



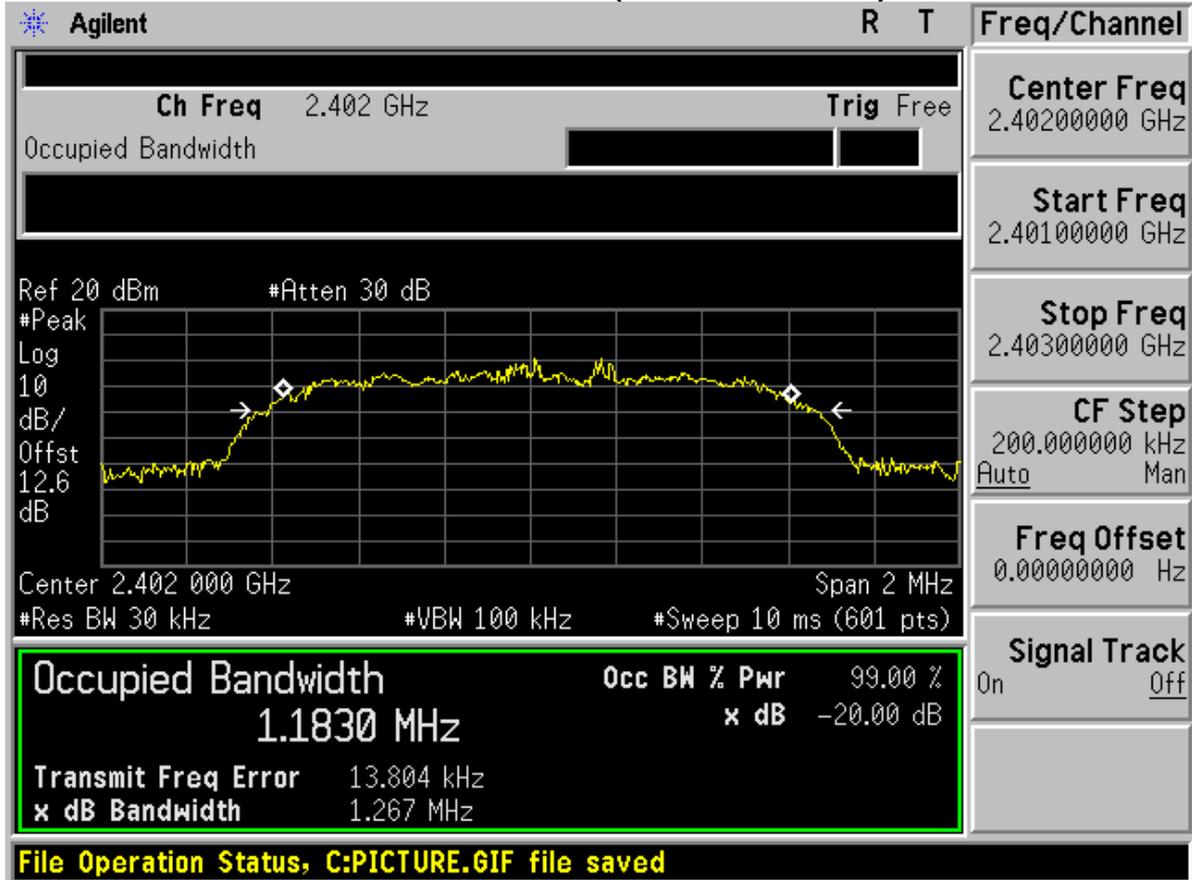
Appendix A

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

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

Ref 20 dBm #Atten 30 dB

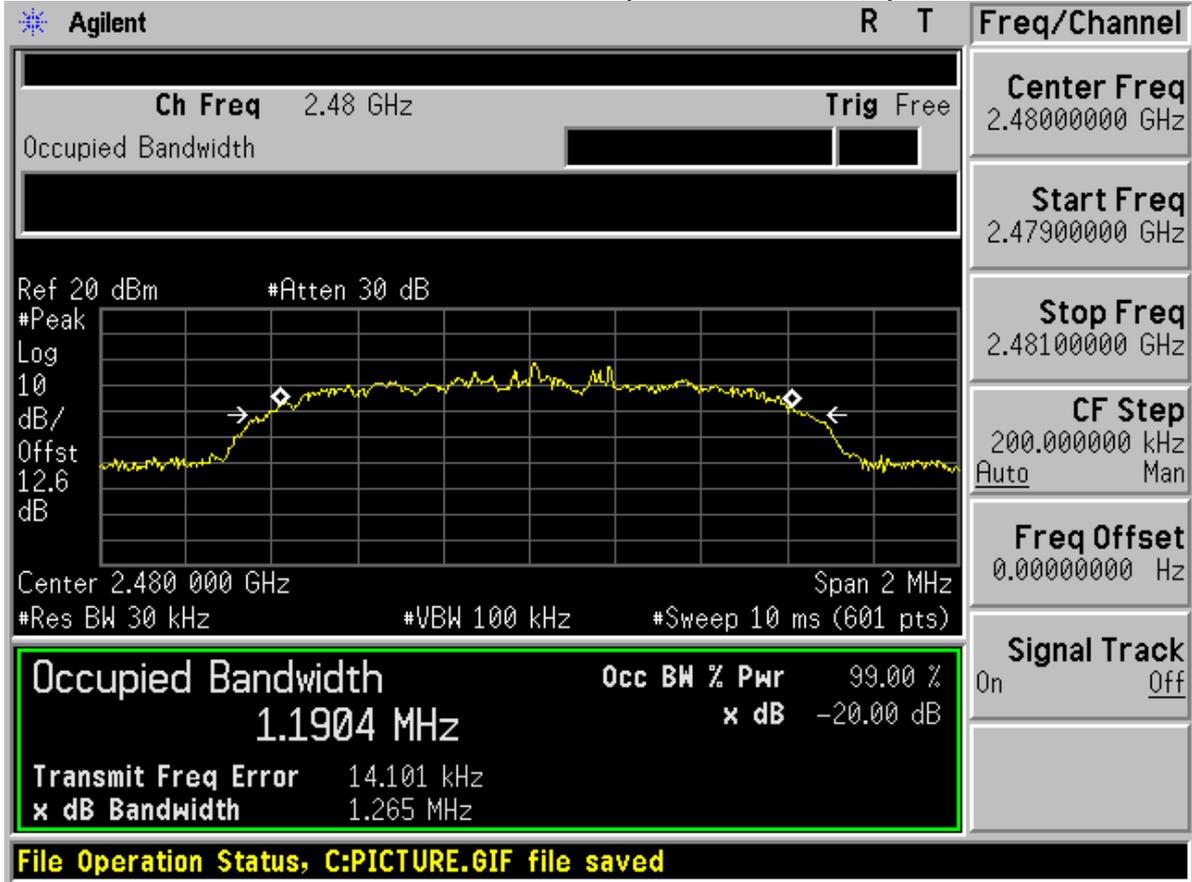
Center 2.442 000 GHz Span 2 MHz
#Res BW 30 kHz #VBW 100 kHz #Sweep 10 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
1.1856 MHz	x dB -20.00 dB
Transmit Freq Error 14.002 kHz	
x dB Bandwidth 1.275 MHz	

File Operation Status, C:PICTURE.GIF file saved

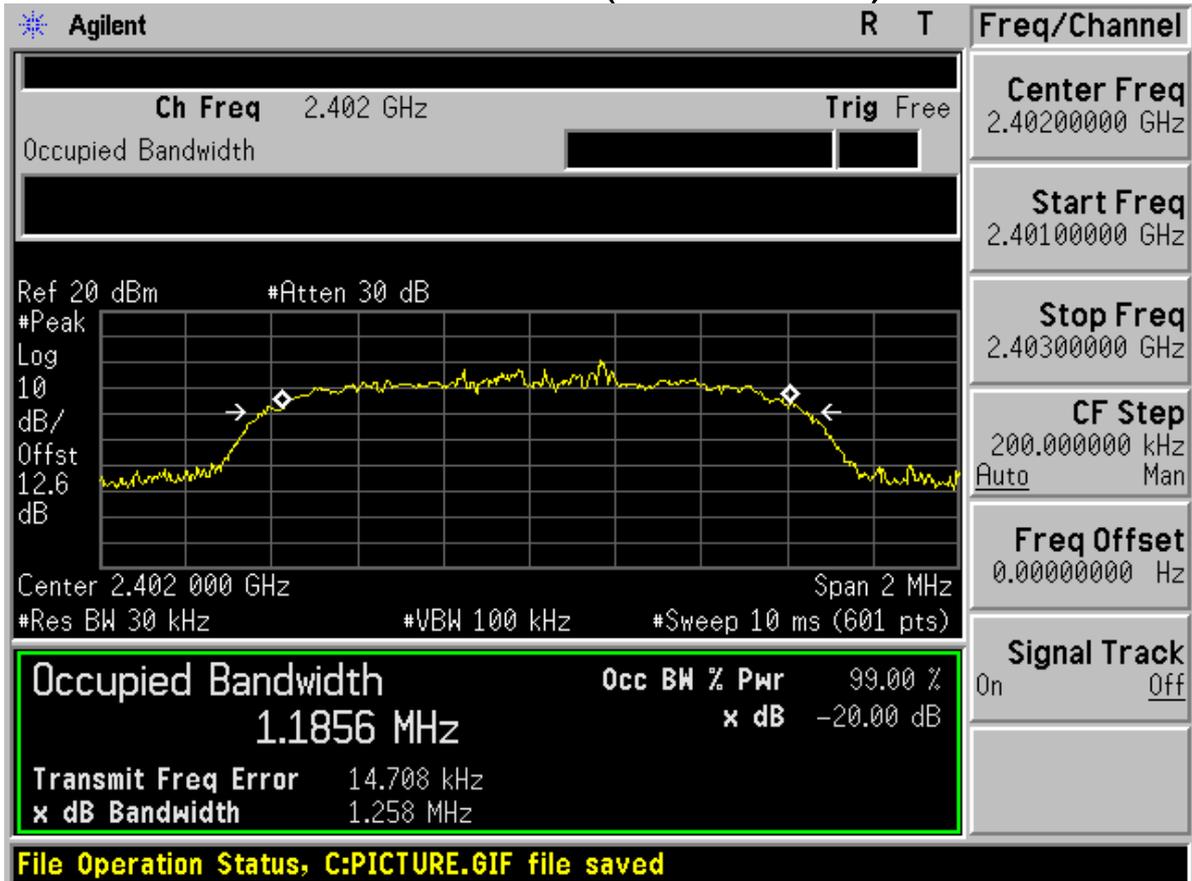


Channel 78 (2480MHz)



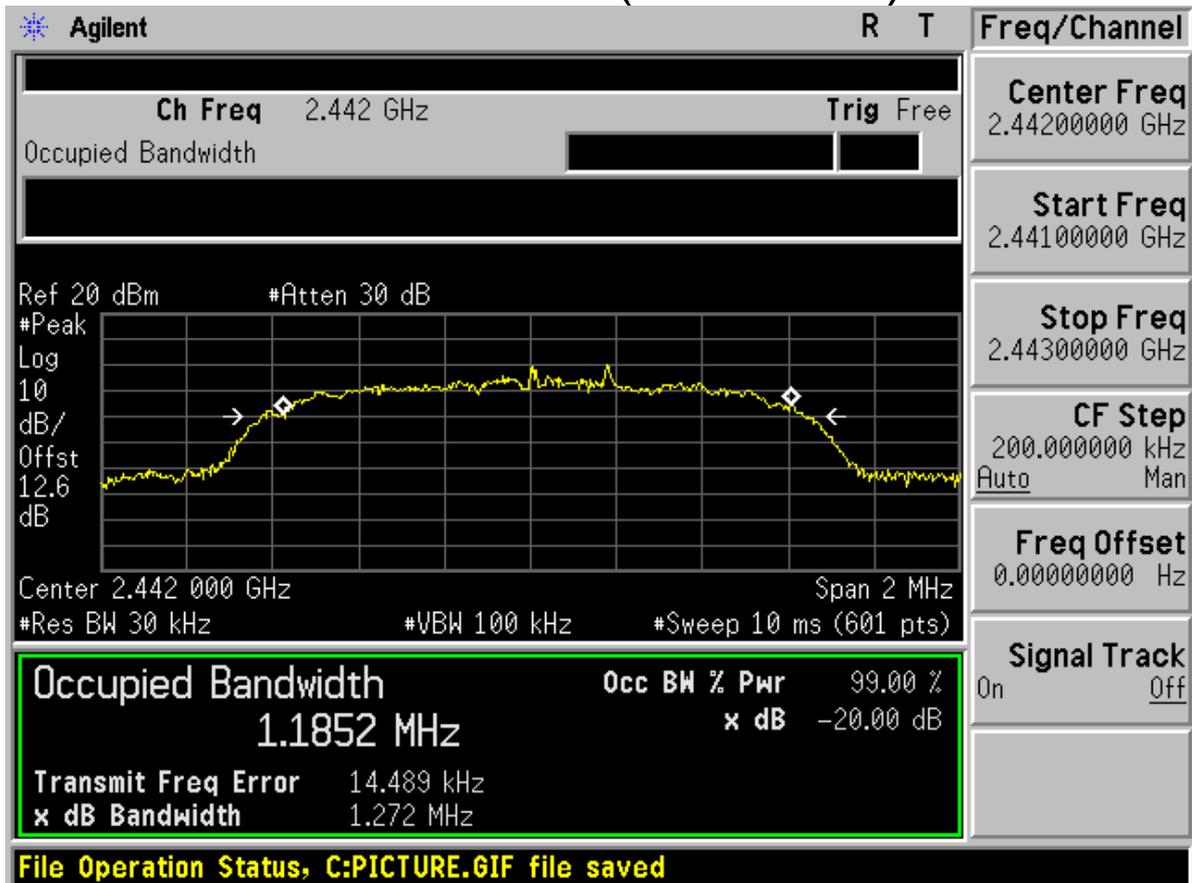


Modulation: 8DPSK Channel 0 (2402MHz)



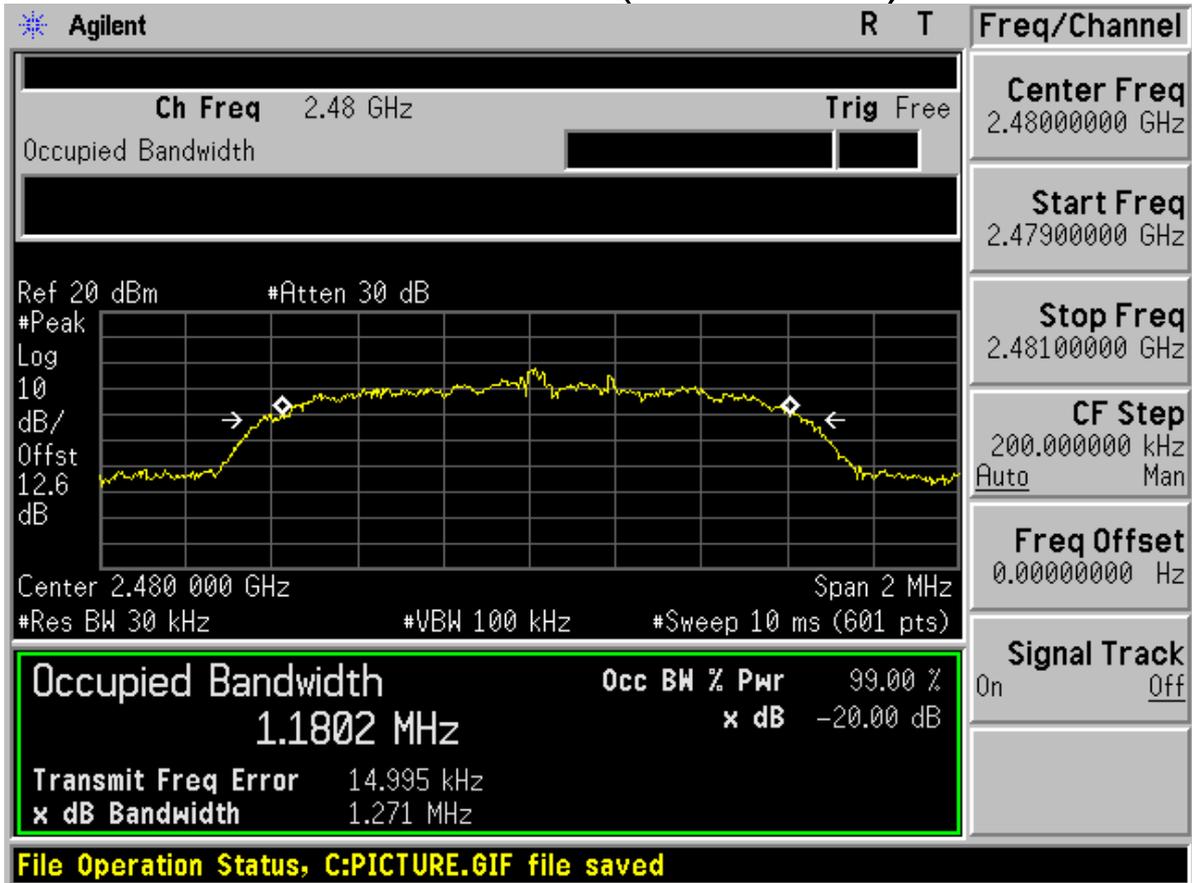


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix B

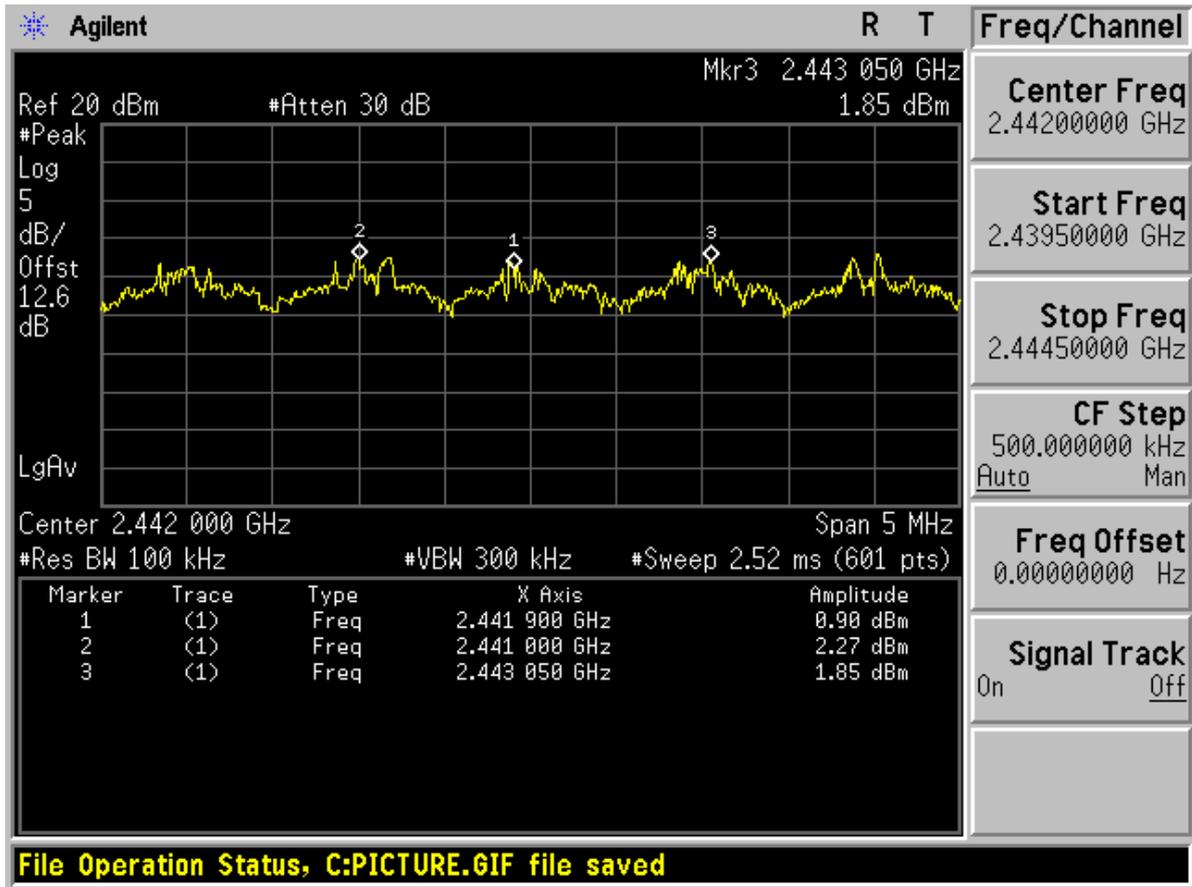
Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



