



Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



Channel 0 (2402MHz)





Channel 40 (2442MHz)

Agilent
R T

Ch Freq 2.442 GHz **Trig** Free

Occupied Bandwidth

Center Freq
2.44200000 GHz

Start Freq
2.44100000 GHz

Stop Freq
2.44300000 GHz

CF Step
200.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Ref 20 dBm #Atten 30 dB

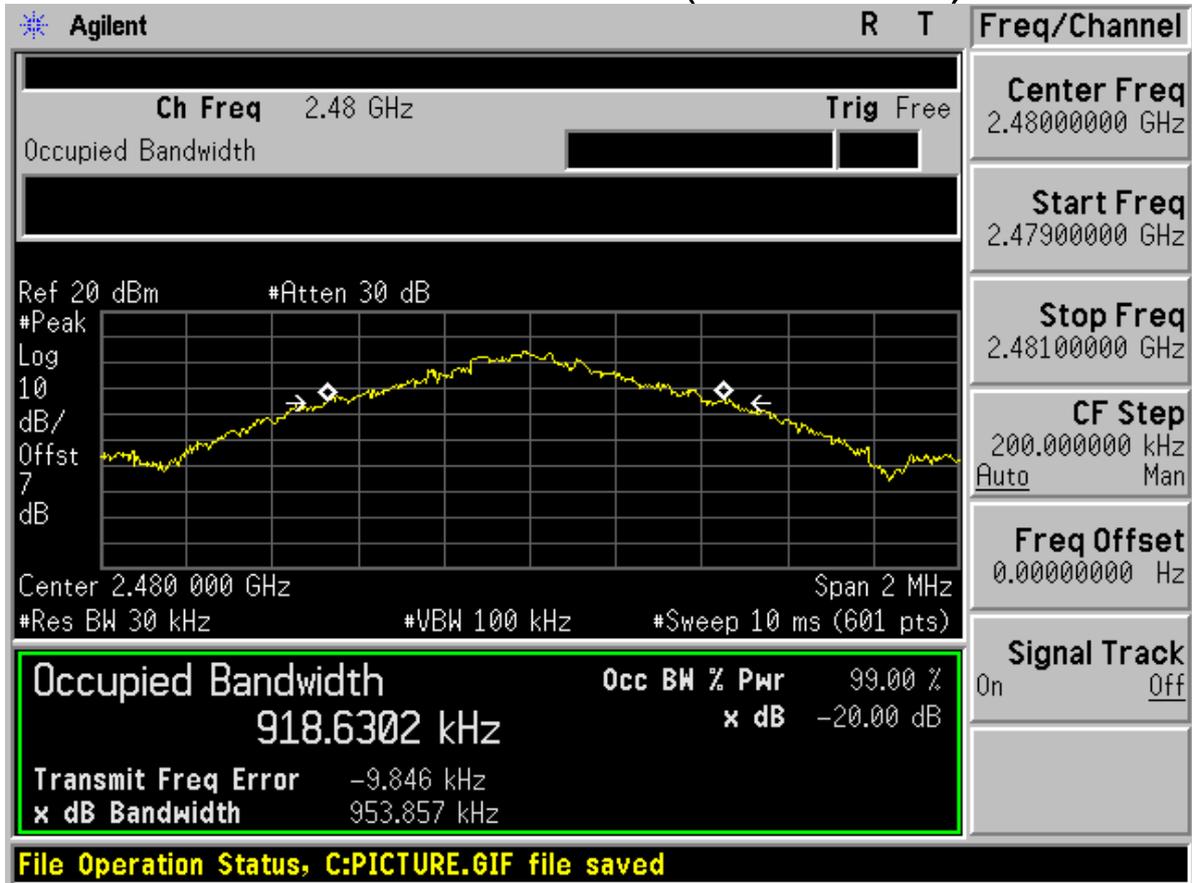
Center 2.442 000 GHz Span 2 MHz
 #Res BW 30 kHz #VBW 100 kHz #Sweep 10 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
922.2576 kHz	x dB -20.00 dB
Transmit Freq Error	-3.409 kHz
x dB Bandwidth	995.183 kHz

File Operation Status, C:PICTURE.GIF file saved



Channel 78 (2480MHz)





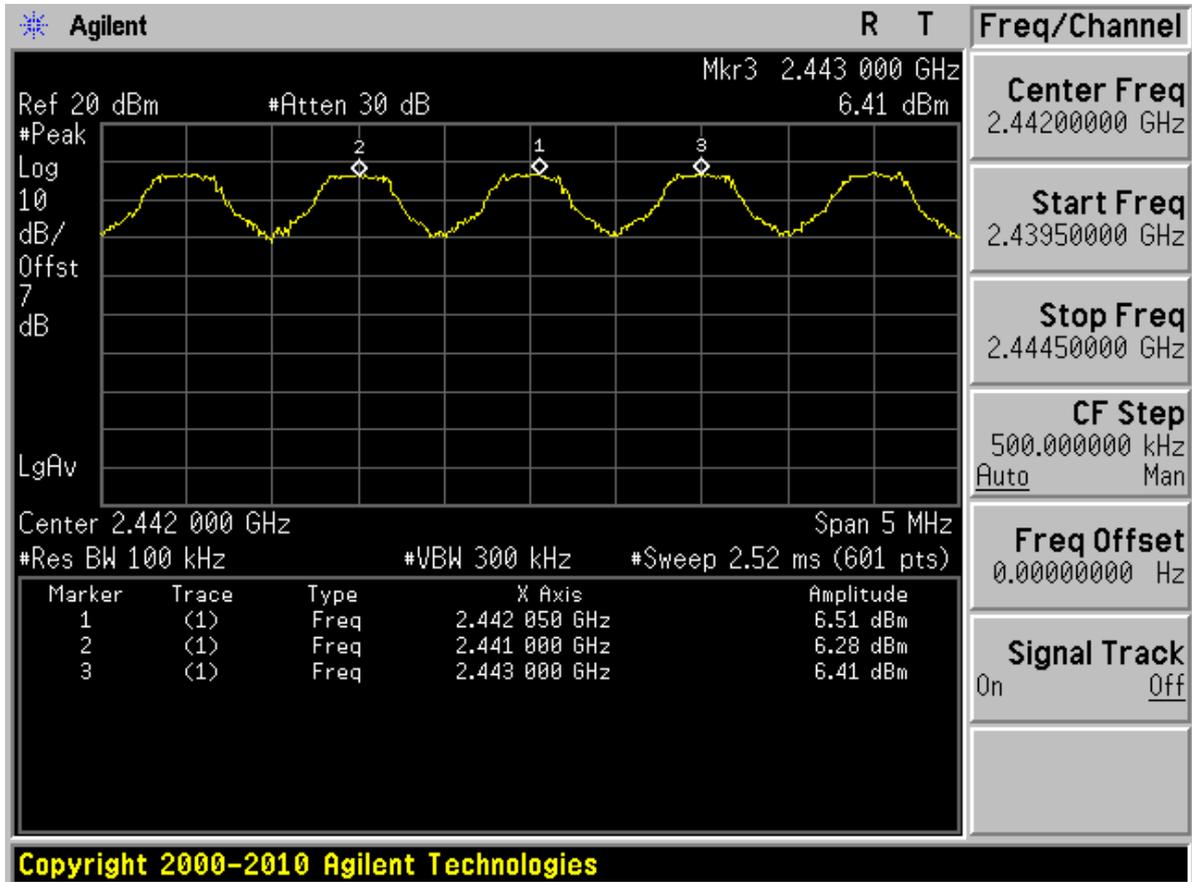
Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Centred at Channel 40





