



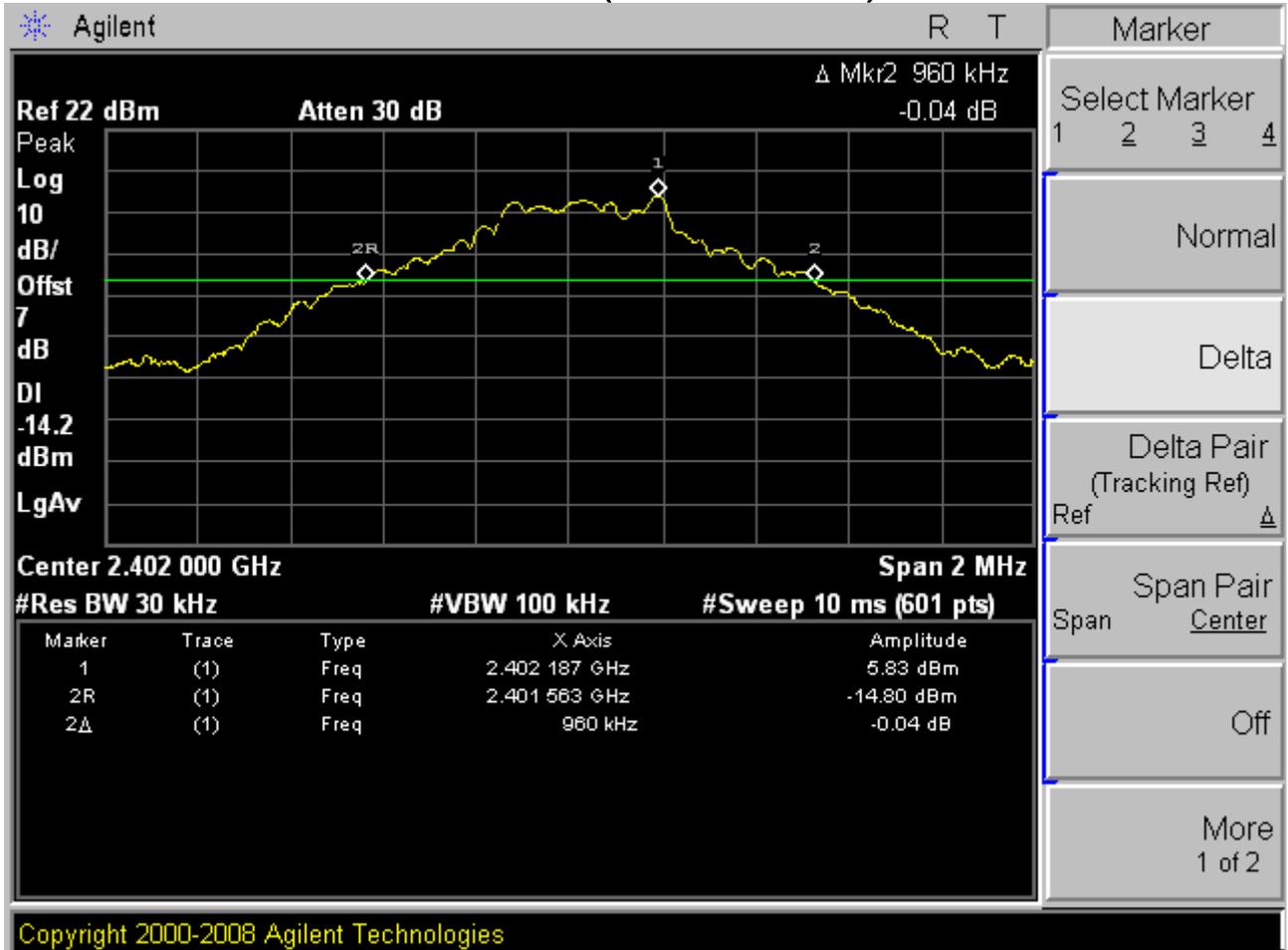
# Appendix A

## 20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)

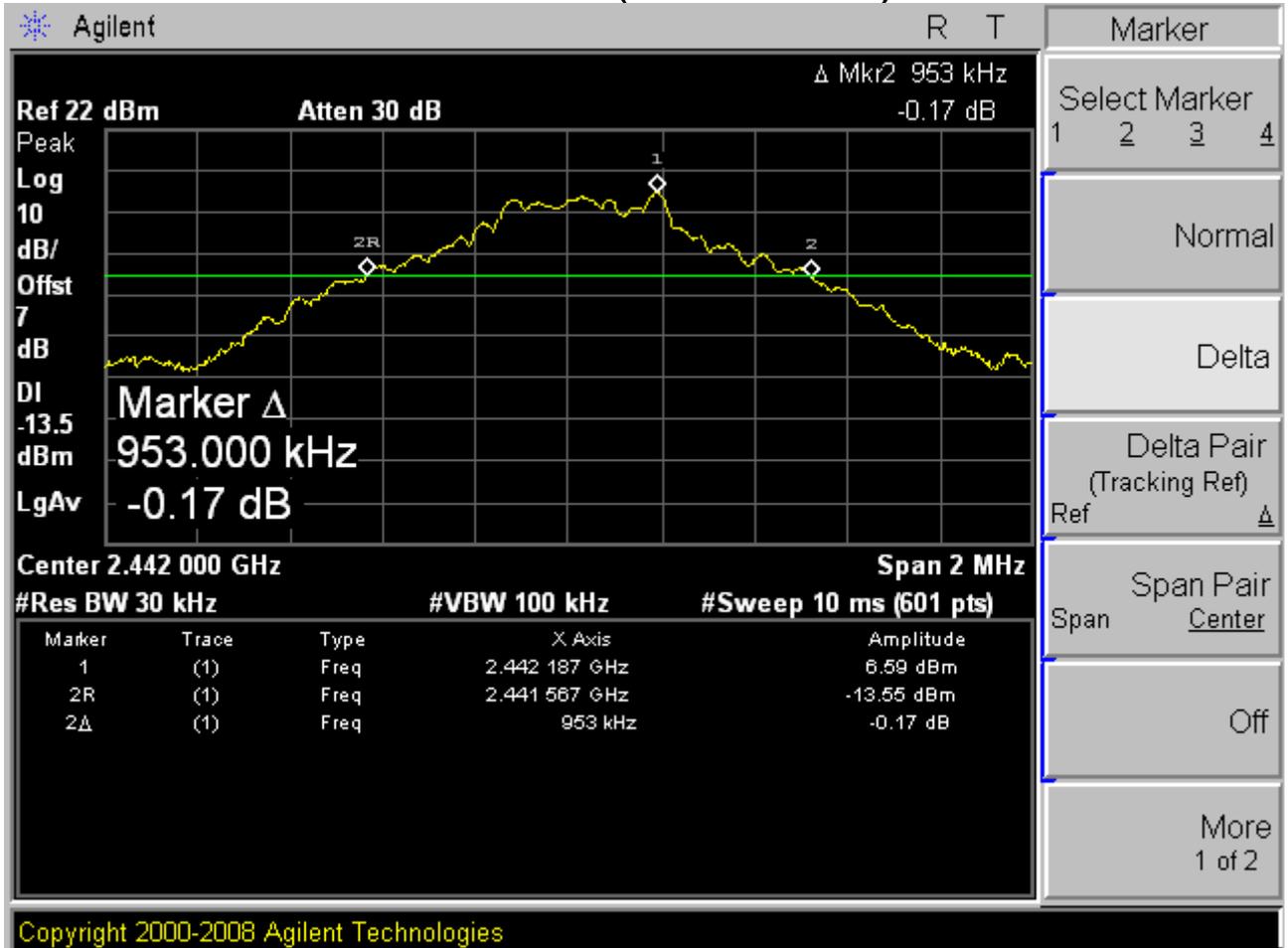


## Channel 0 (2402MHz)



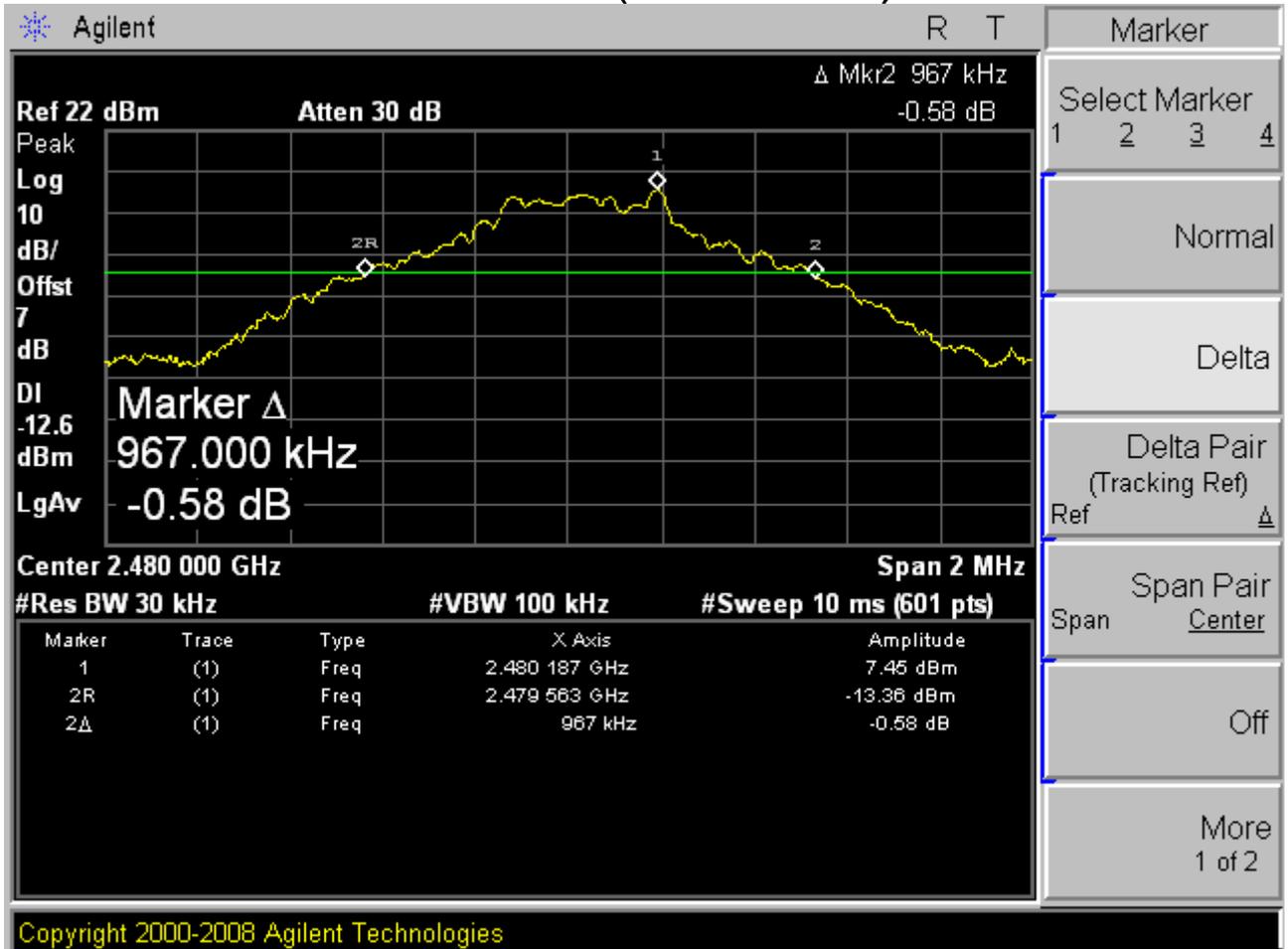


# Channel 40 (2442MHz)





## Channel 78 (2480MHz)





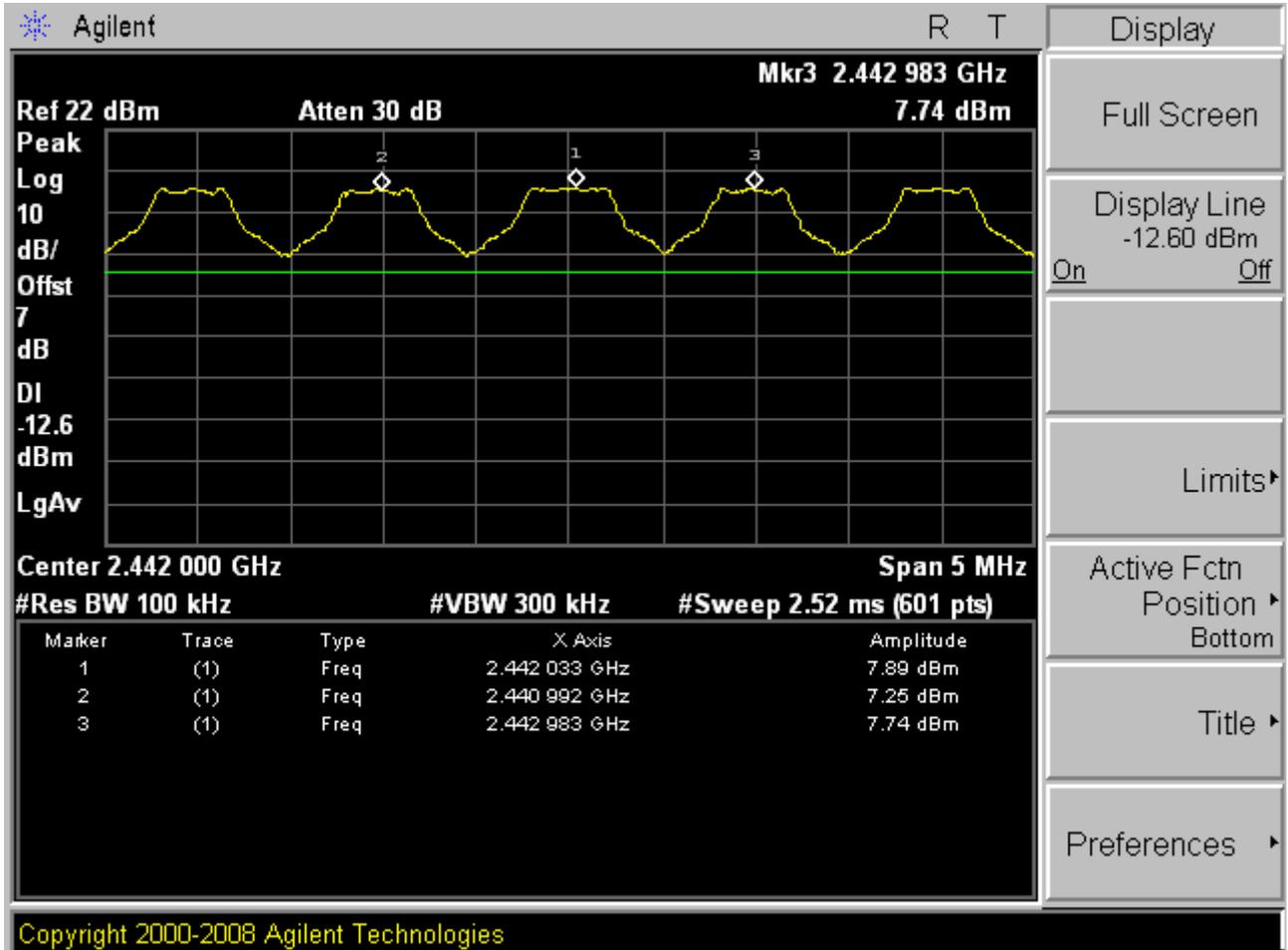
## **Appendix B**

# Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



## Centred at Channel 40





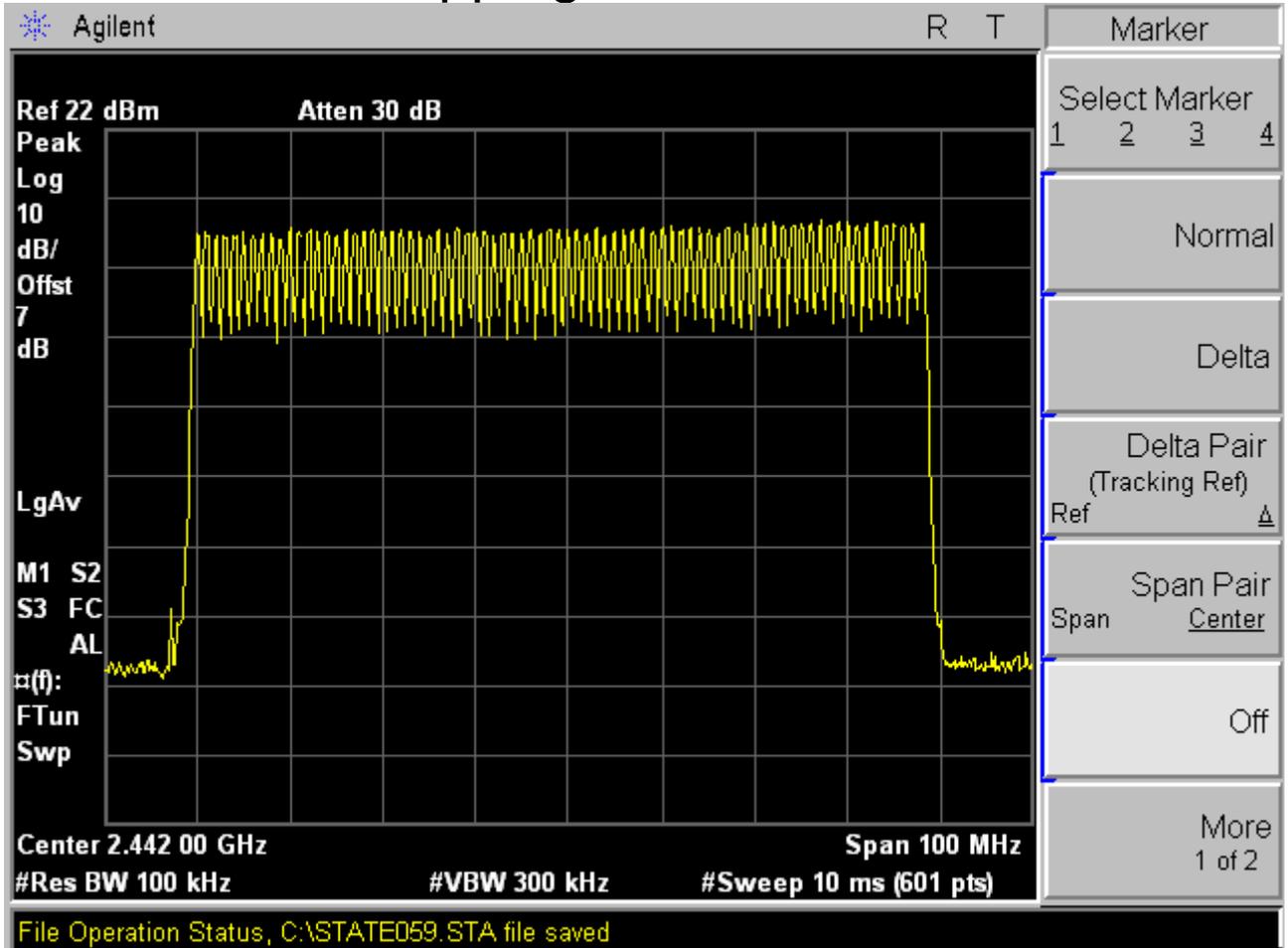
