



# Appendix A

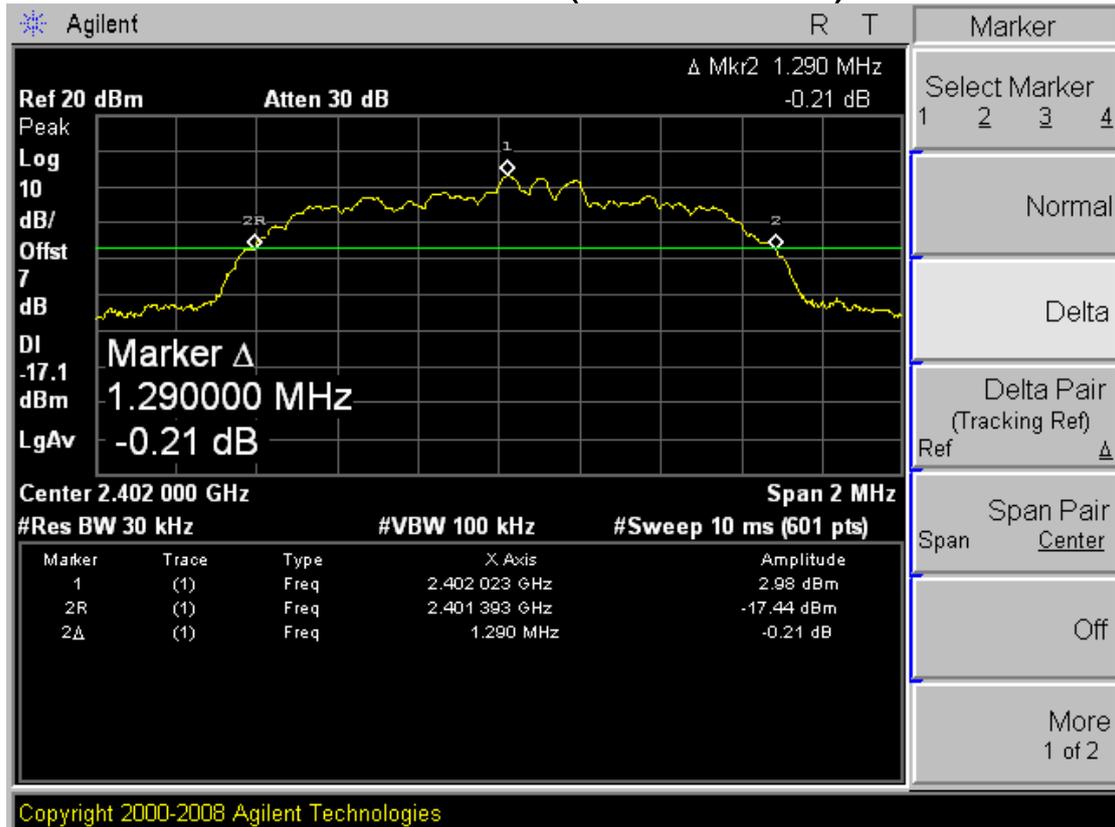
## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



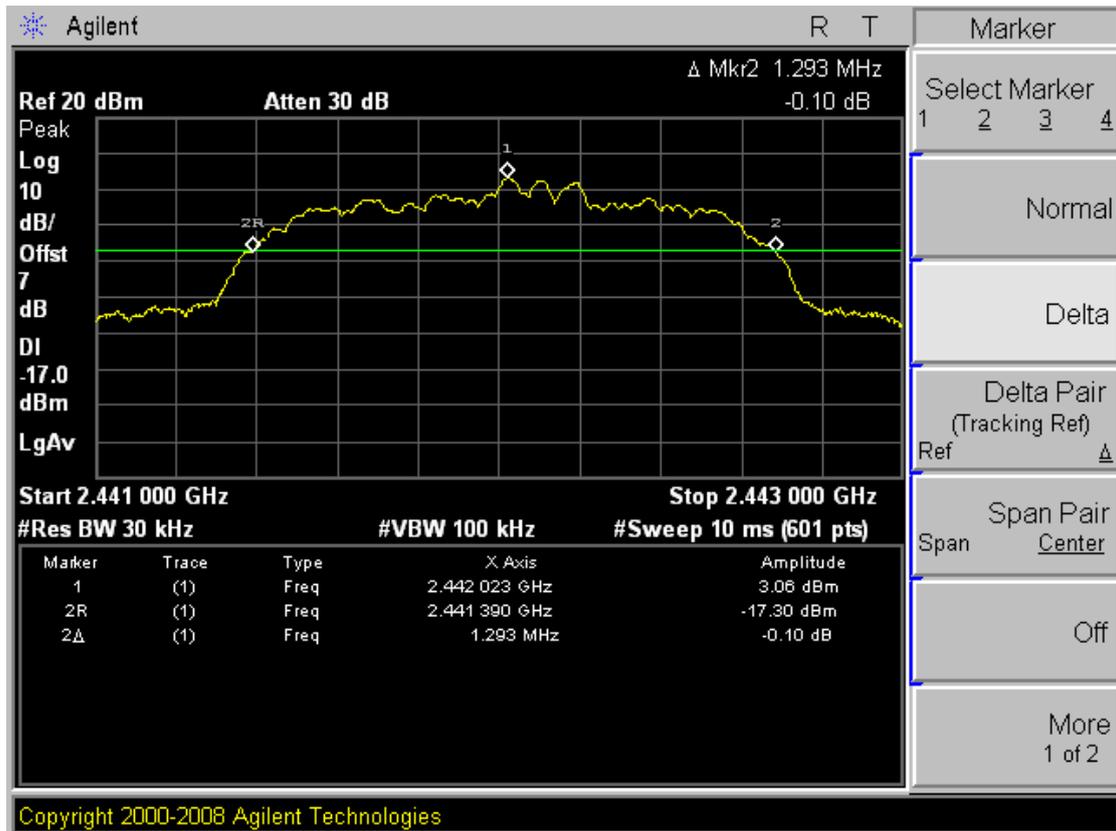
# Modulation: $\pi/4$ -DQPSK

## Channel 0 (2402MHz)



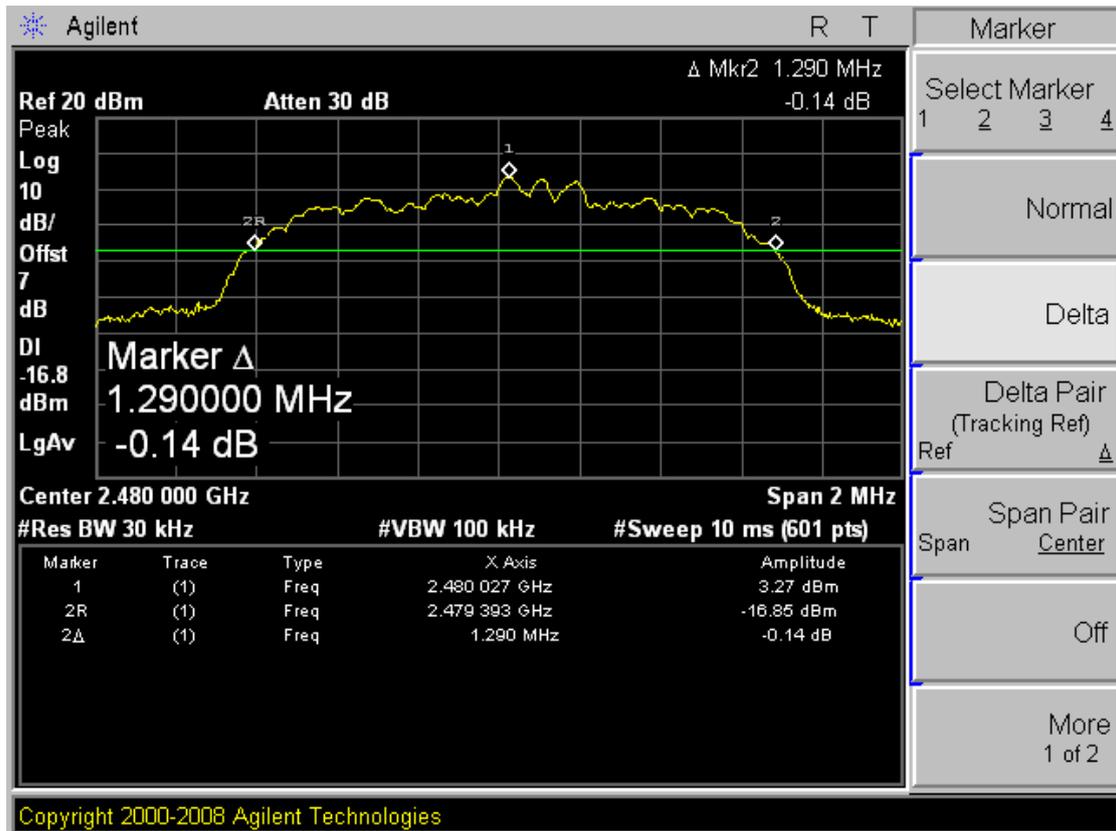


## Channel 40 (2442MHz)





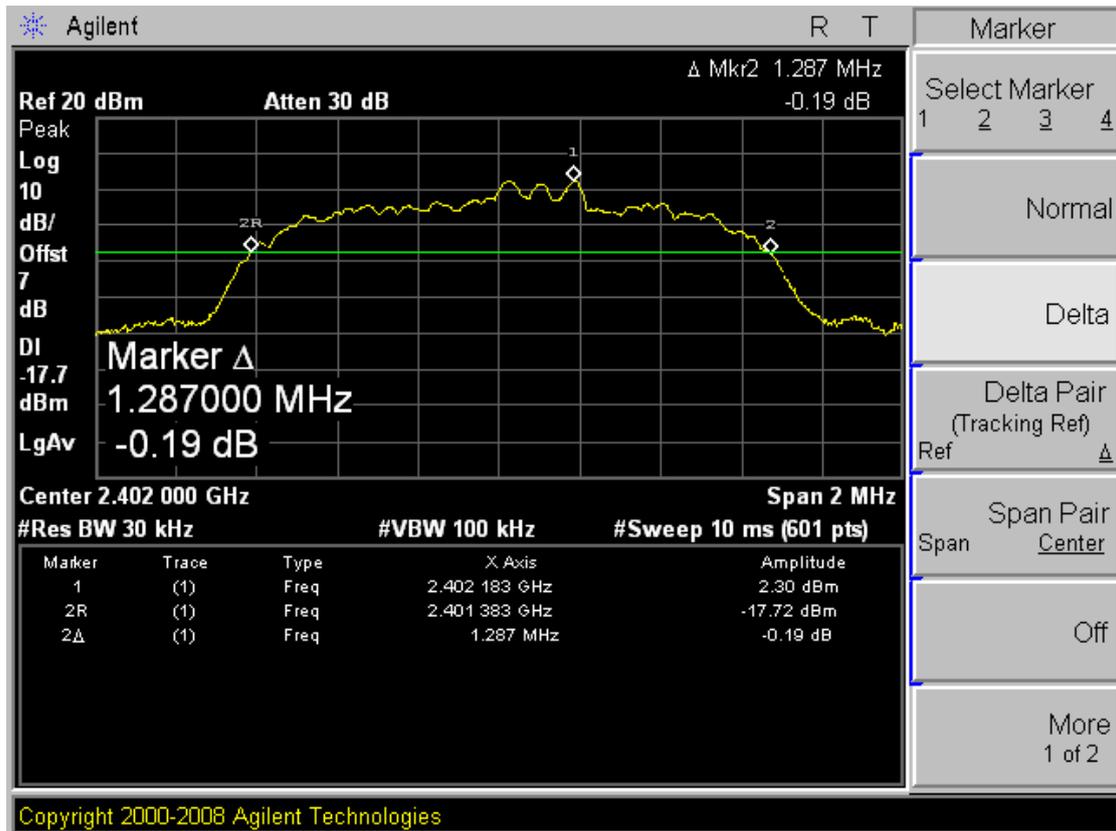
## Channel 78 (2480MHz)



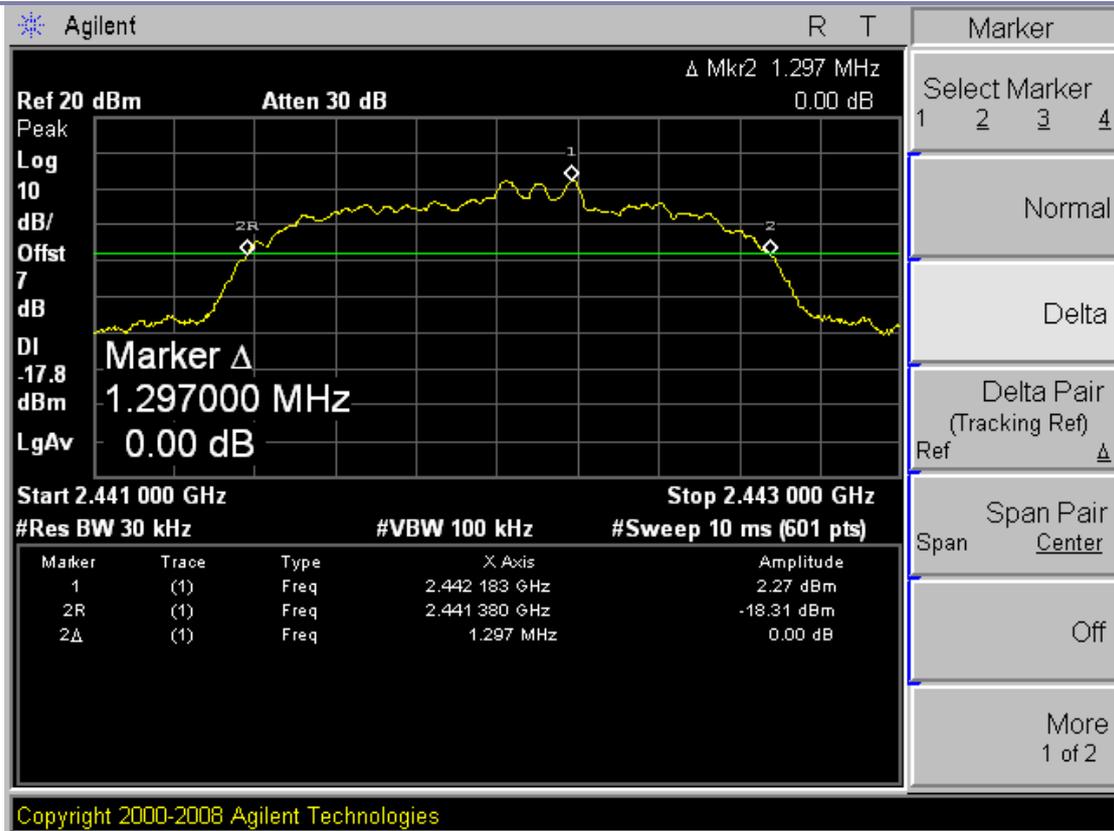
## Modulation: 8DPSK



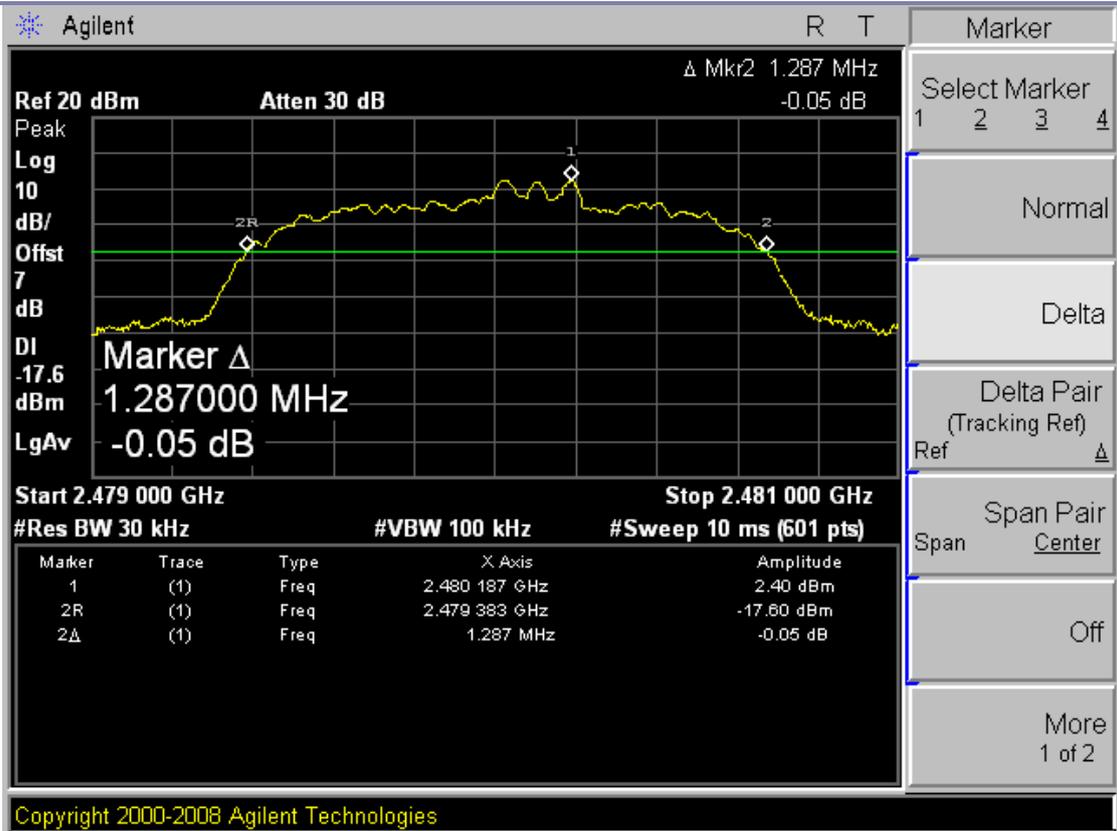
## Channel 0 (2402MHz)



## Channel 40 (2442MHz)



## Channel 78 (2480MHz)





## **Appendix B**

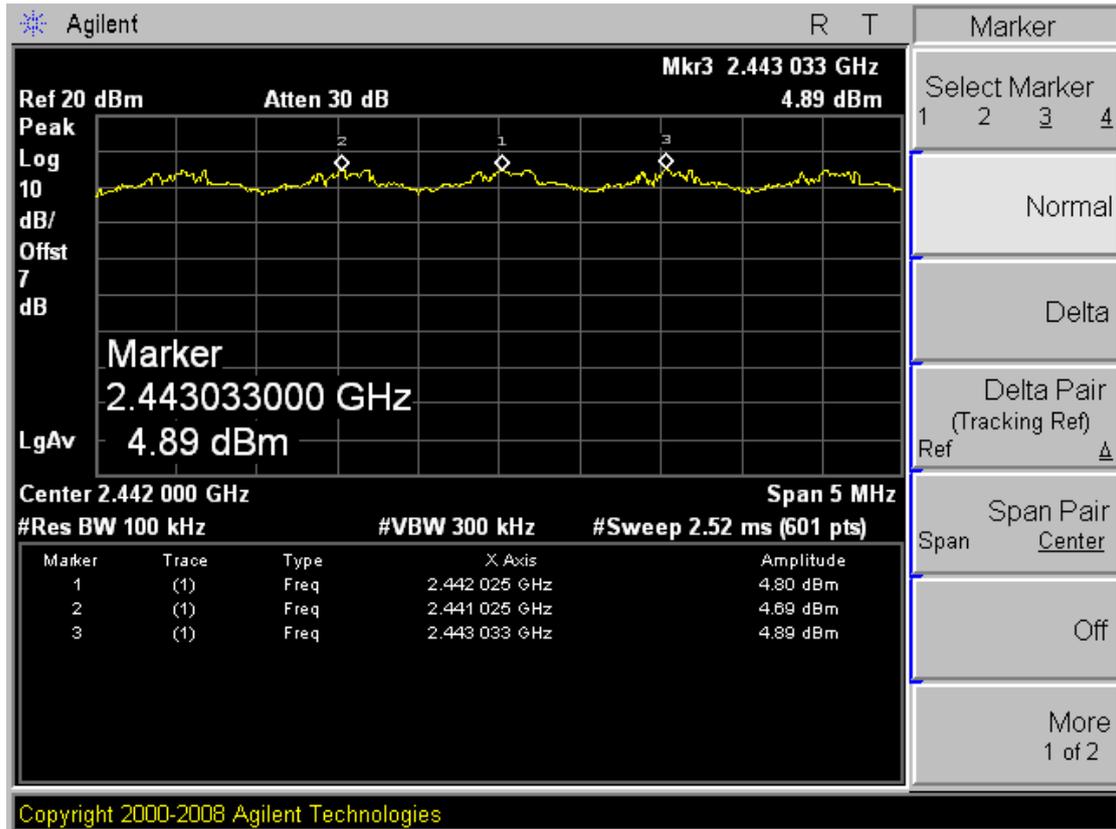
# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



