



# Appendix A

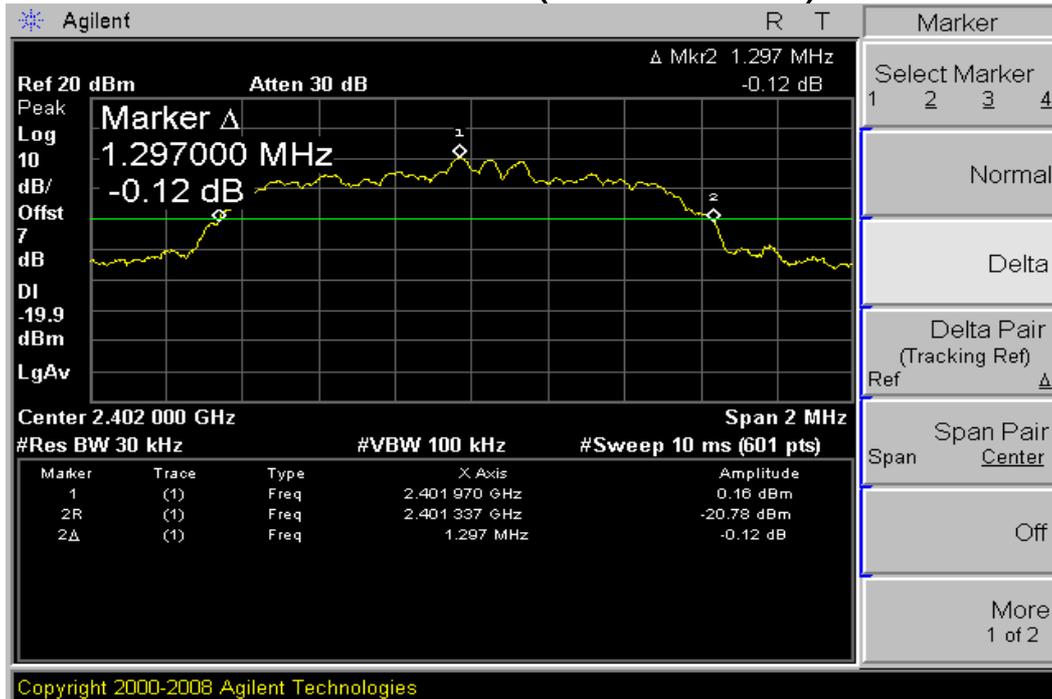
## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)



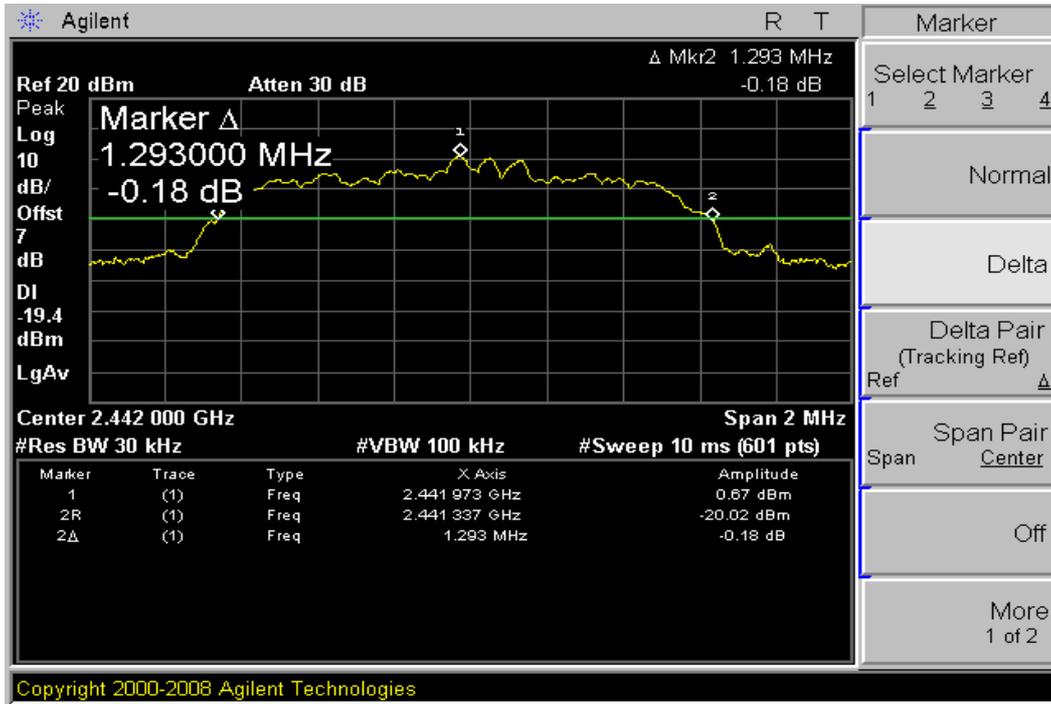
# Modulation: $\pi/4$ -DQPSK

## Channel 0 (2402MHz)



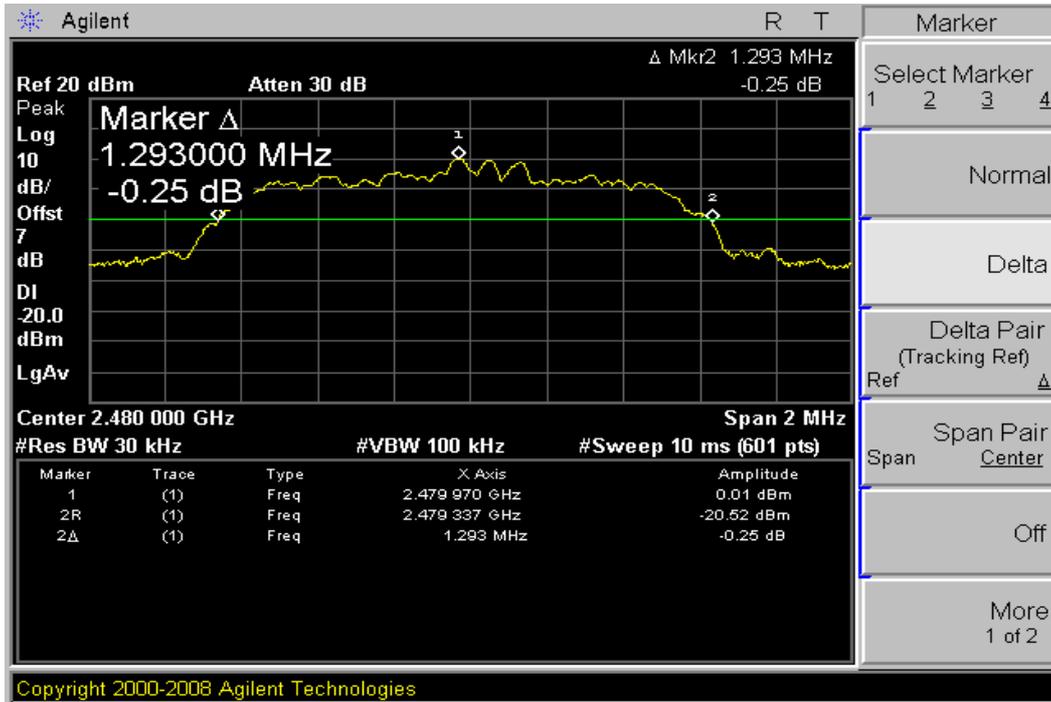


## Channel 40 (2442MHz)



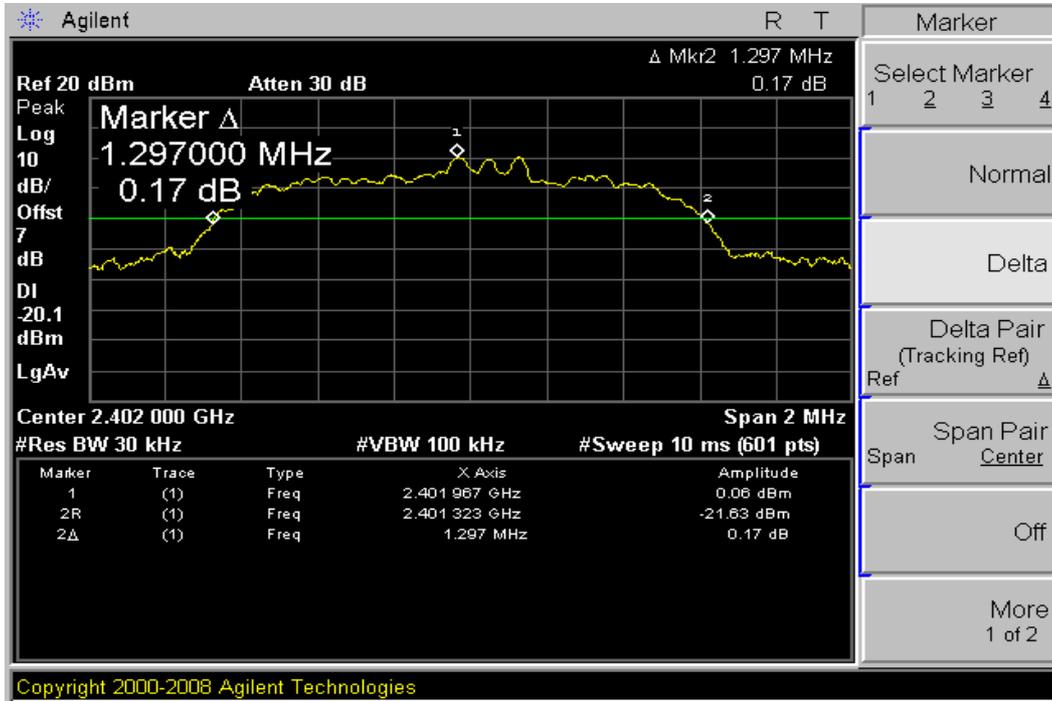


## Channel 78 (2480MHz)

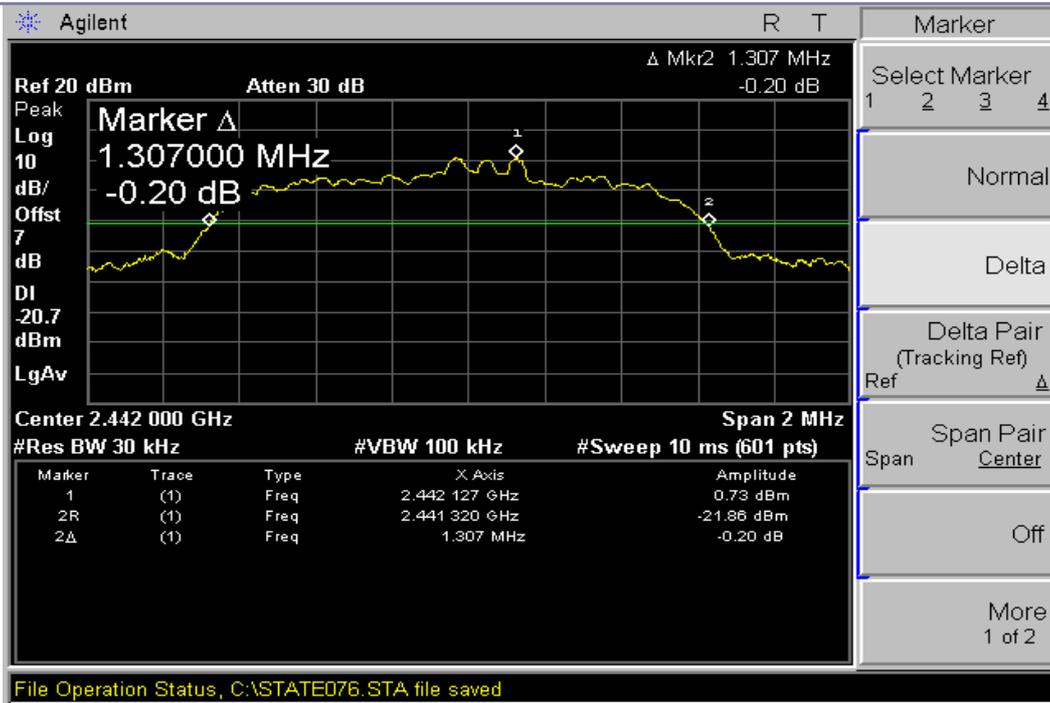


Modulation: 8DPSK

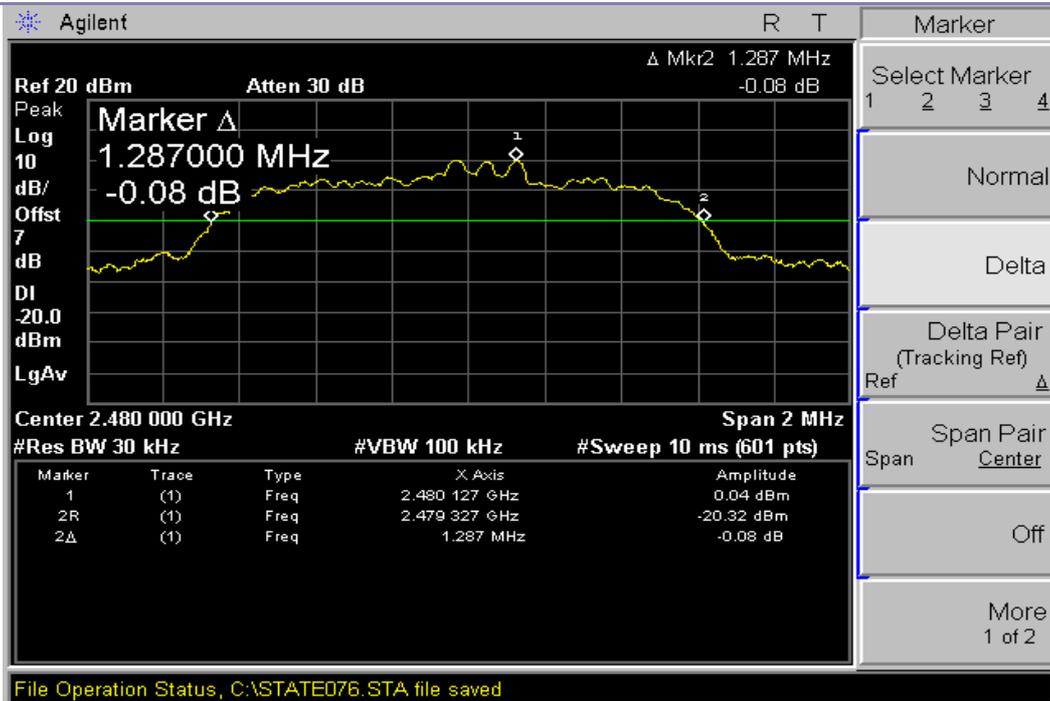
Channel 0 (2402MHz)



## Channel 40 (2442MHz)



## Channel 78 (2480MHz)





## **Appendix B**

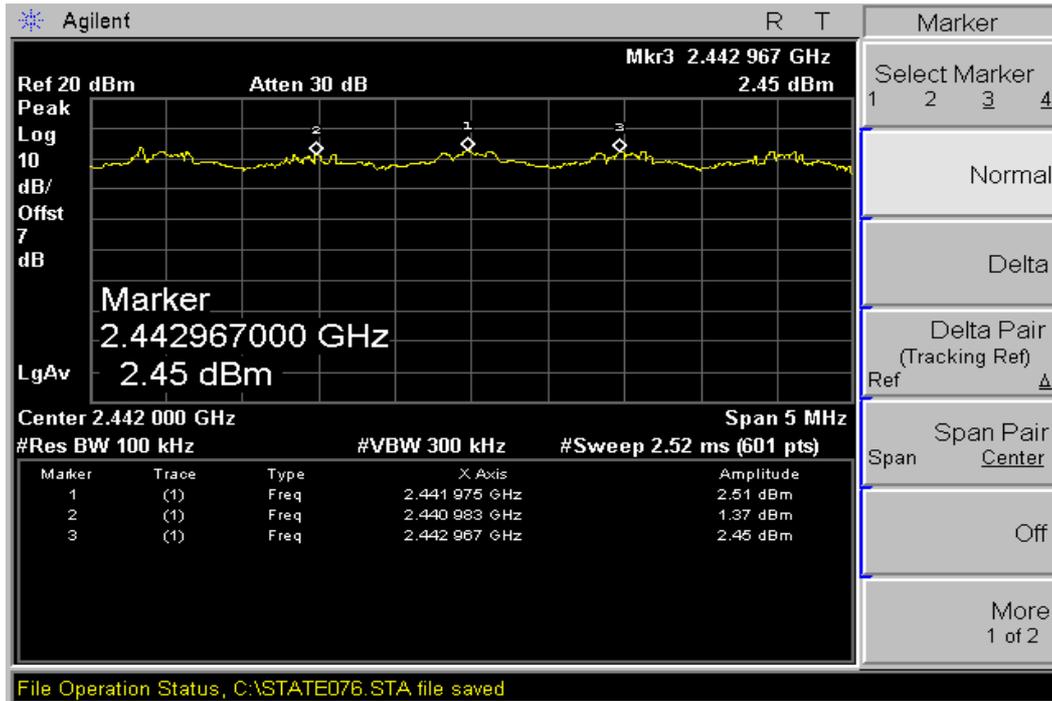
# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



