



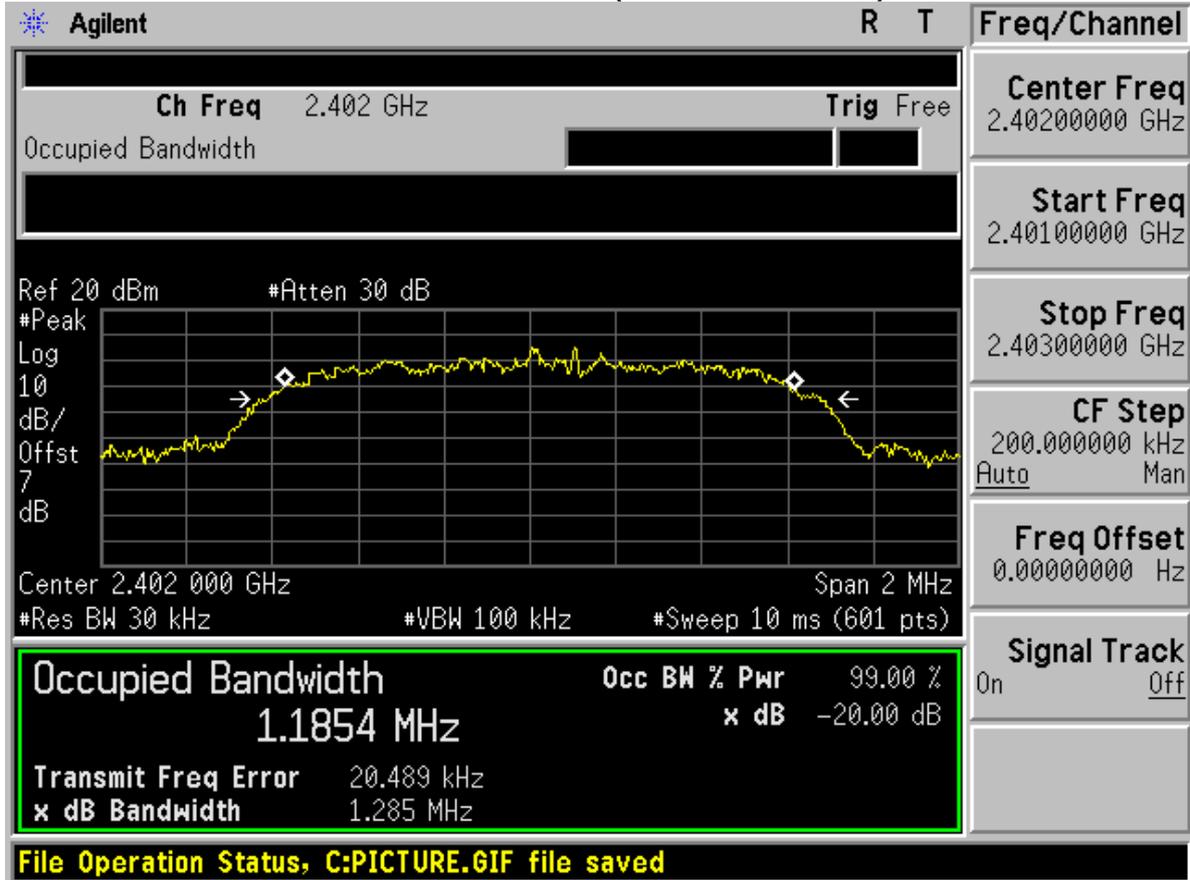
Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



Modulation: $\pi/4$ -DQPSK Channel 0 (2402MHz)





Channel 40 (2442MHz)

Agilent
R L

Ch Freq 2.442 GHz

Trig Free

Occupied Bandwidth

Ref 20 dBm #Atten 30 dB
 #Peak
 Log
 10
 dB/
 Offst
 7
 dB

Center 2.442 000 GHz
Span 2 MHz

#Res BW 30 kHz
#VBW 100 kHz
#Sweep 10 ms (601 pts)

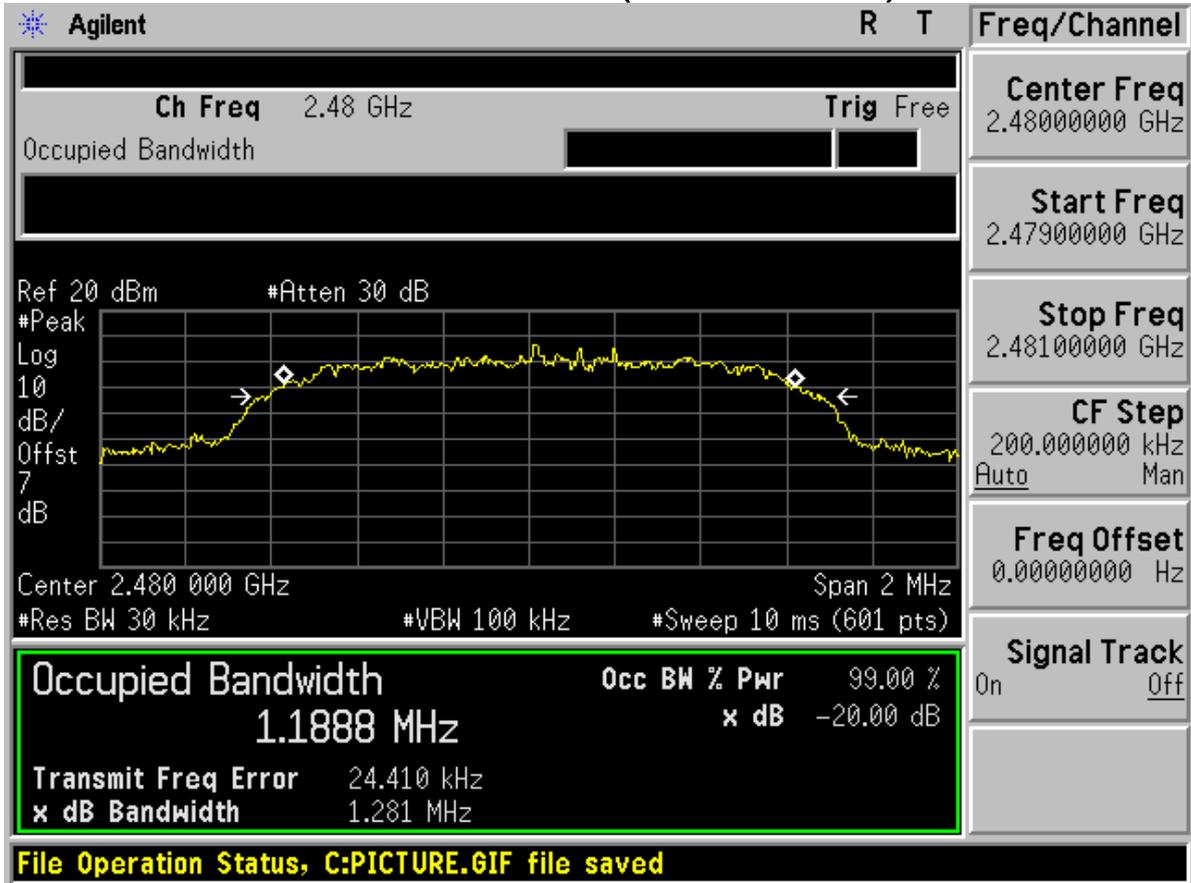
Occupied Bandwidth	Occ BW % Pwr	99.00 %
1.1851 MHz	x dB	-20.00 dB
Transmit Freq Error	23.963 kHz	
x dB Bandwidth	1.288 MHz	

Freq/Channel
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

File Operation Status, C:PICTURE.GIF file saved



Channel 78 (2480MHz)



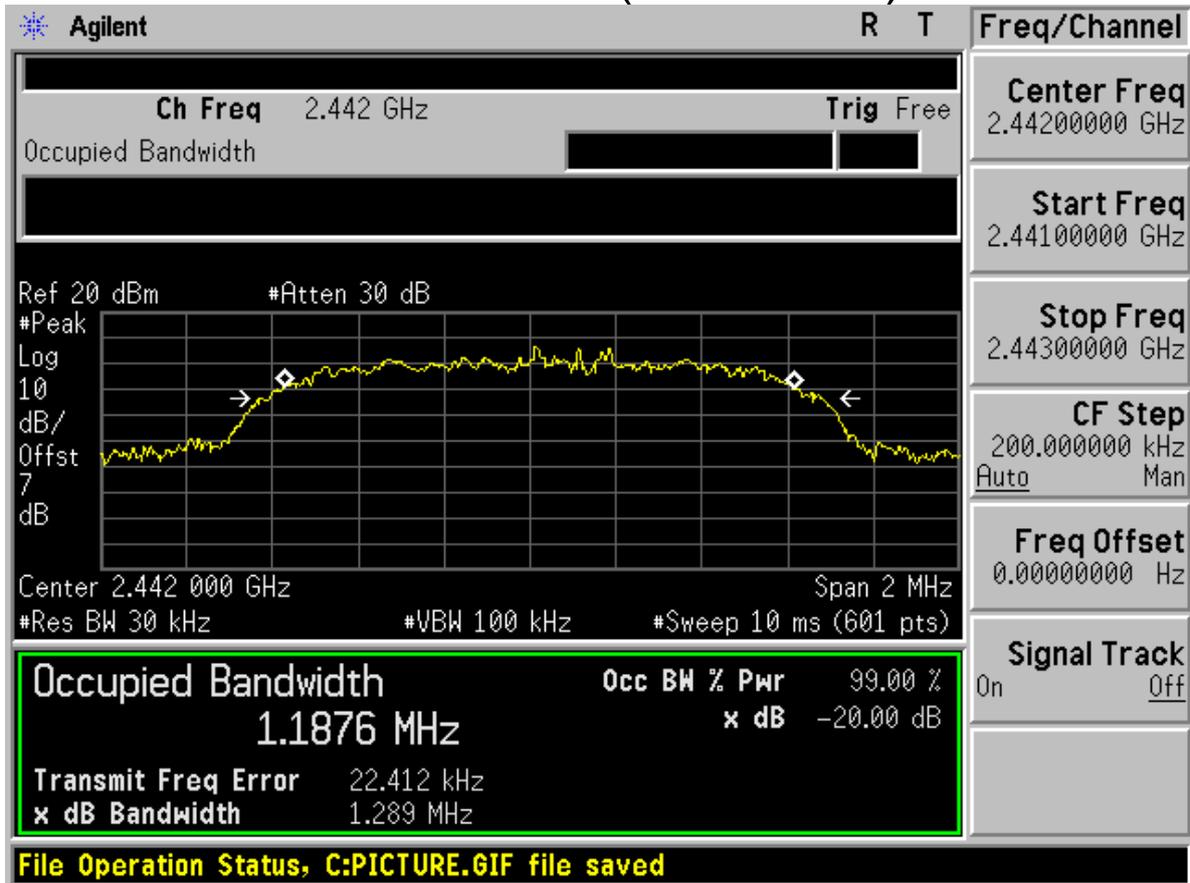


Modulation: 8DPSK Channel 0 (2402MHz)



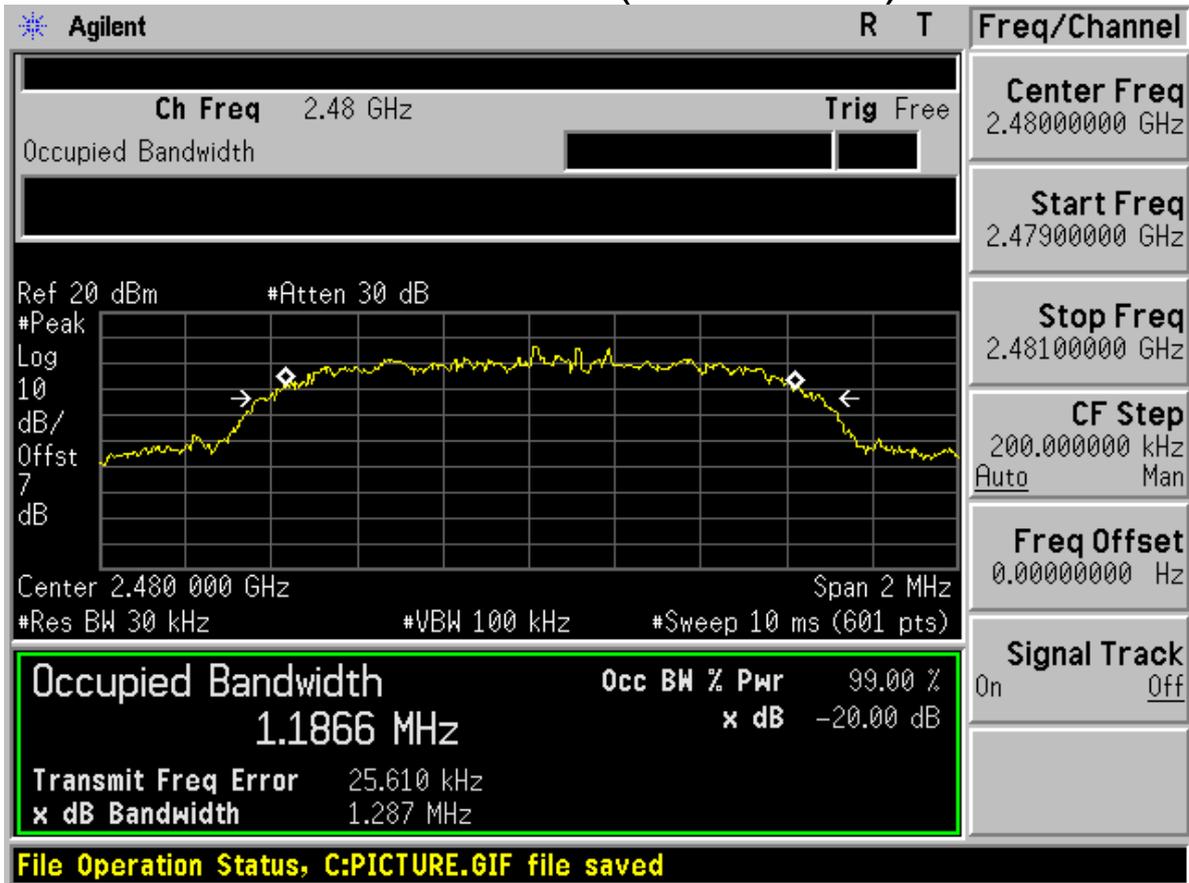


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix B

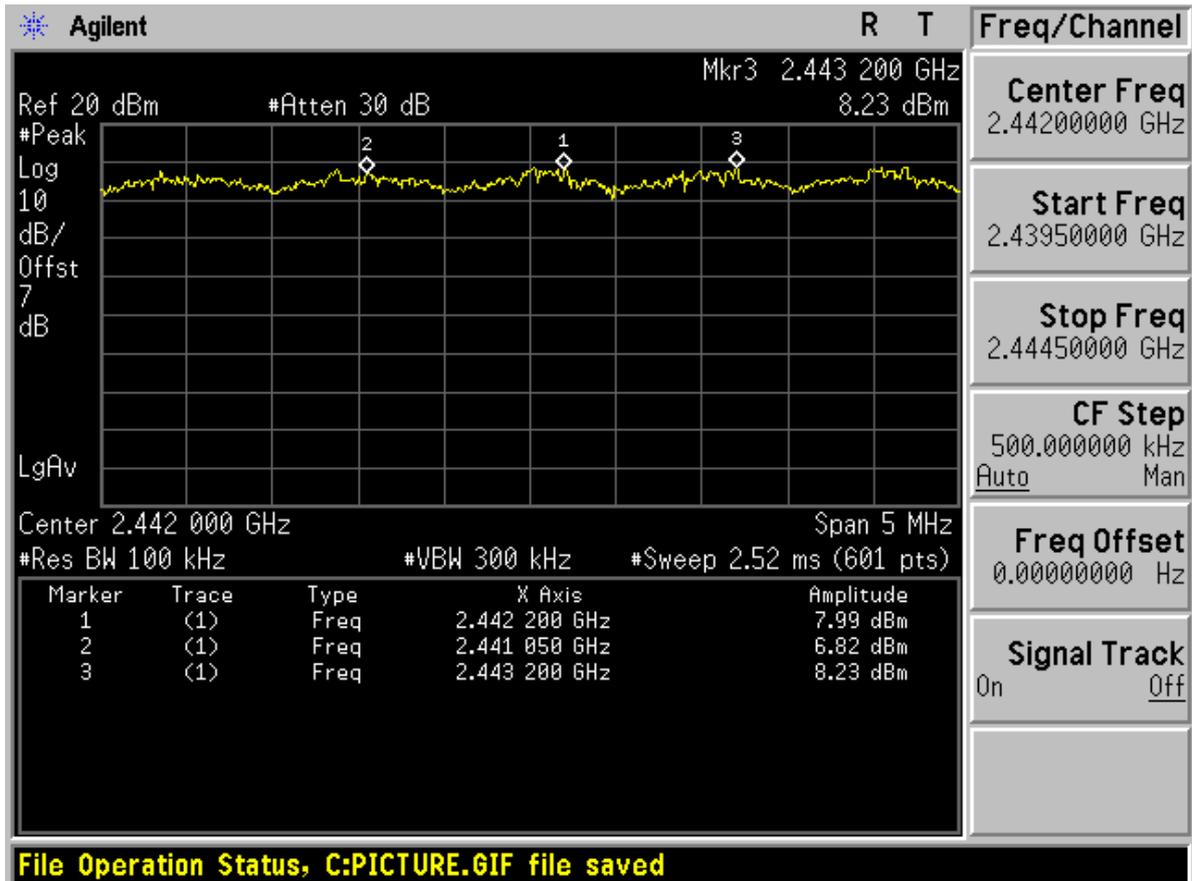
Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