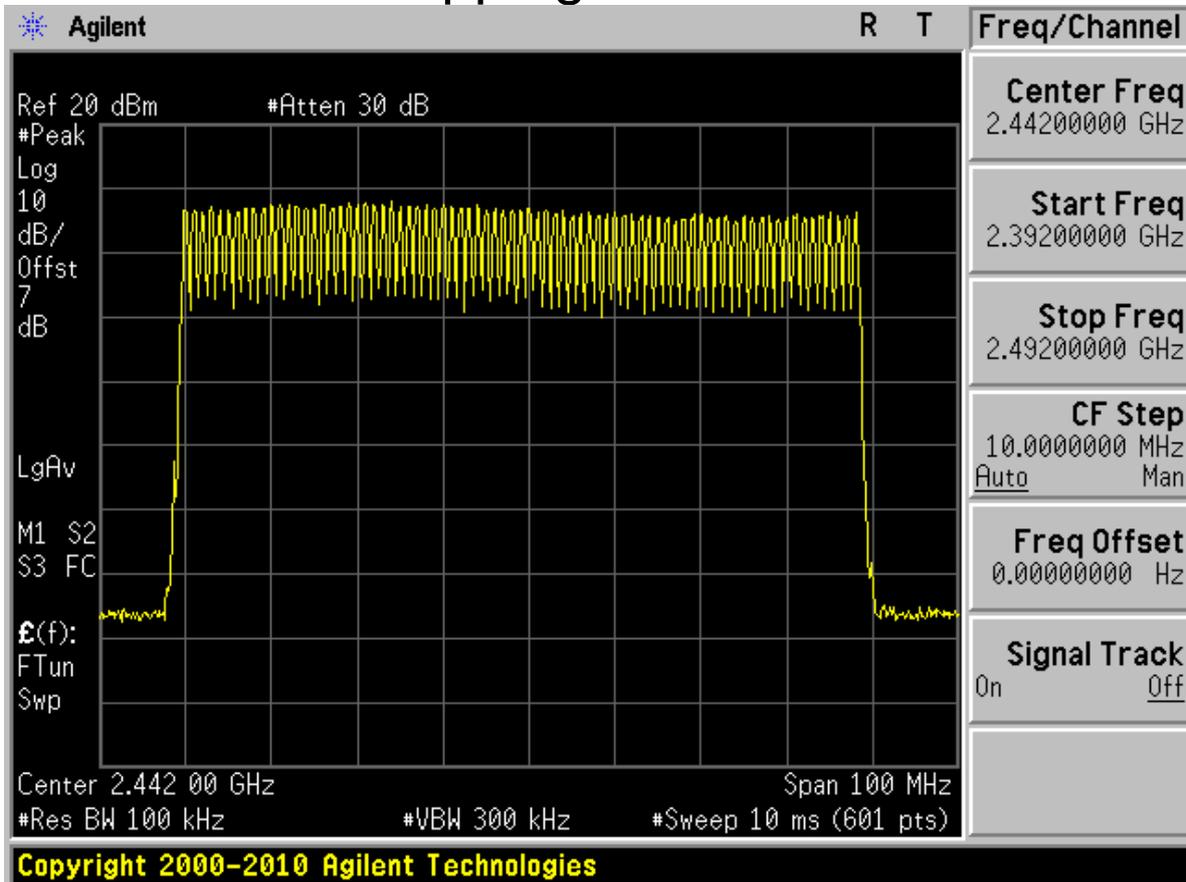
Appendix C

Number of hopping channel

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



Total hopping channels = 79





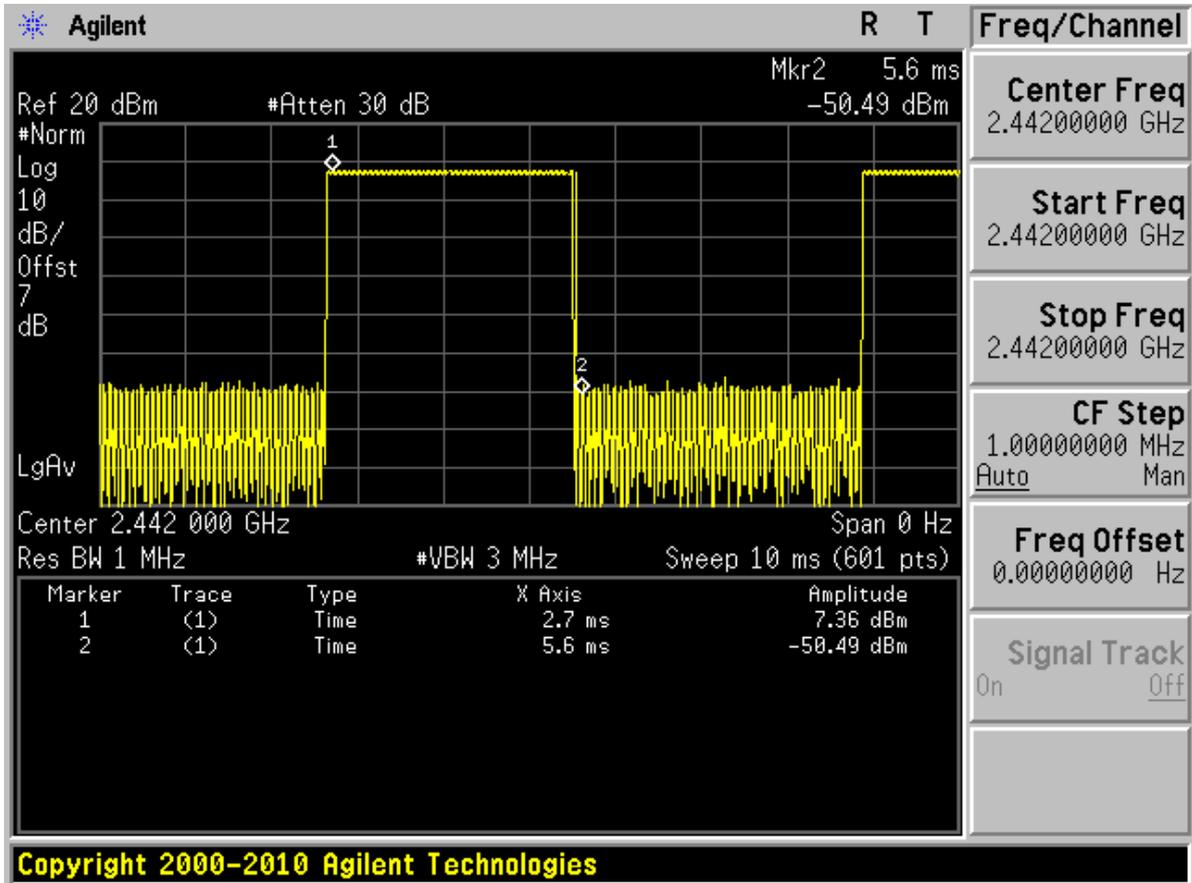
Appendix D

Time of occupancy

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

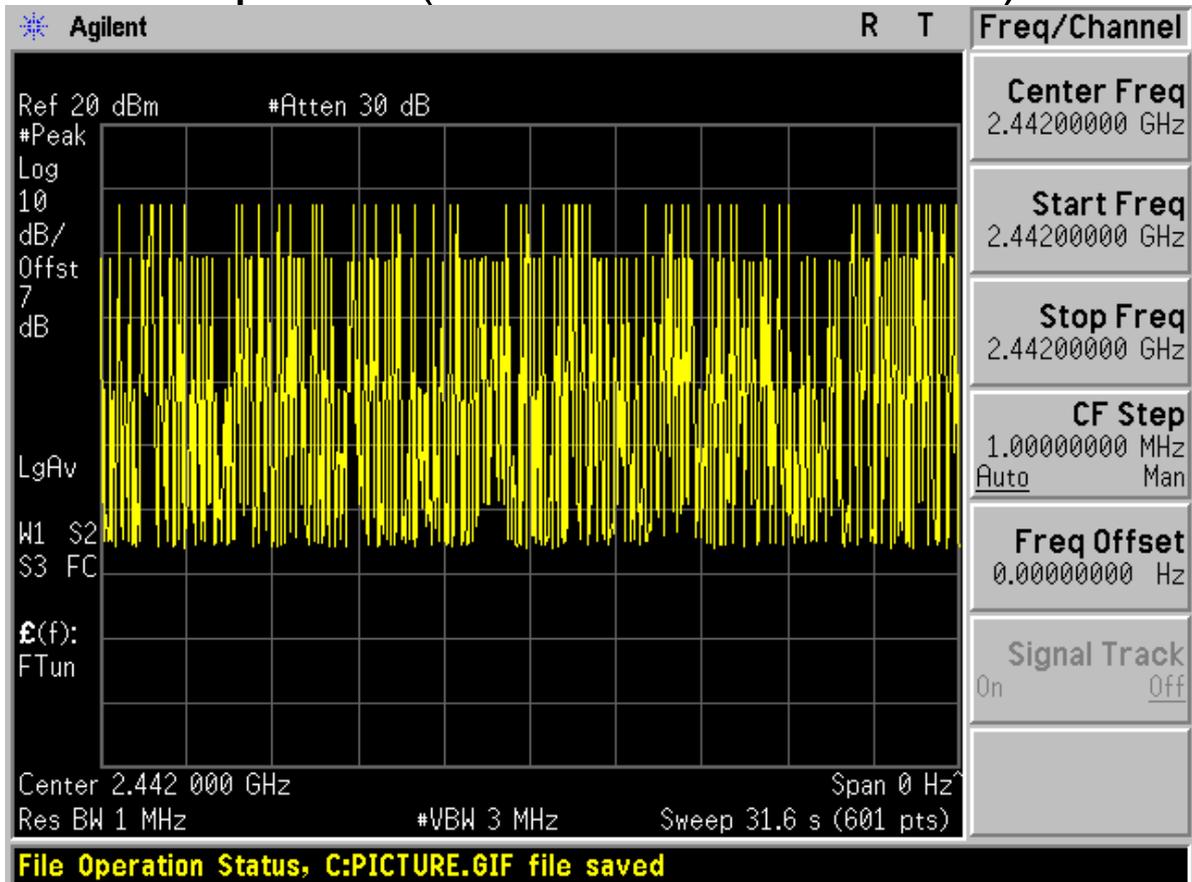


A burst (One time slot)





A period (Less than 106.7 burst)





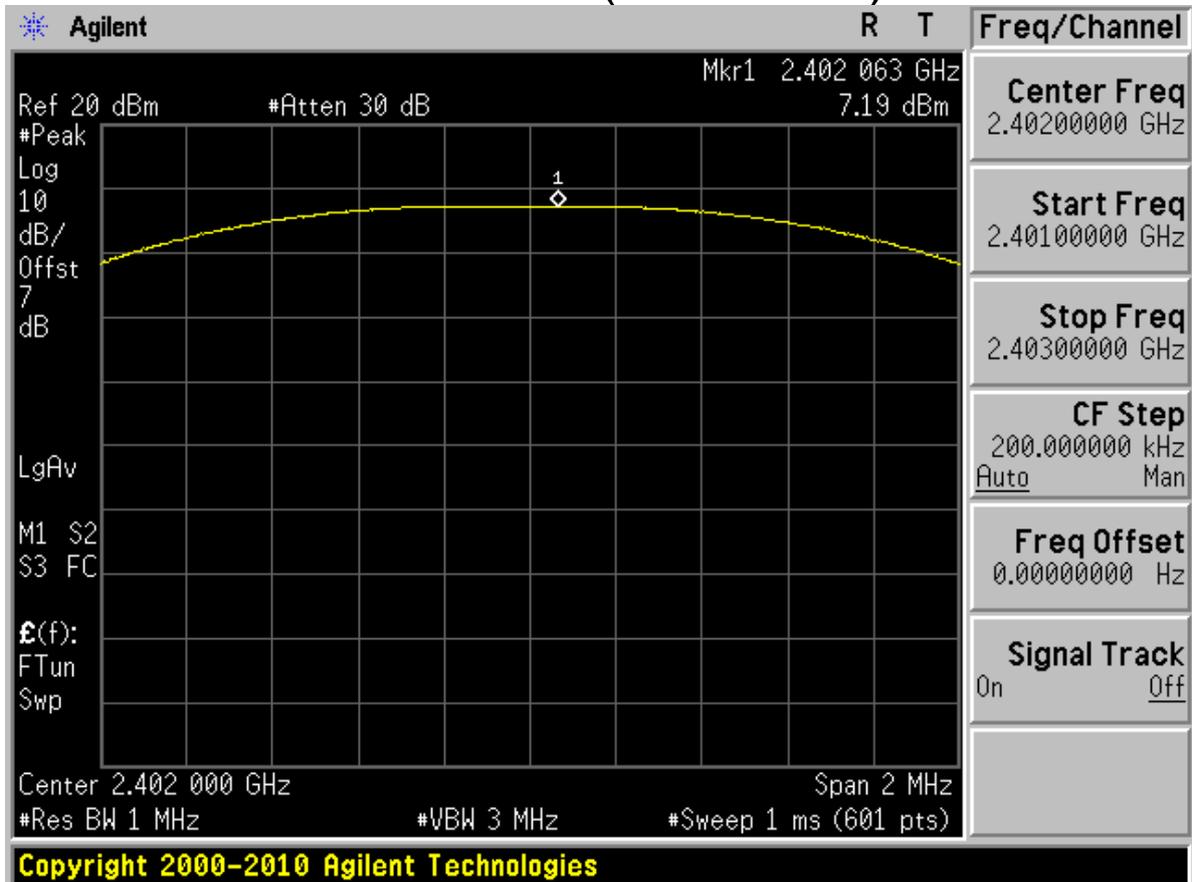
Appendix E

Peak output power

According to FCC Part 15.247 (b) (1)

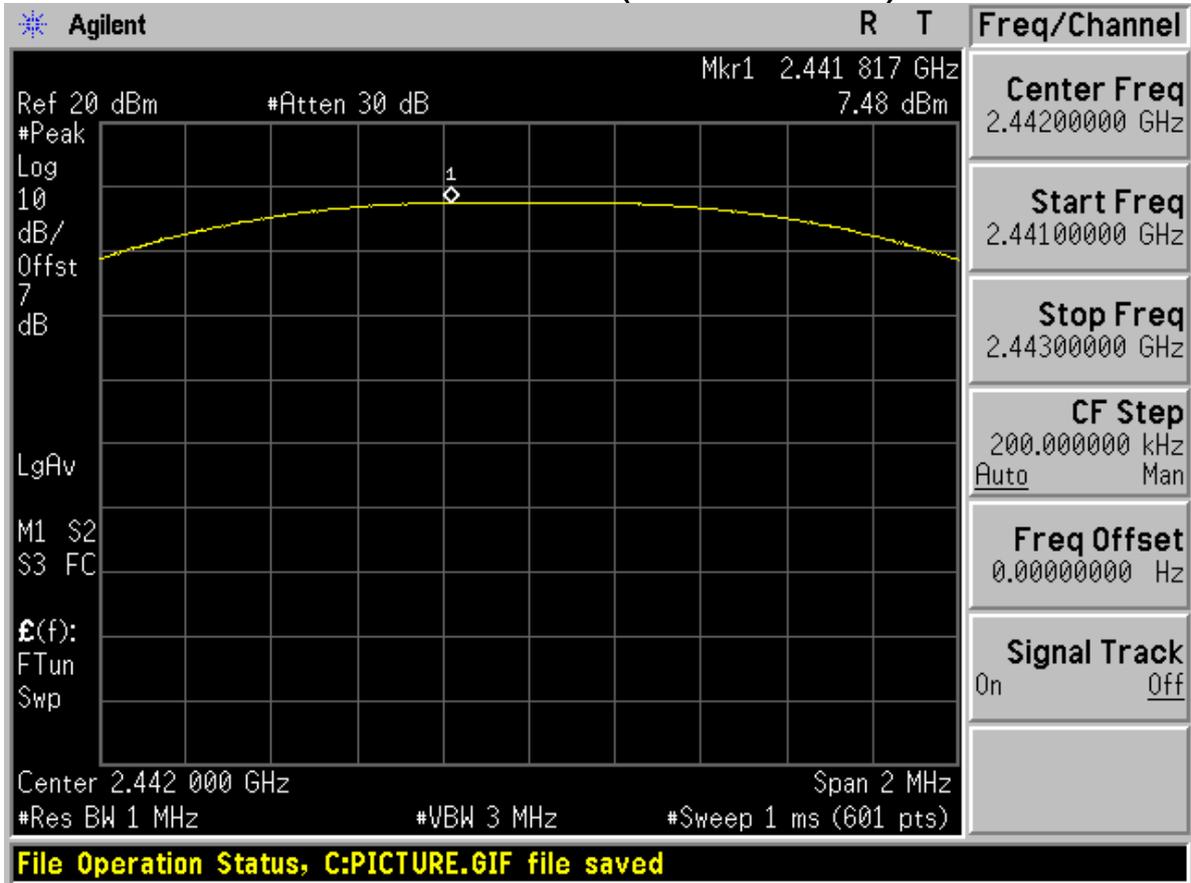


Channel 0 (2402MHz)



