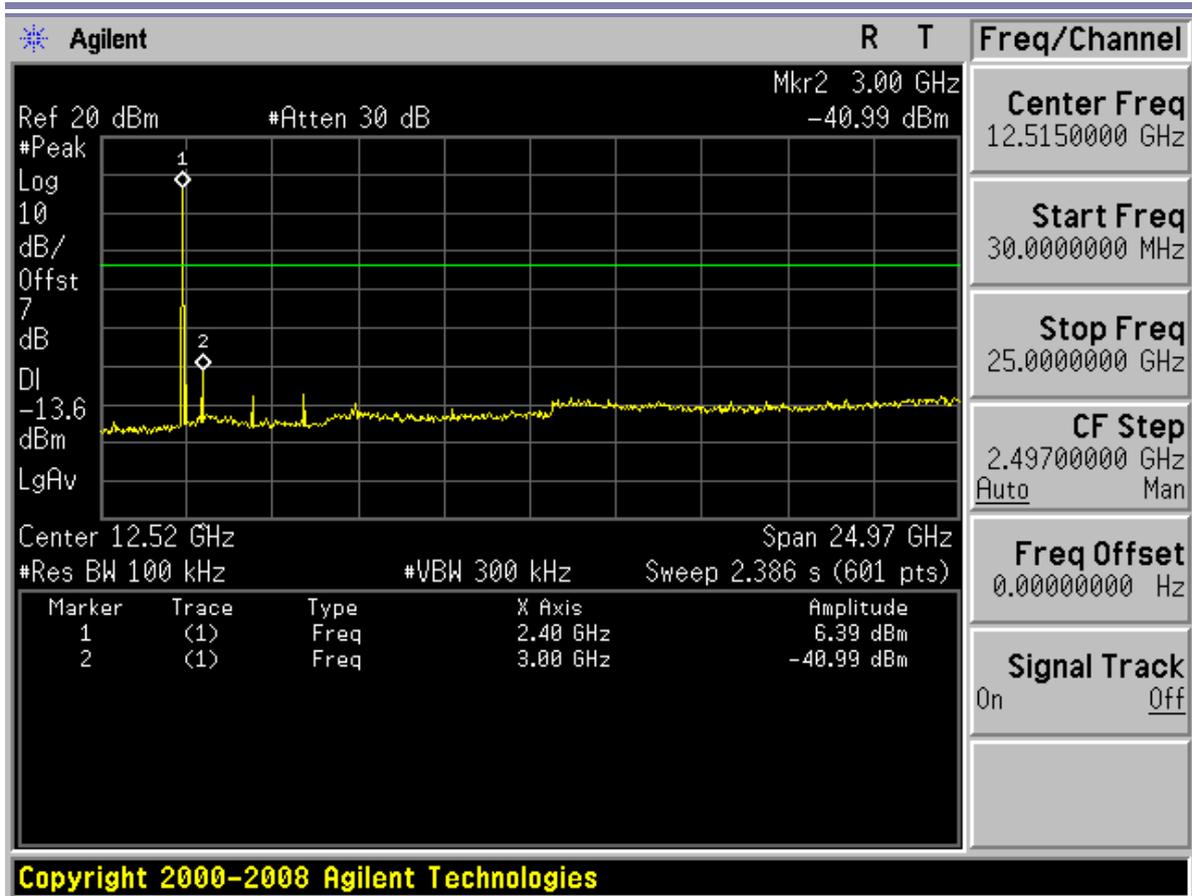
According to FCC Part 15.247 (d)