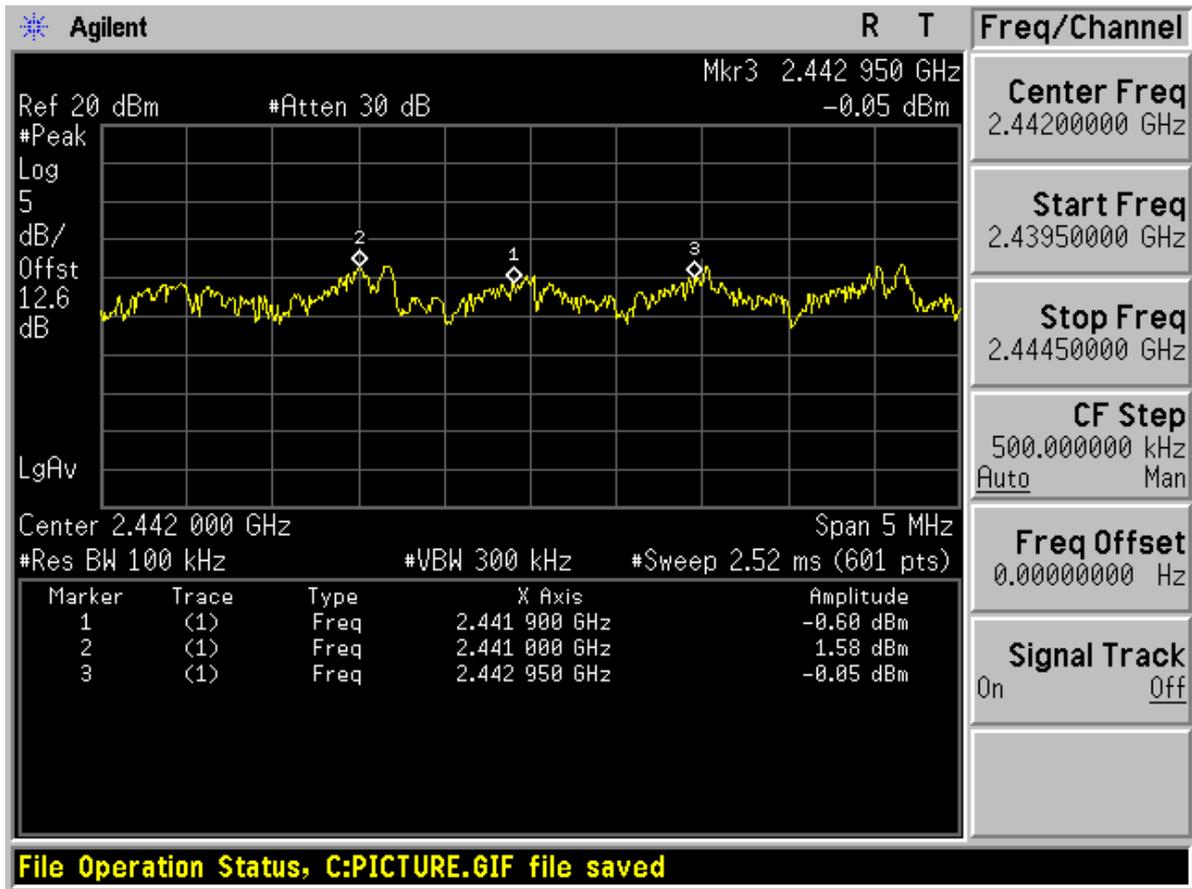
Modulation: $\pi/4$ -DQPSK

Centred at Channel 40





Modulation: 8DPSK Centred at Channel 40





Appendix C

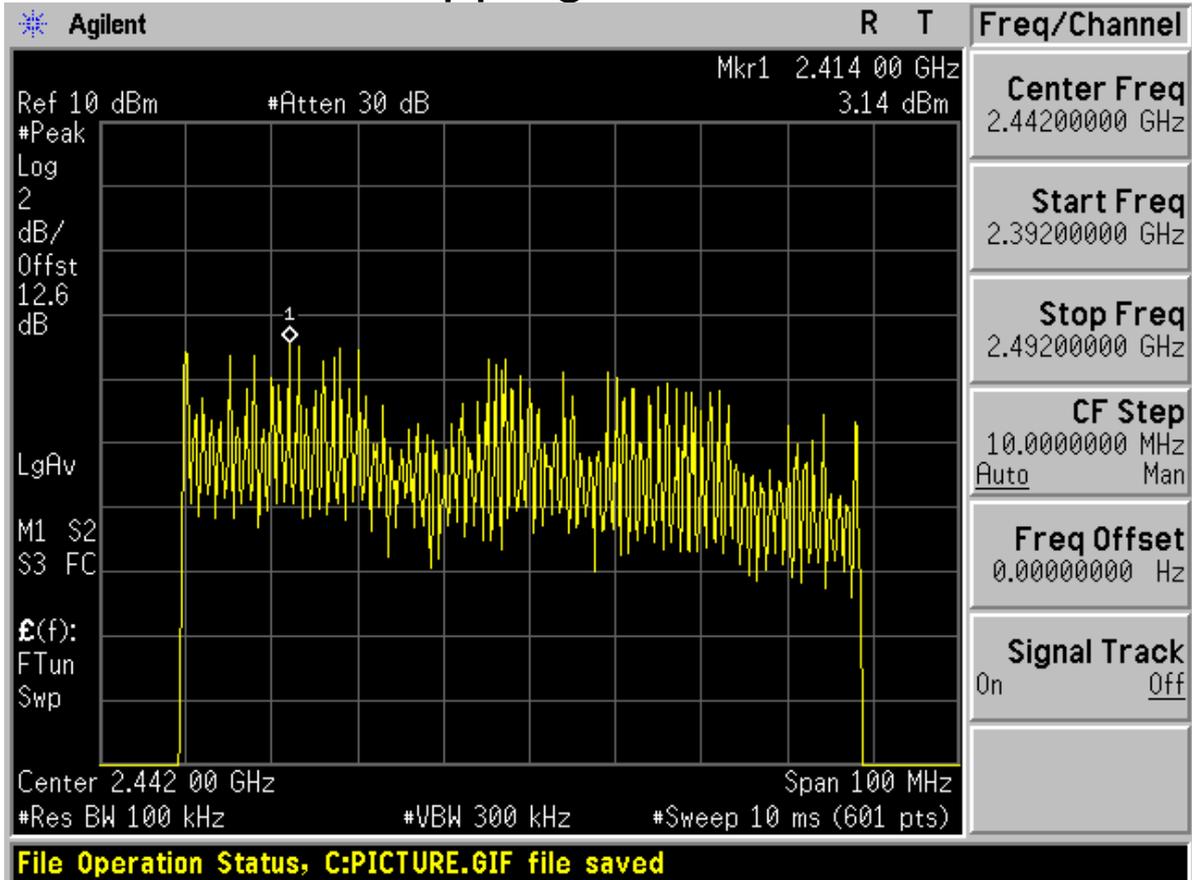
Number of hopping channel

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



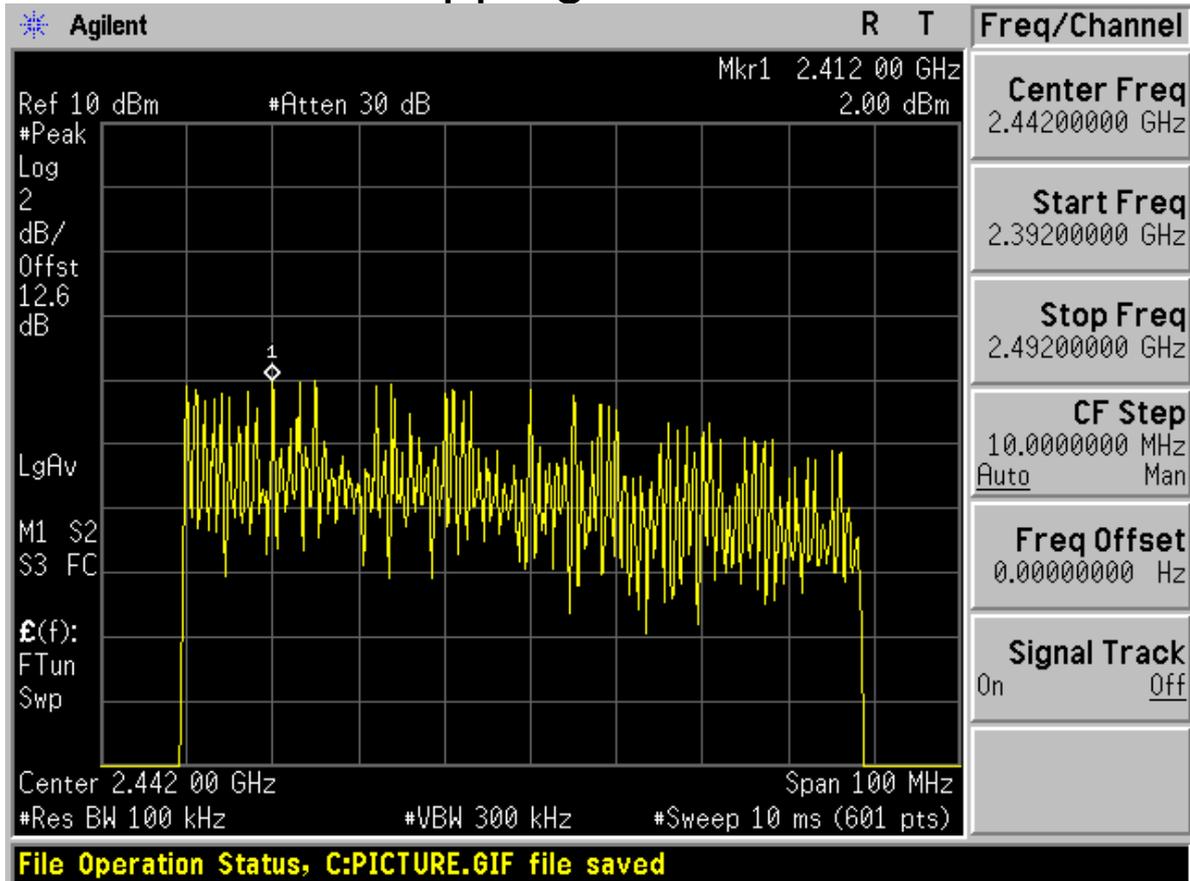
Modulation: $\pi/4$ -DQPSK

Total hopping channels = 79





Modulation: 8DPSK Total hopping channels = 79





Appendix D

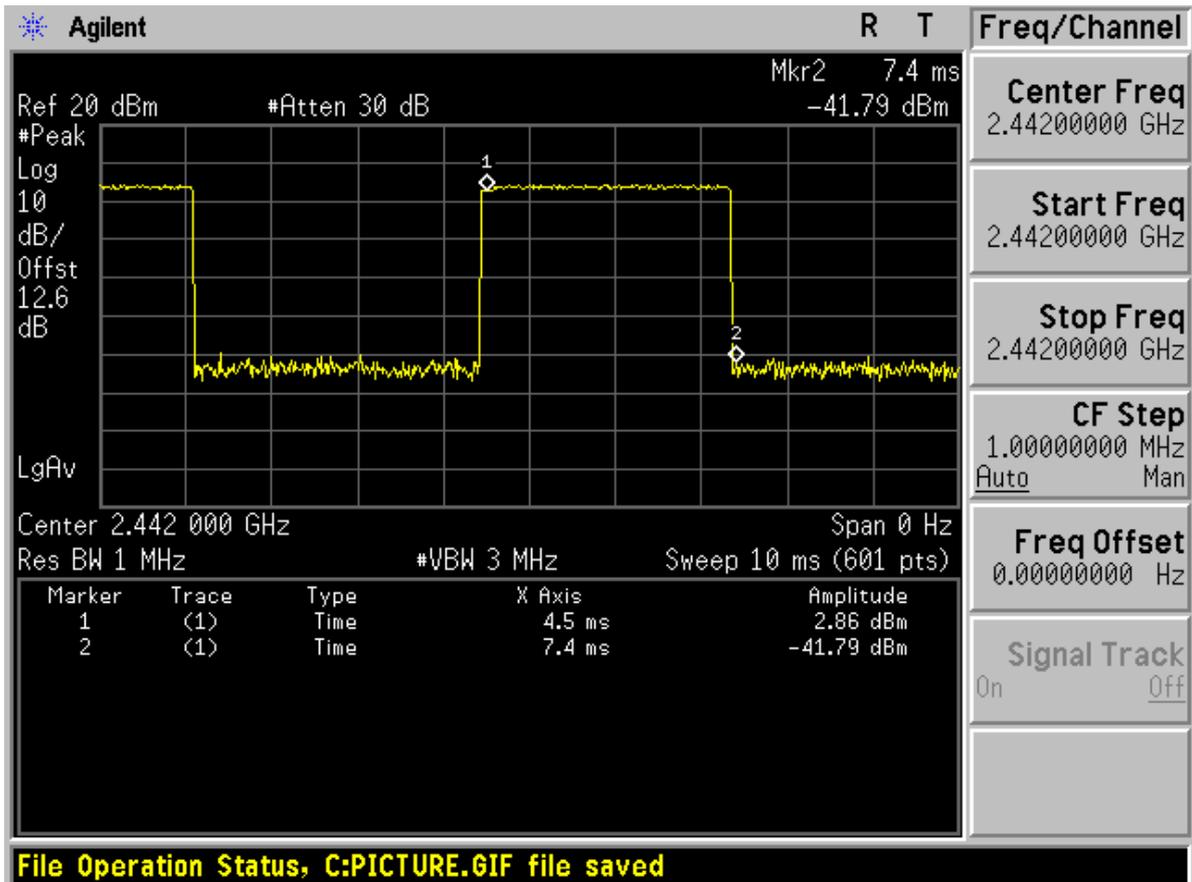
Time of occupancy

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



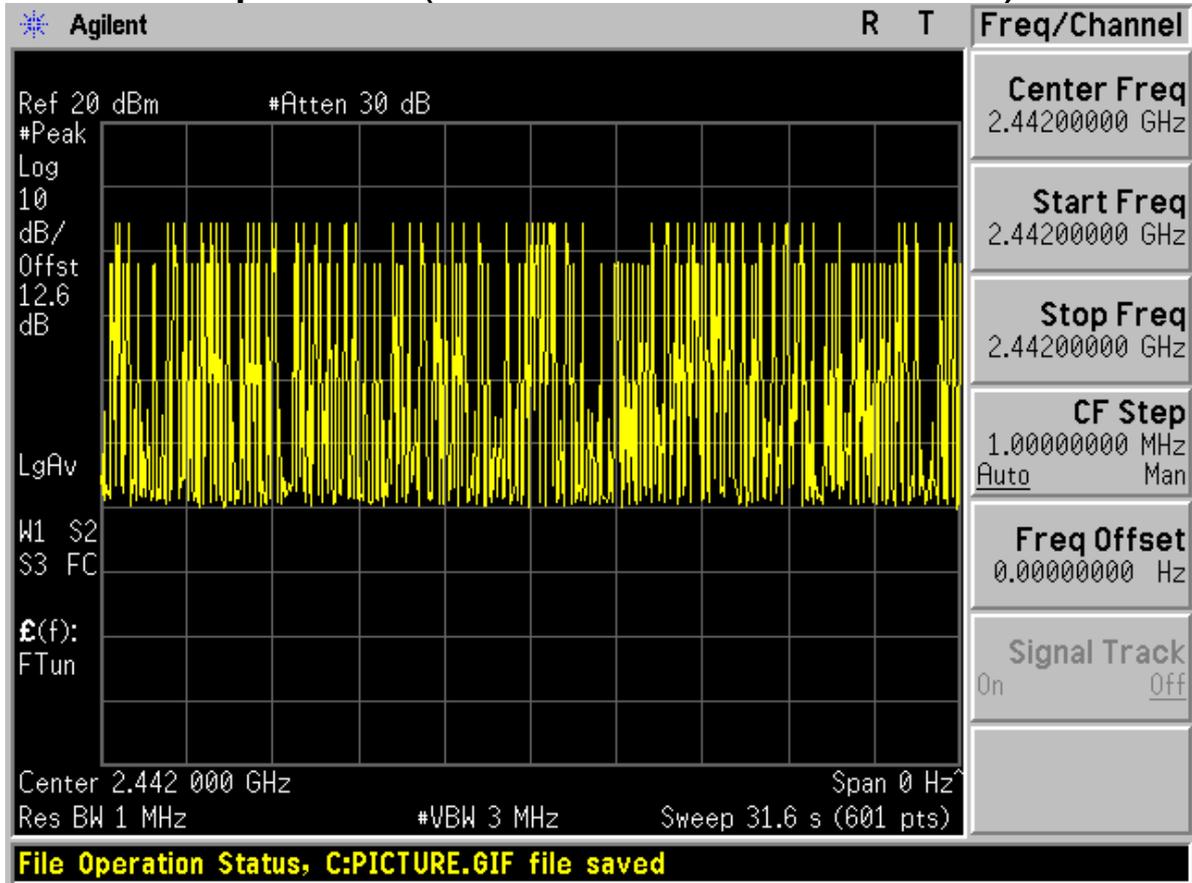
Modulation: $\pi/4$ -DQPSK

A burst (One time slot)





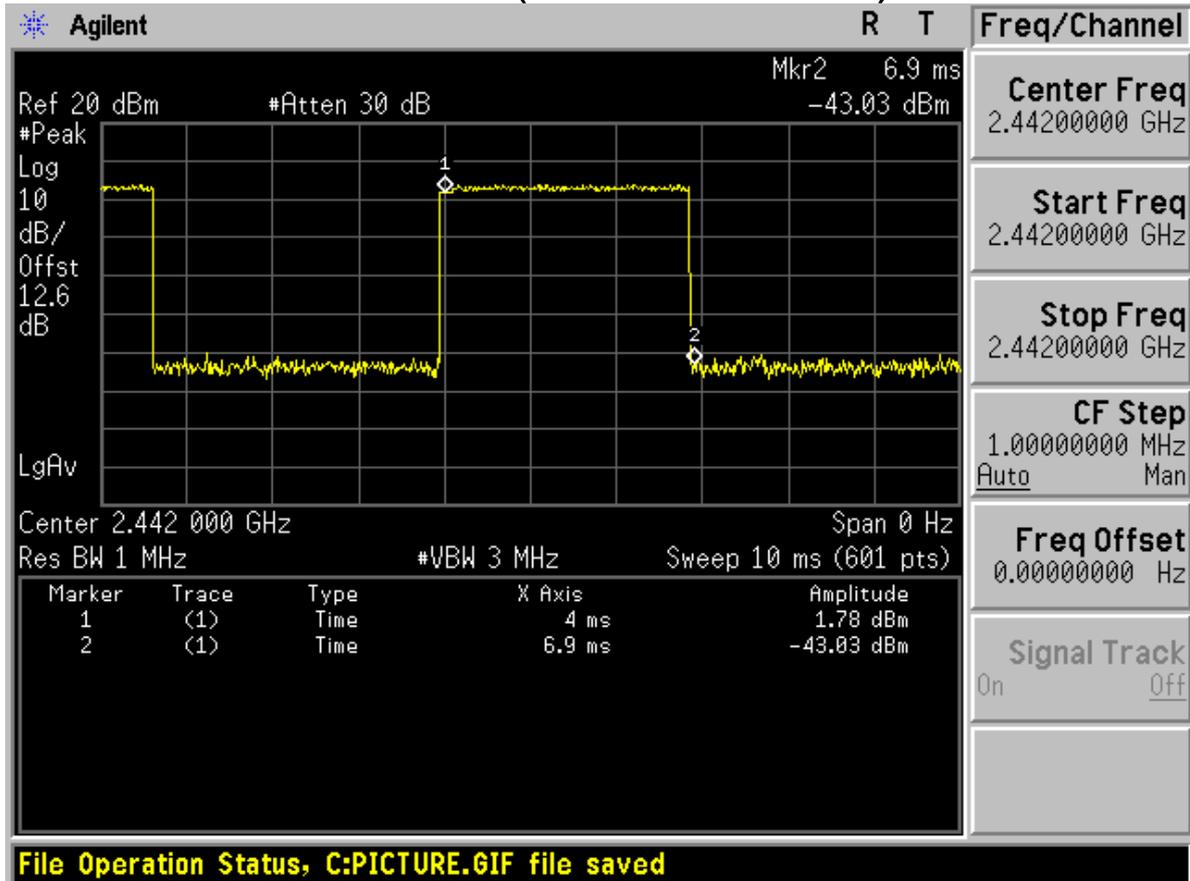
A period (Less than 106.7 burst)





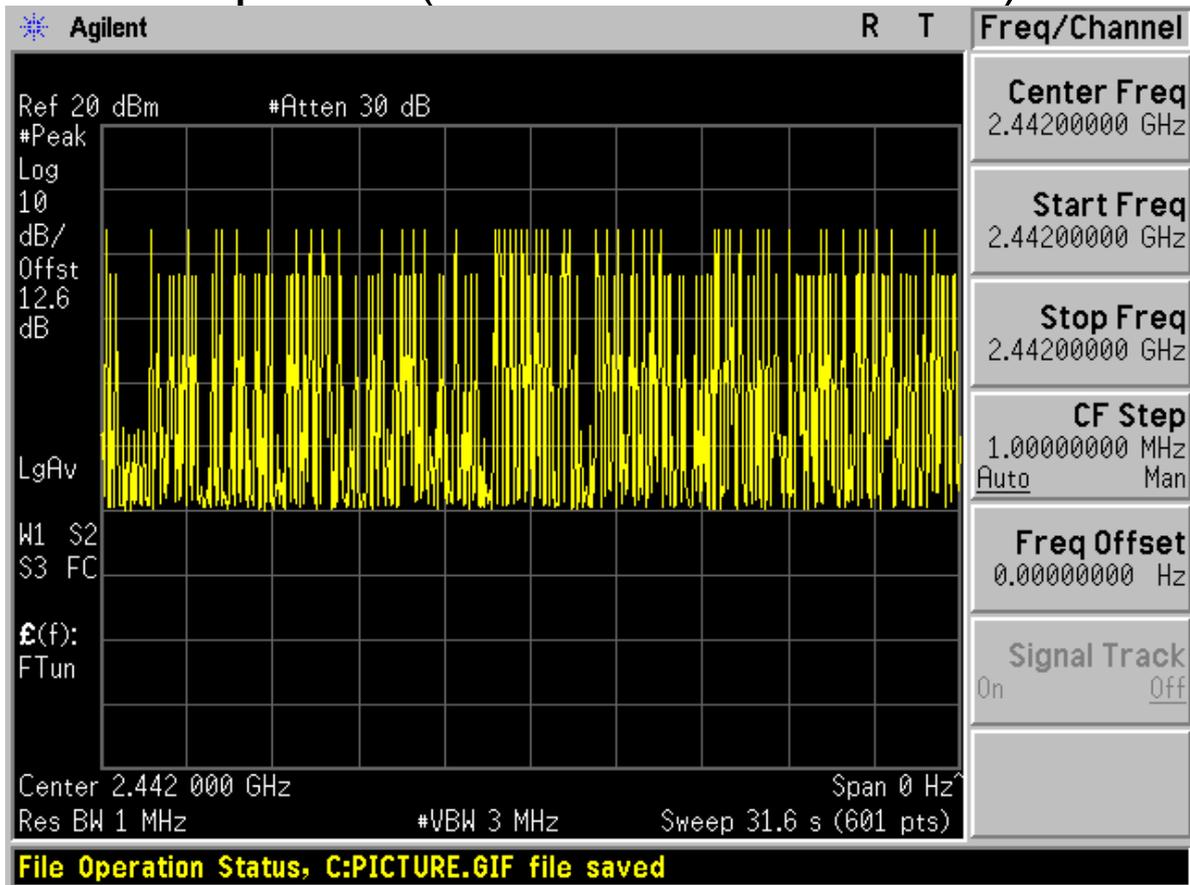
Modulation: 8DPSK

A burst (One time slot)





A period (Less than 106.7 burst)