# Modulation: $\pi/4$ -DQPSK

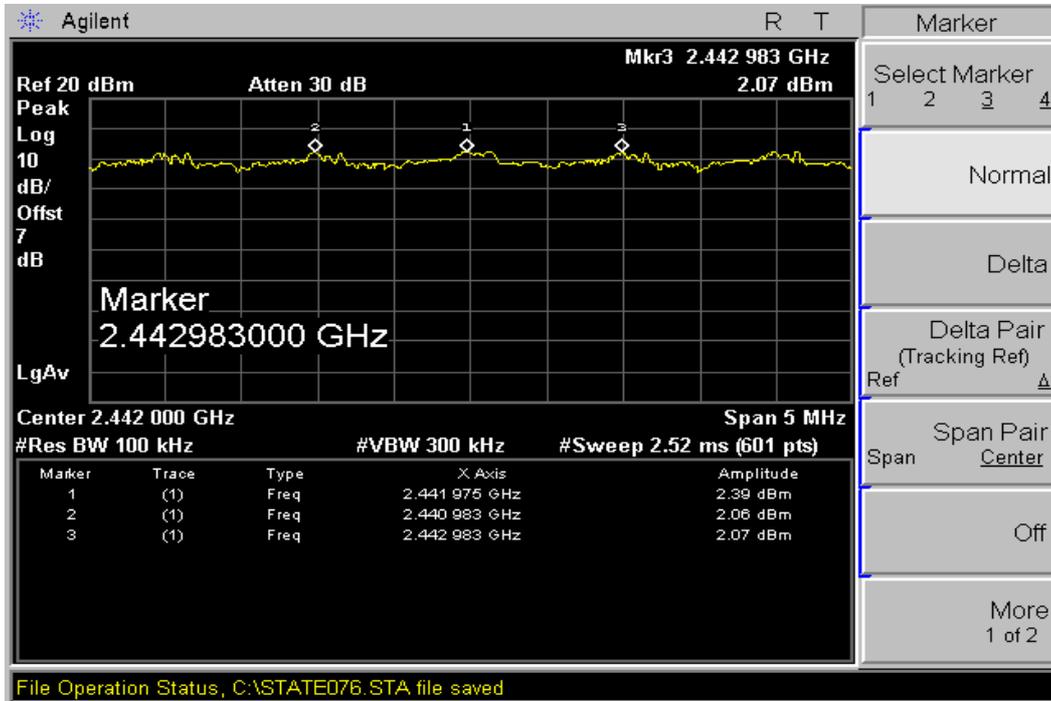
## Centred at Channel 40



# Modulation: 8DPSK



# Centred at Channel 40





## Appendix C

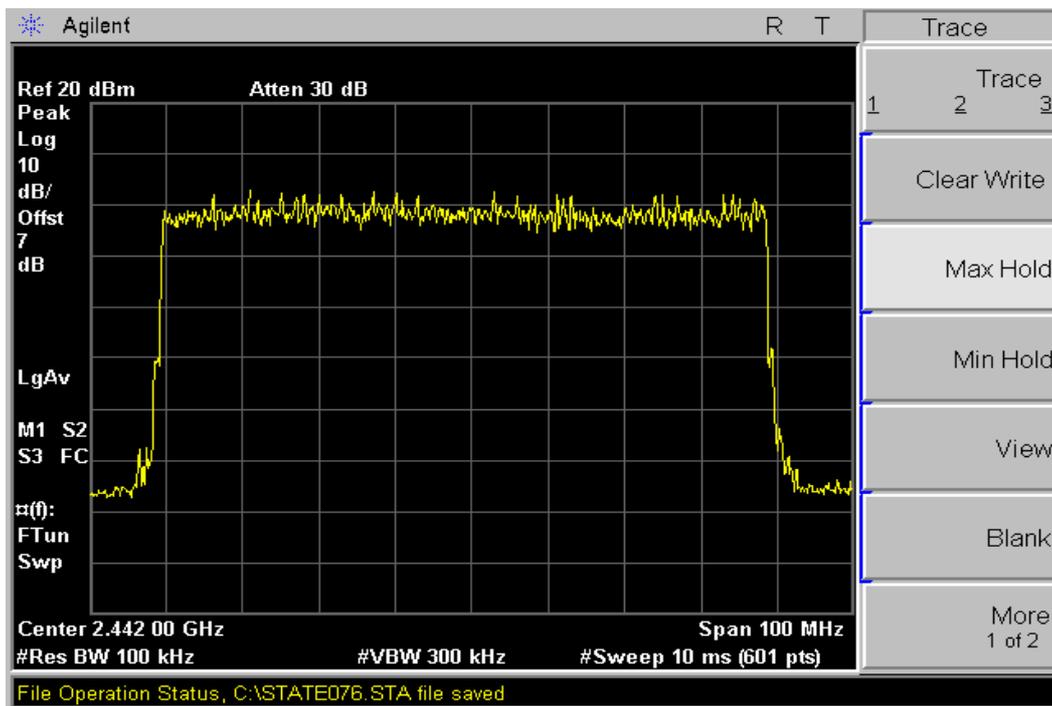
# Number of hopping channel

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

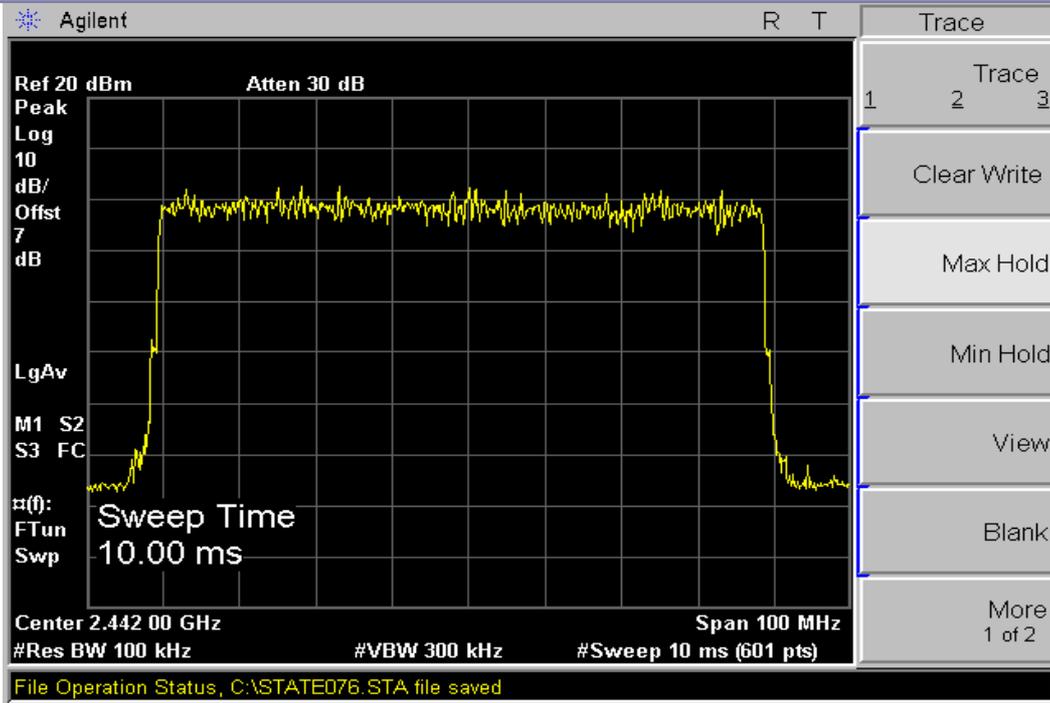


# Modulation: $\pi/4$ -DQPSK

## Total hopping channels = 79



# Modulation: 8DPSK





# Appendix D

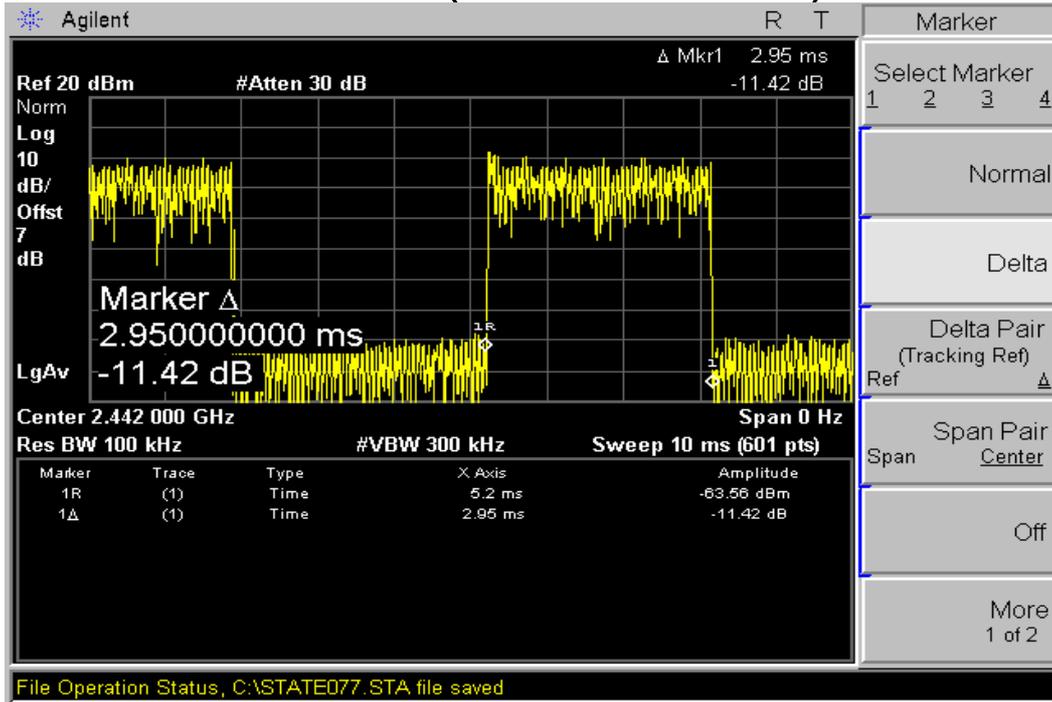
## Time of occupancy

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



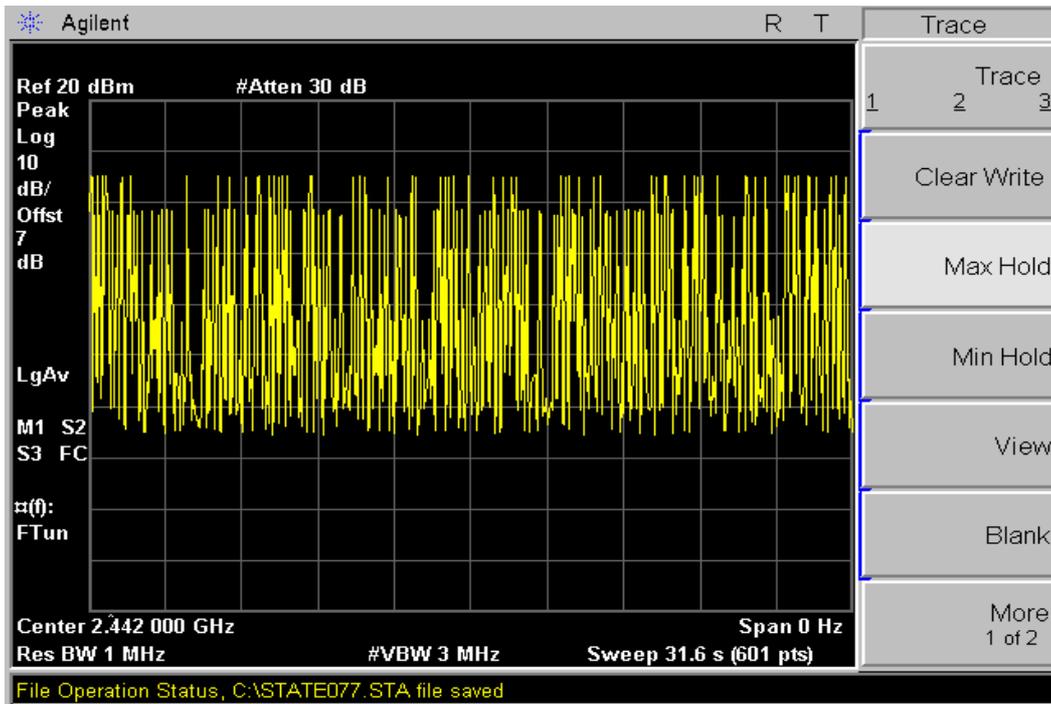
# Modulation: $\pi/4$ -DQPSK

## A burst (One time slot)





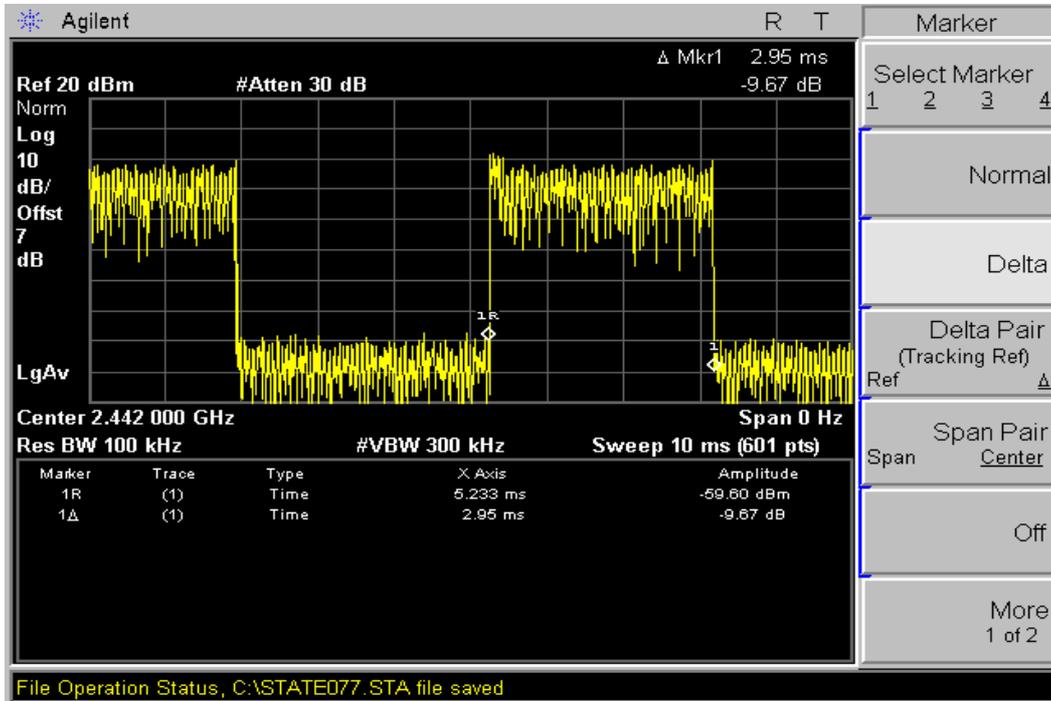
## A period (Less than 106.7 burst)



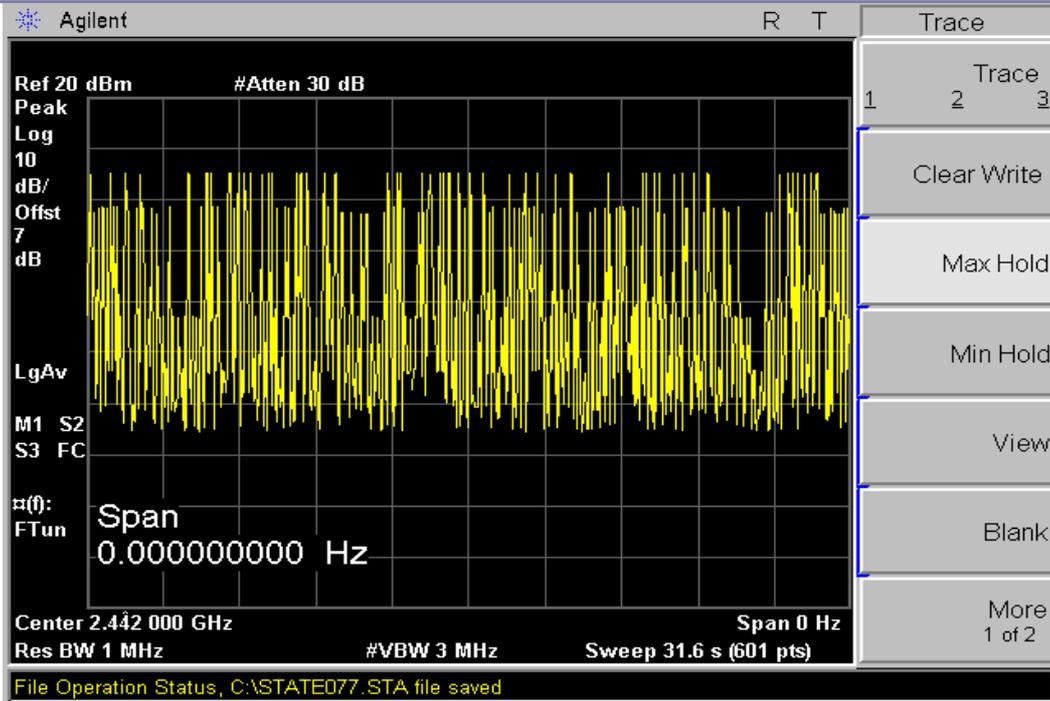
Modulation: 8DPSK



## A burst (One time slot)



## A period (Less than 106.7 burst)





# Appendix E

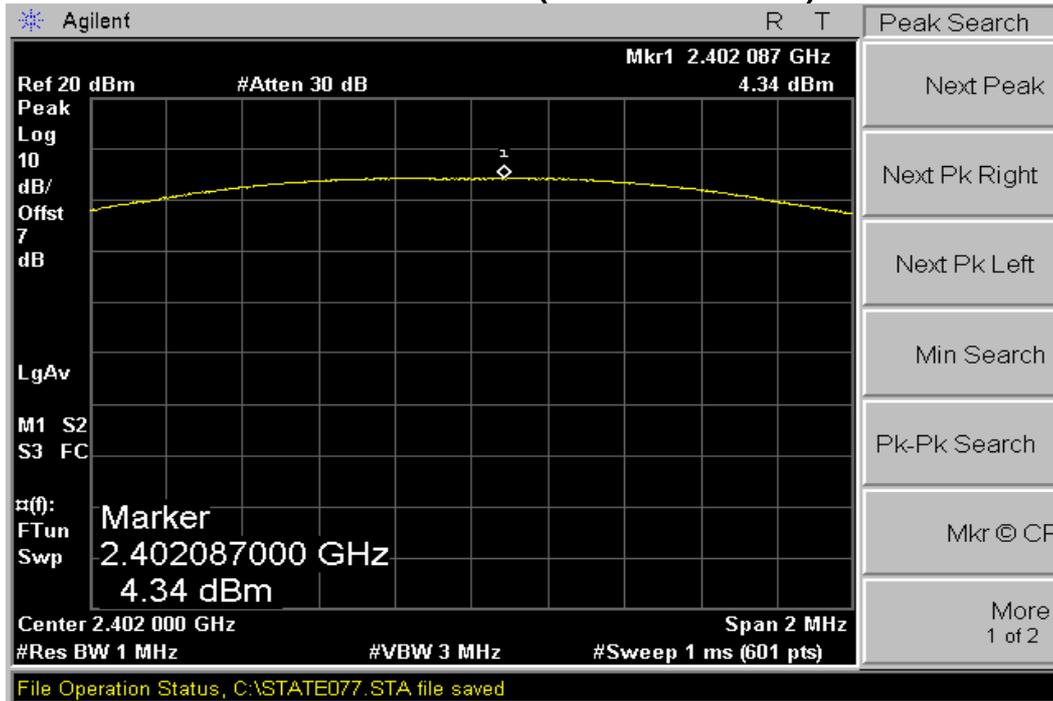
## Peak output power

According to FCC Part 15.247 (b) (1)