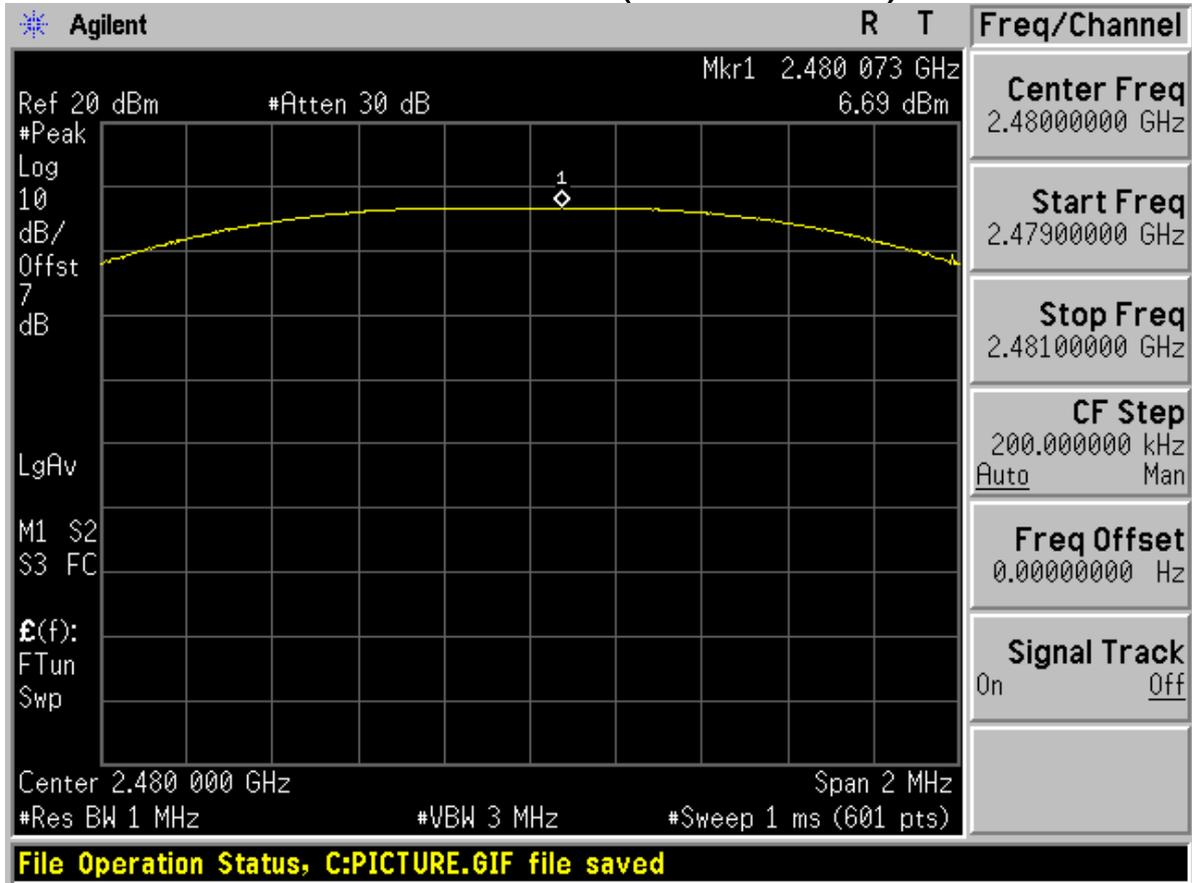


Channel 40 (2442MHz)





Channel 78 (2480MHz)





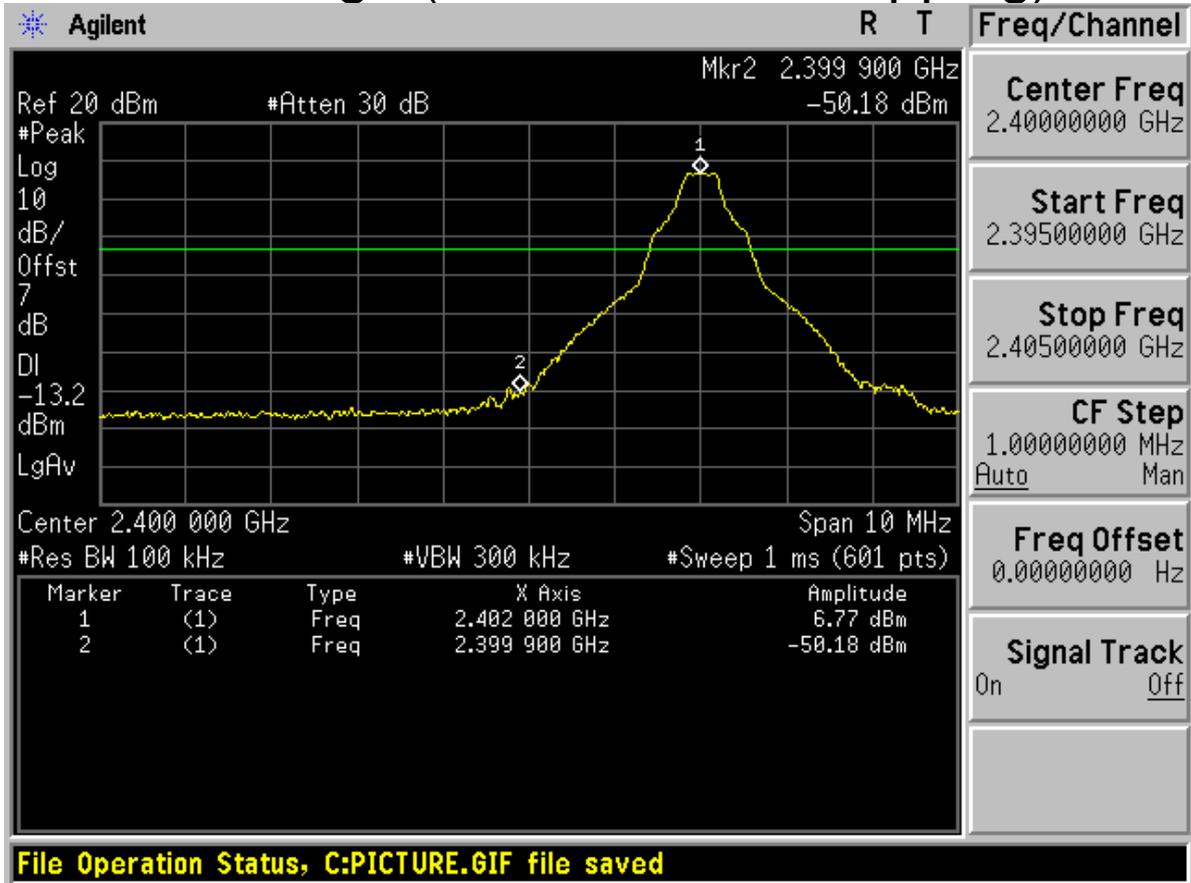
Appendix F

Band edge spurious emission

According to FCC Part 15.247 (d)

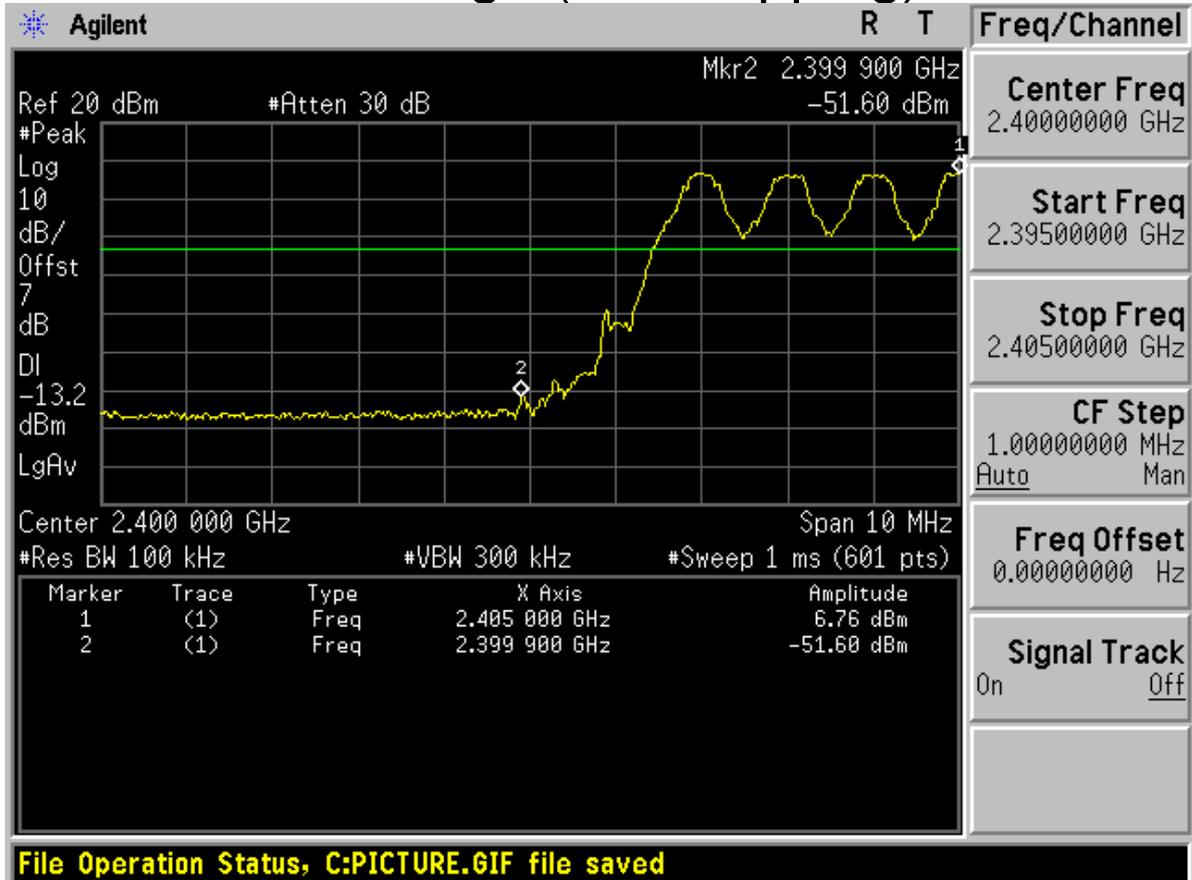


Low edge (Channel 0, no hopping)



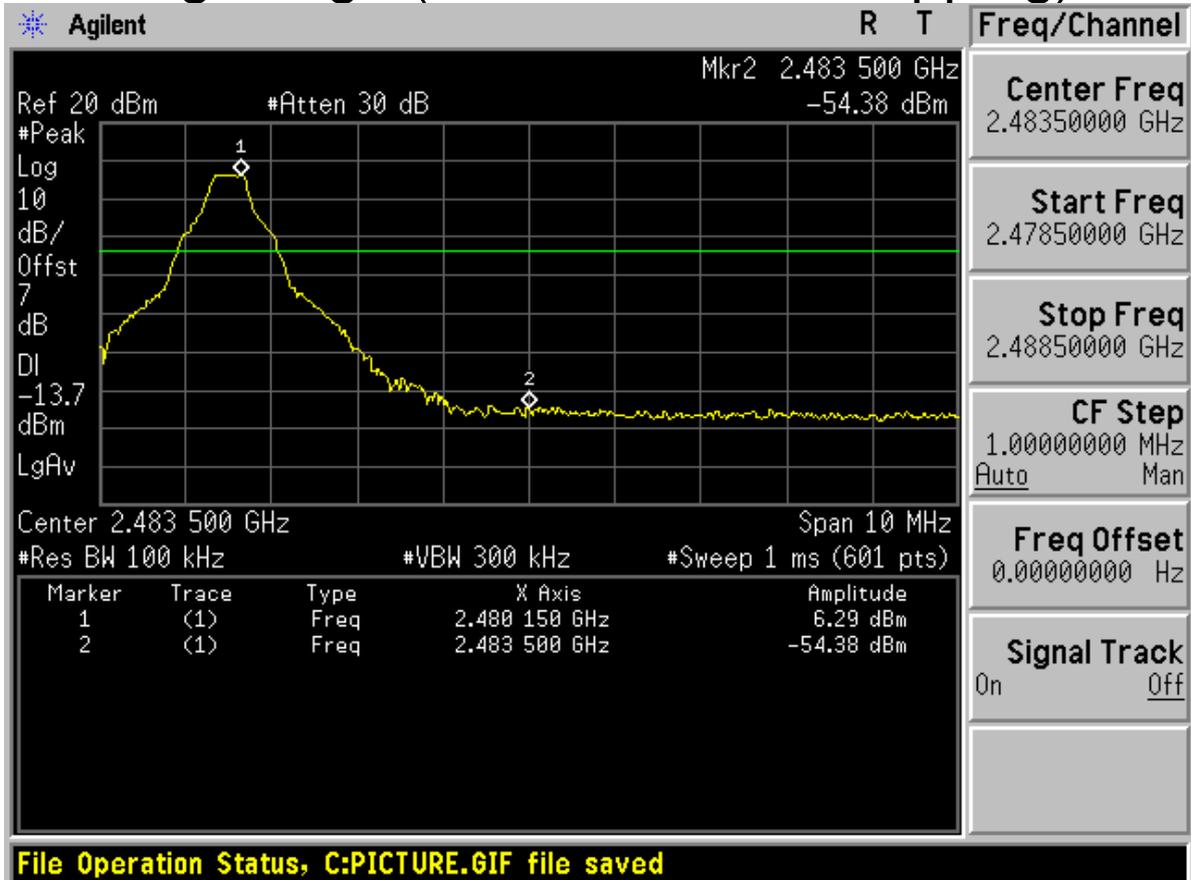


Low edge (with hopping)