Appendix E

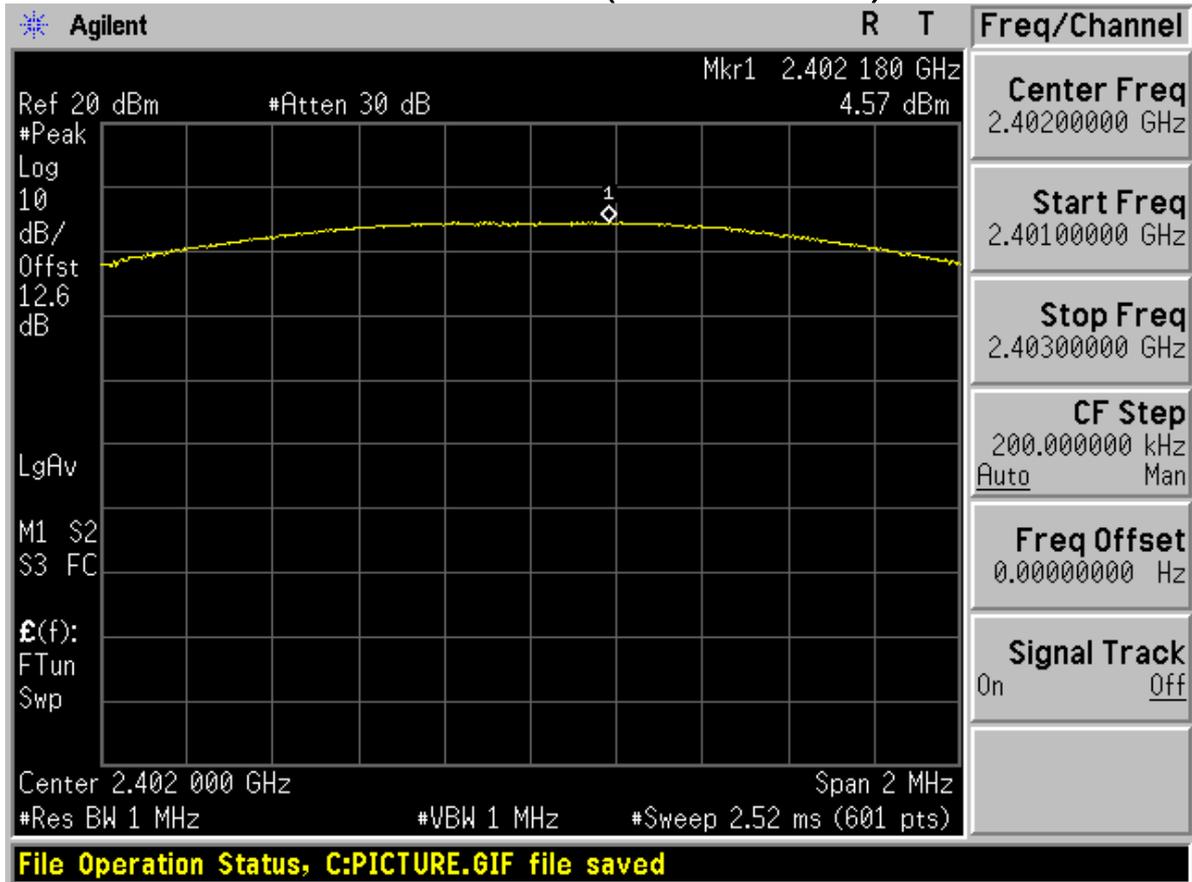
Peak output power

According to FCC Part 15.247 (b) (1)



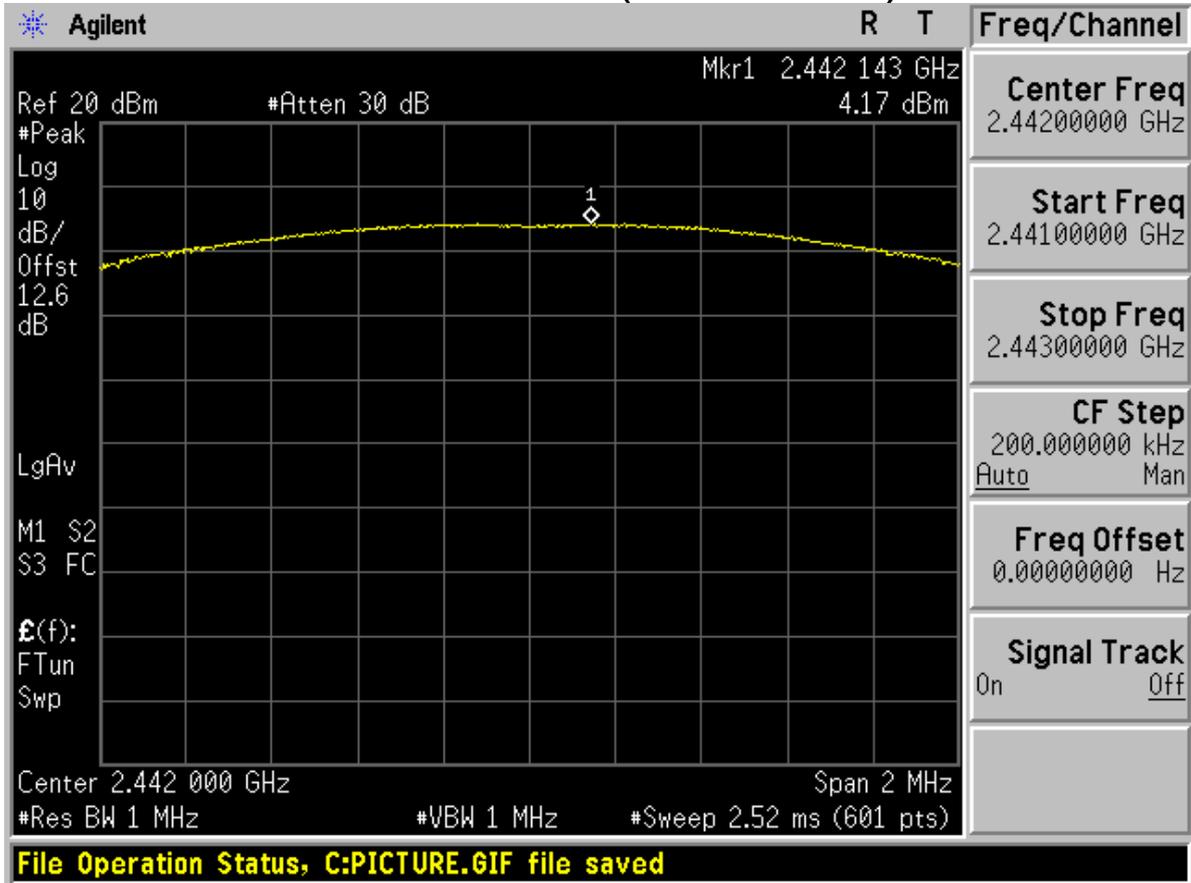
Modulation: $\pi/4$ -DQPSK

Channel 0 (2402MHz)



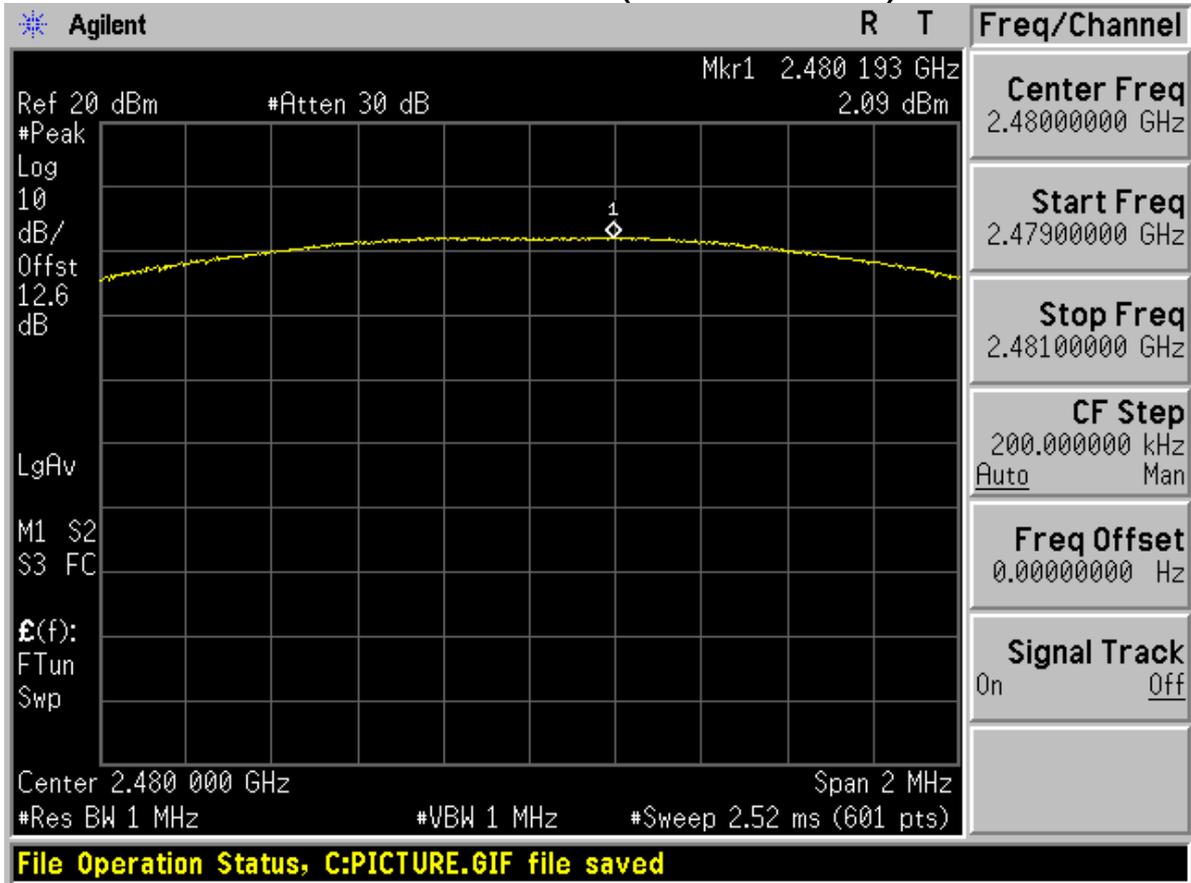


Channel 40 (2442MHz)



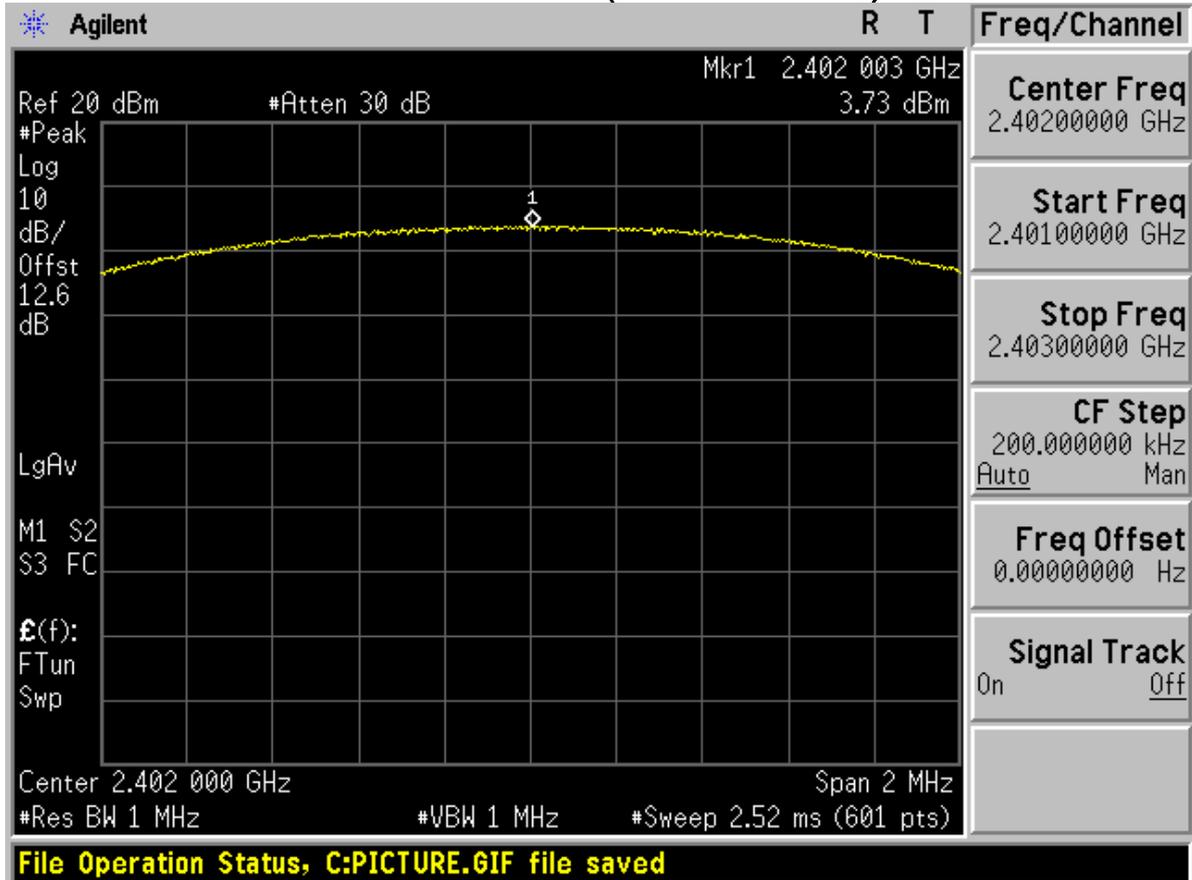


Channel 78 (2480MHz)



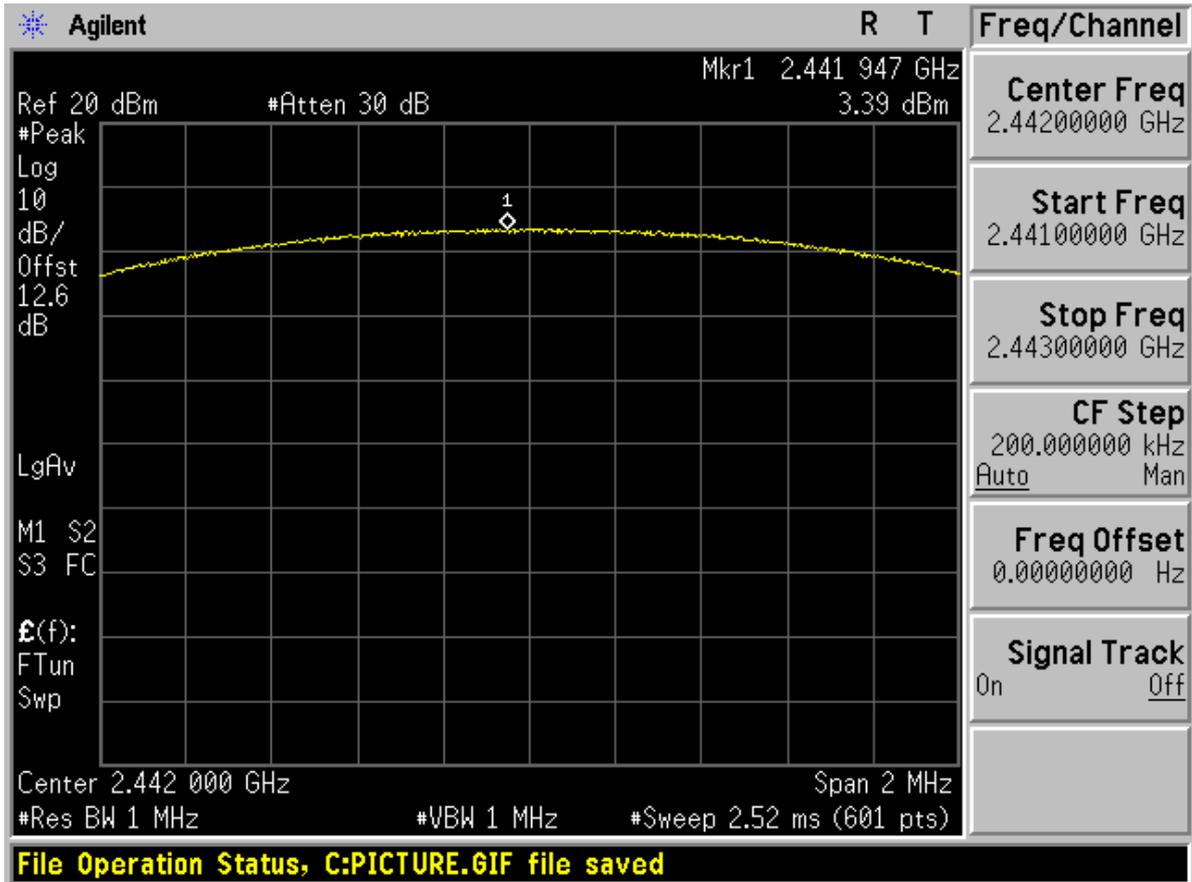


Modulation: 8DPSK Channel 0 (2402MHz)



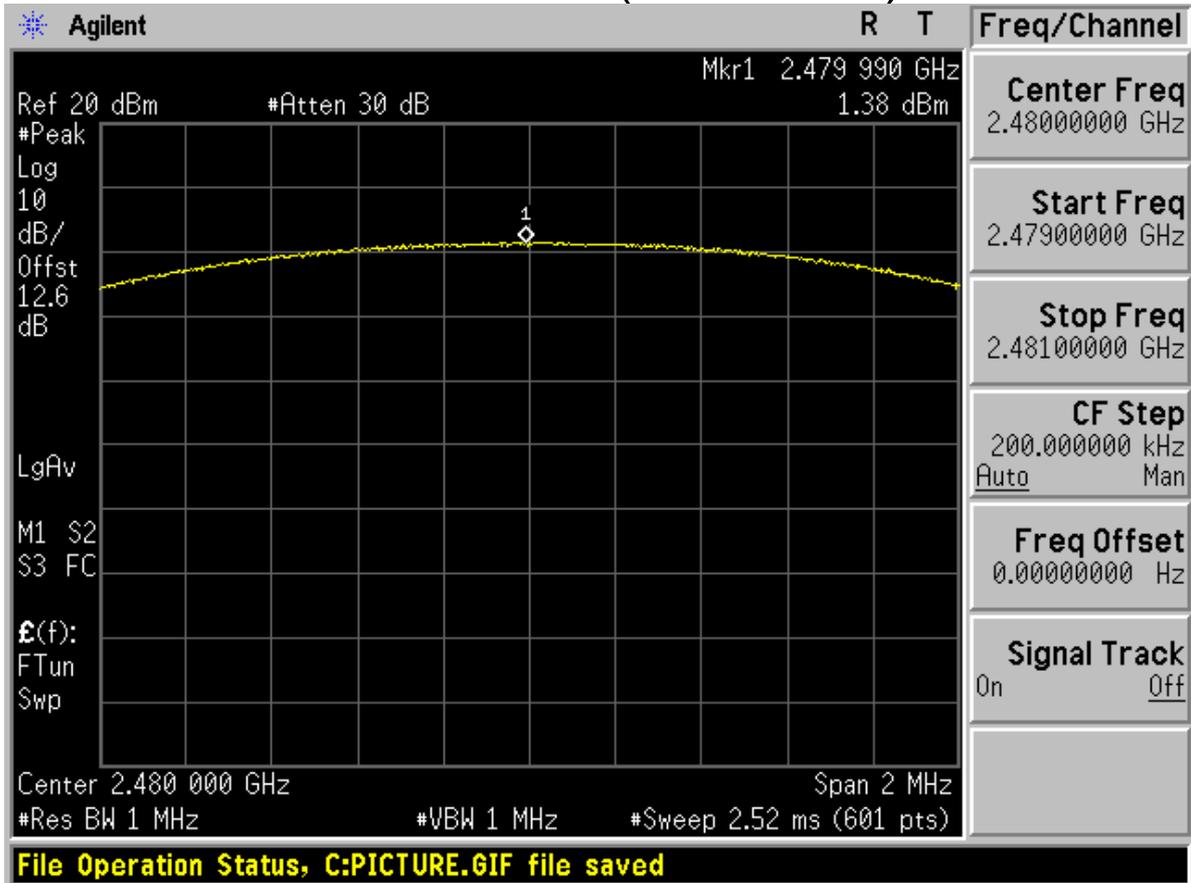


Channel 40 (2442MHz)





Channel 78 (2480MHz)





Appendix F

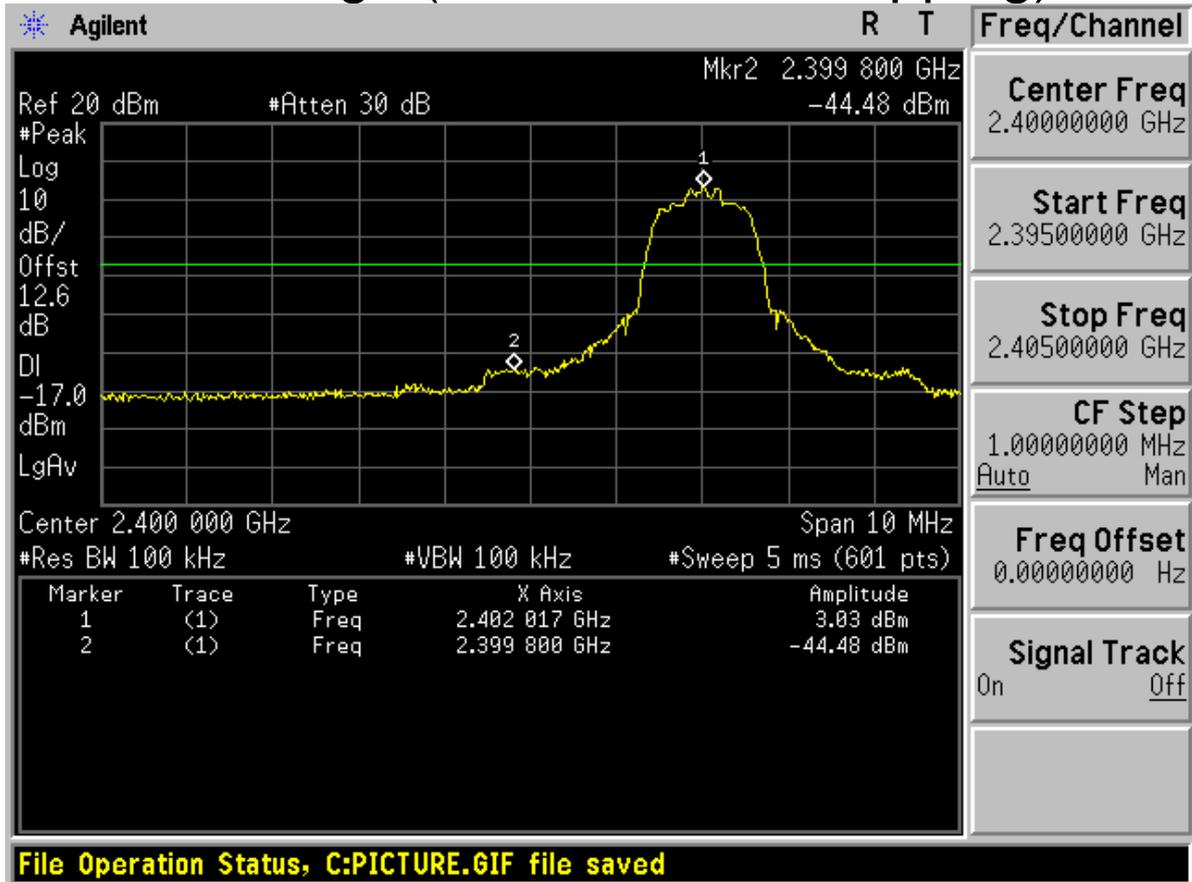
Band edge spurious emission

According to FCC Part 15.247 (d)



