



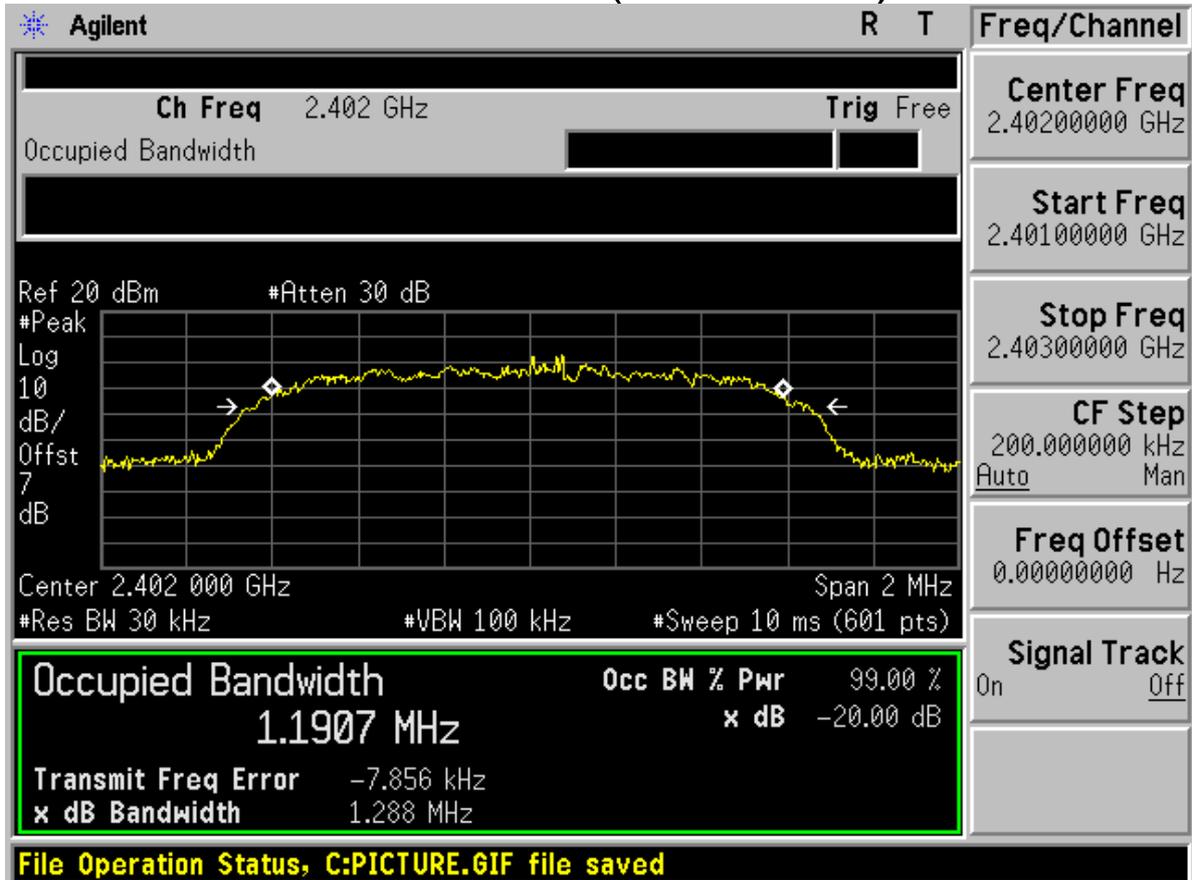
Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



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





Channel 40 (2442MHz)

Agilent
R 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 %
1.1898 MHz	x dB -20.00 dB
Transmit Freq Error -3.771 kHz	
x dB Bandwidth 1.287 MHz	

File Operation Status, C:PICTURE.GIF file saved

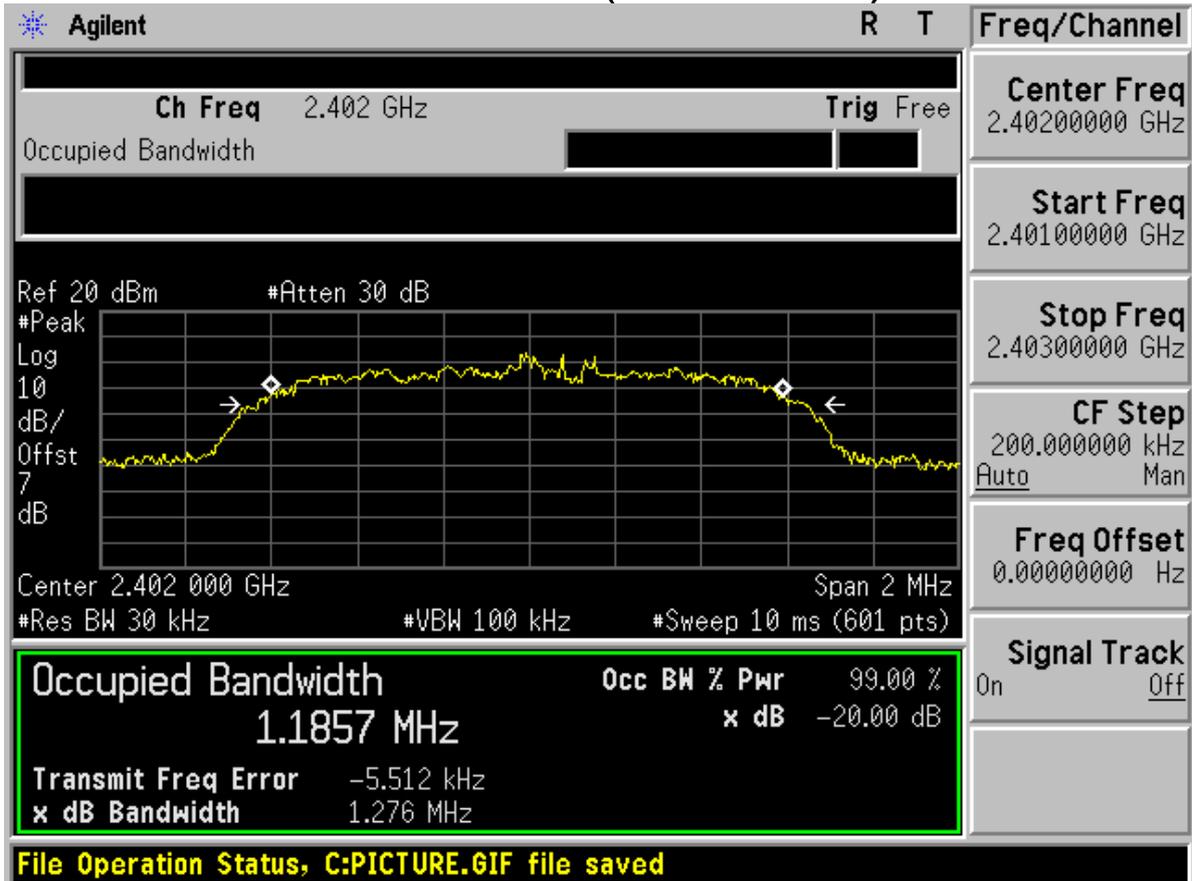


Channel 78 (2480MHz)



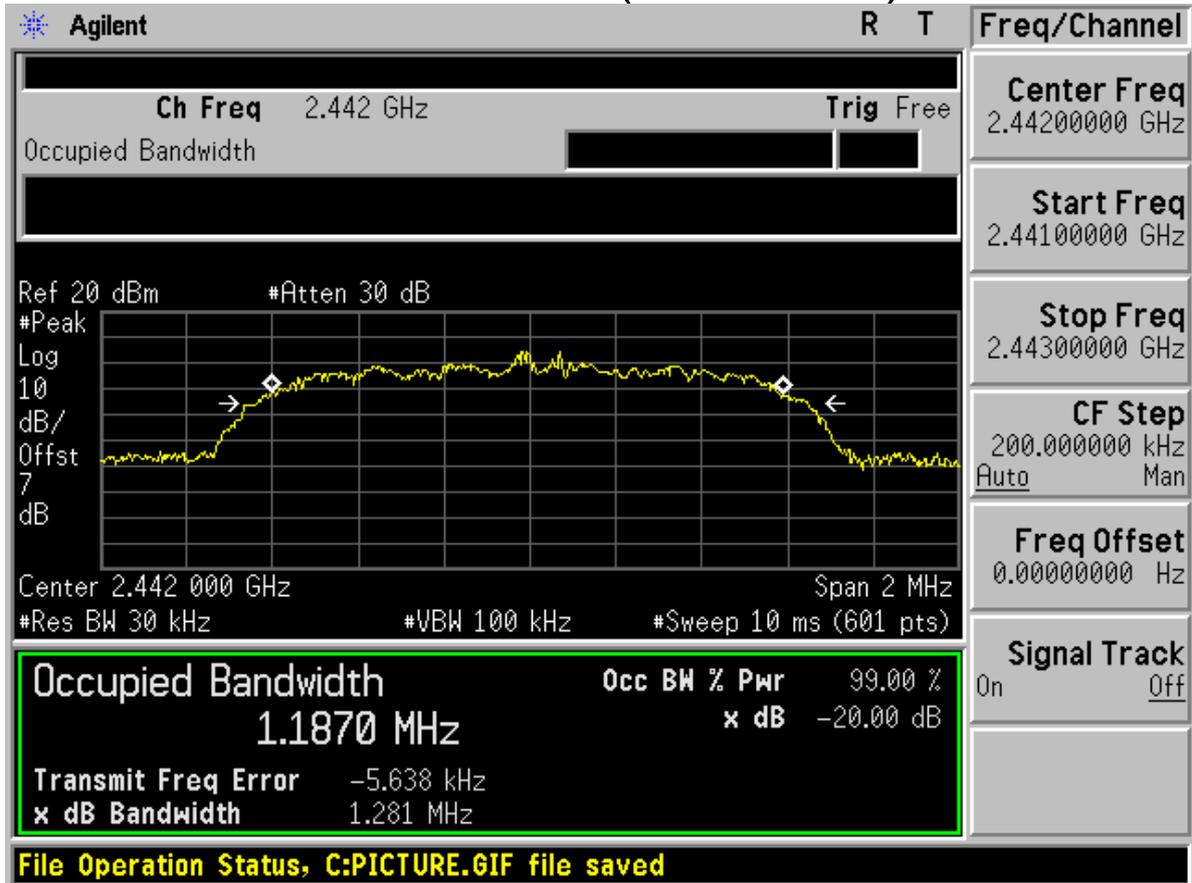


Modulation: 8DPSK Channel 0 (2402MHz)



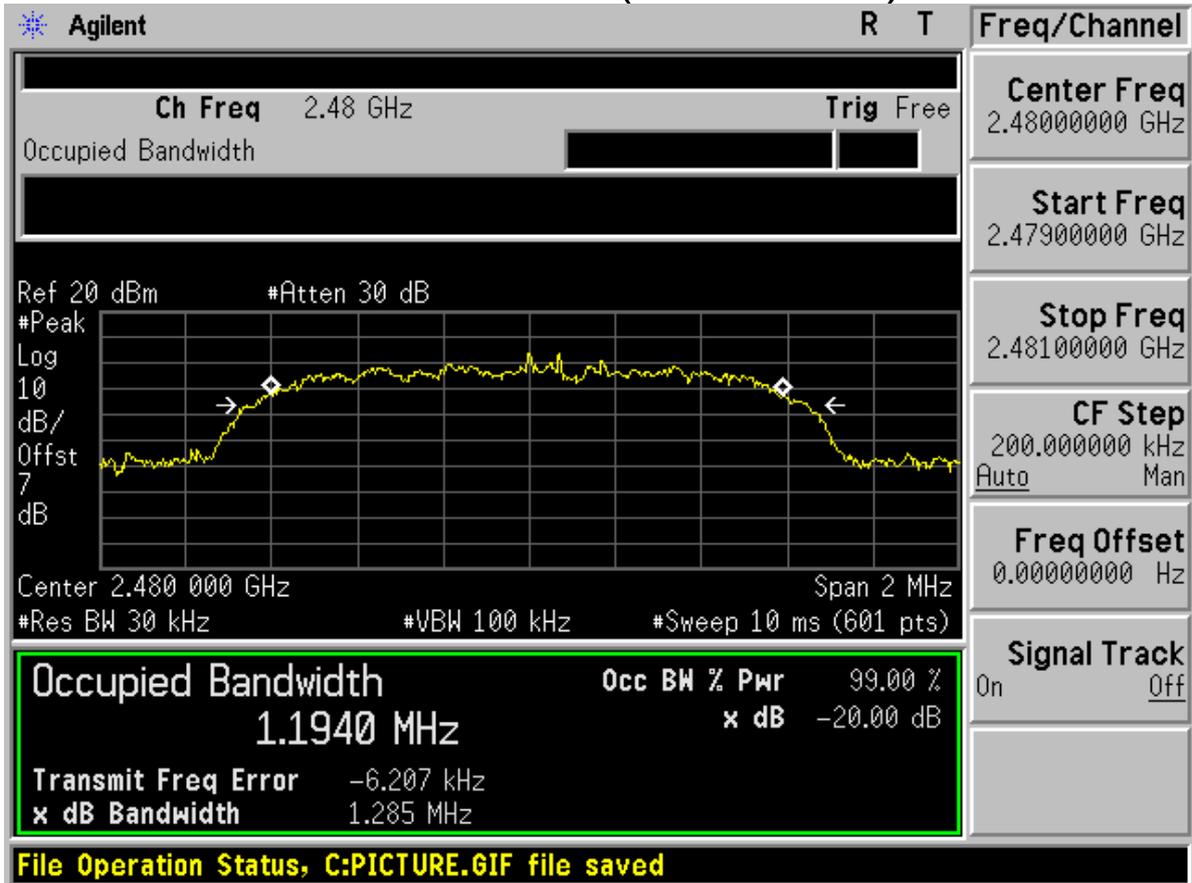


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix B

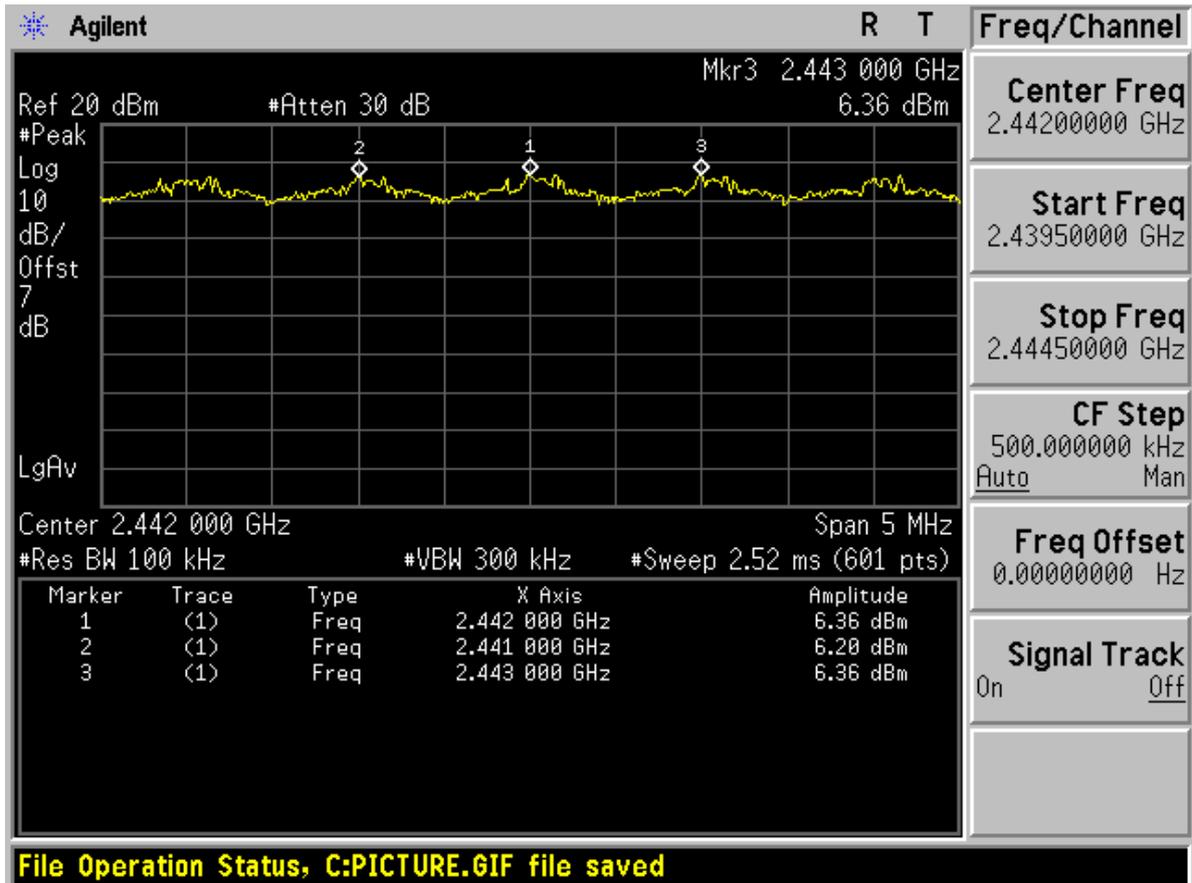
Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



