



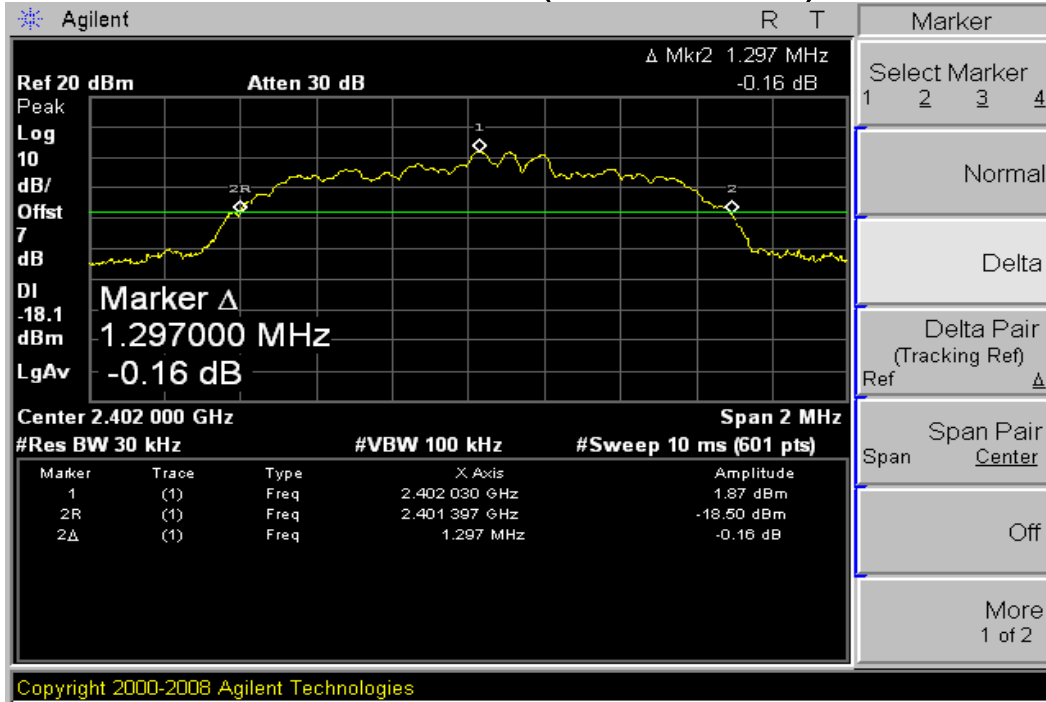
# Appendix A

## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)

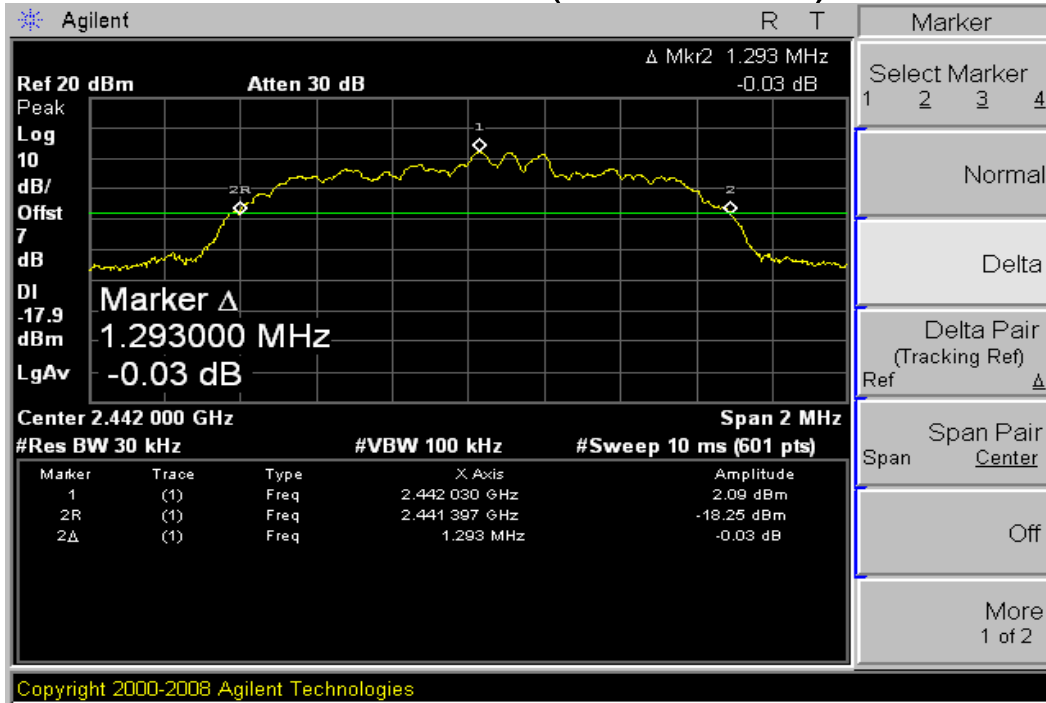


# Modulation: $\pi/4$ -DQPSK Channel 0 (2402MHz)

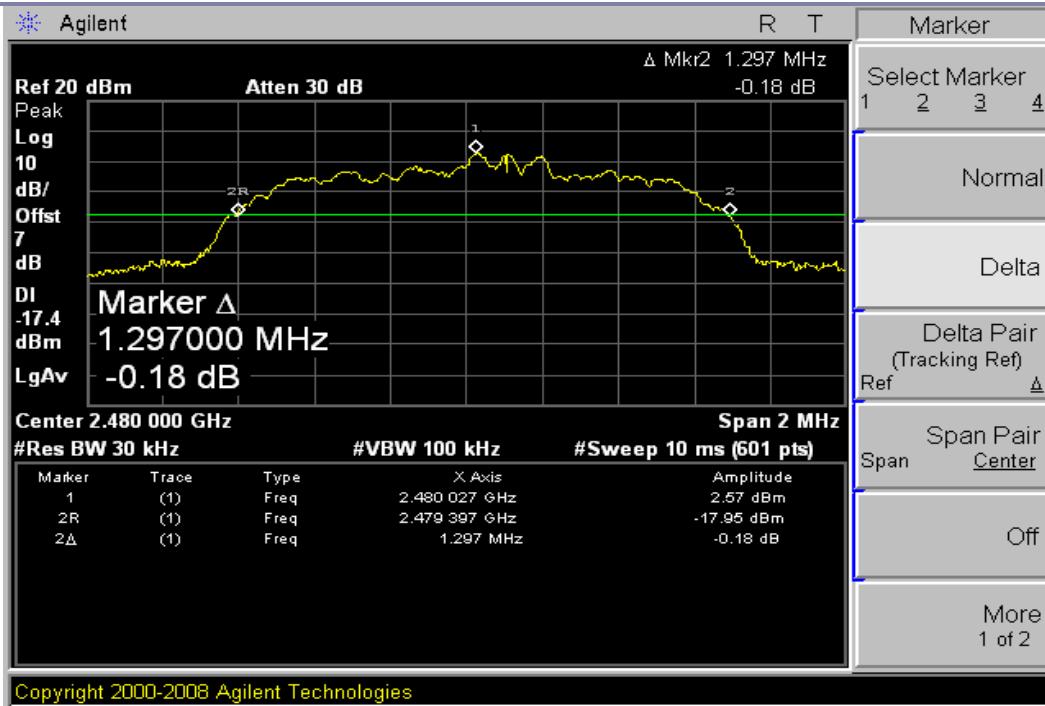




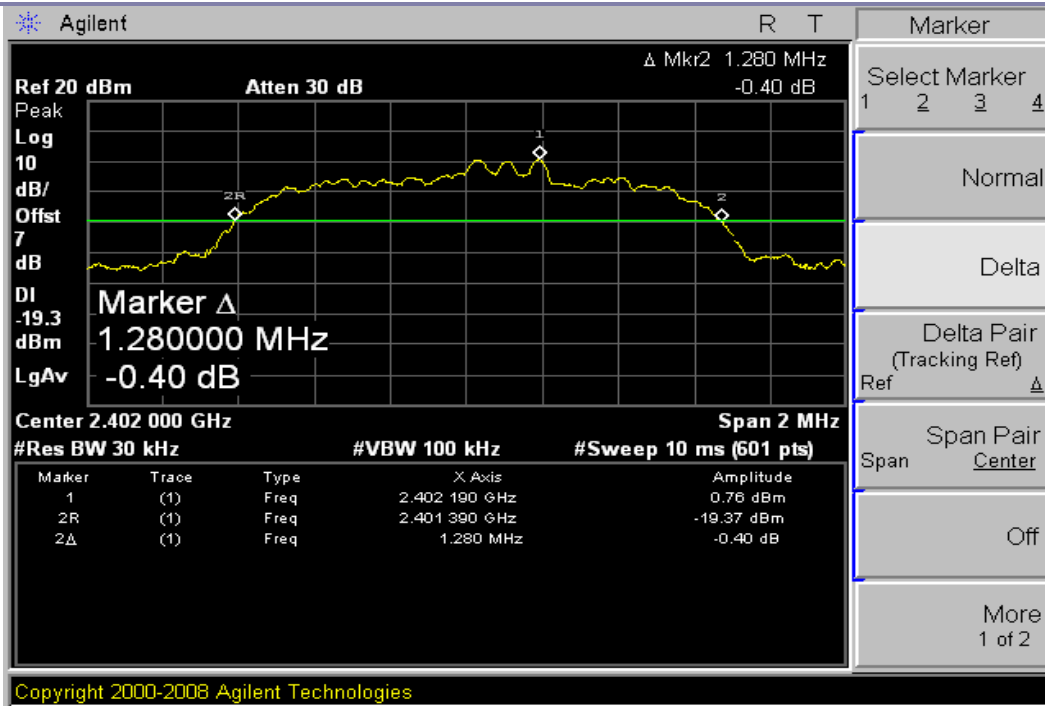
## Channel 40 (2442MHz)



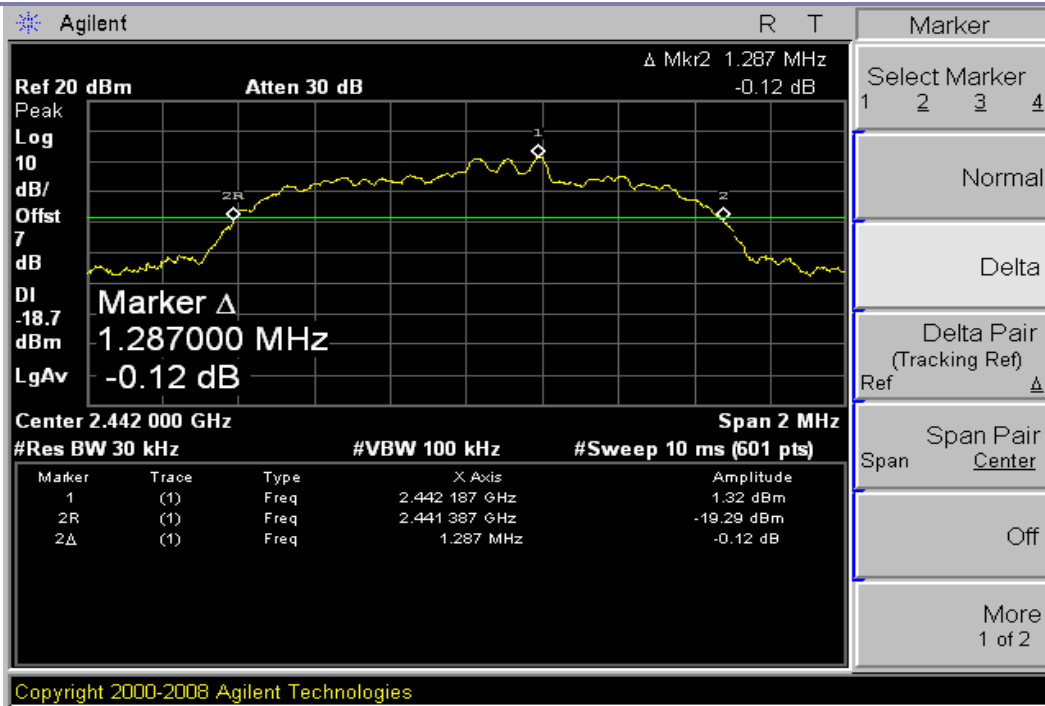
## Channel 78 (2480MHz)



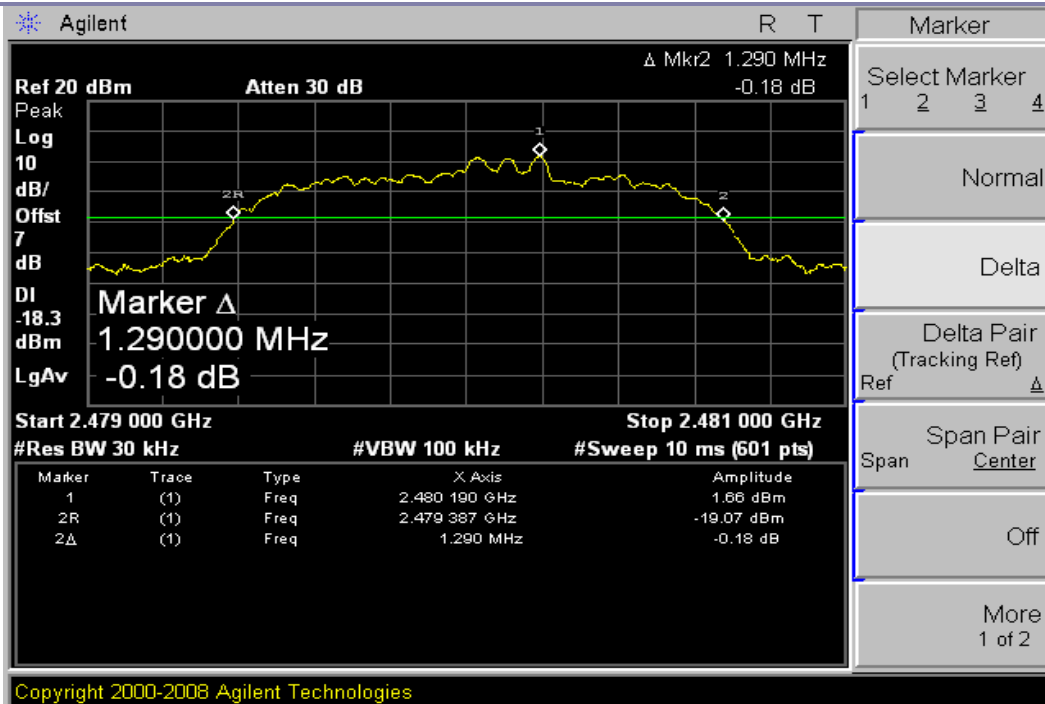
## Modulation: 8DPSK Channel 0 (2402MHz)



## Channel 40 (2442MHz)



## Channel 78 (2480MHz)





## **Appendix B**

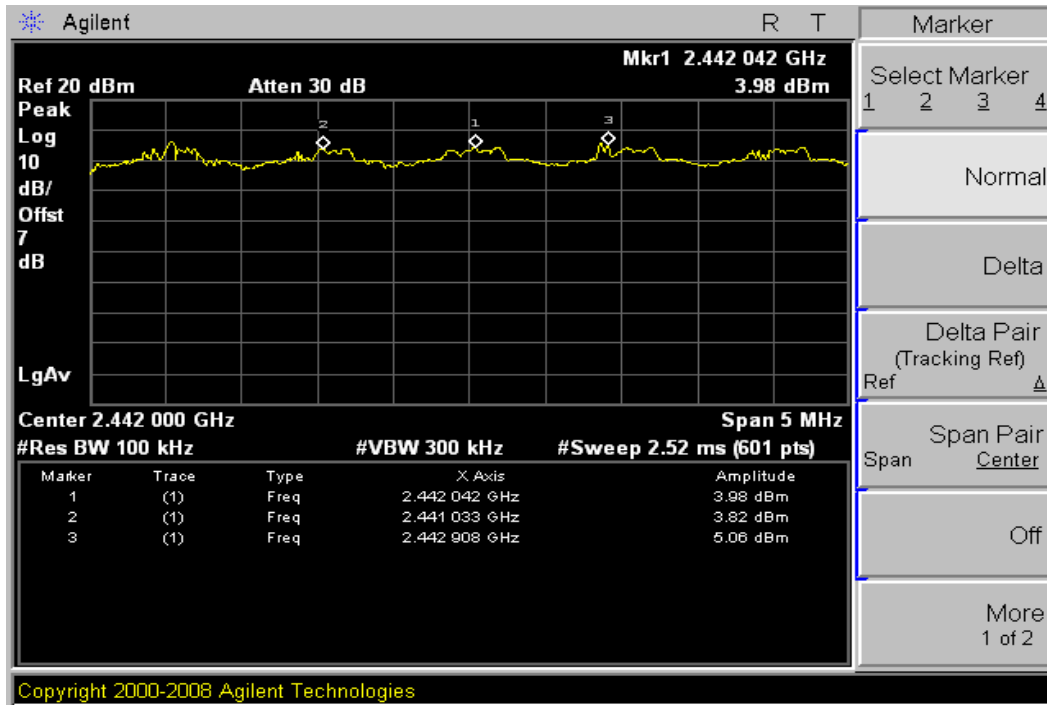
# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Modulation:  $\pi/4$ -DQPSK