Channel 0

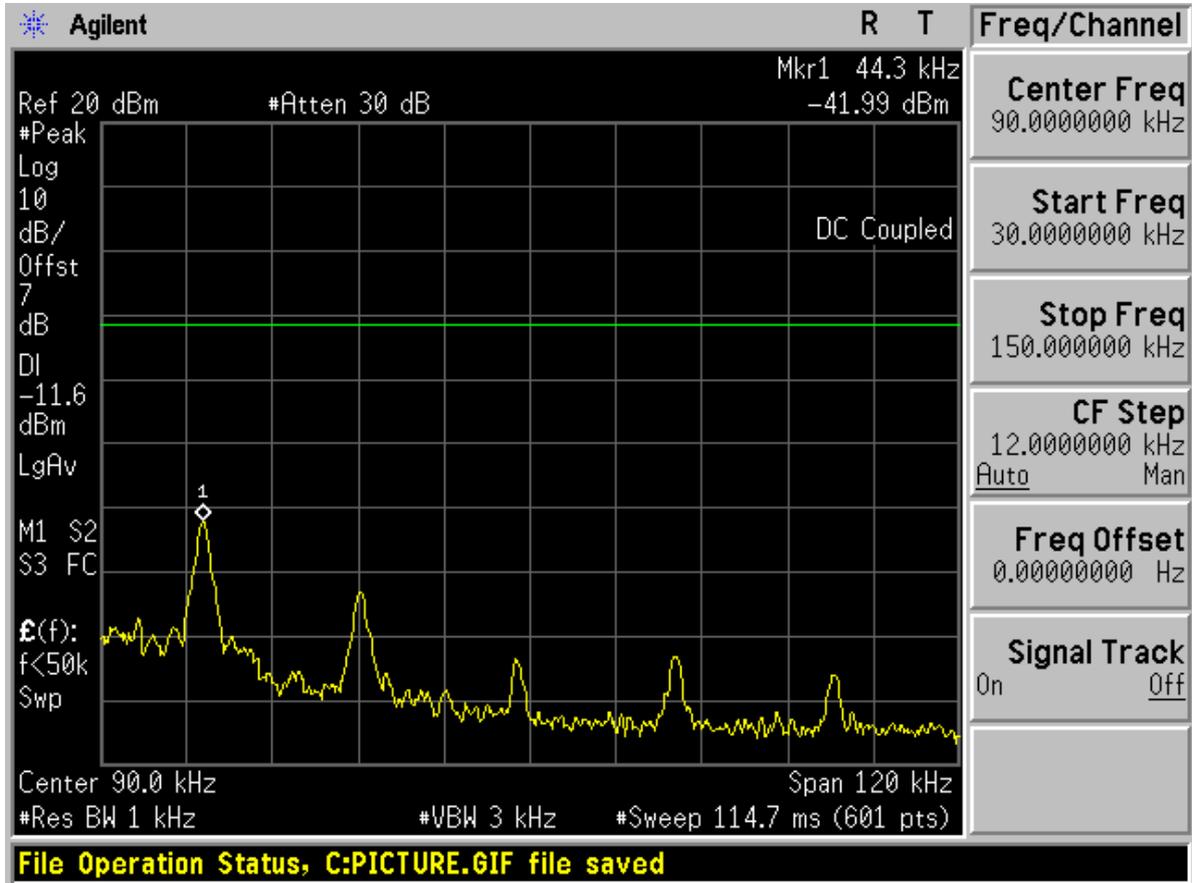


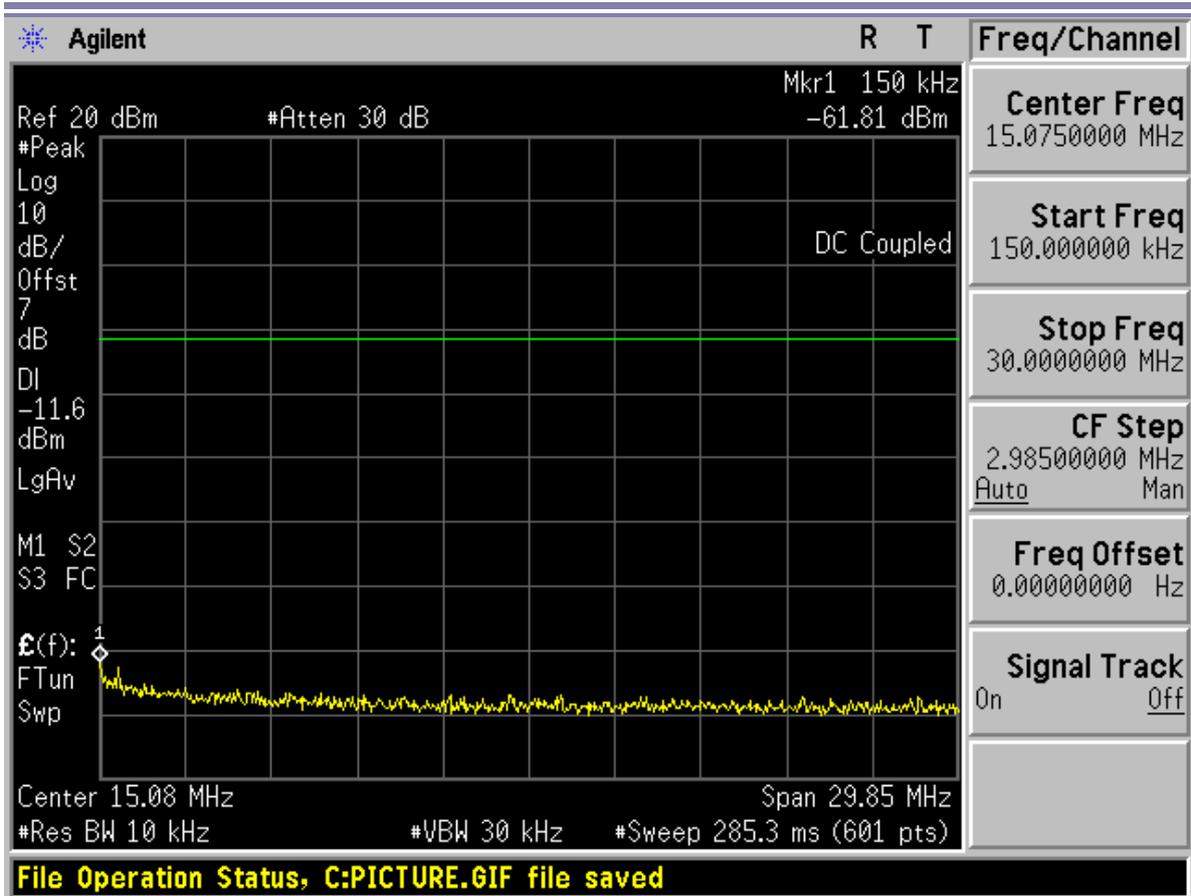


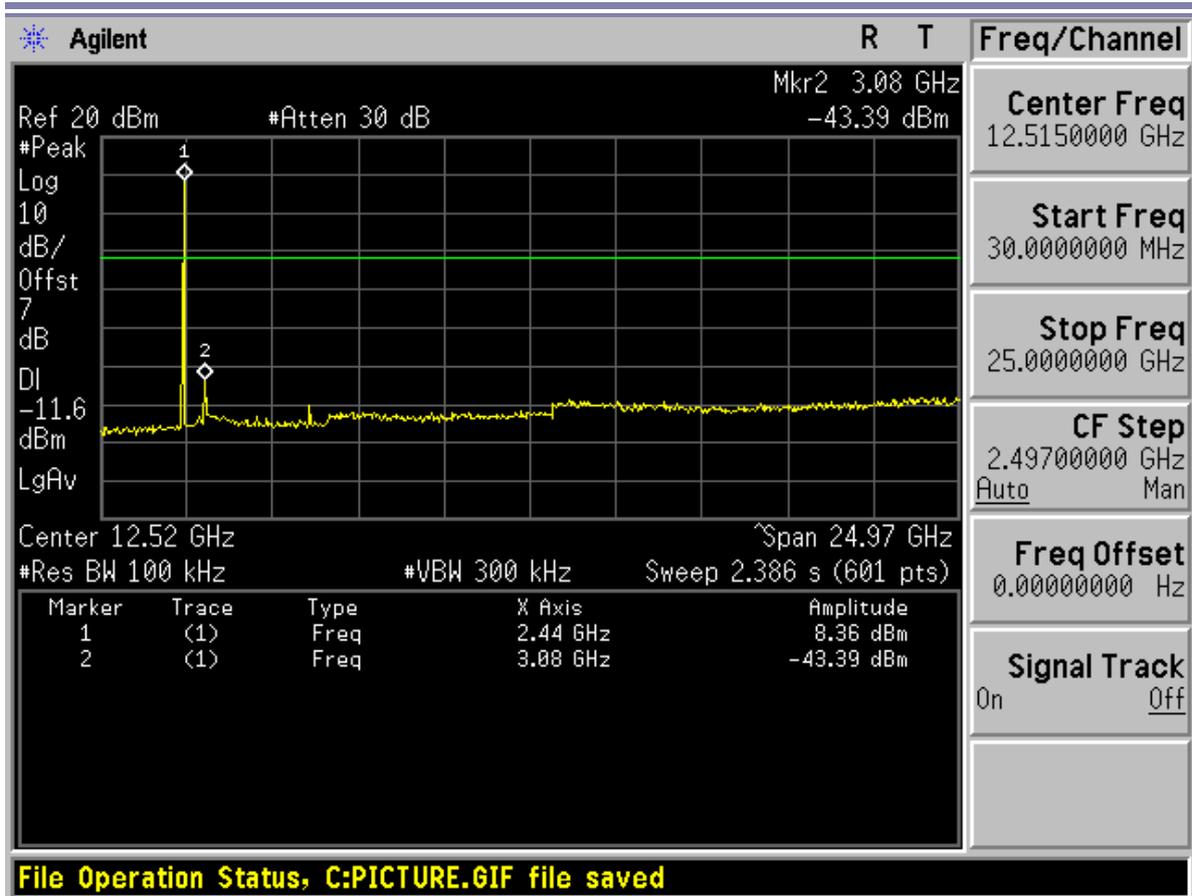




Channel 40

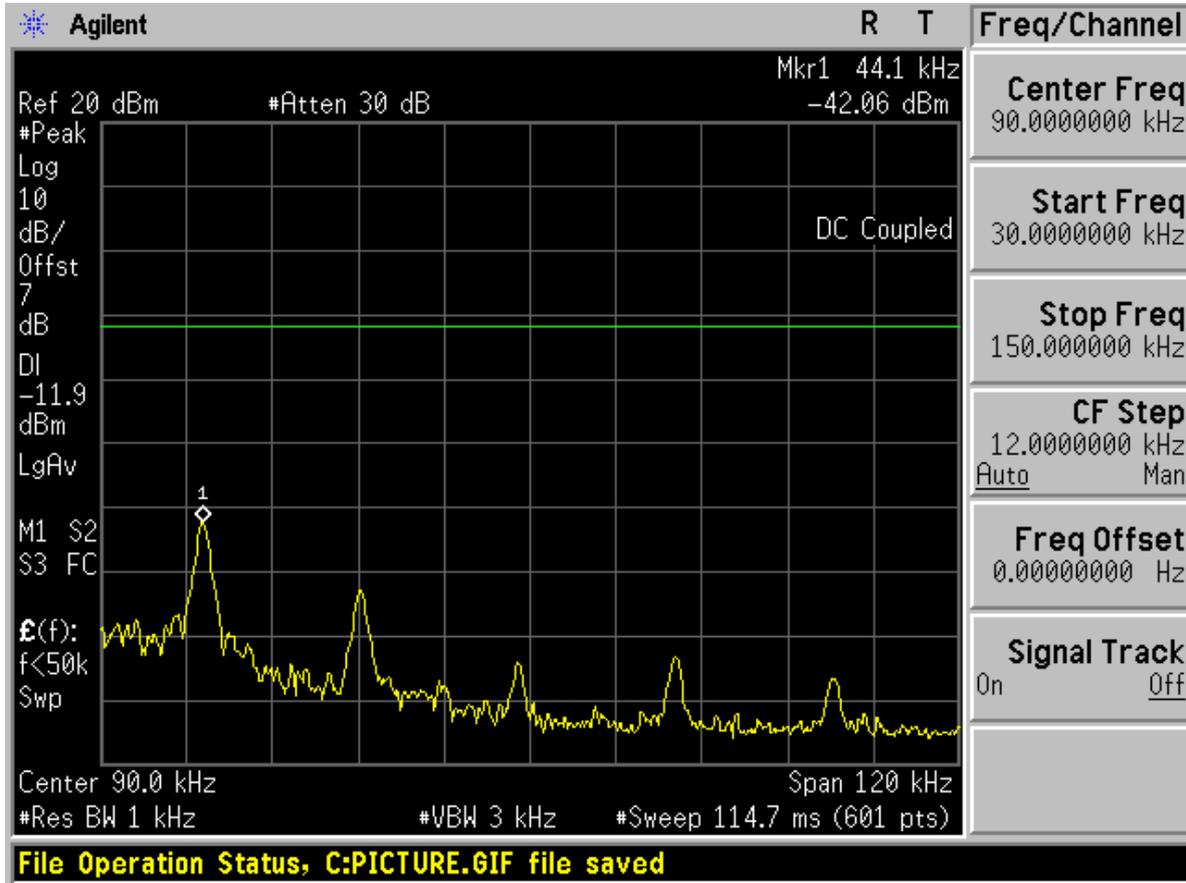


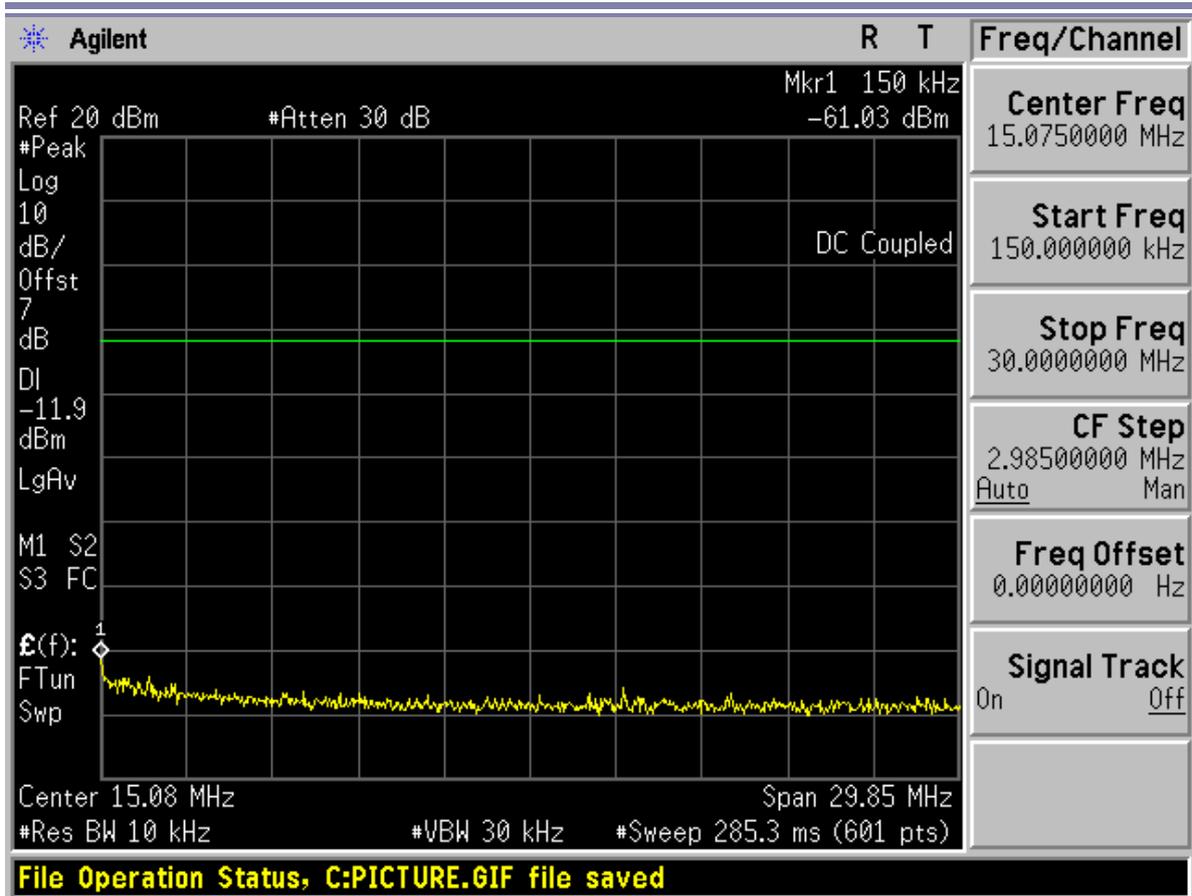


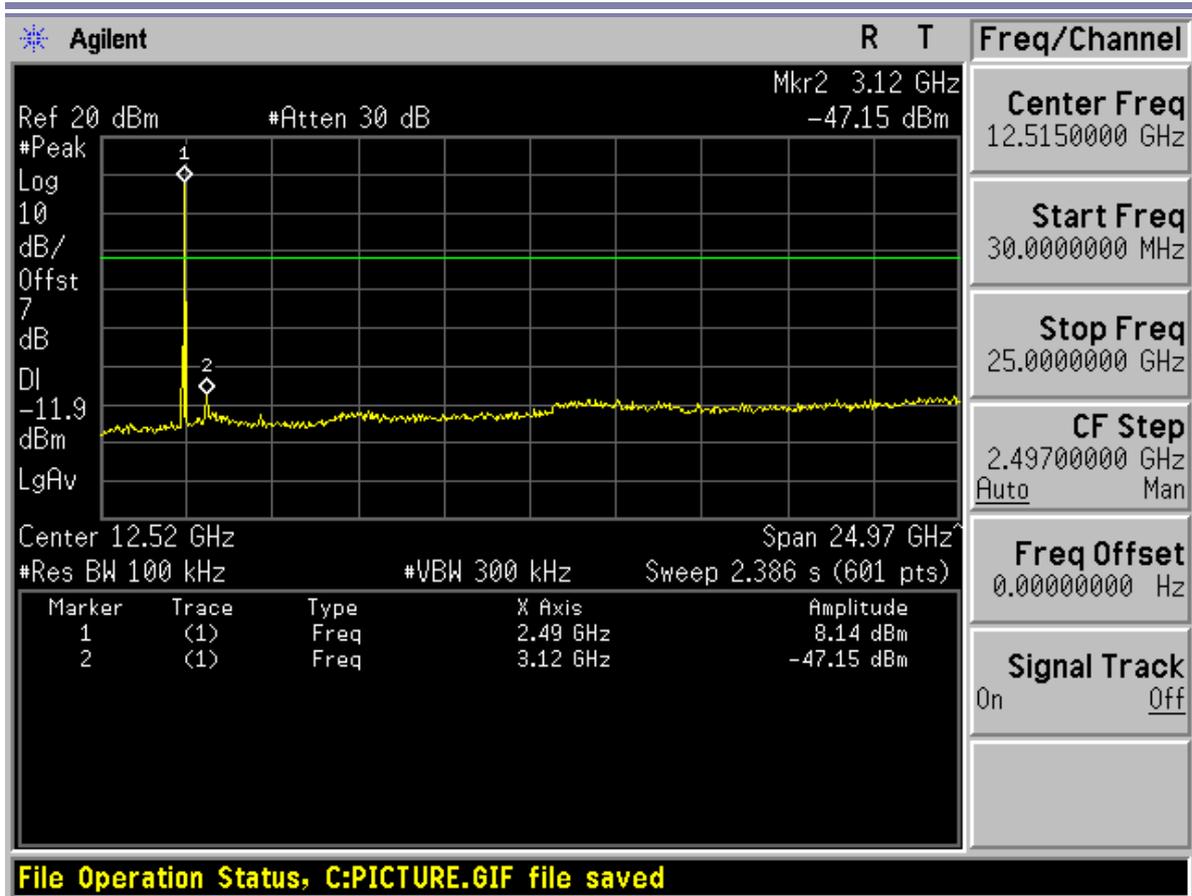




Channel 78









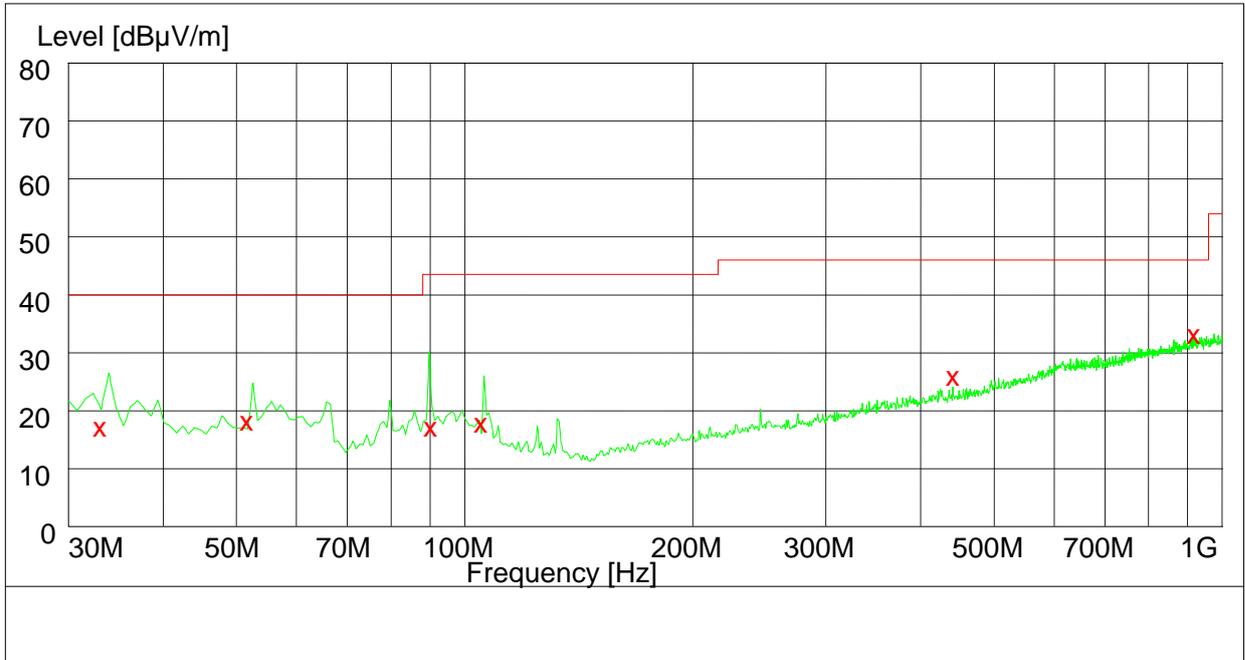