## Appendix C

# Number of hopping channel

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



# Total hopping channels = 79





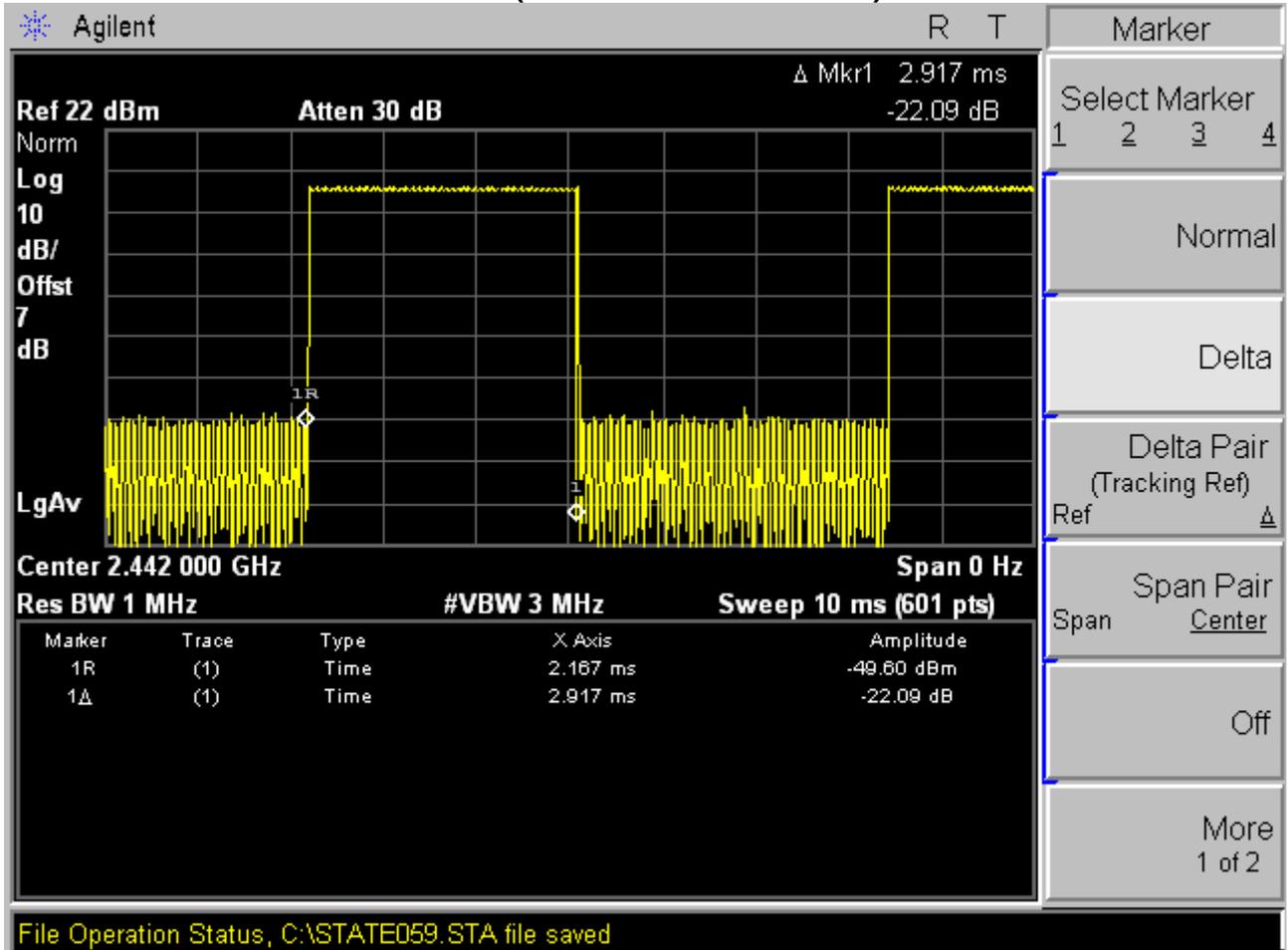
# Appendix D

## Time of occupancy

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

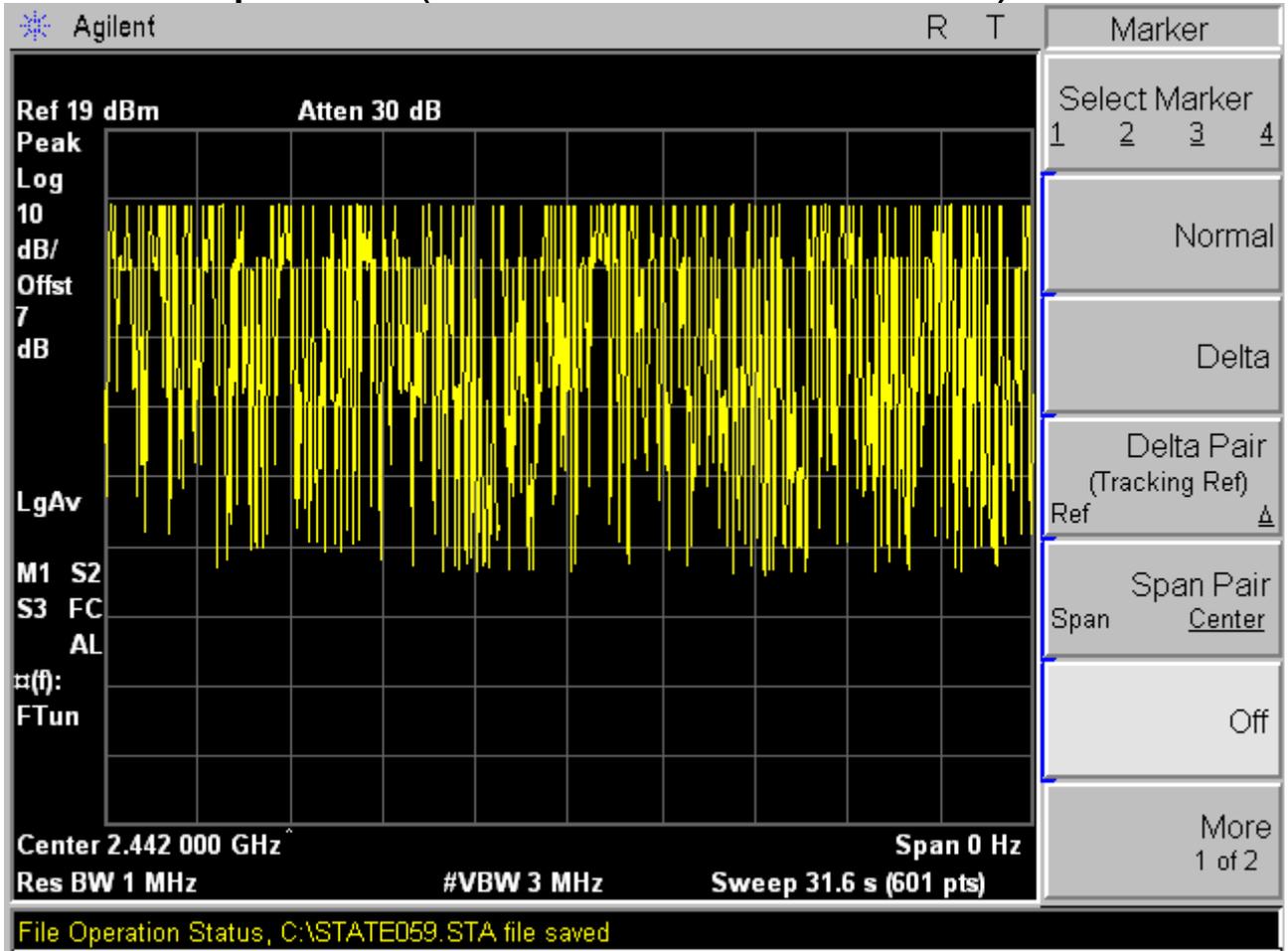


## A burst (One time slot)





## A period (Less than 106.7 burst)





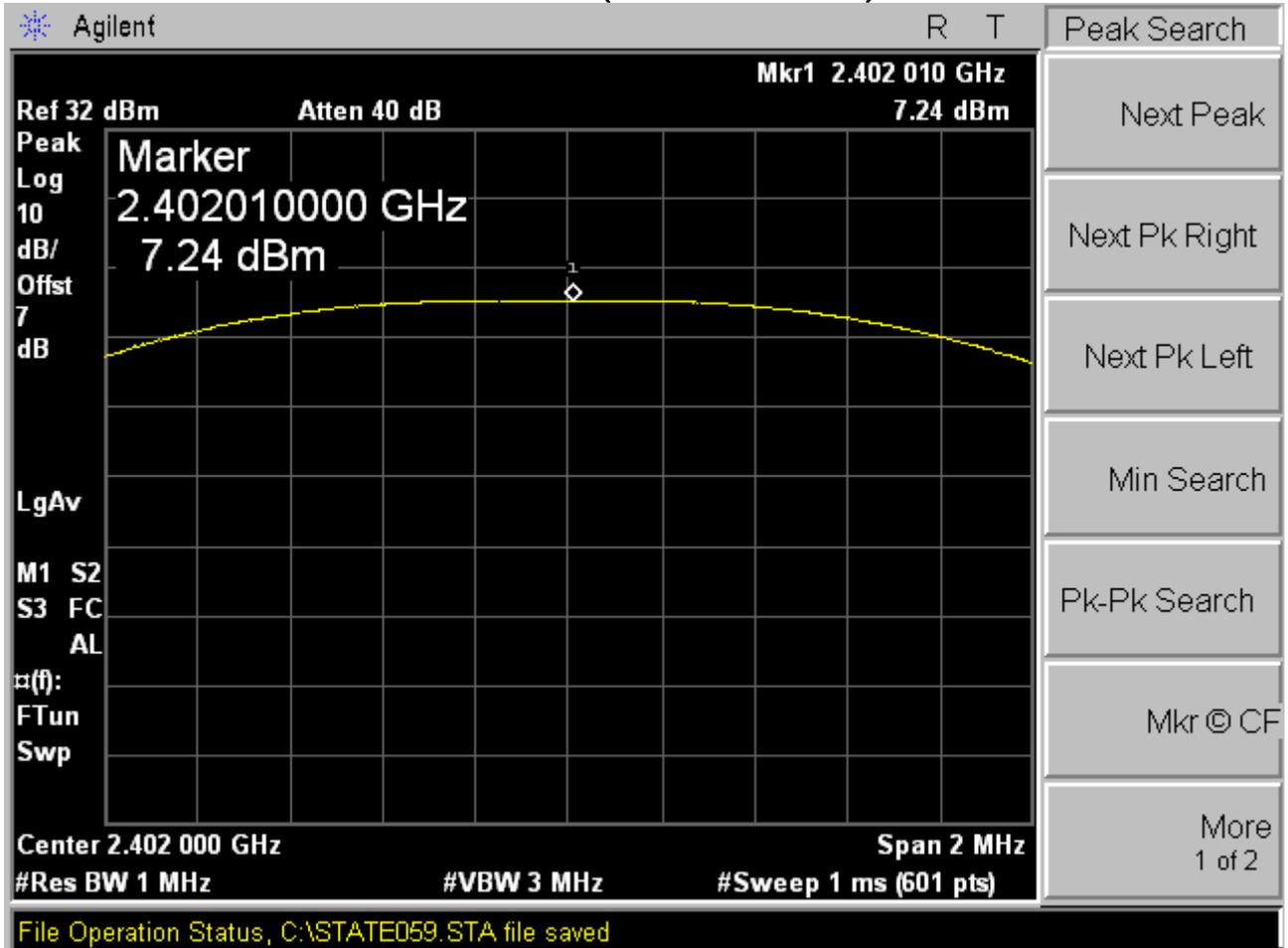
# Appendix E

## Peak output power

According to FCC Part 15.247 (b) (1)