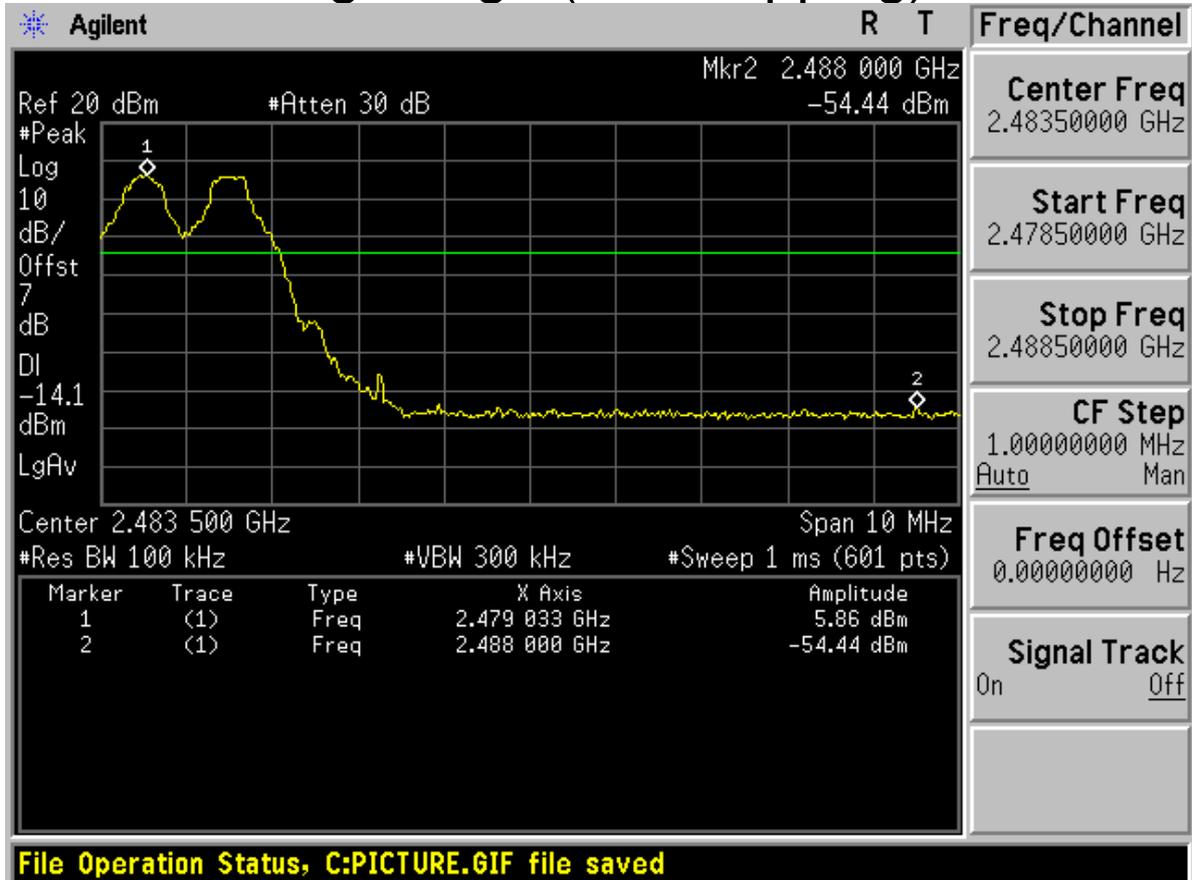


High edge (Channel 78, no hopping)





High edge (with hopping)