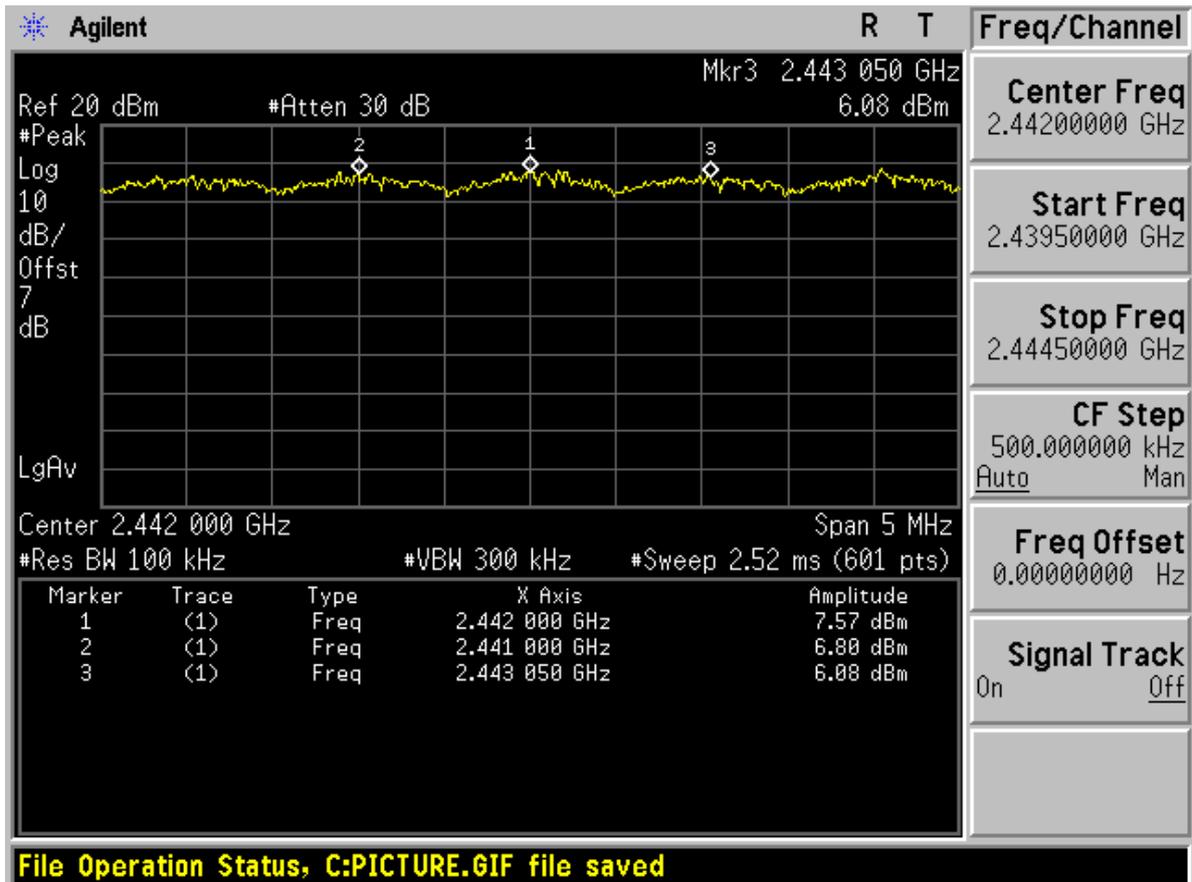
Modulation: $\pi/4$ -DQPSK

Centred at Channel 40





Modulation: 8DPSK Centred at Channel 40





Appendix C

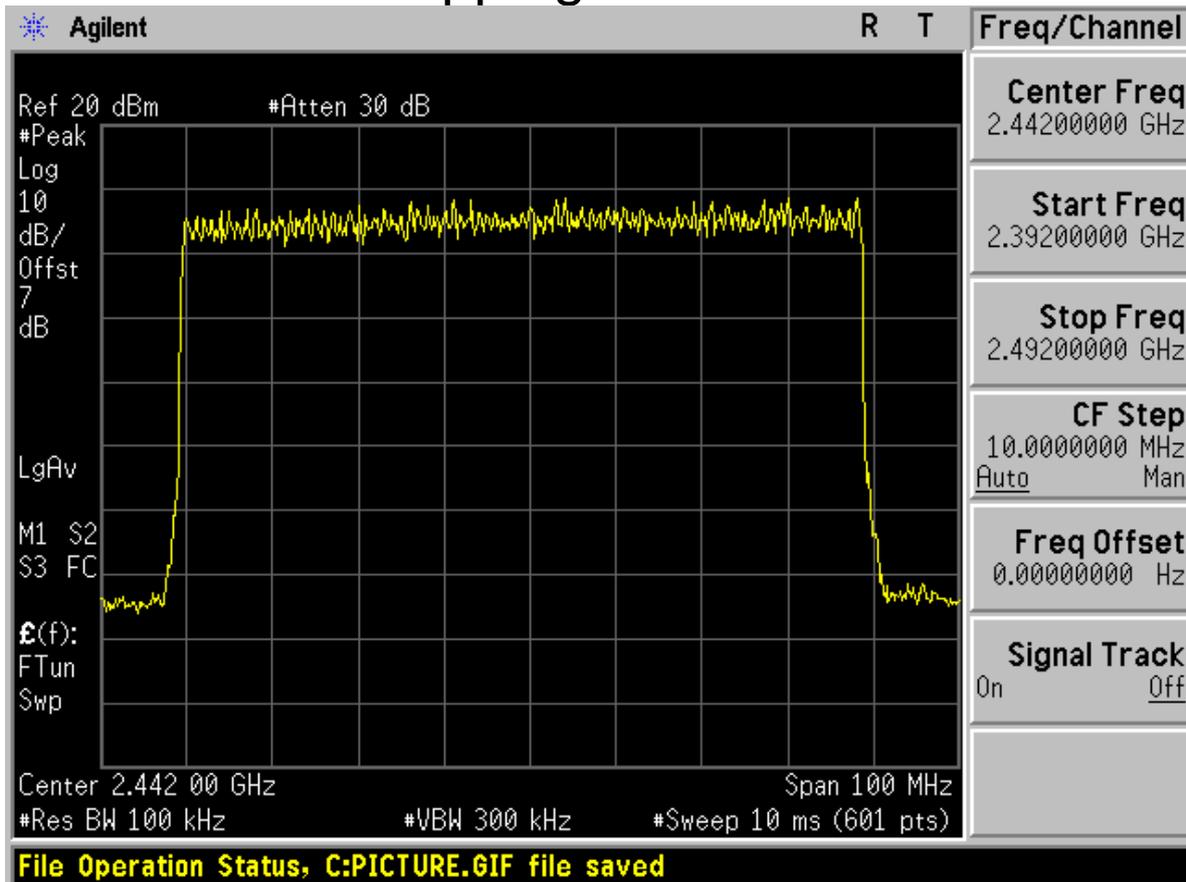
Number of hopping channel

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



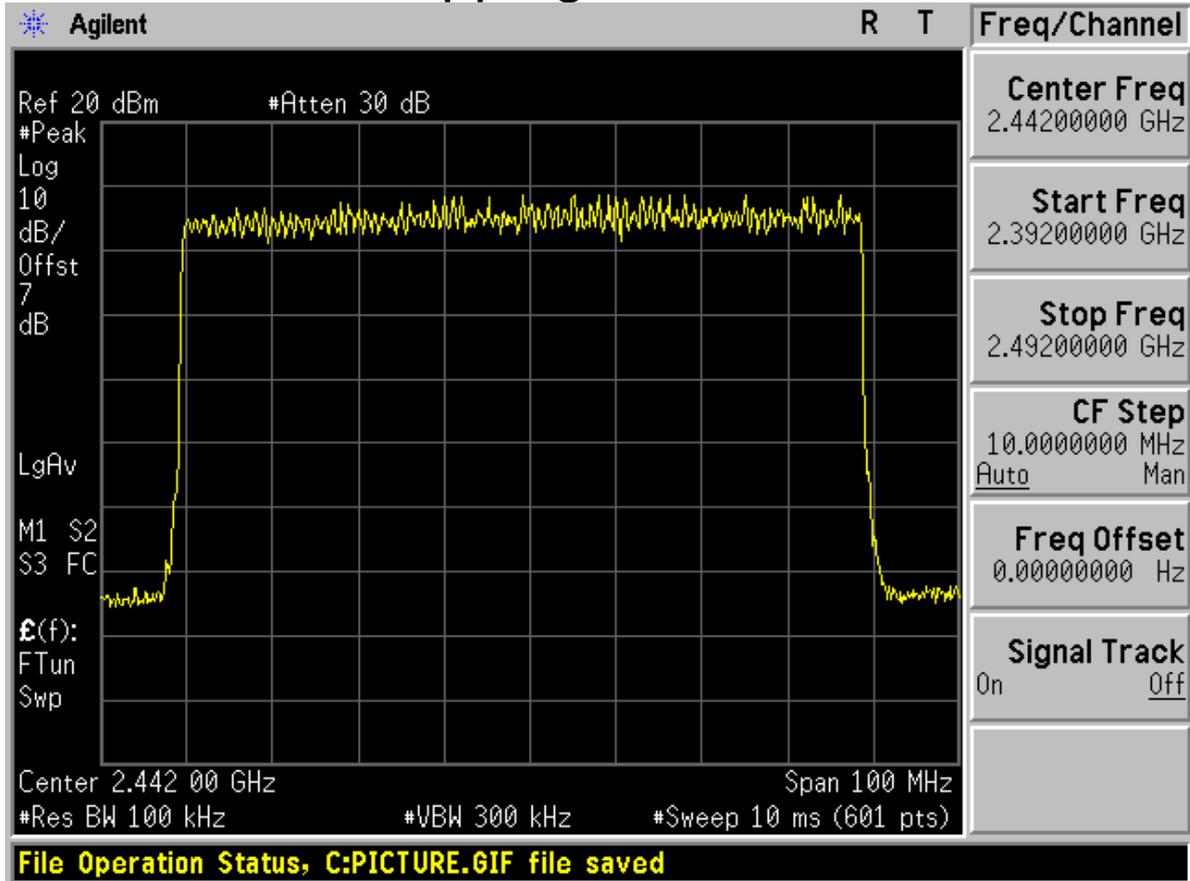
Modulation: $\pi/4$ -DQPSK

Total hopping channels = 79





Modulation: 8DPSK Total hopping channels = 79





Appendix D

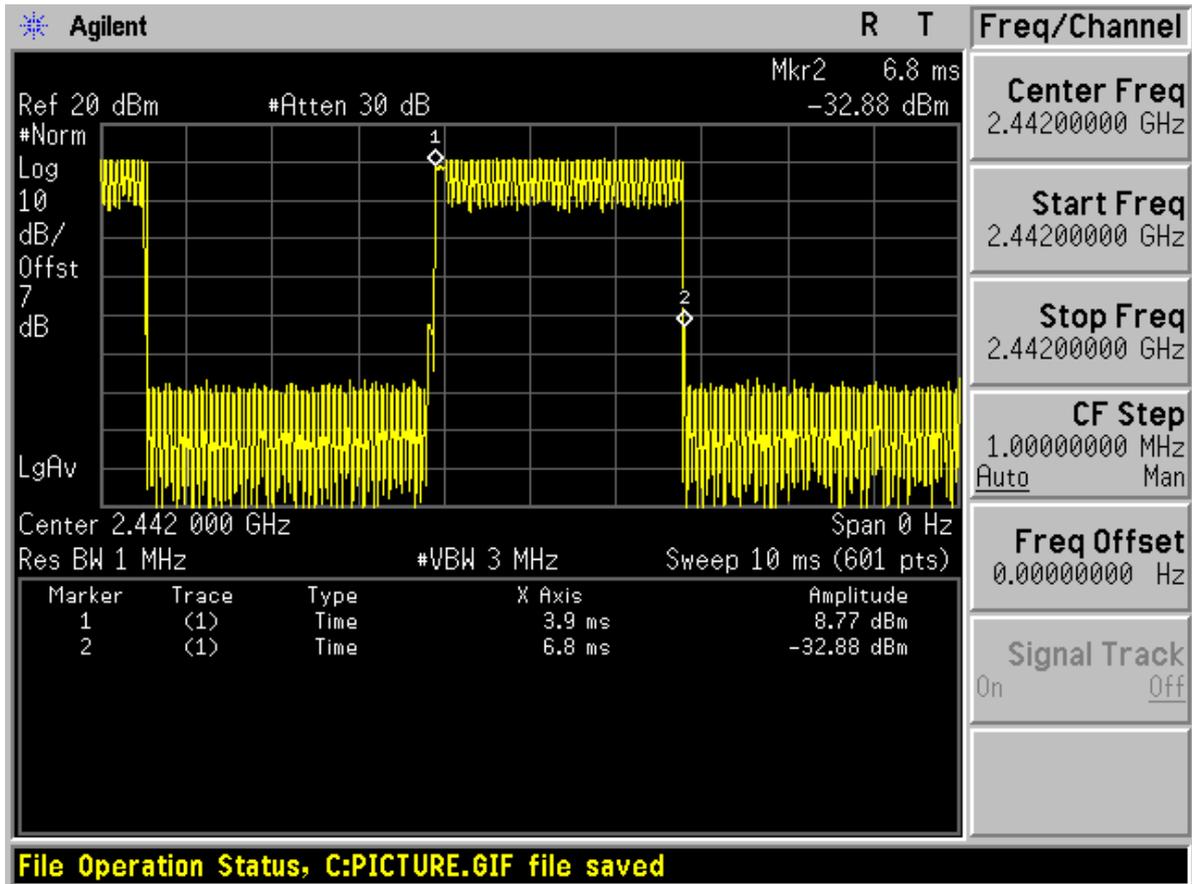
Time of occupancy

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



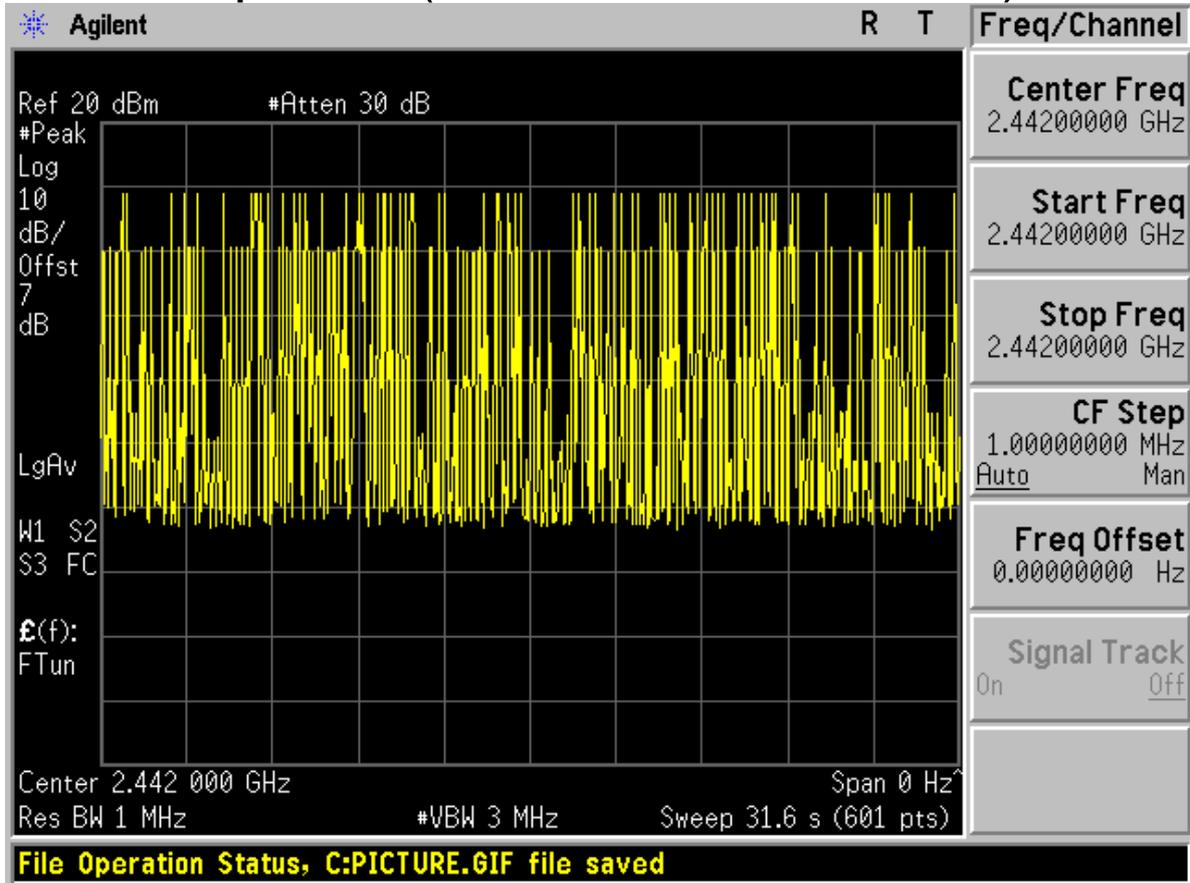
Modulation: $\pi/4$ -DQPSK

A burst (One time slot)





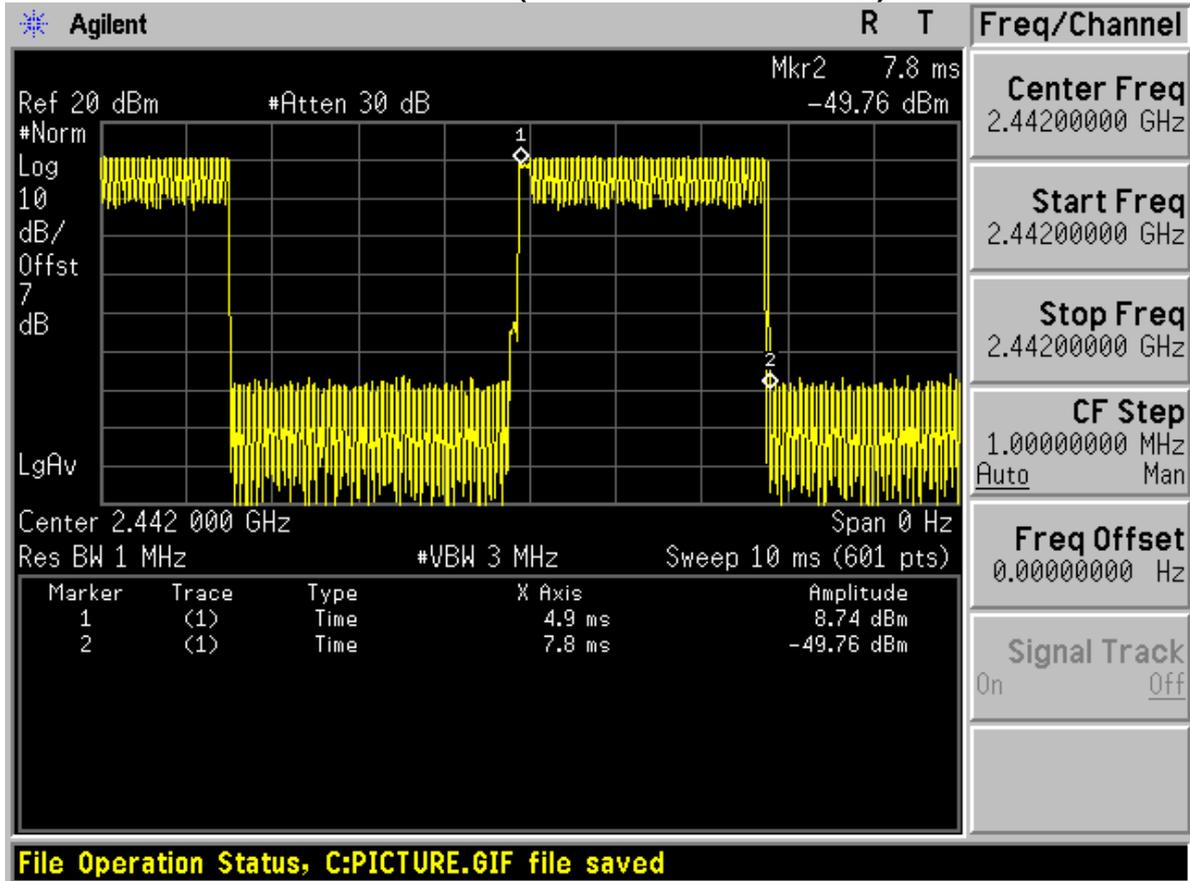
A period (Less than 106.7 burst)





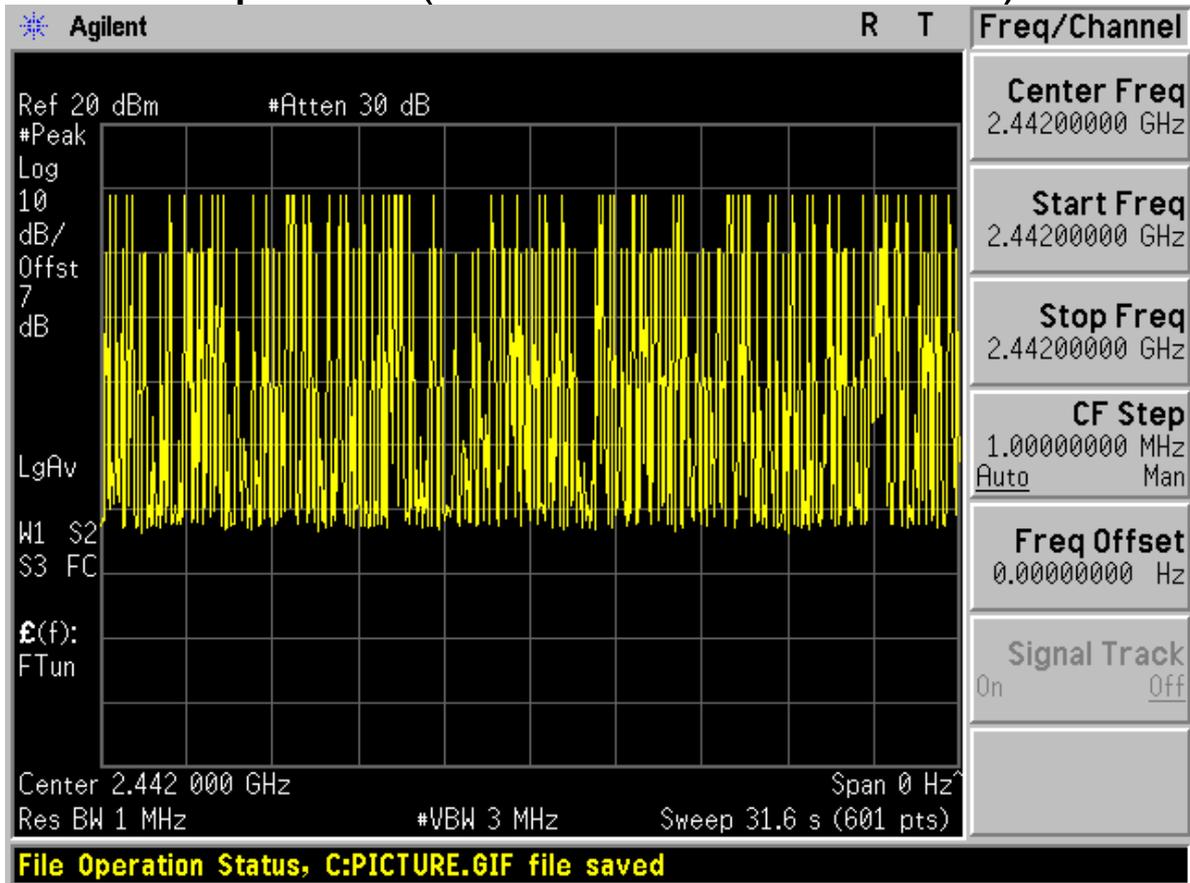
Modulation: 8DPSK

A burst (One time slot)





A period (Less than 106.7 burst)





Appendix E

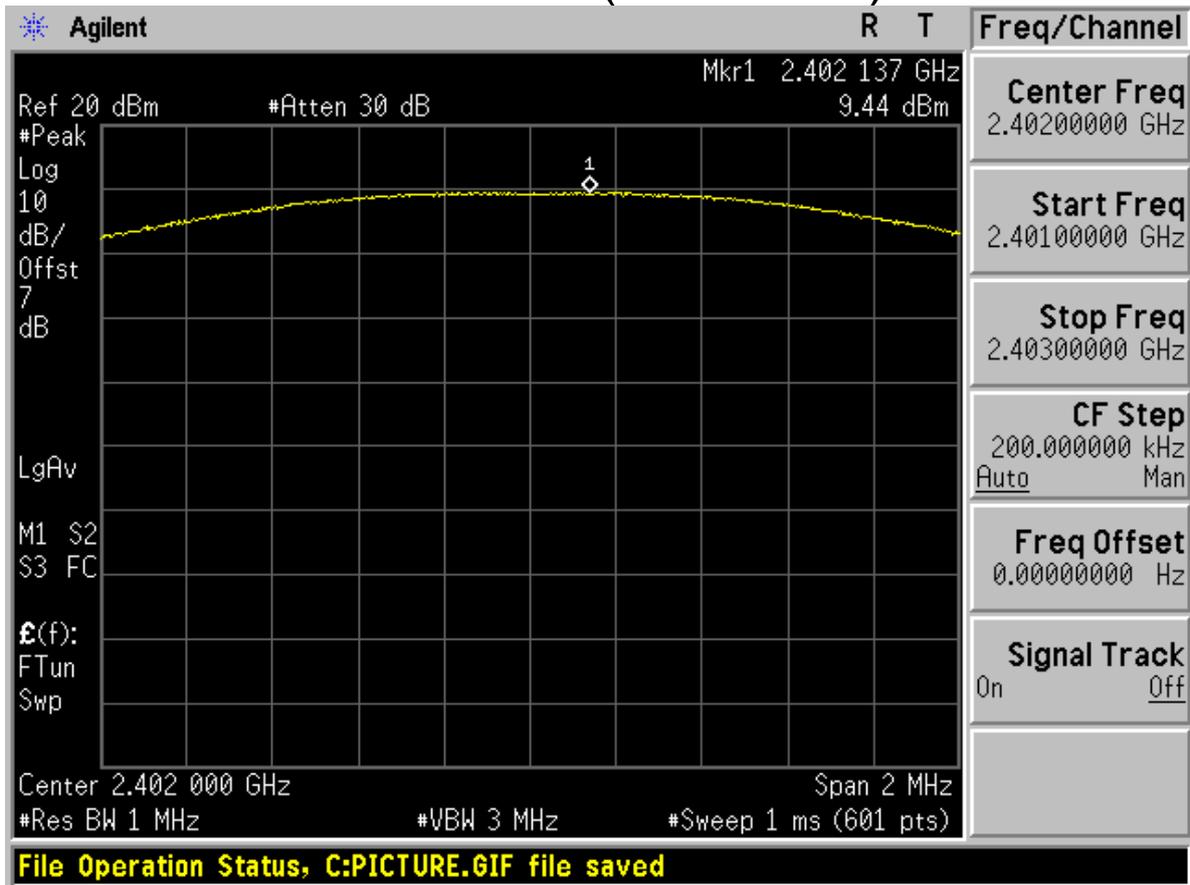
Peak output power

According to FCC Part 15.247 (b) (1)



