



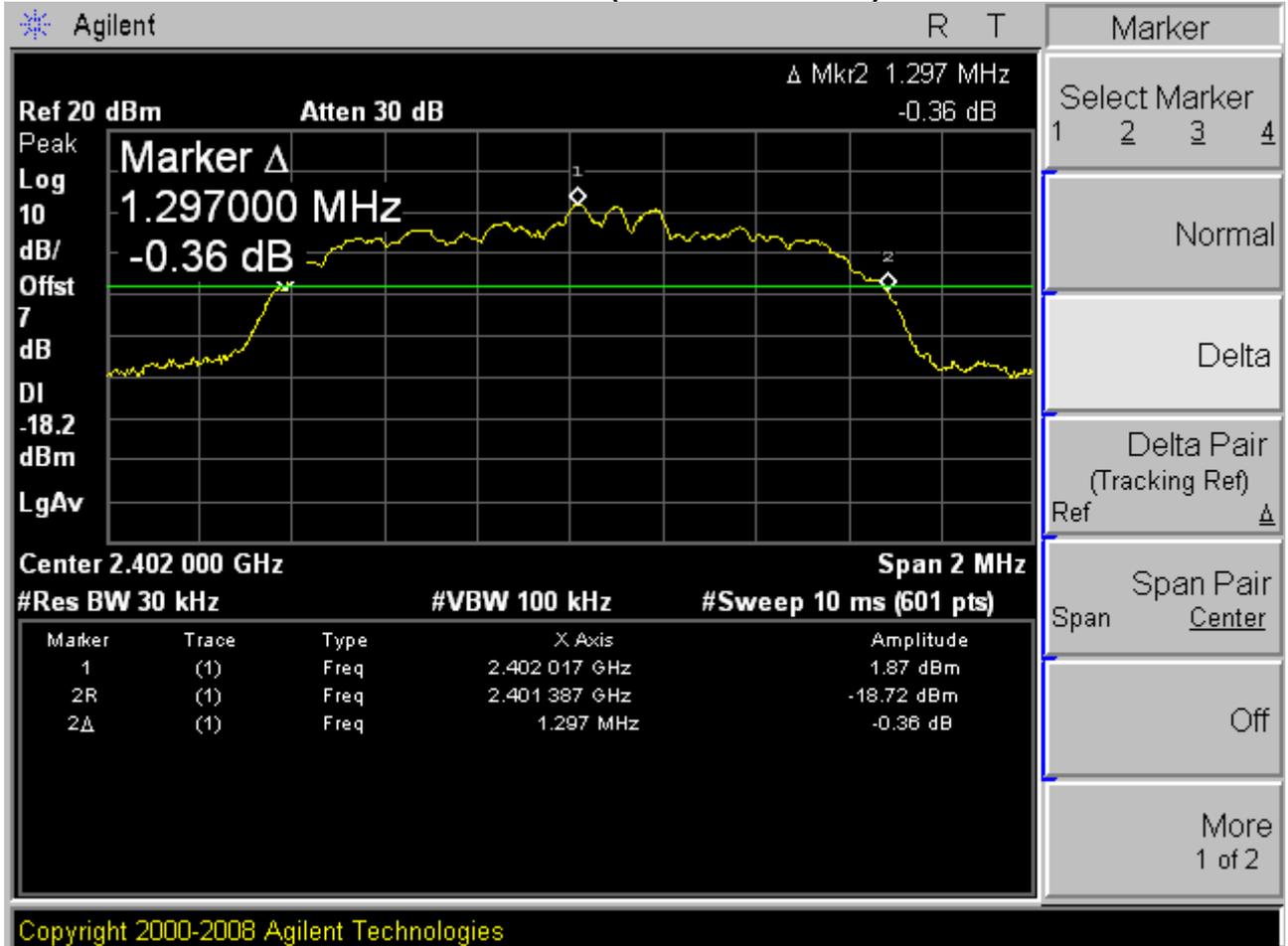
# Appendix A

## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)

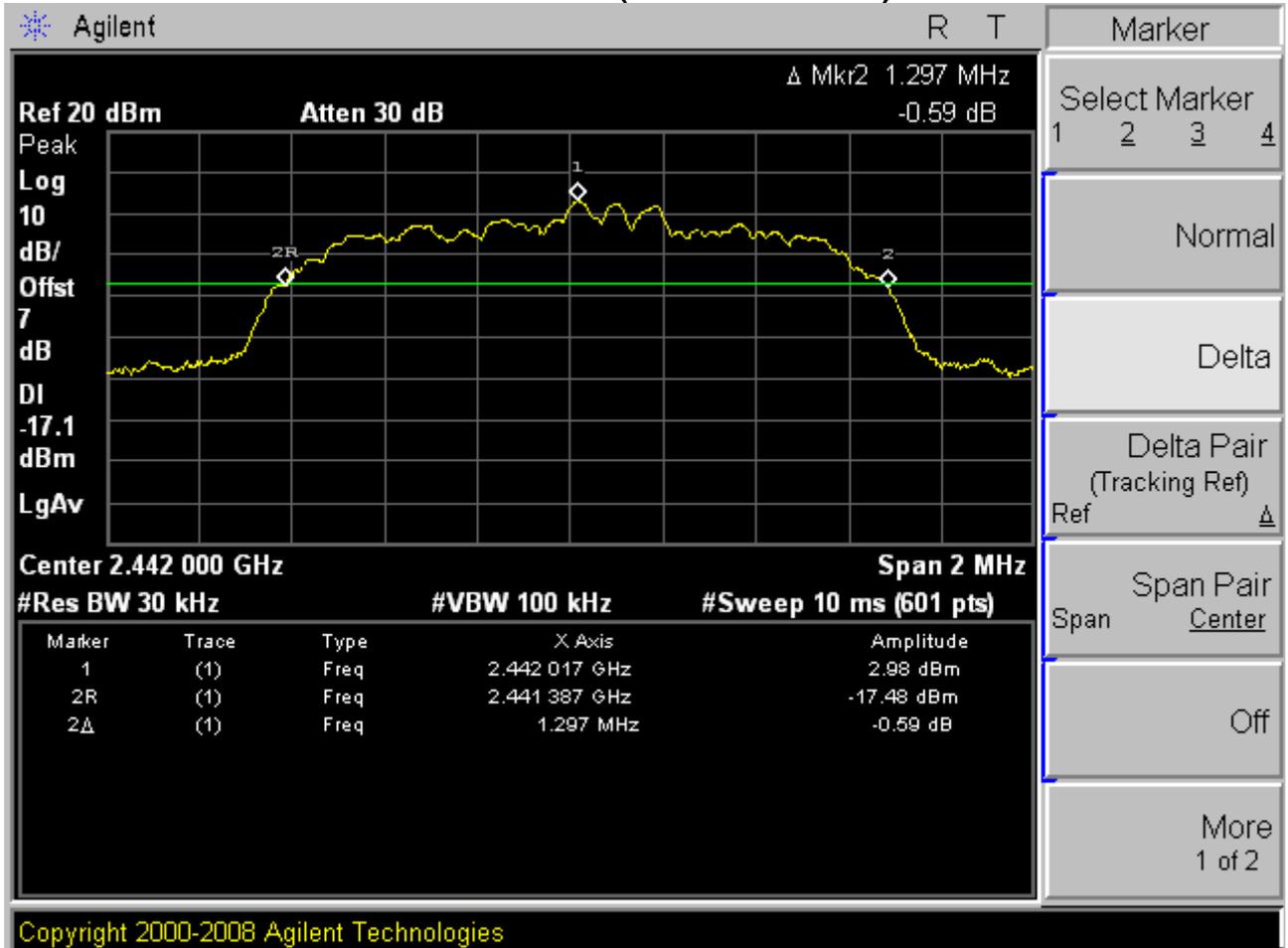


# Modulation: $\pi/4$ -DQPSK Channel 0 (2402MHz)



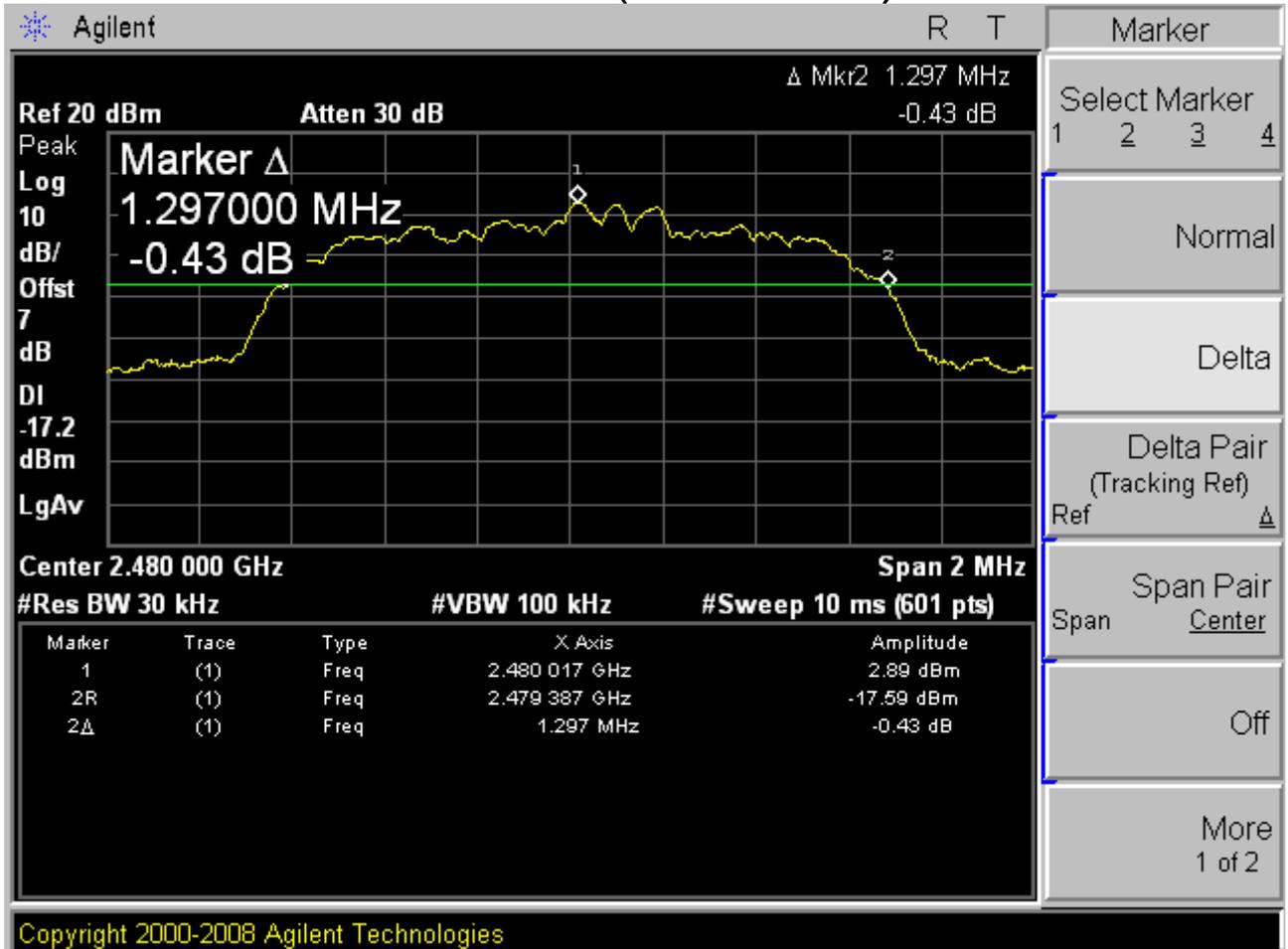


# Channel 40 (2442MHz)



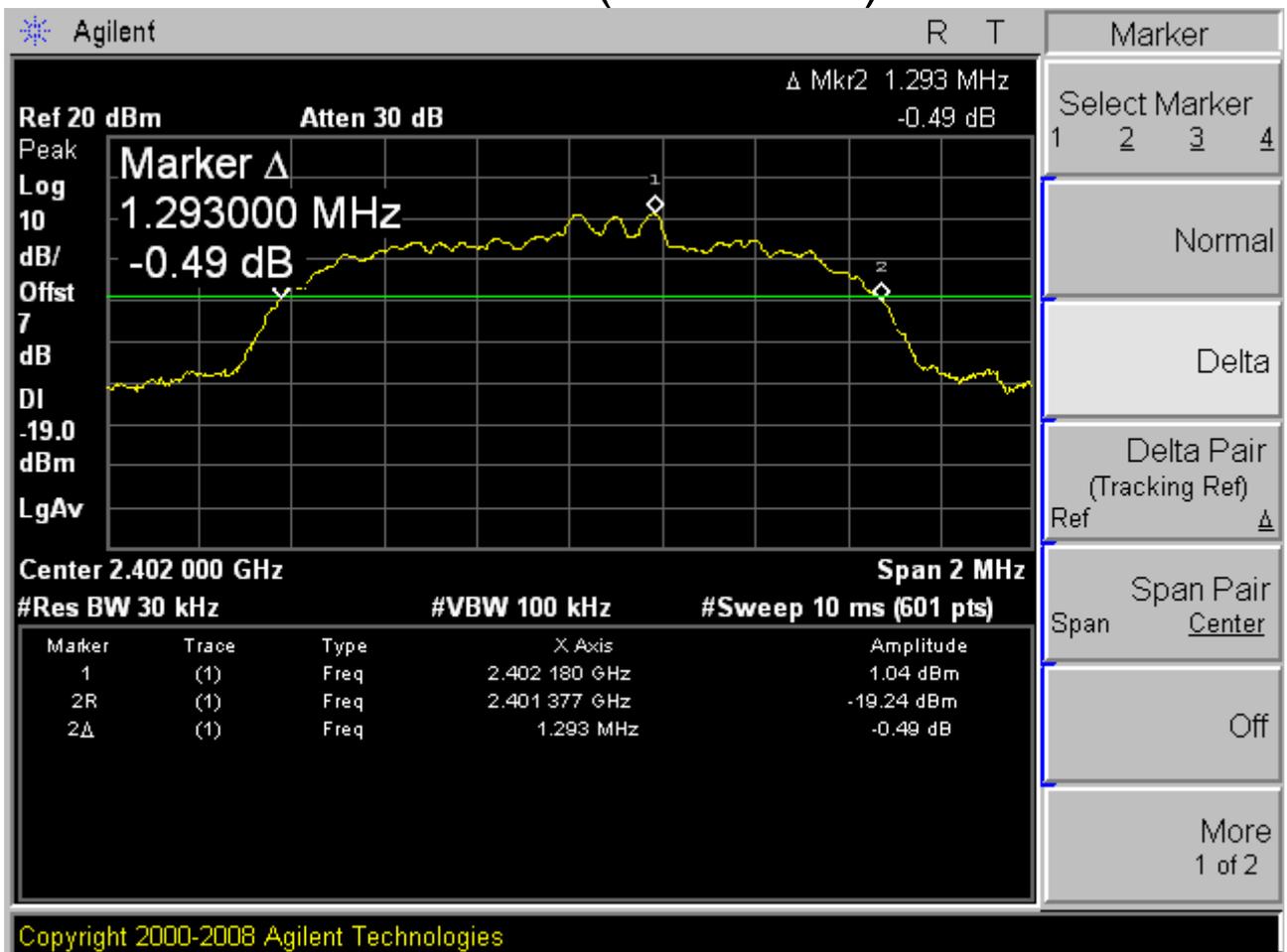


## Channel 78 (2480MHz)



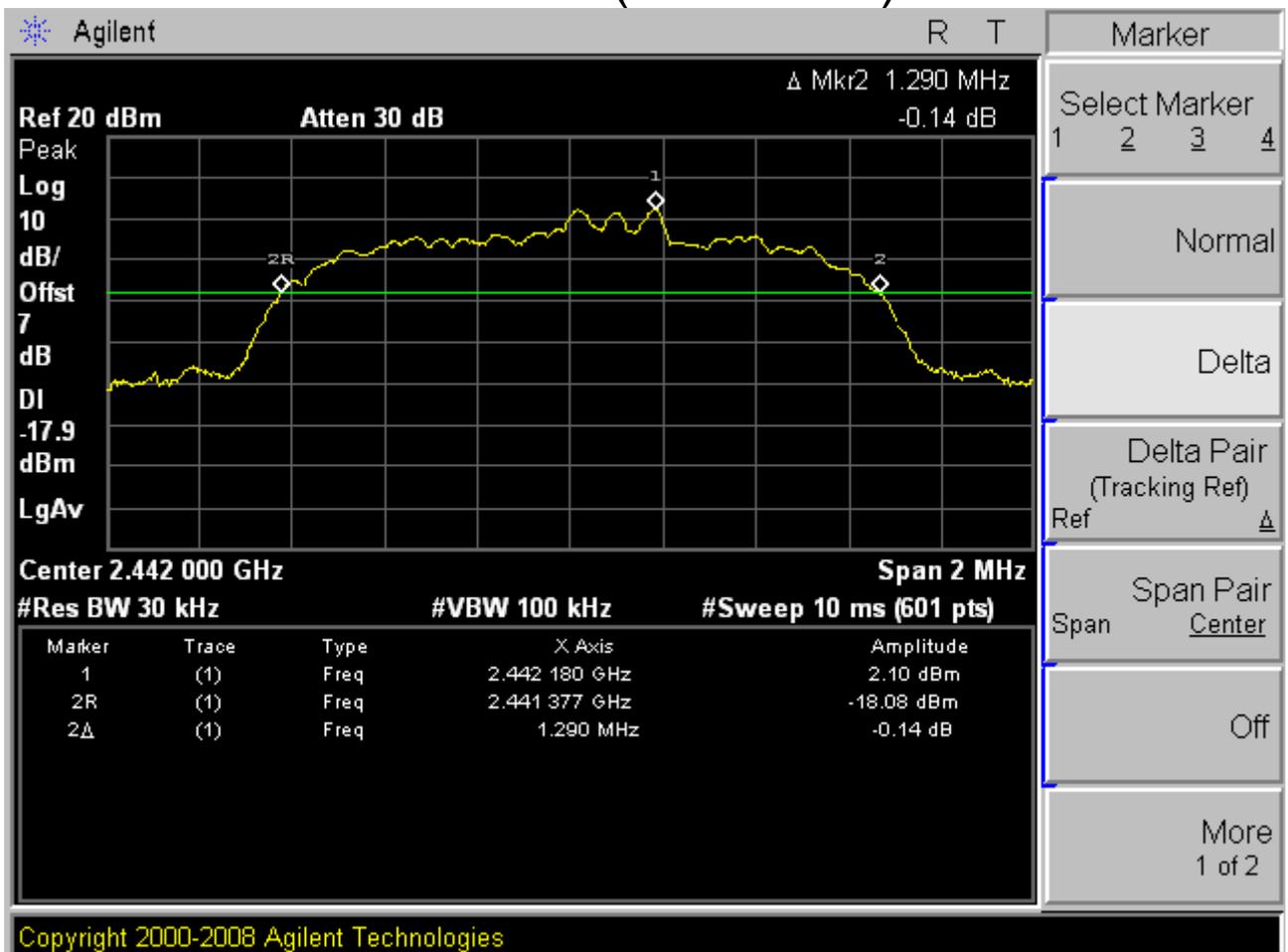


## Modulation: 8DPSK Channel 0 (2402MHz)



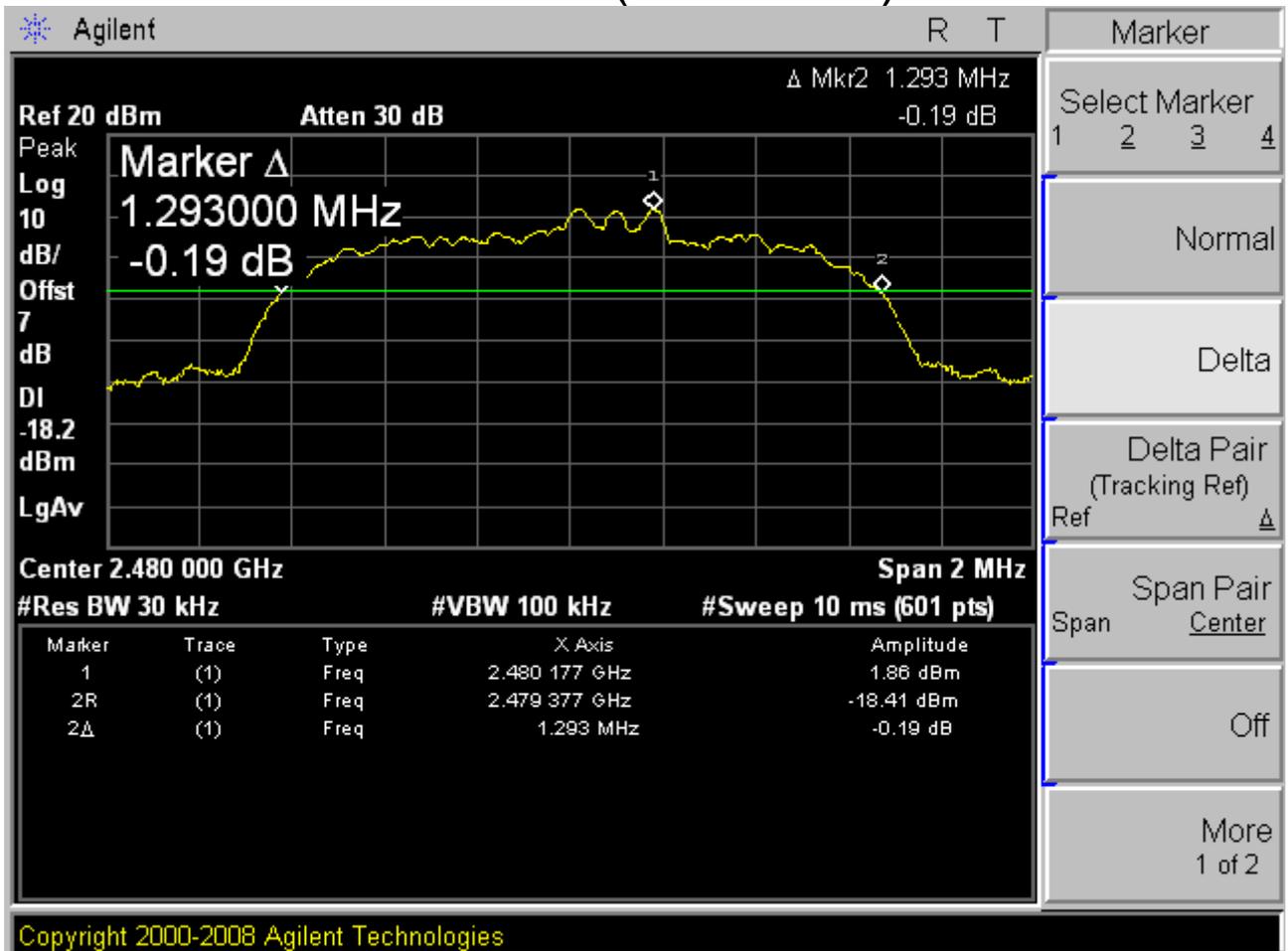


## Channel 40 (2442MHz)





## Channel 78 (2480MHz)





## **Appendix B**

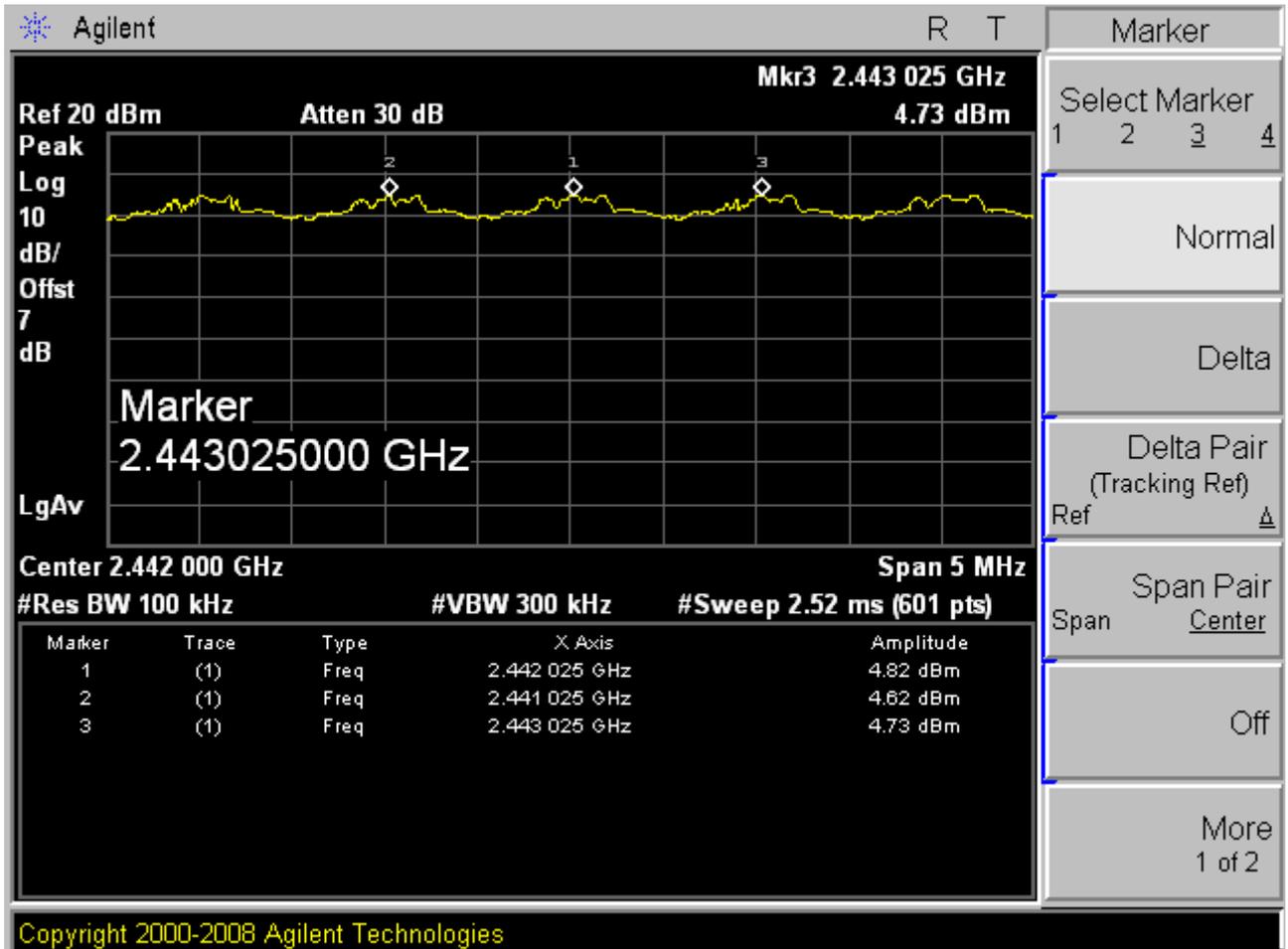
# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