# Modulation: $\pi/4$ -DQPSK

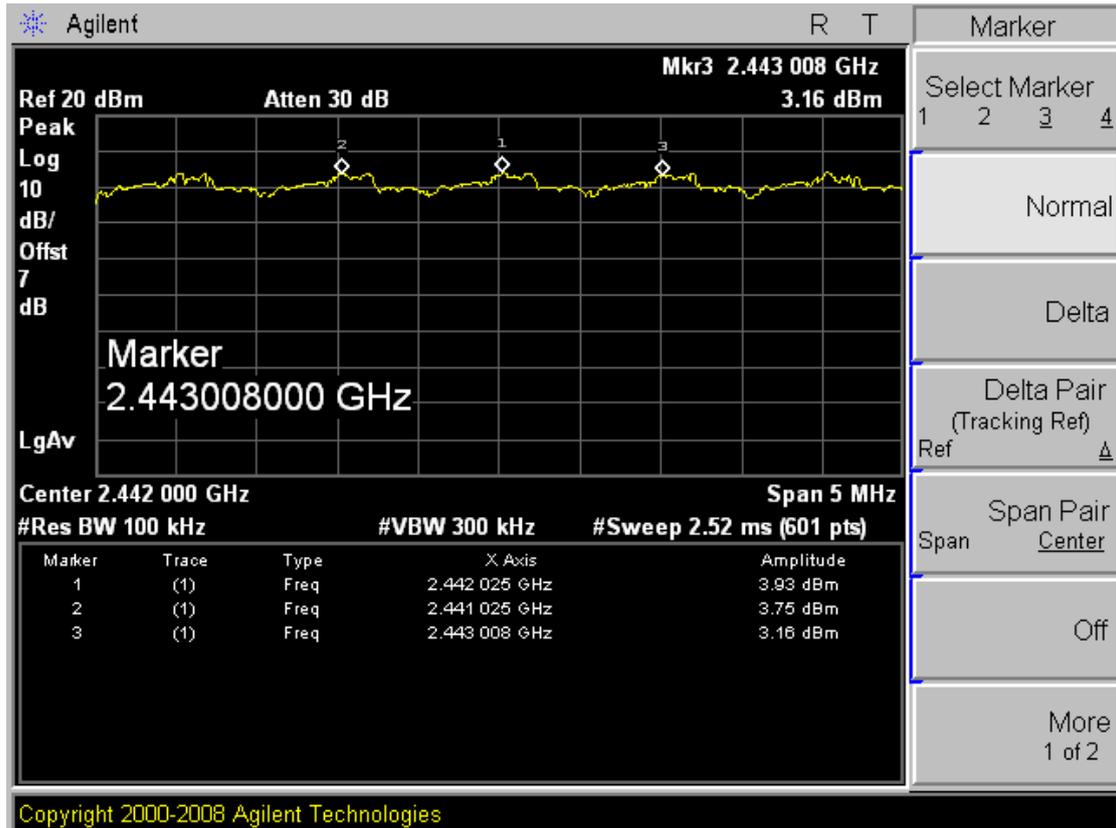
## Centred at Channel 40





# Modulation: 8DPSK

## Centred at Channel 40





## Appendix C

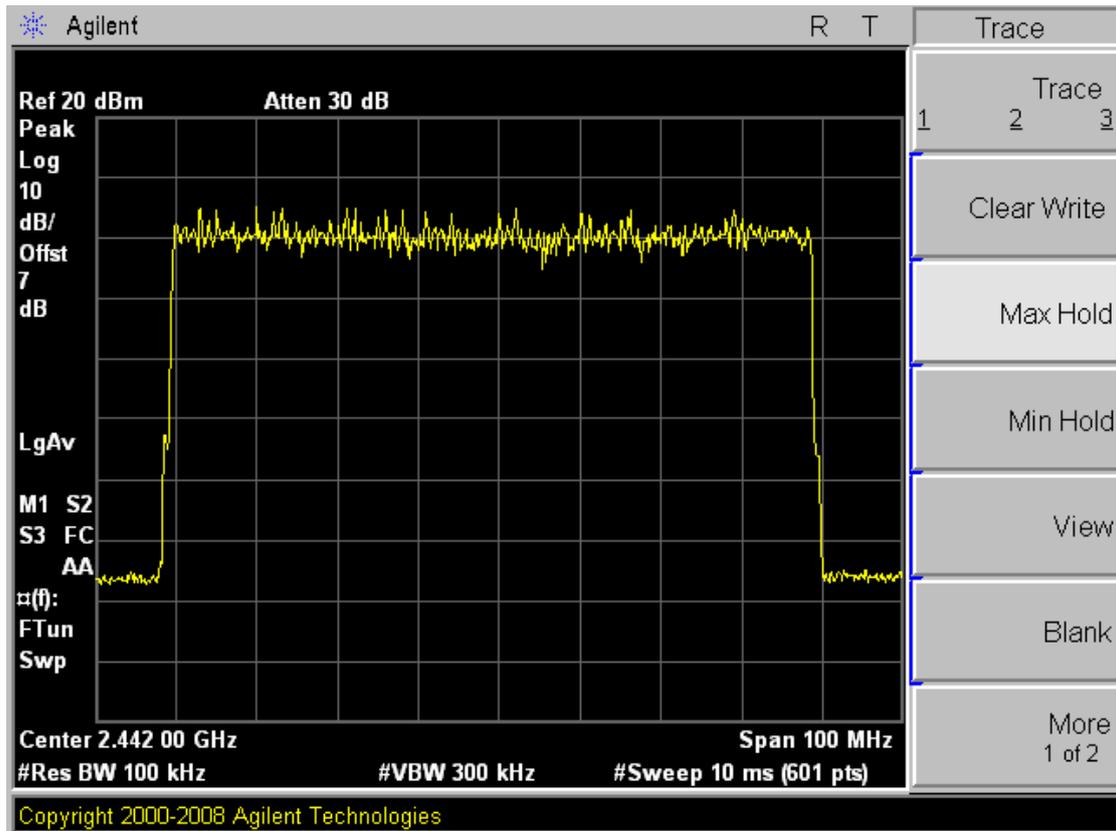
# Number of hopping channel

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



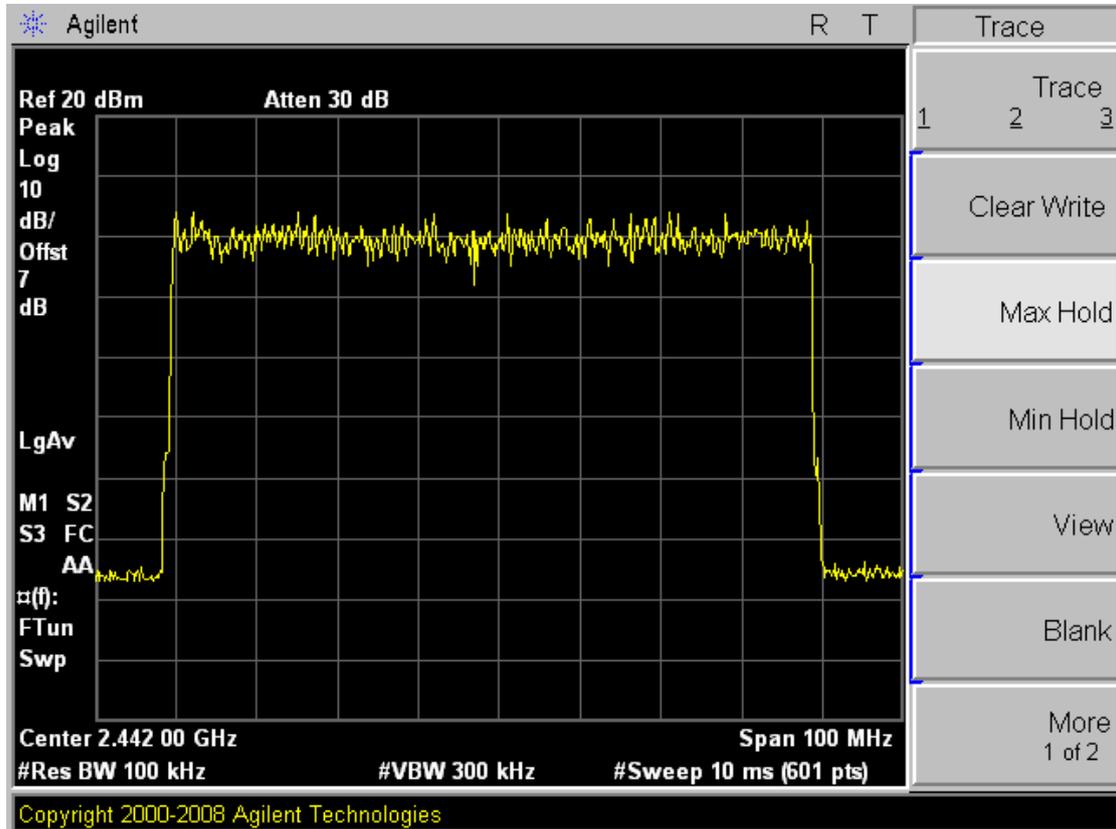
# Modulation: $\pi/4$ -DQPSK

## Total hopping channels = 79





# Modulation: 8DPSK





# Appendix D

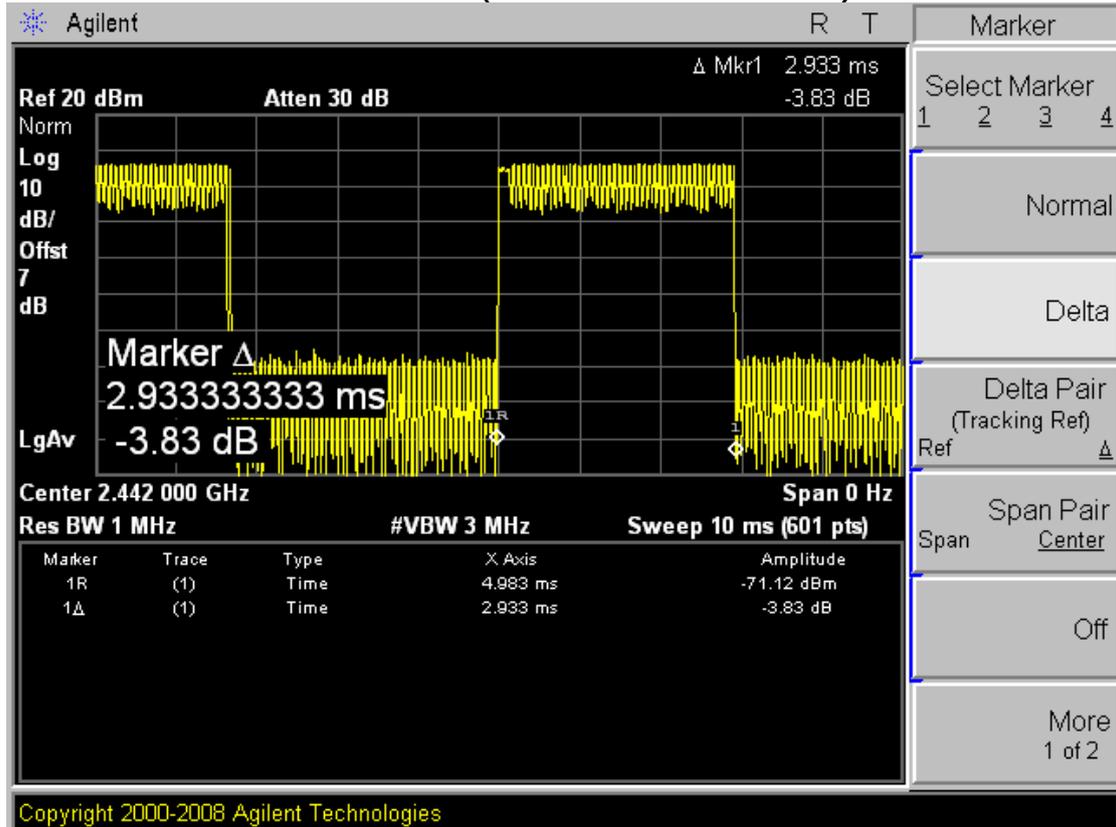
## Time of occupancy

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



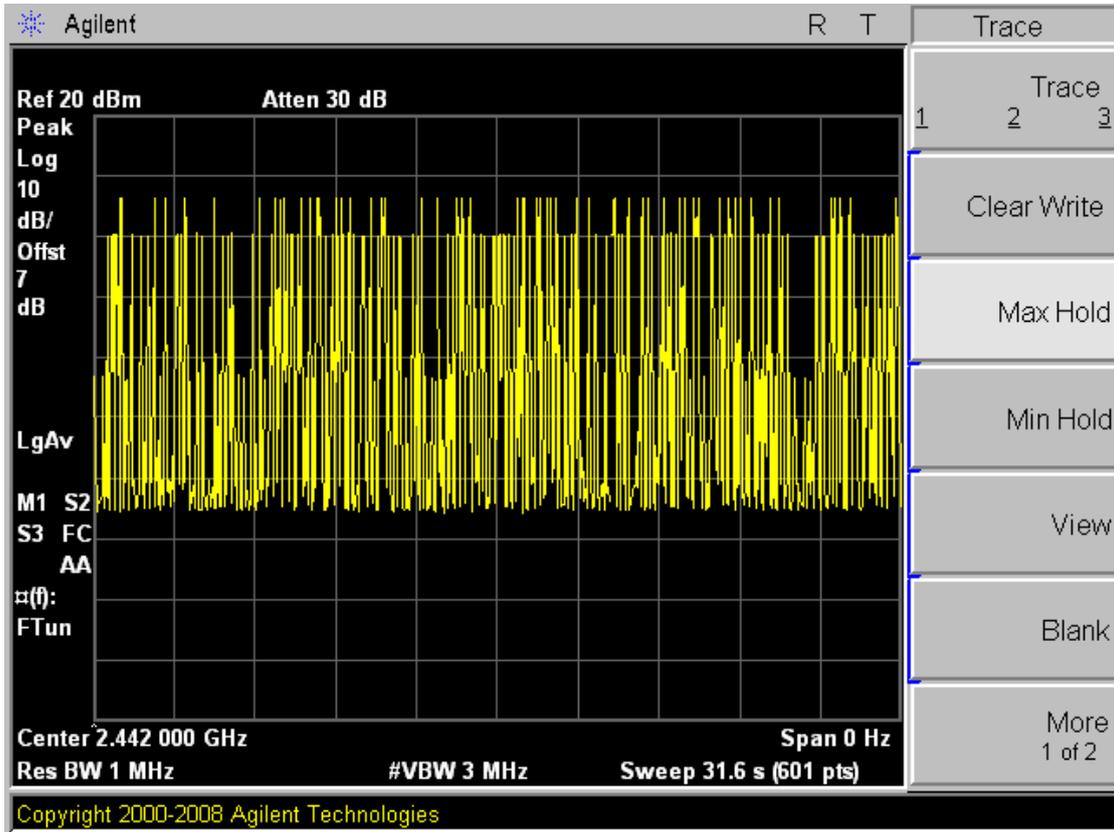
# Modulation: $\pi/4$ -DQPSK

## A burst (One time slot)





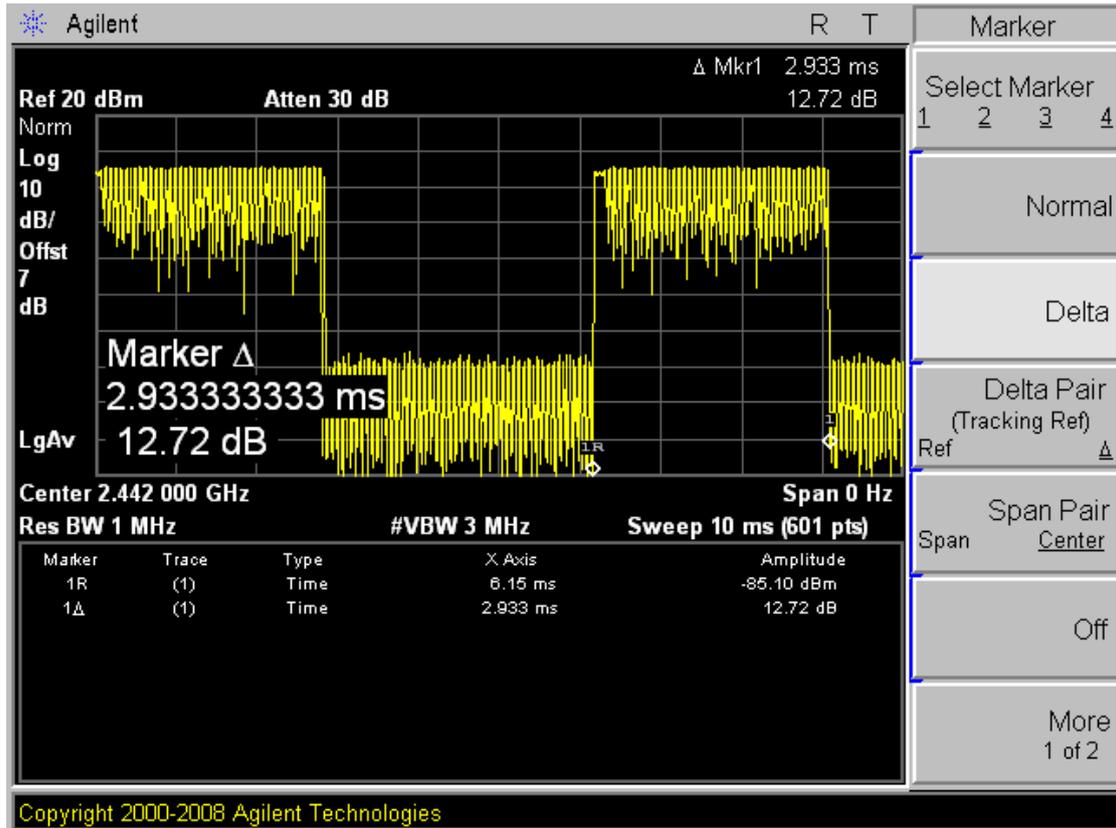
## A period (Less than 106.7 burst)