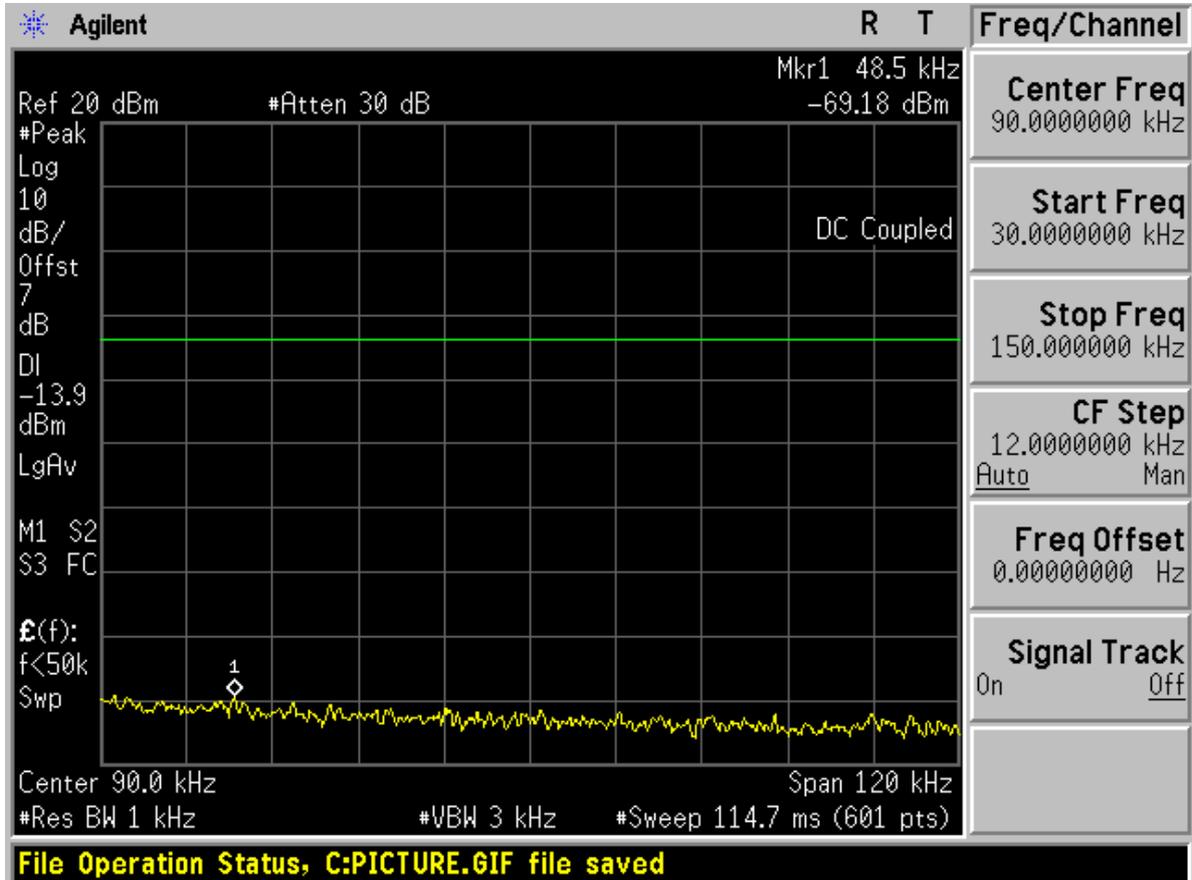
Appendix G

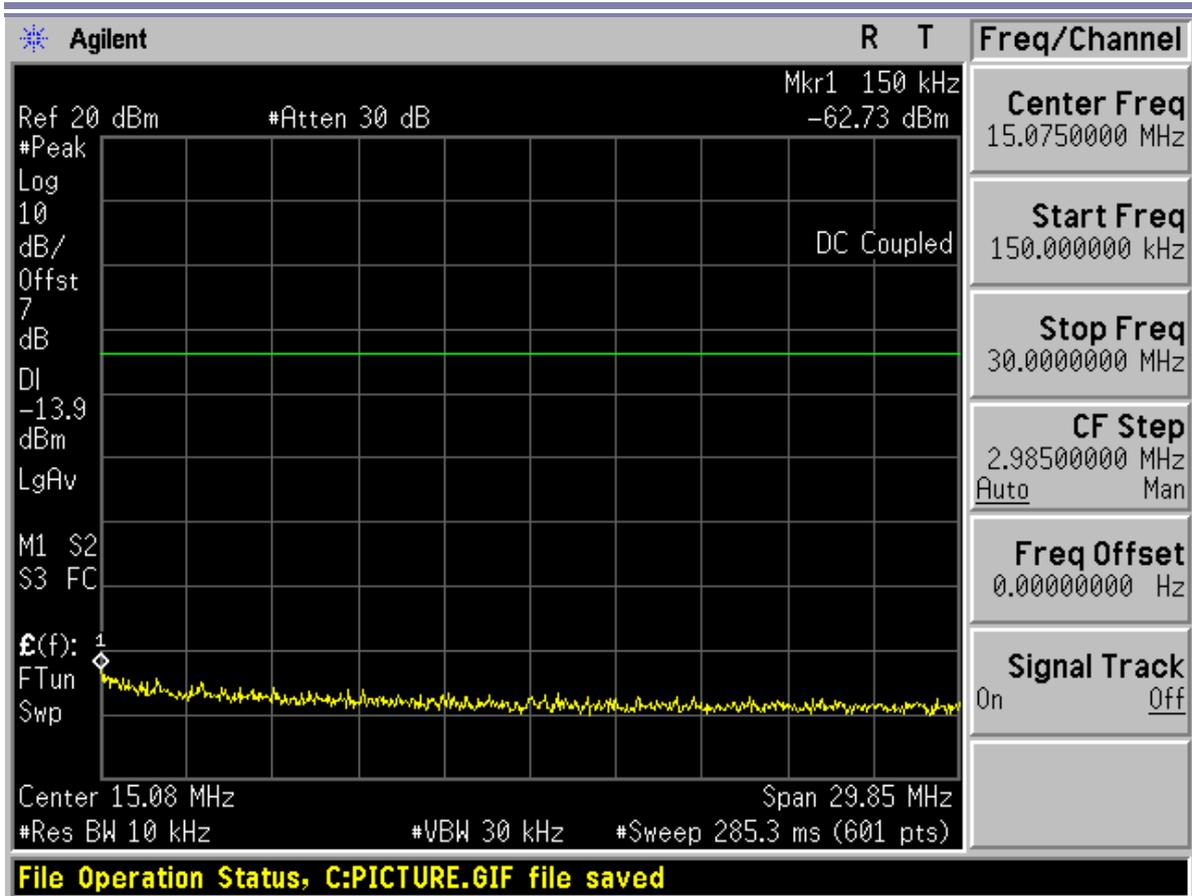
Conducted RF spurious

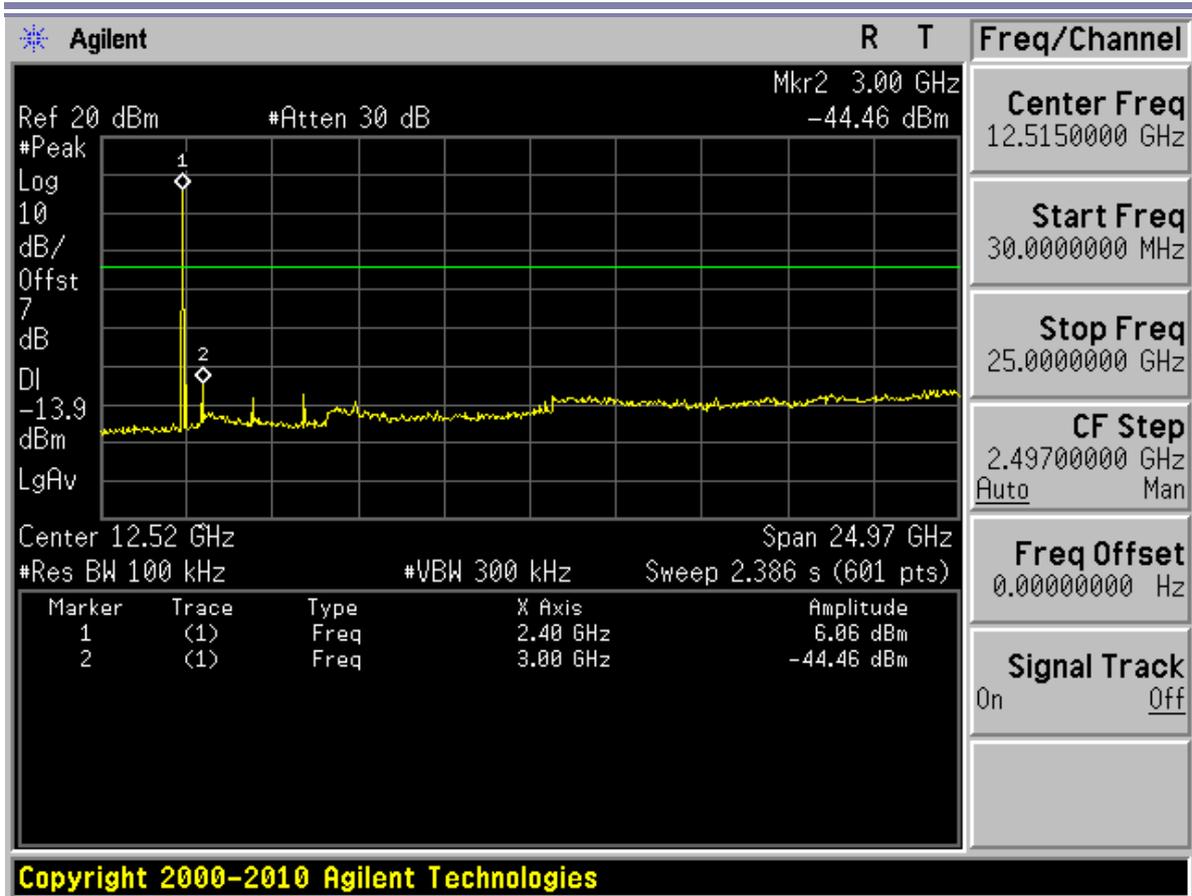
According to FCC Part 15.247 (d)