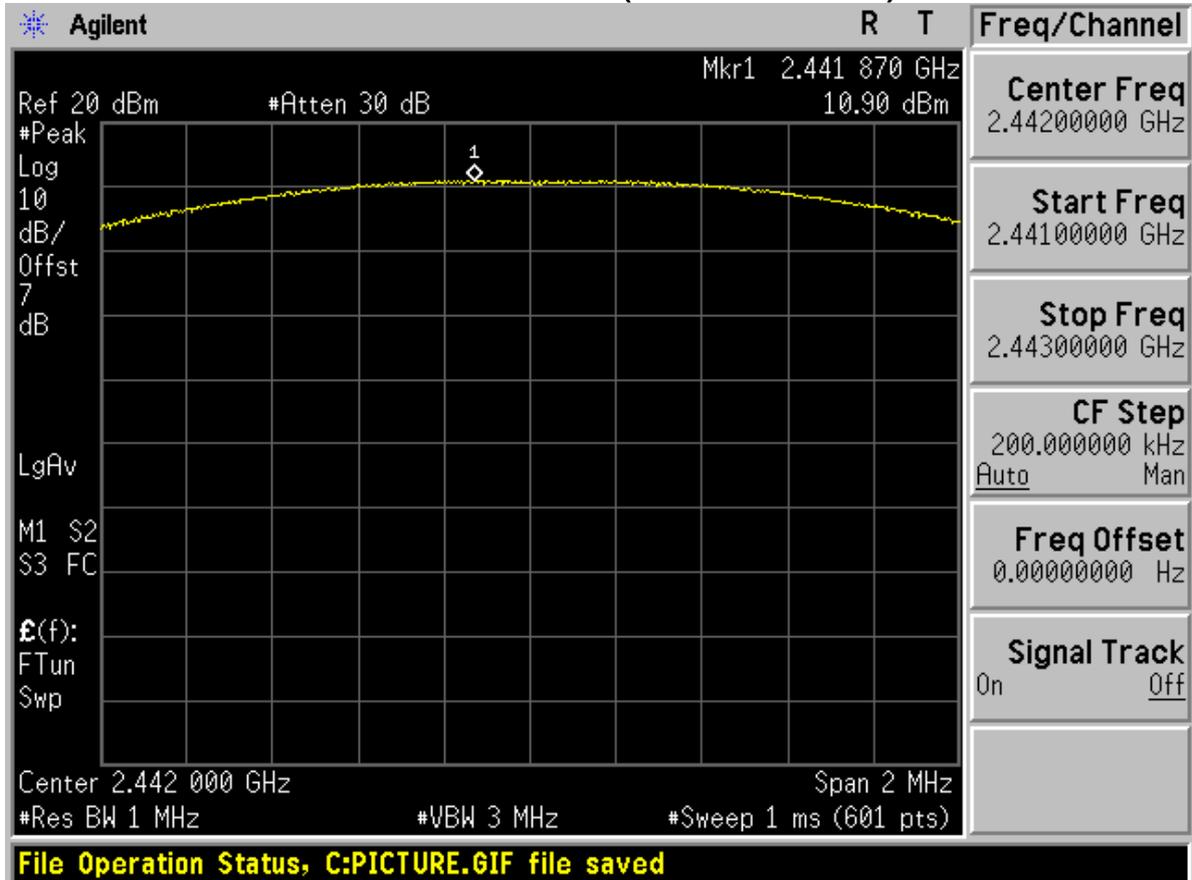
Modulation: $\pi/4$ -DQPSK

Channel 0 (2402MHz)



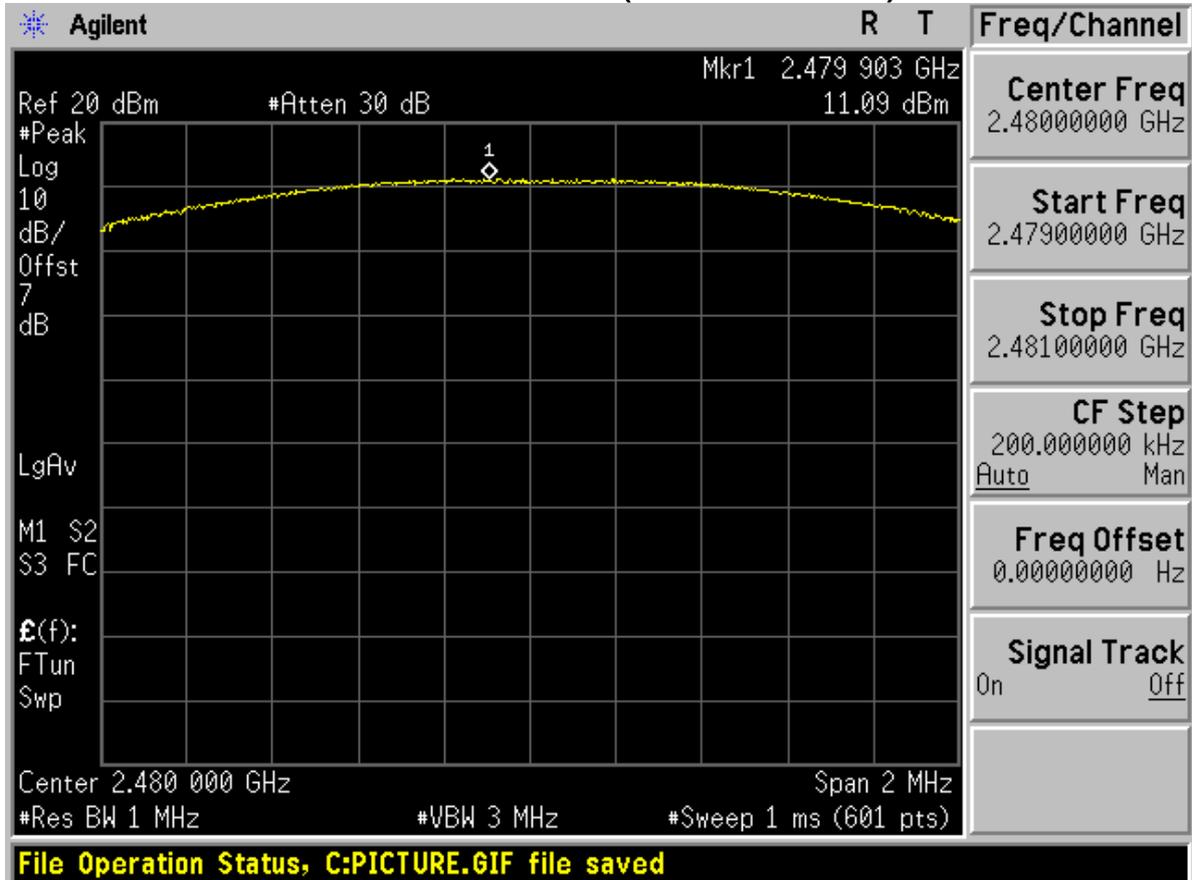


Channel 40 (2442MHz)



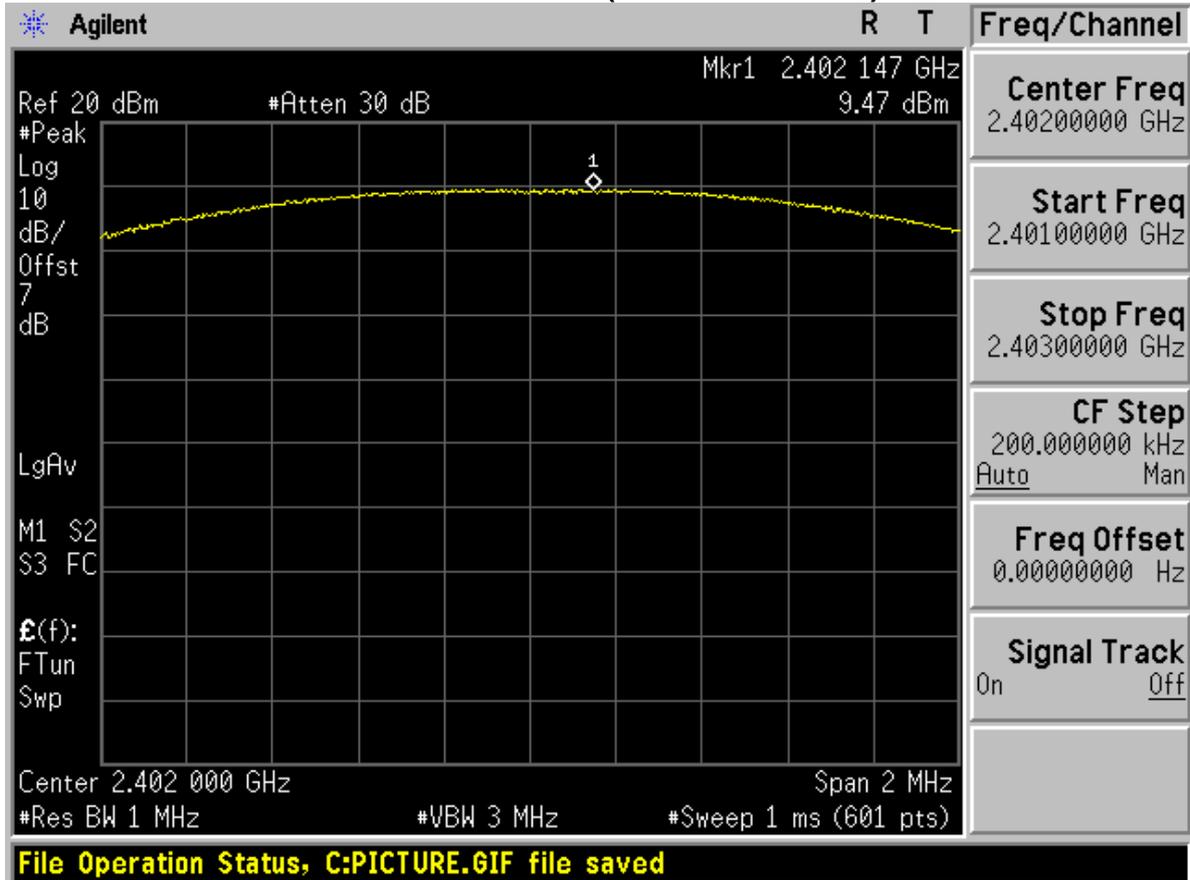


Channel 78 (2480MHz)



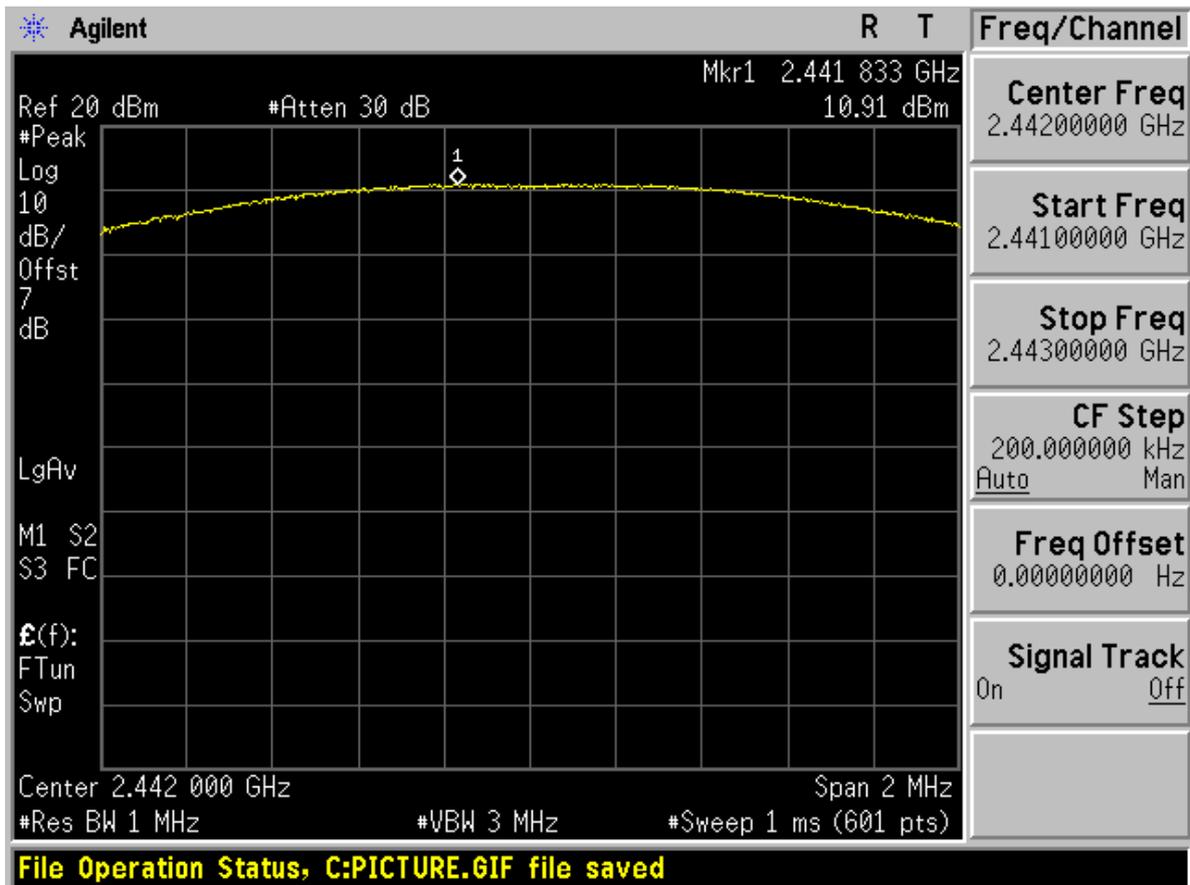


Modulation: 8DPSK Channel 0 (2402MHz)



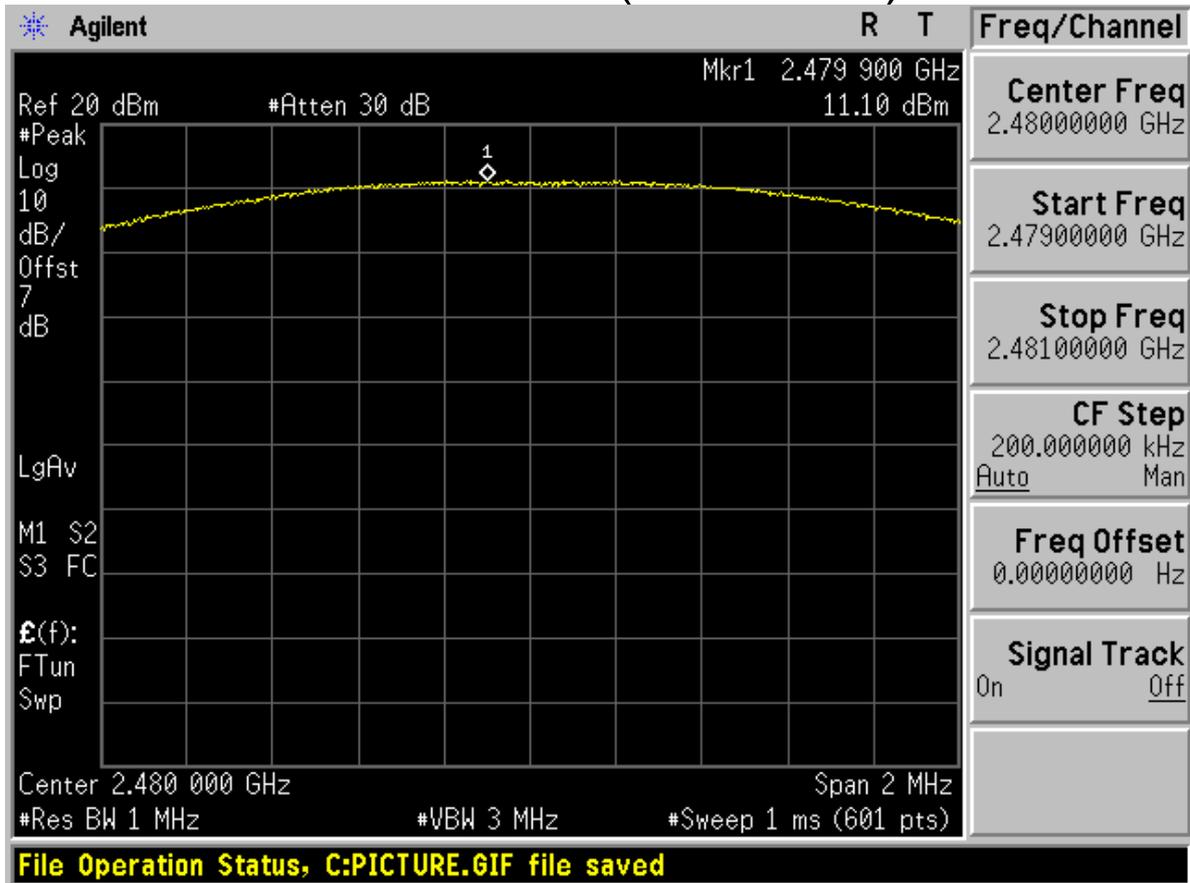


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix F

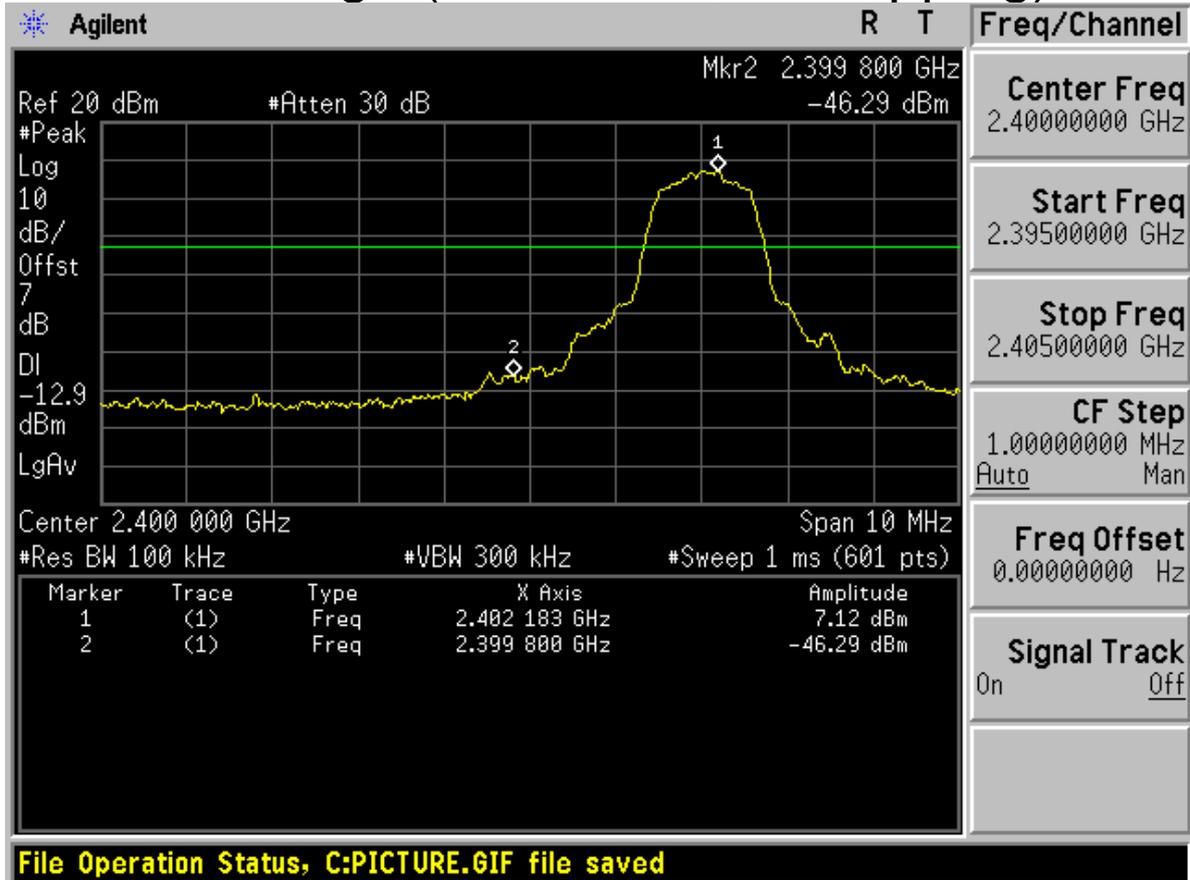
Band edge spurious emission

According to FCC Part 15.247 (d)