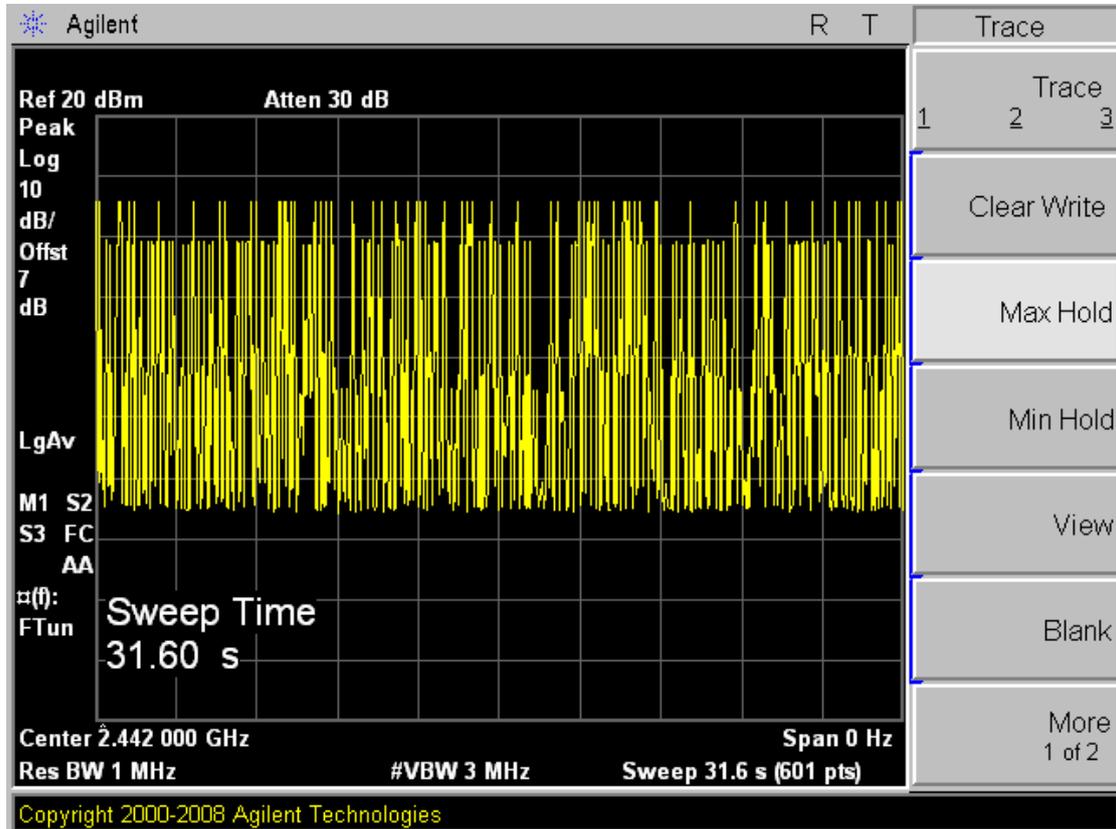
# Modulation: 8DPSK

## A burst (One time slot)





## A period (Less than 106.7 burst)





# Appendix E

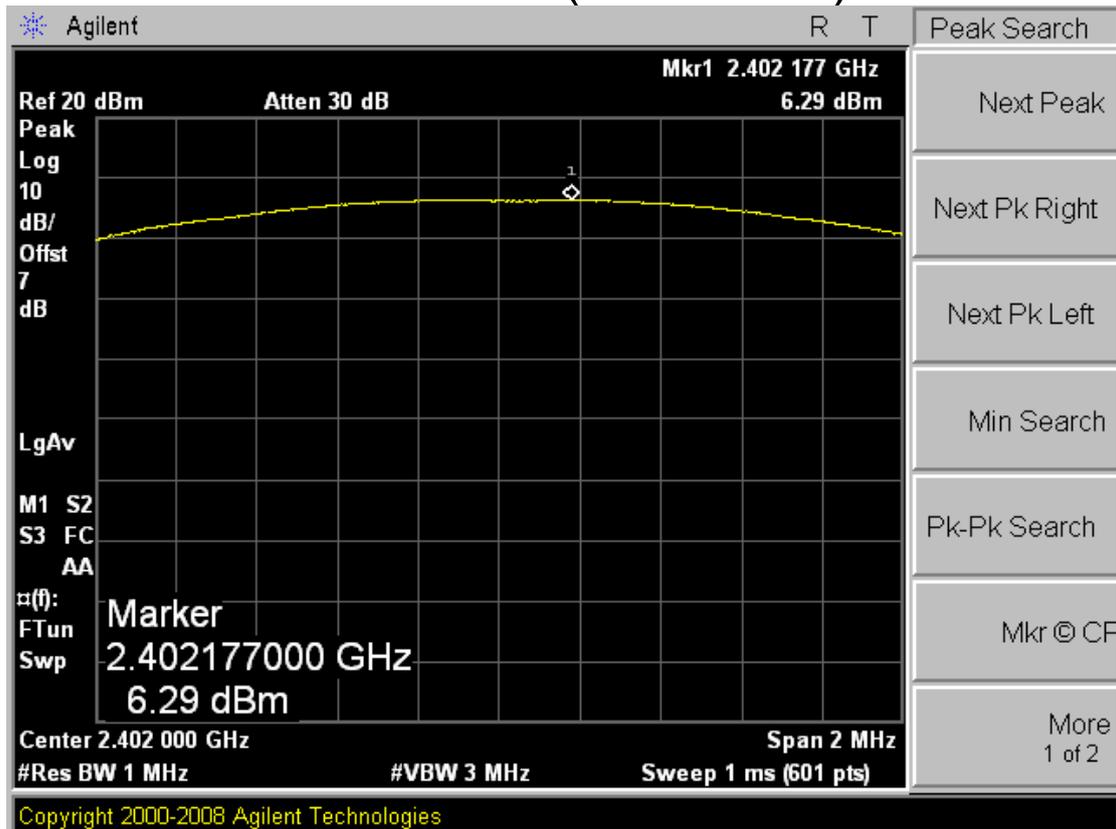
## Peak output power

According to FCC Part 15.247 (b) (1)



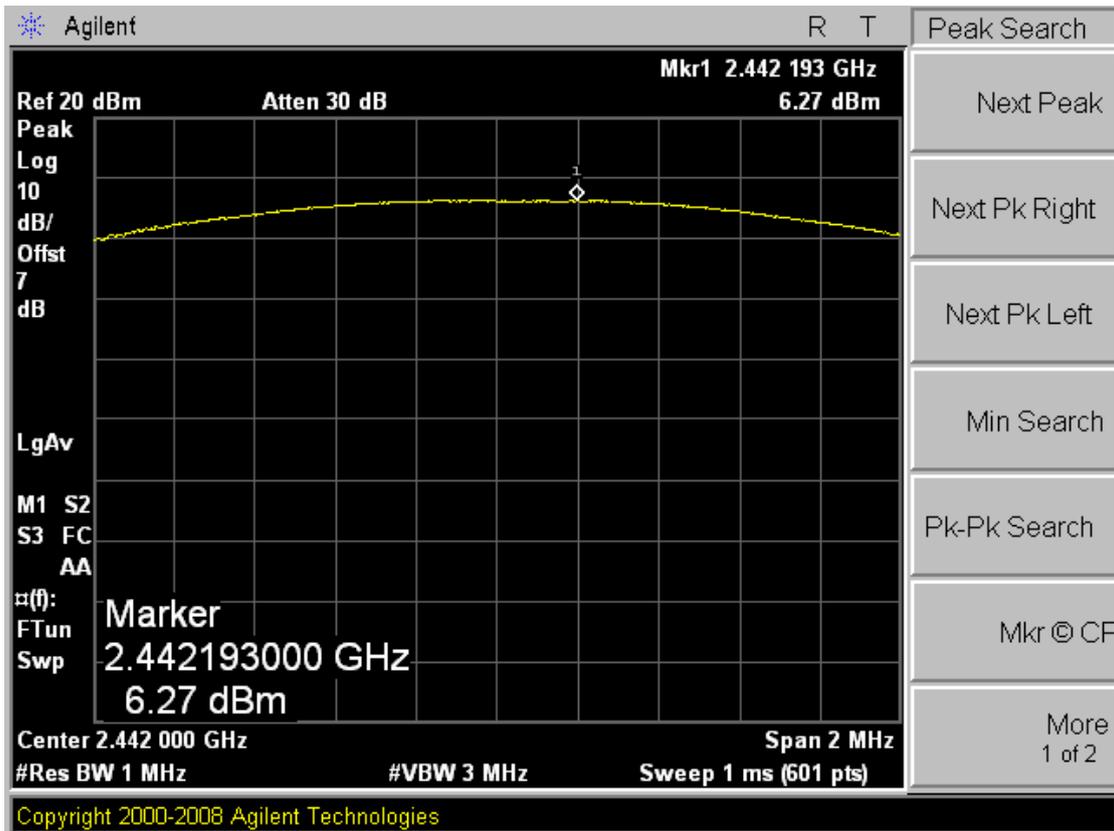
# Modulation: $\pi/4$ -DQPSK)

## Channel 0 (2402MHz)



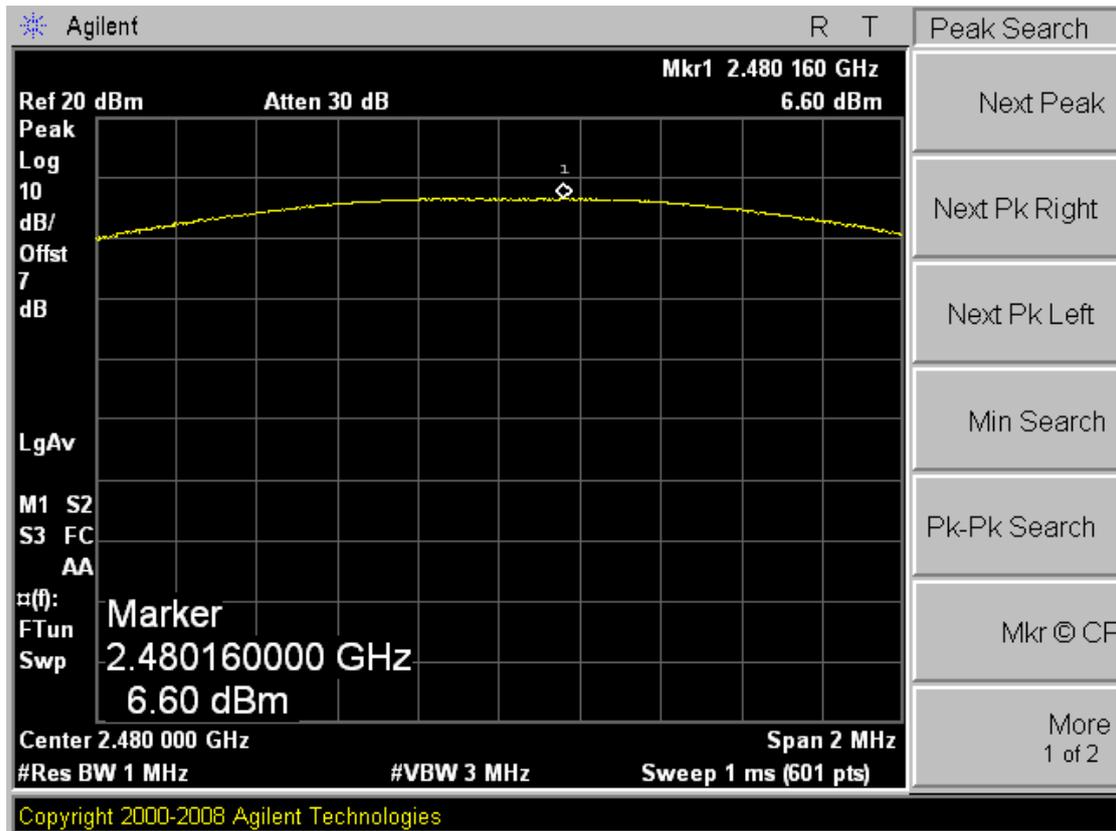


# Channel 40 (2442MHz)





# Channel 78 (2480MHz)





# Modulation: 8DPSK)

## Channel 0 (2402MHz)



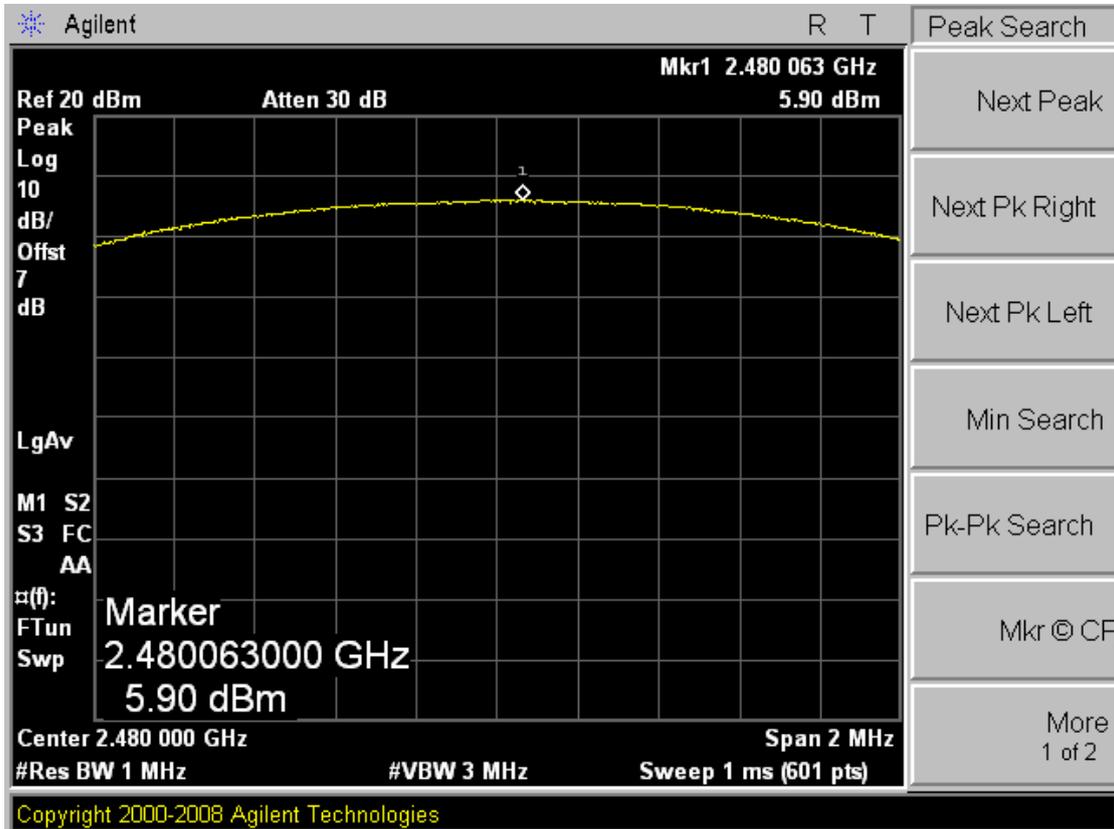


# Channel 40 (2442MHz)





# Channel 78 (2480MHz)





# Appendix F

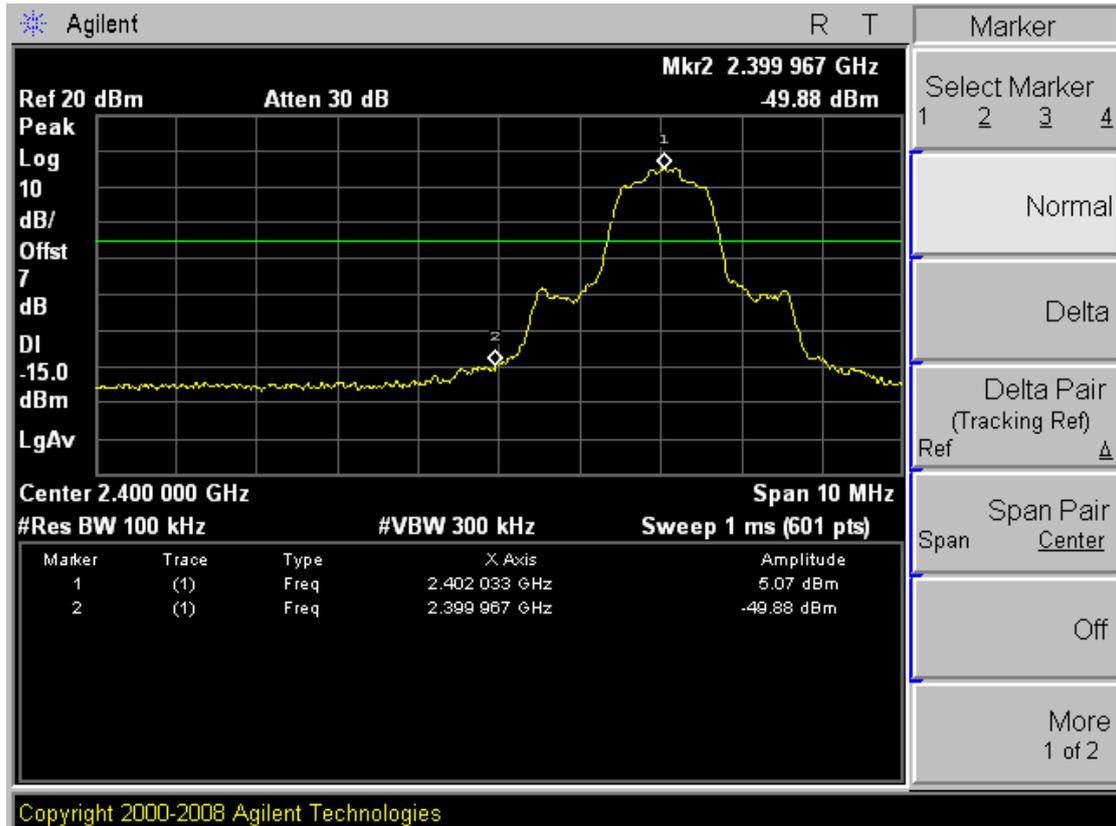
## Band edge spurious emission

According to FCC Part 15.247 (d)



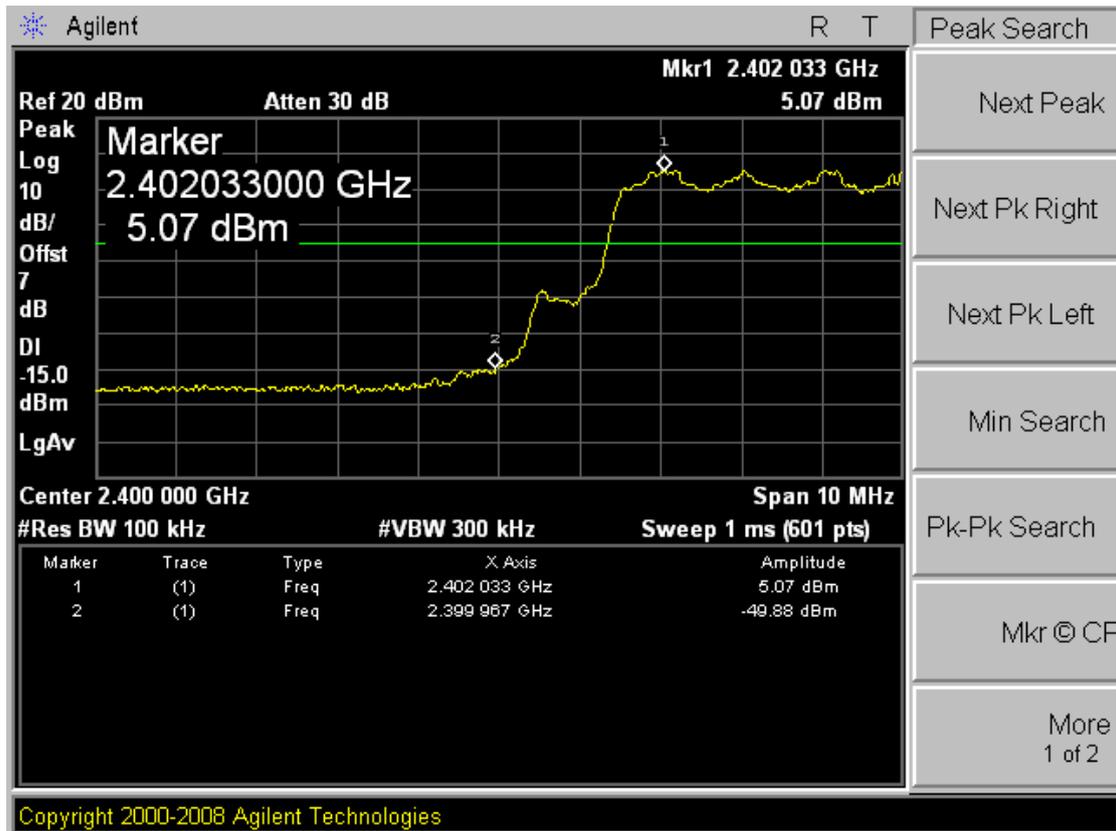
# (Modulation: $\pi/4$ -DQPSK)