Appendix H

Radiated spurious emission

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



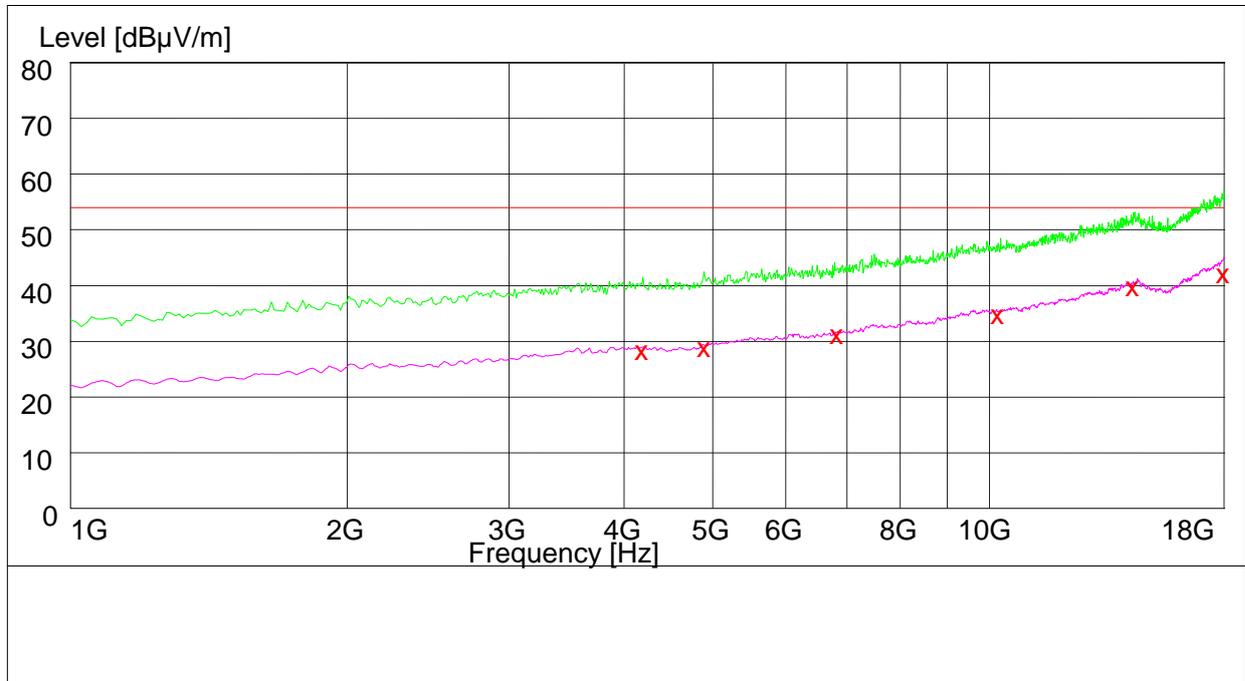
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.100000	18.40	11.7	40.0	21.6	198.0	88.00	HORIZONTAL
51.724000	19.40	12.8	40.0	20.6	227.0	131.00	HORIZONTAL