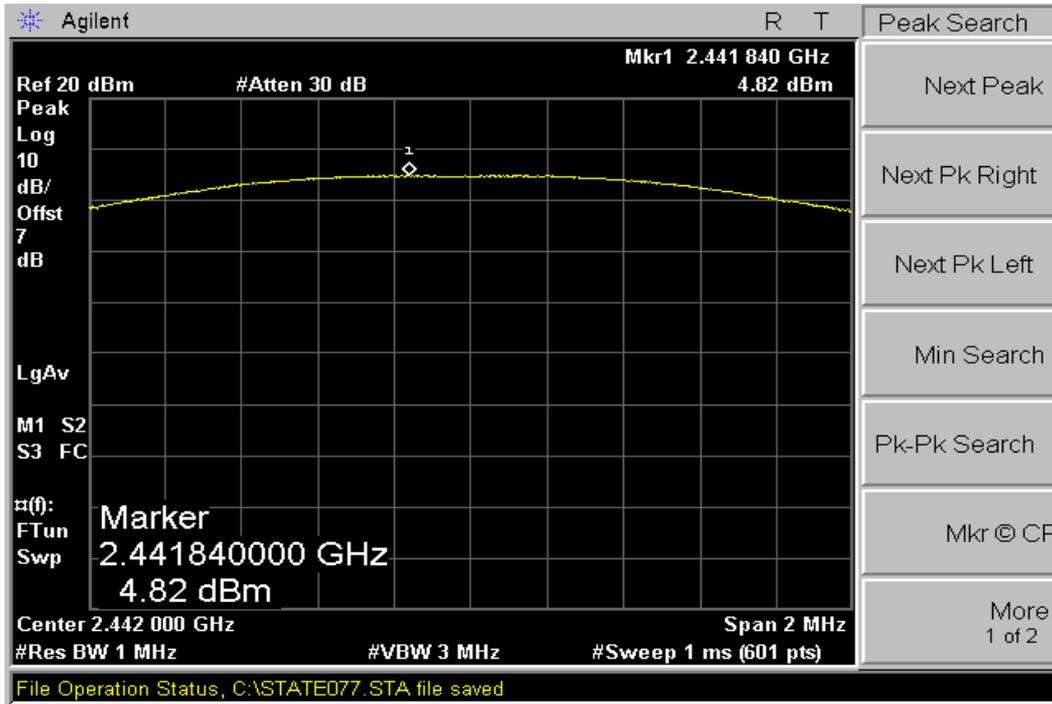
# Modulation: $\pi/4$ -DQPSK)

## Channel 0 (2402MHz)



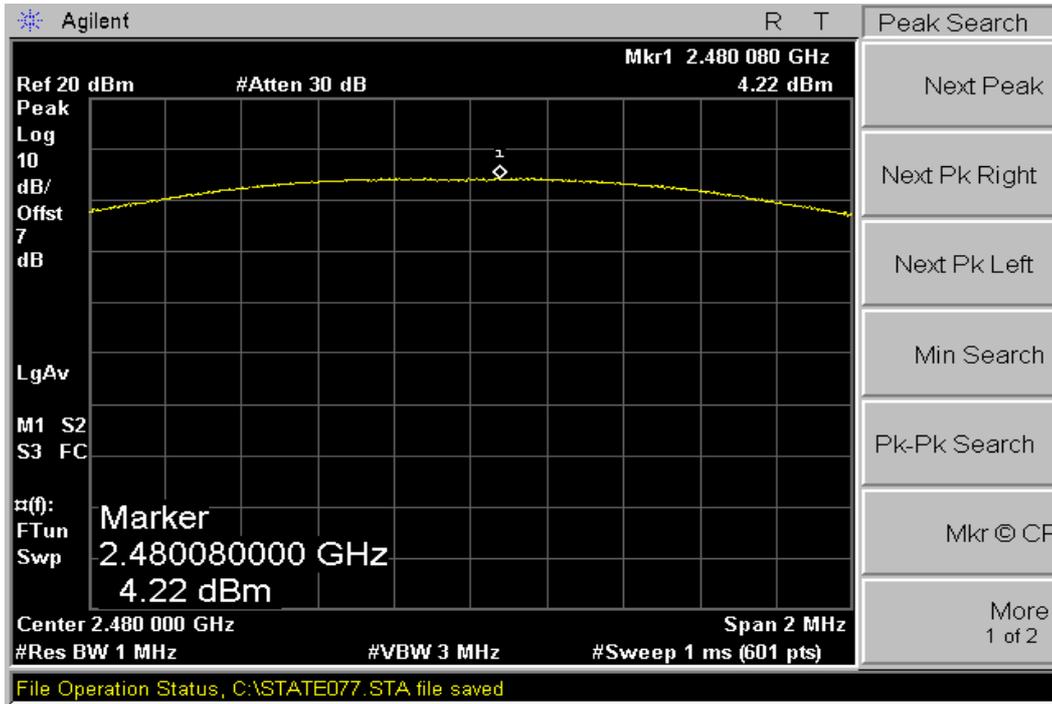


# Channel 40 (2442MHz)





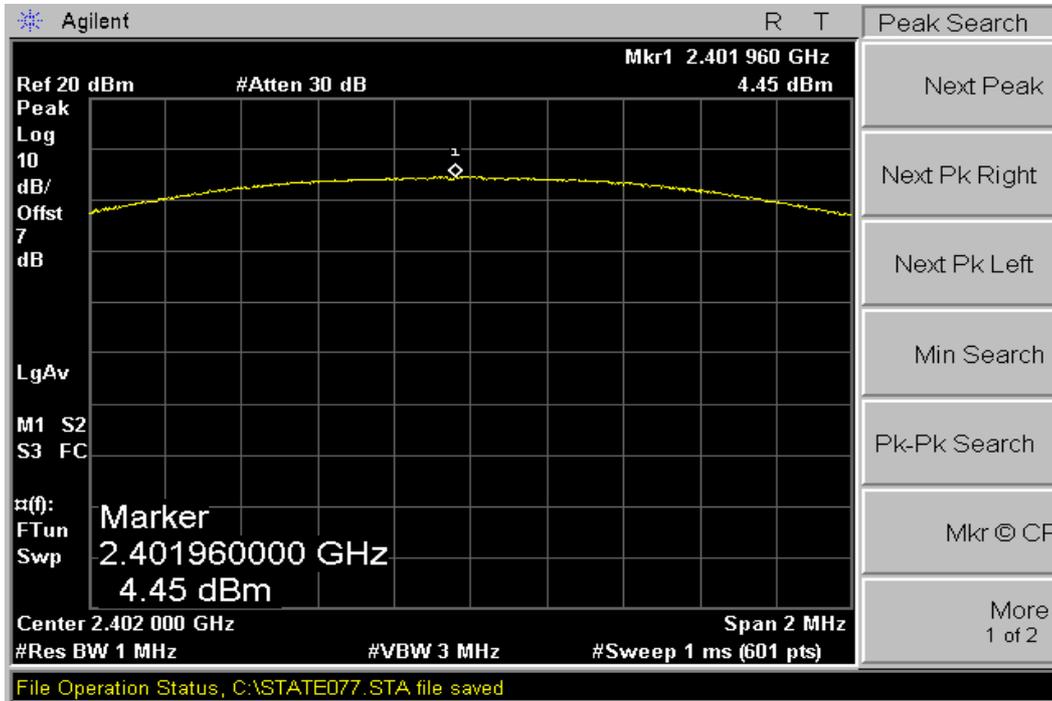
## Channel 78 (2480MHz)



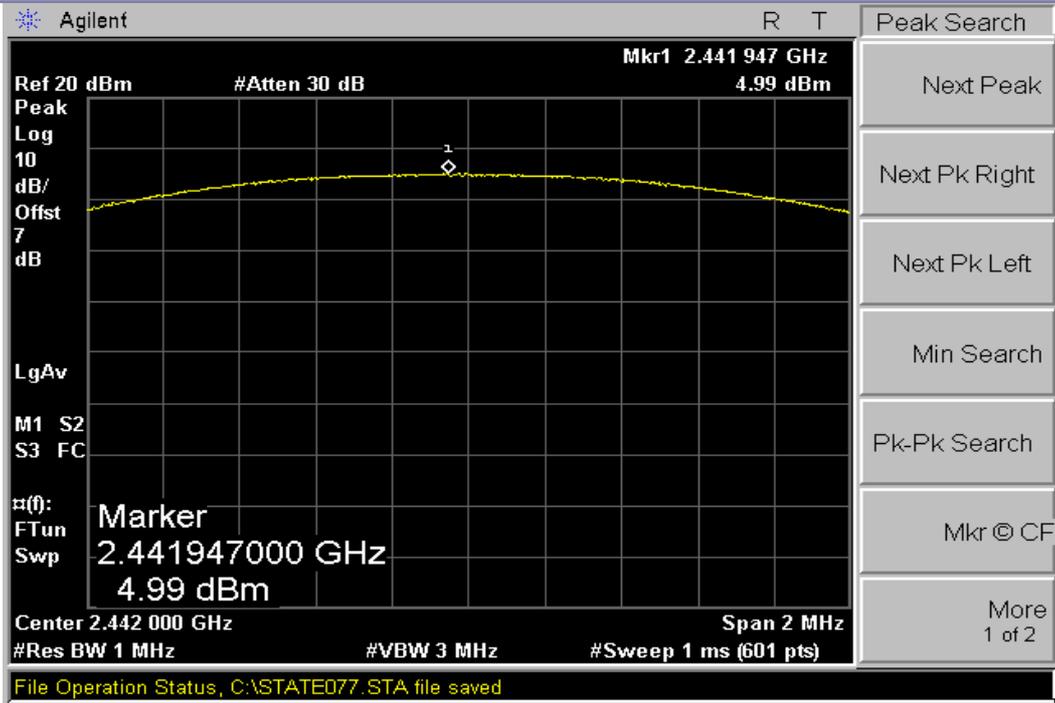
## Modulation: 8DPSK)



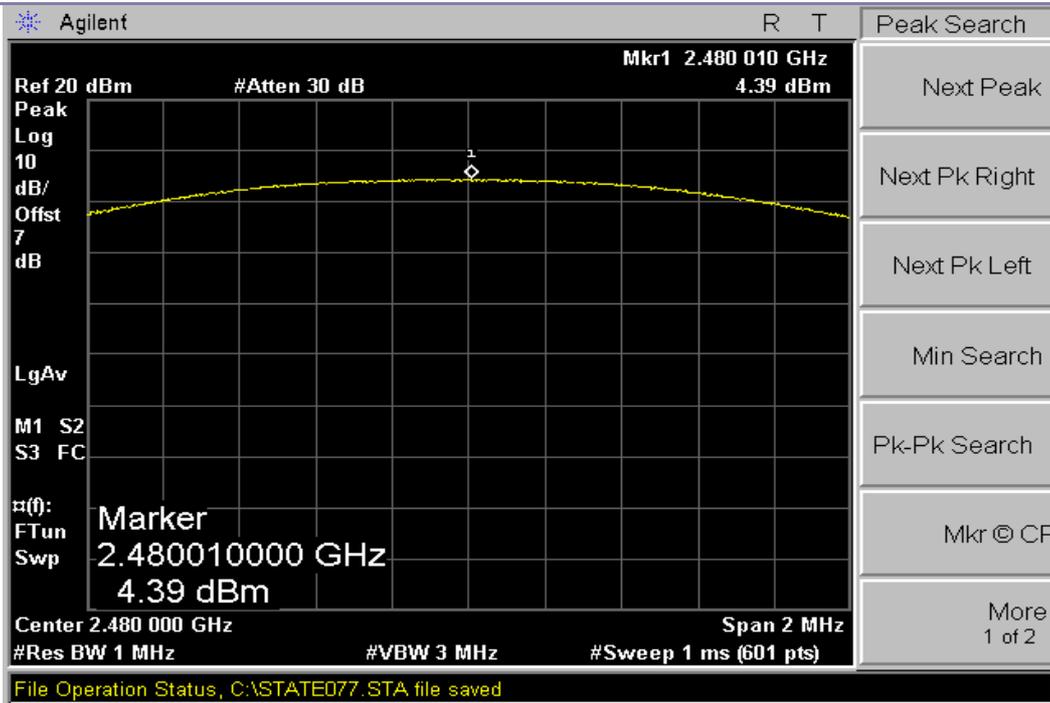
## Channel 0 (2402MHz)



## Channel 40 (2442MHz)



## Channel 78 (2480MHz)





# Appendix F

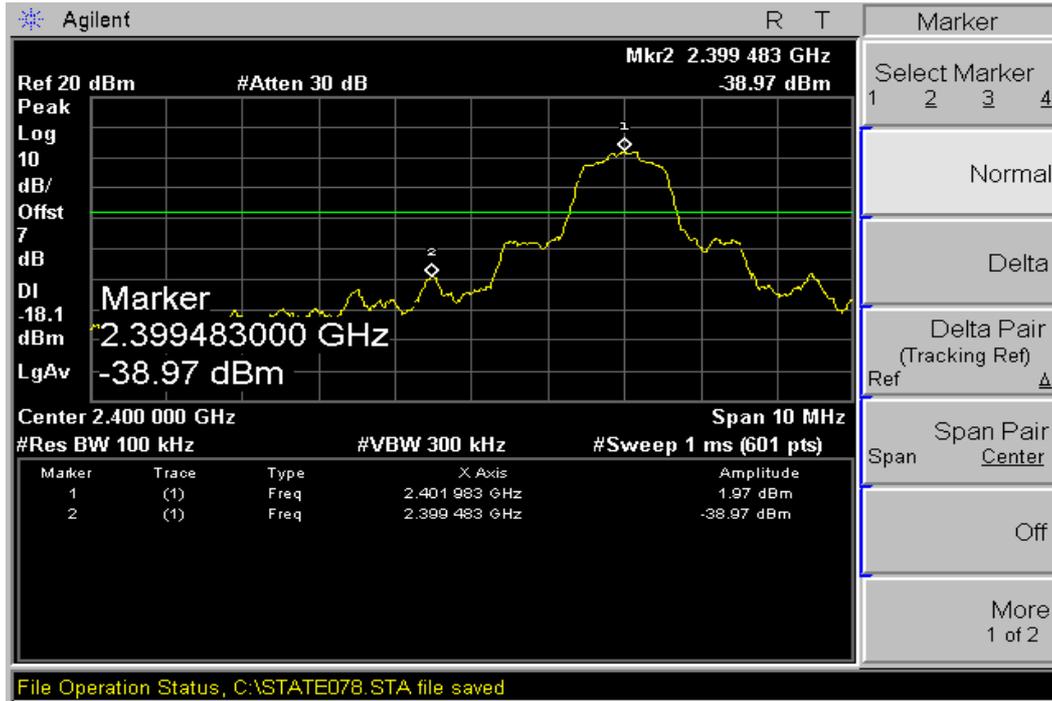
## Band edge spurious emission

According to FCC Part 15.247 (d)



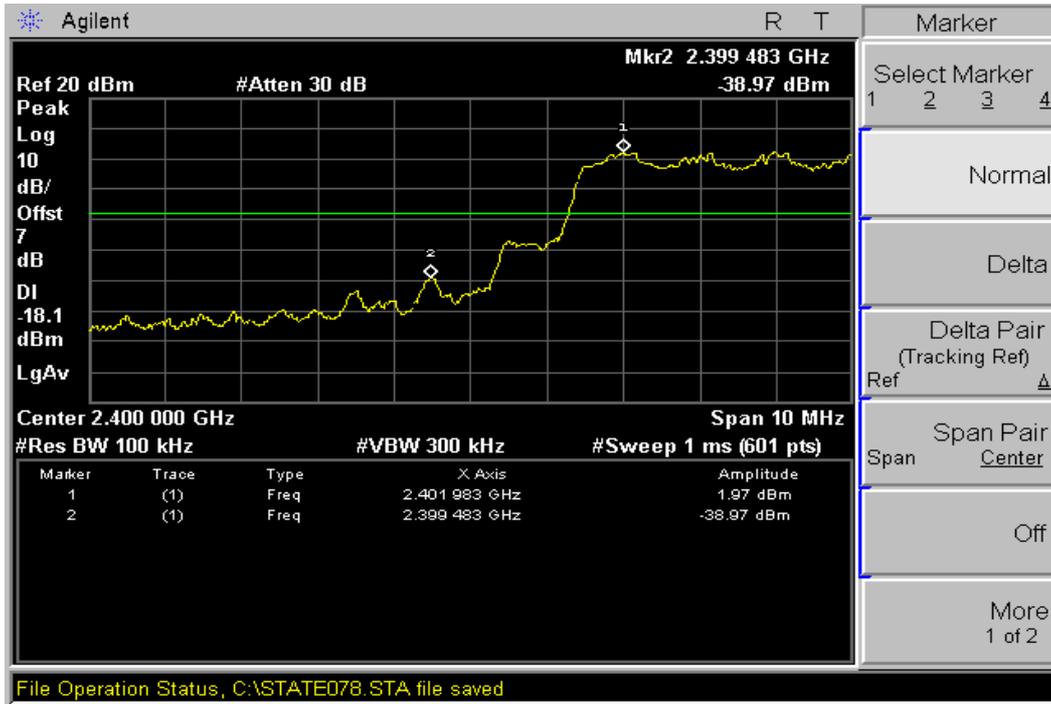
# (Modulation: $\pi/4$ -DQPSK)