## Low edge (Channel 0, no hopping)



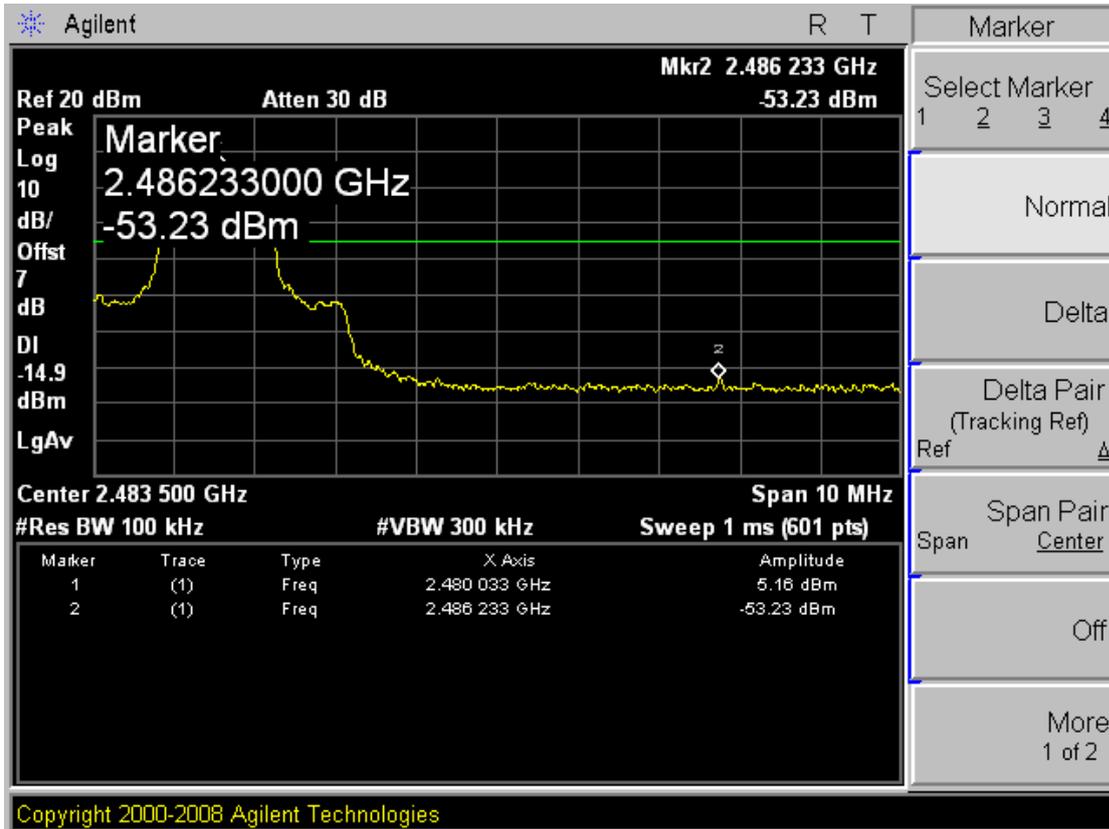


## Low edge (with hopping)



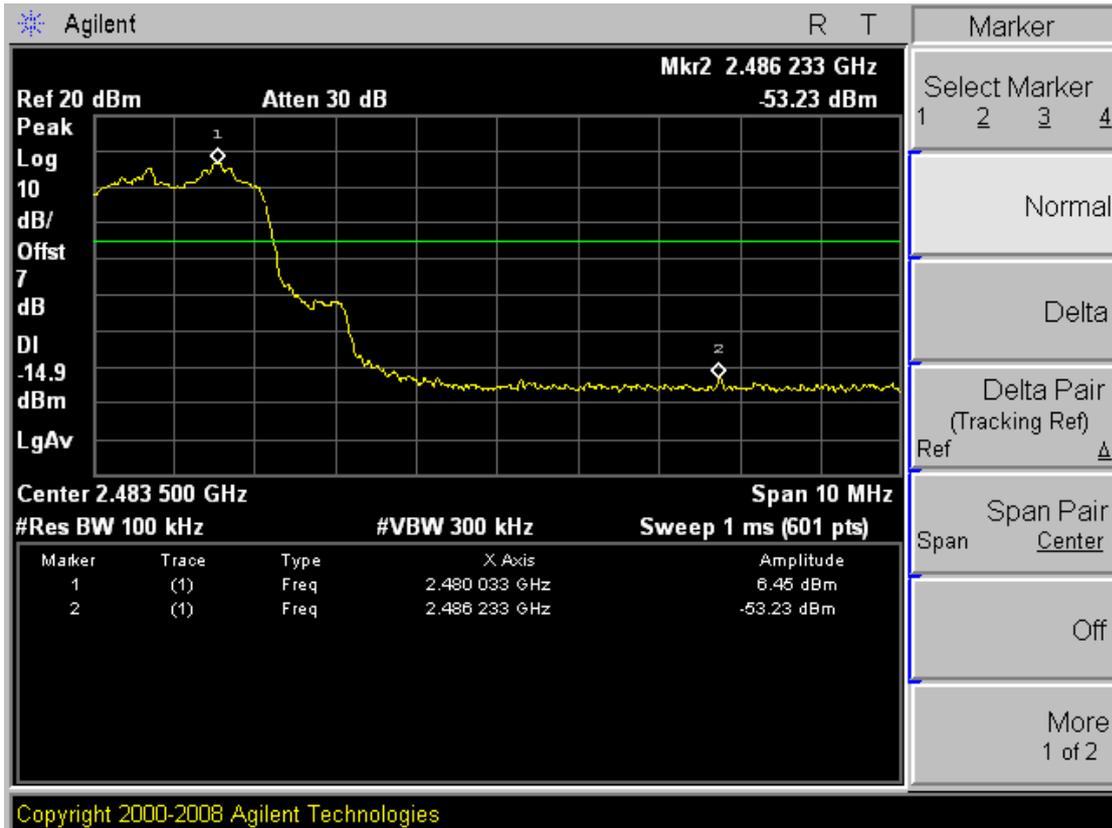


## High edge (Channel 78, no hopping)





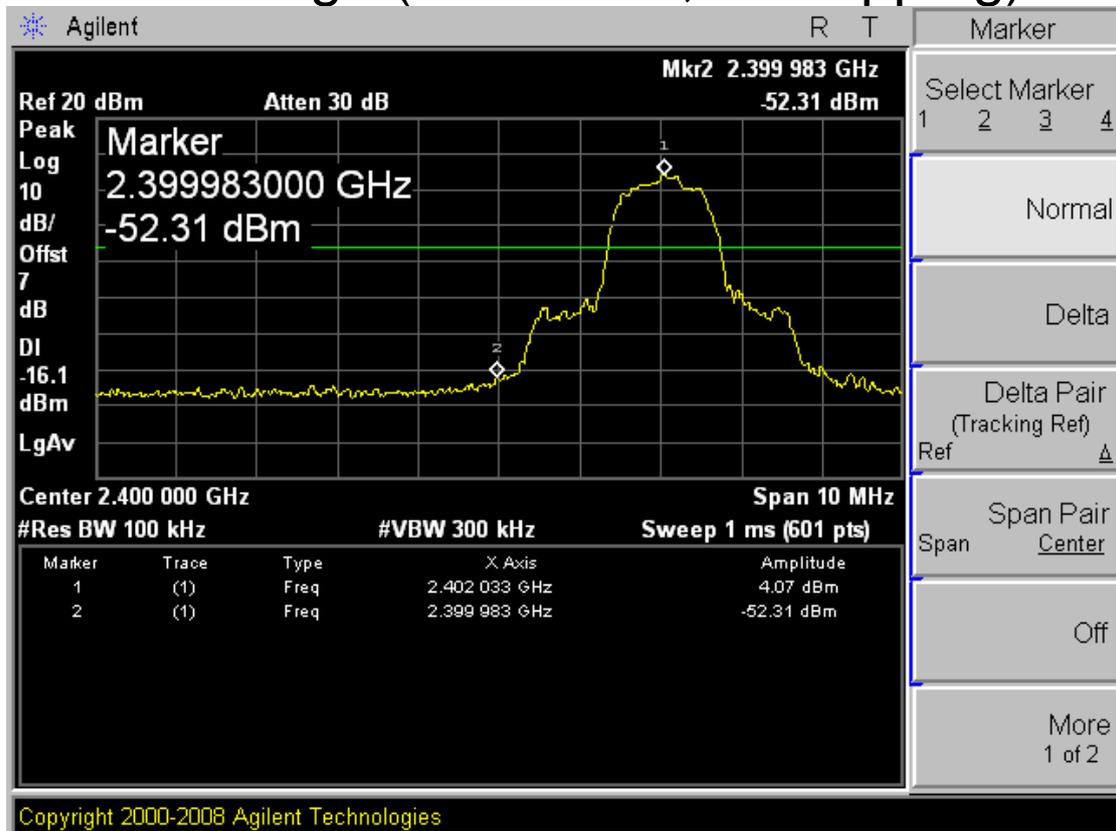
## High edge (with hopping)





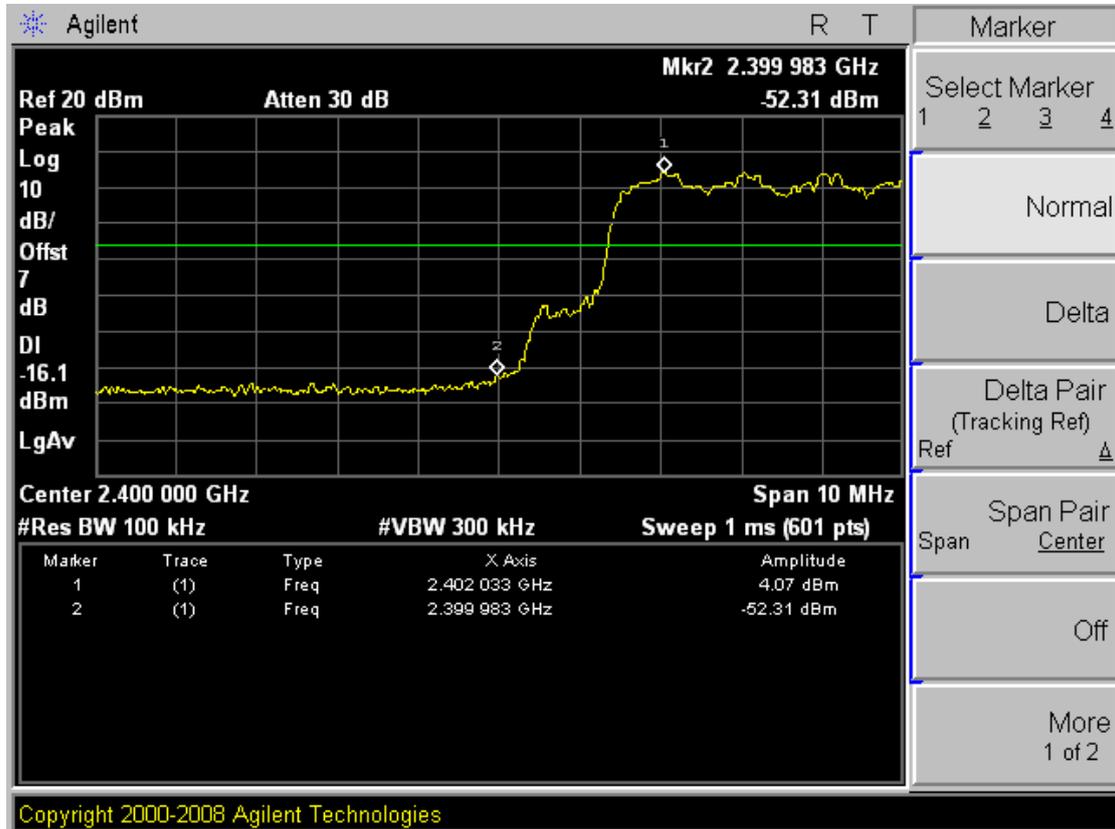
## (Modulation: 8DPSK)

### .Low edge (Channel 0, no hopping)

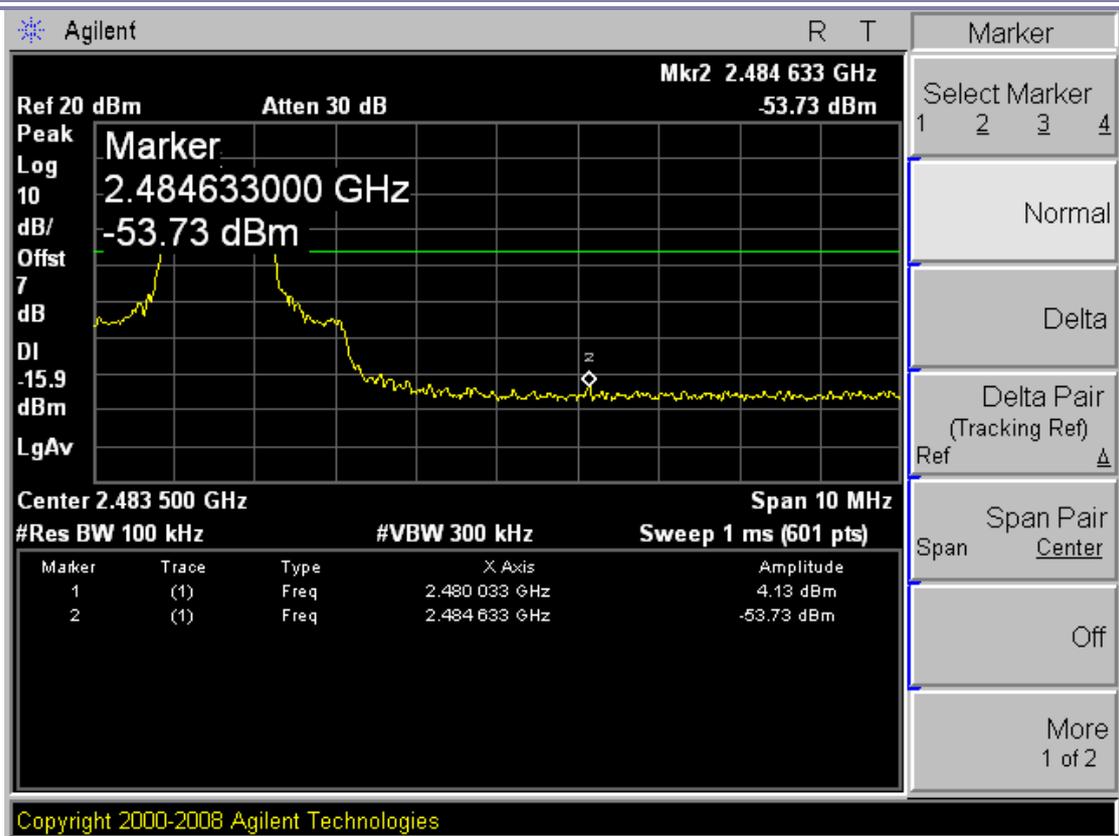




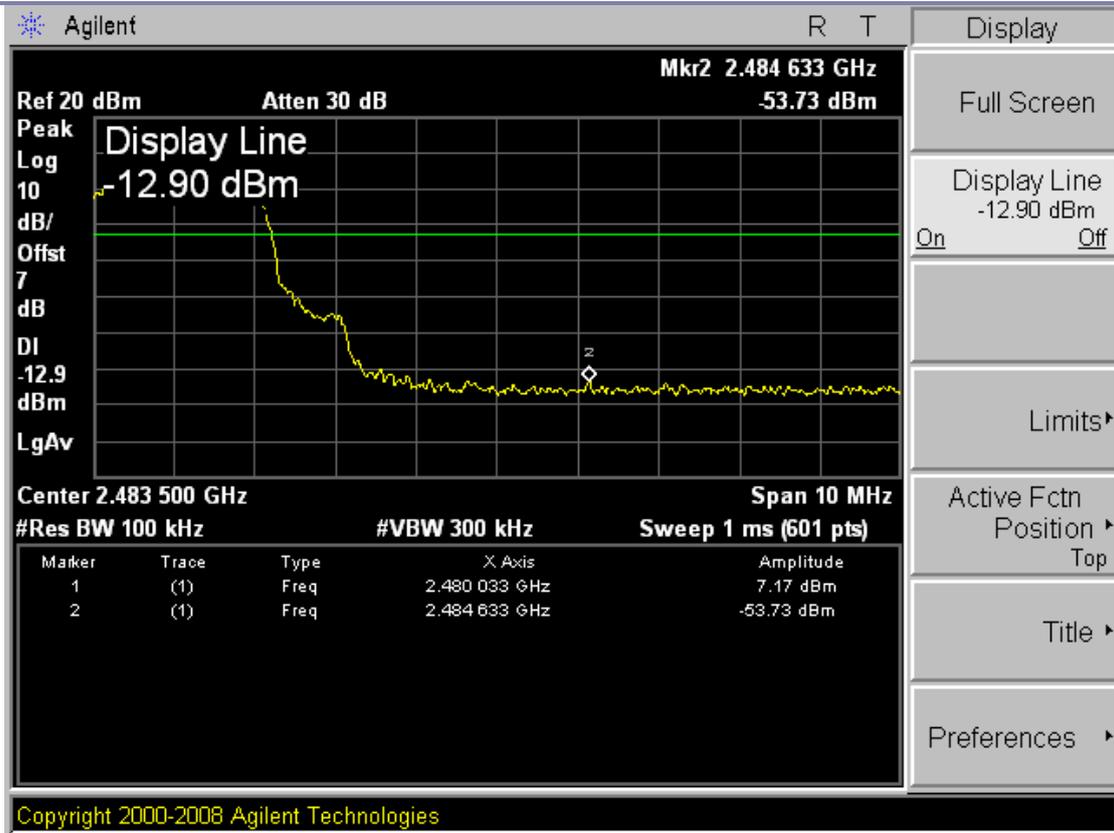
## Low edge (with hopping)



## High edge (Channel 78, no hopping)



High edge (with hopping)