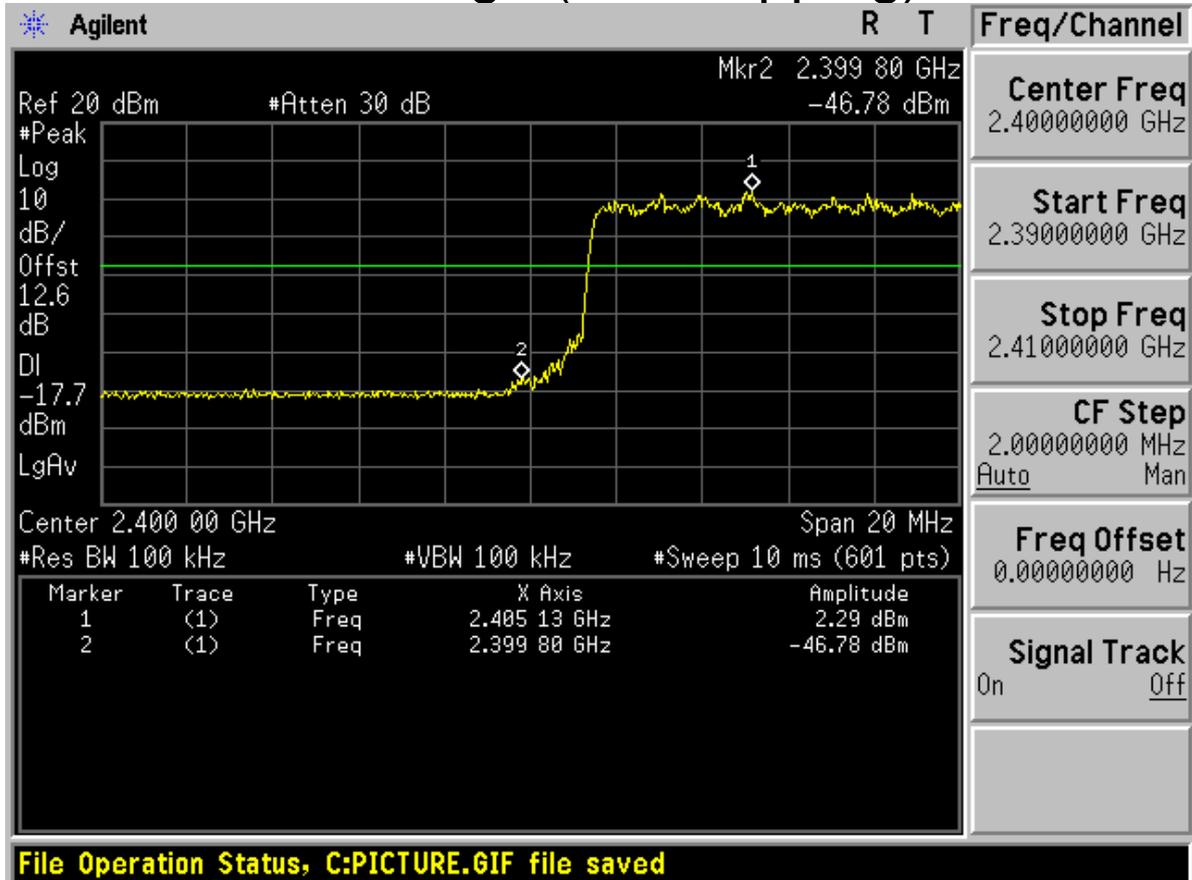
Modulation: $\pi/4$ -DQPSK

Low edge (Channel 0, no hopping)



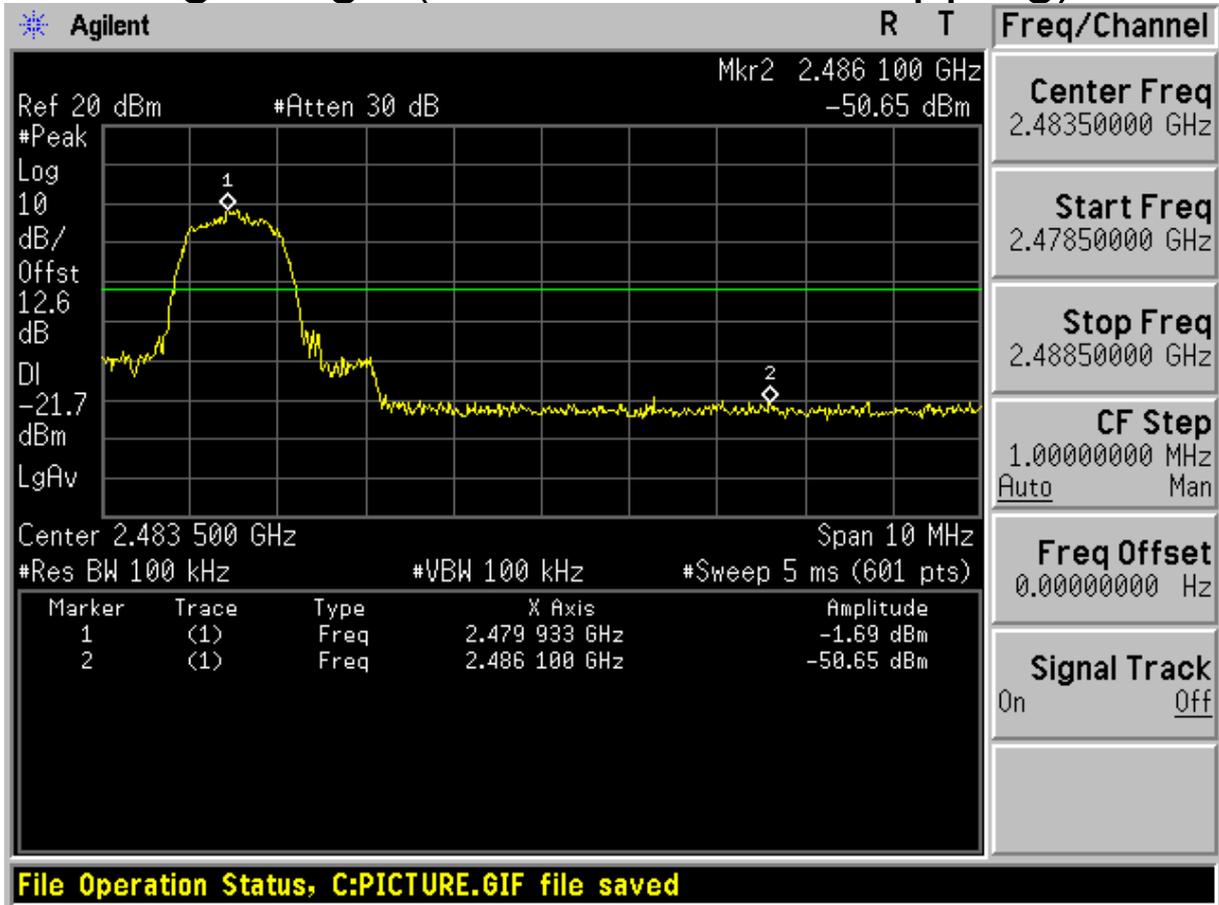


Low edge (with hopping)



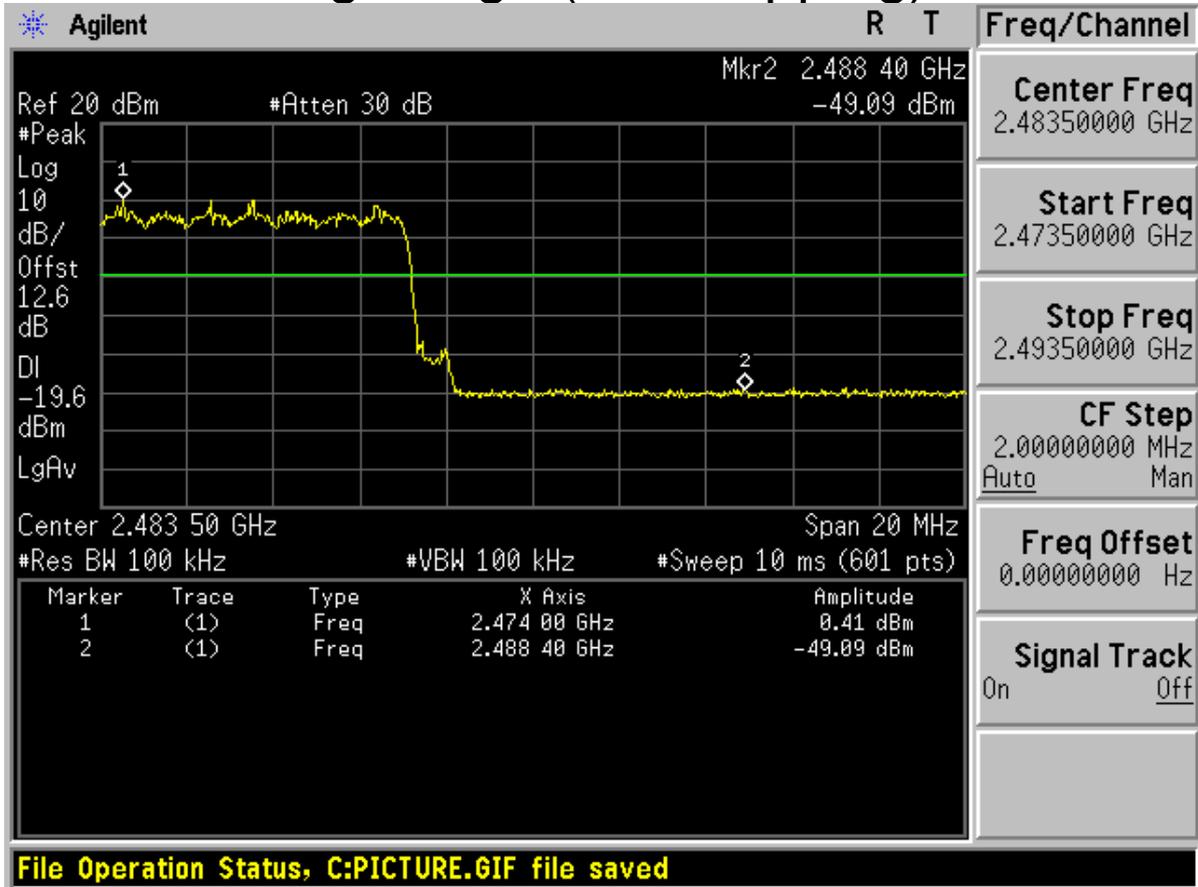


High edge (Channel 78, no hopping)



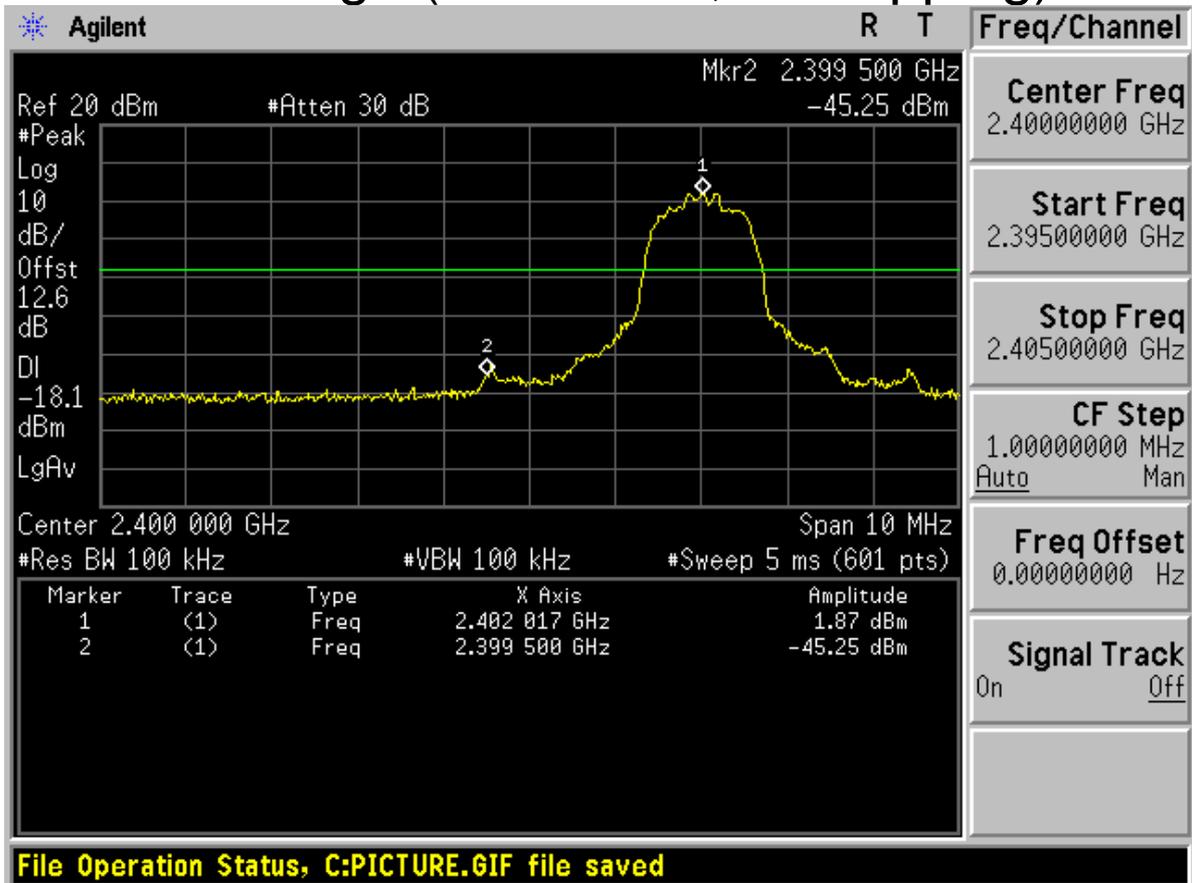


High edge (with hopping)



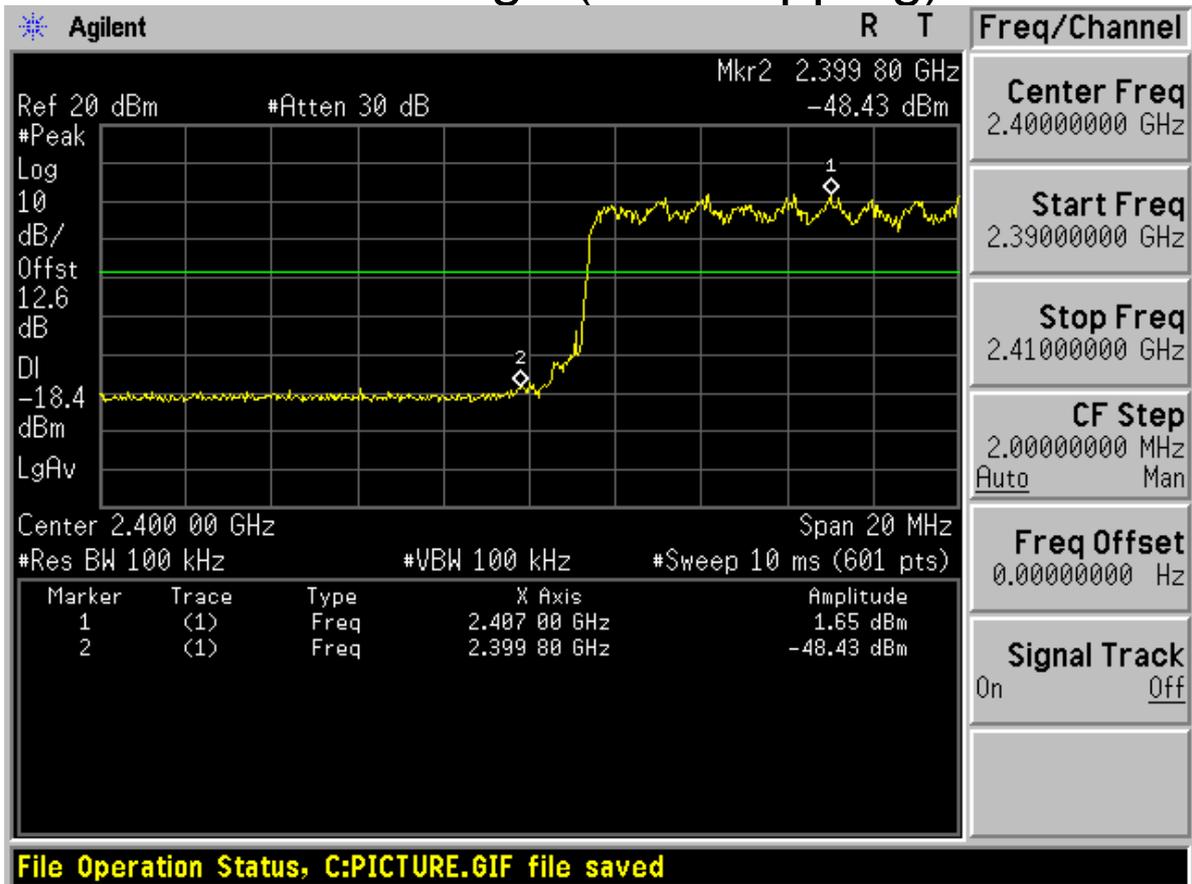


Modulation: 8DPSK Low edge (Channel 0, no hopping)



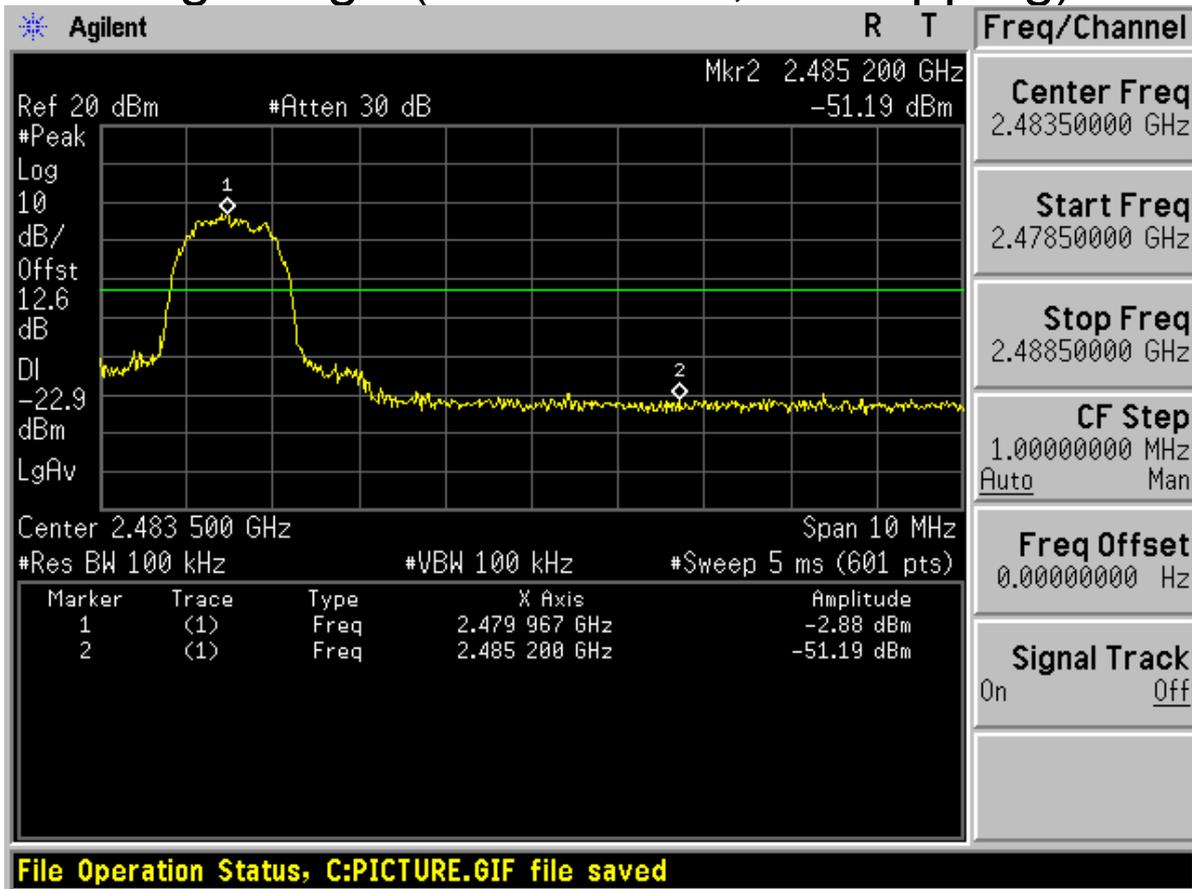


Low edge (with hopping)



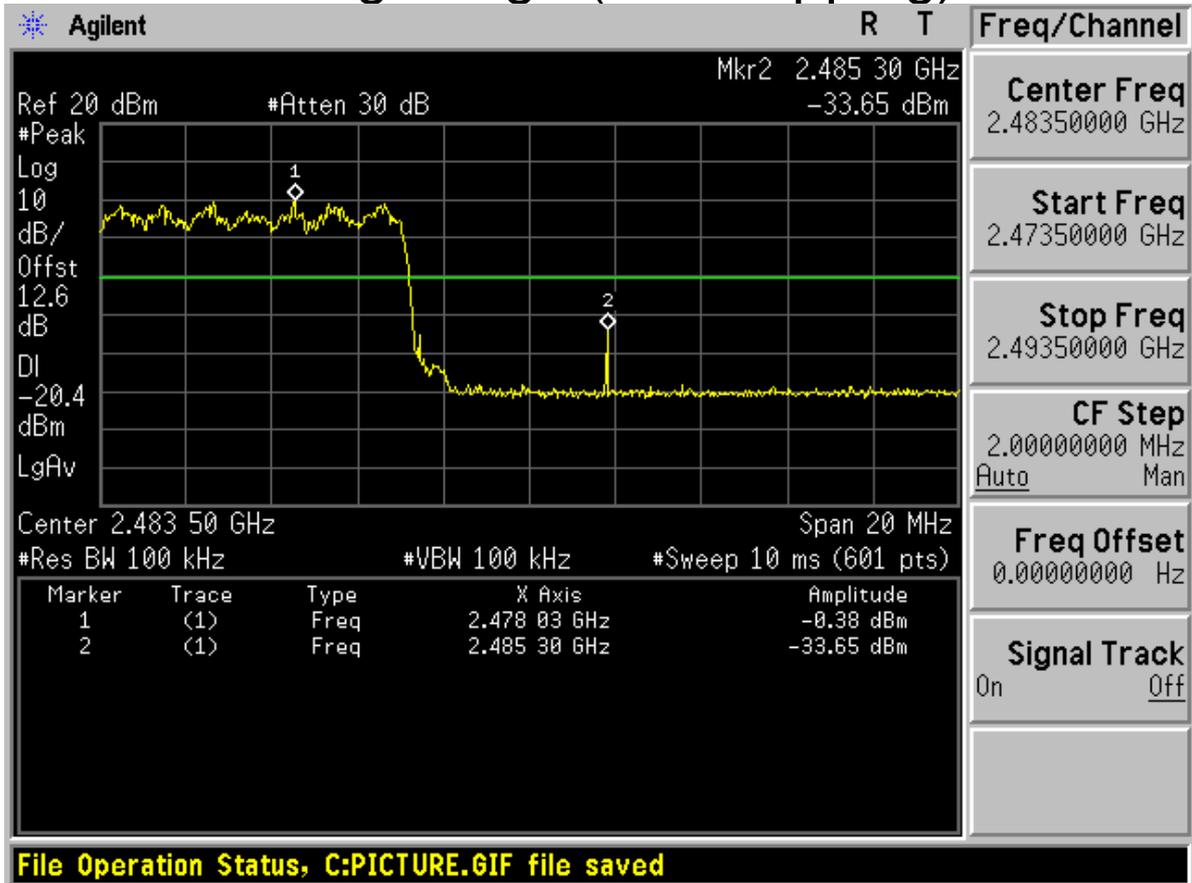


High edge (Channel 78, no hopping)