## Low edge (Channel 0, no hopping)



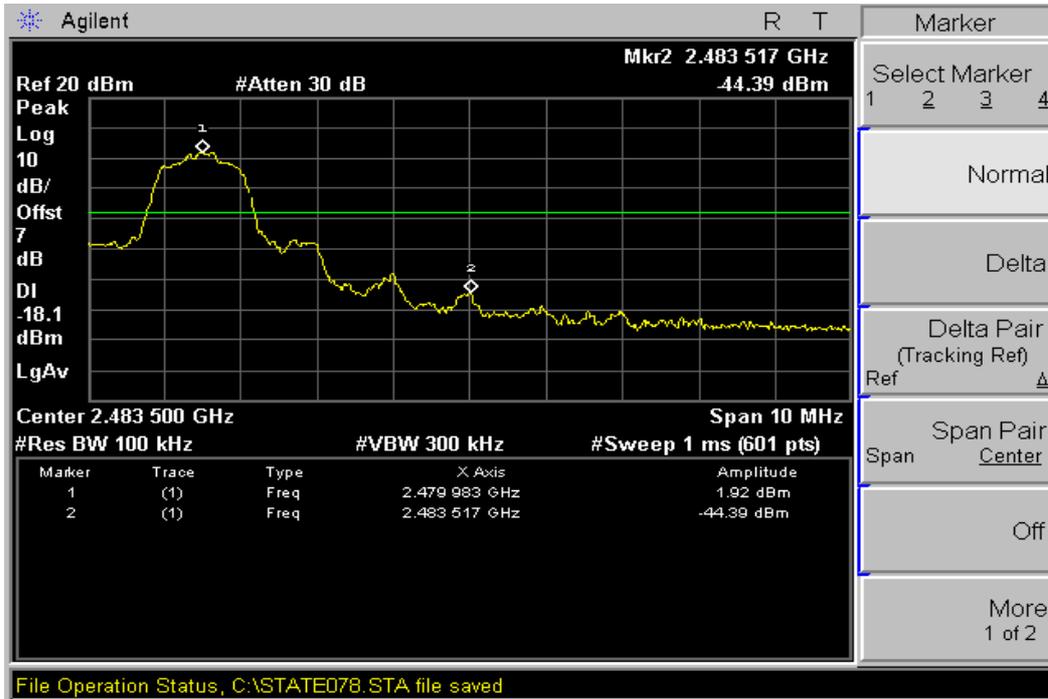


## Low edge (with hopping)



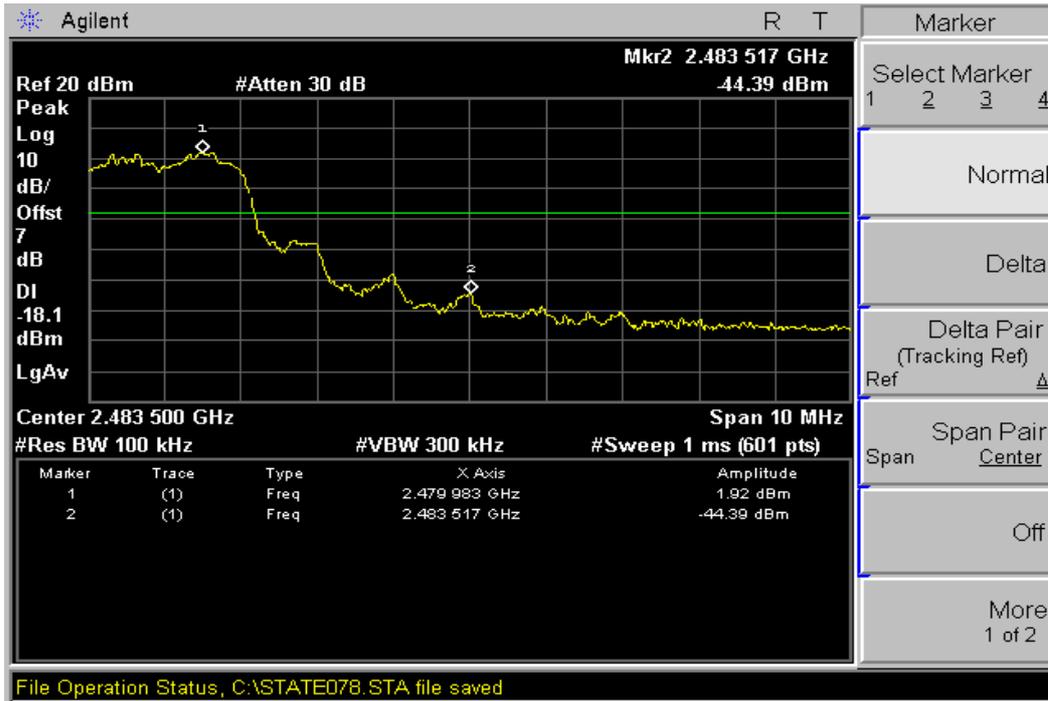


## High edge (Channel 78, no hopping)





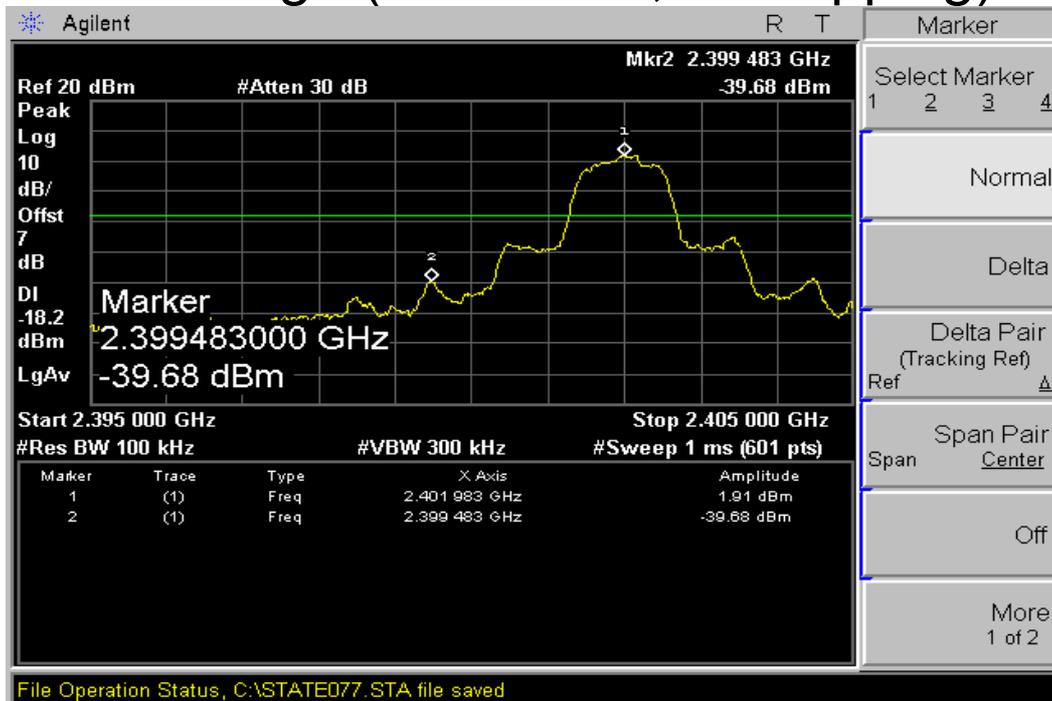
## High edge (with hopping)



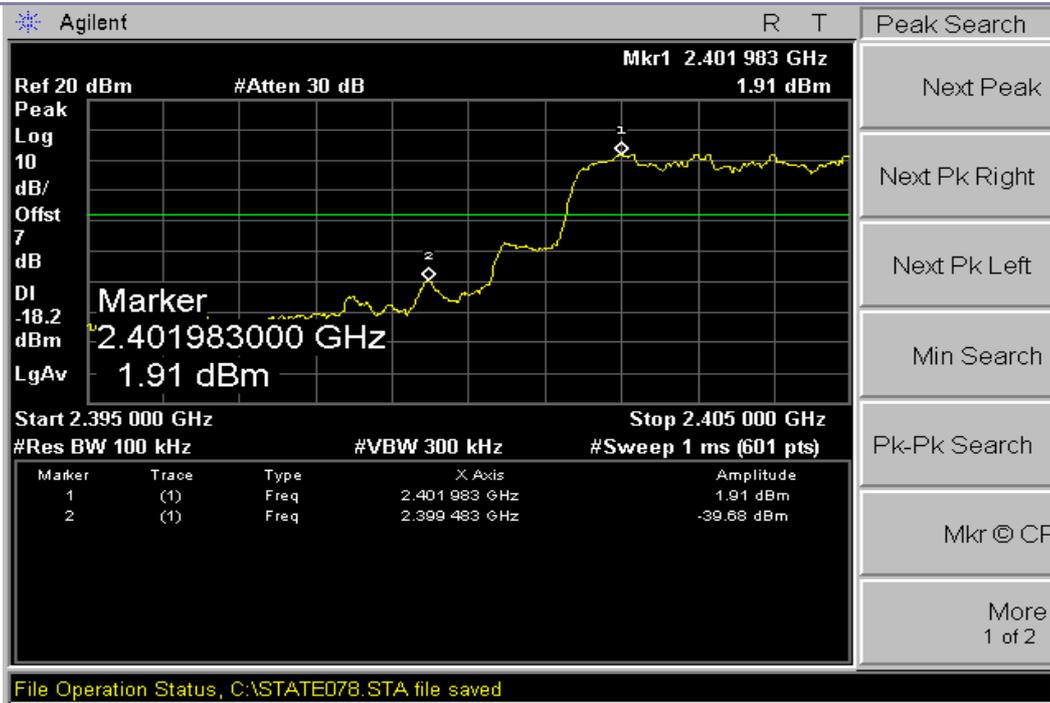


## (Modulation: 8DPSK)

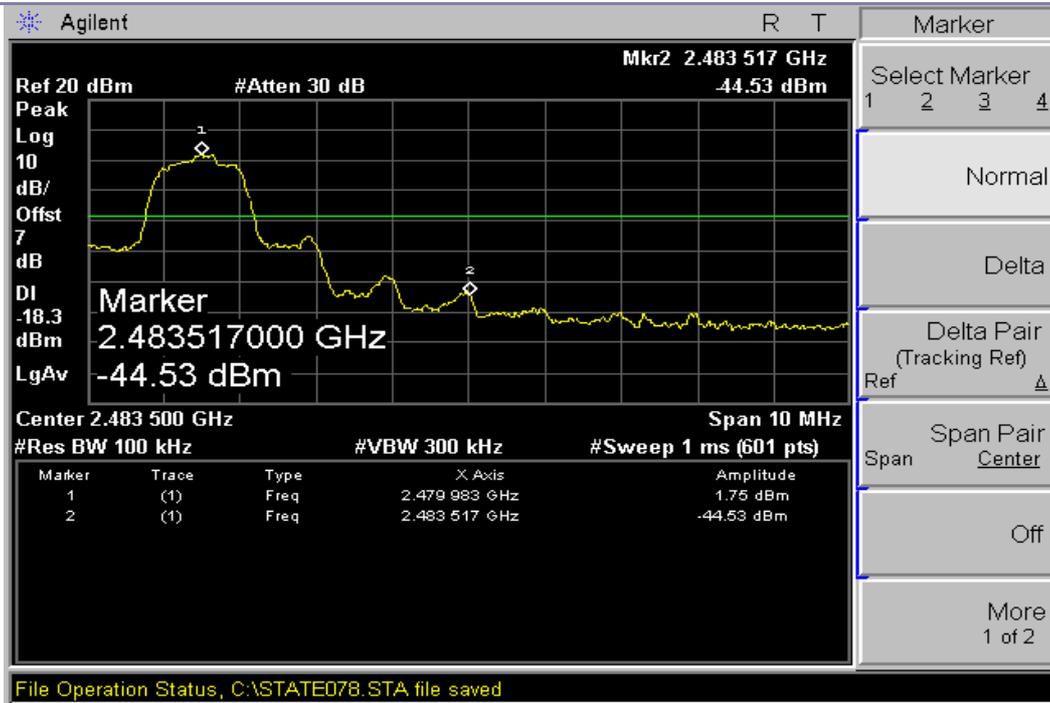
### .Low edge (Channel 0, no hopping)



### Low edge (with hopping)



High edge (Channel 78, no hopping)



High edge (with hopping)





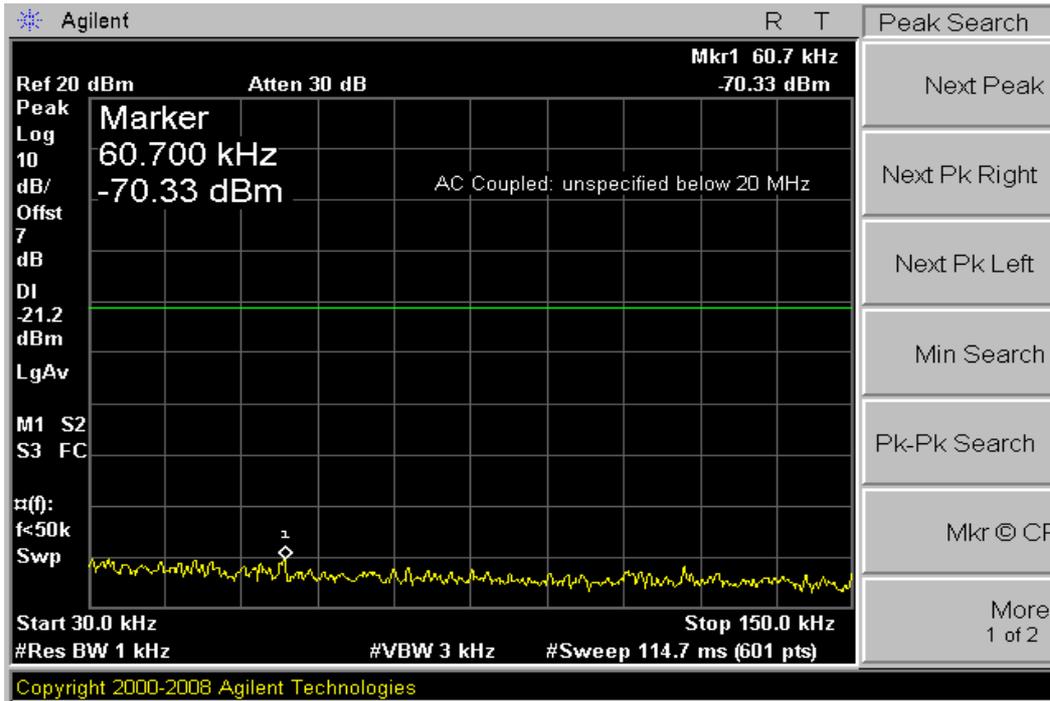
# Appendix G

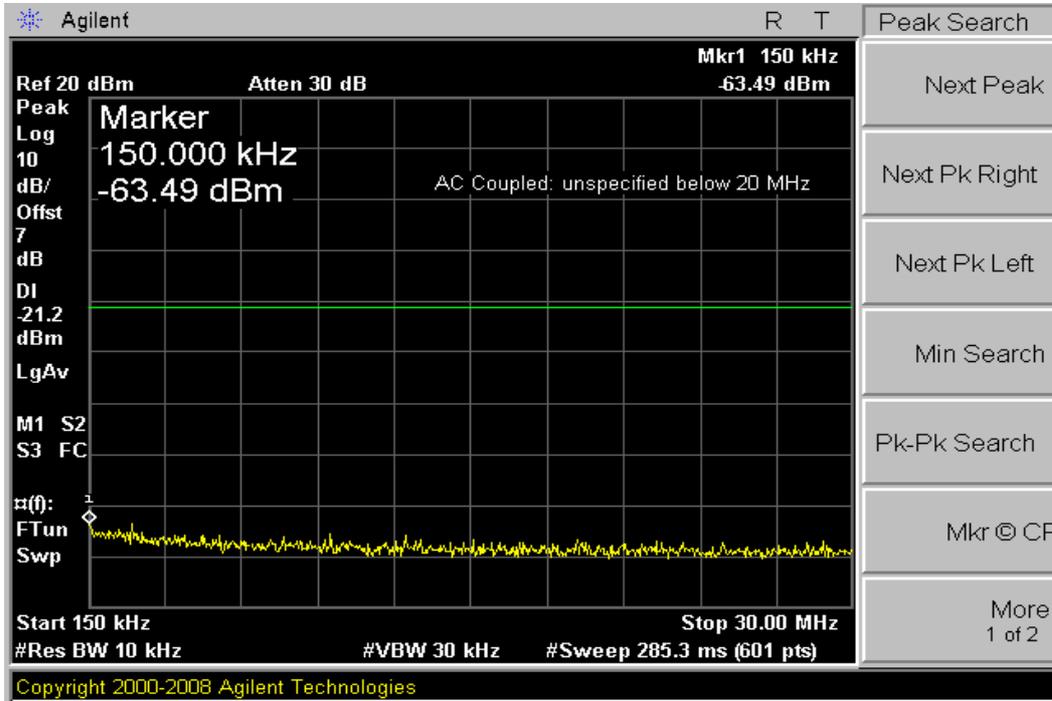
## Conducted RF spurious

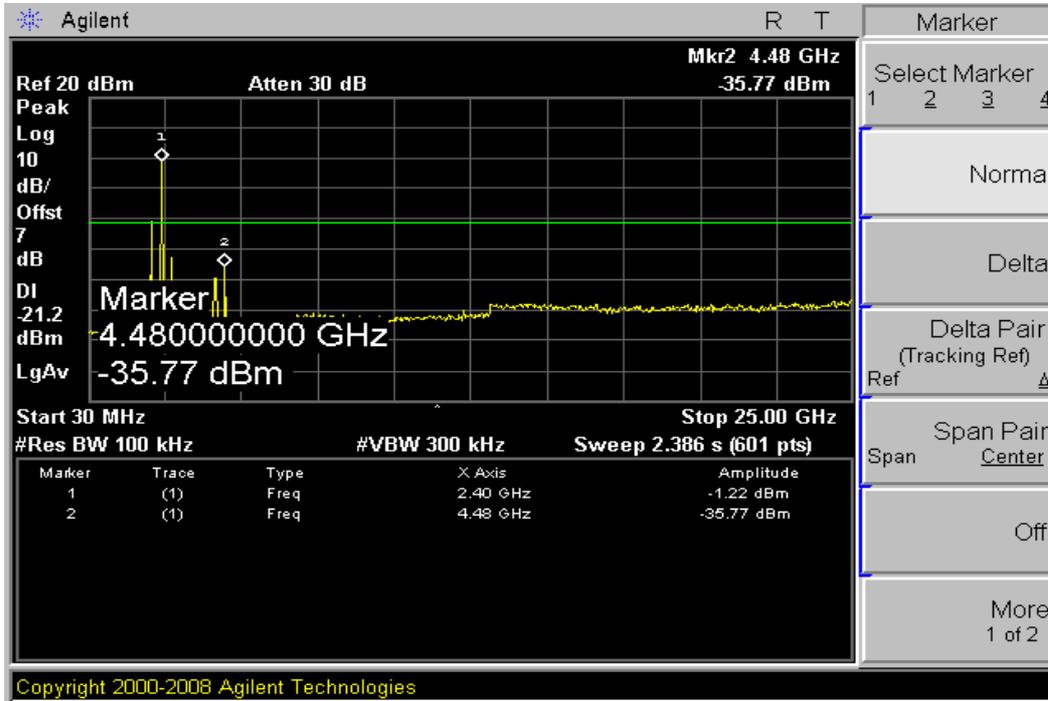
According to FCC Part 15.247 (d)