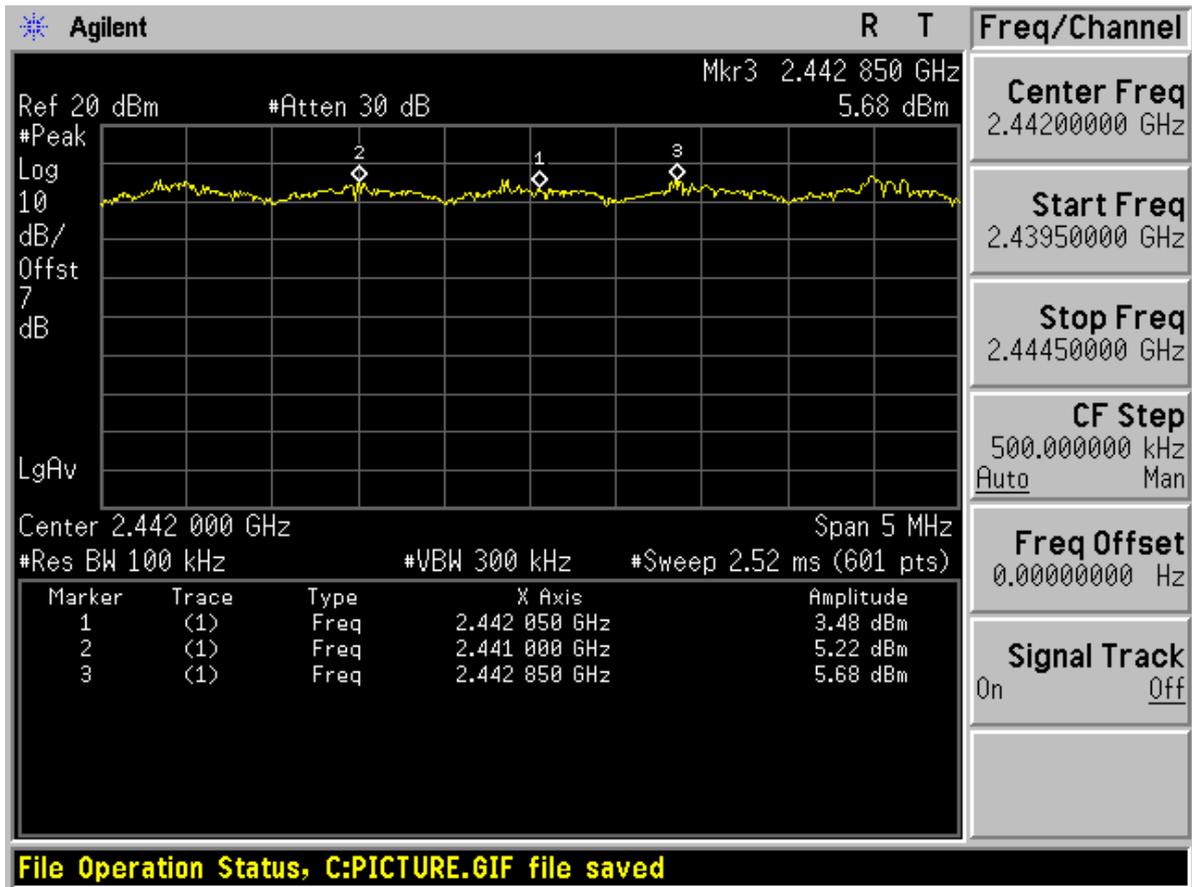
Modulation: $\pi/4$ -DQPSK

Centred at Channel 40





Modulation: 8DPSK Centred at Channel 40





Appendix C

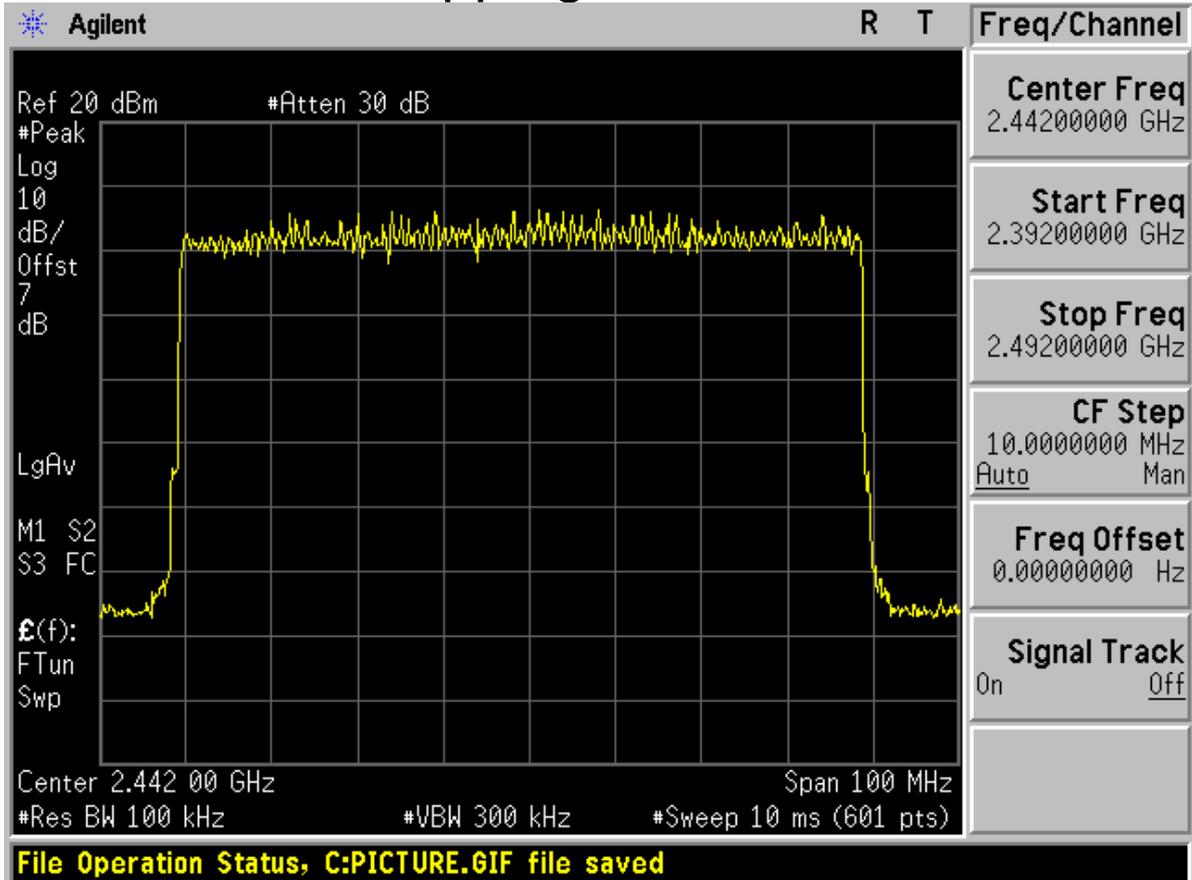
Number of hopping channel

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



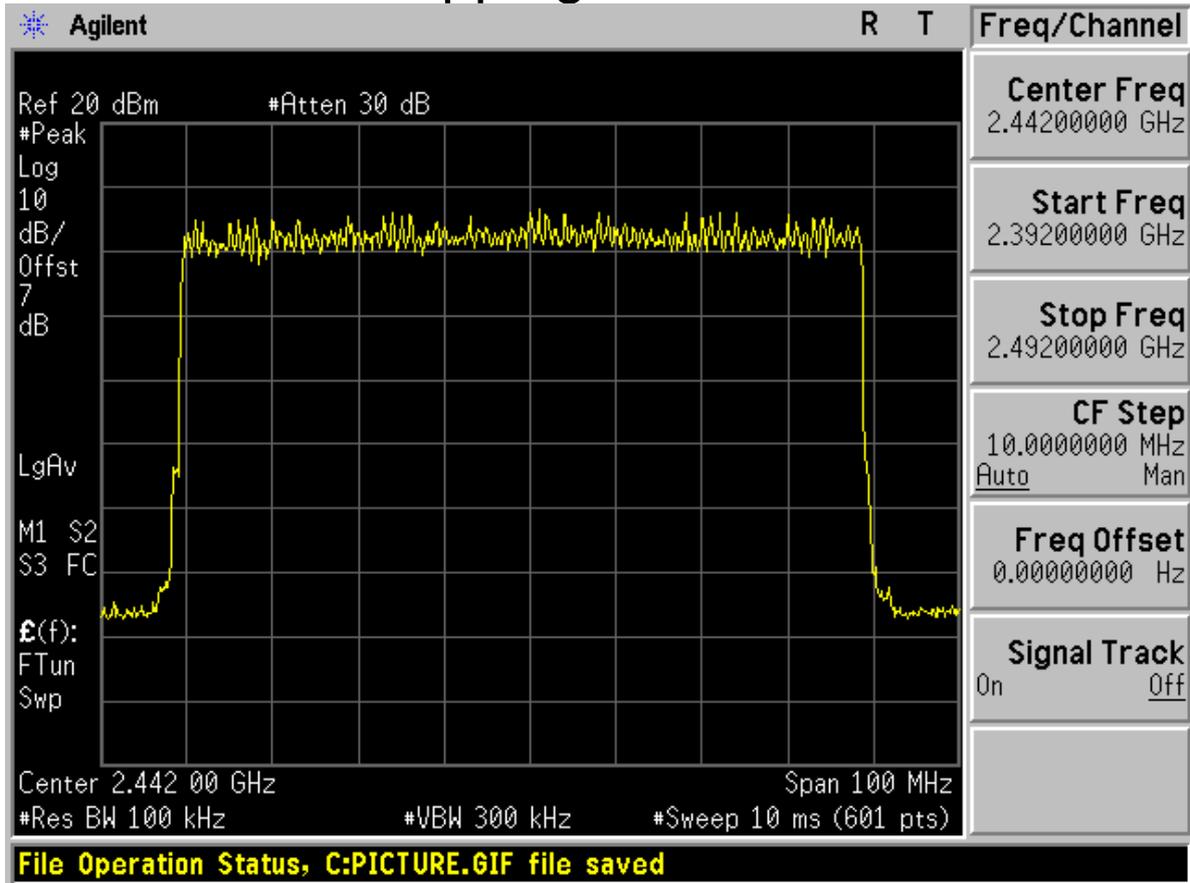
Modulation: $\pi/4$ -DQPSK

Total hopping channels = 79





Modulation: 8DPSK Total hopping channels = 79





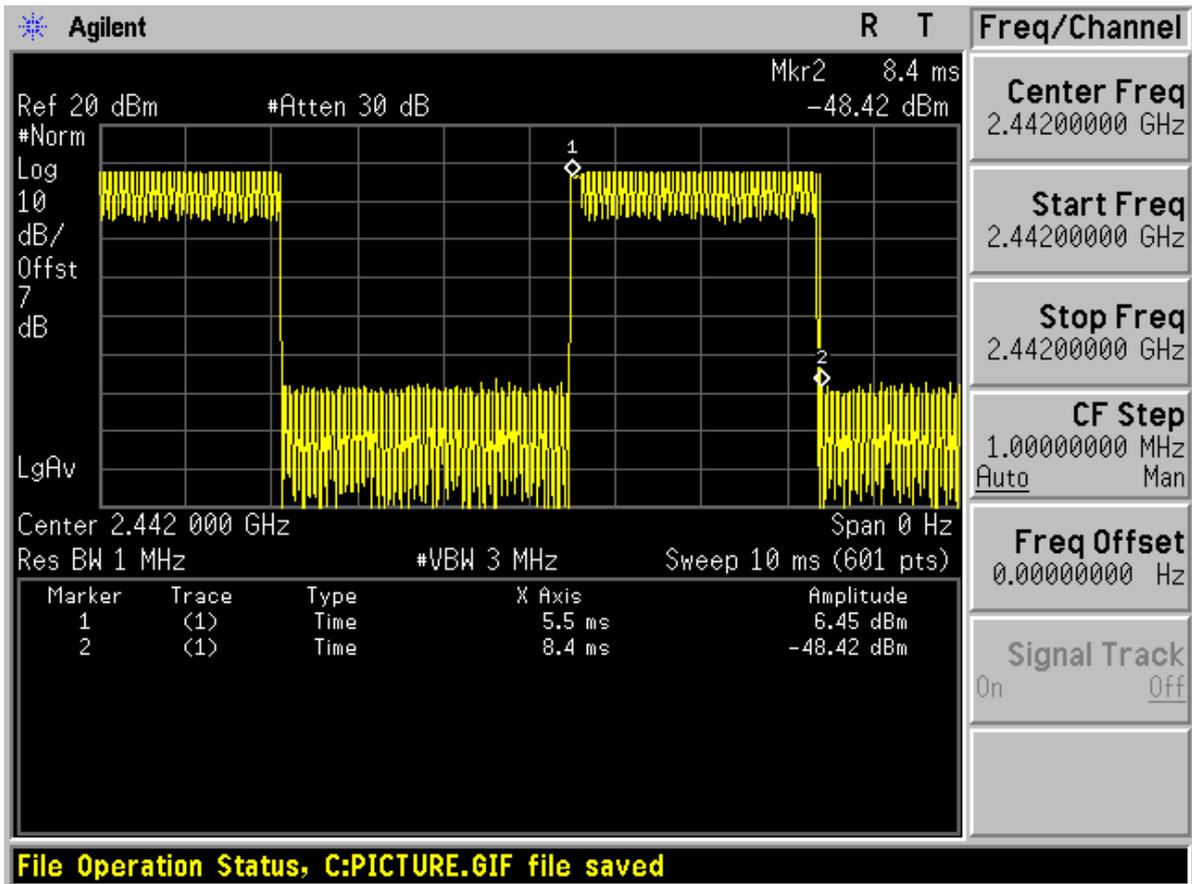
Appendix D

Time of occupancy

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

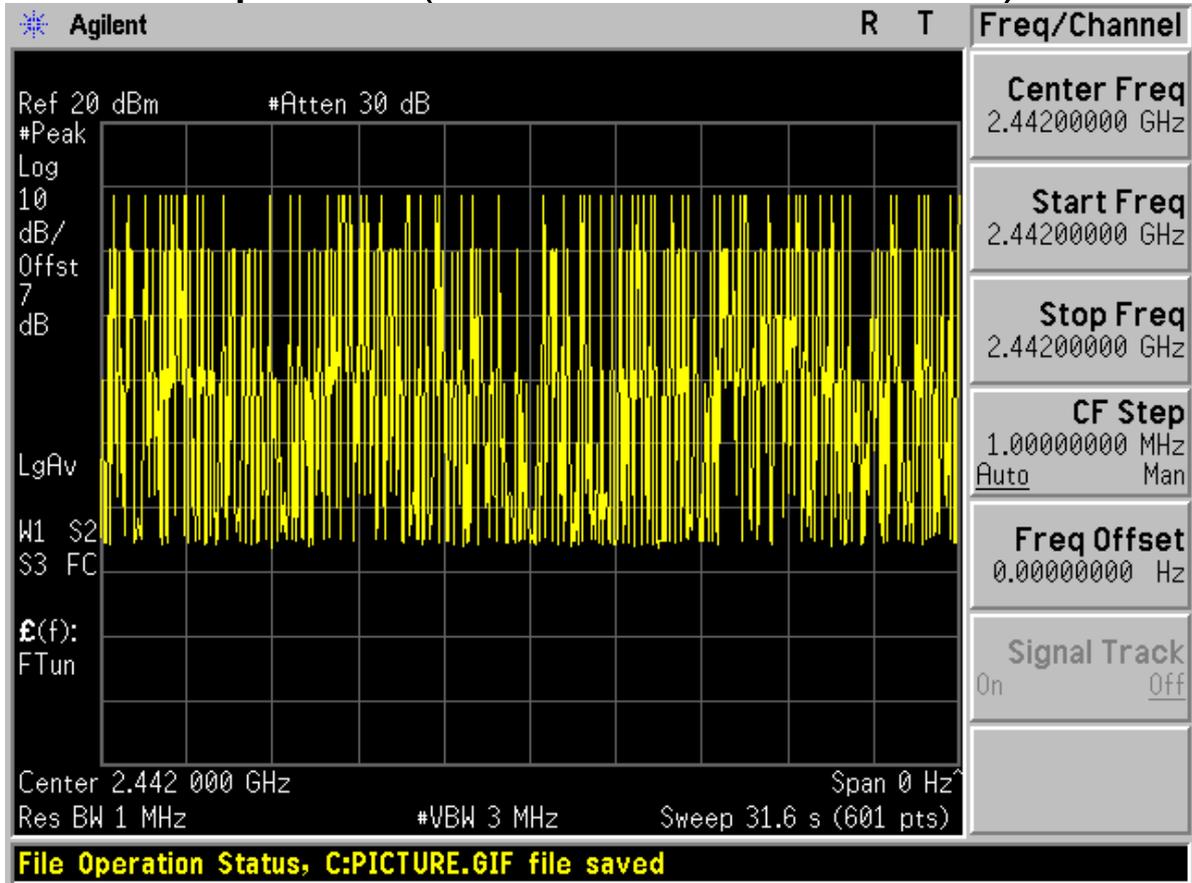


Modulation: $\pi/4$ -DQPSK
A burst (One time slot)





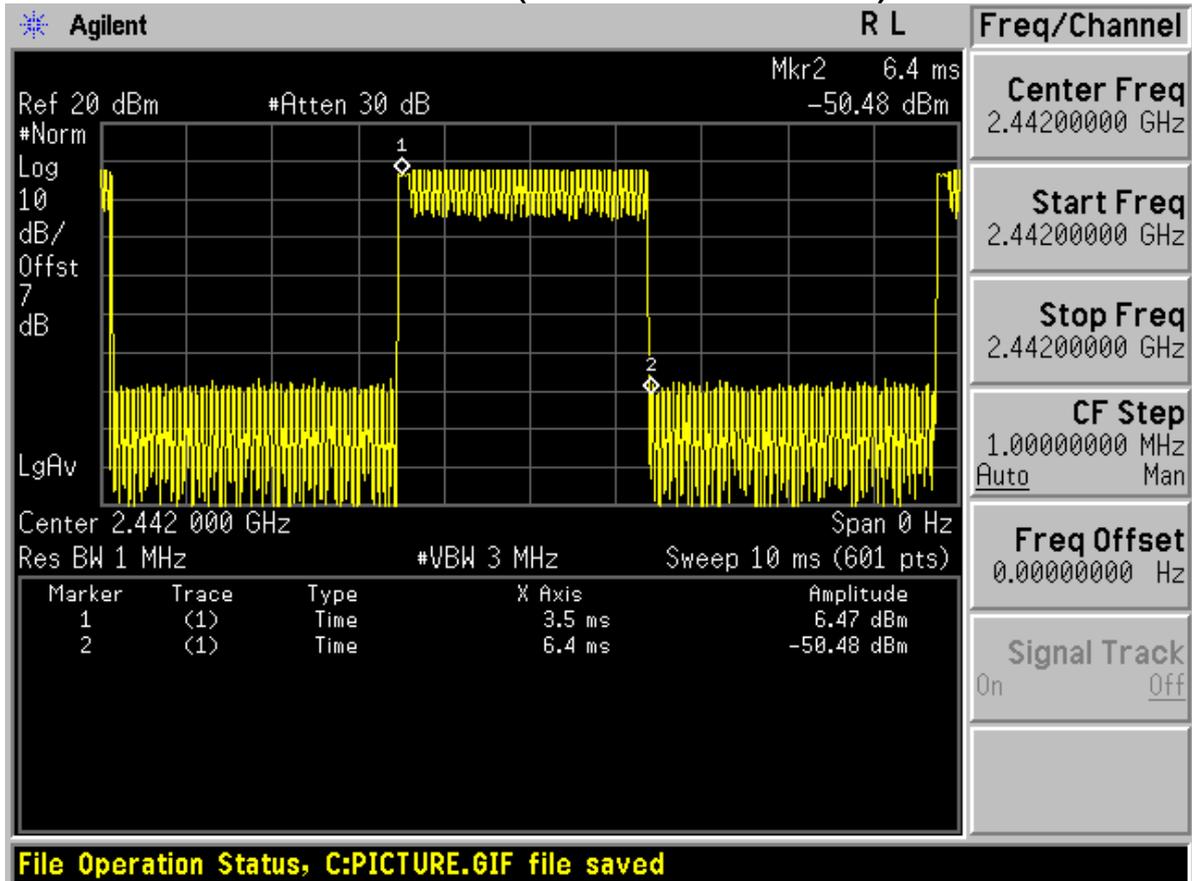
A period (Less than 106.7 burst)





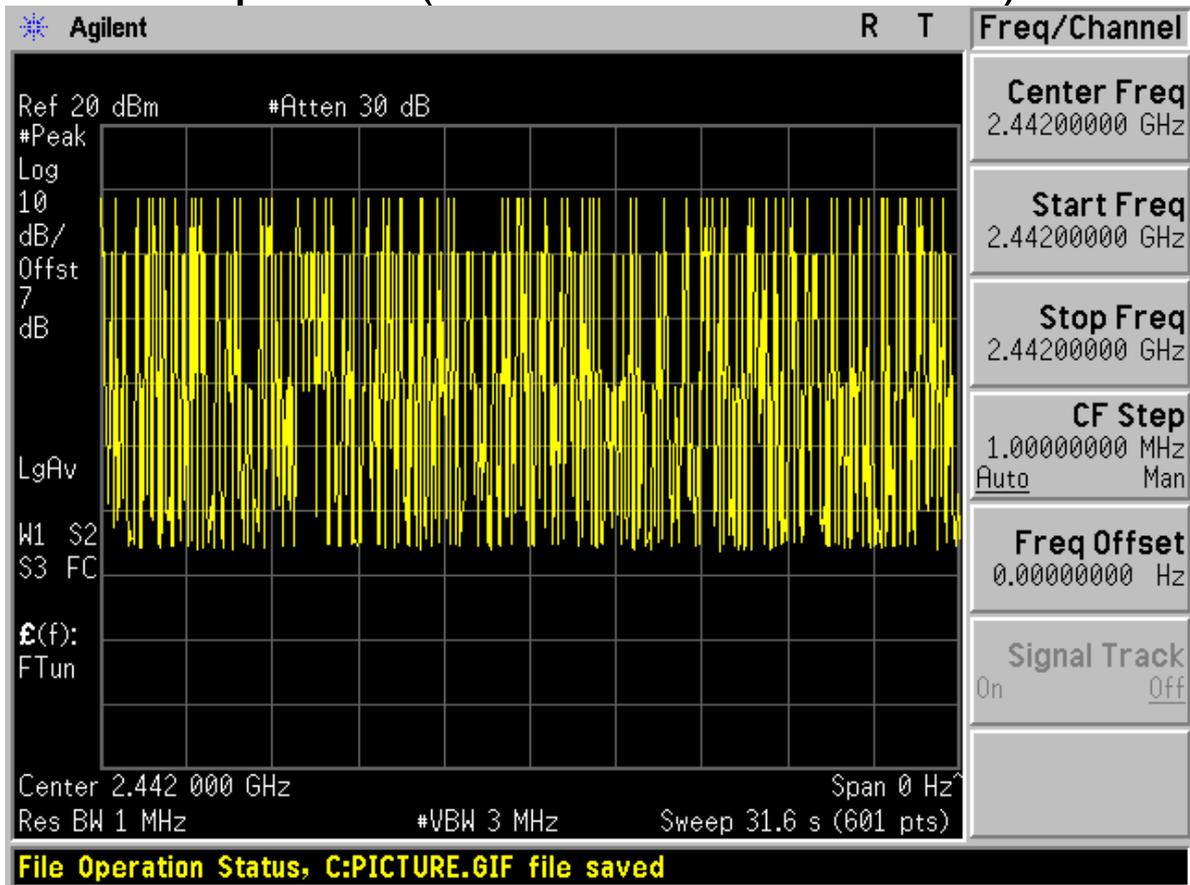
Modulation: 8DPSK

A burst (One time slot)





A period (Less than 106.7 burst)





Appendix E

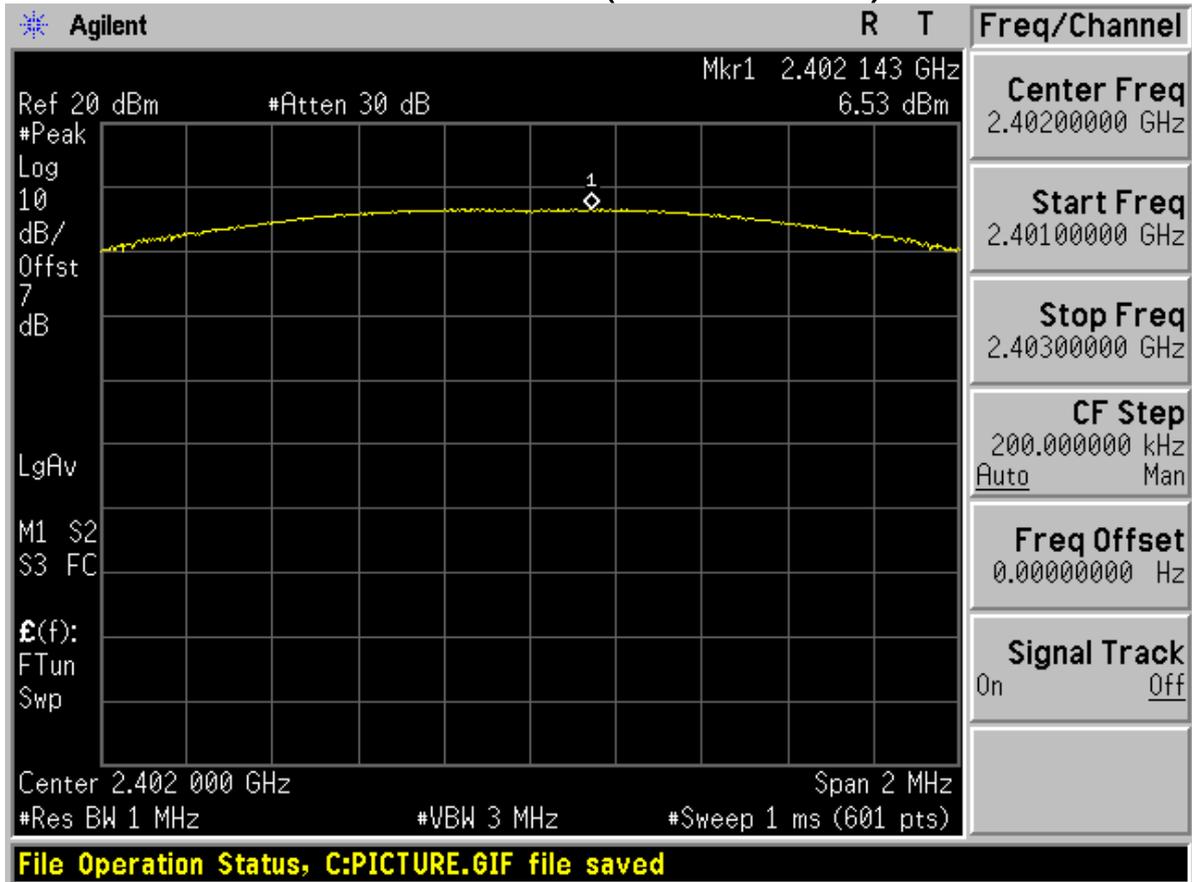
Peak output power

According to FCC Part 15.247 (b) (1)