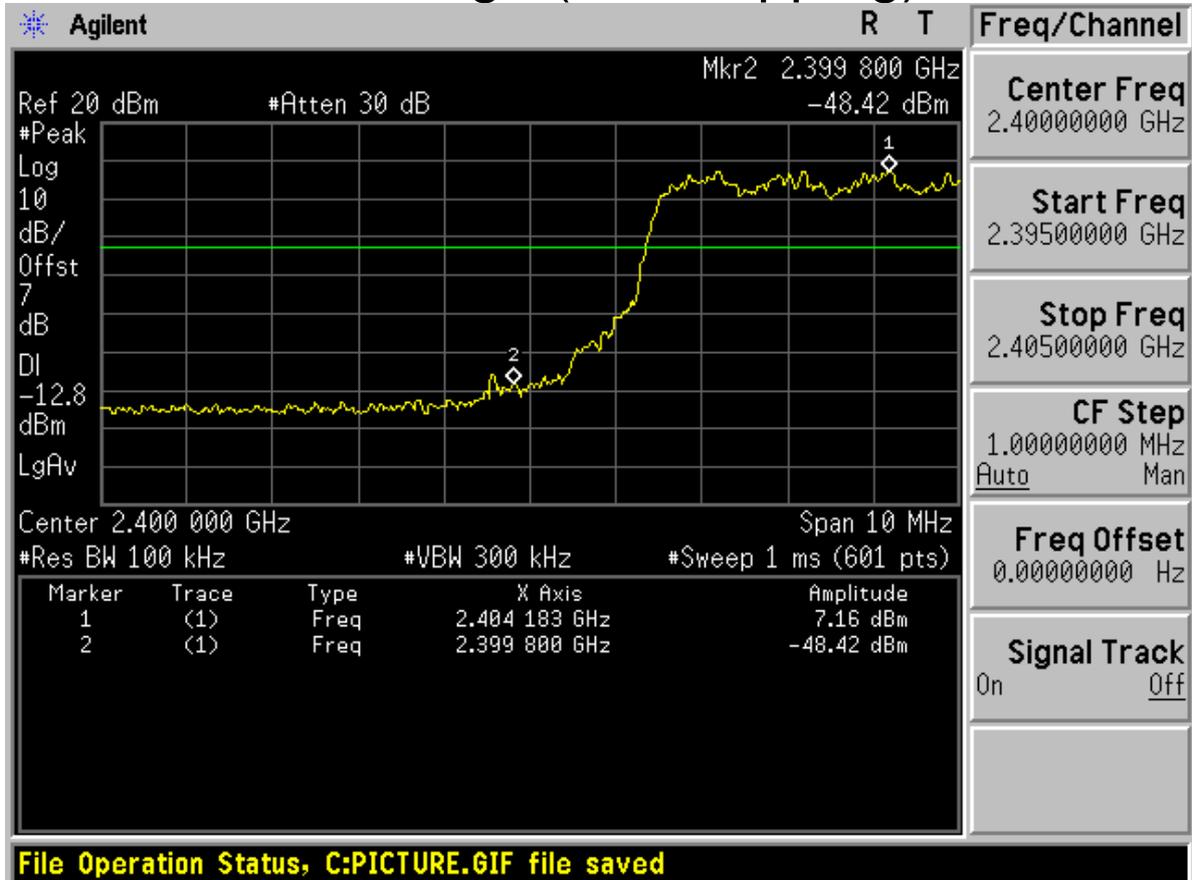
Modulation: $\pi/4$ -DQPSK

Low edge (Channel 0, no hopping)



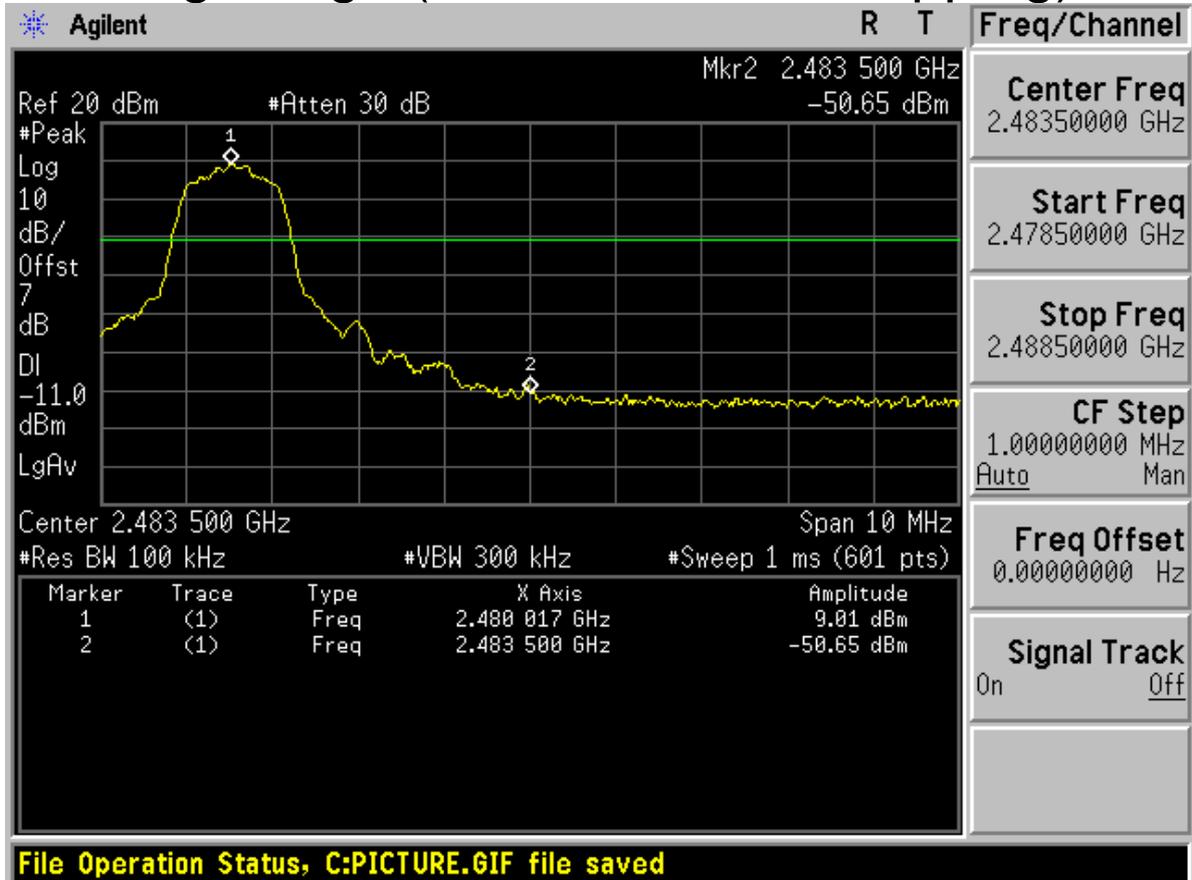


Low edge (with hopping)



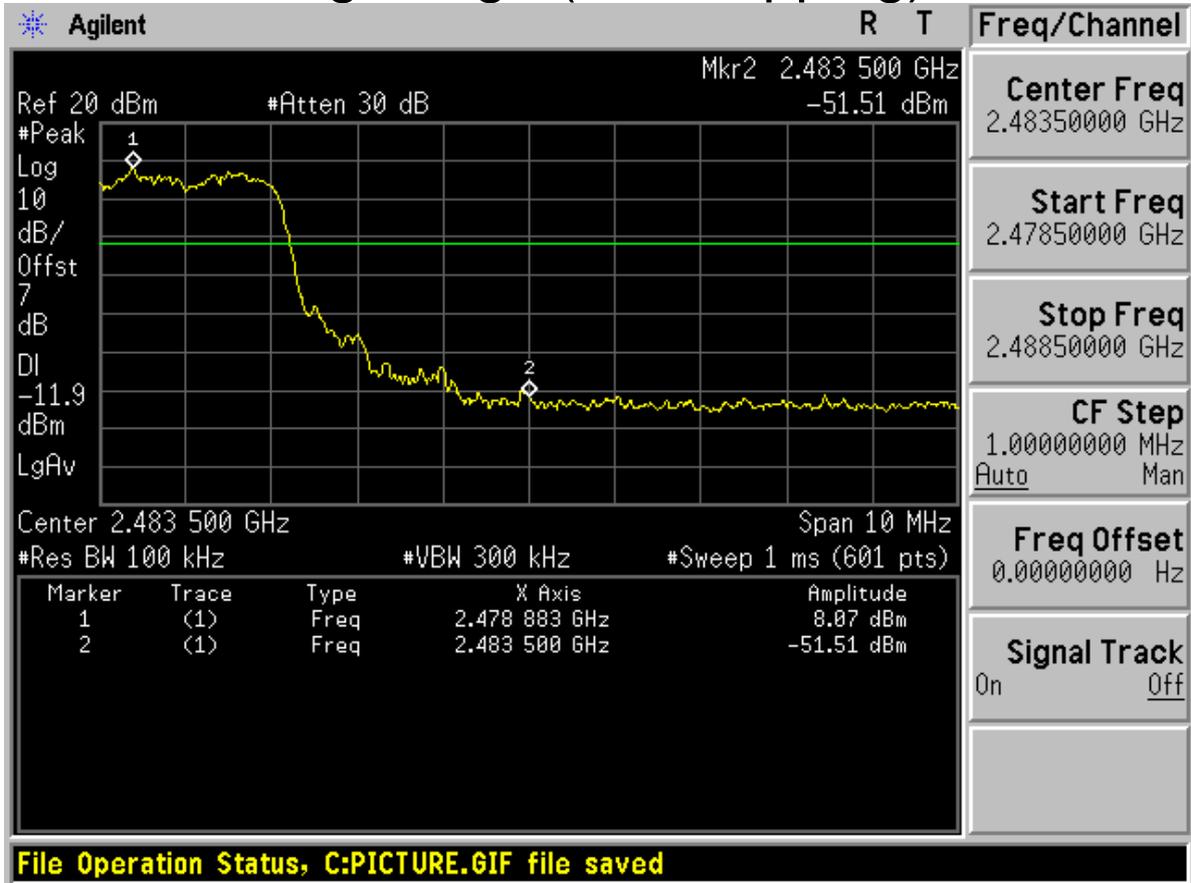


High edge (Channel 78, no hopping)



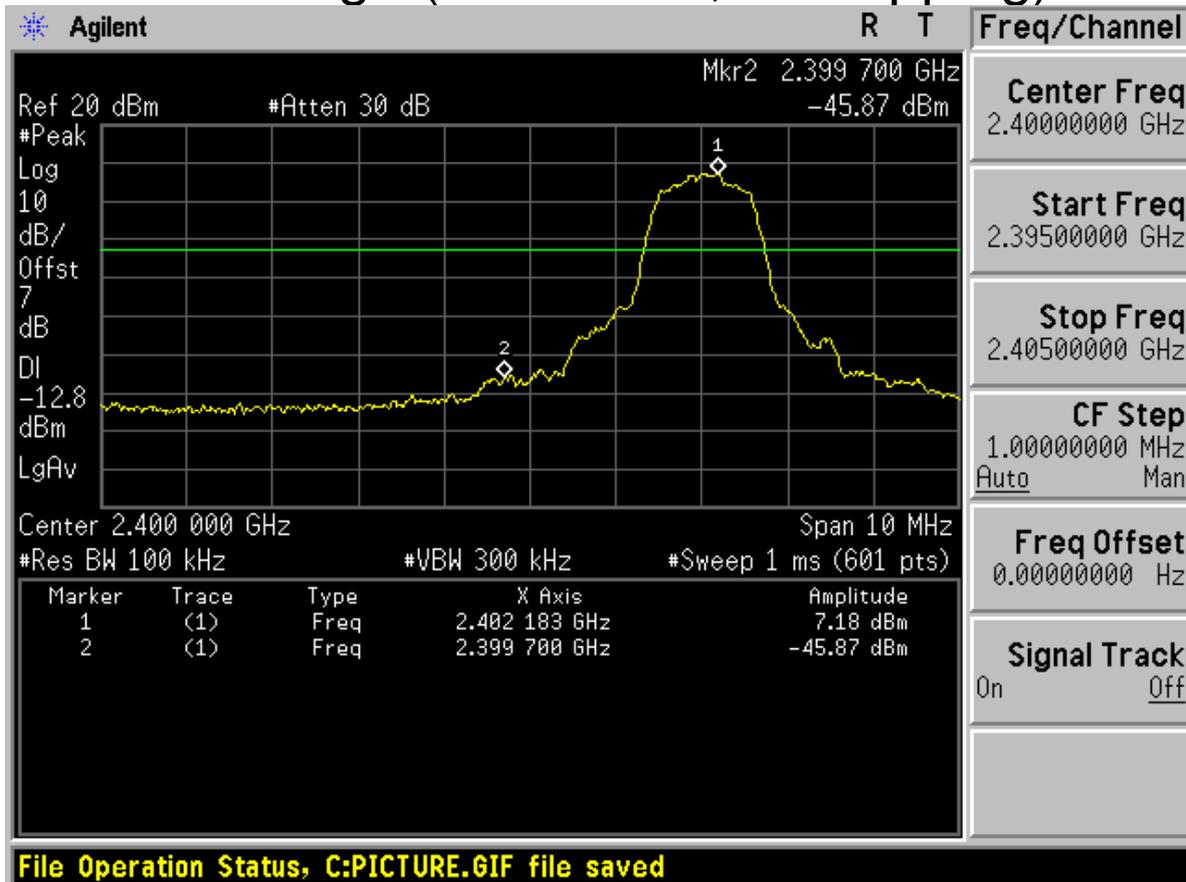


High edge (with hopping)



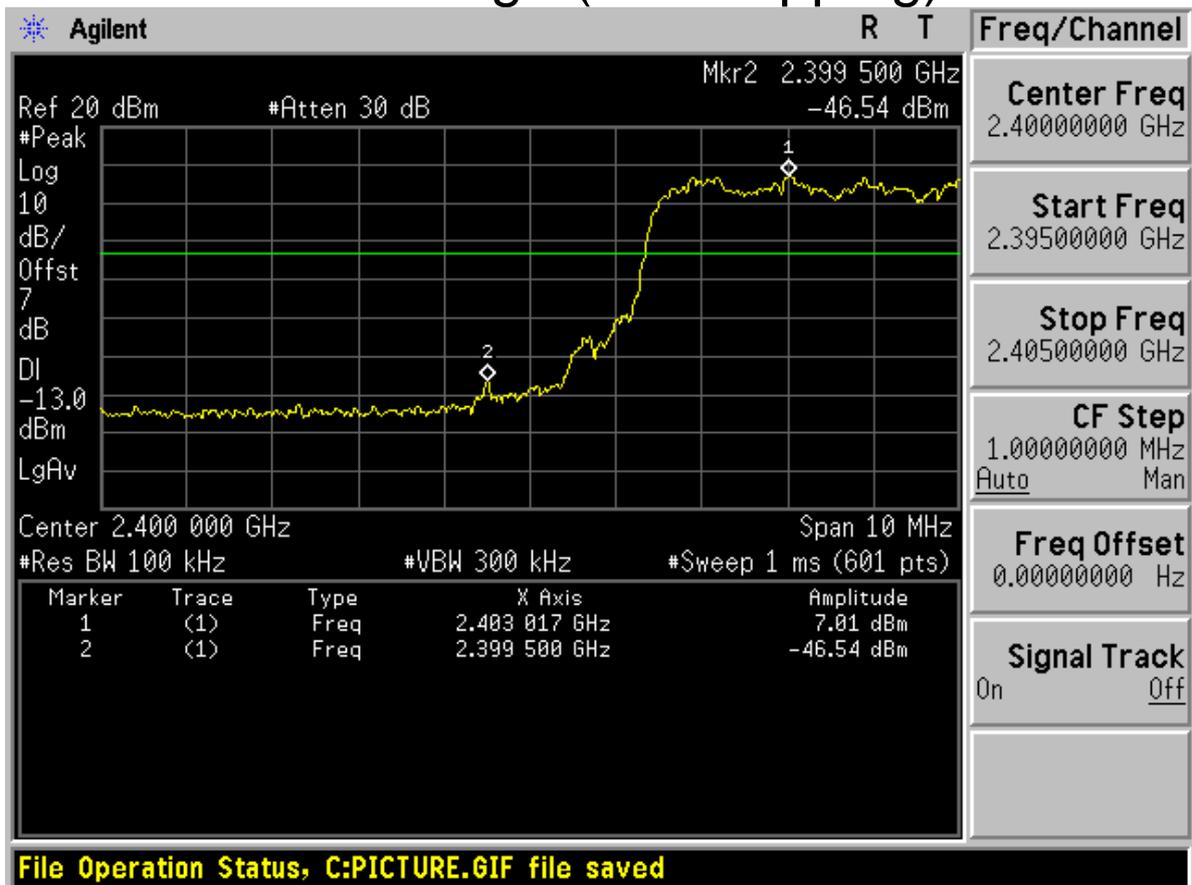


Modulation: 8DPSK Low edge (Channel 0, no hopping)



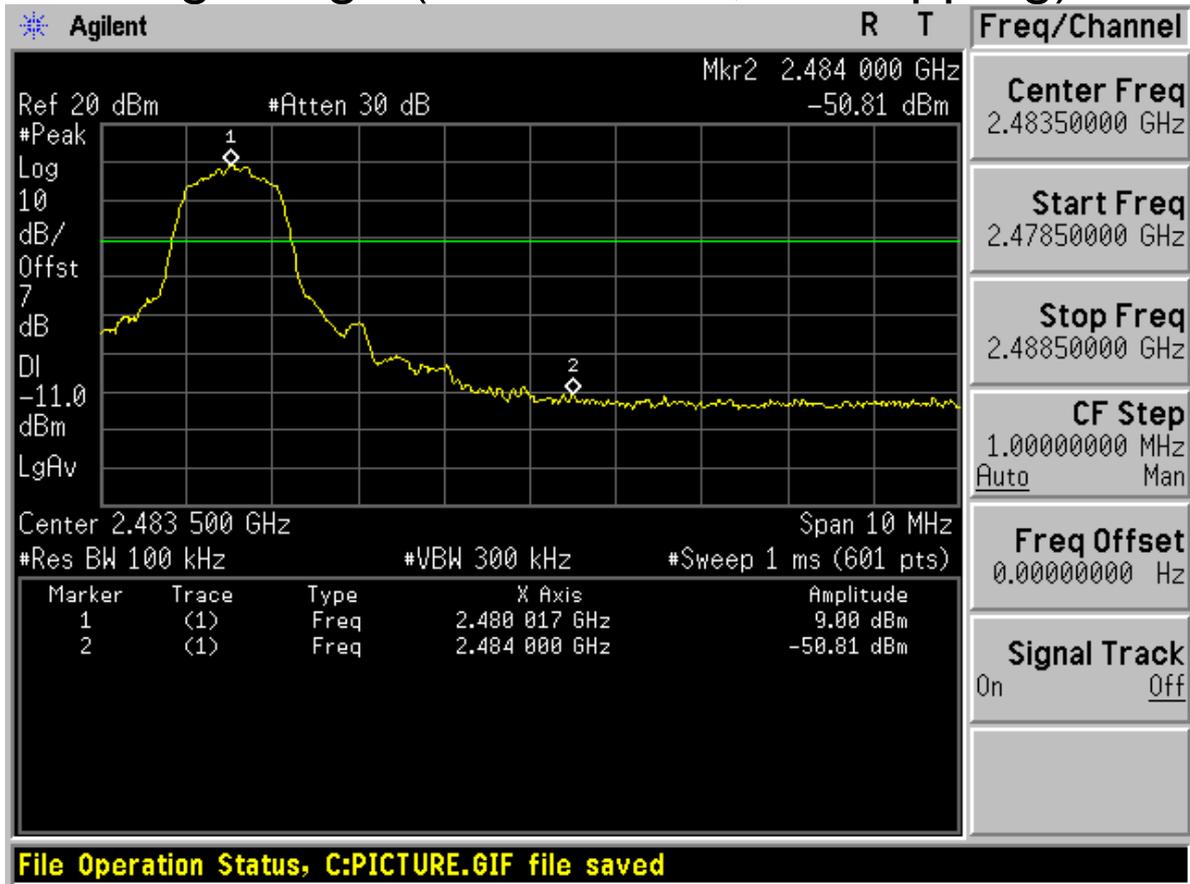


Low edge (with hopping)



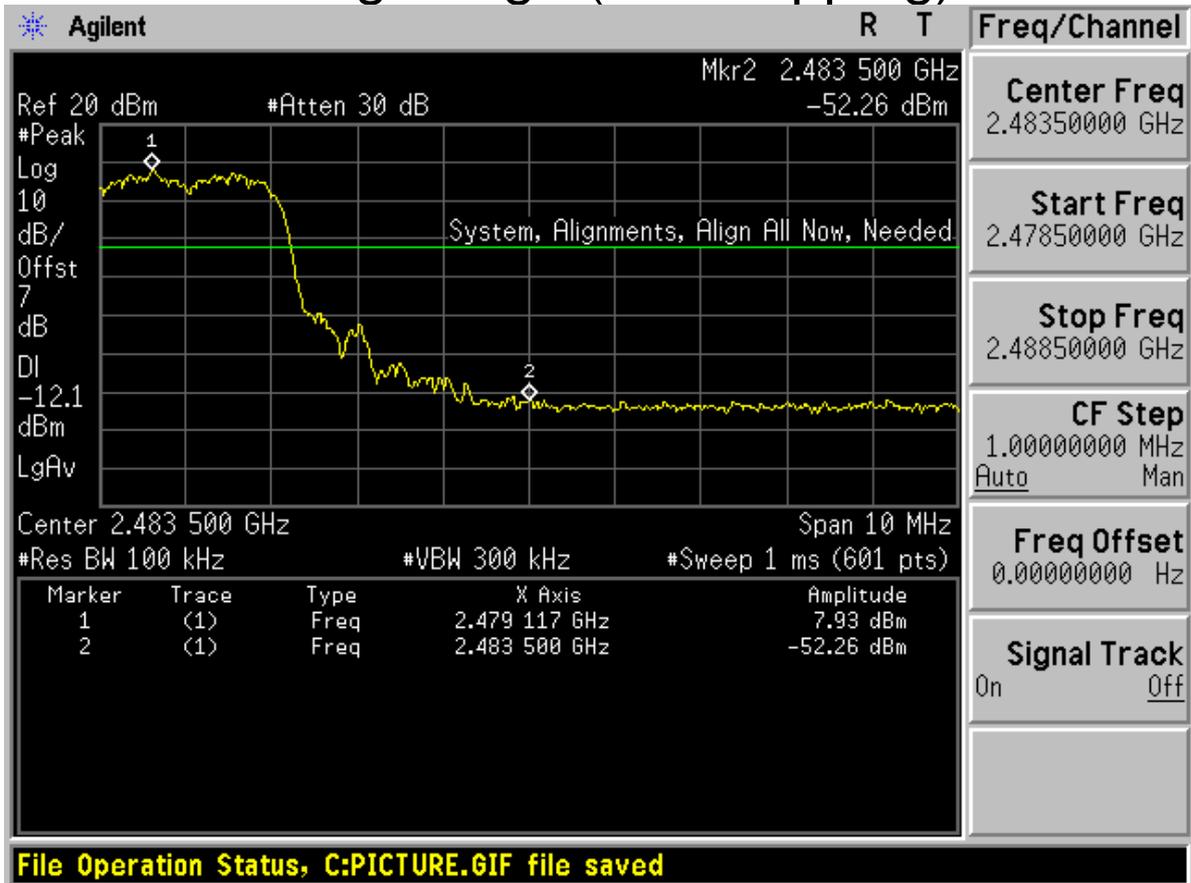


High edge (Channel 78, no hopping)