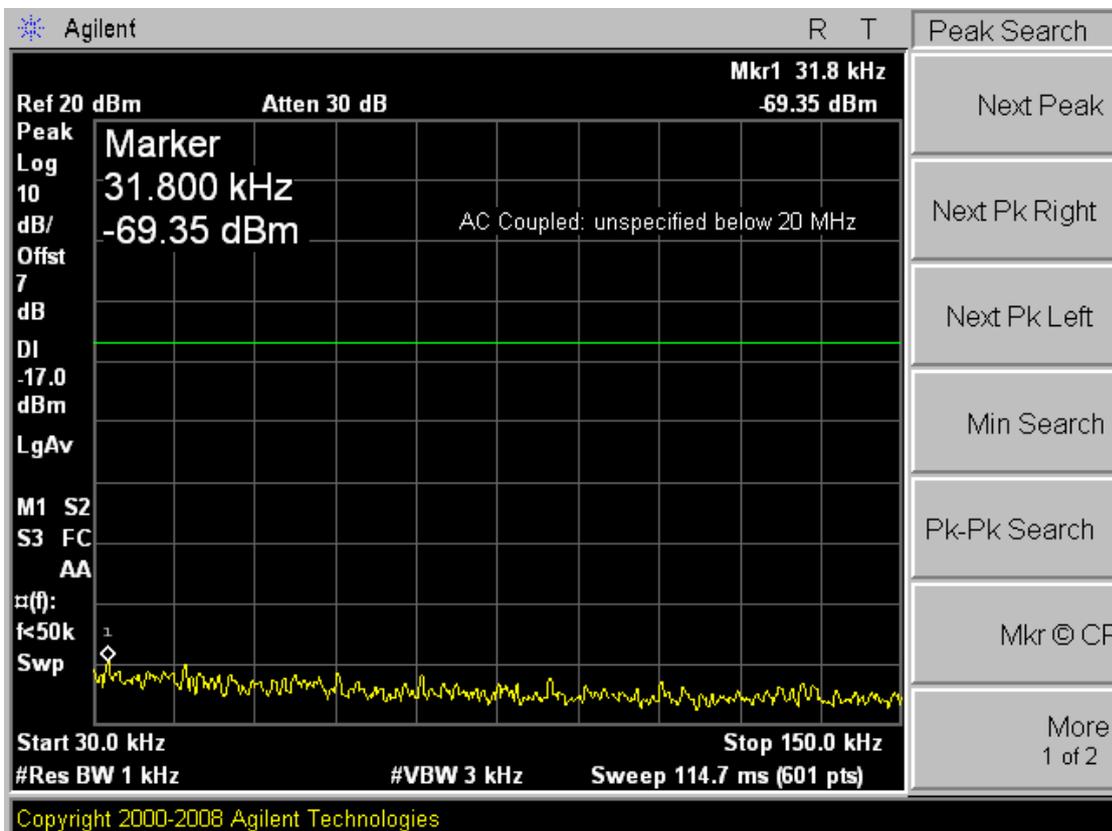
# Appendix G

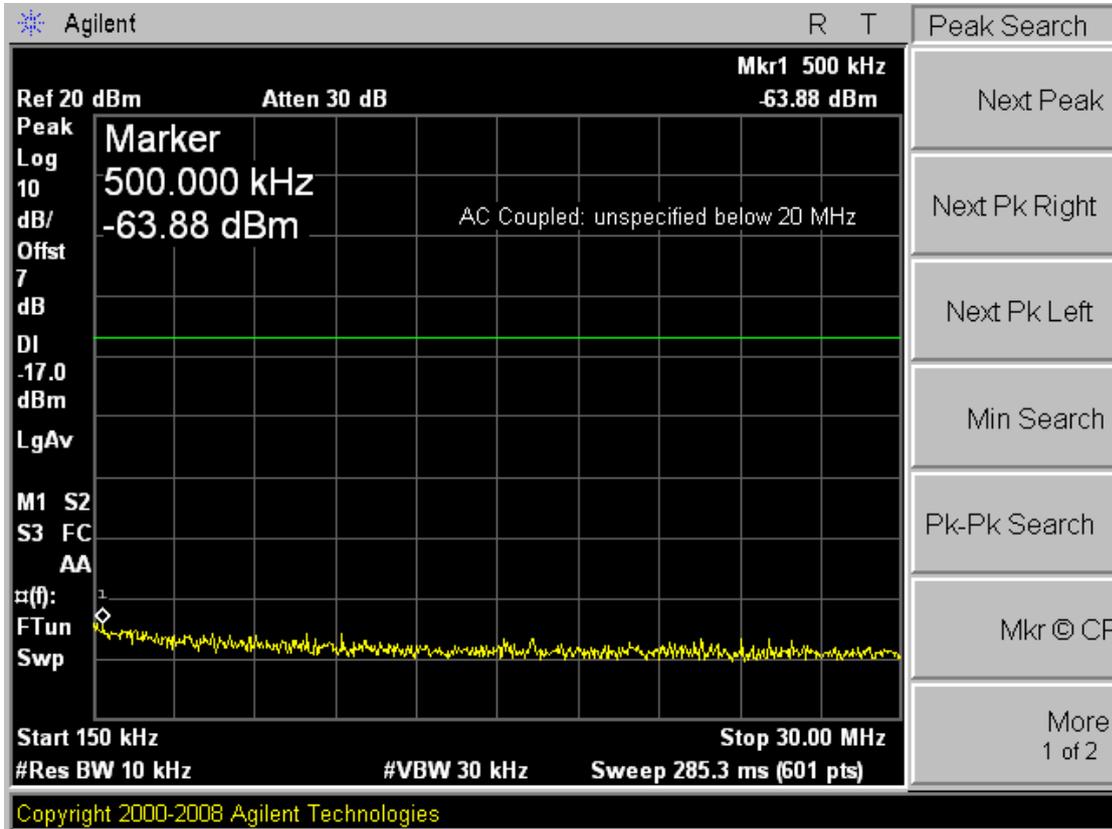
## Conducted RF spurious

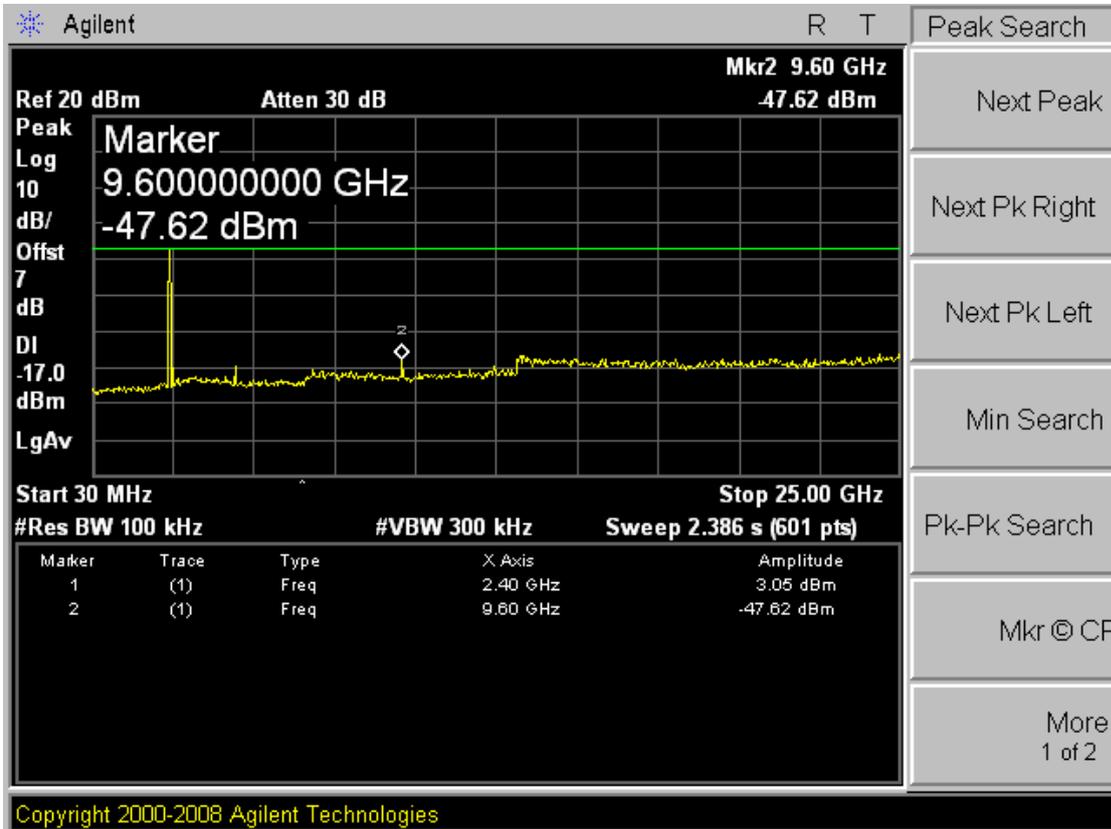
According to FCC Part 15.247 (d)