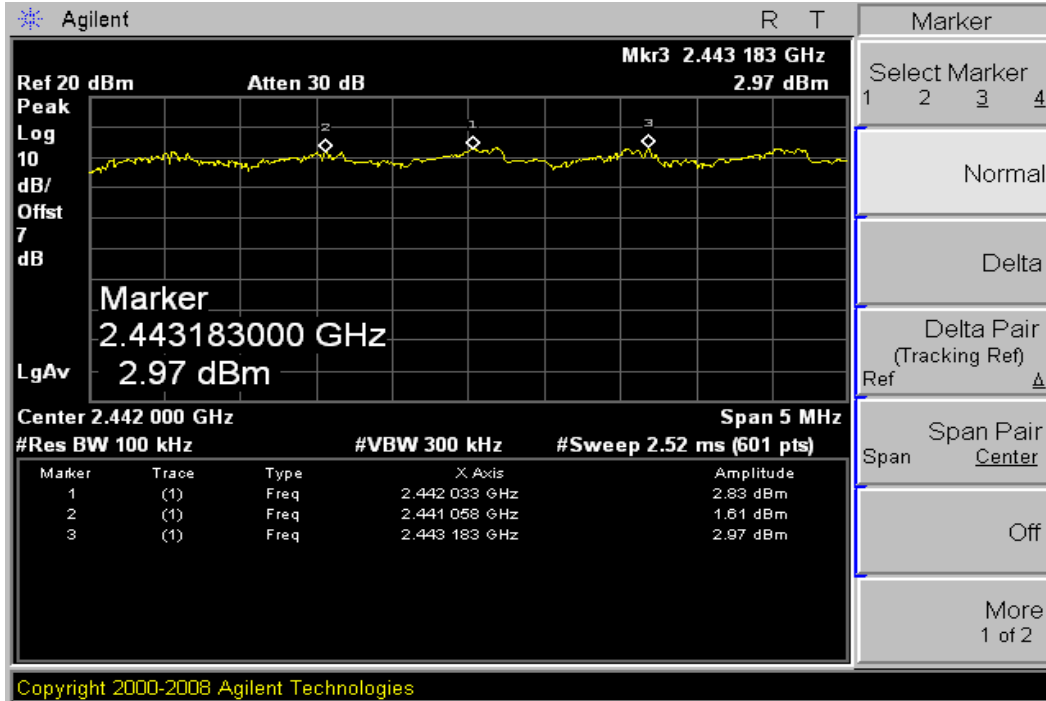
Centred at Channel 40



Modulation: 8DPSK



## Centred at Channel 40





## Appendix C

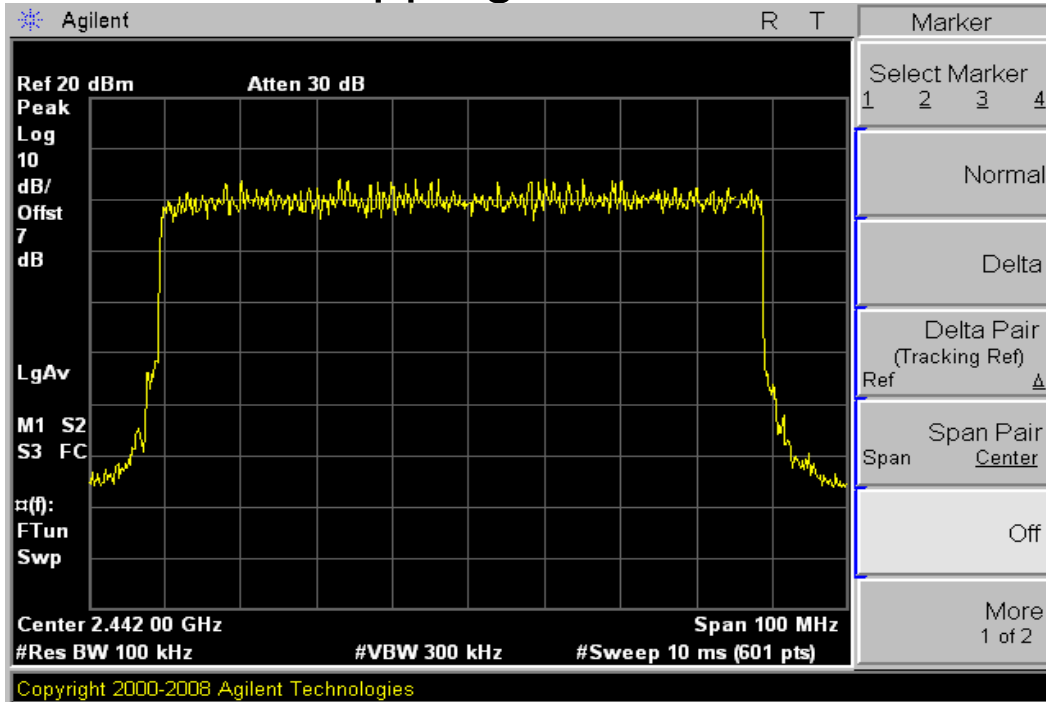
# Number of hopping channel

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



Modulation:  $\pi/4$ -DQPSK

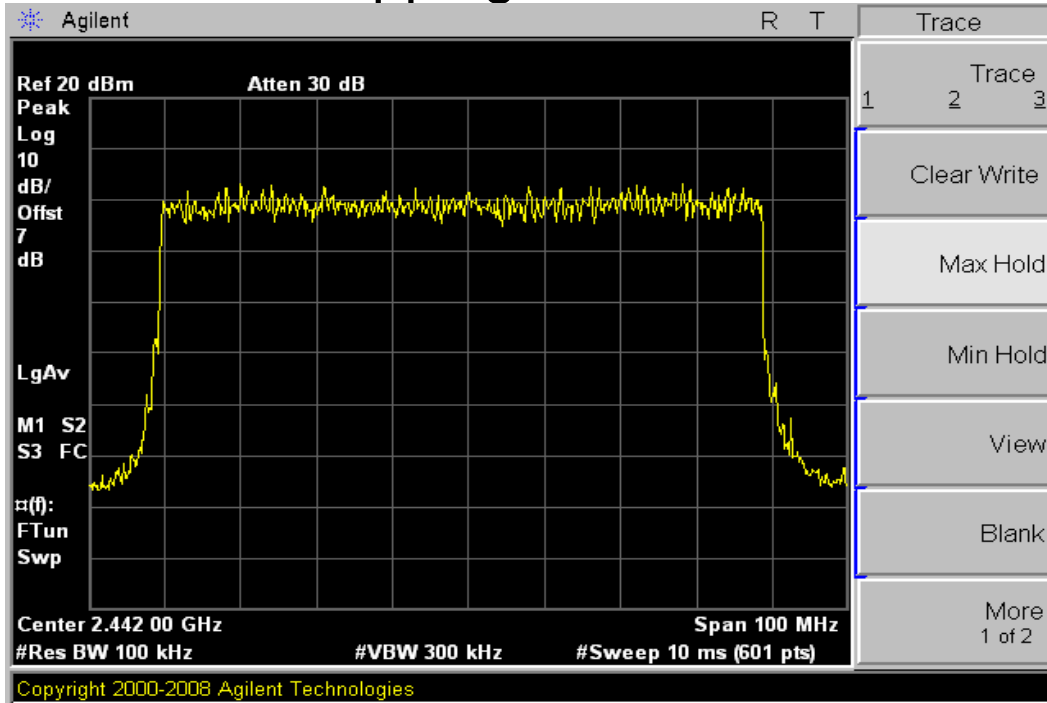
Total hopping channels = 79



Modulation: 8DPSK



# Total hopping channels = 79





# Appendix D

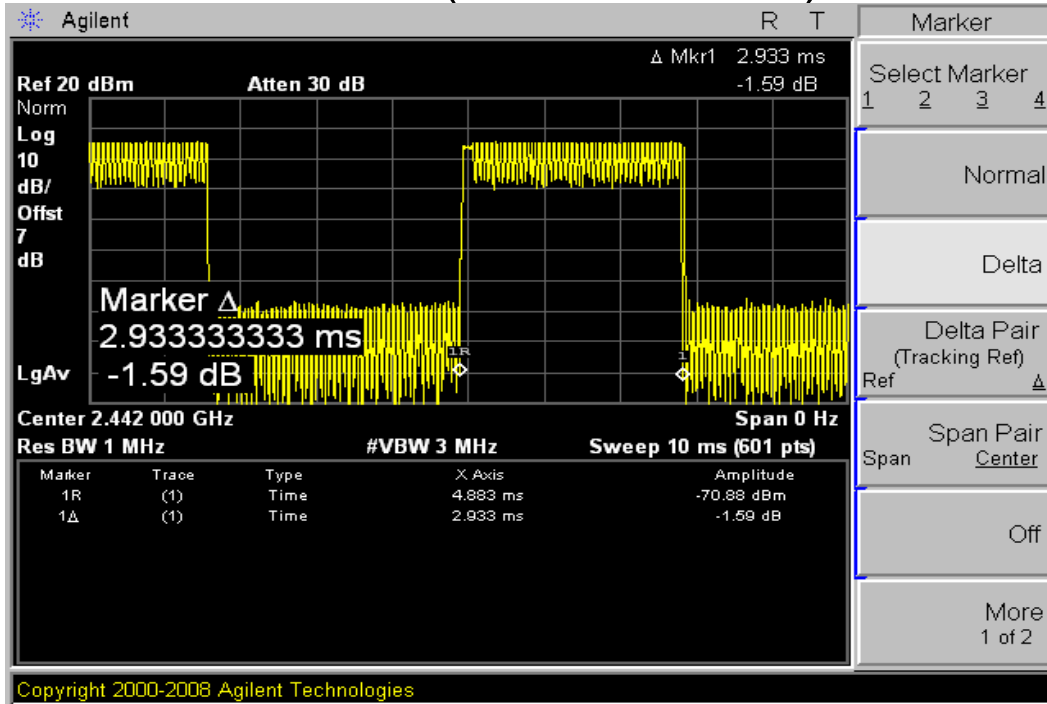
## Time of occupancy

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



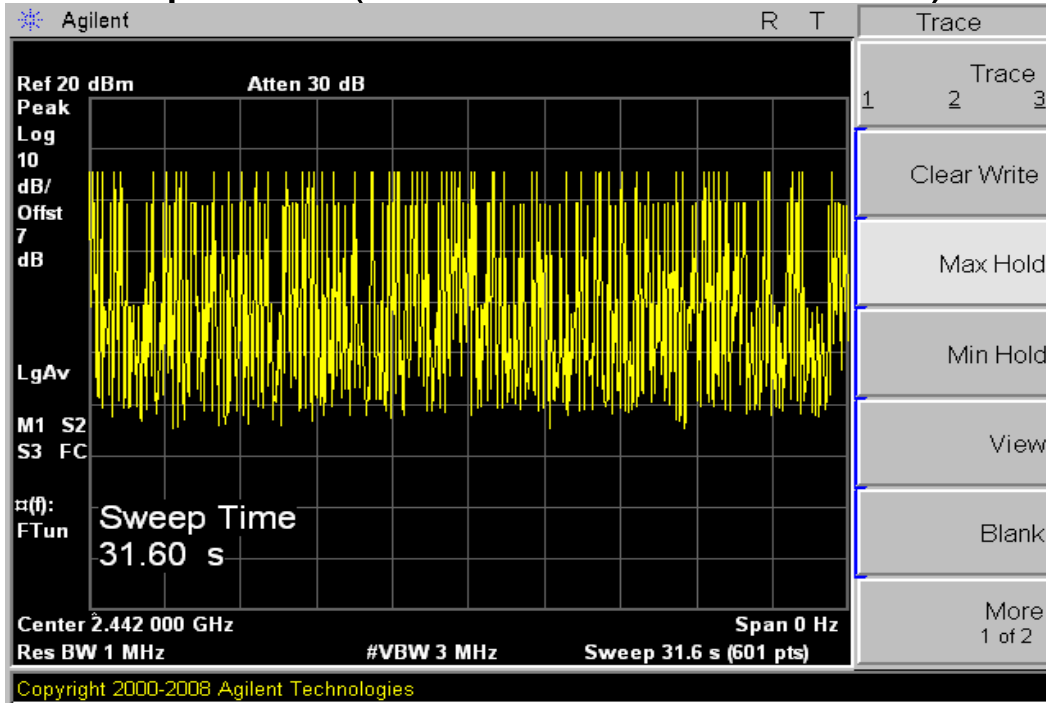
Modulation:  $\pi/4$ -DQPSK

A burst (One time slot)





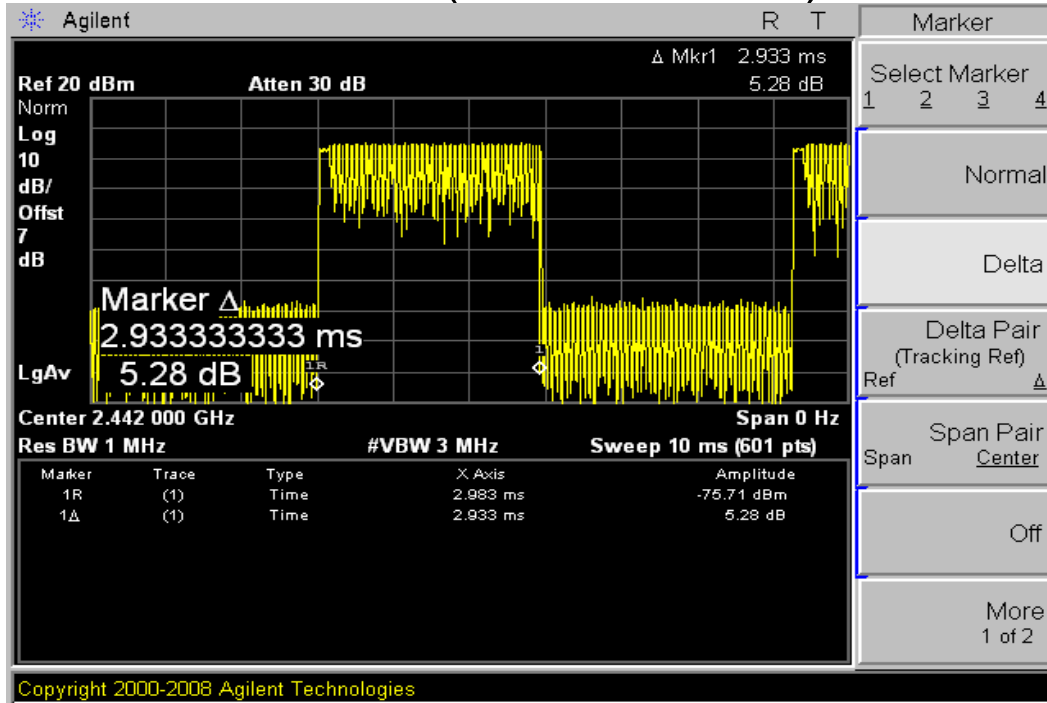
## A period (Less than 106.7 burst)



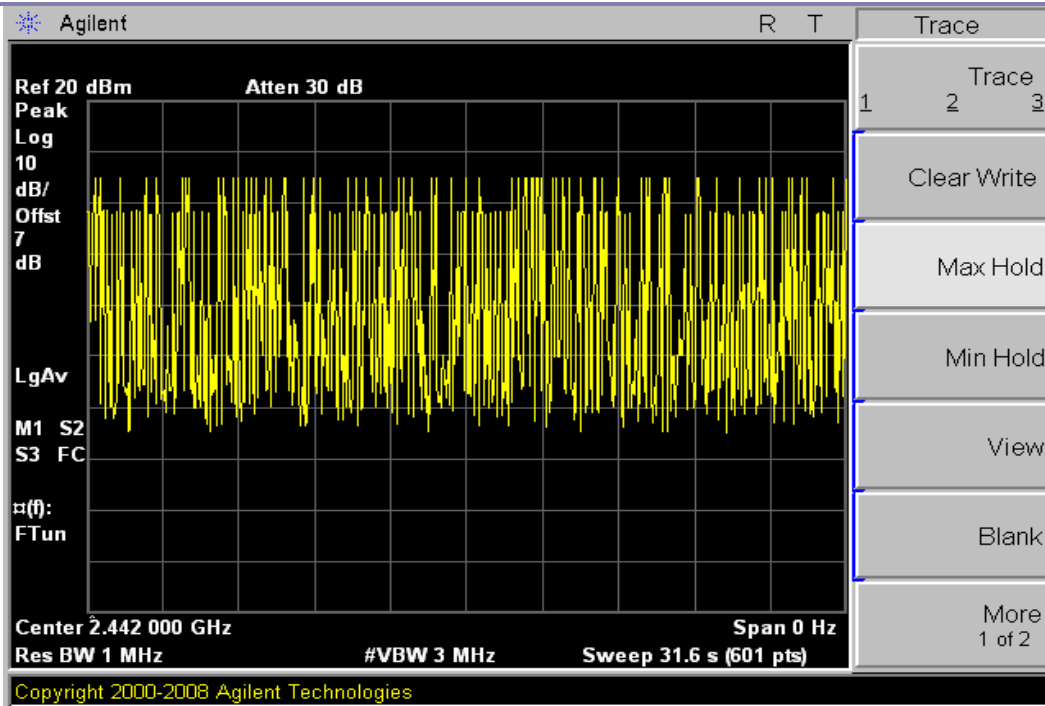
Modulation: 8DPSK



## A burst (One time slot)



## A period (Less than 106.7 burst)





# Appendix E

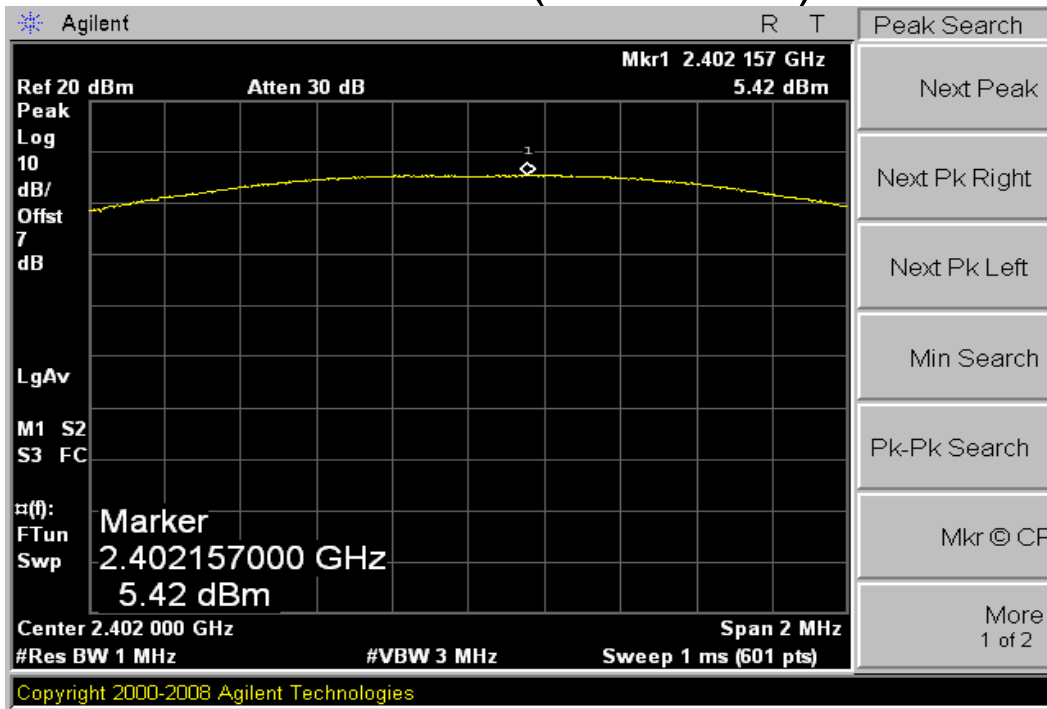
## Peak output power

According to FCC Part 15.247 (b) (1)