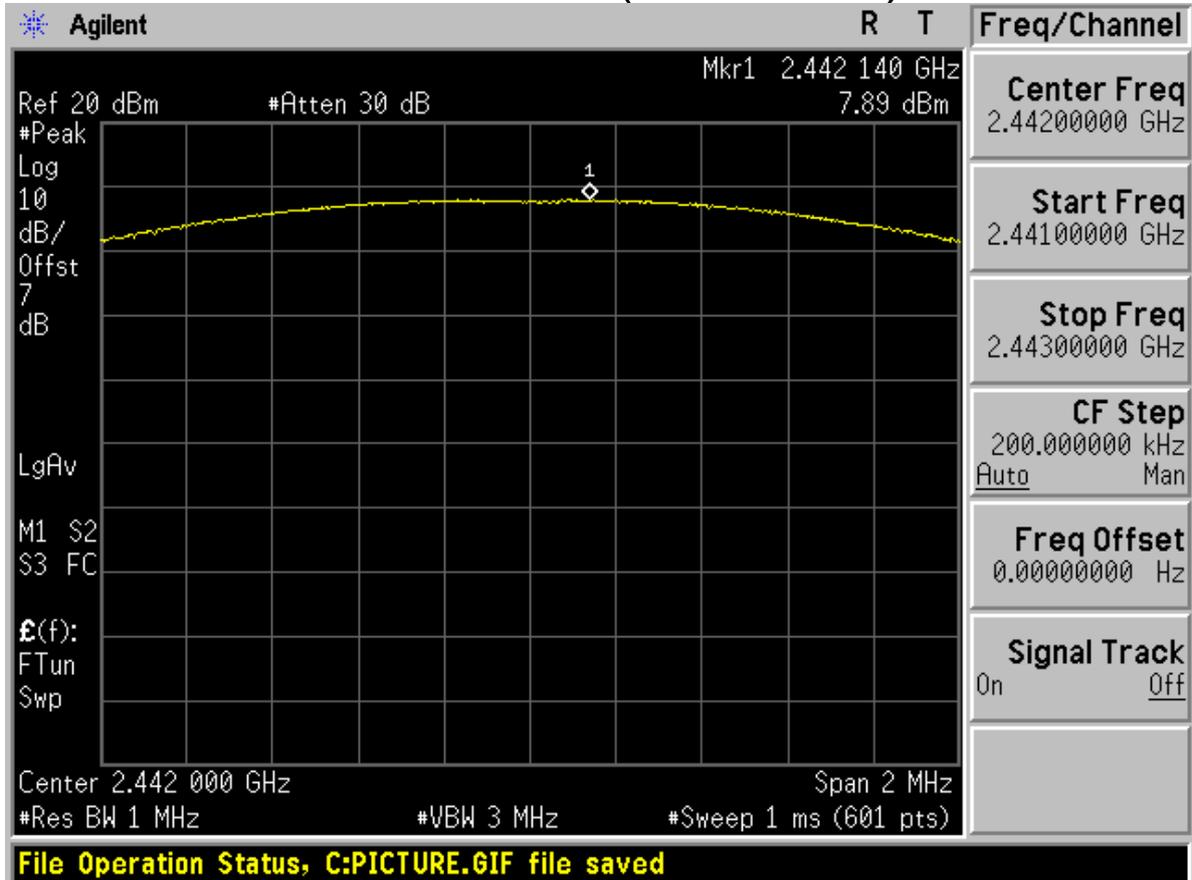
Modulation: $\pi/4$ -DQPSK

Channel 0 (2402MHz)



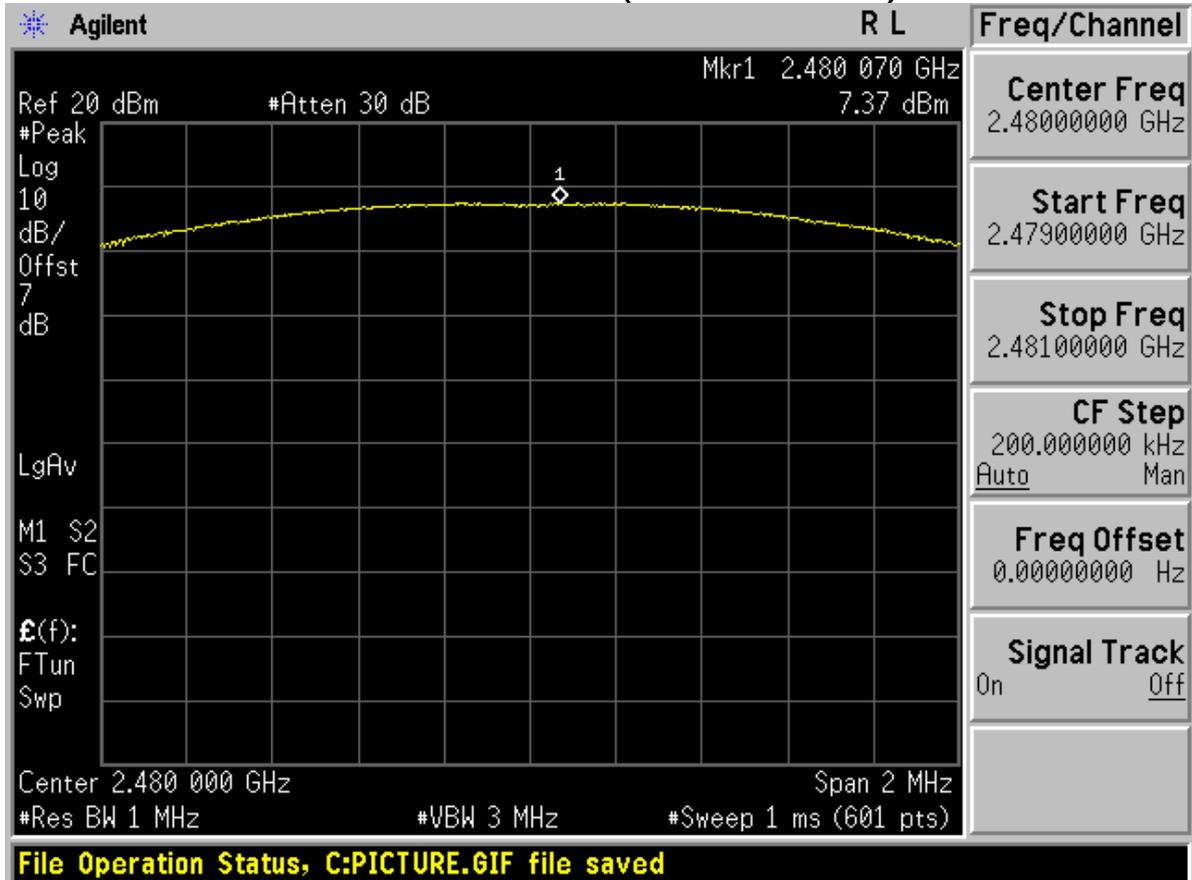


Channel 40 (2442MHz)



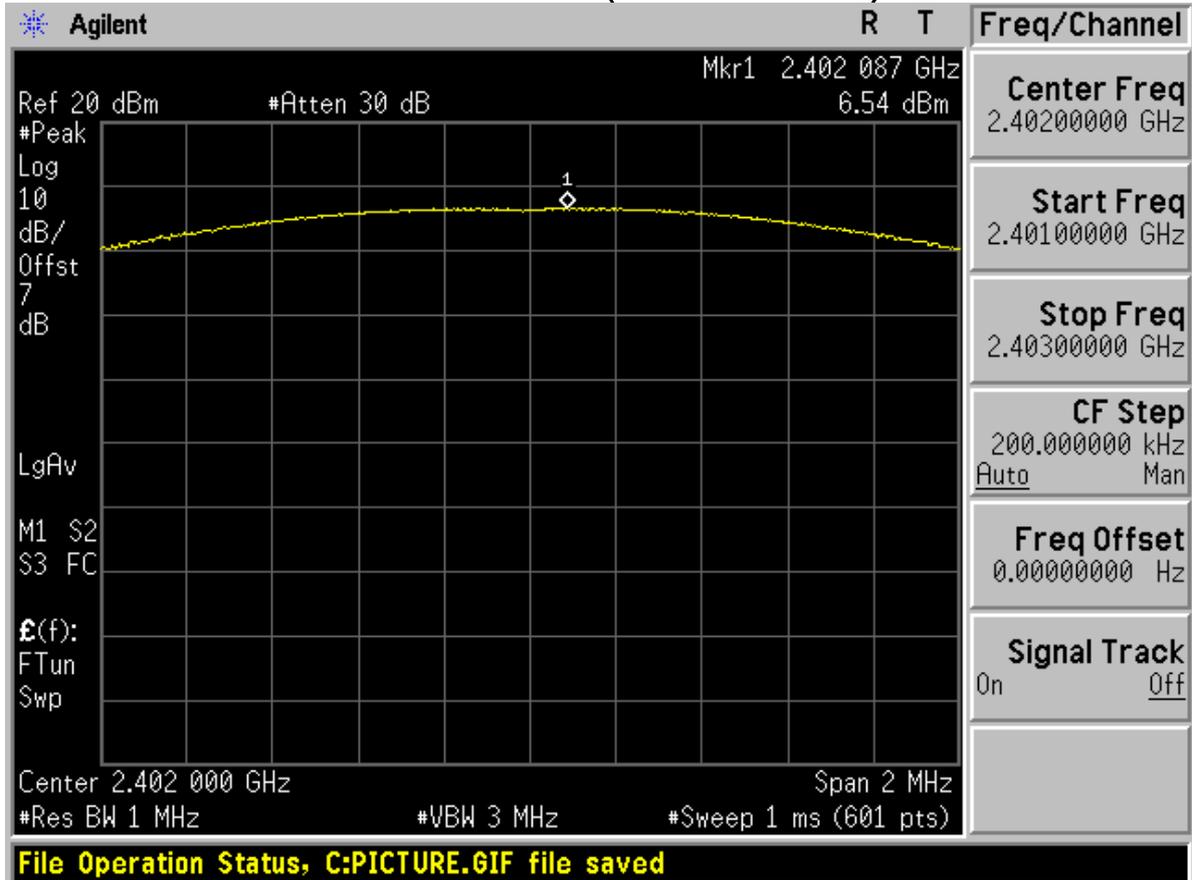


Channel 78 (2480MHz)



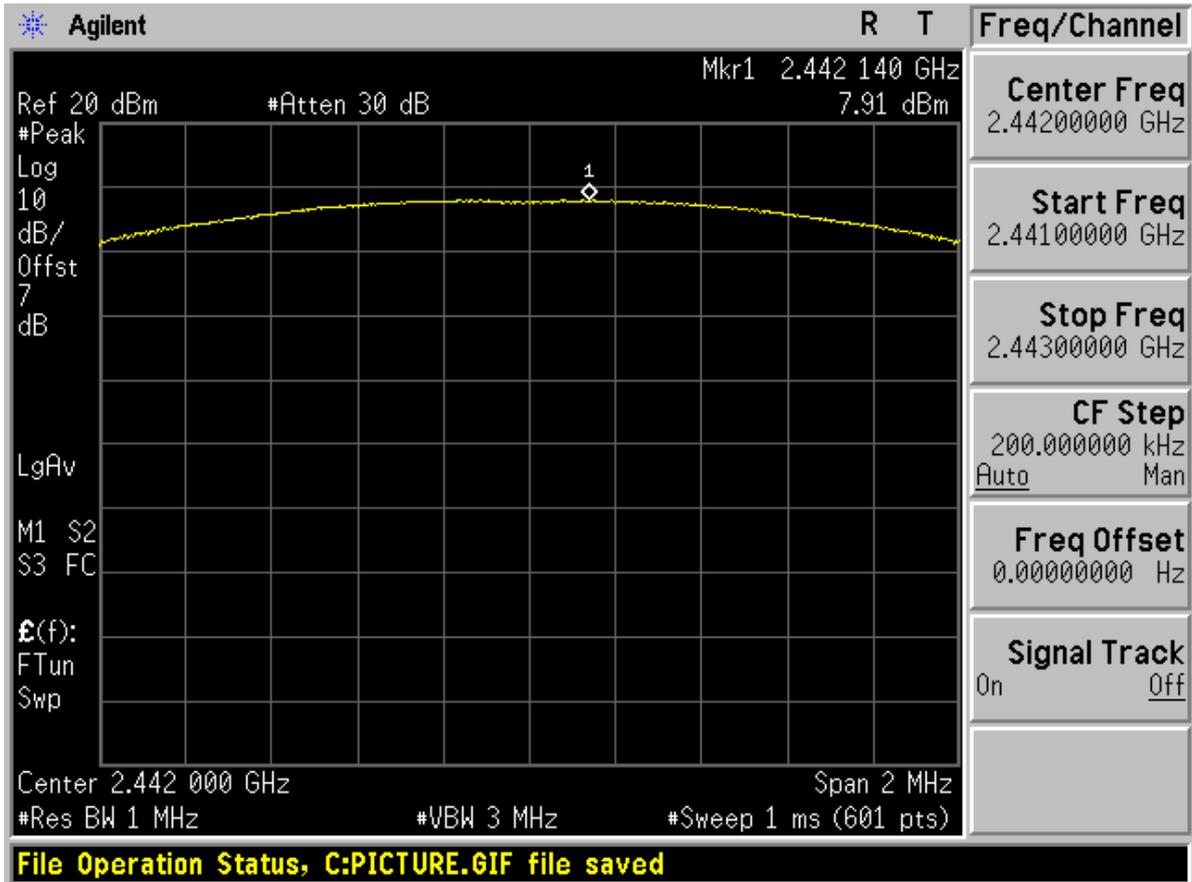


Modulation: 8DPSK Channel 0 (2402MHz)



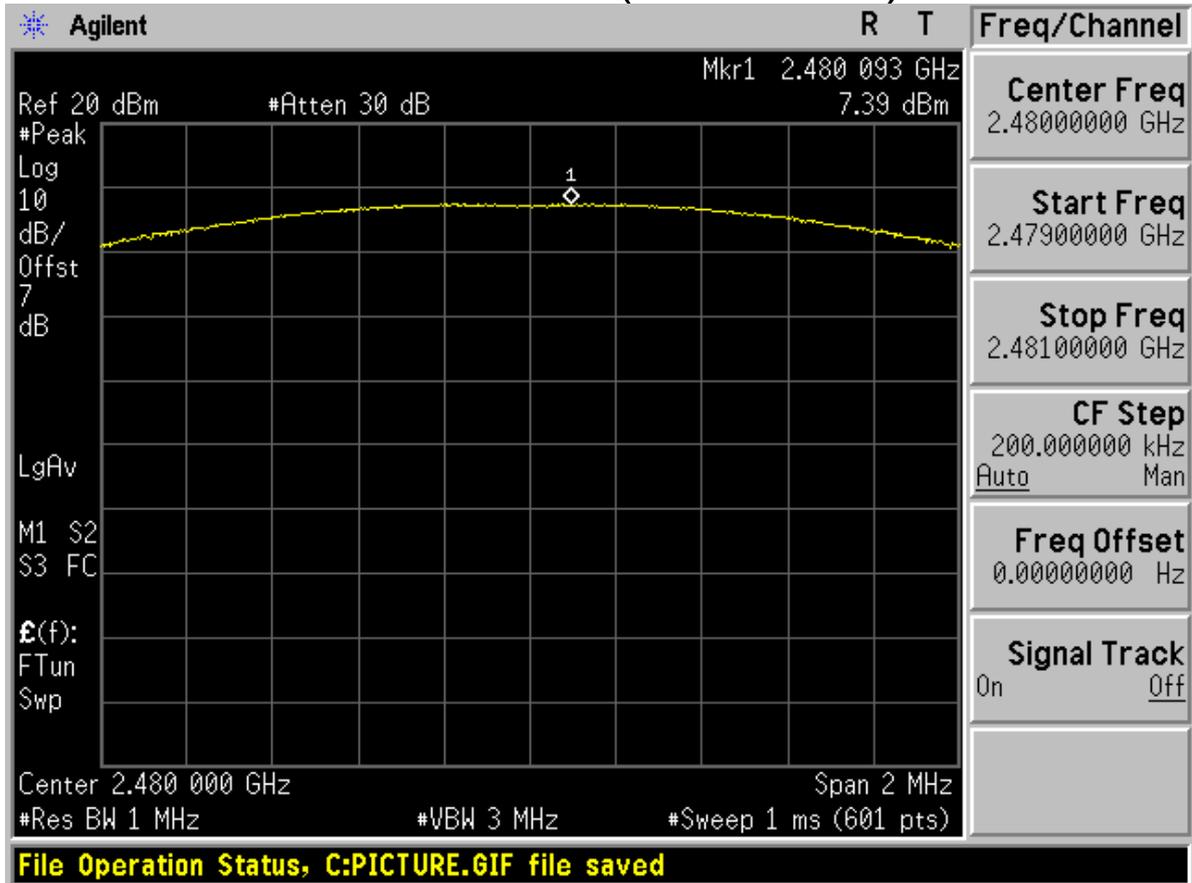


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix F

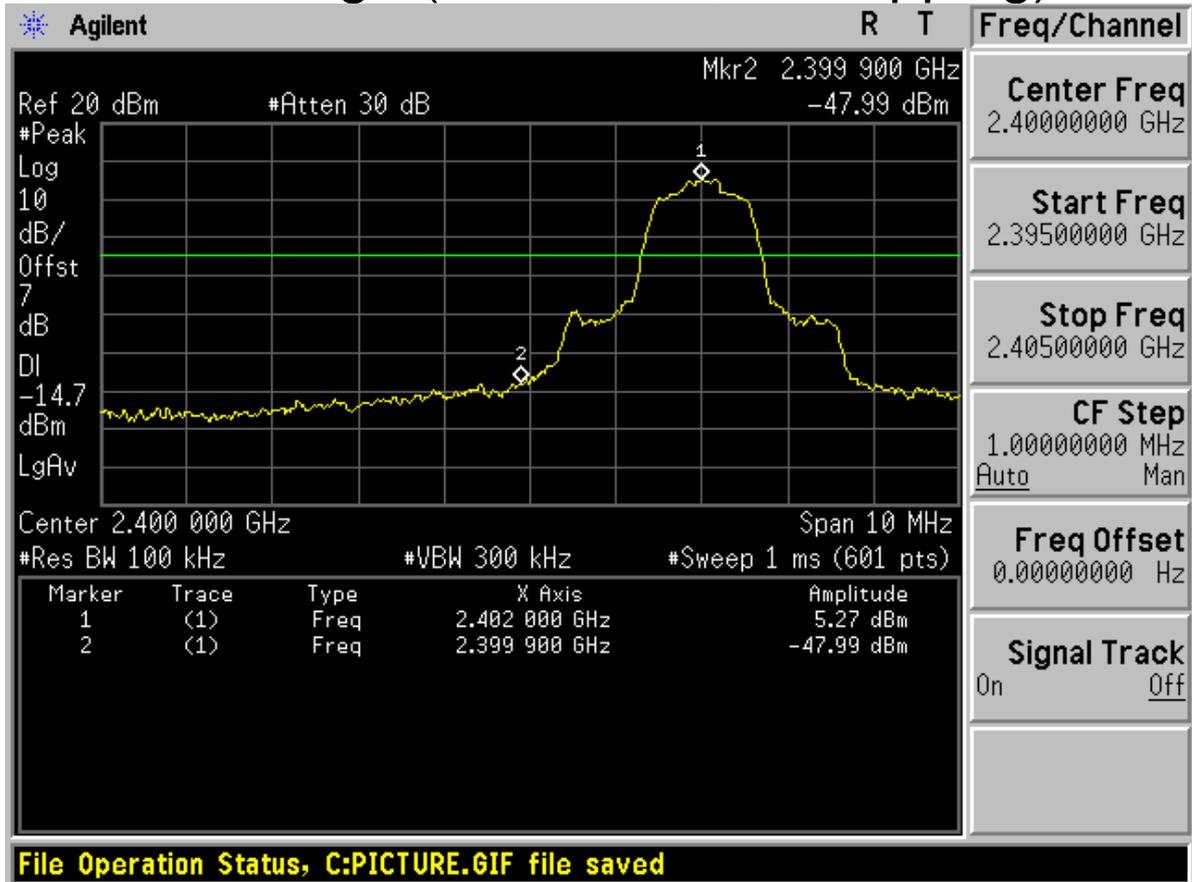
Band edge spurious emission

According to FCC Part 15.247 (d)