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

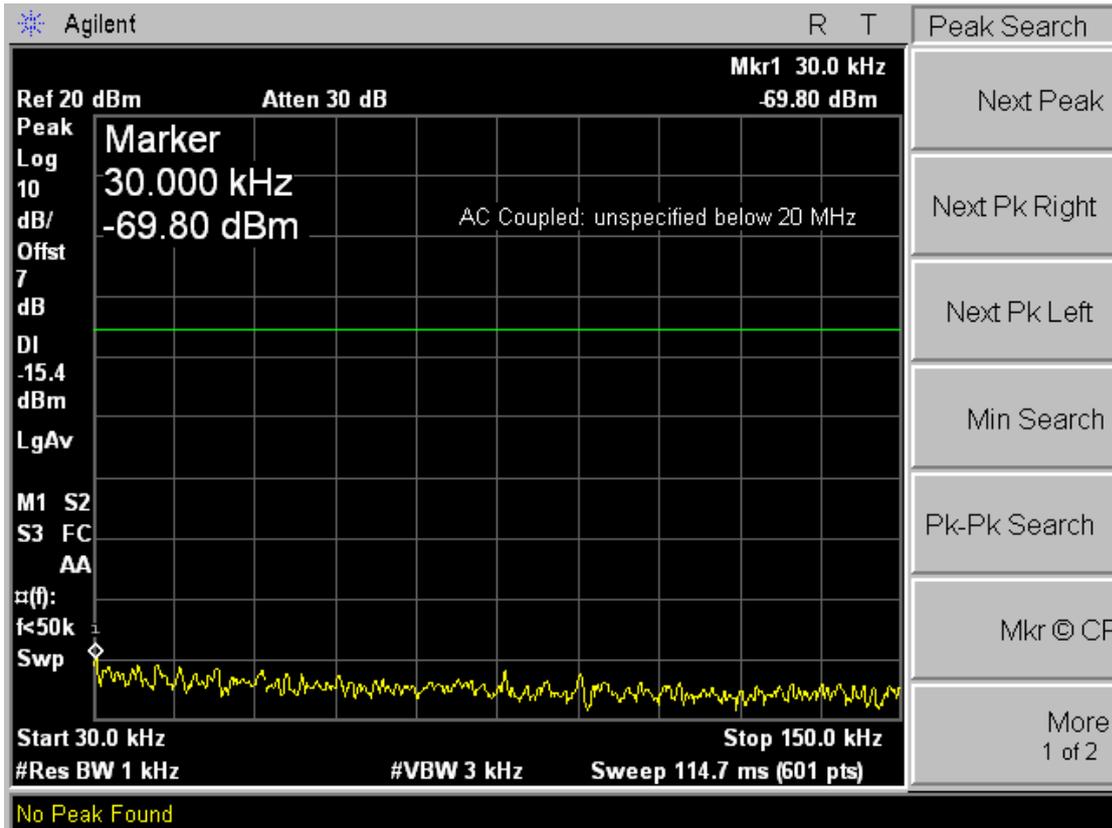


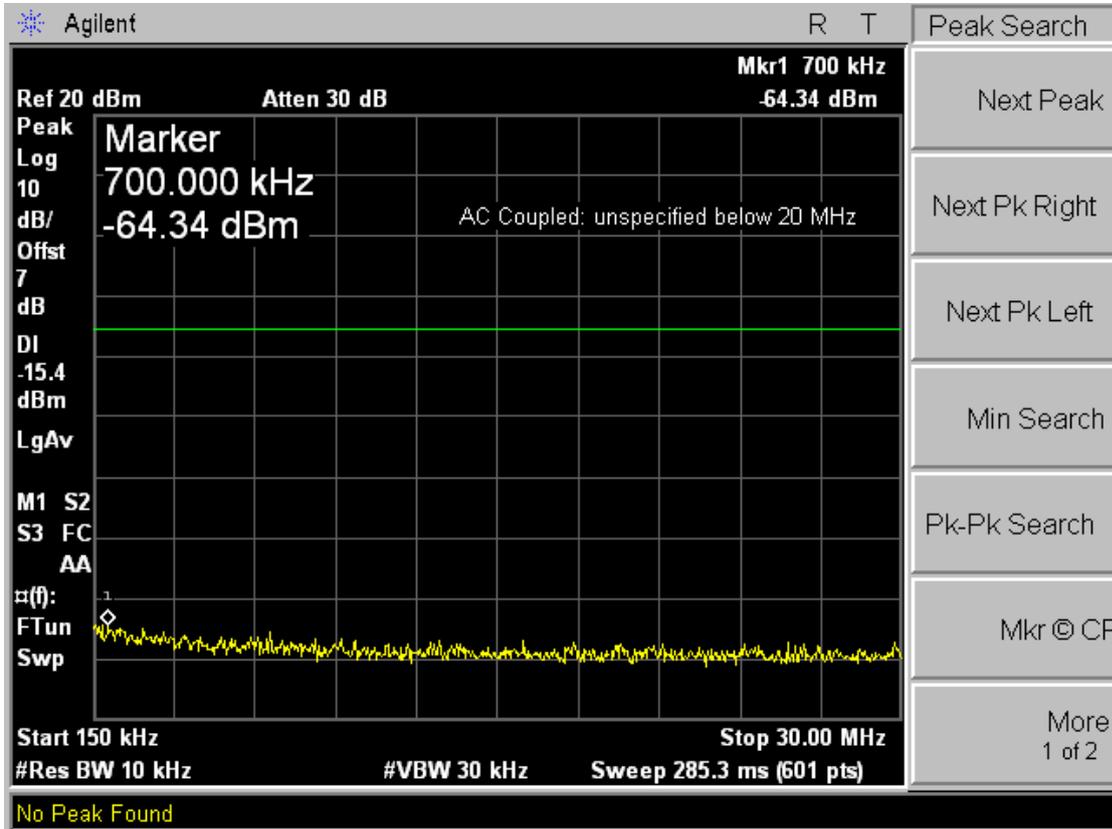


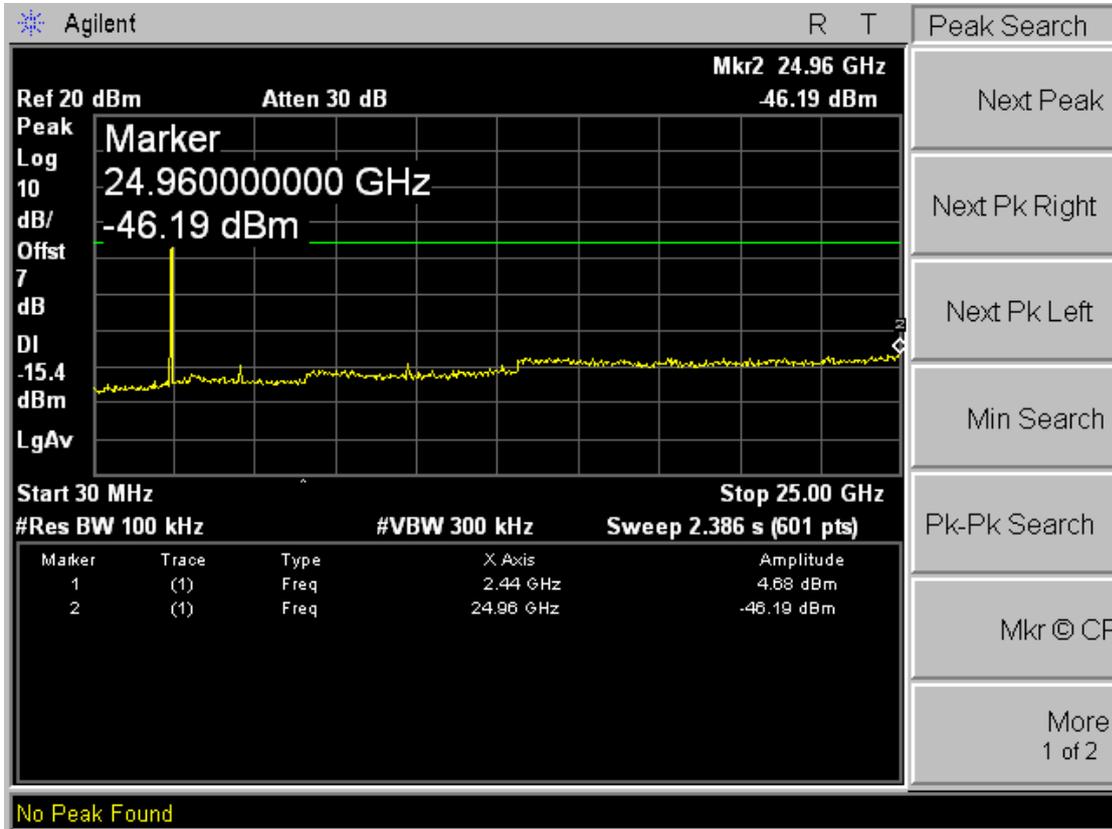




# Channel 40

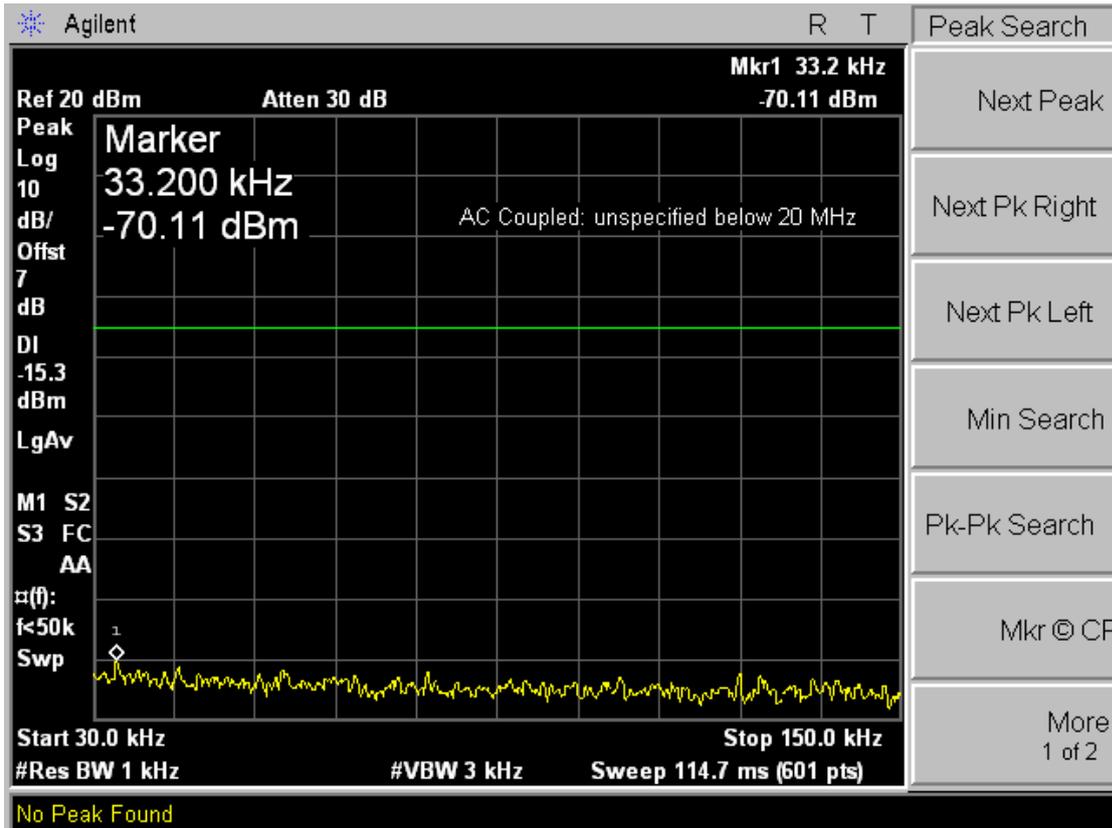


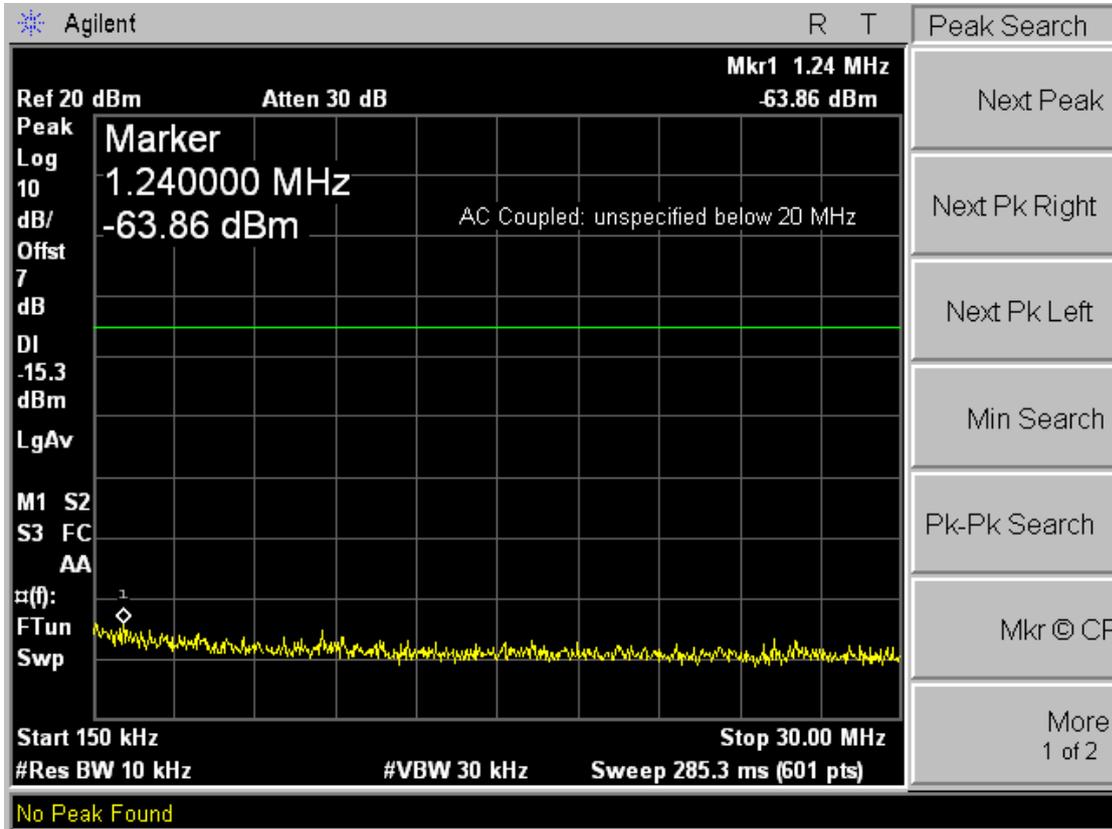


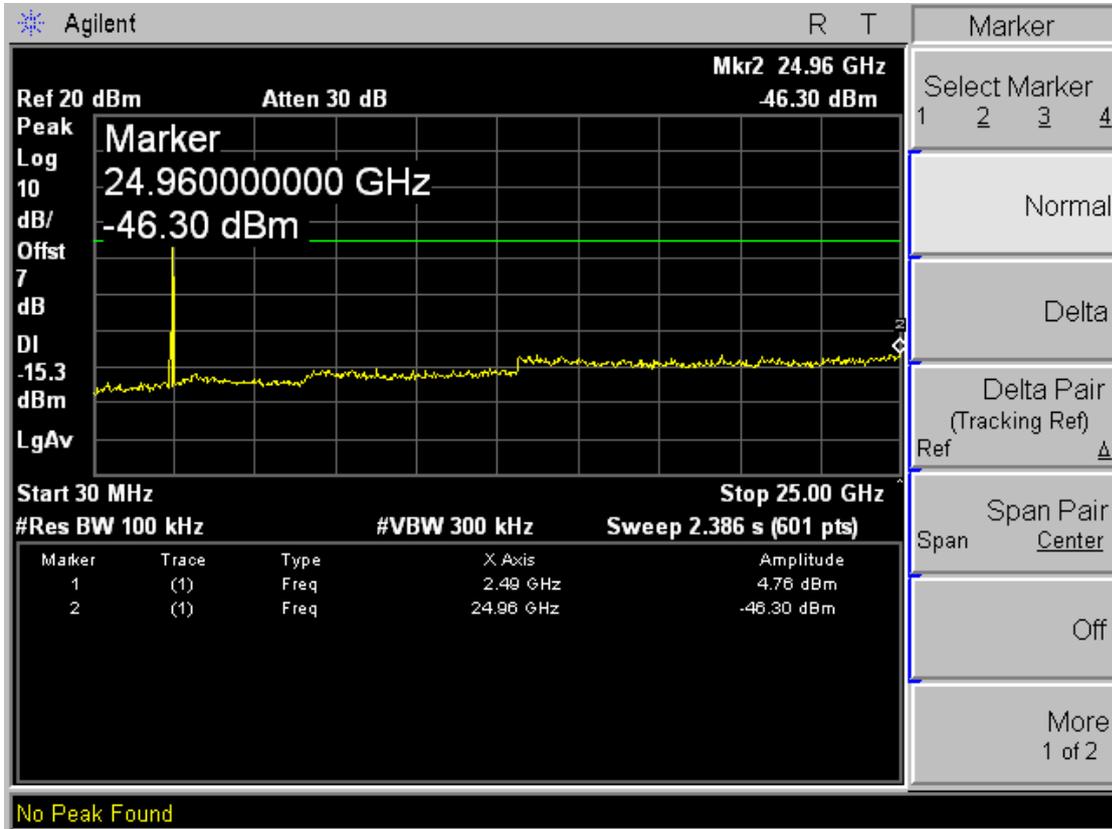




# Channel 78

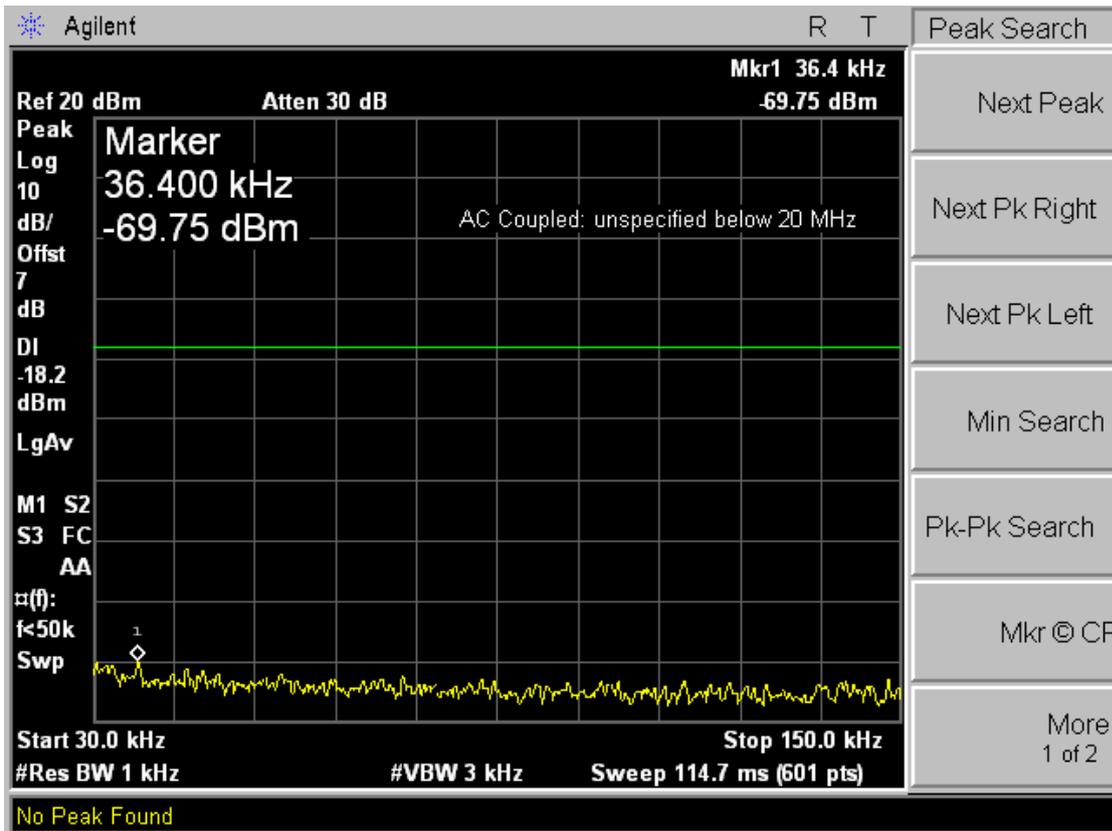


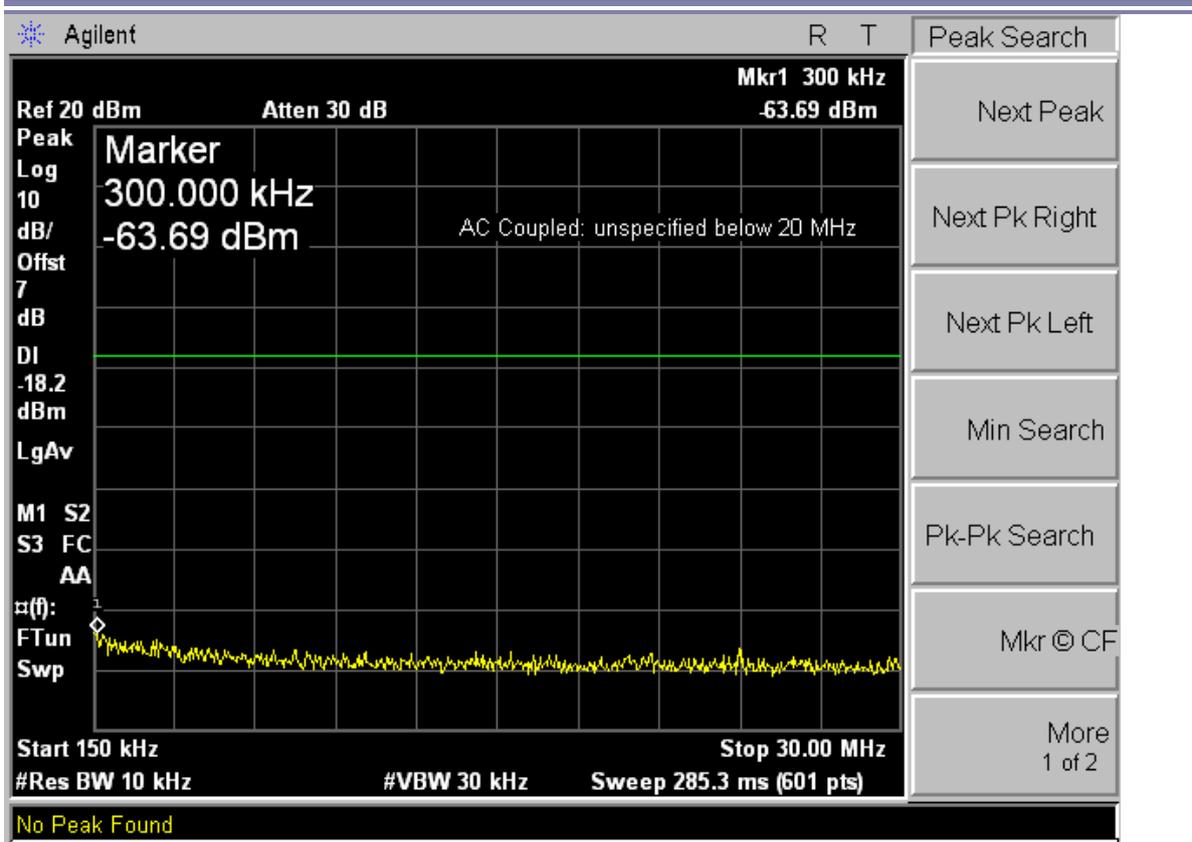


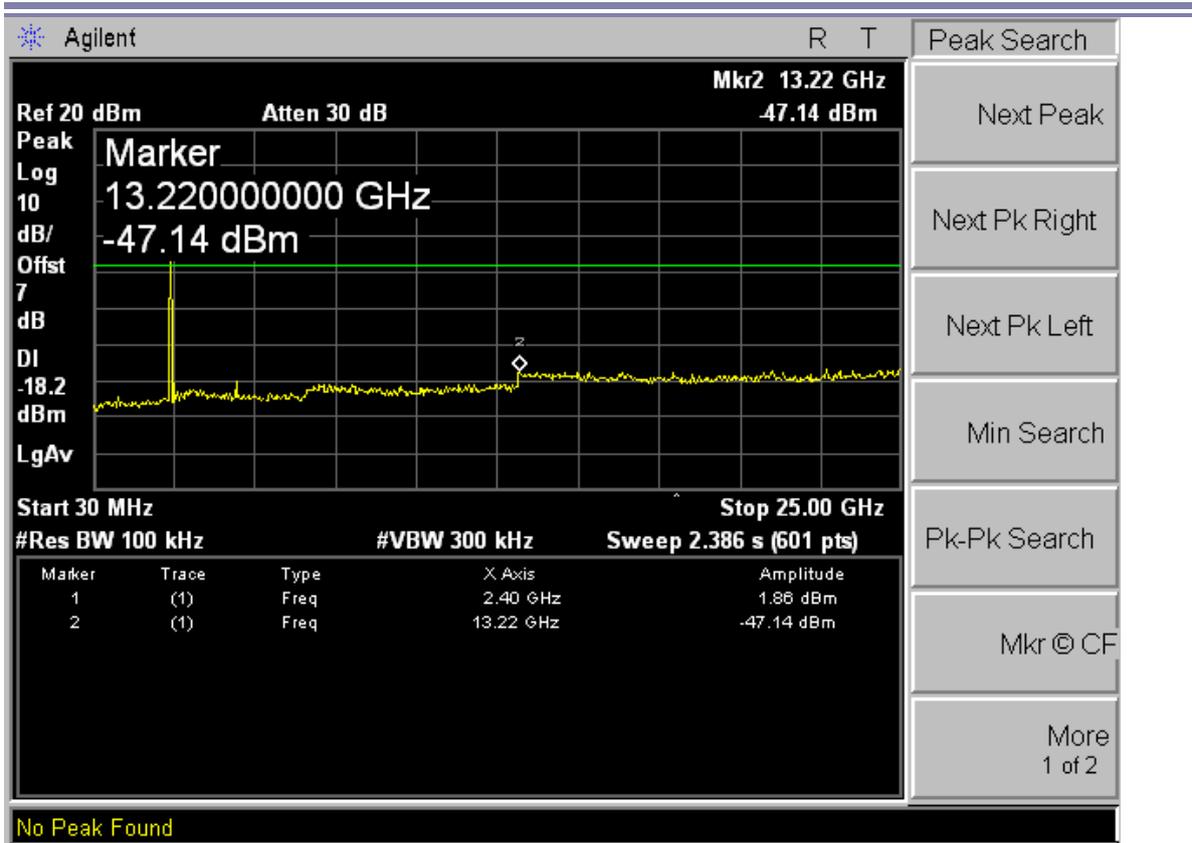




# (Modulation: 8DPSK) Channel 0

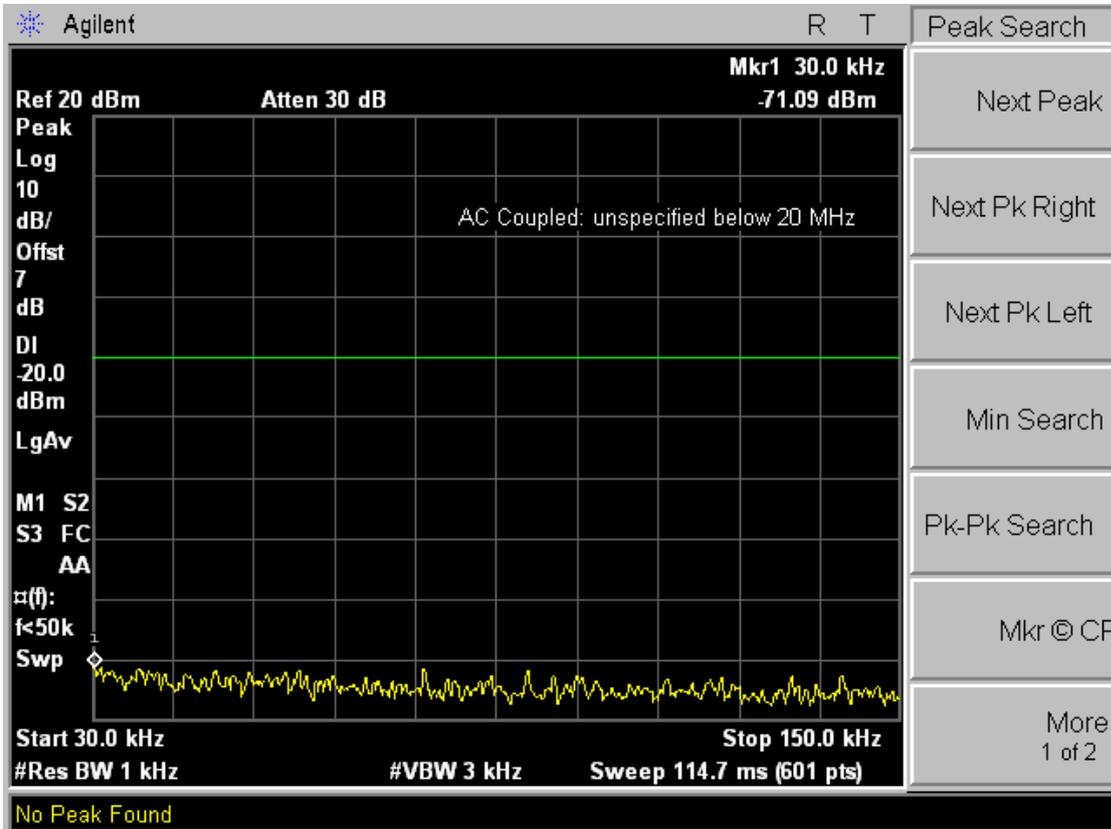


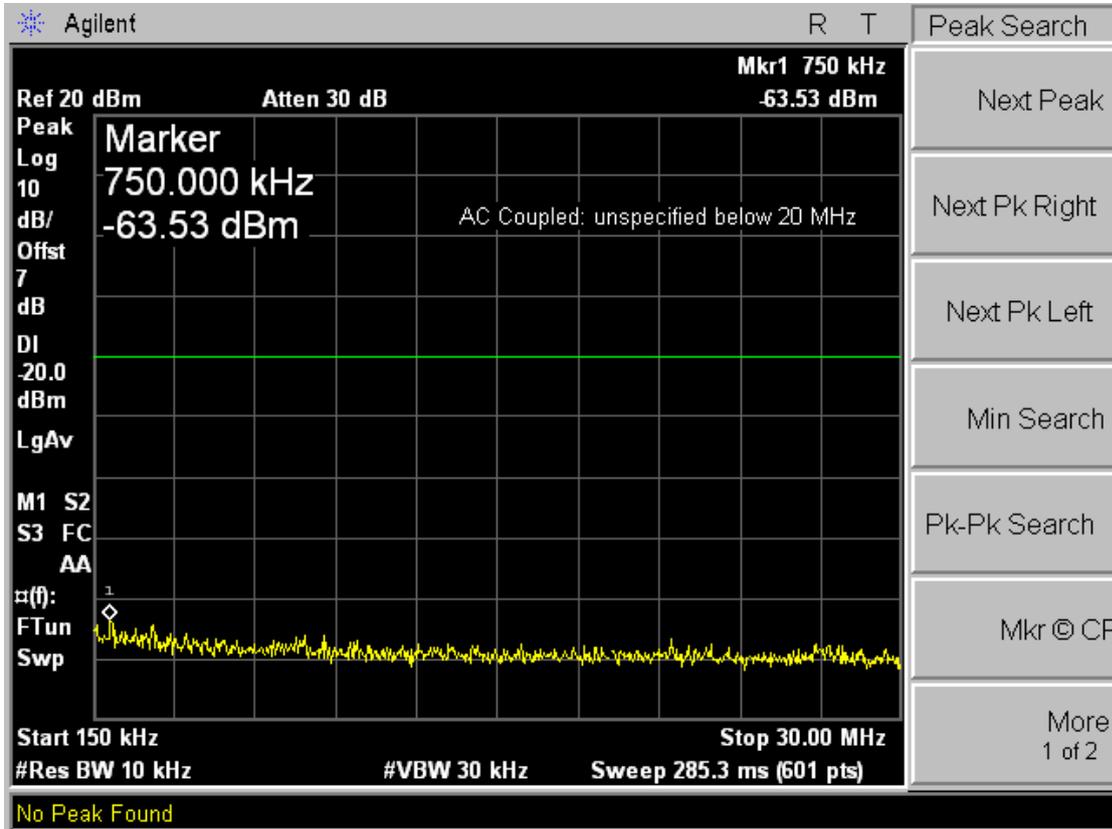


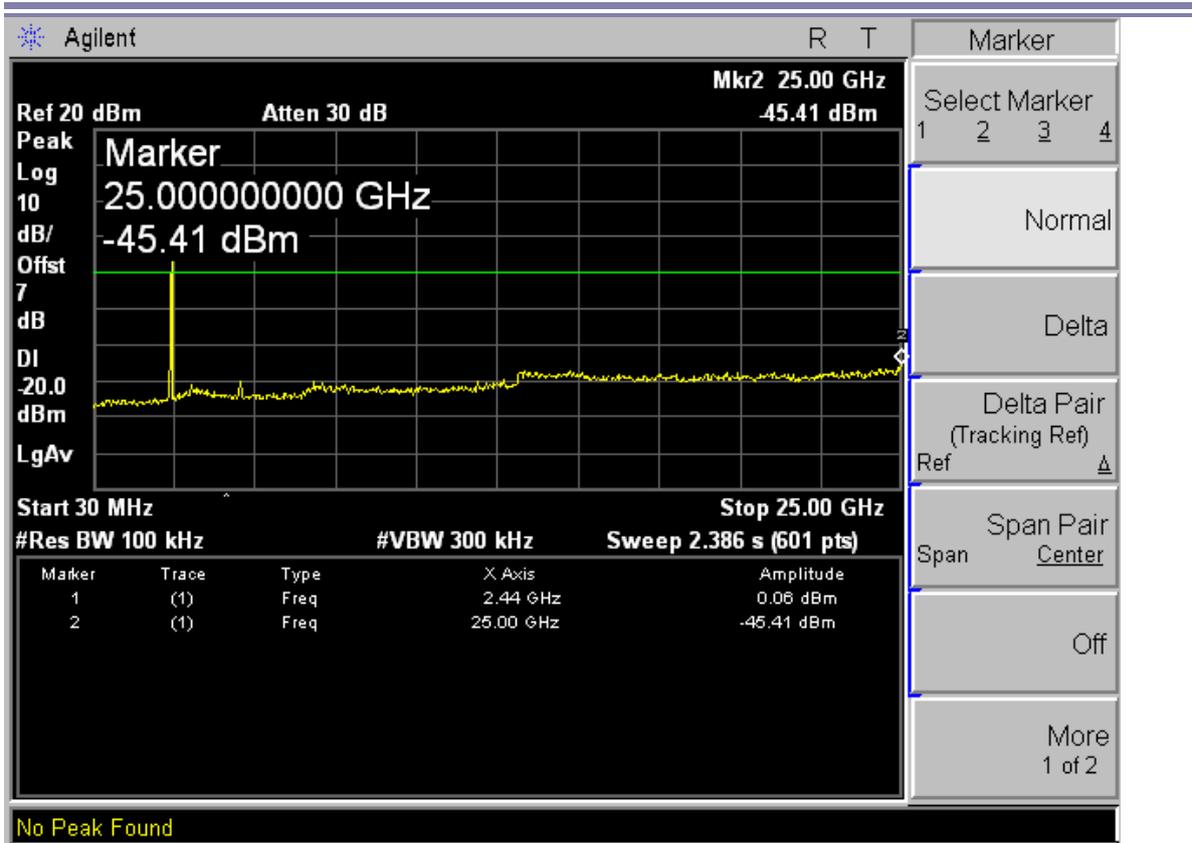




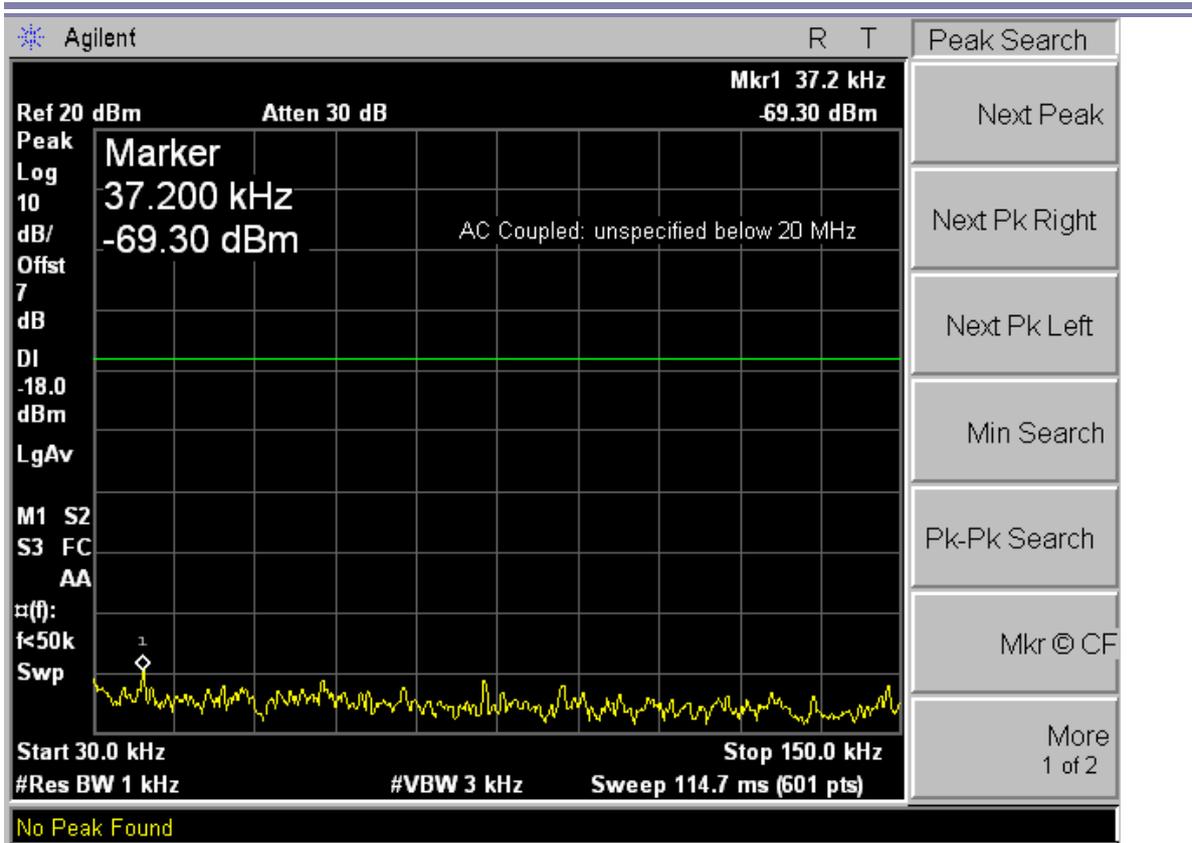
# Channel 40

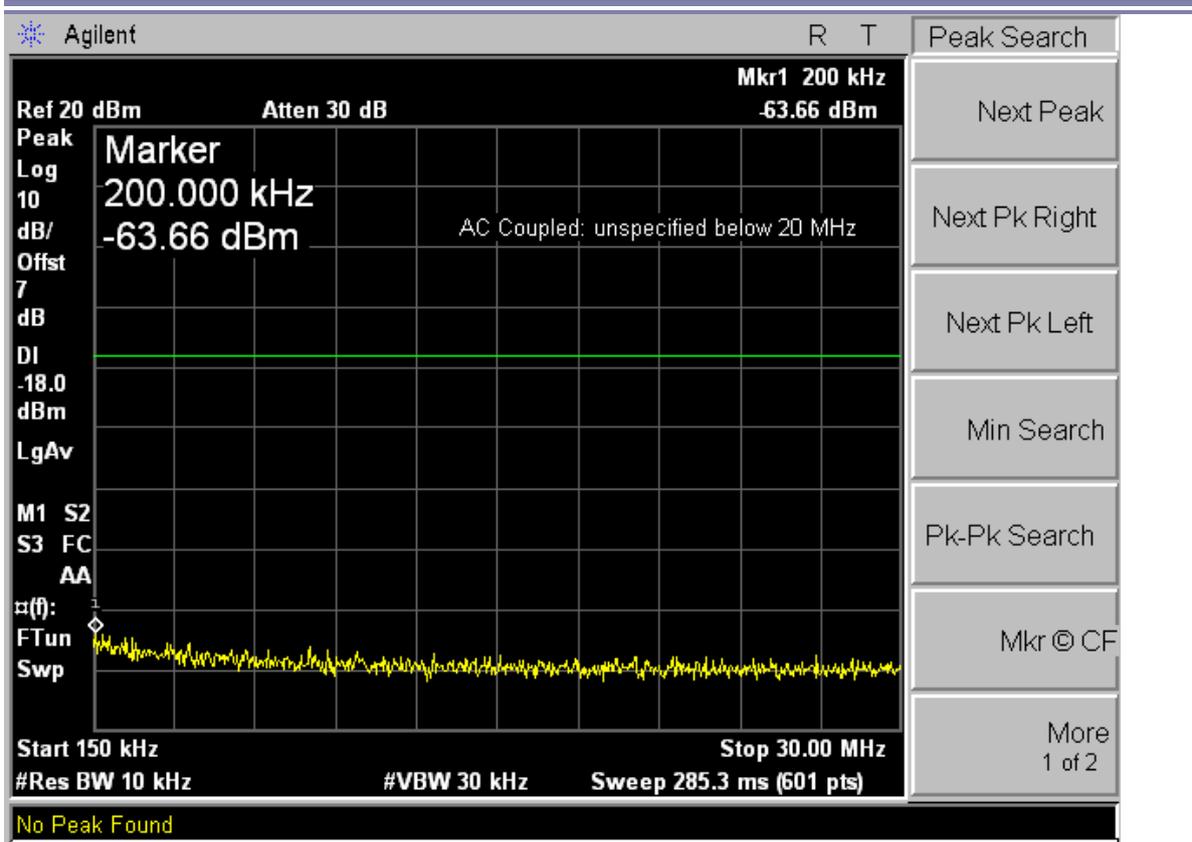


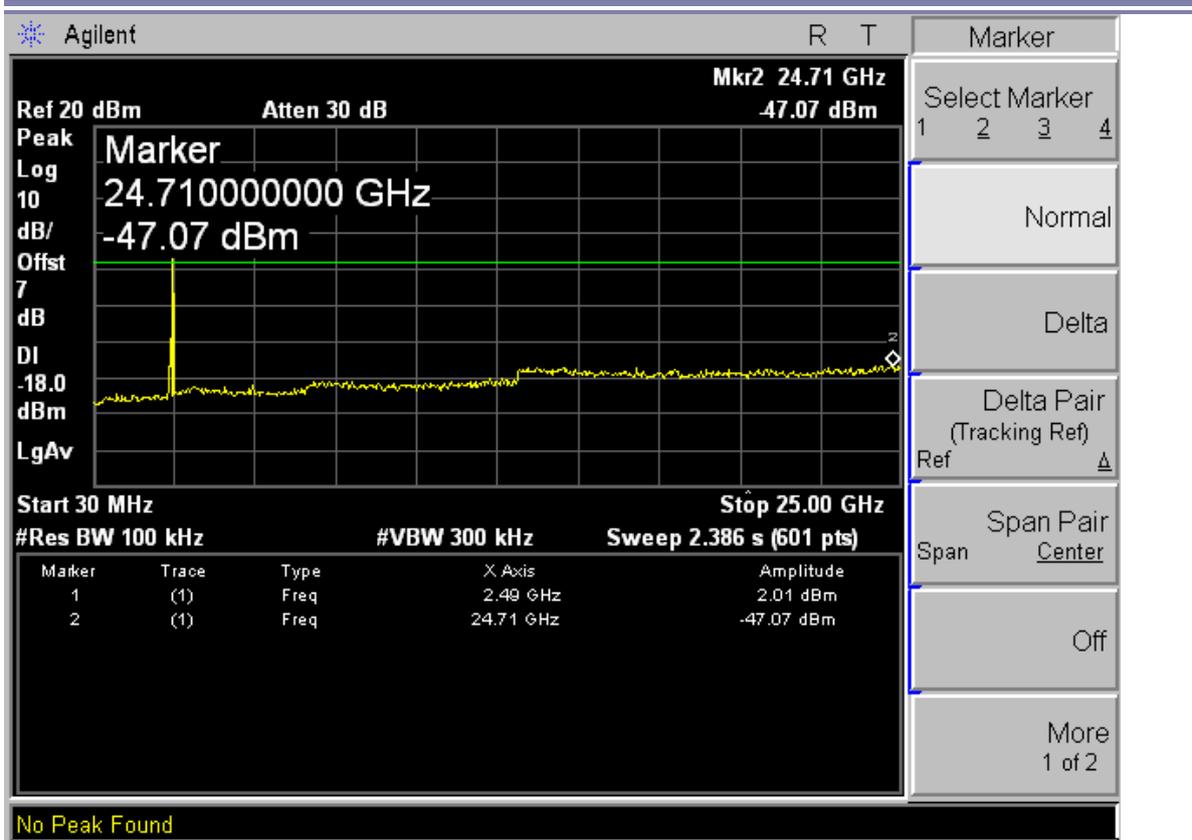




## Channel 78









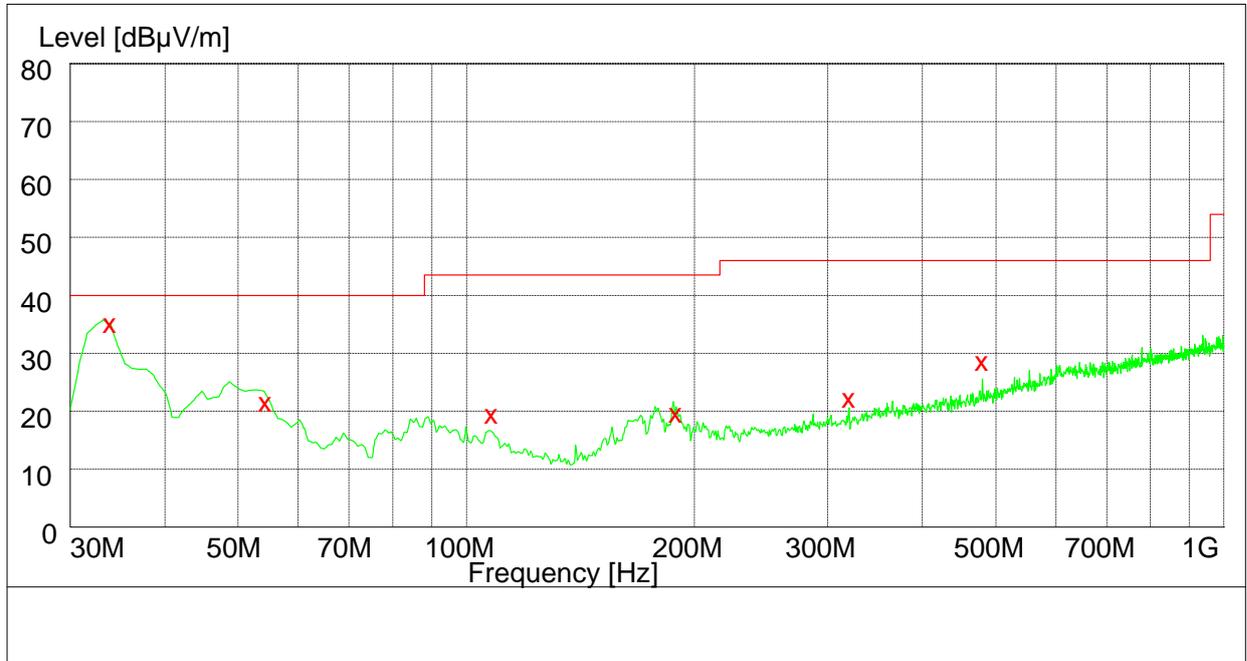
# Appendix H

## Radiated spurious emission

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