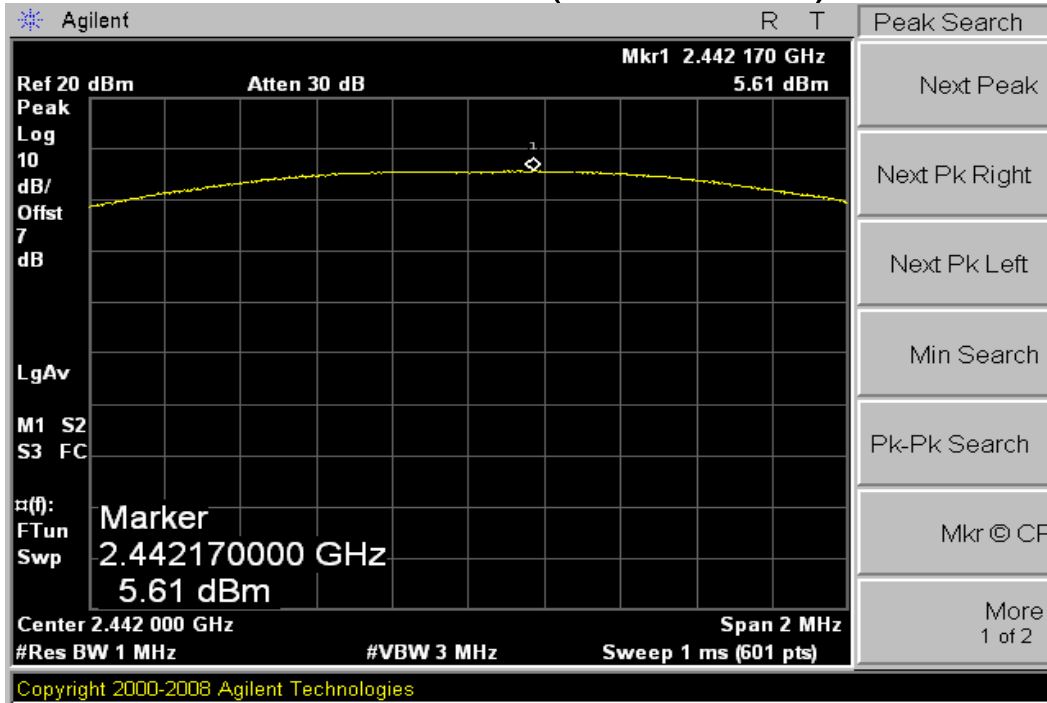
Modulation:  $\pi/4$ -DQPSK

Channel 0 (2402MHz)



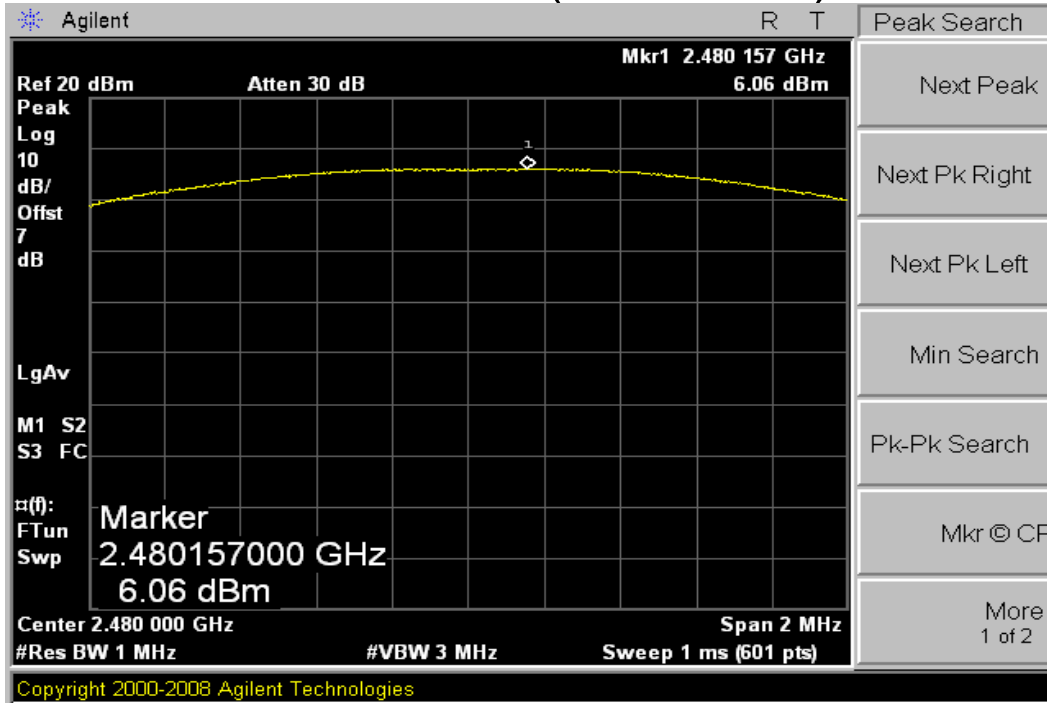


# Channel 40 (2442MHz)

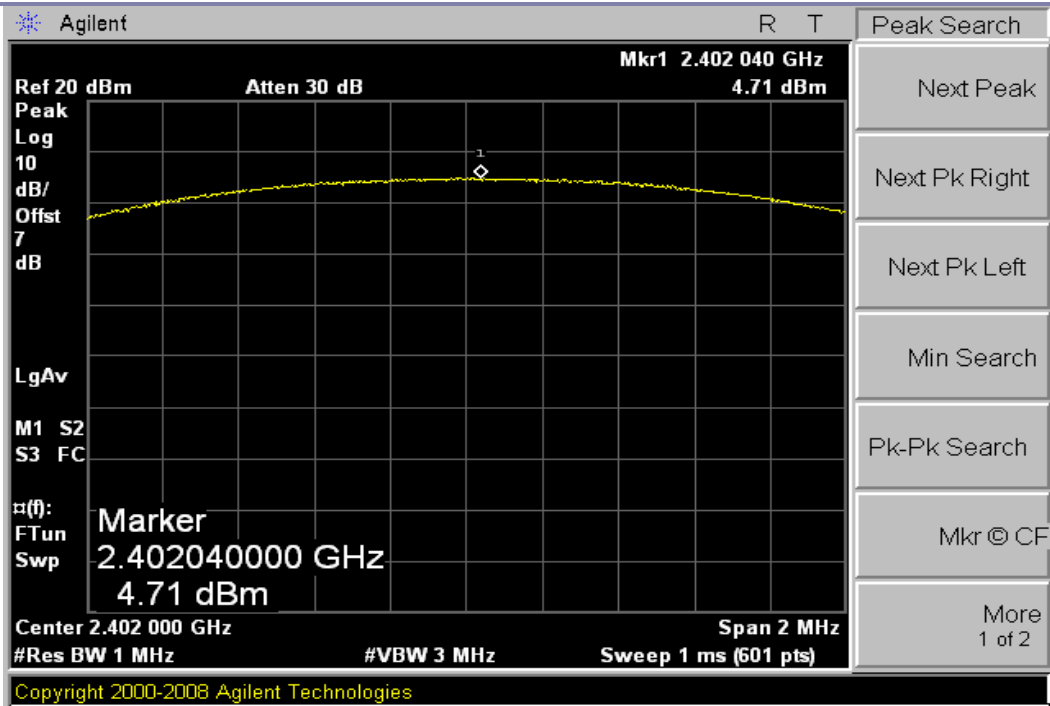




## Channel 78 (2480MHz)



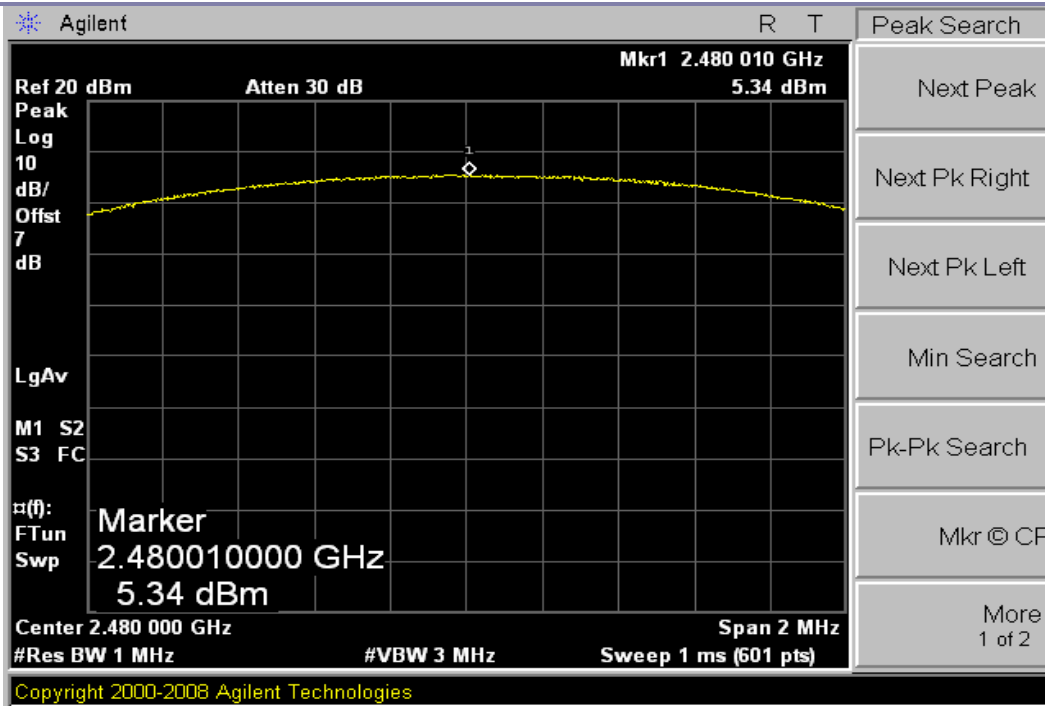
Modulation: 8DPSK  
Channel 0 (2402MHz)



## Channel 40 (2442MHz)



## Channel 78 (2480MHz)





# Appendix F

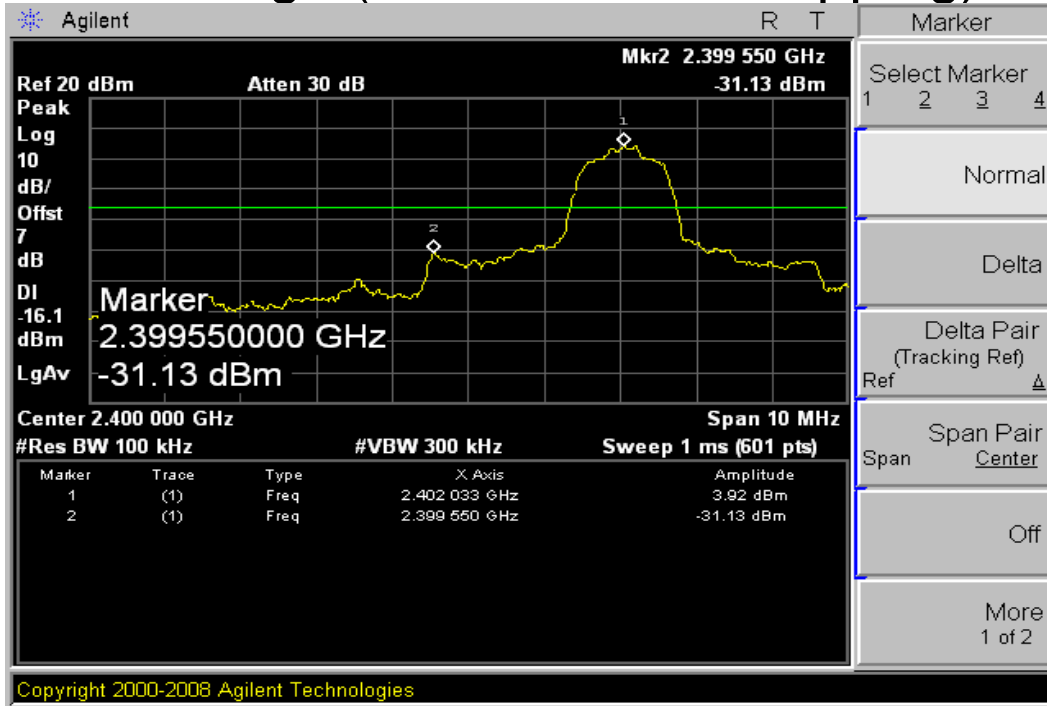
## Band edge spurious emission

According to FCC Part 15.247 (d)