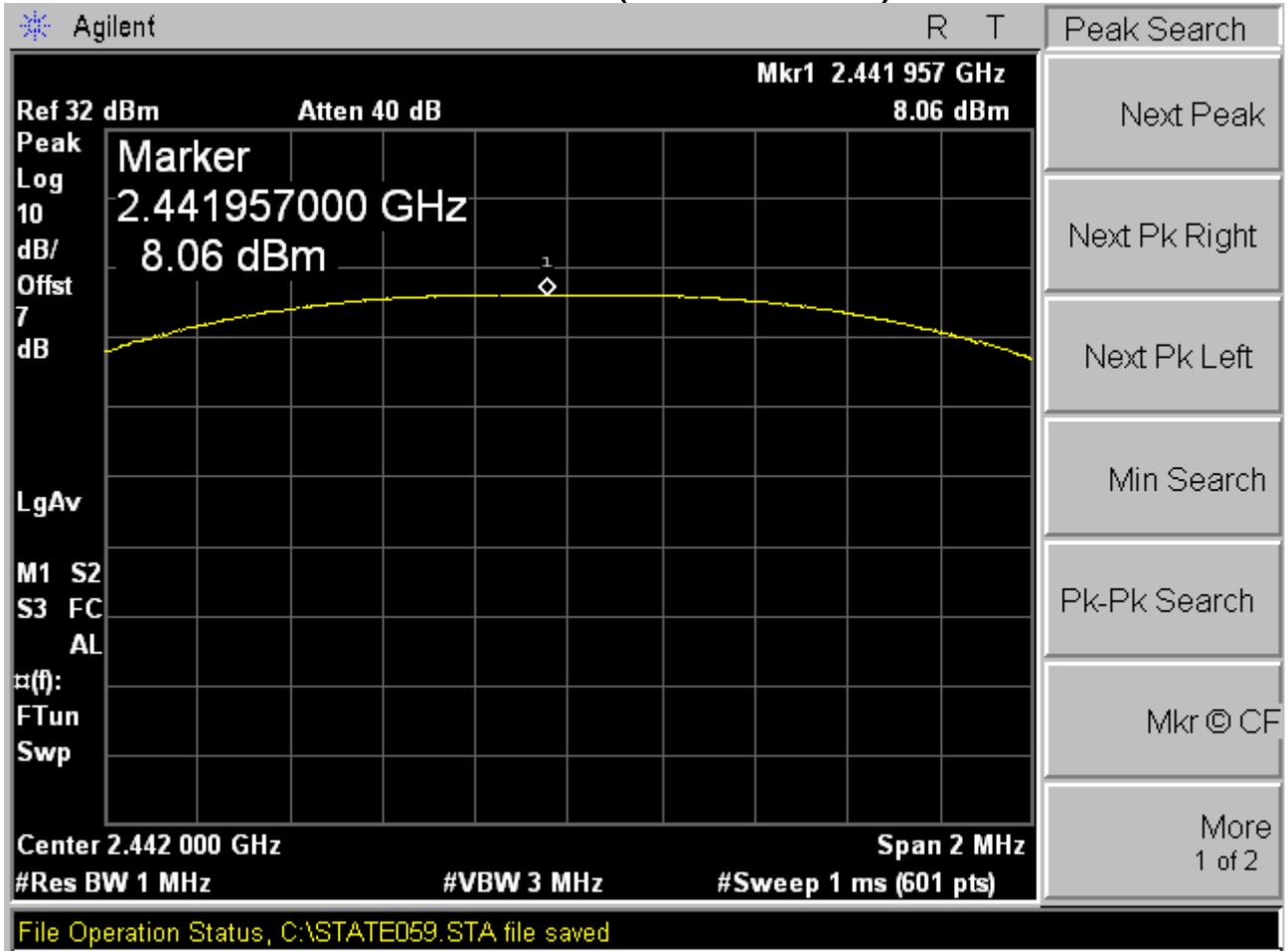


# Channel 0 (2402MHz)



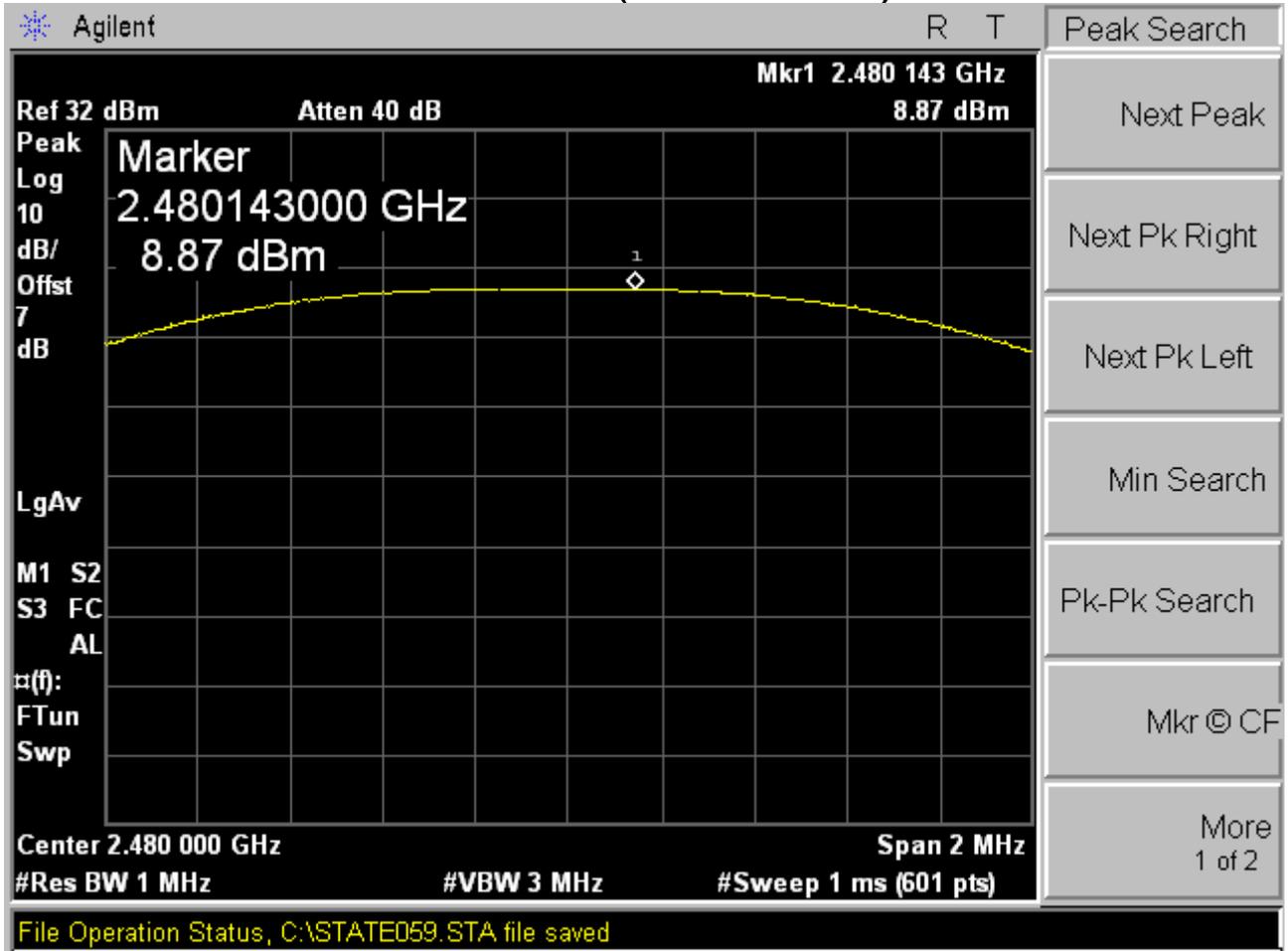


# Channel 40 (2442MHz)





# Channel 78 (2480MHz)





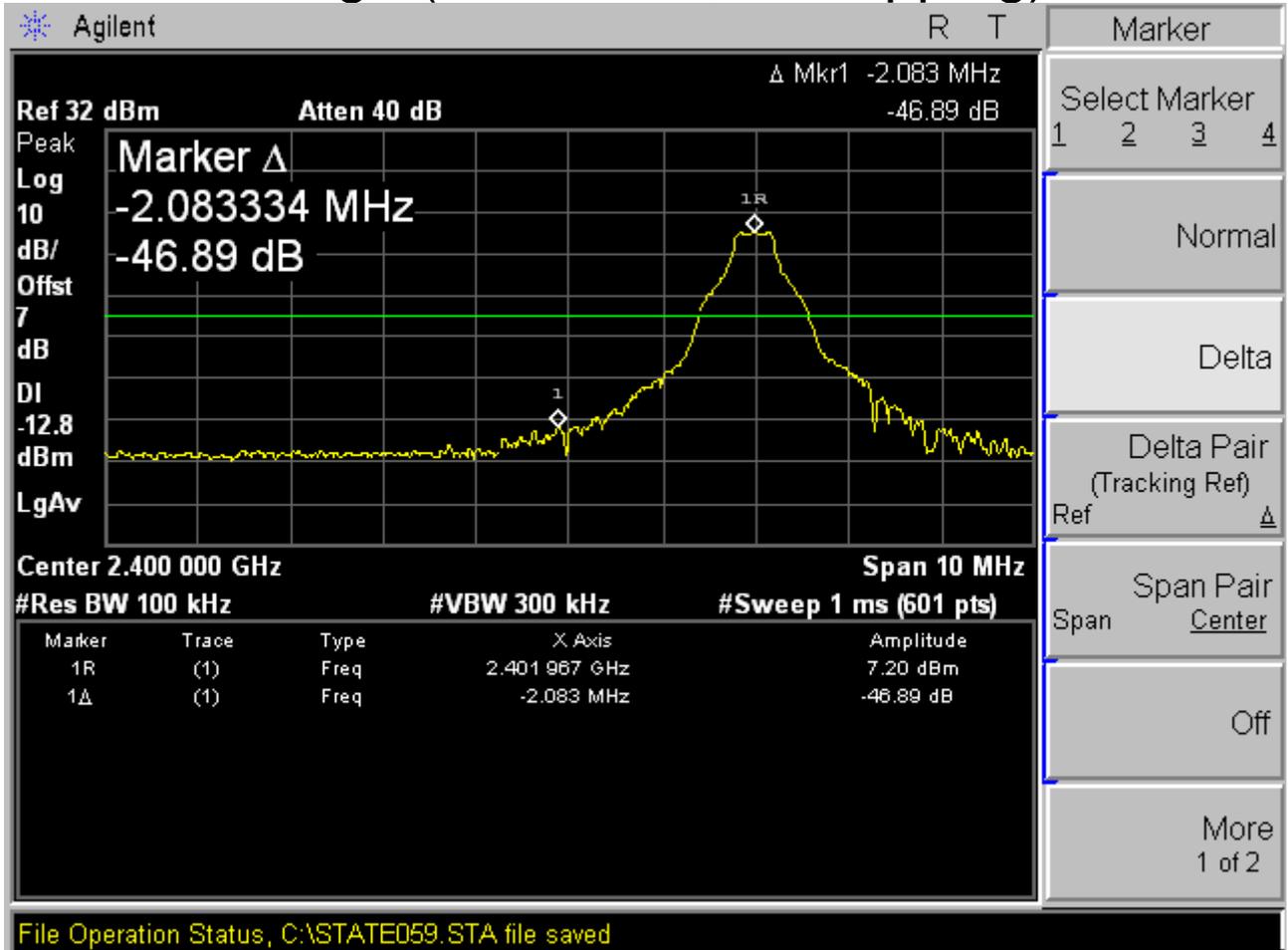
# Appendix F

## Band edge spurious emission

According to FCC Part 15.247 (d)