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

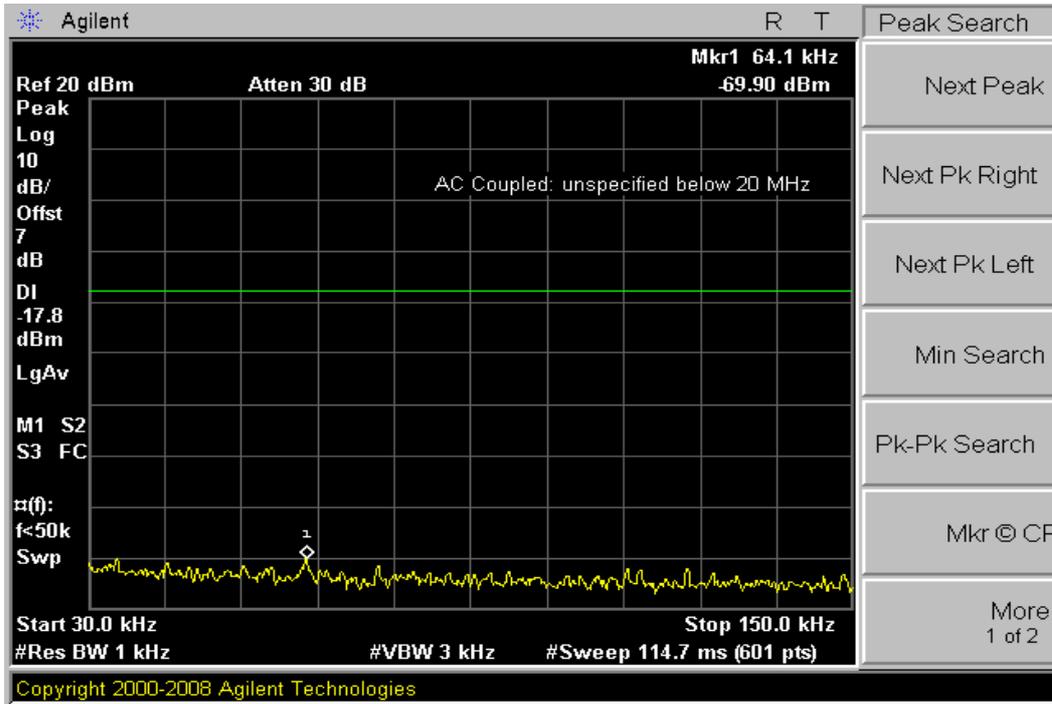


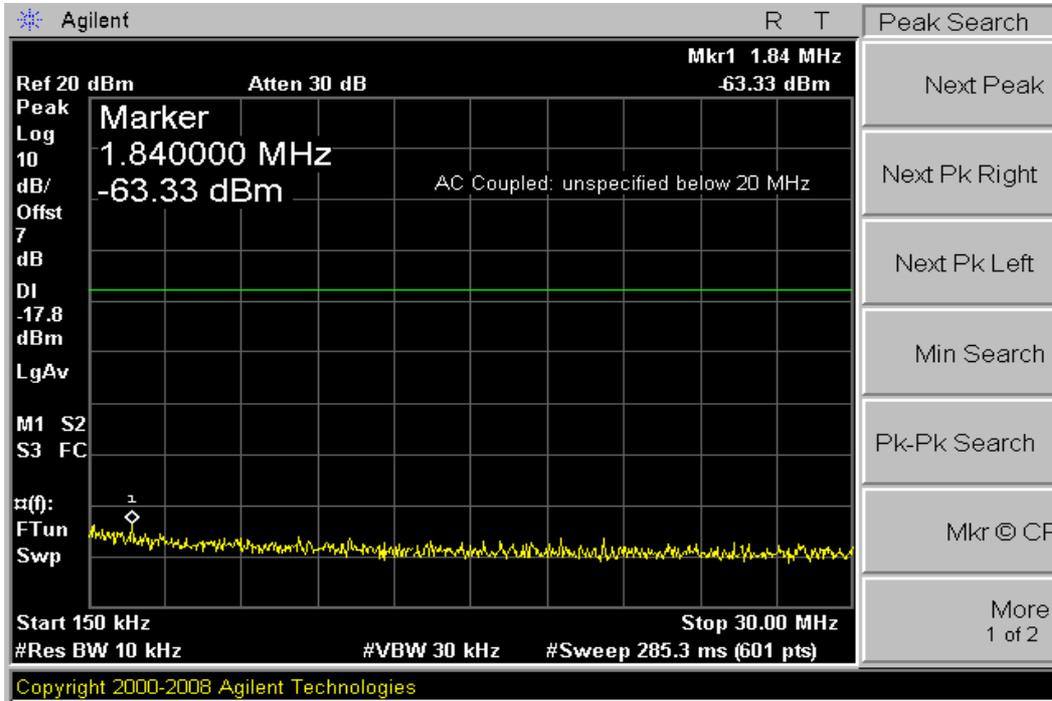


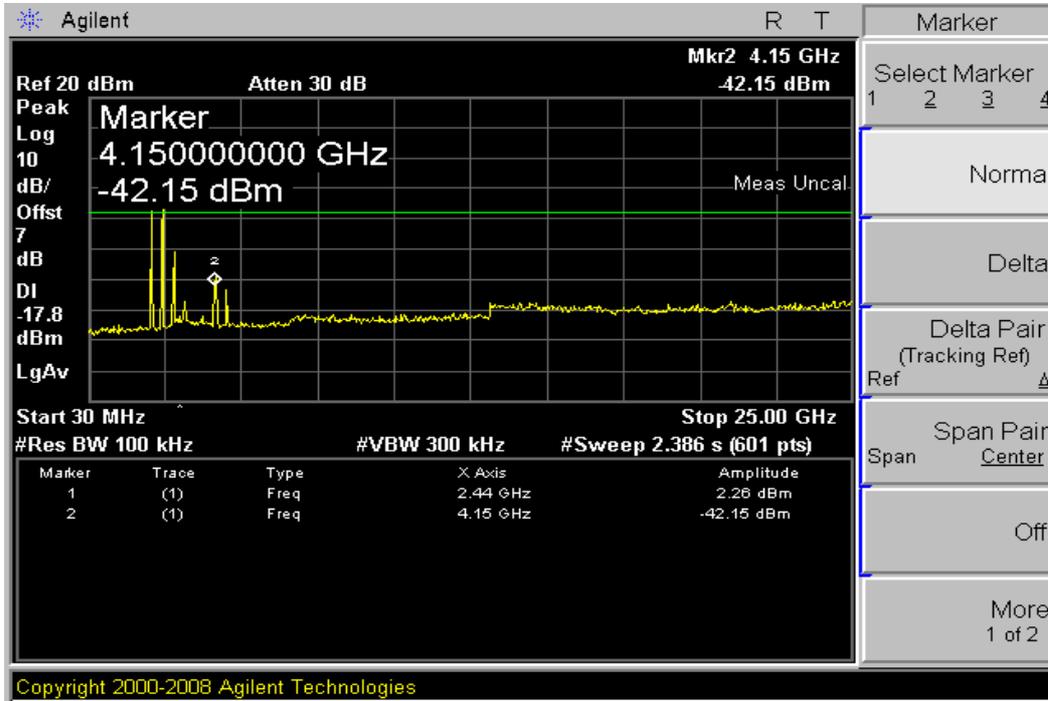




# Channel 40

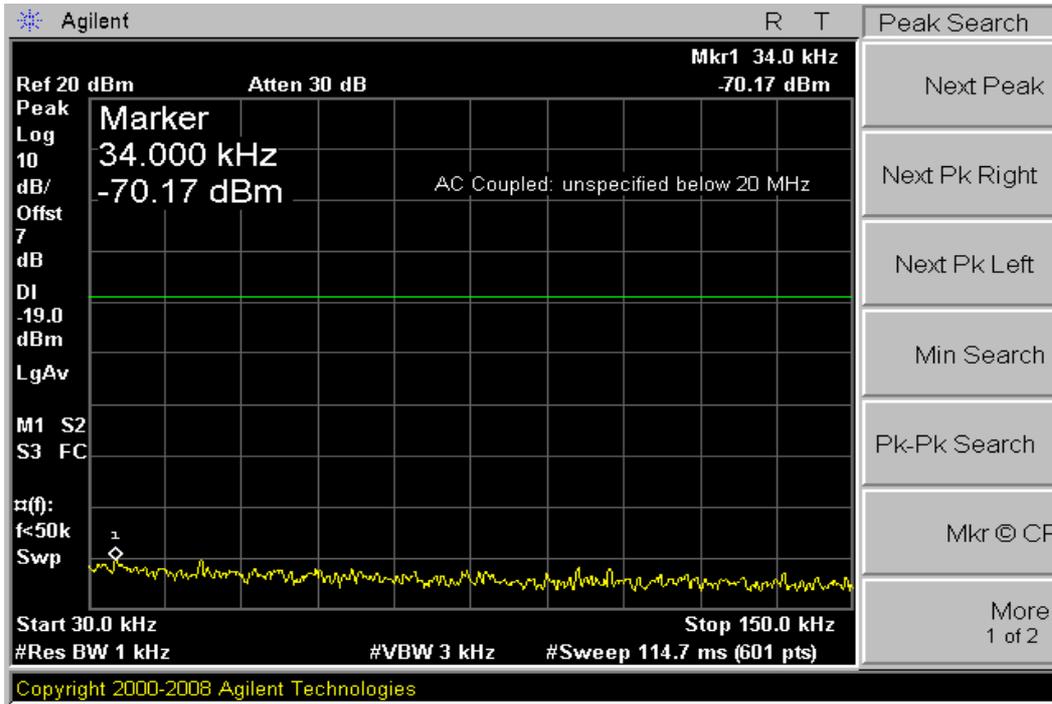


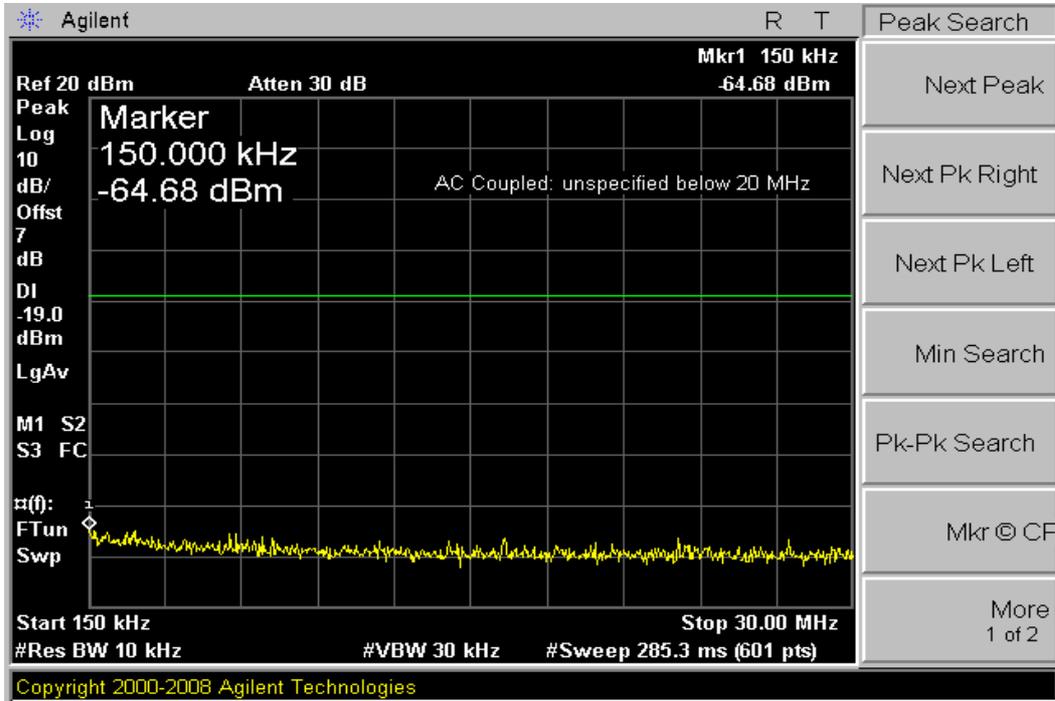


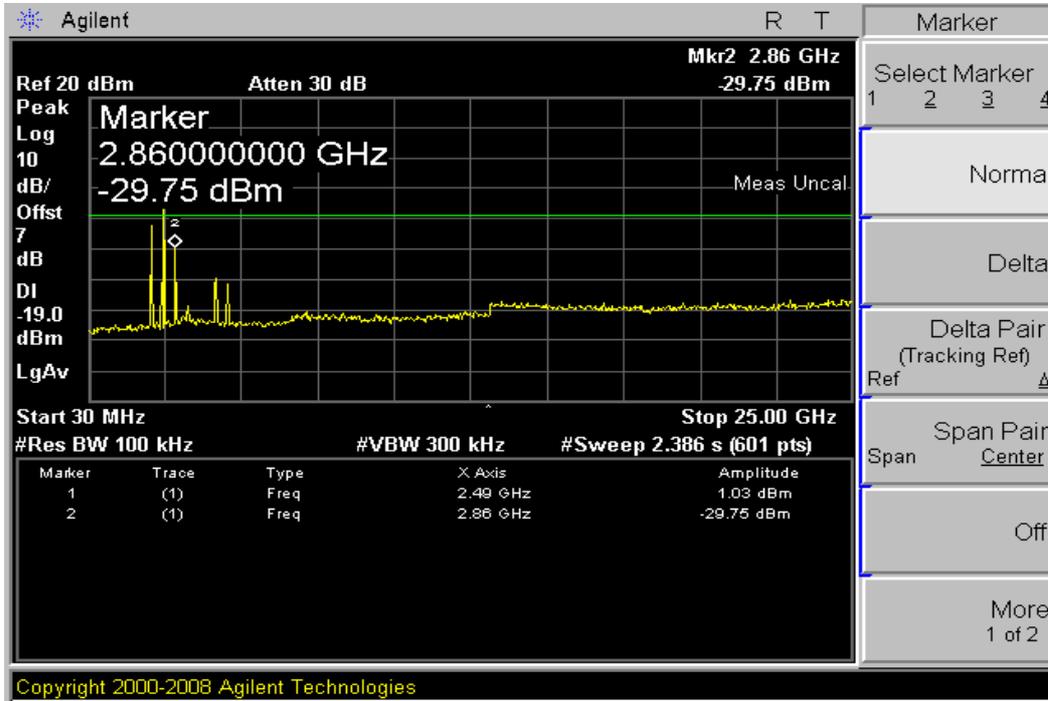




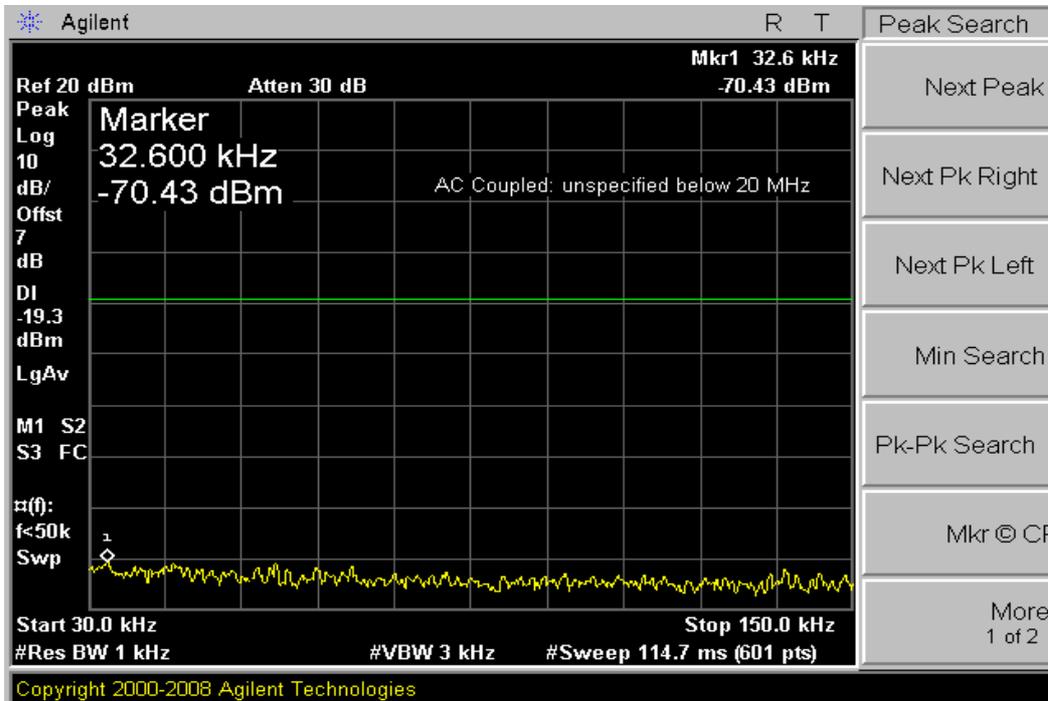
# Channel 78

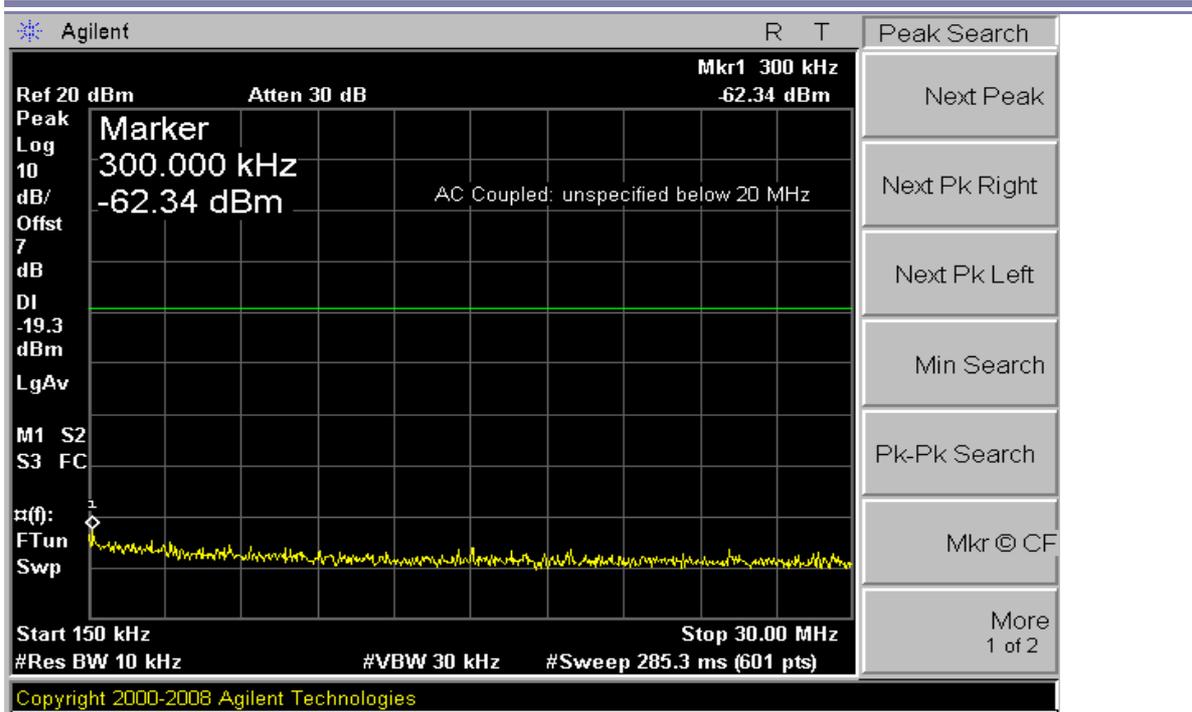


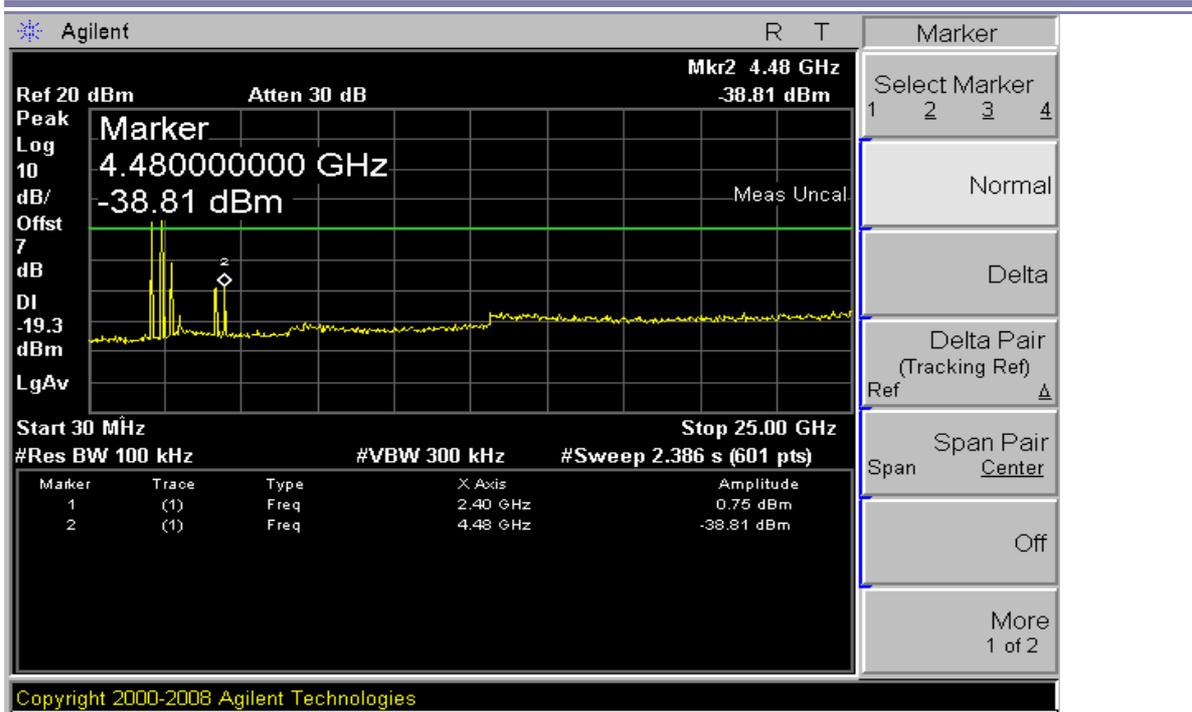




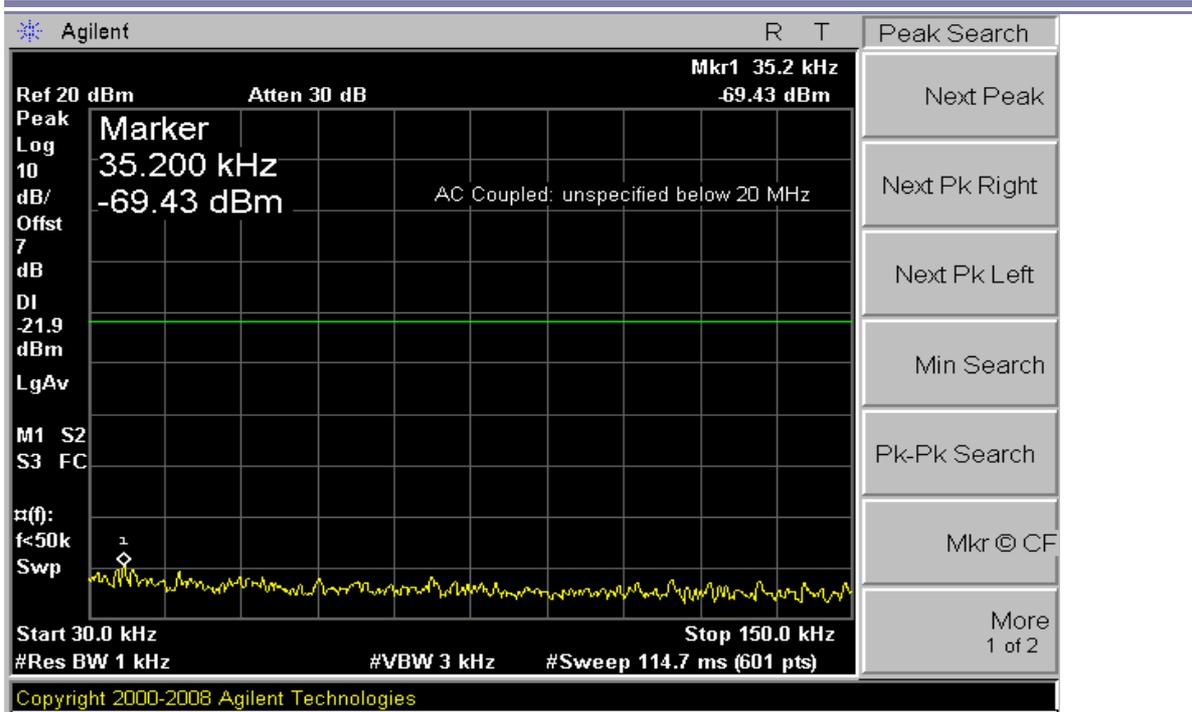
## (Modulation: 8DPSK) Channel 0

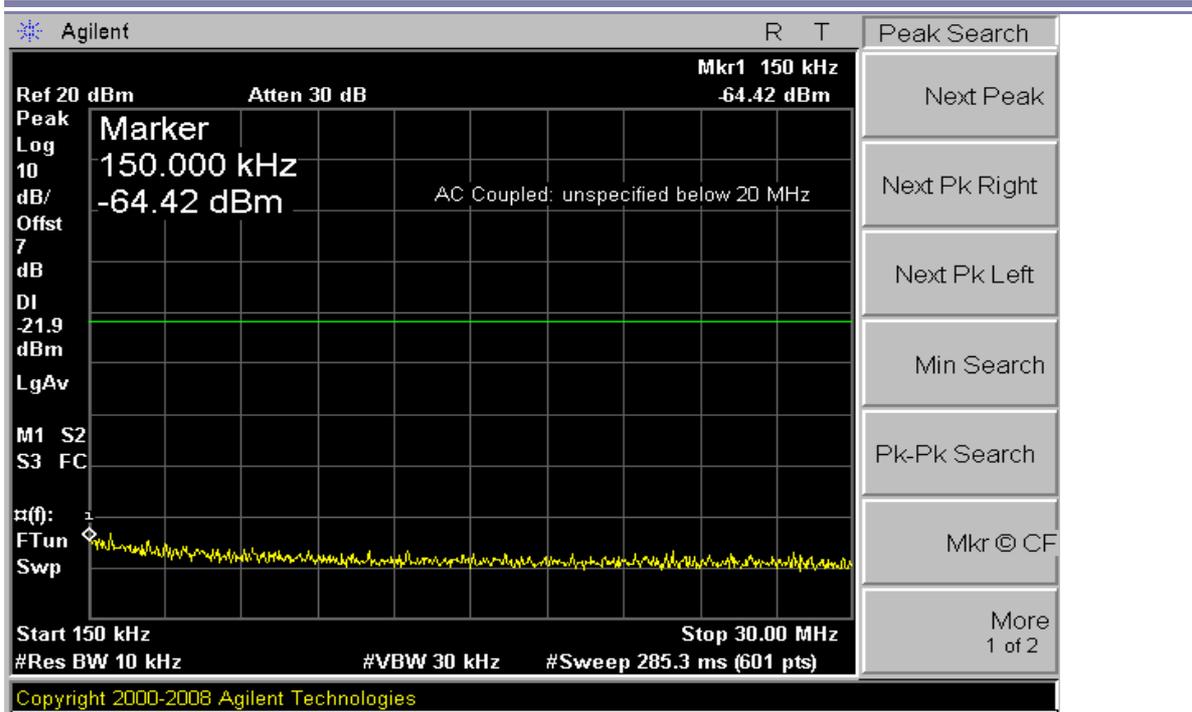


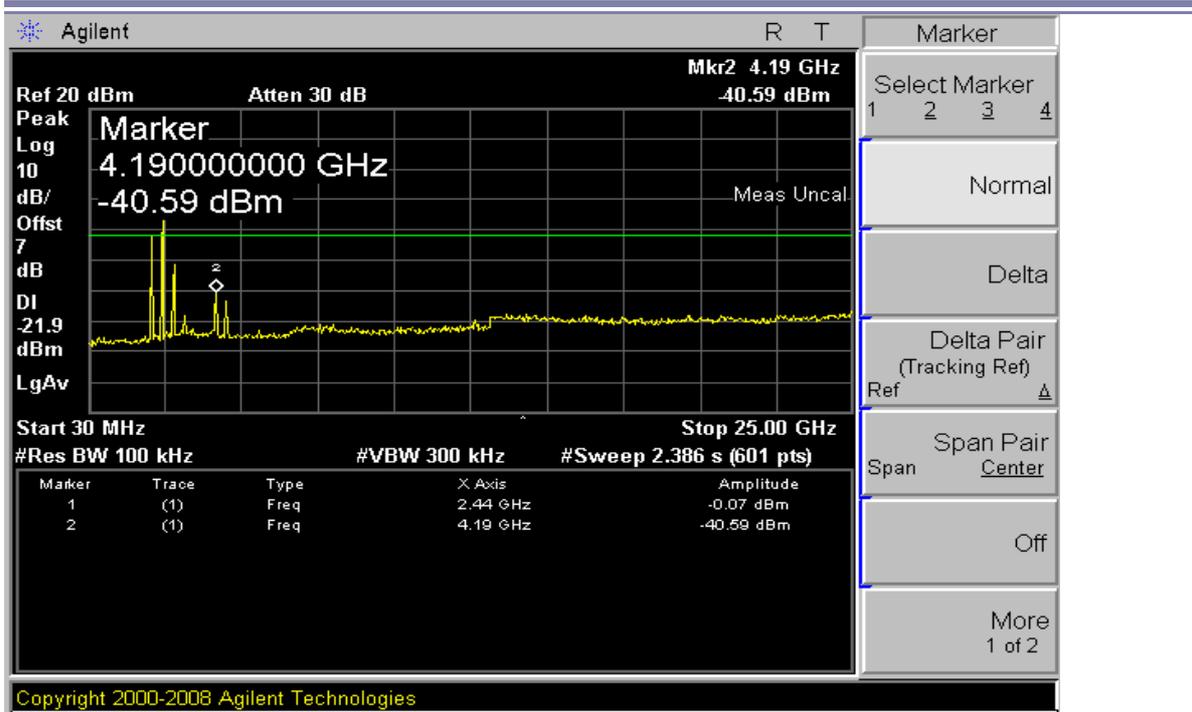




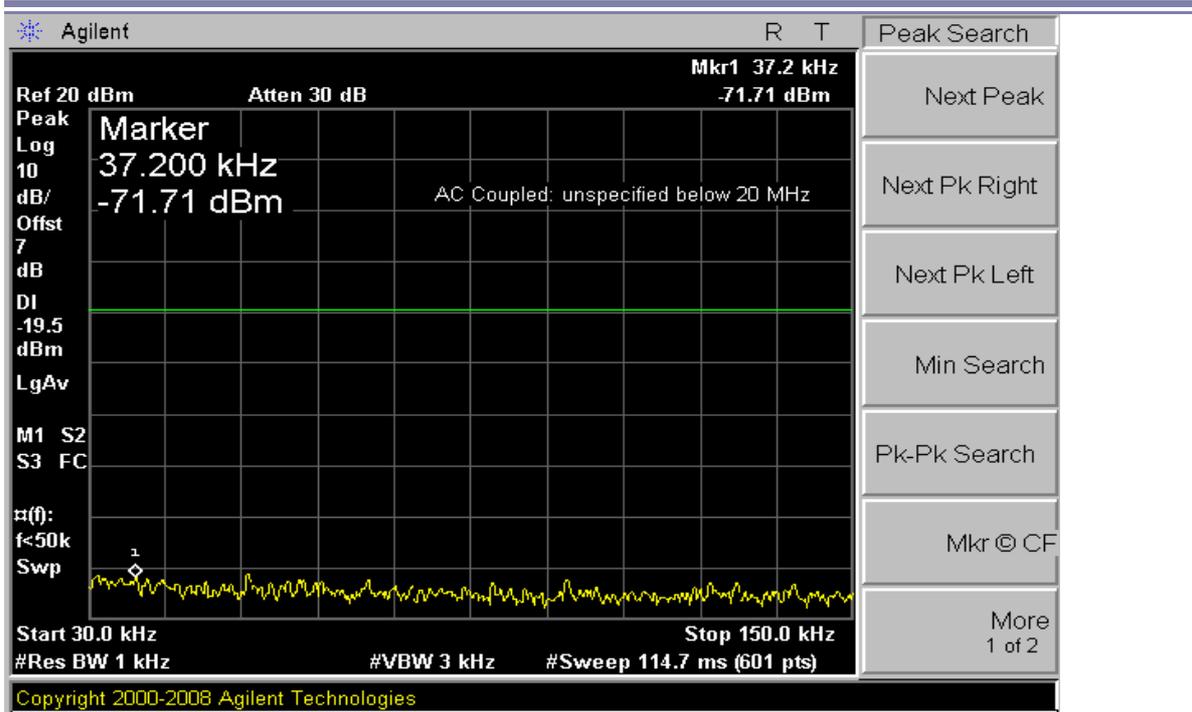
## Channel 40

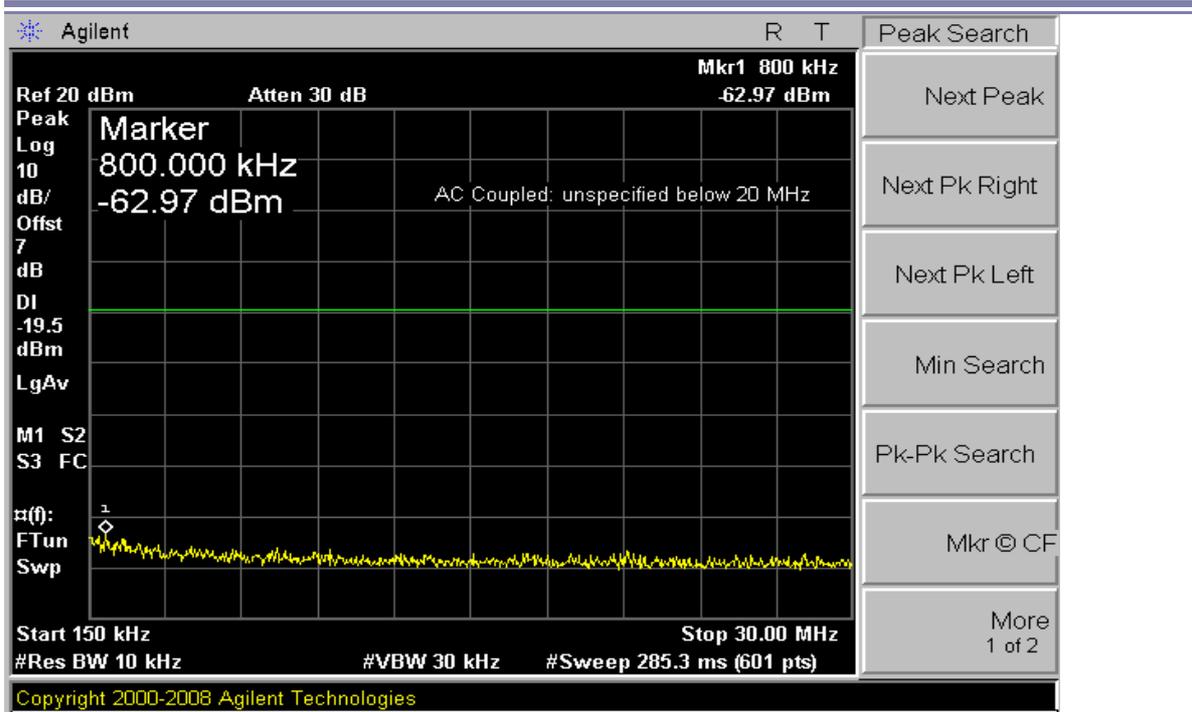


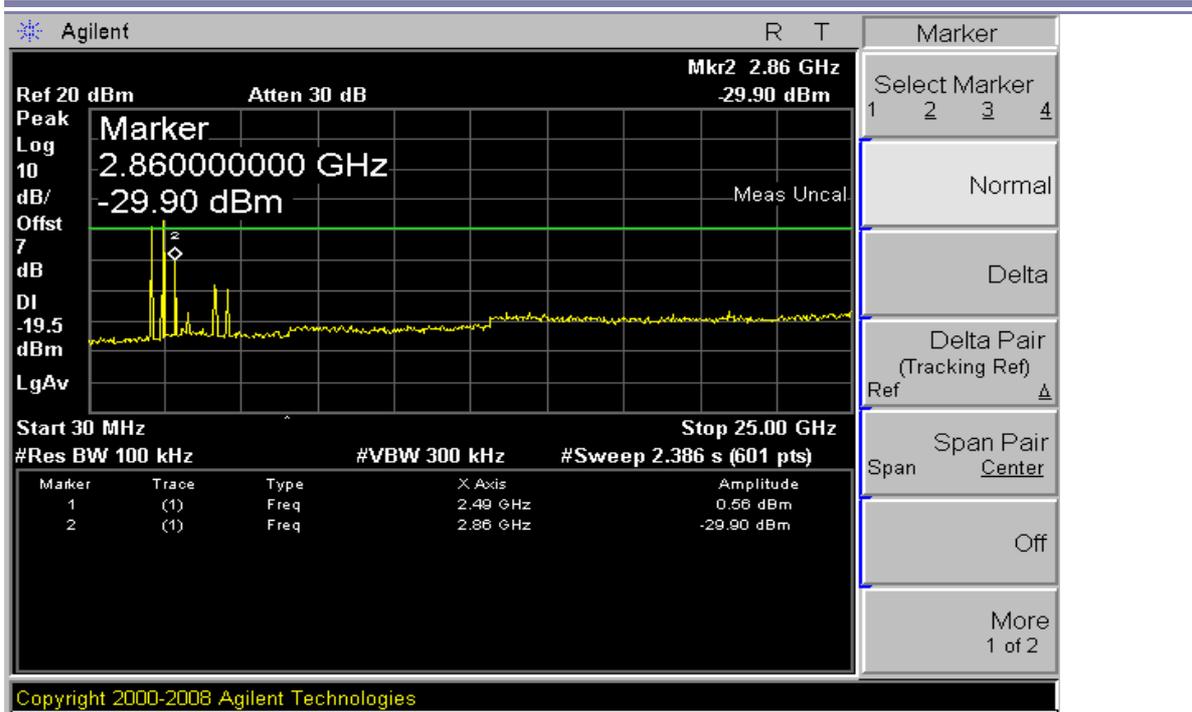




## Channel 78









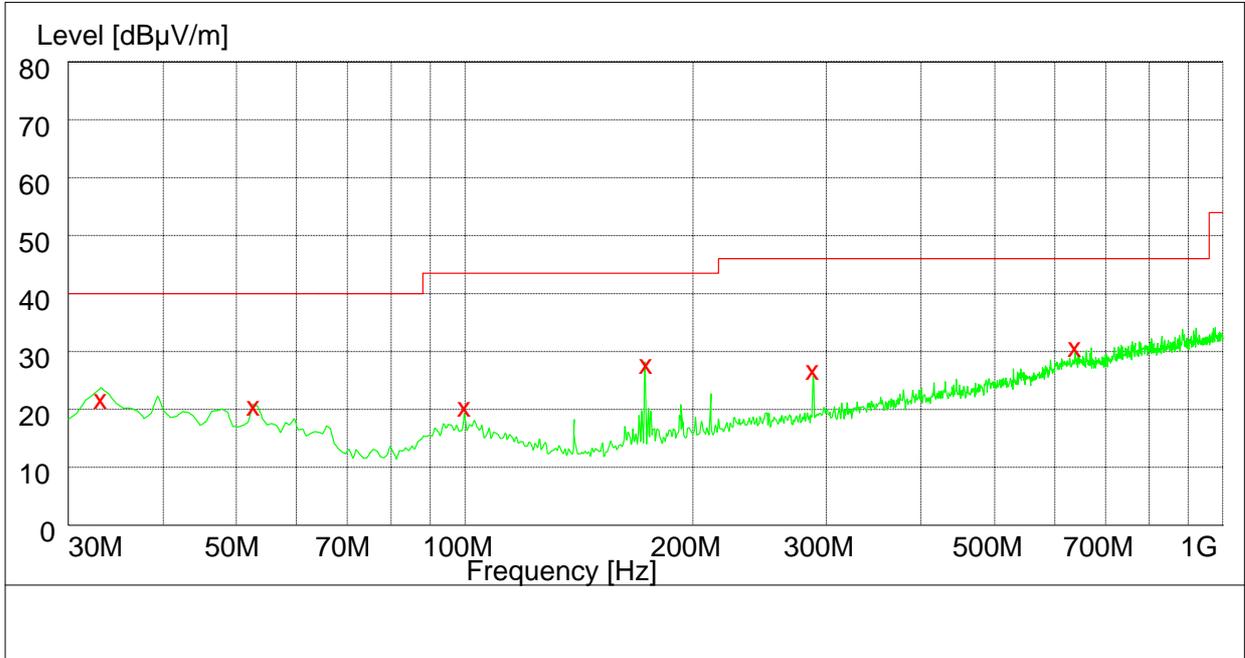
# Appendix H

## Radiated spurious emission

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



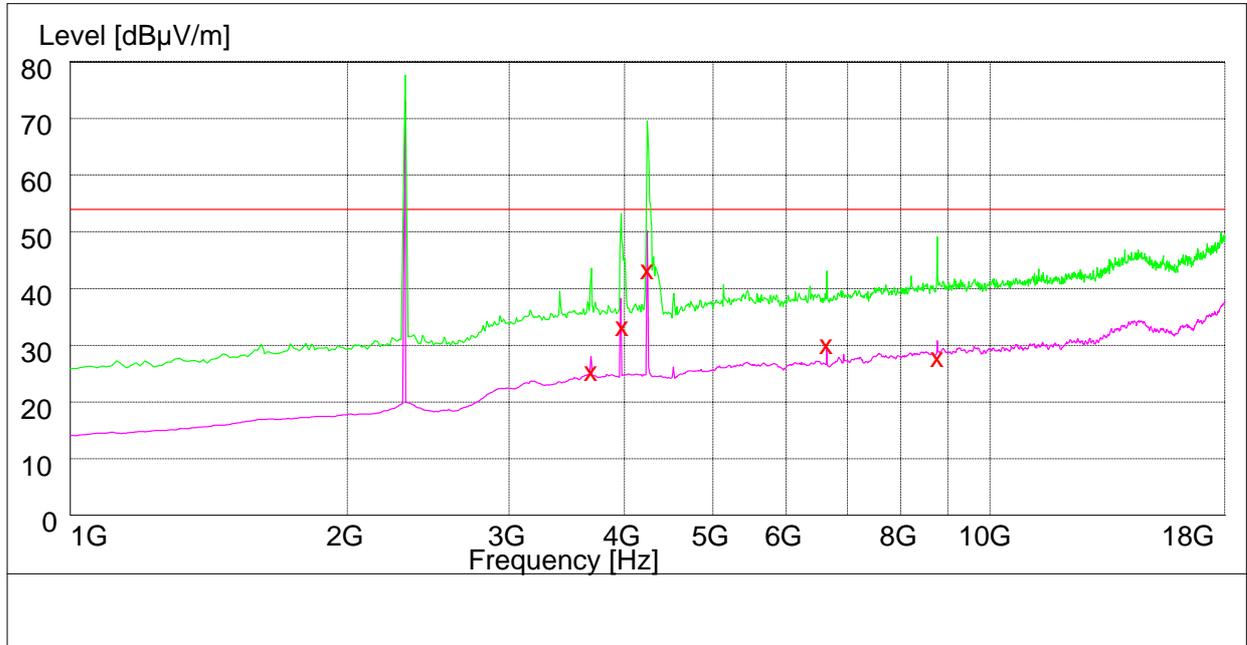
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
33.420000	21.10	11.7	40.0	18.9	183.0	215.00	VERTICAL
52.640000	20.20	12.7	40.0	19.8	279.0	182.00	VERTICAL