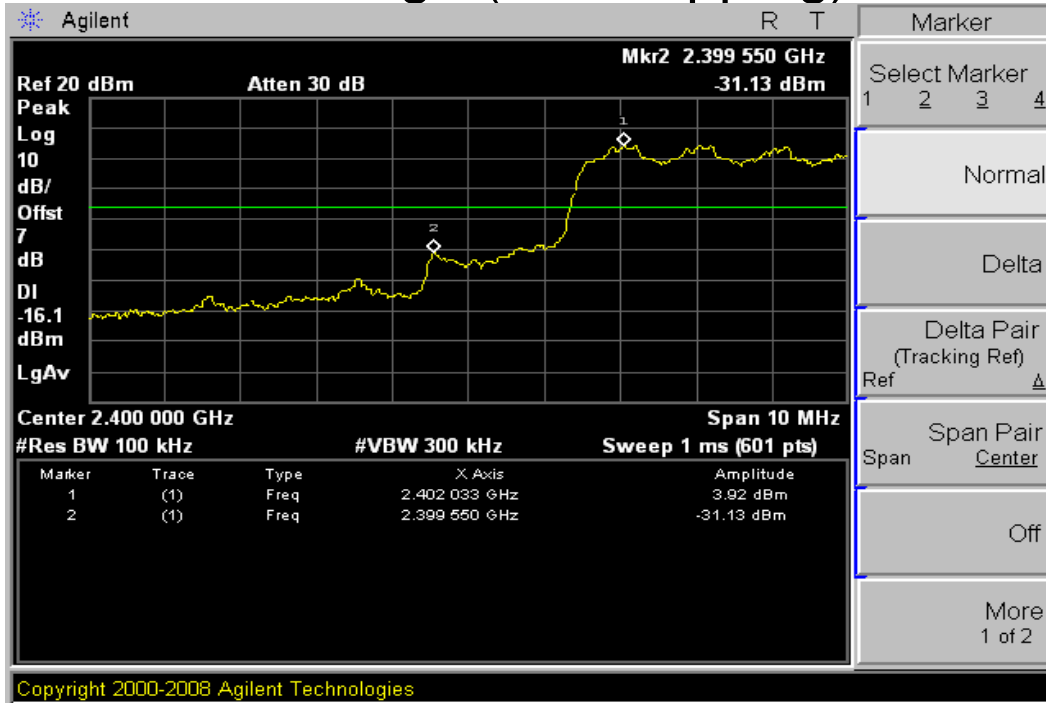
Modulation:  $\pi/4$ -DQPSK

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



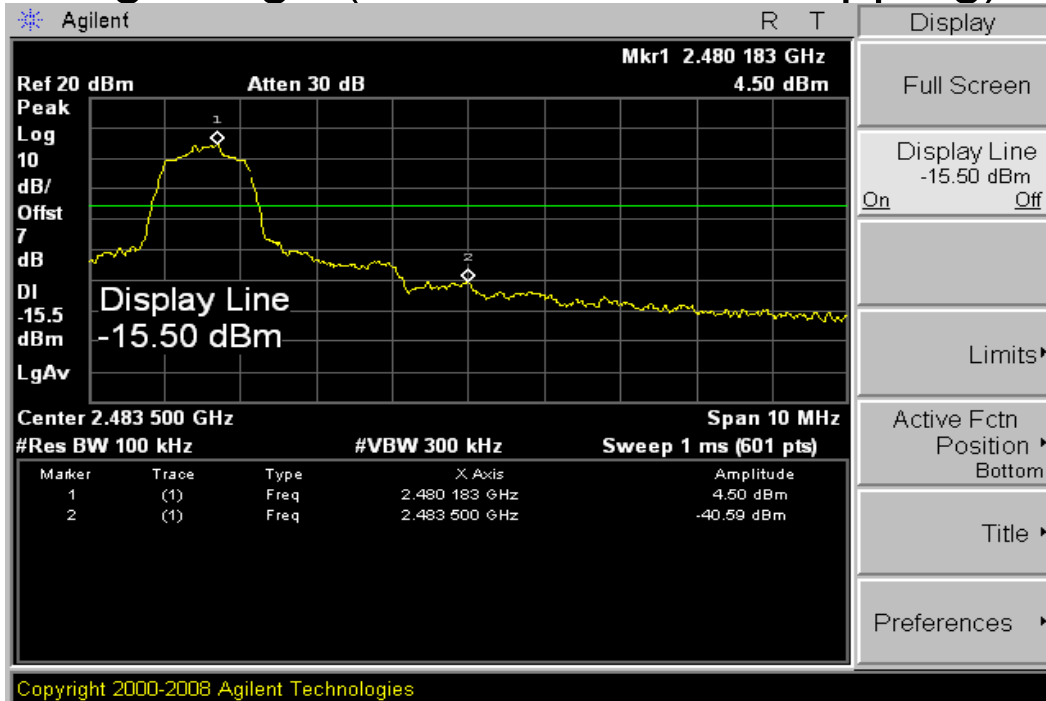


# Low edge (with hopping)



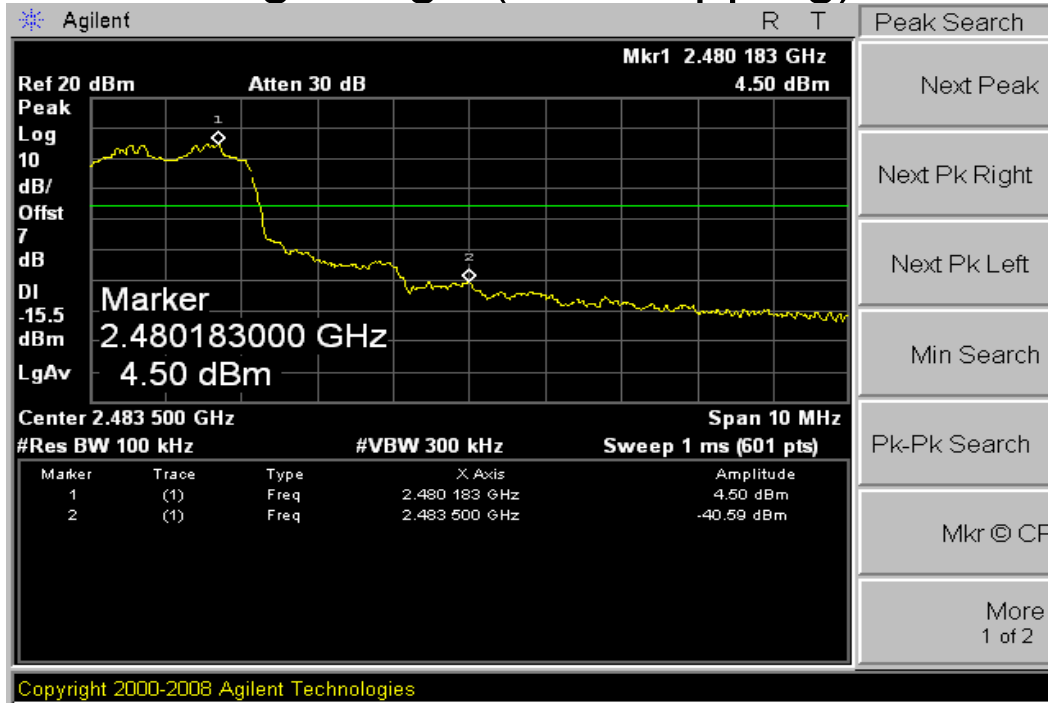


# High edge (Channel 78, no hopping)



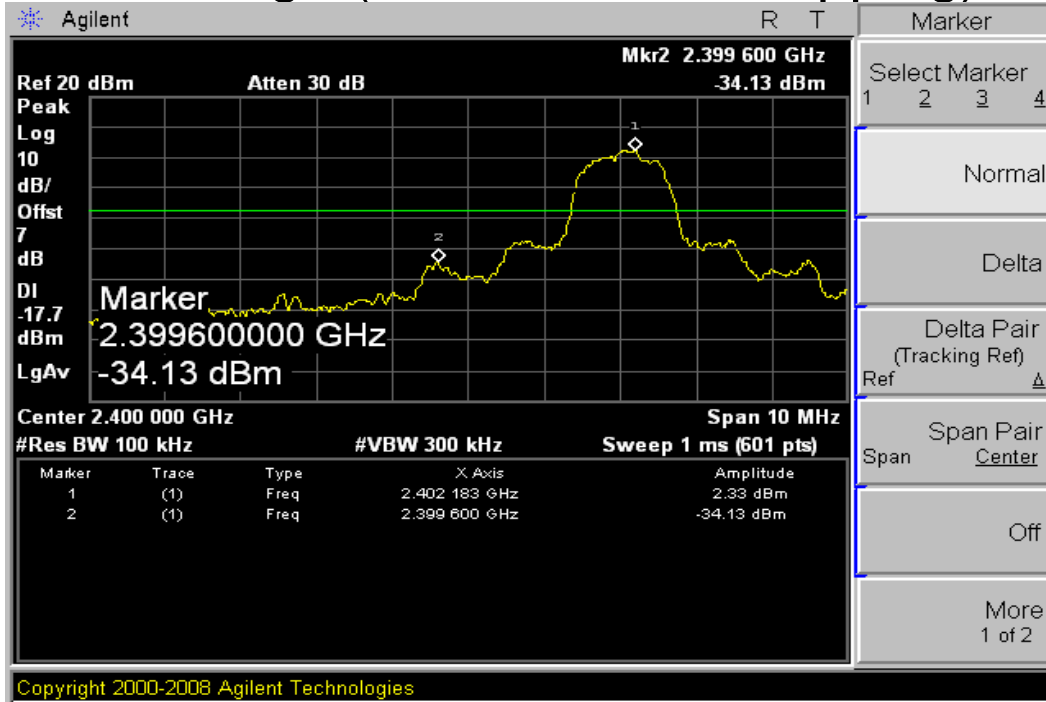


# High edge (with hopping)

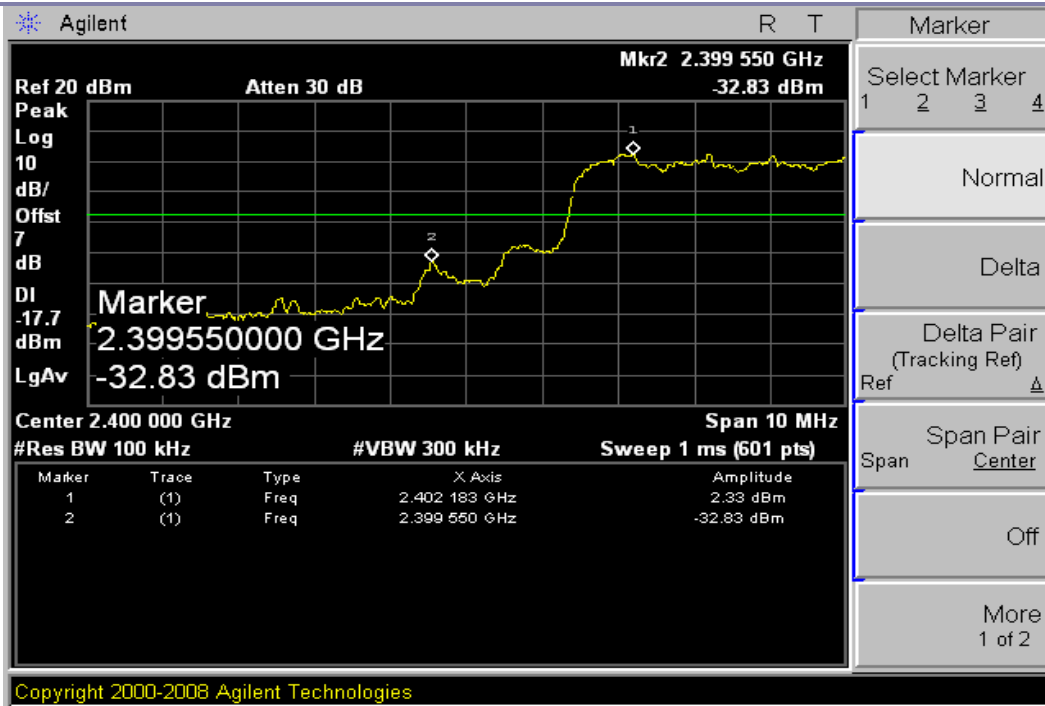




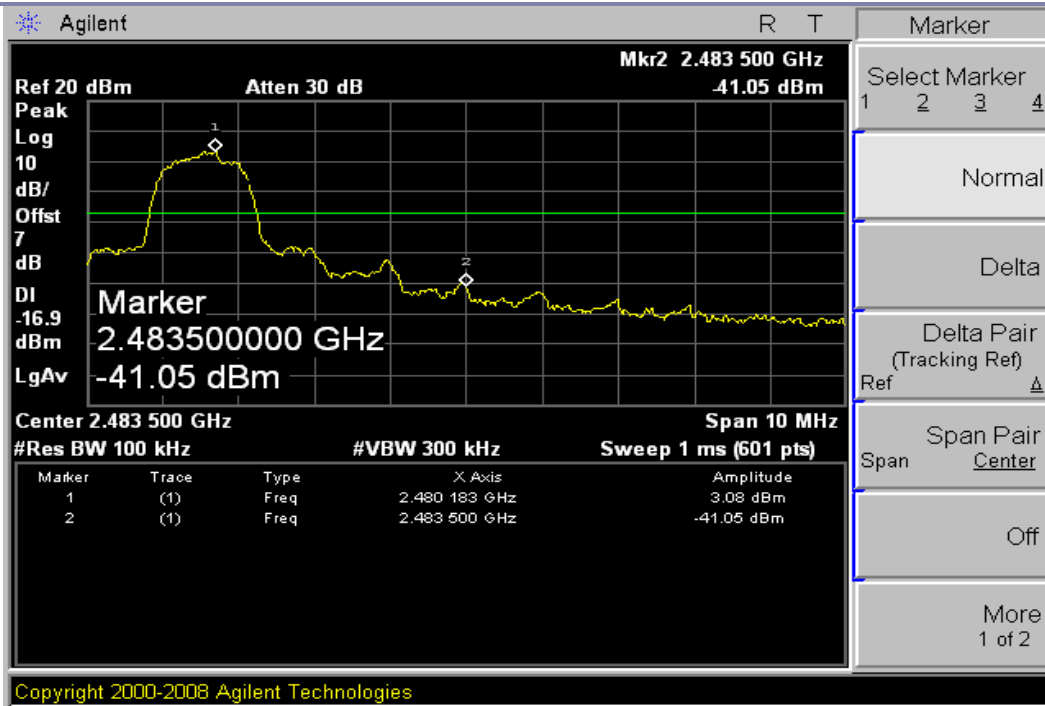
## Modulation: 8DPSK Low edge (Channel 0, no hopping)



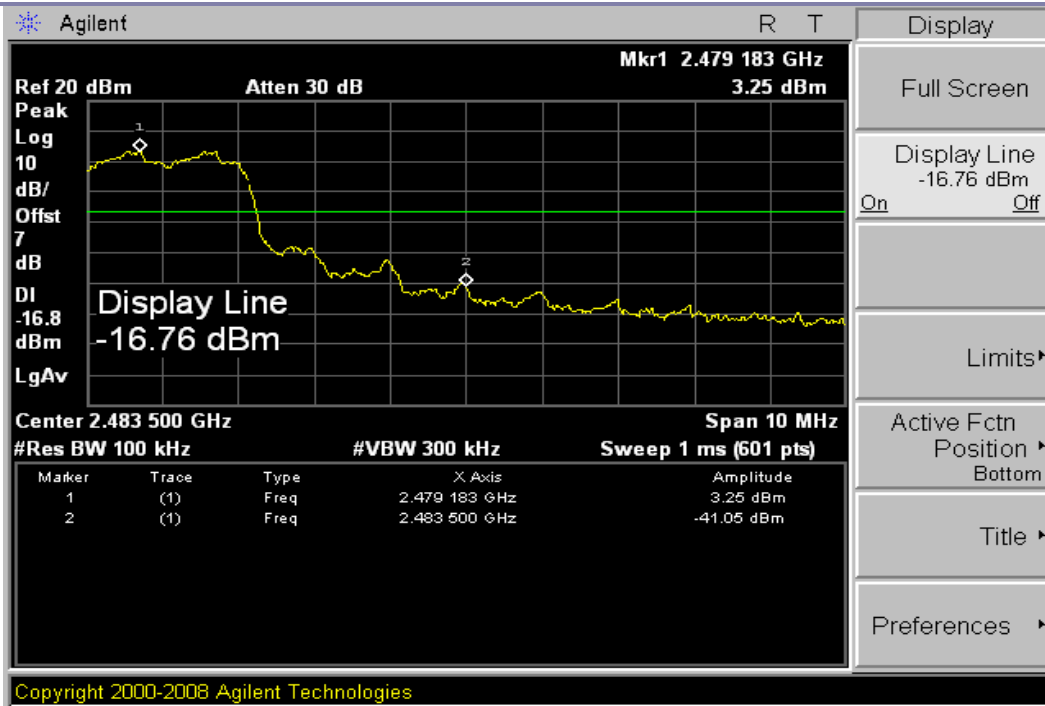
## Low edge (with hopping)



High edge (Channel 78, no hopping)



High edge (with hopping)





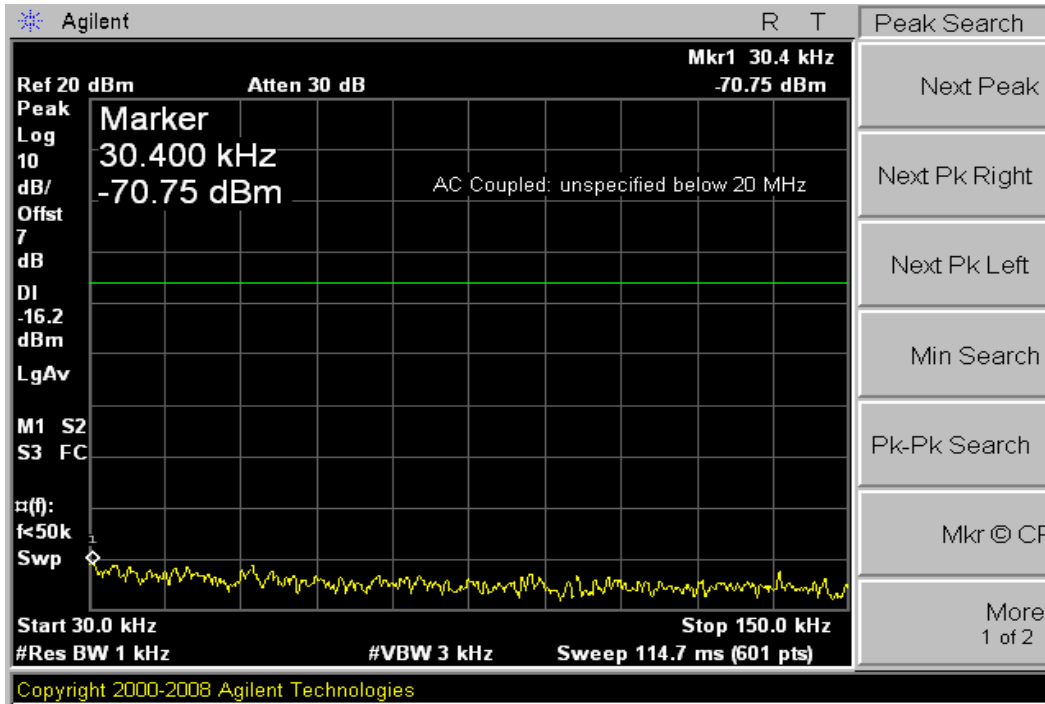
# Appendix G

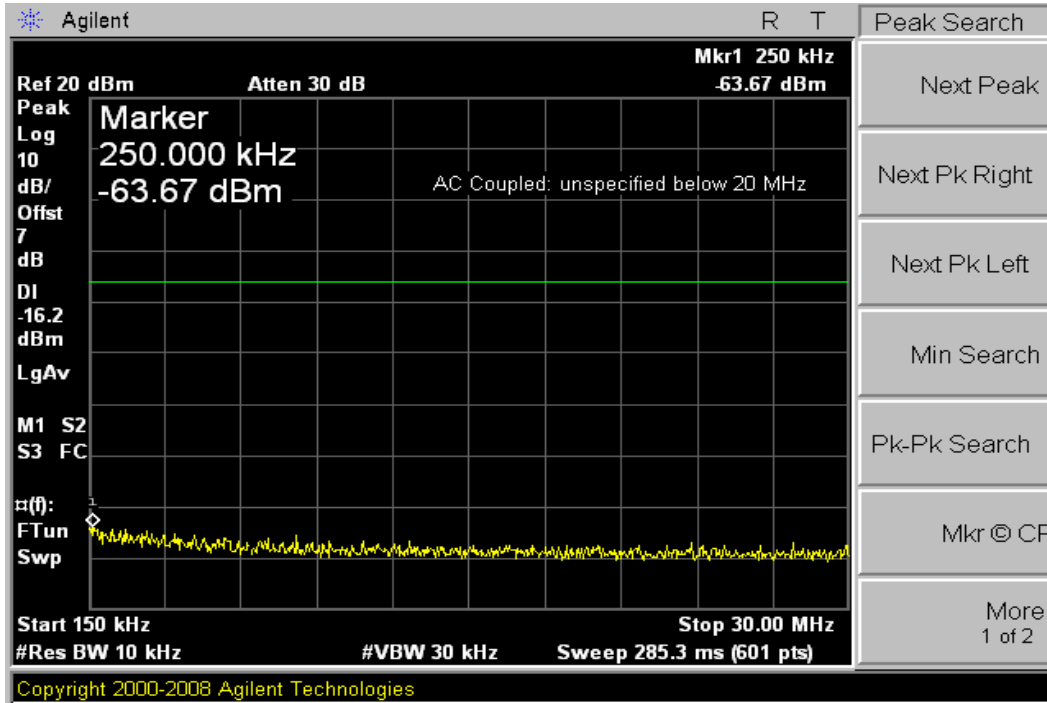
## Conducted RF spurious

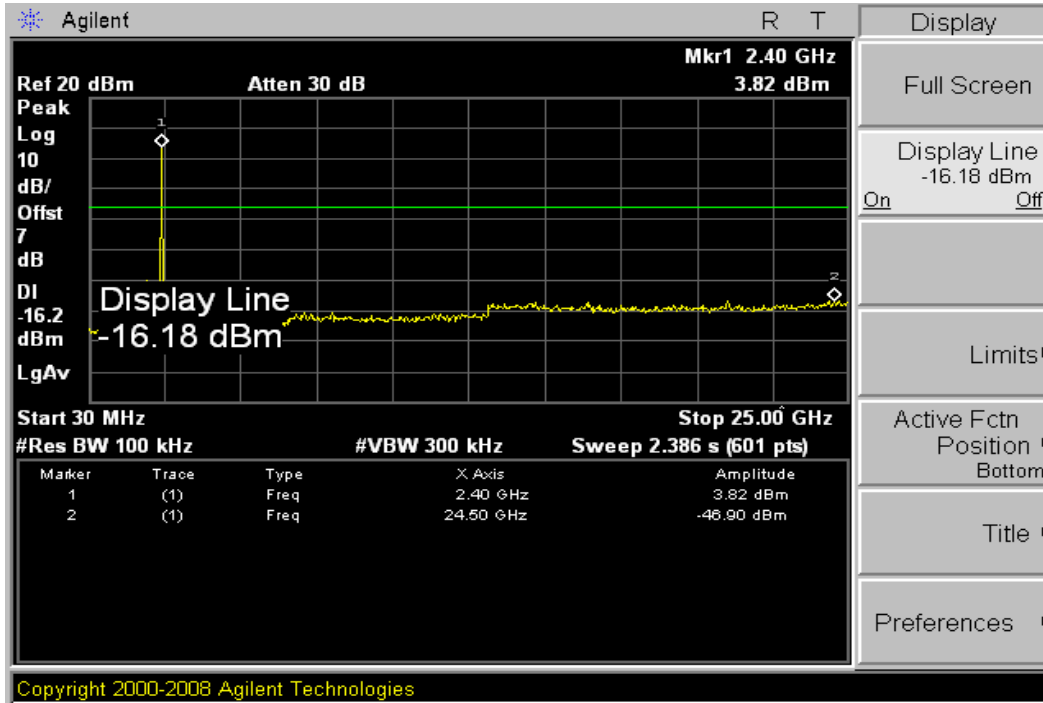
According to FCC Part 15.247 (d)