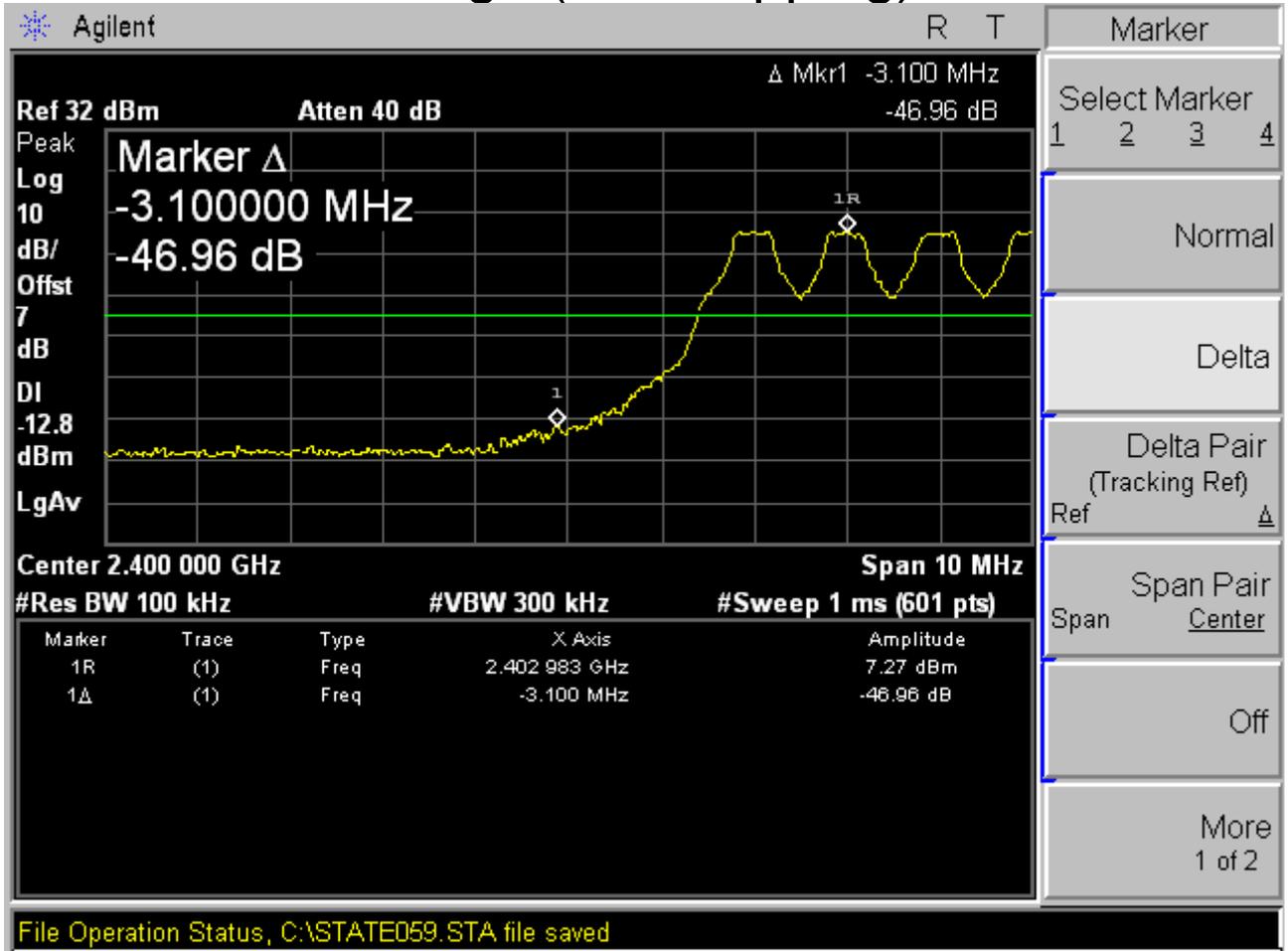


## Low edge (Channel 0, no hopping)



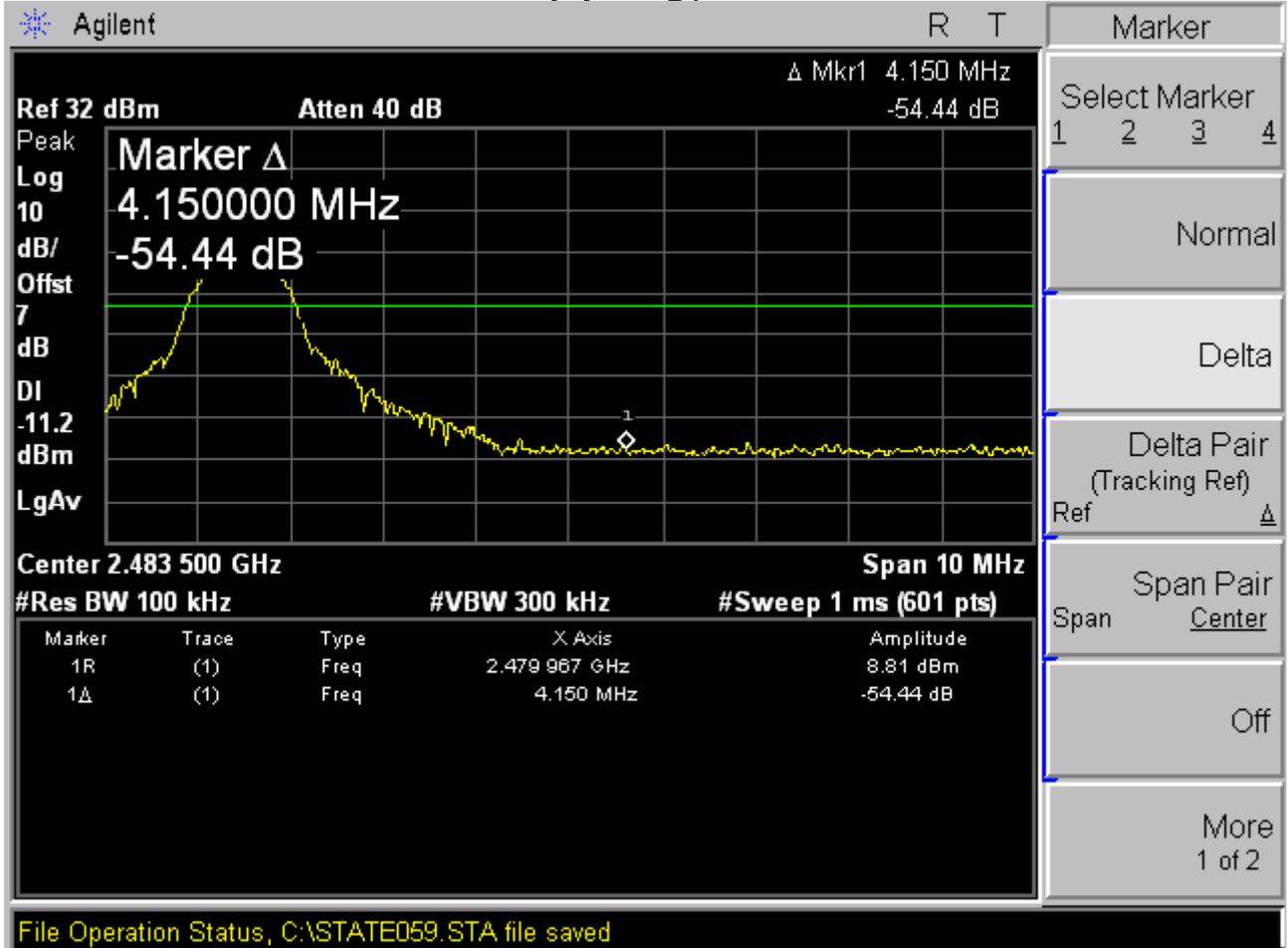


# Low edge (with hopping)



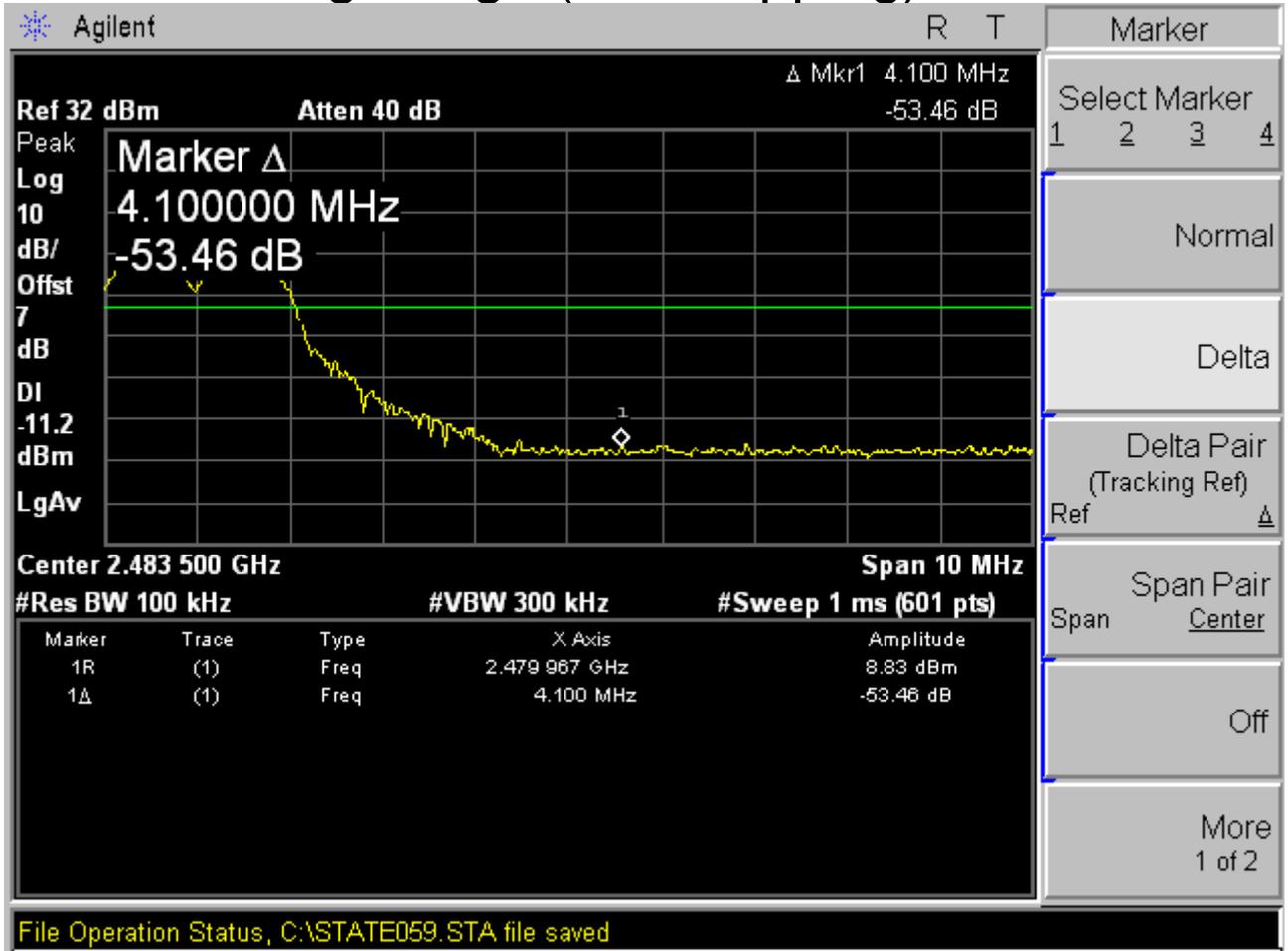


## High edge (Channel 78, no hopping)





# High edge (with hopping)





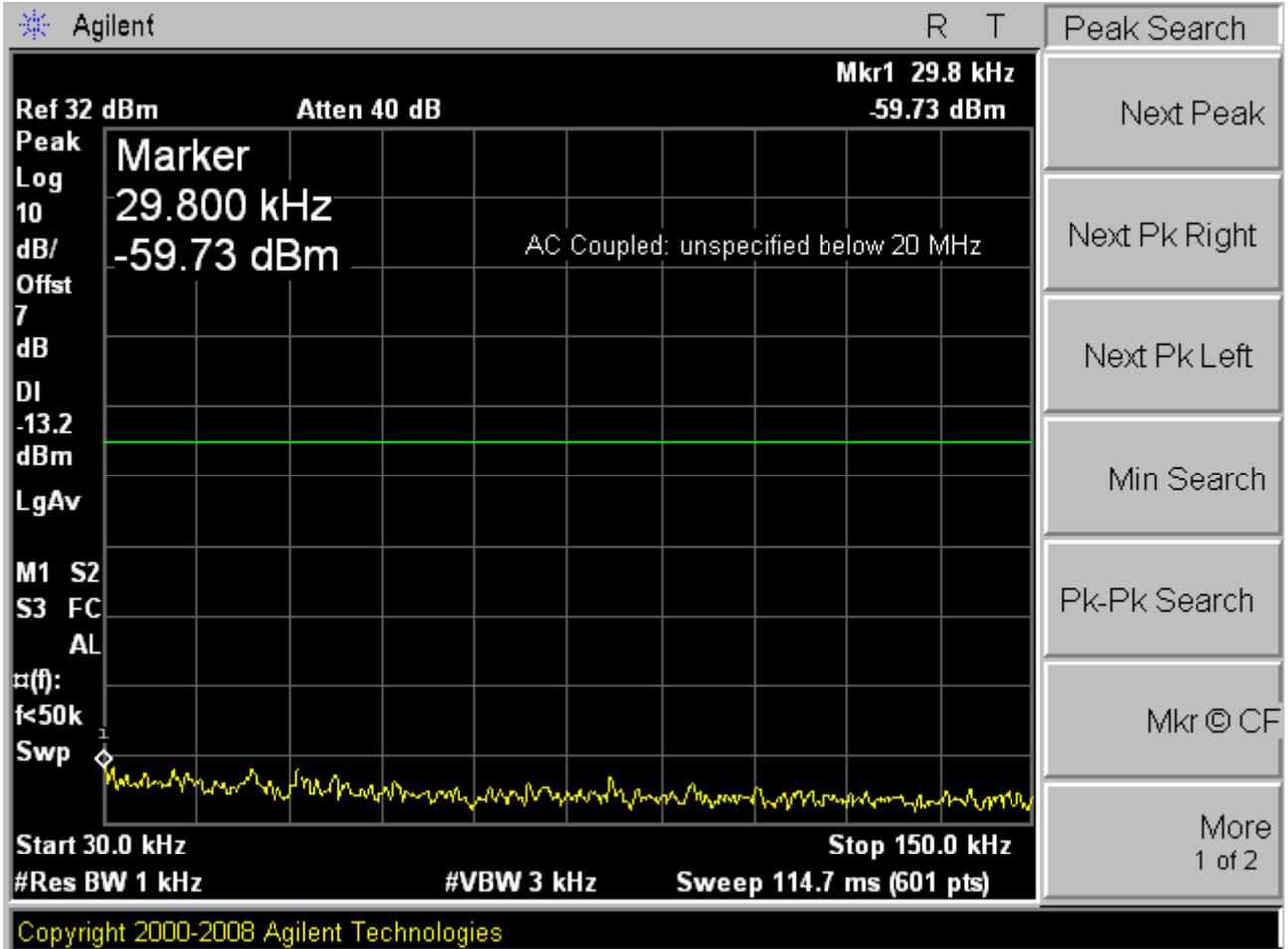
# Appendix G

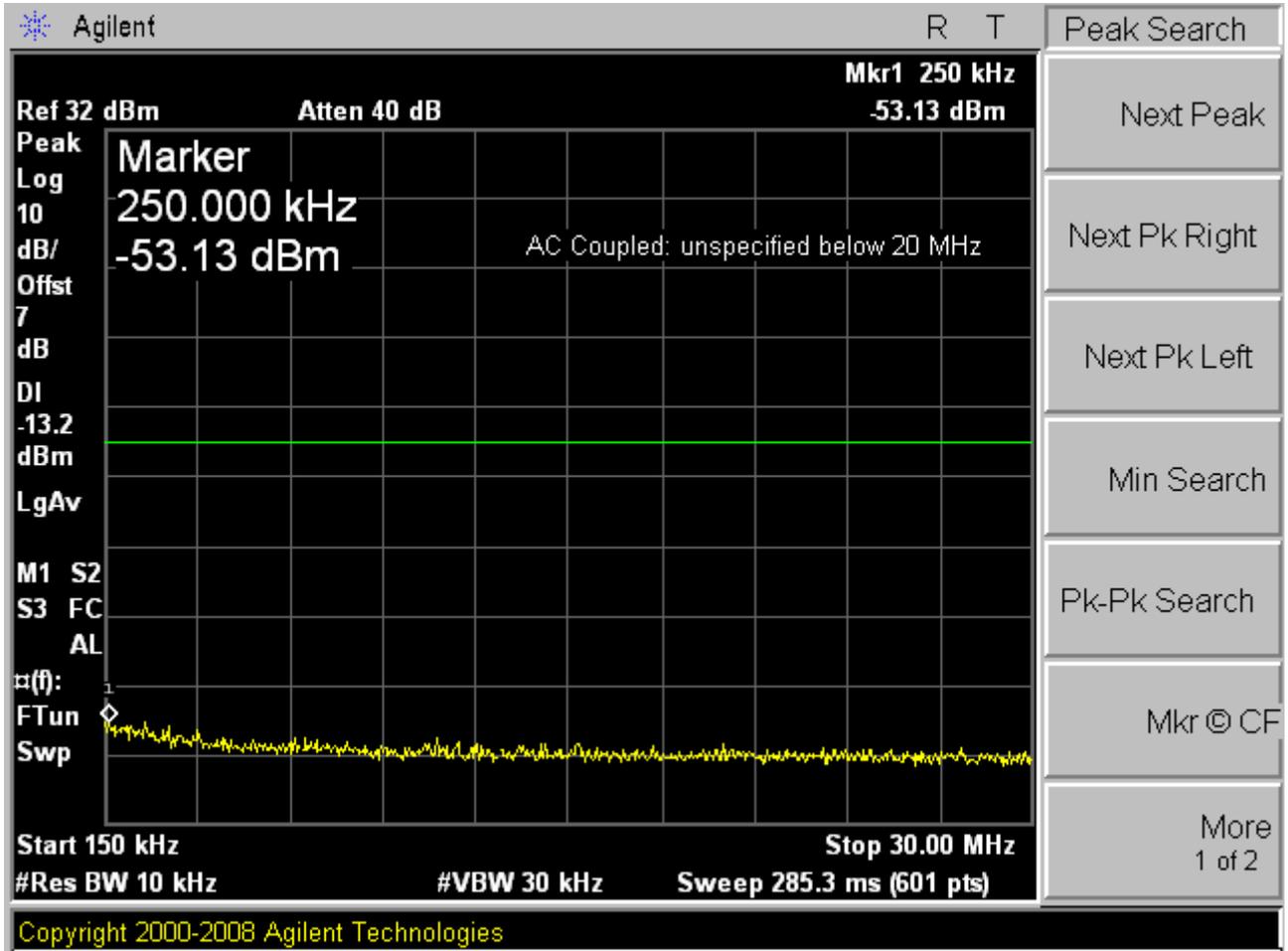
## Conducted RF spurious

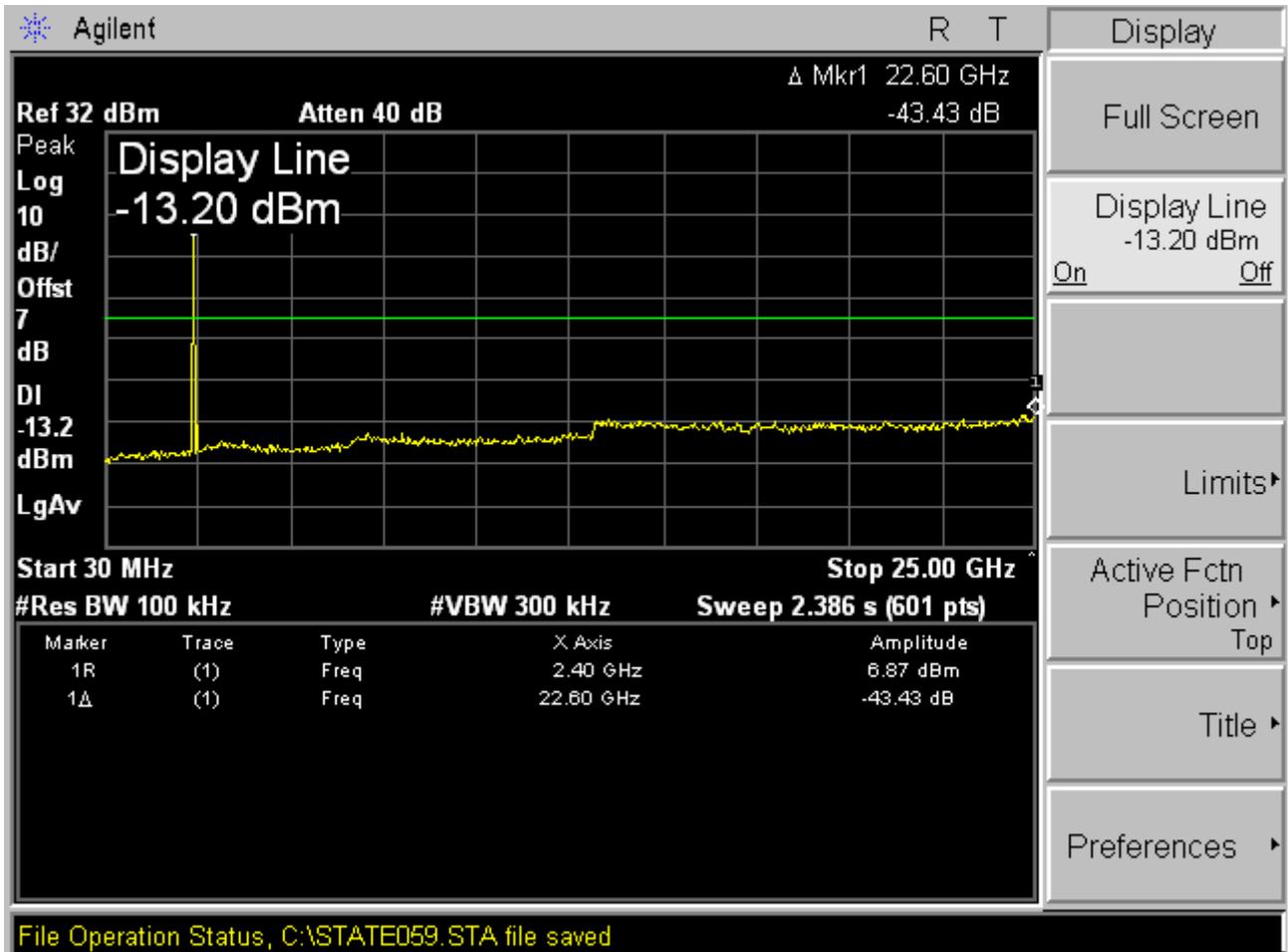
According to FCC Part 15.247 (d)