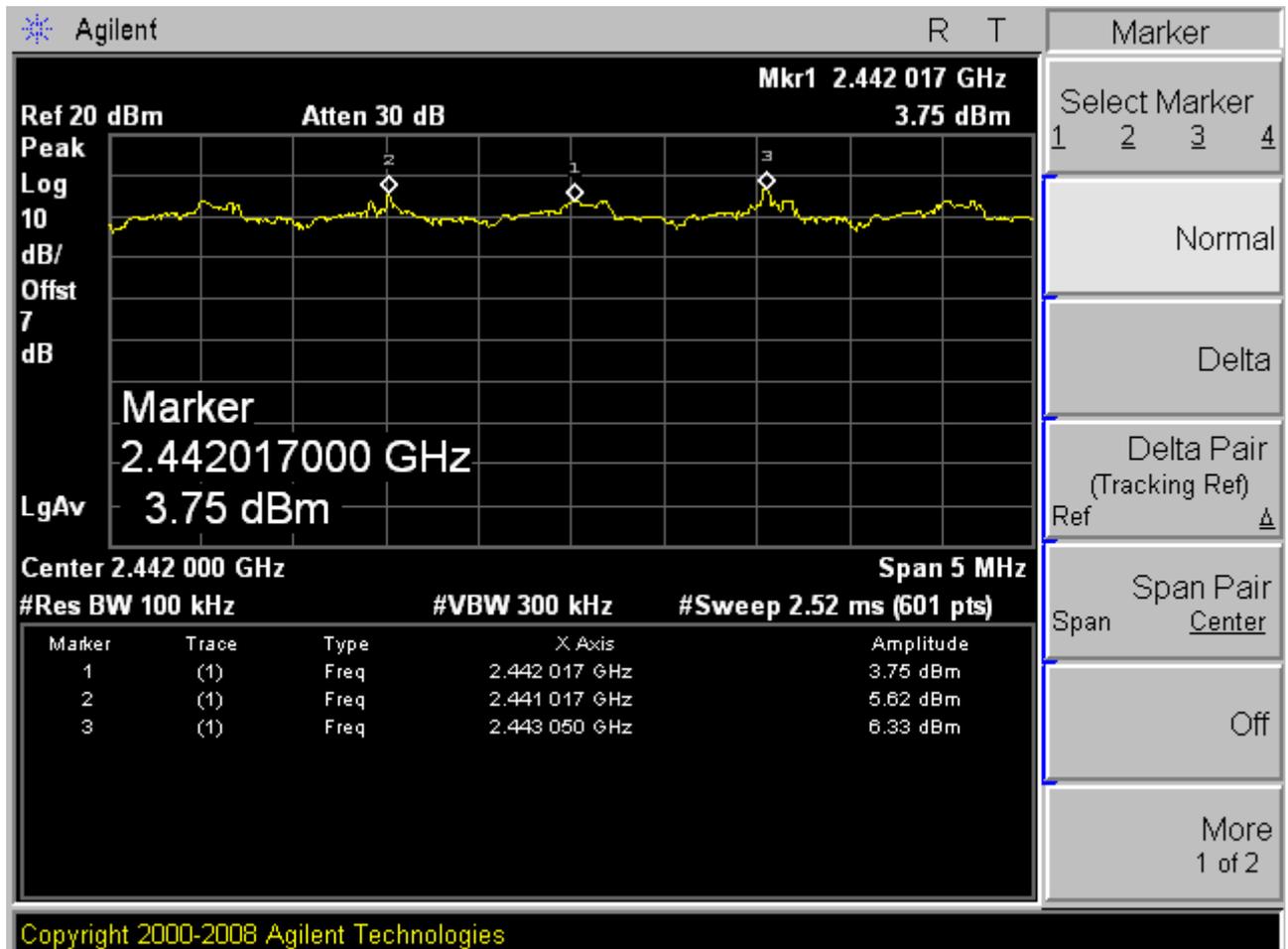
Modulation:  $\pi/4$ -DQPSK

Centred at Channel 40





## Modulation: 8DPSK Centred at Channel 40





## Appendix C

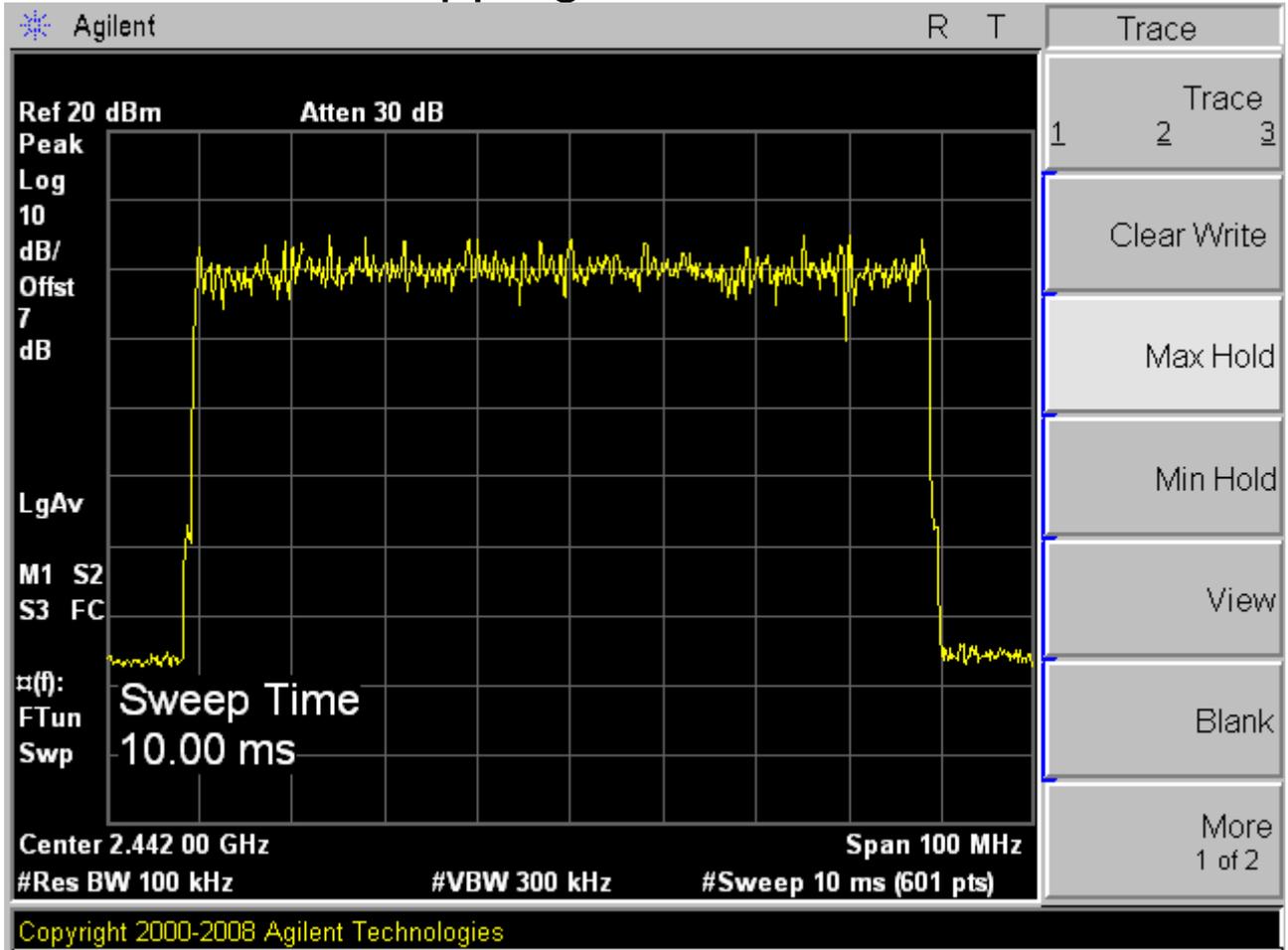
# Number of hopping channel

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



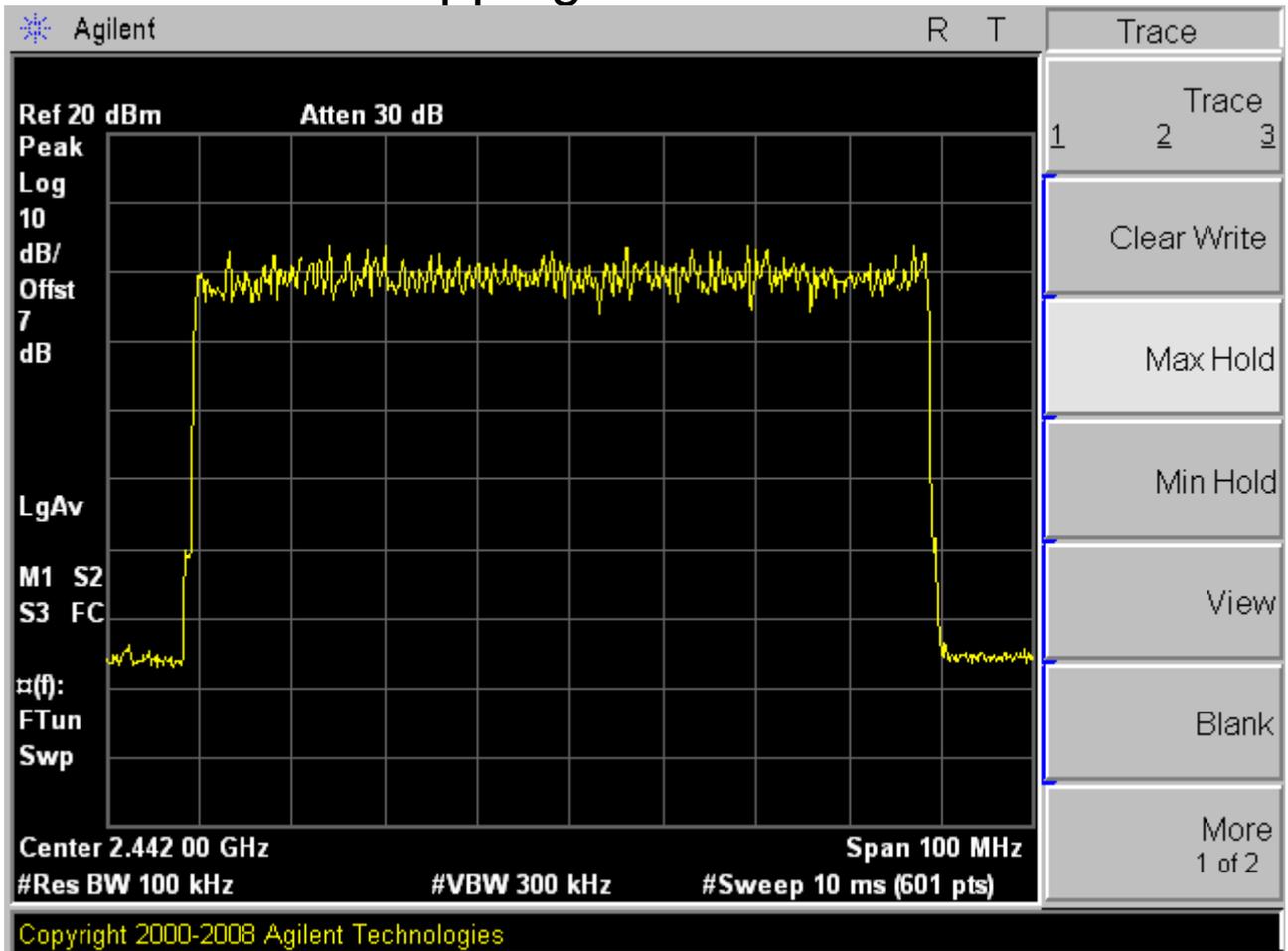
Modulation:  $\pi/4$ -DQPSK

Total hopping channels = 79





## Modulation: 8DPSK Total hopping channels = 79





# Appendix D

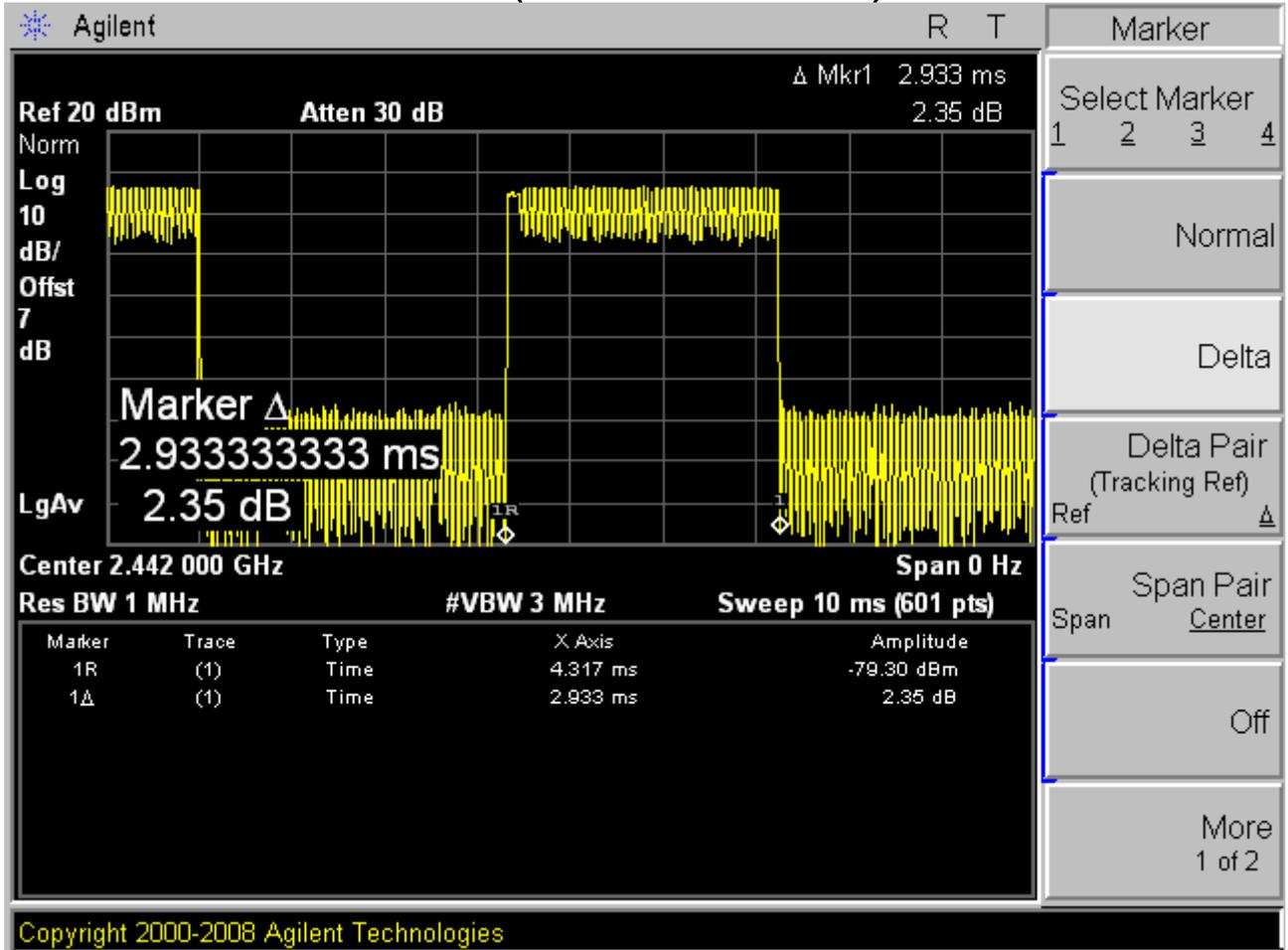
## Time of occupancy

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



Modulation:  $\pi/4$ -DQPSK

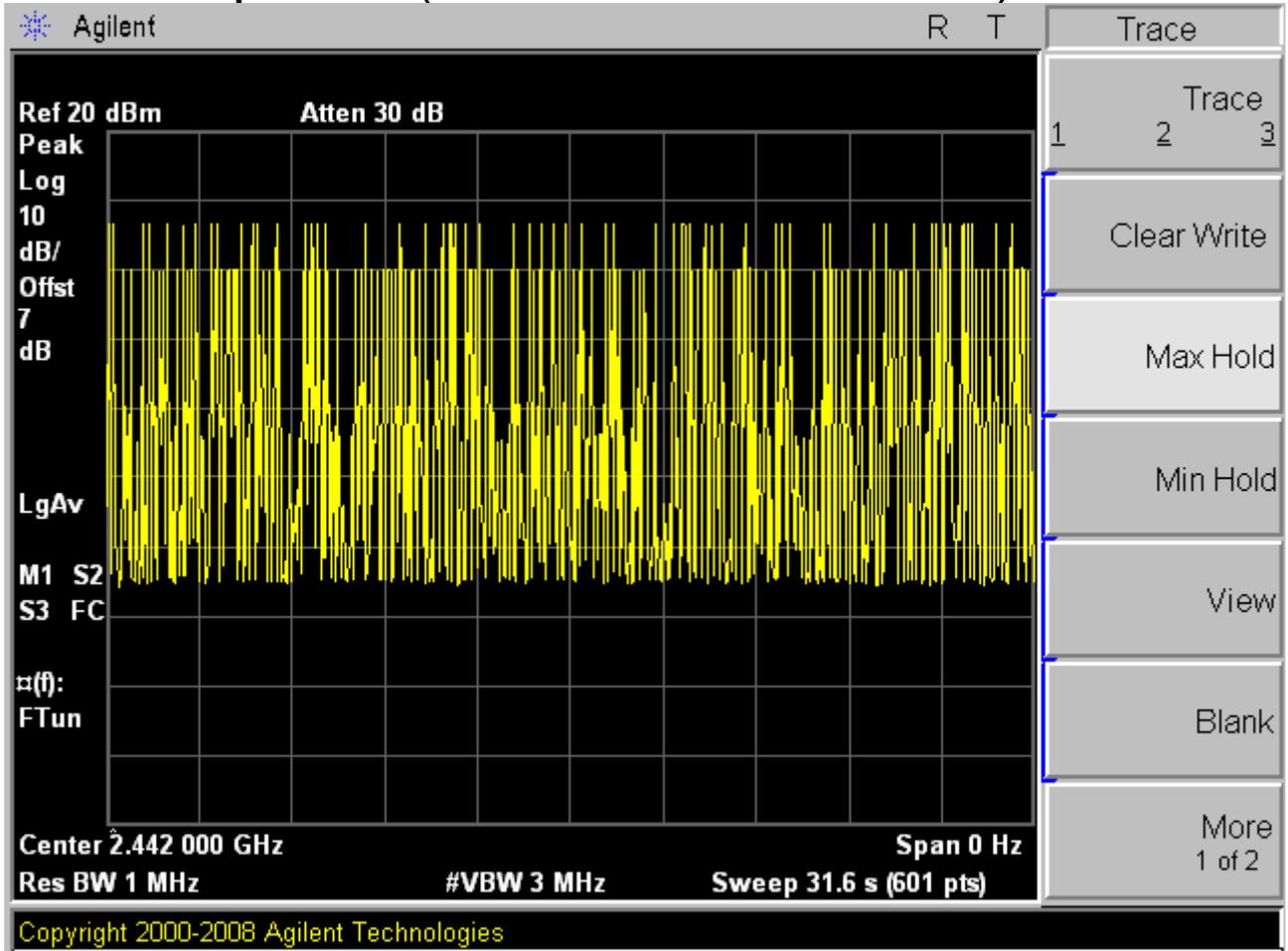
A burst (One time slot)



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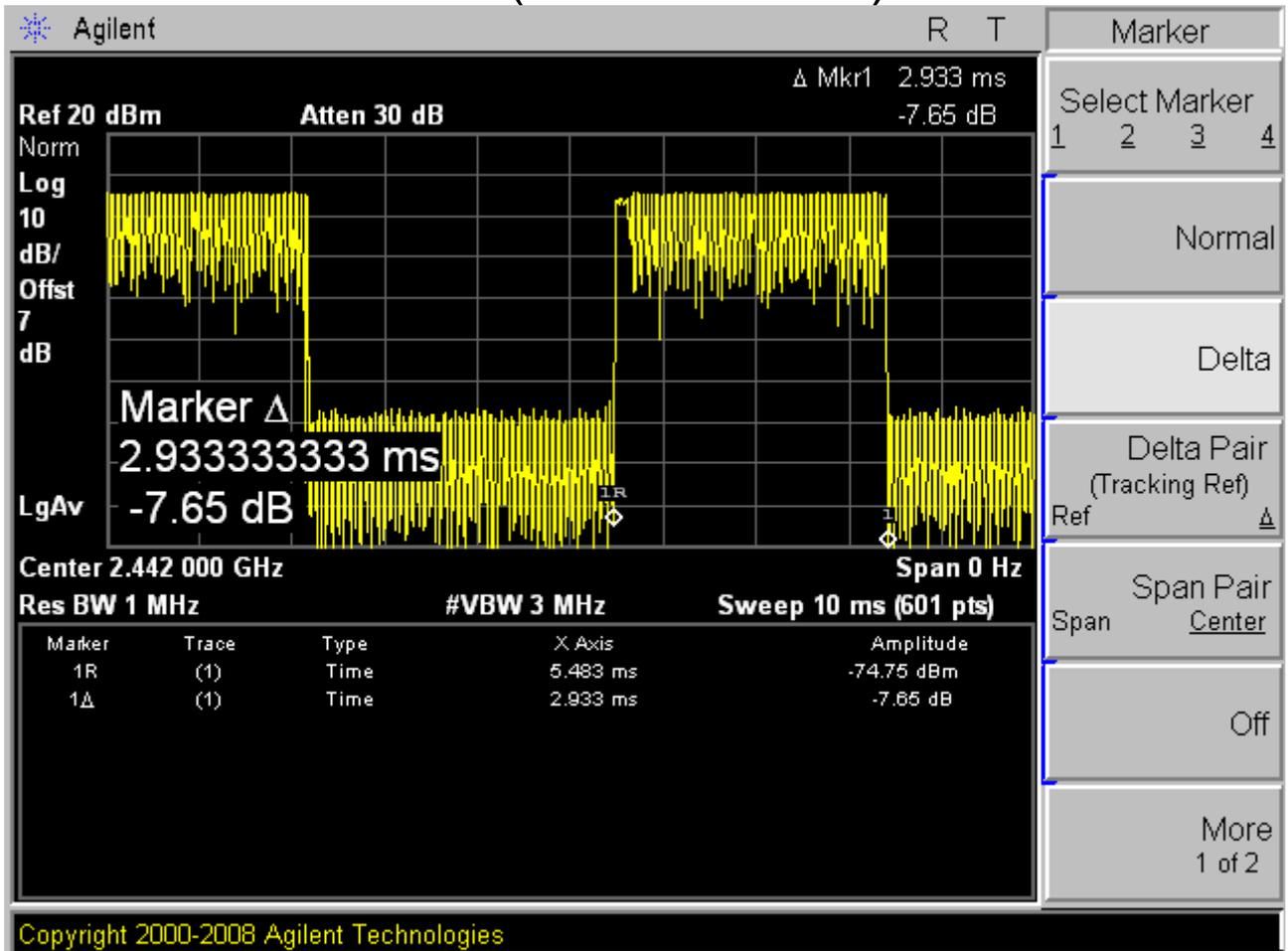
# A period (Less than 106.7 burst)