90.472000	18.30	11.8	43.5	25.2	154.0	271.00	HORIZONTAL
105.328000	19.10	12.7	43.5	24.4	246.0	114.00	HORIZONTAL
441.580000	27.20	18.9	46.0	18.8	100.0	46.00	HORIZONTAL
919.360000	34.40	26.4	46.0	11.6	100.0	181.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
4189.000000	28.60	5.5	54.0	25.4	141.0	102.00	HORIZONTAL
4894.500000	29.10	7.2	54.0	24.9	112.0	73.00	VERTICAL
6828.500000	31.20	10.3	54.0	22.8	102.0	125.00	HORIZONTAL
10219.000000	34.50	16.2	54.0	19.5	124.0	74.00	VERTICAL
14333.000000	39.50	22.0	54.0	14.5	151.0	115.00	VERTICAL
17980.500000	43.50	27.6	54.0	10.5	131.0	154.00	HORIZONTAL

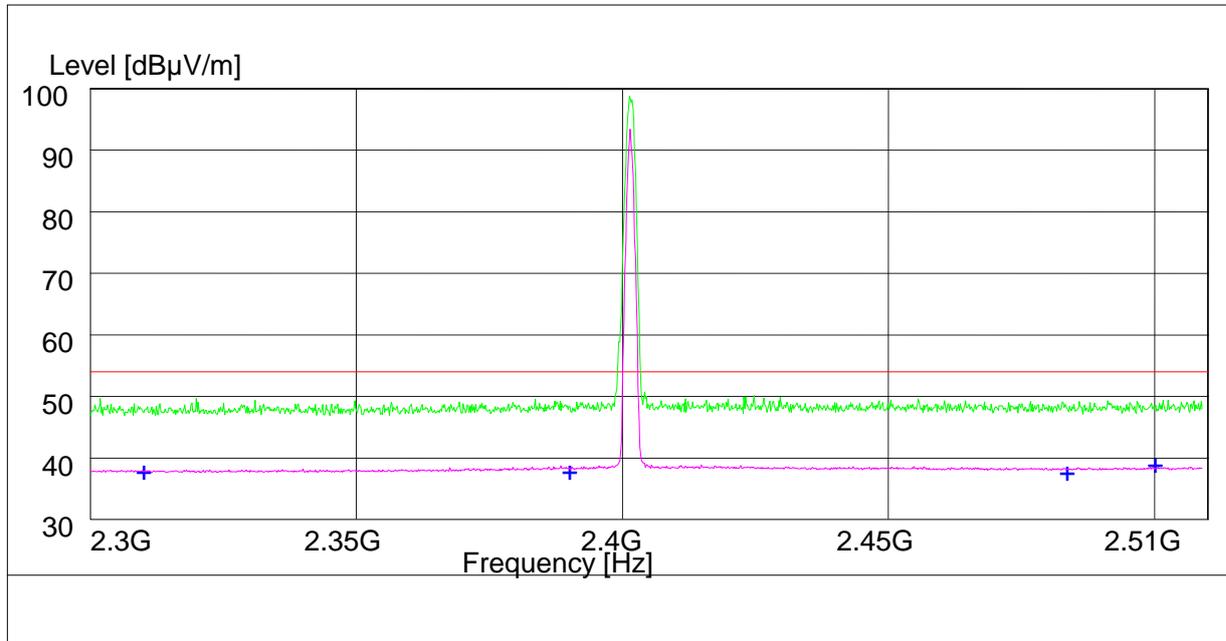


18GHz to 26GHz

Note: No peak found in pre- test.