99.800000	20.10	13.1	43.5	23.4	188.0	242.00	HORIZONTAL
173.600000	27.80	10.3	43.5	15.7	143.0	126.00	HORIZONTAL
288.000000	26.50	15.3	46.0	19.5	255.0	236.00	VERTICAL
637.570000	30.20	22.9	46.0	15.8	132.0	39.00	HORIZONTAL



## 1GHz to 18GHz



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

### AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3687.200000	26.70	-6.7	54.0	27.3	193.0	178.00	HORIZONTAL
3968.000000	34.20	-5.9	54.0	19.8	156.0	357.00	HORIZONTAL
4244.000000	43.10	-5.3	54.0	10.9	135.0	272.00	VERTICAL
6646.000000	30.30	-0.7	54.0	23.7	133.0	239.00	HORIZONTAL
8774.500000	28.10	3.5	54.0	25.9	159.0	84.00	VERTICAL



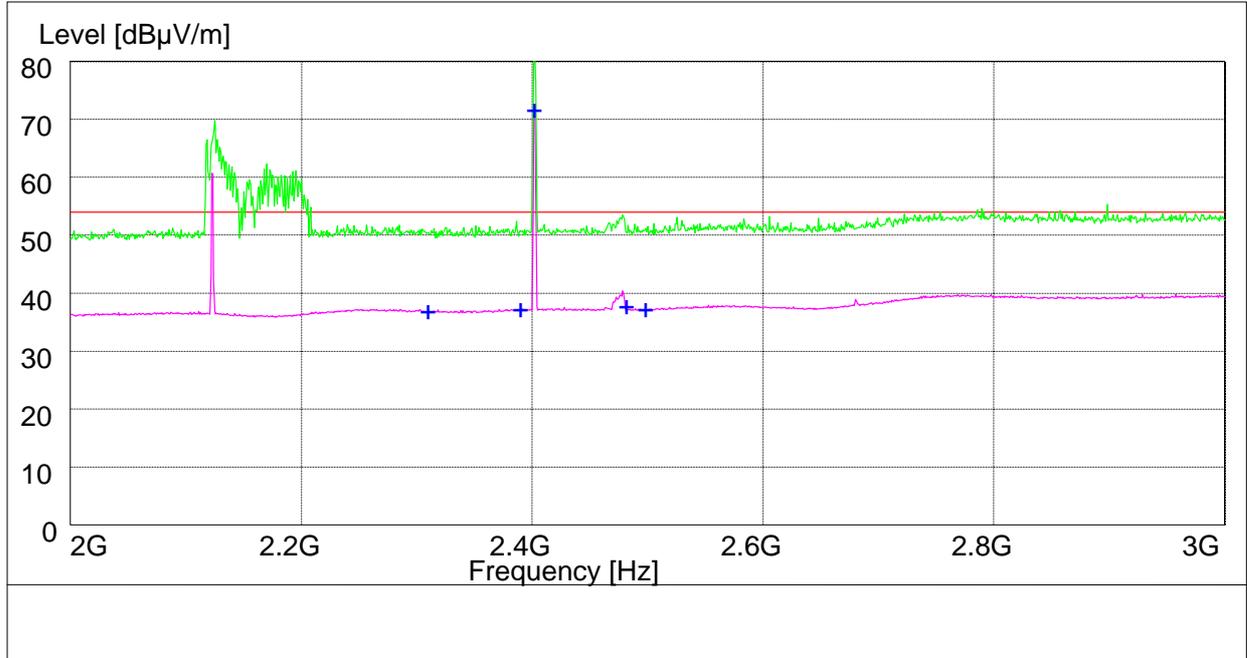
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## 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz



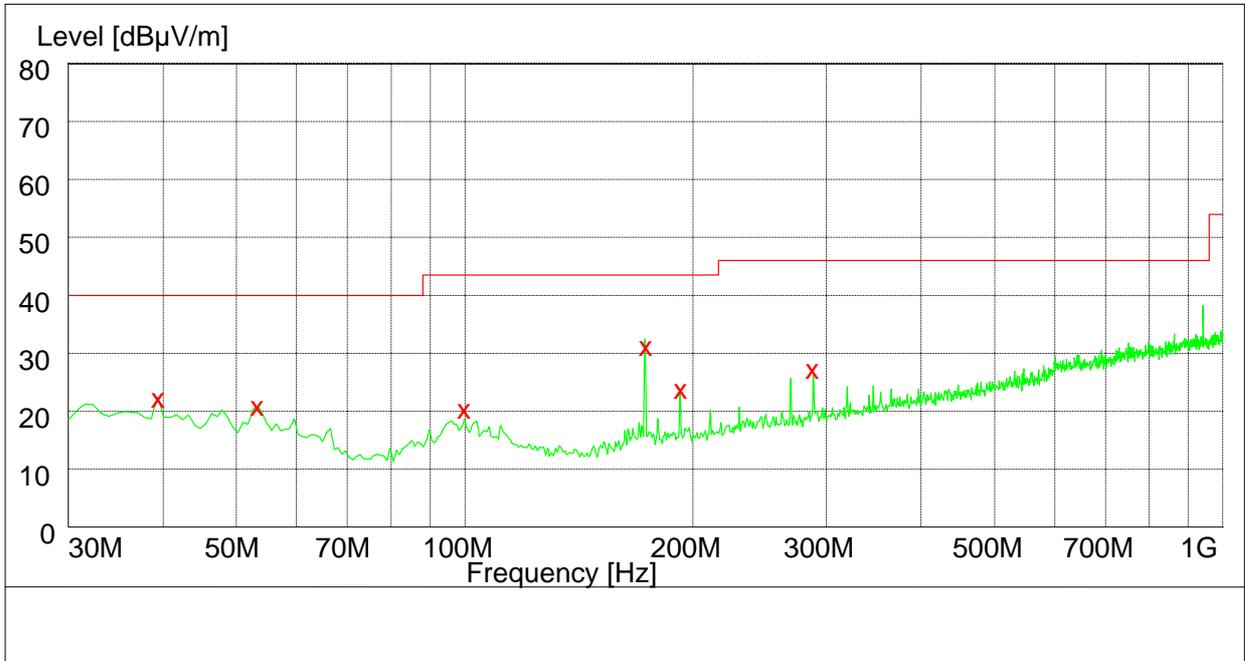
Note: The highest peak exceeds the limit line is carrier frequency.  
The bands from 2GHz to 2.31GHz is out of the restricted bands.

### AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	38.20	33.3	54.0	15.80	182.0	208.00	VERTICAL
2390.000000	38.40	33.5	54.0	15.60	197.0	227.00	VERTICAL