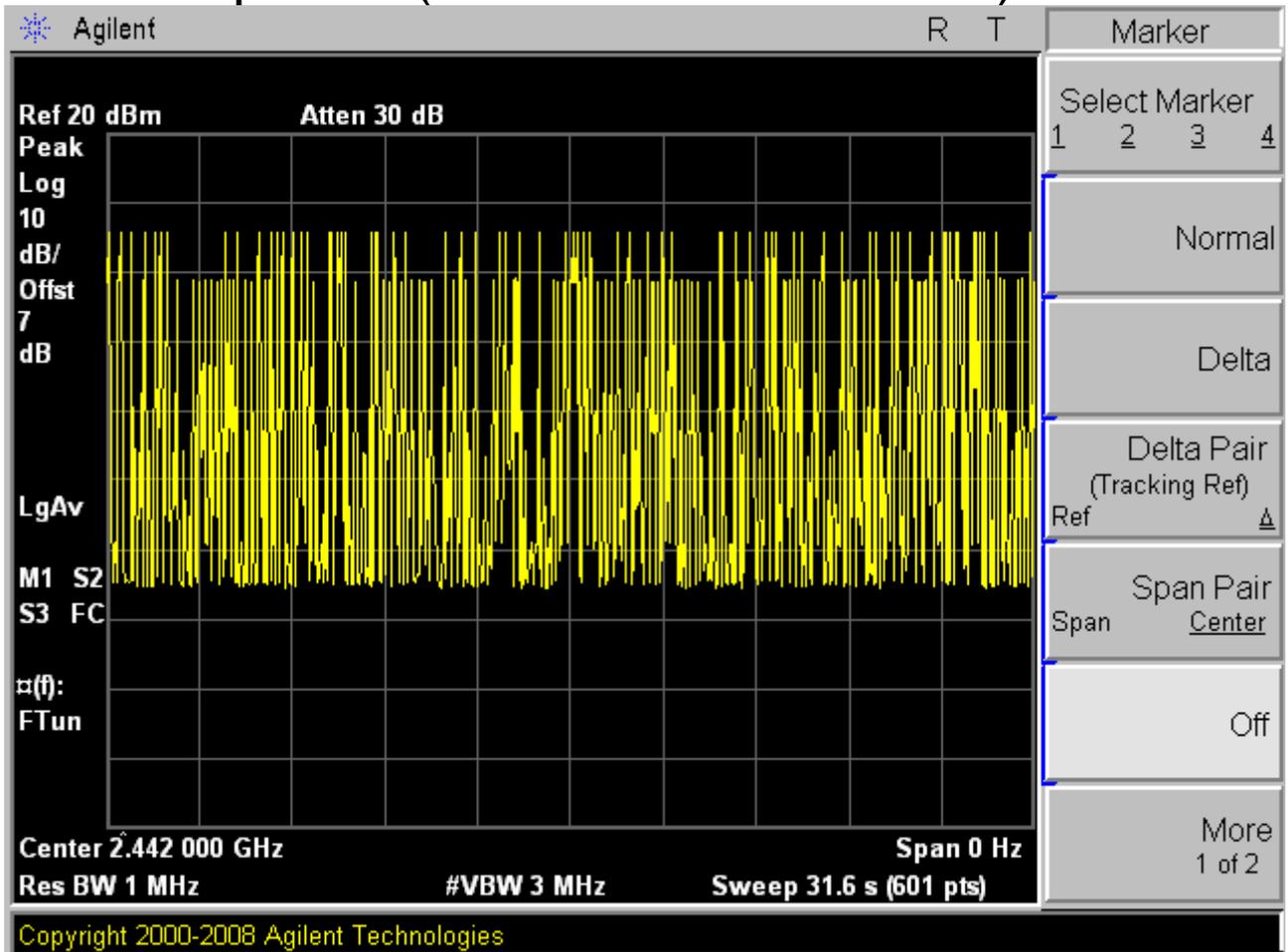
## Modulation: 8DPSK

### A burst (One time slot)





## A period (Less than 106.7 burst)





# Appendix E

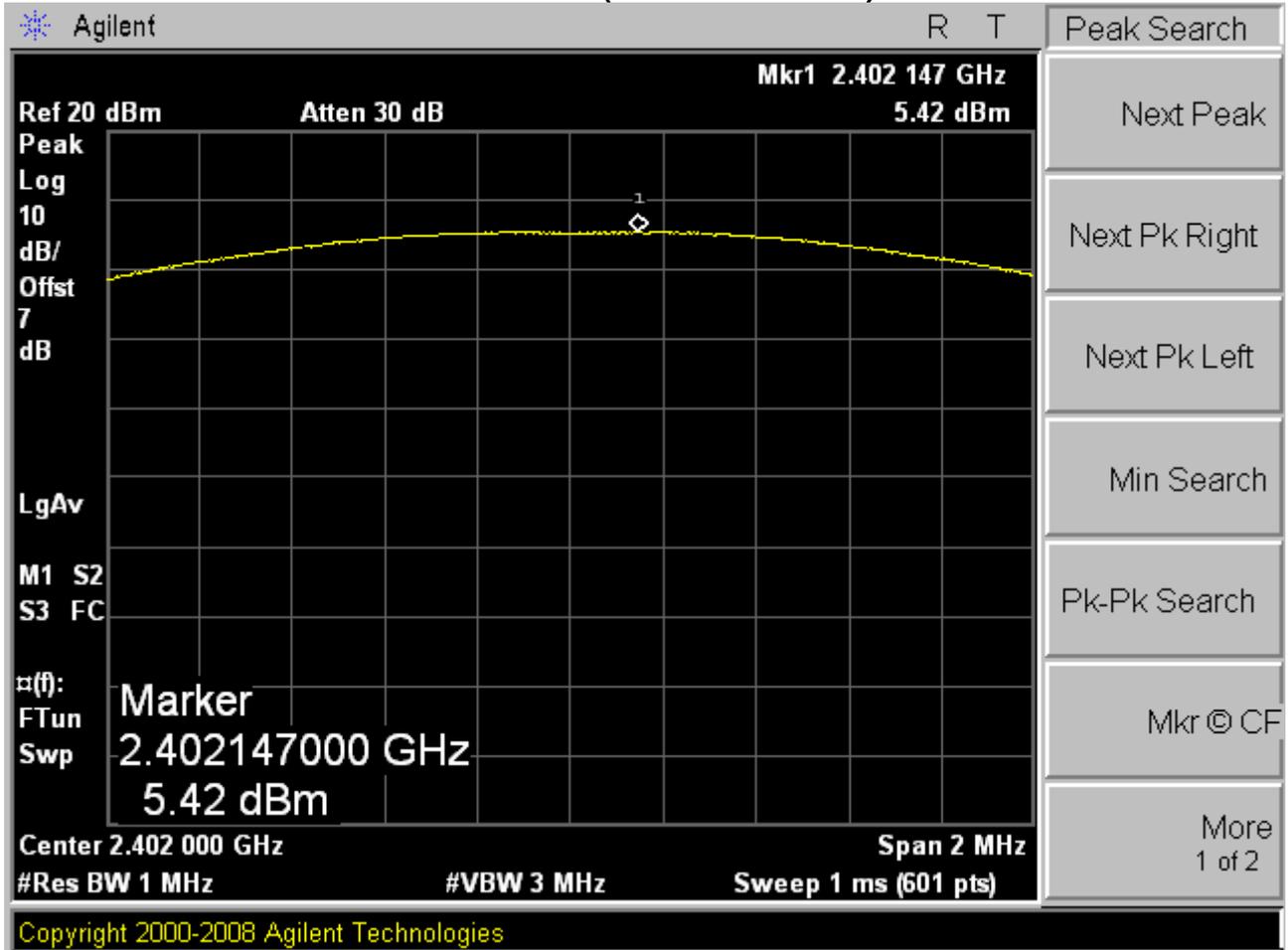
## Peak output power

According to FCC Part 15.247 (b) (1)



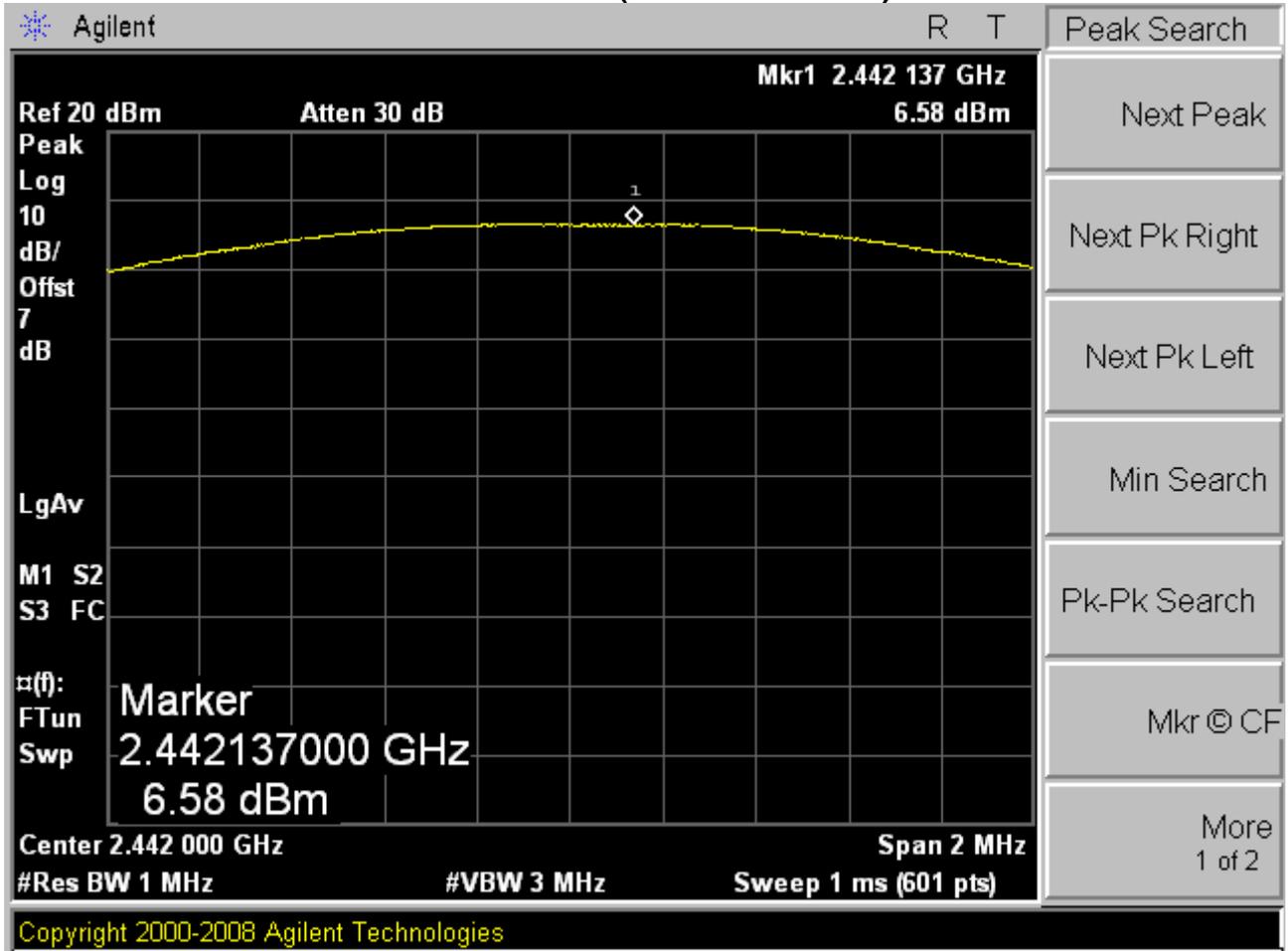
Modulation:  $\pi/4$ -DQPSK

Channel 0 (2402MHz)



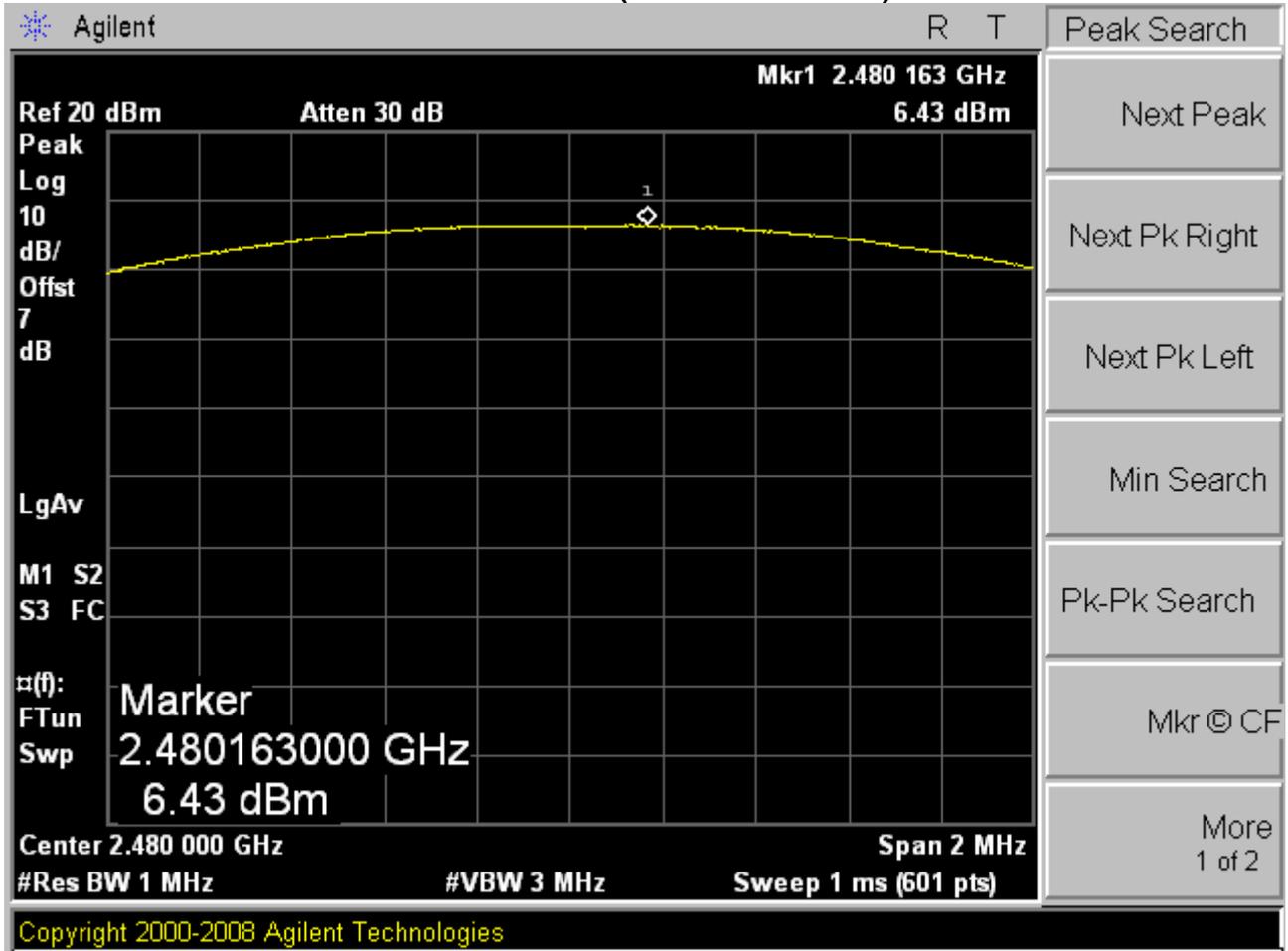


# Channel 40 (2442MHz)



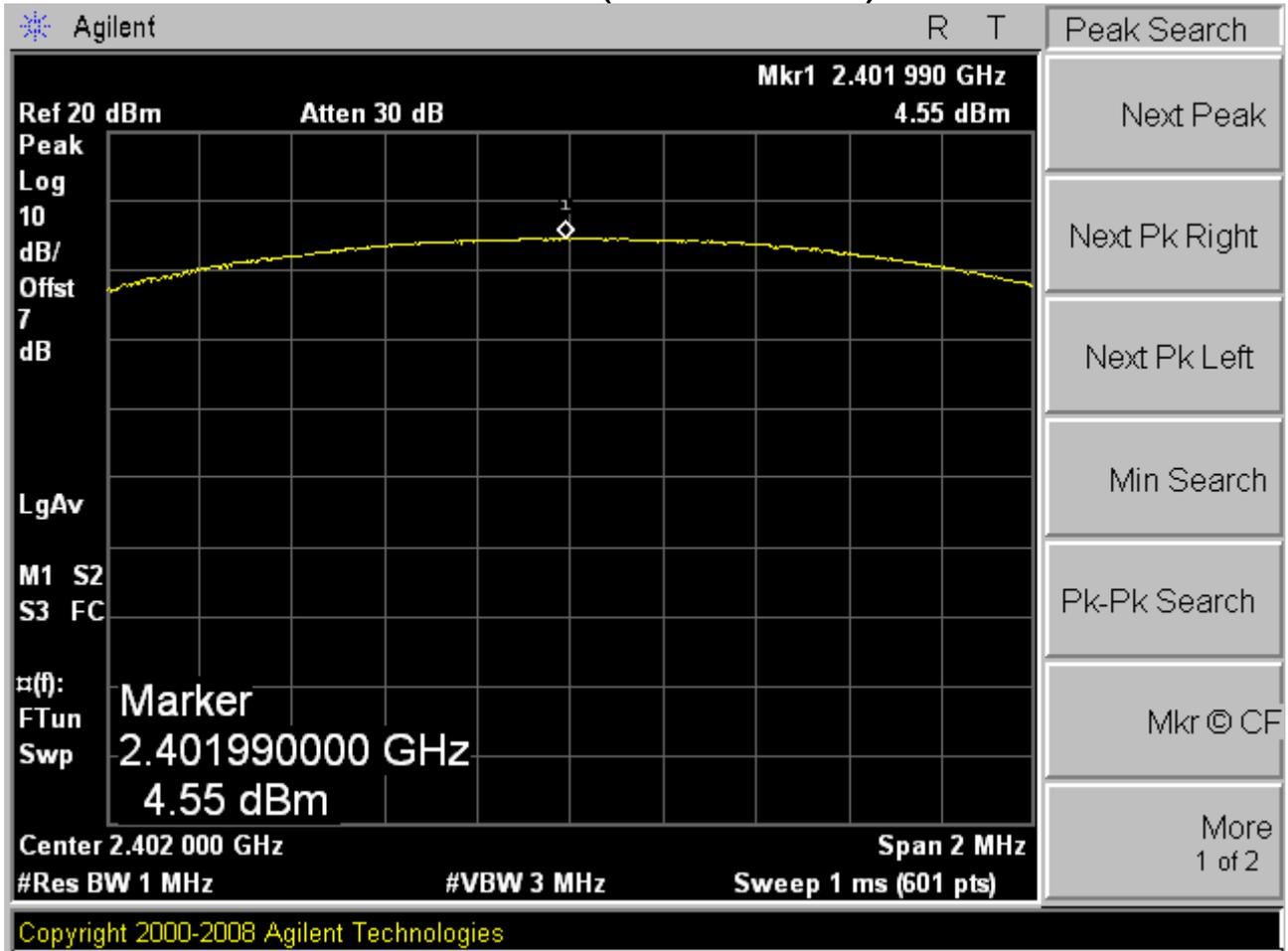


# Channel 78 (2480MHz)



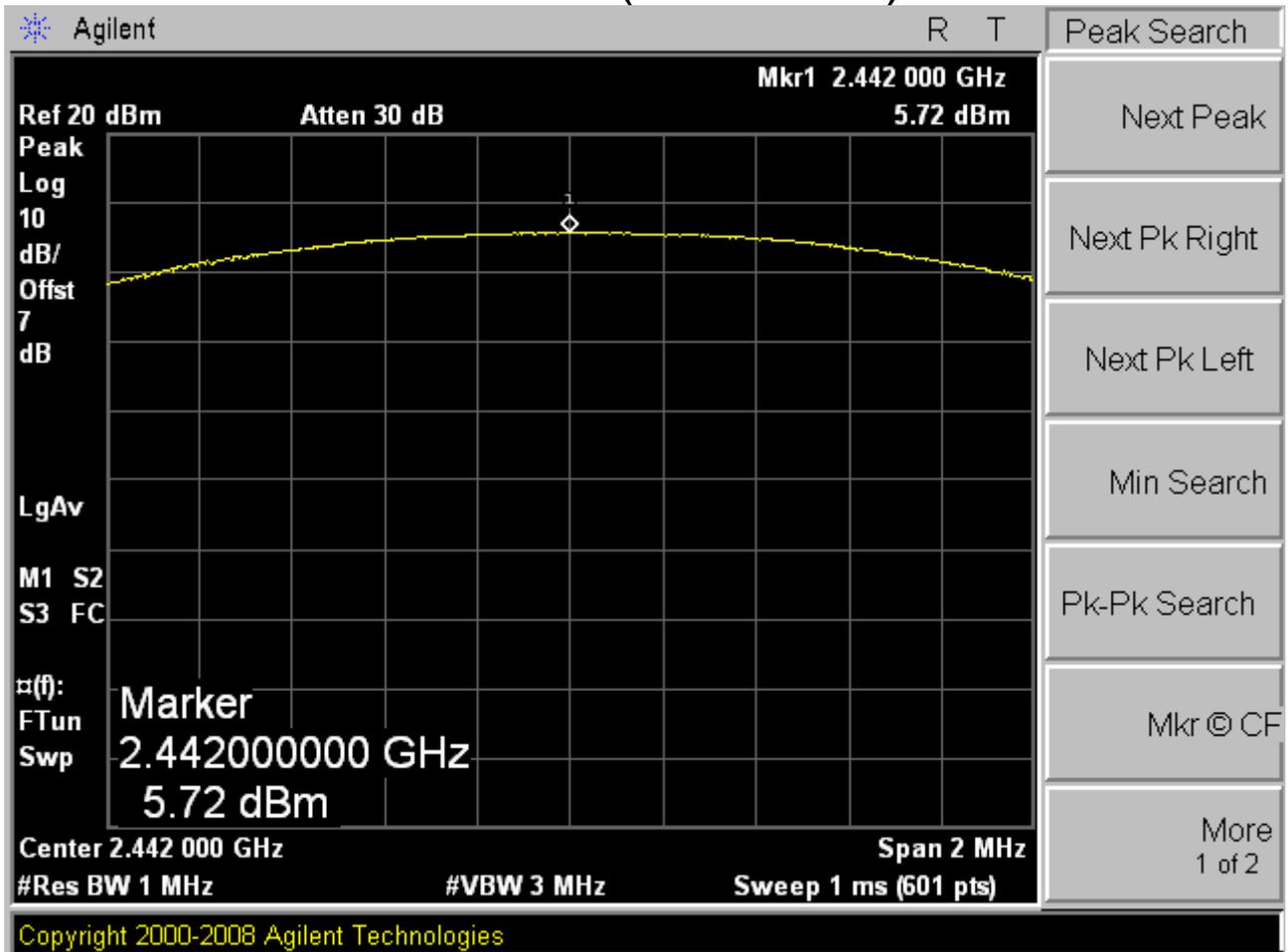


# Modulation: 8DPSK Channel 0 (2402MHz)





# Channel 40 (2442MHz)





# Channel 78 (2480MHz)





# Appendix F

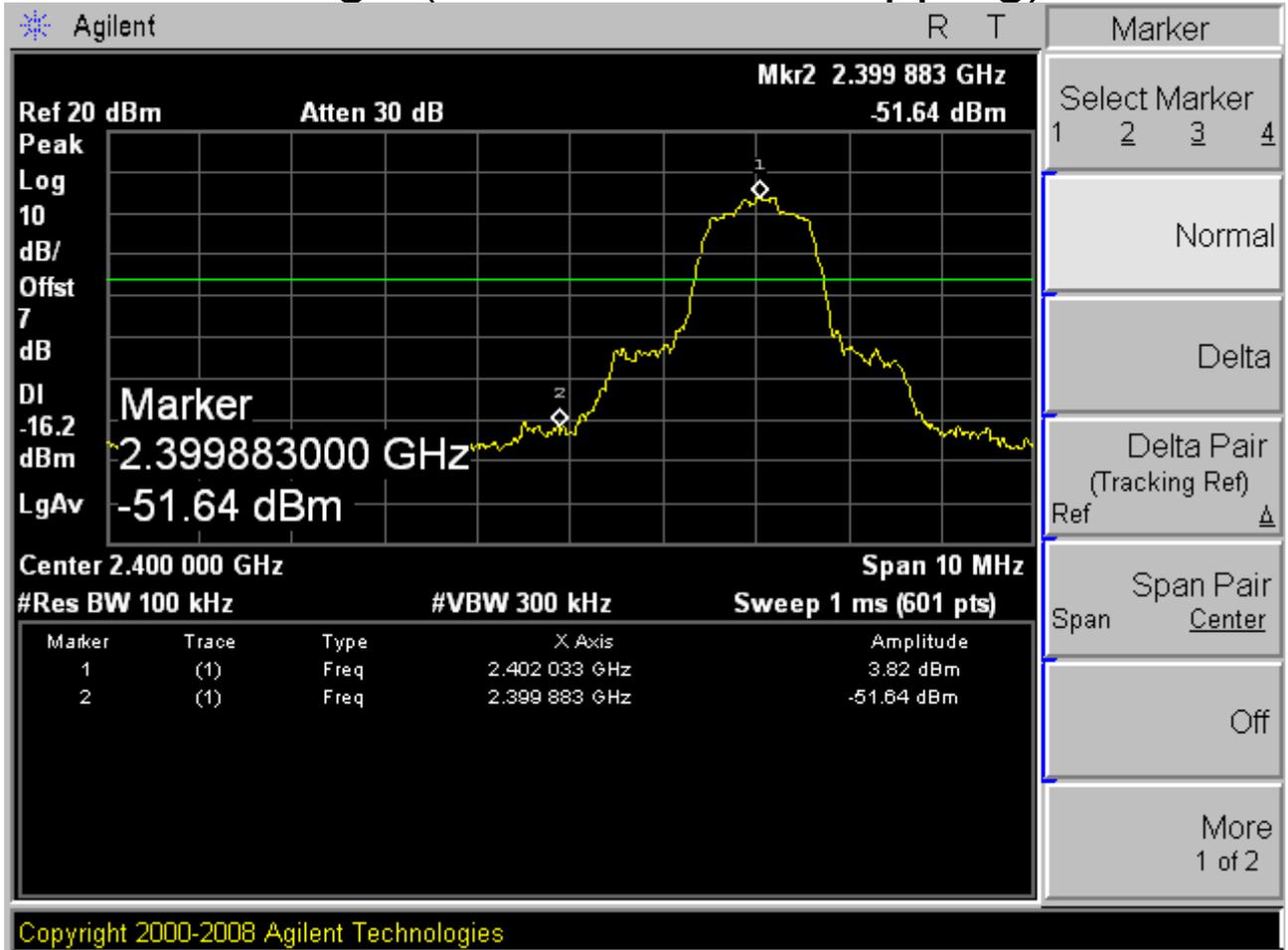
## Band edge spurious emission

According to FCC Part 15.247 (d)