2.30GHz to 2.51GHz

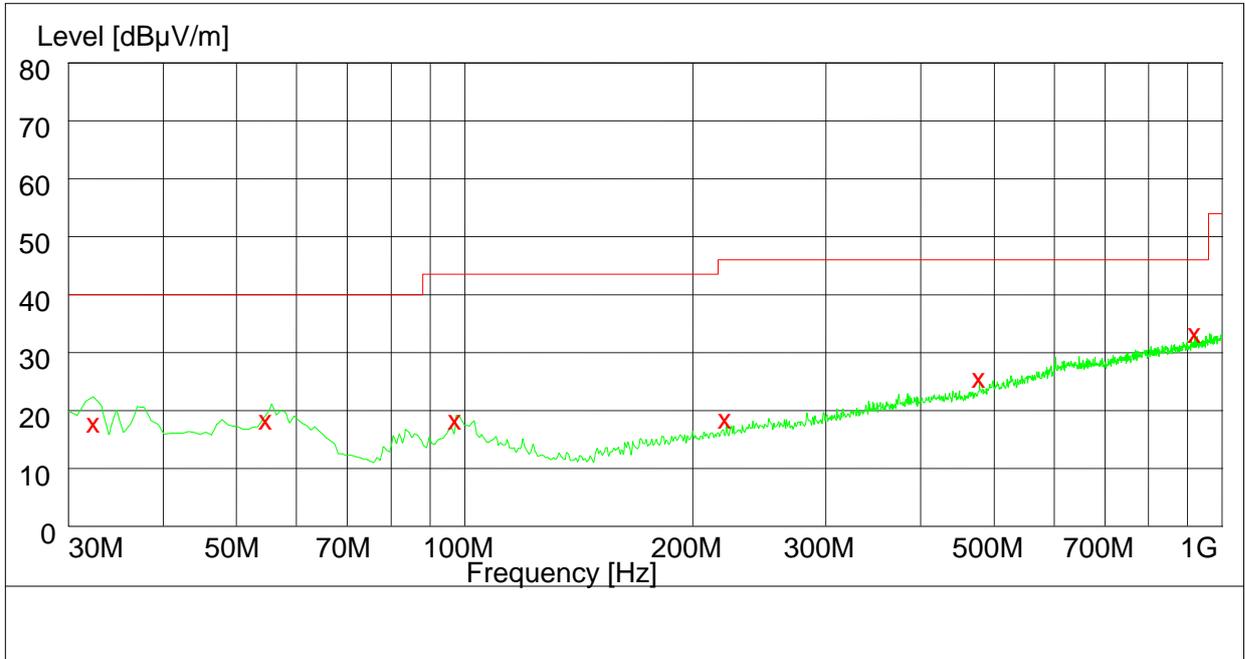


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.80	33.3	54.0	15.2	121.0	212.00	HORIZONTAL
2390.000000	39.60	33.5	54.0	14.4	107.0	128.00	VERTICAL
2483.500000	38.70	33.7	54.0	15.3	152.0	208.00	HORIZONTAL
2500.000000	39.50	33.7	54.0	14.5	132.0	108.00	VERTICAL



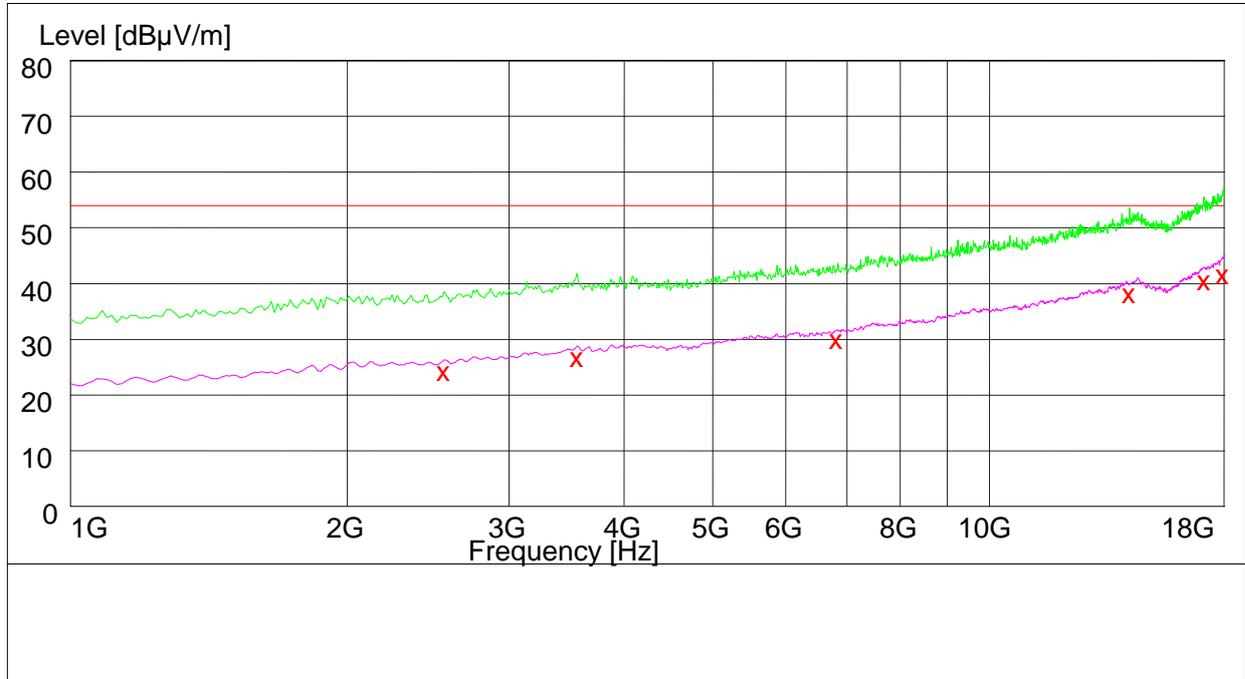
Channel 40 30MHz to 1GHz



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
32.388000	19.10	11.7	40.0	20.9	117.0	317.00	VERTICAL
54.708000	19.60	12.7	40.0	20.4	100.0	359.00	VERTICAL
97.272000	19.60	12.9	43.5	23.9	215.0	50.00	HORIZONTAL
221.192000	19.70	13.0	46.0	26.3	128.0	145.00	HORIZONTAL
478.168000	26.80	19.6	46.0	19.2	106.0	328.00	HORIZONTAL
920.068000	34.50	26.4	46.0	11.5	185.0	315.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2550.500000	25.60	0.4	54.0	28.4	110.0	212.00	HORIZONTAL
3555.500000	28.00	4.0	54.0	26.0	132.0	123.00	VERTICAL
6820.500000	31.40	10.2	54.0	22.6	124.0	125.00	HORIZONTAL
14199.500000	39.40	21.6	54.0	14.6	128.0	74.00	VERTICAL
17118.000000	41.90	25.1	54.0	12.1	120.0	235.00	VERTICAL
17958.000000	43.00	27.4	54.0	11.0	135.0	174.00	HORIZONTAL