# Channel 0

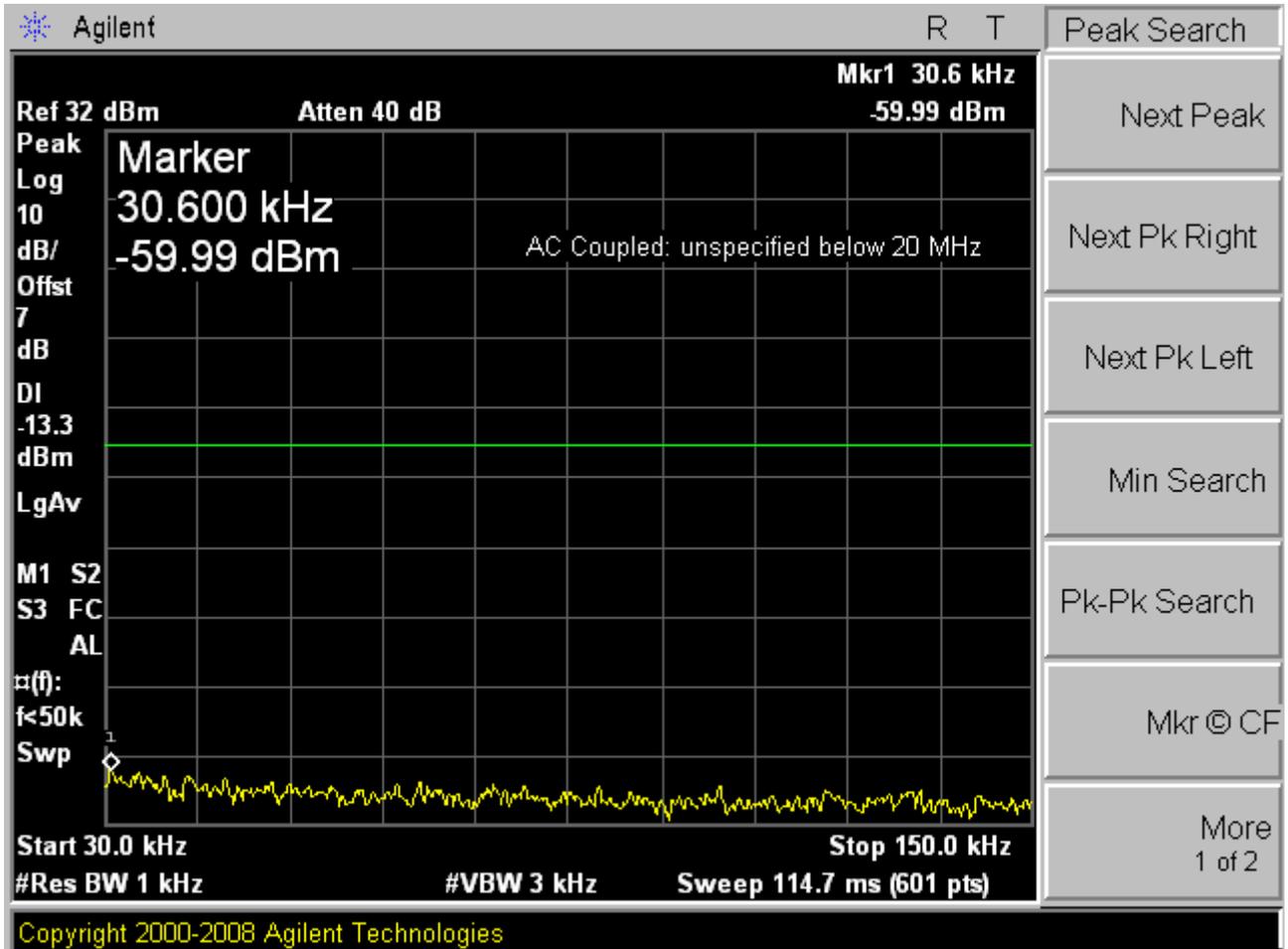


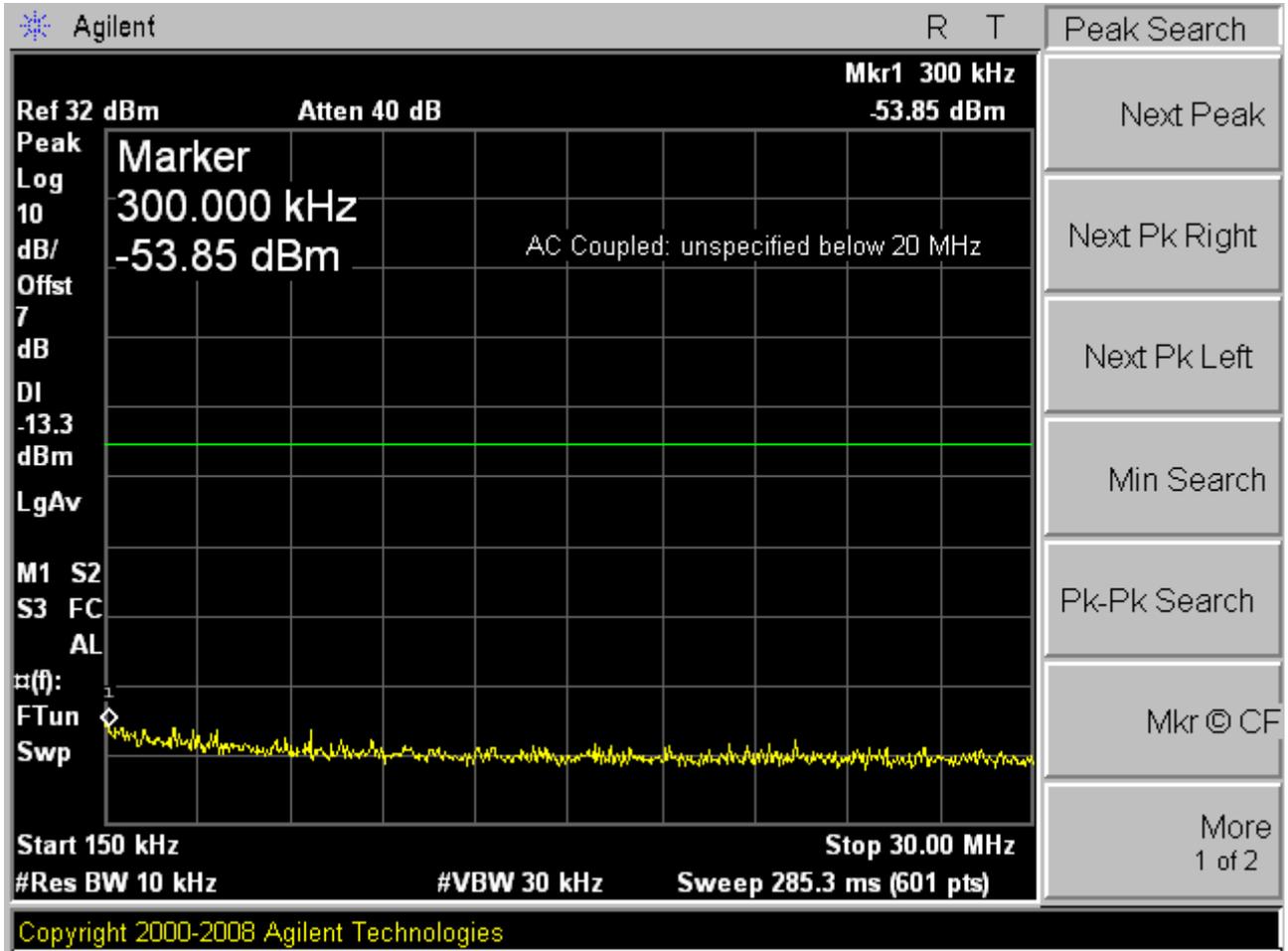


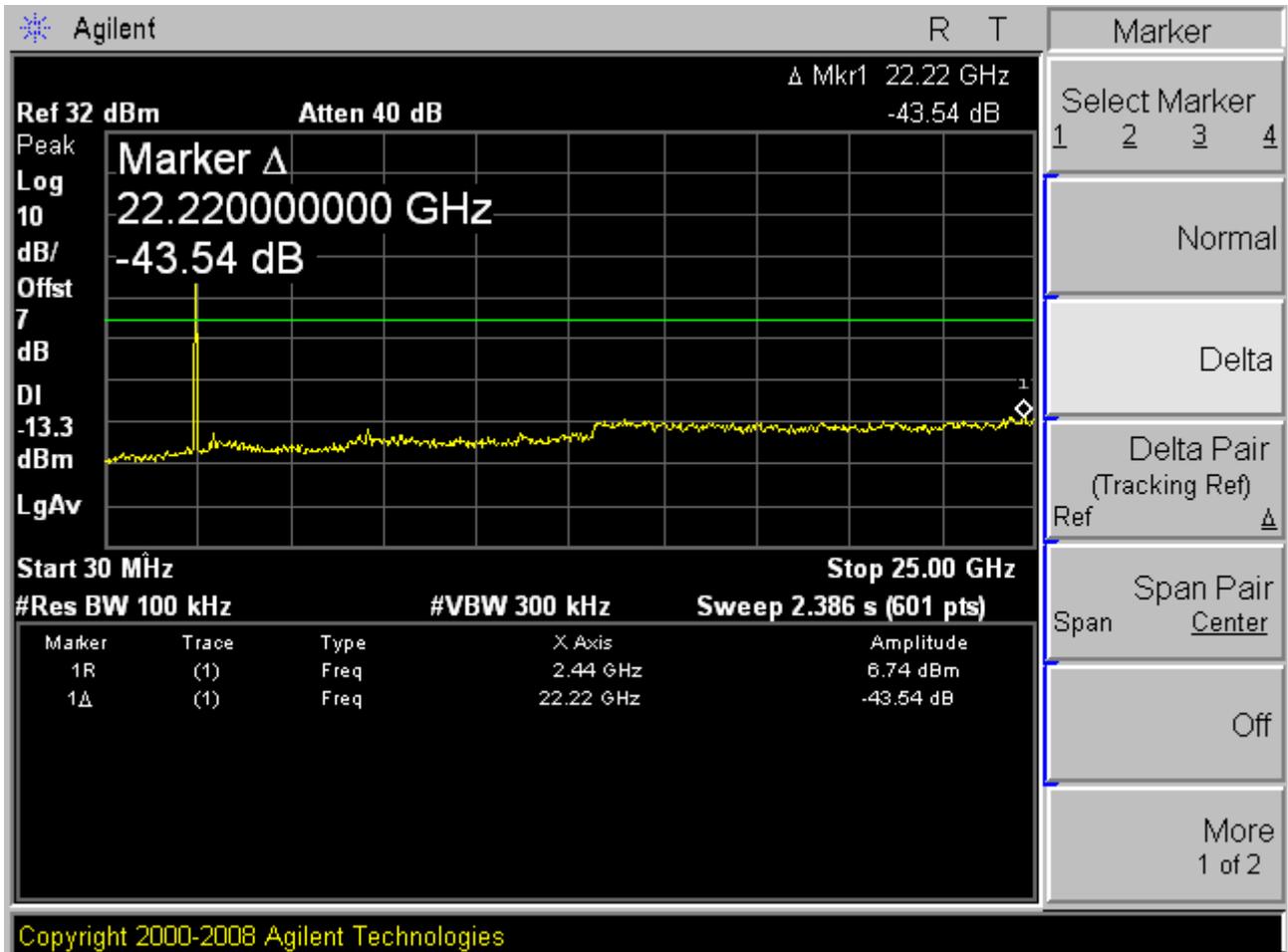




# Channel 40

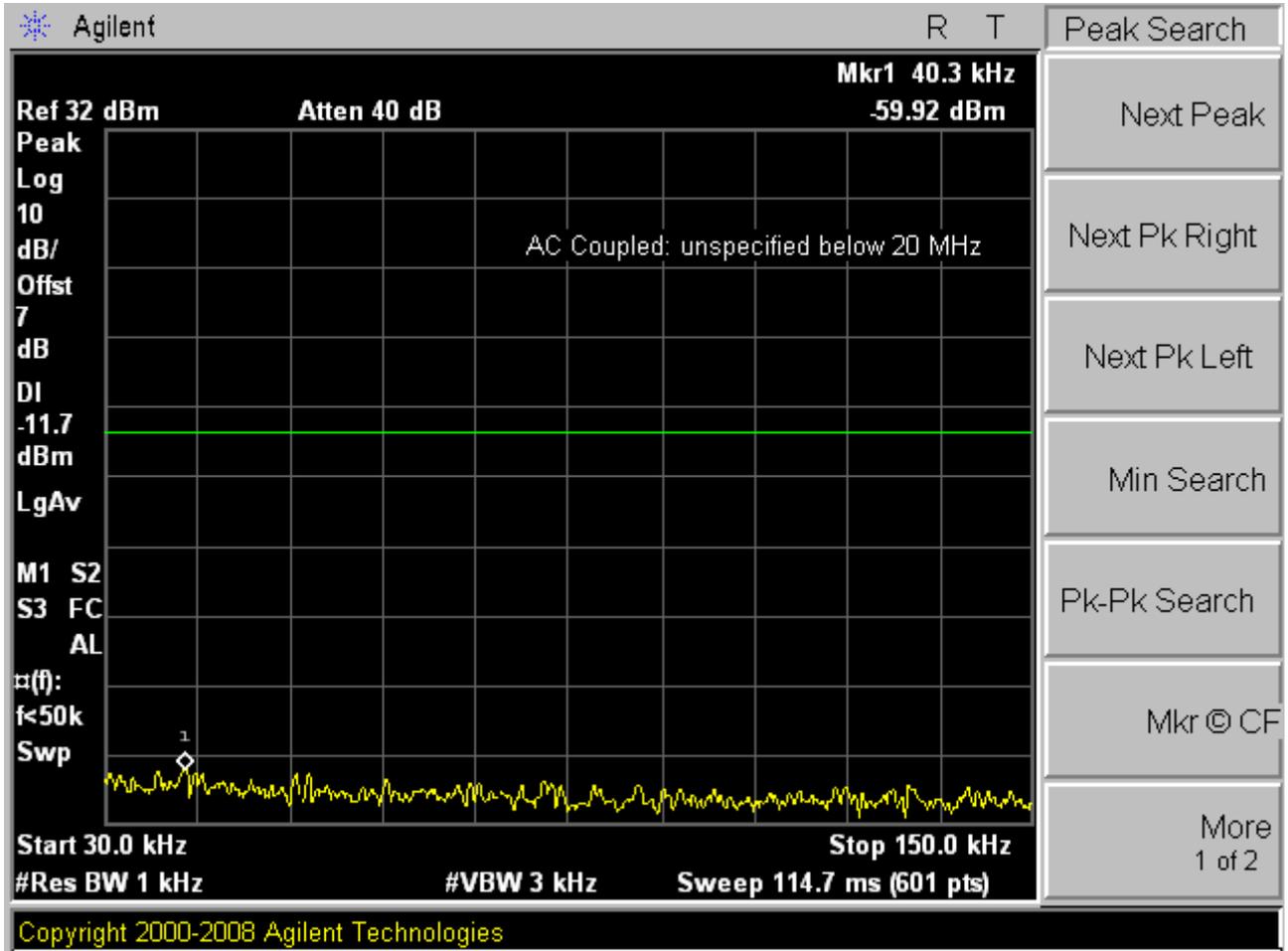


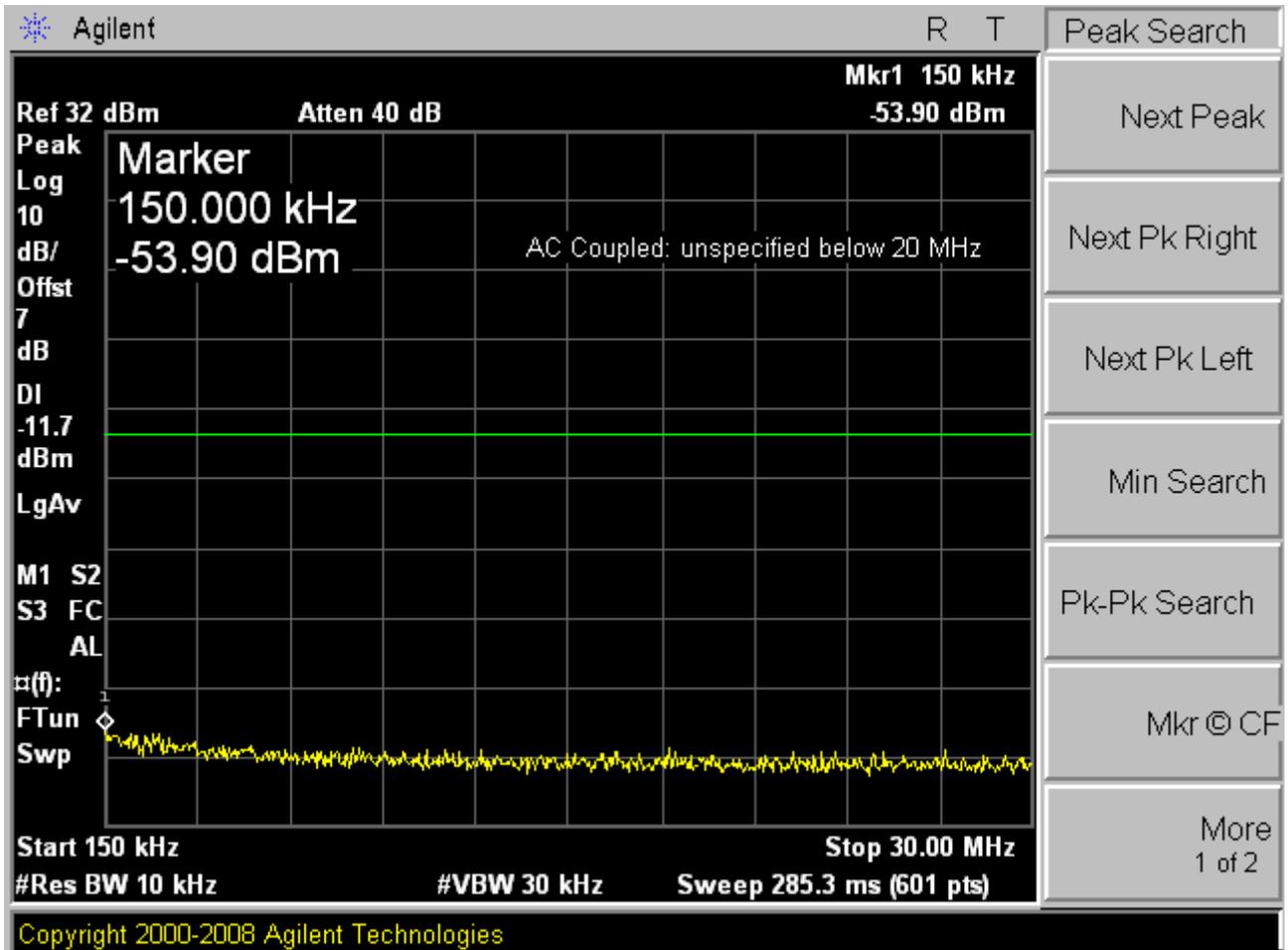


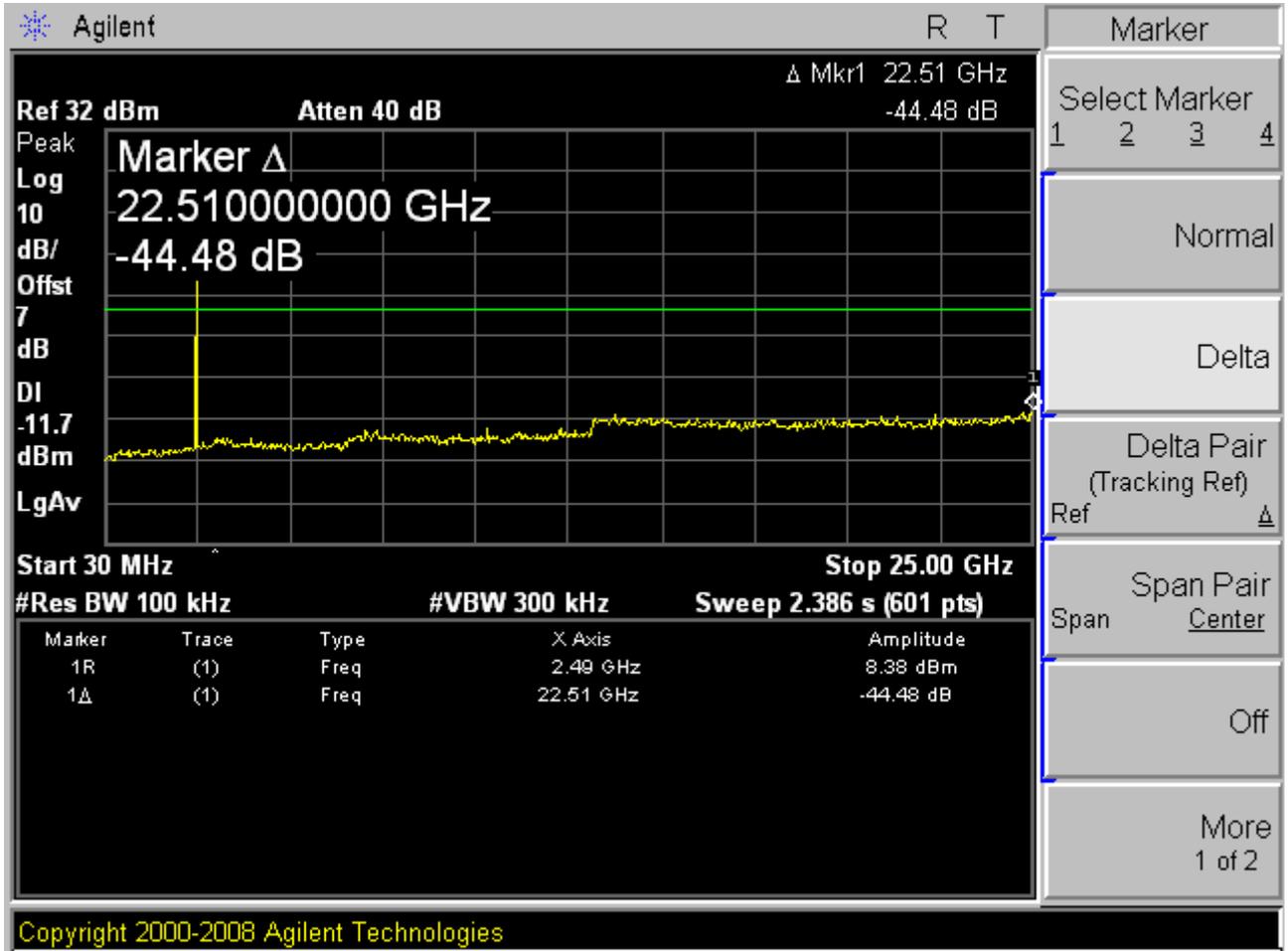




# Channel 78









# Appendix H

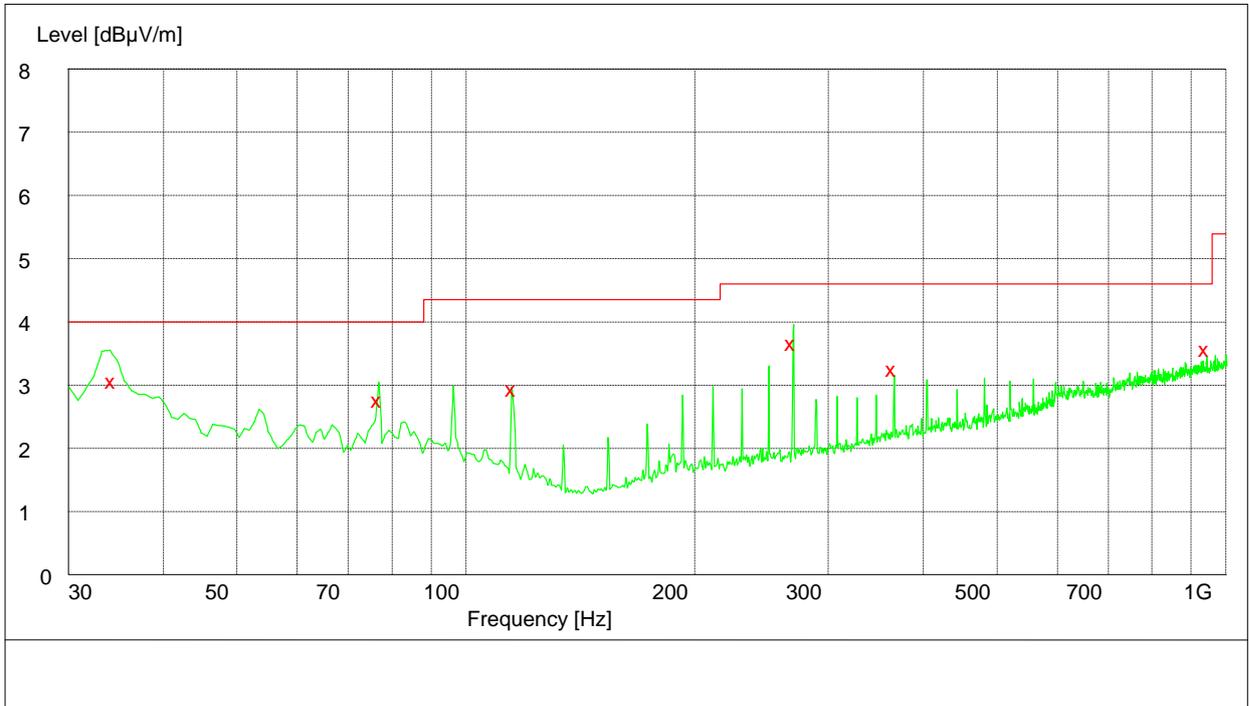
## Radiated spurious emission

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



# Channel 0

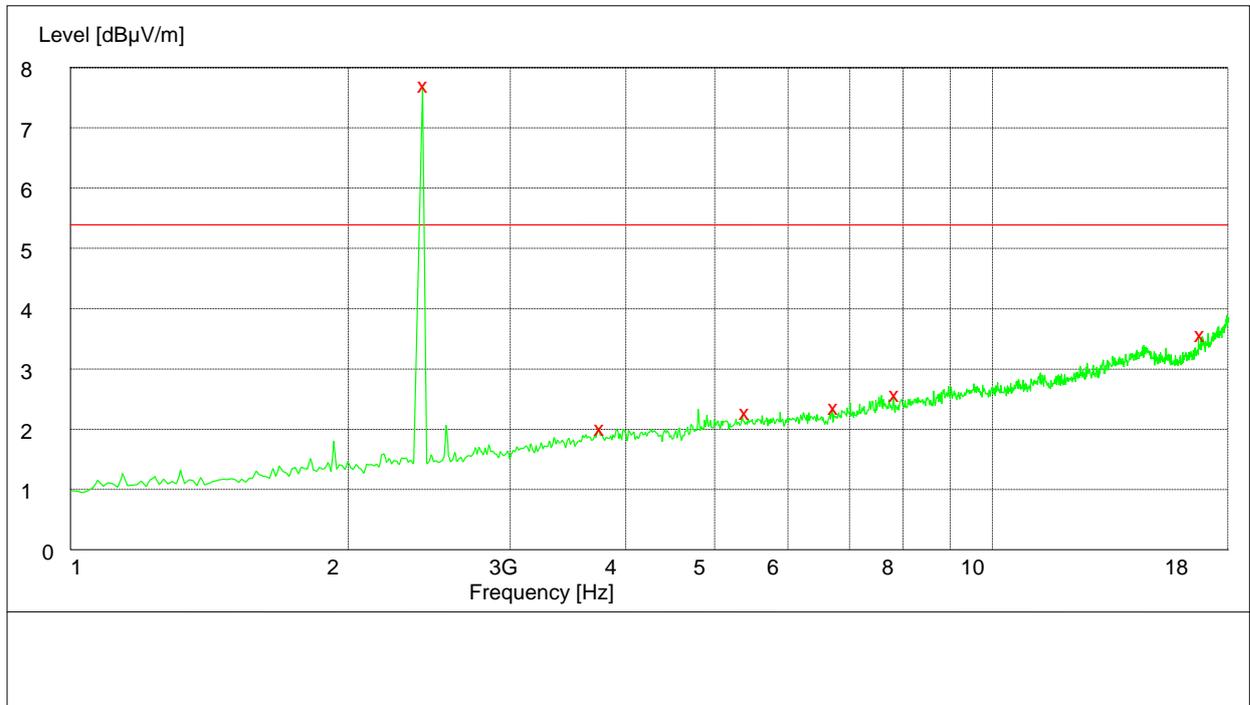
## 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Plarization
34.260000	30.80	11.7	40.0	9.2	100.0	0.00	VERTICAL
76.800000	27.90	7.9	40.0	12.1	236.0	274.00	VERTICAL