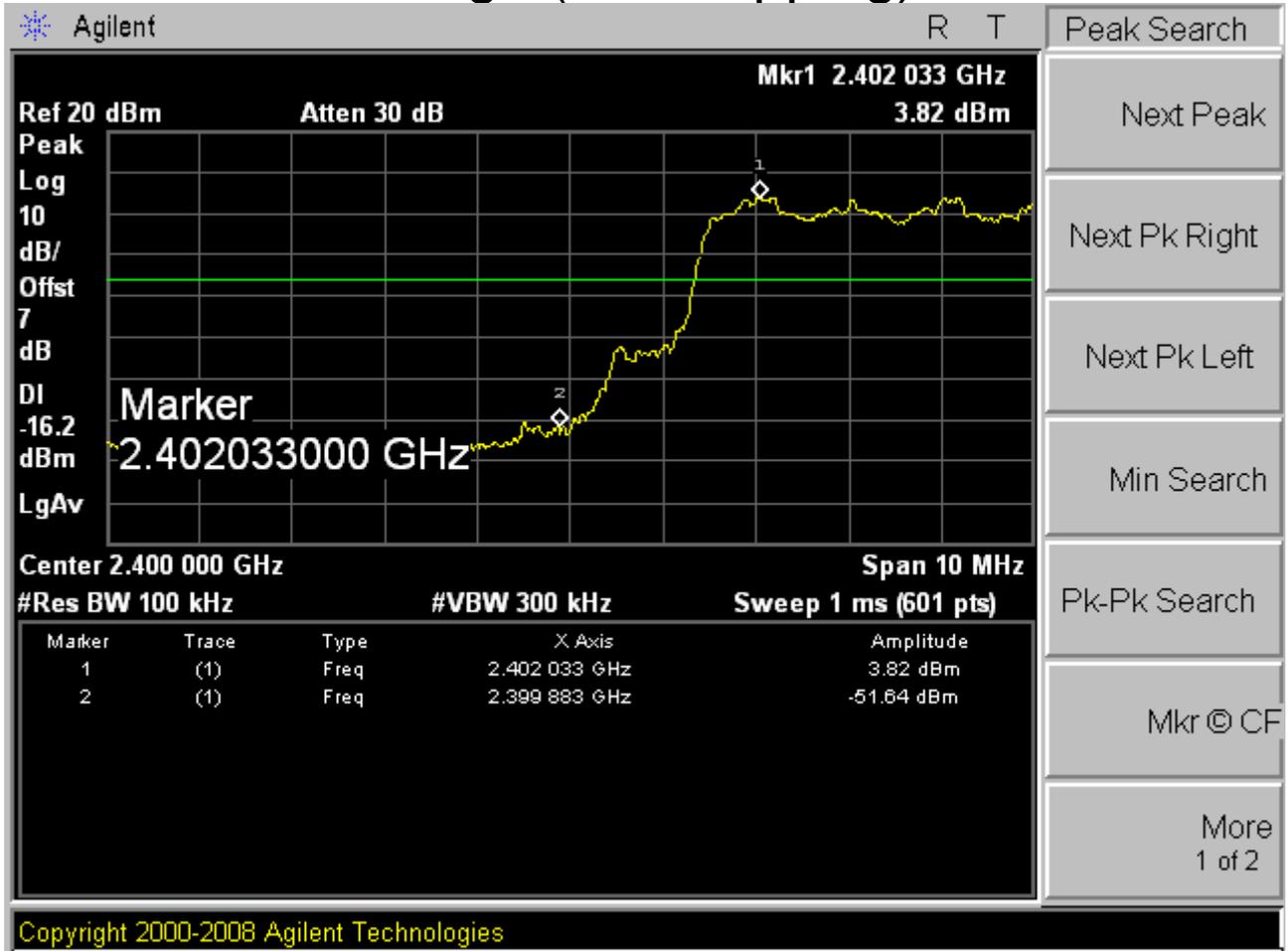
Modulation:  $\pi/4$ -DQPSK

Low edge (Channel 0, no hopping)



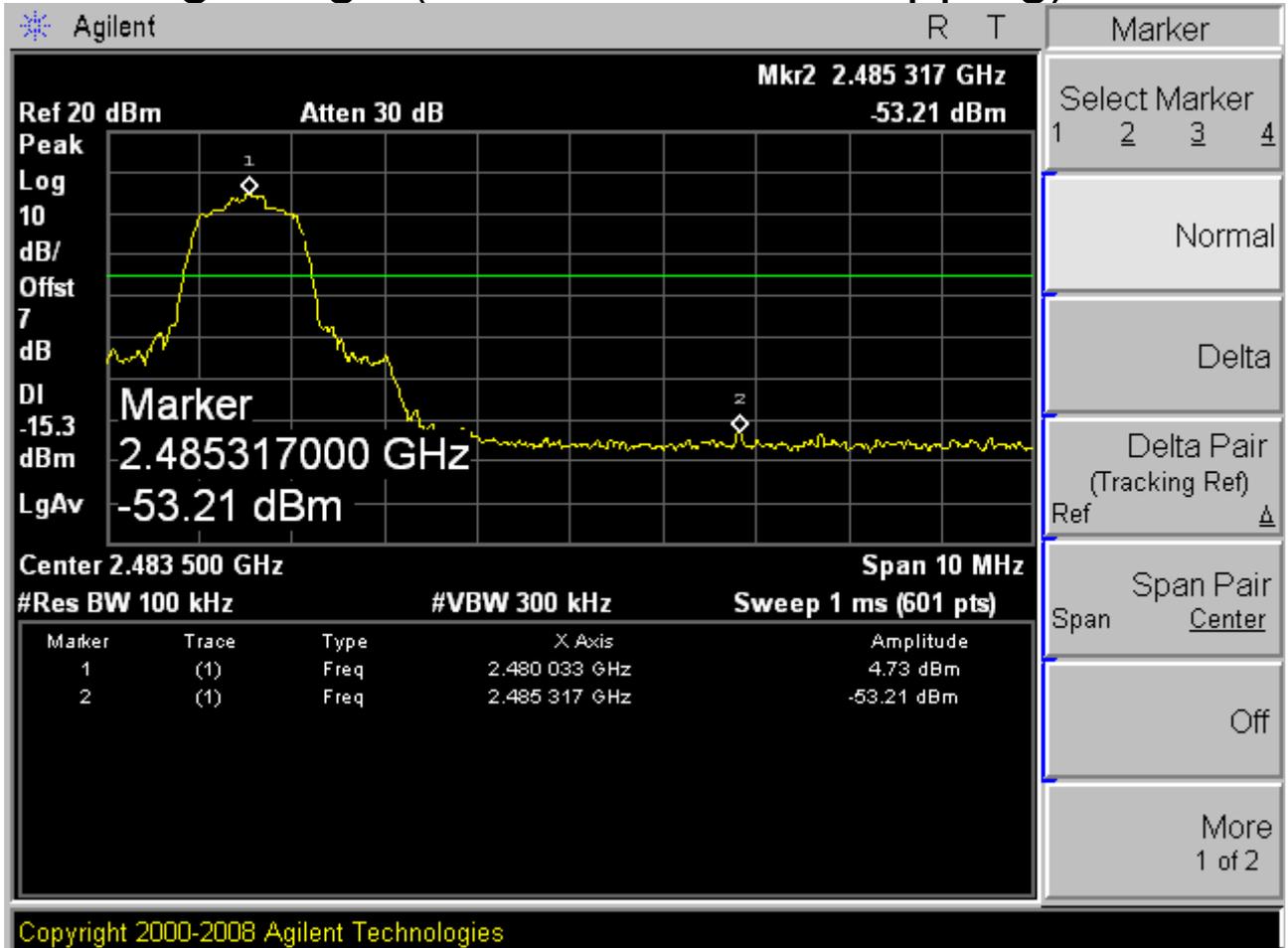


# Low edge (with hopping)



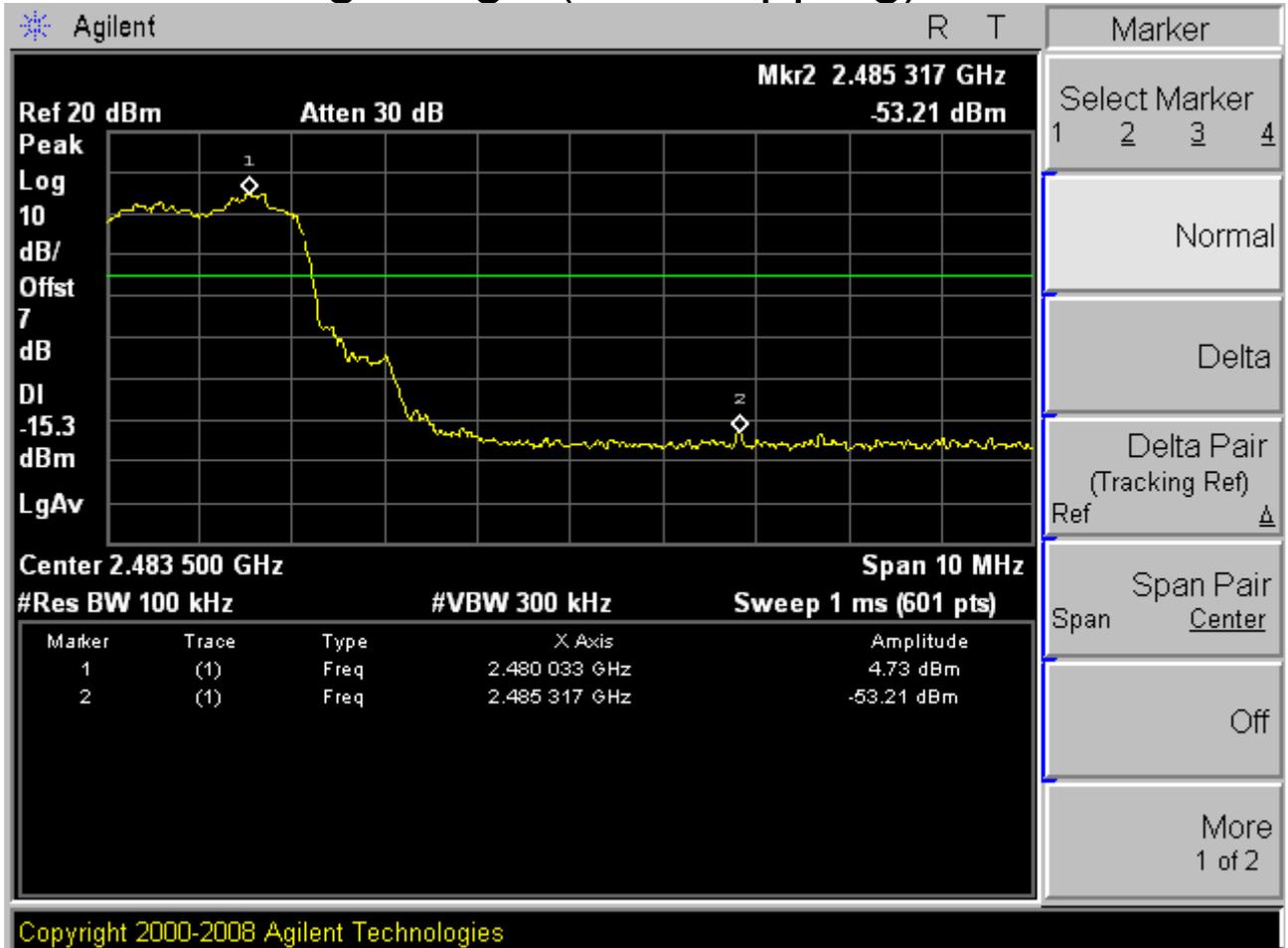


# High edge (Channel 78, no hopping)



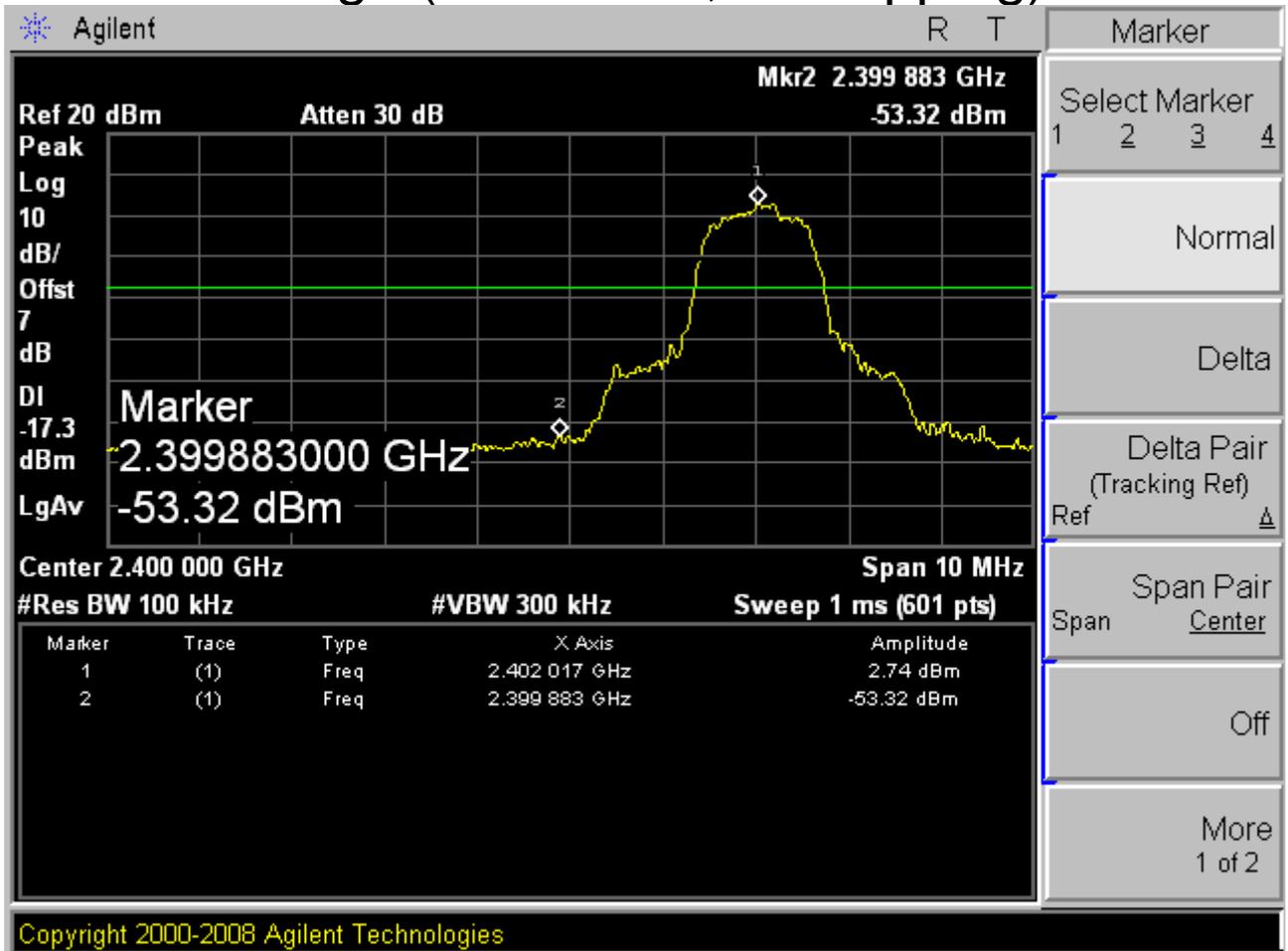


# High edge (with hopping)





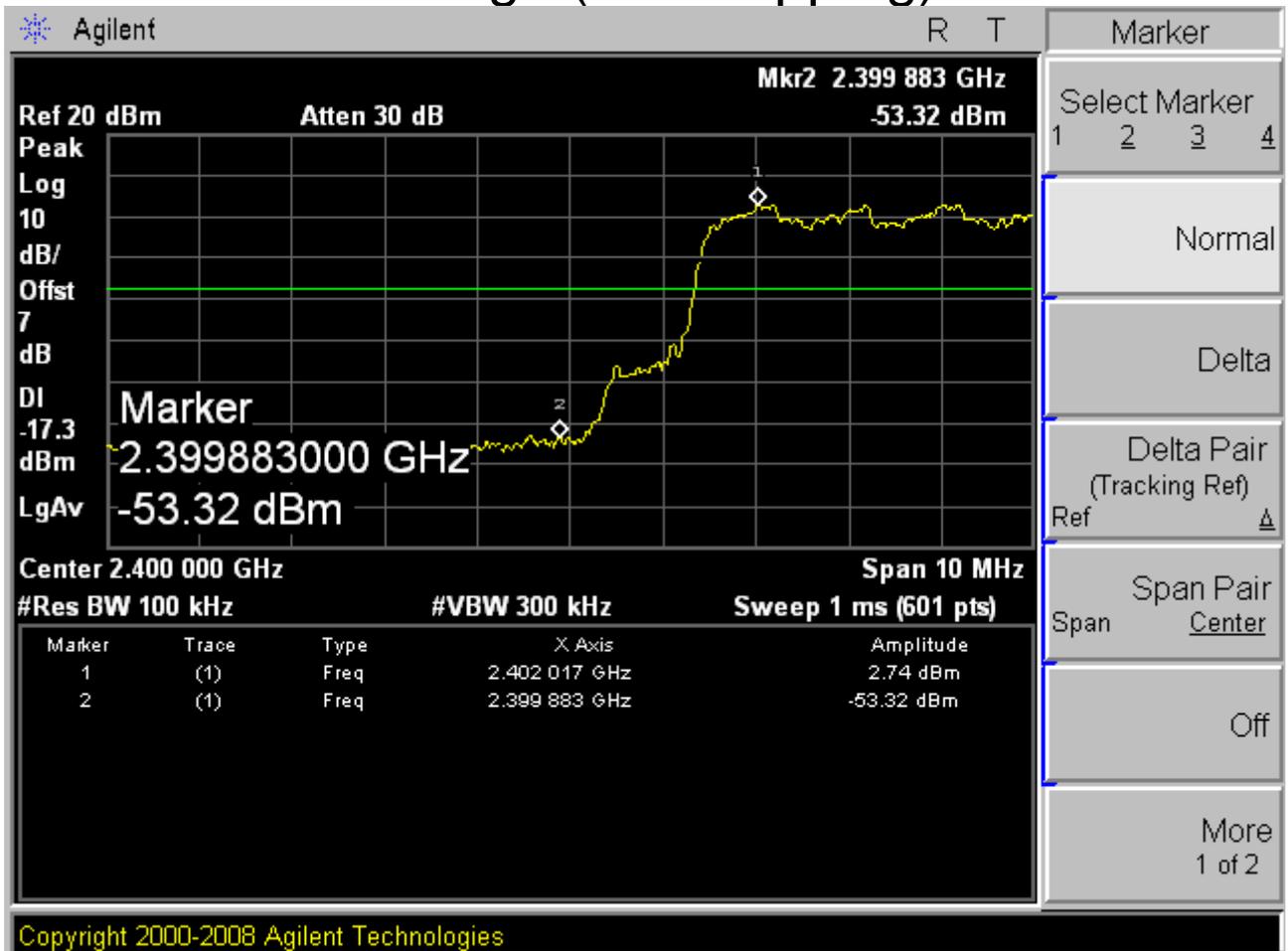
## Modulation: 8DPSK Low edge (Channel 0, no hopping)



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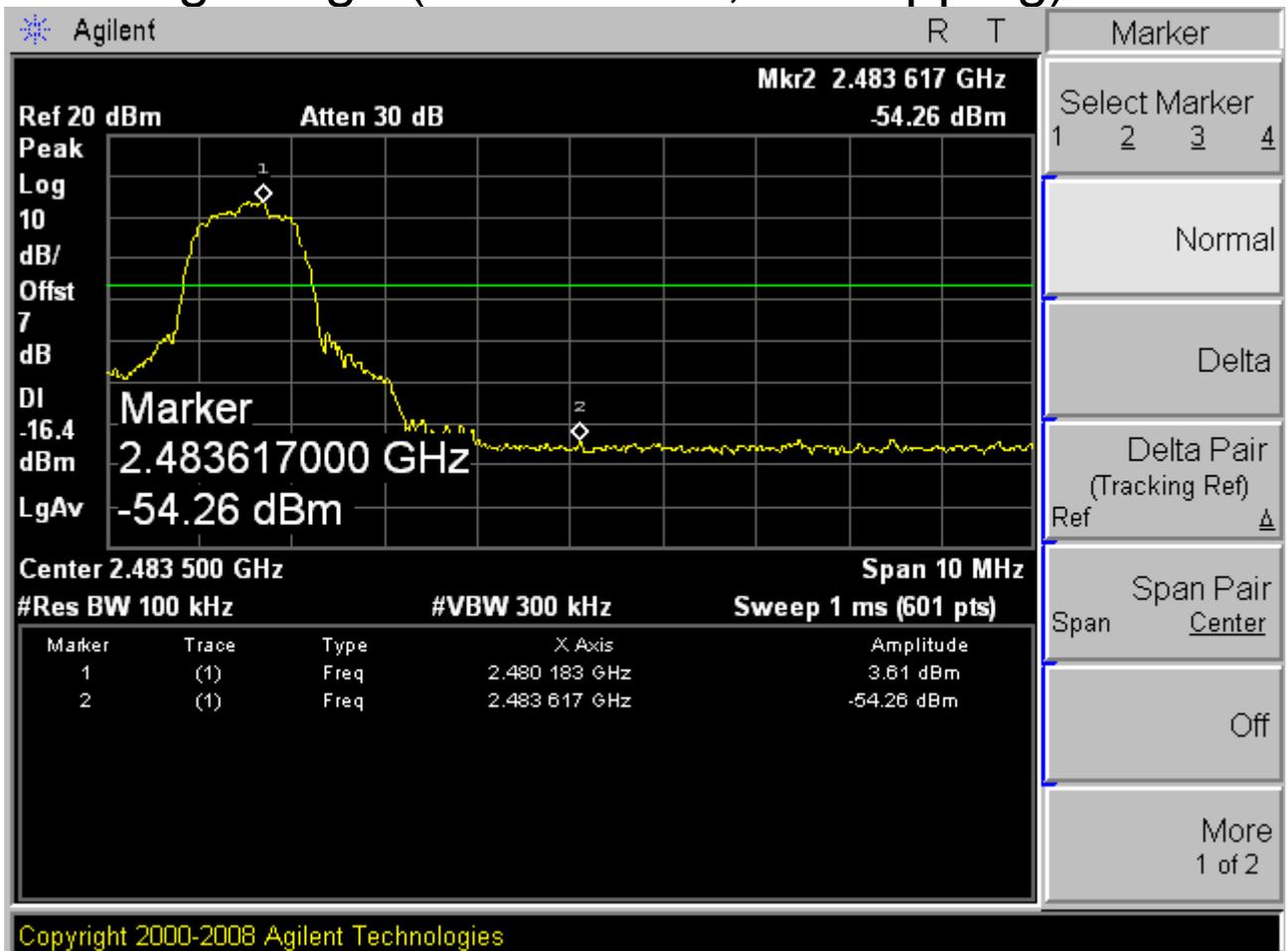