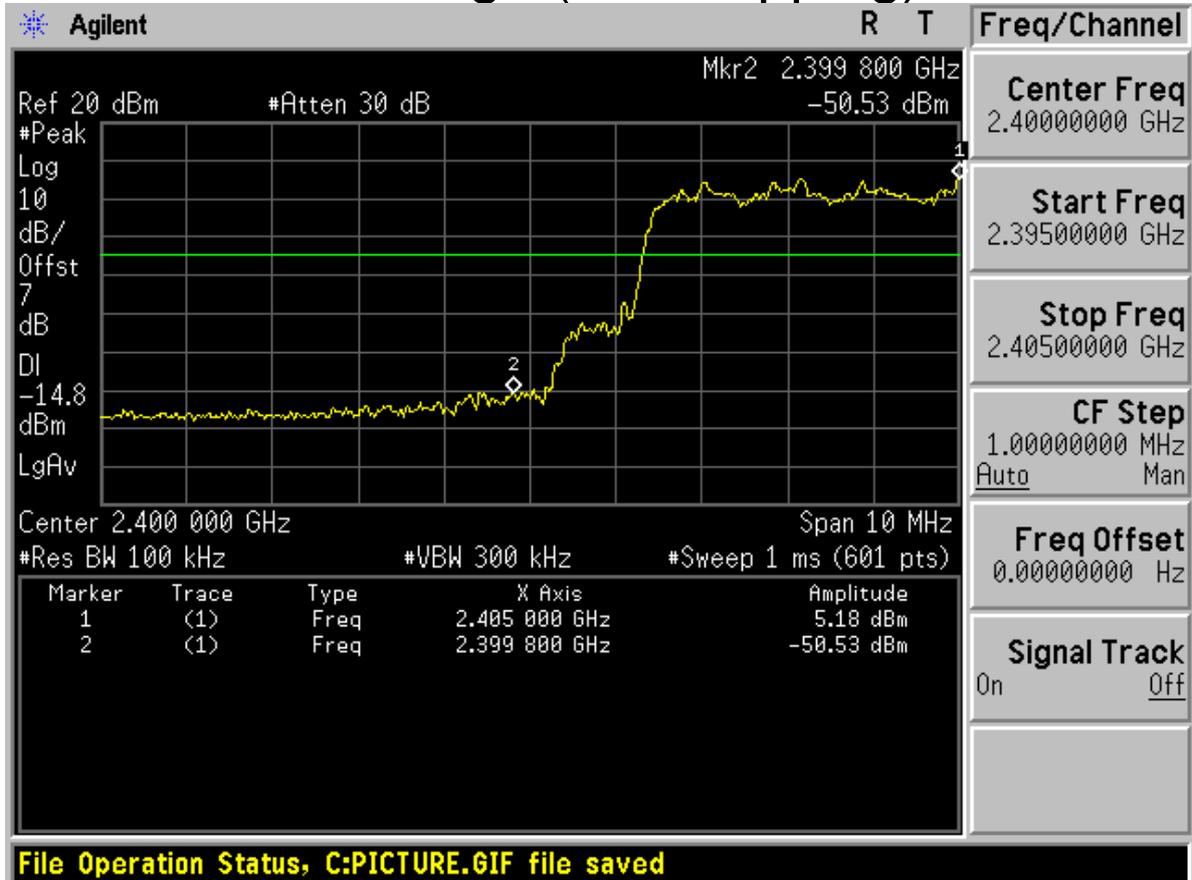
Modulation: $\pi/4$ -DQPSK

Low edge (Channel 0, no hopping)



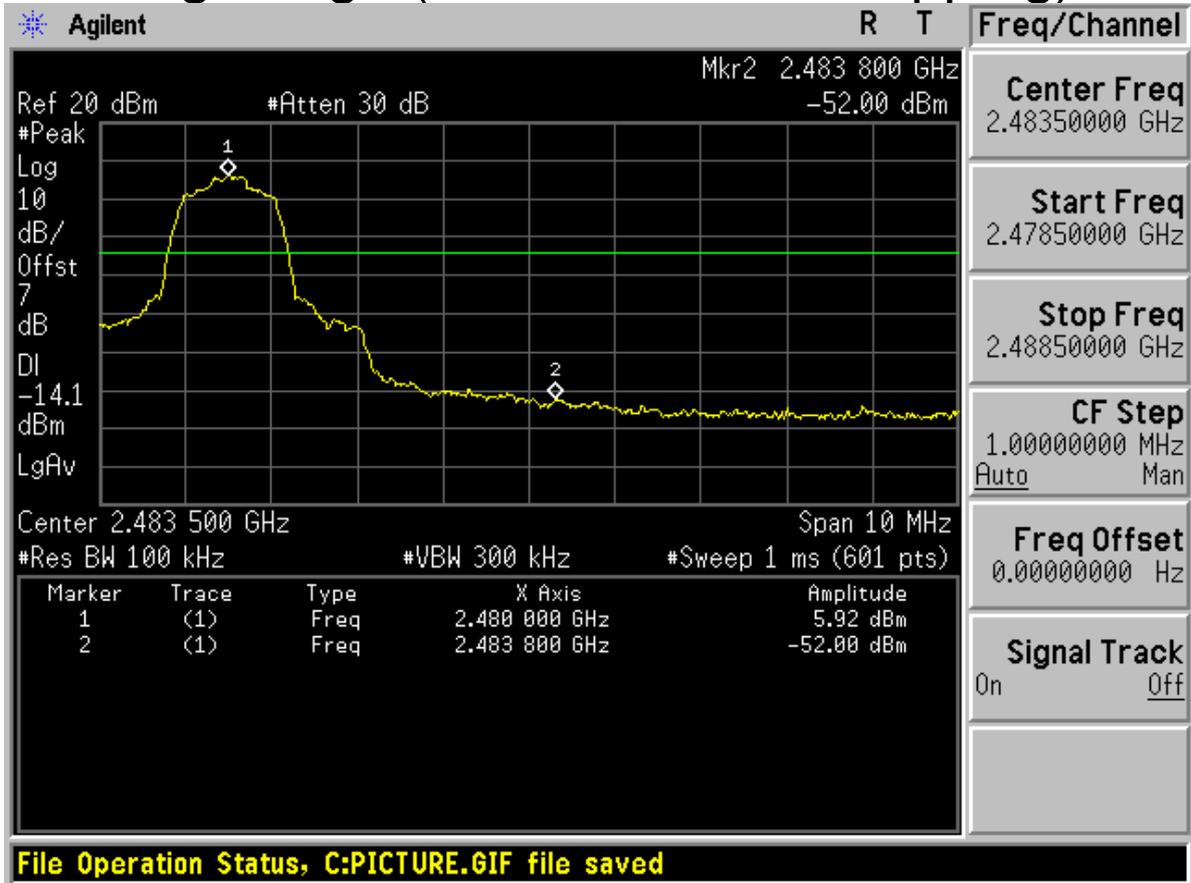


Low edge (with hopping)



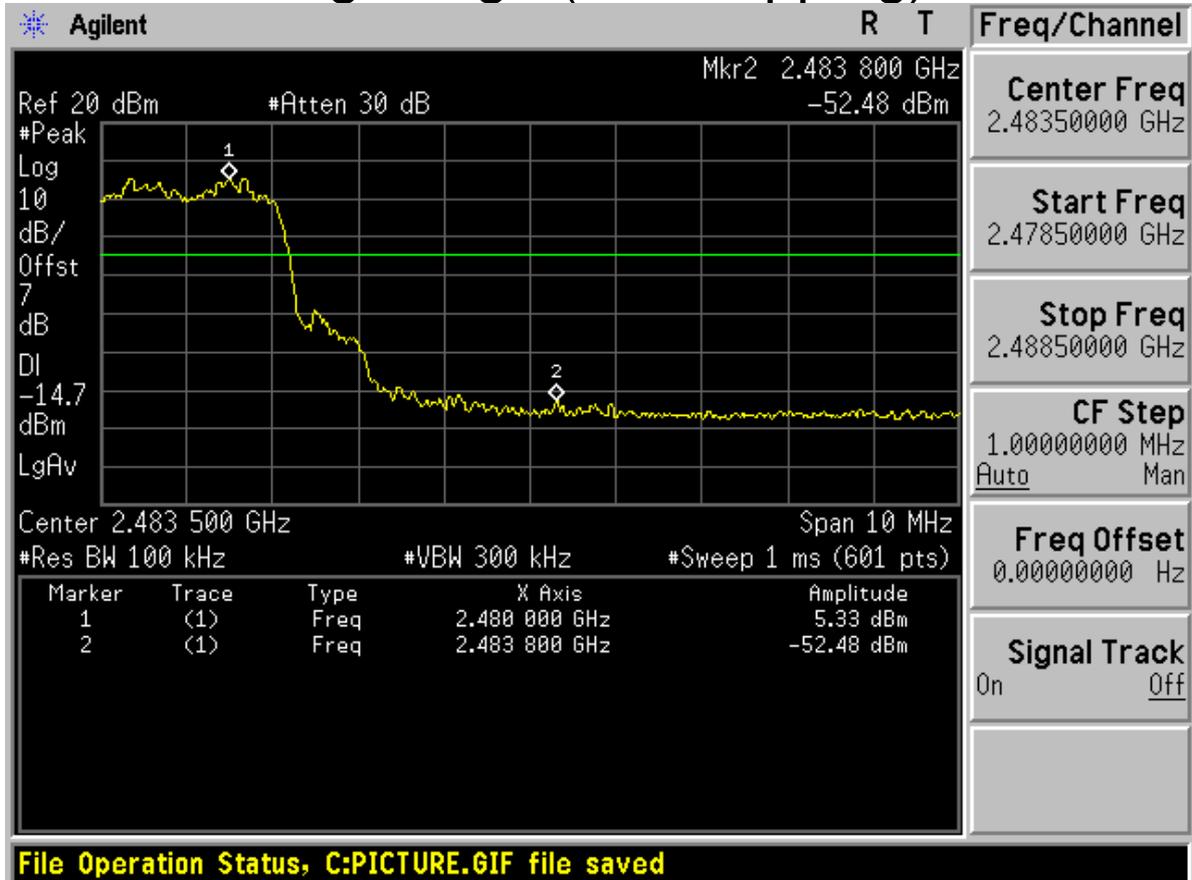


High edge (Channel 78, no hopping)



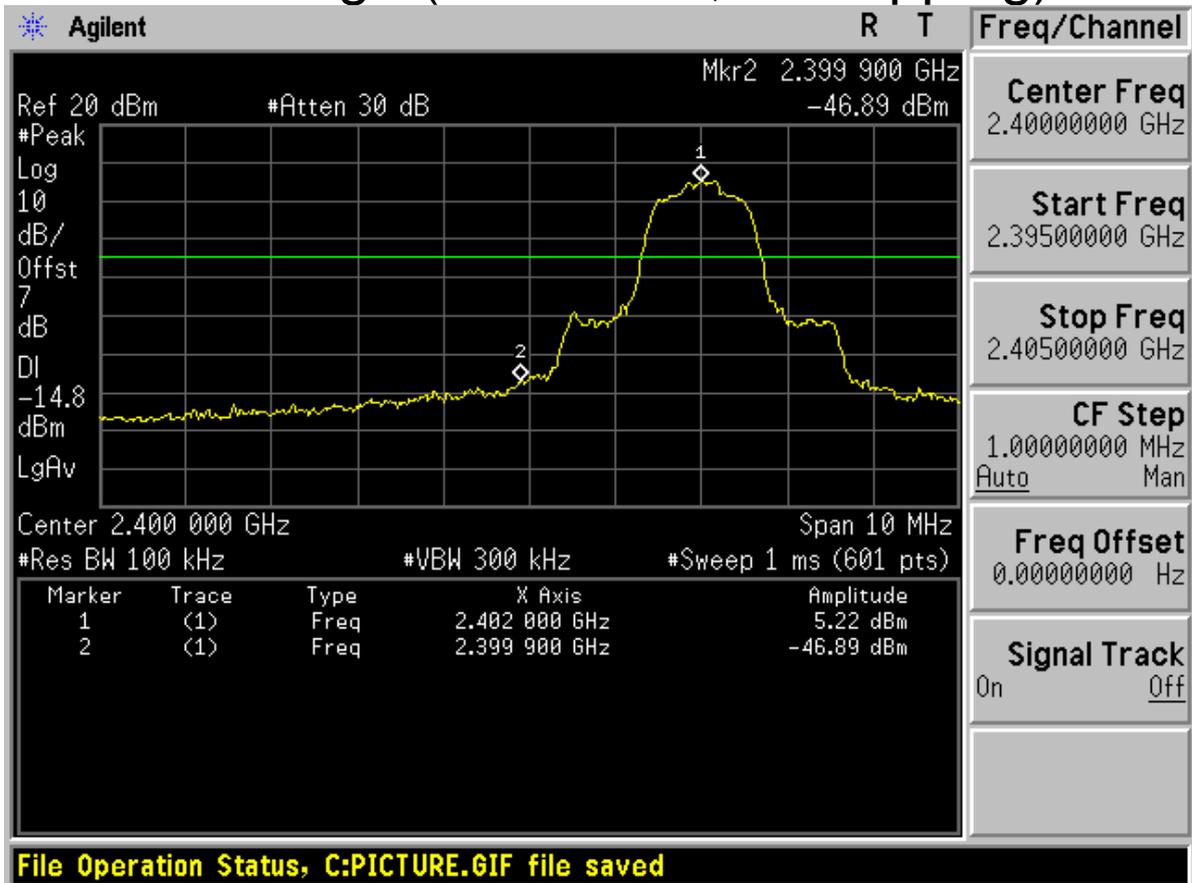


High edge (with hopping)



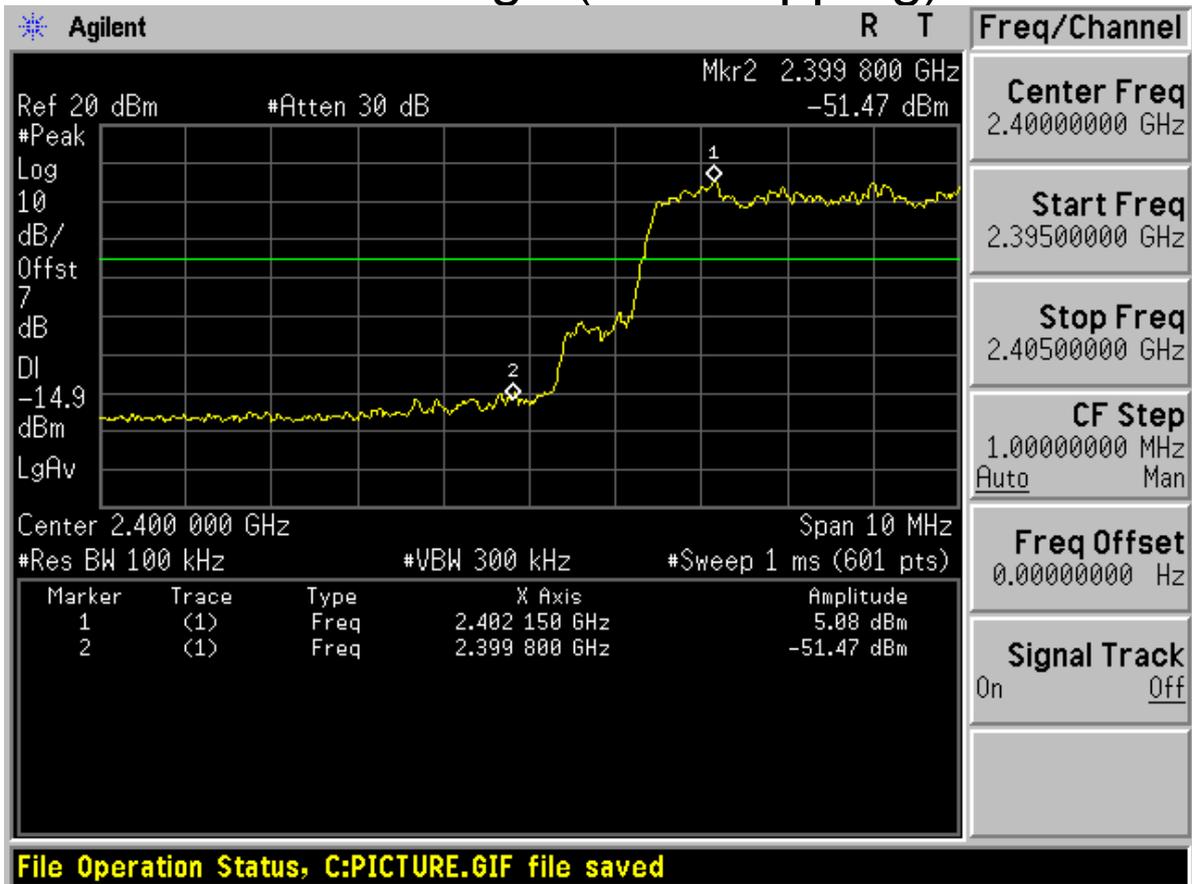


Modulation: 8DPSK Low edge (Channel 0, no hopping)



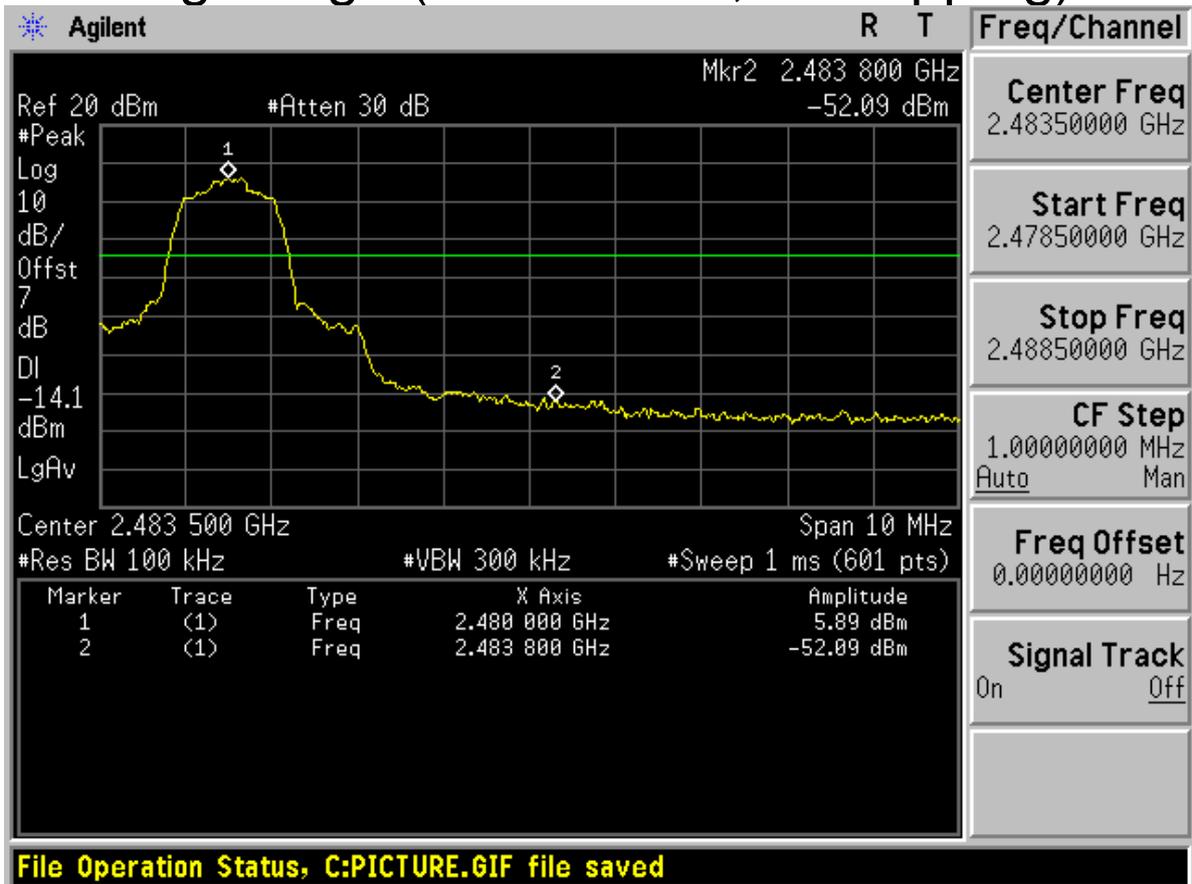


Low edge (with hopping)



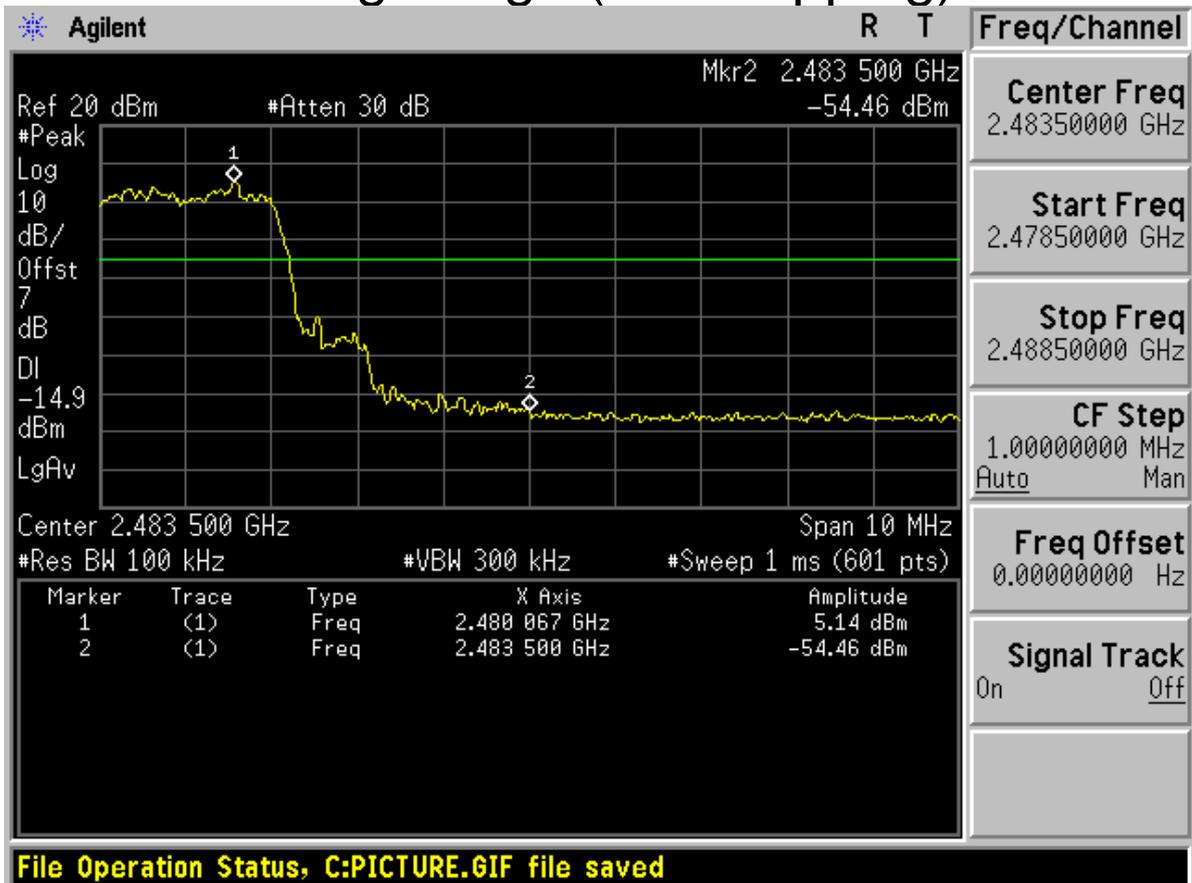


High edge (Channel 78, no hopping)





High edge (with hopping)