High edge (with hopping)





Appendix G

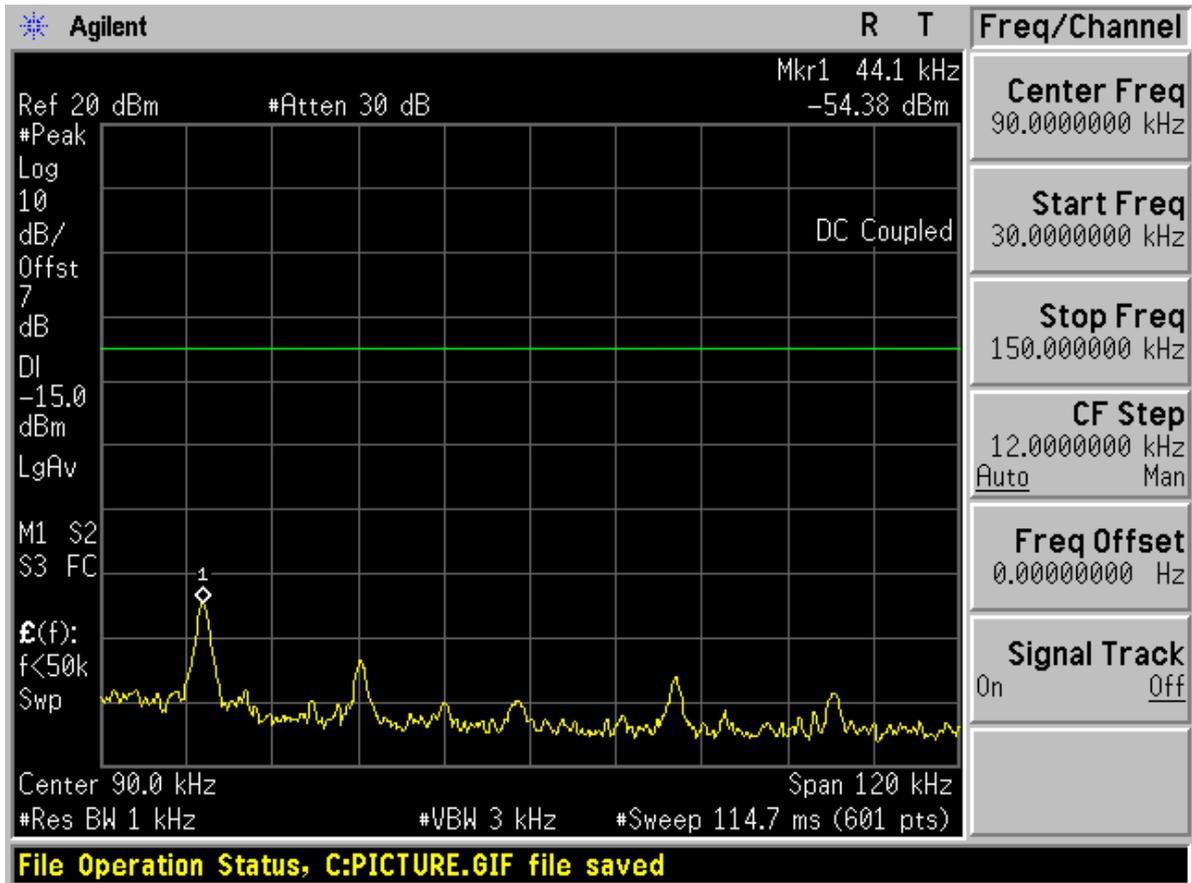
Conducted RF spurious

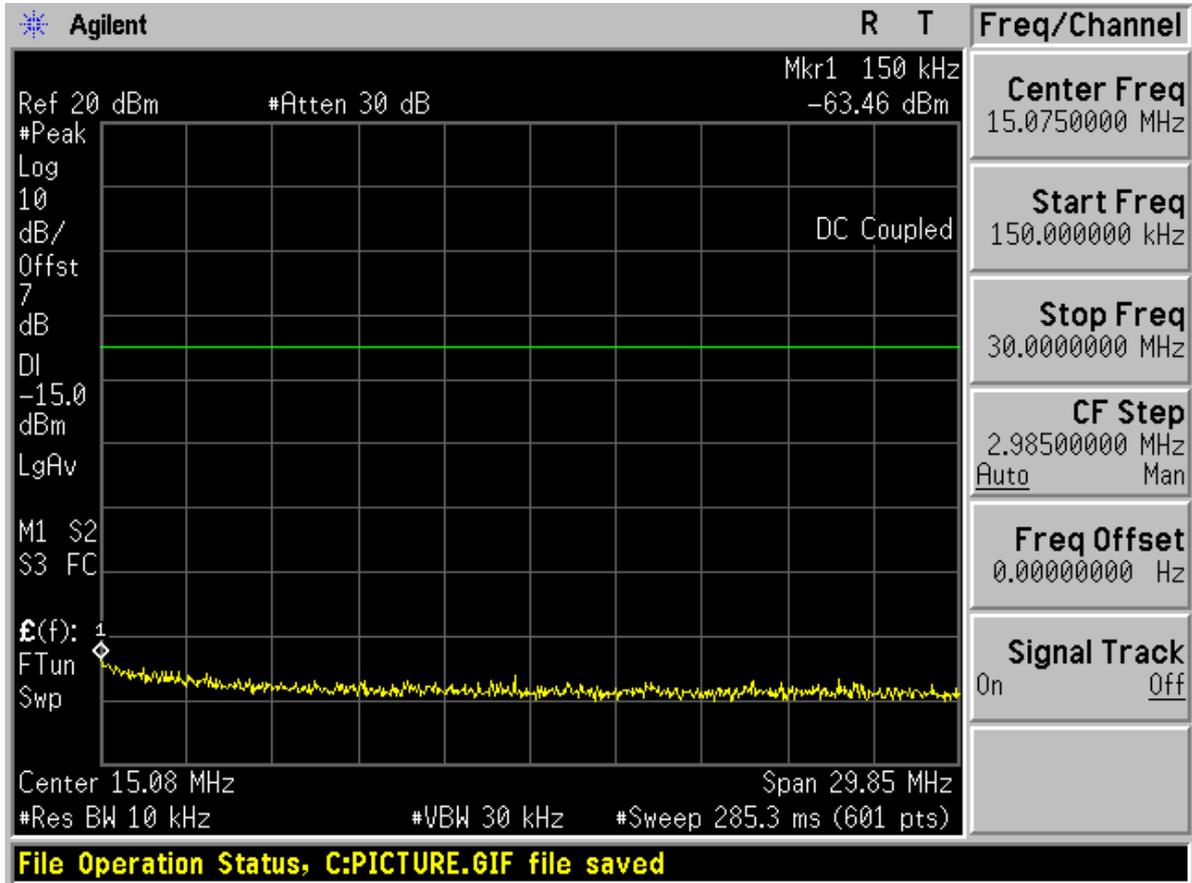
According to FCC Part 15.247 (d)