115.200000	29.50	11.4	43.5	14.0	100.0	218.00	VERTICAL
268.800000	36.90	14.5	46.0	9.1	100.0	221.00	HORIZONTAL
364.800000	32.70	17.4	46.0	13.3	100.0	1.00	HORIZONTAL
940.980000	35.80	26.5	46.0	10.2	182.0	74.00	HORIZONTAL



## 1GHz to 18GHz

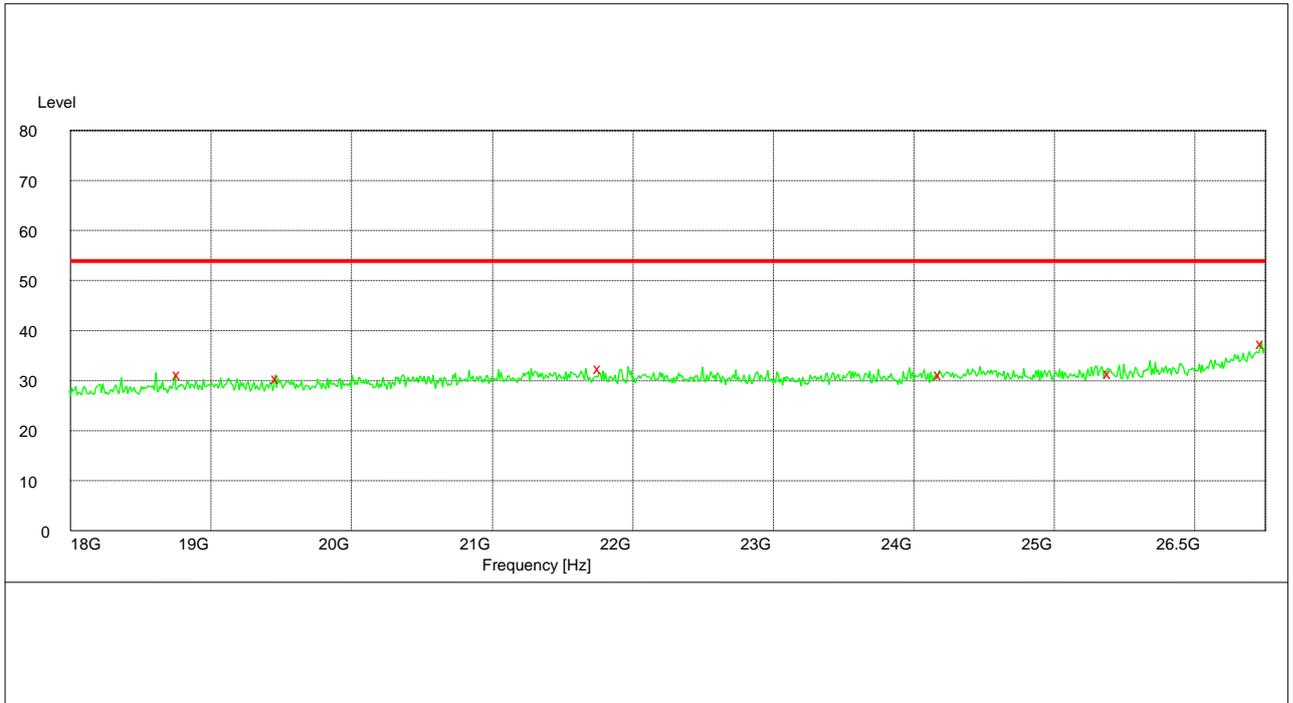


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2402.000000	78.20	-11.5	54.0	-24.2	108.0	176.00	HORIZONTAL
3732.000000	19.90	-6.6	54.0	34.1	109.0	38.00	VERTICAL
5342.500000	22.60	-2.6	54.0	31.4	150.0	92.00	HORIZONTAL
6679.000000	23.50	-0.7	54.0	30.5	138.0	131.00	HORIZONTAL
7792.500000	25.80	1.8	54.0	28.2	100.0	284.00	VERTICAL
16691.000000	36.10	12.3	54.0	17.9	102.0	50.00	HORIZONTAL