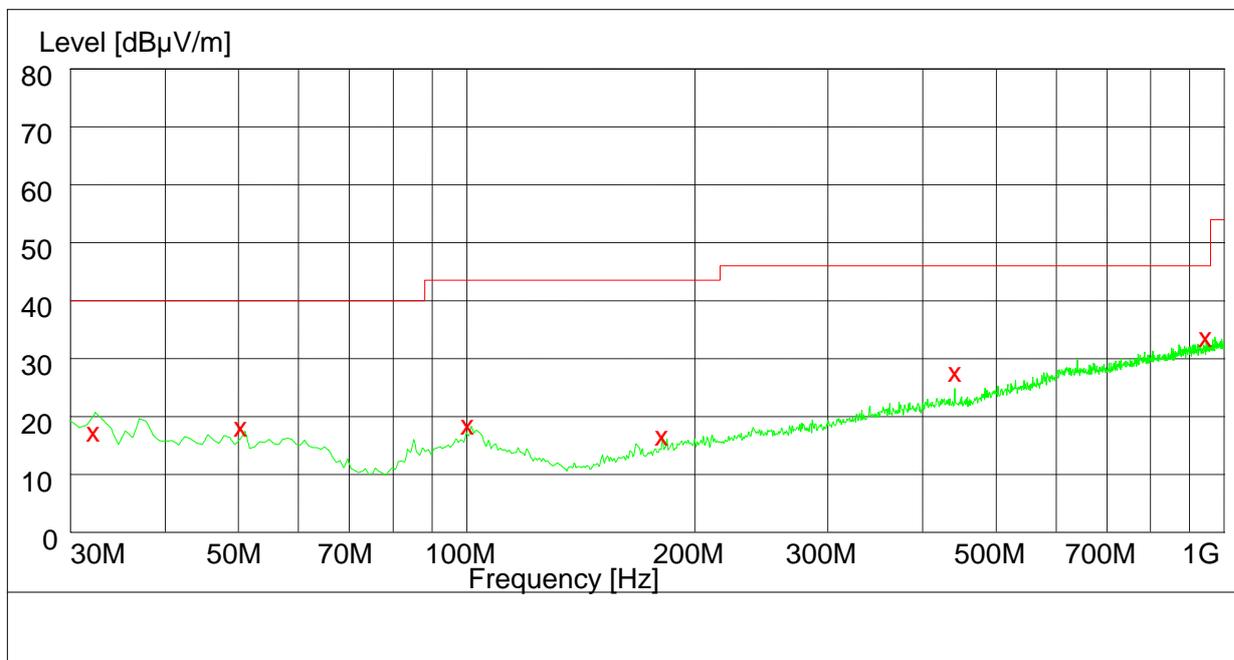


18GHz to 26GHz

Note: No peak found in pre- test.



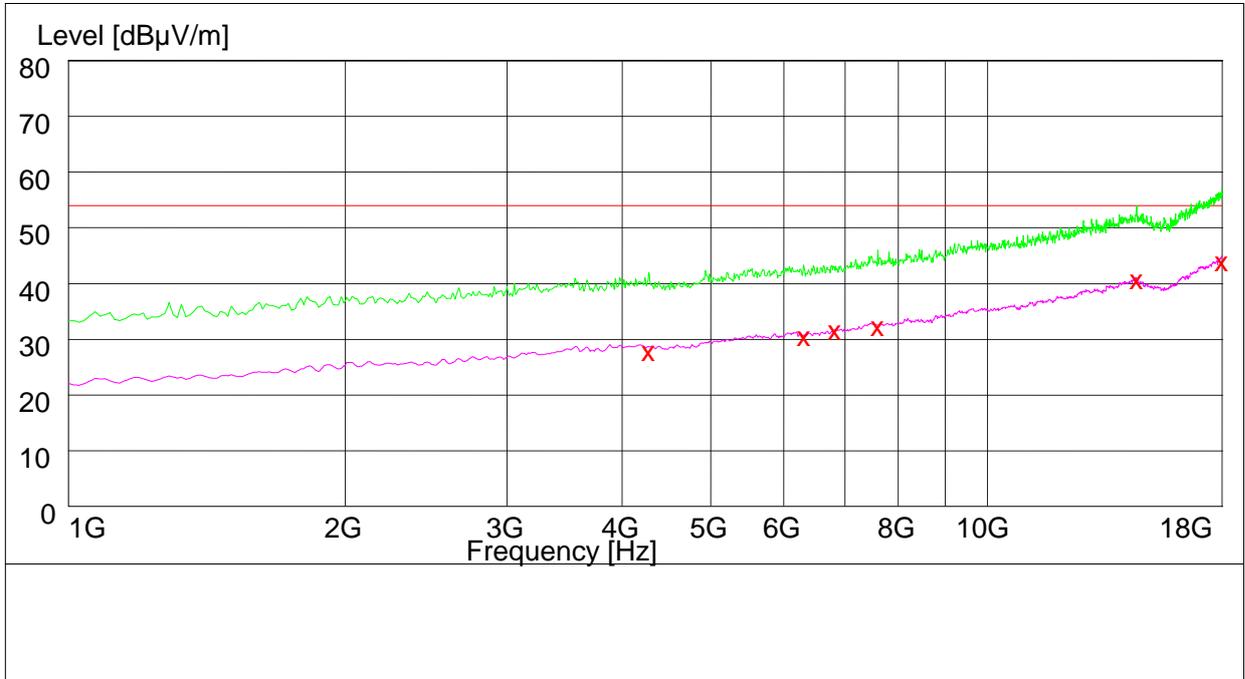
Channel 78 30MHz to 1GHz



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
32.208000	18.60	11.7	40.0	21.4	100.0	328.00	VERTICAL
50.412000	19.30	12.8	40.0	20.7	191.0	0.00	VERTICAL
100.492000	19.80	13.1	43.5	23.7	268.0	55.00	HORIZONTAL
181.500000	17.90	11.0	43.5	25.6	164.0	312.00	HORIZONTAL
441.580000	28.80	18.9	46.0	17.2	100.0	74.00	HORIZONTAL
946.332000	34.90	26.6	46.0	11.1	147.0	359.00	HORIZONTAL



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
4282.000000	27.70	5.8	54.0	26.3	140.0	212.00	HORIZONTAL
6311.500000	30.20	9.3	54.0	23.8	121.0	123.00	VERTICAL
6825.500000	31.10	10.3	54.0	22.9	132.0	125.00	HORIZONTAL
7602.500000	31.90	11.6	54.0	22.1	141.0	74.00	VERTICAL
14533.500000	40.00	22.6	54.0	14.0	120.0	235.00	VERTICAL
17995.500000	43.80	27.7	54.0	10.2	100.0	154.00	HORIZONTAL