High edge (with hopping)





Appendix G

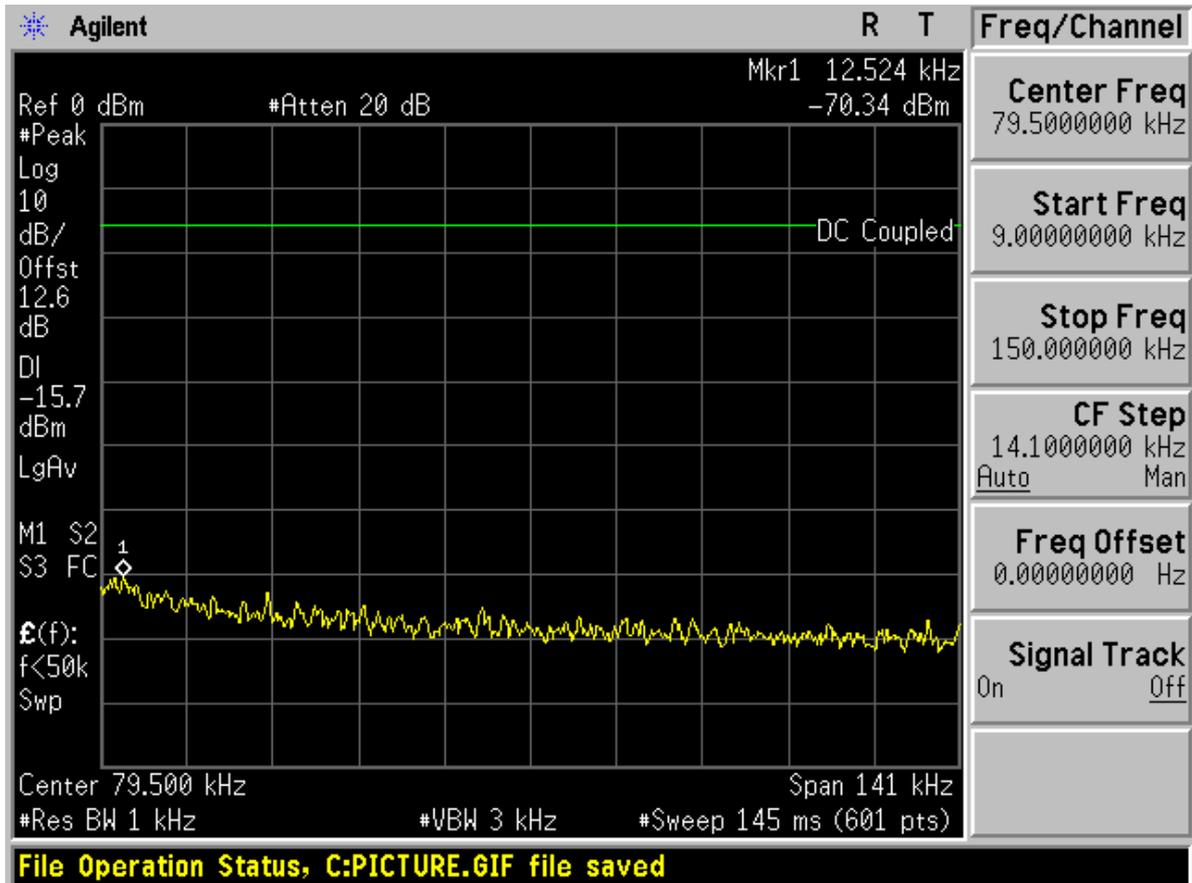
Conducted RF spurious

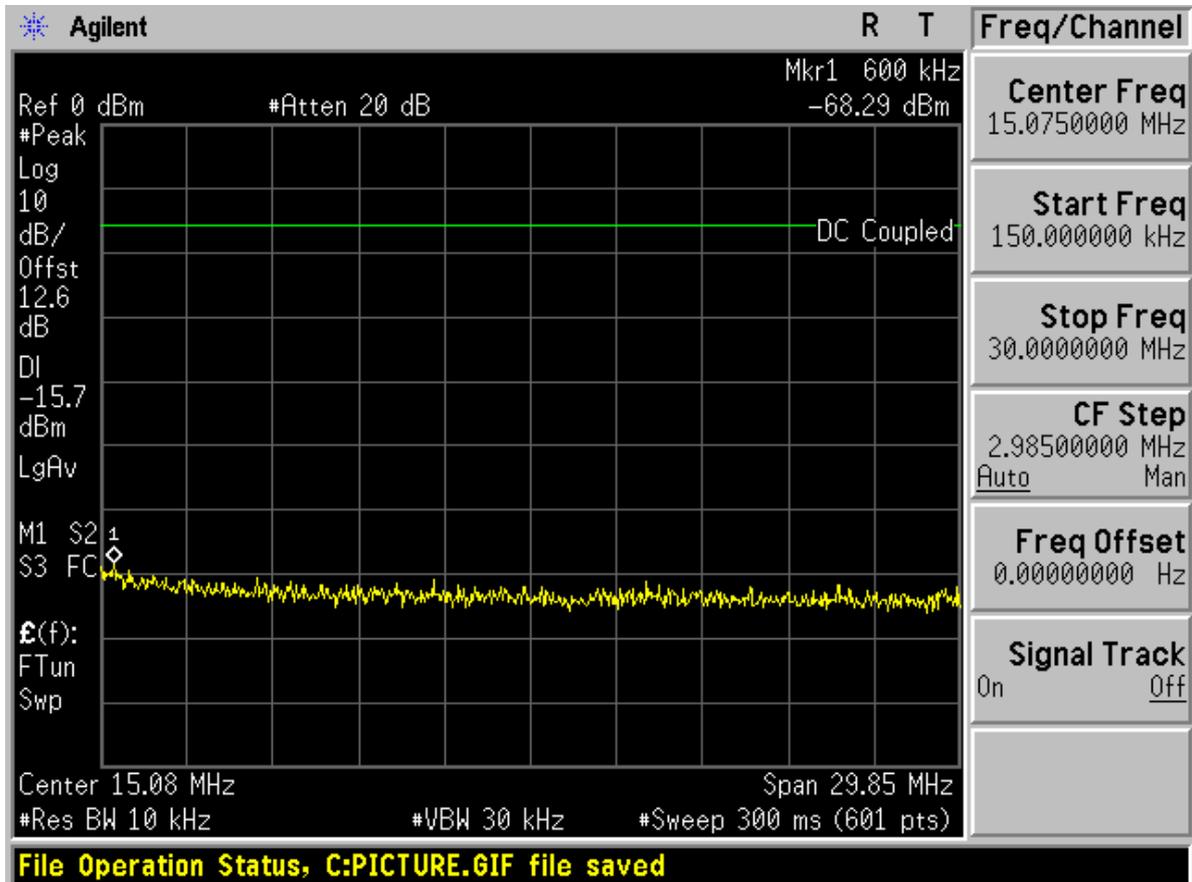
According to FCC Part 15.247 (d)