Appendix G

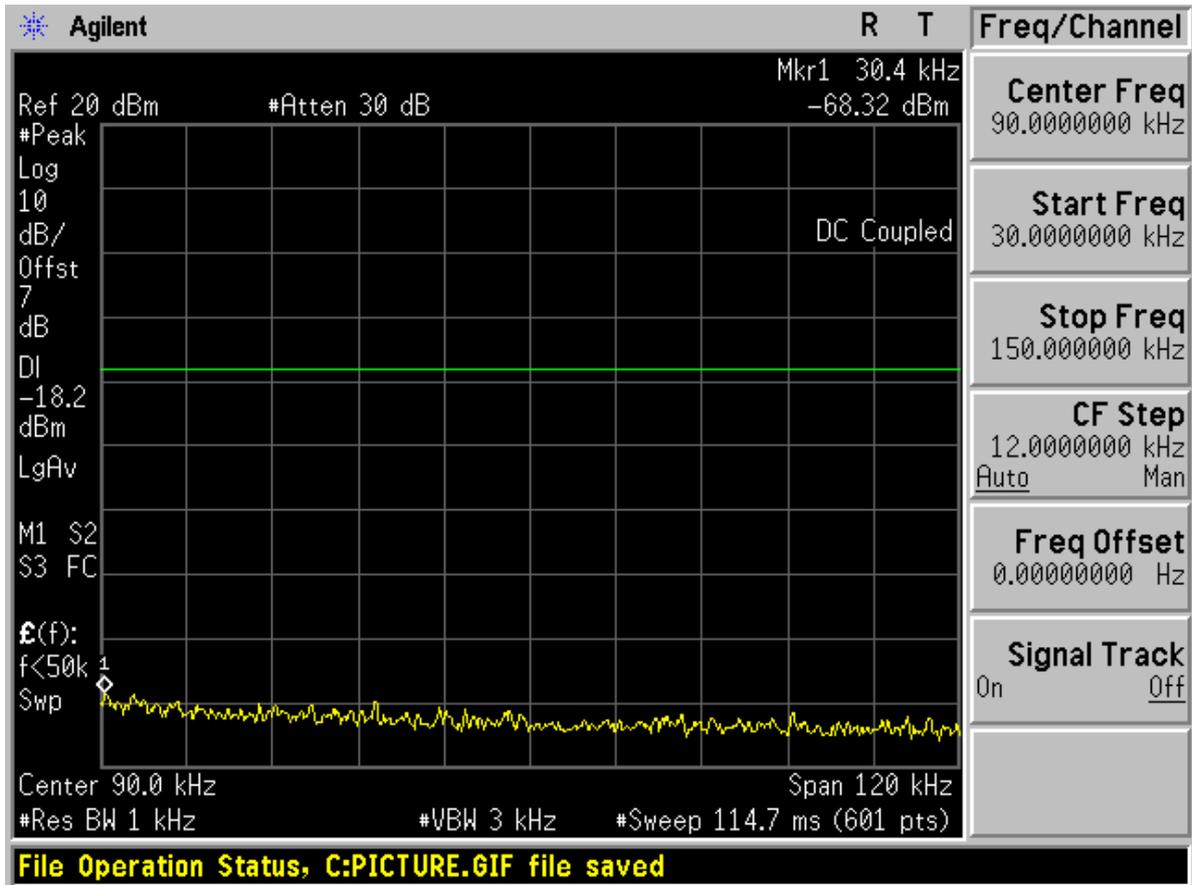
Conducted RF spurious

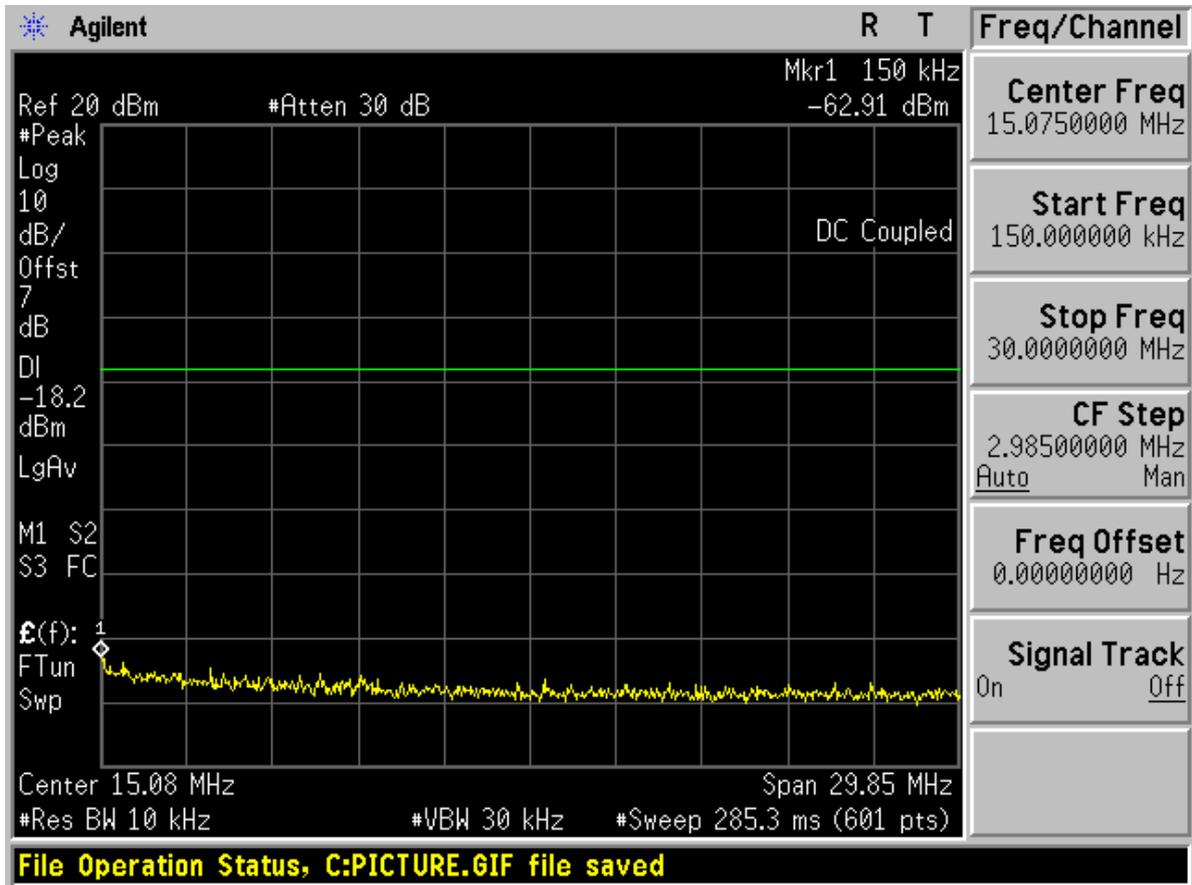
According to FCC Part 15.247 (d)