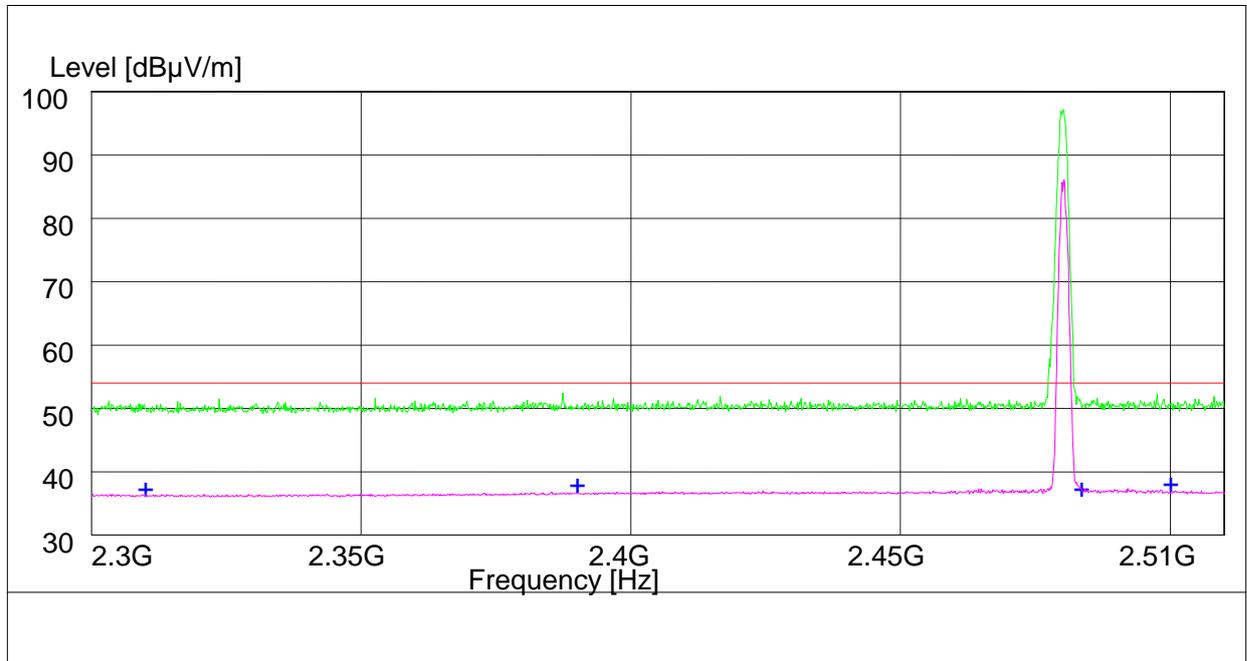


18GHz to 26GHz

Note: No peak found in pre- test.



2.30GHz to 2.51GHz



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
2310.000000	38.90	33.3	54.0	15.1	148.0	52.00	HORIZONTAL
2390.000000	38.60	33.5	54.0	15.4	122.0	121.00	VERTICAL
2483.500000	38.70	33.7	54.0	15.3	154.0	308.00	HORIZONTAL
2500.000000	38.70	33.8	54.0	15.3	172.0	208.00	VERTICAL



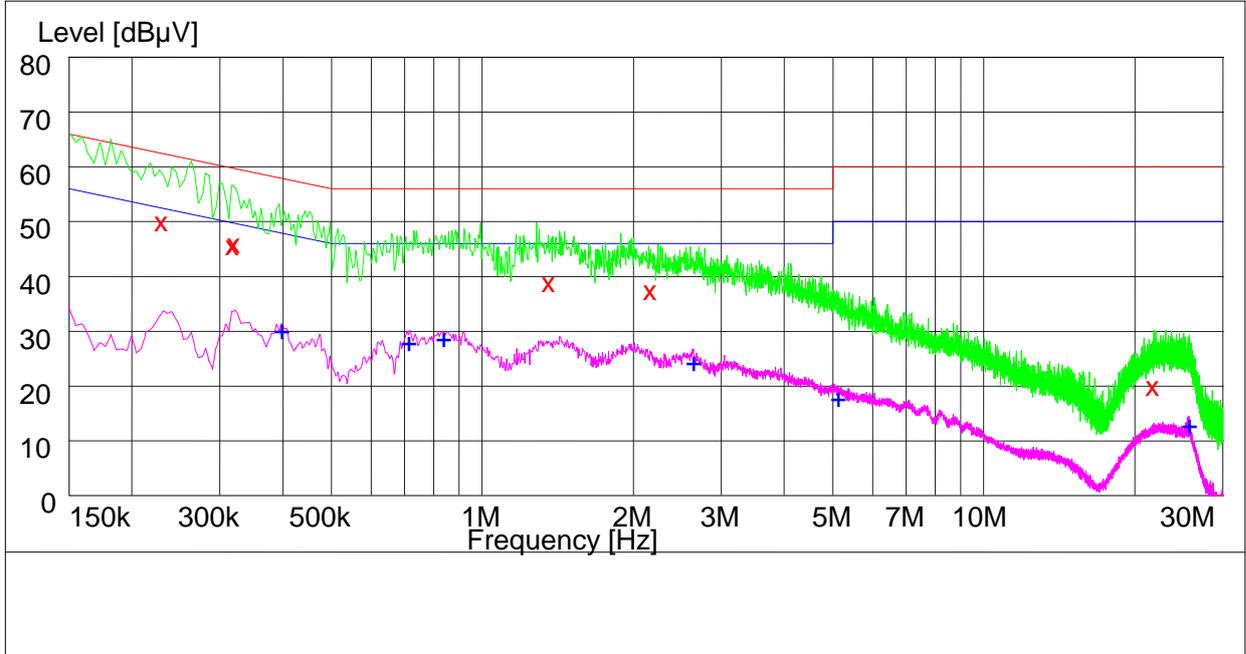
Appendix I

Conducted Emission at Power Port

According to FCC Part 15.207



Channel 40



MEASUREMENT RESULT: QP Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.230000	51.30	10.0	62	10.7	N	FLO
0.318000	47.20	10.0	60	12.8	N	FLO
0.320000	47.30	10.0	60	12.7	N	FLO
1.360000	40.30	10.1	56	15.7	N	FLO
2.170000	38.70	10.1	56	17.3	N	FLO
21.764000	21.40	10.4	60	38.6	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.398000	31.60	10.0	48	16.4	N	FLO
0.714000	29.40	10.1	46	16.6	N	FLO
0.838000	30.10	10.1	46	15.9	N	FLO
2.634000	25.70	10.2	46	20.3	N	FLO
5.134000	19.10	10.2	50	30.9	N	FLO
25.692000	14.30	10.4	50	35.7	L1	FLO