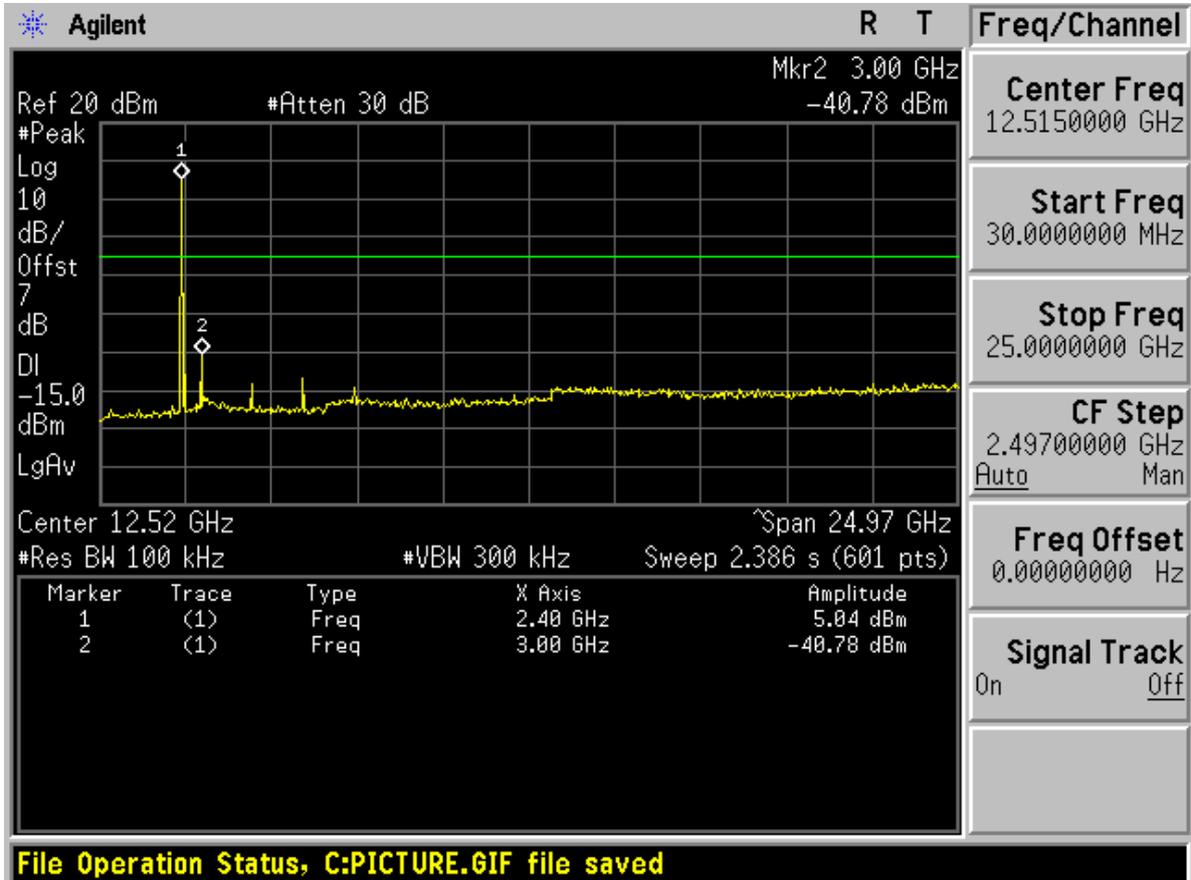


Modulation: π /4-DQPSK

Channel 0

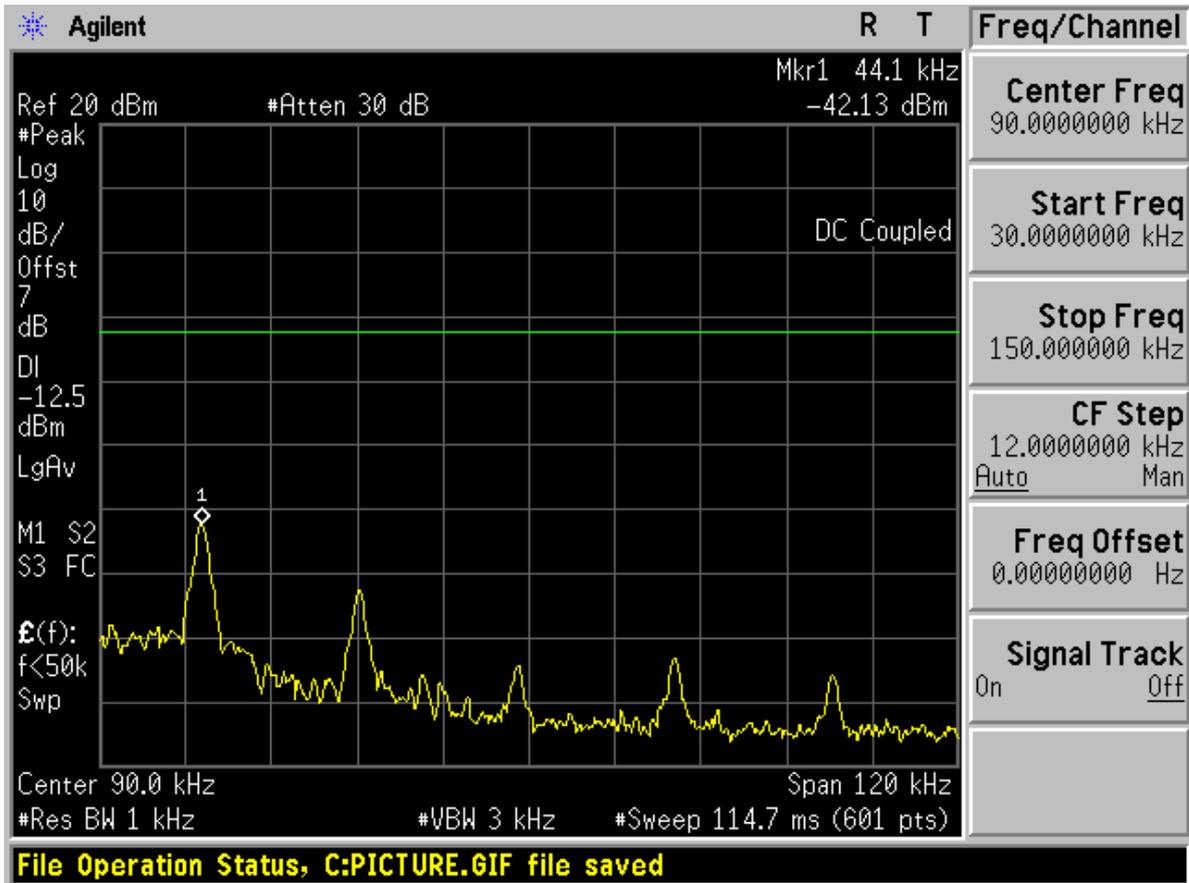


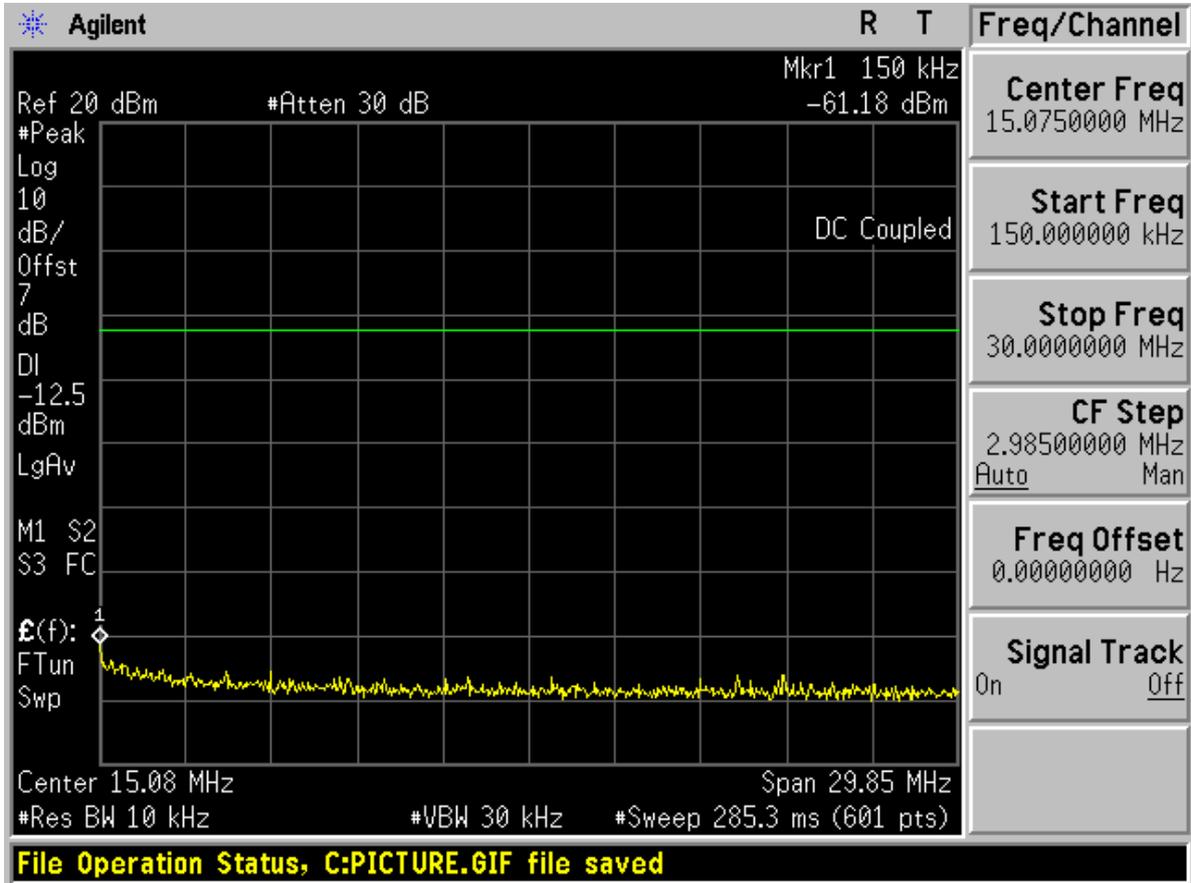


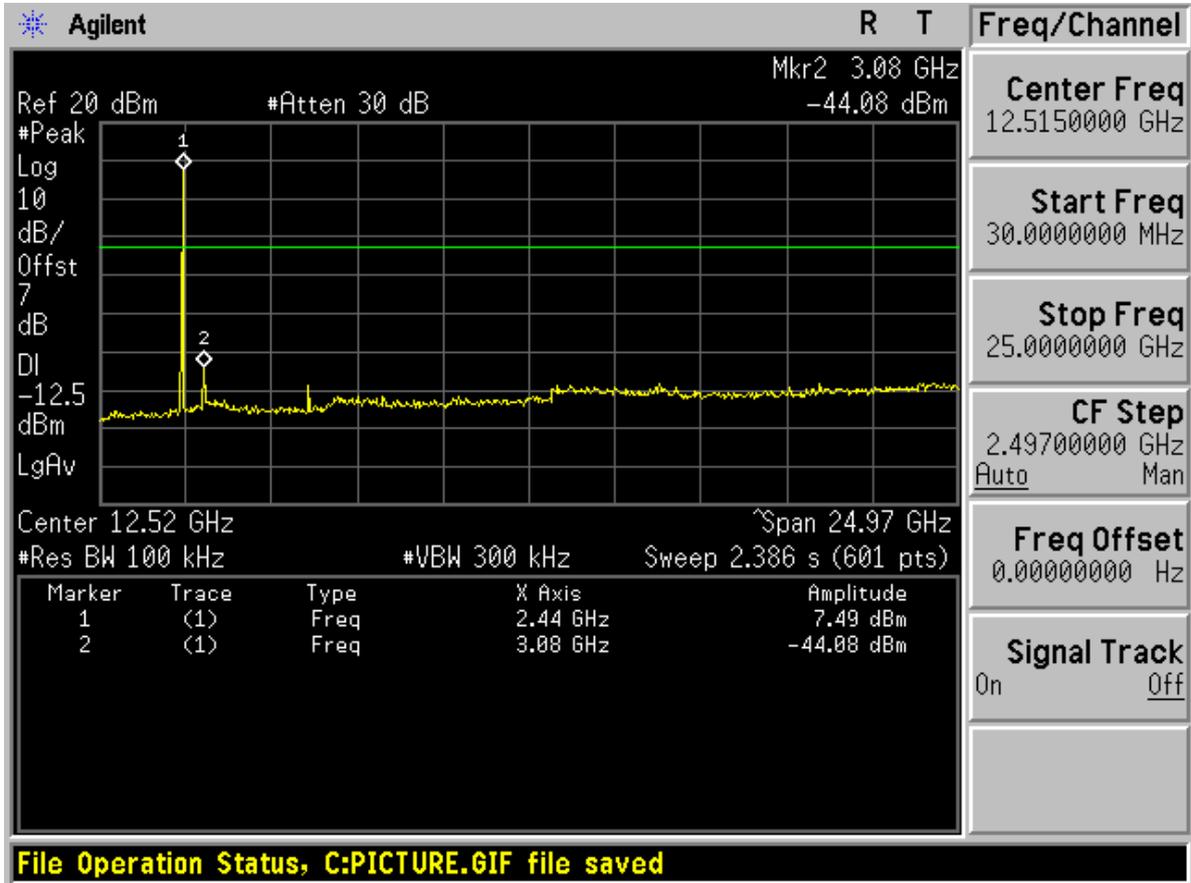




Channel 40

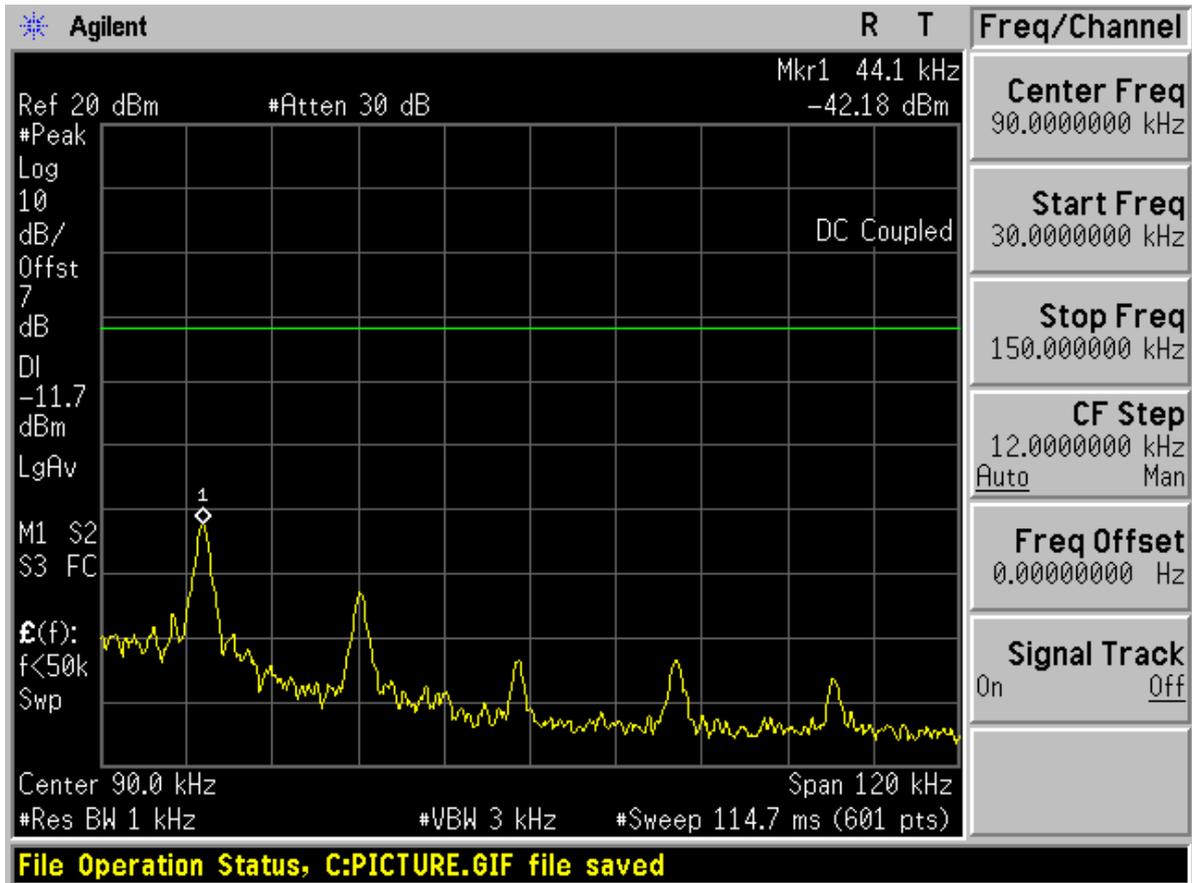


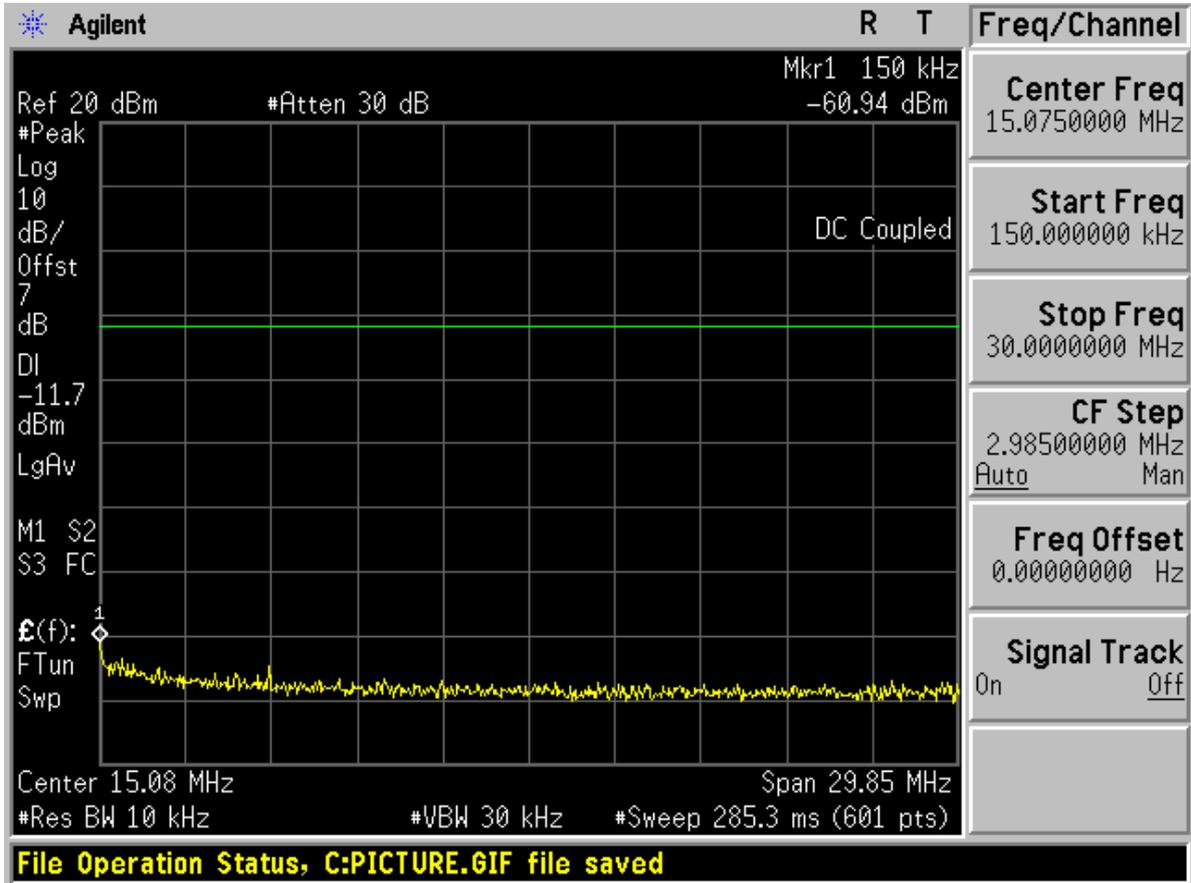


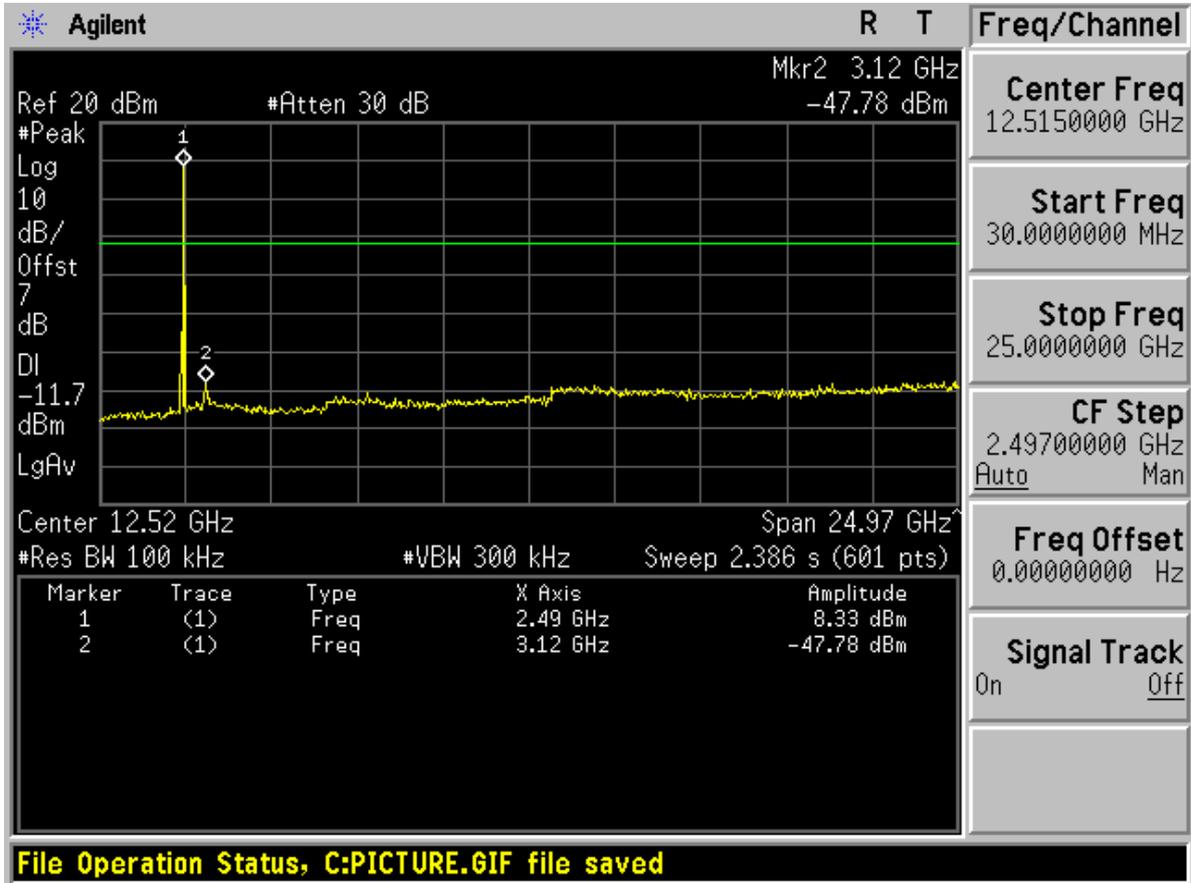




Channel 78

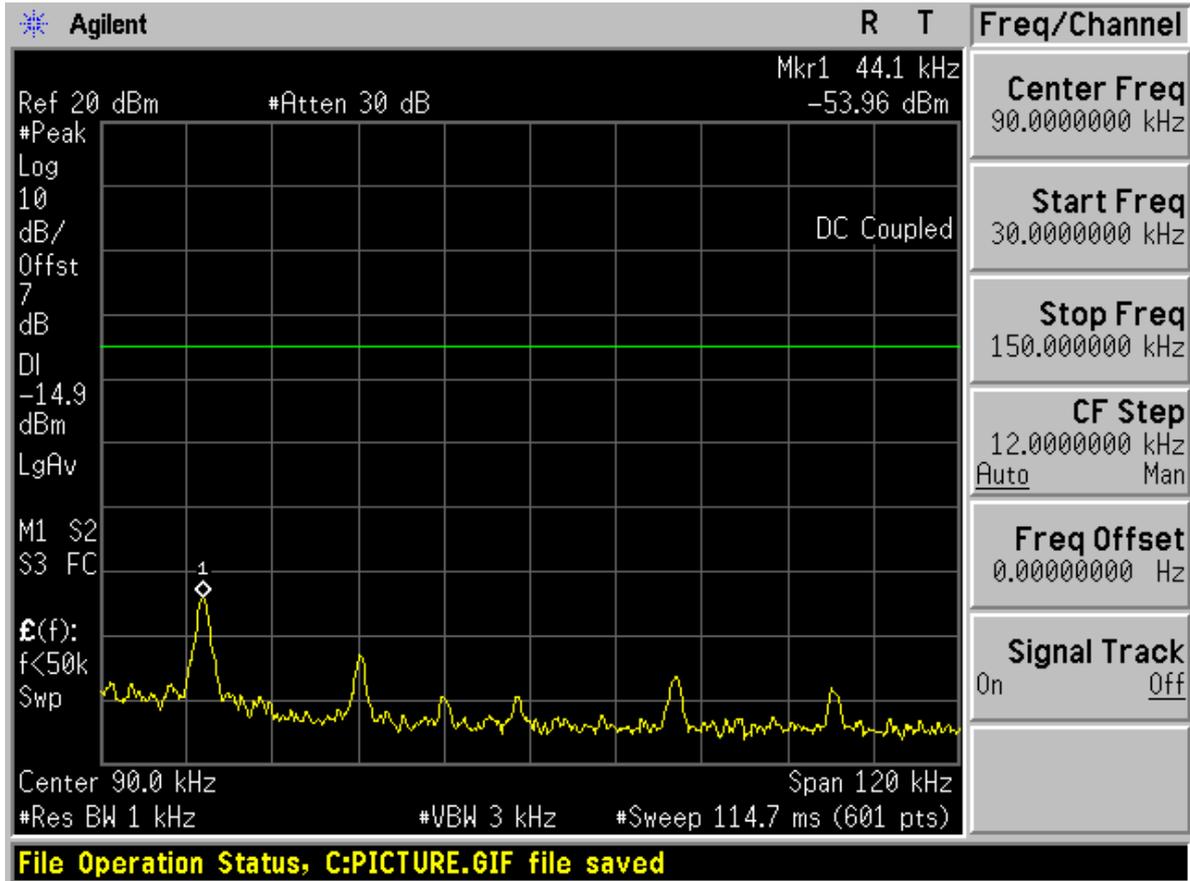


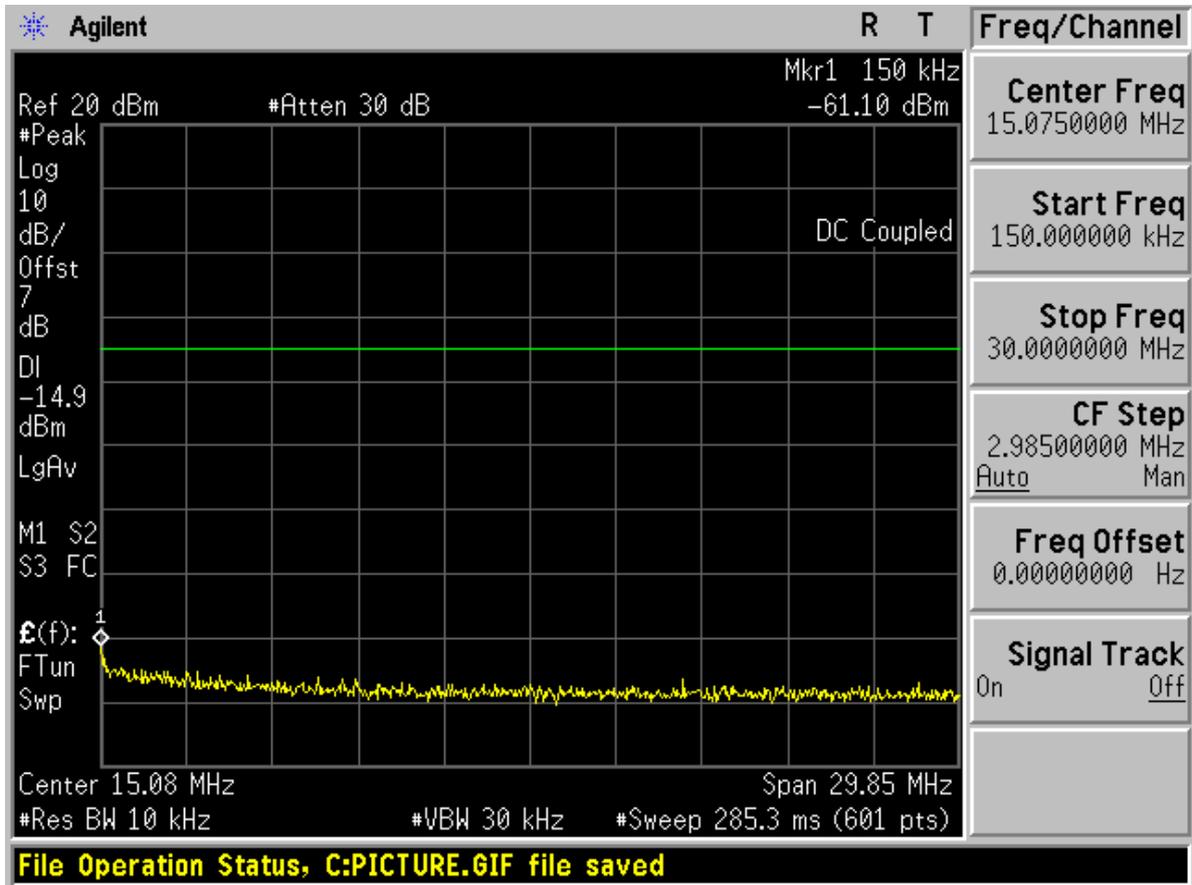


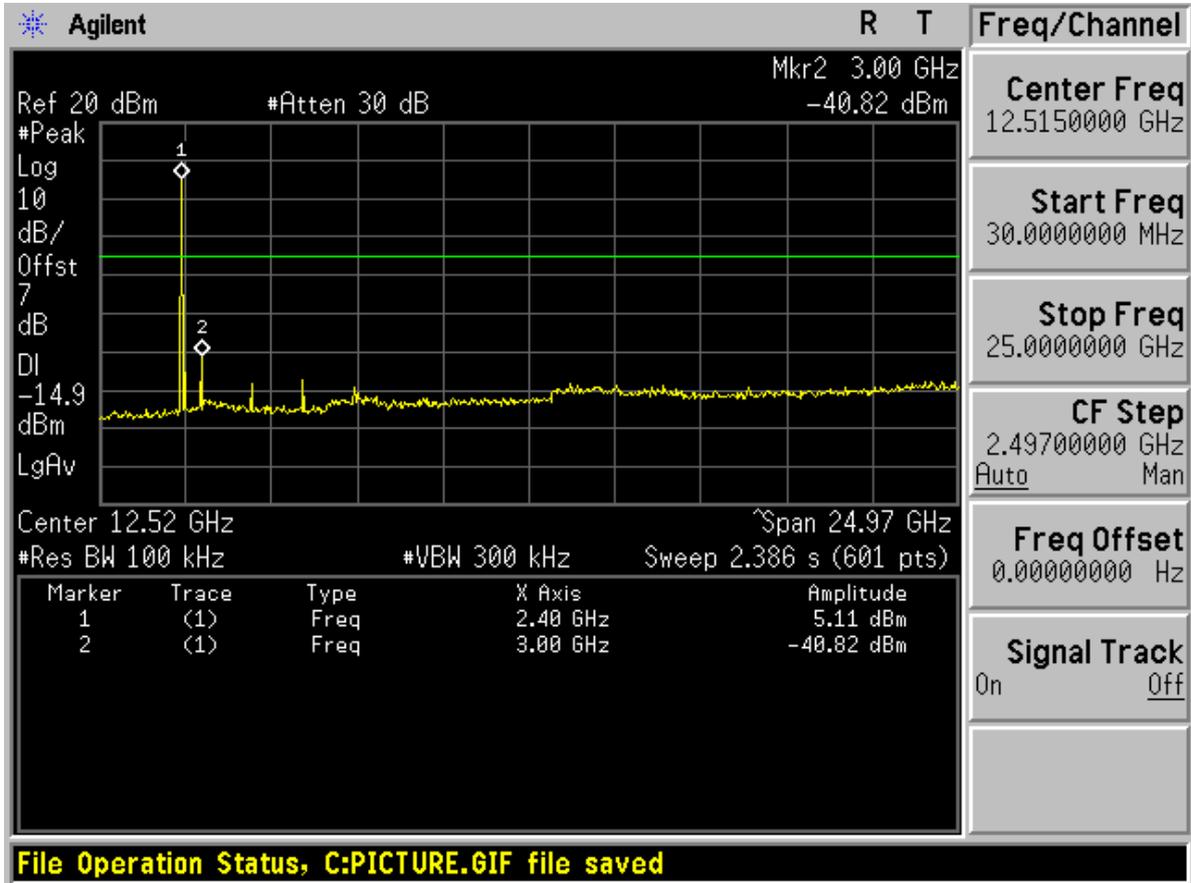




Modulation: 8DPSK Channel 0

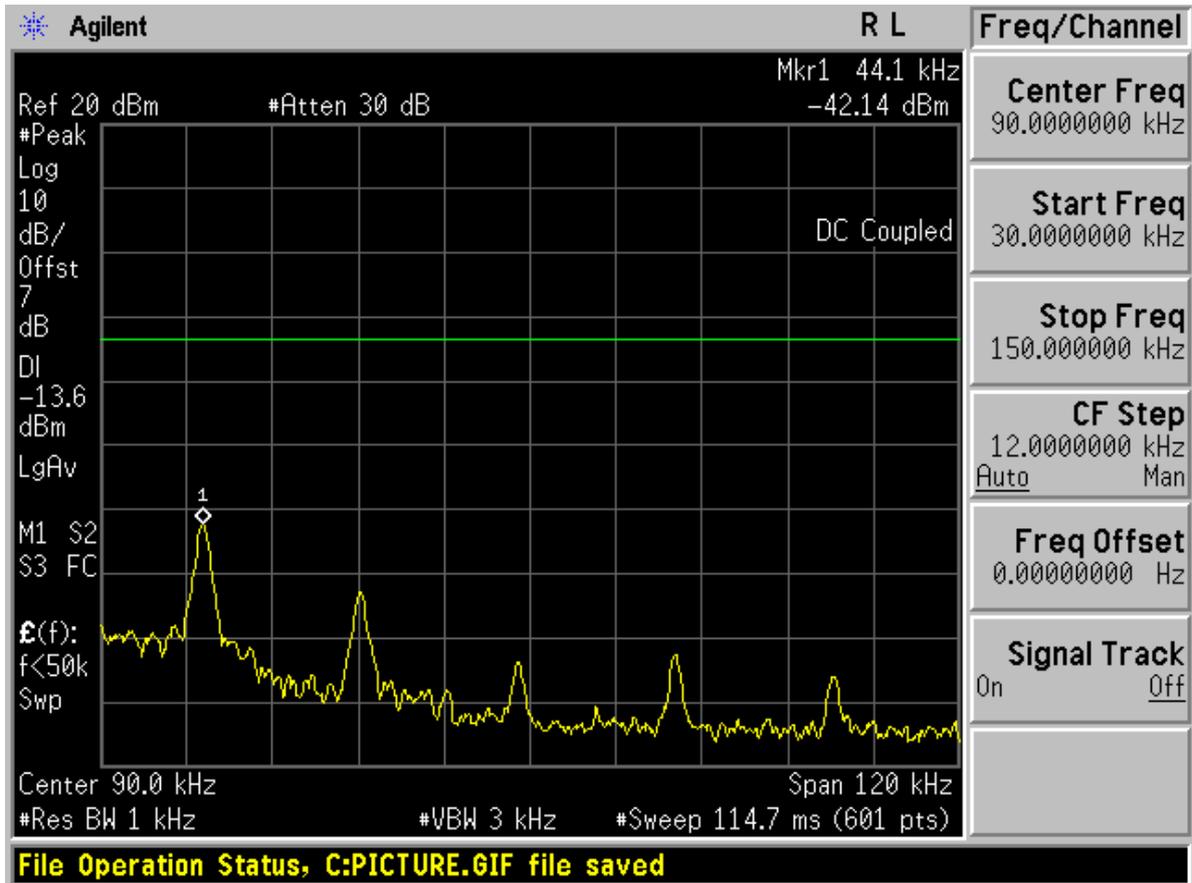


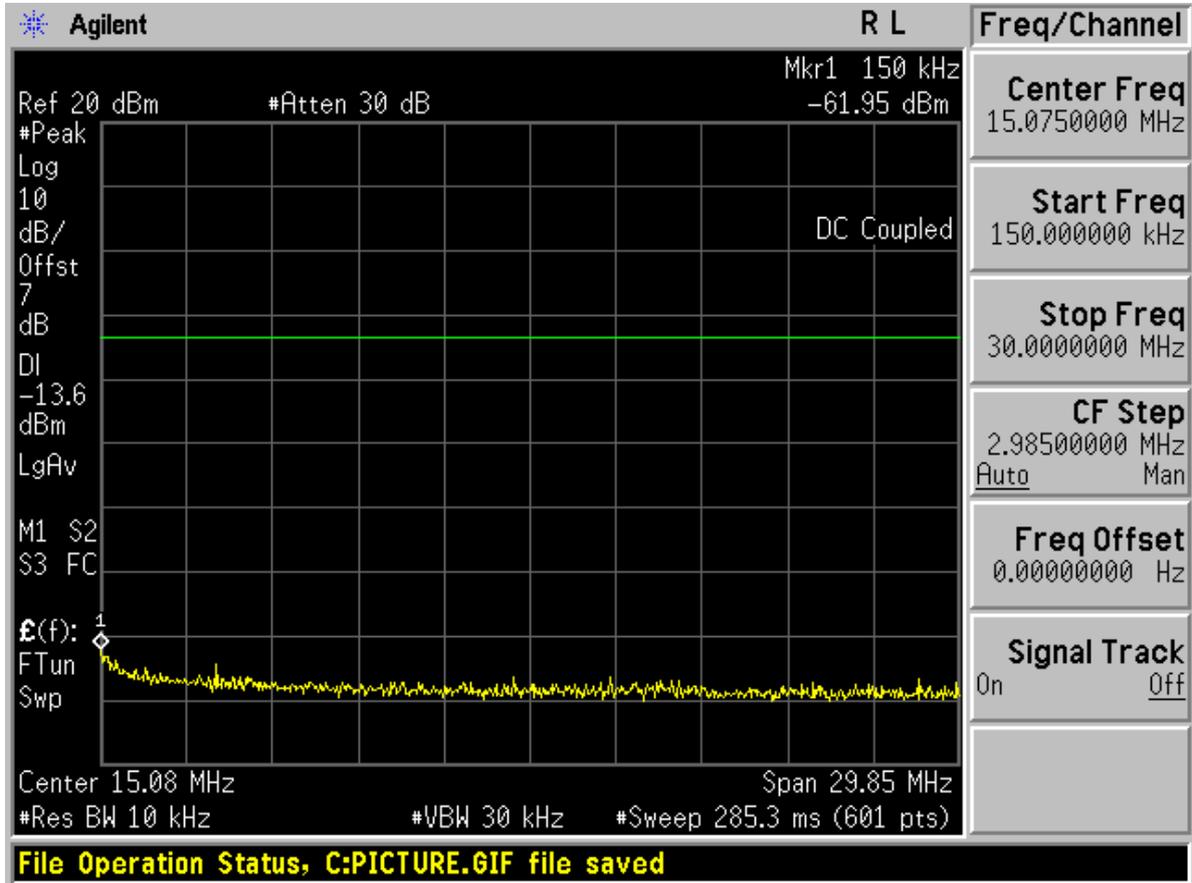


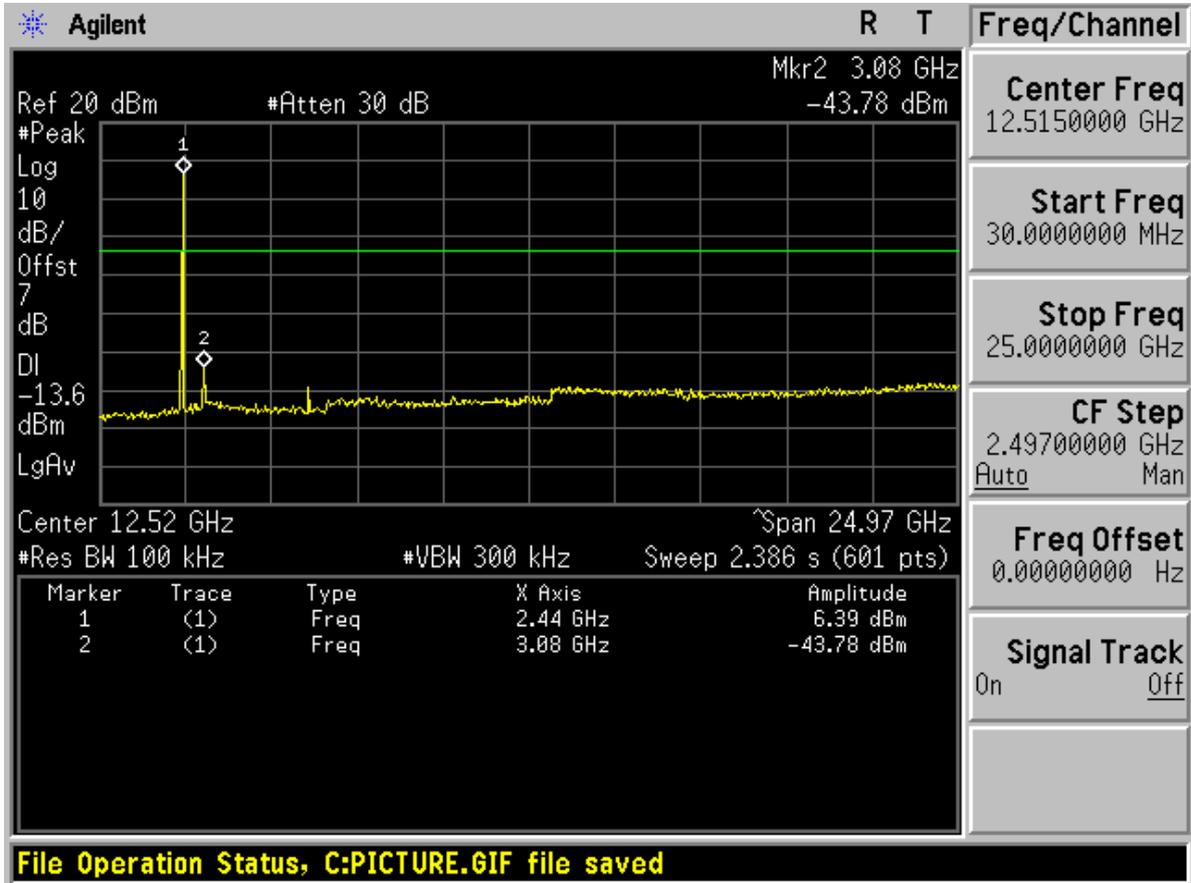




Channel 40

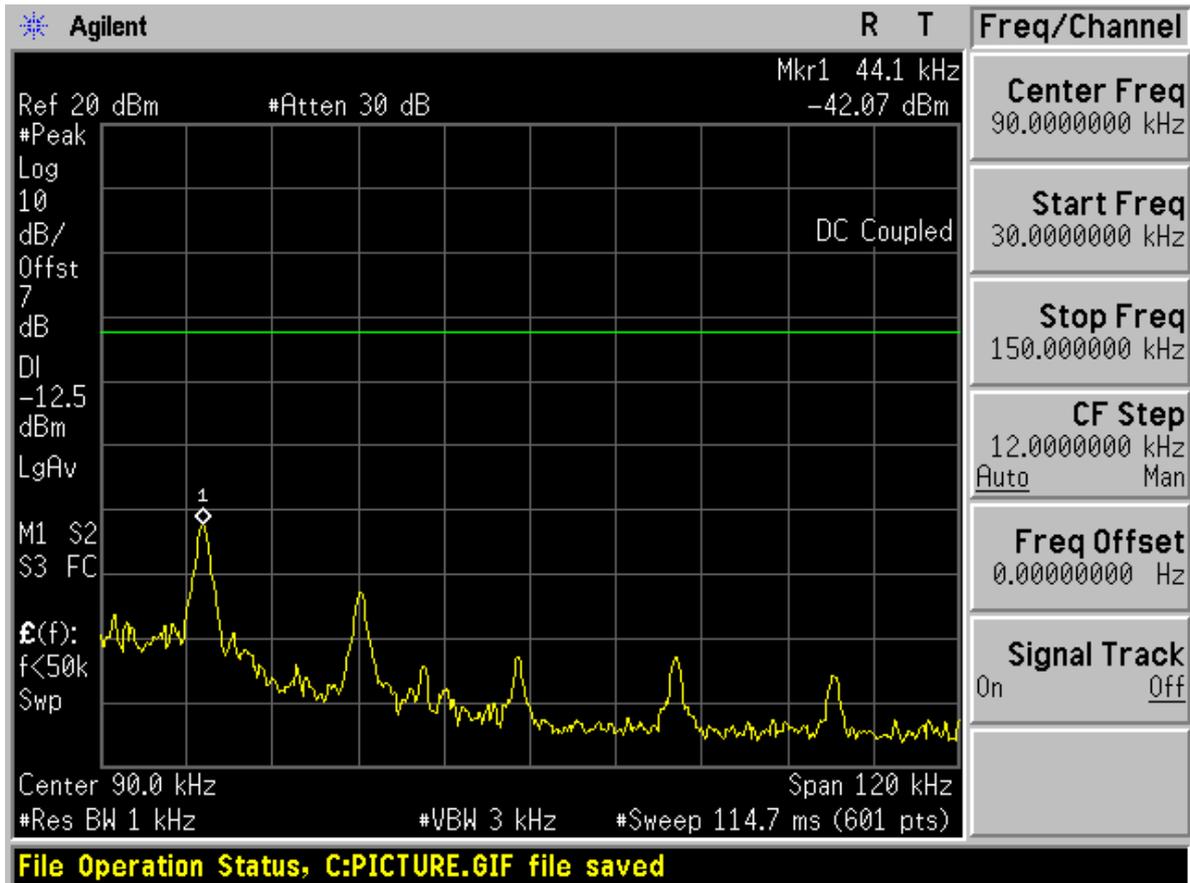


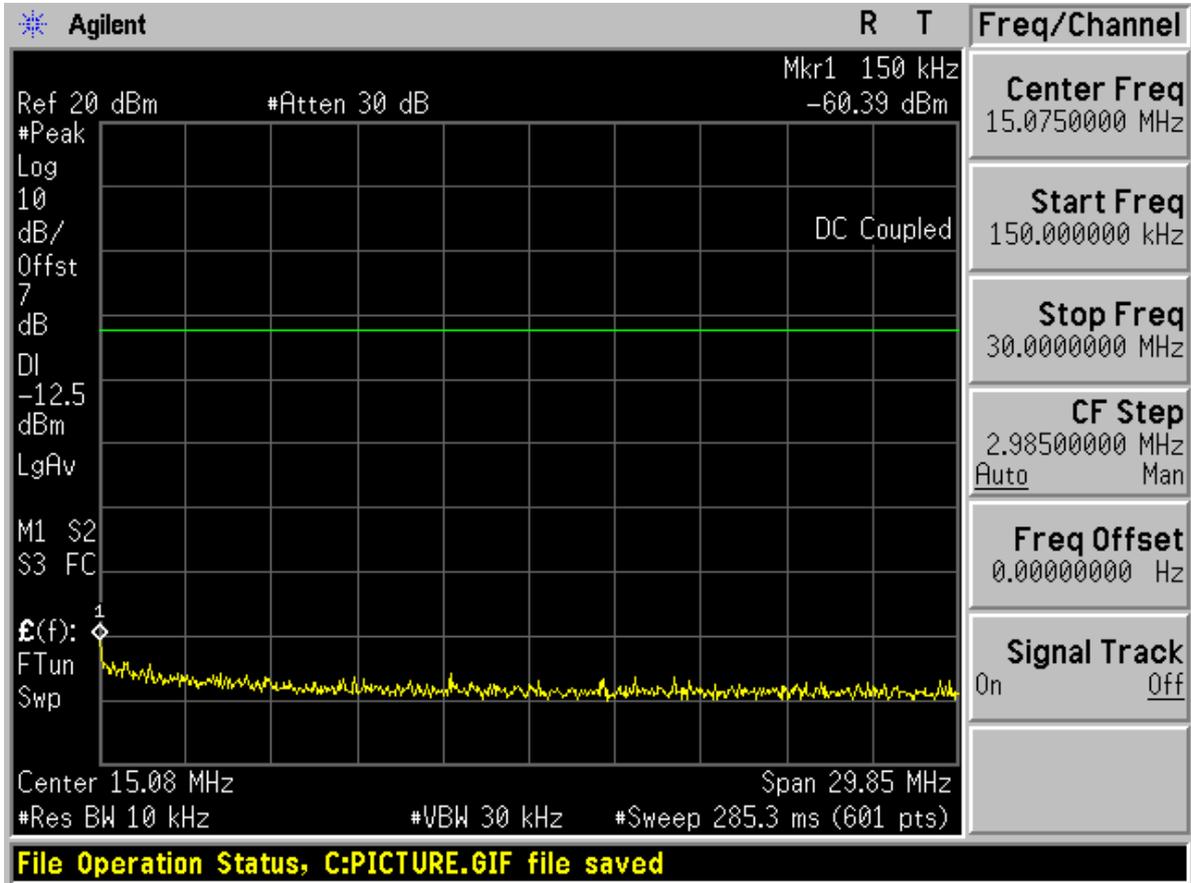


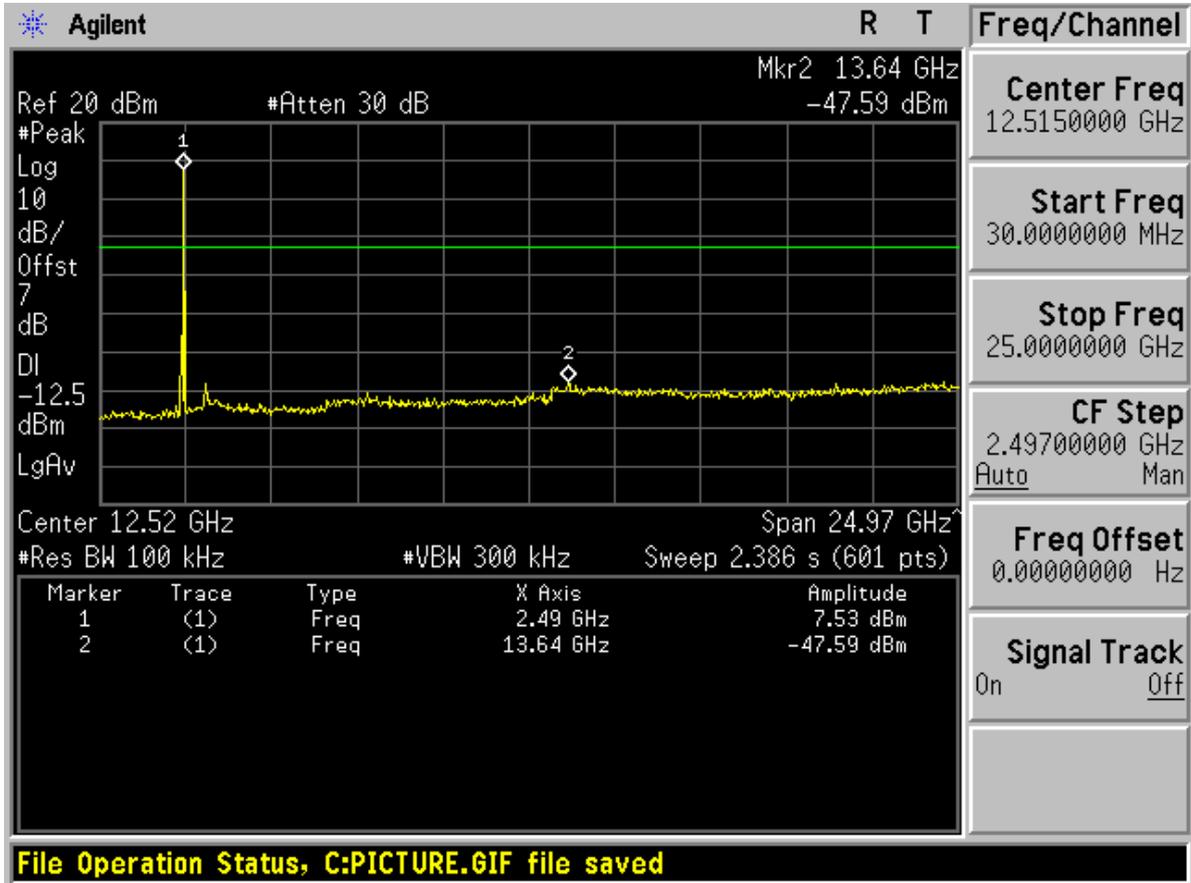




Channel 78









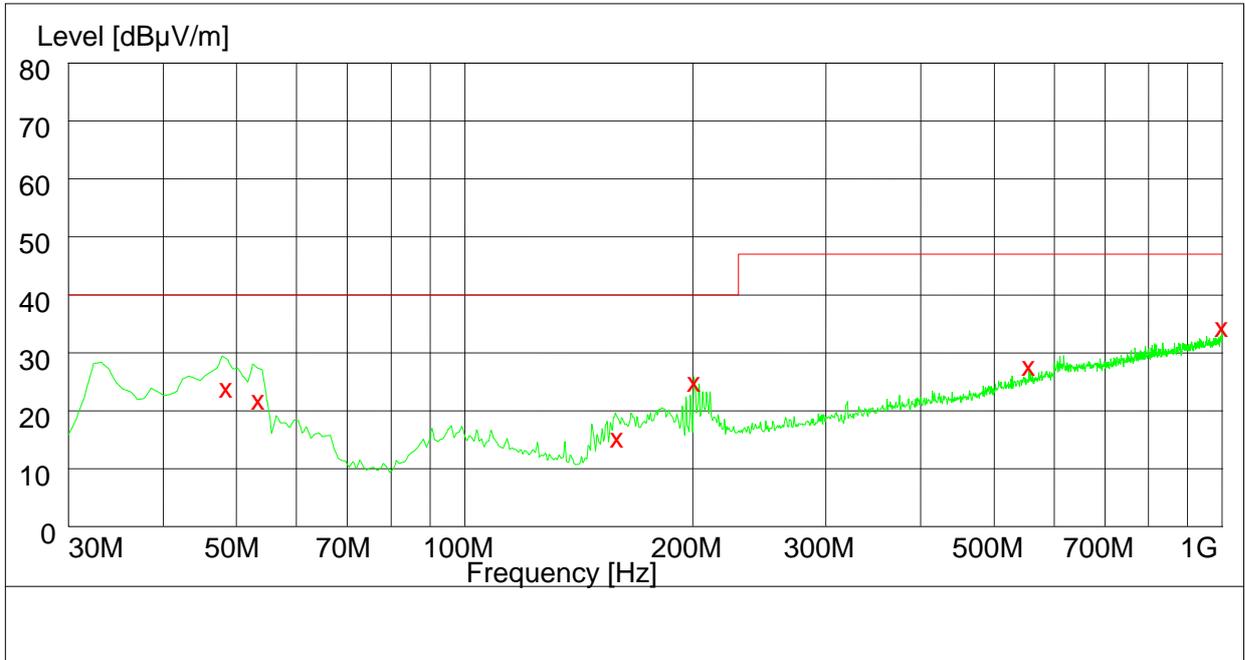
Appendix H

Radiated spurious emission