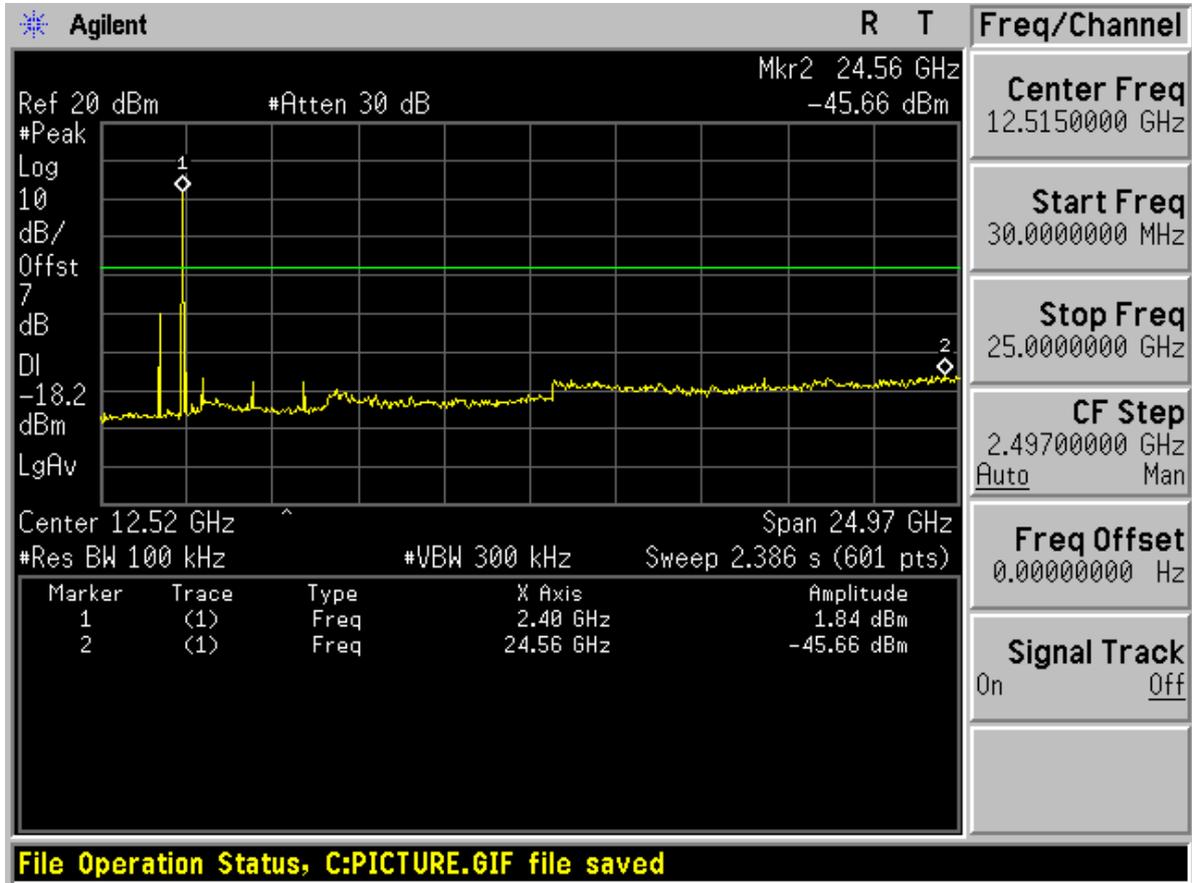


Modulation: $\pi/4$ -DQPSK

Channel 0

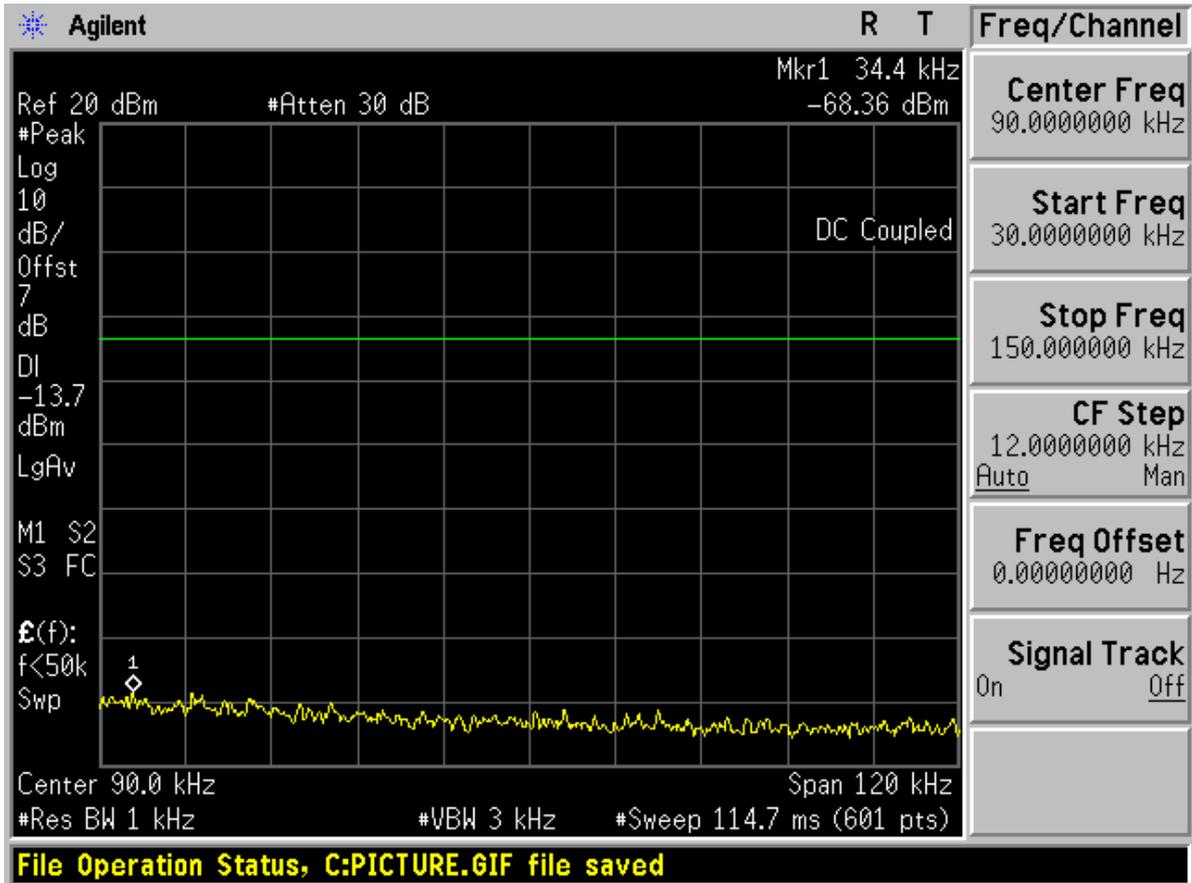


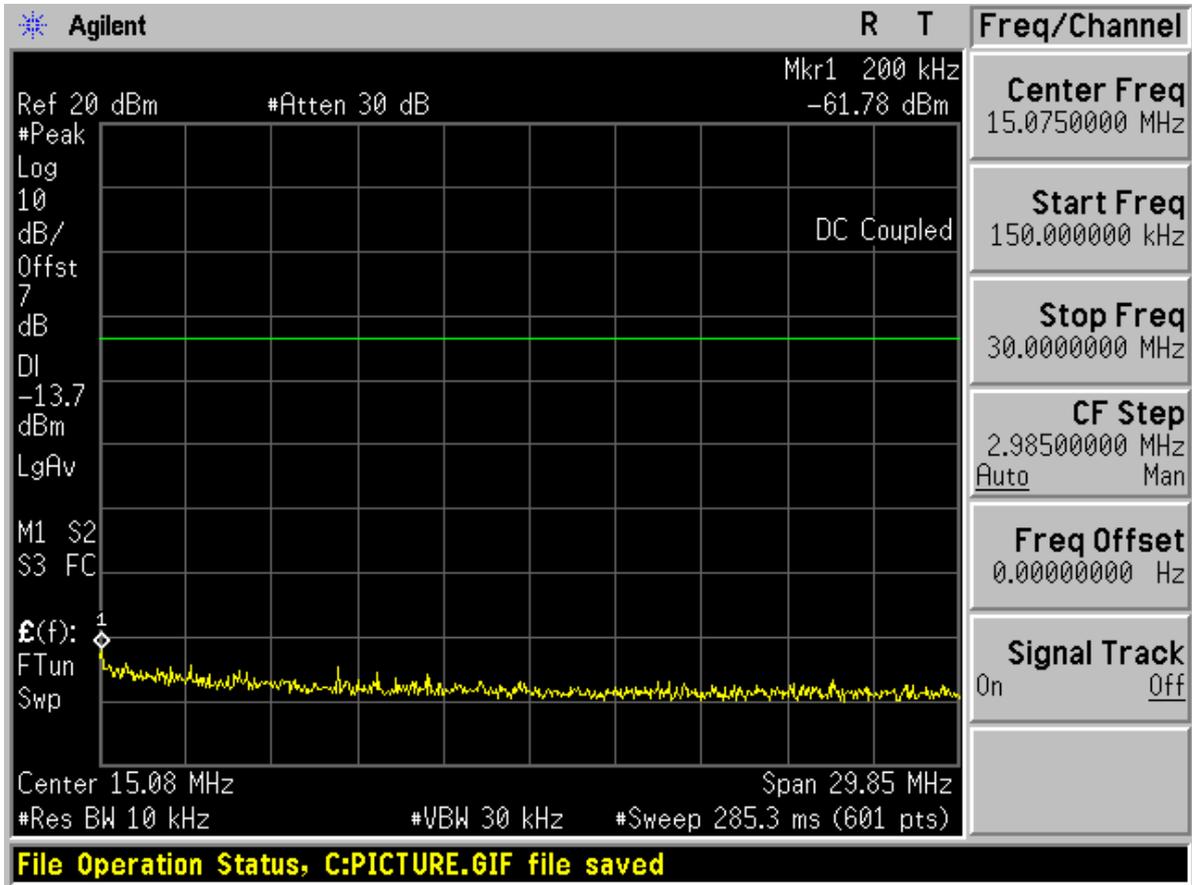


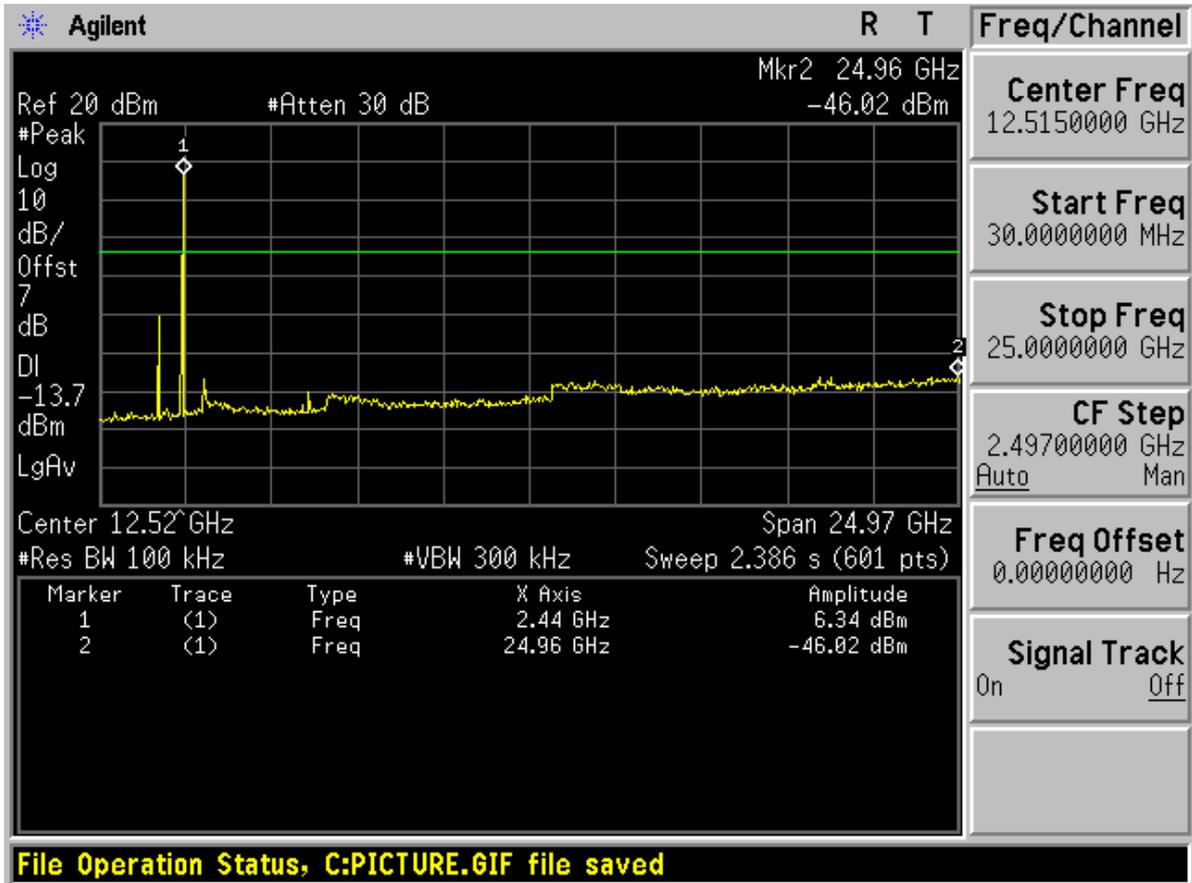




Channel 40

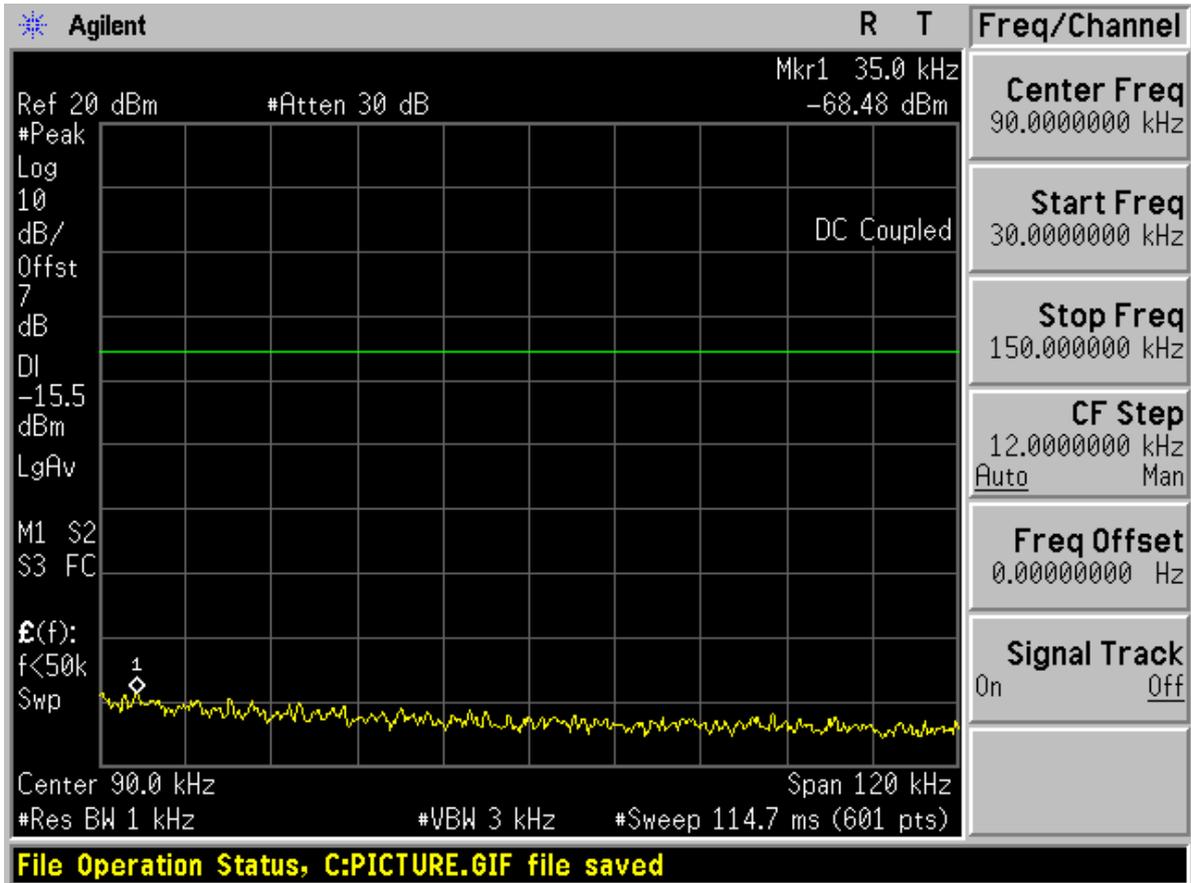


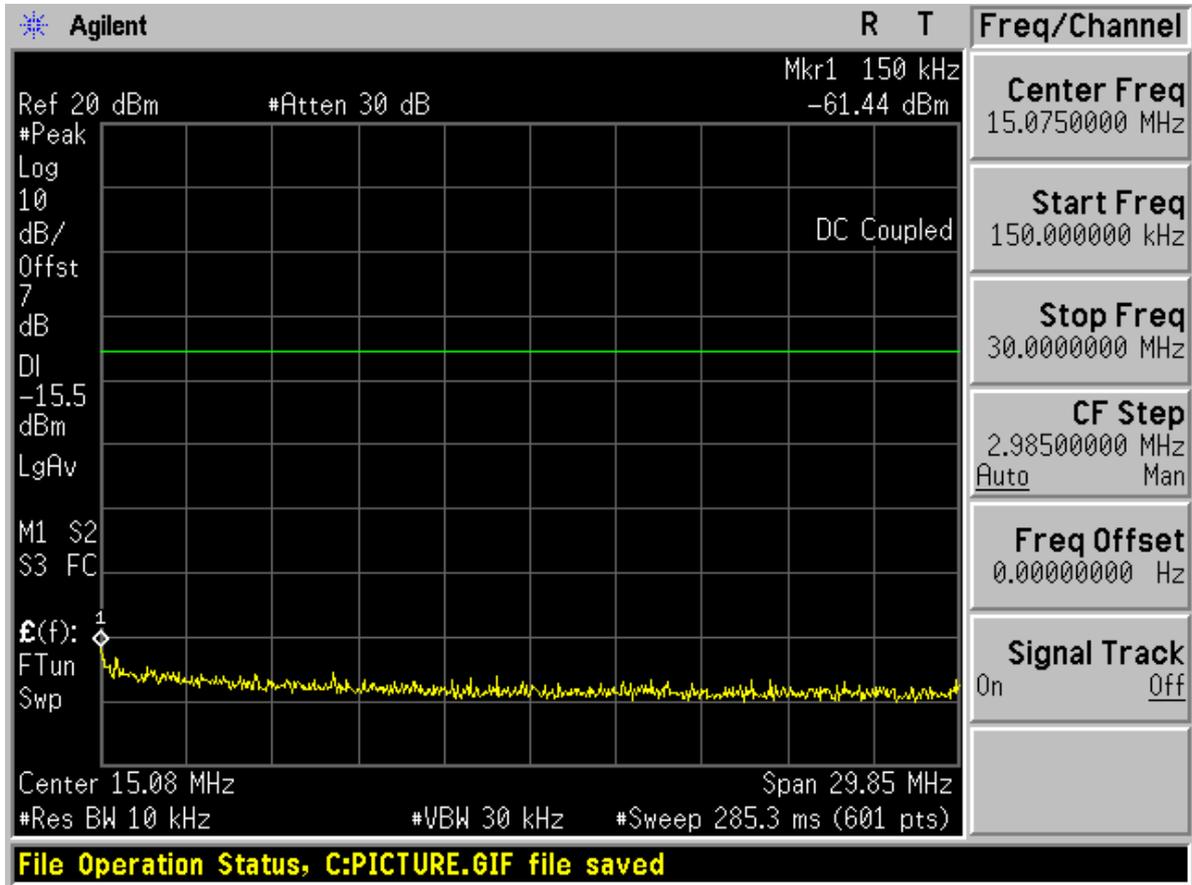


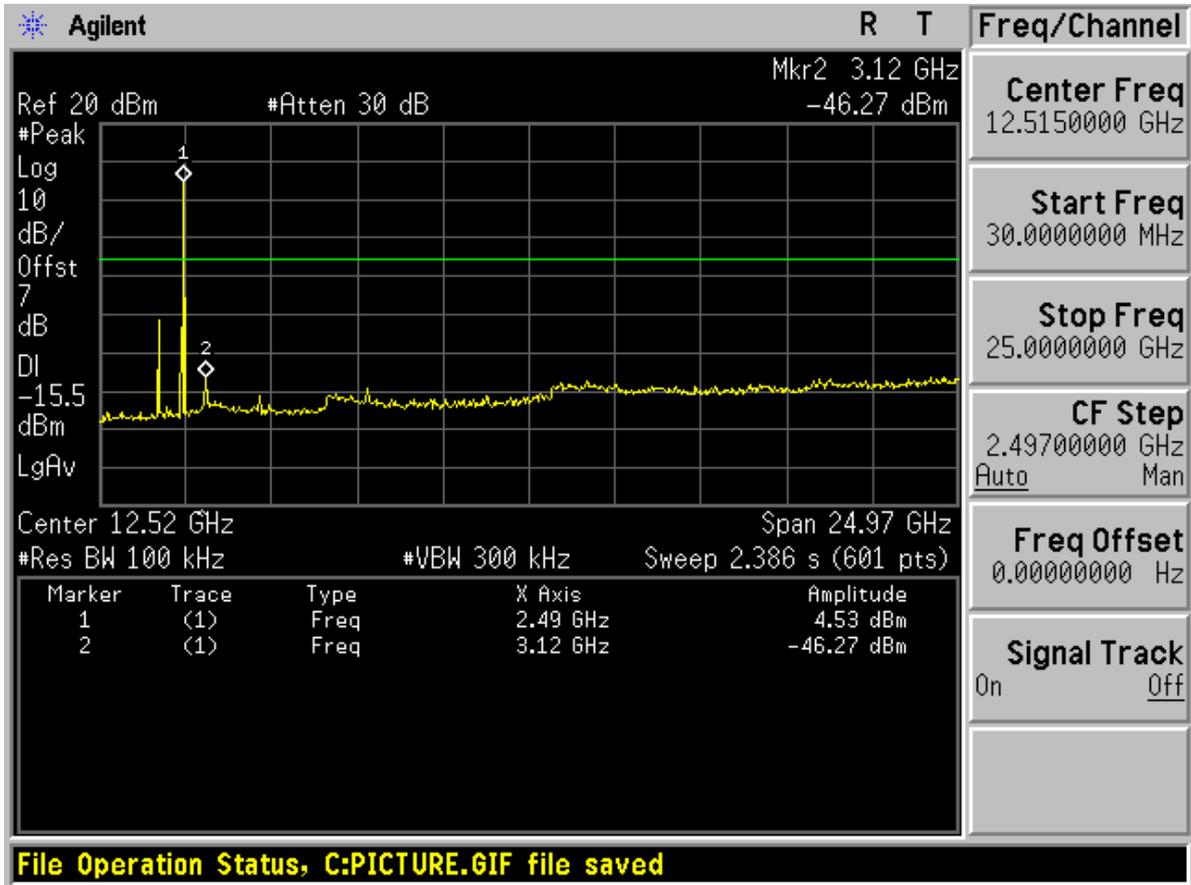




Channel 78

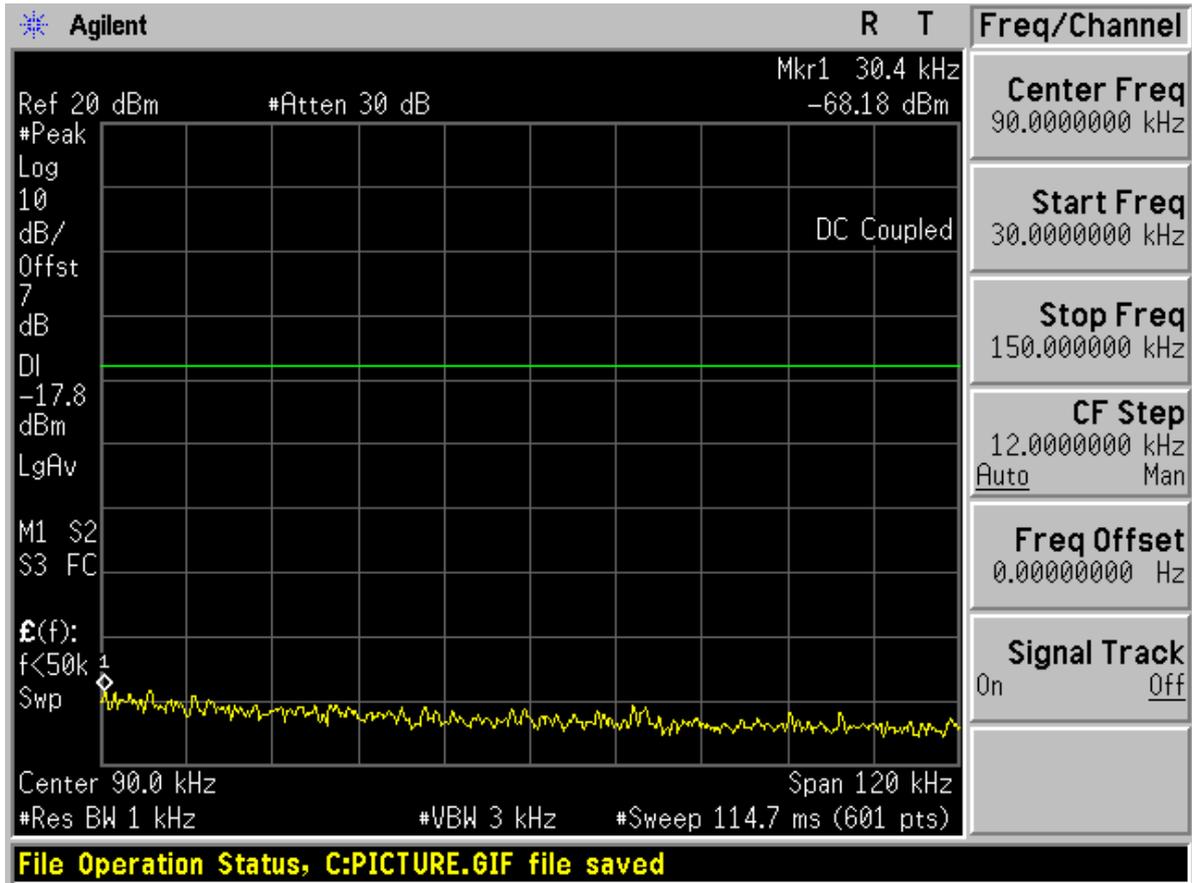


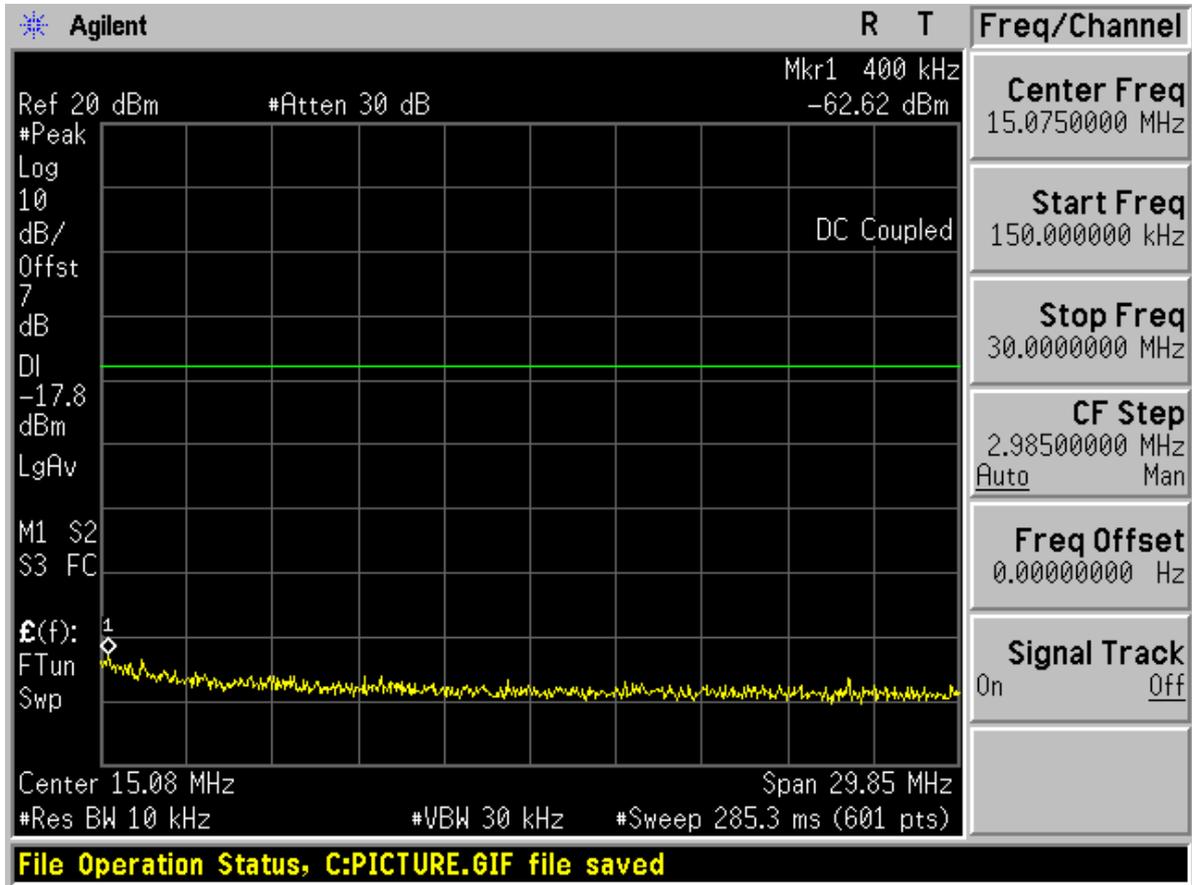


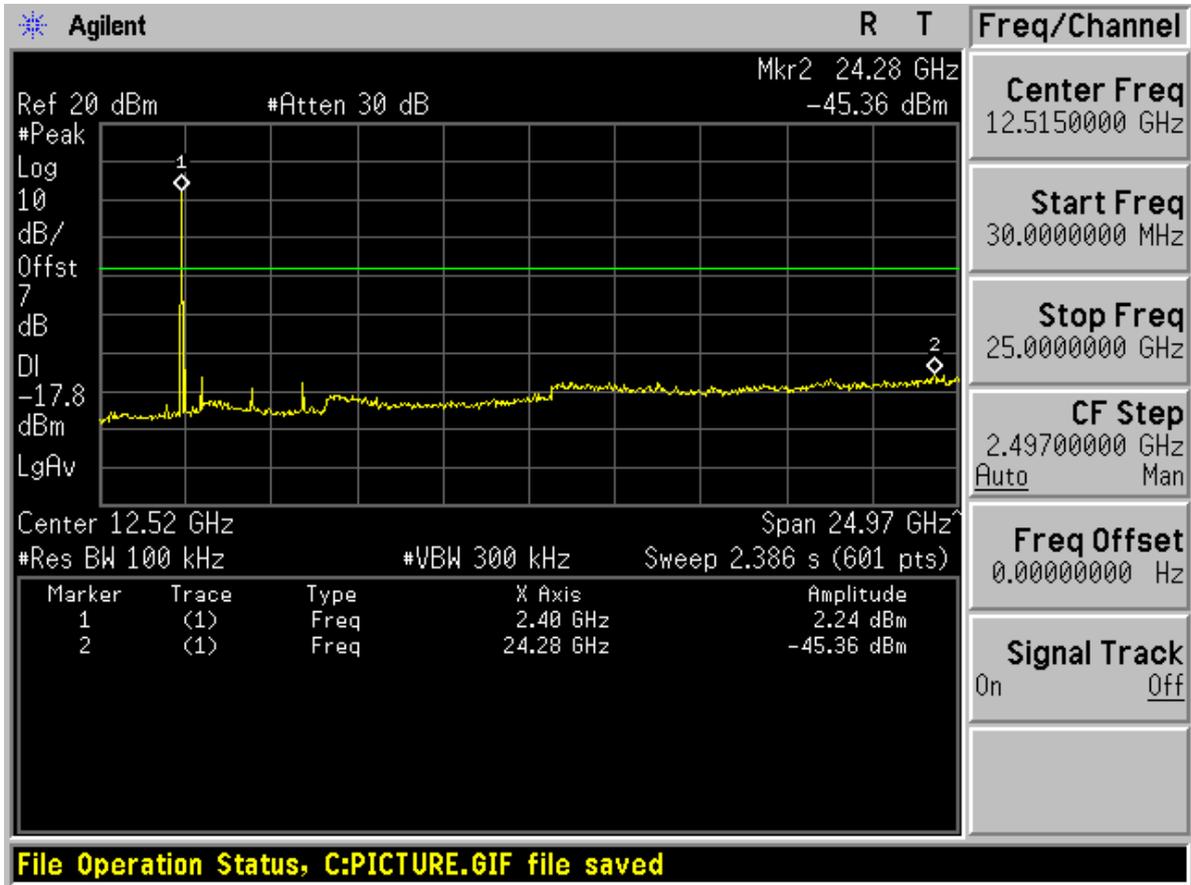




Modulation: 8DPSK Channel 0

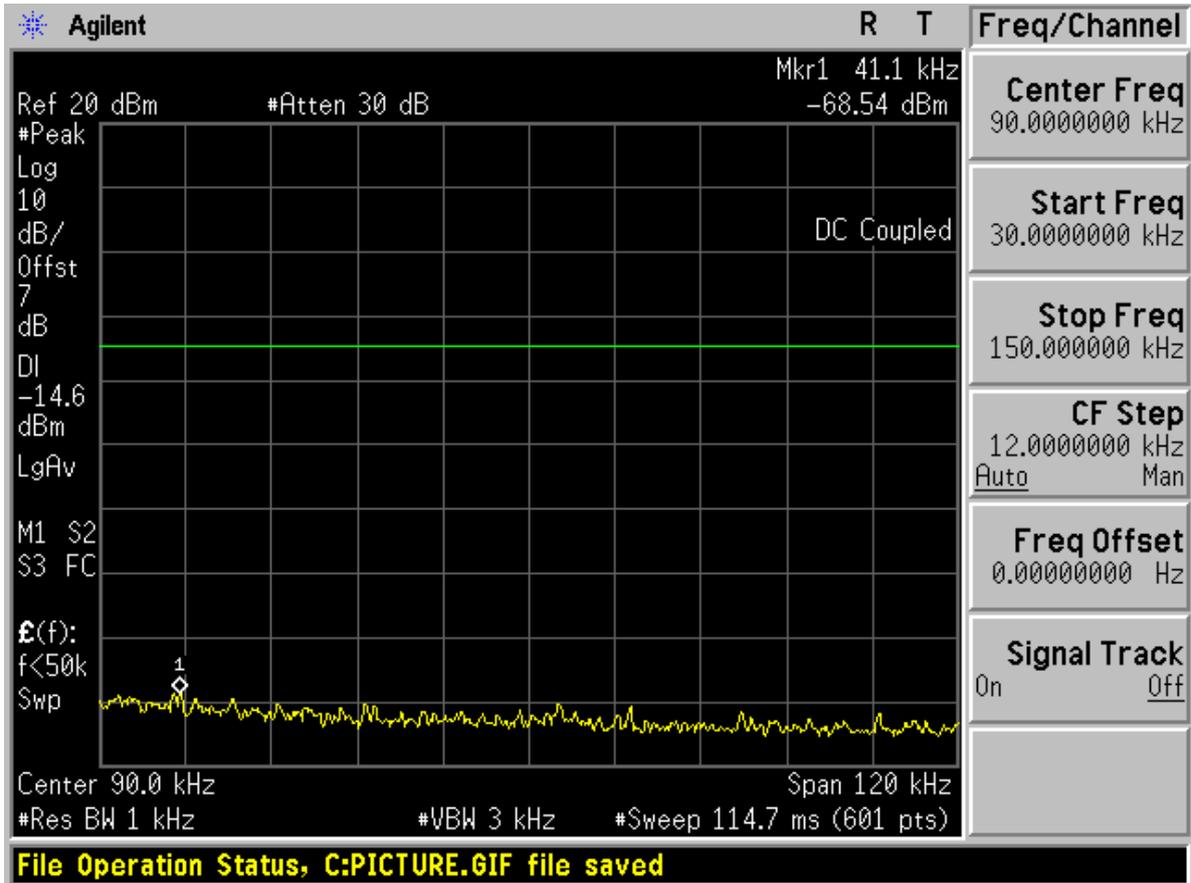


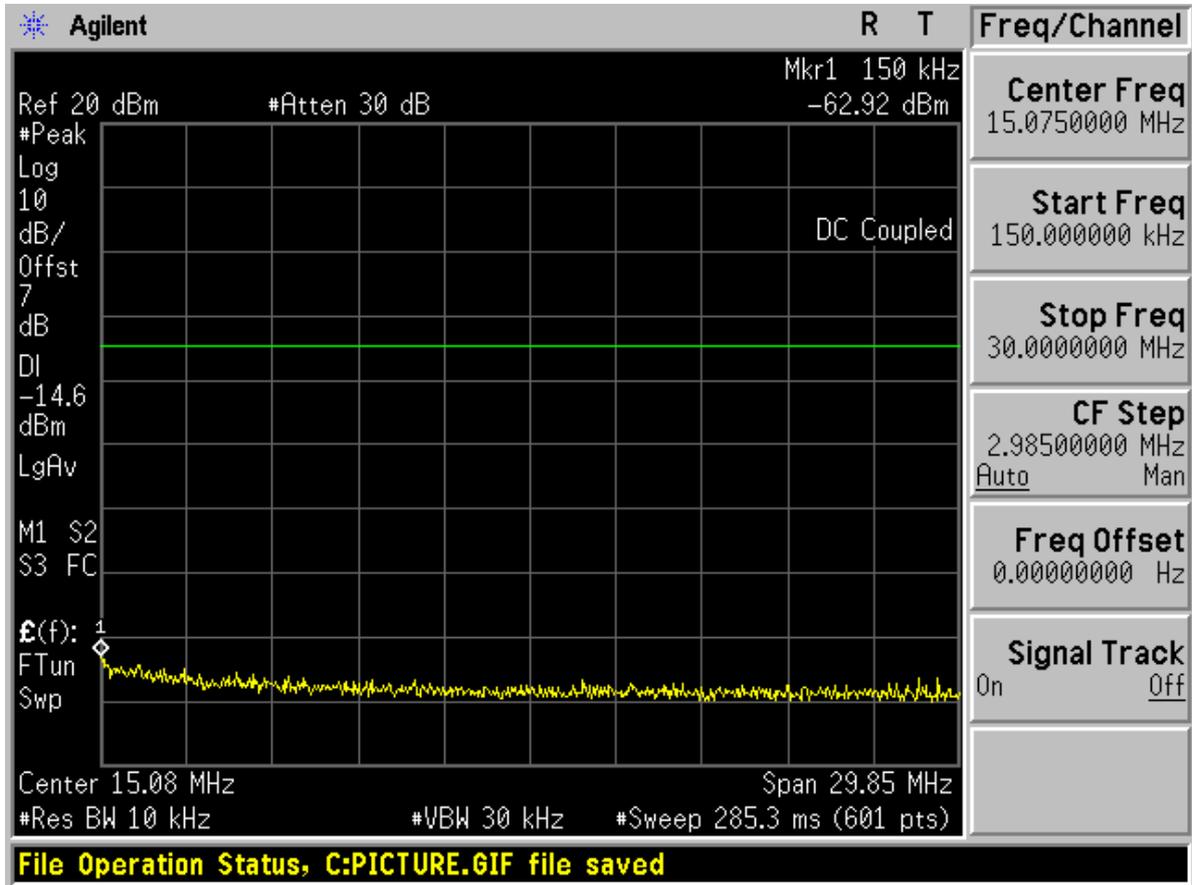


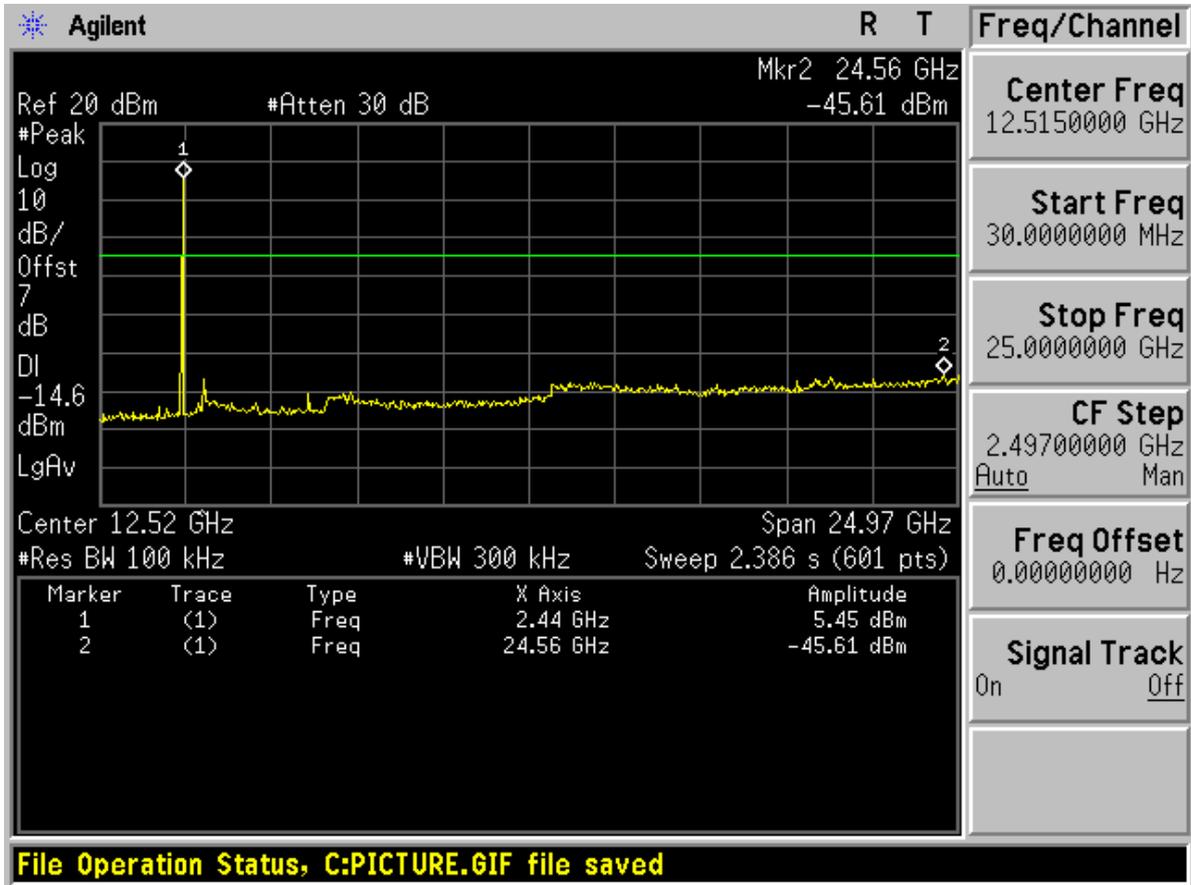




Channel 40

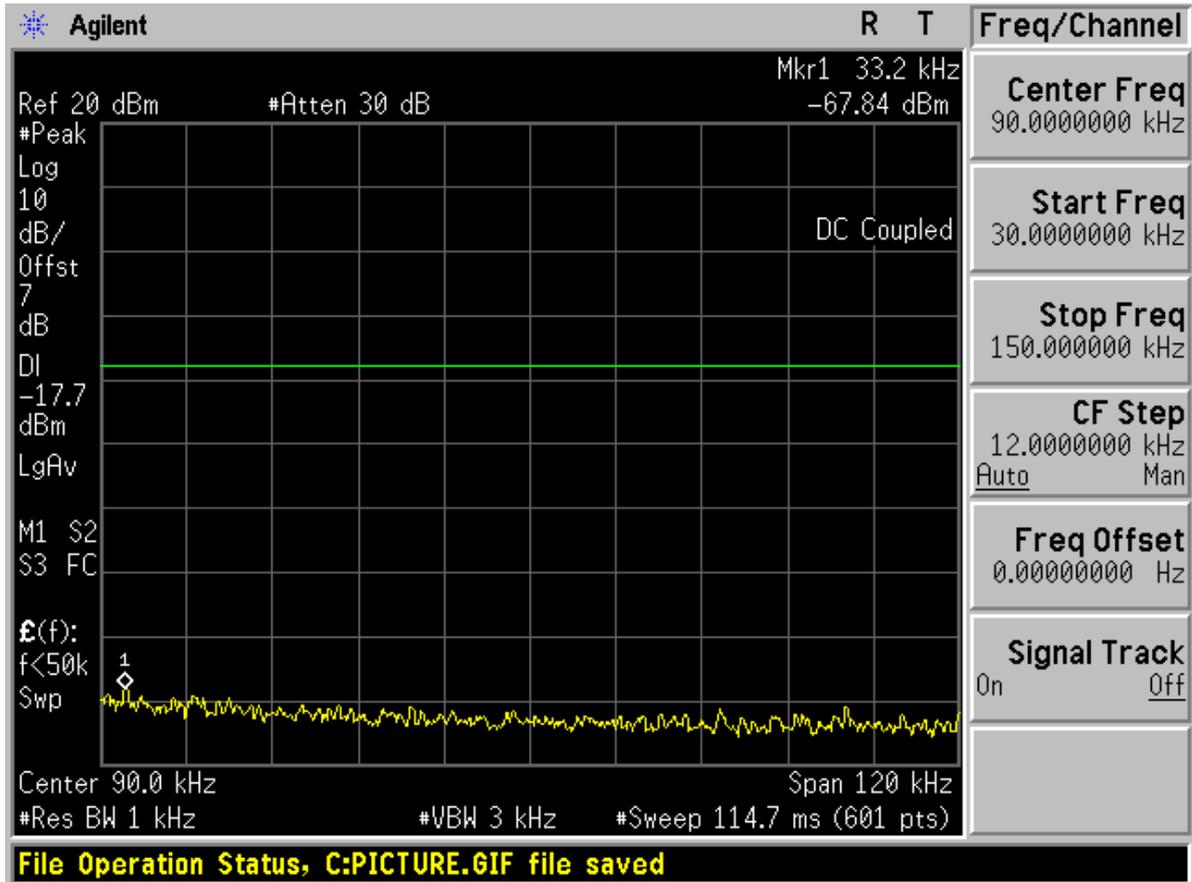


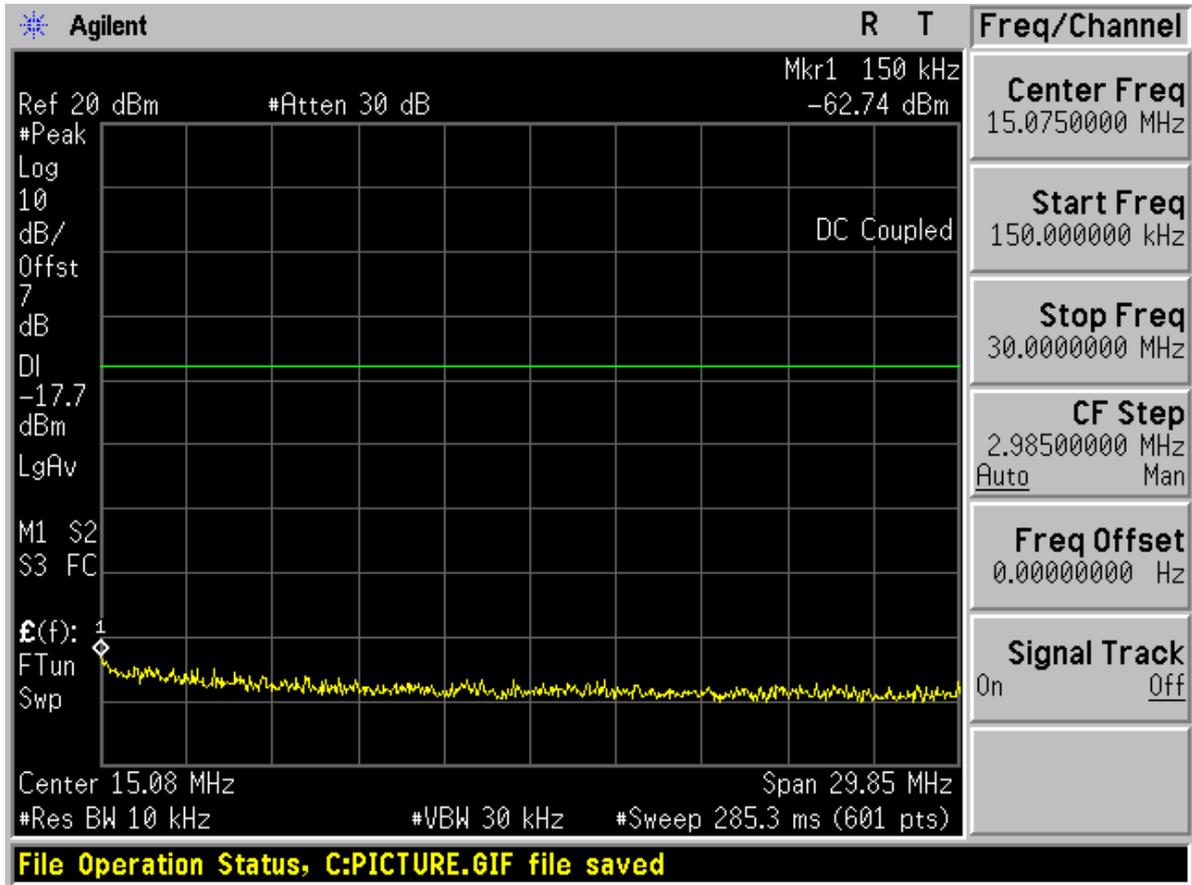


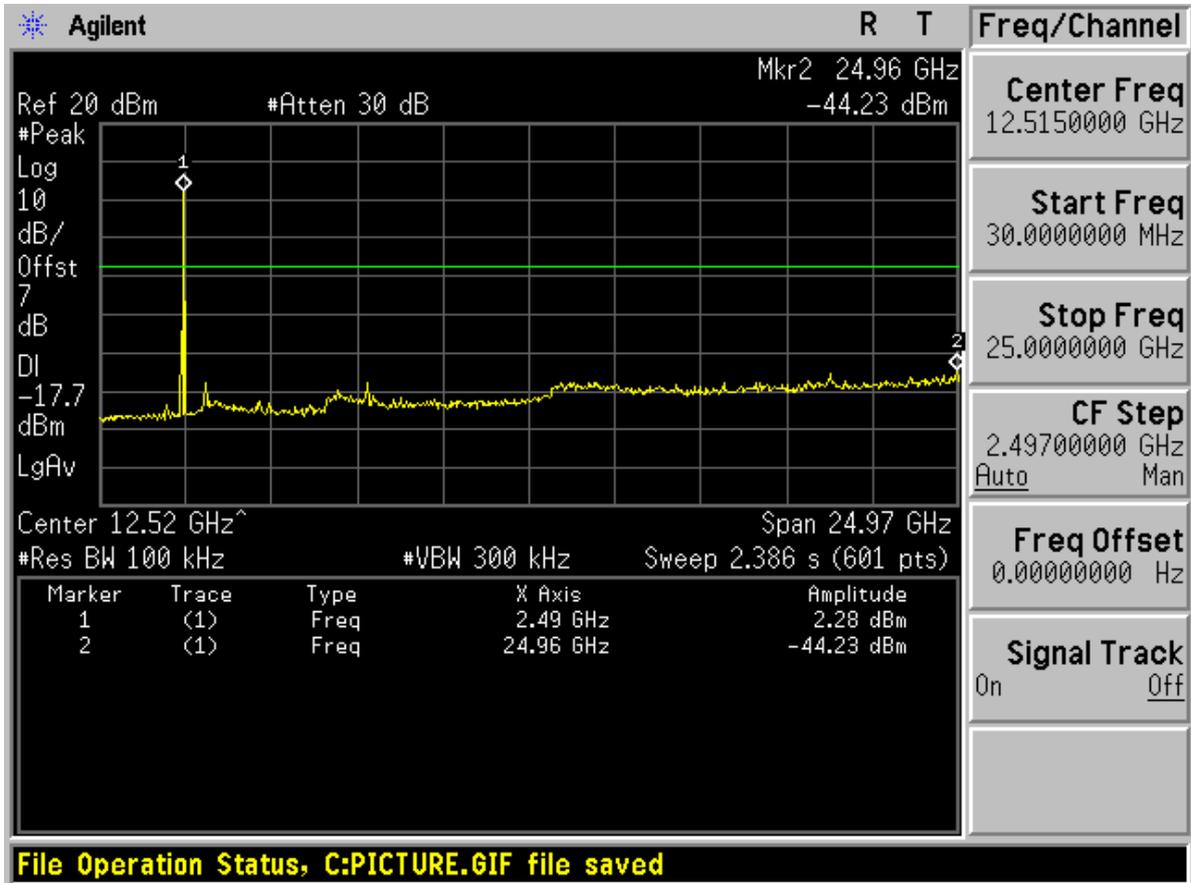




Channel 78









Appendix H

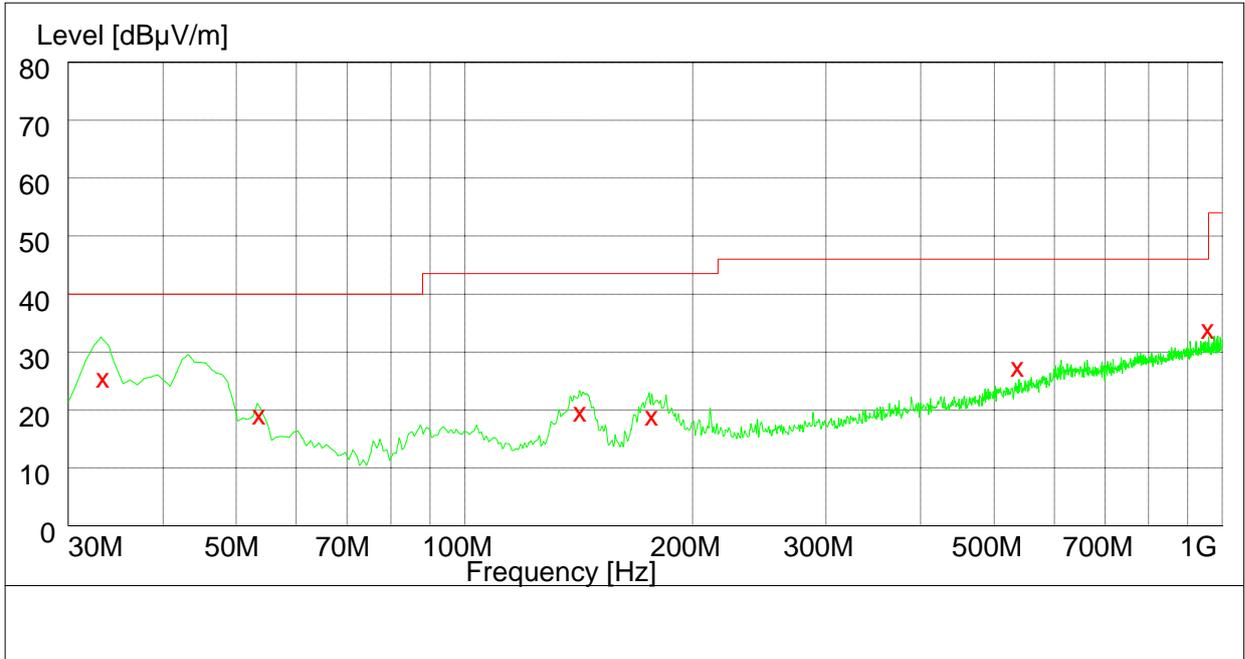
Radiated spurious emission

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