## Low edge (with hopping)



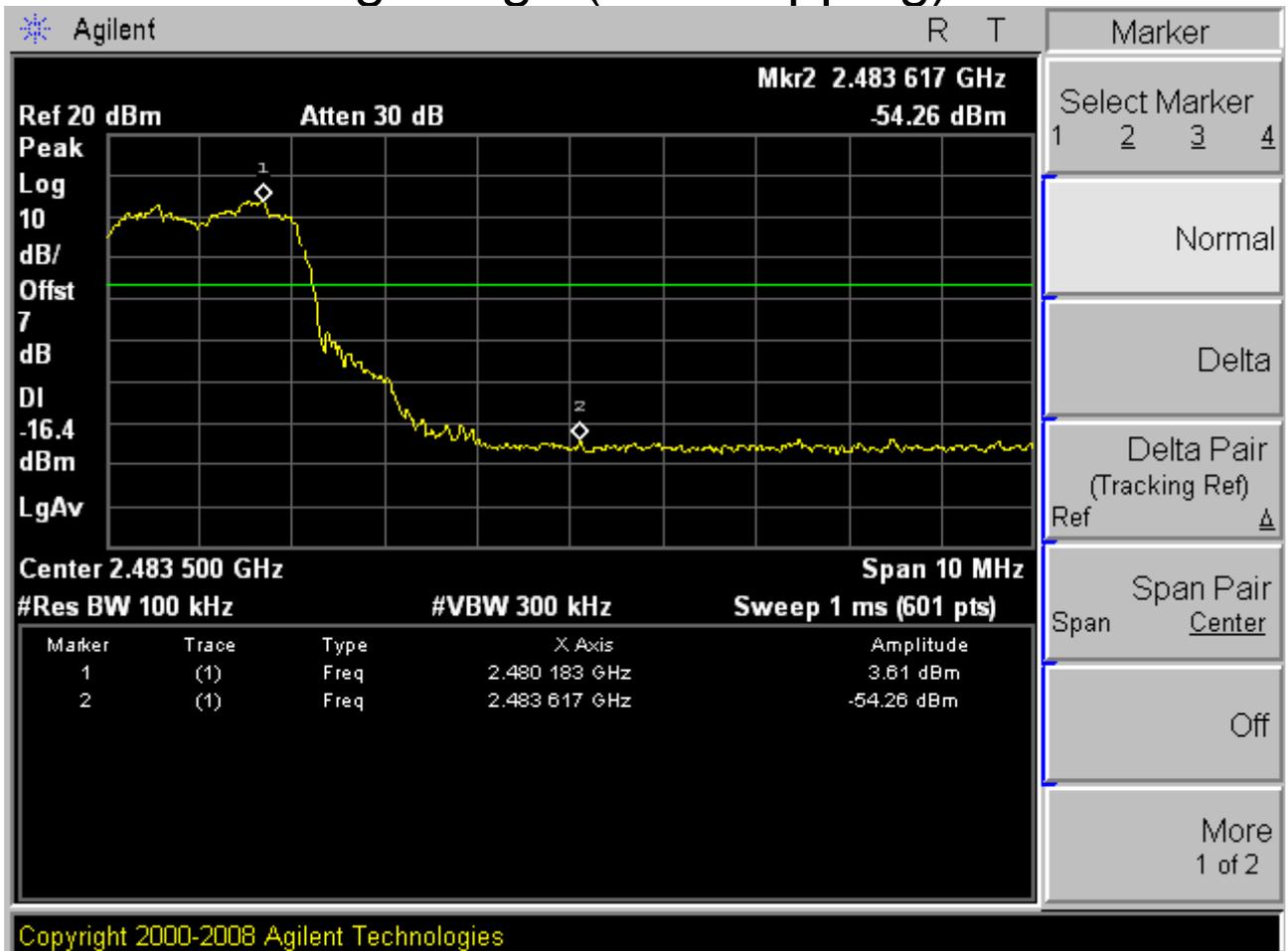


## High edge (Channel 78, no hopping)





## High edge (with hopping)





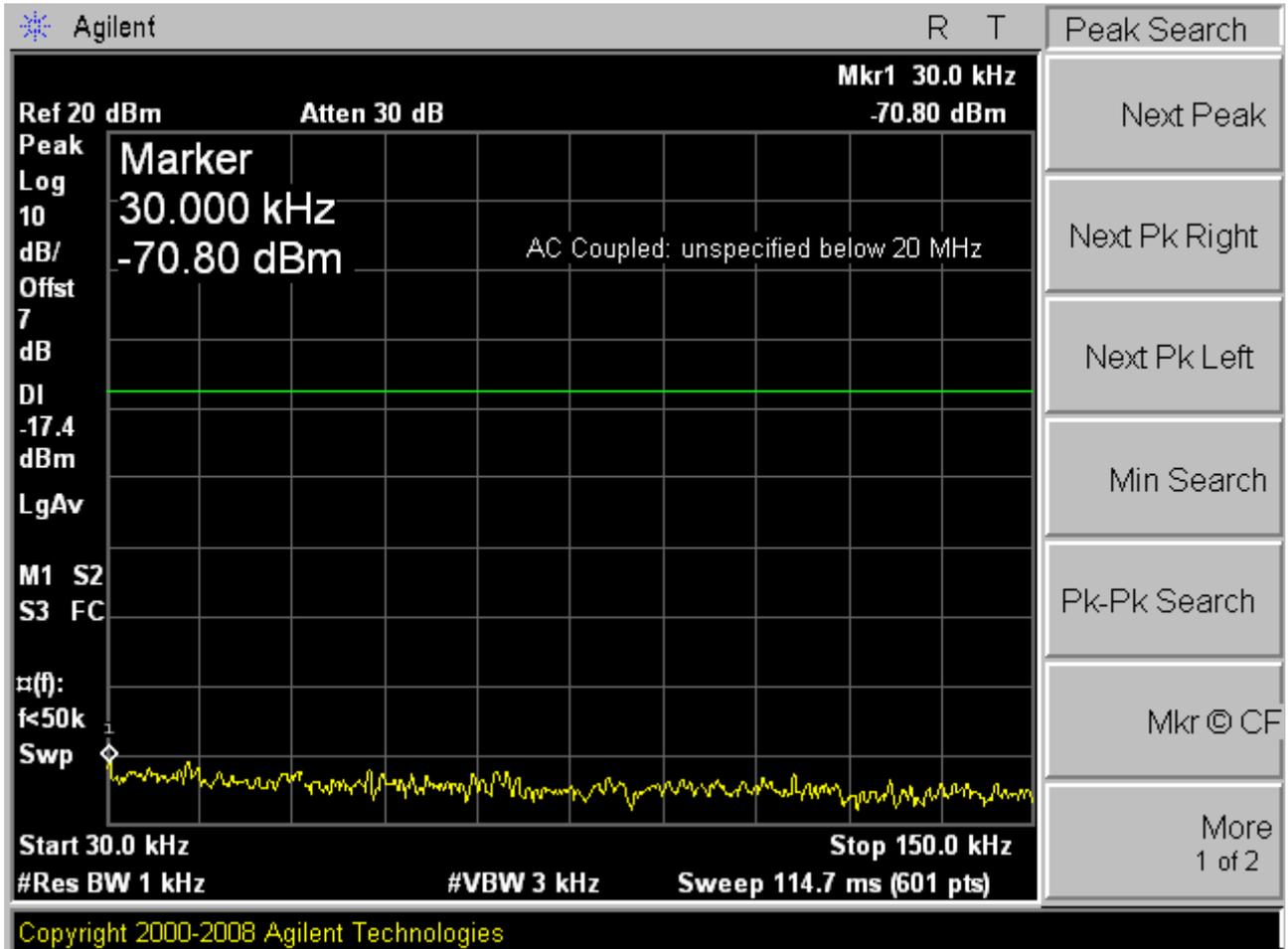
# Appendix G

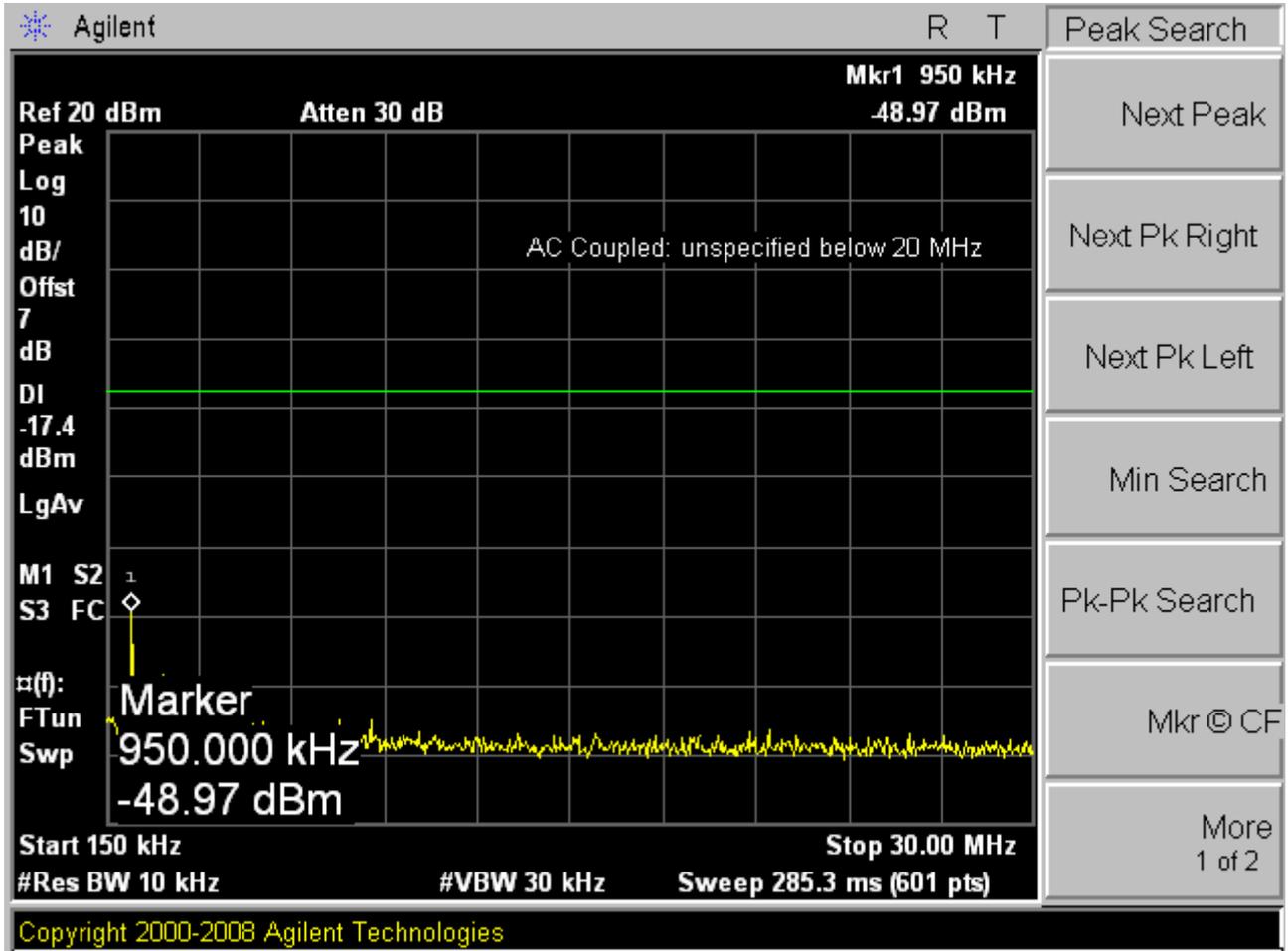
## Conducted RF spurious

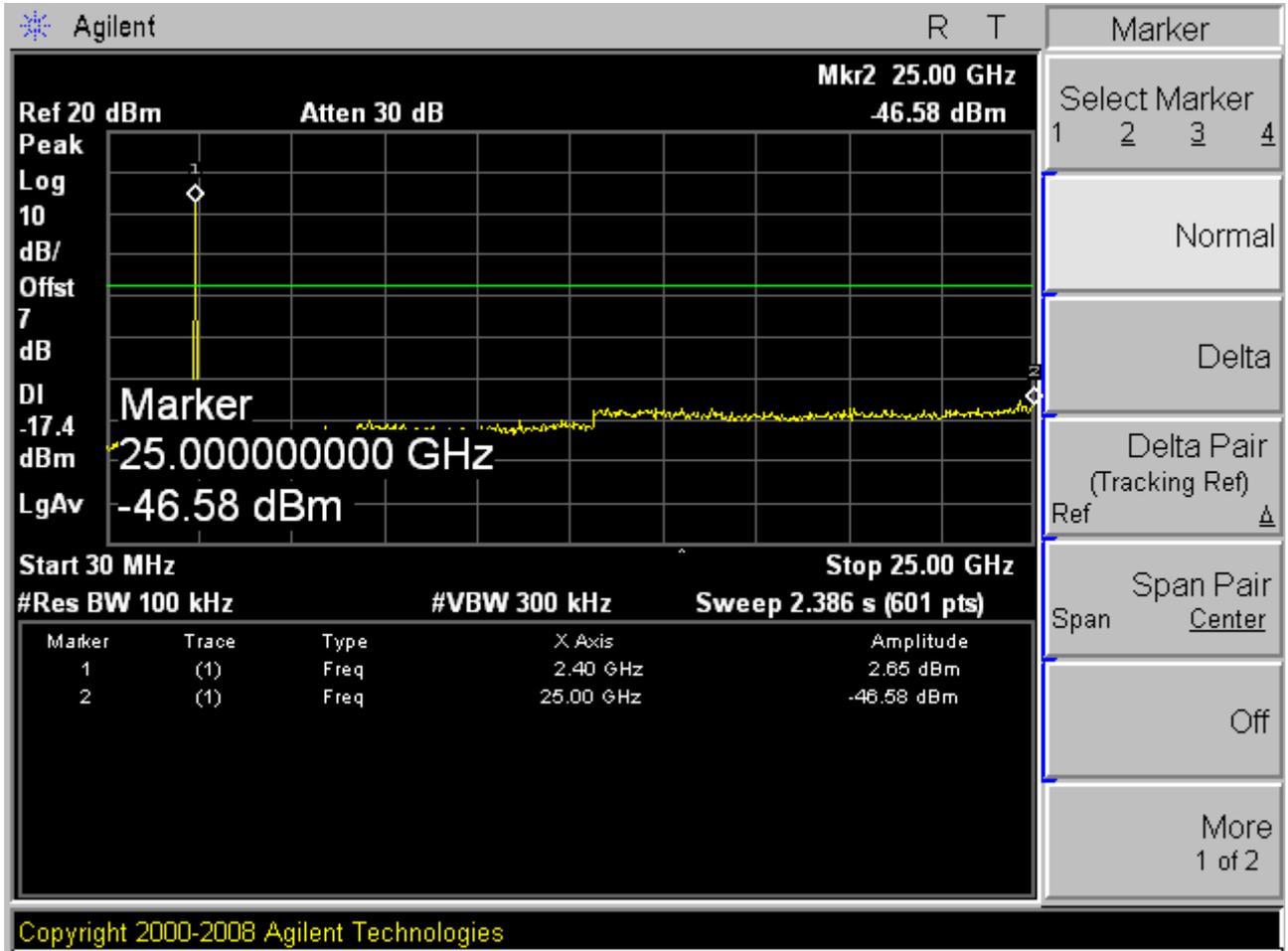
According to FCC Part 15.247 (d)