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

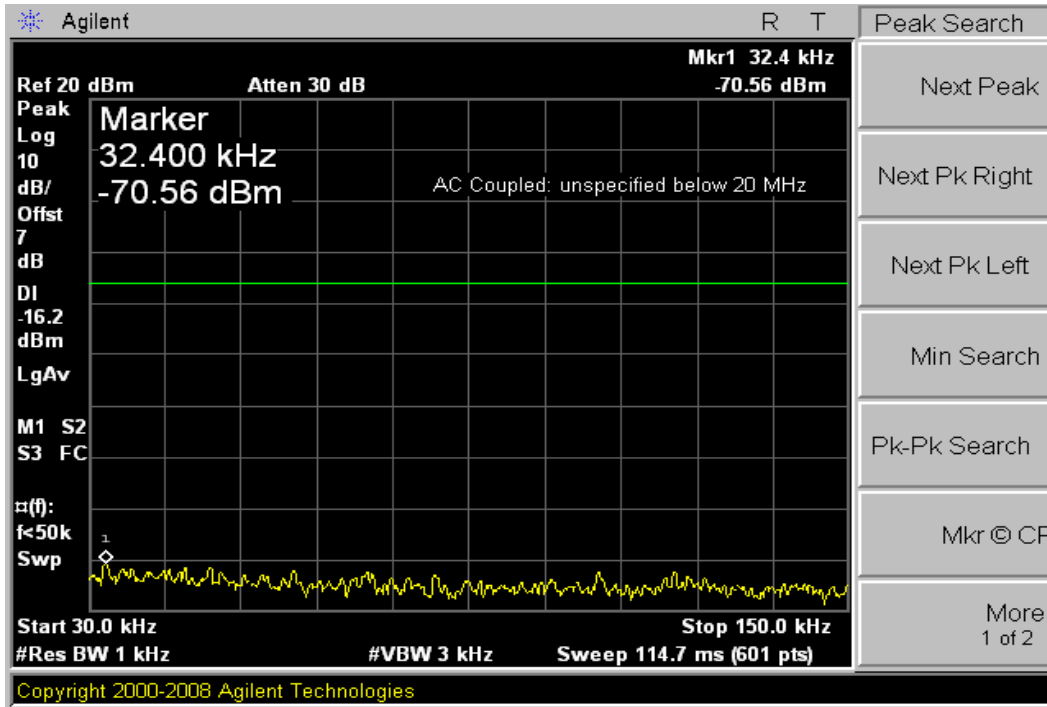


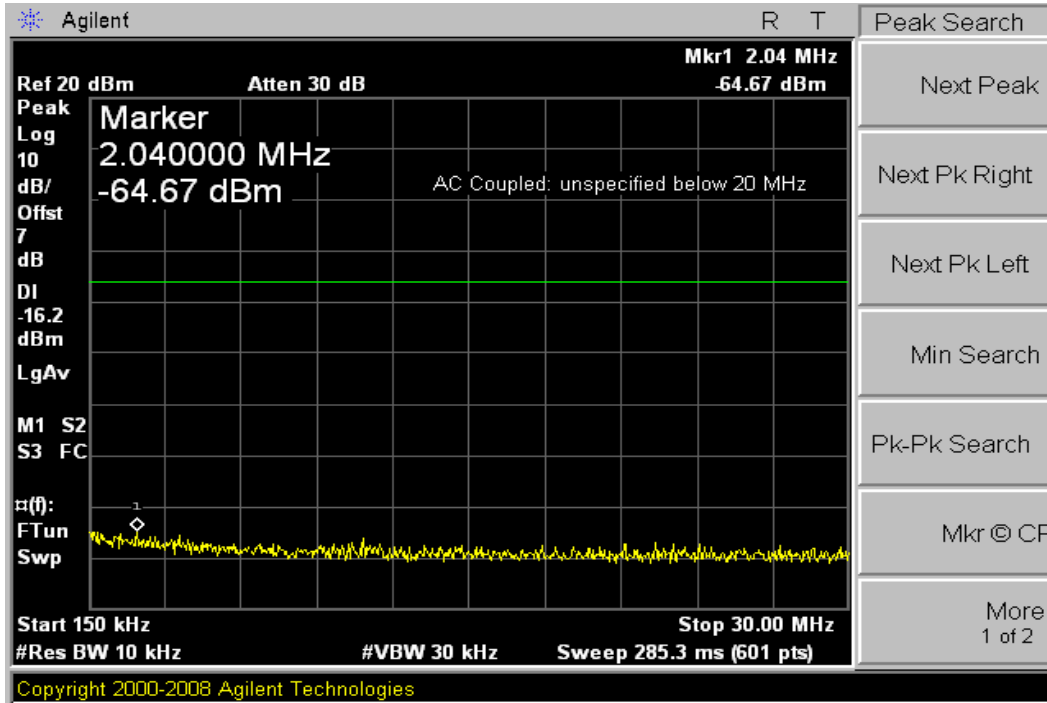


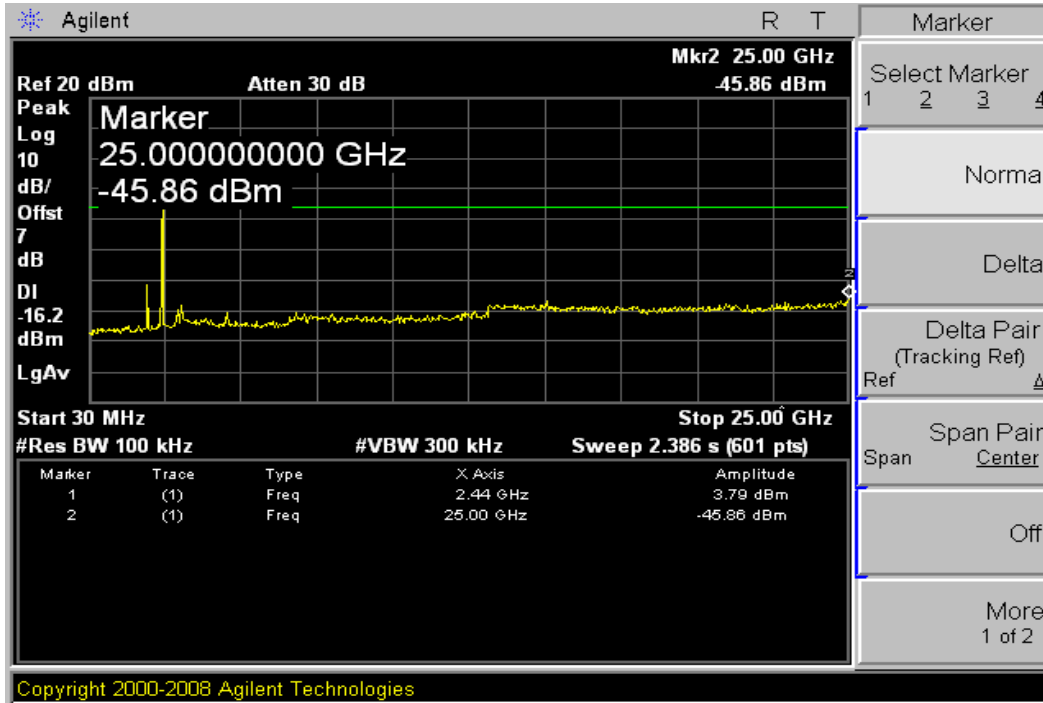




# Channel 40

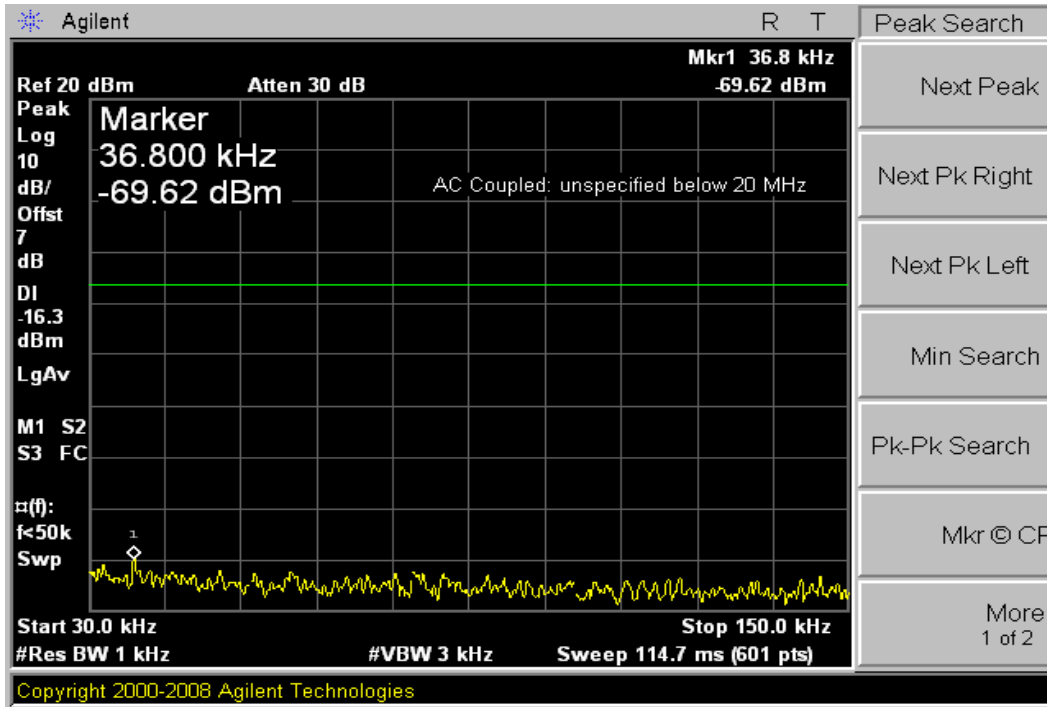


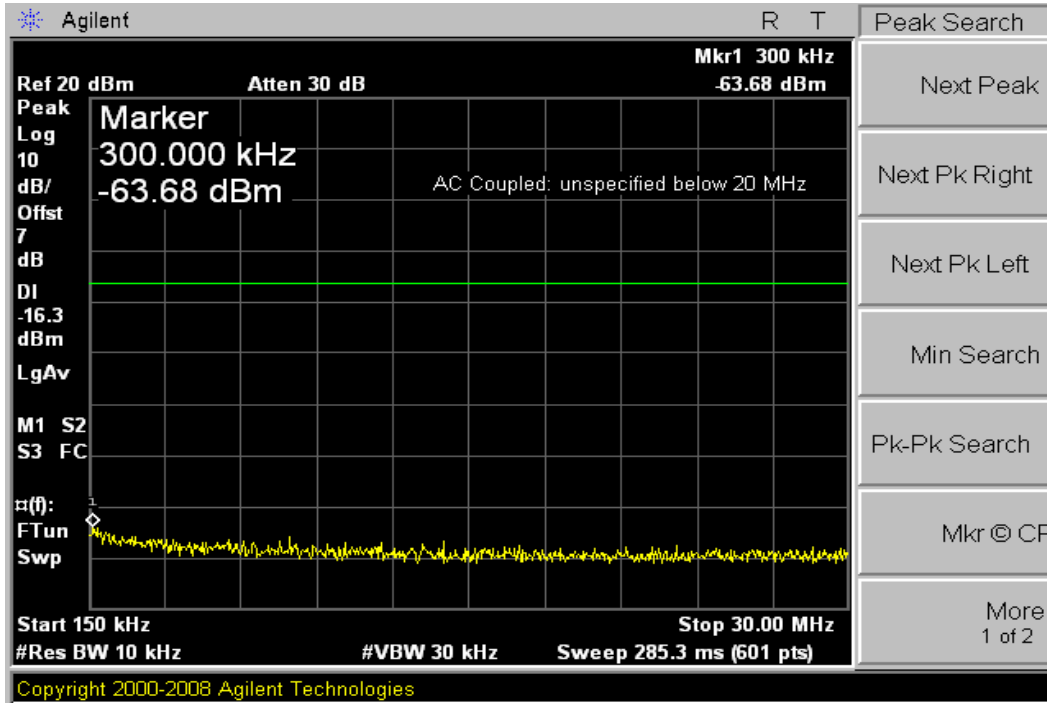


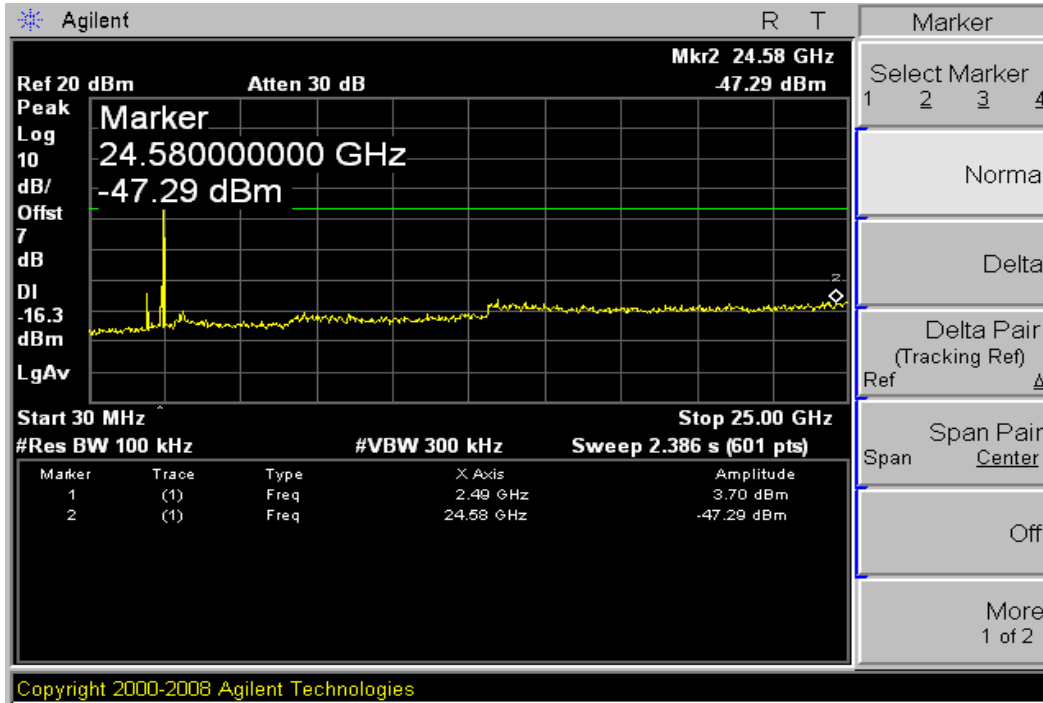




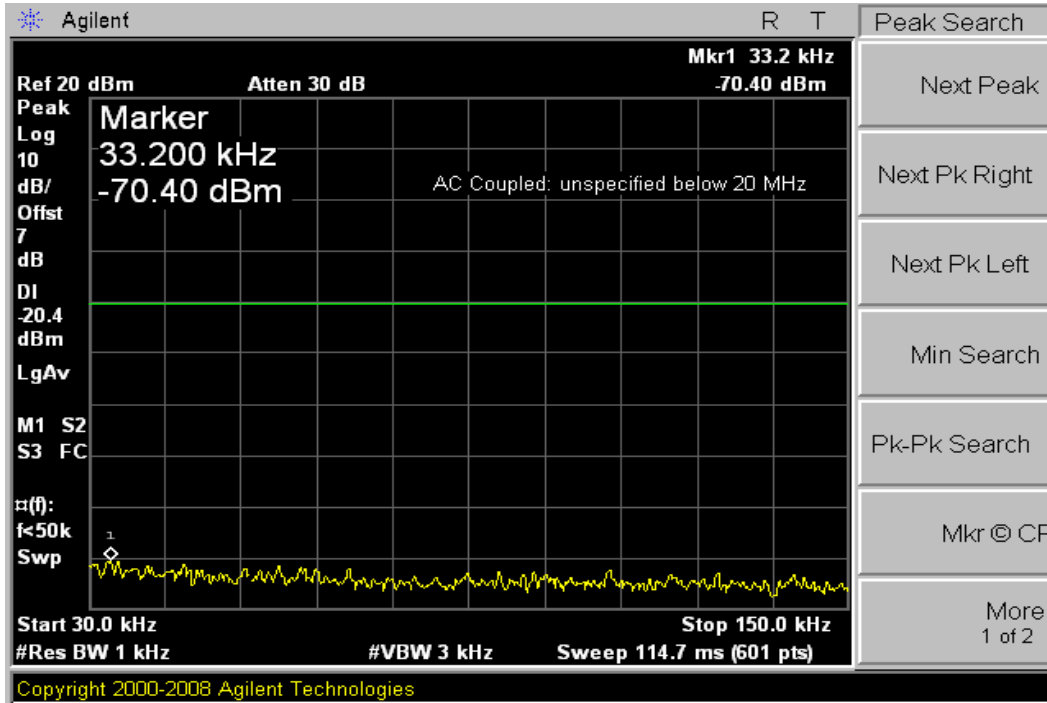
# Channel 78

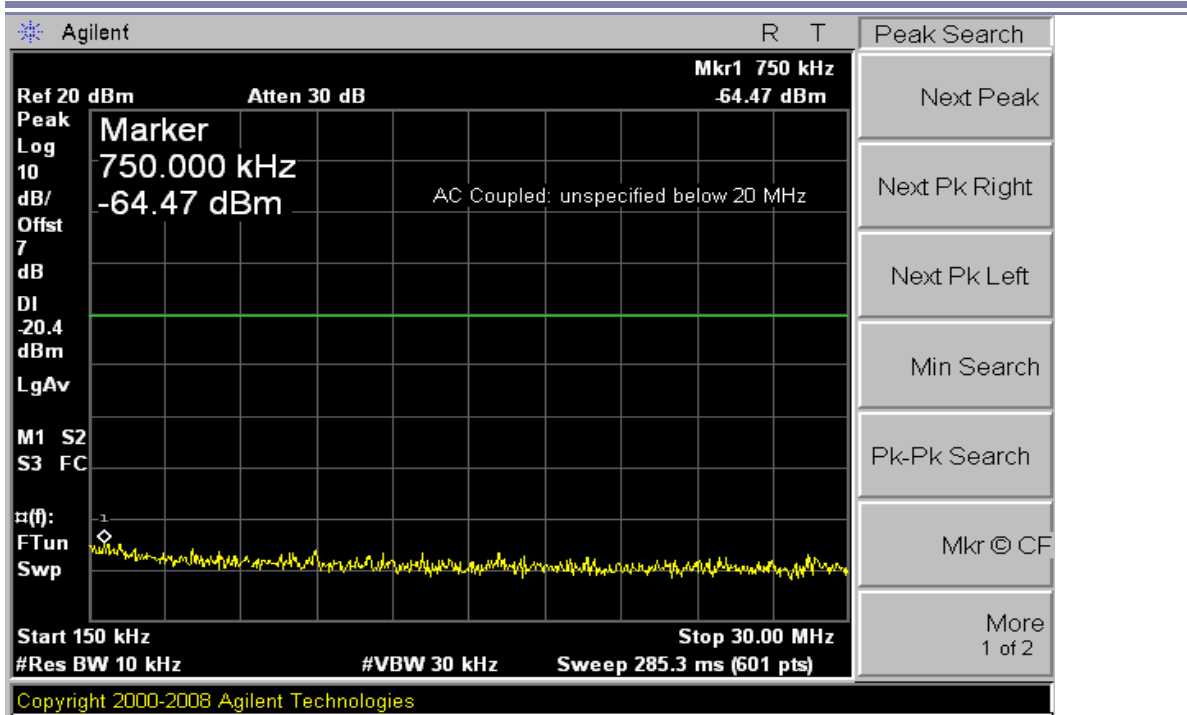


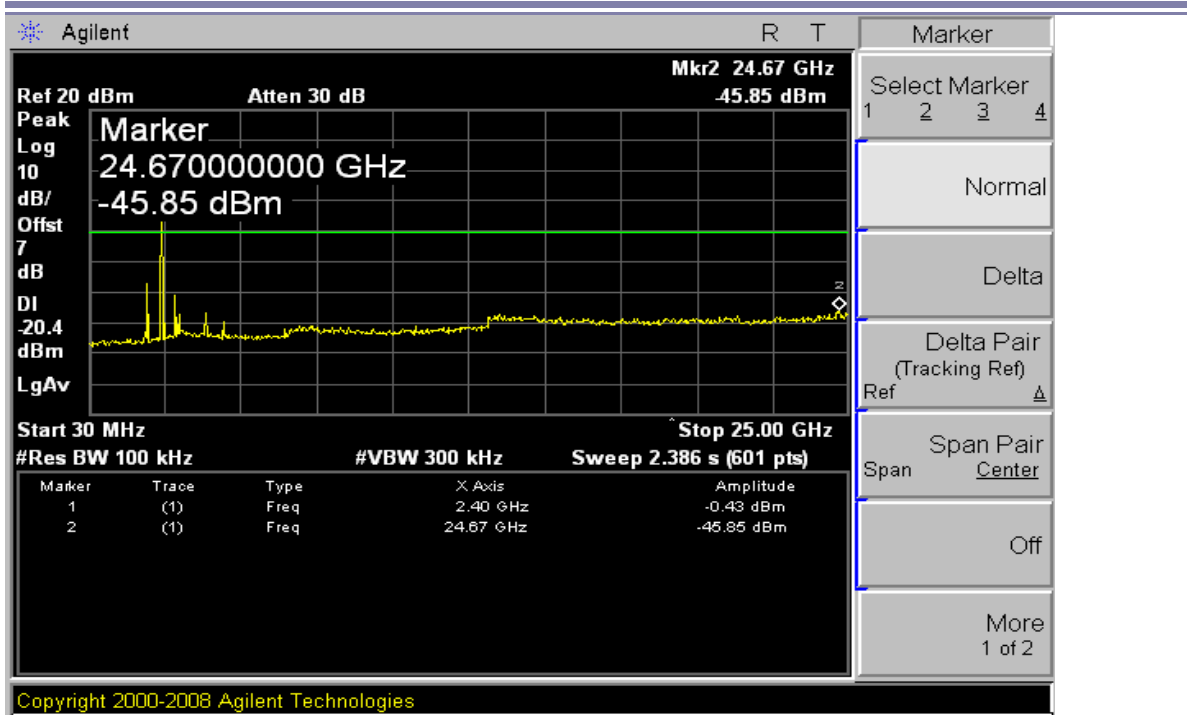




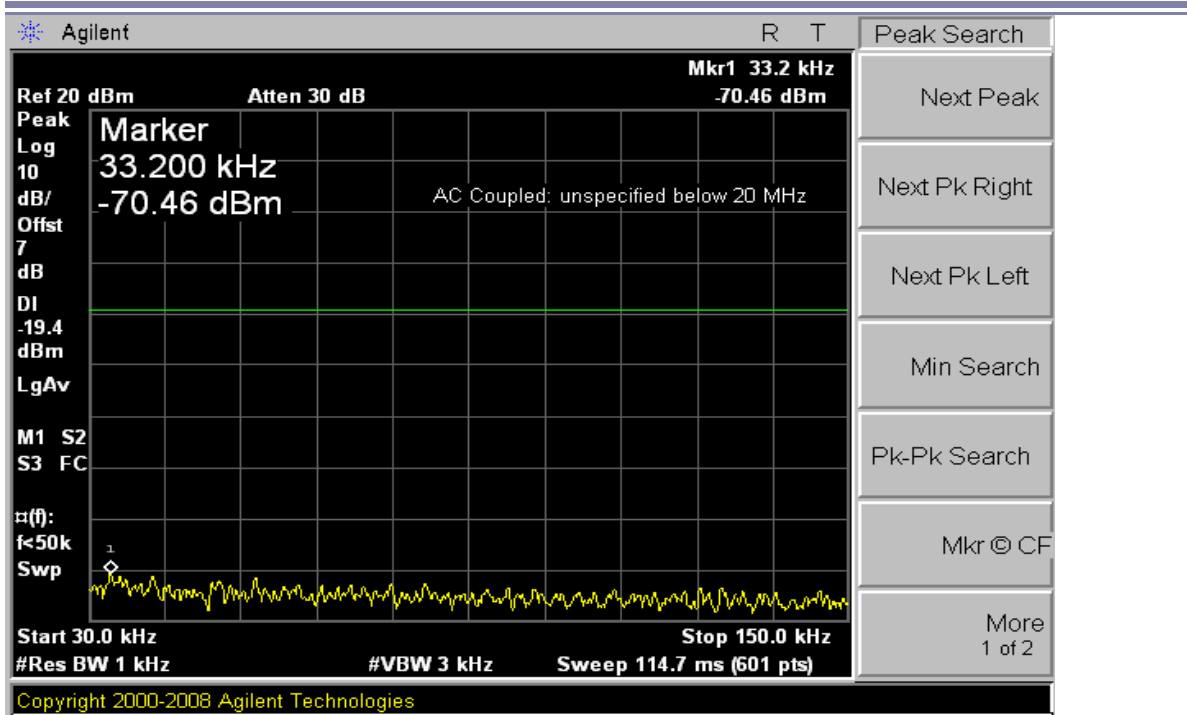
## (Modulation: 8DPSK) Channel 0

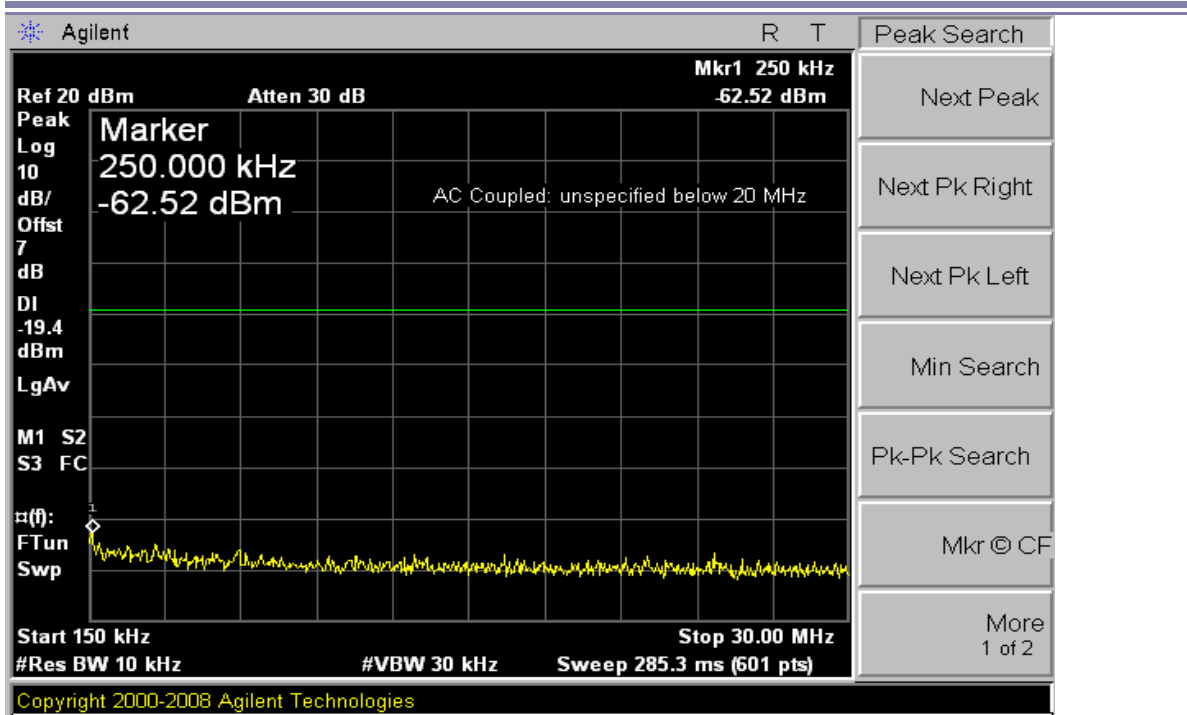


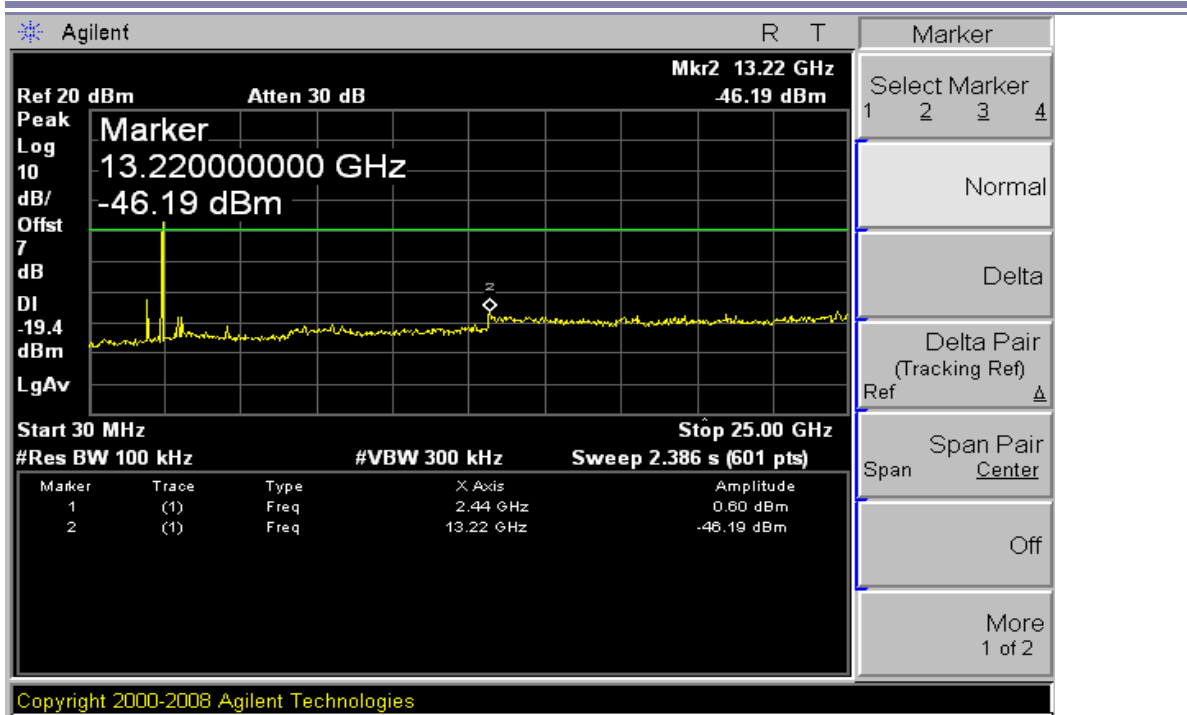




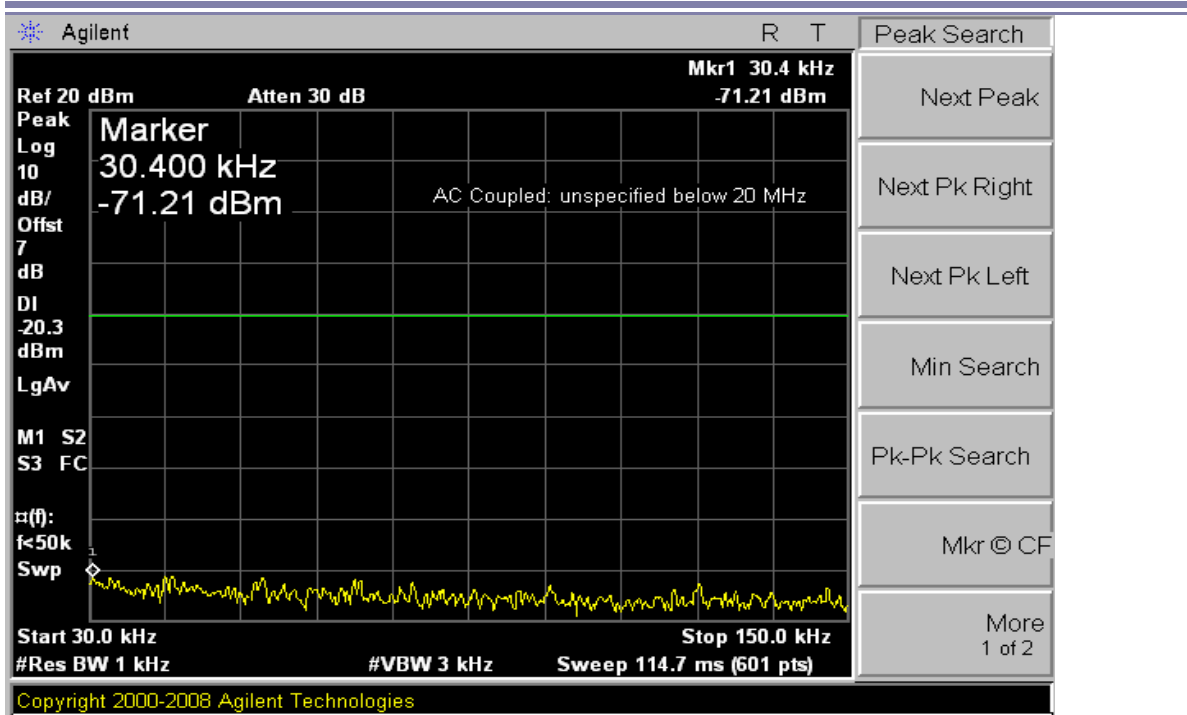
## Channel 40

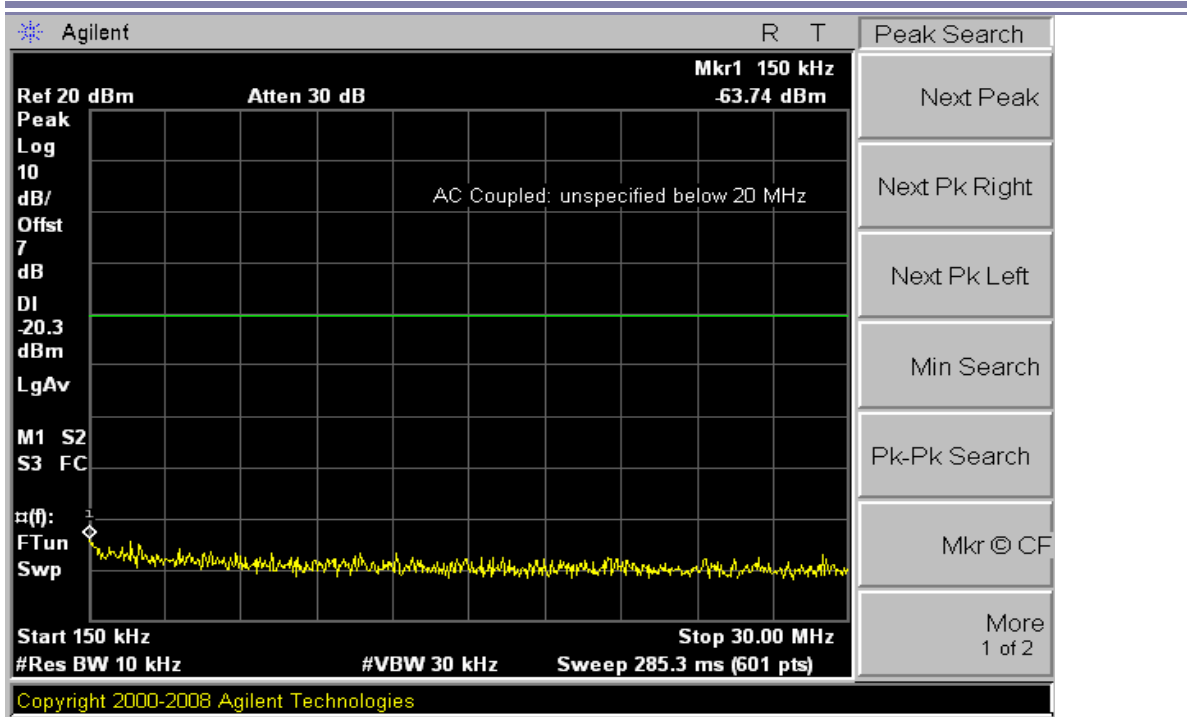


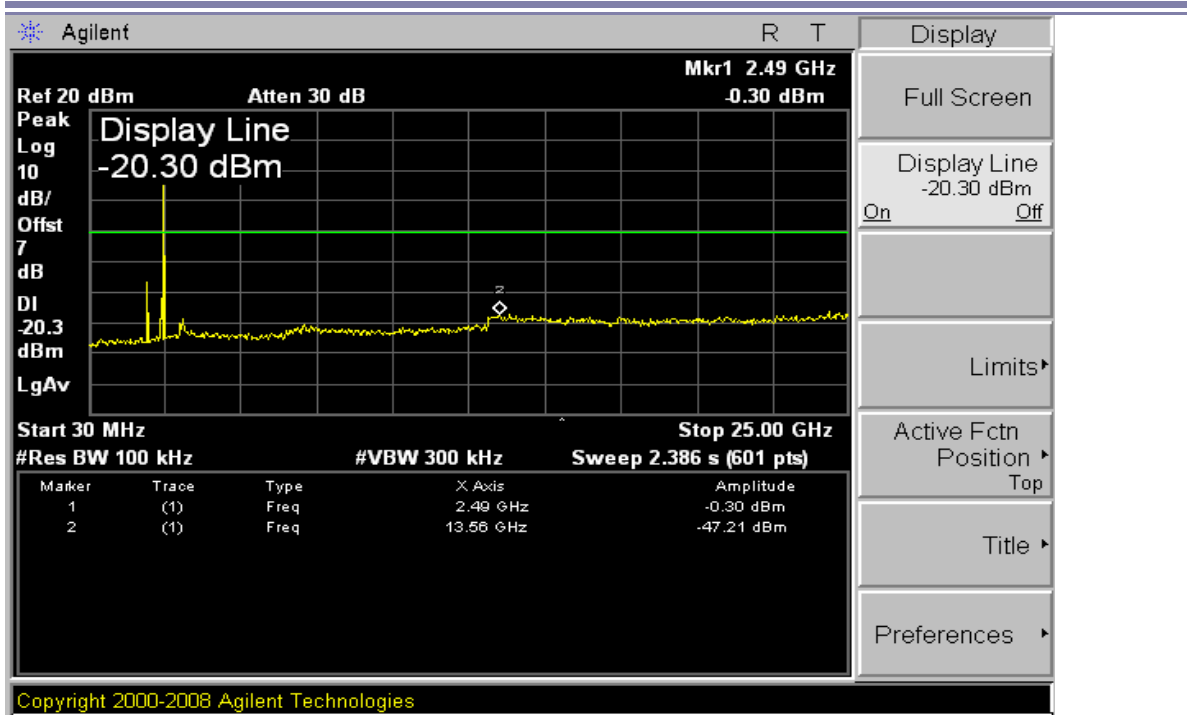




## Channel 78









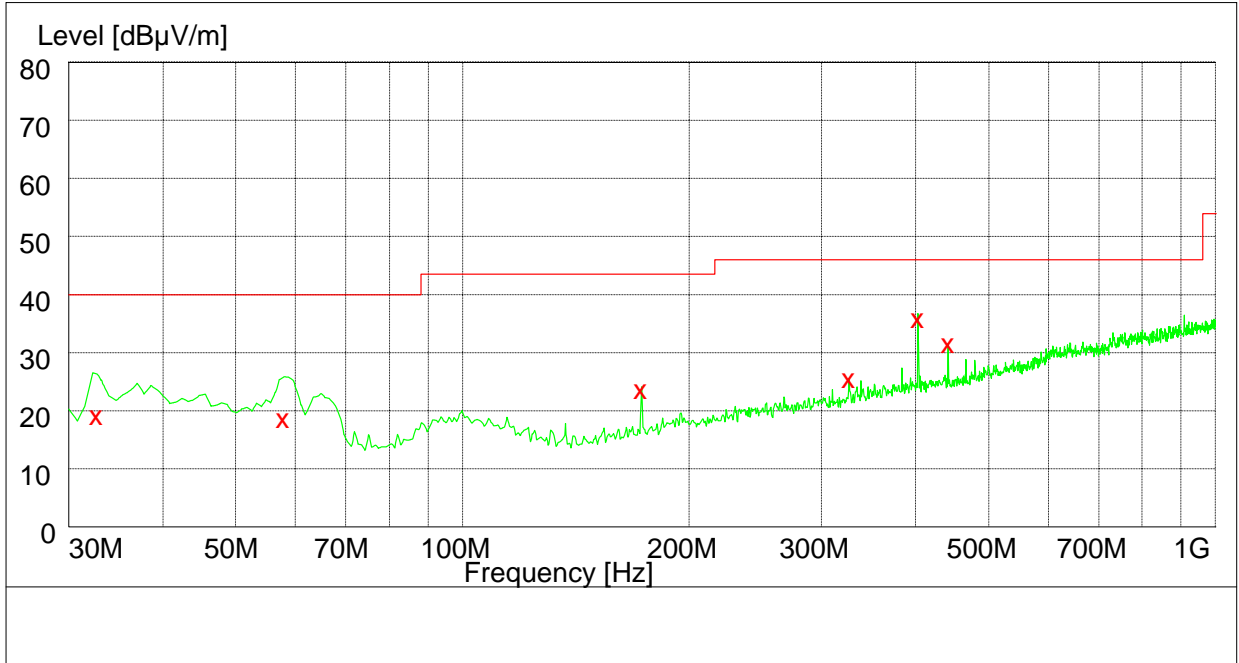
# Appendix H

## Radiated spurious emission

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



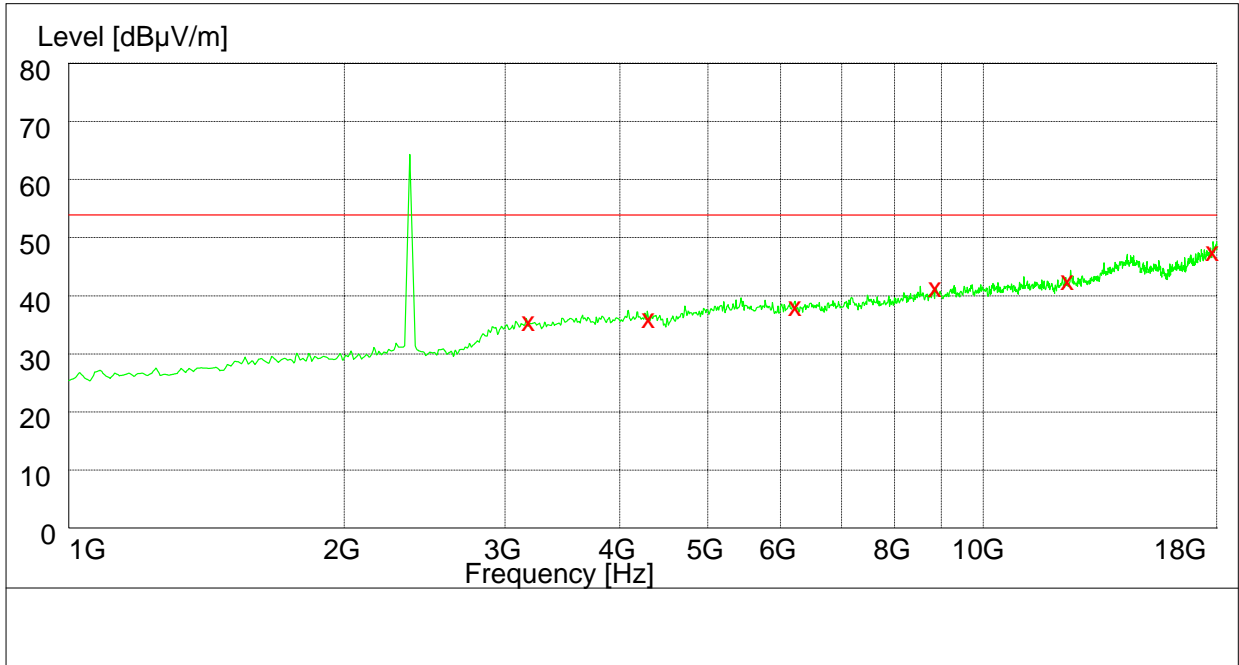