Channel 0

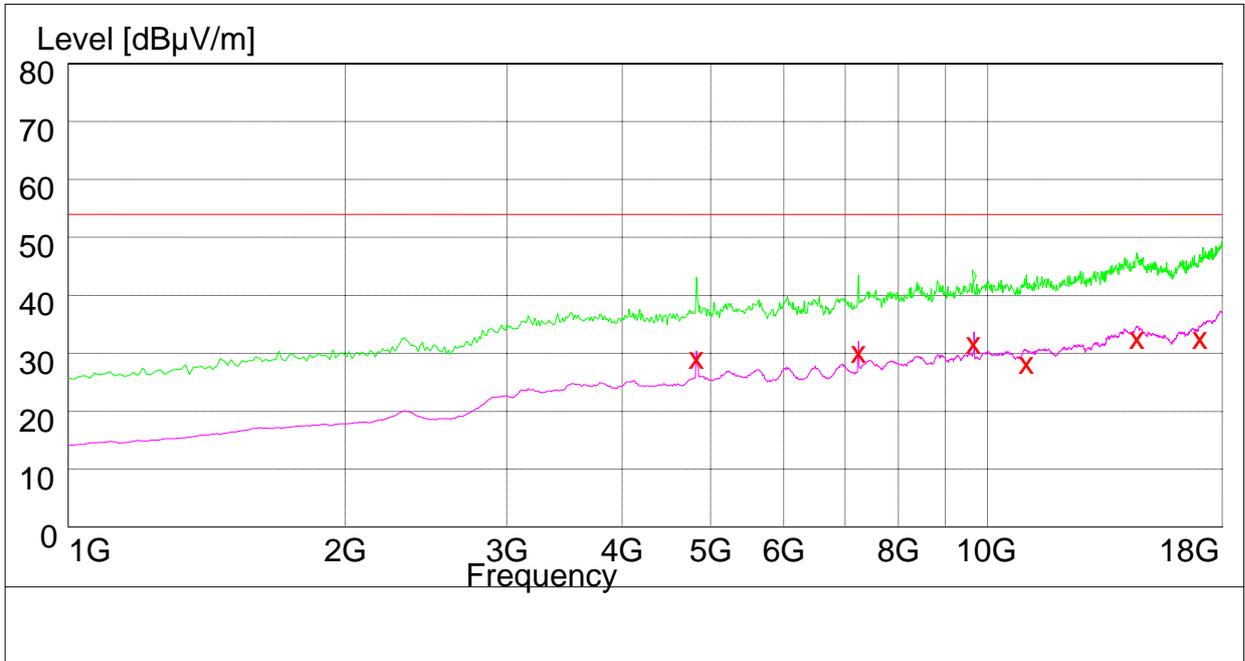
30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.404000	26.70	11.7	40.0	13.3	112.0	45.00	VERTICAL
53.636000	20.30	12.7	40.0	19.7	100.0	155.00	VERTICAL
142.224000	20.80	8.8	43.5	22.7	100.0	341.00	HORIZONTAL
177.024000	20.10	10.7	43.5	23.4	100.0	0.00	VERTICAL
538.156000	28.50	21.1	46.0	17.5	100.0	202.00	HORIZONTAL
958.988000	35.10	26.8	46.0	10.9	115.0	295.00	VERTICAL



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
4824.100000	29.10	-4.1	54.0	24.9	100.0	69.00	HORIZONTAL
7237.400000	30.40	0.6	54.0	23.6	153.0	282.00	VERTICAL
9648.100000	31.70	5.2	54.0	22.3	154.0	125.00	HORIZONTAL
11018.700000	29.90	6.8	54.0	24.1	105.0	180.00	VERTICAL
14539.000000	34.20	12.3	54.0	19.8	152.0	38.00	VERTICAL
17020.800000	34.20	13.2	54.0	19.8	120.0	231.00	HORIZONTAL

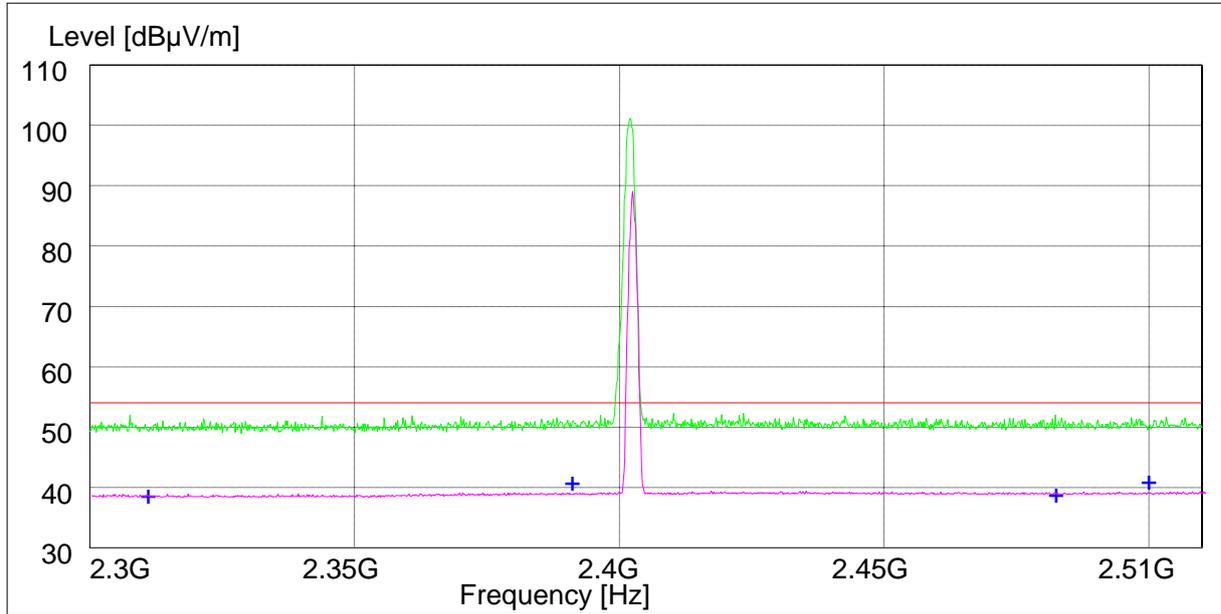


18GHz to 26GHz

Note: No peak found in pre- test.