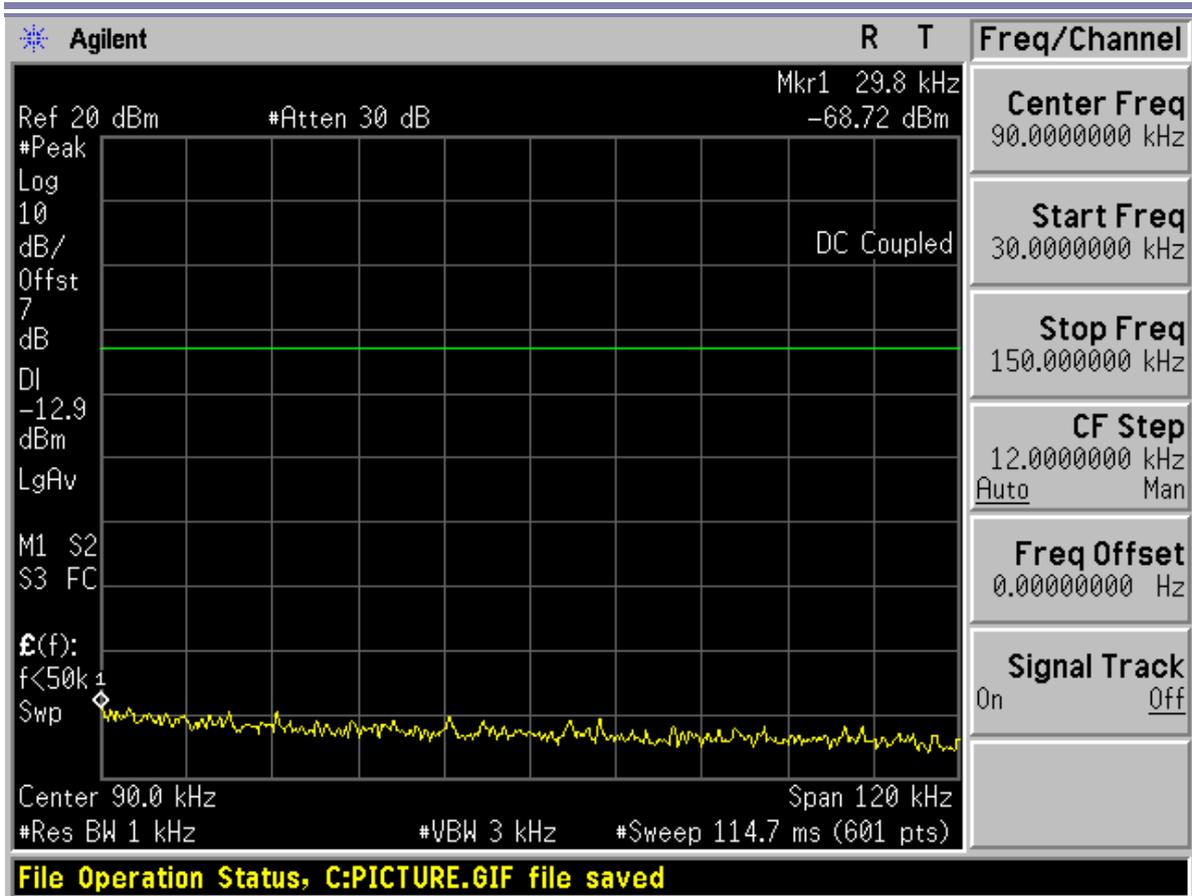
Channel 0

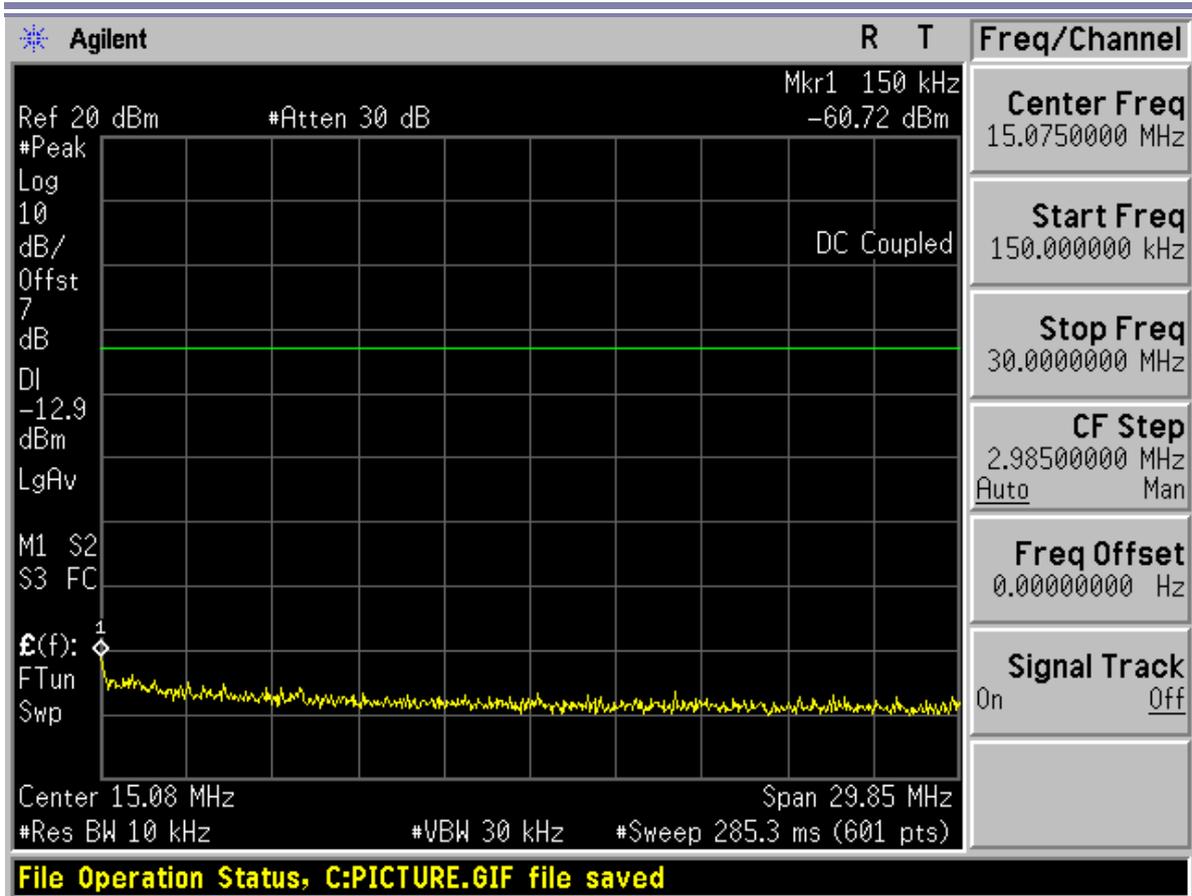


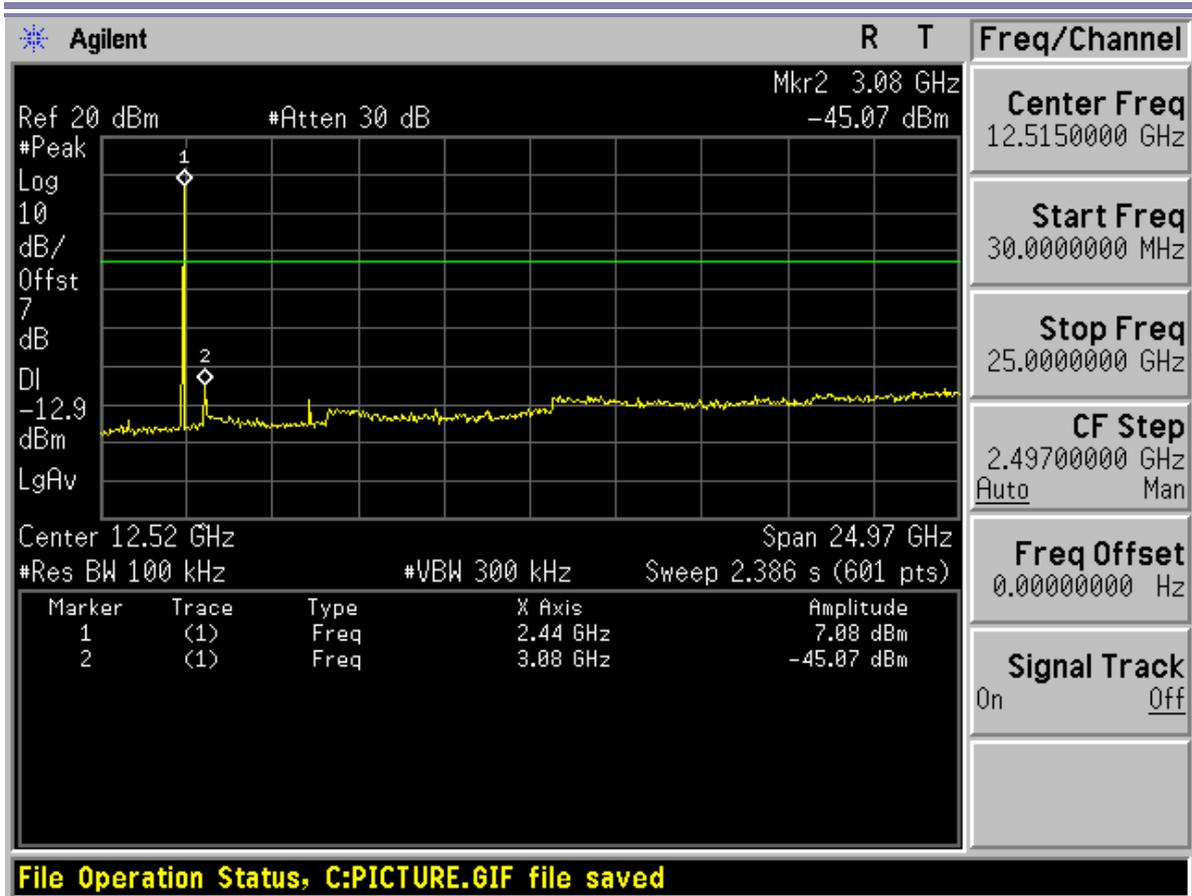




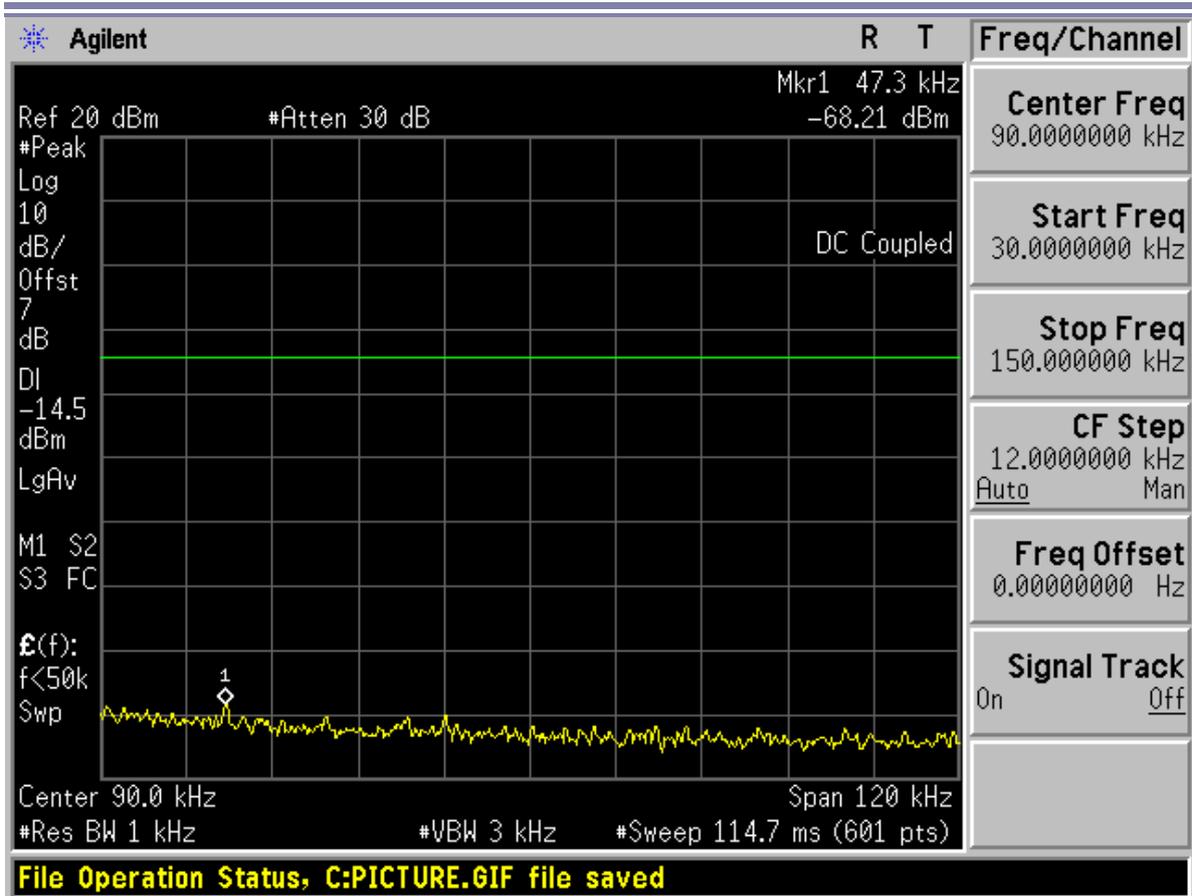
Channel 40

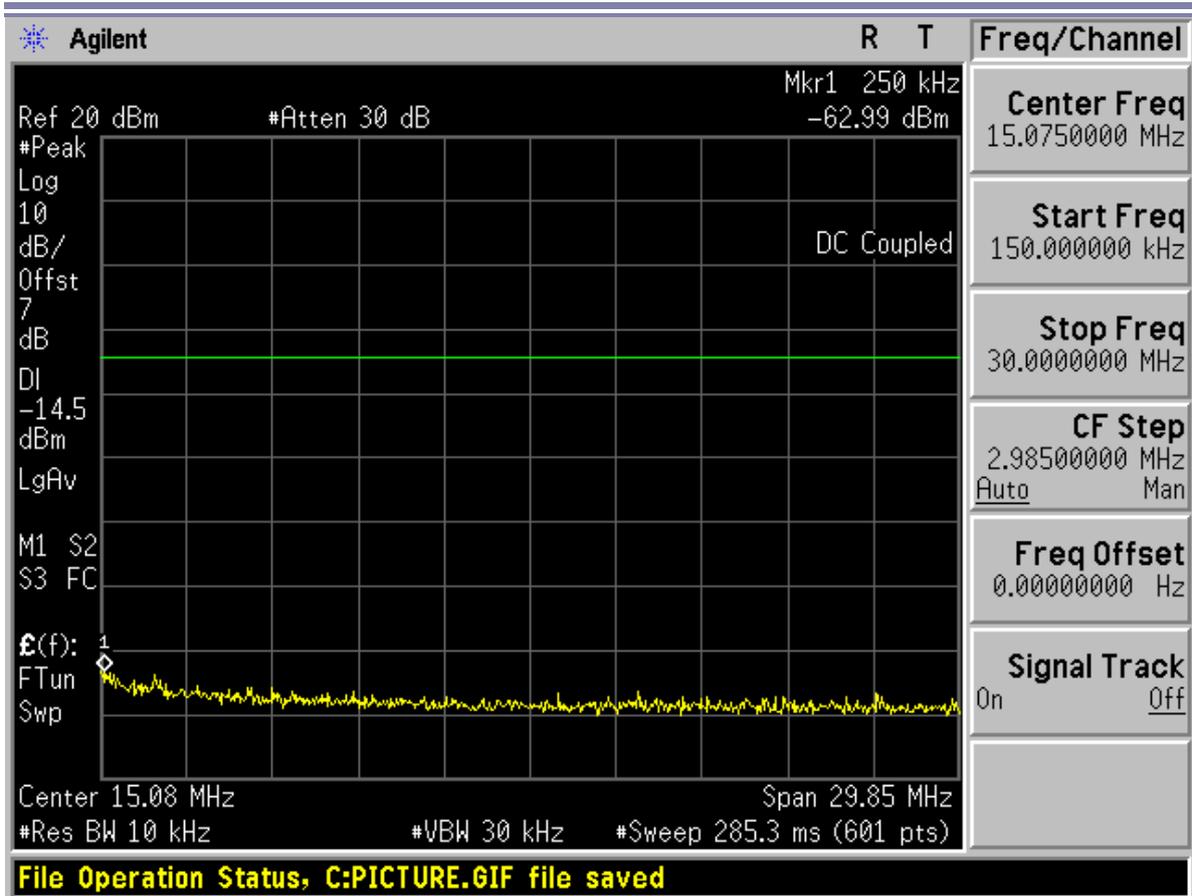


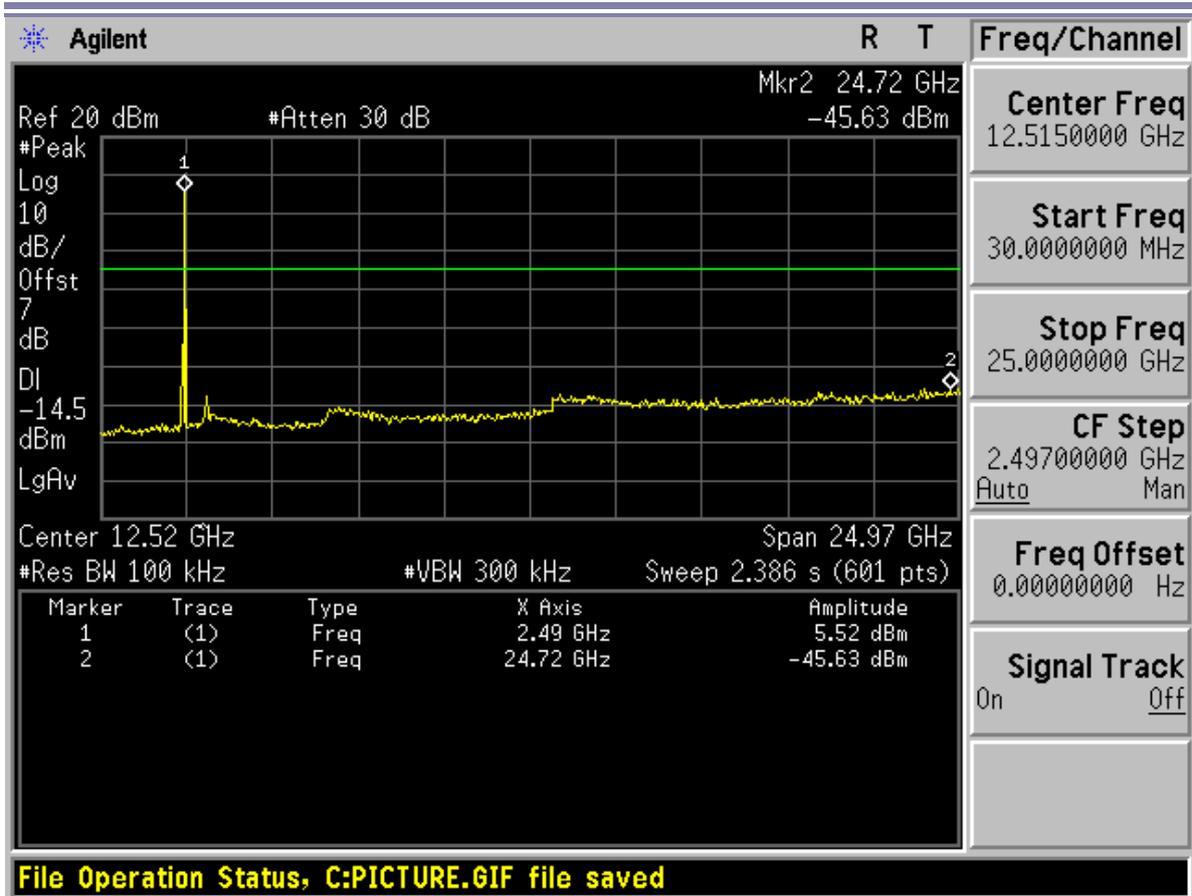




Channel 78









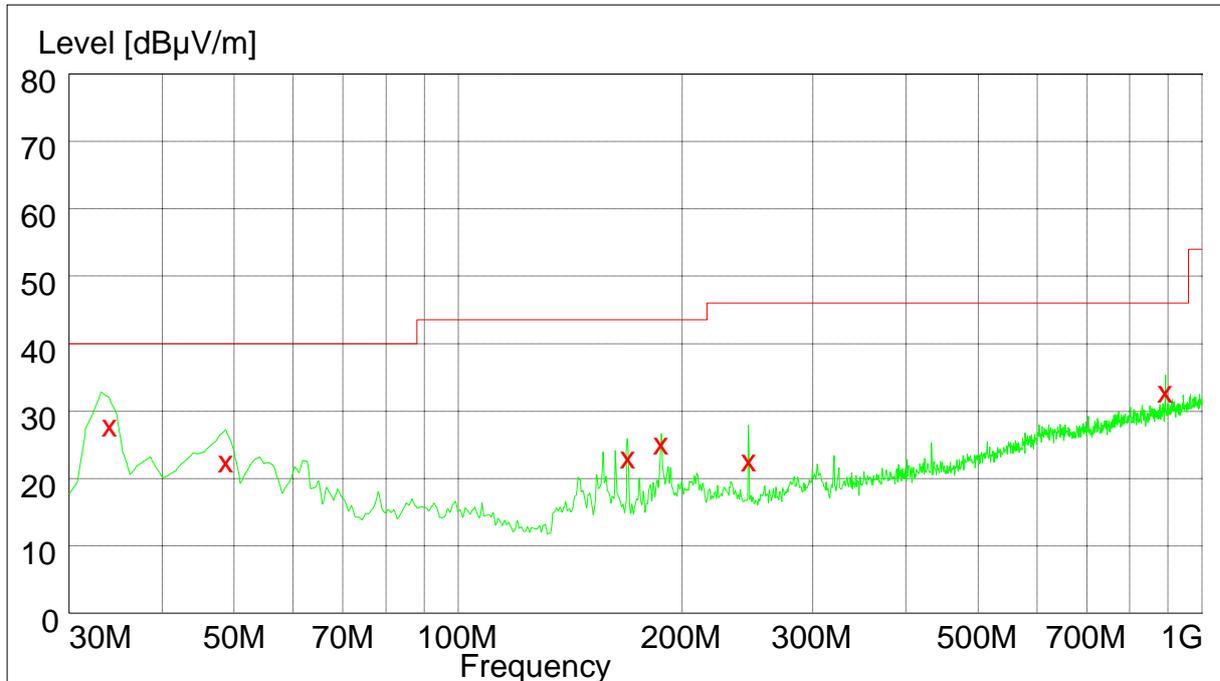
Appendix H

Radiated spurious emission

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



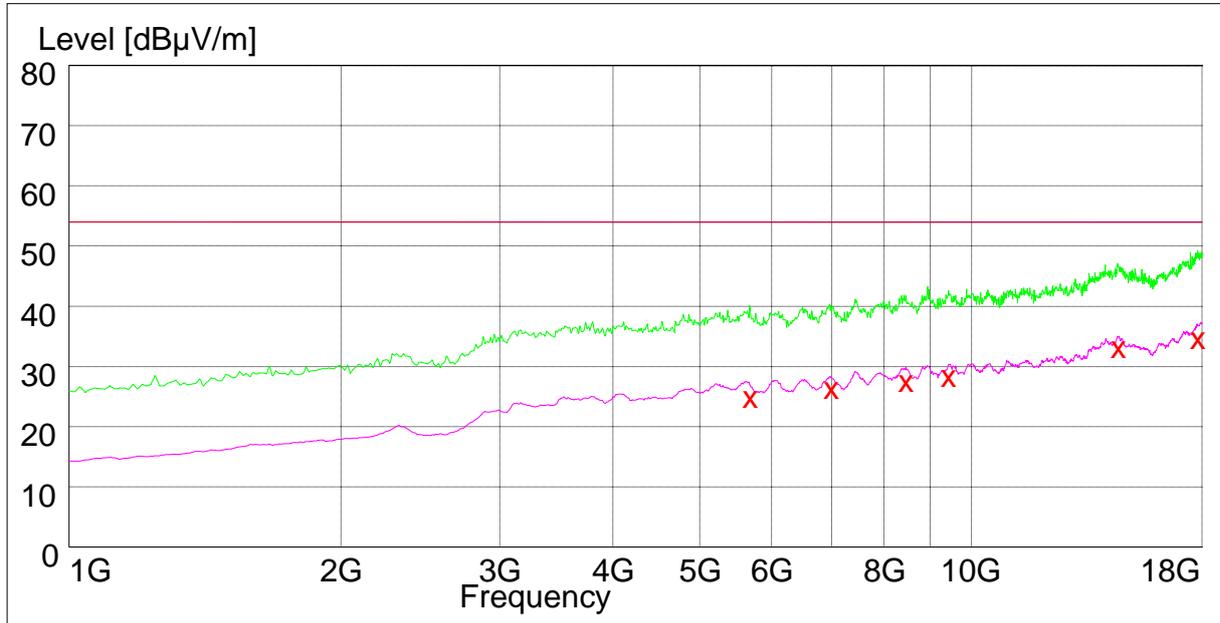
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.944000	29.00	11.7	40.0	11.0	102.0	359.00	VERTICAL
48.624000	23.70	12.9	40.0	16.3	108.0	202.00	VERTICAL
168.964000	24.20	10.0	43.5	19.3	100.0	336.00	VERTICAL
187.408000	26.30	11.7	43.5	17.2	102.0	344.00	VERTICAL
245.788000	23.80	14.1	46.0	22.2	158.0	284.00	HORIZONTAL
892.012000	34.00	26.1	46.0	12.0	157.0	104.00	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
5681.400000	26.40	-2.1	54.0	27.6	163.0	116.00	VERTICAL
6984.500000	27.90	0.2	54.0	26.1	101.0	331.00	VERTICAL
8456.800000	29.00	3.0	54.0	25.0	193.0	288.00	HORIZONTAL
9424.500000	29.80	4.8	54.0	24.2	100.0	56.00	HORIZONTAL
14525.000000	34.60	12.3	54.0	19.4	100.0	22.00	HORIZONTAL
17800.500000	36.10	16.0	54.0	17.9	115.0	237.00	VERTICAL