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

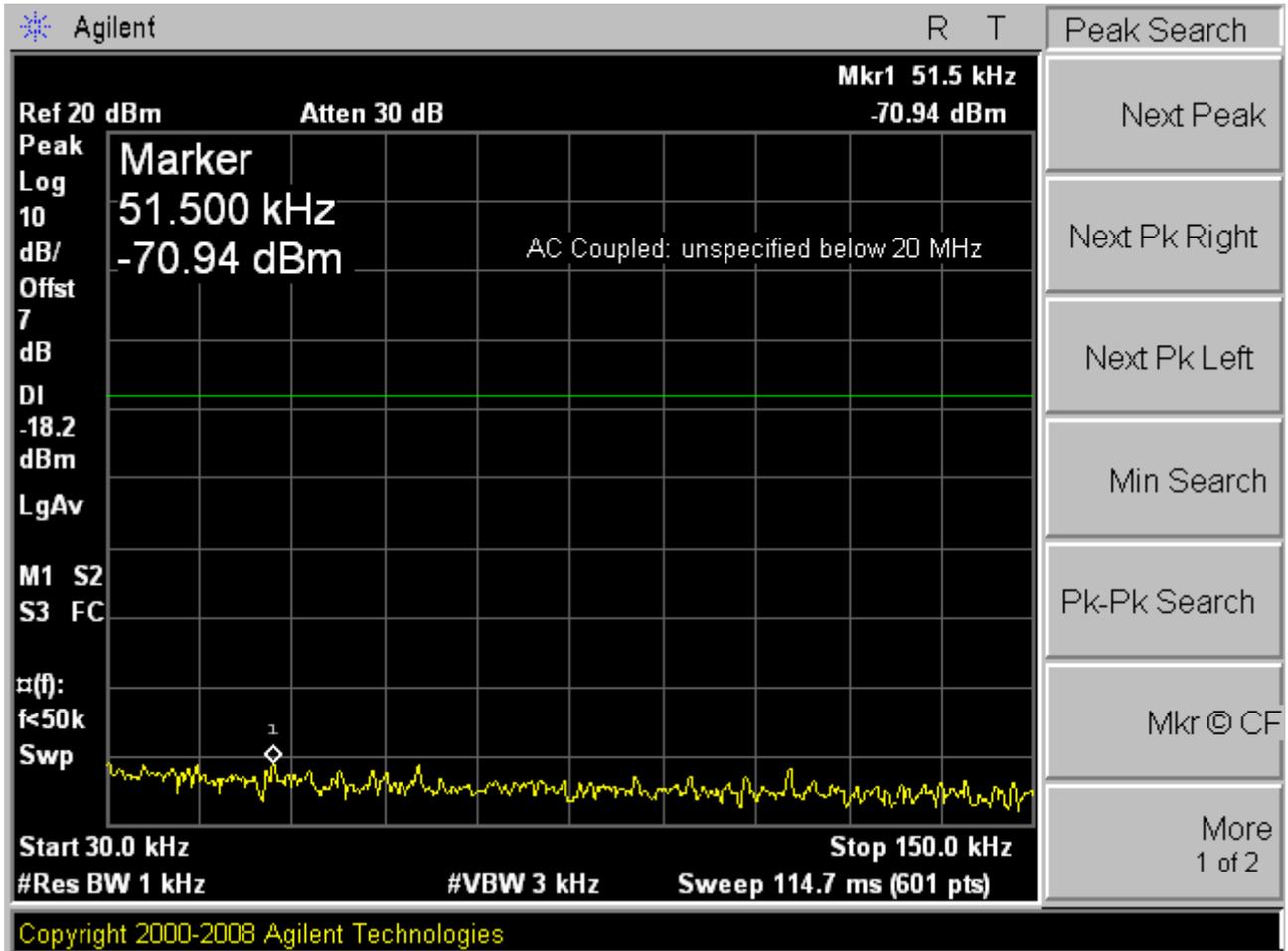


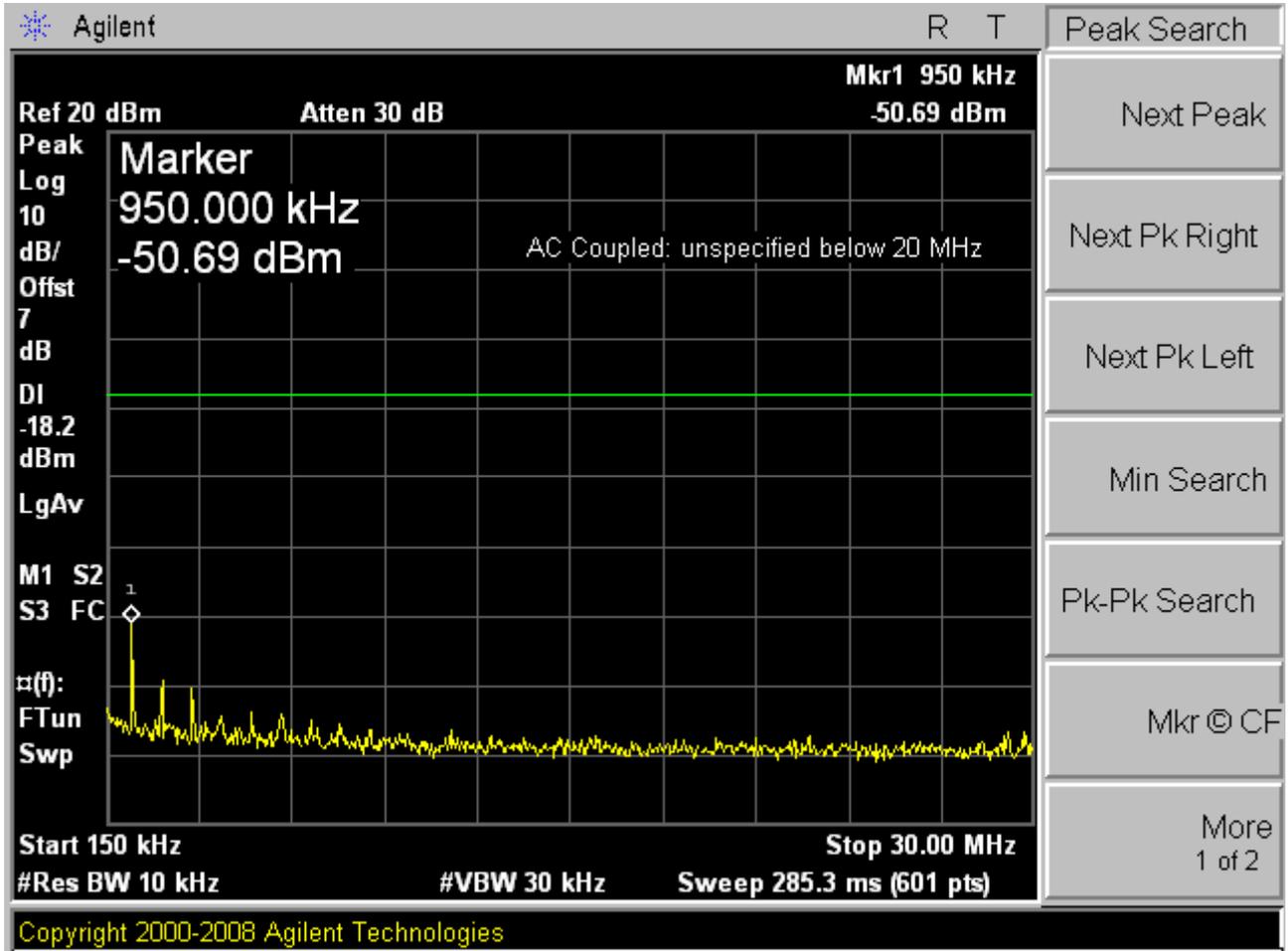


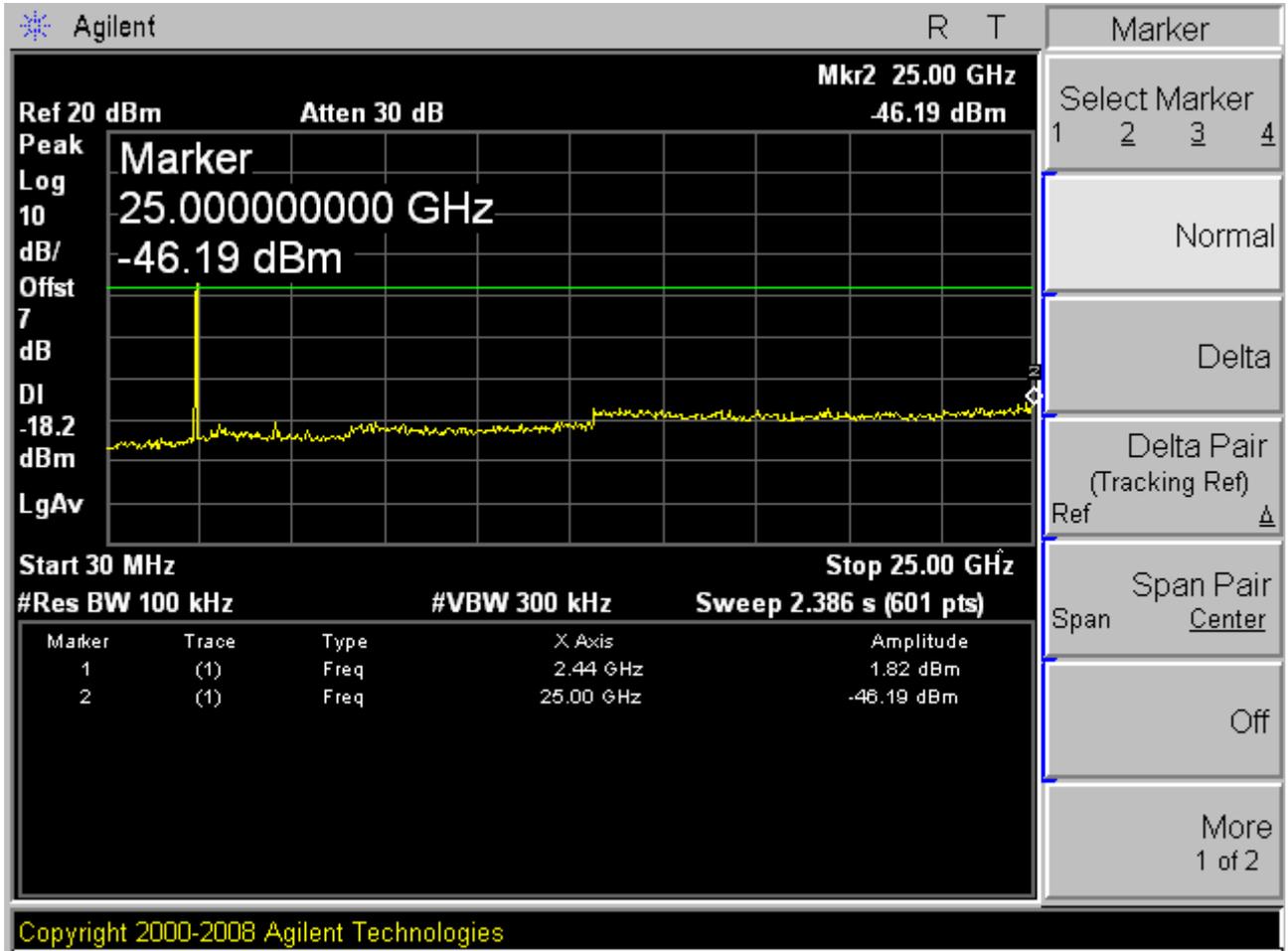




# Channel 40

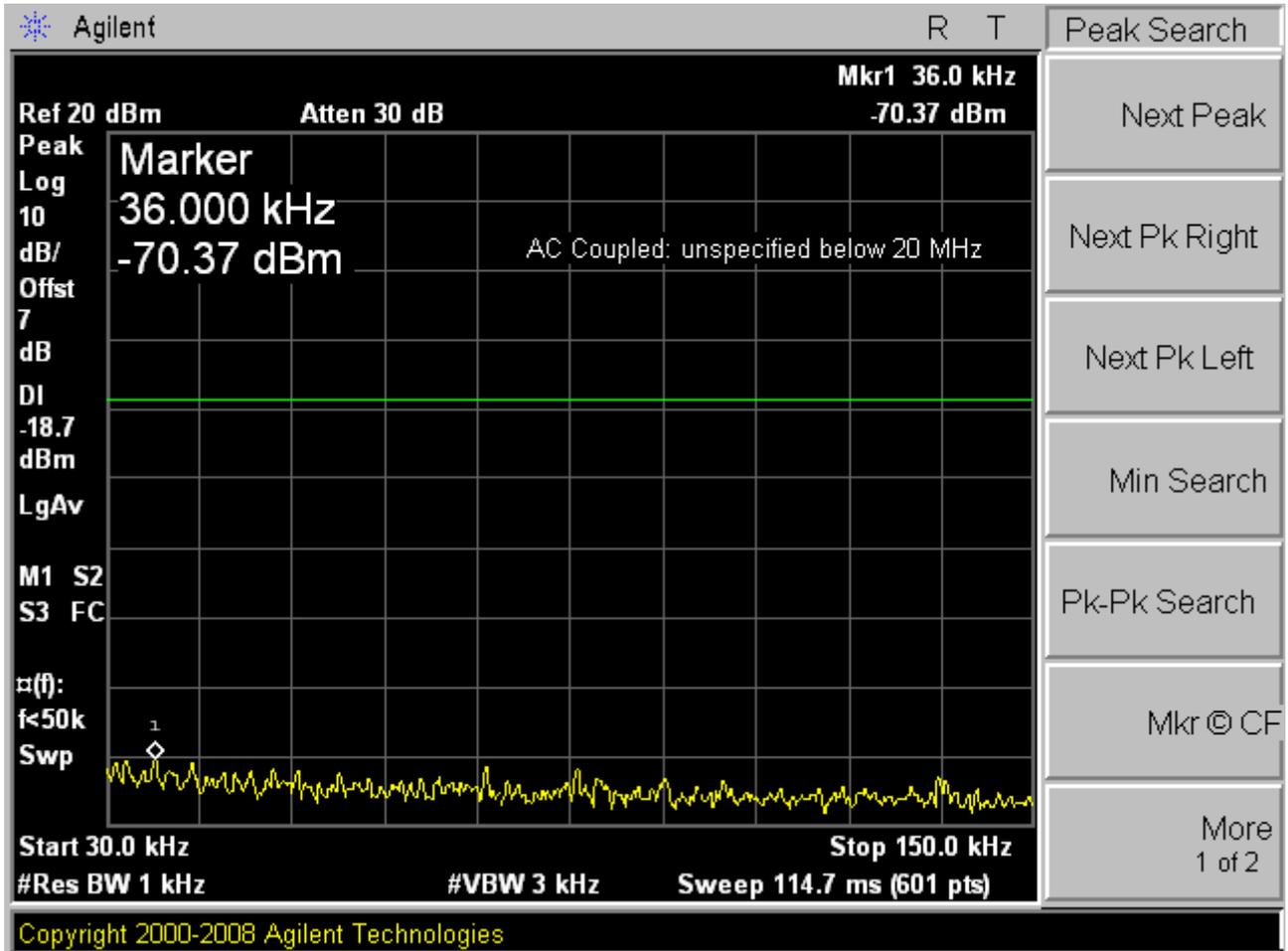


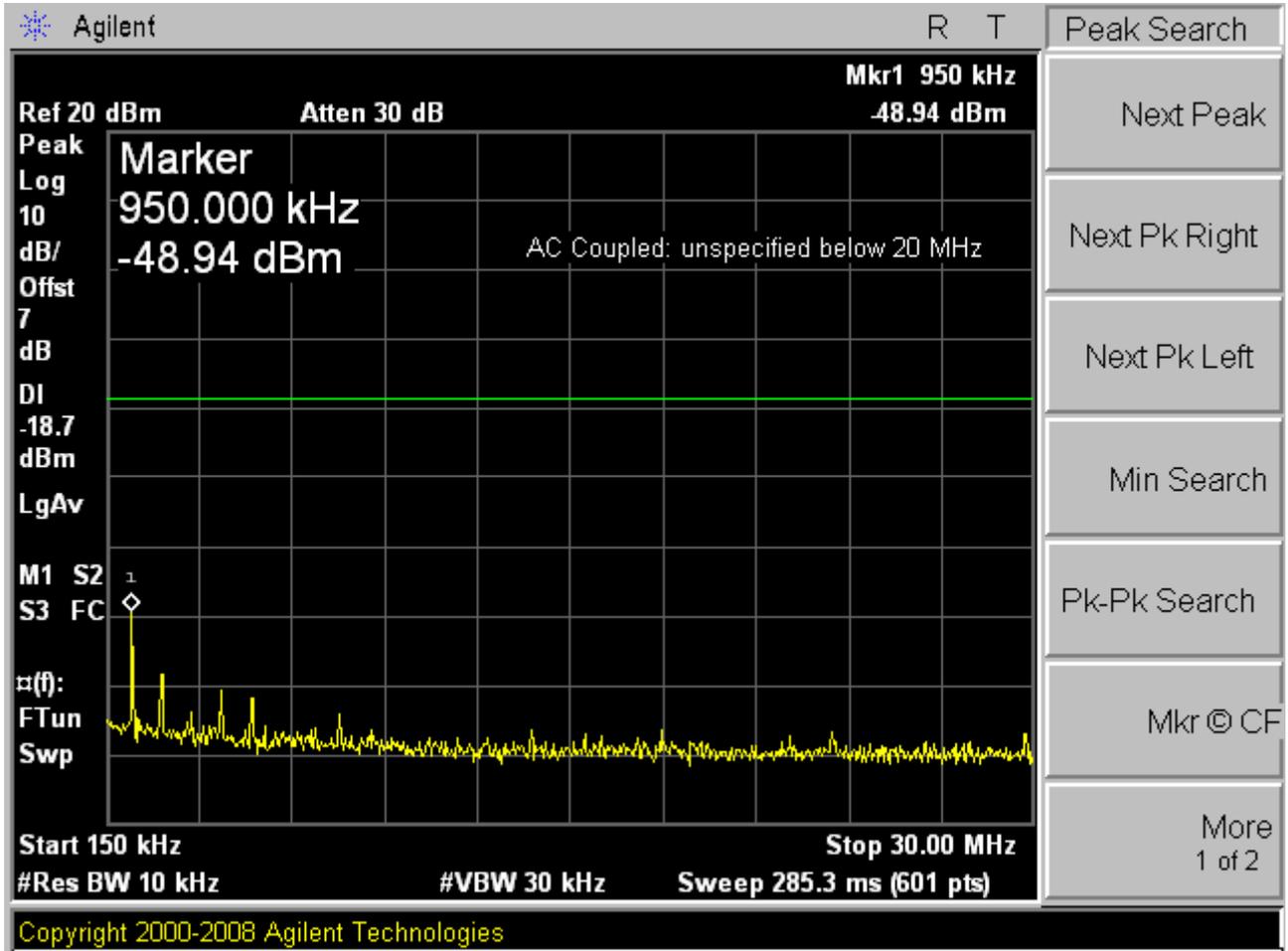


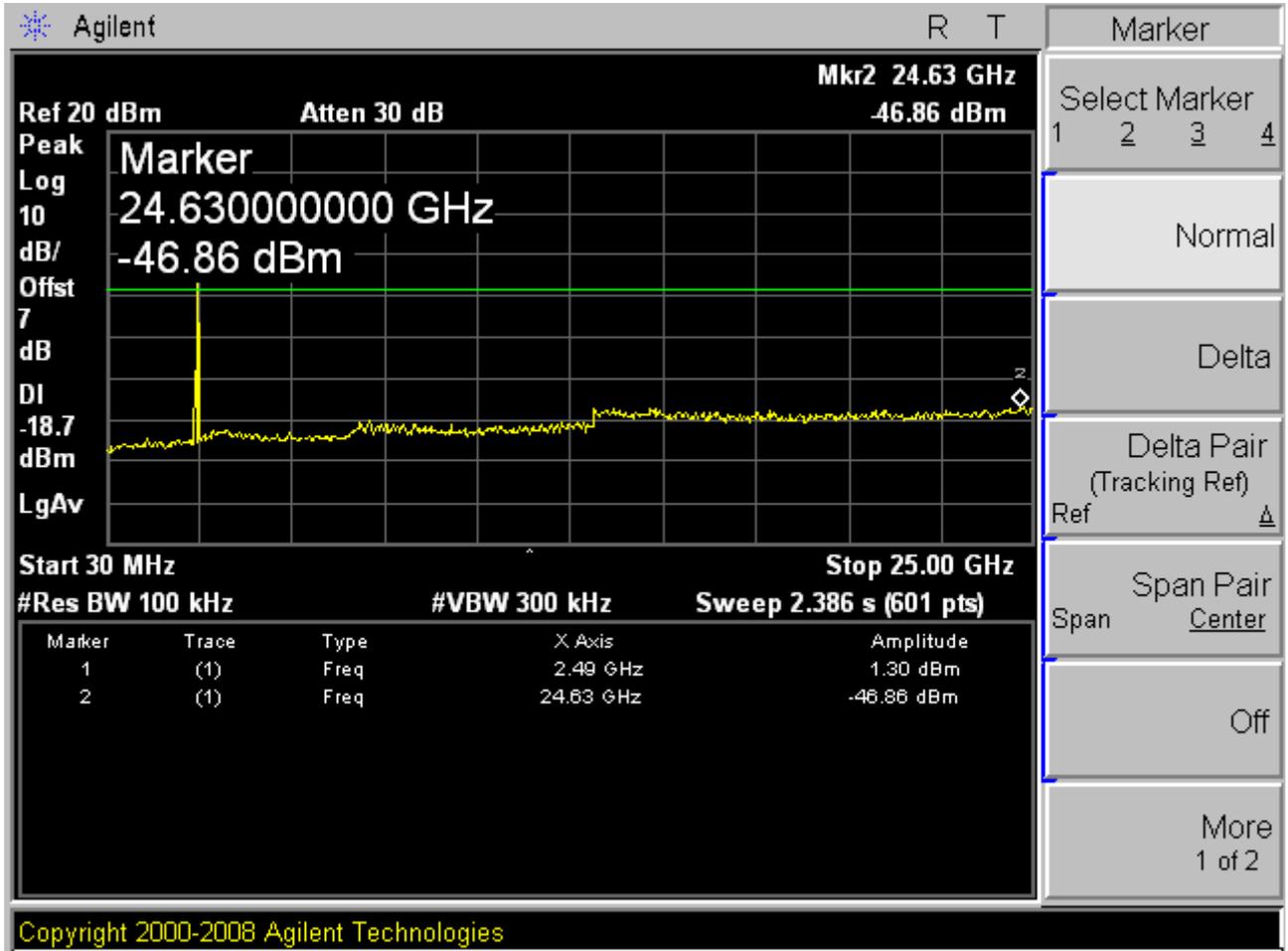




# Channel 78

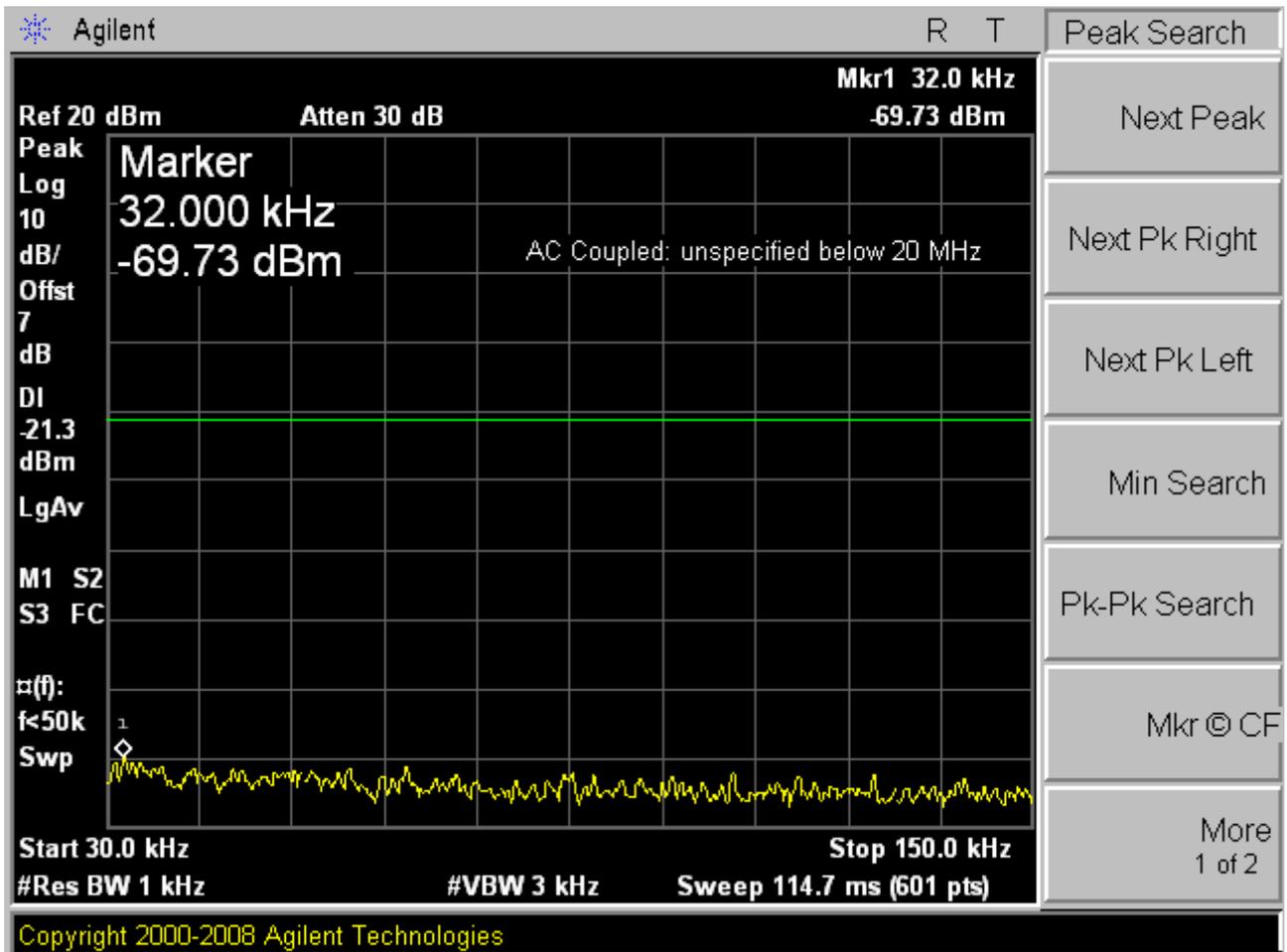


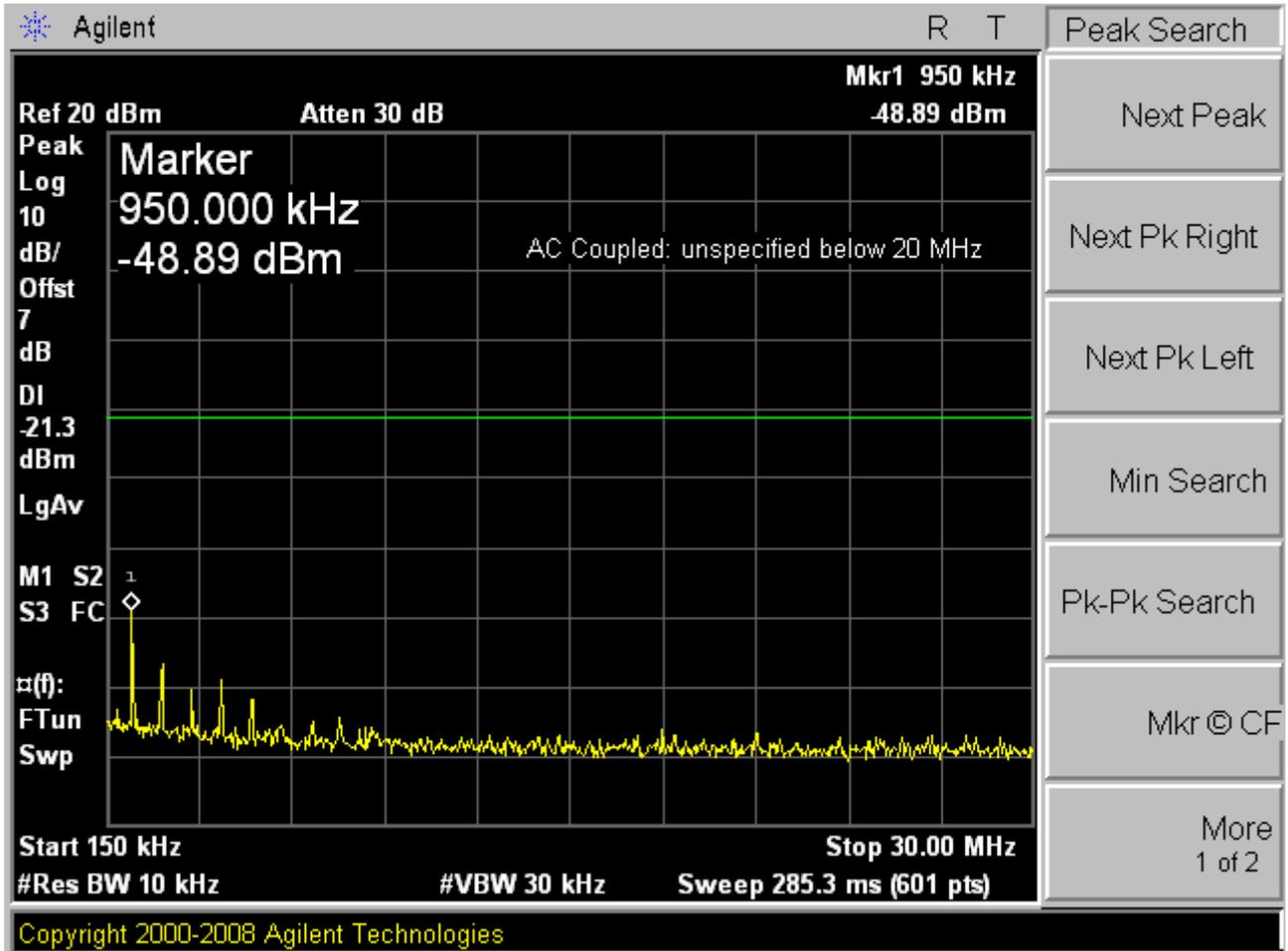


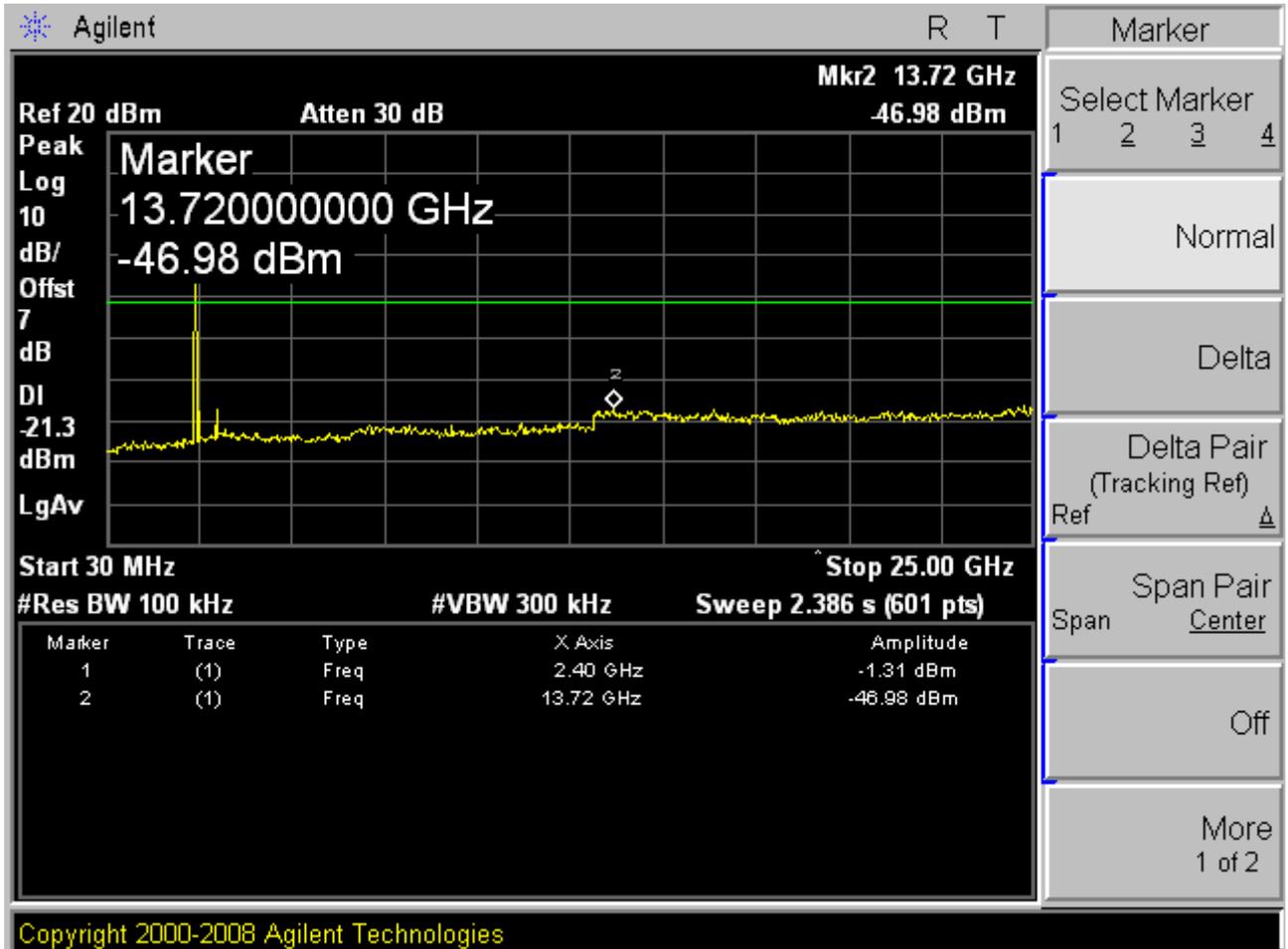




# (Modulation: 8DPSK) Channel 0

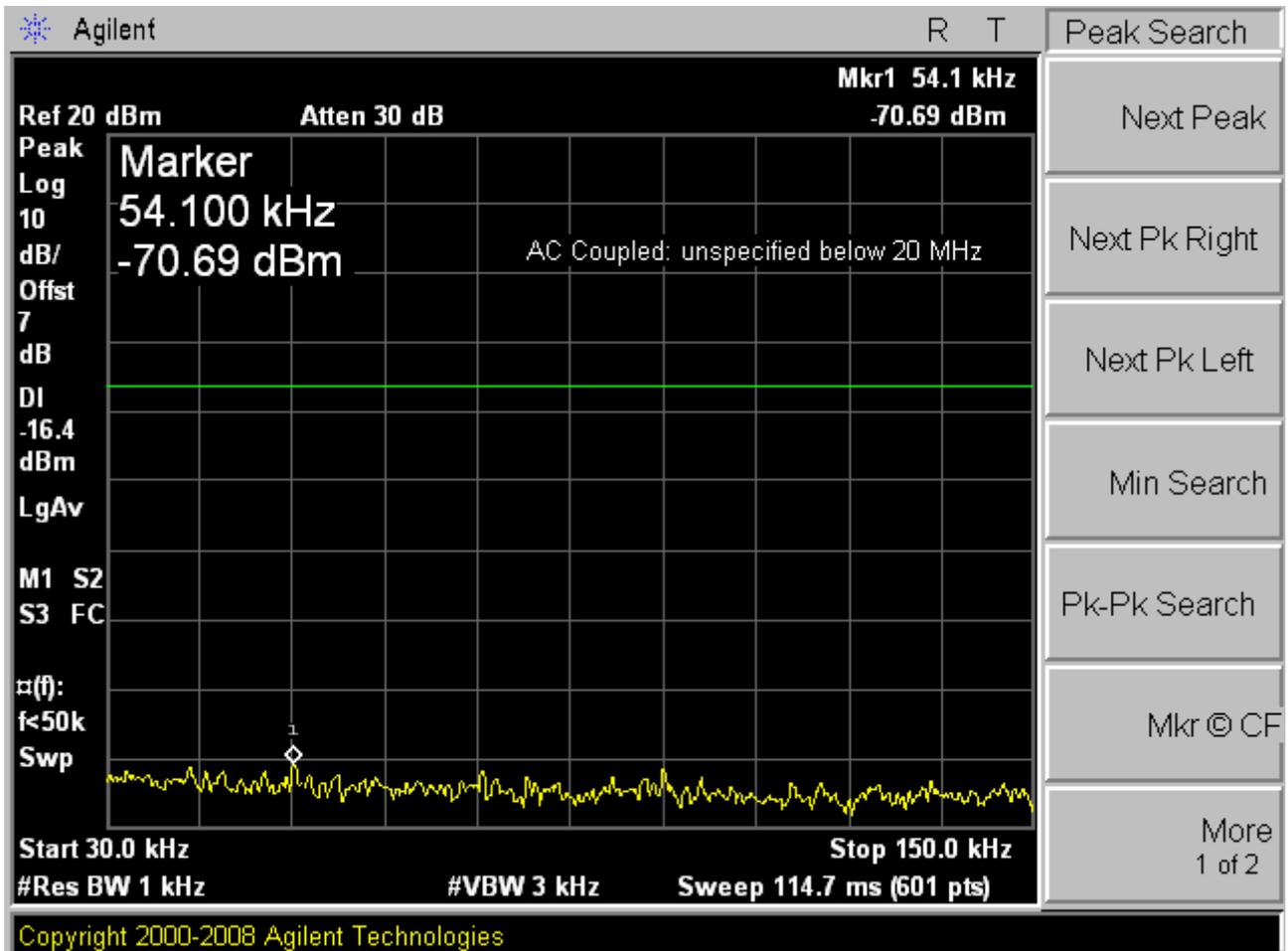


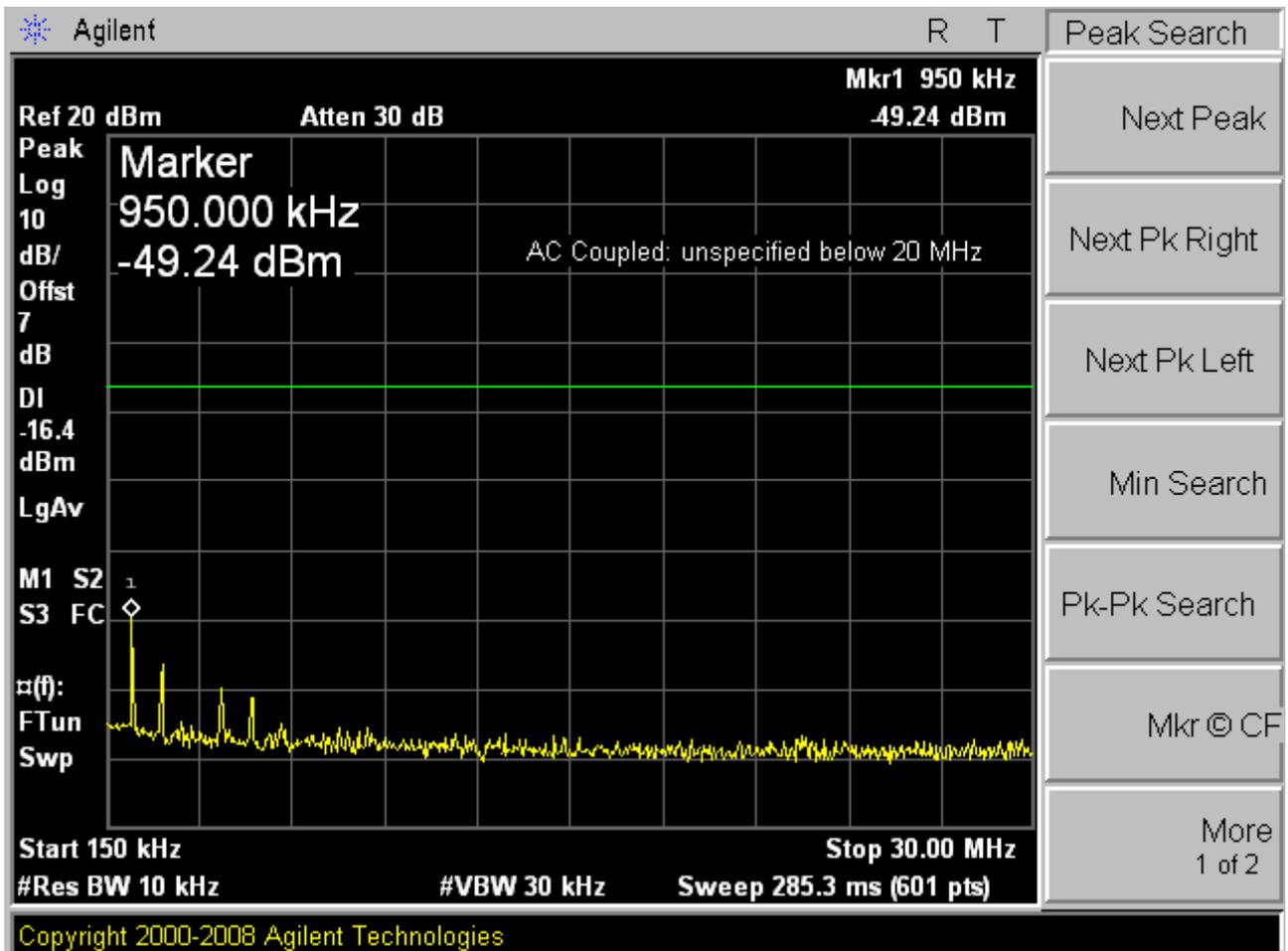


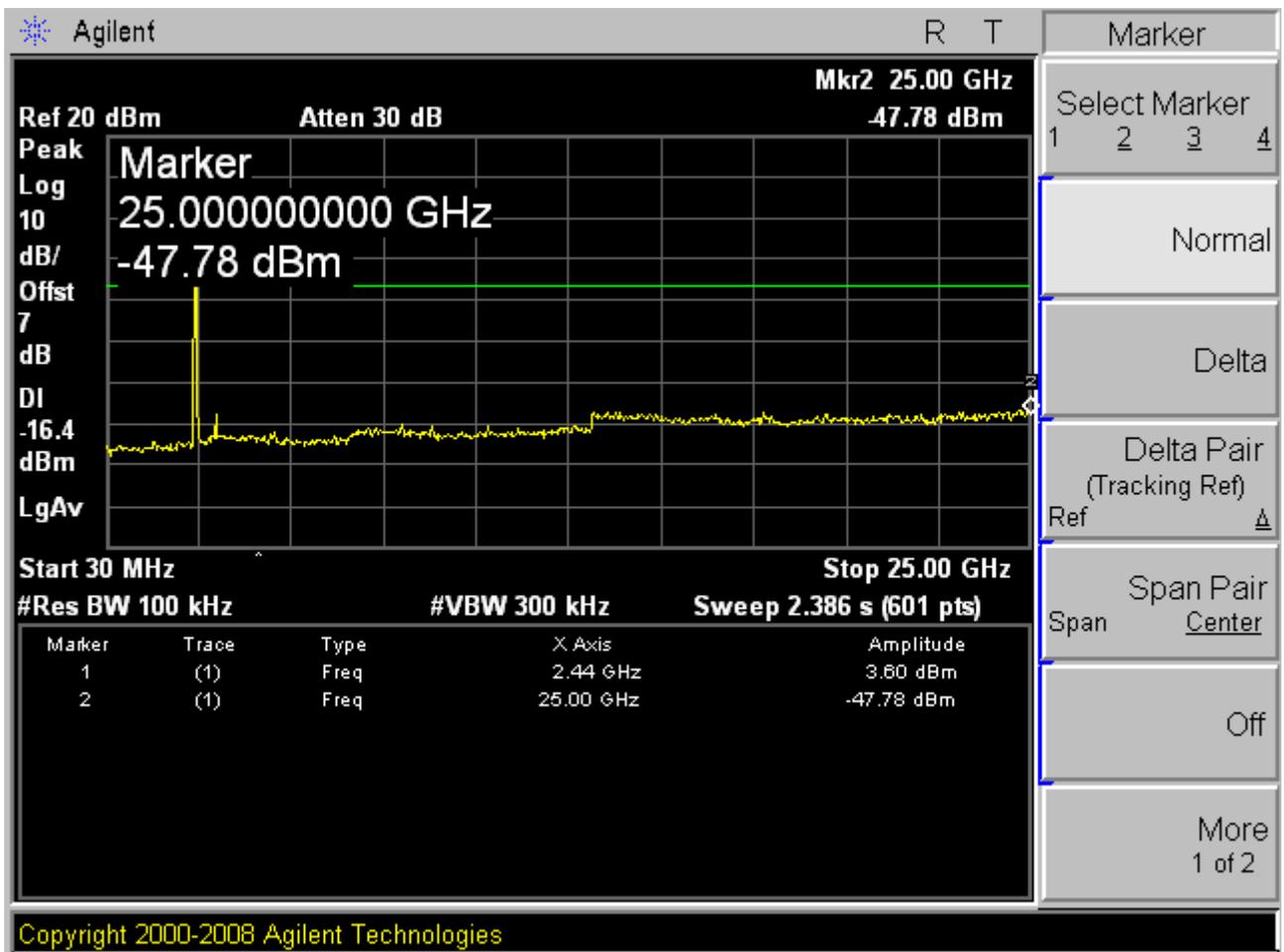




# Channel 40

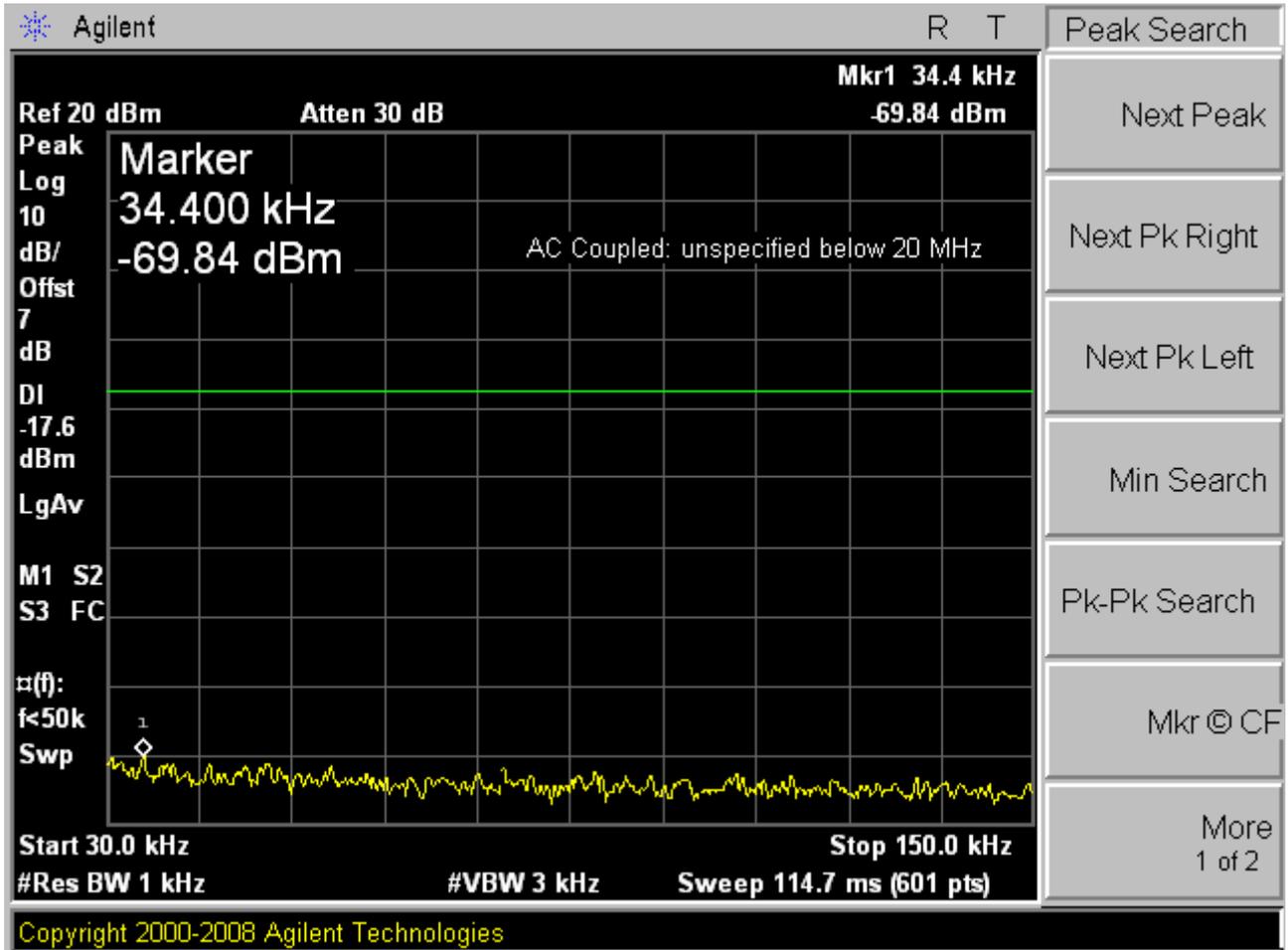


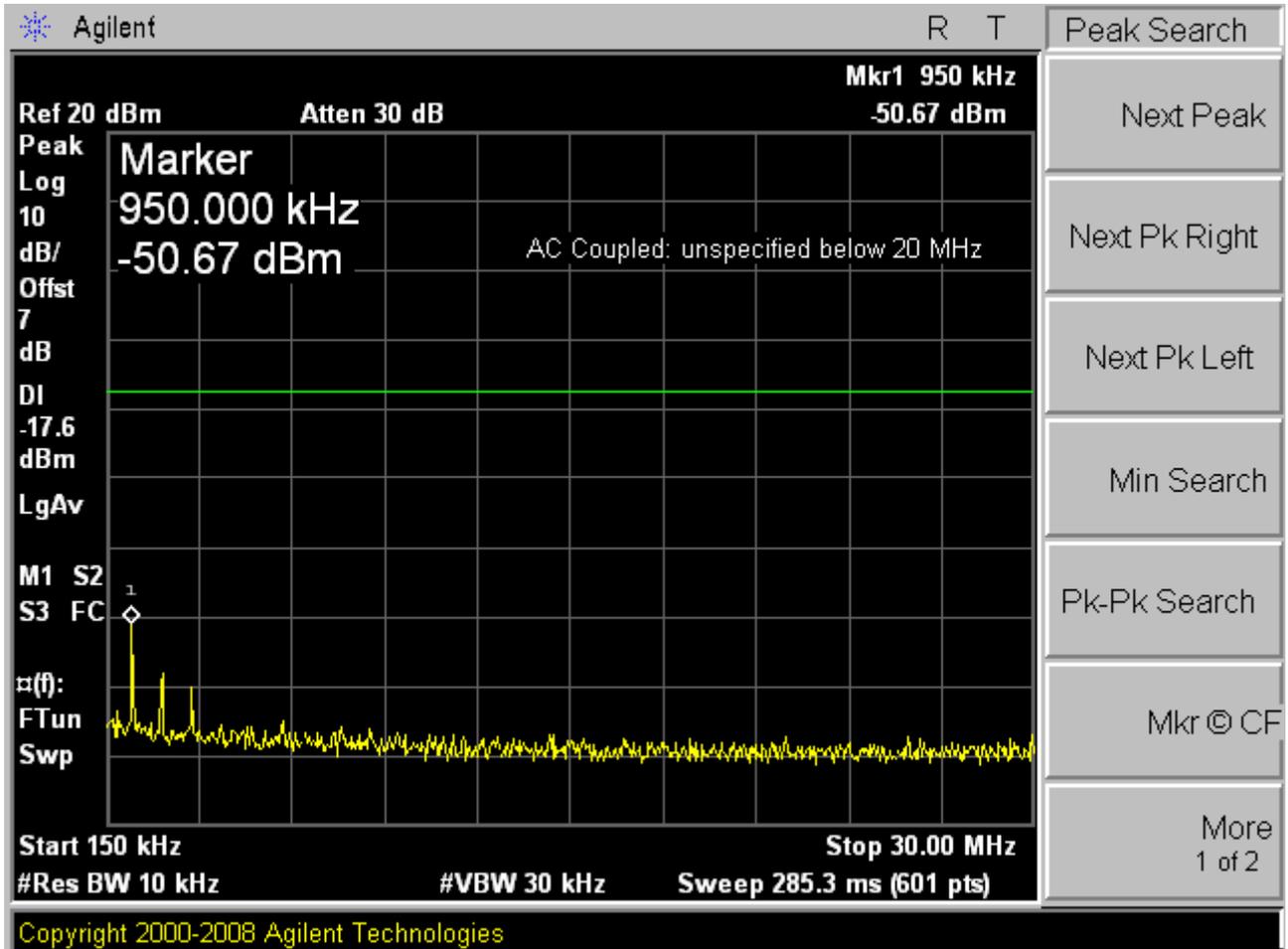


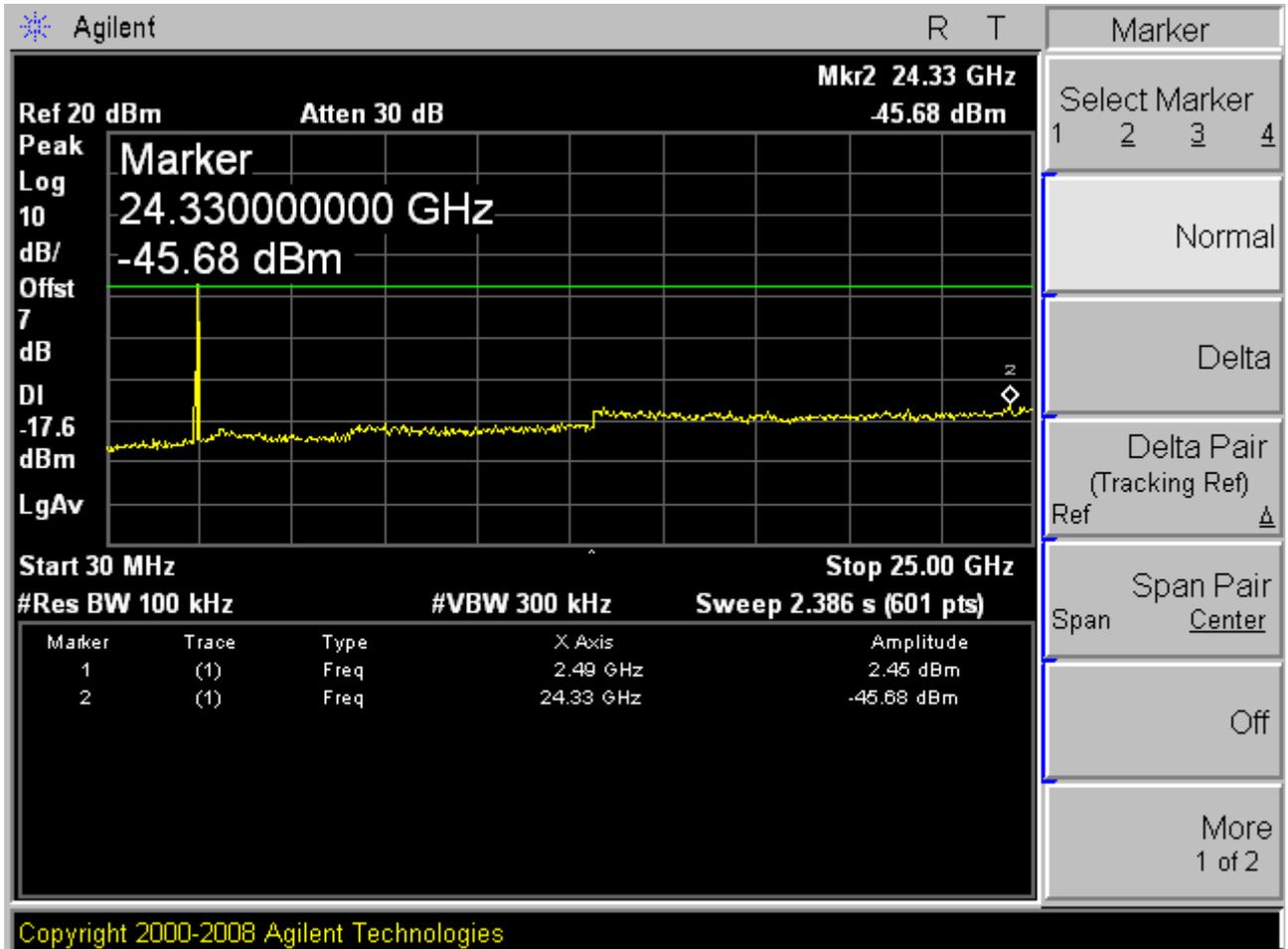




# Channel 78









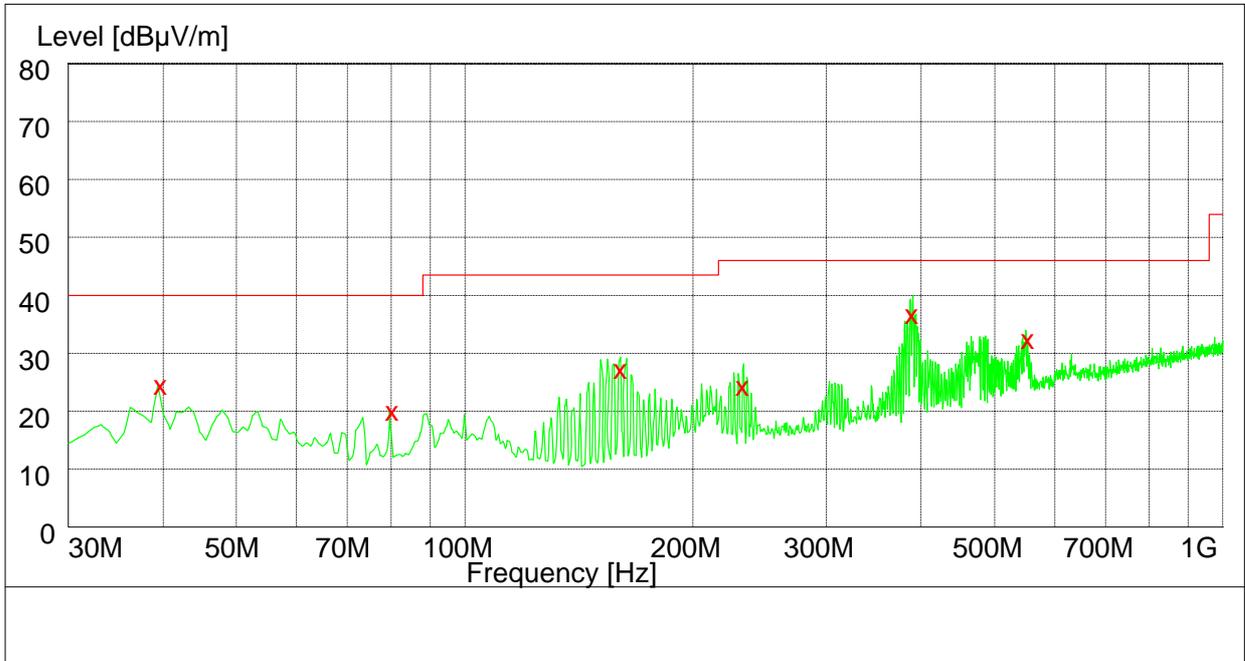