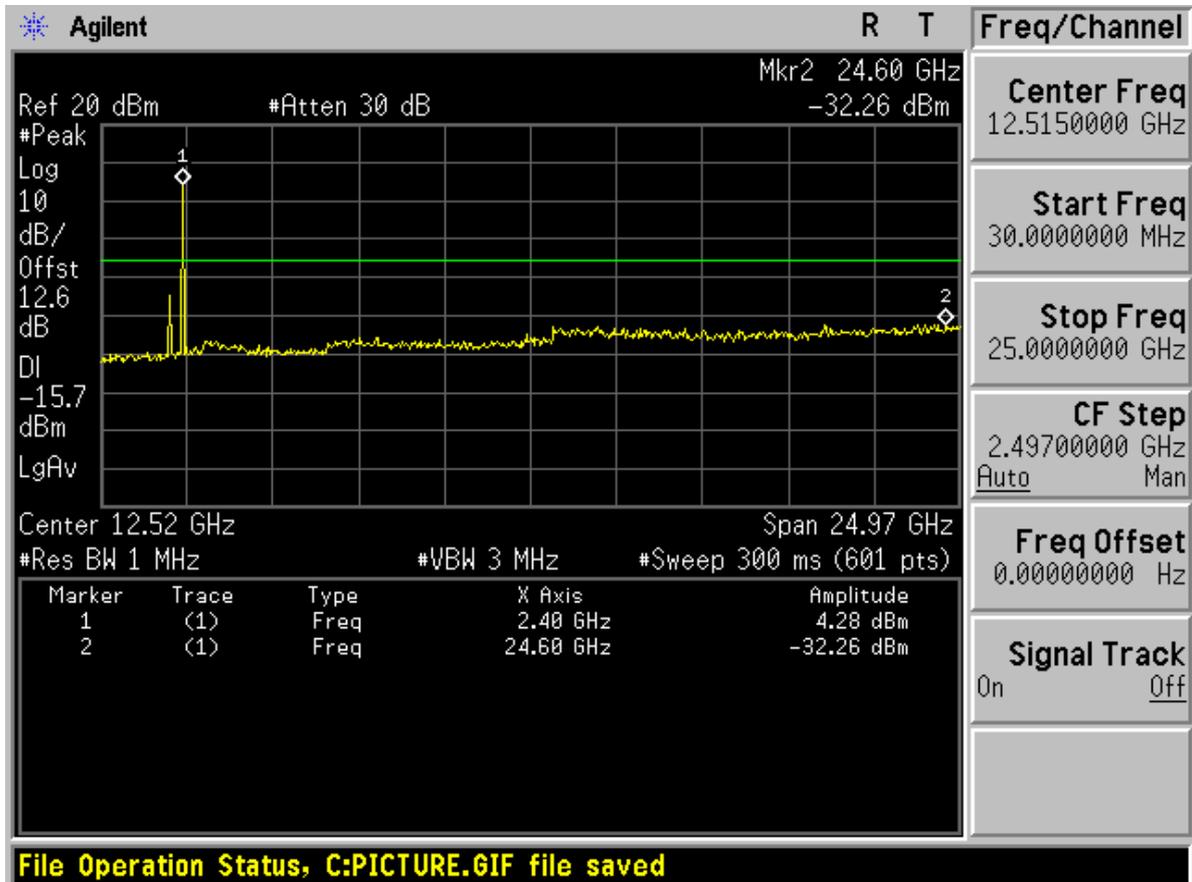


Modulation: $\pi/4$ -DQPSK

Channel 0

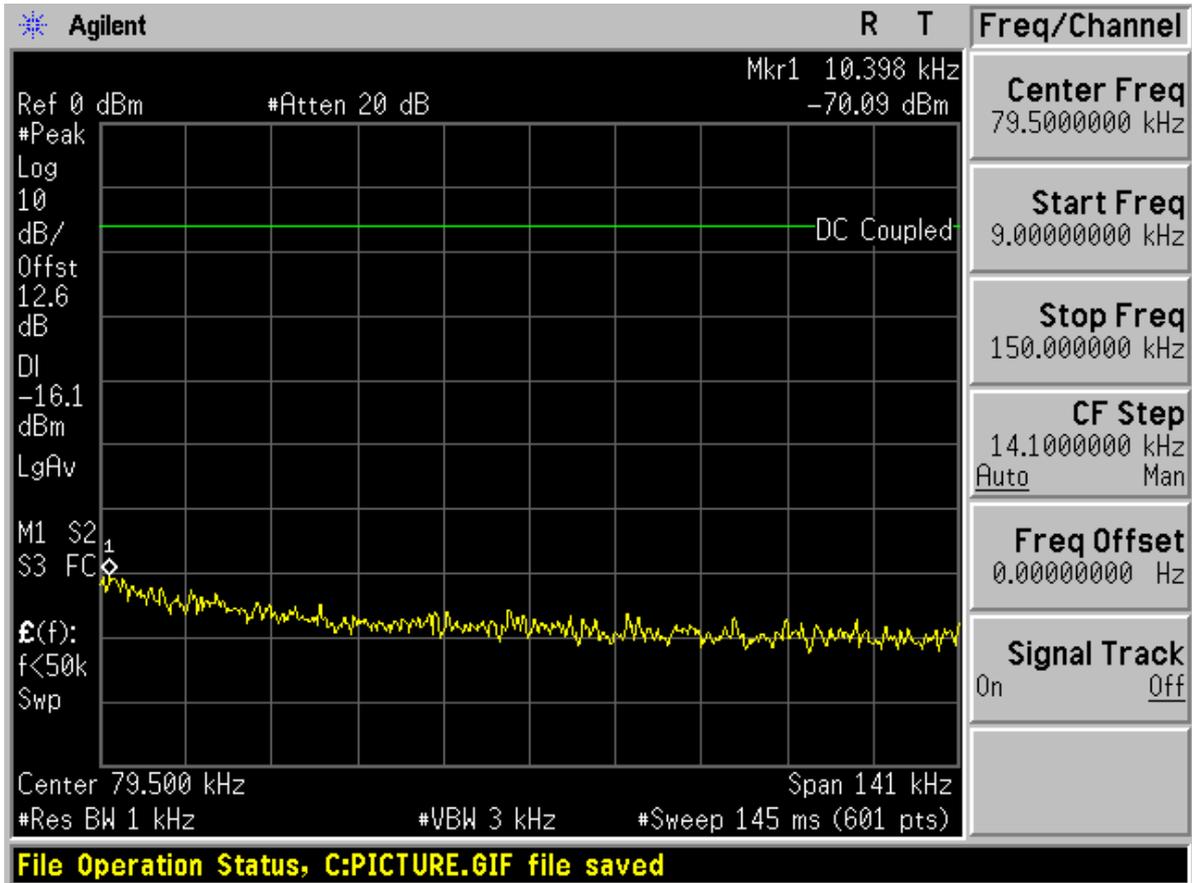


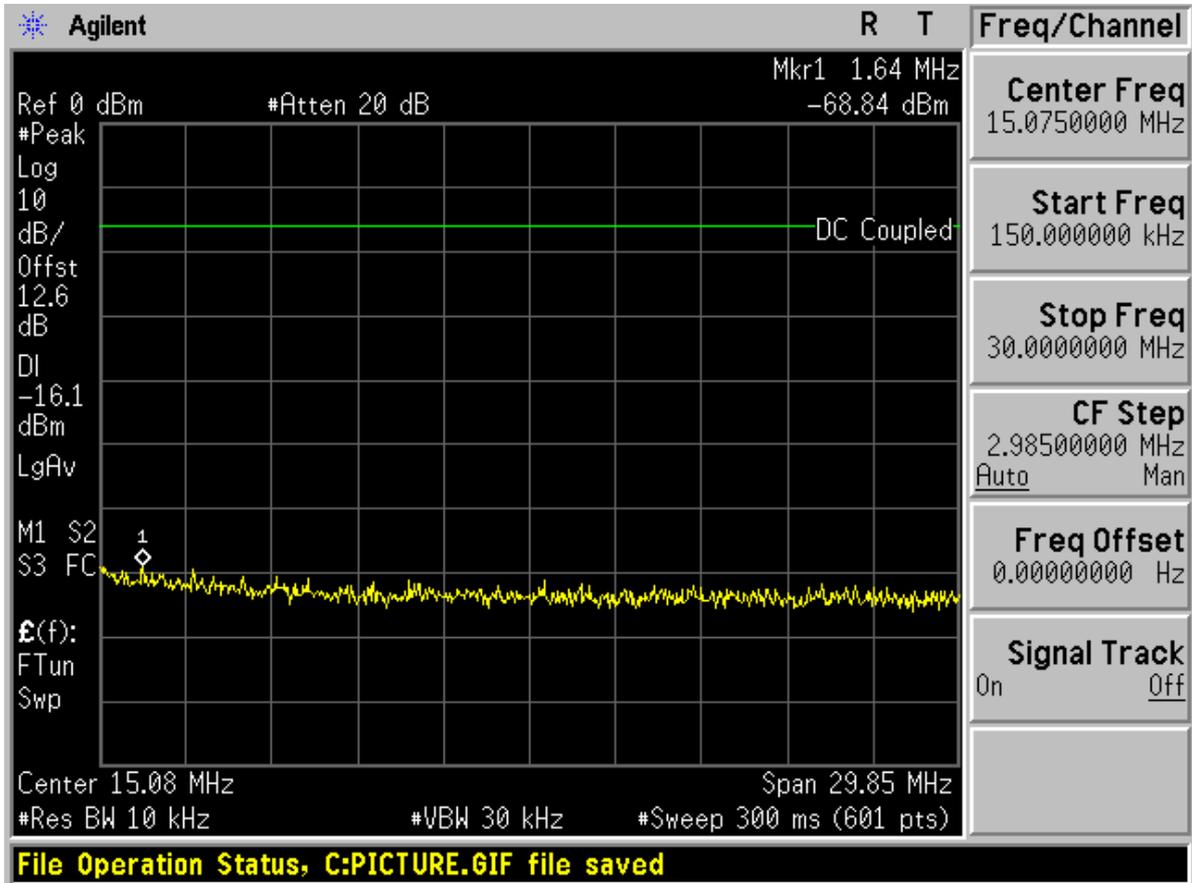


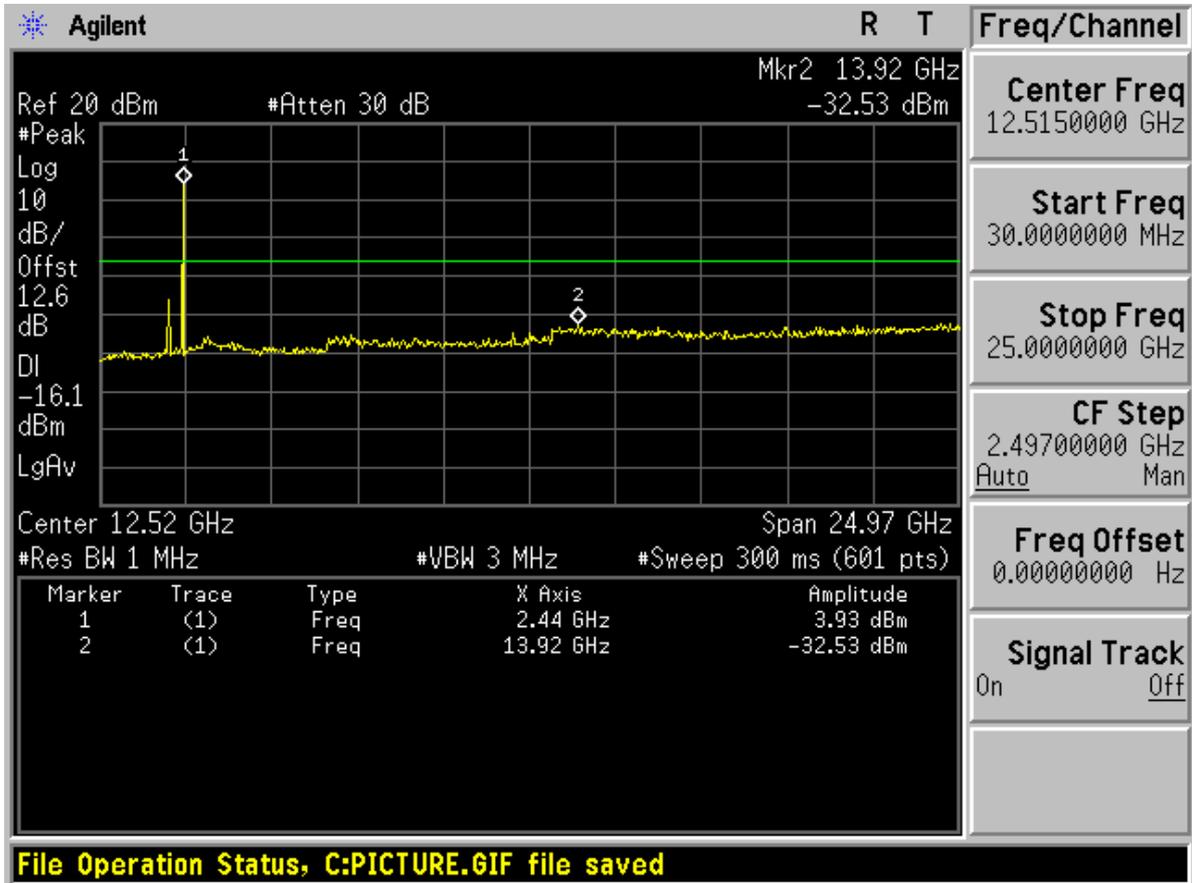




Channel 40

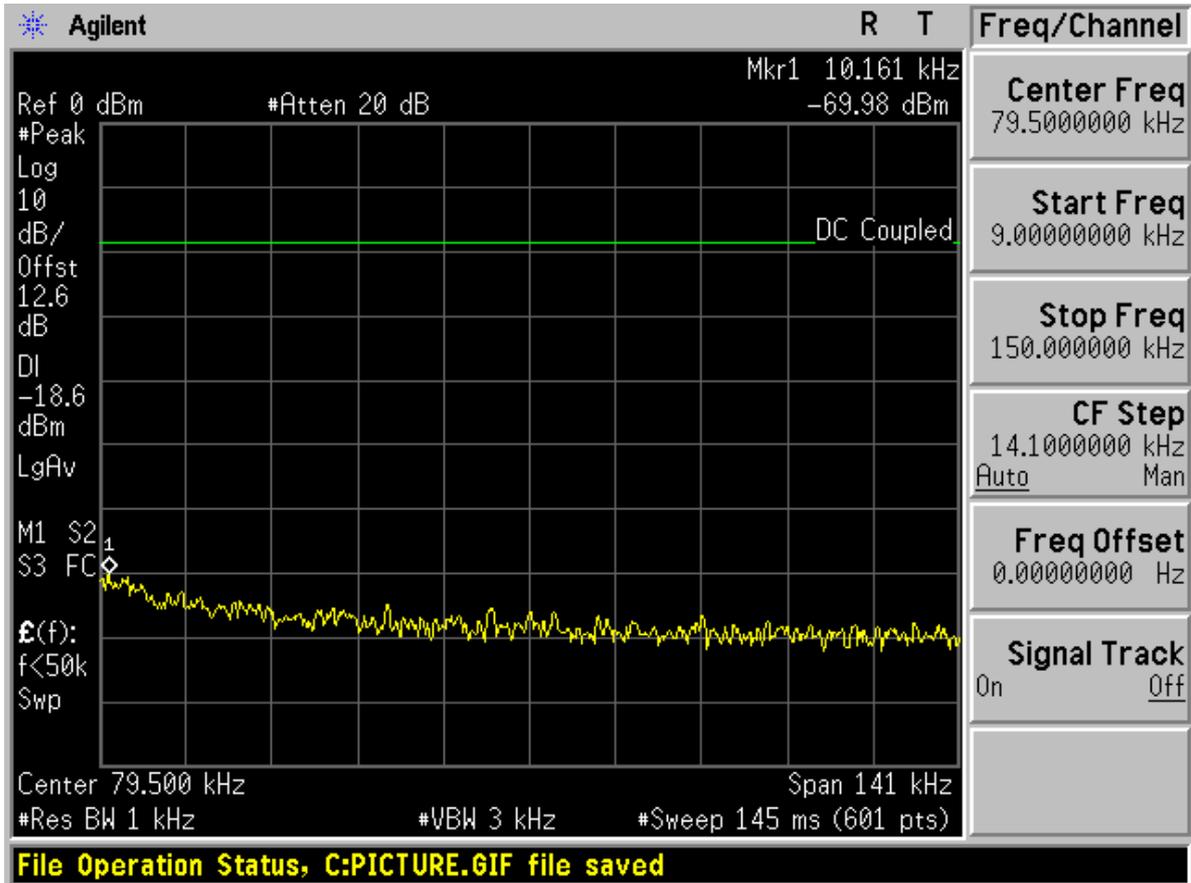


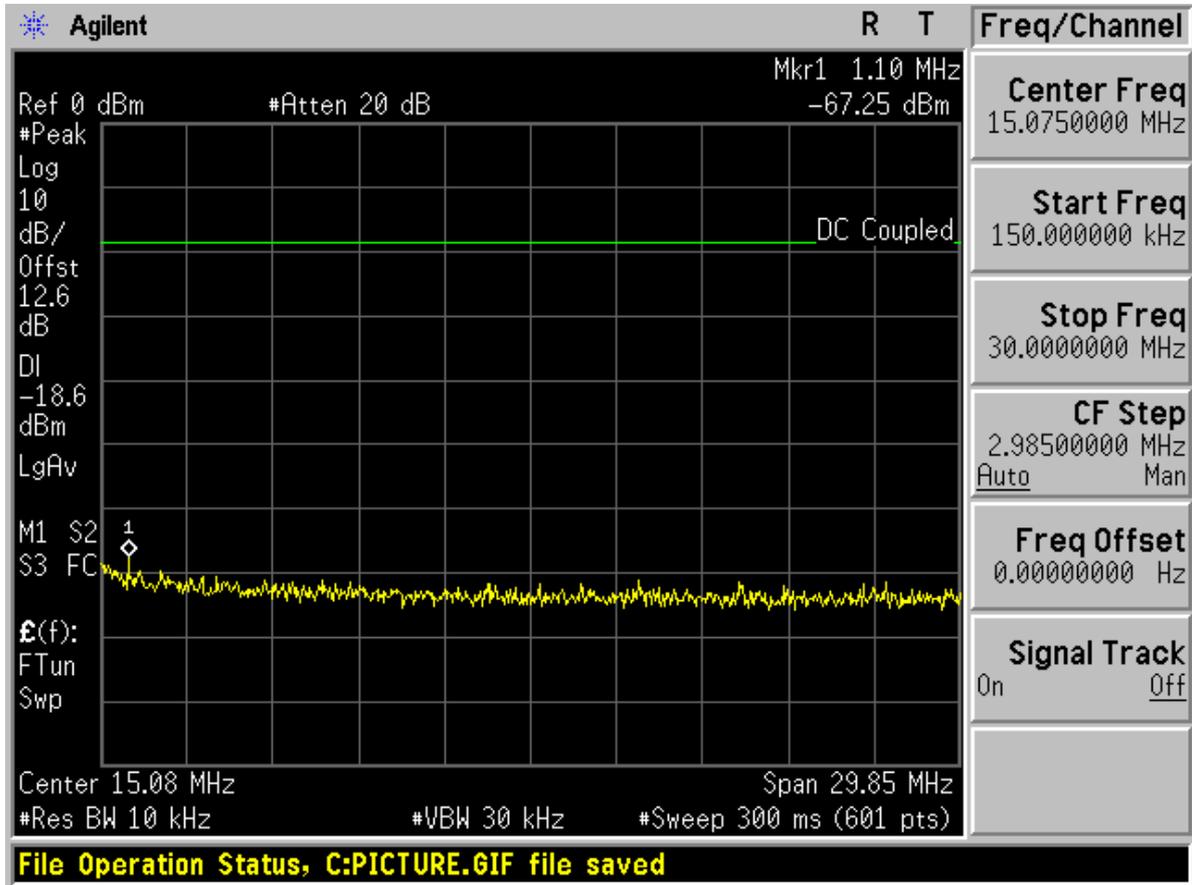


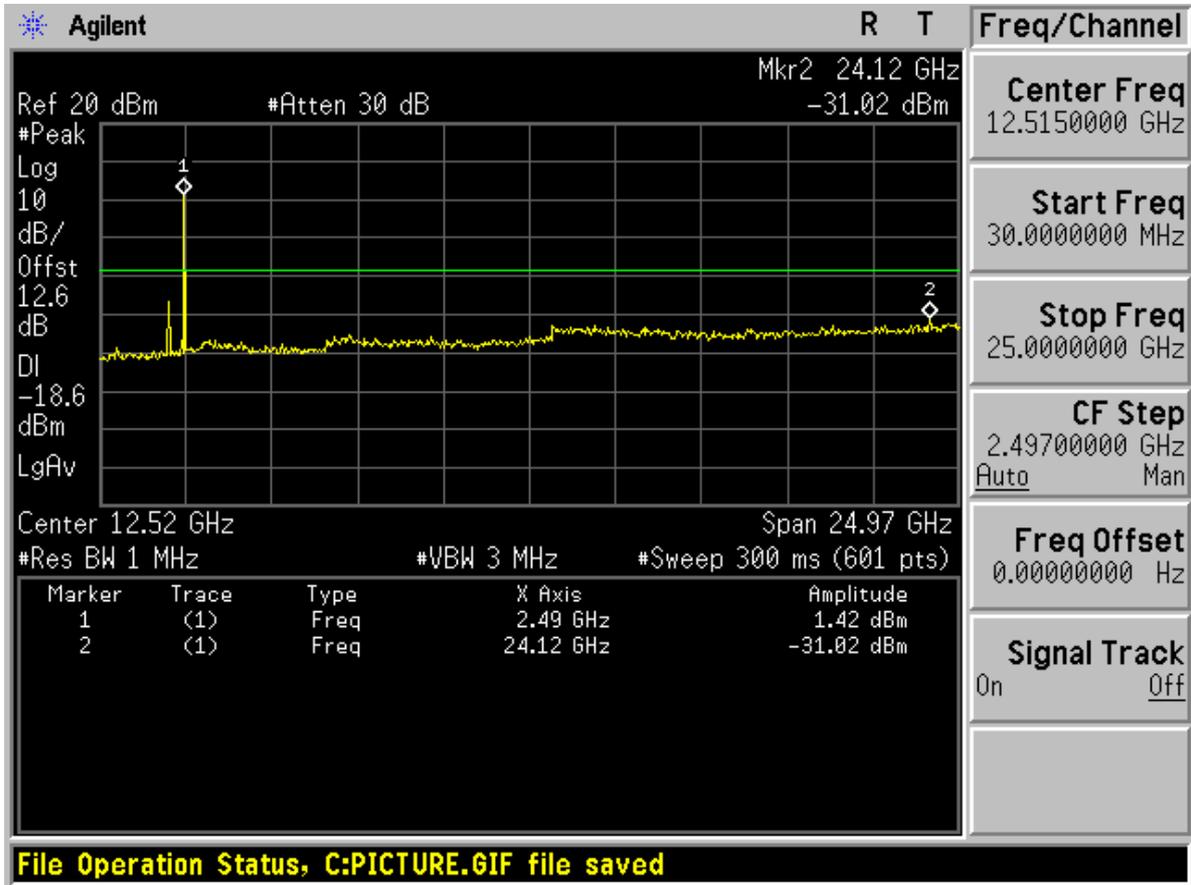




Channel 78

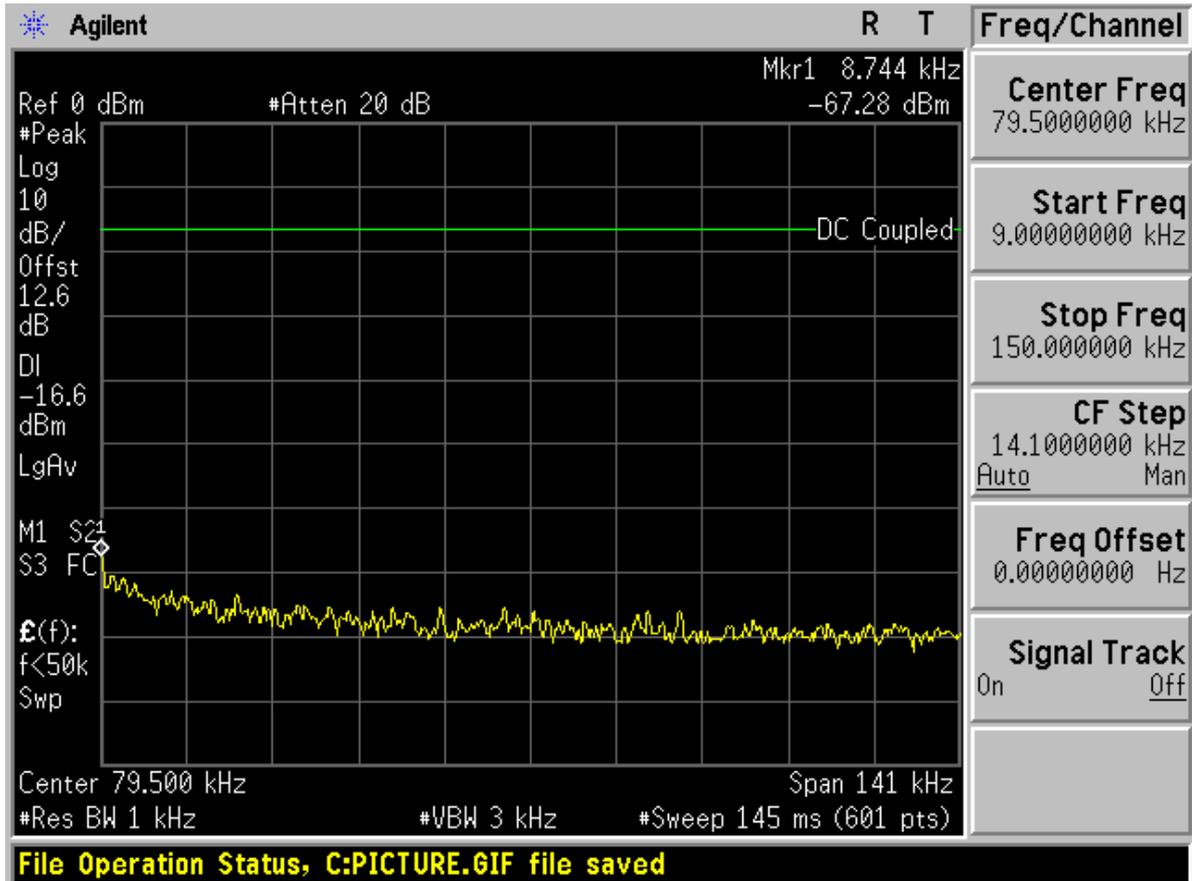


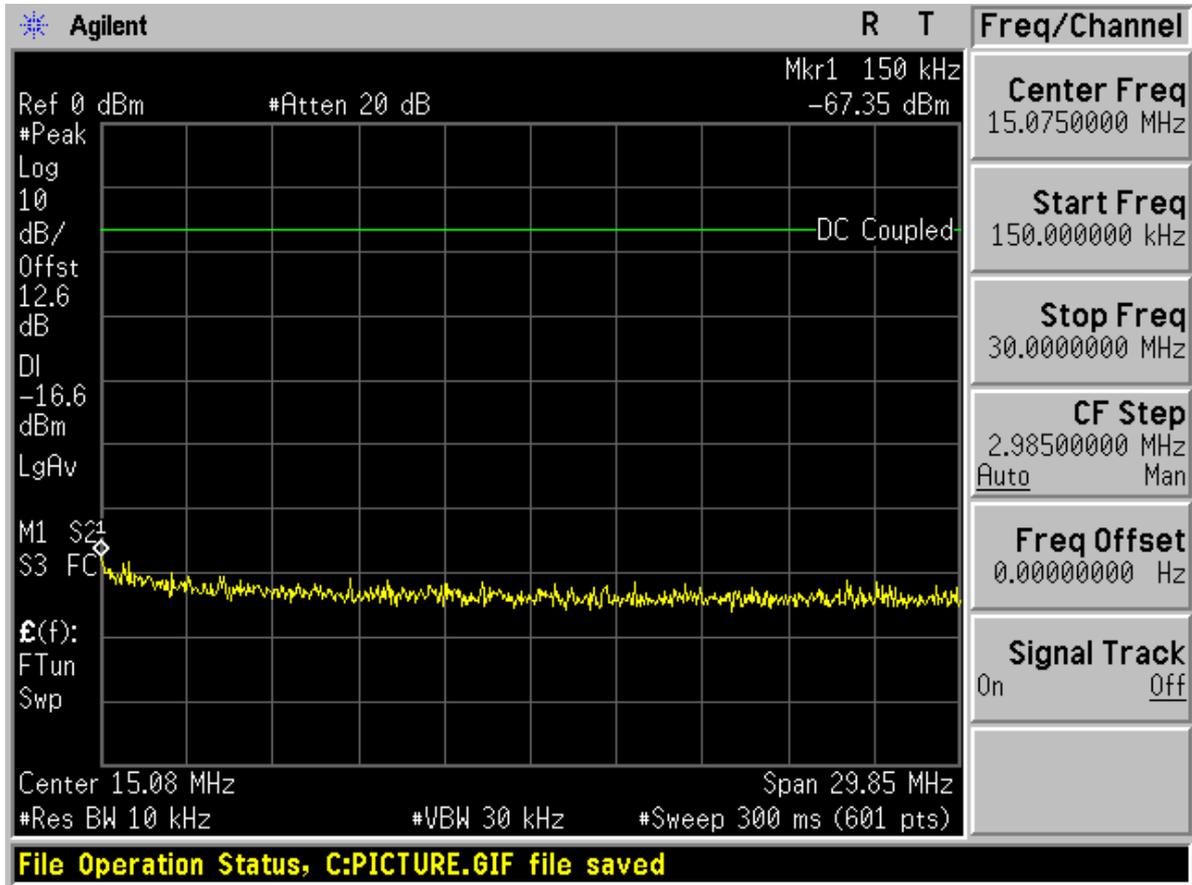


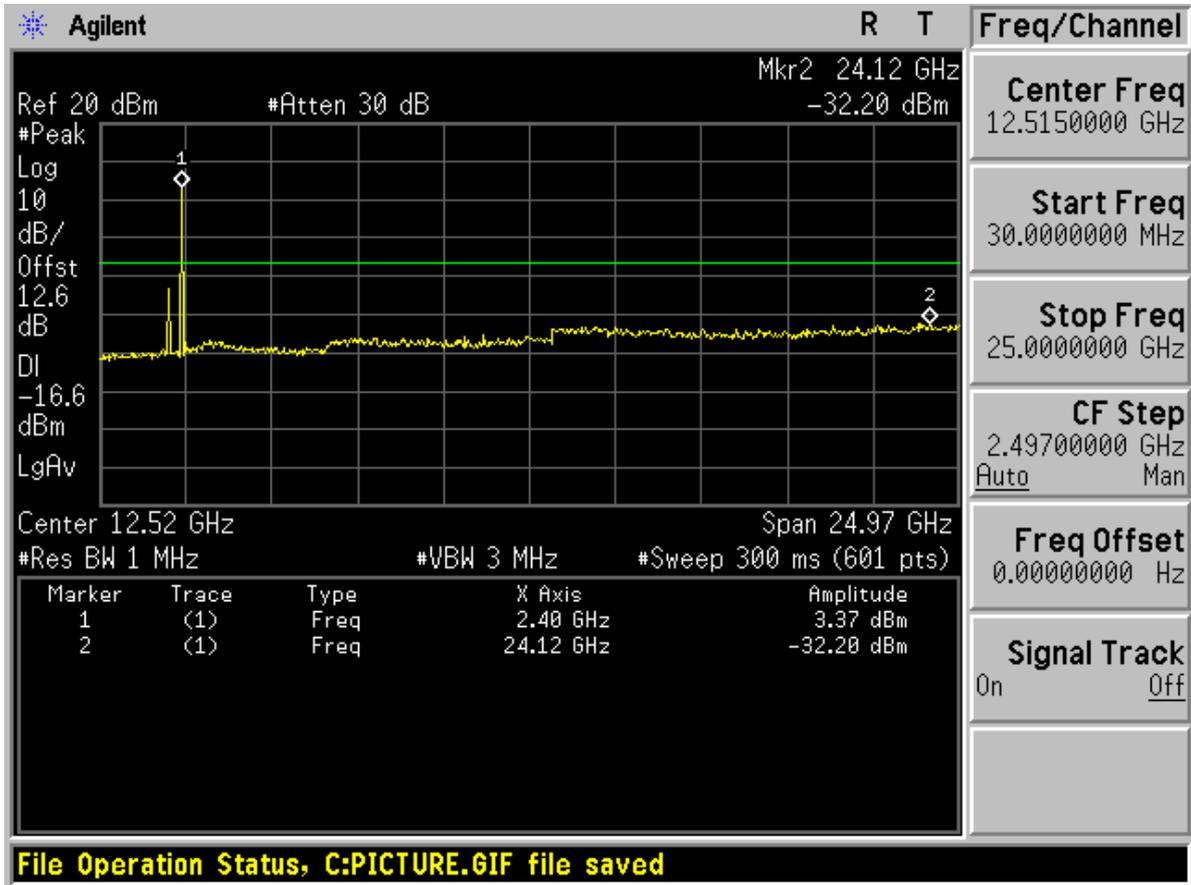




Modulation: 8DPSK Channel 0

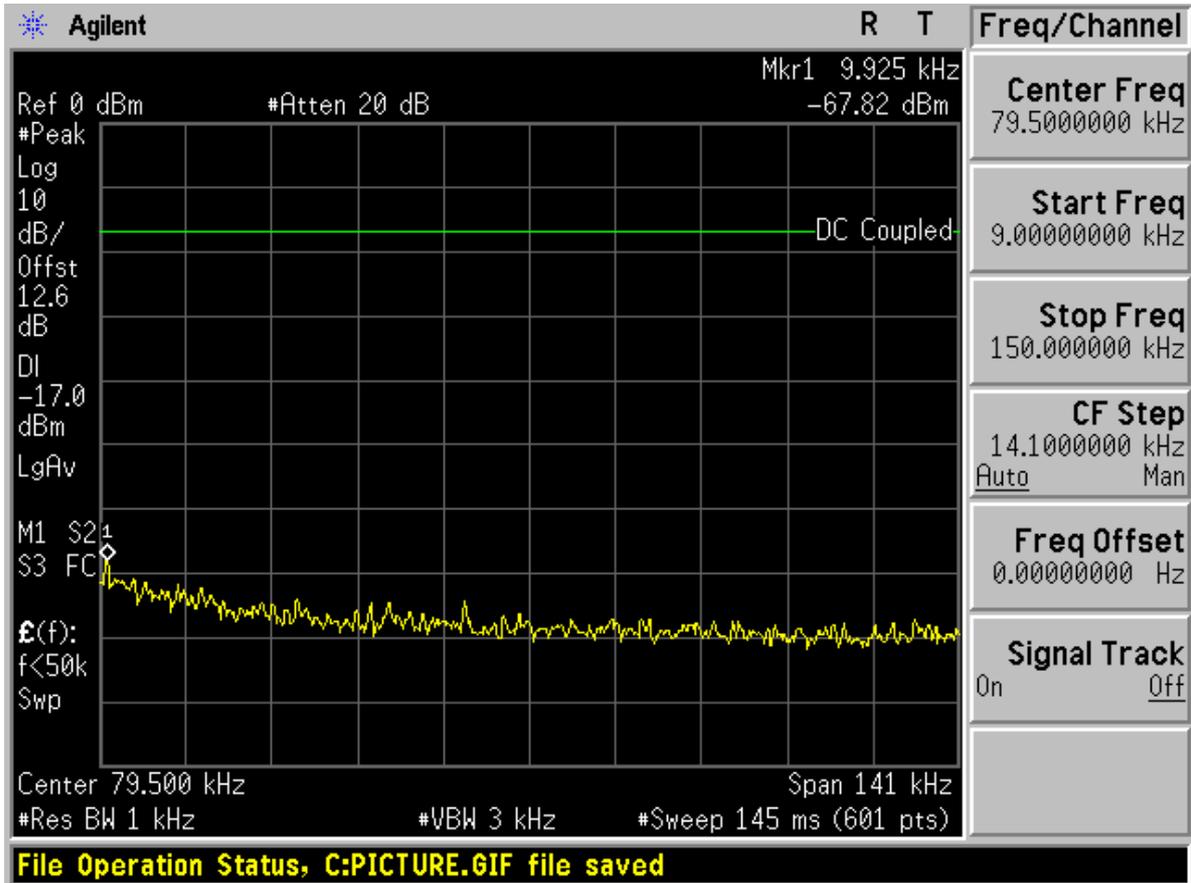


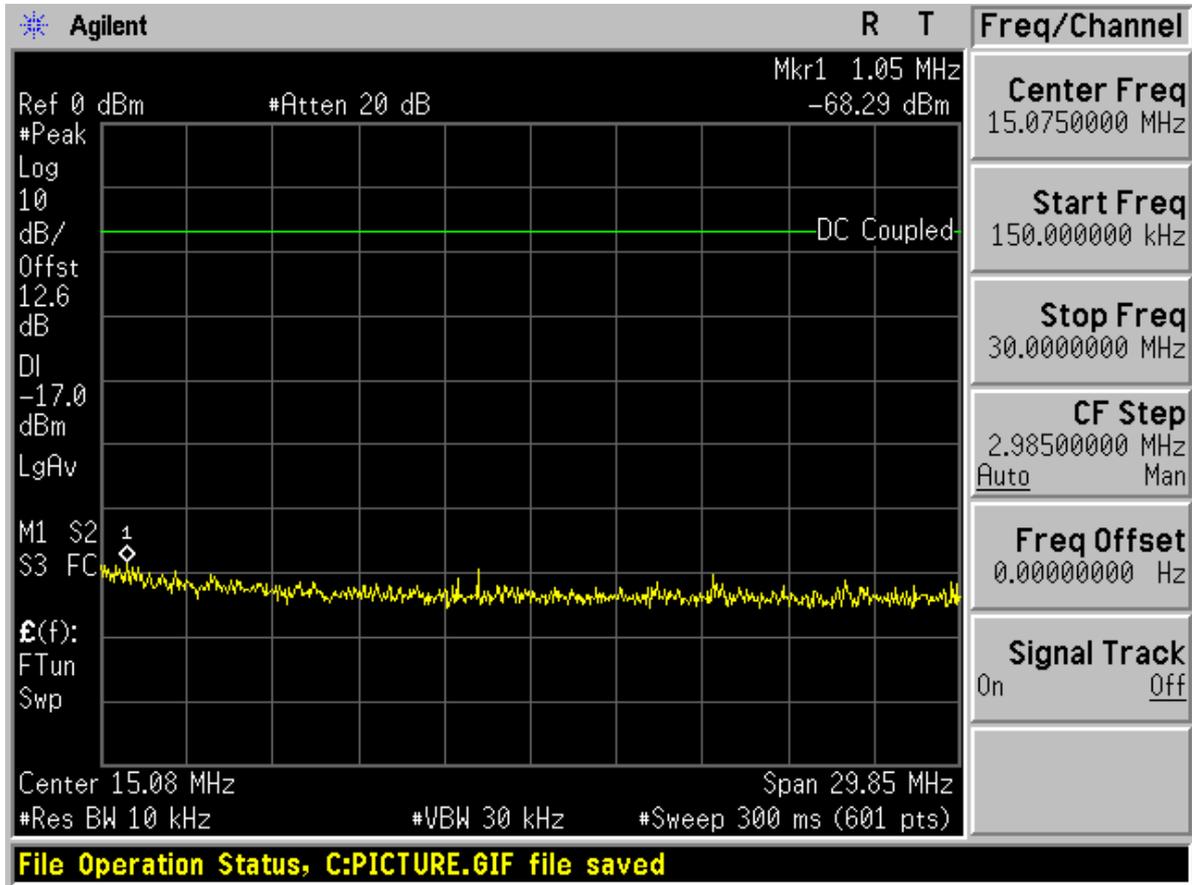


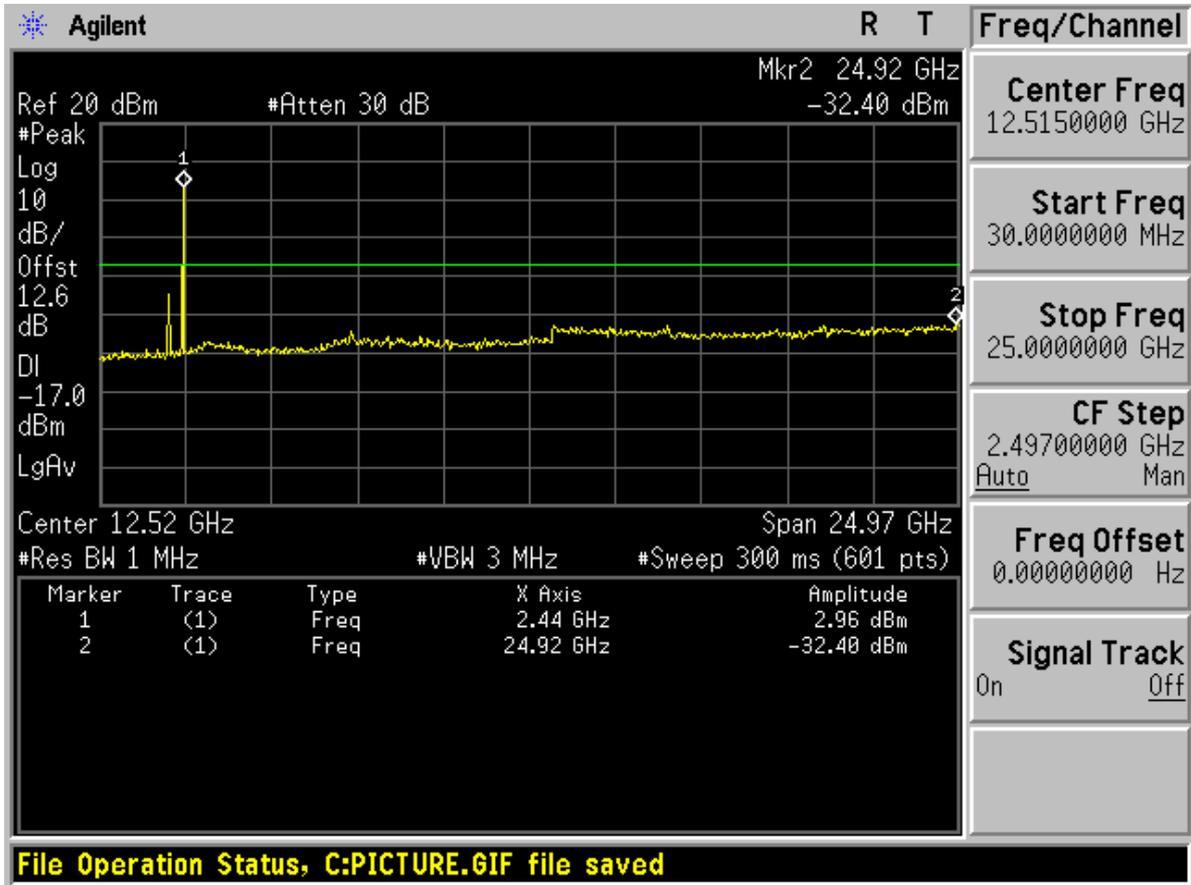




Channel 40

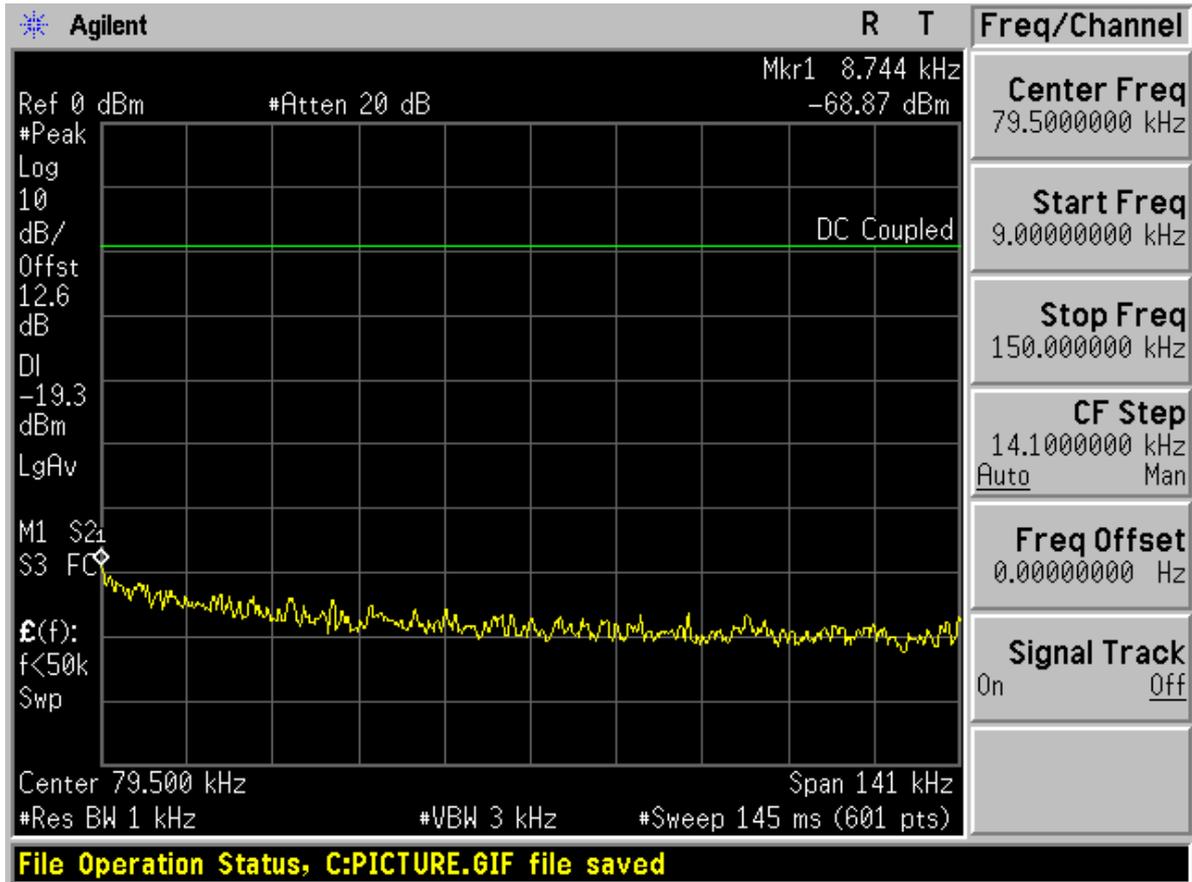


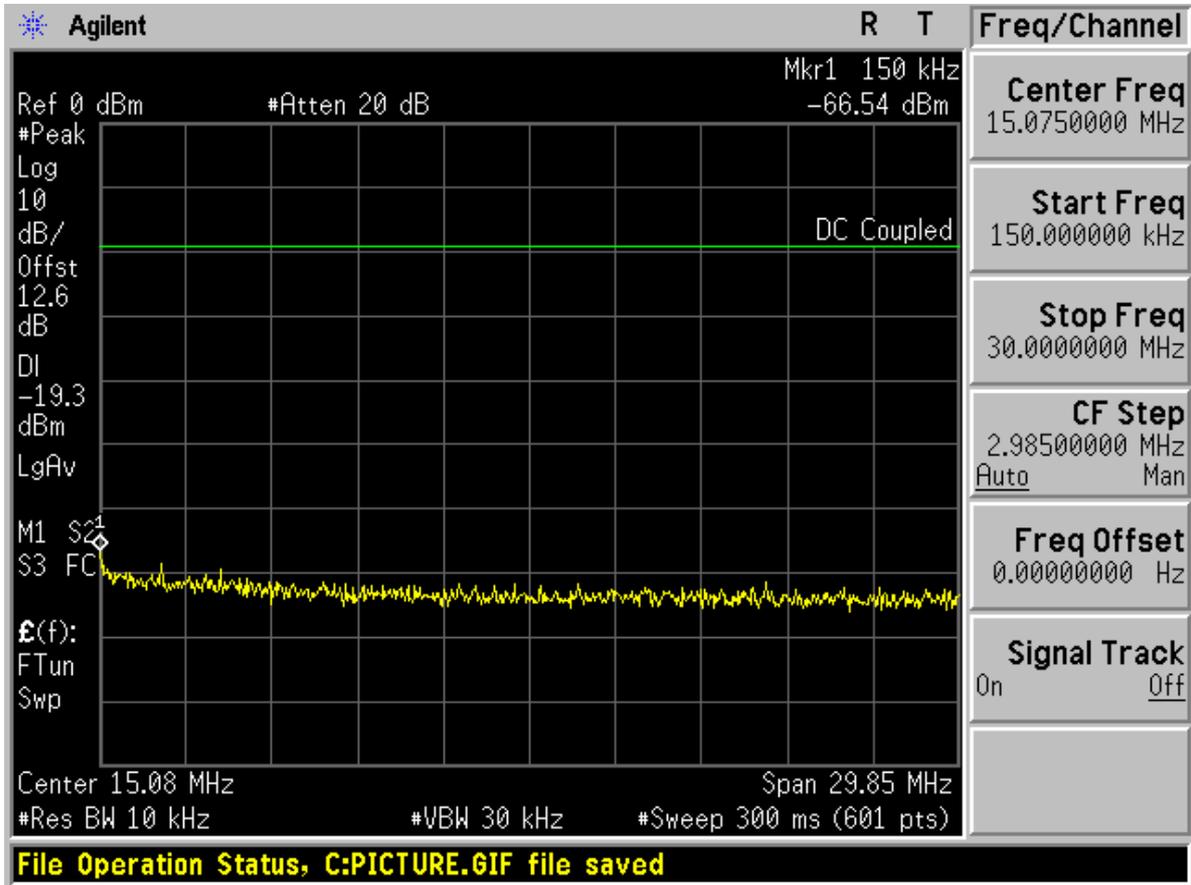


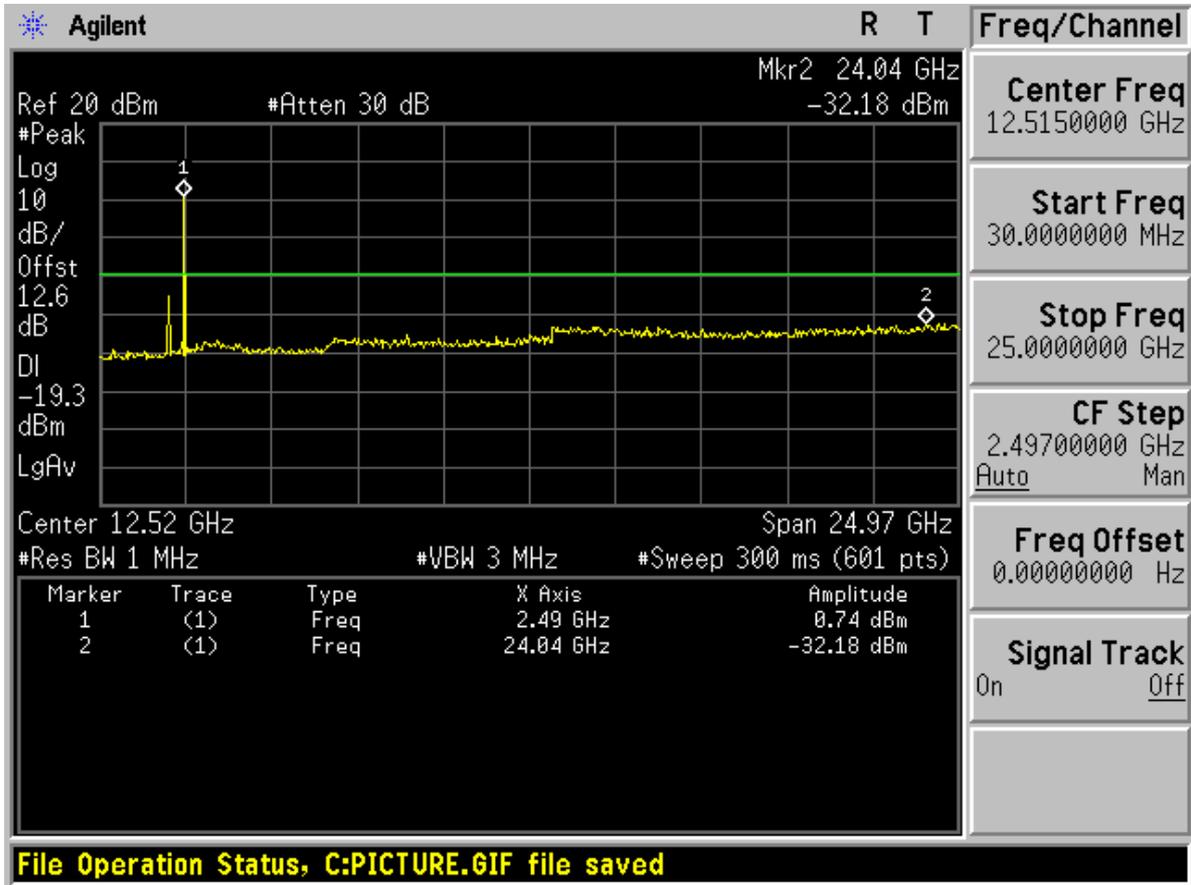




Channel 78









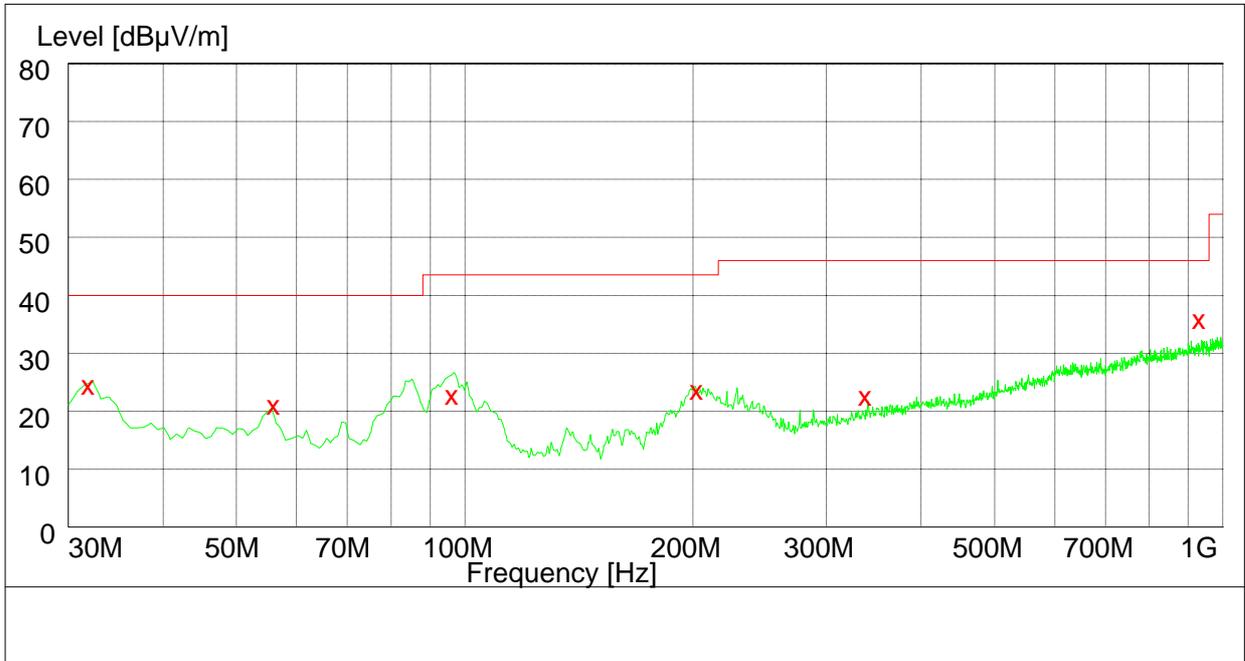
Appendix H