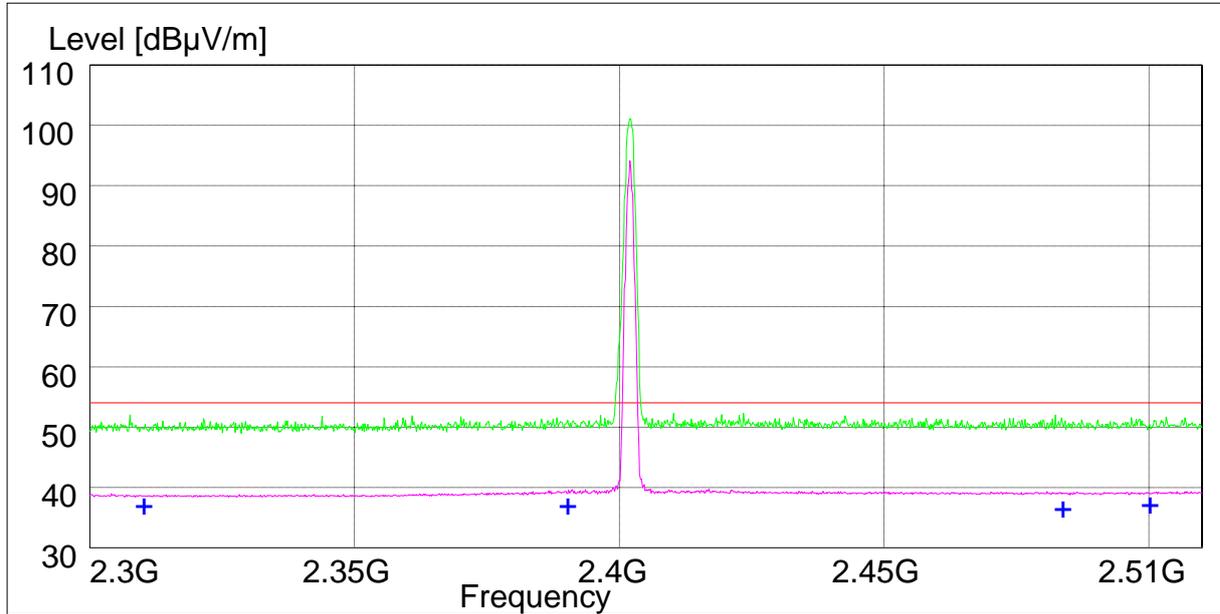


18GHz to 26GHz

Note: No peak found in pre- test.



2.30GHz to 2.51GHz

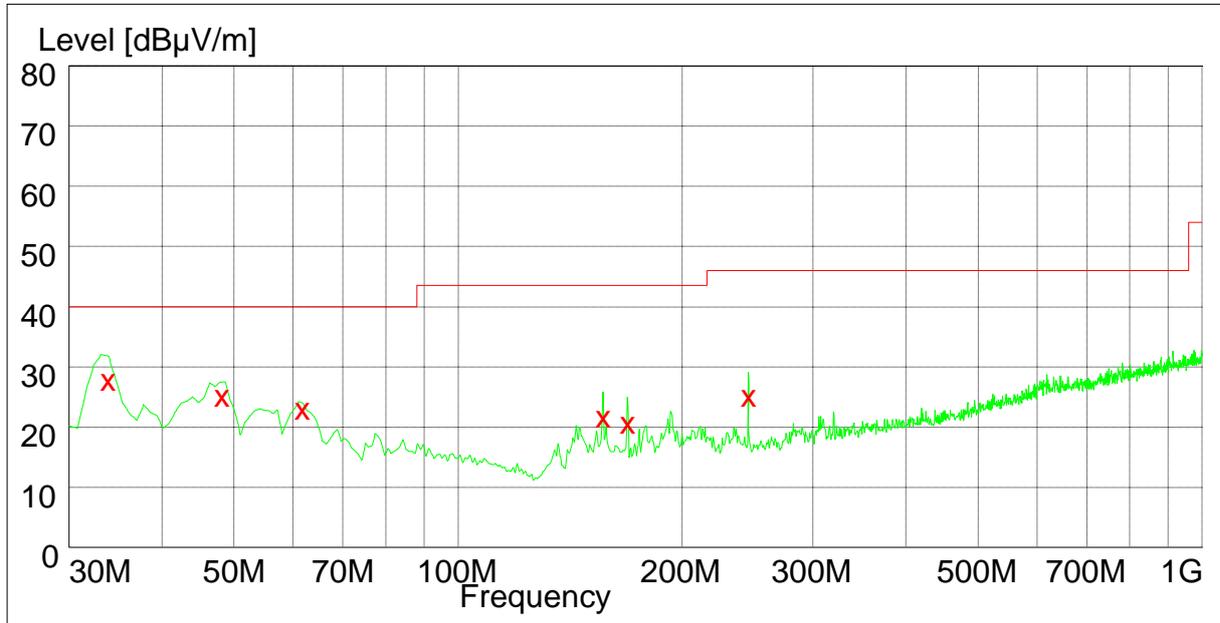


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.50	33.3	54.0	15.5	122.0	210.00	HORIZONTAL
2390.000000	38.60	33.5	54.0	15.4	102.0	337.00	HORIZONTAL
2483.500000	38.20	33.7	54.0	15.8	147.0	307.00	HORIZONTAL
2500.000000	38.70	33.5	54.0	15.3	122.0	27.00	HORIZONTAL



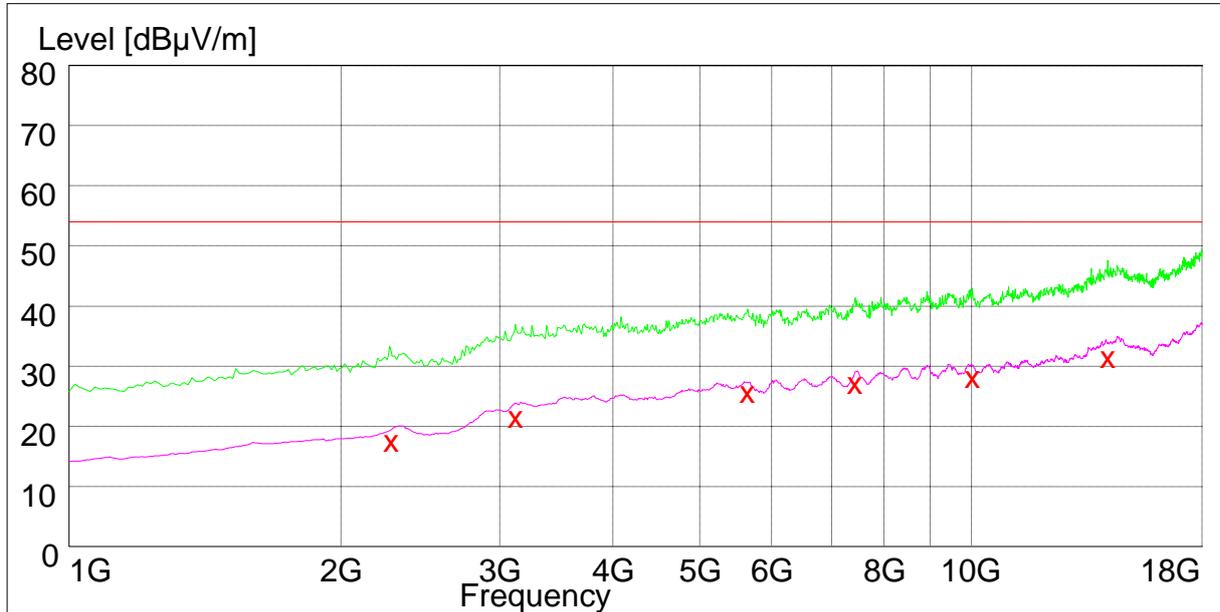
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.824000	29.30	11.7	40.0	10.7	101.0	65.00	VERTICAL
48.532000	26.30	13.1	40.0	13.7	105.0	168.00	VERTICAL
62.245000	24.50	11.6	40.0	15.5	100.0	220.00	VERTICAL
156.668000	23.20	9.4	43.5	20.3	110.0	255.00	VERTICAL
168.964000	22.10	10.0	43.5	21.4	100.0	275.00	VERTICAL
245.728000	26.60	14.1	46.0	19.4	100.0	117.00	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
2272.300000	19.00	-11.8	54.0	35.0	156.0	257.00	HORIZONTAL
3124.100000	23.00	-8.6	54.0	31.0	163.0	11.00	HORIZONTAL
5643.700000	27.10	-2.2	54.0	26.9	169.0	359.00	VERTICAL
7426.800000	28.60	1.2	54.0	25.4	195.0	264.00	VERTICAL
10012.300000	29.70	5.1	54.0	24.3	128.0	360.00	VERTICAL
14147.700000	32.90	11.3	54.0	21.1	177.0	0.00	HORIZONTAL