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



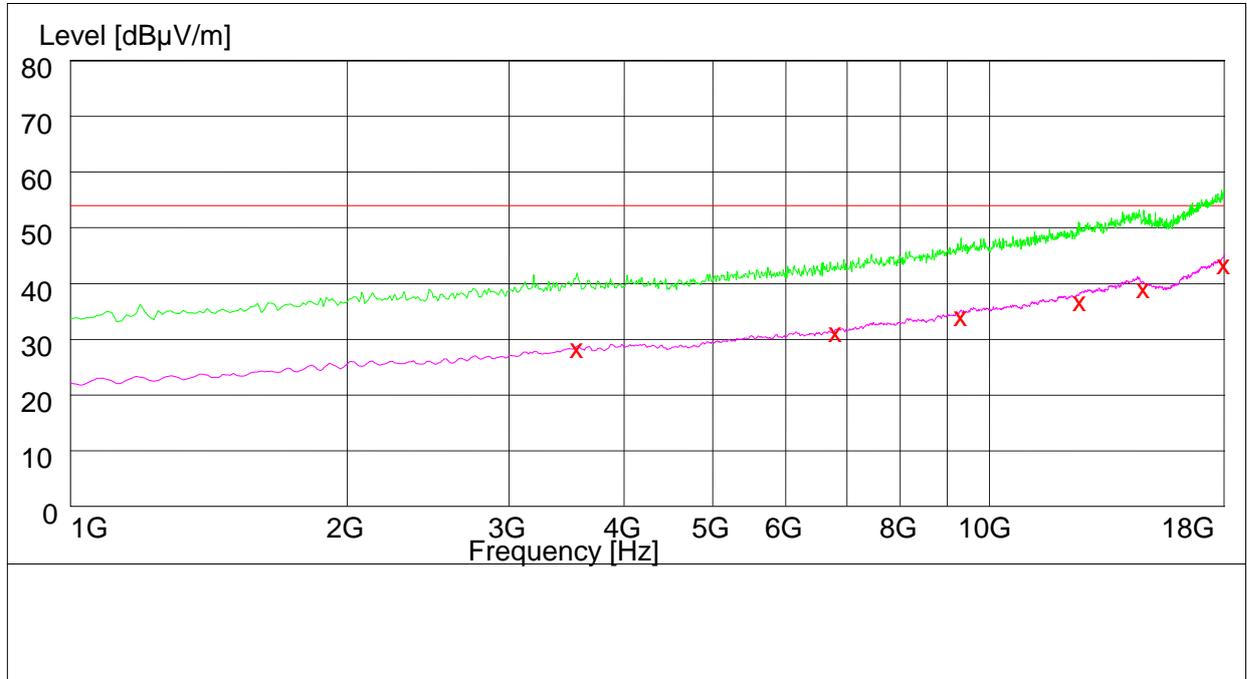
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
48.448000	25.00	12.9	40.0	15.0	100.0	335.00	VERTICAL
53.456000	23.00	12.7	40.0	17.0	126.0	21.00	VERTICAL
158.940000	16.50	9.5	40.0	23.5	187.0	333.00	VERTICAL
201.320000	26.10	12.1	40.0	13.9	131.0	230.00	HORIZONTAL
556.068000	29.00	21.5	47.0	18.0	198.0	44.00	HORIZONTAL
999.704000	35.70	27.2	47.0	11.3	200.0	44.00	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
3559.000000	28.20	4.0	54.0	25.8	100.0	92.00	HORIZONTAL
6801.000000	31.20	10.1	54.0	22.8	124.0	216.00	VERTICAL
9303.500000	34.30	15.2	54.0	19.7	110.0	182.00	HORIZONTAL
12540.000000	37.50	19.2	54.0	16.5	101.0	116.00	VERTICAL
14721.000000	39.20	21.8	54.0	14.8	141.0	0.00	VERTICAL
17999.000000	43.90	27.7	54.0	10.1	178.0	7.00	HORIZONTAL

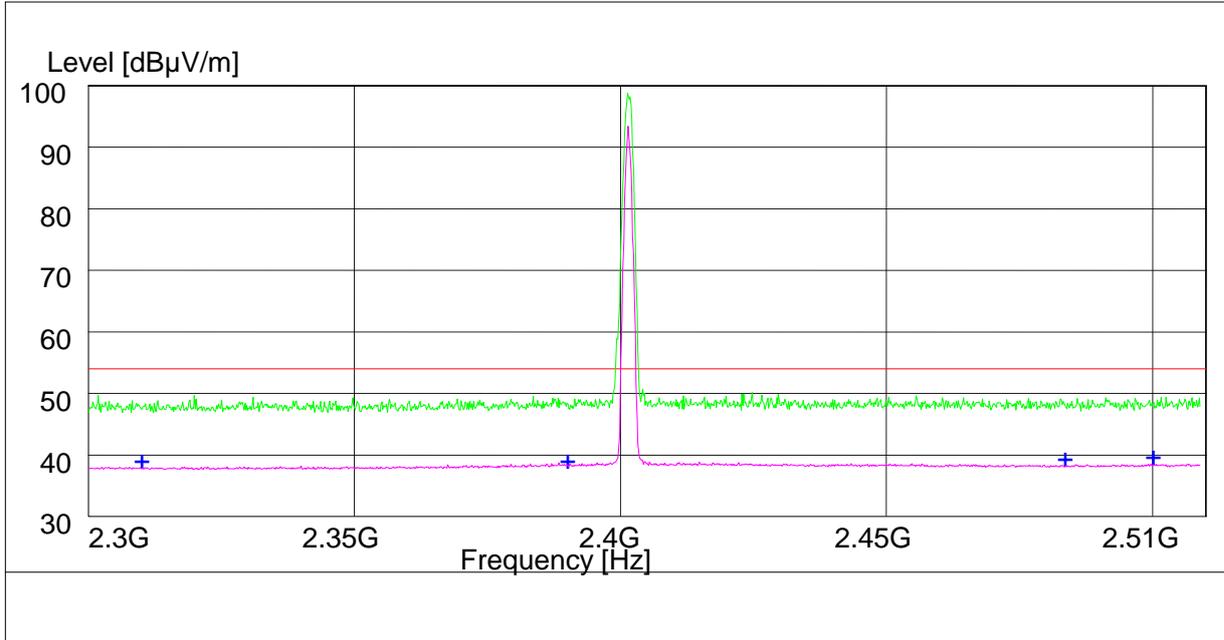


18GHz to 26GHz

Note: No peak found in pre- test.