Radiated spurious emission

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



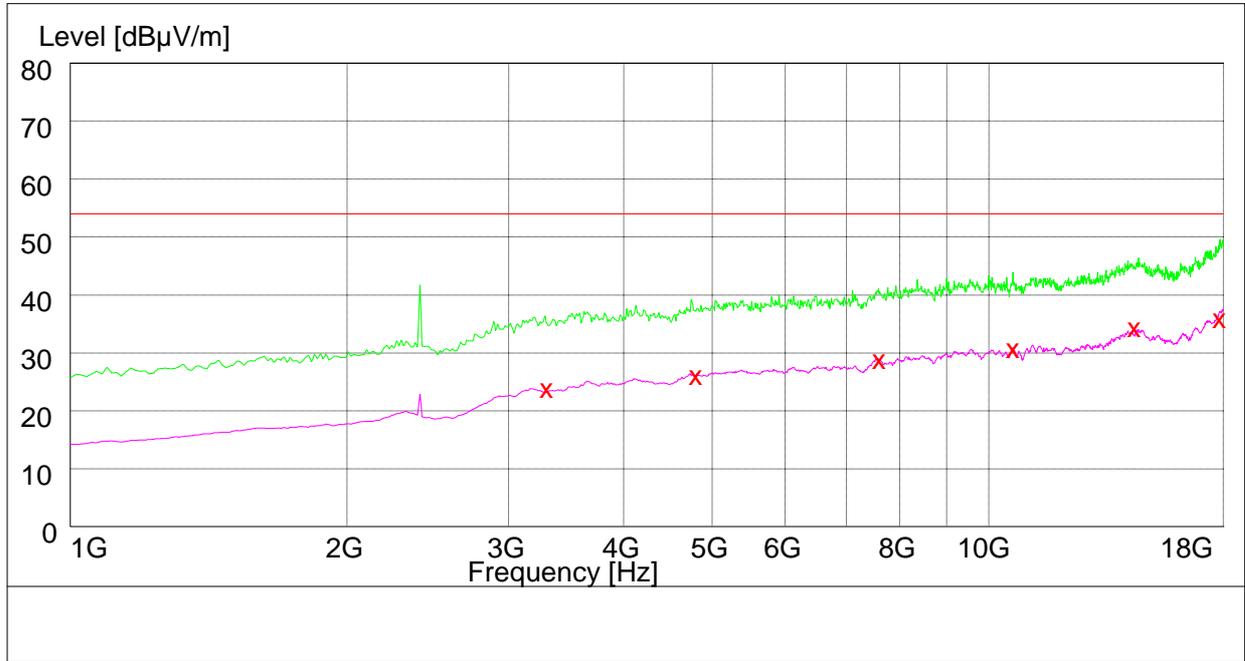
Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
31.800000	22.70	11.7	40.0	17.3	100.0	266.00	HORIZONTAL
56.500000	20.50	12.6	40.0	19.5	157.0	156.00	VERTICAL
96.420000	24.00	12.9	43.5	19.5	254.0	237.00	HORIZONTAL
200.780000	25.20	12.2	43.5	18.3	140.0	150.00	HORIZONTAL
338.910000	24.00	16.8	46.0	22.0	102.0	69.00	VERTICAL
936.000000	37.30	26.5	46.0	8.7	158.0	259.00	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
3340.500000	22.70	-7.9	54.0	31.3	134.0	359.00	HORIZONTAL
4805.000000	27.00	-4.2	54.0	27.0	128.0	315.00	VERTICAL
7724.800000	26.90	1.7	54.0	27.1	102.0	123.00	HORIZONTAL
10600.000000	30.30	6.1	54.0	23.7	178.0	245.00	VERTICAL
14110.600000	33.70	11.4	54.0	20.3	114.0	210.00	HORIZONTAL
17861.500000	38.40	16.4	54.0	15.6	156.0	178.00	VERTICAL