## Channel 0 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
31.040000	19.50	11.7	40.0	20.5	131.0	132.00	VERTICAL
57.840000	18.90	12.4	40.0	21.1	254.0	229.00	HORIZONTAL
172.800000	23.60	10.3	43.5	19.9	116.0	86.00	HORIZONTAL
326.400000	25.00	16.2	46.0	21.0	191.0	354.00	VERTICAL
403.200000	37.40	18.2	46.0	8.6	260.0	321.00	VERTICAL
441.600000	31.10	18.9	46.0	14.9	278.0	332.00	VERTICAL



## 1GHz to 18GHz

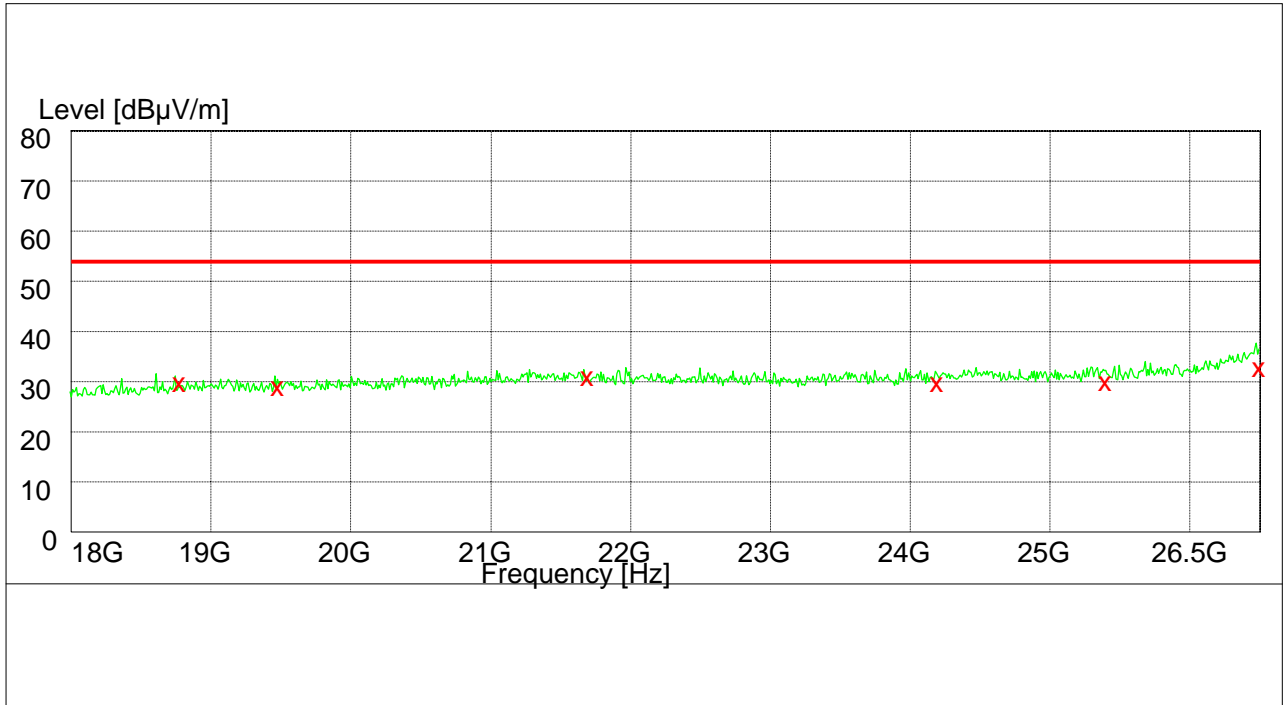


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3208.000000	35.80	-8.1	54.0	18.2	195.0	84.00	VERTICAL
4316.000000	36.70	-5.3	54.0	17.3	111.0	221.00	VERTICAL
6238.000000	38.90	-1.4	54.0	15.1	137.0	142.00	HORIZONTAL
8883.000000	41.20	3.8	54.0	12.8	127.0	347.00	VERTICAL
12386.500000	43.10	7.9	54.0	10.9	114.0	169.00	VERTICAL
17843.500000	48.60	16.3	54.0	5.4	117.0	328.00	HORIZONTAL



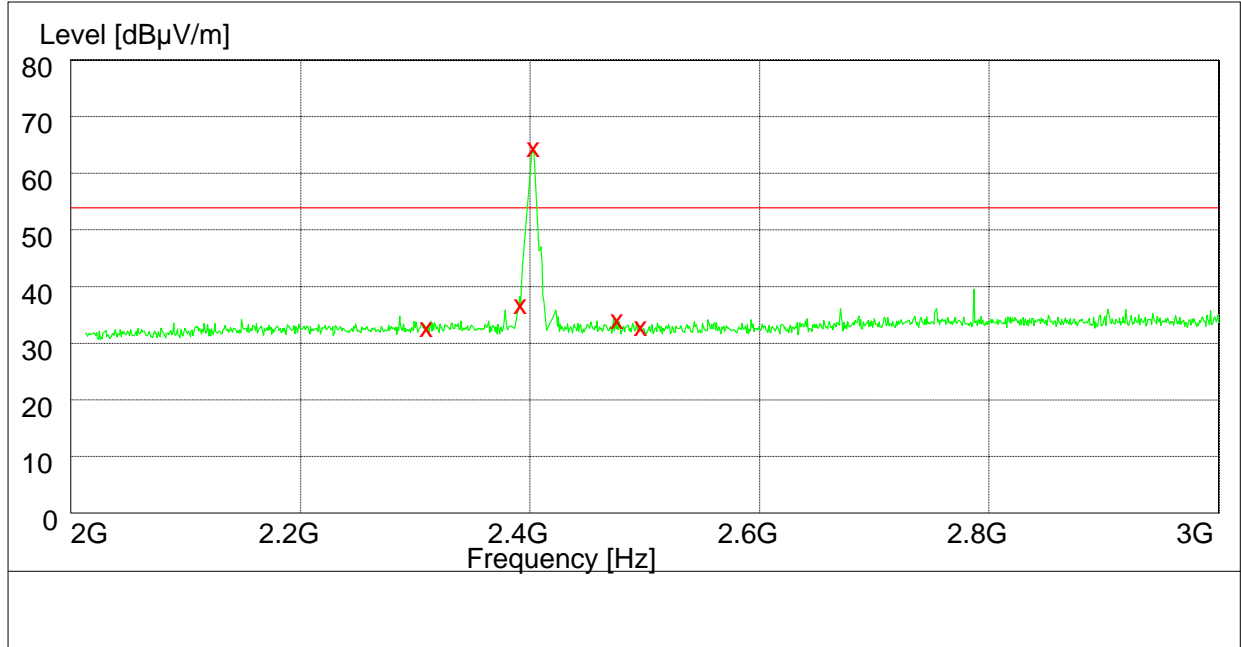
## 18GHz to 26GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
18784.000000	29.70	18.5	54.0	24.3	185.0	324.00	VERTICAL
19473.000000	29.00	18.9	54.0	25.0	178.0	65.00	VERTICAL