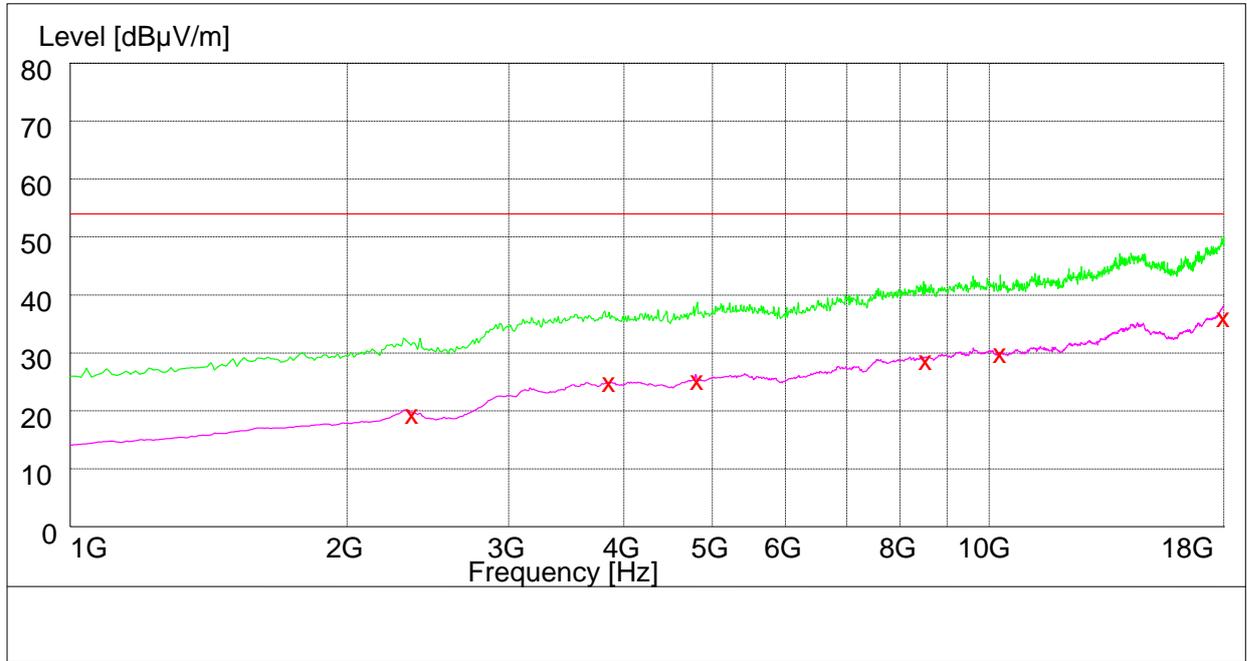
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
35.600000	34.90	11.7	40.0	5.1	297.0	333.00	HORIZONTAL
55.400000	21.30	12.7	40.0	18.7	252.0	125.00	HORIZONTAL
108.120000	19.60	12.4	43.5	23.9	157.0	135.00	VERTICAL
187.500000	19.30	11.6	43.5	24.2	246.0	146.00	HORIZONTAL
319.980000	21.80	16.0	46.0	24.2	160.0	19.00	VERTICAL
480.000000	28.40	19.6	46.0	17.6	137.0	213.00	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
2335.000000	19.70	-11.7	54.0	34.3	150.0	47.00	VERTICAL
3868.000000	24.60	-6.5	54.0	29.4	200.0	154.00	HORIZONTAL
4796.000000	25.00	-4.1	54.0	29.0	162.0	228.00	HORIZONTAL
8503.000000	28.90	3.0	54.0	25.1	145.0	227.00	VERTICAL
10286.000000	30.00	5.3	54.0	24.0	119.0	161.00	HORIZONTAL
17995.000000	37.50	17.3	54.0	16.5	157.0	174.00	VERTICAL



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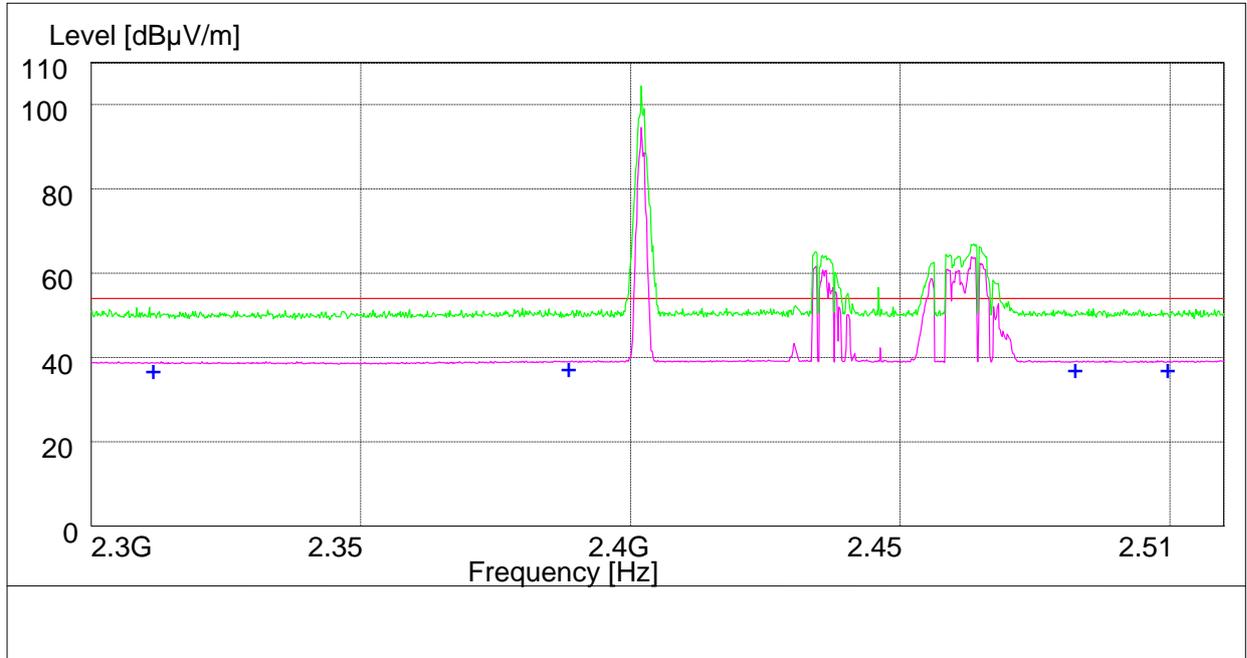
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz