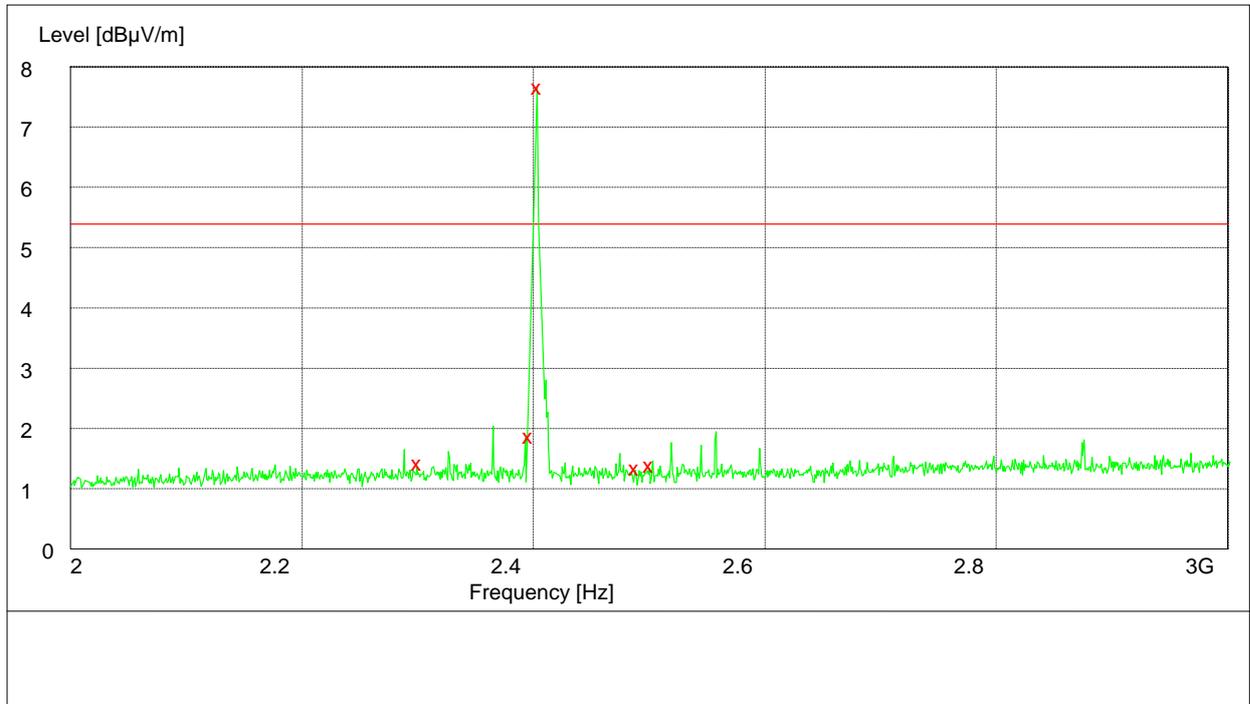
## 18GHz to 26GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
18776.000000	30.90	18.5	54.0	23.1	133.0	88.00	HORIZONTAL
19493.000000	30.00	18.9	54.0	24.0	183.0	142.00	HORIZONTAL
21785.000000	32.10	20.5	54.0	21.9	282.0	84.00	HORIZONTAL
24193.000000	30.80	21.5	54.0	23.2	243.0	62.00	VERTICAL
25287.000000	30.80	23.1	54.0	23.2	124.0	220.00	HORIZONTAL
26494.000000	38.20	27.9	54.0	15.8	113.0	87.00	HORIZONTAL



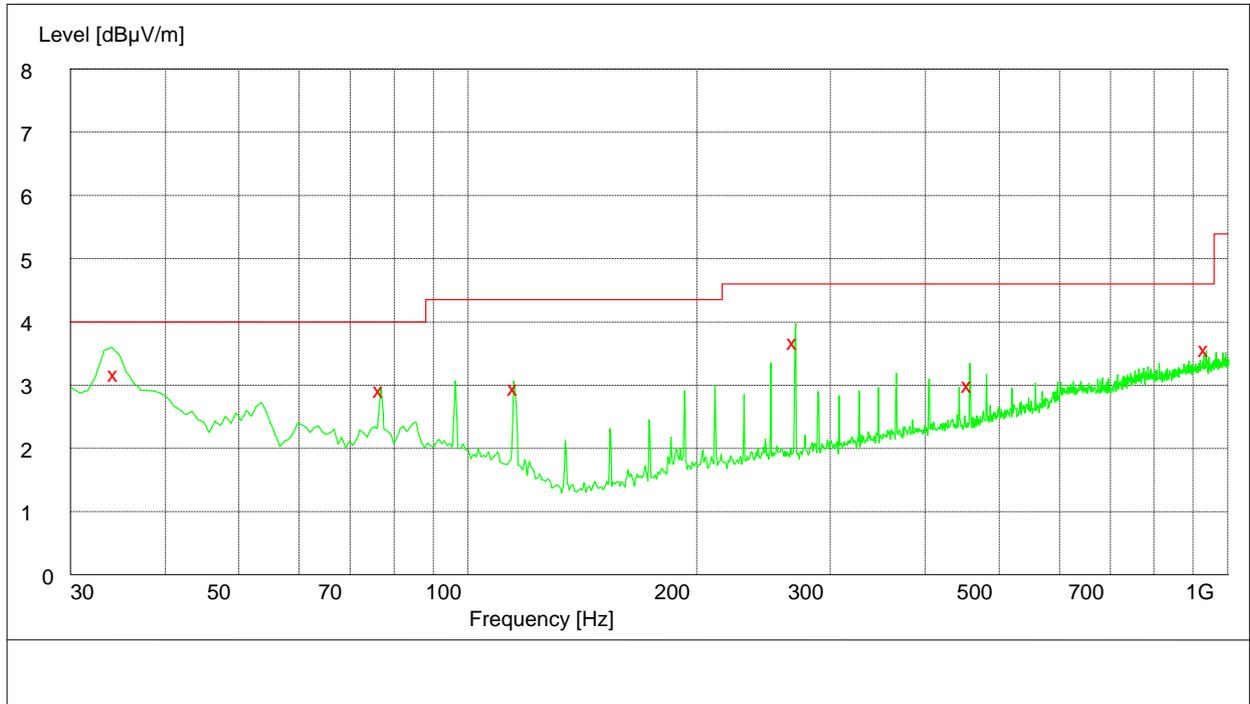
## 2GHz to 3GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	13.2	-11.9	54.0	40.8	100.0	237.00	VERTICAL
2390.000000	19.1	-11.6	54.0	34.9	101.0	102.00	HORIZONTAL
2402.000000	77.8	-11.5	54.0	-23.8	101.0	144.00	HORIZONTAL
2483.500000	12.7	-11.3	54.0	41.3	146.0	39.00	VERTICAL
2500.000000	13.2	-11.1	54.0	40.8	112.0	5.00	HORIZONTAL



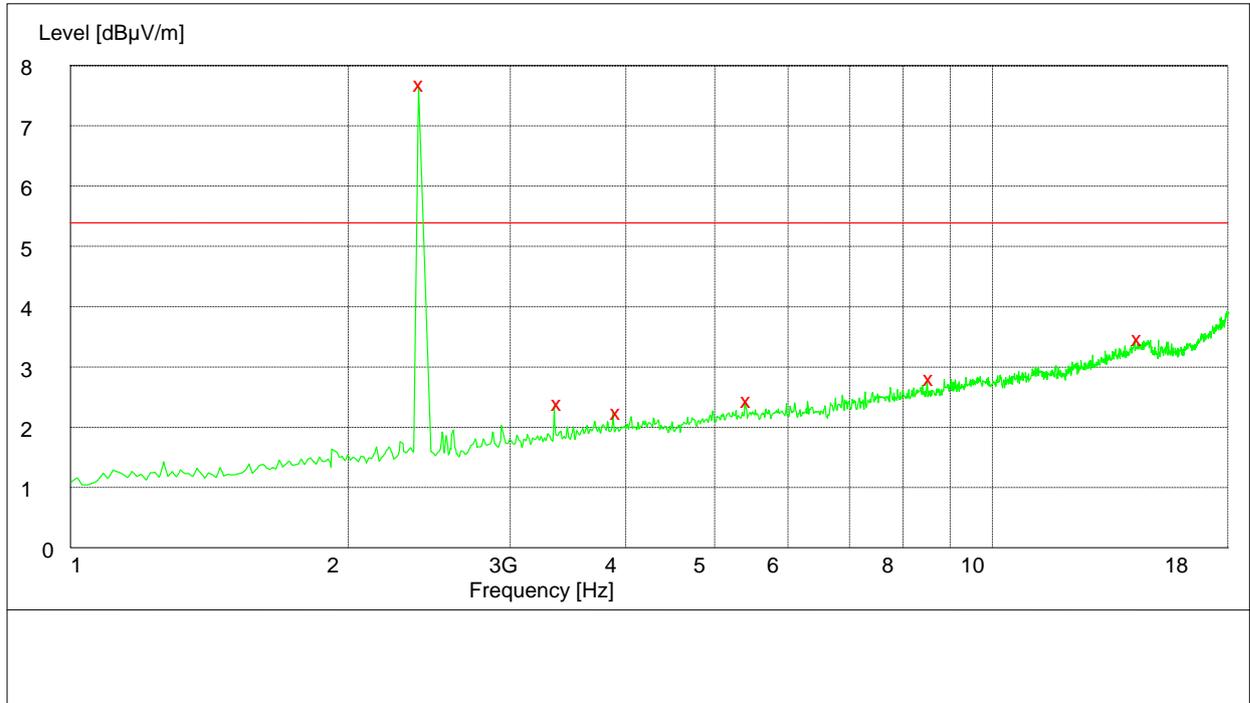
## Channel 40 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
34.380000	31.90	11.7	40.0	8.1	107.0	169.00	VERTICAL
76.800000	29.40	7.9	40.0	10.6	246.0	170.00	HORIZONTAL
115.200000	29.70	11.4	43.5	13.8	100.0	216.00	VERTICAL
268.800000	37.00	14.5	46.0	9.0	100.0	235.00	HORIZONTAL
455.940000	30.30	19.0	46.0	15.7	114.0	138.00	HORIZONTAL
934.500000	35.90	26.5	46.0	10.1	222.0	197.00	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
2442.000000	77.9	-11.4	54.0	-23.9	100.0	260.00	VERTICAL
3346.000000	23.7	-7.9	54.0	30.3	100.0	51.00	HORIZONTAL
3872.000000	22.3	-6.2	54.0	31.7	100.0	45.00	HORIZONTAL
5384.000000	24.0	-2.5	54.0	30.0	100.0	282.00	HORIZONTAL
8466.000000	28.4	3.0	54.0	25.6	148.0	265.00	VERTICAL
14229.000000	35.1	11.5	54.0	18.9	126.0	77.00	VERTICAL



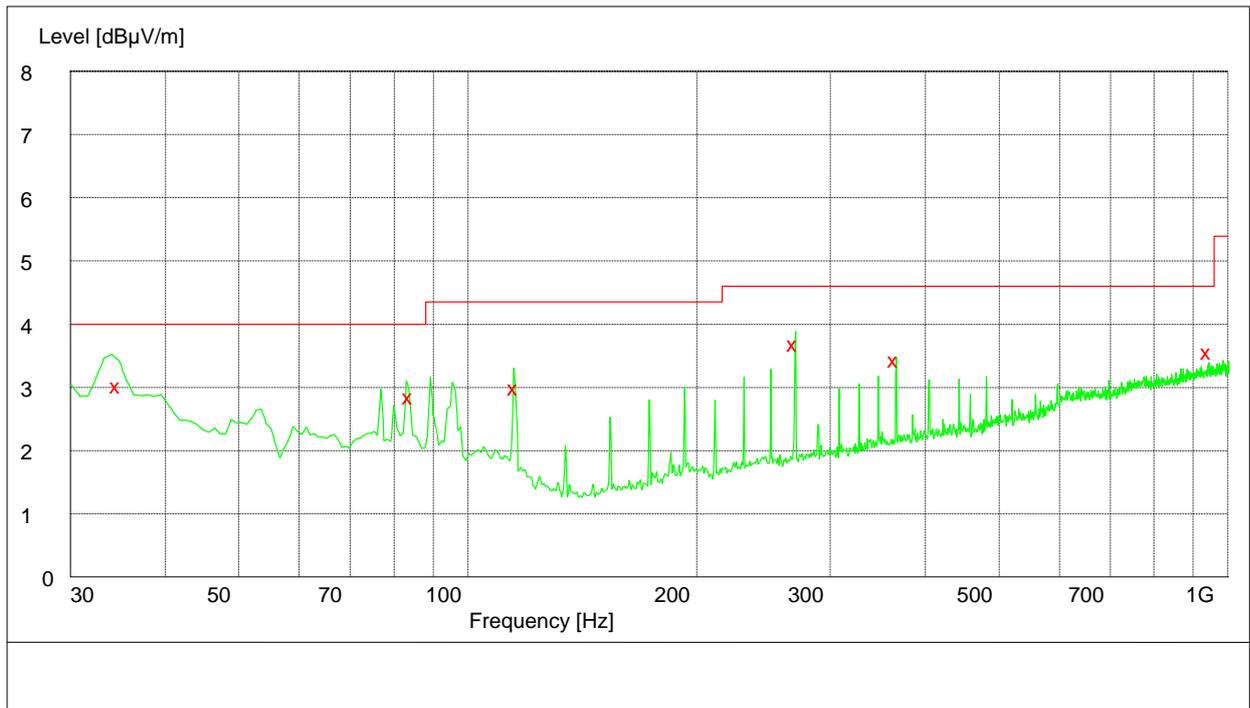
## 18GHz to 26GHz



Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Height cm	Azimuth deg	Polarization
19483.000000	30.50	18.9	54.0	23.5	271.0	214.00	VERTICAL
20481.000000	31.00	19.7	54.0	23.0	163.0	224.00	HORIZONTAL
21782.000000	31.20	20.5	54.0	22.8	262.0	319.00	VERTICAL
23532.000000	30.80	20.5	54.0	23.2	208.0	277.00	VERTICAL
24206.000000	30.50	21.5	54.0	23.5	156.0	49.00	HORIZONTAL
26498.000000	34.30	27.9	54.0	19.7	120.0	346.00	VERTICAL



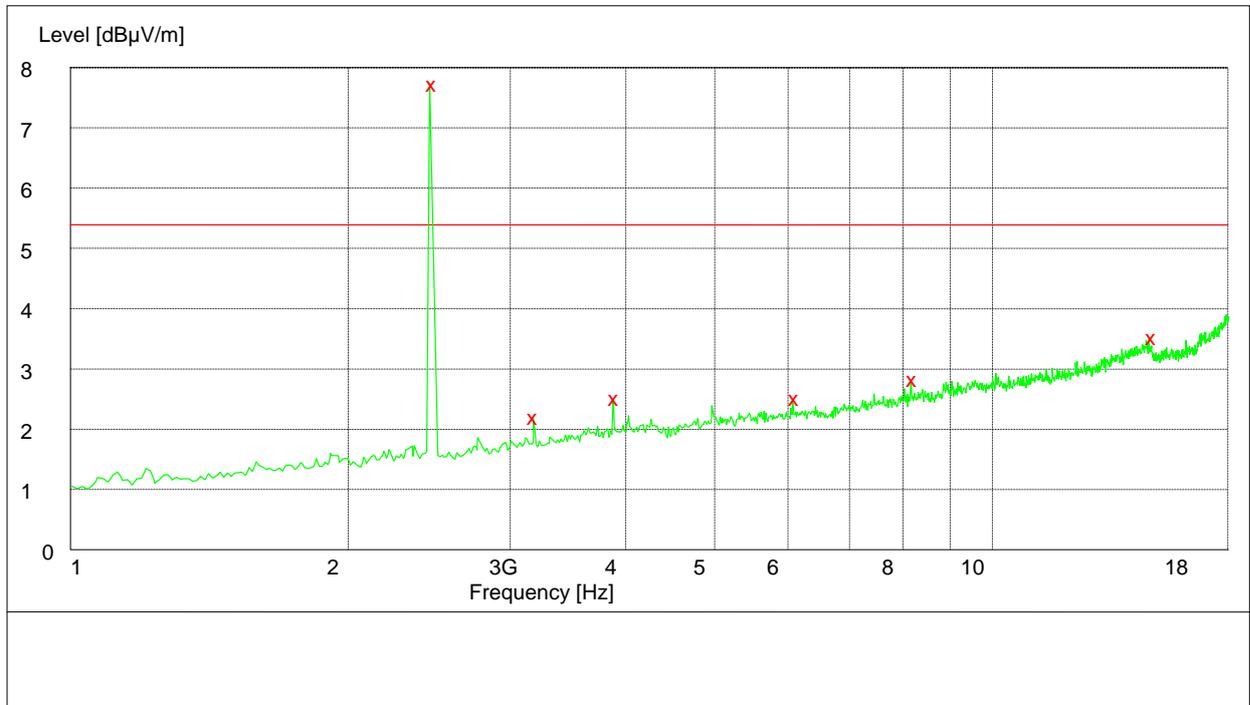
## Channel 78 30MHz to 1GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
34.560000	30.40	11.7	40.0	9.6	100.0	181.00	VERTICAL
83.580000	29.20	9.7	40.0	10.8	200.0	348.00	HORIZONTAL
115.200000	30.10	11.4	43.5	13.4	248.0	172.00	HORIZONTAL
268.800000	37.10	14.5	46.0	8.9	100.0	328.00	HORIZONTAL
364.800000	34.60	17.4	46.0	11.4	100.0	12.00	HORIZONTAL
942.060000	35.80	26.5	46.0	10.2	113.0	253.00	VERTICAL