21707.000000	30.90	20.5	54.0	23.1	151.0	331.00	HORIZONTAL
24192.000000	30.00	21.5	54.0	24.0	113.0	304.00	VERTICAL
25392.000000	29.90	23.1	54.0	24.1	154.0	138.00	HORIZONTAL
26498.000000	32.90	27.9	54.0	21.1	111.0	260.00	HORIZONTAL



## 2GHz to 3GHz

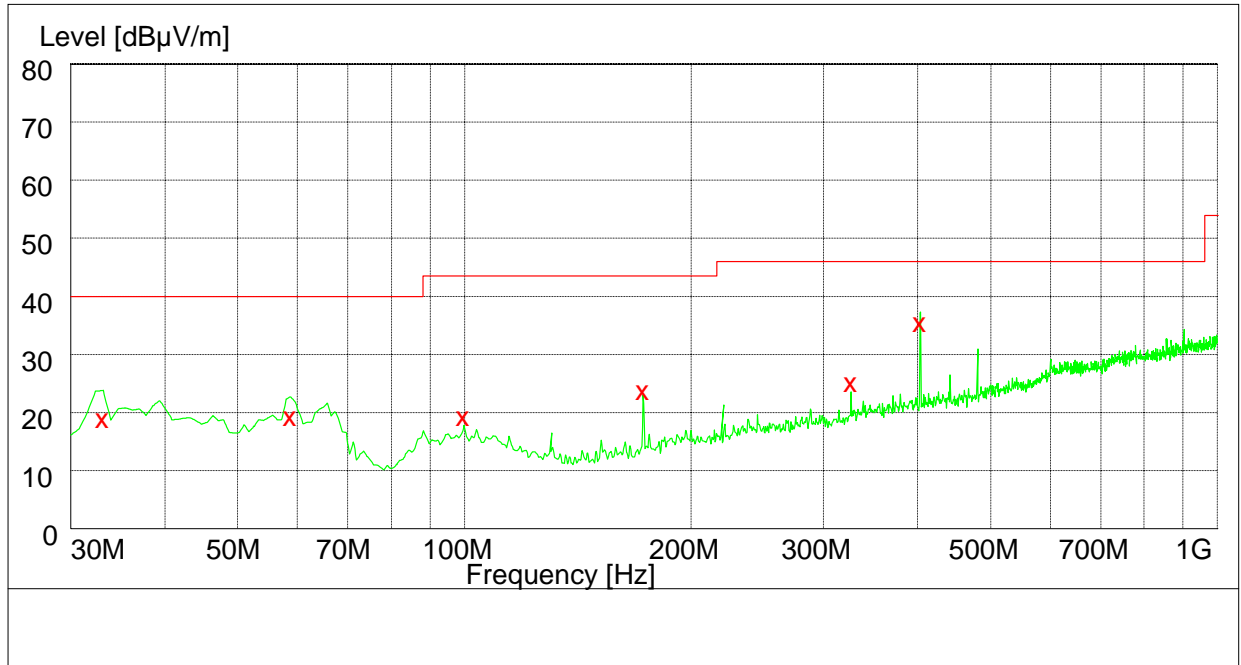


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	33.30	-11.7	54.0	20.7	120.0	95.00	VERTICAL
2390.000000	37.40	-11.5	54.0	16.6	175.0	91.00	VERTICAL
2402.000000	64.90	-11.5	54.0	-10.9	132.0	93.00	VERTICAL
2483.500000	34.00	-11.3	54.0	20.0	177.0	176.00	HORIZONTAL
2500.000000	33.50	-11.2	54.0	20.5	147.0	274.00	HORIZONTAL



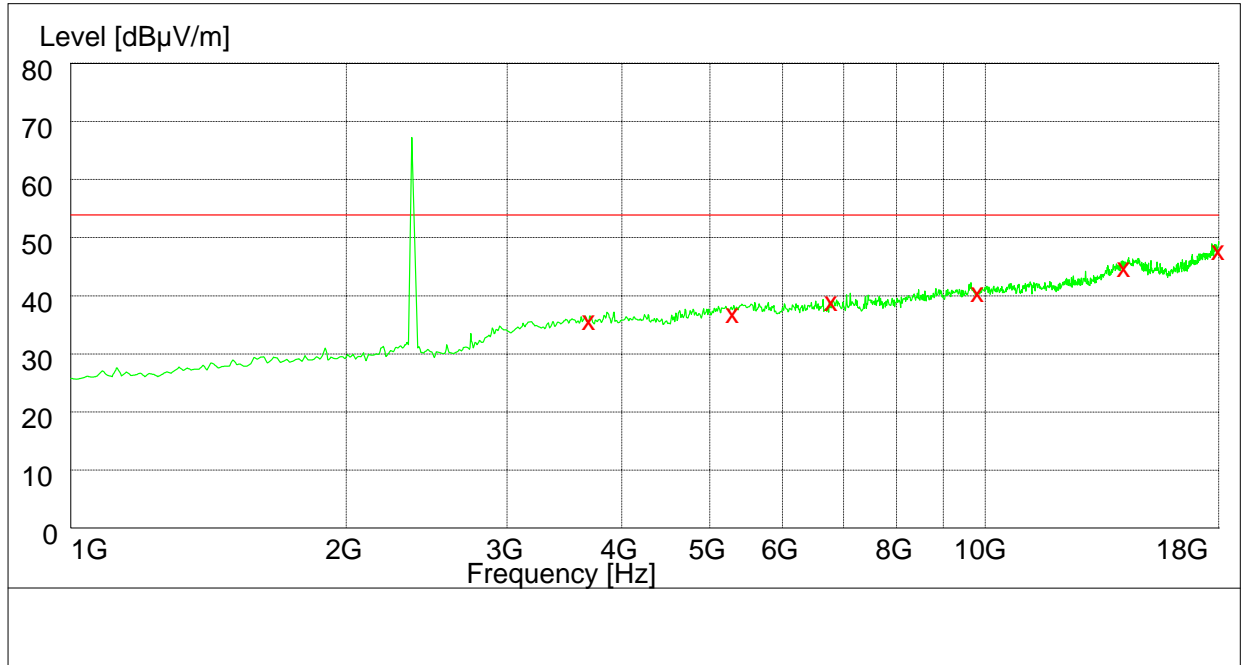
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.060000	19.50	11.7	40.0	20.5	107.0	56.00	VERTICAL
57.260000	19.50	12.4	40.0	20.5	272.0	210.00	VERTICAL
99.720000	19.70	13.1	43.5	23.8	213.0	278.00	VERTICAL
172.800000	24.40	10.3	43.5	19.1	192.0	229.00	HORIZONTAL
326.400000	25.60	16.2	46.0	20.4	285.0	301.00	VERTICAL
403.200000	36.80	18.2	46.0	9.2	143.0	173.00	HORIZONTAL