2402.000000	71.80	33.5	54.0	-17.8	197.0	210.00	HORIZONTAL
2483.500000	39.00	33.7	54.0	15.00	130.0	255.00	VERTICAL
2500.000000	38.50	33.8	54.0	15.50	152.0	45.00	VERTICAL



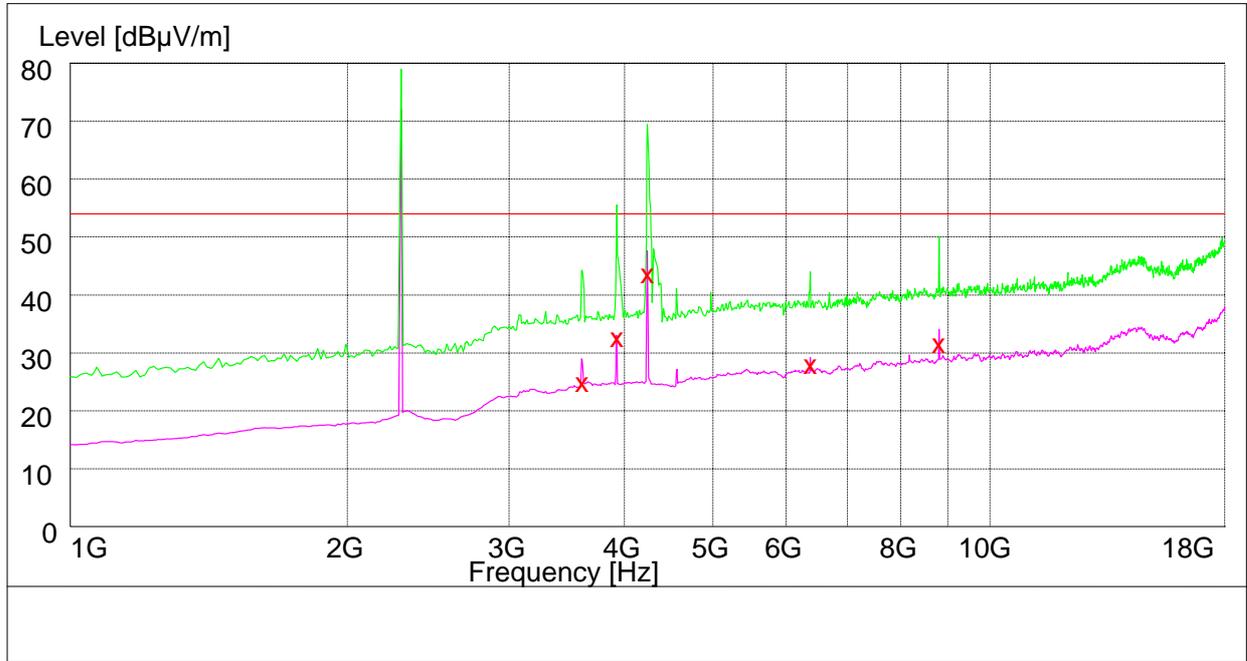
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
38.420000	22.00	13.1	40.0	18.0	287.0	133.00	HORIZONTAL
53.340000	20.10	12.7	40.0	19.9	134.0	358.00	HORIZONTAL
99.520000	20.20	13.1	43.5	23.3	189.0	248.00	VERTICAL
172.800000	30.40	10.3	43.5	12.1	197.0	286.00	HORIZONTAL
193.000000	23.40	11.9	43.5	19.6	204.0	301.00	HORIZONTAL
288.000000	27.10	15.3	46.0	18.9	218.0	27.00	HORIZONTAL



## 1GHz to 18GHz



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

### AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3607.000000	25.00	-7.0	54.0	29.0	182.0	208.00	VERTICAL
3925.500000	33.40	-6.1	54.0	20.6	197.0	227.00	VERTICAL
4237.000000	44.00	-5.3	54.0	10.0	197.0	210.00	HORIZONTAL
6372.000000	28.20	-1.1	54.0	25.8	130.0	255.00	VERTICAL
8812.500000	32.10	3.6	54.0	21.9	152.0	45.00	VERTICAL



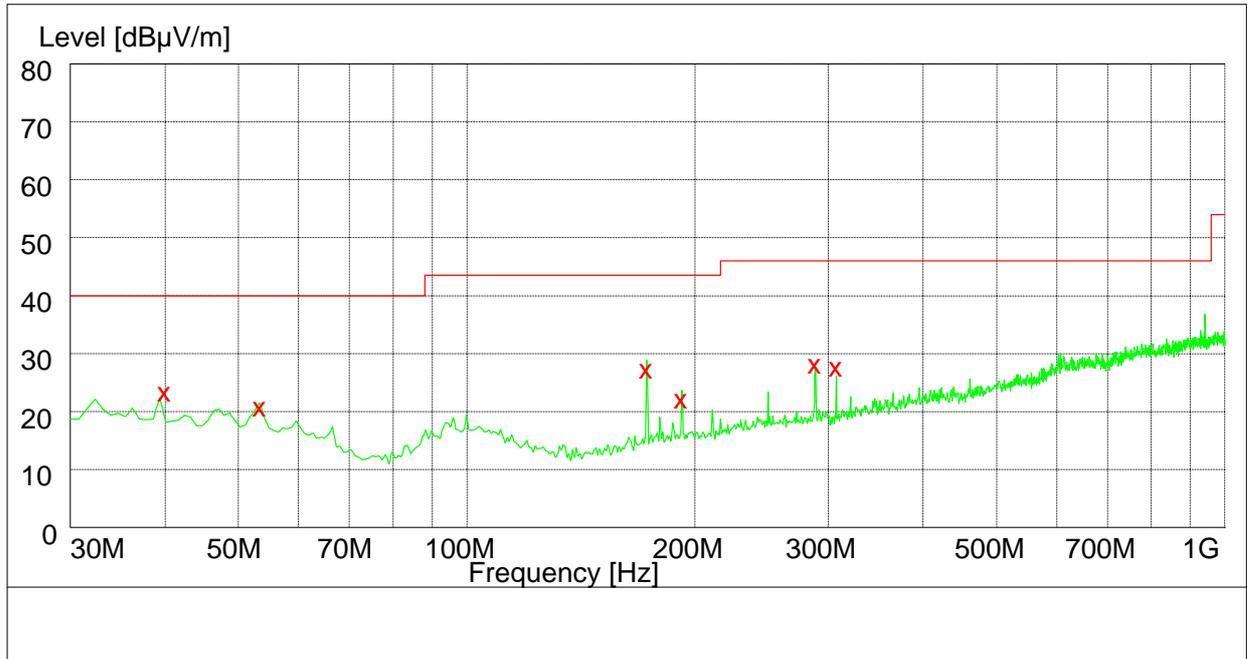
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# 18GHz to 26GHz

Note: No peak found in pre- test.