# Appendix H

## Radiated spurious emission

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



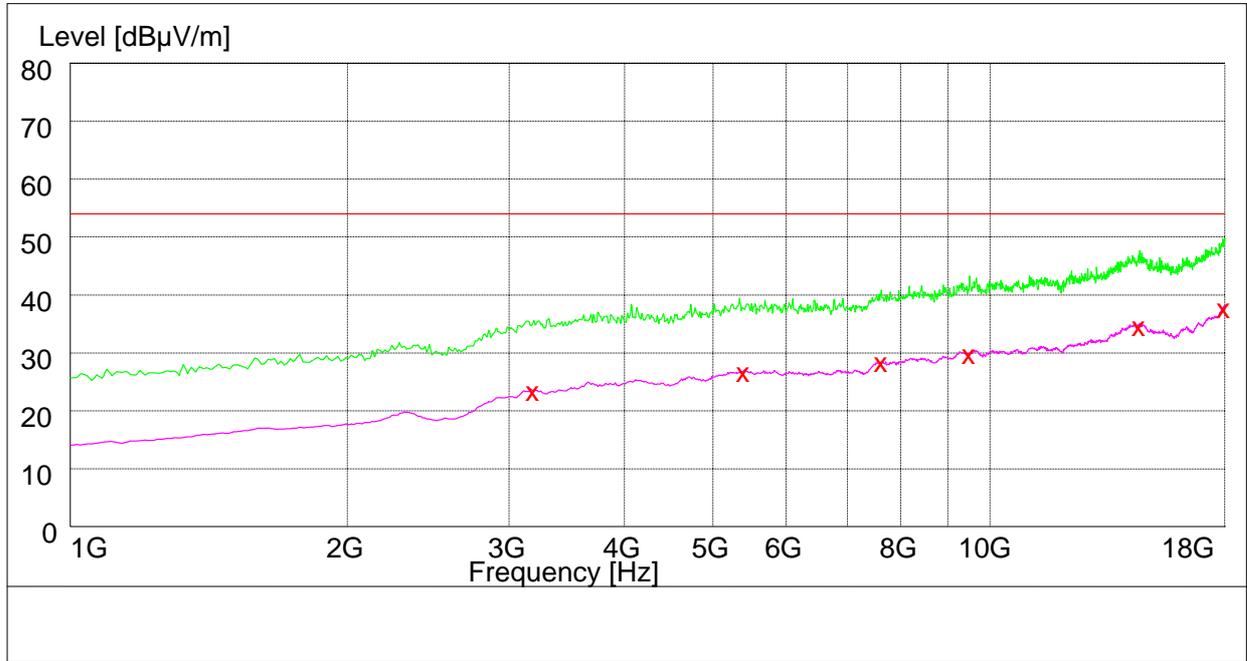
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
39.600000	25.40	11.9	40.0	14.6	298.0	161.00	HORIZONTAL
80.500000	20.00	8.2	40.0	20.0	117.0	283.00	HORIZONTAL
162.340000	28.10	9.6	43.5	15.4	219.0	313.00	VERTICAL
234.900000	23.60	13.7	46.0	22.4	122.0	330.00	HORIZONTAL
389.220000	38.20	17.9	46.0	7.8	154.0	44.00	HORIZONTAL
545.150000	32.50	21.2	46.0	13.5	175.0	159.00	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
3192.000000	22.90	-8.4	54.0	31.1	128.0	221.00	VERTICAL
5412.500000	26.70	-2.4	54.0	27.3	171.0	253.00	VERTICAL
7636.000000	28.20	1.7	54.0	25.8	162.0	37.00	HORIZONTAL
9485.000000	29.80	4.9	54.0	24.2	171.0	75.00	HORIZONTAL
14585.000000	34.20	12.3	54.0	19.8	171.0	327.00	HORIZONTAL
17989.000000	37.70	17.2	54.0	16.3	166.0	84.00	VERTICAL