## 1GHz to 18GHz

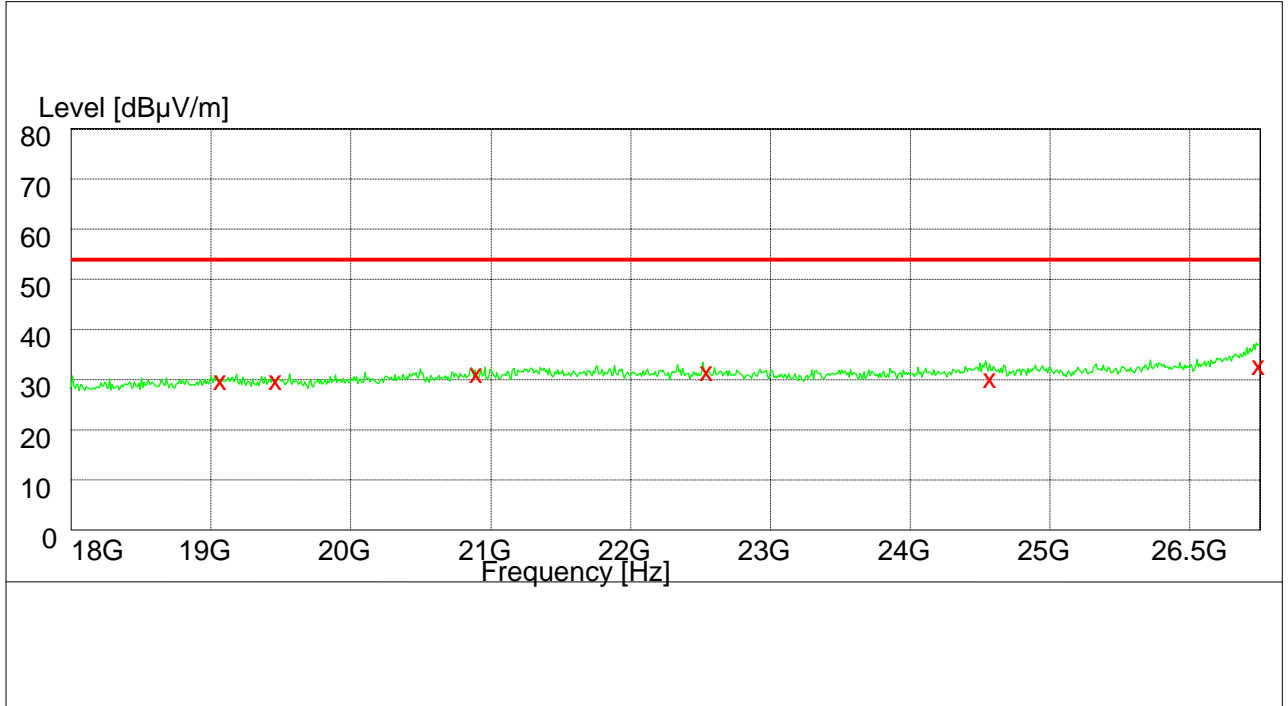


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3654.500000	36.30	-6.8	54.0	17.7	101.0	123.00	VERTICAL
5300.000000	37.10	-2.6	54.0	16.9	197.0	96.00	HORIZONTAL
6798.500000	39.20	-0.4	54.0	14.8	169.0	310.00	VERTICAL
9854.000000	40.40	5.2	54.0	13.6	154.0	327.00	VERTICAL
14217.500000	44.80	11.6	54.0	9.2	178.0	256.00	HORIZONTAL
17902.000000	48.20	17.2	54.0	5.8	120.0	127.00	HORIZONTAL



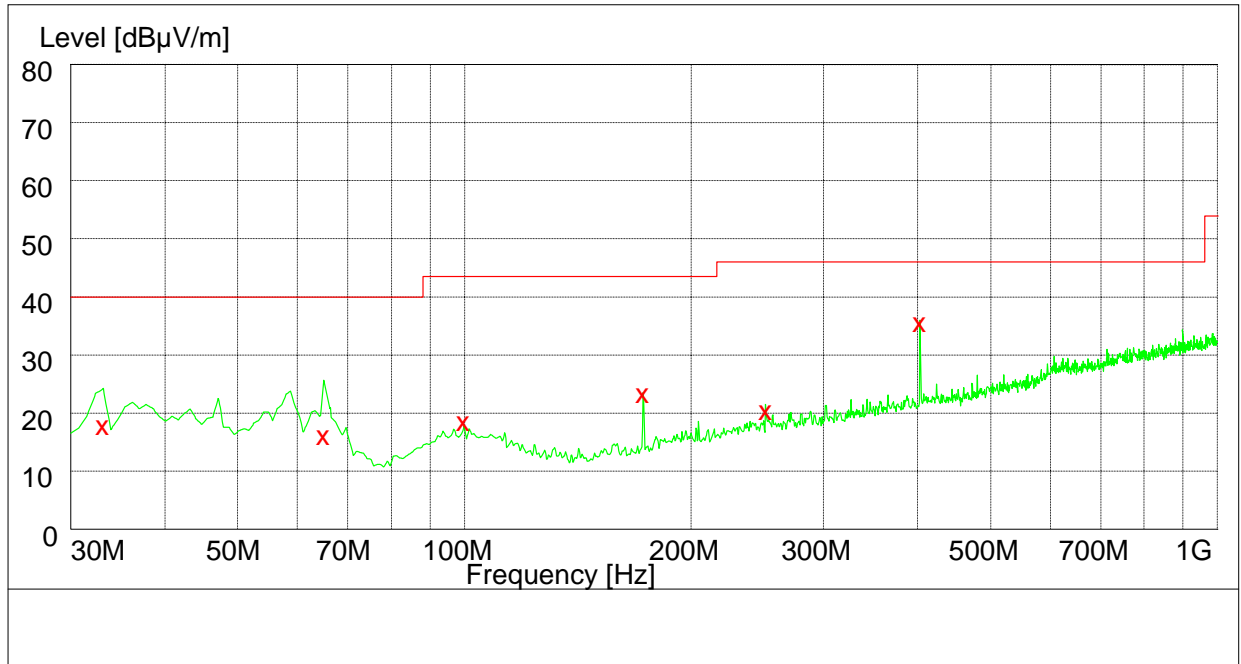
## 18GHz to 26GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
19019.500000	30.40	18.6	54.0	23.6	196.0	86.00	VERTICAL
19480.500000	29.80	18.9	54.0	24.2	167.0	46.00	VERTICAL
20869.500000	31.70	20.2	54.0	22.3	181.0	298.00	VERTICAL
22548.500000	32.30	20.3	54.0	21.7	195.0	65.00	VERTICAL
24575.000000	30.90	22.0	54.0	23.1	159.0	213.00	HORIZONTAL
26496.500000	33.50	27.9	54.0	20.5	156.0	338.00	VERTICAL



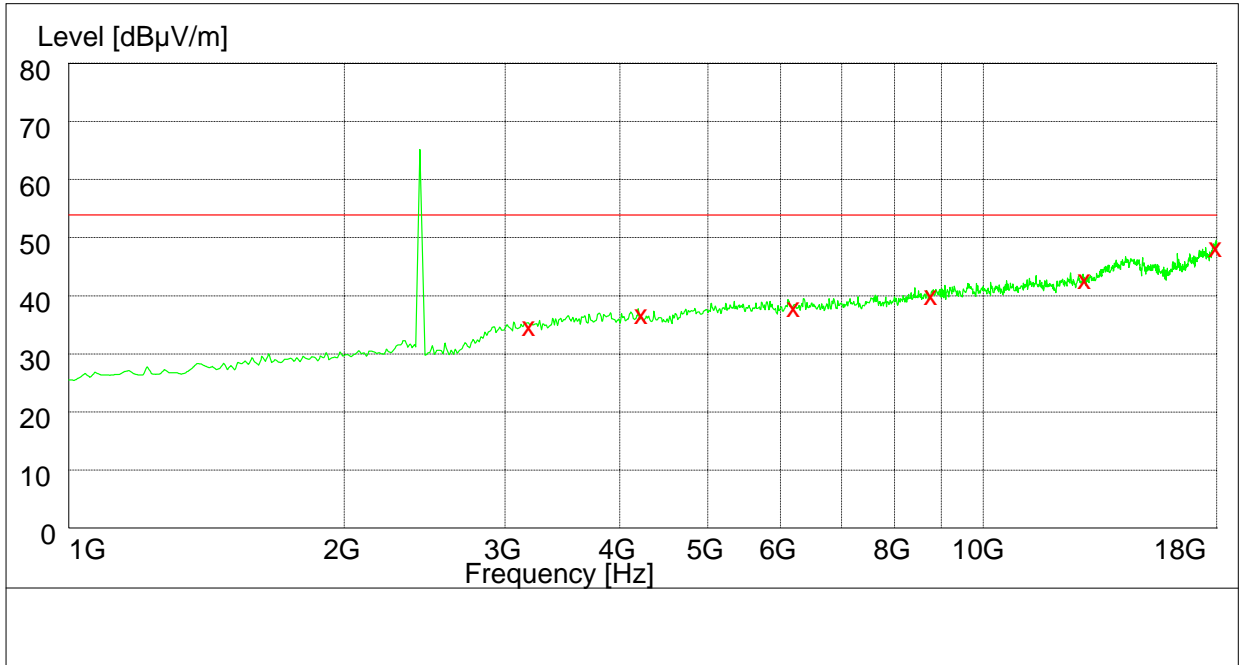
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
33.500000	18.90	11.7	40.0	21.1	234.0	274.00	HORIZONTAL
64.980000	16.50	10.4	40.0	23.5	261.0	214.00	HORIZONTAL
99.960000	19.70	13.1	43.5	23.6	171.0	6.00	VERTICAL
172.800000	24.20	10.3	43.5	19.3	153.0	107.00	HORIZONTAL
251.520000	20.00	14.2	46.0	26.0	230.0	179.00	VERTICAL
403.200000	36.60	18.2	46.0	9.4	298.0	132.00	VERTICAL



## 1GHz to 18GHz

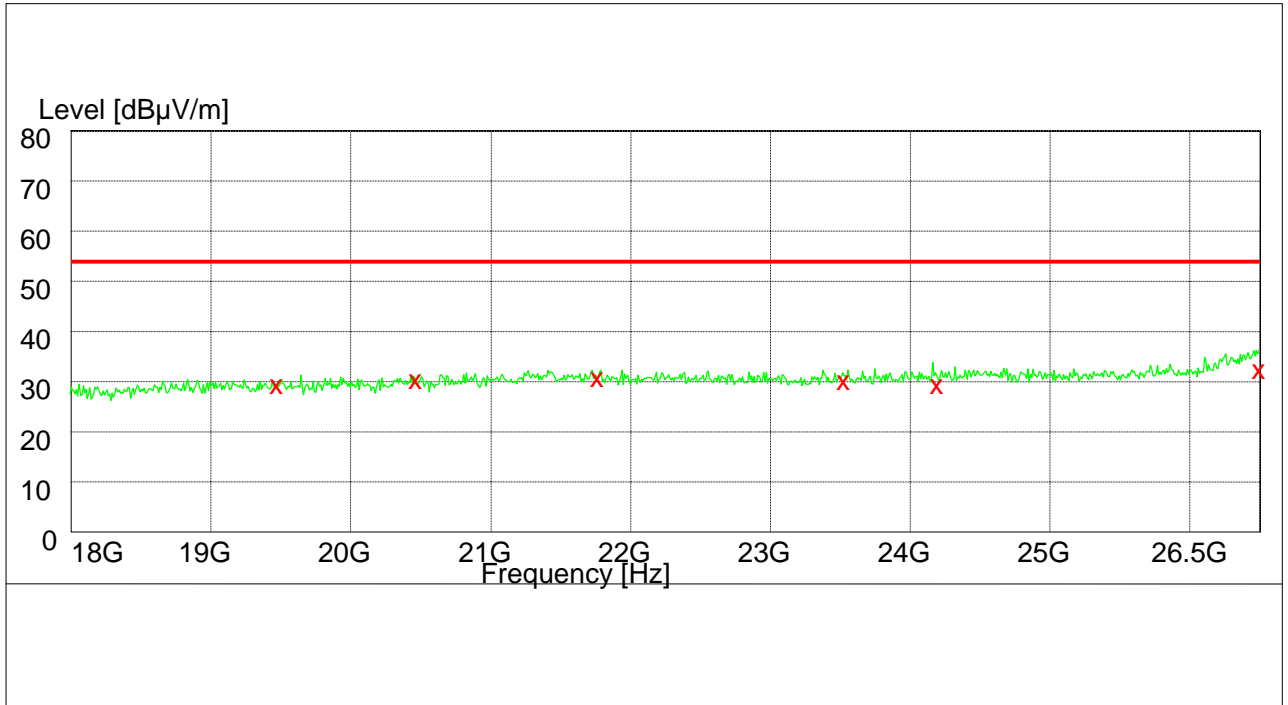


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
3162.000000	34.60	-8.4	54.0	19.4	199.0	177.00	VERTICAL
4302.500000	36.90	-5.3	54.0	17.1	160.0	62.00	HORIZONTAL
6218.000000	38.40	-1.4	54.0	15.6	139.0	50.00	VERTICAL
8782.000000	40.00	3.5	54.0	14.0	168.0	17.00	VERTICAL
12783.000000	43.10	8.5	54.0	10.9	128.0	281.00	HORIZONTAL
17989.500000	48.70	17.2	54.0	5.3	113.0	53.00	HORIZONTAL



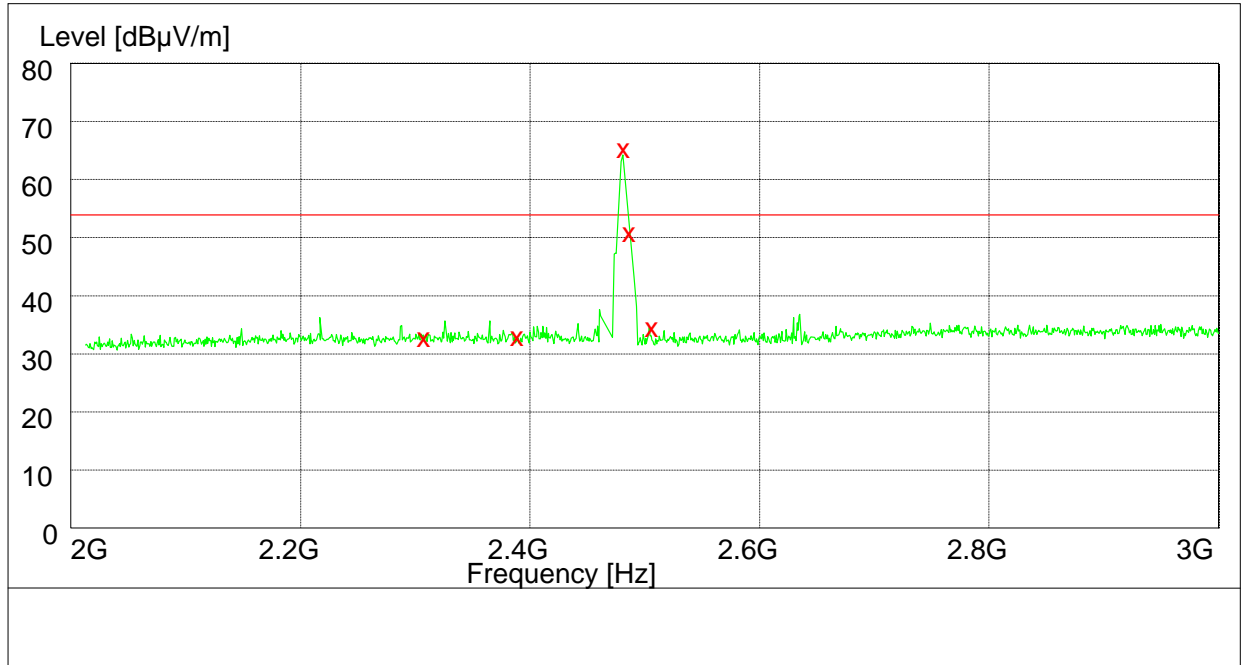
## 18GHz to 26GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
19472.000000	29.50	18.9	54.0	24.5	184.0	186.00	HORIZONTAL
20463.000000	30.00	19.7	54.0	24.0	164.0	40.00	HORIZONTAL
21778.000000	30.20	20.5	54.0	23.8	100.0	181.00	VERTICAL
23537.000000	29.80	20.5	54.0	24.2	194.0	320.00	VERTICAL
24194.500000	29.50	21.5	54.0	24.5	114.0	147.00	HORIZONTAL
26498.000000	33.30	27.9	54.0	20.7	158.0	187.00	HORIZONTAL



## 2GHz to 3GHz



Note: The 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	32.50	-11.7	54.0	21.7	169.0	232.00	VERTICAL
2390.000000	32.70	-11.5	54.0	21.3	168.0	342.00	HORIZONTAL
2480.000000	65.40	-11.2	54.0	-11.4	163.0	257.00	VERTICAL
2483.500000	50.50	-11.3	54.0	3.5	145.0	34.00	VERTICAL
2500.000000	34.40	-11.2	54.0	19.6	189.0	309.00	VERTICAL



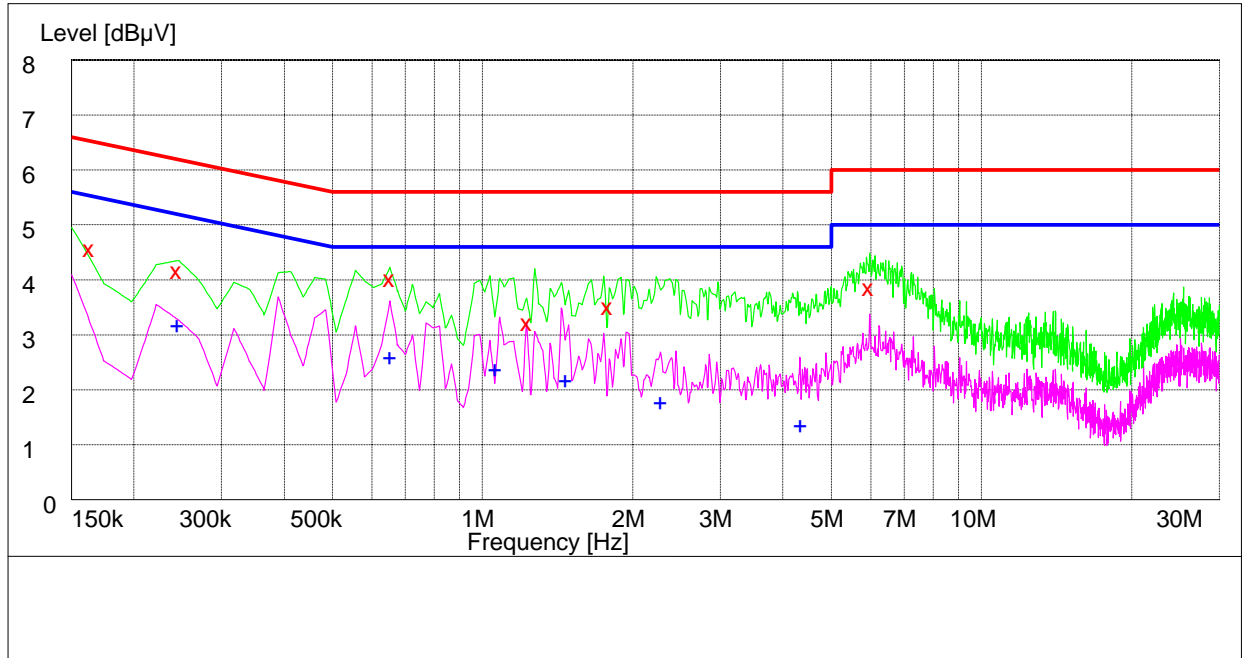
# Appendix I

## 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
0.163500	46.60	10.1	65	18.4	N	FLO
0.244500	42.50	10.0	62	19.5	N	FLO
0.654000	41.10	10.1	56	14.9	N	FLO
1.234500	33.10	10.1	56	22.9	N	FLO
1.792500	36.00	10.1	56	20.0	N	FLO
5.964000	39.40	10.2	60	20.6	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.244500	32.80	10.0	52	19.2	N	FLO
0.654000	26.90	10.1	46	19.1	N	FLO
1.063500	24.70	10.1	46	21.3	N	FLO
1.473000	22.70	10.1	46	23.3	N	FLO
2.278500	18.70	10.1	46	27.3	N	FLO
4.357500	14.50	10.2	46	31.5	N	FLO