2.30GHz to 2.51GHz

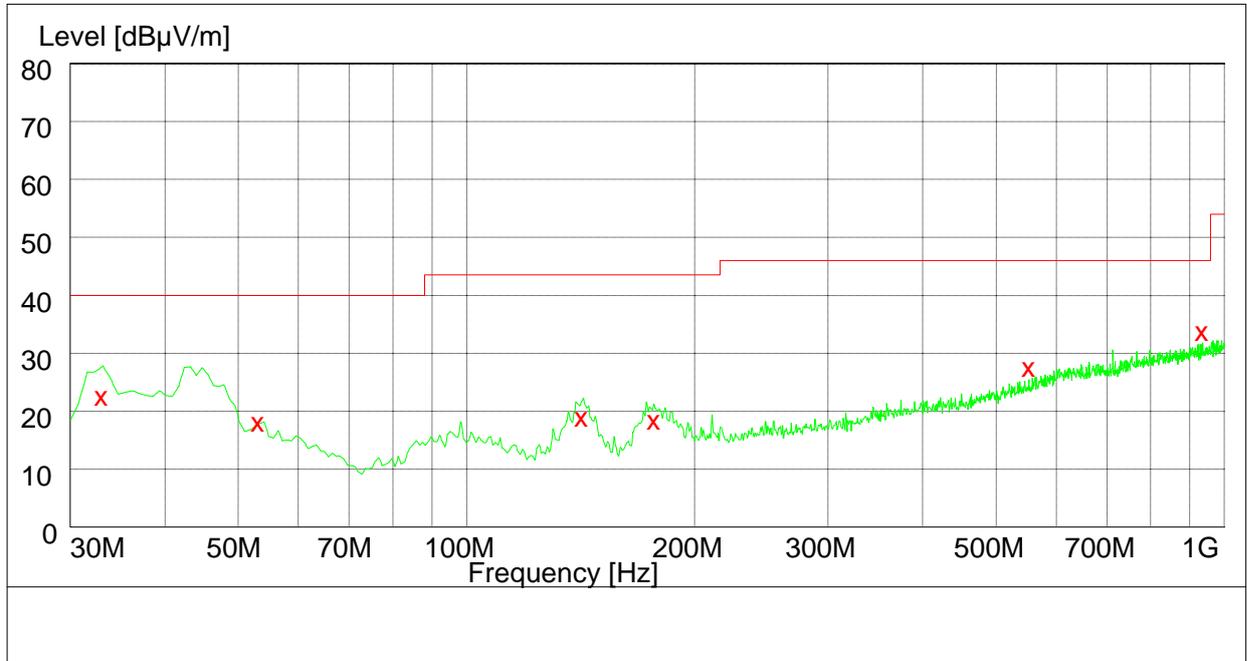


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	39.50	33.3	54.0	14.5	100.0	345.00	HORIZONTAL
2390.000000	40.50	33.5	54.0	13.5	106.0	218.00	HORIZONTAL
2483.500000	39.80	33.7	54.0	14.2	109.0	195.00	HORIZONTAL
2500.000000	40.80	33.8	54.0	13.2	102.0	58.00	HORIZONTAL



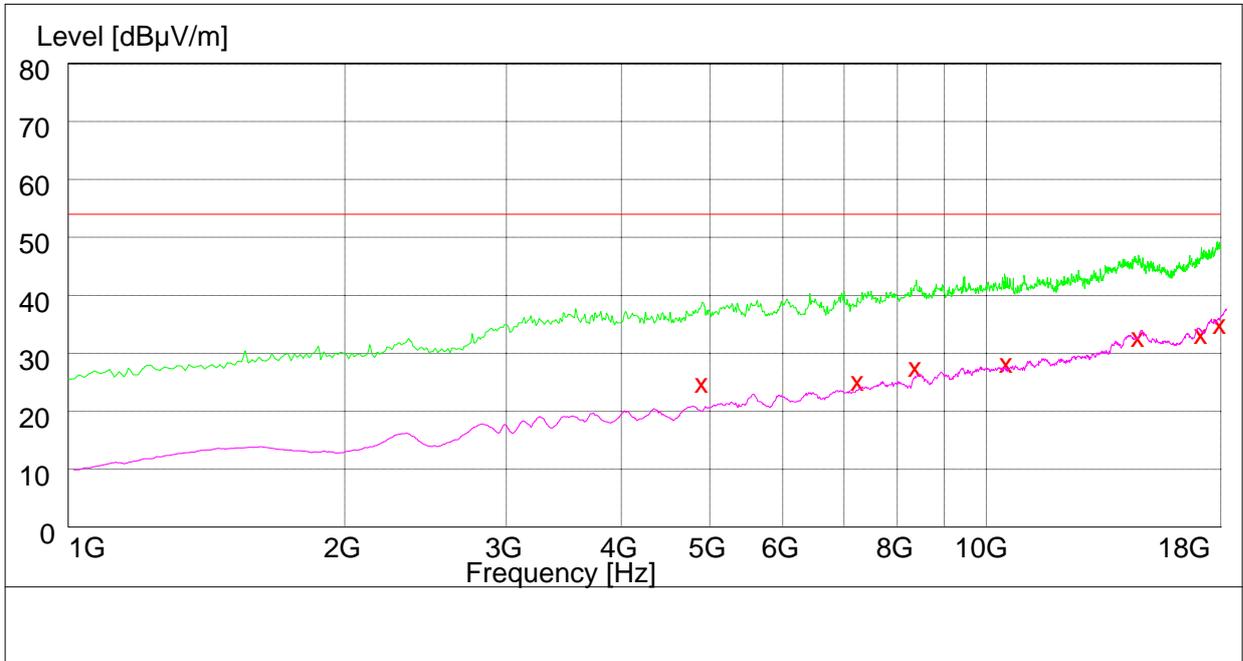
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/	Margin dB	Height cm	Azimuth deg	Polarization
33.044000	23.80	11.7	40.0	16.2	100.0	156.00	VERTICAL
53.156000	19.30	12.7	40.0	20.7	147.0	230.00	VERTICAL
142.040000	20.20	8.7	43.5	23.3	100.0	324.00	VERTICAL
177.084000	19.60	10.7	43.5	23.9	100.0	359.00	VERTICAL
552.728000	28.80	21.4	46.0	17.2	150.0	24.00	VERTICAL
936.548000	34.90	26.5	46.0	11.1	100.0	42.00	VERTICAL



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
4904.700000	26.00	-3.9	54.0	28.0	114.0	235.00	VERTICAL
7247.900000	26.40	0.6	54.0	27.6	125.0	127.00	VERTICAL
8377.300000	28.70	2.9	54.0	25.3	102.0	125.00	HORIZONTAL
10518.500000	29.50	5.7	54.0	24.5	100.0	72.00	VERTICAL
14653.400000	34.00	11.9	54.0	20.0	165.0	170.00	HORIZONTAL
17147.700000	34.50	13.5	54.0	19.5	100.0	42.00	VERTICAL

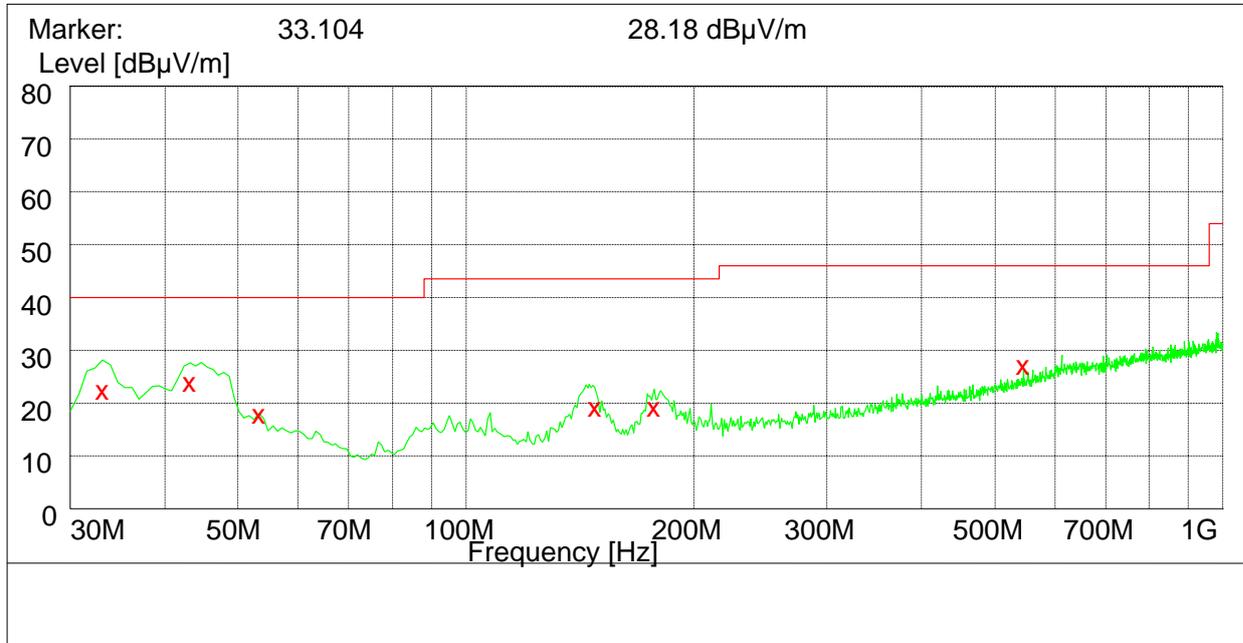


18GHz to 26GHz

Note: No peak found in pre- test.



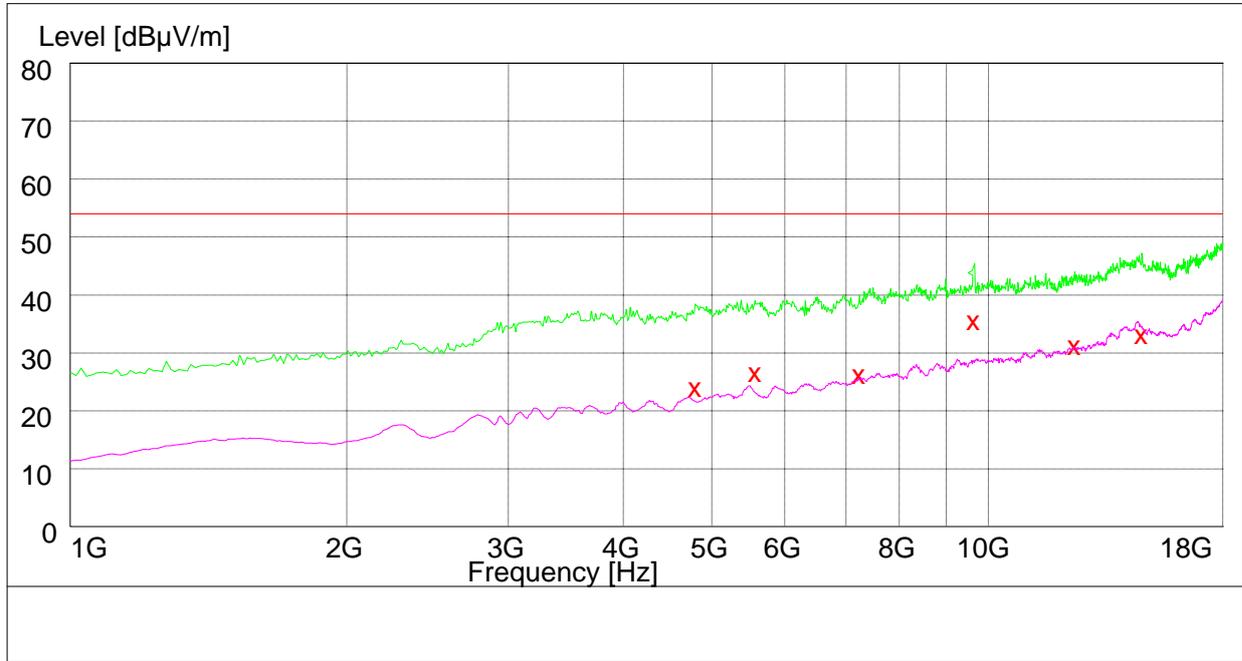
Channel 78 30MHz to 1GHz



Frequency MHz	Level dB μ V/m	Transd dB	Limit dB μ V/m	Margin dB	Height cm	Azimuth deg	Polarization
33.254000	23.70	11.7	40.0	16.3	114.0	147.00	VERTICAL
43.192000	25.40	13.1	40.0	14.6	143.0	143.00	VERTICAL
53.336000	19.30	12.7	40.0	20.7	145.0	176.00	HORIZONTAL
148.325000	20.80	8.9	43.5	22.7	103.0	30.00	VERTICAL
178.124000	20.80	10.7	43.5	22.7	109.0	359.00	HORIZONTAL
544.125000	29.00	21.3	46.0	17.0	103.0	274.00	VERTICAL



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
4799.900000	25.20	-4.1	54.0	28.8	100.0	73.00	HORIZONTAL
5576.600000	26.60	-2.3	54.0	27.4	100.0	0.00	HORIZONTAL
7235.400000	27.50	0.6	54.0	26.5	198.0	96.00	VERTICAL
9647.100000	36.70	5.2	54.0	17.3	110.0	53.00	VERTICAL
12422.000000	30.90	7.9	54.0	23.1	198.0	333.00	HORIZONTAL
14689.200000	33.70	11.8	54.0	20.3	200.0	72.00	VERTICAL

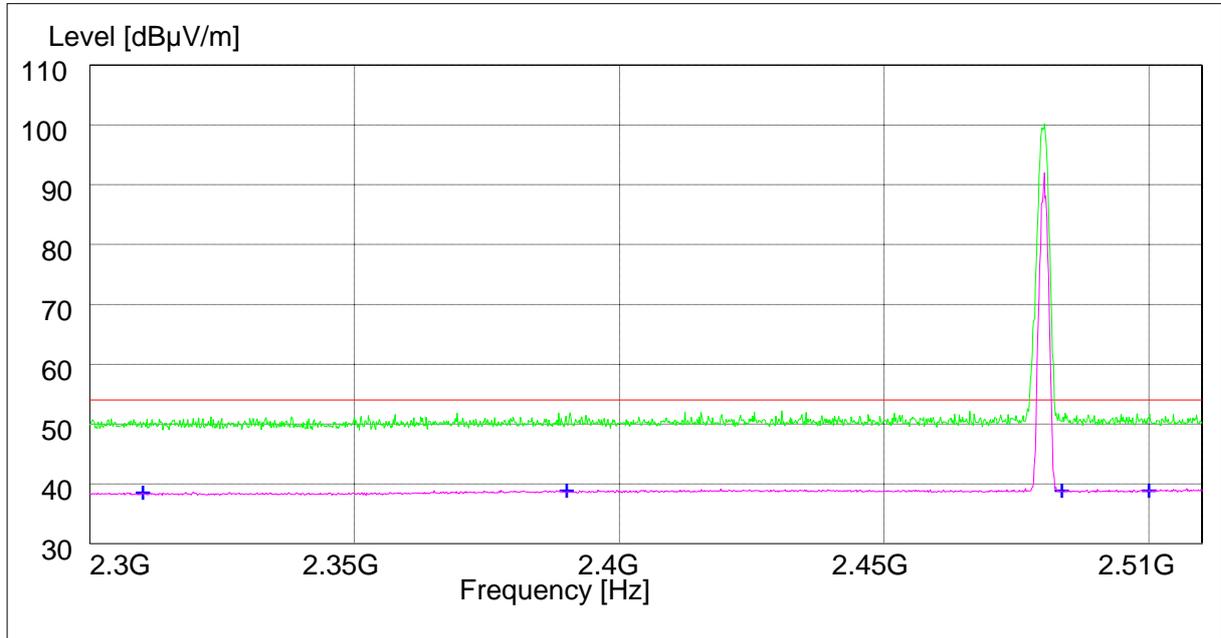


18GHz to 26GHz

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	39.40	33.7	54.0	14.6	152.0	18.00	VERTICAL
2390.000000	39.60	33.7	54.0	14.4	122.0	58.00	VERTICAL
2483.500000	39.80	33.7	54.0	14.2	127.0	158.00	VERTICAL
2500.000000	39.50	33.7	54.0	14.5	125.0	208.00	VERTICAL



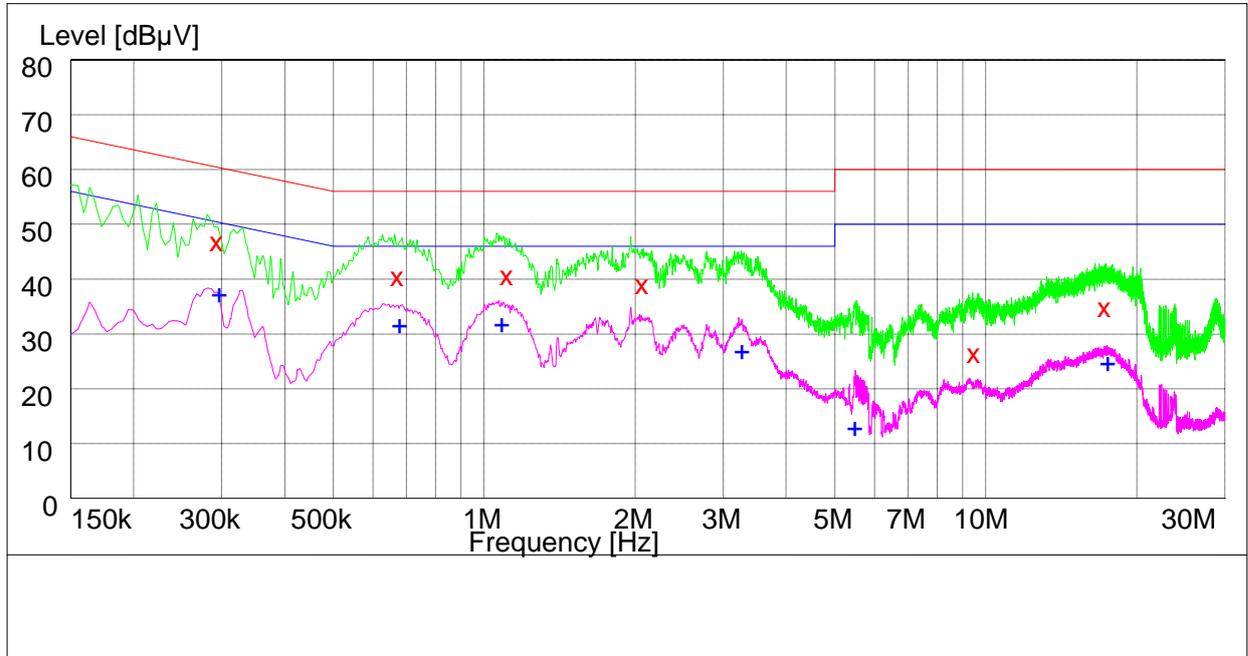
Appendix I

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
0.294000	48.10	10.0	60	11.9	N	GND
0.672000	41.80	10.1	56	14.2	N	GND
1.114000	42.00	10.1	56	14.0	N	GND
2.072000	40.40	10.1	56	15.6	N	GND
9.508000	27.80	10.3	60	32.2	N	GND
17.318000	36.20	10.3	60	23.8	N	GND

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.296000	38.70	10.0	50	11.3	N	GND
0.678000	33.00	10.1	46	13.0	N	GND
1.084000	33.20	10.1	46	12.8	N	GND
3.262000	28.20	10.2	46	17.8	N	GND
5.476000	14.30	10.2	50	35.7	N	GND
17.528000	26.10	10.3	50	23.9	N	GND