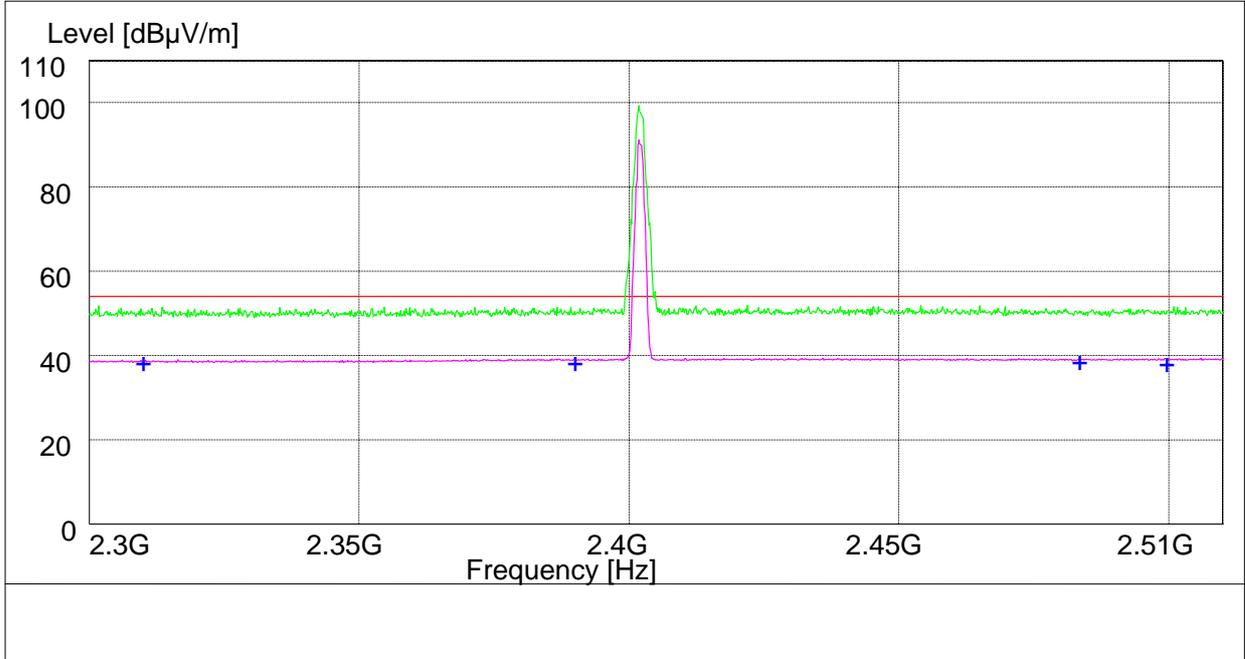
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz

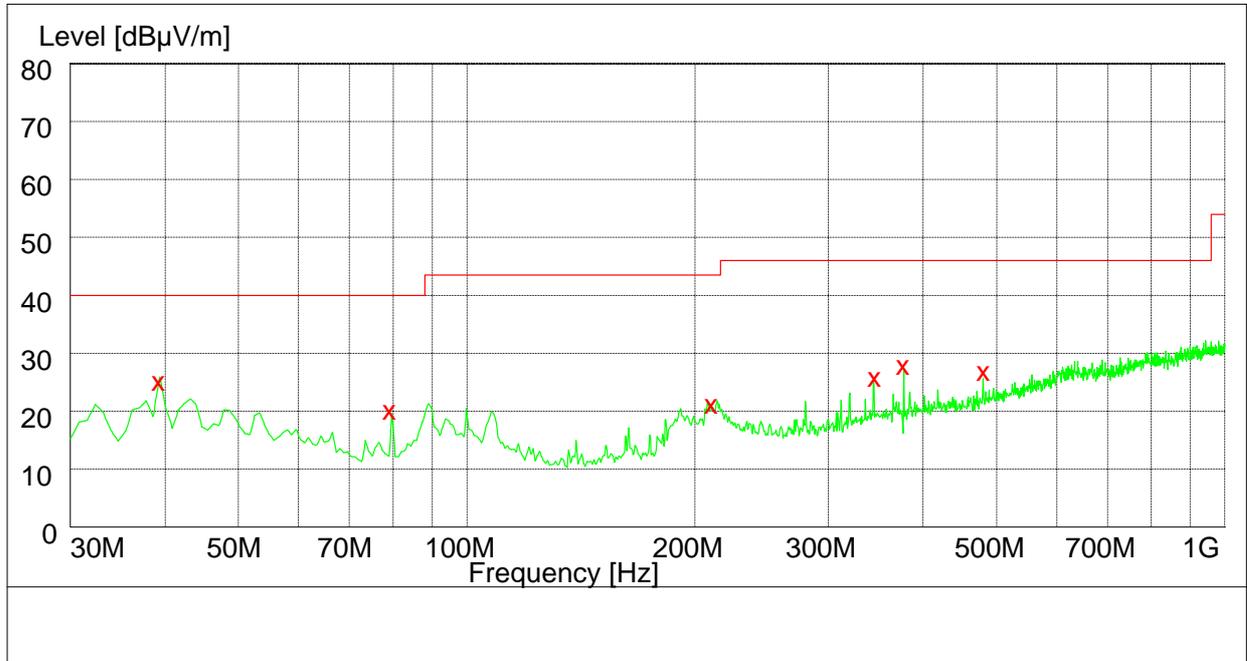


Note: The highest peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.00	33.3	54.0	16.0	137.0	50.00	VERTICAL
2390.000000	38.10	33.5	54.0	15.9	136.0	239.00	VERTICAL
2483.500000	38.20	33.7	54.0	15.8	168.0	267.00	HORIZONTAL
2500.000000	37.90	33.8	54.0	16.1	107.0	296.00	HORIZONTAL



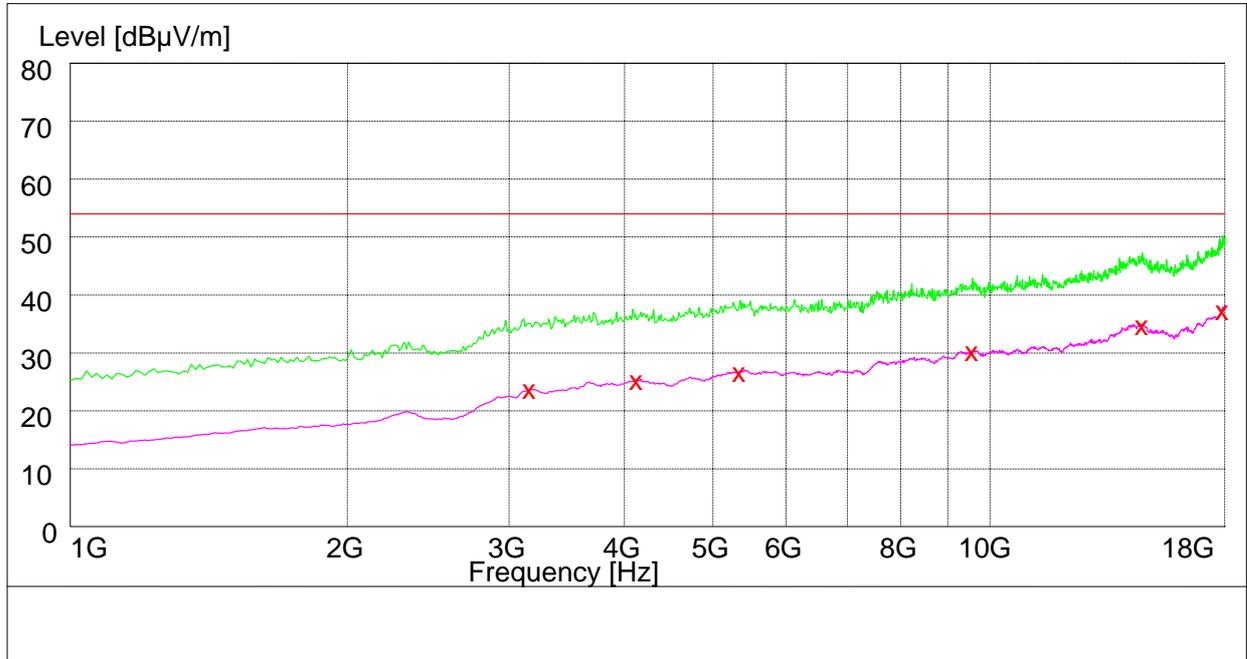
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
39.600000	25.20	11.9	40.0	14.8	207.0	321.00	VERTICAL
79.850000	19.80	8.1	40.0	20.2	147.0	144.00	VERTICAL
210.500000	20.20	12.7	43.5	23.3	171.0	335.00	HORIZONTAL
345.600000	27.20	17.0	46.0	18.8	218.0	290.00	VERTICAL
376.860000	29.20	17.6	46.0	16.8	119.0	135.00	HORIZONTAL
485.420000	27.80	18.4	46.0	18.2	158.0	88.00	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
3195.500000	23.40	-8.5	54.0	30.6	141.0	227.00	HORIZONTAL
4137.500000	25.00	-5.7	54.0	29.0	175.0	82.00	VERTICAL
5362.000000	26.50	-2.4	54.0	27.5	148.0	142.00	HORIZONTAL
9578.000000	30.10	5.1	54.0	23.9	153.0	173.00	HORIZONTAL
14623.000000	34.40	11.9	54.0	19.6	160.0	130.00	VERTICAL
17985.000000	37.50	16.8	54.0	16.5	190.0	330.00	HORIZONTAL



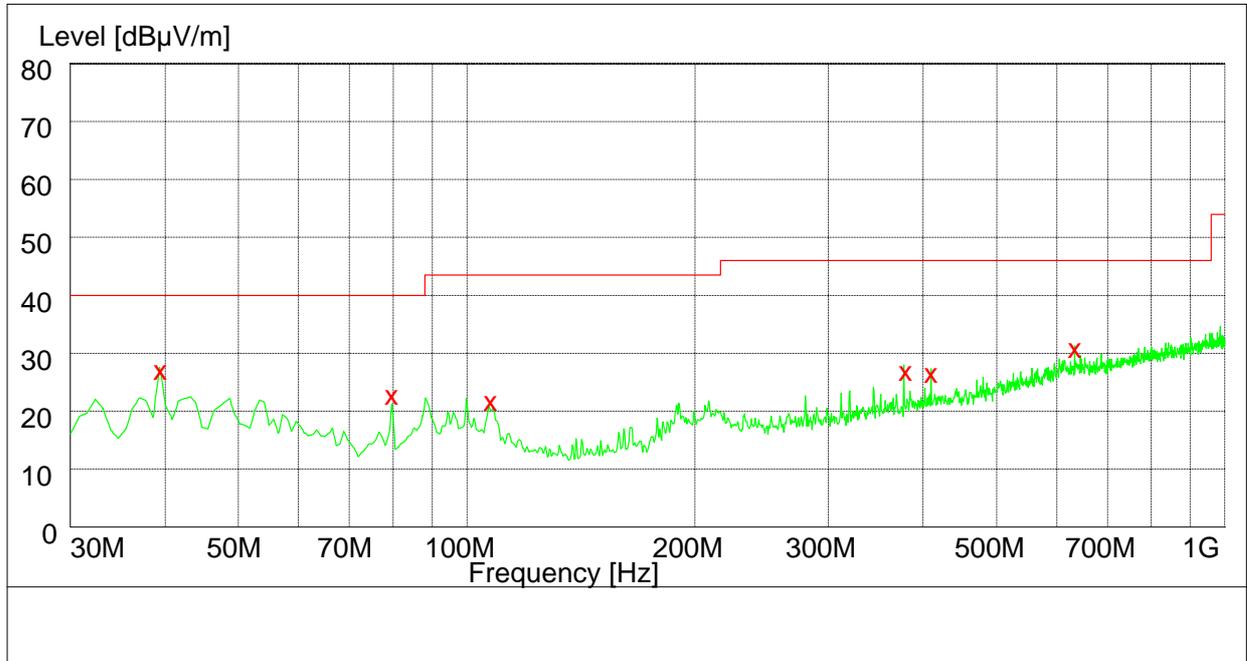
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# 18GHz to 26GHz

Note: No peak found in pre- test.



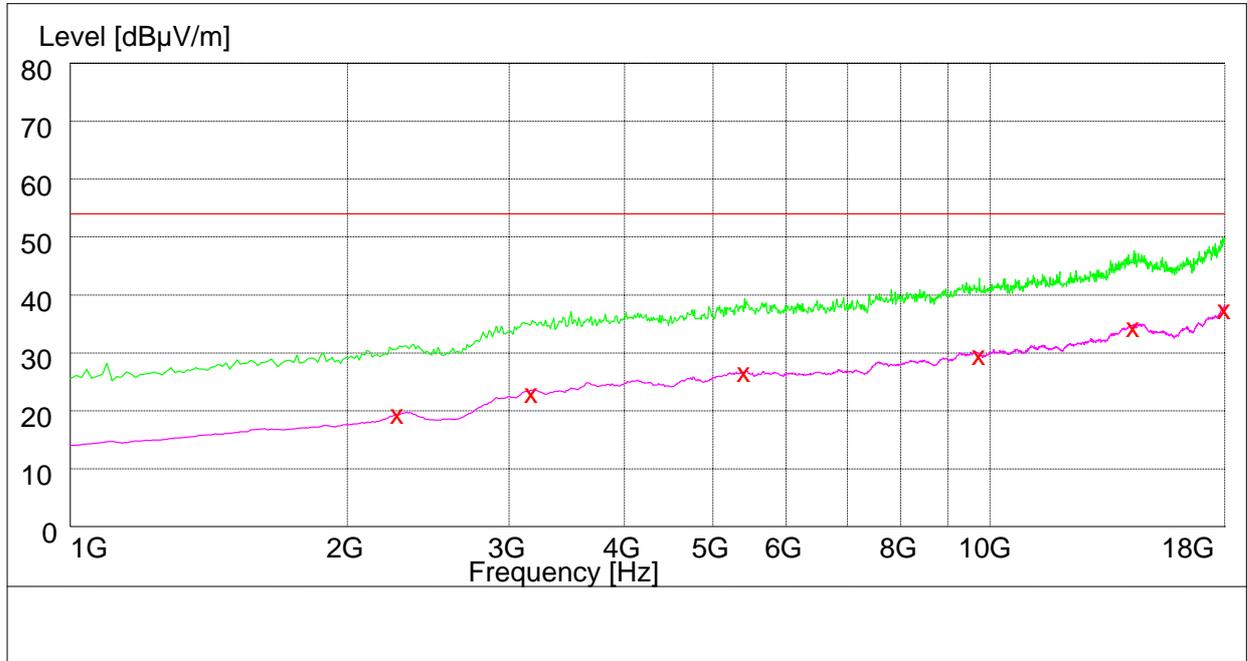
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
39.620000	26.60	12.2	40.0	13.4	112.0	264.00	HORIZONTAL
79.700000	22.40	8.3	40.0	17.6	117.0	207.00	HORIZONTAL
108.650000	20.80	13.1	43.5	22.7	116.0	112.00	VERTICAL
380.140000	28.30	17.6	46.0	17.7	258.0	324.00	HORIZONTAL
410.300000	28.00	18.2	46.0	18.0	166.0	66.00	HORIZONTAL
636.400000	30.40	22.7	46.0	15.6	150.0	60.00	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
2263.000000	19.20	-11.6	54.0	34.8	192.0	224.00	HORIZONTAL
3185.000000	22.80	-8.4	54.0	31.2	169.0	205.00	HORIZONTAL
5413.500000	26.50	-2.4	54.0	27.5	175.0	90.00	VERTICAL
9768.500000	29.80	5.1	54.0	24.2	138.0	151.00	HORIZONTAL
14352.000000	33.90	11.9	54.0	20.1	151.0	164.00	VERTICAL
17986.000000	37.40	17.3	54.0	16.6	132.0	140.00	VERTICAL



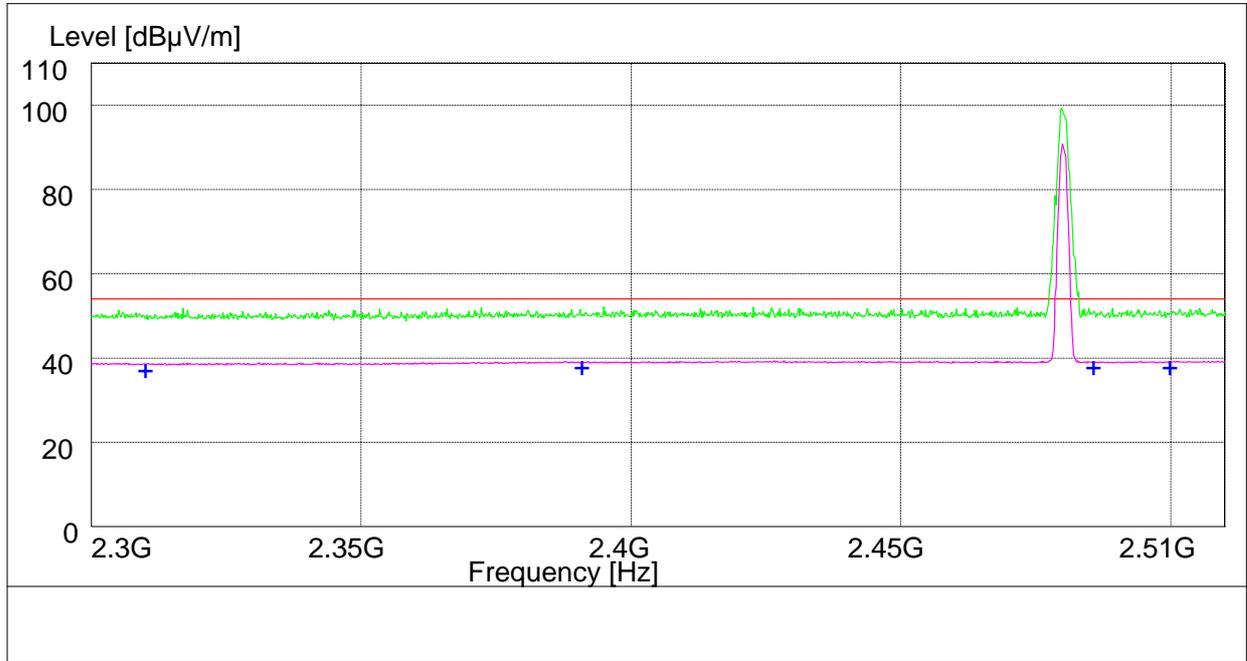
---

## 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	38.00	33.3	54.0	16.0	184.0	206.00	VERTICAL
2390.000000	38.00	33.5	54.0	16.0	199.0	96.00	HORIZONTAL
2483.500000	38.30	33.7	54.0	15.7	134.0	307.00	HORIZONTAL
2500.000000	38.20	33.8	54.0	15.8	154.0	242.00	HORIZONTAL



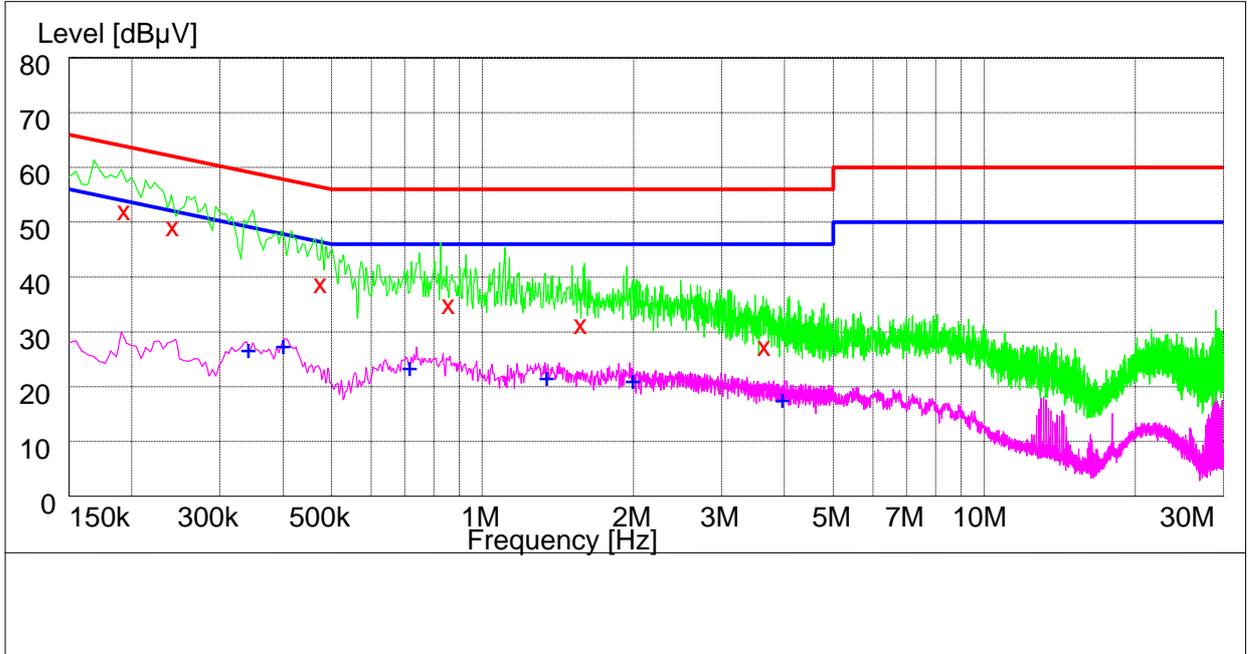
# Appendix I

## 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
0.194000	51.90	10.1	64	12.1	N	FLO
0.242000	49.00	10.0	62	13.0	N	FLO
0.476000	38.70	10.1	56	17.3	N	FLO
0.860000	34.80	10.1	56	21.2	N	FLO
1.576000	31.30	10.1	56	24.7	N	FLO
3.654000	27.30	10.2	56	28.7	N	FLO

### MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.342000	26.70	10.0	49	22.3	N	FLO
0.400000	27.40	10.0	48	20.6	N	FLO
0.716000	23.50	10.1	46	22.5	N	FLO
1.344000	21.60	10.1	46	24.4	N	FLO
1.998000	21.10	10.1	46	24.9	N	FLO
3.964000	17.60	10.2	46	28.4	N	FLO