2.30GHz to 2.51GHz

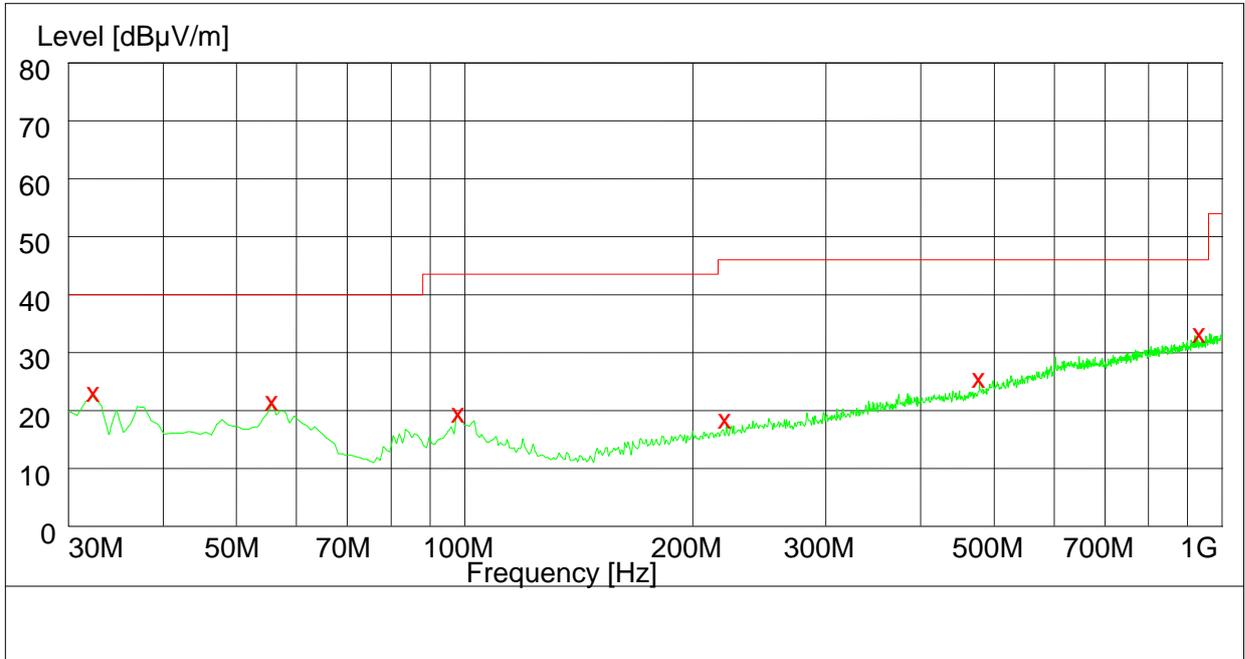


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	39.80	33.3	54.0	14.2	151.0	312.00	HORIZONTAL
2390.000000	39.10	33.5	54.0	14.9	127.0	228.00	VERTICAL
2483.500000	38.70	33.7	54.0	15.3	142.0	108.00	HORIZONTAL
2500.000000	40.50	33.7	54.0	13.5	102.0	218.00	VERTICAL



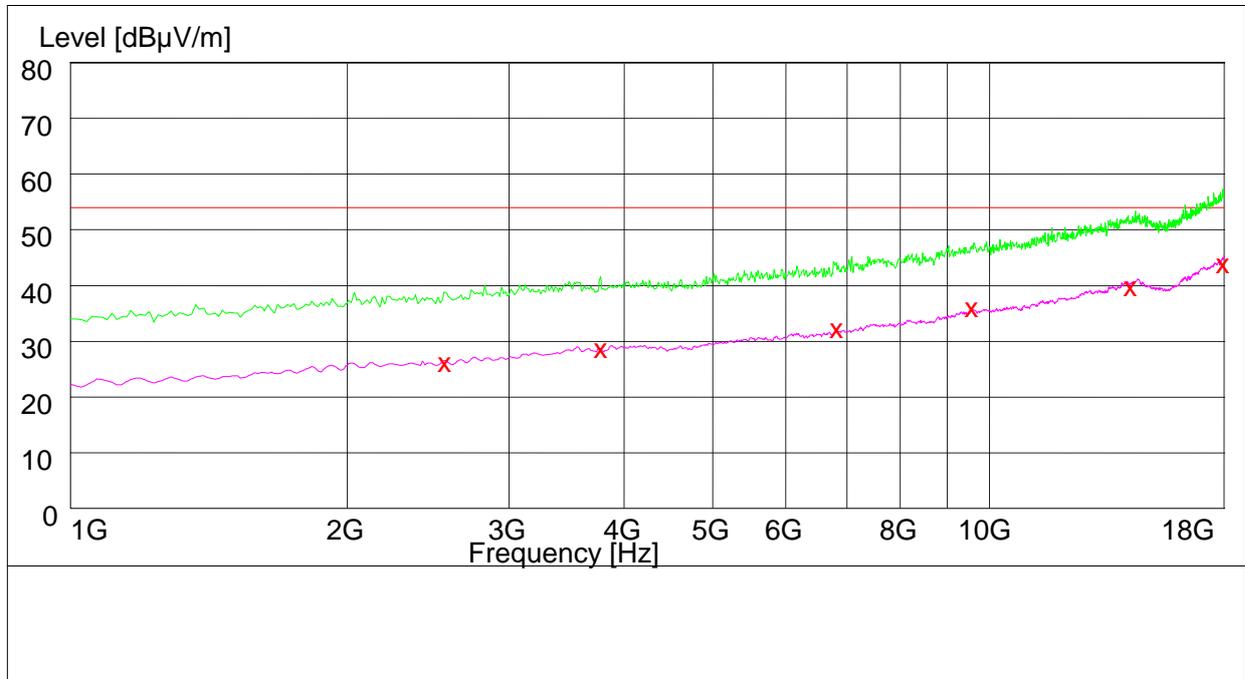
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.100000	22.10	11.7	40.0	17.9	107.0	217.00	VERTICAL
56.700000	20.60	12.7	40.0	19.4	104.0	309.00	VERTICAL
100.200000	19.90	12.9	43.5	23.1	115.0	250.00	HORIZONTAL
221.192000	19.70	13.0	46.0	26.3	118.0	245.00	HORIZONTAL
478.168000	26.80	19.6	46.0	19.2	156.0	128.00	HORIZONTAL
925.068000	34.50	26.5	46.0	11.5	105.0	115.00	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
2556.000000	26.00	0.4	54.0	28.0	130.0	112.00	HORIZONTAL
3777.500000	28.00	4.5	54.0	26.0	112.0	323.00	VERTICAL
6823.500000	31.40	10.3	54.0	22.6	124.0	285.00	HORIZONTAL
9577.000000	34.90	16.0	54.0	19.1	198.0	274.00	VERTICAL
14238.500000	39.60	21.6	54.0	14.4	160.0	205.00	VERTICAL
17970.500000	43.80	27.5	54.0	10.2	185.0	104.00	HORIZONTAL

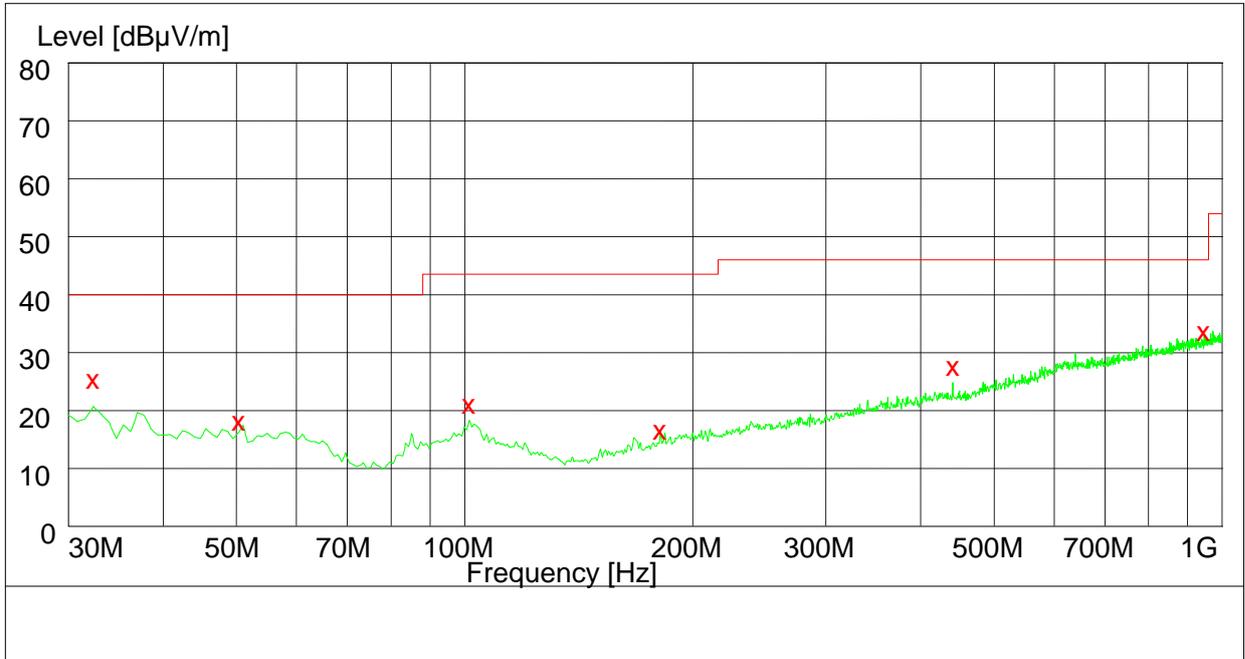


18GHz to 26GHz

Note: No peak found in pre- test.



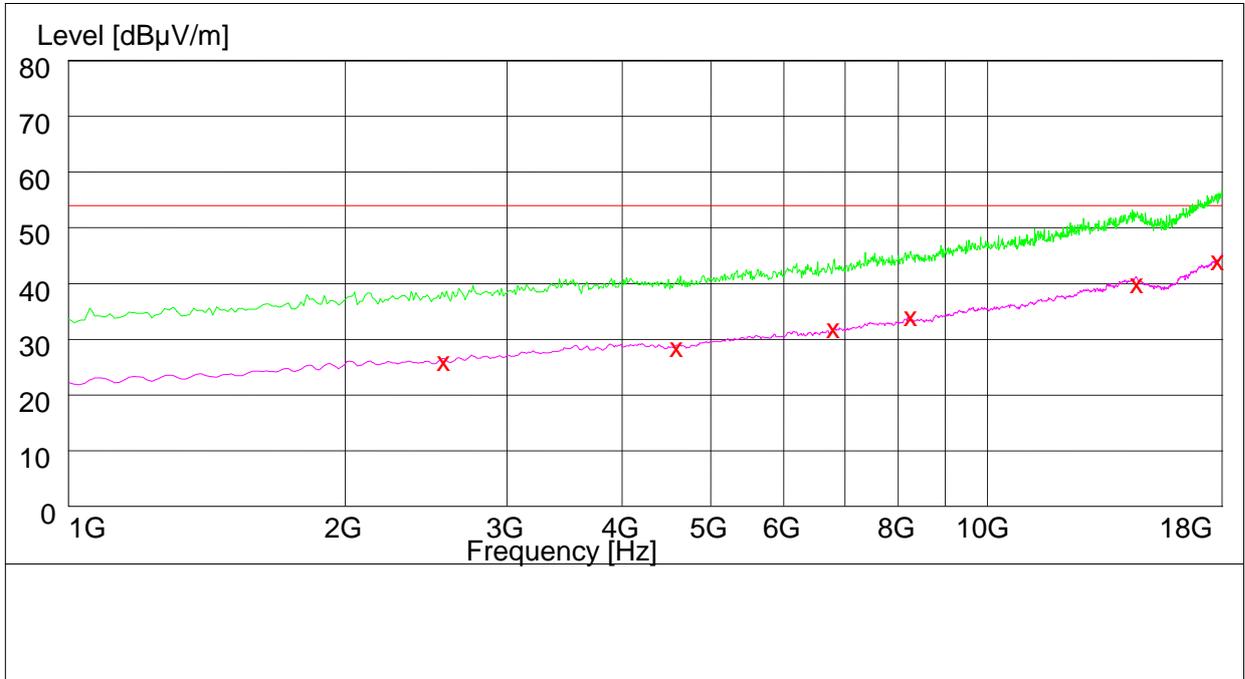
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.201000	24.60	11.7	40.0	15.4	120.0	128.00	VERTICAL
50.200000	19.30	12.8	40.0	20.7	101.0	210.00	VERTICAL
100.800000	21.80	13.1	43.5	21.7	208.0	255.00	HORIZONTAL
181.500000	17.90	11.0	43.5	25.6	124.0	322.00	VERTICAL
440.180000	28.80	18.9	46.0	17.2	104.0	274.00	VERTICAL
946.500000	34.90	26.6	46.0	11.1	107.0	309.00	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
2564.000000	25.90	0.3	54.0	28.1	185.0	212.00	HORIZONTAL
4598.500000	28.50	6.2	54.0	25.5	150.0	273.00	VERTICAL
6806.000000	31.30	10.2	54.0	22.7	160.0	125.00	HORIZONTAL
8257.000000	32.50	12.5	54.0	21.5	121.0	74.00	VERTICAL
14560.000000	39.90	22.5	54.0	14.1	141.0	115.00	VERTICAL
17803.000000	42.80	26.8	54.0	11.2	115.0	154.00	HORIZONTAL

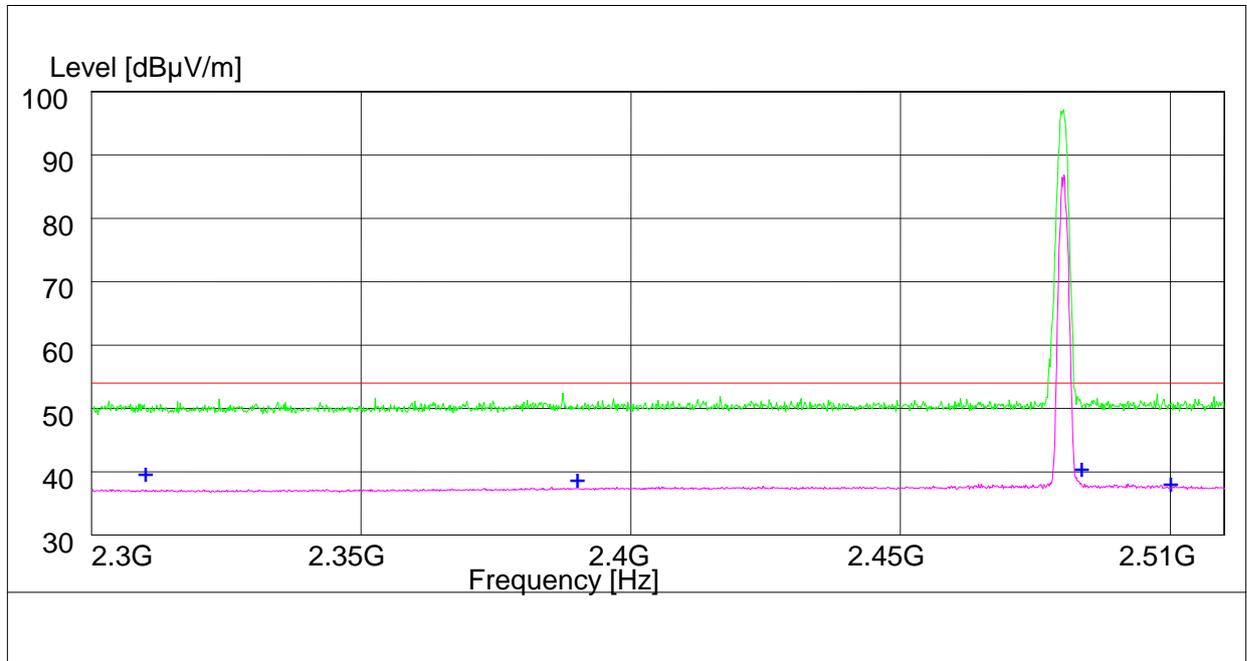


18GHz to 26GHz

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	39.90	33.3	54.0	14.1	108.0	252.00	HORIZONTAL
2390.000000	39.60	33.5	54.0	14.4	122.0	131.00	VERTICAL
2483.500000	40.70	33.7	54.0	13.3	104.0	328.00	HORIZONTAL
2500.000000	38.70	33.8	54.0	15.3	142.0	218.00	VERTICAL



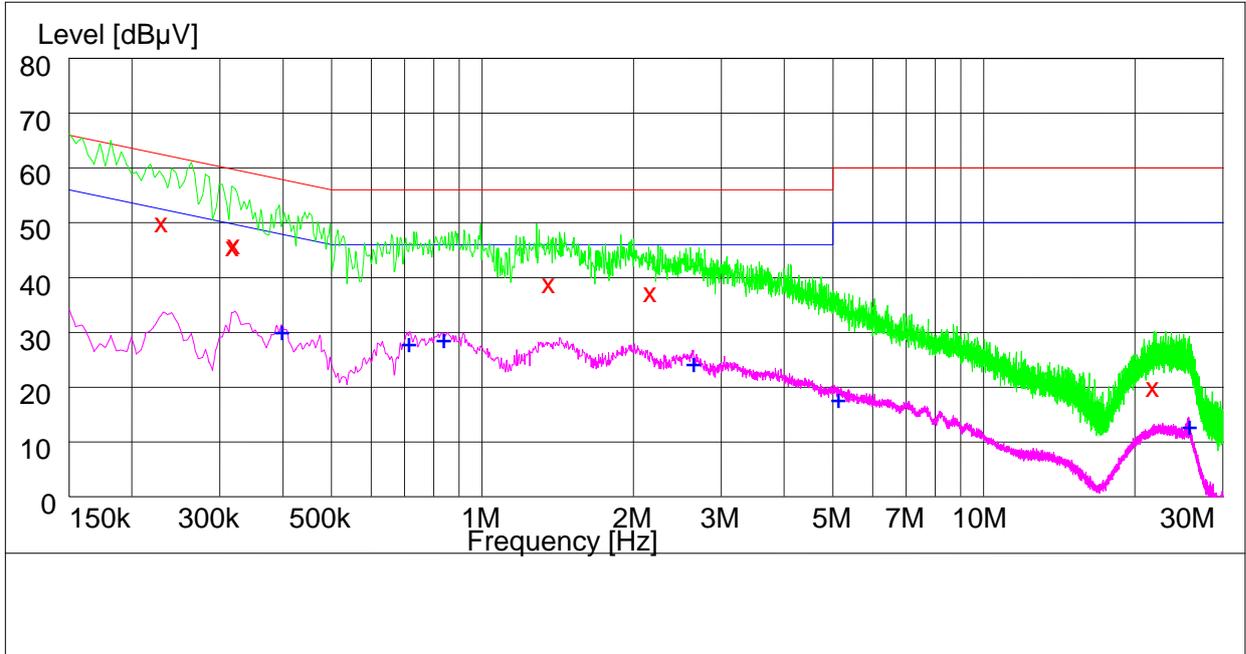
Appendix I

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