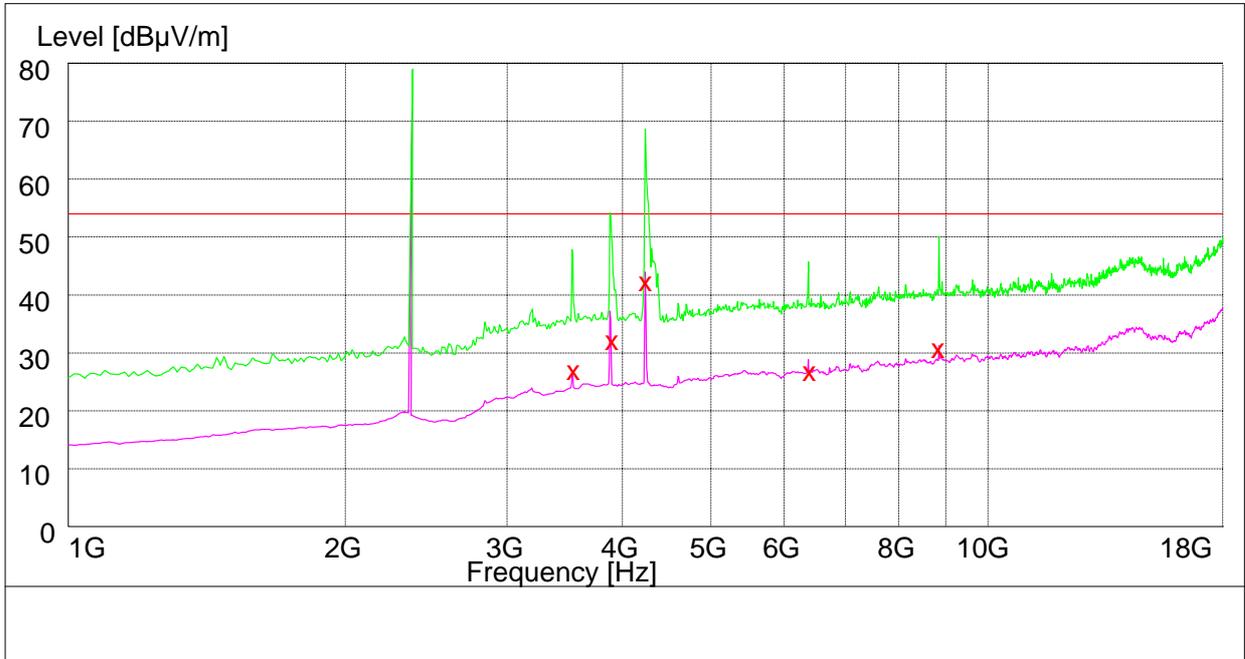
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
39.920000	22.50	13.1	40.0	17.5	282.0	342.00	VERTICAL
53.040000	20.30	12.7	40.0	19.7	273.0	314.00	VERTICAL
174.800000	27.00	10.3	43.5	16.5	178.0	15.00	HORIZONTAL
193.000000	22.00	11.9	43.5	21.5	266.0	238.00	VERTICAL
288.000000	28.20	15.3	46.0	17.8	207.0	134.00	HORIZONTAL
307.200000	27.50	15.7	46.0	18.5	248.0	148.00	VERTICAL



## 1GHz to 18GHz



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

### AV Detector

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3534.500000	28.10	-7.3	54.0	25.9	114.0	294.00	HORIZONTAL
3889.000000	32.60	-6.2	54.0	21.4	159.0	84.00	HORIZONTAL
4236.000000	42.60	-5.3	54.0	11.4	103.0	144.00	HORIZONTAL
6378.500000	27.60	-1.1	54.0	26.4	189.0	137.00	VERTICAL
8849.500000	31.90	3.7	54.0	22.1	127.0	33.00	VERTICAL



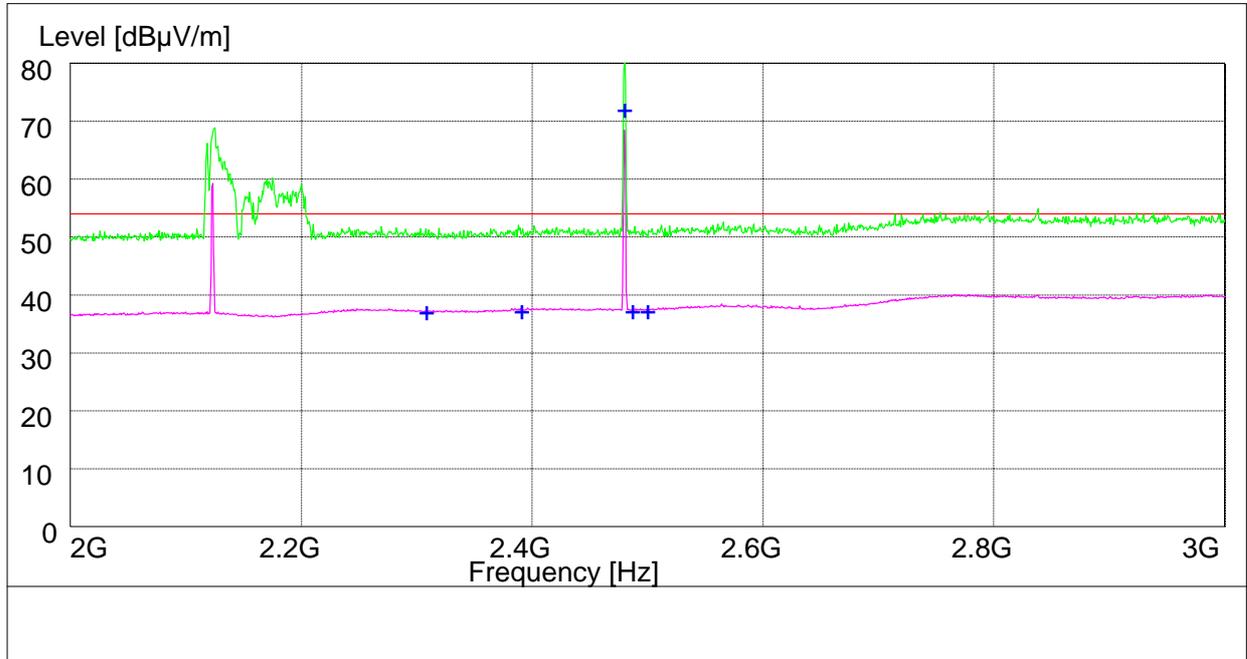
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# 18GHz to 26GHz

Note: No peak found in pre- test.



## 2GHz to 3GHz



Note: The peak exceeds the limit line is carrier frequency.  
The bands from 2GHz to 2.31GHz is out of the restricted bands.

### AV Detector

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	196.0	354.0	HORIZONTAL
2390.000000	38.50	33.5	54.0	15.5	156.0	138.0	VERTICAL
2480.000000	72.40	33.7	54.0	-18.4	140.0	122.0	VERTICAL
2483.500000	38.60	33.7	54.0	15.4	179.0	147.0	HORIZONTAL
2500.000000	38.50	33.8	54.0	15.5	112.0	338.0	HORIZONTAL



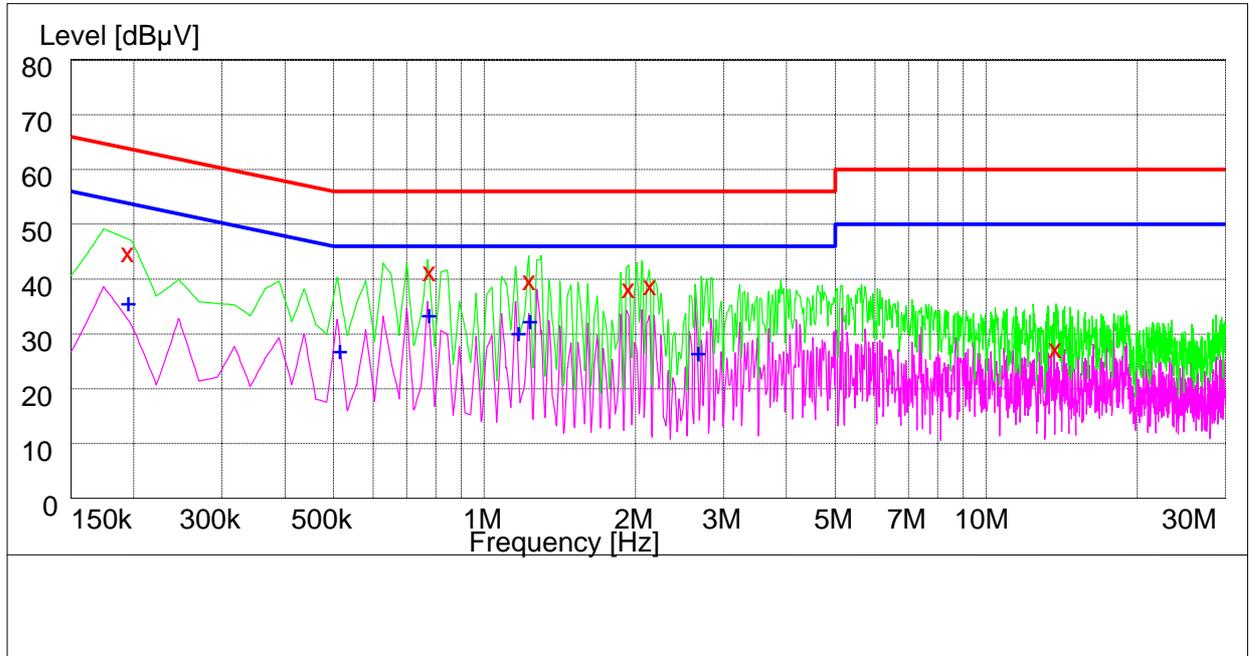
# Appendix I

## Conducted Emission at Power Port

According to FCC Part 15.207



## Channel 40



### MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.195000	45.20	10.1	64	18.8	N	FLO
0.780000	41.70	10.1	56	14.3	N	FLO
1.234500	40.00	10.1	56	16.0	N	FLO
1.945500	38.60	10.1	56	17.4	N	FLO
2.143500	39.10	10.1	56	16.9	N	FLO
13.780500	27.70	10.3	60	32.3	N	FLO

### MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.195000	36.10	10.1	54	17.9	N	FLO
0.514500	27.30	10.1	46	18.7	N	FLO
0.775500	33.80	10.1	46	12.2	N	FLO
1.167000	30.50	10.1	46	15.5	N	FLO
1.234500	32.80	10.1	46	13.2	N	FLO
2.665500	27.00	10.2	46	19.0	N	FLO



# Appendix J

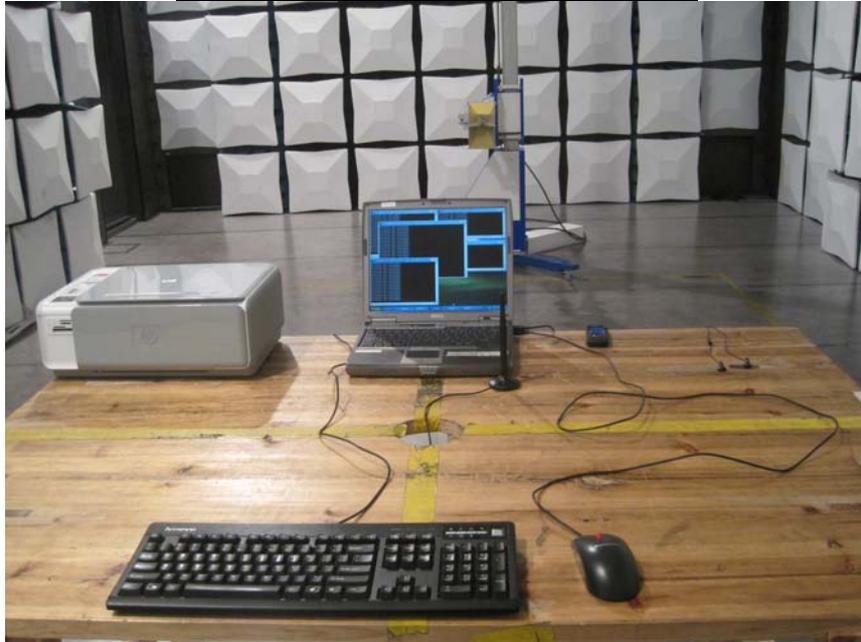
## Photos of Test Setup



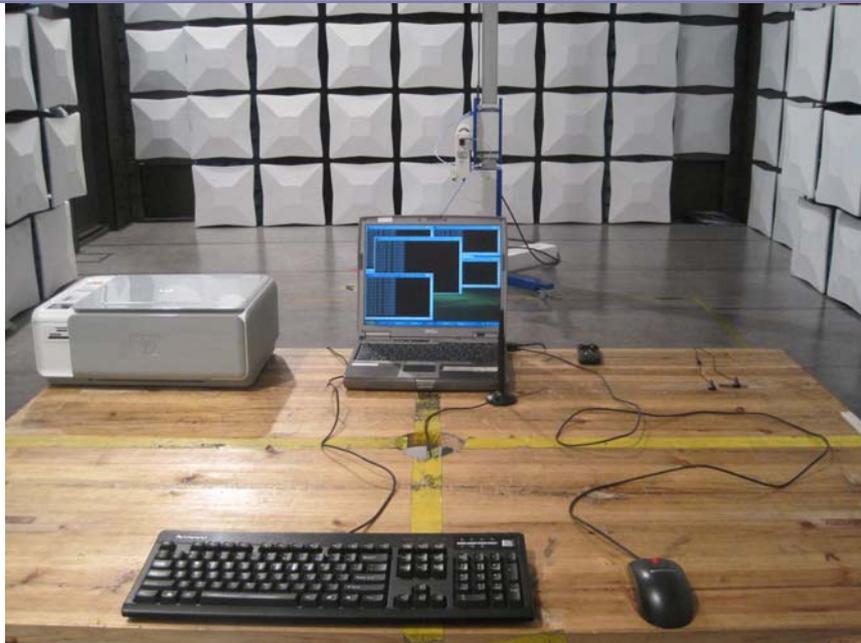
# 1 Radiated Spurious Emissions



Radiated Spurious Emission (below 2GHz)

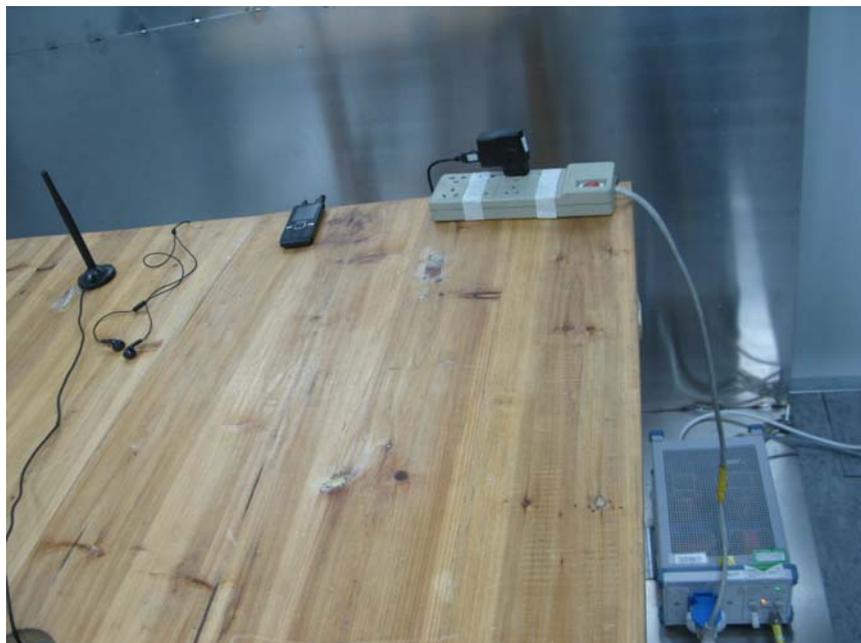


Radiated Spurious Emission (2GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

## **2 Conducted Emissions**



Conducted Emissions for AC Ports