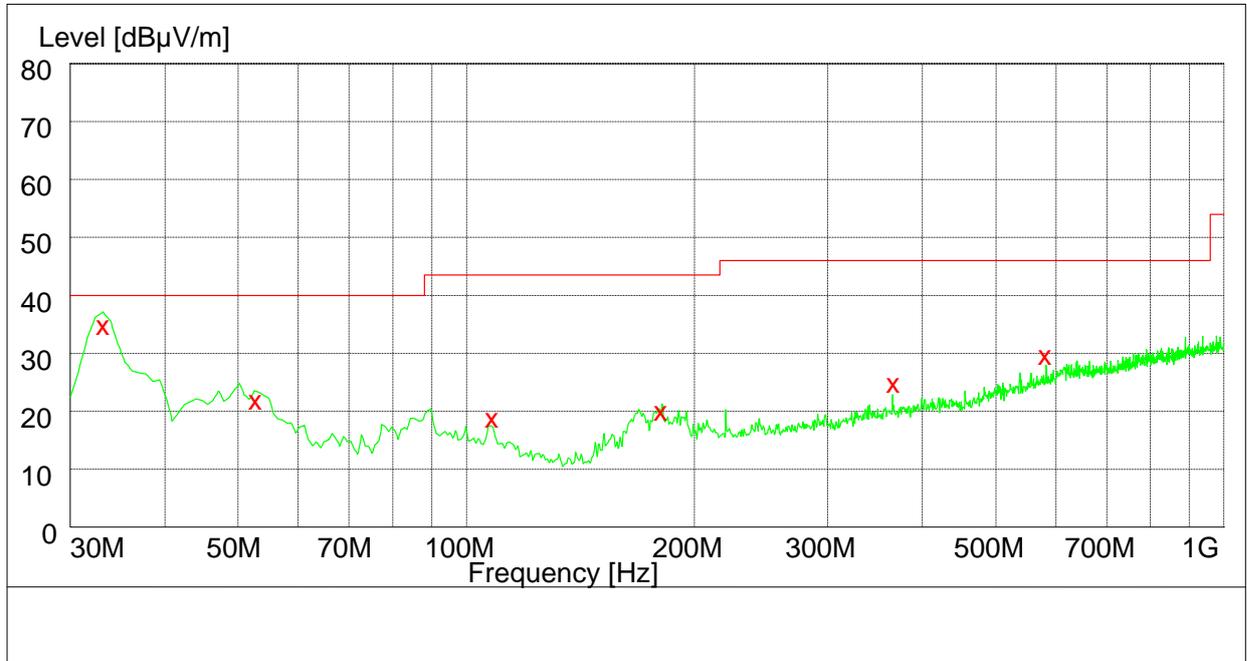


Note: The highest peak exceeds the limit line is carrier frequency.  
The bands from 2.4GHz to 2.4835GHz is out of the restricted bands.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.30	33.3	54.0	15.7	158.0	82.00	VERTICAL
2390.000000	38.50	33.5	54.0	15.5	159.0	173.00	HORIZONTAL
2483.500000	38.50	33.7	54.0	15.5	110.0	279.00	HORIZONTAL
2500.000000	38.40	33.8	54.0	15.6	188.0	41.00	VERTICAL



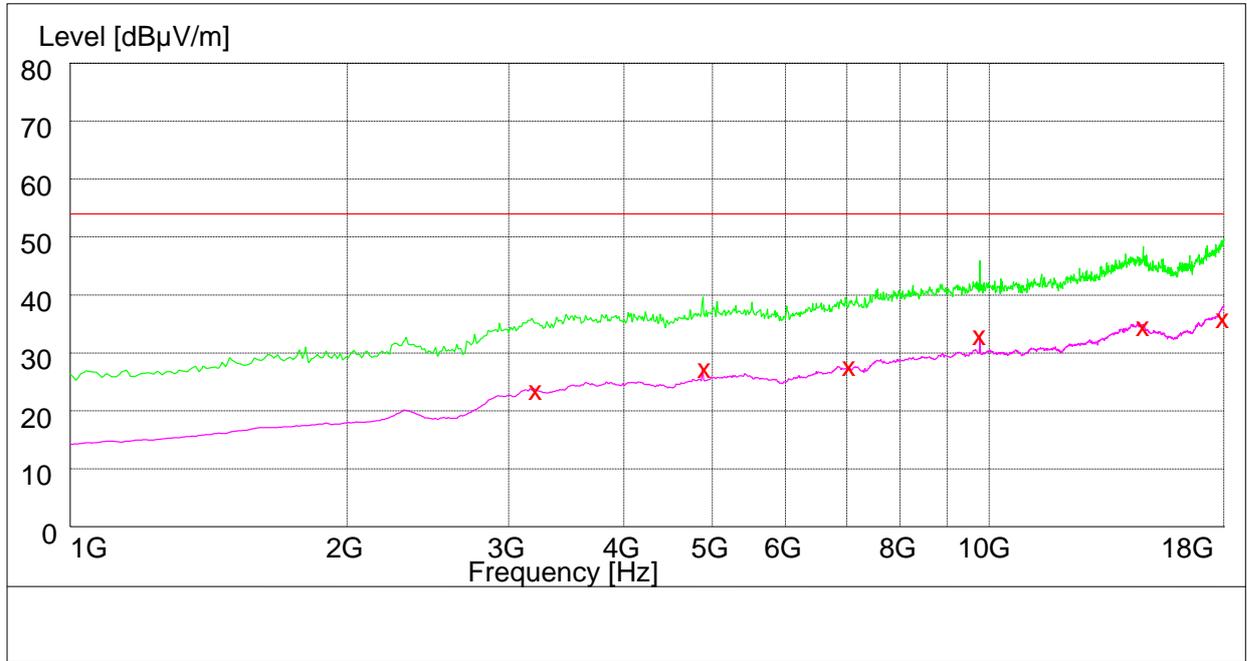
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
32.840000	34.90	11.7	40.0	5.1	288.0	314.00	VERTICAL
52.960000	21.50	12.8	40.0	18.5	229.0	78.00	HORIZONTAL
108.240000	19.00	12.4	43.5	24.5	130.0	79.00	HORIZONTAL
181.200000	19.80	11.0	43.5	23.7	126.0	187.00	VERTICAL
367.200000	25.40	17.4	46.0	20.6	253.0	126.00	VERTICAL
582.060000	29.60	22.1	46.0	16.4	101.0	187.00	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
3189.000000	23.20	-8.2	54.0	30.8	113.0	86.00	HORIZONTAL
4887.000000	27.80	-3.7	54.0	26.2	171.0	44.00	HORIZONTAL
7012.500000	27.30	0.0	54.0	26.7	125.0	321.00	HORIZONTAL
9769.000000	32.40	5.1	54.0	21.6	187.0	232.00	VERTICAL
14710.000000	34.50	11.7	54.0	19.5	152.0	279.00	VERTICAL
17987.500000	37.30	17.2	54.0	16.7	168.0	200.00	VERTICAL



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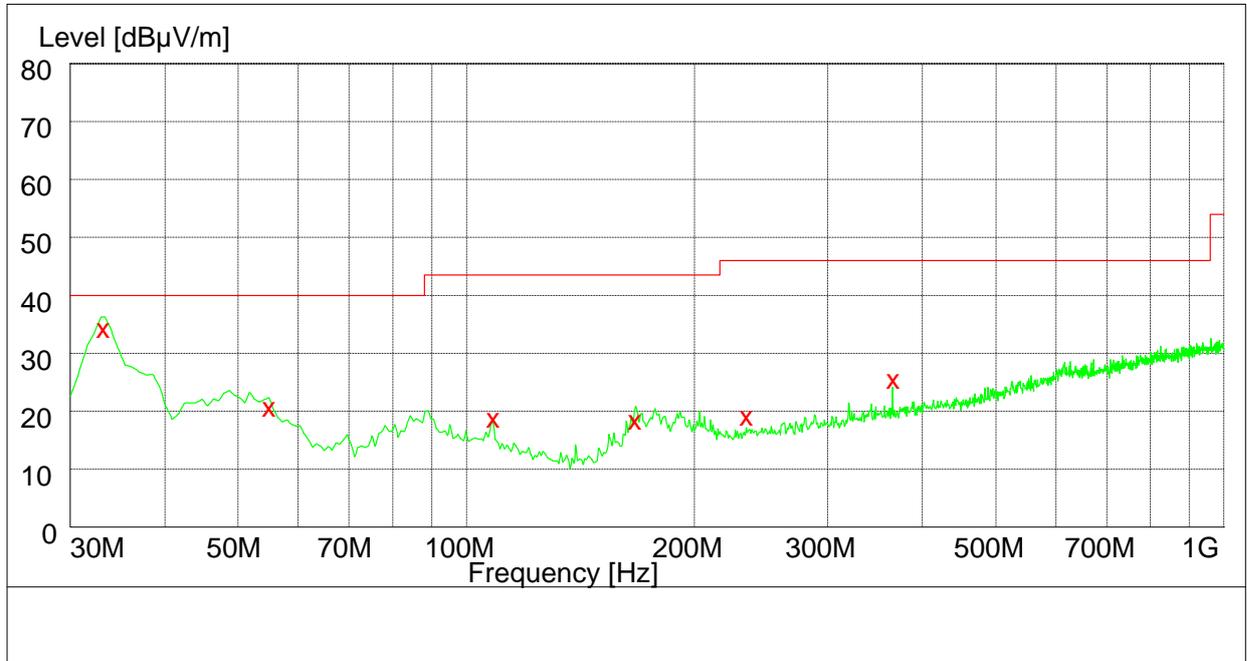
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# 18GHz to 26GHz

Note: No peak found in pre- test.



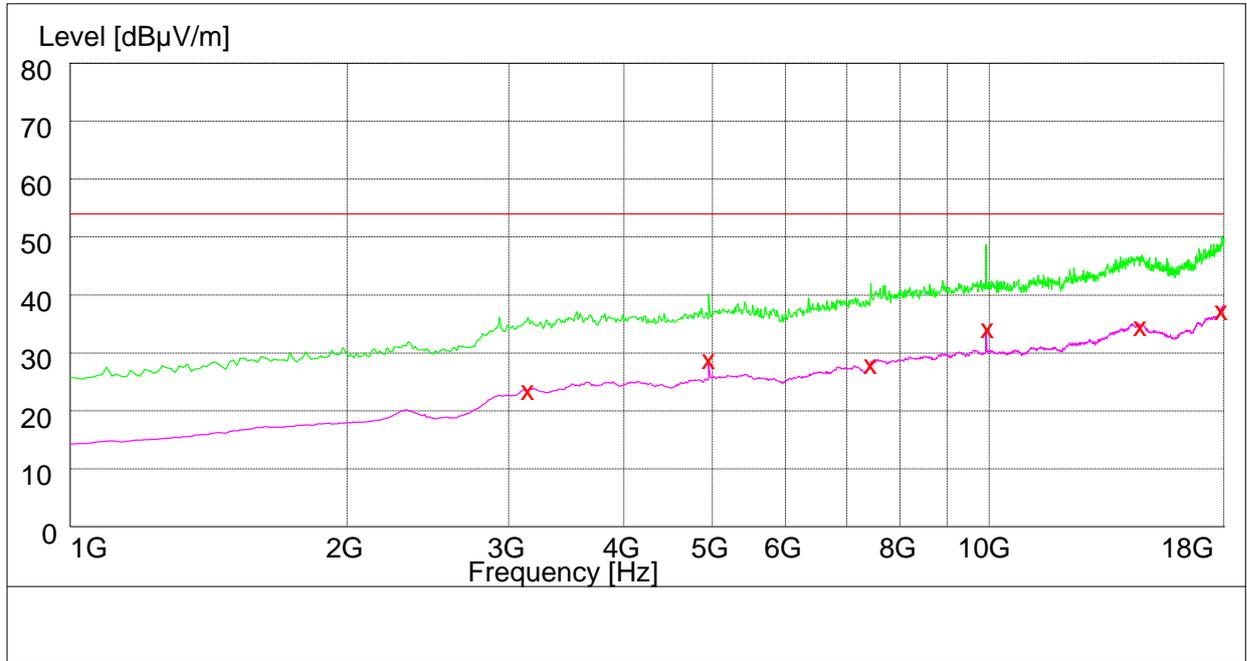
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.050000	34.20	11.7	40.0	5.8	142.0	205.00	HORIZONTAL
55.200000	20.80	12.7	40.0	19.2	244.0	176.00	HORIZONTAL
109.000000	19.00	12.4	43.5	25.0	250.0	169.00	HORIZONTAL
169.300000	18.70	9.9	43.5	24.8	176.0	138.00	VERTICAL
234.720000	19.40	13.8	46.0	24.6	152.0	157.00	HORIZONTAL
368.100000	26.10	17.5	46.0	19.9	198.0	56.00	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
3157.000000	23.50	-8.5	54.0	30.5	109.0	278.00	HORIZONTAL
4960.000000	28.80	-3.8	54.0	25.2	127.0	170.00	HORIZONTAL
7437.500000	27.60	1.2	54.0	26.4	172.0	60.00	VERTICAL
9976.000000	34.30	5.3	54.0	19.7	182.0	300.00	HORIZONTAL
14820.000000	35.10	12.3	54.0	18.9	113.0	211.00	VERTICAL
17932.000000	37.20	16.7	54.0	16.8	102.0	223.00	VERTICAL



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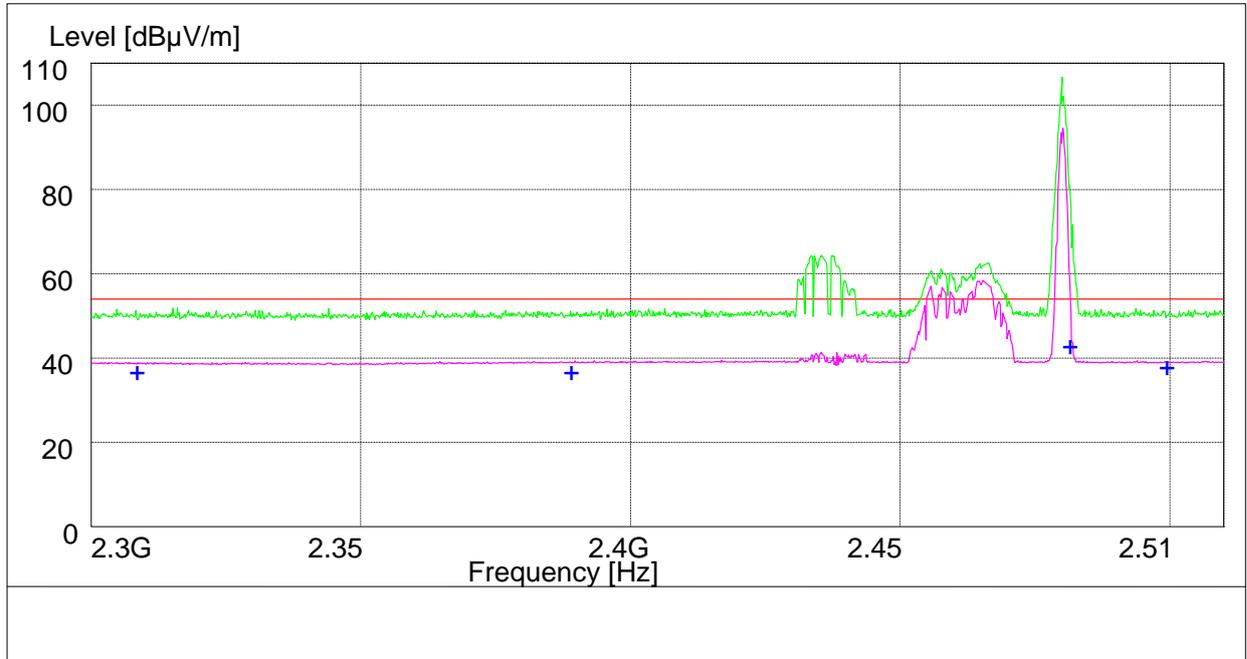
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz



Note: The highest peak exceeds the limit line is carrier frequency.  
The bands from 2.4GHz to 2.4835GHz is out of the restricted bands.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.30	33.3	54	15.7	197.0	262.00	HORIZONTAL
2390.000000	38.50	33.5	54	15.5	159.0	33.00	HORIZONTAL
2483.500000	44.70	33.7	54	9.3	171.0	43.00	VERTICAL
2500.000000	38.70	33.8	54	15.3	123.0	3.00	HORIZONTAL



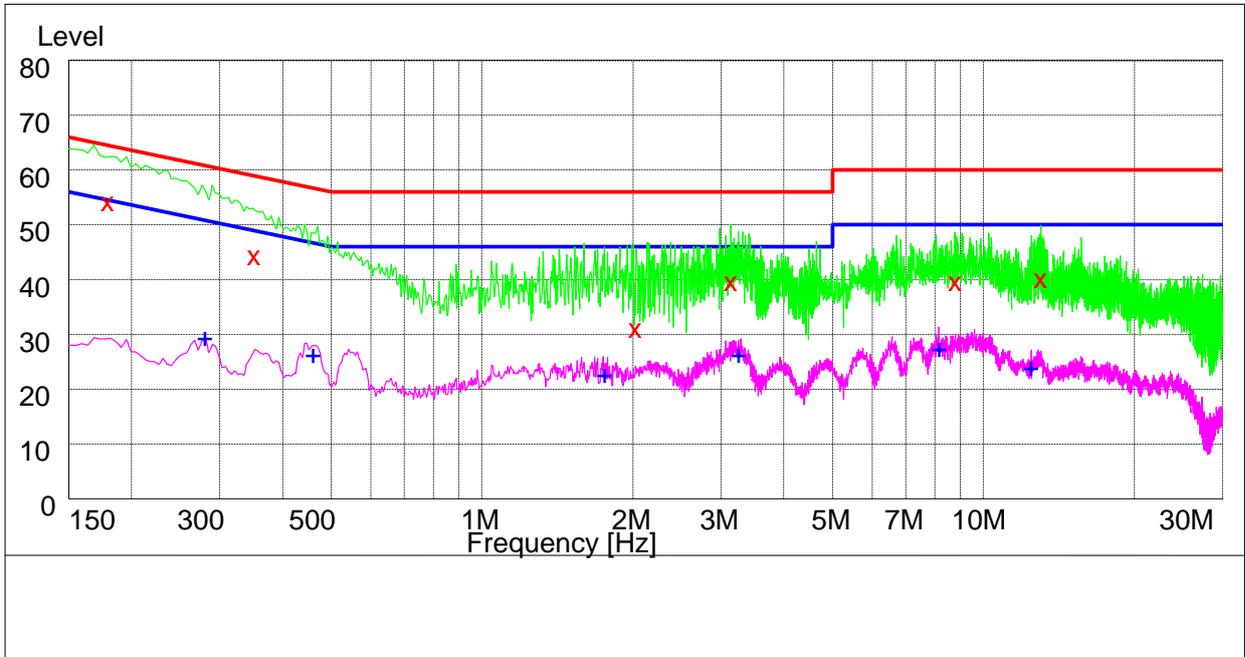
# Appendix I

## 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
0.180000	55.60	10.1	65	8.9	L1	FLO
0.352000	45.70	10.0	59	13.2	L1	FLO
2.030000	31.00	10.1	56	25.0	L1	FLO
3.148000	39.90	10.2	56	16.1	N	FLO
8.810000	39.80	10.3	60	20.2	N	FLO
13.048000	40.10	10.3	60	19.9	N	FLO

## MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.280000	29.70	10.0	51	21.1	L1	FLO
0.460000	27.70	10.1	47	19.0	L1	FLO
1.754000	24.10	10.1	46	21.9	N	FLO
3.246000	27.70	10.2	46	18.3	N	FLO
8.174000	28.80	10.2	50	21.2	N	FLO
12.460000	24.30	10.3	50	25.7	N	FLO