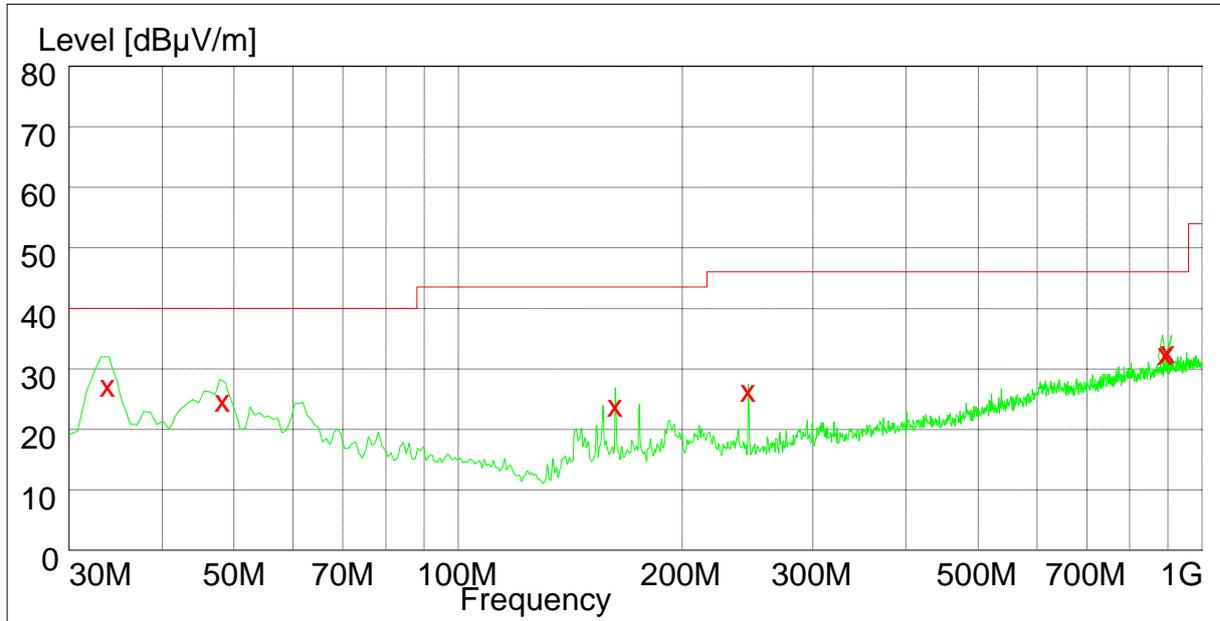


18GHz to 26GHz

Note: No peak found in pre- test.



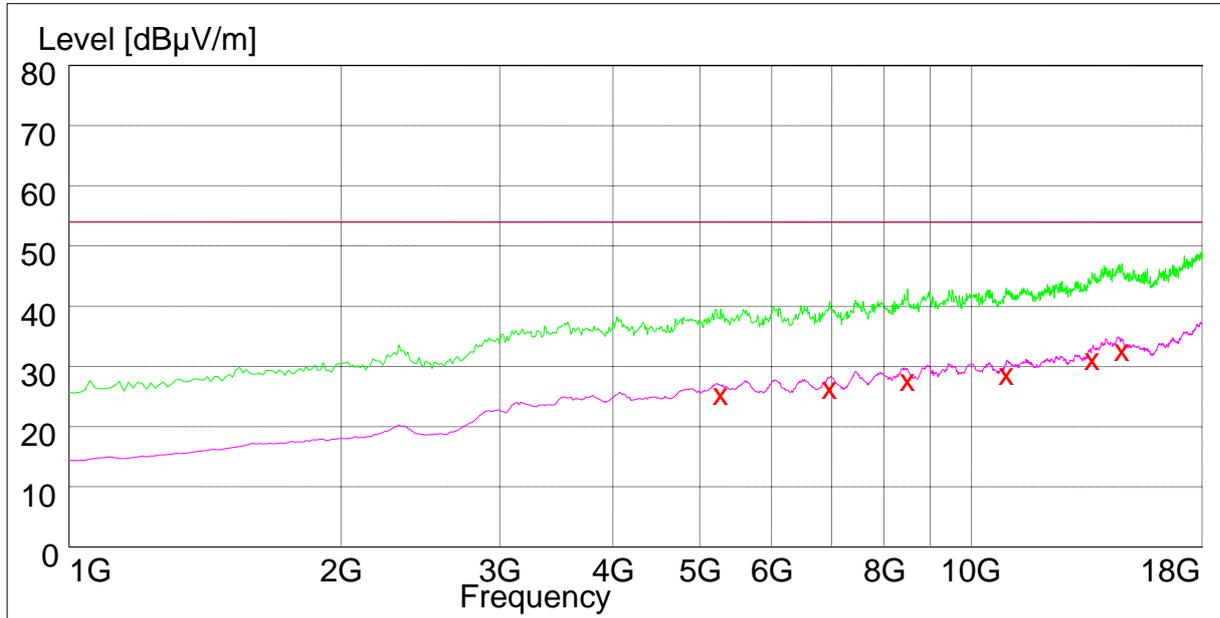
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.760000	28.60	11.7	40.0	11.4	101.0	114.00	VERTICAL
48.520000	28.50	12.9	40.0	11.5	108.0	257.00	VERTICAL
168.280000	25.80	9.8	43.0	17.2	116.0	124.00	VERTICAL
256.721000	27.8	14.2	46.0	18.2	152.0	286.00	VERTICAL
892.012000	33.90	26.1	46.0	12.1	139.0	339.00	VERTICAL
897.444000	34.10	26.1	46.0	11.9	100.0	182.00	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
5268.400000	26.90	-2.8	54.0	27.1	200.0	318.00	HORIZONTAL
6952.800000	27.90	0.1	54.0	26.1	109.0	355.00	HORIZONTAL
8486.600000	29.20	3.0	54.0	24.8	200.0	301.00	HORIZONTAL
10921.000000	30.20	6.5	54.0	23.8	100.0	72.00	VERTICAL
13591.100000	32.70	10.2	54.0	21.3	127.0	307.00	VERTICAL
14675.100000	34.10	11.8	54.0	19.9	156.0	275.00	VERTICAL

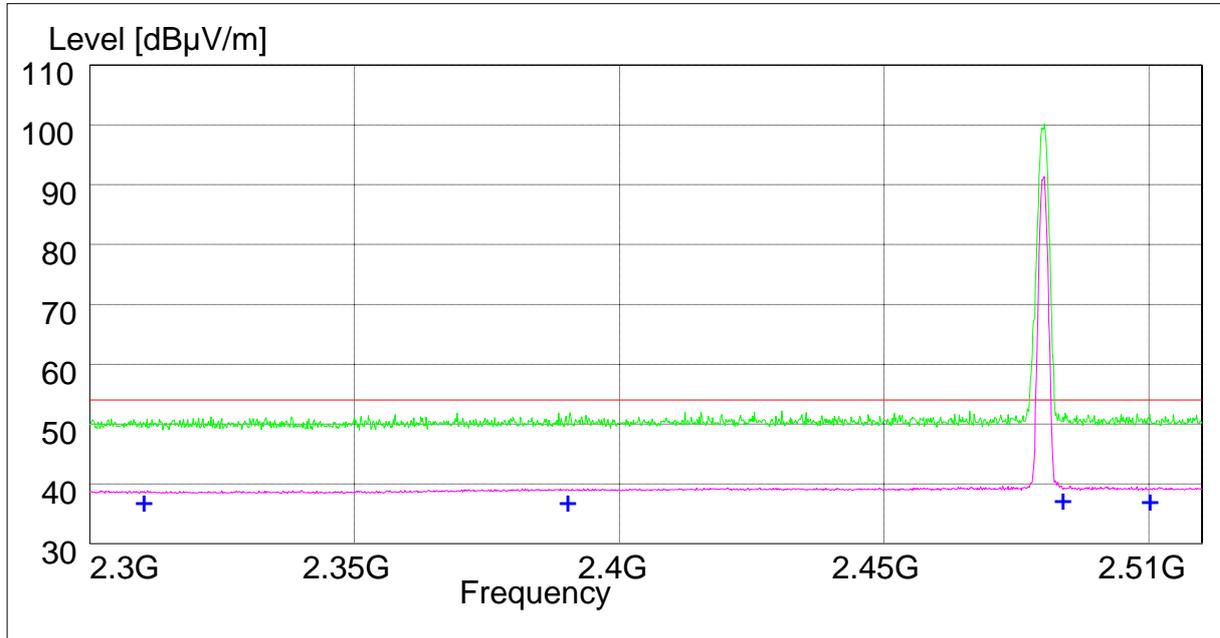


18GHz to 26GHz

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	38.50	33.3	54.0	15.3	142.0	358.00	VERTICAL
2390.000000	38.50	33.5	54.0	15.5	182.0	318.00	VERTICAL
2483.500000	38.80	33.7	54.0	15.2	122.0	108.00	VERTICAL
2500.000000	38.60	33.8	54.0	15.4	182.0	208.00	VERTICAL



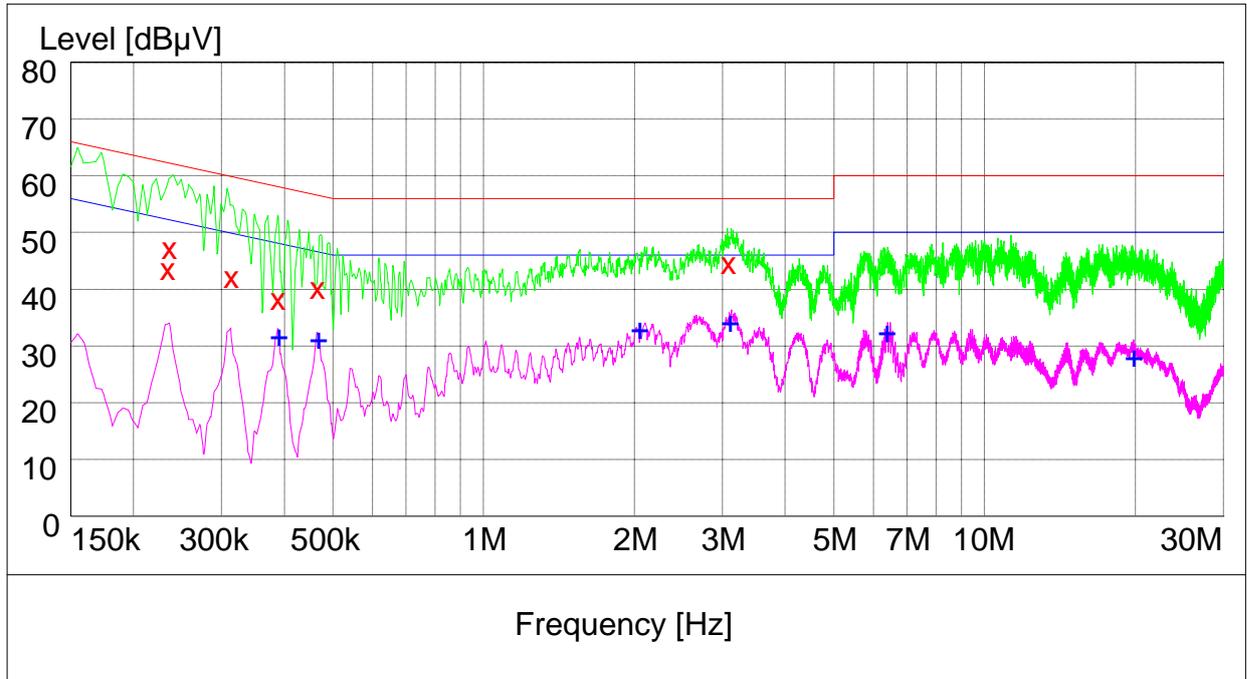
Appendix I

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
0.234000	44.40	10.0	62	17.6	N	GND
0.236000	47.90	10.0	62	14.1	N	GND
0.314000	43.70	10.0	60	16.3	N	GND
0.388000	39.20	10.0	58	18.8	N	GND
0.466000	40.10	10.1	57	16.9	N	GND
3.086000	45.60	10.2	56	10.4	N	GND

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.388000	32.90	10.0	48	15.1	N	GND
0.466000	32.50	10.1	47	14.5	N	GND
2.040000	34.20	10.1	46	11.8	N	GND
3.096000	35.50	10.2	46	10.5	N	GND
6.354000	33.70	10.2	50	16.3	N	GND
19.774000	29.40	10.4	50	20.6	N	GND