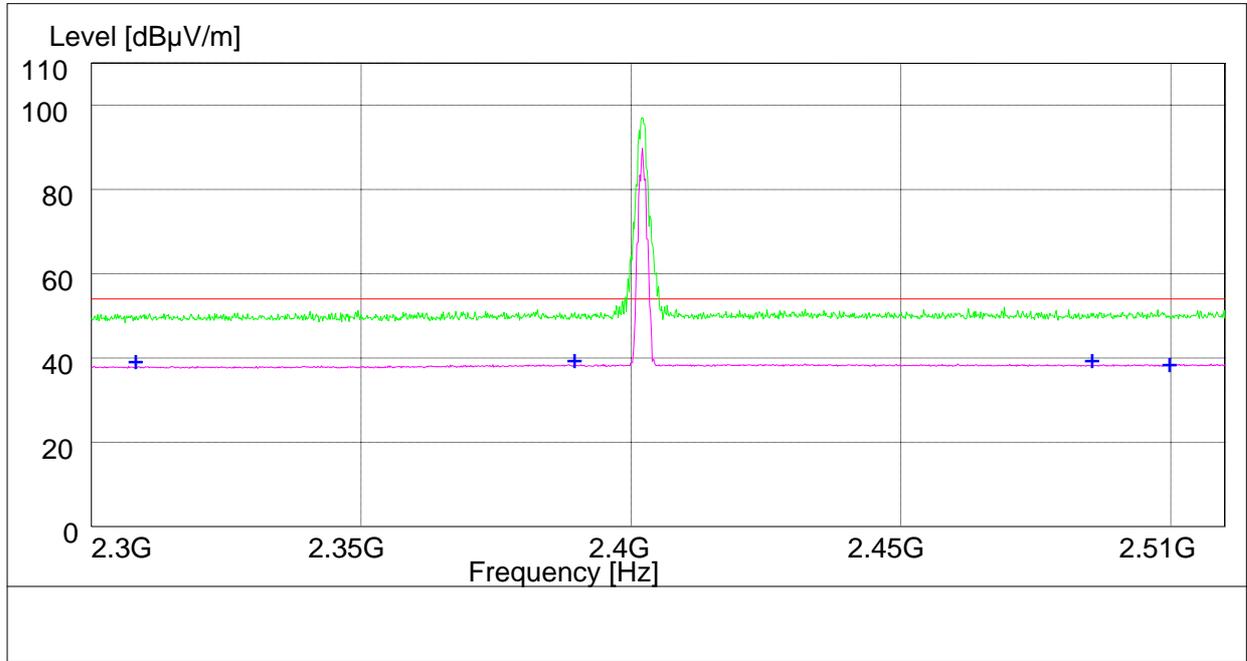


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz

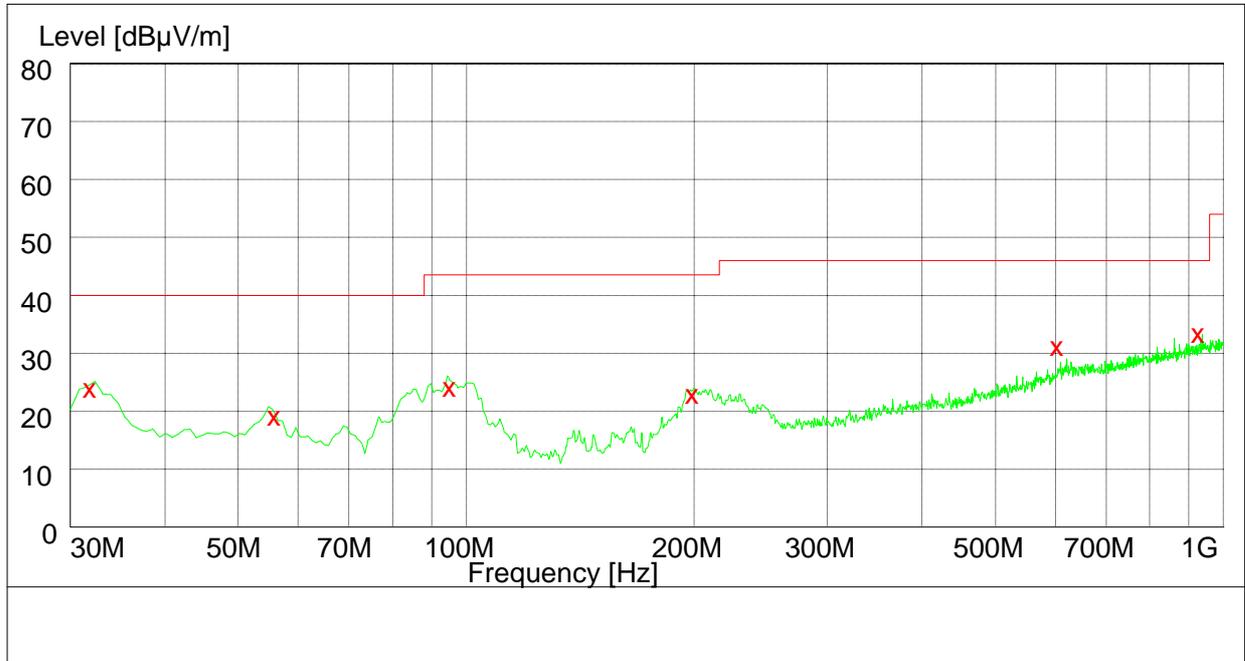


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	40.60	33.3	54.0	13.4	241.0	28.00	HORIZONTAL
2390.000000	40.20	33.5	54.0	13.8	165.0	189.00	VERTICAL
2483.500000	40.10	33.7	54.0	13.9	178.0	321.00	HORIZONTAL
2500.000000	39.90	33.8	54.0	14.1	254.0	56.00	VERTICAL



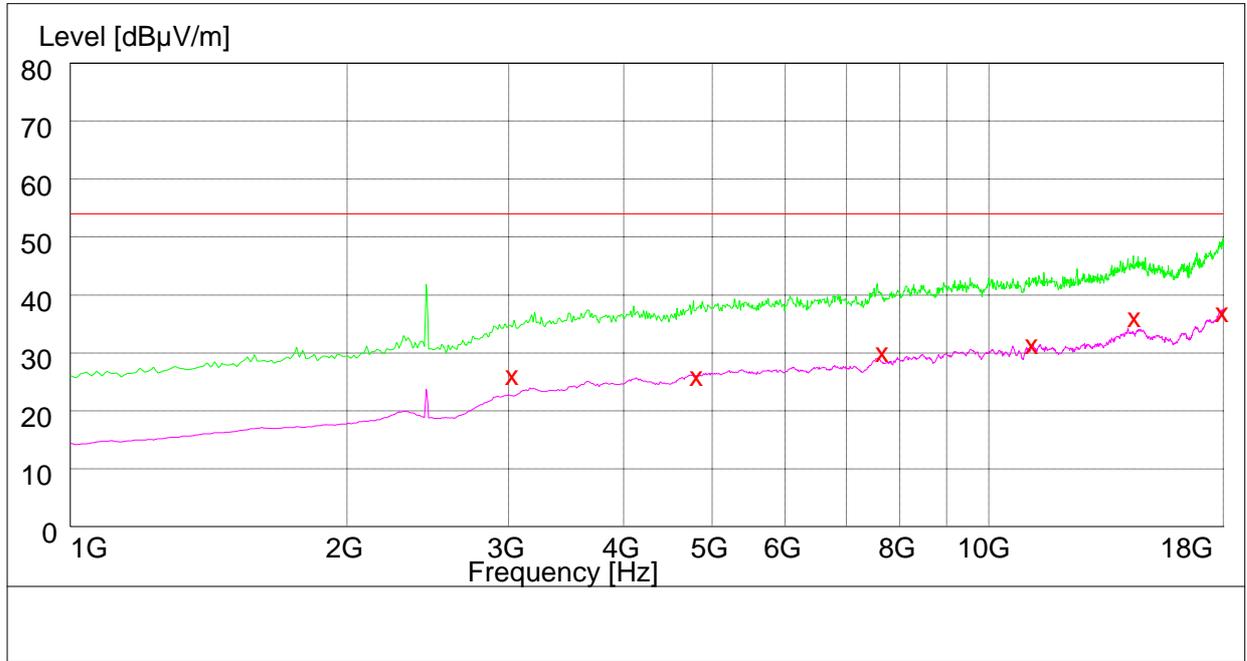
Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
31.640000	24.00	11.7	40.0	16.0	152.0	235.00	HORIZONTAL
52.000000	19.70	12.6	40.0	20.3	145.0	124.00	VERTICAL
95.220000	20.70	12.8	43.5	22.8	102.0	254.00	HORIZONTAL
199.800000	22.40	12.0	43.5	21.1	254.0	325.00	VERTICAL
600.700000	30.20	22.5	46.0	15.8	145.0	258.00	VERTICAL
938.220000	35.90	26.5	46.0	10.1	120.0	321.00	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
3030.000000	27.70	-9.0	54.0	26.3	124.0	254.00	VERTICAL
4770.000000	26.40	-4.1	54.0	27.6	141.0	14.00	HORIZONTAL
7561.500000	29.10	1.6	54.0	24.9	189.0	354.00	VERTICAL
11479.000000	31.20	6.8	54.0	22.8	101.0	39.00	HORIZONTAL
14264.500000	36.40	11.8	54.0	17.6	243.0	254.00	VERTICAL
17999.500000	37.40	17.3	54.0	16.4	234.0	325.00	HORIZONTAL

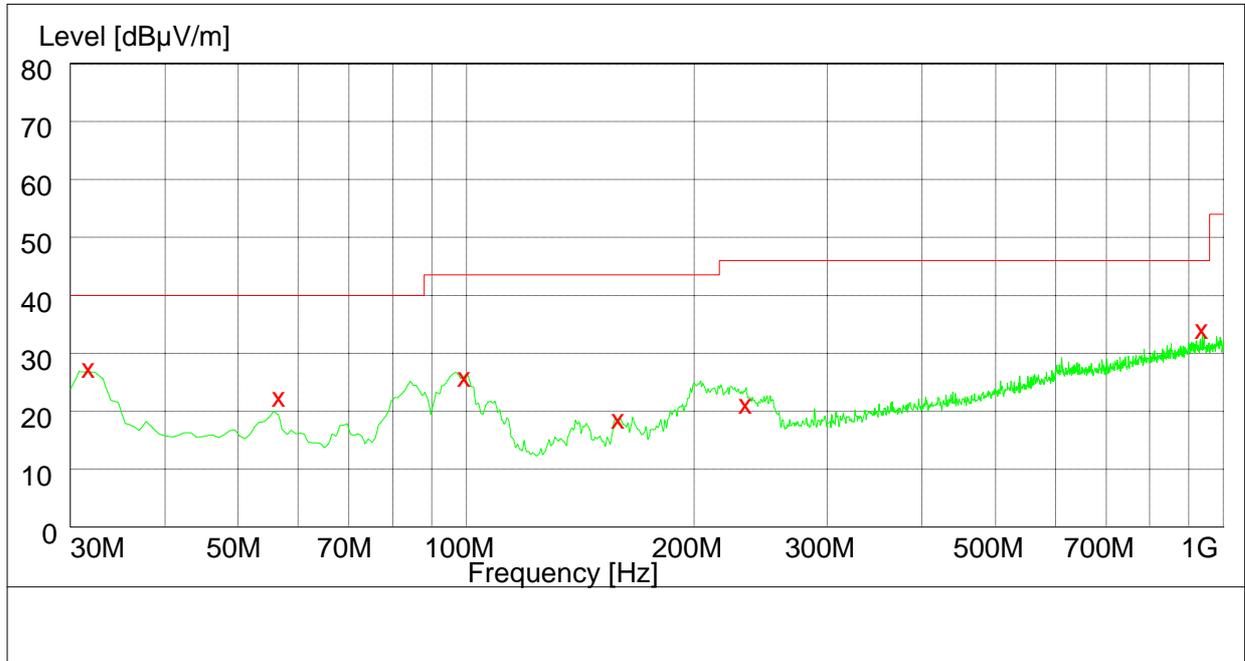


18GHz to 26GHz

Note: No peak found in pre- test.



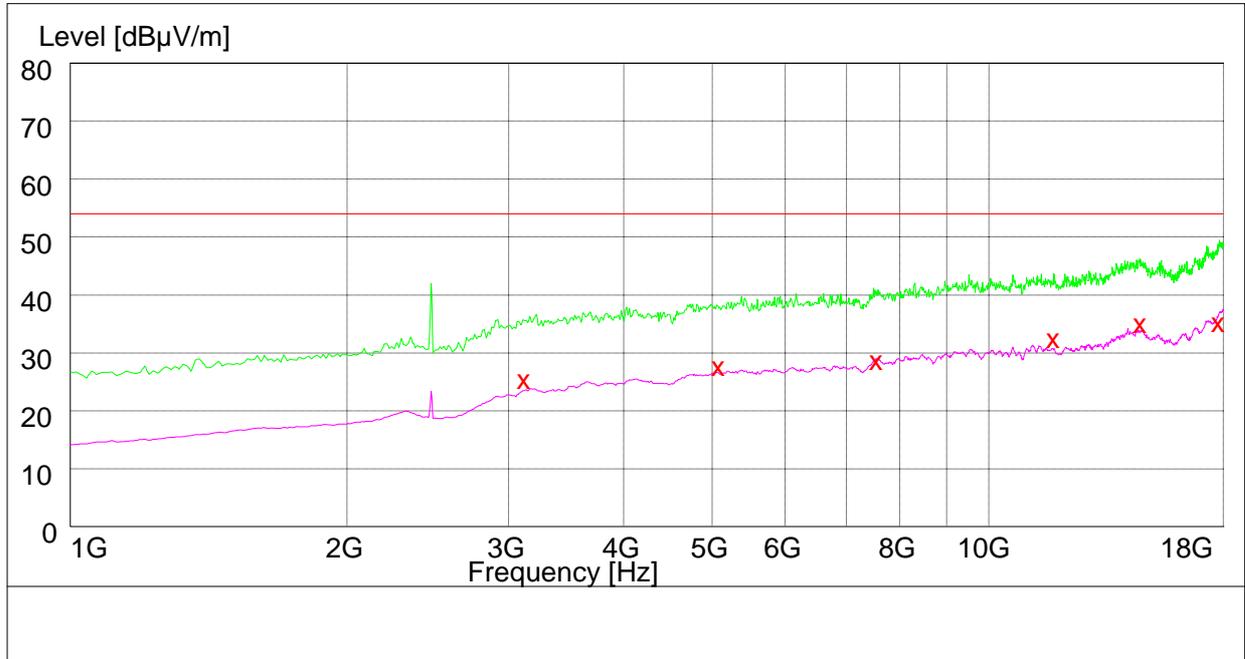
Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
31.800000	26.40	11.7	40.0	13.6	154.0	124.00	VERTICAL
58.200000	22.10	12.6	40.0	17.9	123.0	235.00	VERTICAL
100.500000	25.10	12.9	43.5	18.4	235.0	325.00	VERTICAL
157.850000	19.00	9.5	43.5	24.5	124.0	214.00	HORIZONTAL
234.240000	20.90	13.8	46.0	25.1	254.0	346.00	VERTICAL
930.000000	33.50	26.5	46.0	12.5	205.0	102.00	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
3078.700000	28.30	-9.0	54.0	25.7	157.0	231.00	VERTICAL
5102.000000	25.70	-3.1	54.0	28.3	102.0	272.00	HORIZONTAL
7500.700000	29.90	1.4	54.0	24.1	234.0	152.00	VERTICAL
11763.500000	32.10	7.0	54.0	21.9	213.0	321.00	HORIZONTAL
14270.000000	35.10	11.7	54.0	18.9	254.0	231.00	VERTICAL
17989.100000	36.90	17.2	54.0	17.1	102.0	333.00	HORIZONTAL

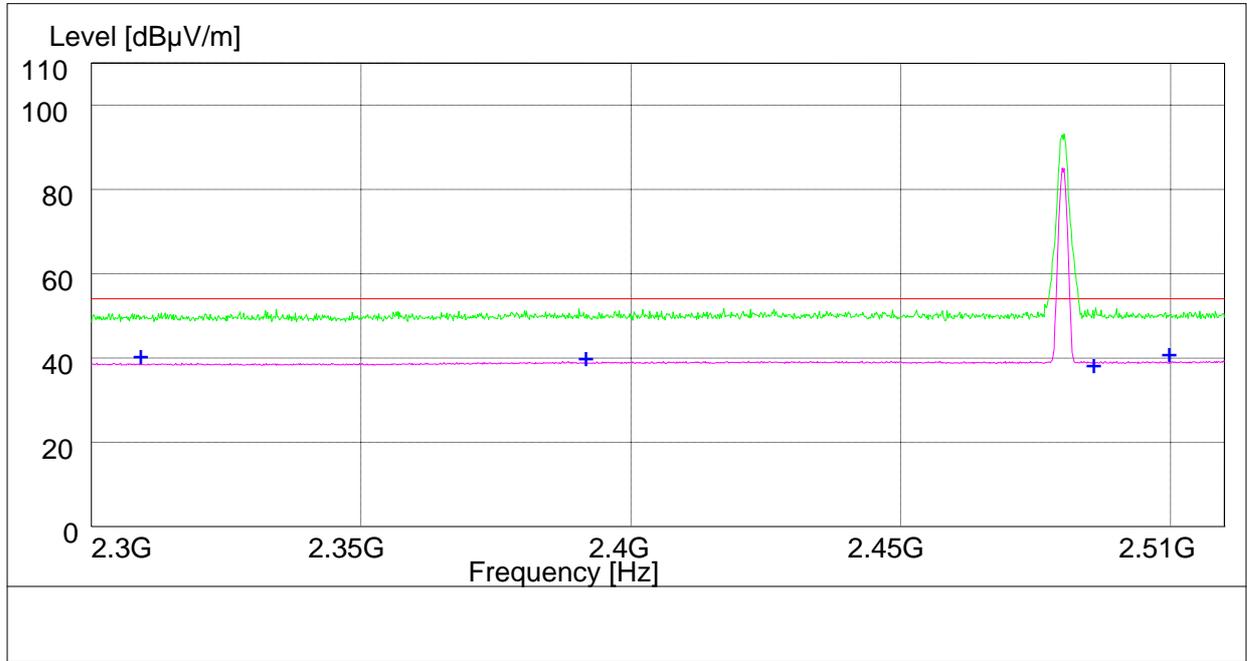


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



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	40.50	33.3	54.0	13.5	231.0	231.00	VERTICAL
2390.000000	39.90	33.5	54.0	14.1	256.0	234.00	HORIZONTAL
2483.500000	39.80	33.7	54.0	14.2	235.0	24.00	HORIZONTAL
2500.000000	40.60	33.8	54.0	13.4	124.0	250.00	VERTICAL



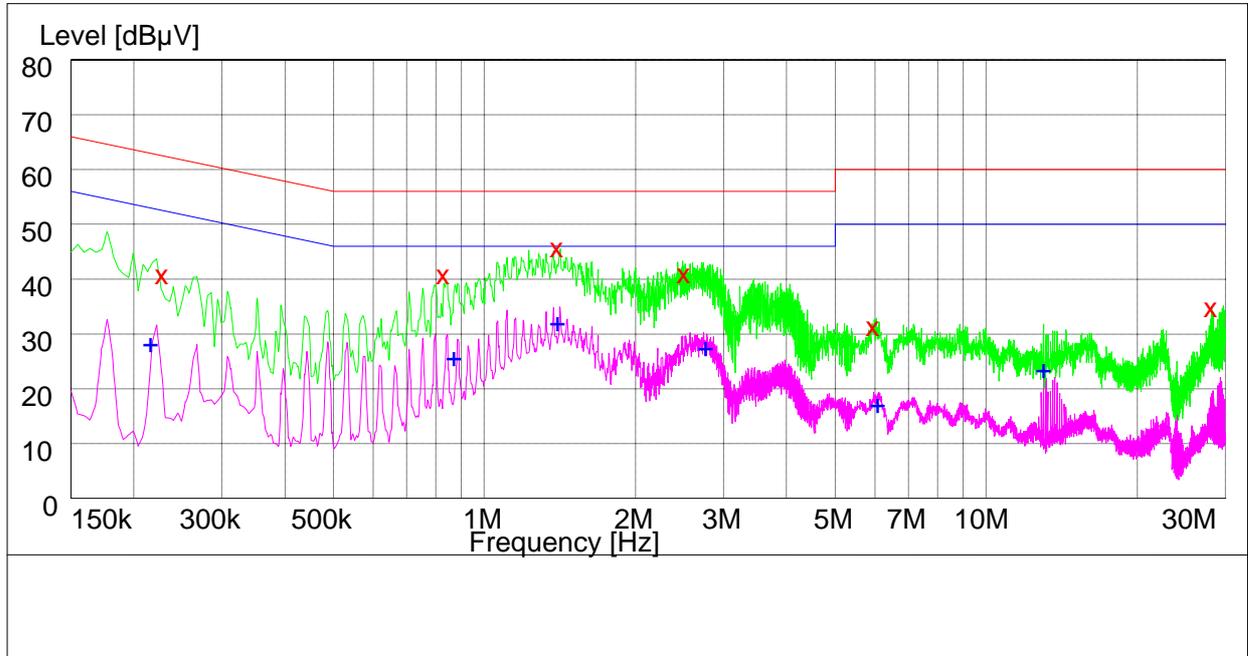
Appendix I

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
0.240000	39.90	10.0	63	23.1	L1	FLO
0.850000	40.80	10.1	56	15.2	N	FLO
1.390000	44.10	10.1	56	11.9	L1	FLO
2.600000	41.50	10.1	56	14.5	N	FLO
6.078000	30.10	10.2	60	29.9	N	FLO
28.544000	33.20	10.4	60	26.8	L1	FLO

MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.216000	29.50	10.0	53	23.5	N	FLO
0.868000	27.10	10.1	46	18.9	N	FLO
1.396000	33.30	10.1	46	12.7	N	FLO
2.764000	28.80	10.2	46	17.2	N	FLO
6.082000	18.50	10.2	50	31.5	N	FLO
13.012000	24.80	10.3	50	25.2	N	FLO