## 1GHz to 18GHz

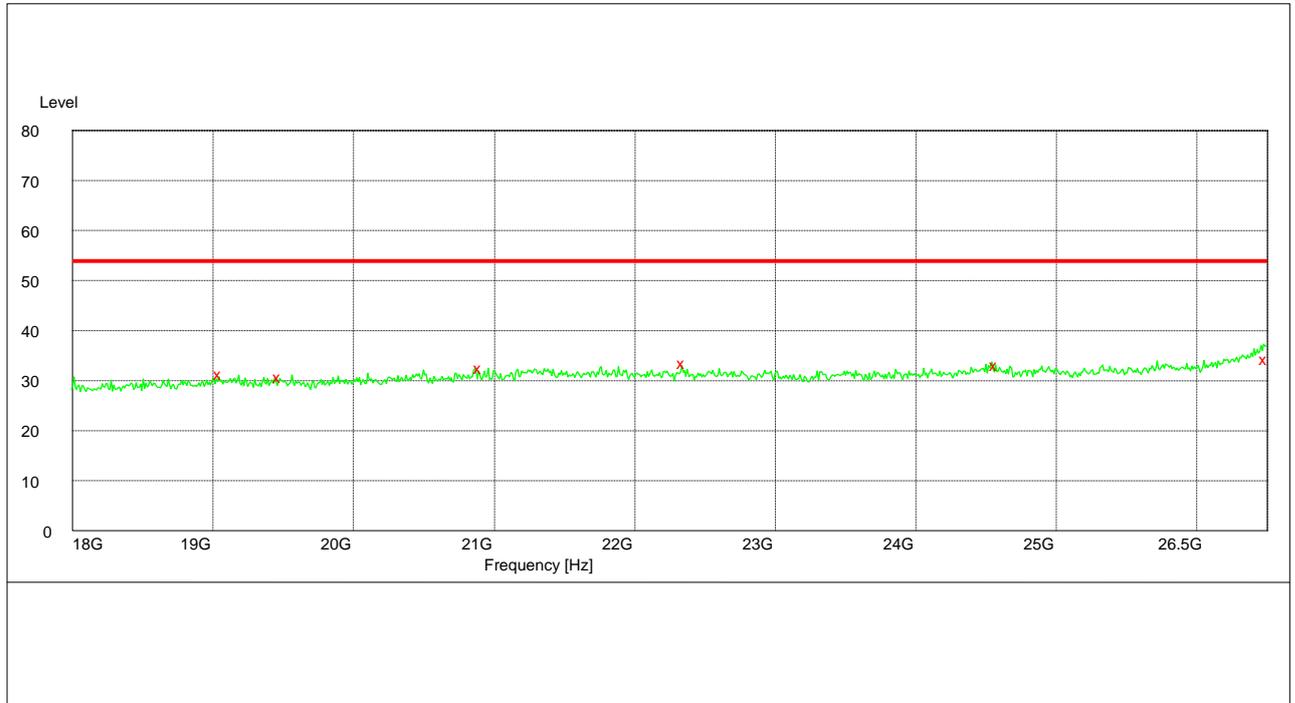


Note: The peak exceeds the limit line is carrier frequency.

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2480.000000	78.3	-11.3	54.0	-24.3	150.0	169.00	HORIZONTAL
3183.000000	22.1	-8.3	54.0	31.9	100.0	170.00	VERTICAL
3868.000000	25.2	-6.2	54.0	28.8	104.0	26.00	HORIZONTAL
6055.000000	25.4	-1.5	54.0	28.6	149.0	52.00	HORIZONTAL
8141.000000	28.5	2.4	54.0	25.5	100.0	47.00	HORIZONTAL
14750.500000	35.2	11.5	54.0	18.8	100.0	20.00	VERTICAL



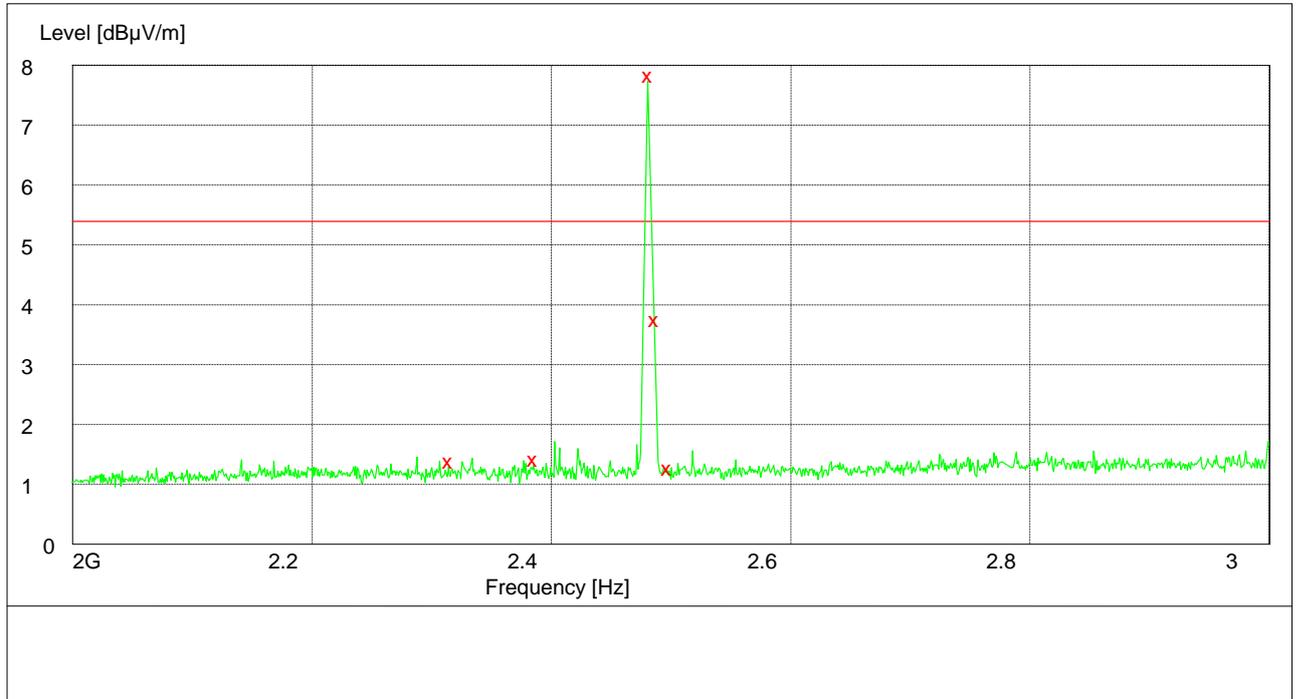
## 18GHz to 26GHz



Frequency MHz	Level dB $\mu$ V/m	Transd dB	Limit dB $\mu$ V/m	Margin dB	Height cm	Azimuth deg	Polarization
19003.500000	31.30	18.6	54.0	22.7	137.0	297.00	VERTICAL
19487.000000	30.10	18.9	54.0	23.9	217.0	235.00	VERTICAL
20895.000000	32.10	20.2	54.0	21.9	141.0	266.00	VERTICAL
22460.000000	33.20	20.3	54.0	20.8	234.0	294.00	VERTICAL
24583.000000	32.40	22.0	54.0	21.6	150.0	227.00	HORIZONTAL
26496.000000	34.20	27.9	54.0	19.8	192.0	338.00	HORIZONTAL



## 2GHz to 3GHz



Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarization
2310.000000	13.0	-11.9	54.0	41.0	120.0	309.00	VERTICAL
2390.000000	13.4	-11.6	54.0	40.6	100.0	25.00	VERTICAL
2480.000000	78.2	-11.3	54.0	-24.2	123.0	30.00	VERTICAL
2483.500000	37.3	-11.3	54.0	16.7	100.0	313.00	HORIZONTAL
2500.000000	12.6	-11.1	54.0	41.4	106.0	287.00	HORIZONTAL



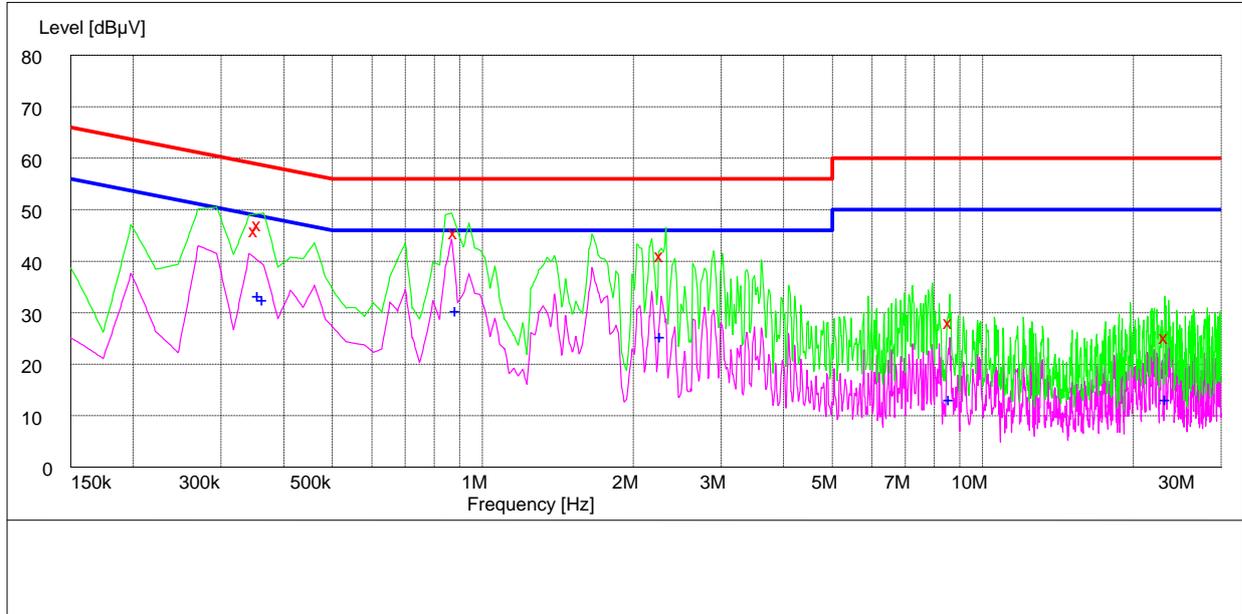
# Appendix I

## 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
0.352500	46.30	10.0	59	12.7	N	FLO
0.357000	47.50	10.0	59	11.5	N	FLO
0.883500	46.10	10.1	56	9.9	N	FLO
2.278500	41.60	10.1	56	14.4	N	FLO
8.619000	28.60	10.2	60	31.4	N	FLO
23.253000	25.60	10.4	60	34.4	N	FLO

### MEASUREMENT RESULT: AV Detector

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.357000	33.80	10.0	49	15.2	N	FLO
0.366000	32.90	10.0	49	16.1	N	FLO
0.888000	30.80	10.1	46	15.2	N	FLO
2.283000	25.80	10.1	46	20.2	N	FLO
8.619000	13.60	10.2	50	36.4	L3	FLO
23.329500	13.60	10.4	50	36.4	L3	FLO

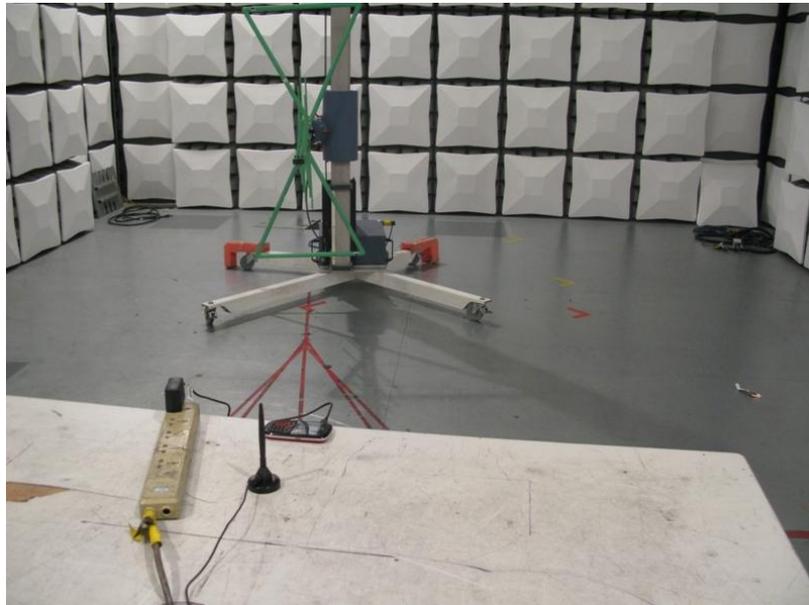


# Appendix J

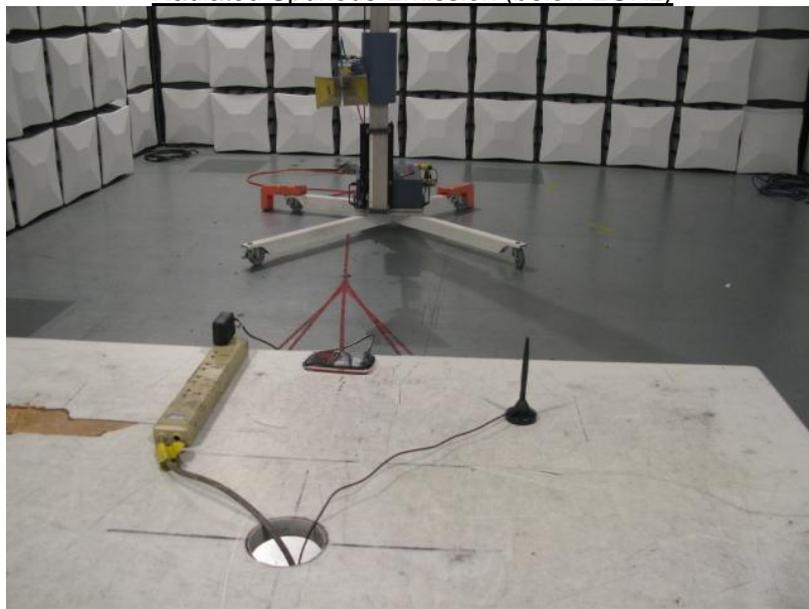
## Photos of Test Setup



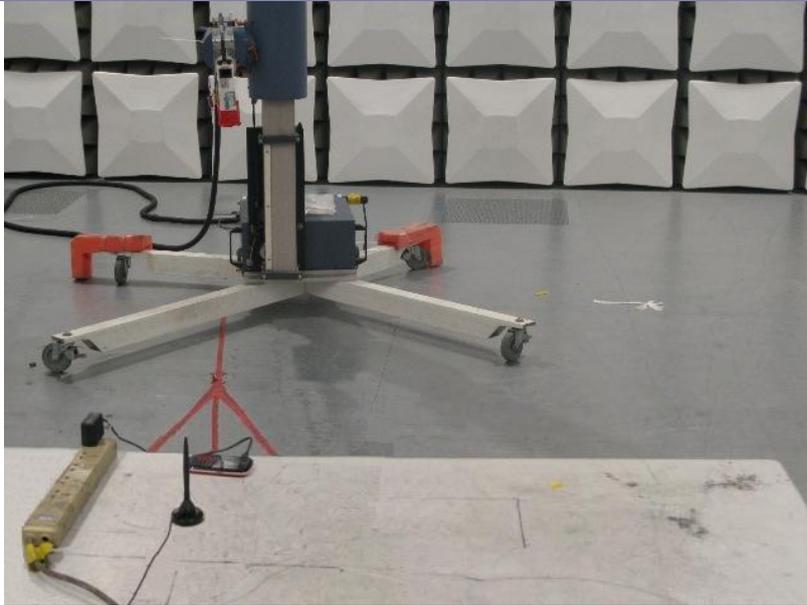
# 1 Radiated Spurious Emissions



Radiated Spurious Emission (below 2GHz)



Radiated Spurious Emission (2GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

## **2 Conducted Emissions**



Conducted Emissions for AC Ports